



TO: Zoning Commission

FROM: Alter & Pearson, LLC

DATE: January 12, 2023

RE: Project Narrative – Proposed Multifamily Development at 446  
Hopmeadow Street (R-15 Zone - High Density Residential)

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VESSEL RE HOLDINGS, LLC (“Applicant”) hereby submits a Site Plan Application to develop a new multi-family development at 446 Hopmeadow Street. The proposed development will consist of 80 rental apartments (77, 1-bedroom units and 3, 2-bedroom units) within one building, and will qualify as a “set-aside” development pursuant to Connecticut General Statutes §8-30g.

Vessel Technologies, Inc. was founded in 2017, with the goal of addressing the housing affordability crisis. At its inception, Vessel spent three years fully developing an innovative housing product that would provide affordable housing by (1) creating an exceptional standardized design with modern and elegant aesthetics, and (2) utilizing a modular building technique to streamline the building process. The modular building technique allows the building to be built in parts off-site and assembled in-place permitting the building to be constructed within a matter of months. The design integrates modern technology and sustainable design with the goal of passing savings to the residents. Each Vessel property is operated by a Caretaker, who will be a local resident trained by Vessel and empowered to have a career within his/her community. *See Binder Tab 3 for Additional Information on Vessel.*

The Site is 85,591± s.f. (1.97± acres) and located on the easterly side of Hopmeadow Street, north of the intersection of Powder Forest Drive (the “Site”). The Site is in the R-15 High Density Residential Zoning District and is currently improved with a single-family house. There are no flood zones or wetlands located on the Site; however, the upland review area does extend onto the Site from the north. The Applicant submitted an Inland Wetlands Permit for proposed activity within the upland review area to the Conservation Commission Inland Wetlands Watercourses Agency. The Site is surrounded by residential condominiums to the north, the bike path to the east, single family residential homes to the south and Hopmeadow Street to the west.

The Applicant is proposing to construct a 4-story multifamily apartment building consisting of 80 rental units in the easterly portion of the Site. One curb cut is proposed on Hopmeadow Street at the northwesterly corner of the Site. A total of 94 parking spaces are proposed and located to the front of the building. The dumpster is proposed in the easterly portion of the parking area and is enclosed with an 8-foot vinyl fence.

The Site is serviced by public water and sanitary sewer. A Traffic Impact Report is included with this Application (*See Binder Tab 4*), and states that the development will generate 30

new trips in the AM peak hour and 32 new trips at the PM peak hour. The Site driveway will operate at LOS A and B in the AM peak hour, and LOS A and C in the PM peak hour. The signalized intersection at Route 10/202 (Hopmeadow Street) at Powder Forest Drive will continue to operate at a combined LOS A. The report recommends that pavement markings should be restriped on Hopmeadow Street to break the double yellow centerline median at the Site driveway. The report concludes that “the proposed residential development, upon implementation of the recommendation above, will not have a significant impact to traffic operations within the study area.”

A detailed landscape plan is included in the submitted plan set (*See last sheet of Plan Set*). The proposed parking lot lights have a mounting height of 16 feet and are dark sky compliant solar fixtures (*See Sheet 6 of Plan Set and Binder Tab 6 for Cut Sheet*). A Stormwater Management Report dated December 16, 2022, is submitted with this Application (*See Binder Tab 10*).

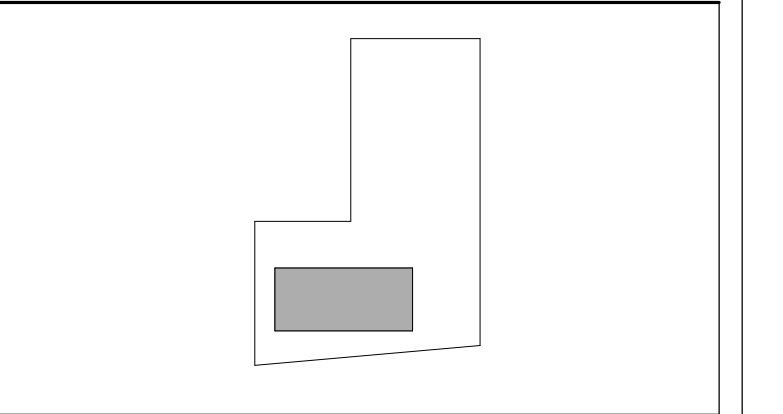
An architectural package is included in *Binder Tab 5*. The main entry to the building is located at its northwest corner. The northwest portion of the building is open to the elements with architectural fabric and/or perforated screen and the exterior building material is a high-pressure laminate panel. A roof mounted solar array will cover the roof of the building; however, no batteries are proposed on Site. The building will be “net-zero” meaning that the building will consume as much energy as it produces, and the savings will be passed to the residents. The one-story mechanical room is in the northeast corner of the building and the VRF mechanical units are located on the roof of the mechanical room.

In accordance with C.G.S. §8-30g, thirty percent (30%) or twenty-four (24) of the residential rental units will be rent-restricted for forty (40) years. A *draft* Affordability Plan is included with the Application (*See Binder Tab 8*). The Plan indicates that the maximum monthly rental price for an affordable or Housing Opportunity Unit will be between \$1,054.00 and \$1,265.00 for the 1-bedroom units, and between \$1,302.00 and \$1,563.00 for the 2-bedroom unit. The proposed development will address Simsbury’s need for affordable housing as described in the Memo Regarding Affordable Housing (*See Binder Tab 7*) and meets the goals of both the Simsbury Affordable Housing Plan 2020-2025 and the Simsbury 2017 Plan of Conservation & Development.



**OWNER**  
 VESSEL TECHNOLOGIES  
 46 W 55TH ST  
 NEW YORK, NY 10019  
 NY 212.413.0850

**DESIGN PROFESSIONAL OF RECORD**  
 ROBERT R. DESMARAIS PE  
 313 W LIBERTY ST. STE 101  
 LANCASTER PA 17601  
 PA 717.617.2725 CT PROFESSIONAL ENGINEER



446 Hopmeadow Street,  
 Simsbury, CT

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PROJECT  
**V1007\_Hopmeadow Street\_21**

DRAWING TITLE  
**COVER SHEET**

|                  |         |
|------------------|---------|
| SEAL & SIGNATURE | DATE    |
| PROJECT NO.      | 2021359 |
| DRAWN BY         | Author  |
| CHECKED BY       | Checker |
| DOB NO.          |         |
| DRAWING NUMBER   |         |

**A-100**

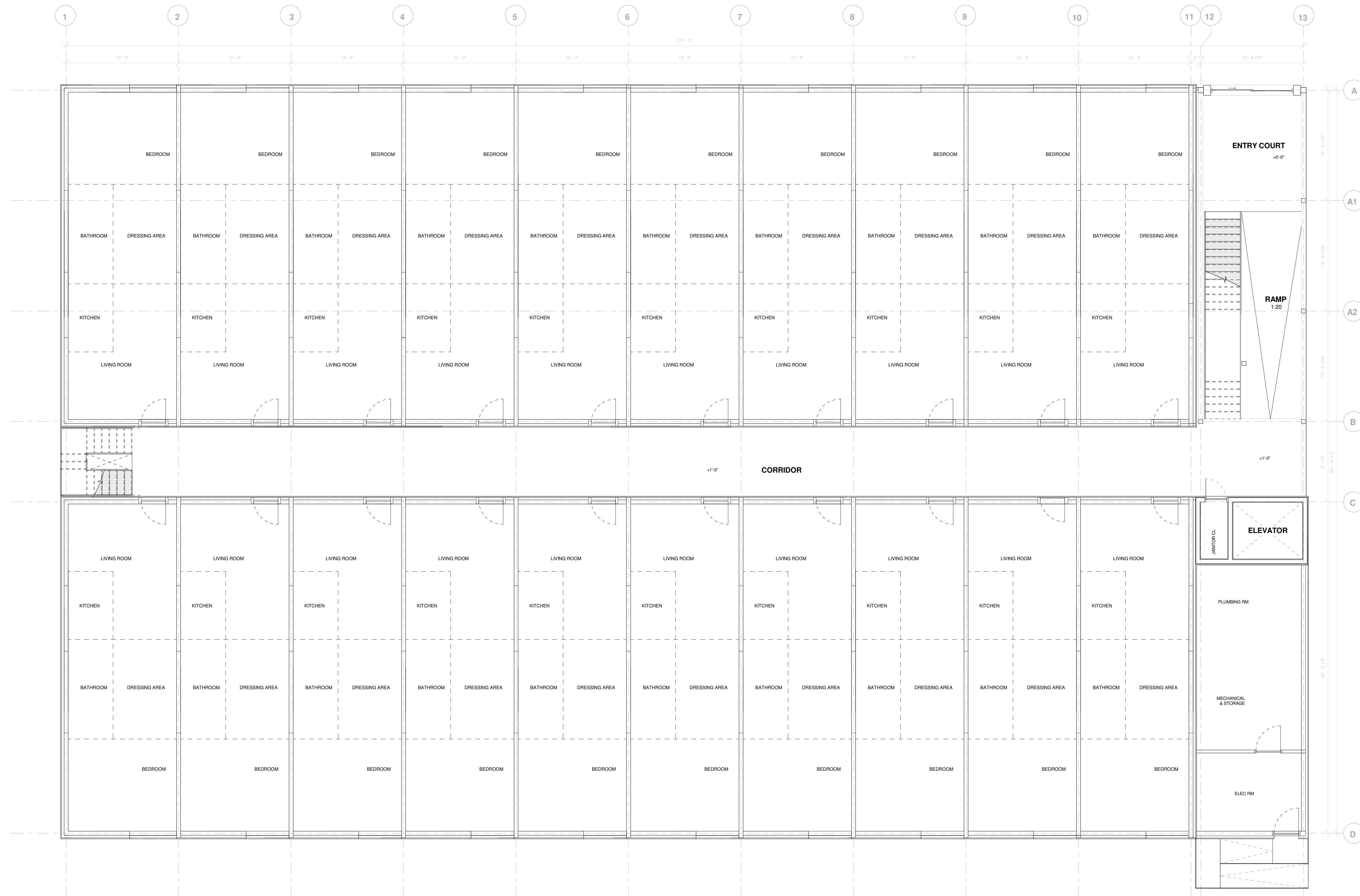


| SHEET NUMBER | SHEET NAME         |
|--------------|--------------------|
| A-100        | COVER SHEET        |
| A-101        | GROUND FLOOR PLAN  |
| A-102        | TYPICAL FLOOR PLAN |
| A-103        | FRONT ELEVATION    |
| A-104        | BACK ELEVATION     |
| A-105        | SIDE ELEVATION 1   |
| A-106        | SIDE ELEVATION 2   |

| FLOOR AREA - |             |
|--------------|-------------|
| GROUND FLOOR | 14156.52 SF |
| SECOND FLOOR | 13624.23 SF |
| THIRD FLOOR  | 13624.23 SF |
| FOURTH FLOOR | 13624.23 SF |

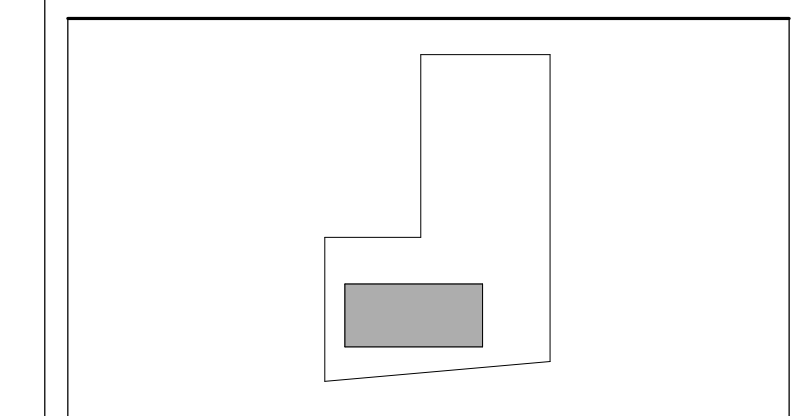
| TOTAL GROUND FLOOR UNITS        |           |
|---------------------------------|-----------|
| ONE BEDROOM GROUND FLOOR UNITS  | 20        |
| <b>TOTAL SECOND FLOOR UNITS</b> | <b>20</b> |
| ONE BEDROOM SECOND FLOOR UNITS  | 19        |
| TWO BEDROOM SECOND FLOOR UNITS  | 01        |
| <b>TOTAL THIRD FLOOR UNITS</b>  | <b>20</b> |
| ONE BEDROOM THIRD FLOOR UNITS   | 19        |
| TWO BEDROOM THIRD FLOOR UNITS   | 01        |

| TOTAL FOURTH FLOOR UNITS              |           |
|---------------------------------------|-----------|
| ONE BEDROOM FOURTH FLOOR UNITS        | 19        |
| TWO BEDROOM FOURTH FLOOR UNITS        | 01        |
| <b>TOTAL NUMBER OF DWELLING UNITS</b> | <b>80</b> |
| TOTAL NUMBER OF ONE BEDROOM UNITS     | 77        |
| TOTAL NUMBER OF TWO BEDROOM UNITS     | 03        |



**OWNER**  
VESSEL TECHNOLOGIES  
46 W 55TH ST  
NEW YORK, NY 10019  
NY 212.413.0850

**DESIGN PROFESSIONAL OF RECORD**  
ROBERT R. DESMARAIS PE  
313 W LIBERTY ST, STE 101  
LANCASTER, PA 17603  
PA 717.617.2725 CT PROFESSIONAL ENGINEER



446 Hopmeadow Street,  
Simsbury, CT

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PROJECT  
**V1007\_Hopmeadow Street\_21**

DRAWING TITLE  
**GROUND FLOOR PLAN**

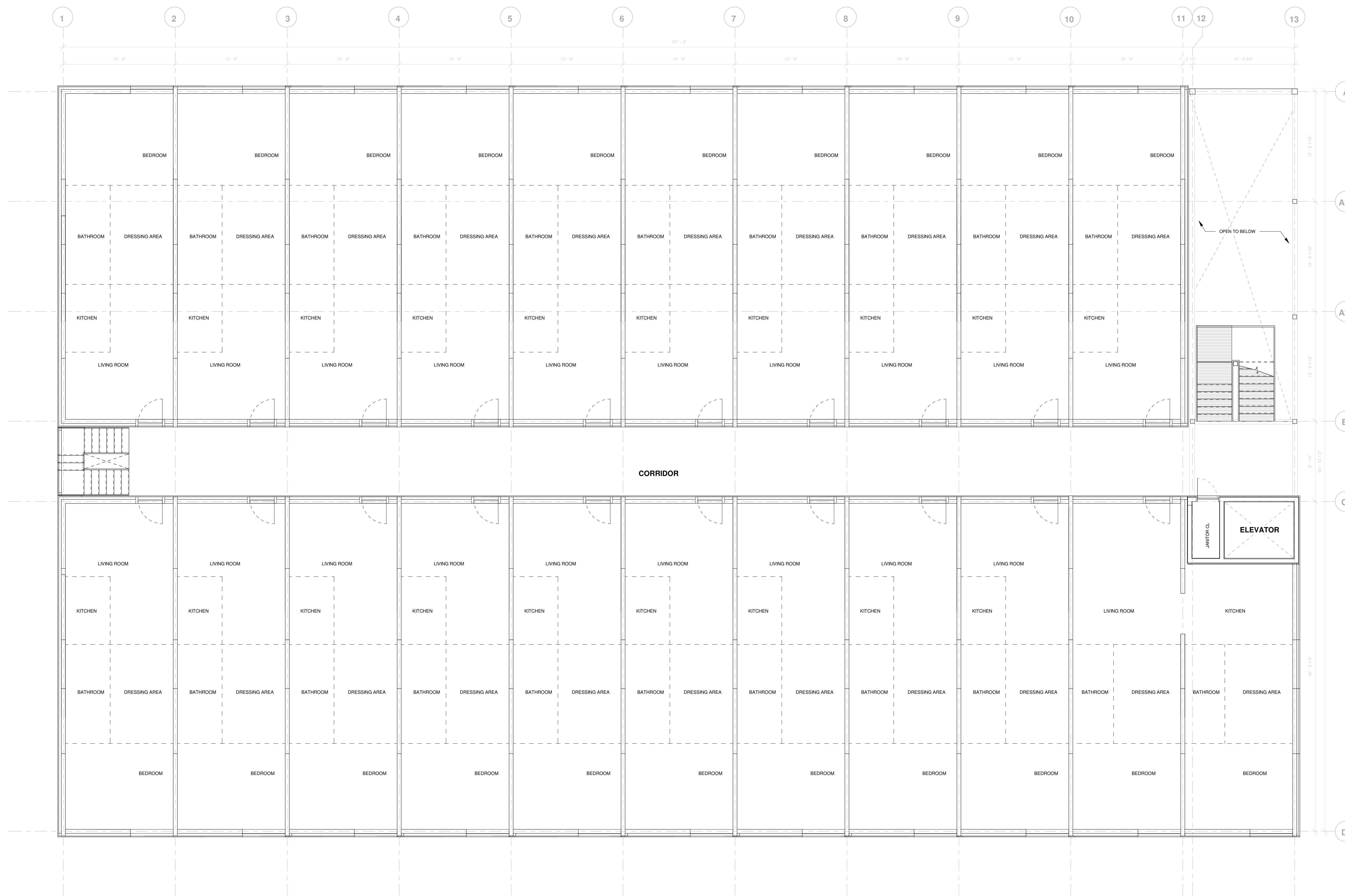
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PROJECT NO. 2021359  
DRAWN BY Author  
CHECKED BY Checker  
DOB NO. \_\_\_\_\_  
DRAWING NUMBER

**A-101**

| <b>FLOOR AREA -</b> |             |
|---------------------|-------------|
| GROUND FLOOR        | 14156.52 SF |
| SECOND FLOOR        | 13624.23 SF |
| THIRD FLOOR         | 13624.23 SF |
| FOURTH FLOOR        | 13624.23 SF |

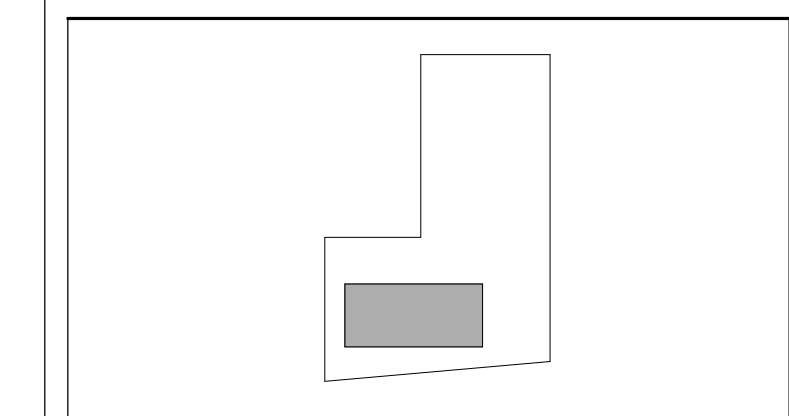
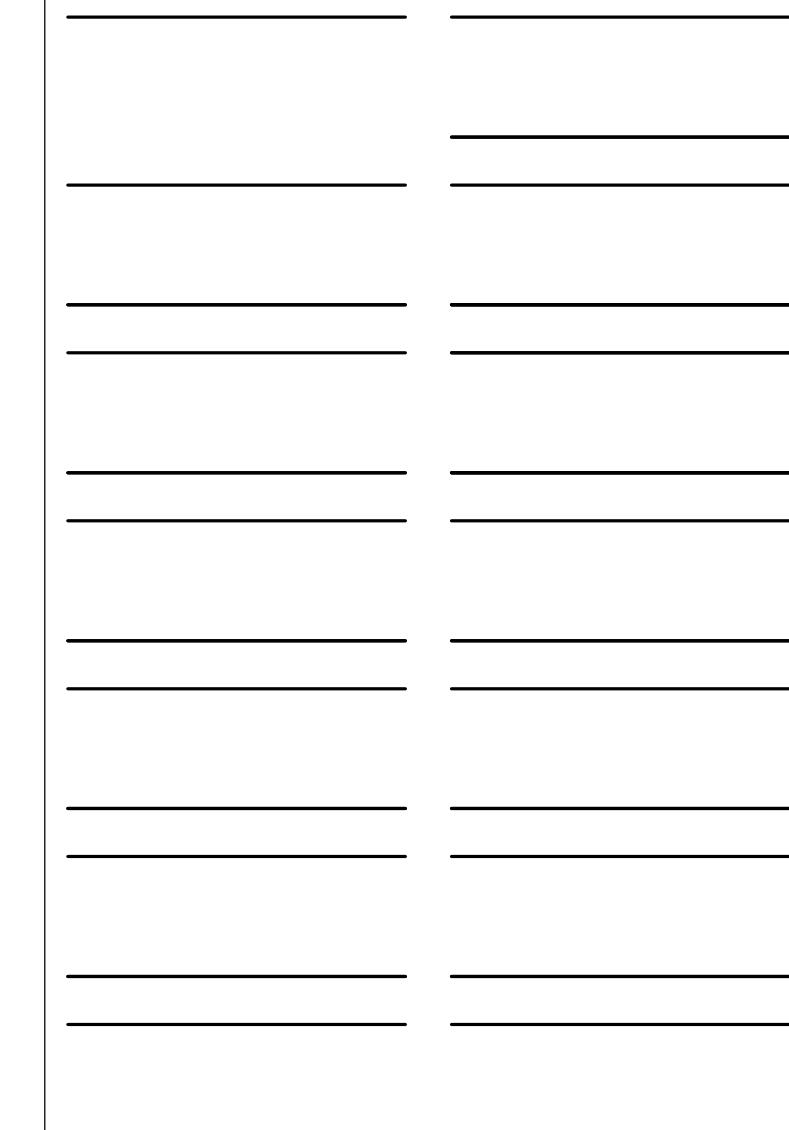
| <b>TOTAL GROUND FLOOR UNITS</b> |           |
|---------------------------------|-----------|
| ONE BEDROOM GROUND FLOOR UNITS  | 20        |
| <b>TOTAL SECOND FLOOR UNITS</b> | <b>20</b> |
| ONE BEDROOM SECOND FLOOR UNITS  | 19        |
| TWO BEDROOM SECOND FLOOR UNITS  | 01        |
| <b>TOTAL THIRD FLOOR UNITS</b>  | <b>20</b> |
| ONE BEDROOM THIRD FLOOR UNITS   | 19        |
| TWO BEDROOM THIRD FLOOR UNITS   | 01        |

| <b>TOTAL FOURTH FLOOR UNITS</b>       |           |
|---------------------------------------|-----------|
| ONE BEDROOM FOURTH FLOOR UNITS        | 19        |
| TWO BEDROOM FOURTH FLOOR UNITS        | 01        |
| <b>TOTAL NUMBER OF DWELLING UNITS</b> | <b>80</b> |
| TOTAL NUMBER OF ONE BEDROOM UNITS     | 77        |
| TOTAL NUMBER OF TWO BEDROOM UNITS     | 03        |



