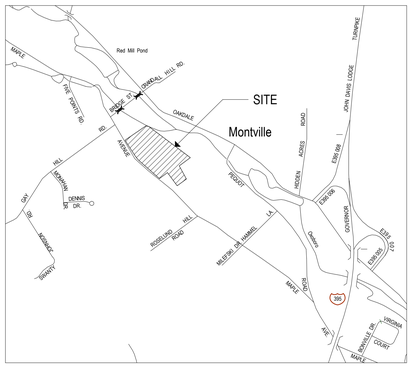
PROJECT TITLE:

New Animal Facility at:

Montville Animal Shelter

225 Maple Ave. Parcel ID: 077-041-000
Montville, CT

TOWN OF MONTVILLE



LOCUS MAP SCALE: 1" = 1000'

ARCHITECT
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BID SET
Issued for Bid: October 25, 2023

09/29/2023

ABBREVIATIONS

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

SYMBOL LEGEND

- 101 / A — DOOR NUMBER
- ? / 4 — WINDOW TYPE
- ? — ROOM NAME / ROOM NUMBER
- ? — PARTITION TYPE
- CONSTRUCTION NOTE
- X — GLAZING TYPE
- 2 / A101 — EXTERIOR ELEVATION NUMBER / SHEET NUMBER
- 2 / A101 — INTERIOR ELEVATION NUMBER / SHEET NUMBER
- 2 / A101 — BUILDING SECTION NUMBER / SHEET NUMBER
- 2 / A101 — WALL SECTION NUMBER / SHEET NUMBER
- REFERENCE POINT
- 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

- NEW SINGLE DOOR
- NEW DOUBLE DOOR
- EXISTING DOOR TO REMAIN
- REMOVE EXISTING DOOR

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS PRIOR TO FABRICATION, FURNISHING AND INSTALLATION OF ANY MATERIALS, EQUIPMENT AND WORK.
2. ALL MATERIALS & EQUIPMENT SHOWN ARE NEW TO BE PROVIDED BY CONTRACTOR UNLESS OTHERWISE NOTED.
3. ALL EXISTING UTILITIES & EQUIPMENT LOCATIONS ARE APPROXIMATE - CONTRACTOR SHALL FIELD VERIFY AND/OR COORDINATE EXACT LOCATIONS.
4. CONTRACTOR ASSUMES ALL RESPONSIBILITY DURING CONSTRUCTION TO PROTECT MATERIALS AND EQUIPMENT. ANY & ALL DAMAGED ITEMS & EQUIPMENT DURING CONSTRUCTION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
5. ALL RATED DOORS & DOORS FRONTING A CORRIDOR SHALL HAVE POSITIVE LATCHING LOCKSETS UNLESS OTHERWISE INDICATED ON THE DOOR SCHEDULE.
6. ALL DOORS LEADING TO HAZARDOUS AREAS SHALL HAVE TACTILE WARNING.
7. ALL DOORS EXITING 100 PERSONS OR MORE SHALL HAVE PANIC EXIT DEVICES.
8. ALL HANDICAP ACCESSIBLE DOOR HARDWARE SHALL BE PROVIDED TO COMPLY WITH ADA, ANSI AND ALL OTHER APPLICABLE CODES.
9. ALL NEW EXPOSED/VISIBLE DECKING, BEAMS, COLUMNS, JOISTS AND OTHER STRUCTURAL COMPONENTS SHALL BE PAINTED UNLESS OTHERWISE NOTED.
10. IF A NOTE IS FOUND ON ARCHITECTURAL DRAWINGS READING - "SEE STRUCTURAL DRAWINGS" - AND SIZE AND DETAILING OF MEMBER(S) IS NOT FOUND, THE CONTRACTOR SHALL CONTACT THE ARCHITECT TO REQUEST MISSING INFORMATION. THESE ITEMS SHALL BE PART OF THE BASE BID AND STEEL SUBCONTRACTOR SHALL REVIEW STRUCTURAL AS WELL AS ARCHITECTURAL DRAWINGS PRIOR TO BIDDING.
11. ALL CONTRACTORS SHALL REVIEW DRAWINGS AND PROJECT MANUAL. IF THERE IS A DISCREPANCY BETWEEN THE TWO OR ANY OTHER PARTS OF THE DOCUMENTS, THE HIGHER VALUE (IN DOLLARS) SHALL PREVAIL AS THE SCOPE OF WORK THAT WILL BE PRICED UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT DURING THE BIDDING PERIOD.

LIST OF DRAWINGS

VOLUME 1

Project Title:

New Animal Facility at:
Montville Animal Shelter
225 Maple Ave.
Montville, CT

SILVER PETRUCELLI + ASSOCIATES

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

Revision: | Description: | Date: | Revised By:

Drawing Title: DRAWING LIST

Date: 09/29/2023
Scale: 12" = 1'-0"
Drawn By: MES
Project Number: 22.130

Drawing Number: G000

CODE LEGEND

AREA IN SF 840 | OCC. LOAD FACTOR 20 | 42 ROOM OCCUPANCY LOAD

ACTUAL EGRESS OCC. OF DOOR 42
MAX. ALLOWABLE EGRESS OCC. OF DOOR 168 EXIT CAPACITY

C216 ROOM NUMBER

1227' DIRECTION OF TRAVEL W/ ACCUMULATED OCC. LOAD ●

TD 145' MAXIMUM TRAVEL DISTANCE FROM FURTHEST POINT

198' COMMON PATH OF TRAVEL

1 HOUR FIRE RATED WALL AND SMOKE BARRIER

2 HOUR FIRE WALL

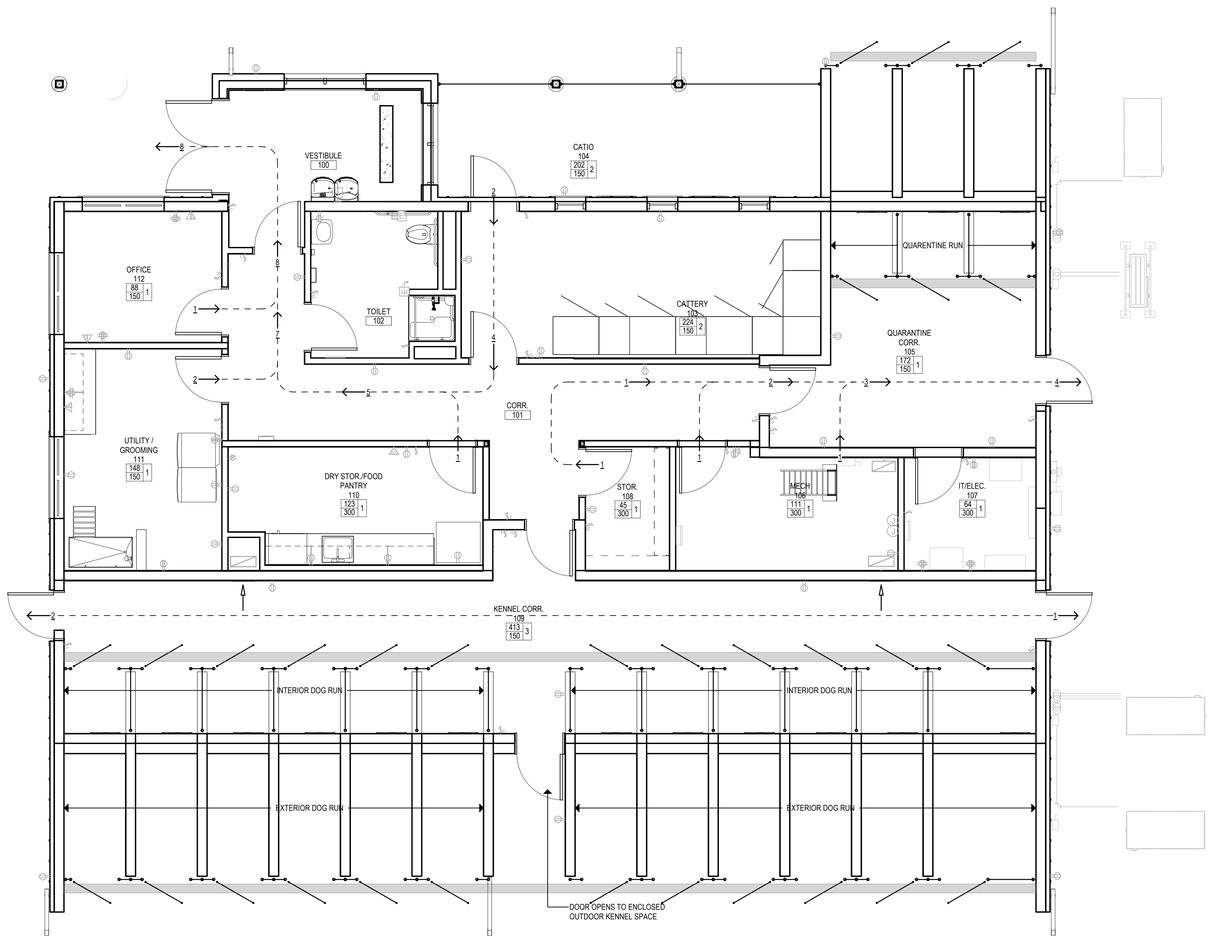
2 HOUR FIRE RATED WALL AND SMOKE BARRIER

LOT LINE

DENOTES ACCESSIBLE THRESHOLD 1/2" MAX STEP W/BEVELED THRESHOLD OR 1/2" STEP W/OUT BEVELED THRESHOLD

60.66' - DIMENSION OF OPEN PERIMETER ALONG ENTIRE LONGITUDINAL FACE

(60.66') - DIMENSION OF NON-OPEN PERIMETER ALONG ENTIRE LONGITUDINAL FACE



1 MAIN LEVEL CODE PLAN
1/4" = 1'-0"

CODE INFORMATION

DATE OF CONSTRUCTION: 2023

1. GROUP CLASSIFICATION (Chapter 3)
   (Primary): B (BUSINESS)
2. CONSTRUCTION TYPE (Chapter 6)
   Minimum Type Required: 5B
3. BUILDING HEIGHT (Chapter 5)
   Allowable Height (story/feet): 2/40'-0"
   Actual Height (story/feet): 1/25'-7"
   (Stories Above Grade): 1
4. BUILDING AREA (Chapter 5)
   1) Building Area (Grade Level)
   Building Floor Area (Net): 2,260 sq.ft.
5. AREA MODIFICATIONS TO TABLE 506.2

	N	E	W	S
Total Perimeter =	51.33 ft.	64.67 ft.	64.67 ft.	51.33 ft.
Open Perimeter =	51.33 ft.	64.67 ft.	0 ft.	51.33 ft.

Total Frontage (F) 167.33 ft. Perimeter (P) 232 ft.
(building perimeter which fronts on a public way or open space having 20 feet open min.)

Width of open space (W) = >30'

If=100[F/P-0.25]W/30
100[167.33 / 232 - 0.25] 30/30= 47

BUSINESS:

Aa = At + (NS x If)

At = 9,000
NS = 9,000

Aa = 9,000 + (9,000 x .47)

Aa = 13,230 sq. ft. (Max allowable area)

6. CASE 1 - NONSEPARATED OCCUPANCIES (508.3)
   (NOT USED)
7. CASE 2 - SEPARATED OCCUPANCIES (508.4)
   B ACTUAL FLOOR AREA 2,260 sq. ft./
   B ALLOWABLE FLOOR AREA 13,230 sq. ft.
   = 0.171

   0.171 < 1.00
8. FIRE-RESISTANCE RATED REQUIREMENTS FOR BUILDING ELEMENTS
   (Table 601, See Code Plans for specific designations)

1	Structural frame: including columns, girders, trusses	0 Hr(s)
2	Bearing walls: Exterior (Table 602)	0 Hr(s)
	Interior	0 Hr(s)
3	Nonbearing walls & partitions Exterior (Table 602)	0 Hr(s)
4	Nonbearing walls & partitions Interior	0 Hr(s)
5	Floor Construction (including supporting beams & joists)	0 Hr(s)
6	Roof Construction (including supporting beams & joists)	0 Hr(s)

9. OCCUPANCY LOAD
   Design Total for the Building: 322
   Total Exit Capacity for the Building: 3,528
10. MODIFICATIONS

	Approved	Not Approved
M-XXX-XXX /(IBC 506.2) (Allowable Area Increase)	XX-XX-XX	
N/A		
N/A		

11. ACCESSIBLE BUILDING: X Designated; Non Designated
12. MINIMUM PLUMBING FIXTURE COUNT (I.P.C. Chapter 4)
    For each type of occupancy per entire facility

    EDUCATIONAL (E) Group occupancy:

    TOTAL Occupancy Load (Use E) : (Design Load = 15)

	Required
W/C	0.60
Lavs	0.36
D/F	0
Service Sink	0

    TOTAL REQUIRED AND PROVIDED QUANTITY OF PLUMBING FIXTURES:
    Use of unisex toilets and lavs within classrooms towards male and female count as approved by modification request no. M-xxx

	Required	Provided
W/C	0.60 (1)	1
Lavs	0.38 (1)	1
D/F	1	2
Service Sink	0	0

    -Service sinks are not required as per IBC 2902.1 note E
    -Separate facilies are note required as per IBC 2902.2 exception #4

13. ENTIRE BUILDING SPRINKLERED: Yes | No X
14. THRESHOLD BUILDING CONDITIONS: Yes | No X
15. CODES TO WHICH THIS PROJECT WAS DESIGNED

State Building Code w/ CT Amendments	2021 IBC / 2022 CT
State Existing Building Code w/ CT Amendments	2021 IEBC / 2022 CT
State Fire Code w/ CT Amendments	2021 IFC / 2022 CT
State Building Code w/ CT Amendments	2021 IBC / 2022 CT
State Mechanical Code w/ CT Amendments	2021 IMC / 2022 CT
State Plumbing Code w/ CT Amendments	2021 IPC / 2022 CT
State Energy Conservation Code w/ CT Amendments	2021 IECC / 2022 CT
State Electrical Code w/ CT Amendments	2017 NFPA 70/2018 CT Amend.
State Health Code	most current
OSHA	most current
Section 504	current
ADA	2010 ADA
ANSI 117.1	2009 ICC A117.1

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New Animal Facility at:
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225 Maple Ave.
Montville, CT

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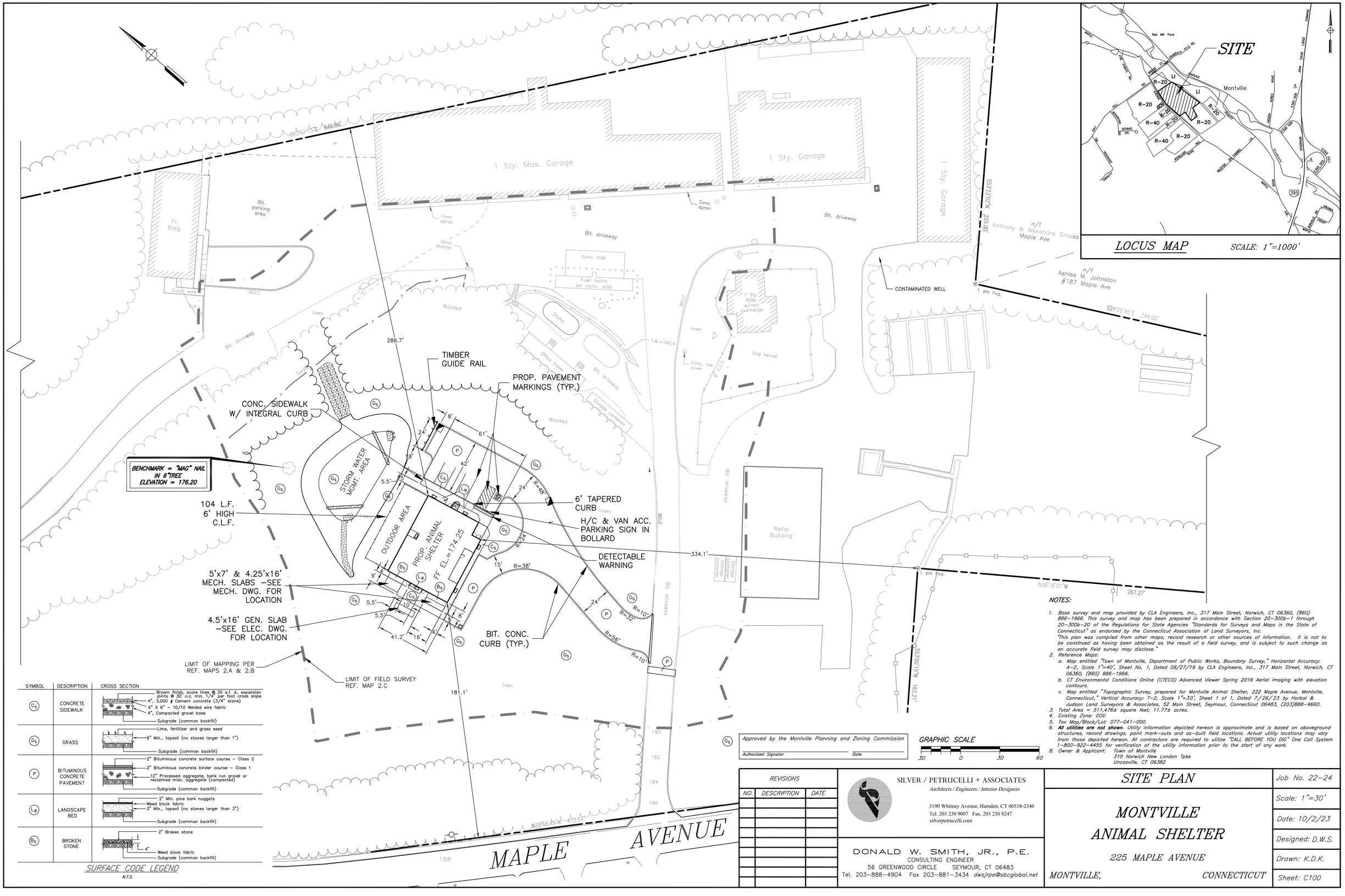
Revision: | Description: | Date: | Revised By:

Drawing Title:
BUILDING CODE PLANS & INFORMATION

Date: 09/29/2023
Scale: As indicated
Drawn By: MES
Project Number: 22.130

Drawing Number: G001



SYMBOL	DESCRIPTION	CROSS SECTION
C_S	CONCRETE SIDEWALK	Broom finish, score lines @ 30 s.f. ±, expansion joints @ 30' o.c. min. 1/4" per foot cross slope; 4", 3,000 # Cement concrete (3/4" stone); 6" X 6" – 10/10 Welded wire fabric; 4", Compacted gravel base; Subgrade (common backfill)
G_S	GRASS	Lime, fertilizer and grass seed; 6" Min., topsoil (no stones larger than 1"); Subgrade (common backfill)
P	BITUMINOUS CONCRETE PAVEMENT	2" Bituminous concrete surface course – Class 2; 2" Bituminous concrete binder course – Class 1; 12" Processed aggregate, bank run gravel or reclaimed misc. aggregate (compacted); Subgrade (common backfill)
L_B	LANDSCAPE BED	2" Min. pine bark nuggets; Weed block fabric; 3" Min., topsoil (no stones larger than 3"); Subgrade (common backfill)
B_S	BROKEN STONE	2" Broken stone; 4"; Weed block fabric; Subgrade (common backfill)

SURFACE CODE LEGEND
N.T.S.

