

TOWN OF WELLESLEY



MASSACHUSETTS

**ZONING BOARD OF APPEALS**

888 WORCESTER STREET • SUITE 160 • WELLESLEY, MA 02482

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PETER COVO

JAN 23 PM 12:30

ZBA 2024-80

Petition of Amos Ami Saada  
679 Worcester Street (ABLS)

Pursuant to due notice, the Special Permit Granting Authority held a Remote Public Hearing on Thursday, December 5, 2024 at 7:30 pm, on the petition of Amos Ami Saada requesting a Special Permit pursuant to the provisions of Section 2.1.A.8.b and Section 6.3 of the Zoning Bylaw for an Educational Use, namely Applied Behavioral Learning Services (ABLS), in a portion of an existing two-family dwelling at 679 Worcester Street, which is a use not allowed by right in a 20,000 square foot Single Residence District.

On November 4, 2024, the petitioner filed a request for a hearing before this Authority, and thereafter, due notice of the hearing was given by mailing and publication.

Present at the public hearing were David Himmelberger, Esq. and Mariela Vargas-Irwin.

Mr. Himmelberger said that the matter was initially filed by Ms. Vargas-Irwin for a special permit for other than non-profit educational purposes, namely services to provide children with special needs, that are allowed by special permit in a single residence district. He said that after his review of Ms. Vargas-Irwin's proposal, he became convinced that this is an as of right use for child care facilities under Section 2.1.A.3A of the Zoning Bylaw (ZBL), with the exception of the two or three students who are 16 years or older. He discussed the ZBL and Massachusetts General Law (MGL) definitions of Child Care Facility. He said that the scope of the requested relief pertains to a special permit for up to five students who are 16 years or older to receive services at the facility. He said that the Applicant chose to pursue the matter as a special permit rather than under the Dover Amendment. He said that the proposed use will comply with Section 6.3.D. Special Use Permit Standards of the ZBL.

A Board member asked about the number of staff and students. Ms. Vargas-Irwin said that not everyone will be on site at the same time. She said that there may be four students in the morning and six in the afternoon. She said that 15 staff members is ideal but hard to achieve. She said that some of the staff members also serve some facilities in their own homes. She said that ABLS does not provide transportation.

Property Address: 679 Worcester St., Wellesley, MA  
Deed Certificate #212984

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A Board member discussed concerns about egress and separation of the living and ABLS spaces. He said that the Board will need to see a fully vetted set of plans that identify separations between the three functions of the building and how they interface. He suggested that the Applicant speak with the Building Inspector regarding Building Code implications.

The Board voted unanimously to continue the matter to January 9, 2025.

January 9, 2025

Mr. Himmelberger said that while going through the process to develop plans that delineate the internal uses within the building, namely, the two dwelling units and the space for Ms. Vargas-Irwin's child care and educational program, Ms. Vargas-Irwin decided that it would make sense to build an addition on the first floor at the rear of the building. He said that no relief is required for the proposed conforming addition. He said the request is for a special permit under the provisions of the ZBL for an educational use in a Single Family District to offer services to students who are 16 years of age and older.

Mr. Himmelberger said that he spoke with Michael Grant, Building Inspector, about the program qualifying as a child care facility. He said that Mr. Grant will enforce the bylaw with regard to the enumerated conditions that are required for the operation of any child care facility, which is what Ms. Vargas-Irwin will be providing to students who are less than 16 years of age. He said that the Building Inspector has jurisdiction over parking circulation around the building with respect to operation of the child care facility. He said that a plot plan was submitted that shows the design of the parking spaces and drop off area.

The Chairman discussed MGL Chapter 15, Section 6. He said that his understanding is that the State does not deal with the students who are over 16 years of age. Ms. Vargas-Irwin said that in many ways, the students who are over 16 years old fall under the same definition as younger children because they have special needs. She said that they come to the center because they can't live independently. She said that the reason that the regulations are the same, even though the students might be 18 years old, is that they are not competent. She said that the Autism Commission, the Insurance Commission and Mass Health all see them as equivalent, regardless of age. She said that the parents have custody of them. She said that early childhood and care is not regulated because none of her students sleep at the center.

The Chairman questioned whether the proposed use could be done as of right under Section 2.1.A.3A of the Zoning Bylaw. Mr. Himmelberger said that his understanding is that child care facility only applies to children up to the age of 16 if they have special needs but individuals 16 years or older with special needs don't fall within the State's definition of child care facility, which is what the Town uses as the basis for Section 2.1.3A of the ZBL. He said that he believes that a special permit under Section 2.1.A.8,b of the ZBL is needed for those special needs students who are 16 years and older, not Section 2.1.A.3A.

The Chairman asked about permitting from the State for the facility that Ms. Vargas-Irwin currently operates at 110 Cedar Street in Wellesley. Ms. Vargas-Irwin said that her two students who are over 16 years of age are funded by insurance. She said that there is some regulation by the Autism Commission but the insurance company has jurisdiction.

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Mr. Himmelberger discussed the revised plans. He said that the plans show how the interior spaces are segregated. He said that Plan A-6 shows the proposed first floor, which includes the single story addition to the right rear and also shows a ramp at the front right. He said that the parking plan shows two ADA parking spaces adjacent to the ramp, which is one more than required. He said that the second floor will remain as is. He said that the layout is further delineated in color segments on Plan A-8. He said that the white areas are the ABLS Facility, with basement space as well as space on the right side of the first floor. He said that the green and yellow areas on the first and second floors are residential areas that have nothing to do with the use permit that is being sought. He said that the Section 2.1.A.8.b use is confined to the white areas shown on Plan A-8.

Ms. Vargas-Irwin said that the proposed white space on the first floor consists of a waiting room where students or parents come in, her office, and a designated classroom with three bathrooms for the younger students. She said that older students will be in the white portion of the basement. She said that the green portion of the basement will remain unfinished. She said that she will live in the green area with her senior in Wellesley High and her freshman in college who will come home on break occasionally. She said that the smaller apartment is currently rented and she plans to keep the tenant at least through construction. She said that once the center moves to 679 Worcester Street, they will decide whether to keep the tenant.

A Board member asked about the pinch point off Worcester Street that is shown on Plan A-4. He asked if 18 feet at its narrowest is enough to let two cars through. Mr. Himmelberger said that according to the design standards for off-street parking in Section 5.17 of the ZBL, the minimum width for two-way use is 18 feet. He said that they have 25 feet at the mouth onto Route 9 but 18 feet as you come in. He said that a benefit of its location is that there is a traffic light that stops traffic going west at the turnaround every minute or so. He said that there are always breaks in the traffic.

A Board member asked if the building is regulated by the Historic Commission. Mr. Himmelberger said that it is an eligible building because it is pre-1949 but because less than 50 percent of its exterior elevations will be covered up or removed, it doesn't qualify as a demolition and is therefore not subject to further demolition review by the Historic Commission.

No member of the public wished to speak to the petition.

#### Statement of Facts

The Petitioner is requesting a Special Permit pursuant to the provisions of Section 2.1.A.8.b and Section 6.3 of the Zoning Bylaw for an Educational Use, namely, Applied Behavioral Learning Services (ABLS), in a portion of an existing two-family dwelling, which is a use not allowed by right in a 20,000 square foot Single Residence District.

The subject premises is located at 679 Worcester Street, on a 36,598 square foot lot. The property contains a main house and a one-story detached garage. ABLS offers full-time, extensive behavior analytic intervention and specialized weekly sessions focusing on social skills development for members of the Autism community. Group sessions typically last two to three hours, with most students being dropped off. The Center would host ABLS Theatrical, a nonprofit organization led by Wellesley High School students to provide inclusive, affordable community theater.

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Letter to Zoning Board of Appeals, dated 11/26/24, from David Himmelberger, Esq., Letter to Zoning Board of Appeals, dated 1/2/25, from David Himmelberger, Esq., Letter to Zoning Board of Appeals from Mariela Vargas-Irwin, Aerial Photograph, Parking Layout, Floor Plans, prepared by Cubicasa, Biography of Mariela Vargas-Irwin, Plot Plan, Floor Plans & Elevations Drawings, dated 1/2/25, revised 1/7/25, prepared by Emily's Interiors, were submitted.

On December 3, 2024, the Planning Board reviewed the petition and recommended that the Board delay action.

### Decision

This Authority has made a careful study of the materials submitted and the information presented at the hearing.

The Petitioner is requesting a Special Permit to allow a portion of the existing two-family dwelling at 679 Worcester Street to be used as an Applied Behavioral Learning Services center in a Single Residence District.

It is the opinion of this Authority that the use of a portion of the property as an Applied Behavioral Learning Services center shall not disturb or disrupt the customary character of the residential neighborhood, and is in harmony with the intent and purpose of the Zoning Bylaw.

Therefore, a Special Permit is granted for the requested use, as voted unanimously by this Authority at the Public Hearing, in accordance with the submitted plans.

2025 JAN 23 PM 12:31

RECEIVED  
JAN 23 2025  
MAINTENANCE

ZBA 2024-80

Petition of Amos Ami Saada  
679 Worcester Street (ABLS)

APPEALS FROM THIS DECISION,  
 IF ANY, SHALL BE MADE PURSUANT  
 TO GENERAL LAWS, CHAPTER 40A,  
 SECTION 17, AND SHALL BE FILED  
 WITHIN 20 DAYS AFTER THE DATE  
 OF FILING OF THIS DECISION IN THE  
 OFFICE OF THE TOWN CLERK.

J. Randolph Becker (AM)  
 J. Randolph Becker, Chairman

Walter B. Adams (AM)  
 Walter B. Adams

Peter Covo (AM)  
 Peter Covo

ZBA 2024-80  
 Applicant Amos Ami Saada  
 Address 679 Worcester Street

2025 JAN 23 PM 12:31

RECEIVED  
 TOWN CLERK'S OFFICE  
 JAN 23 2025

NOT VALID FOR RECORDING UNTIL CERTIFIED BY TOWN CLERK

In accordance with Section 11 of Chapter 40A of the Massachusetts General Laws, I hereby certify that twenty (20) days have elapsed after the within decision was filed in the office of the Town Clerk for the Town of Wellesley, and that no appeal has been filed, or that if such appeal has been filed, that it has been dismissed or denied.

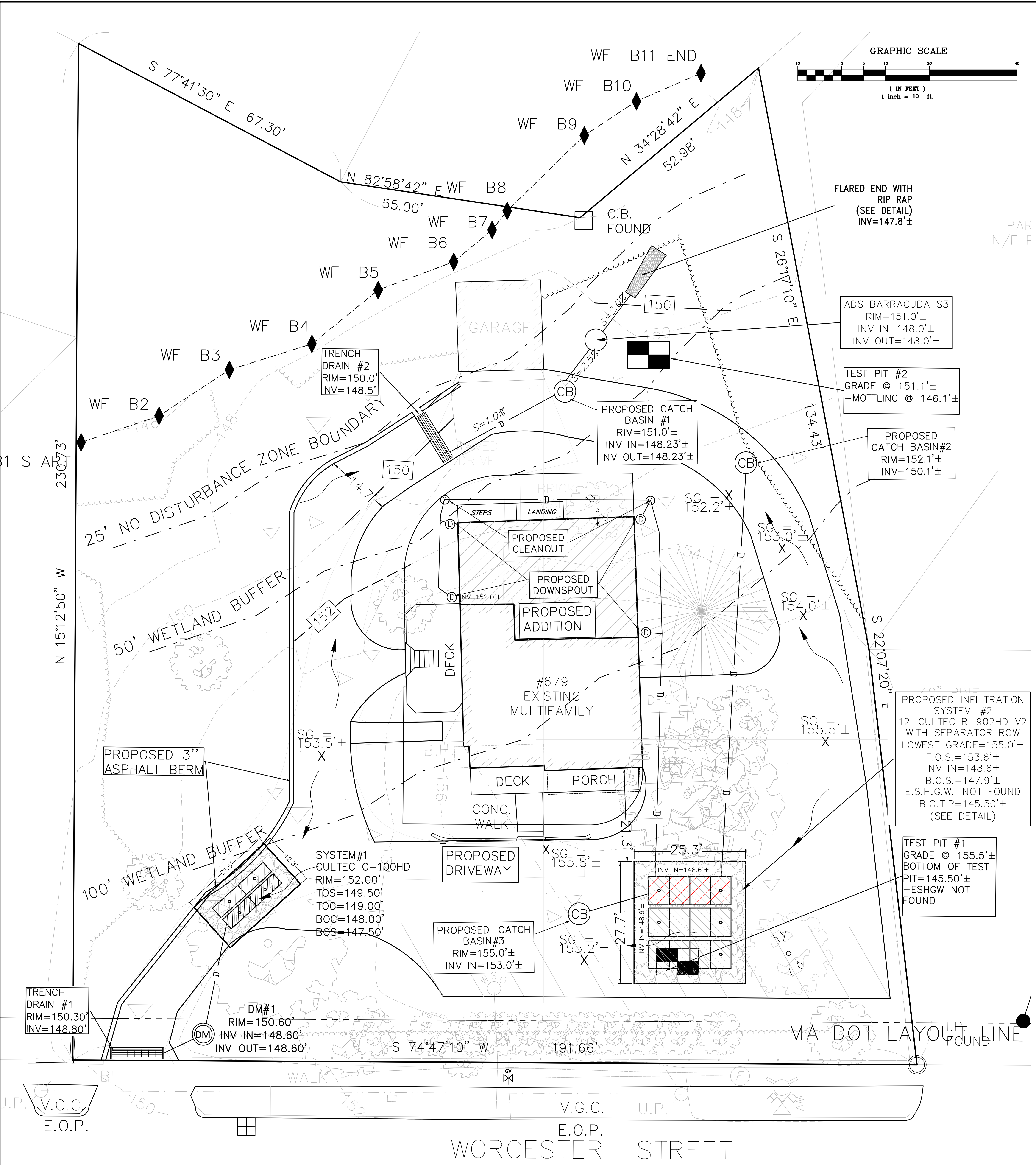
Date: February 3, 2025

Attest:

Cathryn J. Kato  
 Cathryn Jane Kato  
 Town Clerk

cc: Planning Board  
 Inspector of Buildings  
 lrm





CONTRACTOR TO NOTIFY ENGINEER OF RECORD IF ANY GROUNDWATER IS FOUND DURING EXCAVATION/CONSTRUCTION.

ALL SURFACE WATER RUNOFF SHALL BE DIRECTED AWAY FROM BUILDING FOUNDATION AND AWAY FROM NEIGHBORING PROPERTY.

CONTRACTOR SHALL ENSURE BASEMENT IS FULLY WATERPROOFED

EXCAVATION FOR THE INFILTRATION SYSTEM MUST BE INSPECTED BY THE ENGINEER OF RECORD PRIOR TO INSTALLATION. THE ENGINEER MUST BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE TO SCHEDULE THIS INSPECTION.

ALL SURFACE WATER RUNOFF SHALL BE DIRECTED AWAY FROM BUILDING FOUNDATION AND AWAY FROM NEIGHBORING PROPERTY.