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PROJECT  
**V1007\_Hopmeadow  
 Street\_21**

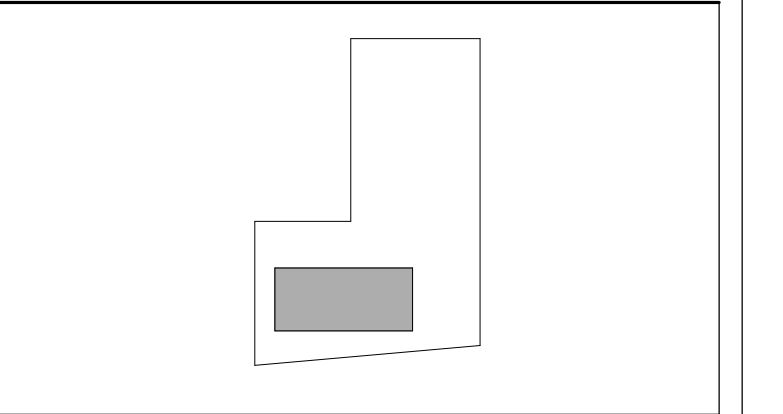
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**TYPICAL FLOOR PLAN**

| SEAL & SIGNATURE | DATE    |
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| PROJECT NO.      | 2021359 |
| DRAWN BY         | Author  |
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| DOB NO.          |         |
| DRAWING NUMBER   |         |

**A-102**

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446 Hopmeadow Street,  
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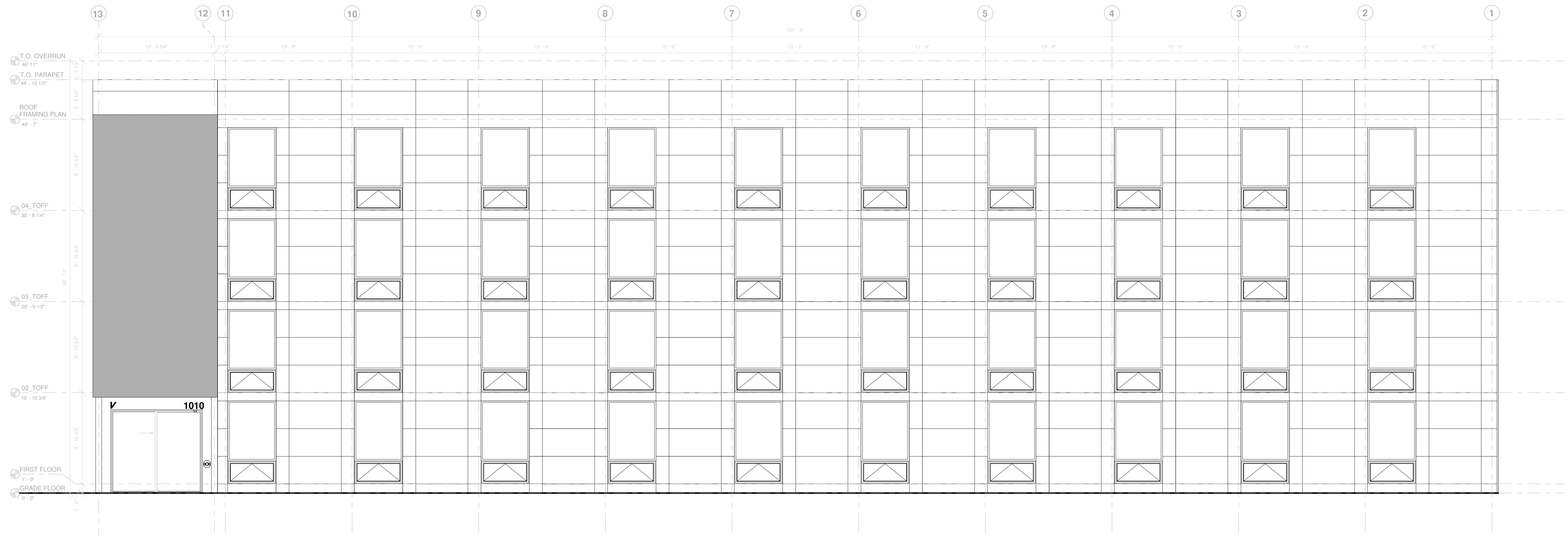
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PROJECT  
**V1007\_Hopmeadow Street\_21**

DRAWING TITLE  
**FRONT ELEVATION**

|                  |                     |
|------------------|---------------------|
| SEAL & SIGNATURE | DATE                |
|                  | PROJECT NO. 2021359 |
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|                  | CHECKED BY Checker  |
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|                  | DRAWING NUMBER      |

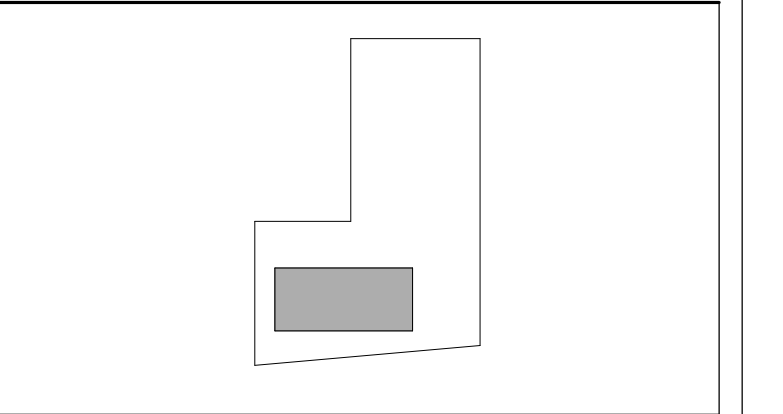
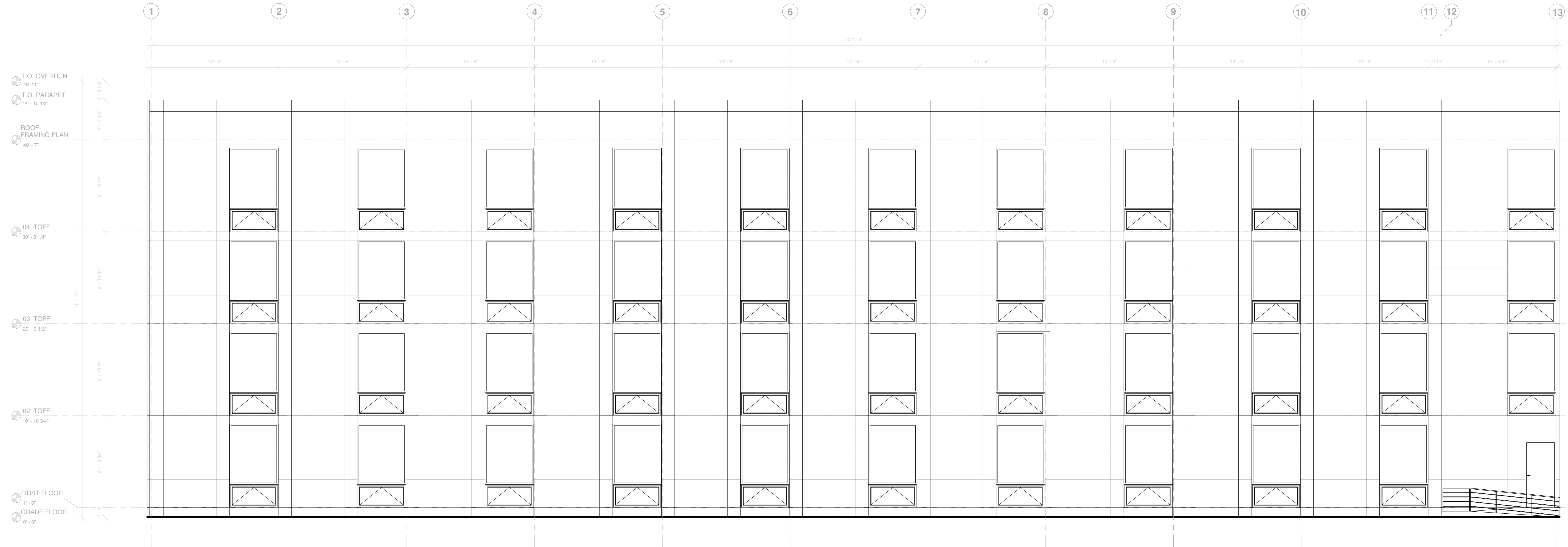
**A-103**





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PROJECT  
**V1007\_Hopmeadow Street\_21**

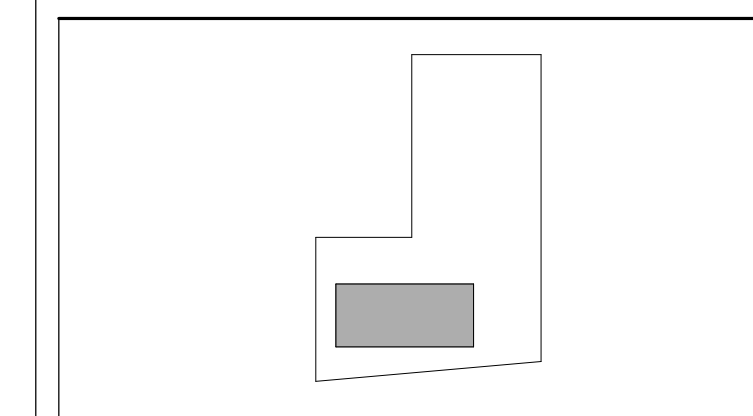
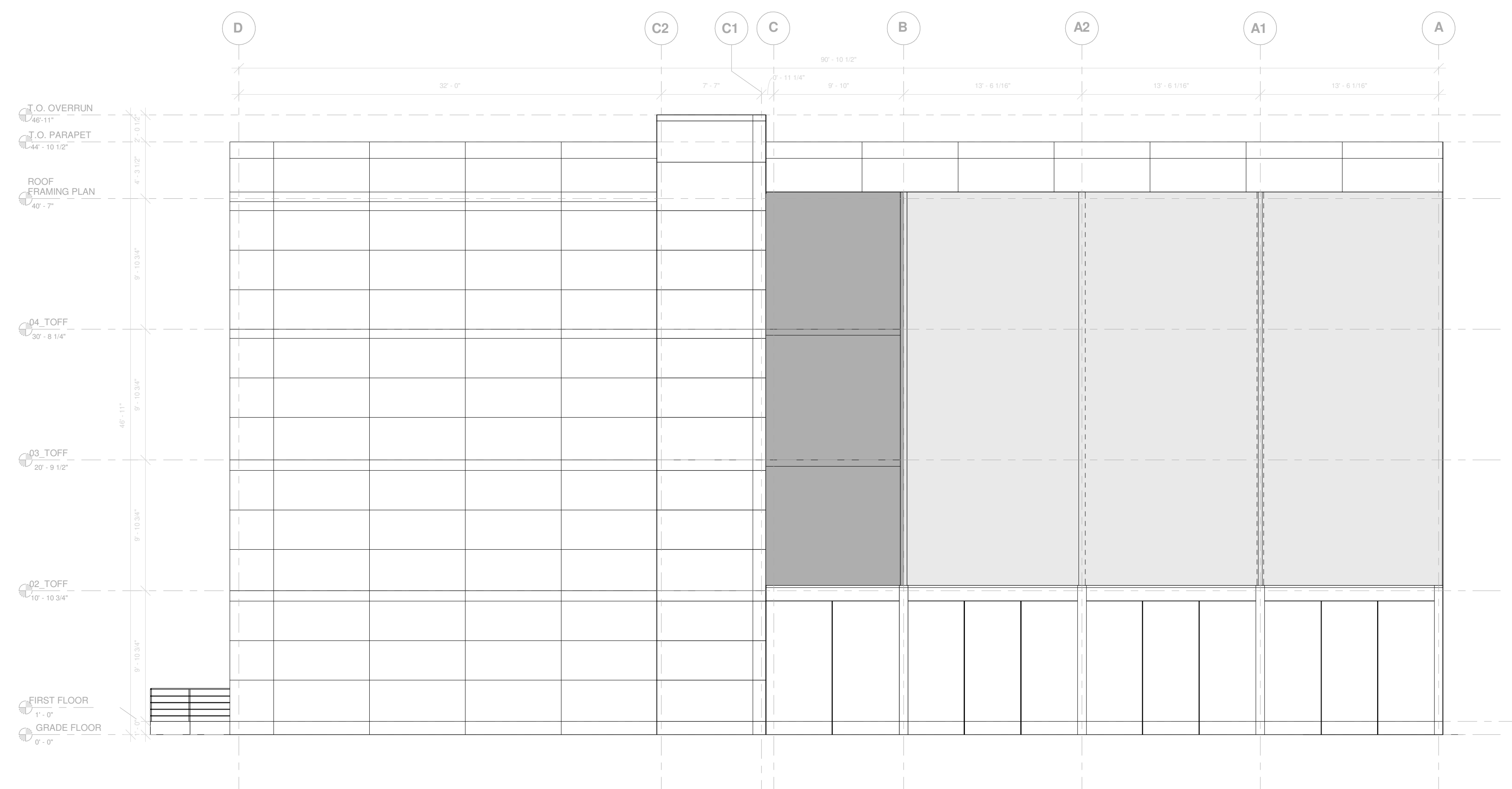
DRAWING TITLE  
**BACK ELEVATION**

|                  |                     |
|------------------|---------------------|
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|                  | DRAWN BY Author     |
|                  | CHECKED BY Checker  |
|                  | DOB NO.             |
|                  | DRAWING NUMBER      |

**A-104**

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 VESSEL TECHNOLOGIES  
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PROJECT  
**V1007\_Hopmeadow  
 Street\_21**

DRAWING TITLE

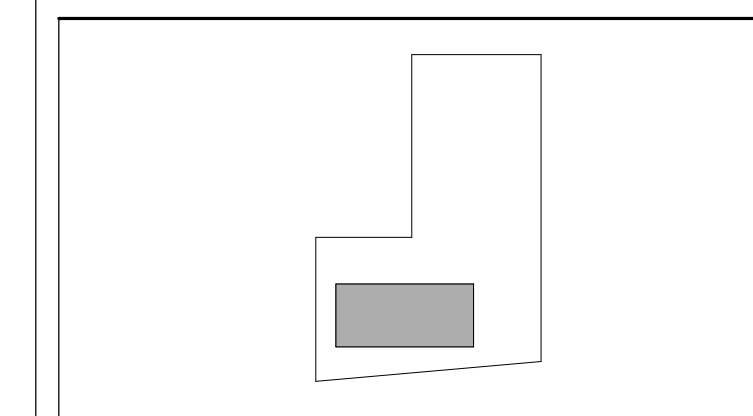
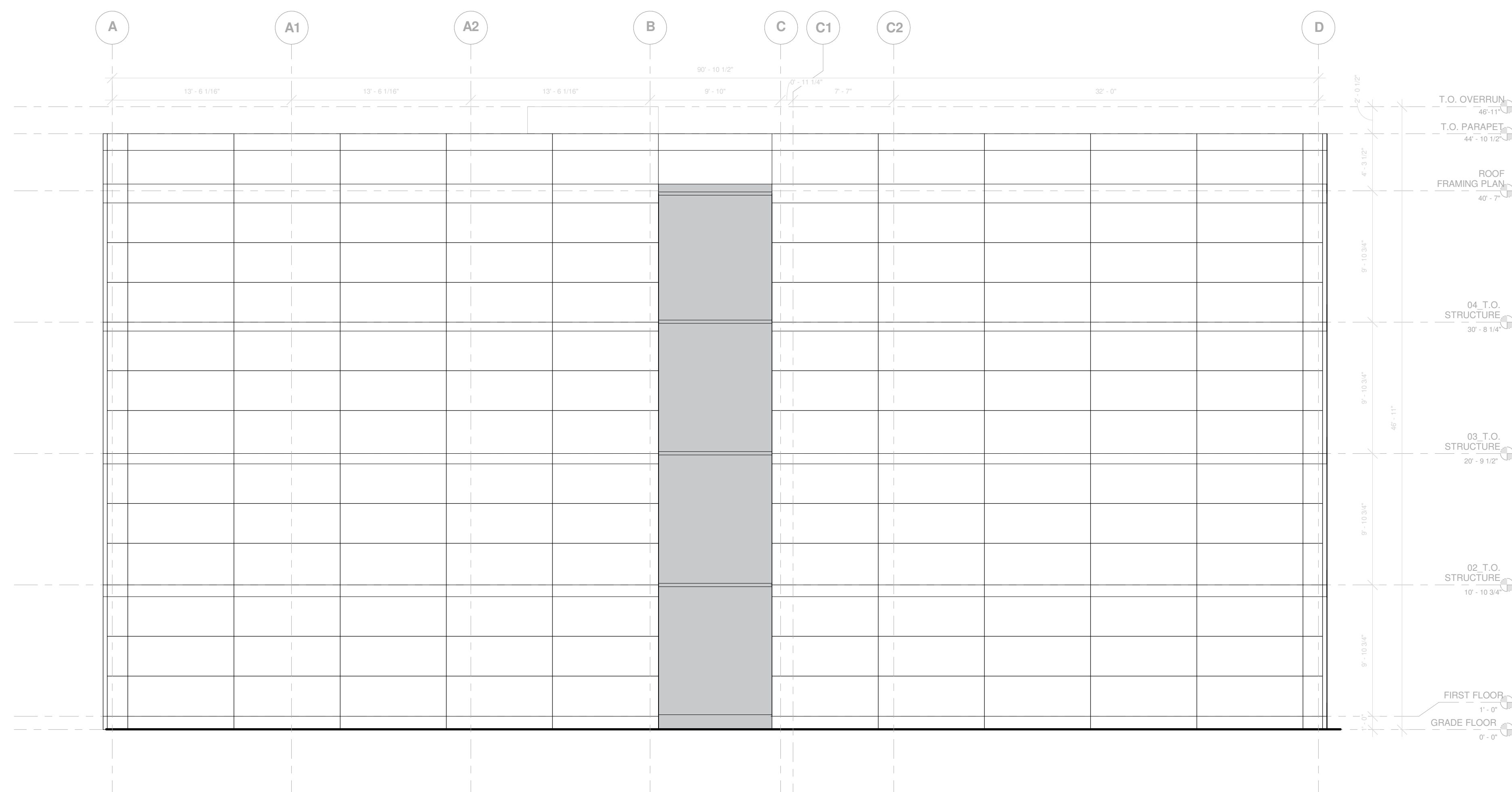
**SIDE ELEVATION 1**

|                  |         |
|------------------|---------|
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| DRAWN BY         | Author  |
| CHECKED BY       | Checker |
| DOB NO.          |         |
| DRAWING NUMBER   |         |

