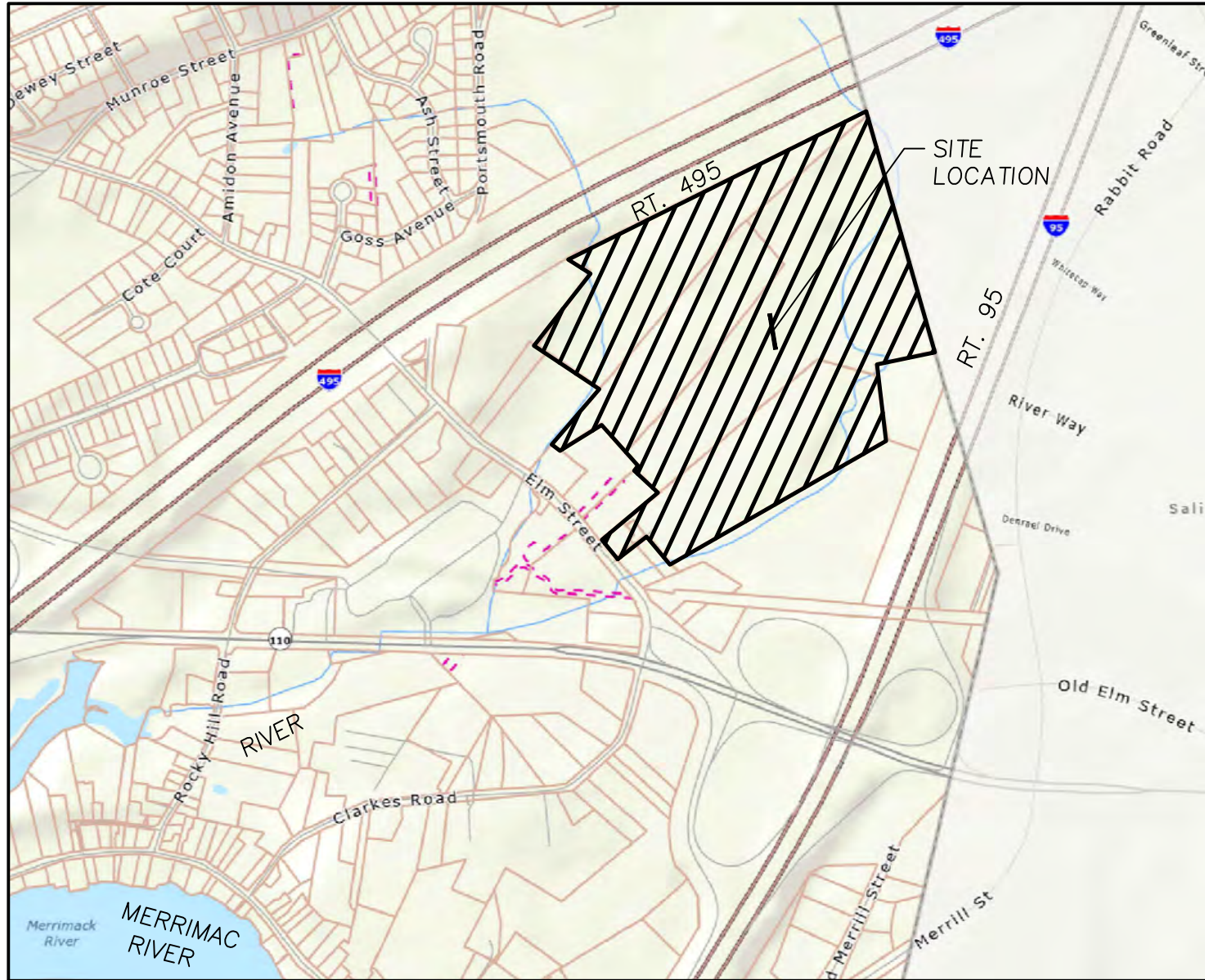




LOCUS MAP
N.T.S.

PROPOSED SITE PLAN REVIEW PLANS
ROCKY HILL MBTA COMMUNITY
AT ELM STREET
IN
AMESBURY, MA
AUGUST 2025

I CERTIFY:
THAT THIS PLAN CONFORMS
TO THE RULES AND REGULATIONS
OF THE REGISTER OF DEEDS.

DATE

FOR REGISTRY USE

AMESBURY PLANNING
BOARD APPROVAL

DATE

CITY OF AMESBURY
OFFICE OF THE CITY OF THE CLERK

THIS IS TO CERTIFY THAT ON _____
I RECEIVED FROM THE AMESBURY PLANNING
BOARD CERTIFICATION OF ITS APPROVAL OF
THIS PLAN AND THAT DURING THE (20)
TWENTY DAYS NEXT FOLLOWING I HAVE
RECEIVED NO NOTICE OF ANY APPEAL FROM
SAID DECISION.

CLERK _____ DATE

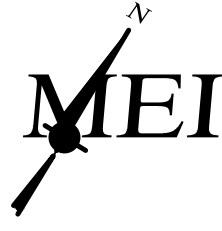
PLAN INDEX

SHEET NO.	TITLE
C-1.0	COVER SHEET
C-2.0	GENERAL NOTES & LEGEND
C-3.0 - C3.8	BOUNDARY & EXISTING CONDITIONS
C-4.0	OVERALL SITE KEY PLAN
C-5.0, 5.1, 5.2 & 5.3	SITE LAYOUT PLANS
C-6.0, 6.1, 6.2, 6.3, 6.4 & 6.5	SITE GRADING & DRAINAGE PLANS
C-7.0, 7.1, 7.2, 7.3 & 7.4	SITE UTILITIES PLANS
C-8.0, 8.1, 8.2, 8.3 & 8.4	ROADWAY AND UTILITY PROFILES
C-9.0, 9.1, 9.2 & 9.3	EROSION & SEDIMENTATION CONTROL PLANS
C-10.0 - C10.6	CONSTRUCTION DETAILS
L1_0 - L_3	LANDSCAPE STREET TREE PLANS
L2_0 - L2_4	LANDSCAPE COMMON AREAS ENLARGED PLANS (A-D)
L3_0 - L3_2	LANDSCAPE TYPICAL DETAILS
L3_4	ENTRANCE @ ELM STREET DETAILS



PREPARED FOR
DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY		



MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

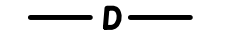
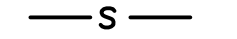
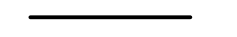
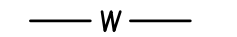
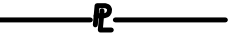
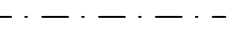
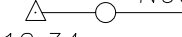
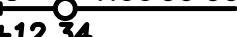
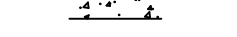
DATE: AUG. 11, 2025	CALC. BY: J.T.M. CHKD. BY: S.B.S.	PROJECT: M244407
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ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

**COVER
SHEET**

SHEET: C1.0

GENERAL NOTES

LEGEND		
EXISTING	PROPOSED	
	 CB	CATCH BASIN (OR GUTTER INLET, OR LEACHING BASIN)
	 CB GIC (OR GIC)	CATCH BASIN (OR GUTTER INLET) WITH CURB INLET
		CURB (OR BERM) – TYPE NOTED
		EDGE OF ROAD
		CONTOUR
		SEWER MANHOLE
		DRAINAGE MANHOLE
		GAS GATE
		WATER GATE
		SEPTIC TANK
		HYDRANT
	 FA	FIRE ALARM BOX
		POST MOUNTED PEDESTRIAN LIGHT
		UTILITY POLE
		DRAIN PIPE
		SEWER MAIN
		SEWER FORCE MAIN
	 UE	UNDERGROUND ELECTRIC
		WATER MAIN
	 MB	MAIL BOX
		HIGHWAY GUARD (TYPE NOTED)
		FENCE (SIZE AND TYPE NOTED)
		EASEMENT LINE
		PROPERTY LINE
		100 FT BUFFER ZONE
	 PC 8 N00°00'00" E	BASE OR SURVEY LINE
	 +12.34	CONSTRUCTION BASELINE
		WHEELCHAIR RAMP (WCR)
		CONCRETE SIDEWALK
		HAND CORE
	 SF	SILT SOCK
		WETLAND
		INFILTRATOR

1. THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS. ANY PROPOSED REVISIONS TO THE WORK SHALL NOT BE UNDERTAKEN UNTIL REVIEWED AND APPROVED BY THE OWNER AND REGULATING CITY AND/OR STATE AGENCIES.
2. THE CONTRACTOR SHALL INSTALL ALL SYSTEM COMPONENTS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND ALL APPLICABLE ELECTRICAL, PLUMBING, AND SANITARY CODES.
3. ALL WORK SHALL CONFORM TO: THE AMESBURY PLANNING BOARD RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, AMESBURY CONSERVATION COMMISSION ORDER OF CONDITIONS, NPDES CONSTRUCTION GENERAL PERMIT; AND THESE PLANS.
4. THE LOCATION OF ALL UTILITIES, AS SHOWN ON THESE PLANS, ARE BASED UPON PLANS AND RECORD INFORMATION PROVIDED BY MUNICIPAL AND PRIVATE UTILITY COMPANIES AND ARE CONSIDERED APPROXIMATE BOTH AS TO SIZE AND LOCATION. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL NOT RELY ON THESE PLANS FOR SUCH INFORMATION AND WILL MAKE EXAMINATIONS IN THE FIELD BY VARIOUS AVAILABLE RECORDS, UTILITY COMPANIES AND INDIVIDUALS, AS TO THE LOCATION OF ALL SUBSURFACE STRUCTURES.
5. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BY CONTACTING "DIG-SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION. DIG-SAFE TELEPHONE NUMBER: 1-888-344-7233.
6. THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE NEW WORK. HE/SHE SHALL EXCAVATE TO VERIFY PERTINENT DRAINAGE INVERTS AND POTENTIAL UTILITY CONFLICTS. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER IMMEDIATELY.
7. ALL EXISTING STRUCTURES AND SURFACES, UNLESS OTHERWISE SHOWN, SHALL BE COMPLETELY REMOVED FROM THE AREAS OF WORK. ALL TREES SCHEDULED FOR REMOVAL SHALL BE FIELD MARKED AND APPROVED FOR REMOVAL BY THE OWNER PRIOR TO CUTTING OPERATIONS.
8. THE CONTRACTOR IS RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THE PUBLIC, EMPLOYEES, AND ALL OTHER PERSONS ASSOCIATED WITH THE PROJECT. HE/SHE SHALL COORDINATE AND BE RESPONSIBLE FOR ALL SAFETY SIGNING, BARRIERS AND TEMPORARY PAVEMENT MARKINGS NECESSARY TO PROVIDE A SMOOTH AND PROPER TRANSITION FOR TRAFFIC FLOW.
9. IF REQUIRED BY THE CONTRACTOR, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTORS EXPENSE.

10. ALL SEWER MAINS AND SERVICES SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY OR 18 INCHES VERTICALLY FROM PROPOSED WATER MAINS AND SERVICES AND SHALL MAINTAIN 5 FEET OF COVER OVER THE TOP OF THE PIPING, UNLESS OTHERWISE SHOWN OR APPROVED. PIPES SHALL BE ENCASED IN CONCRETE WHERE THIS SEPARATION CANNOT BE OBTAINED.
11. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 5 FEET OF COVER OVER THE TOP OF THE PIPE, UNLESS OTHERWISE SHOWN OR APPROVED.
12. WHENEVER SEWER MAINS MUST CROSS WATER MAINS, THE SEWER SHALL BE CONSTRUCTED AS FOLLOWS; A) JOINTS SHALL BE MECHANICAL TYPE WATER PRESSURE RATED WITH ZERO LEAKAGE WHEN TESTED AT 25 PSI FOR GRAVITY SEWERS AND 1.5 TIMES WORKING PRESSURE FOR FORCE MAINS AND JOINTS NOT TO BE LOCATED WITHIN 9 FEET OF THE CROSSING; B) SEWER SERVICES SHOULD BE INSTALLED A MINIMUM OF 18 INCHES BELOW WATER MAINS. IF SEPARATION IS LESS THAN 18 INCHES, SEWER SERVICE SHALL BE CONCRETE ENCASED OR CONSTRUCTED WITH PRESSURE CLASS PVC FOR A DISTANCE OF 10 FEET EACH SIDE OF THE WATER MAIN. 10-FOOT MINIMUM HORIZONTAL SEPARATION DISTANCE SHALL BE MAINTAINED.
13. INDIVIDUAL BUILDING OWNERS ARE RESPONSIBLE FOR MAINTENANCE OF THEIR SEWER SERVICE FROM THE BUILDING TO THE CONNECTION AT THE SEWER MAIN.
14. ALL STREET, WARNING, AND REGULATORY SIGNS SHALL BE IN CONFORMANCE WITH THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND STANDARD SPECIFICATIONS AND LATEST ADDENDA.
15. NO CONSTRUCTION SHALL TAKE PLACE UNTIL THE OWNER/DEVELOPER HAS RECEIVED WRITTEN APPROVAL OF THIS PLAN FROM THE CITY.
16. 14 DAYS PRIOR TO COMMENCING CONSTRUCTION, THE OWNER/DEVELOPER SHALL PRESENT A CONSTRUCTION SCHEDULE TO THE CITY.
17. TWO HARD COPIES OF AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE CITY UPON COMPLETION OF THE PROJECT. ONE SOFT COPY OF THE AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE TOWN WITHIN 30 CALENDAR DAYS OF RECEIVING ANY OCCUPANCY PERMIT FROM THE TOWN. SOFT COPIES SHALL BE PROVIDED ON A CD. AS-BUILTS SHALL INCLUDE ALL LANDSCAPE AND UTILITIES INFORMATION. ANY AND ALL CHANGES FROM THE PREVIOUSLY APPROVED PLANS AND SPECIFICATIONS SHOULD BE HIGHLIGHTED FOR EASE OF REVIEW.
18. COMPETENT SUPERVISION SHALL BE PROVIDED BY THE CONTRACTOR DURING CONSTRUCTION ACTIVITIES.
19. ONSITE BURIAL OF STUMPS OR ANY OTHER DEBRIS IS PROHIBITED.
20. THE PROPERTY DOES NOT LIE WITHIN THE 100-YEAR FLOOD PLAIN ACCORDING TO FEMA AND IT DOES NOT LIE WITHIN A ZONE II WELLHEAD PROTECTION AREA.
21. ALL ELEVATIONS ARE BASED ON N.A.V.D. 1988.

ROADWAY NOTES

- 1.) ALL STUMPS, ROCKS AND LEDGE WITHIN THE LIMITS OF THE PROPOSED PAVED WAY SHALL BE REMOVED. ALL LEDGE SHALL BE REMOVED TO A MINIMUM DEPTH OF 2' BELOW FINISHED PAVEMENT GRADE.
- 2.) ROADWAY SHALL NOT BE CONSTRUCTED DURING FREEZING WEATHER OR ON WET OR FROZEN SUBGRADE.
- 3.) GRADING AND ROLLING SHALL BE REQUIRED TO PROVIDE A SMOOTH, EVEN, AND UNIFORM COMPACTED BASE WHICH IS COMPACTED TO A MINIMUM DRY DENSITY OF 95 PERCENT.
- 4.) THE MINIMUM SLOPE FROM THE CROWN OF FINISHED BASE COURSE SHALL BE 1/4"PER FOOT UNLESS OTHERWISE SHOWN.
- 5.) ALL UNSUITABLE MATERIAL SHALL BE EXCAVATED AND REPLACED WITH SATISFACTORY MATERIAL AND BROUGHT UP TO GRADE WITH GRAVEL BORROW CONTAINING NO STONES GREATER THAN 6" DIAMETER.
- 6.) AT ALL TIMES DURING CONSTRUCTION, THE SUB-GRADE AND ALL DITCHES SHALL BE CONSTRUCTED AND MAINTAINED SO THAT THE ROADWAY WILL EFFECTIVELY BE DRAINED.
- 7.) THE CONTRACTOR SHALL REFER TO THE MERRMAC RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, ARTICLE 5.

SIDEWALK NOTES

SIDEWALKS SHALL BE FIVE FEET IN WIDTH FOR THEIR ENTIRE LENGTH, WITH A 1% CROSS SLOPE (1.5% MAX).

SIDEWALKS SHALL BE CONSTRUCTED WITH A 1.5" TYPE I-1 BITUMINOUS CONCRETE FINISH COURSE, A 1.5" TYPE I-1 BITUMINOUS CONCRETE BINDER COURSE OVER A 12" GRAVEL BASE (MDOT M1.03.0 TYPE C).

WHERE SIDEWALKS TRAVERSE A DRIVEWAY, THE GRAVEL BASE SHALL BE 12" THICK.

SURVEY

120		WETLAND DELINEATION FLAG
	C.B.	CONCRETE BOUND
	S.B.	STONE BOUND
	D.H.	DRILL HOLE
	PK	MASONRY NAIL
	I.P.	IRON PIPE
	I. ROD	IRON ROD
	FND.	FOUND
	N/FND.	NOT FOUND
		ASSESSORS MAP AND PARCEL

MATERIAL NOTES

ALL MATERIALS OF THE ELEMENTS IN THE SITE PLAN MUST CONFORM TO THE FOLLOWING STANDARDS:

SPECIFICATIONS BY THE CITY OF AMESBURY AS SET FORTH IN THE RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES

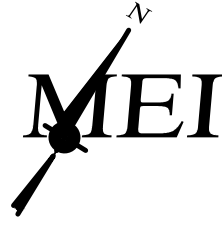
AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

AMERICAN WATER WORKS ASSOCIATION (AWWA)

521 CMR RULES AND REGULATIONS OF THE ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICANS WITH DISABILITIES ACT (ADA)

PREPARED FOR

DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

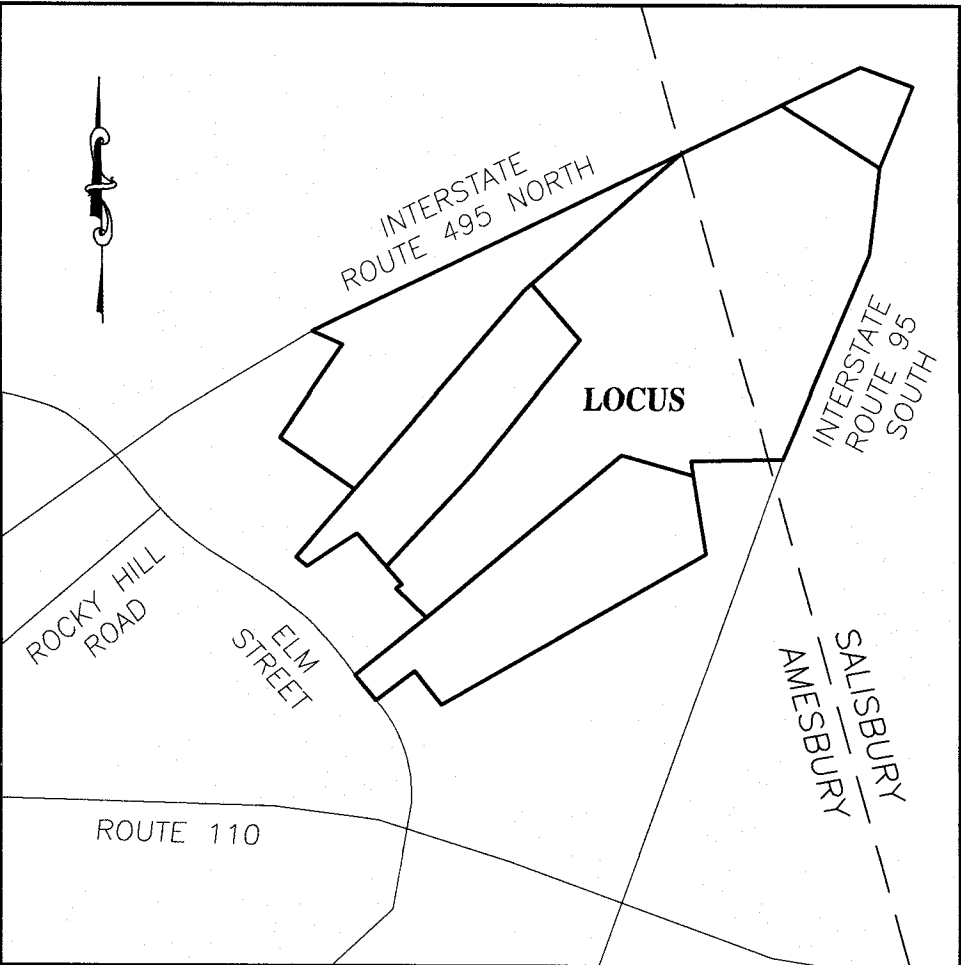


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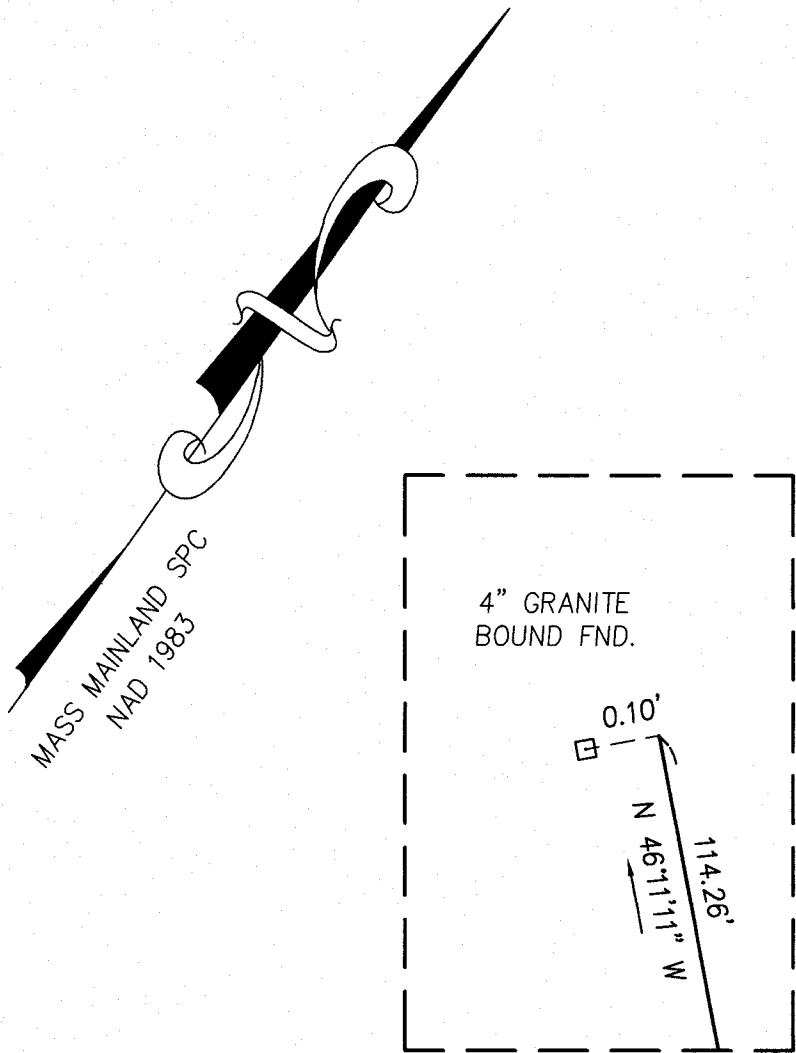
ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

TYPICAL
SECTIONS/
LEGEND/
GENERAL
NOTES
SHEET: C2.0

NO.	DATE	DESCRIPTION	BY	DATE:	CALC. BY:	CHKD. BY:	PROJECT:
				AUG. 11, 2025	J.T.M.	S.B.S.	M244407



LOCUS MAP
N.T.S.



DETAIL A.
(NOT TO SCALE)

DEED REFERENCES

1. SEE DEED FROM ERIC MANDERSON WAYNE AND GERALD R. WAYNE TO TRUE HOMESTEAD LIMITED PARTNERSHIP IV DATED 1/27/1999 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 15596 PAGE 174.
2. SEE DEED FROM VIRGINIA R. MILLIKEN TO TRUE HOMESTEAD LIMITED PARTNERSHIP I DATED 8/6/1999 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 15871 PAGE 553.
3. SEE DEED FROM STANLEY O. BEAN, JR. TO STANLEY O. BEAN JR. AND ALICE M. BEAN TRUSTEES OF THE 287 1/2 ELM STREET REALTY TRUST DATED 10/5/1994 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 12779 PAGE 376.
4. SEE DEED FROM TRUE HOMESTEAD LIMITED PARTNERSHIP II TO TRUE HOMESTEAD LIMITED PARTNERSHIP III DATED 11/20/1993 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 12307 PAGE 510.
5. SEE DEED FROM HERBERT T. SEARS TO TRUE HOMESTEAD LIMITED PARTNERSHIP IV DATED 11/20/1993 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 12307 PAGE 508.
6. SEE DEED FROM STANLEY O. BEAN, JR AND ALICE M. BEAN TO STANLEY O. BEAN, JR AS TRUSTEE OF THE STANLEY O. BEAN, JR. REVOCABLE TRUST DATED 3/25/2005 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 24120 PAGE 288.
7. SEE DEED FROM MARTHA TRUE TO GERTRUDE NANCY SEARS AND ELIZABETH WARDWELL DATED 11/1/1956 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 4325 PAGE 48.
8. SEE DEED FROM SUSAN KEPNER AND PETER RANDALL TO TRUE HOMESTEAD LIMITED PARTNERSHIP III DATED 3/10/2015 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 34400 PAGE 366.
9. SEE DISCONTINUANCE OF STATE HIGHWAY FOR PORTIONS OF ELM STREET BY THE MASSACHUSETTS HIGHWAY COMMISSION ON BEHALF OF THE COMMONWEALTH OF MASSACHUSETTS DATED 2/19/2025 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 42586 PAGE 559.
10. SEE EASEMENT DEED FROM TRUE HOMESTEAD LIMITED PARTNERSHIP II AND TRUE HOMESTEAD LIMITED PARTNERSHIP III TO TRUE HOMESTEAD LIMITED PARTNERSHIP I, TRUE HOMESTEAD LIMITED PARTNERSHIP II AND TRUE HOMESTEAD LIMITED PARTNERSHIP III DATED 10/29/2013 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 32928 PAGE 222.
11. SEE DEED FROM TRUE HOMESTEAD LIMITED PARTNERSHIP I, TRUE HOMESTEAD LIMITED PARTNERSHIP II AND TRUE HOMESTEAD LIMITED PARTNERSHIP III TO BEANPOD PARTNERS, LLC DATED 10/29/2013 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 32928 PAGE 225.

PLAN REFERENCES

1. EASEMENT PLAN OF LAND PREPARED FOR TRUE HOMESTEAD LIMITED PARTNERSHIP. DRAWN BY CAMMETT ENGINEERING. DATED 10/30/2013 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS PLAN BOOK 440 PLAN 26.
2. PLAN OF LAND PREPARED FOR TRUE HOMESTEAD LIMITED PARTNERSHIP. DRAWN BY CAMMETT ENGINEERING. DATED 3/25/2013 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS PLAN BOOK 440 PLAN 27.
3. PLAN OF LAND IN AMESBURY, MA AND SALISBURY, MA PREPARED FOR TRUE HOMESTEAD LIMITED PARTNERSHIP. DRAWN BY W.C. CAMMETT ENGINEERING, INC. DATED 02/24/1993 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS PLAN BOOK 283 PLAN 58.
4. PLAN TITLED "ORCHARD PARK, AMESBURY, MASS" PREPARED FOR WM. J. COUGHLIN, DRAWN BY JOHN T. DESMOND, CIVIL ENGINEER AND SURVEYOR, DATED JULY, 1900 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS PLAN BOOK 1617 PLAN 600.
5. PLAN OF LAND AT #259 ELM STREET IN AMESBURY, MASSACHUSETTS PREPARED FOR SCOTT L. ARSENAULT. DRAWN BY ATLANTIC ENGINEERING & SURVEY CONSULTANTS INC., DATED 6/28/1996 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS PLAN BOOK 309 PLAN 93.
6. PLAN OF ROAD IN THE TOWN OF AMESBURY, ESSEX COUNTY, LAID OUT AS A STATE HIGHWAY BY THE MASSACHUSETTS HIGHWAY COMMISSION, DATED 10/30/1906. L.O. No.1090
7. PLAN OF ROAD IN THE TOWN OF AMESBURY, ESSEX COUNTY, LAID OUT AS A STATE HIGHWAY BY THE MASSACHUSETTS HIGHWAY COMMISSION, DATED 7/19/1907. L.O. No.1135
8. MASSACHUSETTS DEPARTMENT OF TRANSPORTATION PLAN OF ROAD IN THE CITY OF AMESBURY, ESSEX COUNTY ALTERED AND LAID OUT AS A STATE HIGHWAY BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, HIGHWAY DIVISION. DATED 4/10/2019. L.O. No.8622
9. MASSACHUSETTS DEPARTMENT OF TRANSPORTATION PLAN OF ROAD IN THE CITY OF AMESBURY, ESSEX COUNTY ALTERED AND DISCONTINUED AS A STATE HIGHWAY BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, HIGHWAY DIVISION. DATED 2023. L.O. No.8661. *SEE ALSO REF. DEED 9.*

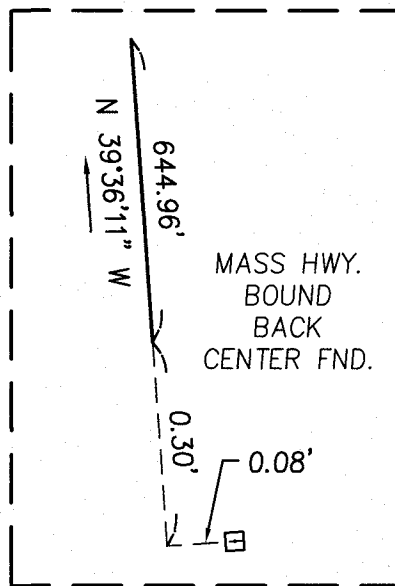
ASSESSOR REFERENCES

CITY OF AMESBURY ASSESSOR
MAP 68 LOTS 12,13,15 & 20
MAP 80 LOTS 3 & 4
TOWN OF SALISBURY ASSESSOR
MAP 10 LOTS 12 & 13

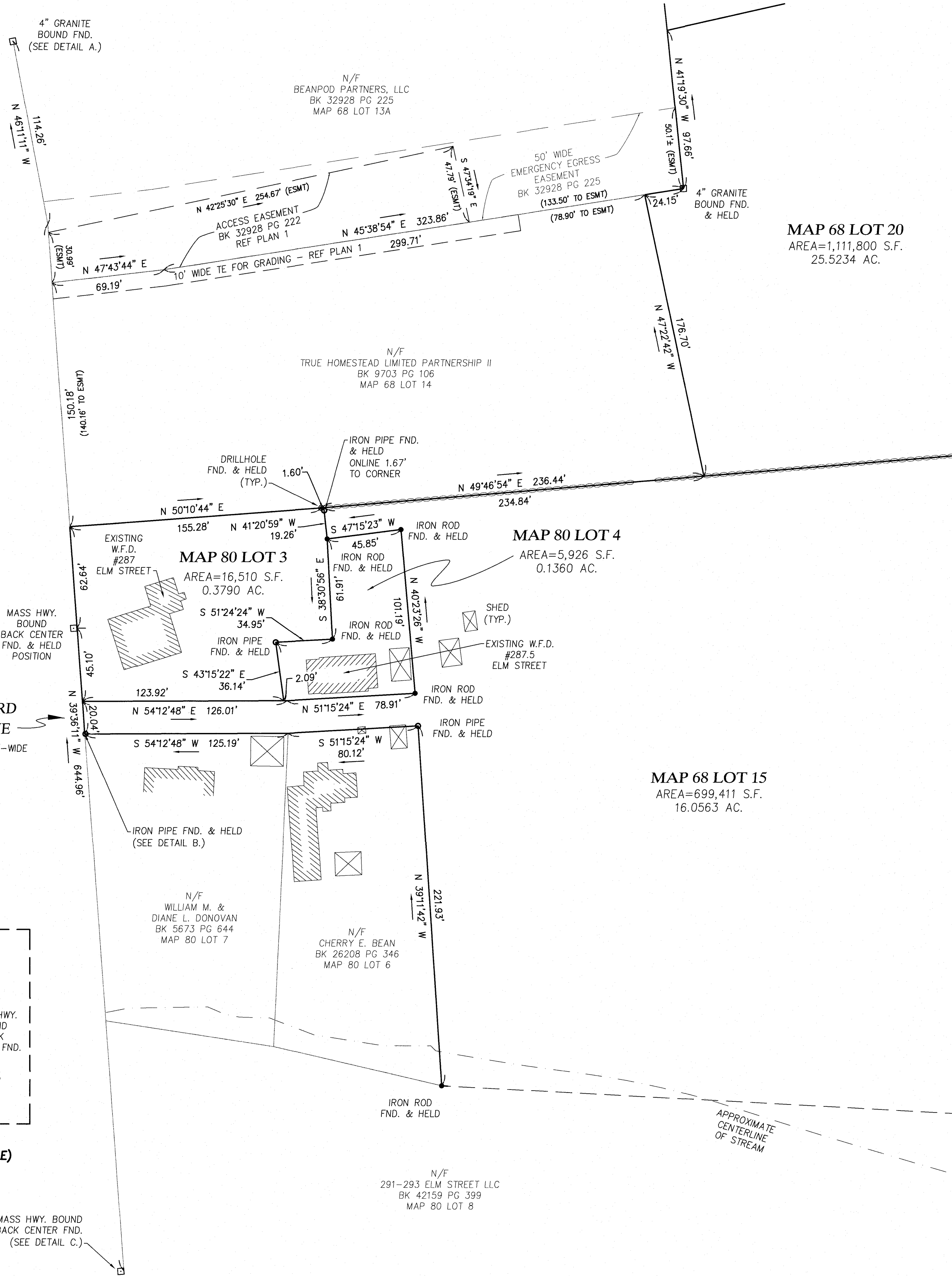
PUBLIC ~ MASS DOT ALTERATION & DISCONTINUANCE 8661
(F.M.L.Y. M.H.O. 1090 & 1135)

ELM STREET

ORCHARD AVENUE
PRIVATE ~ 20'-WIDE



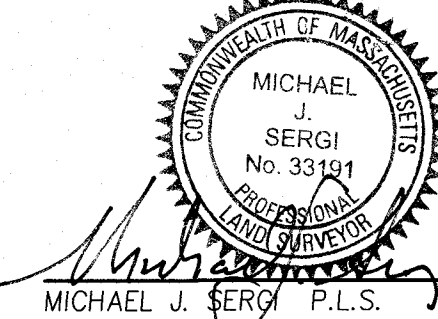
DETAIL C.
(NOT TO SCALE)



NOTES

1. ORIENTATION IS TO MASS MAINLAND SPC NAD 1983 BASED ON MULTIPLE GNSS RTK OBSERVATIONS.
2. STATUS OF RIGHT OF WAYS SHOWN AS PUBLIC OR PRIVATE ARE BASED ON REFERENCED DEEDS AND PLANS. NO WARRANTY IS EXPRESSED OR IMPLIED.
3. THIS SURVEY IS NOT A CERTIFICATION TO OWNERSHIP OR TITLE OF LANDS SHOWN. OWNERSHIP AND ENCUMBRANCES ARE MATTERS OF TITLE EXAMINATION NOT OF A BOUNDARY SURVEY. THE INTENT OF THIS PLAN IS TO ESTABLISH THE BOUNDARY LINES OF DEEDS REFERENCED HEREON. OWNERSHIP OF ADJOINING PROPERTIES IS ACCORDING TO ASSESSOR'S RECORDS. THIS PLAN MAY OR MAY NOT INDICATE ALL ENCUMBRANCES WHETHER EXPRESSED, IMPLIED OR PRESCRIPTIVE.

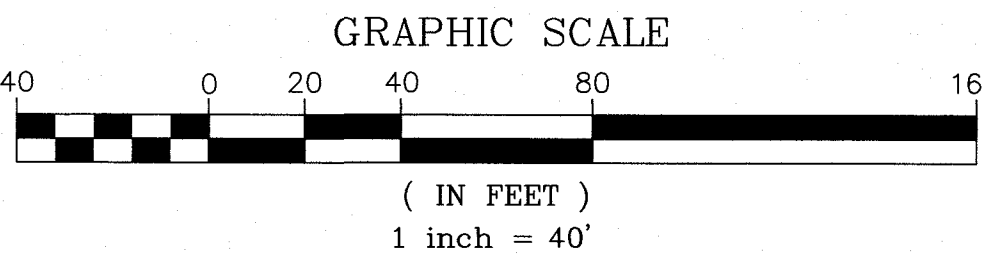
I CERTIFY THAT THE PROPERTY LINES SHOWN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIPS OR FOR NEW WAYS ARE SHOWN.



8/11/2025
DATE

THE CERTIFICATION SHOWN ABOVE IS INTENDED TO MEET REGISTRATION REQUIREMENTS AND IS NOT A CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN. OWNERSHIP OF ADJOINING PROPERTIES ARE ACCORDING TO ASSESSOR'S RECORDS.

CHAPTER 41 SECTION 81X



PREPARED FOR
DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870



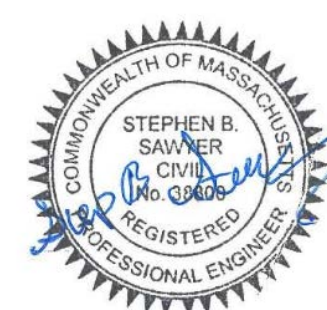
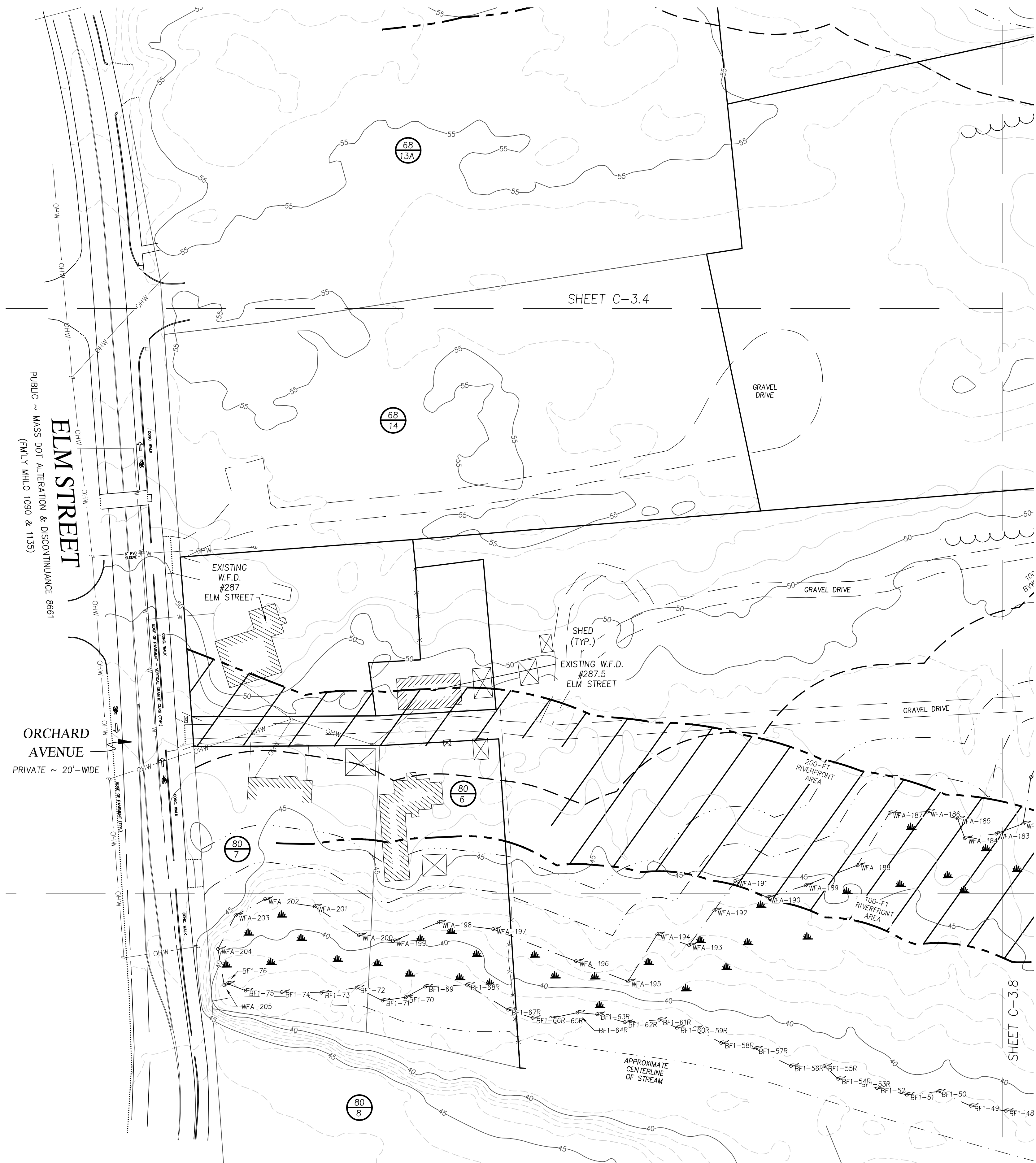
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13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=40'
DATE: AUG. 11, 2025
CALC. BY: A.W.M.
CHKD. BY: M.J.S.
PROJECT: M244407

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
SHOWING
EXISTING CONDITIONS
AT
ELM STREET

BOUNDARY
LINES

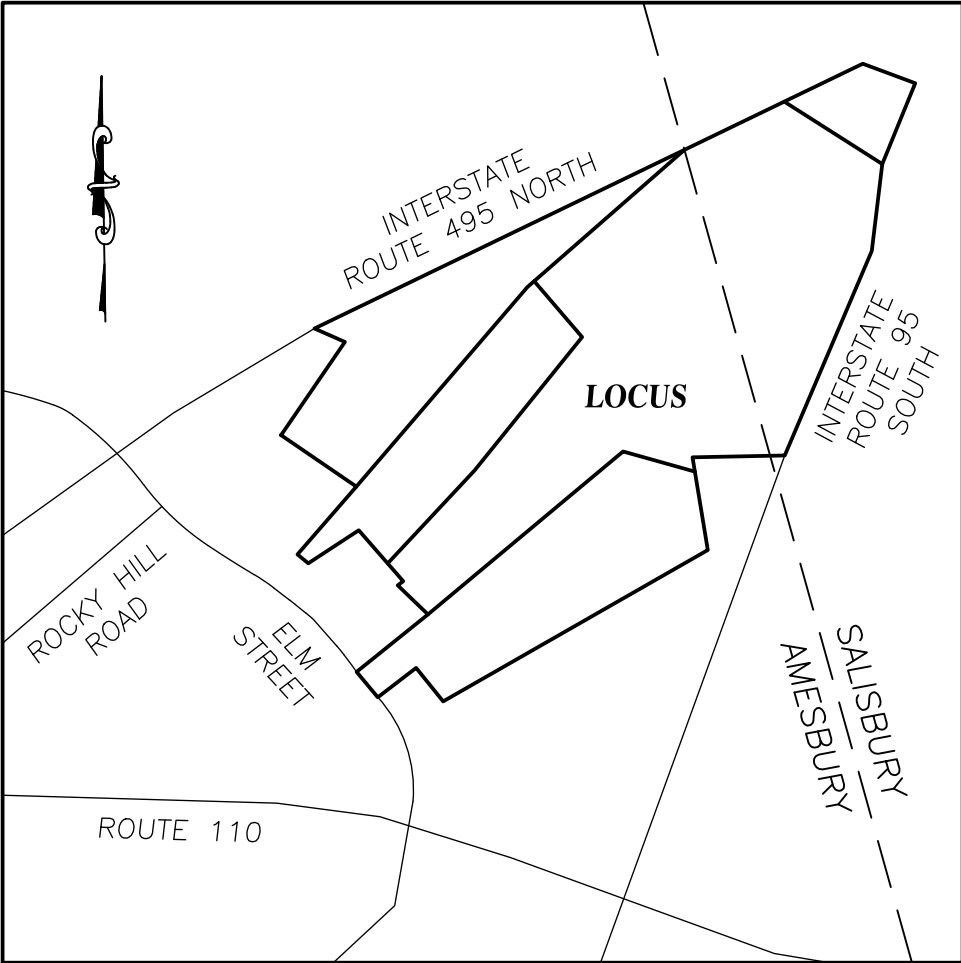
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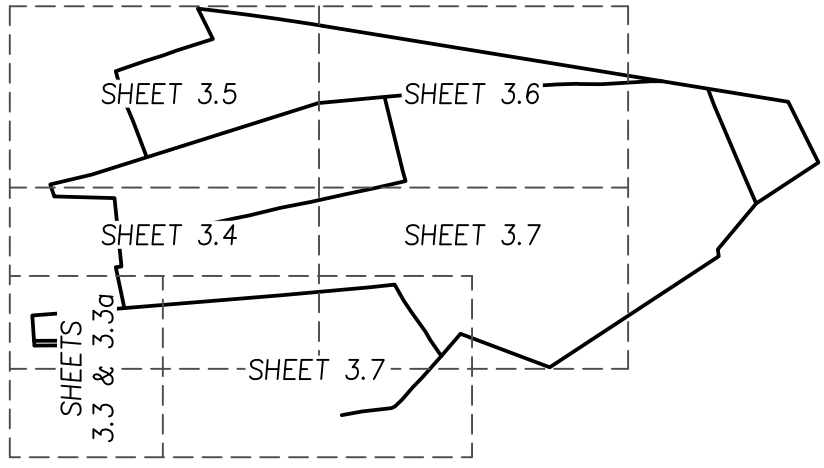
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DATE: AUG. 11, 2025	CHKD. BY: M.J.S.	

EXISTING
CONDITIONS

SHEET: C-3.3



LOCUS MAP
N.T.S.



SHEET KEY

DEED REFERENCES

- SEE DEED FROM ERIC MANDERSON MAYNE AND GERALD R. MAYNE TO TRUE HOMESTEAD LIMITED PARTNERSHIP IV DATED 1/27/1999 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 15596 PAGE 174.
- SEE DEED FROM VIRGINIA R. MILLIKEN TO TRUE HOMESTEAD LIMITED PARTNERSHIP I DATED 8/6/1999 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 15871 PAGE 553.
- SEE DEED FROM STANLEY O. BEAN, JR. TO STANLEY O. BEAN JR. AND ALICE M. BEAN TRUSTEES OF THE 287 1/2 ELM STREET REALTY TRUST DATED 10/5/1994 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 12779 PAGE 376.
- SEE DEED FROM TRUE HOMESTEAD LIMITED PARTNERSHIP II TO TRUE HOMESTEAD LIMITED PARTNERSHIP III DATED 11/20/1993 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 12307 PAGE 510.
- SEE DEED FROM HERBERT T. SEARS TO TRUE HOMESTEAD LIMITED PARTNERSHIP IV DATED 11/20/1993 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 12307 PAGE 508.
- SEE DEED FROM STANLEY O. BEAN, JR AND ALICE M. BEAN TO STANLEY O. BEAN, JR AS TRUSTEE OF THE STANLEY O. BEAN, JR. REVOCABLE TRUST DATED 3/25/2005 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 24120 PAGE 288.
- SEE DEED FROM MARTHA TRUE TO GERTRUDE NANCY SEARS AND ELIZABETH WARDWELL DATED 11/1/1956 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 4325 PAGE 48.
- SEE DEED FROM SUSAN KEPNER AND PETER RANDALL TO TRUE HOMESTEAD LIMITED PARTNERSHIP III DATED 3/10/2015 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 34400 PAGE 366.
- SEE DISCONTINUANCE OF STATE HIGHWAY FOR PORTIONS OF ELM STREET BY THE MASSACHUSETTS HIGHWAY COMMISSION ON BEHALF OF THE COMMONWEALTH OF MASSACHUSETTS DATED 2/19/2025 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 42586 PAGE 559.
- SEE EASEMENT DEED FROM TRUE HOMESTEAD LIMITED PARTNERSHIP II AND TRUE HOMESTEAD LIMITED PARTNERSHIP III TO TRUE HOMESTEAD LIMITED PARTNERSHIP I, TRUE HOMESTEAD LIMITED PARTNERSHIP III AND TRUE HOMESTEAD LIMITED PARTNERSHIP III DATED 10/29/2013 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 32928 PAGE 222.
- SEE DEED FROM TRUE HOMESTEAD LIMITED PARTNERSHIP I, TRUE HOMESTEAD LIMITED PARTNERSHIP II AND TRUE HOMESTEAD LIMITED PARTNERSHIP III TO BEANPOD PARTNERS, LLC DATED 10/29/2013 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS BOOK 32928 PAGE 225.

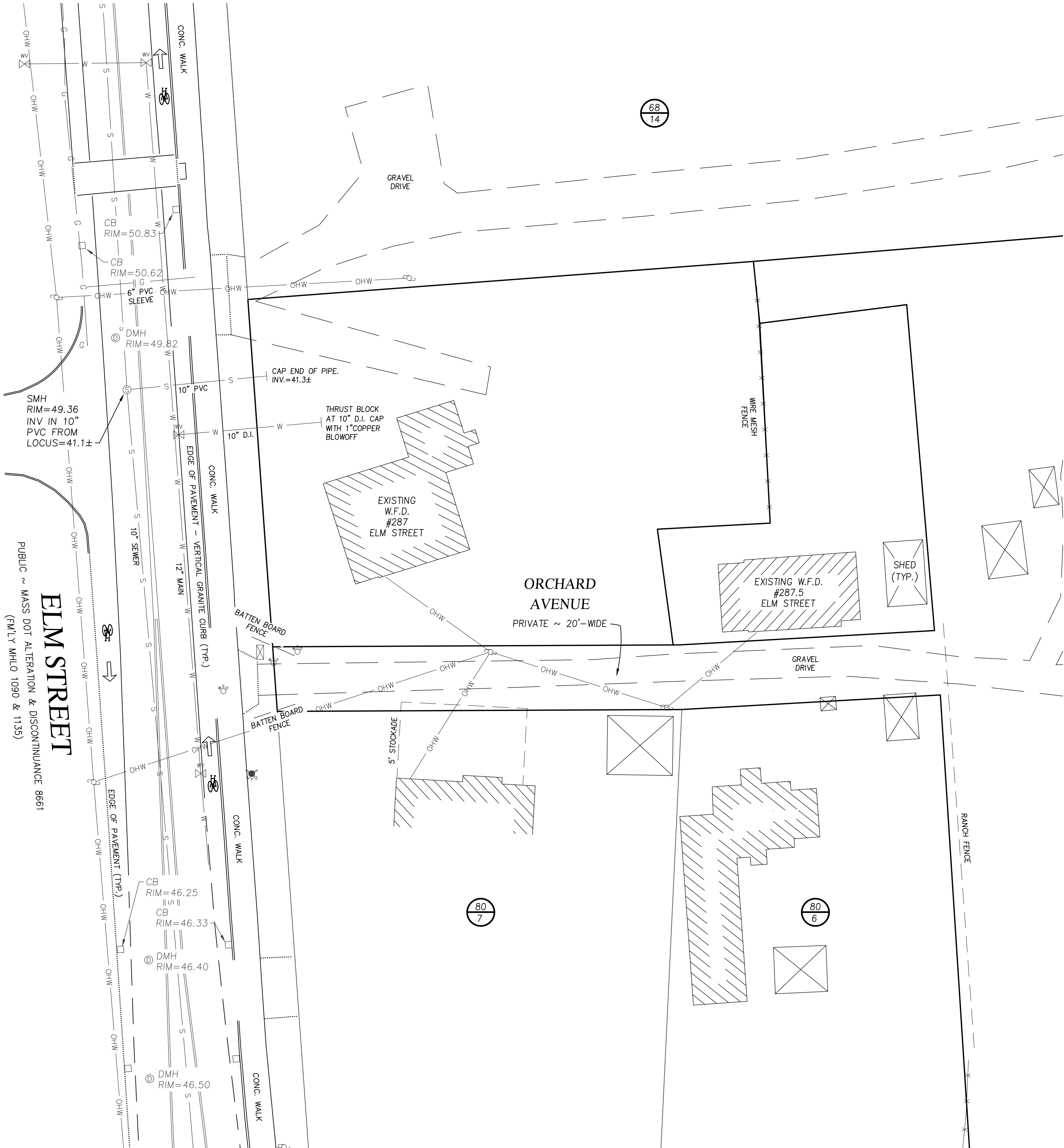
PLAN REFERENCES

- EASEMENT PLAN OF LAND PREPARED FOR TRUE HOMESTEAD LIMITED PARTNERSHIP. DRAWN BY CAMMETT ENGINEERING. DATED 10/30/2013 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS PLAN BOOK 440 PLAN 26.
- PLAN OF LAND PREPARED FOR TRUE HOMESTEAD LIMITED PARTNERSHIP. DRAWN BY CAMMETT ENGINEERING. DATED 3/25/2013 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS PLAN BOOK 440 PLAN 27.
- PLAN OF LAND IN AMESBURY, MA AND SALISBURY, MA PREPARED FOR TRUE HOMESTEAD LIMITED PARTNERSHIP. DRAWN BY W.C. CAMMETT ENGINEERING, INC. DATED 02/24/1993 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS PLAN BOOK 283 PLAN 58.
- PLAN TITLED "ORCHARD PARK. AMESBURY, MASS" PREPARED FOR WM. J. COUGHLIN, DRAWN BY JOHN T. DESMOND, CIVIL ENGINEER AND SURVEYOR, DATED JULY, 1900 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS PLAN BOOK 1617 PLAN 600.
- PLAN OF LAND AT #259 ELM STREET IN AMESBURY, MASSACHUSETTS PREPARED FOR SCOTT L. ARSENAULT. DRAWN BY ATLANTIC ENGINEERING & SURVEY CONSULTANTS INC., DATED 6/28/1996 AND RECORDED AT THE SOUTH ESSEX REGISTRY OF DEEDS PLAN BOOK 309 PLAN 93.
- PLAN OF ROAD IN THE TOWN OF AMESBURY, ESSEX COUNTY, LAID OUT AS A STATE HIGHWAY BY THE MASSACHUSETTS HIGHWAY COMMISSION, DATED 10/30/1906. L.O. No.1090
- PLAN OF ROAD IN THE TOWN OF AMESBURY, ESSEX COUNTY, LAID OUT AS A STATE HIGHWAY BY THE MASSACHUSETTS HIGHWAY COMMISSION, DATED 7/19/1907. L.O. No.1135
- MASSACHUSETTS DEPARTMENT OF TRANSPORTATION PLAN OF ROAD IN THE CITY OF AMESBURY, ESSEX COUNTY ALTERED AND LAID OUT AS A STATE HIGHWAY BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, HIGHWAY DIVISION. DATED 4/10/2019. L.O. No.8622
- MASSACHUSETTS DEPARTMENT OF TRANSPORTATION PLAN OF ROAD IN THE CITY OF AMESBURY, ESSEX COUNTY ALTERED AND DISCONTINUED AS A STATE HIGHWAY BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, HIGHWAY DIVISION. DATED 2023. L.O. No.8661. *SEE ALSO REF. DEED 9.*

ASSESSOR REFERENCES

CITY OF AMESBURY ASSESSOR
MAP 68 LOTS 12,13,15 & 20
MAP 80 LOTS 3 & 4

TOWN OF SALISBURY ASSESSOR
MAP 10 LOTS 12 & 13

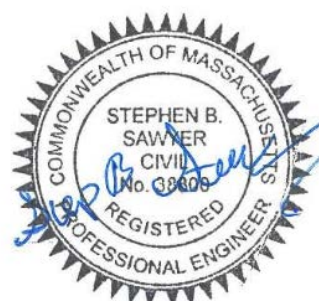
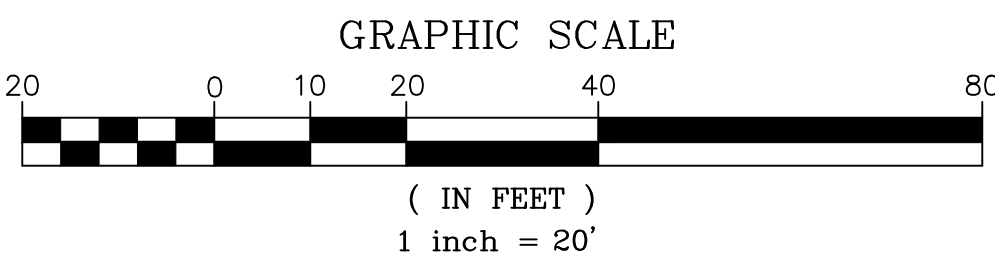


NOTES

- ORIENTATION IS TO MASS MAINLAND SPC NAD 1983 BASED ON MULTIPLE GNSS RTK OBSERVATIONS.
- VERTICAL DATUM IS BASED ON NAVD1988.
- STATUS OF RIGHT OF WAYS SHOWN AS PUBLIC OR PRIVATE ARE BASED ON REFERENCED DEEDS AND PLANS. NO WARRANTY IS EXPRESSED OR IMPLIED.
- THIS SURVEY IS NOT A CERTIFICATION TO OWNERSHIP OR TITLE OF LANDS SHOWN. OWNERSHIP AND ENCUMBRANCES ARE MATTERS OF TITLE EXAMINATION NOT OF A BOUNDARY SURVEY. THE INTENT OF THIS PLAN IS TO ESTABLISH THE BOUNDARY LINES OF DEEDS REFERENCED HEREON. OWNERSHIP OF ADJOINING PROPERTIES IS ACCORDING TO ASSESSOR'S RECORDS. THIS PLAN MAY OR MAY NOT INDICATE ALL ENCUMBRANCES WHETHER EXPRESSED, IMPLIED OR PRESCRIPTIVE.
- DELINEATED WETLAND LINES, WATER FEATURES AND TOPOGRAPHY EXTENDING BEYOND THE RIGHT OF WAY OF ELM STREET SHOWN HEREON HAS BEEN PROVIDED TO M.E.I. BY GM2 ASSOCIATES, INC.
- UTILITY INFORMATION SHOWN HEREON IS BASED ON VISIBLE SURFACE STRUCTURES AND INFORMATION PROVIDED TO M.E.I. BY GM2 ASSOCIATES, INC.