NOTES:

1. *Base survey and map provided by CLA Engineers, Inc., 317 Main Street, Norwich, CT 06360, (860) 886–1966. This survey and map has been prepared in accordance with Section 20–300b–1 through 20–300b–20 of the Regulations for State Agencies "Standards for Surveys and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc. "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."*
2. *Reference Maps:*
   a. *Map entitled "Town of Montville, Department of Public Works, Boundary Survey," Horizontal Accuracy: A–2, Scale 1"=40', Sheet No. 1, Dated 09/27/19 by CLA Engineers, Inc., 317 Main Street, Norwich, CT 06360, (860) 886–1966.*
   b. *CT Environmental Conditions Online (CTECO) Advanced Viewer Spring 2016 Aerial Imaging with elevation contours.*
   c. *Map entitled "Topographic Survey, prepared for Montville Animal Shelter, 222 Maple Avenue, Montville, Connecticut," Vertical Accuracy: T–2, Scale 1"=30', Sheet 1 of 1, Dated 7/26/23 by Horbal & Judson Land Surveyors & Associates, 52 Main Street, Seymour, Connecticut 06483, (203)888–9660.*
3. *Total Area = 511,476± square feet; 11.77± acres.*
4. *Existing Zone: GOV.*
5. *Tax Map/Block/Lot: 077–041–000.*
6. ***All utilities are not shown.** Utility information depicted hereon is approximate and is based on aboveground structures, record drawings, paint mark–outs and as–built field locations. Actual utility locations may vary from those depicted hereon. All contractors are required to utilize "CALL BEFORE YOU DIG" One Call System 1–800–922–4455 for verification of the utility information prior to the start of any work.*
8. *Owner & Applicant: Town of Montville*
   310 Norwich New London Tpke
   Uncasville, CT 06382

REVISIONS		
NO.	DESCRIPTION	DATE

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
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Tel. 203–888–4904 Fax 203–881–3434 *dwsjrpe@sbcglobal.net*

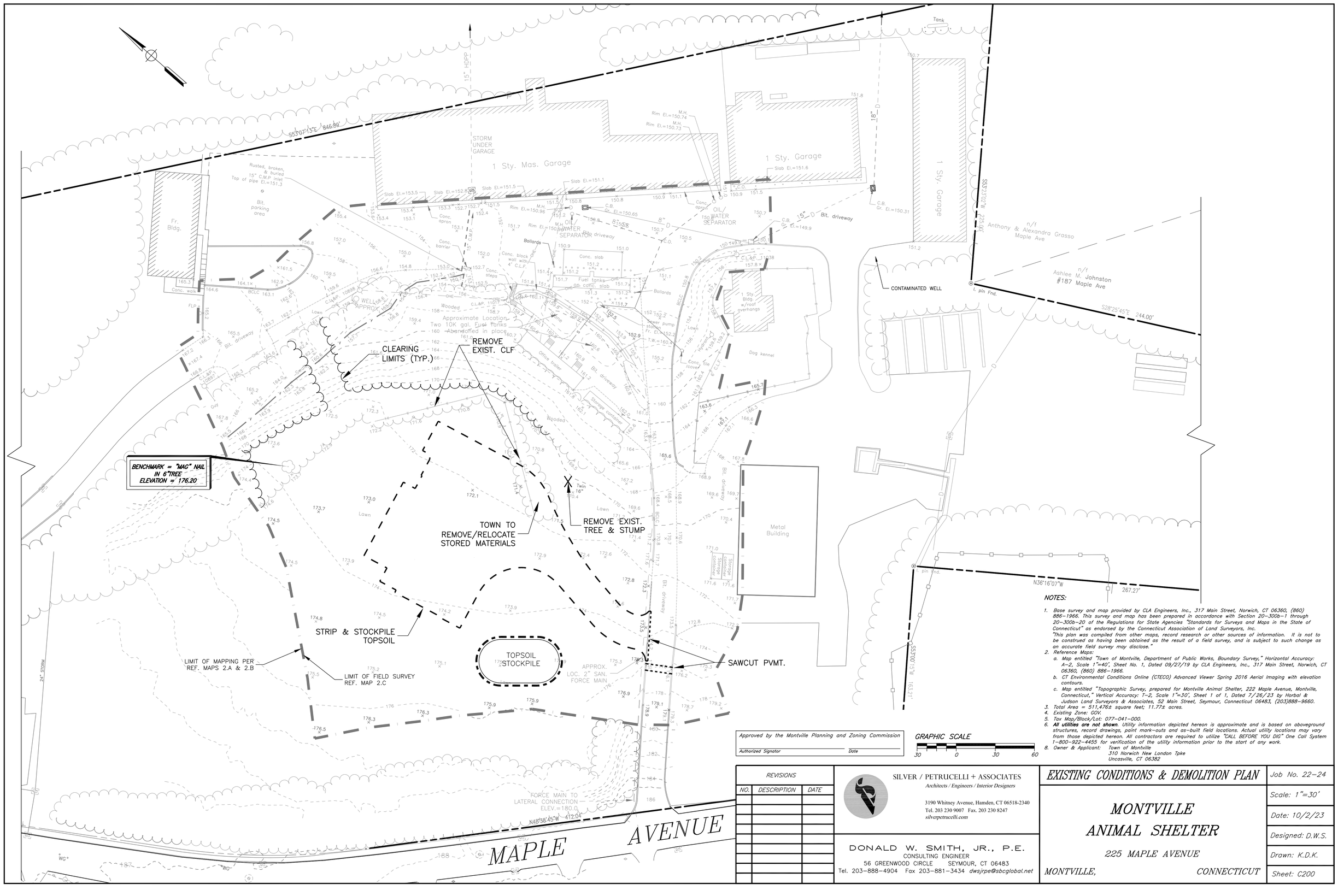
SITE PLAN

MONTVILLE ANIMAL SHELTER

225 MAPLE AVENUE

MONTVILLE, CONNECTICUT

Job No. 22–24
Scale: 1"=30'
Date: 10/2/23
Designed: D.W.S.
Drawn: K.D.K.
Sheet: C100



Approved by the Montville Planning and Zoning Commission

Authorized Signator _____ *Date* _____

GRAPHIC SCALE

30 0 30 60

NOTES:

1. *Base survey and map provided by CLA Engineers, Inc., 317 Main Street, Norwich, CT 06360, (860) 886-1966. This survey and map has been prepared in accordance with Section 20-300b-1 through 20-300b-20 of the Regulations for State Agencies "Standards for Surveys and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc. 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."*
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   310 Norwich New London Tpke
   Uncasville, CT 06382

REVISIONS		
NO.	DESCRIPTION	DATE

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Tel. 203-888-4904 Fax 203-881-3434 *dwsjrpe@sbcglobal.net*

EXISTING CONDITIONS & DEMOLITION PLAN

MONTVILLE ANIMAL SHELTER

225 MAPLE AVENUE

MONTVILLE, CONNECTICUT

Job No. 22-24

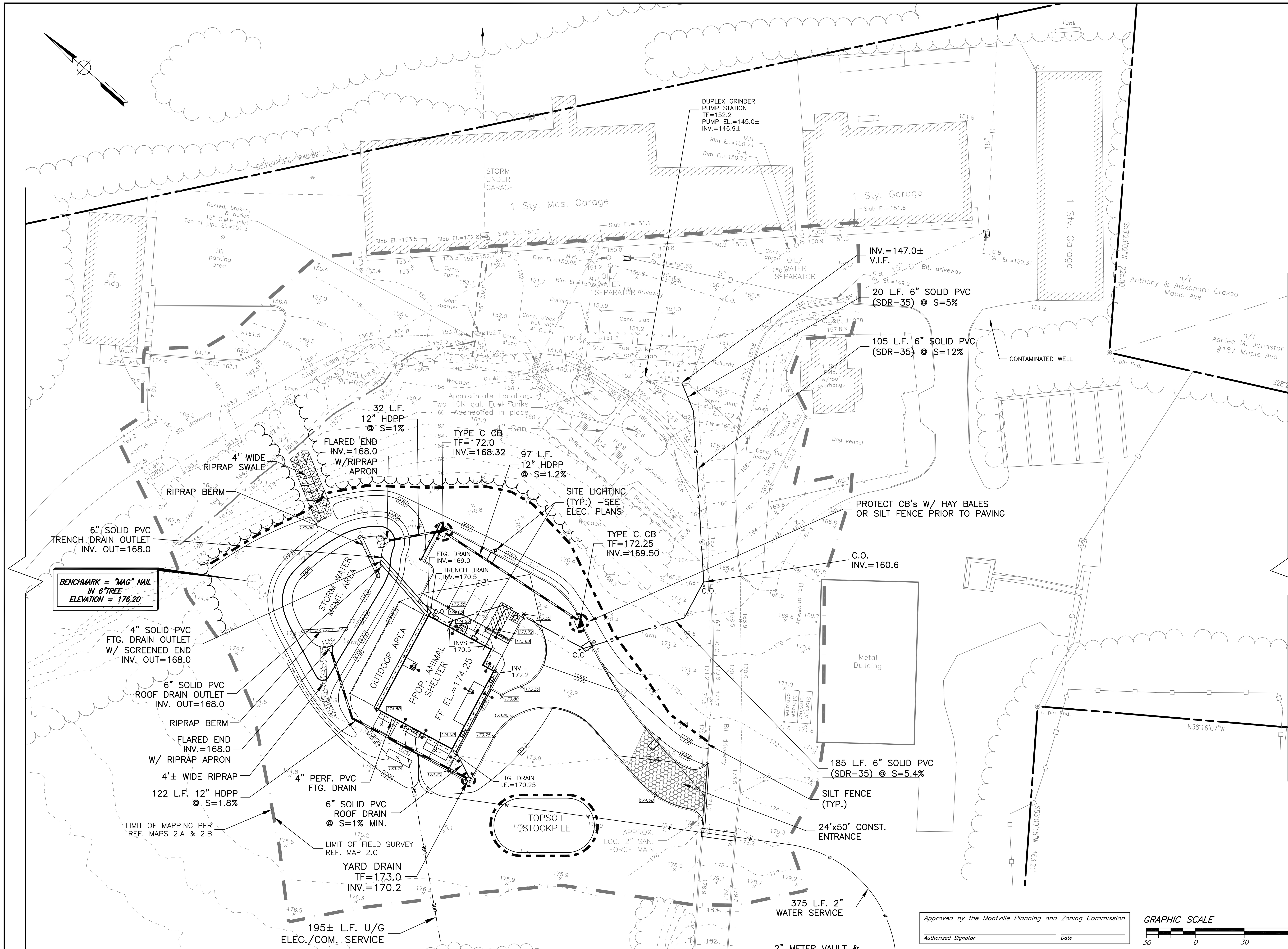
Scale: 1"=30'

Date: 10/2/23

Designed: D.W.S.

Drawn: K.D.K.

Sheet: C200



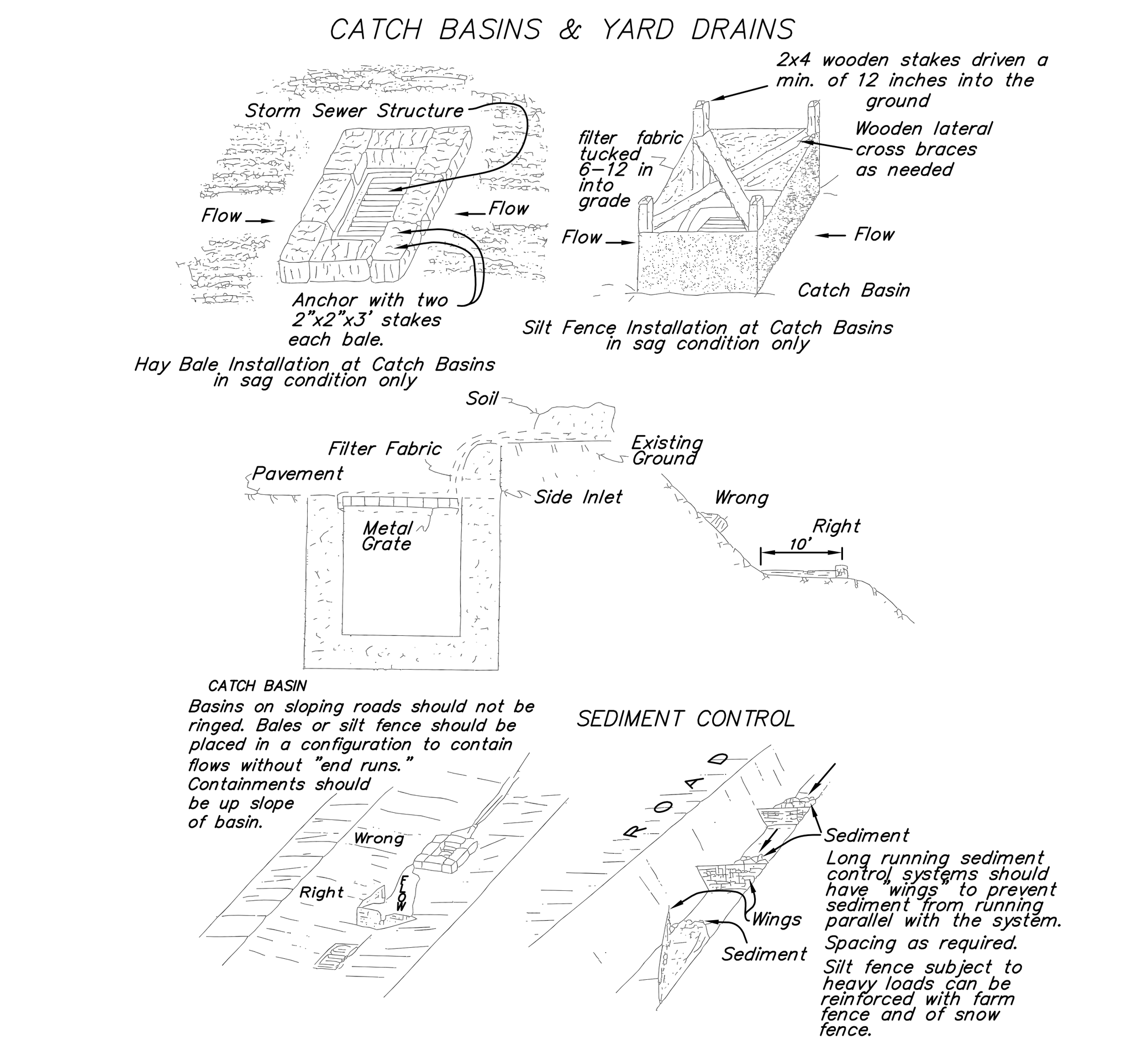
DUPLEX GRINDER PUMP STATION
TF=152.2
PUMP EL.=145.0±
INV.=146.9±
STORM UNDER GARAGE
1 Sty. Mas. Garage
1 Sty. Garage
Fr. Bldg.
Anthony & Alexandra Grasso Maple Ave
Ashlee M. Johnston #187 Maple Ave
INV.=147.0± V.I.F.
20 L.F. 6" SOLID PVC (SDR-35) @ S=5%
105 L.F. 6" SOLID PVC (SDR-35) @ S=12%
CONTAMINATED WELL
32 L.F. 12" HDPP @ S=1%
FLARED END INV.=168.0 W/RIPRAP APRON
TYPE C CB TF=172.0 INV.=168.32
97 L.F. 12" HDPP @ S=1.2%
4' WIDE RIPRAP SWALE
RIPRAP BERM
SITE LIGHTING (TYP.) –SEE ELEC. PLANS
TYPE C CB TF=172.25 INV.=169.50
PROTECT CB's W/ HAY BALES OR SILT FENCE PRIOR TO PAVING
6" SOLID PVC TRENCH DRAIN OUTLET INV. OUT=168.0
C.O. INV.=160.6
BENCHMARK = "MAG" NAIL IN 6"TREE ELEVATION = 176.20
STORM WATER MGMT. AREA
OUTDOOR AREA
PROP. ANIMAL SHELTER FF EL.=174.25
Metal Building
Dog kennel
4" SOLID PVC FTG. DRAIN OUTLET W/ SCREENED END INV. OUT=168.0
6" SOLID PVC ROOF DRAIN OUTLET INV. OUT=168.0
RIPRAP BERM
FLARED END INV.=168.0 W/ RIPRAP APRON
4'± WIDE RIPRAP
4" PERF. PVC FTG. DRAIN
122 L.F. 12" HDPP @ S=1.8%
6" SOLID PVC ROOF DRAIN @ S=1% MIN.
185 L.F. 6" SOLID PVC (SDR-35) @ S=5.4%
SILT FENCE (TYP.)
24'x50' CONST. ENTRANCE
TOPSOIL STOCKPILE
LIMIT OF MAPPING PER REF. MAPS 2.A & 2.B
LIMIT OF FIELD SURVEY REF. MAP 2.C
YARD DRAIN TF=173.0 INV.=170.2
375 L.F. 2" WATER SERVICE
195± L.F. U/G ELEC./COM. SERVICE
2" METER VAULT & CONNECTION TO EXIST. SERVICE LATERAL PER MUNICIPAL STANDARDS
FORCE MAIN TO LATERAL CONNECTION ELEV.=180.0
PROP. O.H. ELEC. SERVICE
NEW UTILITY POLE W/ RISERS
MAPLE AVENUE

Approved by the Montville Planning and Zoning Commission

Authorized Signator | Date

GRAPHIC SCALE

30 0 30 60



Source: U.S. Department of Agriculture, Soil Conservation Service, Storrs, CT.

PLACEMENT OF CONTROL MEASURES AT CATCH BASINS & YARD DRAINS

N.T.S.

CONSTRUCTION ENTRANCE ANTI – TRACKING PAD

N.T.S.

Source: U.S. Department of Agriculture, Soil Conservation Service, Storrs, Connecticut.

PLACEMENT AND CONSTRUCTION OF A SYNTHETIC FILTER BARRIER

N.T.S.

EROSION CONTROL NOTES:

1. Land disturbance shall be kept to the minimum necessary for construction operations.
2. All soil erosion and sediment control measures must be constructed in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control by the Connecticut Council on Soil and Water Conservation in cooperation with the Connecticut Department of Environmental Protection.
3. Erosion and sediment control measures shall be installed as depicted on this plan, and maintained in an effective condition throughout the construction period. Additional measures shall be installed as necessary and required.
4. All disturbed areas shall be permanently stabilized as soon as practicable.
5. The Site Contractor is assigned the responsibility for implementing the control measures of this plan. This responsibility includes the installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of this plan, and notifying the Planning and Zoning Commission of the transfer of this responsibility, and for conveying a copy of this plan if title to the property is transferred.

NOTES:

1. Base survey and map provided by CLA Engineers, Inc., 317 Main Street, Norwich, CT 06360, (860) 886–1966. This survey and map has been prepared in accordance with Section 20–300b–1 through 20–300b–20 of the Regulations for State Agencies "Standards for Surveys and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc.
   "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."
2. Reference Maps:
   a. Map entitled "Town of Montville, Department of Public Works, Boundary Survey," Horizontal Accuracy: A–2, Scale 1"=40', Sheet No. 1, Dated 09/27/19 by CLA Engineers, Inc., 317 Main Street, Norwich, CT 06360, (860) 886–1966.
   b. CT Environmental Conditions Online (CTECO) Advanced Viewer Spring 2016 Aerial Imaging with elevation contours.
   c. Map entitled "Topographic Survey, prepared for Montville Animal Shelter, 222 Maple Avenue, Montville, Connecticut," Vertical Accuracy: T–2, Scale 1"=30', Sheet 1 of 1, Dated 7/26/23 by Horbal & Judson Land Surveyors & Associates, 52 Main Street, Seymour, Connecticut 06483, (203)888–9660.
3. Total Area = 511,476± square feet; 11.77± acres.
4. Existing Zone: GOV.
5. Tax Map/Block/Lot: 077–041–000.
6. **All utilities are not shown**. Utility information depicted hereon is approximate and is based on aboveground structures, record drawings, paint mark–outs and as–built field locations. Actual utility locations may vary from those depicted hereon. All contractors are required to utilize "CALL BEFORE YOU DIG" One Call System 1–800–922–4455 for verification of the utility information prior to the start of any work.
8. Owner & Applicant: Town of Montville
   310 Norwich New London Tpke
   Uncasville, CT 06382

REVISIONS		
NO.	DESCRIPTION	DATE

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
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DONALD W. SMITH, JR., P.E.
CONSULTING ENGINEER
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Tel. 203–888–4904 Fax 203–881–3434 dwsjrpe@sbcglobal.net

GRADING, EROSION CONTROL & UTILITY PLAN

MONTVILLE ANIMAL SHELTER

225 MAPLE AVENUE

MONTVILLE, CONNECTICUT

Job No. 22–24	
Scale: 1"=30'	
Date: 10/2/23	
Designed: D.W.S.	
Drawn: K.D.K.	
Sheet: C300	

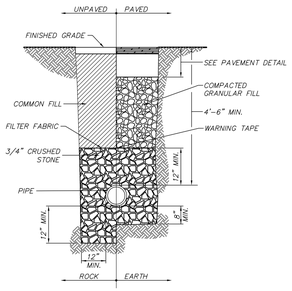
GENERAL CONSTRUCTION SEQUENCE:

The anticipated time of completion for all aspects of construction is ten (10) months from the initial start date. Construction is expected to start in the Fall of 2023 and be completed by April 2025

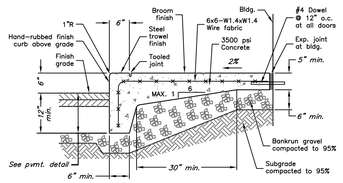
Prior to any on-site activity, the Contractor shall be responsible for holding a pre-construction meeting with the design team and appropriate City officials and for notifying "Call Before You Dig" (1-800-922-4455) of the proposed project. (Estimated Time: 3 days)

The general sequence of work will be as follows:

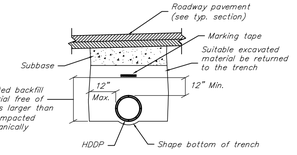
1. *Stakeout limits of new construction, saw cut and remove the designated portions of bituminous concrete pavement and dispose off-site. (Estimated Time: 1 day)*
2. *Install silt fence and other erosion control measures as shown on plans and as directed by the "Engineer". Maintain all erosion and sediment control measures in an effective condition throughout the construction phase. (Estimated Time: 1 day)*
3. *Clear and grub existing trees and stumps and dispose off-site. (Estimated Time: 3 days)*
4. *Excavate for new building foundation, pour foundation and backfill. (Estimated Time: 4 weeks)*
5. *Construct new building and utility services. (Estimated Time: 26 weeks)*
6. *Excavate storm water management area, install and backfill new storm drainage system. (Estimated Time: 3 weeks)*
7. *Complete "boxing out" of parking area and new sidewalks and prepare subgrade for specified base materials (Estimated Time: 3 days)*
8. *Install specified base courses, new concrete sidewalks and curb and bituminous concrete pavement. (Estimated Time: 15 days)*
9. *Install bituminous concrete curbing. (Estimated Time: 1 day)*
10. *Install Handicap parking signage and pavement markings. (Estimated Time: 1 week).*
11. *Install topsoil and seed all disturbed areas as soon as practical. (Estimated Time: 1 day)*



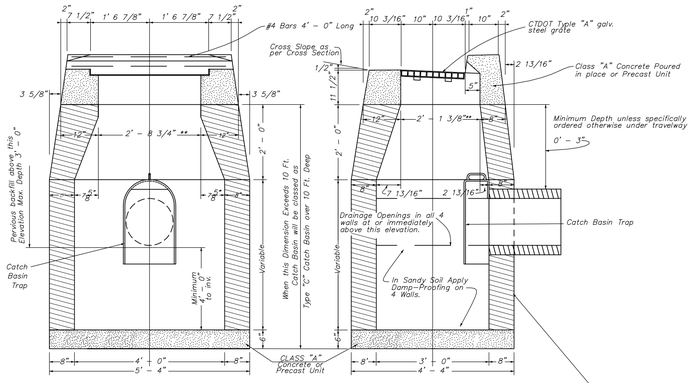
TYPICAL WATER SERVICE TRENCH DETAIL
NOT TO SCALE



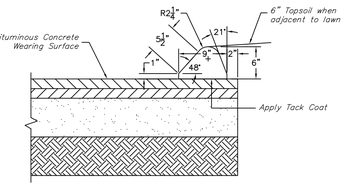
CONCRETE WALK W/6"x18" INTEGRAL CURB
N.T.S.



