



Planning Board AGENDA

Thursday, November 7, 2024 - 6:00 PM

Regular Meeting
Agawam Senior Center
954 Main Street
Agawam, MA 01001

A. Planning Board

- 1) **1. 6:00PM PUBLIC HEARING – ZONE CHANGE – 71 Maynard/131 Coronet Circle – Savonin**
- 2) 2. SITE PLAN – 404 Silver Street – Silver Street Energy Storage, LLC c/o New Leaf Energy, Inc
- 3) 3. SITE PLAN – 1422-1444 Main Street – Shields Hotel
- 4) 4. SITE PLAN – 195 South Westfield Street – Aljanabi
- 5) 5. APPROVAL OF MINUTES October 17, 2024
- 6) 6. Correspondences



AGAWAM CITY COUNCIL

36 MAIN STREET

AGAWAM, MASSACHUSETTS 01001

413-726-9716 Office

413-726-9717 Fax

www.agawam.ma.us

COUNCIL PRESIDENT *Rosemary Sandlin*

COUNCIL VICE PRESIDENT *Anthony J. Russo*

COUNCILORS

*George Bitzas – Edward Borgatti – Thomas D. Hendrickson – Dino R. Mercadante – Robert E. Rossi
Gerald F. Smith – Peter Smus – Anthony R. Suffriti – Maria Valego*

ADMINISTRATIVE ASSISTANT – *Barbara A. Bard* bbard@agawam.ma.us

October 8, 2024

Agawam Planning Board
Town Hall
36 Main Street
Agawam, MA. 01001

Re: **ZC-2024-2**

Dear Members of the Agawam Planning Board:

The Agawam City Council has referred the following zone change to the Agawam Planning Board for you to hold a public hearing and make a recommendation. The City Council will hold their public hearing on the same on November 18, 2024.

- **ZC-2024-2 - Petition for Zone Change by Viktor Savonin for property located at 131 Coronet Circle f/k/a 71 Maynard Street (Assessor Parcel ID: H15-1-8) from the Agricultural District to the Resident A-1 District**

If you have any questions, please do not hesitate to contact me.

Sincerely,

Rosemary Sandlin, President
Agawam City Council

RS/bb

cc: Full Council
Mayor
Solicitor
Planning

POWERS & LIQUORI
ATTORNEYS AT LAW
84 PARK STREET
WEST SPRINGFIELD, MASSACHUSETTS 01089-3336
TELEPHONE (413) 739-1200
FACSIMILE (413) 739-1232

MICHAEL J. POWERS, ESQ.
(Retired June 1, 2016)

GARY B. LIQUORI, ESQ.
attygliquori@gmail.com

VIA E-MAIL ONLY (bbard@agawam.ma.us)

September 18, 2024

Ms. Barbara Bard
City Council Clerk, Chief of Staff, Mayor's Office
Town of Agawam
36 Main Street
Agawam, MA 01001

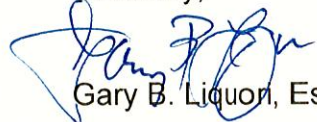
Re: *Petition for Zone Change Plan for Viktor Savonin at 71 Maynard Street, Agawam, Massachusetts/131 Coronet Circle, Feeding Hills, Massachusetts*

Dear Ms. Bard:

Pursuant to the Town of Agawam's Suggested Procedure for Seeking a Zone Change, I am submitting this Petition for a Zone Change on 71 Maynard Street, Agawam/131 Coronet Circle, Feeding Hills, Massachusetts, to you first as the City Council Clerk and Chief of Staff for the Mayor's Office. A reduced size of the Zone Change Plan is being sent to you and the Town Planner. Three full-sized copies of the Zone Change Plan and one electronic copy will be submitted to the Agawam City Council tomorrow with a filing fee of \$500.00.

Please call me at (413) 739-1200 or e-mail me at attygliquori@gmail.com to confirm that I can file the Petition with the Agawam City Council.

Sincerely,


Gary B. Liquori, Esq.

GBL/tlo
Enclosures

cc: Ms. Pamela Kerr (w/Enclosures) via e-mail only PKerr@agawam.ma.us

**Viktor Savonin
131 Coronet Circle
Feeding Hills, MA 01001**

September 18, 2024

Agawam City Council
36 Main Street
Agawam, MA 01001

Dear Members of the Agawam City Council:

This letter includes my Petition for a Zone Change on my property at 71 Maynard Street, Agawam/131 Coronet Circle, Feeding Hills, Massachusetts.

VIKTOR SAVONIN'S PETITION TO AGAWAM CITY COUNCIL FOR ZONE CHANGE

Viktor Savonin of 131 Coronet Circle Feeding Hills, Massachusetts, hereby petitions the Agawam City Council for a zone change of his property at 71 Maynard Street, Agawam/131 Coronet Circle, Feeding Hills, Massachusetts. This parcel is a 35,094 square foot parcel that was formerly 119 Maynard Street, but now known as 71 Maynard Street although the Petitioner has built a 2,166 square foot colonial home on said parcel with that section now being his home at 131 Coronet Circle, Feeding Hills, Massachusetts. The Petitioner is seeking a zone change from Agricultural to Residence A-1. A plan of land (3 copies and 1 electronic copy) by Edward Chapdelaine of Durkee, White, Towne and Chapdelaine of 356 Front Street, Chicopee, Massachusetts, is attached to this Petition.

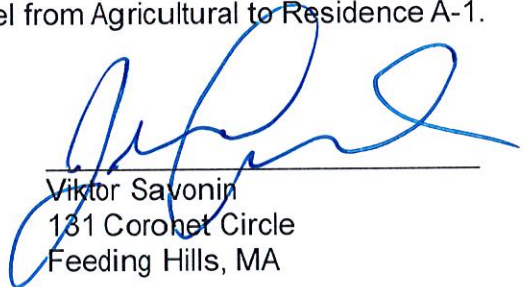
The 35,094 square foot Parcel is located about 1,000 feet north of North Street, Agawam, Massachusetts, and now is on the corner of Coronet Circle and Maynard Street. The parcel is north of Coronet Circle. I am also enclosing an overlay of the area

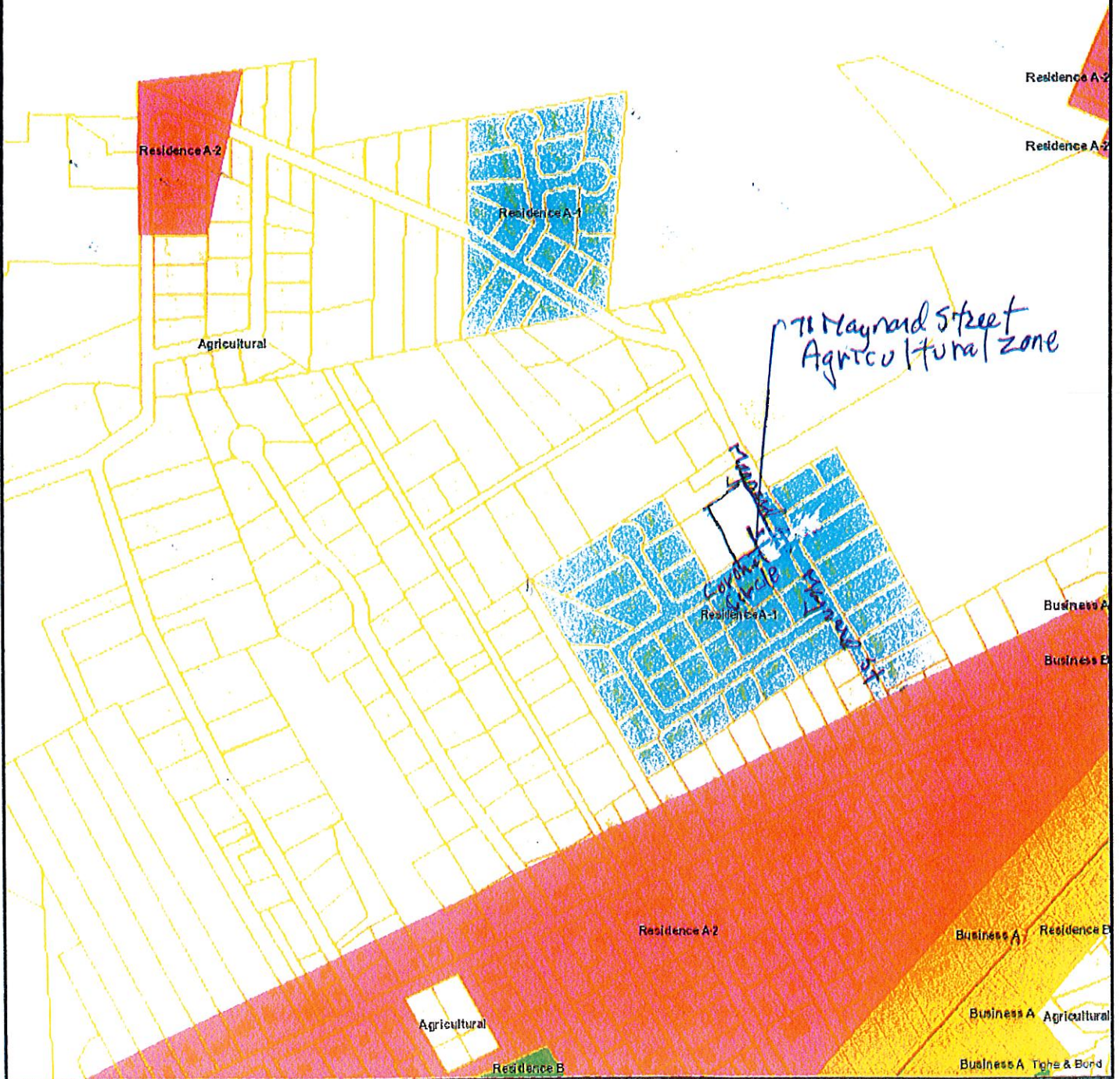
which clearly shows that the currently zoned Agricultural property of 71 Maynard Street, Agawam/131 Coronet Circle, Feeding Hills, Massachusetts, is almost completely surrounded by Residence A-1 property; see attached Exhibit "1". Thus, the proposed zone change will make what once could be called patchwork zoning area to a more clear and consistent zoning picture in that area. This change will also add to the future development of the northern section of the lot with a new proposed 1,600 to 1,800 square foot colonial that will fit in well with the surrounding Residence A-1 neighborhood.

Also, attached to this Petition is a current legal description for 71 Maynard Street, Agawam/131 Coronet Circle, Feeding Hills, Massachusetts as Exhibit "2".

Thus, the Petitioner, Viktor Savonin, hereby requests the Agawam City Council to change the zoning on this 35,094 square foot parcel from Agricultural to Residence A-1.

September 18, 2024
Date


Viktor Savonin
131 Coronet Circle
Feeding Hills, MA



6/17/2024 10:58:05 AM

Scale: 1"=500'

Scale is approximate

The information depicted on this map is for planning purposes only.
It is not adequate for legal boundary definition, regulatory
interpretation, or parcel-level analyses.

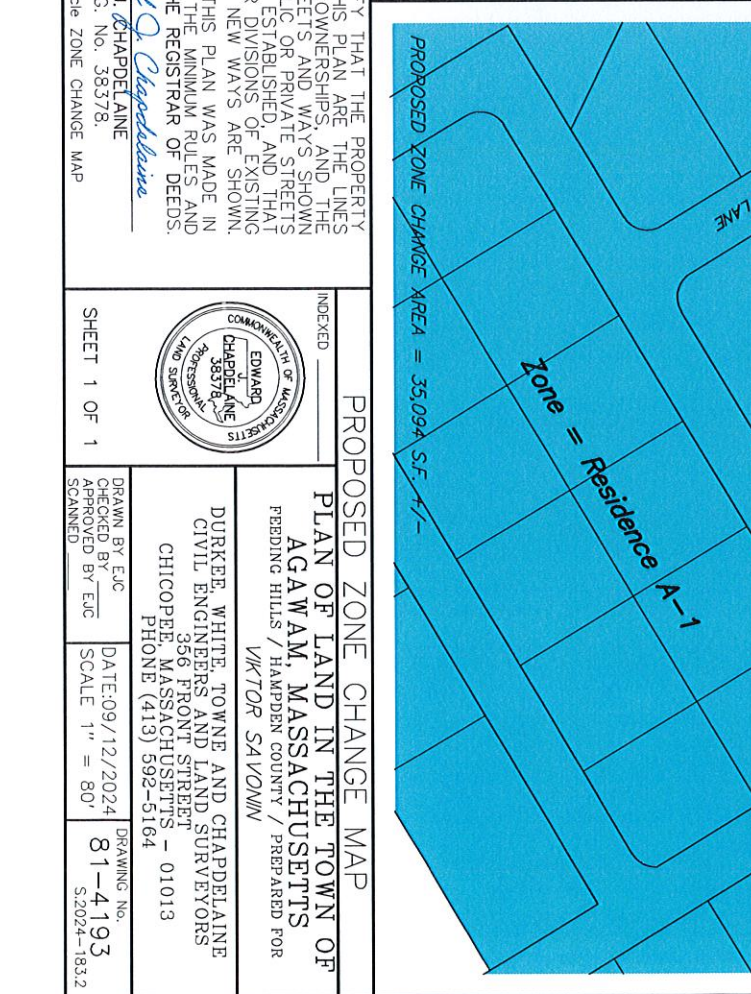
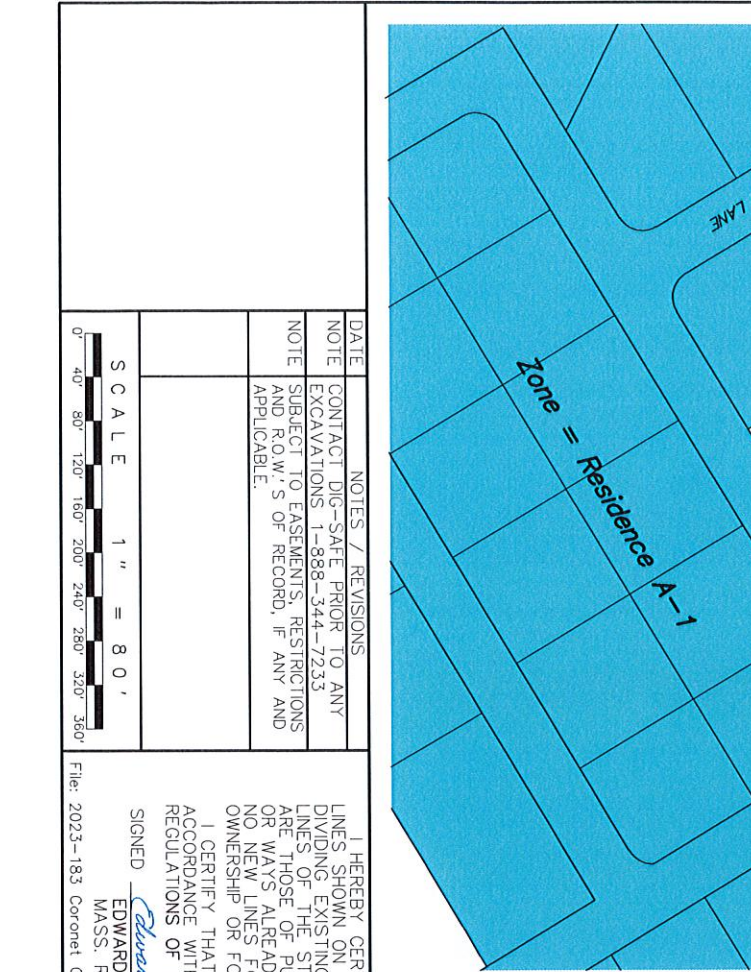


Exhibit "2"

Certain real estate situated in Agawam, Hampden County, Massachusetts bounded and described as follows:

Beginning at an iron pipe on the westerly side of Maynard Street (formerly known as Deep Gutter Road), at the northeasterly corner of the tract hereby conveyed and being the southeasterly corner of land now or formerly of Fred Maynard; and running thence SOUTH 22° 30' EAST along said road, two hundred twelve (212) feet to an iron pipe; thence SOUTH 56° 35' WEST one hundred seventy-five (175) feet to land now or latterly of Paul Desrosiers, et us; thence NORTH 22° 30' WEST along last named land, two hundred twelve (212) feet to an iron pipe at land now or formerly of said Fred Menard; and thence NORTH 56° 35' EAST along last name land, one hundred seventy-five (175) feet to the place of beginning.

Being the premises formerly known as 119 Maynard Street; now known as 71 Maynard Street.



DATE	NOTES / REVISIONS
NOTE	CONTACT DIG-SAFE PRIOR TO ANY EXCAVATIONS 1-888-344-7233
NOTE	SUBJECT TO EASEMENTS, RESTRICTIONS AND ROW'S OF RECORD, IF ANY AND APPLICABLE.

I HEREBY CERTIFY THAT THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF THE STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISIONS OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

I CERTIFY THAT THIS PLAN WAS MADE IN ACCORDANCE WITH THE MINIMUM RULES AND REGULATIONS OF THE REGISTRAR OF DEEDS.

SIGNED Edward J. Chapdelaine
 EDWARD J. CHAPDELAINE
 MASS. REG. NO. 38378.
 File: 2023-183 Coronet Circle ZONE CHANGE MAP

INDEXED _____

SHEET 1 OF 1

PROPOSED ZONE CHANGE MAP

PLAN OF LAND IN THE TOWN OF AGAWAM, MASSACHUSETTS

FEEDING HILLS / HAMDEN COUNTY / PREPARED FOR VIKTOR SAVONIN

DURKEE WHITE TOWNE AND CHAPDELAINE
 CIVIL ENGINEERS AND LAND SURVEYORS
 356 FRONT STREET
 CHICOPEE, MASSACHUSETTS - 01013
 PHONE (413) 592-5164

DRAWN BY EJC
 CHECKED BY EJC
 DATE: 09/12/2024
 SCALE 1" = 80'

DRAWING No. 81-4193
 S.2024-183.2



Kevin Duquette
Inspector of Buildings
inspections@agawam.ma.us

Town of Agawam
Inspection Services Department
1000 Suffield Street, Agawam, Massachusetts 01001
Telephone - (413) 821-0632

October 21, 2024

To: Office of Planning and Community Development:

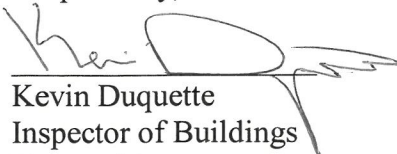
Re: Revised Site Plan Review comments- 404 Silver Street Agawam, MA 01001;

Inspection Services has no zoning issues or concerns at this time for the proposed project for the above referenced address.

The following would need to be addressed for site plan review criteria;

- A Form-A (ANR) would be required to split the parcels for the proposed project.

Respectfully,


Kevin Duquette
Inspector of Buildings
Town of Agawam

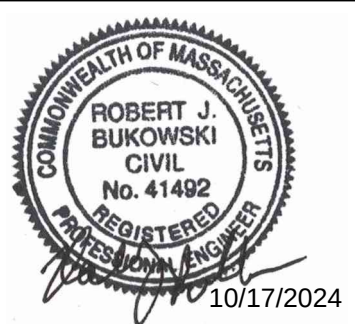
GENERAL CIVIL NOTES

ABBREVIATIONS

THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE RENEWABLE ENERGY PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.



TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851
PHONE: (800) 818-5249
FAX: (888) 678-8991
WWW.NEWLEAFENERGY.COM



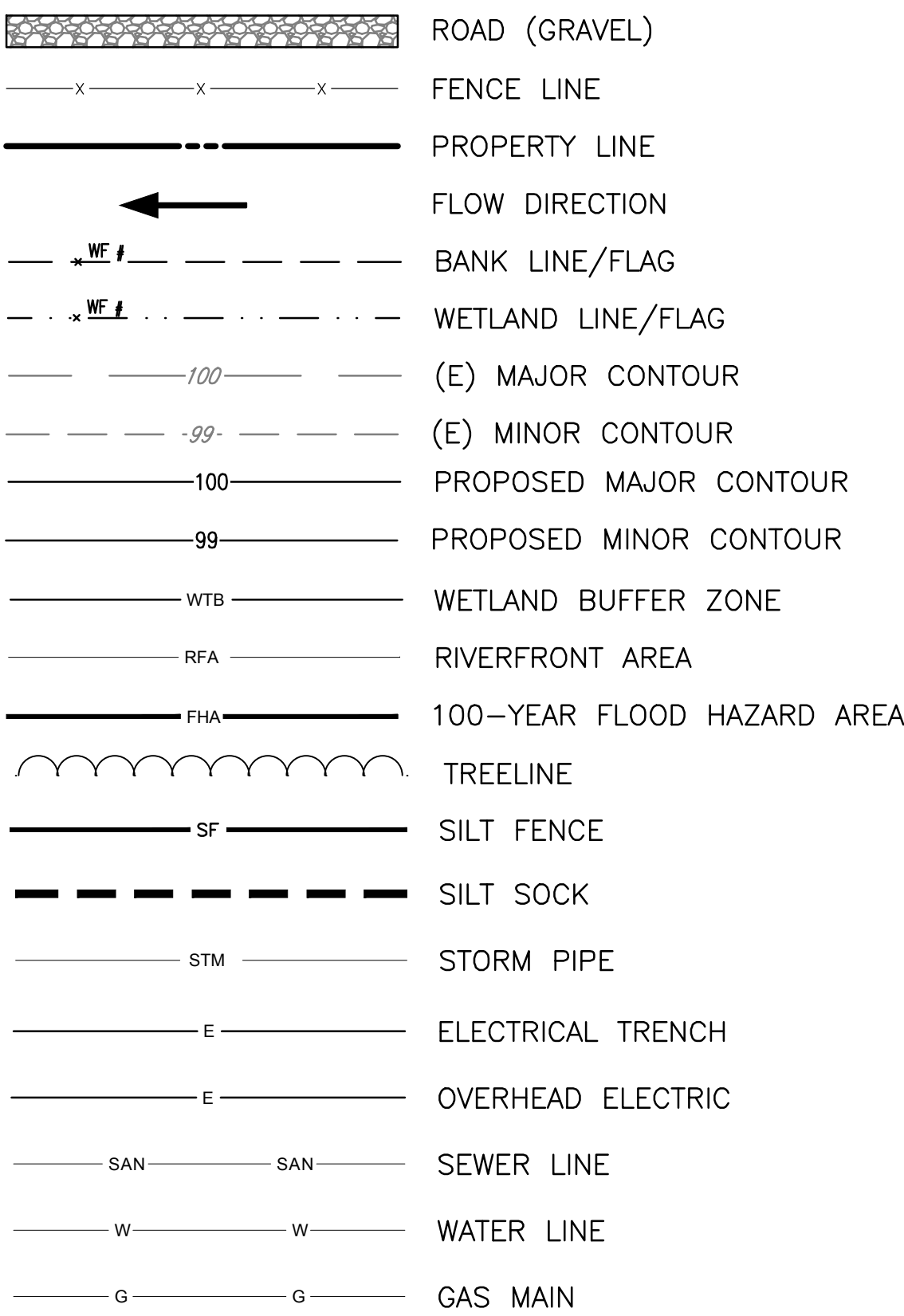
NOT FOR
CONSTRUCTION



WESTON & SAMPSON ENGINEERS, INC.
55 WALKERS BROOK DRIVE, SUITE 100
READING, MA 01867
978.532.1900 800.SAMPSON
www.westonandsampson.com

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LEGEND



23-23A	ASSESSORS MAP—LOT
	SIGN
	UTILITY POLE (WITH GUY ANCHOR)
	HYDRANT
	WATER VALVE
	INDIVIDUAL TREE
FOUND 	PROPERTY MARKERS

NOTE: ITALIC FONTS INDICATE EXISTING CONDITIONS.
STANDARD FONTS INDICATE PROPOSED CONDITIONS.

SITE USE PERMIT SET
404 SILVER ST
AGAWAM, MA 01001

PROJECT NUMBER:
120-0339

REV	DATE	DRAWN	CHECKED	RELEASE	LEVEL
0	10/01/24	RWG	MRC	SITE USE PERMIT SET	
1	10/17/24	RWG	MRC	SPR FIRE DEPARTMENT COMMENTS	

SCALES STATED ON DRAWINGS
ARE VALID ONLY WHEN PLOTTED
ARCH D 24" X 36"

C-0.0

CIVIL NOTES

GENERAL NOTES

1. AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE THE EPC PROVIDER HIRED BY THE SYSTEM OWNER. "SUBCONTRACTOR" IS THE EPC PROVIDER'S INSTALLATION SUBCONTRACTORS (INCLUDING SITE WORK SUBCONTRACTOR) AND CIVIL ENGINEER OF RECORD (CEOR) IS THE EPC PROVIDER'S DESIGNATED CIVIL ENGINEER.
2. EXISTING CONDITIONS SURVEY INFORMATION WAS PREPARED BY NORTHEAST SURVEY CONSULTANTS PERFORMED ON 2/1/2022. HORIZONTAL DATUM IS REFERENCED TO THE MASSACHUSETTS COORDINATE SYSTEM NORTH AMERICAN DATUM 1983. VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988.
3. THERE IS NO GUARANTEE THAT ALL THE EXISTING UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT LIMITS ARE ON THIS DRAWING. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK. A DIG SAFE TICKET NUMBER INDICATING ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED SHALL BE OBTAINED PRIOR TO COMMENCING WORK. CONTACT "DIG SAFE SYSTEM, INC." AT 1-888-344-7233 AND PROVIDE 72 HOURS NOTICE TO RECEIVE A TICKET NUMBER.
4. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE ELECTRIC UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE UTILITY CONNECTIONS WITH THE RESPECTIVE COMPANIES PRIOR TO ANY UTILITY CONSTRUCTION.
5. TOWN APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES.
6. PRIOR TO CONSTRUCTING THE SITE ENTRANCE ONTO SILVER STREET, THE CONTRACTOR SHALL OBTAIN A HIGHWAY/DRIVEWAY PERMIT FROM THE APPLICABLE AHJ.
7. SUBCONTRACTOR(S) SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
8. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE CONTRACTOR/CEOR FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
9. AREAS USED AS FOR PARKING DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS INCLUDING, BUT NOT LIMITED TO, REGRADING, LOAMING AND SEEDING. IN NO CASE SHALL PARKING AREAS, LAYDOWN AREAS, CONSTRUCTION TRAILERS, AND PORTABLE TOILETS BE LOCATED WITHIN A WETLAND RESOURCE AREA AND/OR ANY BUFFER ZONES.

SITE PREPARATION NOTES

1. AREAS DESIGNATED FOR TREE CUTTING SHALL BE CUT ONLY. NO GRUBBING OR STRIPPING OF TOPSOIL IS NECESSARY UNLESS SPECIFICALLY SHOWN OTHERWISE AND APPROVAL HAS BEEN GIVEN BY THE CONTRACTOR.
2. TREE CLEARING AND STUMP REMOVAL SHALL BE IN ACCORDANCE WITH APPROVED LOCAL, STATE AND FEDERAL PERMITS. TREES TO BE REMOVED SHALL BE MARKED BY THE CONTRACTOR'S PROJECT MANAGER OR SITE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORK ON-SITE.
3. SEASONAL TREE CLEARING RESTRICTIONS MAY BE REQUIRED FOR ENDANGERED SPECIES PROTECTION. THE CONTRACTOR SHALL REFER TO THE TREE CLEARING PLAN FOR ANY RESTRICTIONS.
4. THE SUBCONTRACTOR(S) IS/ARE RESPONSIBLE FOR ANY DAMAGE TO EXISTING SITE CONDITIONS TO REMAIN THAT ARE DUE TO SUBCONTRACTOR(S) OPERATIONS.
5. ITEMS TO BE REMOVED THAT ARE NOT STOCKPILED FOR LATER REUSE ON THE PROJECT OR DELIVERED TO THE OWNER SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE SUBCONTRACTOR(S).
6. THE SUBCONTRACTOR(S) SHALL BE RESPONSIBLE FOR COORDINATING THEIR EFFORTS WITH ALL TRADES.
7. THE SUBCONTRACTOR(S) SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
8. TEMPORARY CONSTRUCTION HAUL ROADS SHALL BE USED DURING CONSTRUCTION IF DEEMED NECESSARY BY THE CONTRACTOR. THE USE OF SEPARATION FABRICS SHALL BE USED TO FACILITATE FUTURE REMOVAL AND RECOVERY OF GRANULAR MATERIALS. HAUL ROADS SHALL BE MAINTAINED DURING CONSTRUCTION WITH APPROPRIATE EROSION CONTROL AND STORMWATER REDUCTION MEASURES. ONCE REMOVED, THE SUB-BASE AREA SHOULD BE DECOMPACTED, LOAM REPLACED, AND RESEDED.
9. THE SITE ACCESS ROADS ARE DESIGNED TO MEET STATE FIRE CODE FOR FIRE TRUCK ACCESS. MEANS AND METHODS FOR ACCOMMODATING LARGER CONSTRUCTION DELIVERY VEHICLES MUST BE DETERMINED BY THE CONTRACTOR.
10. THE PROPOSED ROAD DESIGN SHOWN IN THESE PLANS SHALL BE CONSIDERED THE FINAL DESIGN CONDITION. ADDITIONAL MEANS AND METHODS OF CONSTRUCTION DEEMED NECESSARY BY THE OWNER OR CONTRACTOR SHALL BE DESIGNED BY OTHERS AND INCLUDED IN THE INITIAL EPC BID PRICE (INCLUDING, BUT NOT LIMITED TO: TEMPORARY HAUL ROADS, WIDENED OR LENGTHENED ROADS AND TURN OUT AREAS FOR LARGER CONSTRUCTION AND DELIVERY VEHICLES, TEMPORARY PARKING AND LAYDOWN AREAS, MODIFIED GRADING TO SUPPORT CONSTRUCTION AND DELIVERY VEHICLES, ETC.).

EROSION AND SEDIMENT CONTROL MEASURES

1. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
2. SEDIMENT BARRIERS SHALL BE INSPECTED AND APPROVED BY THE TOWN OF AGAWAM OR THEIR REPRESENTATIVE AND THE CONTRACTOR/CEOR BEFORE CONSTRUCTION BEGINS.
3. STRAW BALES AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE OF NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY WHEN INSTALLED.
4. DISTURBED AREAS SHALL BE BLANKETED OR SEEDED AND MULCHED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ALL ERODABLE/BARE AREAS SHALL BE BLANKETED OR SEEDED AND MULCHED WITHIN 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING.
5. PRIOR TO SEEDING, ACCESS AISLES, TEMPORARY STAGING, STORAGE, AND PARKING AREAS ARE TO BE DE-COMPACTED AND RESTORED PER THE SWPPP.
6. STABILIZE SLOPES GREATER THAN 3:1 (HORIZONTAL: VERTICAL) WITH SEED, SECURED GEOTEXTILE FABRIC, SPRAYED COMPOST BLANKET, OR RIP-RAP AS REQUIRED TO PREVENT EROSION DURING CONSTRUCTION.
7. SEDIMENT BARRIERS SHALL BE CONSTRUCTED AROUND ALL SOIL STOCKPILE AREAS.

1. CLEAN OUT PROJECT DRAINAGE FEATURES AND STRUCTURES (I.E. CULVERTS, BASINS, SWALES, ETC.) AFTER COMPLETION OF CONSTRUCTION.
9. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE SEDIMENT CONTROL MEASURE.
10. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE SUBCONTRACTOR(S) SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AT THE CONTRACTOR/CEOR DIRECTION.
11. AFTER THE REMOVAL OF TEMPORARY EROSION CONTROL MEASURES, THE SUBCONTRACTOR(S) SHALL GRADE AND SEED AREA OF TEMPORARY EROSION CONTROL MEASURE.
12. DAMAGED OR DETERIORATED EROSION AND SEDIMENT CONTROL ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION OR AS DIRECTED BY THE CONTRACTOR/CEOR.
13. THE CONTRACTOR'S SITE SUPERINTENDENT IS RESPONSIBLE FOR DAILY INSPECTIONS, MAINTENANCE, AND DIRECTING REPAIR ACTIVITIES. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES ONCE EVERY SEVEN (7) CALENDAR DAYS OR ONCE EVERY FOURTEEN (14) DAYS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2 INCH PRECIPITATION, IN ACCORDANCE WITH THE NPDES REQUIREMENTS. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS.
14. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING, IF REQUIRED, SHALL BE FILTERED.
15. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION/SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY CONTRACTOR/CEOR.
16. GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY.
17. NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. NO RE-FUELING SHALL OCCUR WITHIN 100 FEET OF ANY WETLAND RESOURCE AREA AND 200 FEET FROM RIVERFRONT. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
18. THE COST OF REPAIRING EROSION CONTROL MEASURES OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
19. EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
20. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT DUST FROM FORMING.
21. EROSION CONTROL MEASURES AS SHOWN ON THESE DRAWINGS IS INTENDED TO CONVEY MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES AS NECESSARY TO PREVENT SOIL EROSION AND TO COMPLY WITH THE PROJECT'S NPDES PERMIT STORMWATER POLLUTION PREVENTION PLAN.

LAYOUT AND MATERIAL NOTES

1. THE CONTRACTOR SHALL HAVE PERIMETER FENCE, ELECTRICAL TRENCHES, AND PAD LIMITS STAKED OUT BY A LICENSED LAND SURVEYOR PRIOR TO ANY INSTALLATION OF EQUIPMENT PADS OR TRENCHES.
2. EXCESS TRENCH MATERIAL SHALL BE PLACED ON THE SIDES OF THE TRENCH AND PLACED AT OR NEAR THE SAME LOCATION AS WHERE EXCAVATED. TOPSOIL REMOVED SHALL BE PLACED ON TOP AND LIGHTLY COMPACTED.
3. SUBCONTRACTOR SHALL INSTALL CONDUITS FOR ALL ELECTRIC CONDUIT CROSSINGS PRIOR TO INSTALLATION OF THE GEOGRID MATERIAL. THE GEOGRID SHALL NOT BE HORIZONTALLY CUT ONCE INSTALLED.

GRADING NOTES

1. WHERE PROPOSED GRADES MEET EXISTING GRADES, SUBCONTRACTOR(S) SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES, PUBLIC ROADWAYS, AND ELECTRICAL EQUIPMENT AREAS.

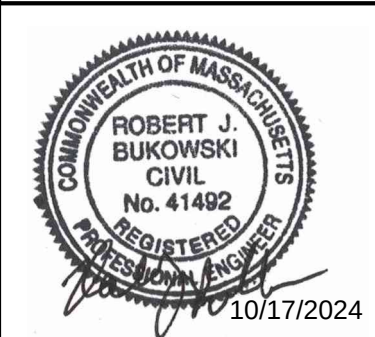


EXISTING CONDITIONS PLAN

SCALE: 1" = 40'



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NOT FOR CONSTRUCTION



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SITE USE PERMIT SET
404 SILVER ST
AGAWAM, MA 01001

PROJECT NUMBER:
120-0339

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
0	10/01/24	RWG	MRC	SITE USE PERMIT SET
1	10/17/24	RWG	MRC	SPR FIRE DEPARTMENT COMMENTS

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-1.0
EXISTING CONDITIONS PLAN

NOTE:
1. EXISTING CONDITIONS TOPOGRAPHY AND APPROXIMATE BOUNDARY LINES FROM "LIMITED ALTA/NSPS LAND TITLE SURVEY OF LAND IN AGAWAM, MA", DATED 2/1/2022, AND PREPARED BY NORTHEAST SURVEY CONSULTANTS. THIS EXISTING CONDITIONS PLAN IS NOT A BOUNDARY SURVEY.



10/17/2012

Weston & Sampson

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AGAWAM, MA 01001

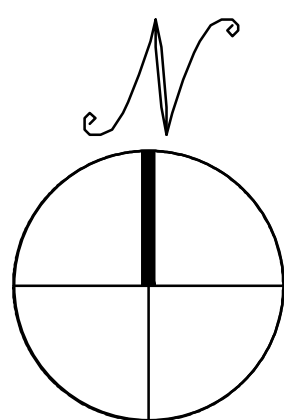
PROJECT NUMBER
120-0339

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ARCH D 24" X 36"

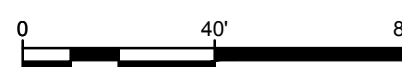
C-2.0

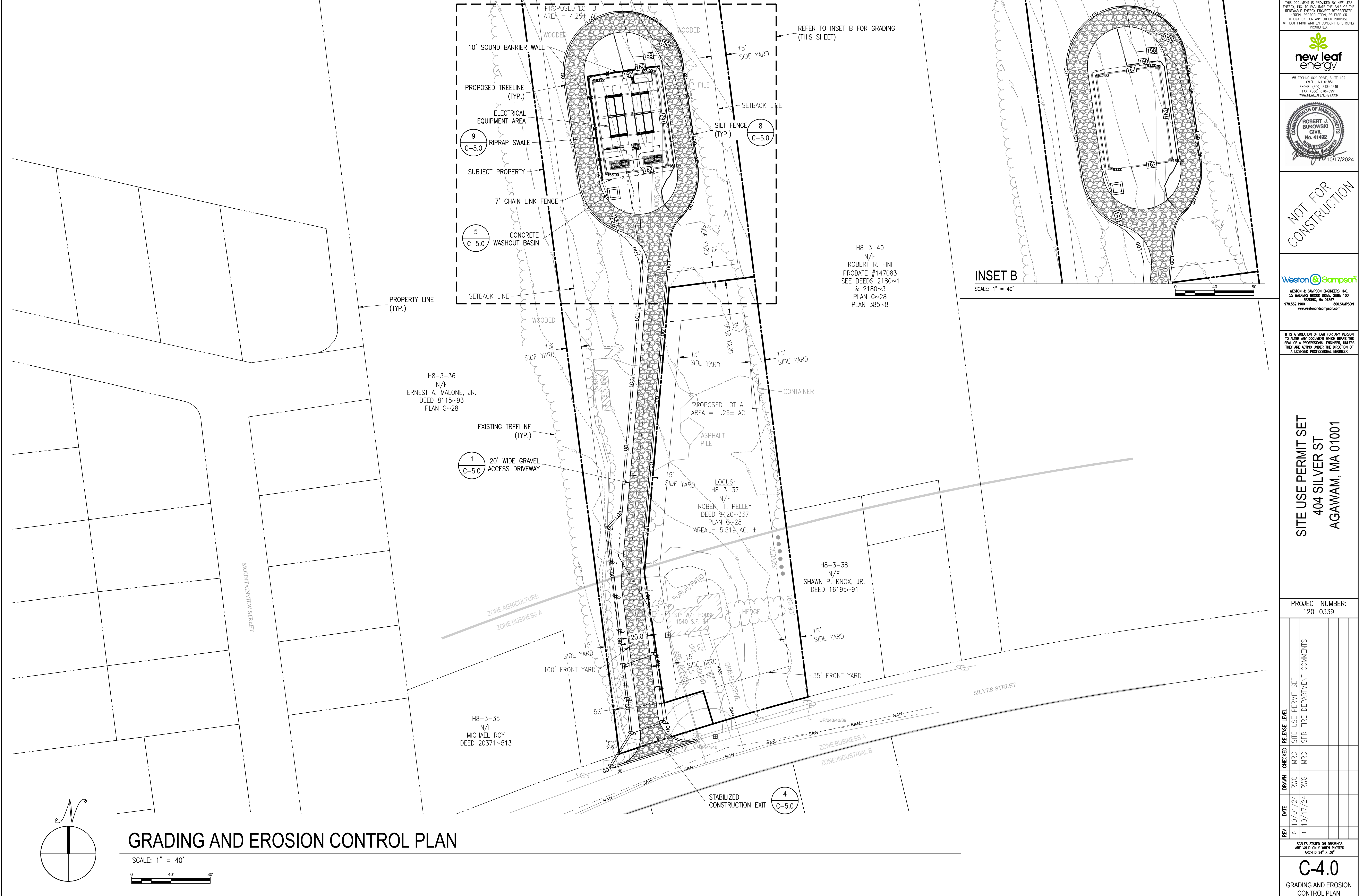
TREE CLEARING PLAN



TREE CLEARING PLAN

SCALE: 1" = 40'





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new leaf energy

55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851
PHONE: (978) 678-5249
FAX: (978) 678-8991
WWW.NEWLEAFENERGY.COM

COMMONWEALTH OF MASSACHUSETTS
ROBERT J. BUKOWSKI
CIVIL
No. 41492
REGISTERED PROFESSIONAL ENGINEER
10/17/2024

NOT FOR CONSTRUCTION

Weston & Sampson

WESTON & SAMPSON ENGINEERS, INC.
55 WALKERS BROOK DRIVE, SUITE 100
ROCKINGHAM, MA 01867
978.532.1900 800.SAMPSON
www.westonandsampson.com

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SITE USE PERMIT SET
404 SILVER ST
AGAWAM, MA 01001

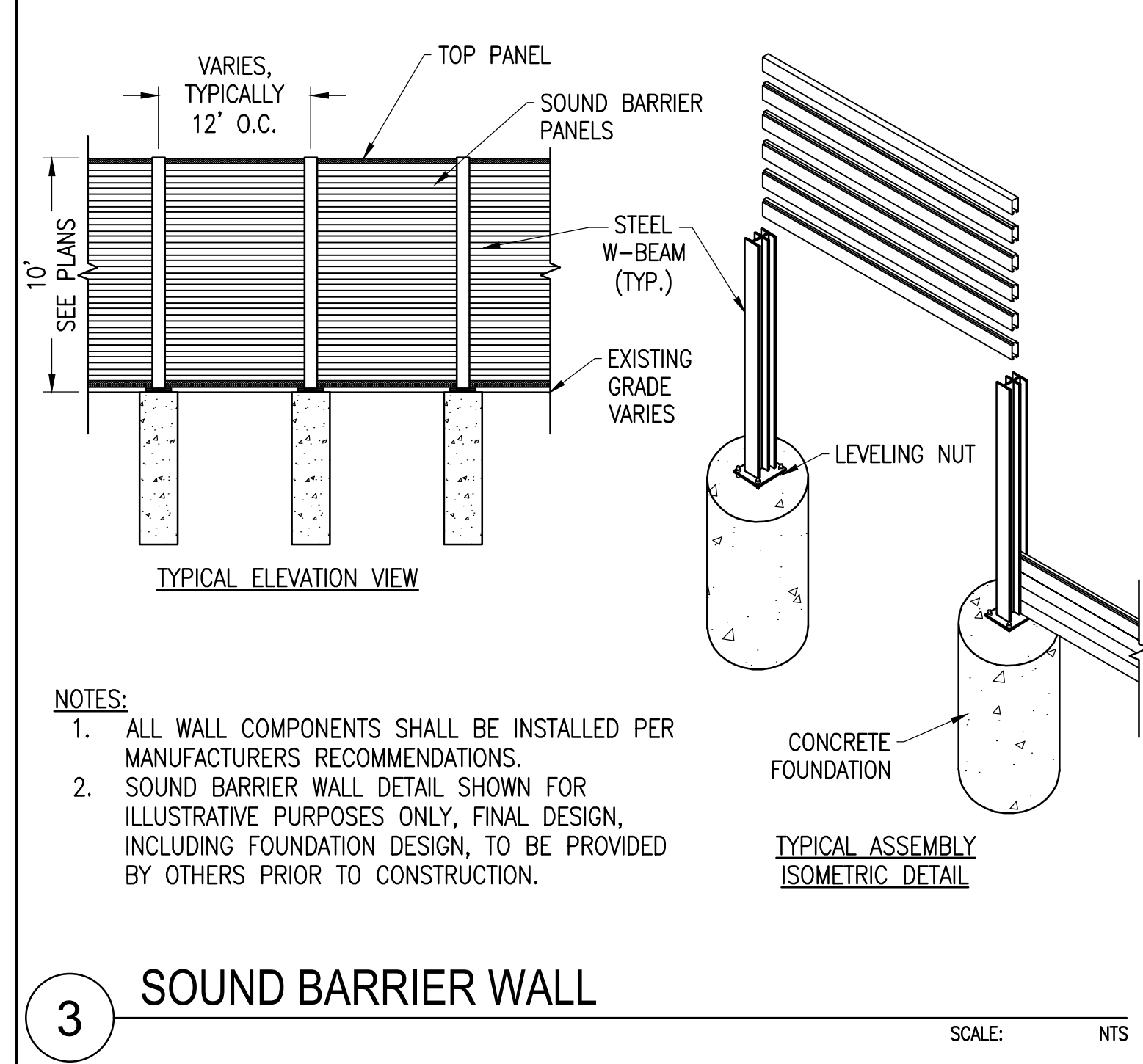
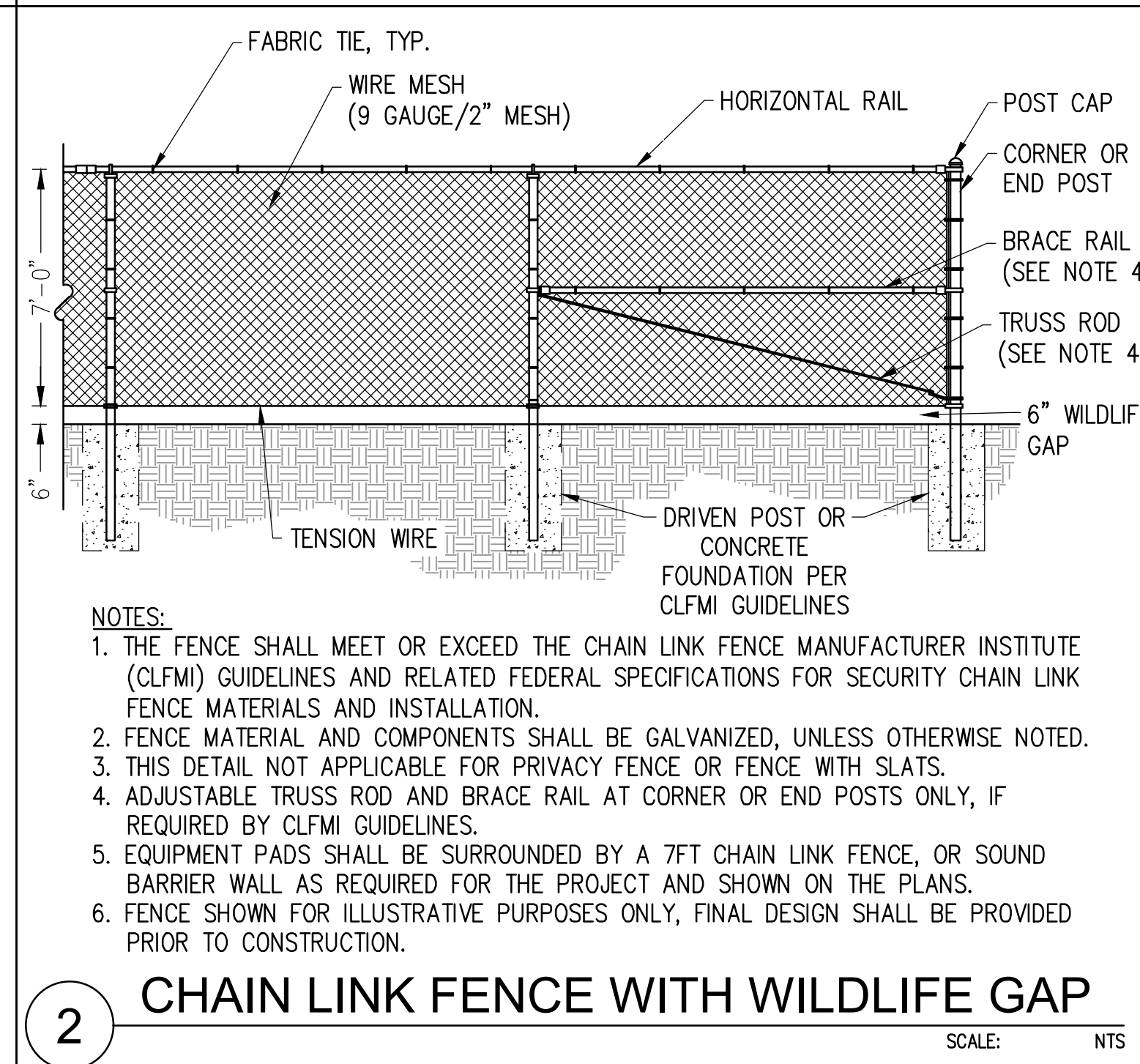
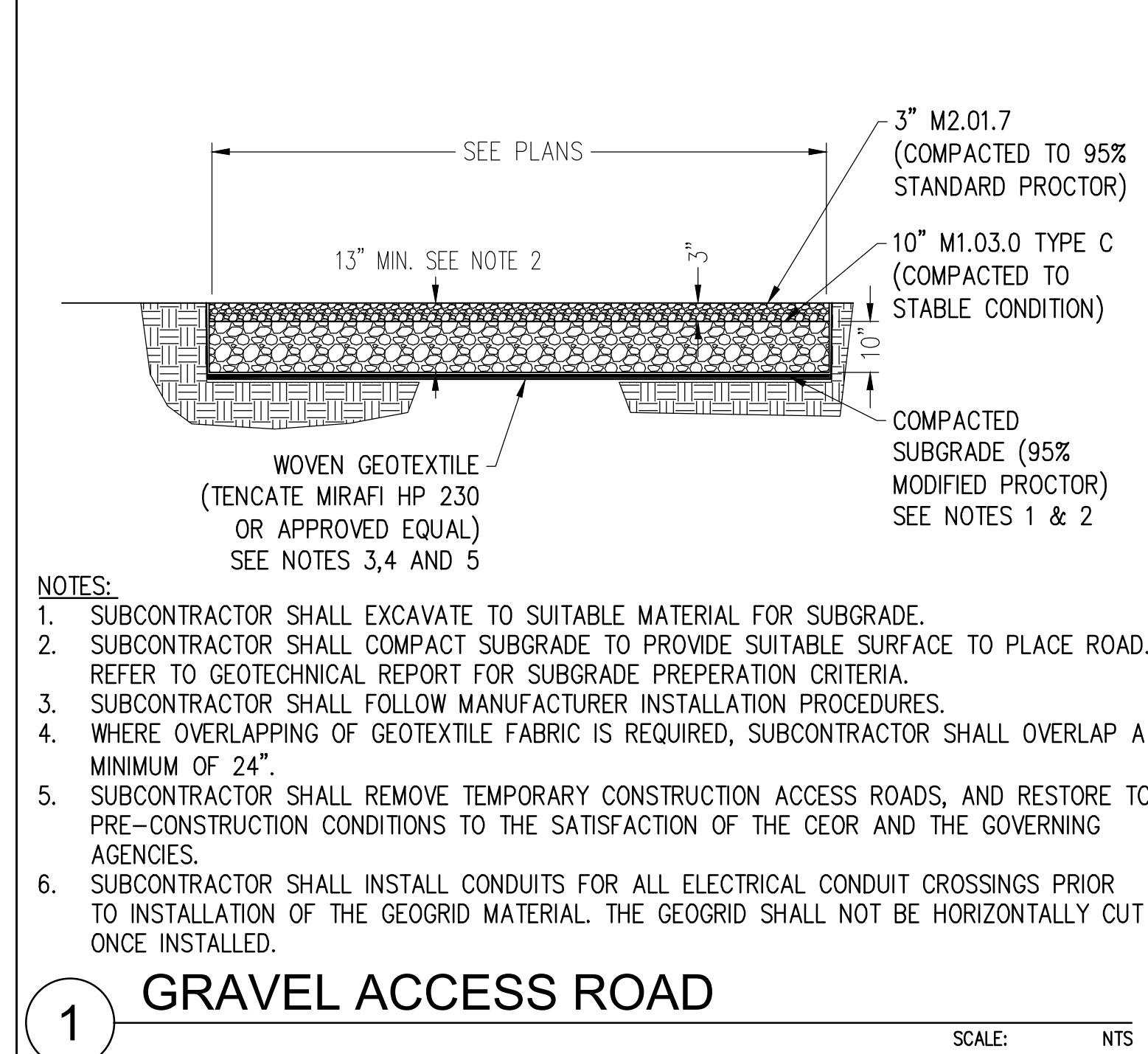
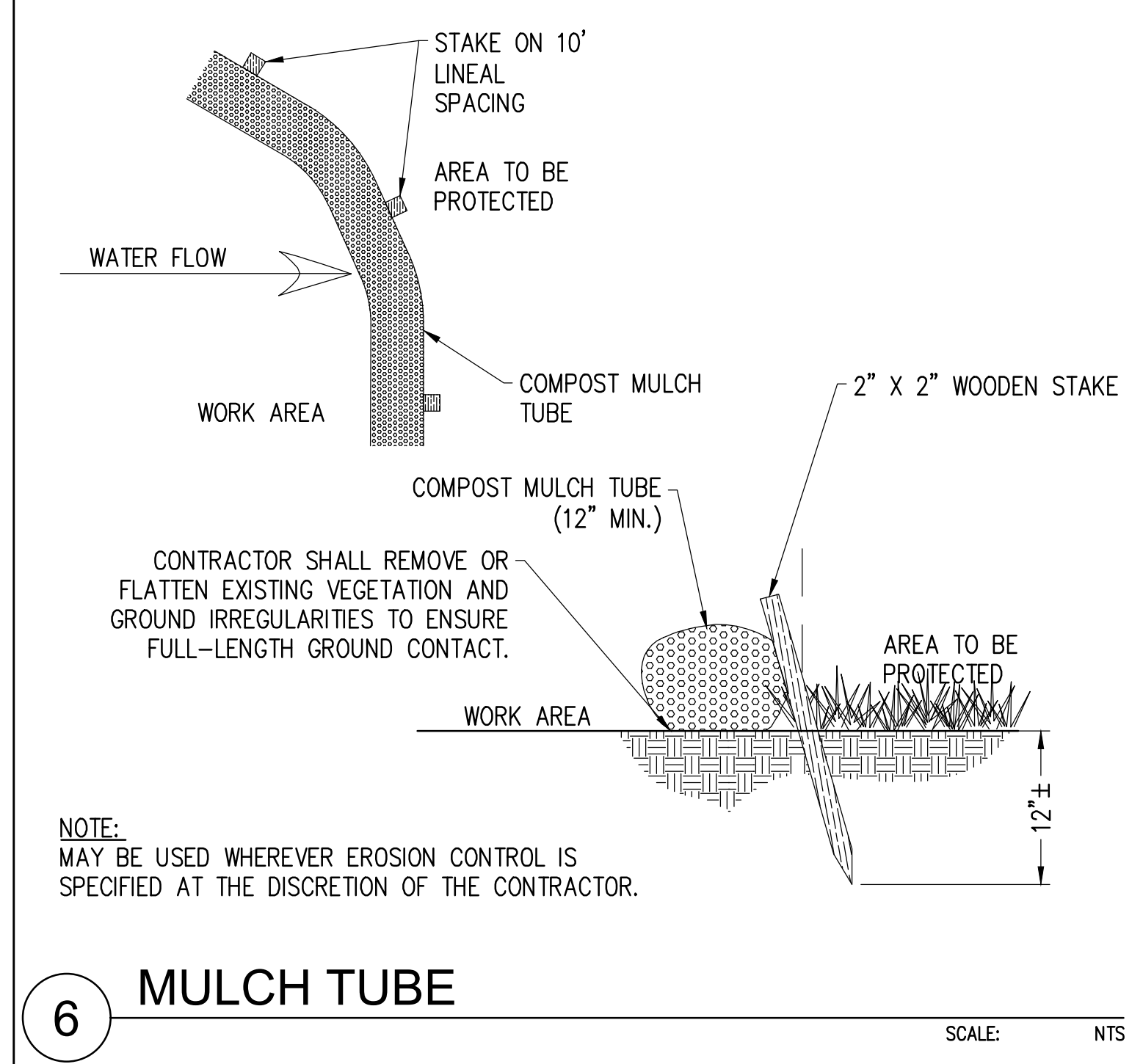
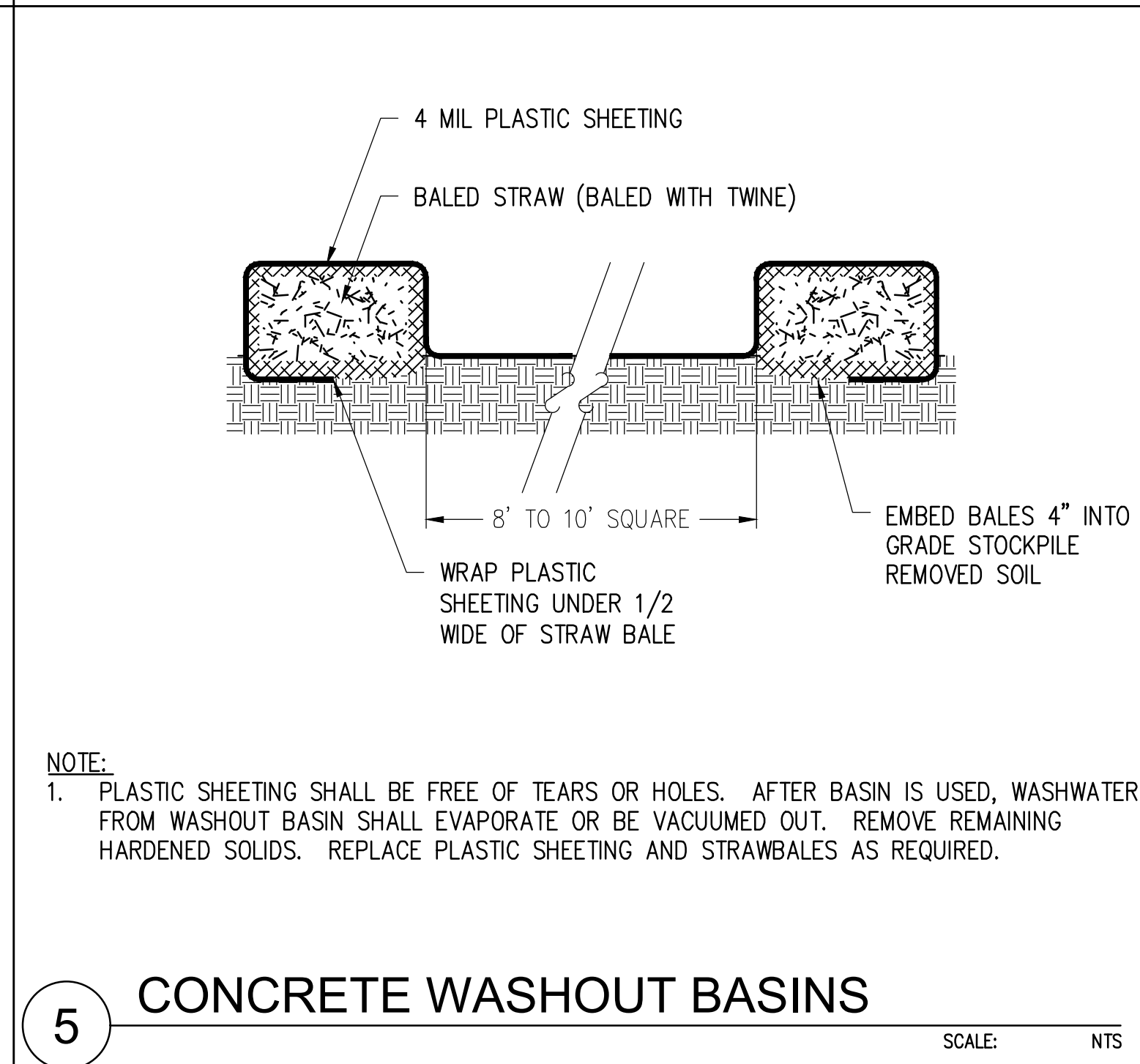
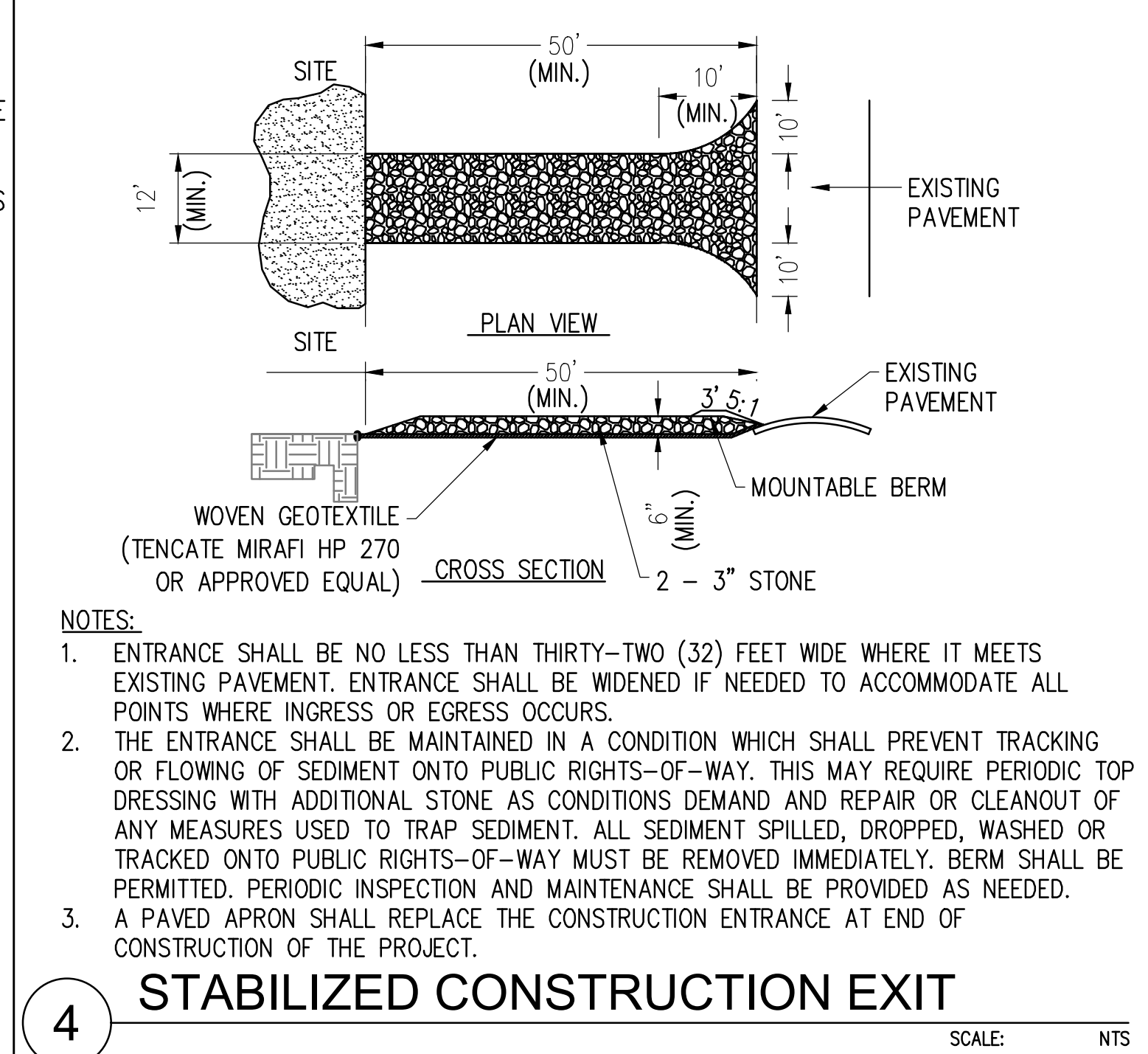
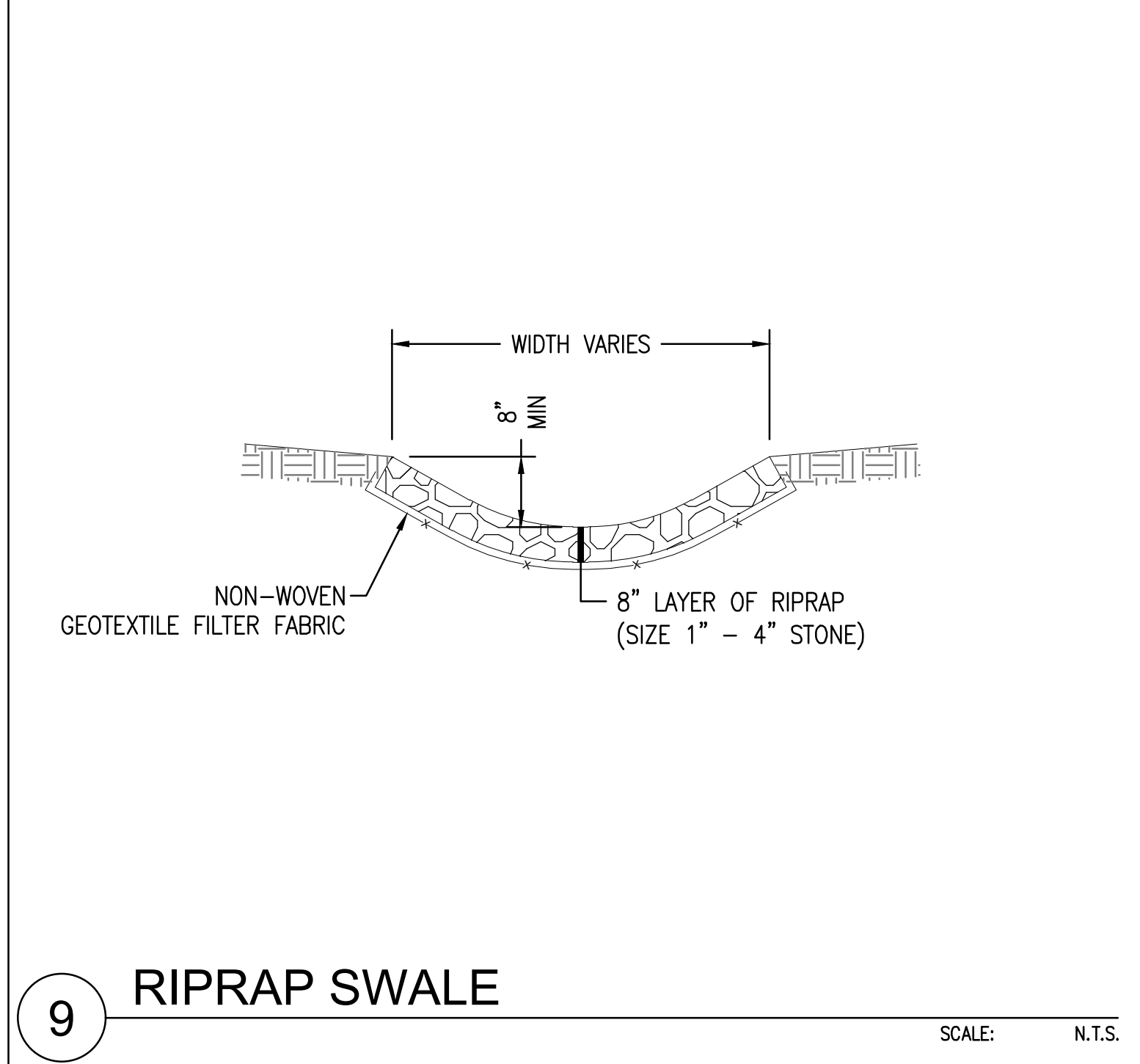
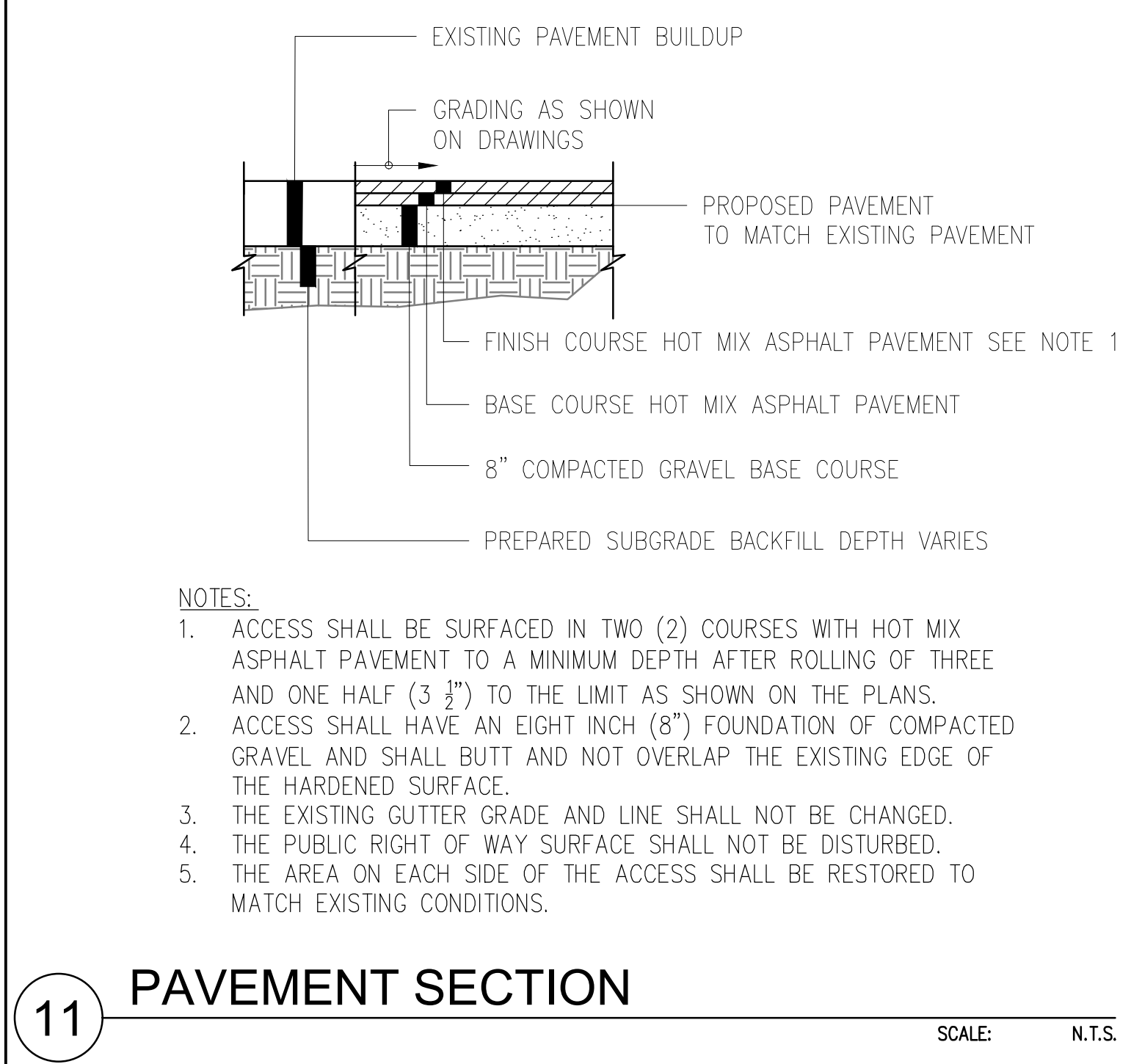
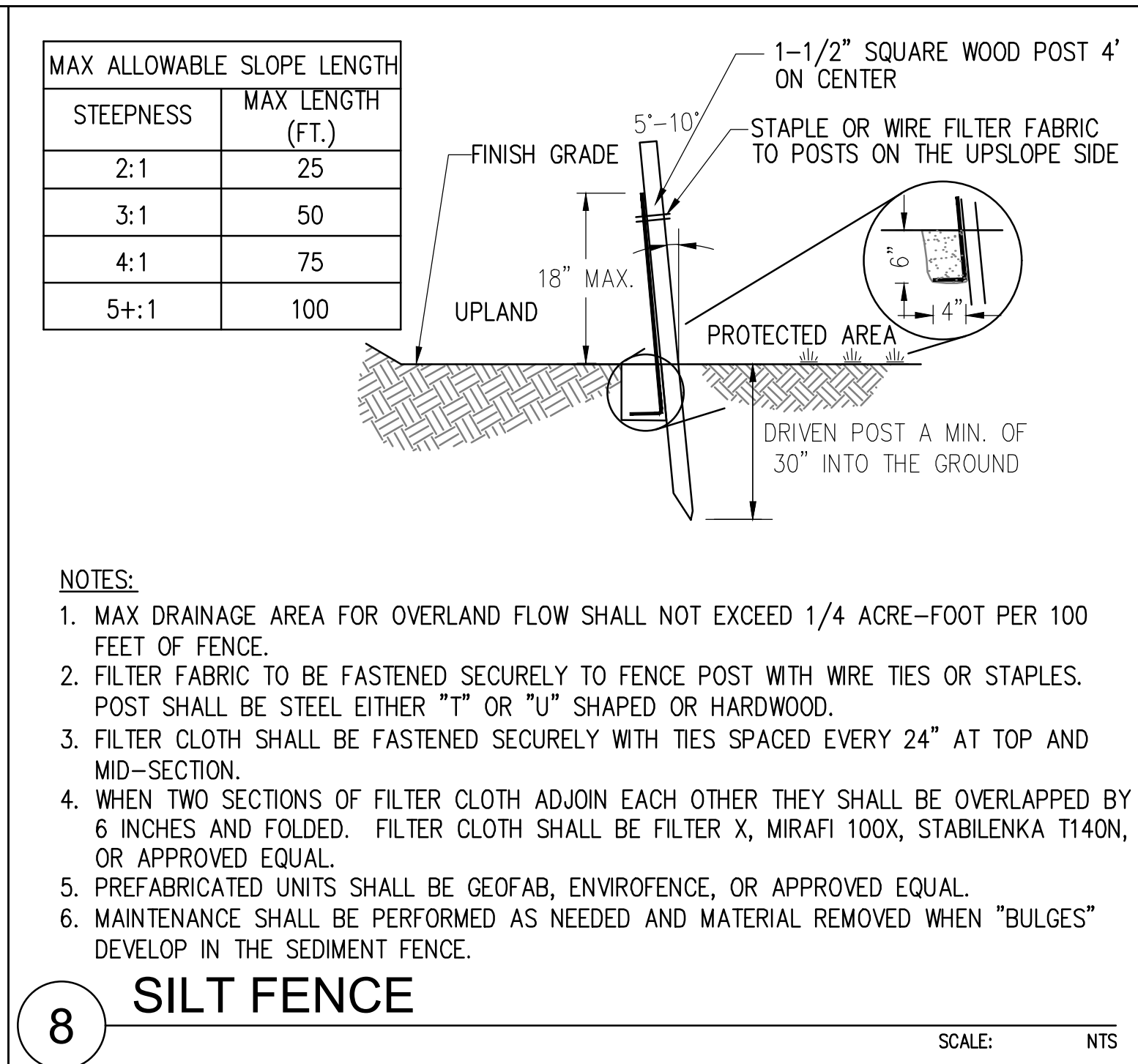
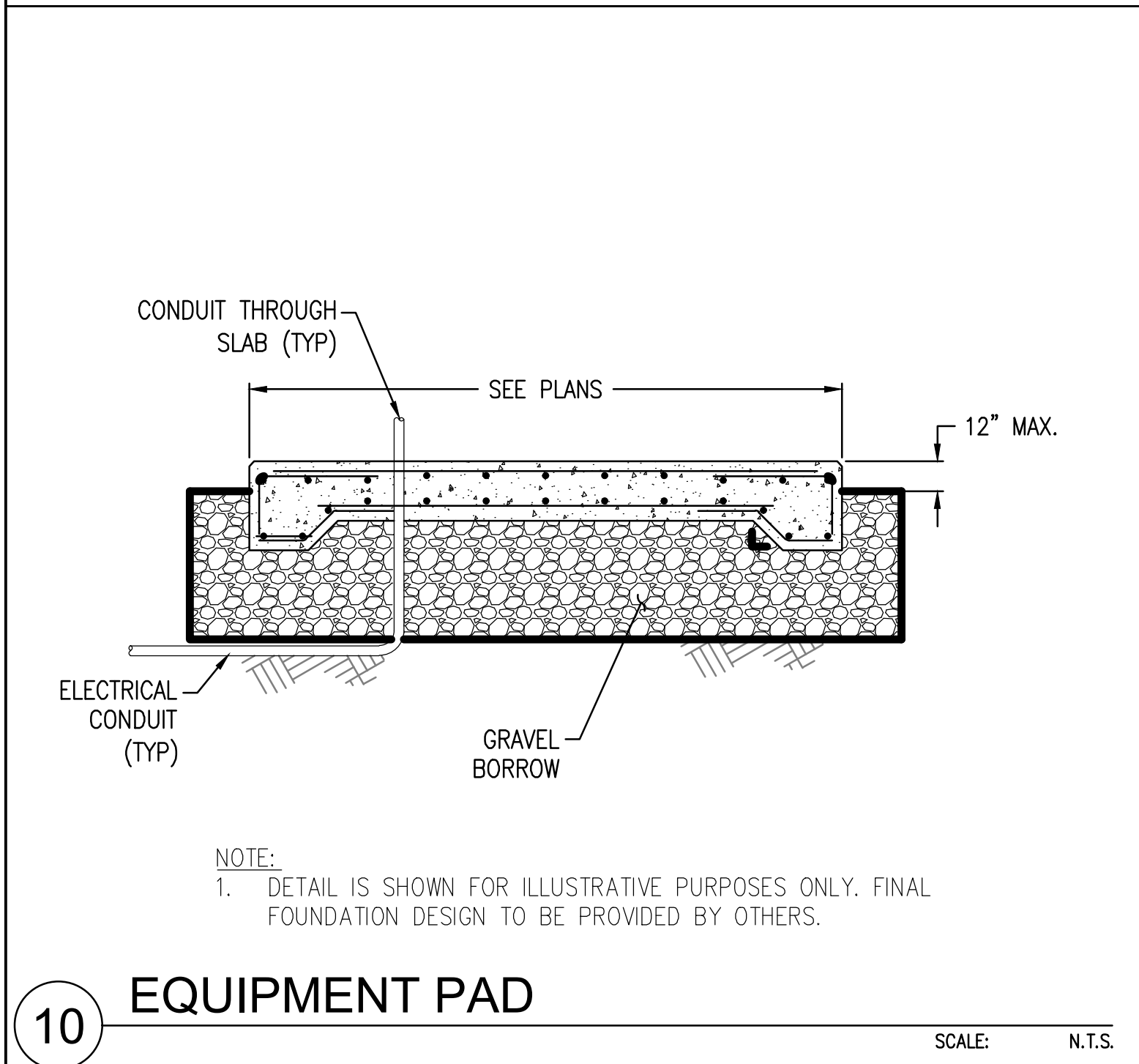
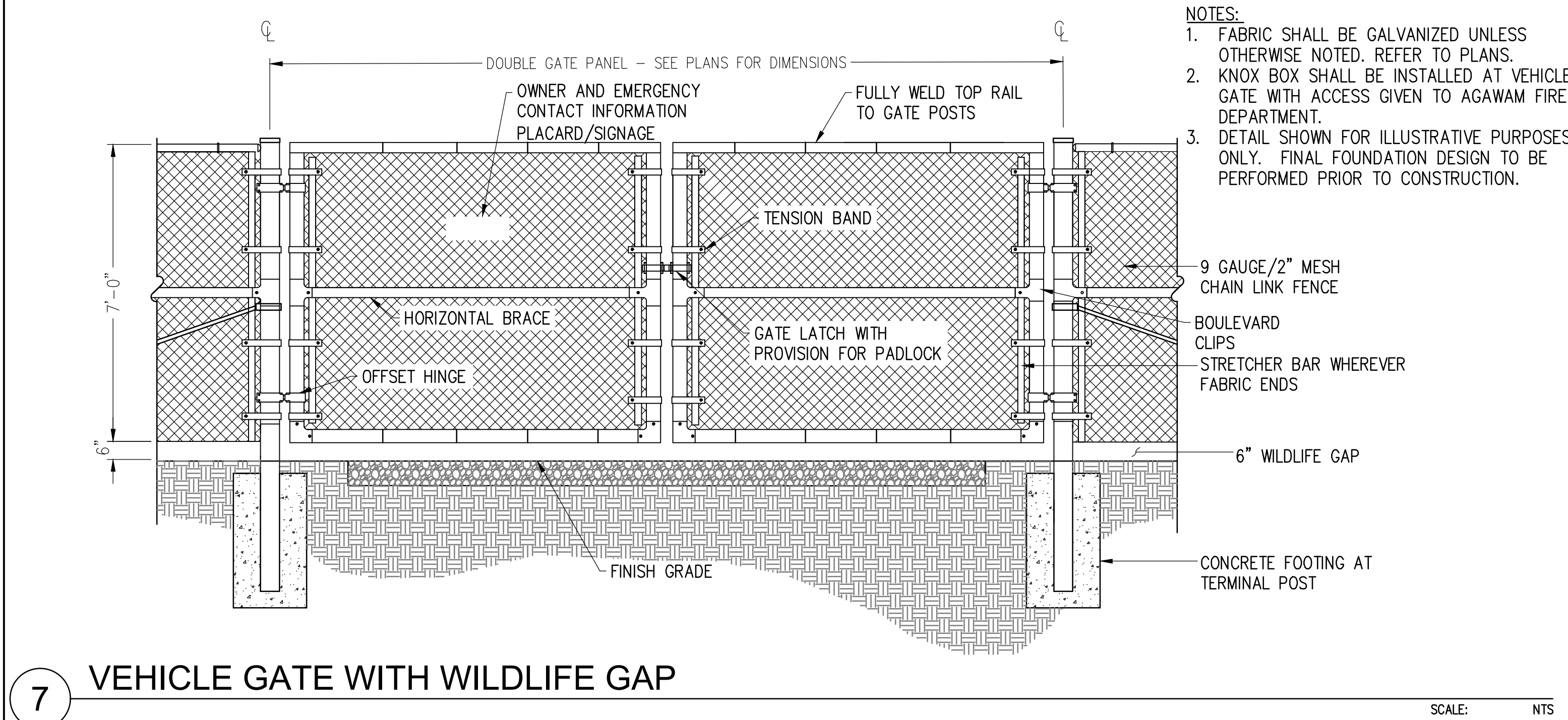
PROJECT NUMBER:
120-0339

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
0	10/01/24	RWG	MRC	SITE USE PERMIT SET
1	10/17/24	RWG	MRC	SPR FIRE DEPARTMENT COMMENTS

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-4.0

GRADING AND EROSION CONTROL PLAN



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COMMONWEALTH OF MASSACHUSETTS

ROBERT J. BUKOWSKI
CIVIL
No. 41492
REGISTERED PROFESSIONAL ENGINEER

10/17/2024

NOT FOR CONSTRUCTION

Weston & Sampson

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AGAWAM, MA 01001

PROJECT NUMBER:
120-0339

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1	10/17/24	RWG	MRC	SPR FIRE DEPARTMENT COMMENTS

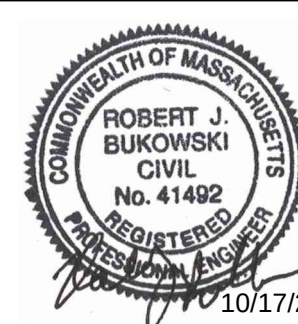
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ASH 12" X 36"

C-5.0

CIVIL DETAILS



55 TECHNOLOGY DRIVE, SUITE 1
LOWELL, MA 01851
PHONE: (800) 818-5249
FAX: (888) 678-8991
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AGAWAM, MA 01001

PROJECT NUMBER
120-0339

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0	10/01/24	RWG	MRC			
1	10/11/24	RWG	MRC		SPR FIRE DEPARTMENT	COMMENTS

SCALES STATED ON DRAWINGS
ARE VALID ONLY WHEN PLOTTE
ARCH D 24" X 36"

C-5.1

CIVIL DETAILS



SCALE: N.T.S.