LEGEND

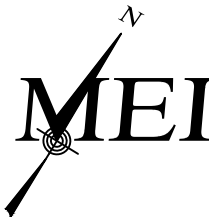
- | | |
|----------------|------------------|
| UPOLE | UTILITY POLE |
| D | DRAINAGE |
| W | WATER |
| S | SEWER |
| G | GAS |
| OHW | OVERHEAD WIRE |
| CB | CATCH BASIN |
| DMH | DRAIN MANHOLE |
| SMH | SEWER MANHOLE |
| EMH | ELECTRIC MANHOLE |
| WSHUT | WATER SHUT OFF |
| WVALVE | WATER VALVE |
| ASSESSORS MAP# | |
| PARCEL# | |



PREPARED FOR

DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO. DATE DESCRIPTION BY



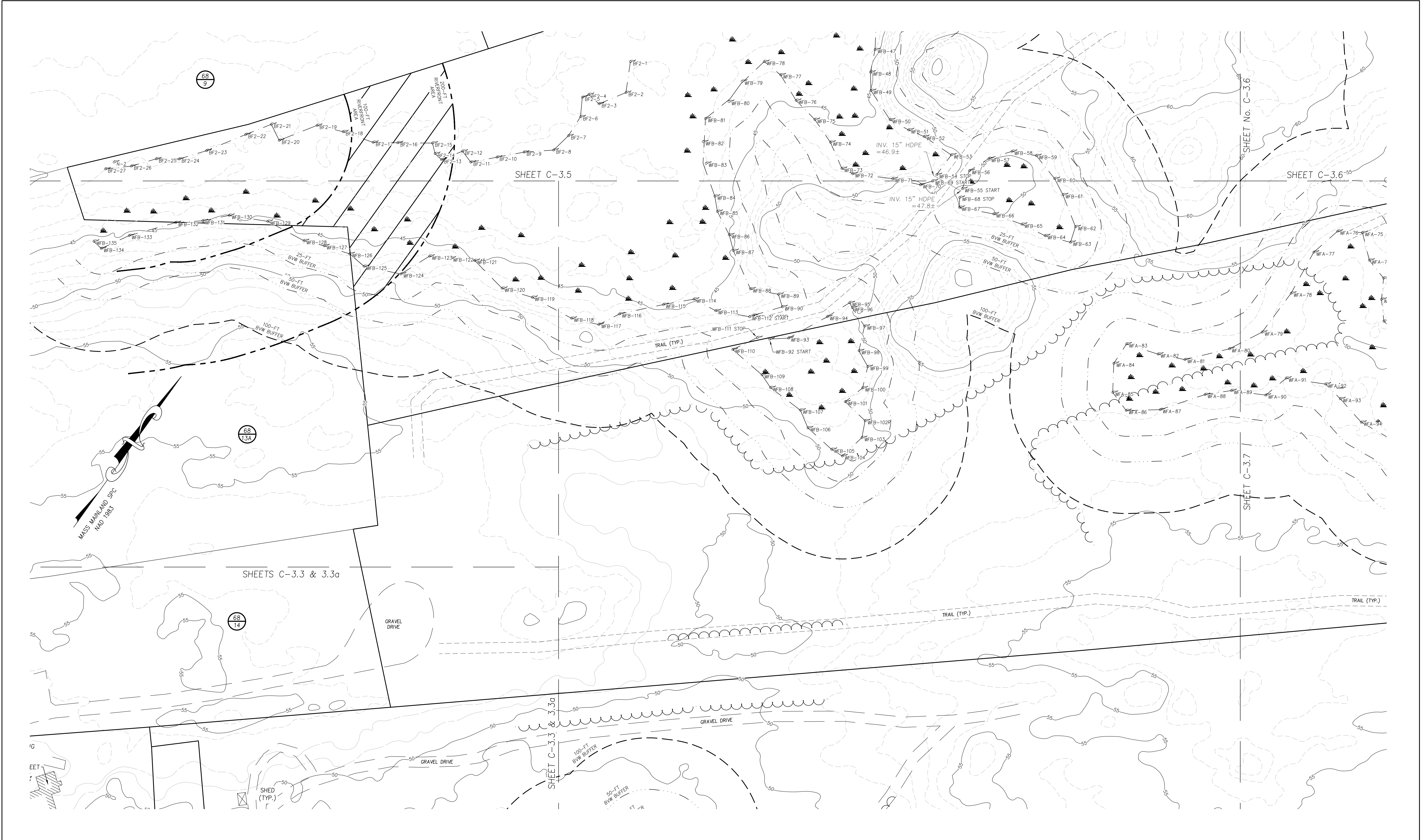
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

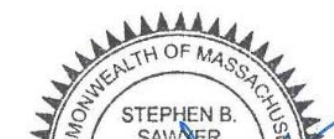
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CALC. BY: A.W.M.
CHKD. BY: M.J.S.
PROJECT: M244407

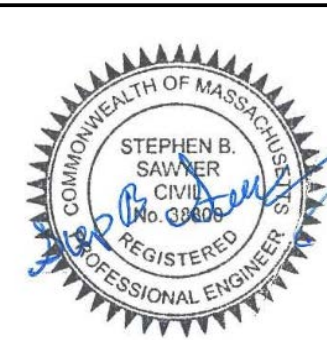
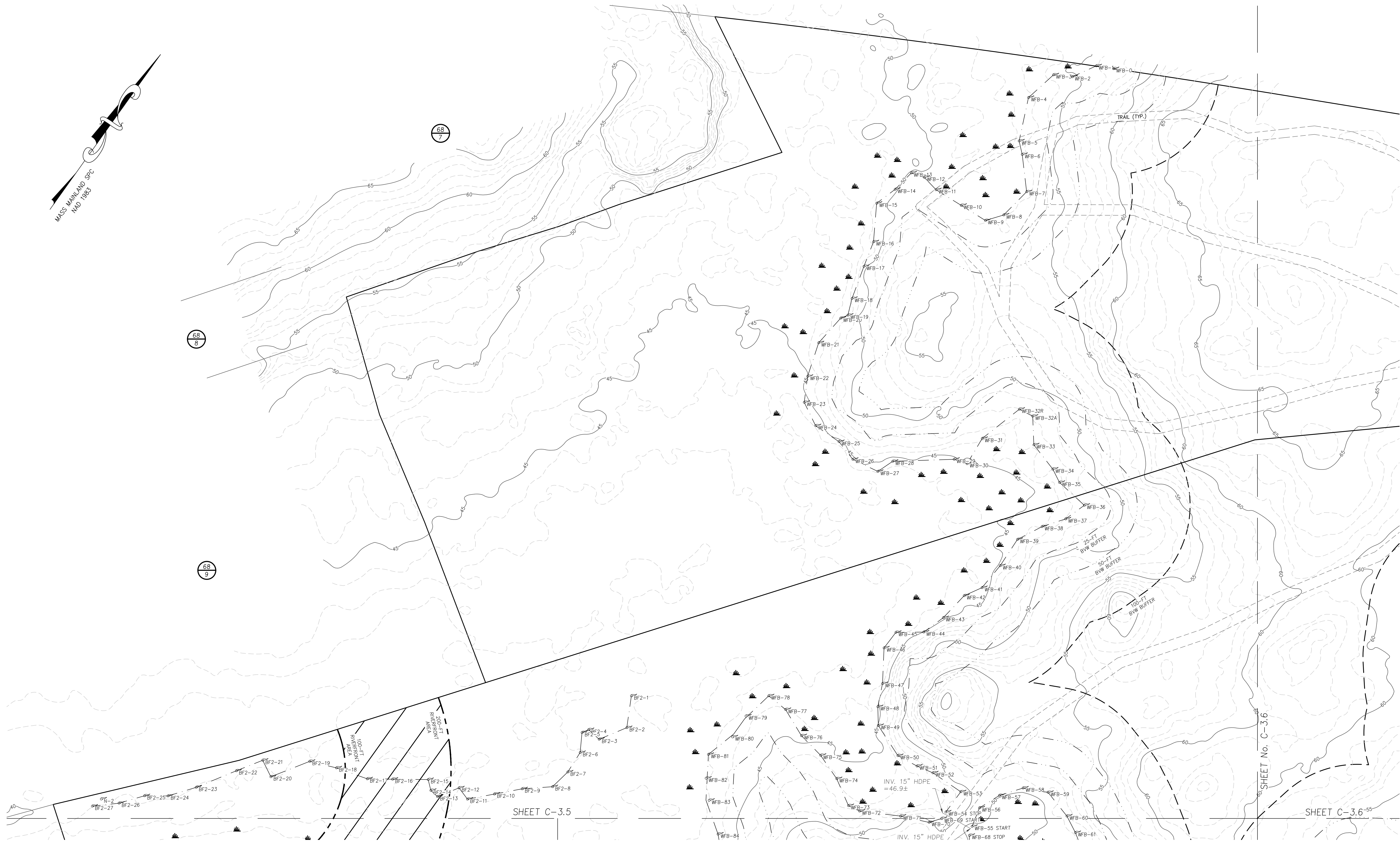
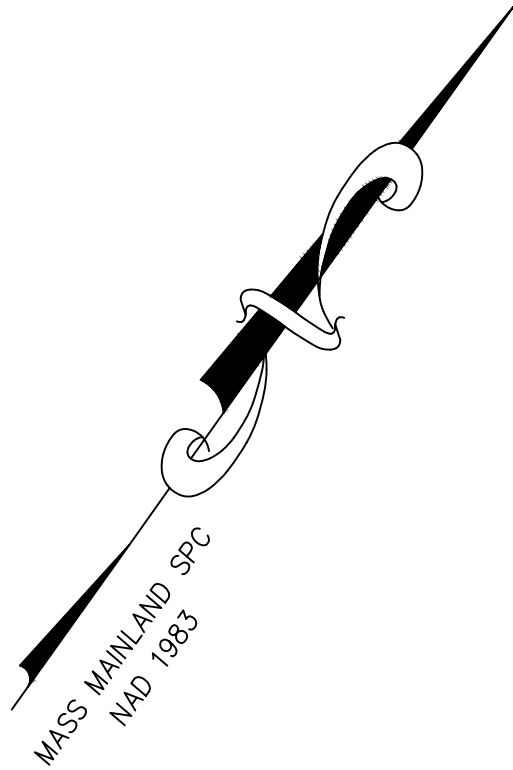
ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
SHOWING
EXISTING CONDITIONS
AT
ELM STREET

EXISTING
CONDITIONS

SHEET: C-3.3a

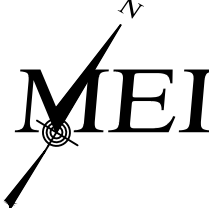


			PREPARED FOR						 MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528	ROCKY HILL MBTA COMMUNITY IN AMESBURY, MA		EXISTING CONDITIONS
			DALE DEVELOPMENT, LLC 360 WASHINGTON STREET RYE, NH 03870							SHOWING EXISTING CONDITIONS AT ELM STREET		
										PROJECT: M244407		
			NO.	DATE	DESCRIPTION	BY	SCALE: 1"=40'		CALC. BY: A.W.M.			
							DATE: AUG. 11, 2025		CHKD. BY: M.J.S.			



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DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE		DESCRIPTION	BY	

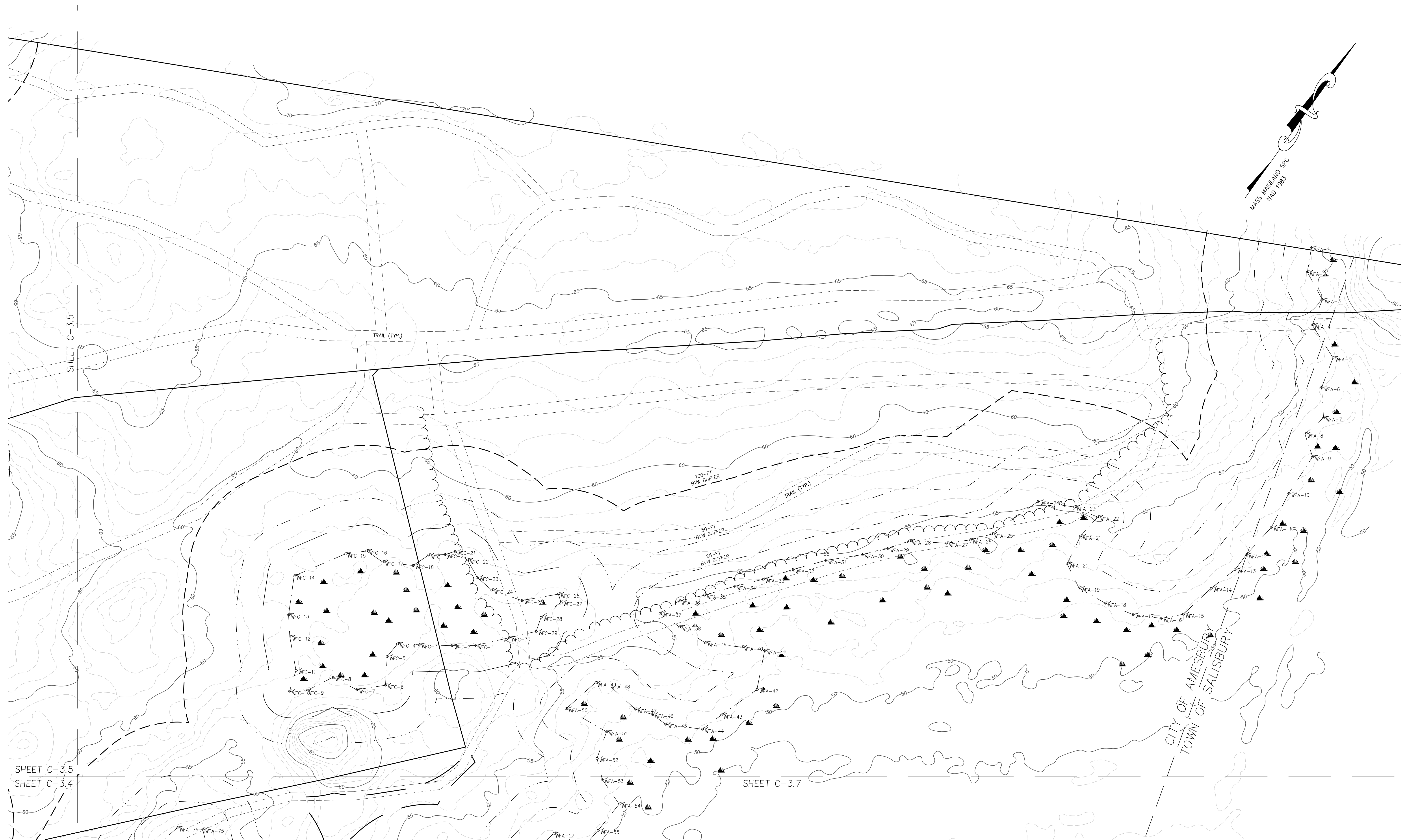


MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=40'	CALC. BY: A.W.M.	PROJECT: M244407
DATE: AUG. 11, 2025	CHKD. BY: M.J.S.	

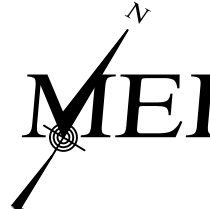
ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
SHOWING
EXISTING CONDITIONS
AT
ELM STREET

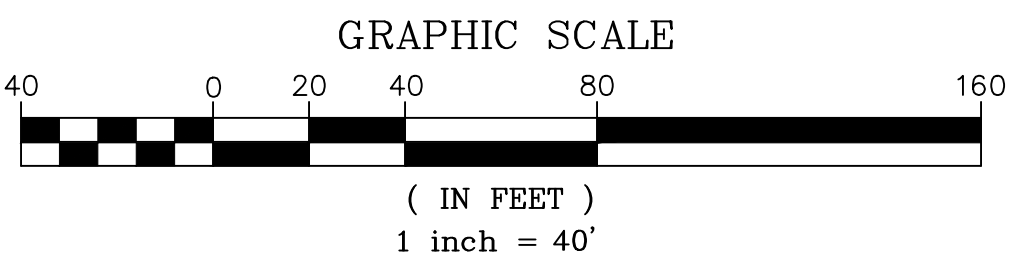
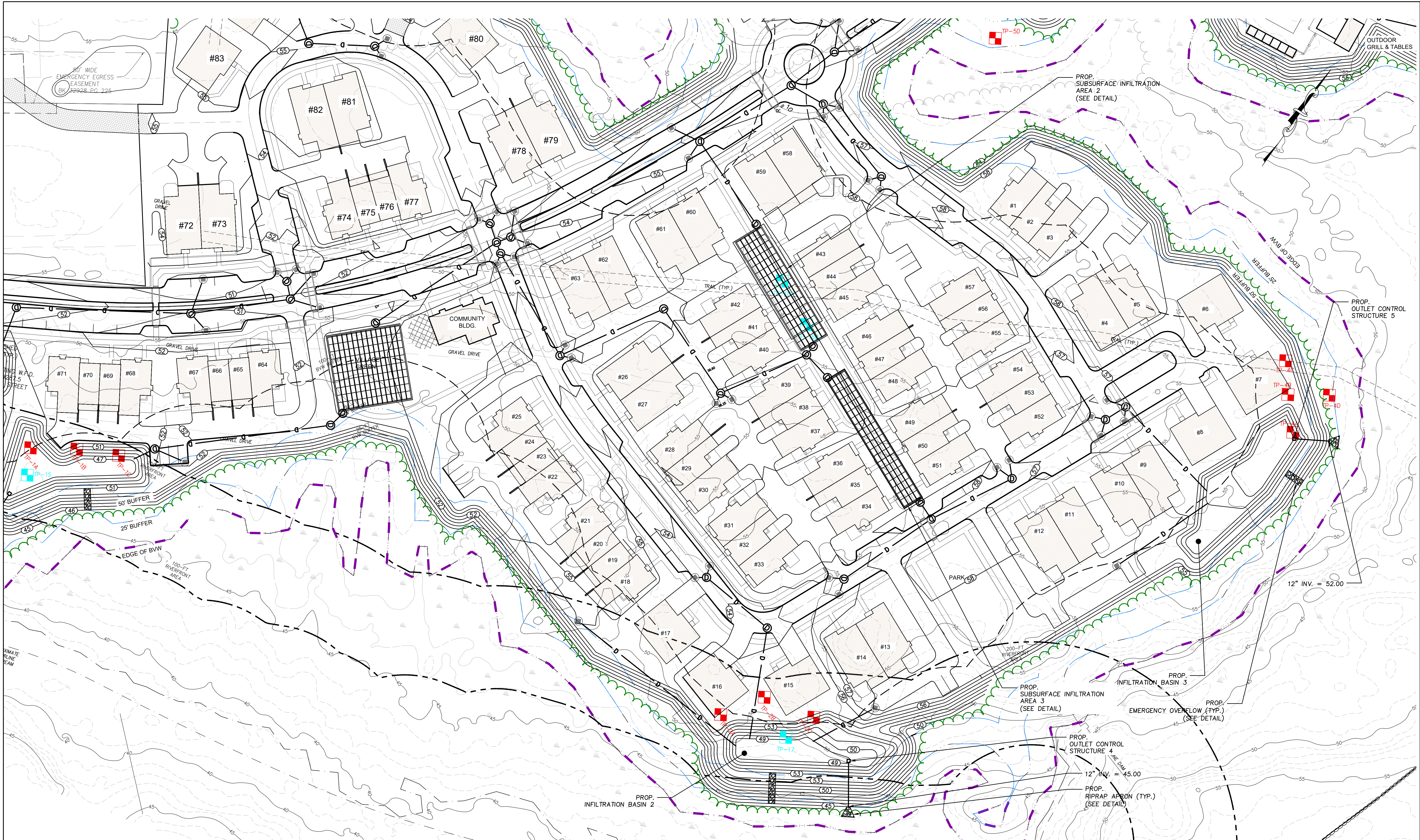
EXISTING CONDITIONS
SHEET: C-3.5



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			DALE DEVELOPMENT, LLC 360 WASHINGTON STREET RYE, NH 03870										



			PREPARED FOR								 MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528	ROCKY HILL MBTA COMMUNITY IN AMESBURY, MA		EXISTING CONDITIONS
			DALE DEVELOPMENT, LLC 360 WASHINGTON STREET RYE, NH 03870									SHOWING EXISTING CONDITIONS AT ELM STREET		
			NO.	DATE	DESCRIPTION	BY	SCALE: 1"=40'		CALC. BY: A.W.M.		PROJECT: M244407			
							DATE: AUG. 11, 2025		CHKD. BY: M.J.S.					



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DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

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62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

05/22/25
05/30/25

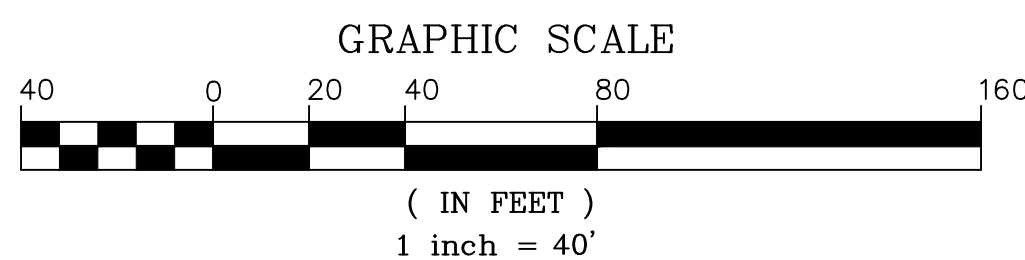
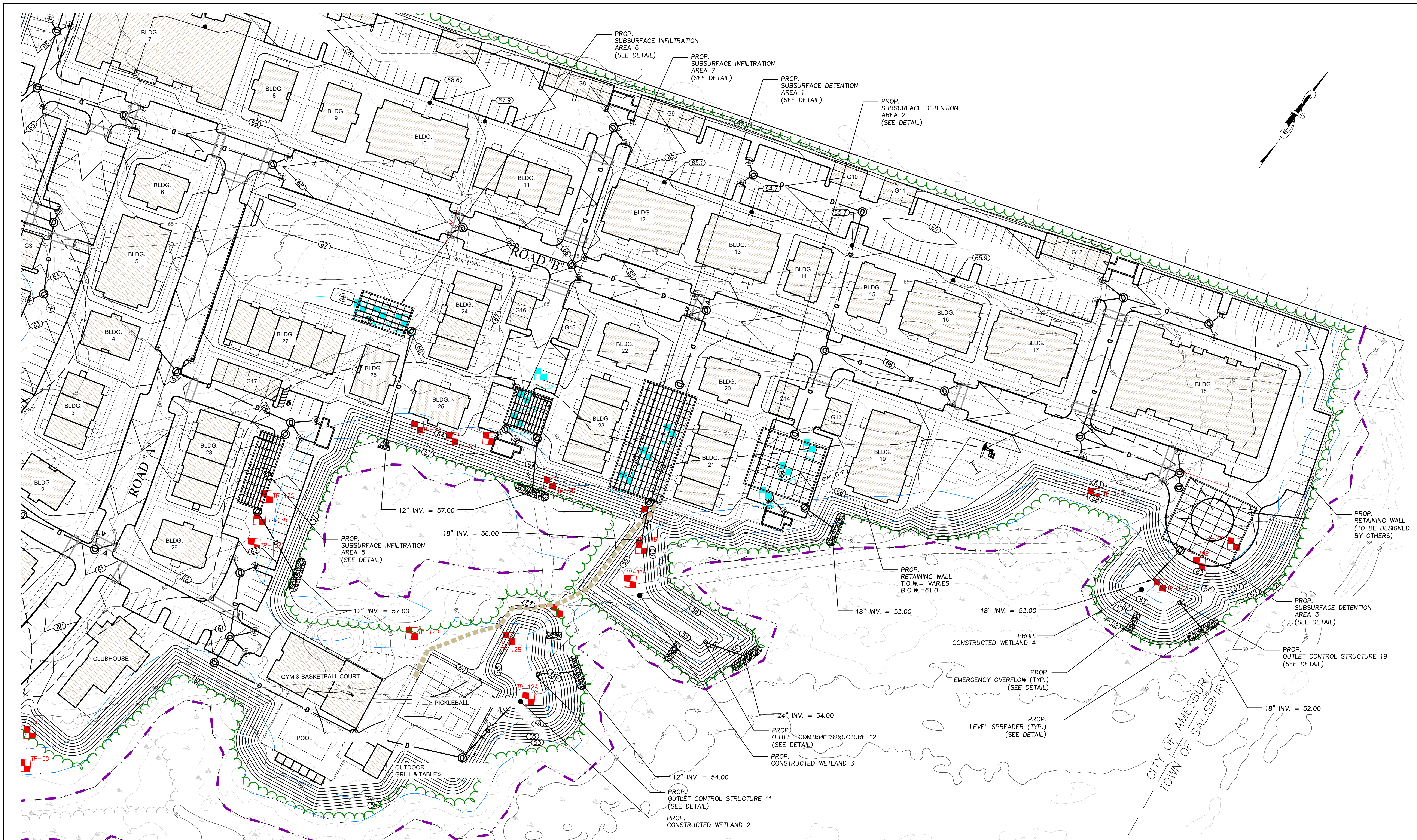
DATE: AUG. 11, 2025
CHKD. BY: S.B.S.

PROJECT: M244407

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

**GRADING
&
DRAINAGE**

SHEET: C-6.1

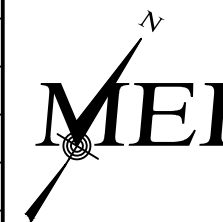


PREPARED FOR

DALE DEVELOPMENT, LLC

360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY



MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=40'
DATE: AUG. 11, 2025
CALC. BY: J.T.M.
CHKD. BY: S.B.S.
PROJECT: M244407

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

**GRADING
&
DRAINAGE**

SHEET: C-6.3

CATCH BASIN SCHEDULE	
STRUCTURE	DETAILS
CB 1	RIM = 49.42 INV. OUT (12") = 47.00 (DMH 1 W. CDS)
CB 2	RIM = 49.43 INV. OUT (12") = 47.00 (DMH 1 W. CDS)
CB 3	RIM = 50.13 INV. OUT (12") = 47.60 (DMH 3)
CB 4	RIM = 50.15 INV. OUT (12") = 47.60 (DMH 3)
CB 5 W. CDS	RIM = 51.80 INV. OUT (12") = 48.00 (DMH 4)
CB 6	RIM = 51.05 INV. OUT (12") = 48.47 (DMH 5)
CB 7	RIM = 51.00 INV. OUT (12") = 48.47 (DMH 5)
CB 8	RIM = 51.44 INV. OUT (12") = 48.30 (DMH 6)
CB 9	RIM = 51.41 INV. OUT (12") = 48.30 (DMH 6)
CB 10	RIM = 53.52 INV. OUT (12") = 50.50 (DMH 7)
CB 11	RIM = 53.52 INV. OUT (12") = 50.50 (DMH 7)
CB 12	RIM = 53.49 INV. OUT (12") = 50.50 (DMH 8)
CB 13	RIM = 53.49 INV. OUT (12") = 50.50 (DMH 8)
CB 14	RIM = 53.52 INV. OUT (12") = 50.45 (DMH 9)
CB 15	RIM = 53.49 INV. OUT (12") = 50.45 (DMH 9)
CB 16	RIM = 54.90 INV. OUT (12") = 51.90 (DMH 11)
CB 17	RIM = 54.90 INV. OUT (12") = 51.90 (DMH 11)
CB 18	RIM = 66.05 INV. OUT (12") = 53.25 (DMH 13)
CB 19	RIM = 66.05 INV. OUT (12") = 53.25 (DMH 13)
CB 20	RIM = 54.19 INV. OUT (12") = 51.13 (DMH 15)
CB 21	RIM = 54.64 INV. OUT (12") = 51.13 (DMH 15)
CB 22	RIM = 55.26 INV. OUT (12") = 52.30 (DMH 17)
CB 23	RIM = 55.26 INV. OUT (12") = 52.30 (DMH 17)
CB 24	RIM = 55.15 INV. OUT (12") = 53.60 (DMH 20)
CB 25	RIM = 55.15 INV. OUT (12") = 53.60 (DMH 20)
CB 26	RIM = 57.20 INV. OUT (12") = 54.60 (DMH 21)
CB 27	RIM = 57.20 INV. OUT (12") = 54.60 (DMH 21)
CB 28	RIM = 57.20 INV. OUT (12") = 53.12 (DMH 22)
CB 29	RIM = 57.20 INV. OUT (12") = 54.20 (DMH 22)
CB 30	RIM = 58.87 INV. OUT (12") = 55.90 (DMH 23)
CB 31	RIM = 58.88 INV. OUT (12") = 55.90 (DMH 23)
CB 32	RIM = 56.35 INV. OUT (12") = 53.71 (DMH 24)

CATCH BASIN SCHEDULE	
STRUCTURE	DETAILS
CB 33	RIM = 56.60 INV. OUT (12") = 53.71 (DMH 24)
CB 34	RIM = 55.74 INV. OUT (12") = 53.86 (DMH 25)
CB 35	RIM = 55.74 INV. OUT (12") = 53.86 (DMH 25)
CB 36	RIM = 56.33 INV. OUT (12") = 54.45 (DMH 26)
CB 37	RIM = 56.33 INV. OUT (12") = 54.45 (DMH 26)
CB 38	RIM = 56.54 INV. OUT (12") = 53.50 (DMH 28)
CB 39	RIM = 56.06 INV. OUT (12") = 53.50 (DMH 28)
CB 40	RIM = 53.55 INV. OUT (12") = 50.53 (DMH 30)
CB 41	RIM = 53.55 INV. OUT (12") = 50.53 (DMH 30)
CB 42	RIM = 54.50 INV. OUT (12") = 50.50 ()
CB 43	RIM = 57.20 INV. OUT (12") = 52.00 ()
CB 44	RIM = 57.10 INV. OUT (12") = 53.50 ()
CB 45	RIM = 61.41 INV. OUT (12") = 57.59 (DMH 31)
CB 46	RIM = 61.40 INV. OUT (12") = 57.59 (DMH 31)
CB 47	RIM = 58.30 INV. OUT (12") = 54.80 (DMH 33 W. CDS)
CB 48	RIM = 58.30 INV. OUT (12") = -0.50 (DMH 33 W. CDS)
CB 49	RIM = 60.38 INV. OUT (12") = 58.50 (DMH 35)
CB 50	RIM = 61.55 INV. OUT (12") = 56.50 (DMH 35)
CB 51	RIM = 63.30 INV. OUT (12") = 60.30 (DMH 36)
CB 52	RIM = 63.30 INV. OUT (12") = 60.30 (DMH 36)
CB 53	RIM = 65.05 INV. OUT (12") = 60.76 (DMH 37)
CB 54	RIM = 64.10 INV. OUT (12") = 60.20 (DMH 38)
CB 55	RIM = 62.11 INV. OUT (12") = 60.23 (DMH 40)
CB 56	RIM = 64.80 INV. OUT (12") = 61.20 (DMH 41)
CB 57	RIM = 64.80 INV. OUT (12") = -0.50 (DMH 41)
CB 58	RIM = 66.10 INV. OUT (12") = 62.10 (DMH 43)
CB 59	RIM = 66.10 INV. OUT (12") = 62.10 (DMH 43)
CB 60	RIM = 66.32 INV. OUT (12") = 62.30 (DMH 44)
CB 61	RIM = 66.31 INV. OUT (12") = 62.30 (DMH 44)
CB 62	RIM = 67.82 INV. OUT (12") = 63.88 (DMH 45)
CB 63	RIM = 67.82 INV. OUT (12") = 63.88 (DMH 45)
CB 64	RIM = 64.13 INV. OUT (12") = 61.10 (DMH 46)

CATCH BASIN SCHEDULE	
STRUCTURE	DETAILS
CB 65	RIM = 64.13 INV. OUT (12") = 61.10 (DMH 46)
CB 66	RIM = 63.50 INV. OUT (12") = 60.50 (DMH 47)
CB 67	RIM = 63.60 INV. OUT (12") = 60.60 (DMH 47)
CB 68	RIM = 61.80 INV. OUT (12") = 58.90 (DMH 49)
CB 69	RIM = 61.80 INV. OUT (12") = 58.90 (DMH 49)
CB 70	RIM = 60.70 INV. OUT (12") = 58.20 (DMH 50)
CB 71	RIM = 60.70 INV. OUT (12") = 58.20 (DMH 50)
CB 72	RIM = 63.38 INV. OUT (12") = 61.50 (DMH 54 W. CDS)
CB 73	RIM = 63.38 INV. OUT (12") = 61.50 (DMH 54 W. CDS)
CB 74	RIM = 67.71 INV. OUT (12") = 64.50 (DMH 55)
CB 75	RIM = 67.71 INV. OUT (12") = 64.50 (DMH 55)
CB 76	RIM = 65.69 INV. OUT (12") = 62.65 (DMH 56)
CB 77	RIM = 65.69 INV. IN. (12") = 62.65 (DMH 56)
CB 78	RIM = 64.43 INV. OUT (12") = 61.40 (DMH 57)
CB 79	RIM = 64.42 INV. OUT (12") = 61.40 (DMH 57)
CB 80	RIM = 64.87 INV. OUT (12") = 62.99 (DMH 59)
CB 81	RIM = 64.87 INV. OUT (12") = 62.99 (DMH 59)
CB 82	RIM = 64.51 INV. OUT (12") = 61.00 (DMH 60)
CB 83	RIM = 64.51 INV. OUT (12") = 61.00 (DMH 60)
CB 84	RIM = 65.37 INV. OUT (12") = 62.00 (DMH 63)
CB 85	RIM = 65.37 INV. OUT (12") = 62.00 (DMH 63)
CB 86	RIM = 64.50 INV. OUT (12") = 58.00 (DMH 65 W. CDS)
CB 87	RIM = 63.38 INV. OUT (12") = 58.00 (DMH 65 W. CDS)
CB 88	RIM = 63.83 INV. OUT (12") = 60.00 (DMH 66)
CB 89	RIM = 63.96 INV. OUT (12") = 60.00 (DMH 66)
CB 90	RIM = 63.17 INV. OUT (12") = 59.23 (DMH 67)
CB 91	RIM = 63.08 INV. OUT (12") = 59.23 (DMH 67)
CB 92	RIM = 64.20 INV. OUT (12") = 61.40 (DMH 69)
CB 93	RIM = 64.20 INV. OUT (12") = 61.40 (DMH 69)
CB 94	RIM = 63.10 INV. OUT (12") = 60.00 (DMH 70)
CB 95	RIM = 63.10 INV. OUT (12") = 60.00 (DMH 70)

DRAIN MANHOLE SCHEDULE	
STRUCTURE	DETAILS
DMH 1 W. CDS	RIM = 50.28 INV. IN. (12") = 46.85 (CB 2) INV. IN. (12") = 46.85 (CB 1) INV. OUT (12") = 46.75 ()
DMH 2 W. CDS	RIM = 52.59 INV. IN. (18") = 46.35 (DMH 3) INV. OUT (18") = 46.25 ()
DMH 3	RIM = 51.85 INV. IN. (12") = 47.45 (CB 4) INV. IN. (12") = 47.45 (CB 3) INV. IN. (18") = 47.45 (DMH 6) INV. OUT (12") = 47.35 (DMH 2 W. CDS)
DMH 4	RIM = 52.10 INV. IN. (12") = 47.85 (DMH 4A) INV. IN. (12") = 47.85 (CB 5 W. CDS) INV. OUT (12") = 47.75 ()
DMH 4A	RIM = 53.28 INV. IN. (12") = 49.40 (OCS 3) INV. OUT (12") = 49.35 (DMH 4)
DMH 5	RIM = 51.30 INV. IN. (12") = 48.37 (CB 6) INV. IN. (12") = 48.37 (CB 7) INV. OUT (12") = 48.27 (DMH 6)
DMH 6	RIM = 51.85 INV. IN. (12") = 48.17 (CB 9) INV. IN. (12") = 48.17 (CB 8) INV. IN. (12") = 48.17 (DMH 5) INV. OUT (18") = 48.07 (DMH 3)
DMH 7	RIM = 53.33 INV. IN. (12") = 50.40 (CB 10) INV. IN. (12") = 50.40 (CB 11) INV. OUT (12") = 50.30 (DMH 10)
DMH 8	RIM = 53.28 INV. IN. (12") = 50.40 (CB 13) INV. IN. (12") = 50.40 (CB 12) INV. IN. (18") = 50.40 (DMH 11) INV. OUT (18") = 50.30 (DMH 10)
DMH 9	RIM = 53.90 INV. IN. (12") = 50.35 (CB 15) INV. IN. (12") = 50.35 (CB 14) INV. OUT (12") = 50.25 (DMH 10)
DMH 10	RIM = 53.51 INV. IN. (18") = 50.20 (DMH 8) INV. IN. (12") = 50.20 (DMH 7) INV. IN. (12") = 50.15 (DMH 9) INV. OUT (18") = 50.05 (DMH 10A W. CDS)
DMH 10A W. CDS	RIM = 53.17 INV. IN. (18") = 49.00 (DMH 10)
DMH 11	RIM = 55.68 INV. IN. (12") = 51.06 (DMH 12) INV. IN. (12") = 51.80 (CB 17) INV. IN. (12") = 51.80 (CB 16) INV. OUT (18") = 50.96 (DMH 8)
DMH 12	RIM = 56.47 INV. IN. (12") = 51.70 (DMH 13) INV. OUT (12") = 51.60 (DMH 11)
DMH 13	RIM = 66.35 INV. IN. (12") = 53.15 (CB 19) INV. IN. (12") = 53.15 (CB 18) INV. IN. (12") = 52.16 (DMH 14) INV. OUT (12") = 52.16 (DMH 12)
DMH 14	RIM = 57.53 INV. IN. (18") = 52.65 (OCS 6) INV. IN. (12") = 53.65 (OCS 7) INV. OUT (12") = 52.65 (DMH 13)
DMH 15	RIM = 54.31 INV. IN. (12") = 51.03 (CB 20) INV. IN. (12") = 51.03 (CB 21) INV. OUT (12") = 50.93 (DMH 16)
DMH 16	RIM = 54.81 INV. IN. (12") = 50.63 (DMH 15) INV. OUT (12") = 50.53 ()
DMH 17	RIM = 55.80 INV. IN. (12") = 52.20 (CB 23) INV. IN. (12") = 52.15 (CB 22) INV. IN. (18") = 52.15 (DMH 19) INV. OUT (18") = 52.05 (DMH 18 W. CDS)
DMH 18 W. CDS	RIM = 55.48 INV. IN. (18") = 51.55 (DMH 17)

DRAIN MANHOLE SCHEDULE	
STRUCTURE	DETAILS
DMH 19	RIM = 56.76 INV. IN. (12") = 53.23 (DMH 22) INV. IN. (12") = 53.23 (DMH 20) INV. OUT (18") = 53.13 (DMH 17)
DMH 20	RIM = 55.05 INV. IN. (12") = 53.50 (CB 24) INV. IN. (12") = 53.50 (CB 25) INV. IN. (12") = 53.50 (DMH 21) INV. OUT (12") = 53.40 (DMH 19)
DMH 21	RIM = 57.31 INV. IN. (12") = 54.50 (CB 27) INV. IN. (12") = 54.50 (CB 26) INV. OUT (12") = 54.40 (DMH 20)
DMH 22	RIM = 57.98 INV. IN. (12") = 54.10 (CB 29) INV. IN. (12") = 52.89 (CB 28) INV. IN. (12") = 54.05 (DMH 23) INV. OUT (12") = 53.95 (DMH 19)
DMH 23	RIM = 59.09 INV. IN. (12") = 55.80 (CB 30) INV. IN. (12") = 55.80 (CB 31) INV. OUT (12") = 55.70 (DMH 22)
DMH 24	RIM = 57.80 INV. IN. (12") = 53.61 (CB 32) INV. IN. (12") = 53.61 (DMH 25) INV. IN. (12") = 53.61 (CB 33) INV. OUT (18") = 53.56 ()
DMH 25	RIM = 56.33 INV. IN. (12") = 53.76 (CB 34) INV. IN. (12") = 53.76 (CB 35) INV. OUT (12") = 53.71 (DMH 24)
DMH 28	RIM = 57.28 INV. IN. (12") = 53.40 (CB 38) INV. IN. (12") = 53.40 (CB 39) INV. OUT (12") = 53.30 (DMH 27)
DMH 29	RIM = 54.58 INV. IN. (12") = 49.96 (DMH 30) INV. OUT (18") = 49.86 ()
DMH 30	RIM = 53.75 INV. IN. (12") = 50.43 (CB 41) INV. IN. (12") = 50.43 (CB 40) INV. OUT (12") = 50.33 (DMH 29)
DMH 31	RIM = 61.28 INV. IN. (12") = 57.49 (CB 45) INV. IN. (12") = 57.49 (CB 46) INV. OUT (18") = 57.39 (DMH 32)
DMH 32	RIM = 61.50 INV. IN. (18") = 56.67 (DMH 31) INV. OUT (18") = 56.57 (DMH 34 W. CDS)
DMH 33 W. CDS	RIM = 58.58 INV. IN. (12") = 54.70 (CB 47) INV. IN. (12") = 0.55 (CB 48)
DMH 34 W. CDS	RIM = 59.90 INV. IN. (18") = 54.70 (DMH 32) INV. IN. (12") = 54.70 (DMH 35)
DMH 35	RIM = 62.28 INV. IN. (12") = 58.40 (CB 49) INV. IN. (12") = 57.55 (CB 50) INV. OUT (12") = 58.30 (DMH 34 W. CDS)
DMH 36	RIM = 64.08 INV. IN. (12") = 60.20 (CB 52) INV. IN. (12") = 60.20 (CB 51) INV. OUT (12") = 60.10 (DMH 37)
DMH 37	RIM = 64.90 INV. IN. (12") = 59.76 (DMH 36) INV. IN. (12") = 59.76 (CB 53) INV. OUT (12") = 59.66 (DMH 38)
DMH 38	RIM = 64.30 INV. IN. (12") = 59.40 (CB 54) INV. IN. (12") = 59.40 (DMH 37) INV. OUT (12") = 59.30 (DMH 39 W. CDS)
DMH 39 W. CDS	RIM = 65.05 INV. IN. (24") = 58.83 (DMH 40) INV. IN. (12") = 58.83 (DMH 38) INV. OUT (24") = 58.73 ()
DMH 40	RIM = 65.40 INV. IN. (18") = 59.23 (DMH 41) INV. IN. (12") = 59.23 (CB 55) INV. IN. (12") = 59.23 (DMH 44) INV. OUT (24") = 59.13 (DMH 39 W. CDS)

DRAIN MANHOLE SCHEDULE	
STRUCTURE	DETAILS
DMH 41	RIM = 64.98 INV. IN. (12") = 61.10 (DMH 42) INV. IN. (12") = 0.45 (CB 57) INV. IN. (12") = 61.10 (CB 56) INV. OUT (18") = 61.00 (DMH 40)
DMH 42	RIM = 65.50 INV. IN. (12") = 61.57 (DMH 43) INV. OUT (12") = 61.47 (DMH 41)
DMH 43	RIM = 66.05 INV. IN. (12") = 62.00 (CB 58) INV. IN. (12") = 62.00 (CB 59) INV. OUT (12") = 61.90 (DMH 42)
DMH 44	RIM = 66.33 INV. IN. (12") = 62.20 (CB 60) INV. IN. (12") = 62.20 (CB 61) INV. IN. (12") = 62.20 (DMH 45) INV. OUT (12") = 62.10 (DMH 40)
DMH 45	RIM = 67.87 INV. IN. (12") = 63.78 (CB 63) INV. IN. (12") = 63.78 (CB 62) INV. OUT (12") = 63.68 (DMH 44)
DMH 46	RIM = 64.10 INV. IN. (12") = 60.90 (CB 64) INV. IN. (12") = 60.90 (CB 65) INV. OUT (12") = 60.80 (DMH 47)
DMH 47	RIM = 63.80 INV. IN. (12") = 60.30 (CB 66) INV. IN. (12") = 60.30 (CB 67) INV. IN. (12") = 60.20 (DMH 46) INV. OUT (12") = 60.10 (DMH 48 W. CDS)
DMH 48 W. CDS	RIM = 63.78 INV. IN. (12") = 59.90 (DMH 47)
DMH 49	RIM = 62.68 INV. IN. (12") = 58.80 (CB 69) INV. IN. (12") = 58.80 (CB 68) INV. OUT (12") = 58.70 (DMH 50)
DMH 50	RIM = 61.88 INV. IN. (12") = 58.00 (CB 71) INV. IN. (12") = 58.00 (CB 70) INV. IN. (12") = 58.00 (DMH 49) INV. OUT (18") = 57.90 (DMH 51)
DMH 51	RIM = 60.50 INV. IN. (18") = 57.76 (DMH 50) INV. OUT (18") = 57.66 (DMH 52)
DMH 52	RIM = 60.79 INV. IN. (18") = 56.91 (DMH 51) INV. OUT (18") = 56.81 (DMH 53 W. CDS)
DMH 53 W. CDS	RIM = 60.15 INV. IN. (18") = 56.27 (DMH 52) INV. OUT (18") = 56.17 ()
DMH 54 W. CDS	RIM = 64.78 INV. IN. (12") = 60.90 (CB 72) INV. IN. (12") = 60.90 (CB 73)
DMH 55	RIM = 67.74 INV. IN. (12") = 64.40 (CB 74) INV. IN. (12") = 64.40 (CB 75) INV. OUT (12") = 64.30 (DMH 56)
DMH 56	RIM = 66.06 INV. IN. (12") = 62.55 (CB 76) INV. IN. (18") = 62.10 (DMH 59) INV. IN. (18") = 62.00 (DMH 57) INV. IN. (12") = 62.10 (DMH 55) INV. OUT (12") = 62.55 (CB 77)
DMH 57	RIM = 64.69 INV. IN. (12") = 61.30 (CB 78) INV. IN. (12") = 61.30 (CB 79) INV. OUT (18") = 61.10 (DMH 56) INV. OUT (24") = 61.00 (DMH 58 W. CDS)
DMH 58 W. CDS	RIM = 64.43 INV. IN. (24") = 60.55 (DMH 57)
DMH 59	RIM = 6608.00 INV. IN. (12") = 62.89 (CB 80) INV. IN. (12") = 62.89 (CB 81) INV. OUT (18") = 62.79 (DMH 56)
DMH 60	RIM = 64.65 INV. IN. (12") = 60.90 (CB 82) INV. IN. (12") = 60.90 (CB 83) INV. OUT (18") = 60.80 (DMH 61)

STRUCTURE	
DMH 61	
DMH 62	
DMH 63	
DMH 64 W. CDS	
DMH 65 W. CDS	
DMH 65	
DMH 67	
DMH 68 W. CDS	
DMH 69	
DMH 70	
OCS 3	
OCS 6	
OCS 7	
OCS 8	
OCS 9	
OCS 13	
OCS 14	
OCS 15	
OCS 16	
OCS 17	

DRAIN MANHOLE SCHEDULE

GRAPHIC SCALE

40

0

20

40

80

160

(IN FEET)

1 inch = 40'



PREPARED FOR

DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

MEI

MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=40'

CALC. BY: J.T.M.

PROJECT: M244407

DATE: AUG. 11, 2025

CHKD. BY: S.B.S.