BACKFLOW PREVENTERS MUST BE INSTALLED IN ALL NEW BASEMENT FIXTURES

CONTRACTOR SHALL ENSURE THAT ALL DRAIN PIPES ARE INSTALLED WITH A MINIMUM SLOPE OF 1.0%.

ALL SURFACE WATER RUNOFF SHALL BE DIRECTED AWAY FROM BUILDING FOUNDATION AND AWAY FROM NEIGHBORING PROPERTY

POWER BACKUP AND BACKFLOW PREVENTER MUST BE INSTALLED IN ALL SUMP PUMPS.

CONTRACTOR SHALL ENSURE THAT THE EXISTING AND PROPOSED FOUNDATIONS ARE NOT UNDERMINED BY THE PROPOSED INFILTRATION SYSTEMS

RAIN FALL	RUNOFF RATE		VOLUME OF RUNOFF	
	EXISTING	PROPOSED	EXISTING	PROPOSED
2 year	0.16	0.02	1,058	298
10 year	1.06	0.33	3,674	1,619
25 year	1.81	0.76	5,815	2,846
50 year	2.43	1.13	7,570	3,899
100 year	3.52	1.55	10,702	5,093

EXISTING AREAS

LOT AREA	36,589.1 S.F.
EXISTING IMPERVIOUS AREA	
BUILDING	1,401.0 S.F.
DRIVEWAY	3,502.0 S.F.
GARAGE	392.1 S.F.
COVER LANDING	22.4 S.F.
STEPS	71.6 S.F.
PORCH	104.0 S.F.
WALKWAY	89.6 S.F.
RETAINING WALL	19.3 S.F.
BULKHEAD	21.8 S.F.
DECK	374.3 S.F.
TOTAL	5,998.1 S.F.
TOTAL	S.F.
LANDSCAPE AREA	30,591.0 S.F.

PROPOSED IMPERVIOUS AREA

STING BUILDING TO REN	1,275.3 S.F.
EXISTING GARAGE	392.1 S.F.
EXISTING STEPS	43.7 S.F.
EXISTING PORCH	104.0 S.F.
EXISTING WALKWAY	53.1 S.F.
EXISTING RETAINING W	188.6 S.F.
EXISTING BULKHEAD	21.8 S.F.
EXISTING DECK	374.3 S.F.
EXISTING BUILDING	988.6 S.F.
DRIVEWAY	10,389.0 S.F.
LANDING	42.7 S.F.
STEPS	53.12 S.F.
TOTAL	13,926.1 S.F.
TOTAL	S.F.
LANDSCAPE AREA	22,862.9 S.F.

TOTAL EXISTING IMPERVIOUS AREA = 5,998.1 S.F.

TOTAL PROPOSED IMPERVIOUS AREA = 13,926.0 S.F.


TOTAL INCREASE IN IMPERVIOUS AREA = 7,928.1 S.F.

DEEP OBSERVATION HOLE NUMBER:

TEST PIT	#1	GROUND ELEVATION 155.6' ±		
Depth (in)	Depth (ft)	Horizon/Layer	Texture	
0-0-18.0	0-0-1.5	Ap	--	
18.0-36.0	1.5-3.0	Bw	FINE SAND	
36.0-90.0	3.0-7.5	C1	COARSE SAND	
90.0-120.0	7.5-10.0	C2	FINE SAND	
NOTES:				
BOTTOM OF TEST PIT: 145.50 ft				
ESHOW: NOT FOUND				
PERFORMED BY: EDMOND SPRUHAN SE 14235				

DEEP OBSERVATION HOLE NUMBER:

TEST PIT	#2	GROUND ELEVATION 151.1' ±		
Depth (in)	Depth (ft)	Horizon/Layer	Texture	
0-0-12.0	0-0-1.0	Ap	--	
12.0-24.0	1.0-2.0	Bw	--	
24.0-96.0	3.0-7.5	C1	LOAMY SAND WITH COBBLES	
NOTES:				
BOTTOM OF TEST PIT: 143.1 ft				
MOTTLING AT 146.1 FT				
PERFORMED BY: EDMOND SPRUHAN SE 14235				



**SPRUHAN ENGINEERING, P.C.**  
80 JEWETT ST. (SUITE 1)  
NEWTON, MA 02458  
Tel: 617-816-0722  
Email: edmond@spruhaneng.com

679 WORCESTER STREET, WELLESLEY MASSACHUSETTS

**CIVIL PLAN**

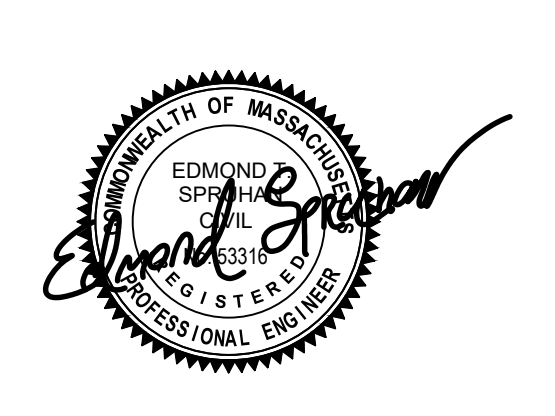
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BY	DESCRIPTION	DATE
Y.L.	UPDATED PER DPW COMMENTS	11.7.25

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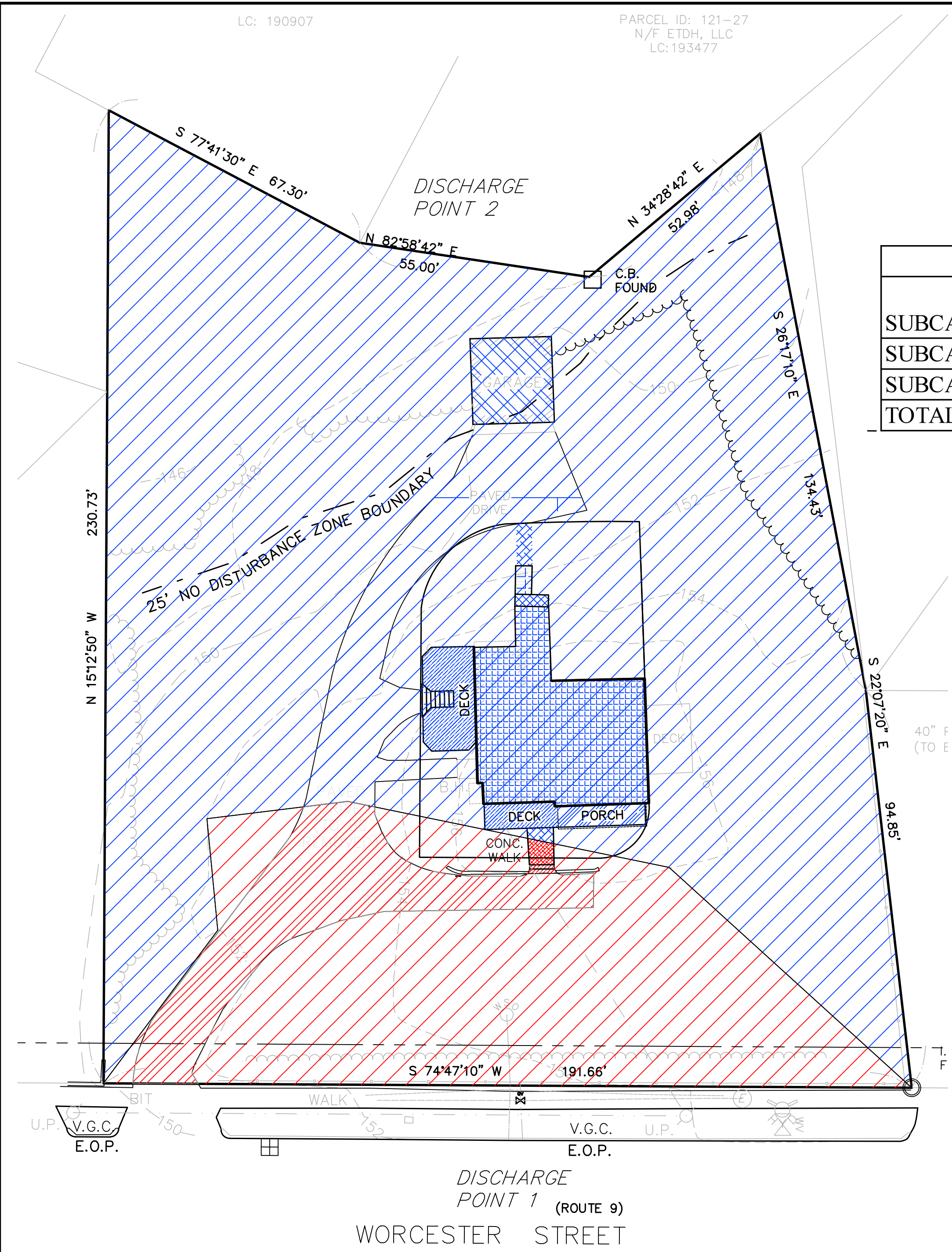
DATE: 9/24/2025  
DRAWN BY: Y.L.  
CHECKED BY: G.B.  
APPROVED BY: E.S.

**CIVIL PLAN**

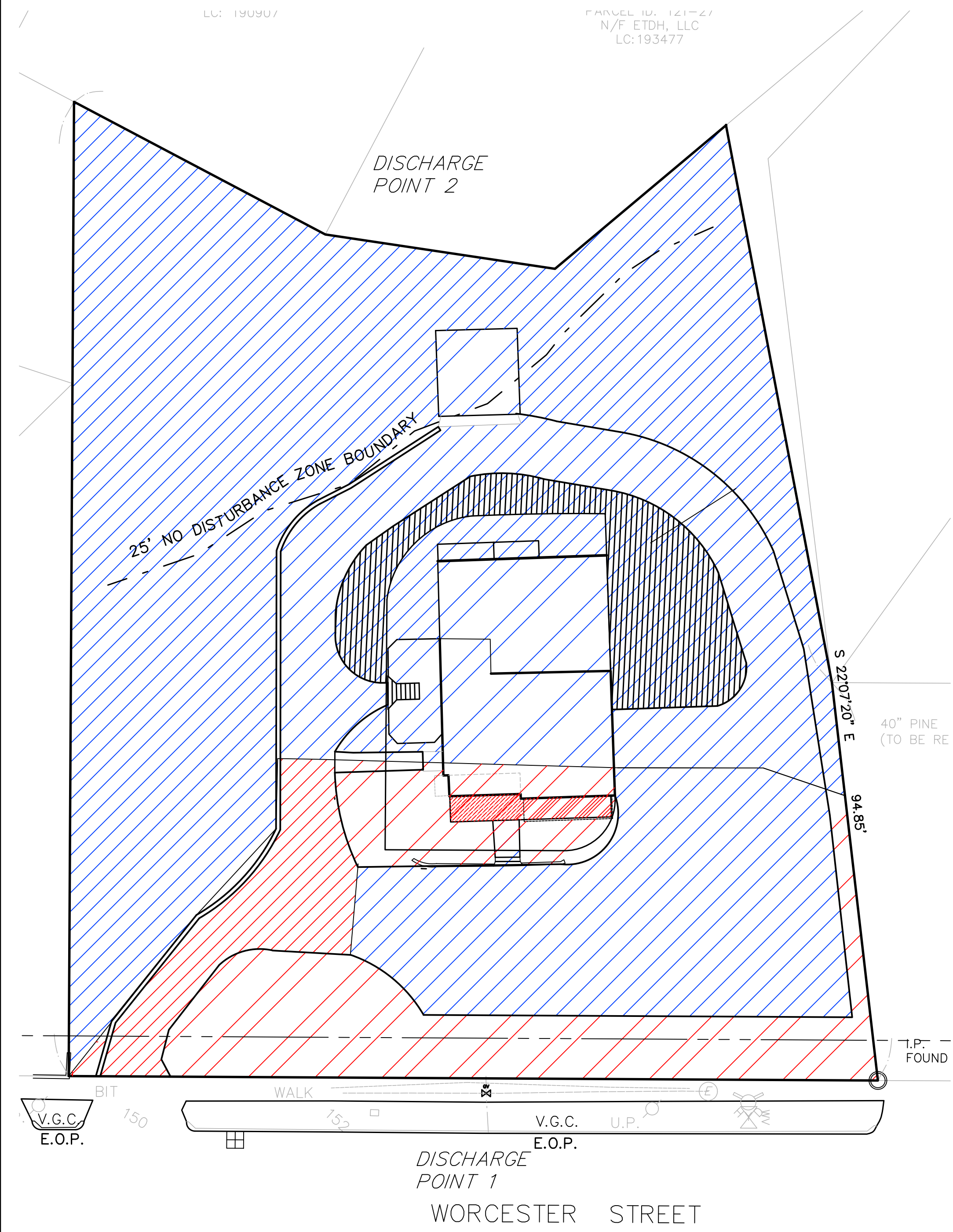
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EXISTING SUBCATCHMENT CALCULATIONS						
SUBCATCHMENT	LANDSCAPE	BUILDINGS	DRIVEWAY	GENERAL IMPERVIOUS	GARAGE	TOTAL
SUBCATCHMENT 1	6,719.0	-	1,806.0	46.0	-	<b>8,571.0</b>
SUBCATCHMENT 2	23,871.00	1,401.0	1,697.0	657.0	392.1	<b>28,018.1</b>
TOTAL	30,590.0	1,401.0	3,503.0	703.0	392.1	36,589.1



PROPOSED SUBCATCHMENT CALCULATIONS						
SUBCATCHMENT	LANDSCAPE	BUILDINGS	DRIVEWAY	GENERAL IMPERVIOUS	GARAGE	TOTAL
SUBCATCHMENT 1	4,444.0	290.0	1,472.0	209.0	-	<b>6,415.00</b>
SUBCATCHMENT 2	18,220.0	1,972.0	8,917.0	673.0	392.1	<b>30,174.10</b>
TOTAL	22,664.0	2,262.0	10,389.0	882.0	392.1	<b>36,589.10</b>

Discharge points summary table (HydroCAD results)					
DISCHARGE POINT	STORM EVENT	RUNOFF RATE		VOLUME OF RUNOFF	
		EXISTING	PROPOSED	EXISTING	PROPOSED
#1	100-Year	0.92	0.18	2,768.0	668.0
#2	100-Year	2.60	1.37	7,934.0	4,426.0



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Email: edmond@spruhaneng.com

679 WORCESTER  
STREET, WELLESLEY  
MASSACHUSETTS

CIVIL PLAN

REVISION BLOCK

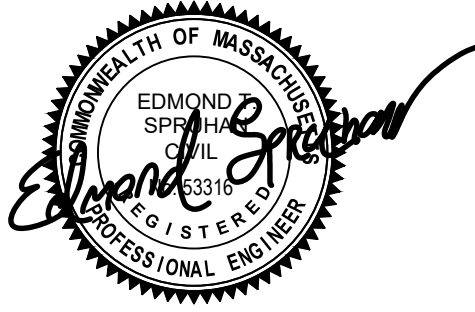
BY	DESCRIPTION	DATE

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DATE:	11/5/2025
DRAWN BY:	Y.L.
CHECKED BY:	G.B.
APPROVED BY:	E.S.