SECTION VIEW

2 ENERGY STORAGE CROSS SECTION

SCALE: NTS
2023-12-07

October 25, 2024

55 Walkers Brook Drive, Suite 100, Reading, MA 01867
Tel: 978.532.1900

Taryn Egerton
Assistant Planner and Conservation Officer
Office of Planning and Community Development
Town of Agawam, Massachusetts
36 Main Street
Agawam, MA 01001

**Re: Battery Energy Storage System (BESS), 404 Silver Street, Agawam MA
Response to Comments – Site Plan Review Application**

Dear Ms. Egerton:

Weston & Sampson Engineers, Inc. (Weston & Sampson), on behalf of Silver Street Energy Storage, LLC c/o New Leaf Energy, Inc., has prepared this letter in response to the comments received by the Agawam Fire Department on October 2, 2024, the Agawam Department of Public Works (DPW) on October 17, 2024, and the Agawam Inspection Services Department on October 21, 2024 related to the Site Plan Review Application for the proposed BESS project at 404 Silver Street. Please find our responses to your comments below. Fire Department, DPW, and Inspection Services Department comments have been listed in bold, followed by our response in italics.

Fire Department

The swept path analysis submitted for this project does not get the fire department access around the entire ESS area. It shows the fire truck making a 3 point turn which is not compliant for a successful swept path. That also being said, we are also getting a new fire truck that has different specifications to this swept path. I will submit them to you as soon as I hear back from the vendor.

The updated swept path is shown on all proposed sheets in the Revised Site Plans, included in Attachment A, and provides an adequate path for the new fire truck (Model: 100' Rear Mount Platform (S53RP-100)).

DPW

- 1. The existing parcel has been divided into 2 parcels, Proposed Lot A and Proposed Lot B. Proposed Lot A will continue to have an address of 404 Silver Street and Proposed Lot B will be assigned a new address of 408 Silver Street.**

Acknowledged, this is noted in the General Notes on the Civil Notes sheet (Sheet C-0.0) and the notes on the Layout and Materials Plan (C-3.0), included in Attachment A.

- 2. The plan calls for a silt fence to be installed on the east side of the driveway only at the very end of said driveway. Please extend the silt fence along the limit of work for the entire east side of the driveway.**

The Grading and Erosion Control Plan (Sheet C-4.0), included in Attachment A, illustrates the revised silt fence location, extending along the limit of work for the entire east side of the driveway.

- 3. The catch basin on Silver Street needs inlet protection from any excess sediment as a result of this project. The Grading and Erosion Control Plan (Sheet C-4.0) and the Civil Details (Sheet C-5.1), included in Attachment A, include silt sack protection for the catch basin on Silver Street.**

- 4. Sheet C-4.0 of the plans has a leader pointing to a riprap swale but it is unclear how that swale is graded and the extents of its location.**

The riprap swale has been removed from the project plans and replaced with a stone infiltration trench as shown on the Grading and Erosion Control Plan (Sheet C-4.0) included in Attachment A.

5. Project must be in accordance with the new Agawam Chapter 176 Stormwater Management Ordinance and Regulations for Stormwater Management Permit.

The Stormwater Report, included in Attachment B, details compliance with relevant sections of the Agawam Chapter 176 Stormwater Management Ordinance. The Regulations for Stormwater Permit have been acknowledged.

Inspection services Department

A Form-A (ANR) would be required to split the parcels for the proposed project.

Acknowledged. An ANR will be submitted prior to construction of the proposed project.

Should you have any questions, please contact me at (978) 532-1900 or costello.melinda@wseinc.com.

Sincerely,

WESTON & SAMPSON ENGINEERS, INC.



Melinda Costello, P.E.
Project Manager



Robert J. Bukowski, P.E.
Principal Engineer/Project Manager

cc: William Peregoy, Silver Street Energy Storage, LLC

Attachments:

Attachment A – Revised Site Plans

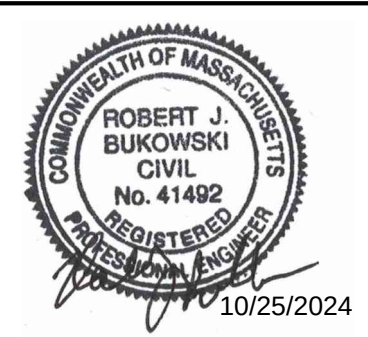
Attachment B – Revised Stormwater Report

Attachment A - Revised Site Plans

SITE USE PERMIT SET

404 SILVER ST - AGAWAM
404 SILVER ST, AGAWAM, MA 01001
BATTERY STORAGE SYSTEM

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PROJECT NUMBER:
120-0339

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1	10/17/24	RWG	MRC	SPR FIRE DEPARTMENT COMMENTS	
2	10/25/24	DED	MRC	SPR ENGINEERING COMMENTS	

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ASCH @ 24" X 36"

T-1.0
TITLE PAGE

GENERAL NOTES

- AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE THE EPC PROVIDER HIRED BY THE SYSTEM/PROJECT OWNER.
- WHEN THERE IS A CONFLICT BETWEEN THESE GENERAL NOTES AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS.
- THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A CONSTRUCTION LEVEL DESIGN AND ASSOCIATED DRAWINGS AND DETAILS.
- COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS.
- UNLESS OTHERWISE NOTED, THE DESIGN REPRESENTED ON THESE PLANS IS BASED ON THE INFORMATION AND CRITERIA LISTED IN THE "BASIS OF DESIGN" SECTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH INFORMATION IN PREPARATION OF THE CONSTRUCTION DESIGN.
- THE EXISTING CONDITIONS REPRESENTED ON THESE PLANS ARE BASED ON PUBLICLY AVAILABLE INFORMATION AND THE SITE DISCOVERY SUMMARIZED IN THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF SUCH INFORMATION AND SUPPLEMENT WITH ANY ADDITIONAL REQUIRED INFORMATION.
- UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT SHALL BE CONSIDERED TO BE NEW.
- ALL EQUIPMENT AND COMPONENTS SHALL BE MOUNTED IN COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS, CONSTRUCTION DETAILS, AND/OR PRUDENT INDUSTRY STANDARDS.
- TO THE EXTENT THAT TREES AND OTHER FEATURES AFFECT THE SYSTEM'S PRODUCTION, SUCH PRODUCTION MODELING IS BASED ON THE EXISTING APPROXIMATE HEIGHTS AND LOCATIONS RELATIVE TO THE SYSTEM AND MAY BE IMPACTED AS TREES GROW AND OTHER FEATURES CHANGE.

PROJECT SCOPE

THIS PROJECT CONSISTS OF THE INSTALLATION OF BATTERY ENERGY STORAGE EQUIPMENT, PER THE SYSTEM DESCRIPTION BELOW. THE ENERGY STORAGE MODULES WILL BE INSTALLED IN PURPOSE BUILT ENCLOSURES WITH INTEGRATED FIRE SUPPRESSION AND COOLING SYSTEMS. THE ENERGY STORAGE MODULES WILL BE WIRED IN SERIES AND PARALLEL TO ACCOMMODATE THE POWER REQUIREMENTS OF THE POWER CONVERSION SYSTEM OR DC-DC CONVERTER (DEPENDENT ON PROJECT REQUIREMENTS). THE COMBINED POWER WILL BE CONNECTED TO CERTIFIED POWER CONVERSION SYSTEMS THAT CONVERT AC/DC AND DC/AC FOR CHARGE/DISCHARGE CAPABILITIES. DC-DC CONVERTERS WILL BE USED IN DC COUPLED PROJECTS WITH ONLY CERTIFIED INVERTERS (DC/AC) DISCHARGING ENERGY TO THE GRID.

ENERGY STORAGE SYSTEM DESCRIPTION

SYSTEM POWER CAPACITY (kWAC)	4990
SYSTEM ENERGY CAPACITY (kWh)	19960
POWER CONVERSION SYSTEM / INVERTER	(2) HITHIUM GEN 2

TOTAL SYSTEM DESCRIPTION

TOTAL STORAGE POWER CAPACITY (kWAC)	4990
MAXIMUM EXPORT TO UTILITY	4 HOURS AT RATED CAPACITY
STORAGE CHARGING MODE	GRID ONLY

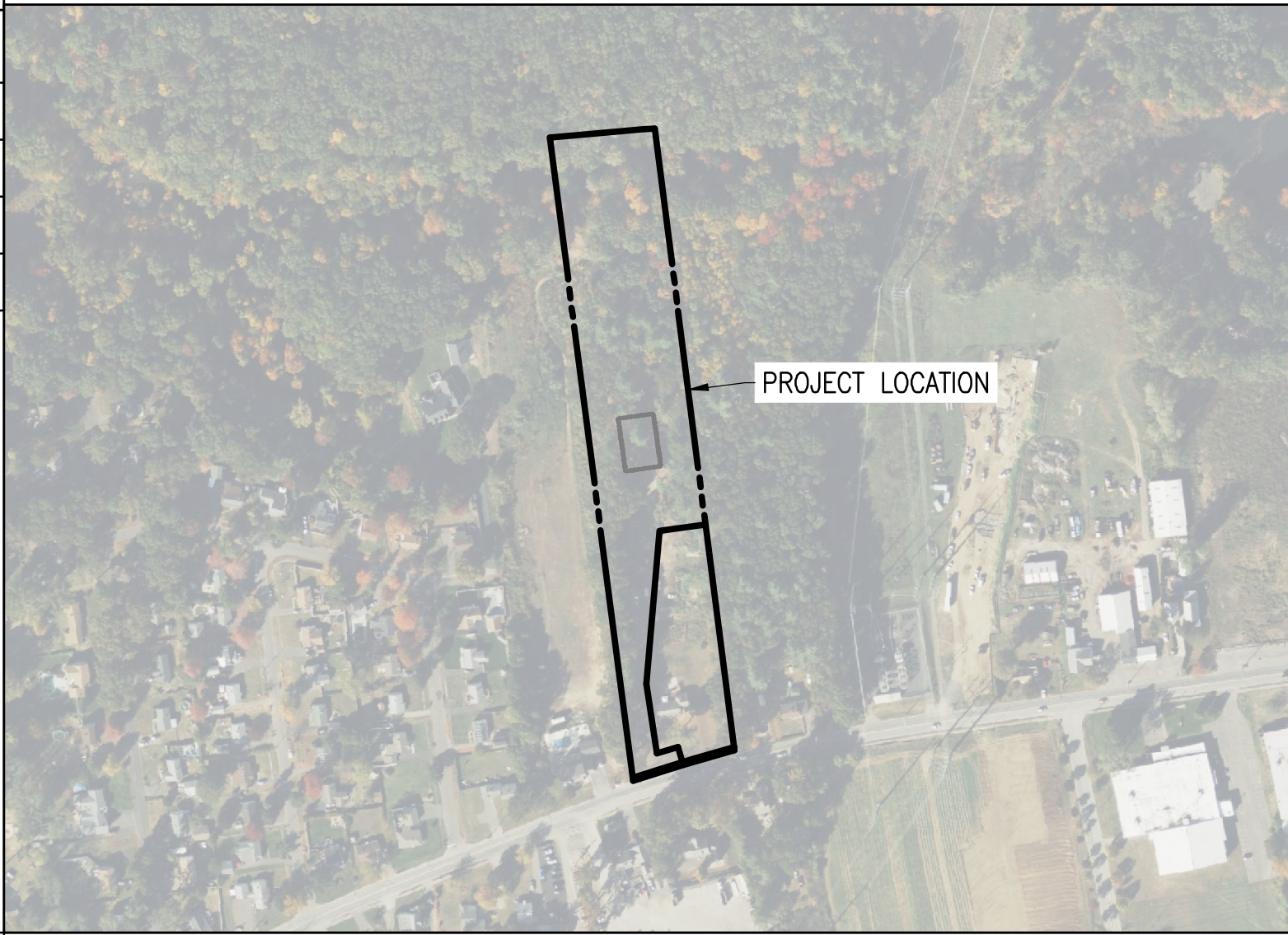
SPECIAL INSPECTIONS

GENERAL CONSTRUCTION SPECIAL INSPECTIONS	CODE/SECTION
1. FIRE RESISTANT PENETRATIONS AND JOINTS	BC 1704.27
2. ENERGY CODE COMPLIANCE INSPECTIONS	BC 110.3.5
FINAL	

LOCATION MAP



AERIAL VIEW



APPLICABLE CODES AND STANDARDS

2020 MASSACHUSETTS ELECTRICAL CODE 527 CMR12.00
MASSACHUSETTS BUILDING CODE 9TH EDITION
UL-1642 - STANDARD FOR LITHIUM BATTERIES
UL-1741 - INVERTERS, COMBINER BOXES
UL-1973 - STANDARD FOR BATTERIES FOR USE IN LIGHT ELECTRIC RAIL (LER) APPLICATIONS AND STATIONARY APPLICATIONS
UL-9540 - STANDARD FOR ENERGY STORAGE SYSTEM AND EQUIPMENT

PROJECT DIRECTORY

PROJECT OWNER (PROJECT LLC NAME) (ADDRESS) LAND OWNER / HOST (HOST NAME) (CONTACT PHONE) (ADDRESS) AUTHORITY HAVING JURISDICTION TOWN OF AGAWAM PLANNING BOARD 36 MAIN STREET AGAWAM, MA 01001 UTILITY EVERSOURCE	CIVIL ENGINEER FIRM: WESTON & SAMPSON ENGINEERS, INC. CONTACT: ROBERT J. BUKOWSKI, PE PHONE: (978) 532-1900 DESIGN ENGINEER FIRM: NEW LEAF ENERGY, INC. CONTACT: BUILD YOUR OWN PHONE: (XXX) XXX-XXXX ELECTRICAL ENGINEER FIRM: NEW LEAF ENERGY, INC. CONTACT: BUILD YOUR OWN PHONE: (XXX) XXX-XXXX
---	---

GENERAL ABBREVIATIONS

(E) EXISTING	MFR MANUFACTURER
AHJ AUTHORITY HAVING JURISDICTION	MOD SOLAR MODULE
AL ALUMINUM	NS NORTH-SOUTH
APPROX APPROXIMATE	NTS NOT TO SCALE
ARY ARRAY	OAE OR APPROVED EQUAL
BLDG BUILDING	OC ON CENTER
NLE NEW LEAF ENERGY	OD OUTSIDE DIAMETER
CL CENTERLINE	OWNER FURNISHED CONTRACTOR
DAS DATA ACQUISITION SYSTEM	INSTALLED
DIA DIAMETER	PCS POWER CONVERSION SYSTEM
DO DITTO	PV PHOTOVOLTAIC
EW EAST-WEST	PVC POLY VINYL CHLORIDE
ESS ENERGY STORAGE SYSTEM	SCH SCHEDULE
ESU ENERGY STORAGE UNIT	SS STAINLESS STEEL
FBO FURNISHED BY OTHERS	SSS SOLAR SUPPORT STRUCTURE
FF FORWARD FACING	STC STANDARD TEST CONDITIONS
GALV GALVANIZED	TBD TO BE DETERMINED
HDG HOT DIP GALVANIZED	TP TAMPER PROOF
HVAC HEATING VENTILATION AND AIR	TYP TYPICAL
CONDITIONING	UON UNLESS OTHERWISE NOTED
ID INSIDE DIAMETER	VIF VERIFY IN FIELD
	WP WEATHER PROOF

REV 1.0

DRAWING LIST

Sheet Number	Sheet Title
T-1.0	TITLE PAGE
CIVIL	
C-0.0	CIVIL NOTES
C-1.0	EXISTING CONDITIONS PLAN
C-2.0	TREE CLEARING PLAN
C-3.0	LAYOUT AND MATERIALS PLAN
C-4.0	GRADING AND EROSION CONTROL PLAN
C-5.0	CIVIL DETAILS
C-5.1	CIVIL DETAILS
C-6.0	FIRE TRUCK TURNING PLAN

GENERAL CIVIL NOTES

ABBREVIATIONS

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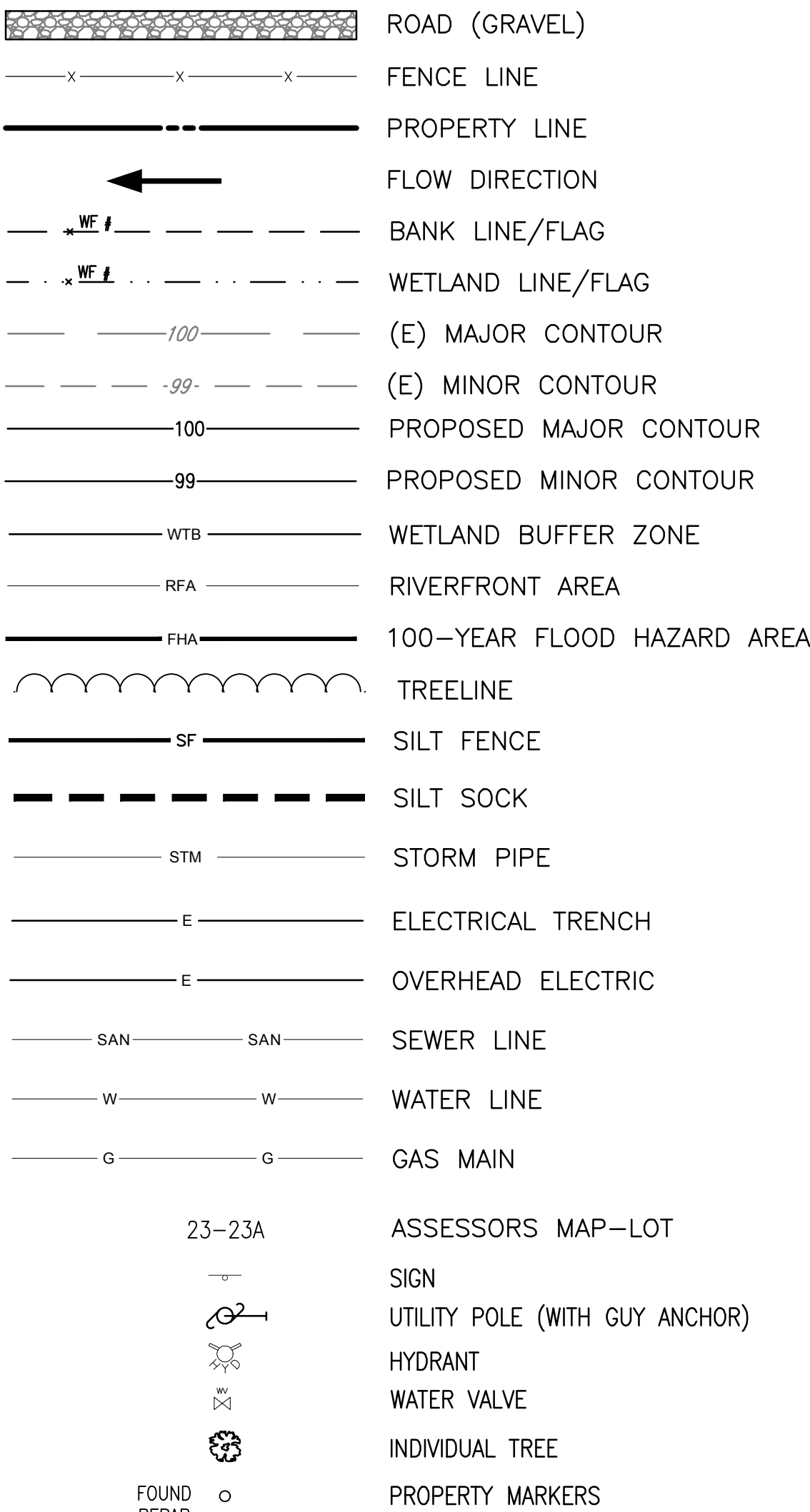
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LEGEND



NOTE: ITALIC FONTS INDICATE EXISTING CONDITIONS.
STANDARD FONTS INDICATE PROPOSED CONDITIONS.

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AGAWAM, MA 01001

PROJECT NUMBER:
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2	10/25/24	DED	MRC	SPR ENGINEERING COMMENTS

SCALES STATED ON DRAWINGS
ARE VALID ONLY WHEN PLOTTED
ARCH. D. 24" X 36"

C-0.0

CIVIL NOTES

GENERAL NOTES

1. AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE THE EPC PROVIDER HIRED BY THE SYSTEM OWNER. "SUBCONTRACTOR" IS THE EPC PROVIDER'S INSTALLATION SUBCONTRACTORS (INCLUDING SITE WORK SUBCONTRACTOR) AND CIVIL ENGINEER OF RECORD (CEOR) IS THE EPC PROVIDER'S DESIGNATED CIVIL ENGINEER.
2. EXISTING CONDITIONS SURVEY INFORMATION WAS PREPARED BY NORTHEAST SURVEY CONSULTANTS PERFORMED ON 2/1/2022. HORIZONTAL DATUM IS REFERENCED TO THE MASSACHUSETTS COORDINATE SYSTEM NORTH AMERICAN DATUM 1983. VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988.
3. THERE IS NO GUARANTEE THAT ALL THE EXISTING UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT LIMITS ARE ON THIS DRAWING. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK. A DIG SAFE TICKET NUMBER INDICATING ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED SHALL BE OBTAINED PRIOR TO COMMENCING WORK. CONTACT "DIG SAFE SYSTEM, INC." AT 1-888-344-7233 AND PROVIDE 72 HOURS NOTICE TO RECEIVE A TICKET NUMBER.
4. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE ELECTRIC UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE UTILITY CONNECTIONS WITH THE RESPECTIVE COMPANIES PRIOR TO ANY UTILITY CONSTRUCTION.
5. TOWN APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES.
6. PRIOR TO CONSTRUCTING THE SITE ENTRANCE ONTO SILVER STREET, THE CONTRACTOR SHALL OBTAIN A HIGHWAY/DRIVEWAY PERMIT FROM THE APPLICABLE AHA.
7. SUBCONTRACTOR(S) SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
8. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE CONTRACTOR/CEOR FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
9. AREAS USED AS FOR PARKING DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS INCLUDING, BUT NOT LIMITED TO, REGRADING, LOAMING AND SEEDING. IN NO CASE SHALL PARKING AREAS, LAYDOWN AREAS, CONSTRUCTION TRAILERS, AND PORTABLE TOILETS BE LOCATED WITHIN A WETLAND RESOURCE AREA AND/OR ANY BUFFER ZONES.
10. PER THE TOWN OF AGAWAM ENGINEERING DEPARTMENT THE PROJECT SHALL HAVE AN E911 ADDRESS OF 408 SILVER STREET.

SITE PREPARATION NOTES

1. AREAS DESIGNATED FOR TREE CUTTING SHALL BE CUT ONLY. NO GRUBBING OR STRIPPING OF TOPSOIL IS NECESSARY UNLESS SPECIFICALLY SHOWN OTHERWISE AND APPROVAL HAS BEEN GIVEN BY THE CONTRACTOR.
2. TREE CLEARING AND STUMP REMOVAL SHALL BE IN ACCORDANCE WITH APPROVED LOCAL, STATE, AND FEDERAL PERMITS. TREES TO BE REMOVED SHALL BE MARKED BY THE CONTRACTOR'S PROJECT MANAGER OR SITE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORK ON-SITE.
3. SEASONAL TREE CLEARING RESTRICTIONS MAY BE REQUIRED FOR ENDANGERED SPECIES PROTECTION. THE CONTRACTOR SHALL REFER TO THE TREE CLEARING PLAN FOR ANY RESTRICTIONS.
4. THE SUBCONTRACTOR(S) IS/ARE RESPONSIBLE FOR ANY DAMAGE TO EXISTING SITE CONDITIONS TO REMAIN THAT ARE DUE TO SUBCONTRACTOR(S) OPERATIONS.
5. ITEMS TO BE REMOVED THAT ARE NOT STOCKPILED FOR LATER REUSE ON THE PROJECT OR DELIVERED TO THE OWNER SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE SUBCONTRACTOR(S).
6. THE SUBCONTRACTOR(S) SHALL BE RESPONSIBLE FOR COORDINATING THEIR EFFORTS WITH ALL TRADES.
7. THE SUBCONTRACTOR(S) SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
8. TEMPORARY CONSTRUCTION HAUL ROADS SHALL BE USED DURING CONSTRUCTION IF DEEMED NECESSARY BY THE CONTRACTOR. THE USE OF SEPARATION FABRICS SHALL BE USED TO FACILITATE FUTURE REMOVAL AND RECOVERY OF GRANULAR MATERIALS. HAUL ROADS SHALL BE MAINTAINED DURING CONSTRUCTION WITH APPROPRIATE EROSION CONTROL AND STORMWATER REDUCTION MEASURES. ONCE REMOVED, THE SUB-BASE AREA SHOULD BE DECOMPACTED, LOAM REPLACED, AND RESEDED.
9. THE SITE ACCESS ROADS ARE DESIGNED TO MEET STATE FIRE CODE FOR FIRE TRUCK ACCESS. MEANS AND METHODS FOR ACCOMMODATING LARGER CONSTRUCTION DELIVERY VEHICLES MUST BE DETERMINED BY THE CONTRACTOR.
10. THE PROPOSED ROAD DESIGN SHOWN IN THESE PLANS SHALL BE CONSIDERED THE FINAL DESIGN CONDITION. ADDITIONAL MEANS AND METHODS OF CONSTRUCTION DEEMED NECESSARY BY THE OWNER OR CONTRACTOR SHALL BE DESIGNED BY OTHERS AND INCLUDED IN THE INITIAL EPC BID PRICE (INCLUDING, BUT NOT LIMITED TO: TEMPORARY HAUL ROADS, WIDENED OR LENGTHENED ROADS AND TURN OUT AREAS FOR LARGER CONSTRUCTION AND DELIVERY VEHICLES, TEMPORARY PARKING AND LAYDOWN AREAS, MODIFIED GRADING TO SUPPORT CONSTRUCTION AND DELIVERY VEHICLES, ETC.).

EROSION AND SEDIMENT CONTROL MEASURES

1. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
2. SEDIMENT BARRIERS SHALL BE INSPECTED AND APPROVED BY THE TOWN OF AGAWAM OR THEIR REPRESENTATIVE AND THE CONTRACTOR/CEOR BEFORE CONSTRUCTION BEGINS.
3. STRAW BALES AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE OF NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY WHEN INSTALLED.
4. DISTURBED AREAS SHALL BE BLANKETED OR SEEDED AND MULCHED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ALL ERODABLE/BARE AREAS SHALL BE BLANKETED OR SEEDED AND MULCHED WITHIN 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING.
5. PRIOR TO SEEDING, ACCESS AISLES, TEMPORARY STAGING, STORAGE, AND PARKING AREAS ARE TO BE DE-COMPACTED AND RESTORED PER THE SWPPP.
6. STABILIZE SLOPES GREATER THAN 3:1 (HORIZONTAL: VERTICAL) WITH SEED, SECURED GEOTEXTILE FABRIC, SPRAYED COMPOST BLANKET, OR RIP-RAP AS REQUIRED TO PREVENT EROSION DURING CONSTRUCTION.

- SEDIMENT BARRIERS SHALL BE CONSTRUCTED AROUND ALL SOIL STOCKPILE AREAS.
8. CLEAN OUT PROJECT DRAINAGE FEATURES AND STRUCTURES (I.E. CULVERTS, BASINS, SWALES, ETC.) AFTER COMPLETION OF CONSTRUCTION.
9. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE SEDIMENT CONTROL MEASURE.
10. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE SUBCONTRACTOR(S) SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AT THE CONTRACTOR/CEOR DIRECTION.
11. AFTER THE REMOVAL OF TEMPORARY EROSION CONTROL MEASURES, THE SUBCONTRACTOR(S) SHALL GRADE AND SEED AREA OF TEMPORARY EROSION CONTROL MEASURE.
12. DAMAGED OR DETERIORATED EROSION AND SEDIMENT CONTROL ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION OR AS DIRECTED BY THE CONTRACTOR/CEOR.
13. THE CONTRACTOR'S SITE SUPERINTENDENT IS RESPONSIBLE FOR DAILY INSPECTIONS, MAINTENANCE, AND DIRECTING REPAIR ACTIVITIES. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES ONCE EVERY SEVEN (7) CALENDAR DAYS OR ONCE EVERY FOURTEEN (14) DAYS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2 INCH PRECIPITATION, IN ACCORDANCE WITH THE NPDES REQUIREMENTS. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS.
14. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING, IF REQUIRED, SHALL BE FILTERED.
15. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION/SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY CONTRACTOR/CEOR.
16. GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY.
17. NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. NO RE-FUELING SHALL OCCUR WITHIN 100 FEET OF ANY WETLAND RESOURCE AREA AND 200 FEET FROM RIVERFRONT. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
18. THE COST OF REPAIRING EROSION CONTROL MEASURES OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
19. EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
20. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT DUST FROM FORMING.
21. EROSION CONTROL MEASURES AS SHOWN ON THESE DRAWINGS IS INTENDED TO CONVEY MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES AS NECESSARY TO PREVENT SOIL EROSION AND TO COMPLY WITH THE PROJECT'S NPDES PERMIT STORMWATER POLLUTION PREVENTION PLAN.

LAYOUT AND MATERIAL NOTES

1. THE CONTRACTOR SHALL HAVE PERIMETER FENCE, ELECTRICAL TRENCHES, AND PAD LIMITS STAKED OUT BY A LICENSED LAND SURVEYOR PRIOR TO ANY INSTALLATION OF EQUIPMENT PADS OR TRENCHES.
2. EXCESS TRENCH MATERIAL SHALL BE PLACED ON THE SIDES OF THE TRENCH AND PLACED AT OR NEAR THE SAME LOCATION AS WHERE EXCAVATED. TOPSOIL REMOVED SHALL BE PLACED ON TOP AND LIGHTLY COMPACTED.
3. SUBCONTRACTOR SHALL INSTALL CONDUITS FOR ALL ELECTRIC CONDUIT CROSSINGS PRIOR TO INSTALLATION OF THE GEOGRID MATERIAL. THE GEOGRID SHALL NOT BE HORIZONTALLY CUT ONCE INSTALLED.

GRADING NOTES

1. WHERE PROPOSED GRADES MEET EXISTING GRADES, SUBCONTRACTOR(S) SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES, PUBLIC ROADWAYS, AND ELECTRICAL EQUIPMENT AREAS.



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COMMONWEALTH OF MASSACHUSETTS
ROBERT J. BUKOWSKI
CIVIL
No. 41492
REGISTERED
10/25/2024

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0	10/01/24	RWG	MRC	SITE USE PERMIT SET
1	10/17/24	RWG	SPR	FIRE DEPARTMENT COMMENTS
2	10/25/24	DED	MRC	SPR ENGINEERING COMMENTS

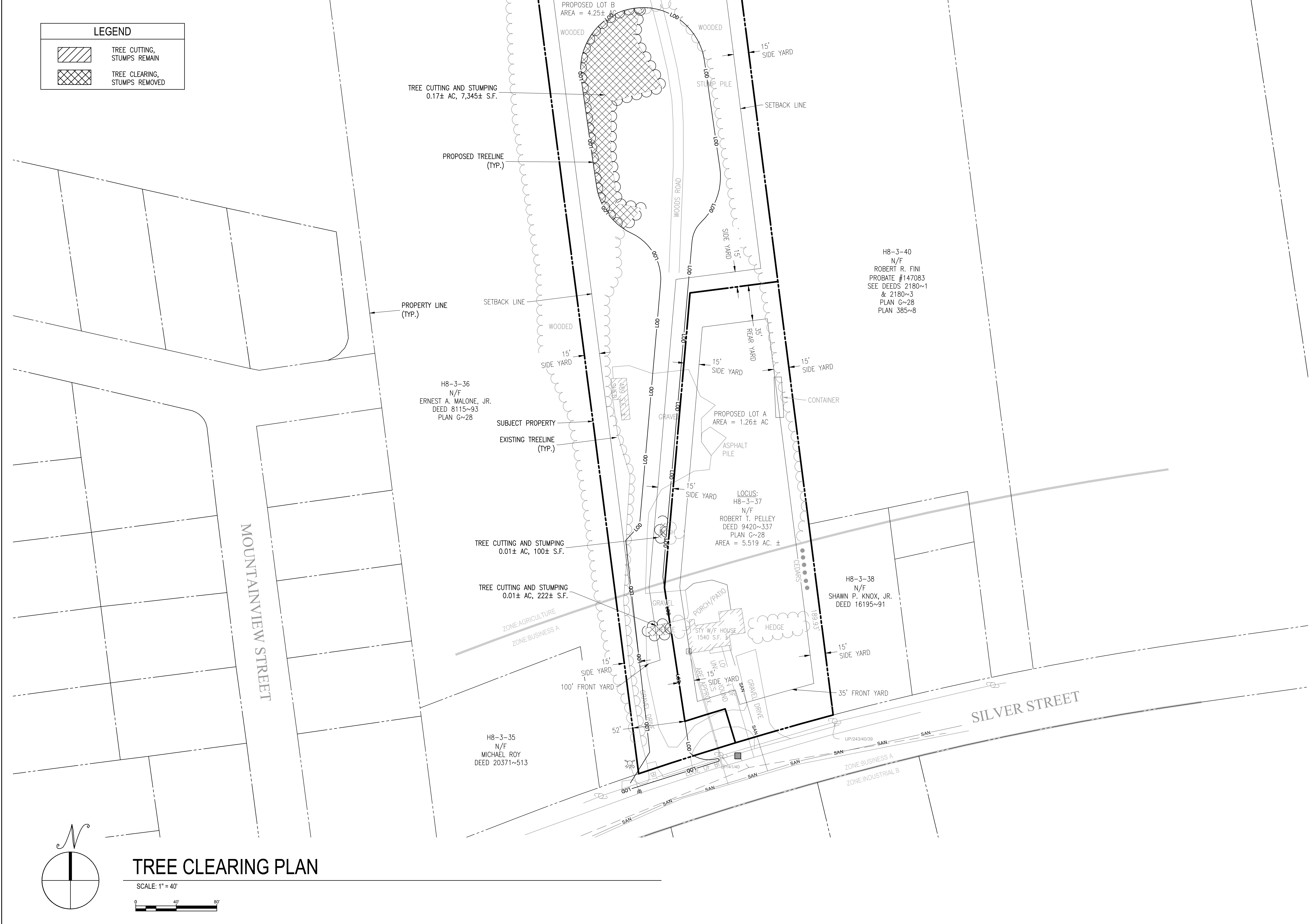
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-1.0

EXISTING CONDITIONS PLAN

NOTE:

1. EXISTING CONDITIONS TOPOGRAPHY AND APPROXIMATE BOUNDARY LINES FROM "LIMITED ALTA/NSPS LAND TITLE SURVEY OF LAND IN AGAWAM, MA", DATED 2/1/2022, AND PREPARED BY NORTHEAST SURVEY CONSULTANTS. THIS EXISTING CONDITIONS PLAN IS NOT A BOUNDARY SURVEY.



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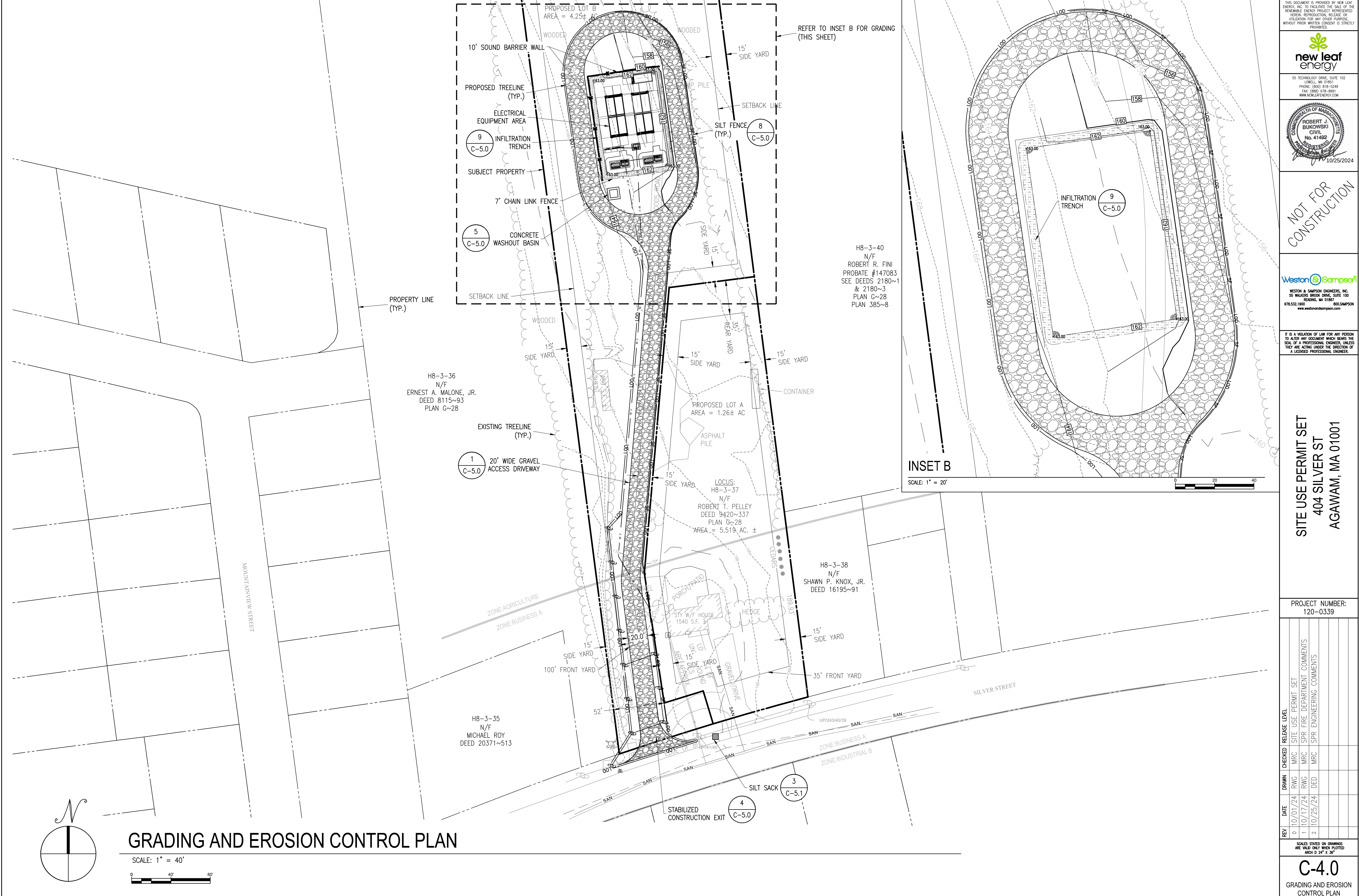
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TREE CLEARING PLAN



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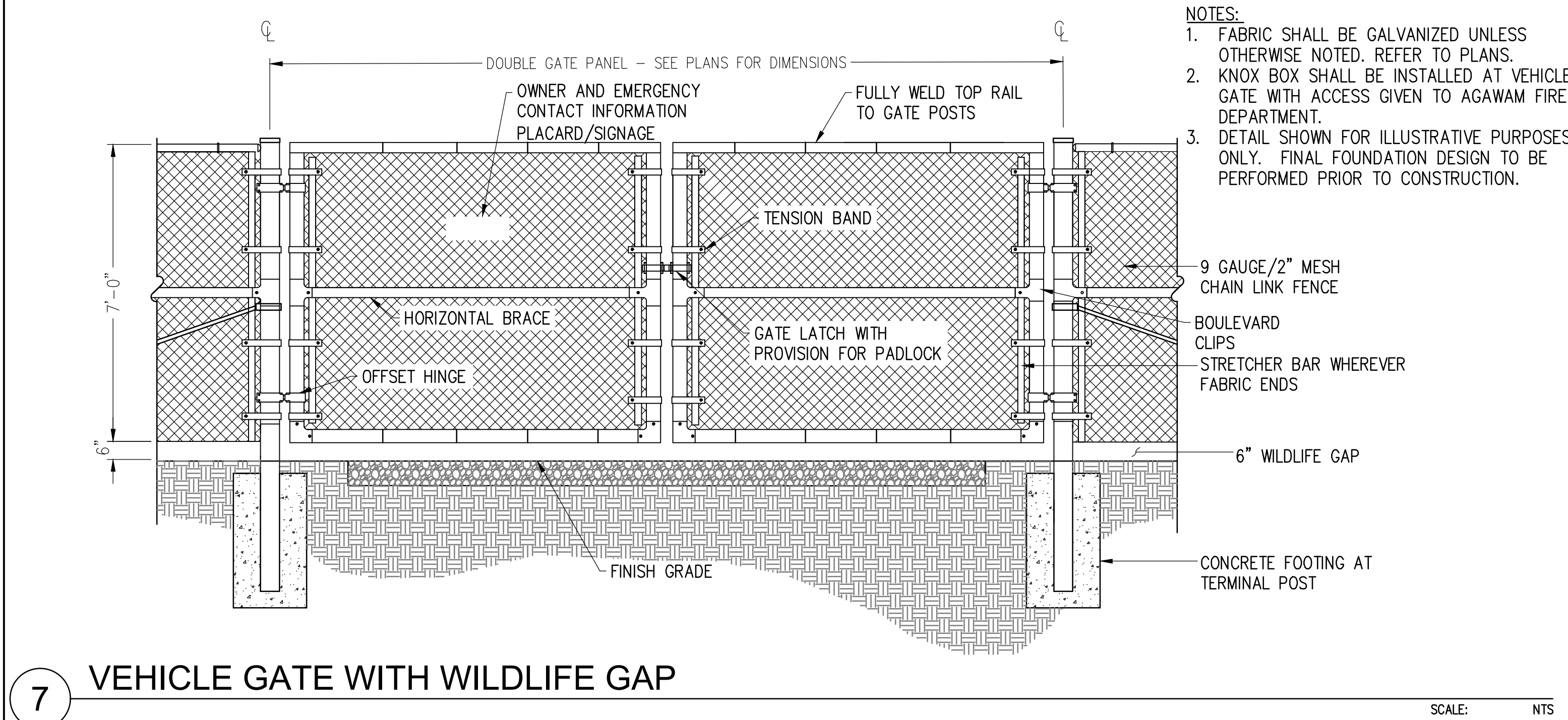
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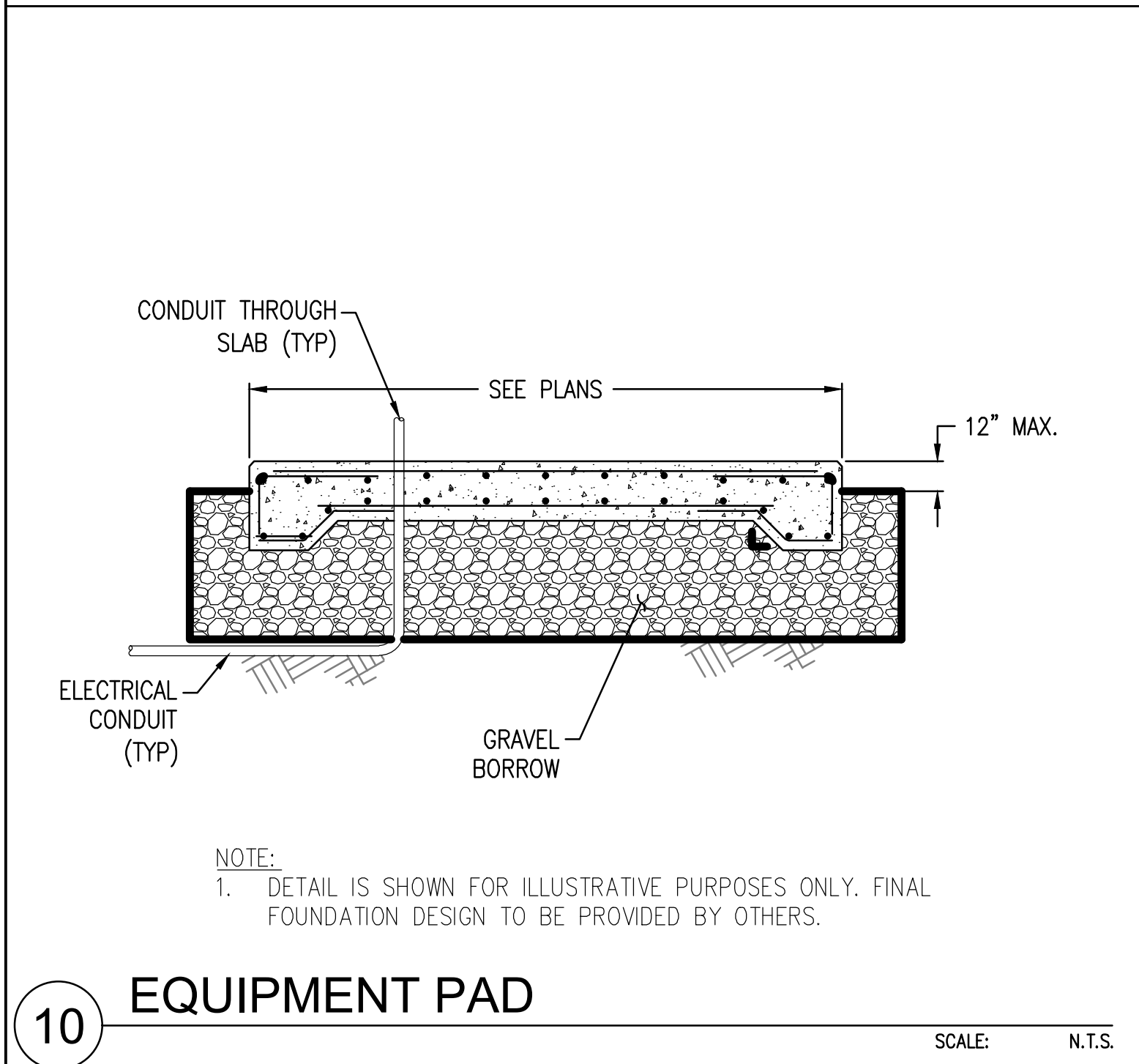
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SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

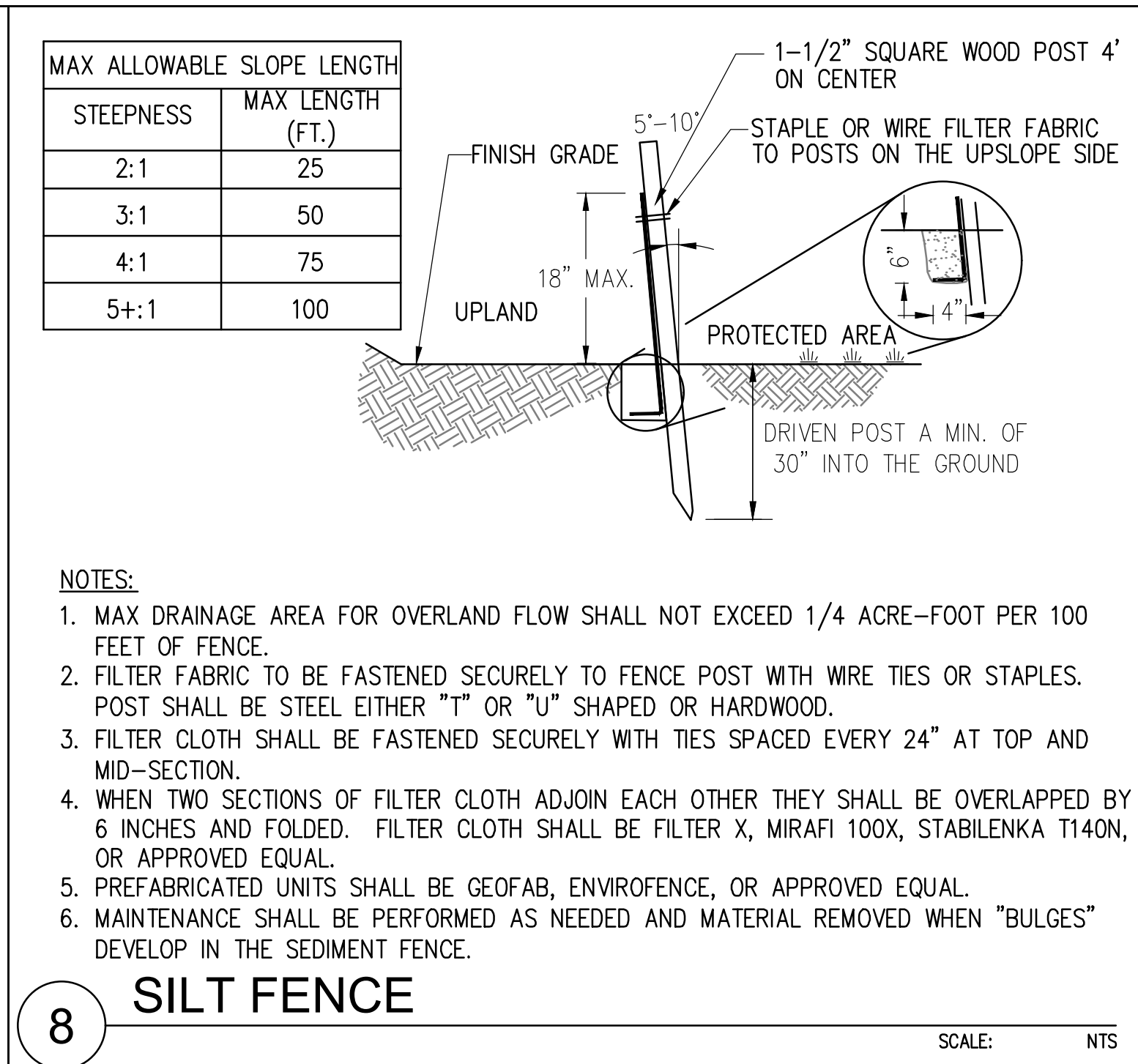
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GRADING AND EROSION CONTROL PLAN