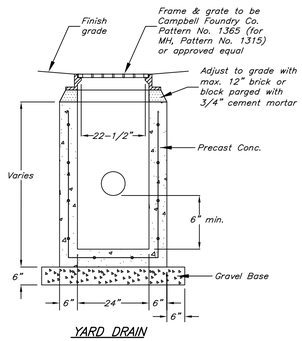
HDPP STORM DRAIN TRENCH
N.T.S.



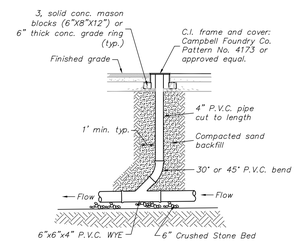
CATCH BASIN DETAIL
N.T.S.



6" BIT. CONC. LIP CURB DETAIL
N.T.S.

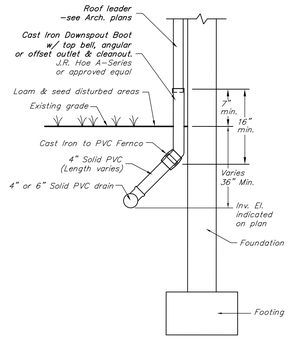


YARD DRAIN
N.T.S.

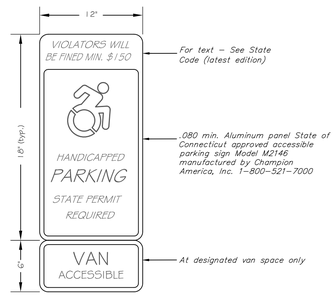


NOTE:
1) Cleanouts to be located 75' O.C. (max.) and at angle points where one or more cumulative changes in direction exceeds 45°.
2) Contractor to provide owner with ties to each cleanout.

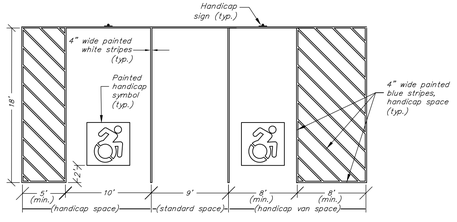
SANITARY SEWER CLEANOUT DETAIL
N.T.S.



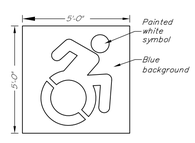
C.I. ROOF DRAIN CONNECTION DETAIL
N.T.S.



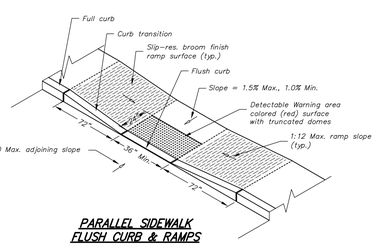
HANDICAP PARKING SIGN
N.T.S.



TYPICAL HANDICAP PARKING SPACE PAVEMENT MARKING
N.T.S.

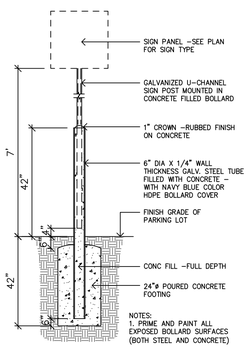


STANDARD HANDICAP SYMBOL PAVEMENT MARKING
N.T.S.

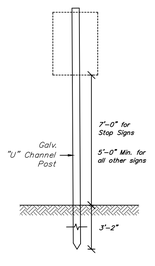


PARALLEL SIDEWALK FLUSH CURB & RAMPS
N.T.S.

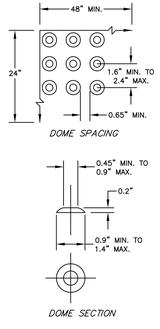
ACCESSIBLE RAMP DETAILS



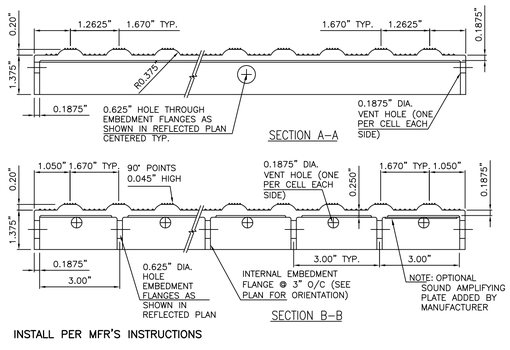
SIGN MOUNTED IN STEEL BOLLARD
N.T.S.



METAL SIGN DETAIL
N.T.S.

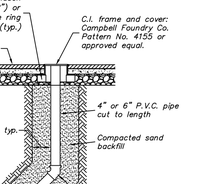


DETECTABLE WARNING AREA
N.T.S.



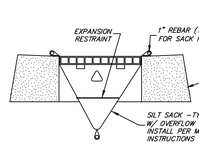
INSTALL PER MFR'S INSTRUCTIONS

DETECTABLE WARNING DETAIL (CAST IN PLACE)
ARMOR-TILE OR APPROVED EQUAL
N.T.S.

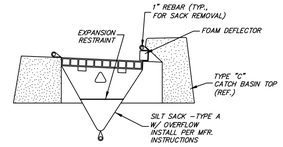


NOTE: Contractor to provide owner with ties to each cleanout.

ANGLE-POINT SANITARY SEWER CLEANOUT DETAIL
N.T.S.



SILT SACK -TYPE B
N.T.S.



SILT SACK -TYPE A
N.T.S.

Approved by the Montville Planning and Zoning Commission

Authorized Signator _____ *Date* _____

REVISIONS		
NO.	DESCRIPTION	DATE

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

DONALD W. SMITH, JR., P.E.
CONSULTING ENGINEER
56 GREENWOOD CIRCLE SEYMOUR, CT 06483
Tel. 203-888-4904 Fax 203-881-3434 *dwsjrpe@sbcglobal.net*

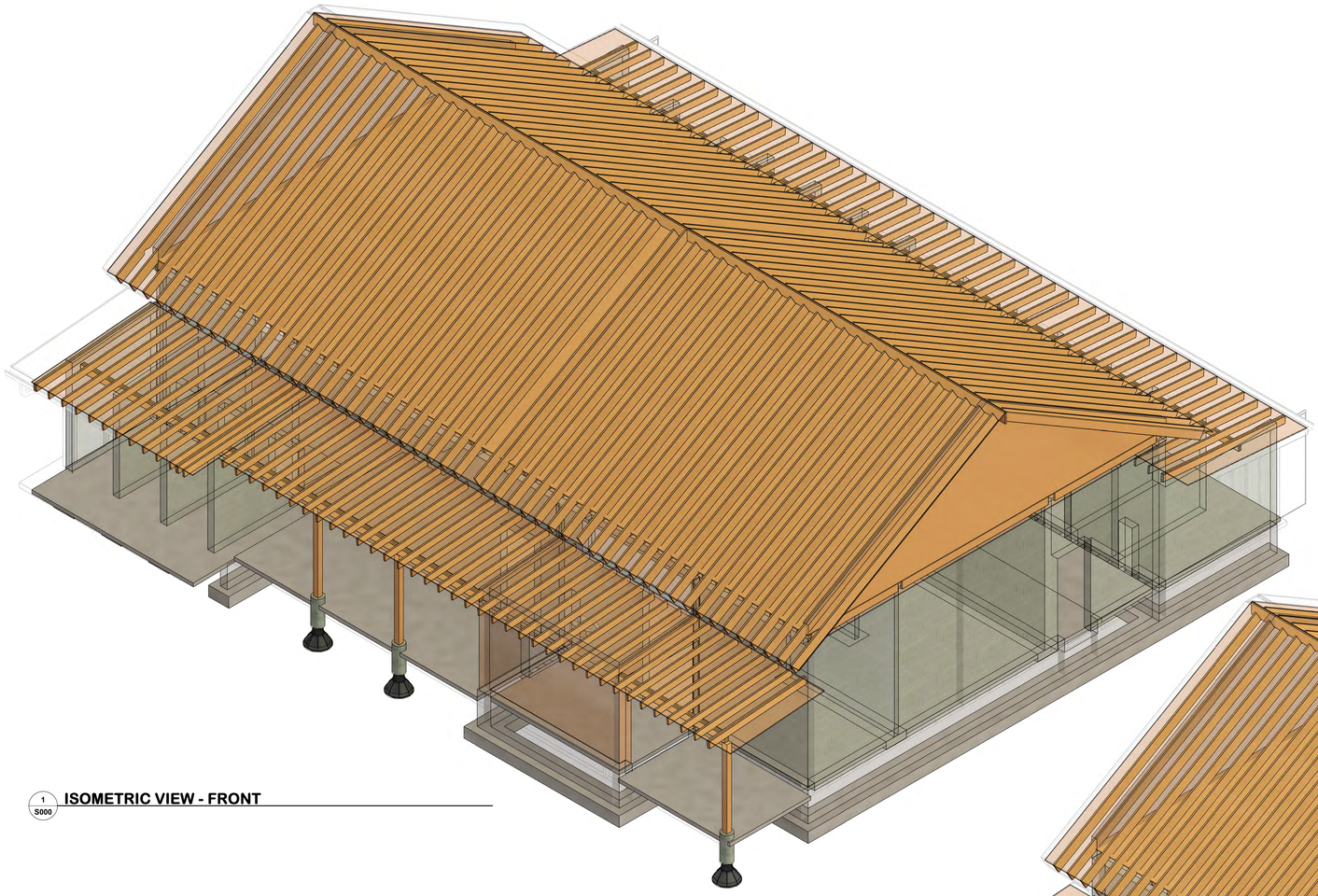
DETAILS

MONTVILLE ANIMAL SHELTER

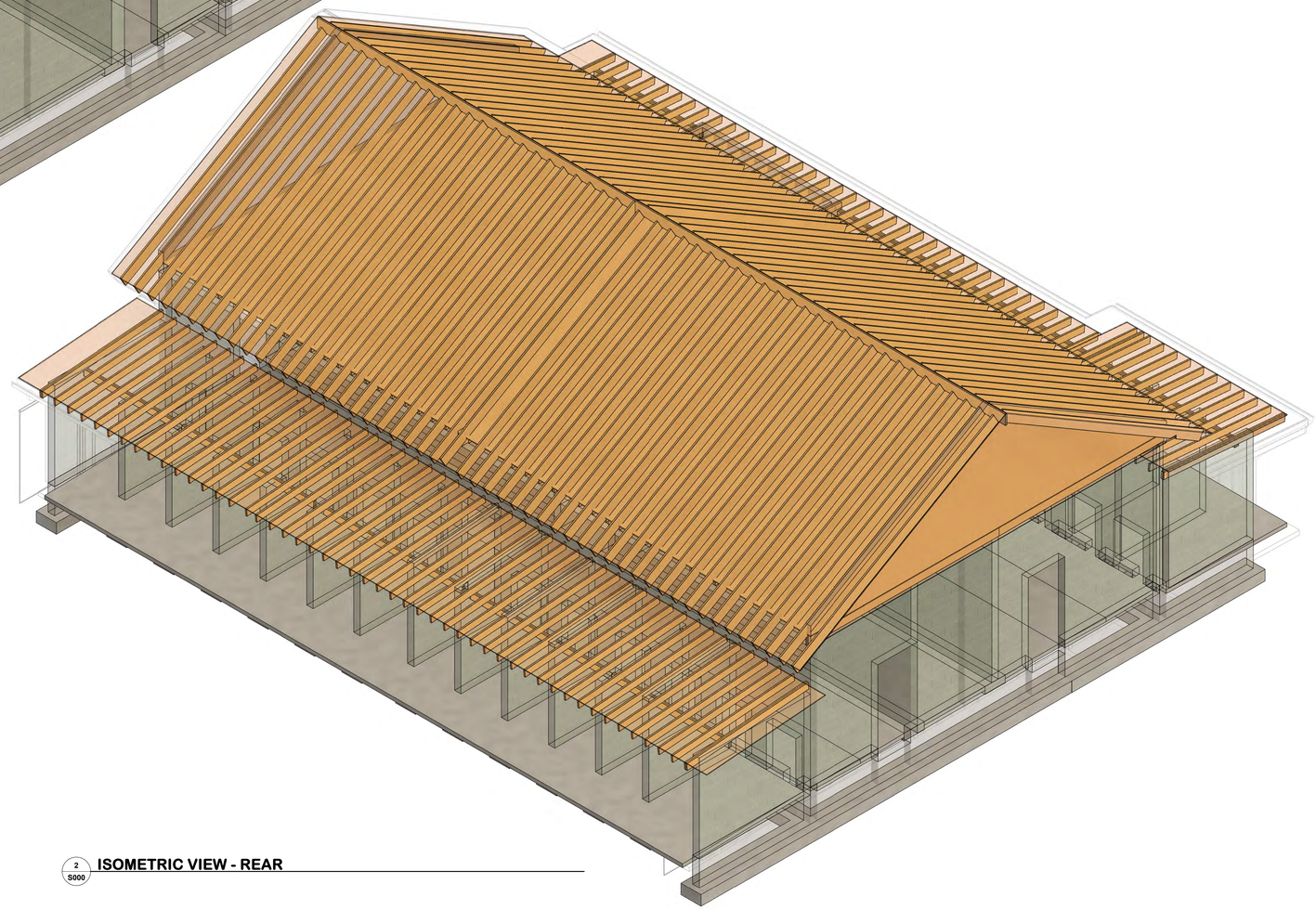
225 MAPLE AVENUE

MONTVILLE, CONNECTICUT

Job No. 22-24
Scale: As Noted
Date: 10/2/23
Designed: D.W.S.
Drawn: K.D.K.
Sheet: C400



1 S000 **ISOMETRIC VIEW - FRONT**



2 S000 **ISOMETRIC VIEW - REAR**

Project Title:
New Animal Facility at:
Montville Animal Shelter
255 Maple Ave.
Montville, CT

ez engineers structural engineers
NEW LONDON, CT CONCORD, MA
New London: 860 437 3259
Concord: 978 294 8806

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:
ISOMETRIC VIEWS

Date: 09.29.2023
Scale:
Drawn By: GKS
Project Number: 23078

Drawing Number:
S000

GENERAL STRUCTURAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CONNECTICUT STATE BUILDING CODE AND ITS APPLICABLE REFERENCED STANDARDS.
2. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEER OF RECORD.
3. THE CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL SLEEVES, OPENINGS AND ANCHORAGES (INCLUDING ANCHOR BOLTS) AS REQUIRED BY ALL TRADES. OPENINGS NOT SPECIFICALLY SHOWN SHALL BE APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER.
4. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE FOR A SAFE AND EFFICIENT METHOD OF SHORING AND / OR BRACING THE STRUCTURE DURING CONSTRUCTION. SHOULD CONSTRUCTION LOADS (MANPOWER, EQUIPMENT OR OTHERWISE) EXCEED THE 20 PSF CONSTRUCTION LIVE LOAD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CALCULATIONS SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT. THE CONTRACTOR SHALL CARRY ALL COSTS ASSOCIATED WITH TEMPORARY LOADS DURING CONSTRUCTION.
5. ALL WORK SHALL BE CONTINUOUSLY MONITORED AND INSPECTED BY AN INDEPENDENT TESTING AGENCY REFER TO SPECIAL INSPECTION NOTES ON THIS SHEET. SUBMIT ALL TEST AND INSPECTION REPORTS TO THE ARCHITECT & ENGINEER FOR REVIEW.
6. STRUCTURAL MEMBERS SHALL NOT BE MODIFIED IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. IN THE EVENT OF A CONSTRUCTION OR FABRICATION ERROR, THE CONTRACTOR SHALL PREPARE A SKETCH WITH A PROPOSED REPAIR, AND SUBMIT IT TO THE ARCHITECT AND ENGINEER OF RECORD FOR APPROVAL PRIOR TO PERFORMING ANY CORRECTIVE WORK.
7. SUBMIT SHOP DRAWINGS AND RFIs FOR REVIEW, APPROVAL, AND RESPONSE (FOR ALL TRADES INDICATED HEREIN) PRIOR TO PROCEEDING WITH FABRICATION AND / OR CONSTRUCTION. CONTRACTOR SHALL ALLOW FOR A 2 WEEK REVIEW PERIOD BY THE DESIGN TEAM.
8. IN ANY CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL MAKE NO DEVIATION FROM CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
9. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
10. ALL COSTS OF INVESTIGATION AND / OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT THE CONTRACTOR'S EXPENSE.
11. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING AND SHORING, ETC.
12. TYPICAL DETAILS APPLY REPETITIVELY ON THE PROJECT. CONTRACTOR SHALL COORDINATE THE GENERAL REQUIREMENTS OF TYPICAL DETAILS WITH PROJECT CONDITIONS, PLANS, SPECIFICATIONS, AND SECTIONS.
13. THE PLAN AND DETAILS HEREIN ARE BASED ON LIMITED SITE OBSERVATIONS AND EXISTING DRAWINGS. ANY DISCREPANCIES BETWEEN THE EXISTING FIELD CONDITIONS AND THE DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.