**A-105**

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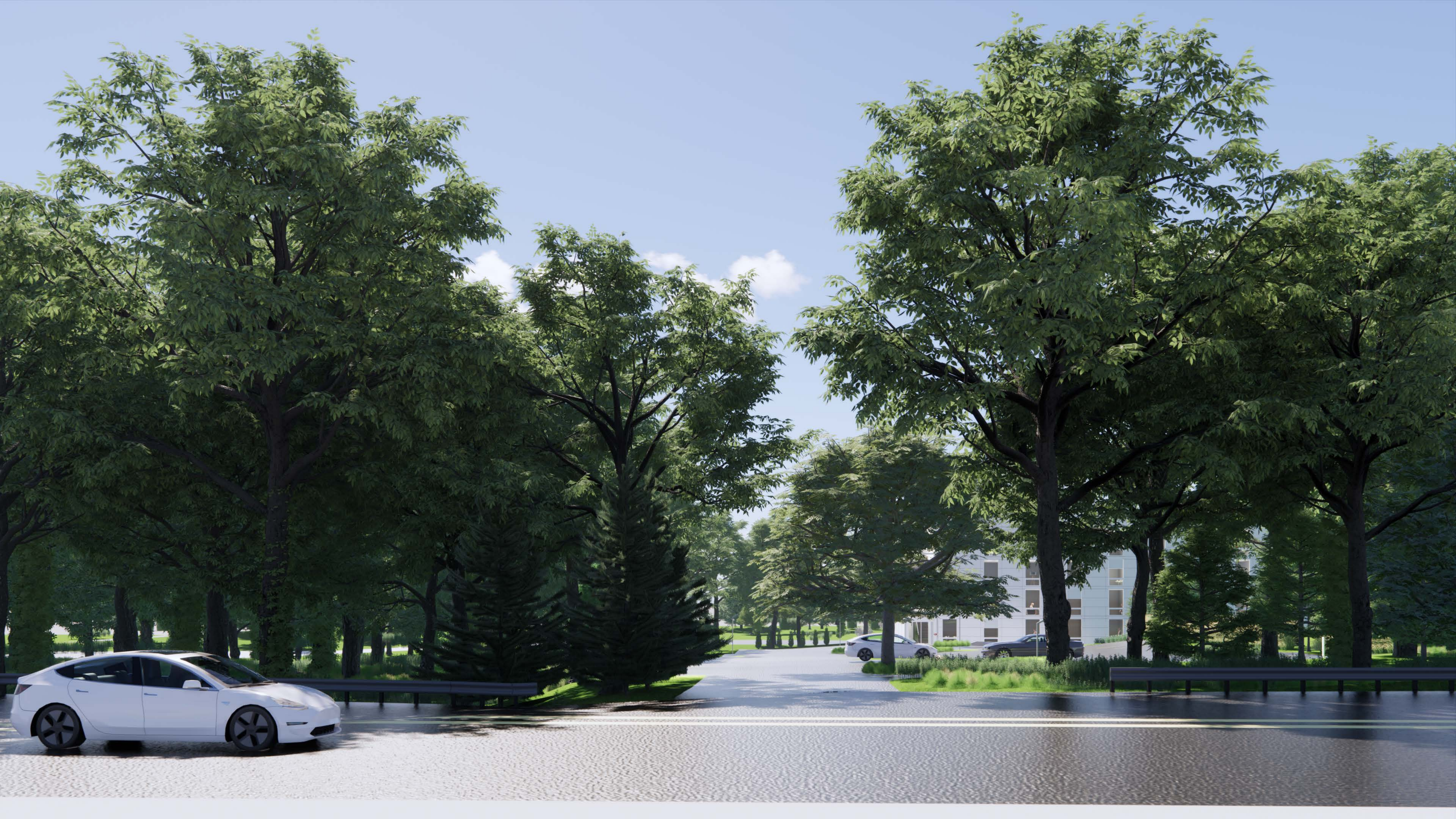
PROJECT  
**V1007\_Hopmeadow Street\_21**

DRAWING TITLE

**SIDE ELEVATION 2**

|                  |                     |
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| CHECKED BY       | Author              |
| DOB NO.          | Checker             |
| DRAWING NUMBER   |                     |

**A-106**









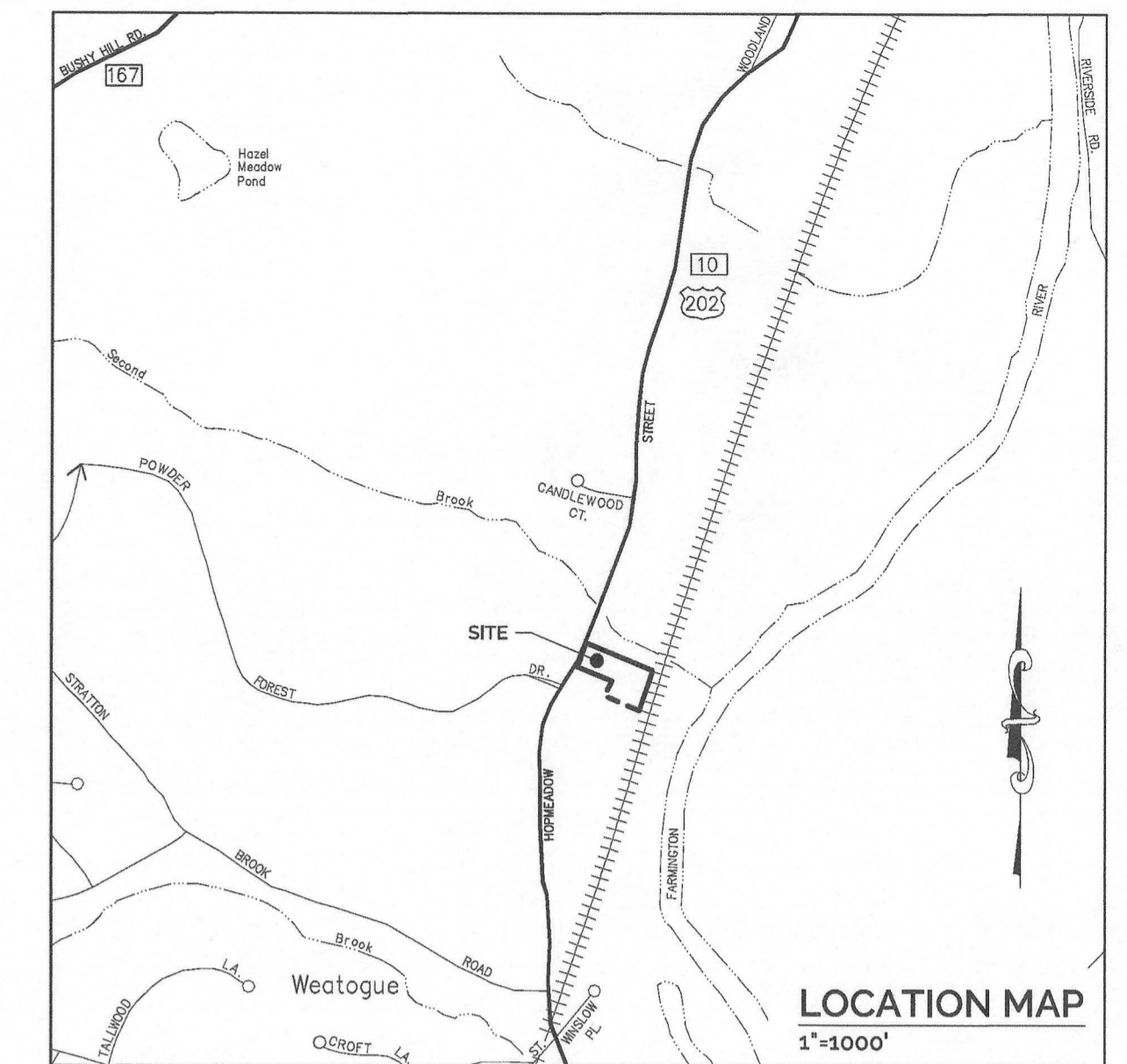
# SITE DEVELOPMENT PLANS

## VESSEL MULTI-FAMILY HOUSING

### 446 HOPMEADOW STREET, SIMSBURY, CT 06089

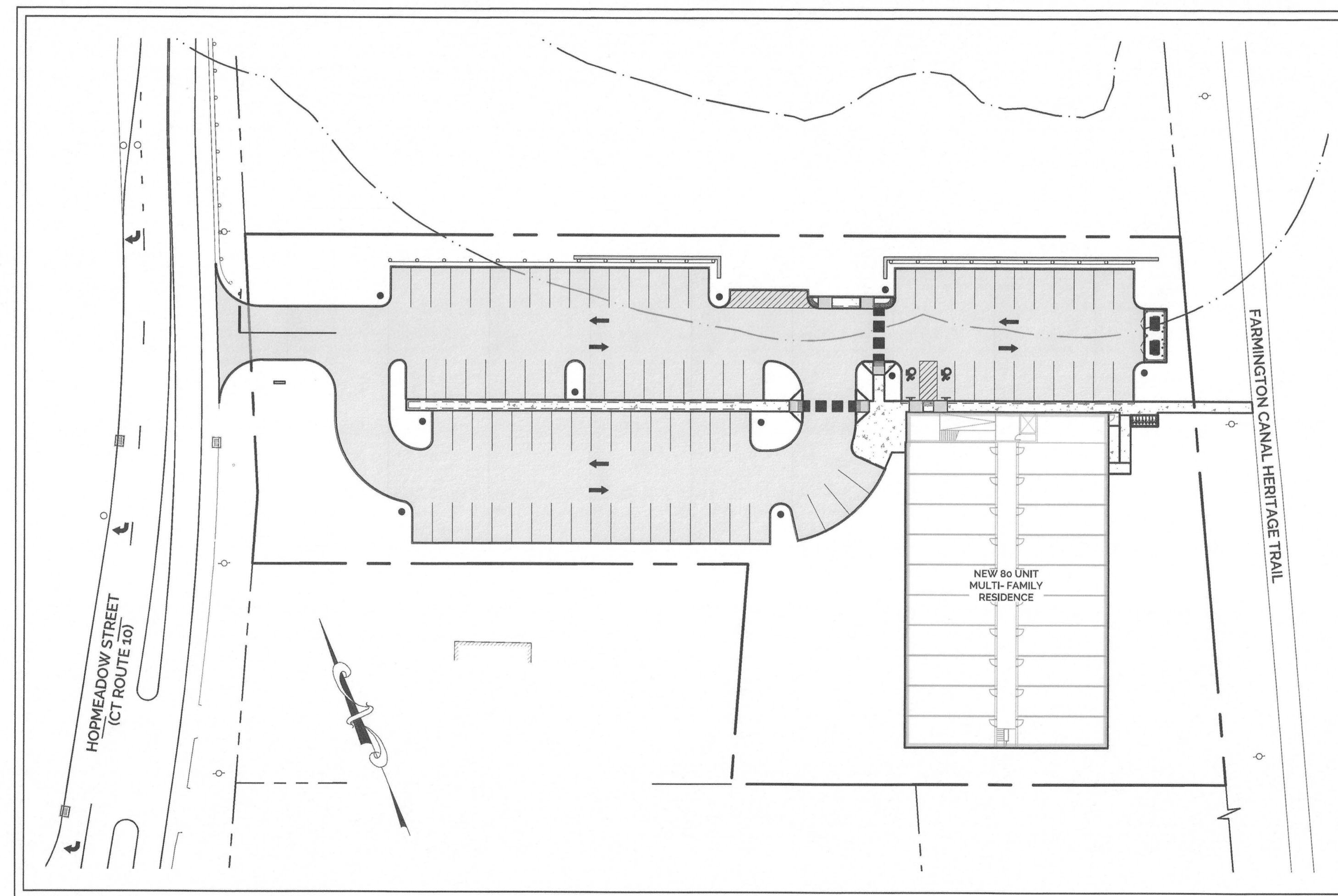
PREPARED FOR: VESSEL TECHNOLOGIES, INC.

DATE: DECEMBER 16, 2022



**LEGEND**

|  |             |
|--|-------------|
| PROPERTY LINE                          | ---         |
| ADJOINER PROPERTY LINE                 | - - - -     |
| BUILDING SETBACK LINE                  | - · - · -   |
| ZONE LINE                              | ---         |
| WATERCOURSE                            | ~~~~~       |
| INLAND WETLAND                         | .....       |
| 100' INLAND WETLAND UPLAND REVIEW AREA | .....       |
| TREELINE                               | ~~~~~       |
| BRUSHLINE                              | ~~~~~       |
| GUIDERAIL                              | — · — · —   |
| CHAINLINK FENCE                        | - X - X -   |
| EX. INT. CONTOUR                       | - - - -100- |
| EX. INT. CONTOUR                       | - - - -99-  |
| PR. INT. CONTOUR                       | - - - -100- |
| PR. INT. CONTOUR                       | - - - -99-  |
| PR. SPOT GRADE                         | 7.5 ○       |
| PR. SWALE                              | →           |
| OVERHEAD ELECTRIC                      | OHE         |
| UNDERGROUND ELECTRIC                   | UE          |
| UNDERGROUND ELECTRIC, TELEPHONE, CABLE | ETC         |
| SANITARY SEWER LINE                    | SAN         |
| STORM PIPE                             | ---         |
| TELEPHONE LINE                         | TEL         |
| WATER LINE                             | W           |
| DOMESTIC WATER LINE                    | DW          |
| FIRE PROTECTION LINE                   | FP          |
| SILT FENCE                             | SF          |
| HAYBALES                               |             |
| TOP OF WALL                            | TW          |
| BOTTOM OF WALL                         | BW          |
| TOP OF CURB                            | TC          |
| BOTTOM OF CURB                         | BC          |
| UTILITY POLE                           | ○           |
| IRON PIPE/IRON ROD                     | IP          |
| BORING HOLES                           | Bz          |



**SHEET INDEX**

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| DT-3    | SITE DETAILS  | 11        |
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**APPLICANT:**  
VESSEL TECHNOLOGIES, INC.  
46 WEST 55TH STREET  
NEW YORK, NY 10019

**PROPERTY OWNER:**  
EAY PROPERTIES LLC  
540 HOPMEADOW STREET #6  
SIMSBURY, CT 06070

**CIVIL ENGINEER:**  
H+H ENGINEERING ASSOCIATES, LLC  
SEAMUS MORAN, P.E.  
232 GREENMANVILLE AVENUE, SUITE 201  
MYSTIC, CT 06355

**LANDSCAPE ARCHITECT:**  
THOMAS GRACEFFA LANDSCAPE ARCHITECT, LLC  
19 FLAG DRIVE  
MANCHESTER, CT 06040

**LAND SURVEYOR:**  
ROB HELLSTROM LAND SURVEYING LLC  
32 MAIN STREET  
HEBRON, CT 06248

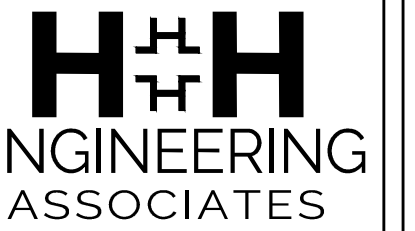


**PREPARED BY:**  
**H+H ENGINEERING ASSOCIATES**  
232 Greenmanville Ave.  
Suite 201  
Mystic, CT 06355  
860-980-8008  
www.hh-engineers.com



**GENERAL CONSTRUCTION NOTES:**

1. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 800-922-4455 TO MARK OUT ALL UNDERGROUND UTILITIES A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY. CONTRACTOR SHALL VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. IF UTILITIES DIFFER FROM THOSE SHOWN ON THIS PLAN, ENGINEER SHALL BE NOTIFIED.
2. ALL PROPERTY LINES SHALL BE VERIFIED IN THE FIELD. NO PRIVATE PROPERTY SHALL BE DISTURBED UNLESS PROPER RIGHTS ARE OBTAINED PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN, REVIEW AND ADHERE TO ALL REQUIREMENTS AND ANY CONDITIONS OF APPROVAL OF THE TOWN OF SIMSBURY.
5. EXISTING DRAINAGE PATTERNS SHALL BE SUBSTANTIALLY MAINTAINED. THE CONTRACTOR SHALL GRADE THE PROPERTY IN SUCH A MANNER TO MAINTAIN EXISTING LOCAL DRAINAGE PATTERNS AND TO PREVENT EXCESS RUNOFF AND/OR PONDING ON ADJACENT PROPERTIES BOTH DURING AND AFTER CONSTRUCTION.
6. A CONNECTICUT DEPARTMENT OF TRANSPORTATION HIGHWAY ENCROACHMENT PERMIT IS REQUIRED FOR ALL IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO APRONS, CURB CUTS, UTILITY LATERALS AND ROADWAY PAVEMENT PATCHING, WITHIN THE STATE RIGHT-OF-WAY.

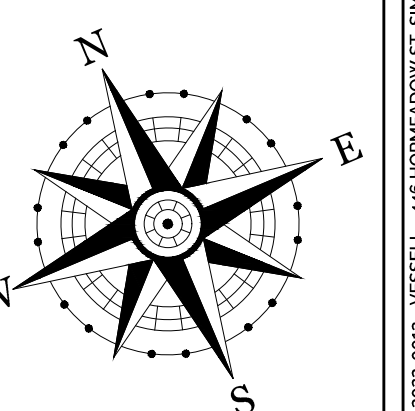


232 Greenmanville Avenue  
Suite 201  
Mystic, CT 06355  
860-980-8008 (O); 413-579-4488 (M)  
www.hh-engineers.com

| REV. | DATE | DESCRIPTION OF REVISION | APPR. |
|------|------|-------------------------|-------|
|      |      |                         |       |
|      |      |                         |       |
|      |      |                         |       |
|      |      |                         |       |

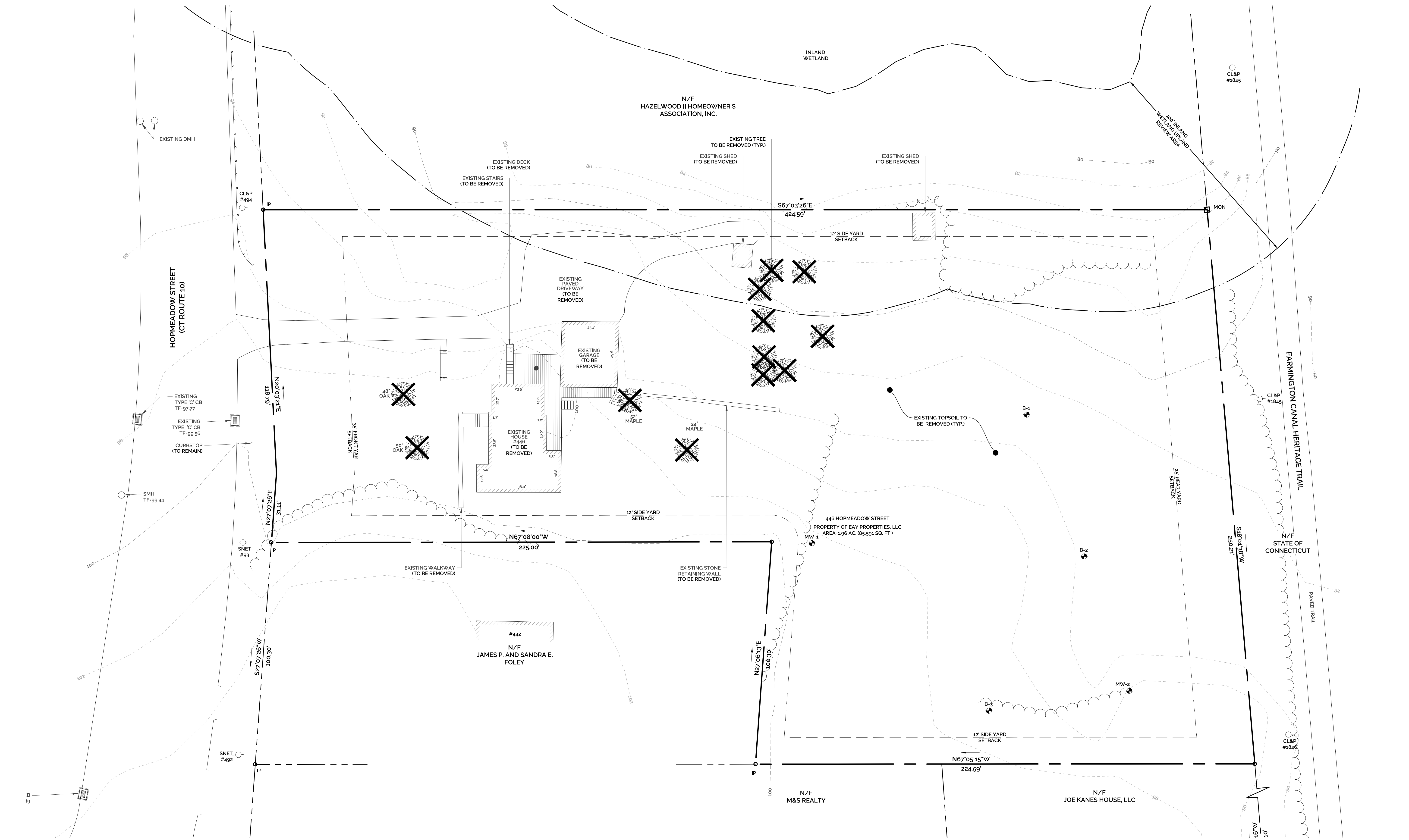
**EXISTING CONDITIONS & DEMOLITION PLAN**

**VESSEL MULTI-FAMILY HOUSING**  
PROPERTY ADDRESS  
446 HOPMEADOW STREET, SIMSBURY, CT 06089  
PREPARED FOR  
**VESSEL TECHNOLOGIES, INC.**  
46 WEST 55TH STREET, NEW YORK, NY 10019



|                          |                    |
|--------------------------|--------------------|
| PROJECT NO.<br>2022-0013 | SCALE<br>1" = 20'  |
| DRAWN BY:<br>SMM         | DATE<br>12/16/2022 |
| CHECKED BY:<br>SMM       | DATE<br>12/16/2022 |