WATERSHED MAPS

SHEET C2.0





CULTEC RECHARGER® / 902HD SPECIFICATIONS  
GENERAL  
CULTEC RECHARGER®/ 902HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

- CHAMBER PARAMETERS
- THE CHAMBERS SHALL BE MANUFACTURED IN THE U.S.A. BY CULTEC, OF BROOKFIELD, CT (CULTEC.COM, 203-775-4416).
  - THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:
    - INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
    - MAXIMUM PERMANENT (50-YEAR) COVER LOAD
    - 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD
  - THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
  - THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
    - THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
    - THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
    - THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95
  - THE INSTALLED CHAMBER SYSTEMS SHALL BE STRUCTURALLY DESIGNED TO PROVIDE RESISTANCE TO THE LIVE LOADS AS DEFINED BY THE AASHTO H-20/HL-93 SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
  - THE CHAMBER SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.
  - THE CHAMBER SHALL BE ARCHED IN SHAPE.
  - THE CHAMBER SHALL BE OPEN-BOTTOMED.
  - THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.
  - THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER® 902HD SHALL BE 48 INCHES (1219 MM) TALL, 78 INCHES (1981 MM) WIDE AND 4.25 FEET (1.30 M) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 902HD SHALL BE 3.67 FEET (1.12 M).
  - MULTIPLE CHAMBERS MAY BE CONNECTED TO FORM DIFFERENT LENGTH ROWS. EACH ROW SHALL BEGIN AND END WITH A SEPARATELY FORMED CULTEC RECHARGER® 902HD END CAP. MAXIMUM INLET OPENING ON THE END CAP IS 30 INCHES (760 MM) HDPE OR 36 INCHES (900 MM) PVC.
  - THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV™ FC-48 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 10 INCHES (250 MM) HDPE AND 12 INCHES (300 MM) PVC.
  - THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV™ FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16 INCHES (406 MM) WIDE AND 49 INCHES (1245 MM) LONG.
  - THE NOMINAL STORAGE VOLUME OF THE RECHARGER 902HD CHAMBER SHALL BE 17.31 FT<sup>3</sup> // M<sup>3</sup> (1.61 M<sup>3</sup> / M). THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 902HD SHALL BE 63.47 FT<sup>3</sup> / UNIT (1.80 M<sup>3</sup> / UNIT) - WITHOUT STONE.
  - THE NOMINAL STORAGE VOLUME OF THE HVLV™ FC-48 FEED CONNECTOR SHALL BE 0.913 FT<sup>3</sup> / FT (0.085 M<sup>3</sup> / M) - WITHOUT STONE.
  - THE RECHARGER 902HD CHAMBER SHALL HAVE 5 CORRUGATIONS.
  - THE CHAMBER SHALL BE CAPABLE OF ACCEPTING A 6 INCH (150 MM) INSPECTION PORT OPENING AT THE TOP CENTER OF EACH CHAMBER, CENTERED ON THE CORRUGATION CREST.
  - THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY CONTROL AND ASSURANCE PROCEDURES.
  - MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 8.3 FEET (2.53 M).

END CAP PARAMETERS

- THE CULTEC RECHARGER® 902HD END CAP (REFERRED TO AS 'END CAP') SHALL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT (CULTEC.COM, 203-775-4416).
- THE END CAP SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.
- THE END CAP SHALL BE ARCHED IN SHAPE.
- THE END CAP SHALL BE JOINED AT THE BEGINNING AND END OF EACH ROW OF CHAMBERS USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.
- THE END CAP SHALL HAVE 5 CORRUGATIONS.
- THE NOMINAL DIMENSIONS OF THE END CAP SHALL BE 48.5 INCHES (1231 mm) TALL, 78 INCHES (1982 mm) WIDE AND 28.0 INCHES (711 mm) LONG. WHEN JOINED WITH A RECHARGER 902HD CHAMBER, THE INSTALLED LENGTH OF THE END CAP SHALL BE 24.0 INCHES (610 mm).
- THE NOMINAL STORAGE VOLUME OF THE END CAP SHALL BE 9.01 FT<sup>3</sup> / FT (0.83 m<sup>3</sup> / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF AN INTERLOCKED END CAP SHALL BE 18.02 FT<sup>3</sup> / UNIT (1.67 m<sup>3</sup> / UNIT) - WITHOUT STONE.
- MAXIMUM INLET OPENING ON THE END CAP IS 30 INCHES (760 mm) HDPE OR 36 INCHES (900 mm) PVC.
- THE END CAP SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12.

CULTEC HVLV FC-48 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL  
CULTEC HVLV FC-48 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 902HD STORMWATER CHAMBERS.

FEED CONNECTOR PARAMETERS

- THE FEED CONNECTOR SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE FEED CONNECTOR SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
- THE FEED CONNECTOR SHALL BE ARCHED IN SHAPE.
- THE FEED CONNECTOR SHALL BE OPEN-BOTTOMED.
- THE NOMINAL DIMENSIONS OF THE CULTEC HVLV FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 49 INCHES (1245 mm) LONG.
- THE NOMINAL STORAGE VOLUME OF THE HVLV FC-48 FEED CONNECTOR SHALL BE 0.913 FT<sup>3</sup> / FT (0.085 m<sup>3</sup> / m) - WITHOUT STONE.
- THE HVLV FC-48 FEED CONNECTOR SHALL HAVE 4 CORRUGATIONS.
- THE HVLV FC-48 FEED CONNECTOR MUST BE FORMED AS A WHOLE UNIT HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEE CONNECTIONS CREATING AN INTERNAL MANIFOLD.

- THE FEED CONNECTOR SHALL BE DESIGNED TO WITHSTAND AASHTO HS-25 DEFINED LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- THE FEED CONNECTOR SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE.

GEOTEXTILE PARAMETERS

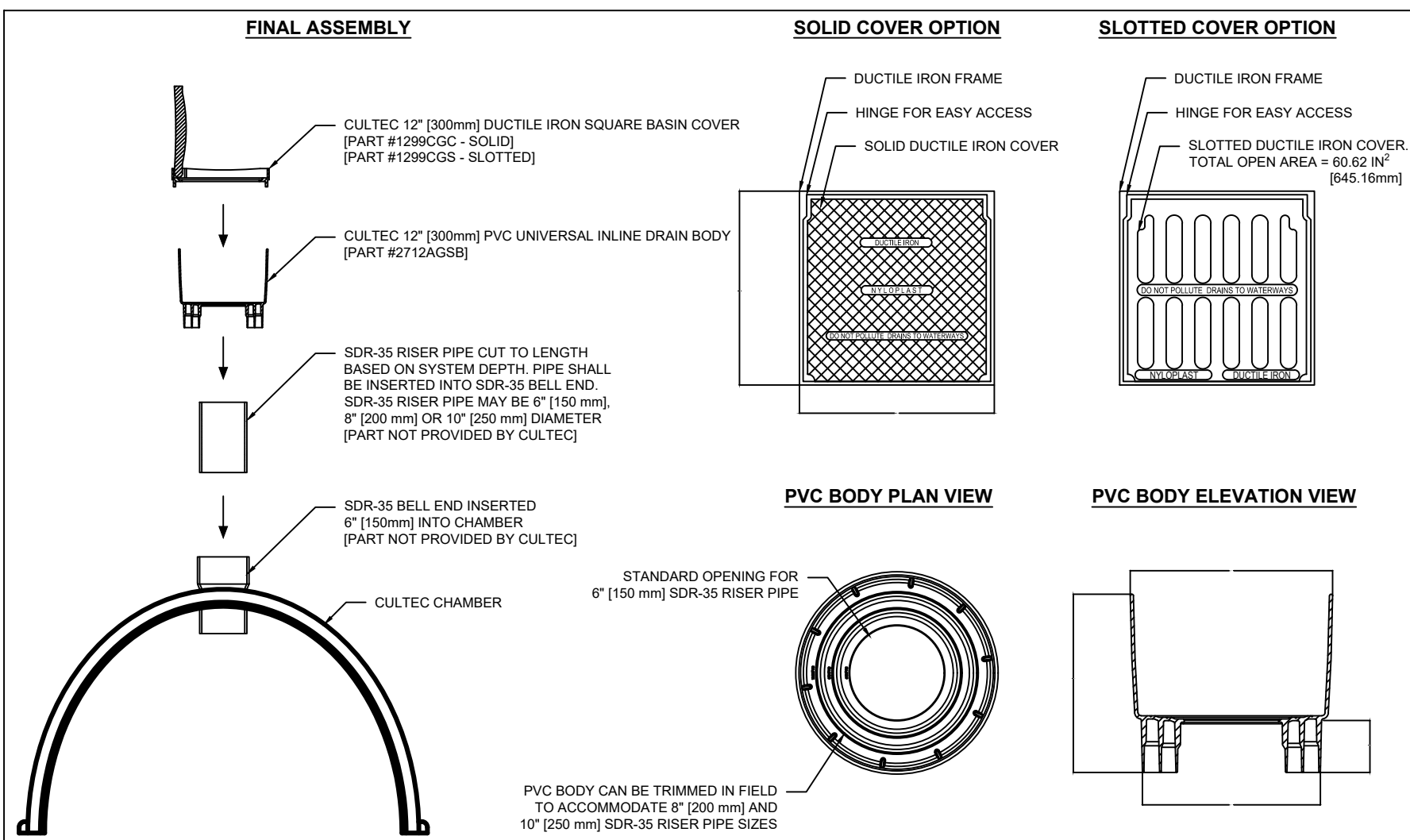
- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).
- THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A AOS VALUE OF 70 U.S. SIEVE (0.212 MM) PER ASTM D4751 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SM) PER ASTM D4491 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.

CULTEC AFAB-HPF™ WOVEN GEOTEXTILE

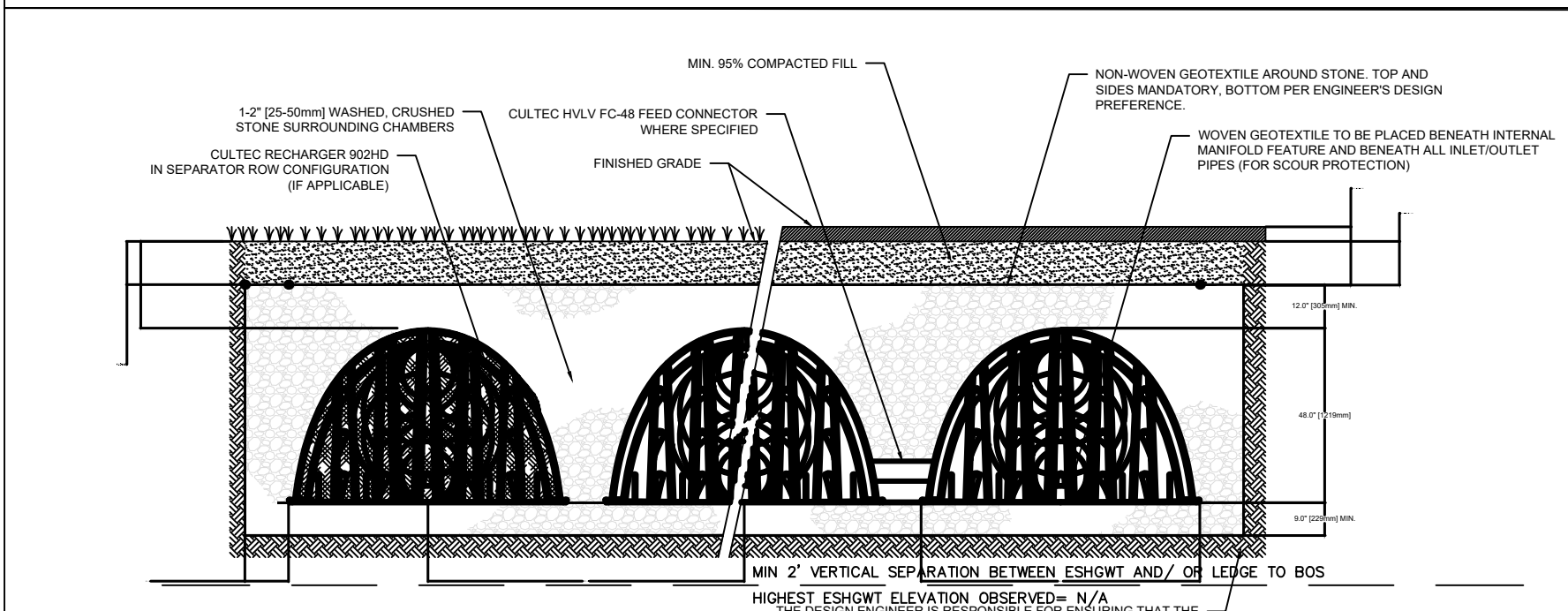
CULTEC AFAB-HPF WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.

GEOTEXTILE PARAMETERS

- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 320 X 320 LBS (1,420 X 1,420 N) PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A ELONGATION @ BREAK RESISTANCE OF 15 X 15% PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 3,563 X 3,563 LBS/FT (52 X 52 KN/M) PER ASTM D4595 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,500 LBS (6,670 N) PER ASTM D6241 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 120 X 120 LBS (540 X 540 N) PER ASTM D4533 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 30 US STD. SIEVE (0.60 MM) PER ASTM D4751 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.2 SEC-1 PER ASTM D4491 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 22 GPM/FT<sup>2</sup> (900 LPM/M<sup>2</sup>) PER ASTM D4491 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 70% @ 500 HRS. PER ASTM D4355 TESTING METHOD.