DESIGN DATA:

1. SUPERIMPOSED DEAD LOAD:
   A. ROOF .... 12 PSF
   B. FLOOR .... 15 PSF
2. FLOOR LIVE LOAD:
   A. OFFICES (UNIFORM) .... 50 PSF
   B. LOBBIES & CORRIDORS (UNIFORM) .... 100 PSF
   C. PARTITION LOADS .... 15 PSF
3. ROOF LIVE LOAD
   A. MINIMUM ROOF LIVE LOAD (UNIFORM) .... 20 PSF
4. ROOF SNOW LOAD DATA:
   A. GROUND SNOW LOAD, P_g .... 30 PSF
   B. FLAT ROOF SNOW LOAD, P_f .... 30 PSF
   C. SNOW EXPOSURE FACTOR, C_e 1.0
   D. SNOW LOAD IMPORTANCE FACTOR, I_s 1.0
   E. THERMAL FACTOR, C_t 1.0
5. WIND DESIGN DATA:
   A. BASIC WINDSPEED, V_{ult} .... 125 MPH (3-SEC. GUST)
   B. NOMINAL WINDSPEED, V_{asd} .... 97 MPH (3-SEC. GUST)
   C. RISK CATEGORY II
   D. WIND EXPOSURE CATEGORY C
   E. INTERNAL PRESSURE COEFFICIENT, GC_{pi} .... +/- 0.18
   F. BASE PRESSURE, q_h .... 29 PSF
   G. NET UPLIFT ON ROOF (SERVICE) .... 10 PSF
   H. COMPONENTS AND CLADDING LOADS .... PER CH. 30 OF ASCE7-16
6. EARTHQUAKE DESIGN DATA:
   A. RISK CATEGORY II
   B. SEISMIC IMPORTANCE FACTOR, I_e 1.0
   C. S_s 0.198
   D. S_1 .... 0.054
   E. SITE CLASS .... D
   F. S_{ds} 0.211
   G. S_{d1} 0.086
   H. SEISMIC DESIGN CATEGORY .... B
   I. ANALYSIS PROCEDURE .... EQUIVALENT LATERAL FORCE ANALYSIS
   J. ANALYSIS PARAMETERS:

      BOTH DIRECTIONS
      • SEISMIC RESISTING SYSTEM(S) .... ORDINARY REINFORCED MASONRY SHEAR WALLS
      • RESPONSE MODIFICATION FACTOR, R 2.0
      • OVERSTRENGTH, Ω 2.5
7. GEOTECHNICAL INFORMATION:
   A. DESIGN BEARING CAPACITY .... 2000 PSF (ASSUMED)
   B. BEARING STRATA .... GC DETERMINE

REINFORCED CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 318 AND 301 REQUIREMENTS. THIS SHALL INCLUDE PROPORTIONING OF CONCRETE MIX, CONCRETE TESTING, PLACEMENT OF CONCRETE, AND CURING PROCEDURES.
2. ALL COLD WEATHER CONCRETING SHALL CONFORM TO THE REQUIREMENTS OF ACI 306. THE G.C. SHALL BE RESPONSIBLE FOR SUBMITTING A COLD WEATHER CONCRETING PROCEDURE FOR REVIEW PRIOR TO CONSTRUCTION.
3. ALL HOT WEATHER CONCRETING SHALL CONFORM TO THE REQUIREMENTS OF ACI 305. THE G.C. SHALL BE RESPONSIBLE FOR SUBMITTING A HOT WEATHER CONCRETING PROCEDURE FOR REVIEW PRIOR TO CONSTRUCTION.
4. ALL CONCRETE CURING SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN ACI 308.
5. CONCRETE SHALL HAVE 28-DAY COMPRESSIVE STRENGTH, AIR ENTRAINMENT, W/CM RATIO, AND MAX AGGREGATE SIZE PER THE TABLE BELOW.
6. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS REQUIRED TO BE WELDED AS SHOWN ON PLANS. ALL REINFORCING BARS REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. SUPPORT WIRE FABRIC WITH CHAIRS OR LIFTS, DURING CONCRETE PLACEMENT TO ENSURE PROPER POSITION IN SLAB.
8. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.
9. ALL REINFORCING BARS SHALL BE LAPPED AS SPECIFICALLY DETAILED ON THE DRAWINGS. WHERE NOT SPECIFICALLY INDICATED ON THE DRAWINGS, THE MINIMUM LENGTH OF REBAR LAPS / SPLICES SHALL BE IN ACCORDANCE W/ ACI 318 CLASS B TENSION LAPS.
10. PROVIDE THE FOLLOWING CLEAR PROTECTION FOR REBAR IN CAST-ON-PLACE CONCRETE ELEMENTS (UNLESS OTHERWISE NOTED):
    A. SURFACES CAST AGAINST EARTH: .... 3"
    B. SURFACES EXPOSED TO EARTH / WEATHER: .... 2"
    C. SLABS AND JOISTS .... 3/4"
    D. SLABS ON GRADE .... SLAB DEPTH / 3, 1 1/4" MIN.
    E. BEAMS, COLUMNS, ETC. .... 1 1/2"
11. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI-318 CHAPTER 26.5.6.
12. ALL ADJOINING SURFACES NOT CAST MONOLITHICALLY SHALL BE ROUGHENED TO 1/4 INCH AMPLITUDE FOR THE ENTIRE INTERSECTING SURFACE ACCORDING TO ACI RECOMMENDATIONS AND APPLY A BONDING AGENT AS REQUIRED.
13. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, CURBS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.
14. CONTRACTOR SHALL COORDINATE LOCATION ON INSERTS, WELDED PLATES AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
15. CONTRACTOR SHALL USE RIGID STEEL TEMPLATES (SUPPLIED BY THE STEEL FABRICATOR) TO INSTALL ANCHOR RODS.
16. PROVIDE CORNER BARS AT ALL WALL CORNERS & INTERSECTIONS MATCHING HORIZONTAL REINFORCEMENT. BARS SHALL BE LAPPED A MINIMUM OF 48 BAR DIAMETERS.
17. COORDINATE ALL PENETRATIONS PRIOR TO CONSTRUCTION AND SUBMIT OPENING SIZES TO ARCHITECT / ENGINEER FOR REVIEW.
18. SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW. ONCE REVIEWED AND APPROVED BY THE ARCHITECT / ENGINEER, THE CONTRACTOR SHALL PROVIDE THE REINFORCING STEEL ERECTOR WITH A SET OF THE APPROVED SHOP DRAWINGS FOR FIELD USE.
19. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, WALLS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED IN WRITING PRIOR TO CONSTRUCTION BY THE ENGINEER.
20. NO CONCRETE TEST WILL BE ACCEPTED IF CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING.
21. CONTRACTOR SHALL COORDINATE LOCATION OF FLOOR DRAINS, CURBS, CONCRETE PADS AND FLOOR DEPRESSIONS, ETC., WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS.
22. HORIZONTAL PIPES OR CONDUITS PLACED IN SLABS SHALL NOT BE SPACED CLOSER THAN 3 TIMES THE DIAMETER OF THE PIPE OR CONDUIT, CENTER TO CENTER.
23. ALL SLABS SHALL BE FLAT AND LEVEL PER THE CONCRETE SPECIFICATIONS.
24. ALL CONCRETE WORK, REINFORCING, PLACEMENT, AND FORMWORK SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY RETAINED BY THE OWNER. REFER TO PROJECT SPECS FOR THE TESTING REQUIRED ITEMS.
25. FOUNDATIONS SHALL BE PROTECTED FROM FROST THROUGHOUT PHASED CONSTRUCTION IN ACCORDANCE WITH ASCE 32-01 WITH A MINIMUM OF 1 INCH THICK LAYER INSULATION HAVING A NOMINAL RESISTIVITY OF 5 R/IN.
26. LIMITATIONS: IT MUST BE NOTED THAT NO STRUCTURE OR SLAB SHOULD BE EXPECTED TO REMAIN TOTALLY FREE OF CRACKS AND MINOR SIGNS OF STRESS. THE FLEXIBLE NATURE OF STRUCTURES ALLOWS THEM TO RESPOND TO MOVEMENTS RESULTING FROM MINOR SETTLEMENT OF FILL OR NATURAL SOILS. IN ADDITION, PRODUCTS CONTAINING CEMENT ALSO SHRINK DURING NATURAL CURING. ALL OF THE ABOVE CAN INDUCE STRESSES THAT FREQUENTLY RESULT IN COSMETIC CRACKING OR RIGID SURFACES.

CONCRETE MIX DESIGN PROPERTIES

ITEM	CONCRETE	EXPOSURE CLASS	MAX w/cm	MIN f_c' PSI	AIR CONTENT	MAX AGGREGATE SIZE
SLAB ON GRADE (EXTERIOR)	NW	F3	0.40	5000	6% +/- 1.5%	1"
SLAB ON GRADE (INTERIOR)	NW	F0	0.55	4000	NON AIR ENTRAINED, 3% MAX	1"
FOUNDATION WALLS & PIERS	NW	F2	0.45	4500	6% +/- 1.5%	3/4"
FOOTINGS	NW	F2	0.45	4500	6% +/- 1.5%	1 1/2"
CONCRETE ON METAL DECK (INTERIOR)	LW	F0	0.55	4000	6% +/- 1.5%	3/4"

FOUNDATIONS:

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "DIG SAFE" AS WELL AS ALL APPROPRIATE AGENCIES AND MUNICIPALITIES TO AVOID DAMAGE TO UNDERGROUND UTILITIES PRIOR TO THE START OF ANY SITE WORK.
2. A RIGOROUS GEOTECHNICAL EXPLORATION PROGRAM HAS NOT YET BEEN UNDERTAKEN FOR THIS SITE. IT IS THE RESPONSIBILITY OF THE G.C. TO HIRE A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT TO PRODUCE A GEOTECHNICAL REPORT.
3. FOOTINGS SHALL BE STEPPED AT A MAXIMUM SLOPE OF 2 HORIZONTAL TO 1 VERTICAL, UNLESS NOTED OTHERWISE BY THE FORTHCOMING GEOTECHINCAL REPORT.
4. THE BOTTOM OF ALL FOOTINGS AND SLABS-ON GRADE SHALL BEAR ON A 8" THICK MINIMUM LAYER OF CRUSHED STONE OVER EXISTING VIRGIN SOILS, UNLESS NOTED OTHERWISE BY THE FORTHCOMING GEOTECHINCAL REPORT. AT SLABS-ON-GRADE REFER TO THE ARCHITECTURAL DRAWINGS FOR ANY POSSIBLE ADDITIONAL LAYERS OF MATERIAL BETWEEN THE CRUSHED STONE AND SLABS. THE FOUNDATION DESIGNS ARE BASED ON A MINIMUM PRESUMPTIVE BEARING CAPACITY OF 3,000 PSF.
5. THE BOTTOM OF ALL FOOTINGS SHALL BE A MINIMUM OF 3'-6" BELOW THEIR ADJACENT EXTERIOR GRADE FOR FROST PROTECTION.
6. REMOVE ALL TOPSOIL, EXISTING FILLS, ORGANIC MATERIALS, AND FROST DISTURBED SOILS PRIOR TO PLACING NEW FOOTINGS.
7. DURING BACKFILL OPERATIONS OF ALL FOUNDATION WALLS, THE FILL ON EITHER SIDE OF THE WALL SHALL NOT EXCEED A 2'-0" DIFFERENTIAL, UNLESS THE WALL IS DESIGNED FOR RETAINING ACTION.
8. IN NO CASE SHALL BULLDOZERS OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 5 FEET FROM ANY FOUNDATION WALL. IF IT IS NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THAN 5 FEET TO THE WALL, THE CONTRACTOR SHALL BE THE SOLE RESPONSIBLE PARTY AND AT THEIR OWN EXPENSE SHALL PROVIDE ADEQUATE SUPPORTS OR BRACE THE WALL TO WITHSTAND THE ADDITIONAL LOADS SUPERIMPOSED FROM SUCH EQUIPMENT.
9. CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATION SLOPES. WHERE NECESSARY, SHEETING AND SHORING OF EXCAVATION SHALL BE PROVIDED WITH ALL REQUIRED TIEBACKS AND BRACING.
10. METHODS EMPLOYED IN ALL SHEETING AND SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.
11. SOIL COMPACTION SHALL BE CONTROLLED BY A QUALIFIED TESTING LABORATORY OR GEOTECHNICAL ENGINEER AS PART OF SPECIAL INSPECTIONS. TAKE A MINIMUM OF ONE FIELD DENSITY TEST FOR EACH LAYER. LOCATION OF TEST SHALL BE DETERMINED BY THE TESTING AGENCY.

REINFORCED MASONRY:

1. WALLS INDICATED ON STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR TYPE, LOCATION, THICKNESS AND COMPOSITION OF MASONRY WALLS.
2. COMPRESSIVE STRENGTH OF MASONRY ASSEMBLY SHALL BE EQUAL TO OR EXCEED f'm = 2000 PSI.
3. MATERIALS:
   A. HOLLOW LOAD BEARING UNITS (NORMAL WEIGHT UNITS) SHALL CONFORM TO ASTM C90 AND HAVE AN AVERAGE MINIMUM COMPRESSIVE STRENGTH OF 2800 PSI ON THE NET AREA, UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SECTIONS..
   B. MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S. TYPE M MORTAR SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI. TYPE S MORTAR SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1,800 PSI.
   C. GROUT SHALL CONFORM TO ASTM C476, FINE TYPE, AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
   D. SOLID LOAD BEARING UNITS: (GRADE N-1) ASTM C 145.
   E. CONCRETE BRICK: (GRADE N-1) ASTM C 55
4. MASONRY WALL REINFORCING: DEFORMED STEEL BARS SHALL MEET ASTM A 615 AND SHALL BE GRADE 60. BENT BARS SHOULD BE SHOP FABRICATED.
5. ALL VERTICAL WALL REINFORCING SHALL BE CONTINUOUS FOR THE FULL HEIGHT OF MASONRY WALLS, INCLUDING THROUGH CONTINUOUS MASONRY BOND BEAMS UNLESS OTHERWISE INDICATED. PROVIDE BAR POSITIONERS FOR ALL REINFORCED CELLS. BAR POSITIONERS FOR VERTICAL WALL BARS SHALL BE 9 GAUGE, GALVANIZED WIRE.
6. CELLS CONTAINING REINFORCING BARS AND ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID. ALL OTHER CELLS SHALL REMAIN HOLLOW EXCEPT WHERE NOTED.
7. GROUT SHALL BE PLACED BY LOW-LIFT METHOD. MAXIMUM GROUT POUR HEIGHT SHALL BE 4 FEET.
8. FURNISH LOOSE LINTELS, UNLESS OTHER LINTELS ARE INDICATED, FOR ALL OPENINGS IN MASONRY VENEERS FOR DOORS, WINDOWS, MECHANICAL OPENINGS, ETC. SEE LOOSE LINTEL SCHEDULE FOR SIZE AND BEARING.
9. ALL BOLTS OR ANCHORS SHALL BE SOLIDLY EMBEDDED IN MORTAR OR GROUT. IF BOND BEAM IS NOT LOCATED AT BOLT OR ANCHOR ELEVATION, PROVIDE LATH AND FILL CELL LOCALLY TO PROVIDE SUBSTRATE FOR BOLT OR ANCHOR. GROUT CELL ABOVE ALL MASONRY ANCHORS.
10. PROVIDE CONTINUOUS GROUTED BOND BEAM WHERE MASONRY ANCHORS CONNECT CONCRETE MASONRY TO STEEL FRAMING. GROUT CELL ABOVE ANCHOR.
11. HOLLOW UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS, EXCEPT THAT WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF BEARING AND SHEAR WALLS, PIERS, COLUMNS AND PILASTERS, AND IN THE STARTING COURSE ON FOOTINGS AND SOLID FOUNDATION WALLS, AND WHERE ADJACENT TO CELLS OR CAVITIES WHICH ARE TO BE REINFORCED AND / OR FILLED WITH GROUT.
12. MORTAR PROTRUSIONS EXTENDING INTO CELLS OR CAVITIES TO BE REINFORCED AND / OR GROUTED SHALL BE REMOVED.
13. TYPE M SHALL BE USED BELOW GRADE. PROVIDE FULL BEDDING BELOW GRADE AND AT ALL REINFORCED CORES ABOVE GRADE. USE FACE SHELL BEDDING AT UNGROUTED CORES. <u>UNDER NO CIRCUMSTANCES SHALL MORTAR BE USED AS GROUT.</u>
14. CMU BELOW GRADE SHALL BE NORMAL WEIGHT UNITS AND SHALL HAVE ALL CELLS FULLY GROUTED. CMU ABOVE THE FINISHED FLOORS SHALL BE NORMAL OR LIGHTWEIGHT UNITS AND SHALL BE GROUTED AT ALL REINFORCED CELLS AND WHERE INDICATED.
15. WALLS SHALL BE ADEQUATELY BRACED WITH TEMPORARY SUPPORTS UNTIL THE ROOF AND / OR FLOOR STRUCTURE HAS BEEN PLACED AND PROPERLY WIND-ANCHORED.
16. FOR LOCATION AND THICKNESS OF CMU WALLS, SEE ARCH. DRAWINGS.
17. ELASTOMERIC JOINT SEALANTS FOR VERTICAL AND HORIZONTAL CONTROL JOINTS SHALL MEET ASTM C920 AND SHALL BE APPLIED IN ACCORDANCE WITH ASTM C962.
18. ALL NON-BEARING MASONRY WALLS SHALL BE BRACED AT THE TOP UNLESS BRACED HORIZONTALLY BY COLUMNS OR INTERSECTING WALLS. MAXIMUM BRACING SPACING SHALL NOT EXCEED 11 FEET FOR 4" WALLS, 16 FEET FOR 6" WALLS, 20 FEET FOR 8" WALLS, 25 FEET FOR 10" WALLS AND 32 FEET FOR 12" WALLS.
19. IN MASONRY WALLS, NO CHASES, RISERS, CONDUITS, OR TOOTHING OF MASONRY SHALL OCCUR WITHIN 17" OF CENTER OF BEAM BEARING OR LOAD CONCENTRATION.
20. SOLID UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS.
21. ALL INTERSECTING LOAD BEARING WALLS SHALL BE TIED TOGETHER IN MASONRY RUNNING BOND UNLESS NOTED OTHERWISE.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND PROVIDING ADEQUATE TEMPORARY SHORING OF THE CMU WALLS UNTIL THE ROOF STEEL IS ERECTED AND PROPERLY ATTACHED.
23. MINIMUM DEVELOPMENT LENGTH AND LAP SPLICE LENGTH OF MASONRY REINFORCING SHALL BE AS FOLLOWS (UNLESS OTHERWISE INDICATED ON PLANS):

	BAR SIZE	DEVELOPMENT LENGTH	LAP SPLICE LENGTH
A.	#4	18"	24"
B.	#5	25"	30"
C.	#6	27"	36"
D.	#7	32"	42"

STRUCTURAL LUMBER / ROUGH CARPENTRY:

1. ALL WORK SHALL BE IN CONFORMANCE WITH THE AMERICAN FOREST AND PAPER ASSOCIATION STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONAL LUMBER SHALL BE DOUGLAS FIR-LARCH NORTH NO. 2 OR BETTER (19% MOISTURE CONTENT OR LESS.)
3. ALL SILL PLATES IN CONTACT WITH CONCRETE AND EXPOSED LUMBER SHALL BE PRESERVATIVE PRESSURE TREATED SOUTHERN PINE NO. 2 OR BETTER.
4. ALL INTERIOR AND EXTERIOR BEARING WALLS SHALL BE 2x6 AT 16" ON-CENTER DOUGLAS FIR-LARCH NORTH NO. 2 OR BETTER, UNLESS NOTED OTHERWISE. SEE BELOW FOR MINIMUM DESIGN VALUES.
5. PROVIDE METAL HANGERS AT ALL FLUSH FRAMED CONNECTIONS, INCLUDING RAFTERS / HIPS / VALLEYS TO THE STRUCTURAL RIDGE BEAM / BOARD.
6. ALL STRUCTURAL BUILT-UP MEMBERS SHALL BE COMPRISED OF FULL LENGTH PLIES FASTENED PER THE IBC. NO SPLICING OF PLIES IS PERMITTED UNLESS NOTED ON THE DRAWINGS.
7. ALL FASTENERS SHALL BE IN CONFORMANCE WITH THE FASTENING SCHEDULE IN THE INTERNATIONAL BUILDING CODE, UNLESS NOTED OTHERWISE. FASTENERS EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL.
8. ALL WALL SHEATHING SHALL BE 1/2" GRADE CDX PLYWOOD.
9. ALL ROOF DECK SHALL BE 5/8" GRADE CDX PLYWOOD AND SHALL BE SUPPORTED BY METAL CLIPS.
10. ALL FLOOR DECK SHALL BE 3/4" ADVANTECH TONGUE AND GROOVE PLYWOOD.
11. ALL FLOOR AND ROOF DECKING SHALL BE INSTALLED WITH ANNULAR RING SHANK NAILS (STAPLES SHALL NOT BE PERMITTED) WITH INSTALLATION PROCEDURES CONFORMING TO THE GOVERNING AGENCY STAMPED ON THE SHEETS.
12. ALL ROOF AREAS THAT ARE OVER-FRAMED SHALL CONTAIN ROOF DECKING ON THE UNDER-FRAMED MATERIAL, UNLESS NOTED OTHERWISE.
13. WHERE INDICATED, ALL LUMBER NOTED AS "LVL" SHALL BE VERSA-LAM LAMINATED VENEER LUMBER, AS MANUFACTURED BY BOISE CASCADE OR WEYERHAUSER.
14. WHERE INDICATED, ALL MEMBERS NOTED AS "TJI" SHALL BE ENGINEERED WOOD I JOISTS, AS MANUFACTURED BY WEYERHAEUSER. FLOOR BRIDGING AND / OR BLOCKING SHALL BE INSTALLED PER JOIST MANUFACTURER'S RECOMMENDATIONS.
15. ALL PLYWOOD AND STRUCTURAL USE PANELS SHALL CONFORM TO THE REQUIREMENTS OF THE APA - THE ENGINEERED WOOD ASSOCIATION.
16. ALL WALL STUDS CUT FOR OTHER TRADES OVER 1/4 OF THE STUD DEPTH SHALL BE DOUBLED.
17. SHOP DRAWINGS / SUBMITTALS ARE REQUIRED FOR THE FOLLOWING: JOISTS, HANGERS, BEAMS AND STEEL. PHOTOCOPYING OF CONTRACT DOCUMENTATION FOR SUBMITTAL PURPOSES SHALL NOT BE PERMITTED AND WILL BE REJECTED WITHOUT REVIEW.
18. WHERE STUD WALLS ARE GREATER THAN 8'-0", PROVIDE A ROW OF 2X SOLID HORIZONTAL BLOCKING.
19. ALL OPENINGS SHALL BE FRAMED BY DOUBLE MEMBERS UNLESS NOTED OTHERWISE.
20. PROVIDE 1"x4" CROSS-BRIDGING FOR ALL SOLID SAWN WOOD JOISTS AT 8'-0" ON-CENTER MAXIMUM SPACING AND 2x SOLID BLOCKING BETWEEN JOISTS AT ALL SUPPORTS AND PARTITIONS.
21. MINIMUM LUMBER ALLOWABLE DESIGN STRESSES SHALL BE IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) SUPPLEMENT AND AS FOLLOWS:

MEMBER	MODULUS OF ELASTICITY, E	FLEX. STRESS F_b	COMP. PERP. TO GRAIN $F_{c\perp}$	COMP. PARALLEL TO GRAIN $F_{c\parallel}$	HORIZ. SHEAR F_v
DFL NORTH #2	1.6 x 10^6 psi	850 psi	625 psi	1400 psi	180 psi
PSL POST	1.8 x 10^6 psi	2400 psi	545 psi	2500 psi	190 psi
PSL BEAM	2.0 x 10^6 psi	2900 psi	625 psi	2900 psi	290 psi
LVL	2.0 x 10^6 psi	2600 psi	750 psi	2510 psi	285 psi

CONSTRUCTION OBSERVATION:

1. THE STRUCTURE HAS BEEN DESIGNED TO RESIST THE MINIMUM CODE PRESCRIBED GRAVITY AND LATERAL LOADS. DESIGN IS BASED ON ALL FACETS OF CONSTRUCTION ADHERING TO THE PLANS AND DETAILS AS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD (S.E.R.) STRONGLY RECOMMENDS PERIODIC INSPECTIONS OF CONSTRUCTION PROGRESS TO ENSURE THAT THE GENERAL CONTRACTOR (G.C.) IS FOLLOWING THE PLANS AND DETAILS SPECIFIED BY THE S.E.R. SHOULD THE S.E.R. NOT BE REQUESTED TO INSPECT CONSTRUCTION PROGRESS / CONFORMANCE, THE S.E.R. HEREBY INDEMNIFIES THE S.E.R. AND ALL EMPLOYEES HERETO OF ANY CLAIMS RELATED TO LACK OF CONFORMANCE OF THE DESIGN SPECIFIED BY THE G.C. USE OF PLANS, EITHER BY SUBMISSION FOR PERMIT AND / OR USE AS CONSTRUCTION DOCUMENTS HEREBY CONSTITUTES ACCEPTANCE OF THIS PROVISION SET FORTH BY THE S.E.R. AND EMPLOYEES OF THE S.E.R.