DRAWING  
**XD-1**  
SHEET NUMBER: 1 OF 12



2: SIMSBURY ENGINEERING ASSOCIATES PROJECTS \2022\2022-0013 - VESSEL - 446 HOPMEADOW ST SIMSBURY CT 06089.DWG (Rev. 08/16/2022) 12/16/2022 12:14:20 PM Plotted: 12/16/2022 12:14:20 PM

- GENERAL NOTES:**
- THIS PLAN WAS COMPILED USING THE FOLLOWING REFERENCE INFORMATION:
    - A CLASS A-2 & CLASS T-2 SURVEY MAP ENTITLED, "PROPERTY SURVEY, PREPARED FOR VESSEL TECHNOLOGIES INC. 446 HOPMEADOW STREET, SIMSBURY, CONNECTICUT," SCALE: 1"=30', DATED: NOVEMBER 9, 2022, PREPARED BY ROB HELLSTROM LAND SURVEYING LLC
    - A MAP ENTITLED, "TOWN OF SIMSBURY, CONNECTICUT TOWN ACAD WETLAND MAP 2014, MAP: G13" SCALE: 1"=100', PREPARED BY NEW ENGLAND GEOSYSTEMS.
  - THE APPLICANT IS VESSEL TECHNOLOGIES INC. OF 46 WEST 55TH STREET, NEW YORK, NY 10019. THE PROPERTY OWNER IS EAV PROPERTIES LLC OF 540 HOPMEADOW STREET #6, SIMSBURY, CT 06570.
  - THE SUBJECT PARCEL IS IDENTIFIED AS LOT 00C3 ON TAX ASSESSORS MAP G13, BLOCK 142. THE DEED REFERENCE OF THE PROPERTY IS VOLUME 882 PAGE 222. THE AREA OF THE PARCEL IS 85,591 SQ. FT. (1.966 ACRES).
  - THE SUBJECT PROPERTY IS LOCATED IN THE HIGH DENSITY RESIDENTIAL 'R-15' ZONING DISTRICT.
  - THE EXISTING PARCEL IS DEVELOPED AS A SINGLE-FAMILY RESIDENCE. THE APPLICANT IS PROPOSING TO DEMOLISH THE EXISTING BUILDING AND IMPROVEMENTS AND CONSTRUCT A NEW FOUR-STORY, 14,063 SQ. FT. MULTI-FAMILY RESIDENTIAL BUILDING, CONSISTING OF 77 ONE-BEDROOM UNITS AND 3 TWO-BEDROOM UNITS FOR A TOTAL OF 80 UNITS. SITE IMPROVEMENTS WILL INCLUDE A NEW TWO-WAY ACCESS DRIVE FROM HOPMEADOW ROAD (CT ROUTE 10), A NEW 94 VEHICLE PARKING LOT, NEW UTILITY CONNECTIONS, NEW LANDSCAPING IMPROVEMENTS, AND A NEW STORMWATER MANAGEMENT SYSTEM. THE PROPOSED DEVELOPMENT WILL COMPLY WITH CONNECTICUT GENERAL STATUTE § 8-309 FOR AN AFFORDABLE HOUSING DEVELOPMENT.
  - THE PURPOSE OF THESE PLANS IS FOR REVIEW BY THE TOWN OF SIMSBURY INLAND WETLANDS & WATERCOURSES COMMISSION FOR A WETLANDS PERMIT, THE TOWN OF SIMSBURY PLANNING & ZONING COMMISSION FOR A SITE PLAN APPLICATION, AND THE CONNECTICUT DEPARTMENT OF TRANSPORTATION FOR WORK WITHIN THE CT ROUTE 10 RIGHT-OF-WAY. THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND ARE NOT TO BE USED FOR CONTRACT DOCUMENTS.
  - REFER TO ARCHITECTURAL DRAWINGS FOR PROPOSED BUILDING INFORMATION.

- SITE NOTES:**
- ALL SITE LIGHTING SHALL BE FULL CUT OFF FIXTURES AND ARRANGED TO MINIMIZE GLARE BEYOND PROPERTY BOUNDARY AND SHALL PROVIDE ADEQUATE GROUND LEVEL ILLUMINATION FOR SAFE VEHICULAR AND PEDESTRIAN CIRCULATION.
  - ALL WORK TO CONFORM TO THE TOWN OF SIMSBURY, CT CONSTRUCTION STANDARDS.
  - ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED IN THE LOCATIONS SHOWN AND IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.). ALL PARKING LOT STRIPING (EXCEPT FIRE LANE MARKINGS) SHALL BE INSTALLED WITH DURABLE WHITE PAVEMENT MARKING PAINT. THE HANDICAP PARKING SYMBOLS SHALL BE WHITE WITH STANDARD HANDICAP BLUE BACKGROUNDS.
  - FIRE LANES, IF REQUESTED BY THE LOCAL FIRE MARSHALL, SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH TOWN OF SIMSBURY FIRE DEPARTMENT.
  - ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, ASPHALT, STONE SURFACE OR WALKS SHALL BE LANDSCAPED OR GRASSED. GRASSED AREAS SHALL BE LOAMED (4" MIN) FERTILIZED, SEEDED AND MULCHED AS REQUIRED TO SUIT SOIL CONDITIONS.
  - ANY AND ALL SIGNAGE SHALL BE REVIEWED AND APPROVED BY THE TOWN PLANNER/ZONING OFFICIAL AND/OR PLANNING & ZONING COMMISSION PRIOR TO INSTALLATION. NO UNAPPROVED SIGNAGE SHALL BE PLACED ON LIGHT POLES, BUILDINGS, OR GROUNDS SUBJECT TO THIS APPROVAL.
  - TRASH COLLECTION SHALL BE LIMITED TO 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY.
  - HOURS OF CONSTRUCTION SHALL BE LIMITED TO 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY, AND 8:00 A.M. TO 6:00 P.M. SATURDAY. NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE ON SUNDAYS. ADDITIONALLY, NO EXTERIOR LIGHTING FOR CONSTRUCTION PURPOSES, FREESTANDING OR OTHERWISE, IS APPROVED WITH THIS APPLICATION.
  - DELIVERIES OF MATERIALS/EQUIPMENT TO THE SITE RELATED TO THIS CONSTRUCTION PROJECT ARE LIMITED TO 7:00 A.M. TO 5:00 P.M. MONDAY TO SATURDAY.
  - PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY, AN AS-BUILT DRAWING SHALL BE SUBMITTED FOR THE FILE.

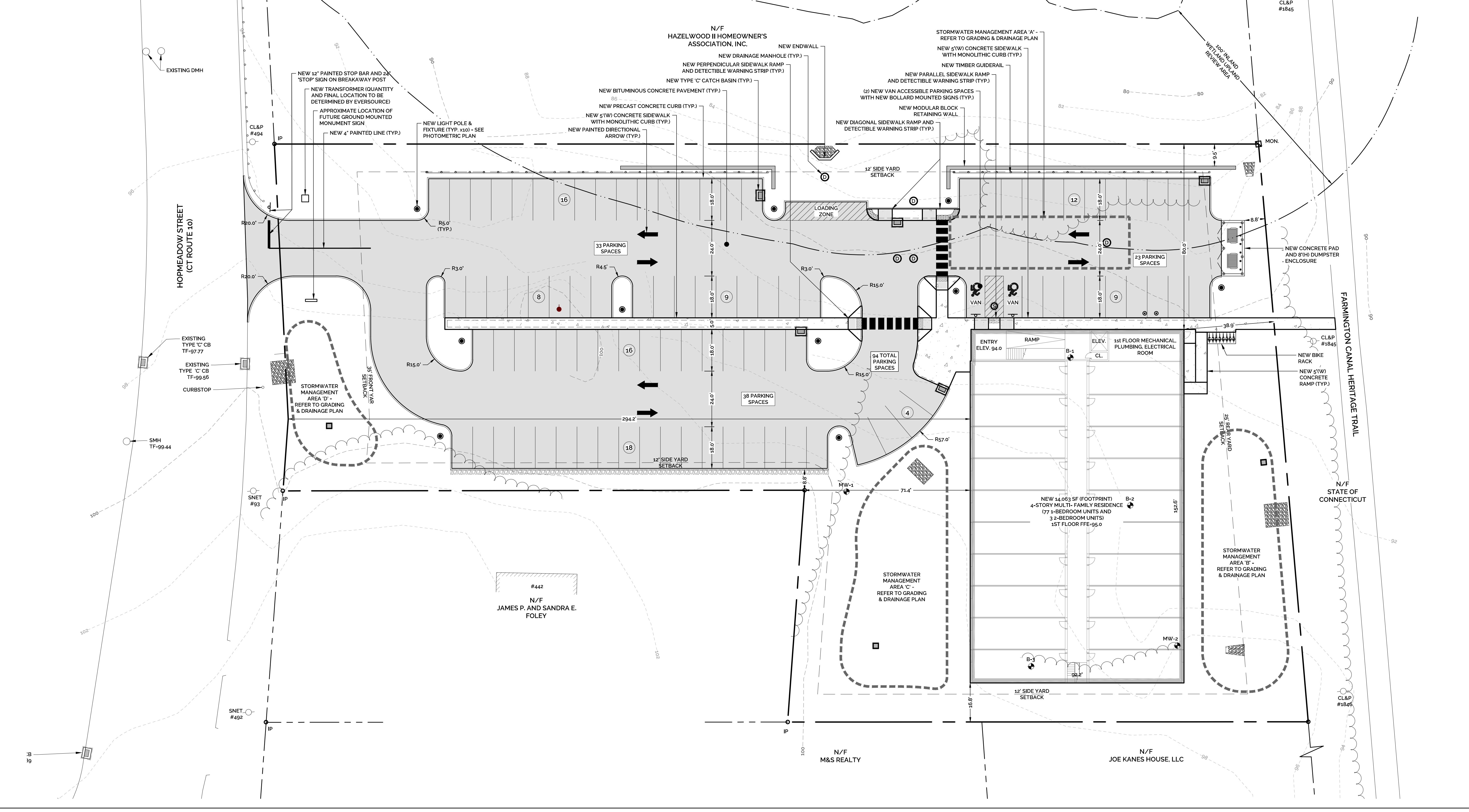
- GENERAL CONSTRUCTION NOTES:**
- THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 800-922-4455 TO MARK OUT ALL UNDERGROUND UTILITIES A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY. CONTRACTOR SHALL VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. IF UTILITIES DIFFER FROM THOSE SHOWN ON THIS PLAN, ENGINEER SHALL BE NOTIFIED.
  - ALL PROPERTY LINES SHALL BE VERIFIED IN THE FIELD. NO PRIVATE PROPERTY SHALL BE DISTURBED UNLESS PROPER RIGHTS ARE OBTAINED PRIOR TO CONSTRUCTION.
  - THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
  - THE CONTRACTOR SHALL OBTAIN, REVIEW AND ADHERE TO ALL REQUIREMENTS AND ANY CONDITIONS OF APPROVAL OF THE TOWN OF SIMSBURY.
  - EXISTING DRAINAGE PATTERNS SHALL BE SUBSTANTIALLY MAINTAINED. THE CONTRACTOR SHALL GRADE THE PROPERTY IN SUCH A MANNER TO MAINTAIN EXISTING LOCAL DRAINAGE PATTERNS AND TO PREVENT EXCESS RUNOFF AND/OR PONDING ON ADJACENT PROPERTIES BOTH DURING AND AFTER CONSTRUCTION.
  - A CONNECTICUT DEPARTMENT OF TRANSPORTATION HIGHWAY ENCROACHMENT PERMIT IS REQUIRED FOR ALL IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO APRONS, CURB CUTS, UTILITY LATERALS AND ROADWAY PAVEMENT PATCHING, WITHIN THE STATE RIGHT-OF-WAY.

- ZONING NOTES:**
- PER SECTION 17.4 OF THE SIMSBURY ZONING REGULATIONS, MAXIMUM BUILDING HEIGHT IS MEASURED FROM THE AVERAGE FINISHED GRADE AT THE PERIMETER OF THE BUILDING TO THE HIGHEST POINT OF THE BUILDING.
    - THE ELEVATION OF THE AVERAGE FINISHED GRADE AT THE PERIMETER OF THE BUILDING IS 94.7
    - THE ELEVATION OF THE TOP OF THE PARAPET IS 94.0 (ENTRY ELEVATION) + 42.75 (HEIGHT TO TOP OF PARAPET - SEE ARCHITECTURAL PLANS) = 136.75
    - THEREFORE, THE HEIGHT OF THE BUILDING = 136.75 - 94.2 = 42.55
  - PARKING CALCULATION:
    - PER SECTION 10.2 OF THE SIMSBURY ZONING REGULATIONS, TWO PARKING SPACES SHALL BE PROVIDED FOR EACH DWELLING UNIT. THEREFORE, 80 UNITS x 2 SPACES/UNIT = 160 PARKING SPACES REQUIRED
    - PROVIDED: 94 PARKING SPACES

| ZONING DATA TABLE                               |                    |                           |
|---|--------------------|---------------------------|
| HIGH DENSITY RESIDENTIAL 'R-15' ZONING DISTRICT |                    |                           |
| ITEM  | REQUIRED           | PROVIDED                  |
| MIN. LOT AREA                                   | 15,000 SQ. FT.     | 85,591 SQ. FT.            |
| LOT FRONTAGE                                    | 100 FT.            | 149.91 FT.                |
| FRONT YARD SETBACK                              | 35 FT.             | 294.2 FT.                 |
| SIDE YARD SETBACK                               | 12 FT.             | 80.0 FT. (N) 18.8 FT. (S) |
| REAR YARD SETBACK                               | 25 FT.             | 38.9 FT.                  |
| MAX. BUILDING HEIGHT (SEE ZONING NOTE #1)       | 35 FT.             | 42.55 FT.                 |
| IMPERVIOUS COVERAGE                             | N/A                | 33,009 SQ. FT.            |
| MIN. REQUIRED PARKING (SEE ZONING NOTE #2)      | 160 PARKING SPACES | 94 PARKING SPACES         |

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 Suite 201  
 Mystic, CT 06355  
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 www.hh-engineers.com

| REV. | DATE | DESCRIPTION OF REVISION |
|------|------|-------------------------|
|      |      |                         |
|      |      |                         |
|      |      |                         |
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**SITE LAYOUT PLAN**  
**VESSEL MULTI-FAMILY HOUSING**  
 PROPERTY ADDRESS  
 446 HOPMEADOW STREET, SIMSBURY, CT 06089  
 PREPARED FOR  
**VESSEL TECHNOLOGIES, INC.**  
 46 WEST 55TH STREET, NEW YORK, NY 10019

SCALE IN FEET  
 20 10 0 10 20  
 SCALE: 1" = 20'

PROJECT NO: 2022-0013  
 SCALE: 1" = 20'

DRAWN BY: SMM  
 DATE: 12/16/2022

CHECKED BY: SMM  
 DATE: 12/16/2022

**DRAWING SL-1**

SHEET NUMBER: 2 OF 12

Z:\SIMSBURY\ENGINEERING ASSOCIATES\PROJECTS\2022\2022-0013 - VESSEL - 446 HOPMEADOW ST, SIMSBURY\DWGS\03-SITE LAYOUT\PLANDWG1.dwg; SITE LAYOUT PLAN.DWG; 12/16/2022 1:48 PM; Plotter: 12/16/2022 1:53 PM

**GRADING & DRAINAGE NOTES:**

- CONTRACTOR SHALL CLEAN ALL EXISTING AND PROPOSED STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
- THE SITE CONTRACTOR SHALL REVIEW THE SITE GRADING AND FEATURES TO ENSURE THAT THE PROPOSED WORK IS CONSISTENT WITH THE EXISTING CONDITIONS AS PRESENTED ON THE PLANS. AT LEAST ONE NEW BENCHMARK WILL NEED TO BE ESTABLISHED ON THE SITE PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY ALL EXISTING PIPE CONNECTIONS AND INVERTS. ANY CONFLICTS SHOULD BE EXPRESSED TO OWNER AND THE DESIGN ENGINEER.

**GENERAL CONSTRUCTION NOTES:**

- THE LOCATIONS OF SUBSURFACE UTILITIES SHOWN HEREON ARE APPROXIMATE. THE ACTUAL LOCATION OF SUBSURFACE UTILITIES MAY VARY FROM THOSE INDICATED AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN.
- THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 800-922-4455 TO MARK OUT ALL UNDERGROUND UTILITIES A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY. CONTRACTOR SHALL VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. IF UTILITIES DIFFER FROM THOSE SHOWN ON THIS PLAN, ENGINEER SHALL BE NOTIFIED.
- ALL PROPERTY LINES SHALL BE VERIFIED IN THE FIELD. NO PRIVATE PROPERTY SHALL BE DISTURBED UNLESS PROPER RIGHTS ARE OBTAINED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN REVIEW AND ADHERE TO ALL REQUIREMENTS AND ANY CONDITIONS OF APPROVAL OF THE TOWN OF SIMSBURY.
- EXISTING DRAINAGE PATTERNS SHALL BE SUBSTANTIALLY MAINTAINED. THE CONTRACTOR SHALL GRADE THE PROPERTY IN SUCH A MANNER TO MAINTAIN EXISTING LOCAL DRAINAGE PATTERNS AND TO PREVENT EXCESS RUNOFF AND/OR PONDING ON ADJACENT PROPERTIES BOTH DURING AND AFTER CONSTRUCTION.
- A CONNECTICUT DEPARTMENT OF TRANSPORTATION HIGHWAY ENCROACHMENT PERMIT IS REQUIRED FOR ALL IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO APRONS, CURB CUTS, UTILITY LATERALS AND ROADWAY PAVEMENT PATCHING, WITHIN THE STATE RIGHT-OF-WAY.