CULTEC UNIVERSAL INSPECTION PORT KIT DETAIL

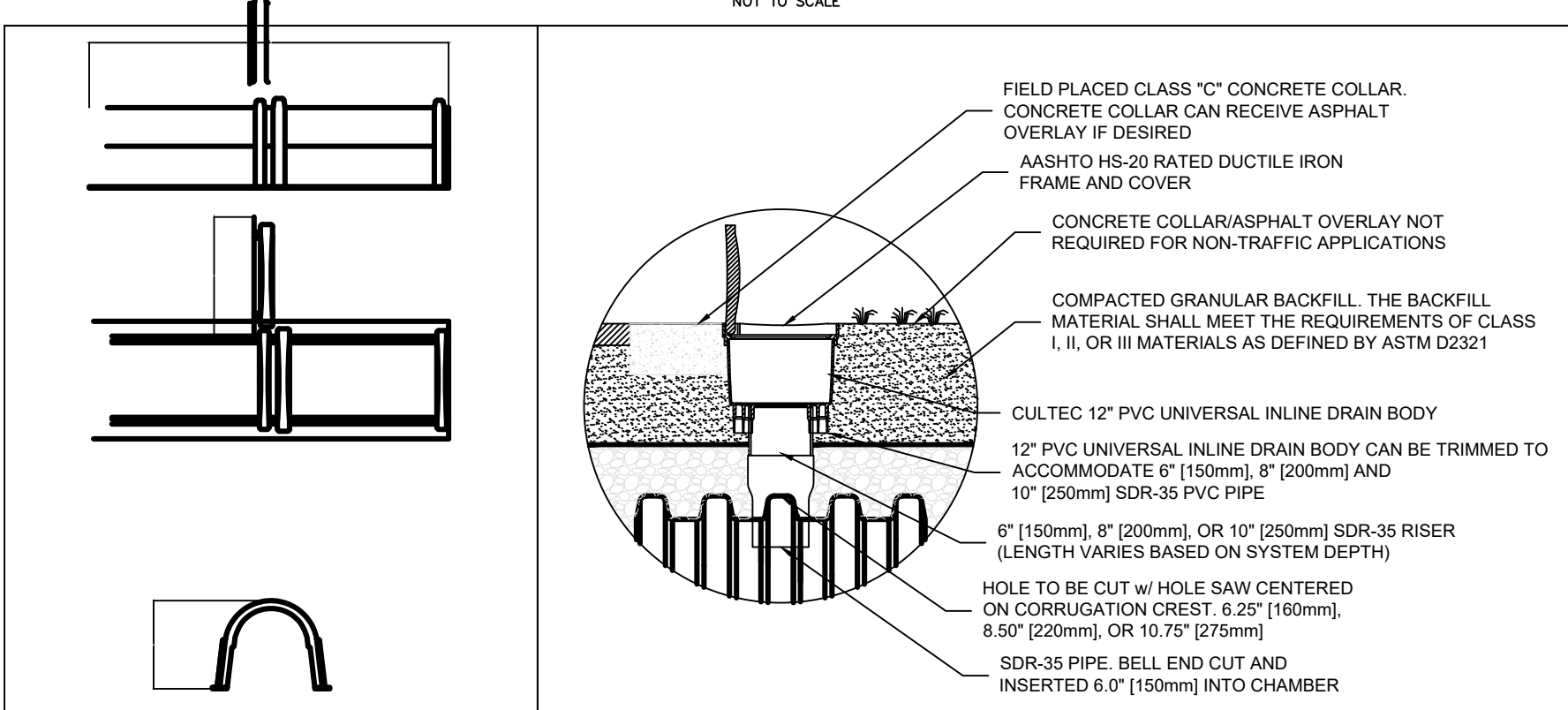


NOTES:

- THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:
  - INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
  - MAXIMUM PERMANENT (50-YEAR) COVER LOAD
  - 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD
- THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
  - THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
  - THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
  - THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95

SYSTEM:	LOWEST GRADE	TOS	TOC	INV. IN=	BOC	BOS	STONE BASE
#2	155.0'±	153.6'±	152.6'±	148.6'±	148.6'±	147.9'±	25.33'X27.67'X5.75'

CULTEC RECHARGER 902HD CROSS SECTION



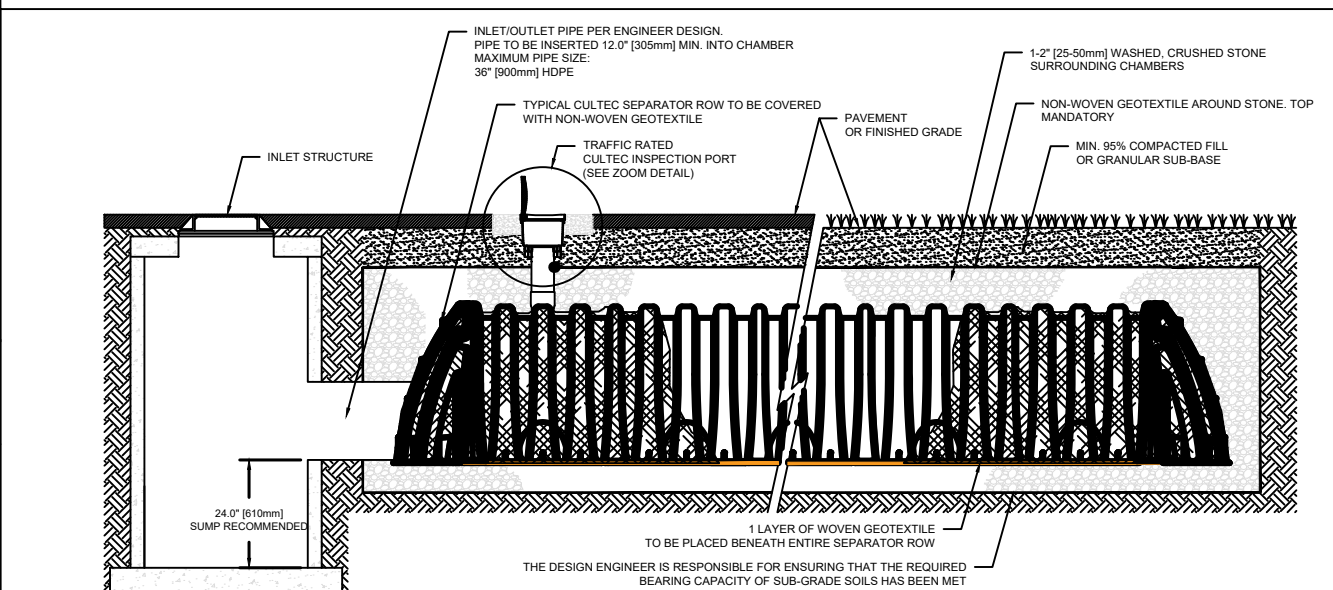
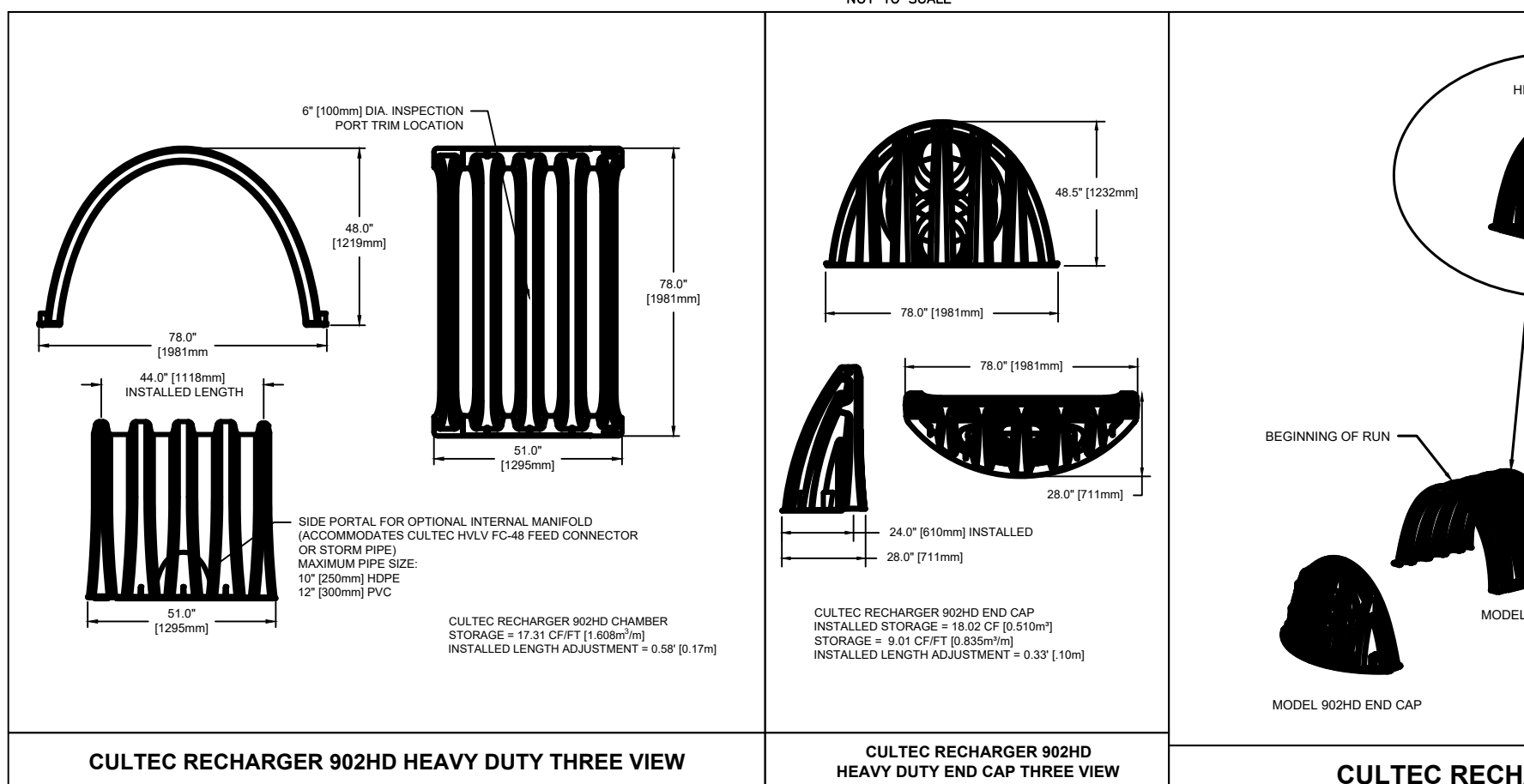
CULTEC HVLV FC-48 FEED CONNECTOR THREE VIEW

OPTIONAL CULTEC INSPECTION PORT - ZOOM DETAIL

PIPE	A	B
6" [150 mm]	38.00" [965 mm]	1.00" [25 mm]
8" [200 mm]	36.00" [914 mm]	1.00" [25 mm]
10" [250 mm]	33.80" [858 mm]	1.25" [32 mm]
12" [300 mm]	29.25" [743 mm]	1.75" [44 mm]
15" [375 mm]	25.75" [654 mm]	2.00" [50 mm]
18" [450 mm]	21.75" [552 mm]	2.50" [64 mm]
21" [525 mm]	18.75" [476 mm]	2.50" [64 mm]
24" [600 mm]	15.75" [400 mm]	2.50" [64 mm]
30" [750 mm]	7.75" [197 mm]	3.50" [89 mm]
36" [900 mm]	N/A	3.50" [89 mm]

\*THE TYPICAL INVERT TABLE ABOVE IS BASED ON THE INSIDE DIAMETER OF STANDARD CORRUGATED PLASTIC PIPE. THE HEAVY DUTY END CAP HAS PRE-MARKED TRIM LINES FOR PIPE DIAMETERS 12" (300mm), 15" (375mm), 18" (450mm) AND 24" (600mm). PIPES OF ANY SIZE AND MATERIAL UP TO 24" MAY BE PLACED AT CUSTOM LOCATIONS AND CUSTOM INVERTS. THE CROWN OF THE PIPE MUST REMAIN A MINIMUM OF 4" (100mm) FROM THE EDGE OF THE HEAVY DUTY END CAP.