CONTRACTOR'S SUBMITTAL AND DESIGN RESPONSIBILITIES:

1. THE LISTED PROJECT ITEMS BELOW, ASSOCIATED WITH FABRICATION AND ERECTION, SHALL HAVE SHOP DRAWINGS SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. SUBMISSION OF THE SHOP DRAWINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SHOP DRAWING SUBMISSIONS SHALL BE COORDINATED AND SUBMITTED TO ALLOW FOR SUFFICIENT TIME FOR REVIEW (10 WORKING DAYS) AND COMMENT WITHOUT ADVERSLY AFFECTING THE PROJECT SCHEDULE.
   A. CONCRETE REINFORCEMENT.
   B. CONCRETE DESIGN MIX.
   C. MISCELLANEOUS METALS AND METAL PAN STAIRS. (*)
   D. COLD-FORMED METAL FRAMING (C.F.M.F.) (EXTERIOR WALLS ONLY). (*)
   E. STOREFRONT OR CURTAIN WALL (EXTERIOR WALLS ONLY). (*)
   F. MASONRY PRODUCTS & REBAR.
2. THE LISTED ITEMS ABOVE, MARKED WITH (*), REQUIRE STRUCTURAL DESIGN AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE OF CONNECTICUT, TO PERFORM THE DESIGN OF THE MARKED ITEMS. CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW, OTHERWISE THE ITEMS SHALL BE SUBMITTED FOR THE OWNER'S RECORD.
3. THE LISTED PROJECT ITEMS BELOW, ASSOCIATED WITH MEANS AND METHODS OF CONSTRUCTION, ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER OF RECORD WILL NOT REVIEW THE ITEMS LISTED BELOW AND ANY SUBMITTALS CONTAINING THIS INFORMATION SHALL BE RETURNED UNREVIEWED.
   A. UNDERSLAB COORDINATION.
   B. CONCRETE CONSTRUCTION JOINT LAYOUT.
   C. CONCRETE POUR SEQUENCE.
   D. TEMPORARY SHORING. (+)
   E. TEMPORARY LOADS ABOVE 20 PSF. (+)
   F. RAILINGS. (+)
   G. MECHANICAL UNIT CURBS.
   H. MECHANICAL UNIT AND / OR CURB ATTACHMENT. (+)
4. THE LISTED ITEMS ABOVE, MARKED WITH (+), REQUIRE STRUCTURAL DESIGN AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE OF CONNECTICUT, TO PERFORM THE DESIGN OF THE MARKED ITEMS. CALCULATIONS SHALL BE SUBMITTED FOR THE OWNER'S RECORD. THE ENGINEER OF RECORD WILL NOT REVIEW THESE SUBMITTALS AND THEY WILL BE RETURNED UNREVIEWED.

SPECIAL INSPECTIONS:

1. THE OWNER WILL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS FOR WORK SPECIFIED IN CHAPTER 17 OF THE CONNECTICUT STATE BUILDING CODE. THE TESTING AGENCY SHALL BE LICENSED IN THE STATE OF CONNECTICUT AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN THE STATE OF CONNECTICUT.
2. SPECIAL INSPECTIONS ARE REQUIRED, PER CHAPTER 17 OF THE STATE OF CONNECTICUT BUILDING CODE, FOR THE FOLLOWING ITEMS:
   A. CONCRETE CONSTRUCTION
   B. MASONRY CONSTRUCTION
   C. WOOD CONSTRUCTION
   D. SOILS
3. ADDITIONAL SPECIAL INSPECTIONS SHALL BE REQUIRED FOR THE FOLLOWING ITEMS
   A. ARCHITECTURAL COMPONENTS
   B. COLD FORMED STEEL FRAMING
   C. STEEL STAIRS, HANDRAILS, AND GUARDRAIL ASSEMBLIES
4. REFER TO THE STATEMENT OF SPECIAL INSPECTIONS FOR INFORMATION ON THE TESTING REQUIRED FOR EACH ITEM NOTED ABOVE.
5. FAILURE OF QUALITY ASSURANCE TESTING AND INSPECTIONS TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS NOTED, NOR SHALL IT OBLIGATE THE OWNER'S REPRESENTATIVE FOR FINAL ACCEPTANCE.
6. THE TESTING AGENCY AND ITS REPRESENTATIVES ARE NOT AUTHORIZED TO REVOKE, ALTER, RELAX, ENLARGE OR RELEASE ANY PORTION OF THE WORK, PERFORM ANY DUTIES OF THE CONTRACTOR OR BE A PARTY TO SCHEDULING OF WORK.
7. RECORDS OF INSPECTIONS SHALL BE KEPT AVAILABLE TO THE BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND FOR TWO YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT TESTING AGENCY.

SPECIALTY STRUCTURAL ENGINEER NOTES:

1. SPECIALTY STRUCTURAL ENGINEERS (SSE'S) ARE THE SPECIALTY ENGINEERS OF RECORD (SEOR) FOR THEIR SPECIFIC BUILDING SYSTEM, HOWEVER, E2 ENGINEERS IS THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE / ENGINEER OF RECORD (EOR) FOR THE ENTIRE PROJECT AND RESPONSIBLE FOR REVIEWING AND VERIFYING THAT ALL COMPONENTS (INCLUDING THOSE GRANTED DEFERRED APPROVAL) OF THE PROJECT ARE PROPERLY DESIGNED BY APPROPRIATELY LICENSED DESIGN PROFESSIONALS.
2. THE FOLLOWING ITEMS ARE TO BE INCLUDED AS SSE DESIGNS:
   A. COLD FORMED METAL FRAMING
   B. METAL PAN STAIRS
3. ALL SSE'S REQUIRED FOR THE PROJECT SHALL BE REGISTERED PROFESSIONAL ENGINEERS, IN GOOD STANDING, WITH THE STATE OF CONNECTICUT AND SHALL BE ABLE TO DEMONSTRATE PROFICIENCY IN THE FIELD OF STRUCTURAL ENGINEERING AND WITH THE SPECIFIC MATERIALS AND SYSTEMS UNDER THEIR DESIGN PURVIEW.
4. THE SSE SHALL SUBMIT SIGNED AND SEALED DESIGN CALCULATIONS AND SHOP DRAWINGS FOR THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE TO REVIEW. ALL CALCULATIONS SHALL HAVE A BASIS OF DESIGN IN THE FRONT OF THE CALCULATIONS STATING ALL DESIGN ASSUMPTIONS MADE FOR THE ANALYSIS OF THE SYSTEM(S).
5. THE SSE SHALL HAVE ERRORS AND OMISSIONS (E&O) COVERAGE COMMENSURATE WITH THE LEVEL OF E&O COVERAGE REQUIRED BY ALL DESIGN PROFESSIONALS ON THE PROJECT. A CERTIFICATE OF PROOF OF INSURANCE SHALL BE SUBMITTED WITH THE DESIGN CALCULATIONS. FAILURE TO PROVIDE THE CERTIFICATE OF PROOF OF INSURANCE MAY RESULT IN A REJECTED SUBMITTAL.

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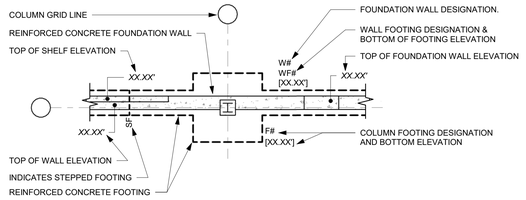
SYMBOLS

XX'-XX"	INDICATES TOP OF FLOOR ELEVATION.
D1	INDICATES SPAN DIRECTION OF 3/4" TONGUE + GROOVE ADVANTECH FLOOR DECKING. DECKING SHALL BE GLUED AND NAILED @ 6" o.c.
D2	INDICATES SPAN DIRECTION OF 5/8" CDX PLYWOOD ROOF DECKING. DECKING SHALL BE NAILED PER TYPICAL DETAILS.
HDR	INDICATES BUILT-UP WOOD HEADER PER HEADER SCHEDULE.
SF	INDICATES FOOTING TO BE STEPPED PER TYPICAL DETAILS.
SJ	INDICATES CONCRETE SAWCUT CONTRACTION JOINT. SEE TYPICAL DETAILS.
	BEAM INDICATED IS DROPPED RELATIVE TO THE SURROUNDING FRAMING. REFER TO TYPICAL SECTIONS.
<MSW#>	INDICATES MASONRY SHEAR WALL PER TYPICAL DETAILS
	INDICATES TEMP. SHORE FOUNDATION WALL UNTIL 1ST FLOOR FRAMING & DECKING IS INSTALLED
	INDICATES STEP DOWN IN DECK FLOOR ELEVATION.

WALL SCHEDULE

GRAPHIC	WALL
	2x(4 OR 6) AT 16"o.c. STUD BEARING WALL
	CMU BEARING WALL
	CMU PARTITION WALL. REFER TO ARCH.
	INTERIOR NON-BEARING PARTITION WALL
	BEARING WALL ABOVE



FOUNDATION LEGEND

SCHEDULE OF DEFORMED BAR REINFORCING FOR MASONRY WALLS

WALL THICKNESS		LENGTH OF WALL	HEIGHT OF WALL*	MINIMUM HORIZONTAL REINFORCING	MINIMUM VERTICAL REINFORCING	REMARKS
EXTERIOR WALLS	6" CMU 8" CMU 10" CMU	NOT LIMITED	UP TO 26'	2 - W 1.7 WIRE @16" o.c.	#5 @ 24" o.c. AND WITHIN 8" OF ENDS OF WALLS	GROUT VOIDS SOLID @ REINFORCING. PROVIDE CONTINUOUS BOND BEAM REINFORCED WITH 1 - #5.
LOAD BEARING SHEAR AND GRAVITY INTERIOR WALLS	8" CMU 10" CMU	NOT LIMITED	UP TO 26'	2 - W 1.7 WIRE @16" o.c.	#5 @ 24" o.c. AND WITHIN 8" OF ENDS OF WALLS	GROUT VOIDS SOLID @ REINFORCING. PROVIDE CONTINUOUS BOND BEAM REINFORCED WITH 1 - #5.
NON-BEARING WALLS	6" CMU	NOT LIMITED	UP TO 16'	2 - W 1.7 WIRE @16" o.c. & WITHIN 16" OF TOP & BOTTOM OF WALL	#4 @ 48" o.c. AND WITHIN 16" OF ENDS OF WALLS	GROUT VOIDS SOLID @ REINFORCING. PROVIDE CONTINUOUS BOND BEAM REINFORCED WITH 1 - #5.
	8" CMU 10" CMU	NOT LIMITED	UP TO 16'	2 - W 1.7 WIRE @16" o.c. & WITHIN 16" OF TOP & BOTTOM OF WALL	#4 @ 48" o.c. AND WITHIN 16" OF ENDS OF WALLS	GROUT VOIDS SOLID @ REINFORCING. PROVIDE CONTINUOUS BOND BEAM REINFORCED WITH 1 - #5.

*INDICATES MAXIMUM DISTANCE FROM FLOOR TO POINT OF SUPPORT ABOVE FLOOR

NOTES:

1. GROUT SHALL BE USED FOR FILLING VOIDS IN MASONRY AT REINFORCING LOCATIONS AND BOND BEAMS. SEE SPECIFICATIONS FOR GROUT PROPORTIONS. LOW LIFT GROUTING PROCEDURES TO BE USED ONLY.
2. PLACE BOND BEAMS IN ALL MASONRY WALLS @ 8'-0" O.C. VERTICAL MAXIMUM. SEE SCHEDULE FOR BOND BEAM REINFORCING. ADDITIONALLY, PROVIDE BOND BEAMS CONNECTED TO EACH FLOOR AND ROOF, AS WELL AS, AT THE TOP OF ALL MASONRY WALLS. THE FLOOR / ROOF AND TOP OF WALL BOND BEAMS SHALL HAVE A MINIMUM OF TWO #5 REBAR UNLESS OTHERWISE INDICATED.
3. ALL REINFORCEMENT TO BE PROPERLY LAPPED (SEE GENERAL NOTES) UNLESS NOTED OTHERWISE ON PLANS AND SECTIONS.
4. PROVIDE HORIZONTAL BARS AT TOP OR BOTTOM OF MASONRY WALL OPENINGS. EXTEND BARS 24" OR 42 BAR DIAMETERS, WHICHEVER IS MORE, PAST OPENING. PROVIDE VERTICAL BARS AT EACH SIDE OF MASONRY WALL OPENING. BARS TO EXTEND THE FULL FLOOR HEIGHT.
5. PROVIDE ADDITIONAL VERTICAL BARS AT CORNERS, WITHIN 8" OF EACH SIDE OF MOVEMENT JOINTS, AND WITHIN 8" OF ENDS OF WALLS.
6. EXTERIOR WALLS ARE ANY WALL WITH WIND EXPOSURE AT ANY POINT ALONG THE HEIGHT OF THE WALL.

BOND BEAM LINTEL SCHEDULE

OPENING SIZE	CMU LINTEL SIZE	DEPTH	REINFORCEMENT	END BEARING
UP TO 4'-0"	8"	8"	(2) #5 BOTTOM UP TO 8" THICK	GROUT (1) ADJACENT CELL MIN & REINF W/ (2) #4 VERT
4' 1" TO 8'-0"	8"	16"	(2) #5 T&B UP TO 8" THICK	GROUT (1) ADJACENT CELL MIN & REINF W/ (2) #4 VERT
8'-1" UP TO 12'-0"	8"	24"	(2) #5 T&B UP TO 8" THICK	GROUT (2) ADJACENT CELL MIN & REINF W/ (4) #4 VERT

NOTES:

1. FOR OPENING WIDTHS GREATER THAN SHOWN, CONSULT STRUCTURAL ENGINEER.
2. SEE ARCH. DRAWINGS FOR FLASHING DETAILS @ WINDOW & DOOR OPENINGS.
3. ** INDICATES CONCRETE BEAM W/ f'c = 4000 PSI.
4. END BEARING APPLIES TO EXTERIOR WALL SUBJECT TO EXTERIOR WIND PRESSURES.

WOOD HEADER SCHEDULE

SPAN CONDITION	HEADER SIZE	JACK STUDS	KING STUDS
UP TO 4'-0"	(2) 2X8	1	1
4'-0" UP TO 6'-0"	(2) 2X12	1	1
6'-0" UP TO 8'-0"	(2) 1 3/4"X9 1/4" LVL	2	1

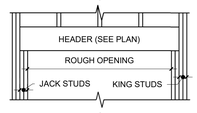
NOTES:

1. WOOD HEADER SCHEDULE IS FOR WHEN DOOR / WINDOW HEADER SIZES ARE NOT SHOWN ON THE PLANS.
2. USE PLYWOOD SHIMS BETWEEN HEADERS TO MATCH WALL WIDTH.
3. CONSULT STRUCTURAL ENGINEER IF HEADER SIZE IS NOT SHOWN ON PLANS AND THE SPAN IS LARGER THAN INDICATED HERE.

WHEN POST SIZES ARE SHOWN ON PLAN @ HDR BEARING LOC, POSTS INDICATED ARE JACK POSTS. KING POSTS SHALL FOLLOW THE REQ'S OF THE HDR SCHEDULE.

