Kimberly Ciaramicoli, Chair
Jillian Miller, Vice Chair
Deborah Cato

Linsie Dillon
Jessica Marino
Jessica Tenzar

Town of North Attleborough
CONSERVATION COMMISSION
43 South Washington Street, North Attleborough, MA 02760
Phone: (508) 699-0100 ext. 2584

PUBLIC MEETING

February 3, 2026 at 6:30 PM
Town Hall - JoAnn Cathcart Conference Room

I. Attendance

II. Hearing And Meeting Items

a. CONT. Notice of Intent (NOI), 41 Quail Creek Rd, Adeline Newbold, SE 243-1020

Documents:

41 QUAIL CREEK RD FOR AGENDA PACKET.PDF

b. CONT. Notice of Intent (NOI), 159 Paul Lizotte Dr., Forge Building Corp., SE 243-1010

c. CONT. Notice of Intent (NOI), 74 Moran Street, Jared Forget with a Pond Permit SE 243-1019

Documents:

PLANS 74 MORAN STREET.PDF
MAP_20250928 (1).PNG
COASTAL PLAN.DOCX
EXHIBIT A.JPG
EXHIBIT B.JPG
EXHIBIT C.JPG

d. CONT. Notice of Intent (NOI), 34 Circle Court, North Attleborough Housing Authority, SE 243-1016

Documents:

CIRCLE COURT NOI PLANS.PDF
2507 CIRCLE COURT - NOI AND SITE PLAN BOOKLET (REDUCED VER 9).PDF
012926 CIRLCE COURT - ADDITIONAL INFORMATION- NOI - GCG - REDUCED (2).PDF

e. CONT. Notice of Intent (NOI), 204 Elm Street, North Attleborough Housing Authority, SE 243-1017

Documents:

ELM TERRACE NOI PLANS.PDF
2507 - ELM TERRACE STORMWATER REPORT NOI (003).PDF
012926 ELM TERRACE - NOI ADDITIONAL INFORMATION - CHANGES - GCG.PDF

f. Notice of Intent (NOI), 306 Mount Hope St., Drew Haughton, SE 243-1021

Documents:

2026-01-15 NOI TOWN SUBMISSION.PDF

III. Commission Business

a. Request for Certificate of Compliance (COC), 541 Old Post Road., Ronald Bonin., SE 243-0990

Documents:

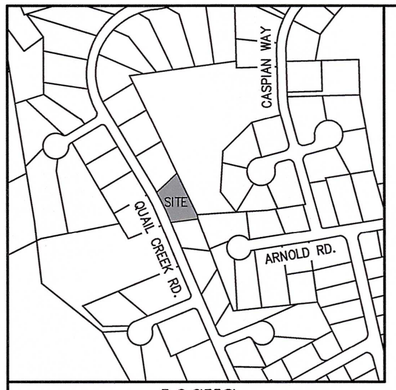
0295-11-19-2021-SHT1-REV1.PDF

IV. Other Business

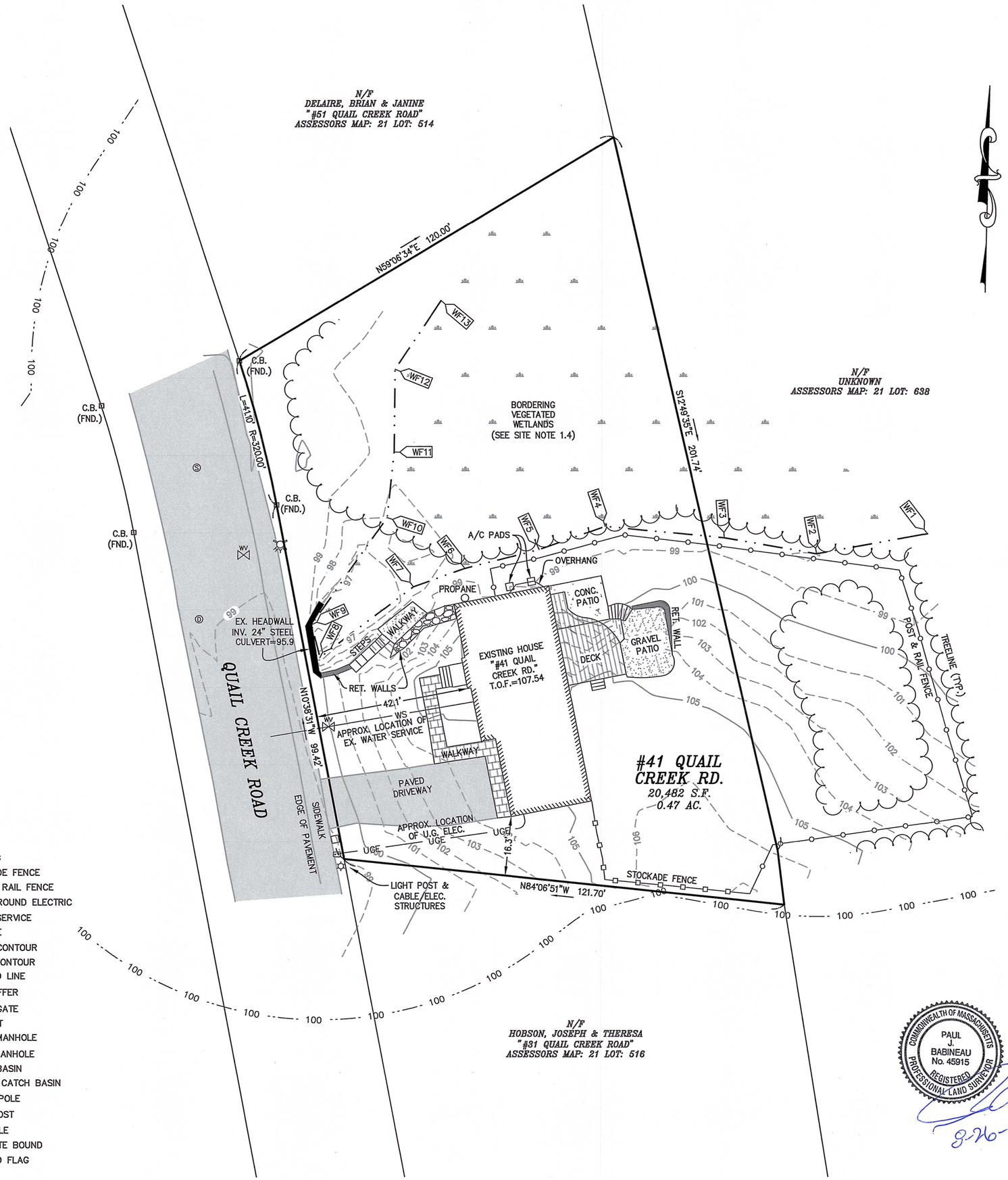
V. Minutes

VI. Commission Updates

VII. Adjournment



LOCUS
N.T.S.



LEGEND

- BUILDING
- STOCKADE FENCE
- POST & RAIL FENCE
- UNDERGROUND ELECTRIC (UGE)
- WATER SERVICE (WS)
- TREELINE
- MAJOR CONTOUR
- MINOR CONTOUR
- WETLAND LINE
- 100' BUFFER
- WATER GATE (WV)
- HYDRANT
- SEWER MANHOLE
- DRAIN MANHOLE
- CATCH BASIN
- DOUBLE CATCH BASIN
- UTILITY POLE
- LIGHT POST
- HANDHOLE
- CONCRETE BOUND
- WETLAND FLAG (WF40)

GENERAL NOTES

1. PLAN REFERENCE:
   - 1.1. FOR DEED REFERENCE SEE DEED BOOK: 27239 PAGE: 227 IN THE BRISTOL COUNTY NORTH REGISTRY OF DEEDS.
   - 1.2. FOR PLAN REFERENCE SEE PLAN BOOK: 368 PAGE: 74 IN THE BRISTOL COUNTY NORTH REGISTRY OF DEEDS.
   - 1.3. THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS THE RESULT OF A FIELD SURVEY PERFORMED BY OUTBACK ENGINEERING, INC. ON 8/19/2025. ELEVATIONS ARE BASED ON ASSUMED DATUM.
   - 1.4. THE WETLAND LINE SHOWN HEREON WAS FLAGGED BY GREGORY DRAKE OF OUTBACK ENGINEERING, INC. ON 8/13/2025.
2. THE SITE FALLS WITHIN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2 ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON THE FLOOD INSURANCE RATE MAP (MAP NUMBER: 25005C0101G, EFFECTIVE DATE: 7/16/15).
3. THE SITE IS LOCATED WITHIN A ZONE C SURFACE WATER SUPPLY PROTECTION AREA. THIS SITE IS NOT LOCATED WITHIN A GROUNDWATER PROTECTION AREA.
4. THE SITE IS NOT LOCATED WITHIN A PRIORITY HABITAT AND IS NOT LOCATED WITHIN AN ESTIMATED HABITAT ACCORDING TO THE LATEST NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM ONLINE MAPS.
5. ALL EXISTING UTILITY INFORMATION IS FROM FIELD SURVEY PERFORMED BY OUTBACK ENGINEERING, INC. AND RECORDED PLANS AND IS TO BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL NOTIFY DIGSAFE (811) AT LEAST 72 HOURS PRIOR TO THE ONSET OF ANY CONSTRUCTION TO HAVE ALL EXISTING UTILITIES LOCATED AND CLEARLY MARKED.

REVISIONS

NO.	DATE	DESCRIPTION

OWNER & APPLICANT

JAMES MALMBORG & KATHLEEN MCDONALD
41 QUAIL CREEK ROAD
NORTH ATTLEBOROUGH, MA 02760

ASSESSORS MAP: 21 LOT: 515

EXISTING CONDITIONS PLAN

AT
#41 QUAIL CREEK ROAD
IN
NORTH ATTLEBOROUGH
MASSACHUSETTS

COMMONWEALTH OF MASSACHUSETTS
PAUL J. BABINEAU
No. 45915
REGISTERED PROFESSIONAL LAND SURVEYOR
8-26-25

Outback Engineering Incorporated
165 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
TEL: (508)-946-9231
www.outback-eng.com

DATE: AUGUST 26, 2025
DRAWN BY: J.E.Y. | CHECKED BY: J.A.Y.
SCALE: 1"=20' | SHEET 1 OF 1

0' 20' 40' 60'

OE-4439



LEGEND

- wooded marsh
- hydroglogic connection
- property line

GIS data Source: Office of Geoographic Information (MassGIS) Commonwealth of Massachusetts, MassIT

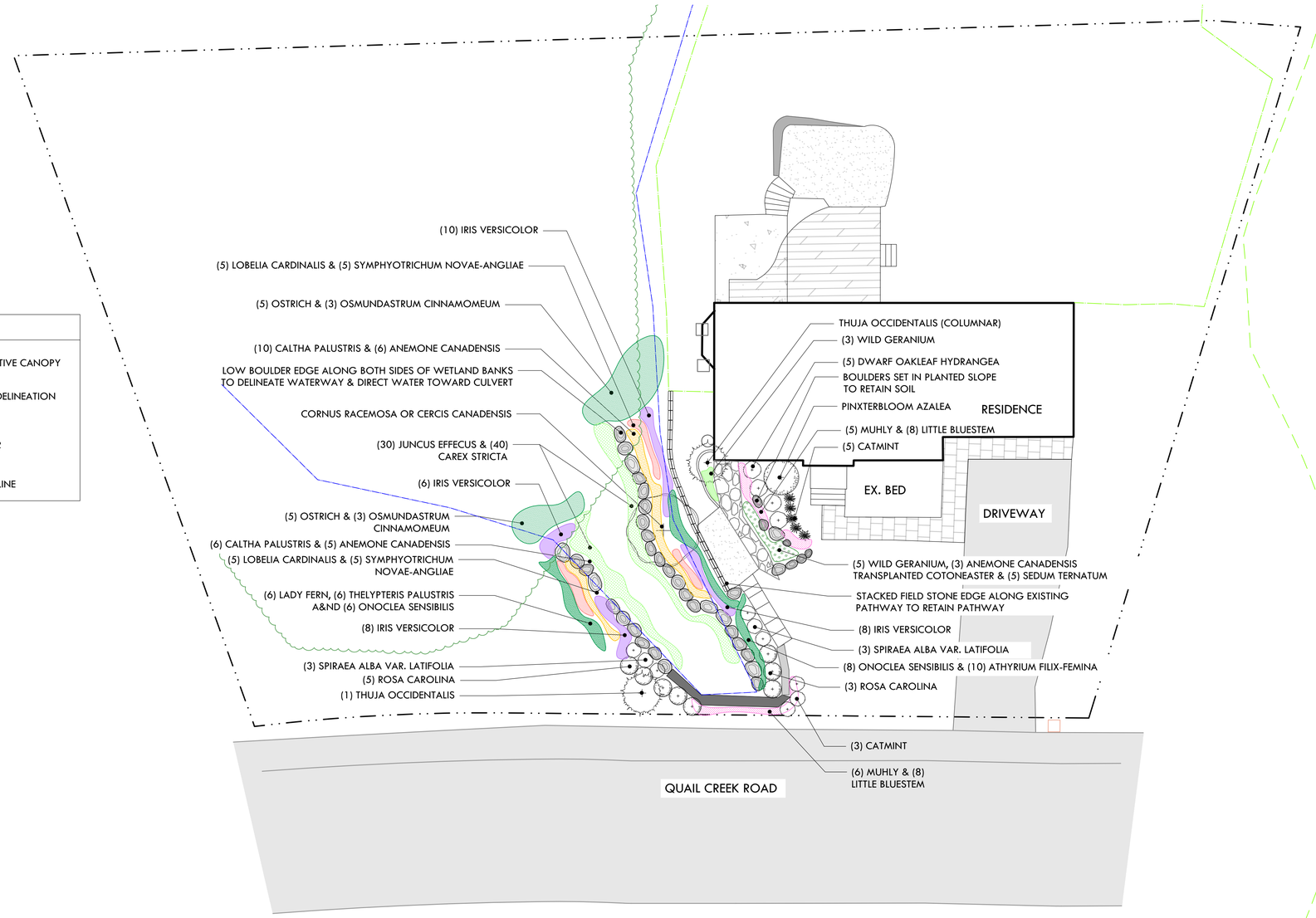
NEW BOLD LAND DESIGN
ADELINE NEWBOLD
178 KNIGHT STREET
PROVIDENCE, RI 02909

WETLAND OVERLAY

41 QUAIL CREEK RD. NORTH ATTLEBORO, MA

SEPTEMBER 2025

LEGEND	
	EX. VEGETATIVE CANOPY
W W W	WETLAND DELINEATION
	100' BUFFER
	PROPERTY LINE



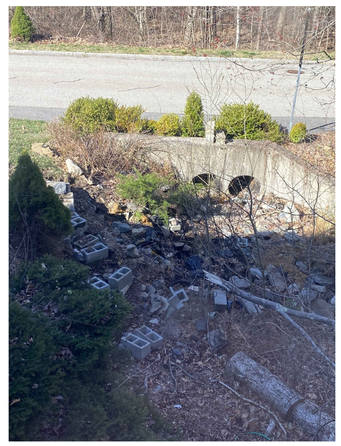
NOTES FOR WETLAND REHABILITATION:

1). ALL EXISTING STYROFOAM, CINDER BLOCK, PLASTIC POND LINER, AND ANY OTHER FOREIGN DEBRIS FROM PREVIOUS OWNER COY POND CONSTRUCTION WILL BE REMOVED BY HAND (SEE PHOTO BELOW)

2). ANY DISRUPTION THAT PREVIOUSLY OCCURED TO THE NATURAL GRADE WILL BE REMEDIATED BY FILLING IN DEPRESSIONS, OR LEVELING MANUFACTURED SOIL PILES FROM PREVIOUS OWNER

3.) NATIVE BOULDERS (REPURPOSED FROM SITE OR FROM LOCAL MATERIALS YARD) WILL BE PLACED ALONG THE BANKS OF WETLAND AREA TO SUPPORT NATURAL FLOW OF WATER THROUGH CULVERT AND PREVENT FURTHER EROSION TOWARD FOUNDATION

4.) SUBMERGED AND UPPER WETLAND AREAS WILL BE PLANTED WITH MASSACHUSETTS NATIVE WETLAND SPECIES APPROPRIATE TO EACH ZONE TO SUPPORT HEALTHY HABITAT RESTORATION, PLANT BIODIVERSITY, SOIL STABILIZATION, AND WATER REMEDIATION.



ADDITIONAL NOTES:
1. ALL PROPERTY LINES, STRUCUTRES, IMPERVIOUS SURFACES, UTUILIES AND WETLAND LINES ARE COPIED FROM SURVEY PROVIDED BY OUTBACK ENGINEERNG, INC.

NEW BOLD LAND DESIGN
NEW BOLD
LAND DESIGN
ADELINE NEWBOLD
178 KNIGHT STREET
PROVIDENCE, RI 02909

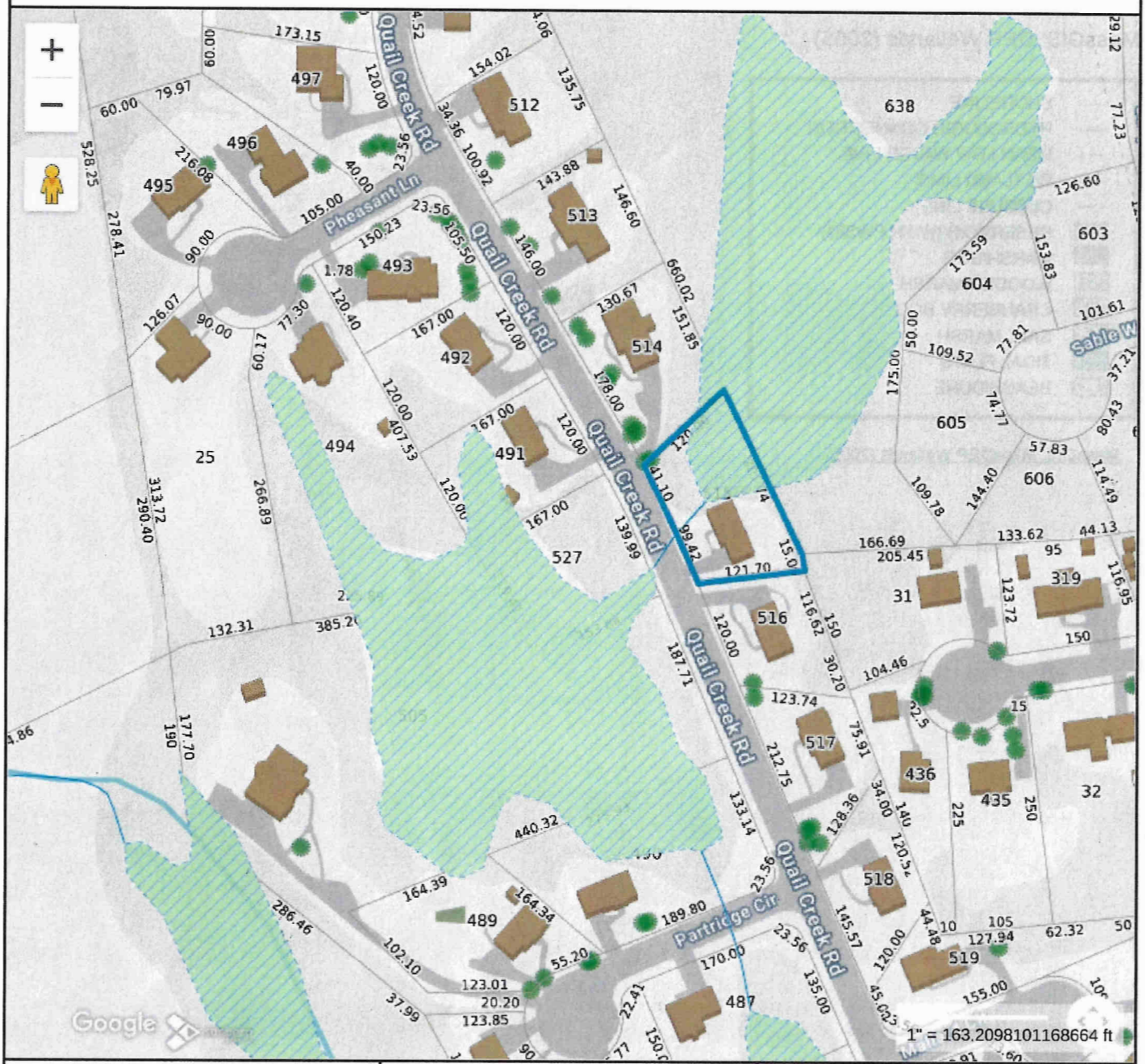
WETLAND REHABILITATION PLAN

41 QUAIL CREEK RD. NORTH ATTLEBORO, MA

N

0 5' 10' 20'
SCALE: 1"=10'

SEPTEMBER 2025



Property Information

Property ID	21-515
Location	41 QUAIL CREEK RD
Owner	MALMBORG JAMES + MCDONALD KATHLEEN

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

Town of North Attleborough, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

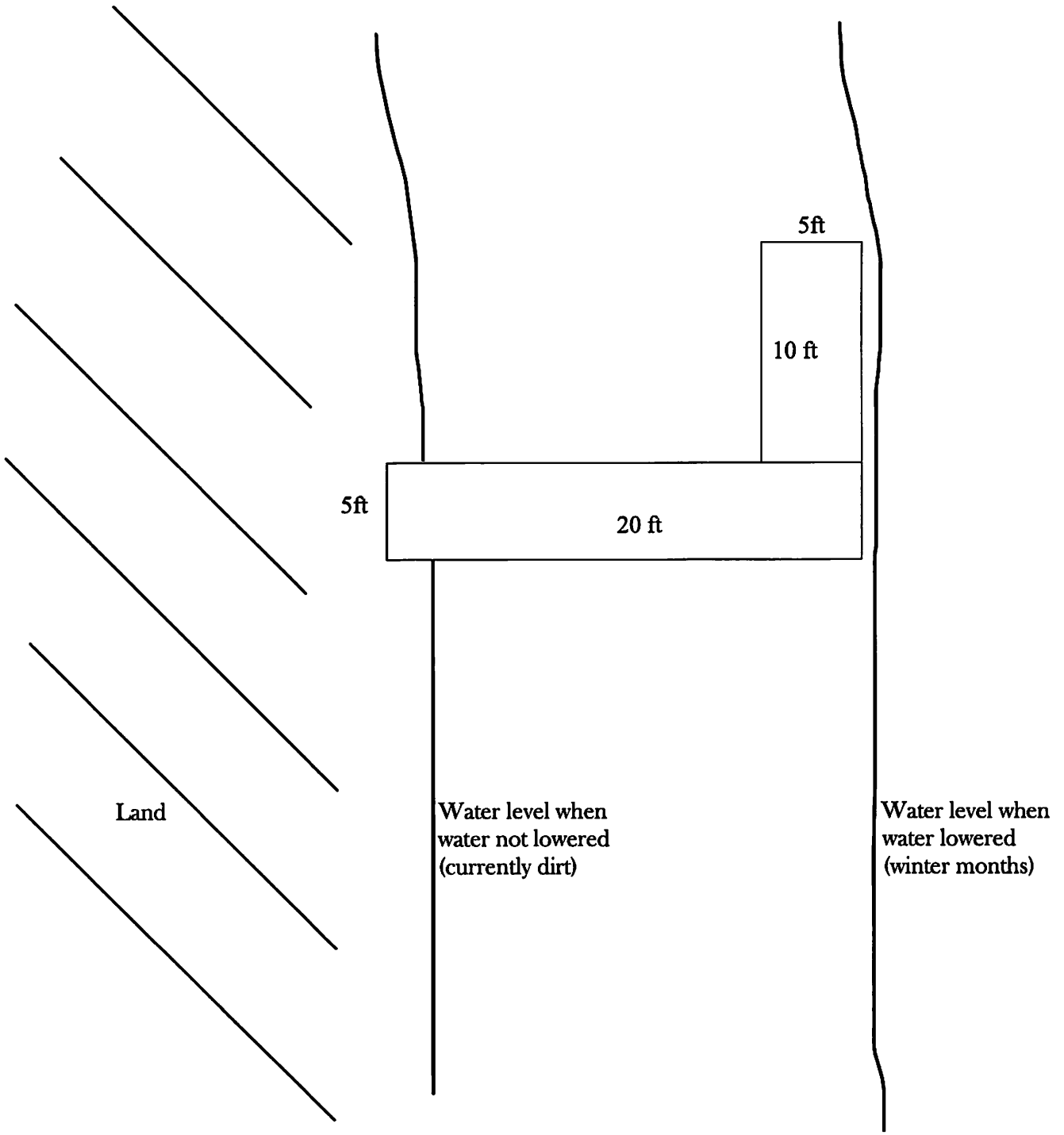
Geometry updated June 2025
Data updated June 2025

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.


Thu Apr 4 2019
Imagery © 2025 Nearmap, HERE
20 ft
Nearmap


Thu Apr 10 2025
Imagery © 2025 Nearmap, HERE
20 ft
Nearmap

74 Moran Street, North Attleborough, MA



PLAN SHOWING RIGHT OF WAY ON LAND OF ALDEA BRAIS NORTH ATTLEBORO MA.

JANUARY 1984 SCALE 1:80'

W.T. WHALEN ENGINEERING CO

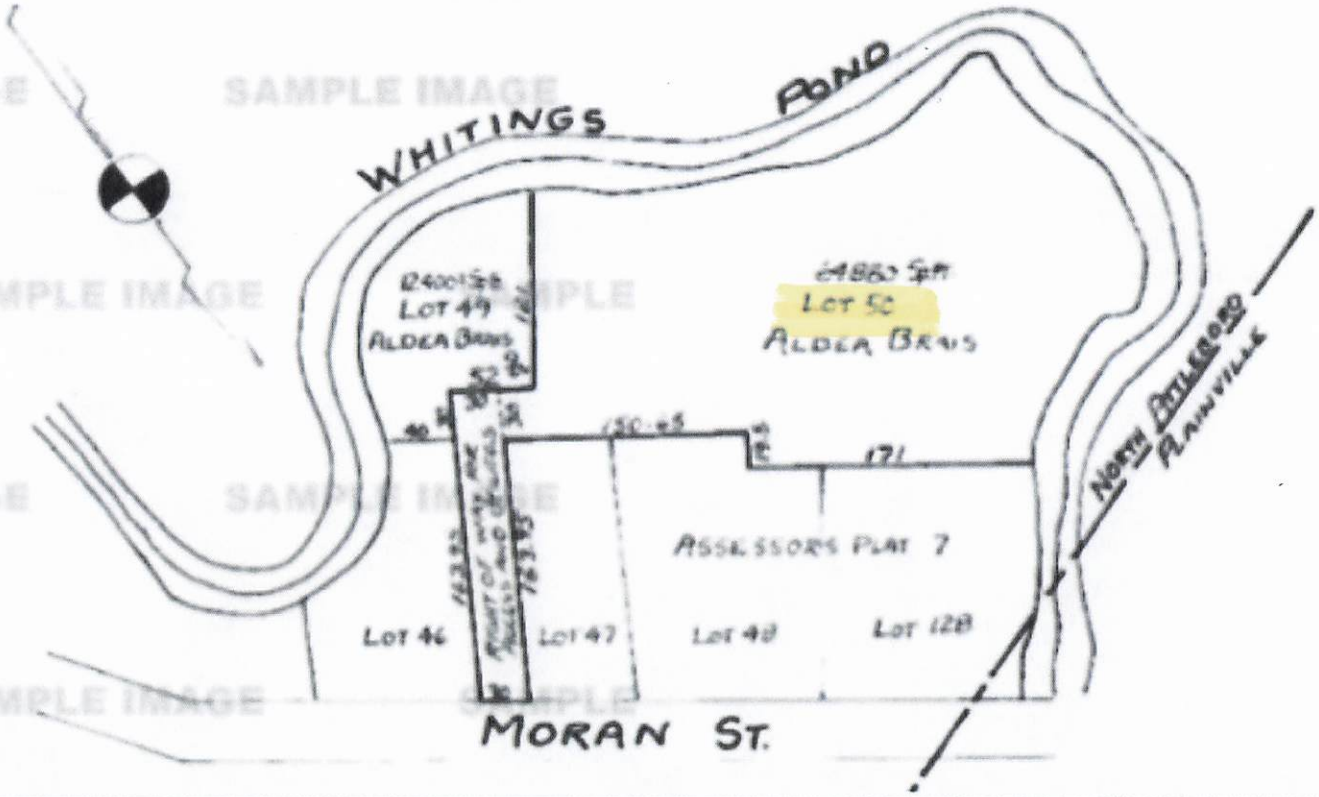
NORTH ATTLEBORO MA

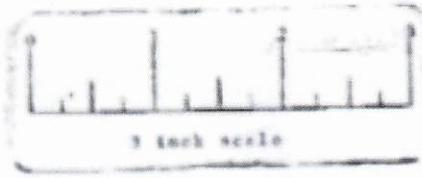
0 80 160 240

LOCUS SKETCH



RECEIVED
FEB 22
208 68





I CERTIFY THAT THE PROPERTY LINES AND STREET LINES SHOWN ON THIS PLAN WERE IN EXISTANCE PRIOR TO THIS PLAN AND THAT NO NEW PROPERTY LINES OR STREET LINES ARE SHOWN. THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTER OF DEEDS.



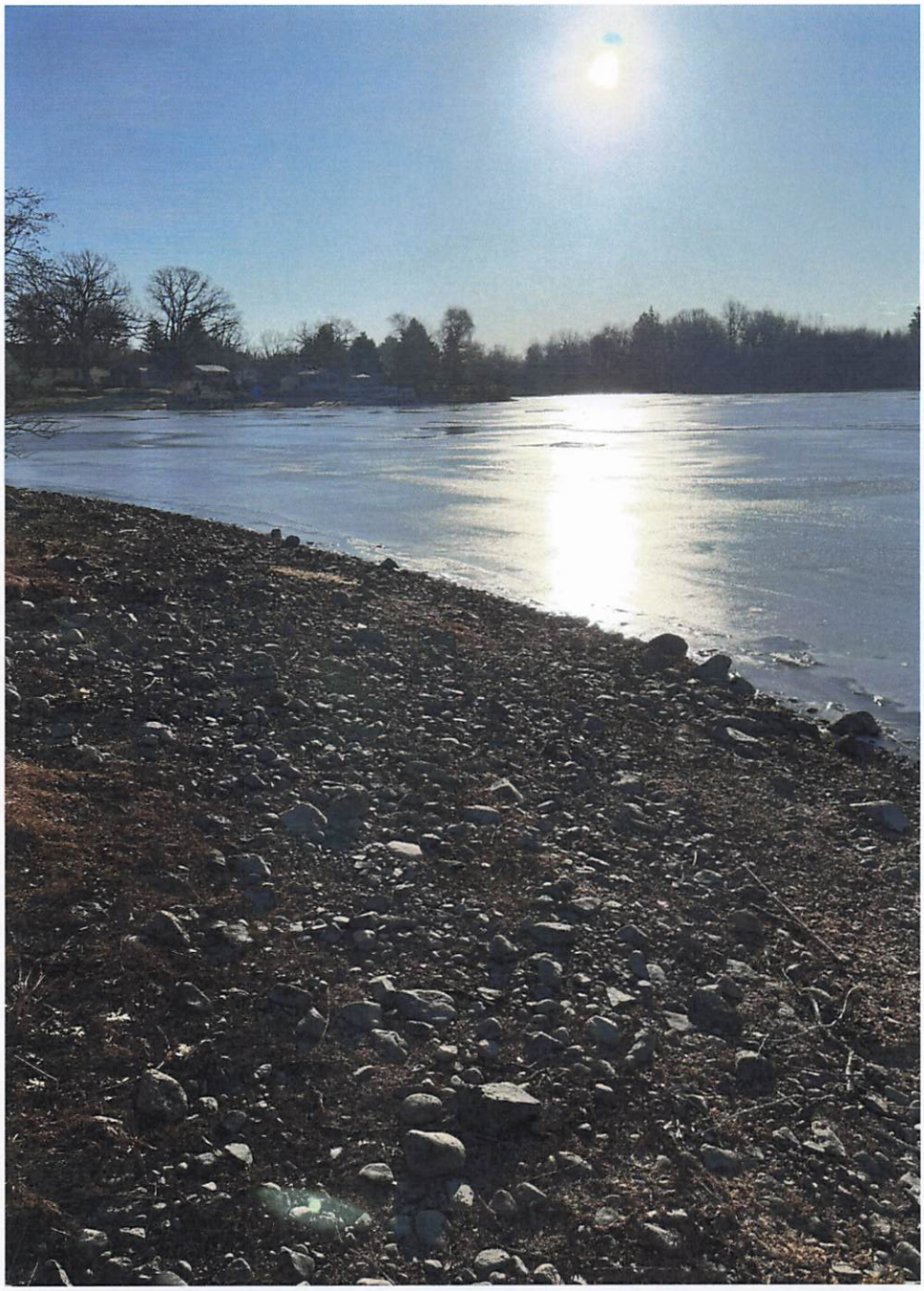

dock location
72 Moran
74 Moran
(Lot 50)
120'
246'
50'
44'
49'
86'
26'
96'
173'
22'
147'
193'
164'
53'
29'



Dock Location



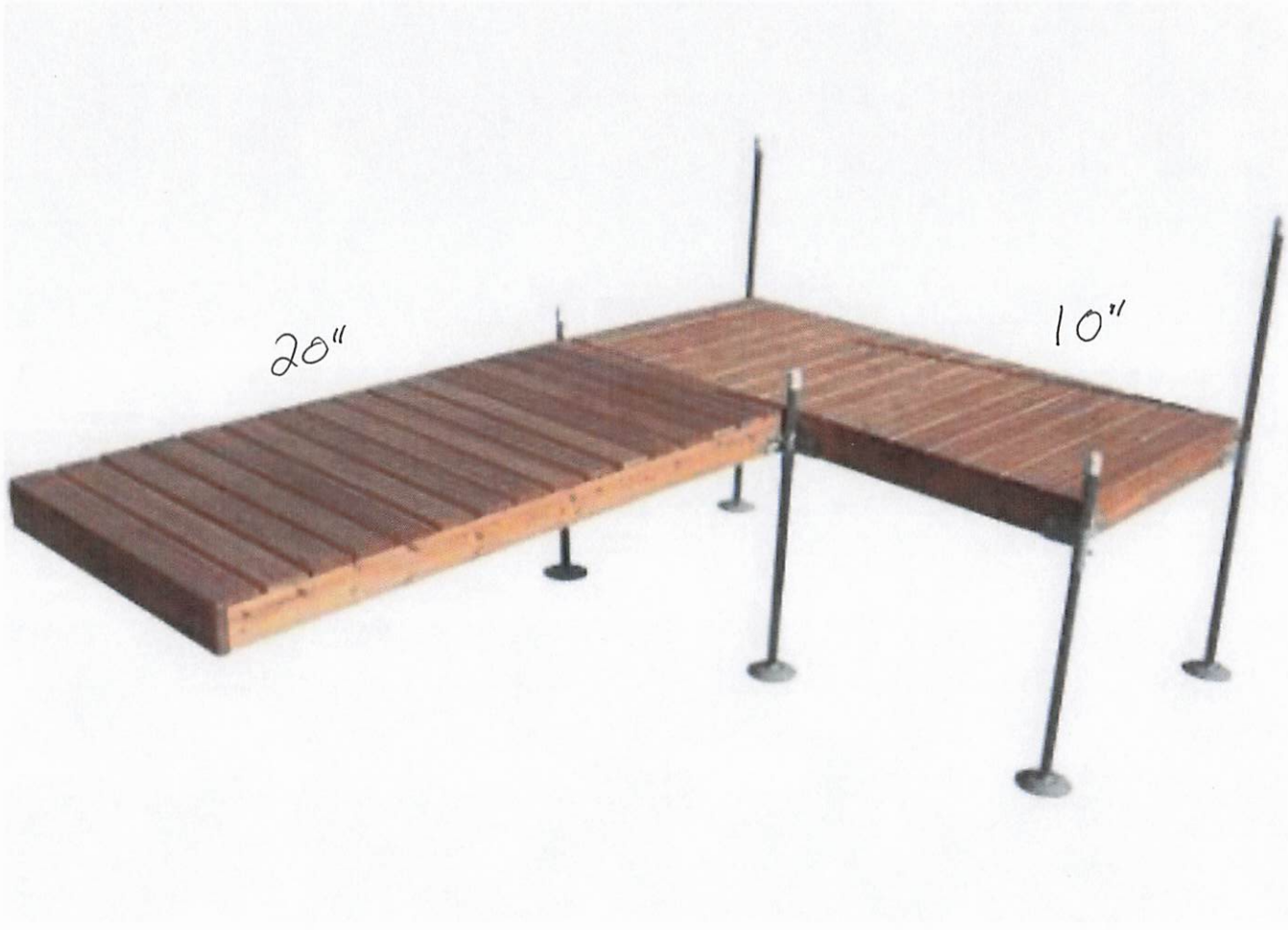
View to the right



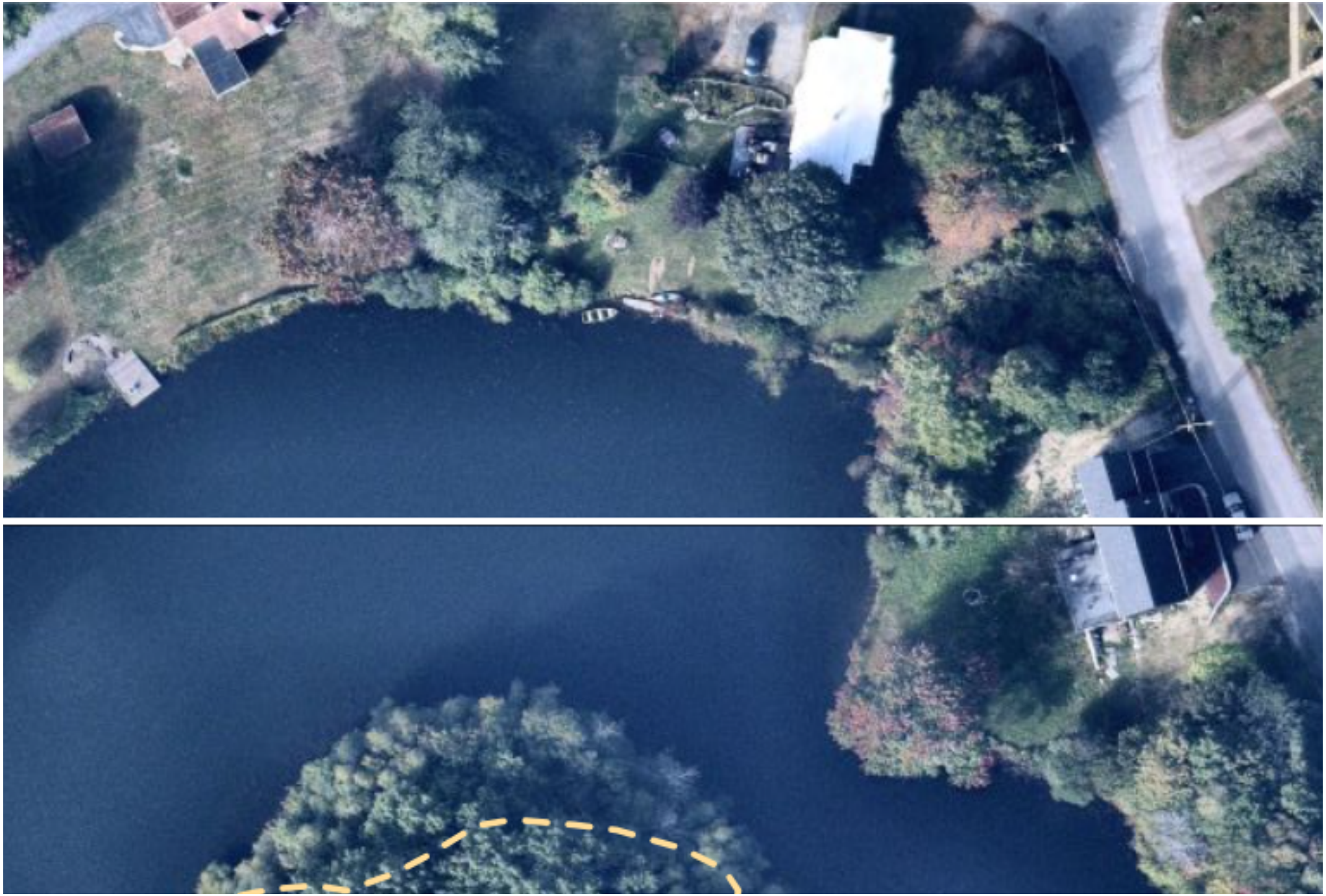
View to the Left



Neighbor's Docks (12/23/25)



Dock Example



74 Moran Street buffer zone establishment

- Environmental engineer reviewed the property and recommended planting the Northern Highland Blueberry variety every 8 feet in the spring. This plant is effective for reducing erosion on inland coastal zones. Applicant will follow this recommendation.
- Also, applicant will prepare area for a shoreline seed mix containing a combination of optimal mixes such as sedges, rushes, and grasses designed for shoreline due to its dense, fibrous root system that holds soil in coastal zones.
- Combining these seeds with blueberry shrubs will create a deep-rooted buffer that reduces erosion and filters runoff.

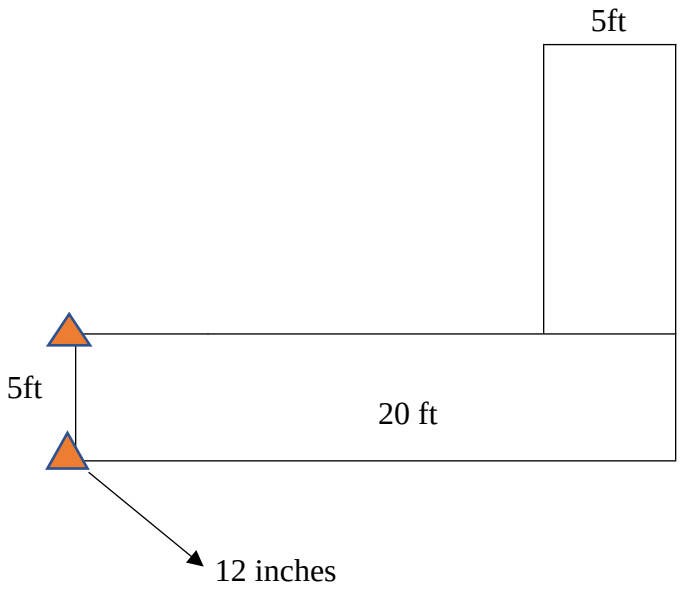
Dock Placement on Coast

- Dock placement will begin at stable shoreline location, which generally begins at 12 inches or above in inland lakes/ponds.
- Photographs demonstrating high-tide water mark and dock placement:
    - Exhibit A: Drone photo of coastal area (01-25-26). Coast line delineated in red. Dock location highlighted in green.
    - Exhibit B: Closer photo of coast that shows visible separation between high and low water tide mark.
    - Exhibit C: Location of dock placement, which is over 12 inches above high-water tide mark.
- *Applicant will ensure that the dock's placement falls within the highest point to ensure minimal to no impact on coast line and does not have a negative impact on coastal erosion.*

Jarod Forget
74 Moran Street, North Attleboro, MA

74 Moran Street, North Attleborough, MA

Blueberry bushes & coastal seed mix



Land when water lowered

Water level when water not lowered

(currently dirt)

Water level

(winter months)






EX

PARKING LOT & WALKWAY UPGRADES

CIRCLE COURT (667-1)

NORTH ATTLEBOROUGH, MASSACHUSETTS

NORTH ATTLEBOROUGH HOUSING AUTHORITY

EOHLC PROJECT #197161

OWNER/APPLICANT:

NORTH ATTLEBOROUGH HOUSING AUTHORITY (NAHA)
20 SOUTH WASHINGTON STREET
NORTH ATTLEBOROUGH, MA, 02760
PHONE: (508) 695-5142

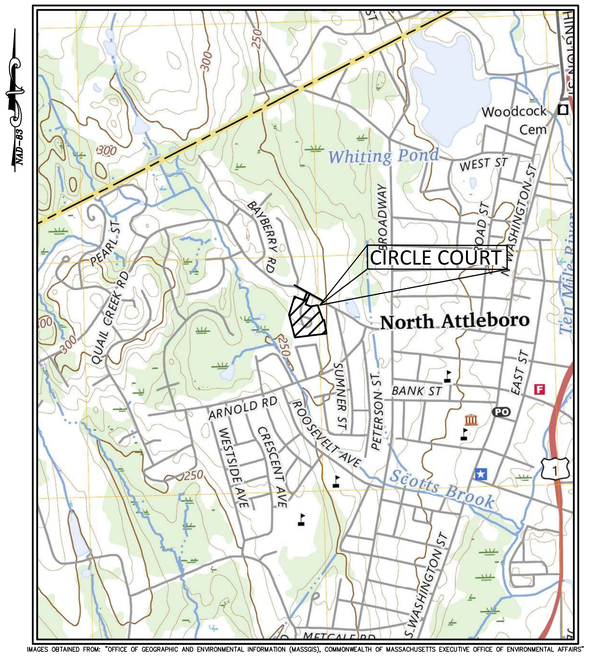
PROJECT ADDRESS:

CIRCLE COURT (667-1)
NORTH ATTLEBOROUGH, MA 02760
MAP 19, LOT 220.
BOOK 20, PAGE 172, N.B.C.R.D..

NORTH ATTLEBOROUGH PLANNING BOARD

_____
_____
_____
_____
_____
_____
_____
_____

DATE: _____



IMAGES OBTAINED FROM: "OFFICE OF GEOGRAPHIC AND ENVIRONMENTAL INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS"

LOCUS PLAN
SCALE : 1"=1000'±

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	NOTES AND LEGEND
3	EXISTING CONDITIONS PLAN
4	DEMOLITION PLAN
5	SITE PLAN
6	GRADING AND DRAINAGE
7	DETAILS I
8	DETAILS II
9	DETAILS III
10	DETAILS IV

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
38907
REGISTERED PROFESSIONAL ENGINEER

11/12/2025

SITE PLAN REVIEW FOR (NAHA)

NORTH ATTLEBOROUGH HOUSING AUTHORITY

100% CONSTRUCTION DOCUMENTS

GCG ASSOCIATES INC. CONSULTING ENGINEERS WILMINGTON, MASSACHUSETTS

NOVEMBER 12, 2025

Title: COVER Circle Ct Plot Style: GCG-2018.ctb Plotted By: Rosey Howe

2507-100%_IUD - Circle Ct. NOI Plan Set.dwg Saved: 12/18/2025 12:29 PM Plotted: Dec 22, 2025 9:18 am

GENERAL NOTES

1. PLANS AND TOPOGRAPHIC INFORMATION ARE PREPARED FROM GROUND SURVEY AND DRONE SURVEY PERFORMED BY GCG ASSOCIATES, INC., ON MARCH, 19, APRIL 29, AND OCTOBER 2, 2025.
2. WETLAND DELINEATION WAS PERFORMED BY CHRISTOPHER J. CAPONE ON SEPTEMBER 5, 2025, AND FIELD LOCATED BY THIS OFFICE.
3. ALL LOCATIONS OF SUBSURFACE UTILITIES AND STRUCTURES WERE OBTAINED FROM AVAILABLE UTILITY RECORDS. THE SIZE, TYPE, AND LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL PROPERLY LOCATE THE UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN UTILITY INFORMATION BY CONTACTING DIG SAFE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION AT (811). THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY UTILITY LINE LOCATIONS AS NECESSARY.
4. **THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES ON SITE. THE CONTRACTOR SHALL HIRE A PRIVATE MARKING COMPANY TO LOCATE ONSITE UTILITIES. THE COST TO HIRE THE PRIVATE MARKING COMPANY SHALL BE INCLUDED IN THE CONTRACT PRICE.**
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL STATE OR LOCAL BUILDING PERMITS THAT MAY BE REQUIRED. THE NORTH ATTLEBOROUGH HOUSING AUTHORITY SHALL PAY FOR ALL PERMITS.
6. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A CONSTRUCTION SCHEDULE DELINEATING THE SEQUENCE OF WORK AND ESTIMATED TIME OF COMPLETION OF EACH SEGMENT OF WORK, PRIOR TO THE COMMENCEMENT OF WORK.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ALL WORK INCLUDED UNDER THIS CONTRACT. THE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SAFETY BARRIERS, WARNING FLASHERS, ETC., AS REQUIRED BY THE CONDUCT OF THE WORK FOR THE PROTECTION OF WORKERS AND NON-WORKERS ALIKE. THE CONTRACTOR'S ATTENTION IS DIRECTED TO OSHA REQUIREMENTS.
8. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS TRAFFIC FLOW DURING CONSTRUCTION SATISFACTORY TO THE ENGINEER AND THE NORTH ATTLEBOROUGH HOUSING AUTHORITY. ACCESS TO ALL EXISTING RESIDENCES SHALL BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION BY THE CONTRACTOR. ACCESS TO ALL EXISTING RESIDENCES SHALL BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE PARKING LOT DURING CONSTRUCTION FOR ALL RESIDENTS.
9. NO EQUIPMENT SHALL BE ALLOWED TO BE PARKED ON THE ROAD WHEN NOT IN USE. MATERIALS SHALL NOT BE STOCKPILED ON THE ROAD OR IN PARKING AREAS. THE CONTRACTOR SHALL CONSULT THE NORTH ATTLEBOROUGH HOUSING AUTHORITY WITH RESPECT TO LOCATION OF STOCKPILED MATERIALS.
10. ALL CONSTRUCTION SIGNAGE SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
11. BUILDING LOCATIONS AS SHOWN ON ADJACENT PROPERTIES, ARE APPROXIMATE AND FOR REFERENCE PURPOSES ONLY.
12. ALL CONSTRUCTION MATERIAL, DEBRIS, ASPHALT, SOIL, ETC. THAT IS REMOVED FROM THE SITE SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. THE COST FOR THIS SHALL BE INCLUDED IN THE CONTRACT PRICE.
13. THE CONTRACTOR SHALL MAINTAIN THE EXISTING SITE DRAINAGE PATTERNS UNLESS OTHERWISE NOTED. ALL GRADING MODIFICATIONS SHALL DIRECT DRAINAGE AWAY FROM ALL EXISTING BUILDINGS AND TOWARDS THE APPROPRIATE AREAS.
14. ALL GRADING MODIFICATIONS SHALL BE GRADUAL SO AS NOT TO CREATE ANY STEEP SLOPES, UNEVEN AREAS, ETC.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY DEBRIS, SEDIMENT OR SILTY WATER FROM ENTERING ANY DRAINAGE SYSTEM, ETC. DURING ALL PHASES OF CONSTRUCTION.
16. DURING CONSTRUCTION THE CONTRACTOR SHALL PROTECT ALL TREES AND ROOTS OF TREES TO REMAIN. ROOTS ON TREES WHICH ARE IMPACTING THE SAFETY OF THE SITE OR AFFECTING WALKWAYS SHALL BE REMOVED BY THE CONTRACTOR.
17. THE CONTRACTOR SHALL REMOVE OVERGROWN VEGETATION ALONG WALKWAYS AND FENCES AS NEEDED. COST SHALL BE INCLUDED IN THE CONTRACT PRICE.
18. DURING THE COURSE OF CONSTRUCTION ANY DAMAGE BY THE CONTRACTOR TO FENCES, GUARD RAILS, PATHS, STAIRS, PAVEMENT AND VEGETATION SHALL BE REPAIRED OR REPLACED AND RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE CONTRACT. ANY REPLACEMENT FENCE AND/OR HANDRAILS SHALL MATCH EXISTING FENCE IN TYPE, FINISH (GALVANIZED AND VINYL CLAD), COLOR AND MESH SIZE.
19. ALL CASTINGS, GATE BOXES, HYDRANTS, LIGHT POLES, ETC. DAMAGED DURING RECONSTRUCTION SHALL BE SUPPLIED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE.
20. SIDEWALKS, WALKWAYS AND DRIVEWAYS THAT ARE DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL ONCE THE WORK IS COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
22. ANY POLICE DETAILS REQUIRED SHALL BE INCLUDED IN THE LUMP SUM PRICE AT NO ADDITIONAL COST TO THE OWNER.
22. THE CONTRACTOR SHALL MAINTAIN ACCESS DURING CONSTRUCTION FOR ALL RESIDENTS. ANY TEMPORARY WALKS/RAMPS REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT. ALL DISTURBED AREA IS TO BE RESTORED WITH LOAM (6" MINIMUM) AND SEED AT NO ADDITIONAL COST TO THE OWNER.
24. THE CONTRACTOR SHALL PROVIDE TEMPORARY RAMPS AND WALKWAYS AS NECESSARY TO RESIDENTS.

PAVING AND RECLAMATION NOTES

1. ALL TRENCHES WILL BE COMPACTED TO ALLOW PROPER SETTLEMENT. ALL TRENCHES WILL BE COMPACTED TO 95% COMPACTION. INCLUDE PAYMENT UNDER ASSOCIATED ITEM.
2. PRIOR TO RECLAIMING, THE CONTRACTOR SHALL COMPLETE ALL EXCAVATING AND PREPARING SUBGRADE REQUIRED TO PULVERIZE THE PAVEMENT AND SHALL LOWER ALL CASTINGS AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
3. BOTH PARKING LOTS AND ROADWAYS SHALL BE RECLAIMED TO A MINIMUM DEPTH OF 16" BELOW THE PROPOSED FINISH GRADE WITHIN THE PROJECT LIMITS. THE EXISTING PAVEMENT SHALL BE PULVERIZED TO THE POINT WHERE NO MATERIAL IS GREATER THAN 3".
4. THE CONTRACTOR SHALL RECLAIM THE ENTIRE WIDTH OF EXISTING MATERIAL. THE LIMITS (EDGE OF PAVEMENT) OF THE EXISTING PAVED SURFACES ARE SHOWN IN THE PLAN VIEW OF THESE CONSTRUCTION DRAWINGS.
5. AFTER PULVERIZING THE PARKING LOT ASPHALT PAVEMENT AND UNDERLYING MATERIALS, THE CONTRACTOR SHALL REMOVE AND STOCKPILE (WINROW) THE RECLAIMED MATERIAL. THE CONTRACTOR SHALL THEN EXCAVATE AND REMOVE THE NECESSARY SUBGRADE MATERIAL IN ORDER TO MEET THE FINAL GRADES OF THE PARKING LOTS. THE CONTRACTOR SHALL THEN PLACE, GRADE AND COMPACT THE EXISTING RECLAIMED BASE COURSE TO A 12" DEPTH AS SHOWN ON THE TYPICAL ROADWAY CROSS SECTION. THE SUBBASE SHALL THEN BE FINE GRADED AND COMPACTED TO ALLOW FOR THE PLACEMENT OF: 2" BASE COURSE INTERMEDIATE COURSE PAVEMENT (SIC-19.0-TABLE 460.10-1) AND 1-1/2" SURFACE COURSE (SSC-9.5-TABLE 460.10-1) AND ACCORDING TO MASSDOT SECTION 460-"HOT MIX ASPHALT PAVEMENT FOR LOCAL STREETS"
6. AFTER PULVERIZING THE EXISTING IN PLACE ASPHALT AND UNDERLYING MATERIAL (TOTAL OF 16" DEPTH), THE CONTRACTOR SHALL PLACE, GRADE AND COMPACT THE EXISTING RECLAIMED BASE COURSE TO A 12" DEPTH AS SHOWN ON THE TYPICAL CROSS SECTION.
7. THE CONTRACTOR SHALL GRADE THE EXISTING RECLAIMED SUBBASE MATERIAL OR GRAVEL BORROW MATERIAL TO ALLOW THE FINAL PAVEMENT SURFACE TO MATCH THE EXISTING EDGE OF PAVEMENT GRADES UNLESS OTHERWISE NOTED. THE RECONSTRUCTION OF THE PARKING LOTS SHALL ALSO BE IN ACCORDANCE WITH THE TYPICAL CROSS SECTION DETAIL SHOWN ON THE PLANS. ANY GRADING MODIFICATIONS SHALL DIRECT DRAINAGE TOWARDS THE APPROPRIATE AREAS.
8. ALL PROPOSED CUTS AND FILLS REQUIRED TO GRADE THE RECLAIMED MATERIAL TO A 12" DEPTH SHALL BE INCLUDED FOR PAYMENT UNDER THE APPROPRIATE ITEM.
9. ALL DRAINAGE AND UTILITY CASTINGS SHALL BE LOWERED OR REMOVED AND PLATED PRIOR TO RECLAIMING THE PARKING LOTS. ALL STRUCTURES MUST BE LOWERED TO A DEPTH OF 6 INCHES BELOW THE BOTTOM OF THE PROPOSED RECLAIMED BASE COURSE.
10. THE CONTRACTOR SHALL FINE GRADE THE EXISTING RECLAIMED BASE COURSE MATERIAL NO MORE THAN 24 HOURS PRIOR TO THE PLACEMENT OF THE 2" BASE COURSE PAVEMENT. ALL GRADING, COMPACTION AND DUST CONTROL ASSOCIATED WITH FINE GRADING TO BE INCLUDED IN THE APPROPRIATE RECLAIM ITEM.
11. THE CONTRACTOR SHALL STOCKPILE AND RETAIN SUFFICIENT SURPLUS SUBBASE AND RECLAIMED PAVEMENT SUBBASE MATERIALS TO USE AS NEEDED IN THE ENTIRE PROJECT AREA. THE COSTS ASSOCIATE WITH THE EXCAVATION, PLACEMENT AND DISPOSAL OF SURPLUS SUBBASE MATERIAL SHALL BE INCLUDED IN THE LUMP SUM PRICE. NO ADDITIONAL PAYMENT FOR PLACEMENT SHALL BE MADE. SURPLUS SUBBASE AND RECLAIMED PAVEMENT SUBBASE MATERIAL SHALL BE USED ONSITE PRIOR TO GRAVEL BORROW MATERIAL. ANY EXCESS RECLAIMED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NO ADDITIONAL PAYMENT FOR DISPOSAL SHALL BE MADE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION TESTING. SEE SPECIFICATION SECTION 02250 FOR COMPACTION CONTROL AND TESTING.
13. PRIOR TO COMPLETING FINAL GRADING OF THE RECLAIMED BASE COURSE, THE ENGINEER SHALL REVIEW GRADES TO DETERMINE THAT SUFFICEINT CROSS SLOPES AND POSITIVE DRAINAGE FLOWS HAVE BEEN MAINTAINED. IF GRADES NEED TO BE ADJUSTED, THE CONTRACTOR SHALL REGRADE AS DIRECTED.
14. CROSS SLOPES AT CATCH BASINS SHALL BE ADJUSTED AS NECESSARY TO ASSURE PROPER DRAINAGE.
15. CONTRACTOR SHALL CONTROL DUST DURING CONSTRUCTION USING CALCIUM CHLORIDE AS NECESSARY.
16. DRAINAGE STRUCTURES SHALL BE ADJUSTED OR REMODELED AS REQUIRED TO MEET GRADE AT NO ADDITIONAL COST TO THE OWNER.
17. SHOULDERS OF DRIVEWAY AND PARKING AREAS SHALL BE GRADED FOR A SMOOTH TRANSITION FROM THE PROPOSED EDGE OF PAVEMENT/CURB TO THE EXISTING GRADE.
18. ALL STRUCTURES SHALL BE LOWERED PRIOR TO RECLAIMING AND THEN RAISED TO FINISHED GRADE ONCE BINDER IS PLACED.

FINE GRADING AND COMPACTING

1. THE CONTRACTOR SHALL FINE GRADE AND COMPACT ALL AREAS IN PREPARATION FOR PAVEMENT, INCLUDING, BUT NOT LIMITED TO THE PARKING LOT AREAS AND TRANSITION DRIVEWAY AREAS. THE CONTRACTOR SHALL ALSO STRAIGHT CUT ALL EXISTING JOINTS AND EDGES IN PREPARATION FOR FINAL PAVEMENT.
2. PAYMENT FOR GRADING AND COMPACTING THE PROPOSED OR RECONSTRUCTED BITUMINOUS CONCRETE SIDEWALKS, RAMPS AND DRIVEWAY APRONS SHALL BE INCLUDED IN THE APPROPRIATE SIDEWALK, APRON, OR RAMP ITEM.
3. PAYMENT FOR FINE GRADING AND COMPACTING THE RECONSTRUCTED BITUMINOUS PARKING LOTS SHALL BE INCLUDED IN THE APPROPRIATE CONTRACT ITEM.

RAISING CASTINGS

1. ALL CASTINGS WILL BE RAISED TO FINISHED GRADE AFTER PLACEMENT OF THE 2" BASE PAVING COURSE, PRIOR TO PLACEMENT OF THE 1-1/2" FINAL PAVING COURSE.

CATCH BASIN & DRAIN LINE CLEANING NOTES

1. ALL ACCUMULATED SEDIMENT, DEBRIS, ORGANIC MATTER, ETC. MUST BE REMOVED FROM CATCH BASINS AND DRAINAGE SYSTEM UPON COMPLETION OF THE PROJECT.
2. SILT SACKS SHALL BE PLACED IN ALL CATCH BASINS AS SHOWN ON THE PLAN DURING CONSTRUCTION PERIOD.
3. ALL SEDIMENT AND DEBRIS REMOVED FROM THE CATCH BASIN OR PIPE LINE SHALL BE PROPERLY HANDLED AND DISPOSED OF AT AN OFF-SITE LOCATION IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.
4. ANY REQUIRED MAINTENANCE OR REPAIRS NOTED DURING THE CLEANING AND INSPECTION SHOULD BE ADDRESSED IMMEDIATELY.
5. THE EXISTING DRAIN LINE SHALL BE JETTED, CLEANED, AND A VIDEO OF THE LINE SHALL BE TAKEN AFTER CLEANING.

CURB AND SIDEWALK NOTES

1. BITUMINOUS CONCRETE SIDEWALKS SHALL BE CONSTRUCTED WITH 1-½" TOP COURSE AND A 1-½" BINDER COURSE, ACCORDING TO THE CONSTRUCTION DETAILS AND AS SPECIFIED.
2. CEMENT CONCRETE WALKS SHALL BE A OF MINIMUM 4" THICK. CEMENT CONCRETE RAMPS AND DRIVEWAY APRONS SHALL BE A MINIMUM OF 6" THICK.
3. CEMENT CONCRETE WALKS, RAMPS, AND DRIVEWAY APRONS SHALL BE MINIMUM 4,000 PSI REINFORCED CEMENT CONCRETE.
4. STOCKPILED EXCESS RECLAIMED GRAVEL SHALL BE USED TO REPLACE OR ADJUST THE GRAVEL BASE FOR THE PROPOSED SIDEWALKS THROUGHOUT THE PROJECT AND SHALL BE INCLUDED IN THE SIDEWALK PRICE.
5. ALL GRANITE CURB SHALL BE OF TYPE VA-4 AS SPECIFIED BY MASSDOT AND SHALL INCLUDE ALL LENGTHS – STRAIGHT, RADIUS, TRANSITION AND CURB INLETS.
6. NEW AND/OR SALVAGED GRANITE CURBING SHALL BE SET IN ACCORDANCE WITH THE CONSTRUCTION DETAIL PROVIDED IN CONTRACT DRAWINGS.
7. NEW AND/OR SALVAGED GRANITE CURBING SHALL BE INSTALLED BY THE CONTRACTOR AT THE NEW PROPOSED GRADES AND EDGE OF ROADWAY LINES AS DEPICTED ON THE PLANS

CONSTRUCTION PHASING

1. THE PROPOSED WORK SHALL BE COMPLETED IN PHASES SO AS TO PROVIDE ADEQUATE PARKING DURING CONSTRUCTION FOR RESIDENTS AND VISITORS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CONSTRUCTION PHASING WITH THE NORTH ATTLEBOROUGH HOUSING AUTHORITY AND THE ENGINEER.