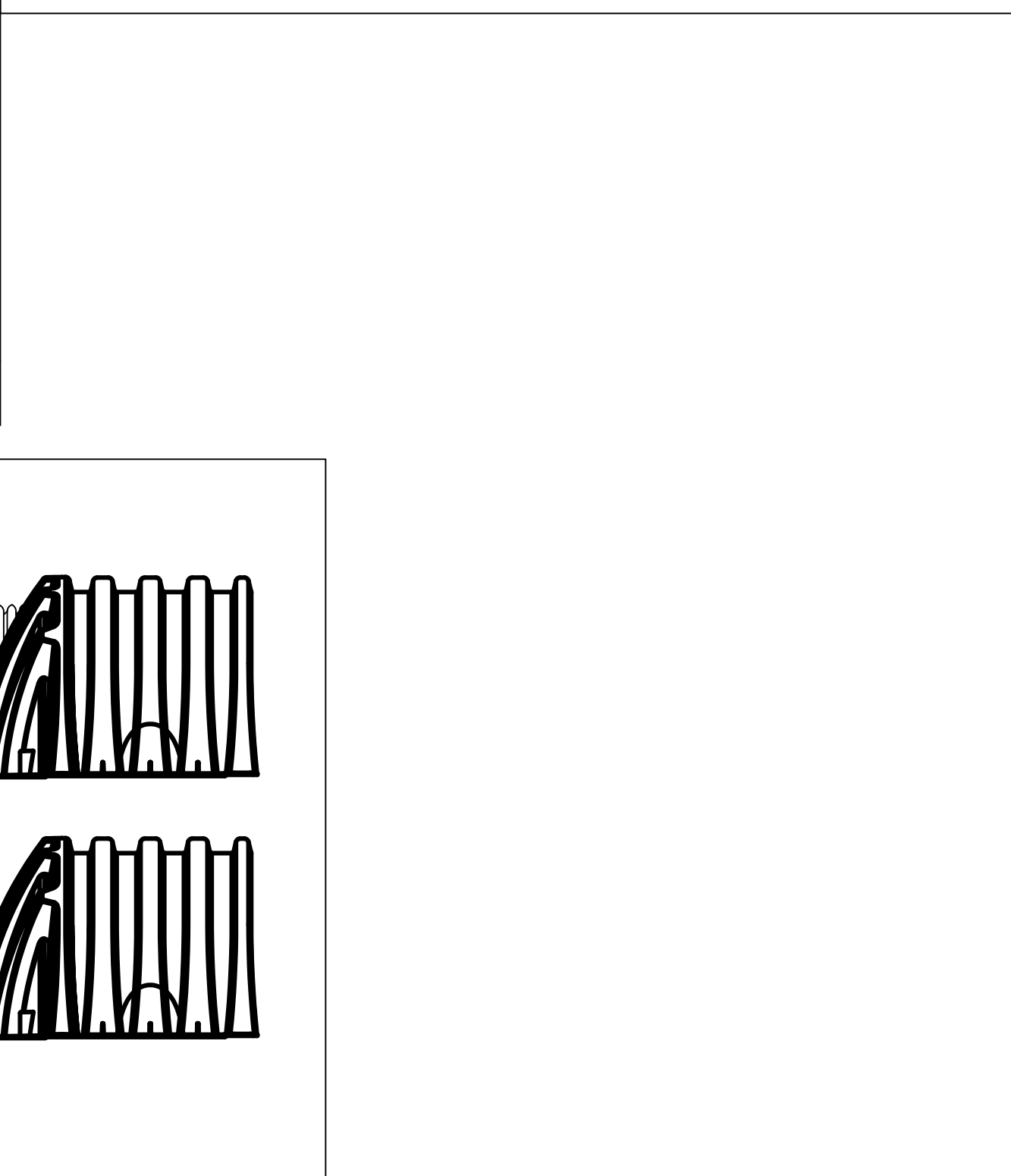
CULTEC RECHARGER 902HD TYPICAL PIPE INVERTS



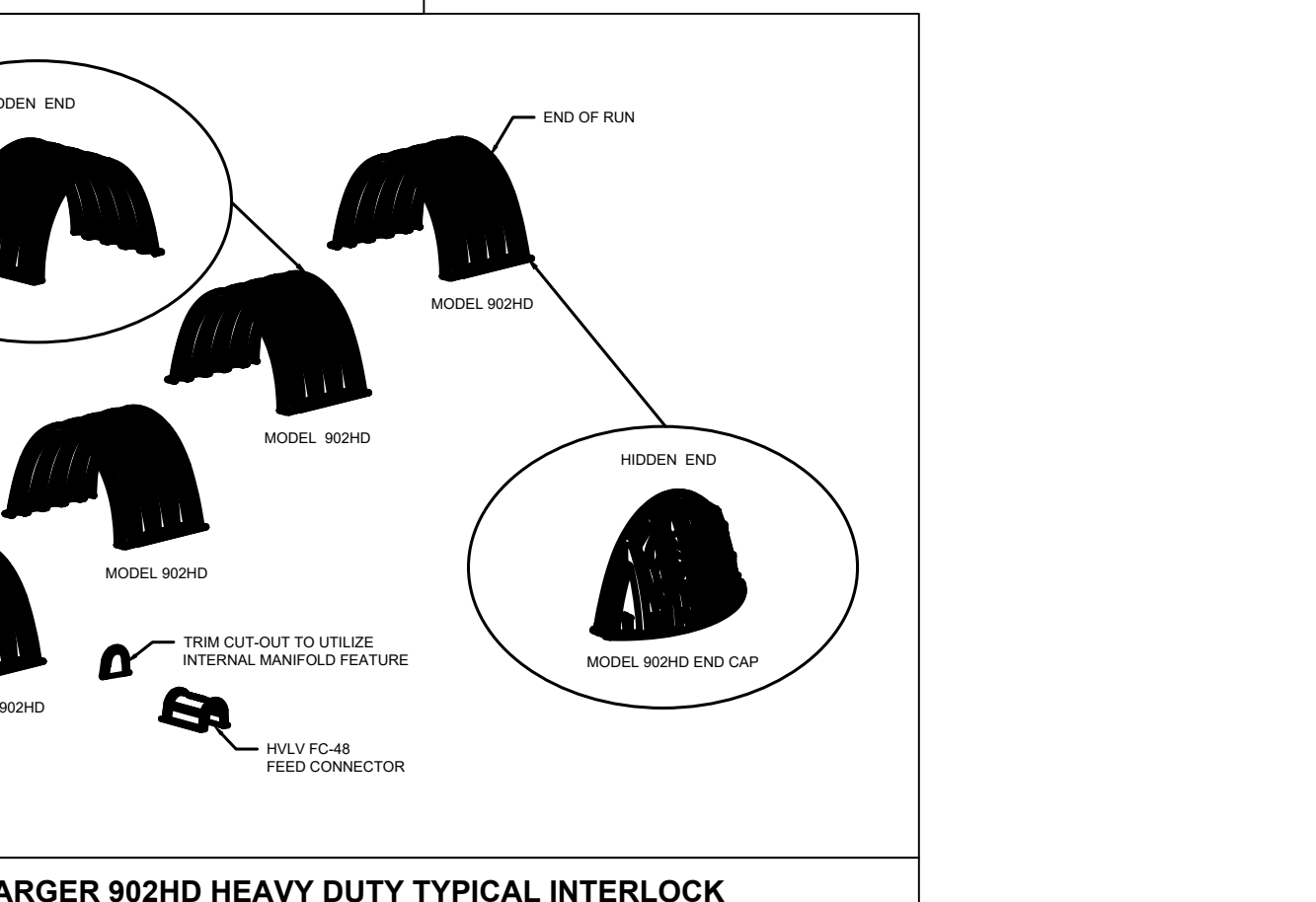
NOTES:

- THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:
  - INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
  - MAXIMUM PERMANENT (50-YEAR) COVER LOAD
  - 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD
- THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
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  - THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
  - THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
  - THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95

CULTEC SEPARATOR ROW - CULTEC INSPECTION PORT DETAIL (IF APPLICABLE)



CULTEC RECHARGER 902HD TYPICAL PIPE INVERTS



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CIVIL PLAN

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BY	DESCRIPTION	DATE
Y.L.	UPDATED PER DPW COMMENTS	11.7.25

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DRAWN BY:	Y.L.
CHECKED BY:	G.B.
APPROVED BY:	E.S.

DETAILS I

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EROSION CONTROL NOTES

1. THE EROSION CONTROL PLANS IN THIS SET SHALL BE REVIEWED AND IMPLEMENTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL WORK WITH THE PROJECT’S ENGINEER THROUGHOUT CONSTRUCTION TO ENSURE THE SITE IS PROPERLY PROTECTED FROM POSSIBLE POLLUTANTS. THE ENGINEER HAS AUTHORIZATION TO ADD OR REMOVE BMP MEASURES THROUGHOUT CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING SITE EROSION CONTROL AT ALL TIMES.
3. IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND THE PERMITTEE TO ENSURE THAT EROSION DOES NOT OCCUR FROM ANY ACTIVITY DURING OR AFTER PROJECT CONSTRUCTION. ADDITIONAL MEASURES, BEYOND THOSE SPECIFIED, MAY BE REQUIRED BY THE PLANNING DIRECTOR AS DEEMED NECESSARY TO CONTROL ACCELERATED EROSION.
4. AT THE END OF EACH WORKDAY, AT THE END OF EACH WORKWEEK, THE CONTRACTOR SHALL IMPLEMENT ALL TEMPORARY MEASURES NECESSARY TO PREVENT EROSION AND SILTATION, UNTIL THE PROJECT HAS BEEN FINALIZED. THESE MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, DIRECT SEEDING OF THE AFFECTED AREAS, STRAW MULCHING, AND/OR INSTALLATION OF STRAW BALES DAMS/SILT FENCES.
5. DURING CONSTRUCTION, NO TURBID WATER SHALL BE PERMITTED TO LEAVE THE SITE. USE OF SILT AND GREASE TRAPS, FILTER BERMS, HAY BALES OR SILT FENCES SHALL BE USED TO PREVENT SUCH DISCHARGE.
6. ALL AREAS ON- AND OFF-SITE EXPOSED DURING CONSTRUCTION ACTIVITIES, IF NOT PERMANENTLY LANDSCAPED PER PLAN, SHALL BE PROTECTED BY MULCHING AND/OR SEEDING.
7. ALL EXCAVATED MATERIAL SHALL BE REMOVED TO AN APPROVED DISPOSAL SITE OR DISPOSED OF ON-SITE IN A MANNER THAT WILL NOT CAUSE EROSION.
8. ANY MATERIAL STOCKPILED, FOR LONGER THAN 14 DAYS, DURING CONSTRUCTION SHALL BE COVERED WITH PLASTIC.
9. UPON COMPLETION OF CONSTRUCTION, ALL REMAINING EXPOSED SOILS SHALL BE PERMANENTLY REVEGETATED.
10. IT IS THE CONTRACTOR’S RESPONSIBILITY TO SEE THAT ADDITIONAL MEASURES NECESSARY TO CONTROL SITE EROSION AND PREVENT SEDIMENT TRANSPORT OFF-SITE ARE IMPLEMENTED.
11. ALL SPILLS AND/OR LEAKS SHALL BE IMMEDIATELY CLEANED UP AND MITIGATED.

FIBER ROLL CONSTRUCTION SPECIFICATIONS

1. PREPARE SLOPE BEFORE THE WATTLING PROCEDURE IS STARTED. SHALLOW GULLIES SHOULD BE SMOOTHED AS WORK PROGRESSES.
2. DIG SMALL TRENCHES ACROSS SLOPE ON CONTOUR, TO PLACE WATTLES IN. THE TRENCH SHOULD BE DEEP ENOUGH TO ACCOMMODATE HALF THE THICKNESS OF THE WATTLE. WHEN THE SOIL IS LOOSE AND UNCOMPACTED, THE TRENCH SHOULD BE DEEP ENOUGH TO BURY THE WATTLE 2/3 OF ITS THICKNESS BECAUSE THE GROUND WILL SETTLE. IT IS CRITICAL THAT WATTLES ARE INSTALLED PERPENDICULAR TO WATER MOVEMENT, PARALLEL TO THE SLOPE CONTOUR.
3. START BUILDING TRENCHES AND INSTALL WATTLES FROM THE BOTTOM OF THE SLOPE AND WORK UP.
4. CONSTRUCT TRENCHES AT CONTOUR INTERVALS OF THREE TO EIGHT FEET APART DEPENDING ON STEEPNESS OF SLOPE. THE STEEPER THE SLOPE, THE CLOSER TOGETHER THE TRENCHES.
5. LAY THE WATTLE ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL AND THE STRAW WATTLE. USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE WATTLE AND INTO THE SOIL FOR THE WOODEN STAKES.
6. DRIVE THE STAKE THROUGH THE PREPARED HOLE INTO THE SOIL. LEAVE ONLY ONE OR TWO INCHES OF STAKE EXPOSED ABOVE WATTLE. IF USING WILLOW STAKES REFER TO USDA SOIL CONSERVATION SERVICE TECHNICAL GUIDE, BIOENGINEERING, FOR GUIDELINES TO PREPARING LIVE WILLOW MATERIAL.
7. INSTALL STAKES AT LEAST EVERY FOUR FEET APART THROUGH WATTLE. ADDITIONAL STAKES MAY BE DRIVEN ON THE DOWNSLOPE SIDE OF THE TRENCHES ON HIGHLY EROSION OR VERY STEEP SLOPES.

FIBER ROLL INSTALLATION AND MAINTENANCE

8. INSPECT THE STRAW WATTLE AND THE SLOPES AFTER SIGNIFICANT STORMS. MAKE SURE THE WATTLES ARE IN CONTACT WITH THE SOIL.
9. REPAIR ANY RILLS OR GULLIES PROMPTLY.
10. RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED.

CONSTRUCTION MATERIALS

- ALL LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E. SOIL, SPOILS, AGGREGATE, FLY-ASH, STUCCO, HYDRATED LIME, ETC.) SHALL BE COVERED AND BERMED.
- ALL CHEMICALS SHALL BE STORED IN WATERTIGHT CONTAINERS (WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT ANY SPILLAGE OR LEAKAGE) OR IN A STORAGE SHED (COMPLETELY ENCLOSED).
- EXPOSURE OF CONSTRUCTION MATERIALS TO PRECIPITATION SHALL BE MINIMIZED. THIS DOES NOT INCLUDE MATERIALS AND EQUIPMENT THAT ARE DESIGNED TO BE OUTDOORS AND EXPOSED TO ENVIRONMENTAL CONDITIONS (I.E. POLES, EQUIPMENT PADS, CABINETS, CONDUCTORS, INSULATORS, BRICKS, ETC.).
- BEST MANAGEMENT PRACTICES TO PREVENT THE OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS SHALL BE IMPLEMENTED.

WASTE MANAGEMENT

- DISPOSAL OF ANY RINSE OR WASH WATERS OR MATERIALS ON IMPERVIOUS OR PERVIOUS SITE SURFACES OR INTO THE STORM DRAIN SYSTEM SHALL BE PREVENTED.
- SANITATION FACILITIES SHALL BE CONTAINED (E.G. PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER, AND SHALL BE LOCATED A MINIMUM 20 FEET AWAY FROM AN INLET, STREET OR DRIVEWAY, STREAM, RIPARIAN AREA OR OTHER DRAINAGE FACILITY.
- SANITATION FACILITIES SHALL BE INSPECTED REGULARLY FOR LEAKS AND SPILLS AND CLEANED OR REPLACED AS NECESSARY.
- COVER WASTE DISPOSAL CONTAINERS AT THE END OF EVERY BUSINESS DAY AND DURING A RAIN EVENT.
- DISCHARGES FROM WASTE DISPOSAL CONTAINERS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER SHALL BE PREVENTED.
- STOCKPILED WASTE MATERIAL SHALL BE CONTAINED AND SECURELY PROTECTED FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED.
- PROCEDURES THAT EFFECTIVELY ADDRESS HAZARDOUS AND NON-HAZARDOUS SPILLS SHALL BE IMPLEMENTED.EQUIPMENT AND MATERIALS FOR CLEANUP OF SPILLS SHALL BE AVAILABLE ON SITE AND THAT SPILLS AND LEAKS SHALL BE CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY; AND
- CONCRETE WASHOUT AREAS AND OTHER WASHOUT AREAS THAT MAY CONTAIN ADDITIONAL POLLUTANTS SHALL BE CONTAINED SO THERE IS NO DISCHARGE INTO THE UNDERLYING SOIL AND ONTO THE SURROUNDING AREAS.