HDR (SEE SCHED.) OR HDR SIZE

HEADERS ON PLAN



TYPICAL HEADER BEARING DETAIL

Project Title:
New Animal Facility at:
Montville Animal Shelter
255 Maple Ave.
Montville, CT

ez engineers structural engineers
NEW LONDON, CT CONCORD, MA
New London: 860 437 3259
Concord: 978 294 8806

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Revision:	Description:	Date:	Revised By:

Drawing Title:
STRUCTURAL NOTES

Date: 09.29.2023
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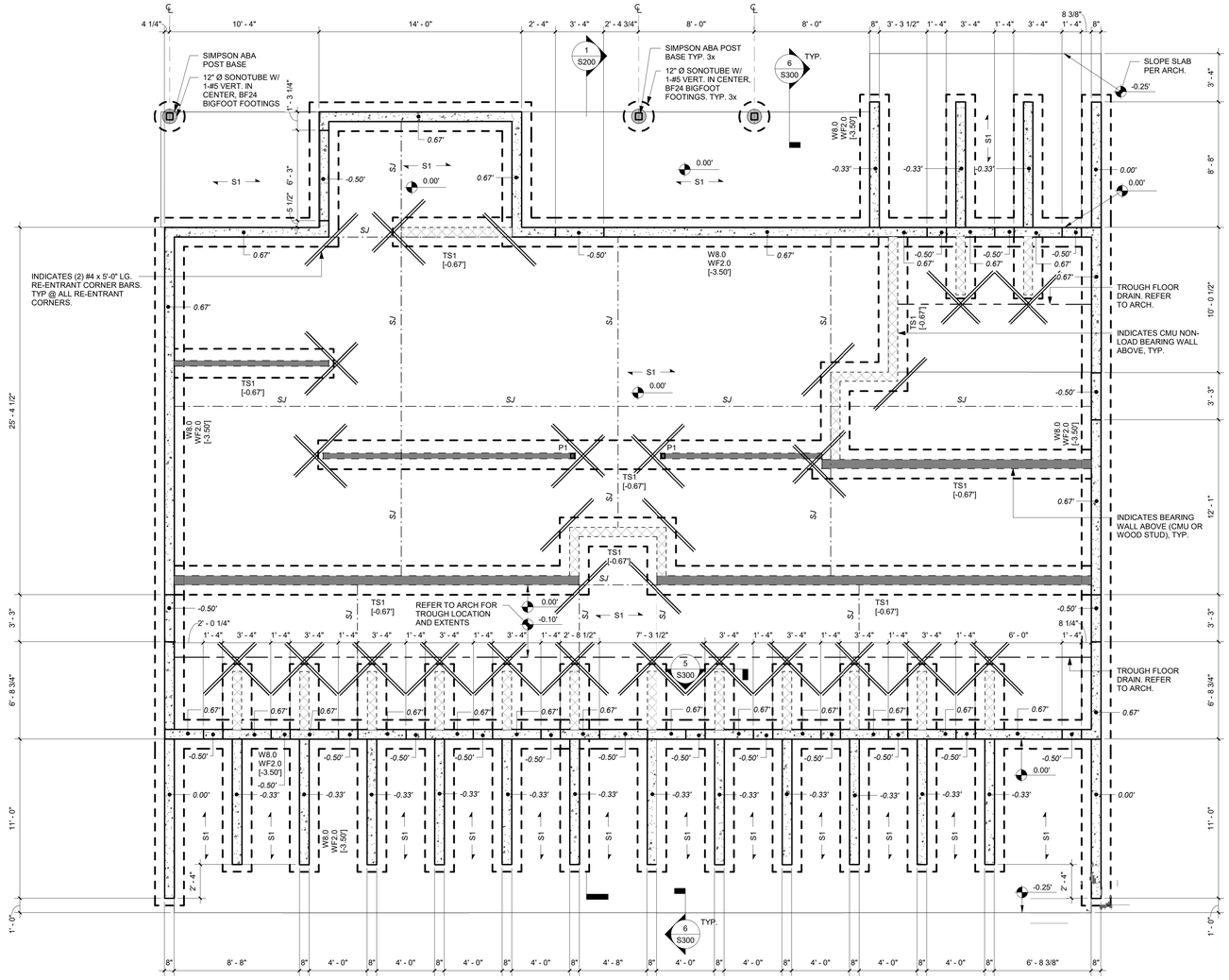
Drawn By: GKS
Project Number: 23078

Drawing Number:
S002



1 S100 FOUNDATION PLAN

1/4" = 1'-0"

FOUNDATION PLAN NOTES:

1. S1 INDICATES 4" SLAB-ON-GRADE WITH NORMAL-WEIGHT CONCRETE, REINFORCED WITH 6x6-W2.1xW2.1 W.W.F., UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS AND SPECIFICATIONS FOR SLAB CONSTRUCTION, INCLUDING PROPERLY PREPARED SOILS. REFER TO ARCHITECTURAL DRAWINGS REGARDING ADDITIONAL BELOW SLAB MATERIALS SUCH AS VAPOR BARRIERS AND / RIGID INSULATION.
2. XX.XX' INDICATES TOP OF CONCRETE SLAB ELEVATION. THE TYPICAL TOP OF CONCRETE SLAB ELEVATION SHALL BE XX.XX', UNLESS NOTED OTHERWISE.
3. SEE THE FOUNDATION LEGEND, ON TYPICAL DETAIL SHEET, FOR INFORMATION TO UNDERSTAND THE INTENDED FOUNDATION SIZES, BOTTOM OF FOOTING ELEVATIONS, AND TOP OF WALL / SHELF / PIER ELEVATIONS.
4. BOTTOM OF FOOTING SHALL BE A MINIMUM OF 3'-6" BELOW FINISHED GRADE FOR FROST PROTECTION.
5. SEE GENERAL NOTE SHEET FOR ADDITIONAL INFORMATION.
6. COORDINATE ALL DIMENSIONS, ELEVATIONS, DOOR & WINDOW LOCATIONS W/ ARCH. DRAWINGS AND / OR EXISTING CONDITIONS.
7. COORDINATE ALL WALL PENETRATIONS / SLEEVES, UNDERSLAB UTILITIES, AND MECHANICAL CHASES W/ APPLICABLE TRADES. COORDINATE LOCATION OF WALL FOOTING BREAKS / STEPS FOR ALL UTILITIES WITH SITE / CIVIL DRAWINGS.
8. COORDINATE WITH ARCH. & MEP DRAWINGS FOR ALL SLAB PENETRATION SIZES AND LOCATIONS, HOUSEKEEPING PAD SIZES AND LOCATIONS, AND LOCATIONS OF UNDERSLAB RADON PITS.
9. G.C. TO PERFORM MOISTURE TESTING ON ALL INTERIOR SLAB ON GRADE PRIOR TO FLOORING PLACEMENT. COORDINATE MOISTURE LEVEL WITH FLOORING REQUIREMENTS.

FOUNDATION WALL SCHEDULE

W#	WIDTH	EXT SHELF WIDTH	INT SHELF WIDTH	REINFORCEMENT
W8.0	0' - 8"	N/A	N/A	#5 @ 16" OC VERT. & HORIZ.

STRIP FOOTING SCHEDULE

WF#	WIDTH	THICKNESS	REINFORCEMENT
WF2.0	2' - 0"	12"	2-#5 CONT. BTM.

THICKENED SLAB SCHEDULE

WF#	WIDTH	THICKNESS	REINFORCEMENT
TS1	2' - 0"	8"	SEE THICKENED SLAB DETAIL

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Drawing Title: FOUNDATION PLAN

Date: 09.29.2023
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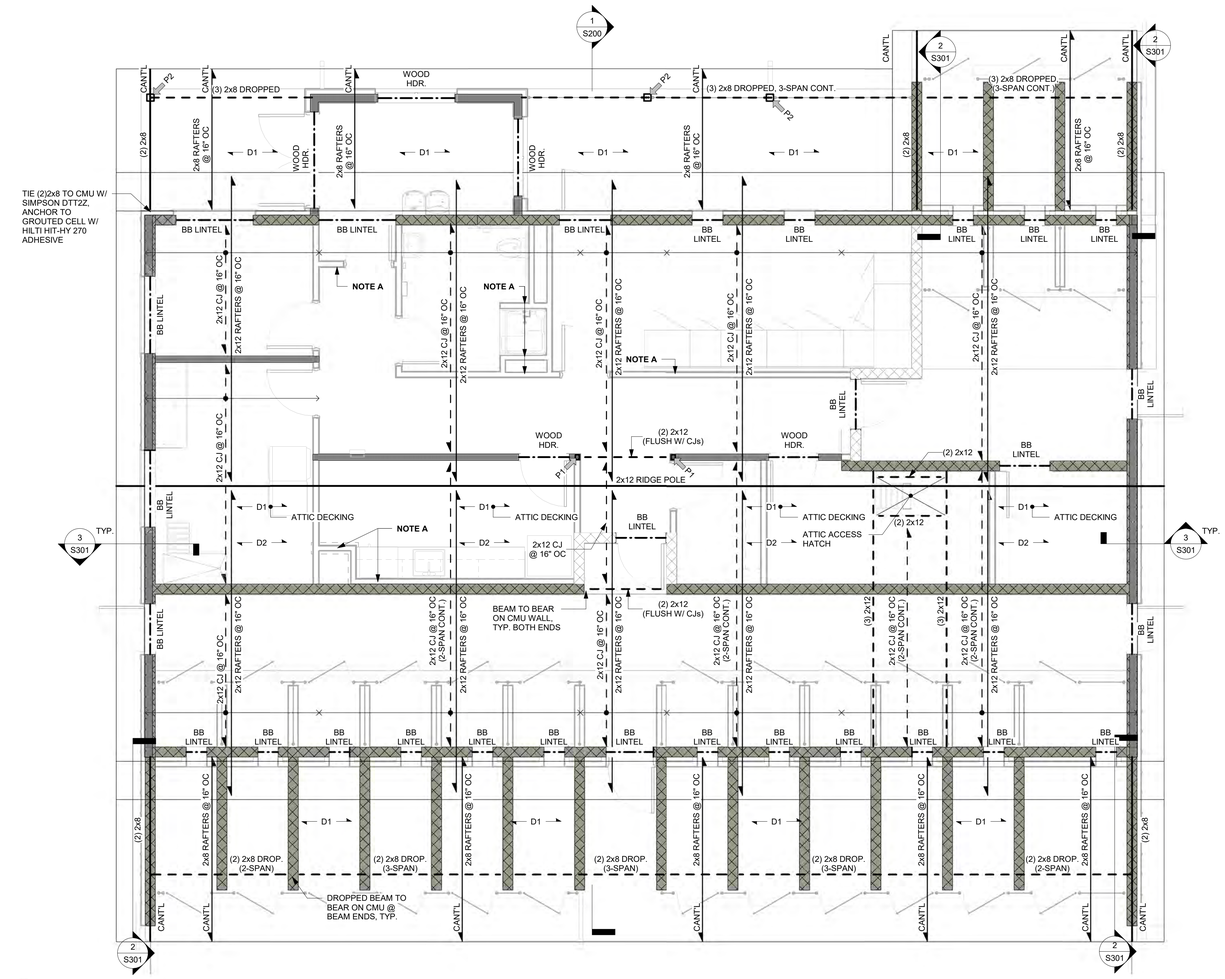
Drawn By: GKS
Project Number: 23078
Drawing Number: S100



1 S101 ROOF FRAMING PLAN

1/4" = 1'-0"

NOTE A

PARTITION WALLS THAT RUN PERPENDICULAR TO CEILING JOIST FRAMING ABOVE SHALL HAVE A 3/4" GAP FROM WALL TOP PLATE TO BOTT OF CEILING JOIST. FASTEN WALL TOP PLATE TO BOTT OF CEILING JOIST WITH SIMPSON SDPW14312 DEFLECTOR SCREWS, TYP. @ ALTERNATING JOIST LOCATIONS.

WOOD ROOF FRAMING PLAN NOTES:

1. ALL ROOF RAFTERS SHALL HAVE A SIMPSON H2.5A HURRICANE TIE AT EACH TOP PLATE EAVE CONNECTION EACH SIDE OF TRUSS (2 PER TRUSS) UNLESS NOTED OTHERWISE.
2. ALL 2x4 STUD BEARING WALLS SHALL BE FRAMED WITH 2x4 D.F.NORTH #2 STUDS @ 12" oc. ALL STUD BEARING WALLS SHALL BE SHEATHED WITH 1/2" CDX PLYWOOD AND NAILED AT 12" oc.
3. PROVIDE BLOCKING BETWEEN RAFTERS AT SHEATHING EDGE PER TYPICAL DETAILS.
4. COORDINATE WALL TOP PLATE HEIGHTS WITH ARCHITECTURAL DRAWINGS.
5. SEE ARCHITECTURAL DRAWINGS FOR ROOF LIMITS AND OVERHANG DETAILS.
6. G.C. SHALL PROVIDE AND SUBMIT MASONRY WALL CONTROL JOINT PLAN FOR REVIEW AND APPROVAL.
7. SEE GENERAL NOTE SHEET FOR ADDITIONAL INFORMATION.
8. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS AND / OR EXISTING CONDITIONS.
9. COORDINATE ALL ROOF PENETRATIONS, UTILITIES AND MECHANICAL CHASES WITH APPLICABLE TRADES
10. ALL NAILING SHALL BE FASTENED IN ACCORDANCE WITH TABLE 2304.10.1 OF THE 2018 INTERNATIONAL BUILDING CODE.

WOOD POST SCHEDULE

P#	POST TYPE
P1	(2) 2x4
P2	6x6 P.T.

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Montville, CT

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Revision:	Description:	Date:	Revised By:

Drawing Title: ROOF FRAMING PLAN

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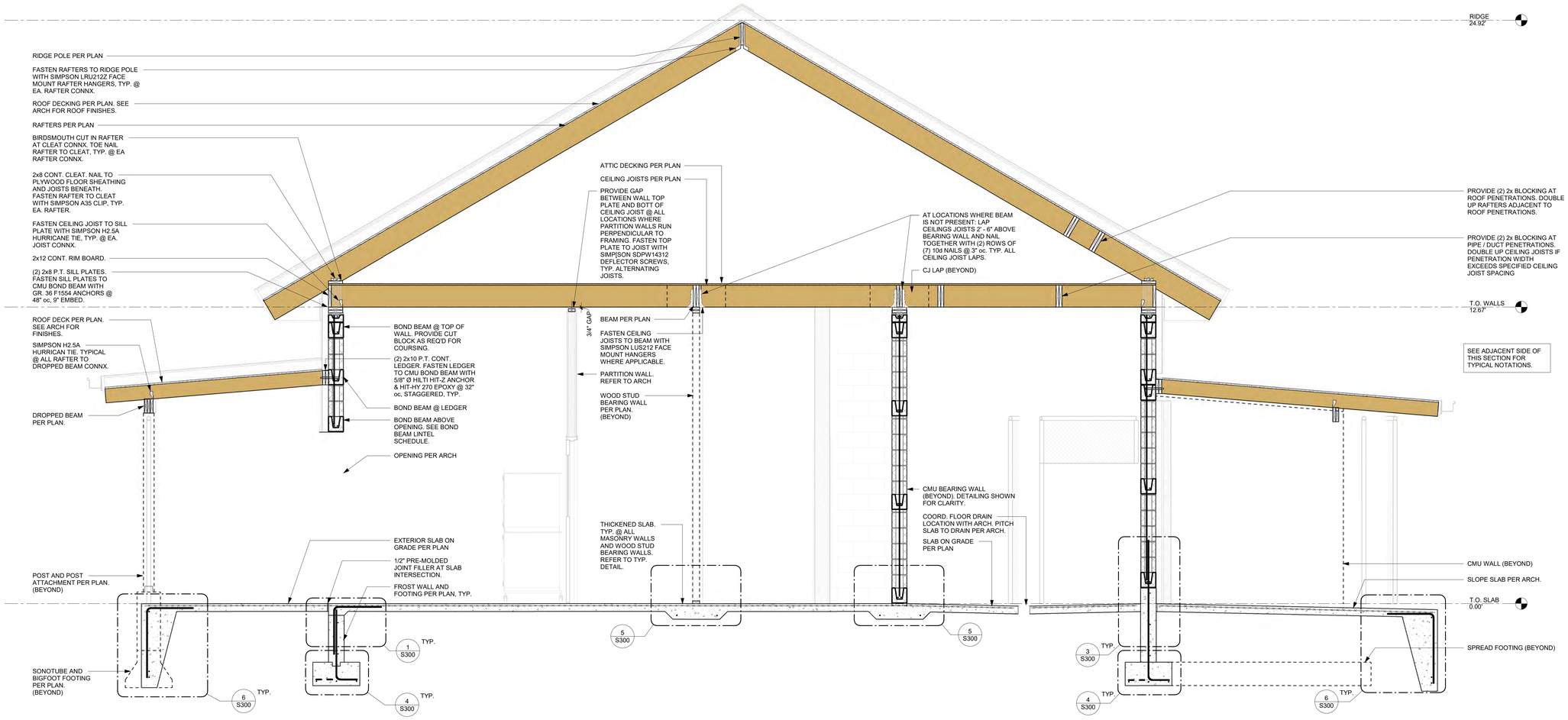
Drawn By: GKS
Project Number: 23078

Drawing Number: S101



1 S200 TYPICAL BUILDING SECTION

1/2" = 1'-0"

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255 Maple Ave.
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STRUCTURAL SECTIONS

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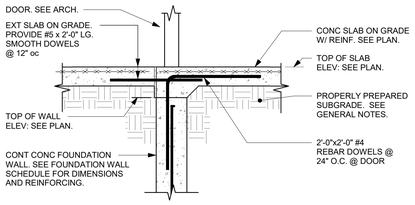
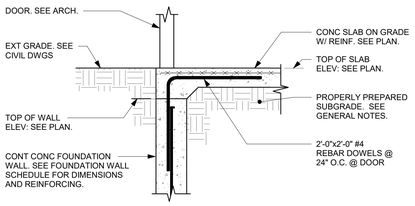


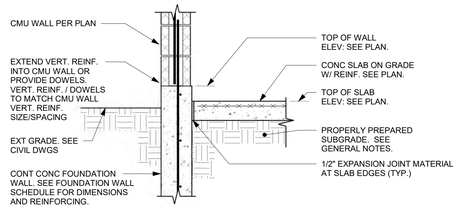
1 S300 TYPICAL FOUNDATION WALL AT DOORS W/ EXT. SLAB

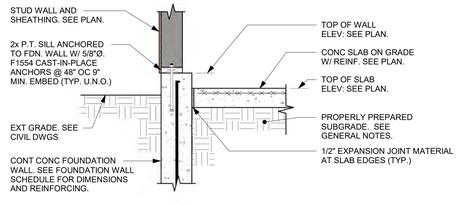
3/4" = 1'-0"



2 S300 TYPICAL FOUNDATION WALL AT DOORS

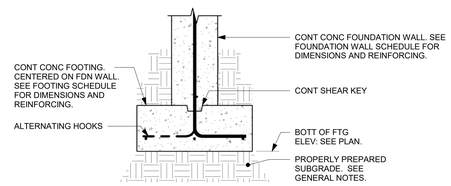
3/4" = 1'-0"





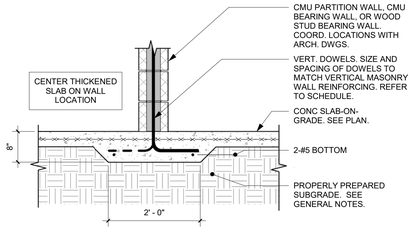
3 S300 TYPICAL FOUNDATION WALL WITH FLAT TOP

3/4" = 1'-0"



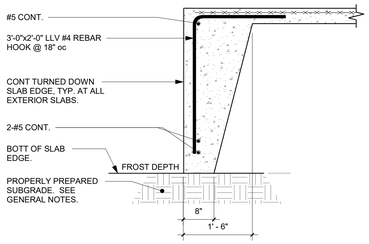
4 S300 TYPICAL FOOTING DETAIL AT FROST WALL

3/4" = 1'-0"



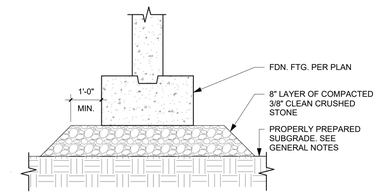
5 S300 THICKENED SLAB DETAIL

3/4" = 1'-0"



6 S300 TYPICAL TURNED DOWN SLAB EDGE DETAIL

3/4" = 1'-0"



ALL FTGS. SHALL BE CONSTRUCTED IN THE ABOVE MANNER UNLESS OTHERWISE NOTED ON THE PLANS.

FOOTING SUBGRADE NOTES:

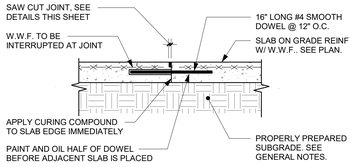
1. REMOVE EXISTING FILL AND SILT BELOW FOUNDATION AREAS WITHIN 1'-0" OF FOOTING EDGES AND OUTWARD AT A 1H:1V SLOPE TO THE TOP OF PROPERLY PREPARED SUBGRADE, REPLACE WITH CLEAN CRUSHED STONE PER DETAIL, UNLESS NOTED OTHERWISE BY THE FORTHCOMING GEOTECHINCAL REPORT.
2. FOOTING SOIL SUBGRADES SHALL BE EXCAVATED LEVEL.
3. SOFT AREAS SHALL BE OVER-EXCAVATED AND REPLACED WITH ADDITIONAL CLEAN CRUSHED STONE. EXTENT OF SOFT AREA EXCAVATION SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER.
4. STEPS SHALL BE TAKEN BY THE CONTRACTOR TO CONTROL SURFACE-WATER RUNOFF AND TO REMOVE WATER AND PRECIPITATION FROM PREPARED SUBGRADES.
5. REFER TO FOUNDATION NOTES ON THE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION.

7 S300 TYPICAL FOOTING SUBGRADE DETAIL

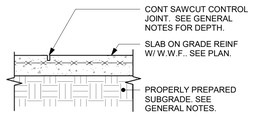
1" = 1'-0"

ALL SLABS SHALL BE CONSTRUCTED IN THE ABOVE MANNER UNLESS OTHERWISE NOTED ON THE PLANS.

TYPICAL SLAB ON GRADE CONSTRUCTION



TYPICAL SLAB ON GRADE CONSTRUCTION JOINT



ALL SAWCUT JOINTS SHALL BE MADE WITHIN 8 HOURS OF CONCRETE PLACEMENT. FILL WITH JOINT SEALANT.

TYPICAL SLAB ON GRADE CONTROL JOINT

NOTES:

1. GROUND FLOOR SLABS SHALL BE PLACED BY THE ALTERNATING STRIP-CAST METHOD. A MINIMUM OF FIVE DAYS SHALL ELAPSE PRIOR TO PLACEMENT OF ADJACENT CONCRETE STRIPS.
2. FOR INFORMATION NOT SHOWN REFER TO TYPICAL SLAB ON GRADE CONSTRUCTION DETAIL.
3. WHERE SLABS ARE OF UNEQUAL THICKNESS, HAUNCH THINNER SLAB TO MATCH THICKER SLAB.
4. WHERE CASTING NEW SLAB AGAINST AN EXISTING SLAB, DRILL & SET REBAR DOWELS SHOWN INTO EXG. SLAB W/ POST INSTALLED ADHESIVE ANCHORS.