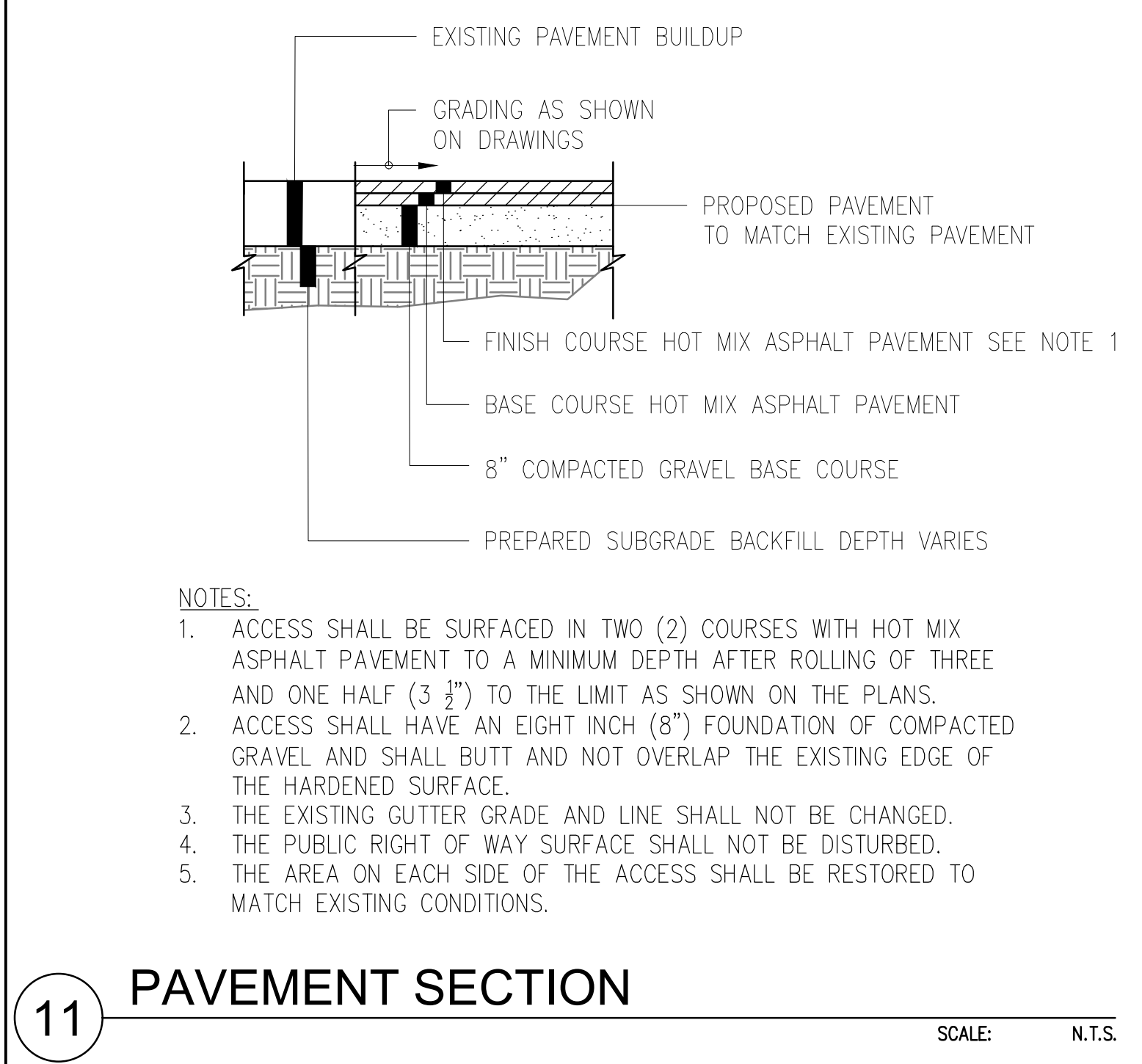
7 VEHICLE GATE WITH WILDLIFE GAP



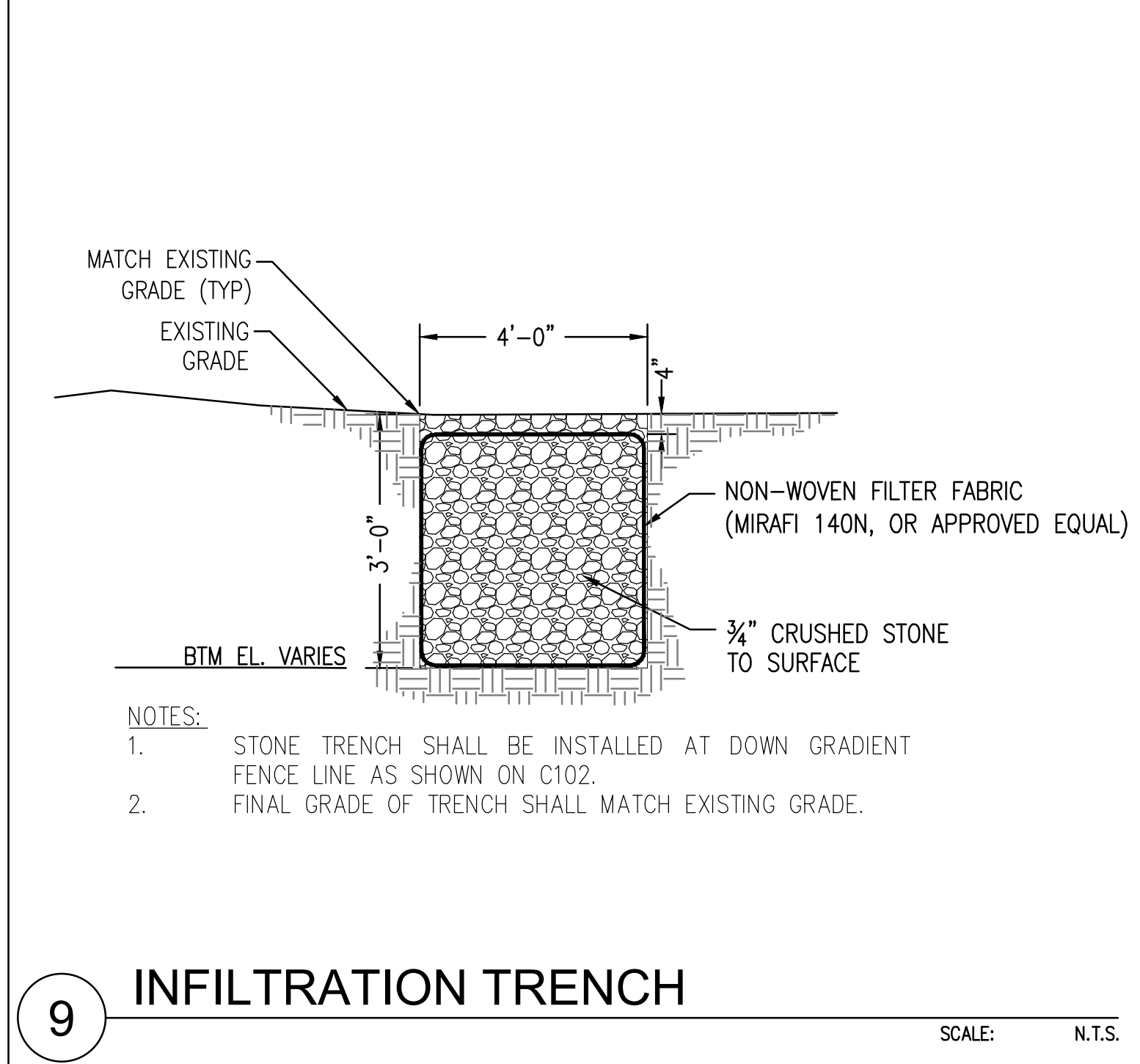
10 EQUIPMENT PAD



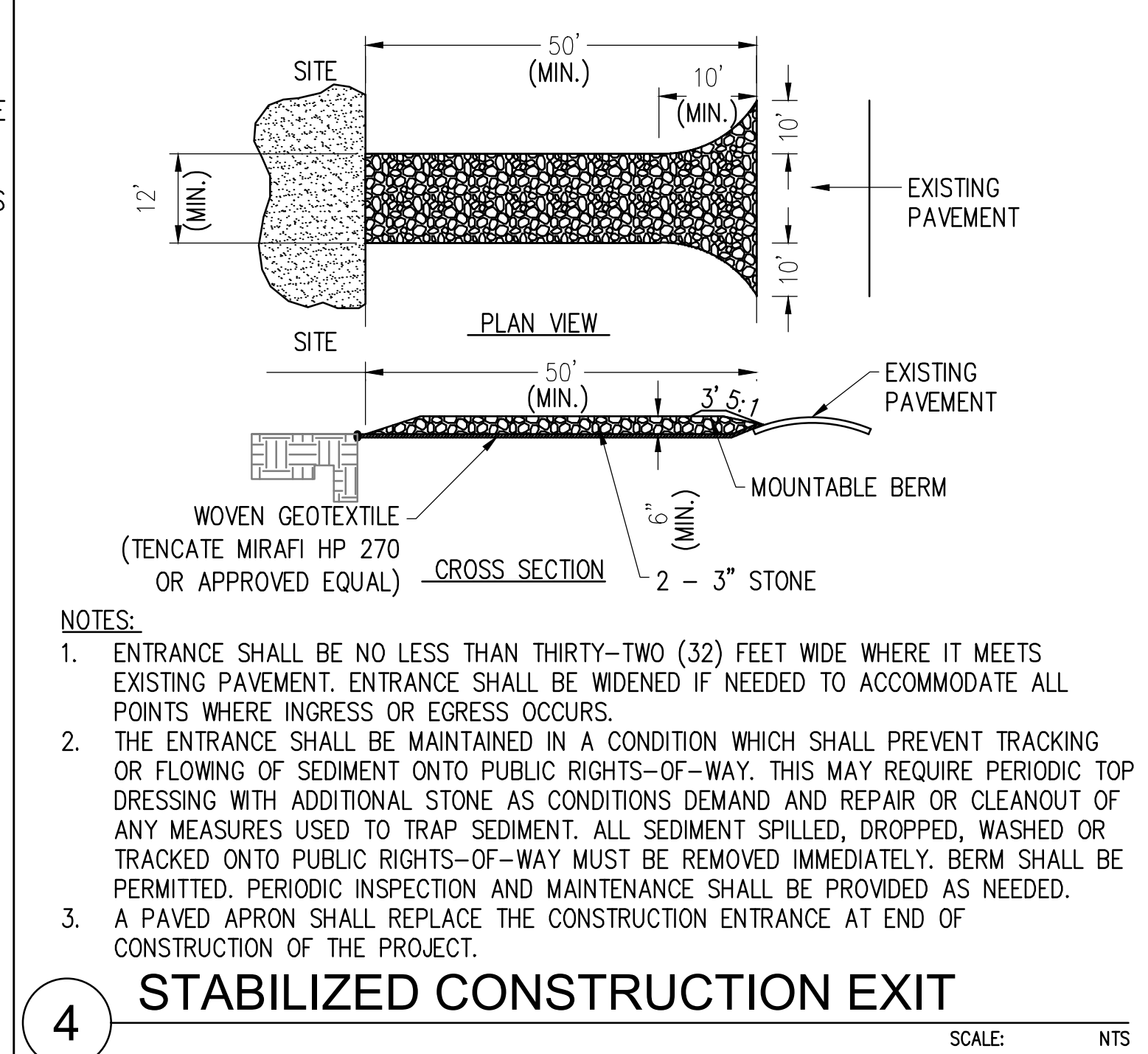
8 SILT FENCE



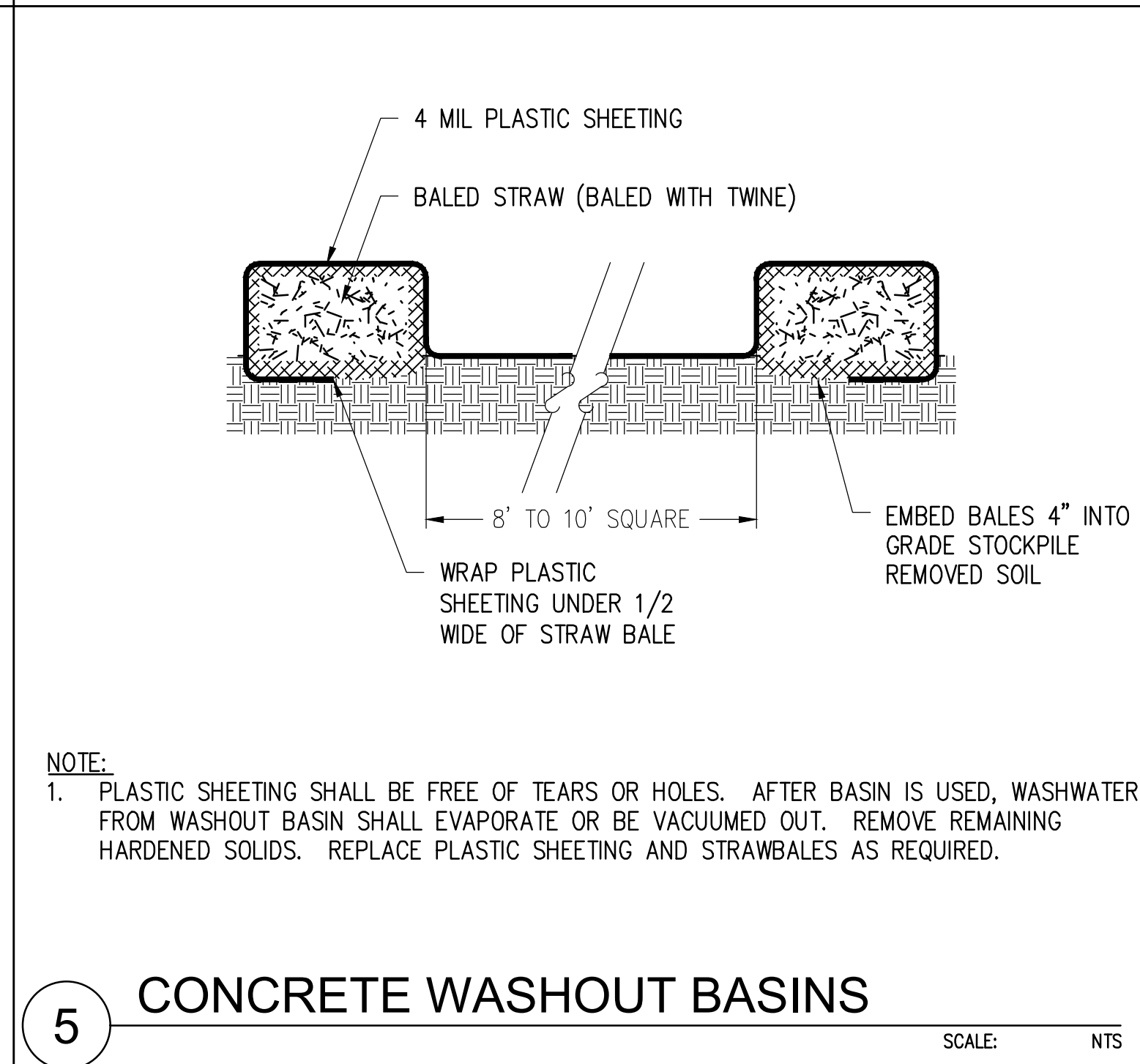
11 PAVEMENT SECTION



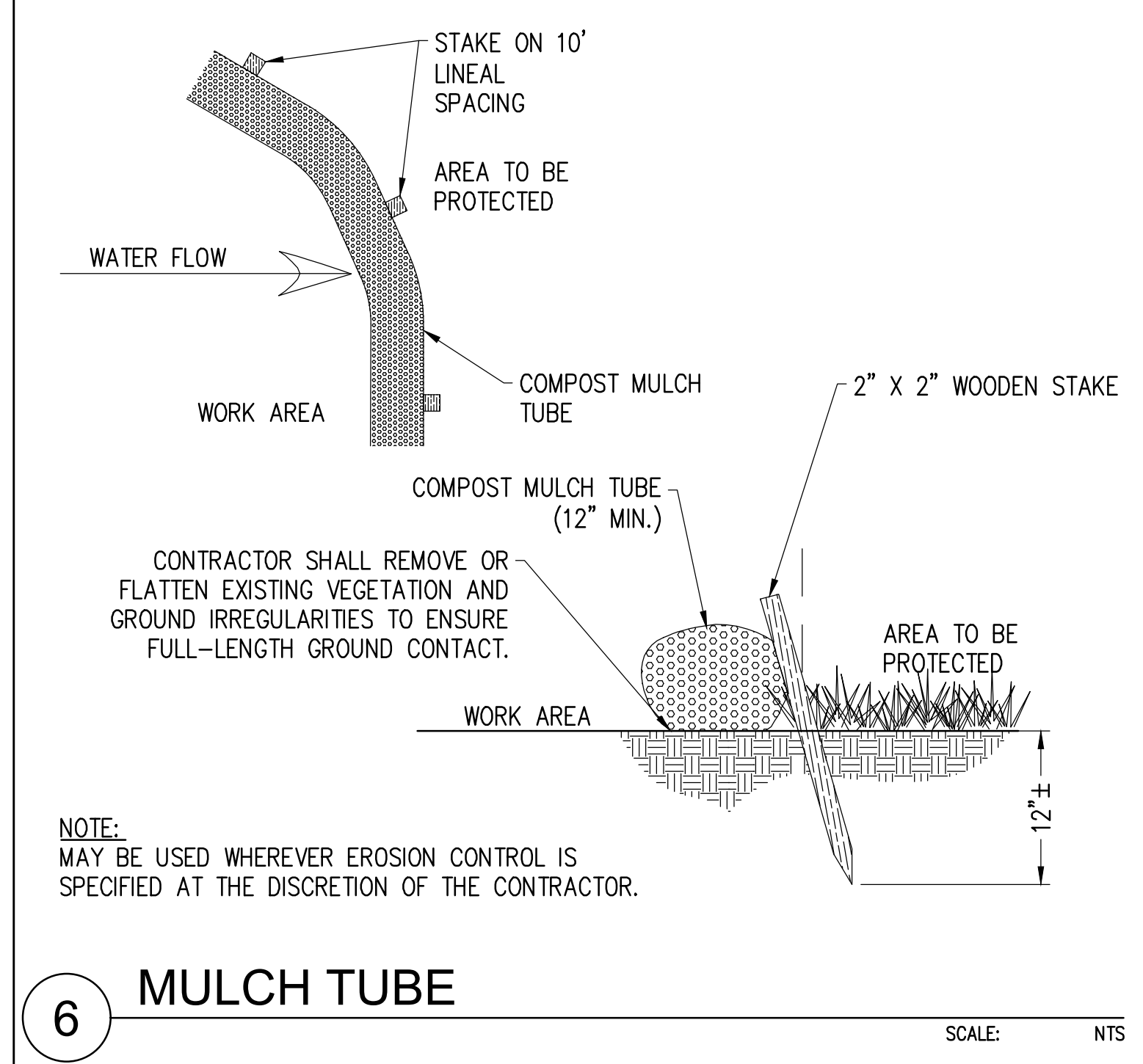
9 INFILTRATION TRENCH



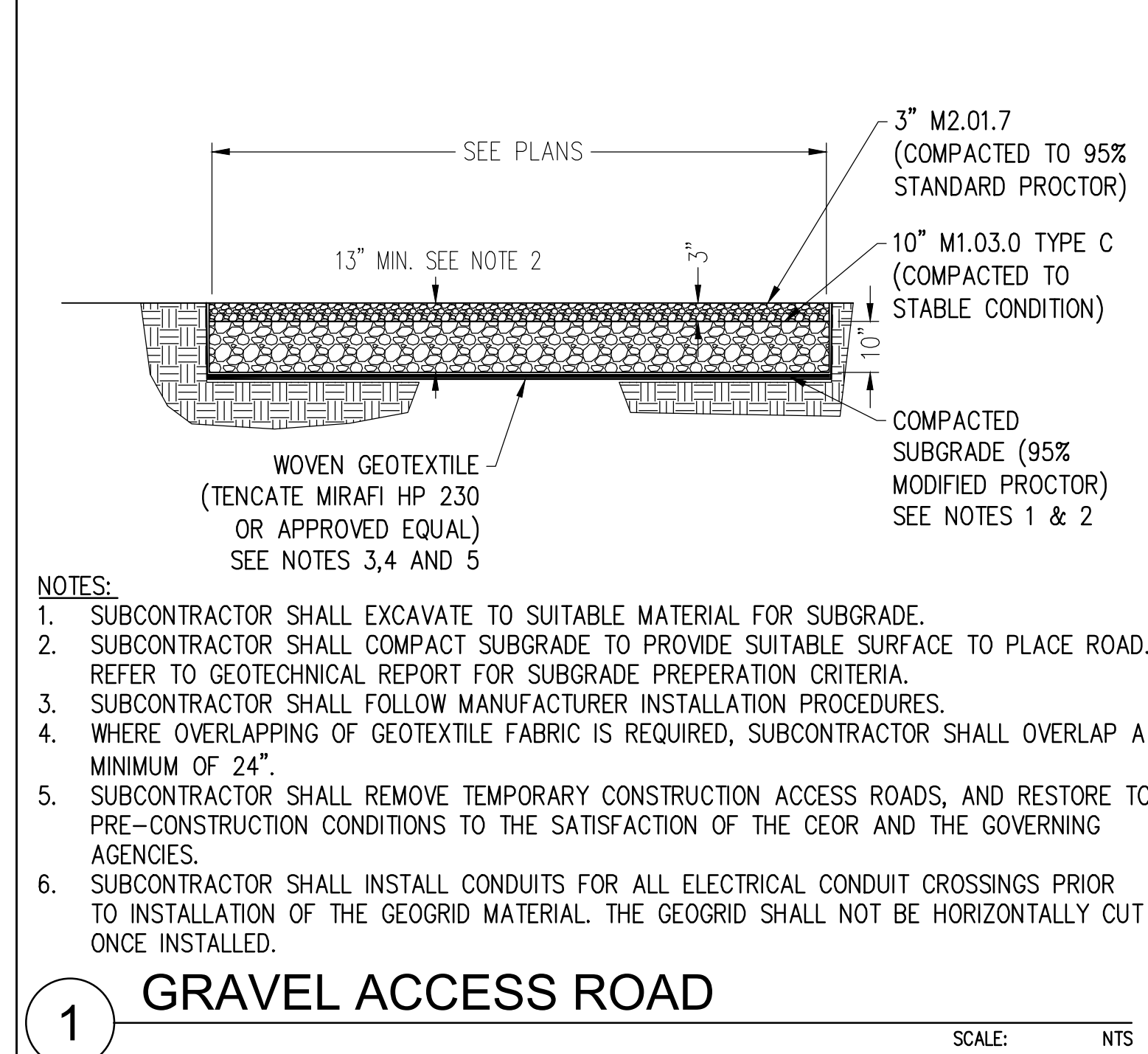
4 STABILIZED CONSTRUCTION EXIT



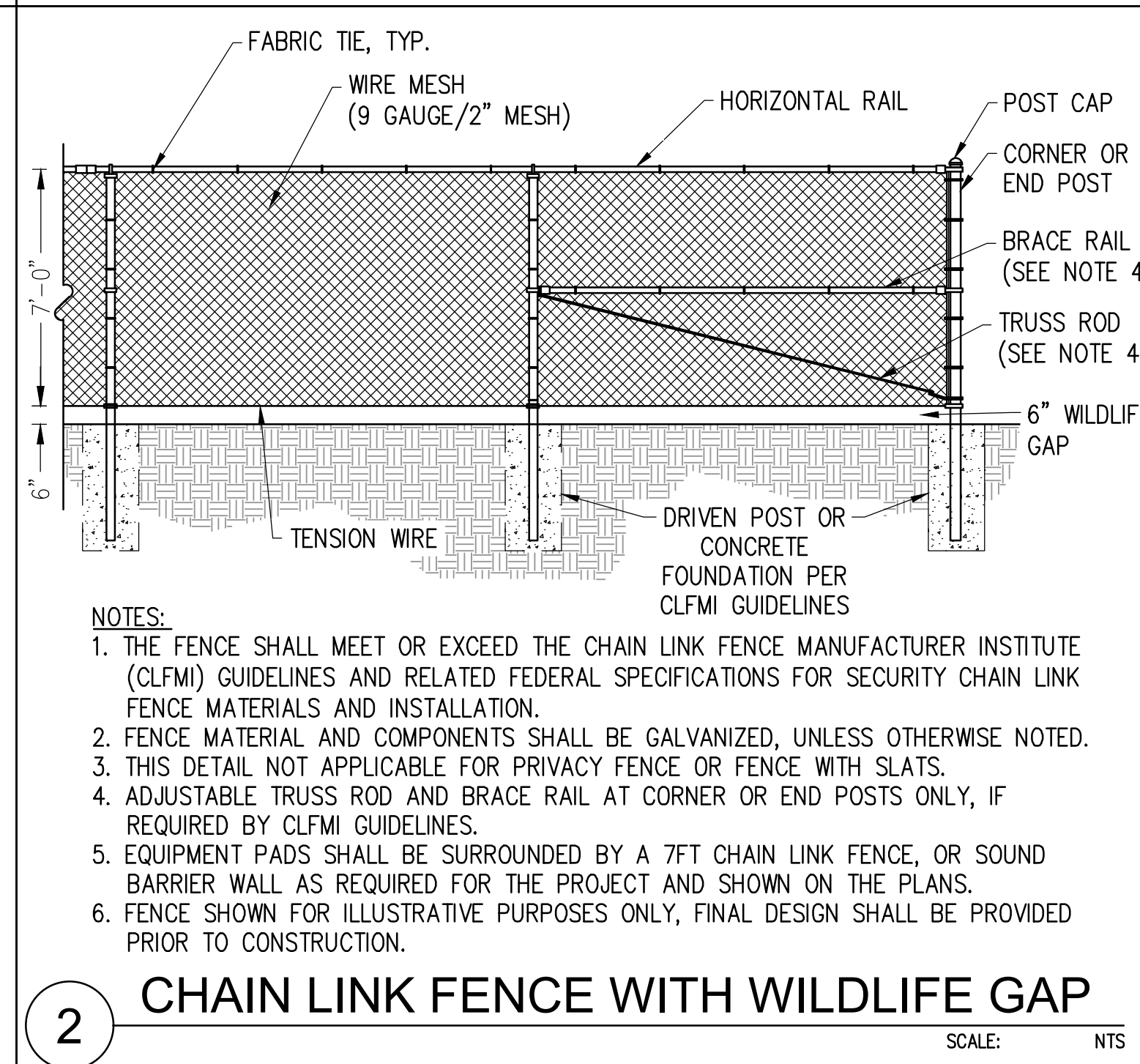
5 CONCRETE WASHOUT BASINS



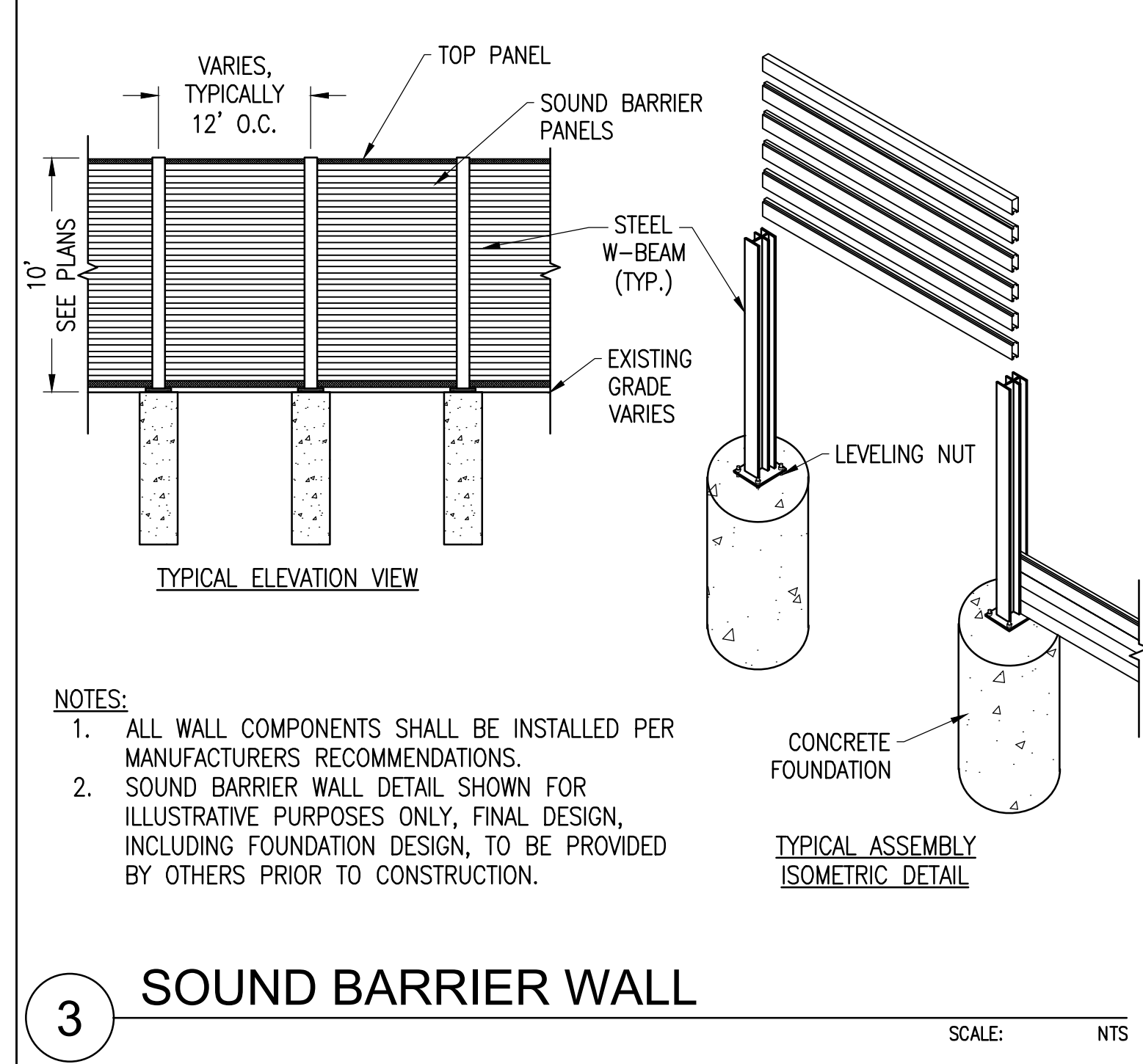
6 MULCH TUBE



1 GRAVEL ACCESS ROAD



2 CHAIN LINK FENCE WITH WILDLIFE GAP



3 SOUND BARRIER WALL

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1	10/17/24	RWG	MRC	SPR FIRE DEPARTMENT COMMENTS
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SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ASH 12" X 24" X 36"

C-5.0

CIVIL DETAILS



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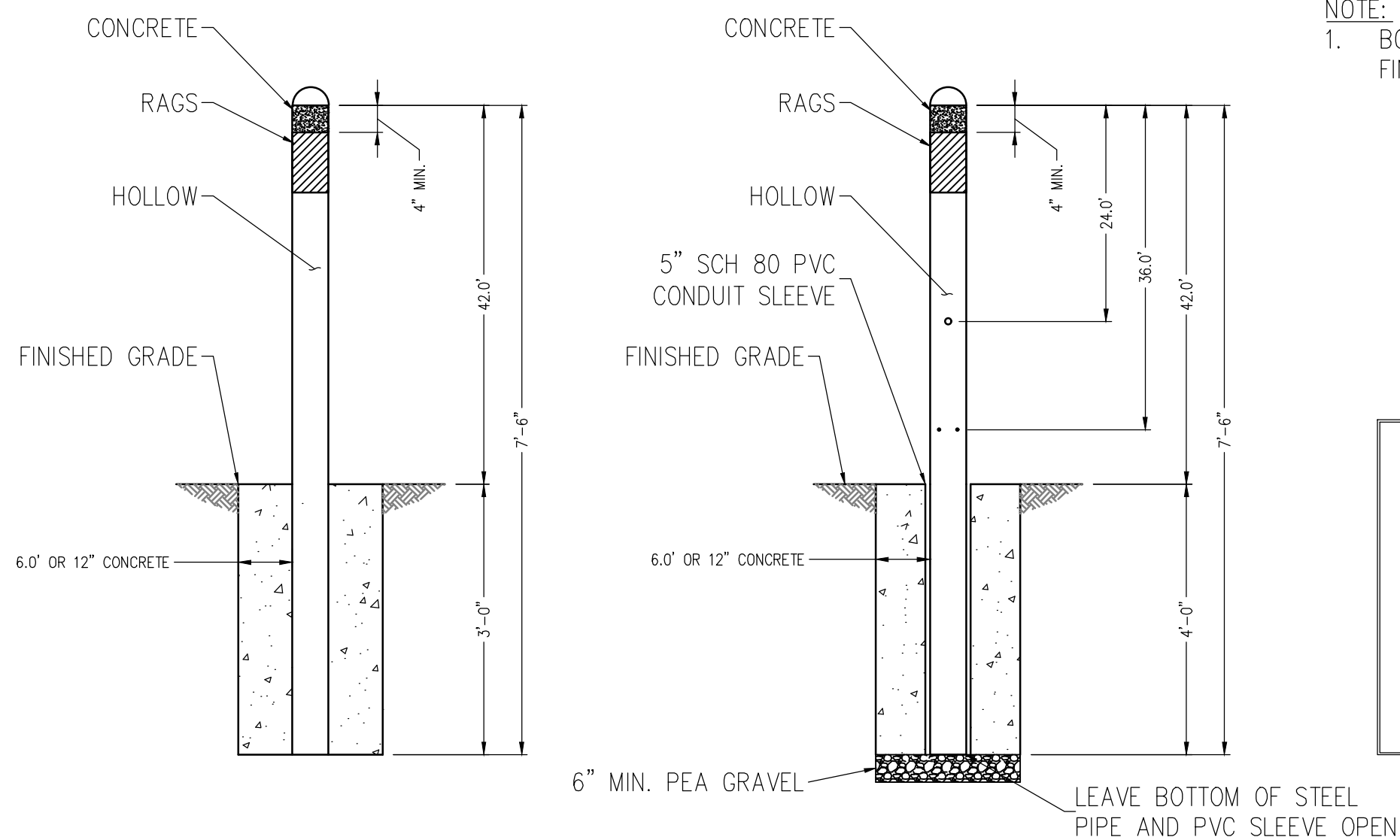
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PROJECT NUMBER:
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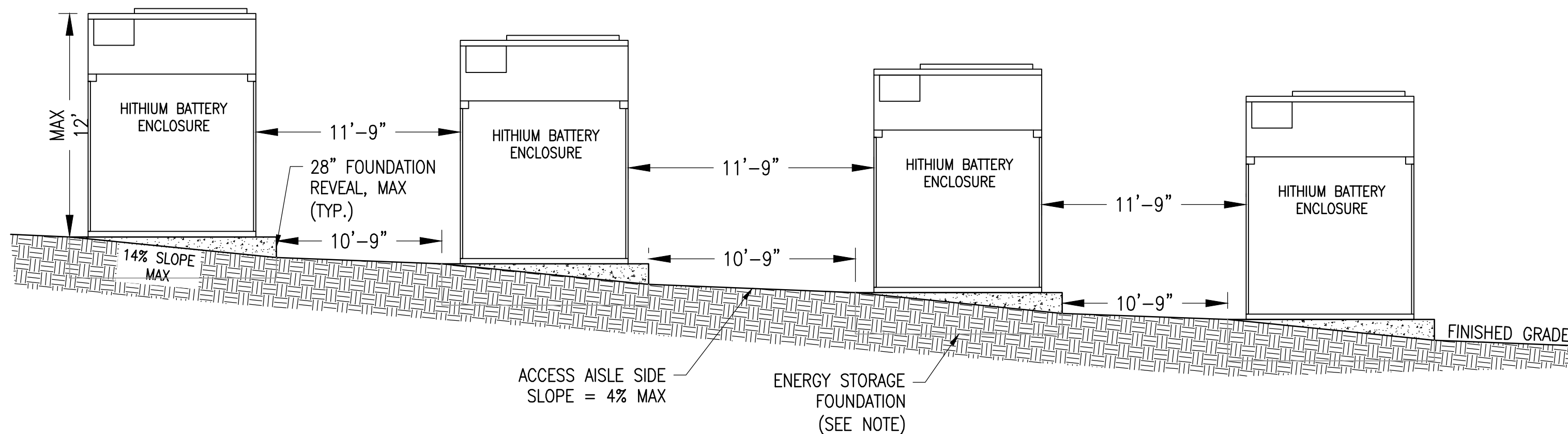
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2	10/25/24	DED	MRC	SPR ENGINEERING COMMENTS

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C-5.1

REMOVABLE
BOLLARD

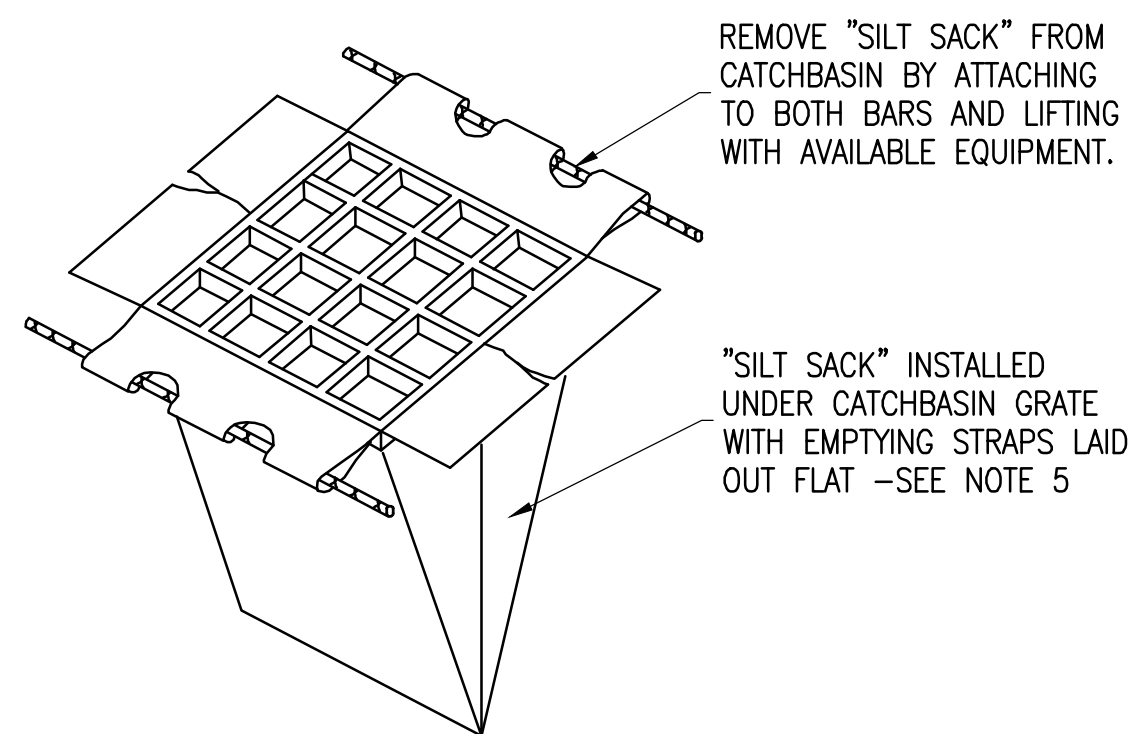
SCALE: N.T.S.



NOTE

1. DETAIL SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL EQUIPMENT LAYOUT AND FOUNDATION DESIGN TO BE PERFORMED BY OTHERS.

SCALE: NTS
2023-12-07



NOTES:

1. REMOVE DRAIN GRATE AND INSERT "SILT SACK", MAKING SURE EMPTYING STRAPS ARE LAID FLAT OUTSIDE OF BASIN.
2. REPLACE DRAIN GRATE TO HOLD "SILT SACK" INTO POSITION.
3. AS "SILT SACK" BECOMES FULL OF SEDIMENT, REMOVE WITH FRONT END LOADER (OR OTHER SUITABLE EQUIPMENT) AND EMPTY IN AN APPROVED LOCATION.
4. REPLACE EMPTIED "SILT SACK" BACK INTO CATCH BASIN.
5. PRODUCT SHALL BE ACF ENVIRONMENTAL TYPE A SILT SACK OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

SCALE: NTS

Attachment B - Revised Stormwater Report



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REPORT

October 2024

Silver Street Energy Storage, LLC
c/o New Leaf Energy, Inc.

Battery Energy Storage System

404 Silver Street,
Agawam, Massachusetts 01001

Stormwater Report

Applicant/Project Name: Silver Street Energy Storage, LLC
c/o New Leaf Energy, Inc.
Proposed Battery Energy Storage System

Project Location: 404 Silver Street (Map H8, Block 3, Lot 37)
Agawam, MA 01001

Application Prepared by:
Firm: Weston & Sampson Engineers, Inc.
Registered PE: Robert J. Bukowski, P.E.

Below is a summary of the existing site conditions, proposed site design, and an explanation describing the Provisions of the Water & Sewer Ordinance section of the Town of Agawam Code (The Ordinance) as they apply to the battery energy storage system (BESS) project located 404 Silver Street (Map H8, Block 3, Lot 37) Agawam, MA 01001:

General

The proposed project is located at 404 Silver Street in Agawam, Massachusetts and is owned by Robert and Deborah Pelley. The site is bounded by Silver Street to the south, undeveloped woodland and residential properties to the east and west, and undeveloped woodland to the north. The site includes a residence, gravel road, undeveloped woodland, and wetlands on the northern portion of the site. A subdivision is proposed to divide the approximately 5.7-acre property into two parcels, one parcel with the existing residence and the second parcel including the remainder of the undeveloped parcel. A Locus Map is included in **Attachment A**.

The majority of the site slopes uniformly to the northeast, with a high point at the southwest corner of the site. The northern portion of the site contains a wetland, to which the northern edge of the site slopes toward. The area directly south of the wetland slopes north toward the wetland.

Weston & Sampson wetland scientists conducted field wetland delineations on August 8, 2024. Wetland resource areas were observed at the site. Wetland resource areas including three bordering vegetated wetlands (BVW), one perennial stream, one intermittent stream, and land under waterbodies and waterways (LUW) were identified on the property. These identified wetlands are located in the northern portion of the site. In accordance with the Massachusetts Department of Environmental Protection (MA DEP) 310 CMR 10.00: Wetlands Protection Act (WPA) Regulations, there is a 100 foot buffer zone associated with the onsite wetlands, and a 200 foot riverfront area associated with the onsite perennial stream.

The proposed project is for the installation a battery energy storage system (BESS) with a capacity of 5 megawatts (MW) and 20 megawatt hours (MWh). The system will consist of batteries, transformers, and inverters that will sit on concrete pads. This BESS equipment will be surrounded by a combination of a 7 foot tall chain link fence with a gate for access and 10 foot tall sound barrier wall. Pole-mounted interconnection equipment will allow interconnection to an existing power pole on Silver Street and will connect to the BESS by means of underground conduit. The total limit of work area is approximate 0.99 acres consisting of the battery storage equipment, fence, improved gravel access road, tree clearing, and overhead wire poles.

Minimal site grading is proposed for the implementation of the improved 20 foot wide gravel access road and the equipment pads. Tree clearing is proposed for the proposed power pole installation, gravel access road, and equipment pads. Outside of the areas of grading and tree clearing, the ground cover is expected to remain.

According to the United States Department of Agriculture Natural Resource Conservation Service (USDA NRCS) soil mapping data, the site is primarily comprised of hydrologic soil group (HSG) A soils, with HSG B

and B/D soils in the northern part of the site. NRCS Web Soil Survey maps and reports for hydrologic soil group, depth to water table, and depth to bedrock are included as **Attachment B**.

The site is not located within any FEMA flood hazard zones. The FEMA FIRMette map for the project site is included in **Attachment B**.

Rainfall data is referenced from NOAA Atlas 14, Volume 10, Version 3 for Agawam, Massachusetts and is included in **Attachment B**.

Stormwater Analysis:

The proposed project, as designed, will not result in an increase in peak runoff rates from pre- to post-development conditions. Existing and proposed peak design flows were assessed using the National Resources Conservation Service (NRCS) Technical Release 20 (TR-20) methodology. HydroCAD® version 10.10-3a stormwater modeling software was used to analyze and compare pre- and post- development stormwater conditions for the 2-, 10-, and 100-year 24-hour storm events. HydroCAD® is a comprehensive hydrodynamic modeling program which analyzes and designs site hydrology, surface drainage systems, and storm drains. It can manage a variety of flow situations such as overland flow, drainage swales, ponds, and piping systems.

A summary of the analysis is provided below, the full stormwater reports for pre- and post- development conditions with associated hydrologic maps are included in **Attachment C**.

Existing Hydrology:

The stormwater analysis for this project was modeled using the property line as the general limit of the drainage area boundary.

Figure 1 of **Attachment C** displays the limits of the drainage area, time of concentration flow paths, and existing ground cover. Below is a summary of the existing drainage area:

- **Drainage Area 1 (E1)** – Residential building, existing gravel road, grassed areas, wooded areas, dirt piles, and wetlands.

One point of analysis (POA) has been determined to analyze the stormwater impacts of the post-development conditions compared to the pre-development conditions.

Proposed Hydrology:

Compared to pre-development conditions, the proposed development will have an increase in impervious area due to the proposed equipment pads and an increase in gravel due to the proposed access road. The proposed stormwater design utilizes an infiltration trench surrounding the equipment pad area to maintain reduced peak flows compared to pre-development conditions. The infiltration trench will also provide pollutant removal for the added impervious area, see **Attachment D** for retention volume calculations.

Figure 2 of **Attachment C** displays the limits of the proposed drainage area, time of concentration flow paths, and proposed ground cover. Below is a summary of the proposed drainage area:

- **Drainage Area 1 (P1)** – Residential building, existing gravel road, grassed areas, wooded areas, dirt piles, wetlands, and proposed access road.
- **Drainage Area 2 (P2)** - Proposed BESS equipment, proposed equipment pads, and infiltration trench.

Provisions of the Water & Sewer Ordinance and Stormwater Management Ordinance of the Town of Agawam Code (The Ordinance) relative to the project, followed by an analysis of the project's compliance with applicable provisions (in underlined font), are listed below. The outlined regulations represent an

analysis primarily applicable to Article IV, Sanitary Sewers, Storm Drains, and Connections, Section 175-35, Stormwater Management Plan, and Article III, Stormwater Management Permit of the Ordinance.

Article IV. Sanitary Sewers, Storm Drains, and Connections

175-35. Stormwater Management Plan.

The stormwater management plan shall demonstrate a comprehensive plan intended to address changes in runoff characteristics due to a proposed construction project. Both short-term and long-term alterations in flow paths, runoff volume, and runoff characteristics must be addressed. The protection of regulated water resources is required. The use of natural pre-existing vegetation and/or the planting of native species to provide runoff mitigation is strongly encouraged.

Alterations in flow paths, runoff volume, and runoff characteristics are addressed in the watershed plans and HydroCAD calculations in **Attachment C**.

A. Stormwater management performance standards. The Superintendent of the Department of Public Works may alter the stormwater management performance standards at his discretion. These standards do not relieve the applicant from complying with all state and federal regulations.

Acknowledged.

B. Construction erosion and sediment controls. Temporary control measures to keep disturbed soils on the construction site, prevent erosion and control and remove sedimentation due the construction process. The Department of Public Works shall develop design guidelines for this purpose. They shall be based upon Massachusetts Department of Environmental Protection Erosion and Sediment Control Policies. The erosion and sediment control plan shall be prepared by a registered professional engineer.

Proposed construction erosion and sediment controls are shown on the Post-Development Watershed Plan (Figure 2), included in **Attachment C**. A construction period pollution and prevention and erosion and sedimentation control plan is included in **Attachment F**.

C. Permanent measures; runoff quality and quantity best management practices.

(1) New Development. New commercial, industrial, and residential sites, unless exempted in § 175-22B, must comply with the stormwater management performance standards.

Acknowledged, the BESS is a new development and complies with the stormwater management performance standards.

(a) Stormwater management measures shall be required to satisfy the control requirements and shall be implemented in the following order of preference:

[1] Flow attenuation and pollutant removal of runoff on site to existing areas with grass, trees, and similar vegetation and through the use of open vegetated swales and natural depressions with appropriate stabilization measures to ensure long-term operation.

Peak flows are decreased in post-development conditions compared to pre-development conditions, see **Attachment D** for table depicting peak flows.

[2] Stormwater detention pond for the temporary storage of runoff, which is designed so as not to create a permanent pool of water.

There are no stormwater detention ponds proposed for this project, however, there is an infiltration trench proposed for temporary storage of runoff from the equipment pad area. This infiltration trench is included on the Post-Development Watershed Plan (Figure 2) and in the post-development HydroCAD report, both included in **Attachment C**.

[3] Stormwater retention structures for the permanent storage of runoff by means of a permanent pool of water. This type of system will not be allowed for subdivisions.

Not applicable. There are no permanent retention structures proposed for this project.

[4] Retention and evaporation of stormwater on rooftops or in parking lots. This type of system will not be allowed for subdivisions.

Not applicable. There are no rooftops or parking lots proposed for this project.

(b) Peak flow rates. Peak flow rates for the post-construction conditions must not exceed the peak flow rates for the preconstruction condition for one-hundred-year twenty-four-hour design storm events. The two-year twenty-four-hour, ten-year twenty-four-hour post-construction peak flow rate must be mitigated to the maximum extent practicable.

Peak flow rates for the post-construction conditions do not exceed the peak flow rates for the pre-construction conditions. A summary of the pre- and post-development peak flow rates is included in **Attachment D**.

(c) Minimize pollutants. Best management practices shall be employed to minimize pollutants in stormwater runoff prior to discharge into a separate storm drainage system or water body. Runoff from parking lots over two acres shall be treated by oil and water separators or other controls to remove oil and sediment.

An infiltration trench is proposed to surround the equipment pad area to collect runoff, the infiltration trench is shown on the Post-Development Watershed Plan (Figure 2) included in **Attachment C**.

(d) Projects involving the storage or use of hazardous chemicals or petroleum products shall incorporate handling and storage best management practices that prevent such chemicals from contaminating runoff from the site into infiltration systems, receiving water bodies, or the MS4, and shall include a list of such chemicals in the application.

Not applicable, storage of hazardous chemicals or petroleum products is not proposed.

(e) Connection to MS4. If the destination for the outlet of a detention system is the MS4, the applicant must evaluate the existing capacity and condition of that system. If there are existing deficiencies or extra capacity is not available to accept

additional flows from the project site, the applicant will be required to design and construct improvements or reduce the outlet flow rate based on existing capacity.

Not applicable. Connection to MS4 is not proposed.

(f) Emergency overflow. All detention ponds shall be designed to provide an emergency overflow system, and incorporate measures to provide a nonerosive velocity to flow along its length and at any outfall.

Not applicable. There are no detention ponds proposed for this project.

(h) Centralized detention facilities. Certain industrial areas have centralized detention facilities. The following describes the allowed percent of impervious area before on-site detention is required.

Not applicable. Proposed project is not a centralized detention facility.

(i) Detention ponds. The Department of Public Works shall develop design guidelines for this purpose. These standards may be updated from time to time. Public safety shall be considered in the design of any stormwater facilities. Detention ponds on private sites are encouraged to utilize the DPW design guidelines; at the DPW's discretion certain design standards may not apply to private sites. Detention ponds within easements to the Town must follow all design standards as directed by the DPW Superintendent.

Not applicable. There are no detention ponds proposed for this project.

(l) Detention pond maintenance requirements. Detention ponds within easements to the Town of Agawam require minor maintenance to be performed by the property owner on a regular basis.

Not applicable. There are no detention ponds proposed for this project.

(m) Calculation submittals for review by the DPW shall include the following components.

[1] Locus map.

A locus map is included in **Attachment A.**

[2] Site plan. This plan must include all relevant information for the hydrologic modeling of the site. Information shall include preconstruction and post-construction conditions at the same scale, which is appropriate for complexity and size of the project.

Hydrologic maps for pre- and post-construction conditions are included in **Attachment C.**

[3] Existing conditions and proposed impact mitigation; description/investigation of both up-gradient conditions which release runoff to the site and down-gradient areas which are the destination of the runoff from the site in question. The extent of this investigation must be such that the project designer and the DPW reviewer can have a good understanding of existing conditions, including flow paths, flooding

conditions, flow-limiting structures, wetlands or other water resources' ability to withstand current runoff flow rates and volumes. Proposed structures and improvements must be such that they extend far enough down stream to mitigate the proposed development and increases in impervious areas.

Minimal runoff flows to the site from areas west of the southern portion of the parcel and north of the northern portion of the parcel. Runoff from the site releases downgradient to an area east of the parcel. Runoff from upgradient areas to the west and north, runoff from the site, and runoff to the downgradient area to the east have flow paths leading to a stream, which flows through the northern portion of the parcel. An infiltration trench is proposed to surround the equipment pad area to mitigate the added impervious area.

[4] Soil survey information; copy of Hampden County Soil Survey Map with site clearly outlined at the scale of the map. Copy must be clear such that soil type and hydrologic soil group can be determined. Also, list the soil types, and relevant characteristics for the purpose of modeling the project's runoff.

A copy of the NRCS Hydrologic Soils Group map for the project area is included in **Attachment B**.

[5] Hydrologic modeling data. All areas shall be modeled utilizing the TR 55 or TR 20 method of drainage calculation as appropriate. Submittals shall include the following information. Submittals will not be reviewed until complete information is given in an easy-to-follow format. The use of tables, summaries, and accompanying back-up data is strongly encouraged.

[a] Drainage subarea designations and outline locations for pre- and post-construction condition.

Drainage subarea designations and outline locations for pre- and post-construction conditions are included in the drawings in **Attachment C**.

[b] Time of concentration path location, path length, surface grade, soil type boundary location for pre- and post-construction condition.

Time of concentration path location, path length, surface grade, and soil type boundary location for pre- and post-construction conditions are included in the drawings in **Attachment C**.

[c] Modeling method description.

National Resources Conservation Service (NRCS) Technical Release 20 (TR-20) methodology. HydroCAD® version 10.10-3a stormwater modeling software was used to analyze and compare pre- and post- development stormwater conditions for the 2-, 10-, and 100-year 24-hour storm events. HydroCAD outputs are included in **Attachment C**.

[d] Model data for pre- and post-construction conditions, including model of all proposed flow rate control structures.

Model data for pre- and post-construction conditions is included in Attachment C.

[e] Model output for pre- and post-construction conditions, including model of all proposed flow rate control structures.

Model output for pre- and post-construction conditions is included in Attachment C.

[f] Preconstruction peak flow rate and post-construction peak flow rate at all design points for the site.

Pre- and post-construction condition peak flow rates are included in Attachment D.

D. Operation and maintenance, Long-Term.

(1) An operation and maintenance manual shall be developed by the project designer for the owner's use once construction on the proposed system is complete. The manual will include a description of each component of the drainage system, inspections, maintenance, and the frequency of each for continued operation of the system.

An operation and maintenance manual for upkeep of the proposed infiltration trench is included in Attachment E.

(2) See § 175-30B(5) for reporting requirements.

Acknowledged.

E. Owner/contractor certification statement; performance; and certificate of completion.

(1) Certification. The owner or authorized representative and all contractors and subcontractors shall sign certification statements as part of the permit application and the stormwater management plan. In signing the plan, the authorized representative certifies that the information is true and assumes liability for the plan. Official signatures provide a basis for an enforcement action to be taken against the person signing the document.

(a) The owner certification statement shall read:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person(s) who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

An authorization statement by the landowner and a certification statement by Silver Street Energy Storage, LLC, c/o New Leaf Energy, Inc. is included in Attachment G.

(b) Contractors and subcontractors certification statement.

[1] Contractors and subcontractors certification statement shall read:

"I certify under penalty of law that I understand the terms and conditions of the Storm Drain Permit that authorizes stormwater discharges associated with industrial activity from the construction site identified as part of this certification."

[2] The storm drain permit application shall list all contractors and subcontractors who will implement the measures identified in the stormwater management plan.

Not applicable. There is no storm drain permit associated with the proposed project.

Article III. Stormwater Management Permit 176-13: Purpose

A. Purpose

1. The purpose of this article is to better manage land development in order to protect, maintain, and enhance the public health, safety, and general welfare of the citizens of Agawam by establishing minimum requirements and procedures to control the adverse impacts associated with stormwater runoff from new development and redevelopment.

Acknowledged.

2. The proper management of stormwater runoff will meet the following objectives:

a) Establish regulations for land development activities that preserve the health of water resources by reducing the adverse water quality impacts from stormwater discharges to rivers, lakes, reservoirs, and streams in order to attain federal water quality standards.

The project does not propose adverse water quality impacts to rivers, lakes, reservoirs, or streams.

b) Require that new development, redevelopment, and all land conversion activities maintain the natural hydrologic characteristics of the land and treat for water quality in order to: reduce flooding, stream bank erosion, siltation, nonpoint source pollution, property damage, and to maintain the integrity of stream channels and aquatic habitats.

The project is proposed to maintain natural hydrologic characteristics of the land to the maximum extent possible.

c) Prevent the discharge of pollutants, including hazardous chemicals, into stormwater runoff.

The project does not propose the discharge of pollutants.

d) Minimize the volume and rate of stormwater discharges to rivers, streams, reservoirs, lakes and ponds during and following development activities.

The project is proposed to decrease the volume and rate of stormwater discharges compared to pre-development conditions. Pre- and post-construction condition peak flow rates are included in Attachment D.

e) Prevent erosion and sedimentation from land development, and reduce stream channel erosion caused by increased runoff

Proposed construction erosion and sediment controls are shown on the Post-Development Watershed Plan (Figure 2), included in Attachment C. A construction period pollution and prevention and erosion and sedimentation control plan is included in Attachment F.

f) Provide for the recharge of groundwater aquifers and maintain the base flow of streams.

Not applicable. The proposed project is not located at a groundwater aquifer or stream.

g) Advance the use of Low Impact Development and Better Site Design practices such as limiting disturbance, reducing impervious surface, treating and infiltration stormwater at the source, using environmentally sensitive site design, and the preservation of open space and other natural areas.

The proposed project limits disturbance to the maximum extent possible, and preserves surrounding natural areas. An infiltration trench is proposed to surround the equipment pad area to treat the runoff from the equipment pads at the source. The infiltration trench is included in the Post-Development Watershed Plan (Figure 2) included in **Attachment C**.

h) Provide stormwater facilities that are attractive, maintain the natural integrity of the environment, and are designed to protect public safety.

The proposed stormwater facility matches the intent of the proposed project and is located within the fence limits.

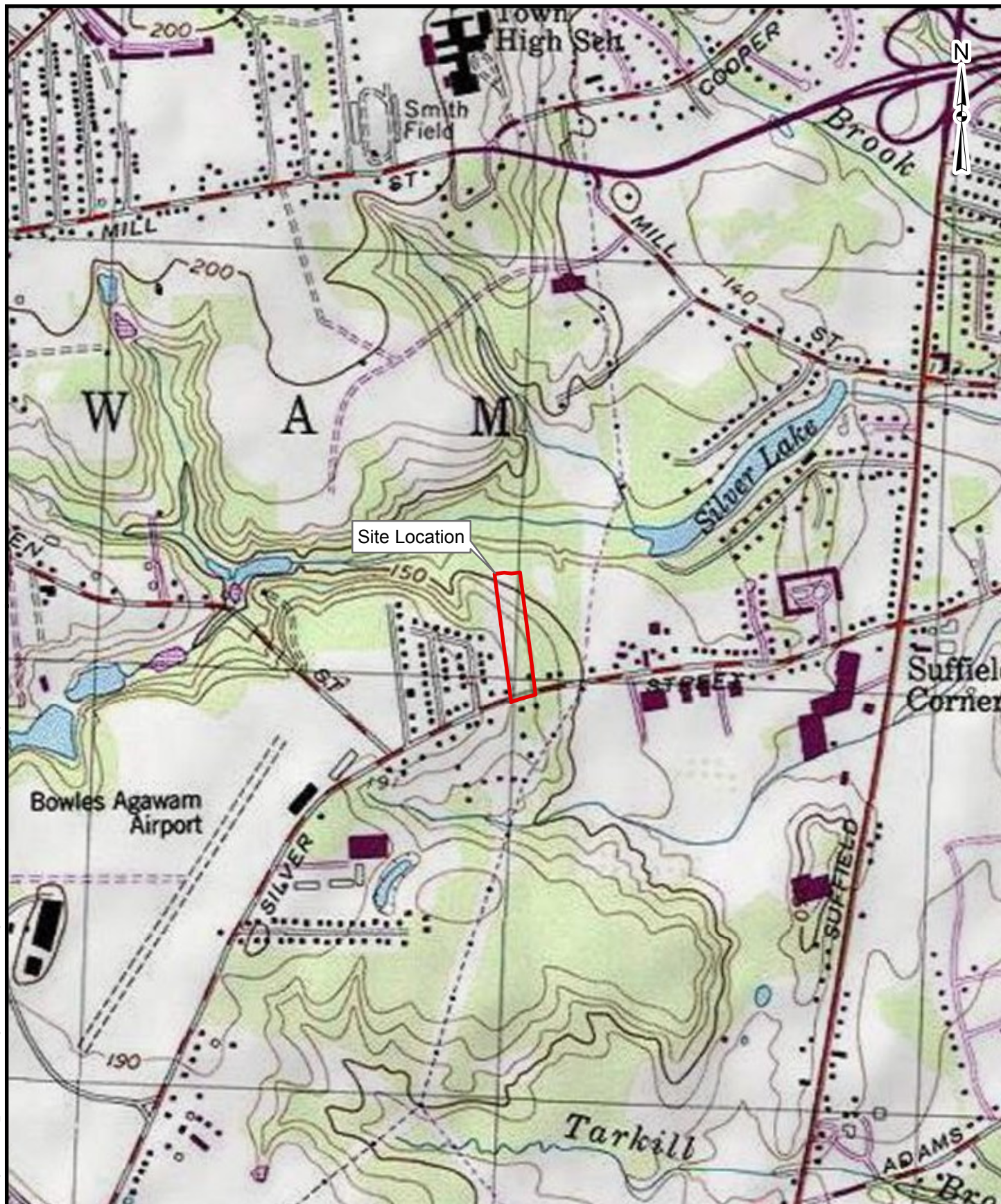
i) Establish maintenance provisions to ensure that stormwater treatment practices will continue to function as designed over the long term.

An operation and maintenance manual for upkeep of the proposed infiltration trench is included in **Attachment E**.

3. This ordinance and its associated Regulations are also intended to bring Agawam into compliance with requirements in the United States Environmental Protection Agency National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems in Massachusetts ("Massachusetts Small MS4 General Permit")

Acknowledged. The proposed project does not tie into municipal storm sewer systems.

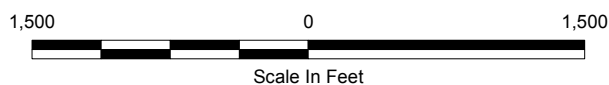
Attachment A - Locus Map



Legend

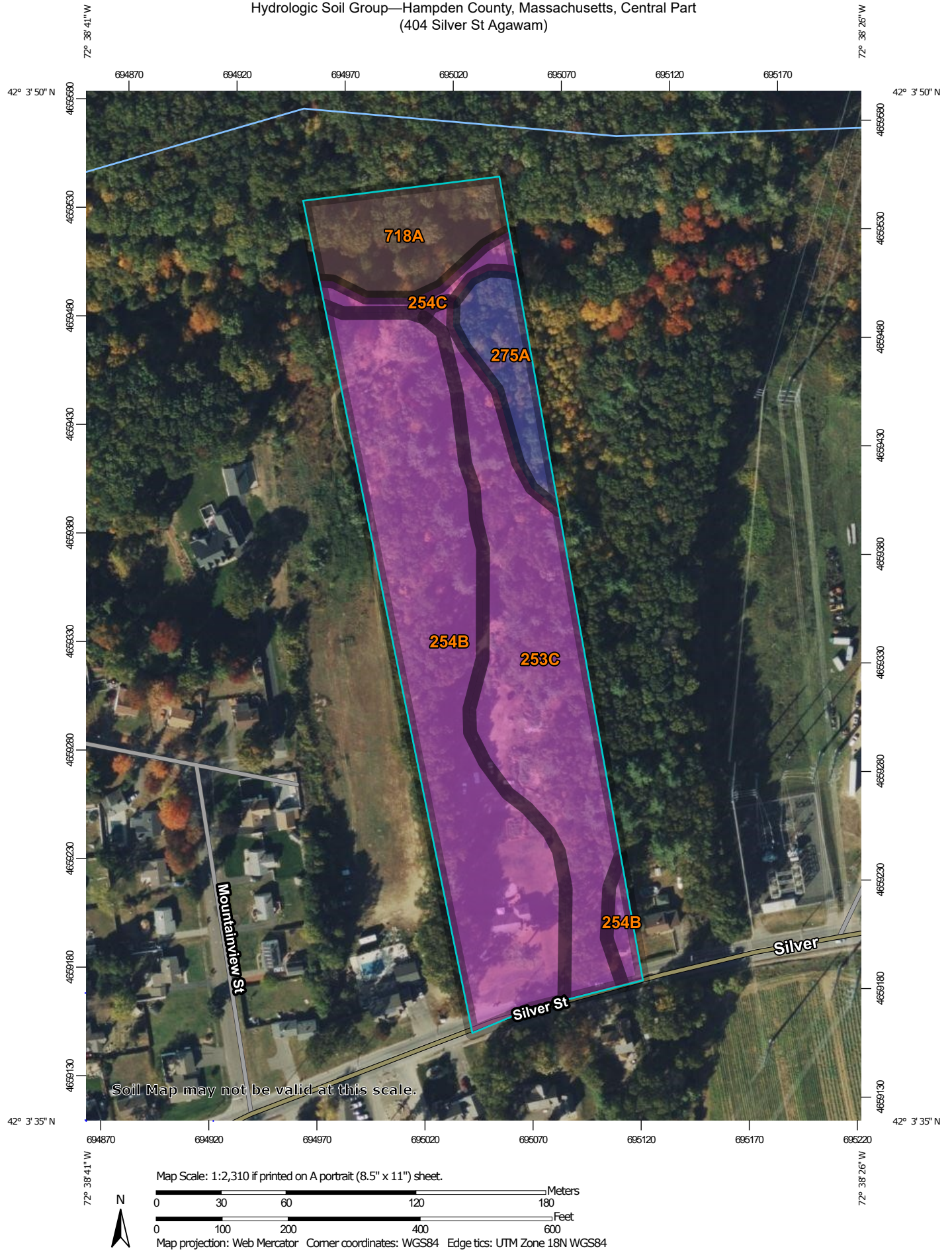
— Site Location

FIGURE 1
404 SILVER STREET
AGAWAM, MASSACHUSETTS
SILVER STREET ENERGY STORAGE, LLC
LOCUS MAP



Attachment B - NRCS Web Soil Survey Maps & Reports:
Hydrologic Soils Group, Depth to Water Table, Depth to Bedrock,
FEMA FIRMette,
NOAA Atlas 14 Rainfall Data

Hydrologic Soil Group—Hampden County, Massachusetts, Central Part
(404 Silver St Agawam)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points

 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hampden County, Massachusetts, Central Part
Survey Area Data: Version 17, Sep 10, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 15, 2020—Oct 31, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
253C	Hinckley loamy sand, 8 to 15 percent slopes	A	2.6	31.6%
254B	Merrimac fine sandy loam, 3 to 8 percent slopes	A	3.9	47.3%
254C	Merrimac fine sandy loam, 8 to 15 percent slopes	A	0.2	2.8%
275A	Agawam fine sandy loam, 0 to 3 percent slopes	B	0.6	6.8%
718A	Saco Variant silt loam, frequently ponded, 0 to 2 percent slopes, frequently flooded	B/D	0.9	11.5%
Totals for Area of Interest			8.2	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

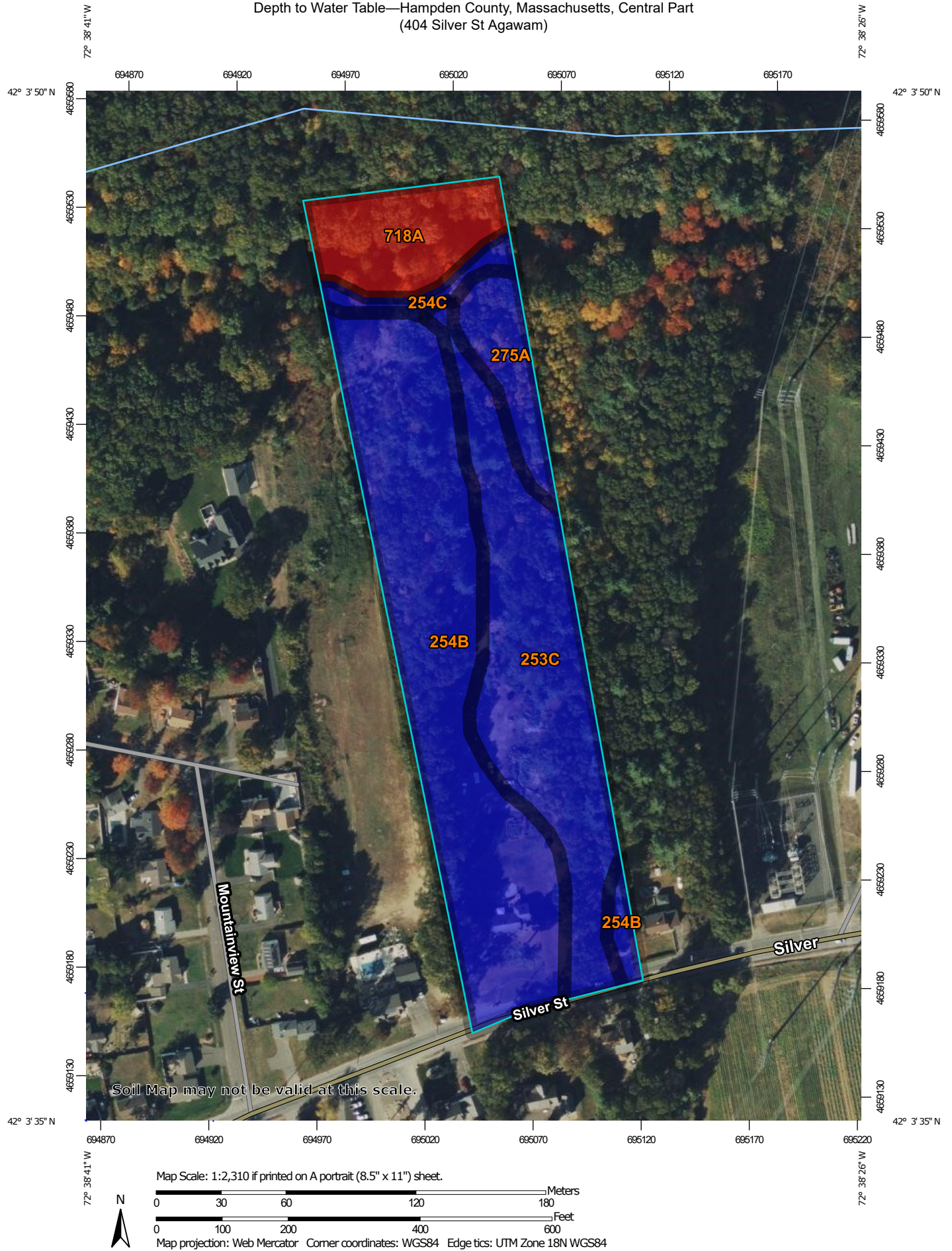
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Depth to Water Table—Hampden County, Massachusetts, Central Part
(404 Silver St Agawam)



Soil Map may not be valid at this scale.



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200
-  Not rated or not available

Soil Rating Lines

-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200
-  Not rated or not available

Soil Rating Points

-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200

 Not rated or not available

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

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Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Survey Area Data: Version 17, Sep 10, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 15, 2020—Oct 31, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
253C	Hinckley loamy sand, 8 to 15 percent slopes	>200	2.6	31.6%
254B	Merrimac fine sandy loam, 3 to 8 percent slopes	>200	3.9	47.3%
254C	Merrimac fine sandy loam, 8 to 15 percent slopes	>200	0.2	2.8%
275A	Agawam fine sandy loam, 0 to 3 percent slopes	>200	0.6	6.8%
718A	Saco Variant silt loam, frequently ponded, 0 to 2 percent slopes, frequently flooded	0	0.9	11.5%
Totals for Area of Interest			8.2	100.0%

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

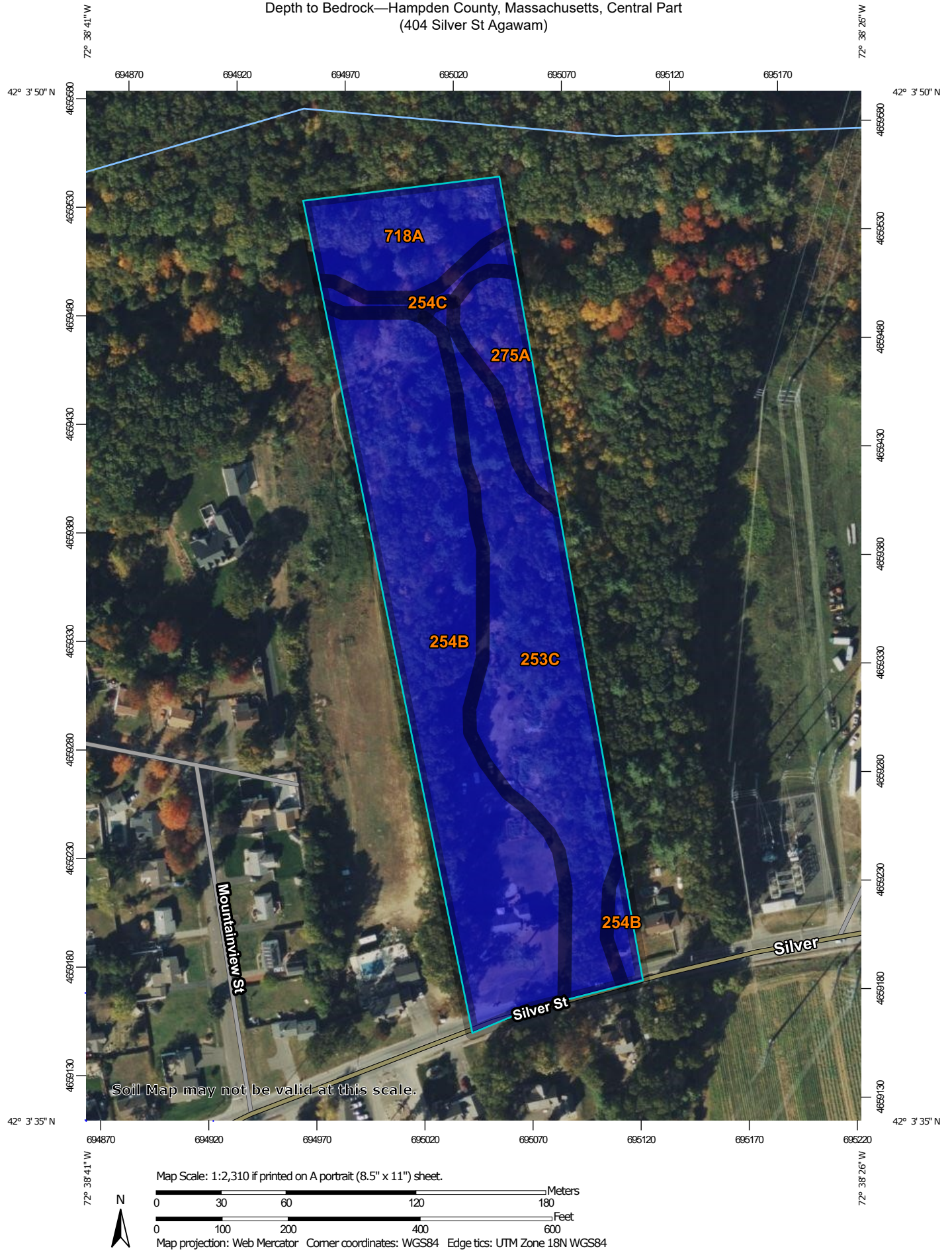
Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

Depth to Bedrock—Hampden County, Massachusetts, Central Part
(404 Silver St Agawam)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200
-  Not rated or not available

Soil Rating Lines

-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200
-  Not rated or not available

Soil Rating Points

-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200

 Not rated or not available

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

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Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

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Survey Area Data: Version 17, Sep 10, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 15, 2020—Oct 31, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Depth to Bedrock

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
253C	Hinckley loamy sand, 8 to 15 percent slopes	>200	2.6	31.6%
254B	Merrimac fine sandy loam, 3 to 8 percent slopes	>200	3.9	47.3%
254C	Merrimac fine sandy loam, 8 to 15 percent slopes	>200	0.2	2.8%
275A	Agawam fine sandy loam, 0 to 3 percent slopes	>200	0.6	6.8%
718A	Saco Variant silt loam, frequently ponded, 0 to 2 percent slopes, frequently flooded	>200	0.9	11.5%
Totals for Area of Interest			8.2	100.0%

Description

The term bedrock in soil survey refers to a continuous root and water restrictive layer of rock that occurs within the soil profile.

There are many types of restrictions that can occur within the soil profile but this theme only includes the three restrictions that use the term bedrock. These are:

- 1) Lithic Bedrock
- 2) Paralithic Bedrock
- 3) Densic Bedrock

Lithic bedrock and paralithic bedrock are comprised of igneous, metamorphic, and sedimentary rocks, which are coherent and consolidated into rock through pressure, heat, cementation, or fusion. Lithic bedrock represents the hardest type of bedrock, with a hardness of strongly coherent to indurated. Paralithic bedrock has a hardness of extremely weakly coherent to moderately coherent. It can occur as a thin layer of weathered bedrock above harder lithic bedrock. Paralithic bedrock can also be much thicker, extending well below the soil profile.

Densic bedrock represents a unique kind of bedrock recognized within the soil survey. It is non-coherent and consolidated, dense root restrictive material, formed by pressure, heat, and dewatering of earth materials or sediments. Densic bedrock differs from densic materials, which formed under the compaction of glaciers, mudflows, and or human-caused compaction.

If more than one type of bedrock is described for an individual soil type, the depth to the shallowest one is given. If no bedrock is described in a map unit, it is represented by the "greater than 200" depth class.

Depth to bedrock is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

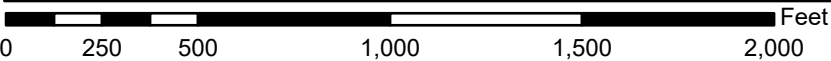
Tie-break Rule: Lower

Interpret Nulls as Zero: No

National Flood Hazard Layer FIRMMette



72°38'52"W 42°3'52"N



1:6,000

72°38'15"W 42°3'25"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
OTHER FEATURES		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature
		Digital Data Available
MAP PANELS		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/21/2024 at 3:06 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sandra Pavlovic, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Orlan Wilhite

NOAA, National Weather Service, Silver Spring, Maryland

[PF_tabular](#) | [PF_graphical](#) | [Maps & aerals](#)

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.340 (0.263-0.438)	0.409 (0.315-0.527)	0.522 (0.401-0.673)	0.615 (0.470-0.800)	0.743 (0.551-1.01)	0.840 (0.611-1.17)	0.941 (0.665-1.36)	1.05 (0.708-1.57)	1.21 (0.784-1.87)	1.34 (0.848-2.12)
10-min	0.482 (0.372-0.620)	0.580 (0.447-0.746)	0.739 (0.568-0.956)	0.871 (0.666-1.13)	1.05 (0.780-1.44)	1.19 (0.865-1.66)	1.33 (0.942-1.93)	1.49 (1.00-2.22)	1.72 (1.11-2.65)	1.90 (1.20-3.00)
15-min	0.567 (0.438-0.730)	0.682 (0.526-0.878)	0.870 (0.668-1.12)	1.02 (0.783-1.33)	1.24 (0.918-1.69)	1.40 (1.02-1.95)	1.57 (1.11-2.27)	1.76 (1.18-2.61)	2.02 (1.31-3.12)	2.23 (1.41-3.53)
30-min	0.766 (0.591-0.985)	0.923 (0.712-1.19)	1.18 (0.906-1.52)	1.39 (1.06-1.81)	1.68 (1.25-2.30)	1.91 (1.38-2.66)	2.14 (1.51-3.09)	2.39 (1.60-3.56)	2.75 (1.78-4.25)	3.04 (1.93-4.81)
60-min	0.965 (0.745-1.24)	1.16 (0.897-1.50)	1.49 (1.14-1.92)	1.76 (1.34-2.29)	2.13 (1.58-2.90)	2.41 (1.75-3.36)	2.70 (1.91-3.92)	3.03 (2.03-4.51)	3.48 (2.25-5.38)	3.85 (2.44-6.09)
2-hr	1.24 (0.960-1.58)	1.48 (1.15-1.90)	1.89 (1.46-2.43)	2.22 (1.71-2.88)	2.69 (2.01-3.65)	3.03 (2.22-4.22)	3.40 (2.43-4.94)	3.83 (2.58-5.68)	4.47 (2.90-6.88)	5.00 (3.18-7.87)
3-hr	1.42 (1.11-1.81)	1.71 (1.33-2.17)	2.17 (1.69-2.78)	2.56 (1.98-3.30)	3.10 (2.32-4.20)	3.50 (2.58-4.86)	3.92 (2.82-5.71)	4.44 (3.00-6.56)	5.23 (3.40-8.02)	5.90 (3.75-9.25)
6-hr	1.78 (1.39-2.24)	2.16 (1.69-2.73)	2.78 (2.17-3.53)	3.30 (2.56-4.22)	4.01 (3.03-5.42)	4.53 (3.37-6.29)	5.10 (3.71-7.44)	5.82 (3.95-8.57)	6.95 (4.54-10.6)	7.94 (5.06-12.4)
12-hr	2.17 (1.72-2.73)	2.69 (2.12-3.38)	3.53 (2.78-4.46)	4.23 (3.31-5.37)	5.19 (3.95-6.99)	5.89 (4.41-8.16)	6.67 (4.89-9.72)	7.67 (5.22-11.2)	9.26 (6.06-14.1)	10.7 (6.83-16.6)
24-hr	2.55 (2.03-3.18)	3.21 (2.55-4.00)	4.28 (3.39-5.37)	5.17 (4.07-6.53)	6.40 (4.91-8.59)	7.29 (5.50-10.1)	8.29 (6.13-12.1)	9.60 (6.55-14.0)	11.7 (7.69-17.7)	13.6 (8.73-21.0)
2-day	2.89 (2.31-3.58)	3.67 (2.94-4.55)	4.95 (3.94-6.16)	6.01 (4.76-7.53)	7.46 (5.76-9.98)	8.52 (6.48-11.7)	9.71 (7.25-14.1)	11.3 (7.74-16.4)	13.9 (9.18-21.0)	16.3 (10.5-25.1)
3-day	3.16 (2.54-3.90)	4.01 (3.22-4.96)	5.41 (4.33-6.71)	6.56 (5.22-8.20)	8.16 (6.33-10.9)	9.31 (7.10-12.8)	10.6 (7.95-15.4)	12.4 (8.49-17.9)	15.3 (10.1-23.0)	17.9 (11.6-27.5)
4-day	3.40 (2.74-4.18)	4.31 (3.47-5.31)	5.80 (4.65-7.17)	7.03 (5.61-8.75)	8.73 (6.79-11.6)	9.96 (7.62-13.7)	11.4 (8.52-16.4)	13.2 (9.09-19.1)	16.3 (10.8-24.5)	19.1 (12.4-29.3)
7-day	4.07 (3.30-4.98)	5.10 (4.13-6.24)	6.78 (5.46-8.33)	8.17 (6.55-10.1)	10.1 (7.87-13.3)	11.5 (8.80-15.6)	13.0 (9.80-18.7)	15.1 (10.4-21.7)	18.5 (12.3-27.7)	21.6 (14.0-32.9)
10-day	4.73 (3.85-5.77)	5.82 (4.73-7.10)	7.60 (6.15-9.31)	9.08 (7.30-11.2)	11.1 (8.68-14.6)	12.6 (9.66-17.0)	14.2 (10.7-20.3)	16.4 (11.3-23.5)	19.9 (13.2-29.6)	23.0 (14.9-35.0)
20-day	6.81 (5.58-8.24)	7.96 (6.51-9.64)	9.84 (8.01-12.0)	11.4 (9.22-14.0)	13.5 (10.6-17.5)	15.1 (11.6-20.1)	16.8 (12.6-23.5)	19.0 (13.2-26.9)	22.2 (14.8-32.9)	25.1 (16.3-37.9)
30-day	8.56 (7.04-10.3)	9.73 (7.99-11.7)	11.7 (9.53-14.1)	13.2 (10.8-16.2)	15.4 (12.1-19.8)	17.1 (13.1-22.5)	18.8 (14.0-25.9)	20.8 (14.6-29.4)	23.8 (15.9-35.0)	26.2 (17.1-39.6)
45-day	10.7 (8.86-12.9)	12.0 (9.85-14.4)	13.9 (11.4-16.8)	15.6 (12.7-19.0)	17.9 (14.0-22.7)	19.6 (15.0-25.5)	21.4 (15.8-28.9)	23.2 (16.3-32.7)	25.8 (17.3-37.8)	27.8 (18.1-41.8)
60-day	12.6 (10.4-15.0)	13.8 (11.4-16.6)	15.9 (13.1-19.1)	17.6 (14.4-21.4)	20.0 (15.7-25.2)	21.8 (16.7-28.2)	23.6 (17.4-31.6)	25.4 (17.9-35.6)	27.6 (18.6-40.3)	29.2 (19.1-43.8)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

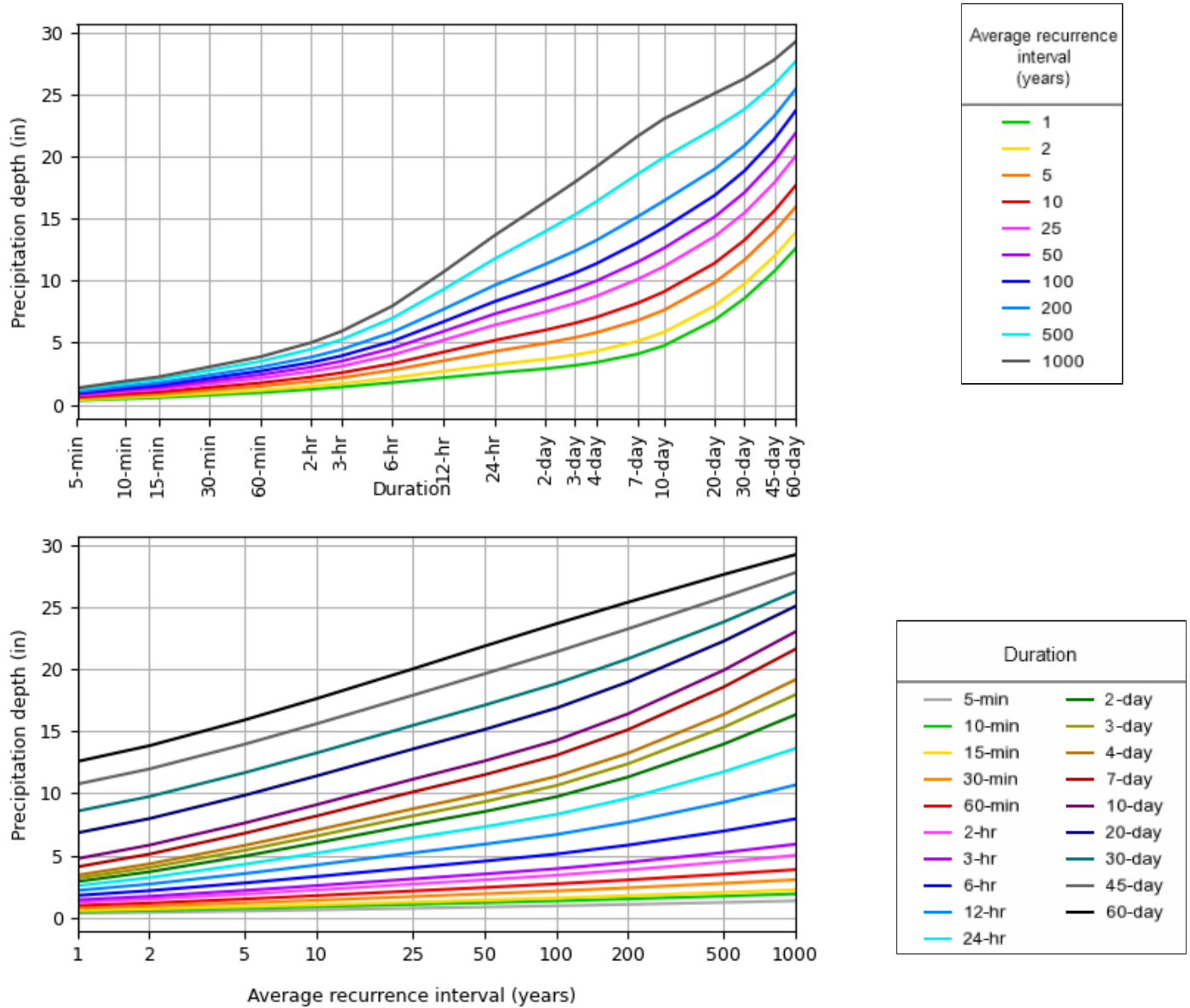
Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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PF graphical

PDS-based depth-duration-frequency (DDF) curves
Latitude: 42.0607°, Longitude: -72.6426°



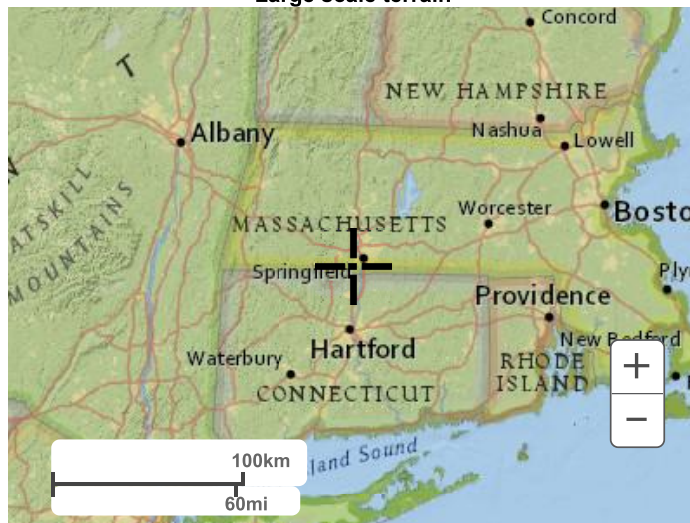
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Maps & aerials

Small scale terrain



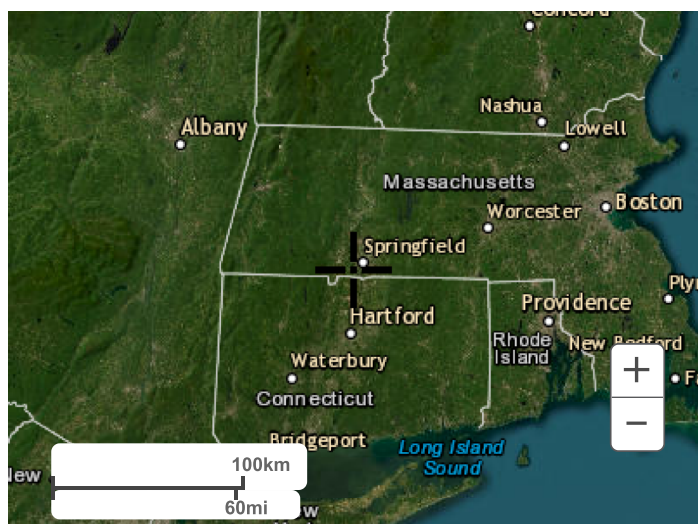
Large scale terrain



Large scale map



Large scale aerial

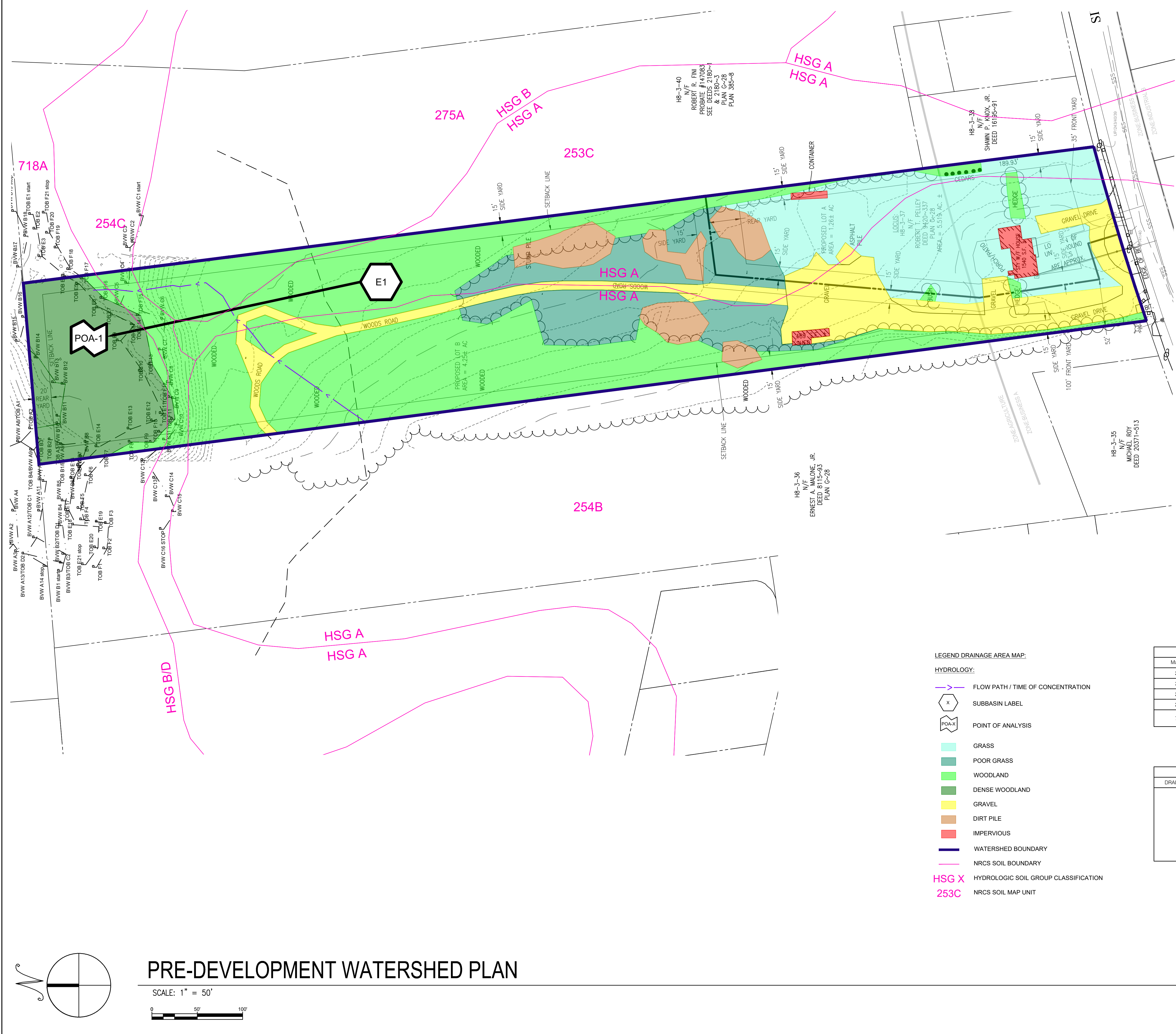


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[National Weather Service](#)
[National Water Center](#)
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

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Attachment C - Hydrologic Maps & HydroCAD Reports



LEGEND

ROAD (GRAVEL)

FENCE LINE

PROPERTY LINE

FLOW DIRECTION

BANK LINE/FLAG

WETLAND LINE/FLAG

(E) MAJOR CONTOUR

(E) MINOR CONTOUR

PROPOSED MAJOR CONTOUR

PROPOSED MINOR CONTOUR

WTB WETLAND BUFFER ZONE

RFA RIVERFRONT AREA

FHA 100-YEAR FLOOD HAZARD AREA

TREELINE

SF SILT FENCE

SILT SOCK

STM STORM PIPE

E ELECTRICAL TRENCH

E OVERHEAD ELECTRIC

SAN SAN SEWER LINE

W W WATER LINE

G G GAS MAIN

23-23A ASSESSORS MAP-LOT

SIGN

UTILITY POLE (WITH GUY ANCHOR)

HYDRANT

WATER VALVE

INDIVIDUAL TREE

PROPERTY MARKERS

NOTE: ITALIC FONTS INDICATE EXISTING CONDITIONS.
STANDARD FONTS INDICATE PROPOSED CONDITIONS.