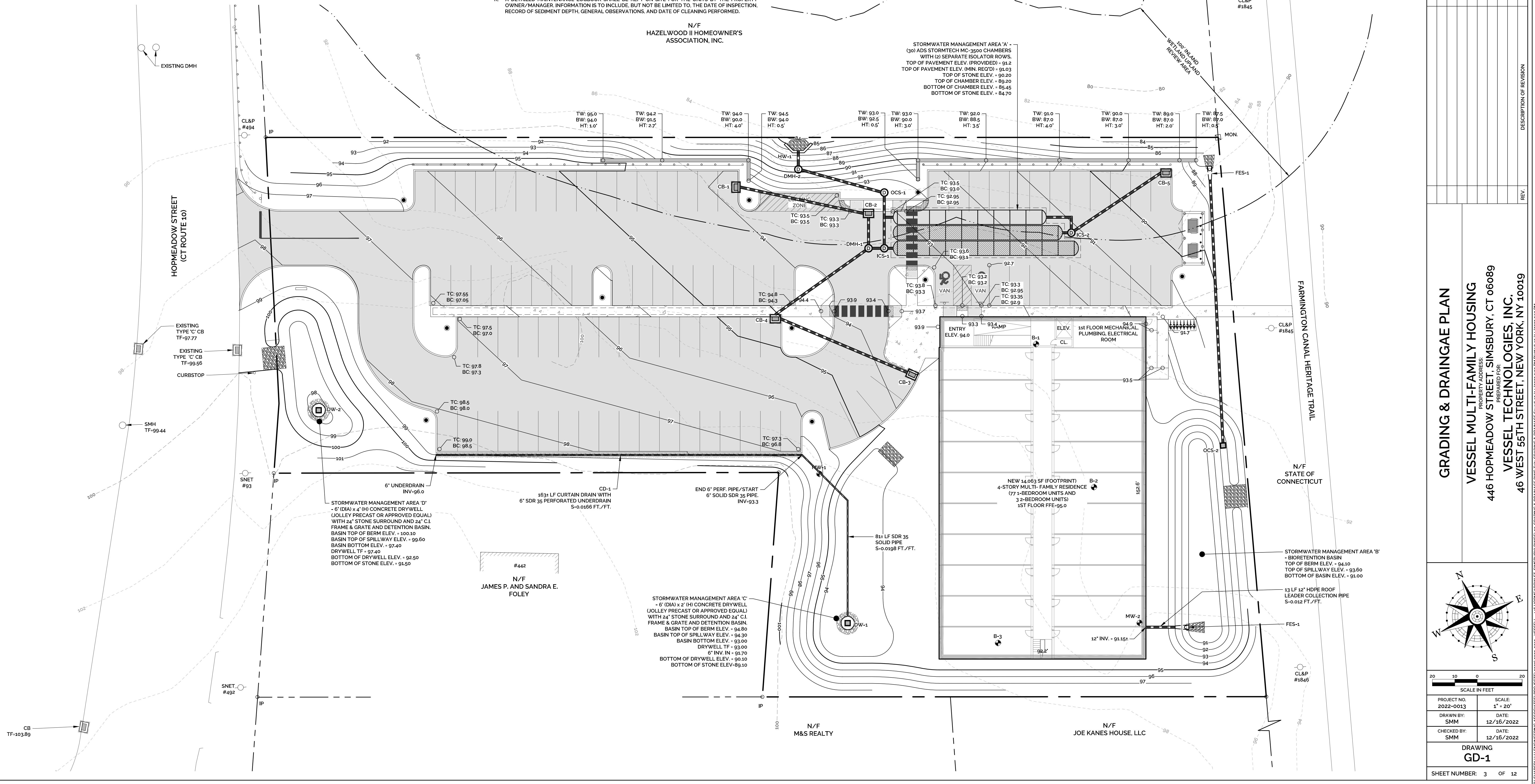
**STORMWATER MANAGEMENT SYSTEM MAINTENANCE PLAN:**

- GENERAL
  - THE ACCESS DRIVE AND PARKING AREAS SHOULD BE SWEEPED AT LEAST ONCE PER YEAR, PREFERABLY AFTER THE END OF THE WINTER SANDING SEASON.
  - CATCH BASINS AND MANHOLES
    - A CONNECTICUT-LICENSED HAULER SHALL PUMP THE SUMPS OF ON-SITE CATCH BASINS AND MANHOLES, AND SHALL DISPOSE OF THE PUMPING LEGALLY. ROAD SAND MAY BE REUSED FOR WINTER SANDING, BUT MAY NOT BE STORED ON-SITE. AS PART OF THE HAULING CONTRACT, THE HAULER SHALL NOTIFY THE PROPERTY OWNER IN WRITING WHERE THE MATERIAL IS BEING DISPOSED.
    - EACH CATCH BASIN SHALL BE INSPECTED EVERY FOUR MONTHS, WITH ONE INSPECTION OCCURRING DURING THE MONTH OF APRIL. ANY DEBRIS OCCURRING WITHIN ONE FOOT FROM THE BOTTOM OF EACH SUMP SHALL BE REMOVED BY VACUUM "VACTOR" TYPE OF MAINTENANCE EQUIPMENT.
- STORMTECH UNDERGROUND INFILTRATION SYSTEM
  - THE ISOLATOR ROWS SHALL BE CLEANED AT THE END OF CONSTRUCTION ONCE THE CONTRIBUTING AREAS ARE FULLY STABILIZED. FOR THE FIRST YEAR OF OPERATION FOLLOWING CONSTRUCTION, THE CHAMBER ROWS SHALL BE INSPECTED ONCE EVERY 6 MONTHS.
  - AFTER THE FIRST YEAR OF OPERATION, THE CHAMBERS SHALL BE INSPECTED A MINIMUM OF ONCE PER YEAR. IF UPON VISUAL INSPECTION IT IS FOUND THAT SEDIMENT HAS ACCUMULATED, A STADIA ROD SHOULD BE INSERTED TO DETERMINE THE DEPTH OF THE SEDIMENT. WHEN THE AVERAGE DEPTH OF ACCUMULATION EXCEEDS 3", A CLEAN-OUT SHOULD BE PERFORMED AND PROPERLY DISPOSED OFF-SITE. CLEAN-OUT SHOULD BE ACCOMPLISHED USING A JETVAC PROCESS.
  - A DETAILED MAINTENANCE LOGBOOK SHALL BE KEPT ON-SITE FOR THE UNITS BY THE PROPERTY OWNER/MANAGER. INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE DATE OF INSPECTION, RECORD OF SEDIMENT DEPTH, GENERAL OBSERVATIONS, AND DATE OF CLEANING PERFORMED.
- BIORETENTION BASIN
  - PRUNE SHRUBS AS NEEDED.
  - BASEIN FLOOR/SIDE SLOPES SHALL BE MOWED 6" TO 3" AS NEEDED. GRASS CLIPPINGS, LEAVES AND ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED DURING THE SUMMER. HOWEVER, PLANT MATTER SHALL BE LEFT IN PLACE OVER WINTER MONTHS TO INSULATE THE SOIL AND ADD ORGANIC MATTER TO THE SOIL. REMOVAL CRITERIA SHALL INCLUDE WHEN PLANT MATTER IS SMOTHERING OR KILLING VEGETATION AND AESTHETICS.
  - REMOVE SEDIMENT GREATER THAN 1/4 INCH DEEP IN MARCH-APRIL IN THE FILTER MEDIA BED IN A MANNER TO MINIMIZE DAMAGE TO VEGETATION.
  - INSPECT SOIL AND REPAIR ERODED AREAS SEASONALLY OR AS NECESSARY.
  - NO INVASIVE SPECIES (INCLUDING ROOTS) THAT HAVE BECOME ESTABLISHED WITHIN THE BASIN AND EMBANKMENTS.
  - IF THERE IS AN ACCUMULATION OF ORGANIC DEBRIS OR SEDIMENT ON THE FLOOR OF THE BASIN, OR IF PONDING WATER IS REGULARLY OBSERVED MORE THAN 48 HOURS AFTER A RAINFALL EVENT, THE TOP 6" SHALL BE REMOVED AND THE EXPOSED SOIL SURFACE ROTOTILLED TO A DEPTH OF 12". SEDIMENTATION SHOULD BE REMOVED WHEN IT IS VISIBLY DRY AND READILY SEPARATES FROM THE BASIN FLOOR TO MINIMIZE SMEARING. AFTER THIS WORK HAS BEEN DONE, THE BOTTOM OF THE BASIN SHALL BE RESTORED TO ITS ORIGINAL CONDITION.
  - NO PESTICIDES OR NON-ORGANIC FERTILIZERS SHALL BE USED IN AREAS DRAINING TO THE BIORETENTION BASIN.
- DRYWELLS AND COLLECTION BASINS
  - THE DRYWELLS SHALL BE CLEANED AT THE END OF CONSTRUCTION ONCE THE CONTRIBUTING AREAS ARE FULLY STABILIZED. FOR THE FIRST YEAR OF OPERATION FOLLOWING CONSTRUCTION, THE DRYWELLS SHALL BE INSPECTED ONCE EVERY 6 MONTHS.
  - AFTER THE FIRST YEAR OF OPERATION, THE DRYWELLS SHALL BE INSPECTED A MINIMUM OF ONCE PER YEAR. IF UPON VISUAL INSPECTION IT IS FOUND THAT SEDIMENT HAS ACCUMULATED, A STADIA ROD SHOULD BE INSERTED TO DETERMINE THE DEPTH OF THE SEDIMENT. WHEN THE AVERAGE DEPTH OF ACCUMULATION EXCEEDS 3", A CLEAN-OUT SHOULD BE PERFORMED AND PROPERLY DISPOSED OFF-SITE. CLEAN-OUT SHOULD BE ACCOMPLISHED USING A JETVAC PROCESS.
  - COLLECTION BASINS SHALL BE ROUTINELY CHECKED FOR SEDIMENT ACCUMULATION, TRASH, AND DEBRIS. BASIN SHALL BE MOWED TO 4" AS NEEDED. GRASS CLIPPINGS, LEAVES AND ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED. REMOVE ANY INVASIVE SPECIES (INCLUDING ROOTS) THAT HAVE BECOME ESTABLISHED WITHIN THE BASIN AND EMBANKMENTS.
  - A DETAILED MAINTENANCE LOGBOOK SHALL BE KEPT ON-SITE FOR THE UNITS BY THE PROPERTY OWNER/MANAGER. INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE DATE OF INSPECTION, RECORD OF SEDIMENT DEPTH, GENERAL OBSERVATIONS, AND DATE OF CLEANING PERFORMED.

| DRAINAGE STRUCTURE TABLE |                         |              |   |
|--------------------------|-------------------------|--------------|---|
| STRUCTURE ID             | STRUCTURE TYPE          | TOP OF FRAME | INVERT  |
| CB-1                     | TYPE 'C' CB             | 93.80        | 86.50 (12" OUT) (E)   |
| CB-2                     | TYPE 'C' CB             | 93.30        | 85.90 (12" IN) (W)<br>85.90 (12" OUT) (S)                         |
| DMH-1                    | DRAINAGE MANHOLE        | 93.40        | 85.70 (12" IN) (W & N)<br>85.70 (12" OUT) (E)                     |
| ICS-1                    | INLET CONTROL STRUCTURE | 93.30        | 85.60 (12" IN) (W)<br>85.57 (12" OUT) (N)                         |
| CB-3                     | TYPE 'C' CB             | 93.30        | 86.90 (12" OUT) (NW)  |
| CB-4                     | TYPE 'C' CB             | 94.40        | 86.20 (12" IN) (SE)<br>86.20 (12" OUT) (NE)                       |
| CB-5                     | TYPE 'C' CB             | 89.00        | 86.00 (12" OUT) (S)   |
| ICS-2                    | INLET CONTROL STRUCTURE | 91.20        | 85.60 (12" IN) (NE)<br>85.57 (12" OUT) (W)<br>85.57 (12" OUT) (N) |

| DRAINAGE STRUCTURE TABLE       |  |              |  |
|--------------------------------|--|--------------|--|
| STRUCTURE ID                   | STRUCTURE TYPE                                       | TOP OF FRAME | INVERT   |
| STORMWATER MANAGEMENT AREA 'A' | ADS STORMTECH MC-3500 SUBSURFACE INFILTRATION SYSTEM | ---          | 85.57 (12" IN)<br>85.57 (12" OUT)                                  |
| OCS-1                          | OUTLET CONTROL STRUCTURE                             | 93.60        | 85.57 (12" IN) (S)<br>84.70 (12" OUT) (W)                          |
| DMH-2                          | DRAINAGE MANHOLE                                     | 89.50        | 84.30 (12" IN) (E)<br>84.25 (12" OUT) (N)                          |
| EW-1                           | CONCRETE ENDWALL                                     | 87.00 (TW)   | 84.10  |
| STORMWATER MANAGEMENT AREA 'B' | BIORETENTION BASIN                                   | ---          | 94.10 (TOP OF BERM)<br>93.60 (SPILLWAY)<br>91.00 (BOTTOM OF BASIN) |
| OCS-2                          | OUTLET CONTROL STRUCTURE                             | 93.40        | 90.00 (12" OUT) (W)  |
| OUTLET                         | ---  | 000          | 87.00 (12")  |
| CD-1                           | CURTAIN DRAIN  | ---          | 95.00 (6" (W)<br>93.30 (6" (E)                                     |

| DRAINAGE PIPE TABLE                          |             |                                 |           |               |
|--|-------------|---------------------------------|-----------|---------------|
| STRUCTURES                                   | LENGTH (FT) | MATERIAL                        | PIPE SIZE | SLOPE (FT/FT) |
| CB-1 - CB-2                                  | 57          | CORRUGATED HDPE SMOOTH INTERIOR | 12"       | S=0.011       |
| CB-2 - DMH-1                                 | 12          | CORRUGATED HDPE SMOOTH INTERIOR | 12"       | S=0.017       |
| DMH-1 - ICS-1                                | 4           | CORRUGATED HDPE SMOOTH INTERIOR | 12"       | S=0.025       |
| CB-3 - CB-4                                  | 62          | CORRUGATED HDPE SMOOTH INTERIOR | 12"       | S=0.011       |
| CB-4 - DMH-1                                 | 50          | CORRUGATED HDPE SMOOTH INTERIOR | 12"       | S=0.010       |
| CB-5 - ICS-2                                 | 47          | CLASS IV RCP                    | 12"       | S=0.009       |
| ADS STORMTECH MC-3500 OUTLET MANHOLE - OCS-1 | 22          | CORRUGATED HDPE SMOOTH INTERIOR | 12"       | S=0.000       |
| OCS-1 - DMH-2                                | 37          | CORRUGATED HDPE SMOOTH INTERIOR | 12"       | S=0.011       |
| DMH-2 - OUTLET ENDWALL                       | 7           | CORRUGATED HDPE SMOOTH INTERIOR | 12"       | S=0.021       |
| OCS-2 - OUTLET                               | 125         | CORRUGATED HDPE SMOOTH INTERIOR | 12"       | S=0.000       |
| CD-1   | 163         | SDR35 PERFORATED PVC PIPE       | 6"        | S=0.017       |
| CD-1 - DW-1                                  | 81          | SDR35 SOLID PVC PIPE            | 6"        | S=0.020       |



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**GRADING & DRAINAGE PLAN**  
**VESSEL MULTI-FAMILY HOUSING**  
 PROPERTY ADDRESS: 446 HOPMEADOW STREET, SIMSBURY, CT 06089  
 PREPARED FOR: VESSEL TECHNOLOGIES, INC.  
 46 WEST 55TH STREET, NEW YORK, NY 10019

STAMP: [REVISIONS TABLE]

DATE: [REVISIONS TABLE]

DESCRIPTION OF REVISION: [REVISIONS TABLE]

REV: [REVISIONS TABLE]

APPR: [REVISIONS TABLE]

SCALE IN FEET: 1" = 20'

PROJECT NO: 2022-0013  
 SCALE: 1" = 20'  
 DRAWN BY: SMM  
 DATE: 12/16/2022  
 CHECKED BY: SMM  
 DATE: 12/16/2022

DRAWING: GD-1  
 SHEET NUMBER: 3 OF 12

2: SIMSBURY ENGINEERING ASSOCIATES PROJECTS \2022\2022-0013 - VESSEL - 446 HOPMEADOW ST. SIMSBURY CT. GRADING & DRAINAGE.DWG (17:47:26) 12/16/2022 9:10 AM

**UTILITY NOTES:**

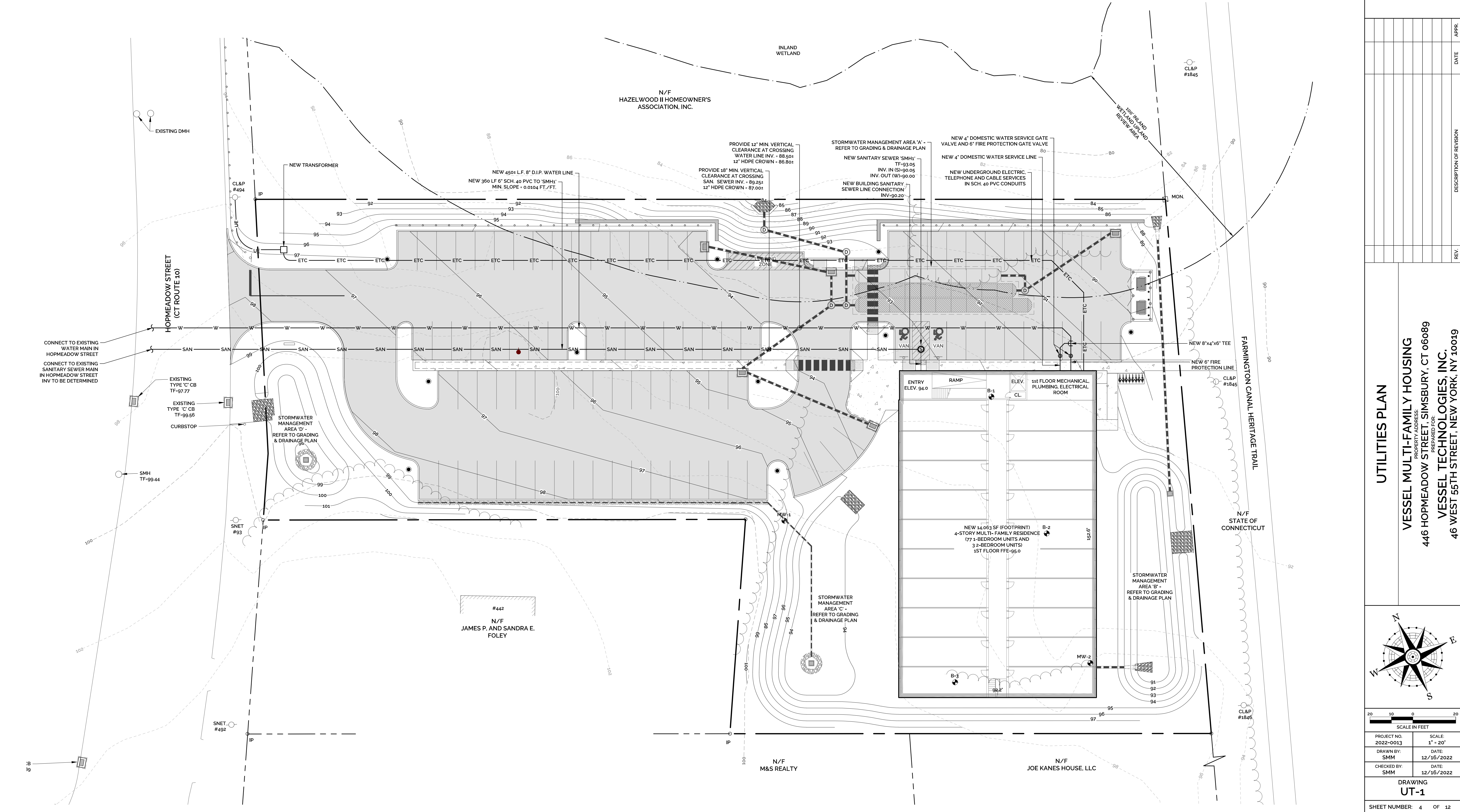
1. ALL NEW UTILITIES, INCLUDING CATV, WILL BE LOCATED UNDERGROUND.
2. ALL UTILITY WORK TO CONFORM TO TOWN OF SIMSBURY STANDARDS AND POLICIES AND PRACTICES OF THE DEPARTMENT OF PUBLIC WORKS.
3. ELECTRIC, TELEPHONE, CABLE, WATER, AND SANITARY SEWER SERVICES SHALL CONFORM TO THE POLICIES AND PRACTICES OF THE APPROPRIATE UTILITY AUTHORITY. ELECTRICAL SERVICES ARE PROVIDED BY EVERSOURCE. WATER SERVICES ARE PROVIDED BY AQUARIUM WATER COMPANY. SANITARY SEWER SERVICES ARE PROVIDED BY THE TOWN OF SIMSBURY.
4. ALL UTILITIES AND ON-SITE STORM DRAINAGE SHALL BE STRUCTURALLY SUPPORTED TO MINIMIZE DISRUPTION FROM SETTLEMENT OF UNDERLYING SOIL.
5. SANITARY SEWER SERVICES SHALL BE SDR 35 PVC PIPE. SEWER MANHOLES SHALL BE 5' DIA. PRECAST CONCRETE WITH HEAVY DUTY CAST IRON GRATES.
6. UTILITY SERVICE SIZES, MATERIALS, AND INSTALLATIONS SHALL BE APPROVED AND INSPECTED BY THE APPROPRIATE UTILITY COMPANY.
7. LIGHTING SHALL BE DIRECTED INTERNALLY TOWARDS PARKING AREAS. LIGHT STANDARDS, LUMINARIES, WIRING & LOCATION SHALL BE DESIGNED BY A LICENSED ELECTRICAL ENGINEER.
8. PROVIDE MINIMUM VERTICAL SEPARATION OF 12" FROM WATER MAIN TO DRAINAGE PIPING AND 18" TO SANITARY SEWER PIPING.
9. LOCATION AND SIZE OF ALL BUILDING UTILITY CONNECTIONS SHALL BE COORDINATED WITH BUILDING ARCHITECTURAL PLANS AND APPROPRIATE UTILITY AUTHORITY.

**UTILITY NOTES CONTINUED:**

10. WATER SERVICE INSTALLATION NOTES:
  - A. ALL WATER MAIN AND SERVICE INSTALLATIONS SHALL CONFORM TO THE POLICIES AND PRACTICES OF THE TOWN OF SIMSBURY DEPARTMENT OF PUBLIC WORKS AND ENGINEERING DIVISION.
  - B. APPROVED BACKFLOW PREVENTERS ARE REQUIRED ON ALL FIRE SPRINKLER AND DOMESTIC WATER LINES.
  - C. MINIMUM COVER OVER TOP OF WATER MAIN SHALL BE 4'-6" FROM FINISH GRADE.
  - D. PIPE SEPARATIONS:
    - 10' MINIMUM BETWEEN WATER AND SANITARY SEWER
    - 10' MINIMUM BETWEEN WATER AND BUILDINGS
    - 5' MINIMUM BETWEEN WATER AND CATCH BASINS OR DRAIN PIPES
  - E. SITE MUST BE AT SUBGRADE BEFORE WATER UTILITIES CAN BE INSTALLED.
  - F. ARCHITECTURAL PLANS SHALL SHOW UTILITY ROOM, ENTRY POINT OF WATER SERVICE, AND METER LOCATIONS.
  - G. ALL BRANCH LINE VALVES TO BE LOCATED AS CLOSE AS POSSIBLE TO MAIN LINES.
11. MINIMUM 6" SEPARATION BETWEEN ELECTRIC AND ALL OTHER PIPES SUCH AS WATER, SEWER AND DRAINS. ALL ELECTRIC FACILITIES SUCH AS CONDUITS AND PRIMARY & SECONDARY HANDHOLES SHALL CONFORM TO THE REQUIREMENTS OF EVERSOURCE.