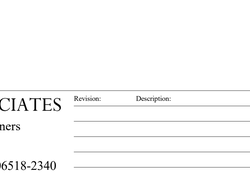
SLAB ON GRADE SUBGRADE PREPARATION NOTES:

1. REMOVE EXISTING FILL AND SILT BELOW SLABS ON GRADE TO THE TOP OF PROPERLY PREPARED SUBGRADE. REPLACE WITH CLEAN CRUSHED STONE PER DETAIL, UNLESS NOTED OTHERWISE BY THE FORTHCOMING GEOTECHINCAL REPORT
2. SLAB ON GRADE SOIL SUBGRADES SHALL BE EXCAVATED LEVEL.
3. SOFT AREAS SHALL BE OVER-EXCAVATED AND REPLACED WITH ADDITIONAL CLEAN CRUSHED STONE. EXTENT OF SOFT AREA EXCAVATION SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER.
4. STEPS SHALL BE TAKEN BY THE CONTRACTOR TO CONTROL SURFACE-WATER RUNOFF AND TO REMOVE WATER AND PRECIPITATION FROM PREPARED SUBGRADES.
5. REFER TO FOUNDATION NOTES ON THE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION.

8 S300 TYPICAL SLAB ON GRADE DETAILS

1" = 1'-0"

TYPICAL MASONRY OPENING JAMB DETAIL WITH LOOSE LINTEL OR STEEL BEAM HEADER



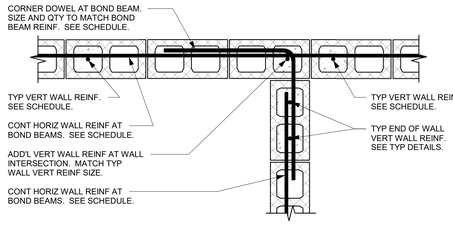
TYPICAL MASONRY OPENING JAMB DETAIL WITH BOND BEAM HEADER

TYPICAL END OF WALL DETAIL

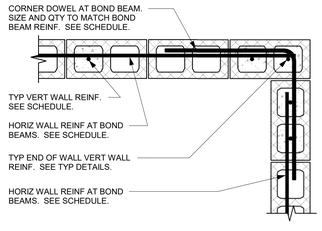
TYPICAL WALL REINFORCING DETAIL

TYPICAL MASONRY OPENING JAMB DETAIL

TYPICAL END OF WALL DETAIL



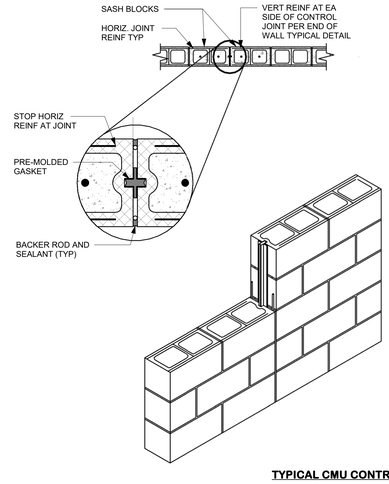
TYPICAL INTERSECTING WALL REINFORCING DETAIL AT BOND BEAMS



TYPICAL WALL CORNER REINFORCING DETAIL AT BOND BEAMS

9 S300 TYPICAL CMU WALL REINFORCING

1" = 1'-0"



NOTES:

1. PROVIDE VERTICAL CONTROL JOINTS IN THE CONCRTE MASORY UNIT PORTION OF ALL WALLS AND PARTITIONS AS FOLLOWS:
   - A. WHEN WALL LENGTH EXCEEDS 20 FEET. COORDINATE WITH ARCHITECTURAL. DRAWINGS.
   - B. AT JUNCTIONS OF BEARING & NON-BEARING WALLS, CHANGES IN HEIGHT OR THICKNESS, AT JUNCTIONS OF WALLS WITH COLUMNS & PIERS, AND INTERSECTING WALLS.
   - C. AT RETURN ANGLES OF "L", "I", "U" SHAPED CONSTRUCTION.
   - D. AT CHASES & RECESSES FOR PIPING OR FIXTURES.
   - E. AT ONE SIDE OF WALL OPENINGS LESS THAN 6' - 0". AT BOTH SIDES OF OPENINGS OVER 6' - 0" WIDE.
   - F. CONTROL JOINTS MAY BE BEST LOCATED AT THE ENDS OF LINTELS OVER DOOR OPENINGS AND EXTEND UP FOR THE REMAINDER OF THE WALL HEIGHT.
2. CONTROL JOINTS TO EXTEND THROUGH ENTIRE WALL THICKNESS & FOR FULL WALL HEIGHT.
3. SUBMIT CONTROL JOINT LOCATIONS AS A SHOP DRAWING SUBMITTAL.
4. BOND BEAM HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINT. HORIZONTAL JOINT REINFORCING SHALL NOT CROSS OVER CONTROL JOINT.
5. VERTICAL REINFORCING BARS TO BE PLACED IN INDIVIDUAL CELLS AS SHOWN.

TYPICAL CMU CONTROL JOINT DETAIL

10 S300 TYPICAL CONTROL JOINT DETAIL

1/2" = 1'-0"

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STRUCTURAL DETAILS

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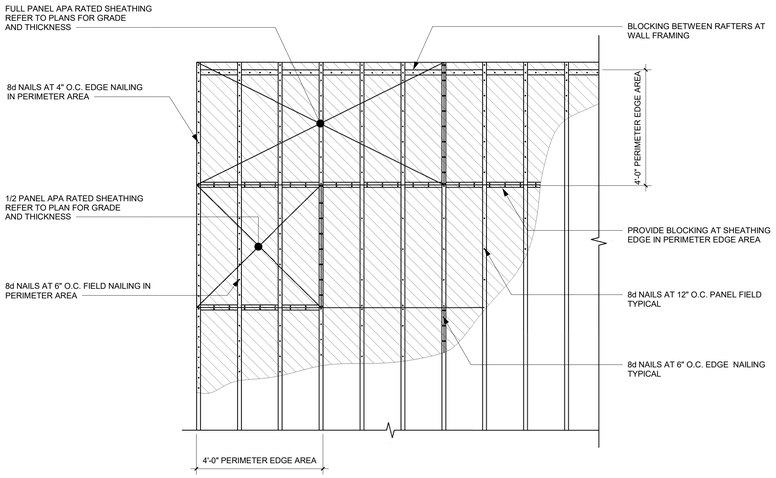
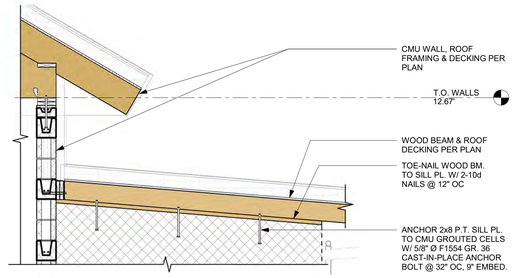
Project Number: 23078

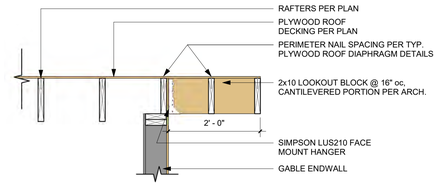
Drawing Number:
S300



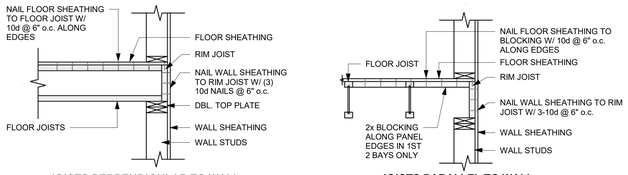
1 S301 TYPICAL PLYWOOD ROOF DIAPHRAGM
1/2" = 1'-0"



2 S301 T.O. EXT. CMU DETAIL
1/2" = 1'-0"



3 S301 ROOF RAKE OVERHANG DETAIL
3/4" = 1'-0"



4 S301 TYPICAL FLOOR DIAPHRAGM DETAIL
3/4" = 1'-0"

Project Title:
New Animal Facility at:
Montville Animal Shelter
255 Maple Ave.
Montville, CT

ez engineers
structural engineers
NEW LONDON, CT CONCORD, MA
New London: 860 437 3259
Concord: 978 294 8806

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

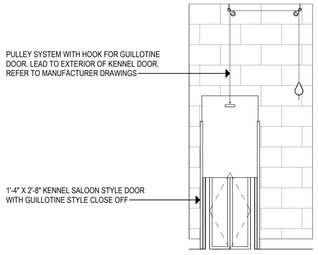
Revision:	Description:	Date:	Revised By:

Drawing Title:
STRUCTURAL DETAILS

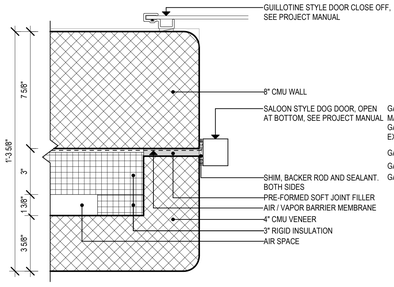
Date: 09.29.2023
Scale: As indicated
Drawn By: GKS
Project Number: 23078

Drawing Number:
S301

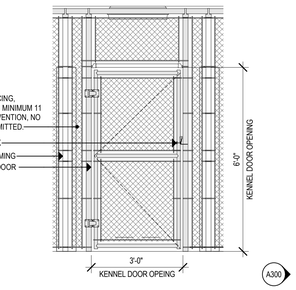
APPROVED BY THE MONTVILLE PLANNING & ZONING COMMISSION ON _____
BY: _____
CHAINMAN, VICE CHAIRMAN, SECRETARY
DATE: _____
EXPIRATION DATE: _____
APPROVAL OF THIS SITE PLAN BY THE COMMISSION SHALL MEAN CERTIFICATION OF THE EROSION AND SEDIMENT CONTROL PLAN.



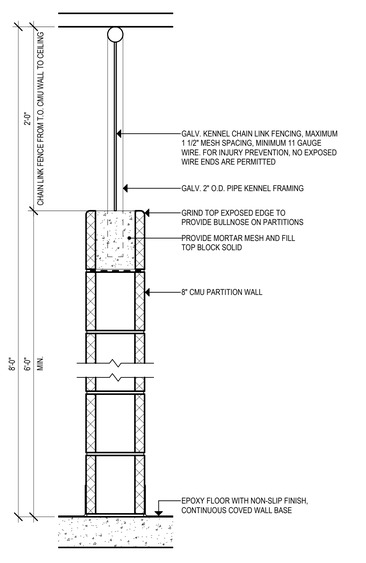
4 TYPICAL KENNEL DOG DOOR ELEVATION
1/2" = 1'-0"



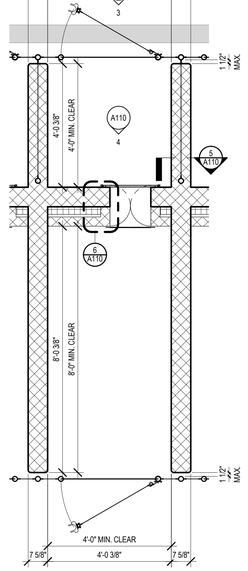
6 TYPICAL KENNEL DOG DOOR JAMB
3" = 1'-0"



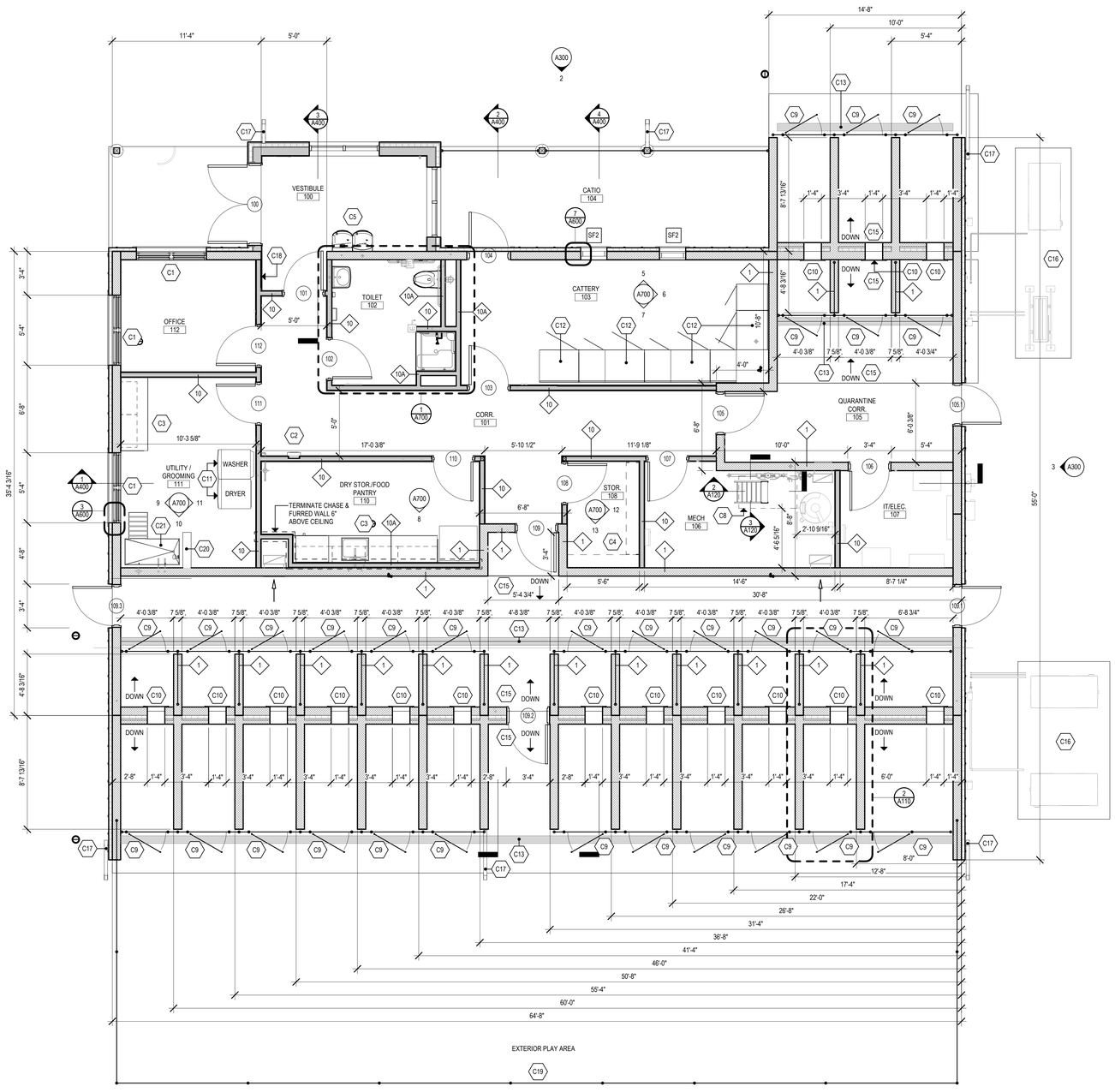
3 TYPICAL KENNEL DOOR ELEVATION
1/2" = 1'-0"



5 KENNEL PARTITION WALL SECTION
1 1/2" = 1'-0"



2 TYPICAL KENNEL LAYOUT
1/2" = 1'-0"



1 MAIN LEVEL FLOOR PLAN
1/4" = 1'-0"

SYMBOL LEGEND

- NEW METAL STUD PARTITIONS
- NEW MASONRY WALL
- NEW CMU WALL
- 101 / A — DOOR NUMBER
- 1i — WINDOW TYPE
- OFFICE / ### — ROOM NAME / ROOM NUMBER
- E3.0 — PARTITION TYPE
- X — CONSTRUCTION NOTE
- 2 / A101 — EXTERIOR ELEVATION NUMBER / SHEET NUMBER
- 2 / A101 — INTERIOR ELEVATION NUMBER / SHEET NUMBER
- 2 / A101 — BUILDING SECTION NUMBER / SHEET NUMBER
- 2 / A101 — WALL SECTION NUMBER / SHEET NUMBER
- F.E.C. — FIRE EXTINGUISHER CABINET
- FD — FLOOR DRAIN - SLOPE TO DRAIN
- H.D.F. — HANDICAPPED DRINKING FOUNTAIN

GENERAL NOTES

1. READ ALL GENERAL NOTES ON DRAWING G000.
2. CONTRACTORS SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS.
3. PATCH TO MATCH ALL EXISTING WALLS AND CEILINGS TO REMAIN AFFECTED BY NEW WORK.
4. ALL DIMENSIONS ARE TO OUTSIDE FACE OF BRICK, CONCRETE MASONRY UNITS AND FINISH FACE OF WALL OTHERWISE NOTED.
5. ALL NEW WALL AND PARTITION ASSEMBLIES SHALL EXTEND TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED.
6. PROVIDE CMU WITH PRE-MANUFACTURED BULLNOSE AT ALL EXPOSED CORNERS.
7. WHERE THE WORD "ALIGN" IS INDICATED IT SHALL MEAN TO ALIGN BOTH SIDES OF WALL.

CONSTRUCTION NOTES

C1	PROVIDE ROOM-DARKENING HORIZONTAL BLIND SYSTEM FOR EACH HALF OF WINDOW ASSEMBLY. SEE PROJECT MANUAL
C2	PROVIDE FIRE EXTINGUISHER AND SEMI-RECESSED CABINET. SET BOTTOM OF CABINET AT 32" A.F.F. SEE PROJECT MANUAL.
C3	PROVIDE CABINETS, CASEWORK, COUNTERS AND FIXTURES. SEE INTERIOR ELEVATIONS, SEE ALSO PROJECT MANUAL.
C4	PROVIDE SHELVES WITH REQUIRED BRACKETS AND ASSOCIATED HARDWARE. SEE INTERIOR ELEVATIONS, SEE ALSO PROJECT MANUAL.
C5	PROVIDE "HIGH-LOW" DOUBLE WATER COOLER UNIT WITH BOTTLE FILLER AT LOW ONE. SEE ALSO MEP DRAWINGS.
C6	PROVIDE FIRE EXTUNGUISHER SURFACE MOUNTED TO STUD. SET BOTTOM OF FIRE EXTINGUISHER 32" A.F.F. SEE PROJECT MANUAL
C8	PROVIDE COMMERIAL ATTIC LADDER WITH BOX ENCLOSURE BETWEEN CEILING AND ATTIC PLATFORM. SEE PROJECT MANUAL.
C9	PROVIDE GALV. CHAIN LINK KENNEL CAGE AND DOOR, 1 1/2" MAXIMUM WIRE MESH, 11 GAUGE MINIMUM.SEE PROJECT MANUAL.
C10	PROVIDE 13 3/8" X 31 3/8" SALOON STYLE DOG DOOR WITH GUILLOTINE STYLE CLOSE-OFF. SEE PROJECT MANUAL.
C11	LAUNDRY MACHINE AND DRYER, PROVIDED BY OWNER.
C12	CAT CONDO WITH ATTACHED LITTER BOX ROOM, PROVIDED BY OWNER.
C13	TRENCH DRAIN, SEE PLUMBING DRAWINGS.
C14	PROVIDE GATED HANDRAIL FOR ATTIC LADDER, SEE PROJECT MANUAL.
C15	FROM DOWN ARROW, SLOPE SLAB TOWARDS TRENCH DRAIN @ 1/4" PER 12"
C16	MEP EQUIPMENT ON EXTERIOR SLABS, REFER TO CIVIL AND MEP DRAWINGS.
C17	METAL BOX GUTTER AND DOWN SPOUT. CONNECT DOWNSPOUT INTO UNDERGROUND DRAINAGE VIA CAST IRON BOOT. SEE CIVIL DRAWINGS.
C18	PROVIDE ADDITIONAL LAYER OF 5/8" GYPSUM WALL BOARD AT SPECIFIED WALL LOCATION. ADDITIONAL LAYER IS REQUIRED TO PROVIDE FLUSH SURFACE BETWEEN GYPSUM WALLS.
C19	PROVIDE EXTERIOR GALV. CHAIN LINK FENCE ENCLOSURE, 6' HIGH. 1 1/2" MAXIMUM WIRE MESH, 11 GAUGE MINIMUM. SEE CIVIL DRAWINGS
C20	8" CMU WALL BUILT UP TO 4'. PROVIDE MORTAR MESH AND FILL TOP COURSE SOLID. GRIND TOP EDGE IN FIELD TO MATCH BULLNOSE. USE BLOCK CAVITIES AS CHASE FOR DOG GROOMING STATION.
C21	ALTERNATE: PROVIDE STAINLESS STEEL DOG GROOMING STATION.