ABBREVIATIONS

APPROX	APPROXIMATE
BB	BITUMINOUS BERM CURB
BC	BOTTOM OF CURB
BLDG	BUILDING
BIT	BITUMINOUS CONCRETE
CB	CATCH BASIN
CC	CONCRETE CURB
CCB	CAPE COD BERM
CIP	CAST-IN-PLACE
CLF	CHAIN LINK FENCE
CONC	CONCRETE
D	DRAIN
DI	DUCTILE IRON
DRV	DRIVEWAY
DMH	DRAIN MANHOLE
E	ELECTRIC
EMH	ELECTRIC MANHOLE
EOC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
EX	EXISTING
HCR	HANDICAPPED RAMP
HYD	HYDRANT
INV	INVERT
LF	LINEAR FEET
LP	LIGHT POLE
MH	MANHOLE
N/F	NOW OR FORMERLY
NO	NUMBER
PROP	PROPOSED
R	RIM
SMH	SEWER MANHOLE
SPEC	SPECIFICATION
SW	SIDEWALK
TC	TOP OF CURB
TH	THRESHOLD
TYP	TYPICAL
UP	UTILITY POLE
VGC	VERTICAL GRANITE CURB

EXISTING LEGEND

EXIST. MAG NAIL BENCHMARK
EXIST. CATCH BASIN
EXIST. ROUND CATCH BASIN
EXIST. DRAIN MANHOLE
EXIST. SEWER MANHOLE
EXIST. MANHOLE
EXIST. ELECTRIC MANHOLE
EXIST. PULL BOX
EXIST. HYDRANT
EXIST. WATER GATE VALVE
EXIST. GAS GATE VALVE
EXIST. BOLLARD
EXIST. LIGHT POST
EXIST. SIGN
EXIST. FLAG POLE
EXIST. SITE BENCH
EXIST. BLDG. (APPROX.)
EXIST. DRAIN LINE (D)
EXIST. SEWER LINE (S)
EXIST. WATER LINE (W)
EXIST. ELECTRIC LINE (E)
EXIST. GAS LINE (G)
EXIST. TELEPHONE LINE (T)
EXIST. PLUMBING (P)
EXIST. CURB
EXIST. CHAIN LINK FENCE
EXIST. VINYL FENCE
EXIST. WALL
EXIST. 5' CONTOURS (140)
EXIST. 1' CONTOURS (138)
EXIST. SPOT GRADE (×41.29)
EXIST. TREE W/ DIAMETER (36")
EXIST. TREE/VEGETATION LINE
APPROX. ABUTTER LOT LINE

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

NOTES AND LEGEND

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

MICHAEL J. CARTER CIVIL No. 35907 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS
11/12/2025

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

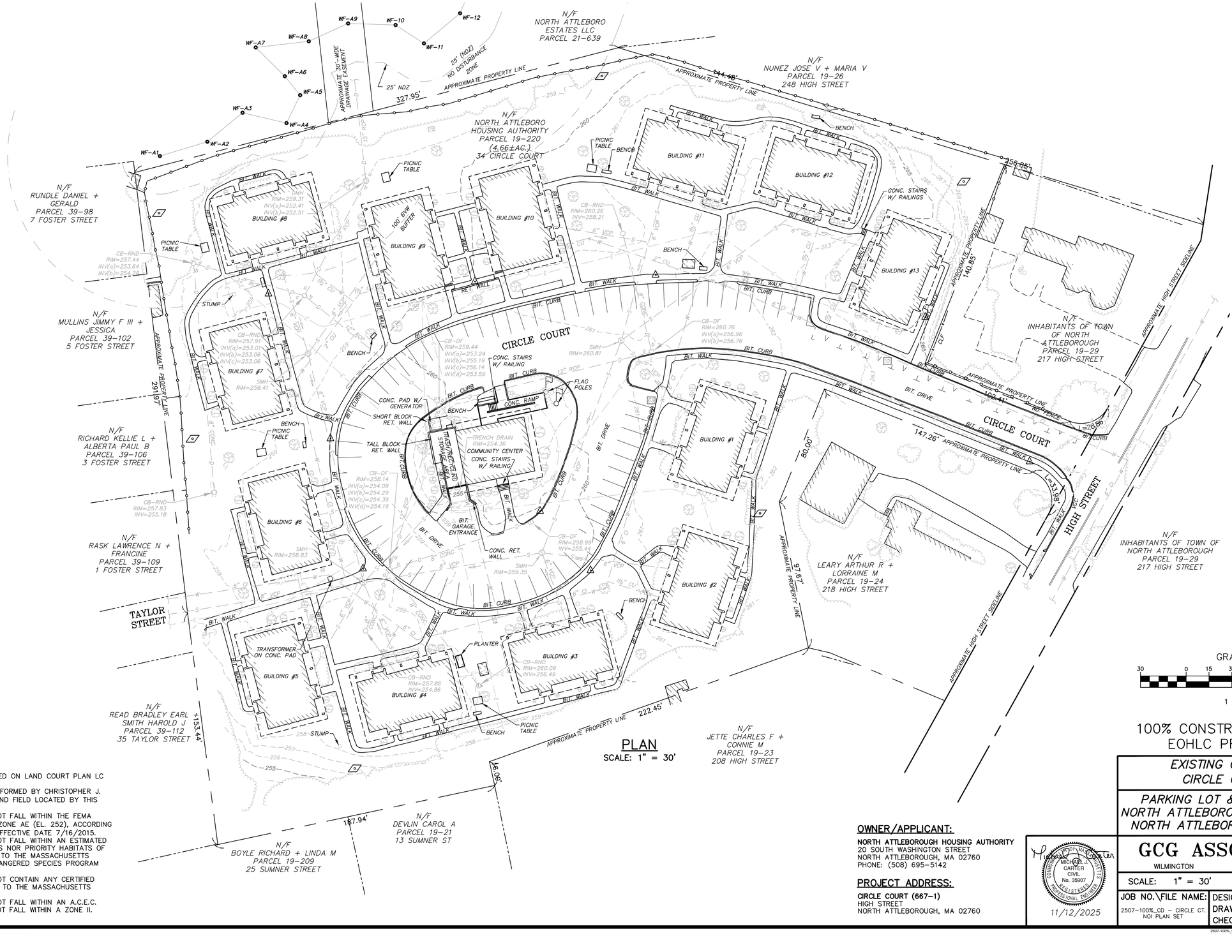
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JOB NO.\FILE NAME: 2507-100%_CD – CIRCLE CT. NOI PLAN SET
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 2 OF 10

Tab: 2-C_E_Notes Plot Style: GCG-2018.ctb Plotted By: Rosey Howe
2507-100%_CD - Circle Ct. NOI Plan Set.dwg Saved: 12/19/2025 12:25 PM Plotted: Dec 22, 2025 9:22:am

NAD-83

CIRCLE COURT (667-1) HOUSING



PLAN
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

NOTES:

1. PROPERTY BOUNDARY BASED ON LAND COURT PLAN LC #31895 A & C.
2. WETLAND DELINEATION PERFORMED BY CHRISTOPHER J. CAPONE ON 9/05/2025, AND FIELD LOCATED BY THIS OFFICE ON 9/29/2025.
3. LOCUS PROPERTY DOES NOT FALL WITHIN THE FEMA NATIONAL FLOOD HAZARD ZONE AE (EL. 252), ACCORDING TO PANEL 25005C0102G, EFFECTIVE DATE 7/16/2015.
4. LOCUS PROPERTY DOES NOT FALL WITHIN AN ESTIMATED HABITATS OF RARE SPECIES NOR PRIORITY HABITATS OF RARE WILDLIFE ACCORDING TO THE MASSACHUSETTS NATURAL HERITAGE & ENDANGERED SPECIES PROGRAM (NHESP).
5. LOCUS PROPERTY DOES NOT CONTAIN ANY CERTIFIED VERNAL POOLS ACCORDING TO THE MASSACHUSETTS NATURAL HERITAGE.
6. LOCUS PROPERTY DOES NOT FALL WITHIN AN A.C.E.C.
7. LOCUS PROPERTY DOES NOT FALL WITHIN A ZONE II.

OWNER/APPLICANT:
NORTH ATTLEBOROUGH HOUSING AUTHORITY
20 SOUTH WASHINGTON STREET
NORTH ATTLEBOROUGH, MA 02760
PHONE: (508) 695-5142

PROJECT ADDRESS:
CIRCLE COURT (667-1)
HIGH STREET
NORTH ATTLEBOROUGH, MA 02760

MICHAEL J. CARTER CIVIL No. 35907 REGISTERED PROFESSIONAL ENGINEER
11/12/2025

EXISTING CONDITIONS PLAN
CIRCLE COURT (667-1)

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1" = 30' DATE: NOVEMBER 12, 2025

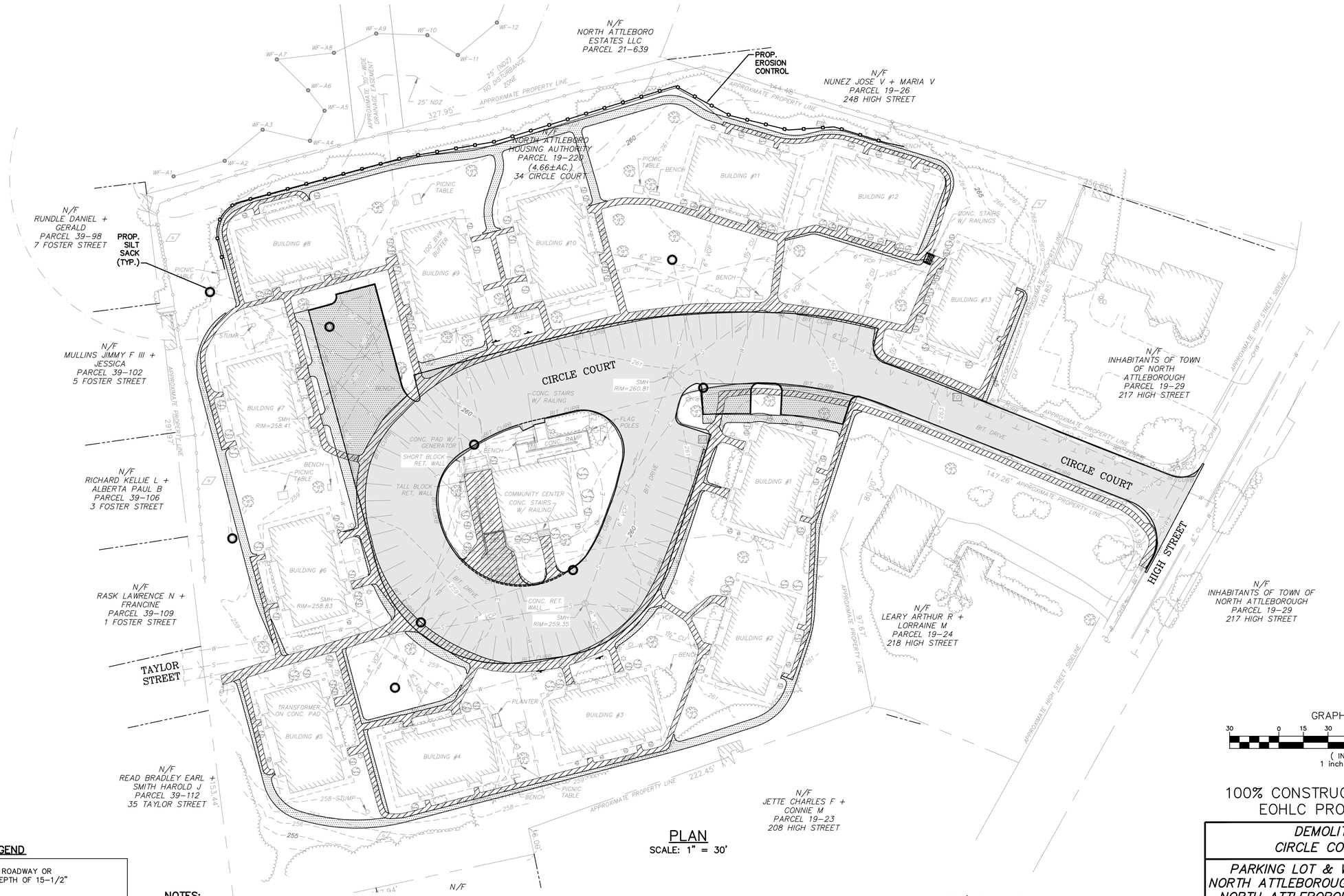
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DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 3 OF 10

Tab: 3-C, EXISTING Plot Style: GCG-2015.ctb Plotted By: Rooney Howe

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NAD-83

CIRCLE COURT HOUSING DEVELOPMENT



PLAN
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

SITE DEMOLITION LEGEND

- RECLAIM EXISTING ROADWAY OR DRIVEWAY TO A DEPTH OF 15-1/2"
- EXCAVATE NEW AREAS TO SUB GRADE: 15-1/2" BELOW FINISHED GRADE FOR ROADWAYS AND PARKING AREAS, 11" BELOW FINISHED GRADE FOR SIDEWALKS
- EXCAVATE EXISTING SIDEWALKS TO SUB GRADE: 11" BELOW FINISHED GRADE FOR SIDEWALKS

NOTES:

1. INDIVIDUAL BITUMINOUS CONCRETE ACCESS WALKWAYS LESS THAN 5 FEET WIDE SHALL BE REMOVED AND EXCAVATED TO SUBGRADE AT A MINIMUM OF 5 FEET WIDE. ENTRANCE WALKWAYS GREATER THAN 5 FEET WIDE SHALL BE REMOVED AND EXCAVATED TO SUBGRADE TO THE EXISTING WIDTH.
2. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED AND SEEDED.
3. ALL DRAINAGE FRAMES AND GRATES SHALL BE REMOVED AND PLATED PRIOR TO RECLAMATION.
4. ALL DRAINAGE STRUCTURES SHALL BE CLEANED UPON COMPLETION OF WORK.

OWNER/APPLICANT:
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PROJECT ADDRESS:
CIRCLE COURT (667-1)
HIGH STREET
NORTH ATTLEBOROUGH, MA 02760

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
11/12/2025

DEMOLITION PLAN
CIRCLE COURT (667-1)

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1" = 30' DATE: NOVEMBER 12, 2025

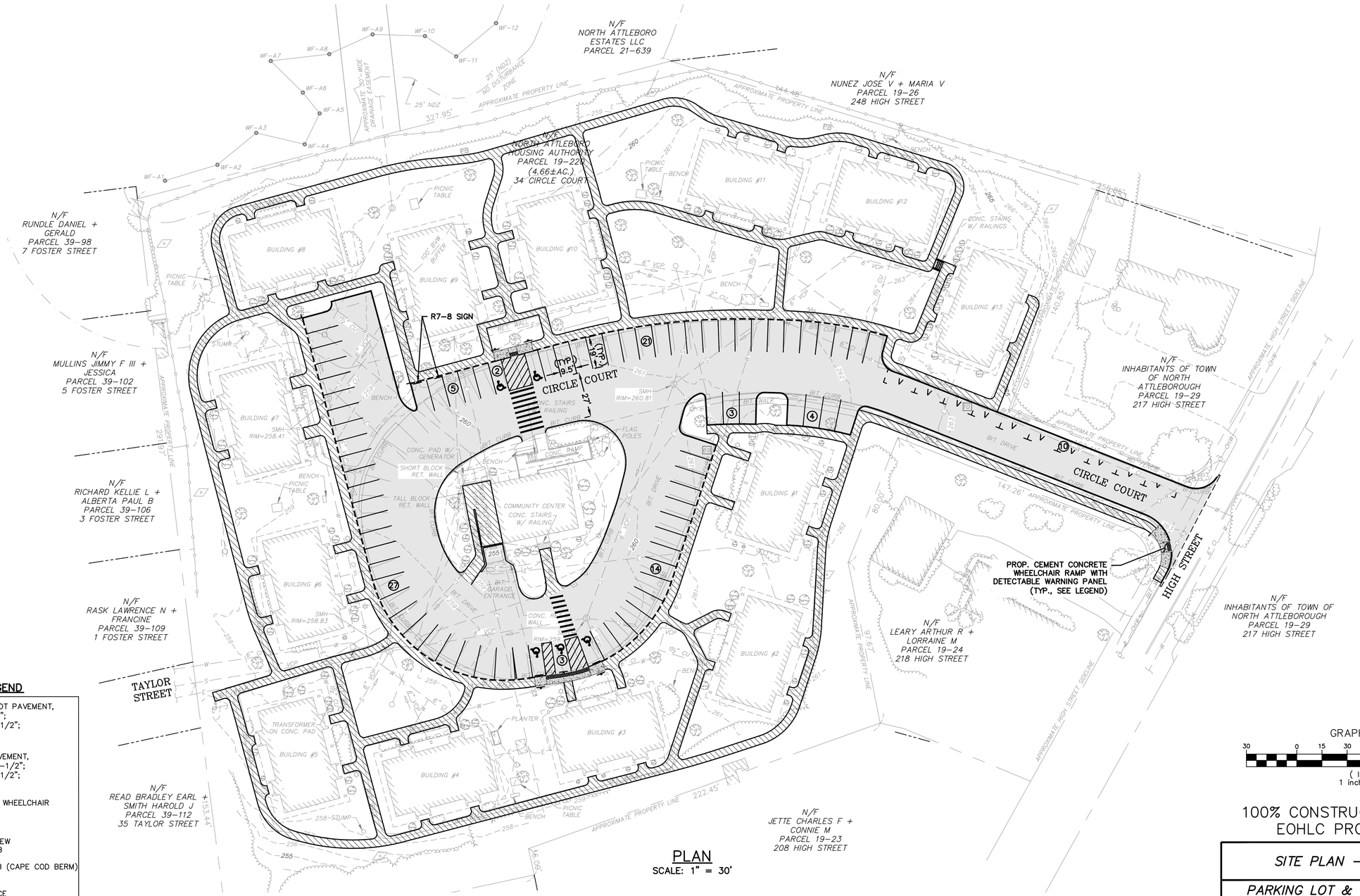
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DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 4 OF 10

Tab: 4-C_DEMO Plot Style: GCG-2018.ctb Plotted By: Rosey Howe

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NAD-83

CIRCLE COURT HOUSING DEVELOPMENT



SITE IMPROVEMENT LEGEND

- ROADWAY & PARKING LOT PAVEMENT, HMA BASE COURSE = 2"; HMA TOP COURSE = 1-1/2"; GRAVEL BASE = 12";
- SIDEWALK/WALKWAY PAVEMENT, HMA BASE COURSE = 1-1/2"; HMA TOP COURSE = 1-1/2"; GRAVEL BASE = 8";
- NEW CEMENT CONCRETE WHEELCHAIR RAMP, THICKNESS = 6"
- REMOVE & RESET OR NEW VERTICAL GRANITE CURB
- HOT MIX ASPHALT CURB (CAPE COD BERM)
- EXISTING PARKING SPACE
  EXISTING TOTAL PARKING SPACES=79
  (69 PARKING SPACES, 10 VISITOR SPACE, ADA/AAB SPACE NOT ASSIGNED)
- (4) PROPOSED PARKING SPACE
  PROPOSED TOTAL PARKING SPACES=89
  (74 PARKING SPACES, 10 VISITOR SPACE, AND 5 ADA/AAB SPACES)

PLAN
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

OWNER/APPLICANT:
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PROJECT ADDRESS:
CIRCLE COURT (667-1)
HIGH STREET
NORTH ATTLEBOROUGH, MA 02760

MICHAEL J. CARTER CIVIL No. 35907 REGISTERED PROFESSIONAL ENGINEER
11/12/2025

SITE PLAN – CIRCLE COURT

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1" = 30' DATE: NOVEMBER 12, 2025

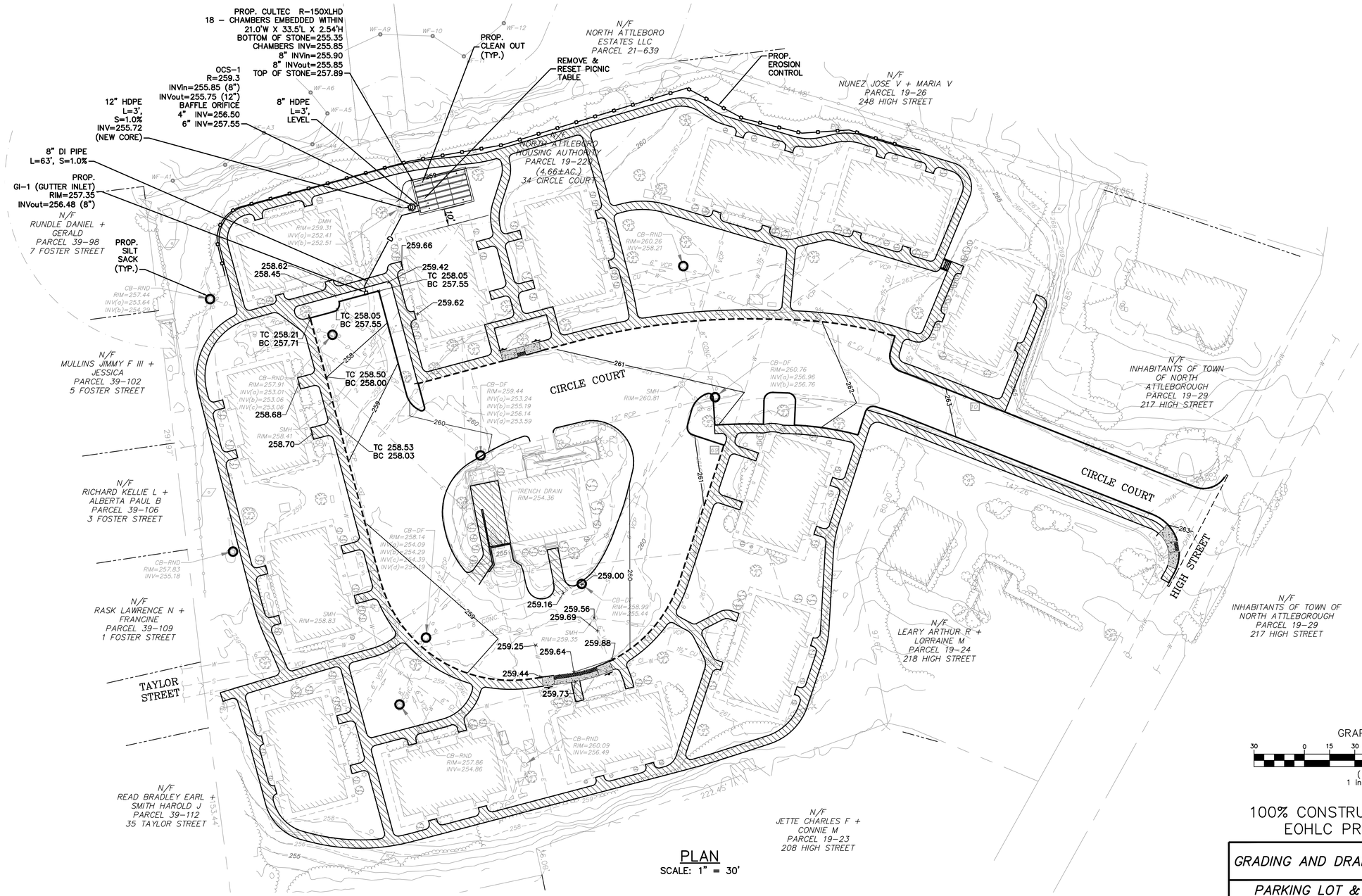
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DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 5 OF 10

Tab: S-C_PROP Plot Style: GCG-2018.ctb, Plotted By: Rosey Howe

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NAD-83

CIRCLE COURT HOUSING DEVELOPMENT



PLAN
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

100% CONSTRUCTION DOCUMENTS
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PROJECT ADDRESS:
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MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
11/12/2025

GRADING AND DRAINAGE - CIRCLE COURT

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

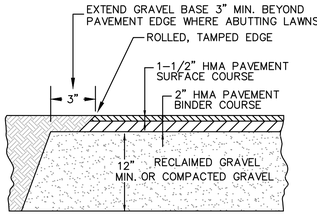
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1" = 30' DATE: NOVEMBER 12, 2025

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2507-100%_CD - CIRCLE CT. NOI PLAN SET	DRAWN BY: W.R.H.	6 OF 10
	CHECKED BY: M.J.C.	

Tab: 6-C GRADE & DRAIN Plot Style: GCG-2018.ctb Plotted By: Rosey Howe

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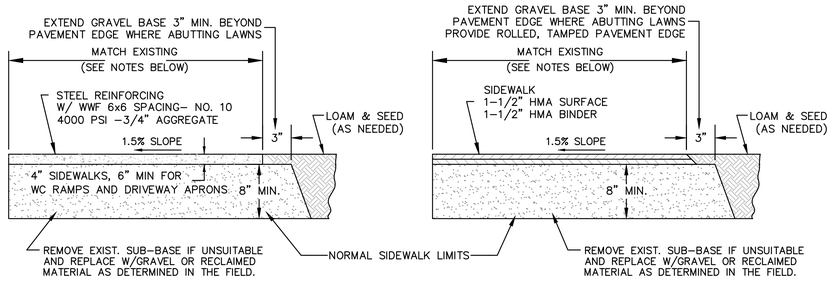


NOTES:

1. PRIOR TO COMPLETING FINAL GRADING OF THE RECLAIMED BASE COURSE THE ENGINEER SHALL REVIEW GRADES TO DETERMINE THAT SUFFICIENT DRAINAGE PATTERNS AND CURB REVEAL ARE MAINTAINED. IF GRADES NEED TO BE ADJUSTED, THE CONTRACTOR SHALL REGRADE AS DIRECTED. THE COST TO PERFORM THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE.
2. PROVIDE JOINT SEALANT WHERE PAVING ABUTS CURBING, WALLS, STEPS, CASTINGS, ETC.

TYPICAL DRIVEWAY & PARKING PAVEMENT SECTION

N.T.S.



CEMENT CONCRETE

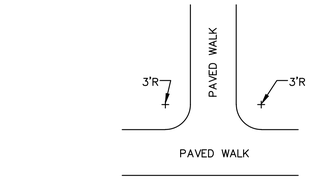
HMA PAVEMENT

NOTES:

1. GRAVEL IN AREAS OF EXISTING SIDEWALKS WHICH ARE BEING REMOVED OR REPLACED IN THE SAME LOCATION SHALL BE REGRADED AND SUPPLEMENTAL GRAVEL ADDED. ADDITIONAL GRAVEL REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE.
2. EXCAVATION AND PLACEMENT OF GRAVEL REQUIRED FOR NEW SIDEWALKS, WIDENING SIDEWALKS AND PAVED AREA SHALL BE INCLUDED IN THE CONTRACT PRICE. DISPOSAL OF THE EXCAVATED MATERIAL SHALL ALSO BE INCLUDED IN THE CONTRACT PRICE.
3. REMOVAL OF STUMPS AND CUTTING AND DISPOSAL OF ROOTS SHALL BE INCLUDED IN THE CONTRACT COST TO CONSTRUCT WALKWAYS.
4. PROVIDE JOINT SEALANT WHERE PAVING ABUTS CURBING, WALLS, STEPS, CASTINGS, ETC.
5. WHERE WALKWAY ABUT TO CONCRETE STEP, INCREASE GRAVEL GRAVEL BASE TO 18" THICK FOR A MINIMUM OF 18" IN FRONT OF THE STEP.

SIDEWALK DETAIL

N.T.S.

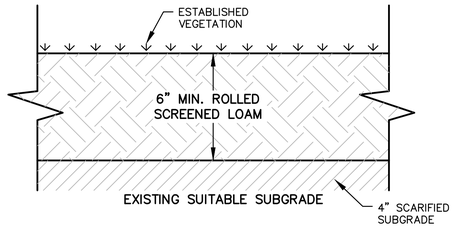


NOTES:

1. ALL WALKWAYS SHALL HAVE A 3' RADIUS AT INTERSECTIONS.

TYPICAL PAVED WALKWAY INTERSECTION DETAIL

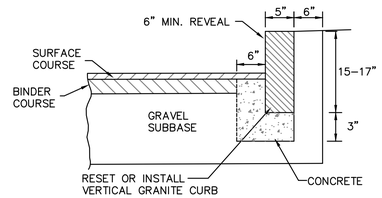
N.T.S.



1. ALL DISTURBED AREAS TO BE LOAMED WITH A MINIMUM OF 6–INCHES OF SCREENED LOAM IN ACCORDANCE WITH MASSACHUSETTS HIGHWAY DEPARTMENT (MHD) STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES SECTION 751. LOAM MATERIAL SHALL MEET MHD M1.05.0 MATERIAL SOURCE AND IN–PLACE LABORATORY ANALYTICAL TESTING OF LOAM FOR COMPLIANCE WITH M1.05.0 MAY BE REQUIRED BY THE OWNER PRIOR TO PLACEMENT AND FINAL ACCEPTANCE.
2. AFTER PLACEMENT, ROLLING AND RAKING OF THE SCREENED TOPSOIL, SEEDING AND FERTILIZING OF THE TOP SOIL SHALL BE IN ACCORDANCE WITH MHD STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES SECTION 765. IF NECESSARY, REFERTILIZATION SHALL OCCUR IN ACCORDANCE WITH MHD SECTION 766.
3. MULCHING SHALL BE IN ACCORDANCE WITH MHD SECTION 767, FOR AREAS SPECIFICALLY INDICATED ON THE DRAWINGS, OR AS FIELD CONDITIONS MAY WARRANT.
4. SEED MIX, FERTILIZER AND MULCHING MATERIALS SHALL COMPLY WITH SECTION M6 OF MHD STANDARD SPECIFICATIONS FOR ROADSIDE DEVELOPMENT MATERIALS. SUBMITTAL REQUIREMENTS MAY INCLUDE PRODUCT LABELS OR LABORATORY ANALYTICAL TESTING, AS MAY BE REQUESTED BY THE OWNER OR THEIR AGENTS.

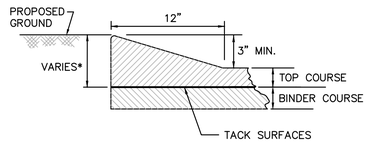
LOAM & SEED

NOT TO SCALE



VERTICAL GRANITE CURB

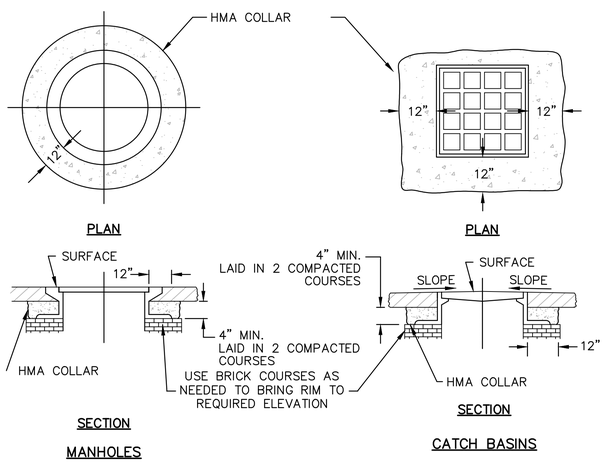
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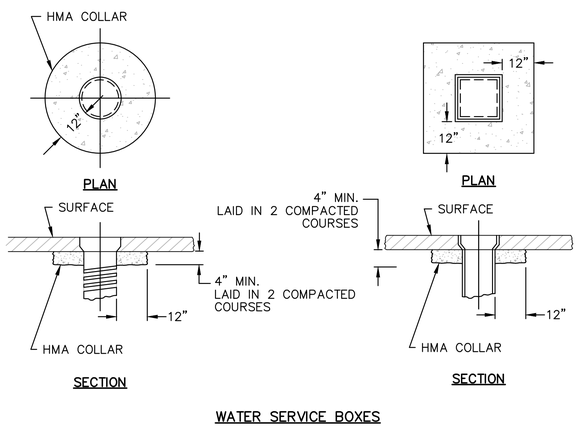


* THIS DIMENSION VARIES WITH THE THICKNESS OF THE TOP COURSE

MONOLITHIC CAPE COD (SHOE) BERM DETAIL

N.T.S.





WATER SERVICE BOXES

DETAILS FOR RAISING CASTINGS

N.T.S.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

DETAILS I

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

MICHAEL J. CARTER CIVIL No. 35907 REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
11/12/2025

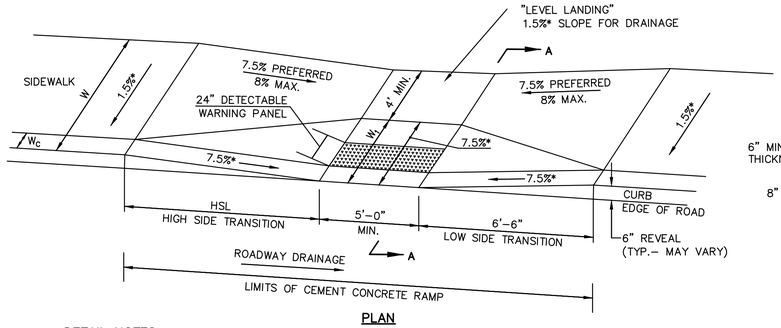
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: NOT TO SCALE DATE: NOVEMBER 12, 2025

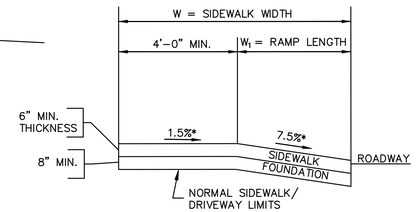
JOB NO.\FILE NAME: 2507–100%_CD – CIRCLE CT. NOI PLAN SET
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 7 OF 10

Tab: 7-C DETAILS I Plot Style: GCG 2018.ctb Plotted By: Rosey Howe

2507-100%_CD - Circle Ct. NOI Plan Set.dwg Saved: 12/19/2025 12:23 PM Plotted: Dec 22, 2025 9:23 am

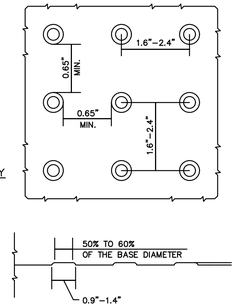


PLAN



* = TOLERANCE FOR CONSTRUCTION ±0.5%
USEABLE SIDEWALK WIDTH PER ABB = $W-W_c$
RAMP LENGTH, $W_1 = W - (4'-0")$ MIN.

SECTION A–A



STAMPED CONCRETE
DETECTABLE WARNING PANEL

N.T.S.

DETAIL NOTES:

1. ALL HANDICAP RAMPS SHALL BE PORTLAND CEMENT CONCRETE 6" THICK.
2. CURBING FOR ALL CONCRETE RAMPS SHALL BE VERTICAL GRANITE CURB (Wc=6") OR SLOPED GRANITE CURB (Wc=0"), SEE PLAN FOR TYPE.
3. THE DIMENSIONS SHOWN AT ROADWAY EDGE ARE FIXED DISTANCES.
4. RAMP CROSS SECTION TO BE SAME AS ADJACENT SIDEWALK; e.g DEPTH OF SURFACES.
5. PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY BROOMING IN A DIRECTION PARALLEL TO THE LENGTH OF THE RAMP.
6. THESE DIMENSIONS ARE SUBJECT TO CHANGE IN THE FIELD IF EXISTING APPURTENANCES OR CONDITIONS WILL MAKE THE RAMP LOCATIONS IMPRACTICAL OR UNSAFE.

ROADWAY PROFILE GRADE %	*HIGH SIDE TRANSITION LENGTH
0	6'-6"
> 0 – 1	7'-8"
> 1 – 2	9'-0"
> 2 – 3	11'-0"
> 3 – 4	14'-0"
> 4	15'-0" MAX.

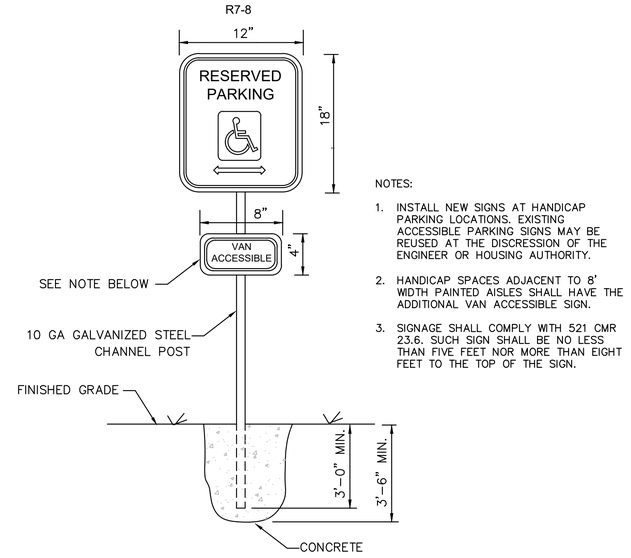
* BASED ON DESIGN SLOPE = 7.5% AND A CURB REVEAL OF 6".

CURB TRANSITION LENGTH
FOR WHEELCHAIR RAMPS

WHEELCHAIR RAMP NOTES

1. ROADWAY SIDEWALK CROSS SLOPES, FOR BRICK, CEMENT CONCRETE, AND HMA, AS INDICATED IN THE STANDARD SPECIFICATIONS, WILL BE 1.5%. A CONSTRUCTION TOLERANCE OF ±0.5% IS ACCEPTABLE ON ROADWAY SIDEWALKS. IN ACCORDANCE WITH 521 CMR THE RULES AND REGULATIONS OF THE ARCHITECTURAL ACCESS BOARD (AAB), THE SIDEWALK CROSS SLOPE CANNOT EXCEED 2.0%.
2. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'–3" SHALL BE MAINTAINED PAST ALL OBSTRUCTIONS (UTILITY POLES, SIGNS, SIGNAL FOUNDATIONS AND MASTS, MAILBOXES, ALONG DRIVE OPENINGS, ETC.).
3. THE WHEELCHAIR RAMP SLOPES AND SIDE SLOPES (TRANSITIONS) WILL BE 7.5% WITH A CONSTRUCTION TOLERANCE OF ±0.5%. HOWEVER, THESE SLOPES MAY BE FLATTER WHEN WARRANTED BY SURROUNDING CONDITIONS.
4. IF THE ROAD PROFILE EXCEEDS 4%, THE HIGH SIDE TRANSITION LENGTH UNDER ANY CONDITIONS NEED NOT EXCEED 15'.
5. IN NO CASE WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED ON THE TRAFFIC APPROACH SIDE OF THAT STOP LINE.
6. FIXED OBJECTS (I.E. UTILITY POLES, HYDRANTS, SIGNS, SIGNAL FOUNDATIONS, ETC.) MUST NOT ENCROACH UPON ANY PART OF THE WHEELCHAIR RAMP INCLUDING TRANSITION SLOPES.
7. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP, EXCLUDING CURB TRANSITIONS, TO BE LOCATED OUTSIDE THE CROSSWALK OR PEDESTRIAN TRAVEL PATH. THE WHEELCHAIR RAMP ENTRANCE IS TO BE CENTERED IN THE CROSSWALK OR PEDESTRIAN TRAVEL PATH WHENEVER POSSIBLE.
8. CATCH BASINS WHICH ARE IN THE VICINITY OF A WHEELCHAIR RAMP SHALL BE LOCATED UPGRADE OF THE RAMP ENTRANCE.
9. THE ENTRANCE OF A WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
10. TESTING SURFACE: WHEN TESTING WITH A STRAIGHTEDGE PLACED PARALLEL TO THE LINE OF THE SLOPE THERE SHALL BE NO DEVIATION FROM A TRUE SURFACE IN EXCESS OF 1/4".
11. SIDEWALK CONSTRUCTION SHALL BE IN CONFORMANCE WITH MASS HIGHWAY CONSTRUCTION STANDARDS FOR WHEELCHAIR RAMPS.

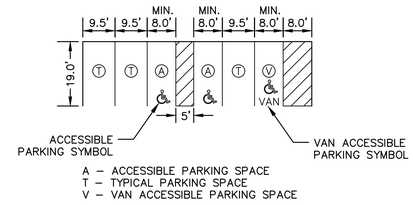
TYPICAL WHEELCHAIR RAMP CONDITION
N.T.S.



NOTES:

1. INSTALL NEW SIGNS AT HANDICAP PARKING LOCATIONS. EXISTING ACCESSIBLE PARKING SIGNS MAY BE REUSED AT THE DISCRESSION OF THE ENGINEER OR HOUSING AUTHORITY.
2. HANDICAP SPACES ADJACENT TO 8' WIDTH PAINTED AISLES SHALL HAVE THE ADDITIONAL VAN ACCESSIBLE SIGN.
3. SIGNAGE SHALL COMPLY WITH 521 CMR 23.6. SUCH SIGN SHALL BE NO LESS THAN FIVE FEET NOR MORE THAN EIGHT FEET TO THE TOP OF THE SIGN.

HANDICAP SIGN AND FOOTING DETAIL
N.T.S.



A – ACCESSIBLE PARKING SPACE
T – TYPICAL PARKING SPACE
V – VAN ACCESSIBLE PARKING SPACE

NOTES:

1. VAN ACCESSIBLE SPACES MUST HAVE AN 8' WIDE MINIMUM ACCESS AISLE.
2. ALL OTHER ACCESS AISLES SHALL BE 5' WIDE, MINIMUM.
3. TYPICAL PARKING STALLS SHALL BE 9' WIDE UNLESS NOTED ON THE PLANS.
4. ACCESSIBLE SPACES AND AISLES 2% MAX SLOPE IN ANY DIRECTION.
5. RE–NUMBER PARKING SPACES WHERE APPLICABLE.

TYPICAL LINE STRIPING DETAIL
N.T.S.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

DETAILS II

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
11/12/2025

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: NOT TO SCALE DATE: NOVEMBER 12, 2025

JOB NO.\FILE NAME: 2507–100%_CD – CIRCLE CT. NOI PLAN SET
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 8 OF 10

Tab: 8 C_DETAILS II Plot Style: GCG-2018.ctb Plotted By: Rosey Howe

2507-100%_CD - Circle Ct. NOI Plan Set.dwg Saved: 12/19/2025 12:23 PM Plotted: Dec 22, 2025 9:23 am

CULTEC RECHARGER® 150XLHD SPECIFICATIONS

GENERAL

CULTEC RECHARGER® 150XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBERS SHALL BE DESIGNED AND TESTED VIA FINITE ELEMENT ANALYSIS IN ACCORDANCE WITH THE ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:
   a. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER.
   b. MAXIMUM PERMANENT (50-YEAR) COVER LOAD.
   c. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD.
3. THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
   a. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75.
   b. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95.
4. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR
5. THE CHAMBER SHALL BE ARCHED IN SHAPE.
6. THE CHAMBER SHALL BE OPEN-BOTTOMED.
7. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
8. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 150XLHD SHALL BE 18.5 INCHES (470 mm) TALL, 33 INCHES (838 mm) WIDE AND 11 FEET (3.35 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 150XLHD SHALL BE 10.25 FEET (3.12 m).
9. MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 12 INCHES (300 mm) HDPE OR 15" (375 mm) SMOOTH-WALL PVC.
10. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV® FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL INSIDE DIMENSIONS OF EACH SIDE PORTAL SHALL BE 8.5 INCHES (216 mm) HIGH BY 12 INCHES (304 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 10.25 INCHES (260 mm).
11. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV® FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (615 mm) LONG.
12. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 150XLHD CHAMBER SHALL BE 2.650 FT³ / FT (0.246 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 150XLHD SHALL BE 27.16 FT3 / UNIT (0.77 m³ / UNIT) - WITHOUT STONE.
13. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
14. THE RECHARGER 150XLHD CHAMBER SHALL HAVE THIRTY DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
15. THE RECHARGER 150XLHD CHAMBER SHALL HAVE 20 CORRUGATIONS.
16. THE ENDWALL OF THE CHAMBER, WHEN PRESENT, SHALL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
17. THE RECHARGER 150XLHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE ENDWALLS.
18. THE RECHARGER 150XLSHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 mm) HIGH X 20.5 INCHES (521 mm) WIDE.
19. THE RECHARGER 150XLIHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 mm) HIGH X 20.5 INCHES (521 mm) WIDE.
20. THE RECHARGER 150XLEHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
21. THE HVLV® FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE RECHARGER 150XLHD AND ACT AS CROSS FEED CONNECTIONS.
22. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
23. THE CHAMBER SHALL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
24. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
25. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.
26. MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.65 m).
27. THE INSTALLED CHAMBER SYSTEM SHALL BE STRUCTURALLY DESIGNED TO PROVIDE RESISTANCE TO LIVE LOADS AS DEFINED BY THE AASHTO H-20/HL-93 SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

CULTEC HVLV® FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL

CULTEC HVLV FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER 150XLHD STORMWATER CHAMBERS.

CHAMBER PARAMETERS

1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
3. THE CHAMBER SHALL BE ARCHED IN SHAPE.
4. THE CHAMBER SHALL BE OPEN-BOTTOMED.
5. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT3 / FT (0.085 m³ / m) - WITHOUT STONE.
7. THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
8. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
9. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE

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

GEOTEXTILE PARAMETERS

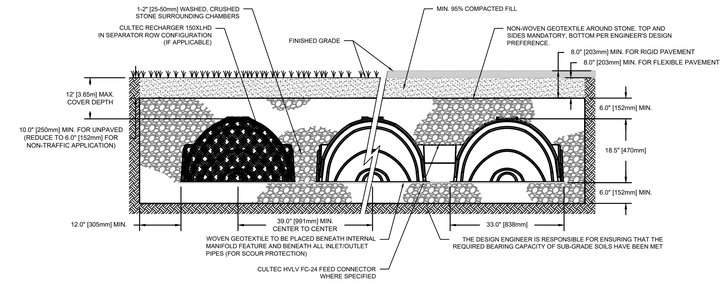
1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).
4. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632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

CULTEC AFAB-HPF™ WOVEN GEOTEXTILE

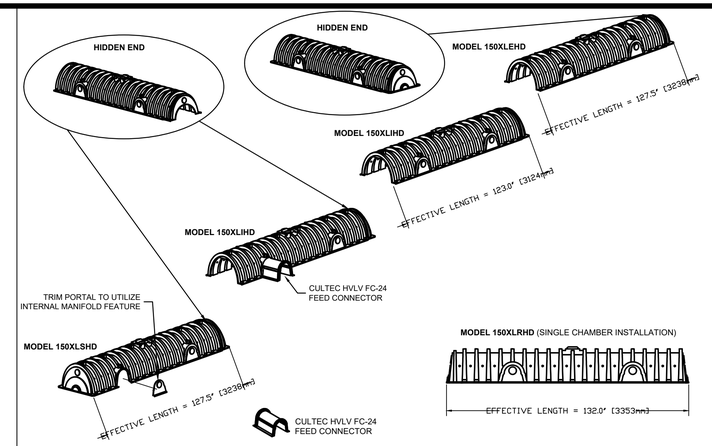
CULTEC AFAB-HPF WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT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

GEOTEXTILE PARAMETERS

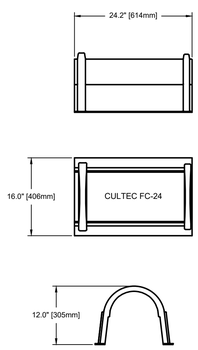
1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 320 X 320 LBS (1,420 X 1,420 N) PER ASTM D4632 TESTING METHOD.
4. THE GEOTEXTILE SHALL HAVE A ELONGATION @ BREAK RESISTANCE OF 15 X 15% PER ASTM D4632 TESTING METHOD.
5. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 3,563 X 3,563 LBS/FT (52 X 52 KN/M) PER ASTM D4595 TESTING METHOD.
6. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,500 LBS (6,670 N) PER ASTM D6241 TESTING METHOD.
7. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 120 X 120 LBS (540 X 540 N) PER ASTM D4533 TESTING METHOD.
8. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 30 US STD. SIEVE (0.60 MM) PER ASTM D4751 TESTING METHOD.
9. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.2 SEC-1 PER ASTM D4491 TESTING METHOD.
10. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 22 GPM/FT2 (900 LPM/M2) PER ASTM D4491 TESTING METHOD.
11. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 70% @ 500 HRS. PER ASTM D4355 TESTING METHOD.



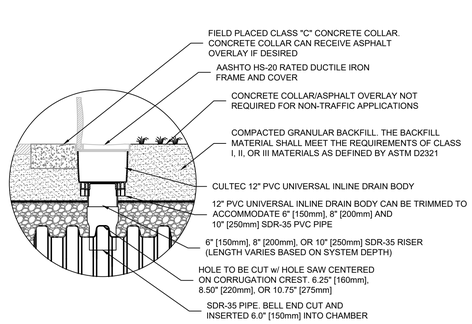
CULTEC RECHARGER 150XLHD CROSS SECTION



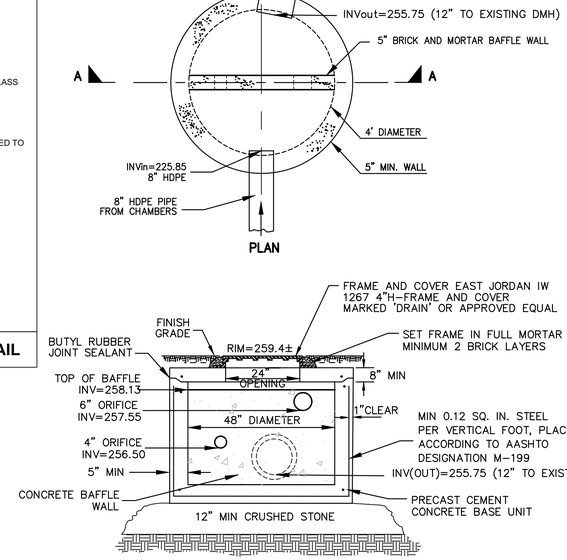
CULTEC RECHARGER 150XLHD HEAVY DUTY TYPICAL INTERLOCK



CULTEC HVLV FC-24 FEED CONNECTOR THREE VIEW



OPTIONAL CULTEC INSPECTION PORT - ZOOM DETAIL



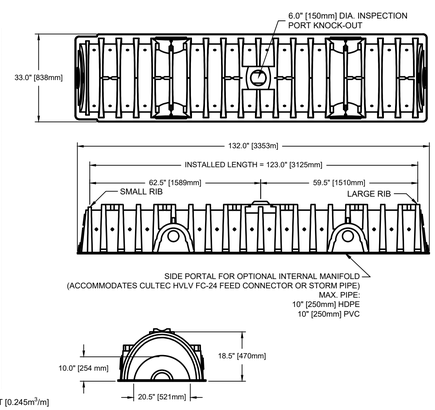
PRECAST CONCRETE OUTLET CONTROL STRUCTURE (OCS-1)

N.T.S.

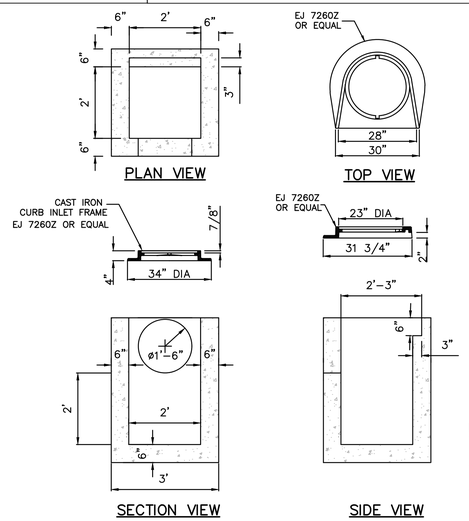
GENERAL NOTES

MODEL 150XLRHD STAND ALONE	
SMALL RIB	LARGE RIB
MODEL 150XLSHD STARTER	
SMALL RIB	LARGE RIB
MODEL 150XLIHD INTERMEDIATE	
SMALL RIB	LARGE RIB
MODEL 150XLEHD END	
SMALL RIB	LARGE RIB

CULTEC RECHARGER 150XLHD CHAMBER STORAGE = 2.65 CF/FT [0.245m³/m]
INSTALLED LENGTH ADJUSTMENT = 0.75' [0.23 m]



CULTEC RECHARGER 150XLHD HEAVY DUTY THREE VIEW



24" X 27" CURB INLET WITH 24"H SUMP (MIN.) PRECAST CONCRETE

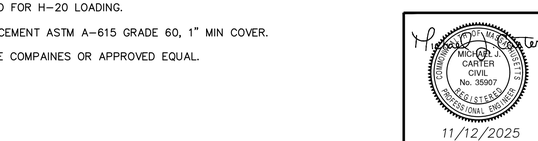
N.T.S.

NOTES:
1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGNED FOR H-20 LOADING.
3. REINFORCEMENT ASTM A-615 GRADE 60, 1" MIN COVER.
4. SCITUATE COMPAINES OR APPROVED EQUAL.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

DETAILS III

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS



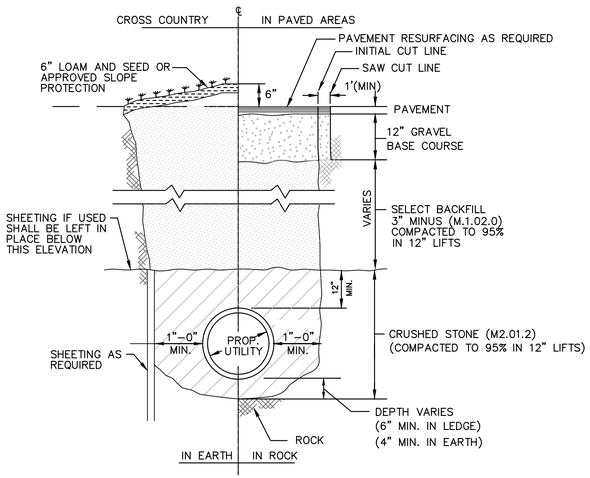
11/12/2025

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: NOT TO SCALE	DATE: NOVEMBER 12, 2025	
JOB NO.\FILE NAME: 2507-100%_CD – CIRCLE CT. NOI PLAN SET	DESIGNED BY: W.R.H.	PLAN NO.
	DRAWN BY: W.R.H.	9 OF 10
	CHECKED BY: M.J.C.	

Tab: 9-C_DETAILS III Plot Style: GCG-2018.ctb Plotted By: Rosey Howe

2507-100%_CD - Circle Ct. NOI Plan Set.dwg Saved: 12/19/2025 12:25 PM Plotted: Dec 22, 2025 9:23 am



TYPICAL DRAIN TRENCH DETAIL
N.T.S.

EROSION AND SEDIMENT CONTROL MAINTENANCE

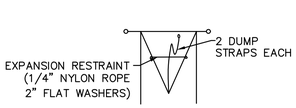
DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED OR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING AS TO PREVENT EROSION.

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF REQUEST.

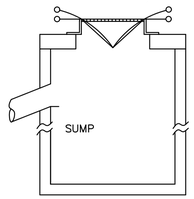
THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FORM ALL DRAINAGE STRUCTURES, AND PIPES AT THE COMPLETION ON CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

TRENCHES WITHIN PAVED ROADWAY TO BE CLOSED WITH 3" TEMPORARY PAVEMENT AT THE END OF EACH WORK DAY.

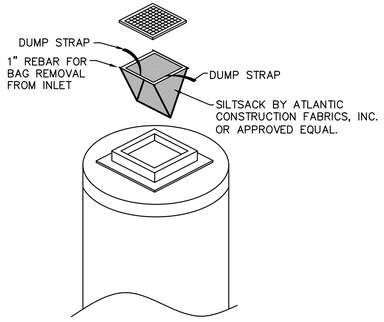
CONTRACTOR TO PERFORM STREET SWEEPING AT THE END OF EACH WORK DAY.



BAG DETAIL

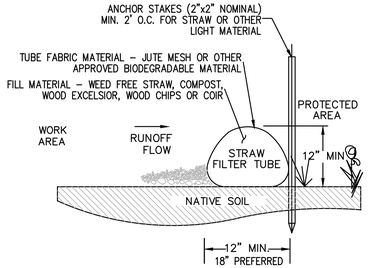


INSTALLATION DETAIL

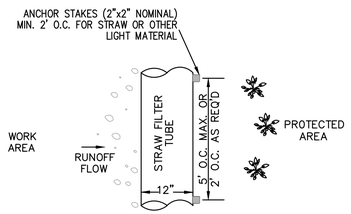


1. SILT SACKS SHALL BE INSTALLED IN ALL CATCH BASINS DURING CONSTRUCTION PERIOD.
2. INSPECTION SHALL BE WEEKLY AND REPAIR/REPLACEMENT MADE PROMPTLY AS NEEDED.
3. SILT SACKS SHALL BE KEPT CLEAN AND FREE OF DEBRIS.

SILTSACK DETAIL
N.T.S.



END VIEW



TOP VIEW

NOTES:
1. TUBES MAY BE FILLED ON SITE OR SHIPPED.
2. ENSURE PROPER LOCATION AT SITE FOR EFFECTIVENESS.
3. TUBES SHALL BE PLACED AND STAKED IN PLACE AS REQUIRED TO ENSURE STABILITY AGAINST WATER FLOWS.
4. TUBES FILLED WITH LIGHT MATERIAL SHALL BE STAKED AT A MAXIMUM OF 2 FEET ON CENTER. FOR HEAVIER MATERIAL, 5 FEET ON CENTER.
5. TUBES SHALL BE TAMPED TO ENSURE GOOD CONTACT WITH SOIL.
6. INSPECT AFTER EACH RAINFALL OR DAILY DURING RAINFALL EVENTS. CORRECT ALL DEFICIENCIES IMMEDIATELY.
7. FAILURE INCLUDES BUT IS NOT LIMITED TO WASHOUT, OVERTOPPING, CLOGGING, AND EROSION. IF OVERTOPPING OR WASHOUT OCCURS, NEW FILTER TUBES WITH ADDITIONAL STAKING OR STRAW MATERIAL SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
8. FILTER TUBES SHALL BE REMOVED ONCE SITE WORK IS COMPLETE, SITE IS STABLE, ADEQUATE GROWTH HAS BEEN ESTABLISHED AND AS DIRECTED BY THE ENGINEER. TUBE FABRIC SHALL BE CUT, REMOVED AND DISPOSED OF OFF–SITE BY THE CONTRACTOR AT NO ADDITIONAL COST.

STRAW FILTER TUBE DETAIL

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

DETAILS IV

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
11/12/2025

SCALE: NOT TO SCALE DATE: NOVEMBER 12, 2025

JOB NO.\FILE NAME: 2507–100%_CD – CIRCLE CT. NOI PLAN SET
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 10 OF 10

Tab: 10-C DETAILS IV Plot Style: GCG-2018.stb Plotted By: Ricky Howe
2507-100%_CD - Circle Ct. NOI Plan Set.dwg Saved: 12/19/2025 12:25 PM Plotted: Dec 22, 2025 10:10:am

SITE PLAN
NOTICE OF INTENT
STORMWATER MANAGEMENT REPORT

for

Circle Court (667-1)
Parking Lot and Walkway Upgrades
North Attleborough Housing Authority

in

North Attleborough, Massachusetts

November 12, 2025

Prepared by
GCG ASSOCIATES, INC.
84 Main Street, Wilmington, MA 01887

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- Application for Site Plan – Form O
- WPA Form 3 – NOTICE OF INTENT

I. PROJECT NARRATIVE

- Project Summary
- Jurisdiction
- Proposed Work
- Massachusetts Stormwater Management Standards
- Checklist for Stormwater Report

II. APPENDICES

- Appendix A: Project Maps
  - Circle Court (667-1), North Attleborough, MA., North Attleborough Housing Authority
    - USGS Site Locus Map
    - FEMA Flood Map Number
      - 25021C0188E & 25021C0169E, effective date July 17, 2012
    - GIS Wetland Map & NHESP Map

- Appendix B: Soil Map & Hydrologic Soil Group (HSG) Classification
  - Web Soil Survey, USDA, Natural Resources Conservation Service

- Appendix C: HydroCAD Report
  - Circle Court Pre- and Post-Development HydroCAD Report
  - Drawdown calculations & Groundwater Mounding Calculations

- Stormwater Standards
  - Checklist for Stormwater Report
    - Standard 8: Construction Period Pollution Prevention Plan
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    - Standard 10: Illicit Discharge Statement

- Appendix D: Project Abutter Information
  - Notification to Abutters
  - Affidavit of Service
  - Certified List of Abutters

- Appendix E: Wetland Field Report
  - Wetland Field Report, 34 Circle Court, North Attleborough, MA., report by Christopher J. Capone, Inc., September 06, 2025.

III REFERENCES

- Parking Lot and Walkway Upgrades, Circle Court (667-1), North Attleborough, Massachusetts, North Attleborough Housing Authority, EOHLC Project # 197161, (10 sheets). Dated: 11-12-2025, By: GCG Associates, Inc.

Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username:	**GCGTONYMA**
Transaction ID:	**1952089**
Document:	**WPA Form 3 - NOI**
Size of File:	**273.28K**
Status of Transaction:	**Submitted**
Date and Time Created:	**12/23/2025:5:43:50 PM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to “Download a Copy” from the Current Submittals page.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 3 - Notice of Intent
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1952089
City/Town:NORTH ATTLEBOROUGH

A.General Information

1. Project Location:

a. Street Address	34 CIRCLE COURT		
b. City/Town	NORTH ATTLEBOROUGH	c. Zip Code	02760
d. Latitude	41.98475N	e. Longitude	71.34271W
f. Map/Plat #	19	g.Parcel/Lot #	220

2. Applicant:

☐ Individual ☑ Organization

a. First Name		b.Last Name			
c. Organization	NORTH ATTLEBOROUGH HOUSING AUTHORITY				
d. Mailing Address	20 SOUTH WASHINGTON STREET				
e. City/Town	NORTH ATTLEBOROUGH	f. State MA		g. Zip Code	02760
h. Phone Number	508-695-5142	i. Fax		j. Email	Paula@NorthAttleboroHousing.Org

3.Property Owner:

☐ more than one owner

a. First Name	PAULA	b. Last Name	MARYVILLE		
c. Organization	NORTH ATTLEBOROUGH HOUSING AUTHORITY				
d. Mailing Address	20 SOUTH WASHINGTON STREET				
e. City/Town	NORTH ATTLEBOROUGH	f.State MA		g. Zip Code	02760
h. Phone Number	508-695-5142	i. Fax		j.Email	Paula@NorthAttleboroHousing.Org

4.Representative:

a. First Name	MICHAEL		b. Last Name	CARTER	
c. Organization	GCG ASSOCIATES, INC.				
d. Mailing Address	84 MAIN STREET				
e. City/Town	WILMINGTON	f. State	MA	g. Zip Code	01887
h.Phone Number	978-657-9714	i.Fax		j.Email	mike.carter@gcgassociates.net

5.Total WPA Fee Paid (Automatically inserted from NOI Wetland Fee Transmittal Form):

a.Total Fee Paid	0.00	b.State Fee Paid	0.00	c.City/Town Fee Paid	0.00

6.General Project Description:

RECLAIM AND REPAVE PARKING LOT AND DRIVEWAY IN ELDERLY AND DISABLED PUBLIC HOUSING PROJECT, CIRCLE COURT. EXPAND 10 NEW PARKING SPACES TO A TOTAL OF 89 SPACE TO SERVE EXISTING 104 DWELLING UNITS, WIDEN AND EXTEND SITE SIDEWALK/WALKWAY TO COMPLY WITH THE CURRENT ADA/AAB REQUIREMENTS, AND ASSOCIATED STORMWATER AND SITE IMPROVEMENTS.

7a.Project Type:

1. ☐ Single Family Home	2. ☐ Residential Subdivision
3. ☐ Limited Project Driveway Crossing	4. ☐ Commercial/Industrial
5. ☐ Dock/Pier	6. ☐ Utilities
7. ☐ Coastal Engineering Structure	8. ☐ Agriculture (eg., cranberries, forestry)
9. ☐ Transportation	10. ☑ Other

7b.Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. ☐ Yes ☑ No If yes, describe which limited project applies to this project:
2. Limited Project

8.Property recorded at the Registry of Deeds for:

a.County:	b.Certificate:	c.Book:	d.Page:
NORTHERN BRISTOL		20	0172

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

1.Buffer Zone & Resource Area Impacts (temporary & permanent):

☑ This is a Buffer Zone only project - Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.

2.Inland Resource Areas: (See 310 CMR 10.54 - 10.58, if not applicable, go to Section B.3. Coastal Resource Areas)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a.☐ Bank	1. linear feet	2. linear feet
b.☐ Bordering Vegetated Wetland	1. square feet	2. square feet
c.☐ Land under Waterbodies and Waterways	1. Square feet	2. square feet
	3. cubic yards dredged	
d.☐ Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e.☐ Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced

f.☐ Riverfront Area

1. Name of Waterway (if any)

2. Width of Riverfront Area (check one)
☐ 25 ft. - Designated Densely Developed Areas only
☐ 100 ft. - New agricultural projects only
☐ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project
square feet

4. Proposed Alteration of the Riverfront Area:

a. total square feet b. square feet within 100 ft. c. square feet between 100 ft.

and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI? ☐ Yes ☐ No

6. Was the lot where the activity is proposed created prior to August 1, 1996? ☐ Yes ☐ No

3.Coastal Resource Areas: (See 310 CMR 10.25 - 10.35)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☐ Designated Port Areas	Indicate size under	Land under the ocean below,
b. ☐ Land Under the Ocean	1. square feet 2. cubic yards dredged	
c. ☐ Barrier Beaches	Indicate size under Coastal Beaches and/or Coatstal Dunes, below	
d. ☐ Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. ☐ Coastal Dunes	1. square feet	2. cubic yards dune nourishment
f. ☐ Coastal Banks	1. linear feet	
g. ☐ Rocky Intertidal Shores	1. square feet	
h. ☐ Salt Marshes	1. square feet	2. sq ft restoration, rehab, crea.
i. ☐ Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. ☐ Land Containing Shellfish	1. square feet	
k. ☐ Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. ☐ Land Subject to Coastal Storm Flowage	1. square feet	

4.Restoration/Enhancement

☐ Restoration/Replacement

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please entered the additional amount here.

a. square feet of BVW b. square feet of Salt Marsh

5.Projects Involves Stream Crossings

☐ Project Involves Streams Crossings

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.

a. number of new stream crossings

b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage of Endangered Species program (NHESP)?

a. ☐ Yes ☑ No

If yes, include proof of mailing or hand delivery of NOI to:
Natural Heritage and Endangered Species
Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

b. Date of map:FROM MAP VIEWER

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18)....

c. Submit Supplemental Information for Endangered Species Review * (Check boxes as they apply)

1.☐ Percentage/acreage of property to be altered:

(a) within Wetland Resource Area percentage/acreage

(b) outside Resource Area percentage/acreage

2.☐ Assessor's Map or right-of-way plan of site

3.☐ Project plans for entire project site, including wetland resource areas and areas outside of wetland jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

a.☐ Project description (including description of impacts outside of wetland resource area & buffer zone)

b.☐ Photographs representative of the site

c.☐ MESA filing fee (fee information available at: http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/mesa-fee-schedule.html)
Make check payable to "Natural Heritage & Endangered Species Fund" and **mail to NHESP** at above address

*Projects altering **10 or more acres** of land, also submit:*

d.☐ Vegetation cover type map of site

e.☐ Project plans showing Priority & Estimated Habitat boundaries

d. OR Check One of the following

1.☐ Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/eea/agencies/dfg/dfw/laws-regulations/cmr/321-cmr-1000-massachusetts-endangered-species-act.html#10.14; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2.☐ Separate MESA review ongoing.

a. NHESP Tracking Number

b. Date submitted to NHESP

3. ☐ Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review...