**GENERAL CONSTRUCTION NOTES:**

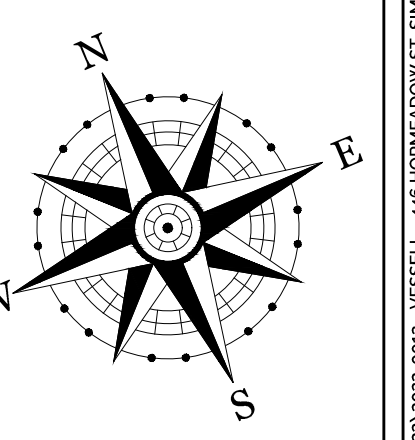
1. THE LOCATIONS OF SUBSURFACE UTILITIES SHOWN HEREON ARE APPROXIMATE. THE ACTUAL LOCATION OF SUBSURFACE UTILITIES MAY VARY FROM THOSE INDICATED AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN.
2. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 800-922-4455 TO MARK OUT ALL UNDERGROUND UTILITIES A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY. CONTRACTOR SHALL VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. IF UTILITIES DIFFER FROM THOSE SHOWN ON THIS PLAN, ENGINEER SHALL BE NOTIFIED.
3. ALL PROPERTY LINES SHALL BE VERIFIED IN THE FIELD. NO PRIVATE PROPERTY SHALL BE DISTURBED UNLESS PROPER RIGHTS ARE OBTAINED PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL OBTAIN, REVIEW AND ADHERE TO ALL REQUIREMENTS AND ANY CONDITIONS OF APPROVAL OF THE TOWN OF SIMSBURY.
6. EXISTING DRAINAGE PATTERNS SHALL BE SUBSTANTIALLY MAINTAINED. THE CONTRACTOR SHALL GRADE THE PROPERTY IN SUCH A MANNER TO MAINTAIN EXISTING LOCAL DRAINAGE PATTERNS AND TO PREVENT EXCESS RUNOFF AND/OR PONDING ON ADJACENT PROPERTIES BOTH DURING AND AFTER CONSTRUCTION.
7. A CONNECTICUT DEPARTMENT OF TRANSPORTATION HIGHWAY ENCROACHMENT PERMIT IS REQUIRED FOR ALL IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO APRONS, CURB CUTS, UTILITY LATERALS AND ROADWAY PAVEMENT PATCHING, WITHIN THE STATE RIGHT-OF-WAY.



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**UTILITIES PLAN**

**VESSEL MULTI-FAMILY HOUSING**  
PROPERTY ADDRESS  
**446 HOPMEADOW STREET, SIMSBURY, CT 06089**  
PREPARED FOR  
**VESSEL TECHNOLOGIES, INC.**  
**46 WEST 55TH STREET, NEW YORK, NY 10019**



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| PROJECT NO.<br>2022-0013 | SCALE<br>1" = 20'  |
| DRAWN BY:<br>SMM         | DATE<br>12/16/2022 |
| CHECKED BY:<br>SMM       | DATE<br>12/16/2022 |
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| SHEET NUMBER: 4 OF 12    |                    |

2: SIMSBURY ENGINEERING ASSOCIATES PROJECTS\2022\2022-0013 - VESSEL - 446 HOPMEADOW ST, SIMSBURY\DWGS\04-UTILITIES.DWG Date: 12/16/2022 08:58 PM Plot Date: 12/16/2022 08:58 PM



MERKUR  
SOLAR OUTDOOR

brilliance in solar lighting  
**photinus**

SPECIFICATIONS



**Source** LED  
CCT 4000K standard  
Efficiency 200lm/W  
Power Max 100W  
L80 Life > 75,000 hours  
Location Label IP67

**Solar Module Performance**  
Monocrystalline silicon cells, processed by Photinus  
4 solar modules x 150 Wp\* (12.8 x 337mm)  
Battery  
LiFePO4 / 42V, 9Ah (12.8 x 337mm)  
Operating Temperature -20°C to +60°C  
Battery Life Up to 10 years  
Protection Class IP68

**Material Finish**  
Steel pole and aluminum parts  
Galvanized and powder coat  
Weight 242.5 lb. (110kg)  
Wind Load 65.3 mph, 96 mps\*\*  
Salt Spray Test ISO 9227:2012  
Warranty 3 Years

\*Wp = Watt Peak: maximum power supplied in standard conditions  
\*\* Other wind loads available upon request

ORDER CODE

| Model  | Modules   | Head                   | C.C.T.  | Optic   | Time Management  | Height  | Wind Load   | Mounting                                       | Finish | Options |
|--------|---|------------------------|---|---|--|---|---|--|--------|---------|
| MERKUR | 150 - 4 Solar Modules<br>150PLUS - 8 Solar Modules<br>300 - 8 Solar Modules | S - Single<br>D - Dual | 40 - Standard 4000K<br>20 - 3000K<br>30 - 3000K<br>50 - 3000K | ME PLACE<br>T2 - 3000K<br>T2-L<br>T3<br>T3-B<br>T3-L<br>T4-B<br>DWC<br>SCL<br>DWCSCS<br>FW<br>VMI<br>FX | V5 - Standard Setting<br>V3 - Continuous lighting<br>V4 - Night-time reduction to 50%<br>V6 - Night-time reduction to 5% | HS - Standard Height<br>W68 - Standard 68.3' height<br>WC - Custom* | FF - Pipe Foundation<br>ABO - Anchor Base with Covering**<br>ABC - Anchor Base Closed** | D - Dark<br>[Blank] - None<br>PIR - PIR Sensor |        |         |

\*Specify desired height, consult factory  
\*\*Specify desired windload, consult factory

Example order code: MERKUR-300-S-40-DWCSCS-V5-HS-W68-ABC-PIR-D  
Merkur-Rev4-2022 +1 803 766 0481 info@photinus-lighting.us photinus-lighting.us 1

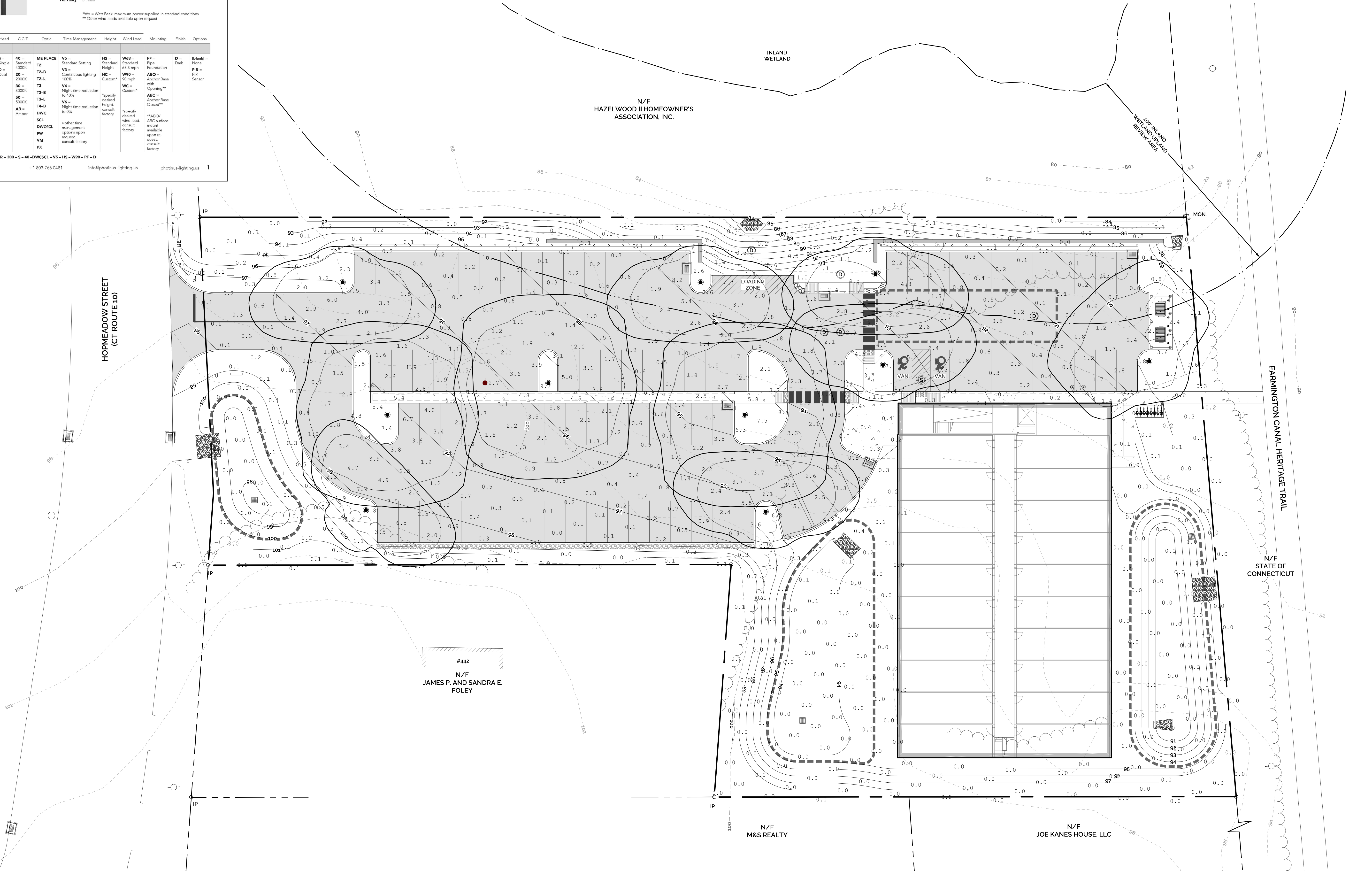
Calculation Summary

| Label     | CalcType    | Units | Avg  | Max | Min | Avg/Min | Max/Min |
|-----------|-------------|-------|------|-----|-----|---------|---------|
| Site Calc | Illuminance | Fc    | 1.08 | 9.2 | 0.0 | N.A.    | N.A.    |

GENERAL NOTES:  
1. PHOTOMETRIC PLAN PROVIDED BY ILLUMINATE.

Luminaire Schedule

| Symbol   | Qty | Label     | Arrangement | Total Lamp Lumens | LLF   | Description                               |
|----------|-----|-----------|-------------|-------------------|-------|---|
| [Symbol] | 1   | T2        | SINGLE      | N.A.              | 0.900 | Photinus Merkur-150-S-30-V5-HS-W90-xx-T2B |
| [Symbol] | 5   | T3        | SINGLE      | N.A.              | 0.900 | Photinus Merkur-150-S-30-V5-HS-W90-xx-T3B |
| [Symbol] | 1   | T4        | SINGLE      | N.A.              | 0.900 | Photinus Merkur-150-S-30-V5-HS-W90-xx-T4B |
| [Symbol] | 3   | T4 DOUBLE | BACK-BACK   | N.A.              | 0.900 | Photinus Merkur-150-D-30-V5-HS-W90-xx-T4B |



**H+H**  
ENGINEERING  
ASSOCIATES  
232 Greenmanville Avenue  
Suite 201  
Mystic, CT 06355  
860-980-8008 (C) 413-579-4488 (M)  
www.hh-engineers.com

STAMP

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**SITE PHOTOMETRIC PLAN**  
VESSEL MULTI-FAMILY HOUSING  
PROPERTY ADDRESS  
446 HOPMEADOW STREET, SIMSBURY, CT 06089  
PREPARED FOR  
VESSEL TECHNOLOGIES, INC.  
46 WEST 55TH STREET, NEW YORK, NY 10019

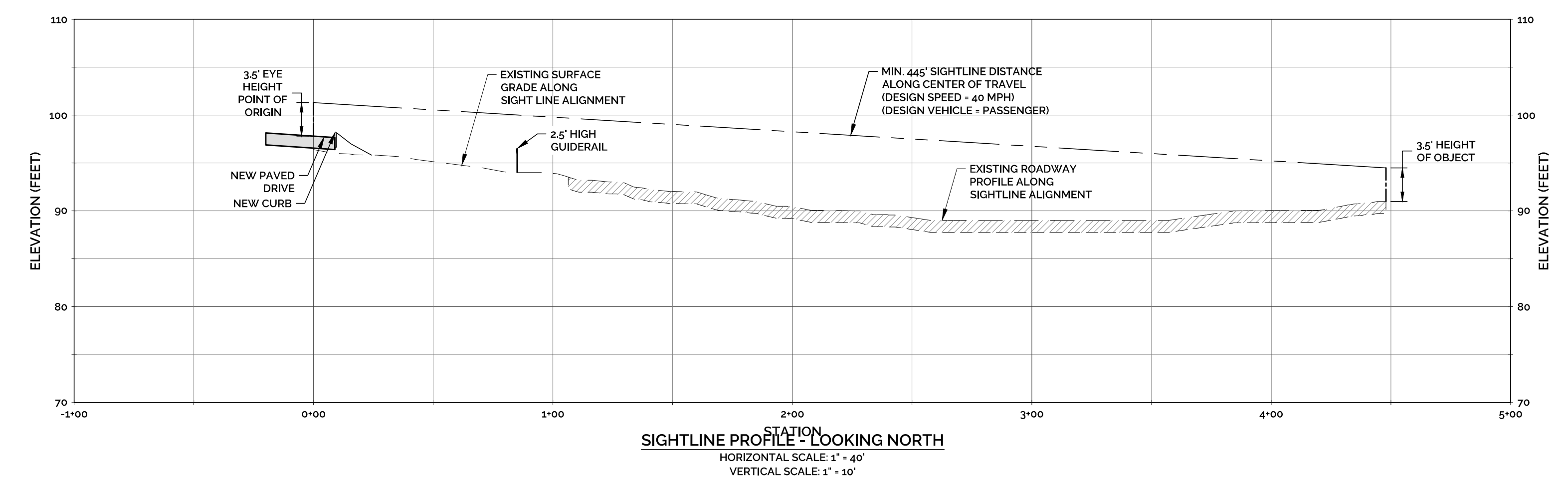
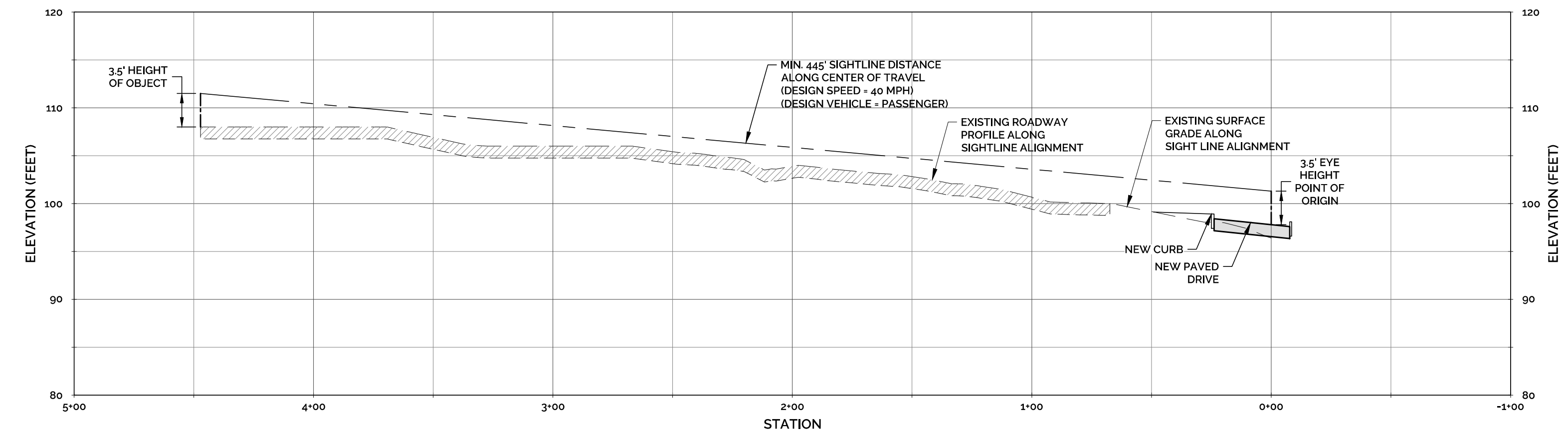
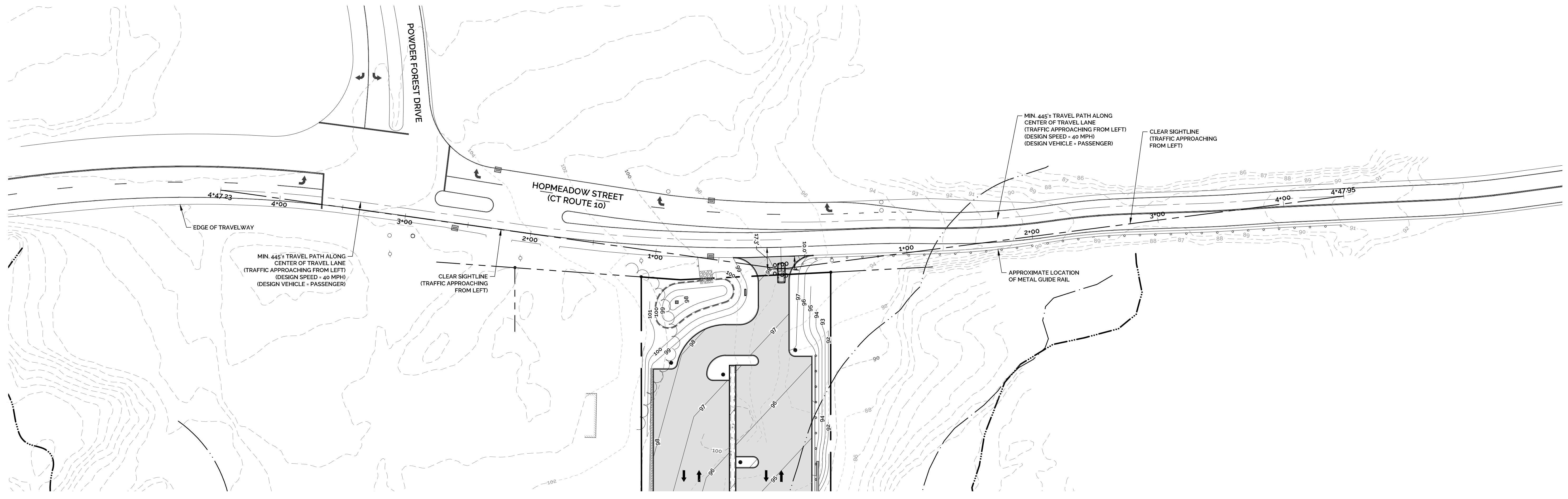
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1" = 20'

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| DRAWN BY:<br>SMM         | DATE:<br>12/16/2022 |
| CHECKED BY:<br>SMM       | DATE:<br>12/16/2022 |

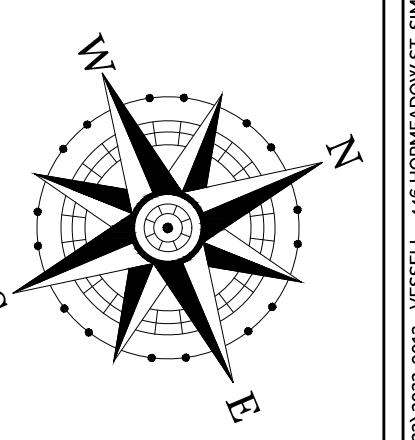
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SHEET NUMBER: 6 OF 12

Z:\SIMSBURY\H+H ENGINEERING ASSOCIATES\PROJECTS\2022\2022-0013 - VESSEL - 446 HOPMEADOW ST SIMSBURY\DWGS\PHOTOMETRIC PLAN\DWG THE PHOTO METRIC PLAN.dwg: 12/16/2022 6:57 PM Plotted: 12/16/2022 7:00 PM

| REV. | DESCRIPTION OF REVISION | DATE | APPR. |
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**SIGHTLINE DEMONSTRATION PLAN**  
VESSEL MULTI-FAMILY HOUSING  
PROPERTY ADDRESS  
446 HOPMEADOW STREET, SIMSBURY, CT 06089  
PREPARED FOR  
VESSEL TECHNOLOGIES, INC.  
46 WEST 55TH STREET, NEW YORK, NY 10019



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| PROJECT NO.<br>2022-0013 | SCALE<br>1" = 40'  |
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| CHECKED BY:<br>SMM       | DATE<br>12/16/2022 |

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SHEET NUMBER: 7 OF 12

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**SOIL EROSION & SEDIMENTATION CONTROL PLAN:**

**PROJECT DESCRIPTION**

- THE APPLICANT IS PROPOSING TO DEMOLISH THE EXISTING BUILDING AND IMPROVEMENTS AND CONSTRUCT A NEW FOUR-STORY, 140,933 SQ. FT. MULTI-FAMILY RESIDENTIAL BUILDING, CONSISTING OF 77 ONE-BEDROOM UNITS AND 3 TWO-BEDROOM UNITS FOR A TOTAL OF 80 UNITS. SITE IMPROVEMENTS WILL INCLUDE A NEW TWO-WAY ACCESS DRIVE FROM HOPMEADOW ROAD (CT ROUTE 10), A NEW 94 VEHICLE PARKING LOT, NEW UTILITY CONNECTIONS, NEW LANDSCAPING IMPROVEMENTS, AND A NEW STORMWATER MANAGEMENT SYSTEM. THE PROPOSED DEVELOPMENT WILL COMPLY WITH CONNECTICUT GENERAL STATUTE § 36-300 FOR AN AFFORDABLE HOUSING DEVELOPMENT.
- CONSTRUCTION IS ANTICIPATED TO COMMENCE IN SPRING 2023. ALL SOIL EROSION & SEDIMENTATION CONTROLS (SESC) SHALL BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITIES. ALL SESC SHALL BE MAINTAINED AND REPAIRED OR REPLACED AS NEEDED THROUGHOUT THE CONSTRUCTION DURATION. SESC SHALL BE REMOVED AND PROPERLY DISPOSED OF AS SOON AS THE SITE IS COMPLETELY STABILIZED.
- THE TOPOGRAPHY IS MODERATE, SLOPING DOWN FROM ELEVATION 102 ALONG THE SOUTHERN PROPERTY LINE TO ELEVATION 84 ALONG THE NORTHERN PROPERTY LINE. THE EXISTING SITE IS DEVELOPED AS A SINGLE-FAMILY RESIDENCE. PER NRCS SOIL MAPPING, THE UNDERLYING SOIL ON THE SITE MOSTLY CONSISTS OF HINCKLEY LOAMY SAND, HYDROLOGIC SOIL GROUP A.
- A LARGE PORTION OF THE UPLAND SOILS WILL BE DISTURBED BY EARTHWORK ACTIVITIES AND THE INTENT OF THIS SESC PLAN IS TO ESTABLISH STORMWATER CONTROLS DURING CONSTRUCTION TO PREVENT THE DISCHARGE OF SEDIMENT LADEN RUNOFF FROM ENTERING STORM DRAIN SYSTEMS, WETLANDS AND/OR WATERCOURSES.
- THE PROJECT DEVELOPMENT WILL REQUIRE DEMOLITION AND CLEARING OF APPROXIMATELY 1.9 ACRES OF AREA AND EARTHWORK TO PREPARE THE BUILDING SITE. EARTHWORK ACTIVITIES WILL EXPOSE SOILS TO EROSION DURING RAINFALL EVENTS.