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

GRADING
&
DRAINAGE

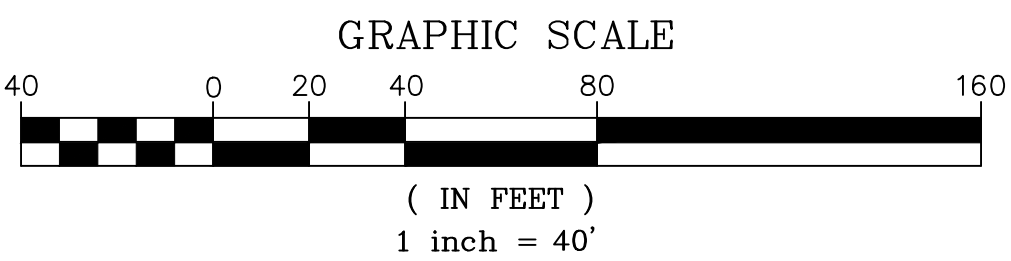
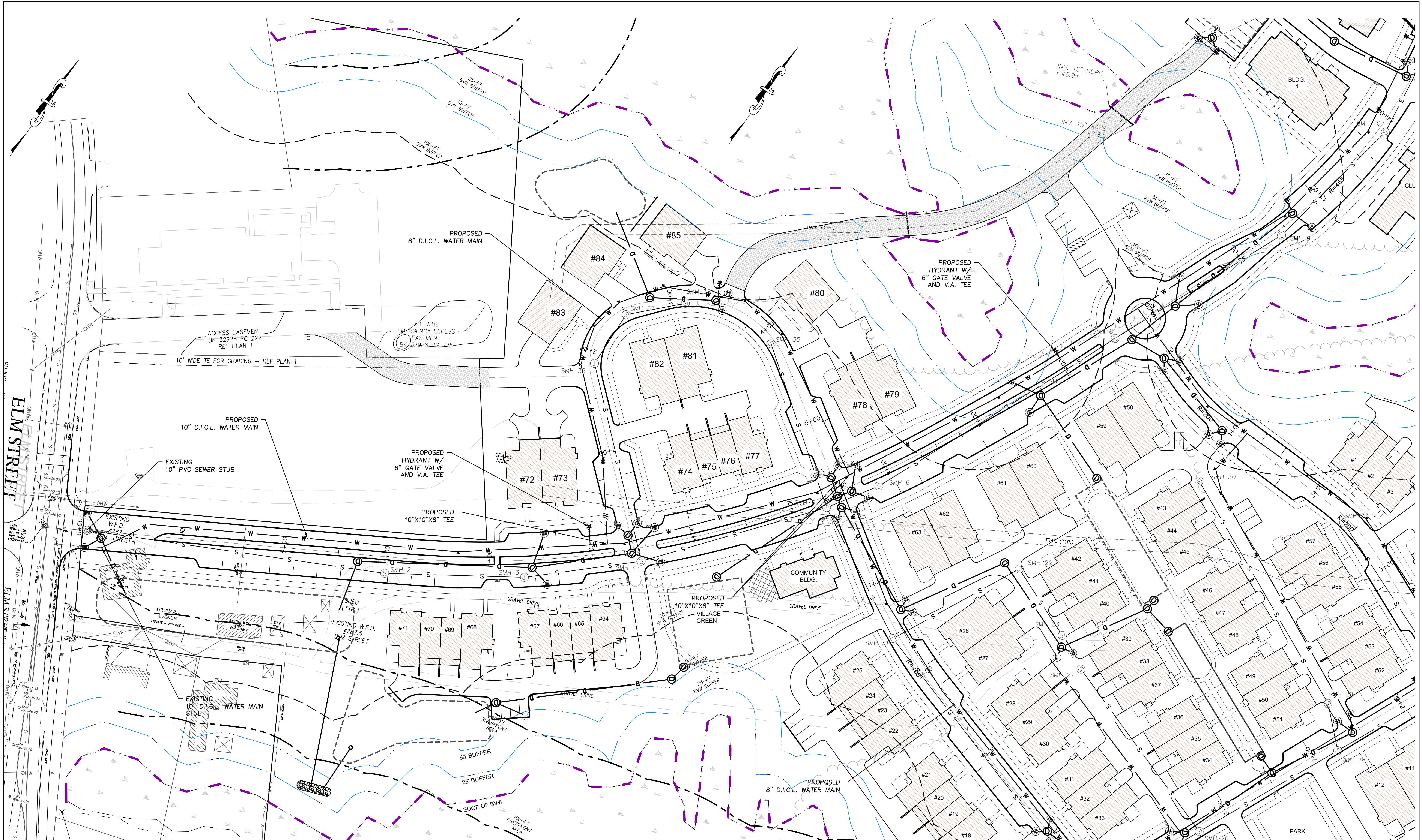
SHEET: C-6.4

PIPE TABLE						
PIPE LABEL	START STRUCT.	SIZE	LENGTH	SLOPE	START INVERT EL.	END INVERT EL. END STRUCT.
	AD 1	12.00	15.25	6.56%	62.50	61.50
	CB 1	12.00	28.17	0.53%	47.00	46.85 DMH 1 W. CDS
	CB 2	12.00	18.59	0.81%	47.00	46.85 DMH 1 W. CDS
	CB 3	12.00	35.48	0.42%	47.60	47.45 DMH 3
	CB 4	12.00	22.11	0.68%	47.60	47.45 DMH 3
	CB 5 W. CDS	12.00	31.96	0.47%	48.00	47.85 DMH 4
	CB 6	12.00	13.05	0.77%	48.47	48.37 DMH 5
	CB 7	12.00	14.71	0.68%	48.47	48.37 DMH 5
	CB 8	12.00	33.55	0.39%	48.30	48.17 DMH 6
	CB 9	12.00	29.54	0.44%	48.30	48.17 DMH 6
	CB 10	12.00	11.76	0.85%	50.50	50.40 DMH 7
	CB 11	12.00	13.26	0.75%	50.50	50.40 DMH 7
	CB 12	12.00	13.66	0.73%	50.50	50.40 DMH 8
	CB 13	12.00	11.06	0.90%	50.50	50.40 DMH 8
	CB 14	12.00	25.45	0.39%	50.45	50.35 DMH 9
	CB 15	12.00	17.51	0.57%	50.45	50.35 DMH 9
	CB 16	12.00	11.40	0.88%	51.90	51.80 DMH 11
	CB 17	12.00	11.28	0.89%	51.90	51.80 DMH 11
	CB 18	12.00	12.49	0.80%	53.25	53.15 DMH 13
	CB 19	12.00	10.80	0.93%	53.25	53.15 DMH 13
	CB 20	12.00	11.53	0.87%	51.13	51.03 DMH 15
	CB 21	12.00	14.09	0.71%	51.13	51.03 DMH 15
	CB 22	12.00	30.71	0.49%	52.30	52.15 DMH 17
	CB 23	12.00	19.72	0.51%	52.30	52.20 DMH 17
	CB 24	12.00	12.35	0.81%	53.60	53.50 DMH 20

PIPE TABLE								PIPE TABLE								PIPE TABLE							
PIPE LABEL	START STRUCT.	SIZE	LENGTH	SLOPE	START INVERT EL.	END INVERT EL.	END STRUCT.	PIPE LABEL	START STRUCT.	SIZE	LENGTH	SLOPE	START INVERT EL.	END INVERT EL.	END STRUCT.	PIPE LABEL	START STRUCT.	SIZE	LENGTH	SLOPE	START INVERT EL.	END INVERT EL.	END STRUCT.
	CB 25	12.00	15.70	0.64%	53.60	53.50	DMH 20		CB 50	12.00	14.91	−7.04%	56.50	57.55	DMH 35		CB 75	12.00	15.12	0.66%	64.50	64.40	DMH 55
	CB 26	12.00	13.41	0.75%	54.60	54.50	DMH 21		CB 51	12.00	15.19	0.66%	60.30	60.20	DMH 36		CB 76	12.00	15.09	0.66%	62.65	62.55	DMH 56
	CB 27	12.00	12.94	0.77%	54.60	54.50	DMH 21		CB 52	12.00	15.58	0.64%	60.30	60.20	DMH 36		CB 77	12.00	14.80	−0.68%	62.65	62.55	DMH 56
	CB 28	12.00	30.61	0.77%	53.12	52.89	DMH 22		CB 53	12.00	12.57	7.95%	60.76	59.76	DMH 37		CB 78	12.00	17.96	0.56%	61.40	61.30	DMH 57
	CB 29	12.00	22.80	0.44%	54.20	54.10	DMH 22		CB 54	12.00	10.34	7.74%	60.20	59.40	DMH 38		CB 79	12.00	18.25	0.55%	61.40	61.30	DMH 57
	CB 30	12.00	14.05	0.71%	55.90	55.80	DMH 23		CB 55	12.00	17.88	5.59%	60.23	59.23	DMH 40		CB 80	12.00	19.62	0.51%	62.99	62.89	DMH 59
	CB 31	12.00	23.35	0.43%	55.90	55.80	DMH 23		CB 56	12.00	13.96	0.72%	61.20	61.10	DMH 41		CB 81	12.00	19.08	0.52%	62.99	62.89	DMH 59
	CB 32	12.00	19.32	0.52%	53.71	53.61	DMH 24		CB 57	12.00	13.69	−6.94%	−0.50	0.45	DMH 41		CB 82	12.00	13.88	0.72%	61.00	60.90	DMH 60
	CB 33	12.00	14.29	0.70%	53.71	53.61	DMH 24		CB 58	12.00	15.62	0.64%	62.10	62.00	DMH 43		CB 83	12.00	13.69	0.73%	61.00	60.90	DMH 60
	CB 34	12.00	14.34	0.70%	53.86	53.76	DMH 25		CB 59	12.00	18.53	0.54%	62.10	62.00	DMH 43		CB 84	12.00	14.58	0.69%	62.00	61.90	DMH 63
	CB 35	12.00	16.03	0.62%	53.86	53.76	DMH 25		CB 60	12.00	16.33	0.61%	62.30	62.20	DMH 44		CB 85	12.00	14.48	0.69%	62.00	61.90	DMH 63
	CB 36	12.00	18.28	0.55%	54.45	54.35	DMH 26		CB 61	12.00	18.79	0.53%	62.30	62.20	DMH 44		CB 86	12.00	10.16	2.46%	58.00	57.75	DMH 65 W. CDS
	CB 37	12.00	18.26	0.55%	54.45	54.35	DMH 26		CB 62	12.00	15.51	0.64%	63.88	63.78	DMH 45		CB 87	12.00	19.68	1.27%	58.00	57.75	DMH 65 W. CDS
	CB 38	12.00	14.83	0.67%	53.50	53.40	DMH 28		CB 63	12.00	16.88	0.59%	63.88	63.78	DMH 45		CB 88	12.00	19.88	5.03%	60.00	59.00	DMH 66
	CB 39	12.00	15.55	0.64%	53.50	53.40	DMH 28		CB 64	12.00	29.93	0.67%	61.10	60.90	DMH 46		CB 89	12.00	14.22	7.03%	60.00	59.00	DMH 66
	CB 40	12.00	11.36	0.88%	50.53	50.43	DMH 30		CB 65	12.00	19.12	1.05%	61.10	60.90	DMH 46		CB 90	12.00	16.32	6.13%	59.23	58.23	DMH 67
	CB 41	12.00	11.36	0.88%	50.53	50.43	DMH 30		CB 66	12.00	24.39	0.82%	60.50	60.30	DMH 47		CB 91	12.00	21.79	4.59%	59.23	58.23	DMH 67
	CB 42	12.00	195.16	0.77%	50.50	49.00			CB 67	12.00	17.90	1.68%	60.60	60.30	DMH 47		CB 92	12.00	26.44	0.57%	61.40	61.25	DMH 69
	CB 43	12.00	68.52	4.38%	52.00	49.00			CB 68	12.00	14.82	0.67%	58.90	58.80	DMH 49		CB 93	12.00	27.55	0.54%	61.40	61.25	DMH 69
	CB 44	12.00	107.22	0.47%	53.50	53.00			CB 69	12.00	15.80	0.63%	58.90	58.80	DMH 49		CB 94	12.00	13.04	0.77%	60.00	59.90	DMH 70
	CB 45	12.00	15.06	0.66%	57.59	57.49	DMH 31		CB 70	12.00	24.44	0.82%	58.20	58.00	DMH 50		CB 95	12.00	14.73	0.68%	60.00	59.90	DMH 70
	CB 46	12.00	20.84	0.48%	57.59	57.49	DMH 31		CB 71	12.00	21.91	0.91%	58.20	58.00	DMH 50		DMH 1 W. CDS	12.00	56.14	1.34%	46.75	46.00	
	CB 47	12.00	13.62	0.73%	54.80	54.70	DMH 33 W. CDS		CB 72	12.00	8.01	7.49%	61.50	60.90	DMH 54 W. CDS		DMH 2 W. CDS	18.00	50.04	0.50%	46.25	46.00	
	CB 48	12.00	12.79	−8.21%	−0.50	0.55	DMH 33 W. CDS		CB 73	12.00	13.94	4.31%	61.50	60.90	DMH 54 W. CDS		DMH 3	18.00	169.60	0.59%	47.35	46.35	DMH 2 W. CDS
	CB 49	12.00	12.99	0.77%	58.50	58.40	DMH 35		CB 74	12.00	14.90	0.67%	64.50	64.40	DMH 55		DMH 4	12.00	22.30	3.36%	47.75	47.00	

PIPE TABLE						
PIPE LABEL	START STRUCT.	SIZE	LENGTH	SLOPE	START INVERT EL.	END INVERT EL. END STRUCT.
	DMH 4A	12.00	172.41	0.87%	49.35	47.85 DMH 4
	DMH 5	12.00	17.63	0.57%	48.27	48.17 DMH 6
	DMH 6	18.00	97.70	0.63%	48.07	47.45 DMH 3
	DMH 7	12.00	19.31	0.52%	50.30	50.20 DMH 10
	DMH 8	18.00	11.52	0.87%	50.30	50.20 DMH 10
	DMH 9	12.00	14.81	0.68%	50.25	50.15 DMH 10
	DMH 10	18.00	141.20	0.74%	50.05	49.00 DMH 10A W. CDS
	DMH 11	18.00	114.75	0.49%	50.96	50.40 DMH 8
	DMH 12	12.00	110.52	0.49%	51.60	51.06 DMH 11
	DMH 13	12.00	98.81	0.47%	52.16	51.70 DMH 12
	DMH 14	12.00	91.44	0.54%	52.65	52.16 DMH 13
	DMH 15	12.00	64.18	0.47%	50.93	50.63 DMH 16
	DMH 16	12.00	89.25	0.59%	50.53	50.00
	DMH 17	18.00	97.30	0.51%	52.05	51.55 DMH 18 W. CDS
	DMH 19	18.00	104.03	0.94%	53.13	52.15 DMH 17
	DMH 20	12.00	36.19	0.47%	53.40	53.23 DMH 19
	DMH 21	12.00	90.04	1.00%	54.40	53.50 DMH 20
	DMH 22	12.00	53.23	1.35%	53.95	53.23 DMH 19
	DMH 23	12.00	145.32	1.14%	55.70	54.05 DMH 22
	DMH 24	18.00	113.44	0.49%	53.56	53.00
	DMH 25	12.00	23.19	0.43%	53.71	53.61 DMH 24
	DMH 26	12.00	87.85	1.65%	54.25	52.80 DMH 27
	DMH 27	12.00	19.55	0.51%	52.70	52.60 DMH 27A W. CDS
	DMH 28	12.00	102.83	0.49%	53.30	52.80 DMH 27
	DMH 29	18.00	108.97	0.79%	49.86	49.00

PIPE TABLE								PIPE TABLE							
PIPE LABEL	START STRUCT.	SIZE	LENGTH	SLOPE	START INVERT EL.	END INVERT EL.	END PIPE STRUCTURE LABEL	START STRUCT.	SIZE	LENGTH	SLOPE	START INVERT EL.	END INVERT EL.	END STRUCT.	
	DMH 30	12.00	76.70	0.48%	50.33	49.96	DMH 29	DMH 60	18.00	112.18	0.80%	60.80	59.90	DMH 61	
	DMH 31	18.00	77.84	0.92%	57.39	56.67	DMH 32	DMH 61	18.00	139.77	1.07%	59.80	58.30	DMH 62	
	DMH 32	18.00	78.42	2.38%	56.57	54.70	DMH 34 W. CDS	DMH 62	18.00	86.88	0.63%	58.20	57.65	DMH 64 W. CDS	
	DMH 35	12.00	85.26	4.22%	58.30	54.70	DMH 34 W. CDS	DMH 63	12.00	123.14	2.84%	61.80	58.30	DMH 62	
	DMH 36	12.00	70.19	0.48%	60.10	59.76	DMH 37	DMH 66	18.00	103.04	0.49%	58.46	57.95	DMH 67	
	DMH 37	12.00	52.82	0.49%	59.66	59.40	DMH 38	DMH 67	24.00	14.24	5.62%	57.85	57.05	DMH 68 W. CDS	
	DMH 38	12.00	95.01	0.49%	59.30	58.83	DMH 39 W. CDS	DMH 69	18.00	141.86	0.49%	59.26	58.56	DMH 66	
	DMH 39 W. CDS	24.00	69.86	2.48%	58.73	57.00		DMH 70	12.00	86.96	0.51%	59.80	59.36	DMH 69	
	DMH 40	24.00	28.72	1.04%	59.13	58.83	DMH 39 W. CDS	OCS 3	12.00	16.55	0.60%	49.50	49.40	DMH 4A	
	DMH 41	18.00	58.52	3.02%	61.00	59.23	DMH 40	OCS 6	18.00	10.40	0.96%	52.75	52.65	DMH 14	
	DMH 42	12.00	74.54	0.50%	61.47	61.10	DMH 41	OCS 7	12.00	30.00	1.17%	54.00	53.65	DMH 14	
	DMH 43	12.00	67.60	0.49%	61.90	61.57	DMH 42	OCS 8	12.00	59.06	4.23%	54.00	51.50		
	DMH 44	12.00	88.69	3.24%	62.10	59.23	DMH 40	OCS 9	12.00	41.97	5.96%	54.00	51.50		
	DMH 45	12.00	151.97	0.97%	63.68	62.20	DMH 44	OCS 13	12.00	68.26	3.37%	59.30	57.00		
	DMH 46	12.00	121.61	0.49%	60.80	60.20	DMH 47	OCS 14	12.00	107.79	3.71%	61.00	57.00		
	DMH 47	12.00	12.36	1.62%	60.10	59.90	DMH 48 W. CDS	OCS 15	12.00	52.13	6.14%	60.20	57.00		
	DMH 49	12.00	62.98	1.11%	58.70	58.00	DMH 50	OCS 16	18.00	37.65	13.28%	60.00	55.00		
	DMH 50	18.00	29.44	0.48%	57.90	57.76	DMH 51	OCS 17	18.00	31.43	14.32%	57.50	53.00		
	DMH 51	18.00	152.45	0.49%	57.66	56.91	DMH 52	OCS 18	18.00	39.25	10.19%	57.00	53.00		
	DMH 52	18.00	107.96	0.50%	56.81	56.27	DMH 53 W. CDS	Structure - (105)	12.00	0.27	0.00%	-0.50	-0.50	Structure - (106)	
	DMH 53 W. CDS	18.00	70.52	1.66%	56.17	55.00		Structure - (112)	12.00	0.33	0.00%	-0.50	-0.50	Structure - (113)	
	DMH 55	12.00	111.87	1.97%	64.30	62.10	DMH 56								
	DMH 56	18.00	138.01	-0.65%	62.00	61.10	DMH 57								
	DMH 57	24.00	77.06	0.58%	61.00	60.55	DMH 58 W. CDS								
	DMH 59	18.00	139.59	0.49%	62.79	62.10	DMH 56								



PREPARED FOR
DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY



MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

05/22/25
05/30/25

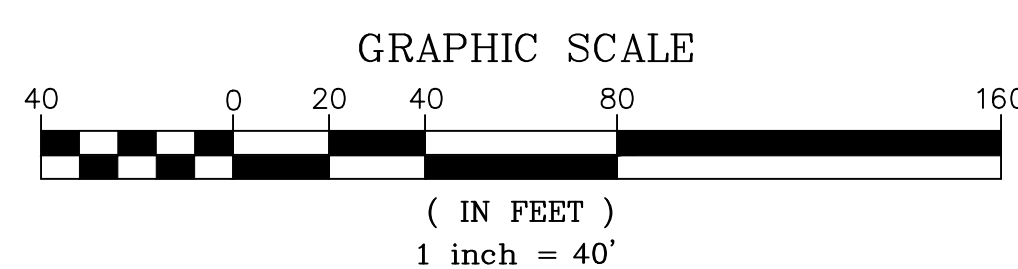
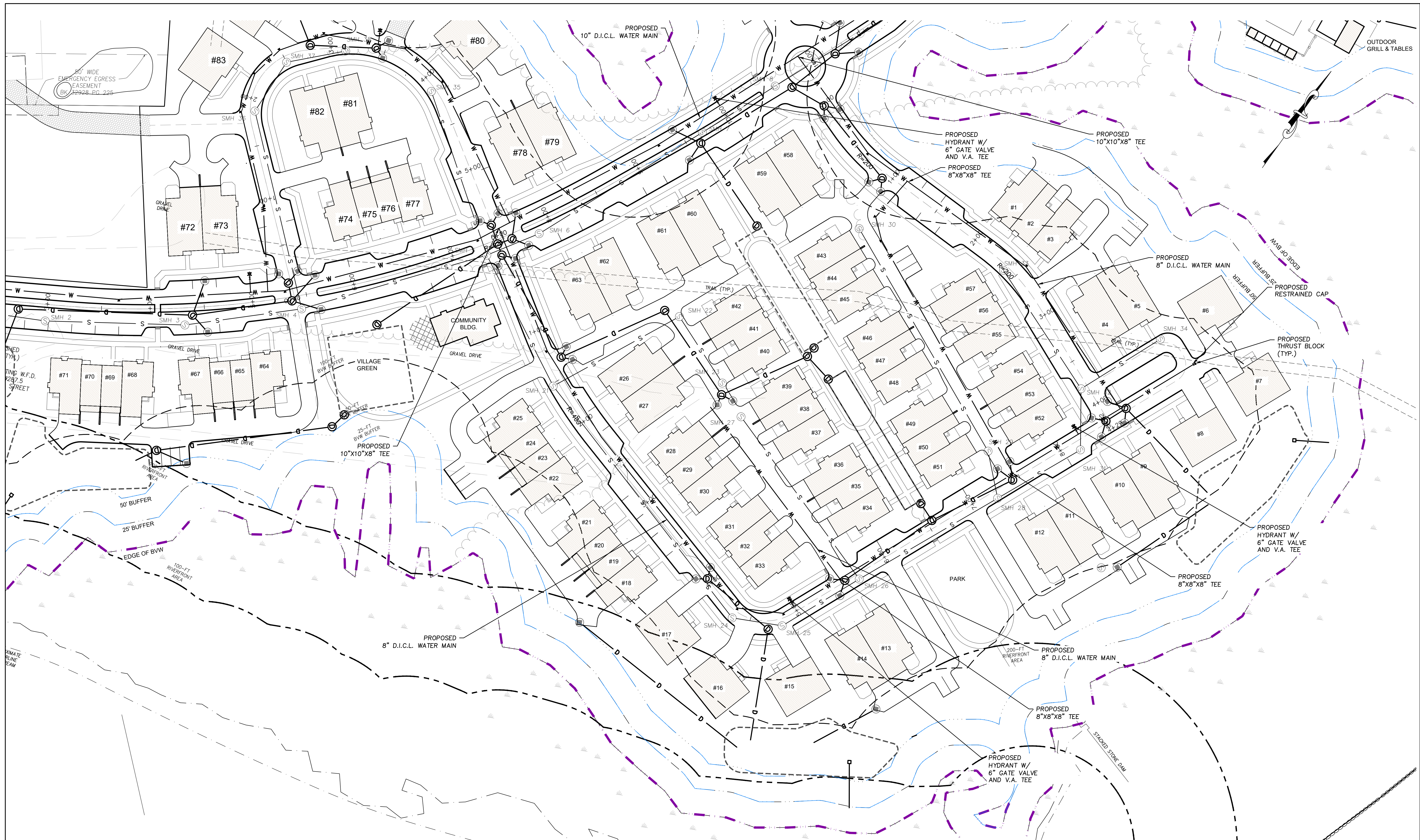
DATE: AUG. 11, 2025
CHKD. BY: S.B.S.

PROJECT: M244407

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

SITE UTILITIES

SHEET: C-7.0



PREPARED FOR

DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

SOUTH NEIGHBORHOOD

MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
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05/22/25

05/30/25

DATE: AUG 11 2025

CALC BY: JTM

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ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

SITE UTILITIES

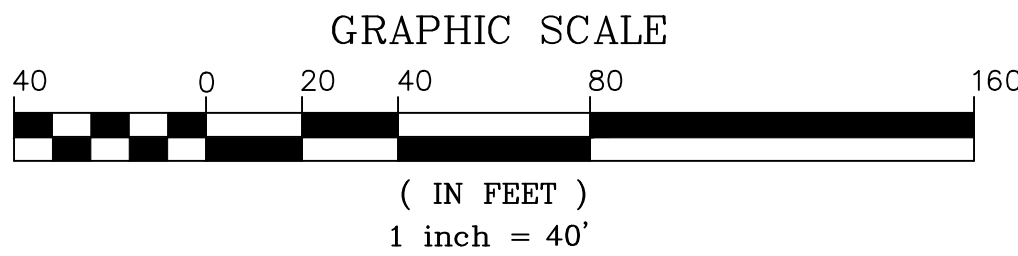
SHEET: C-7.1

SEWER MANHOLE SCHEDULE	
STRUCTURE	DETAILS
SMH 1	RIM = 50.18 INV IN. (8") = 41.55 (SMH 2)
SMH 2	RIM = 51.92 INV IN. (8") = 43.02 (SMH 3) INV. OUT (8") = 43.00 (SMH 1)
SMH 3	RIM = 50.59 INV IN. (8") = 43.68 (SMH 4) INV. OUT (8") = 43.69 (SMH 2)
SMH 4	RIM = 51.40 INV IN. (8") = 44.52 (SMH 5) INV IN. (8") = 44.52 (SMH 36) INV. OUT (8") = 44.52 (SMH 3)
SMH 5	RIM = 53.37 INV IN. (8") = 45.44 (SMH 6) INV IN. (8") = 45.44 (SMH 35) INV IN. (8") = 45.44 (SMH 21) INV. OUT (8") = 45.44 (SMH 4)
SMH 6	RIM = 53.90 INV IN. (8") = 45.70 (SMH 7) INV. OUT (8") = 45.70 (SMH 5)
SMH 7	RIM = 56.23 INV IN. (8") = 46.77 (SMH 8) INV. OUT (8") = 46.77 (SMH 6)
SMH 8	RIM = 57.07 INV IN. (8") = 47.17 (SMH 9) INV. OUT (8") = 47.17 (SMH 7)
SMH 9	RIM = 58.78 INV IN. (8") = 48.12 (SMH 10) INV. OUT (8") = 48.12 (SMH 8)
SMH 10	RIM = 60.40 INV IN. (8") = 49.09 (SMH 11) INV. OUT (8") = 49.09 (SMH 9)
SMH 11	RIM = 62.23 INV IN. (8") = 49.74 (SMH 18) INV. OUT (8") = 49.69 (SMH 10) INV. OUT (8") = 50.32 (SMH 12)
SMH 12	RIM = 54.57 INV IN. (8") = 49.69 (SMH 11) INV. OUT (8") = 51.05 (SMH 13)
SMH 13	RIM = 55.36 INV IN. (8") = 50.32 (SMH 12) INV. OUT (8") = 51.84 (SMH 14)
SMH 14	RIM = 156.31 INV IN. (8") = 51.05 (SMH 13) INV. OUT (8") = 52.79 (SMH 15)
SMH 15	RIM = 65.92 INV IN. (8") = 51.84 (SMH 14) INV IN. (8") = 52.79 (SMH 16)
SMH 16	RIM = 66.03 INV IN. (8") = 54.32 (SMH 17) INV. OUT (8") = 54.32 (SMH 15)
SMH 17	RIM = 64.26 INV. OUT (8") = 55.82 (SMH 16)
SMH 18	RIM = 67.44 INV IN. (8") = 60.00 (SMH 19) INV IN. (8") = 60.00 (SMH 20) INV. OUT (8") = 60.00 (SMH 11)
SMH 19	RIM = 71.74 INV. OUT (8") = 61.00 (SMH 18)
SMH 20	RIM = 70.13 INV. OUT (8") = 61.00 (SMH 18)

SEWER MANHOLE SCHEDULE	
STRUCTURE	DETAILS
SMH 21	RIM = 54.84 INV IN. (8") = 46.20 (SMH 24) INV IN. (8") = 46.20 (SMH 22) INV. OUT (8") = 46.20 (SMH 5)
SMH 22	RIM = 50.42 INV IN. (8") = 46.90 (SMH 23) INV. OUT (8") = 46.90 (SMH 21)
SMH 23	RIM = 50.79 INV. OUT (8") = 47.27 (SMH 22)
SMH 24	RIM = 53.98 INV IN. (8") = 47.75 (SMH 25) INV. OUT (8") = 47.65 (SMH 21)
SMH 25	RIM = 54.87 INV IN. (8") = 48.10 (SMH 26) INV. OUT (8") = 48.10 (SMH 24)
SMH 26	RIM = 56.63 INV IN. (8") = 48.52 (SMH 28) INV IN. (8") = 48.52 (SMH 27) INV. OUT (8") = 48.52 (SMH 25)
SMH 27	RIM = 53.04 INV. OUT (8") = 49.52 (SMH 26)
SMH 28	RIM = 57.39 INV IN. (8") = 49.26 (SMH 31) INV IN. (8") = 49.26 (SMH 29) INV. OUT (8") = 49.26 (SMH 26)
SMH 29	RIM = 53.00 INV IN. (8") = 49.48 (SMH 30) INV. OUT (8") = 49.48 (SMH 28)
SMH 30	RIM = 54.24 INV. OUT (8") = 50.72 (SMH 29)
SMH 31	RIM = 59.62 INV IN. (8") = 49.71 (SMH 32) INV. OUT (8") = 49.71 (SMH 28)
SMH 32	RIM = 56.64 INV IN. (8") = 50.00 (SMH 33) INV IN. (8") = 50.00 (SMH 34) INV. OUT (8") = 50.00 (SMH 31)
SMH 33	RIM = 58.06 INV. OUT (8") = 50.68 (SMH 32)
SMH 34	RIM = 53.96 INV. OUT (8") = 50.44 (SMH 32)
SMH 35	RIM = 54.68 INV. OUT (8") = 47.00 (SMH 5)
SMH 36	RIM = 54.84 INV IN. (8") = 46.62 (SMH 37) INV. OUT (8") = 46.62 (SMH 4)
SMH 37	RIM = 55.00 INV IN. (8") = 47.14 (SMH 38) INV. OUT (8") = 47.14 (SMH 36)
SMH 38	RIM = 54.47 INV. OUT (8") = 47.69 (SMH 37)

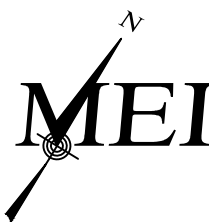
SEWER MAIN PIPE TABLE							
PIPE LABEL	START STRUCT.	SIZE	LENGTH	SLOPE	START INVERT EL.	END INVERT EL.	END STRUCT.
	SMH 2	8.00	292.34	0.50%	43.00	41.55	SMH 1
	SMH 3	8.00	135.94	0.49%	43.69	43.02	SMH 2
	SMH 4	8.00	114.58	0.73%	44.52	43.68	SMH 3
	SMH 5	8.00	187.49	0.49%	45.44	44.52	SMH 4
	SMH 6	8.00	55.06	0.47%	45.70	45.44	SMH 5
	SMH 7	8.00	186.78	0.57%	46.77	45.70	SMH 6
	SMH 8	8.00	83.98	0.48%	47.17	46.77	SMH 7
	SMH 9	8.00	190.45	0.50%	48.12	47.17	SMH 8
	SMH 10	8.00	142.14	0.68%	49.09	48.12	SMH 9
	SMH 11	8.00	128.94	0.49%	50.32	49.69	SMH 12
	SMH 11	8.00	119.43	0.50%	49.69	49.09	SMH 10
	SMH 12	8.00	145.02	0.50%	51.05	50.32	SMH 13
	SMH 13	8.00	160.33	0.49%	51.84	51.05	SMH 14
	SMH 14	8.00	193.92	0.49%	52.79	51.84	SMH 15
	SMH 16	8.00	310.05	0.49%	54.32	52.79	SMH 15
	SMH 17	8.00	295.31	0.51%	55.82	54.32	SMH 16
	SMH 18	8.00	343.75	2.98%	60.00	49.74	SMH 11
	SMH 19	8.00	185.06	0.54%	61.00	60.00	SMH 18
	SMH 20	8.00	147.95	0.68%	61.00	60.00	SMH 18
	SMH 21	8.00	142.83	0.53%	46.20	45.44	SMH 5

SEWER MAIN PIPE TABLE							
PIPE LABEL	START STRUCT.	SIZE	LENGTH	SLOPE	START INVERT EL.	END INVERT EL.	END STRUCT.
	SMH 22	8.00	140.10	0.50%	46.90	46.20	SMH 21
	SMH 23	8.00	76.92	0.48%	47.27	46.90	SMH 22
	SMH 24	8.00	284.72	0.51%	47.65	46.20	SMH 21
	SMH 25	8.00	49.24	0.71%	48.10	47.75	SMH 24
	SMH 26	8.00	87.66	0.48%	48.52	48.10	SMH 25
	SMH 27	8.00	195.26	0.51%	49.52	48.52	SMH 26
	SMH 28	8.00	155.81	0.47%	49.26	48.52	SMH 26
	SMH 29	8.00	46.77	0.47%	49.48	49.26	SMH 28
	SMH 30	8.00	250.08	0.50%	50.72	49.48	SMH 29
	SMH 31	8.00	93.33	0.48%	49.71	49.26	SMH 28
	SMH 32	8.00	59.43	0.49%	50.00	49.71	SMH 31
	SMH 33	8.00	137.62	0.49%	50.68	50.00	SMH 32
	SMH 34	8.00	90.93	0.48%	50.44	50.00	SMH 32
	SMH 35	8.00	168.14	0.93%	47.00	45.44	SMH 5
	SMH 36	8.00	197.65	1.06%	46.62	44.52	SMH 4
	SMH 37	8.00	56.55	0.92%	47.14	46.62	SMH 36
	SMH 38	8.00	58.59	0.94%	47.69	47.14	SMH 37



PREPARED FOR
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360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY		



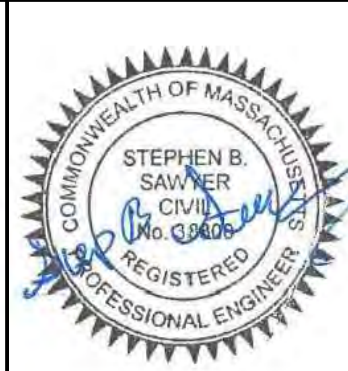
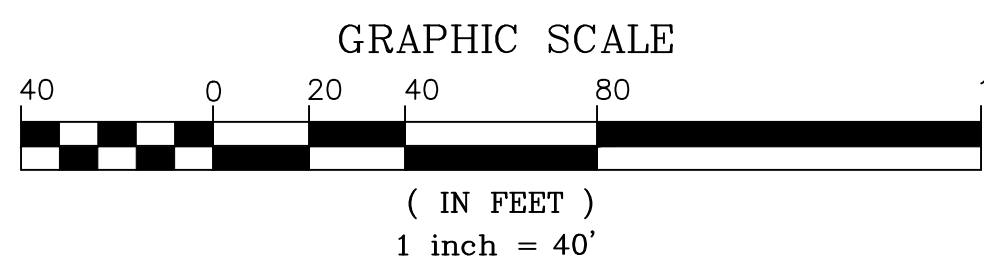
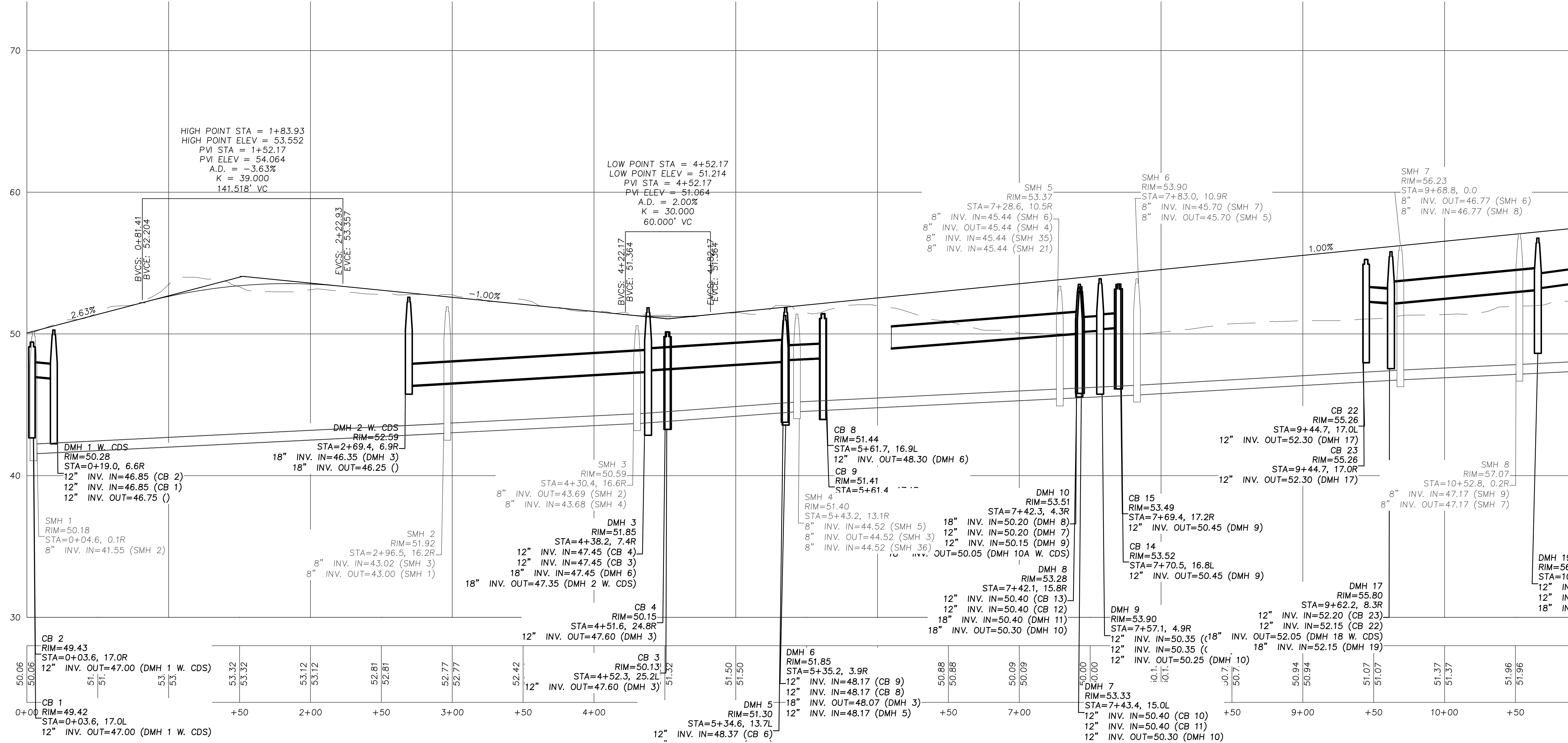
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=40'	CALC. BY: J.T.M.	PROJECT: M244407
DATE: AUG. 11, 2025	CHKD. BY: S.B.S.	

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

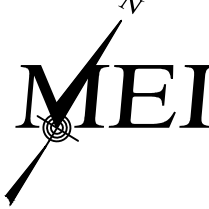
SITE UTILITIES

SHEET: C-7.4



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DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY



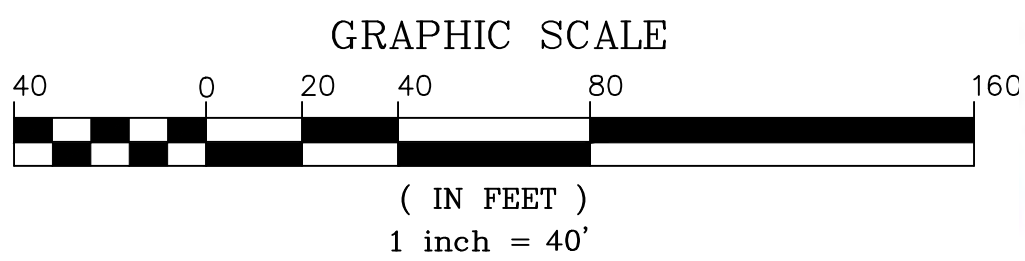
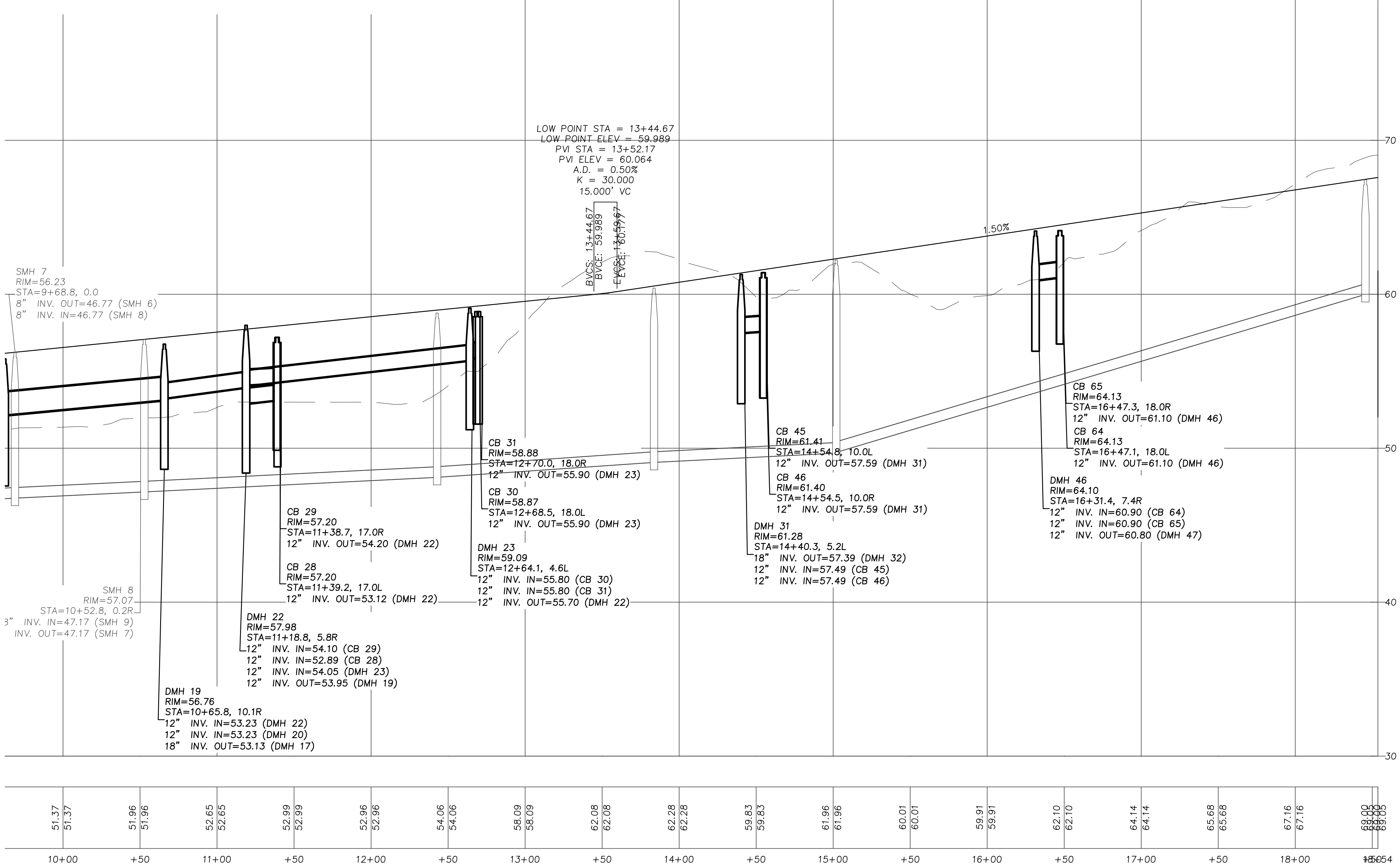
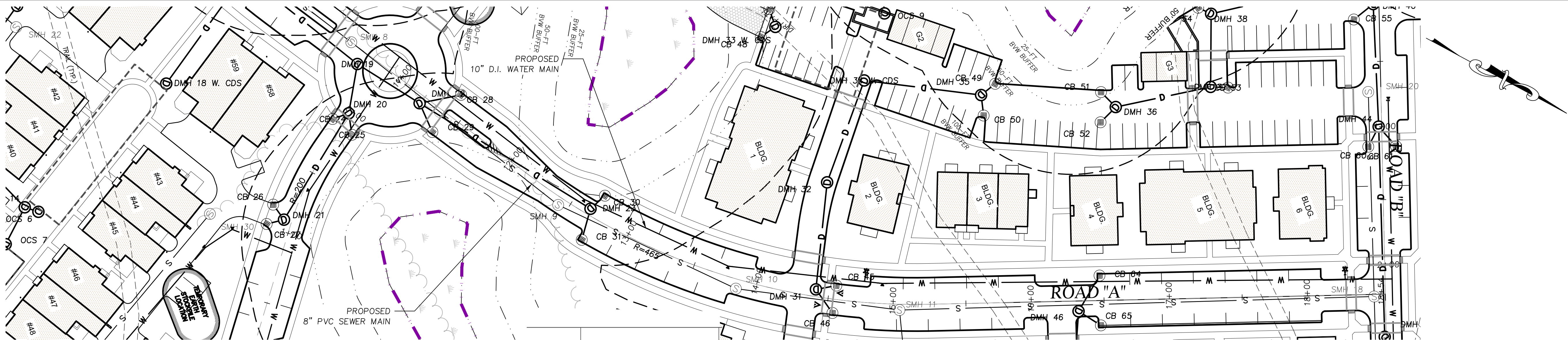
MILLENNIUM ENGINEERING, INC.
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ROCKY HILL MBTA COMMUNITY
IN
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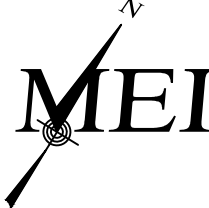
**ROADWAY
&
UTILITY
PROFILE**

SHEET: C-8.0



PREPARED FOR
DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY



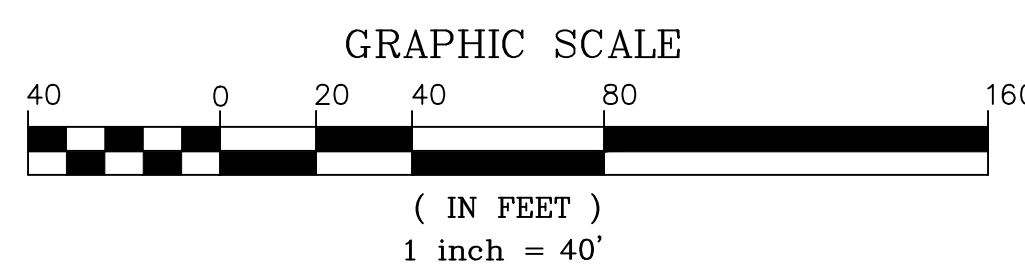
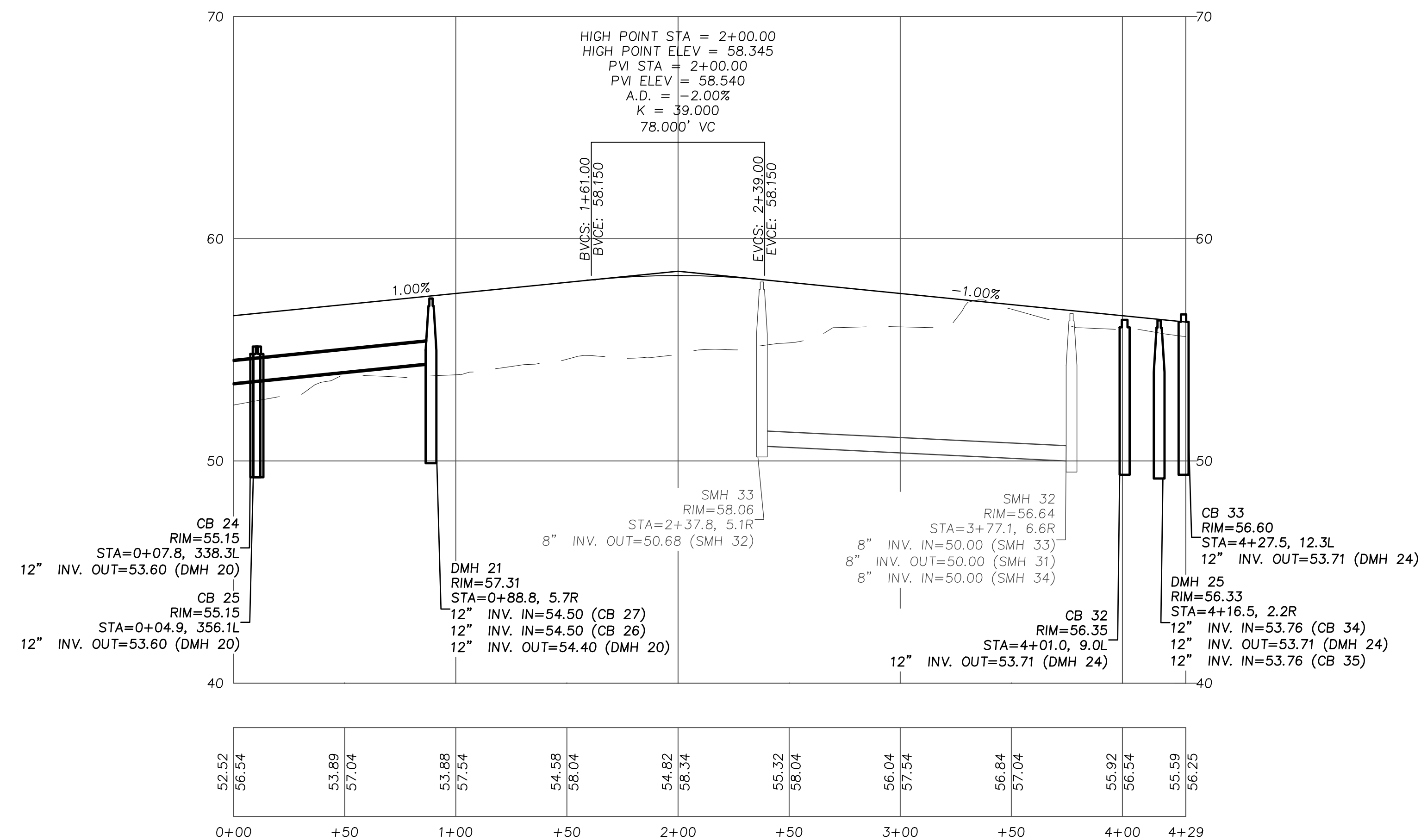
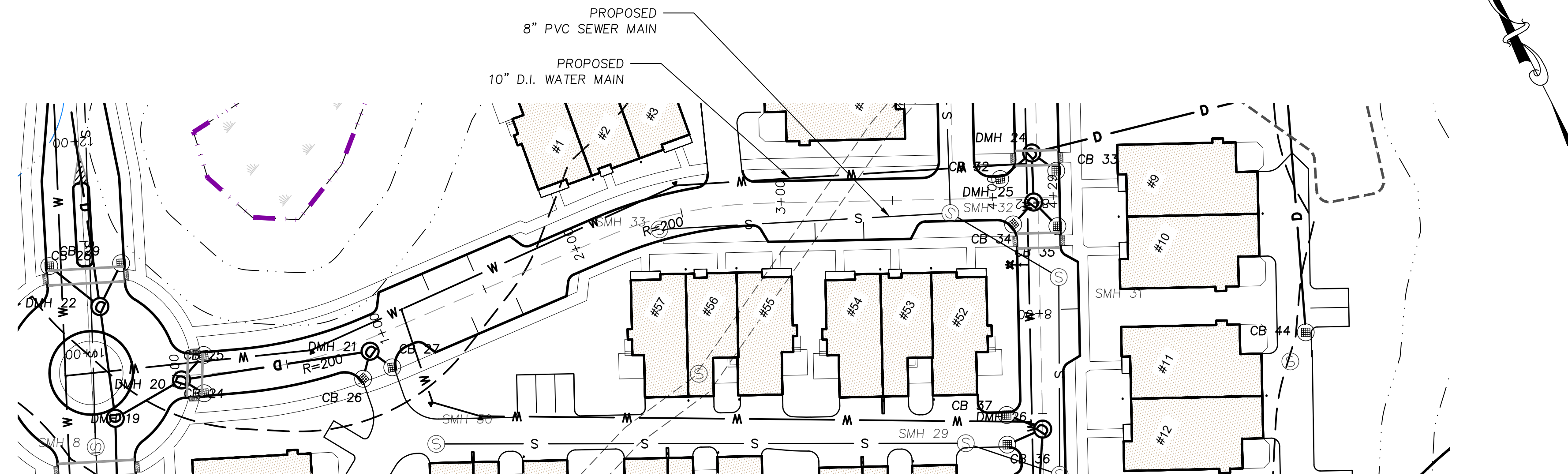
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=40'	CALC. BY: J.T.M.	PROJECT: M244407
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ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

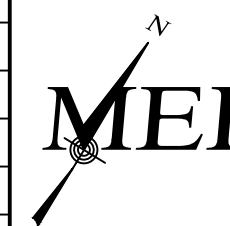
**ROADWAY
&
UTILITY
PROFILE**

SHEET: C-8.1



PREPARED FOR
DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY



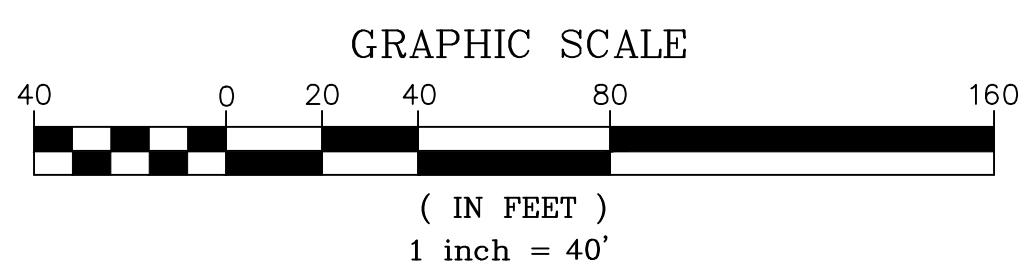
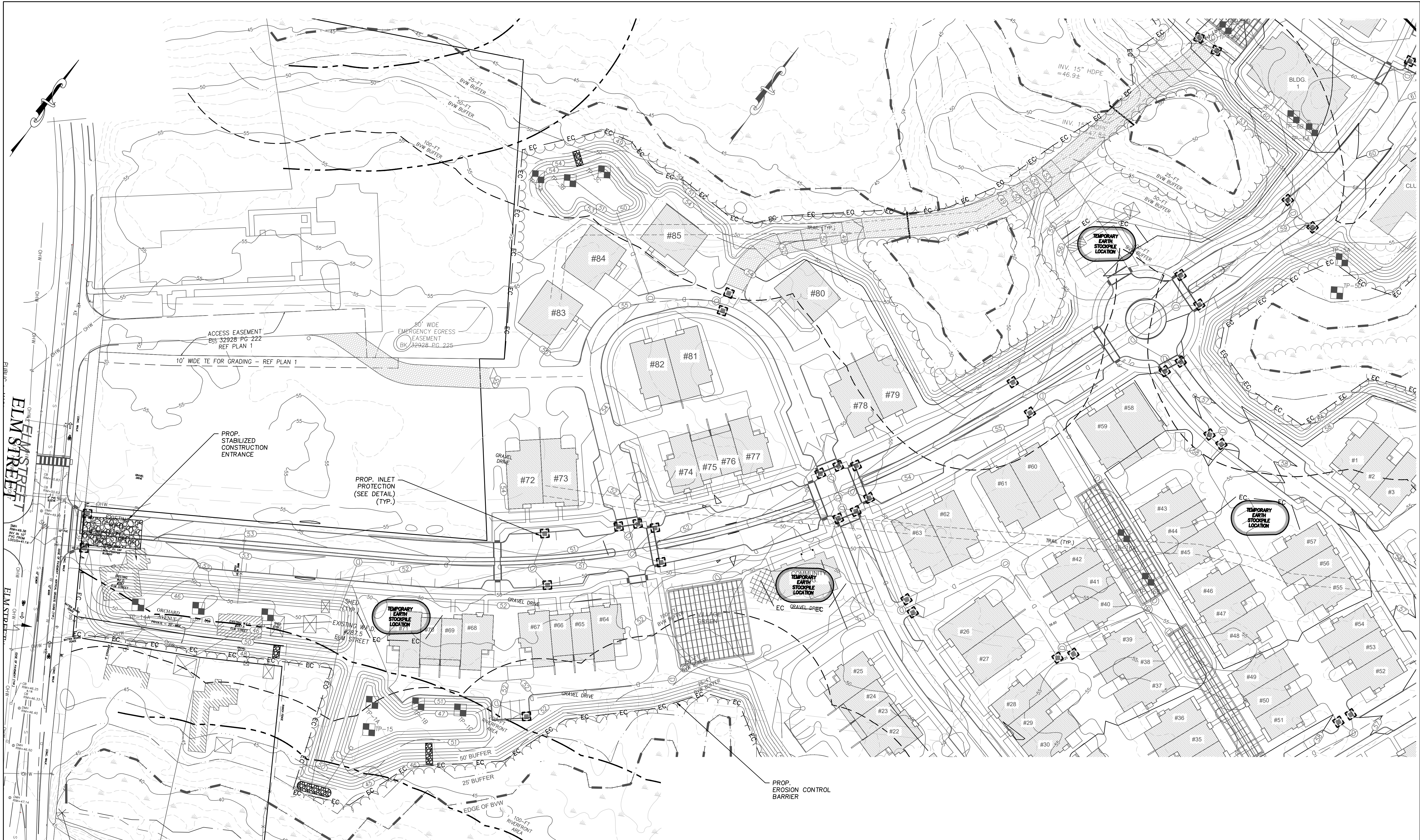
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62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=40'
DATE: AUG. 11, 2025
CALC. BY: J.T.M.
CHKD. BY: S.B.S.
PROJECT: M244407

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

**ROADWAY
&
UTILITY
PROFILE**

SHEET: C-8.4



PREPARED FOR

DALE DEVELOPMENT, LLC

360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY

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ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

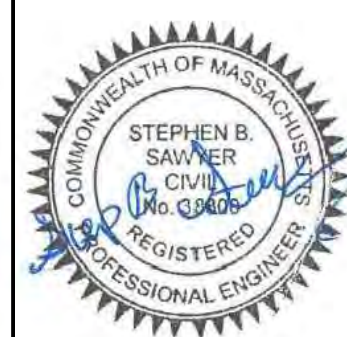
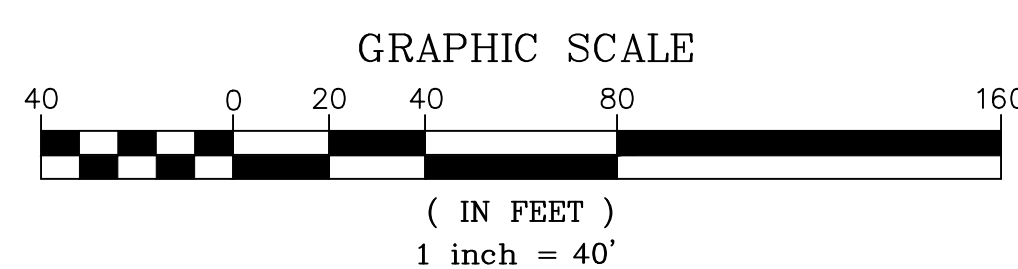
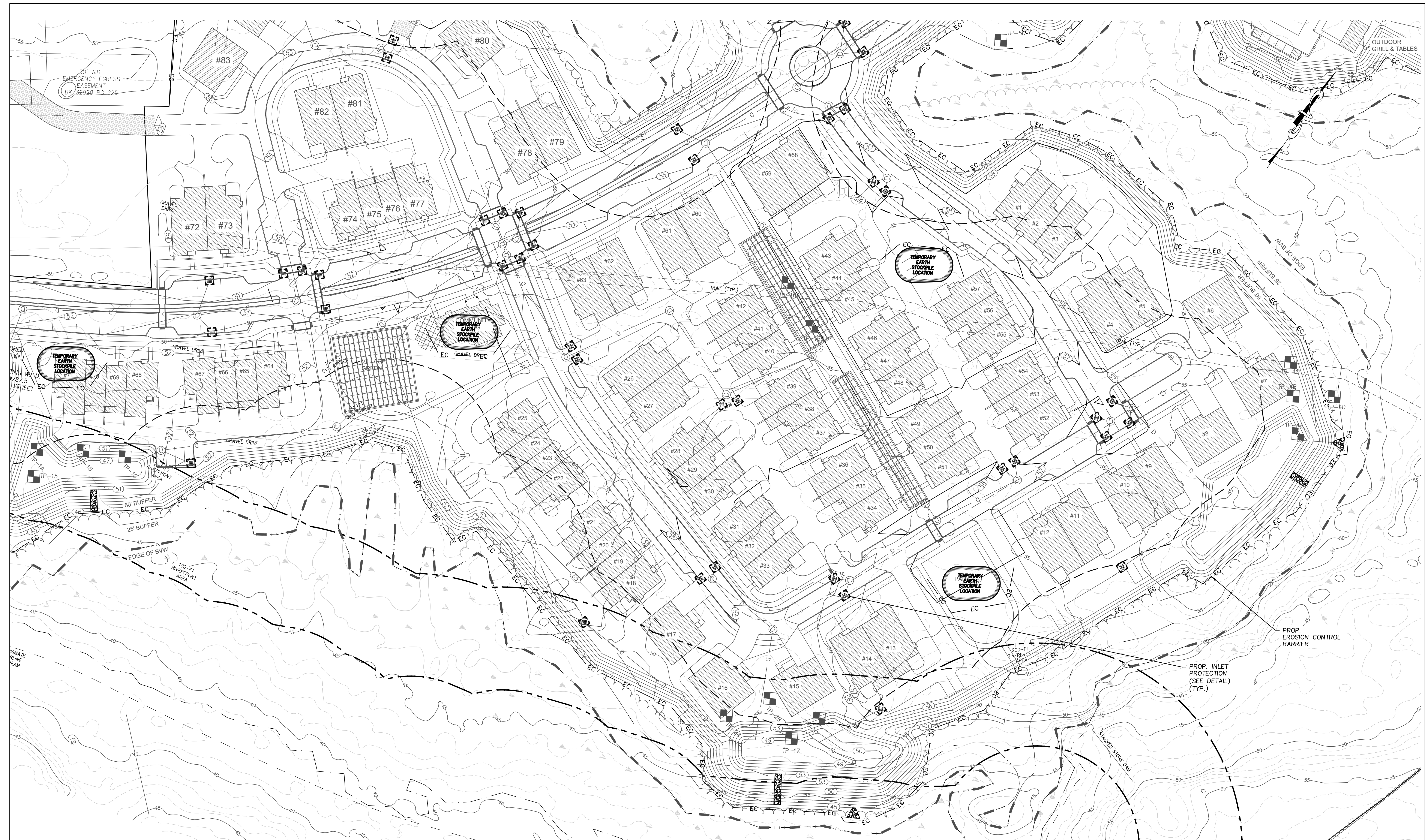
05/22/25
05/30/25

DATE: AUG. 11, 2025	CALC. BY: J.T.M.	PROJECT: M244407
	CHKD. BY: S.B.S.	