2. For coastal projects only, is any portion of the proposed project located below the mean high waterline or in a fish run?
a. ☑ Not applicable - project is in inland resource area only
b. ☐ Yes ☐ No

If yes, include proof of mailing or hand delivery of NOI to either:

South Shore - Cohasset to Rhode Island, and the Cape & Islands:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 S. Rodney French Blvd
New Bedford, MA 02744

North Shore - Hull to New Hampshire:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930

If yes, it may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional office.

3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

a. ☐ Yes ☑ No

If yes, provide name of ACEC (see instructions to WPA Form 3 or DEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC Name

4. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
a. ☐ Yes ☑ No

5. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L.c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L.c. 130, § 105)?
a. ☐ Yes ☑ No

6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
a. ☑ Yes, Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. ☐ Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol.2, Chapter 3)
2. ☑ A portion of the site constitutes redevelopment
3. ☐ Proprietary BMPs are included in the Stormwater Management System

b. ☐ No, Explain why the project is exempt:
1. ☐ Single Family Home

2. ☐ Emergency Road Repair

3. ☐ Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department by regular mail delivery.

1. ☐ USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. ☐ Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
3. ☐ Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s). Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
4. ☐ List the titles and dates for all plans and other materials submitted with this NOI.

a. Plan Title:	b. Plan Prepared By:	c. Plan Signed/Stamped By:	c. Revised Final Date:	e. Scale:
PARKING LOT & WALKWAY UPGRADES, CIRCLE COURT (667-1), NORTH ATTLEBOROUGH, MASSACHUSETTS, NORTH ATTLEBOROUGH HOUSING AUTHORITY, EOHLC PROJECT # 197161.	MICHAEL J. CARTER, P.E., P.L.S.		November 12, 2025 /	1"=30'

5. ☐ If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. ☑ Attach NOI Wetland Fee Transmittal Form.
9. ☑ Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number	3. Check date
4. State Check Number	5. Check date
6. Payer name on check: First Name	7. Payer name on check: Last Name

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

Paula Mayville 1. Signature of Applicant	12/23/2025 2. Date
Paula Mayville 3. Signature of Property Owner(if different)	12/23/2025 4. Date
Michael Carter 5. Signature of Representative (if any)	12/23/2025 6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in Section C, Items 1-3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 3 - Notice of Wetland FeeTransmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1952089
City/Town:NORTH ATTLEBOROUGH

A. Applicant Information

1. Applicant:

a. First Name		b.Last Name		
c. Organization	NORTH ATTLEBOROUGH HOUSING AUTHORITY			
d. Mailing Address	20 SOUTH WASHINGTON STREET			
e. City/Town	NORTH ATTLEBOROUGH	f. State MA	g. Zip Code	02760
h. Phone Number	5086955142	i. Fax	j. Email	Paula@NorthAttleboroHousing.Org

2.Property Owner:(if different)

a. First Name	PAULA	b. Last Name	MARYVILLE	
c. Organization	NORTH ATTLEBOROUGH HOUSING AUTHORITY			
d. Mailing Address	20 SOUTH WASHINGTON STREET			
e. City/Town	NORTH ATTLEBOROUGH	f.State MA	g. Zip Code	02760
h. Phone Number	5086955142	i. Fax	j.Email	Paula@NorthAttleboroHousing.Org

3. Project Location:

a. Street Address 34 CIRCLE COURT b. City/Town NORTH ATTLEBOROUGH

Are you exempted from Fee? ☐ (YOU HAVE SELECTED 'YES')

Note: Fee will be exempted if you are one of the following:

- City/Town/County/District
- Municipal Housing Authority
- Indian Tribe Housing Authority
- MBTA

State agencies are only exempt if the fee is less than $100

B. Fees

Activity Type	Activity Number	Activity Fee	RF Multiplier	Sub Total

City/Town share of filling fee	State share of filing fee	Total Project Fee
$0.00	$0.00	$0.00

Site Plan & Wetland WPA – Form 3 – Notice of Intent
Parking Lot & Walkway Upgrades, Circle Court (667–1), Map 19 - Lot 220,
North Attleborough Housing Authority (NAHA), North Attleborough, Massachusetts

Date: October 30, 2025

Project Narrative:

Project Summary: This existing North Attleborough Housing Authority's Chapter 667 Housing for Elderly and Disabled facility at Circle Court requires replacement of the failing (potholes, settlement, tripping Hazard) paved driveway and parking area due to aging. The existing walkway/sidewalk does not meet the current ADA/AAB standards and requires upgrade. The project proposed to reclaim and repave the parking lot and driveway and widen the walkways to 5-foot minimum. The Circle court Housing Project was completed in 1967 prior to the North Attleborough Zoning Bylaw, Chapter 290, adopted in 1974. The development consists of 13 low-rise, elderly, 2-story buildings on a site of approximately 4.66 acres (Assessors record, Map 19 – Lot 220). There is a total of 104 dwelling units and a combined residential floor area of over 70,000 square feet. There is also a community center on the site. The site is serviced by public water, sewer, and underground utilities.

The site soil consists of "(602) - Urban land" as identified by the NRCS Web Soil Survey report, Hydrologic Soil Group (HSG) was not rated, the site is surrounded by Paxton sandy loam soil (HSG 'C"), and based on GCG's experiences with State funded housing authority projects, the site's subbase should be equipped with gravel borrow base or relatively well drain material over sandy loam material (surrounding soil). Therefore, the HSG 'C' was used in the drainage model to match the surrounding soil group.

There is no wetland resource area within the property. However, a bordering vegetated wetland (BVW) was delineated by Christopher J. Capone on 9/29/2025 along the northern property boundary in Parcel 21-639. Where an existing 30 feet wide drainage easement was granted to accommodate the existing 15" RCP site drainage outlet pipe discharge onto the wetland resource area. Hence, a wetland Notice of Intent is being filed. The site does not fall within the FEMA National Flood Hazard Zone AE (El. 252), per FIRM Panel 25005C0102G, effective date 7-16-2015. (Site contours are above elevation 257 along the northern property boundary); There is no estimated habitats of rare species nor priority habitats of rare wildlife in the vicinity according to the Massachusetts Natural Heritage & Endangered Species program (NHESP). The property does not contain any certified vernal pools nor does it fall within an A.C.E.C. or Zone II.

There are currently 79 parking spaces on-site. (69 standard parking spaces (0.66 space per dwelling unit) and 10 parallel visitor parking spaces along Circle Court, with no designated handicap accessible spaces). This project has included an expansion of 10 new parking spaces to a total of 89 parking spaces (an improvement of 0.76 spaces per dwelling unit, including 5 ADA/AAB accessible spaces), with the existing 10 visitor parking spaces to remain. The proposed 10 new parking spaces increased the parking capacity by 12.7% and increased approximately 5,500 s.f. of the impervious pavement, which exceeded the Zoning By-Laws Section 290-26. B.(1)(d)'s threshold. Hence, a Level 2 - Site Plan (Form O) application is being filed with the Planning Board concurrently.

The parking expansion created approximately 5,500 s.f. of additional pavement impervious area, a new surface infiltration chambers system was proposed to control the post-development runoff rates to below the pre-development conditions. The infiltration system was also sized to retain the 1" times the new impervious pavement runoff water quality volume to provide 90% TSS removal and nutrient removal treatments. The remaining pavement replacement is considered as redevelopment project under Massachusetts Stormwater Handbook (MSH), Standard 7, and subjects to the Maximum Extent Practicable (MEP) requirements.

The existing walkways are 3 feet to 4 feet wide, and to be upgraded to 5-foot minimum width to meet the AAD/AAB requirements. Additional walkways are added to connect all buildings access. The new walkway is surrounded by lawn areas and is considered disconnected impervious area. The entire site's drainage

system will be inspected and operated under one long-term Operation and Maintenance (O&M) plan as required by MSH Standard 7.

Jurisdiction:

The parking expansion exceeded the10% of the current parking lot capacity and 5,000 s.f. threshold, (Section 290-26(2)(a)[2]). A Level 2, Site plan review is required and being filed.

The site is within the 100-feet buffer of the BVW delineated in Parcel 21-639, with an existing drainage easement to connect drainage outfall to the wetland resource area. This project was built in 1967, the drainage system discharged directly to the wetland resource area was installed prior to the MGL 131, Section 40 Wetland Protection Act, which become effective in 1972. Due to the proximity of the wetland resource area, a Wetland Notice of Intend is being submitted concurrently.

Town of North Attleborough, Chapter 246 – Stormwater Management and Land Disturbance, Article III – Stormwater Management and Land Disturbance, this project requires a Land Disturbance Permit. This project is filing a Wetland Notice of Intent with the Conservation Commission and a Level 2 - Site Plan Review with the Planning Board. Therefore, GCG hereby requests the Exemptions courses for the Land Disturbance Permit with Section 246-16 B. (5) and (6).

Proposed Conditions:

This is a “re-development project” per MSH (Massachusetts Stormwater Handbook) Standard #7 – Remedial projects specifically designed to provide improved stormwater management. The proposed improvements are intended to meet the stormwater management requirements to the maximum extent practicable as required by MSH for the redevelopment project. The site is densely developed with underground utilities; there are not sufficient rooms between buildings suitable for improving groundwater recharge. (Stormwater Management and Land Disturbance Regulations - Section 8 D. Redevelopment Project to retain 0.5 inch of runoff requirements). In addition, this is a non-profit public housing project with a limited budget. Retrofits to meet the current stormwater requirements are unfeasible. The site’s safety standards and accessibility are being first prioritized as an existing elderly and disabled housing facility. The impervious area created by the new parking spaces is considered new development and is being treated with subsurface infiltration chambers system. See MSH Standard 4 below

Stormwater Management Requirements. (For Redevelopment Project)

Standard #1 - no new outfall untreated. This project does not create any new outfall.

Standards #2 – no increase of peak runoff, (maximum extent practicable for re-development project). This project will retain and infiltrate the (1”) Water Quality Volume from the new impervious surface. Therefore, there was no increase in post-development peak runoff in comparison with the pre-development conditions for all four analysis storm events. See pre-development and post-development runoff rate and volume comparison table below:

Discharge Point	2-year (3.39 in.)		10-year (5.17 in.)		25-year (6.28 in.)		100-year (7.99 in.)	
	Pre	Post	Pre	Post	Pre	Post	Pre	Post
15" RCP Outlet pipe **Peak Rate**	0.17 cfs	0.15 cfs	0.37 cfs	0.33 cfs	0.51 cfs	0.42 cfs	0.73 cfs	0.72 cfs
Runoff Volume	0.012 af	0.014 af	0.026 af	0.032 af	0.036 af	0.044 af	0.052 af	0.067 af

Standard #3 – Groundwater Recharge, (maximum extent practicable for re-development project). The proposed infiltration chambers system provided 493+/- cubic feet of static infiltration volume (below the 256.50 Outlet Control Structure 4" orifice invert) for groundwater recharge, which exceeded the require 1" WQV for the new impervious 5,500+/- s.f. pavement, 458 c.f. required. Therefore, the project meets Standard #3 requirements. No re-development groundwater recharge provided, due to infiltration system setbacks, shallow ESHGW, and limited budget (non-profit elderly and disabled housing facility) restrains.

Drawdown calculations: Storage Volume = 1,016 c.f., infiltration rate (0.27 in/hr. Rawls HSG 'C', silt loam), infiltration bed surface area = 21'W x 33.5'L = 703.5 s.f.

Exfiltration = 703.5 s.f x (0.27in/hr / 12 in/ft) = 15.8 c.f./hr; 1,016 c.f./15.8 c.f./hr = 64.19 hours less than 72 hours. (OK)

Standard #4 – TSS removal - as a minimum, pre-treatment should be provided for redevelopment project. The proposed infiltration trench with sediment forebay or WQU pretreatments captured the 1" WQV. And based on the EPA's BMP Performance Curve, the proposed infiltration trench treatment exceeded the 80% TSS requirements.

The proposed infiltration chambers system is sized to retain the required 1" Water Quality Volume (WQV) from the new impervious area for groundwater recharge and treatments, a mini 2 feet sump precast concrete curb inlet is proposed to provide surface runoff pre-treatment, (due to the shallow estimated seasonal high groundwater, existing utilities, buildings location and finish floor elevations, a full size concrete structure, which requires a standard concrete top slab would not clear the elevation restrains.) proposed WQV = 1" times the new impervious surface area 5,500+/- SF = 458 c.f. volume required. The proposed infiltration chambers system BMP consist of 18 - Cultec R-150XLHD chamber units embedded within a 21'W x 33.5'L x 2.54'H crushed stone bed, the static storge volume above the 4" orifice outlet invert at elevation 256.50 will provide 493 c.f. of runoff storage volume for infiltration, which will capture 90% of TSS and 90% of TP removal from the stormwater runoff, per US-EPA – Region 1's BMP Performance Curve for Infiltration Trench with High Density Residential use with soil infiltration rate at 0.27 in/hr (Rawls Rate, silt loam, HSG 'C' soil). attached. (Source: Stormwater Best Management Practices (BMP) Performance Analysis, prepared for: United States Environmental Protection Agency – Region 1, by: Tetra Tech, Inc., dated December 2008, last revised March 2010.)

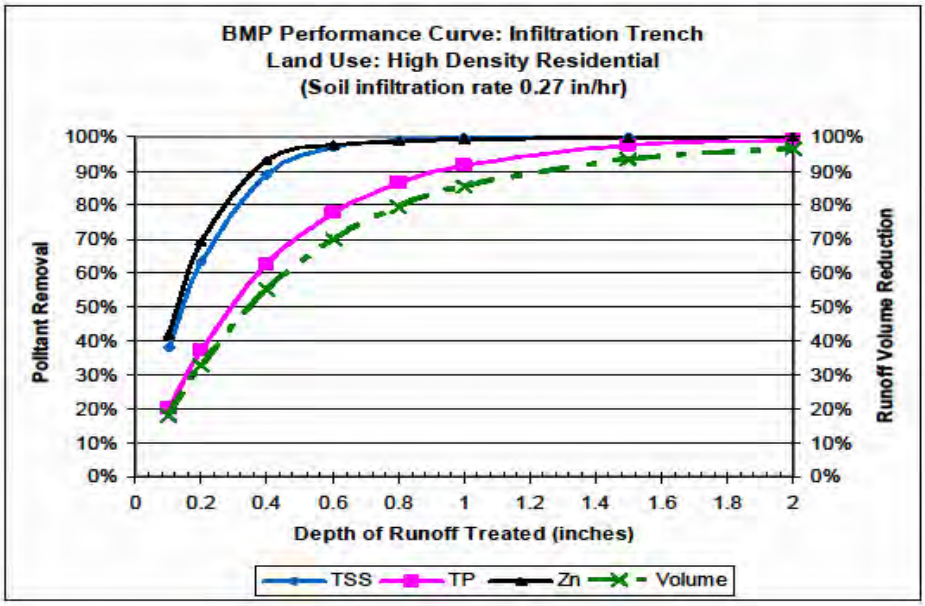


Figure 1: EPA BMP Performance Curve for Infiltration Trench for High Density Residential use.

Standard #5 – LUHPPL. Not applicable.

Standard #6 - Zone II. Not applicable.

Standard #7 – This project is a redevelopment project and requires meeting the stormwater management standards to the maximum extent practicable. New parking lot pavement surface runoff is being treated through subsurface infiltration chambers BMP and meeting the MSH standards to the full extent.

Standard #8 - Construction period O&M plan is included in the NOI package, (copy attached).

Standard #9 - Long term O&M Plan is included in the NOI package, (copy attached).

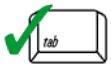
Standard #10 – No Illicit discharge – a Statement is included in the NOI package, (copy attached).

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

A. Introduction

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.[1] This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8[2]
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

[1] The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

[2] For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

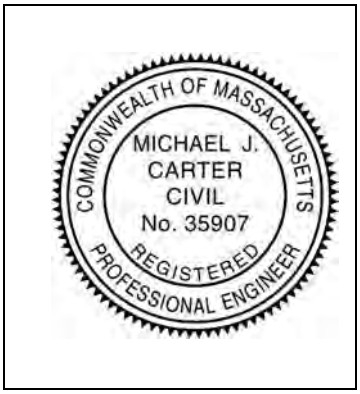
Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



Michael J. Carter, P.E., P.L.S. 10/30/2025
Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

☐ New development

☐ Redevelopment

☒ Mix of New Development and Redevelopment

Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

☒ No disturbance to any Wetland Resource Areas

☐ Site Design Practices (e.g. clustered development, reduced frontage setbacks)

☐ Reduced Impervious Area (Redevelopment Only)

☒ Minimizing disturbance to existing trees and shrubs

☐ LID Site Design Credit Requested:

- ☐ Credit 1
- ☐ Credit 2
- ☐ Credit 3

☐ Use of "country drainage" versus curb and gutter conveyance and pipe

☐ Bioretention Cells (includes Rain Gardens)

☐ Constructed Stormwater Wetlands (includes Gravel Wetlands designs)

☐ Treebox Filter

☐ Water Quality Swale

☐ Grass Channel

☐ Green Roof

☒ Other (describe): Subsurface Infiltration Chambers

Standard 1: No New Untreated Discharges

☒ No new untreated discharges

☐ Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth

☐ Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.

Checklist for Stormwater Report

Checklist (continued)

Standard 2: Peak Rate Attenuation

☐ Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.

☐ Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.

☐ Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

☒ Soil Analysis provided.

☒ Required Recharge Volume calculation provided.

☐ Required Recharge volume reduced through use of the LID site Design Credits.

☒ Sizing the infiltration, BMPs is based on the following method: Check the method used.

☒ Static ☐ Simple Dynamic ☐ Dynamic Field[1]

☐ Runoff from all impervious areas at the site discharging to the infiltration BMP.

☐ Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.

☒ Recharge BMPs have been sized to infiltrate the Required Recharge Volume.

☒ Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:

☐ Site is comprised solely of C and D soils and/or bedrock at the land surface

☐ M.G.L. c. 21E sites pursuant to 310 CMR 40.0000

☐ Solid Waste Landfill pursuant to 310 CMR 19.000

☒ Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.

☒ Calculations showing that the infiltration BMPs will drain in 72 hours are provided.

☐ Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

[1] 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.

Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

☒ The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.

☐ Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
- Provisions for storing materials and waste products inside or under cover;
- Vehicle washing controls;
- Requirements for routine inspections and maintenance of stormwater BMPs;
- Spill prevention and response plans;
- Provisions for maintenance of lawns, gardens, and other landscaped areas;
- Requirements for storage and use of fertilizers, herbicides, and pesticides;
- Pet waste management provisions;
- Provisions for operation and management of septic systems;
- Provisions for solid waste management;
- Snow disposal and plowing plans relative to Wetland Resource Areas;
- Winter Road Salt and/or Sand Use and Storage restrictions;
- Street sweeping schedules;
- Provisions for prevention of illicit discharges to the stormwater management system;
- Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
- Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
- List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.

☒ A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.

☐ Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:

- ☐ is within the Zone II or Interim Wellhead Protection Area
- ☐ is near or to other critical areas
- ☐ is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
- ☐ involves runoff from land uses with higher potential pollutant loads.

☐ The Required Water Quality Volume is reduced through use of the LID site Design Credits.

☒ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.

Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

☒ The BMP is sized (and calculations provided) based on:

- ☒ The ½" or 1" Water Quality Volume or
- ☐ The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.

☐ The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.

☐ A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

☐ The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.

☐ The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted ***prior to*** the discharge of stormwater to the post-construction stormwater BMPs.

☐ The NPDES Multi-Sector General Permit does ***not*** cover the land use.

☐ LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.

☐ All exposure has been eliminated.

☐ All exposure has ***not*** been eliminated and all BMPs selected are on MassDEP LUHPPL list.

☐ The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

☐ The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.

☐ Critical areas and BMPs are identified in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

☒ The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:

- ☐ Limited Project
- ☐ Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
- ☐ Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
- ☐ Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
- ☐ Bike Path and/or Foot Path
- ☐ Redevelopment Project
- ☒ Redevelopment portion of mix of new and redevelopment.

☒ Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.

☐ The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
- Construction Period Operation and Maintenance Plan;
- Names of Persons or Entity Responsible for Plan Compliance;
- Construction Period Pollution Prevention Measures;
- Erosion and Sedimentation Control Plan Drawings;
- Detail drawings and specifications for erosion control BMPs, including sizing calculations;
- Vegetation Planning;
- Site Development Plan;
- Construction Sequencing Plan;
- Sequencing of Erosion and Sedimentation Controls;
- Operation and Maintenance of Erosion and Sedimentation Controls;
- Inspection Schedule;
- Maintenance Schedule;
- Inspection and Maintenance Log Form.

☒ A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

☐ The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has ***not*** been included in the Stormwater Report but will be submitted ***before*** land disturbance begins.

☒ The project is ***not*** covered by a NPDES Construction General Permit.

☐ The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.

☐ The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

☒ The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:

- ☒ Name of the stormwater management system owners;
- ☒ Party responsible for operation and maintenance;
- ☒ Schedule for implementation of routine and non-routine maintenance tasks;
- ☐ Plan showing the location of all stormwater BMPs maintenance access areas;
- ☐ Description and delineation of public safety features;
- ☐ Estimated operation and maintenance budget; and
- ☐ Operation and Maintenance Log Form.

☐ The responsible party is ***not*** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:

- ☐ A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
- ☐ A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges

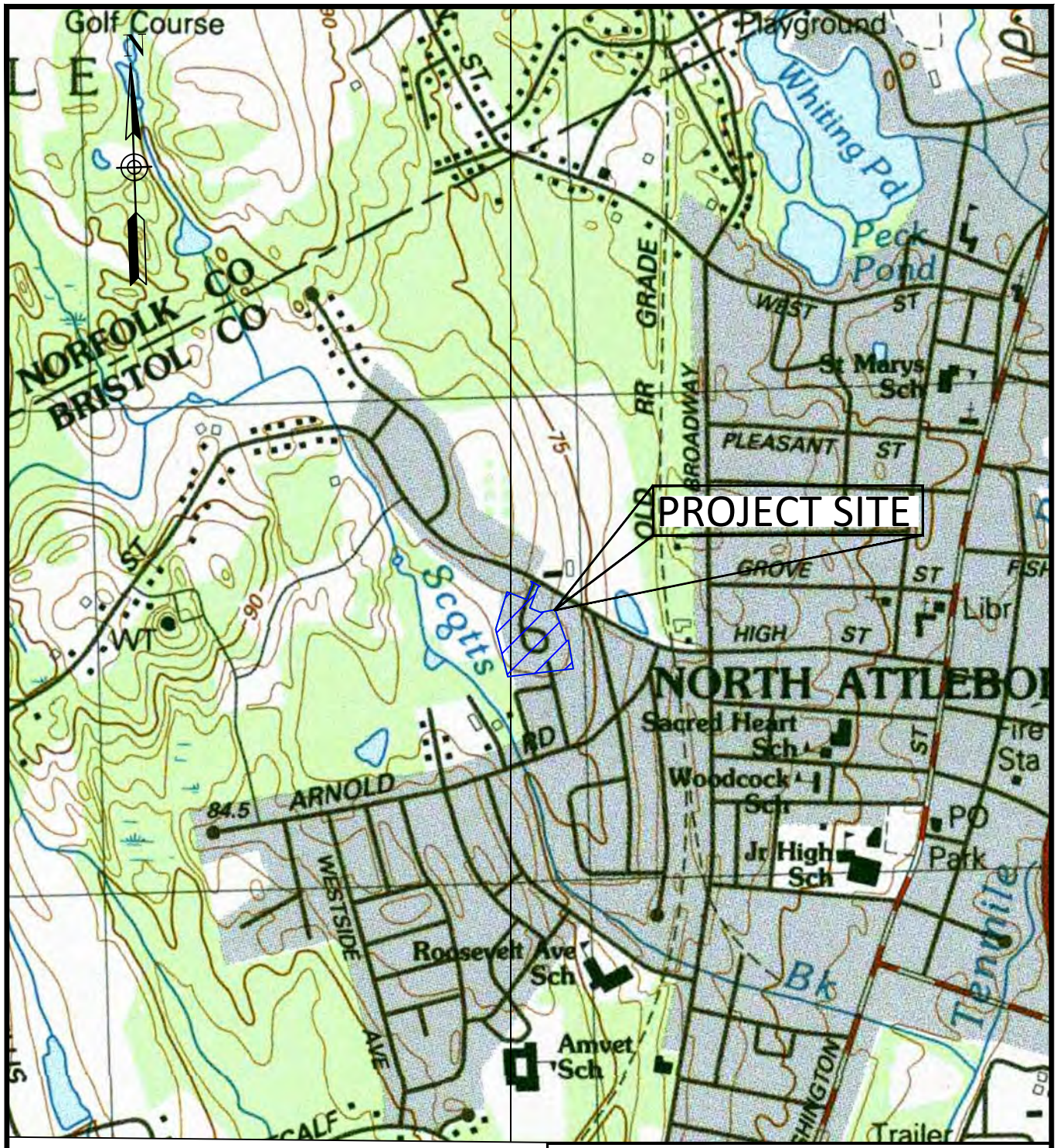
☒ The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;

☒ An Illicit Discharge Compliance Statement is attached;

☐ NO Illicit Discharge Compliance Statement is attached but will be submitted ***prior to*** the discharge of any stormwater to post-construction BMPs.

APPENDIX A:

Project Maps



CIRCLE COURT (NAHA)
NORTH ATTLEBOROUGH, MA.
USGS LOCUS MAP

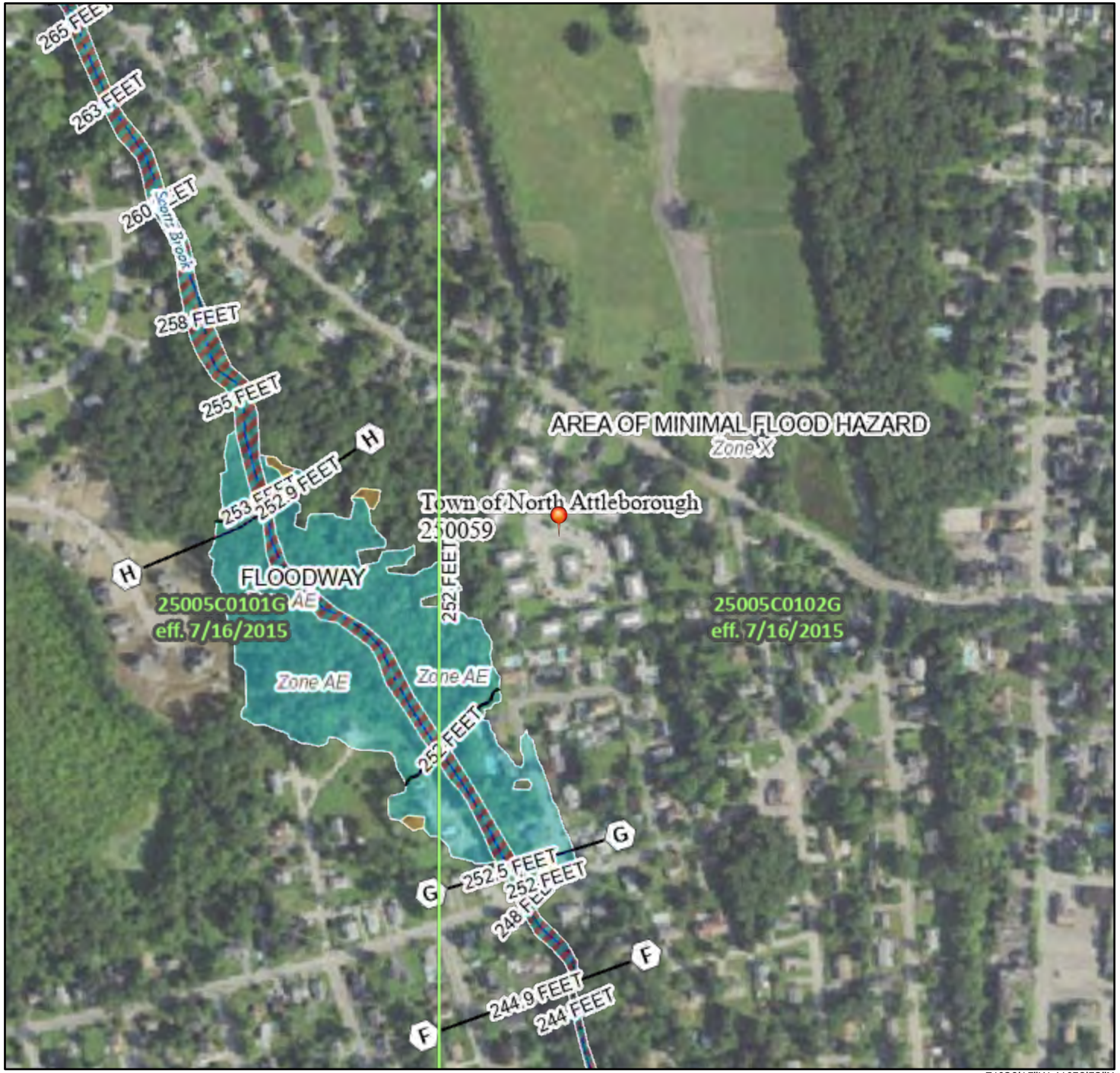
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE:1"=1000'	DATE:10/02/2025	
JOB NO.\FILE NAME: 2507-USGS.DWG	DESIGNED BY: M.J.C. DRAWN BY: M.J.C. CHECKED BY: M.J.C.	PLAN NO. 1 OF 1

National Flood Hazard Layer FIRMette

FEMA

71°20'52"W 41°59'19"N



71°20'15"W 41°58'52"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

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
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

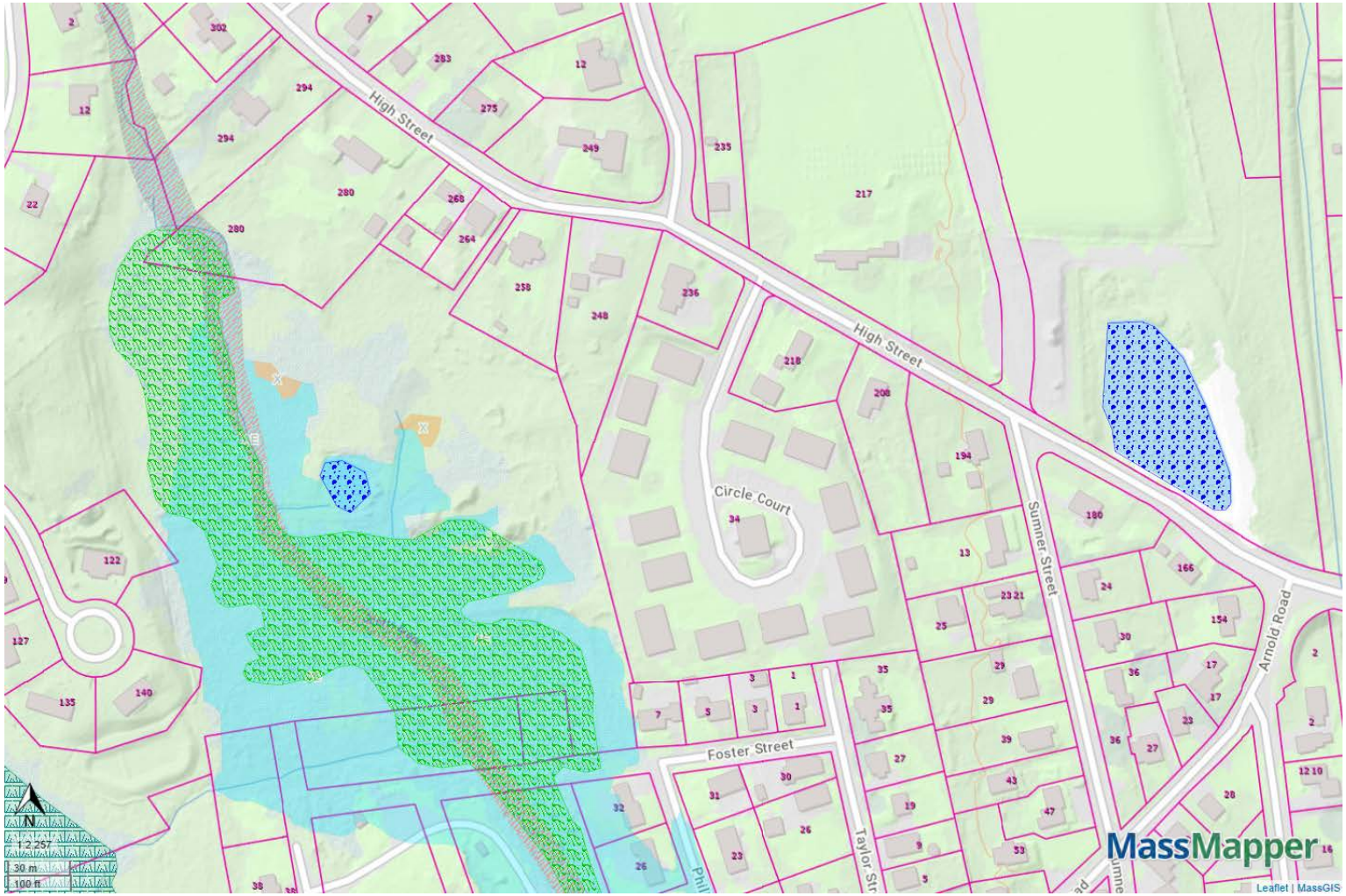
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 10/2/2025 at 12:51 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.

Circle Court, N. Attleborough, MA



DEP Wetlands Detailed With Outlines

- Barrier Beach System
- Barrier Beach-Deep Marsh
- Barrier Beach-Wooded Swamp Mixed Trees
- Barrier Beach-Coastal Beach
- Barrier Beach-Coastal Dune
- Barrier Beach-Marsh
- Barrier Beach-Salt Marsh
- Barrier Beach-Shrub Swamp
- Barrier Beach-Wooded Swamp Coniferous
- Barrier Beach-Wooded Swamp Deciduous
- Bog
- Coastal Bank Bluff or Sea Cliff
- Coastal Beach
- Coastal Dune
- Cranberry Bog
- Deep Marsh
- Barrier Beach-Open Water
- Open Water
- Rocky Intertidal Shore
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Tidal Flat
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

FEMA National Flood Hazard Layer Polygons

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area Not Included

NHESP Certified Vernal Pools

NHESP Priority Habitats of Rare Species

NHESP Estimated Habitats of Rare Wildlife

Zone IIs

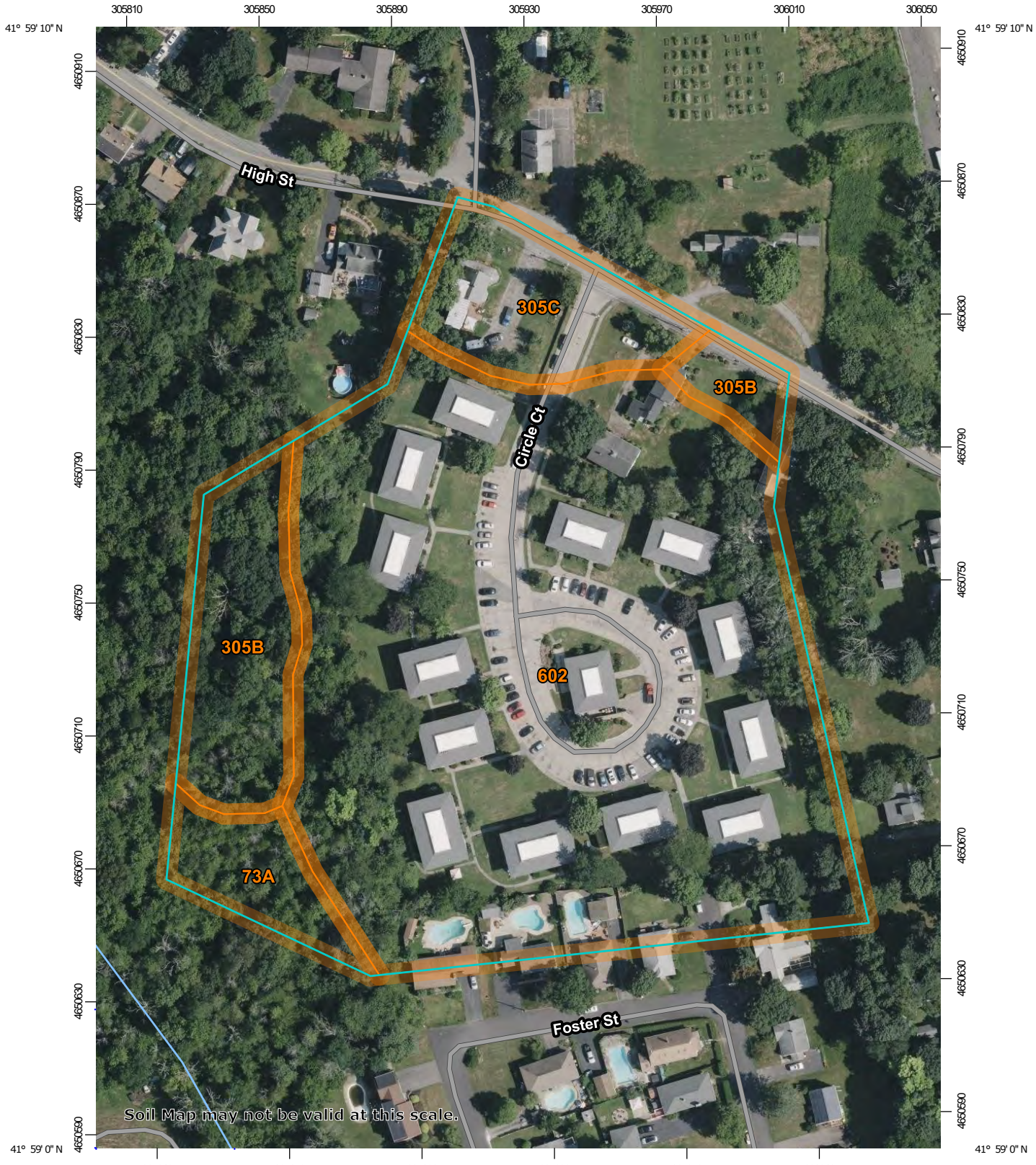
Property Tax Parcels

Printed Oct 2, 2025

APPENDIX B:

Soil Map & Hydrologic Soil Group (HSG) Classification

Soil Map—Bristol County, Massachusetts, Northern Part
(Circle Court, NAHA, N. Attleborough, MA)



Map Scale: 1:1,640 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

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 1:20,000.

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: Bristol County, Massachusetts, Northern Part
Survey Area Data: Version 18, Sep 5, 2025

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

Date(s) aerial images were photographed: Mar 1, 2024—Jul 1, 2024

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
73A	Whitman fine sandy loam, 0 to 3 percent slopes, extremely stony	0.4	4.5%
305B	Paxton fine sandy loam, 3 to 8 percent slopes	1.0	11.4%
305C	Paxton fine sandy loam, 8 to 15 percent slopes	0.7	8.5%
602	Urban land	6.5	75.6%
Totals for Area of Interest		**8.6**	**100.0%**

Hydrologic Soil Group—Bristol County, Massachusetts, Northern Part
(Circle Court, NAHA, N. Attleborough, MA)



Map Scale: 1:1,640 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

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 1:20,000.

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.

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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.

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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
73A	Whitman fine sandy loam, 0 to 3 percent slopes, extremely stony	D	0.4	4.5%
305B	Paxton fine sandy loam, 3 to 8 percent slopes	C	1.0	11.4%
305C	Paxton fine sandy loam, 8 to 15 percent slopes	C	0.7	8.5%
602	Urban land		6.5	75.6%
Totals for Area of Interest			**8.6**	**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

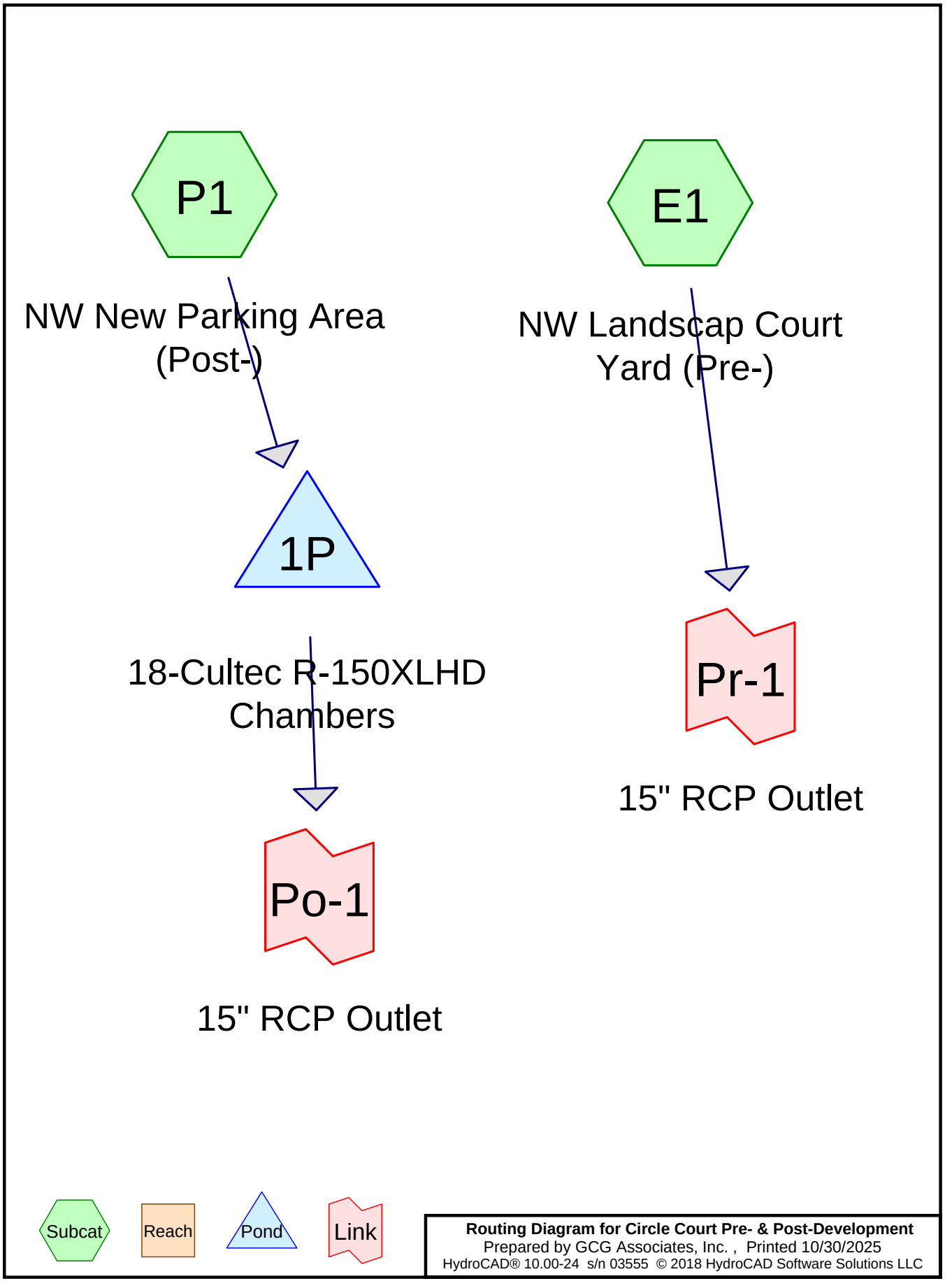
Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

APPENDIX C:

HydroCAD Report



Routing Diagram for Circle Court Pre- & Post-Development
Prepared by GCG Associates, Inc. , Printed 10/30/2025
HydroCAD® 10.00-24 s/n 03555 © 2018 HydroCAD Software Solutions LLC

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.126	74	>75% Grass cover, Good, HSG C (E1)
0.126	98	Paved roads w/curbs & sewers, HSG C (P1)

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.253	HSG C	E1, P1
0.000	HSG D	
0.000	Other	

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.126	0.000	0.000	0.126	>75% Grass cover, Good	E1
0.000	0.000	0.126	0.000	0.000	0.126	Paved roads w/curbs & sewers	P1

Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment E1: NW Landscap Court Yard Runoff Area=5,500 sf 0.00% Impervious Runoff Depth=1.16"
Tc=6.0 min CN=74 Runoff=0.17 cfs 0.012 af

Subcatchment P1: NW New Parking Area Runoff Area=5,500 sf 100.00% Impervious Runoff Depth=3.16"
Tc=6.0 min CN=98 Runoff=0.42 cfs 0.033 af

Pond 1P: 18-Cultec R-150XLHD Chambers Peak Elev=256.80' Storage=644 cf Inflow=0.42 cfs 0.033 af
Discarded=0.00 cfs 0.010 af Primary=0.15 cfs 0.014 af Outflow=0.16 cfs 0.024 af

Link Po-1: 15" RCP Outlet Inflow=0.15 cfs 0.014 af
Primary=0.15 cfs 0.014 af

Link Pr-1: 15" RCP Outlet Inflow=0.17 cfs 0.012 af
Primary=0.17 cfs 0.012 af

Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment E1: NW Landscap Court Yard Runoff Area=5,500 sf 0.00% Impervious Runoff Depth=2.50"
Tc=6.0 min CN=74 Runoff=0.37 cfs 0.026 af

Subcatchment P1: NW New Parking Area Runoff Area=5,500 sf 100.00% Impervious Runoff Depth=4.93"
Tc=6.0 min CN=98 Runoff=0.64 cfs 0.052 af

Pond 1P: 18-Cultec R-150XLHD Chambers Peak Elev=257.29' Storage=844 cf Inflow=0.64 cfs 0.052 af
Discarded=0.00 cfs 0.010 af Primary=0.33 cfs 0.032 af Outflow=0.34 cfs 0.042 af

Link Po-1: 15" RCP Outlet Inflow=0.33 cfs 0.032 af
Primary=0.33 cfs 0.032 af

Link Pr-1: 15" RCP Outlet Inflow=0.37 cfs 0.026 af
Primary=0.37 cfs 0.026 af

Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment E1: NW Landscap Court Yard Runoff Area=5,500 sf 0.00% Impervious Runoff Depth=3.42"
Tc=6.0 min CN=74 Runoff=0.51 cfs 0.036 af

Subcatchment P1: NW New Parking Area Runoff Area=5,500 sf 100.00% Impervious Runoff Depth=6.04"
Tc=6.0 min CN=98 Runoff=0.78 cfs 0.064 af

Pond 1P: 18-Cultec R-150XLHD Chambers Peak Elev=257.61' Storage=937 cf Inflow=0.78 cfs 0.064 af
Discarded=0.00 cfs 0.010 af Primary=0.42 cfs 0.044 af Outflow=0.42 cfs 0.054 af

Link Po-1: 15" RCP Outlet Inflow=0.42 cfs 0.044 af
Primary=0.42 cfs 0.044 af

Link Pr-1: 15" RCP Outlet Inflow=0.51 cfs 0.036 af
Primary=0.51 cfs 0.036 af

Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment E1: NW Landscap Court Yard Runoff Area=5,500 sf 0.00% Impervious Runoff Depth=4.92"
Tc=6.0 min CN=74 Runoff=0.73 cfs 0.052 af

Subcatchment P1: NW New Parking Area Runoff Area=5,500 sf 100.00% Impervious Runoff Depth=7.75"
Tc=6.0 min CN=98 Runoff=0.99 cfs 0.082 af

Pond 1P: 18-Cultec R-150XLHD Chambers Peak Elev=257.87' Storage=1,010 cf Inflow=0.99 cfs 0.082 af
Discarded=0.00 cfs 0.011 af Primary=0.72 cfs 0.061 af Outflow=0.73 cfs 0.072 af

Link Po-1: 15" RCP Outlet Inflow=0.72 cfs 0.061 af
Primary=0.72 cfs 0.061 af

Link Pr-1: 15" RCP Outlet Inflow=0.73 cfs 0.052 af
Primary=0.73 cfs 0.052 af

Summary for Subcatchment E1: NW Landscap Court Yard (Pre-)

Runoff = 0.73 cfs @ 12.09 hrs, Volume= 0.052 af, Depth= 4.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.99"

Area (sf)	CN	Description
5,500	74	>75% Grass cover, Good, HSG C
5,500		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Pavement Flow - Less than 6 min.**

Summary for Subcatchment P1: NW New Parking Area (Post-)

Runoff = 0.99 cfs @ 12.08 hrs, Volume= 0.082 af, Depth= 7.75"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=7.99"

Area (sf)	CN	Description
5,500	98	Paved roads w/curbs & sewers, HSG C
5,500		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, Pavement Flow - Less than 6 min.**

Summary for Pond 1P: 18-Cultec R-150XLHD Chambers

Inflow Area = 0.126 ac,100.00% Impervious, Inflow Depth = 7.75" for 100-Year event
Inflow = 0.99 cfs @ 12.08 hrs, Volume= 0.082 af
Outflow = 0.73 cfs @ 12.16 hrs, Volume= 0.072 af, Atten= 27%, Lag= 4.3 min
Discarded = 0.00 cfs @ 2.69 hrs, Volume= 0.011 af
Primary = 0.72 cfs @ 12.16 hrs, Volume= 0.061 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Peak Elev= 257.87' @ 12.16 hrs Surf.Area= 704 sf Storage= 1,010 cf

Plug-Flow detention time= 139.7 min calculated for 0.072 af (88% of inflow)
Center-of-Mass det. time= 83.7 min (824.9 - 741.2)

Volume	Invert	Avail.Storage	Storage Description
#1A	255.35'	515 cf	**21.00'W x 33.50'L x 2.54'H Field A** 1,788 cf Overall - 501 cf Embedded = 1,287 cf x 40.0% Voids
#2A	255.85'	501 cf	**Cultec R-150XLHD** x 18 Inside #1 Effective Size= 29.8"W x 18.0"H => 2.65 sf x 10.25'L = 27.2 cf Overall Size= 33.0"W x 18.5"H x 11.00'L with 0.75' Overlap

Row Length Adjustment= +0.75' x 2.65 sf x 6 rows

1,016 cf Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	255.35'	**0.270 in/hr Exfiltration over Surface area**
#2	Primary	256.50'	**4.0" Vert. Orifice/Grate** C= 0.600
#3	Primary	257.55'	**6.0" Vert. Orifice/Grate** C= 0.600

Discarded OutFlow Max=0.00 cfs @ 2.69 hrs HW=255.38' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.72 cfs @ 12.16 hrs HW=257.87' TW=0.00' (Dynamic Tailwater)
├**2=Orifice/Grate** (Orifice Controls 0.46 cfs @ 5.29 fps)
└**3=Orifice/Grate** (Orifice Controls 0.26 cfs @ 1.93 fps)

Summary for Link Po-1: 15" RCP Outlet

Inflow Area = 0.126 ac,100.00% Impervious, Inflow Depth = 5.84" for 100-Year event
Inflow = 0.72 cfs @ 12.16 hrs, Volume= 0.061 af
Primary = 0.72 cfs @ 12.16 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs

Summary for Link Pr-1: 15" RCP Outlet

Inflow Area = 0.126 ac, 0.00% Impervious, Inflow Depth = 4.92" for 100-Year event
Inflow = 0.73 cfs @ 12.09 hrs, Volume= 0.052 af
Primary = 0.73 cfs @ 12.09 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs

Stage-Area-Storage for Pond 1P: 18-Cultec R-150XLHD Chambers

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
255.35	**704**	0
255.40	704	14
255.45	704	28
255.50	704	42
255.55	704	56
255.60	704	70
255.65	704	84
255.70	704	98
255.75	704	113
255.80	704	127
255.85	704	141
255.90	704	169
255.95	704	197
256.00	704	224
256.05	704	252
256.10	704	279
256.15	704	306
256.20	704	333
256.25	704	360
256.30	704	387
256.35	704	414
256.40	704	441
256.45	704	467
256.50	704	493
256.55	704	519
256.60	704	545
256.65	704	570
256.70	704	595
256.75	704	620
256.80	704	644
256.85	704	668
256.90	704	691
256.95	704	714
257.00	704	736
257.05	704	758
257.10	704	778
257.15	704	798
257.20	704	816
257.25	704	833
257.30	704	848
257.35	704	863
257.40	704	877
257.45	704	891
257.50	704	905
257.55	704	919
257.60	704	934
257.65	704	948
257.70	704	962
257.75	704	976
257.80	704	990
257.85	704	1,004
257.90	704	**1,016**
257.95	704	1,016
258.00	704	1,016
258.05	704	1,016

Static StorageVolume at 4" Orifice Outlet Invert

Circle Court, North Attleborough Housing Authority

Subsurface Infiltration Chambers system –Cultec R-150XLHD, 18 - units embedded within 21.0'W x 33.5'L x 2.54'H stone bed.

Drawdown Calculations:

Storage Volume = 493 c.f. (below 4" Orifice invert at 256.50, see HydroCAD Stage -Area-Storage Pond 1P table)

Leaching bed = 21' x 33.5' = 703.5 s.f.

Exfiltration rate, (Loamy Sand, HSG 'A', Rawls rate) = 2.41 inches/hour

Drawdown time = 493 c.f. / 703.5 s.f. / 0.27 in/hr x 12in/ft = 31 hrs < 72 hours. OK



Calculator 9 - Groundwater Mounding Calculator

GROUNDWATER MOUND UNDER A RECTANGULAR RECHARGE AREA

Using the Hantush (1967)Derivation

Back to Calculators

The equation representing the groundwater mound beneath a rectangular recharge area is given by:

$$h_m^2 - h_i^2 = (2w/K)vtS^*((0.5L/(\sqrt{4vt})),(0.5W/(\sqrt{4vt})))$$

where:

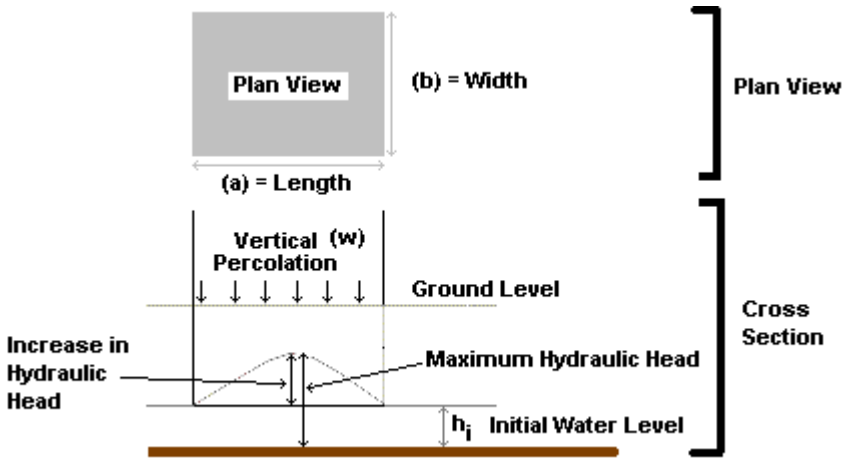
$$v = K\bar{b}/\varepsilon$$

$$\bar{b} = 0.5(h_i(0) + h(t))$$

where h_m is the maximum height of the mound; h_i is the initial height of the water table; w is the recharge or percolation rate; K is the hydraulic conductivity; t is the time of interest; L and W are the length and width of the rectangular recharge area, and ε is the specific yield of the aquifer. S* is an integral equation given by:

$$S^*(\alpha,\beta) = \int_0^1 erf(\frac{\alpha}{\sqrt{T}}) \bullet erf(\frac{\beta}{\sqrt{T}}) dT$$

This equation is estimated in the calculator by using a table of values given by Hantush (1967).



GROUNDWATER MOUND UNDER A RECTANGULAR RECHARGE AREA Using the Hantush (1967) Derivation

Inputs

w (Percolation Rate): 0.48 **[L/T]*K (Hydraulic Conductivity*):** 3 **[L/T]*S***

(Specific Yield): 0.25 **[-]*t*(Time):** 1 **[T]h_i**

(Initial Saturated Thickness): 10 **[L]*a (Length of Recharge Area*):** 10.5 **[L]*b***
(Width of Recharge Area): 16.75 **[L]**

****KEEP UNITS CONSISTENT****

Calculate

Results

****Note that because of estimations of an integral function, this is an estimate****

Maximum hydraulic head: 10.52056184 **[L]Increase in hydraulic head:** 0.52056184 **[L]**

Hantush, M.S.(1967). *Growth and Decay of Groundwater-Mounds in Response to Uniform Percolation*, Water Resources Research vol. 3, no.1, pp 227-234.

Example:

Whatis the maximum mounding at the water table if 1000 liters/day of wateris discharged on an area 3 x 4 m after 2 days (all water infiltrates). Given a hydraulic conductivity of 1 x10^{-6} m/s, and specific yield of 0.01 and an initial saturated thickness of 2 m.

Your results should yield a maximum hydraulic head of approximately 3.3 m and an increase in hydraulic head of 1.3 m.

What might have gone wrong?

- converting from 1000 liters/day to m/day. Convert to m3/day using 1000 liters/m3, then divide by area to get the m/day of water infiltrating. This value should be approximately 0.08 m/day

-converting the hydraulic conductivity to units of m/day. This value should be approximately 0.086

Summary
Inputs
w = 0.08 m/day, K = 0.086m/day, S=0.01, t = 2 days, hi = 2 m, a = 3m, b= 4 m

Results

Maximum hydraulic head = 3.3 m
Increase in hydraulic head = 1.3 m

APPENDIX D:

Stormwater Standards

STORMWATER AND DRAINAGE OPERATION AND MAINTENANCE PLAN

Name of Project: Parking Lot and Walkway Upgrades, Circle Court (667-1)

Location: 34 Circle Court, North Attleborough, Massachusetts 02760

Name of Owner/Operator: North Attleborough Housing Authority (NAHA), 20 South Washington Street, North Attleborough, MA 02760

Owner/Operator Signature: _____, Date _____

I. INTRODUCTION

The maintenance program below provides a general plan with specific requirements for stormwater management controls for **Circle Court (667-1), North Attleborough Housing Authority.** The program is based on the recommended standards presented in the DEP Stormwater Management Policy Handbook Volume 2, Chapter 2 and Guidelines for Stormwater Management and Controlling Urban Runoff: A Practical Manual for Planning and Designing Urban BMPs, by Thomas R. Schueler, July 1987.

II. RESPONSIBILITY AND IMPLEMENTATION

The property owner is the owner of all components of the drainage system as listed in Section III below, until property ownership is transferred, at which the drainage system becomes the property of the successive owner. The implementation, execution, and financing of this maintenance program and emergency repairs shall be the responsibility of the property owner until property ownership is transferred, at which time maintenance and repairs shall be the responsibility of the successive owner.

III. GENERAL REQUIREMENTS

Construction activities shall conform to the approved site plans and any other regulations or requirements of the Town of North Attleborough. Mulch filter tubes, silt fence, and silt sack shall be installed at the limit of work prior to construction. All sediment controls shall be in place before construction shall begin and shall be properly maintained throughout the course of construction. During construction, silt laden runoff shall not be permitted to enter the nearby wetlands or abutting properties.

All BMPs and sediment controls shall be inspected, by the Applicant, on a weekly basis and within 24 hours of a rain event that generates more than ½" of rain in a 24 hour period. Pavement should be swept at the end of each construction day. Once each BMP is installed it shall be operated and maintained in accordance with the Post Construction Operation & Maintenance Plan.

Should any dewatering activities be required, the Applicant shall make certain that all pumped water is free of sediment prior to discharging to the nearby wetlands. The methods for removing any sediment shall be approved by the Town prior to any dewatering activities commence.

IV. BMP MAINTENANCE

Maintenance of Facilities: The Owner agrees to comply with a minimum maintenance schedule as follows:

A. Street Sweeping: Street sweeping roadways and parking areas twice a year minimum. (early Spring and late Fall)

B. Deep Sump Hooded Catch Basin and Gutter inlet: Inspect and clean catch basin and gutter inlet four times per year. Catch basin grate should be inspected every 4 times per year and after every major storm. During each inspection, the drains should be inspected for damage and any evidence of blockages. All accumulated trash, sediment, debris, etc., should be removed as necessary. Clean catch basin sump and gutter inlet sump when sediment depth reaches 1/3 of the sump.

C. Infiltration System (Subsurface Chambers SMP): Preventative maintenance, twice a year; Inspect after every major storm during first 3 months of operation and twice a year thereafter to ensure that the facilities are operating as intended and if necessary, take corrective action. Note how long water remains standing in the basin after a storm; standing water within the basin 48 to 72 hours after a storm indicates that the infiltration capacity may not be functional correctly. All accumulated sediment, debris, should be removed during this time. Inspections conducted at intervals during and after storms will help determine if the facility is meeting the expected infiltration rates.

D. Grassed Area: Maintain vegetation; mow or cut back if impedes water movement or grass health. Inspect eroded areas repair and reseed as needed.

H. Fertilizer used for property shall be low in Nitrogen and Phosphorous free.

V. GENERAL

Dispose of the collected grit, sediment and debris in accordance with current Town/City State and Federal guidelines and regulations.

REFERENCE PLAN

Parking Lot and Walkway Upgrades, Circle Court (667-1), North Attleborough, Massachusetts, North Attleborough Housing Authority, EOHLC Project #197161, prepared by GCG Associates, inc., dated October 30, 2025.

Operation and Maintenance Budget

Inspection: $400 per year

Mowing: $1,000 per year

Cleaning and remove sediment: $1200 per year

Total annual budget = $2,600

Sample Stormwater System Inspection Log/Checklist

INSPECTOR'S NAME &

DATE: NAME & ADDRESS

OF FACILITY:

GENERAL OBSERVATIONS (IS WATER

	Checked? (Y/N)	Maintenance Needed? (Y/N)	Maintenance Completed/ Observations & Remarks
Catch Basins			
CB (Catch Basin)			
CB			
CB			
CB			
CB			
CB			
CB			
GI (Gutter Inlet)			
Infiltration System (Subsurface Chambers)			
Infiltration Chambers System			
Grassed Area			
Grassed Area			
Street Sweeping			
Roadways and Parking Areas			

Attach pictures, summary, sketches, and notes as appropriate.

Standard #10: All illicit discharges to the stormwater management system are prohibited.

I. STATEMENT

This site as shown on the plan titled “Parking Lot and Walkway Upgrades, Circle Court (667-1), North Attleborough, Massachusetts, North Attleborough Housing Authority, EOHLC Project #197161”, prepared by GCG Associates, Inc. and dated October 30, 20025 does not contain any illicit discharges, this was confirmed using visual screening as required by standard 10 of the “Massachusetts Stormwater Handbook” Vol. 1, Ch. 1 page 25. The project proponent, owner, or lessee (in perpetuity) must comply with local, state, and federal regulations for the discharge of illicit discharges from the site. Illicit discharges are discharges that are not entirely comprised of storm water. Notwithstanding the foregoing, an illicit discharge does not include discharges from the following activities:

- Fire fighting
- Water line flushing
- Landscape irrigation
- Uncontaminated ground water
- Potable water sources
- Foundation drains
- Air conditioning condensation
- Footing drains
- Individual car washing
- Water used for street washing and water used to clean residential buildings without detergents

The project proponent, owner, or lessee (in perpetuity) shall adhere to this report on file with the Town of North Attleborough Conservation Commission.

APPENDIX E:

Project Abutter Information

Notification to Abutters

By Hand Delivery, Certified Mail (return receipt requested), or Certificates of Mailing

This is a notification required by law. You are receiving this notification because you have been identified as the owner of land within 100' of another parcel of land for which certain activities are proposed. Those activities require a permit under the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40).

In accordance with the second paragraph of the Massachusetts Wetlands Protection Act, and 310 CMR 10.05(4)(a) of the Wetlands Regulations, you are hereby notified that:

A. A Notice of Intent was filed with the North Attleboro Conservation Commission on December 23, 2025. seeking permission to remove, fill, dredge, or alter an area subject to protection under
M.G.L. c. 131 §40. The following is a description of the proposed activity/activities:

> The project consists of reclaim and repave parking lot and driveway at the North Attleborough Housing Authority, Circle Court housing development for elderly & disabled, (Chapter 667 housing). An additional new 10 parking spaces have be proposed in the courtyard between buildings #7 and #9. Existing walkways to be replaced and widened to meet the current ADA/AAB requirements, additional new walkway connections to improve the accessibility of the facility. A subsurface infiltration chambers system has been proposed to mitigate the increased new pavement runoff and provide groundwater recharge. Portion of the walkway widening and new pavement, and the stormwater infiltration BMP are within the 100-feet bordering vegetated wetland buffer and requires to file a Notice of Intent with the Conservation Commission and MassDEP.

B. The name of the applicant is: North Attleborough Housing Authority.

C. The address of the land where the activity is proposed is: 34 Circle Court, North Attleborough, Map 19 and Parcel 220.

D. Copies of the Notice of Intent may be examined or obtained at the office of the North Attleboro Conservation Commission, located at 43 S Washington St. The regular business hours of the Commission are Monday-Thursday 8:00-4:30pm and Friday 8:00-noon. The Commission may be reached at (508) 699-0100.

E. Copies of the Notice of Intent may be obtained from the applicant or GCG Associates, Inc. representative by calling GCG Associates, Inc. at (978) 657-9714. An administrative fee may be applied for providing copies of the NOI and plans.