VEHICLE STORAGE AND MAINTENANCE

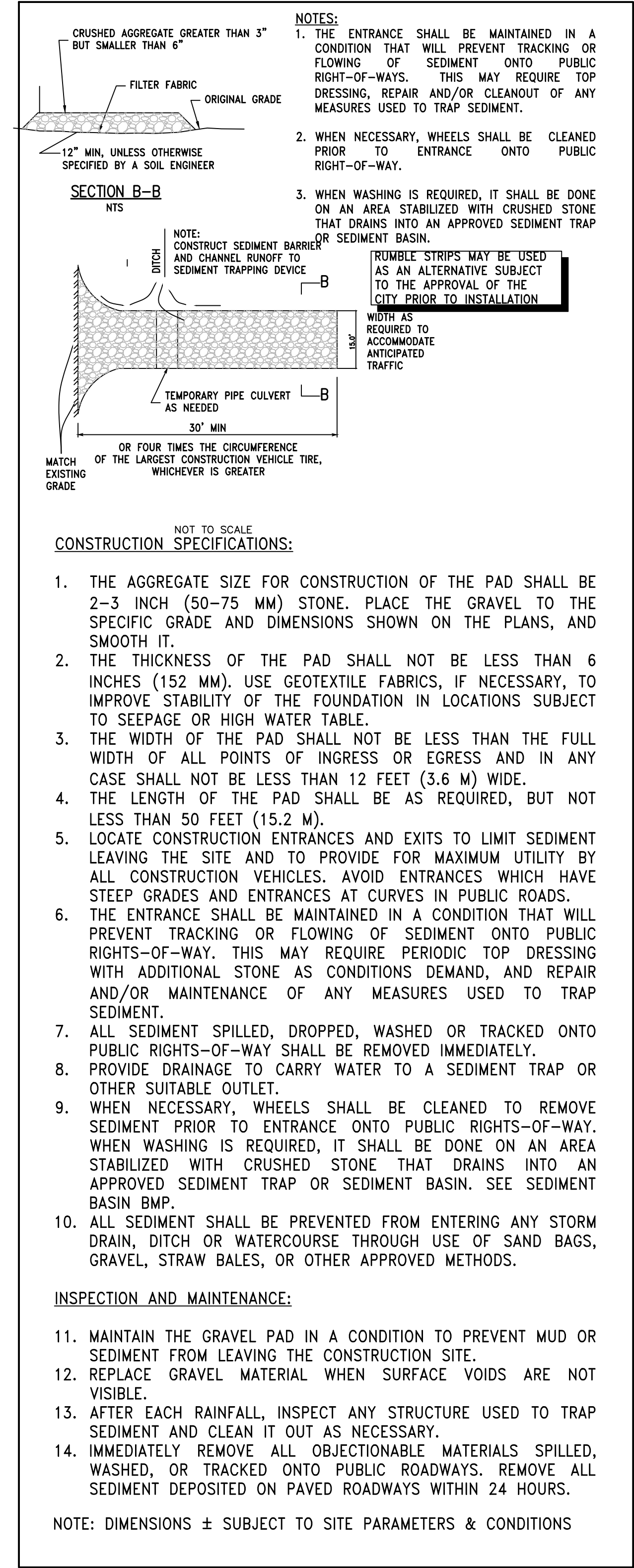
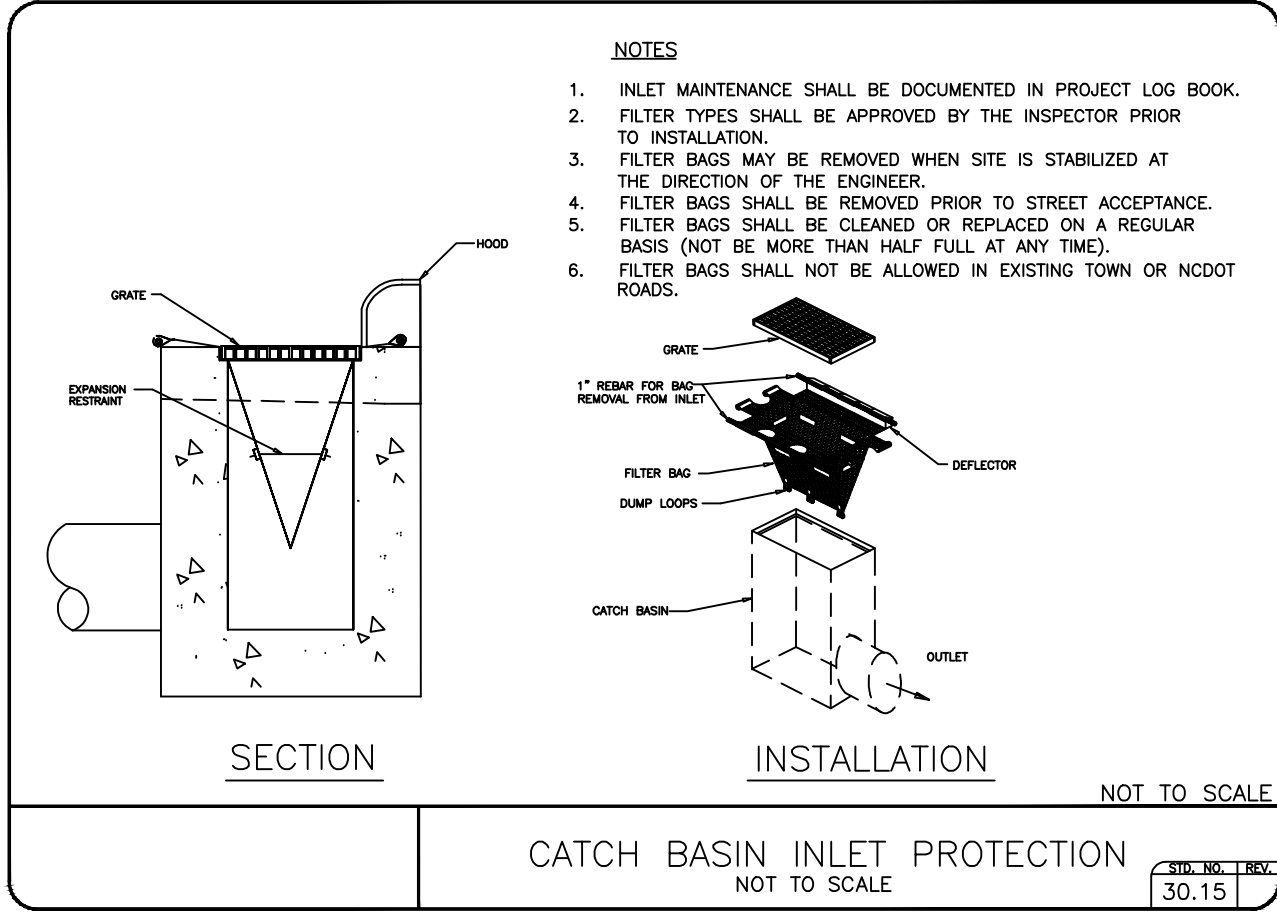
- MEASURES SHALL BE TAKEN TO PREVENT OIL, GREASE, OR FUEL TO LEAK IN TO THE GROUND, STORM DRAINS OR SURFACE WATERS.
- ALL EQUIPMENT OR VEHICLES, WHICH ARE TO BE FUELED, MAINTAINED AND STORED ONSITE SHALL BE IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPS.
- LEAKS SHALL BE IMMEDIATELY CLEANED AND LEAKED MATERIALS SHALL BE DISPOSED OF PROPERLY.

LANDSCAPE MATERIALS

- CONTAIN STOCKPILED MATERIALS SUCH AS MULCHES AND TOPSOIL WHEN THEY ARE NOT ACTIVELY BEING USED
- CONTAIN FERTILIZERS AND OTHER LANDSCAPE MATERIALS WHEN THEY ARE NOT ACTIVELY BEING USED.
- DISCONTINUE THE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN 2 DAYS BEFORE A FORECASTED RAIN EVENT OR DURING PERIODS OF PRECIPITATION.
- APPLY ERODIBLE LANDSCAPE MATERIAL AT QUANTITIES AND APPLICATION RATES ACCORDING TO MANUFACTURE RECOMMENDATIONS OR BASED ON WRITTEN SPECIFICATIONS BY KNOWLEDGEABLE AND EXPERIENCED FIELD PERSONNEL.
- STACK ERODIBLE LANDSCAPE MATERIAL ON PALLETS AND COVERING OR STORING SUCH MATERIALS WHEN NOT BEING USED OR APPLIED.

INSPECTION AND MAINTENANCE:

1. FILTER FABRIC BARRIERS SHALL BE INSPECTED WEEKLY AFTER EACH SIGNIFICANT STORM – 1 INCH RAINFALL (25.4 MM) IN 24 HOUR PERIOD. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 0.5” MAXIMUM HEIGHT. AT THAT TIME INSPECT THE FILTER MATERIAL FOR TEARS AND CLEAN OR REPLACE AS REQUIRED.
3. THE REMOVED SEDIMENT SHALL BE DISTRIBUTED EVENLY ACROSS AREAS ON-SITE, CONFORM WITH THE EXISTING GRADE AND BE REVEGETATED OR OTHERWISE STABILIZED PER EROSION CONTROL NOTES.



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CIVIL PLAN

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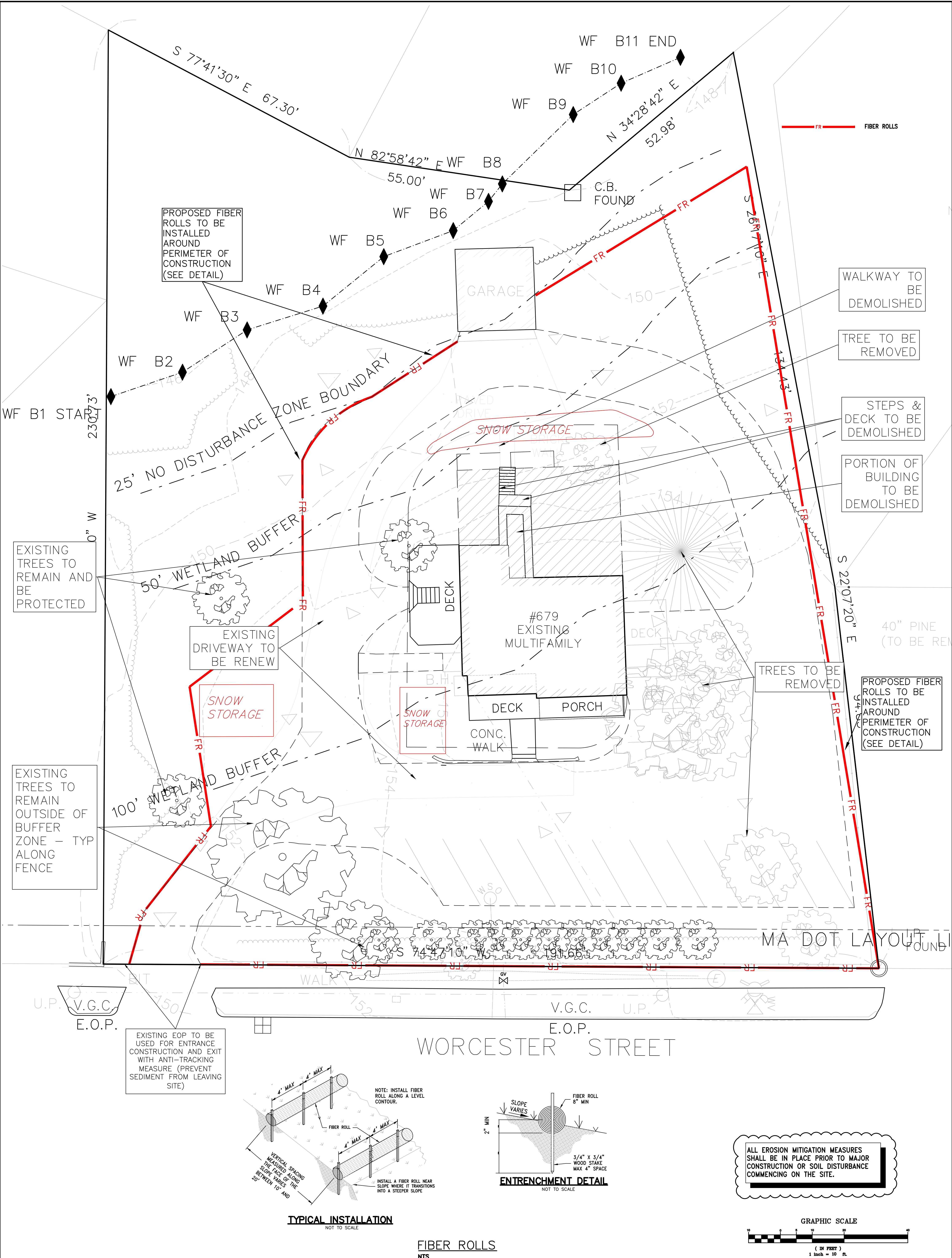
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CHECKED BY: G.B.  
APPROVED BY: E.S.


EROSION CONTROL  
& DEMOLITION  
PLAN  
(NOTES)

SHEET C4.0









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**CIVIL PLAN**

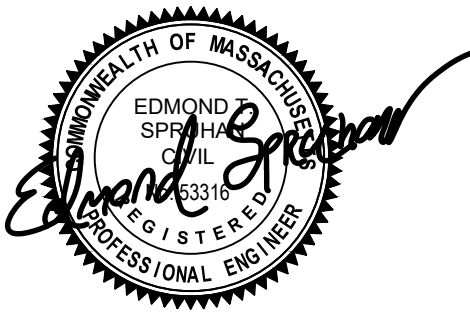
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BY	DESCRIPTION	DATE
Y.L.	UPDATED PER DPW COMMENTS	11.7.25

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CHECKED BY:	G.B.
APPROVED BY:	E.S.

**EROSION CONTROL & DEMOLITION PLAN**

**SHEET C4.1**





**TABLE OF CONTENTS**

A1 TITLE PAGE  
A2 EXISTING FLOOR PLANS  
A3 EXISTING FLOOR PLANS  
A4 PROPOSED PLOT PLAN  
A5 PROPOSED BASEMENT PLAN  
A6 PROPOSED FIRST FLOOR PLAN  
A7 PROPOSED SECOND & THIRD FLOOR PLANS  
A8 DIAGRAM - DU #1VS. DU #2 VS. ABLs  
A9 EXISTING EXTERIOR ELEVATIONS  
A10 EXISTING EXTERIOR ELEVATIONS  
A11 PROPOSED EXTERIOR ELEVATIONS  
A12 PROPOSED EXTERIOR ELEVATIONS  
A13 PROPOSED EXTERIOR ELEVATIONS  
A14 PROPOSED EXTERIOR ELEVATIONS

**SCOPE OF WORK:**

ADDITION, INTERIOR REMODEL, SIDING,  
ROOFING, EXTERIOR HARDSCAPE.

**GENERAL NOTES:**

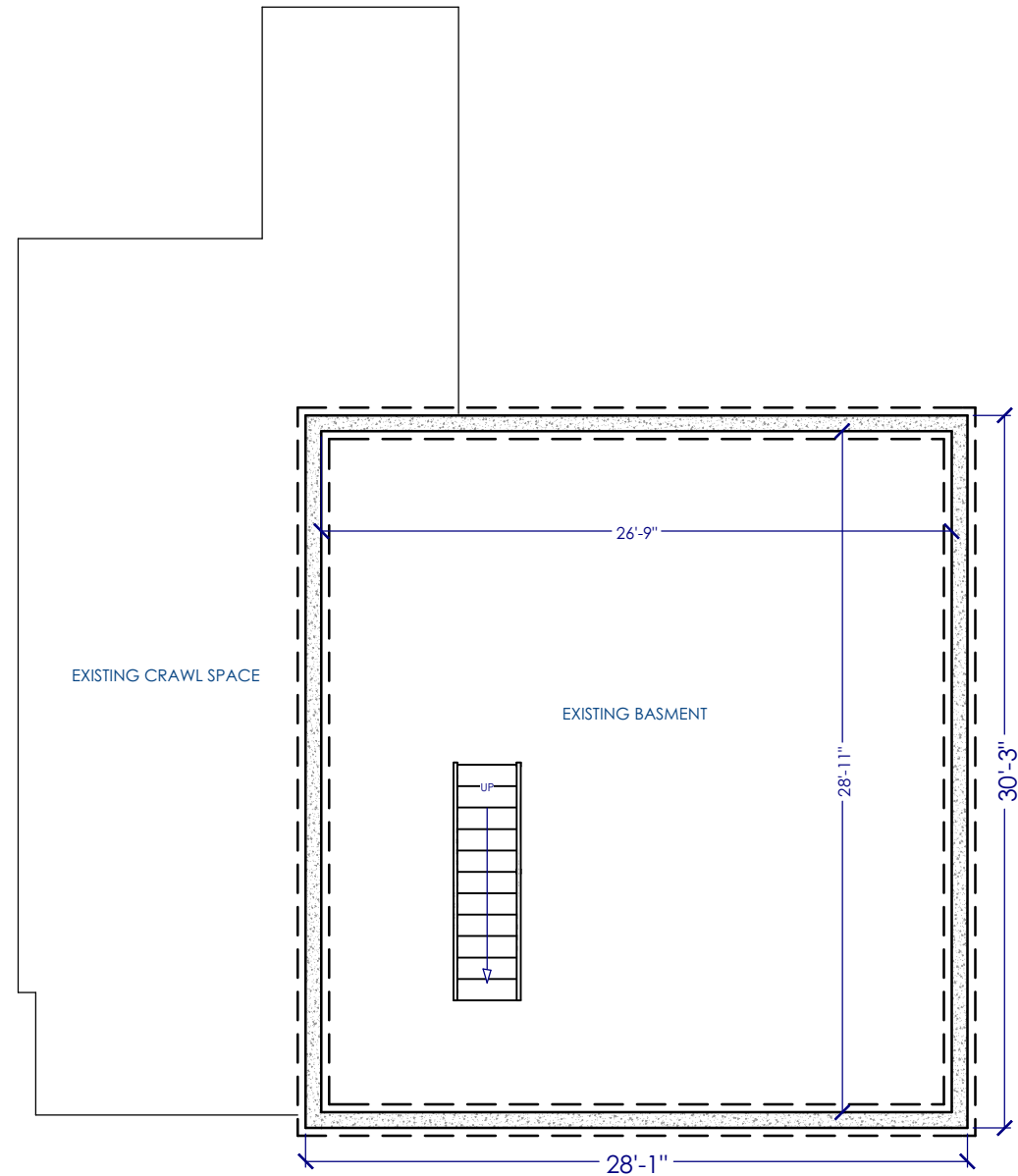
- 1: ALL DIMENSIONS ARE TO/FROM FINISH TO FINISH UNLESS OTHERWISE NOTED.  
2: ALL DIMENSIONS TO BE VERIFIED IN FIELD DURING DEMOLITION PHASE.  
3: THESE DRAWINGS WERE PRODUCED WITH THE INTENTION TO BE USED FOR REMODELWERKS DESIGN/BUILD SYSTEM, AND THEY DO NOT CONTAIN SUFFICIENT DETAILS FOR USE BY OTHER BUILDING/REMODELING COMPANIES. RW AND THE DESIGNER SHALL NOT BE HELD LIABLE OR FINANCIALLY RESPONSIBLE FOR ANY REASON IF OTHER CONTRACTORS PERFORM THE CONSTRUCTION. THESE DRAWINGS MUST BE FIELD VERIFIED FOR ANY AND ALL CONDITIONS, DIMENSIONS, CONFORMITY WITH CODES, ETC.  
4: THIS IS A SCHEMATIC SET OF DRAWINGS AND ARE NOT TO BE USED FOR CONSTRUCTION.