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

EROSION & SEDIMENTATION CONTROL PLAN

SHEET: C-9.0



PREPARED FOR

DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

SOUTH NEIGHBORHOOD

MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

05/22/25

05/30/25

DATE: AUG. 11, 2025

CALC BY: JTM

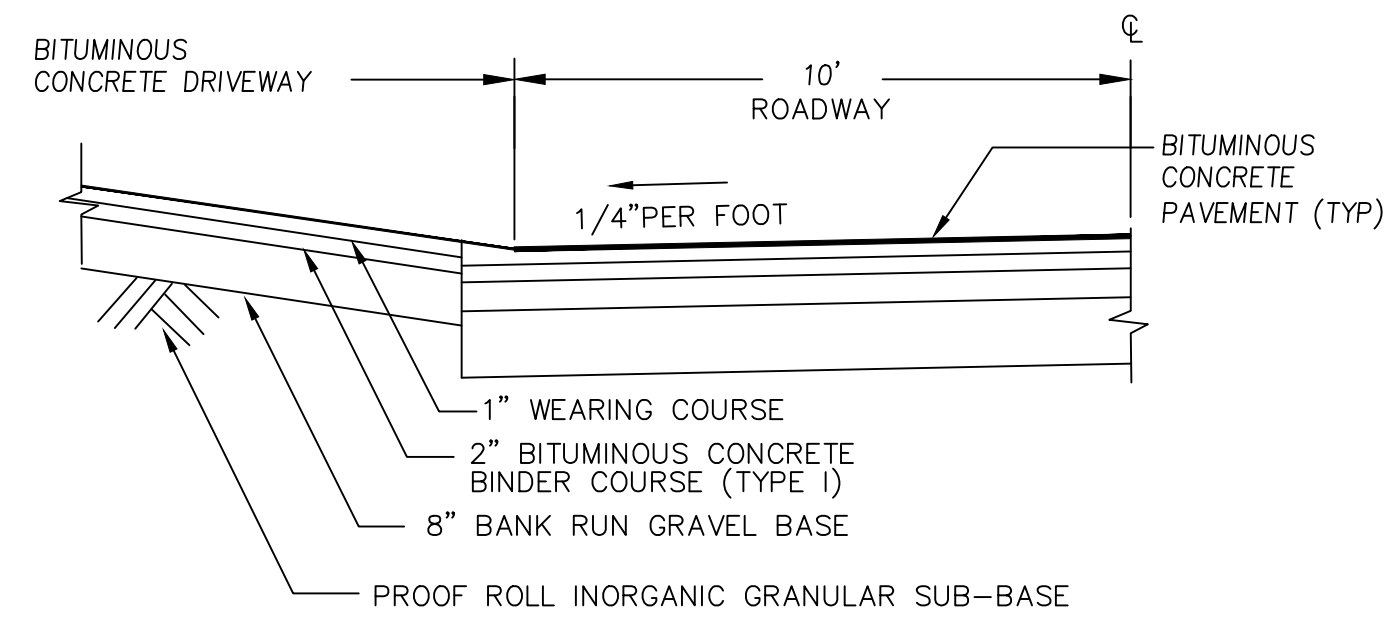
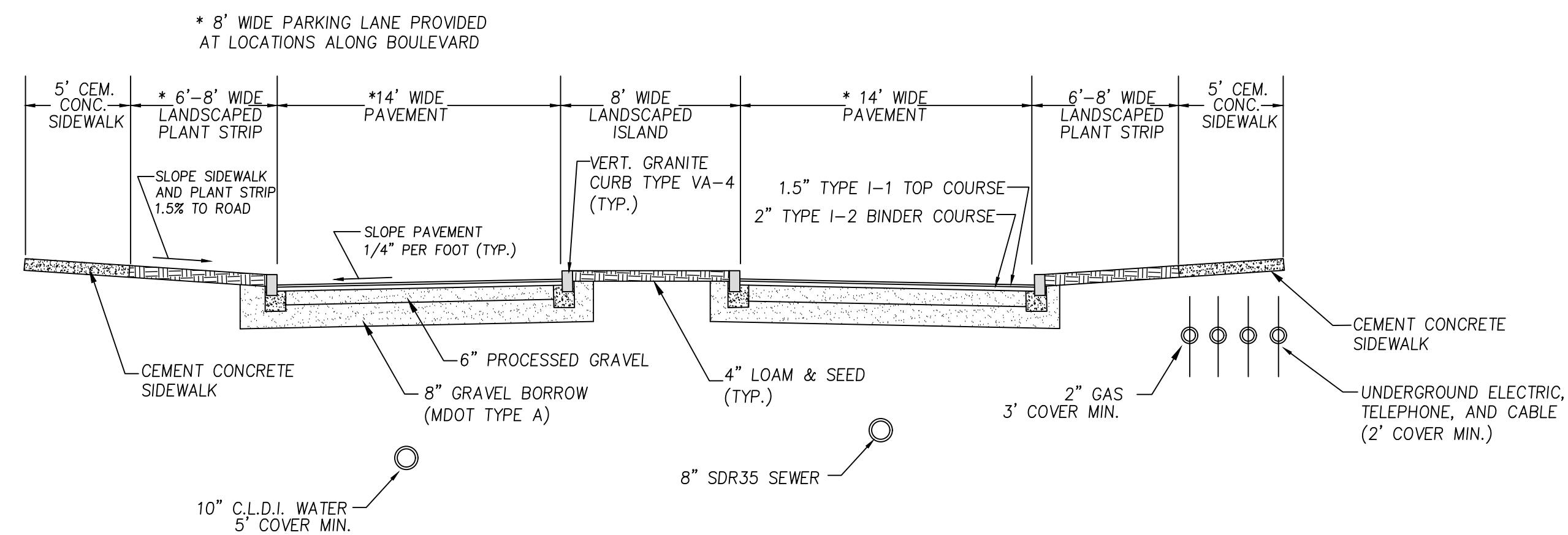
CALC. BY: S.T.M.
CHKD. BY: S.B.S.

PROJECT: M244407

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

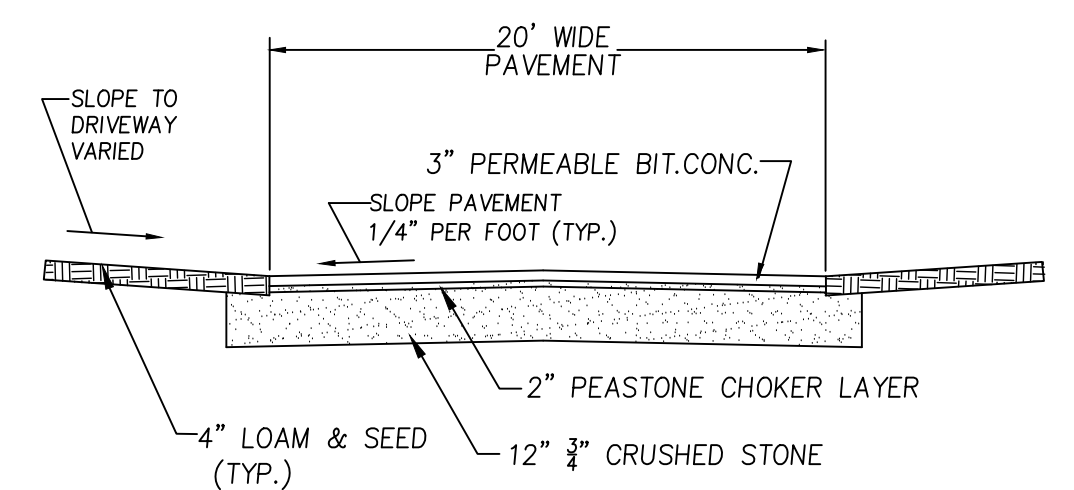
EROSION &
SEDIMENTATION
CONTROL
PLAN

SHEET: C-9.1



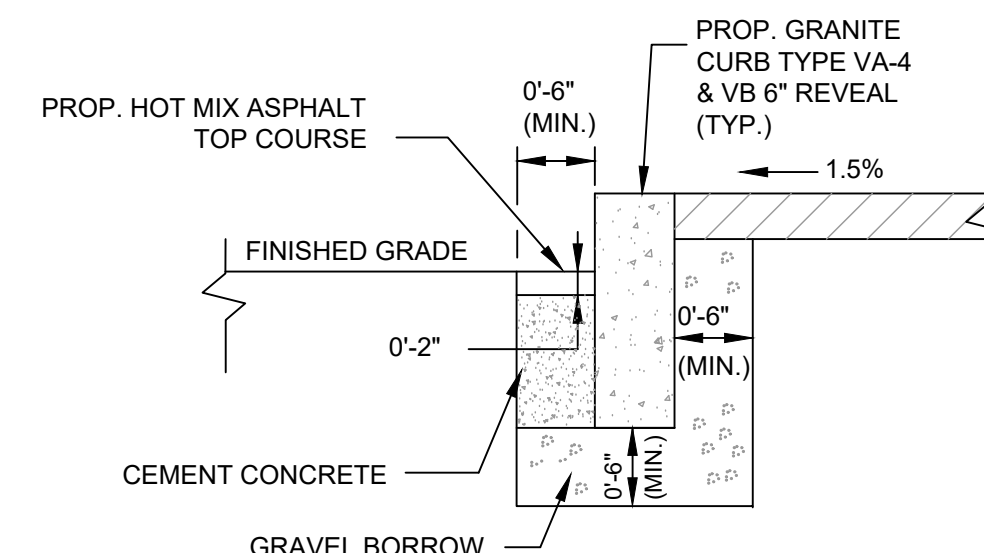
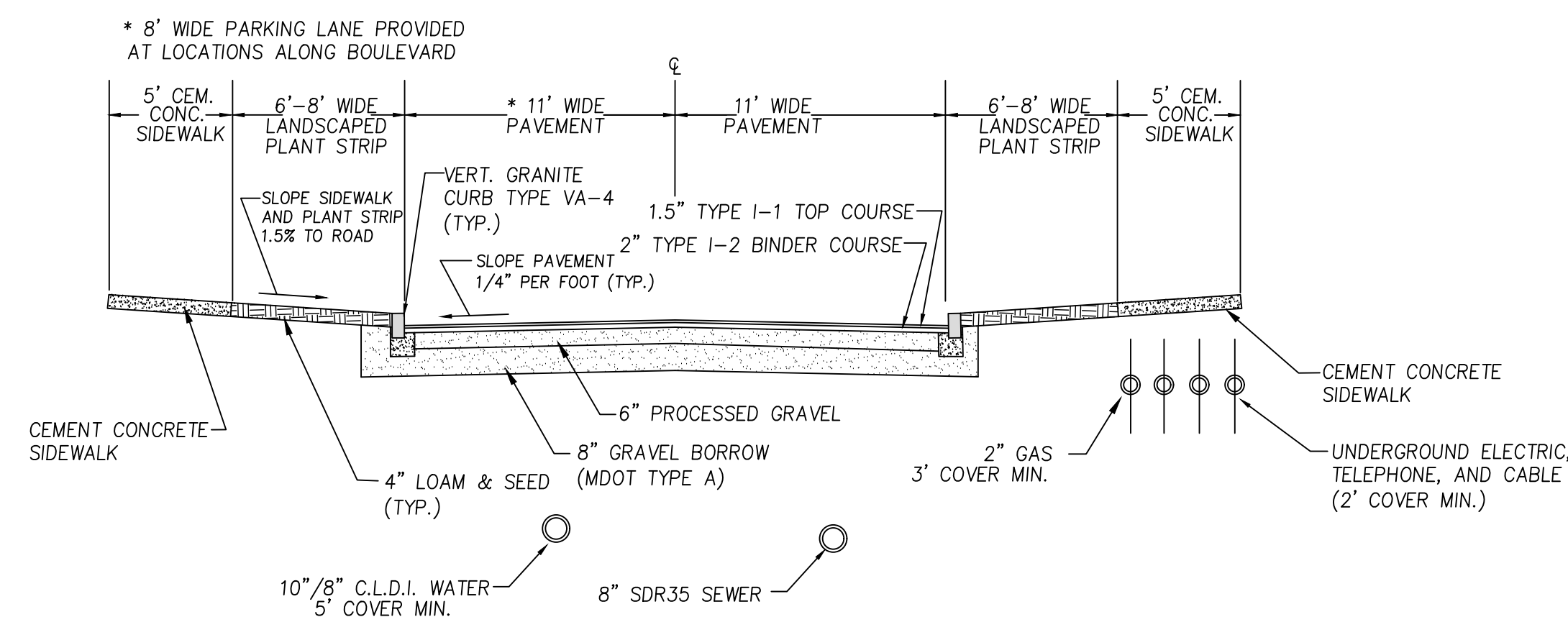
NOTES:

1. ALL DRIVEWAY APRONS WILL BE CONSTRUCTED AND PAVED AT THE SAME TIME AS THE ROADWAY PAVEMENT

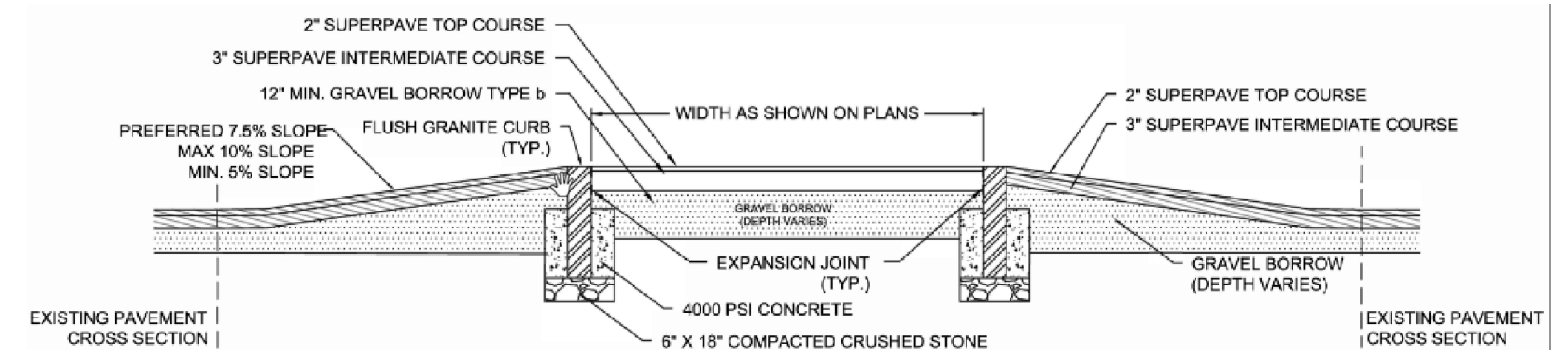


EMERGENCY ROADWAY CROSS-SECTIONS (TYPICAL)

N.T.S.

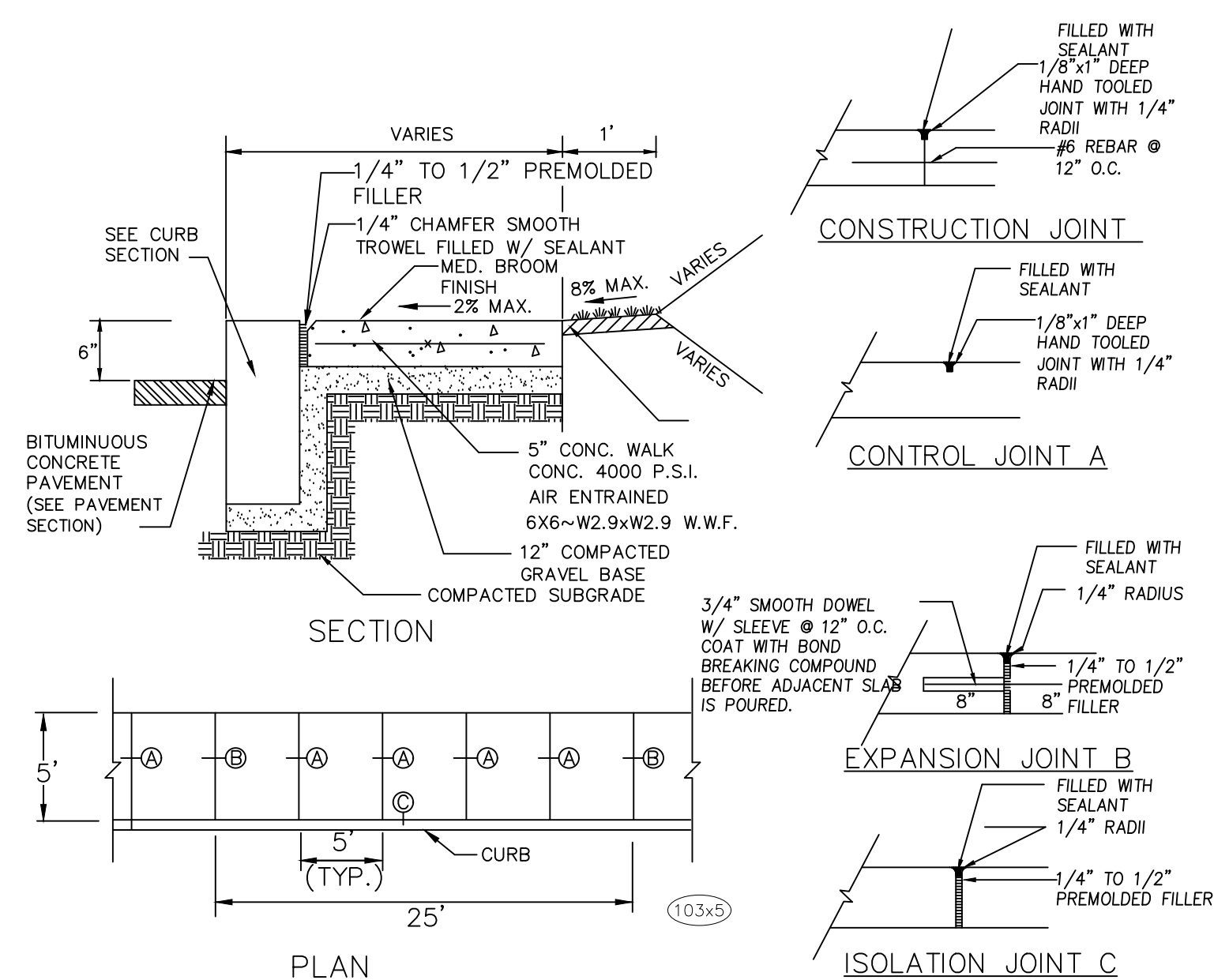
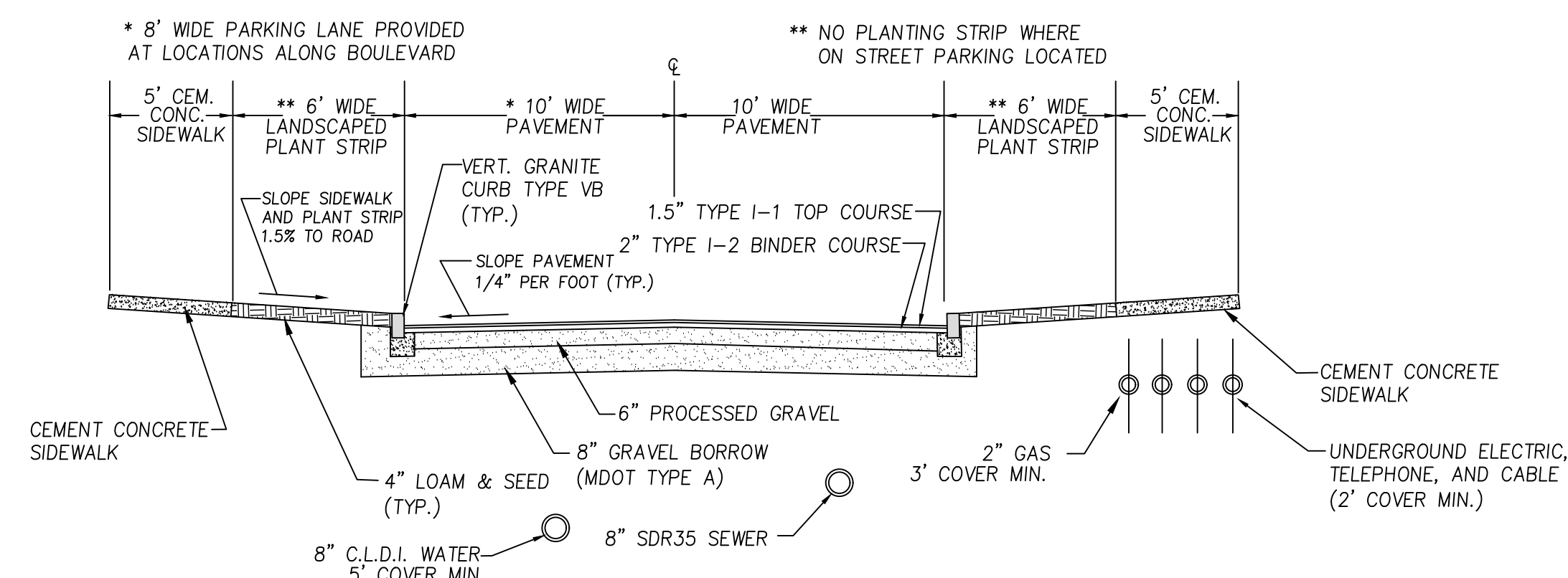


GRANITE CURB TYPE VA-4 & VB
N.T.S.



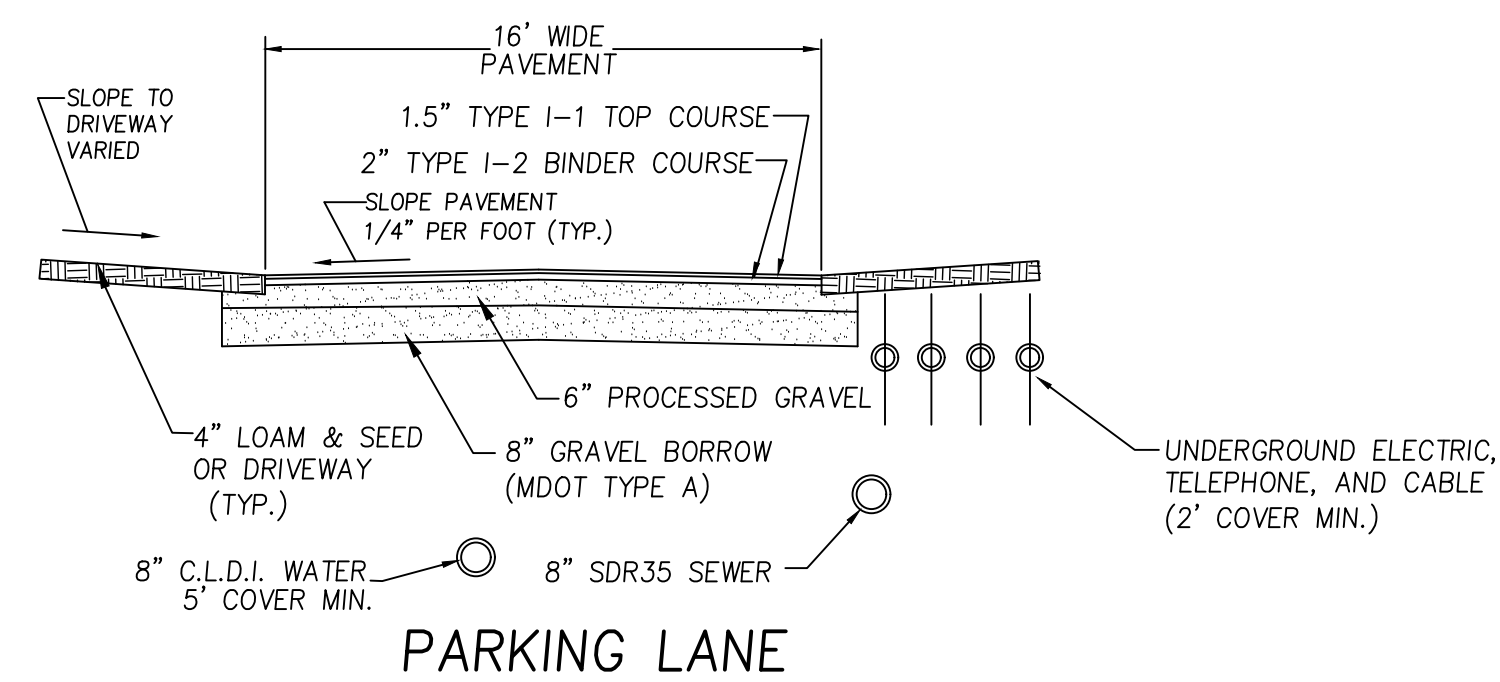
RAISED CROSSWALK SECTION

N.T.S.



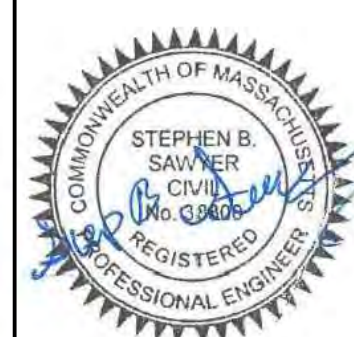
CONCRETE SIDEWALK

N.T.S.



ROADWAY CROSS-SECTIONS (TYPICAL)

N.T.S.



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RYE, NH 03870

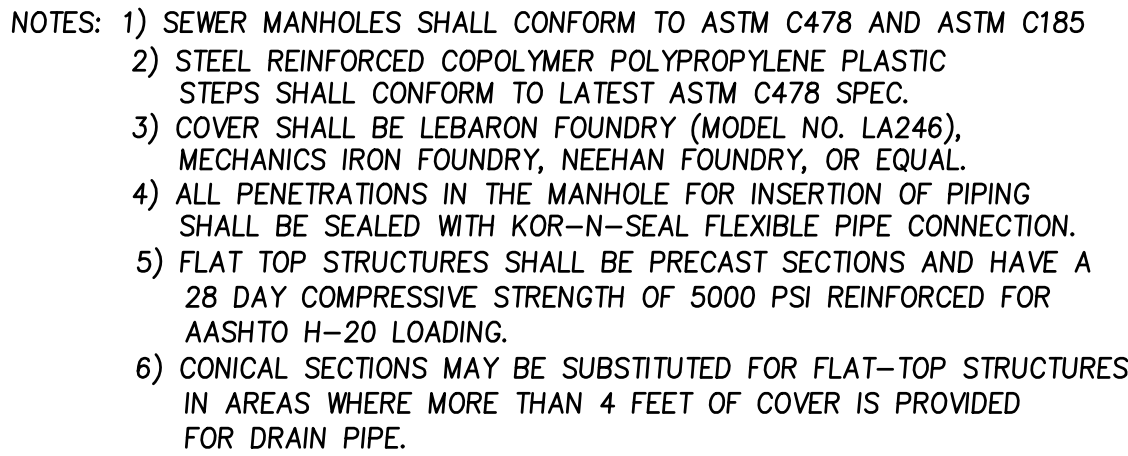


MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

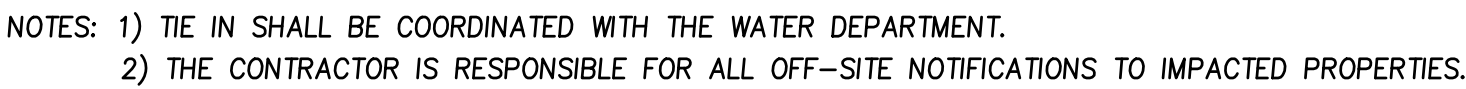
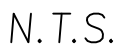
ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

CONSTRUCTION DETAILS - ROADWAY

SHEET: C10.0



N.T.S.



N.T.S.



N.T.S.

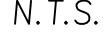
PIPING W/ MECHANICAL JOINT FITTINGS
SHALL HAVE RETAINING GLANDS



- ## NOTES

1. VALUES SHOWN ARE FOR TEST PRESSURE OF 150 PSI WITH A 100 PSI SURGE ALLOWANCE.
 2. THRUST BLOCKS SHALL NOT BE PLACED AGAINST THE FOLLOWING SOILS: PEAT, ORGANIC SILT AND ORGANIC SOILS, SOFT CLAY, RUBBISH FILL AND OTHER UNSUITABLE ARTIFICIAL FILL, SHATTERED SHALE, INORGANIC SILT AND VERY FINE SANDS.
 3. POURED CONCRETE THRUST BLOCKS SHALL NOT COVER ANY JOINTS, CLAMPS, NUTS, BOLTS, ETC.
- N. I. S.

DETAILS



DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

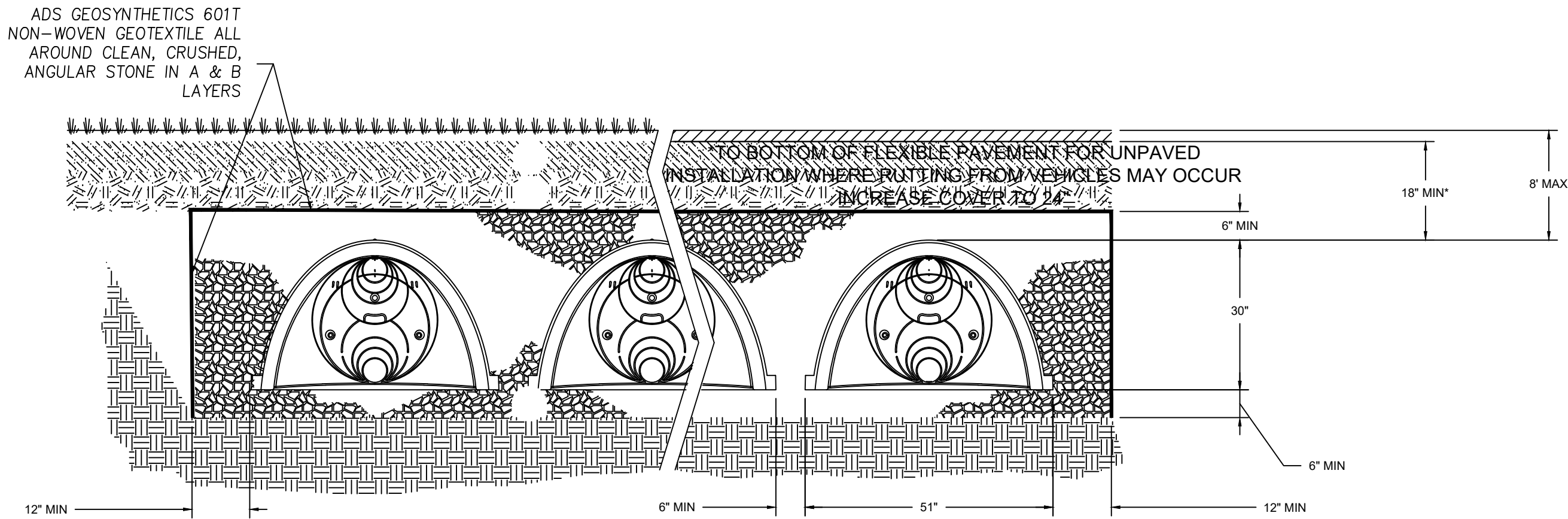


ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

CONSTRUCTION DETAILS - WATER & SEWER

SHEET: C10.1

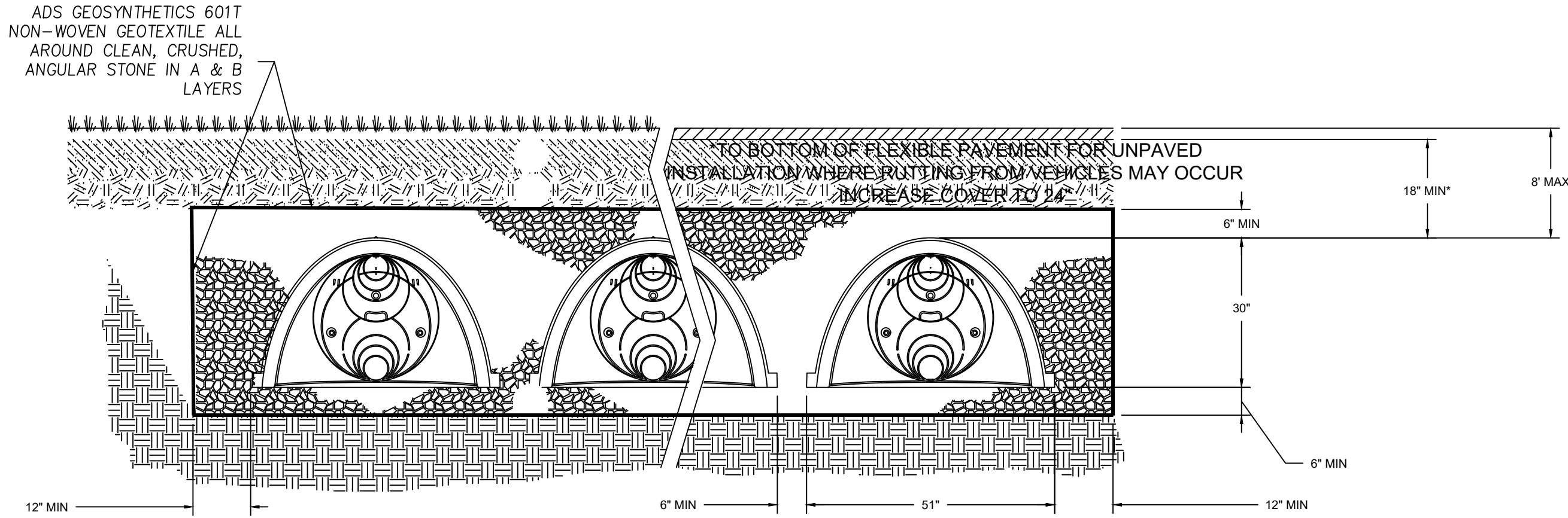
				 MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528
NO.	DATE	DESCRIPTION	BY	DATE: AUG. 11, 2025 CALC. BY: J.T.M. CHKD. BY: S.B.S. PROJECT: M244407



SUBSURFACE AREA	BOT. STONE ELEV.	BOT. CHAMBER ELEV.	TOP CHAMBER ELEV.	TOP STONE ELEV.	100 YR STORM ELEV.
SUB. INF. 1	48.50	49.00	51.50	52.00	51.36
SUB. INF. 2	51.00	51.50	54.00	54.50	54.00
SUB. INF. 3	52.00	52.50	55.00	55.50	54.79
SUB. INF. 4	54.00	54.50	57.00	57.50	57.27
SUB. INF. 6	61.00	61.50	64.00	64.50	63.83

STORMTECH SC 740
INFILTRATION CHAMBER

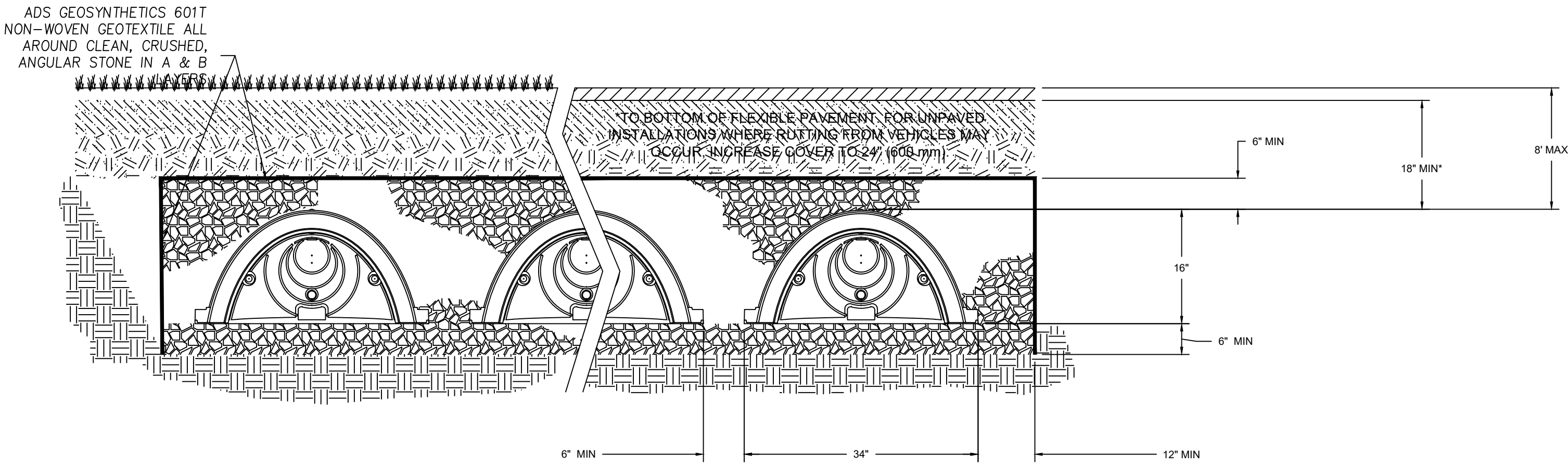
N.T.S.



SUBSURFACE AREA	BOT. STONE ELEV.	BOT. CHAMBER ELEV.	TOP CHAMBER ELEV.	TOP STONE ELEV.	100 YR STORM ELEV.
SUB. DET. 1	60.00	60.50	63.00	63.50	63.25

STORMTECH SC 740
DETENTION CHAMBER

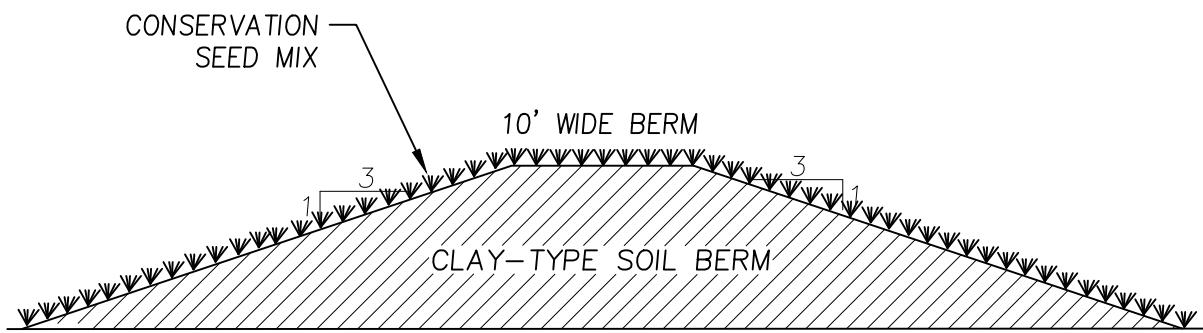
N.T.S.



SUBSURFACE AREA	BOT. STONE ELEV.	BOT. CHAMBER ELEV.	TOP CHAMBER ELEV.	TOP STONE ELEV.	100 YR STORM ELEV.
SUB. INF. 5	59.30	59.80	61.13	61.63	61.65
SUB. INF. 7	60.20	60.70	62.03	62.53	62.45

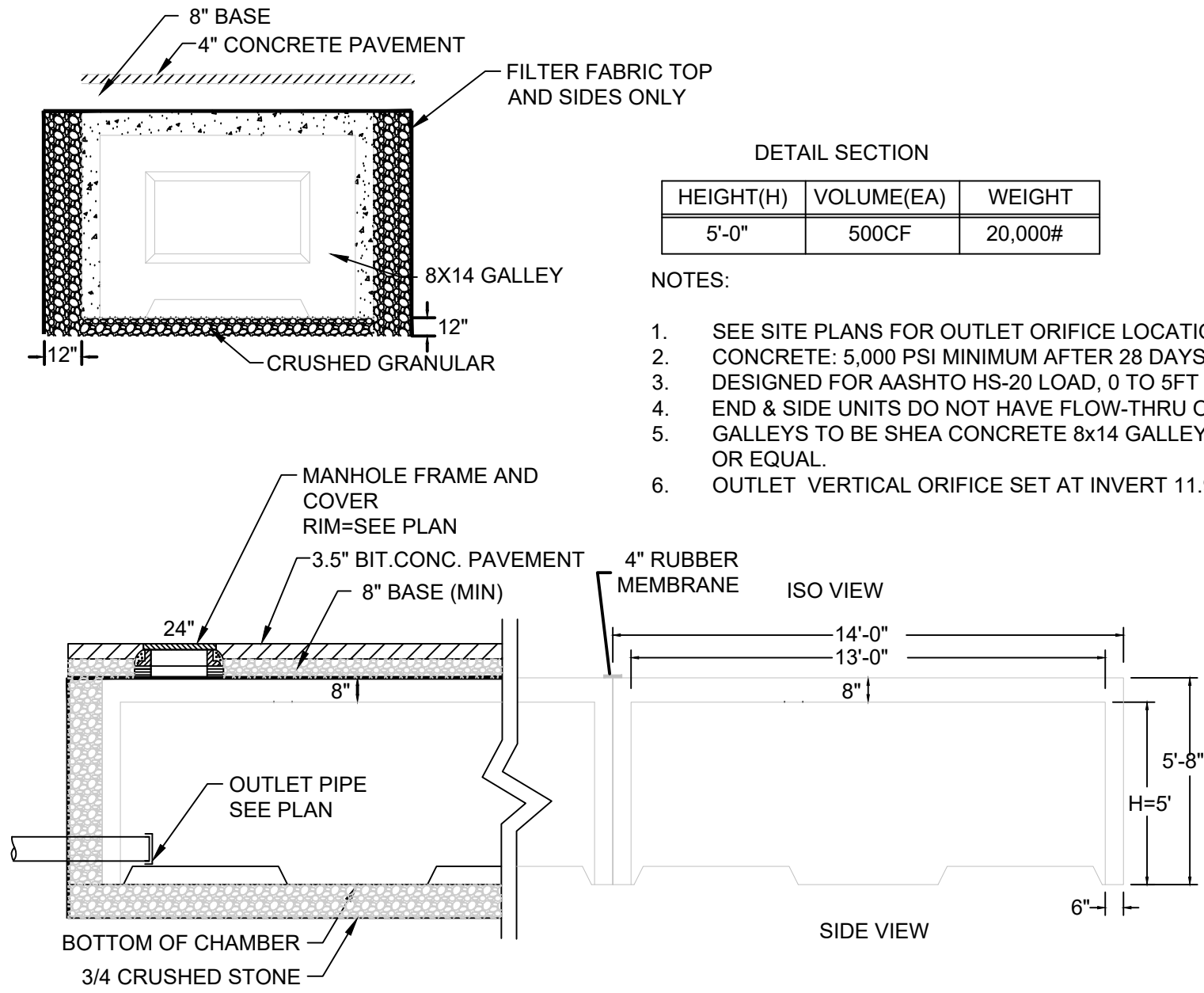
STORMTECH SC 310
INFILTRATION CHAMBER

N.T.S.



INFILTRATION BASIN
BERM DETAIL

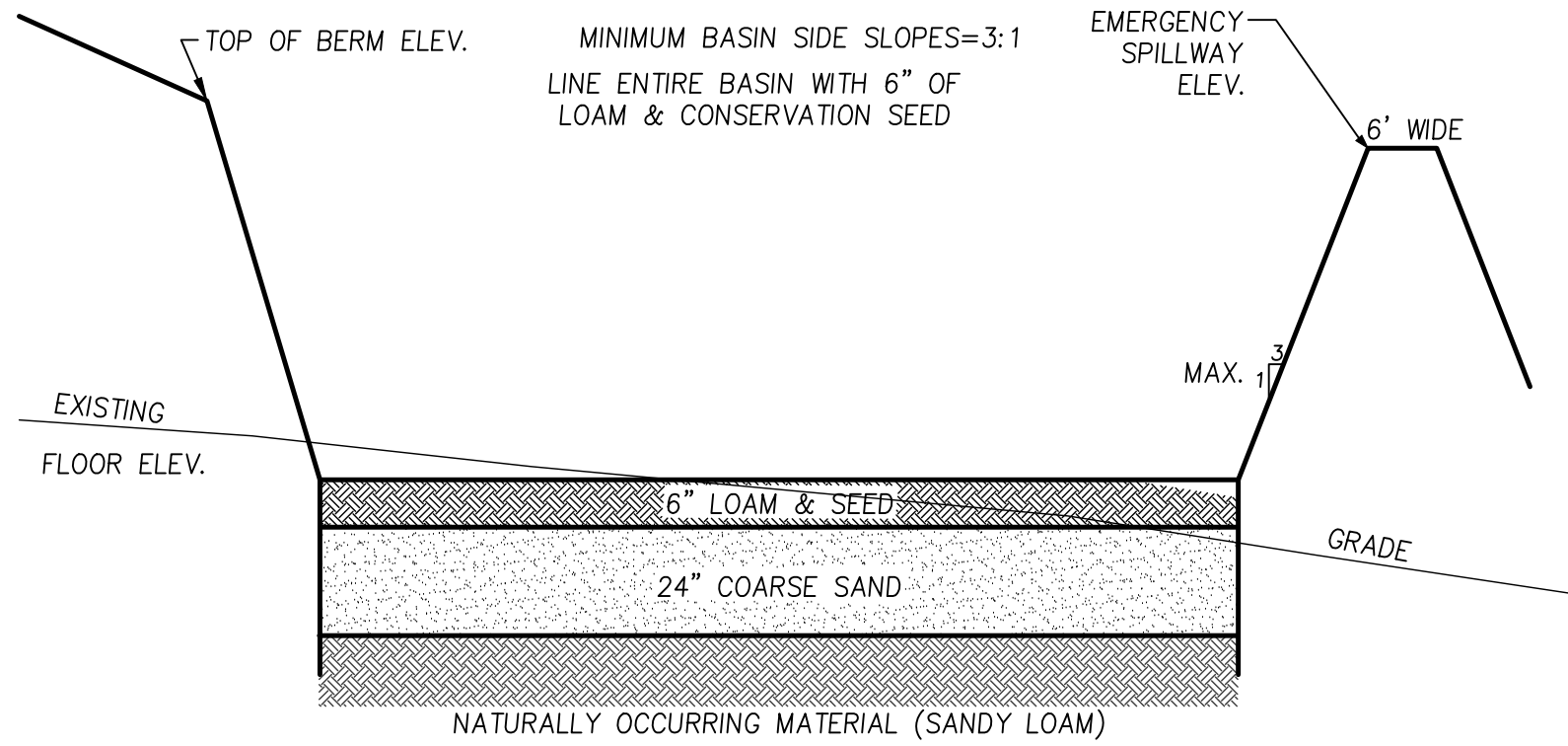
N.T.S.



SUBSURFACE AREA	BOT. STONE ELEV.	BOT. CHAMBER ELEV.	TOP CHAMBER ELEV.	100 YR STORM ELEV.
SUB. DET. 2	57.00	57.50	63.17	62.49
SUB. DET. 3	56.50	57.00	62.67	61.63

SHEA 8'x14'CONCRETE
DETENTION CHAMBER

N.T.S.