**GENERAL SESC REQUIREMENTS**

- THE SITE CONTRACTOR MUST FOLLOW ALL GUIDELINES SET FORTH IN THE MANUAL ENTITLED "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION. THIS MANUAL IS ALSO KNOWN AS DEP BULLETIN 34.
- SESC MEASURES INTENDED TO MINIMIZE SOIL EROSION AND TO CONTROL SEDIMENTATION DURING CONSTRUCTION INCLUDE:
  - THE INSTALLATION OF SILT FENCE AND/OR STAKED HAYBALES ALONG THE DOWNGRADE DIRECTION OF DISTURBANCE.
  - THE IMMEDIATE STABILIZATION OF DISTURBED AREAS THROUGH THE PLACEMENT OF TEMPORARY SEED AND MULCH OR FINAL TOPSOIL, SEED AND MULCH.
  - CONSTRUCTION OF TEMPORARY SEDIMENT TRAPS.
  - THE USE OF EROSION CONTROL BLANKETS TO STABILIZED CUT AND FILL SLOPES GRADED AT 3H:1V OR STEEPER. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN ROLLMAX BIOMET C125BN AS MANUFACTURED BY NORTH AMERICAN GREEN, LOCATED AT 4609 E. BOONVILLE-NEW HARMONY ROAD, EVANSVILLE, INDIANA, 47725.
  - DEVELOPMENT OF A CONSTRUCTION OPERATIONS PLAN IN CONSIDERATION OF BASIC CONSTRUCTION SEQUENCING OUTLINED HEREIN.
- ALL ADJACENT PROPERTIES SHALL BE ADEQUATELY PROTECTED FROM SOIL EROSION AND SEDIMENTATION BOTH DURING AND AFTER CONSTRUCTION.
- CONSTRUCTION ENTRANCE SHALL BE INSTALLED BEFORE CONSTRUCTION TRAFFIC INTO AND OUT OF THE SITE BEGINS.
- THE CONTRACTOR SHALL INSTALL SILT FENCING PRIOR TO INITIATING CONSTRUCTION ACTIVITIES AND SHALL BE MAINTAINED/REPAIRED UNTIL FINAL STABILIZATION OF ALL DISTURBED AREAS.
- ALL AREAS SHALL REMAIN UNDISTURBED UNTIL IMMEDIATELY PRIOR TO SITE DEVELOPMENT.
- ALL EXISTING VEGETATION OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL BE PROTECTED. EXISTING VEGETATION SHALL BE REMOVED ONLY IN AREAS NECESSARY FOR SITE CONSTRUCTION ACTIVITIES.
- ALL CONSTRUCTION EQUIPMENT, MATERIALS AND STOCKPILES SHALL NOT BE PLACED OUTSIDE OF THE DISTURBED AREAS.
- THE CONTRACTOR SHALL SEED AND MULCH DISTURBED AREAS EXPECTED TO REMAIN UNSTABILIZED FOR A PERIOD OF MORE THAN 30 DAYS.
- THE CONTRACTOR SHALL COMPLETE PERMANENT SEEDING BETWEEN APRIL 15TH THROUGH JUNE 15TH AND AUGUST 15TH THROUGH OCTOBER 15TH. APPLY PERMANENT SOIL STABILIZATION MEASURES TO ALL GRADED AREAS WITHIN 7 DAYS OF ESTABLISHING FINAL GRADE AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET. RECOMMENDED SEED MIXTURE: FUTURA 2000 BY THE CHAS. C. HART CO. CONTAINING THE FOLLOWING VARIETIES OF PERENNIAL RYEGRASSES: FIESTA II, BLAZER II, Dasher II and EXPRESS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL SESC BEFORE, DURING AND AFTER CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF ALL EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS COMPLETELY STABILIZED.
- ALL SESC SHALL BE INSPECTED WEEKLY AND AFTER ALL RAINFALL EVENTS. ALL SESC SHALL BE REPAIRED OR REPLACED AS NECESSARY WITHIN 24 HOURS THROUGHOUT THE CONSTRUCTION DURATION.

**CONSTRUCTION SEQUENCE**

- CONTACT "CALL BEFORE YOU DIG" TO MARK OUT ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- ENSURE ALL LAND USE PERMITS HAVE BEEN SECURED. OBTAIN ALL NECESSARY PERMITS.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCE. SEDIMENT FENCE AND/OR HAY BALE BARRIERS AS SHOWN ON THE SESC PLAN.
- DISCONNECT UTILITIES ON BUILDING TO BE REMOVED.
- DEMOLISH AND REMOVE EXISTING BUILDING, STRUCTURES AND ASSOCIATED SITE IMPROVEMENTS.
- REMOVE ALL TREES, BRUSH AND STUMPS WITHIN LIMIT OF DISTURBANCE AS NECESSARY. THERE SHALL BE NO BURIAL OF CONSTRUCTION DEBRIS, BRUSH OR REMAINING MATERIAL ON SITE.
- REMOVE AND STOCKPILE ALL TOPSOIL ON SITE AND PROVIDE A SEDIMENT FENCE ON THE DOWNSLOPE SIDE. SEED STOCKPILE WITH PERENNIAL RYEGRASS AT A RATE OF 40 POUNDS PER ACRE AND MULCH WITH HAY OR STRAW. IF OUTSIDE THESE GROWING SEASONS, AREAS SHALL BE STABILIZED WITH STRAW OR HAY MULCHING AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET.
- CONSTRUCT TEMPORARY SEDIMENT TRAP. GRADE DISTURBED AREAS TO DRAIN TO THE TEMPORARY SEDIMENT TRAP USING TEMPORARY DIVERSION SWALES. NO DISTURBED SURFACES SHALL BE GRADED TOWARD THE WETLANDS.
- EXCAVATE AND/OR FILL WORK SITE TO SUBGRADE LEVEL.
  - NO ROCK CRUSHING AND/OR BLASTING IS PROPOSED. IF BLASTING IS REQUIRED FOR ROCK REMOVAL, A PRE-BLAST SURVEY SHALL BE PERFORMED. IF BLASTING AND ROCK CRUSHING ARE REQUIRED THEN APPROVAL OF THE PLANNING & ZONING COMMISSION IS REQUIRED.
  - FILL WILL BE PLACED AND COMPACTED IN 8 INCH LIFTS AND SHALL BE FREE OF BRUSH, RUBBISH, LOGS, BUILDING DEBRIS, OR ANY OTHER OBJECTIONABLE MATERIAL. CONSTRUCT RETAINING WALLS AS REQUIRED.
  - MOISTEN SOIL SURFACE PERIODICALLY WITH WATER TO MINIMIZE DUST.
- BEGIN CONSTRUCTION OF BUILDING AND INSTALL UTILITIES. MAINTAIN TEMPORARY DRAINAGE TO SEDIMENT TRAP. ADD EROSION CONTROL DEVICES AS NEEDED.
- INSTALL STORMWATER MANAGEMENT IMPROVEMENTS AND DRAINAGE STRUCTURES STARTING FROM THE MOST DOWNGRADE IMPROVEMENTS. INSTALL FILTER FABRIC AND/OR HAY BALES AT CATCH BASINS IMMEDIATELY AFTER CATCH BASIN INSTALLATION.
- PLACE AND COMPACT BASE MATERIAL TO FINAL GRADE. INSTALL PAVEMENT BASE COURSE, CURB, SIDEWALKS, STEPS, ETC.
- ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, PARKING, SIDEWALKS, ETC., SHALL BE GRADED AND STABILIZED AS FOLLOWS:
  - PLACE MINIMUM 4 INCHES OF TOPSOIL IN ALL AREAS.
  - APPLY RECOMMENDED SEED MIXTURE AT RECOMMENDED RATE.
  - APPLY STRAW OR HAY MULCH ON ALL SEEDED AREAS. ALL GRADED AREAS WITH SLOPES GRADED AT 3H:1V OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS
- INSTALL FINAL PAVEMENT COURSE.
- FINAL GRADE AND PLACE TOPSOIL, SEED AND MULCH.
- WHEN ALL GRADED AREAS ARE PERMANENTLY STABILIZED, REMOVE ALL EROSION AND SEDIMENT CONTROLS. REMOVE TRAPPED SEDIMENT.

**TRENCH EXCAVATION AND BACKFILL**

- THE CONTRACTOR SHALL PROPERLY MAINTAIN ALL BACKFILLED EXCAVATIONS. ANY DEPRESSIONS DUE TO SETTLING IN THESE AREAS SHALL BE FILLED AND RESEDED AS NECESSARY.
- THE WIDTH OF ALL EXCAVATED TRENCHES SHALL BE KEPT AS NARROW AS PRACTICABLE TO ACCOMMODATE THE WORK. ALL MATERIALS EXCAVATED FROM TRENCHES SHALL BE STOCKPILED AND USED AS TRENCH BACKFILL MATERIAL UNLESS IT IS DETERMINED TO BE UNSUITABLE BY THE ENGINEER. EXCESS MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

**VEGETATIVE TURF ESTABLISHMENT PROCEDURE**

- SCARIFY ALL AREAS TO BE TOPSOILED AND SEEDED, APPLY A MINIMUM OF 1 INCHES OF TOPSOIL ON ALL AREAS TO BE SEEDED. APPLY GRASS SEED, LIME, FERTILIZER AND MULCH ACCORDING TO THE FOLLOWING SCHEDULE.
- PERMANENT SEED MIXTURE:
 

|                     |                             |
|---------------------|-----------------------------|
| CREeping RED FESCUE | 0.45 LBS. PER 1,000 SQ. FT. |
| REDTOP              | 0.05                        |
| TALL FESCUE         | 0.45                        |
| TOTAL               | 0.95                        |
- FERTILIZER:
  - 10-10-10 APPLY AT 7.5 LBS. PER 1,000 SQ. FT.
- LIMESTONE:
  - APPLY AT 150 LBS. PER 1,000 SQ. FT.
- MULCHING:
  - SPREAD HAY OR STRAW OVER ALL AREAS AFTER SEEDING. USE 1 1/2 TO 2 BALES PER 1,000 SQ. FT. TARGET FOR 100% COVERAGE. ANCHOR BY USING NETTING OR TRACKING AS NECESSARY.
- TEMPORARY EROSION CONTROL BLANKETS:
  - USE TEMPORARY EROSION CONTROL BLANKETS ON ALL SEEDED SLOPES GRADED AT 3H:1V OR STEEPER AND/OR AS DIRECTED BY THE DESIGN ENGINEER.
- SEEDING DATES:
  - SEEDING DATES IN CONNECTICUT ARE NORMALLY APRIL 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH OCTOBER 1. SEED GERMINATION NORMALLY CANNOT BE EXPECTED FROM NOVEMBER THROUGH FEBRUARY. IF ADEQUATE SEED GERMINATION IS NOT POSSIBLE DUE TO TIME OF YEAR CONSTRAINTS, MULCHING SHALL BE ADEQUATELY PROVIDED TO PROTECT THE SEED FROM WIND AND SURFACE EROSION UNTIL THE WEATHER IMPROVES AND THE SEEDING BECOMES WELL ESTABLISHED.

**MAINTENANCE OF EROSION CONTROL DEVICES:**

**HAYBALE BARRIERS/GEOTEXTILE SILT FENCES:**

- INSPECT HAY BALE BARRIERS/GEOTEXTILE SILT FENCE AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2" OR GREATER TO DETERMINE MAINTENANCE NEEDS.
- REMOVE SEDIMENT DEPOSITS OR INSTALL A SECONDARY BARRIER/FENCE WHEN SEDIMENT DEPOSITS REACH APPROXIMATELY ONE HALF HEIGHT OF THE BARRIER/FENCE.
- REPLACE OR REPAIR THE BARRIER/FENCE WITHIN 24 HOURS OF OBSERVED FAILURE. IF REPETITIVE FAILURE OCCURS, CONSULT 2002 GUIDELINES FOR TROUBLESHOOTING FAILURES.
- MAINTAIN THE HAY BALE BARRIER/SILT FENCE UNTIL THE CONTRIBUTING AREA IS STABILIZED.
- AFTER UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE STAKES FROM HAY BALES. PULL UP FENCE SUPPORT POSTS AND CUT OFF GEOTEXTILE AT GROUND. UNLESS OTHERWISE REQUIRED, HAY BALES MAY BE LEFT IN PLACE OR BROKEN UP FOR GROUND COVER. IF ACCUMULATED SEDIMENT EXCEEDS 6 INCHES, RE-GRADE OR REMOVE SEDIMENT. STABILIZE ANY DISTURBED SOILS.

**CONSTRUCTION ENTRANCES AND ROADWAYS:**

- MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENTS ONTO PAVED SURFACES.
- PROVIDE PERIODIC TOP DRESSING AND ADDITIONAL STONE OR LENGTH AS NECESSARY.
- IMMEDIATELY REMOVE ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES. ROADS ADJACENT TO THE CONSTRUCTION SITE SHALL BE LEFT CLEAN EVERY DAY.

**TEMPORARY SEDIMENT TRAP:**

- INSPECTIONS SHALL BE AT SAME INTERVALS AS THE HAYBALE BARRIER/SILT FENCE INSPECTION SCHEDULE.
- OUTLET SHALL BE CHECKED FOR INTEGRITY. HEIGHT OF THE STONE OUTLET SHALL BE MAINTAINED AT ONE FOOT BELOW CREST OF EMBANKMENT. SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE SHOULD BE OBSERVED.
- WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF OF THE MINIMUM REQUIRED STORAGE VOLUME, DE-WATER BASIN, REMOVE SEDIMENTS, RESTORE TRAP TO ORIGINAL DIMENSIONS AND DISPOSE OF SEDIMENT AT A LOCATION AND MANNER THAT WILL NOT RESULT IN EROSION OR SEDIMENTATION.
- AFTER CONTRIBUTING AREA IS STABILIZED, REMOVE BASIN, AND RE-GRADE AND STABILIZE AREA.

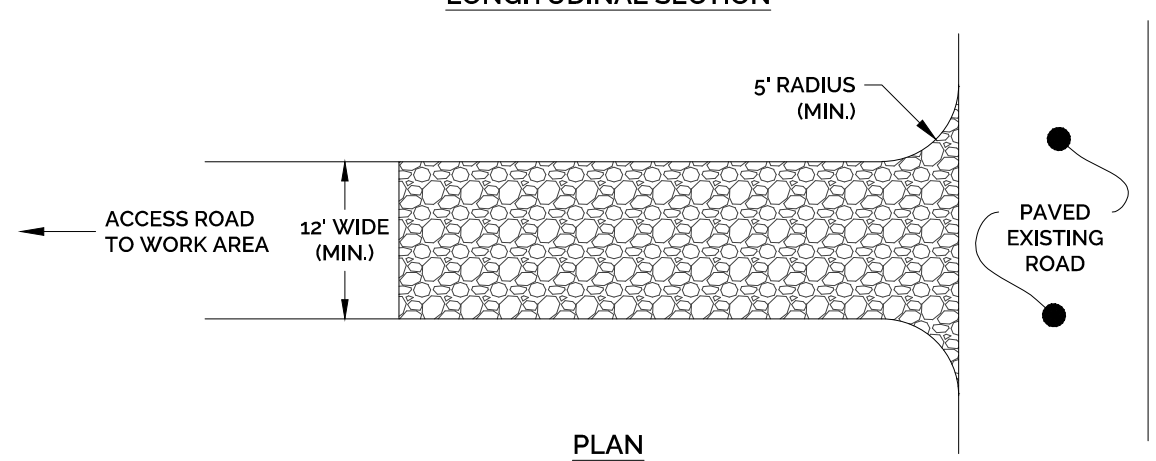
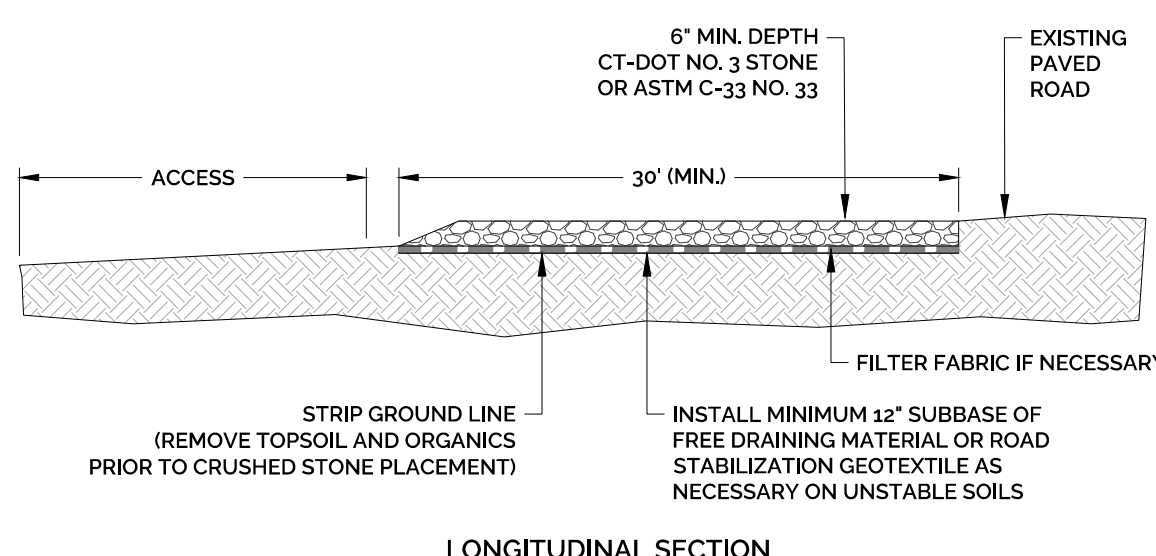
**TEMPORARY DIVERSION DITCHES/SWALES:**

- WHEN THE TEMPORARY DIVERSION IS LOCATED IN CLOSE PROXIMITY TO ONGOING CONSTRUCTION ACTIVITIES, INSPECT AT THE END OF EACH DAY AND IMMEDIATELY REPAIR DAMAGES. OTHERWISE, INSPECT ON SAME INTERVAL AS THE TEMPORARY SEDIMENT TRAP.
- REPAIR THE DIVERSION WITHIN 24 HOURS OF ANY OBSERVED FAILURE. FAILURE HAS OCCURRED WHEN THE DIVERSION HAS BEEN DAMAGED SUCH THAT IT NO LONGER MEETS THE SPECIFICATIONS IN THE 2002 GUIDELINES.