**DRAWINGS PREPARED BY:**

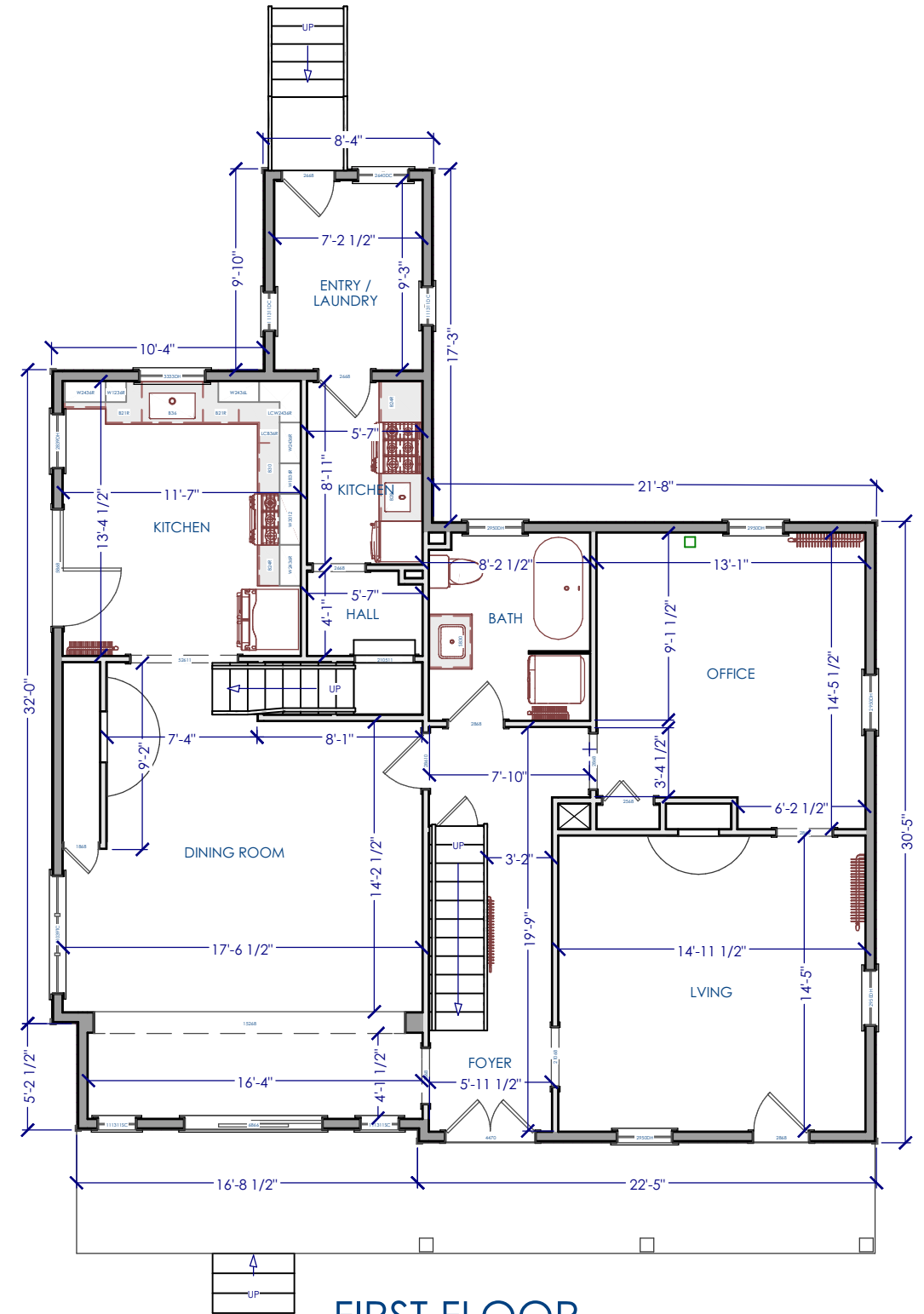


**ABLS / VARGAS-IRWIN**  
**679 WORCESTER STREET, WELLESLEY, MA 02482**





**BASEMENT**



**FIRST FLOOR**

**EXISTING FLOOR PLANS**  
1/8" = 1'-0"



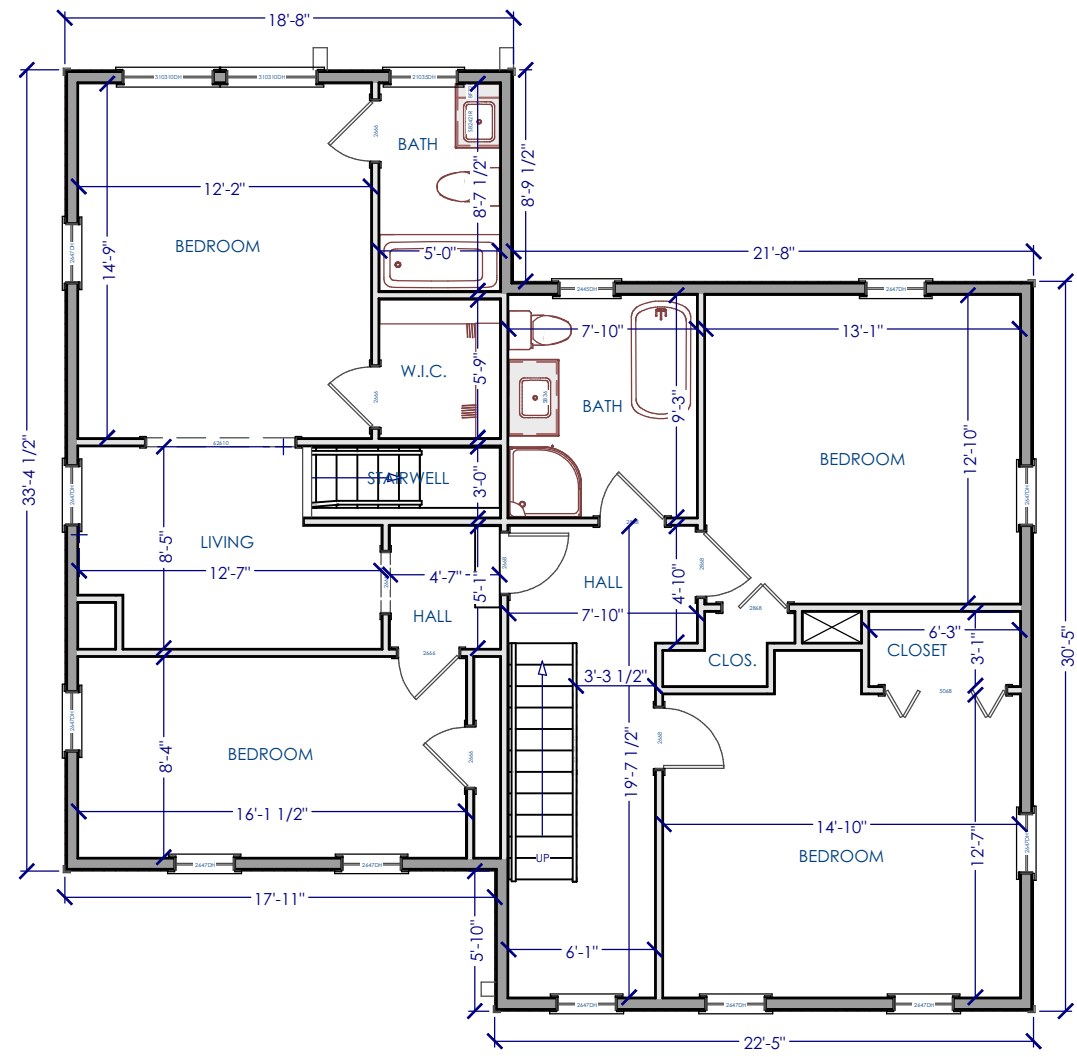
PROJECT DESCRIPTION:  
 ABL / VARGAS-IRWIN

SHEET TITLE:  
 EXISTING FLOOR PLANS

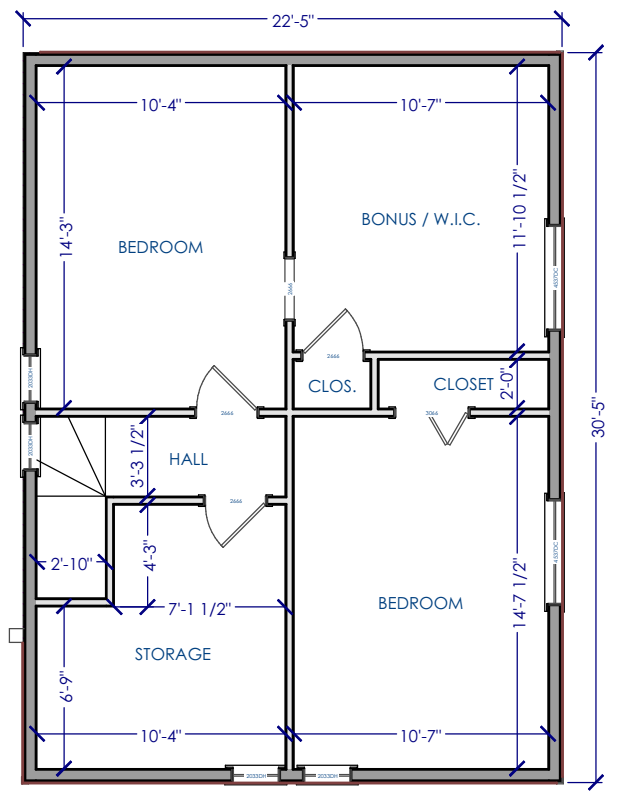
NO.	DESCRIPTION	BY	DATE
1	SCHEMATIC	GEF	01.07.25

SCALE:	DATE:
AS NOTED	01.07.25

**A-2**



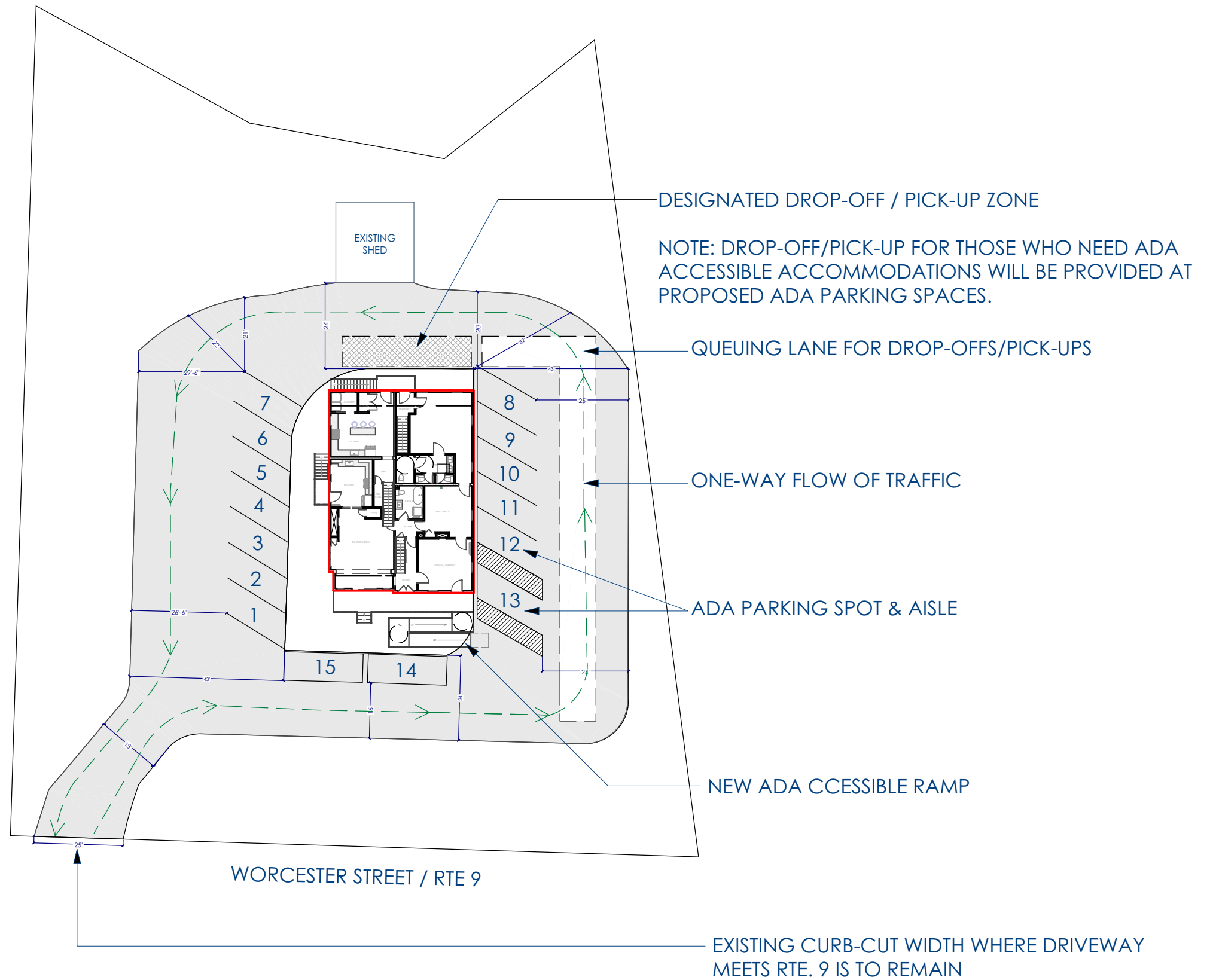
SECOND FLOOR



THIRD FLOOR

EXISTING FLOOR PLANS  
1/8" = 1'-0"