INF. BASIN	BOT. BASIN ELEV.	TOP OF BERM ELEV.	EMERGENCY SPILL WAY ELEV.	100 YR STORM ELEV.
INF. BASIN 1	47.00	51.00	50.50	50.15
INF. BASIN 2	49.00	53.00	52.50	52.13
INF. BASIN 3	53.00	57.00	56.50	56.40
INF. BASIN 4	50.00	54.00	53.50	52.18
INF. BASIN 5	57.00	61.00	60.50	60.48

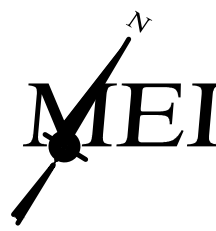
INFILTRATION BASIN
TYP. CROSS-SECTION

HORIZ. SCALE: N.T.S.
VERT. SCALE: 1"=2'



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RYE, NH 03870



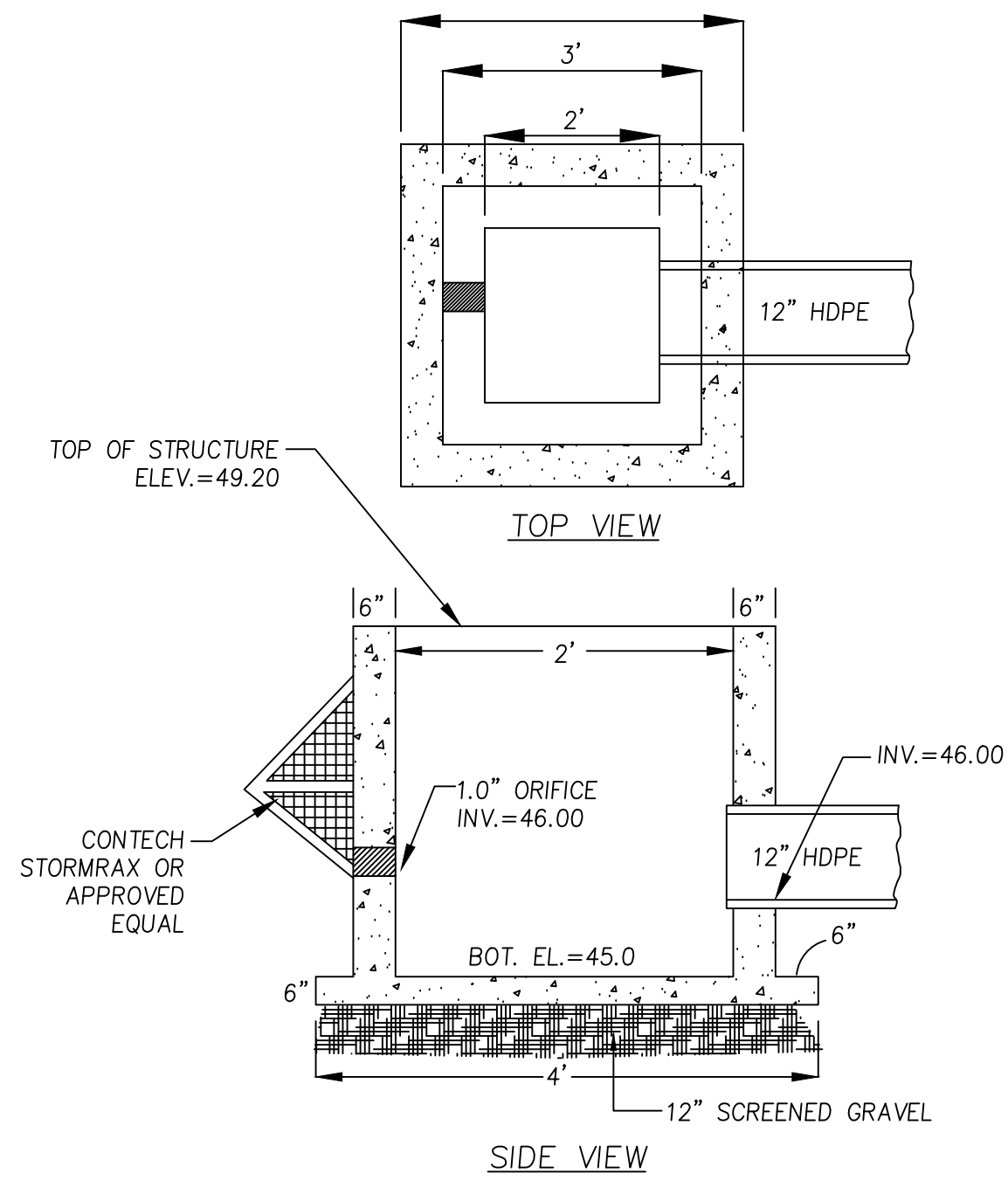
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
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ELM STREET

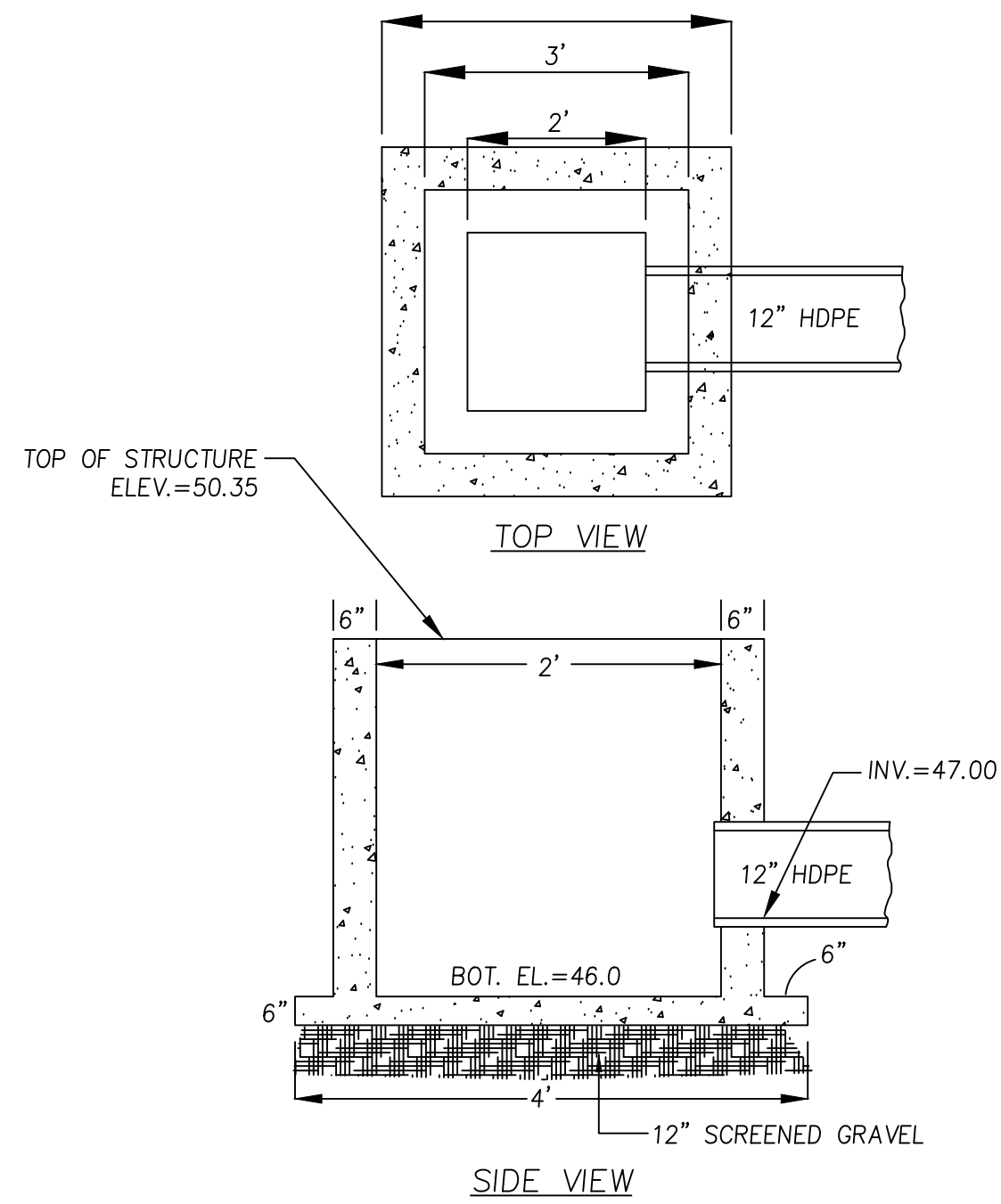
**CONSTRUCTION
DETAILS
- DRAINAGE**

SHEET: C10.2

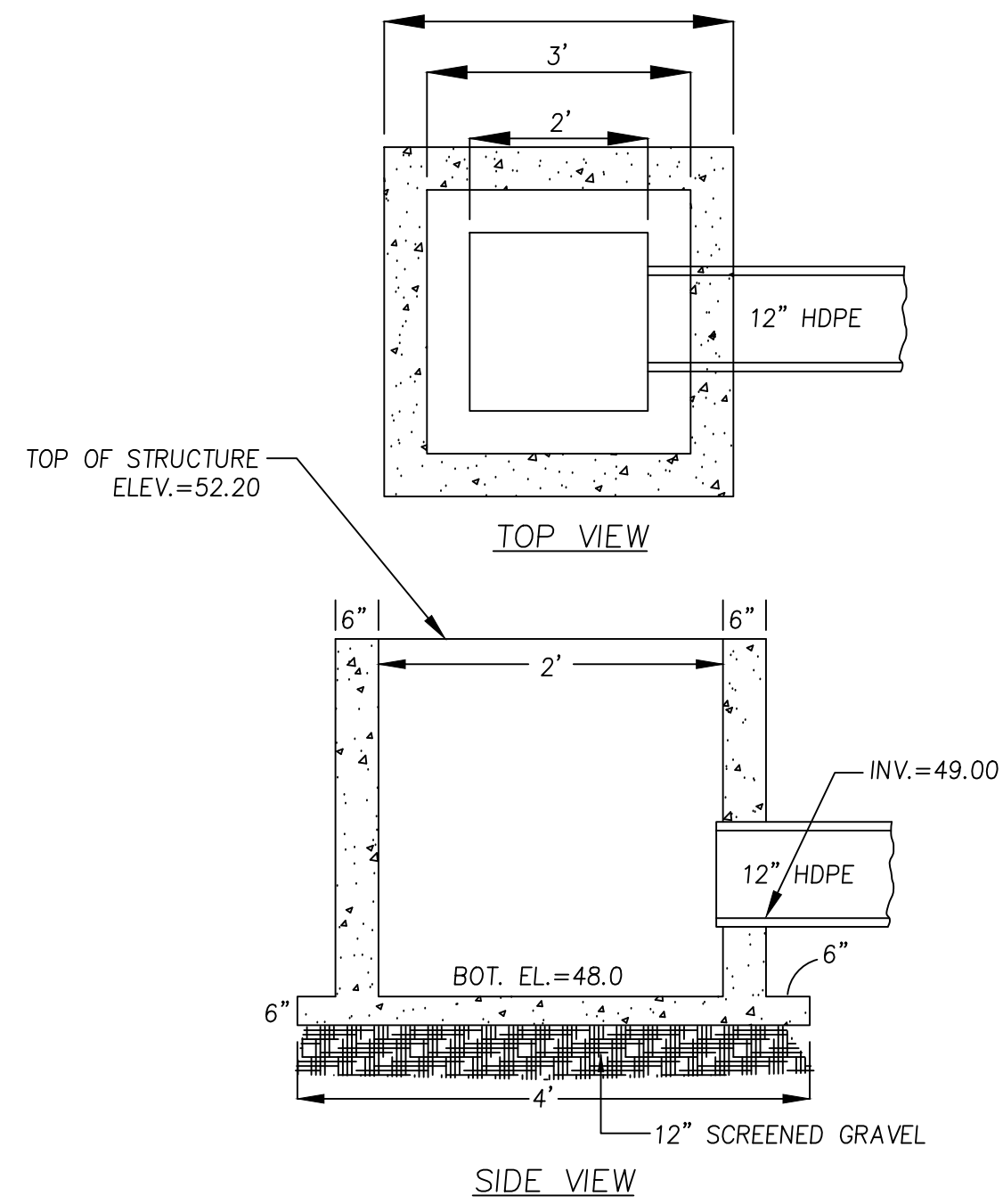
NO.	DATE	DESCRIPTION	BY	DATE:	CALC. BY:	CHKD. BY:	PROJECT:
				AUG. 11, 2025	J.T.M.	S.B.S.	M244407



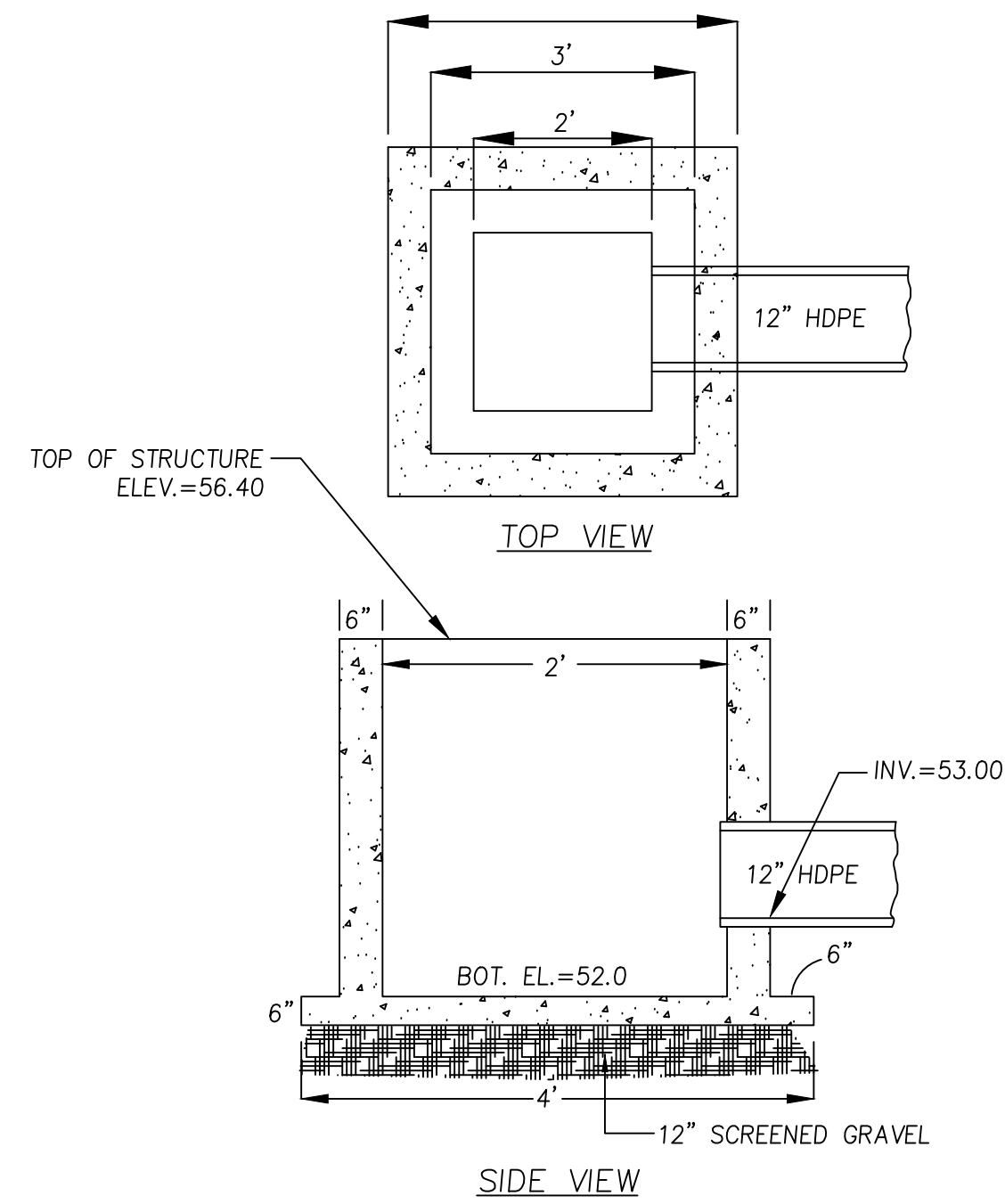
OUTLET CONTROL STRUCTURE 1
DETAIL N.T.S.



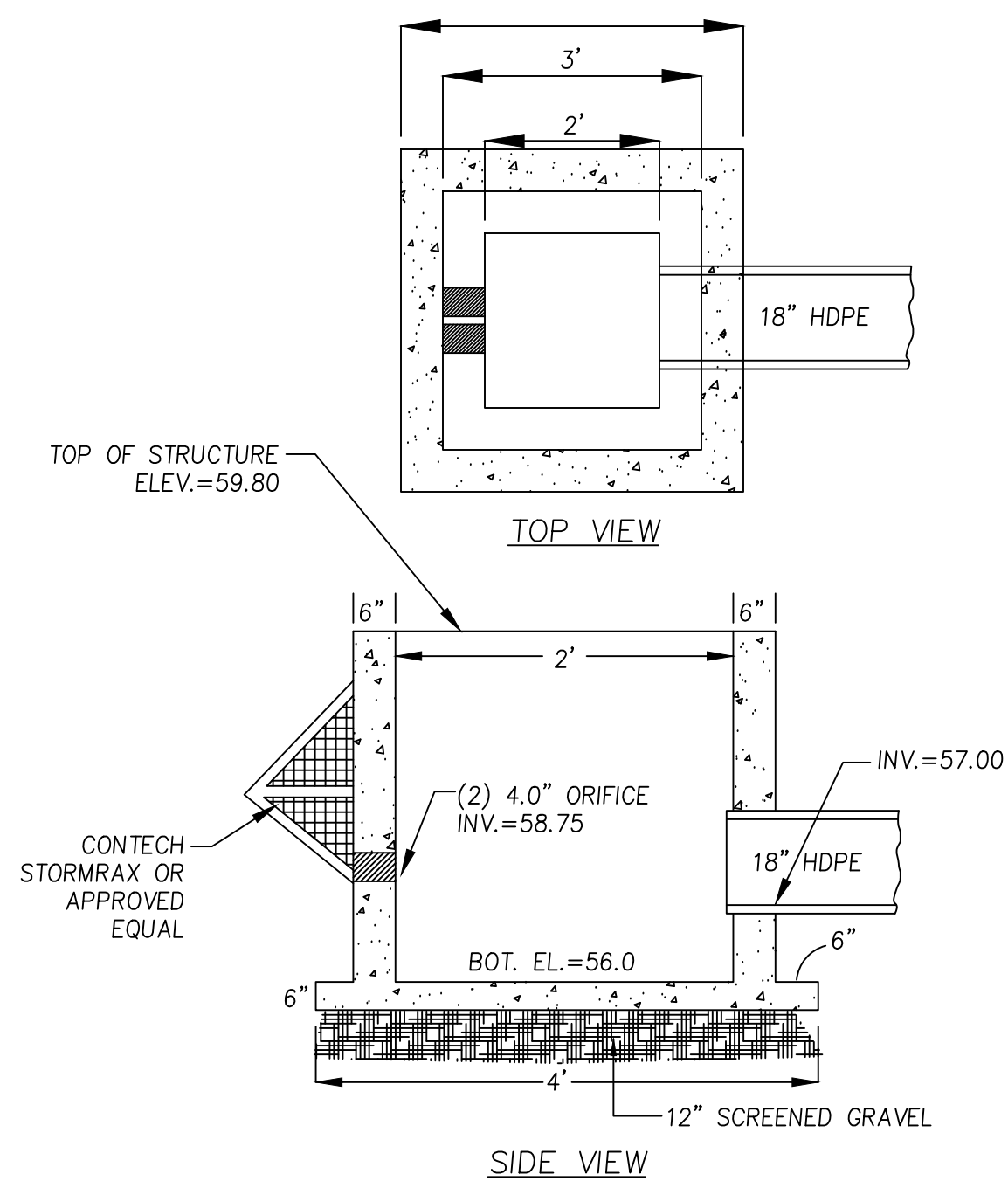
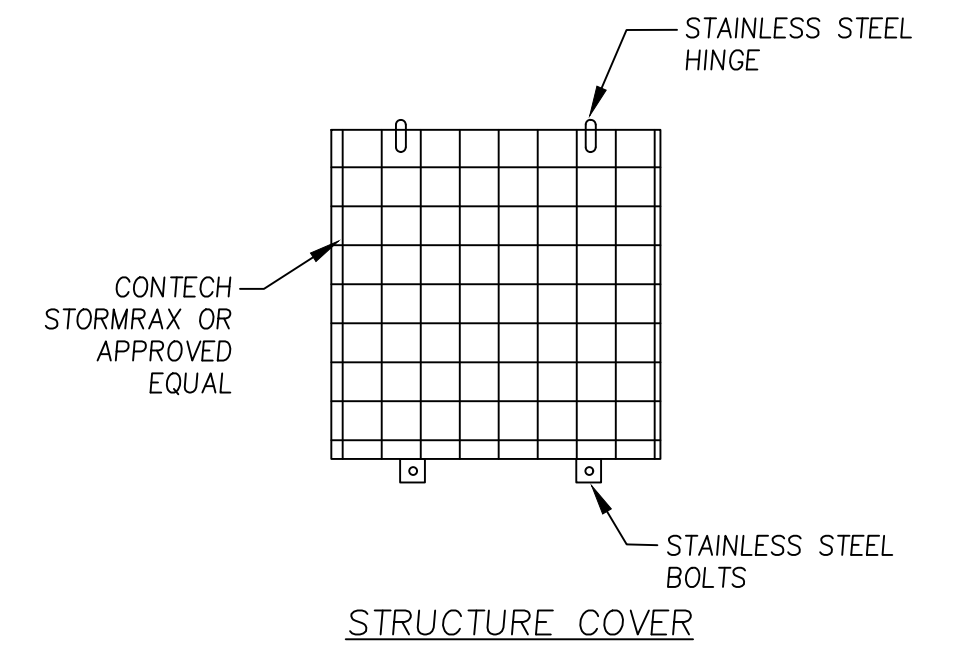
OUTLET CONTROL STRUCTURE 2
DETAIL N.T.S.



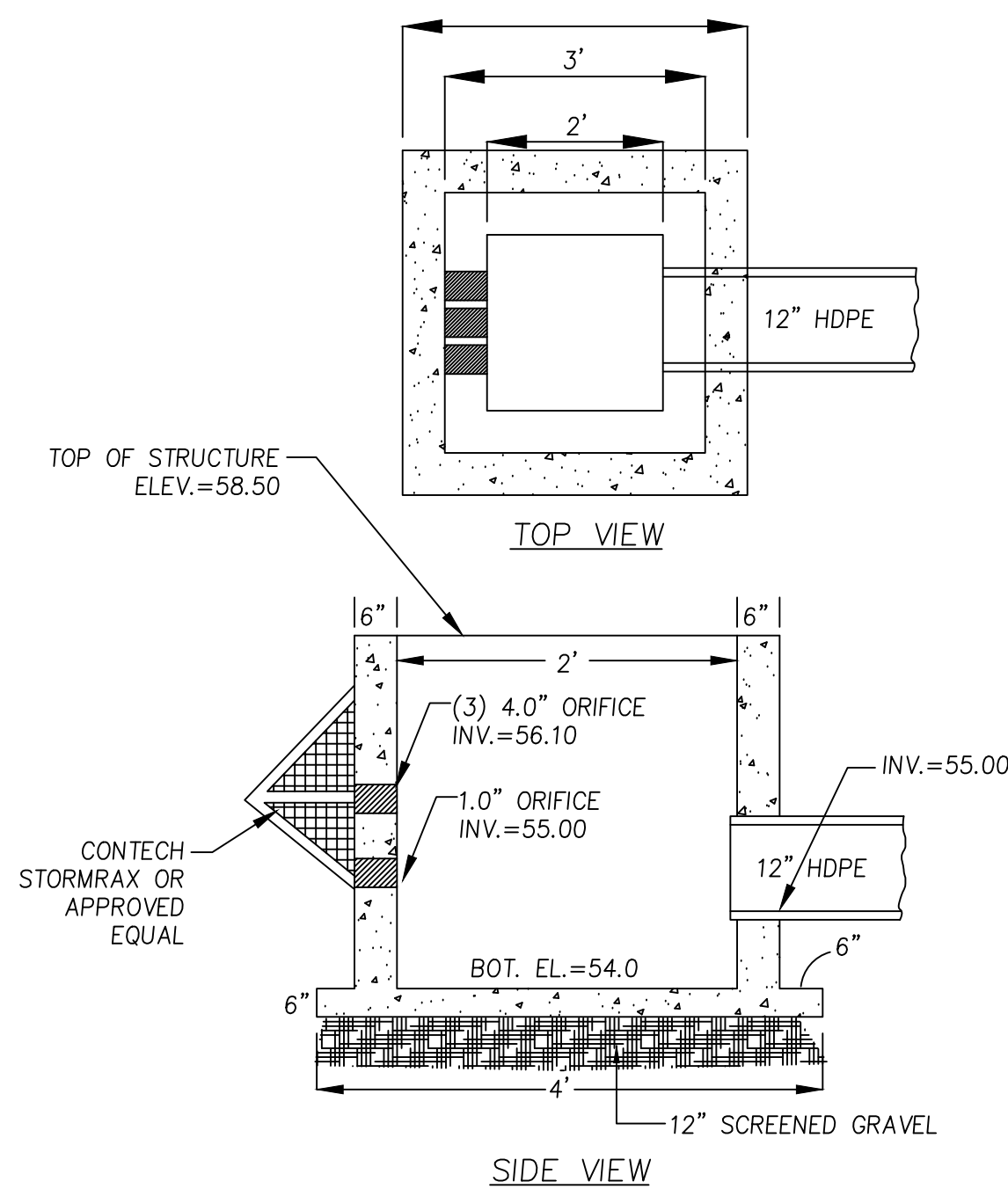
OUTLET CONTROL STRUCTURE 4
DETAIL N.T.S.



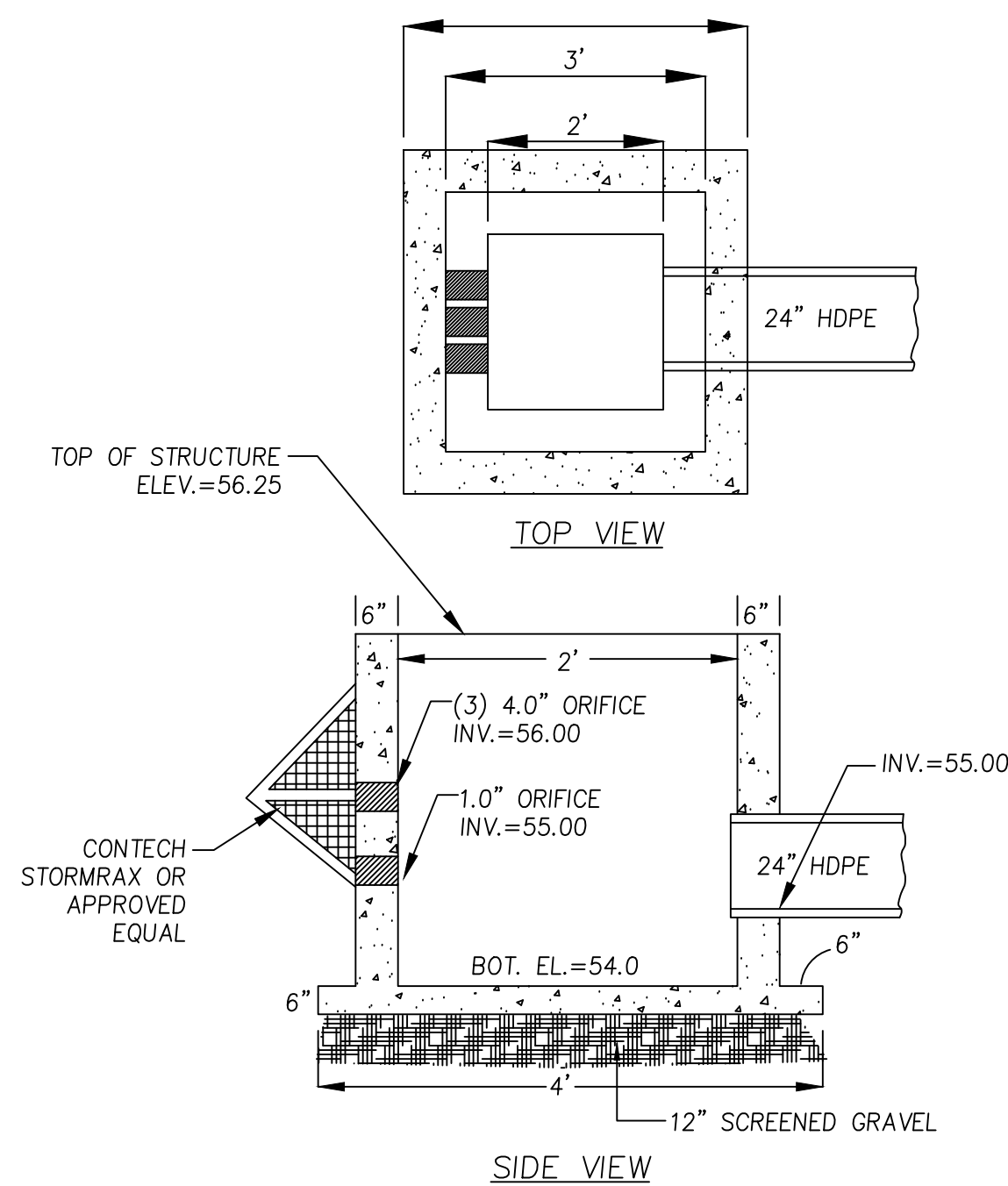
OUTLET CONTROL STRUCTURE 5
DETAIL N.T.S.



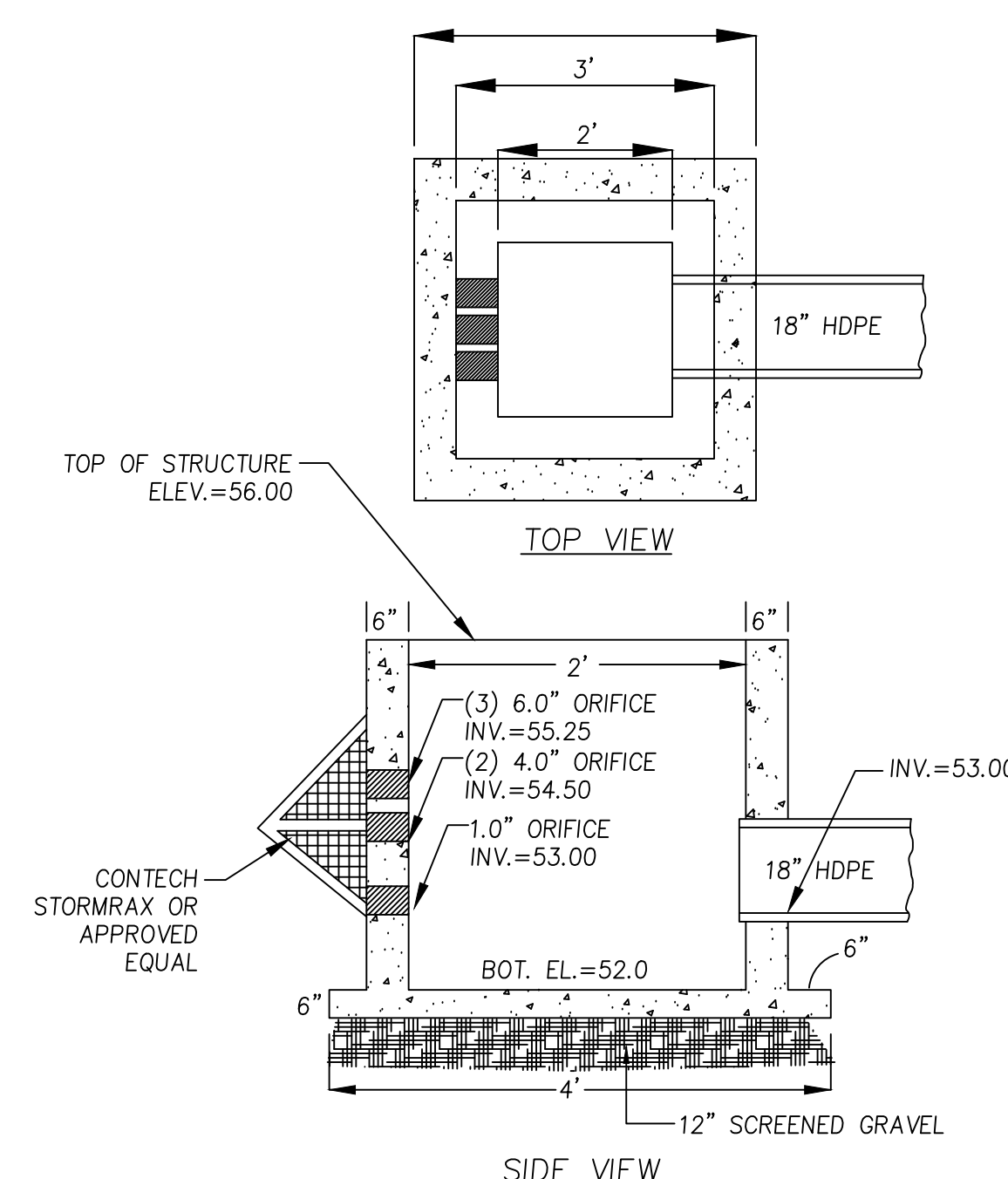
OUTLET CONTROL STRUCTURE 10
DETAIL N.T.S.



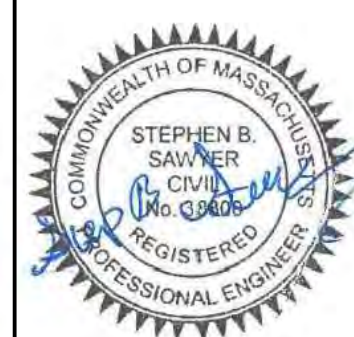
OUTLET CONTROL STRUCTURE 11
DETAIL N.T.S.



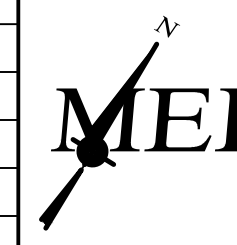
OUTLET CONTROL STRUCTURE 12
DETAIL N.T.S.



OUTLET CONTROL STRUCTURE 13
DETAIL N.T.S.



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ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

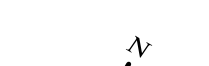
**CONSTRUCTION
DETAILS
- DRAINAGE**

SHEET: C10.4

NO.	DATE	DESCRIPTION	BY

DATE: AUG. 11, 2025	CALC. BY: J.T.M.	PROJECT: M244407
	CHKD. BY: S.B.S.	



	MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM. ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528		
	DATE: AUG. 11, 2025	CALC. BY: J.T.M. CHKD. BY: S.B.S.	PROJECT: M244407

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

CONSTRUCTION
DETAILS
- DRAINAGE

SHEET: C10.5

GENERAL NOTES

LEGEND		
EXISTING	PROPOSED	
	CB	CATCH BASIN (OR GUTTER INLET, OR LEACHING BASIN)
	CBCI (OR GCI)	CATCH BASIN (OR GUTTER INLET) WITH CURB INLET
		EDGE OF ROAD
		CONTOUR
		SEWER MANHOLE
		DRAINAGE MANHOLE
		GAS GATE
		WATER GATE
		SEPTIC TANK
		HYDRANT
	FA	FIRE ALARM BOX
		POST MOUNTED PEDESTRIAN LIGHT
		UTILITY POLE
	D	DRAIN PIPE
	S	SEWER MAIN
	S	SEWER FORCE MAIN
	UE	UNDERGROUND ELECTRIC
	W	WATER MAIN
	MB	MAIL BOX
		HIGHWAY GUARD (TYPE NOTED)
	x	FENCE (SIZE AND TYPE NOTED)
		EASEMENT LINE
		PROPERTY LINE
		100 FT BUFFER ZONE
	PC 8 N00°00'00"E +12.34	BASE OR SURVEY LINE CONSTRUCTION BASELINE
		WHEELCHAIR RAMP (WCR)
		CONCRETE SIDEWALK
		HAND CORE
	SF	SILT SOCK
		WETLAND
		INFILTRATOR

1. THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS. ANY PROPOSED REVISIONS TO THE WORK SHALL NOT BE UNDERTAKEN UNTIL REVIEWED AND APPROVED BY THE OWNER AND REGULATING CITY AND/OR STATE AGENCIES.
2. THE CONTRACTOR SHALL INSTALL ALL SYSTEM COMPONENTS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND ALL APPLICABLE ELECTRICAL, PLUMBING, AND SANITARY CODES.
3. ALL WORK SHALL CONFORM TO: THE AMESBURY PLANNING BOARD RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, AMESBURY CONSERVATION COMMISSION ORDER OF CONDITIONS, NPDES CONSTRUCTION GENERAL PERMIT; AND THESE PLANS.
4. THE LOCATION OF ALL UTILITIES, AS SHOWN ON THESE PLANS, ARE BASED UPON PLANS AND RECORD INFORMATION PROVIDED BY MUNICIPAL AND PRIVATE UTILITY COMPANIES AND ARE CONSIDERED APPROXIMATE BOTH AS TO SIZE AND LOCATION. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL NOT RELY ON THESE PLANS FOR SUCH INFORMATION AND WILL MAKE EXAMINATIONS IN THE FIELD BY VARIOUS AVAILABLE RECORDS, UTILITY COMPANIES AND INDIVIDUALS, AS TO THE LOCATION OF ALL SUBSURFACE STRUCTURES.
5. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BY CONTACTING "DIG-SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION. DIG-SAFE TELEPHONE NUMBER: 1-888-344-7233.
6. THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE NEW WORK. HE/SHE SHALL EXCAVATE TO VERIFY PERTINENT DRAINAGE INVERTS AND POTENTIAL UTILITY CONFLICTS. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER IMMEDIATELY.
7. ALL EXISTING STRUCTURES AND SURFACES, UNLESS OTHERWISE SHOWN, SHALL BE COMPLETELY REMOVED FROM THE AREAS OF WORK. ALL TREES SCHEDULED FOR REMOVAL SHALL BE FIELD MARKED AND APPROVED FOR REMOVAL BY THE OWNER PRIOR TO CUTTING OPERATIONS.
8. THE CONTRACTOR IS RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THE PUBLIC, EMPLOYEES, AND ALL OTHER PERSONS ASSOCIATED WITH THE PROJECT. HE/SHE SHALL COORDINATE AND BE RESPONSIBLE FOR ALL SAFETY SIGNING, BARRIERS AND TEMPORARY PAVEMENT MARKINGS NECESSARY TO PROVIDE A SMOOTH AND PROPER TRANSITION FOR TRAFFIC FLOW.
9. IF REQUIRED BY THE CONTRACTOR, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTORS EXPENSE.

10. ALL SEWER MAINS AND SERVICES SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY OR 18 INCHES VERTICALLY FROM PROPOSED WATER MAINS AND SERVICES AND SHALL MAINTAIN 5 FEET OF COVER OVER THE TOP OF THE PIPING, UNLESS OTHERWISE SHOWN OR APPROVED. PIPES SHALL BE ENCASED IN CONCRETE WHERE THIS SEPARATION CANNOT BE OBTAINED.
11. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 5 FEET OF COVER OVER THE TOP OF THE PIPE, UNLESS OTHERWISE SHOWN OR APPROVED.
12. WHENEVER SEWER MAINS MUST CROSS WATER MAINS, THE SEWER SHALL BE CONSTRUCTED AS FOLLOWS; A) JOINTS SHALL BE MECHANICAL TYPE WATER PRESSURE RATED WITH ZERO LEAKAGE WHEN TESTED AT 25 PSI FOR GRAVITY SEWERS AND 1.5 TIMES WORKING PRESSURE FOR FORCE MAINS AND JOINTS NOT TO BE LOCATED WITHIN 9 FEET OF THE CROSSING; B) SEWER SERVICES SHOULD BE INSTALLED A MINIMUM OF 18 INCHES BELOW WATER MAINS. IF SEPARATION IS LESS THAN 18 INCHES, SEWER SERVICE SHALL BE CONCRETE ENCASED OR CONSTRUCTED WITH PRESSURE CLASS PVC FOR A DISTANCE OF 10 FEET EACH SIDE OF THE WATER MAIN. 10-FOOT MINIMUM HORIZONTAL SEPARATION DISTANCE SHALL BE MAINTAINED.
13. INDIVIDUAL BUILDING OWNERS ARE RESPONSIBLE FOR MAINTENANCE OF THEIR SEWER SERVICE FROM THE BUILDING TO THE CONNECTION AT THE SEWER MAIN.
14. ALL STREET, WARNING, AND REGULATORY SIGNS SHALL BE IN CONFORMANCE WITH THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND STANDARD SPECIFICATIONS AND LATEST ADDENDA.
15. NO CONSTRUCTION SHALL TAKE PLACE UNTIL THE OWNER/DEVELOPER HAS RECEIVED WRITTEN APPROVAL OF THIS PLAN FROM THE CITY.
16. 14 DAYS PRIOR TO COMMENCING CONSTRUCTION, THE OWNER/DEVELOPER SHALL PRESENT A CONSTRUCTION SCHEDULE TO THE CITY.
17. TWO HARD COPIES OF AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE CITY UPON COMPLETION OF THE PROJECT. ONE SOFT COPY OF THE AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE TOWN WITHIN 30 CALENDAR DAYS OF RECEIVING ANY OCCUPANCY PERMIT FROM THE TOWN. SOFT COPIES SHALL BE PROVIDED ON A CD. AS-BUILTS SHALL INCLUDE ALL LANDSCAPE AND UTILITIES INFORMATION. ANY AND ALL CHANGES FROM THE PREVIOUSLY APPROVED PLANS AND SPECIFICATIONS SHOULD BE HIGHLIGHTED FOR EASE OF REVIEW.
18. COMPETENT SUPERVISION SHALL BE PROVIDED BY THE CONTRACTOR DURING CONSTRUCTION ACTIVITIES.
19. ONSITE BURIAL OF STUMPS OR ANY OTHER DEBRIS IS PROHIBITED.
20. THE PROPERTY DOES NOT LIE WITHIN THE 100-YEAR FLOOD PLAIN ACCORDING TO FEMA AND IT DOES NOT LIE WITHIN A ZONE II WELLHEAD PROTECTION AREA.
21. ALL ELEVATIONS ARE BASED ON N.A.V.D. 1988.

MATERIAL NOTES

ALL MATERIALS OF THE ELEMENTS IN THE SITE PLAN MUST CONFORM TO THE FOLLOWING STANDARDS:

SPECIFICATIONS BY THE CITY OF AMESBURY AS SET FORTH IN THE RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

AMERICAN WATER WORKS ASSOCIATION (AWWA)

521 CMR RULES AND REGULATIONS OF THE ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICANS WITH DISABILITIES ACT (ADA)

ROADWAY NOTES

- 1.) ALL STUMPS, ROCKS AND LEDGE WITHIN THE LIMITS OF THE PROPOSED PAVED WAY SHALL BE REMOVED. ALL LEDGE SHALL BE REMOVED TO A MINIMUM DEPTH OF 2' BELOW FINISHED PAVEMENT GRADE.
- 2.) ROADWAY SHALL NOT BE CONSTRUCTED DURING FREEZING WEATHER OR ON WET OR FROZEN SUBGRADE.
- 3.) GRADING AND ROLLING SHALL BE REQUIRED TO PROVIDE A SMOOTH, EVEN, AND UNIFORM COMPACTED BASE WHICH IS COMPACTED TO A MINIMUM DRY DENSITY OF 95 PERCENT.
- 4.) THE MINIMUM SLOPE FROM THE CROWN OF FINISHED BASE COURSE SHALL BE 1/4"PER FOOT UNLESS OTHERWISE SHOWN.
- 5.) ALL UNSUITABLE MATERIAL SHALL BE EXCAVATED AND REPLACED WITH SATISFACTORY MATERIAL AND BROUGHT UP TO GRADE WITH GRAVEL BORROW CONTAINING NO STONES GREATER THAN 6" DIAMETER.
- 6.) AT ALL TIMES DURING CONSTRUCTION, THE SUB-GRADE AND ALL DITCHES SHALL BE CONSTRUCTED AND MAINTAINED SO THAT THE ROADWAY WILL EFFECTIVELY BE DRAINED.
- 7.) THE CONTRACTOR SHALL REFER TO THE MERRMAC RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, ARTICLE 5.

SIDEWALK NOTES

SIDEWALKS SHALL BE FIVE FEET IN WIDTH FOR THEIR ENTIRE LENGTH, WITH A 1% CROSS SLOPE (1.5% MAX).

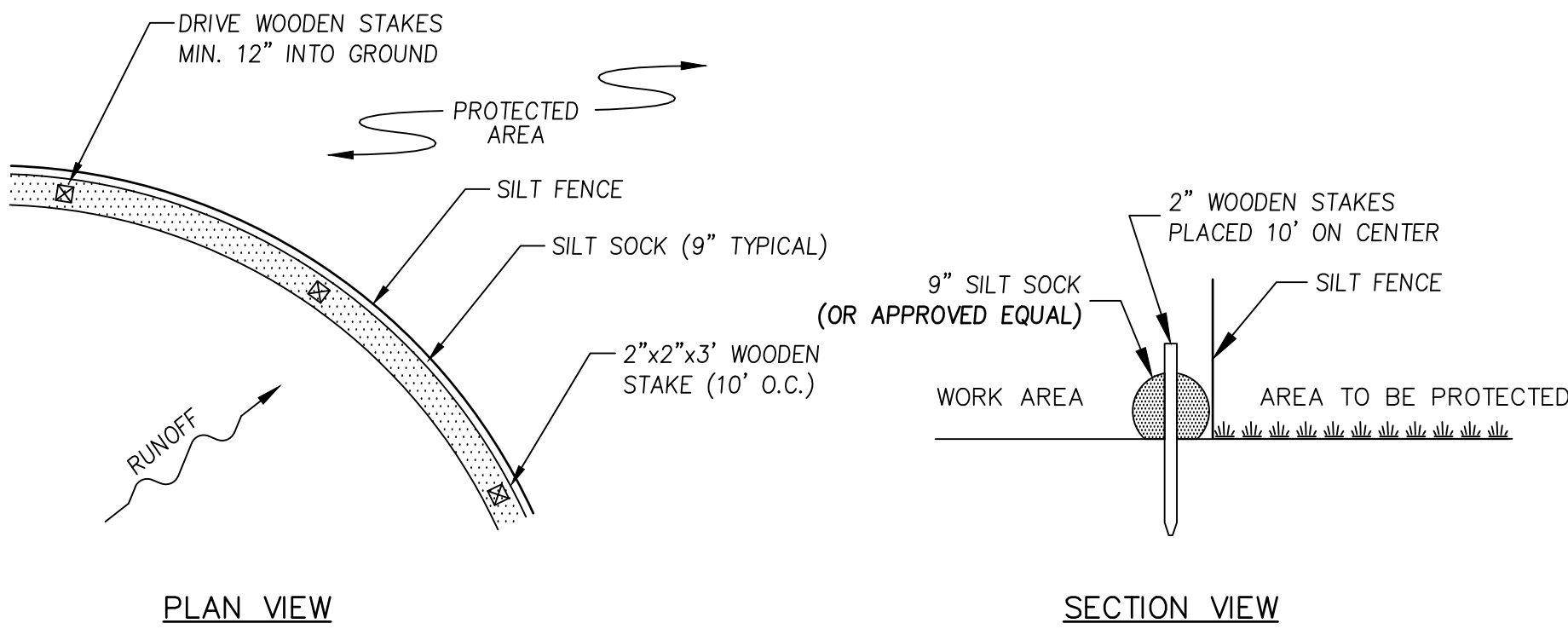
SIDEWALKS SHALL BE CONSTRUCTED WITH A 1.5" TYPE I-1 BITUMINOUS CONCRETE FINISH COURSE, A 1.5" TYPE I-1 BITUMINOUS CONCRETE BINDER COURSE OVER A 12" GRAVEL BASE (MDOT M1.03.0 TYPE C).

WHERE SIDEWALKS TRAVERSE A DRIVEWAY, THE GRAVEL BASE SHALL BE 12" THICK.

SURVEY

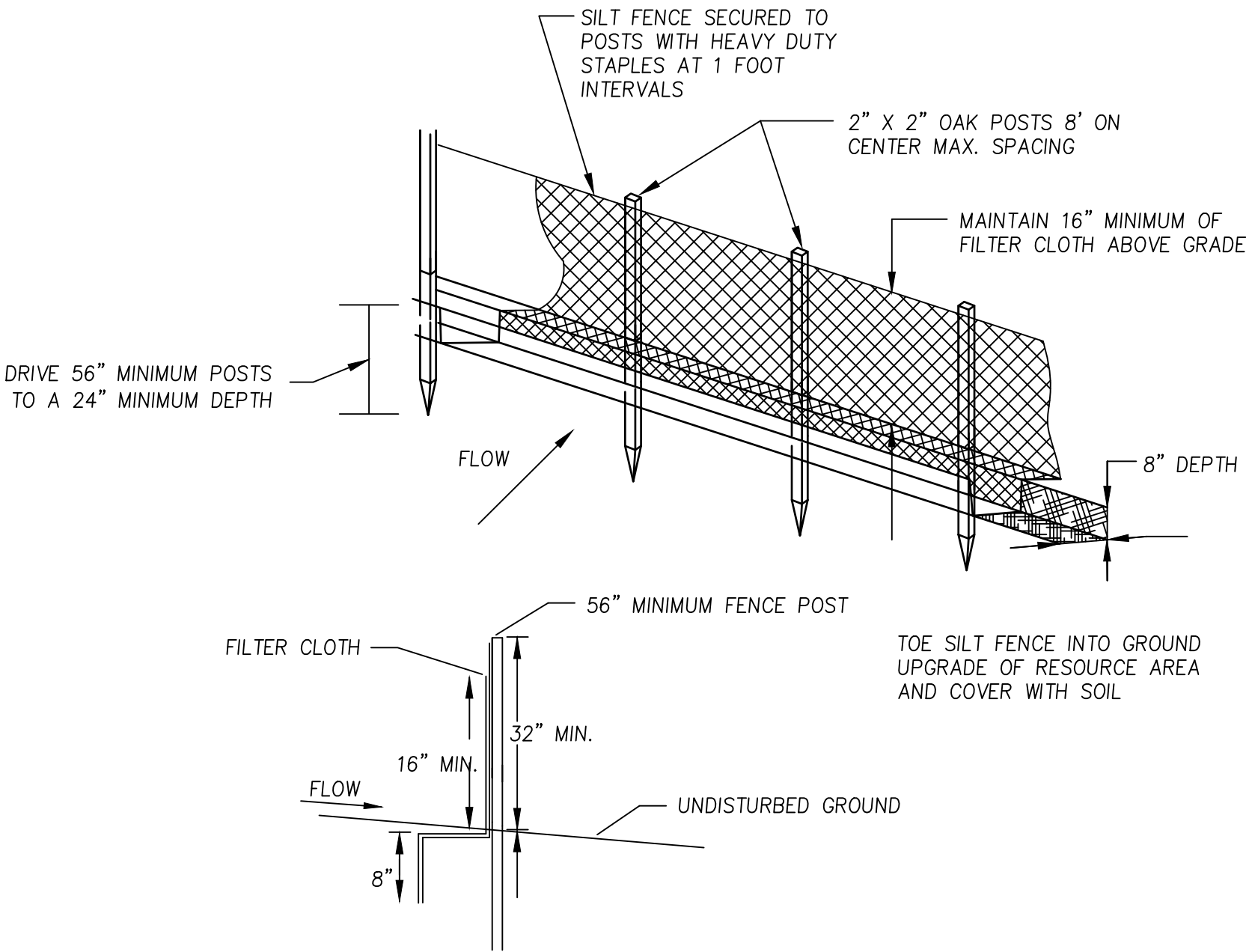
120		WETLAND DELINEATION FLAG
		CONCRETE BOUND
		STONE BOUND
		DRILL HOLE
		MASONRY NAIL
		IRON PIPE
		IRON ROD
		FOUND
		NOT FOUND
		ASSESSORS MAP AND PARCEL

			PREPARED FOR DALE DEVELOPMENT, LLC 360 WASHINGTON STREET RYE, NH 03870					MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528	CALC. BY: J.T.M. CHKD. BY: S.B.S.	PROJECT: M244407	ROCKY HILL MBTA COMMUNITY IN AMESBURY, MA AT ELM STREET	TYPICAL SECTIONS/ LEGEND/ GENERAL NOTES SHEET: C2.0
				NO.	DATE	DESCRIPTION	BY	DATE: AUG. 11, 2025				



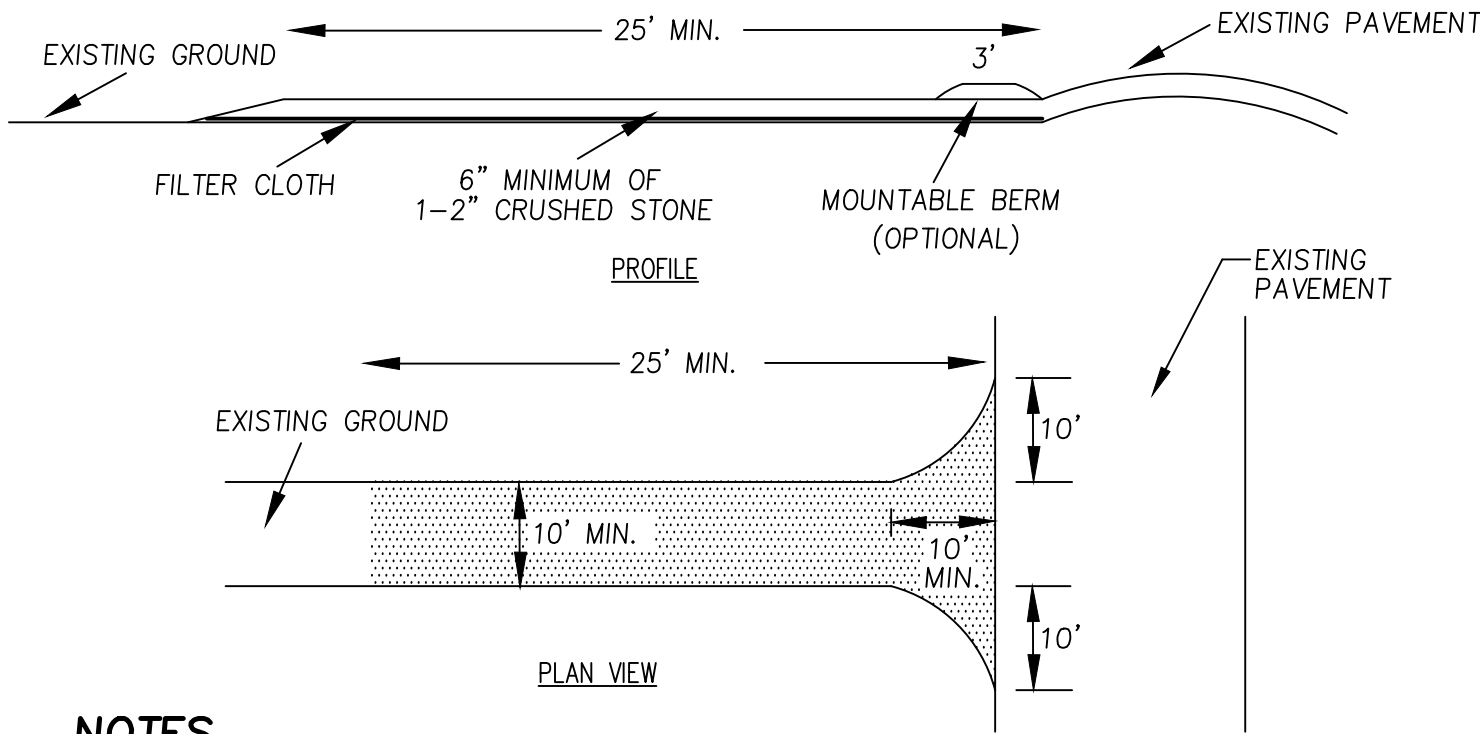
- NOTES**
- ALL MATERIAL SHALL MEET SPECIFICATIONS BY FILTREXX OR APPROVED EQUAL.
 - SILT SOCK SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
 - THE CONTRACTOR SHALL REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE SILT SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE SILT SOCK.
 - SILT SOCK SHALL BE MAINTAINED UNTIL DISTURBED AREA ABOVE THE DEVICE HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
 - SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE SOCK HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SILT SOCK INSTALLATION
DETAIL N.T.S.



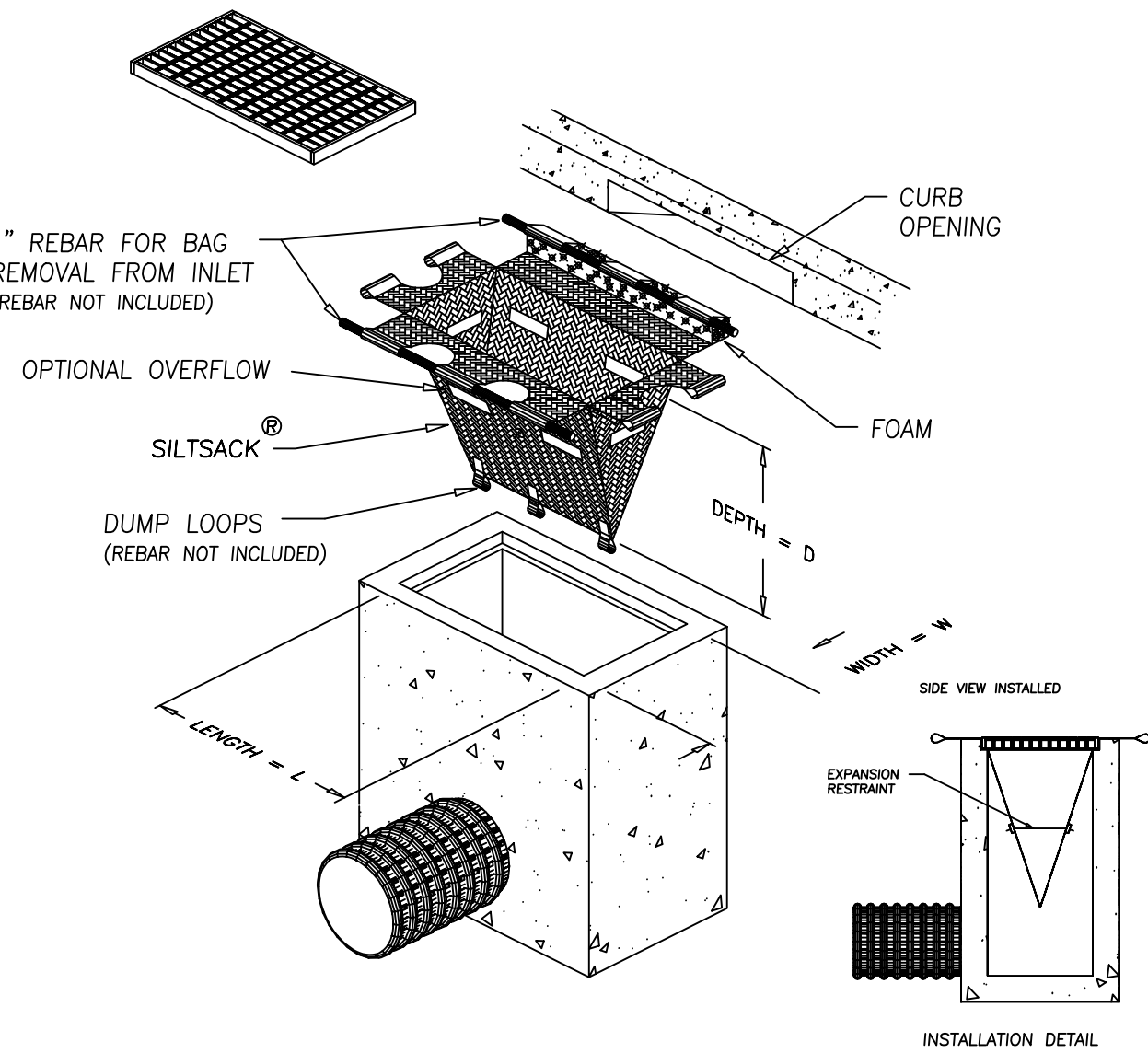
- POSTS SHALL BE DOUBLED AND COUPLED AT FILTER CLOTH SEAMS.
- FILTER CLOTH TO BE FASTENED SECURELY TO SUPPORT NETTING WITH TIES SPACED EVERY 24" AT TOP, MID SECTION, AND BOTTOM.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE
INSTALLATION N.T.S.



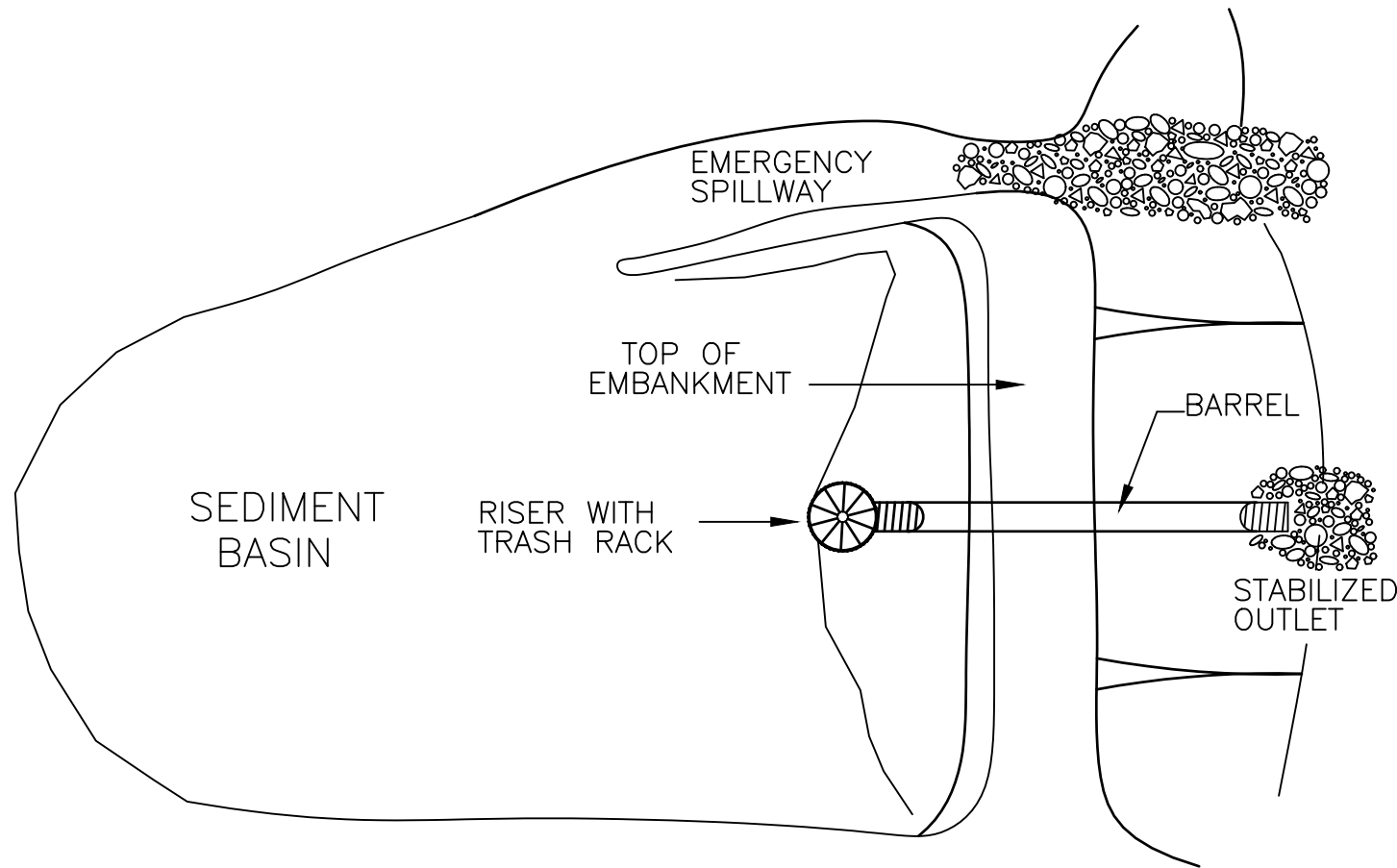
- NOTES**
- STONE SHALL BE 1-1/2"-2" STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
 - THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 25'.
 - THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6".
 - GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
 - ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP-DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED PROMPTLY.
 - WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

STABILIZED CONSTRUCTION
ENTRANCE N.T.S.