F. Information regarding the date, time, and location of the public hearing regarding the Notice of Intent may be obtained from the North Attleboro Conservation Commission. Notice of the public hearing will be published at least five business days in advance, in The Sun Chronicle.

Notification provided pursuant to the above requirement does not automatically confer standing to the recipient to request Departmental Action for the underlying matter. See 310 CMR 10.05(7)(a)4.

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

(to be submitted to the Massachusetts Department of
Environmental Protection and the Conservation Commission
when filing a Notice of Intent)

I, Michael J Carter, hereby certify under the pains and penalties of perjury that on December 26, 2025 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and

the **DEP Guide to Abutter Notification** date April 8, 1994, in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by North Attleborough Housing Authority with the North Attleboro Conservation Commission on December 23, 2025 for property located at 34 Circle Court, North Attleborough, MA.

The form of the notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.

Michael Carter — 12/262025

Signature — Date

TOWN OF NORTH ATTLEBOROUGH
BOARD OF ASSESSORS
43 South Washington Street
North Attleborough, Ma 02760
Phone: (508)-699-0100 Ext. 2514 Fax: (508)-643-3372

John V. Bellissimo, *Chairman*
Paul B. Pinsonnault
Gene Morris

Cheryl Smith
Chief Assessor

CERTIFIED ABUTTERS LIST

Date:	11/3/2025
Location:	34 CIRCLE CT
Map/Lot:	19/220/ 189, 219, 222
Current Owner of Record (as of Jan. 1, 2025) AUTHORITY	N ATTLEBORO HOUSING
Mailing Address:	20 S WASHINGTON ST N ATTLEBORO, MA 02760
Board Prepared For:	CONSERVATION COMMISSION
Applicant:	ANTHONY MA
Phone:	978-657-9714
E-Mail:	TMA@GCGASSOCIATES.NET

In accordance with Section 11, Chapter 40A, as amended, we hereby certify that based on the records of this office and to the best of our knowledge and belief, the attached list are the names and addresses of the abutters to the above referenced property.

NORTH ATTLEBOROUGH BOARD OF ASSESSORS

TOWN OF NORTH ATTLEBOROUGH
BOARD OF ASSESSORS
43 South Washington Street
North Attleborough, Ma 02760
Phone: (508)-699-0100 Ext. 2514 Fax: (508)-643-3372

ABUTTERS LISTING
CONSERVATION COMMISSION
11/3/2025

SUBJECT PARCEL: 19/220/ 189, 219, 222 **SUBJECT LOCATION**: 34 CIRCLE CT

N ATTLEBORO HOUSING AUTHORITY
HOUSING
20 S WASHINGTON ST
N ATTLEBORO, MA 02760

Parcel(s)	Owner & Mailing Address	Property Location
19/19/ 204	ACHIN ZACHARY H 29 SUMNER ST N ATTLEBORO, MA 02760	29 SUMNER ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
19/20/	THE CHOW POTTER GROUP LLC 6 WHIPPOORWILL LN WALPOLE, MA 02081	21 SUMNER ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
19/21/	DEVLIN CAROL A 13 SUMNER ST N ATTLEBORO, MA 02760	13 SUMNER ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
19/22/	DESROSIERS RONALD J + CAROL P 194 HIGH ST N ATTLEBORO, MA 02760	194 HIGH ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
19/23/	JETTE CHARLES F + CONNIE M 140 PAINE RD N ATTLEBORO, MA 02760	208 HIGH ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
19/24/	LEARY ARTHUR R + LORRAINE M 218 HIGH ST N ATTLEBORO, MA 02760	218 HIGH ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
19/25/	PERRON CHARLEMAGNE + MICHAEL 236 HIGH ST N ATTLEBORO, MA 02760	236 HIGH ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
19/26/ 212	NUNEZ JOSE V + MARIA V 248 HIGH ST N ATTLEBORO, MA 02760	248 HIGH ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
19/27/	NIEDBALSKI THEODORE C JR + MAR 258 HIGH ST N ATTLEBORO, MA 02760	258 HIGH ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
19/28/	MARSHALL CRISTINA D + LARSEN ERIC 235 HIGH ST N ATTLEBORO, MA 02760	235 HIGH ST

TOWN OF NORTH ATTLEBOROUGH
BOARD OF ASSESSORS
43 South Washington Street
North Attleborough, Ma 02760
Phone: (508)-699-0100 Ext. 2514 Fax: (508)-643-3372

Parcel(s)	Owner & Mailing Address	Property Location
19/29/	INHABITANTS OF TOWN OF NORTH ATTLEBOROUG 43 S WASHINGTON ST N ATTLEBORO, MA 02760	217 HIGH ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
19/209/	BOYLE RICHARD + LINDA M 25 SUMNER ST N ATTLEBORO, MA 02760	25 SUMNER ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
20/6/	INHABITANTS OF TOWN OF NORTH ATTLEBOROUG 43 S WASHINGTON ST N ATTLEBORO, MA 02760	WEST ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
39/98/ THRU 101	RUNDLE DANIEL + GERALD 7 FOSTER ST N ATTLEBORO, MA 02760	7 FOSTER ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
39/102/ THRU 105	MULLINS JIMMY F III + JESSICA 5 FOSTER ST N ATTLEBORO, MA 02760	5 FOSTER ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
39/106/ THRU 108	RICHARD KELLIE L + ALBERTA PAUL B 3 FOSTER ST N ATTLEBORO, MA 02760	3 FOSTER ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
39/109/ THRU 111	RASK LAWRENCE N + FRANCINE 1 FOSTER ST N ATTLEBORO, MA 02760	1 FOSTER ST
Parcel(s)	**Owner & Mailing Address**	**Property Location**
39/112/ THRU 117	READ BRADLEY EARL + SMITH HAROLD J 35 TAYLOR ST N ATTLEBORO, MA 02760	35 TAYLOR ST


JOHN J GRIMALDI DR
HIGH ST
CIRCLE CT
NORTH ATTLEBORO HOUSING AUTHORITY
(CIRCLE COURT)
DRAINAGE EASEMENT
FOSTER ST
PHILLIPS ST
TAYLOR ST
HORTON ST
466
0.46 AC
28
467
0.62 AC
20
587
0.44 AC
12
292
0.29 AC
275
44
0.82 AC
249
28
0.39 AC
235
29
3.78 AC
217
183
0.20 AC
264
27
0.58 AC
258
26
0.78 AC
248
25
0.40 AC
236
24
0.54 AC
218
212
0.78 AC
222
4.66 AC
23
0.58 AC
208
22
0.64 AC
194
21
0.50 AC
13
20
0.28 AC
21
209
0.21 AC
25
219
4.66 AC
61
220
4.66 AC
189
4.66 AC
19
0.50 AC
29
204
0.51 AC
18
0.35 AC
39
193
0.24 AC
43
199
0.23 AC
47
15
0.37 AC
53
194
0.21 AC
57
14
0.18 AC
65
13
0.16 AC
71

N ATTLEBORO HOUSING AUTHORITY
HOUSING
20 S WASHINGTON ST
N ATTLEBORO, MA 02760

ACHIN ZACHARY H
29 SUMNER ST
N ATTLEBORO, MA 02760

THE CHOW POTTER GROUP LLC
6 WHIPPOORWILL LN
WALPOLE, MA 02081

DEVLIN CAROL A
13 SUMNER ST
N ATTLEBORO, MA 02760

DESROSIERS RONALD J + CAROL P
194 HIGH ST
N ATTLEBORO, MA 02760

JETTE CHARLES F + CONNIE M
140 PAINE RD
N ATTLEBORO, MA 02760

LEARY ARTHUR R + LORRAINE M
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N ATTLEBORO, MA 02760

PERRON CHARLEMAGNE + MICHAEL
236 HIGH ST
N ATTLEBORO, MA 02760

NUNEZ JOSE V + MARIA V
248 HIGH ST
N ATTLEBORO, MA 02760

NIEDBALSKI THEODORE C JR + MAR
258 HIGH ST
N ATTLEBORO, MA 02760

MARSHALL CRISTINA D + LARSEN ERIC
235 HIGH ST
N ATTLEBORO, MA 02760

INHABITANTS OF TOWN OF NORTH
ATTLEBOROUG
43 S WASHINGTON ST
N ATTLEBORO, MA 02760

BOYLE RICHARD + LINDA M
25 SUMNER ST
N ATTLEBORO, MA 02760

INHABITANTS OF TOWN OF NORTH
ATTLEBOROUG
43 S WASHINGTON ST
N ATTLEBORO, MA 02760

RUNDLE DANIEL + GERALD
7 FOSTER ST
N ATTLEBORO, MA 02760

MULLINS JIMMY F III + JESSICA
5 FOSTER ST
N ATTLEBORO, MA 02760

RICHARD KELLIE L + ALBERTA PAUL B
3 FOSTER ST
N ATTLEBORO, MA 02760

RASK LAWRENCE N + FRANCINE
1 FOSTER ST
N ATTLEBORO, MA 02760

READ BRADLEY EARL + SMITH HAROLD J
35 TAYLOR ST
N ATTLEBORO, MA 02760

APPENDIX E:
Wetland Delineation Report

Christopher J. Capone
49 Doherty Avenue
Somerset, MA 02726

WETLANDS FIELD REPORT
GCG Associates
34 Circle Court
204 Elm Street
North Attleboro, MA

September 6, 2025

The purpose of this report is to set forth the basis for the delineation of wetland resource areas on the subject property. The delineation of the bordering vegetated wetland was flagged in accordance with the 2022 MADEP field handbook entitled, Delineation of Bordering Vegetated Wetlands 2nd Edition, and is intended to comply with Massachusetts Wetlands Protection Act, 310 CMR 10.00.

The proposed project is to determine wetland resource areas within two properties owned by the North Attleboro Housing Authority. The properties are identified on the Town of North Attleboro Assessors as Map 11 Lot 1, and Map 19 Lot 220.

I conducted a one day assessment of the properties on 9/5/25. The temperatures were 75 degrees with leaf on conditions. The delineation of the wetland resource areas on the property began with determining the areas were wetland vegetation clearly dominated. After making this determination, I crisscrossed between these wetland areas and surrounding uplands (i.e. within the wetland-uplands transition zones) and placed pink numbered flags were wetlands plants made up at least 50% of the plant community. It was determined the resource areas identified are a Bordering Vegetated Wetland (BVW).

Elm Street- Flags WF #A1- WF #A25 were placed in the field along the edge of wetland. Wetland area is located along the rear parking lot and below Hope Street. Storm water is discharged into this area from the street drains. Water flows south east into an adjacent ponding area before exiting offsite. (See attached)

Circle Court- Flags WF # A1- WF # A14 were placed in the field along the wetland that is located on the west property abutting Circle Court. The wetland is associated with Scotts Brook a perennial stream located within the interior section of the BVW. (See attached)

Wetland Vegetation observed was Glossy Buckthorn (Rhamnus frangula) FAC, Royal Fern (Osmunda regalis) OBL, Jewelweed (Impatiens capensis) FACW, Red Maple (Acer rubrum) FAC, and invasive Purple Loosestrife (Lythrum salicaria) FACW.

If you have questions or concerns please contact me at paulcapone@live.com or (508)642-3040.

Sincerely,

Christopher J. Capone
Christopher J. Capone
Wetlands Consultant

34 Circle Court



Property Information

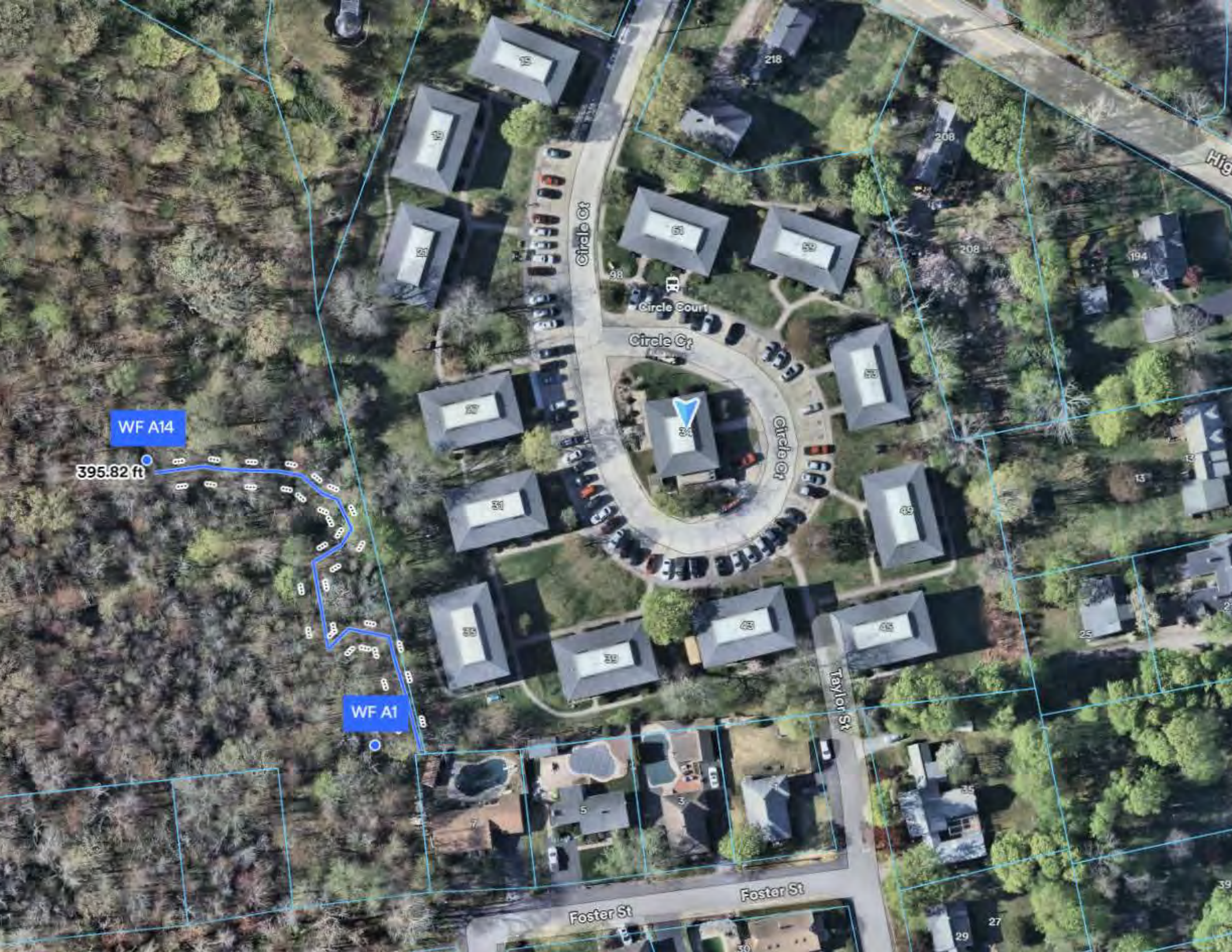
Property ID	19-220
Location	34 CIRCLE CT
Owner	N ATTLEBORO HOUSING AUTHORITY

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

Town of North Attleborough, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated June 2025
Data updated June 2025

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.


WF A14
395.82 ft
WF A1
Circle Ct
Circle Court
Circle Ct
Circle Ct
Taylor St
Foster St
Foster St

III REFERENCES

Parking Lot and Walkway Upgrades
Circle Court (667-1)
North Attleborough, Massachusetts.
North Attleborough Housing Authority
EOHLC Project # 197161
(10 sheets)

GCG ASSOCIATES
CIVIL ENGINEERING & LAND SURVEYING

84 Main Street
Wilmington, MA 01887
Phone: (978) 657-9714

January 29, 2026

Sandra McCrory,
Conservation Commission
Town of North Attleborough
43 South Washington Street
North Attleborough, MA 02760

RE: Circle Court Parking Lot and Walkway Upgrade Project
Notice of Intent

Dear Ms. McCrory:

GCG Associates, Inc., on behalf of the North Attleborough Housing Authority has updated our plans to reflect comments and discussion from the recent hearings. The following revisions have been made to the plans.

- GCG reviewed the original design plans for the development and has determined that the catch basins have a 3-foot sump. We have attached copies of the original plans which reflect this. The plans already required cleaning basin, jetting drain lines and CCTV drain lines. There are 8 catch basins located on the site. We considered removing and replacing them to install four-foot sumps. The cost to do this would be approximately $64,000. The current project is funded through the Executive Office of Housing and Livable Communities and does not have additional funds to cover this cost. **The plans now include the installation of a hood in the existing catch basins to reduce sediment and oil from potentially flowing down the pipe.**
- The plans have been updated to include a stormwater treatment device for water quality on the existing 15” which discharges into the adjacent wetlands which we believe is a greater benefit to treat the stormwater instead of a 4-foot sump. The device will allow for additional treatment of all the onsite catch basins which connect to this drain. A Stormceptor detail has been added to the plans, and the location is shown on the site plan.

Attached you will find updated plans for your review and discussion at the next meeting.

If you have any questions regarding this matter, please contact our office.

Respectfully Submitted,
GCG Associates

Michael J. Carter

Michael J. Carter, PE, PLS
Project Manager

PARKING LOT & WALKWAY UPGRADES

CIRCLE COURT (667-1)

NORTH ATTLEBOROUGH, MASSACHUSETTS

NORTH ATTLEBOROUGH HOUSING AUTHORITY

EOHLC PROJECT #197161

OWNER/APPLICANT:

NORTH ATTLEBOROUGH HOUSING AUTHORITY (NAHA)
20 SOUTH WASHINGTON STREET
NORTH ATTLEBOROUGH, MA, 02760
PHONE: (508) 695-5142

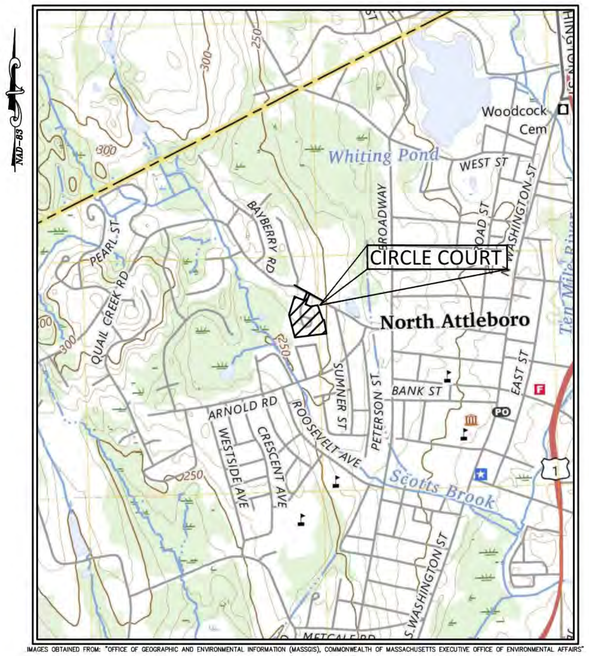
PROJECT ADDRESS:

CIRCLE COURT (667-1)
NORTH ATTLEBOROUGH, MA 02760
MAP 19, LOT 220.
BOOK 20, PAGE 172, N.B.C.R.D..

NORTH ATTLEBOROUGH PLANNING BOARD

_____
_____
_____
_____
_____
_____
_____
_____

DATE: _____



IMAGES OBTAINED FROM: "OFFICE OF GEOGRAPHIC AND ENVIRONMENTAL INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS"

LOCUS PLAN
SCALE : 1"=1000'±

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	NOTES AND LEGEND
3	EXISTING CONDITIONS PLAN
4	DEMOLITION PLAN
5	SITE PLAN
6	GRADING AND DRAINAGE
7	DETAILS I
8	DETAILS II
9	DETAILS III
10	DETAILS IV

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
36907
REGISTERED PROFESSIONAL ENGINEER

01/28/2026

SITE PLAN REVIEW FOR (NAHA)
NORTH ATTLEBOROUGH HOUSING AUTHORITY
100% CONSTRUCTION DOCUMENTS

GCG ASSOCIATES INC. CONSULTING ENGINEERS WILMINGTON, MASSACHUSETTS

REVISED JANUARY 28, 2026
NOVEMBER 12, 2025

Tab: COVER Circle Ct Plot Style: GCG 2018.ctb Plotted By: Billy Howe
2507-100% CD - Circle Ct. NOI Plan Set-ESTED.dwg Saved: 1/28/2026 11:48 AM Plotted: Jan 28, 2026 11:50 am

GENERAL NOTES

1. PLANS AND TOPOGRAPHIC INFORMATION ARE PREPARED FROM GROUND SURVEY AND DRONE SURVEY PERFORMED BY GCG ASSOCIATES, INC., ON MARCH, 19, APRIL 29, AND OCTOBER 2, 2025.
2. WETLAND DELINEATION WAS PERFORMED BY CHRISTOPHER J. CAPONE ON SEPTEMBER 5, 2025, AND FIELD LOCATED BY THIS OFFICE.
3. ALL LOCATIONS OF SUBSURFACE UTILITIES AND STRUCTURES WERE OBTAINED FROM AVAILABLE UTILITY RECORDS. THE SIZE, TYPE, AND LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL PROPERLY LOCATE THE UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN UTILITY INFORMATION BY CONTACTING DIG SAFE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION AT (811). THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY UTILITY LINE LOCATIONS AS NECESSARY.
4. **THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES ON SITE. THE CONTRACTOR SHALL HIRE A PRIVATE MARKING COMPANY TO LOCATE ONSITE UTILITIES. THE COST TO HIRE THE PRIVATE MARKING COMPANY SHALL BE INCLUDED IN THE CONTRACT PRICE.**
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL STATE OR LOCAL BUILDING PERMITS THAT MAY BE REQUIRED. THE NORTH ATTLEBOROUGH HOUSING AUTHORITY SHALL PAY FOR ALL PERMITS.
6. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A CONSTRUCTION SCHEDULE DELINEATING THE SEQUENCE OF WORK AND ESTIMATED TIME OF COMPLETION OF EACH SEGMENT OF WORK, PRIOR TO THE COMMENCEMENT OF WORK.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ALL WORK INCLUDED UNDER THIS CONTRACT. THE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SAFETY BARRIERS, WARNING FLASHERS, ETC., AS REQUIRED BY THE CONDUCT OF THE WORK FOR THE PROTECTION OF WORKERS AND NON-WORKERS ALIKE. THE CONTRACTOR'S ATTENTION IS DIRECTED TO OSHA REQUIREMENTS.
8. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS TRAFFIC FLOW DURING CONSTRUCTION SATISFACTORY TO THE ENGINEER AND THE NORTH ATTLEBOROUGH HOUSING AUTHORITY. ACCESS TO ALL EXISTING RESIDENCES SHALL BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION BY THE CONTRACTOR. ACCESS TO ALL EXISTING RESIDENCES SHALL BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE PARKING LOT DURING CONSTRUCTION FOR ALL RESIDENTS.
9. NO EQUIPMENT SHALL BE ALLOWED TO BE PARKED ON THE ROAD WHEN NOT IN USE. MATERIALS SHALL NOT BE STOCKPILED ON THE ROAD OR IN PARKING AREAS. THE CONTRACTOR SHALL CONSULT THE NORTH ATTLEBOROUGH HOUSING AUTHORITY WITH RESPECT TO LOCATION OF STOCKPILED MATERIALS.
10. ALL CONSTRUCTION SIGNAGE SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
11. BUILDING LOCATIONS AS SHOWN ON ADJACENT PROPERTIES, ARE APPROXIMATE AND FOR REFERENCE PURPOSES ONLY.
12. ALL CONSTRUCTION MATERIAL, DEBRIS, ASPHALT, SOIL, ETC. THAT IS REMOVED FROM THE SITE SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. THE COST FOR THIS SHALL BE INCLUDED IN THE CONTRACT PRICE.
13. THE CONTRACTOR SHALL MAINTAIN THE EXISTING SITE DRAINAGE PATTERNS UNLESS OTHERWISE NOTED. ALL GRADING MODIFICATIONS SHALL DIRECT DRAINAGE AWAY FROM ALL EXISTING BUILDINGS AND TOWARDS THE APPROPRIATE AREAS.
14. ALL GRADING MODIFICATIONS SHALL BE GRADUAL SO AS NOT TO CREATE ANY STEEP SLOPES, UNEVEN AREAS, ETC.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY DEBRIS, SEDIMENT OR SILTY WATER FROM ENTERING ANY DRAINAGE SYSTEM, ETC. DURING ALL PHASES OF CONSTRUCTION.
16. DURING CONSTRUCTION THE CONTRACTOR SHALL PROTECT ALL TREES AND ROOTS OF TREES TO REMAIN. ROOTS ON TREES WHICH ARE IMPACTING THE SAFETY OF THE SITE OR AFFECTING WALKWAYS SHALL BE REMOVED BY THE CONTRACTOR.
17. THE CONTRACTOR SHALL REMOVE OVERGROWN VEGETATION ALONG WALKWAYS AND FENCES AS NEEDED. COST SHALL BE INCLUDED IN THE CONTRACT PRICE.
18. DURING THE COURSE OF CONSTRUCTION ANY DAMAGE BY THE CONTRACTOR TO FENCES, GUARD RAILS, PATHS, STAIRS, PAVEMENT AND VEGETATION SHALL BE REPAIRED OR REPLACED AND RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE CONTRACT. ANY REPLACEMENT FENCE AND/OR HANDRAILS SHALL MATCH EXISTING FENCE IN TYPE, FINISH (GALVANIZED AND VINYL CLAD), COLOR AND MESH SIZE.
19. ALL CASTINGS, GATE BOXES, HYDRANTS, LIGHT POLES, ETC. DAMAGED DURING RECONSTRUCTION SHALL BE SUPPLIED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE.
20. SIDEWALKS, WALKWAYS AND DRIVEWAYS THAT ARE DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL ONCE THE WORK IS COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
22. ANY POLICE DETAILS REQUIRED SHALL BE INCLUDED IN THE LUMP SUM PRICE AT NO ADDITIONAL COST TO THE OWNER.
22. THE CONTRACTOR SHALL MAINTAIN ACCESS DURING CONSTRUCTION FOR ALL RESIDENTS. ANY TEMPORARY WALKS/RAMPS REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT. ALL DISTURBED AREA IS TO BE RESTORED WITH LOAM (6" MINIMUM) AND SEED AT NO ADDITIONAL COST TO THE OWNER.
24. THE CONTRACTOR SHALL PROVIDE TEMPORARY RAMPS AND WALKWAYS AS NECESSARY TO RESIDENTS.

PAVING AND RECLAMATION NOTES

1. ALL TRENCHES WILL BE COMPACTED TO ALLOW PROPER SETTLEMENT. ALL TRENCHES WILL BE COMPACTED TO 95% COMPACTION. INCLUDE PAYMENT UNDER ASSOCIATED ITEM.
2. PRIOR TO RECLAIMING, THE CONTRACTOR SHALL COMPLETE ALL EXCAVATING AND PREPARING SUBGRADE REQUIRED TO PULVERIZE THE PAVEMENT AND SHALL LOWER ALL CASTINGS AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
3. BOTH PARKING LOTS AND ROADWAYS SHALL BE RECLAIMED TO A MINIMUM DEPTH OF 16" BELOW THE PROPOSED FINISH GRADE WITHIN THE PROJECT LIMITS. THE EXISTING PAVEMENT SHALL BE PULVERIZED TO THE POINT WHERE NO MATERIAL IS GREATER THAN 3".
4. THE CONTRACTOR SHALL RECLAIM THE ENTIRE WIDTH OF EXISTING MATERIAL. THE LIMITS (EDGE OF PAVEMENT) OF THE EXISTING PAVED SURFACES ARE SHOWN IN THE PLAN VIEW OF THESE CONSTRUCTION DRAWINGS.
5. AFTER PULVERIZING THE PARKING LOT ASPHALT PAVEMENT AND UNDERLYING MATERIALS, THE CONTRACTOR SHALL REMOVE AND STOCKPILE (WINROW) THE RECLAIMED MATERIAL. THE CONTRACTOR SHALL THEN EXCAVATE AND REMOVE THE NECESSARY SUBGRADE MATERIAL IN ORDER TO MEET THE FINAL GRADES OF THE PARKING LOTS. THE CONTRACTOR SHALL THEN PLACE, GRADE AND COMPACT THE EXISTING RECLAIMED BASE COURSE TO A 12" DEPTH AS SHOWN ON THE TYPICAL ROADWAY CROSS SECTION. THE SUBBASE SHALL THEN BE FINE GRADED AND COMPACTED TO ALLOW FOR THE PLACEMENT OF: 2" BASE COURSE INTERMEDIATE COURSE PAVEMENT (SIC-19.0-TABLE 460.10-1) AND 1-1/2" SURFACE COURSE (SSC-9.5-TABLE 460.10-1) AND ACCORDING TO MASSDOT SECTION 460-"HOT MIX ASPHALT PAVEMENT FOR LOCAL STREETS"
6. AFTER PULVERIZING THE EXISTING IN PLACE ASPHALT AND UNDERLYING MATERIAL (TOTAL OF 16" DEPTH), THE CONTRACTOR SHALL PLACE, GRADE AND COMPACT THE EXISTING RECLAIMED BASE COURSE TO A 12" DEPTH AS SHOWN ON THE TYPICAL CROSS SECTION.
7. THE CONTRACTOR SHALL GRADE THE EXISTING RECLAIMED SUBBASE MATERIAL OR GRAVEL BORROW MATERIAL TO ALLOW THE FINAL PAVEMENT SURFACE TO MATCH THE EXISTING EDGE OF PAVEMENT GRADES UNLESS OTHERWISE NOTED. THE RECONSTRUCTION OF THE PARKING LOTS SHALL ALSO BE IN ACCORDANCE WITH THE TYPICAL CROSS SECTION DETAIL SHOWN ON THE PLANS. ANY GRADING MODIFICATIONS SHALL DIRECT DRAINAGE TOWARDS THE APPROPRIATE AREAS.
8. ALL PROPOSED CUTS AND FILLS REQUIRED TO GRADE THE RECLAIMED MATERIAL TO A 12" DEPTH SHALL BE INCLUDED FOR PAYMENT UNDER THE APPROPRIATE ITEM.
9. ALL DRAINAGE AND UTILITY CASTINGS SHALL BE LOWERED OR REMOVED AND PLATED PRIOR TO RECLAIMING THE PARKING LOTS. ALL STRUCTURES MUST BE LOWERED TO A DEPTH OF 6 INCHES BELOW THE BOTTOM OF THE PROPOSED RECLAIMED BASE COURSE.
10. THE CONTRACTOR SHALL FINE GRADE THE EXISTING RECLAIMED BASE COURSE MATERIAL NO MORE THAN 24 HOURS PRIOR TO THE PLACEMENT OF THE 2" BASE COURSE PAVEMENT. ALL GRADING, COMPACTION AND DUST CONTROL ASSOCIATED WITH FINE GRADING TO BE INCLUDED IN THE APPROPRIATE RECLAIM ITEM.
11. THE CONTRACTOR SHALL STOCKPILE AND RETAIN SUFFICIENT SURPLUS SUBBASE AND RECLAIMED PAVEMENT SUBBASE MATERIALS TO USE AS NEEDED IN THE ENTIRE PROJECT AREA. THE COSTS ASSOCIATE WITH THE EXCAVATION, PLACEMENT AND DISPOSAL OF SURPLUS SUBBASE MATERIAL SHALL BE INCLUDED IN THE LUMP SUM PRICE. NO ADDITIONAL PAYMENT FOR PLACEMENT SHALL BE MADE. SURPLUS SUBBASE AND RECLAIMED PAVEMENT SUBBASE MATERIAL SHALL BE USED ONSITE PRIOR TO GRAVEL BORROW MATERIAL. ANY EXCESS RECLAIMED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NO ADDITIONAL PAYMENT FOR DISPOSAL SHALL BE MADE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION TESTING. SEE SPECIFICATION SECTION 02250 FOR COMPACTION CONTROL AND TESTING.
13. PRIOR TO COMPLETING FINAL GRADING OF THE RECLAIMED BASE COURSE, THE ENGINEER SHALL REVIEW GRADES TO DETERMINE THAT SUFFICEINT CROSS SLOPES AND POSITIVE DRAINAGE FLOWS HAVE BEEN MAINTAINED. IF GRADES NEED TO BE ADJUSTED, THE CONTRACTOR SHALL REGRADE AS DIRECTED.
14. CROSS SLOPES AT CATCH BASINS SHALL BE ADJUSTED AS NECESSARY TO ASSURE PROPER DRAINAGE.
15. CONTRACTOR SHALL CONTROL DUST DURING CONSTRUCTION USING CALCIUM CHLORIDE AS NECESSARY.
16. DRAINAGE STRUCTURES SHALL BE ADJUSTED OR REMODELED AS REQUIRED TO MEET GRADE AT NO ADDITIONAL COST TO THE OWNER.
17. SHOULDERS OF DRIVEWAY AND PARKING AREAS SHALL BE GRADED FOR A SMOOTH TRANSITION FROM THE PROPOSED EDGE OF PAVEMENT/CURB TO THE EXISTING GRADE.
18. ALL STRUCTURES SHALL BE LOWERED PRIOR TO RECLAIMING AND THEN RAISED TO FINISHED GRADE ONCE BINDER IS PLACED.

FINE GRADING AND COMPACTING

1. THE CONTRACTOR SHALL FINE GRADE AND COMPACT ALL AREAS IN PREPARATION FOR PAVEMENT, INCLUDING, BUT NOT LIMITED TO THE PARKING LOT AREAS AND TRANSITION DRIVEWAY AREAS. THE CONTRACTOR SHALL ALSO STRAIGHT CUT ALL EXISTING JOINTS AND EDGES IN PREPARATION FOR FINAL PAVEMENT.
2. PAYMENT FOR GRADING AND COMPACTING THE PROPOSED OR RECONSTRUCTED BITUMINOUS CONCRETE SIDEWALKS, RAMPS AND DRIVEWAY APRONS SHALL BE INCLUDED IN THE APPROPRIATE SIDEWALK, APRON, OR RAMP ITEM.
3. PAYMENT FOR FINE GRADING AND COMPACTING THE RECONSTRUCTED BITUMINOUS PARKING LOTS SHALL BE INCLUDED IN THE APPROPRIATE CONTRACT ITEM.

RAISING CASTINGS

1. ALL CASTINGS WILL BE RAISED TO FINISHED GRADE AFTER PLACEMENT OF THE 2" BASE PAVING COURSE, PRIOR TO PLACEMENT OF THE 1-1/2" FINAL PAVING COURSE.

CATCH BASIN & DRAIN LINE CLEANING NOTES

1. ALL ACCUMULATED SEDIMENT, DEBRIS, ORGANIC MATTER, ETC. MUST BE REMOVED FROM CATCH BASINS AND DRAINAGE SYSTEM UPON COMPLETION OF THE PROJECT.
2. SILT SACKS SHALL BE PLACED IN ALL CATCH BASINS AS SHOWN ON THE PLAN DURING CONSTRUCTION PERIOD.
3. ALL SEDIMENT AND DEBRIS REMOVED FROM THE CATCH BASIN OR PIPE LINE SHALL BE PROPERLY HANDLED AND DISPOSED OF AT AN OFF-SITE LOCATION IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.
4. ANY REQUIRED MAINTENANCE OR REPAIRS NOTED DURING THE CLEANING AND INSPECTION SHOULD BE ADDRESSED IMMEDIATELY.
5. THE EXISTING DRAIN LINE SHALL BE JETTED, CLEANED, AND A VIDEO OF THE LINE SHALL BE TAKEN AFTER CLEANING.
6. HOOD SHOULD BE INSTALLED IN ALL EXISTING CATCH BASINS.

CURB AND SIDEWALK NOTES

1. BITUMINOUS CONCRETE SIDEWALKS SHALL BE CONSTRUCTED WITH 1-½" TOP COURSE AND A 1-½" BINDER COURSE, ACCORDING TO THE CONSTRUCTION DETAILS AND AS SPECIFIED.
2. CEMENT CONCRETE WALKS SHALL BE A OF MINIMUM 4" THICK. CEMENT CONCRETE RAMPS AND DRIVEWAY APRONS SHALL BE A MINIMUM OF 6" THICK.
3. CEMENT CONCRETE WALKS, RAMPS, AND DRIVEWAY APRONS SHALL BE MINIMUM 4,000 PSI REINFORCED CEMENT CONCRETE.
4. STOCKPILED EXCESS RECLAIMED GRAVEL SHALL BE USED TO REPLACE OR ADJUST THE GRAVEL BASE FOR THE PROPOSED SIDEWALKS THROUGHOUT THE PROJECT AND SHALL BE INCLUDED IN THE SIDEWALK PRICE.
5. ALL GRANITE CURB SHALL BE OF TYPE VA-4 AS SPECIFIED BY MASSDOT AND SHALL INCLUDE ALL LENGTHS – STRAIGHT, RADIUS, TRANSITION AND CURB INLETS.
6. NEW AND/OR SALVAGED GRANITE CURBING SHALL BE SET IN ACCORDANCE WITH THE CONSTRUCTION DETAIL PROVIDED IN CONTRACT DRAWINGS.
7. NEW AND/OR SALVAGED GRANITE CURBING SHALL BE INSTALLED BY THE CONTRACTOR AT THE NEW PROPOSED GRADES AND EDGE OF ROADWAY LINES AS DEPICTED ON THE PLANS

CONSTRUCTION PHASING

1. THE PROPOSED WORK SHALL BE COMPLETED IN PHASES SO AS TO PROVIDE ADEQUATE PARKING DURING CONSTRUCTION FOR RESIDENTS AND VISITORS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CONSTRUCTION PHASING WITH THE NORTH ATTLEBOROUGH HOUSING AUTHORITY AND THE ENGINEER.

ABBREVIATIONS

APPROX	APPROXIMATE
BB	BITUMINOUS BERM CURB
BC	BOTTOM OF CURB
BLDG	BUILDING
BIT	BITUMINOUS CONCRETE
CB	CATCH BASIN
CC	CONCRETE CURB
CCB	CAPE COD BERM
CIP	CAST-IN-PLACE
CLF	CHAIN LINK FENCE
CONC	CONCRETE
D	DRAIN
DI	DUCTILE IRON
DRV	DRIVEWAY
DMH	DRAIN MANHOLE
E	ELECTRIC
EMH	ELECTRIC MANHOLE
EOC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
EX	EXISTING
HCR	HANDICAPPED RAMP
HYD	HYDRANT
INV	INVERT
LF	LINEAR FEET
LP	LIGHT POLE
MH	MANHOLE
N/F	NOW OR FORMERLY
NO	NUMBER
PROP	PROPOSED
R	RIM
SMH	SEWER MANHOLE
SPEC	SPECIFICATION
SW	SIDEWALK
TC	TOP OF CURB
TH	THRESHOLD
TYP	TYPICAL
UP	UTILITY POLE
VGC	VERTICAL GRANITE CURB

EXISTING LEGEND

EXIST. MAG NAIL BENCHMARK
EXIST. CATCH BASIN
EXIST. ROUND CATCH BASIN
EXIST. DRAIN MANHOLE
EXIST. SEWER MANHOLE
EXIST. MANHOLE
EXIST. ELECTRIC MANHOLE
EXIST. PULL BOX
EXIST. HYDRANT
EXIST. WATER GATE VALVE
EXIST. GAS GATE VALVE
EXIST. BOLLARD
EXIST. LIGHT POST
EXIST. SIGN
EXIST. FLAG POLE
EXIST. SITE BENCH
EXIST. BLDG. (APPROX.)
EXIST. DRAIN LINE
EXIST. SEWER LINE
EXIST. WATER LINE
EXIST. ELECTRIC LINE
EXIST. GAS LINE
EXIST. TELEPHONE LINE
EXIST. PLUMBING
EXIST. CURB
EXIST. CHAIN LINK FENCE
EXIST. VINYL FENCE
EXIST. WALL
EXIST. 5' CONTOURS
EXIST. 1' CONTOURS
EXIST. SPOT GRADE
EXIST. TREE W/ DIAMETER
EXIST. TREE/VEGETATION LINE
APPROX. ABUTTER LOT LINE

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

NOTES AND LEGEND

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

MICHAEL J. CARTER CIVIL No. 35907 REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
01/28/2026

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: NOT TO SCALE DATE: NOVEMBER 12, 2025
JOB NO.\FILE NAME: 2507-100%_CD – CIRCLE CT. NOI PLAN SET-EDITED
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 2 OF 10

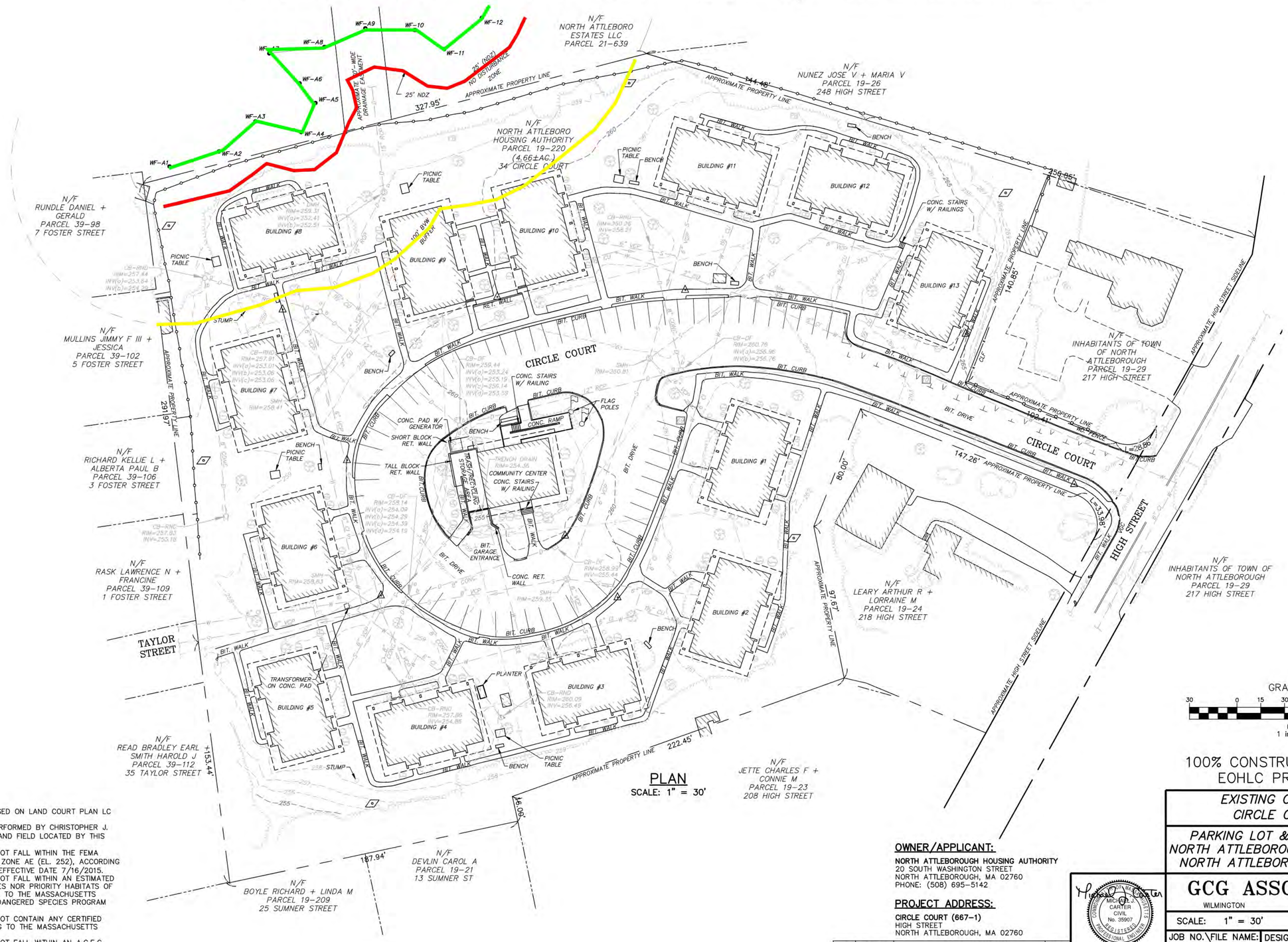
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1	1/28/26	REVIEW COMMENTS	L.P.B.

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NAD-83

CIRCLE COURT (667-1) HOUSING



PLAN
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

NOTES:

1. PROPERTY BOUNDARY BASED ON LAND COURT PLAN LC #31895 A & C.
2. WETLAND DELINEATION PERFORMED BY CHRISTOPHER J. CAPONE ON 9/05/2025, AND FIELD LOCATED BY THIS OFFICE ON 9/29/2025.
3. LOCUS PROPERTY DOES NOT FALL WITHIN THE FEMA NATIONAL FLOOD HAZARD ZONE AE (EL. 252), ACCORDING TO PANEL 25005C0102G, EFFECTIVE DATE 7/16/2015.
4. LOCUS PROPERTY DOES NOT FALL WITHIN AN ESTIMATED HABITATS OF RARE SPECIES NOR PRIORITY HABITATS OF RARE WILDLIFE ACCORDING TO THE MASSACHUSETTS NATURAL HERITAGE & ENDANGERED SPECIES PROGRAM (NHESP).
5. LOCUS PROPERTY DOES NOT CONTAIN ANY CERTIFIED VERNAL POOLS ACCORDING TO THE MASSACHUSETTS NATURAL HERITAGE.
6. LOCUS PROPERTY DOES NOT FALL WITHIN AN A.C.E.C.
7. LOCUS PROPERTY DOES NOT FALL WITHIN A ZONE II.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

OWNER/APPLICANT:
NORTH ATTLEBOROUGH HOUSING AUTHORITY
20 SOUTH WASHINGTON STREET
NORTH ATTLEBOROUGH, MA 02760
PHONE: (508) 695-5142

PROJECT ADDRESS:
CIRCLE COURT (667-1)
HIGH STREET
NORTH ATTLEBOROUGH, MA 02760

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MICHAEL J. CARTER CIVIL No. 35907 REGISTERED PROFESSIONAL ENGINEER
01/28/2026

EXISTING CONDITIONS PLAN
CIRCLE COURT (667-1)

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

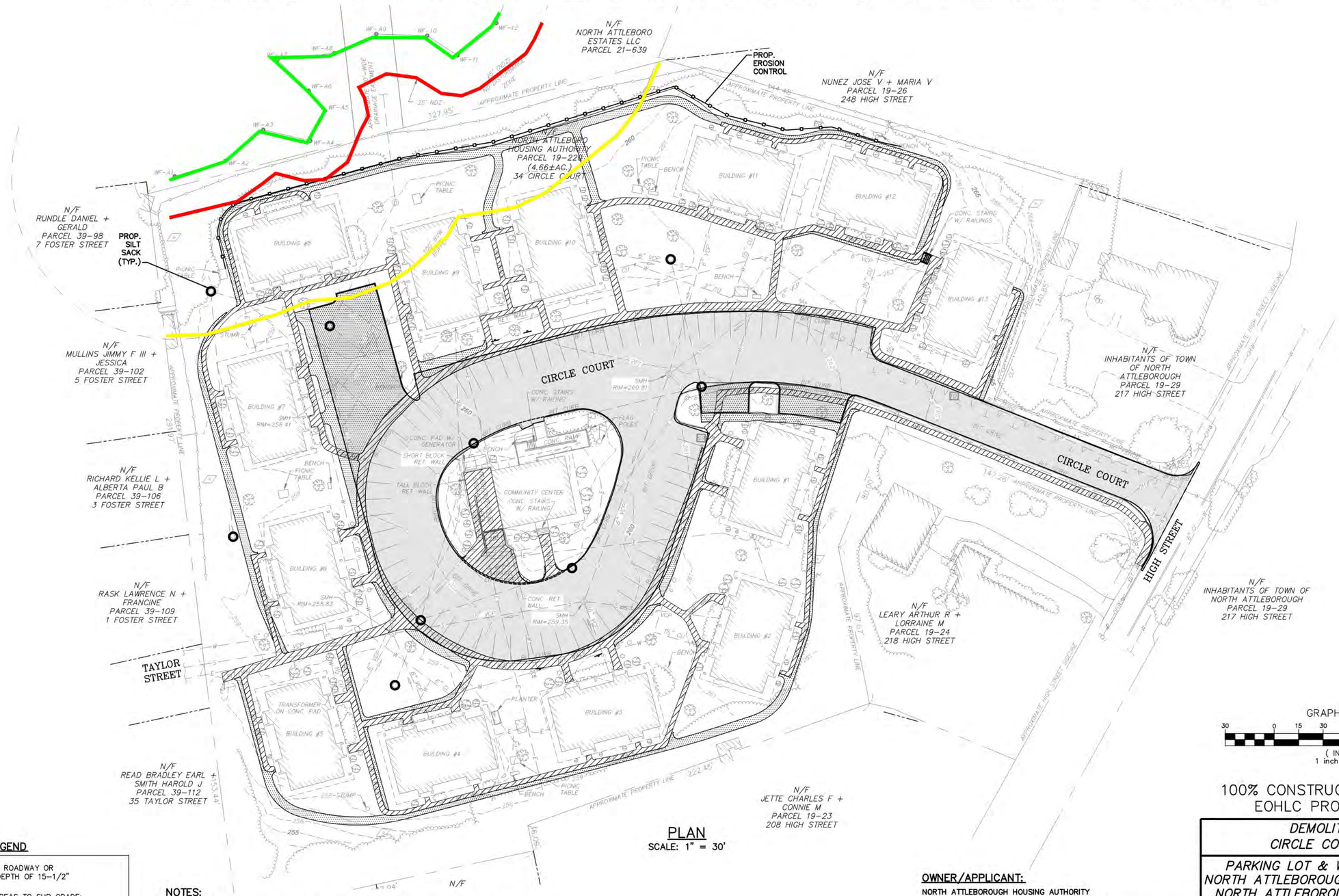
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PLAN NO. 3 OF 10

Tab: 3-C, EXISTING Plot Style: GCG-2018.ctb Plotted By: Billy Howe
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CIRCLE COURT HOUSING DEVELOPMENT



PLAN
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GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
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SITE DEMOLITION LEGEND

- RECLAIM EXISTING ROADWAY OR DRIVEWAY TO A DEPTH OF 15-1/2"
- EXCAVATE NEW AREAS TO SUB GRADE: 15-1/2" BELOW FINISHED GRADE FOR ROADWAYS AND PARKING AREAS, 11" BELOW FINISHED GRADE FOR SIDEWALKS
- EXCAVATE EXISTING SIDEWALKS TO SUB GRADE: 11" BELOW FINISHED GRADE FOR SIDEWALKS

NOTES:

1. INDIVIDUAL BITUMINOUS CONCRETE ACCESS WALKWAYS LESS THAN 5 FEET WIDE SHALL BE REMOVED AND EXCAVATED TO SUBGRADE AT A MINIMUM OF 5 FEET WIDE. ENTRANCE WALKWAYS GREATER THAN 5 FEET WIDE SHALL BE REMOVED AND EXCAVATED TO SUBGRADE TO THE EXISTING WIDTH.
2. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED AND SEEDED.
3. ALL DRAINAGE FRAMES AND GRATES SHALL BE REMOVED AND PLATED PRIOR TO RECLAMATION.
4. ALL DRAINAGE STRUCTURES SHALL BE CLEANED UPON COMPLETION OF WORK.

OWNER/APPLICANT:
NORTH ATTLEBOROUGH HOUSING AUTHORITY
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PHONE: (508) 695-5142

PROJECT ADDRESS:
CIRCLE COURT (667-1)
HIGH STREET
NORTH ATTLEBOROUGH, MA 02760

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COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
01/28/2026

DEMOLITION PLAN
CIRCLE COURT (667-1)

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

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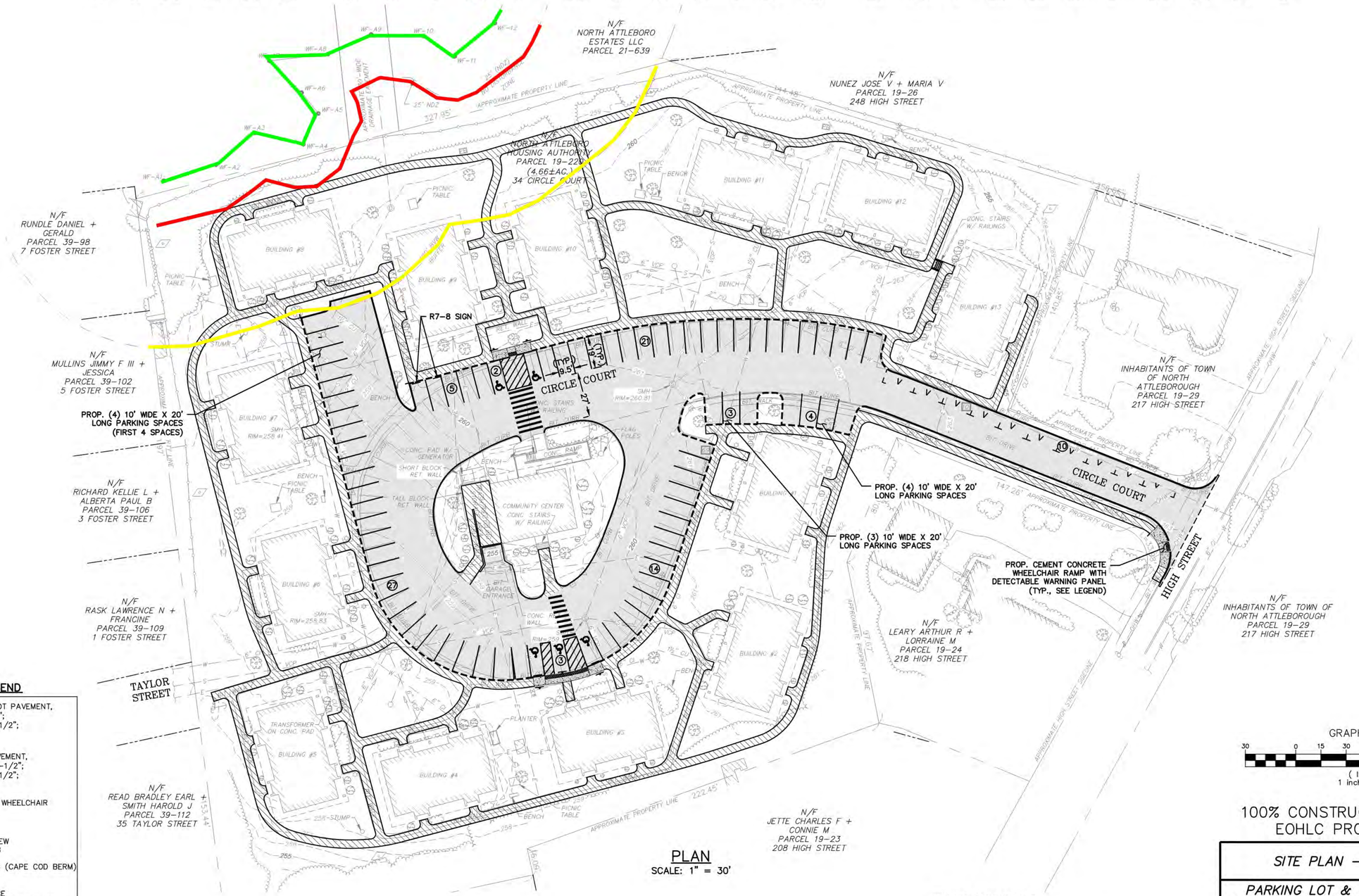
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DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 4 OF 10

Tab: 4 C_DEMO Plot Styler: GCG-2018.ctb Plotted By: Billy Howe

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NAD-83

CIRCLE COURT HOUSING DEVELOPMENT



PLAN
SCALE: 1" = 30'

SITE IMPROVEMENT LEGEND

- ROADWAY & PARKING LOT PAVEMENT, HMA BASE COURSE = 2"; HMA TOP COURSE = 1-1/2"; GRAVEL BASE = 12";
- SIDEWALK/WALKWAY PAVEMENT, HMA BASE COURSE = 1-1/2"; HMA TOP COURSE = 1-1/2"; GRAVEL BASE = 8";
- NEW CEMENT CONCRETE WHEELCHAIR RAMP, THICKNESS = 6"
- REMOVE & RESET OR NEW VERTICAL GRANITE CURB
- HOT MIX ASPHALT CURB (CAPE COD BERM)
- EXISTING PARKING SPACE
  EXISTING TOTAL PARKING SPACES=79
  (69 PARKING SPACES, 10 VISITOR SPACE, ADA/AAB SPACE NOT ASSIGNED)
- (4) PROPOSED PARKING SPACE
  PROPOSED TOTAL PARKING SPACES=89
  (74 PARKING SPACES, 10 VISITOR SPACE, AND 5 ADA/AAB SPACES)

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

OWNER/APPLICANT:
NORTH ATTLEBOROUGH HOUSING AUTHORITY
20 SOUTH WASHINGTON STREET
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PHONE: (508) 695-5142

PROJECT ADDRESS:
CIRCLE COURT (667-1)
HIGH STREET
NORTH ATTLEBOROUGH, MA 02760

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MICHAEL J. CARTER CIVIL No. 35907 REGISTERED PROFESSIONAL ENGINEER
01/28/2026

SITE PLAN – CIRCLE COURT

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1" = 30' DATE: NOVEMBER 12, 2025

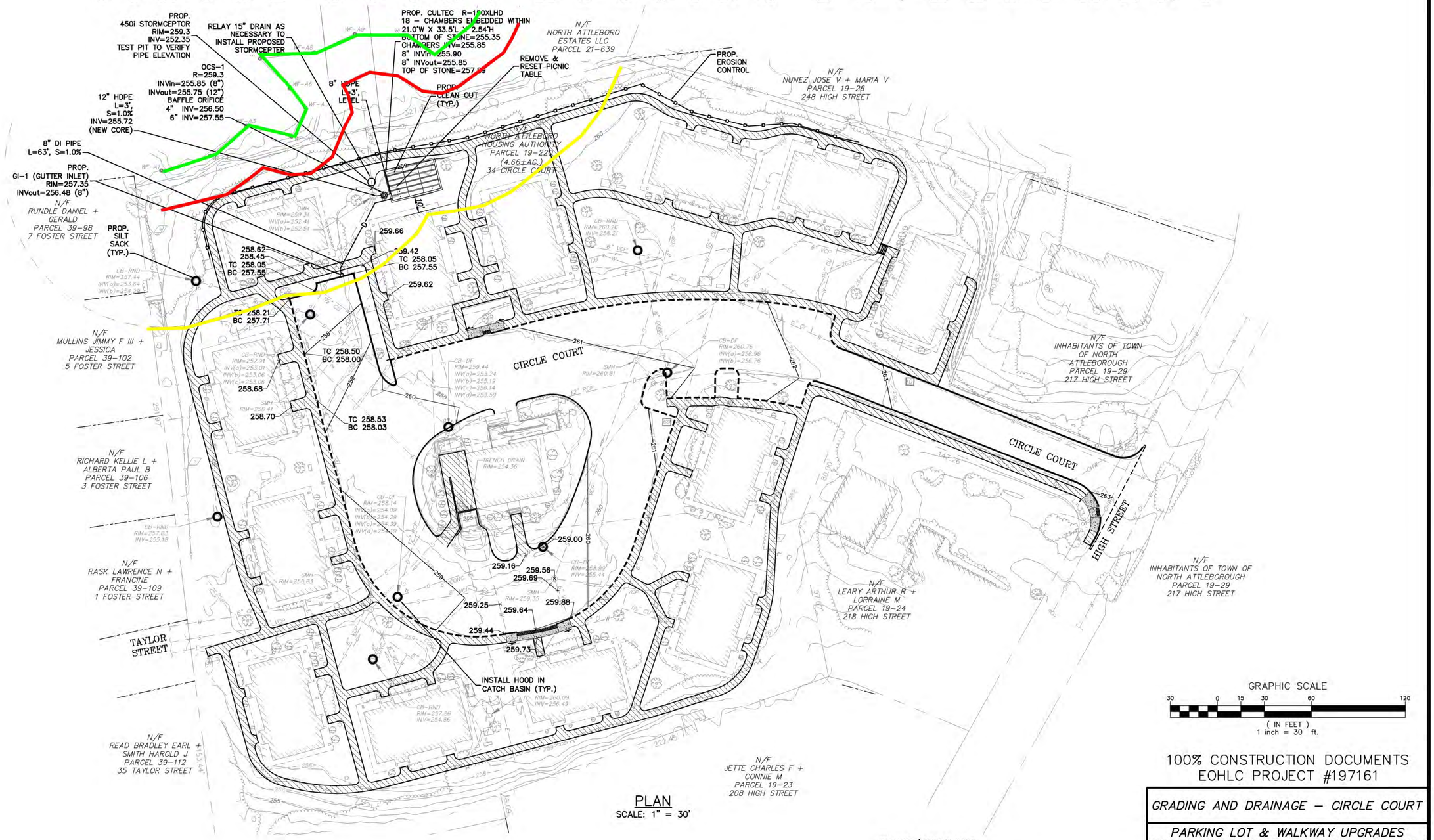
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CHECKED BY: M.J.C.
PLAN NO. 5 OF 10

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NAD-83

CIRCLE COURT HOUSING DEVELOPMENT



PLAN
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

OWNER/APPLICANT:
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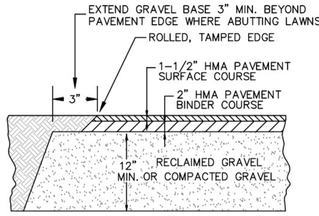
GRADING AND DRAINAGE - CIRCLE COURT

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

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CHECKED BY: M.J.C.
PLAN NO. 6 OF 10

Tab: B-C_GRADE & DRAIN, Plot Style: GCG-2018.ctb, Plotted By: Billy Howe
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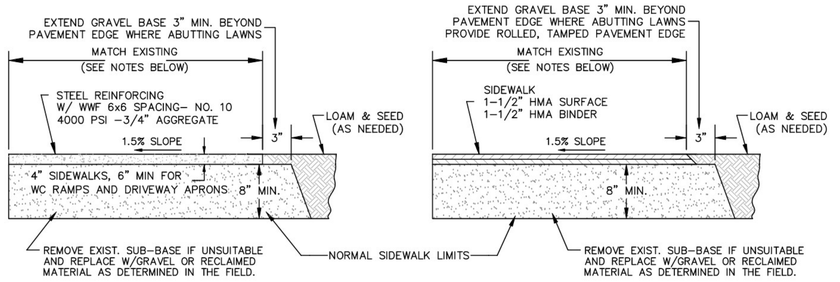


NOTES:

1. PRIOR TO COMPLETING FINAL GRADING OF THE RECLAIMED BASE COURSE THE ENGINEER SHALL REVIEW GRADES TO DETERMINE THAT SUFFICIENT DRAINAGE PATTERNS AND CURB REVEAL ARE MAINTAINED. IF GRADES NEED TO BE ADJUSTED, THE CONTRACTOR SHALL REGRADE AS DIRECTED. THE COST TO PERFORM THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE.
2. PROVIDE JOINT SEALANT WHERE PAVING ABUTS CURBING, WALLS, STEPS, CASTINGS, ETC.

TYPICAL DRIVEWAY & PARKING PAVEMENT SECTION

N.T.S.



CEMENT CONCRETE

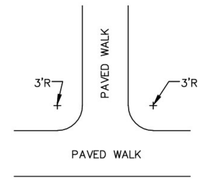
HMA PAVEMENT

NOTES:

1. GRAVEL IN AREAS OF EXISTING SIDEWALKS WHICH ARE BEING REMOVED OR REPLACED IN THE SAME LOCATION SHALL BE REGRADED AND SUPPLEMENTAL GRAVEL ADDED. ADDITIONAL GRAVEL REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE.
2. EXCAVATION AND PLACEMENT OF GRAVEL REQUIRED FOR NEW SIDEWALKS, WIDENING SIDEWALKS AND PAVED AREA SHALL BE INCLUDED IN THE CONTRACT PRICE. DISPOSAL OF THE EXCAVATED MATERIAL SHALL ALSO BE INCLUDED IN THE CONTRACT PRICE.
3. REMOVAL OF STUMPS AND CUTTING AND DISPOSAL OF ROOTS SHALL BE INCLUDED IN THE CONTRACT COST TO CONSTRUCT WALKWAYS.
4. PROVIDE JOINT SEALANT WHERE PAVING ABUTS CURBING, WALLS, STEPS, CASTINGS, ETC.
5. WHERE WALKWAY ABUT TO CONCRETE STEP, INCREASE GRAVEL GRAVEL BASE TO 18" THICK FOR A MINIMUM OF 18" IN FRONT OF THE STEP.

SIDEWALK DETAIL

N.T.S.

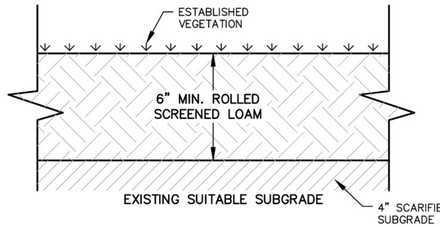


NOTES:

1. ALL WALKWAYS SHALL HAVE A 3' RADIUS AT INTERSECTIONS.

TYPICAL PAVED WALKWAY INTERSECTION DETAIL

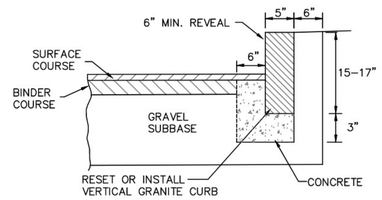
N.T.S.