**IF REPETITIVE FAILURES OCCUR, REVIEW CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES OR AN ALTERNATIVE MEASURE IS NECESSARY.**

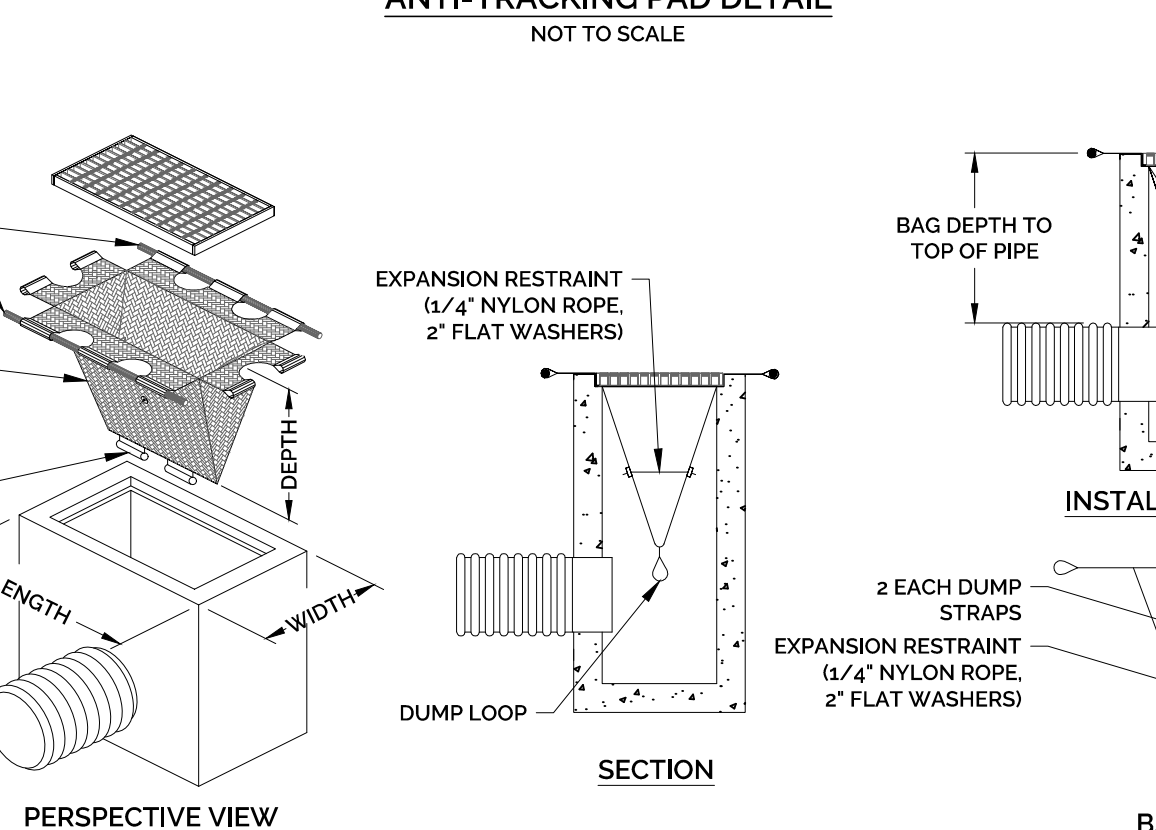
**CONCRETE WASHOUT AREA:**

- WASHOUT AREA TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS, OR OVERFLOWS. CHECK AFTER HEAVY RAINS.
- HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S DEPTH. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.



NOTE: ALL ANTI-TRACKING PADS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH 2002 CT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL, AS AMENDED. REFERENCE: 2002 CT GUIDELINES FOR EROSION AND SEDIMENT CONTROL, DEEP BULLETIN 34, FIGURE CE-2, ERRATA DATA 3/12/06, PAGE 5-12-4 (1/4" STONE NOW 6" STONE).

**ANTI-TRACKING PAD DETAIL NOT TO SCALE**



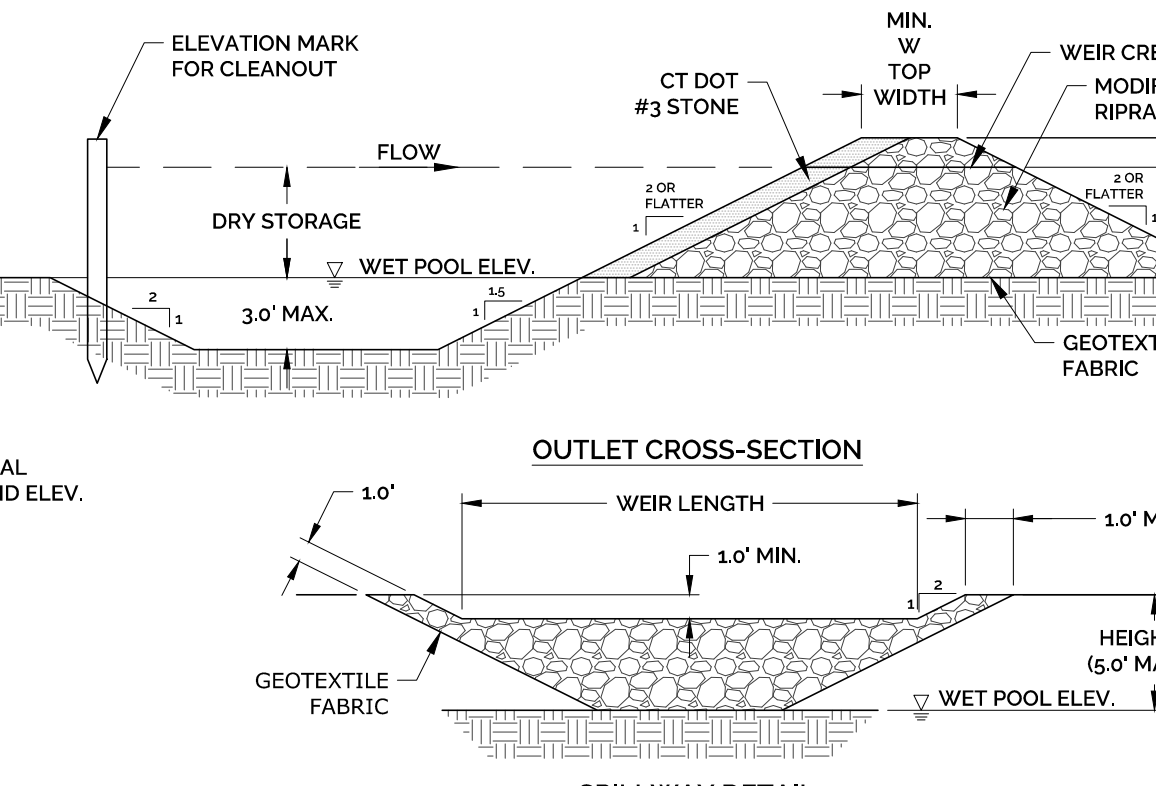
- NOTES:
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CORRECT SIZE DEVICE FOR EACH INLET. FOR NON-STANDARD CATCH BASINS AND INLETS, THE CONTRACTOR SHALL MEASURE DIMENSIONS IN THE FIELD AND ORDER THE APPROPRIATE SIZE(S).
  - THE INLET SEDIMENT CONTROL DEVICE SHALL BE OF HIGH FLOW DESIGN (200 GAL./MIN./FT.), AS PER THE MANUFACTURER'S SPECS.
  - THE SEDIMENT CONTROL DEVICE SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND CLEANED AND MAINTAINED A MINIMUM ONCE PER MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT. THE FILTER SHALL BE REPLACED OR CLEANED WHEN THE BAG BECOMES HALF FULL. THE FILTER SHALL BE CLEANED IN A MANNER WHICH ENSURES THAT ALL SEDIMENT REMAINS ON SITE.
  - SUBSTITUTION OF A SHEET OF FILTER FABRIC PLACED OVER THE OPENING OF THE INLET IS NOT APPROVED.
  - RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS. SIZE OF FILTER INLET SACK TO BE DETERMINED BY MANUFACTURER.
  - THE FILTER DEVICE SHALL BE MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL.

**CATCH BASIN FILTER (SILT SACK) DETAIL NOT TO SCALE**

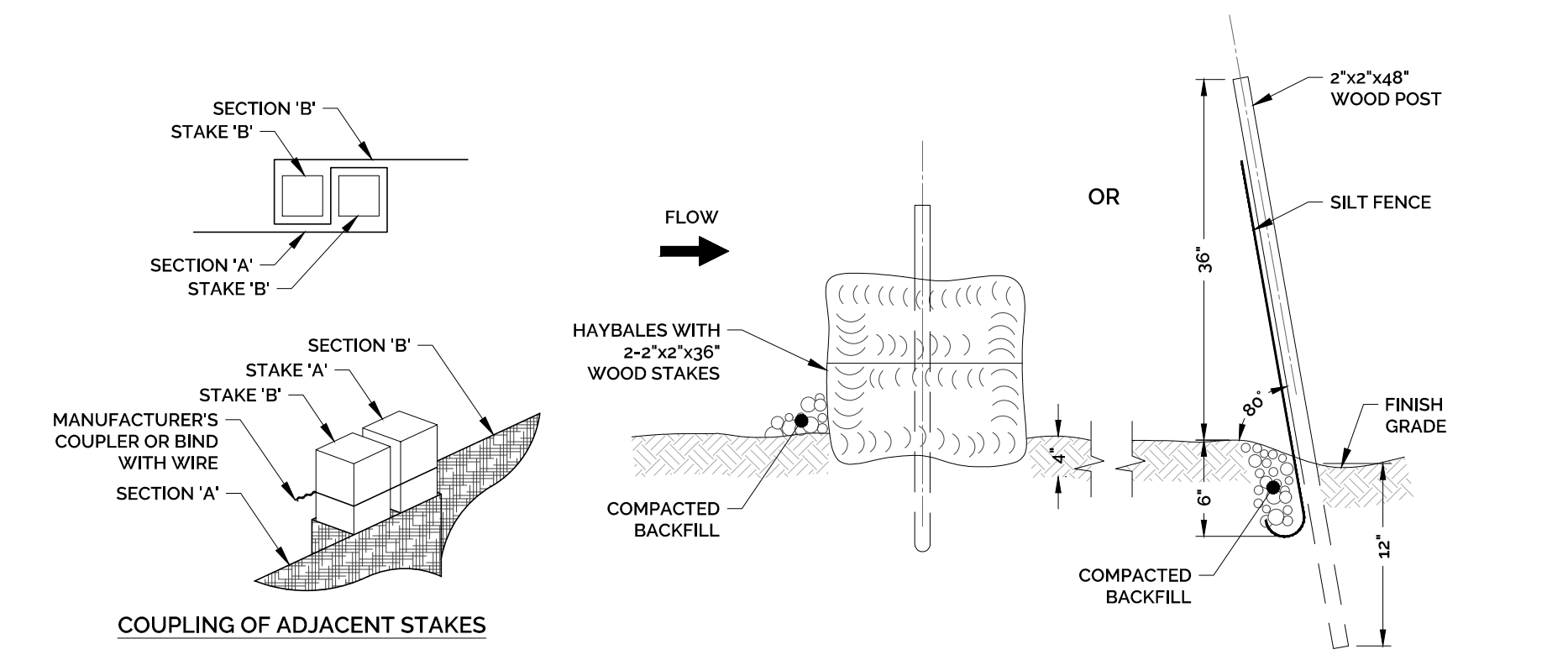


| H (ft) | W (ft) |
|--------|--------|
| 1.5    | 2.0    |
| 2.0    | 2.0    |
| 2.5    | 2.5    |
| 3.0    | 2.5    |
| 3.5    | 3.0    |
| 4.0    | 3.0    |
| 4.5    | 4.0    |
| 5.0    | 4.5    |

- NOTES:
- PERVIOUS STONE DIKE SHALL BE CONSTRUCTED OF CT DOT MODIFIED RIPRAP WITH #3 STONE ON FACE.
  - NON-OVERFLOW PORTIONS AND ABUTMENTS OF TEMPORARY SEDIMENT TRAP MAY BE CONSTRUCTED OF COMPACTED EARTH FILL.

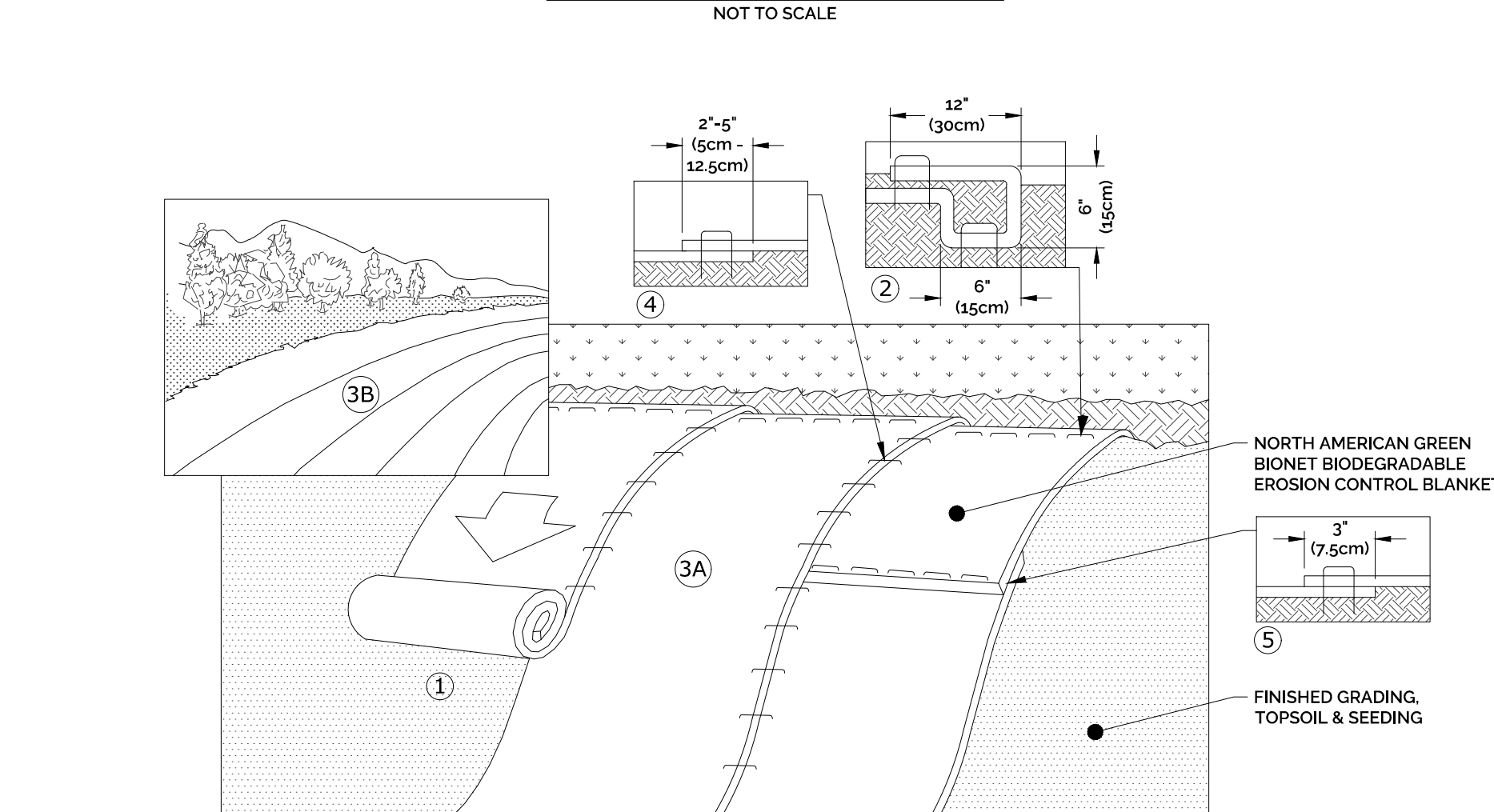


**TEMPORARY SEDIMENT TRAP DETAIL NOT TO SCALE**



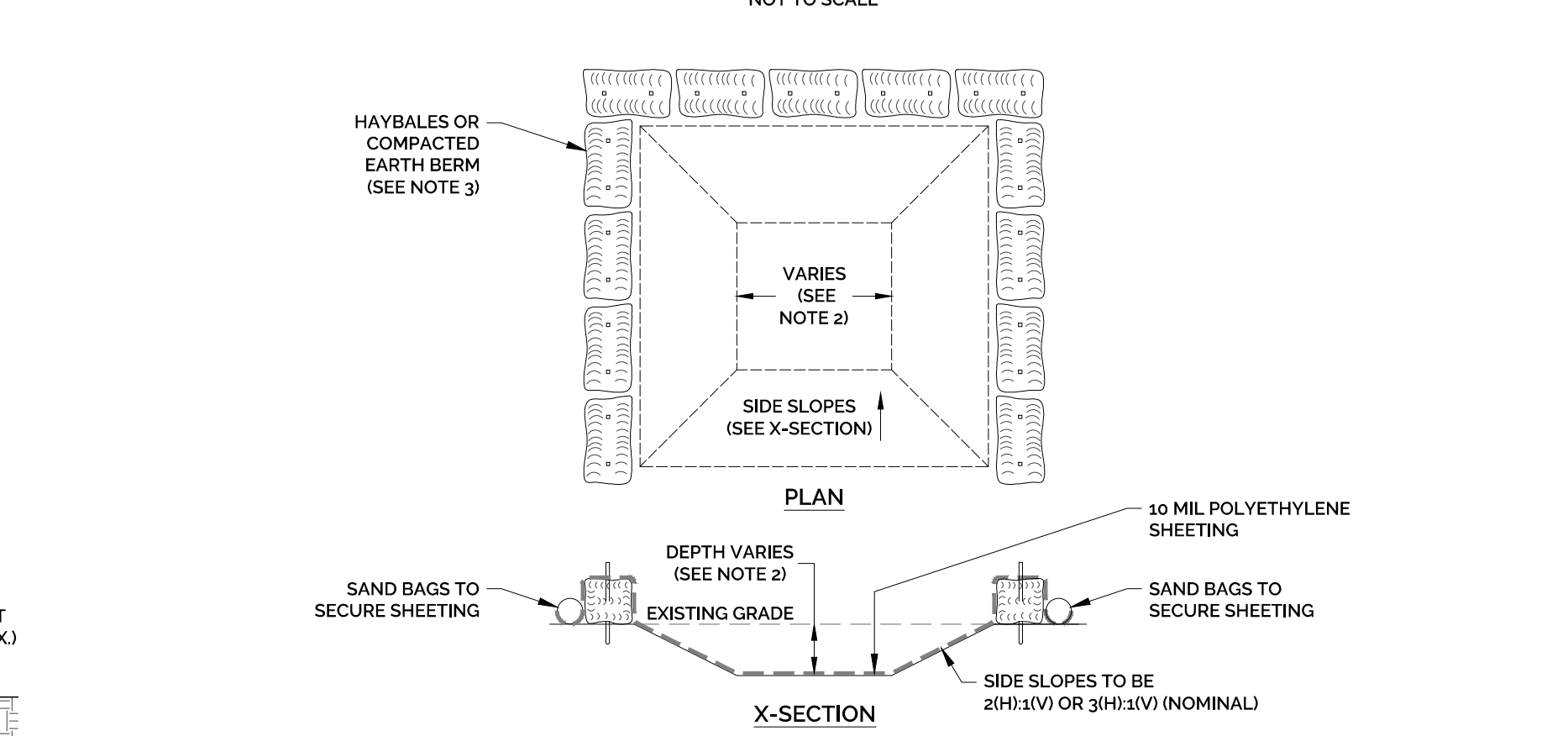
- INSTALLATION NOTES FOR HAY BALES:
- PLACE HAY BALES ON CONTOUR AND WITH LAST HAY BALES UPSLOPE TO THAT TOP OF LAST SEVERAL HAY BALES ARE HIGHER THAN LINE OF HAY BALES.
  - EXCAVATE TRENCH 4" MIN. AND PLACE FILL UPSLOPE OF TRENCH.
  - PLACE HAY BALE AND STAKE FIRST STAKE AT ANGLE TOWARDS FIRST BALE. STAKES ARE 18" MIN. INTO GROUND.
  - WEDGE LOOSE HAY BETWEEN BALES.
  - BACKFILL & COMPACT EXCAVATED FILL ALONG UPHILL SIDE OF HAY BALE.

**TYPICAL SEDIMENT BARRIER DETAIL NOT TO SCALE**



- NOTES:
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
  - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
  - ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
  - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE TO ENSURE PROPER SEAM ALIGNMENT. PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH™ ON THE PREVIOUSLY INSTALLED BLANKET.
  - CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

**EROSION CONTROL BLANKET DETAIL NOT TO SCALE**



- NOTES:
- CONCRETE WASHOUT AREAS SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF-CONTAINED.
  - THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF THE CONCRETE WASHOUT AREAS WITH THE PROJECT'S EROSION & SEDIMENTATION CONTROL PLAN AND SHALL BE APPROVED BY THE ENGINEER.
  - LOCATION WASHOUT AREAS ARE TO BE LOCATED AT LEAST 50 FEET FROM ANY STREAM, WETLAND, STORM DRAINS, OR OTHER SENSITIVE RESOURCE.
  - SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO, OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.
  - SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, HAYBALES OR OTHER CONTROL MEASURE SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.
  - SIGNS SHOULD BE PLACED AT THE CONSTRUCT ENTRANCE, AT THE CONCRETE AREAS AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREAS SHOULD BE FLAGGED WITH SAFETY FENCING OR OTHER APPROVED METHOD.
  - WASHOUT AREAS ARE TO BE INSPECTED AT LEAST ONCE PER WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS OR OVERFLOWS. WASHOUT AREAS SHOULD BE CHECKED AFTER HEAVY RAINS.
  - HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S DEPTH. THE WASTE CAN BE STORED AT AN UPLAND LOCATION AS APPROVED BY THE ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS AND GUIDELINES.

REFERENCE: STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION OFFICE OF ENGINEERING CONCRETE WASHOUT AREA DETAIL.

**CONCRETE WASHOUT AREA NOT TO SCALE**

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Stamp area with columns for DATE, REV, and DESCRIPTION OF REVISION.

**SOIL EROSION & SEDIMENT CONTROL NARRATIVE AND DETAILS**  
**VESSEL MULTI-FAMILY HOUSING**  
 PROPERTY ADDRESS: 446 HOPMEADOW STREET, SIMSBURY, CT 06089  
 PREPARED FOR: **VESSEL TECHNOLOGIES, INC.**  
 46 WEST 55TH STREET, NEW YORK, NY 10019

PROJECT NO. 2022-0013 SCALE N.T.S.  
 DRAWN BY: SHM DATE 12/16/2022  
 CHECKED BY: SHM DATE 12/16/2022

DRAWING **SEN-1**  
 SHEET NUMBER: 8 OF 12

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