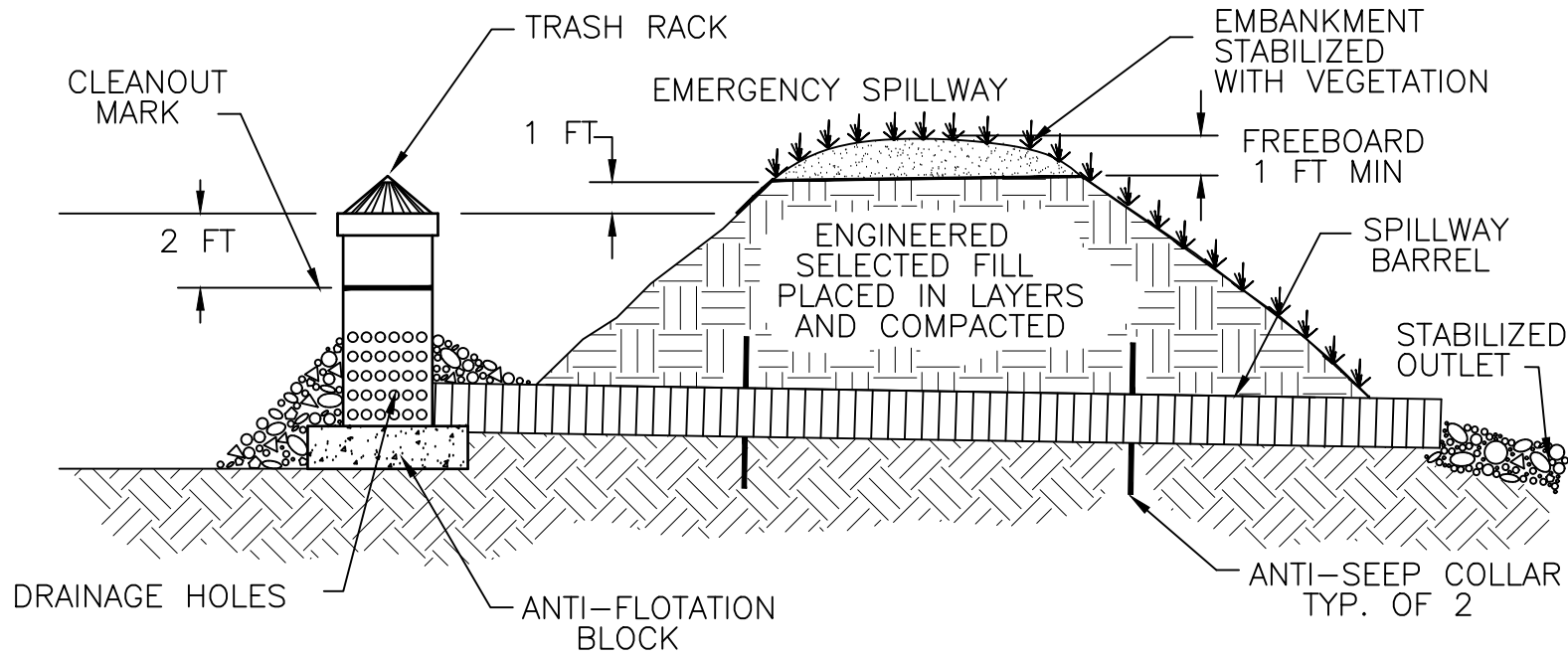


- NOTES**
- TO INSTALL SILTSACK IN THE CATCH BASIN, REMOVE THE GRATE AND PLACE THE SACK IN THE OPENING. HOLD APPROXIMATELY SIX INCHES OF THE SACK OUTSIDE THE FRAME. THIS IS THE AREA OF THE LIFTING STRAPS. REPLACE THE GRATE TO HOLD THE SACK IN PLACE.
 - WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, SILTSACK IS FULL AND SHOULD BE EMPTIED.
 - TO REMOVE SILTSACK, TAKE TWO PIECES OF 1" DIAMETER REBAR AND PLACE THROUGH THE LIFTING LOOPS ON EACH SIDE OF THE SACK TO FACILITATE THE LIFTING OF SILTSACK.
 - TO EMPTY SILTSACK, PLACE UNIT WHERE THE CONTENTS WILL BE COLLECTED. PLACE THE REBAR THROUGH THE LIFT STRAPS (CONNECTED TO THE BOTTOM OF THE SACK) AND LIFT. THIS WILL LIFT SILTSACK FROM THE BOTTOM AND EMPTY THE CONTENTS. CLEAN OUT AND RINSE. RETURN SILTSACK TO ITS ORIGINAL SHAPE AND PLACE BACK IN THE BASIN.
 - SILTSACK IS REUSABLE. ONCE THE CONSTRUCTION CYCLE IS COMPLETE, REMOVE SILTSACK FROM THE BASIN AND CLEAN. SILTSACK SHOULD BE STORED OUT OF SUNLIGHT UNTIL NEXT USE.

SILT SACK
DETAIL N.T.S.



PLAN



SECTION

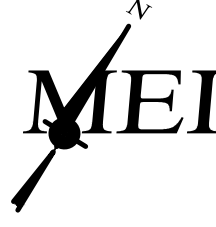
SEDIMENT BASIN
DETAIL N.T.S.

GENERAL EROSION
CONTROL NOTES

- ALL SILT FENCE SHALL BE INSTALLED BEFORE THE START OF CONSTRUCTION. SILT FENCE SHALL BE REMOVED UPON COMPLETION OF THE PROJECT AND STABILIZATION OF ALL SOIL.
- ALL FILL SHALL BE FREE OF STUMPS AND LARGE STONES.
- ANY STANDING BODIES OF WATER CREATED DURING EXCAVATION SHALL BE ELIMINATED.
- EROSION CONTROL BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.5" OF RAINFALL AND PROMPTLY REPAIRED OR REPLACED AS NECESSARY.
- ACCUMULATED SEDIMENT DEPOSITS UPSTREAM OF BARRIERS SHALL BE PROPERLY DISPOSED OF ON A REGULAR BASIS.
- AREAS OUTSIDE THE LIMITS OF WORK (EROSION CONTROL/SILT FENCE LOCATIONS) DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND/OR SEDIMENT CONTROLS DURING CONSTRUCTION. HE/SHE SHALL INSPECT CONTROLS WEEKLY AND AFTER ALL STORM EVENTS. REPAIRS, IF REQUIRED, SHALL BE MADE IMMEDIATELY.
- TEMPORARY GROUND COVER SHALL BE ESTABLISHED IN AREAS OF CONSTRUCTION WHERE REQUIRED BY THE AMESBURY PLANNING BOARD AND CONSERVATION COMMISSION.
- ANY DISTURBED AREAS OF THE SITE NOT USED FOR ROADWAY OR UTILITY CONSTRUCTION SHALL BE STABILIZED WITH LOAM AND SEED UNTIL FURTHER DISTURBANCE IS REQUIRED FOR BUILDING CONSTRUCTION.
- THE CONTRACTOR SHALL IDENTIFY TO THE TOWN HIS/HER TOPSOIL STOCKPILING OPERATIONS AND LOCATIONS.
- PROVIDE GRAVEL AND WIRE MESH SEDIMENT FILTER AT ALL CATCH BASINS.
- A MINIMUM OF 6" OF LOAM SHALL BE INSTALLED ON ALL DISTURBED UNPAVED SURFACES.
- SEED MIX SHALL BE NO LESS THAN 4 LBS./1000 S.F. OF LAND AREA. SEED SHALL CONSIST OF A MAXIMUM OF 10% RYE GRASS AND A MINIMUM OF 90% PERMANENT BLUEGRASS AND/OR FESCUE. LIME SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE.
- NO MORE THAN 3 ACRES SHALL BE DISTURBED AT ONE TIME. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- WHERE PLACEMENT OF FILL IS REQUIRED FOR STORM WATER CONTROL, FILL SHALL BE PLACED IN AN UNFROZEN STATE UPON UNFROZEN GROUND. UNDER NO CIRCUMSTANCES SHALL FILL BE PLACED FROM NOVEMBER THROUGH JANUARY.
- SILT SACKS SHALL BE INSTALLED IN ALL PROPOSED CATCH BASINS AND IN DOWNSTREAM CATCH BASINS IN BOSTON ROAD AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN.



PREPARED FOR
DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870



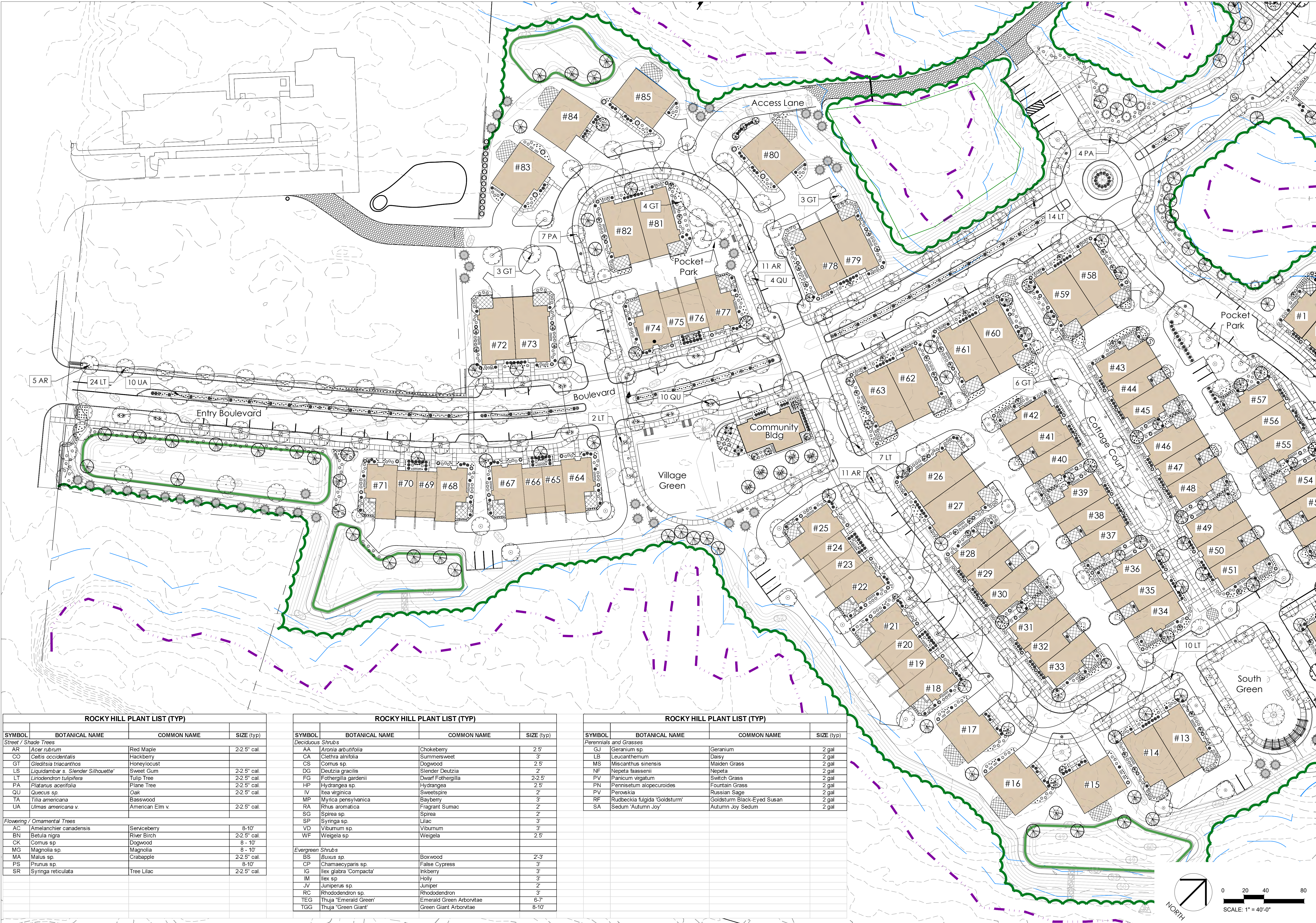
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

CONSTRUCTION
DETAILS
- EROSION
CONTROL

SHEET: C10.6

NO.	DATE	DESCRIPTION	BY	DATE: AUG. 11, 2025	CALC. BY: J.T.M.	CHKD. BY: S.B.S.	PROJECT: M244407
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ROCKY HILL PLANT LIST (TYP)			
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE (typ)
<i>Street / Shade Trees</i>			
AR	<i>Acer rubrum</i>	Red Maple	2-2.5' cal
CO	<i>Celtis occidentalis</i>	Hackberry	
GT	<i>Gleditsia triacanthos</i>	Honeylocust	
LS	<i>Liquidambar s. 'Slender Silhouette'</i>	Sweet Gum	2-2.5' cal
LT	<i>Liriodendron tulipifera</i>	Tulip Tree	2-2.5' cal
PA	<i>Platanus acerifolia</i>	Plane Tree	2-2.5' cal
QU	<i>Quercus sp.</i>	Oak	2-2.5' cal
TA	<i>Tilia americana</i>	Basswood	
UA	<i>Ulmus americana v.</i>	American Elm v.	2-2.5' cal
<i>Flowering / Ornamental Trees</i>			
AC	<i>Amelanchier canadensis</i>	Serviceberry	8-10'
BN	<i>Betula nigra</i>	River Birch	2-2.5' cal
CK	<i>Cornus sp.</i>	Dogwood	8 - 10'
MG	<i>Magnolia sp.</i>	Magnolia	8 - 10'
MA	<i>Malus sp.</i>	Crabapple	2-2.5' cal
PS	<i>Prunus sp.</i>		8-10'
SR	<i>Syringa reticulata</i>	Tree Lilac	2-2.5' cal

ROCKY HILL PLANT LIST (TYP)			
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE (typ)
<i>Deciduous Shrubs</i>			
AA	<i>Aronia arbutifolia</i>	Chokeberry	2-5'
CA	<i>Clethra alnifolia</i>	Summersweet	3'
CS	<i>Cornus sp.</i>	Dogwood	2-5'
DG	<i>Deutzia gracilis</i>	Slender Deutzia	2'
FG	<i>Fothergilla gardenii</i>	Oxleaf Fothergilla	2-2.5'
HP	<i>Hydrangea sp.</i>	Hydrangea	2-5'
IV	<i>Itea virginica</i>	Sweetspire	2'
MP	<i>Myrica pensylvanica</i>	Bayberry	3'
RA	<i>Rhus aromatica</i>	Fragrant Sumac	2'
SG	<i>Spiraea sp.</i>	Spiraea	2'
SP	<i>Syringa sp.</i>	Lilac	3'
VD	<i>Viburnum sp.</i>	Viburnum	3'
WF	<i>Weigela sp.</i>	Weigela	2-5'
<i>Evergreen Shrubs</i>			
BS	<i>Buxus sp.</i>	Boxwood	2-3'
CP	<i>Chamaecyparis sp.</i>	False Cypress	3'
IG	<i>Ilex glabra 'Compacta'</i>	Inkberry	3'
IM	<i>Ilex sp.</i>	Holly	3'
JV	<i>Juniperus sp.</i>	Juniper	2'
RC	<i>Rhododendron sp.</i>	Rhododendron	3'
TEG	<i>Thuja 'Emerald Green'</i>	Emerald Green Arborvitae	6-7'
TGG	<i>Thuja 'Green Giant'</i>	Green Giant Arborvitae	8-10'

ROCKY HILL PLANT LIST (TYP)			
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE (typ)
<i>Perennials and Grasses</i>			
GJ	<i>Geranium sp.</i>	Geranium	2 gal
LB	<i>Leucanthemum</i>	Daisy	2 gal
MS	<i>Miscanthus sinensis</i>	Maiden Grass	2 gal
NF	<i>Nepeta faassenii</i>	Nepeta	2 gal
PV	<i>Panicum virgatum</i>	Switch Grass	2 gal
PN	<i>Pennisetum alopecuroides</i>	Fountain Grass	2 gal
PV	<i>Perovskia</i>	Russian Sage	2 gal
RF	<i>Rudbeckia fulgida 'Goldsturm'</i>	Goldsturm Black-Eyed Susan	2 gal
SA	<i>Sedum 'Autumn Joy'</i>	Autumn Joy Sedum	2 gal

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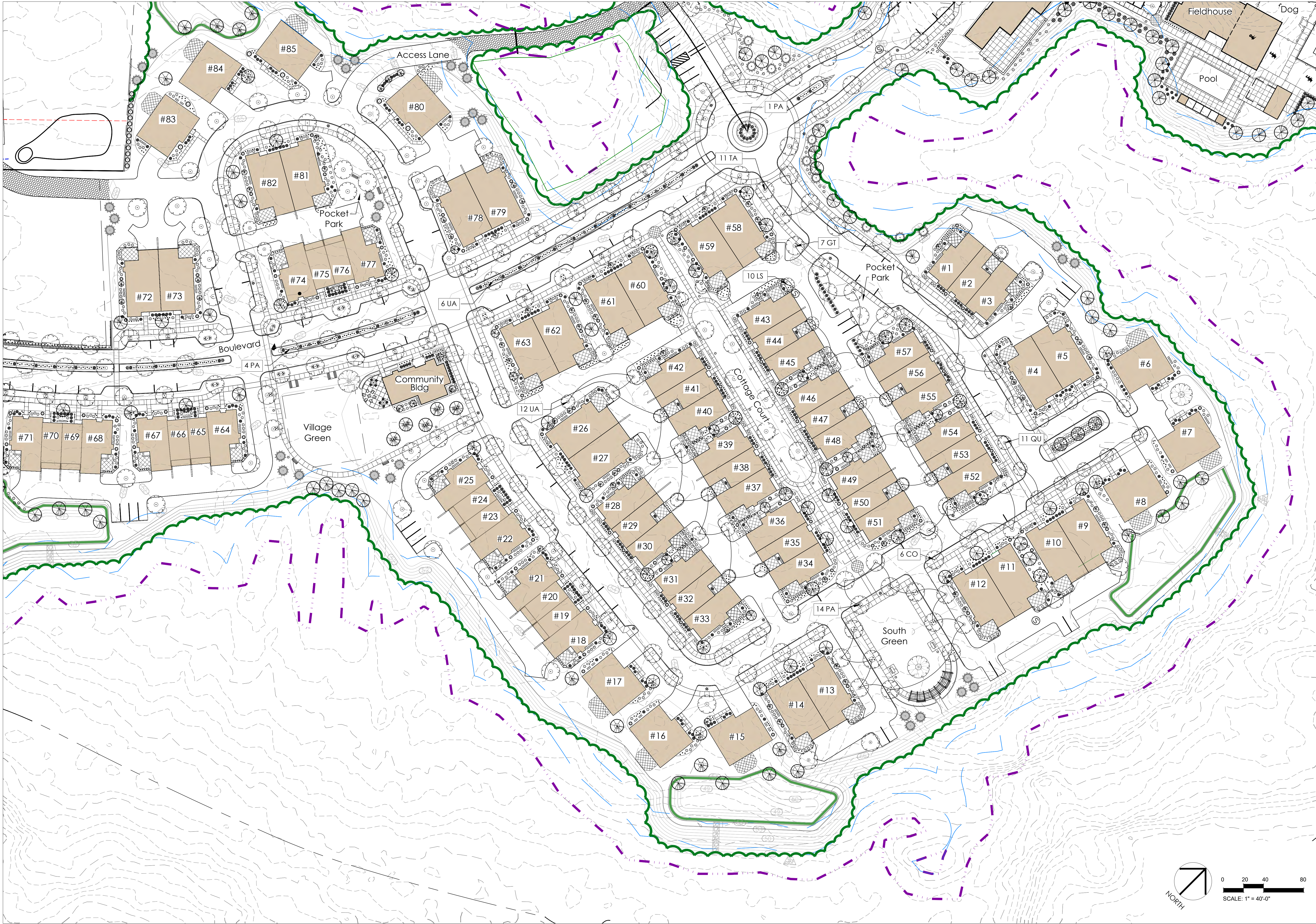
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Rocky Hill
Amesbury, MA

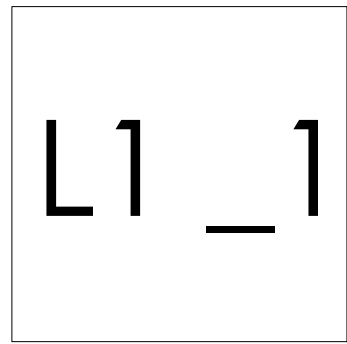
Landscape
- Street Tree Plan -

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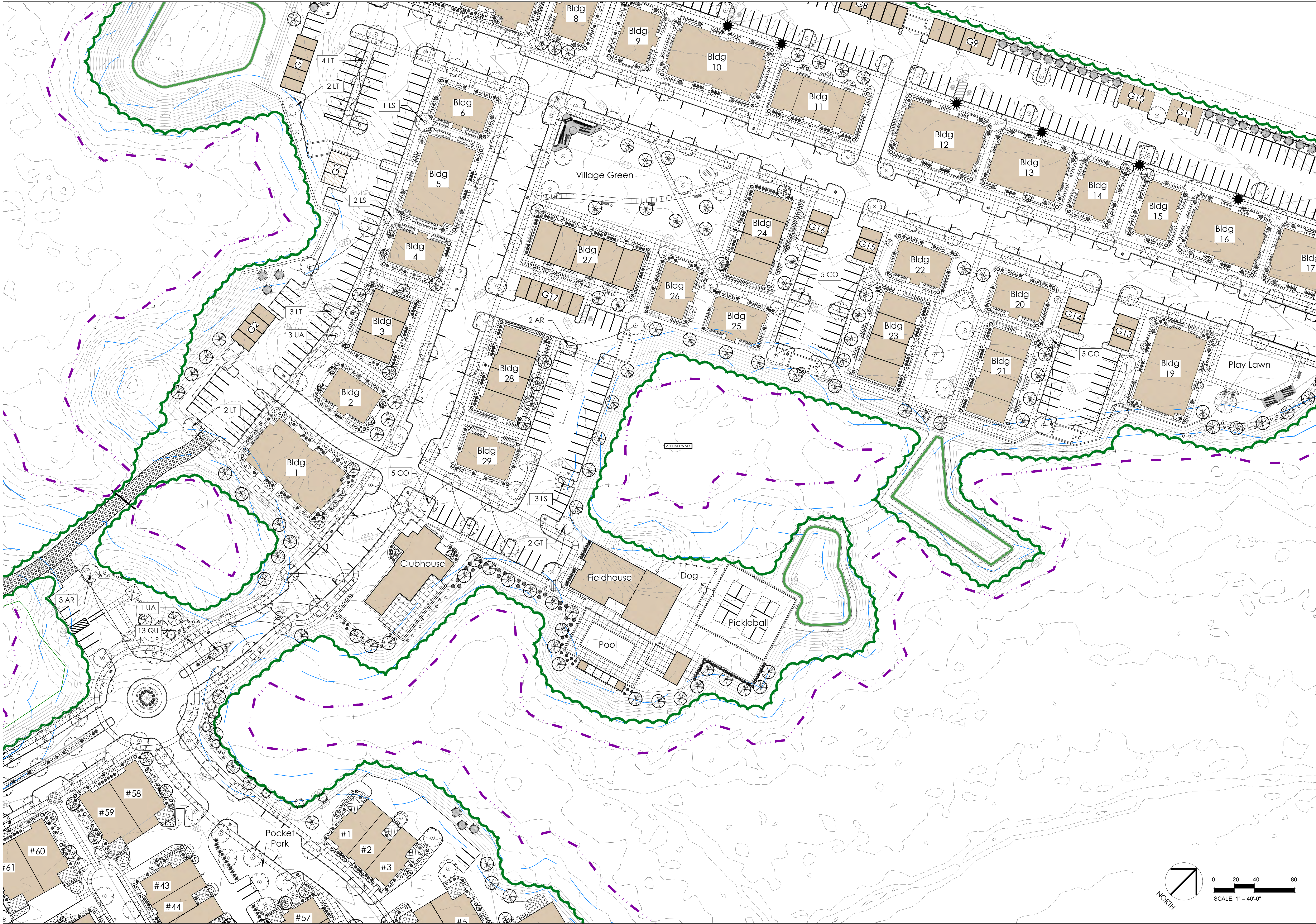
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Landscape
- Street Tree Plan -

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Amesbury, MA

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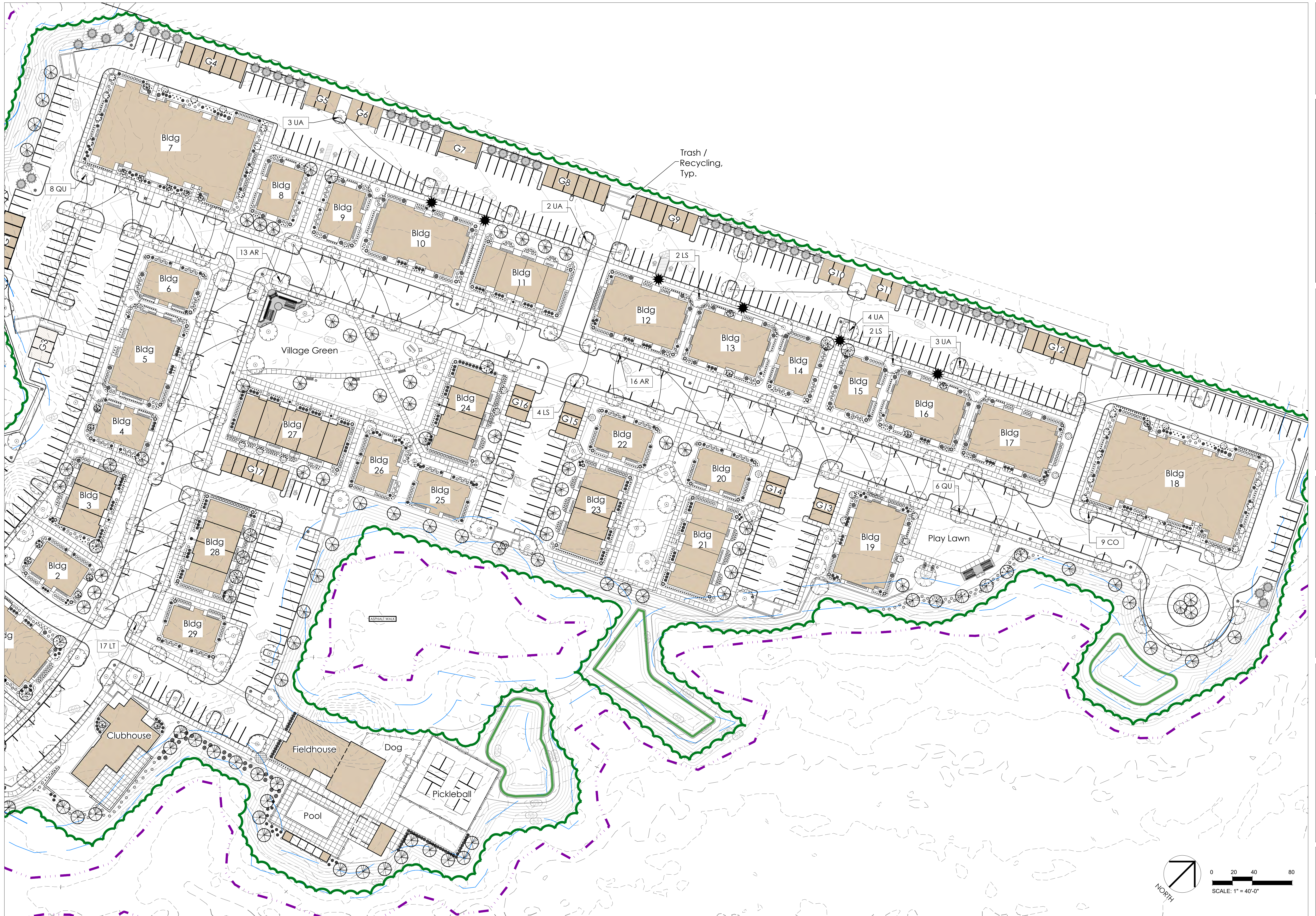
RYAN

Rocky Hill
Amesbury, MA

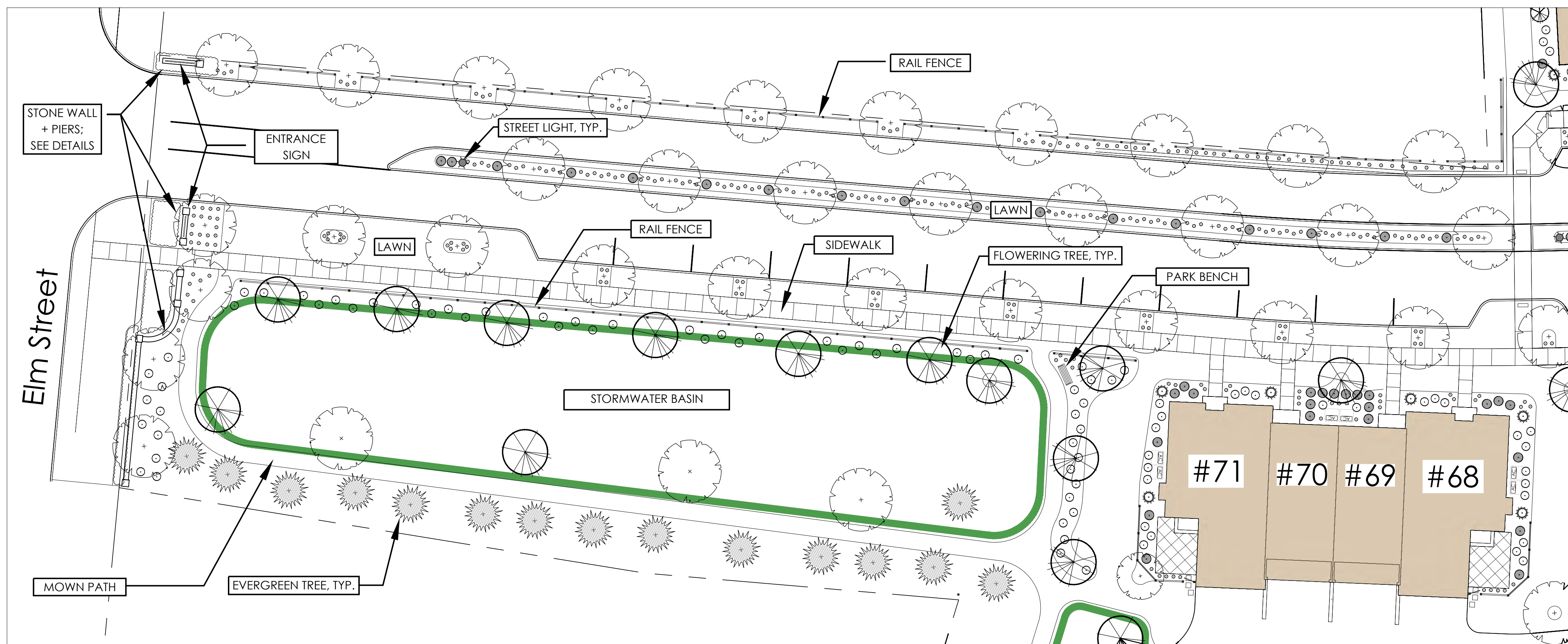
Landscape
- Street Tree Plan -

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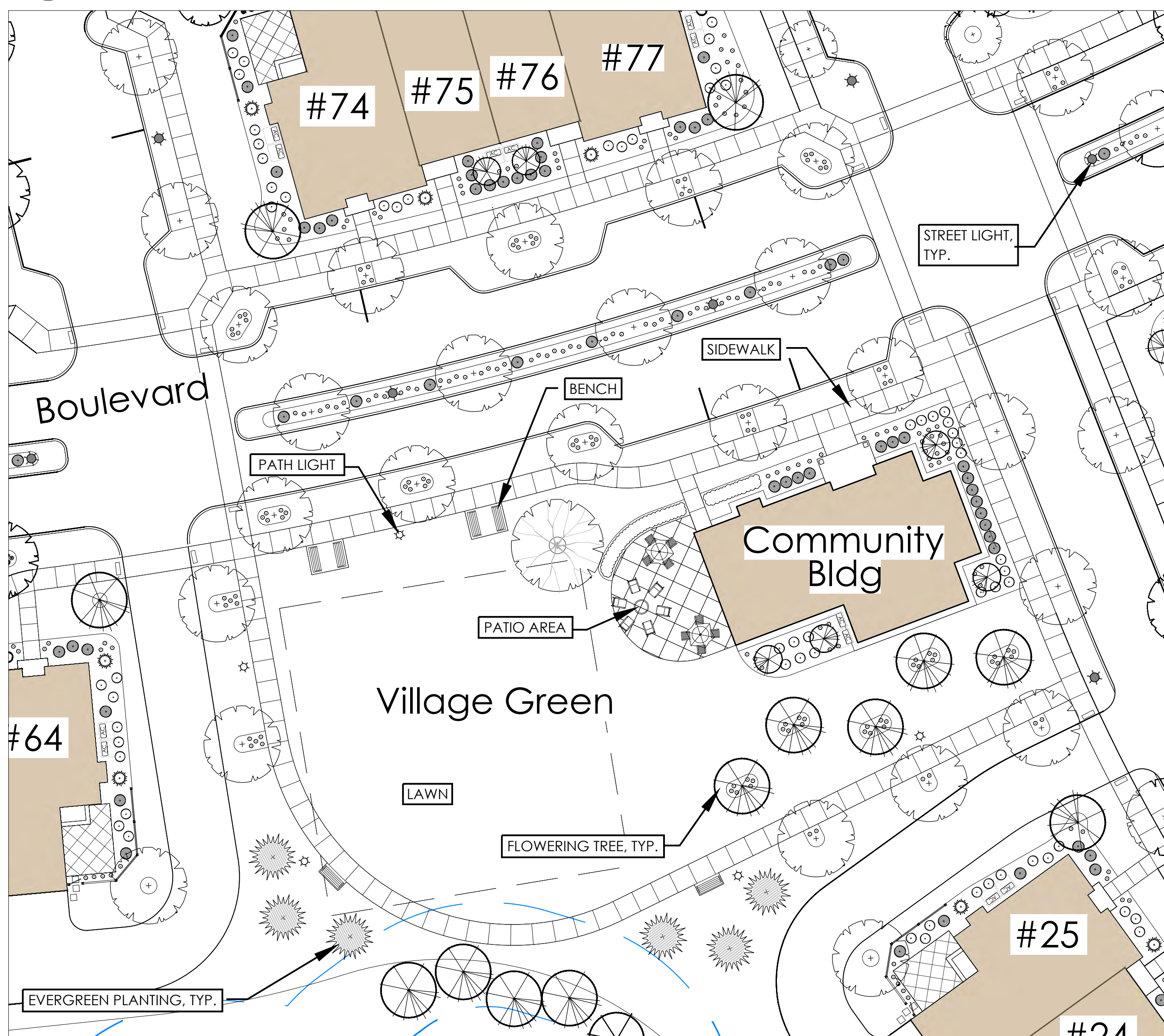
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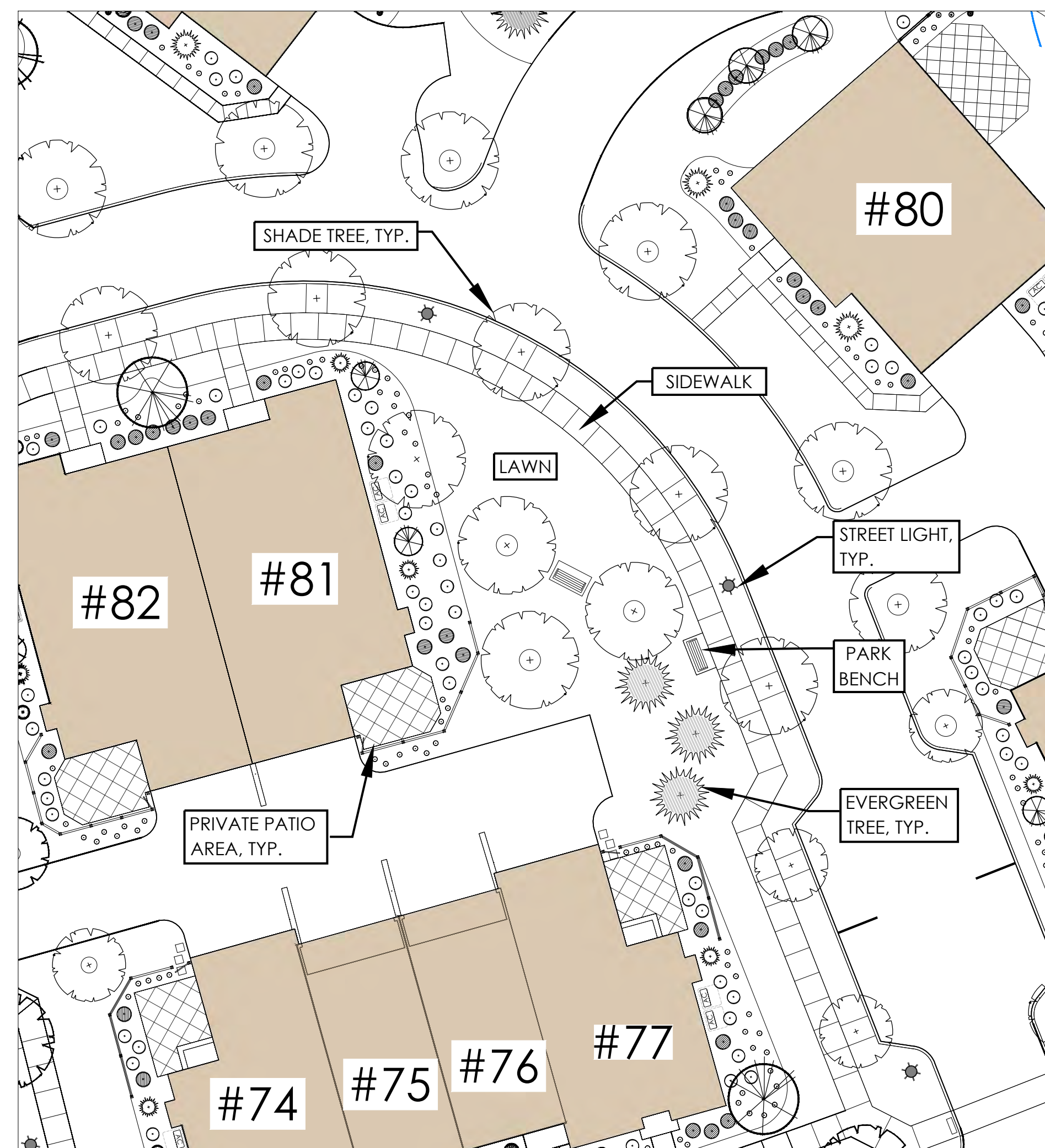
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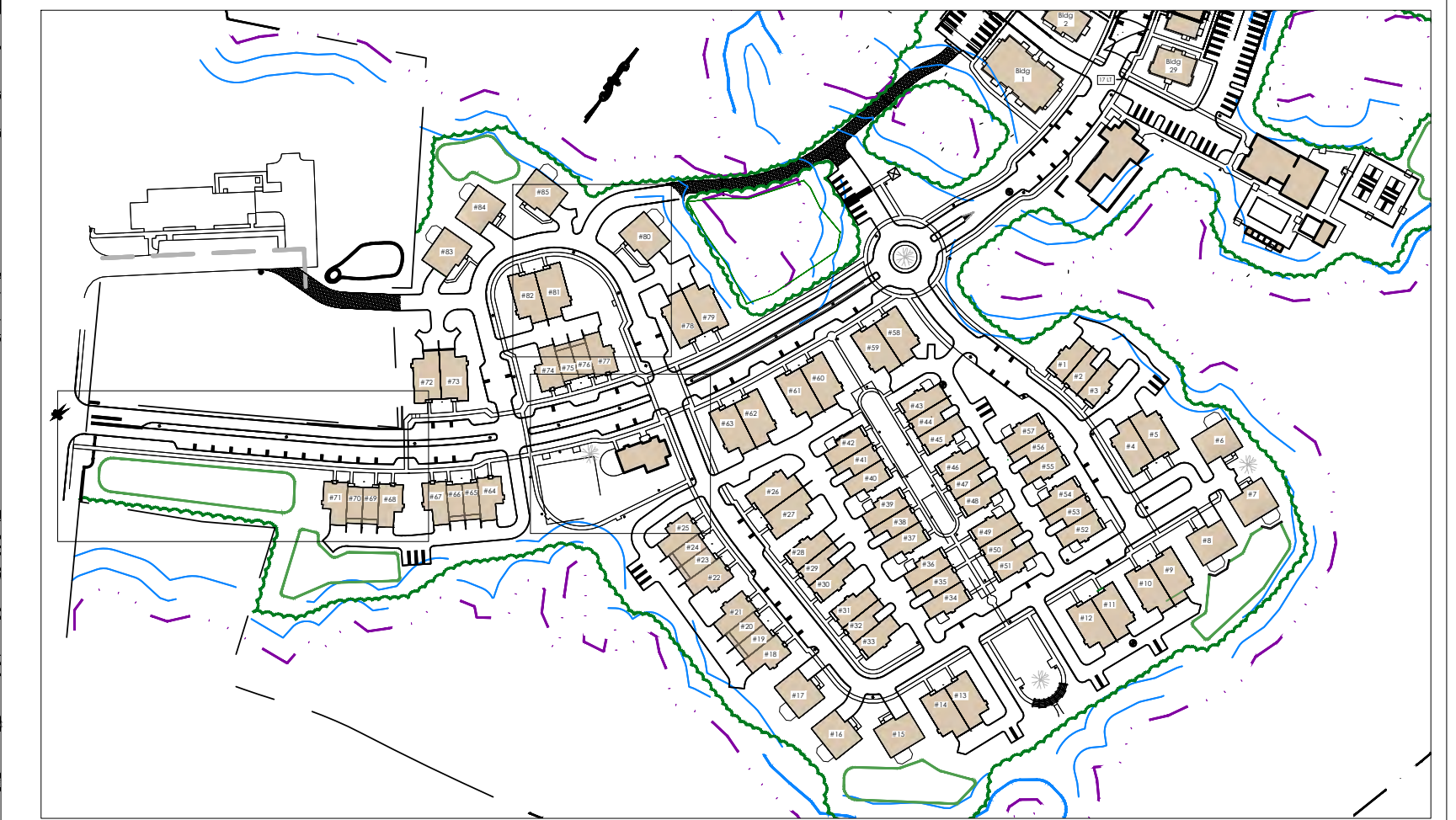
1 Entrance



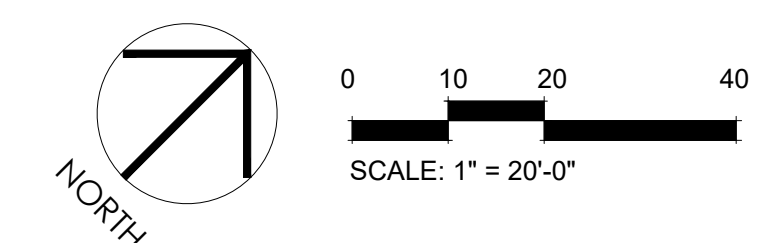
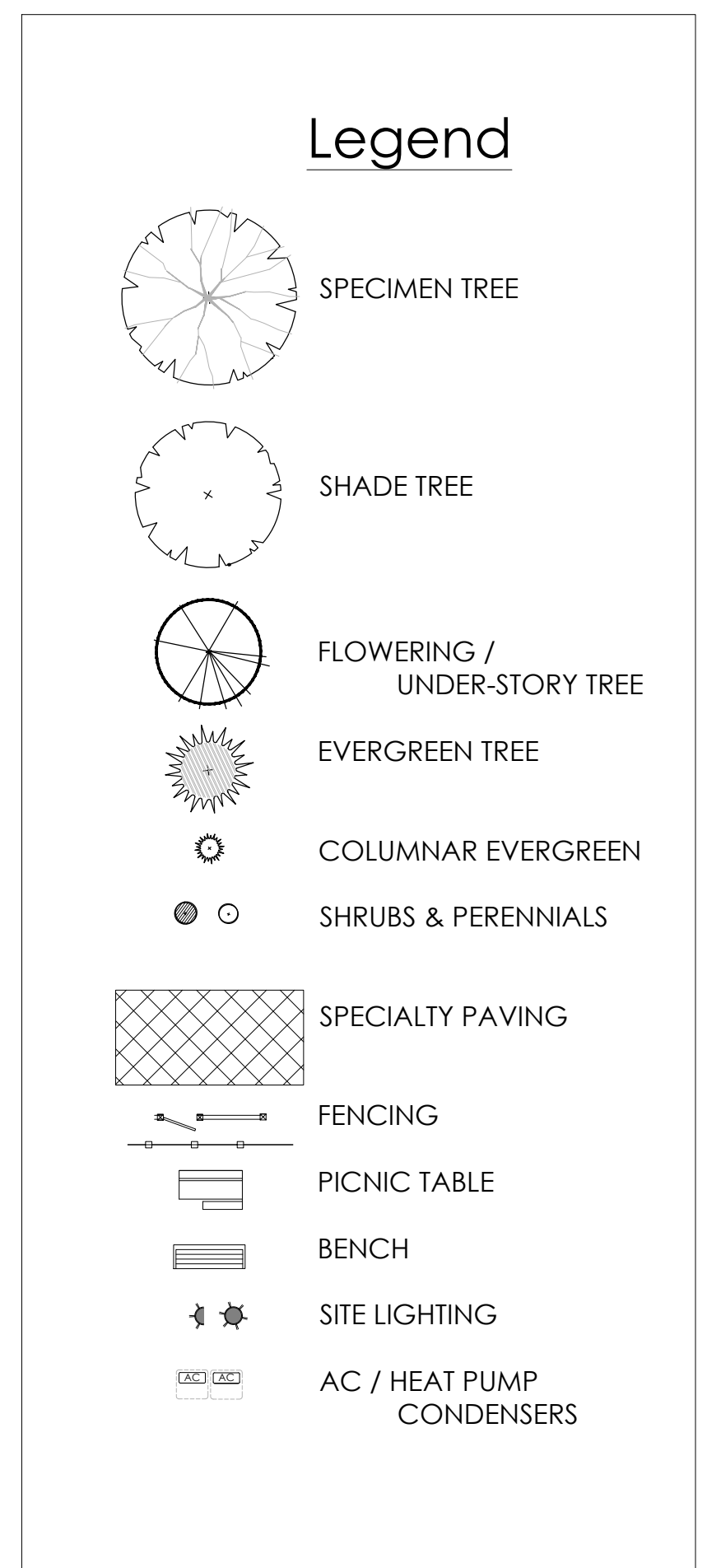
2 Village Green _ South