LEGEND DRAINAGE AREA MAP:

HYDROLOGY:

FLOW PATH / TIME OF CONCENTRATION

SUBBASIN LABEL

POINT OF ANALYSIS

GRASS

POOR GRASS

WOODLAND

DENSE WOODLAND

GRAVEL

DIRT PILE

IMPERVIOUS

WATERSHED BOUNDARY

NRCS SOIL BOUNDARY

HSG X HYDROLOGIC SOIL GROUP CLASSIFICATION

253C NRCS SOIL MAP UNIT

Soil Data		
Map Unit	Map Unit Name	HSG Rating
253C	Hinckley loamy sand, 8 to 15 percent slopes	A
254B	Merrimac fine sandy loam, 3 to 8 percent slopes	A
254C	Merrimac fine sandy loam, 8 to 15 percent slopes	A
275A	Agawam fine sandy loam, 0 to 3 percent slopes	B
718A	Saco Variant silt loam, frequently ponded, 0 to 2 percent slopes, frequently flooded	B/D

PRE-DEVELOPMENT TO LIST				
DRAINAGE AREA	FLOW TYPE	GROUND COVER	LENGTH (FT)	SLOPE
E1	SHEET	WOODS: LIGHT UNDERBRUSH	50	9.22%
	SCF	WOODLAND	67	6.51%
	SCF	UNPAVED	15	0.89%
	SCF	WOODLAND	37	4.99%
	SCF	UNPAVED	12	7.76%
	SCF	WOODLAND	55	1.97%
	SCF	WOODLAND	125	16.26%

55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851
PHONE: (978) 818-5349
FAX: (978) 818-5349
WWW.NEWLEAFENERGY.COM

NOT FOR CONSTRUCTION

WESTON & SAMPSON ENGINEERS, INC.
55 WALKERS BROOK DRIVE, SUITE 100
ROCKINGHAM, MA 01970
978.532.1900 800.SAMPSON
WWW.WESTONSAMPSON.COM

SITE USE PERMIT SET
404 SILVER ST
AGAWAM, MA 01001

PROJECT NUMBER:
120-0339

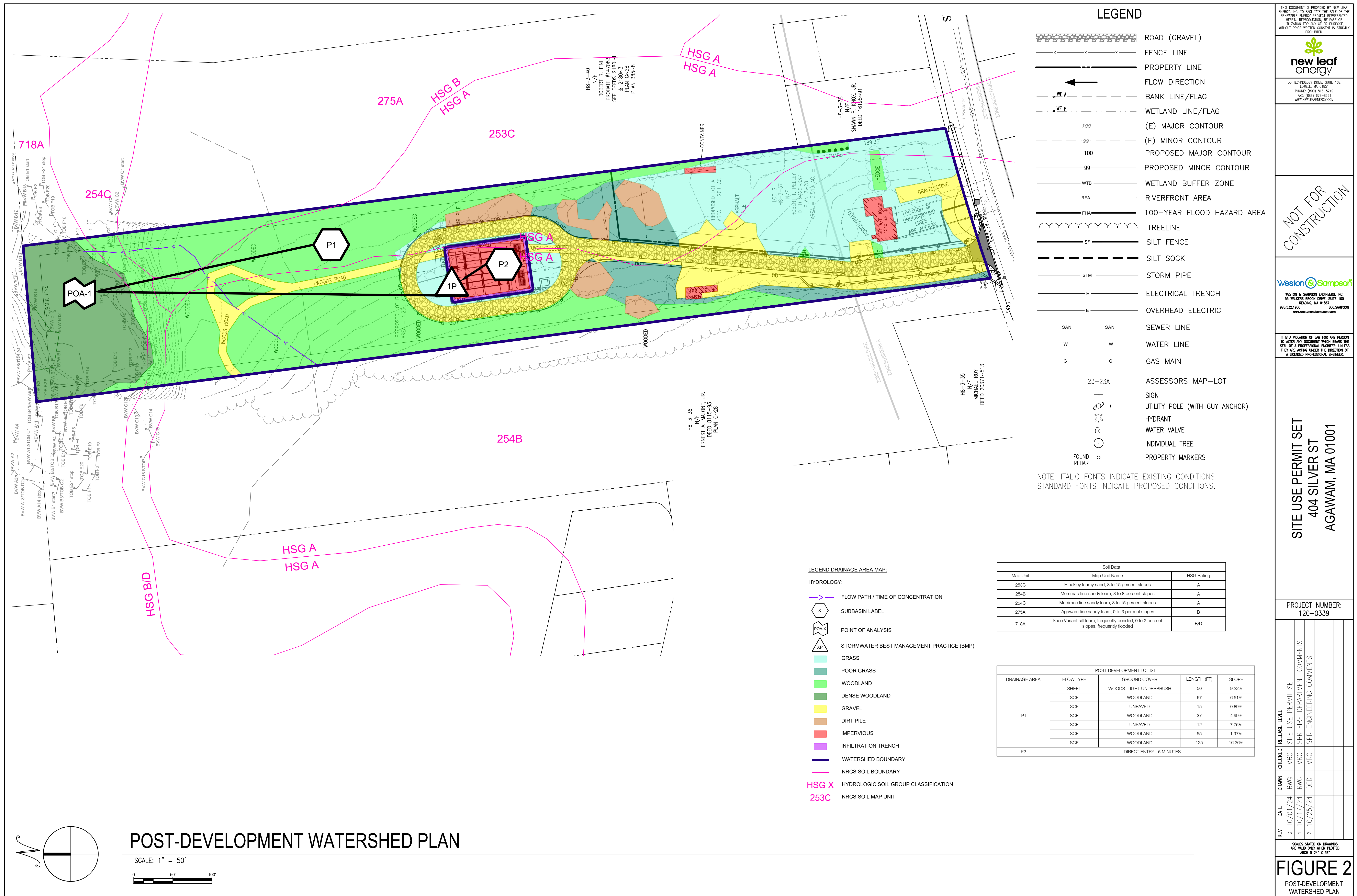
REV	DATE	DRAWN	CHECKED	RELEASE LEVEL	RELEASE LEVEL
0	10/01/24	RWG	MRC	SITE USE PERMIT SET	
1	10/17/24	RWG	MRC	SPR FIRE DEPARTMENT COMMENTS	
2	10/25/24	DED	MRC	SPR ENGINEERING COMMENTS	

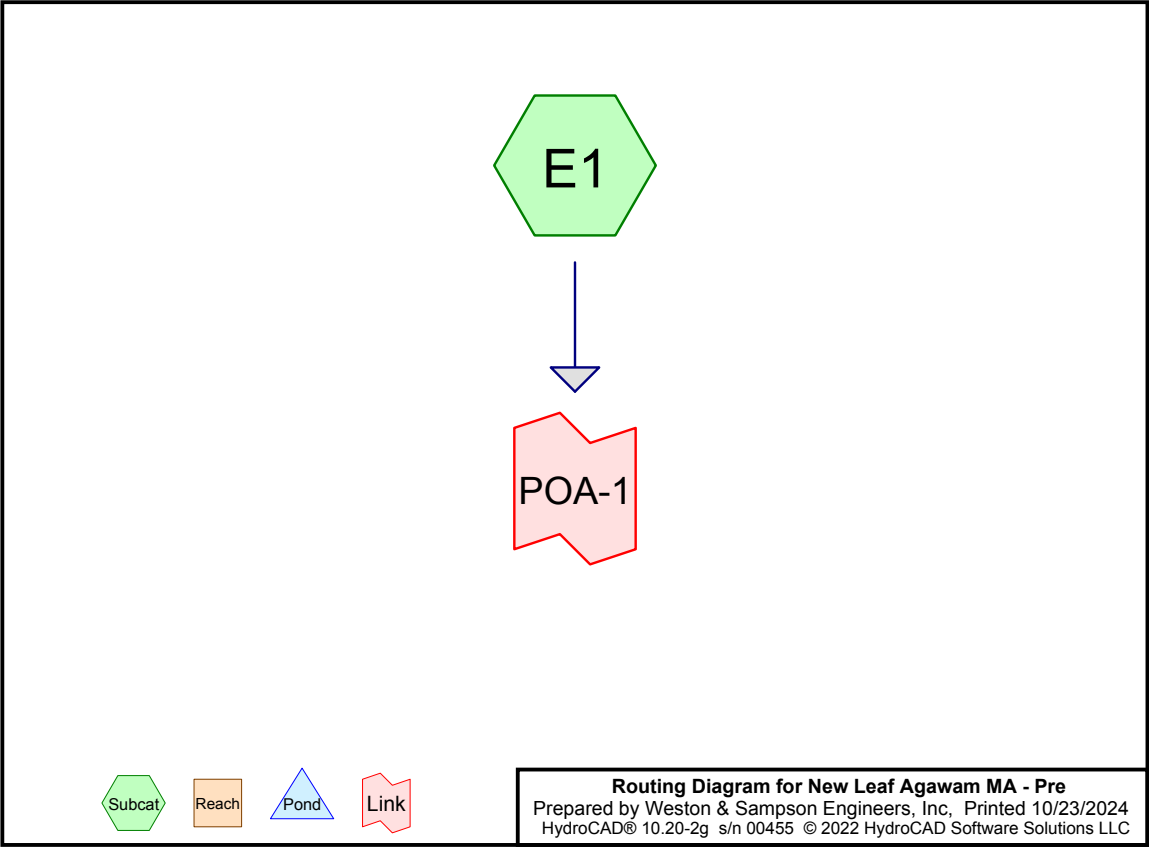
SCALES STATED ON DRAWINGS
ARE VALID ONLY WHEN PLOTTED
ARCH D 24" X 36"

FIGURE 1

PRE-DEVELOPMENT
WATERSHED PLAN

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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-yr	Type III 24-hr		Default	24.00	1	3.21	2
2	10-yr	Type III 24-hr		Default	24.00	1	5.17	2
3	100-yr	Type III 24-hr		Default	24.00	1	8.29	2

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.960	49	50-75% Grass cover, Fair, HSG A (E1)
0.579	68	<50% Grass cover, Poor, HSG A (E1)
0.263	77	Fallow, bare soil, HSG A (E1)
0.758	76	Gravel roads, HSG A (E1)
0.054	98	Unconnected pavement, HSG A (E1)
2.087	36	Woods, Fair, HSG A (E1)
0.246	60	Woods, Fair, HSG B (E1)
0.008	30	Woods, Good, HSG A (E1)
0.047	55	Woods, Good, HSG B (E1)
0.518	77	Woods, Good, HSG D (E1)
5.519	55	TOTAL AREA

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Type III 24-hr 2-yr Rainfall=3.21"

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Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentE1:

Runoff Area=240,415 sf 0.97% Impervious Runoff Depth=0.25"
Flow Length=361' Tc=10.6 min CN=55 Runoff=0.56 cfs 0.117 af

Link POA-1:

Inflow=0.56 cfs 0.117 af
Primary=0.56 cfs 0.117 af

Total Runoff Area = 5.519 ac Runoff Volume = 0.117 af Average Runoff Depth = 0.25"
99.03% Pervious = 5.466 ac 0.97% Impervious = 0.054 ac

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Type III 24-hr 2-yr Rainfall=3.21"

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Summary for Subcatchment E1:

Runoff = 0.56 cfs @ 12.40 hrs, Volume= 0.117 af, Depth= 0.25"
 Routed to Link POA-1 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2-yr Rainfall=3.21"

Area (sf)	CN	Description
33,033	76	Gravel roads, HSG A
11,450	77	Fallow, bare soil, HSG A
41,811	49	50-75% Grass cover, Fair, HSG A
25,220	68	<50% Grass cover, Poor, HSG A
90,915	36	Woods, Fair, HSG A
337	30	Woods, Good, HSG A
2,333	98	Unconnected pavement, HSG A
10,723	60	Woods, Fair, HSG B
2,033	55	Woods, Good, HSG B
22,560	77	Woods, Good, HSG D
240,415	55	Weighted Average
238,082		99.03% Pervious Area
2,333		0.97% Impervious Area
2,333		100.00% Unconnected

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Type III 24-hr 2-yr Rainfall=3.21"

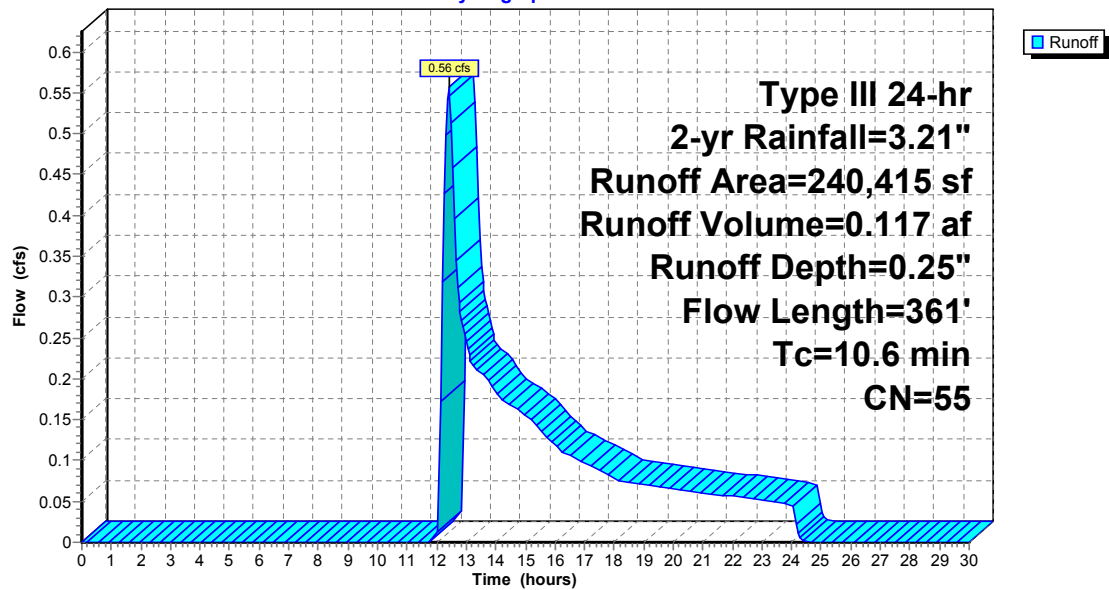
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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	50	0.0922	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.21"
0.9	67	0.0651	1.28		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.1	15	0.0651	4.11		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.6	37	0.0499	1.12		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.0	12	0.0776	4.48		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.3	55	0.0197	0.70		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.0	125	0.1626	2.02		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
10.6	361	Total			

Subcatchment E1:

Hydrograph



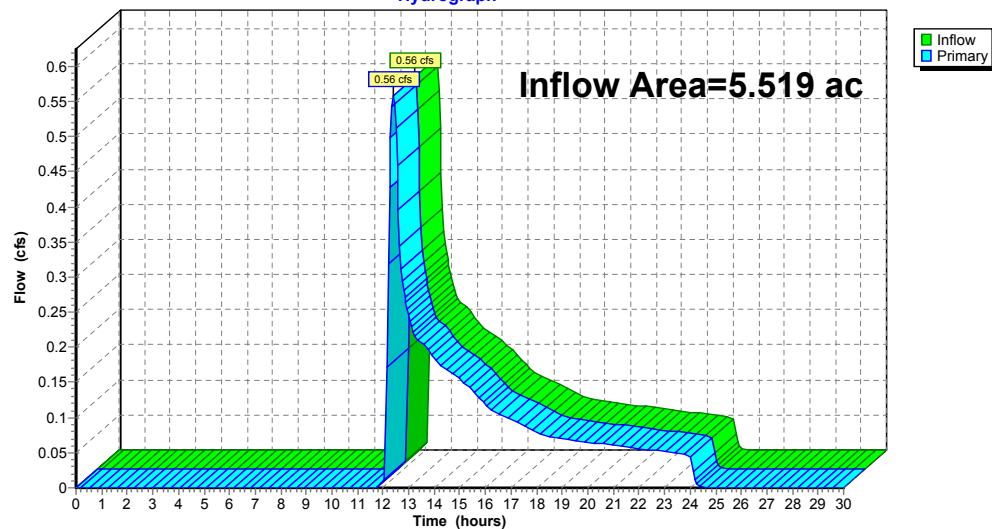
Summary for Link POA-1:

Inflow Area = 5.519 ac, 0.97% Impervious, Inflow Depth = 0.25" for 2-yr event
 Inflow = 0.56 cfs @ 12.40 hrs, Volume= 0.117 af
 Primary = 0.56 cfs @ 12.40 hrs, Volume= 0.117 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link POA-1:

Hydrograph



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Type III 24-hr 10-yr Rainfall=5.17"

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Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentE1:

Runoff Area=240,415 sf 0.97% Impervious Runoff Depth=1.07"
Flow Length=361' Tc=10.6 min CN=55 Runoff=4.70 cfs 0.490 af

Link POA-1:

Inflow=4.70 cfs 0.490 af
Primary=4.70 cfs 0.490 af

Total Runoff Area = 5.519 ac Runoff Volume = 0.490 af Average Runoff Depth = 1.07"
99.03% Pervious = 5.466 ac 0.97% Impervious = 0.054 ac

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Type III 24-hr 10-yr Rainfall=5.17"

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Summary for Subcatchment E1:

Runoff = 4.70 cfs @ 12.18 hrs, Volume= 0.490 af, Depth= 1.07"
Routed to Link POA-1 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=5.17"

Area (sf)	CN	Description
33,033	76	Gravel roads, HSG A
11,450	77	Fallow, bare soil, HSG A
41,811	49	50-75% Grass cover, Fair, HSG A
25,220	68	<50% Grass cover, Poor, HSG A
90,915	36	Woods, Fair, HSG A
337	30	Woods, Good, HSG A
2,333	98	Unconnected pavement, HSG A
10,723	60	Woods, Fair, HSG B
2,033	55	Woods, Good, HSG B
22,560	77	Woods, Good, HSG D
240,415	55	Weighted Average
238,082		99.03% Pervious Area
2,333		0.97% Impervious Area
2,333		100.00% Unconnected

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Type III 24-hr 10-yr Rainfall=5.17"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	50	0.0922	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.21"
0.9	67	0.0651	1.28		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.1	15	0.0651	4.11		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.6	37	0.0499	1.12		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.0	12	0.0776	4.48		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.3	55	0.0197	0.70		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.0	125	0.1626	2.02		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
10.6	361	Total			

New Leaf Agawam MA - Pre

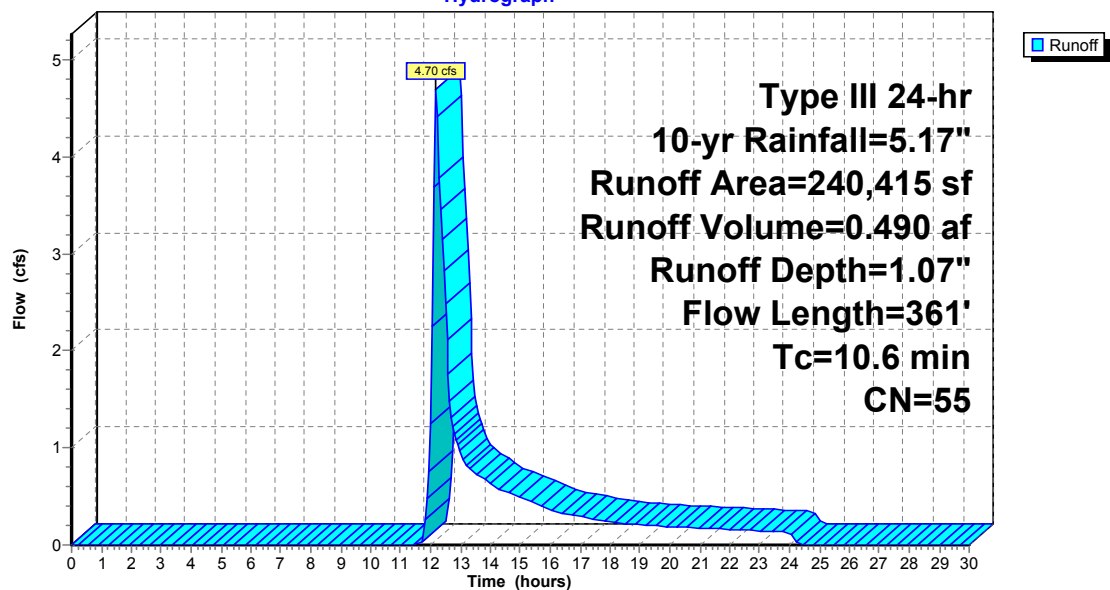
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Type III 24-hr 10-yr Rainfall=5.17"

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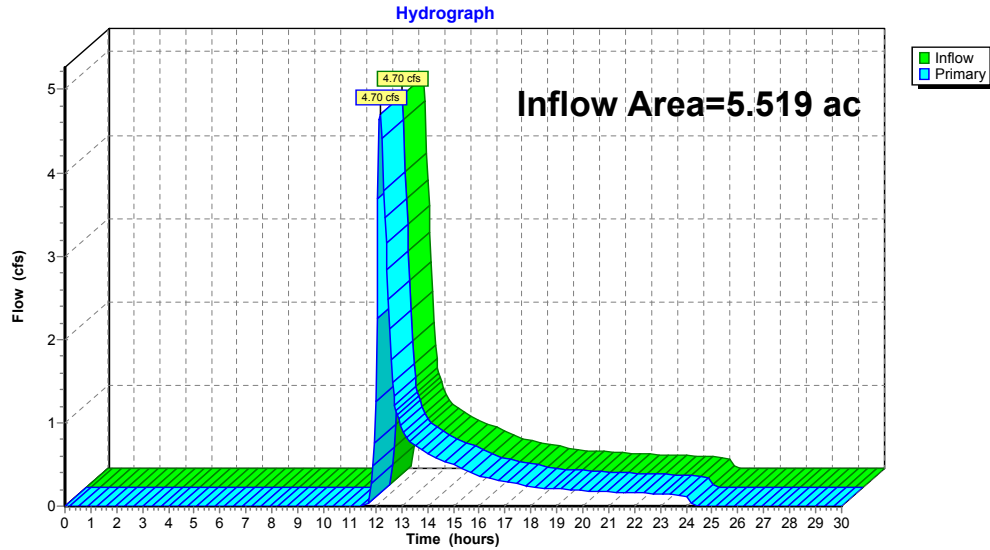
Subcatchment E1:**Hydrograph**

Summary for Link POA-1:

Inflow Area = 5.519 ac, 0.97% Impervious, Inflow Depth = 1.07" for 10-yr event
Inflow = 4.70 cfs @ 12.18 hrs, Volume= 0.490 af
Primary = 4.70 cfs @ 12.18 hrs, Volume= 0.490 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link POA-1:



Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentE1:

Runoff Area=240,415 sf 0.97% Impervious Runoff Depth=2.98"
Flow Length=361' Tc=10.6 min CN=55 Runoff=15.80 cfs 1.372 af

Link POA-1:

Inflow=15.80 cfs 1.372 af
Primary=15.80 cfs 1.372 af

Total Runoff Area = 5.519 ac Runoff Volume = 1.372 af Average Runoff Depth = 2.98"
99.03% Pervious = 5.466 ac 0.97% Impervious = 0.054 ac

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Type III 24-hr 100-yr Rainfall=8.29"

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Summary for Subcatchment E1:

Runoff = 15.80 cfs @ 12.16 hrs, Volume= 1.372 af, Depth= 2.98"
 Routed to Link POA-1 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100-yr Rainfall=8.29"

Area (sf)	CN	Description
33,033	76	Gravel roads, HSG A
11,450	77	Fallow, bare soil, HSG A
41,811	49	50-75% Grass cover, Fair, HSG A
25,220	68	<50% Grass cover, Poor, HSG A
90,915	36	Woods, Fair, HSG A
337	30	Woods, Good, HSG A
2,333	98	Unconnected pavement, HSG A
10,723	60	Woods, Fair, HSG B
2,033	55	Woods, Good, HSG B
22,560	77	Woods, Good, HSG D
240,415	55	Weighted Average
238,082		99.03% Pervious Area
2,333		0.97% Impervious Area
2,333		100.00% Unconnected

New Leaf Agawam MA - Pre

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Type III 24-hr 100-yr Rainfall=8.29"

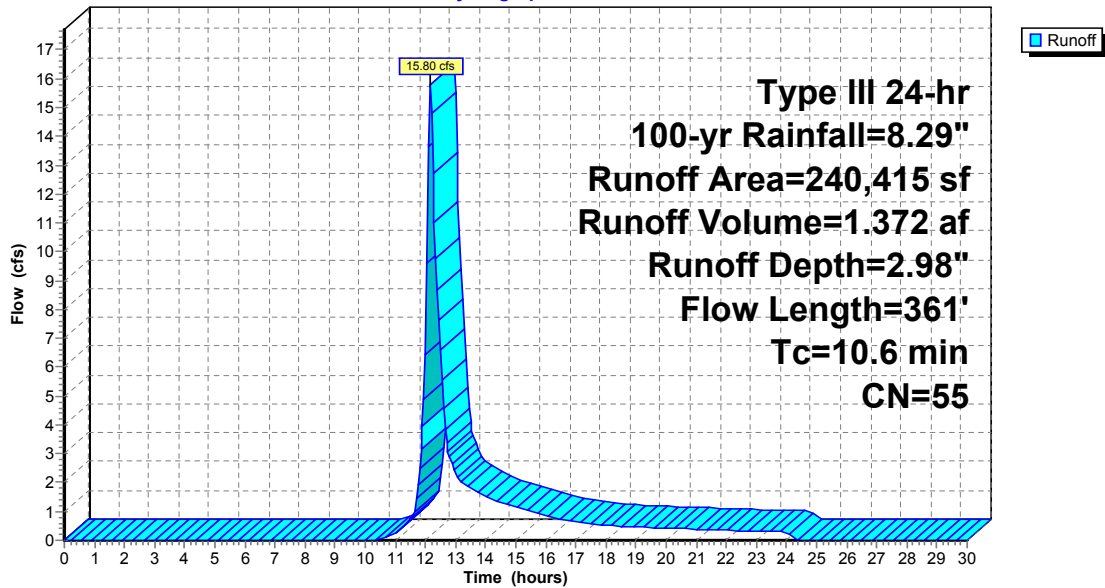
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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	50	0.0922	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.21"
0.9	67	0.0651	1.28		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.1	15	0.0651	4.11		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.6	37	0.0499	1.12		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.0	12	0.0776	4.48		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.3	55	0.0197	0.70		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.0	125	0.1626	2.02		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
10.6	361	Total			

Subcatchment E1:

Hydrograph



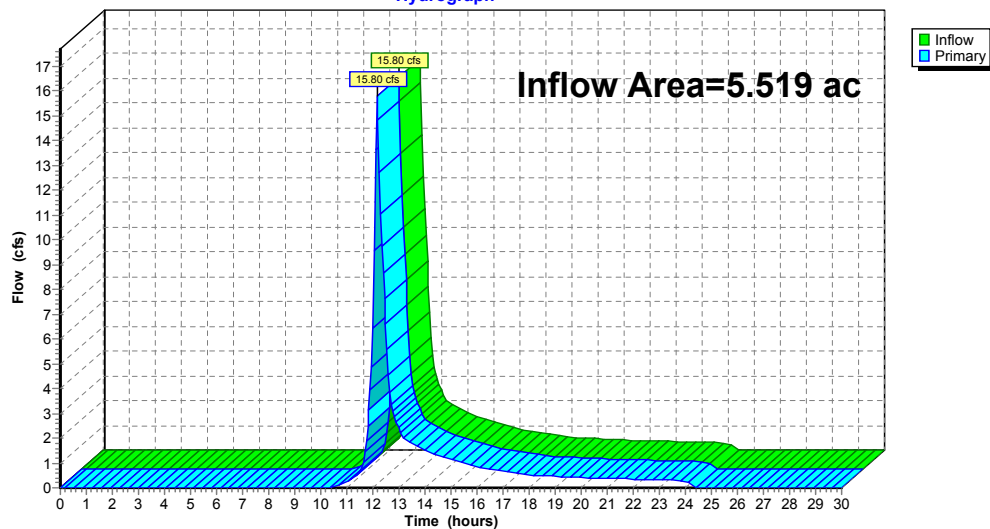
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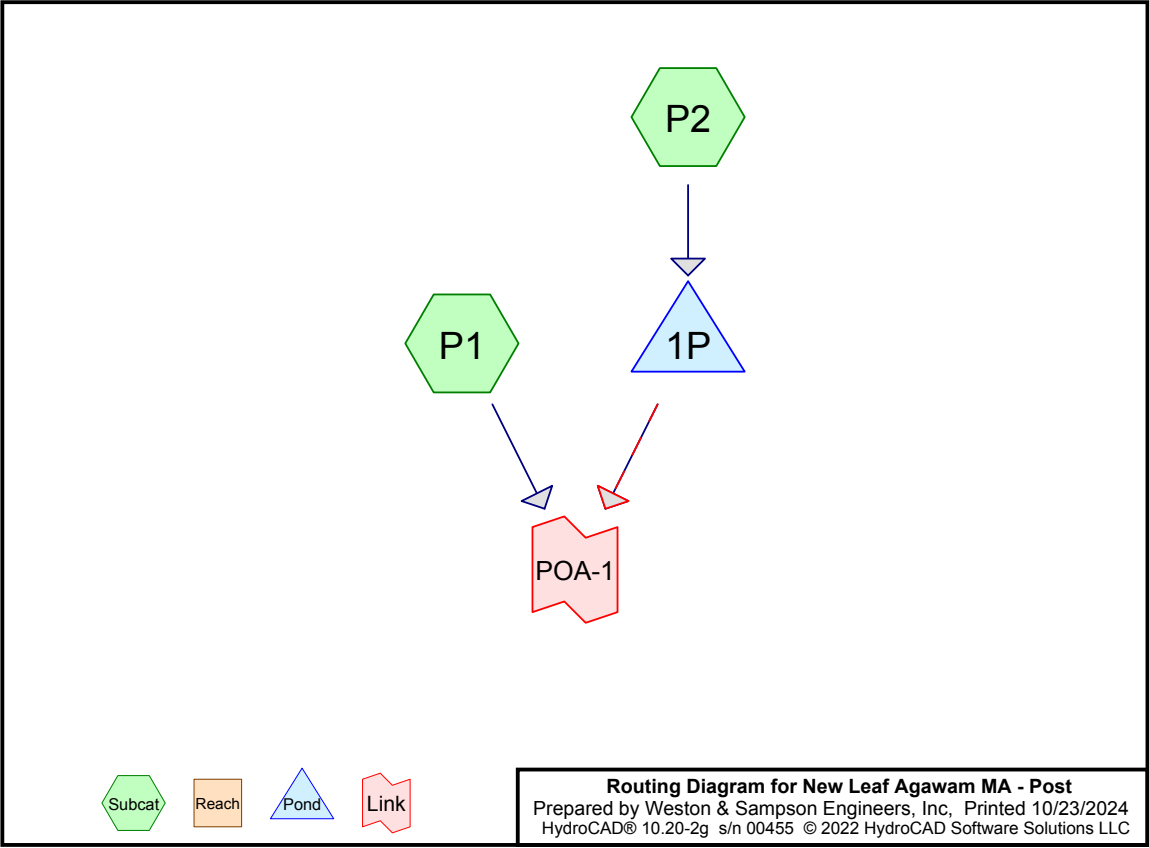
Inflow Area = 5.519 ac, 0.97% Impervious, Inflow Depth = 2.98" for 100-yr event
 Inflow = 15.80 cfs @ 12.16 hrs, Volume= 1.372 af
 Primary = 15.80 cfs @ 12.16 hrs, Volume= 1.372 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link POA-1:

Hydrograph





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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-yr	Type III 24-hr		Default	24.00	1	3.21	2
2	10-yr	Type III 24-hr		Default	24.00	1	5.17	2
3	100-yr	Type III 24-hr		Default	24.00	1	8.29	2

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.082	49	50-75% Grass cover, Fair, HSG A (P1)
0.308	68	<50% Grass cover, Poor, HSG A (P1)
0.220	77	Fallow, bare soil, HSG A (P1)
1.007	76	Gravel roads, HSG A (P1)
0.031	76	Infiltration Trench (P2)
0.195	98	Unconnected pavement, HSG A (P1, P2)
1.859	36	Woods, Fair, HSG A (P1)
0.246	60	Woods, Fair, HSG B (P1)
0.008	30	Woods, Good, HSG A (P1)
0.047	55	Woods, Good, HSG B (P1)
0.518	77	Woods, Good, HSG D (P1)
5.519	57	TOTAL AREA

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Type III 24-hr 2-yr Rainfall=3.21"

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Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentP1: Runoff Area=232,938 sf 1.00% Impervious Runoff Depth=0.25"
Flow Length=361' Tc=10.6 min UI Adjusted CN=55 Runoff=0.54 cfs 0.113 af

SubcatchmentP2: Runoff Area=7,477 sf 82.19% Impervious Runoff Depth=2.55"
Tc=6.0 min CN=94 Runoff=0.48 cfs 0.037 af

Pond 1P: Peak Elev=160.16' Storage=619 cf Inflow=0.48 cfs 0.037 af
Discarded=0.05 cfs 0.037 af Secondary=0.00 cfs 0.000 af Outflow=0.05 cfs 0.037 af

Link POA-1: Inflow=0.54 cfs 0.113 af
Primary=0.54 cfs 0.113 af

Total Runoff Area = 5.519 ac Runoff Volume = 0.150 af Average Runoff Depth = 0.33"
96.47% Pervious = 5.325 ac 3.53% Impervious = 0.195 ac

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Type III 24-hr 2-yr Rainfall=3.21"

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Summary for Subcatchment P1:

Runoff = 0.54 cfs @ 12.40 hrs, Volume= 0.113 af, Depth= 0.25"
Routed to Link POA-1 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=3.21"

Area (sf)	CN	Adj	Description
43,867	76		Gravel roads, HSG A
9,586	77		Fallow, bare soil, HSG A
47,120	49		50-75% Grass cover, Fair, HSG A
13,402	68		<50% Grass cover, Poor, HSG A
80,977	36		Woods, Fair, HSG A
337	30		Woods, Good, HSG A
2,333	98		Unconnected pavement, HSG A
10,723	60		Woods, Fair, HSG B
2,033	55		Woods, Good, HSG B
22,560	77		Woods, Good, HSG D
232,938	56	55	Weighted Average, UI Adjusted
230,605			99.00% Pervious Area
2,333			1.00% Impervious Area
2,333			100.00% Unconnected

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	50	0.0922	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.21"
0.9	67	0.0651	1.28		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.1	15	0.0651	4.11		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.6	37	0.0499	1.12		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.0	12	0.0776	4.48		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.3	55	0.0197	0.70		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.0	125	0.1626	2.02		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
10.6	361	Total			

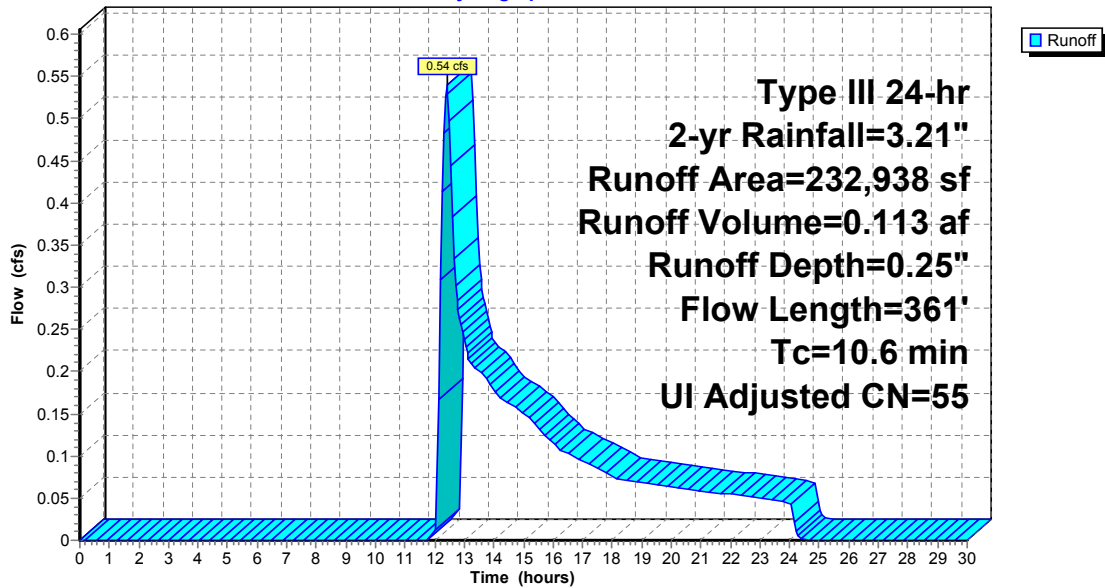
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Subcatchment P1:**Hydrograph****New Leaf Agawam MA - Post**

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Type III 24-hr 2-yr Rainfall=3.21"

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Summary for Subcatchment P2:

Runoff = 0.48 cfs @ 12.09 hrs, Volume= 0.037 af, Depth= 2.55"
Routed to Pond 1P :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 2-yr Rainfall=3.21"

Area (sf)	CN	Description
6,145	98	Unconnected pavement, HSG A
1,332	76	Infiltration Trench
7,477	94	Weighted Average
1,332		17.81% Pervious Area
6,145		82.19% Impervious Area
6,145		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

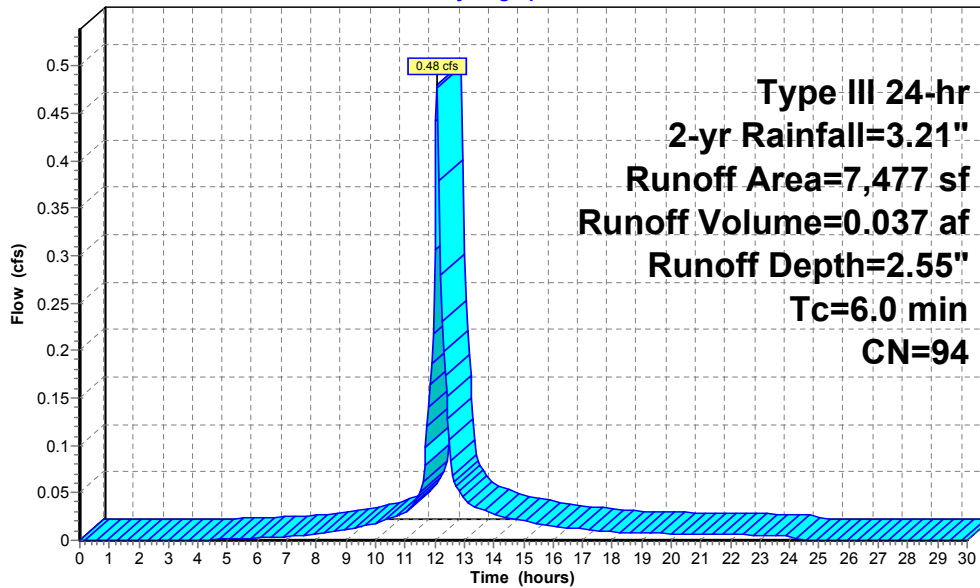
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Subcatchment P2:**Hydrograph****New Leaf Agawam MA - Post**

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Type III 24-hr 2-yr Rainfall=3.21"

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Summary for Pond 1P:

Inflow Area = 0.172 ac, 82.19% Impervious, Inflow Depth = 2.55" for 2-yr event
Inflow = 0.48 cfs @ 12.09 hrs, Volume= 0.037 af
Outflow = 0.05 cfs @ 12.86 hrs, Volume= 0.037 af, Atten= 90%, Lag= 46.5 min
Discarded = 0.05 cfs @ 12.86 hrs, Volume= 0.037 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routed to Link POA-1 :

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 160.16' @ 12.86 hrs Surf.Area= 1,332 sf Storage= 619 cf

Plug-Flow detention time= 109.6 min calculated for 0.036 af (100% of inflow)
Center-of-Mass det. time= 109.4 min (896.4 - 787.0)

Volume	Invert	Avail.Storage	Storage Description
#1	159.00'	1,598 cf	Custom Stage Data (Prismatic) listed below (Recalc) 3,996 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
159.00	1,332	0	0
160.00	1,332	1,332	1,332
161.00	1,332	1,332	2,664
162.00	1,332	1,332	3,996

Device	Routing	Invert	Outlet Devices
#1	Discarded	159.00'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 157.00'
#2	Secondary	161.90'	4.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

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Discarded OutFlow Max=0.05 cfs @ 12.86 hrs HW=160.16' (Free Discharge)

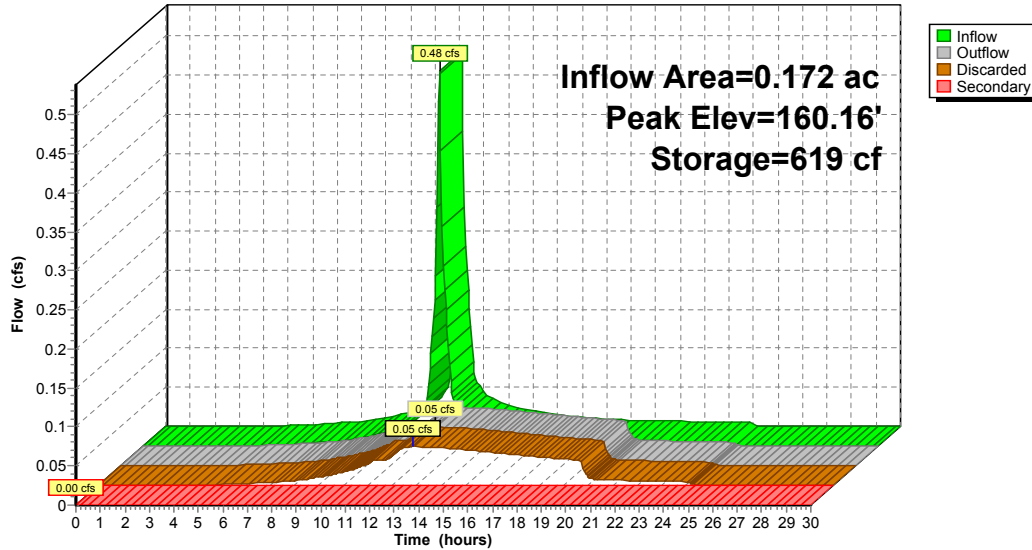
1=Exfiltration (Controls 0.05 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=159.00' (Free Discharge)

2=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond 1P:

Hydrograph



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Stage-Area-Storage for Pond 1P:

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
159.00	1,332	0	160.80	1,332	959
159.05	1,332	27	160.85	1,332	986
159.10	1,332	53	160.90	1,332	1,012
159.15	1,332	80	160.95	1,332	1,039
159.20	1,332	107	161.00	1,332	1,066
159.25	1,332	133	161.05	1,332	1,092
159.30	1,332	160	161.10	1,332	1,119
159.35	1,332	186	161.15	1,332	1,146
159.40	1,332	213	161.20	1,332	1,172
159.45	1,332	240	161.25	1,332	1,199
159.50	1,332	266	161.30	1,332	1,225
159.55	1,332	293	161.35	1,332	1,252
159.60	1,332	320	161.40	1,332	1,279
159.65	1,332	346	161.45	1,332	1,305
159.70	1,332	373	161.50	1,332	1,332
159.75	1,332	400	161.55	1,332	1,359
159.80	1,332	426	161.60	1,332	1,385
159.85	1,332	453	161.65	1,332	1,412
159.90	1,332	480	161.70	1,332	1,439
159.95	1,332	506	161.75	1,332	1,465
160.00	1,332	533	161.80	1,332	1,492
160.05	1,332	559	161.85	1,332	1,518
160.10	1,332	586	161.90	1,332	1,545
160.15	1,332	613	161.95	1,332	1,572
160.20	1,332	639	162.00	1,332	1,598
160.25	1,332	666			
160.30	1,332	693			
160.35	1,332	719			
160.40	1,332	746			
160.45	1,332	773			
160.50	1,332	799			
160.55	1,332	826			
160.60	1,332	852			
160.65	1,332	879			
160.70	1,332	906			
160.75	1,332	932			

Provided retention volume

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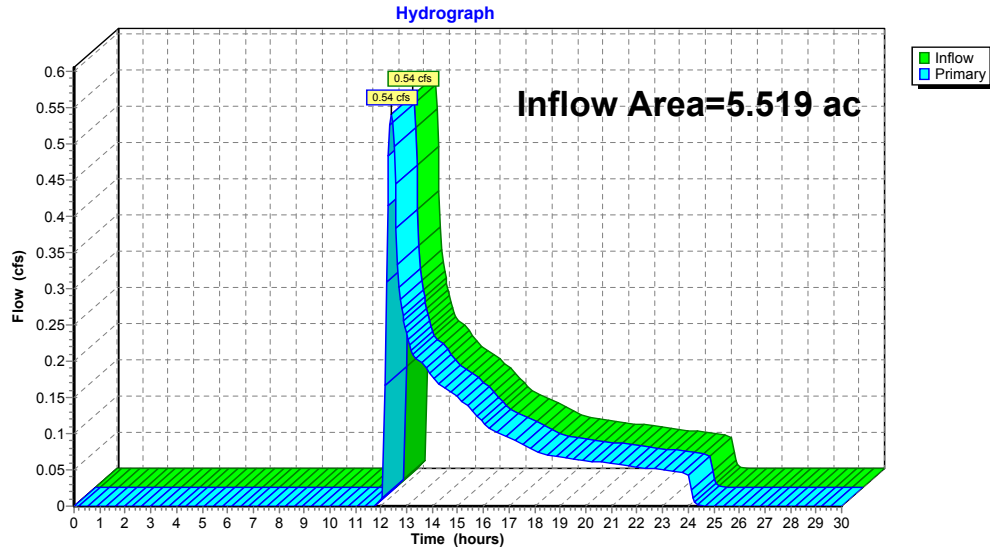
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Summary for Link POA-1:

Inflow Area = 5.519 ac, 3.53% Impervious, Inflow Depth = 0.25" for 2-yr event
Inflow = 0.54 cfs @ 12.40 hrs, Volume= 0.113 af
Primary = 0.54 cfs @ 12.40 hrs, Volume= 0.113 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link POA-1:**New Leaf Agawam MA - Post**

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Type III 24-hr 10-yr Rainfall=5.17"

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Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentP1:

Runoff Area=232,938 sf 1.00% Impervious Runoff Depth=1.07"
Flow Length=361' Tc=10.6 min UI Adjusted CN=55 Runoff=4.55 cfs 0.475 af

SubcatchmentP2:

Runoff Area=7,477 sf 82.19% Impervious Runoff Depth=4.48"
Tc=6.0 min CN=94 Runoff=0.82 cfs 0.064 af

Pond 1P:

Peak Elev=161.30' Storage=1,227 cf Inflow=0.82 cfs 0.064 af
Discarded=0.07 cfs 0.064 af Secondary=0.00 cfs 0.000 af Outflow=0.07 cfs 0.064 af

Link POA-1:

Inflow=4.55 cfs 0.475 af
Primary=4.55 cfs 0.475 af

Total Runoff Area = 5.519 ac Runoff Volume = 0.539 af Average Runoff Depth = 1.17"
96.47% Pervious = 5.325 ac 3.53% Impervious = 0.195 ac

New Leaf Agawam MA - Post

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Summary for Subcatchment P1:

Runoff = 4.55 cfs @ 12.18 hrs, Volume= 0.475 af, Depth= 1.07"
Routed to Link POA-1 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=5.17"

Area (sf)	CN	Adj	Description
43,867	76		Gravel roads, HSG A
9,586	77		Fallow, bare soil, HSG A
47,120	49		50-75% Grass cover, Fair, HSG A
13,402	68		<50% Grass cover, Poor, HSG A
80,977	36		Woods, Fair, HSG A
337	30		Woods, Good, HSG A
2,333	98		Unconnected pavement, HSG A
10,723	60		Woods, Fair, HSG B
2,033	55		Woods, Good, HSG B
22,560	77		Woods, Good, HSG D
232,938	56	55	Weighted Average, UI Adjusted
230,605			99.00% Pervious Area
2,333			1.00% Impervious Area
2,333			100.00% Unconnected

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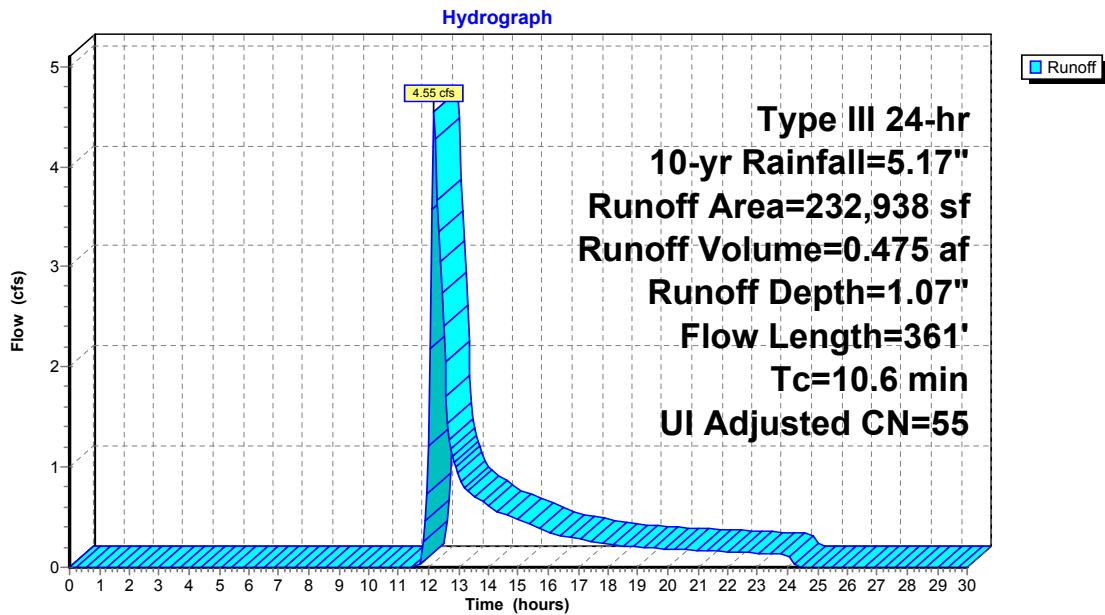
Type III 24-hr 10-yr Rainfall=5.17"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	50	0.0922	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.21"
0.9	67	0.0651	1.28		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.1	15	0.0651	4.11		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.6	37	0.0499	1.12		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.0	12	0.0776	4.48		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.3	55	0.0197	0.70		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.0	125	0.1626	2.02		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
10.6	361	Total			

Subcatchment P1:



Summary for Subcatchment P2:

Runoff = 0.82 cfs @ 12.09 hrs, Volume= 0.064 af, Depth= 4.48"
Routed to Pond 1P :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 10-yr Rainfall=5.17"

Area (sf)	CN	Description
6,145	98	Unconnected pavement, HSG A
1,332	76	Infiltration Trench
7,477	94	Weighted Average
1,332		17.81% Pervious Area
6,145		82.19% Impervious Area
6,145		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

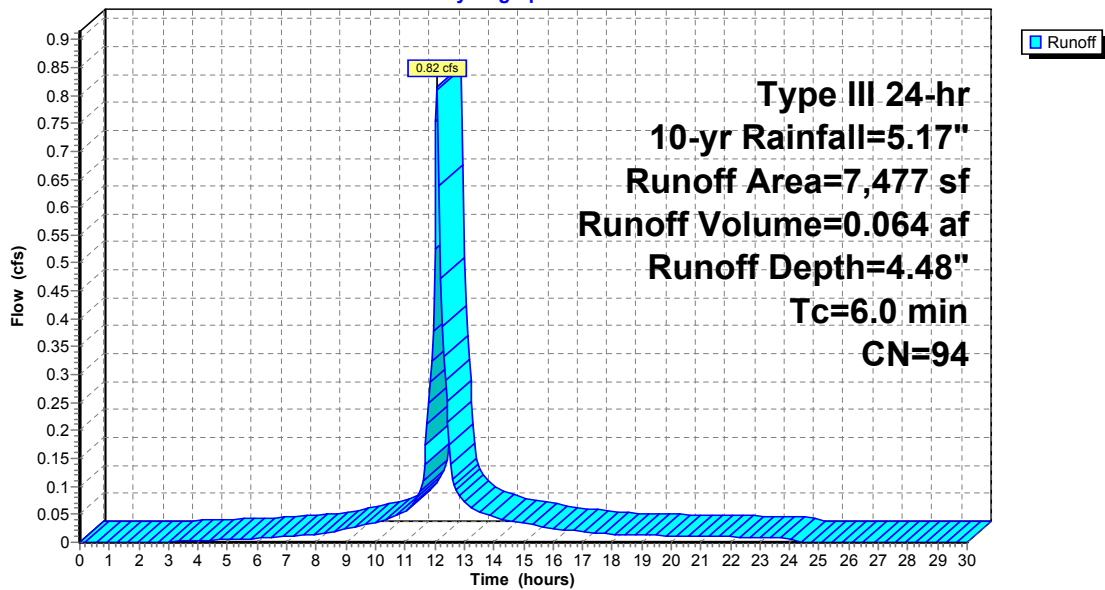
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Subcatchment P2:**Hydrograph****New Leaf Agawam MA - Post**

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Type III 24-hr 10-yr Rainfall=5.17"

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Summary for Pond 1P:

Inflow Area = 0.172 ac, 82.19% Impervious, Inflow Depth = 4.48" for 10-yr event
Inflow = 0.82 cfs @ 12.09 hrs, Volume= 0.064 af
Outflow = 0.07 cfs @ 13.05 hrs, Volume= 0.064 af, Atten= 92%, Lag= 57.9 min
Discarded = 0.07 cfs @ 13.05 hrs, Volume= 0.064 af
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routed to Link POA-1 :

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 161.30' @ 13.05 hrs Surf.Area= 1,332 sf Storage= 1,227 cf

Plug-Flow detention time= 181.9 min calculated for 0.064 af (100% of inflow)
Center-of-Mass det. time= 181.7 min (954.2 - 772.5)

Volume	Invert	Avail.Storage	Storage Description
#1	159.00'	1,598 cf	Custom Stage Data (Prismatic) listed below (Recalc) 3,996 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
159.00	1,332	0	0
160.00	1,332	1,332	1,332
161.00	1,332	1,332	2,664
162.00	1,332	1,332	3,996

Device	Routing	Invert	Outlet Devices
#1	Discarded	159.00'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 157.00'
#2	Secondary	161.90'	4.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

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Type III 24-hr 10-yr Rainfall=5.17"

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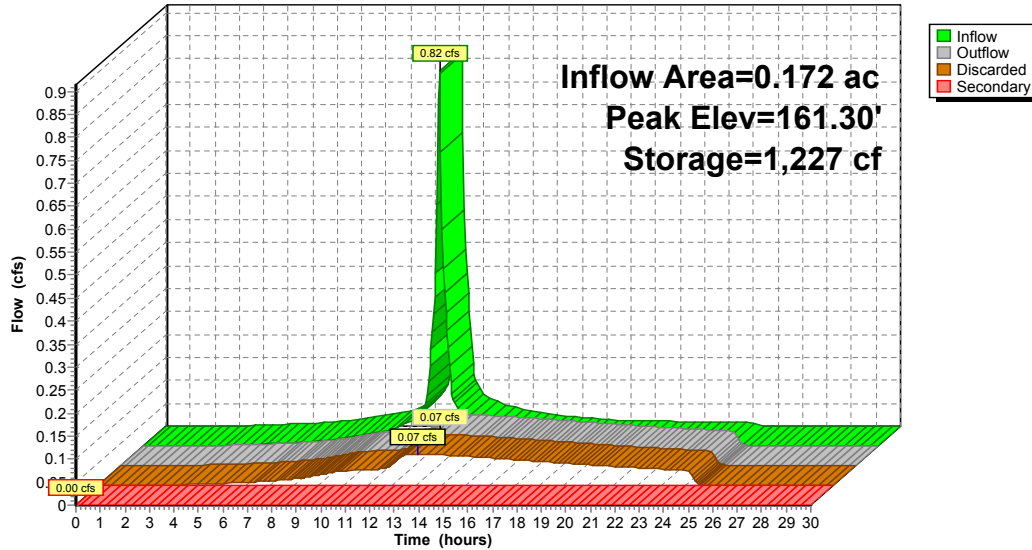
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Discarded OutFlow Max=0.07 cfs @ 13.05 hrs HW=161.30' (Free Discharge)

1=Exfiltration (Controls 0.07 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=159.00' (Free Discharge)

2=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond 1P:**Hydrograph****New Leaf Agawam MA - Post**

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Type III 24-hr 10-yr Rainfall=5.17"

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Stage-Area-Storage for Pond 1P:

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
159.00	1,332	0	160.80	1,332	959
159.05	1,332	27	160.85	1,332	986
159.10	1,332	53	160.90	1,332	1,012
159.15	1,332	80	160.95	1,332	1,039
159.20	1,332	107	161.00	1,332	1,066
159.25	1,332	133	161.05	1,332	1,092
159.30	1,332	160	161.10	1,332	1,119
159.35	1,332	186	161.15	1,332	1,146
159.40	1,332	213	161.20	1,332	1,172
159.45	1,332	240	161.25	1,332	1,199
159.50	1,332	266	161.30	1,332	1,225
159.55	1,332	293	161.35	1,332	1,252
159.60	1,332	320	161.40	1,332	1,279
159.65	1,332	346	161.45	1,332	1,305
159.70	1,332	373	161.50	1,332	1,332
159.75	1,332	400	161.55	1,332	1,359
159.80	1,332	426	161.60	1,332	1,385
159.85	1,332	453	161.65	1,332	1,412
159.90	1,332	480	161.70	1,332	1,439
159.95	1,332	506	161.75	1,332	1,465
160.00	1,332	533	161.80	1,332	1,492
160.05	1,332	559	161.85	1,332	1,518
160.10	1,332	586	161.90	1,332	1,545
160.15	1,332	613	161.95	1,332	1,572
160.20	1,332	639	162.00	1,332	1,598
160.25	1,332	666			
160.30	1,332	693			
160.35	1,332	719			
160.40	1,332	746			
160.45	1,332	773			
160.50	1,332	799			
160.55	1,332	826			
160.60	1,332	852			
160.65	1,332	879			
160.70	1,332	906			
160.75	1,332	932			

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Type III 24-hr 10-yr Rainfall=5.17"

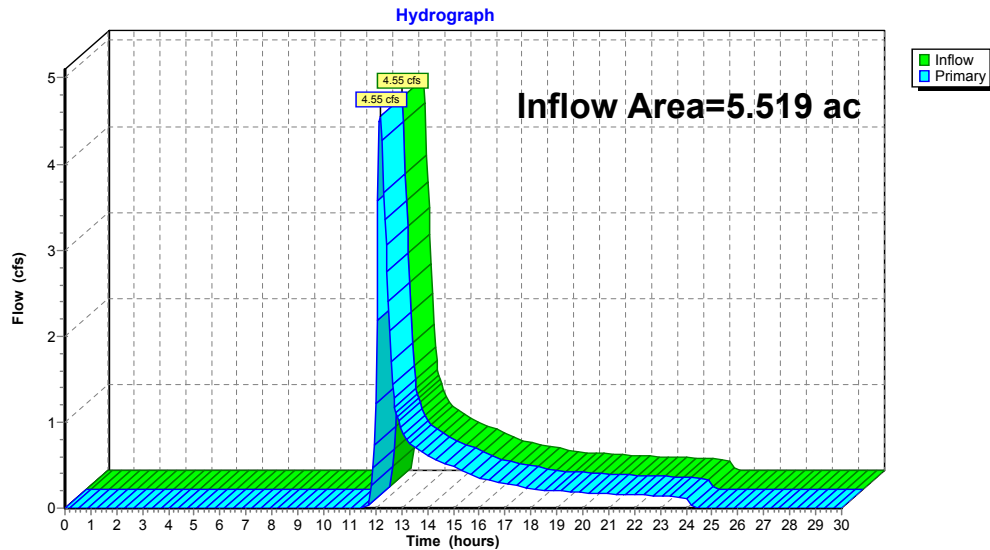
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Summary for Link POA-1:

Inflow Area = 5.519 ac, 3.53% Impervious, Inflow Depth = 1.03" for 10-yr event
Inflow = 4.55 cfs @ 12.18 hrs, Volume= 0.475 af
Primary = 4.55 cfs @ 12.18 hrs, Volume= 0.475 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link POA-1:**New Leaf Agawam MA - Post**

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Type III 24-hr 100-yr Rainfall=8.29"

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Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentP1: Runoff Area=232,938 sf 1.00% Impervious Runoff Depth=2.98"
Flow Length=361' Tc=10.6 min UI Adjusted CN=55 Runoff=15.31 cfs 1.330 af

SubcatchmentP2: Runoff Area=7,477 sf 82.19% Impervious Runoff Depth=7.57"
Tc=6.0 min CN=94 Runoff=1.34 cfs 0.108 af

Pond 1P: Peak Elev=162.00' Storage=1,597 cf Inflow=1.34 cfs 0.108 af
Discarded=0.08 cfs 0.089 af Secondary=0.33 cfs 0.015 af Outflow=0.41 cfs 0.104 af

Link POA-1: Inflow=15.54 cfs 1.345 af
Primary=15.54 cfs 1.345 af

Total Runoff Area = 5.519 ac Runoff Volume = 1.438 af Average Runoff Depth = 3.13"
96.47% Pervious = 5.325 ac 3.53% Impervious = 0.195 ac

New Leaf Agawam MA - Post

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Type III 24-hr 100-yr Rainfall=8.29"

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Summary for Subcatchment P1:

Runoff = 15.31 cfs @ 12.16 hrs, Volume= 1.330 af, Depth= 2.98"
Routed to Link POA-1 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-yr Rainfall=8.29"

Area (sf)	CN	Adj	Description
43,867	76		Gravel roads, HSG A
9,586	77		Fallow, bare soil, HSG A
47,120	49		50-75% Grass cover, Fair, HSG A
13,402	68		<50% Grass cover, Poor, HSG A
80,977	36		Woods, Fair, HSG A
337	30		Woods, Good, HSG A
2,333	98		Unconnected pavement, HSG A
10,723	60		Woods, Fair, HSG B
2,033	55		Woods, Good, HSG B
22,560	77		Woods, Good, HSG D
232,938	56	55	Weighted Average, UI Adjusted
230,605			99.00% Pervious Area
2,333			1.00% Impervious Area
2,333			100.00% Unconnected

New Leaf Agawam MA - Post

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Type III 24-hr 100-yr Rainfall=8.29"

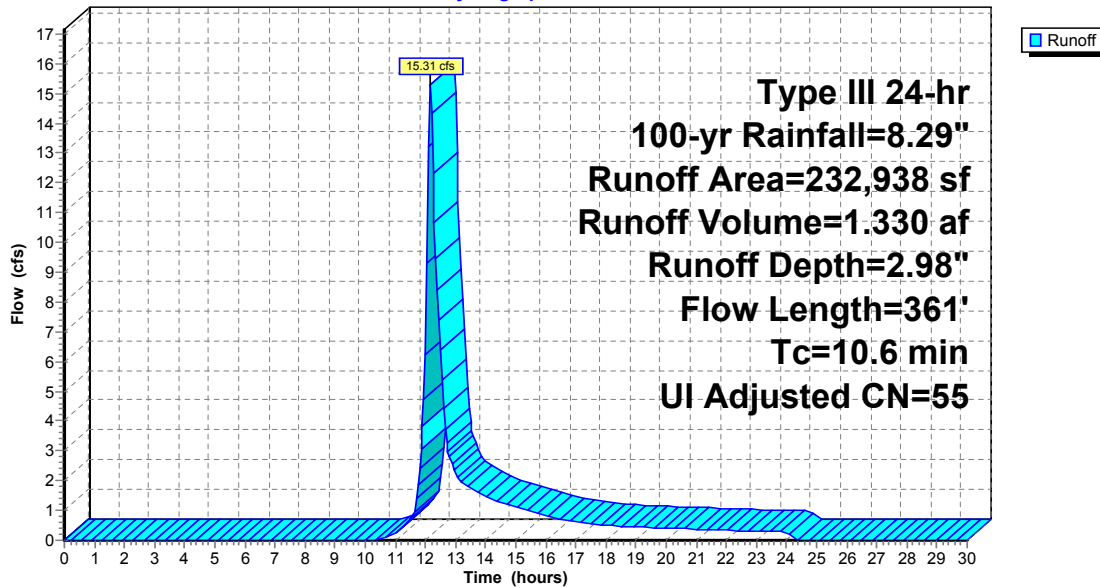
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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	50	0.0922	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.21"
0.9	67	0.0651	1.28		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.1	15	0.0651	4.11		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.6	37	0.0499	1.12		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.0	12	0.0776	4.48		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.3	55	0.0197	0.70		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.0	125	0.1626	2.02		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
10.6	361	Total			

Subcatchment P1:

Hydrograph



Summary for Subcatchment P2:

Runoff = 1.34 cfs @ 12.09 hrs, Volume= 0.108 af, Depth= 7.57"
Routed to Pond 1P :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type III 24-hr 100-yr Rainfall=8.29"

Area (sf)	CN	Description
6,145	98	Unconnected pavement, HSG A
1,332	76	Infiltration Trench
7,477	94	Weighted Average
1,332		17.81% Pervious Area
6,145		82.19% Impervious Area
6,145		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

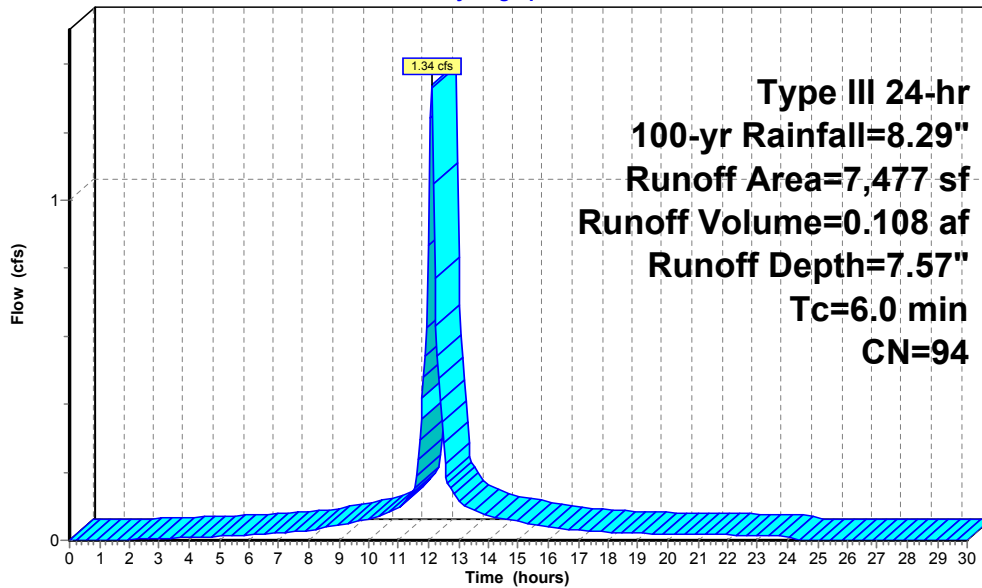
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Type III 24-hr 100-yr Rainfall=8.29"

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Subcatchment P2:**Hydrograph****New Leaf Agawam MA - Post**

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Type III 24-hr 100-yr Rainfall=8.29"

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Summary for Pond 1P:

Inflow Area = 0.172 ac, 82.19% Impervious, Inflow Depth = 7.57" for 100-yr event
Inflow = 1.34 cfs @ 12.09 hrs, Volume= 0.108 af
Outflow = 0.41 cfs @ 12.32 hrs, Volume= 0.104 af, Atten= 69%, Lag= 13.7 min
Discarded = 0.08 cfs @ 12.32 hrs, Volume= 0.089 af
Secondary = 0.33 cfs @ 12.32 hrs, Volume= 0.015 af

Routed to Link POA-1 :

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs / 2
Peak Elev= 162.00' @ 12.32 hrs Surf.Area= 1,332 sf Storage= 1,597 cf

Plug-Flow detention time= 212.7 min calculated for 0.104 af (96% of inflow)
Center-of-Mass det. time= 188.7 min (949.2 - 760.5)

Volume	Invert	Avail.Storage	Storage Description
#1	159.00'	1,598 cf	Custom Stage Data (Prismatic) listed below (Recalc) 3,996 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
159.00	1,332	0	0
160.00	1,332	1,332	1,332
161.00	1,332	1,332	2,664
162.00	1,332	1,332	3,996

Device	Routing	Invert	Outlet Devices
#1	Discarded	159.00'	1.020 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 157.00'
#2	Secondary	161.90'	4.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32

New Leaf Agawam MA - Post

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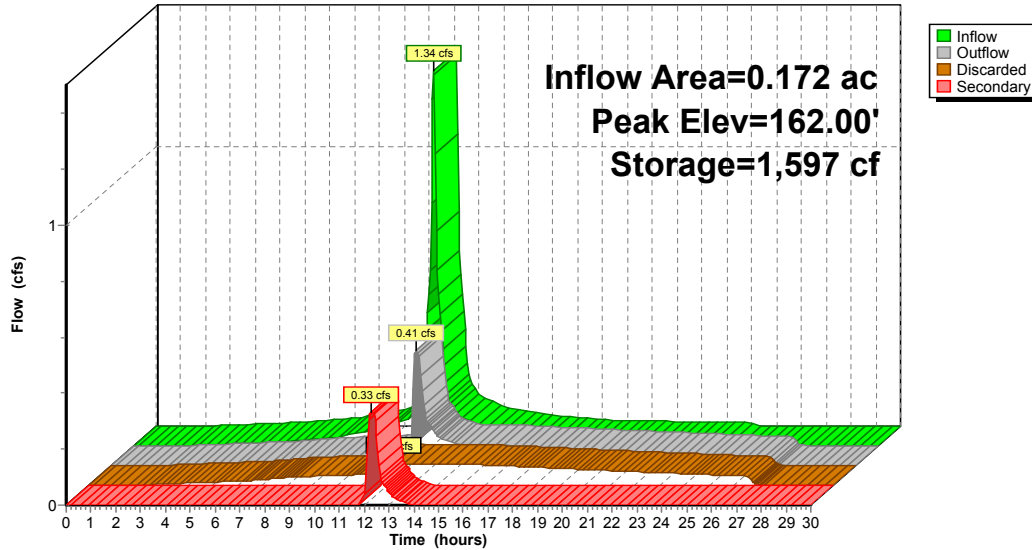
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Discarded OutFlow Max=0.08 cfs @ 12.32 hrs HW=162.00' (Free Discharge)

1=Exfiltration (Controls 0.08 cfs)

Secondary OutFlow Max=0.33 cfs @ 12.32 hrs HW=162.00' (Free Discharge)

2=Broad-Crested Rectangular Weir(Weir Controls 0.33 cfs @ 0.84 fps)

Pond 1P:**Hydrograph****New Leaf Agawam MA - Post**

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Type III 24-hr 100-yr Rainfall=8.29"

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Stage-Area-Storage for Pond 1P:

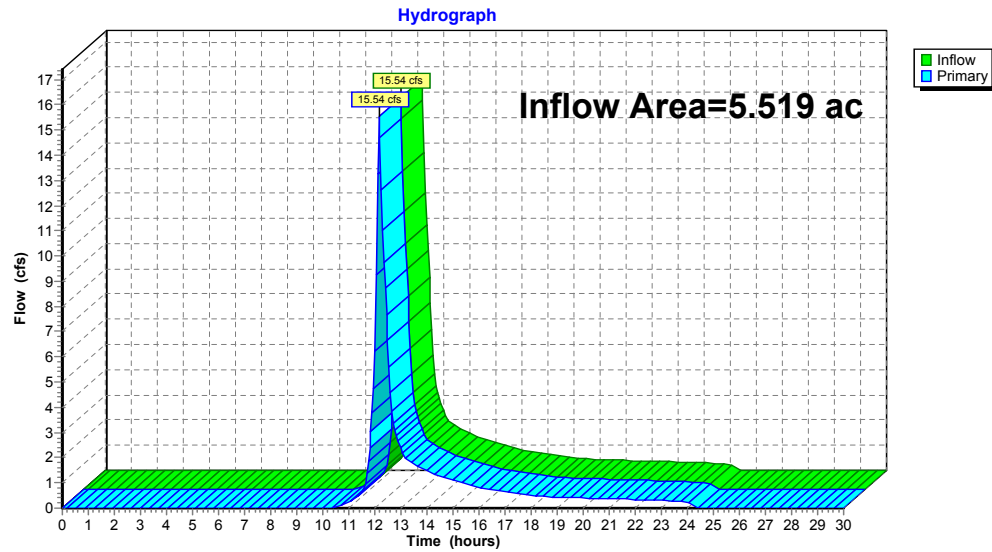
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
159.00	1,332	0	160.80	1,332	959
159.05	1,332	27	160.85	1,332	986
159.10	1,332	53	160.90	1,332	1,012
159.15	1,332	80	160.95	1,332	1,039
159.20	1,332	107	161.00	1,332	1,066
159.25	1,332	133	161.05	1,332	1,092
159.30	1,332	160	161.10	1,332	1,119
159.35	1,332	186	161.15	1,332	1,146
159.40	1,332	213	161.20	1,332	1,172
159.45	1,332	240	161.25	1,332	1,199
159.50	1,332	266	161.30	1,332	1,225
159.55	1,332	293	161.35	1,332	1,252
159.60	1,332	320	161.40	1,332	1,279
159.65	1,332	346	161.45	1,332	1,305
159.70	1,332	373	161.50	1,332	1,332
159.75	1,332	400	161.55	1,332	1,359
159.80	1,332	426	161.60	1,332	1,385
159.85	1,332	453	161.65	1,332	1,412
159.90	1,332	480	161.70	1,332	1,439
159.95	1,332	506	161.75	1,332	1,465
160.00	1,332	533	161.80	1,332	1,492
160.05	1,332	559	161.85	1,332	1,518
160.10	1,332	586	161.90	1,332	1,545
160.15	1,332	613	161.95	1,332	1,572
160.20	1,332	639	162.00	1,332	1,598
160.25	1,332	666	162.05	1,332	1,598
160.30	1,332	693	162.10	1,332	1,598
160.35	1,332	719	162.15	1,332	1,598
160.40	1,332	746			
160.45	1,332	773			
160.50	1,332	799			
160.55	1,332	826			
160.60	1,332	852			
160.65	1,332	879			
160.70	1,332	906			
160.75	1,332	932			

Summary for Link POA-1:

Inflow Area = 5.519 ac, 3.53% Impervious, Inflow Depth = 2.92" for 100-yr event
 Inflow = 15.54 cfs @ 12.16 hrs, Volume= 1.345 af
 Primary = 15.54 cfs @ 12.16 hrs, Volume= 1.345 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs

Link POA-1:



Attachment D - Supporting Calculations

Silver Street Energy Storage, LLC
c/o New Leaf Energy, Inc.
Agawam, MA

Peak Rate Attenuation

OFF-SITE SUMMARY		FLOW			VOLUME		
Point of Analysis	24-hour Storm Event	Existing Peak Runoff (cfs)	Proposed Peak Runoff (cfs)	Difference in Peak Runoff (cfs)	Existing Discharge Volume (af)	Proposed Discharge Volume (af)	Difference in Volume (af)
POA - 1	2	0.6	0.5	0.0			
	10	4.7	4.6	-0.2			
	100	15.8	15.5	-0.3	1.4	1.3	0.0

Silver Street Energy Storage, LLC
c/o New Leaf Energy, Inc.
Agawam, MA

Town of Agawam Regulations for Stormwater Mangement Permit
Section 6.C Performance Standards for New Development
Average Annual Pollutant Removal

Required Retention Volume

Retention Volume = 1 in x 1 ft / 12 in x Impervious Area (sqft)

Drainage Area	Proposed Impervious Area (sqft)	Required Retention Volume (cf)	Provided Retention Volume (cf)
POA-1	18,311	1,526	1,545

Notes:

1. Provided retention volume is calculated in the HydroCAD model based on the total storage volume available in the infiltration trench.