Project Title:
New Animal Facility at:
Montville Animal Shelter
225 Maple Ave. Parcel ID: 077-041-000
Montville, CT

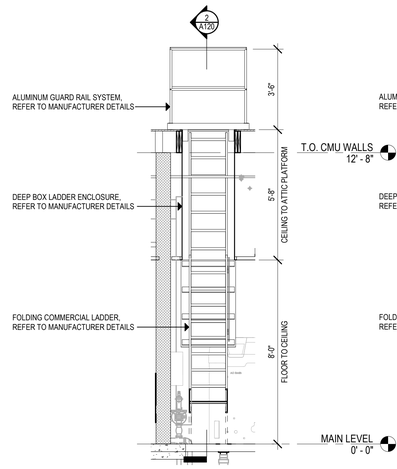
SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:

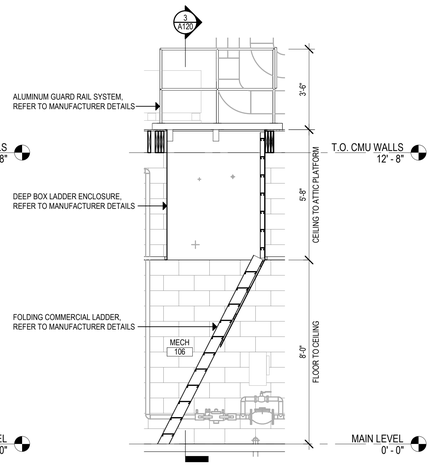
Drawing Title: FLOOR PLANS

Date: 09/29/2023
Scale: As indicated
Drawn By: MES
Project Number: 22.130

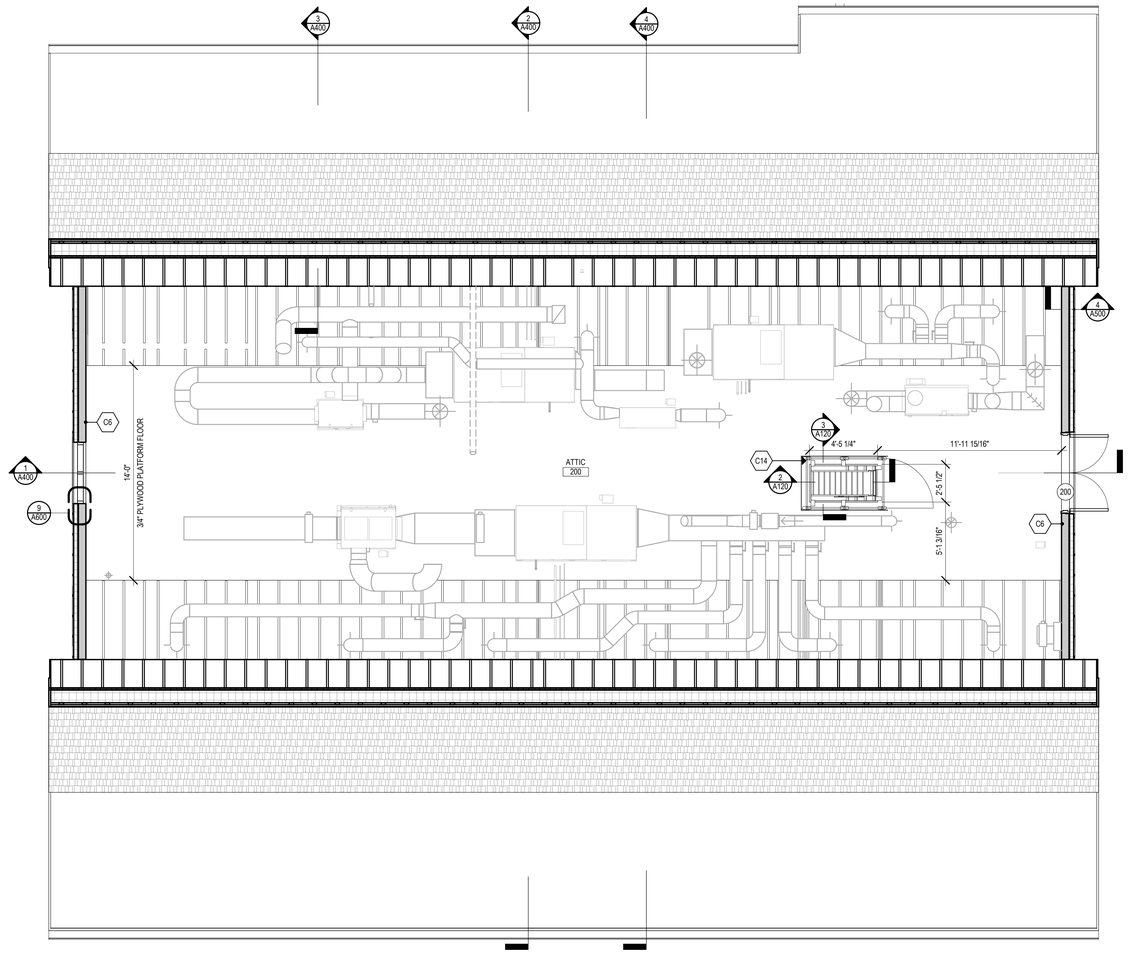
Drawing Number: A110



3 FOLDING LADDER SECTION
3/8" = 1'-0"



2 FOLDING LADDER SECTION
3/8" = 1'-0"



1 ATTIC FLOOR PLAN
1/4" = 1'-0"

SYMBOL LEGEND

- NEW METAL STUD PARTITIONS
- NEW MASONRY WALL
- NEW CMU WALL
- 101 / A - DOOR NUMBER
- 1| - WINDOW TYPE
- OFFICE / ### - ROOM NAME / ROOM NUMBER
- E3.0 - PARTITION TYPE
- X - CONSTRUCTION NOTE
- 2 / A101 - EXTERIOR ELEVATION NUMBER / SHEET NUMBER
- 2 / A101 - INTERIOR ELEVATION NUMBER / SHEET NUMBER
- 2 / A101 - BUILDING SECTION NUMBER / SHEET NUMBER
- 2 / A101 - WALL SECTION NUMBER / SHEET NUMBER
- F.E.C. - FIRE EXTINGUISHER CABINET
- FD - FLOOR DRAIN - SLOPE TO DRAIN
- H.D.F. - HANDICAPPED DRINKING FOUNTAIN

GENERAL NOTES

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CONSTRUCTION NOTES

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C9	PROVIDE GALV. CHAIN LINK KENNEL CAGE AND DOOR, 1 1/2" MAXIMUM WIRE MESH, 11 GAUGE MINUMUM. PROVIDE 2-BOWL TURN STYLE IN DOOR. SEE PROJECT MANUAL.
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Project Title:
New Animal Facility at:
Montville Animal Shelter
225 Maple Ave.
Montville, CT

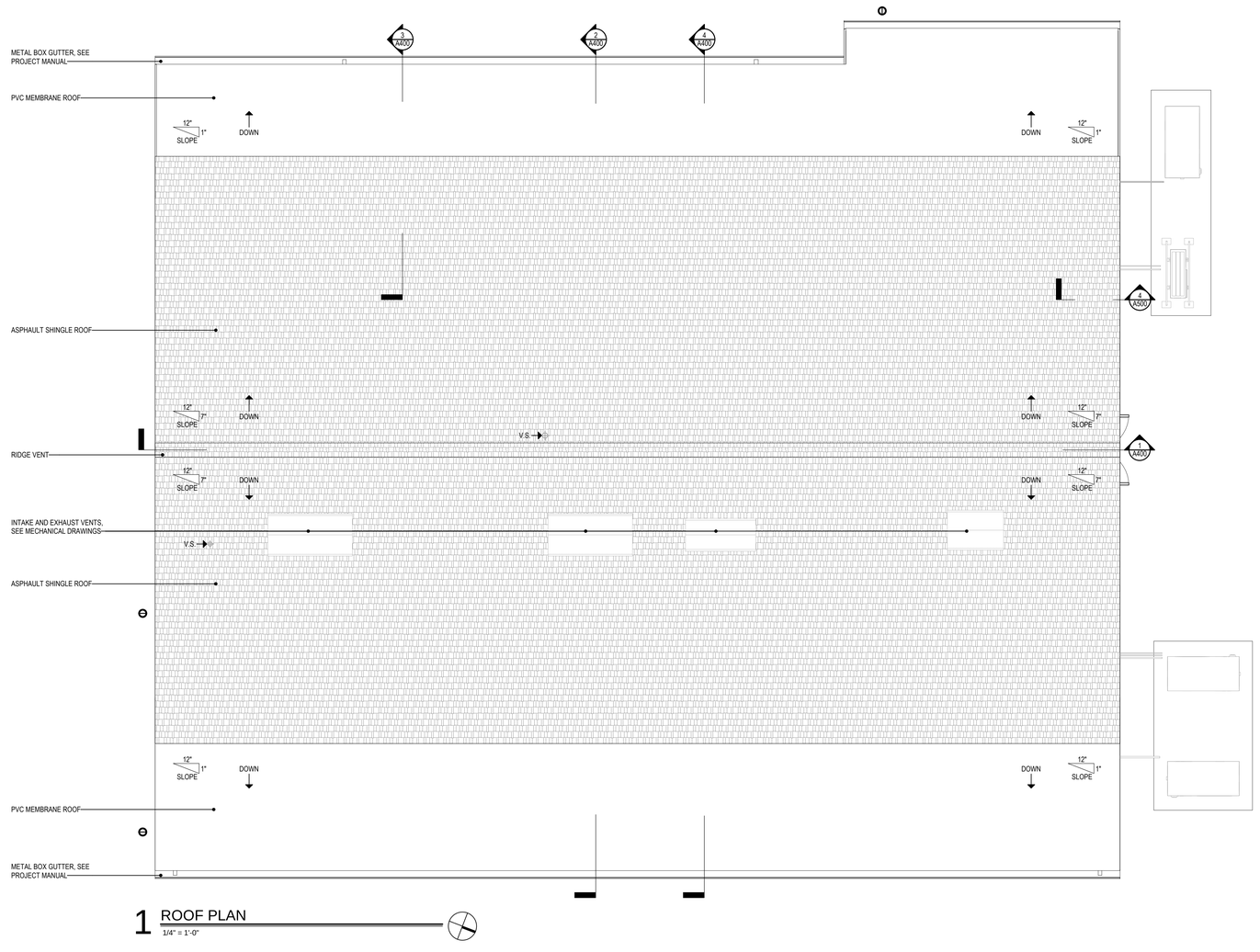
SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:

Drawing Title: ATTIC PLAN

Date: 09/29/2023
Scale: As indicated
Drawn By: MES
Project Number: 22.130

Drawing Number: A120



1 ROOF PLAN
1/4" = 1'-0"

SYMBOL LEGEND

- NEW METAL STUD PARTITIONS
- NEW MASONRY WALL
- NEW CMU WALL
- 101 / A - DOOR NUMBER
- 1i - WINDOW TYPE
- OFFICE / ### - ROOM NAME / ROOM NUMBER
- E3.0 - PARTITION TYPE
- X - CONSTRUCTION NOTE
- 2 / A101 - EXTERIOR ELEVATION NUMBER / SHEET NUMBER
- 2 / A101 - INTERIOR ELEVATION NUMBER / SHEET NUMBER
- 2 / A101 - BUILDING SECTION NUMBER / SHEET NUMBER
- 2 / A101 - WALL SECTION NUMBER / SHEET NUMBER
- F.E.C. - FIRE EXTINGUISHER CABINET
- FD - FLOOR DRAIN - SLOPE TO DRAIN
- H.D.F. - HANDICAPPED DRINKING FOUNTAIN

GENERAL NOTES

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6. PROVIDE CMU WITH PRE-MANUFACTURED BULLNOSE AT ALL EXPOSED CORNERS.
7. WHERE THE WORD "ALIGN" IS INDICATED IT SHALL MEAN TO ALIGN BOTH SIDES OF WALL.

Project Title:
New Animal Facility at:
Montville Animal Shelter
225 Maple Ave.
Montville, CT

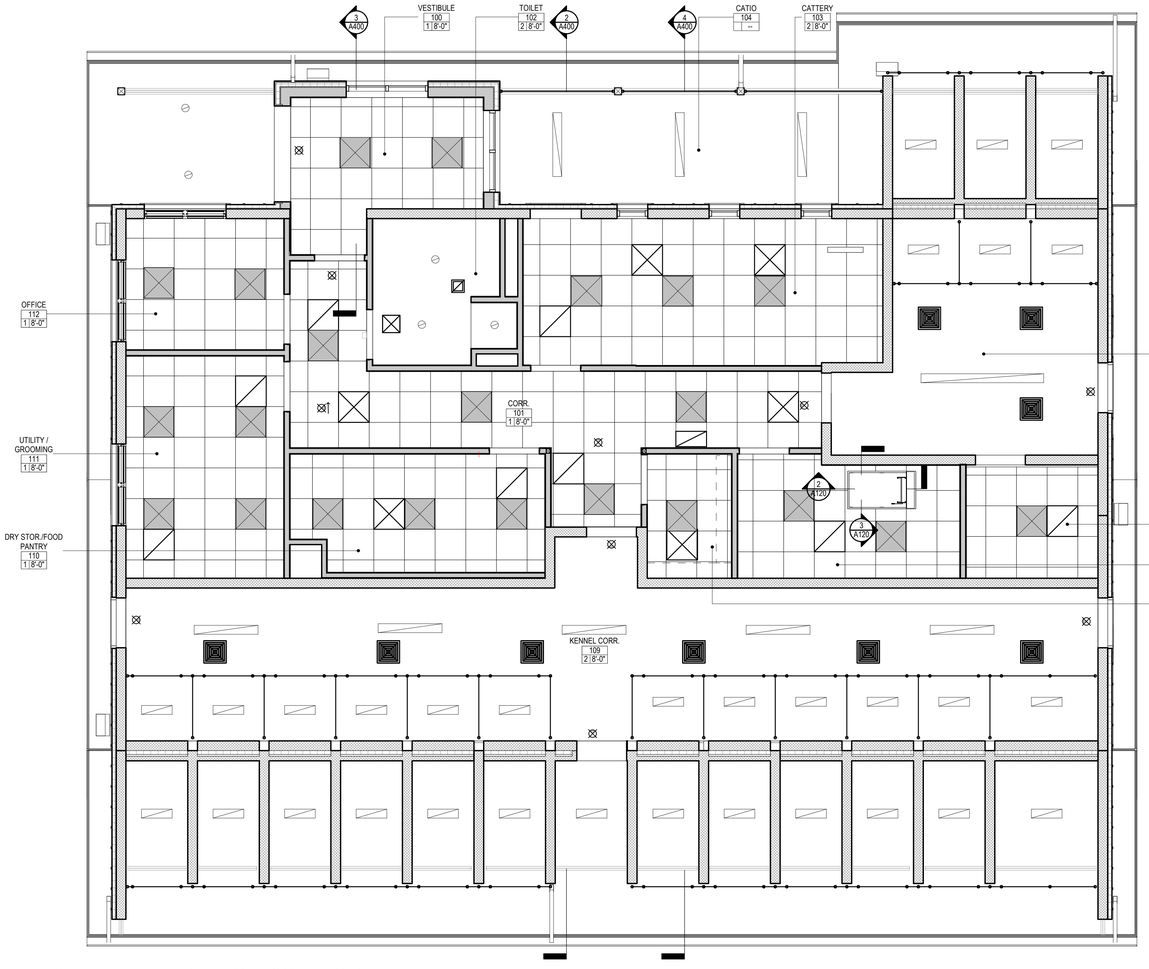
SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:

Drawing Title: ROOF PLAN

Date: 09/29/2023
Scale: As indicated
Drawn By: MES
Project Number: 22.130

Drawing Number: A130



1 MAIN LEVEL REFLECTED CEILING PLAN
1/4" = 1'-0"

RCP SYMBOL LEGEND

OFFICE
###
- ROOM NAME
- ROOM NUMBER

(10'-0") - CEILING HEIGHT

- 2' X 2' ACOUSTICAL CEILING TILES & GRID W/ SUPPORTS

- PAINTED GYPSUM BOARD CEILING

- EXIT SIGN, REFER TO ELECTRICAL DRAWINGS

- RECESSED LIGHT FIXTURES, REFER TO ELECTRICAL DRAWINGS

- 2' X 2' LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS

- PENDENT STYLE LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS

- SUPPLY DIFFUSER, REFER TO MECHANICAL DRAWINGS

- RETURN DIFFUSER, REFER TO MECHANICAL DRAWINGS

- CONCEALED SPINKLER HEAD, REFER TO FIRE PROTECTION DRAWINGS

- EXPOSED SPINKLER HEAD, REFER TO FIRE PROTECTION DRAWINGS

X - CONSTRUCTION NOTE

X
Axxx
- PLAN/SECTION/DETAIL NUMBER
- SHEET NUMBER

REFLECTED CEILING PLAN NOTES

ROOM NAME → OFFICE
ROOM NUMBER → ###
FINISH - HEIGHT → F 8'-0"

FINISH TYPE:
1. ACOUSTIC CEILING TILE
2. 1/2" GYPSUM BOARD
3. VENTED SOFFIT PANEL

Project Title:
New Animal Facility at:
Montville Animal Shelter
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Montville, CT

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

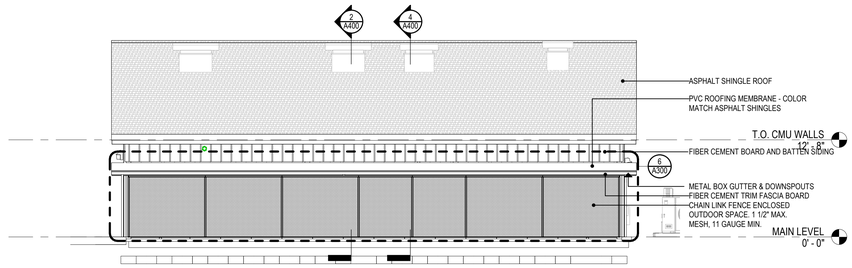
Revision:	Description:	Date:	Revised By:

Drawing Title:
REFLECTED CEILING PLAN

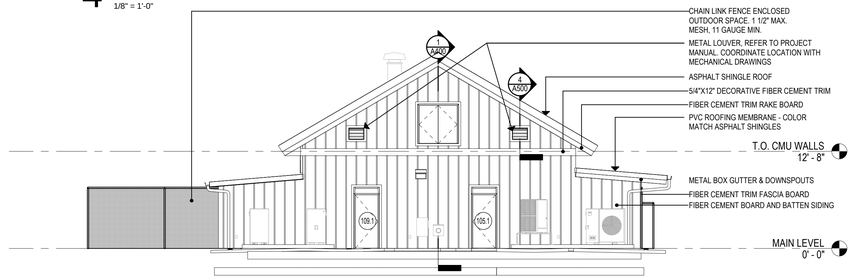
Date: 09/29/2023
Scale: As indicated
Drawn By: MES
Project Number: 22.130

Drawing Number:
A210

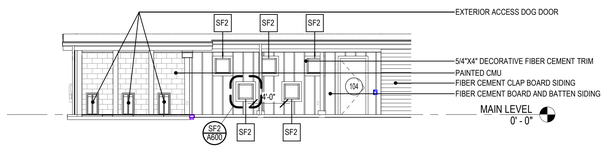
6 EAST WALL ELEVATION
1/8" = 1'-0"



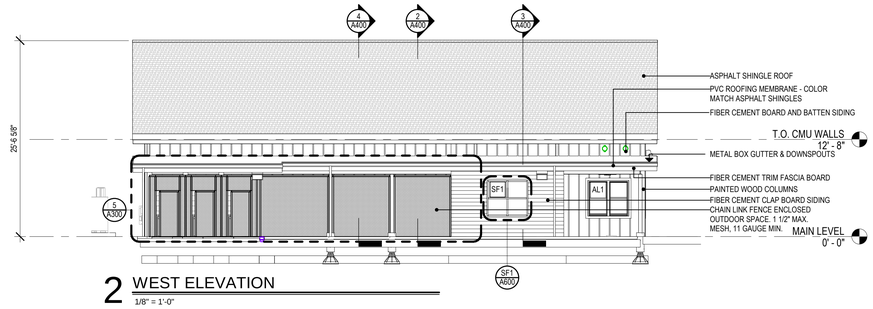
4 EAST ELEVATION
1/8" = 1'-0"



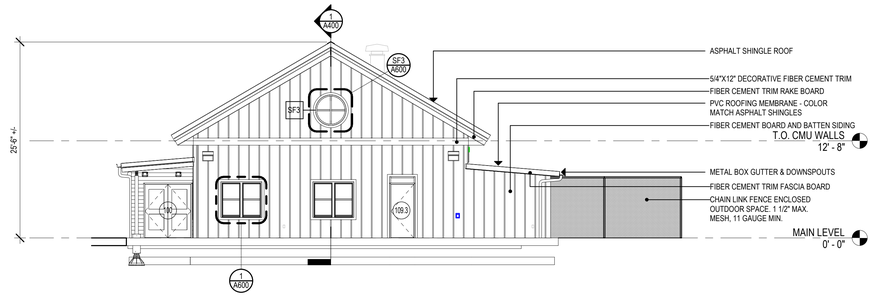
3 NORTH ELEVATION
1/8" = 1'-0"



5 WEST WALL ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"



1 SOUTH ELEVATION
1/8" = 1'-0"

Project Title:
New Animal Facility at:
Montville Animal Shelter
225 Maple Ave.
Montville, CT

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

Revision:	Description:	Date:	Revised By:

Drawing Title:
EXTERIOR ELEVATIONS

Date: 09/29/2023
Scale: 1/8" = 1'-0"
Drawn By: MES
Project Number: 22.130

Drawing Number:
A300