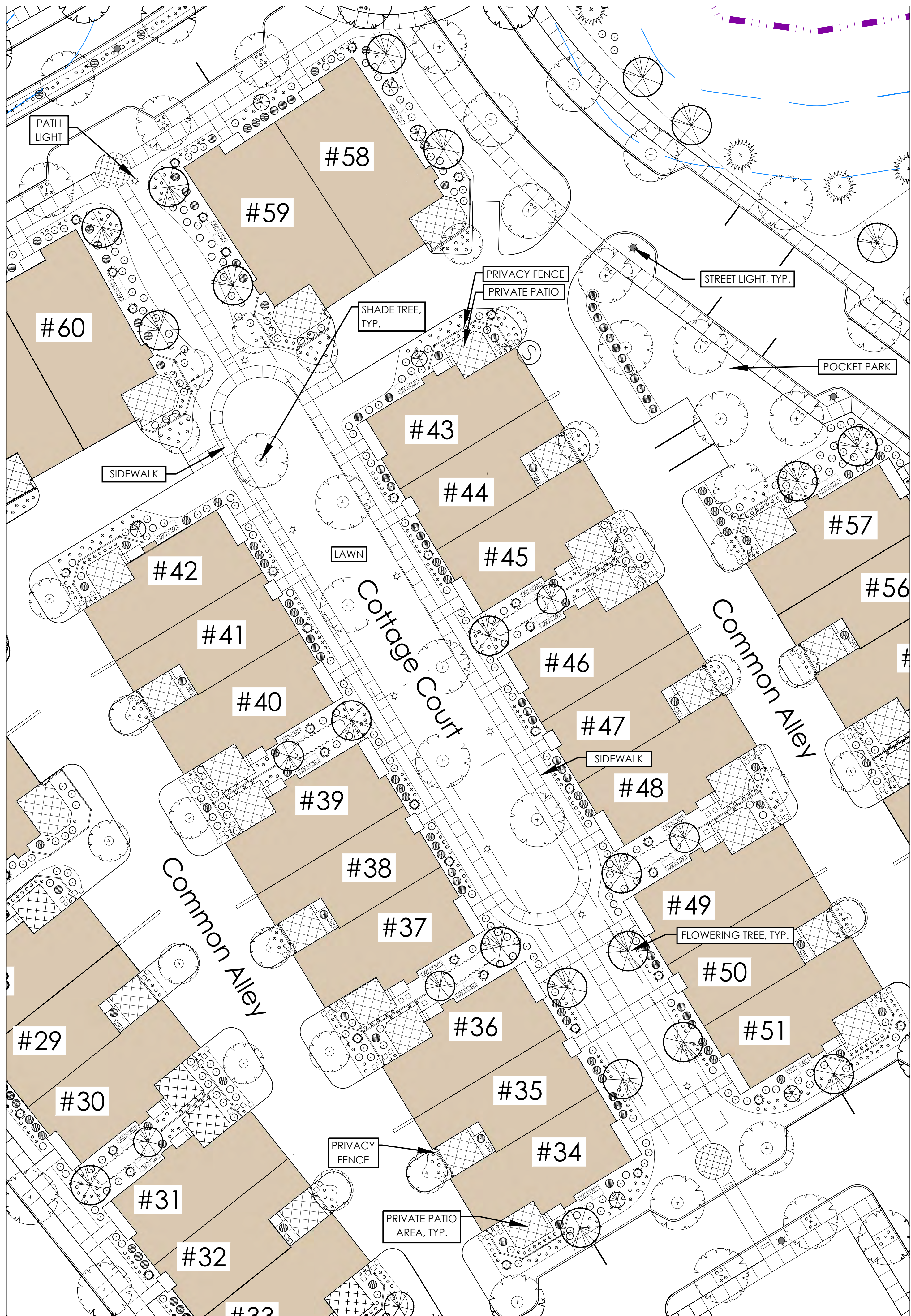


3 Pocket Park

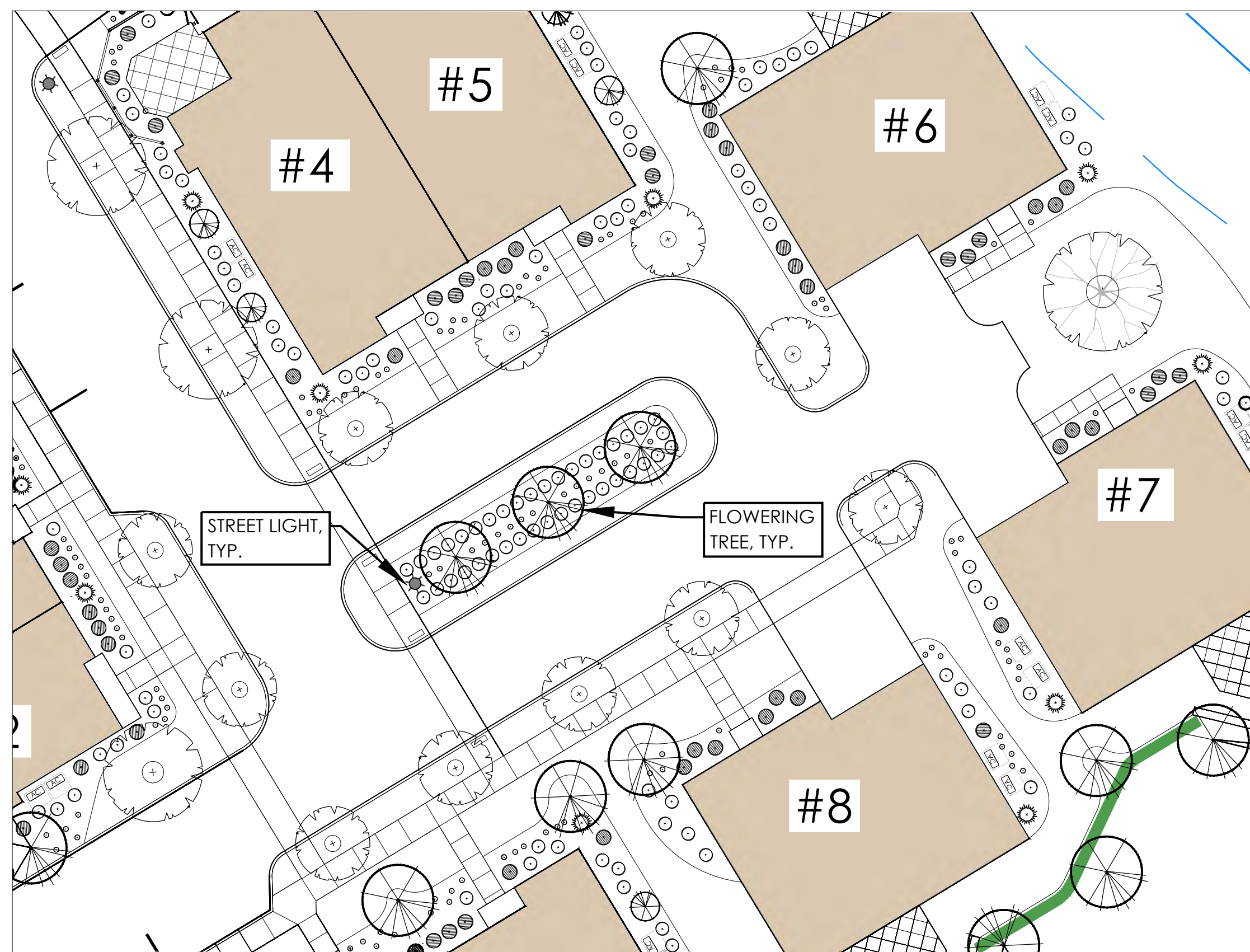


Neighborhood -- Key Plan

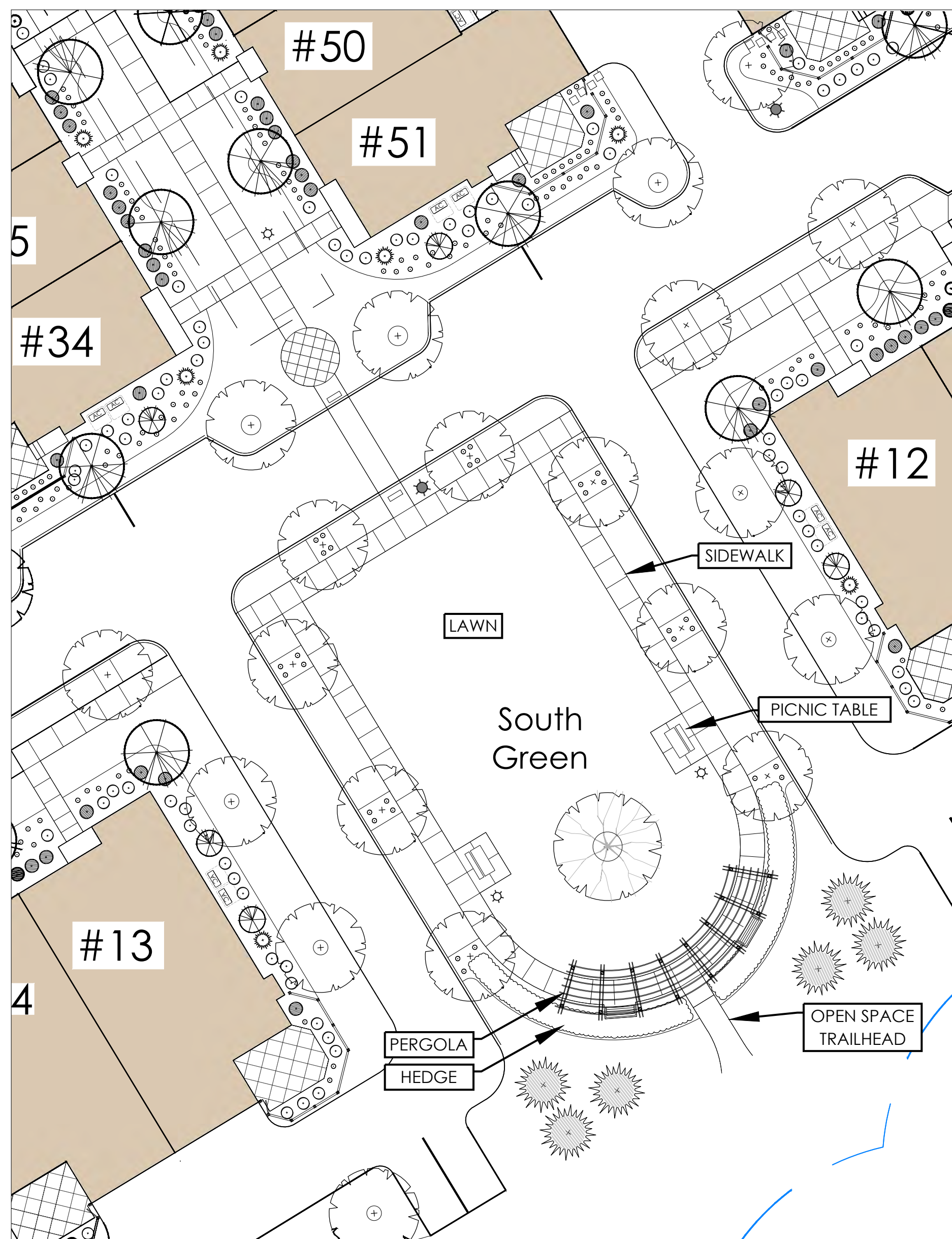




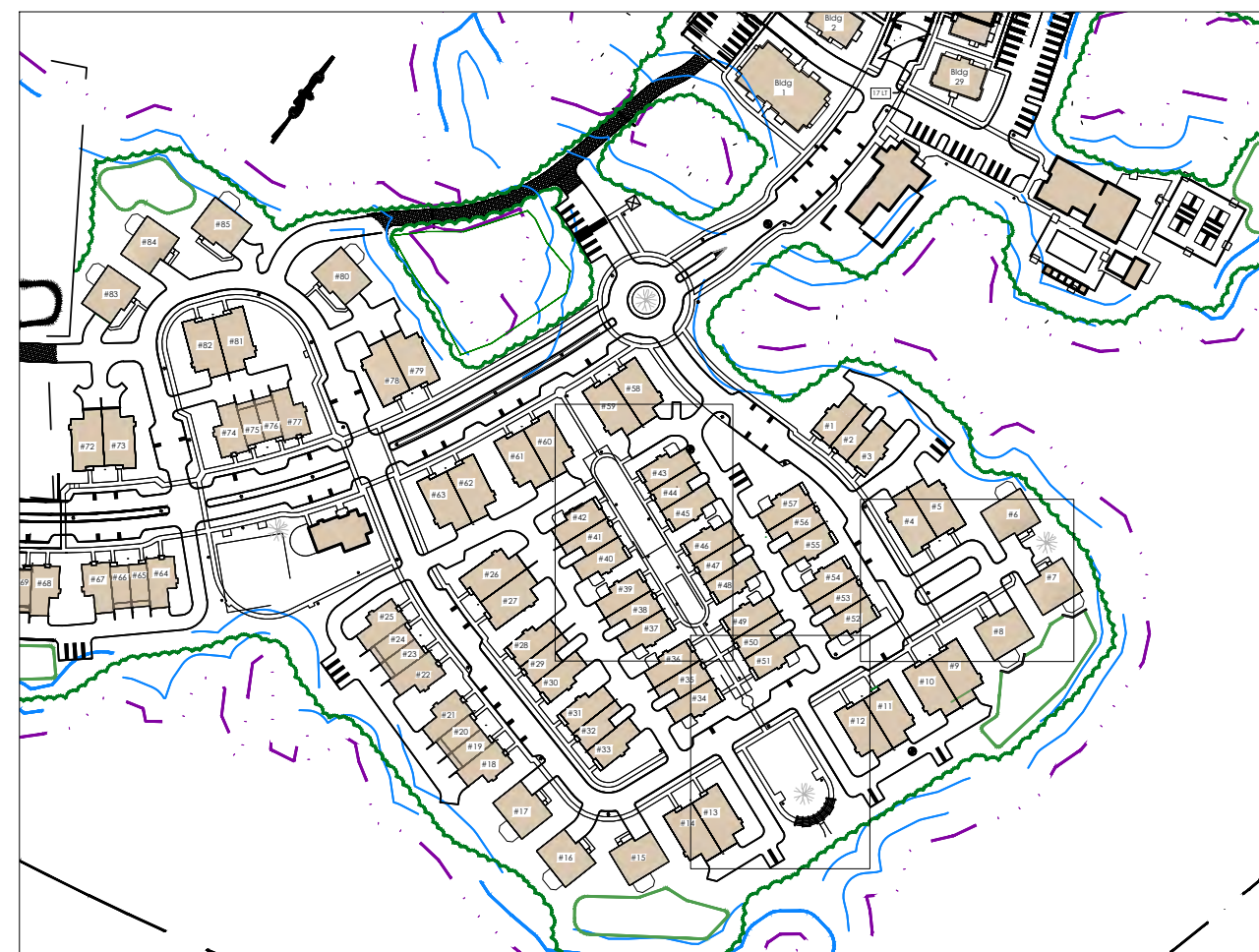
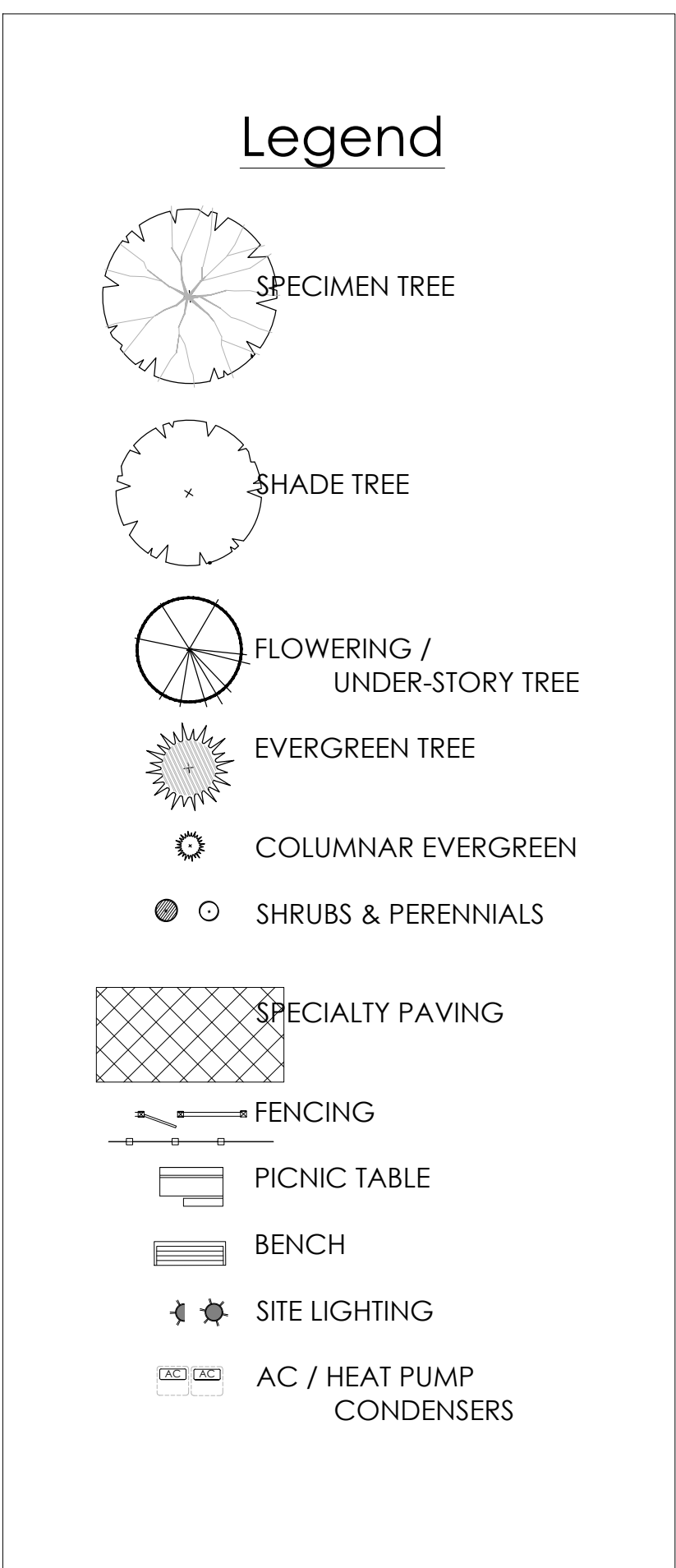
① Cottage Court



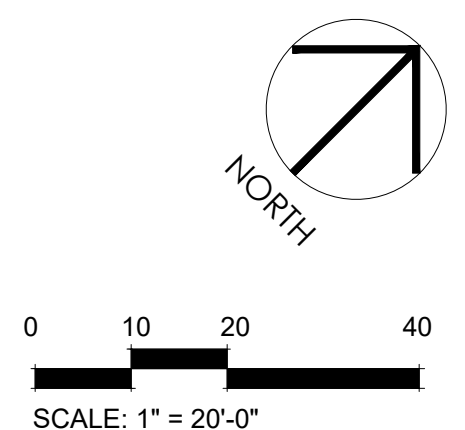
③ East Court



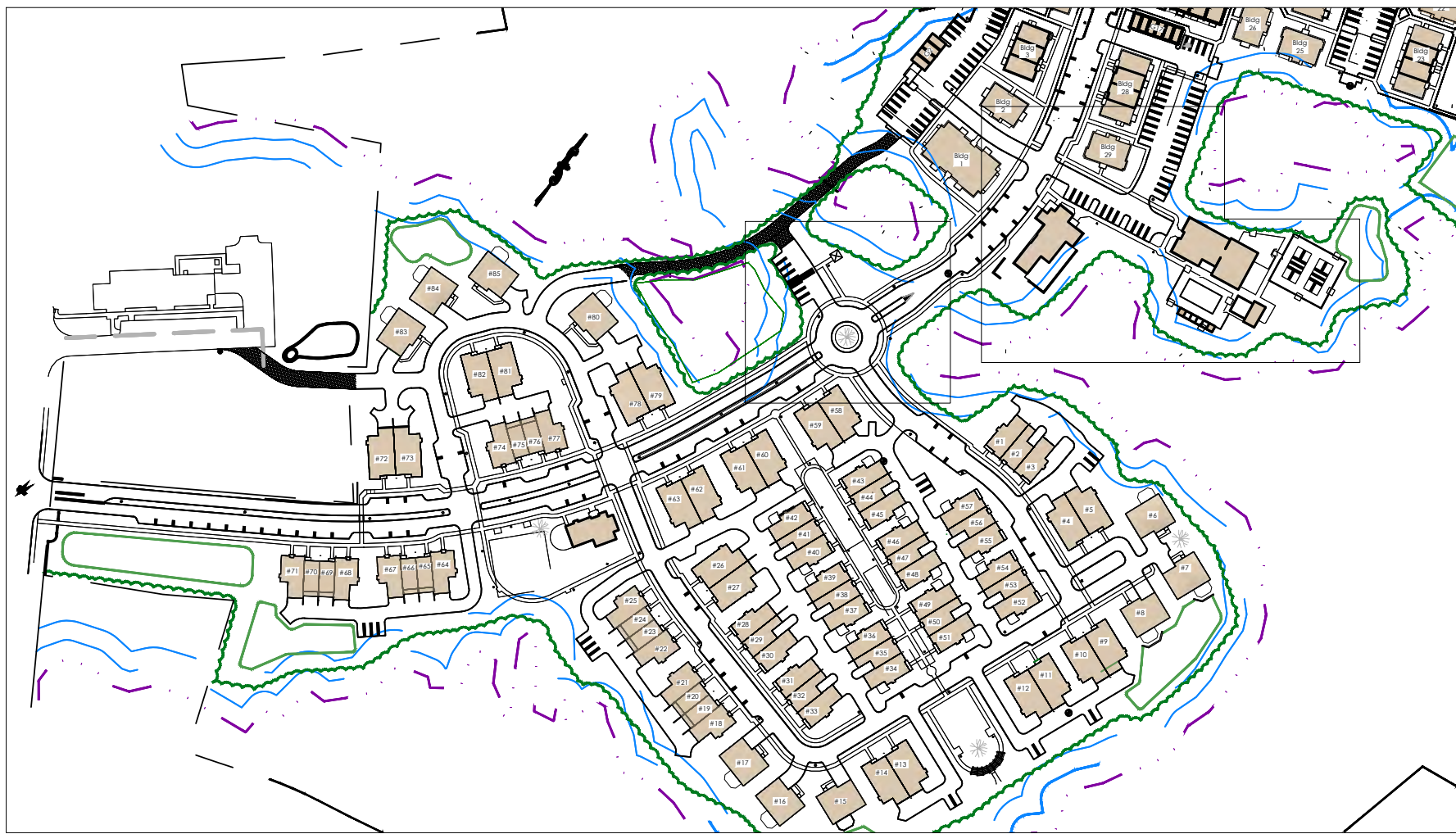
② South Green



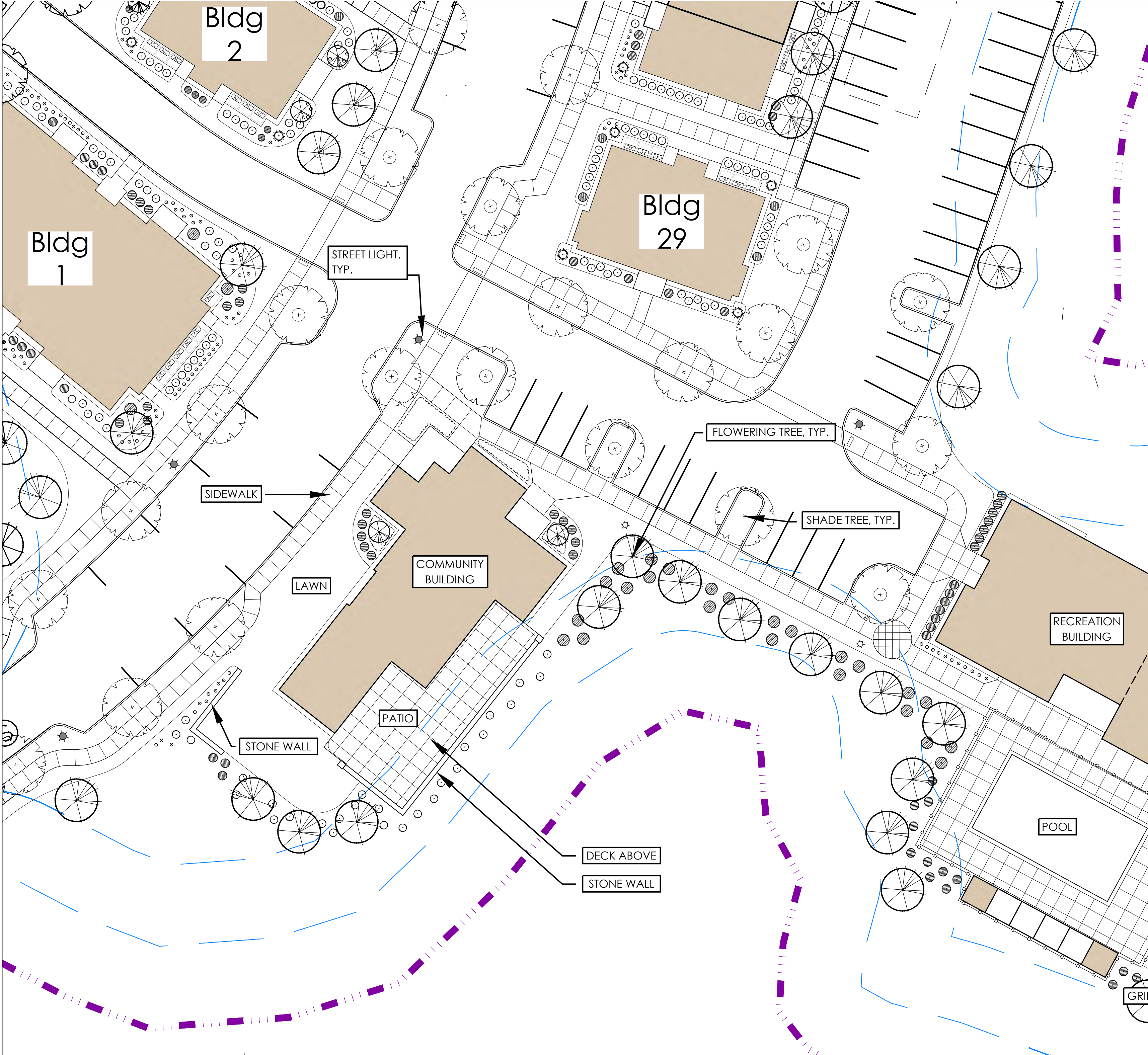
Neighborhood -- Key Plan



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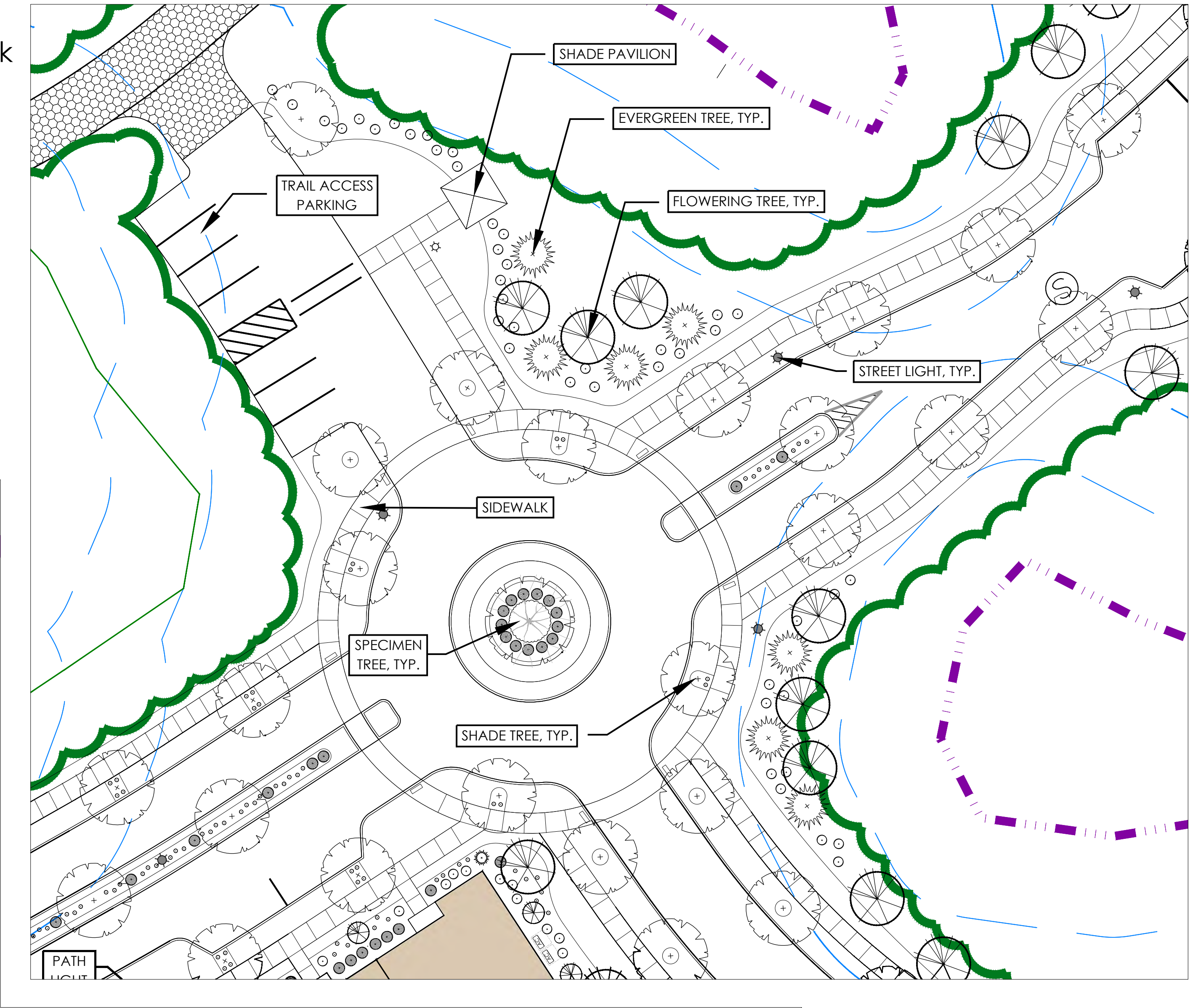


Neighborhood -- Key Plan



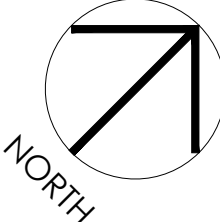
② North Neighborhood Amenity Area

① Rotary Park



Legend

- SPECIMEN TREE
- SHADE TREE
- FLOWERING / UNDER-STORY TREE
- EVERGREEN TREE
- COLUMNAR EVERGREEN
- SHRUBS & PERENNIALS
- SPECIALTY PAVING
- FENCING
- PICNIC TABLE
- BENCH
- SITE LIGHTING
- AC / HEAT PUMP CONDENSERS



0 10 20 40
SCALE: 1" = 20'-0"

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RYAN

**Rocky Hill
Amesbury, MA**

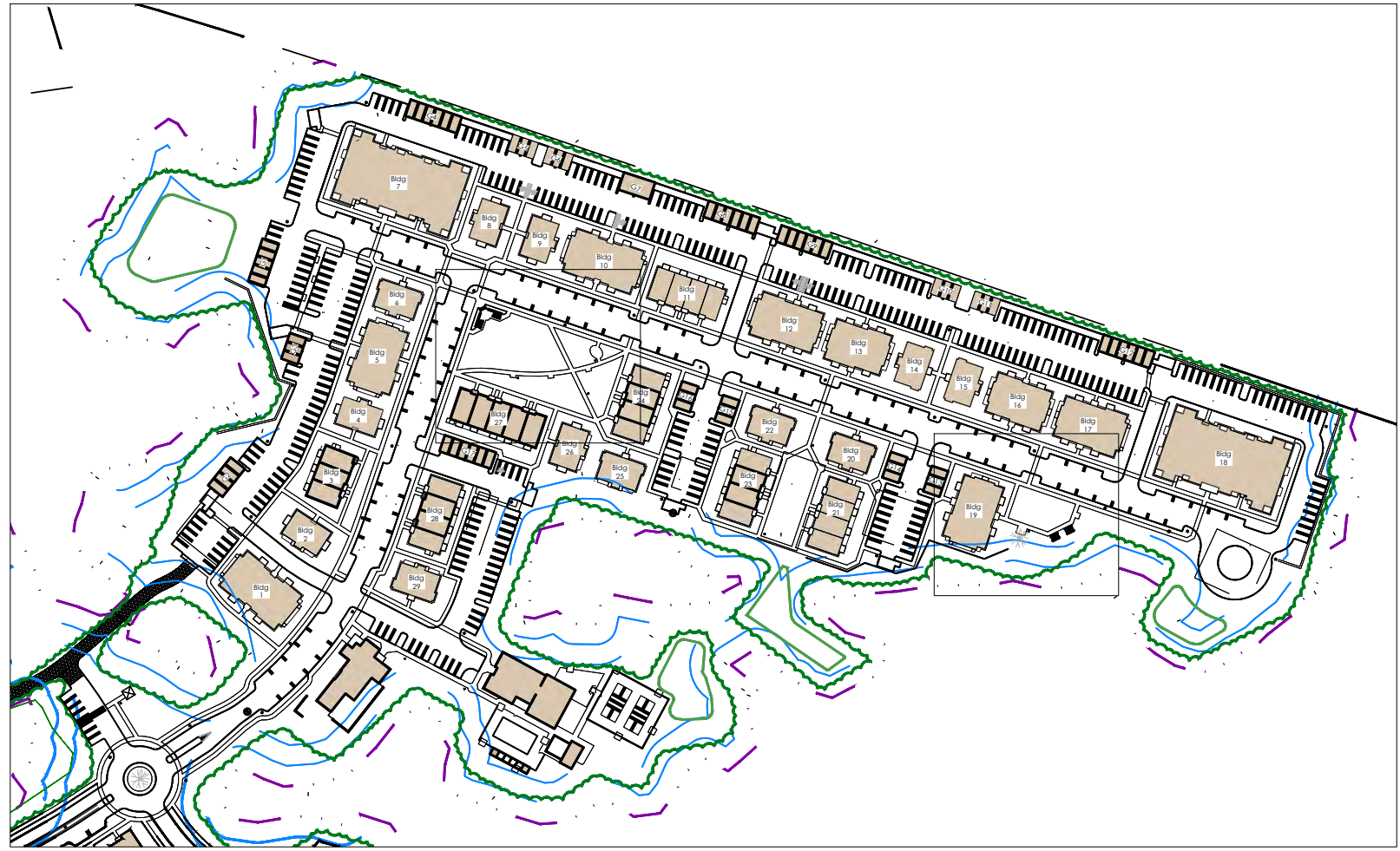
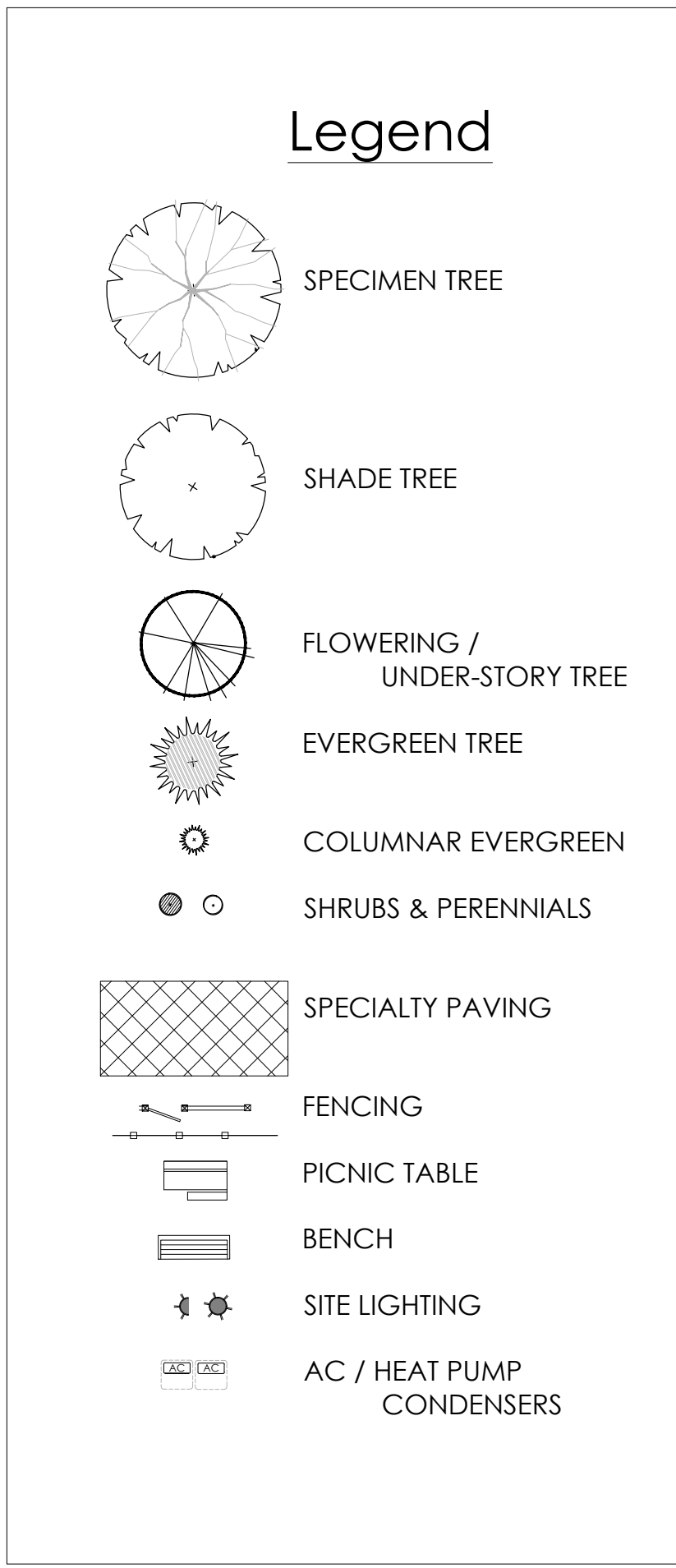
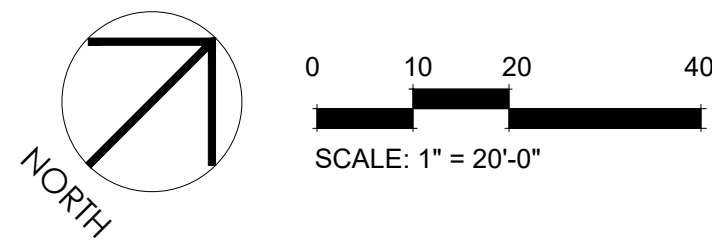
**Landscape
Common Areas
-Enlargement C-**

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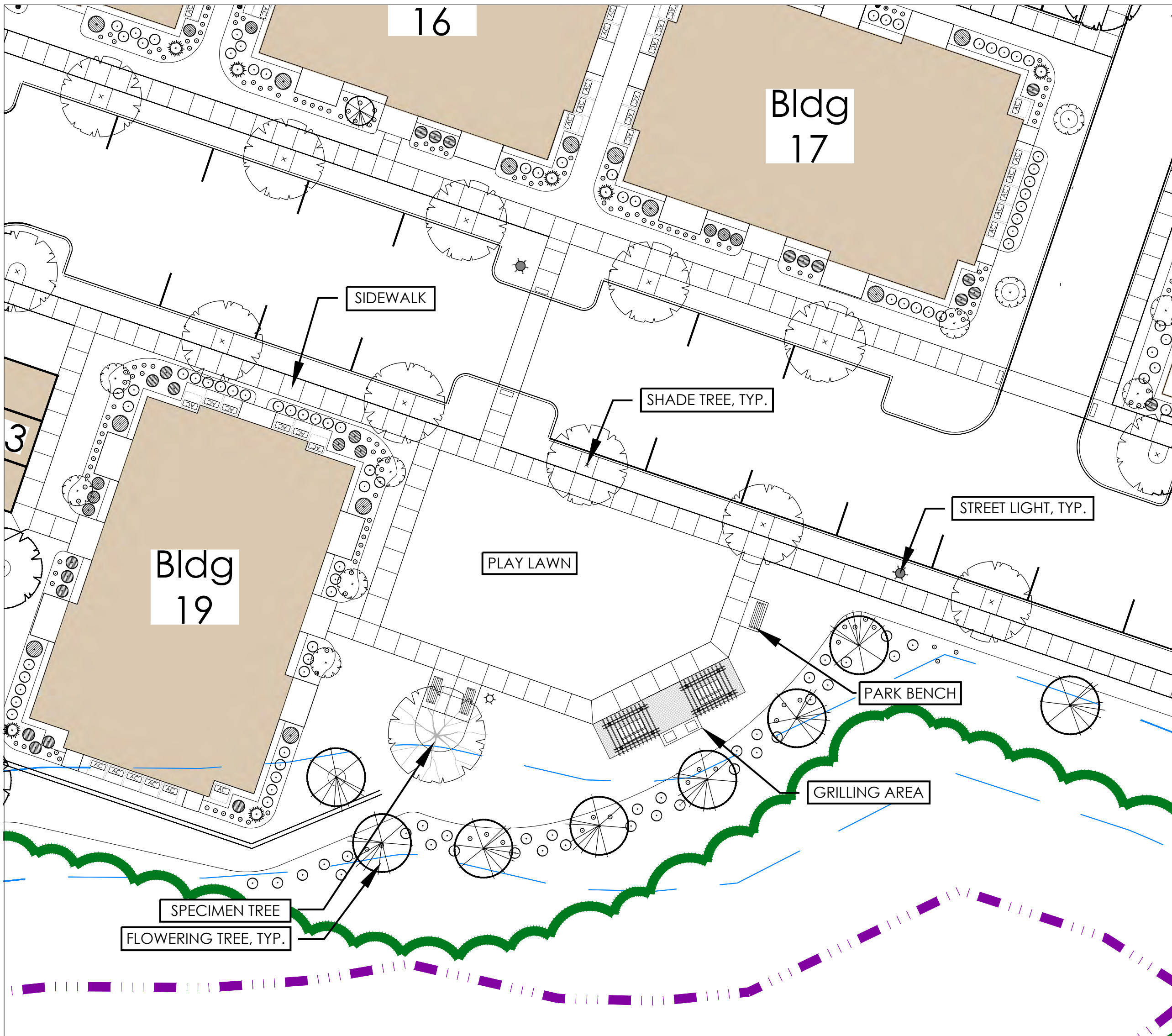
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1 Village Green - North

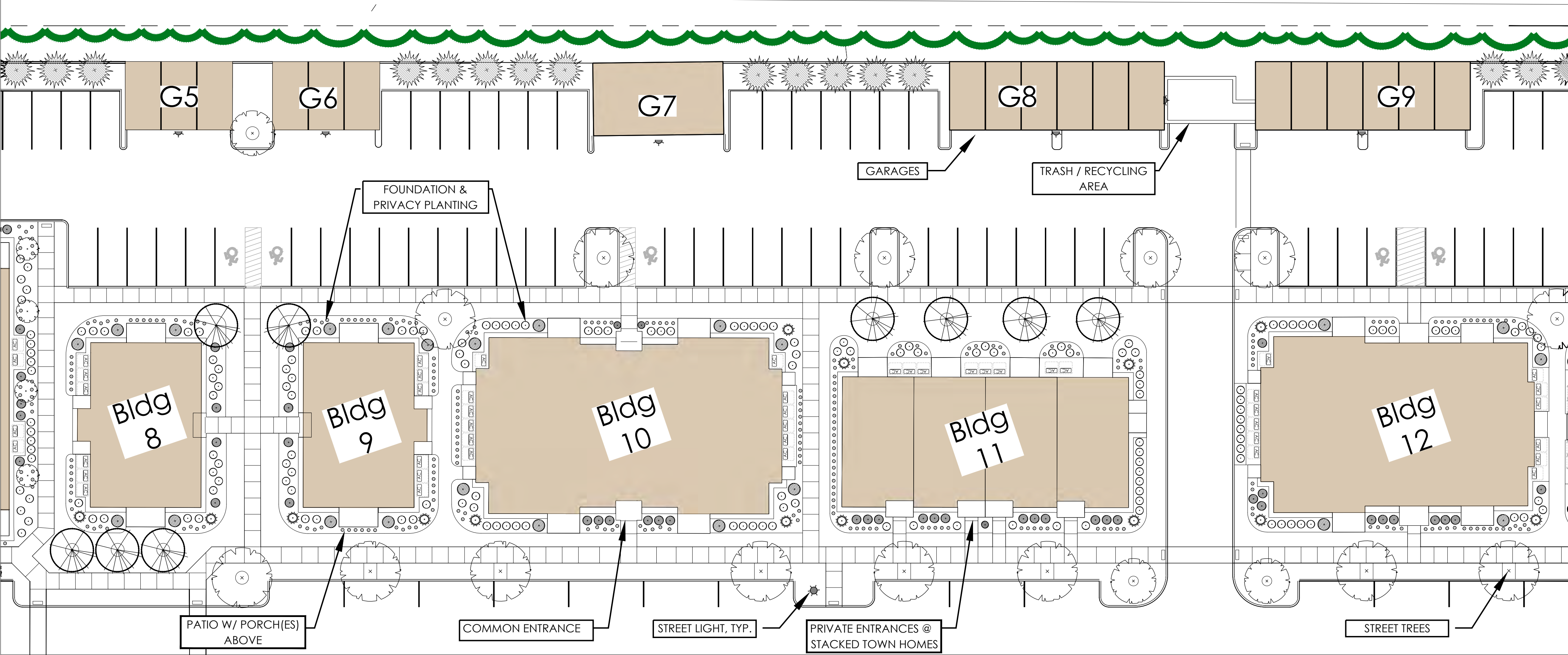


Neighborhood -- Key Plan

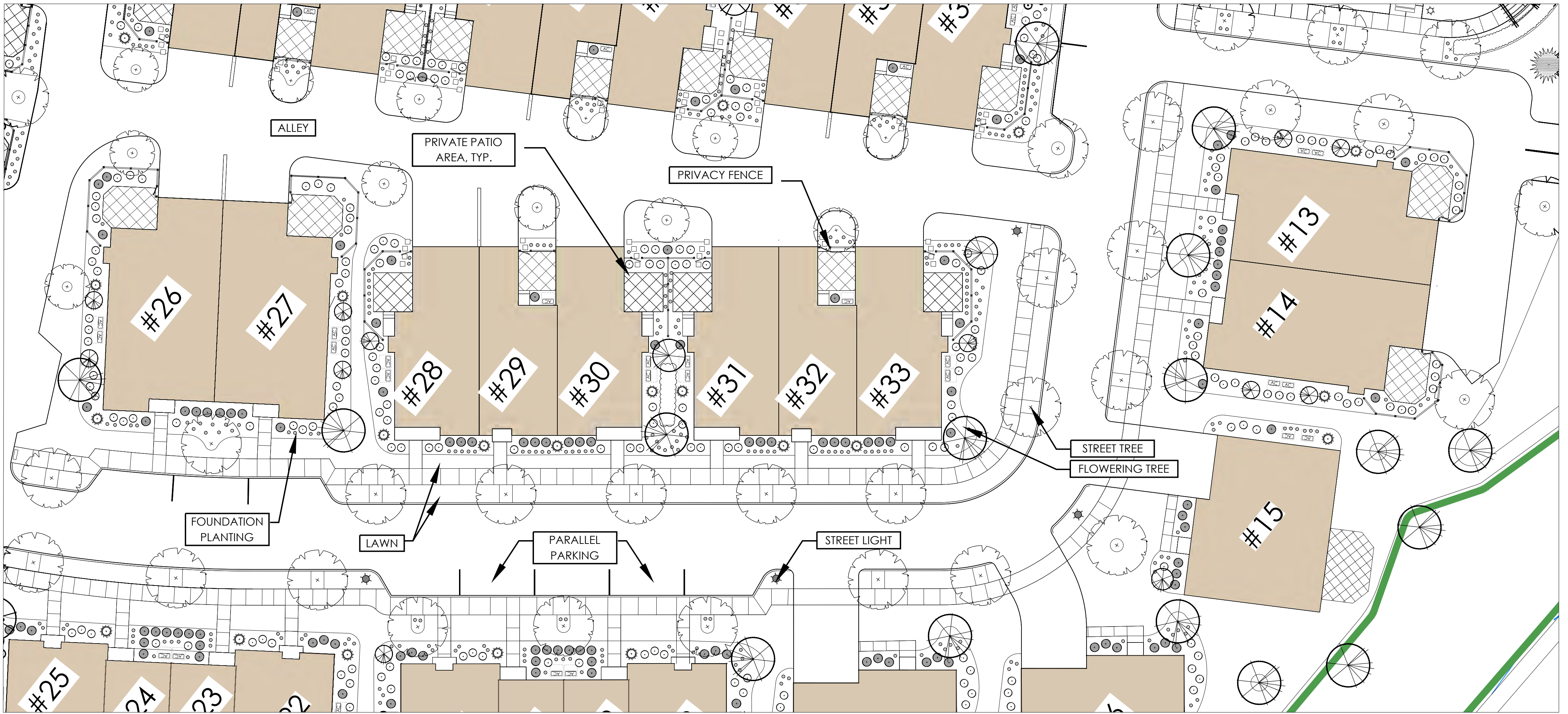


2 Pocket Park - North

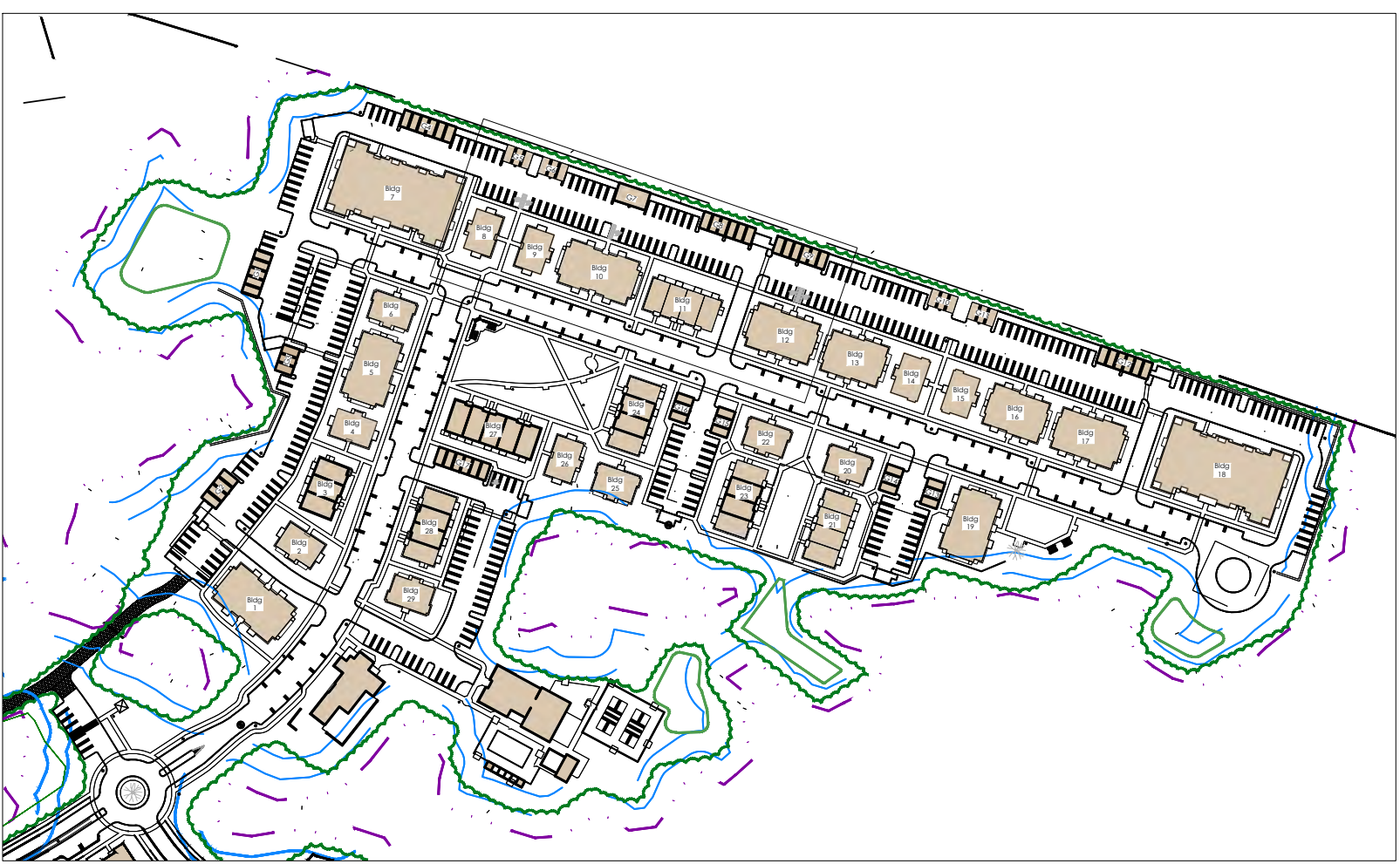
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08-14-25							
Site Plan Review Submission							



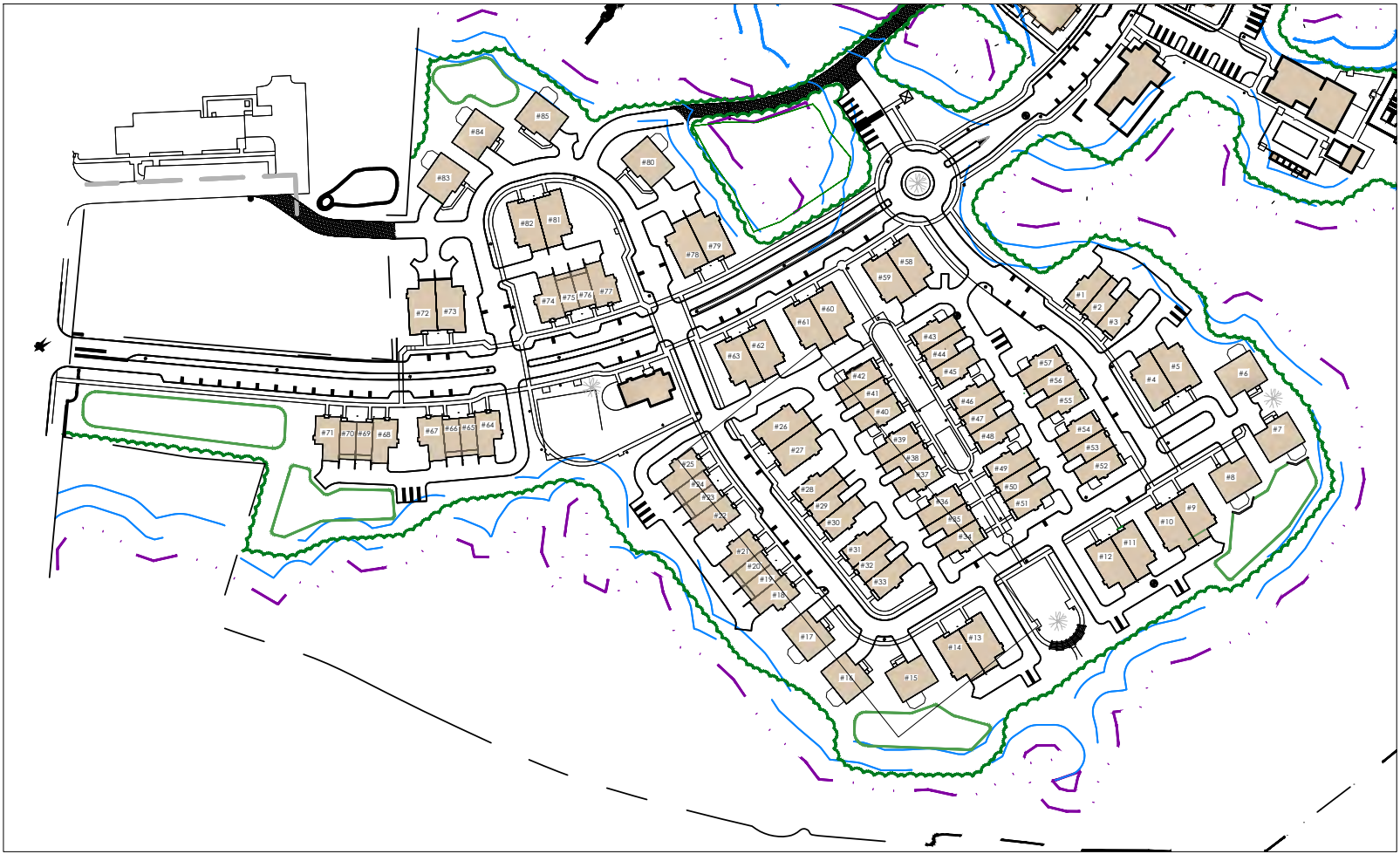
① North Neighborhood -- Typical Buildings



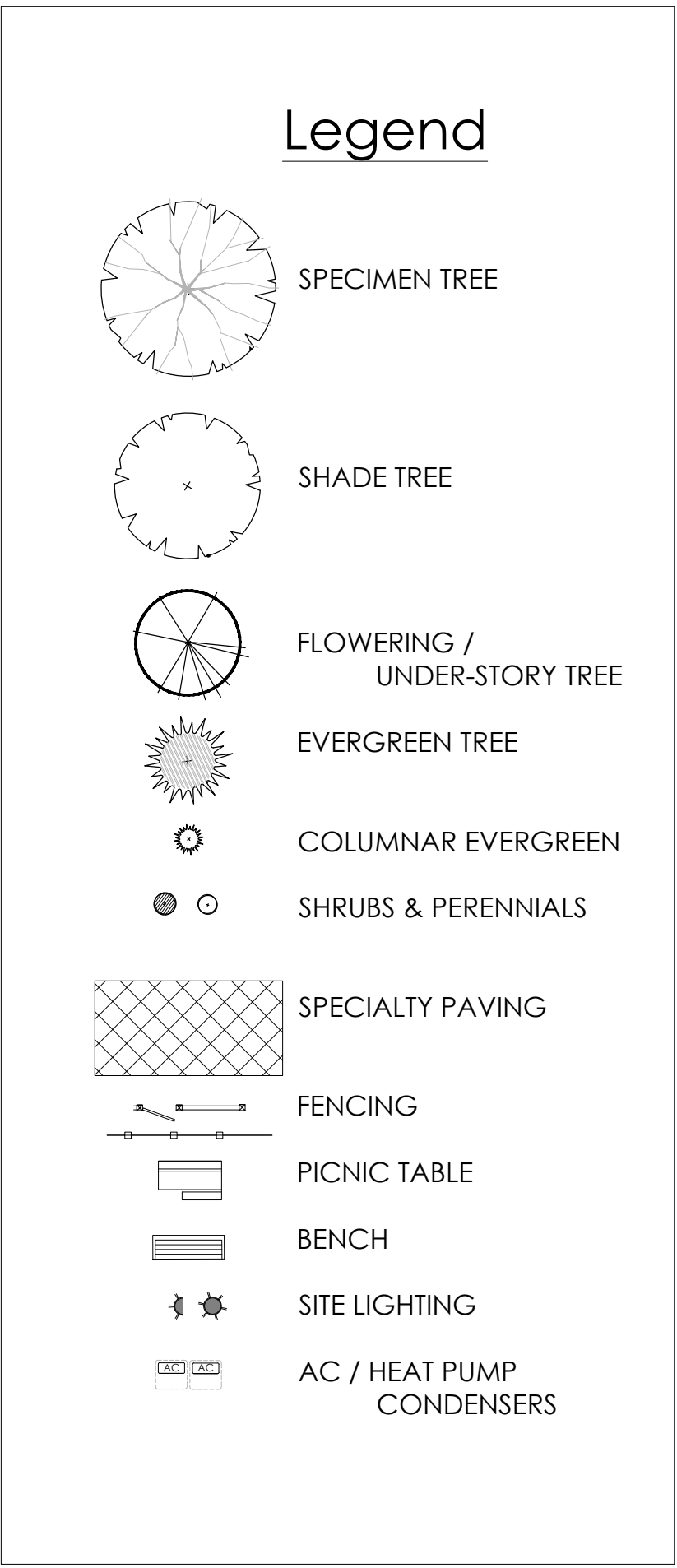
② South Neighborhood -- Typical Buildings