Attachment E - Stormwater Operation & Maintenance Plan

STORMWATER OPERATIONS AND MAINTENANCE PLAN

1.0 Introduction

The following document has been written to comply with the stormwater guidelines set forth by the Massachusetts Department of Environmental Protection (MassDEP) and the Water & Sewer Ordinance section of the Town of Agawam Code. The intent of these guidelines is to encourage Low Impact Development techniques to improve the quality of the stormwater runoff. These techniques, also known as Best Management Practices (BMPs) collect, store, and treat the runoff before discharging to adjacent environmental resources.

2.0 Purpose

This Stormwater Operation and Maintenance Plan (O&M Plan) is intended to provide a mechanism for the consistent inspection and maintenance of the BMP installed on the project site. Included in this O&M Plan is a description and an inspection form for the BMP type.

Silver Street Energy Storage, LLC, c/o New Leaf Energy, Inc. is the owner and operator of the system and are responsible for its upkeep and maintenance. This work will be funded on an annual basis through the owner's operating budget.

Owner/Operator:

Silver Street Energy Storage, LLC
c/o New Leaf Energy, Inc.
55 Technology Drive #102
Lowell, MA 01851
(978) 995-3054
wperegoy@newleafenergy.com

3.0 BMP Descriptions and Locations

3.1 Infiltration Trench

There is a proposed infiltration trench surrounding the equipment pad area that will collect stormwater runoff from the equipment pads.

4.0 Inspection, Maintenance Checklist and Schedule

All inspection and maintenance of the stormwater BMP should be in accordance with Volume 2 Chapter 2: Structural BMP Specifications for the Massachusetts Stormwater Handbook.

4.1 Infiltration Trench

Infiltration trench is to be inspected after the first several rainfall events, and then every 6 months and after every major storm event greater than 3.21 inches (the 2-year 24-hour storm). Inspect for and remove any debris, sediment, grass clippings, or leaves.

STORMWATER OPERATIONS AND MAINTENANCE PLAN

INSPECTION CHECKLIST SHEET

☐ Infiltration Trench

Frequency: Inspect infiltration trench after the first several rainfall events, and then once every 6 months and after ever major storm event greater than 3.21 inches.

Structure No: _____

Inspected By: _____ Date: _____

Observations: _____

Actions Taken: _____

Instructions: Inspect for and remove any debris, sediment, grass clippings, or leaves.

Attachment F - Construction Period Pollution and Erosion and Sedimentation Plan

CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN

SECTION 1: Introduction

The project applicant proposes construction of a battery energy storage system (BESS) with associated site improvements located at 404 Silver Street in Agawam, Massachusetts.

As part of this project, this "Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan" has been created to minimize erosion and sedimentation during the implementation of the project.

SECTION 2: Construction Period Pollution Prevention Measures

Best Management Practices (BMPs) will be utilized as Construction Period Pollution Prevention Measures to reduce potential pollutants and prevent any off-site discharge. The objectives of the BMPs for construction activity are to minimize the disturbed areas, stabilize any disturbed areas, control the site perimeter, and retain sediment. Non-stormwater best management measures will be used to minimize site disturbance and ensure compliance with the performance standards of the Wetlands Protection Act and Stormwater Standards. Measures will be taken to minimize the area disturbed by construction activities to reduce the potential for soil erosion and stormwater pollution problems. In addition, good housekeeping measures will be followed for the day-to-day operation of the construction site under the control of the contractor to minimize the impact of construction. This section describes the control practices that will be in place during construction activities. Recommended control practices will comply with the standards set in the MA DEP Stormwater Policy Handbook.

2.1 Minimize Disturbed Area and Protect Natural Features and Soil

To minimize disturbed areas, work will be completed within well-defined work limits. These work limits are shown on the construction plans. The Contractor will not disturb native vegetation in the undisturbed wetland areas. The Contractor will be responsible to make sure that their workers and any subcontractors know the proper work limits and do not extend their work into the undisturbed areas. The protective measures are described in more detail in the following sections.

2.2 Control Stormwater Flowing onto and through the Project

Construction areas adjacent to wetland resources will be lined with silt fence sediment barriers. The barriers will be inspected at least once every 7 calendar days, or every 14 calendar days and within 24 hours of a storm event of 0.25 inches or greater, and accumulated silt will be removed as needed.

2.3 Stabilize Soils

The Contractor should limit the area of land which is exposed and unvegetated during construction. The Contractor should follow the seeding requirements outlined on the plans and will be responsible for maintaining the seeded areas until final acceptance is received. Final acceptance after 90 days following construction, or until the site reaches 70% stabilization, whichever is longer.

CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN

2.4 Proper Storage and Cover of Any Stockpiles

The location of the Contractor's storage areas for equipment and/or materials should be upon cleared portions of the job site or areas to be cleared as a part of this project, outside of wetlands and wetland buffer areas.

Adequate measures for erosion and sediment control such as the placement of straw wattle sediment barriers around the downstream perimeter of stockpiles will be employed to protect any downstream areas from siltation.

There will be no storage of equipment or materials in areas designated as wetlands.

2.5 Perimeter Controls and Sediment Barriers

Silt fence (as detailed in the site plans) will be utilized to ensure that sedimentation does not occur outside the perimeter of the work area. Straw wattle (as detailed in the site plans) will be utilized to ensure that sediment does not disperse from stockpile areas.

2.6 Storm Drain Inlet Protection

There are no storm drains in the work area.

2.7 Retain Sediment On-Site

The Contractor will be responsible for monitoring erosion control measures. Whenever necessary, the Contractor will clear sediment from the silt fence sediment barriers that have been silted up during construction. Inspections must be documented using the attached Monitoring Form.

2.8 Material Handling and Waste Management

Materials stored on-site will be stored in a neat, orderly manner in appropriate containers. Materials will be kept in their original containers with the original manufacturer's label. Substances will not be mixed with one another unless recommended by the manufacturer.

Waste materials will be collected and stored in a securely lidded metal container from a licensed management company. The waste and any construction debris from the site will be hauled off-site and disposed of properly. The contractor will be responsible for waste removal. Manufacturer's recommendations for proper use and disposal will be followed for materials. If portable sanitary waste facilities will be used on-site, sanitary waste will be collected from the units a minimum of once a week, by a licensed sanitary waste management contractor.

2.9 Designated Washout Areas

The Contractor shall only perform equipment washout in the designated area shown on the plans.

2.10 Proper Equipment/Vehicle Fueling and Maintenance Practices

On-site vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the risk of leakage. To ensure that leaks from stored equipment do not contaminate the site, oil-absorbing mats will be placed under oil-containing equipment during storage. Regular fueling and service of the equipment may be performed using approved methods and with care taken to minimize chance of spills. Repair of equipment or machinery within the 100' water resources area is not allowed. Any petroleum products will be stored in tightly sealed containers that are clearly labeled with spill control pads/socks placed under/around their perimeters.

2.11 Equipment/Vehicle Washing

The Contractor will be responsible to ensure that no equipment is washed on-site.

CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN

SECTION 3: Spill Prevention and Control Plan

The Contractor will be responsible for preventing spills in accordance with the project drawings and applicable federal, state, and local regulations. The Contractor will identify a properly trained site employee, involved with the day-to-day site operations to be the spill prevention and cleanup coordinator. The name(s) of the responsible spill personnel will be posted on-site. Each employee will be instructed that all spills are to be reported to the spill prevention and cleanup coordinator.

3.1 Spill Control Equipment

Spill control/containment equipment will be kept in the work area. Materials and equipment necessary for spill cleanup will be kept either in the work area or in an otherwise accessible on-site location. Equipment and materials will include, but not be limited to, absorbent booms/mats, brooms, dust pans, mops, rags, gloves, sand, plastic and metal containers specifically for this purpose. It is the responsibility of the Contractor to ensure the inventory will be readily accessible and maintained.

3.2 Notification

Workers will be directed to inform the on-site supervisor of a spill event. The supervisor will assess the incident and initiate proper containment and response procedures immediately upon notification. Workers should avoid direct contact with spilled materials during the containment procedures. Primary notification of a spill should be made to the local Fire Department and Police Departments. Secondary Notification will be to the certified cleanup contractor if deemed necessary by Fire and/or Police personnel. The third level of notification (within 1 hour), if required, is to the DEP or municipality's Licensed Site Professional (LSP) if the spill exceeds the reportable quantity for the material spilled. The specific cleanup contractor to be used will be identified by the Contractor prior to commencement of construction activities.

3.3 Spill Containment and Clean-Up Measures

Spills will be contained with granular sorbent material, sand, sorbent pads, booms or all of the above to prevent spreading. Certified cleanup contractors should complete spill cleanup. The material manufacturer's recommended methods for spill cleanup will be clearly posted and on-site personnel will be made aware of the procedures and the location of the information and cleanup supplies.

3.4 Hazardous Materials Spill Report

The Contractor will report and record any spill. The spill report will present a description of the release, including the quantity and type of material, date of the spill, circumstances leading to the release, location of spill, response actions and personnel, documentation of notifications and corrective measures implemented to prevent reoccurrence.

This document does not relieve the Contractor of the Federal reporting requirements of 40 CFR Part 110, 40 CFR Part 117, 40 CFR Part 302 and the State requirements specified under the Massachusetts Contingency Plan (M.C.P) relating to spills or other releases of oils or hazardous substances. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117 or 40 CFR Part 302, occurs during a twenty-four (24) hour period, the Contractor is required to comply with the response requirements of the above mentioned regulations. Spills of oil or hazardous material in excess of the reportable quantity will be reported to the National Response Center (NRC).

CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN

SECTION 4: Contact Information/Responsible Parties

Owner/Operator:

Silver Street Energy Storage, LLC
c/o New Leaf Energy, Inc.
55 Technology Drive, Suite 102
Lowell, MA 01851
978-995-3054
wperegoy@newleafenergy.com

Engineer:

Rob Bukowski, PE
Weston & Sampson Engineers, Inc.
55 Walkers Brook Drive, Suite 100
Reading, MA 01867
978-532-1900
Bukowski.rob@wseinc.com

Site Inspector:

TBD

Contractor:

TBD

SECTION 5: Erosion and Sedimentation Control

Erosion and Sedimentation Control features can be found in the attached project plans which include specifications for installation and monitoring control devices.

SECTION 6: Site Development Plan

The proposed site development plan is included in the attached plans.

SECTION 7: Operation and Maintenance of Erosion Control

The erosion control measures will be installed as detailed in project plans. If there is a failure of the controls, the Contractor is required to stop work until the failure is repaired.

Periodically throughout the work, the sediment that has been deposited against the controls will be removed to ensure that the controls are working properly.

SECTION 8: Inspection Schedule

During construction, the erosion and sedimentation controls will be inspected at least once every 7 calendar days, or once every 14 calendar days and within 24 hours of the end of a storm event of 0.25 inches or greater. Once the Contractor is selected, an on-site inspector will be identified to ensure that erosion and sedimentation controls are in place and working properly. A Monitoring Form is included for use by the on-site inspector.

CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN

Monitoring Form

Inspected By: _____ Date: _____ Time: _____

YES	NO	DOES NOT APPLY	ITEM
			Do any erosion/siltation control measures require repair or clean out to maintain adequate function?
			Is there any evidence that sediment is leaving the site and entering the wetlands?
			Are any temporary soil stockpiles or construction materials located in non-approved areas?
			Are on-site construction traffic routes, parking, and storage of equipment and supplies located in areas not specifically designed for them?
			Are storage of fuels located outside of resource areas and associated buffer zones? Are fuels stored in proper storage containers?

Specific location, current weather conditions, and action to be taken:

Other Comments:

Pending the actions noted above I certify that the erosion and sedimentation controls at the site are in compliance with the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan.

Signature: _____ Date: _____

.....

Attachment G - Owner Certification Statement

OWNER CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person(s) who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete."

Name: William Peregoy

Signature: 

Date: Sep 24, 2024

boxSIGN 1787Q534-4P7KPY53

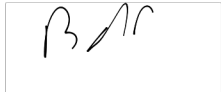
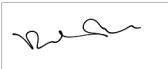
EXHIBIT F

Date: Aug 10, 2024

To Whom It May Concern

New Leaf Energy, Inc. and its employees and affiliates are hereby authorized to act as our agent for submission of applications and related plans and documents, and to appear before boards and other officials, with respect to obtaining approvals for solar installations and/or energy storage systems to be constructed on my property located at 404 Silver Street – Agawam, MA.

Sincerely,


box SIGN 402JZQ2V-1XG2ZKP6
Robert T. Pelley
box SIGN 402JZQ2V-1XG2ZKP6

Deborah A. Pelley

Site Plans

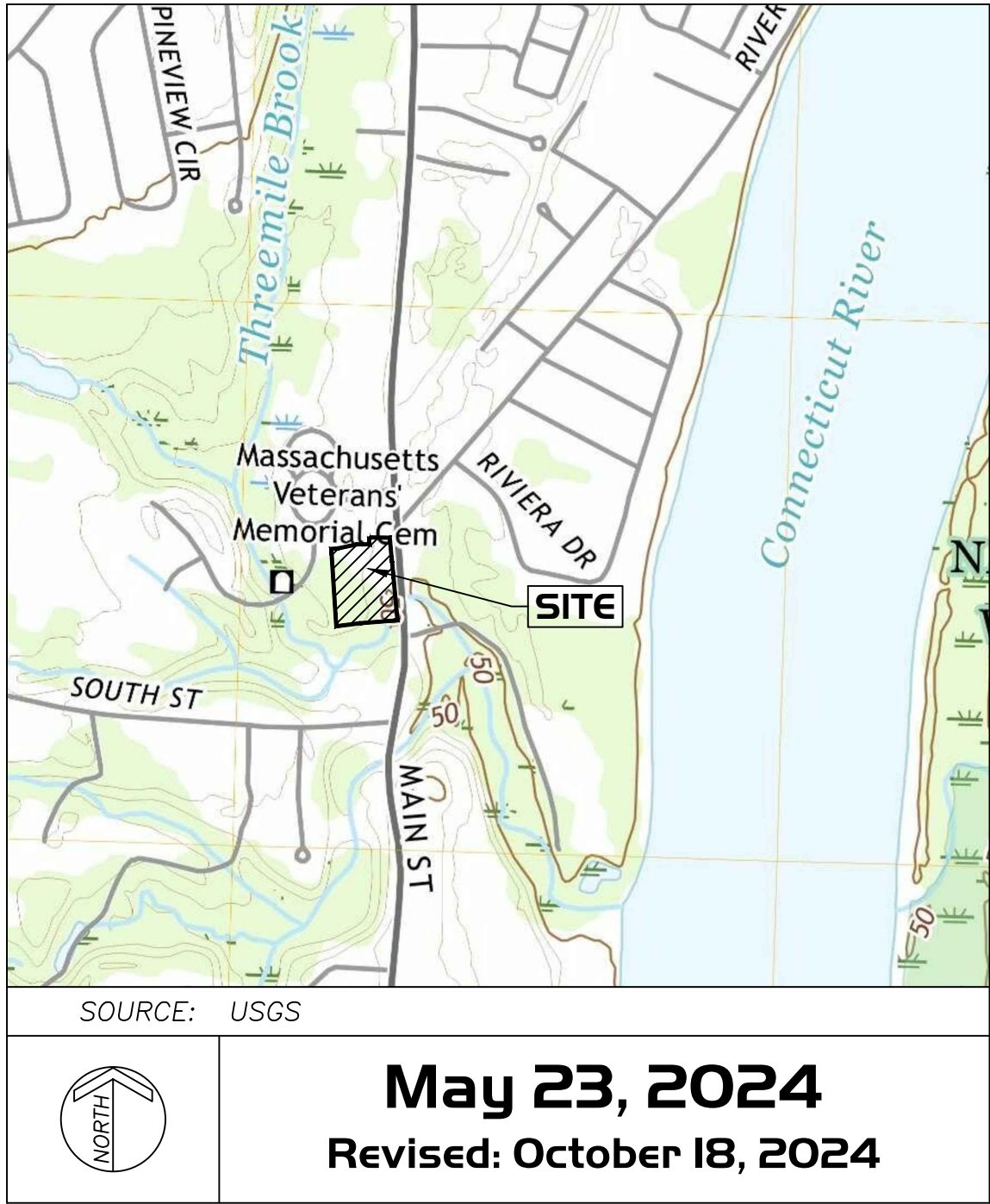
Proposed Hotel

1422 - 1444 Main Street Agawam, MA Map K4 Block I Parcel 5, 6, 7, & 13

AS PREPARED FOR

Shield Hotels
Mr. Kenny Patel

63 Myron Street
West Springfield, MA 01089



DRAWING INDEX			
SHEET NO.	SHEET NAME	ISSUE DATE	REVISION DATE
T-1	TITLE SHEET	5/23/24	10/18/24
EX-1	EXISTING CONDITIONS PLAN	5/23/24	10/3/24
C-1	NOTES, SYMBOL & LINE LEGEND, AND ABBREVIATIONS	5/23/24	9/9/24
C-2	CONSTRUCTION NOTES	5/23/24	
C-3	DEMOLITION AND REMOVALS PLAN	5/23/24	10/18/24
C-4	LAYOUT AND MATERIALS PLAN	5/23/24	10/18/24
C-5	GRADING, EROSION & SEDIMENTATION CONTROL PLAN	5/23/24	10/18/24
C-6	DRAINAGE AND UTILITIES PLAN	5/23/24	10/18/24
C-7	LANDSCAPING PLAN	5/23/24	10/18/24
SL-1	PHOTOMETRIC PLAN	5/23/24	10/16/24
VEH-1	VEHICLE SWEEP PATH	8/1/24	10/11/24
D-1	DETAILS	5/23/24	9/24/24
D-2	DETAILS	5/23/24	10/18/24
D-3	DETAILS	5/23/24	
D-4	DETAILS	5/23/24	9/24/24
D-5	DETAILS	5/23/24	9/24/24

BY

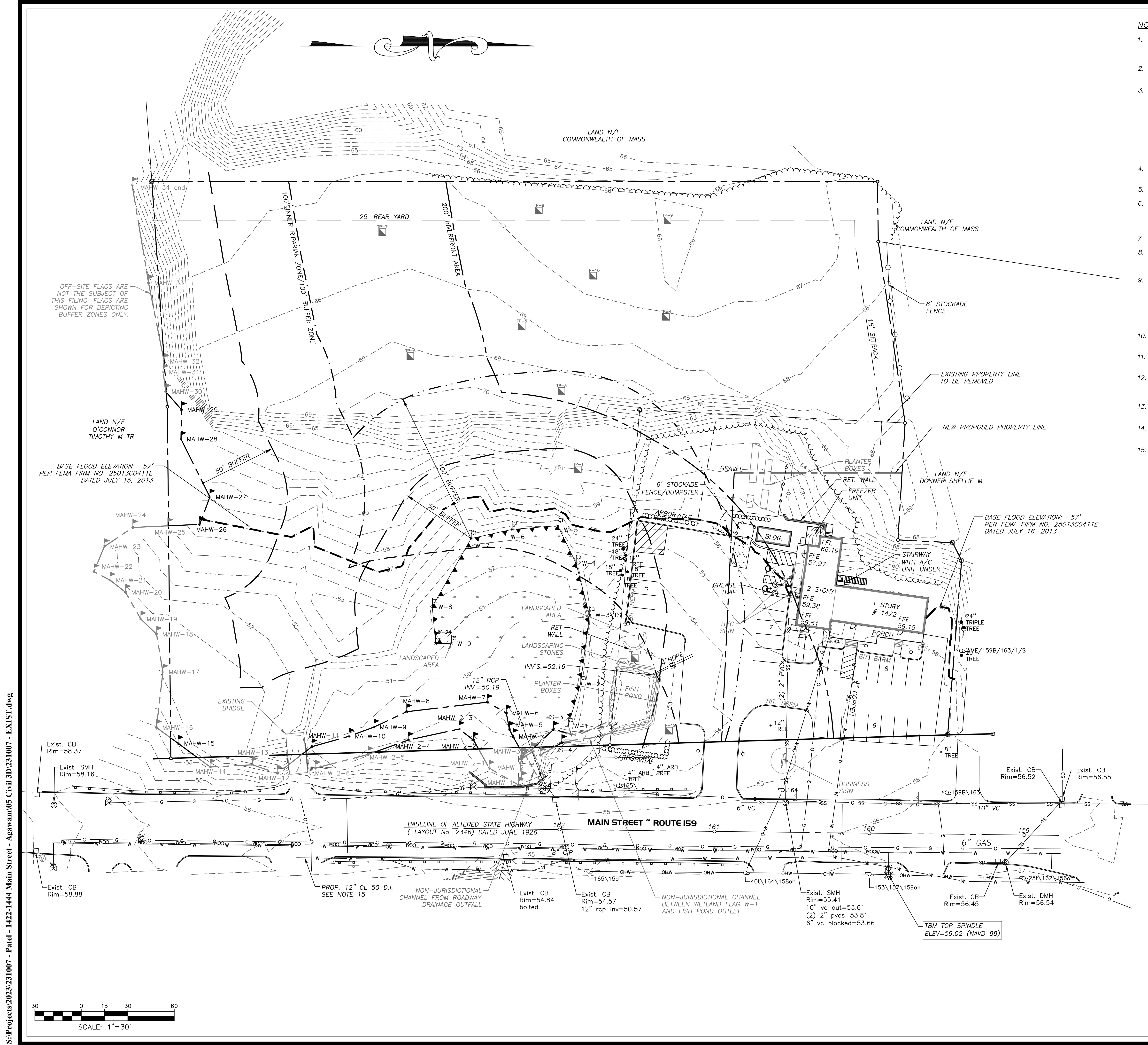


R LEVESQUE
ASSOCIATES

INC

A LAND PLANNING SERVICES COMPANY

40 School Street · Westfield, MA · 01085
ph 413.568.0985 · fax 413.568.0986
www.rlaland.com



NOTES

1. THE RECORD OWNER OF THE SUBJECT PARCEL IS RENU RAYONIA AND RAJESH RAYONIA AND DEBRA ANN DESMOND. SEE HAMPTON COUNTY REGISTRY OF DEEDS BOOK 13612 PAGE 330 AND BOOK 18614 PAGE 149.
2. THE PROPERTY LINES SHOWN HEREON ARE BASED UPON A PLAN TITLED, "BASE MAP" PREPARED BY D.L. BEAN INC, DATED APRIL 2012.
3. THE EXISTING BUILDING(S) SHOWN HEREON ARE BASED ON AN APPROXIMATE MEASUREMENT OF THE OUTSIDE PERIMETER OF THE EXISTING STRUCTURES. THE ACTUAL LOCATION OF THE EXISTING BUILDING WALLS AND CORNERS SHOULD BE VERIFIED IN THE FIELD PRIOR TO ANY CONSTRUCTION WORK THAT WOULD ABUT OR TAKE PLACE ADJACENT TO THE EXISTING BUILDING(S). IF THE PLAN HEREON IS USED FOR CONSTRUCTION LAYOUT PURPOSES, THE PARTIES CONDUCTING LAYOUT SHALL CONTACT R. LEVESQUE ASSOCIATES INC. PRIOR TO SAID LAYOUT TO DETERMINE PROPER CONTROL. PLEASE NOTE WHILE THE BUILDING(S) ARE SHOWN TO BE SQUARE, IT SHOULD NOT BE ASSUMED THAT THE WALLS ARE SQUARE OR PLUMB. R. LEVESQUE ASSOCIATES TAKES NO RESPONSIBILITY FOR THIRD PARTY LAYOUT OF THE PLAN SHOWN HEREON.
4. THIS PLAN HAS BEEN PREPARED FOR SITE PLANNING PURPOSES AND SHALL NOT BE USED FOR THE CONVEYANCE OF LAND OR FOR ANY OTHER USE.
5. SUBJECT PARCELS CONTAINS 4.04 ACRES.
6. THE SUBJECT PROPERTIES SHOWN HEREON MAY BE SUBJECT TO RIGHTS AND EASEMENTS AS CONTAINED IN THE VARIOUS DEEDS OF RECORD DESCRIBING SAID PROPERTIES. THE LOCATION AND EXTENT OF ANY SUCH RIGHTS AND EASEMENTS IS NOT THE SUBJECT OF THIS PLAN.
7. WETLANDS AND M.A.H.W. DELINEATED BY R. LEVESQUE ASSOCIATES INC IN MAY 2024.
8. THE EXISTING CONDITIONS INFORMATION SHOWN IS BASED UPON A TOPOGRAPHIC SURVEY PERFORMED BY R. LEVESQUE ASSOCIATES, INC. MARCH 2014 AND DECEMBER 2023. THE VERTICAL DATUM USED IN THE SURVEY IS NAVD88.
9. THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION, AVAILABLE RECORD DATA, TOWN OF AGAWAM GIS. R. LEVESQUE ASSOCIATES, INC. MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. R. LEVESQUE ASSOCIATES, INC. FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN HERE ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION.
10. ADJACENT PROPERTY LINES AND ABUTTERS SHOWN HEREON ARE REFERENCED FROM THE TOWN OF AGAWAM GIS MAPPING.
11. SUBJECT PARCEL IS ZONED BUSINESS A. DUE TO A ZONED CHANGED APPROVAL ALL PROPERTY SHOWN IS BUSINESS A.
12. THE SUBJECT PARCEL IS LOCATED WITHIN A SPECIAL FLOOD ZONE AREA ACCORDING TO FLOOD INSURANCE RATE MAP NUMBER 25013C0411E - EFFECTIVE DATE: JULY 16, 2013. FLOOD ELEVATION 57' (NAVD 88).
13. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN NATURAL HERITAGE & ENDANGERED SPECIES PROGRAM (NHESP) JURISDICTION.
14. TEST PIT LOCATION SHOWN HEREON PERFORMED BY R. LEVESQUE ASSOCIATES INC. ON 12-27-2023
15. PROPOSED 12" CL 50 D.I. TAKEN FROM PLAN ENTITLED MAIN STREET WATER MAIN IMPROVEMENTS DATED 2-24-2000.

EXISTING CONDITIONS PLAN

1422 and 1444 Main Street
Parcel ID: K4-I-7, K4-I-13, K4-I-5 & K4-I-6
Agawam, MA.



PREPARED FOR:

Shields Hotel
c/o Mr. Kenny Patel
63 Myron Street
West Springfield MA.

ISSUANCE DATE: May 23, 2024

REVISIONS:	DATE:
A. Revised MAHW	7/16/24
B. Peer Review Comments	8/20/24
C. Guardrail location updated	9/9/24
D. Offsite swale added, buffer zone	9/24/24
E. Revise 100' Buffer	10/3/24

DRAFTED BY: t.o.

UNAUTHORIZED ALTERATION OF THIS DOCUMENT IS A VIOLATION OF MASSACHUSETTS STATE LAW

SCALE: As Noted

RLA PROJ. NUMBER: 231007

DRAWING#	REV.
EX-1	E

	IRON PIPE FOUND
	IRON PIPE TO BE SET
	CONCRETE BOUND FOUND
	CONCRETE BOUND TO BE SET
	COMPUTED POINT
	EXISTING SIGN
	EXISTING MAILBOX
	EXISTING MONITORING WELL
	EXISTING LIGHT POLE
	UTILITY POLE
	GUY ANCHOR
	EXISTING ELECTRIC MANHOLE
	EXISTING TELEPHONE MANHOLE
	EXISTING CABLE TV BOX
	EXISTING WELL LOCATION
	EXISTING WATER VALVE
	EXISTING WATER SHUT-OFF
	EXISTING HYDRANT
	PROPOSED WATER VALVE
	PROPOSED HYDRANT
	EXISTING GAS VALVE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING CATCH BASIN
	EXISTING DRAIN MANHOLE
	PROPOSED CATCH BASIN
	PROPOSED MANHOLE
	SOIL BORING LOCATION
	TEST PIT LOCATION
	PERC TEST LOCATION
	WETLAND FLAG LOCATION
	M.A.H.W. FLAG LOCATION
	EXISTING STONE WALL
	TREE LINE
102.4	EXISTING SPOT GRADE
219 - - - -	EXISTING CONTOUR
94.7	PROPOSED SPOT GRADE
214 ————	PROPOSED CONTOUR
	EDGE OF WETLAND
	FENCE LINE
	GUARDRAIL
— OHW ———	EXISTING OVERHEAD WIRES
— UEL ———	EXISTING UNDERGROUND ELECTRIC
— TEL ———	EXISTING TELEPHONE LINE
— G ———	EXISTING GAS LINE
— W ———	EXISTING WATER LINE
— SD ———	EXISTING STORM DRAIN
— SS ———	EXISTING SANITARY SEWER
— LOW ———	LIMIT OF WORK LINE
— SF ———	SILT FENCE LINE

A.F.F.	- ABOVE FINISHED FLOOR
A.F.S.	- ABOVE FINISHED SLAB
APPROX.	- APPROXIMATE
A.T.F.	- ABOVE TOP OF FOUNDATION
BLDG.	- BUILDING
BLK.	- BLOCK
BOT.	- BOTTOM
B.O.W.	- BOTTOM OF WALL
BRG.	- BEARING
CB.	- CATCH BASIN
CL	- CENTERLINE
C.I.	- CAST IRON
CL.R.	- CLEAR
CONC.	- CONCRETE
CONT.	- CONTINUOUS
CONTR.	- CONTRACTOR
DBL.	- DOUBLE
DET.	- DETAIL
D.I.	- DUCTILE IRON
DIA.	- DIAMETER
DIM.	- DIMENSION
DT'L.	- DETAIL
DWG.	- DRAWING
EA.	- EACH
ELEC.	- ELECTRIC
ELEV.	- ELEVATION
EXIST.	- EXISTING
EXT.	- EXTERIOR
FFE	- FINISH FLOOR ELEVATION
FIN.	- FINISH
FLR.	- FLOOR
FOUND.	- FOUNDATION
FT.	- FOOT OR FEET
INSTL.	- INSTALLED
LIT.	- LIGHT
MAX.	- MAXIMUM
M.A.H.W.	- MEAN ANNUAL HIGH WATER
MH.	- MANHOLE
MIN.	- MINIMUM
MISC.	- MISCELLANEOUS
N.T.S.	- NOT TO SCALE
O.A.	- OVERALL
O.C.	- ON CENTER
PCB	- PROPOSED CATCH BASIN
PDHM	- PROPOSED DRAIN MANHOLE
PFES	- PROP. FLARED END SECTION
POCS	- PROP. OUTLET CONTROL STRUCT.
PROP.	- PROPOSED
PSMH	- PROP. SANITARY SEWER MANHOLE
PWOU	- PROP. WATER QUALITY UNIT
P.S.I.	- POUNDS PER SQUARE INCH
REINF.	- REINFORCING
R.H.	- RIGHT HAND
SHT.	- SHEET
SPEC.	- SPECIAL OR SPECIFICATIONS
SQ.	- SQUARE
ST.	- STEEL
STA.	- STATION
T.O.F.	- TOP OF FOUNDATION
T.O.W.	- TOP OF WALL
T.S.	- TOP OF STEEL
TYP.	- TYPICAL
W/	- WITH
WTR.	- WATER
W.W.M.	- WELDED WIRE MESH

1. RIP-RAP OUTLET PROTECTION: RIP-RAP SHALL BE PROVIDED AT ALL PIPE OUTLETS. MATERIAL SHALL BE HARD, DURABLE FIELD OR QUARRY STONE WHICH IS ANGULAR AND RESISTS BREAKING DOWN WHEN EXPOSED TO WATER OR WEATHERING.
2. CONSTRUCTION ENTRANCE: CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS.
3. DUST CONTROL: A WATER TRUCK SHOULD BE LOCATED ON-SITE FOR DUST CONTROL WHILE WORK IS PROCEEDING. MAINTENANCE SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT. THE FOLLOWING ITEMS SHALL BE CHECKED IN PARTICULAR:
 - A. RIP-RAP OUTLET PROTECTION SHALL BE CHECKED REGULARLY FOR SEDIMENT ACCUMULATION. IF SIGNIFICANT AMOUNTS OF SEDIMENT ACCUMULATE, RIP-RAP SHALL BE REMOVED AND REPLACED.
 - B. SILT FENCING SHALL BE INSPECTED REGULARLY FOR UNDERMINING AND DETERIORATION. REMOVE SEDIMENT FROM BEHIND FENCE WHEN IT BECOMES 6 INCHES DEEP.
 - C. SEEDED/MULCHED AREAS SHALL BE INSPECTED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE REPAIRED AS NECESSARY.

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATION, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH.
2. CONTRACTOR SHALL ERECT AND MAINTAIN SAFETY BARRICADES AND POST PROPER NOTICES PRIOR TO THE COMMENCEMENT OF WORK.
3. CONTRACTOR SHALL PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
4. CONTRACTOR SHALL MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM FROM DAMAGE DURING DEMOLITION OPERATIONS.
5. DO NOT DAMAGE EXISTING UTILITIES TO REMAIN WITHIN PROJECT AREA. ALL DAMAGE TO EXISTING UTILITIES TO REMAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE UTILITY OWNER.
6. THERE SHALL BE NO BURNING OF DEMOLISHED MATERIAL ALLOWED ON SITE.
7. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ANY ITEMS TO BE TURNED OVER TO OWNER.
8. DEMOLISH AND REMOVE ALL PAVEMENT, SLABS, FOOTINGS, SUBSURFACE ELEMENTS, MISCELLANEOUS DEBRIS, ETC. WITHIN PROPERTY LINES UNLESS NOTED OTHERWISE.
9. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST SO THAT DUST DOES NOT CREATE A NUISANCE ON ADJACENT ROADS OR PROPERTIES. SITE CONTRACTOR SHALL BE RESPONSIBLE FOR STREET SWEEPING AND CATCH BASIN CLEANING AFTER EACH PHASE OF CONSTRUCTION AND AS NEED IS DETERMINED BY THE ENGINEER.
10. CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY ABANDONED SUBSURFACE SOIL ABSORPTION SYSTEM (SAS) AND MISCELLANEOUS DEBRIS.
11. NO ACTIVITY OTHER THAN NORMAL MAINTENANCE SHALL OCCUR OUTSIDE OF LIMIT OF WORK LINES AS SHOWN ON PLAN WITHOUT THE APPROVAL OF THE ENGINEER.
12. THE CONTRACTOR SHALL NOTIFY DIG SAFE ☎ 1-888-344-7233 PRIOR TO COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITY.

12. SHOULD GC OR ANY SUBCONTRACTOR ENCOUNTER A DISCREPANCY/CONFLICT IN THE PLAN AN THE ACTUAL LOCATION OF A SITE FEATURE, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT/ENGINEER AND OWNER IMMEDIATELY.

13. ALL AREAS DURING CONSTRUCTION NOT DESIGNATED TO RECEIVE OTHER TREATMENT SHALL BE LOAMED TO A MINIMUM DEPTH OF 4" AND SEEDED IN ACCORDANCE WITH THE FOLLOWING:

- INCORPORATE GROUND LIMESTONE INTO ALL AREAS TO BE SEEDED AT A RATE OF 50 LBS/1,000 S.F.
- APPLY 10-6-4 FERTILIZER TO ALL AREAS TO BE SEEDED AT A RATE OF 2 LBS/1,000 S.F.
- THOROUGHLY INCORPORATE LIME AND FERTILIZER INTO SEED BED TO DEPTH OF 3" BY DISCING OR OTHER APPROVED METHOD.
- SEED WITH THE FOLLOWING MIXTURE, APPLIED AT A RATE OF 10 LBS/1,000 S.F. SEED MIX:

NAME OF SEED	% BY WEIGHT IN MIXTURE	MIN. % PURITY	MIN. GERMINATION
POS. PRETENSES "BARON" BARON BLUEGRASS	50	90	75
FESTUCA RUBRA "PENNLAWN" PENNLAWN FESCUE	25	95	85
LOLIUM PERENNE "PENNFINE" PENNFINE	25	98	95

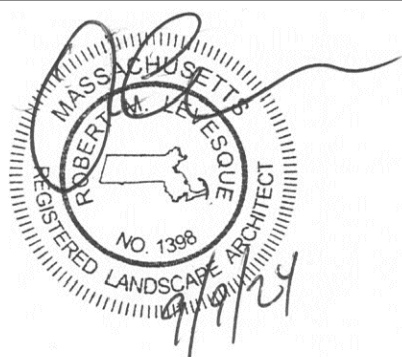
E. MULCH ALL SEEDED AREAS WITH STRAW AT A RATE OF 5 LBS/1,000 S.F. UNLESS HYDROSEEDING WAS USED.

F. ALL SLOPES OF 3:1 OR GREATER AFTER BEING LOAMED, SEEDED AND MULCHED IN ACCORDANCE WITH THE ABOVE SHALL BE SECURED WITH EROSION CONTROL BLANKETS (NO. AMERICAN GREEN S150 OR EQUAL). OVERLAP ALL NETTING JOINTS A MINIMUM OF 6" AND SECURE WITH DOUBLE ROW OF STAPLES.

NAME OF SEED	% BY WEIGHT IN MIXTURE	MIN. % PURITY	MIN. GERMINATION
POS. PRETENSES "BARON" BARON BLUEGRASS	50	90	75
FESTUCA RUBRA "PENNLAWN" PENNLAWN FESCUE	25	95	85
LOLIUM PERENNE "PENNFINE" PENNFINE	25	98	95

F. ALL SLOPES OF 3:1 OR GREATER AFTER BEING LOAMED, SEEDED AND MULCHED IN ACCORDANCE WITH THE ABOVE SHALL BE SECURED WITH EROSION CONTROL BLANKETS (NO. AMERICAN GREEN S150 OR EQUAL). OVERLAP ALL NETTING JOINTS A MINIMUM OF 6" AND SECURE WITH DOUBLE ROW OF STAPLES.

**NOTES, SYMBOL & LINE
LEGEND AND ABBREVIATIONS**



PREPARED FOR:

Kenny Patel
Shield Hotels
63 Myron Street
West Springfield MA

ISSUANCE DATE: May 23, 2024

REVISIONS:	DATE:
A. Peer review comments	9/9/24

DRAFTED BY: M.B. & J.T.

UNAUTHORIZED ALTERATION OF
THIS DOCUMENT IS A VIOLATION
OF MASSACHUSETTS STATE LAW

SCALE: As Noted

RLA PROJ. NUMBER: 231007

DRAWING#	REV.
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C-1

A

PERMITTING
NOT FOR CONSTRUCTION

S:\Projects\2023\231007 - Patel - 1422-1444 Main Street - Agawam\05 Civil\3D\231007 - SITE.dwg

GENERAL CONSTRUCTION NOTES

1. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY/TOWN REPRESENTATIVES, CONSULTING ENGINEER/LANDSCAPE ARCHITECT, UTILITY COMPANY REPRESENTATIVES, AND ANY OTHER AFFECTED PARTIES.
2. THE OWNER, R LEVESQUE ASSOCIATES, INC., AND/OR THEIR REPRESENTATIVES, IN PREPARING THESE PLANS HAVE ATTEMPTED TO LOCATE ALL EXISTING UTILITIES IN THE PROJECT AREA. HOWEVER, THERE MAY BE UTILITIES THAT WERE NOT OR COULD NOT BE LOCATED. UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL CALL ALL APPROPRIATE UTILITY COMPANIES FOR LOCATIONS OF THEIR UTILITIES AT LEAST 48 HOURS BEFORE COMMENCING EXCAVATION. IN THE EVENT THAT A UTILITY IS SITUATED SUCH THAT CONSTRUCTION CANNOT PROCEED AS SHOWN ON THE PLANS, THE PROJECT ENGINEER/LANDSCAPE ARCHITECT AND OWNER SHALL BE NOTIFIED IMMEDIATELY.
3. THE SITE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.
4. ALL FILL WORK REQUIRED TO BRING THE PROPOSED ROADWAY UP TO SUB-GRADE LEVEL SHALL CONFORM TO MHD SPECIFICATIONS SECTION 150.
5. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
6. ALL WORK IN THE CITY/TOWN RIGHT-OF-WAY AND EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY/TOWN SPECIFICATIONS AND MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
7. THE CONTRACTOR SHALL GIVE THE CITY/TOWN A MINIMUM OF 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION.
8. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
9. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE CONDITIONS OF APPROVAL OUTLINED IN ALL STATE AND LOCAL PERMITS. COPIES OF THE CONDITIONS ARE INCLUDED WITHIN THE PROJECTS TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THIS INFORMATION PRIOR TO CONSTRUCTION AND CONFORMING TO THE CONDITIONS AS REQUIRED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL MAINTAIN THE JOB CLEAR OF TRASH AND DEBRIS. THE WORK AREAS ARE TO BE PICKED UP AT THE END OF EACH WORK DAY.
11. ANY TEMPORARY FACILITIES FOR THE STORAGE OR PROTECTION OF TOOLS, EQUIPMENT OR MATERIALS SHALL CONFORM TO LOCAL REGULATIONS AND SHALL BE THE GENERAL CONTRACTORS RESPONSIBILITY. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION, AND COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SAFETY SHALL BE THE GENERAL CONTRACTORS RESPONSIBILITY.
12. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL. NO EXTRAS DUE TO UNFAMILIARITY WITH THE EXISTING SITE OR WORKING CONDITIONS WILL BE ALLOWED.
13. CONTRACTOR SHALL BE REQUIRED TO PERFORM FINAL CLEANUP CONSISTING OF CLEANING THE PROPOSED DRAINAGE AND SEWER SYSTEMS OF ALL DEBRIS PRIOR TO THE ACCEPTANCE BY THE OWNER. ADDITIONALLY, THE PROPOSED ROADWAY SHALL BE CLEANED AND SWEEPED BY THE CONTRACTOR PRIOR TO ACCEPTANCE.
14. ALL EXCAVATION SHALL COMPLY WITH OSHA'S LATEST STANDARDS. ALL REQUIREMENTS OF OSHA'S EXCAVATION STANDARDS SHALL BE PROVIDED BY THE CONTRACTOR INCLUDING, BUT NOT LIMITED TO, THE PROVISION FOR A COMPETENT PERSON ON SITE MANAGER AND ANY REQUIRED DOCUMENTATION THAT MAY REQUIRE CERTIFICATION BY A PROFESSIONAL ENGINEER. THE OWNER, THROUGH ITS ENGINEER, SHALL EXPRESSLY NOT PROVIDE ANY OF THE ABOVE REQUIREMENTS DESIGNATED BY OSHA'S EXCAVATION STANDARD.
15. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COST OF LAYING OUT ALL ITEMS OF THE WORK BASED ON CERTAIN HORIZONTAL CONTROL AND BENCHMARK SUPPLIED BY THE SURVEYOR OF RECORD. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
16. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, PERMITS AND APPURTENANCES NECESSARY TO PROVIDE A COMPLETE PROJECT AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH SITE EXAMINATION IN ORDER TO PREPARE SITE FOR CONSTRUCTION.
18. ANY AND ALL DEMOLISHED TREES, STRUCTURES AND OTHER RUBBLE MATERIAL PERTAINING TO THIS PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE AT HIS EXPENSE IN ACCORDANCE WITH ALL OF THE CITY/TOWN ORDINANCES AND ALL APPLICABLE STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.
19. ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
20. ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING OR COVERING WITH STEEL PLATES.
21. ALL MATERIALS AND METHODS ARE TO COMPLY WITH THE CITY/TOWN DPW STANDARDS OR MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MASSDOT) (WHERE APPLICABLE), UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
22. PERMITS WILL BE REQUIRED BY CONTRACTOR WHEN WORKING WITHIN OR OCCUPYING PUBLIC WAY. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED WORK PERMITS AND MAINTAINING A COPY OF ALL PERMITS IN A THREE RING BINDER OR PROJECT BOOK AND ON-SITE AT ALL TIMES.
23. BACKFILL WILL BE PLACED IN SUCCESSIVE LAYERS NOT MORE THAN TWELVE INCHES IN THICKNESS AND SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY DETERMINED BY STANDARD PROCTOR TEST (ASTM 698) FOR ALL APPLICABLE TYPES OF BACKFILL MATERIAL. NO FROZEN MATERIAL SHALL BE USED AS BACKFILL. IF, IN THE OPINION OF THE ENGINEER OR THE DPW, THE EXCAVATED MATERIAL IS UNSUITABLE, THE ENTIRE MATERIAL FOR BACKFILLING SHALL CONSIST OF APPROVED GRAVEL OR APPROVED BORROW, AS DIRECTED. AFTER THOROUGH TAMPING AROUND AND BENEATH THE UTILITY, A SIX-INCH LAYER OF BACKFILL WILL BE THOROUGHLY COMPACTED AS FOLLOWS: IF DRY, SHALL BE MOISTENED AND THEN COMPACTED WITH MECHANICAL TAMPERS OR BY HAND TAMPERS HAVING A TAMPING FACE NOT EXCEEDING 25 SQUARE INCHES IN AREA. THE FINAL TWELVE INCHES OF FILLING WILL, IN ALL CASES, CONSIST OF APPROVED GRAVEL THOROUGHLY TAMPED.
24. CONTRACTOR SHALL PROVIDE FIELD COMPACTION VERIFICATION UTILIZING ASTM D5195-02, STANDARD TEST METHOD FOR DENSITY OF SOIL & ROCK IN-PLACE AT DEPTHS BELOW THE SURFACE BY NUCLEAR METHODS.
25. CONTRACTOR SHALL PROVIDE FIELD COMPACTION RESULTS TO ENGINEER WITHIN 24-HOURS PRIOR TO PLACEMENT OF INFRASTRUCTURE OR BITUMINOUS BINDER.
26. ALL FILL TO BRING PROPOSED ROADWAY UP TO THE SUB-GRADE LEVEL SHALL EXTEND PAST THE EDGE OF THE RIGHT-OF-WAY AT A 2:1 SLOPE. THIS IS TO PROVIDE ADEQUATE SUPPORT FOR THE RIGHT-OF-WAY.

LAYOUT NOTES

1. ALL CONSTRUCTION IN CITY/TOWN RIGHT-OF-WAYS AND/OR EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY/TOWN STANDARD SPECIFICATIONS.
2. IN THE EVENT OF DISCREPANCIES BETWEEN LOCAL SPECIFICATIONS AND SITE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
3. SITE CONTRACTOR SHALL PROTECT ALL BENCHMARKS AND PROPERTY MONUMENTATION AND SHALL REPLACE OR REPAIR, AT HIS OWN EXPENSE, BENCHMARKS AND MONUMENTATION DISTURBED DURING CONSTRUCTION.
4. ALL STRIPING, PAVEMENT MARKINGS, AND TRAFFIC SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, UNLESS OTHERWISE NOTED ON THE PLANS.
5. ALL WORK SHALL COMPLY WITH FEDERAL, STATE AND LOCAL CODES AND ORDINANCES INCLUDING BUT NOT LIMITED TO: AASHTO, OSHA, EPA, DEP, MASSDOT, ETC. THE GENERAL CONTRACTOR SHALL APPLY FOR ALL PERMITS AND SHALL PAY ALL PERMIT RELATED FEES. ALL NECESSARY PERMITS SHALL BE OBTAINED PRIOR TO THE START OF WORK.
6. ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS ARE TO BE VERIFIED BY THE CONTRACTOR. IF FIELD CONDITIONS VARY SIGNIFICANTLY ENOUGH TO REQUIRE A CHANGE TO THE CONTRACT DOCUMENTS, THE PROJECT PROPONENT AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
7. THE SITE/GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL CONTACT THE OWNER AND ENGINEER SHOULD HE FIND ANY CONFLICT OR INCONSISTENCY BETWEEN THE WORK SHOWN ON THE DRAWINGS AND NORMAL ACCEPTED CONSTRUCTION PRACTICES, OR HE SHALL ASSUME RESPONSIBILITY FOR ALL CORRECTIONS.
8. ANY CORRECTIONS REQUIRED FOR REVISIONS TO THE CONTRACT DRAWINGS INITIATED BY THE GENERAL CONTRACTOR OR SUBCONTRACTORS WITHOUT PRIOR APPROVAL OF THE OWNER AND/OR THE ENGINEER SHALL BE ACCOMPLISHED AT THE CONTRACTORS RISK.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL & LEGAL DISPOSAL OF ALL MATERIAL NECESSARY TO PREPARE THE SITE FOR THE NEW CONSTRUCTION AS SHOWN ON THE SITE DRAWINGS.
10. REPAIR DAMAGED CITY/TOWN ROADS AND CURBS IN ACCORDANCE WITH MASSDOT AND/OR THE CITY/TOWN REGULATIONS.
11. CONTRACTOR SHALL SAWCUT PAVEMENT EDGE WHERE PAVEMENT TO REMAIN IS ADJACENT TO PAVEMENT TO BE REMOVED.
12. CONTRACTOR SHALL PREPARE SITE AS NECESSARY FOR CONSTRUCTION SHOWN ON THE PLANS.

EARTHWORK NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
3. STORM PIPE SHALL BE AS NOTED ON PLANS.
4. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
5. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
6. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
7. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
8. ALL STORM PIPE ENTERING STRUCTURES SHALL BE SEALED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
9. ALL STORM SEWER MANHOLES FRAMES AND GRATES ARE TO BE SET EQUAL TO FINISH GRADES, AND SHALL HAVE TRAFFIC BEARING RING & COVERS (H20).
10. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
11. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
12. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
13. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
14. IF CONTRACTOR RELOCATES OR SETS NEW BENCHMARKS, THE VERTICAL ELEVATIONS OF THE BENCHMARKS SHALL BE SET WITHIN A TOLERANCE OF 0.010 FT.
15. CONTRACTOR SHALL LEAVE GRADE BEHIND CURB IN ALL PLANTER AREAS A MINIMUM OF 4" LOW FOR THE PLACEMENT OF SUITABLE TOPSOIL OR PLANTING MIX.

SITE UTILITY NOTES

- GENERAL:
1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
 2. TOPS OF EXISTING MANHOLES SHALL BE SET EQUAL TO FINISH GRADE. IN GRASSED LANDSCAPED AREAS WITH WATER TIGHT LIDS.
 3. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
 4. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
 5. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
 6. SITE/GENERAL CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES AT THE CITY WITH REGARD TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
 7. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
 8. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
 9. CONTRACTOR SHALL COORDINATE INSPECTION OF UTILITY LINES WITH APPROPRIATE AUTHORITIES PRIOR TO BACKFILLING TRENCHES.
 10. CONTRACTOR SHALL COMPLY WITH THE LATEST OSHA STANDARDS OR DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND MAINTENANCE OF ALL SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION.
 11. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES WITH LOCAL COMPANIES TO AVOID CONFLICTS AND TO ASSURE THAT PROPER DEPTHS ARE ACHIEVED. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANIES FOR EXACT LOCATION AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.
 12. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. DUE TO THE LACK OF AVAILABLE DOCUMENTATION, ALL UTILITIES, INCLUDING CURB BOXES, MAY NOT BE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL CALL THE "DIG SAFE CENTER" TO HAVE ALL UTILITIES MARKED ON THE GROUND PRIOR TO THE START OF CONSTRUCTION
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
 14. DO NOT INTERRUPT EXISTING UTILITIES WITHOUT AUTHORIZATION FROM THE OWNER, OWNERS OF ADJACENT PROPERTIES, AND THE CORRESPONDING UTILITY OWNER. CONTRACTOR SHALL ARRANGE TO SHUT OFF UTILITIES, AS REQUIRED, WITH THE UTILITY OWNERS.
 15. COORDINATE UTILITY TERMINATION WITH UTILITY OWNERS.

- SEWER:
1. SANITARY SEWER MAINS AND LATERALS SHALL BE PVC PIPE CONFORMING TO ASTM D 3034--SDR35. THE MINIMUM SIZE FOR SEWER MAINS SHAL BE 8", SEWER LATERALS SHALL BE 4" MIN.
 2. ALL SANITARY SEWERS, SEWER FORCE MAINS, AND SEWER LATERALS SHALL BE INSTALLED IN FIRST-CLASS BEDDING AND IN ACCORDANCE WITH THE DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS. SEWERS SHALL BE INSTALLED TO THE LINE AND GRADE INDICATED ON THE PLANS.
 3. ONLY PRECAST CONCRETE MANHOLES OF A DESIGN APPROVED BY THE TOWN ENGINEER SHALL BE INSTALLED ON A SANITARY SEWER MAIN.
 4. NO GROUNDWATER OR SURFACE WATER SHALL BE DISCHARGED INTO THE SANITARY SEWER.
 5. WHERE ROCK IS ENCOUNTERED, IT SHALL BE REMOVED TO A DEPTH OF ONE FOOT BELOW THE FLOWLINE OF THE SEWER AND THE PIPE LAID IN A PROPERLY COMPACTED GRANULAR MATERIAL APPROVED BY THE TOWN ENGINEER.
 6. ONLY GRANULAR MATERIAL APPROVED BY THE TOWN ENGINEER SHALL BE USED AS BACKFILL IN ANY TRENCH EXCAVATION.

- WATER:
1. CONTRACTOR SHALL CONTACT THE CITY/TOWN WATER DEPARTMENT FOR SPECIFICATIONS AND MAKE OF VALVES, VALVE BOXES, FIRE HYDRANTS AND ALL OTHER WATER LINE APPURTENANCES.
 2. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL DPW SPECIFICATIONS AND WATER DISTRIBUTION SYSTEM. CONTRACTOR SHALL COORDINATE TESTING WITH THE CITY WATER DEPARTMENT.
 3. ALL WATER MAIN SHALL BE DUCTILE IRON (D.I.), CLASS 52, AWWA C-151 (ANSI A21.40). D.I. PIPE SHALL BE DOUBLE CEMENT LINED WITH A SEAL COAT CONFORMING TO AWWA C-104 (ANSI A-21.4).
 4. JOINTS FOR D.I. PIPE SHALL BE PUSH-ON OR OTHERWISE APPROVED, AWWA C151(ANSI A-21.51) WITH GASKETS CONFORMING TO AWWA C-111 (ANSI A-21.11) MAXIMUM LENGTH OF PIPE TO BE 20 L.F.
 5. ALL FITTINGS SHALL BE DUCTILE IRON CLASS 53 WITH PRESSURE RATING OF 350 PSI AND MECHANICAL JOINTS CONFORMING TO AWWA C-151 (ANSI A21.51).
 6. RETAINER GLANDS: RETAINER GLANDS SHALL BE DESIGNED TO IMPART MULTIPLE WEDGING ACTION AGAINST THE PIPE, INCREASE ITS RESISTANCE AS THE PRESSURE INCREASES. GLANDS SHALL BE MANUFACTURED OF DUCTILE IRON CONFORMING TO ASTM A536-80. RESTRAINING DEVICES SHALL BE DUCTILE IRON HEAT-TREATED TO A MINIMUM HARNESS OF 370 BHN. TWIST-OFF NUTS SHALL BE USED TO INSURE PROPER ACTUATING OF THE RETAINER GLAND. DIMENSIONS OF THE GLAND SHALL BE SUCH THAT IT CAN BE USED WITH THE STANDARD MECHANICAL JOINT BELL AND TEE-HEADED BOLTS CONFORMING TO ANSI/AWWA A21.1 AND ANSI/WWA 153/A21.5. THE RETAINER GLAND SHALL HAVE A WORKING PRESSURE OF 250 PSI WITH A MINIMUM SAFETY FACTOR OF 2:1 AND SHALL BE CERTIFIED BY THE MANUFACTURER TO BE COMPATIBLE WITH THE PIPE CLASS AND PIPE MANUFACTURER FOR ALL SIZES PROVIDED ON THE JOB. THE RETAINER GLAND SHALL BE MEGA-LUG AS MANUFACTURED EBAA IRON, INC., OR APPROVED EQUAL.
 7. ALL WATER MAINS, UNLESS OTHERWISE NOTED, SHALL BE INSTALLED WITH A MINIMUM FIVE FEET OF COVER. WHEN CROSSING ABOVE OR BELOW WATER PIPELINES, A MINIMUM VERTICAL SEPARATION OF SIX INCHES SHALL BE PROVIDED. WHEN CROSSING SANITARY SEWERS, A MINIMUM OF 18" SHALL BE PROVIDED.

SITE UTILITY NOTES (CONTINUED)

8. THE INSTALLED WATER MAIN SHALL BE PRESSURE TESTED, FLUSHED AND DISINFECTED BY CONTRACTOR IN ACCORDANCE WITH AWWA C-600 AND AWWA C-651 OR PER CITY/TOWN WATER DEPARTMENT STANDARDS.
9. DUCTILE IRON PIPES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C-600.
10. ALL MECHANICAL JOINTS ARE TO BE RESTRAINED. FITTINGS SHALL BE RESTRAINED BY MECHANICAL JOINT RESTRAINTS. THE PIPE CONNECTED TO THE FITTING SHALL BE RESTRAINED PER THE MANUFACTURER'S SCHEDULE.
11. THE CONTRACTOR SHALL MARK THE LOCATION OF THE PROPOSED WATER MAIN AT LEAST 48 HOURS PRIOR TO EXCAVATING. EXCAVATION SHALL NOT PROCEED WITHOUT AUTHORIZATION BY THE ENGINEER.
12. ALL WATER MAINS, HYDRANT BRANCHES, AND SERVICES SHALL HAVE UTILITY WARNING TAPE. THE TAPE SHALL BE BURIED APPROXIMATELY 2 FEET BELOW FINISHED GRADE.
13. BACKFILL SHALL BE COMPACTED TO 95 PERCENT OF THE STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698. COMPACTION EQUIPMENT USED MUST BE SPECIFICALLY DESIGNED FOR COMPACTION. TAMPING WITH THE BACK OF THE BACK HOE BUCKET IS UNACCEPTABLE COMPACTION.
14. ALL WATER SERVICES SHALL BE 1" DIA. COPPER TUBING TYPE K, SOFT TEMPER CONFORMING TO ASTM B88 UNLESS OTHERWISE NOTED.
15. DEPRESS WATER MAIN UNDER EXISTING SERVICES AND HYDRANT BRANCHES TO MAINTAIN 5'-0" OF COVER.
16. ALL WATER MAINS SHALL BE LAID PER THE PLANS TO MAINTAIN THE MAXIMUM SEPARATION FROM EXISTING OR PROPOSED SANITARY SEWER. DISTANCE SHALL BE MEASURED EDGE TO EDGE.
17. IDENTIFY EACH PIPE LENGTH & FITTING CLEARLY WITH MANUFACTURE'S NAME & TRADEMARK. NOMINAL PIPE SIZE & MATERIAL DESIGNATION.
18. ALL WATER MAINS & SERVICE PIPES SHALL BE LAID IN A TRENCH SEPARATE FROM ANY OTHER UTILITY (GAS, ELECTRIC, TELEPHONE, ETC.) SHALL BE A MINIMUM NO LESS THAN FIVE (5) FEET FROM ANOTHER UTILITY.
19. ALL MATERIAL SHALL BE IN ACCORDANCE WITH CITY/TOWN WATER DEPARTMENT "RULES & REGULATIONS". ALL WORK TO BE PERFORMED IN ACCORDANCE WITH CITY/TOWN WATER DEPARTMENT "SPECIFICATIONS". CITY/TOWN WATER DEPARTMENT STANDARDS SHALL TAKE PRECEDENCE OVER ANY REQUIREMENTS LISTED ABOVE.

CONSTRUCTION NOTES

1422 Main Street
Agawam, MA
Map K4 Block I Parcels 5, 6, 7, & 13



PREPARED FOR:

Kenny Patel
Shield Hotels
63 Myron Street
West Springfield MA.

ISSUANCE DATE: May 23, 2024

REVISIONS:	DATE:

DRAFTED BY: M.B. & J.T.

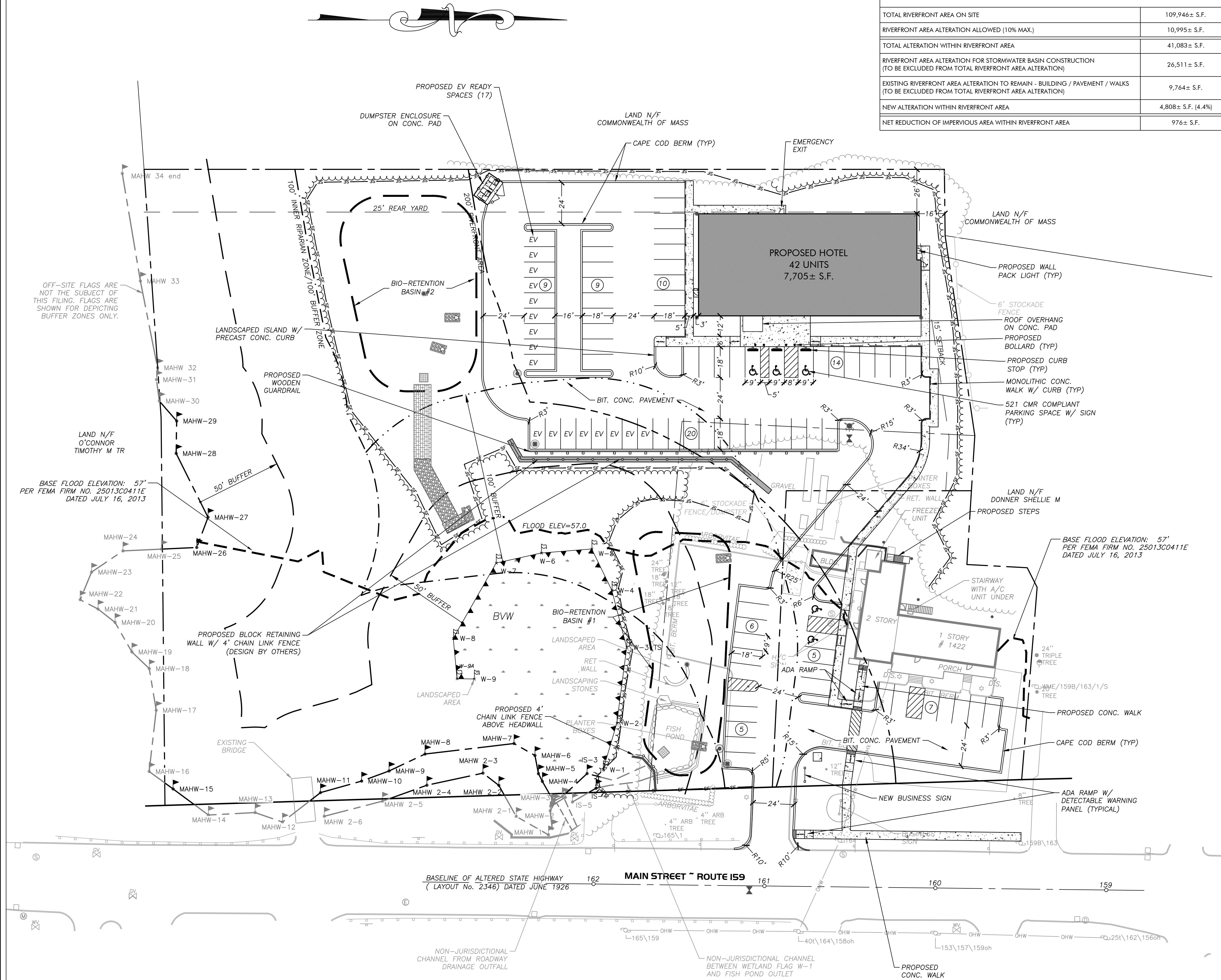
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SCALE: As Noted

RLA PROJ. NUMBER: 231007

DRAWING#	REV.
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RIVERFRONT AREA SUMMARY	
TOTAL RIVERFRONT AREA ON SITE	109,946± S.F.
RIVERFRONT AREA ALTERATION ALLOWED (10% MAX.)	10,995± S.F.
TOTAL ALTERATION WITHIN RIVERFRONT AREA	41,083± S.F.
RIVERFRONT AREA ALTERATION FOR STORMWATER BASIN CONSTRUCTION (TO BE EXCLUDED FROM TOTAL RIVERFRONT AREA ALTERATION)	26,511± S.F.
EXISTING RIVERFRONT AREA ALTERATION TO REMAIN - BUILDING / PAVEMENT / WALKS (TO BE EXCLUDED FROM TOTAL RIVERFRONT AREA ALTERATION)	9,764± S.F.
NEW ALTERATION WITHIN RIVERFRONT AREA	4,808± S.F. (4.4%)
NET REDUCTION OF IMPERVIOUS AREA WITHIN RIVERFRONT AREA	976± S.F.

ZONING REVIEW - Business A (BA)		
TYPE (MINIMUM)	REQUIRED	PROPOSED
AREA	NONE	4.04 ACRES
FRONTAGE	20 FT	501± FT
FRONT YARD	35 FT	273 FT
SIDE YARD	15 FT	16 FT
REAR YARD	25 FT	26 FT
HEIGHT (MAX)	45 FT (3 STORIES)	3 STORIES
BUILDING COVERAGE (MAX)	50%	<5%
PARKING	85*	85

*PARKING GUIDELINES:
HOTEL: 42 ROOMS = 42 SPACES
10 EMPLOYEES = 5 SPACES
HOTEL TOTAL: 47 SPACES
RESTAURANT: 1,320 S.F. FLOOR AREA FOR PATRON USE / 1 SPACE PER 50 S.F. = 27 SPACES
480 S.F. GROUND AREA FOR PATRON USE OUTSIDE THE ESTABLISHMENT (FRONT PORCH) / 1 SPACE PER 80 S.F. = 6 SPACES
10 EMPLOYEES = 5 SPACES
RESTAURANT TOTAL: 38 SPACES
TOTAL REQUIRED = 85 SPACES (20% EV READY = 17 EV READY SPACES)

NOTES

- THE RECORD OWNER OF THE SUBJECT PARCEL IS RENU RAYONIA AND RAJESH RAYONIA AND DEBRA ANN DESMOND. SEE HAMDEN COUNTY REGISTRY OF DEEDS BOOK 13612 PAGE 330 AND BOOK 18614 PAGE 149.
- THE PROPERTY LINES SHOWN HEREON ARE BASED UPON A PLAN TITLED, "BASE MAP" PREPARED BY D.L. BEAN INC, DATED APRIL 2012.
- THE EXISTING BUILDING(S) SHOWN HEREON ARE BASED ON AN APPROXIMATE MEASUREMENT OF THE OUTSIDE PERIMETER OF THE EXISTING STRUCTURES. THE ACTUAL LOCATION OF THE EXISTING BUILDING WALLS AND CORNERS SHOULD BE VERIFIED IN THE FIELD PRIOR TO ANY CONSTRUCTION WORK THAT WOULD ADJUT OR TAKE PLACE ADJACENT TO THE EXISTING BUILDING(S). IF THE PLAN HEREON IS USED FOR CONSTRUCTION LAYOUT PURPOSES, THE PARTIES CONDUCTING LAYOUT SHALL CONTACT R. LEVESQUE ASSOCIATES INC. PRIOR TO SAID LAYOUT TO DETERMINE PROPER CONTROL. PLEASE NOTE WHILE THE BUILDING(S) ARE SHOWN TO BE SQUARE, IT SHOULD NOT BE ASSUMED THAT THE WALLS ARE SQUARE OR PLUMB. R. LEVESQUE ASSOCIATES TAKES NO RESPONSIBILITY FOR THIRD PARTY LAYOUT OF THE PLAN SHOWN HEREON.
- THIS PLAN HAS BEEN PREPARED FOR SITE PLANNING PURPOSES AND SHALL NOT BE USED FOR THE CONVEYANCE OF LAND OR FOR ANY OTHER USE.
- SUBJECT PARCELS CONTAINS 4.04 ACRES.
- THE SUBJECT PROPERTIES SHOWN HEREON MAY BE SUBJECT TO RIGHTS AND EASEMENTS AS CONTAINED IN THE VARIOUS DEEDS OF RECORD DESCRIBING SAID PROPERTIES. THE LOCATION AND EXTENT OF ANY SUCH RIGHTS AND EASEMENTS IS NOT THE SUBJECT OF THIS PLAN.
- WETLANDS AND M.A.H.W. DELINEATED BY R. LEVESQUE ASSOCIATES INC IN MARCH 2014.
- THE EXISTING CONDITIONS INFORMATION SHOWN IS BASED UPON A TOPOGRAPHIC SURVEY PERFORMED BY R LEVESQUE ASSOCIATES, INC. MARCH 2014 AND DECEMBER 2023.
- THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION, AVAILABLE RECORD DATA, TOWN OF AGAWAM GIS. R. LEVESQUE ASSOCIATES, INC. MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. R LEVESQUE ASSOCIATES, INC. FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN HERE ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION.
- ADJACENT PROPERTY LINES AND ABUTTERS SHOWN HEREON ARE REFERENCED FROM THE TOWN OF AGAWAM GIS MAPPING.
- SUBJECT PARCEL IS ZONED BUSINESS A AND RESIDENCE A-2 ACCORDING TO THE TOWN OF GIS ZONING MAP.
- THE SUBJECT PARCEL IS LOCATED WITHIN A SPECIAL FLOOD ZONE AREA ACCORDING TO FLOOD INSURANCE RATE MAP NUMBER 25013C0411E - EFFECTIVE DATE: JULY 16, 2013. FLOOD ELEVATION 57'
- THE SUBJECT PROPERTY IS NOT LOCATED WITHIN NATURAL HERITAGE & ENDANGERED SPECIES PROGRAM (NHESP) JURISDICTION.
- TEST PIT LOCATION SHOWN HEREON PERFORMED BY R. LEVESQUE ASSOCIATES INC. ON 12-27-2023
- PROPOSED 12" CL 50 D.I. TAKEN FROM PLAN ENTITLED MAIN STREET WATER MAIN IMPROVEMENTS DATED 2-24-2000.