1. ALL DISTURBED AREAS TO BE LOAMED WITH A MINIMUM OF 6–INCHES OF SCREENED LOAM IN ACCORDANCE WITH MASSACHUSETTS HIGHWAY DEPARTMENT (MHD) STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES SECTION 751. LOAM MATERIAL SHALL MEET MHD M1.05.0 MATERIAL SOURCE AND IN–PLACE LABORATORY ANALYTICAL TESTING OF LOAM FOR COMPLIANCE WITH M1.05.0 MAY BE REQUIRED BY THE OWNER PRIOR TO PLACEMENT AND FINAL ACCEPTANCE.
2. AFTER PLACEMENT, ROLLING AND RAKING OF THE SCREENED TOPSOIL, SEEDING AND FERTILIZING OF THE TOP SOIL SHALL BE IN ACCORDANCE WITH MHD STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES SECTION 765. IF NECESSARY, REFERTILIZATION SHALL OCCUR IN ACCORDANCE WITH MHD SECTION 766.
3. MULCHING SHALL BE IN ACCORDANCE WITH MHD SECTION 767, FOR AREAS SPECIFICALLY INDICATED ON THE DRAWINGS, OR AS FIELD CONDITIONS MAY WARRANT.
4. SEED MIX, FERTILIZER AND MULCHING MATERIALS SHALL COMPLY WITH SECTION M6 OF MHD STANDARD SPECIFICATIONS FOR ROADSIDE DEVELOPMENT MATERIALS. SUBMITTAL REQUIREMENTS MAY INCLUDE PRODUCT LABELS OR LABORATORY ANALYTICAL TESTING, AS MAY BE REQUESTED BY THE OWNER OR THEIR AGENTS.

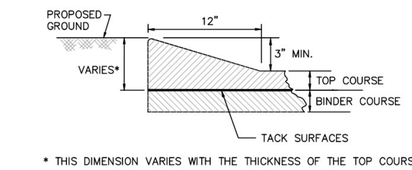
LOAM & SEED

NOT TO SCALE



VERTICAL GRANITE CURB

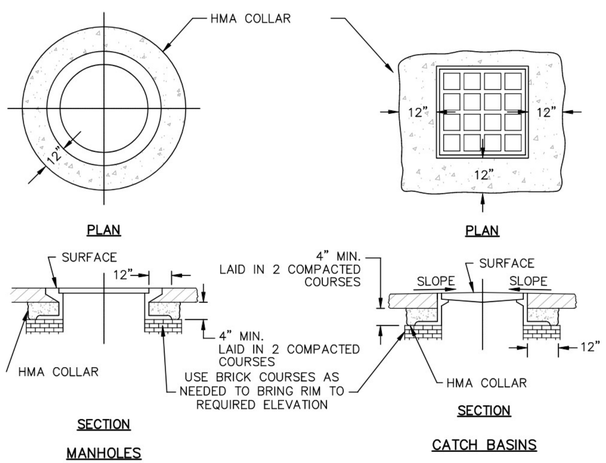
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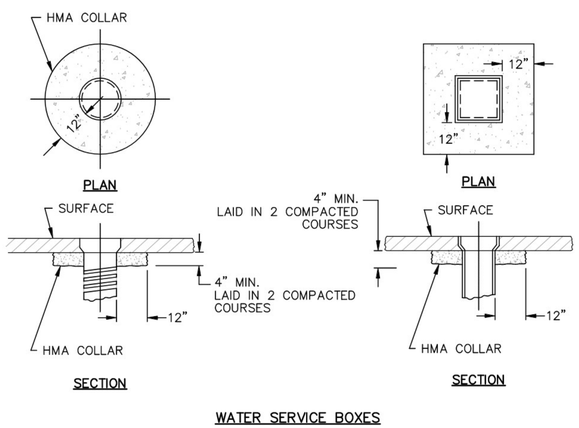


* THIS DIMENSION VARIES WITH THE THICKNESS OF THE TOP COURSE

MONOLITHIC CAPE COD (SHOE) BERM DETAIL

N.T.S.





WATER SERVICE BOXES

DETAILS FOR RAISING CASTINGS

N.T.S.

REV.	DATE	DESCRIPTION	BY
1	1/28/26	REVIEW COMMENTS	L.P.B.

MICHAEL J. CARTER CIVIL No. 35907 REGISTERED PROFESSIONAL ENGINEER
01/28/2026

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

DETAILS I

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.

WILMINGTON MASSACHUSETTS

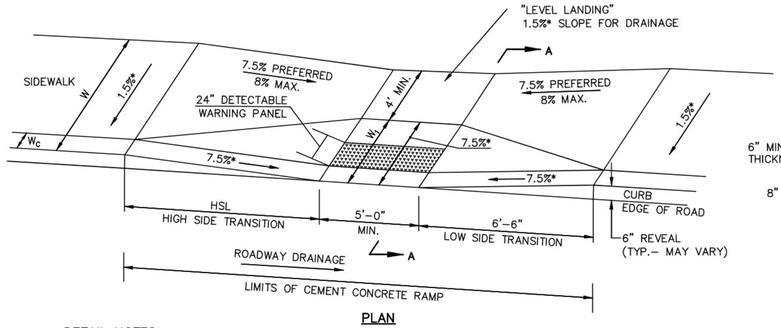
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JOB NO.\FILE NAME: 2507–100%_CD – CIRCLE CT. NOI PLAN SET–EDITED

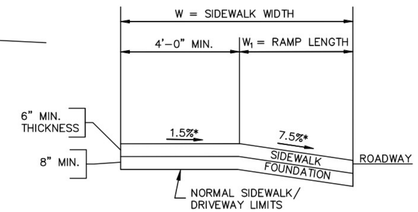
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.

PLAN NO. 7 OF 10

Tab: 7-C DETAILS I Plot Styler: GCG-2018.stb Plotted By: Billy Howe
2507-100%_CD - Circle Ct. NOI Plan Set-EDITED.dwg Saved: 1/29/2026 11:48 AM Plotted: Jan 29, 2026 11:56:am

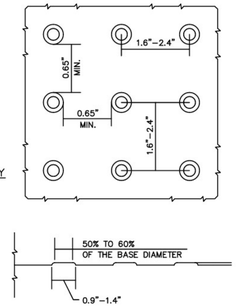


PLAN



* = TOLERANCE FOR CONSTRUCTION ±0.5%
USEABLE SIDEWALK WIDTH PER ABB = W–Wc
RAMP LENGTH, W1 = W – (4'–0") MIN.

SECTION A–A



STAMPED CONCRETE
DETECTABLE WARNING PANEL

N.T.S.

DETAIL NOTES:

1. ALL HANDICAP RAMPS SHALL BE PORTLAND CEMENT CONCRETE 6" THICK.
2. CURBING FOR ALL CONCRETE RAMPS SHALL BE VERTICAL GRANITE CURB (Wc=6") OR SLOPED GRANITE CURB (Wc=0"), SEE PLAN FOR TYPE.
3. THE DIMENSIONS SHOWN AT ROADWAY EDGE ARE FIXED DISTANCES.
4. RAMP CROSS SECTION TO BE SAME AS ADJACENT SIDEWALK; e.g DEPTH OF SURFACES.
5. PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY BROOMING IN A DIRECTION PARALLEL TO THE LENGTH OF THE RAMP.
6. THESE DIMENSIONS ARE SUBJECT TO CHANGE IN THE FIELD IF EXISTING APPURTENANCES OR CONDITIONS WILL MAKE THE RAMP LOCATIONS IMPRACTICAL OR UNSAFE.

ROADWAY PROFILE GRADE %	*HIGH SIDE TRANSITION LENGTH
0	6'–6"
> 0 – 1	7'–8"
> 1 – 2	9'–0"
> 2 – 3	11'–0"
> 3 – 4	14'–0"
> 4	15'–0" MAX.

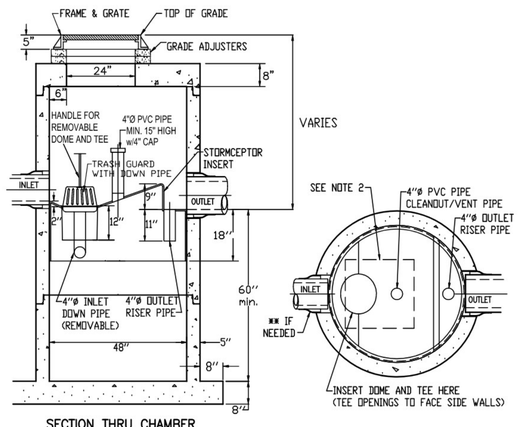
* BASED ON DESIGN SLOPE = 7.5% AND A CURB REVEAL OF 6".

CURB TRANSITION LENGTH FOR WHEELCHAIR RAMPS

WHEELCHAIR RAMP NOTES

1. ROADWAY SIDEWALK CROSS SLOPES, FOR BRICK, CEMENT CONCRETE, AND HMA, AS INDICATED IN THE STANDARD SPECIFICATIONS, WILL BE 1.5%. A CONSTRUCTION TOLERANCE OF ±0.5% IS ACCEPTABLE ON ROADWAY SIDEWALKS. IN ACCORDANCE WITH 521 CMR THE RULES AND REGULATIONS OF THE ARCHITECTURAL ACCESS BOARD (AAB), THE SIDEWALK CROSS SLOPE CANNOT EXCEED 2.0%.
2. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'–3" SHALL BE MAINTAINED PAST ALL OBSTRUCTIONS (UTILITY POLES, SIGNS, SIGNAL FOUNDATIONS AND MASTS, MAILBOXES, ALONG DRIVE OPENINGS, ETC.).
3. THE WHEELCHAIR RAMP SLOPES AND SIDE SLOPES (TRANSITIONS) WILL BE 7.5% WITH A CONSTRUCTION TOLERANCE OF ±0.5%. HOWEVER, THESE SLOPES MAY BE FLATTER WHEN WARRANTED BY SURROUNDING CONDITIONS.
4. IF THE ROAD PROFILE EXCEEDS 4%, THE HIGH SIDE TRANSITION LENGTH UNDER ANY CONDITIONS NEED NOT EXCEED 15'.
5. IN NO CASE WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED ON THE TRAFFIC APPROACH SIDE OF THAT STOP LINE.
6. FIXED OBJECTS (I.E. UTILITY POLES, HYDRANTS, SIGNS, SIGNAL FOUNDATIONS, ETC.) MUST NOT ENCROACH UPON ANY PART OF THE WHEELCHAIR RAMP INCLUDING TRANSITION SLOPES.
7. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP, EXCLUDING CURB TRANSITIONS, TO BE LOCATED OUTSIDE THE CROSSWALK OR PEDESTRIAN TRAVEL PATH. THE WHEELCHAIR RAMP ENTRANCE IS TO BE CENTERED IN THE CROSSWALK OR PEDESTRIAN TRAVEL PATH WHENEVER POSSIBLE.
8. CATCH BASINS WHICH ARE IN THE VICINITY OF A WHEELCHAIR RAMP SHALL BE LOCATED UPGRADE OF THE RAMP ENTRANCE.
9. THE ENTRANCE OF A WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
10. TESTING SURFACE: WHEN TESTING WITH A STRAIGHTEDGE PLACED PARALLEL TO THE LINE OF THE SLOPE THERE SHALL BE NO DEVIATION FROM A TRUE SURFACE IN EXCESS OF 1/4".
11. SIDEWALK CONSTRUCTION SHALL BE IN CONFORMANCE WITH MASS HIGHWAY CONSTRUCTION STANDARDS FOR WHEELCHAIR RAMPS.

TYPICAL WHEELCHAIR RAMP CONDITION
N.T.S.

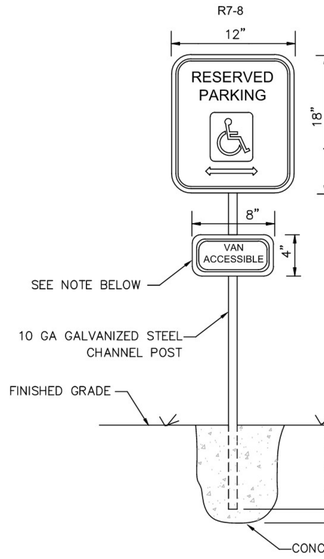


SECTION THRU CHAMBER

SECTION THRU PLAN VIEW

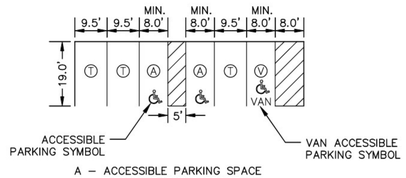
NOTE :
1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE 4"ø CLEANOUT/VENT PIPE AND THE 4"ø INLET DOWN PIPE.
3. THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.

STORMCEPTOR STC 450i DETAIL
N.T.S.



NOTES:
1. INSTALL NEW SIGNS AT HANDICAP PARKING LOCATIONS. EXISTING ACCESSIBLE PARKING SIGNS MAY BE REUSED AT THE DISCRESSION OF THE ENGINEER OR HOUSING AUTHORITY.
2. HANDICAP SPACES ADJACENT TO 8' WIDTH PAINTED AISLES SHALL HAVE THE ADDITIONAL VAN ACCESSIBLE SIGN.
3. SIGNAGE SHALL COMPLY WITH 521 CMR 23.6. SUCH SIGN SHALL BE NO LESS THAN FIVE FEET NOR MORE THAN EIGHT FEET TO THE TOP OF THE SIGN.

HANDICAP SIGN AND FOOTING DETAIL
N.T.S.



A – ACCESSIBLE PARKING SPACE
T – TYPICAL PARKING SPACE
V – VAN ACCESSIBLE PARKING SPACE

NOTES:
1. VAN ACCESSIBLE SPACES MUST HAVE AN 8' WIDE MINIMUM ACCESS AISLE.
2. ALL OTHER ACCESS AISLES SHALL BE 5' WIDE, MINIMUM.
3. TYPICAL PARKING STALLS SHALL BE 9' WIDE UNLESS NOTED ON THE PLANS.
4. ACCESSIBLE SPACES AND AISLES 2% MAX SLOPE IN ANY DIRECTION.
5. RE–NUMBER PARKING SPACES WHERE APPLICABLE.

TYPICAL LINE STRIPING DETAIL
N.T.S.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

DETAILS II

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: NOT TO SCALE DATE: NOVEMBER 12, 2025

REV.	DATE	DESCRIPTION	BY
1	1/28/26	REVIEW COMMENTS	L.P.B.

MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
01/28/2026

JOB NO.\FILE NAME: 2507–100%_CD – CIRCLE CT. NOI PLAN SET–EDITED
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 8 OF 10

Tab: 8-C DETAILS II Plot Style: GCG.ctb Plotted By: Billy Howe

2507-100%_CD - Circle Ct. NOI Plan Set-EDITED.dwg Saved: 1/29/2026 11:48 AM Plotted: Jan 29, 2026 11:56:am

CULTEC RECHARGER® 150XLHD SPECIFICATIONS

GENERAL

CULTEC RECHARGER® 150XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBERS SHALL BE DESIGNED AND TESTED VIA FINITE ELEMENT ANALYSIS IN ACCORDANCE WITH THE ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:
   a. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER.
   b. MAXIMUM PERMANENT (50-YEAR) COVER LOAD.
   c. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD.
3. THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
   a. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75.
   b. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95.
4. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR
5. THE CHAMBER SHALL BE ARCHED IN SHAPE.
6. THE CHAMBER SHALL BE OPEN-BOTTOMED.
7. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
8. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 150XLHD SHALL BE 18.5 INCHES (470 mm) TALL, 33 INCHES (838 mm) WIDE AND 11 FEET (3.35 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 150XLHD SHALL BE 10.25 FEET (3.12 m).
9. MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 12 INCHES (300 mm) HDPE OR 15" (375 mm) SMOOTH-WALL PVC.
10. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV® FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL INSIDE DIMENSIONS OF EACH SIDE PORTAL SHALL BE 8.5 INCHES (216 mm) HIGH BY 12 INCHES (304 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 10.25 INCHES (260 mm).
11. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV® FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (615 mm) LONG.
12. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 150XLHD CHAMBER SHALL BE 2.650 FT³ / FT (0.246 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 150XLHD SHALL BE 27.16 FT3 / UNIT (0.77 m³ / UNIT) - WITHOUT STONE.
13. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
14. THE RECHARGER 150XLHD CHAMBER SHALL HAVE THIRTY DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
15. THE RECHARGER 150XLHD CHAMBER SHALL HAVE 20 CORRUGATIONS.
16. THE ENDWALL OF THE CHAMBER, WHEN PRESENT, SHALL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
17. THE RECHARGER 150XLHDD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE ENDWALLS.
18. THE RECHARGER 150XLSHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 mm) HIGH X 20.5 INCHES (521 mm) WIDE.
19. THE RECHARGER 150XLIHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 mm) HIGH X 20.5 INCHES (521 mm) WIDE.
20. THE RECHARGER 150XLEHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
21. THE HVLV® FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE RECHARGER 150XLHD AND ACT AS CROSS FEED CONNECTIONS.
22. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
23. THE CHAMBER SHALL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
24. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
25. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.
26. MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.65 m).
27. THE INSTALLED CHAMBER SYSTEM SHALL BE STRUCTURALLY DESIGNED TO PROVIDE RESISTANCE TO LIVE LOADS AS DEFINED BY THE AASHTO H-20/HL-93 SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

GENERAL NOTES

CULTEC HVLV® FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL

CULTEC HVLV FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER 150XLHD STORMWATER CHAMBERS.

CHAMBER PARAMETERS

1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
3. THE CHAMBER SHALL BE ARCHED IN SHAPE.
4. THE CHAMBER SHALL BE OPEN-BOTTOMED.
5. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT3 / FT (0.085 m³ / m) - WITHOUT STONE.
7. THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
8. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
9. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE

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

GEOTEXTILE PARAMETERS

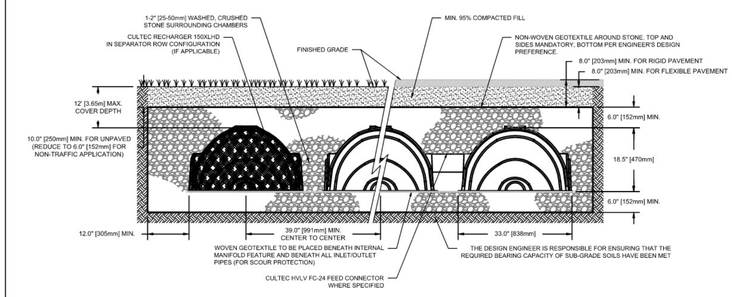
1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).
4. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632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

CULTEC AFAB-HPF™ WOVEN GEOTEXTILE

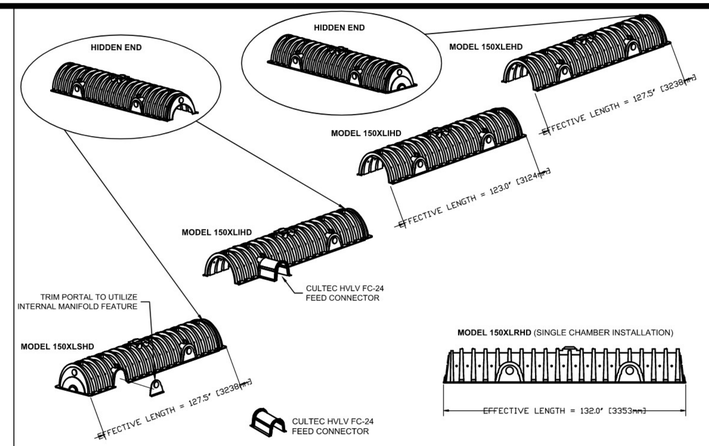
CULTEC AFAB-HPF WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT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

GEOTEXTILE PARAMETERS

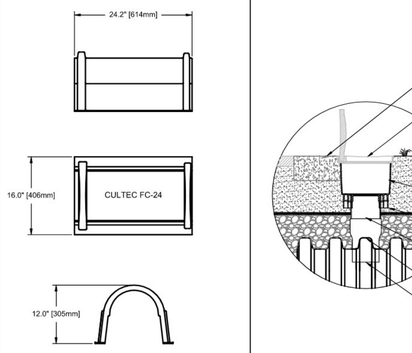
1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 320 X 320 LBS (1,420 X 1,420 N) PER ASTM D4632 TESTING METHOD.
4. THE GEOTEXTILE SHALL HAVE A ELONGATION @ BREAK RESISTANCE OF 15 X 15% PER ASTM D4632 TESTING METHOD.
5. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 3,563 X 3,563 LBS/FT (52 X 52 KN/M) PER ASTM D4595 TESTING METHOD.
6. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,500 LBS (6,670 N) PER ASTM D6241 TESTING METHOD.
7. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 120 X 120 LBS (540 X 540 N) PER ASTM D4533 TESTING METHOD.
8. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 30 US STD. SIEVE (0.60 MM) PER ASTM D4751 TESTING METHOD.
9. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.2 SEC-1 PER ASTM D4491 TESTING METHOD.
10. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 22 GPM/FT2 (900 LPM/M2) PER ASTM D4491 TESTING METHOD.
11. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 70% @ 500 HRS. PER ASTM D4355 TESTING METHOD.



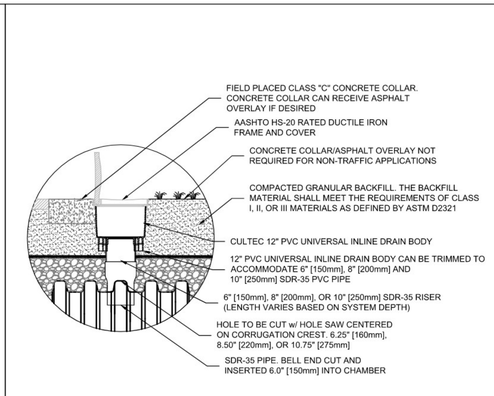
CULTEC RECHARGER 150XLHD CROSS SECTION



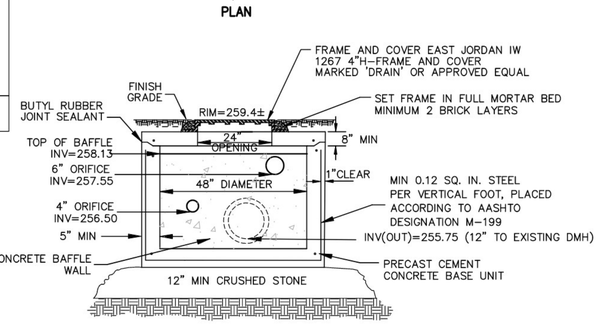
CULTEC RECHARGER 150XLHD HEAVY DUTY TYPICAL INTERLOCK



CULTEC HVLV FC-24 FEED CONNECTOR THREE VIEW



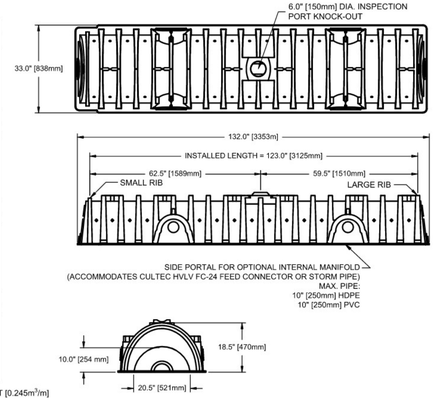
OPTIONAL CULTEC INSPECTION PORT - ZOOM DETAIL



PRECAST CONCRETE OUTLET CONTROL STRUCTURE (OCS-1)

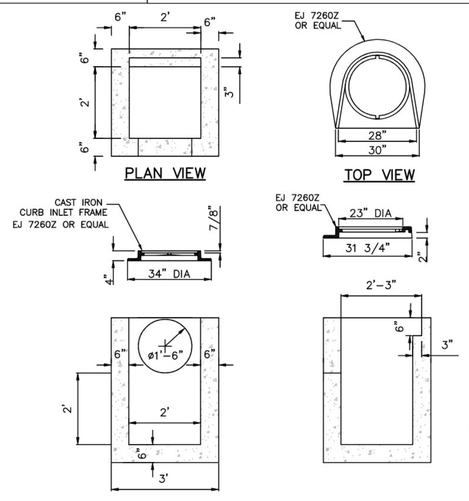
N.T.S.

MODEL 150XLRHD STAND ALONE	
SMALL RIB	LARGE RIB
MODEL 150XLSHD STARTER	
SMALL RIB	LARGE RIB
MODEL 150XLIHD INTERMEDIATE	
SMALL RIB	LARGE RIB
MODEL 150XLEHD END	
SMALL RIB	LARGE RIB



CULTEC RECHARGER 150XLHD CHAMBER STORAGE = 2.65 CF/FT [0.245m³/m]
INSTALLED LENGTH ADJUSTMENT = 0.75' [0.23 m]

CULTEC RECHARGER 150XLHD HEAVY DUTY THREE VIEW



24" X 27" CURB INLET WITH 24"H SUMP (MIN.) PRECAST CONCRETE

N.T.S.

NOTES:
1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGNED FOR H-20 LOADING.
3. REINFORCEMENT ASTM A-615 GRADE 60, 1" MIN COVER.
4. SCITUATE COMPAINES OR APPROVED EQUAL.

REV.	DATE	DESCRIPTION	BY
1	1/28/26	REVIEW COMMENTS	L.P.B.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

DETAILS III

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: NOT TO SCALE DATE: NOVEMBER 12, 2025

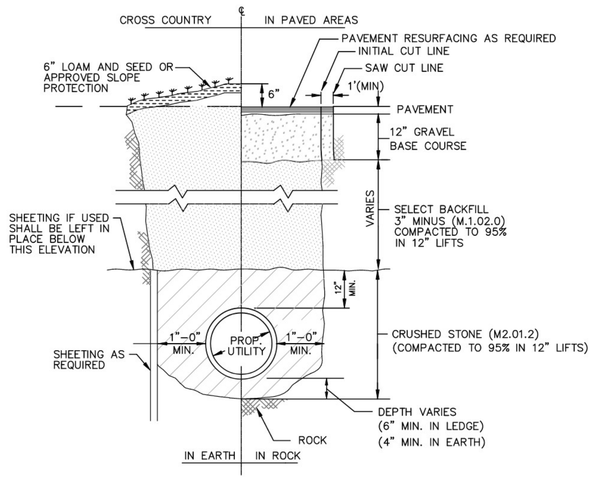
JOB NO.\FILE NAME: 2507-100%_CD - CIRCLE CT. NOI PLAN SET-EDITED

DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.

PLAN NO. 9 OF 10

COMMONWEALTH OF MASSACHUSETTS — MICHAEL J. CARTER — CIVIL — No. 35907 — REGISTERED PROFESSIONAL ENGINEER
01/28/2026

Tab: A-C_DETAILS III Plot Style: GCG-2015.ctb Plotted By: Billy Howe
2507-100%_CD - Circle Ct. NOI Plan Set-EDITED.dwg Saved: 1/29/2026 11:48 AM Plotted: Jan 29, 2026 11:54 am



TYPICAL DRAIN TRENCH DETAIL
N.T.S.

EROSION AND SEDIMENT CONTROL MAINTENANCE

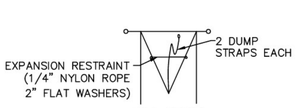
DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED OR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING AS TO PREVENT EROSION.

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF REQUEST.

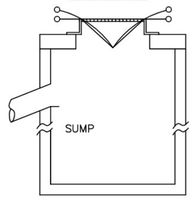
THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FORM ALL DRAINAGE STRUCTURES, AND PIPES AT THE COMPLETION ON CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

TRENCHES WITHIN PAVED ROADWAY TO BE CLOSED WITH 3" TEMPORARY PAVEMENT AT THE END OF EACH WORK DAY.

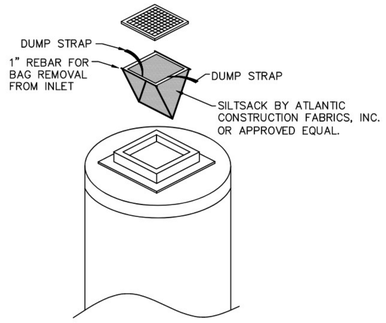
CONTRACTOR TO PERFORM STREET SWEEPING AT THE END OF EACH WORK DAY.



BAG DETAIL

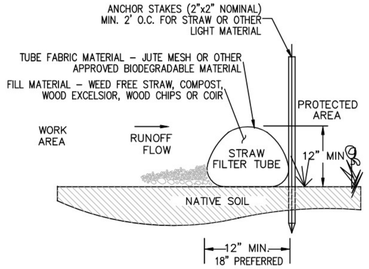


INSTALLATION DETAIL

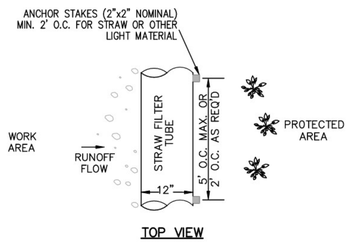


1. SILT SACKS SHALL BE INSTALLED IN ALL CATCH BASINS DURING CONSTRUCTION PERIOD.
2. INSPECTION SHALL BE WEEKLY AND REPAIR/REPLACEMENT MADE PROMPTLY AS NEEDED.
3. SILT SACKS SHALL BE KEPT CLEAN AND FREE OF DEBRIS.

SILTSACK DETAIL
N.T.S.



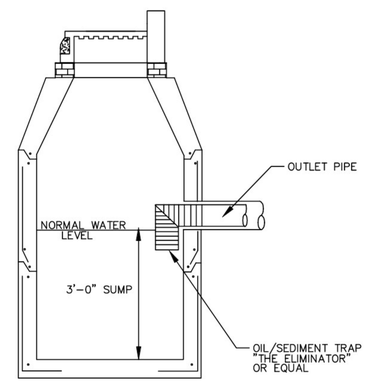
END VIEW



TOP VIEW

NOTES:
1. TUBES MAY BE FILLED ON SITE OR SHIPPED.
2. ENSURE PROPER LOCATION AT SITE FOR EFFECTIVENESS.
3. TUBES SHALL BE PLACED AND STAKED IN PLACE AS REQUIRED TO ENSURE STABILITY AGAINST WATER FLOWS.
4. TUBES FILLED WITH LIGHT MATERIAL SHALL BE STAKED AT A MAXIMUM OF 2 FEET ON CENTER. FOR HEAVIER MATERIAL, 5 FEET ON CENTER.
5. TUBES SHALL BE TAMPED TO ENSURE GOOD CONTACT WITH SOIL.
6. INSPECT AFTER EACH RAINFALL OR DAILY DURING RAINFALL EVENTS. CORRECT ALL DEFICIENCIES IMMEDIATELY.
7. FAILURE INCLUDES BUT IS NOT LIMITED TO WASHOUT, OVERTOPPING, CLOGGING, AND EROSION. IF OVERTOPPING OR WASHOUT OCCURS, NEW FILTER TUBES WITH ADDITIONAL STAKING OR STRAW MATERIAL SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
8. FILTER TUBES SHALL BE REMOVED ONCE SITE WORK IS COMPLETE, SITE IS STABLE, ADEQUATE GROWTH HAS BEEN ESTABLISHED AND AS DIRECTED BY THE ENGINEER. TUBE FABRIC SHALL BE CUT, REMOVED AND DISPOSED OF OFF–SITE BY THE CONTRACTOR AT NO ADDITIONAL COST.

STRAW FILTER TUBE DETAIL



EXISTING CATCH BASIN
NOT TO SCALE

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

DETAILS IV

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: NOT TO SCALE DATE: NOVEMBER 12, 2025

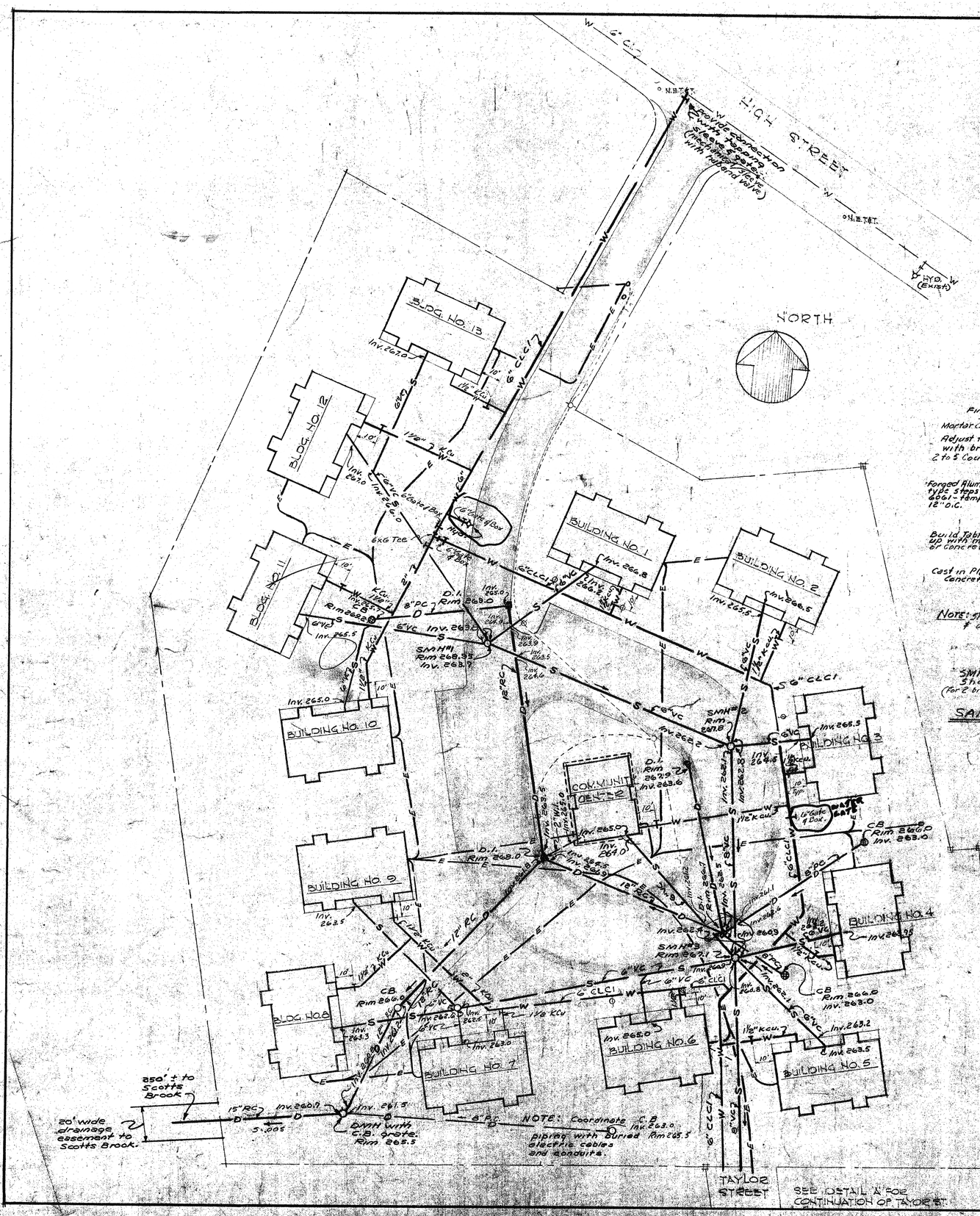
JOB NO.\FILE NAME: 2507–100%_CD – CIRCLE CT. NOI PLAN SET–EDITED
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 10 OF 10

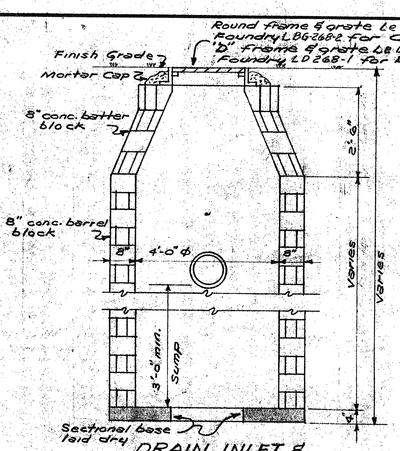
COMMONWEALTH OF MASSACHUSETTS MICHAEL J. CARTER CIVIL No. 35907 REGISTERED PROFESSIONAL ENGINEER
01/28/2026

REV.	DATE	DESCRIPTION	BY
1	1/28/26	REVIEW COMMENTS	L.P.B.

Tab: 10-D_DETAILS IV Plot Style: GCG-2015.ctb Plotted By: Billy Howe

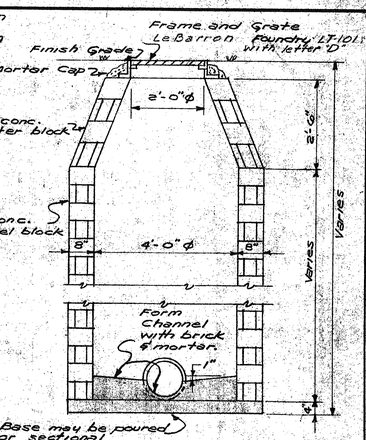
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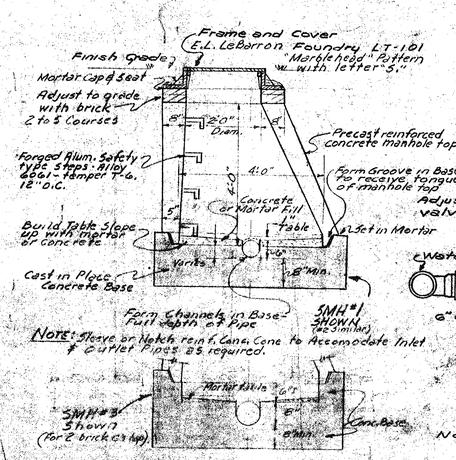
DRAIN INLET & CATCH BASIN DETAIL

Scale: 1/2"=1'-0"



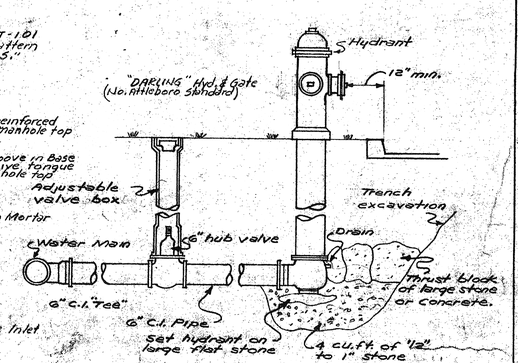
DRAIN MANHOLE DETAIL

Scale: 1/2"=1'-0"



SANITARY MANHOLE DETAIL

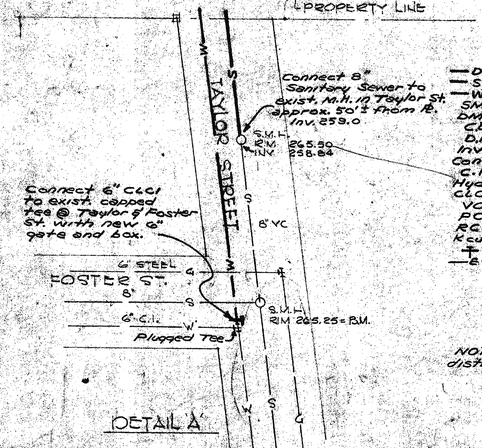
Scale: 1/2"=1'-0"



HYDRANT SETTING

Scale: 1/2"=1'-0"

Note: Thrust block to be placed so as not to obstruct drain outlet.



DETAIL 'A'

LEGEND

—D—	Proposed Drain Line
—S—	Proposed Sanitary Line
—W—	Proposed Water Line
SMH	Sanitary Manhole
DMH	Drain Manhole
C.B.	Catch Basin
D.I.	Drain Inlet
Inv.	Invert
Conc.	Concrete
C.I.	Cast Iron
Hyd.	Hydrant
CLCI	Cement Lined Cast Iron
VC	Vitrified Clay
PC	Plain Concrete
RC	Reinforced Concrete
Kcu.	Type K copper pipe
⊢	Valve and Box
—E—	Indicates underground conduits containing Telephone, Electrical, Fire Alarm, & Television. Refer to Electrical dwgs for layout and descr. of work.

NOTE: For Electrical distribution see Dwg. E-1.

HOUSING FOR THE ELDERLY
NORTH ATTLEBOROUGH, MASS.

NORTH ATTLEBOROUGH HOUSING AUTHORITY

STATE-AIDED PROJ. NO. 667-1

BEACON ARCHITECTURAL ASSOCIATES
8 BEACON STREET BOSTON, MASS.

REGISTERED ARCHITECT No. 1823 COMMONWEALTH OF MASSACHUSETTS

COMM. NO. 217

DATE 31 MARCH 1947

B.A.A. CHK. WDA

CLEVERDON, VARNEY & PIKE
120 TREMONT ST. BOSTON, MASS.

CONSULTING ENGINEER

REGISTERED PROFESSIONAL ENGINEER FLOYD E. BROWN COMMONWEALTH OF MASSACHUSETTS

DWN. TFM. CHK. RED

SCALE 1"=30'-0" DRWG. NO. C3

UTILITY SITE PLAN

PARKING LOT & WALKWAY UPGRADES

ELM TERRACE (667-2)

NORTH ATTLEBOROUGH, MASSACHUSETTS

NORTH ATTLEBOROUGH HOUSING AUTHORITY

EOHLC PROJECT #197161

OWNER/APPLICANT:

NORTH ATTLEBOROUGH HOUSING AUTHORITY (NAHA)
20 SOUTH WASHINGTON STREET
NORTH ATTLEBOROUGH, MA, 02760
PHONE: (508) 695-5142

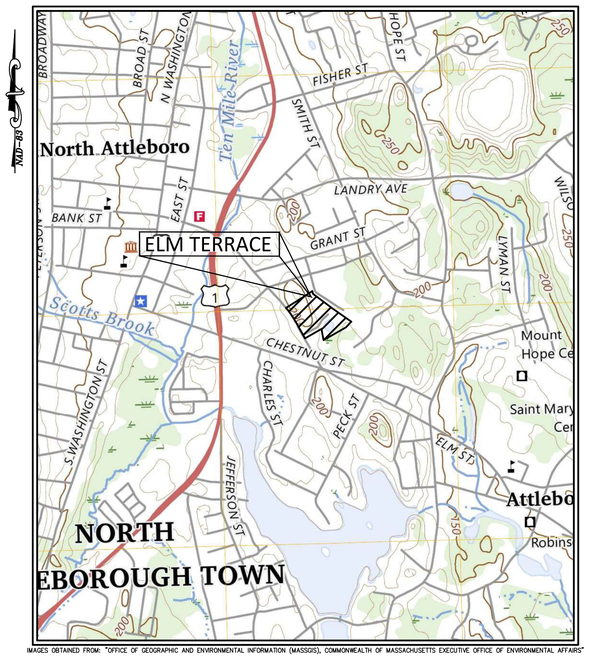
PROJECT ADDRESS:

ELM TERRACE (667-2)
204 ELM STREET
NORTH ATTLEBOROUGH, MA 02760
MAP 11, LOT 1
BOOK 1691, PAGE 296, N.B.C.R.D.

NORTH ATTLEBOROUGH PLANNING BOARD

_____
_____
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_____
_____
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_____

DATE: _____



IMAGES OBTAINED FROM: "OFFICE OF GEOGRAPHIC AND ENVIRONMENTAL INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS"

LOCUS PLAN
SCALE : 1"=1000'±

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	NOTES AND LEGEND
3	EXISTING CONDITIONS PLAN
4	DEMOLITION PLAN
5	SITE PLAN
6	GRADING PLAN
7	DETAILS I
8	DETAILS II

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
38907
REGISTERED PROFESSIONAL ENGINEER

12/18/2025

SITE PLAN REVIEW FOR (NAHA)

NORTH ATTLEBOROUGH HOUSING AUTHORITY

100% CONSTRUCTION DOCUMENTS

GCG ASSOCIATES INC. CONSULTING ENGINEERS WILMINGTON, MASSACHUSETTS

DECEMBER 18, 2025

Tab: COVER Elm Ter Plot Style: GCG 2016.ctb Plotted By: Bisley Howe

2507-100% CD - Elm Terrace.Nol Plan Set.dwg Saved: 12/22/2025 10:24 AM Plotted: Dec 22, 2025 11:22 am

GENERAL NOTES

1. PLANS AND TOPOGRAPHIC INFORMATION ARE PREPARED FROM GROUND SURVEY AND DRONE SURVEY PERFORMED BY GCG ASSOCIATES, INC., ON MARCH, 19, APRIL 29, AND OCTOBER 2, 2025.
2. WETLAND DELINEATION WAS PERFORMED BY CHRISTOPHER J. CAPONE ON SEPTEMBER 5, 2025, AND FIELD LOCATED BY THIS OFFICE.
3. ALL LOCATIONS OF SUBSURFACE UTILITIES AND STRUCTURES WERE OBTAINED FROM AVAILABLE UTILITY RECORDS. THE SIZE, TYPE, AND LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL PROPERLY LOCATE THE UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN UTILITY INFORMATION BY CONTACTING DIG SAFE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION AT (811). THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY UTILITY LINE LOCATIONS AS NECESSARY.
4. **THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES ON SITE. THE CONTRACTOR SHALL HIRE A PRIVATE MARKING COMPANY TO LOCATE ONSITE UTILITIES. THE COST TO HIRE THE PRIVATE MARKING COMPANY SHALL BE INCLUDED IN THE CONTRACT PRICE.**
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL STATE OR LOCAL BUILDING PERMITS THAT MAY BE REQUIRED. THE NORTH ATTLEBOROUGH HOUSING AUTHORITY SHALL PAY FOR ALL PERMITS.
6. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A CONSTRUCTION SCHEDULE DELINEATING THE SEQUENCE OF WORK AND ESTIMATED TIME OF COMPLETION OF EACH SEGMENT OF WORK, PRIOR TO THE COMMENCEMENT OF WORK.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ALL WORK INCLUDED UNDER THIS CONTRACT. THE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SAFETY BARRIERS, WARNING FLASHERS, ETC., AS REQUIRED BY THE CONDUCT OF THE WORK FOR THE PROTECTION OF WORKERS AND NON-WORKERS ALIKE. THE CONTRACTOR'S ATTENTION IS DIRECTED TO OSHA REQUIREMENTS.
8. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS TRAFFIC FLOW DURING CONSTRUCTION SATISFACTORY TO THE ENGINEER AND THE NORTH ATTLEBOROUGH HOUSING AUTHORITY. ACCESS TO ALL EXISTING RESIDENCES SHALL BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION BY THE CONTRACTOR. ACCESS TO ALL EXISTING RESIDENCES SHALL BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE PARKING LOT DURING CONSTRUCTION FOR ALL RESIDENTS.
9. NO EQUIPMENT SHALL BE ALLOWED TO BE PARKED ON THE ROAD WHEN NOT IN USE. MATERIALS SHALL NOT BE STOCKPILED ON THE ROAD OR IN PARKING AREAS. THE CONTRACTOR SHALL CONSULT THE NORTH ATTLEBOROUGH HOUSING AUTHORITY WITH RESPECT TO LOCATION OF STOCKPILED MATERIALS.
10. ALL CONSTRUCTION SIGNAGE SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
11. BUILDING LOCATIONS AS SHOWN ON ADJACENT PROPERTIES, ARE APPROXIMATE AND FOR REFERENCE PURPOSES ONLY.
12. ALL CONSTRUCTION MATERIAL, DEBRIS, ASPHALT, SOIL, ETC. THAT IS REMOVED FROM THE SITE SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. THE COST FOR THIS SHALL BE INCLUDED IN THE CONTRACT PRICE.
13. THE CONTRACTOR SHALL MAINTAIN THE EXISTING SITE DRAINAGE PATTERNS UNLESS OTHERWISE NOTED. ALL GRADING MODIFICATIONS SHALL DIRECT DRAINAGE AWAY FROM ALL EXISTING BUILDINGS AND TOWARDS THE APPROPRIATE AREAS.
14. ALL GRADING MODIFICATIONS SHALL BE GRADUAL SO AS NOT TO CREATE ANY STEEP SLOPES, UNEVEN AREAS, ETC.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY DEBRIS, SEDIMENT OR SILTY WATER FROM ENTERING ANY DRAINAGE SYSTEM, ETC. DURING ALL PHASES OF CONSTRUCTION.
16. DURING CONSTRUCTION THE CONTRACTOR SHALL PROTECT ALL TREES AND ROOTS OF TREES TO REMAIN. ROOTS ON TREES WHICH ARE IMPACTING THE SAFETY OF THE SITE OR AFFECTING WALKWAYS SHALL BE REMOVED BY THE CONTRACTOR.
17. THE CONTRACTOR SHALL REMOVE OVERGROWN VEGETATION ALONG WALKWAYS AND FENCES AS NEEDED. COST SHALL BE INCLUDED IN THE CONTRACT PRICE.
18. DURING THE COURSE OF CONSTRUCTION ANY DAMAGE BY THE CONTRACTOR TO FENCES, GUARD RAILS, PATHS, STAIRS, PAVEMENT AND VEGETATION SHALL BE REPAIRED OR REPLACED AND RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE CONTRACT. ANY REPLACEMENT FENCE AND/OR HANDRAILS SHALL MATCH EXISTING FENCE IN TYPE, FINISH (GALVANIZED AND VINYL CLAD), COLOR AND MESH SIZE.
19. ALL CASTINGS, GATE BOXES, HYDRANTS, LIGHT POLES, ETC. DAMAGED DURING RECONSTRUCTION SHALL BE SUPPLIED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE.
20. SIDEWALKS, WALKWAYS AND DRIVEWAYS THAT ARE DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL ONCE THE WORK IS COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
22. ANY POLICE DETAILS REQUIRED SHALL BE INCLUDED IN THE LUMP SUM PRICE AT NO ADDITIONAL COST TO THE OWNER.
22. THE CONTRACTOR SHALL MAINTAIN ACCESS DURING CONSTRUCTION FOR ALL RESIDENTS. ANY TEMPORARY WALKS/RAMPS REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT. ALL DISTURBED AREA IS TO BE RESTORED WITH LOAM (6" MINIMUM) AND SEED AT NO ADDITIONAL COST TO THE OWNER.
24. THE CONTRACTOR SHALL PROVIDE TEMPORARY RAMPS AND WALKWAYS AS NECESSARY TO RESIDENTS.

PAVING AND RECLAMATION NOTES

1. ALL TRENCHES WILL BE COMPACTED TO ALLOW PROPER SETTLEMENT. ALL TRENCHES WILL BE COMPACTED TO 95% COMPACTION. INCLUDE PAYMENT UNDER ASSOCIATED ITEM.
2. PRIOR TO RECLAIMING, THE CONTRACTOR SHALL COMPLETE ALL EXCAVATING AND PREPARING SUBGRADE REQUIRED TO PULVERIZE THE PAVEMENT AND SHALL LOWER ALL CASTINGS AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
3. BOTH PARKING LOTS AND ROADWAYS SHALL BE RECLAIMED TO A MINIMUM DEPTH OF 16" BELOW THE PROPOSED FINISH GRADE WITHIN THE PROJECT LIMITS. THE EXISTING PAVEMENT SHALL BE PULVERIZED TO THE POINT WHERE NO MATERIAL IS GREATER THAN 3".
4. THE CONTRACTOR SHALL RECLAIM THE ENTIRE WIDTH OF EXISTING MATERIAL. THE LIMITS (EDGE OF PAVEMENT) OF THE EXISTING PAVED SURFACES ARE SHOWN IN THE PLAN VIEW OF THESE CONSTRUCTION DRAWINGS.
5. AFTER PULVERIZING THE PARKING LOT ASPHALT PAVEMENT AND UNDERLYING MATERIALS, THE CONTRACTOR SHALL REMOVE AND STOCKPILE (WINROW) THE RECLAIMED MATERIAL. THE CONTRACTOR SHALL THEN EXCAVATE AND REMOVE THE NECESSARY SUBGRADE MATERIAL IN ORDER TO MEET THE FINAL GRADES OF THE PARKING LOTS. THE CONTRACTOR SHALL THEN PLACE, GRADE AND COMPACT THE EXISTING RECLAIMED BASE COURSE TO A 12" DEPTH AS SHOWN ON THE TYPICAL ROADWAY CROSS SECTION. THE SUBBASE SHALL THEN BE FINE GRADED AND COMPACTED TO ALLOW FOR THE PLACEMENT OF: 2" BASE COURSE INTERMEDIATE COURSE PAVEMENT (SIC-19.0-TABLE 460.10-1) AND 1-1/2" SURFACE COURSE (SSC-9.5-TABLE 460.10-1) AND ACCORDING TO MASSDOT SECTION 460-"HOT MIX ASPHALT PAVEMENT FOR LOCAL STREETS"
6. AFTER PULVERIZING THE EXISTING IN PLACE ASPHALT AND UNDERLYING MATERIAL (TOTAL OF 16" DEPTH), THE CONTRACTOR SHALL PLACE, GRADE AND COMPACT THE EXISTING RECLAIMED BASE COURSE TO A 12" DEPTH AS SHOWN ON THE TYPICAL CROSS SECTION.
7. THE CONTRACTOR SHALL GRADE THE EXISTING RECLAIMED SUBBASE MATERIAL OR GRAVEL BORROW MATERIAL TO ALLOW THE FINAL PAVEMENT SURFACE TO MATCH THE EXISTING EDGE OF PAVEMENT GRADES UNLESS OTHERWISE NOTED. THE RECONSTRUCTION OF THE PARKING LOTS SHALL ALSO BE IN ACCORDANCE WITH THE TYPICAL CROSS SECTION DETAIL SHOWN ON THE PLANS. ANY GRADING MODIFICATIONS SHALL DIRECT DRAINAGE TOWARDS THE APPROPRIATE AREAS.
8. ALL PROPOSED CUTS AND FILLS REQUIRED TO GRADE THE RECLAIMED MATERIAL TO A 12" DEPTH SHALL BE INCLUDED FOR PAYMENT UNDER THE APPROPRIATE ITEM.
9. ALL DRAINAGE AND UTILITY CASTINGS SHALL BE LOWERED OR REMOVED AND PLATED PRIOR TO RECLAIMING THE PARKING LOTS. ALL STRUCTURES MUST BE LOWERED TO A DEPTH OF 6 INCHES BELOW THE BOTTOM OF THE PROPOSED RECLAIMED BASE COURSE.
10. THE CONTRACTOR SHALL FINE GRADE THE EXISTING RECLAIMED BASE COURSE MATERIAL NO MORE THAN 24 HOURS PRIOR TO THE PLACEMENT OF THE 2" BASE COURSE PAVEMENT. ALL GRADING, COMPACTION AND DUST CONTROL ASSOCIATED WITH FINE GRADING TO BE INCLUDED IN THE APPROPRIATE RECLAIM ITEM.
11. THE CONTRACTOR SHALL STOCKPILE AND RETAIN SUFFICIENT SURPLUS SUBBASE AND RECLAIMED PAVEMENT SUBBASE MATERIALS TO USE AS NEEDED IN THE ENTIRE PROJECT AREA. THE COSTS ASSOCIATE WITH THE EXCAVATION, PLACEMENT AND DISPOSAL OF SURPLUS SUBBASE MATERIAL SHALL BE INCLUDED IN THE LUMP SUM PRICE. NO ADDITIONAL PAYMENT FOR PLACEMENT SHALL BE MADE. SURPLUS SUBBASE AND RECLAIMED PAVEMENT SUBBASE MATERIAL SHALL BE USED ONSITE PRIOR TO GRAVEL BORROW MATERIAL. ANY EXCESS RECLAIMED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NO ADDITIONAL PAYMENT FOR DISPOSAL SHALL BE MADE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION TESTING. SEE SPECIFICATION SECTION 02250 FOR COMPACTION CONTROL AND TESTING.
13. PRIOR TO COMPLETING FINAL GRADING OF THE RECLAIMED BASE COURSE, THE ENGINEER SHALL REVIEW GRADES TO DETERMINE THAT SUFFICEINT CROSS SLOPES AND POSITIVE DRAINAGE FLOWS HAVE BEEN MAINTAINED. IF GRADES NEED TO BE ADJUSTED, THE CONTRACTOR SHALL REGRADE AS DIRECTED.
14. CROSS SLOPES AT CATCH BASINS SHALL BE ADJUSTED AS NECESSARY TO ASSURE PROPER DRAINAGE.
15. CONTRACTOR SHALL CONTROL DUST DURING CONSTRUCTION USING CALCIUM CHLORIDE AS NECESSARY.
16. DRAINAGE STRUCTURES SHALL BE ADJUSTED OR REMODELED AS REQUIRED TO MEET GRADE AT NO ADDITIONAL COST TO THE OWNER.
17. SHOULDERS OF DRIVEWAY AND PARKING AREAS SHALL BE GRADED FOR A SMOOTH TRANSITION FROM THE PROPOSED EDGE OF PAVEMENT/CURB TO THE EXISTING GRADE.
18. ALL STRUCTURES SHALL BE LOWERED PRIOR TO RECLAIMING AND THEN RAISED TO FINISHED GRADE ONCE BINDER IS PLACED.

FINE GRADING AND COMPACTING

1. THE CONTRACTOR SHALL FINE GRADE AND COMPACT ALL AREAS IN PREPARATION FOR PAVEMENT, INCLUDING, BUT NOT LIMITED TO THE PARKING LOT AREAS AND TRANSITION DRIVEWAY AREAS. THE CONTRACTOR SHALL ALSO STRAIGHT CUT ALL EXISTING JOINTS AND EDGES IN PREPARATION FOR FINAL PAVEMENT.
2. PAYMENT FOR GRADING AND COMPACTING THE PROPOSED OR RECONSTRUCTED BITUMINOUS CONCRETE SIDEWALKS, RAMPS AND DRIVEWAY APRONS SHALL BE INCLUDED IN THE APPROPRIATE SIDEWALK, APRON, OR RAMP ITEM.
3. PAYMENT FOR FINE GRADING AND COMPACTING THE RECONSTRUCTED BITUMINOUS PARKING LOTS SHALL BE INCLUDED IN THE APPROPRIATE CONTRACT ITEM.

RAISING CASTINGS

1. ALL CASTINGS WILL BE RAISED TO FINISHED GRADE AFTER PLACEMENT OF THE 2" BASE PAVING COURSE, PRIOR TO PLACEMENT OF THE 1-1/2" FINAL PAVING COURSE.

CATCH BASIN & DRAIN LINE CLEANING NOTES

1. ALL ACCUMULATED SEDIMENT, DEBRIS, ORGANIC MATTER, ETC. MUST BE REMOVED FROM CATCH BASINS AND DRAINAGE SYSTEM UPON COMPLETION OF THE PROJECT.
2. SILT SACKS SHALL BE PLACED IN ALL CATCH BASINS AS SHOWN ON THE PLAN DURING CONSTRUCTION PERIOD.
3. ALL SEDIMENT AND DEBRIS REMOVED FROM THE CATCH BASIN OR PIPE LINE SHALL BE PROPERLY HANDLED AND DISPOSED OF AT AN OFF-SITE LOCATION IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.
4. ANY REQUIRED MAINTENANCE OR REPAIRS NOTED DURING THE CLEANING AND INSPECTION SHOULD BE ADDRESSED IMMEDIATELY.
5. THE EXISTING DRAIN LINE SHALL BE JETTED, CLEANED, AND A VIDEO OF THE LINE SHALL BE TAKEN AFTER CLEANING.

CURB AND SIDEWALK NOTES

1. BITUMINOUS CONCRETE SIDEWALKS SHALL BE CONSTRUCTED WITH 1-½" TOP COURSE AND A 1-½" BINDER COURSE, ACCORDING TO THE CONSTRUCTION DETAILS AND AS SPECIFIED.
2. CEMENT CONCRETE WALKS SHALL BE A OF MINIMUM 4" THICK. CEMENT CONCRETE RAMPS AND DRIVEWAY APRONS SHALL BE A MINIMUM OF 6" THICK.
3. CEMENT CONCRETE WALKS, RAMPS, AND DRIVEWAY APRONS SHALL BE MINIMUM 4,000 PSI REINFORCED CEMENT CONCRETE.
4. STOCKPILED EXCESS RECLAIMED GRAVEL SHALL BE USED TO REPLACE OR ADJUST THE GRAVEL BASE FOR THE PROPOSED SIDEWALKS THROUGHOUT THE PROJECT AND SHALL BE INCLUDED IN THE SIDEWALK PRICE.
5. ALL GRANITE CURB SHALL BE OF TYPE VA-4 AS SPECIFIED BY MASSDOT AND SHALL INCLUDE ALL LENGTHS – STRAIGHT, RADIUS, TRANSITION AND CURB INLETS.
6. NEW AND/OR SALVAGED GRANITE CURBING SHALL BE SET IN ACCORDANCE WITH THE CONSTRUCTION DETAIL PROVIDED IN CONTRACT DRAWINGS.
7. NEW AND/OR SALVAGED GRANITE CURBING SHALL BE INSTALLED BY THE CONTRACTOR AT THE NEW PROPOSED GRADES AND EDGE OF ROADWAY LINES AS DEPICTED ON THE PLANS

CONSTRUCTION PHASING

1. THE PROPOSED WORK SHALL BE COMPLETED IN PHASES SO AS TO PROVIDE ADEQUATE PARKING DURING CONSTRUCTION FOR RESIDENTS AND VISITORS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CONSTRUCTION PHASING WITH THE NORTH ATTLEBOROUGH HOUSING AUTHORITY AND THE ENGINEER.

ABBREVIATIONS

APPROX	APPROXIMATE
BB	BITUMINOUS BERM CURB
BC	BOTTOM OF CURB
BLDG	BUILDING
BIT	BITUMINOUS CONCRETE
CB	CATCH BASIN
CC	CONCRETE CURB
CCB	CAPE COD BERM
CIP	CAST-IN-PLACE
CLF	CHAIN LINK FENCE
CONC	CONCRETE
D	DRAIN
DI	DUCTILE IRON
DRV	DRIVEWAY
DMH	DRAIN MANHOLE
E	ELECTRIC
EMH	ELECTRIC MANHOLE
EOC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
EX	EXISTING
HCR	HANDICAPPED RAMP
HYD	HYDRANT
INV	INVERT
LF	LINEAR FEET
LP	LIGHT POLE
MH	MANHOLE
N/F	NOW OR FORMERLY
NO	NUMBER
PROP	PROPOSED
R	RIM
SMH	SEWER MANHOLE
SPEC	SPECIFICATION
SW	SIDEWALK
TC	TOP OF CURB
TH	THRESHOLD
TYP	TYPICAL
UP	UTILITY POLE
VGC	VERTICAL GRANITE CURB

EXISTING LEGEND

EXIST. MAG NAIL BENCHMARK
EXIST. CATCH BASIN
EXIST. ROUND CATCH BASIN
EXIST. DRAIN MANHOLE
EXIST. SEWER MANHOLE
EXIST. MANHOLE
EXIST. ELECTRIC MANHOLE
EXIST. PULL BOX
EXIST. HYDRANT
EXIST. WATER GATE VALVE
EXIST. GAS GATE VALVE
EXIST. BOLLARD
EXIST. LIGHT POST
EXIST. SIGN
EXIST. FLAG POLE
EXIST. SITE BENCH
EXIST. BLDG. (APPROX.)
EXIST. DRAIN LINE (D)
EXIST. SEWER LINE (S)
EXIST. WATER LINE (W)
EXIST. ELECTRIC LINE (E)
EXIST. GAS LINE (G)
EXIST. TELEPHONE LINE (T)
EXIST. PLUMBING (P)
EXIST. CURB
EXIST. CHAIN LINK FENCE
EXIST. VINYL FENCE
EXIST. WALL
EXIST. 5' CONTOURS (140)
EXIST. 1' CONTOURS (138)
EXIST. SPOT GRADE (×41.29)
EXIST. TREE W/ DIAMETER (36")
EXIST. TREE/VEGETATION LINE
APPROX. ABUTTER LOT LINE

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

NOTES AND LEGEND

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

MICHAEL J. CARTER CIVIL No. 35907 REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
12/18/2025

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

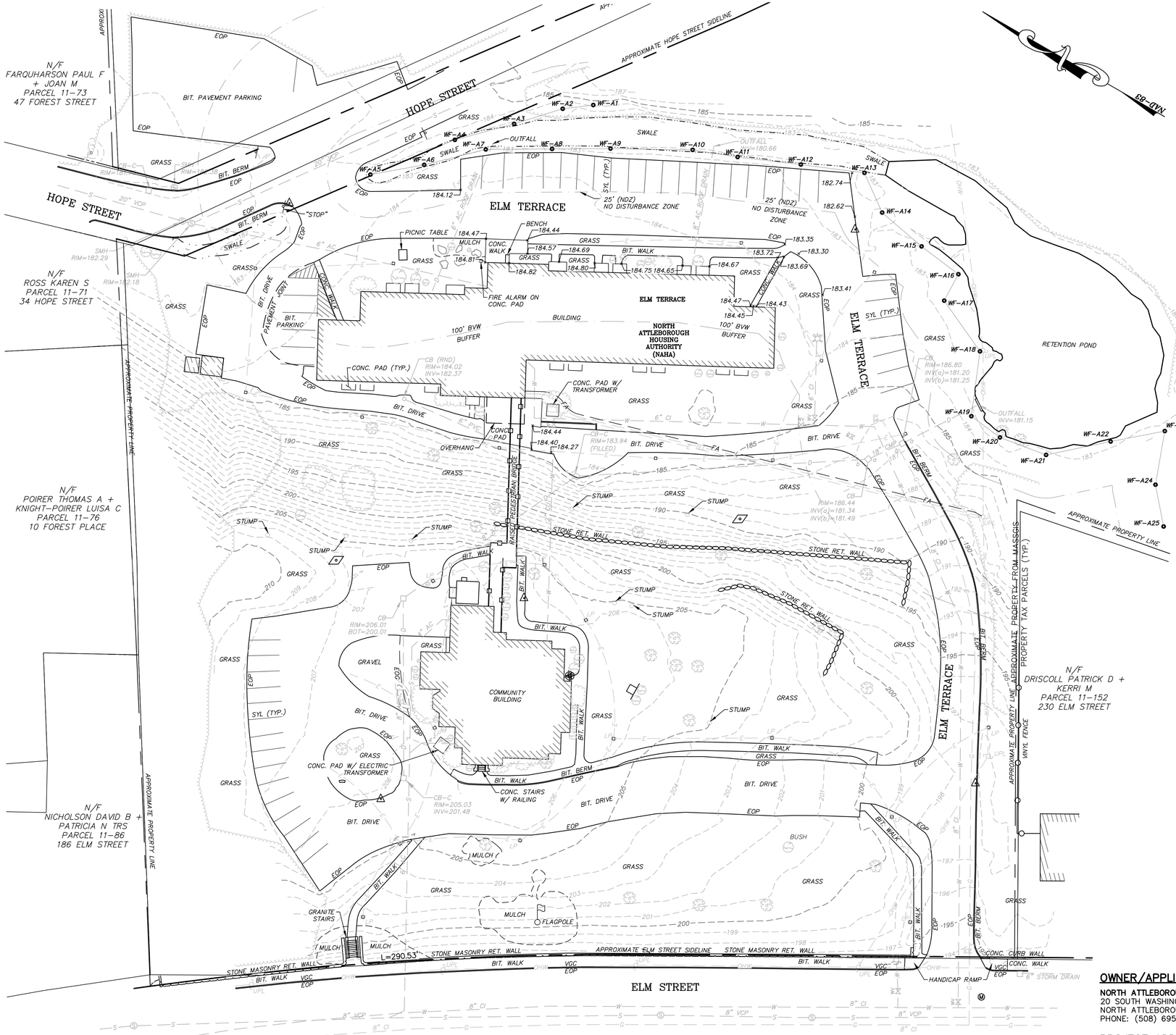
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JOB NO.\FILE NAME: 2507-100%_CD - ELM TERRACE.NOI PLAN SET
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 2 OF 8

Tab: 2-E Notes Plot Style: GCG.2018.ctb Plotted By: Rosey Howe

2507-100%_CD - Elm Terrace.NOI Plan Set.dwg Saved: 12/22/2025 10:24 AM Plotted: Dec 22, 2025 11:22:am

ELM TERRACE HOUSING DEVELOPMENT



PLAN
SCALE: 1" = 30'

NOTES:

1. PROPERTY BOUNDARY BASED ON LAND COURT PLAN LC #31895 A & C.
2. WETLAND DELINEATION PERFORMED BY CHRISTOPHER J. CAPONE ON 9/05/2025, AND FIELD LOCATED BY THIS OFFICE ON 9/29/2025.
3. LOCUS PROPERTY DOES NOT FALL WITHIN THE FEMA NATIONAL FLOOD HAZARD ZONE AE (EL. 252), ACCORDING TO PANEL 25005C0102G, EFFECTIVE DATE 7/16/2015.
4. LOCUS PROPERTY DOES NOT FALL WITHIN AN ESTIMATED HABITATS OF RARE SPECIES NOR PRIORITY HABITATS OF RARE WILDLIFE ACCORDING TO THE MASSACHUSETTS NATURAL HERITAGE & ENDANGERED SPECIES PROGRAM (NHESP).
5. LOCUS PROPERTY DOES NOT CONTAIN ANY CERTIFIED VERNAL POOLS ACCORDING TO THE MASSACHUSETTS NATURAL HERITAGE.
6. LOCUS PROPERTY DOES NOT FALL WITHIN AN A.C.E.C.
7. LOCUS PROPERTY DOES NOT FALL WITHIN A ZONE II.