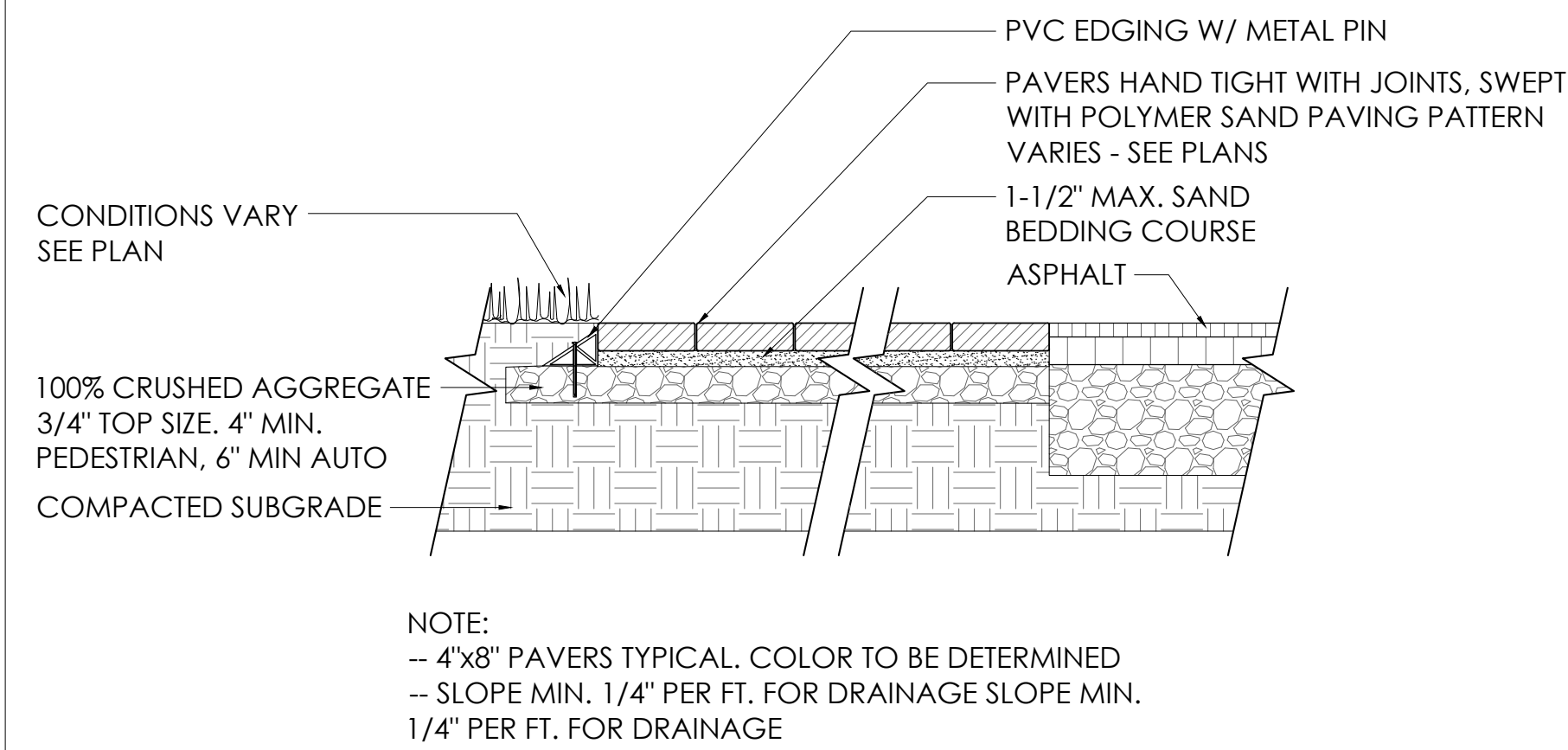
North Neighborhood -- Key Plan



South Neighborhood -- Key Plan

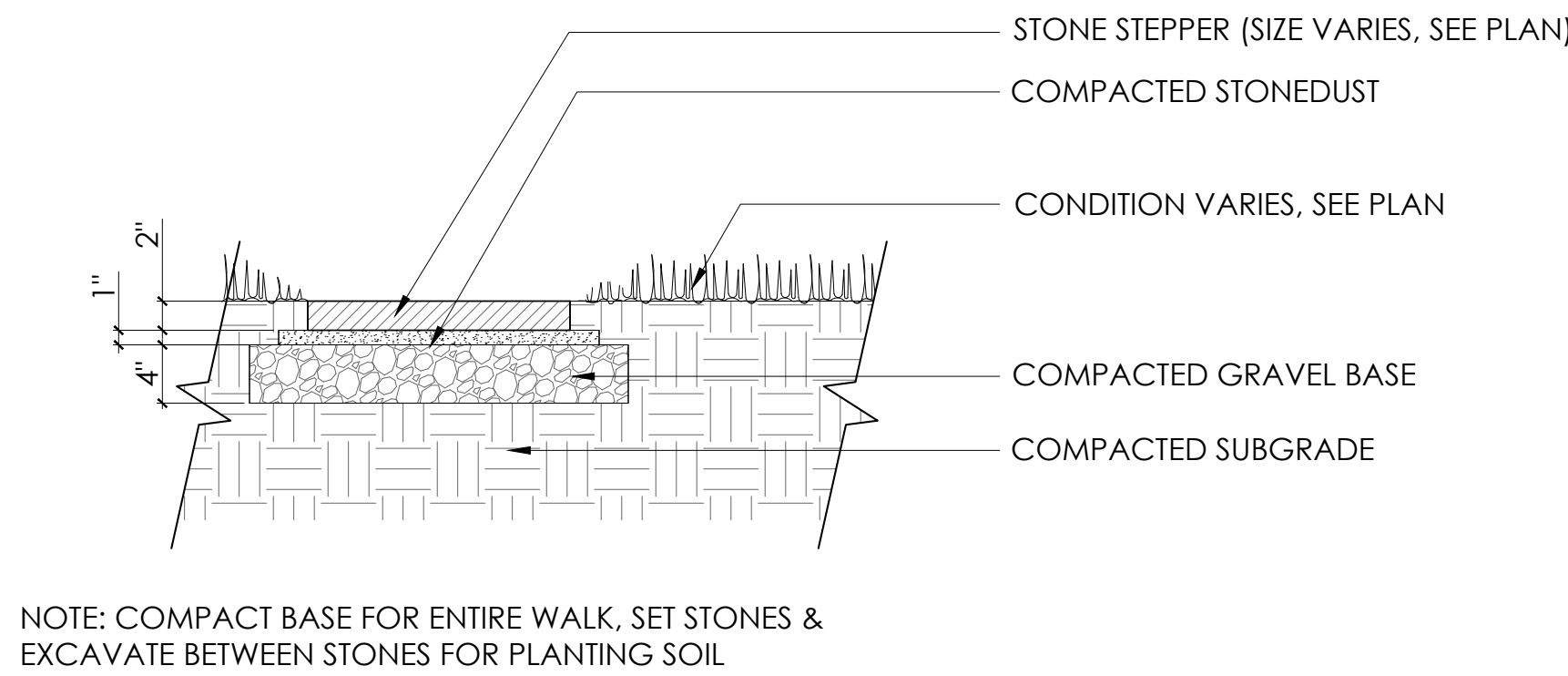


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Site Plan Review Submission							



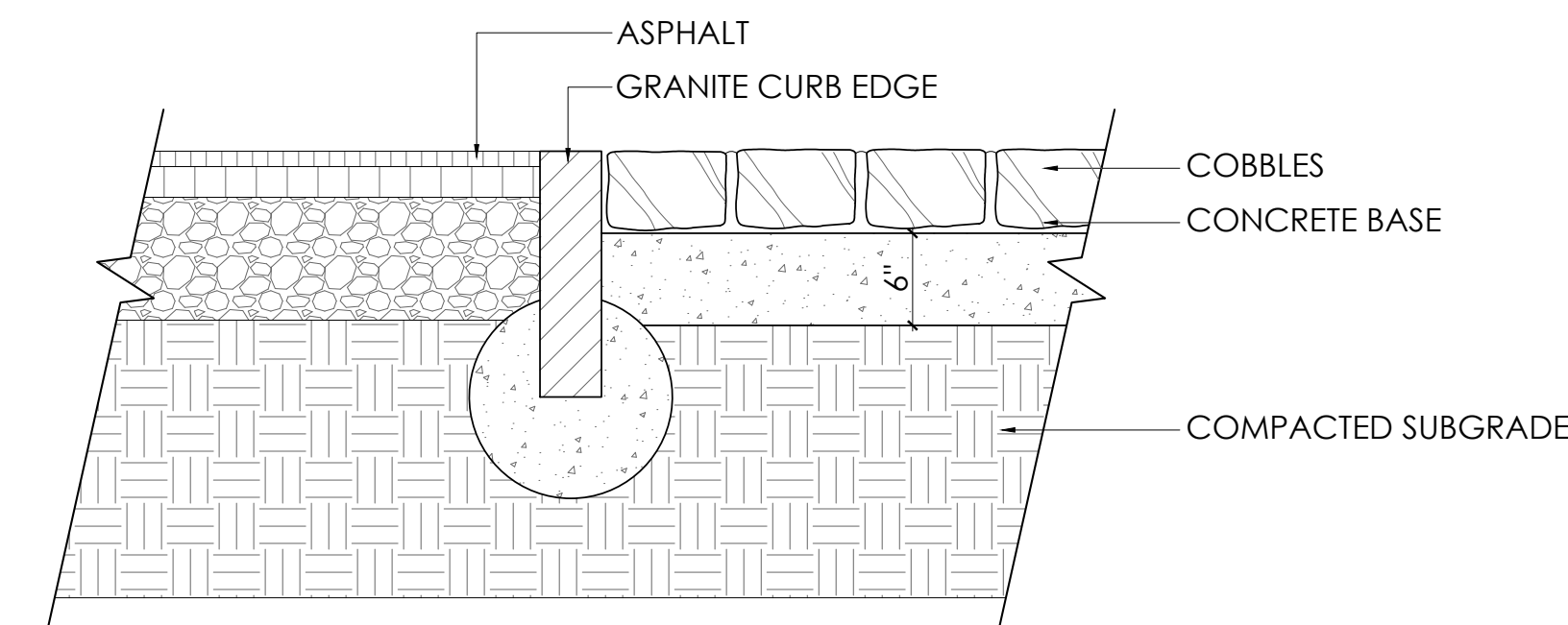
1 CONCRETE PAVERS
L-3.0 SCALE: 1" = 1'-0"

SECTION



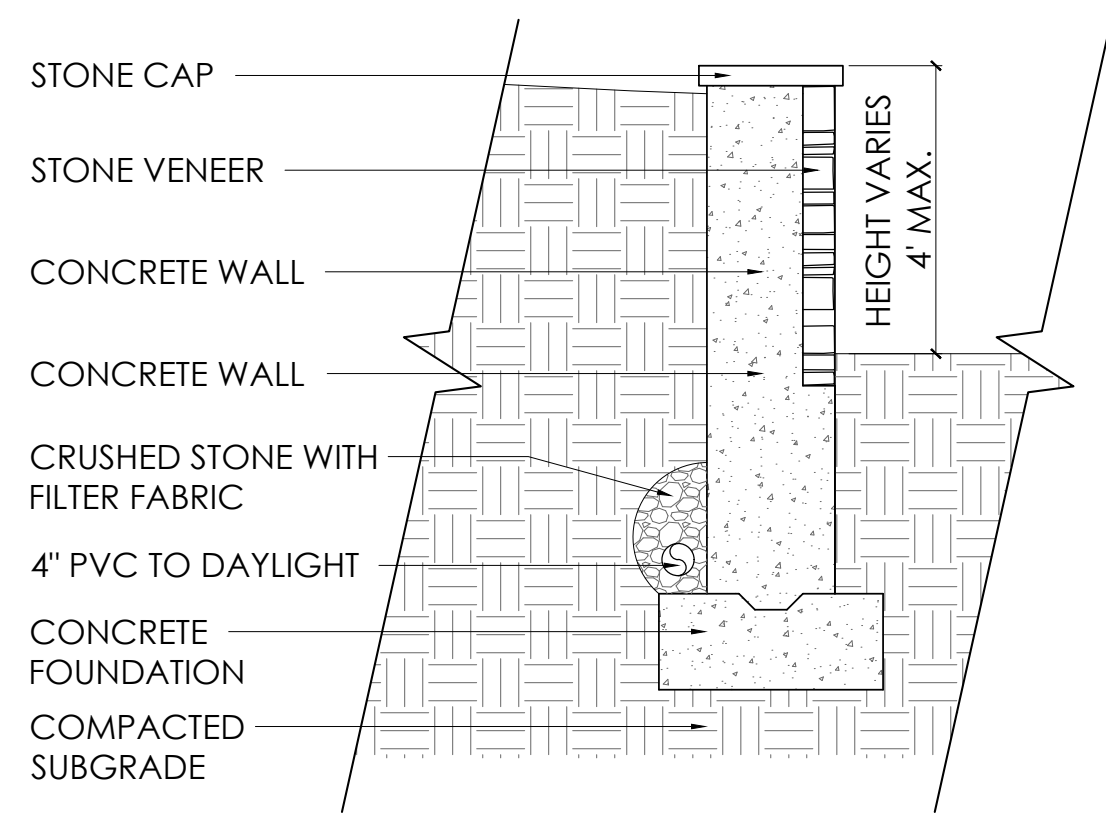
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L-3.0 SCALE: 1" = 1'-0"

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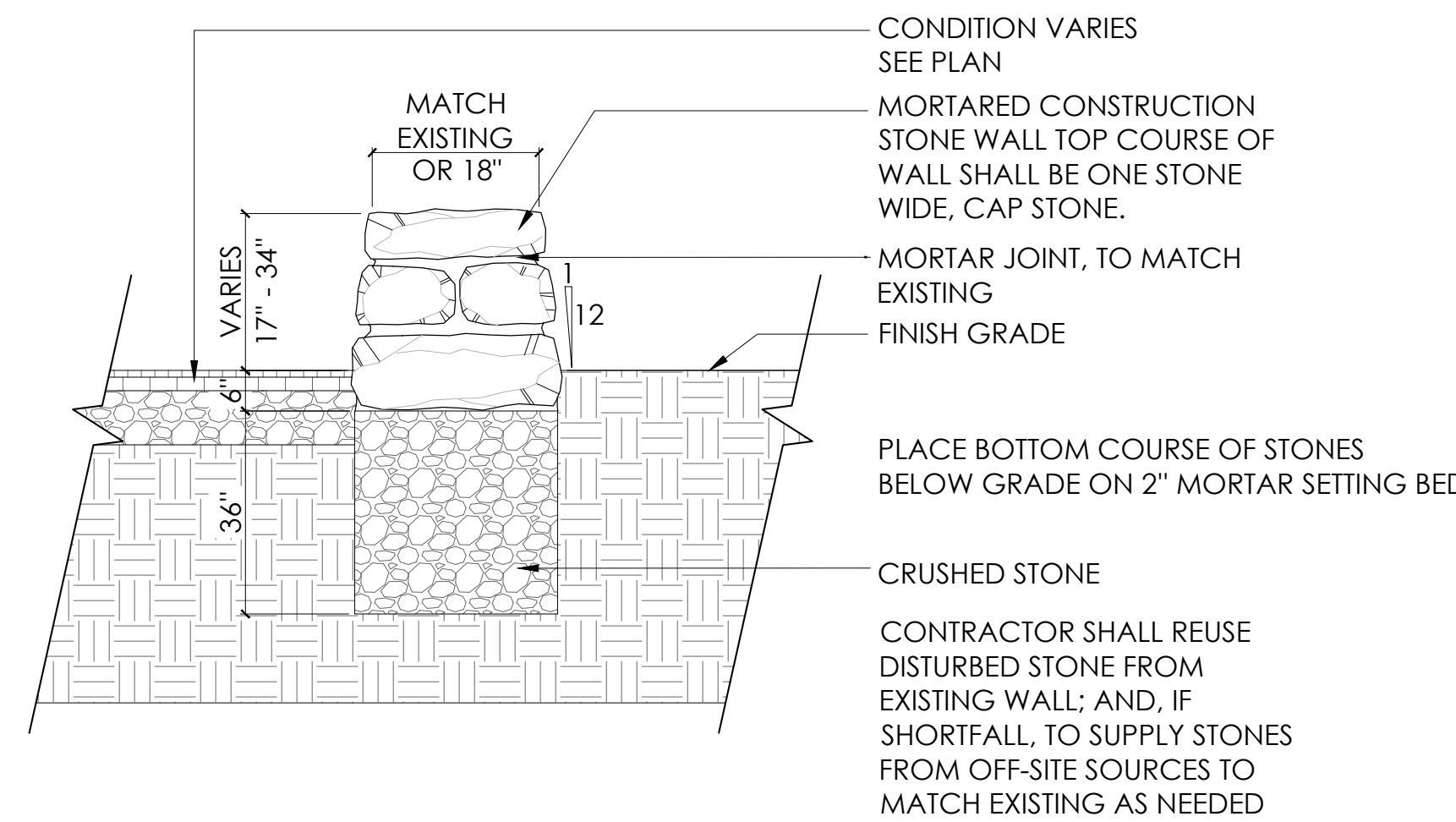
3 COBBLE STRIP
L-3.0 SCALE: 1" = 1'-0"

SECTION



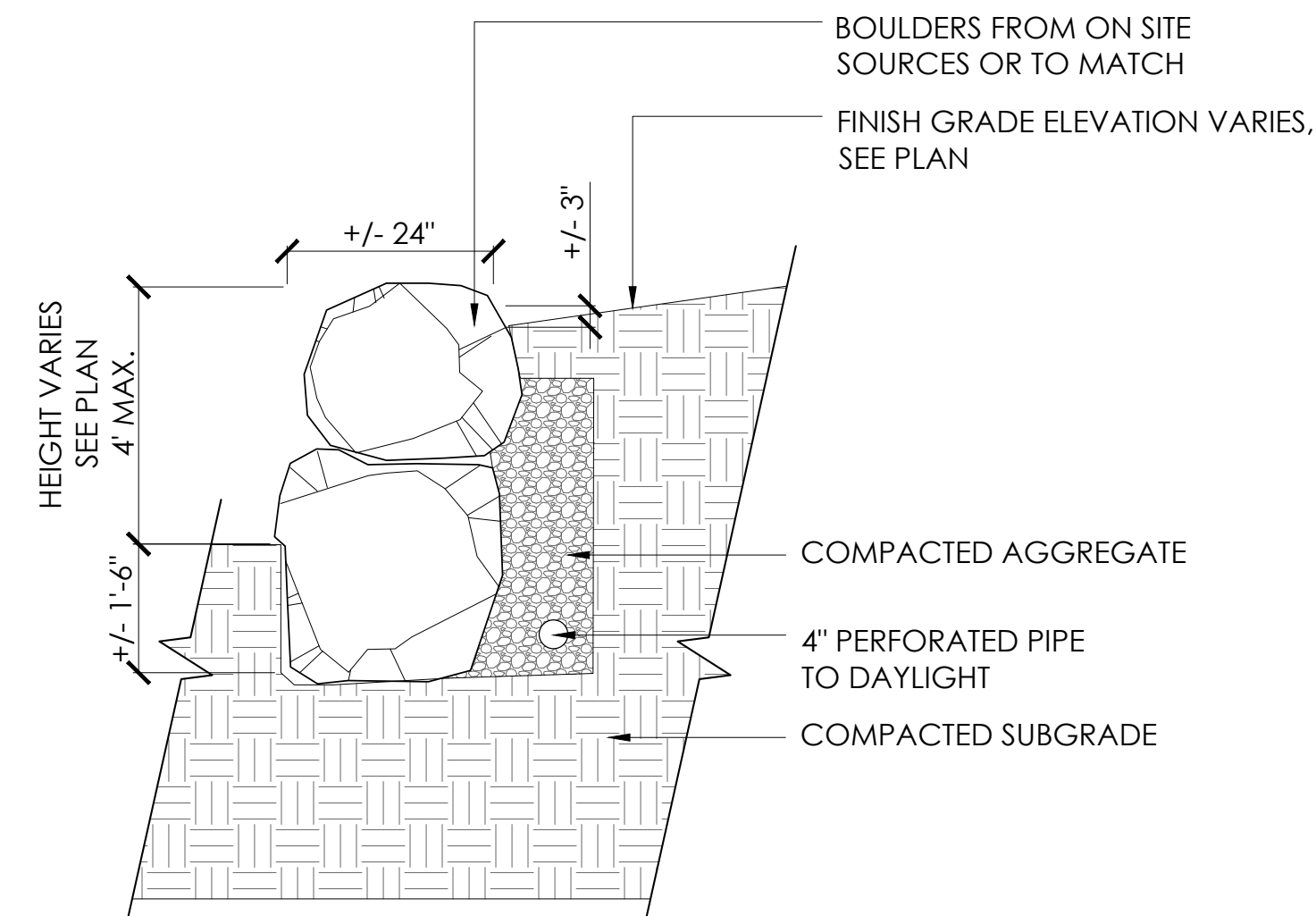
4 LANDSCAPE WALL - CONCRETE W/ STONE VENEER
L-3.0 SCALE: 1/2" = 1'-0"

SECTION



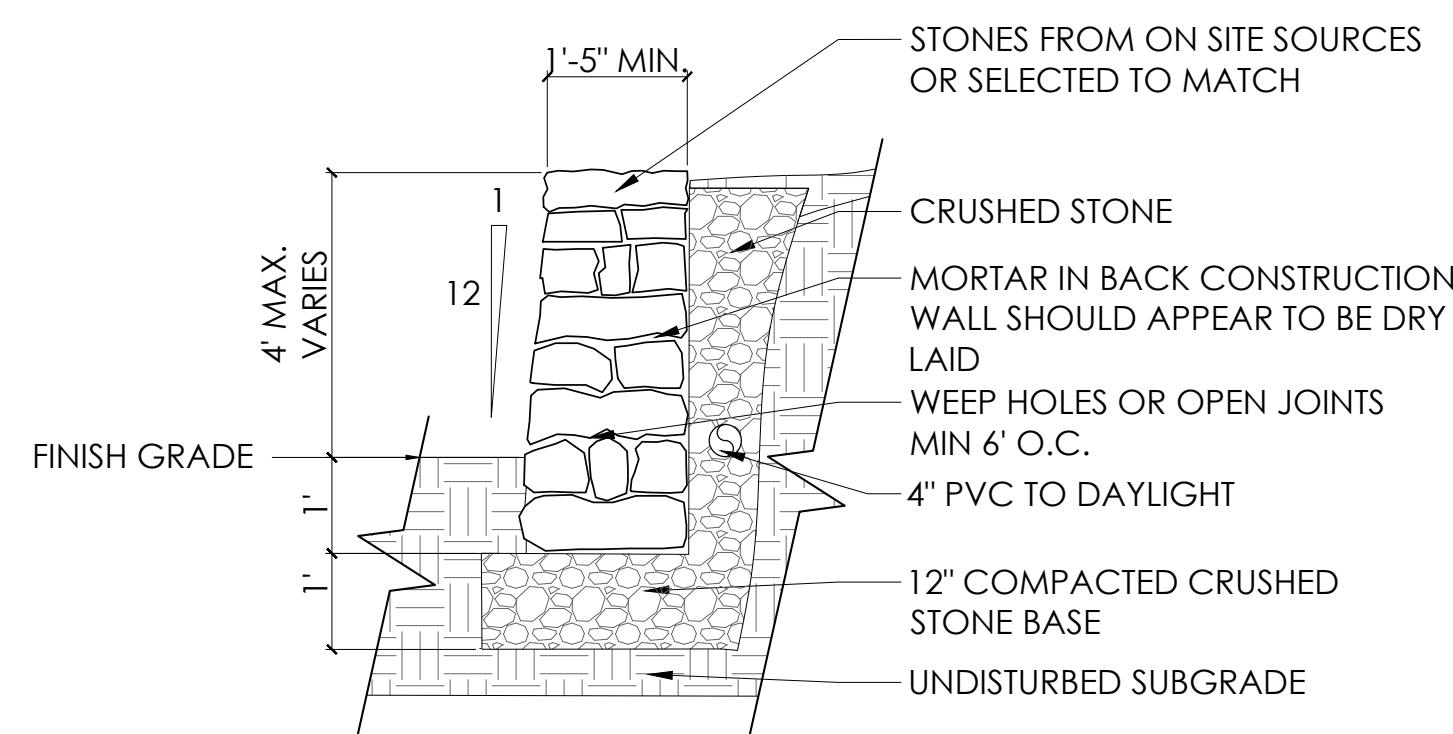
5 MORTARED WALL - FREE STANDING
L-3.0 SCALE: 1/2" = 1'-0"

SECTION



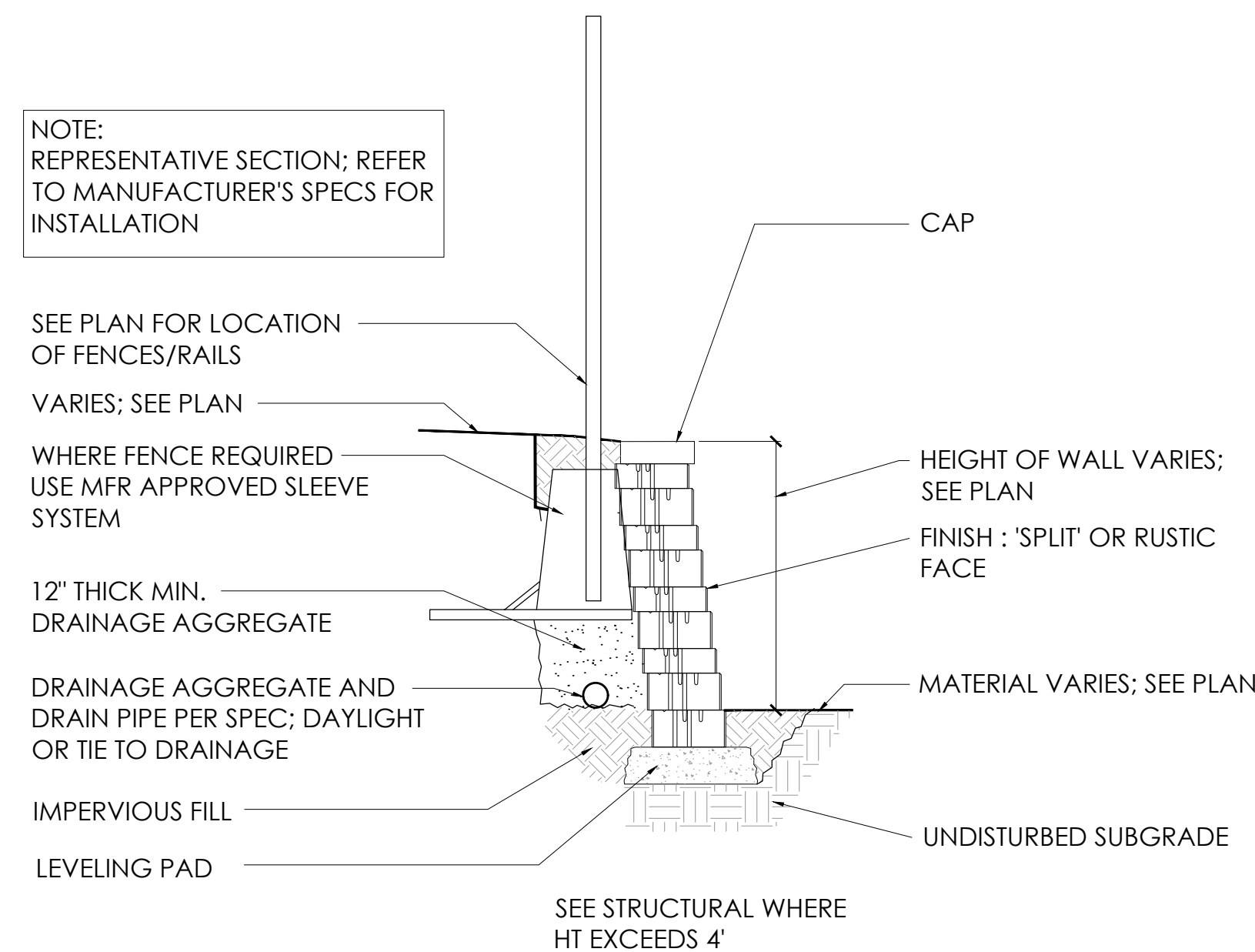
6 LANDSCAPE WALL - DRY STACKED BOULDERS
L-3.0 SCALE: 1/2" = 1'-0"

SECTION



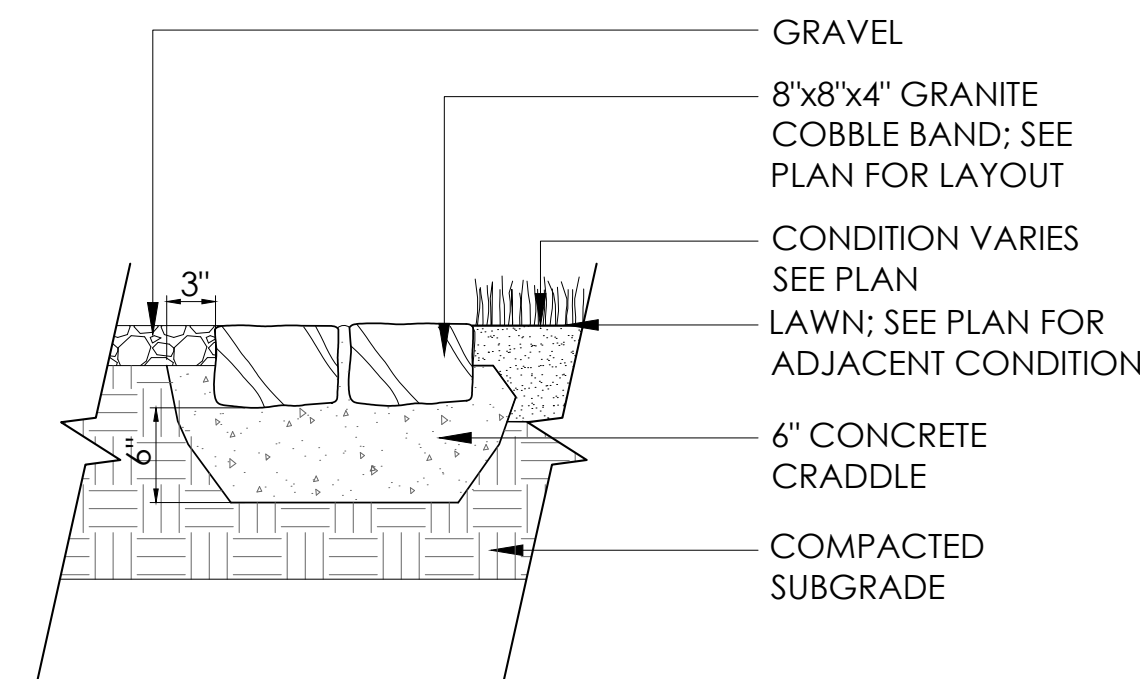
7 LANDSCAPE WALL - MORTAR WALL
L-3.0 SCALE: 1/2" = 1'-0"

SECTION



8 Modular Block Wall
L-3.0 SCALE: 1/2" = 1'-0"

SECTION



9 COBBLE EDGE
L-3.0 SCALE: 1" = 1'-0"

SECTION

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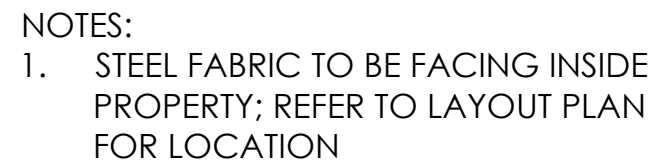
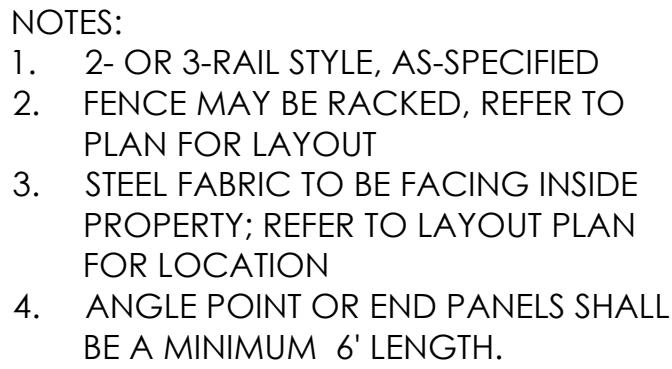
RYAN

Rocky Hill
Amesbury, MA

TYPICAL DETAILS
Landscape

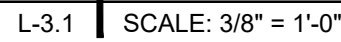
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L-3.1 SCALE: 3/8" = 1'-0"

SECTION



SECTION



L-3.1 SCALE: 1/2" = 1'-0"

SECTION

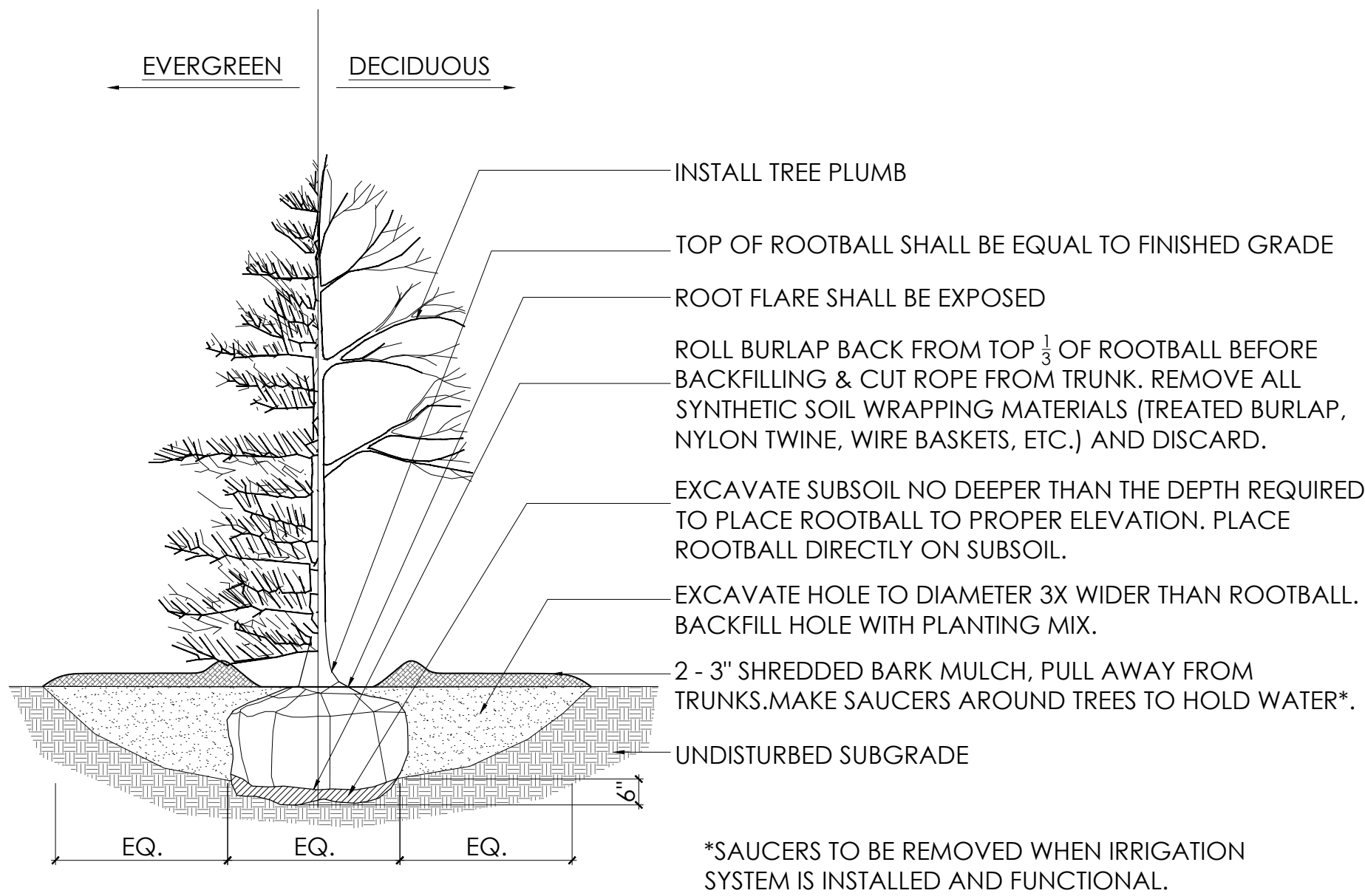


SECTION

PSS0667625EN page
July 11, 2025 10:10 A

PSS0667625EN page
July 11, 2025 12:00 A

PS50667625EN page 2
July 11, 2025 10:10 AM

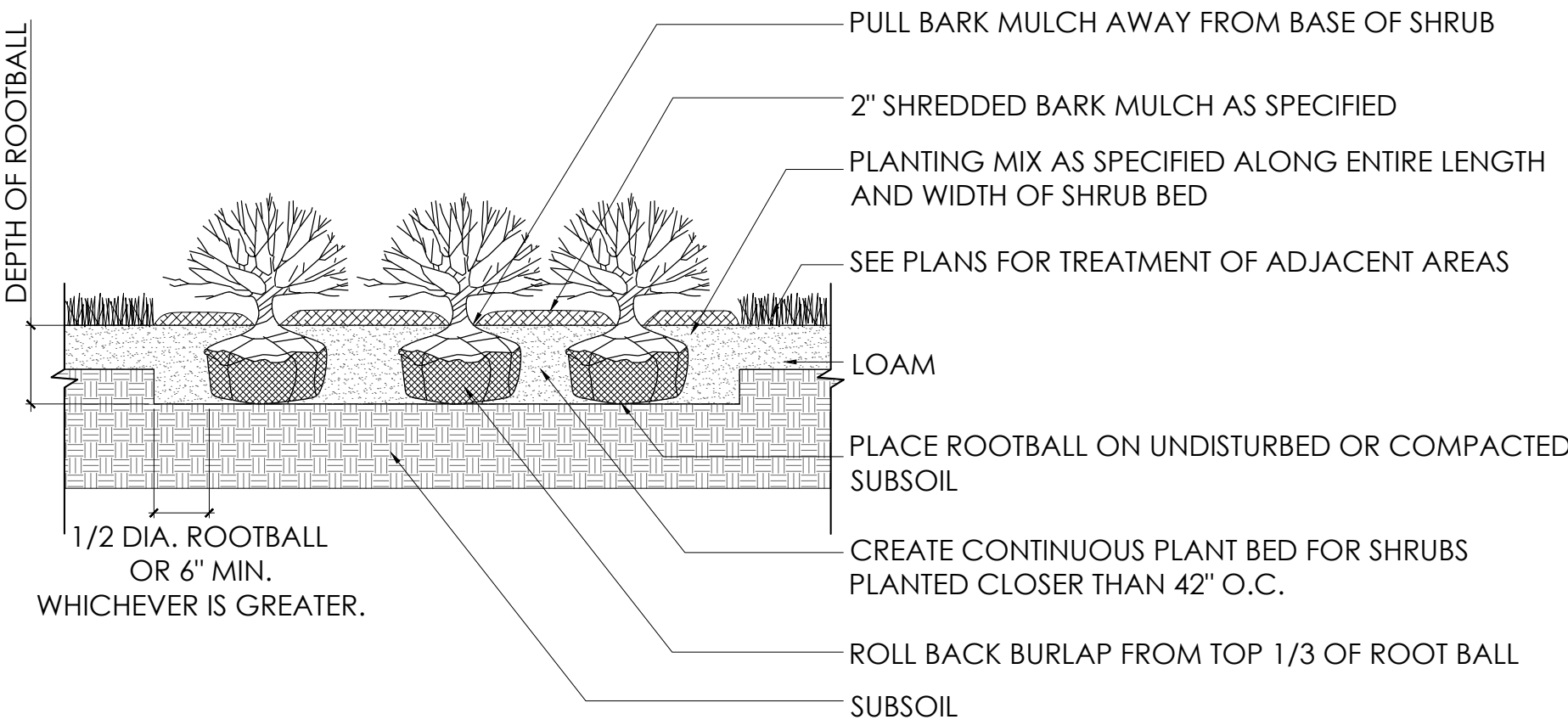


NOTE: STAKED/GUYED PER CONTRACTOR'S OPTION.

1 TREES

L-3.2 SCALE: 3/8" = 1'-0"

SECTION

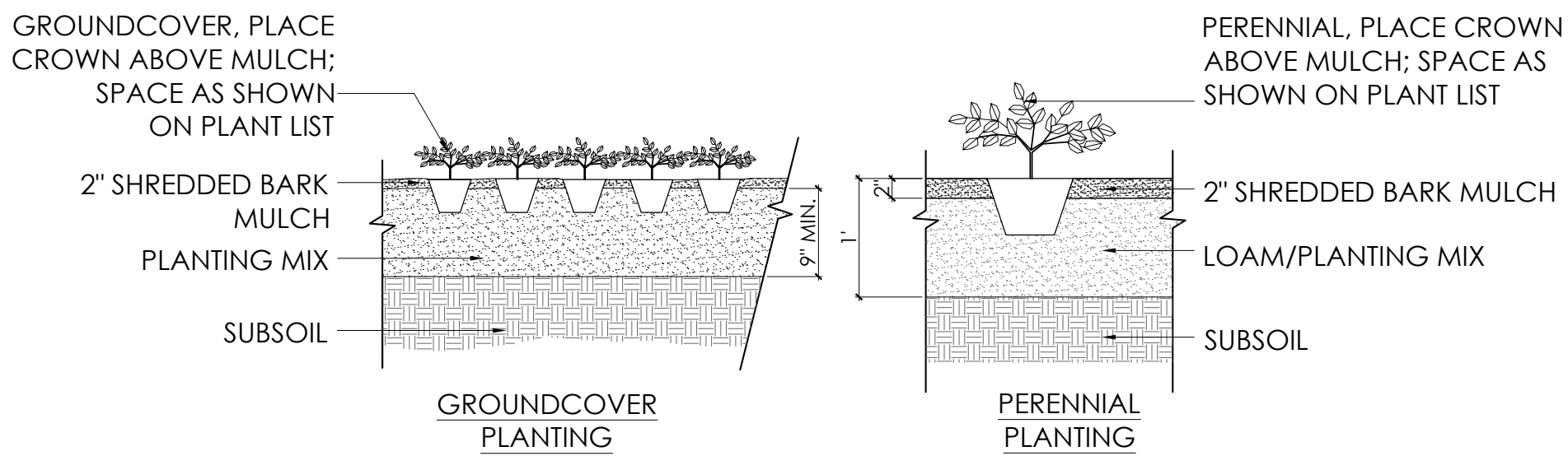


NOTE: SEE PLANTING PLAN FOR PLANT SPACING. PLANTS TO BEAR SAME RELATIONSHIP TO FINISHED GRADE AS TO PREVIOUS GRADE.

2 SHRUBS

L-3.2 SCALE: 3/8" = 1'-0"

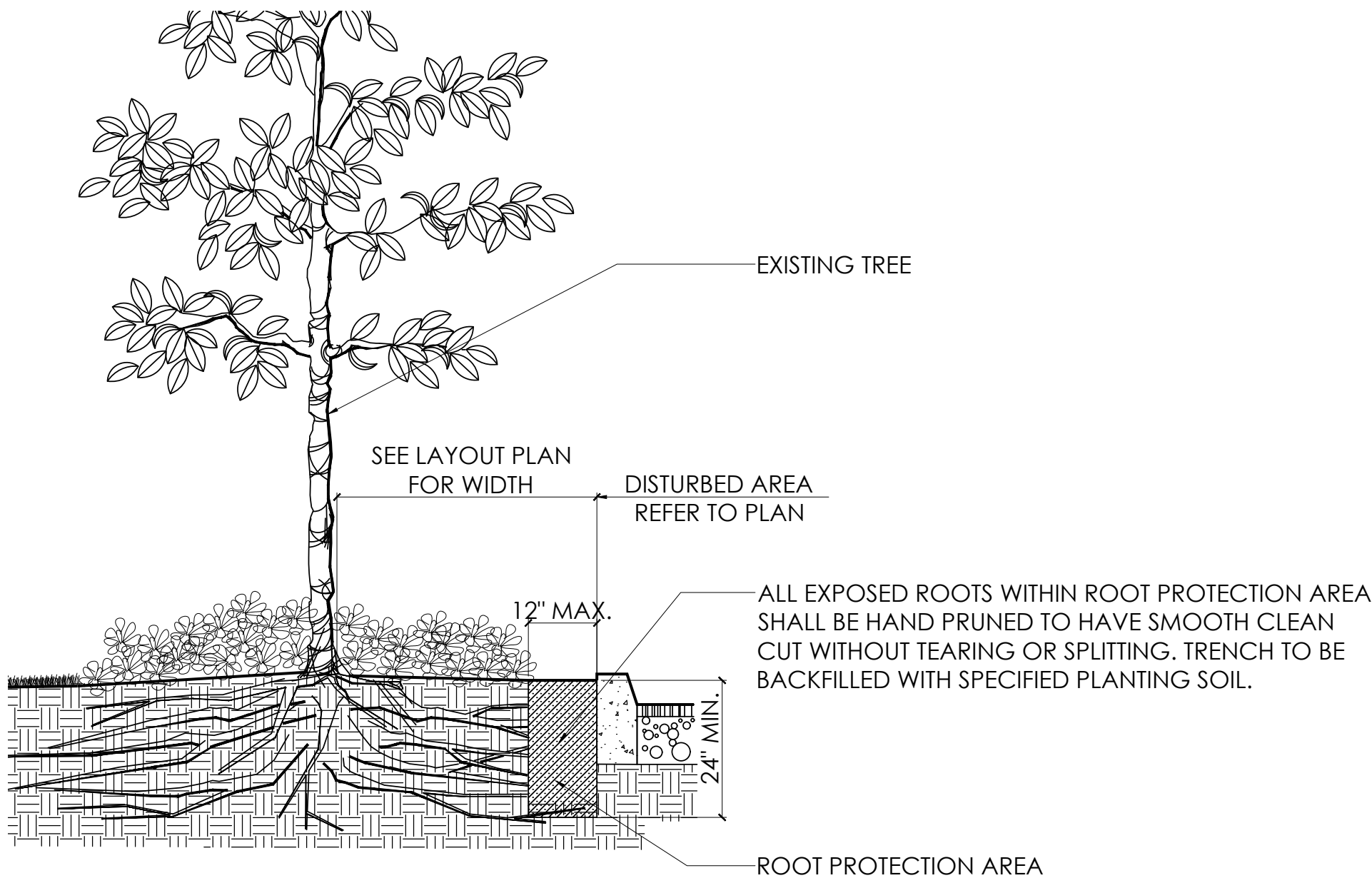
SECTION



3 GROUNDCOVER AND PERENNIALS

L-3.2 SCALE: 3/4" = 1'-0"

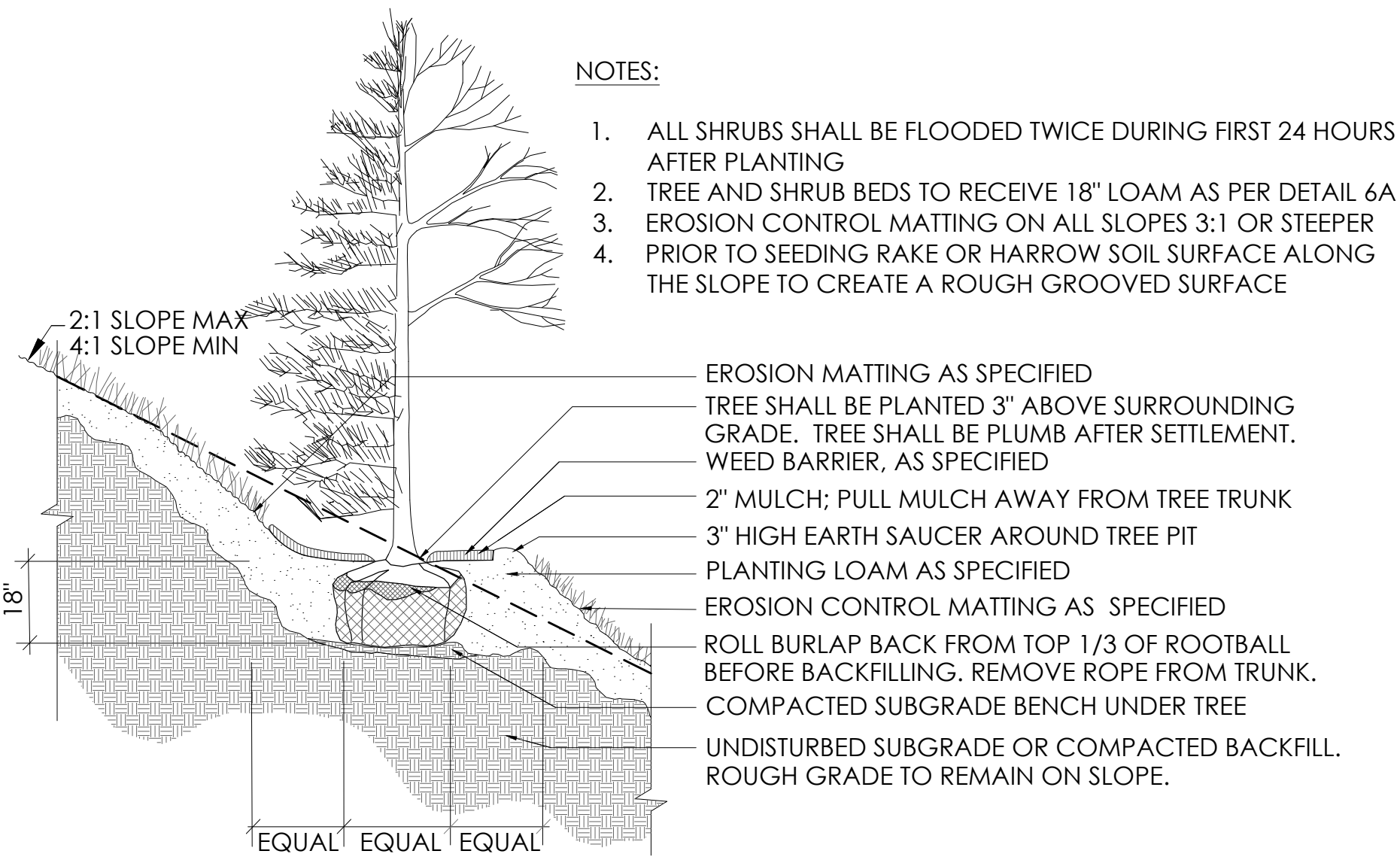
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4 EXCAVATION NEAR EXISTING TREE

L-3.2 SCALE: 1/2" = 1'-0"

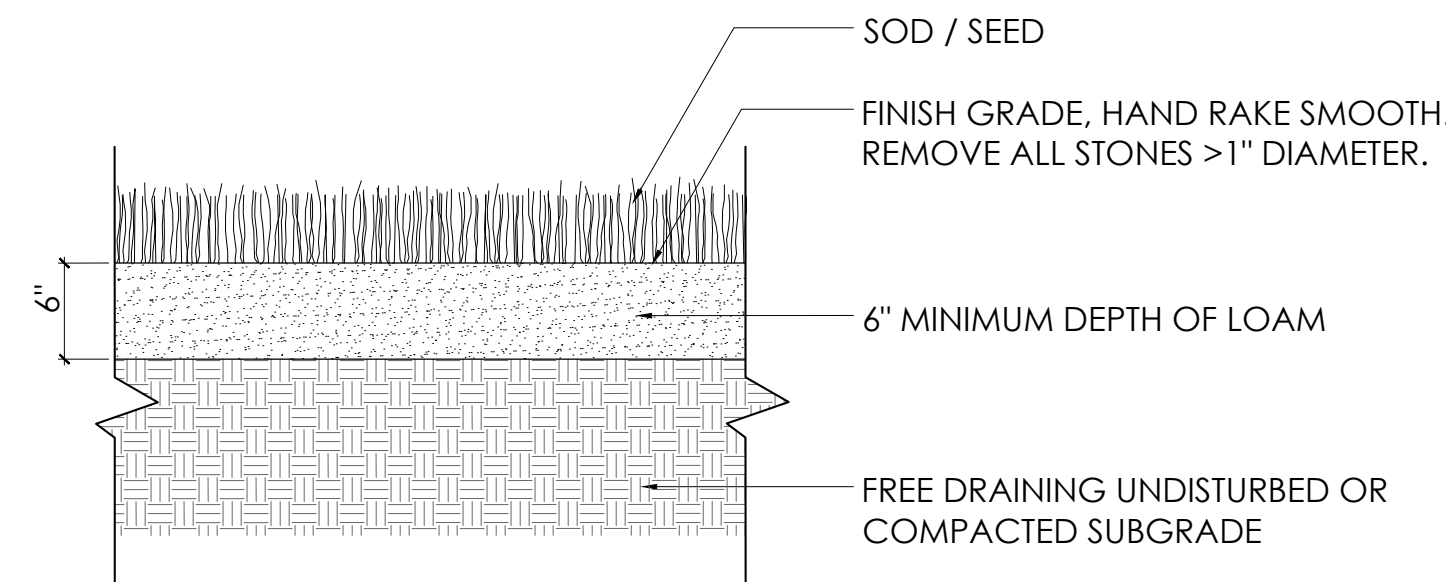
SECTION



5 TREE ON SLOPE

L-3.2 SCALE: 3/8" = 1'-0"

SECTION



6 SOD/ SEED

L-3.2 SCALE: 1" = 1'-0"

SECTION

SITE DAINAGE BASIN SEED MIX

NEW ENGLAND EROSION CONTROL/ RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES

SPECIES INCLUDE: RIVERBANK WILD RYE (ELYMUS RIPARIUS), CREEPING RED FESCUE (FESTUCA RUBRA), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), BIG BLUESTEM (ANDROPOGON GERARDII), SWITCH GRASS (PANICUM VIRGATUM), UPLAND BENTGRASS (AGROSTIS PERENNANS), NODDING BUR MARIGOLD (BIDENS CERNUA), HOLLOW-STEM JOE PYE WEED (EUPATORIUM FISTULOSUM/EUTROCHIUM FISTULOSUM), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), BONESET (EUPATORIUM PERFOLIATUM), BLUE VERVAIN (VERBENA HASTATA), SOFT RUSH (JUNCUS EFFUSUS), WOOL GRASS (SCIRPUS CYPERINUS).

OPEN FIELD RESTORATION SEED MIX

NEW ENGLAND WILDFLOWER MIX

SPECIES INCLUDE: SPECIES: LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), RED FESCUE (FESTUCA RUBRA), INDIAN GRASS (SORGHASTRUM NUTANS), PARTRIDGE PEA (CHAMAECRISTA FASCICULATA), CANADA WILD RYE (ELYMUS CANADENSIS), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), BLUE VERVAIN (VERBENA HASTATA), BUTTERFLY MILKWEED (ASCLEPIAS TUBEROSA), NARROWLEAFED BLUE EYED GRASS (SISYRINCHIUM ANGUSTIFOLIUM), BLACK EYED SUSAN (RUDBECKIA HIRTA), NEW ENGLAND ASTER (SYMPHYOTRICHUM NOVAE-ANGLIAE), SPIKED GAYFEATHER/ MARSH BLAZING STAR (LIATRIS SPICATA), STARVED/CALICO ASTER (ASTER LATERIFLORUS/SYMPHYOTRICHUM LATERIFLORUM), EARLY GOLDENROD (SOLIDAGO JUNCEA), HOLLOW-STEM JOE PYE WEED (EUPATORIUM FISTULOSUM/EUTROCHIUM FISTULOSUM)

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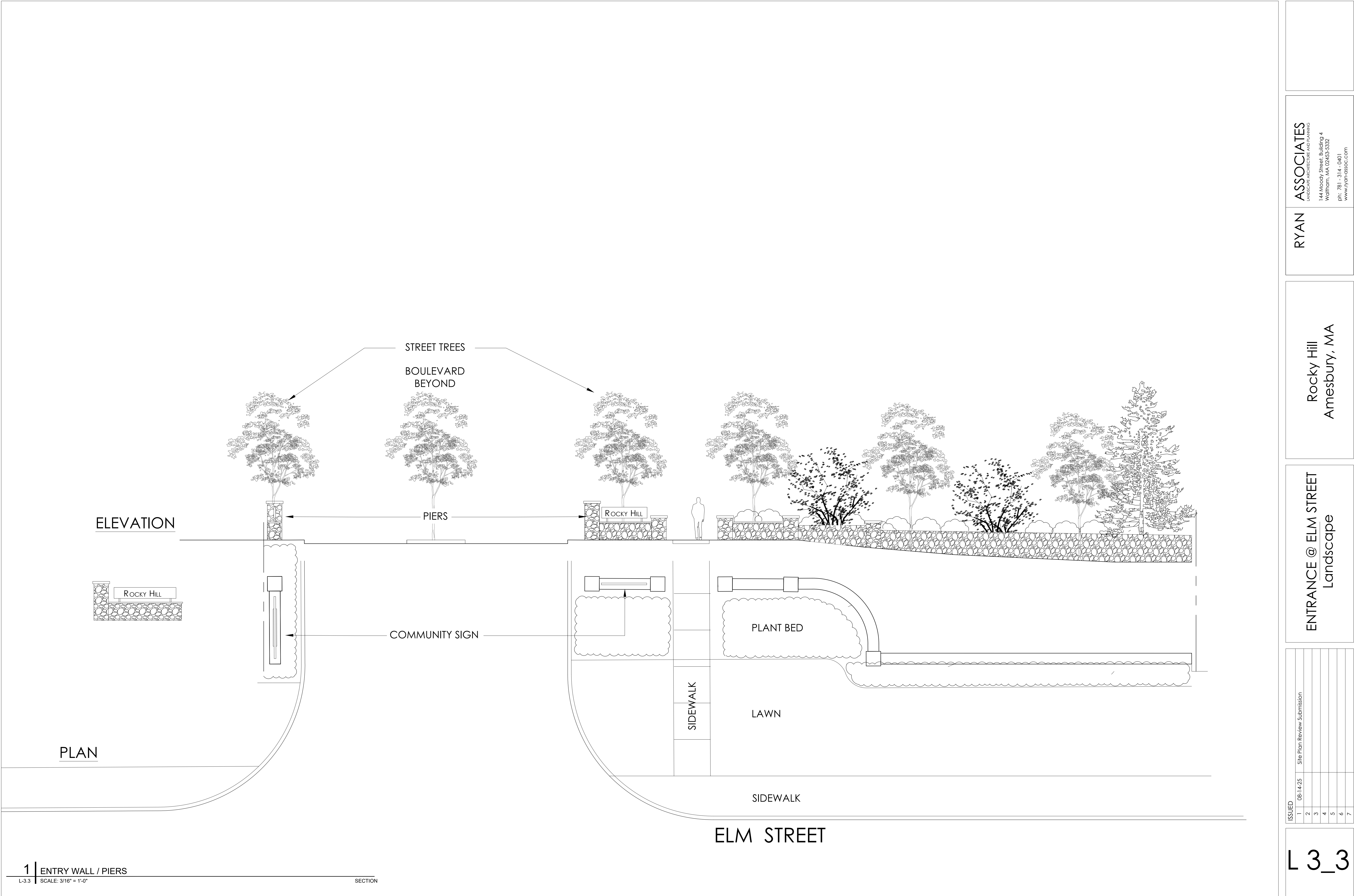
RYAN

Rocky Hill
Amesbury, MA

TYPICAL DETAILS
Landscape

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