LAYOUT NOTES

- SITE CONTRACTOR SHALL REFER TO REMAINING PLAN SET FOR INFORMATION REGARDING SITE LAYOUT.
- IT SHALL BE THE SITE CONTRACTORS RESPONSIBILITY TO CROSS REFERENCE INFORMATION CONTAINED IN OTHER SHEETS WITH SITE INFORMATION SHOWN HEREON.
- PRIOR TO SUBMITTING THEIR BID FOR CONSTRUCTION, THE SITE CONTRACTOR SHALL COMMUNICATE ANY DISCREPANCIES BETWEEN THE PROPOSED DESIGN AND THE SAID SPECIFICATIONS WITH THE PROJECT PROPONENT AND LANDSCAPE ARCHITECT/ENGINEER. SHOULD THE SITE CONTRACTOR FAIL TO COMMUNICATE ANY DISCREPANCIES, HE/SHE SHALL BE RESPONSIBLE FOR ANY COSTS RESULTING FROM SAID DISCREPANCY.

SIGNAGE AND PAVEMENT MARKING NOTES

- STRIPE ALL PARKING AREAS AS SHOWN, INCLUDING PARKING SPACES, STOP BARS, CROSSWALKS, AND ACCESSIBLE ROUTE MARKINGS AND SYMBOLS USING WHITE TRAFFIC PAINT. PAINTED ISLANDS, FIRE LANES, AND TRAVEL WAY CENTERLINES SHALL BE PAINTED USING YELLOW TRAFFIC PAINT. ALL TRAFFIC PAINT SHALL CONFORM TO AASHTO M248 TYPE "N".
- STOP BARS SHALL BE 12" WIDE (WHITE).
- ALL PARKING STALL LINES SHALL BE 4" WIDE (WHITE).
- ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", MASSDOT, STATE BUILDING CODE AND ADA REQUIREMENTS, AND AS SHOWN ON THE PLANS & DETAILS.

ACCESSIBILITY NOTES

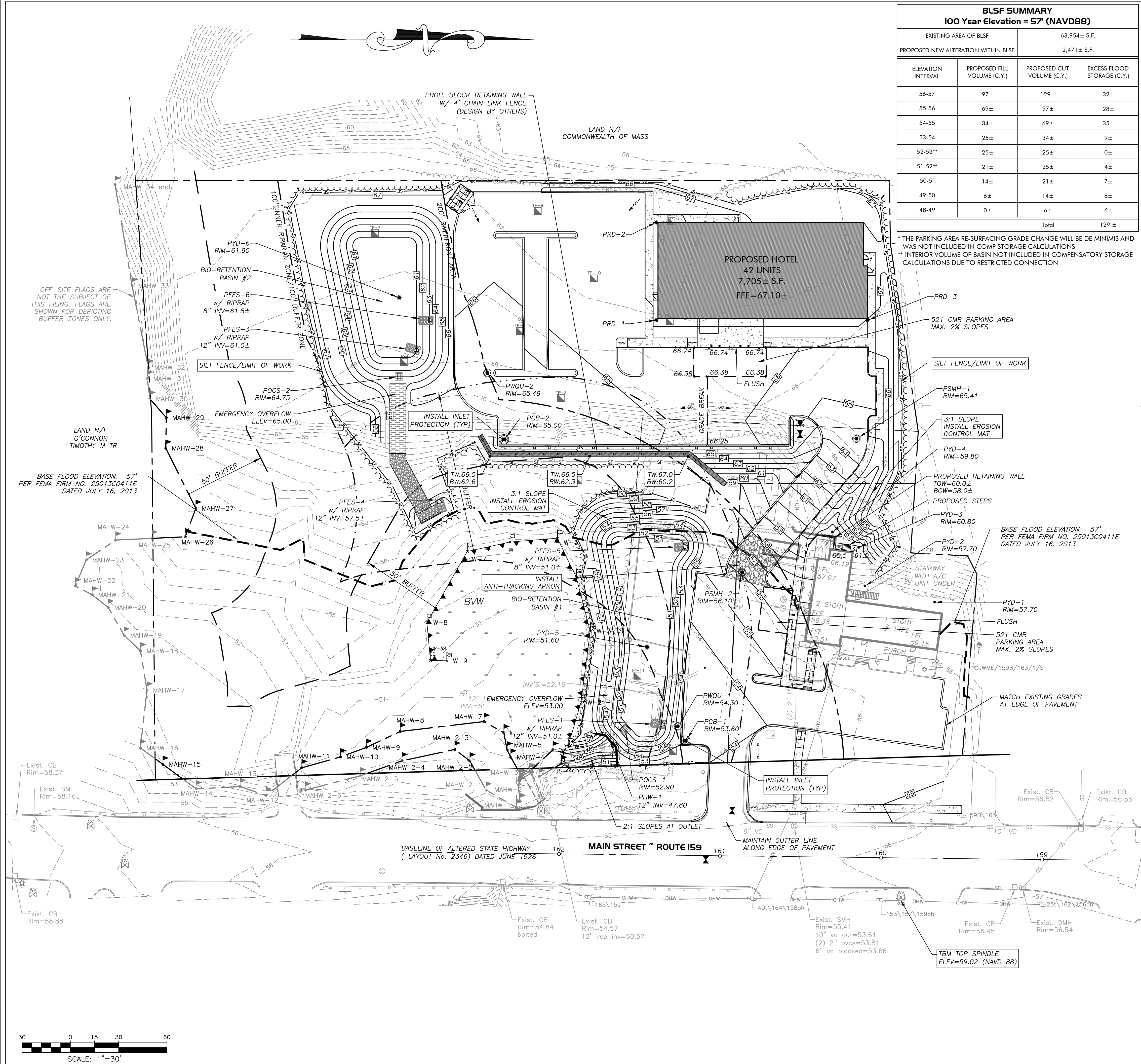
- ALL ACCESSIBLE ROUTES, TRANSITIONS, AND ACCESSIBLE PARKING/LOADING AREAS, INCLUDING ALL ENTRANCES TO BUILDING, SHALL ADHERE TO 521 CMR.
- SHOULD THE ARCHITECT PROVIDE ADDITIONAL ENTRANCES OR MEANS OF EGRESS, ADDITIONAL ACCESSIBLE ROUTES MAY BE REQUIRED.
- IT IS THE RESPONSIBILITY OF THE ARCHITECT AND CONTRACTOR TO NOTIFY THE ENGINEER AND LANDSCAPE ARCHITECT OF ANY CHANGES TO THE PROPOSED BUILDING THAT WOULD AFFECT THE ACCESSIBILITY REQUIREMENTS OF THE PROPOSED SITE.
- THE CONTRACTOR SHALL REVIEW IN DETAIL THE REQUIREMENTS OF 521 CMR AND SHALL BE RESPONSIBLE FOR CONFORMANCE WITH SAID REGULATIONS.

PERMITTING
NOT FOR CONSTRUCTION

RLA
R LEVESQUE ASSOCIATES INC.
Landscape Architects
Civil Engineers - Land Surveyors
Environmental Consultants
ph: 413.568.0985 fax: 413.568.0986
40 School Street
Westfield, MA 01085
rlaland.com

LAYOUT & MATERIALS PLAN
1422 Main Street
Agawam, MA
Map K4 Block I Parcels 5, 6, 7, & 13

MASSACHUSETTS REGISTERED LANDSCAPE ARCHITECT
NO. 1298
10/18/24
PREPARED FOR:
Kenny Patel
Shield Hotels
63 Myron Street
West Springfield, MA.
ISSUANCE DATE: May 23, 2024
REVISIONS:
A. Town comments, updated delineation 8/1/24
B. Peer review comments 9/9/24
C. Engineering & peer review comments 9/24/24
D. Layout revised per fire dept. review 10/18/24
DRAFTED BY: M.B. & J.T.
UNAUTHORIZED ALTERATION OF THIS DOCUMENT IS A VIOLATION OF MASSACHUSETTS STATE LAW
SCALE: As Noted
RLA PROJ. NUMBER: 231007
DRAWING# **REV.**
C-4 D



BLSF SUMMARY			
100 Year Elevation = 57' (NAVD88)			
EXISTING AREA OF BLSF		63,954± S.F.	
PROPOSED NEW ALTERATION WITHIN BLSF		2,471± S.F.	
ELEVATION INTERVAL	PROPOSED FILL VOLUME (C.Y.)	PROPOSED CUT VOLUME (C.Y.)	EXCESS FLOOD STORAGE (C.Y.)
56-57	97±	129±	32±
55-56	69±	97±	28±
54-55	34±	69±	35±
53-54	25±	34±	9±
52-53**	25±	25±	0±
51-52**	21±	25±	4±
50-51	14±	21±	7±
49-50	6±	14±	8±
48-49	0±	6±	6±
Total		129 ±	

* THE PARKING AREA RE-SURFACING GRADE CHANGE WILL BE DE MINIMIS AND WAS NOT INCLUDED IN COMP STORAGE CALCULATIONS
** INTERIOR VOLUME OF BASIN NOT INCLUDED IN COMPENSATORY STORAGE CALCULATIONS DUE TO RESTRICTED CONNECTION

SHORT-TERM EROSION CONTROL MAINTENANCE

1. THE CONTRACTOR OR SUBCONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING EACH CONTROL SHOWN ON THE SEDIMENTATION AND EROSION CONTROL PLAN.
2. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF-SITE SEDIMENTATION IF DEEMED NECESSARY BY ON-SITE INSPECTION.
3. EFFECTIVE EROSION CONTROL MEASURES SHALL BE INITIATED PRIOR TO THE COMMENCEMENT OF CLEARING, GRADING, EXCAVATION, OR OTHER OPERATIONS THAT WILL DISTURB THE NATURAL PROTECTION.
4. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD, AND THE INSPECTION SHALL BE DOCUMENTED IN WRITING. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY.
5. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO AVOID EXCESS EROSION OF THE SITE DUE TO THE CONSTRUCTION OF THIS PROJECT.
6. SILT SHALL BE REMOVED FROM BEHIND BARRIERS IF GREATER THAN 6-INCHES DEEP OR AS NEEDED. SEDIMENT THAT IS COLLECTED IN STRUCTURES SHALL BE DISPOSED OF PROPERLY AND COVERED IF STORED ON-SITE.
7. DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION.
8. ALL DITCHES SHALL BE STABILIZED AS SOON AS IS PRACTICABLE TO MINIMIZE EROSION.
9. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES IN A GOOD, WORKING STATE OF REPAIR UNTIL THEIR USE IS NO LONGER WARRANTED. AT THAT TIME, THE EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF SO AS TO CAUSE NO OFF-SITE SILTATION.
10. INSPECT AND MAINTAIN CONSTRUCTION ENTRANCE STONE SUCH THAT SEDIMENT DOES NOT TRACK ONTO THE STREET. ANY SEDIMENT TRACKED ONTO THE STREET SHALL BE CLEANED DAILY.
11. AFTER CATCH BASINS HAVE BEEN CONSTRUCTED AND THE SITE HAS BEEN PAVED, THE CONTRACTOR SHALL PROTECT THE INLETS BY CONSTRUCTING INLET PROTECTION AS SHOWN ON THE PLANS. INLET PROTECTION TO REMAIN IN PLACE AND MAINTAINED UNTIL DISTURBED AREAS HAVE BEEN STABILIZED, LOAMED AND SEEDED.
12. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN SUBSTANTIALLY STABILIZED. AFTER REMOVAL OF MEASURES, DISTURBED AREAS SHALL BE REGRADED AND STABILIZED AS NECESSARY.
13. THIS PLAN IS PROVIDED AS A BASIS FOR THE INITIAL SEDIMENTATION AND EROSION CONTROL MEASURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UPDATE AND EXPAND THIS PLAN AS SITE CONDITIONS DICTATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT THE OCCURRENCE OF SILTATION TO WETLAND RESOURCE AREAS AND THE MOVEMENT OF SEDIMENT BEYOND THE SITE BOUNDARIES.

ACCESSIBILITY NOTES

1. ALL ACCESSIBLE ROUTES, TRANSITIONS, AND ACCESSIBLE PARKING/LOADING AREAS, INCLUDING ALL ENTRANCES TO BUILDING, SHALL ADHERE TO 521 CMR.
2. SHOULD THE ARCHITECT PROVIDE ADDITIONAL ENTRANCES OR MEANS OF EGRESS, ADDITIONAL ACCESSIBLE ROUTES MAY BE REQUIRED.
3. IT IS THE RESPONSIBILITY OF THE ARCHITECT AND CONTRACTOR TO NOTIFY THE ENGINEER AND LANDSCAPE ARCHITECT OF ANY CHANGES TO THE PROPOSED BUILDING THAT WOULD AFFECT THE ACCESSIBILITY REQUIREMENTS OF THE PROPOSED SITE.
4. THE CONTRACTOR SHALL REVIEW IN DETAIL THE REQUIREMENTS OF 521 CMR AND SHALL BE RESPONSIBLE FOR CONFORMANCE WITH SAID REGULATIONS.

CONSTRUCTION NOTES

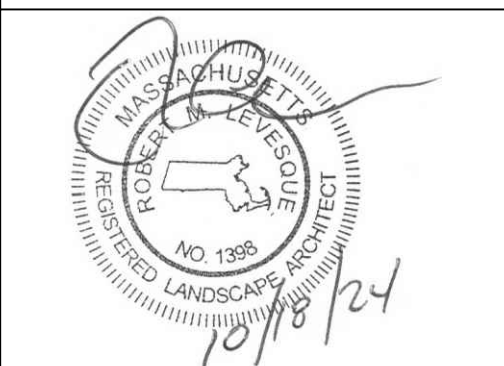
1. THE CONTRACTOR/OWNER/DEVELOPER TO BE AWARE THAT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND AN ILLICIT DISCHARGE COMPLIANCE STATEMENT ARE REQUIRED PRIOR TO ANY LAND DISTURBANCE.
2. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON SURFACE FEATURES AS LOCATED BY SURVEY AND AVAILABLE RECORD DATA AND ARE APPROXIMATE. ACTUAL FIELD LOCATIONS SHOULD BE VERIFIED WITH THE APPROPRIATE UTILITY COMPANY AND/OR MUNICIPAL DEPARTMENT PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO NOTIFY DIG SAFE A MINIMUM OF 72 HOURS PRIOR TO START OF CONSTRUCTION ACCORDING TO MA GENERAL LAWS.
4. APPROVED PLANS TO BE ON SITE AT ALL TIMES.
5. CHANGES TO THIS PLAN MAY OCCUR AS UNFORESEEN CONDITIONS ARISE. ALL CHANGES TO BE APPROVED BY DESIGN ENGINEER, FIELD INSPECTOR AND CITY/TOWN ENGINEER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND SAFETY OF TRAFFIC ON THE PUBLIC AND PRIVATE WAYS AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
7. CONTRACTOR SHALL PROTECT ALL SLOPES, VEGETATION, PAVING, WALKS, AND IMPROVEMENTS OUTSIDE THE AREAS TO BE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
8. TREES, BRUSH AND STUMPS REMOVED BY CLEARING AND GRUBBING OPERATIONS SHALL BE TRANSPORTED OFF THE PROJECT SITE TO AN APPROVED DISPOSAL LOCATION.
9. ALL PAVEMENT MARKINGS CHANGED, ALTERED OR REMOVED SHALL BE REAPPLIED.
10. ALL CONSTRUCTION METHODS TO CONFORM TO AGAWAM PLANNING BOARD REGULATIONS AND DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.
11. AGAWAM DEPARTMENT OF PUBLIC WORKS APPROVAL IS NOT TO BE CONSTRUED AS AN ALL INCLUSIVE APPROVAL AS OTHER APPROVALS MAY BE NECESSARY, I.E. TOWN ENGINEER, CONSERVATION, FIRE DEPARTMENT, WATER DEPARTMENT, ETC.
12. EROSION CONTROL MEASURES TO BE IN PLACE PRIOR TO START OF CONSTRUCTION.

GRADING & DRAINAGE NOTES

1. SITE CONTRACTOR SHALL REFER TO REMAINING PLAN SET FOR INFORMATION REGARDING GRADING AND DRAINAGE.
2. IT SHALL BE THE SITE CONTRACTORS RESPONSIBILITY TO CROSS REFERENCE INFORMATION CONTAINED IN OTHER SHEETS WITH GRADING AND DRAINAGE INFORMATION SHOWN HEREON.
3. PRIOR TO SUBMITTING A BID FOR CONSTRUCTION, THE SITE CONTRACTOR SHALL COMMUNICATE ANY DISCREPANCIES BETWEEN THE PROPOSED DESIGN AND THE SPECIFICATIONS WITH THE PROJECT PROPONENT AND LANDSCAPE ARCHITECT/ENGINEER. SHOULD THE SITE CONTRACTOR FAIL TO COMMUNICATE ANY DISCREPANCIES, HE/SHE SHALL BE RESPONSIBLE FOR ANY COSTS RESULTING FROM SAID DISCREPANCY.
4. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT/ENGINEER OF ANY UNEXPECTED CONDITIONS THAT ARE ENCOUNTERED DURING CONSTRUCTION.
5. ONCE DRAINAGE SYSTEM IS INSTALLED AND FUNCTIONING, THE OWNER/SITE CONTRACTOR SHALL COORDINATE WITH R LEVESQUE ASSOCIATES, INC. (RLA) TO CONDUCT A POST-CONSTRUCTION ANALYSIS OF THE DRAINAGE SYSTEM DURING ACTUAL STORM EVENTS TO DETERMINE THE FUNCTIONALITY OF THE INSTALLED DRAINAGE SYSTEM DURING SAID EVENTS. SHOULD THE DRAINAGE SYSTEM NOT FUNCTION AS DESIGNED UNDER REAL WORLD CONDITIONS, RLA WILL RECOMMEND ADJUSTMENTS TO THE DRAINAGE SYSTEM TO BE IMPLEMENTED BY THE OWNER/SITE CONTRACTOR.
6. ALL UTILITY CONSTRUCTION SHALL CONFORM TO THEIR RESPECTIVE CITY DEPARTMENT SPECIFICATIONS.
7. CONTRACTOR TO ACHIEVE POSITIVE DRAINAGE AWAY FROM PROPOSED BUILDINGS.

RLA
R LEVESQUE ASSOCIATES INC.
Landscape Architects
Civil Engineers · Land Surveyors
Environmental Consultants
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40 School Street
Westfield, MA 01085
rlaland.com

GRADING, EROSION & SEDIMENTATION CONTROL PLAN
1422 Main Street
Agawam, MA
Map K4 Block I Parcels 5, 6, 7, & 13



PREPARED FOR:

Kenny Patel
Shield Hotels
63 Myron Street
West Springfield MA.

ISSUANCE DATE: May 23, 2024

REVISIONS:	DATE:
A. Town comments, updated delineation	8/1/24
B. Peer review comments	9/9/24
C. Engineering & peer review comments	9/24/24
D. Layout revised per fire, dept. review	10/18/24

DRAFTED BY: M.B. & J.T.

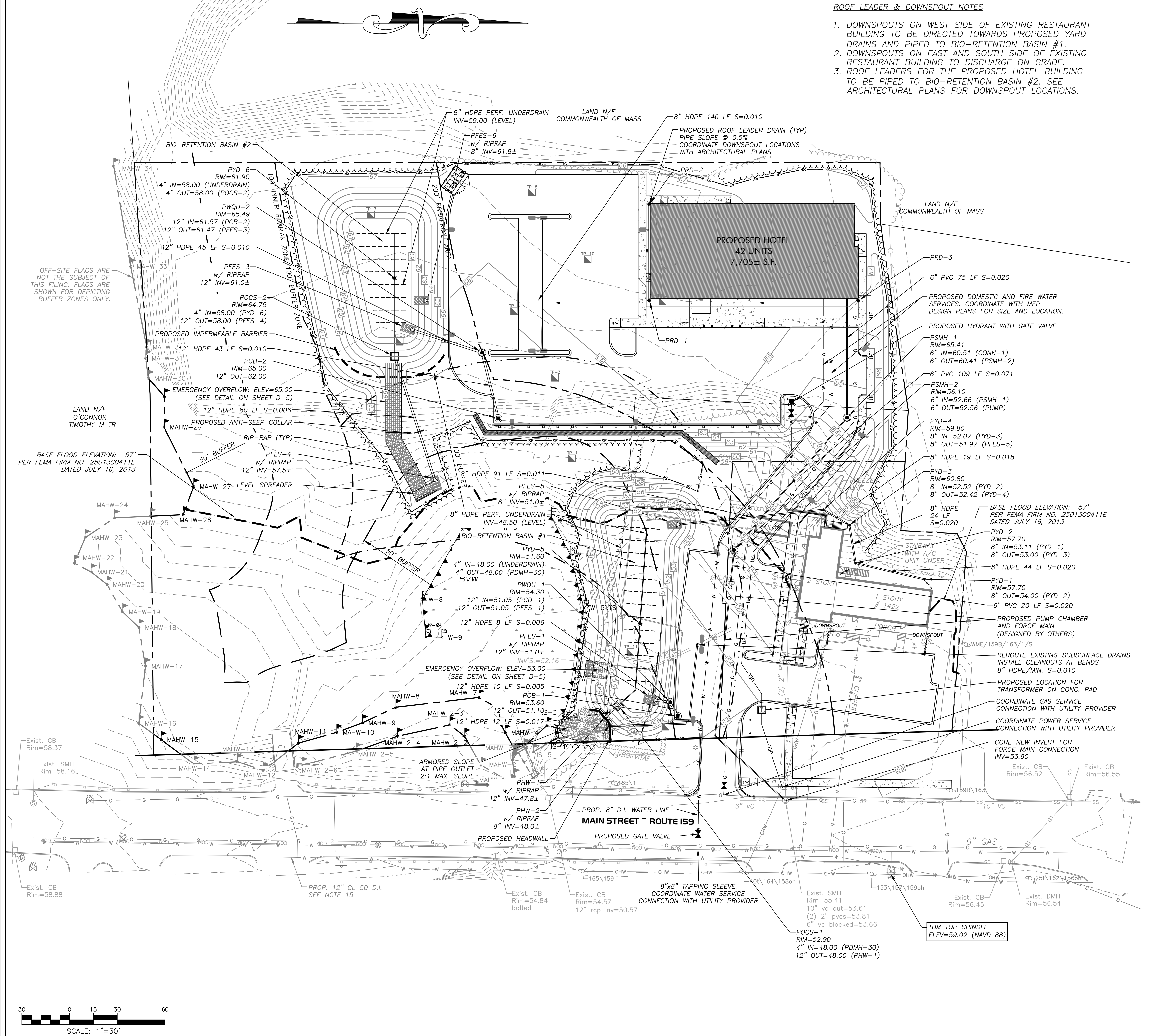
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SCALE: As Noted

RLA PROJ. NUMBER: 231007

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C-5	D

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RLA
R LEVESQUE
ASSOCIATES INC.

Landscape Architects
Civil Engineers - Land Surveyors
Environmental Consultants

ph: 413.568.0985 fax: 413.568.0986

40 School Street
Westfield, MA 01085
rlaland.com

DRAINAGE & UTILITIES PLAN

1422 Main Street
Agawam, MA
Map K4 Block I Parcels 5, 6, 7, & 13



PREPARED FOR:

Kenny Patel
Shield Hotels
63 Myron Street
West Springfield MA.

ISSUANCE DATE: May 23, 2024

REVISIONS:	DATE:
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B. Peer review comments	9/9/24
C. Engineering & peer review comments	9/24/24
D. Layout revised per fire dept. review	10/18/24

DRAFTED BY: M.B. & J.T.

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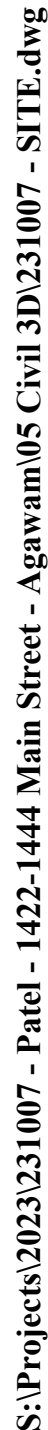
SCALE: As Noted

RLA PROJ. NUMBER: 231007

DRAWING# REV.

C-6 D

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BIORETENTION AREA PLANT LIST				
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE/SPACING
AI	18	ALNUS INCANA	SPECKLED ALDER	2'-3" HT.
CA	14	CORNUS AMOMUM	SILKY DOGWOOD	2'-3" HT.
IV	14	ILEX VERTICILLATA	WINTERBERRY	2'-3" HT.
SC	11	SAMBUCUS CANADENSIS	ELDERBERRY	2'-3" HT.
VC	18	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	2'-3" HT.
VD	12	VIBURNUM DENTATUM	NORTHARROWOOD	2'-3" HT.

LANDSCAPE NOTES

1. SITE CONTRACTOR SHALL REFER TO SHEET C-1, C-2, DETAIL SHEETS AND REMAINING PLAN SET FOR INFORMATION REGARDING LANDSCAPING.
2. IT SHALL BE THE SITE CONTRACTOR'S RESPONSIBILITY TO CROSS-REFERENCE INFORMATION CONTAINED IN OTHER SHEETS WITH THE LANDSCAPE INFORMATION SHOWN HEREON.
3. ALL SITE PLANTINGS ARE TO MEET OR EXCEED THE MINIMUM SPECIFICATIONS DETAILED IN THE AFOREMENTIONED NOTES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE SPECIFICATIONS FOR EACH INDIVIDUAL PLANTING AND SOURCE IT APPROPRIATELY.
4. PRIOR TO SUBMITTING THEIR BID FOR CONSTRUCTION, THE SITE CONTRACTOR SHALL COMMUNICATE ANY DISCREPANCIES BETWEEN THE PROPOSED DESIGN AND SAID SPECIFICATIONS WITH THE PROJECT PROPONENT, LANDSCAPE ARCHITECT/ENGINEER. SHOULD THE SITE CONTRACTOR FAIL TO COMMUNICATE ANY DISCREPANCIES, HE/SHE SHALL BE RESPONSIBLE FOR ANY COSTS RESULTING FROM SAID DISCREPANCY.
5. LANDSCAPE CONTRACTOR SHALL HAVE EXCAVATING CONTRACTOR, "DIGSAFE", AND ANY APPLICABLE NON-[DIGSAFE] MEMBER UTILITIES MARK ALL UNDERGROUND UTILITIES AND PRIOR TO ANY PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND PROJECT PROPONENT IF ANY CONFLICTS ARISE AND STOP ALL WORK UNTIL CONFLICT IS RESOLVED.
6. BIOTRENTATION AREAS TO BE SEEDED WITH NEW ENGLAND WETLAND PLANTS "WETMIX" OR APPROVED EQUIVALENT.

**1422 Main Street
Agawam, MA
Map K4 Block I Parcels 5, 6, 7, & 13**



Kenny Patel
Shield Hotels
63 Myron Street
West Springfield MA

ISSUANCE DATE:

REVISIONS:	DATE:
A. Town comments, updated delineation	8/1/24
B. Peer review comments	9/9/24
C. Engineering & peer review comments	9/24/24
D. Layout revised per fire. dept. review	10/18/24

DRAFTED BY: M.B. & J.T.

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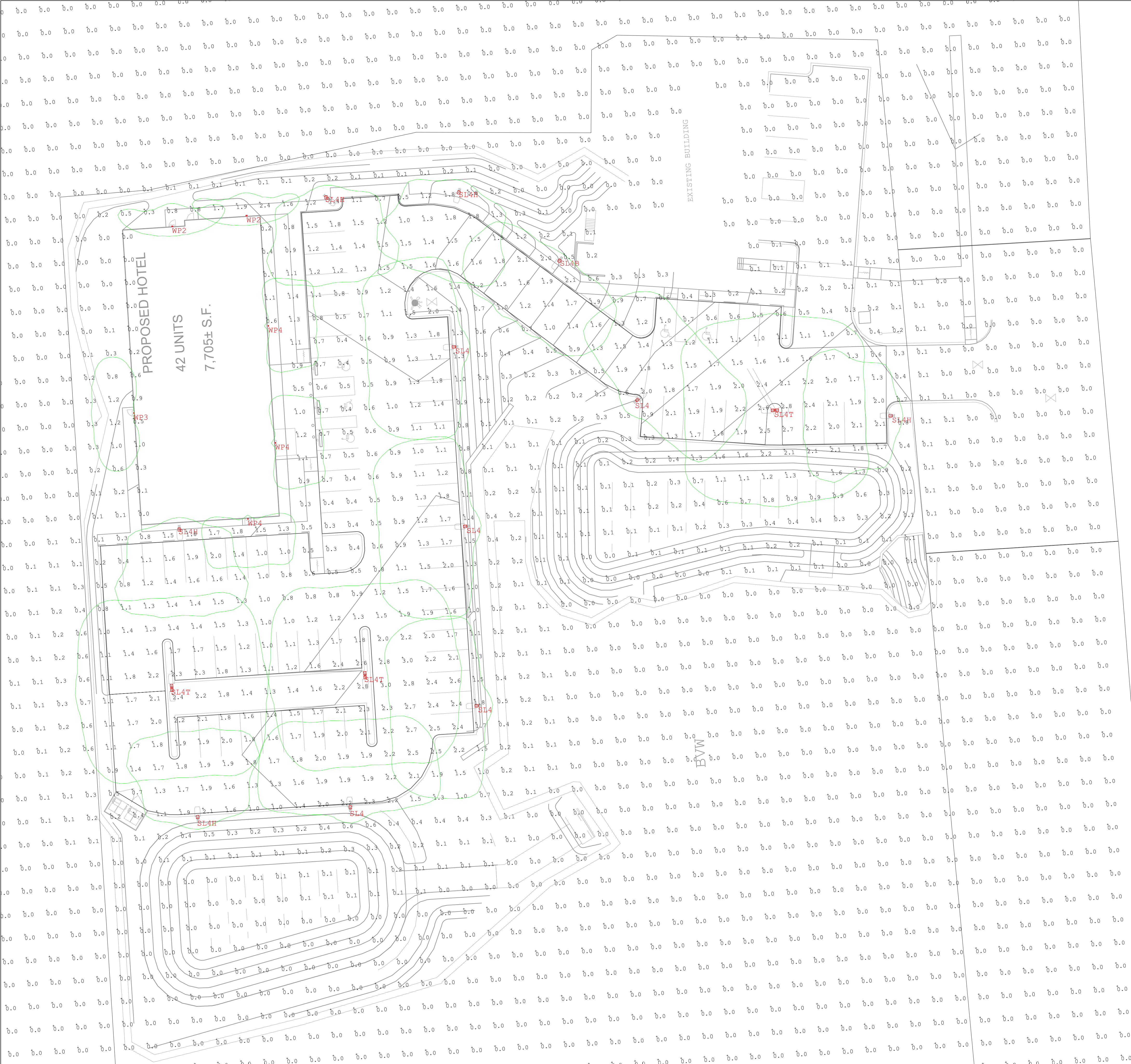
RLA PROJ. NUMBER: 231007

DRAWING#

REV

D

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Luminaire Schedule					
Qty	Label	Watts	Arrangement	LLF	Description
5	SL4	39.1	Single	0.900	Beacon VP-ST-1-36L-39-3K7-4W-UNV-A-x-x-x / MTD 16FT AFG
1	SL4B	45.5	Single	0.900	Beacon VP-ST-1-36L-39-3K7-4W-UNV-A-x-BC-x / MTD 16FT AFG
5	SL4H	39.1	Single	0.900	Beacon VP-ST-1-36L-39-3K7-4W-UNV-A-x-x-x / SHD-1-HSS-270-BSS-x / MTD 16FT AFG
3	SL4T	78.2	Back-Back	0.900	Beacon VP-ST-1-36L-39-3K7-4W-UNV-A-x-x-x / MTD 16FT AFG
2	WP2	12.9	Single	0.900	EXO LNC-SLU-3K2-x / MTD 8FT AFG
1	WP3	10.1	Single	0.900	Beacon RWL1-48L-10-3K7-3-UNV-x / MTD 10FT AFG
3	WP4	10.1	Single	0.900	Beacon RWL1-48L-10-3K7-4W-UNV-x / MTD 10FT AFG

Calculation Summary							
Label	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Height
CalcPts_1	Fc	0.19	3.0	0.0	N.A.	N.A.	0
BEYOND PROP LINE ROAD ACCESS	Fc	0.01	0.1	0.0	N.A.	N.A.	
BEYOND PROP LINES	Fc	0.00	0.7	0.0	N.A.	N.A.	
PARKING AND DRIVE LANES	Fc	1.47	3.0	0.3	4.90	10.00	

Project:
24140 - 1422 Main Street

Contact:
Myles Simon
Specification Sales
(860) 655-8099
msimon@illuminatene.com

illuminate
263 Winn Street
Burlington, MA 01803
(781) 935-8500
333 Pleasant Valley Road
South Windsor, CT 06074
(860) 282-0597

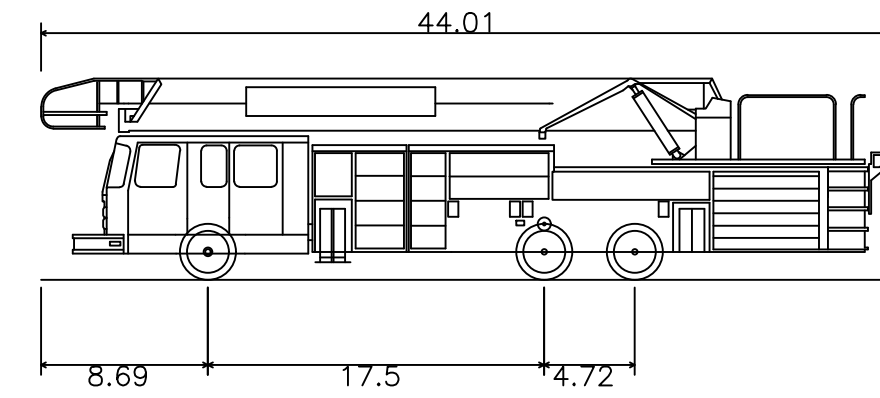
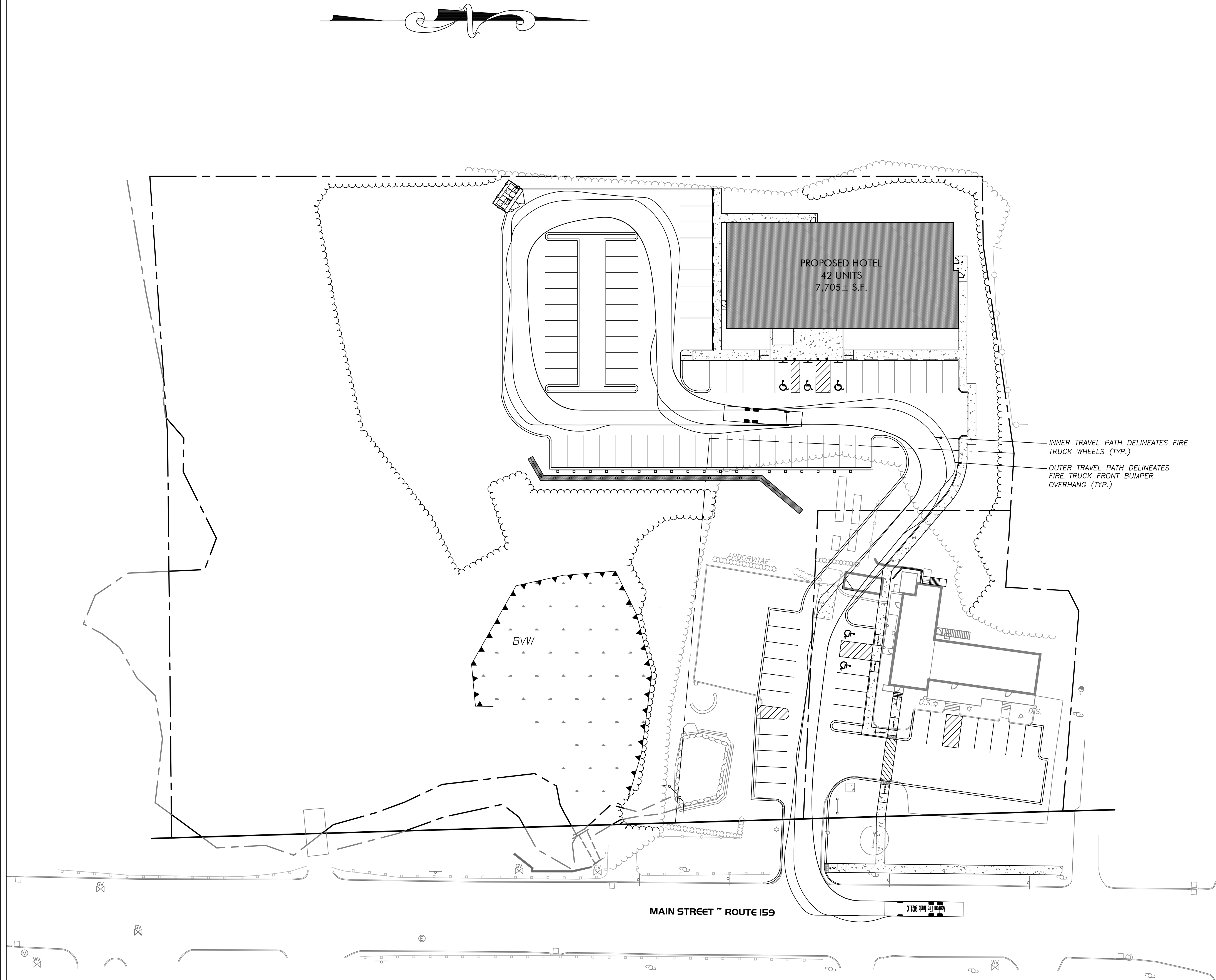
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Date: 10/16/2024
Revision:A
Scale: 1" = 20'-0"
Drawn By: AJS

Drawing Number:

L-1

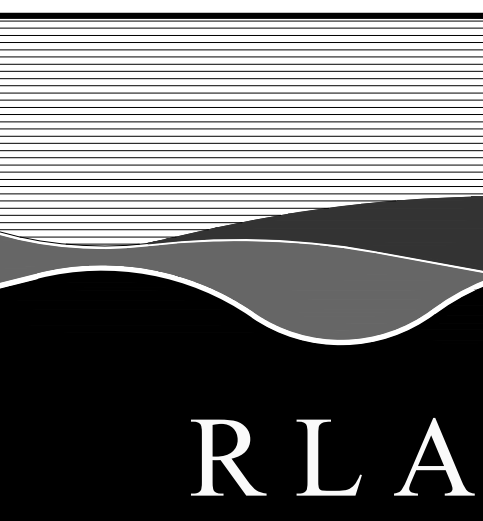
Sheet 1 of 1

S:\Projects\2023\231007 - Patel - 1422-1444 Main Street - Agawam\05 Civil\3D\231007 - AUTOTURN.dwg



Agawam Fire Truck 2024_C
Overall Length 44.010ft
Overall Width 8.330ft
Overall Body Height 10.482ft
Min Body Ground Clearance 0.913ft
Track Width 8.290ft
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 37.250ft

INNER TRAVEL PATH DELINEATES FIRE TRUCK WHEELS (TYP.)
OUTER TRAVEL PATH DELINEATES FIRE TRUCK FRONT BUMPER OVERHANG (TYP.)



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VEHICLE SWEEP PATH
1422 Main Street
Agawam, MA
Map K4 Block I Parcels 5, 6, 7, & 13

PREPARED FOR:
Kenny Patel
Shield Hotels
63 Myron Street
West Springfield MA.

ISSUANCE DATE: August 1, 2024	
REVISIONS:	DATE:
A. Layout updated	9/24/24
B. Layout revised per Fire Dept. review	10/10/24
C. Fire vehicle specs updated	10/11/24

DRAFTED BY: M.B. & J.T.

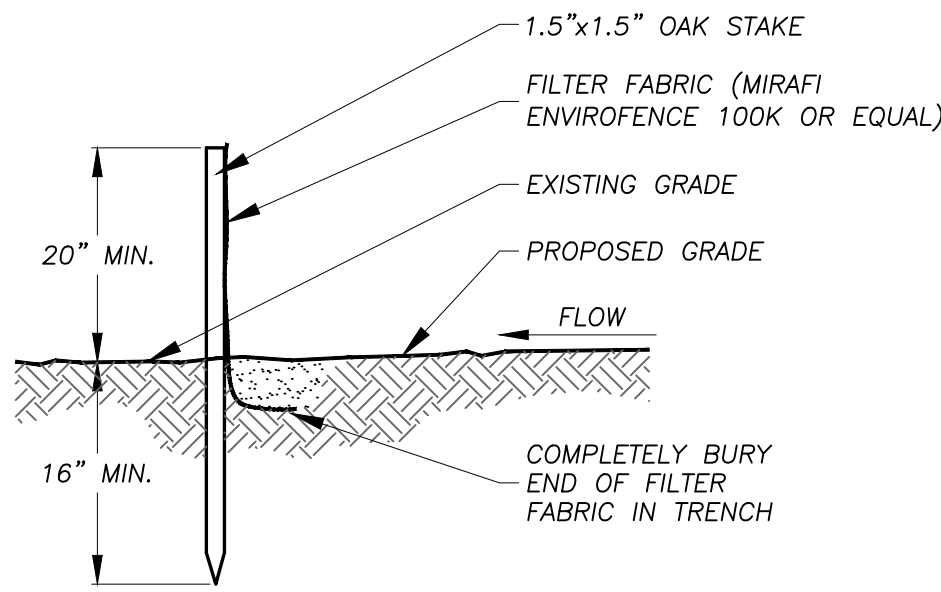
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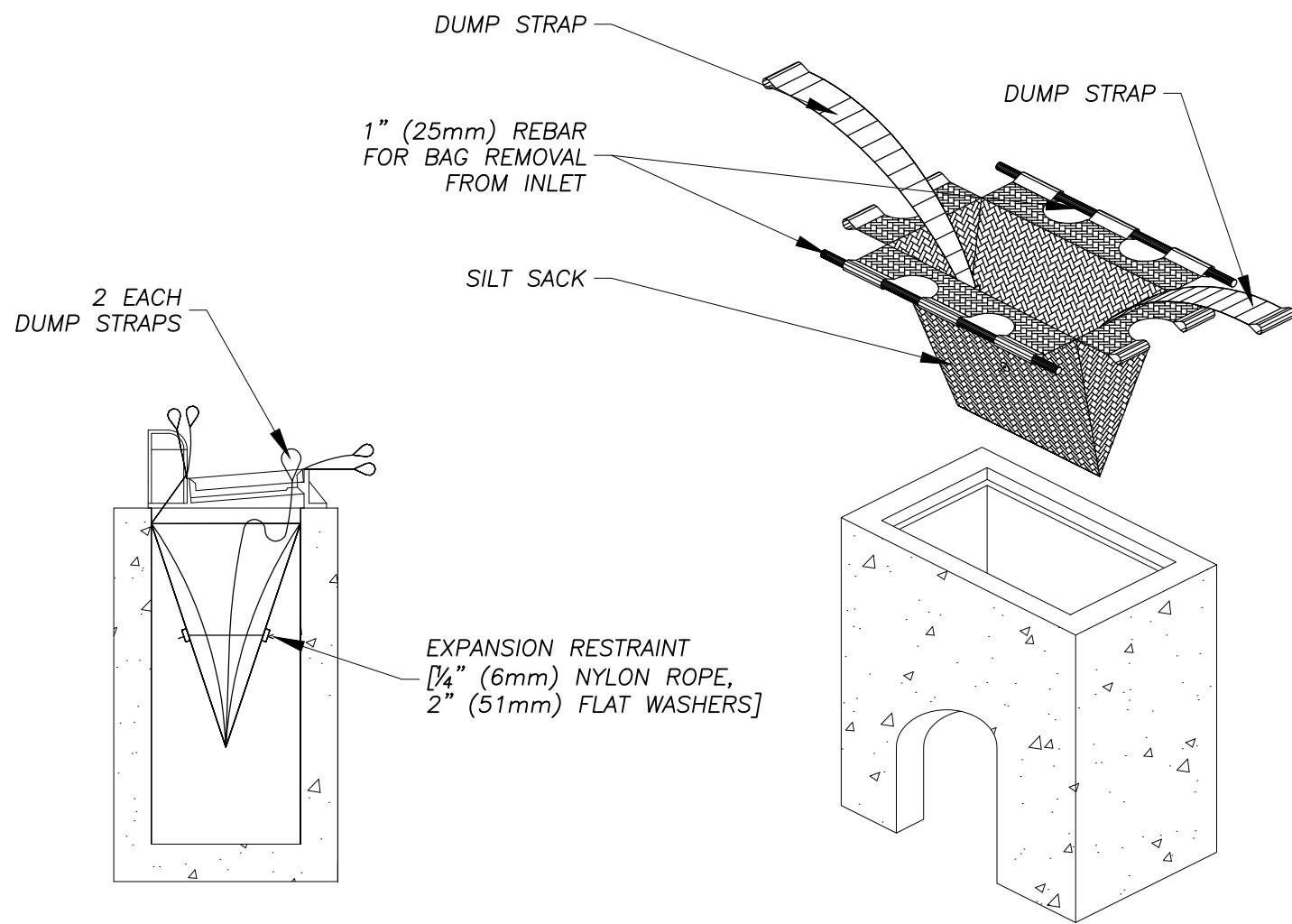
RLA PROJ. NUMBER: 231007

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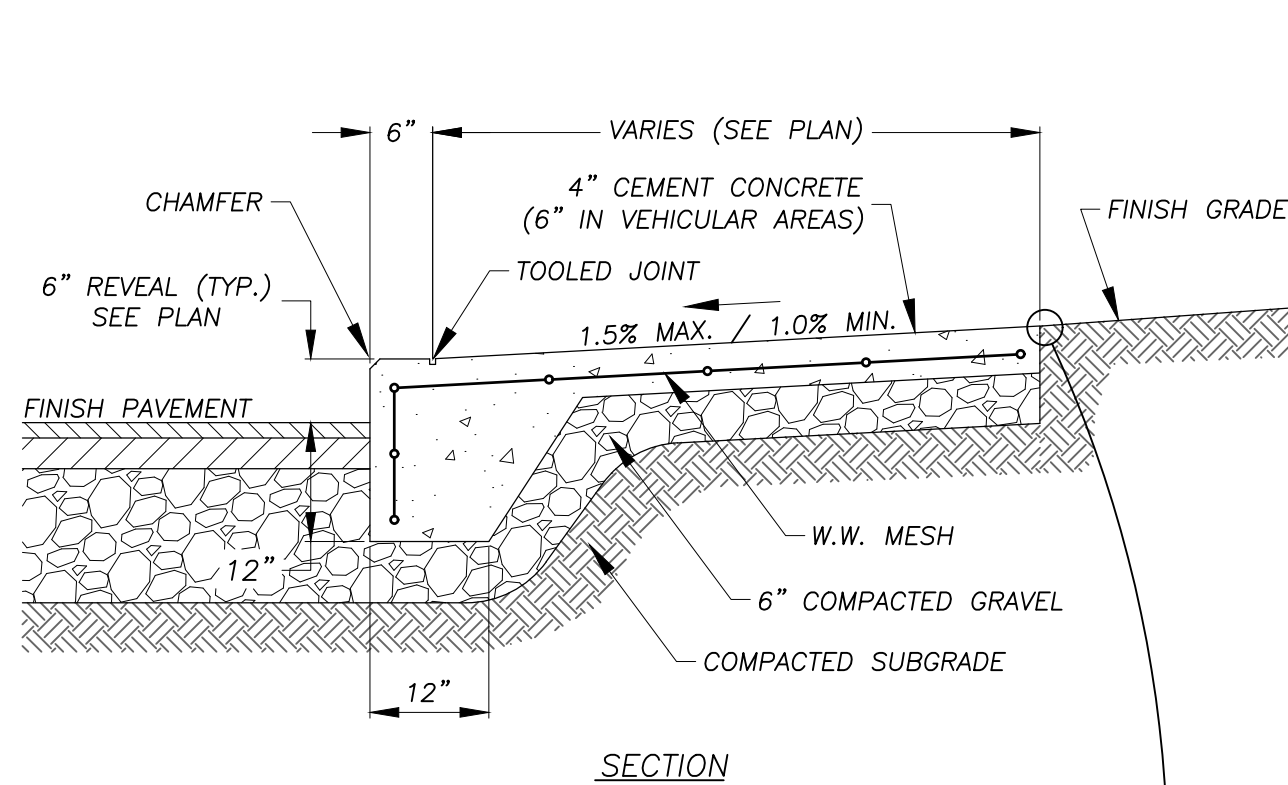
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SILT FENCE DETAIL
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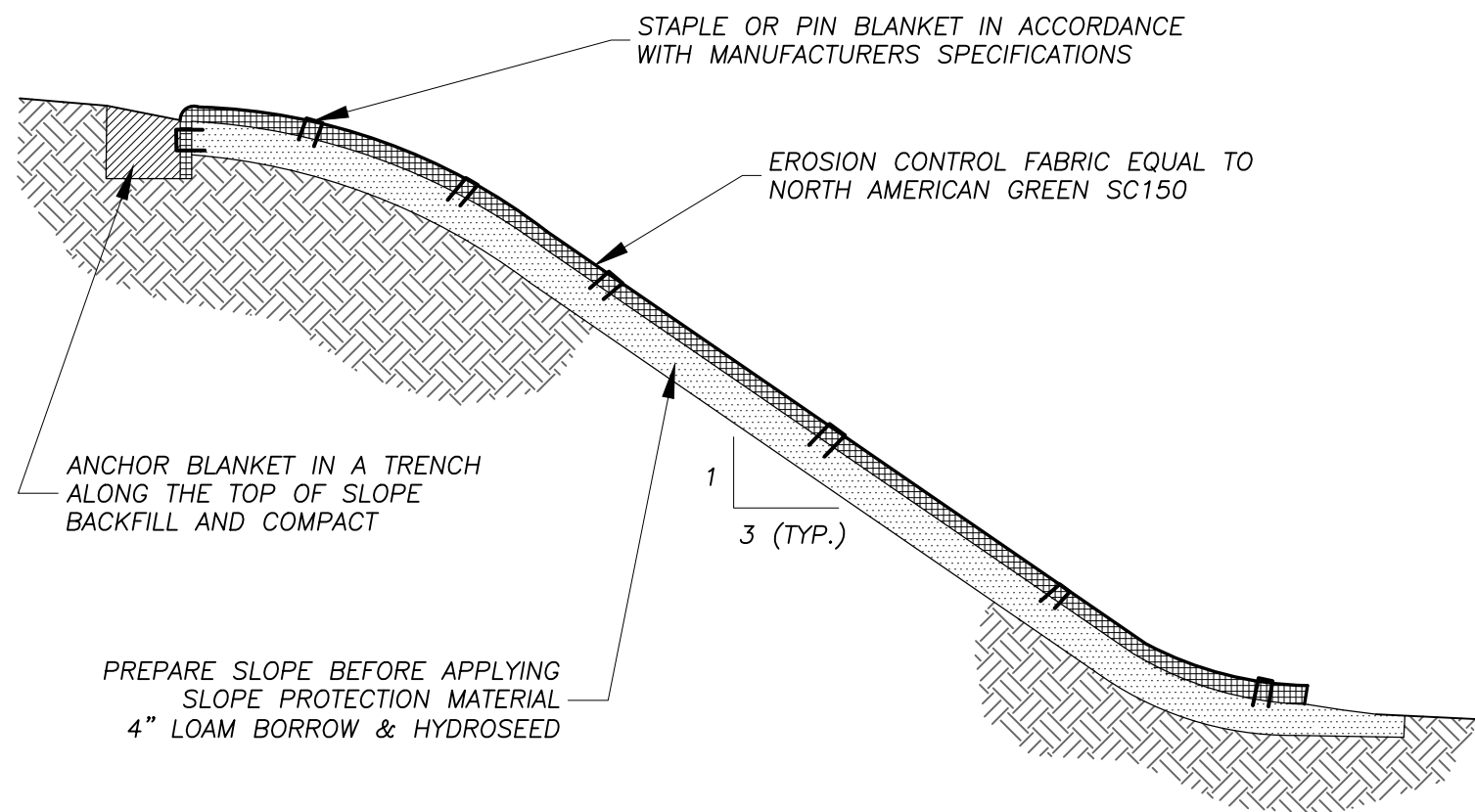


INLET PROTECTION - SEDIMENT FILTER SACK
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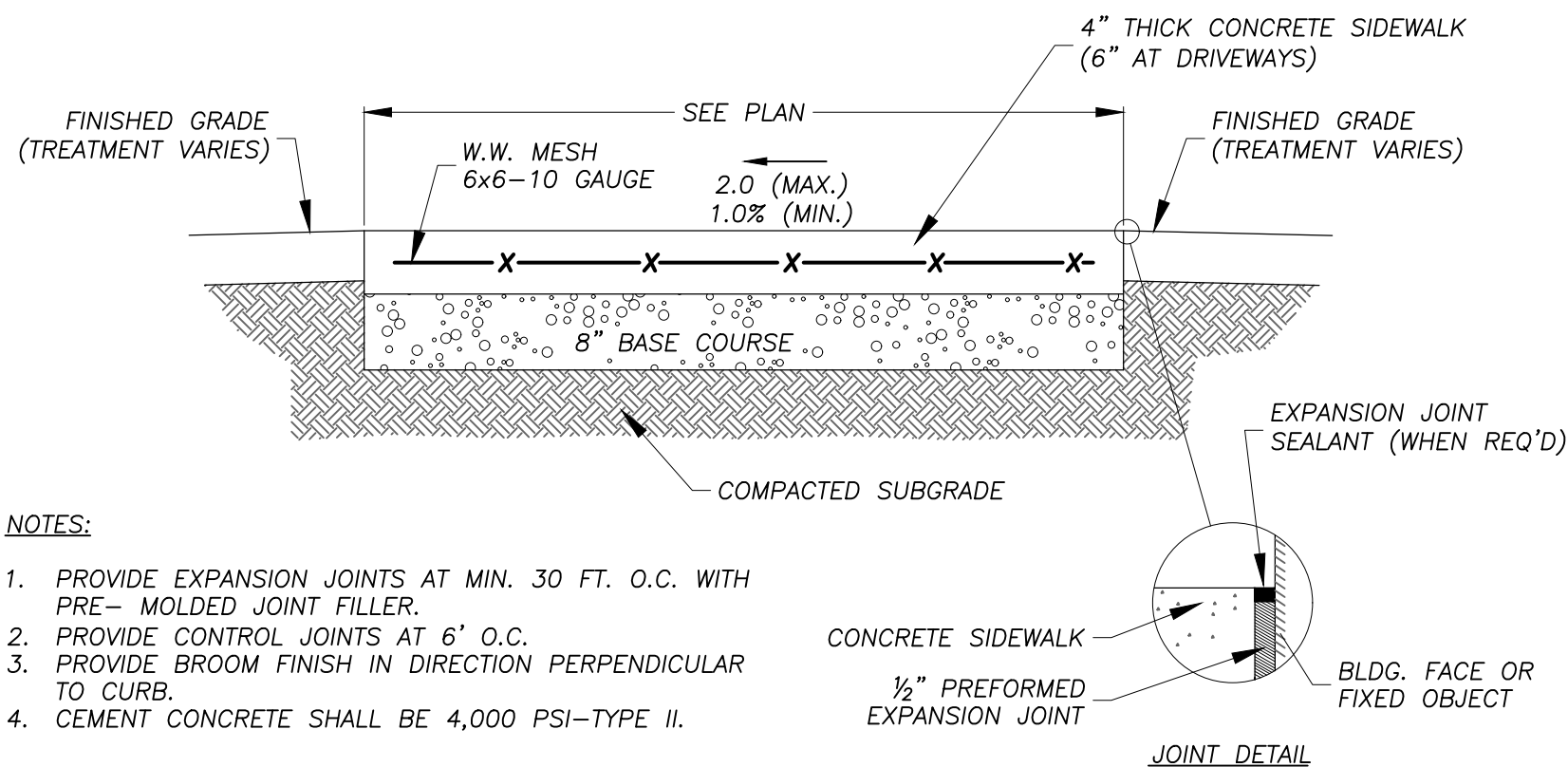


- NOTES:
1. PROVIDE EXPANSION JOINTS AT MINIMUM 30 FEET O.C. WITH PRE-MOLDED JOINT FILLER.
 2. PROVIDE CONTROL JOINTS AT 6 FEET O.C.
 3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.
 4. CEMENT CONCRETE SHALL BE 4,000 PSI, TYPE II.

MONOLITHIC CONCRETE CURB & SIDEWALK
NO SCALE

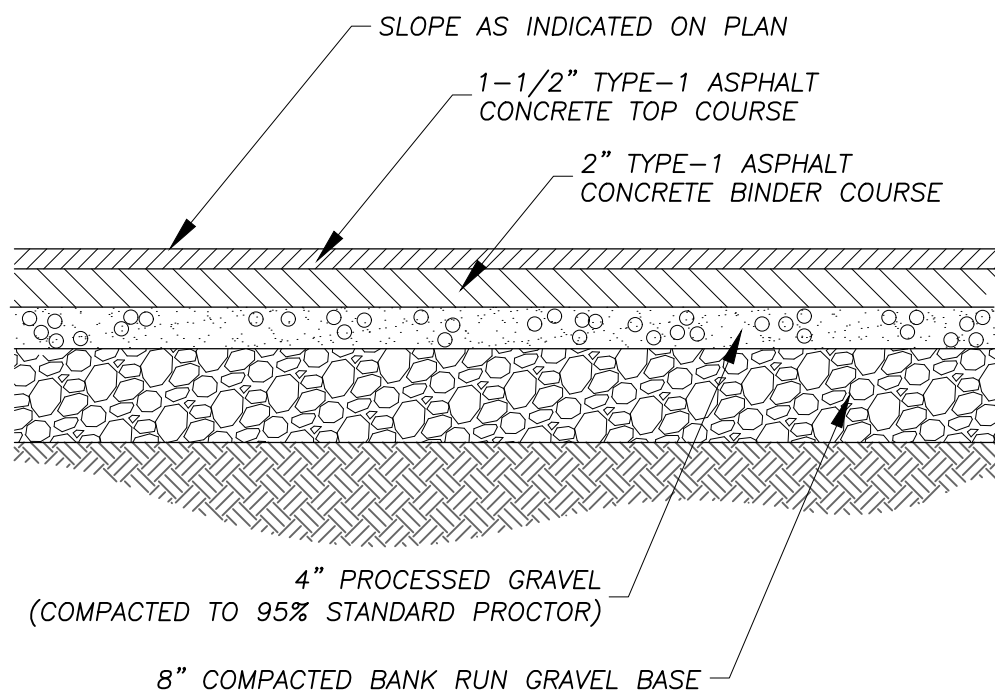


SLOPE PROTECTION MATERIAL INSTALLATION (AS REQ'D)
NO SCALE

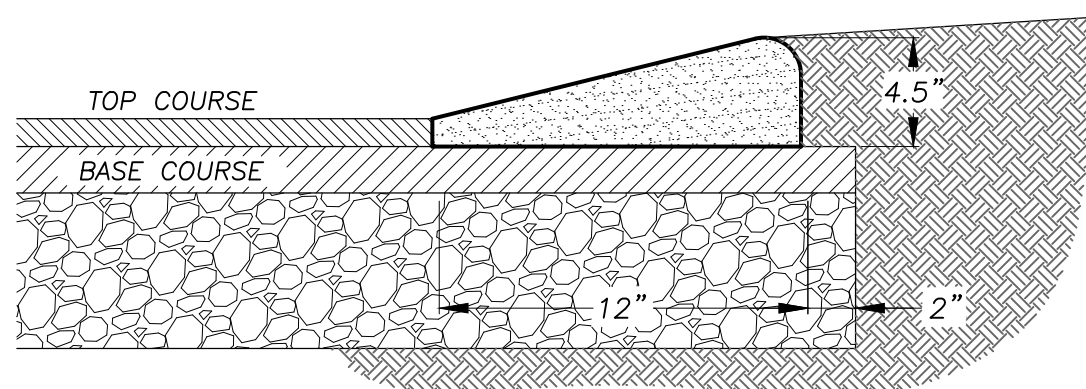


- NOTES:
1. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE-MOLDED JOINT FILLER.
 2. PROVIDE CONTROL JOINTS AT 6' O.C.
 3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.
 4. CEMENT CONCRETE SHALL BE 4,000 PSI-TYPE II.

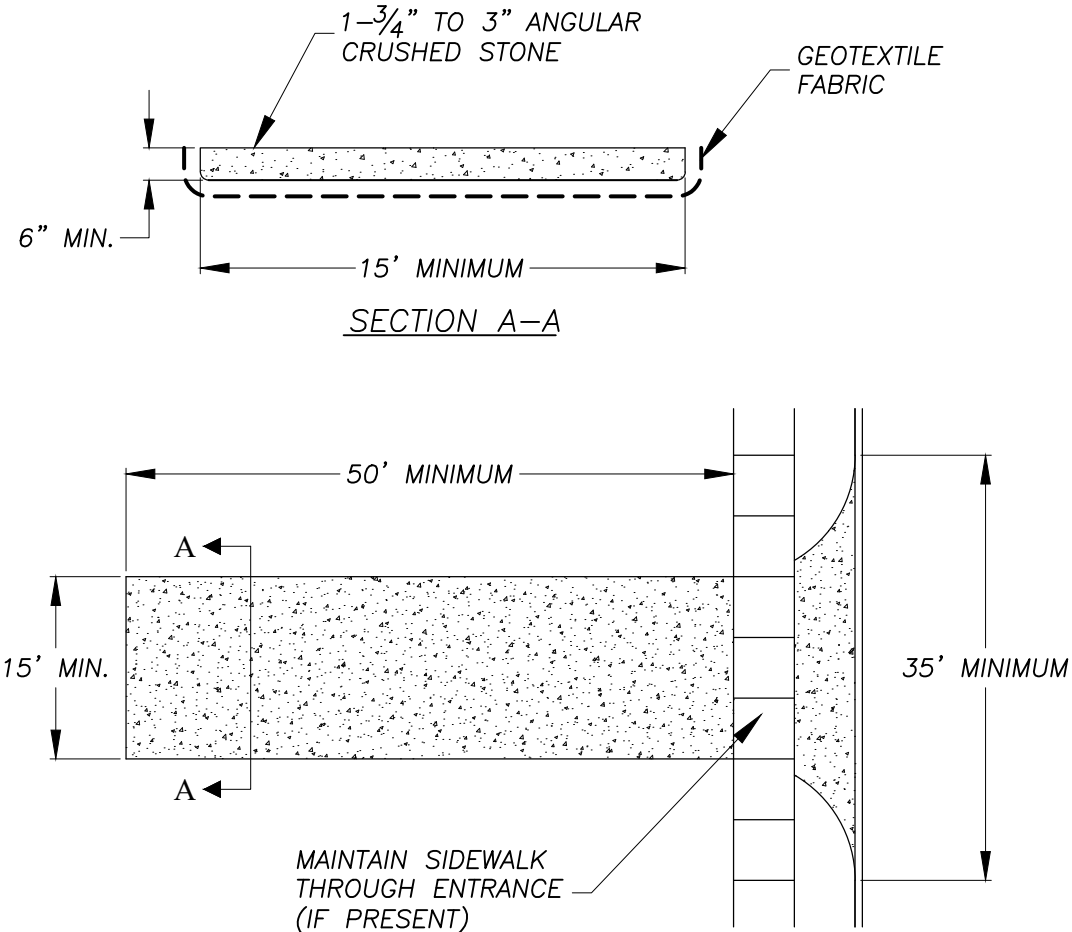
REINFORCED CONCRETE SIDEWALK SECTION
NO SCALE



BITUMINOUS CONCRETE PAVING DETAIL
NO SCALE

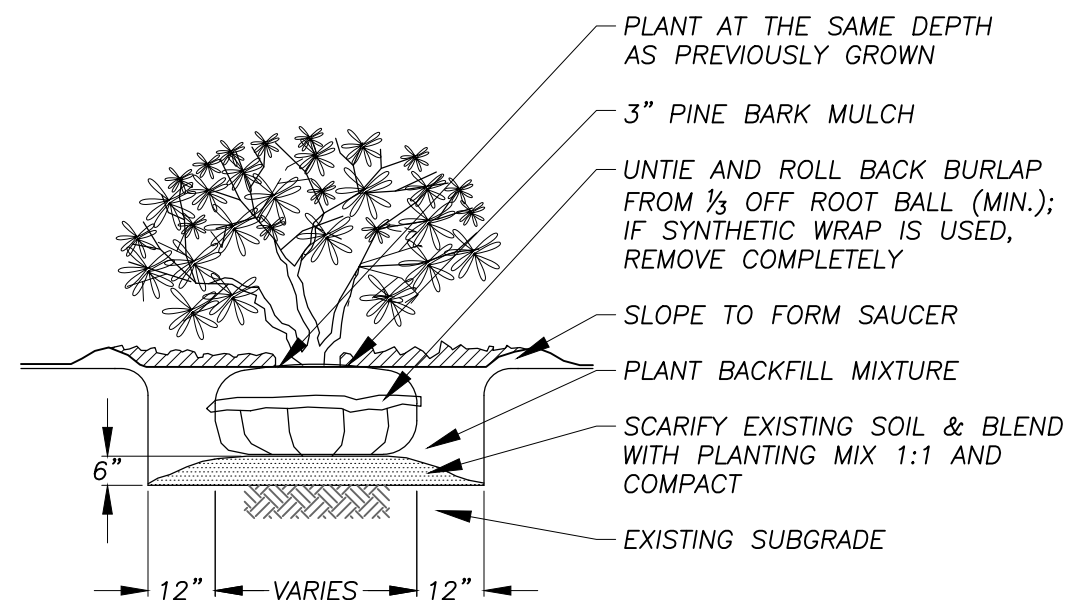


BITUMINOUS CONCRETE BERM (CAPE COD)
NO SCALE



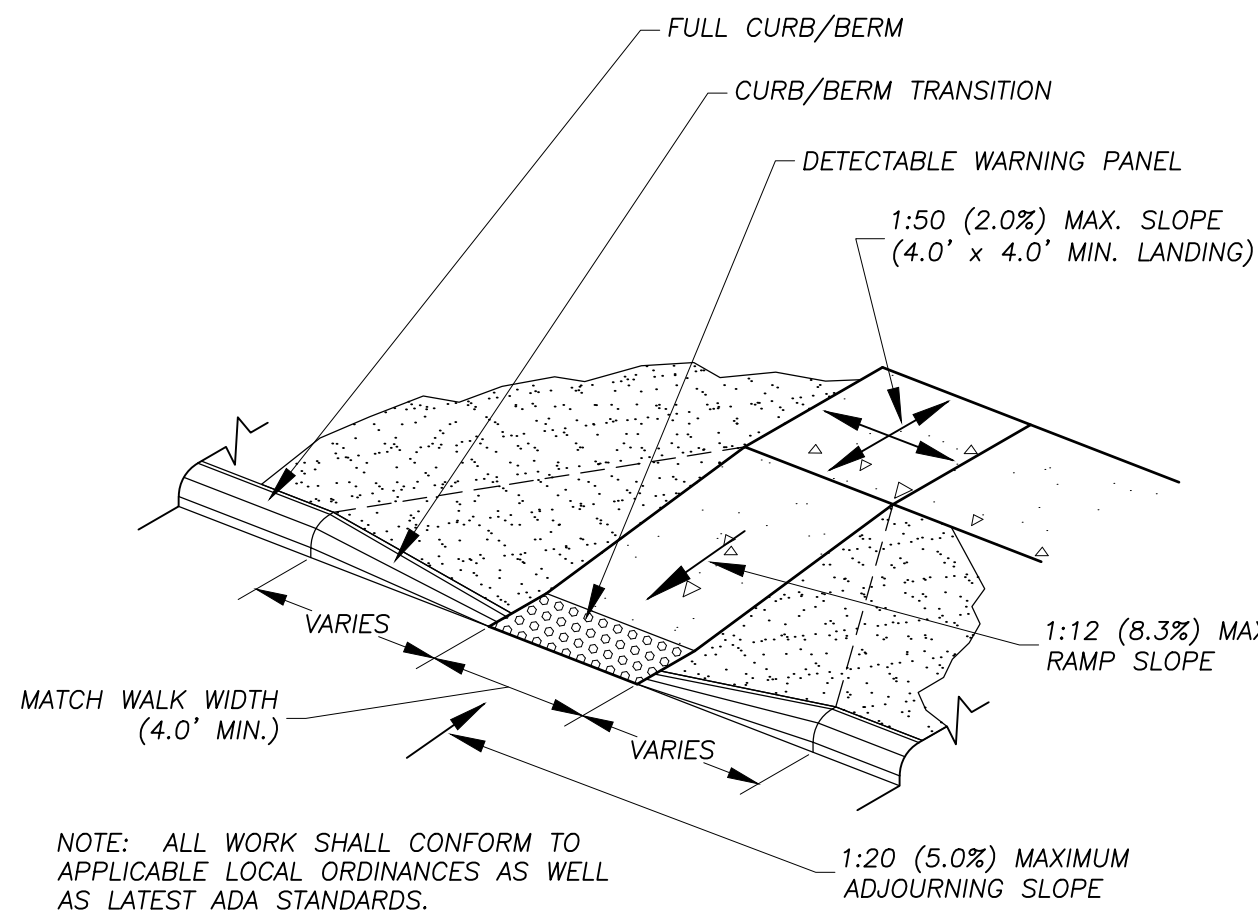
- NOTES
1. EACH SITE ENTRANCE IS TO HAVE A TEMPORARY CONSTRUCTION ENTRANCE.
 2. STONE IS TO BE 1-3/4" TO 3" ANGULAR CRUSHED STONE.
 3. PLACE GEOTEXTILE OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 4. ANY SEDIMENT TRACKED INTO THE ROADWAY NEEDS TO BE CLEANED IMMEDIATELY.
 5. ADDITIONAL STONE IS TO BE ADDED TO THE PAD AS NEEDED TO MAINTAIN THE ORIGINAL DEPTH.
 6. ANY SIDEWALK DAMAGED DURING CONSTRUCTION MUST BE REPLACED AT THE CONTRACTORS/DEVELOPERS EXPENSE.
 7. SIDEWALK MUST REMAIN PASSABLE, IF THE SIDEWALK BECOMES UNSAFE OR IMPASSABLE, A TEMPORARY SIDEWALK/ SIDEWALK DETOUR MUST BE PROVIDED.

ANTI-TRACKING APRON (AS REQ'D)
NO SCALE



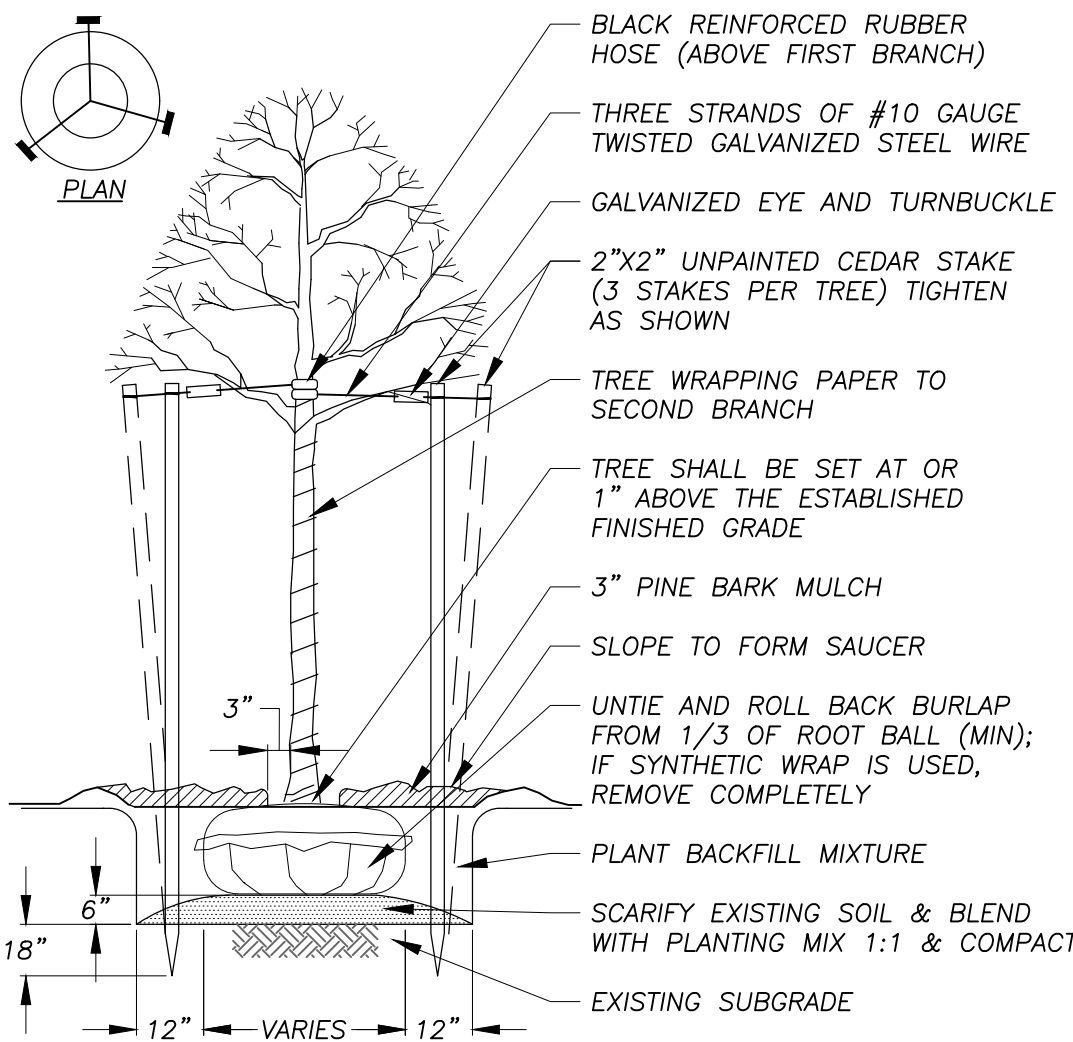
SHRUB PLANTING DETAIL
NO SCALE

- NOTES:
1. ALL SIDEWALK SLOPES ARE MAXIMUMS.
 2. ALL SIDEWALKS ARE TO BE CONSTRUCTED TO THE SAME SPECIFICATION FOUND IN MHD SUPPLEMENTAL SPECIFICATIONS TO THE 1988 STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, ENGLISH UNITS, JUNE 6, 2006 SECTIONS 701.00 TO 701.61 INCLUSIVE, AS AMENDED - UNLESS OTHERWISE SPECIFIED.
 3. ALL SIDEWALKS ARE TO BE 4000 PSI (28 DAY) PORTLAND CEMENT CONCRETE, 6%±1% AIR ENTRAINED.
 4. TOOL ALL JOINTS AND EDGES.
 5. SIDEWALK IS TO BE POURED IN ALTERNATING 20' LENGTHS TO ACCOUNT FOR PANEL CONTRACTION DURING DRYING.
 6. INSTALL 1/2" THICK PREFORMED EXPANSION JOINT FILLER (M.9.14.0) AT 20' INTERVALS.
 7. BROOM FINISH SIDEWALK OPPOSITE TO THE DIRECTION OF TRAVEL.
 8. SIDEWALK IS REQUIRED TO BE COVERED WITH PLASTIC AND KEPT MOIST FOR MINIMUM OF 72 HOURS AFTER IT HAS SET-UP.
 9. DETECTABLE WARNING PANEL ARE TO COMPLY WITH ADA 4.29.2
 10. DETECTABLE WARNING PANEL TO BE CAST IN PLACE DETECTABLE WARNING PANEL.