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

OWNER/APPLICANT:

NORTH ATTLEBOROUGH HOUSING AUTHORITY
20 SOUTH WASHINGTON STREET
NORTH ATTLEBOROUGH, MA 02760
PHONE: (508) 695-5142

PROJECT ADDRESS:

ELM TERRACE (667-2)
ELM STREET & HOPE STREET
NORTH ATTLEBOROUGH, MA 02760

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
12/18/2025

EXISTING CONDITIONS PLAN
ELM TERRACE (667-2)

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

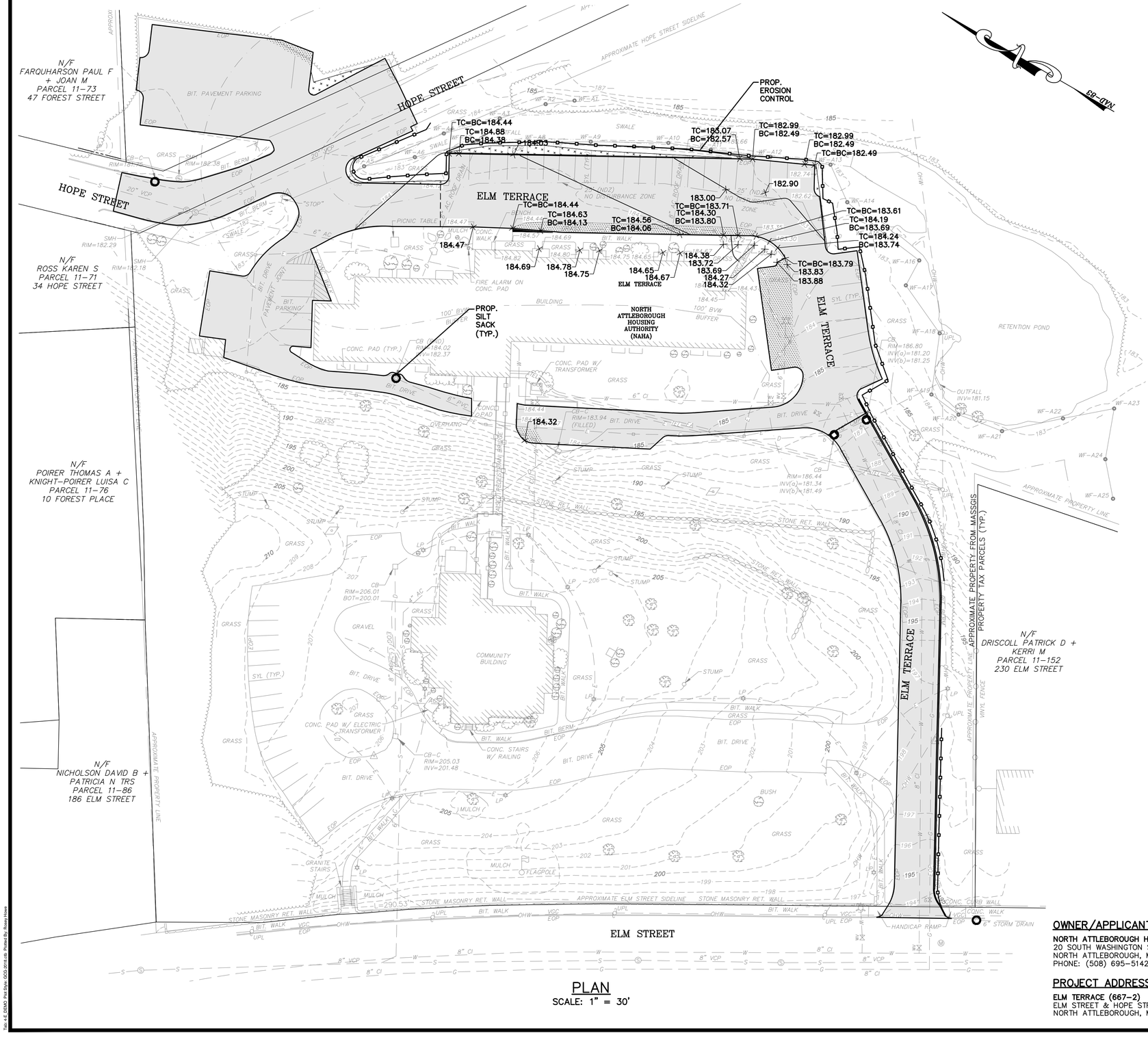
SCALE: 1" = 30' DATE: DECEMBER 18, 2025

JOB NO.\FILE NAME: 2507-100%_CD - ELM TERRACE.NOI PLAN SET
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 3 OF 8

Tab:3-E EXISTING Plot Style: GCG-2018.ctb Plotted By: Rosey Howe

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ELM TERRACE HOUSING DEVELOPMENT



PLAN
SCALE: 1" = 30'

SITE DEMOLITION LEGEND

- RECLAIM EXISTING ROADWAY OR DRIVEWAY TO A DEPTH OF 15-1/2"
- EXCAVATE NEW AREAS TO SUB GRADE: 15-1/2" BELOW FINISHED GRADE FOR ROADWAYS AND PARKING AREAS, 11" BELOW FINISHED GRADE FOR SIDEWALKS

NOTES:

1. INDIVIDUAL BITUMINOUS CONCRETE ACCESS WALKWAYS LESS THAN 5 FEET WIDE SHALL BE REMOVED AND EXCAVATED TO SUBGRADE AT A MINIMUM OF 5 FEET WIDE. ENTRANCE WALKWAYS GREATER THAN 5 FEET WIDE SHALL BE REMOVED AND EXCAVATED TO SUBGRADE TO THE EXISTING WIDTH.
2. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED AND SEEDED.
3. ALL DRAINAGE FRAMES AND GRATES SHALL REMOVED AND PLATED PRIOR TO RECLAMATION.
4. ALL DRAINAGE STRUCTURES SHALL BE CLEANED UPON COMPLETION OF WORK.

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

OWNER/APPLICANT:
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PROJECT ADDRESS:
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ELM STREET & HOPE STREET
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COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
12/18/2025

DEMOLITION PLAN
ELM TERRACE (667-2)

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

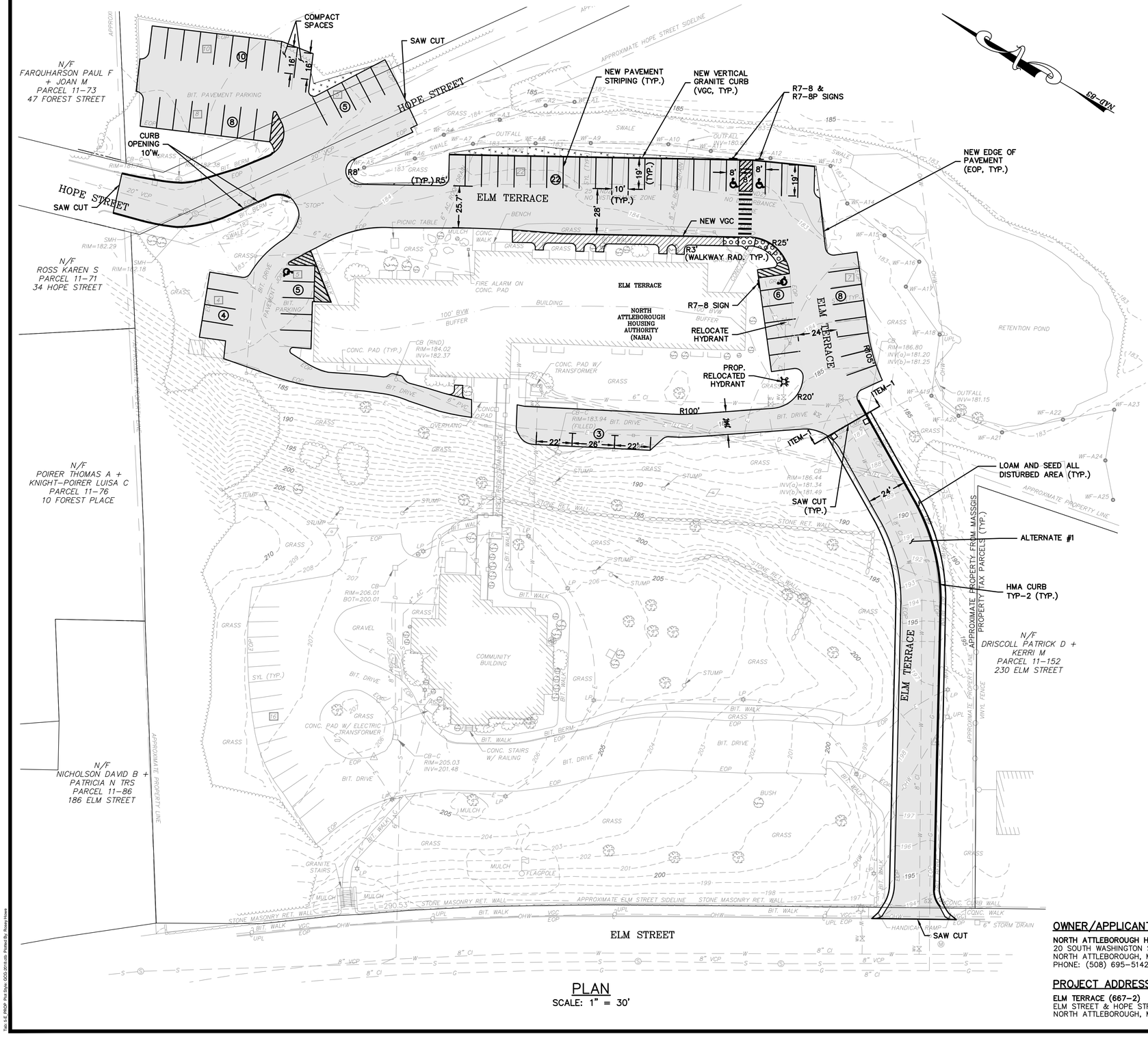
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1" = 30' DATE: DECEMBER 18, 2025

JOB NO.\FILE NAME: 2507-100%_CD - ELM TERRACE.NOI PLAN SET
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 4 OF 8

Tab: 4.E DEMO Plot Style: GCG-2019.ctb Plotted By: Rosey Howe
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ELM TERRACE HOUSING DEVELOPMENT



PLAN
SCALE: 1" = 30'

SITE IMPROVEMENT LEGEND

- ROADWAY & PARKING LOT PAVEMENT, HMA BASE COURSE = 2"; HMA TOP COURSE = 1-1/2"; GRAVEL BASE = 12";
- SIDEWALK/WALKWAY PAVEMENT, HMA BASE COURSE = 1-1/2"; HMA TOP COURSE = 1-1/2"; GRAVEL BASE = 8";
- REMOVE & RESET OR NEW VERTICAL GRANITE CURB
- HOT MIX ASPHALT CURB (CAPE COD BERM)
- (4) EXISTING PARKING SPACE
  EXISTING TOTAL PARKING SPACES=34
  (ADA/AAB SPACE NOT ASSIGNED)
- (4) PROPOSED PARKING SPACE
  PROPOSED TOTAL PARKING SPACES=71
  (57 PARKING SPACES, 10 VISITOR SPACE
  4 ADA/AAB SPACES)

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

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12/18/2025

SITE PLAN
ELM TERRACE (667-2)

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

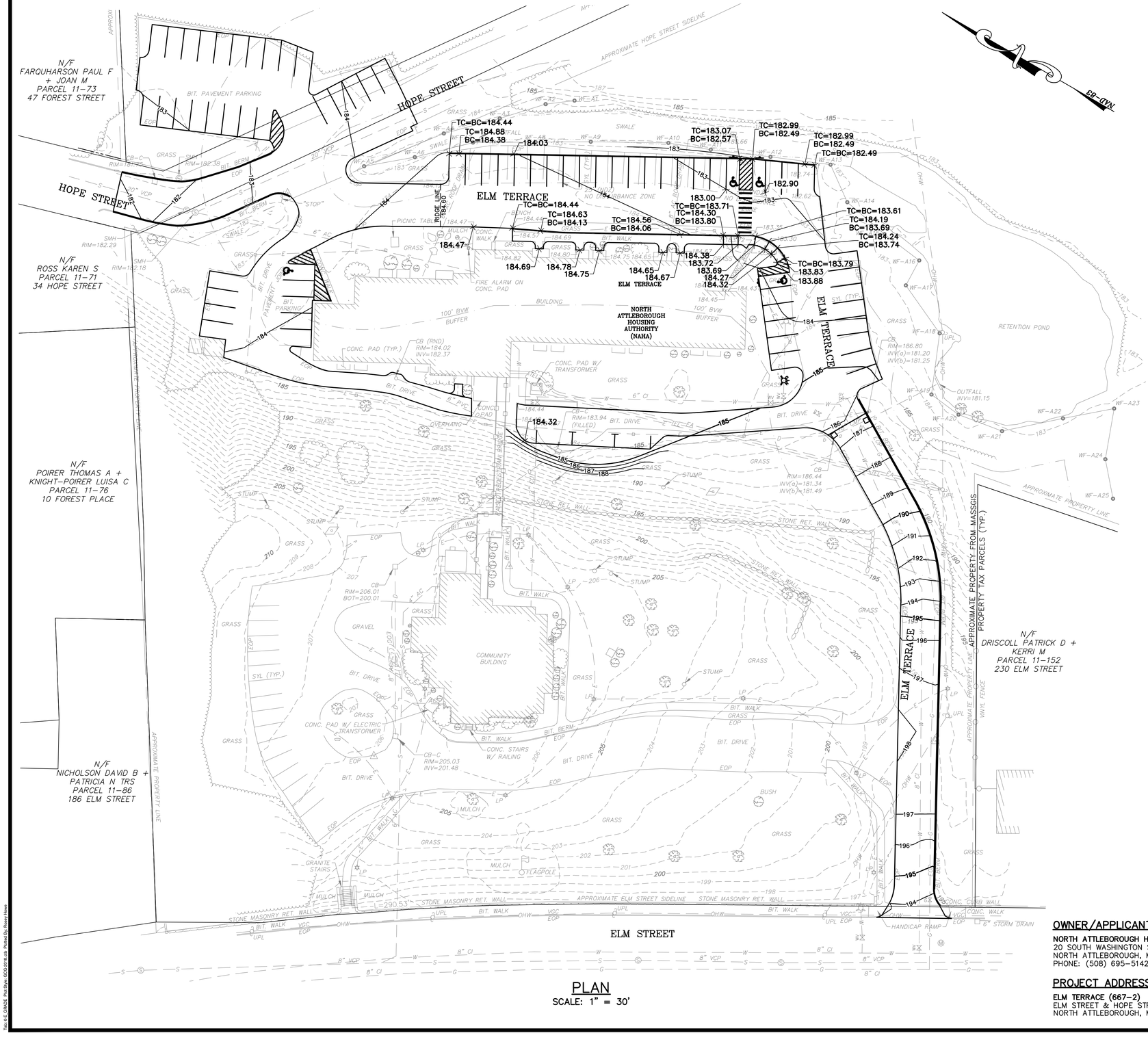
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SCALE: 1" = 30'	DATE: DECEMBER 18, 2025
JOB NO.\FILE NAME: 2507-100%_CD - ELM TERRACE.NOI PLAN SET	DESIGNED BY: W.R.H. DRAWN BY: W.R.H. CHECKED BY: M.J.C.
PLAN NO. 5 OF 8	

Tab: 5-E_PROP Plot Style: GCG_2018.ctb Plotted By: Rosey Howe

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ELM TERRACE HOUSING DEVELOPMENT



PLAN
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

OWNER/APPLICANT:
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COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
12/18/2025

GRADING PLAN
ELM TERRACE (667-2)

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

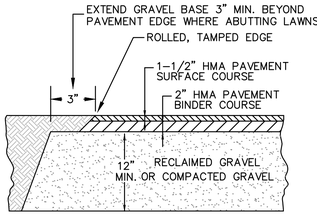
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WILMINGTON MASSACHUSETTS

SCALE: 1" = 30' DATE: DECEMBER 18, 2025

JOB NO.\FILE NAME:	DESIGNED BY: W.R.H.	PLAN NO.
2507-100%_CD - ELM TERRACE.NOI PLAN SET	DRAWN BY: W.R.H.	6 OF 8
	CHECKED BY: M.J.C.	

Tab: 6 E_GRADE Plot Style: GCG-2018.ctb Plotted By: Rosey Howe

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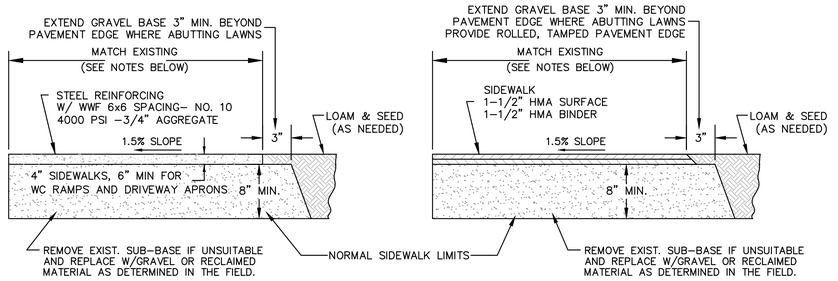


NOTES:

1. PRIOR TO COMPLETING FINAL GRADING OF THE RECLAIMED BASE COURSE THE ENGINEER SHALL REVIEW GRADES TO DETERMINE THAT SUFFICIENT DRAINAGE PATTERNS AND CURB REVEAL ARE MAINTAINED. IF GRADES NEED TO BE ADJUSTED, THE CONTRACTOR SHALL REGRADE AS DIRECTED. THE COST TO PERFORM THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE.
2. PROVIDE JOINT SEALANT WHERE PAVING ABUTS CURBING, WALLS, STEPS, CASTINGS, ETC.

TYPICAL DRIVEWAY & PARKING PAVEMENT SECTION

N.T.S.



CEMENT CONCRETE

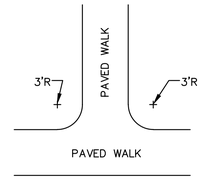
HMA PAVEMENT

NOTES:

1. GRAVEL IN AREAS OF EXISTING SIDEWALKS WHICH ARE BEING REMOVED OR REPLACED IN THE SAME LOCATION SHALL BE REGRADED AND SUPPLEMENTAL GRAVEL ADDED. ADDITIONAL GRAVEL REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE.
2. EXCAVATION AND PLACEMENT OF GRAVEL REQUIRED FOR NEW SIDEWALKS, WIDENING SIDEWALKS AND PAVED AREA SHALL BE INCLUDED IN THE CONTRACT PRICE. DISPOSAL OF THE EXCAVATED MATERIAL SHALL ALSO BE INCLUDED IN THE CONTRACT PRICE.
3. REMOVAL OF STUMPS AND CUTTING AND DISPOSAL OF ROOTS SHALL BE INCLUDED IN THE CONTRACT COST TO CONSTRUCT WALKWAYS.
4. PROVIDE JOINT SEALANT WHERE PAVING ABUTS CURBING, WALLS, STEPS, CASTINGS, ETC.
5. WHERE WALKWAY ABUT TO CONCRETE STEP, INCREASE GRAVEL GRAVEL BASE TO 18" THICK FOR A MINIMUM OF 18" IN FRONT OF THE STEP.

SIDEWALK DETAIL

N.T.S.

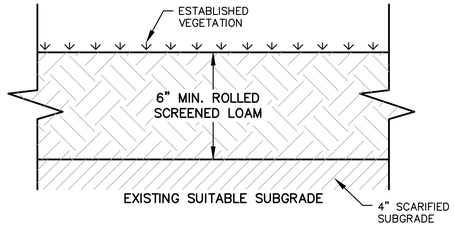


NOTES:

1. ALL WALKWAYS SHALL HAVE A 3' RADIUS AT INTERSECTIONS.

TYPICAL PAVED WALKWAY INTERSECTION DETAIL

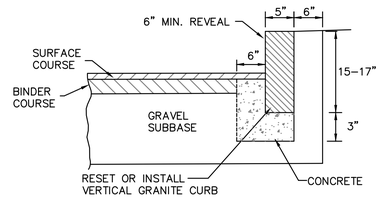
N.T.S.



1. ALL DISTURBED AREAS TO BE LOAMED WITH A MINIMUM OF 6–INCHES OF SCREENED LOAM IN ACCORDANCE WITH MASSACHUSETTS HIGHWAY DEPARTMENT (MHD) STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES SECTION 751. LOAM MATERIAL SHALL MEET MHD M1.05.0 MATERIAL SOURCE AND IN–PLACE LABORATORY ANALYTICAL TESTING OF LOAM FOR COMPLIANCE WITH M1.05.0 MAY BE REQUIRED BY THE OWNER PRIOR TO PLACEMENT AND FINAL ACCEPTANCE.
2. AFTER PLACEMENT, ROLLING AND RAKING OF THE SCREENED TOPSOIL, SEEDING AND FERTILIZING OF THE TOP SOIL SHALL BE IN ACCORDANCE WITH MHD STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES SECTION 765. IF NECESSARY, REFERTILIZATION SHALL OCCUR IN ACCORDANCE WITH MHD SECTION 766.
3. MULCHING SHALL BE IN ACCORDANCE WITH MHD SECTION 767, FOR AREAS SPECIFICALLY INDICATED ON THE DRAWINGS, OR AS FIELD CONDITIONS MAY WARRANT.
4. SEED MIX, FERTILIZER AND MULCHING MATERIALS SHALL COMPLY WITH SECTION M6 OF MHD STANDARD SPECIFICATIONS FOR ROADSIDE DEVELOPMENT MATERIALS. SUBMITTAL REQUIREMENTS MAY INCLUDE PRODUCT LABELS OR LABORATORY ANALYTICAL TESTING, AS MAY BE REQUESTED BY THE OWNER OR THEIR AGENTS.

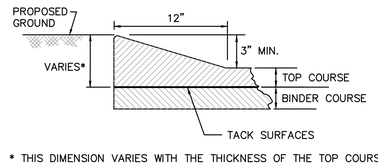
LOAM & SEED

NOT TO SCALE



VERTICAL GRANITE CURB

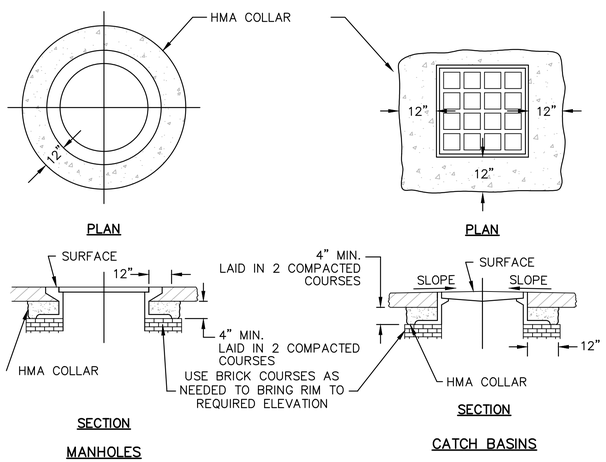
N.T.S.

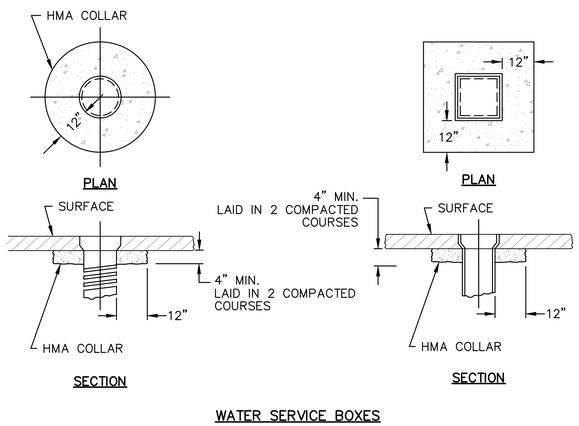


* THIS DIMENSION VARIES WITH THE THICKNESS OF THE TOP COURSE

MONOLITHIC CAPE COD (SHOE) BERM DETAIL

N.T.S.





WATER SERVICE BOXES

DETAILS FOR RAISING CASTINGS

N.T.S.

NORTH ATTLEBOROUGH PLANNING BOARD

DATE:

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

DETAILS I – ELM TERRACE

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

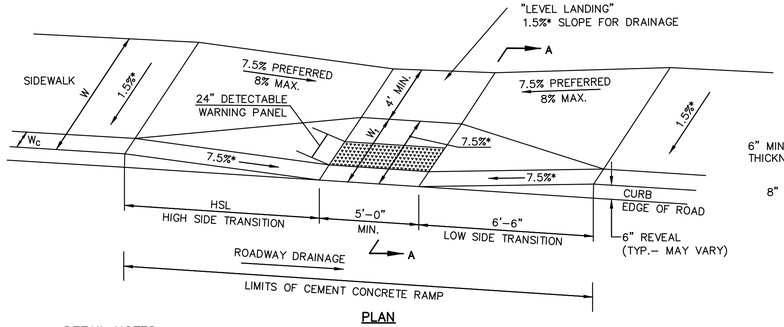
COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
12/18/2025

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

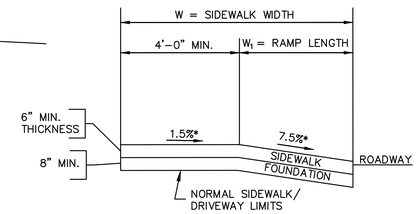
SCALE: NOT TO SCALE	DATE: DECEMBER 18, 2025	
JOB NO.\FILE NAME: 2507–100%_CD – ELM TERRACE.NOI PLAN SET	DESIGNED BY: W.R.H. DRAWN BY: W.R.H. CHECKED BY: M.J.C.	PLAN NO. 7 OF 8

Tab: - F:\E_DETAILS I Plot Style: GCG 2018.ctb Plotted By: Rossy Howe

2507-100%_CD - Elm Terrace.NOI Plan Set.dwg Saved: 12/22/2025 10:24 AM Plotted: Dec 22, 2025 11:20 am

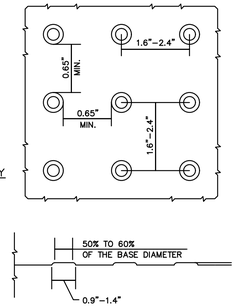


PLAN



* = TOLERANCE FOR CONSTRUCTION ±0.5%
USEABLE SIDEWALK WIDTH PER ABB = W–Wc
RAMP LENGTH, W1 = W – (4'–0") MIN.

SECTION A–A



STAMPED CONCRETE
DETECTABLE WARNING PANEL

N.T.S.

DETAIL NOTES:

1. ALL HANDICAP RAMPS SHALL BE PORTLAND CEMENT CONCRETE 6" THICK.
2. CURBING FOR ALL CONCRETE RAMPS SHALL BE VERTICAL GRANITE CURB (Wc=6") OR SLOPED GRANITE CURB (Wc=0"), SEE PLAN FOR TYPE.
3. THE DIMENSIONS SHOWN AT ROADWAY EDGE ARE FIXED DISTANCES.
4. RAMP CROSS SECTION TO BE SAME AS ADJACENT SIDEWALK; e.g DEPTH OF SURFACES.
5. PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY BROOMING IN A DIRECTION PARALLEL TO THE LENGTH OF THE RAMP.
6. THESE DIMENSIONS ARE SUBJECT TO CHANGE IN THE FIELD IF EXISTING APPURTENANCES OR CONDITIONS WILL MAKE THE RAMP LOCATIONS IMPRACTICAL OR UNSAFE.

ROADWAY PROFILE GRADE %	*HIGH SIDE TRANSITION LENGTH
0	6'–6"
> 0 – 1	7'–8"
> 1 – 2	9'–0"
> 2 – 3	11'–0"
> 3 – 4	14'–0"
> 4	15'–0" MAX.

* BASED ON DESIGN SLOPE = 7.5% AND A CURB REVEAL OF 6".

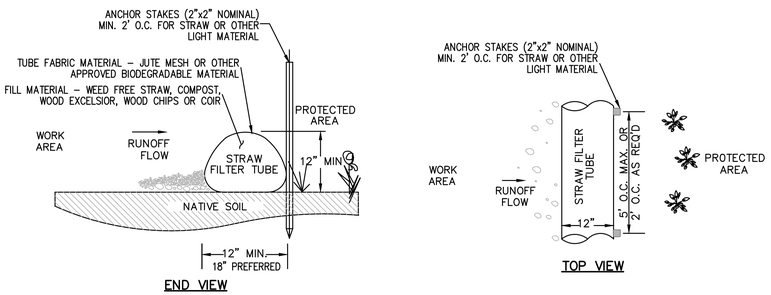
CURB TRANSITION LENGTH
FOR WHEELCHAIR RAMPS

WHEELCHAIR RAMP NOTES

1. ROADWAY SIDEWALK CROSS SLOPES, FOR BRICK, CEMENT CONCRETE, AND HMA, AS INDICATED IN THE STANDARD SPECIFICATIONS, WILL BE 1.5%. A CONSTRUCTION TOLERANCE OF ±0.5% IS ACCEPTABLE ON ROADWAY SIDEWALKS. IN ACCORDANCE WITH 521 CMR THE RULES AND REGULATIONS OF THE ARCHITECTURAL ACCESS BOARD (AAB), THE SIDEWALK CROSS SLOPE CANNOT EXCEED 2.0%.
2. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'–3" SHALL BE MAINTAINED PAST ALL OBSTRUCTIONS (UTILITY POLES, SIGNS, SIGNAL FOUNDATIONS AND MASTS, MAILBOXES, ALONG DRIVE OPENINGS, ETC.).
3. THE WHEELCHAIR RAMP SLOPES AND SIDE SLOPES (TRANSITIONS) WILL BE 7.5% WITH A CONSTRUCTION TOLERANCE OF ±0.5%. HOWEVER, THESE SLOPES MAY BE FLATTER WHEN WARRANTED BY SURROUNDING CONDITIONS.
4. IF THE ROAD PROFILE EXCEEDS 4%, THE HIGH SIDE TRANSITION LENGTH UNDER ANY CONDITIONS NEED NOT EXCEED 15'.
5. IN NO CASE WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED ON THE TRAFFIC APPROACH SIDE OF THAT STOP LINE.
6. FIXED OBJECTS (I.E. UTILITY POLES, HYDRANTS, SIGNS, SIGNAL FOUNDATIONS, ETC.) MUST NOT ENCROACH UPON ANY PART OF THE WHEELCHAIR RAMP INCLUDING TRANSITION SLOPES.
7. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP, EXCLUDING CURB TRANSITIONS, TO BE LOCATED OUTSIDE THE CROSSWALK OR PEDESTRIAN TRAVEL PATH. THE WHEELCHAIR RAMP ENTRANCE IS TO BE CENTERED IN THE CROSSWALK OR PEDESTRIAN TRAVEL PATH WHENEVER POSSIBLE.
8. CATCH BASINS WHICH ARE IN THE VICINITY OF A WHEELCHAIR RAMP SHALL BE LOCATED UPGRADE OF THE RAMP ENTRANCE.
9. THE ENTRANCE OF A WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
10. TESTING SURFACE: WHEN TESTING WITH A STRAIGHTEDGE PLACED PARALLEL TO THE LINE OF THE SLOPE THERE SHALL BE NO DEVIATION FROM A TRUE SURFACE IN EXCESS OF 1/4".
11. SIDEWALK CONSTRUCTION SHALL BE IN CONFORMANCE WITH MASS HIGHWAY CONSTRUCTION STANDARDS FOR WHEELCHAIR RAMPS.

TYPICAL WHEELCHAIR RAMP CONDITION

N.T.S.



END VIEW

TOP VIEW

NOTES:
1. TUBES MAY BE FILLED ON SITE OR SHIPPED.
2. ENSURE PROPER LOCATION AT SITE FOR EFFECTIVENESS.
3. TUBES SHALL BE PLACED AND STAKED IN PLACE AS REQUIRED TO ENSURE STABILITY AGAINST WATER FLOWS.
4. TUBES FILLED WITH LIGHT MATERIAL SHALL BE STAKED AT A MAXIMUM OF 2 FEET ON CENTER. FOR HEAVIER MATERIAL, 5 FEET ON CENTER.
5. TUBES SHALL BE TAMPED TO ENSURE GOOD CONTACT WITH SOIL.
6. INSPECT AFTER EACH RAINFALL OR DAILY DURING RAINFALL EVENTS. CORRECT ALL DEFICIENCIES IMMEDIATELY.
7. FAILURE INCLUDES BUT IS NOT LIMITED TO WASHOUT, OVERTOPPING, CLOGGING, AND EROSION. IF OVERTOPPING OR WASHOUT OCCURS, NEW FILTER TUBES WITH ADDITIONAL STAKING OR STRAW MATERIAL SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
8. FILTER TUBES SHALL BE REMOVED ONCE SITE WORK IS COMPLETE, SITE IS STABLE, ADEQUATE GROWTH HAS BEEN ESTABLISHED AND AS DIRECTED BY THE ENGINEER. TUBE FABRIC SHALL BE CUT, REMOVED AND DISPOSED OF OFF–SITE BY THE CONTRACTOR AT NO ADDITIONAL COST.

STRAW FILTER TUBE DETAIL

EROSION AND SEDIMENT CONTROL MAINTENANCE

DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED OR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING AS TO PREVENT EROSION.

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF REQUEST.

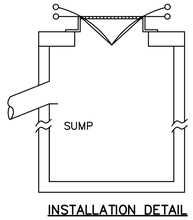
THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FORM ALL DRAINAGE STRUCTURES, AND PIPES AT THE COMPLETION ON CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

TRENCHES WITHIN PAVED ROADWAY TO BE CLOSED WITH 3" TEMPORARY PAVEMENT AT THE END OF EACH WORK DAY.

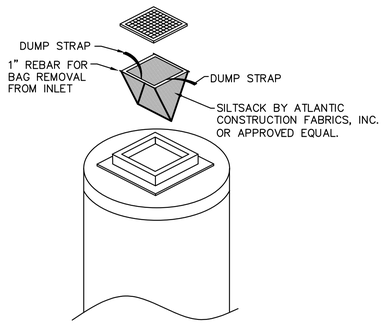
CONTRACTOR TO PERFORM STREET SWEEPING AT THE END OF EACH WORK DAY.



BAG DETAIL



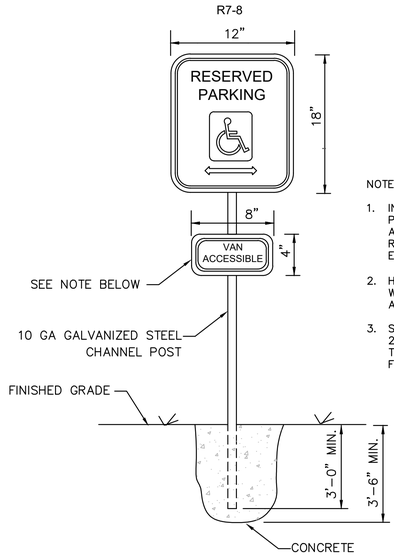
INSTALLATION DETAIL



1. SILT SACKS SHALL BE INSTALLED IN ALL CATCH BASINS DURING CONSTRUCTION PERIOD.
2. INSPECTION SHALL BE WEEKLY AND REPAIR/REPLACEMENT MADE PROMPTLY AS NEEDED.
3. SILT SACKS SHALL BE KEPT CLEAN AND FREE OF DEBRIS.

SILTSACK DETAIL

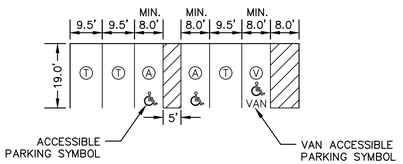
N.T.S.



NOTES:
1. INSTALL NEW SIGNS AT HANDICAP PARKING LOCATIONS. EXISTING ACCESSIBLE PARKING SIGNS MAY BE REUSED AT THE DISCRESSION OF THE ENGINEER OR HOUSING AUTHORITY.
2. HANDICAP SPACES ADJACENT TO 8' WIDTH PAINTED AISLES SHALL HAVE THE ADDITIONAL VAN ACCESSIBLE SIGN.
3. SIGNAGE SHALL COMPLY WITH 521 CMR 23.6. SUCH SIGN SHALL BE NO LESS THAN FIVE FEET NOR MORE THAN EIGHT FEET TO THE TOP OF THE SIGN.

HANDICAP SIGN AND FOOTING DETAIL

N.T.S.



A – ACCESSIBLE PARKING SPACE
T – TYPICAL PARKING SPACE
V – VAN ACCESSIBLE PARKING SPACE

NOTES:
1. VAN ACCESSIBLE SPACES MUST HAVE AN 8' WIDE MINIMUM ACCESS AISLE.
2. ALL OTHER ACCESS AISLES SHALL BE 5' WIDE, MINIMUM.
3. TYPICAL PARKING STALLS SHALL BE 9' WIDE UNLESS NOTED ON THE PLANS.
4. ACCESSIBLE SPACES AND AISLES 2% MAX SLOPE IN ANY DIRECTION.
5. RE–NUMBER PARKING SPACES WHERE APPLICABLE.

TYPICAL LINE STRIPING DETAIL

N.T.S.

NORTH ATTLEBOROUGH PLANNING BOARD

_____

_____

_____

_____

_____

_____

_____

_____

DATE: _____

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

DETAILS II – ELM TERRACE

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER

12/18/2025

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: NOT TO SCALE	DATE: DECEMBER 18, 2025	
JOB NO.\FILE NAME: 2507–100%_CD – ELM TERRACE.NOI PLAN SET	DESIGNED BY: W.R.H. DRAWN BY: W.R.H. CHECKED BY: M.J.C.	PLAN NO. 8 OF 8

Title: 8.E_DETAILS II Plot Style: GCG-2016.ctb Plotted By: Rosey Howe

2507-100%_CD - Elm Terrace.NOI Plan Set.dwg Saved: 12/22/2025 10:24 AM Plotted: Dec 22, 2025 11:27 am

NOTICE OF INTENT
STORMWATER MANAGEMENT REPORT

for

Elm Terrace (667-2), 204 Elm Street
Parking Lot and Walkway Upgrades
North Attleborough Housing Authority

in

North Attleborough, Massachusetts

December 23, 2025

Prepared by
GCG ASSOCIATES, INC.
84 Main Street, Wilmington, MA 01887

TABLE OF CONTENTS

- Application for Site Plan – Form O
- WPA Form 3 – NOTICE OF INTENT

I. PROJECT NARRATIVE

- Project Summary
- Jurisdiction
- Proposed Work
- Massachusetts Stormwater Management Standards
- Checklist for Stormwater Report

II. APPENDICES

- Appendix A: Project Maps
  - Circle Court (667-1), North Attleborough, MA., North Attleborough Housing Authority
    - USGS Site Locus Map
    - FEMA Flood Map Number
      - 25021C0188E & 25021C0169E, effective date July 17, 2012
    - GIS Wetland Map & NHESP Map
- Appendix B: Soil Map & Hydrologic Soil Group (HSG) Classification
  - Web Soil Survey, USDA, Natural Resources Conservation Service
- Stormwater Standards
  - Checklist for Stormwater Report
    - Standard 8: Construction Period Pollution Prevention Plan
    - Standard 9: Long Term Operation & Maintenance Plan
    - Standard 10: Illicit Discharge Statement
- Appendix C: Project Abutter Information
  - Notification to Abutters
  - Affidavit of Service
  - Certified List of Abutters
- Appendix D: Wetland Field Report
  - Wetland Field Report, 34 Circle Court, North Attleborough, MA., report by Christopher J. Capone, Inc., September 06, 2025.

III REFERENCES

- Parking Lot and Walkway Upgrades, Elm Terrace (667-1), North Attleborough, Massachusetts, North Attleborough Housing Authority, EOHLC Project # 197161, (8 sheets). Dated: 12-18-2025, By: GCG Associates, Inc.

Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username:	**GCGTONYMA**
Transaction ID:	**1970672**
Document:	**WPA Form 3 - NOI**
Size of File:	**272.06K**
Status of Transaction:	**Submitted**
Date and Time Created:	**12/29/2025:3:27:18 PM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to “Download a Copy” from the Current Submittals page.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 3 - Notice of Intent
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1970672
City/Town:NORTH ATTLEBOROUGH

A.General Information

1. Project Location:

a. Street Address	204 ELM STREET		
b. City/Town	NORTH ATTLEBOROUGH	c. Zip Code	02760
d. Latitude	41.97852N	e. Longitude	71.32440W
f. Map/Plat #	11	g.Parcel/Lot #	1

2. Applicant:

☐ Individual ☑ Organization

a. First Name		b.Last Name			
c. Organization	NORTH ATTLEBOROUGH HOUSING AUTHORITY				
d. Mailing Address	20 SOUTH WASHINGTON STREET				
e. City/Town	NORTH ATTLEBOROUGH	f. State MA	g. Zip Code	02760	
h. Phone Number	508-695-5142	i. Fax	j. Email	Paula@NorthAttleboroHousing.Org	

3.Property Owner:

☐ more than one owner

a. First Name	PAULA	b. Last Name	MARYVILLE		
c. Organization	NORTH ATTLEBOROUGH HOUSING AUTHORITY				
d. Mailing Address	20 SOUTH WASHINGTON STREET				
e. City/Town	NORTH ATTLEBOROUGH	f.State MA	g. Zip Code	02760	
h. Phone Number	508-695-5142	i. Fax	j.Email	Paula@NorthAttleboroHousing.Org	

4.Representative:

a. First Name	MICHAEL		b. Last Name	CARTER	
c. Organization	GCG ASSOCIATES, INC.				
d. Mailing Address	84 MAIN STREET				
e. City/Town	WILMINGTON	f. State MA	g. Zip Code	01887	
h.Phone Number	978-657-9714	i.Fax	j.Email	mike.carter@gcgassociates.net	

5.Total WPA Fee Paid (Automatically inserted from NOI Wetland Fee Transmittal Form):

a.Total Fee Paid	0.00	b.State Fee Paid	0.00	c.City/Town Fee Paid	0.00

6.General Project Description:

THE PROJECT PROPOSED TO RECLAIM AND REPAVE THE PARKING LOT AND DRIVEWAY AND WIDEN THE WALKWAYS TO 5-FOOT MINIMUM

7a.Project Type:

1.☐ Single Family Home	2. ☐ Residential Subdivision
3.☐ Limited Project Driveway Crossing	4. ☐ Commercial/Industrial
5.☐ Dock/Pier	6. ☐ Utilities
7.☐ Coastal Engineering Structure	8. ☐ Agriculture (eg., cranberries, forestry)
9.☐ Transportation	10. ☑ Other

7b.Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310

CMR 10.53 (inland)?

1. ☐ Yes ☑ No If yes, describe which limited project applies to this project:
2. Limited Project

8.Property recorded at the Registry of Deeds for:

a.County:	b.Certificate:	c.Book:	d.Page:
NORTHERN BRISTOL		1691	296

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

1.Buffer Zone & Resource Area Impacts (temporary & permanent):

☑ This is a Buffer Zone only project - Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.

2.Inland Resource Areas: (See 310 CMR 10.54 - 10.58, if not applicable, go to Section B.3. Coastal Resource Areas)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a.☐ Bank	1. linear feet	2. linear feet
b.☐ Bordering Vegetated Wetland	1. square feet	2. square feet
c.☐ Land under Waterbodies and Waterways	1. Square feet	2. square feet
	3. cubic yards dredged	
d.☐ Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e.☐ Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced

f.☐ Riverfront Area

1. Name of Waterway (if any)

2. Width of Riverfront Area (check one)
☐ 25 ft. - Designated Densely Developed Areas only
☐ 100 ft. - New agricultural projects only
☐ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project
square feet

4. Proposed Alteration of the Riverfront Area:

a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI? ☐ Yes ☐ No

6. Was the lot where the activity is proposed created prior to August 1, 1996? ☐ Yes ☐ No

3.Coastal Resource Areas: (See 310 CMR 10.25 - 10.35)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☐ Designated Port Areas	Indicate size under	Land under the ocean below,
b. ☐ Land Under the Ocean	1. square feet 2. cubic yards dredged	
c. ☐ Barrier Beaches	Indicate size under Coastal Beaches and/or Coatstal Dunes, below	
d. ☐ Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. ☐ Coastal Dunes	1. square feet	2. cubic yards dune nourishment
f. ☐ Coastal Banks	1. linear feet	
g. ☐ Rocky Intertidal Shores	1. square feet	
h. ☐ Salt Marshes	1. square feet	2. sq ft restoration, rehab, crea.
i. ☐ Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. ☐ Land Containing Shellfish	1. square feet	
k. ☐ Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. ☐ Land Subject to Coastal Storm Flowage	1. square feet	

4.Restoration/Enhancement

☐ Restoration/Replacement

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please entered the additional amount here.

a. square feet of BVW b. square feet of Salt Marsh

5.Projects Involves Stream Crossings

☐ Project Involves Streams Crossings

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.

a. number of new stream crossings

b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage of Endangered Species program (NHESP)?

a. ☐ Yes ☑ No

If yes, include proof of mailing or hand delivery of NOI to:
Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

b. Date of map:FROM MAP VIEWER

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18)....

c. Submit Supplemental Information for Endangered Species Review * (Check boxes as they apply)

1.☐ Percentage/acreage of property to be altered:

(a) within Wetland Resource Area — percentage/acreage

(b) outside Resource Area — percentage/acreage

2.☐ Assessor's Map or right-of-way plan of site

3.☐ Project plans for entire project site, including wetland resource areas and areas outside of wetland jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

a.☐ Project description (including description of impacts outside of wetland resource area & buffer zone)

b.☐ Photographs representative of the site

c.☐ MESA filing fee (fee information available at: http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/mesa-fee-schedule.html)
Make check payable to "Natural Heritage & Endangered Species Fund" and **mail to NHESP** at above address

*Projects altering **10 or more acres** of land, also submit:*

d.☐ Vegetation cover type map of site

e.☐ Project plans showing Priority & Estimated Habitat boundaries

d. OR Check One of the following

1.☐ Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/eea/agencies/dfg/dfw/laws-regulations/cmr/321-cmr-1000-massachusetts-endangered-species-act.html#10.14; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2.☐ Separate MESA review ongoing.

a. NHESP Tracking Number

b. Date submitted to NHESP

3. ☐ Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review...

2. For coastal projects only, is any portion of the proposed project located below the mean high waterline or in a fish run?
a. ☑ Not applicable - project is in inland resource area only
b. ☐ Yes ☐ No

If yes, include proof of mailing or hand delivery of NOI to either:

South Shore - Cohasset to Rhode Island, and the Cape & Islands:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 S. Rodney French Blvd
New Bedford, MA 02744

North Shore - Hull to New Hampshire:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930

If yes, it may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional office.

3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

a. ☐ Yes ☑ No

If yes, provide name of ACEC (see instructions to WPA Form 3 or DEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC Name

4. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
a. ☐ Yes ☑ No

5. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L.c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L.c. 130, § 105)?
a. ☐ Yes ☑ No

6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
a. ☑ Yes, Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. ☐ Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol.2, Chapter 3)
2. ☑ A portion of the site constitutes redevelopment
3. ☐ Proprietary BMPs are included in the Stormwater Management System

b. ☐ No, Explain why the project is exempt:
1. ☐ Single Family Home
2. ☐ Emergency Road Repair

3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department by regular mail delivery.

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s). Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
4. List the titles and dates for all plans and other materials submitted with this NOI.

a. Plan Title:	b. Plan Prepared By:	c. Plan Signed/Stamped By:	c. Revised Final Date:	e. Scale:
PARKING LOT & WALKWAY UPGRADES ELM TERRACE (667-2), NORTH ATTLEBOROUGH, MA NORTH ATTLEBOROUGH HOUSING AUTHORITY, EOHLC PROJECT #197161	MICHAEL J. CARTER	P.E., P.L.S.	December 18, 2025	

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. Attach NOI Wetland Fee Transmittal Form.
9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number	3. Check date
4. State Check Number	5. Check date
6. Payer name on check: First Name	7. Payer name on check: Last Name

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

Paula Mayville 1. Signature of Applicant	12/29/2025 2. Date
Paula Mayville 3. Signature of Property Owner(if different)	12/29/2025 4. Date
Michael Carter 5. Signature of Representative (if any)	12/29/2025 6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in Section C, Items 1-3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 3 - Notice of Wetland FeeTransmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1970672
City/Town:NORTH ATTLEBOROUGH

A. Applicant Information

1. Applicant:

a. First Name		b.Last Name			
c. Organization	NORTH ATTLEBOROUGH HOUSING AUTHORITY				
d. Mailing Address	20 SOUTH WASHINGTON STREET				
e. City/Town	NORTH ATTLEBOROUGH	f. State MA		g. Zip Code	02760
h. Phone Number	5086955142	i. Fax		j. Email	Paula@NorthAttleboroHousing.Org

2.Property Owner:(if different)

a. First Name	PAULA	b. Last Name	MARYVILLE		
c. Organization	NORTH ATTLEBOROUGH HOUSING AUTHORITY				
d. Mailing Address	20 SOUTH WASHINGTON STREET				
e. City/Town	NORTH ATTLEBOROUGH	f.State MA		g. Zip Code	02760
h. Phone Number	5086955142	i. Fax		j.Email	Paula@NorthAttleboroHousing.Org

3. Project Location:

a. Street Address	204 ELM STREET	b. City/Town	NORTH ATTLEBOROUGH

Are you exempted from Fee? ☐ (YOU HAVE SELECTED 'YES')

Note: Fee will be exempted if you are one of the following:

- City/Town/County/District
- Municipal Housing Authority
- Indian Tribe Housing Authority
- MBTA

State agencies are only exempt if the fee is less than $100

B. Fees

Activity Type	Activity Number	Activity Fee	RF Multiplier	Sub Total

City/Town share of filling fee	State share of filing fee	Total Project Fee
$0.00	$0.00	$0.00

Wetland WPA – Form 3 – Notice of Intent
Parking Lot & Walkway Upgrades, Elm Terrace (667–2), Map 11 - Lot 1,
North Attleborough Housing Authority (NAHA), North Attleborough, Massachusetts

Date: December 15, 2025

Project Narrative:

Project Summary: This existing North Attleborough Housing Authority's Chapter 667 Housing for Elderly and Disabled facility at Elm Terrace requires replacement of the failing (potholes, settlement, tripping hazard) paved driveway and parking area due to aging. The existing walkway/sidewalk does not meet the current ADA/AAB standards and requires upgrade. The project proposed to reclaim and repave the parking lot and driveway and widen the walkways to 5-foot minimum. The Elm Terrace Housing Project was completed in 1978. The development consists of one mid-rise, elderly, 4-story building on a site of approximately 10.92 acres (Assessors record, Map 11 – Lot 1). There are a total of 72 dwelling units and a combined residential floor area of nearly 70,000 square feet. There is also a 3-story historic building called the Howard Estate, where it is being used as the community center. The Elm Terrace development is on a flat, urban, minimally landscaped site with underground utilities. The site is serviced by public water and sewer.

The western portion of the site soil consists of "(602) - Urban land" as identified by the NRCS Web Soil Survey report, Hydrologic Soil Group (HSG) was not rated; the northeastern portion of the site (east of the 4-story mid-rise building) consists of (705B) - Charlton-Paxton fine sandy loam soil, 0-8 percent slopes, very rocky, (HSG 'B'); and the eastern section of the parcel consists of (705B) - Charlton-Rock outcrop-Paxton complex, 3-15 percent slopes, (HSG 'B'). Based on GCG's experiences with State funded housing authority projects, the site's subbase should be equipped with gravel borrow base or relatively well drained material over sandy loam material (surrounding soil).

The wetland field report (attached) prepared by Christopher Capone, dated September 6, 2025, identified wetland resource area along the eastern rear parking lot and below Hope Street, (identified by wet flags, WF-A1 to #WF-A18). In comparison with the original "Housing for Elderly 667-2, North Attleboro, Mass" site development plans, prepared by Reinhardt Associates, dated 6-30-1977. The wetland delineation aligns with the proposed drainage swale and retention pond shown on the 1977 development plan set. According to the Existing Site Conditions 6-30-1977, the retention pond existed prior to the 1977 pre-development conditions, and has been utilized as a retention pond since, The site was identified in an area of minimal flood hazard zone X, per FIRM Panel 25005C0102G, effective date 7-16-2015; There is no estimated habitats of rare species nor priority habitats of rare wildlife in the vicinity according to the Massachusetts Natural Heritage & Endangered Species program (NHESP). The property does not contain any certified vernal pools, nor does it fall within an A.C.E.C. or Zone II.

There are currently 61 parking spaces on-site serving the 72 dwelling units on-site, (0.85 parking space per dwelling unit) with no designated handicap accessible spaces. This project has proposed additional 6 parking spaces at the southern end of the 4-story building by paving approximately 1,200 s.f. of the lawn area along existing driveway. Addition three (3) parallel parking spaces were created at the end of the existing paved driveway (turnaround) next to the building maintenance shop, where housing authority maintenance crew currently park their vehicles. Four (4) ADA accessible parking spaces will be provided; the upgraded parking lot provides total 68 spaces (including 4 handicap accessible spaces) and an improvement of 7 new parking spaces (0.94 parking spaces per dwelling unit). The 3 assigned maintenance crew spaces were excluded from the parking count. Since the site's runoff discharges to the eastern wetland (a drainage swale constructed since 1978 as shown on the original development plan). GCG on behalf of the NAHA is hereby filing a wetland Notice of Intent. There are additional existing on-site parking spaces serving the (Howard Estate) Community Center to remain and excluded in this project.

The existing walkway in front of the building will be replaced and widened to meet ADA/AAB requirements; The existing grass strip will be paved to relocate the pavement further away from the BVW resource area.

The proposed improvements will have a net increase of 1,600+/- s.f. of additional pavement impervious area. In comparison with the overall reclaim and repave area of 47,000+/- s.f., the increased net impervious area is considered de minimis. Therefore, the project is considered as redevelopment project under Massachusetts Stormwater Handbook (MSH), Standard 7, and subjects to the Maximum Extent Practicable (MEP) requirements.

Jurisdiction:

The site was identified with (Bordering vegetated Wetland) BVW and waterbody (retention pond) resource areas on-site. With existing roof drains and catch basins/drainpipe network discharge directly to the drainage swale and retention basin wetland resource areas. Therefore, a Wetland Notice of Intent filing is required.

This project was built in 1978, prior to the Massachusetts stormwater Handbook guideline published in 1996, but after the MGL 131, Section 40 Wetland Protection Act, which become effective in 1972. Based on the 1977 site plan, the roof runoff drains through two 6" roof drains and discharge to the rip-rap pipe ends and onto the drainage swale and discharges onto the retention pond. The existing pavement runoff either sheet-flow or through catch basins and pipe system and discharges to the existing drainage swale and retention pond. Which appeared to comply with the erosion protection requirements back in 1978.

Proposed Conditions:

This is a "re-development project" per MSH (Massachusetts Stormwater Handbook) Standard #7 – Remedial projects specifically designed to provide improved stormwater management. The proposed improvements are intended to meet the stormwater management requirements to the maximum extent practicable as required by MSH for the redevelopment project. Due to the proximity of the wetland boundary, ledge outcrop surrounding, and existing underground utilities, on-site infiltration BMP is infeasible. The existing drainage swale delineated as BVW wetland was originally designed as drainage convergency channel per the 1977 site development plans. But due to the lack of maintenance and become wetland resource area. The development was built in 1978, and operation and maintenance plans were not required at that time. The existing drainage swale and retention pond (as identified as wetland resource area) remain the main part of the drainage facility and continue collecting stormwater runoff from this development and should be maintained. GCG proposed to create a long-term Operation and Maintenance (O&M) plan as required under the Massachusetts Stormwater Handbook (MSH) Standard #9, to inspect and maintain the entire site's drainage system.

(Stormwater Management and Land Disturbance Regulations - Section 8 D. Redevelopment Project to retain 0.5 inch of runoff requirements). In addition, this is a non-profit public housing project with a limited budget. Retrofits to meet the current stormwater requirements are unfeasible. The site's safety standards and accessibility are being first prioritized as an existing elderly and disabled housing facility. The impervious area created by the new parking spaces is considered new development and is less than 1,200 s.f. and considered de minimis discharges. The proposed pavement over the grass strip in front of the walkway (to relocate parking spaces westward) would provide additional grass surfaced separation between the pavement to existing wetland drainage swale, which is an improvement within the 25' no disturbance zone (NDZ) wetland buffer.

Stormwater Management Requirements. (For Redevelopment Project)

Standard #1 - no new outfall untreated. This project does not create any new discharge point.

Standards #2 – no increase of peak runoff, (maximum extent practicable for re-development project). This project will create approximately 1,200 s.f. of new paved surfaces for new parking spaces. Which is approximately 2.5% of the proposed pavement reconstruction in this project. The runoff should have minimal effect on the overall site drainage.

Standard #3 – Groundwater Recharge, (maximum extent practicable for re-development project). Due to the proximity to the BVW wetland and seasonal high ground water, there is no suitable location for infiltration BMP installation.

Standard #4 – TSS removal - as a minimum, pre-treatment should be provided for redevelopment project. The site is equipped with catch basins to provide runoff pre-treatment. The existing northeastern drainage swale/wetland is also part of the drainage system installed in 1978, which also provides surface runoff pre-treatment prior to discharge to the retention pond, (functioned similar to a wet forebay).

Standard #5 – LUHPPL. Not applicable.

Standard #6 - Zone II. Not applicable.

Standard #7 – This project is a redevelopment project and requires meeting the stormwater management standards to the maximum extent practicable. New parking lot pavement surface runoff is being treated through subsurface infiltration chambers BMP and meeting the MSH standards to the full extent.

Standard #8 - Construction period O&M plan is included in the NOI package, (copy attached).

Standard #9 - Long term O&M Plan is included in the NOI package, (copy attached).

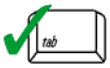
Standard #10 – No Illicit discharge – a Statement is included in the NOI package, (copy attached).

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

A. Introduction

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.[1] This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8[2]
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

[1] The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

[2] For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature

Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

☐ New development

☒ Redevelopment

☐ Mix of New Development and Redevelopment

Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- ☒ No disturbance to any Wetland Resource Areas
- ☐ Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- ☐ Reduced Impervious Area (Redevelopment Only)
- ☒ Minimizing disturbance to existing trees and shrubs
- ☐ LID Site Design Credit Requested:
  - ☐ Credit 1
  - ☐ Credit 2
  - ☐ Credit 3
- ☐ Use of “country drainage” versus curb and gutter conveyance and pipe
- ☐ Bioretention Cells (includes Rain Gardens)
- ☐ Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- ☐ Treebox Filter
- ☐ Water Quality Swale
- ☐ Grass Channel
- ☐ Green Roof
- ☐ Other (describe): _____

Standard 1: No New Untreated Discharges

- ☒ No new untreated discharges
- ☐ Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- ☐ Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.

Checklist for Stormwater Report

Checklist (continued)

Standard 2: Peak Rate Attenuation

☐ Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.

☐ Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.

☐ Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

☐ Soil Analysis provided.

☐ Required Recharge Volume calculation provided.

☐ Required Recharge volume reduced through use of the LID site Design Credits.

☐ Sizing the infiltration, BMPs is based on the following method: Check the method used.

☐ Static ☐ Simple Dynamic ☐ Dynamic Field[1]

☐ Runoff from all impervious areas at the site discharging to the infiltration BMP.

☐ Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.

☐ Recharge BMPs have been sized to infiltrate the Required Recharge Volume.

☐ Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:

☐ Site is comprised solely of C and D soils and/or bedrock at the land surface

☐ M.G.L. c. 21E sites pursuant to 310 CMR 40.0000

☐ Solid Waste Landfill pursuant to 310 CMR 19.000

☒ Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.

☐ Calculations showing that the infiltration BMPs will drain in 72 hours are provided.

☐ Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

[1] 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.

Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

☐ The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.

☐ Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
- Provisions for storing materials and waste products inside or under cover;
- Vehicle washing controls;
- Requirements for routine inspections and maintenance of stormwater BMPs;
- Spill prevention and response plans;
- Provisions for maintenance of lawns, gardens, and other landscaped areas;
- Requirements for storage and use of fertilizers, herbicides, and pesticides;
- Pet waste management provisions;
- Provisions for operation and management of septic systems;
- Provisions for solid waste management;
- Snow disposal and plowing plans relative to Wetland Resource Areas;
- Winter Road Salt and/or Sand Use and Storage restrictions;
- Street sweeping schedules;
- Provisions for prevention of illicit discharges to the stormwater management system;
- Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
- Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
- List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.

☒ A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.

☐ Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:

- ☐ is within the Zone II or Interim Wellhead Protection Area
- ☐ is near or to other critical areas
- ☐ is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
- ☐ involves runoff from land uses with higher potential pollutant loads.

☐ The Required Water Quality Volume is reduced through use of the LID site Design Credits.

☐ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.

Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

☐ The BMP is sized (and calculations provided) based on:

- ☐ The ½" or 1" Water Quality Volume or
- ☐ The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.

☐ The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.

☐ A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

☐ The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.

☐ The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted ***prior to*** the discharge of stormwater to the post-construction stormwater BMPs.

☐ The NPDES Multi-Sector General Permit does ***not*** cover the land use.

☐ LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.

☐ All exposure has been eliminated.

☐ All exposure has ***not*** been eliminated and all BMPs selected are on MassDEP LUHPPL list.

☐ The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

☐ The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.

☐ Critical areas and BMPs are identified in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

☒ The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:

- ☐ Limited Project
- ☐ Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
- ☐ Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
- ☐ Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
- ☐ Bike Path and/or Foot Path
- ☒ Redevelopment Project
- ☐ Redevelopment portion of mix of new and redevelopment.

☒ Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.