**PROPOSED PLOT PLAN**  
**NOT TO SCALE**



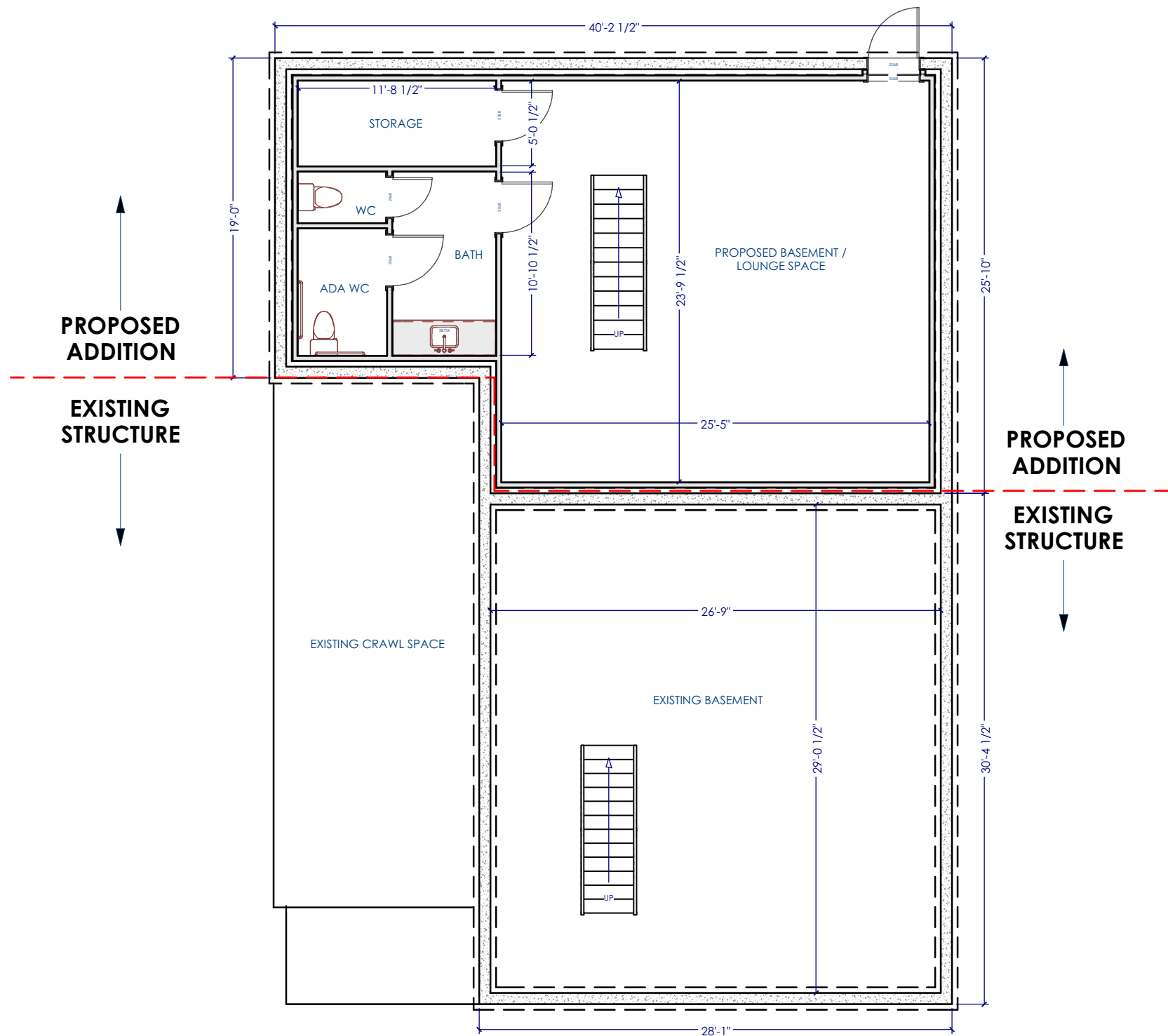
PROJECT DESCRIPTION:  
 ABLS / VARGAS-IRWIN

SHEET TITLE:  
 PROPOSED PLOT PLAN

NO.	DESCRIPTION	BY	DATE
1	SCHEMATIC	GEF	01.07.25

SCALE:	DATE:
AS NOTED	01.07.25

**A-4**



**PROPOSED BASEMENT PLAN**  
**1/8" = 1'-0"**



PROJECT DESCRIPTION:  
ABLS / VARGAS-IRWIN

SHEET TITLE:  
PROPOSED BASEMENT  
PLAN

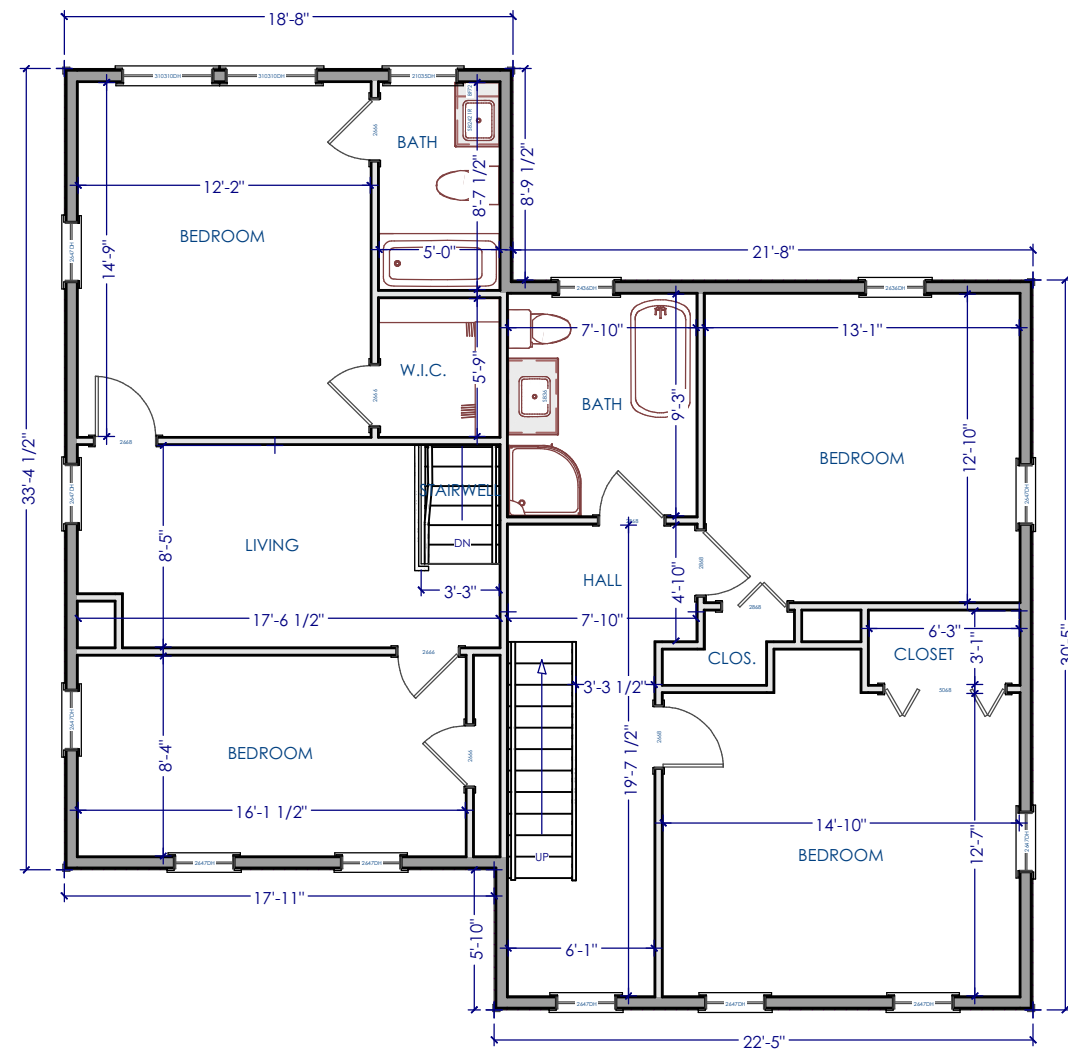
NO.	DESCRIPTION	BY	DATE
1	SCHEMATIC	GEF	01.07.25

SCALE:	DATE:
AS NOTED	01.07.25

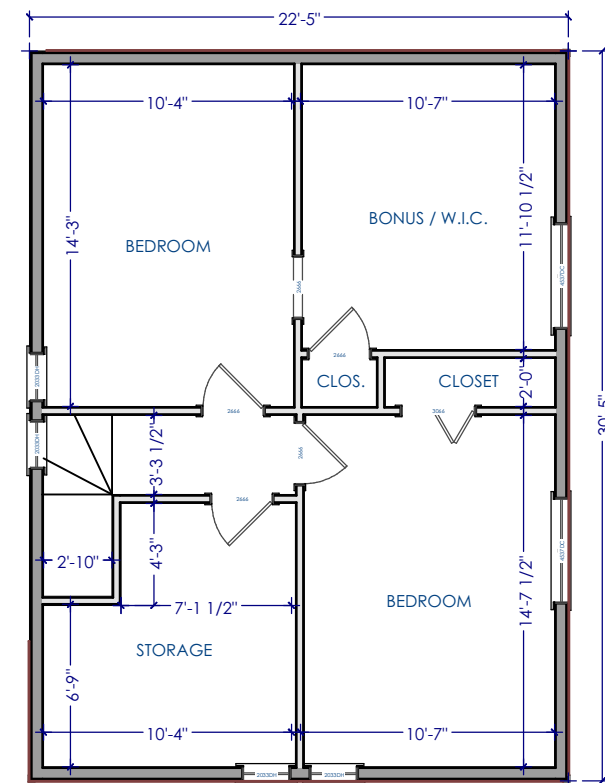
**A-5**







SECOND FLOOR



THIRD FLOOR

PROPOSED SECOND & THIRD FLOOR PLANS  
 1/8" = 1'-0"



PROJECT DESCRIPTION:  
 ABLS / VARGAS-IRWIN

SHEET TITLE:  
 PROPOSED SECOND &  
 THIRD FLOOR PLAN

NO.	DESCRIPTION	BY	DATE
1	SCHEMATIC	GEF	01.07.25

SCALE:	DATE:
AS NOTED	01.07.25

A-7



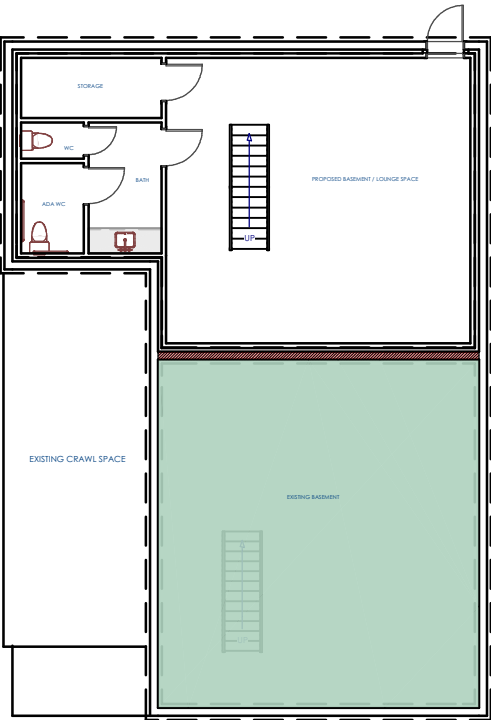
LEGEND

ABLS FACILITY

DWELLING UNIT #1

DWELLING UNIT #2

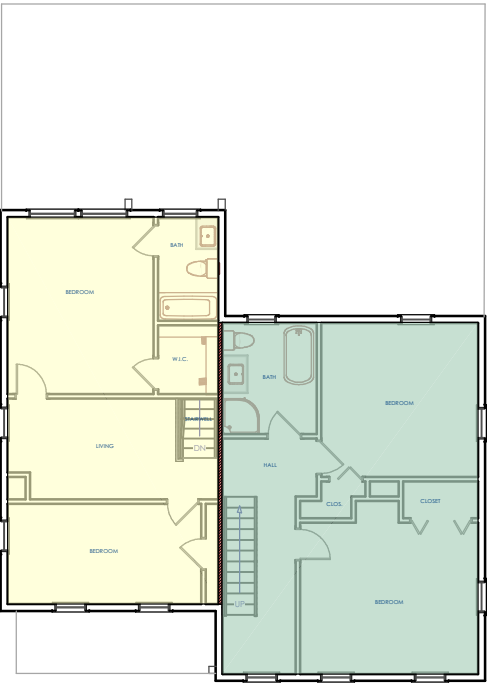
FIRE RATED SEPARATION



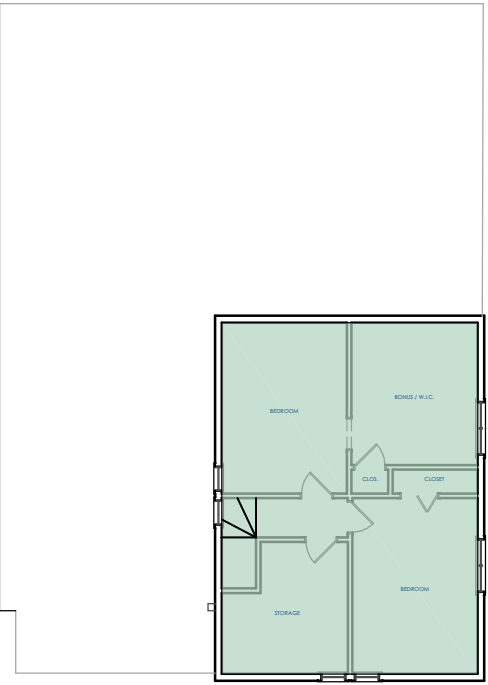
BASMENT



FIRST FLOOR



SECOND FLOOR



THIRD FLOOR

DIAGRAM - DU #1 VS. DU #2 VS. ABLs  
1/8" = 1'-0"



FRONT ELEVATION



RIGHT ELEVATION

EXISTING EXTERIOR ELEVATIONS  
1/8" = 1'-0"



REAR ELEVATION



LEFT ELEVATION

EXISTING EXTERIOR ELEVATIONS

1/8" = 1'-0"



PROJECT DESCRIPTION:

ABLS / VARGAS-IRWIN

SHEET TITLE:

EXISTING EXTERIOR  
ELEVATIONS

NO.	DESCRIPTION	BY	DATE
1	SCHEMATIC	GEF	01.07.25

SCALE:

AS NOTED

DATE:

01.07.25

A-10





PROPOSED EXTERIOR ELEVATIONS - FRONT  
1/8" = 1'-0"



PROPOSED EXTERIOR ELEVATIONS - RIGHT  
1/8" = 1'-0"



PROPOSED EXTERIOR ELEVATIONS - REAR  
1/8" = 1'-0"





PROPOSED EXTERIOR ELEVATIONS - LEFT  
1/8" = 1'-0"