NOTE: ALL WORK SHALL CONFORM TO APPLICABLE LOCAL ORDINANCES AS WELL AS LATEST ADA STANDARDS.

ACCESSIBLE CURB RAMP - NO FLARES
NO SCALE



TREE PLANTING DETAIL
NO SCALE

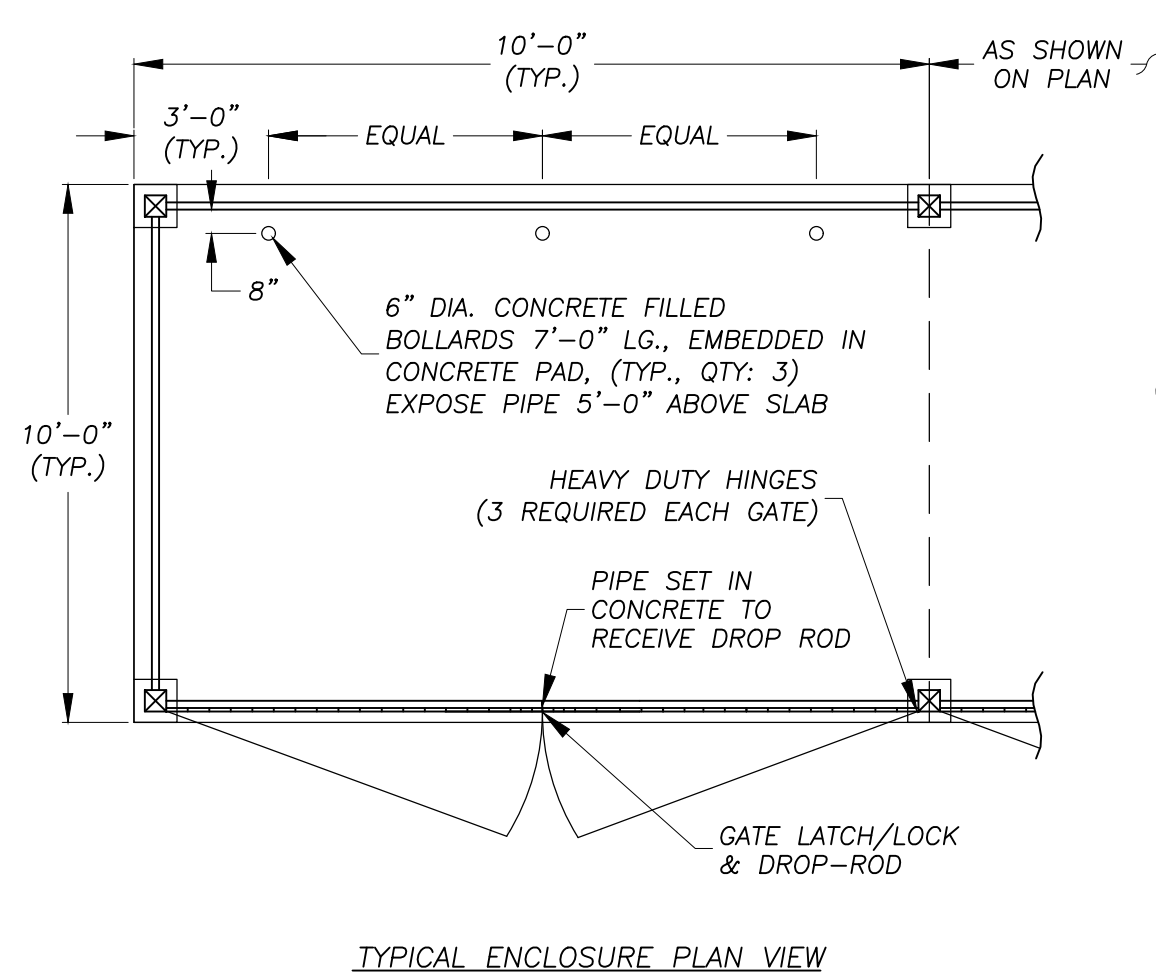
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DETAILS
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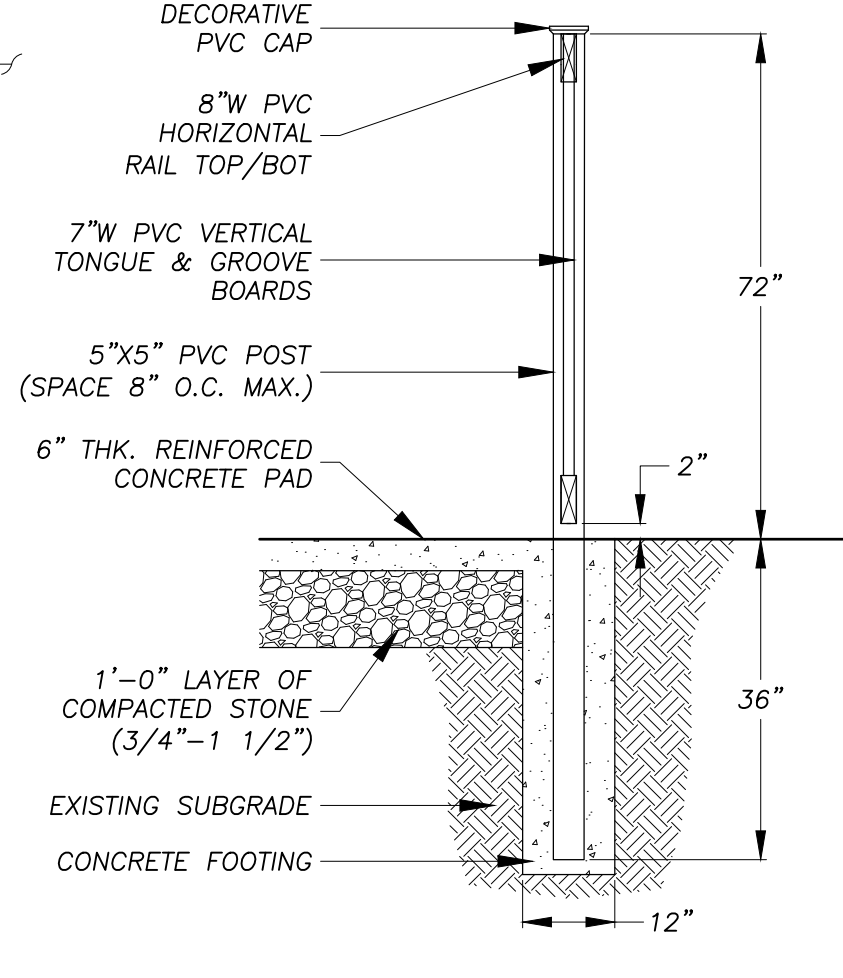


PREPARED FOR:	
Kenny Patel Shield Hotels 63 Myron Street West Springfield MA.	
ISSUANCE DATE: May 23, 2024	DATE: 9/24/24
REVISIONS:	
A. Engineering & peer review comments	
DRAFTED BY: M.B. & J.T.	
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SCALE: As Noted	
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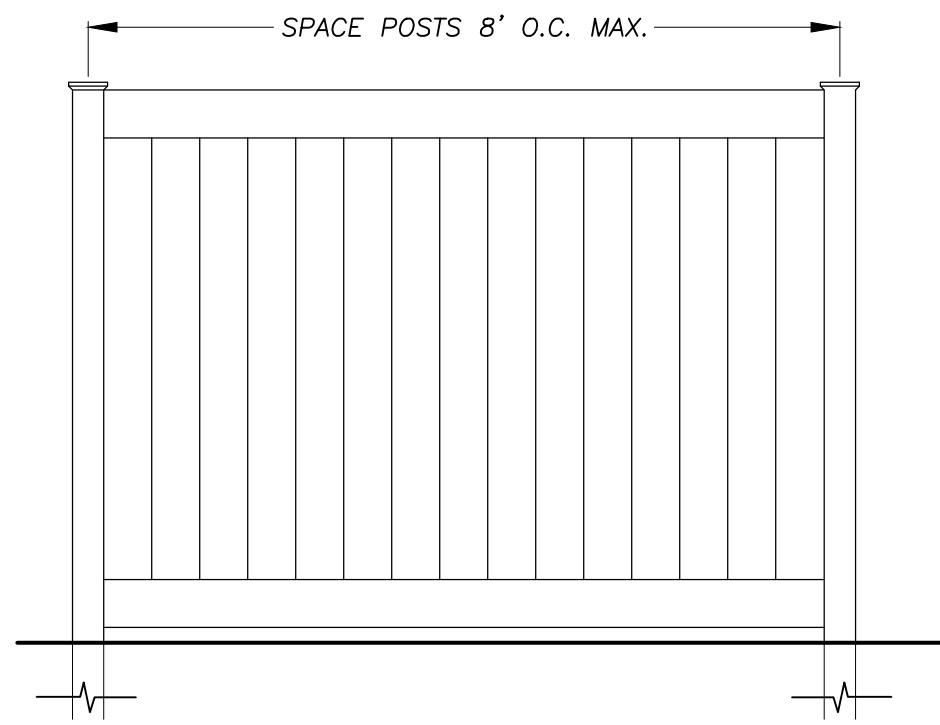
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NOT FOR CONSTRUCTION



TYPICAL ENCLOSURE PLAN VIEW



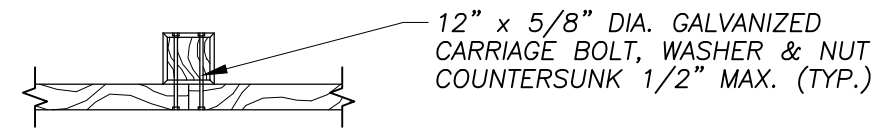
TYPICAL ENCLOSURE DUMPSTER SECTION



TYPICAL DUMPSTER ENCLOSURE ELEVATION

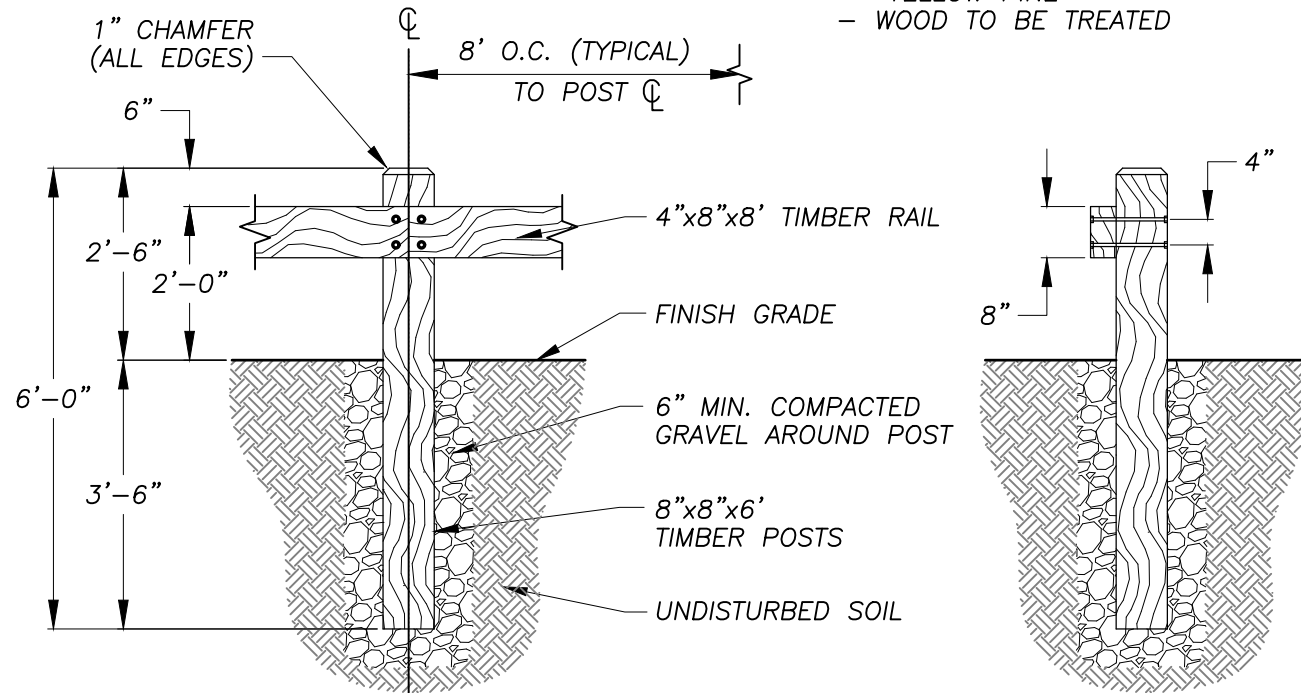
DUMPSTER ENCLOSURE

NO SCALE



PLAN VIEW

- NOTES
- ALL TIMBERS TO BE SOUTHERN YELLOW PINE
- WOOD TO BE TREATED

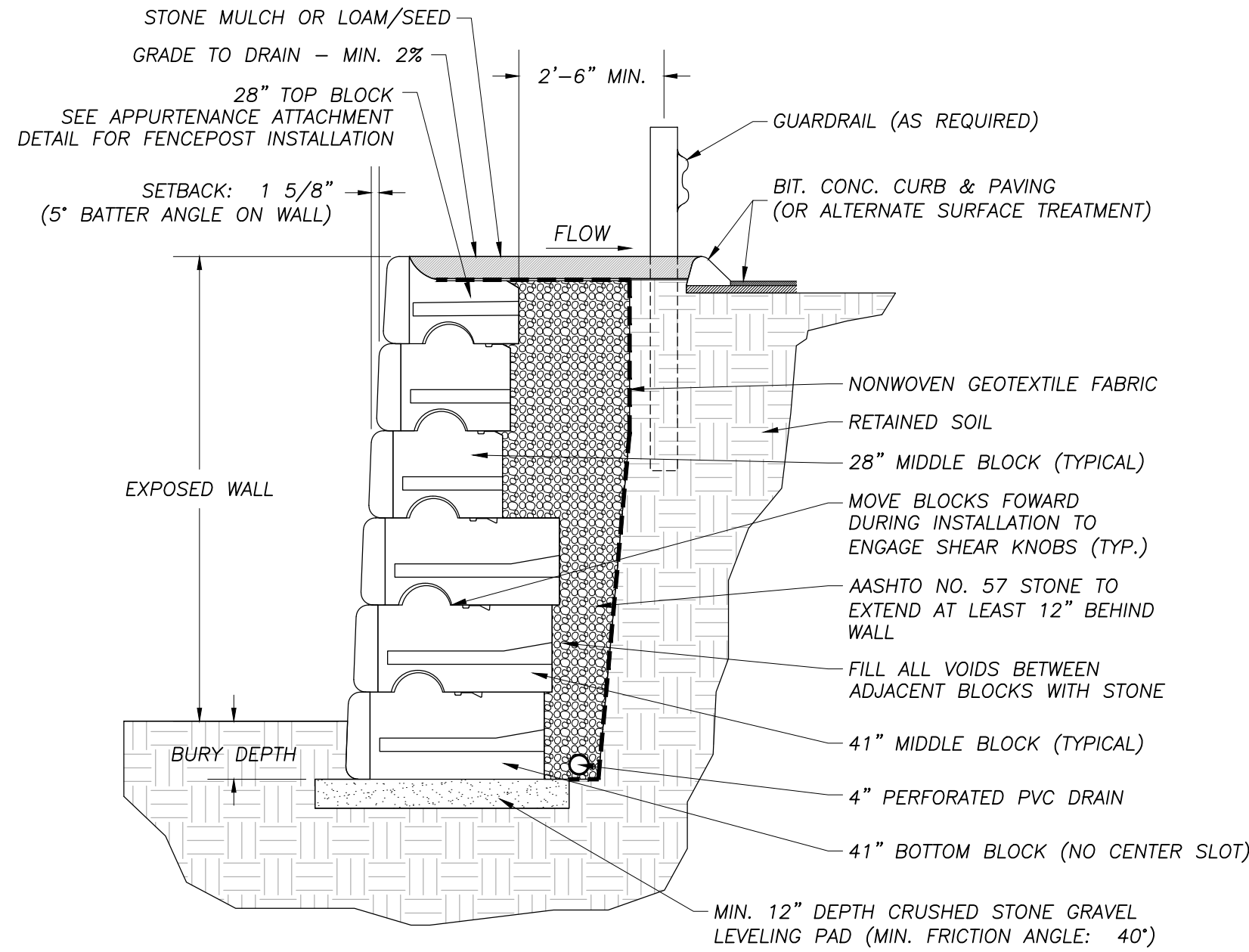


FRONT ELEVATION

SIDE ELEVATION

WOOD GUARDRAIL

NO SCALE



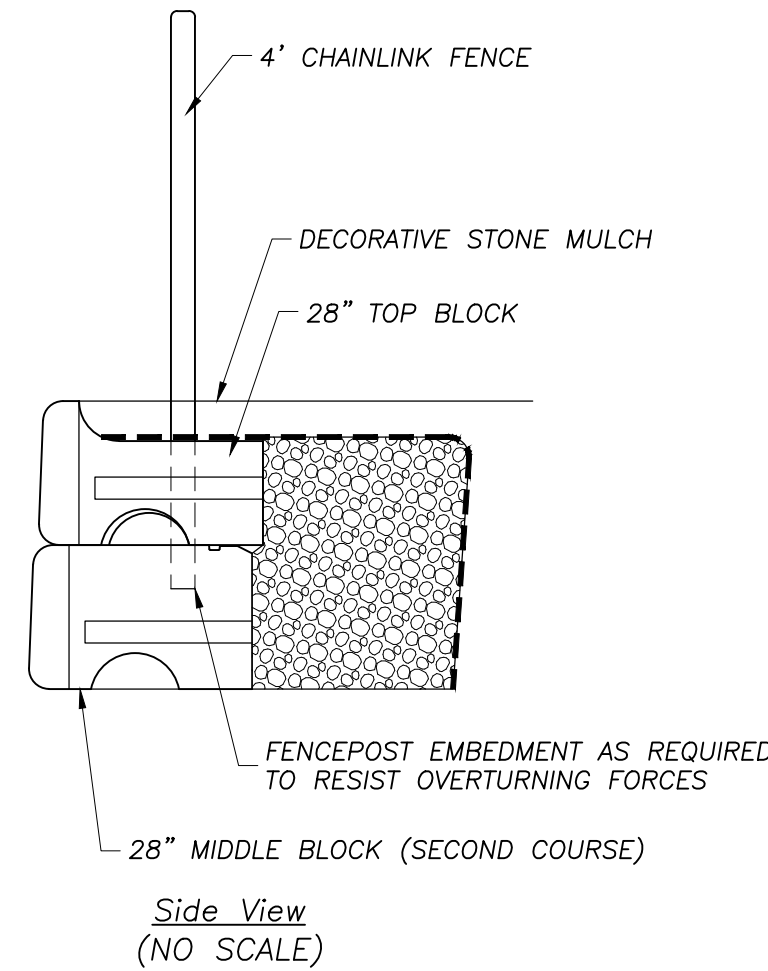
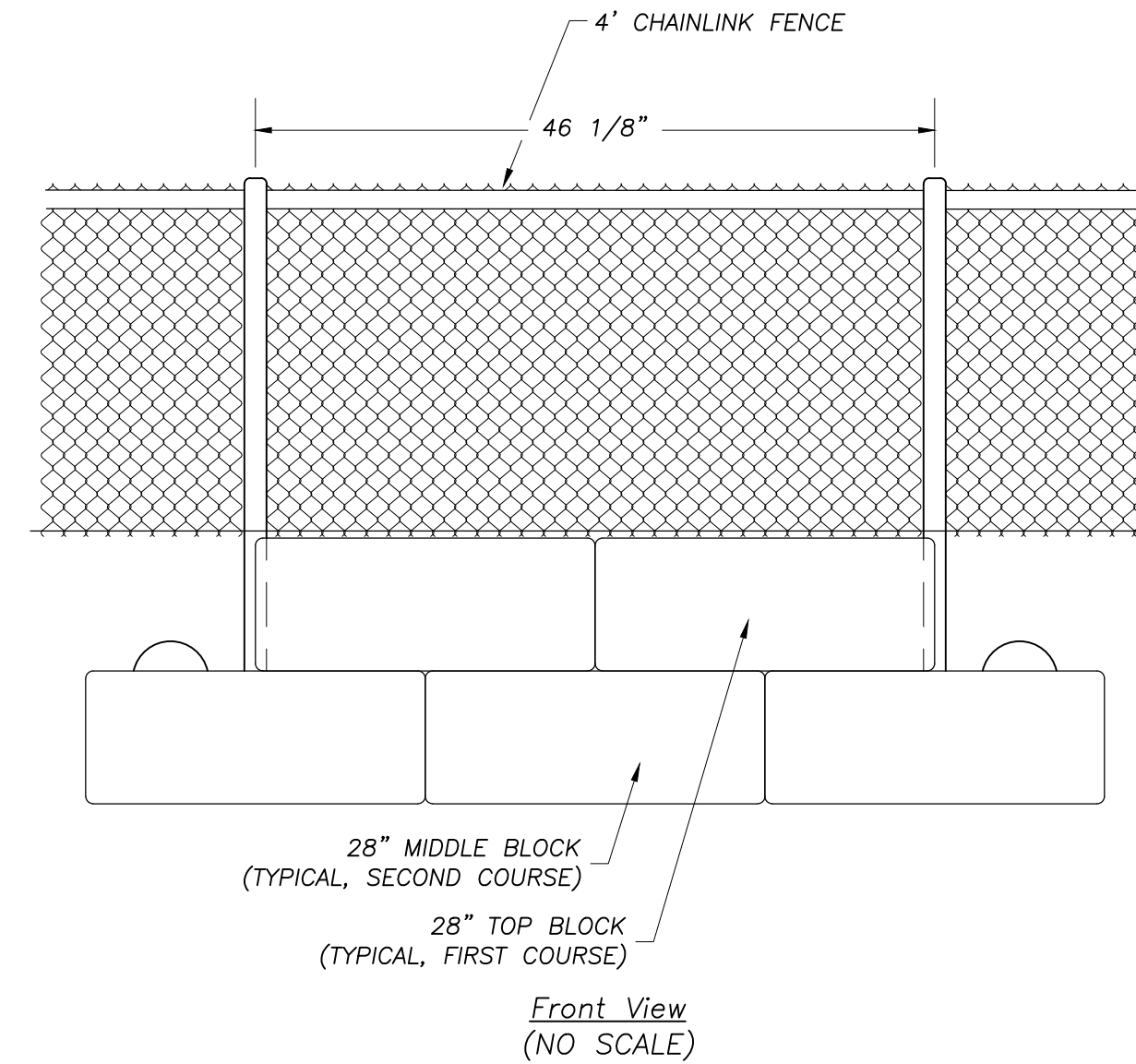
NOTES:

- THIS DETAIL HAS BEEN PROVIDED FOR REFERENCE PURPOSES ONLY. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE FULL CONSTRUCTION DETAILS AND WALL PROFILE STAMPED BY A PROFESSIONAL ENGINEER FOR CITY/RLA APPROVAL.
- THE INFORMATION SHOWN HEREON IS INTENDED TO CONVEY INFORMATION RELATED TO THE ANTICIPATED GRAVITY RETAINING WALL CONSTRUCTION UTILIZING THE SPECIFIED PRODUCT FOR BIDDING PURPOSES. GEGRID REINFORCEMENTS, CONCRETE FOOTINGS, AND OTHER SEVERE-DUTY ELEMENTS MAY BE REQUIRED DUE TO EXISTING SOILS, LOADING, WALL HEIGHT, ETC. AT THE PROPOSED SITE.
- FINAL WALL DETAILS MUST ADDRESS BOTH INTERNAL AND EXTERNAL DRAINAGE, DRAINAGE CONNECTIONS, AND ANY NECESSARY ACCOMMODATION FOR UTILITY CROSSINGS.
- FINAL WALL DESIGN AND INSTALLATION SHALL CONFORM, AT A MINIMUM, TO THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOUND BOUND INTO THE PROJECT SPECIFICATIONS.

DETAIL & PRODUCT SOURCE:
REDI-ROCK INTERNATIONAL
www.redi-rock.com

TYPICAL SECTION - SEGMENTAL PRECAST CONCRETE RETAINING WALL

NO SCALE



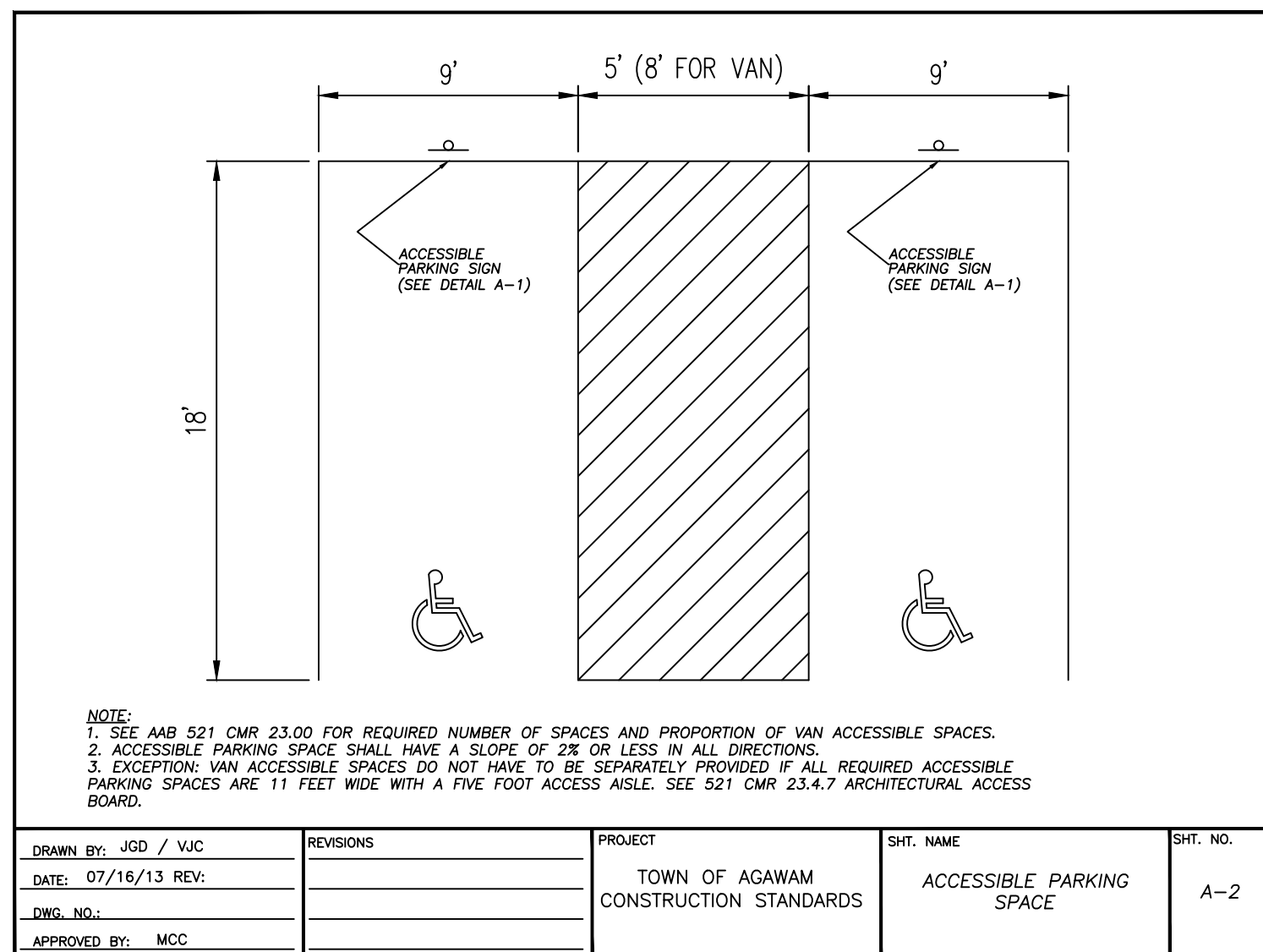
NOTES:

THIS DETAIL HAS BEEN PROVIDED TO COMMUNICATE TYPICAL FENCEPOST ATTACHMENT TO THE PROPOSED SEGMENTAL CONCRETE RETAINING WALL. ANY CHANGES RELATIVE TO THE LOCATION AND/OR METHOD OF SECURING FENCEPOSTS DUE TO FINAL WALL DESIGN BY STRUCTURAL ENGINEER OR PROPOSED WALL PRODUCT SUBSTITUTION MAY REQUIRE, AT THE DISCRETION OF THE CITY OR RLA, ADDITIONAL STRUCTURAL ENGINEERING ANALYSIS (TO BE PROVIDED BY CONTRACTOR).

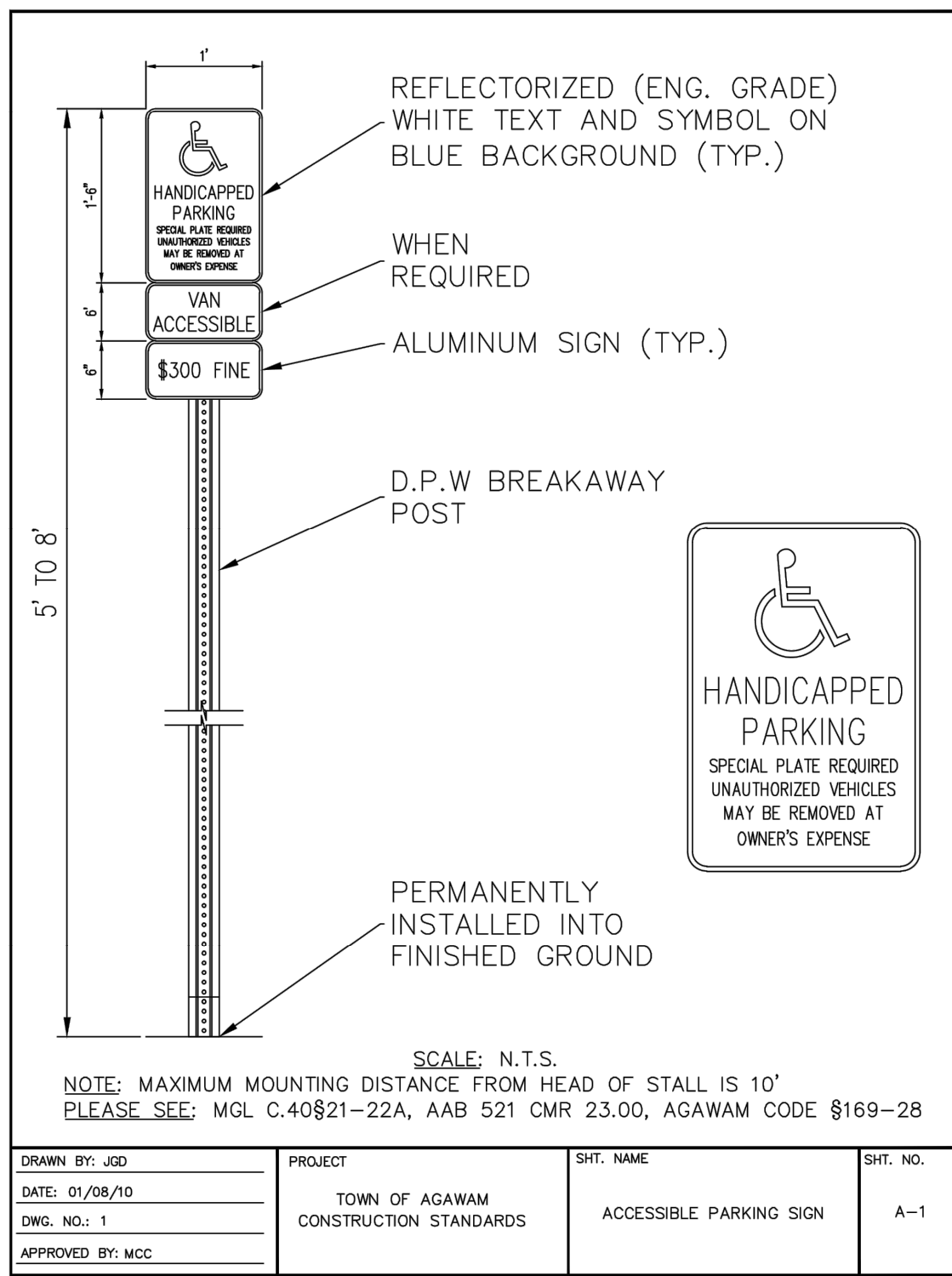
DETAIL SOURCE:
REDI-ROCK INTERNATIONAL
www.redi-rock.com

FENCEPOST TO RETAINING WALL ATTACHMENT

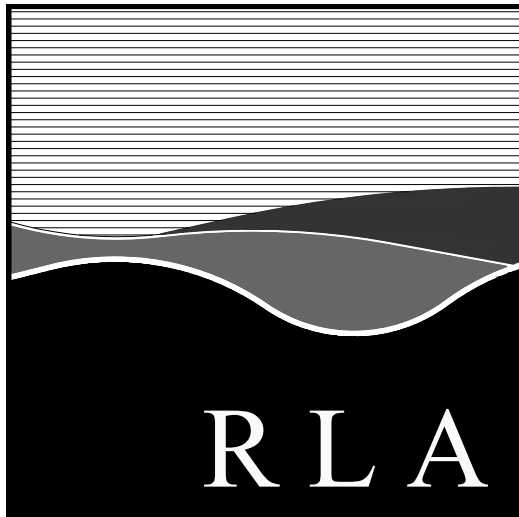
NO SCALE



DRAWN BY: JGD / VJC	REVISIONS	PROJECT	SHT. NAME	SHT. NO.
DATE: 07/16/13 REV.		TOWN OF AGAWAM CONSTRUCTION STANDARDS	ACCESSIBLE PARKING SPACE	A-2
DWG. NO.: 1				
APPROVED BY: MCC				



DRAWN BY: JGD	PROJECT	SHT. NAME	SHT. NO.
DATE: 07/28/10	TOWN OF AGAWAM CONSTRUCTION STANDARDS	ACCESSIBLE PARKING SIGN	A-1
DWG. NO.: 1			
APPROVED BY: MCC			



R LEVESQUE ASSOCIATES INC.

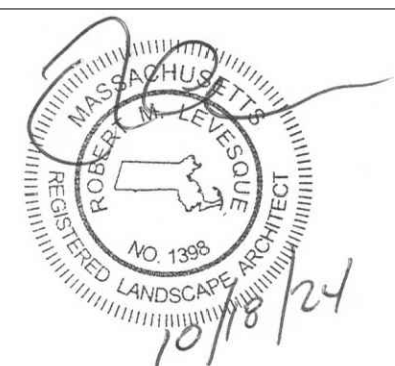
Landscape Architects
Civil Engineers - Land Surveyors
Environmental Consultants

ph: 413.568.0985 fax: 413.568.0986

40 School Street
Westfield, MA 01085
rlaland.com

DETAILS

1422 Main Street
Agawam, MA
Map K4 Block I Parcels 5, 6, 7, & 13



PREPARED FOR:

Kenny Patel
Shield Hotels
63 Myron Street
West Springfield MA.

ISSUANCE DATE:

May 23, 2024

REVISIONS:

A. Layout revised per fire dept. review

10/18/24

DRAFTED BY:

M.B. & J.T.

UNAUTHORIZED ALTERATION OF THIS DOCUMENT IS A VIOLATION OF MASSACHUSETTS STATE LAW

SCALE:

As Noted

RLA PROJ. NUMBER:

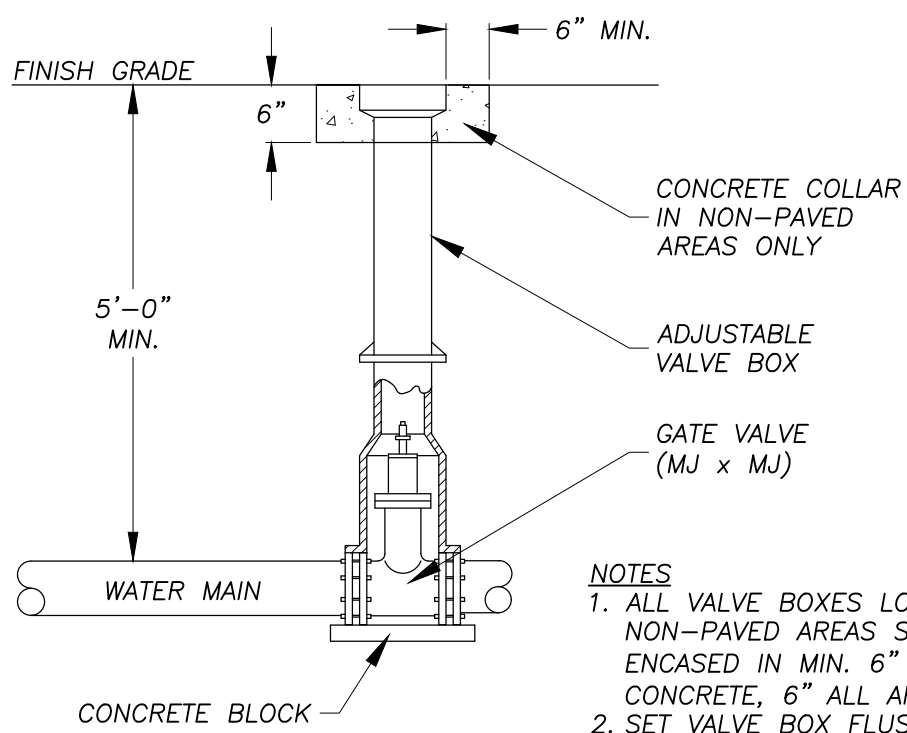
231007

DRAWING#

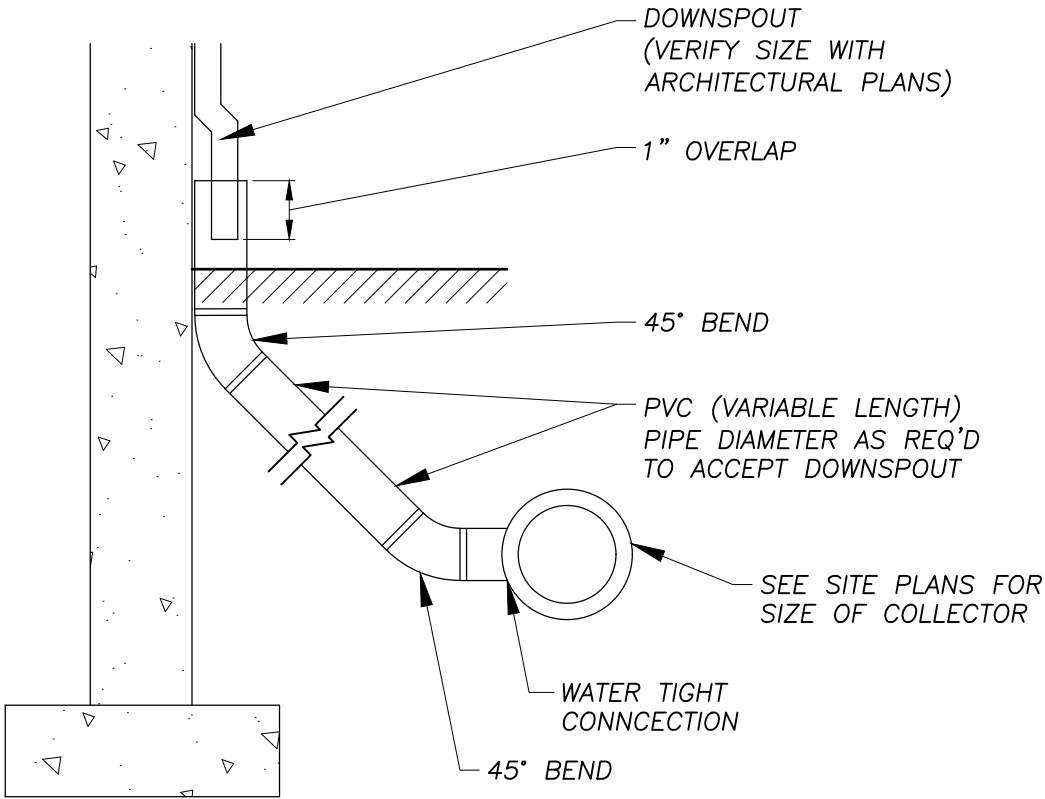
REV.

D-2 A

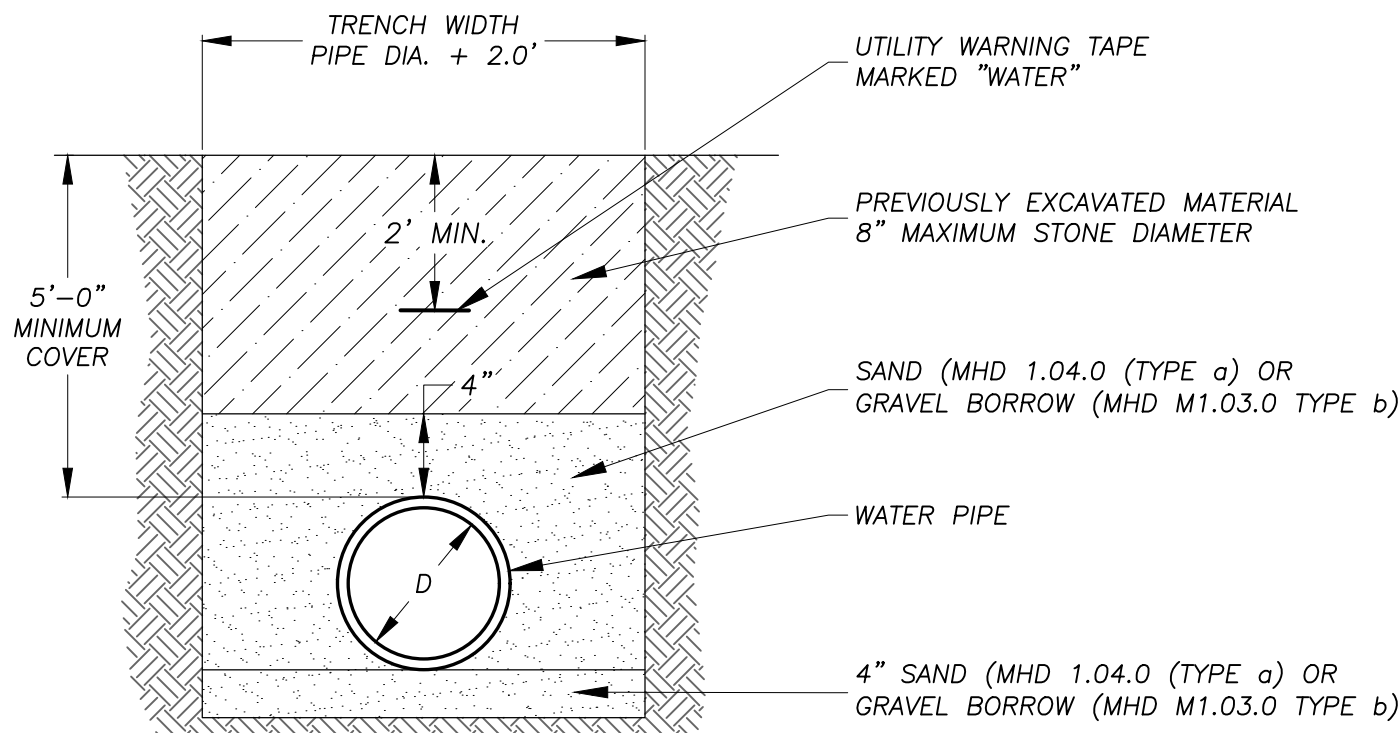
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NOT FOR CONSTRUCTION



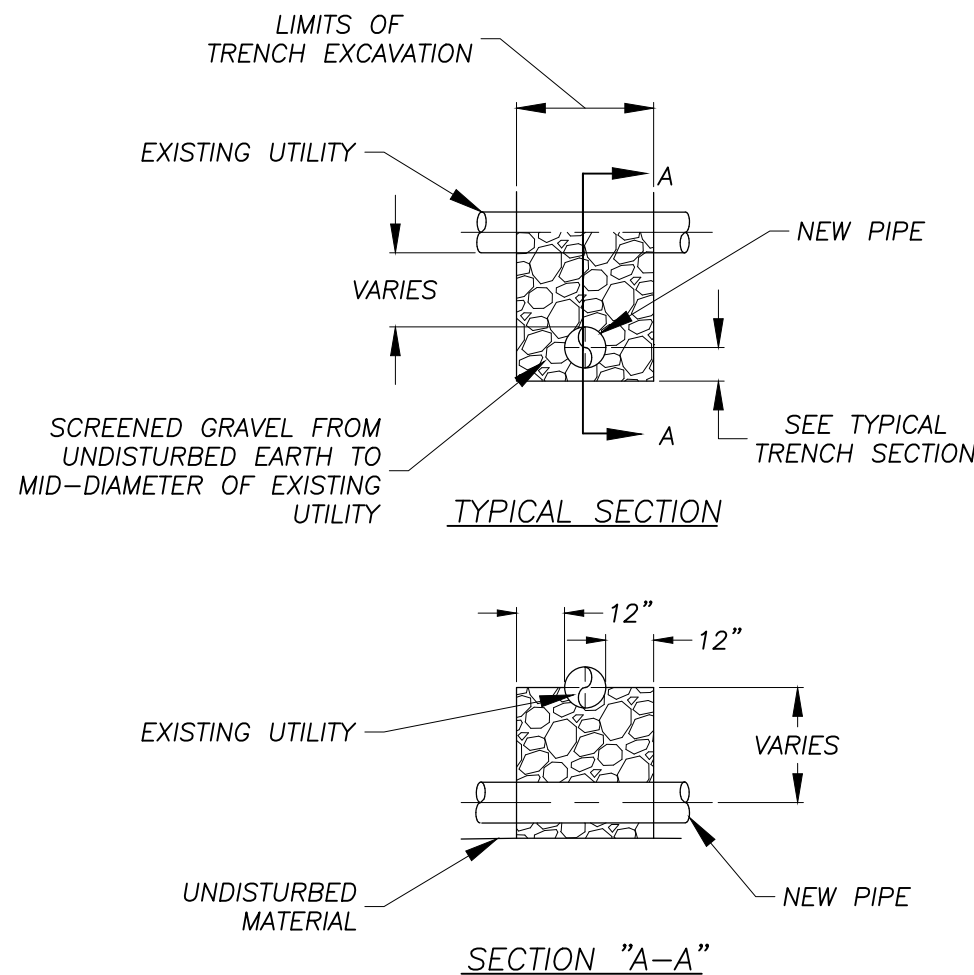
TYPICAL BURIED VALVE
NO SCALE



DOWNSPOUT COLLECTOR DETAIL
NO SCALE



TYPICAL WATER MAIN TRENCH SECTION
NO SCALE

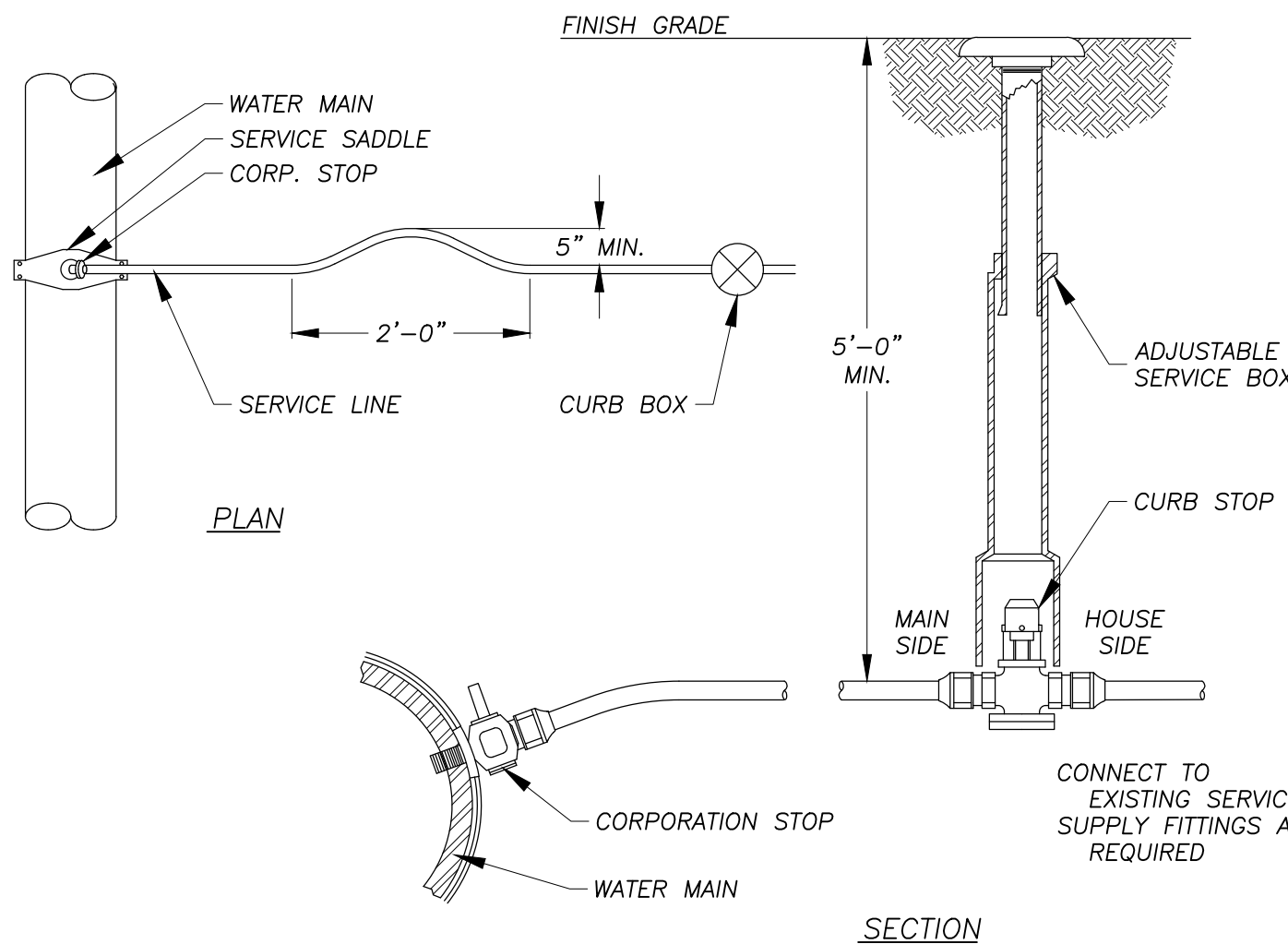


UTILITY CROSSING DETAIL
NO SCALE

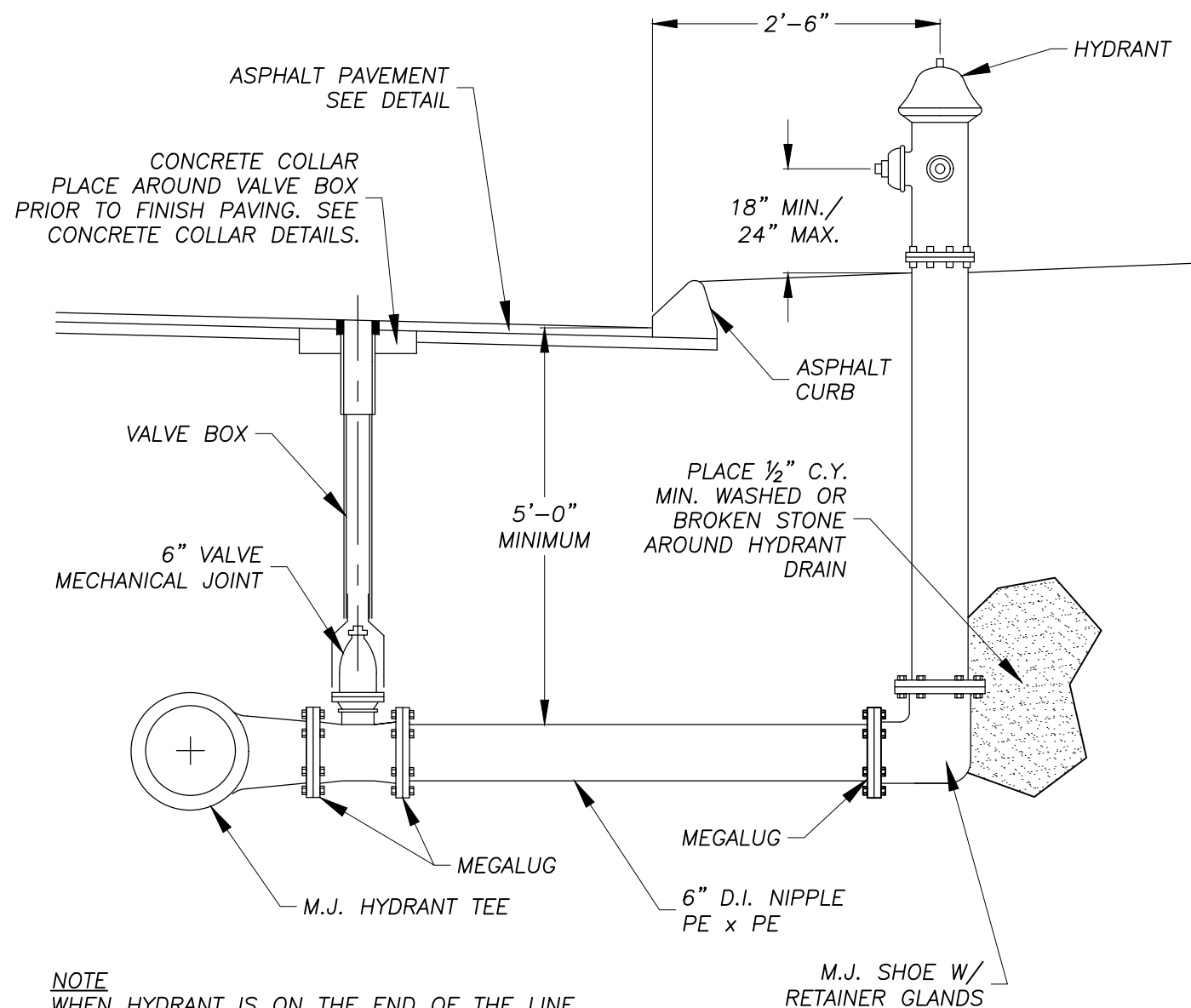
PIPE RESTRAINT SCHEDULE FOR GROUND BURIED PRESSURE PIPES									
PIPE	LENGTH OF RESTRAINT REQ'D (FEET)							DESIGN FORCE ON RESTRAINT REQ'D (KIPS) ③	
	22½'	33¾'	45'	56¼'	67½'	78¾'	90' OR TEE	45'	90' OR TEE
6"	3	6	11	16	23	29	37	2.0	5.0
8"	4	8	15	22	31	41	50	3	9.0

- ① THIS TABLE IS BASED ON A TEST PRESSURE OF 180 PSI (OPERATING PRESSURE + WATER HAMMER). FOR OTHER TEST PRESSURES, ALL VALUES TO BE INCREASED OR DECREASED PROPORTIONALLY.
- ② IN EACH DIRECTION FROM POINT OF DEFLECTION EXCEPT FOR TEE AT WHICH ONLY THE BRANCH IN THE DIRECTION OF THE TEE STEM.
- ③ IF TIE RODS ARE USED, USE 4 RODS MINIMUM AND ADD ½" TO BAR DIA AS CORROSION ALLOWANCE.
- NOTES: THRUST BLOCKS
- FIGURES BASED ON 300 PSI OPERATING PLUS SURGE PRESSURE.
 - CONCRETE SHALL NOT BE DUMPED OVER THE FITTING. THE BLOCK MUST BE FORMED.
 - RETAINING RODS OR RESTRAINED JOINT PIPE AS APPROVED BY THE ENGINEER MAY BE USED IN PLACE OF THRUST BLOCKS.
 - PLACE 15 LB ROOF FELT BETWEEN PIPE AND CONCRETE.
 - CONCRETE SHALL NOT COVER PIPE JOINTS.
 - ALL BENDS, TEES, HYDRANTS AND DEAD ENDS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS OR SUITABLE RESTRAINING DEVICES.
 - BEARING AREA IS AREA OF CONCRETE IN CONTACT WITH WALL OF TRENCH = $H \times L$.
 - HEIGHT (H) AND LENGTH (L) AS REQUIRED TO OBTAIN AREA IN TABLE. LENGTH TO BE 2 TIMES HEIGHT.
 - ESTIMATED SOIL BEARING LOAD IS 2000 LBS.

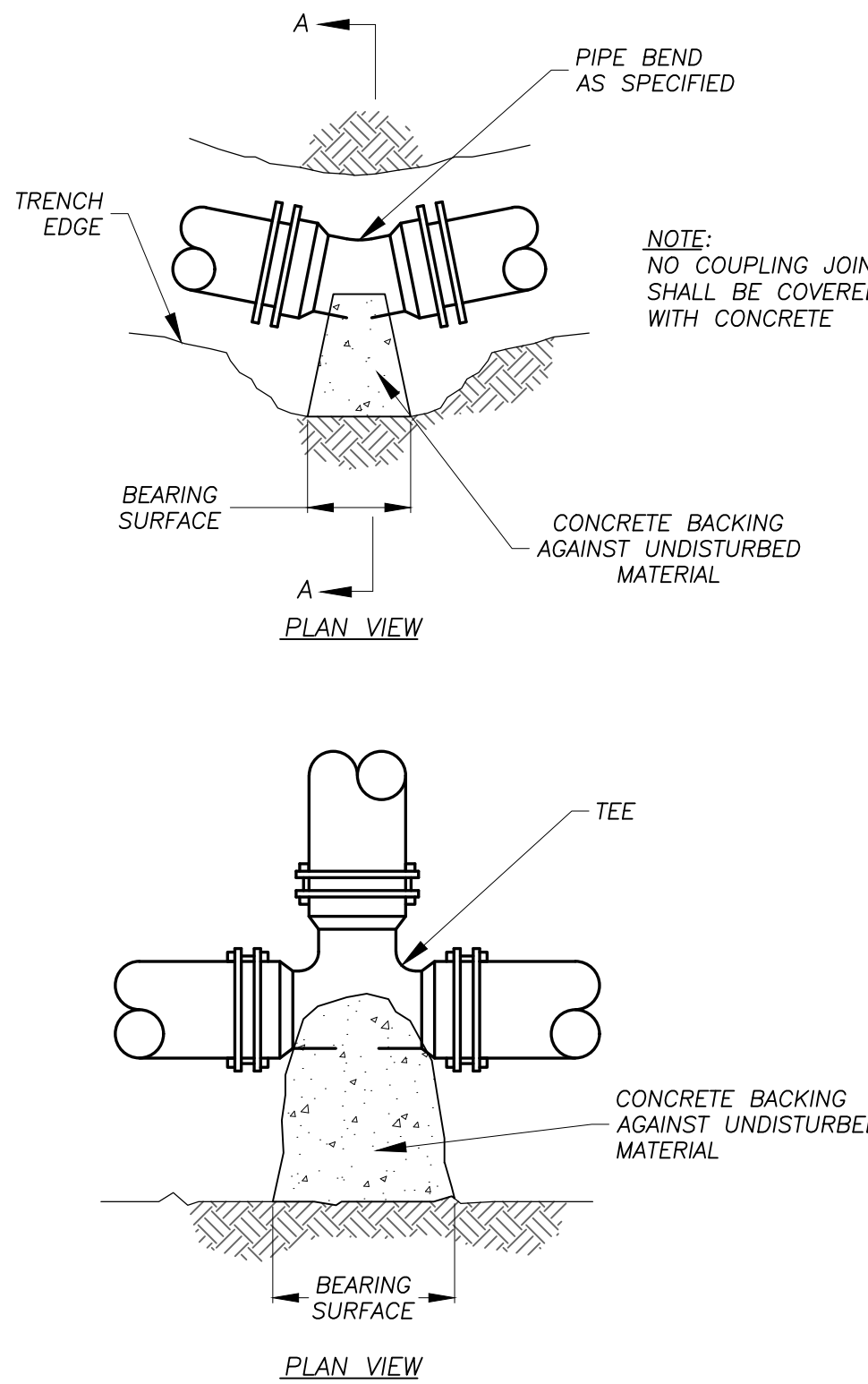
PIPE SIZE (INCHES)	MINIMUM AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS IN SQUARE FEET			
	1,000 LBS./ SQ. FT.	2,000 LBS./ SQ. FT.	4,000 LBS./ SQ. FT.	
DEAD END, TEE OR HYDRANT				
4 OR LESS	6	3	2	
6	11	6	3	
8	20	10	5	
12	34	17	9	
16	60	30	15	
1/4 BEND - 90°				
4	8	4	2	
6	16	8	4	
8	28	14	7	
12	56	28	14	
16	100	50	25	
1/8 BEND - 45°				
4	4	2	1	
6	9	4	2	
8	14	7	4	
12	32	16	8	
16	60	30	15	
1/16 BEND - 22 1/2° OR LESS				
4	2	1	1	
6	4	2	1	
8	8	4	2	
12	15	8	4	
16	30	15	8	



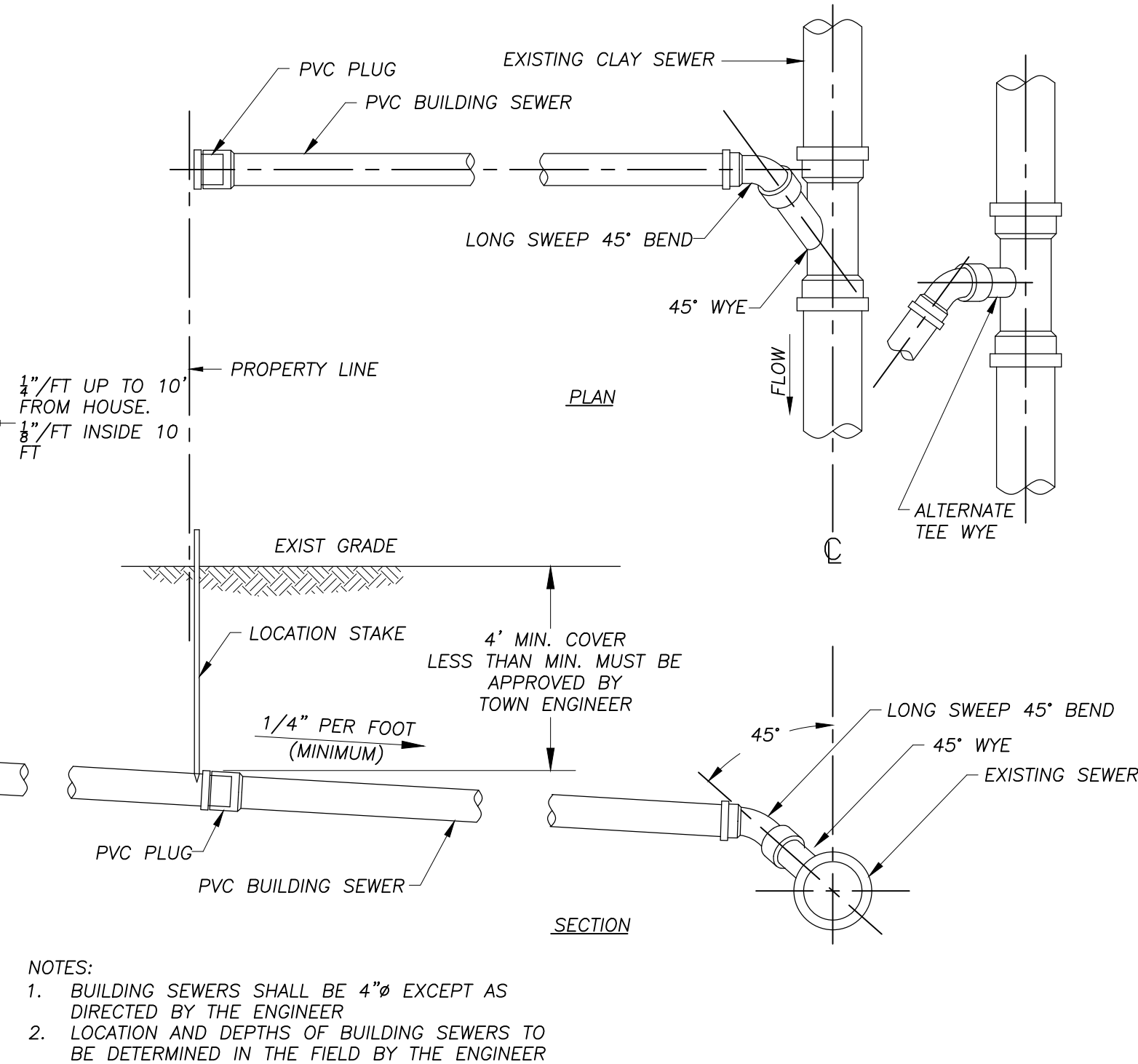
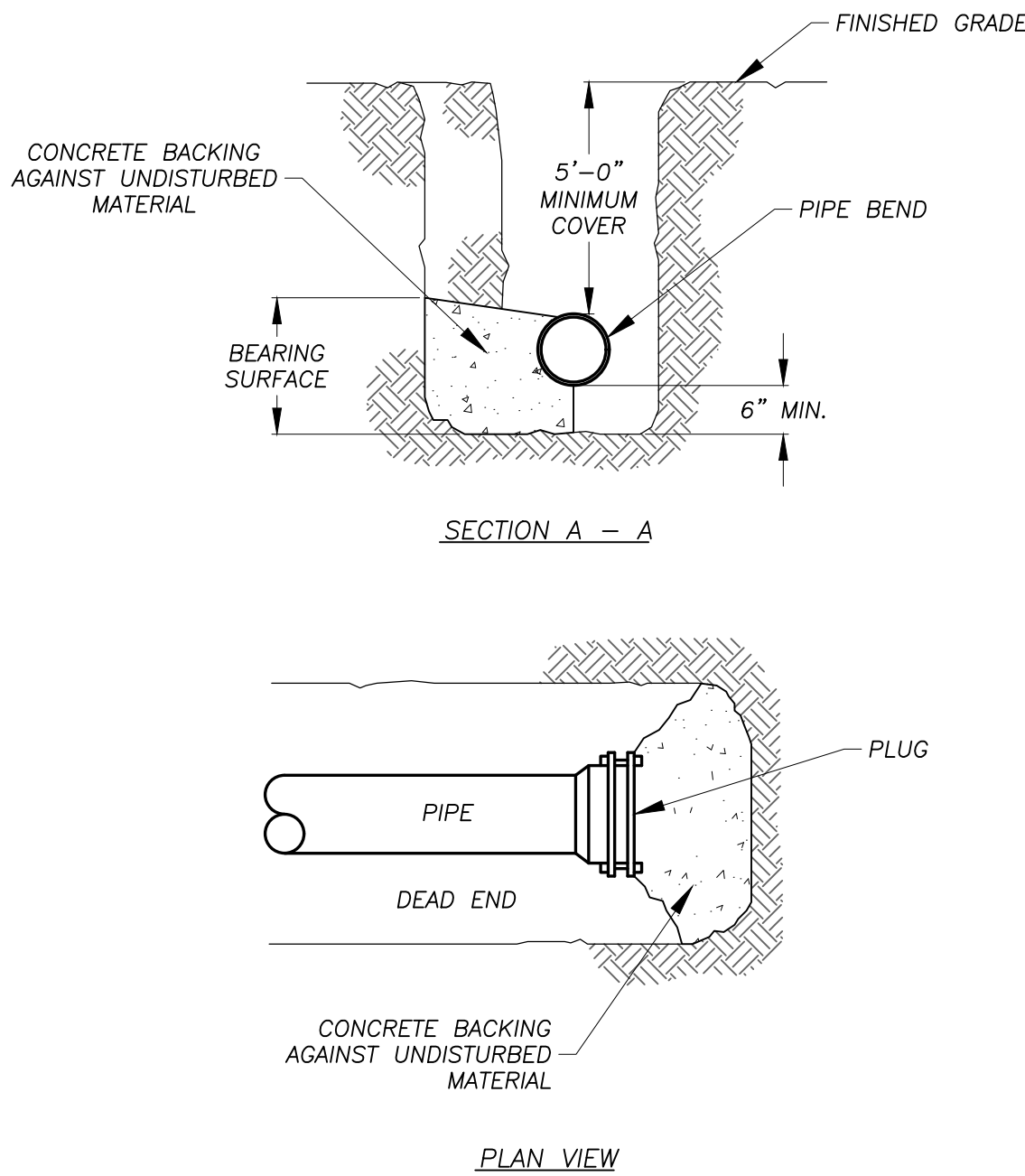
TYPICAL WATER SERVICE CONNECTION
NO SCALE



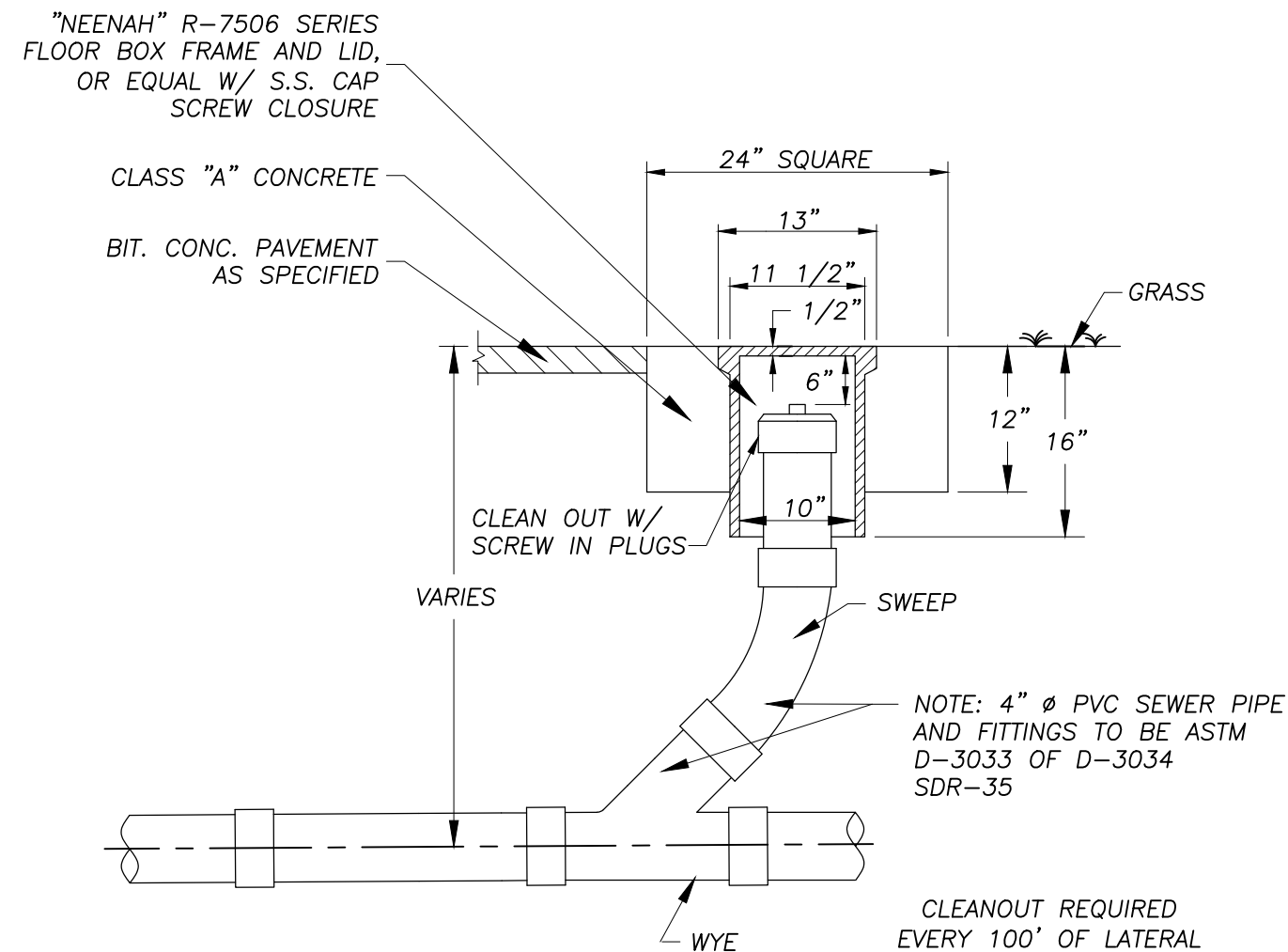
FIRE HYDRANT DETAIL
NO SCALE



WATER MAIN · HORIZONTAL THRUST BLOCK DETAILS
NO SCALE



TYPICAL BUILDING SEWER CONNECTION DETAIL
NO SCALE



TYPICAL SANITARY CLEANOUT
NO SCALE

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RLA
R LEVESQUE ASSOCIATES INC.
Landscape Architects
Civil Engineers · Land Surveyors
Environmental Consultants
ph: 413.568.0985 fax: 413.568.0986
40 School Street
Westfield, MA 01085
rlaland.com

DETAILS
1422 Main Street
Agawam, MA
Map K4 Block I Parcels 5, 6, 7, & 13

PREPARED FOR:
Kenny Patel
Shield Hotels
63 Myron Street
West Springfield MA.