☐ The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
- Construction Period Operation and Maintenance Plan;
- Names of Persons or Entity Responsible for Plan Compliance;
- Construction Period Pollution Prevention Measures;
- Erosion and Sedimentation Control Plan Drawings;
- Detail drawings and specifications for erosion control BMPs, including sizing calculations;
- Vegetation Planning;
- Site Development Plan;
- Construction Sequencing Plan;
- Sequencing of Erosion and Sedimentation Controls;
- Operation and Maintenance of Erosion and Sedimentation Controls;
- Inspection Schedule;
- Maintenance Schedule;
- Inspection and Maintenance Log Form.

☒ A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

☐ The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has ***not*** been included in the Stormwater Report but will be submitted ***before*** land disturbance begins.

☒ The project is ***not*** covered by a NPDES Construction General Permit.

☐ The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.

☐ The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

☒ The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:

- ☒ Name of the stormwater management system owners;
- ☒ Party responsible for operation and maintenance;
- ☒ Schedule for implementation of routine and non-routine maintenance tasks;
- ☐ Plan showing the location of all stormwater BMPs maintenance access areas;
- ☐ Description and delineation of public safety features;
- ☐ Estimated operation and maintenance budget; and
- ☐ Operation and Maintenance Log Form.

☐ The responsible party is ***not*** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:

- ☐ A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
- ☐ A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges

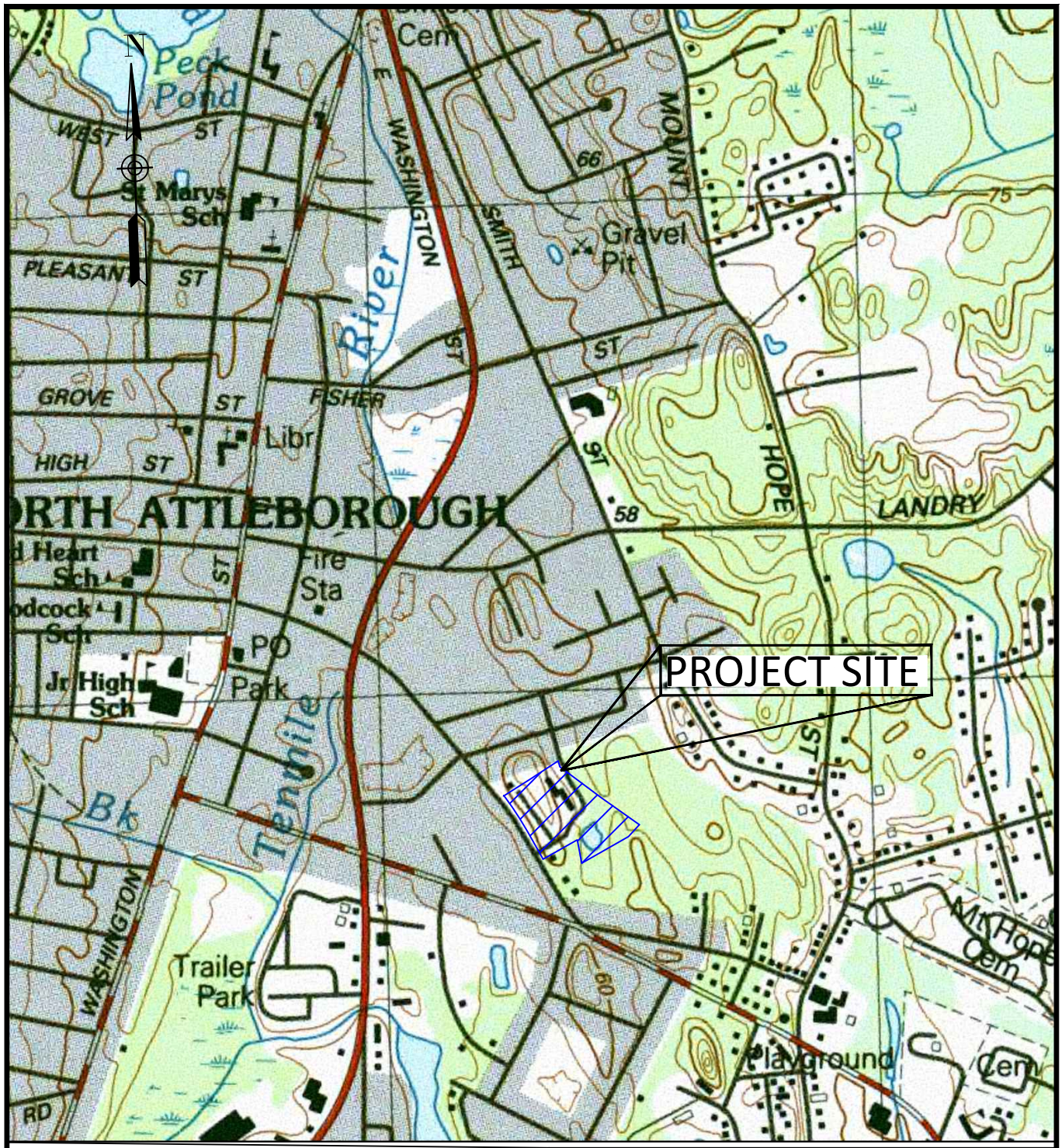
☒ The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;

☒ An Illicit Discharge Compliance Statement is attached;

☐ NO Illicit Discharge Compliance Statement is attached but will be submitted ***prior to*** the discharge of any stormwater to post-construction BMPs.

APPENDIX A:

Project Maps



ELM TERRACE (NAHA)
NORTH ATTLEBOROUGH, MA.
USGS LOCUSMAP

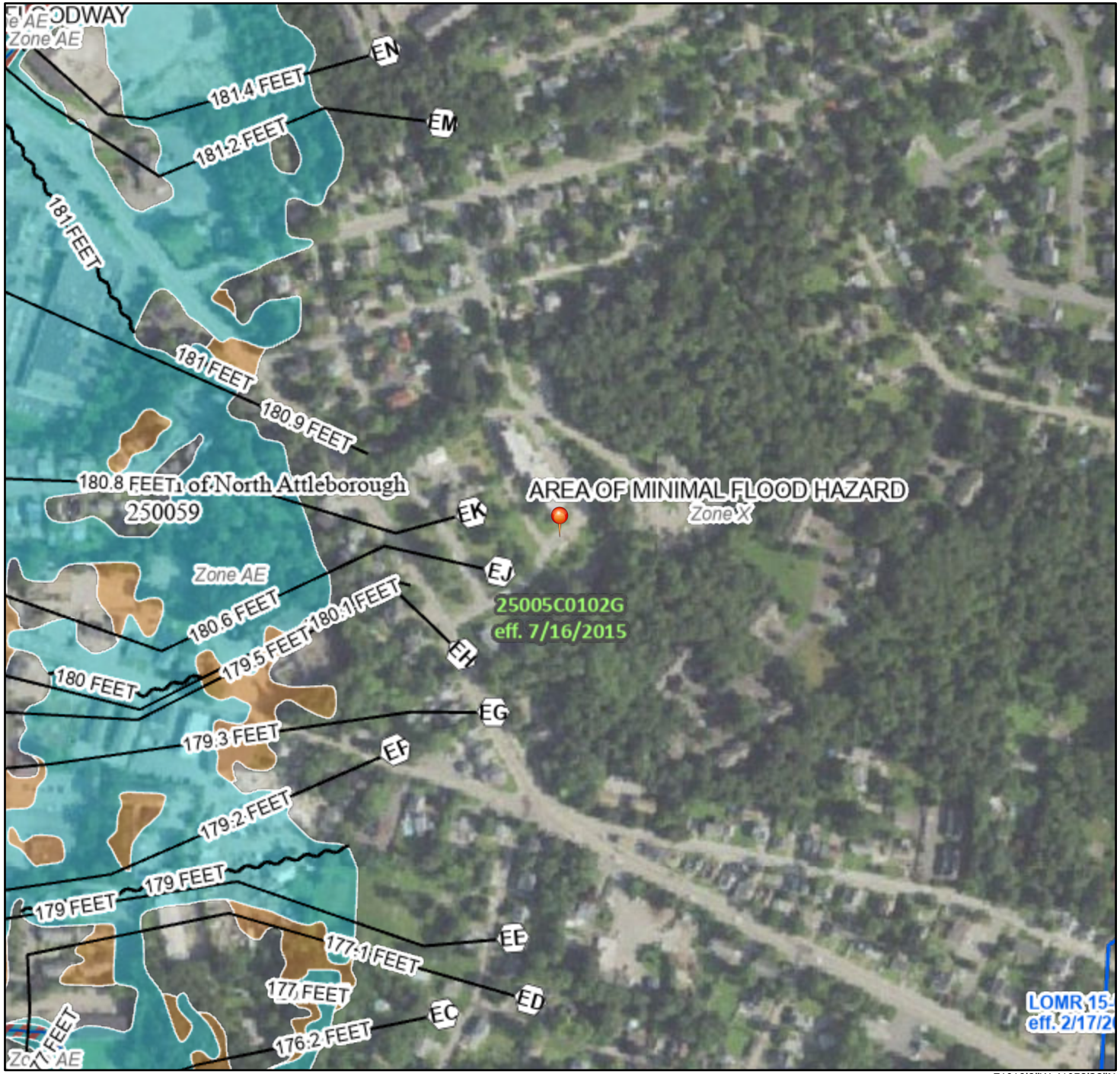
GCG ASSOCIATES, INC.

WILMINGTON MASSACHUSETTS

SCALE:1"=1000'	DATE:10/02/2025	
JOB NO.\FILE NAME: 2507-USGS.DWG	DESIGNED BY: M.J.C. DRAWN BY: M.J.C. CHECKED BY: M.J.C.	PLAN NO. 1 OF 1

National Flood Hazard Layer FIRMette

71°19'46"W 41°58'55"N



71°19'8"W 41°58'28"N

Feet

0 250 500 1,000 1,500 2,000

1:6,000

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
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

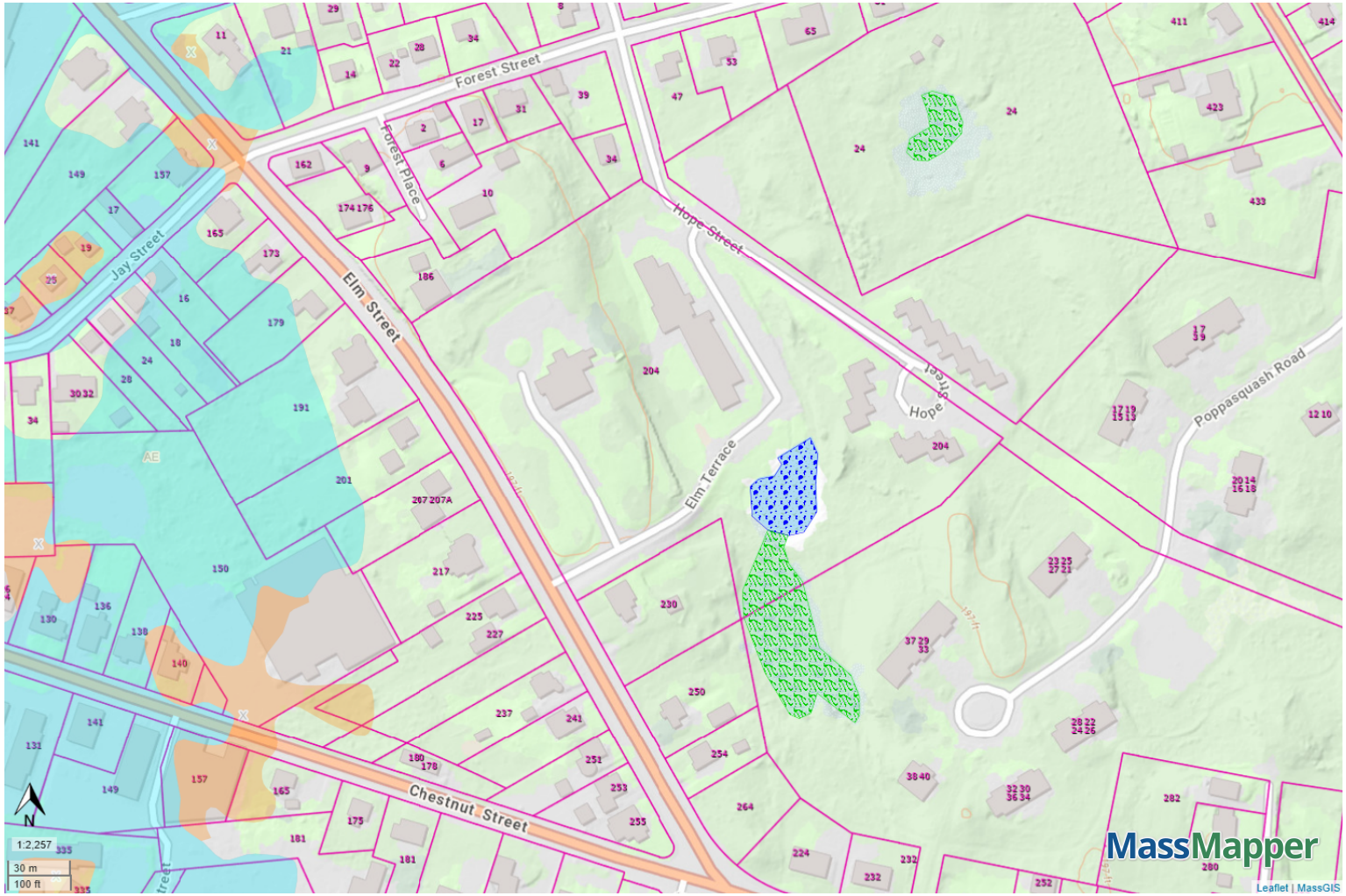
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 10/2/2025 at 3:02 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.

Elm Terrace, N. Attleborough, MA



DEP Wetlands Detailed With Outlines

- Barrier Beach System
- Barrier Beach-Deep Marsh
- Barrier Beach-Wooded Swamp Mixed Trees
- Barrier Beach-Coastal Beach
- Barrier Beach-Coastal Dune
- Barrier Beach-Marsh
- Barrier Beach-Salt Marsh
- Barrier Beach-Shrub Swamp
- Barrier Beach-Wooded Swamp Coniferous
- Barrier Beach-Wooded Swamp Deciduous
- Bog
- Coastal Bank Bluff or Sea Cliff
- Coastal Beach
- Coastal Dune
- Cranberry Bog
- Deep Marsh
- Barrier Beach-Open Water
- Open Water
- Rocky Intertidal Shore
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Tidal Flat
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

FEMA National Flood Hazard Layer Polygons

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area Not Included

NHESP Certified Vernal Pools

NHESP Priority Habitats of Rare Species

NHESP Estimated Habitats of Rare Wildlife

Zone IIs

Property Tax Parcels

Printed Oct 2, 2025

APPENDIX B:

Soil Map & Hydrologic Soil Group (HSG) Classification

Soil Map—Bristol County, Massachusetts, Northern Part
(Elm Terrace, NAHA, N. Attleborough, MA)



Map Scale: 1:2,100 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

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 1:20,000.

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: Bristol County, Massachusetts, Northern Part
Survey Area Data: Version 18, Sep 5, 2025

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

Date(s) aerial images were photographed: Mar 1, 2024—Jul 1, 2024

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
602	Urban land	9.2	76.5%
705B	Charlton-Paxton fine sandy loams, 0 to 8 percent slopes, very rocky	0.5	3.9%
706C	Charlton-Rock outcrop-Paxton complex, 3 to 15 percent slopes	2.4	19.7%
Totals for Area of Interest		**12.0**	**100.0%**

Hydrologic Soil Group—Bristol County, Massachusetts, Northern Part
(Elm Terrace, NAHA, N. Attleborough, MA)



Map Scale: 1:2,100 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

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 1:20,000.

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Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
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Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
602	Urban land		9.2	76.5%
705B	Charlton-Paxton fine sandy loams, 0 to 8 percent slopes, very rocky	B	0.5	3.9%
706C	Charlton-Rock outcrop-Paxton complex, 3 to 15 percent slopes	B	2.4	19.7%
Totals for Area of Interest			**12.0**	**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

APPENDIX C:

Stormwater Standards

STORMWATER AND DRAINAGE OPERATION AND MAINTENANCE PLAN

Name of Project: Parking Lot and Walkway Upgrades, Elm Terrace (667-2)

Location: Elm Terrace, North Attleborough, Massachusetts 02760

Name of Owner/Operator: North Attleborough Housing Authority (NAHA), 20 South Washington Street, North Attleborough, MA 02760

Owner/Operator Signature: _____, Date _____

I. INTRODUCTION

The maintenance program below provides a general plan with specific requirements for stormwater management controls for **Elm Terrace (667-2), North Attleborough Housing Authority.** The program is based on the recommended standards presented in the DEP Stormwater Management Policy Handbook Volume 2, Chapter 2 and Guidelines for Stormwater Management and Controlling Urban Runoff: A Practical Manual for Planning and Designing Urban BMPs, by Thomas R. Schueler, July 1987.

II. RESPONSIBILITY AND IMPLEMENTATION

The property owner is the owner of all components of the drainage system as listed in Section III below, until property ownership is transferred, at which the drainage system becomes the property of the successive owner. The implementation, execution, and financing of this maintenance program and emergency repairs shall be the responsibility of the property owner until property ownership is transferred, at which time maintenance and repairs shall be the responsibility of the successive owner.

III. GENERAL REQUIREMENTS

Construction activities shall conform to the approved site plans and any other regulations or requirements of the Town of North Attleborough. Mulch filter tubes, silt fence, and silt sack shall be installed at the limit of work prior to construction. All sediment controls shall be in place before construction shall begin and shall be properly maintained throughout the course of construction. During construction, silt laden runoff shall not be permitted to enter the nearby wetlands or abutting properties.

All BMPs and sediment controls shall be inspected, by the Applicant, on a weekly basis and within 24 hours of a rain event that generates more than ½" of rain in a 24 hour period. Pavement should be swept at the end of each construction day. Once each BMP is installed it shall be operated and maintained in accordance with the Post Construction Operation & Maintenance Plan.

Should any dewatering activities be required, the Applicant shall make certain that all pumped water is free of sediment prior to discharging to the nearby wetlands. The methods for removing any sediment shall be approved by the Town prior to any dewatering activities commence.

IV. BMP MAINTENANCE

Maintenance of Facilities: The Owner agrees to comply with a minimum maintenance schedule as follows:

A. Street Sweeping: Street sweeping roadways and parking areas twice a year minimum. (early Spring and late Fall)

B. Deep Sump Hooded Catch Basin: Inspect and clean catch basin. Catch basin grate should be inspected and cleaned every 4 times per year and after every major storm. During each inspection, the drains should be inspected for damage and any evidence of blockages. All accumulated trash, sediment, debris, etc., should be removed as necessary. Clean catch basin sump when sediment depth reaches 1/3 of the sump.

C. Grassed Area: Maintain vegetation; mow or cut back if impedes water movement or grass health. Inspect eroded areas repair and reseed as needed.

D. Fertilizer used for property shall be low in Nitrogen and Phosphorous free.

V. GENERAL

Dispose of the collected grit, sediment and debris in accordance with current Town/City State and Federal guidelines and regulations.

REFERENCE PLAN

Parking Lot and Walkway Upgrades, Elm Terrace (667-2), North Attleborough, Massachusetts, North Attleborough Housing Authority, EOHLC Project #197161, prepared by GCG Associates, inc., dated November 12, 2025.

Operation and Maintenance Budget

Inspection: $400 per year

Mowing: $1,000 per year

Cleaning and remove sediment: $1000 per year

Total annual budget = $2,400

Sample Stormwater System Inspection Log/Checklist

INSPECTOR'S NAME &

DATE: NAME & ADDRESS

OF FACILITY:

GENERAL OBSERVATIONS (IS WATER

	Checked? (Y/N)	Maintenance Needed? (Y/N)	Maintenance Completed/ Observations & Remarks
Catch Basins			
CB (Catch Basin)			
CB			
CB			
CB			
CB			
Grassed Area			
Grassed Area			
Street Sweeping			
Roadways and Parking Areas			

Attach pictures, summary, sketches, and notes as appropriate.

Standard #10: All illicit discharges to the stormwater management system are prohibited.

I. STATEMENT

This site as shown on the plan titled “Parking Lot and Walkway Upgrades, Elm Terrace (667-2), North Attleborough, Massachusetts, North Attleborough Housing Authority, EOHLC Project #197161”, prepared by GCG Associates, Inc. and dated November 12, 2025 does not contain any illicit discharges, this was confirmed using visual screening as required by standard 10 of the “Massachusetts Stormwater Handbook” Vol. 1, Ch. 1 page 25. The project proponent, owner, or lessee (in perpetuity) must comply with local, state, and federal regulations for the discharge of illicit discharges from the site. Illicit discharges are discharges that are not entirely comprised of storm water. Notwithstanding the foregoing, an illicit discharge does not include discharges from the following activities:

- Fire fighting
- Water line flushing
- Landscape irrigation
- Uncontaminated ground water
- Potable water sources
- Foundation drains
- Air conditioning condensation
- Footing drains
- Individual car washing
- Water used for street washing and water used to clean residential buildings without detergents

The project proponent, owner, or lessee (in perpetuity) shall adhere to this report on file with the Town of North Attleborough Conservation Commission.

APPENDIX D:

Project Abutter Information

Notification to Abutters

By Hand Delivery, Certified Mail (return receipt requested), or Certificates of Mailing

This is a notification required by law. You are receiving this notification because you have been identified as the owner of land within 100' of another parcel of land for which certain activities are proposed. Those activities require a permit under the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40).

In accordance with the second paragraph of the Massachusetts Wetlands Protection Act, and 310 CMR 10.05(4)(a) of the Wetlands Regulations, you are hereby notified that:

A. A Notice of Intent was filed with the North Attleboro Conservation Commission on December 30, 2025 seeking permission to remove, fill, dredge, or alter an area subject to protection under
M.G.L. c. 131 §40. The following is a description of the proposed activity/activities:

The project consists of reclaim and repave parking lot and driveway at the North Attleborough Housing Authority, Elm Terrace housing development for elderly & disabled, (Chapter 667 housing). Existing walkways to be replaced and widened to meet the current ADA/AAB requirements, additional new walkway connections to improve the accessibility of the facility. Portion of the walkway and roadway improvements are within the 100-feet bordering vegetated wetland buffer and requires to file a Notice of Intent with the Conservation Commission and MassDEP.

B. The name of the applicant is: North Attleborough Housing Authority.

C. The address of the land where the activity is proposed is: Elm Terrace, North Attleborough, Map 11 and Parcel 1.

D. Copies of the Notice of Intent may be examined or obtained at the office of the North Attleboro Conservation Commission, located at 43 S Washington St. The regular business hours of the Commission are Monday-Thursday 8:00-4:30pm and Friday 8:00-noon. The Commission may be reached at (508) 699-0100.

E. Copies of the Notice of Intent may be obtained from the applicant or GCG Associates, Inc. representative by calling GCG Associates, Inc. at (978) 657-9714. An administrative fee may be applied for providing copies of the NOI and plans.

F. Information regarding the date, time, and location of the public hearing regarding the Notice of Intent may be obtained from the North Attleboro Conservation Commission. Notice of the public hearing will be published at least five business days in advance, in The Sun Chronicle.

Notification provided pursuant to the above requirement does not automatically confer standing to the recipient to request Departmental Action for the underlying matter. See 310 CMR 10.05(7)(a)4.

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

(to be submitted to the Massachusetts Department of
Environmental Protection and the Conservation Commission
when filing a Notice of Intent)

I, [Michael J. Carter hereby certify under the pains and penalties of perjury that on [i12/26/2025 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the **DEP Guide to Abutter Notification** date April 8, 1994, in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by North Attleboro Housing Authority with the North Attleboro Conservation Commission on December 30, 2025 for property located at Elm Terrace, Map 11 - Lot 1

The form of the notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.

Michael Carter — 12/26/2025

Signature — Date

TOWN OF NORTH ATTLEBOROUGH
BOARD OF ASSESSORS
43 South Washington Street
North Attleborough, Ma 02760
Phone: (508)-699-0100 Ext. 2514 Fax: (508)-643-3372

John V. Bellissimo, *Chairman*
Paul B. Pinsonnault
Gene Morris

Cheryl Smith
Chief Assessor

CERTIFIED ABUTTERS LIST

Date:	12/29/2025
Location:	204 ELM ST
Map/Lot:	11/1/ 1A
Current Owner of Record (as of Jan. 1, 2025)	N ATTLEBORO HOUSING AUTHORITY
Mailing Address:	HOUSING - ELM TERRACE20 S WASHINGTON ST
	N ATTLEBORO, MA 02760
Board Prepared For:	CONSERVATION
Applicant:	ROSEY HOWE
Phone:	978-657-9714
E-Mail:	RHOWE@GCGASSOCIATES.NET

In accordance with Section 11, Chapter 40A, as amended, we hereby certify that based on the records of this office and to the best of our knowledge and belief, the attached list are the names and addresses of the abutters to the above referenced property.

NORTH ATTLEBOROUGH BOARD OF ASSESSORS

TOWN OF NORTH ATTLEBOROUGH
BOARD OF ASSESSORS
43 South Washington Street
North Attleborough, Ma 02760
Phone: (508)-699-0100 Ext. 2514 Fax: (508)-643-3372

ABUTTERS LISTING
CONSERVATION
12/29/2025

SUBJECT PARCEL: 11/1/ 1A **SUBJECT LOCATION**: 204 ELM ST

N ATTLEBORO HOUSING AUTHORITY
HOUSING - ELM TERRACE
20 S WASHINGTON ST
N ATTLEBORO, MA 02760

Parcel(s)	Owner & Mailing Address	Property Location
11/68/ 69-70	JOHNSON THOMAS E + CHERYL 39 FOREST ST N ATTLEBORO, MA 02760	39 FOREST ST
11/71/ 72	ROSS KAREN S 34 HOPE ST N ATTLEBORO, MA 02760	34 HOPE ST
11/73/ 74-75 + 88	FARQUHARSON PAUL F + JOAN M 47 FORREST ST N ATTLEBORO, MA 02760	47 FOREST ST
11/76/ 80	POIRER THOMAS A + KNIGHT-POIRER LUISA C 10 FOREST PL N ATTLEBORO, MA 02760	10 FOREST PL
11/85/ 138	HOEYBERGHS AN JENNY 649 STATE RD #291 WESTPORT, MA 02790	ELM ST
11/86/ 142 + 887	NICHOLSON DAVID B + PATRICIA N TRS DAVID B NICHOLSON TRS - 2006 186 ELM ST N ATTLEBORO, MA 02760	186 ELM ST
11/98/ 2	HALL RICHARD A SR + HALL RICHARD A JR 81 FOREST ST N ATTLEBOROQ, MA 02760	24 ARCH ST
11/105/ 105A	N ATTLEBORO HOUSING AUTHORITY HOUSING 20 S WASHINGTON ST N ATTLEBORO, MA 02760	HOPE ST
11/152/ 157	DRISCOLL PATRICK D + KERRI M 230 ELM ST N ATTLEBORO, MA 02760	230 ELM ST
12/97/	MESSIER DANIEL + CRONIN KELLY 237 ELM ST N ATTLEBORO, MA 02760	237 ELM ST

TOWN OF NORTH ATTLEBOROUGH
BOARD OF ASSESSORS
43 South Washington Street
North Attleborough, Ma 02760
Phone: (508)-699-0100 Ext. 2514 Fax: (508)-643-3372

Parcel(s)	Owner & Mailing Address	Property Location
12/98/	THOMPSON JEAN + WILLIAM 227 ELM ST N ATTLEBORO, MA 02760	ELM ST
12/102/	LAMOUREUX LOUIS D + TAMMY J 201 ELM ST N ATTLEBORO, MA 02760	201 ELM ST
12/103/	ROBITAILLE PETER + CHRISTINE A 191 ELM ST N ATTLEBORO, MA 02760	191 ELM ST
12/245/	THOMPSON JEAN + WILLIAM 227 ELM ST N ATTLEBORO, MA 02760	225 ELM ST
12/251/	MORRISSEY MICHAEL J + JENNIFER C 207A ELM ST FOXBORO, MA 02035	207A ELM ST
12/256/	PLATH FAMILY REALTY TR PLATH JOSEPH R + DIANE E TRS 217 ELM ST N ATTLEBORO, MA 02760	217 ELM ST
13/23/A002 69	SPEIDEL GREGORY E 2 POPPASQUASH RD N ATTLEBORO, MA 02760	2 POPPASQUASH RD #A002
13/23/A004 69	SHAW THOMAS 4 POPPASQUASH RD #A004 N ATTLEBORO, MA 02760	4 POPPASQUASH RD #A004
13/23/A006 69	ROSE EILEEN TR GOLDSTEIN FAMILY 2021 IRREVOCABLE TR 6 POPPASQUASH RD N ATTLEBORO, MA 02760	6 POPPASQUASH RD #A006
13/23/A008 69	STUART JOHN J + SHEILA M 8 POPPASQUASH RD N ATTLEBORO, MA 02760	8 POPPASQUASH RD #A008
13/23/B010 69	CARRILLO JOSE GREGORIO CELIS + AGUER 10 POPPASQUASH RD #B010 N ATTLEBORO, MA 02760	10 POPPASQUASH RD #B010
13/23/B012 69	BARBER W BRIAN + MARY E 12 POPPASQUASH RD N ATTLEBORO, MA 02760	12 POPPASQUASH RD #B012
13/23/C001 69	COSSETTE PAULA + ROBERT R + NANCY L 1 POPPASQUASH RD N ATTLEBORO, MA 02760	1 POPPASQUASH RD #C001

TOWN OF NORTH ATTLEBOROUGH
BOARD OF ASSESSORS
43 South Washington Street
North Attleborough, Ma 02760
Phone: (508)-699-0100 Ext. 2514 Fax: (508)-643-3372

Parcel(s)	Owner & Mailing Address	Property Location
13/23/C003 69	HARWOOD CHRISTOPHER J + BECKERMAN AMY 3 POPPASQUASH RD N ATTLEBORO, MA 02760	3 POPPASQUASH RD #C003
13/23/C005 69	GIMLER DONNA M + DIPIETRO GAETANO C TRS 5 POPPASQUASH RD N ATTLEBORO, MA 02760	5 POPPASQUASH RD #C005
13/23/C007 69	LACROIX KRISTINE A 7 POPPASQUASH RD N ATTLEBORO, MA 02760	7 POPPASQUASH RD #C007
13/23/C009 69	OBRIEN JAMES + JOAN 9 POPPASQUASH RD N ATTLEBORO, MA 02760	9 POPPASQUASH RD #C009
13/23/C011 69	RAMUNDO THOMAS A + KATHLEEN A 43 NEWELL DR CUMBERLAND, RI 02864	11 POPPASQUASH RD #C011
13/23/D013 69	PILOZZI BRENEDA + GIUSEPPE 13 POPPASQUASH RD N ATTLEBORO, MA 02760	13 POPPASQUASH RD #D013
13/23/D015 69	FERRARA KATHLEEN M 15 POPPASQUASH RD #D015 N ATTLEBORO, MA 02760	15 POPPASQUASH RD #D015
13/23/D017 69	DEANGELIS JOSEPH P 17 POPPASQUASH RD N ATTLEBORO, MA 02760	17 POPPASQUASH RD #D017
13/23/D019 69	MAHONEY LAWRENCE J 13000 AMBERLEY CT APT # 105 BONITA SPRINGS, FL 34135	19 POPPASQUASH RD #D019
13/23/E014 69	GAGNE LYNNE 14 POPPASQUASH RD N ATTLEBORO, MA 02760	14 POPPASQUASH RD #E014
13/23/E016 69	KRAJEWSKI ROBERT J + TROWBRIDGE 16 POPPASQUASH RD N ATTLEBORO, MA 02760	16 POPPASQUASH RD #E016
13/23/E018 69	LORENZO KAREN 18 POPPASQUASH RD N ATTLEBORO, MA 02760	18 POPPASQUASH RD #E018
13/23/E020 69	CARIGNAN GERARD J 20 POPPASQUASH RD N ATTLEBORO, MA 02760	20 POPPASQUASH RD #E020
13/23/F021 69	MATIAS SONIA L 21 POPPASQUASH RD N ATTLEBORO, MA 02760	21 POPPASQUASH RD #F021

TOWN OF NORTH ATTLEBOROUGH
BOARD OF ASSESSORS
43 South Washington Street
North Attleborough, Ma 02760
Phone: (508)-699-0100 Ext. 2514 Fax: (508)-643-3372

Parcel(s)	Owner & Mailing Address	Property Location
13/23/F023 69	POND JACOB + MCLAUGHLIN MOLLY 23 POPPSQUASH RD N ATTLEBORO, MA 02760	23 POPPASQUASH RD #F023
13/23/F025 69	REA WILLIAM T 25 POPPASQUASH RD N ATTLEBORO, MA 02760	25 POPPASQUASH RD #F025
13/23/F027 69	COLLINS JOHN M JR + BARBARA D 27 POPPASQUASH RD N ATTLEBORO, MA 02760	27 POPPASQUASH RD #F027
13/23/G022 69	ALLEN GAIL OSBORNE 22 POPPASQUASH RD #G022 N ATTLEBORO, MA 02760	22 POPPASQUASH RD #G022
13/23/G024 69	RIALL KENNETH TR KENNETH RIALL REVOCABLE TR 24 POPPASQUASH RD N ATTLEBORO, MA 02760	24 POPPASQUASH RD #G024
13/23/G026 69	PAPPALARDO ALISON L 26 POPPASQUASH RD N ATTLEBORO, MA 02760	26 POPPASQUASH RD #G026
13/23/G028 69	SCHOFIELD BONNIE C 28 POPPASQUASH RD N ATTLEBORO, MA 02760	28 POPPASQUASH RD #G028
13/23/H030 69	SMITH LAURA J 30 POPPASQUASH RD N ATTLEBORO, MA 02760	30 POPPASQUASH RD #H030
13/23/H032 69	GUILD KATHRYN M 32 POPPASQUASH RD N ATTLEBORO, MA 02760	32 POPPASQUASH RD #H032
13/23/H034 69	CONLON GLEN D 34 POPPASQUASH RD #H034 N ATTLEBORO, MA 02760	34 POPPASQUASH RD #H034
13/23/H036 69	BRETON CHRISTINE 36 POPPASQUASH RD N ATTLEBORO, MA 02760	36 POPPASQUASH RD #H036
13/23/I029 69	SCOTT WESTCOTT LAURA J 29 POPPASQUASH RD #I029 N ATTLEBORO, MA 02760	29 POPPASQUASH RD #I029
13/23/I031 69	BODENSIEK PAUL 31 POPPASQUASH RD UNIT 31 N ATTLEBORO, MA 02760	31 POPPASQUASH RD #I031

TOWN OF NORTH ATTLEBOROUGH
BOARD OF ASSESSORS
43 South Washington Street
North Attleborough, Ma 02760
Phone: (508)-699-0100 Ext. 2514 Fax: (508)-643-3372

Parcel(s)	Owner & Mailing Address	Property Location
13/23/I033 69	AYYAPPAN ARUN ISAAC RAJ + BOSCO SHYLU WILLIAM 33 POPPASQUASH RD N ATTLEBORO, MA 02760	33 POPPASQUASH RD #I033
13/23/I035 69	HOWARD JEAN E TRS JEAN E HOWARD NOMINEE 35 POPPASQUASH RD N ATTLEBORO, MA 02760	35 POPPASQUASH RD #I035
13/23/I037 69	KINNEY JOHN F + CAROLYN A 37 POPPASQUASH RD N ATTLEBORO, MA 02760	37 POPPASQUASH RD #I037
13/23/I039 69	WAGNER DIANDRA D 39 POPPASQUASH RD N ATTLEBORO, MA 02760	39 POPPASQUASH RD #I039
13/23/J038 69	MARGUILES JEROME D 38 POPPASQUASH RD #J038 N ATTLEBORO, MA 02760	38 POPPASQUASH RD #J038
13/23/J040 69	FLEISCHMANN JUNE E TRUSTEE JUNE E FLEISCHMAN REV TRS 40 POPPASQUASH RD #J040 N ATTLEBORO, MA 02760	40 POPPASQUASH RD #J040
13/89/	ROSS MICHAEL A 250 ELM ST N ATTLEBORO, MA 02760	250 ELM ST


SMITH ST
POPPASQUASH RD
HOPE ST
FOREST ST
FOREST PL
ELM ST
ELM TERR
CHESTNUT ST
NORTH ATTLEBORO HOUSING AUTHORITY
NORTH ATTLEBORO HOUSING AUTHORITY (LAND)

N ATTLEBORO HOUSING AUTHORITY
HOUSING - ELM TERRACE
20 S WASHINGTON ST
N ATTLEBORO, MA 02760

JOHNSON THOMAS E + CHERYL
39 FOREST ST
N ATTLEBORO, MA 02760

ROSS KAREN S
34 HOPE ST
N ATTLEBORO, MA 02760

FARQUHARSON PAUL F + JOAN M
47 FORREST ST
N ATTLEBORO, MA 02760

POIRER THOMAS A + KNIGHT-POIRER LUISA C
10 FOREST PL
N ATTLEBORO, MA 02760

HOEYBERGHS AN JENNY
649 STATE RD #291
WESTPORT, MA 02790

NICHOLSON DAVID B + PATRICIA N TRS
DAVID B NICHOLSON TRS - 2006
186 ELM ST
N ATTLEBORO, MA 02760

HALL RICHARD A SR + HALL RICHARD A JR
81 FOREST ST
N ATTLEBOROQ, MA 02760

N ATTLEBORO HOUSING AUTHORITY
HOUSING
20 S WASHINGTON ST
N ATTLEBORO, MA 02760

DRISCOLL PATRICK D + KERRI M
230 ELM ST
N ATTLEBORO, MA 02760

MESSIER DANIEL + CRONIN KELLY
237 ELM ST
N ATTLEBORO, MA 02760

THOMPSON JEAN + WILLIAM
227 ELM ST
N ATTLEBORO, MA 02760

LAMOUREUX LOUIS D + TAMMY J
201 ELM ST
N ATTLEBORO, MA 02760

ROBITAILLE PETER + CHRISTINE A
191 ELM ST
N ATTLEBORO, MA 02760

THOMPSON JEAN + WILLIAM
227 ELM ST
N ATTLEBORO, MA 02760

MORRISSEY MICHAEL J + JENNIFER C
207A ELM ST
FOXBORO, MA 02035

PLATH FAMILY REALTY TR
PLATH JOSEPH R + DIANE E TRS
217 ELM ST
N ATTLEBORO, MA 02760

SPEIDEL GREGORY E
2 POPPASQUASH RD
N ATTLEBORO, MA 02760

SHAW THOMAS
4 POPPASQUASH RD #A004
N ATTLEBORO, MA 02760

ROSE EILEEN TR
GOLDSTEIN FAMILY 2021 IRREVOCABLE TR
6 POPPASQUASH RD
N ATTLEBORO, MA 02760

STUART JOHN J + SHEILA M
8 POPPASQUASH RD
N ATTLEBORO, MA 02760

CARRILLO JOSE GREGORIO CELIS + AGUERO
XOCHILT IRENE SANTANA
10 POPPASQUASH RD #B010
N ATTLEBORO, MA 02760

BARBER W BRIAN + MARY E
12 POPPASQUASH RD
N ATTLEBORO, MA 02760

COSSETTE PAULA + ROBERT R + NANCY L
1 POPPASQUASH RD
N ATTLEBORO, MA 02760

HARWOOD CHRISTOPHER J + BECKERMAN AMY
3 POPPASQUASH RD
N ATTLEBORO, MA 02760

GIMLER DONNA M + DIPIETRO GAETANO C TRS
5 POPPASQUASH RD
N ATTLEBORO, MA 02760

LACROIX KRISTINE A
7 POPPASQUASH RD
N ATTLEBORO, MA 02760

OBRIEN JAMES + JOAN
9 POPPASQUASH RD
N ATTLEBORO, MA 02760

RAMUNDO THOMAS A + KATHLEEN A
43 NEWELL DR
CUMBERLAND, RI 02864

PILOZZI BRENEDA + GIUSEPPE
13 POPPASQUASH RD
N ATTLEBORO, MA 02760

FERRARA KATHLEEN M
15 POPPASQUASH RD #D015
N ATTLEBORO, MA 02760

DEANGELIS JOSEPH P
17 POPPASQUASH RD
N ATTLEBORO, MA 02760

MAHONEY LAWRENCE J
13000 AMBERLEY CT APT # 105
BONITA SPRINGS, FL 34135

GAGNE LYNNE
14 POPPASQUASH RD
N ATTLEBORO, MA 02760

KRAJEWSKI ROBERT J + TROWBRIDGE
16 POPPASQUASH RD
N ATTLEBORO, MA 02760

LORENZO KAREN
18 POPPASQUASH RD
N ATTLEBORO, MA 02760

CARIGNAN GERARD J
20 POPPASQUASH RD
N ATTLEBORO, MA 02760

MATIAS SONIA L
21 POPPASQUASH RD
N ATTLEBORO, MA 02760

POND JACOB + MCLAUGHLIN MOLLY
23 POPPSQUASH RD
N ATTLEBORO, MA 02760

REA WILLIAM T
25 POPPASQUASH RD
N ATTLEBORO, MA 02760

COLLINS JOHN M JR + BARBARA D
27 POPPASQUASH RD
N ATTLEBORO, MA 02760

ALLEN GAIL OSBORNE
22 POPPASQUASH RD #G022
N ATTLEBORO, MA 02760

RIALL KENNETH TR
KENNETH RIALL REVOCABLE TR
24 POPPASQUASH RD
N ATTLEBORO, MA 02760

PAPPALARDO ALISON L
26 POPPASQUASH RD
N ATTLEBORO, MA 02760

SCHOFIELD BONNIE C
28 POPPASQUASH RD
N ATTLEBORO, MA 02760

SMITH LAURA J
30 POPPASQUASH RD
N ATTLEBORO, MA 02760

GUILD KATHRYN M
32 POPPASQUASH RD
N ATTLEBORO, MA 02760

CONLON GLEN D
34 POPPASQUASH RD #H034
N ATTLEBORO, MA 02760

BRETON CHRISTINE
36 POPPASQUASH RD
N ATTLEBORO, MA 02760

SCOTT WESTCOTT LAURA J
29 POPPASQUASH RD #I029
N ATTLEBORO, MA 02760

BODENSIEK PAUL
31 POPPASQUASH RD UNIT 31
N ATTLEBORO, MA 02760

AYYAPPAN ARUN ISAAC RAJ + BOSCO SHYLU WILLIAM
33 POPPASQUASH RD
N ATTLEBORO, MA 02760

HOWARD JEAN E TRS JEAN E HOWARD NOMINEE
35 POPPASQUASH RD
N ATTLEBORO, MA 02760

KINNEY JOHN F + CAROLYN A
37 POPPASQUASH RD
N ATTLEBORO, MA 02760

WAGNER DIANDRA D
39 POPPASQUASH RD
N ATTLEBORO, MA 02760

MARGUILES JEROME D
38 POPPASQUASH RD #J038
N ATTLEBORO, MA 02760

FLEISCHMANN JUNE E TRUSTEE
JUNE E FLEISCHMAN REV TRS
40 POPPASQUASH RD #J040
N ATTLEBORO, MA 02760

ROSS MICHAEL A
250 ELM ST
N ATTLEBORO, MA 02760

APPENDIX E:

Wetland Field Report

Christopher J. Capone
49 Doherty Avenue
Somerset, MA 02726

WETLANDS FIELD REPORT
GCG Associates
34 Circle Court
204 Elm Street
North Attleboro, MA

September 6, 2025

The purpose of this report is to set forth the basis for the delineation of wetland resource areas on the subject property. The delineation of the bordering vegetated wetland was flagged in accordance with the 2022 MADEP field handbook entitled, Delineation of Bordering Vegetated Wetlands 2nd Edition, and is intended to comply with Massachusetts Wetlands Protection Act, 310 CMR 10.00.

The proposed project is to determine wetland resource areas within two properties owned by the North Attleboro Housing Authority. The properties are identified on the Town of North Attleboro Assessors as Map 11 Lot 1, and Map 19 Lot 220.

I conducted a one day assessment of the properties on 9/5/25. The temperatures were 75 degrees with leaf on conditions. The delineation of the wetland resource areas on the property began with determining the areas were wetland vegetation clearly dominated. After making this determination, I crisscrossed between these wetland areas and surrounding uplands (i.e. within the wetland-uplands transition zones) and placed pink numbered flags were wetlands plants made up at least 50% of the plant community. It was determined the resource areas identified are a Bordering Vegetated Wetland (BVW).

Elm Street- Flags WF #A1- WF #A25 were placed in the field along the edge of wetland. Wetland area is located along the rear parking lot and below Hope Street. Storm water is discharged into this area from the street drains. Water flows south east into an adjacent ponding area before exiting offsite. (See attached)

Circle Court- Flags WF # A1- WF # A14 were placed in the field along the wetland that is located on the west property abutting Circle Court. The wetland is associated with Scotts Brook a perennial stream located within the interior section of the BVW. (See attached)

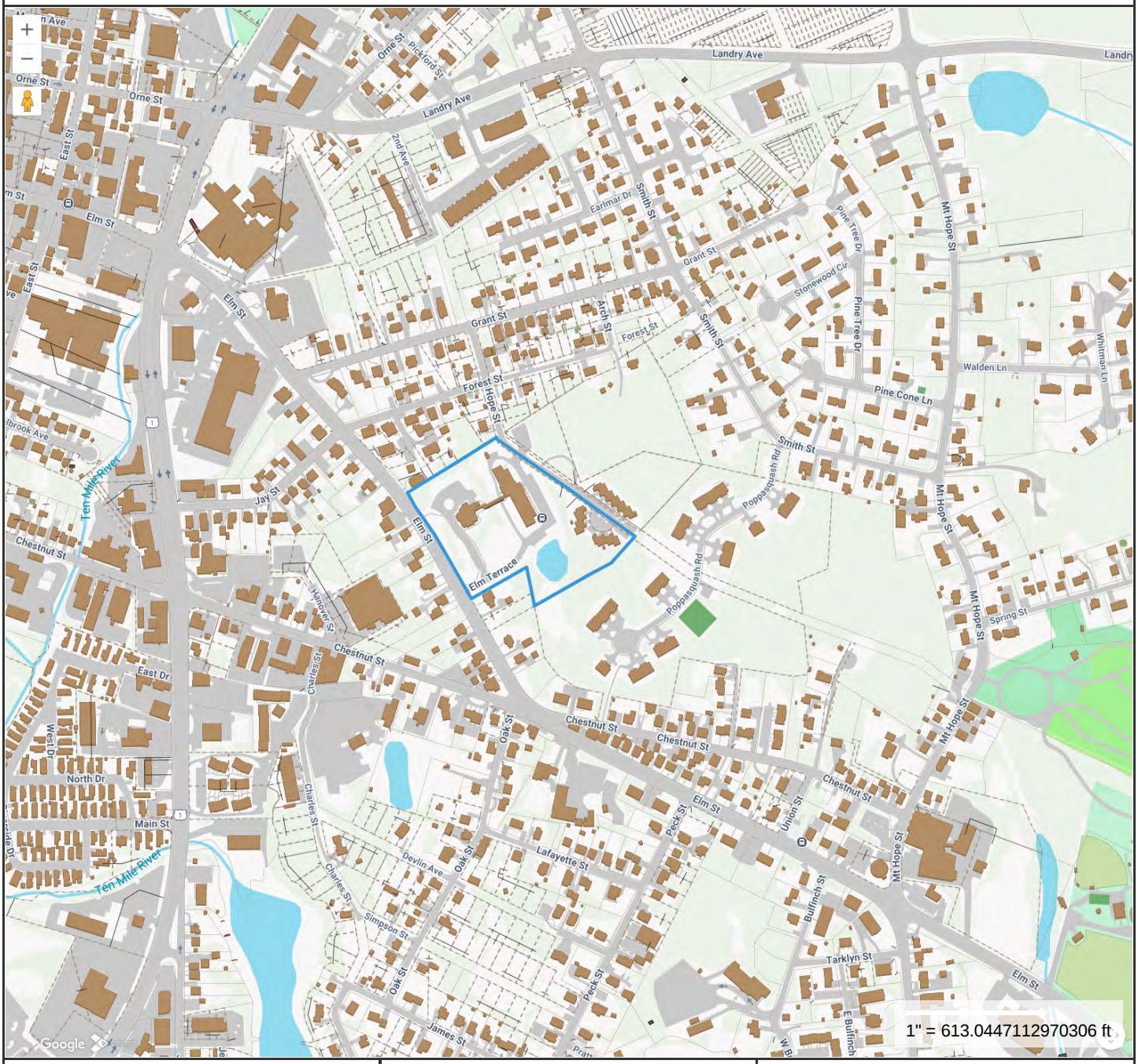
Wetland Vegetation observed was Glossy Buckthorn (Rhamnus frangula) FAC, Royal Fern (Osmunda regalis) OBL, Jewelweed (Impatiens capensis) FACW, Red Maple (Acer rubrum) FAC, and invasive Purple Loosestrife (Lythrum salicaria) FACW.

If you have questions or concerns please contact me at paulcapone@live.com or (508)642-3040.

Sincerely,

Christopher J. Capone
Christopher J. Capone
Wetlands Consultant

204 Elm Street



Property Information

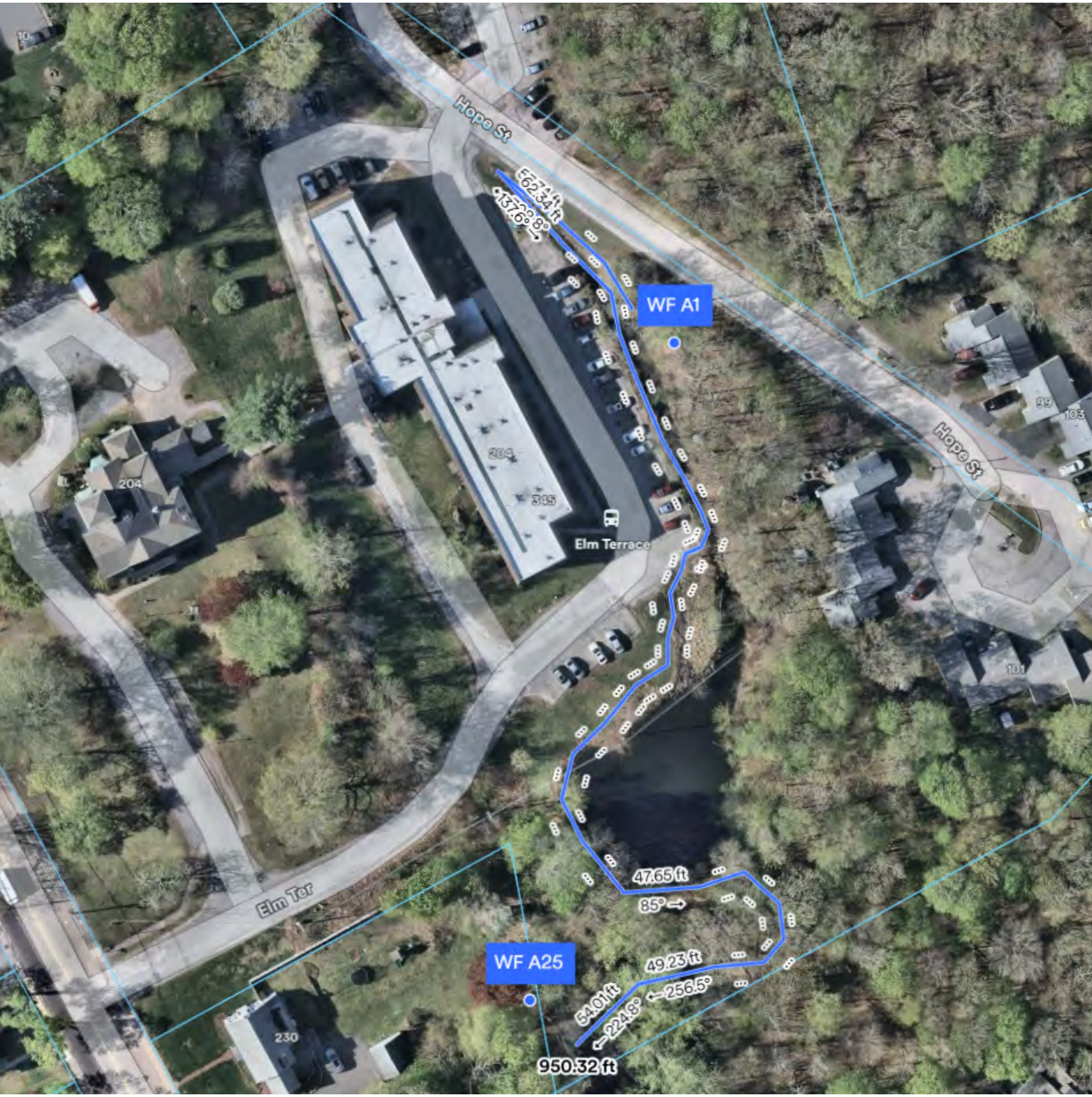
Property ID	11-1
Location	204 ELM ST
Owner	N ATTLEBORO HOUSING AUTHORITY

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

Town of North Attleborough, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated June 2025
Data updated June 2025

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.


Hope St
WF A1
62.34 ft
137.6°
Elm Terrace
Hope St
47.65 ft
85°
Elm Ter
WF A25
49.23 ft
54.01 ft
224.8°
256.5°
950.32 ft

III REFERENCES

Parking Lot and Walkway Upgrades
Circle Court (667-1)
North Attleborough, Massachusetts.
North Attleborough Housing Authority
EOHLC Project # 197161
(8 sheets)

GCG ASSOCIATES
CIVIL ENGINEERING & LAND SURVEYING

84 Main Street
Wilmington, MA 01887
Phone: (978) 657-9714

January 29, 2026

Sandra McCrory,
Conservation Commission
Town of North Attleborough
43 South Washington Street
North Attleborough, MA 02760

RE: Elm Terrace Parking Lot and Walkway Upgrade Project
Notice of Intent

Dear Ms. McCrory:

GCG Associates, Inc., on behalf of the North Attleborough Housing Authority has updated our plans to reflect comments and discussion from the recent hearings. The following revisions have been made to the plans.

- The travel way along the front of the building that runs parallel with the drainage swale has been reduced by 4.5 feet from 28.5 feet to a 24-foot travel way which moved the new granite curbing further back from the swale. This adjustment moves the current edge of pavement back 3' to 8.5' further back away from the wetlands. The granite curbing along the parking lot prevents sediment and runoff from directly flowing into the swale/wetland as it does now. The runoff flows parallel to the swale then over land across grass and eventually into the resource areas. We have also reduced the width of the entry way to the site from 24 feet wide to 23 feet wide (approximately 300 feet of roadway).
- The slope between the parking and the resource area will be graded and have a New England Wetland Mix place on the slope.
- All culverts and drain lines will be jetted, cleaned and video inspected during the construction to make sure there is not a need for placement.
- The overall impervious surface inside the 100-foot buffer zone is reduced by 272 square feet. The movement of the parking area further away from the wetland resource area offsets the seven new spaces at the end of the building. The net change in impervious surfaces is 5 square fee less over the entire site.
- We recommend we stay with the original O&M and not touch or disturb the resource areas which were considered drainage swales at the time of construction in the 1960-70's.
- Moving pavement and creating a meadow area along the parking area would provide a viable improvement to protect the resource area.
- All existing catch basins on site shall have hood added to them.

Attached you will find updated plans for your review and discussion at the next meeting. If you have any questions regarding this matter, please contact our office.

Respectfully Submitted,
GCG Associates

Michael J. Carter

Michael J. Carter, PE, PLS
Project Manager

PARKING LOT & WALKWAY UPGRADES

ELM TERRACE (667-2)

NORTH ATTLEBOROUGH, MASSACHUSETTS

NORTH ATTLEBOROUGH HOUSING AUTHORITY

EOHLC PROJECT #197161

OWNER/APPLICANT:

NORTH ATTLEBOROUGH HOUSING AUTHORITY (NAHA)
20 SOUTH WASHINGTON STREET
NORTH ATTLEBOROUGH, MA, 02760
PHONE: (508) 695-5142

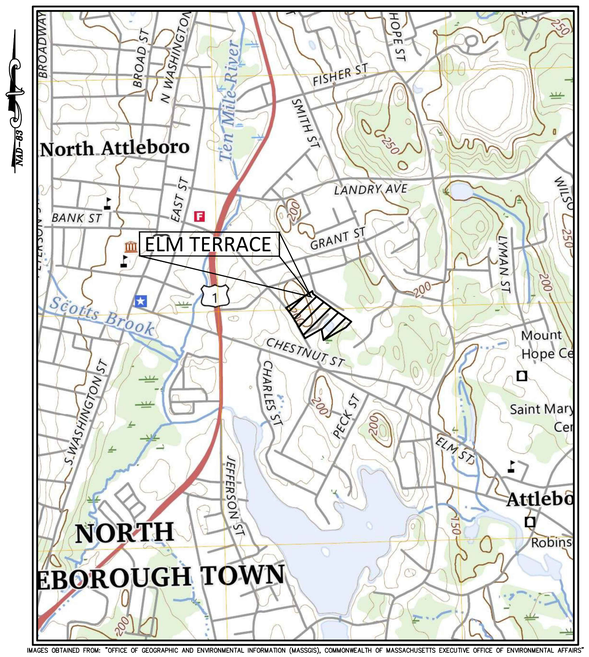
PROJECT ADDRESS:

ELM TERRACE (667-2)
204 ELM STREET
NORTH ATTLEBOROUGH, MA 02760
MAP 11, LOT 1
BOOK 1691, PAGE 296, N.B.C.R.D.

NORTH ATTLEBOROUGH PLANNING BOARD

_____
_____
_____
_____
_____
_____
_____
_____

DATE: _____



IMAGES OBTAINED FROM: "OFFICE OF GEOGRAPHIC AND ENVIRONMENTAL INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS"

LOCUS PLAN
SCALE : 1"=1000'±

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	NOTES AND LEGEND
3	EXISTING CONDITIONS PLAN
4	DEMOLITION PLAN
5	SITE PLAN
6	GRADING PLAN
7	DETAILS I
8	DETAILS II

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
38907
REGISTERED PROFESSIONAL ENGINEER

12/18/2025

SITE PLAN REVIEW FOR (NAHA)

NORTH ATTLEBOROUGH HOUSING AUTHORITY

100% CONSTRUCTION DOCUMENTS

GCG ASSOCIATES INC. CONSULTING ENGINEERS WILMINGTON, MASSACHUSETTS

REVISED JANUARY 28, 2026
DECEMBER 18, 2025

Tab: COVER Elm Ter Plot Style: GCG 2016.ctb Plotted By: Bisley Howe

2507-100%_CD - Elm Terrace Not Plan Set-edits - Copy.DWG Saved: 1/29/2026 12:17 PM Plotted: Jan 29, 2026 12:29 pm

GENERAL NOTES

1. PLANS AND TOPOGRAPHIC INFORMATION ARE PREPARED FROM GROUND SURVEY AND DRONE SURVEY PERFORMED BY GCG ASSOCIATES, INC., ON MARCH, 19, APRIL 29, AND OCTOBER 2, 2025.
2. WETLAND DELINEATION WAS PERFORMED BY CHRISTOPHER J. CAPONE ON SEPTEMBER 5, 2025, AND FIELD LOCATED BY THIS OFFICE.
3. ALL LOCATIONS OF SUBSURFACE UTILITIES AND STRUCTURES WERE OBTAINED FROM AVAILABLE UTILITY RECORDS. THE SIZE, TYPE, AND LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL PROPERLY LOCATE THE UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN UTILITY INFORMATION BY CONTACTING DIG SAFE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION AT (811). THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY UTILITY LINE LOCATIONS AS NECESSARY.
4. **THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES ON SITE. THE CONTRACTOR SHALL HIRE A PRIVATE MARKING COMPANY TO LOCATE ONSITE UTILITIES. THE COST TO HIRE THE PRIVATE MARKING COMPANY SHALL BE INCLUDED IN THE CONTRACT PRICE.**
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL STATE OR LOCAL BUILDING PERMITS THAT MAY BE REQUIRED. THE NORTH ATTLEBOROUGH HOUSING AUTHORITY SHALL PAY FOR ALL PERMITS.
6. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A CONSTRUCTION SCHEDULE DELINEATING THE SEQUENCE OF WORK AND ESTIMATED TIME OF COMPLETION OF EACH SEGMENT OF WORK, PRIOR TO THE COMMENCEMENT OF WORK.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ALL WORK INCLUDED UNDER THIS CONTRACT. THE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SAFETY BARRIERS, WARNING FLASHERS, ETC., AS REQUIRED BY THE CONDUCT OF THE WORK FOR THE PROTECTION OF WORKERS AND NON-WORKERS ALIKE. THE CONTRACTOR'S ATTENTION IS DIRECTED TO OSHA REQUIREMENTS.
8. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS TRAFFIC FLOW DURING CONSTRUCTION SATISFACTORY TO THE ENGINEER AND THE NORTH ATTLEBOROUGH HOUSING AUTHORITY. ACCESS TO ALL EXISTING RESIDENCES SHALL BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION BY THE CONTRACTOR. ACCESS TO ALL EXISTING RESIDENCES SHALL BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE PARKING LOT DURING CONSTRUCTION FOR ALL RESIDENTS.
9. NO EQUIPMENT SHALL BE ALLOWED TO BE PARKED ON THE ROAD WHEN NOT IN USE. MATERIALS SHALL NOT BE STOCKPILED ON THE ROAD OR IN PARKING AREAS. THE CONTRACTOR SHALL CONSULT THE NORTH ATTLEBOROUGH HOUSING AUTHORITY WITH RESPECT TO LOCATION OF STOCKPILED MATERIALS.
10. ALL CONSTRUCTION SIGNAGE SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
11. BUILDING LOCATIONS AS SHOWN ON ADJACENT PROPERTIES, ARE APPROXIMATE AND FOR REFERENCE PURPOSES ONLY.
12. ALL CONSTRUCTION MATERIAL, DEBRIS, ASPHALT, SOIL, ETC. THAT IS REMOVED FROM THE SITE SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. THE COST FOR THIS SHALL BE INCLUDED IN THE CONTRACT PRICE.
13. THE CONTRACTOR SHALL MAINTAIN THE EXISTING SITE DRAINAGE PATTERNS UNLESS OTHERWISE NOTED. ALL GRADING MODIFICATIONS SHALL DIRECT DRAINAGE AWAY FROM ALL EXISTING BUILDINGS AND TOWARDS THE APPROPRIATE AREAS.
14. ALL GRADING MODIFICATIONS SHALL BE GRADUAL SO AS NOT TO CREATE ANY STEEP SLOPES, UNEVEN AREAS, ETC.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY DEBRIS, SEDIMENT OR SILTY WATER FROM ENTERING ANY DRAINAGE SYSTEM, ETC. DURING ALL PHASES OF CONSTRUCTION.
16. DURING CONSTRUCTION THE CONTRACTOR SHALL PROTECT ALL TREES AND ROOTS OF TREES TO REMAIN. ROOTS ON TREES WHICH ARE IMPACTING THE SAFETY OF THE SITE OR AFFECTING WALKWAYS SHALL BE REMOVED BY THE CONTRACTOR.
17. THE CONTRACTOR SHALL REMOVE OVERGROWN VEGETATION ALONG WALKWAYS AND FENCES AS NEEDED. COST SHALL BE INCLUDED IN THE CONTRACT PRICE.
18. DURING THE COURSE OF CONSTRUCTION ANY DAMAGE BY THE CONTRACTOR TO FENCES, GUARD RAILS, PATHS, STAIRS, PAVEMENT AND VEGETATION SHALL BE REPAIRED OR REPLACED AND RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE CONTRACT. ANY REPLACEMENT FENCE AND/OR HANDRAILS SHALL MATCH EXISTING FENCE IN TYPE, FINISH (GALVANIZED AND VINYL CLAD), COLOR AND MESH SIZE.
19. ALL CASTINGS, GATE BOXES, HYDRANTS, LIGHT POLES, ETC. DAMAGED DURING RECONSTRUCTION SHALL BE SUPPLIED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE.
20. SIDEWALKS, WALKWAYS AND DRIVEWAYS THAT ARE DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL ONCE THE WORK IS COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
22. ANY POLICE DETAILS REQUIRED SHALL BE INCLUDED IN THE LUMP SUM PRICE AT NO ADDITIONAL COST TO THE OWNER.
22. THE CONTRACTOR SHALL MAINTAIN ACCESS DURING CONSTRUCTION FOR ALL RESIDENTS. ANY TEMPORARY WALKS/RAMPS REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT. ALL DISTURBED AREA IS TO BE RESTORED WITH LOAM (6" MINIMUM) AND SEED AT NO ADDITIONAL COST TO THE OWNER.
24. THE CONTRACTOR SHALL PROVIDE TEMPORARY RAMPS AND WALKWAYS AS NECESSARY TO RESIDENTS.