ISSUANCE DATE: May 23, 2024

REVISIONS:

DRAFTED BY: M.B. & J.T.

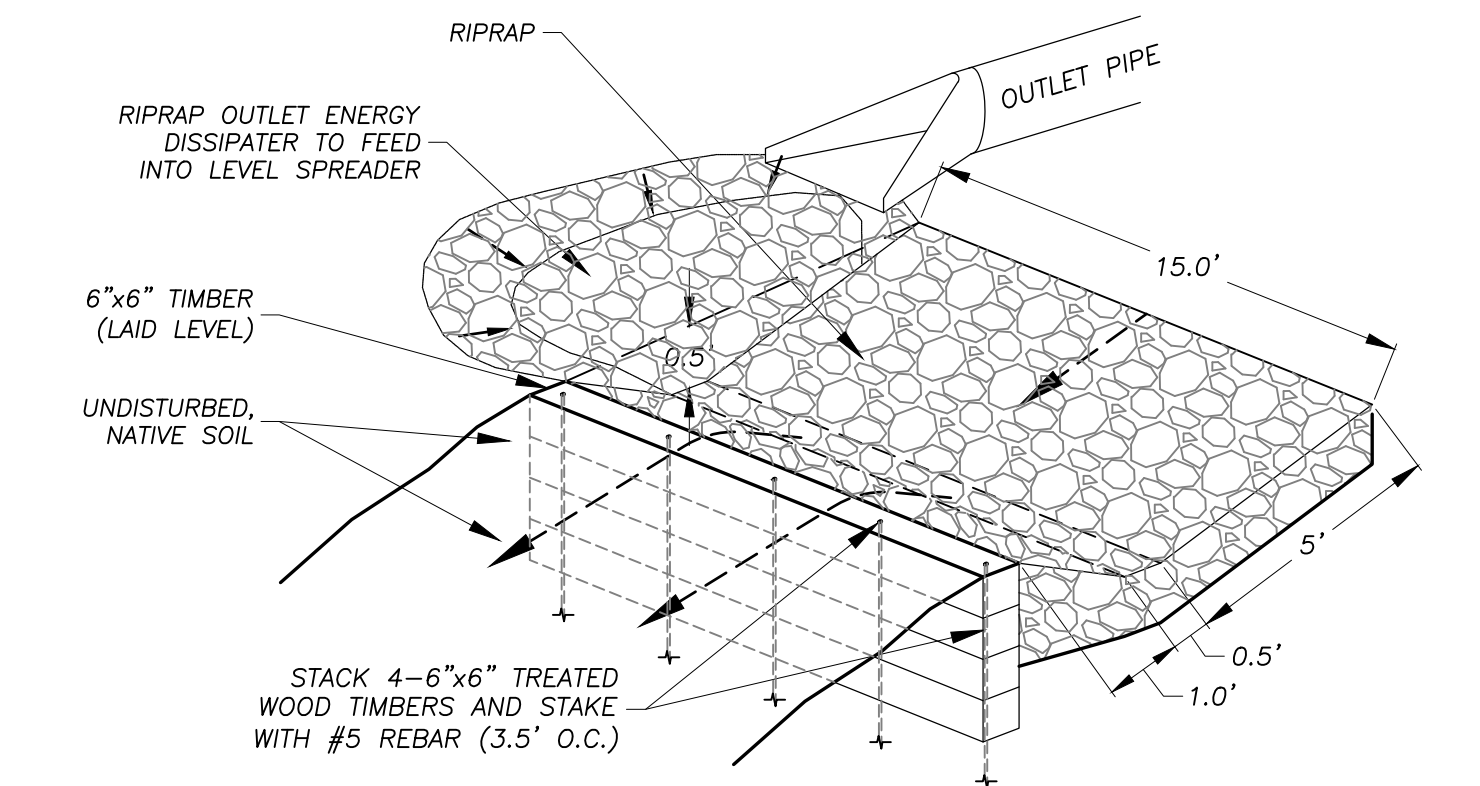
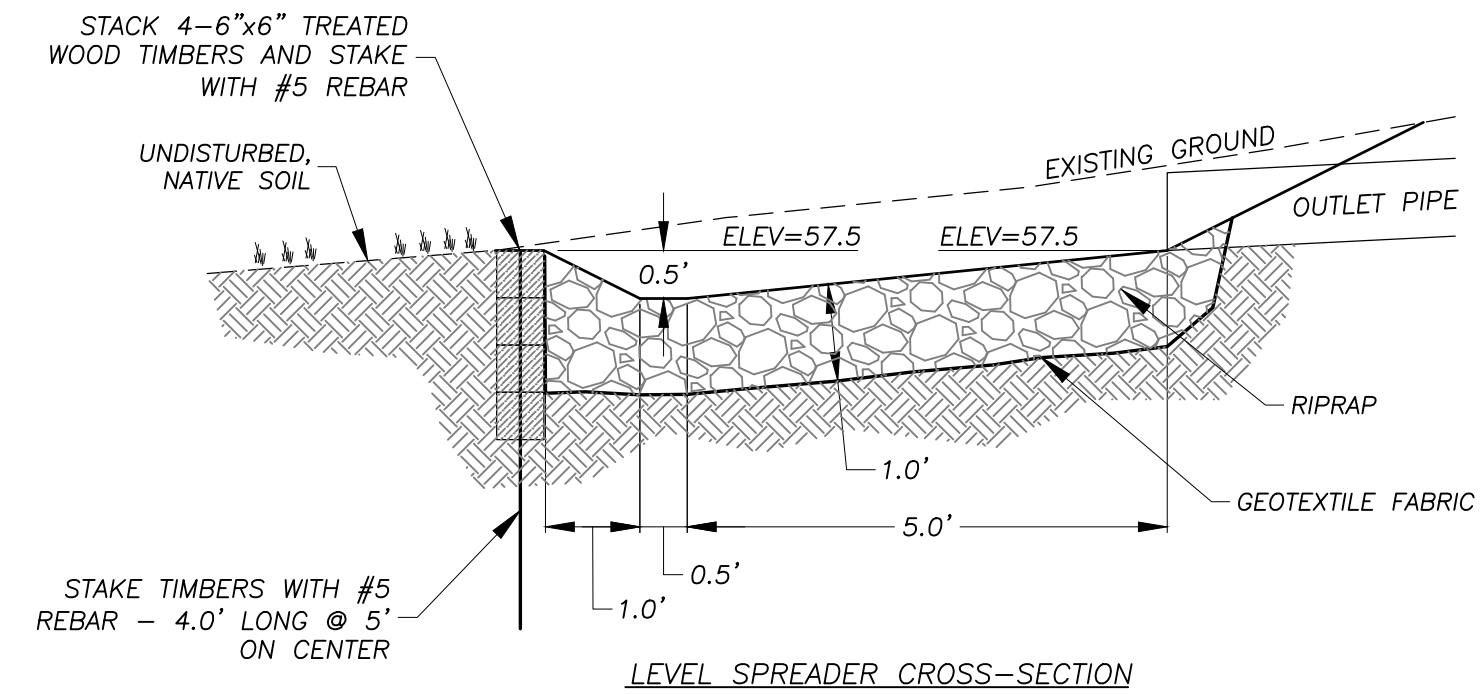
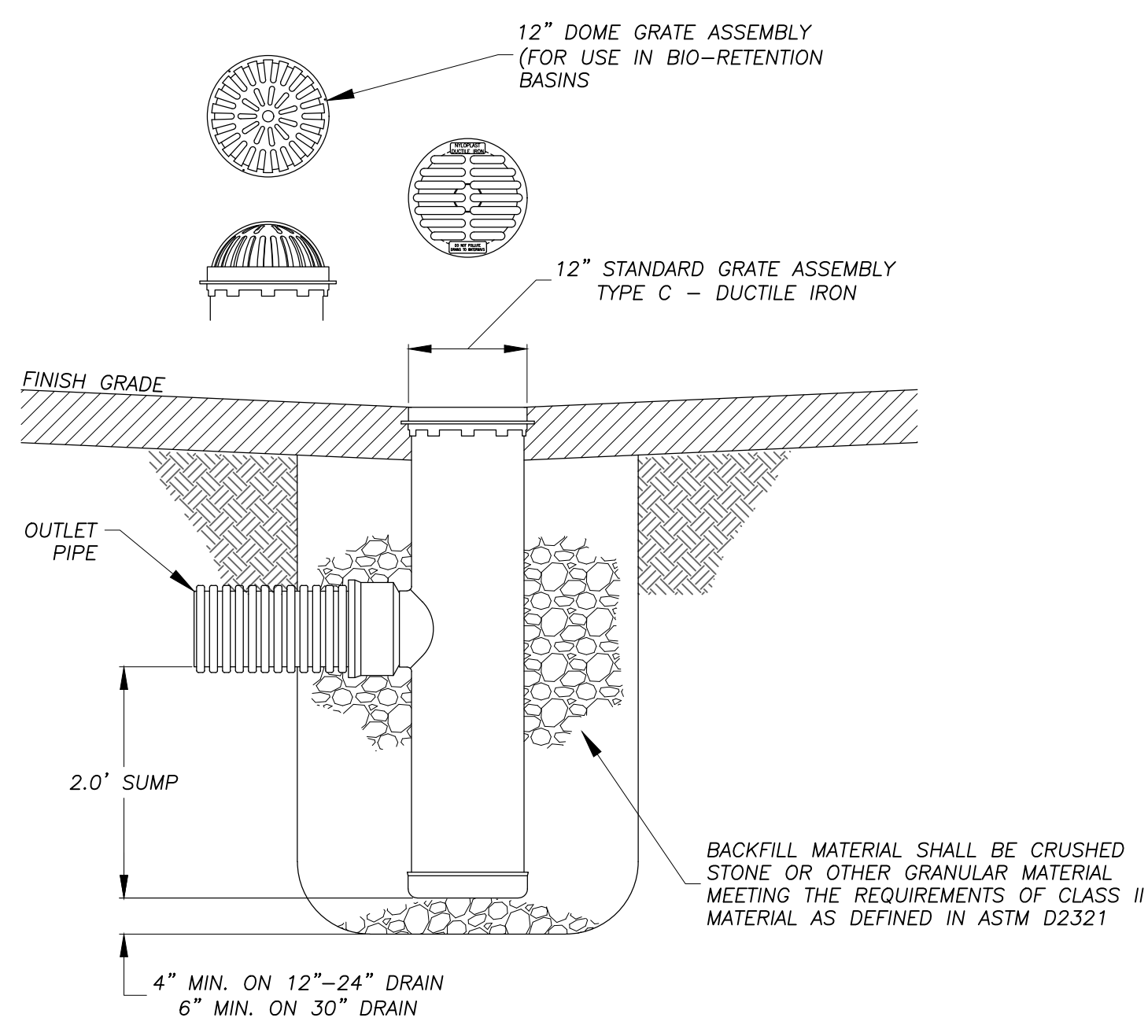
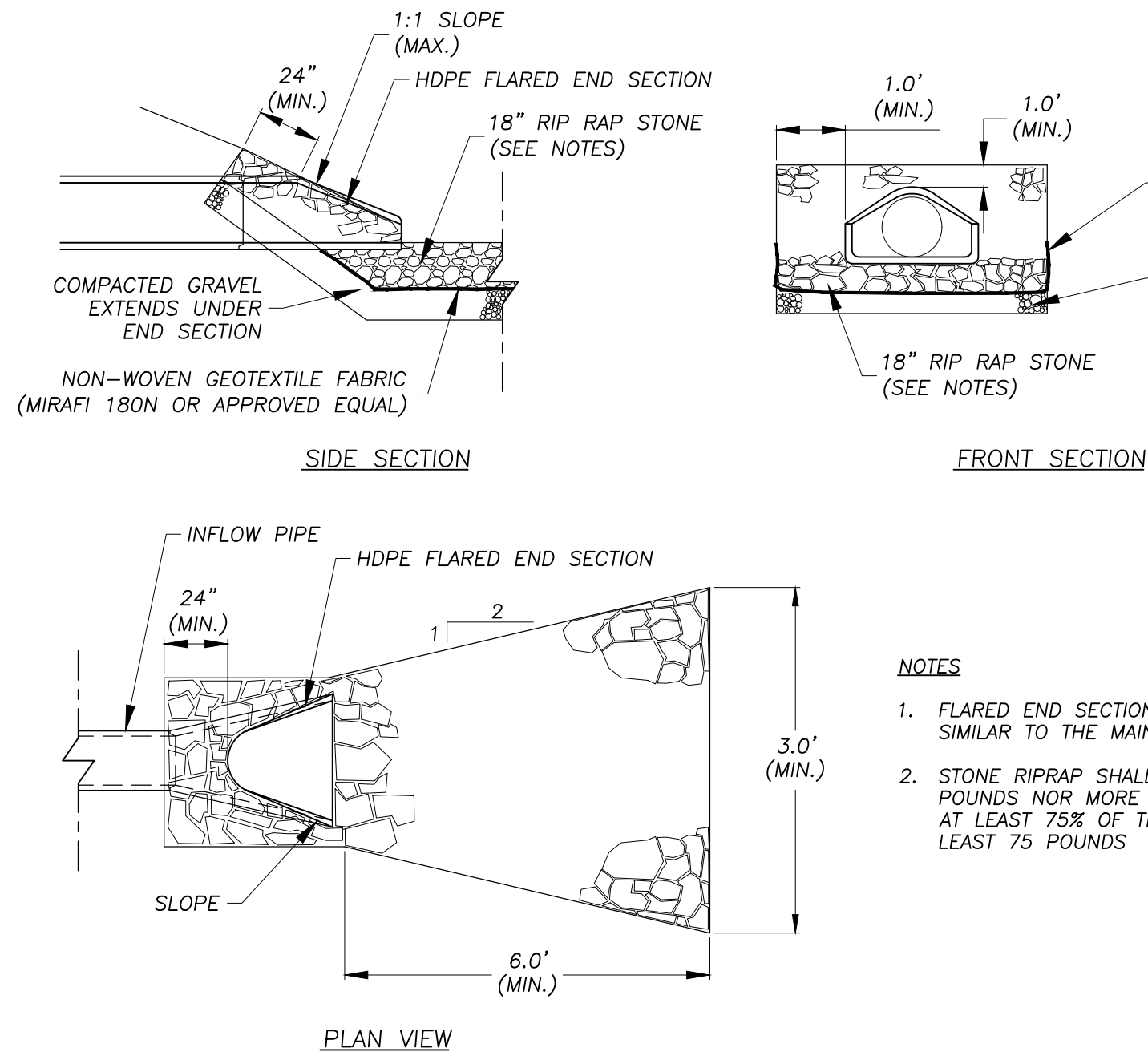
SCALE: As Noted

RLA PROJ. NUMBER: 231007

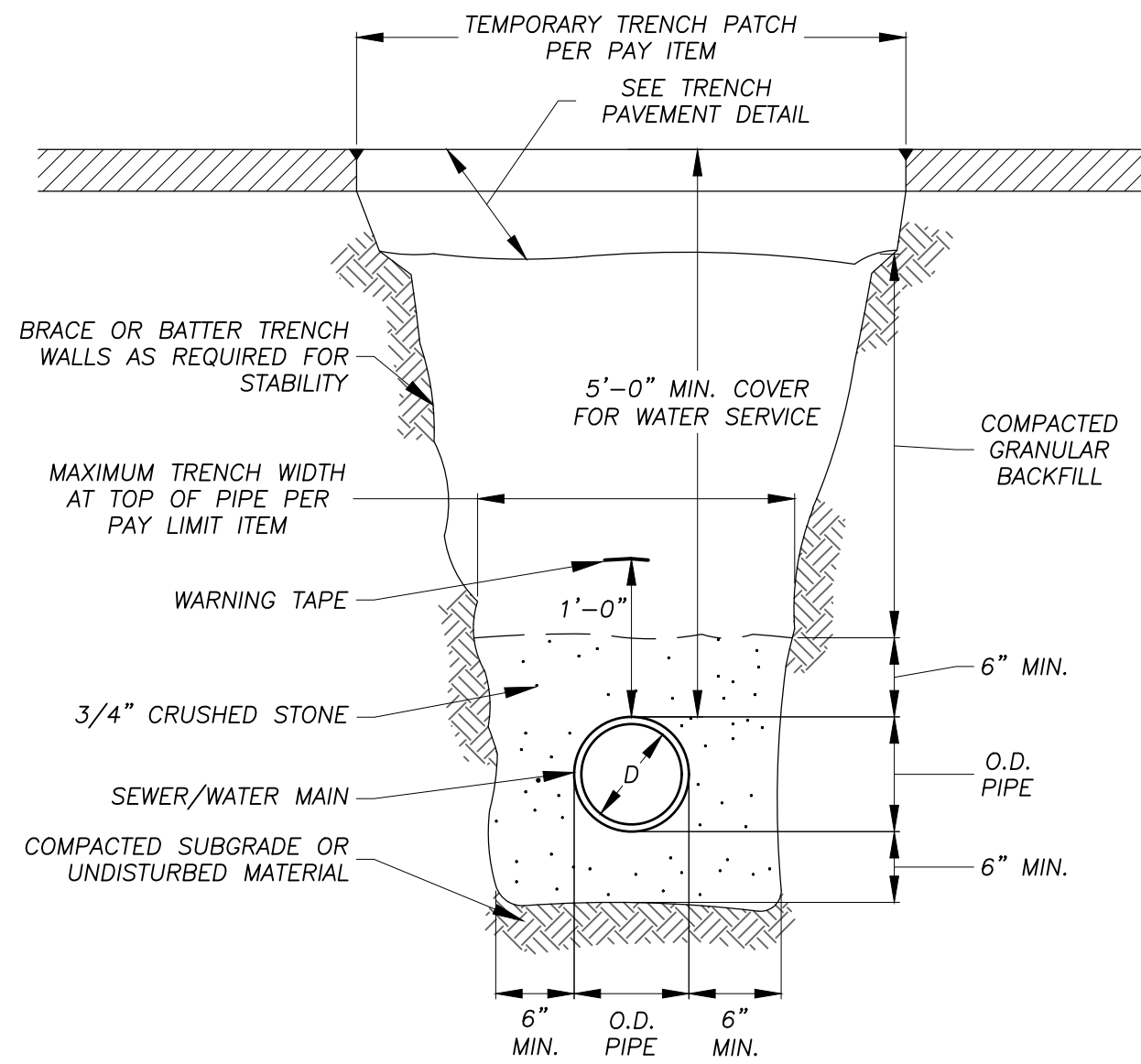
DRAWING# **REV.**

D-3 **-**

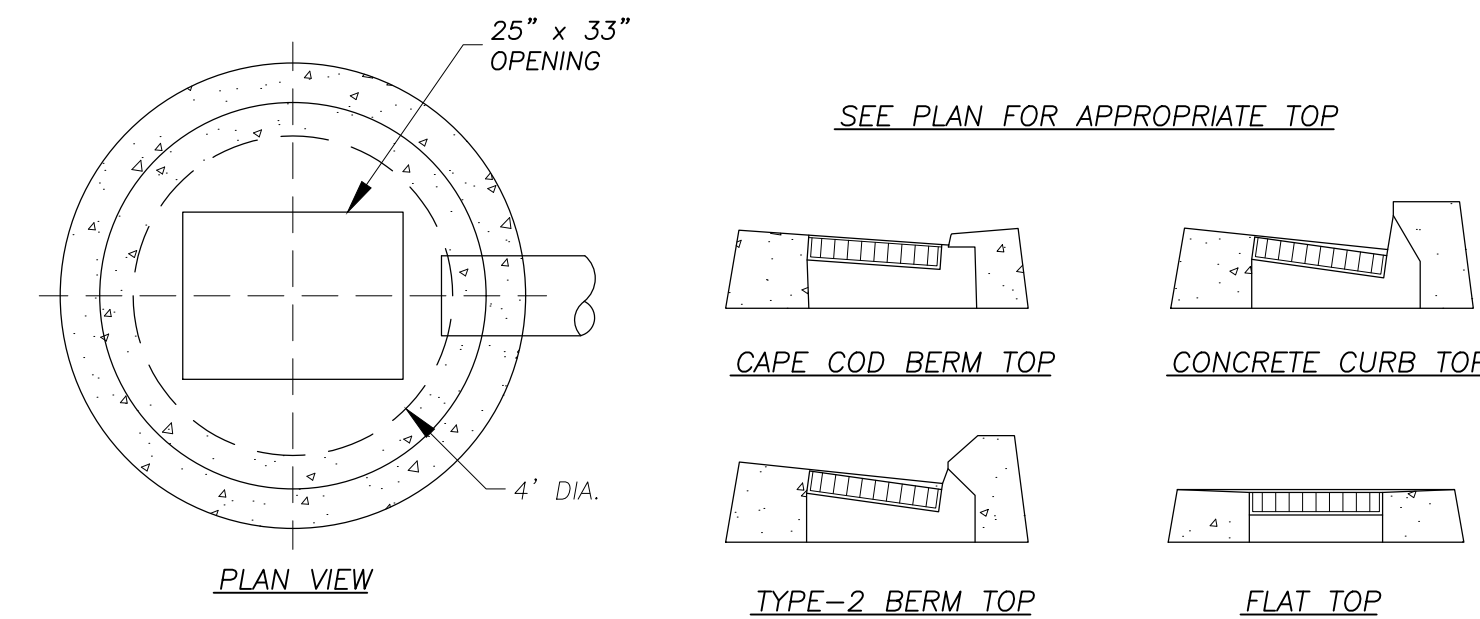
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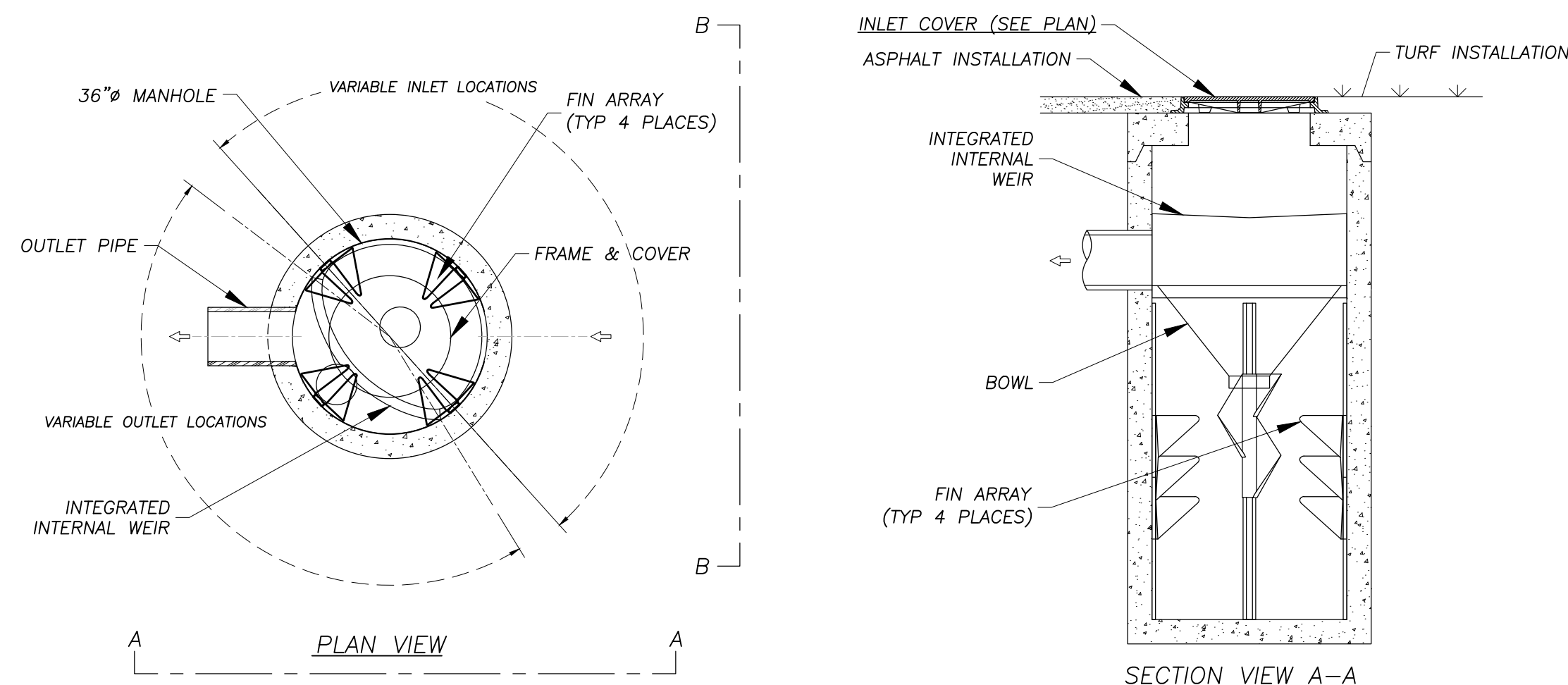
- NOTES**
1.) LEVEL SPREADER SHALL BE INSTALLED WITH A LEVEL INSTRUMENT. CONSTRUCT LEVEL UP TO 0% GRADE TO ENSURE UNIFORM SHEET FLOW. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL.
2.) CONSTRUCTION OF LEVEL SPREADER SHALL BE FROM UPHILL SIDE ONLY. LEVEL LIP AND AREA BELOW SPREADER SHALL BE AT EXISTING GRADES AND UNDISTURBED BY EARTHWORK OR EQUIPMENT.
3.) CONSTRUCT SPREADER WITH LIP AT EXISTING GRADE AS SPECIFIED.
4.) DOWNGRADIENT RECEIVING AREA MUST BE NATURALLY WELL VEGETATED.



- TRENCH NOTES**
1. TRENCHES LOCATED ON THE ROAD SHOULDER SHALL BE TREATED THE SAME AS STREET EXCEPT FOR PAVING.
2. PROVIDE AT LEAST ONE IMPERVIOUS DAM-IN CRUSHED STONE BEDDING BETWEEN EACH MANHOLE WHERE DIRECTED, OR EVERY 300 FT., WHICHEVER IS LESS.
3. COMPACT ALL BACKFILL MATERIAL TO A MINIMUM DENSITY OF 95 PERCENT OF THE STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698.
4. PLACE BACKFILL MATERIALS IN MAXIMUM ONE FOOT LIFTS.
5. THE INSTALLATION OF PVC SEWER PIPE SHALL CONFORM TO ASTM STANDARD D-2321.
6. AT LOCATIONS WHERE NEW SEWER CROSSES AN EXISTING WATER MAIN, SUPPORT PIPE THROUGH CONSTRUCTION AND BACKFILL TRENCH WITH FLOWABLE FILL. CONTRACTOR SHALL LOCATE NEW SEWER JOINTS AS FAR AWAY FROM CROSSING OF NEW SEWER AND EXISTING WATER MAIN AS POSSIBLE.
7. DUCTILE IRON WATER MAIN PIPING TO BE PROTECTED WITH POLYETHYLENE ENCASEMENT.
8. BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE O.S.H.A. SAFETY REGULATIONS. ALL SUCH TRENCH PROTECTION TO BE RESPONSIBILITY OF CONTRACTOR



- DESIGN NOTES**
1. CONCRETE: 5,000 PSI, 28 DAYS
2. REINFORCING STEEL CONFORMS TO LATEST ASTM A615 AND A82 OR A185 SPECS.
3. MANHOLE DESIGN SPECS. CONFORM TO LATEST ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS"
4. H-20 DESIGN LOADING PER AASHTO HS-20-44
5. BUTYL RUBBER JOINT SEALANT CONFORMS TO LATEST ASTM C990-91 SPEC., FED. SPEC. SS-S-210 (210A), AND AASHTO M-198B



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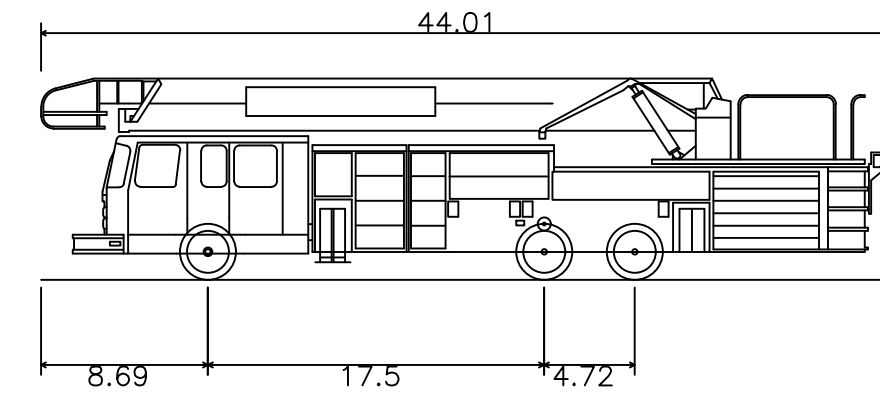
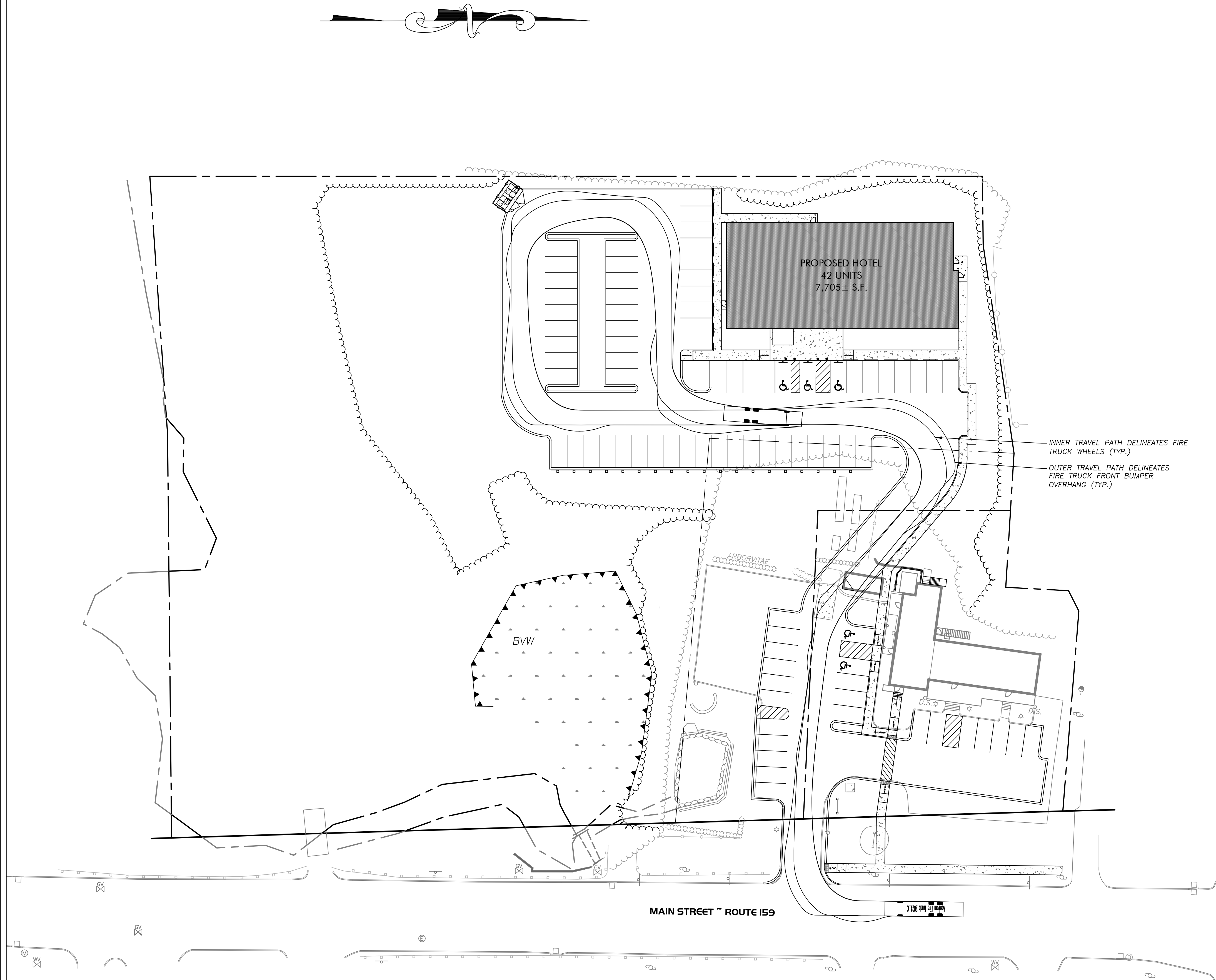
DETAILS
1422 Main Street
Agawam, MA
Map K4 Block I Parcels 5, 6, 7, & 13



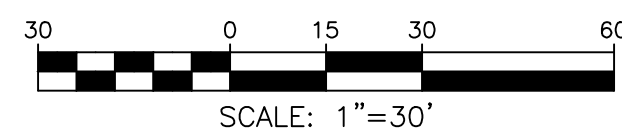
PREPARED FOR: Kenny Patel Shield Hotels 63 Myron Street West Springfield MA.	
ISSUANCE DATE: May 23, 2024	
REVISIONS:	DATE:
A. Peer review comments	9/9/24
B. Engineering & peer review comments	9/24/24
DRAFTED BY: M.B. & J.T.	
UNAUTHORIZED ALTERATION OF THIS DOCUMENT IS A VIOLATION OF MASSACHUSETTS STATE LAW	
SCALE: As Noted	
RLA PROJ. NUMBER: 231007	
DRAWING#	REV.
D-4	B

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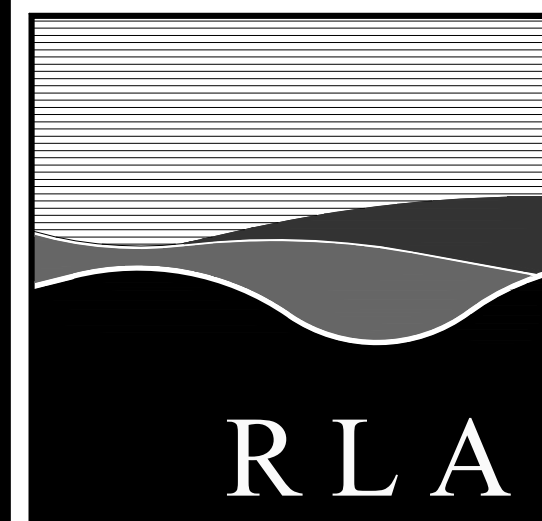
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Agawam Fire Truck 2024_C
Overall Length 44.010ft
Overall Width 8.330ft
Overall Body Height 10.482ft
Min Body Ground Clearance 0.913ft
Track Width 8.290ft
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 37.250ft



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R L A

R LEVESQUE ASSOCIATES INC

Landscape Architects
Civil Engineers - Land Surveyors
Environmental Consultants

ph: 413.568.0985 fax: 413.568.0986

40 School Street
Westfield, MA 01085
rlaland.com

VEHICLE SWEEP PATH

**1422 Main Street
Agawam, MA
Map K4 Block I Parcels 5, 6, 7, & 13**

PREPARED FOR:

Kenny Patel
Shield Hotels
63 Myron Street
West Springfield MA.

ISSUANCE DATE: August 1, 2024	
REVISIONS:	DATE:
A. Layout updated	9/24/24
B. Layout revised per Fire Dept. review	10/10/24
C. Fire vehicle specs updated	10/11/24

DRAFTED BY: M.B. & J.T.

UNAUTHORIZED ALTERATION OF THIS DOCUMENT IS A VIOLATION OF MASSACHUSETTS STATE LAW

SCALE: As Noted

RLA PROJ. NUMBER: 231007

DRAWING#	REV.
VEH-1	C

Taryn Egerton

From: Taryn Egerton
Sent: Wednesday, October 23, 2024 11:25 AM
To: Nina Fazio
Subject: FW: 1422 Main Street - Swept Path Analysis

From: Derek Myers <afdinsp@agawam.ma.us>
Sent: Tuesday, October 15, 2024 2:52 PM
To: John Tomaszewski <JohnT@rlaland.com>
Cc: Taryn Egerton <TEgerton@agawam.ma.us>
Subject: RE: 1422 Main Street - Swept Path Analysis

John,
The new swept path plan that was submitted is approved (Drawing# VEH-1...Rev. C)
Thank You

If you have any question please feel free to contact this office at (413)786-0657

Derek Myers
Fire Inspector
Agawam Fire Department
afdinsp@agawam.ma.us
(413)786-0657

From: John Tomaszewski <JohnT@rlaland.com>
Sent: Friday, October 11, 2024 4:43 PM
To: Derek Myers <afdinsp@agawam.ma.us>
Cc: Rob Levesque <RobL@rlaland.com>; Filipe Cravo <filipec@rlaland.com>; Nina Fazio <NinaF@rlaland.com>
Subject: 1422 Main Street - Swept Path Analysis

Good afternoon Derek,

Please find attached an updated swept path analysis for the Main Street/hotel site with revised layout and the new truck specs. Please confirm receipt and let us know if you have any questions or concerns.

Regards,

John Tomaszewski

JohnT@rlaland.com
R Levesque Associates, Inc.
40 School Street
P.O. Box 640



Town of Agawam

Department Of Public Works

DPW
1000 Suffield Street
Agawam, MA 01001
Phone: 413-821-0600
Fax: 413-821-0631

MEMORANDUM

To: Conservation Commission
CC: File
From: Engineering Division
Date: October 24, 2024
Subject: SP 665 – NOI for Proposed Hotel – #1422-1444 Main Street

Per your request, we have reviewed the revised Site Plans and accompanying documentation for the Proposed Hotel to be located at #1422-1444 Main Street; Prepared by R Levesque Associates Inc.; Revised: October 18, 2024. Based on our review, we have no additional comments at this time.

Engineering reserves the right to make additional comments as new information is submitted. If you have any questions, please do not hesitate to contact this division.

Sincerely,

Michelle C. Chase, P.E.
Town Engineer

Michael F. Albrow, P.E.
Assistant Town Engineer

R LEVESQUE ASSOCIATES, INC.

40 School Street, P.O. BOX 640, Westfield, MA 01085

p 413.568.0985 · f 413.568.0986 · www.rlaland.com



October 21, 2024

Via email: emily@stockmanassociates.com

Emily Stockman, MS, PWS
Stockman Associates, LLC - Senior Scientist/Principal
PO Box 9
Adams, Massachusetts 01220

RE: Project Update – 1422-1444 Main Street, Agawam (DEP File #087-07000)

Dear Ms. Stockman:

We are writing to provide you with updated site plan information for the proposed hotel and associated site improvements located at 1422-1444 Main Street in Agawam for Shields Hotels.

Based on recent feedback received from the Town of Agawam Fire Department regarding truck turning movements, we were required to make adjustments to our site plan to accommodate the turning movements for a new fire truck. These updates resulted in minor modifications to site circulation and necessitated adjustments to the edge of pavement, which required the installation of a retaining wall at the front of the parking area on the east side.

Consequently, Riverfront Area calculations were updated to reflect the adjustments made to the site plan. We believe all other items from your previous review letters have been addressed as well.

Please find the updated drawings, dated October 21, 2024, attached for your review. We have a public hearing scheduled for Thursday, October 24, 2024, and we are looking forward to closing this matter out.

Should you have any questions or need further clarification, please don't hesitate to contact our office at your convenience.

Thank you for your continued assistance.

Sincerely,
R LEVESQUE ASSOCIATES, INC.

Robert M. Levesque, RLA, ASLA
President

A LAND PLANNING SERVICES COMPANY

Taryn Egerton

From: Derek Myers
Sent: Thursday, September 5, 2024 10:37 AM
To: Taryn Egerton
Subject: 195 S Westfield St.

Taryn,

I have no comments for the site plan for the existing structure at 190 S Westfield St.

If you have any question please feel free to contact this office at (413)786-0657

Derek Myers
Fire Inspector
Agawam Fire Department
afdinsp@agawam.ma.us
(413)786-0657

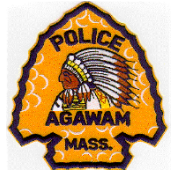
Append the message with the disclaimer 'Confidentiality/Public Record Statement. Under Massachusetts Law, any email created or received by an employee of The Town of Agawam is considered a public record. All email correspondence is subject to the requirements of M.G.L. Chapter 66. This email may contain confidential and privileged material for the sole use of the intended recipient. Any review or distribution by others is strictly prohibited. If you are not the intended recipient please contact the sender and delete all copies. '. If the disclaimer can't be applied, attach the message to a new disclaimer message.



AGAWAM POLICE DEPARTMENT

681 Springfield Street, Feeding Hills, MA 01030
Telephone (413)786-4767 | FAX (413)786-4821

Eric P. Gillis
Chief of Police



To: Planning Board

From: Sergeant Brian Machos- Safety Officer

Date: September 4, 2024

Re: 195 South Westfield Street

I have reviewed the current site plans for the existing building at 195 South Westfield Street. At this time, I do not have any safety issues pertaining to the addition of parking spaces along the rear of the property. The parking spaces located along the front of the property could pose a challenge when trying to exit, given the close proximity to the traffic light at the corner of Shoemaker Lane and South Westfield Street. The location of the handicap parking space could potentially create a line of sight issue for the property owner located to the immediate north on South Westfield Street when trying to exit their driveway.



Town of Agawam

Inspection Services Department

1000 Suffield Street, Agawam, Massachusetts 01001

Telephone - (413) 821-0632

Kevin Duquette

Inspector of Buildings
inspections@agawam.ma.us

August 29, 2024

To: Office of Planning and Community Development:

Re: Site Plan Review comments for 195 South Westfield Street:

Inspection Services has no zoning issues or concerns for the existing property on the proposed site plan approval for the above referenced address. See below for additional comments.

The original request from the applicant back in 2023 was for a used car dealer's license. At that time the applicant was advised a site plan will be required for this request. The Law Department also advised the applicant at that time the Town was working on an ordinance amendment for dealer license approvals.

Original zoning determination was reflected for a single use occupancy for the building as an auto repair facility. If the applicant chooses to have two business entities in the building, this will affect the amount of parking spaces required and allotted for a used dealer's license as the applicant needs to provide sufficient business use parking and allotted vehicle spaces for a dealer's license.

Inspection Services has issued numerous violation notices and fines to this nuisance property for the continuation of exterior storage of unregistered vehicles and exterior storage of junk automotive parts. The collection of the unpaid fines of \$450.00 should be paid by the owner prior or conditional to the Board's final approval of a site plan.

Respectfully,

Kevin Duquette
Inspector of Buildings
Town of Agawam

ZONING REVIEW - Business A (BA)		
TYPE (MINIMUM)	REQUIRED	PROPOSED
AREA	N.R.	12,543 S.F.
FRONTAGE	N.R.	211.77' (TOTAL)
FRONT YARD	35 FT	21.6'
SIDE YARD	N.R.	10.7'
REAR YARD	25 FT	-
HEIGHT (MAX)	45 FT / 3 STORIES	1 STORY
BUILDING COVERAGE (MAX)	50%	31.7%

TYPE (MINIMUM)	REQUIRED	PROPOSED
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REAR YARD	25 FT	-
HEIGHT (MAX)	45 FT / 3 STORIES	1 STORY
BUILDING COVERAGE (MAX)	50%	31.7%

N.R. = NO REQUIREMENT

NOTES

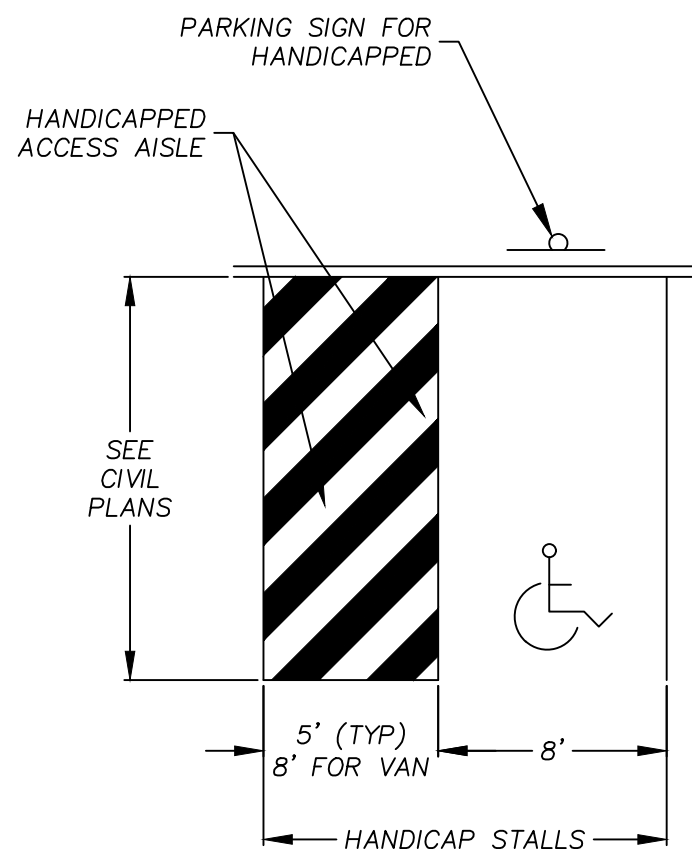
1. THE RECORD OWNER OF THE SUBJECT PARCEL IS AHMAD ALJANABI. SEE HAMPDEN COUNTY REGISTRY OF DEEDS BOOK 24568 PAGE 307.
2. SEE ALSO HAMPDEN COUNTY REGISTRY OF DEEDS:
 - PLAN BOOK 51 PAGE 122
 - PLAN BOOK 112 PAGE 33
 - PLAN BOOK 286 PAGE 4
3. THIS PLAN HAS BEEN PREPARED FOR SITE PLANNING PURPOSES AND SHALL NOT BE USED FOR THE CONVEYANCE OF LAND OR FOR ANY OTHER USE.
4. SUBJECT PARCEL CONTAINS 12,543 S.F.
5. THE SUBJECT PROPERTIES SHOWN HEREON MAY BE SUBJECT TO RIGHTS AND EASEMENTS AS CONTAINED IN THE VARIOUS DEEDS OF RECORD DESCRIBING SAID PROPERTIES. THE LOCATION AND EXTENT OF ANY SUCH RIGHTS AND EASEMENTS IS NOT THE SUBJECT OF THIS PLAN.
6. THE EXISTING CONDITIONS INFORMATION SHOWN IS BASED UPON A TOPOGRAPHIC SURVEY PERFORMED BY R LEVEQUE ASSOCIATES, INC. ON FEBRUARY 15, 2024.
7. THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION, DISCAGE MARKINGS, AND AVAILABLE RECORD DATA. R LEVEQUE ASSOCIATES, INC. MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. R LEVEQUE ASSOCIATES, INC. FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN HERE ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION.
8. ADJACENT PROPERTY LINES AND ABUTTERS SHOWN HEREON ARE REFERENCED FROM THE TOWN OF AGAWAM WEI GIS.
9. THE SUBJECT PARCEL IS ZONED BUSINESS A ACCORDING TO THE TOWN ZONING MAP.
10. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD ZONE AREA ACCORDING TO FLOOD INSURANCE RATE MAP NUMBER 25013C0391E – EFFECTIVE DATE: 7/16/2013.
11. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN NATURAL HERITAGE AND ENDANGERED SPECIES (NHESP) PROGRAM JURISDICTION.

SIGNAGE AND PAVEMENT MARKING NOTES

1. STRIPE ALL PARKING AREAS AS SHOWN, INCLUDING PARKING SPACES, STOP BARS, CROSSWALKS, AND ACCESSIBLE ROUTE MARKINGS AND SYMBOLS USING WHITE TRAFFIC PAINT. PAINTED ISLANDS, FIRE LANES, AND TRAVEL WAY CENTERLINES SHALL BE PAINTED USING YELLOW TRAFFIC PAINT. ALL TRAFFIC PAINT SHALL CONFORM TO AASHTO M248 TYPE "N".
2. STOP BARS SHALL BE 12" WIDE (WHITE).
3. ALL PARKING STALL LINES SHALL BE 4" WIDE (WHITE).
4. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", MASSDOT, STATE BUILDING CODE AND ADA REQUIREMENTS, AND AS SHOWN ON THE PLANS & DETAILS.

ACCESSIBILITY NOTES

1. ALL ACCESSIBLE ROUTES, TRANSITIONS, AND ACCESSIBLE PARKING/LOADING AREAS, INCLUDING ALL ENTRANCES TO BUILDING, SHALL ADHERE TO 521 CMR.
2. SHOULD THE ARCHITECT PROVIDE ADDITIONAL ENTRANCES OR MEANS OF EGRESS, ADDITIONAL ACCESSIBLE ROUTES MAY BE REQUIRED.
3. IT IS THE RESPONSIBILITY OF THE ARCHITECT AND CONTRACTOR TO NOTIFY THE ENGINEER AND LANDSCAPE ARCHITECT OF ANY CHANGES TO THE PROPOSED BUILDING THAT WOULD AFFECT THE ACCESSIBILITY REQUIREMENTS OF THE PROPOSED SITE.
4. THE CONTRACTOR SHALL REVIEW IN DETAIL THE REQUIREMENTS OF 521 CMR AND SHALL BE RESPONSIBLE FOR CONFORMANCE WITH SAID REGULATIONS.

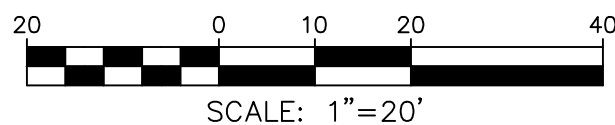


NOTES:

1. ALL DIMENSIONS TO CENTER OF 4" PAVEMENT STRIPING.
2. ALL STRIPING SHALL BE 4" SOLID WHITE PAVEMENT MARKING PAINT UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO ENSURE HANDICAP ACCESSIBLE PARKING SPACE SHALL HAVE A SLOPE OF 2% OR LESS IN ALL DIRECTIONS.

HANDICAP PARKING STALL

NO SCALE



Site Plan Approval Application

Proposed Building Reuse

Project Location:

195 South Westfield Street
Agawam, Massachusetts 01001
(Assessor's Parcel ID: E8-3-10)

Submitted To:

Town of Agawam Planning Board
36 Main Street
Agawam, Massachusetts 01001

Applicant & Property Owner:

Ahmad Aljanabi
133 Upper Beverly Hills
West Springfield, Massachusetts 01089

RLA Project File No. 230917

August 22, 2024

R LEVESQUE ASSOCIATES, INC.

A LAND PLANNING SERVICES COMPANY

40 School Street, Westfield, MA 01085

p 413.568.0985 · f 413.568.0986 · www.rlaland.com



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4. LOCUS MAP
5. DEED REFERENCE

LIST OF APPENDICES

APPENDICES

APPENDIX A: SITE PLAN

I. COVER LETTER

R LEVESQUE ASSOCIATES, INC.

40 School Street, P.O. BOX 640, Westfield, MA 01085

p 413.568.0985 · f 413.568.0986 · www.rlaland.com



August 22, 2024

Violet Baldwin, Chairperson
Town of Agawam Planning Board
36 Main Street
Agawam, Massachusetts 01001

**RE: Site Plan Approval – Proposed Building Reuse
195 South Westfield Street
Agawam, Massachusetts 01001
(Assessor's Parcel ID: E8-3-10)
RLA Project File No. 230917**

Dear Chairperson Baldwin and Board Members:

On behalf of the applicant and property owner, Mr. Ahmad Aljanabi, please find the requisite number of copies of a Site Plan Approval application, supporting documentation, and associated site plan set for the above-referenced project. The applicant proposes the reuse of the existing building to be used for office space for a Foster Care facility and an automotive repair garage.

As required, a copy of this Site Plan Approval submission has been submitted electronically via email to the Town of Agawam Planning Department.

We are requesting to be placed on the Planning Board's next available agenda. Should you have any questions or comments regarding this submission, please do not hesitate to contact our office at your earliest convenience.

Sincerely,
R LEVESQUE ASSOCIATES, INC.

Nina Fazio

Nina Fazio
Permitting Coordinator

cc: Ahmad Aljanabi

A LAND PLANNING SERVICES COMPANY

2. ADMINISTRATIVE FORMS

2.1 ZONING DETERMINATION

2.2 SITE PLAN APPROVAL APPLICATION – FORM D



The Commonwealth of Massachusetts
Town of Agawam
Inspection Services - Building Department
1000 Suffield Street, Agawam MA 01001 – (413) 821-0632

OFFICE ONLY

Date Filed:

RECEIVED BY
INSPECTION SERVICES

MAR - 1 2023

TOWN OF AGAWAM

Application for Zoning Determination

FILING INSTRUCTIONS: Deliver this form (no fee required) to Inspection Services.

For digital submissions, please confirm receipt. A complete application will be processed within 30 days.

The applicant must pick-up, or arrange for the receipt of, this processed form.

1) PROPERTY INFORMATION

a. Street Address	195 Westfield St	b. Zoning District	Bos A
c. Assessor's Map	E8 3-10	d. Lot(s)	
e. Registry of Deeds Book		f. Page	
g. Overlay Districts	☐ Historic Preservation ☐ Mixed-Use Business C		
h. Previous Special Permits, Site Plan Approvals, Findings or Variances Issued for this Site			

2) APPLICANT & OWNER INFORMATION

a. Applicant Name	Armed Arianabi	b. Applicant Phone	413-314-7566
c. Applicant Email			
d. Applicant Mailing Address	133 Upper Beverly Hills 01089		
e. Applicant Relationship to Property	☒ Owner ☐ Agent ☐ Other:		
f. Representative Name (if any)		g. Rep. Phone	
h. Rep. Email			
i. Owner Mailing Address			
j. Owner Name (if different)		k. Owner Phone	
l. Owner Email			
m. Owner Mailing Address			

3) PROJECT & SITE DETAILS

NOTE: Any omission of requested information may result in an **INCOMPLETE** determination

	Existing		Proposed		-FOR BUILDING DEPT. REVIEW- REQUIRED / NCU	
			☒ No changes to building, site or lot			
a. Lot Size	SF		SF		LOT SIZE	☐
b. Frontage	FT		FT		FRONTAGE	☐
c. Front Lot Line	FT		FT		FRONT SB	☐
d. Side Lot Line (Left/Right)	L: FT	R: FT	L: FT	R: FT	SIDE SB	☐
e. Rear Lot Line	FT		FT		REAR SB	☐
f. Building Height	FT		FT		BLDG HT	☐
g. Total BLDG/Res Area	SF	SF	SF	SF	AREA LIM	☐
h. BLDG Coverage (Footprint)	SF	% of lot	SF	% of lot	LOT COVER	☐
i. Impervious Coverage	SF	% of lot	SF	% of lot	IMPERVIOUS	☐
j. Parking/Loading Spaces	P:	L:	P:	L:	PARKING	☐
k. Bicycle/EV Charge Spaces	B:	EV:	B:	EV:	BIKE/EV	☐
l. Signs (Size & Type)	x	T:	x	T:	SIGNS	☐
m. Fence (Size & Type)	LIN FT	T:	LIN FT	T:		
n. Wetland Area	SF		SF			
o. Utility Services	☐ Town Water ☐ Town Sewer		☐ Town Water ☐ Town Sewer		NON-CONFORMING USE	☐

p. Current Use of Property		Vacant
q. Proposed Use of Property		Auto repair
r. Project Description		
Auto repair		
s. I have attached additional narrative, plans or supporting materials (any oversize plans should also be included in an 8.5 x 11" format)		☐ Yes ☒ No
t. Work is proposed in or within 100' of a wetland or 200' of a stream/river, or construction will occur within the Floodplain district. If so, CONSERVATION COMMISSION review is required.		☐ Yes ☐ No ☒ Unsure
u. The following projects shall be required to comply with the requirements of a STORM DRAIN PERMIT :		
[1] Any alteration to sites on parcels of one acre or greater.		☐ Yes ☒ No ☐ Unsure
[2] Any alteration to individual lots less than one acre, but which are contiguous or are deemed part of a common project which is one acre or greater.		
v. The project will affect at least one of the following; additional gross floor area by 2,000 square feet, any change of use, changes to parking and/ or curb cuts.		☐ Yes ☒ No

4) CERTIFICATION

This determination is based only on the information provided, which I represent as accurate. The issuance of a Zoning Determination does not relieve the Applicant of the responsibility to obtain other zoning or non-zoning permits, as may be required, and this determination is based on the zoning in effect at the issue date and grants no protection from any pending or future zoning changes. Additional information may be requested and required to properly process this form. Any non-zoning related comments provided are cursory in nature; Applicants should follow-up with appropriate Town Departments. Sec. 1-7 of the Town of Agawam's General Ordinances authorizes the denial of a license or permit where an outstanding debt or obligation to the Town exists.

Signature		Date	3-1-23
-----------	---	------	--------

☒ Applicant ☐ Applicant's Representative

ZONING DETERMINATION - OFFICE USE ONLY

☐ Approved ☐ Denied: ☐ The proposed use is not permitted in the subject zoning district ☐ Only permissible with variance relief from the Zoning Board of Appeals			
☐ Approved Pending additional approval:			
Per Zoning Ordinance Section(s)	Required Permit(s)	Approval Required	Permitting Authority
180-7-C	☐ Building Permit(s)	☐ Special Permit(s)	☒ Planning Board
180-13-B	☐ Electrical Permit(s)	☒ Site Plan Review	☐ Board of Appeals
	☐ Plumbing/Gas Permit(s)	☐ Variance	☐ City Council
Town Building Official		Issue Date	3/1/2023

This determination may be appealable to the Zoning Board of Appeals under the provisions of MGL Ch. 40A Sec. 8.
Revised 09/08/2022

TOWN OF AGAWAM, MASSACHUSETTS

FORM D

Application for Site Plan Approval

Please complete the following form and electronically submit with site plans, completed Zoning Determination and Storm Water Management Report to: siteplan@agawam.ma.us in addition to sending four (4) hard copies of the Site Plan and one (1) hard copy of the Storm Water Management Report and completed Zoning Determination to:

Agawam Planning Department

36 Main Street

Agawam, MA 01001

August 22 20 24

1. Name of Business _____

Address _____

Phone # _____ email _____

2. Name of Applicant/Owner Ahmad Aljanabi

Address 133 Upper Beverly Hills, West Springfield, MA 01089

Phone # 413-314-7566 email stonemile174@gmail.com

3. Name of Engineer/Architect R Levesque Associates, Inc.

Address 40 School Street, Westfield, MA 01085

Phone # (413) 568-0985 email ninaf@rlaland.com

4. Please give a brief description of the proposed project:

The applicant proposes the reuse of the existing building for office space and an automotive repair garage. Please refer to the attached project narrative and associated site plan for further detail regarding the proposed project.

3. PROJECT NARRATIVE

PROJECT NARRATIVE TO SITE PLAN APPROVAL APPLICATION

For

PROPOSED BUILDING REUSE
195 SOUTH WESTFIELD STREET
AGAWAM, MASSACHUSETTS 01001
(ASSESSOR'S PARCEL ID: E8-3-10)

INTRODUCTION & PROPERTY DESCRIPTION

On behalf of the applicant and property owner, Ahmad Aljanabi, R Levesque Associates, Inc. is providing this project narrative as a supplement to the Site Plan Approval application for the proposed reuse of the existing building at the above-referenced property. The applicant proposes to use the existing building as an office space for a Foster Care facility and an automotive repair garage.

The subject property is located east of South Westfield Street and consists of approximately 0.26 ± acres (hereinafter referred to as the "project site"). The project site is shown on the associated site plan entitled "Existing Conditions/Site Plan", dated June 5, 2024, prepared by R Levesque Associates, Inc. Said property is recorded in the Hampden County Registry of Deeds in Book 24568, Page 307. A copy of the deed reference is included within this application packet under Section 5. The project site lies within the Business A (BA) zoning district according to the Town of Agawam Assessor's Database. A Locus Map is included within this application packet under Section 4.

EXISTING CONDITIONS & SURROUNDING LAND USES

The project site currently consists of an existing, vacant 1-story block building with associated access drives. In general, the topography of the site can be described as generally flat. Please refer to the accompanying existing conditions plan for further detail regarding the existing conditions of the property.

The project site is bound to the north by Residence A-2 zoned parcels, to the east by Business A (BA) zoned parcels, to the south by Shoemaker Lane, and to the west by South Westfield Street.

DETAILED PROJECT DESCRIPTION

The proposed project includes the reuse of the existing building for business uses, as well as associated site improvements, such as proposed parking. There are no proposed changes to the building itself.

PARKING & SITE CIRCULATION

As part of this project, provisions for a total of three (3) parking spaces are proposed, including one (1) of which is handicap and van accessible, as well as five (5) proposed unstriped vehicle storage spaces. According to the Town of Agawam Parking Guidelines, "Automotive Repair Garage" requires one (1) parking space for each 300 SF of floor area and one (1) parking space for each employee. According to the Town of Agawam Parking Guidelines, "Office" requires one (1) parking space for each 300 SF of floor area. Based on the operations of the proposed uses, the applicant anticipates the proposed parking, as shown, to be sufficient for the operation and utilization of the project site.

The applicant proposes to utilize existing curb cuts along South Westfield Street and Shoemaker Lane to access the project site. Please refer to the associated site plan for greater detail regarding the configuration of parking/drive aisle areas proposed on the project site.

[END OF PROJECT NARRATIVE]

4. LOCUS MAP

5. DEED REFERENCE

B-24568
P-307
(Locus)

Bk 24568 Pg 307 #32501
05-27-2022 @ 02:57p

MASSACHUSETTS STATE EXCISE TAX
HAMPDEN COUNTY REGISTRY OF DEEDS
Date: 05-27-2022 @ 02:57pm
Ct1#: 374 Doc#: 32501
Fee: \$775.20 Cons: \$170,000.00

QUITCLAIM DEED

I, CAROL A. BARNES, a married woman, of 212 Feeding Hills Road, Southwick, Hampden County, Massachusetts, for consideration paid, and in full consideration of One Hundred Seventy Thousand and No/100 (\$170,000.00) Dollars, grant to AHMAD ALJANABI, individually, of 133 Upper Beverly Hills, West Springfield, Hampden County, Massachusetts

with Quitclaim Covenants

the land in that part of Agawam, Hampden County, Massachusetts, known as Feeding Hills, bounded and described as follows:

PARCEL II:

Beginning at the southwesterly corner of land formerly of Agnes S. Holt, now or lately of Alvin L. Rising et ux on the easterly side of said South Westfield Steet; and thence running

Southerly	along said South Westfield Street, about One Hundred Fifty (150) feet to Shoemaker Lane; thence
Easterly	along said Shoemaker Lane, about Ninety-Two (92) feet to a point; thence
Northerly	along land formerly of one Packard now or lately of Bernard, about One Hundred Thirty-Five (135) feet to a corner; thence
Easterly	along last-named land, Two Hundred Six and Thirty-Seven hundredths (206.37) feet to a point, land of The Town of Agawam, shown on plan entitled "Plan of Property in Agawam, Mass. Property Annexation to the 'Clifford M. Granger School'..." dated Aug. 1965, as recorded in the Registry of Deeds for said Hampden County in Book of Plans 112, Page 34; thence
Northerly	along last-named land in a straight line about Fifteen (15) feet to the southeasterly corner of said land now or lately of Rising et ux; and thence
Westerly	along land last referred to, about Three Hundred Twenty-Five (325) feet to said South Westfield Street at the place of beginning.

Subject to restrictions of record if any are in force and applicable.

Excepting out property conveyed in Book 1848, pg 57.

Subject to all real estate taxes and other municipal liens, demands, penalties and interest charges thereon if any.

As per M.G.L., Chapter 188, S. 13, the Grantors and their spouses, under oath and subject to the pains and penalties of perjury, do hereby depose, state and certify that: (i) we release all rights of Homestead in the subject realty, (ii) that no spouse, nonowner spouse, former spouse, or any other person resides in the home, and (iii) at the time of delivery of this deed, no spouse, former spouse, or any one person is entitled to claim the benefit of an existing estate of homestead.

Being a portion of the same premises conveyed to the Grantor herein by deed of Edward J. Austin dated May 2, 1972 and recorded in the Hampden County Registry of Deeds in Book 3687, Page 199.

195 South Westfield Street, Feeding Hills (Agawam), MA 01030.

Witness my hand and seal this 20th day of May, 2022,

Abbe W. McLane
Witness

Carol A. Barnes
CAROL A. BARNES

I, as spouse, hereby release all my marital rights and homestead rights pursuant to M.G.L. c. 188 §3 in said property.

Eugene Barnes
EUGENE BARNES

COMMONWEALTH OF MASSACHUSETTS

Hampden, ss

On this 20th day of May, 2022, before me, the undersigned notary public, personally appeared CAROL A. BARNES and EUGENE BARNES, and proved to me through satisfactory evidence of identification, which were valid driver's licenses, to be the persons whose names are signed on the preceding or attached document, and who swore and affirmed to me that the contents of the document are truthful and accurate to the best of their knowledge and belief, and acknowledged to me that they signed it voluntarily for its stated purpose.

 **ABBE W. MCLANE**
Notary Public
Commonwealth of Massachusetts
My Commission Expires
August 1, 2025

Abbe W. McLane
Abbe W. McLane, Notary Public
My Commission Expires: August 1, 2025

CHERYL A. COAKLEY-RIVERA, ESQ.
HAMPDEN COUNTY REGISTRY OF DEEDS

APPENDIX A: SITE PLAN

SITE PLAN ENTITLED "EXISTING CONDITIONS / SITE PLAN"

PREPARED FOR AHMAD ALJANABI

PREPARED BY R LEVESQUE ASSOCIATES, INC.

DATED JUNE 5, 2024



Town of Agawam

Department Of Public Works

DPW
1000 Suffield Street
Agawam, MA 01001
Phone: 413-821-0600
Fax: 413-821-0631

MEMORANDUM

To: Planning Board
CC: File
From: Engineering Division
Date: September 5, 2024
Subject: SP 666 – Proposed Building Reuse – #195 South Westfield Street

Per your request, we have reviewed the Site Plan Approval application for the Proposed Building Reuse located at #195 South Westfield Street; Prepared by R Levesque Associates Inc.; Dated: August 22, 2024. Based on our review, we have the following comments:

1. The proposed parallel parking spaces appear to be blocking access to an existing door that is not shown on the site plans. This may result in conflicts with Fire or Building Codes regarding means of egress into/out of the building.
2. Based on the requirements set forth in the Agawam Parking Guidelines, it does not appear that the subject parcel will have enough parking spaces. Engineering requests the Developer specify the amount of building area to be utilized for the auto repair garage and the foster care office as well as the number of anticipated employees within the auto repair garage.
3. Engineering recommends the painted access aisle for the handicapped space be placed on the side closest to the access door of the building.
4. The Developer shall verify that the area where the 5 vehicle storage spaces are proposed will be paved or shall remain as is.
5. It is recommended that bollards or similar barriers be installed around the traffic signal pole to avoid collision with vehicles backing out of the parallel parking spaces.
6. If possible, all catch basins on the subject property shall be fitted with hoods to prevent the discharge of oil, gasoline or other contaminants into the Town storm sewer system.
7. Engineering recommends that a Spill Prevention Plan be developed for the auto repair garage in the event of a potential illicit discharge to the street or stormwater structure.

Engineering reserves the right to make additional comments as new information is submitted. If you have any questions, please do not hesitate to contact this division.

Sincerely,


Michael F. Albro, P.E.
Assistant Town Engineer


Benjamin Ashley, E.I.T.
Civil Engineer II

Agawam Planning Board October 17, 2024

MEMBERS PRESENT:

Violet Baldwin, Chair
Frank DeStefano
Michael DiLullo
Charles Elfman

MEMBERS ABSENT:

Michael Cleavall

ALSO PRESENT:

Taryn Egerton
Stefanie Kesecker
Pam Kerr

Chairperson Baldwin called the meeting to order at 6:00pm.

1. SITE PLAN-404 Silver Street-Silver Street Energy Storage, LLC c/o New Leaf Energy Inc.

Eric Weinstein and Luke Peregoy with New Leaf Energy were present for this agenda item. Mr. Weinstein stated the proposed project is a battery energy storage system (BESS) with a capacity of approximately 5 megawatts (4hrs.) . Associated site improvements would include battery containers, transformers, and inverters, that will sit on a concrete pads enclosed by a combined 7ft.tall chain link fence with an access gate and 10 ft. sound barrier wall. He went on to say there will be improvements to the existing access road, expanding it 20ft. The proposed plan is near the Silver Street substation. There will be an ANR to subdivide the large lot into 2 lots, he stated. Lot A will contain the existing residence, and LOT B will contain the BESS equipment. He stated this is a renewal energy option. The batteries will charge during peak energy hours and be used by the utility company during seasonal peak times.

He stated there is ample preexisting tree screening for neighbors. The location of the BESS will be in the back portion of the parcel.

Mr. Elfman asked how much noise this proposed project would generate. Mr. Weinstein stated there is some noise associated with the inverters, which would be similar to the sound of a commercial air conditioner running. He went on to say that the project would comply with all noise requirements of the Mass DEP. Mr. Elfman asked about decibels. Mr. Weinstein stated a noise study had just been completed and the noise generated would be similar to 40 decibels, which is similar to small town ambient noise. He went on to say there will be a 10ft. wall on the west side, that will also act as a sound barrier.

Mr. Elfman asked who the customer would be. Mr. Weinstein stated the electricity is sold to the grid (Eversource), which allows them to get some of their electricity from renewable energy sources, and utilize it during times of increased demand.

Mr. Elfman asked about the 4 hour life of the batteries. Mr. Weinstein explained the batteries would allow energy to be transferred to the grid for up to 4 hours, before needing a solar recharge.

Ms. Baldwin asked about trees being removed on the western side of the parcel, near 2 abutting homes. Mr. Peregoy stated a small portion of trees would be removed near the abutters, and a

Agawam Planning Board October 17, 2024

small number of trees will be removed at the connection area. Ms. Baldwin asked if the screening would be enough for the abutting homes. Mr. Peregoy stated the trees that remain should provide sufficient screening for the abutters, but they would be happy to provide additional screening/trees if necessary. Ms. Baldwin asked if the screening would be trees or shrubs. Ms. Melinda Costello, with Weston & Sampson stated the amount of tree clearing was just under .2 acres which is equivalent to 7,600 sq. ft.

Ms. Baldwin asked about the widening of the access road and how close it would be to the property line side setback. Ms. Costello stated it would be a little over 15ft. for the side yard setback to the west edge of the gravel access road. Ms. Baldwin asked about the plan showing a 10ft setback. Ms. Costello stated that the 15ft. side yard setback Residential-A requirement has been reflected on the updated plan.

Ms. Baldwin asked about mitigation for dust when the gravel access road is being expanded. Ms. Costello stated there is a sediment and erosion control plan, and there is mitigation for dust during construction including gravel stone and water trucks if needed.

Mr. DeStefano asked how the electricity would be transferred to the grid. Mr. Weinstein stated the substation was about 400 ft. to the east of the BESS, and there will be underground conduit to connect the BESS equipment to proposed pole mounted equipment, and there will be underground trenches to the footprint of the storage site.

Ms. Baldwin asked about the level of traffic in and out of the site. Mr. Weinstein stated there would be very minimal traffic, only a few times of year for maintenance.

Ms. Baldwin confirmed there would be a fence around the BESS. Mr. Weinstein stated the fence would follow the requirements of the electrical code.

Ms. Costello then addressed the Engineering comments from October 17, 2024, which she stated were all minor and easily addressable.

Ms. Baldwin stated the Fire Department has not approved the swept path analysis. Ms. Costello stated the specs were based on a 40ft., 4 wheel, 2 axle truck, but they have received updated specs from the Fire Department and the new specs, clarify that the truck measures 4 ft. longer, so the new swept path analysis will be for a 49'7" truck.

Ms. Kerr asked about storm water management onsite and if detention was needed. Ms. Costello stated onsite detention was not necessary as the soil is fine sandy loam, which drains well. She stated an updated Stormwater Management Plan will be submitted, but although the project increased the impervious area there will be no change to the stormwater patterns, and they had run tests for the 2, 10, and 100 year storms.

Motion was made by Mr. Elfman and seconded by Mr. DiLullo to table the SITE PLAN-404 Silver Street-Silver Street Energy Storage, LLC c/o New Leaf Energy Inc. to the November 7, 2024 meeting.

VOTE 4-0-0

2. SITE PLAN-195 South Westfield Street-Aljanabi

Agawam Planning Board October 17, 2024

The Planning Board received a request to continue this agenda item to the November 7, 2024 meeting.

Motion was made by Mr. DeStefano and seconded by Mr. Elfman to continue the SITE PLAN-195 South Westfield Street-Aljanabi to November 7, 2024, as requested.

VOTE 4-0-0

3. SITE PLAN-1422-1444 Main Street-Shields Hotel

The Planning Board received a request to continue this agenda item to the November 7, 2024 meeting.

Motion was made by Mr. DeStefano and seconded by Mr. DiLullo to continue the SITE PLAN-1422-144 Main Street to November 7, 2024, as requested.

4. APPROVAL OF MINUTES-October 3, 2024

Motion was made by Mr. DeStefano and seconded by Mr. DiLullo to approve the October 3, 2024 minutes, as written.

VOTE 3-0-1(Elfman)

5. Correspondences

Ms. Kerr informed the Board there will be a public hearing held by the Community Preservation Committee(CPC) on October 23, 2024 at 6:00pm at the Agawam Senior Center to provide an overview of the financial performance of CPA funds as well as sharing recent accomplishments. THE CPC welcomes input from town residents, town boards, committees, and commissions on goals, activities, procedures, and spending.

Ms. Kerr also informed the Board that the City Council is holding a hearing on November 18, 2024, at 7:00pm at the Agawam Senior Center, for a zone change for 71 Maynard/131 Coronet Circle from Agricultural to Residence A-1. The Planning Board's public hearing has been advertised for November 7, 2024.

Ms. Kerr also stated the Town was working on a new Zoning Amendment for battery energy storage systems.

Motion was made by Mr. Elfman and seconded by Mr. DiLullo to adjourn the meeting.

VOTE 4-0-0

Meeting adjourned at 6:45pm.