PAVING AND RECLAMATION NOTES

1. ALL TRENCHES WILL BE COMPACTED TO ALLOW PROPER SETTLEMENT. ALL TRENCHES WILL BE COMPACTED TO 95% COMPACTION. INCLUDE PAYMENT UNDER ASSOCIATED ITEM.
2. PRIOR TO RECLAIMING, THE CONTRACTOR SHALL COMPLETE ALL EXCAVATING AND PREPARING SUBGRADE REQUIRED TO PULVERIZE THE PAVEMENT AND SHALL LOWER ALL CASTINGS AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
3. BOTH PARKING LOTS AND ROADWAYS SHALL BE RECLAIMED TO A MINIMUM DEPTH OF 16" BELOW THE PROPOSED FINISH GRADE WITHIN THE PROJECT LIMITS. THE EXISTING PAVEMENT SHALL BE PULVERIZED TO THE POINT WHERE NO MATERIAL IS GREATER THAN 3".
4. THE CONTRACTOR SHALL RECLAIM THE ENTIRE WIDTH OF EXISTING MATERIAL. THE LIMITS (EDGE OF PAVEMENT) OF THE EXISTING PAVED SURFACES ARE SHOWN IN THE PLAN VIEW OF THESE CONSTRUCTION DRAWINGS.
5. AFTER PULVERIZING THE PARKING LOT ASPHALT PAVEMENT AND UNDERLYING MATERIALS, THE CONTRACTOR SHALL REMOVE AND STOCKPILE (WINROW) THE RECLAIMED MATERIAL. THE CONTRACTOR SHALL THEN EXCAVATE AND REMOVE THE NECESSARY SUBGRADE MATERIAL IN ORDER TO MEET THE FINAL GRADES OF THE PARKING LOTS. THE CONTRACTOR SHALL THEN PLACE, GRADE AND COMPACT THE EXISTING RECLAIMED BASE COURSE TO A 12" DEPTH AS SHOWN ON THE TYPICAL ROADWAY CROSS SECTION. THE SUBBASE SHALL THEN BE FINE GRADED AND COMPACTED TO ALLOW FOR THE PLACEMENT OF: 2" BASE COURSE INTERMEDIATE COURSE PAVEMENT (SIC-19.0-TABLE 460.10-1) AND 1-1/2" SURFACE COURSE (SSC-9.5-TABLE 460.10-1) AND ACCORDING TO MASSDOT SECTION 460-"HOT MIX ASPHALT PAVEMENT FOR LOCAL STREETS"
6. AFTER PULVERIZING THE EXISTING IN PLACE ASPHALT AND UNDERLYING MATERIAL (TOTAL OF 16" DEPTH), THE CONTRACTOR SHALL PLACE, GRADE AND COMPACT THE EXISTING RECLAIMED BASE COURSE TO A 12" DEPTH AS SHOWN ON THE TYPICAL CROSS SECTION.
7. THE CONTRACTOR SHALL GRADE THE EXISTING RECLAIMED SUBBASE MATERIAL OR GRAVEL BORROW MATERIAL TO ALLOW THE FINAL PAVEMENT SURFACE TO MATCH THE EXISTING EDGE OF PAVEMENT GRADES UNLESS OTHERWISE NOTED. THE RECONSTRUCTION OF THE PARKING LOTS SHALL ALSO BE IN ACCORDANCE WITH THE TYPICAL CROSS SECTION DETAIL SHOWN ON THE PLANS. ANY GRADING MODIFICATIONS SHALL DIRECT DRAINAGE TOWARDS THE APPROPRIATE AREAS.
8. ALL PROPOSED CUTS AND FILLS REQUIRED TO GRADE THE RECLAIMED MATERIAL TO A 12" DEPTH SHALL BE INCLUDED FOR PAYMENT UNDER THE APPROPRIATE ITEM.
9. ALL DRAINAGE AND UTILITY CASTINGS SHALL BE LOWERED OR REMOVED AND PLATED PRIOR TO RECLAIMING THE PARKING LOTS. ALL STRUCTURES MUST BE LOWERED TO A DEPTH OF 6 INCHES BELOW THE BOTTOM OF THE PROPOSED RECLAIMED BASE COURSE.
10. THE CONTRACTOR SHALL FINE GRADE THE EXISTING RECLAIMED BASE COURSE MATERIAL NO MORE THAN 24 HOURS PRIOR TO THE PLACEMENT OF THE 2" BASE COURSE PAVEMENT. ALL GRADING, COMPACTION AND DUST CONTROL ASSOCIATED WITH FINE GRADING TO BE INCLUDED IN THE APPROPRIATE RECLAIM ITEM.
11. THE CONTRACTOR SHALL STOCKPILE AND RETAIN SUFFICIENT SURPLUS SUBBASE AND RECLAIMED PAVEMENT SUBBASE MATERIALS TO USE AS NEEDED IN THE ENTIRE PROJECT AREA. THE COSTS ASSOCIATE WITH THE EXCAVATION, PLACEMENT AND DISPOSAL OF SURPLUS SUBBASE MATERIAL SHALL BE INCLUDED IN THE LUMP SUM PRICE. NO ADDITIONAL PAYMENT FOR PLACEMENT SHALL BE MADE. SURPLUS SUBBASE AND RECLAIMED PAVEMENT SUBBASE MATERIAL SHALL BE USED ONSITE PRIOR TO GRAVEL BORROW MATERIAL. ANY EXCESS RECLAIMED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NO ADDITIONAL PAYMENT FOR DISPOSAL SHALL BE MADE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION TESTING. SEE SPECIFICATION SECTION 02250 FOR COMPACTION CONTROL AND TESTING.
13. PRIOR TO COMPLETING FINAL GRADING OF THE RECLAIMED BASE COURSE, THE ENGINEER SHALL REVIEW GRADES TO DETERMINE THAT SUFFICEINT CROSS SLOPES AND POSITIVE DRAINAGE FLOWS HAVE BEEN MAINTAINED. IF GRADES NEED TO BE ADJUSTED, THE CONTRACTOR SHALL REGRADE AS DIRECTED.
14. CROSS SLOPES AT CATCH BASINS SHALL BE ADJUSTED AS NECESSARY TO ASSURE PROPER DRAINAGE.
15. CONTRACTOR SHALL CONTROL DUST DURING CONSTRUCTION USING CALCIUM CHLORIDE AS NECESSARY.
16. DRAINAGE STRUCTURES SHALL BE ADJUSTED OR REMODELED AS REQUIRED TO MEET GRADE AT NO ADDITIONAL COST TO THE OWNER.
17. SHOULDERS OF DRIVEWAY AND PARKING AREAS SHALL BE GRADED FOR A SMOOTH TRANSITION FROM THE PROPOSED EDGE OF PAVEMENT/CURB TO THE EXISTING GRADE.
18. ALL STRUCTURES SHALL BE LOWERED PRIOR TO RECLAIMING AND THEN RAISED TO FINISHED GRADE ONCE BINDER IS PLACED.

FINE GRADING AND COMPACTING

1. THE CONTRACTOR SHALL FINE GRADE AND COMPACT ALL AREAS IN PREPARATION FOR PAVEMENT, INCLUDING, BUT NOT LIMITED TO THE PARKING LOT AREAS AND TRANSITION DRIVEWAY AREAS. THE CONTRACTOR SHALL ALSO STRAIGHT CUT ALL EXISTING JOINTS AND EDGES IN PREPARATION FOR FINAL PAVEMENT.
2. PAYMENT FOR GRADING AND COMPACTING THE PROPOSED OR RECONSTRUCTED BITUMINOUS CONCRETE SIDEWALKS, RAMPS AND DRIVEWAY APRONS SHALL BE INCLUDED IN THE APPROPRIATE SIDEWALK, APRON, OR RAMP ITEM.
3. PAYMENT FOR FINE GRADING AND COMPACTING THE RECONSTRUCTED BITUMINOUS PARKING LOTS SHALL BE INCLUDED IN THE APPROPRIATE CONTRACT ITEM.

RAISING CASTINGS

1. ALL CASTINGS WILL BE RAISED TO FINISHED GRADE AFTER PLACEMENT OF THE 2" BASE PAVING COURSE, PRIOR TO PLACEMENT OF THE 1-1/2" FINAL PAVING COURSE.

CATCH BASIN & DRAIN LINE CLEANING NOTES

1. ALL ACCUMULATED SEDIMENT, DEBRIS, ORGANIC MATTER, ETC. MUST BE REMOVED FROM CATCH BASINS AND DRAINAGE SYSTEM UPON COMPLETION OF THE PROJECT.
2. SILT SACKS SHALL BE PLACED IN ALL CATCH BASINS AS SHOWN ON THE PLAN DURING CONSTRUCTION PERIOD.
3. ALL SEDIMENT AND DEBRIS REMOVED FROM THE CATCH BASIN OR PIPE LINE SHALL BE PROPERLY HANDLED AND DISPOSED OF AT AN OFF-SITE LOCATION IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.
4. ANY REQUIRED MAINTENANCE OR REPAIRS NOTED DURING THE CLEANING AND INSPECTION SHOULD BE ADDRESSED IMMEDIATELY.
5. THE EXISTING DRAIN LINE SHALL BE JETTED, CLEANED, AND A VIDEO OF THE LINE SHALL BE TAKEN AFTER CLEANING.

CURB AND SIDEWALK NOTES

1. BITUMINOUS CONCRETE SIDEWALKS SHALL BE CONSTRUCTED WITH 1-½" TOP COURSE AND A 1-½" BINDER COURSE, ACCORDING TO THE CONSTRUCTION DETAILS AND AS SPECIFIED.
2. CEMENT CONCRETE WALKS SHALL BE A OF MINIMUM 4" THICK. CEMENT CONCRETE RAMPS AND DRIVEWAY APRONS SHALL BE A MINIMUM OF 6" THICK.
3. CEMENT CONCRETE WALKS, RAMPS, AND DRIVEWAY APRONS SHALL BE MINIMUM 4,000 PSI REINFORCED CEMENT CONCRETE.
4. STOCKPILED EXCESS RECLAIMED GRAVEL SHALL BE USED TO REPLACE OR ADJUST THE GRAVEL BASE FOR THE PROPOSED SIDEWALKS THROUGHOUT THE PROJECT AND SHALL BE INCLUDED IN THE SIDEWALK PRICE.
5. ALL GRANITE CURB SHALL BE OF TYPE VA-4 AS SPECIFIED BY MASSDOT AND SHALL INCLUDE ALL LENGTHS – STRAIGHT, RADIUS, TRANSITION AND CURB INLETS.
6. NEW AND/OR SALVAGED GRANITE CURBING SHALL BE SET IN ACCORDANCE WITH THE CONSTRUCTION DETAIL PROVIDED IN CONTRACT DRAWINGS.
7. NEW AND/OR SALVAGED GRANITE CURBING SHALL BE INSTALLED BY THE CONTRACTOR AT THE NEW PROPOSED GRADES AND EDGE OF ROADWAY LINES AS DEPICTED ON THE PLANS

CONSTRUCTION PHASING

1. THE PROPOSED WORK SHALL BE COMPLETED IN PHASES SO AS TO PROVIDE ADEQUATE PARKING DURING CONSTRUCTION FOR RESIDENTS AND VISITORS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CONSTRUCTION PHASING WITH THE NORTH ATTLEBOROUGH HOUSING AUTHORITY AND THE ENGINEER.

ABBREVIATIONS

APPROX	APPROXIMATE
BB	BITUMINOUS BERM CURB
BC	BOTTOM OF CURB
BLDG	BUILDING
BIT	BITUMINOUS CONCRETE
CB	CATCH BASIN
CC	CONCRETE CURB
CCB	CAPE COD BERM
CIP	CAST-IN-PLACE
CLF	CHAIN LINK FENCE
CONC	CONCRETE
D	DRAIN
DI	DUCTILE IRON
DRV	DRIVEWAY
DMH	DRAIN MANHOLE
E	ELECTRIC
EMH	ELECTRIC MANHOLE
EOC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
EX	EXISTING
HCR	HANDICAPPED RAMP
HYD	HYDRANT
INV	INVERT
LF	LINEAR FEET
LP	LIGHT POLE
MH	MANHOLE
N/F	NOW OR FORMERLY
NO	NUMBER
PROP	PROPOSED
R	RIM
SMH	SEWER MANHOLE
SPEC	SPECIFICATION
SW	SIDEWALK
TC	TOP OF CURB
TH	THRESHOLD
TYP	TYPICAL
UP	UTILITY POLE
VGC	VERTICAL GRANITE CURB

EXISTING LEGEND

EXIST. MAG NAIL BENCHMARK
EXIST. CATCH BASIN
EXIST. ROUND CATCH BASIN
EXIST. DRAIN MANHOLE
EXIST. SEWER MANHOLE
EXIST. MANHOLE
EXIST. ELECTRIC MANHOLE
EXIST. PULL BOX
EXIST. HYDRANT
EXIST. WATER GATE VALVE
EXIST. GAS GATE VALVE
EXIST. BOLLARD
EXIST. LIGHT POST
EXIST. SIGN
EXIST. FLAG POLE
EXIST. SITE BENCH
EXIST. BLDG. (APPROX.)
EXIST. DRAIN LINE (D)
EXIST. SEWER LINE (S)
EXIST. WATER LINE (W)
EXIST. ELECTRIC LINE (E)
EXIST. GAS LINE (G)
EXIST. TELEPHONE LINE (T)
EXIST. PLUMBING (P)
EXIST. CURB
EXIST. CHAIN LINK FENCE
EXIST. VINYL FENCE
EXIST. WALL
EXIST. 5' CONTOURS (140)
EXIST. 1' CONTOURS (138)
EXIST. SPOT GRADE (×41.29)
EXIST. TREE W/ DIAMETER (36")
EXIST. TREE/VEGETATION LINE
APPROX. ABUTTER LOT LINE

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

NOTES AND LEGEND

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

MICHAEL J. CARTER CIVIL No. 35907 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS
1/28/2026

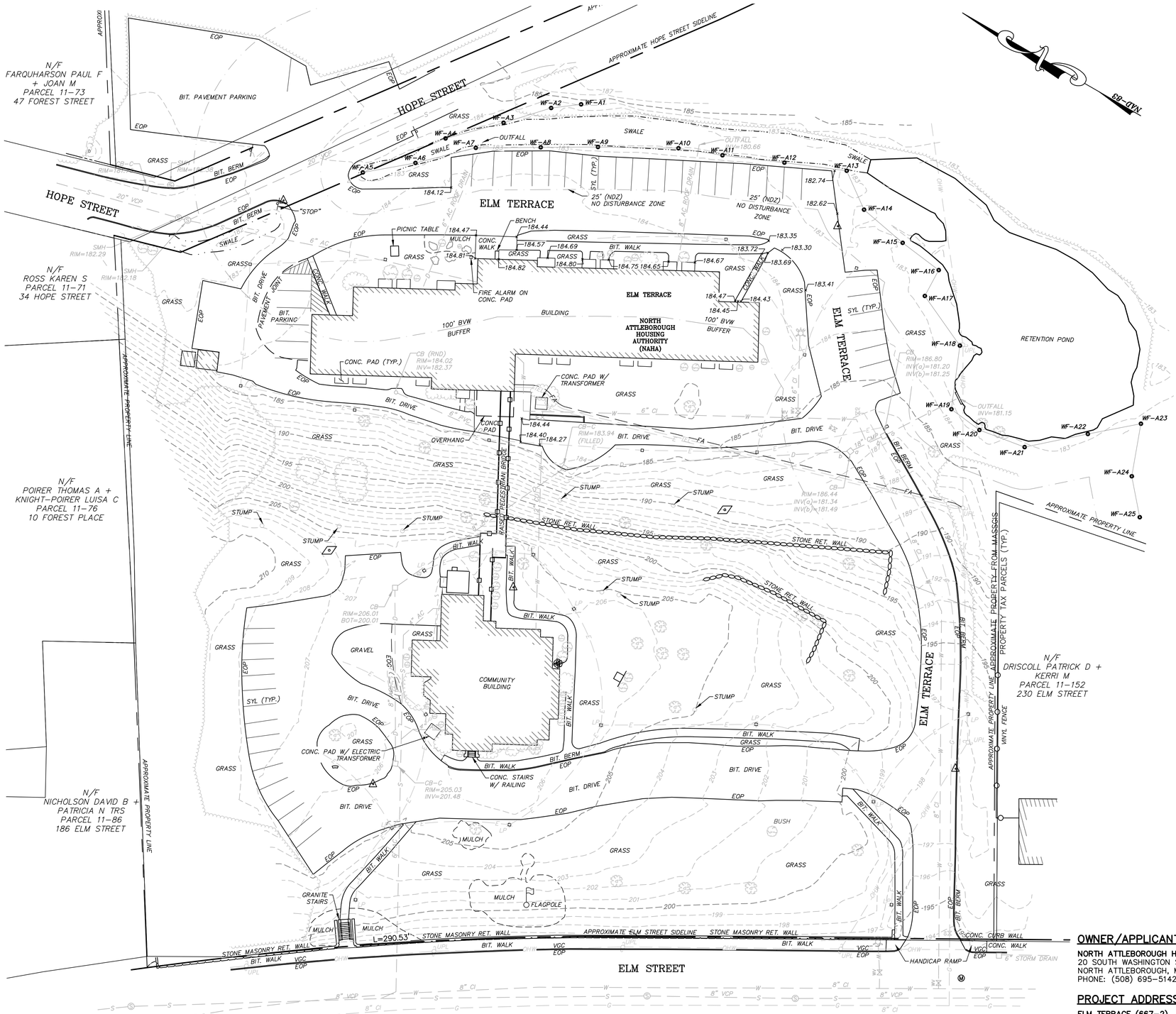
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: NOT TO SCALE DATE: DECEMBER 18, 2025

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DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 2 OF 8

REV.	DATE	DESCRIPTION	BY
1	1/28/26	REVIEW COMMENTS	L.P.B.

ELM TERRACE HOUSING DEVELOPMENT



PLAN
SCALE: 1" = 30'

NOTES:

1. PROPERTY BOUNDARY BASED ON LAND COURT PLAN LC #31895 A & C.
2. WETLAND DELINEATION PERFORMED BY CHRISTOPHER J. CAPONE ON 9/05/2025, AND FIELD LOCATED BY THIS OFFICE ON 9/29/2025.
3. LOCUS PROPERTY DOES NOT FALL WITHIN THE FEMA NATIONAL FLOOD HAZARD ZONE AE (EL. 252), ACCORDING TO PANEL 25005C0102G, EFFECTIVE DATE 7/16/2015.
4. LOCUS PROPERTY DOES NOT FALL WITHIN AN ESTIMATED HABITATS OF RARE SPECIES NOR PRIORITY HABITATS OF RARE WILDLIFE ACCORDING TO THE MASSACHUSETTS NATURAL HERITAGE & ENDANGERED SPECIES PROGRAM (NHESP).
5. LOCUS PROPERTY DOES NOT CONTAIN ANY CERTIFIED VERNAL POOLS ACCORDING TO THE MASSACHUSETTS NATURAL HERITAGE.
6. LOCUS PROPERTY DOES NOT FALL WITHIN A.C.E.C.
7. LOCUS PROPERTY DOES NOT FALL WITHIN A ZONE II.

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

OWNER/APPLICANT:
NORTH ATTLEBOROUGH HOUSING AUTHORITY
20 SOUTH WASHINGTON STREET
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PHONE: (508) 695-5142

PROJECT ADDRESS:
ELM TERRACE (667-2)
ELM STREET & HOPE STREET
NORTH ATTLEBOROUGH, MA 02760

REV.	DATE	DESCRIPTION	BY
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COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
1/28/2026

EXISTING CONDITIONS PLAN
ELM TERRACE (667-2)

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

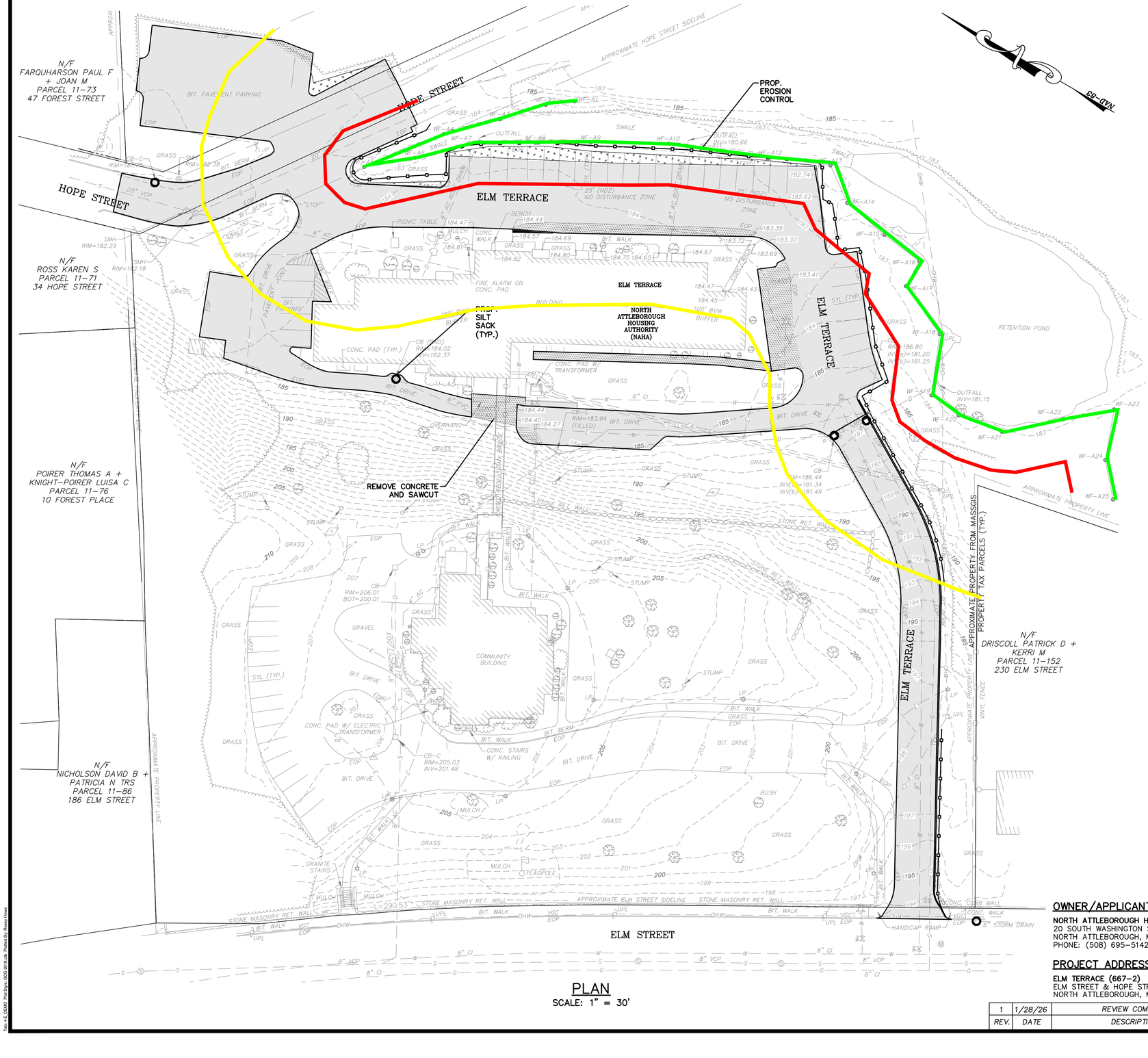
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PLAN NO. 3 OF 8

Tab:3-E EXISTING Plot Style: GCG-2018.ctb Plotted By: Rosey Howe

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ELM TERRACE HOUSING DEVELOPMENT



PLAN
SCALE: 1" = 30'

SITE DEMOLITION LEGEND

- RECLAIM EXISTING ROADWAY OR DRIVEWAY TO A DEPTH OF 15-1/2"
- EXCAVATE NEW AREAS TO SUB GRADE: 15-1/2" BELOW FINISHED GRADE FOR ROADWAYS AND PARKING AREAS, 11" BELOW FINISHED GRADE FOR SIDEWALKS

NOTES:

1. INDIVIDUAL BITUMINOUS CONCRETE ACCESS WALKWAYS LESS THAN 5 FEET WIDE SHALL BE REMOVED AND EXCAVATED TO SUBGRADE AT A MINIMUM OF 5 FEET WIDE. ENTRANCE WALKWAYS GREATER THAN 5 FEET WIDE SHALL BE REMOVED AND EXCAVATED TO SUBGRADE TO THE EXISTING WIDTH.
2. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED AND SEEDED.
3. ALL DRAINAGE FRAMES AND GRATES SHALL REMOVED AND PLATED PRIOR TO RECLAMATION.
4. ALL DRAINAGE STRUCTURES SHALL BE CLEANED UPON COMPLETION OF WORK.

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

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DEMOLITION PLAN
ELM TERRACE (667-2)

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
1/28/2026

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

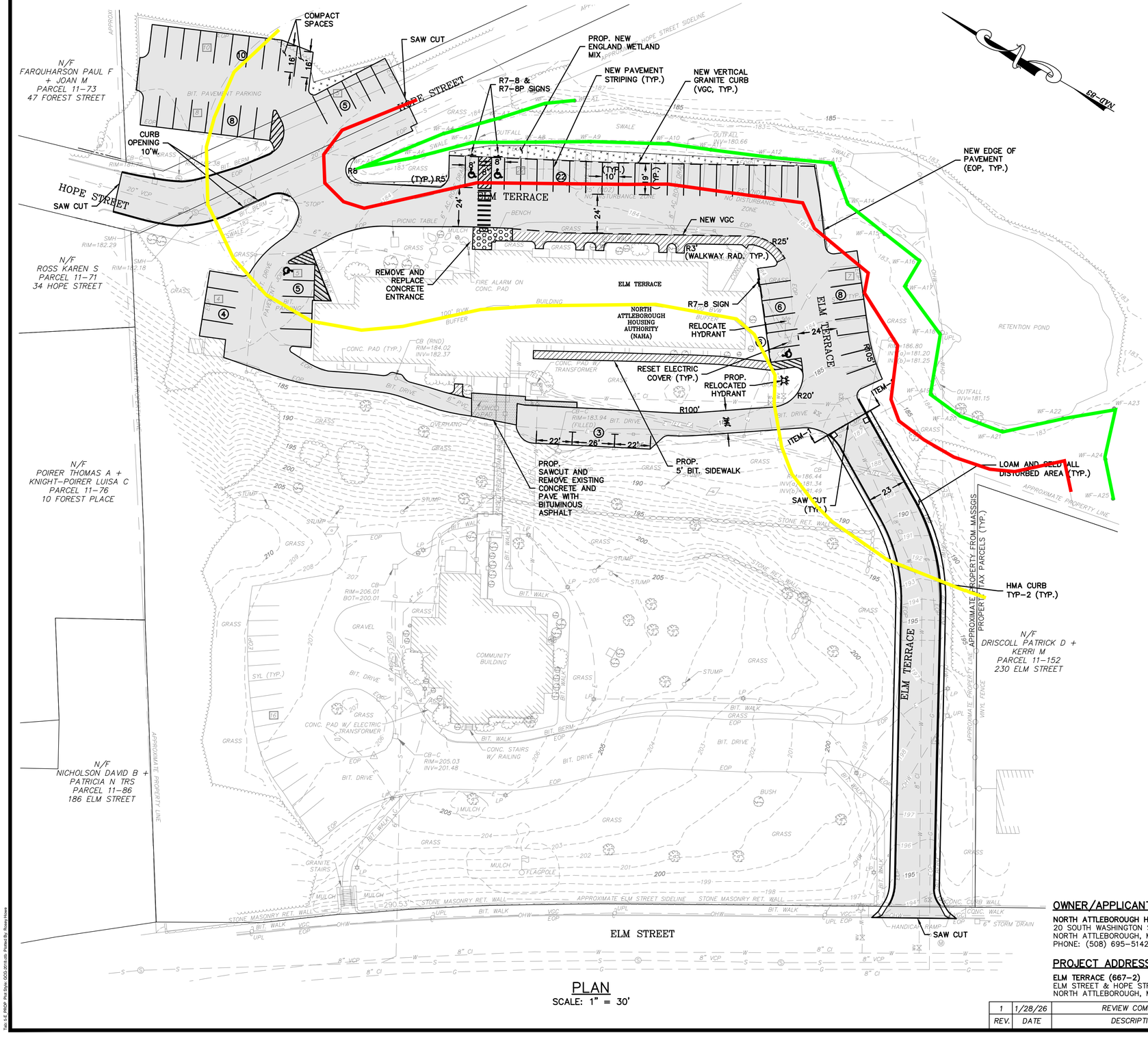
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PLAN NO. 4 OF 8

Tab: 4.E DEMO Plot Style: GCG-2015.ctb Plotted By: Rosey Howe

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ELM TERRACE HOUSING DEVELOPMENT



SITE IMPROVEMENT LEGEND

- ROADWAY & PARKING LOT PAVEMENT, HMA BASE COURSE = 2"; HMA TOP COURSE = 1-1/2"; GRAVEL BASE = 12";
- SIDEWALK/WALKWAY PAVEMENT, HMA BASE COURSE = 1-1/2"; HMA TOP COURSE = 1-1/2"; GRAVEL BASE = 8";
- SAWCUT AND REMOVE EXISTING CONCRETE, ROADWAY & PARKING LOT PAVEMENT, HMA BASE COURSE = 2"; HMA TOP COURSE = 1-1/2"; GRAVEL BASE = 12";
- HANDICAP RAMP, 6" REINFORCED CONCRETE; GRAVEL BASE = 8";
- REMOVE & RESET OR NEW VERTICAL GRANITE CURB
- HOT MIX ASPHALT CURB (CAPE COD BERM)
- [4] EXISTING PARKING SPACE — EXISTING TOTAL PARKING SPACES=34 (ADA/AAB SPACE NOT ASSIGNED)
- (4) PROPOSED PARKING SPACE — PROPOSED TOTAL PARKING SPACES=71 (57 PARKING SPACES, 10 VISITOR SPACE 4 ADA/AAB SPACES)

PLAN
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

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PHONE: (508) 695-5142

PROJECT ADDRESS:
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COMMONWEALTH OF MASSACHUSETTS — MICHAEL J. CARTER — CIVIL — No. 35907 — REGISTERED PROFESSIONAL ENGINEER
1/28/2026

SITE PLAN
ELM TERRACE (667-2)

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

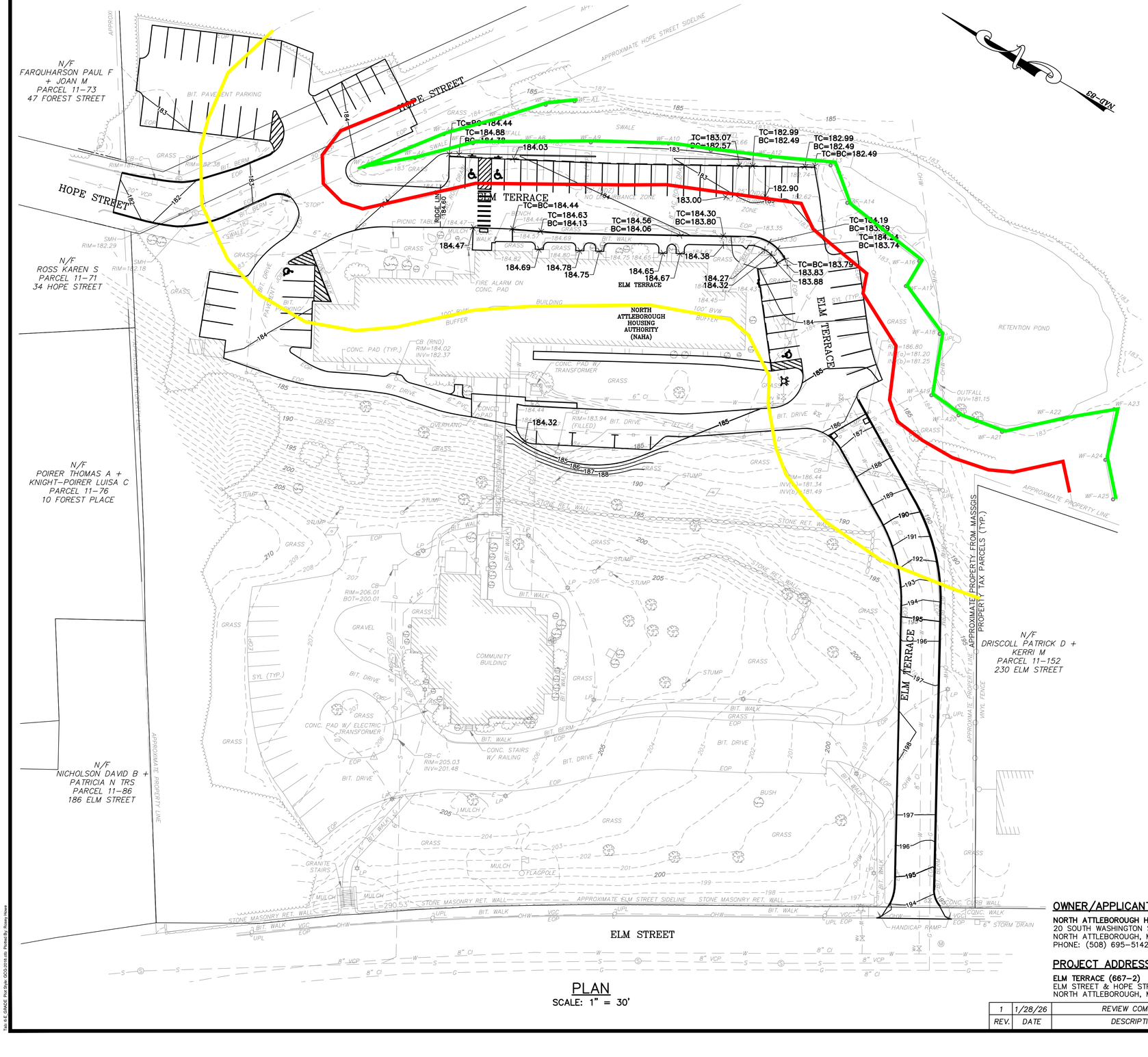
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PLAN NO. 5 OF 8

Tab: 5-E PROP Plot Style: GCG-2019.ctb Plotted By: Rosey Howe

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ELM TERRACE HOUSING DEVELOPMENT



PLAN
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

OWNER/APPLICANT:
NORTH ATTLEBOROUGH HOUSING AUTHORITY
20 SOUTH WASHINGTON STREET
NORTH ATTLEBOROUGH, MA 02760
PHONE: (508) 695-5142

PROJECT ADDRESS:
ELM TERRACE (667-2)
ELM STREET & HOPE STREET
NORTH ATTLEBOROUGH, MA 02760

REV.	DATE	DESCRIPTION	BY
1	1/28/26	REVIEW COMMENTS	L.P.B.

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
1/28/2026

GRADING PLAN
ELM TERRACE (667-2)

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

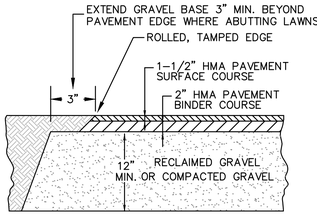
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1" = 30' DATE: DECEMBER 18, 2025

JOB NO.\FILE NAME: 2507-100%_CD - ELM TERRACE.NOI PLAN SET-EDITS - COPY
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 6 OF 8

Tab: 6 E_GRADE Pnt Style: GCG-2018.ctb Plotted By: Rosey Howe

2507-100%_CD - Elm Terrace.NOI Plan Set-edits - Copy.DWG Saved: 1/29/2026 1:19 PM Plotted: Jan 29, 2026 1:20 pm

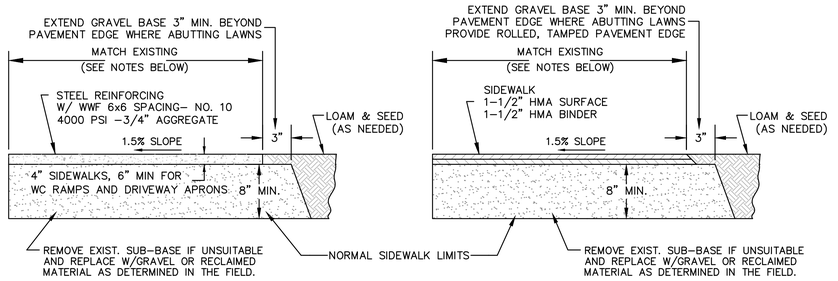


NOTES:

1. PRIOR TO COMPLETING FINAL GRADING OF THE RECLAIMED BASE COURSE THE ENGINEER SHALL REVIEW GRADES TO DETERMINE THAT SUFFICIENT DRAINAGE PATTERNS AND CURB REVEAL ARE MAINTAINED. IF GRADES NEED TO BE ADJUSTED, THE CONTRACTOR SHALL REGRADE AS DIRECTED. THE COST TO PERFORM THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE.
2. PROVIDE JOINT SEALANT WHERE PAVING ABUTS CURBING, WALLS, STEPS, CASTINGS, ETC.

TYPICAL DRIVEWAY & PARKING PAVEMENT SECTION

N.T.S.



CEMENT CONCRETE

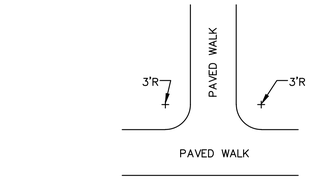
HMA PAVEMENT

NOTES:

1. GRAVEL IN AREAS OF EXISTING SIDEWALKS WHICH ARE BEING REMOVED OR REPLACED IN THE SAME LOCATION SHALL BE REGRADED AND SUPPLEMENTAL GRAVEL ADDED. ADDITIONAL GRAVEL REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE.
2. EXCAVATION AND PLACEMENT OF GRAVEL REQUIRED FOR NEW SIDEWALKS, WIDENING SIDEWALKS AND PAVED AREA SHALL BE INCLUDED IN THE CONTRACT PRICE. DISPOSAL OF THE EXCAVATED MATERIAL SHALL ALSO BE INCLUDED IN THE CONTRACT PRICE.
3. REMOVAL OF STUMPS AND CUTTING AND DISPOSAL OF ROOTS SHALL BE INCLUDED IN THE CONTRACT COST TO CONSTRUCT WALKWAYS.
4. PROVIDE JOINT SEALANT WHERE PAVING ABUTS CURBING, WALLS, STEPS, CASTINGS, ETC.
5. WHERE WALKWAY ABUT TO CONCRETE STEP, INCREASE GRAVEL GRAVEL BASE TO 18" THICK FOR A MINIMUM OF 18" IN FRONT OF THE STEP.

SIDEWALK DETAIL

N.T.S.

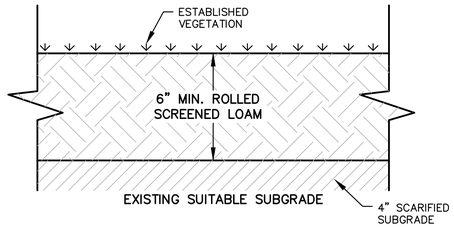


NOTES:

1. ALL WALKWAYS SHALL HAVE A 3' RADIUS AT INTERSECTIONS.

TYPICAL PAVED WALKWAY INTERSECTION DETAIL

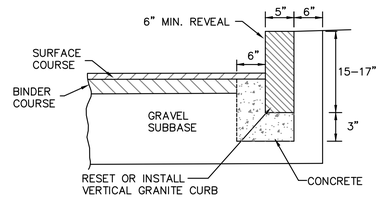
N.T.S.



1. ALL DISTURBED AREAS TO BE LOAMED WITH A MINIMUM OF 6–INCHES OF SCREENED LOAM IN ACCORDANCE WITH MASSACHUSETTS HIGHWAY DEPARTMENT (MHD) STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES SECTION 751. LOAM MATERIAL SHALL MEET MHD M1.05.0 MATERIAL SOURCE AND IN–PLACE LABORATORY ANALYTICAL TESTING OF LOAM FOR COMPLIANCE WITH M1.05.0 MAY BE REQUIRED BY THE OWNER PRIOR TO PLACEMENT AND FINAL ACCEPTANCE.
2. AFTER PLACEMENT, ROLLING AND RAKING OF THE SCREENED TOPSOIL, SEEDING AND FERTILIZING OF THE TOP SOIL SHALL BE IN ACCORDANCE WITH MHD STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES SECTION 765. IF NECESSARY, REFERTILIZATION SHALL OCCUR IN ACCORDANCE WITH MHD SECTION 766.
3. MULCHING SHALL BE IN ACCORDANCE WITH MHD SECTION 767, FOR AREAS SPECIFICALLY INDICATED ON THE DRAWINGS, OR AS FIELD CONDITIONS MAY WARRANT.
4. SEED MIX, FERTILIZER AND MULCHING MATERIALS SHALL COMPLY WITH SECTION M6 OF MHD STANDARD SPECIFICATIONS FOR ROADSIDE DEVELOPMENT MATERIALS. SUBMITTAL REQUIREMENTS MAY INCLUDE PRODUCT LABELS OR LABORATORY ANALYTICAL TESTING, AS MAY BE REQUESTED BY THE OWNER OR THEIR AGENTS.

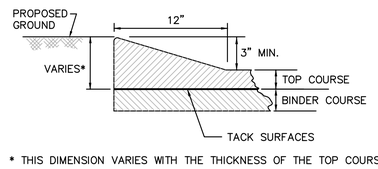
LOAM & SEED

NOT TO SCALE



VERTICAL GRANITE CURB

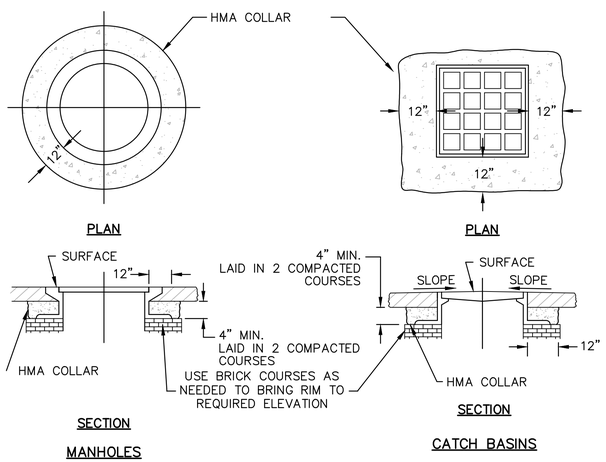
N.T.S.

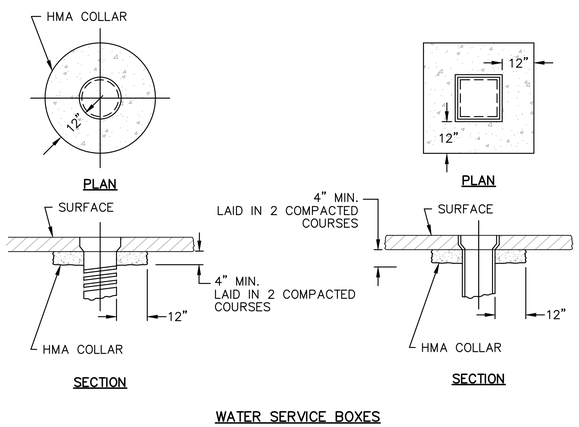


* THIS DIMENSION VARIES WITH THE THICKNESS OF THE TOP COURSE

MONOLITHIC CAPE COD (SHOE) BERM DETAIL

N.T.S.





DETAILS FOR RAISING CASTINGS

N.T.S.

NORTH ATTLEBOROUGH PLANNING BOARD

DATE:

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

DETAILS I – ELM TERRACE

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

MICHAEL J. CARTER CIVIL No. 35907 REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
1/28/2026

GCG ASSOCIATES, INC.
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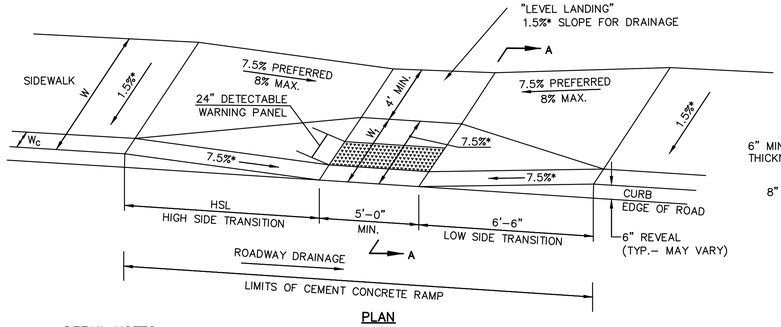
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PLAN NO. 7 OF 8

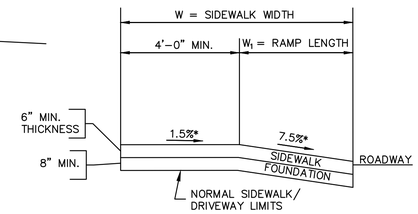
REV.	DATE	DESCRIPTION	BY
1	1/28/26	REVIEW COMMENTS	L.P.B.

Tab: I-E DETAILS I Plot Style: GCG 2018.ctb Plotted By: Rosey Howe

2507-100%_CD - Elm Terrace.NOI Plan Set-edits - Copy.DWG Saved: 1/29/2026 12:17 PM Plotted: Jan 29, 2026 12:27 pm

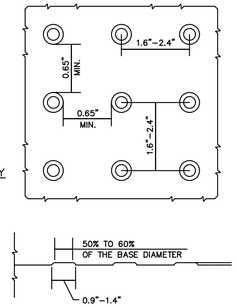


PLAN



* = TOLERANCE FOR CONSTRUCTION ±0.5%
USEABLE SIDEWALK WIDTH PER ABB = W–Wc
RAMP LENGTH, W1 = W – (4'–0") MIN.

SECTION A–A



STAMPED CONCRETE
DETECTABLE WARNING PANEL

N.T.S.

DETAIL NOTES:

1. ALL HANDICAP RAMPS SHALL BE PORTLAND CEMENT CONCRETE 6" THICK.
2. CURBING FOR ALL CONCRETE RAMPS SHALL BE VERTICAL GRANITE CURB (Wc=6") OR SLOPED GRANITE CURB (Wc=0"), SEE PLAN FOR TYPE.
3. THE DIMENSIONS SHOWN AT ROADWAY EDGE ARE FIXED DISTANCES.
4. RAMP CROSS SECTION TO BE SAME AS ADJACENT SIDEWALK; e.g DEPTH OF SURFACES.
5. PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY BROOMING IN A DIRECTION PARALLEL TO THE LENGTH OF THE RAMP.
6. THESE DIMENSIONS ARE SUBJECT TO CHANGE IN THE FIELD IF EXISTING APPURTENANCES OR CONDITIONS WILL MAKE THE RAMP LOCATIONS IMPRACTICAL OR UNSAFE.

ROADWAY PROFILE GRADE %	*HIGH SIDE TRANSITION LENGTH
0	6'–6"
> 0 – 1	7'–8"
> 1 – 2	9'–0"
> 2 – 3	11'–0"
> 3 – 4	14'–0"
> 4	15'–0" MAX.

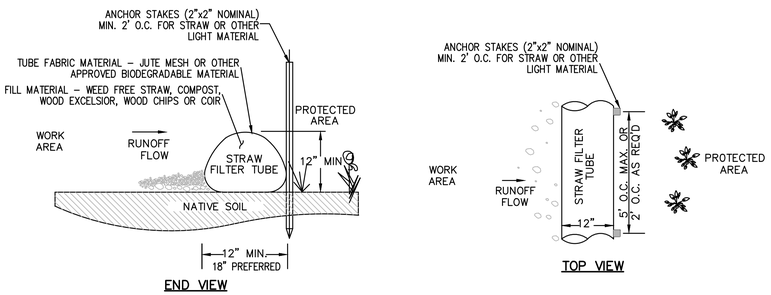
* BASED ON DESIGN SLOPE = 7.5% AND A CURB REVEAL OF 6".

CURB TRANSITION LENGTH
FOR WHEELCHAIR RAMPS

WHEELCHAIR RAMP NOTES

1. ROADWAY SIDEWALK CROSS SLOPES, FOR BRICK, CEMENT CONCRETE, AND HMA, AS INDICATED IN THE STANDARD SPECIFICATIONS, WILL BE 1.5%. A CONSTRUCTION TOLERANCE OF ±0.5% IS ACCEPTABLE ON ROADWAY SIDEWALKS. IN ACCORDANCE WITH 521 CMR THE RULES AND REGULATIONS OF THE ARCHITECTURAL ACCESS BOARD (AAB), THE SIDEWALK CROSS SLOPE CANNOT EXCEED 2.0%.
2. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'–3" SHALL BE MAINTAINED PAST ALL OBSTRUCTIONS (UTILITY POLES, SIGNS, SIGNAL FOUNDATIONS AND MASTS, MAILBOXES, ALONG DRIVE OPENINGS, ETC.).
3. THE WHEELCHAIR RAMP SLOPES AND SIDE SLOPES (TRANSITIONS) WILL BE 7.5% WITH A CONSTRUCTION TOLERANCE OF ±0.5%. HOWEVER, THESE SLOPES MAY BE FLATTER WHEN WARRANTED BY SURROUNDING CONDITIONS.
4. IF THE ROAD PROFILE EXCEEDS 4%, THE HIGH SIDE TRANSITION LENGTH UNDER ANY CONDITIONS NEED NOT EXCEED 15'.
5. IN NO CASE WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED ON THE TRAFFIC APPROACH SIDE OF THAT STOP LINE.
6. FIXED OBJECTS (I.E. UTILITY POLES, HYDRANTS, SIGNS, SIGNAL FOUNDATIONS, ETC.) MUST NOT ENCROACH UPON ANY PART OF THE WHEELCHAIR RAMP INCLUDING TRANSITION SLOPES.
7. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP, EXCLUDING CURB TRANSITIONS, TO BE LOCATED OUTSIDE THE CROSSWALK OR PEDESTRIAN TRAVEL PATH. THE WHEELCHAIR RAMP ENTRANCE IS TO BE CENTERED IN THE CROSSWALK OR PEDESTRIAN TRAVEL PATH WHENEVER POSSIBLE.
8. CATCH BASINS WHICH ARE IN THE VICINITY OF A WHEELCHAIR RAMP SHALL BE LOCATED UPGRADE OF THE RAMP ENTRANCE.
9. THE ENTRANCE OF A WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
10. TESTING SURFACE: WHEN TESTING WITH A STRAIGHTEDGE PLACED PARALLEL TO THE LINE OF THE SLOPE THERE SHALL BE NO DEVIATION FROM A TRUE SURFACE IN EXCESS OF 1/4".
11. SIDEWALK CONSTRUCTION SHALL BE IN CONFORMANCE WITH MASS HIGHWAY CONSTRUCTION STANDARDS FOR WHEELCHAIR RAMPS.

TYPICAL WHEELCHAIR RAMP CONDITION
N.T.S.



END VIEW

TOP VIEW

NOTES:
1. TUBES MAY BE FILLED ON SITE OR SHIPPED.
2. ENSURE PROPER LOCATION AT SITE FOR EFFECTIVENESS.
3. TUBES SHALL BE PLACED AND STAKED IN PLACE AS REQUIRED TO ENSURE STABILITY AGAINST WATER FLOWS.
4. TUBES FILLED WITH LIGHT MATERIAL SHALL BE STAKED AT A MAXIMUM OF 2 FEET ON CENTER. FOR HEAVIER MATERIAL, 5 FEET ON CENTER.
5. TUBES SHALL BE TAMPED TO ENSURE GOOD CONTACT WITH SOIL.
6. INSPECT AFTER EACH RAINFALL OR DAILY DURING RAINFALL EVENTS. CORRECT ALL DEFICIENCIES IMMEDIATELY.
7. FAILURE INCLUDES BUT IS NOT LIMITED TO WASHOUT, OVERTOPPING, CLOGGING, AND EROSION. IF OVERTOPPING OR WASHOUT OCCURS, NEW FILTER TUBES WITH ADDITIONAL STAKING OR STRAW MATERIAL SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
8. FILTER TUBES SHALL BE REMOVED ONCE SITE WORK IS COMPLETE, SITE IS STABLE, ADEQUATE GROWTH HAS BEEN ESTABLISHED AND AS DIRECTED BY THE ENGINEER. TUBE FABRIC SHALL BE CUT, REMOVED AND DISPOSED OF OFF–SITE BY THE CONTRACTOR AT NO ADDITIONAL COST.

STRAW FILTER TUBE DETAIL

EROSION AND SEDIMENT CONTROL MAINTENANCE

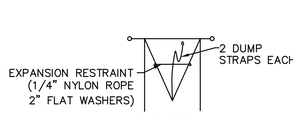
DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED OR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING AS TO PREVENT EROSION.

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF REQUEST.

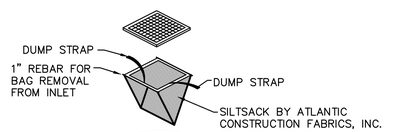
THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FORM ALL DRAINAGE STRUCTURES, AND PIPES AT THE COMPLETION ON CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

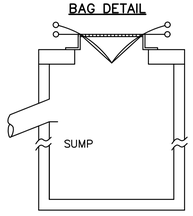
TRENCHES WITHIN PAVED ROADWAY TO BE CLOSED WITH 3" TEMPORARY PAVEMENT AT THE END OF EACH WORK DAY.

CONTRACTOR TO PERFORM STREET SWEEPING AT THE END OF EACH WORK DAY.



BAG DETAIL



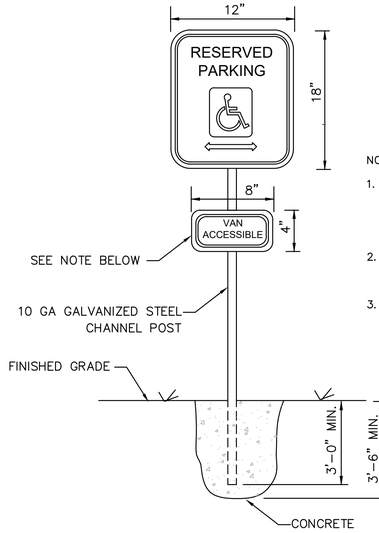


INSTALLATION DETAIL

1. SILT SACKS SHALL BE INSTALLED IN ALL CATCH BASINS DURING CONSTRUCTION PERIOD.
2. INSPECTION SHALL BE WEEKLY AND REPAIR/REPLACEMENT MADE PROMPTLY AS NEEDED.
3. SILT SACKS SHALL BE KEPT CLEAN AND FREE OF DEBRIS.

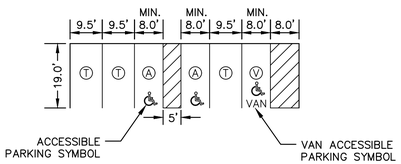
SILTSACK DETAIL
N.T.S.

R7-8



NOTES:
1. INSTALL NEW SIGNS AT HANDICAP PARKING LOCATIONS. EXISTING ACCESSIBLE PARKING SIGNS MAY BE REUSED AT THE DISCRESSION OF THE ENGINEER OR HOUSING AUTHORITY.
2. HANDICAP SPACES ADJACENT TO 8' WIDTH PAINTED AISLES SHALL HAVE THE ADDITIONAL VAN ACCESSIBLE SIGN.
3. SIGNAGE SHALL COMPLY WITH 521 CMR 23.6. SUCH SIGN SHALL BE NO LESS THAN FIVE FEET NOR MORE THAN EIGHT FEET TO THE TOP OF THE SIGN.

HANDICAP SIGN AND FOOTING DETAIL
N.T.S.



A – ACCESSIBLE PARKING SPACE
T – TYPICAL PARKING SPACE
V – VAN ACCESSIBLE PARKING SPACE

NOTES:
1. VAN ACCESSIBLE SPACES MUST HAVE AN 8' WIDE MINIMUM ACCESS AISLE.
2. ALL OTHER ACCESS AISLES SHALL BE 5' WIDE, MINIMUM.
3. TYPICAL PARKING STALLS SHALL BE 9' WIDE UNLESS NOTED ON THE PLANS.
4. ACCESSIBLE SPACES AND AISLES 2% MAX SLOPE IN ANY DIRECTION.
5. RE–NUMBER PARKING SPACES WHERE APPLICABLE.

TYPICAL LINE STRIPING DETAIL
N.T.S.

NORTH ATTLEBOROUGH PLANNING BOARD

_____
_____
_____
_____
_____
_____
_____
_____
DATE: _____

100% CONSTRUCTION DOCUMENTS
EOHLC PROJECT #197161

REV.	DATE	DESCRIPTION	BY
1	1/28/26	REVIEW COMMENTS	L.P.B.

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. CARTER
CIVIL
No. 35907
REGISTERED PROFESSIONAL ENGINEER
1/28/2026

DETAILS II – ELM TERRACE

PARKING LOT & WALKWAY UPGRADES
NORTH ATTLEBOROUGH HOUSING AUTHORITY
NORTH ATTLEBOROUGH, MASSACHUSETTS

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: NOT TO SCALE DATE: DECEMBER 18, 2025

JOB NO.\FILE NAME: 2507–100%_CD – ELM TERRACE.NOI PLAN SET–EDITS – COPY
DESIGNED BY: W.R.H.
DRAWN BY: W.R.H.
CHECKED BY: M.J.C.
PLAN NO. 8 OF 8

Title: B.E. DETAILS II Plot Style: GCG-2016.ctb Plotted By: Rosey Howe

2507-100%_CD - Elm Terrace.NOI Plan Set-edits - Copy.DWG Saved: 1/29/2026 12:17 PM Plotted: Jan 29, 2026 12:28 pm

Zandvoort98@gmail.com
508-316-3131
306 Mt. Hope St.
N. Attleboro, MA 02760

January 15, 2026

North Attleboro
Conservation Commission
43 South Washington Street
North Attleboro, MA 02760

Ref: Notice of Intent
306 Mount Hope Street

Dear Members of the Commission:

I am pleased to submit the enclosed Notice of Intent under both the Wetlands Protection Act and the Town of North Attleboro Wetlands Protection Bylaw to perform work associated with the retrofit of an existing dock, the repair of stairs, the removal of trees, and the planting of new trees on Falls Pond. Please find the following enclosed in support of the application:

- One copy of a Notice of Intent booklet which contains the fully executed Form 3 Notice of Intent and a variety of supporting information and attachments;
- Two full-size copies of the site plan;
- A copy of the NOI Checklist; and
- A check in the amount of $67.50 made payable to the Town of North Attleboro for the Town's portion of the state filing fee.

Please note that an electronic copy of all submitted documents has also been submitted via email. Please do not hesitate to contact me if you have any questions or comments.

Sincerely,

Bruce Haughton

Town of North Attleborough
CONSERVATION COMMISSION
43 S. Washington St, North Attleboro, MA 02760 I P 508.699.0125 I www.nattleboro.com/conservation-commission

INSTRUCTIONS FOR FILING NOTICE OF INTENT (WPA FORM 3)

The Massachusetts Wetlands Protection Act (General Law Chapter 131, Section 40) prohibits the removal, dredging, filling, or altering of wetlands without a permit. To obtain a permit (called an Order of Conditions); a project proponent must apply to the Conservation Commission and the Department of Environmental Protection (DEP). The Notice of Intent (NOI) application provides the Conservation Commission with a complete description of the site and proposed work for the Commission to make an informed decision on the project and the issuance of an Order of Conditions.

PLEASE SUBMIT THE FOLLOWING TO THE COMMISSION INCLUDING THIS CHECKLIST:
These instructions are *in addition* to the MA Department of Environmental Protection (DEP) instructions and submittal requirements for filing an NOI. Please refer to 310 CMR 10.00 and *DEP Instructions for Completing Application WPA Form 3*.

Property Location: 306 Mount Hope Street

NOI CHECKLIST

Supporting plans and calculations (e.g. wildlife habitat evaluation, hydraulic calculations, etc.) shall be signed and stamped MA Registered Professional Engineer or other related professional, unless otherwise approved by the Commission.

☑ locus map – a USGS or other map showing location of project site in town

☑ WPA Form 3 – complete and signed by the property owner/applicant

☑ written narrative

- ☑ short description of existing conditions and proposed work
- ☑ explanation of how the Vegetated Wetland boundaries were determined, if applicable

☑ site plan – paper no larger than 24" by 36", scale no larger than 1" = 40'

- ☑ plan title
- ☑ date (and date of latest revision, if multiple plan versions have been submitted)
- ☑ all Resource Areas regulated by the WPA (e.g. Riverfront Area, BVW, Vernal Pool), noting the date of delineation and who performed it
- ☐ for streams/rivers, show direction of flow
- ☑ buffer zones – 100' buffer zone as applicable, 25' No Disturb. Zone (NDZ)

  Recommended format: wetland boundary (green), NDZ (red), 100' buffer zone (yellow), Riverfront Area (pink), land subject to flooding (orange), bank (blue); consider dashed, dotted lines
- ☑ directional arrow (e.g. North ↑)

☑ all existing structures and other notable features like tree areas, septic tanks, driveways…
☑ erosion control is appropriate to protect wetland resource, serve as boundary of work area
☑ all proposed work (e.g. any tree clearing, stockpiles of material, new structures…)
☑ dimensions of proposed work
☑ minimum distance from erosion control (limit of proposed work) to wetland/resource area

ABUTTER NOTIFICATION:

☑ certified list from the Town of North Attleboro Assessors Office for all abutters within 100'
☑ Notification to Abutters Under the Massachusetts Wetlands Protection Act sent to each abutter via USPS certified mail or certificate of mailing, or by hand delivery

☐ *if case is being made that a nearby or present stream is not perennial, give sufficient evidence*

☐ *for project subject to the Stormwater Regulations (310 CMR 10.05(6)(k)-(q)), provide the Stormwater Report, Stormwater Report Checklist, and Registered Professional Engineer's Certification that the project conforms to the Stormwater Regulations and meets acceptable engineering standards. The report shall include narrative describing the design measures (e.g. LID) taken to minimize runoff.*

☐*for project subject to the N. Attleboro Stormwater Bylaw, reporting shall document how it complies with the associated regulations (Stormwater Management and Land Disturbance Regulations)*

SUBMISSION

Filing must happen simultaneously with the DEP and Conservation Commission both.

☑ full application packet to the DEP:

Department of Environmental Protection
Southeast Regional Office
20 Riverside Drive
Lakeville, MA 02347 / sero_noi@mass.gov / https://edep.dep.mass.gov/

☑ full application packet (including **checklist**) to the Commission:

☑ one physical copy by hand delivery or certified mail; additional copy of site plan, folded if possible
☑ one digital copy by email or thumb drive
☑ check made out to the "Town of North Attleboro" for local portion of fee

Upon receipt of the submittal requirements set forth above and in the WPA Form 3-*Instructions and Supporting Materials for NOI*, a public hearing will be scheduled in accordance with 310 CMR 10.05(5

You are responsible for the newspaper ad cost (to be determined) and this shall be paid ahead of your hearing with the Commission. You may write a check payable to "The Sun Chronicle". You can also pay The Sun Chronicle by credit card, noting that our office must have a receipt.

Finally, either the applicant or representative must attend the meeting on the scheduled date. We are likely to send you a reminder with these details ahead of time.

Any questions regarding these instructions should be directed to the Conservation Department at 508.699.0100 x2584 or smccrory@nattleboro.com. Thank you.

Notice of Intent

For

306 Mount Hope Street North Attleboro, MA

Proposed Dock Retrofit & Landscaping

January 15, 2026

PREPARED BY:
Drew Haughton
306 Mount Hope St.
North Attleboro, MA

PREPARED For:
Bruce Haughton
306 Mount Hope St.
North Attleboro, MA

The WPA Form 3 Application is also hereby submitted under the North Attleboro Wetlands Protection By-law

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WPA FORM 3: Notice of Intent

Supplemental Information Referenced in the Notice of Intent:

WPA Form 3 – Notice of Intent pursuant to the Massachusetts Wetlands Protection Act and the Town of North Attleboro Wetlands Protection By-law. The following identifies additional information pursuant to the various sections within Form 3:

- A.5 See Appendix A for the Wetland Fee Transmittal Form
- A.6 See the Narrative Description for additional description of the proposed redevelopment
- D.1 See Appendix C for locus maps
- D.2 See Appendix E for the site plan
- D.3 See the Narrative Description for a discussion of the resource areas on the site
- D.4 The plans and supporting information submitted within this application are identified in the various Appendices noted herein
- D.8 See Appendix A for the Wetland Fee Transmittal Form

Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username:	**DHAUGHTON**
Transaction ID:	**1977388**
Document:	**WPA Form 3 - NOI**
Size of File:	**272.57K**
Status of Transaction:	**In Process**
Date and Time Created:	**1/15/2026:12:27:02 PM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to “Download a Copy” from the Current Submittals page.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 3 - Notice of Intent
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1977388
City/Town:NORTH ATTLEBOROUGH

A. General Information

1. Project Location:

a. Street Address	306 MT. HOPE ST.		
b. City/Town	NORTH ATTLEBOROUGH	c. Zip Code	02760
d. Latitude	41.96550N	e. Longitude	71.32262W
f. Map/Plat #	24	g.Parcel/Lot #	378

2. Applicant:

☑ Individual ☐ Organization

a. First Name	BRUCE	b.Last Name	HAUGHTON		
c. Organization					
d. Mailing Address	306 MT. HOPE ST.				
e. City/Town	NORTH ATTLEBORO	f. State	MA	g. Zip Code	02760
h. Phone Number	508-212-1869	i. Fax		j. Email	ZANDVOORT98@GMAIL.COM

3.Property Owner:

☐ more than one owner

a. First Name	BRUCE	b. Last Name	HAUGHTON		
c. Organization					
d. Mailing Address	306 MT. HOPE ST.				
e. City/Town	NORTH ATTLEBORO	f.State	MA	g. Zip Code	02760
h. Phone Number	508-212-1869	i. Fax		j.Email	ZANDVOORT98@GMAIL.COM

4.Representative:

a. First Name		b. Last Name	
c. Organization			
d. Mailing Address			
e. City/Town	f. State		g. Zip Code
h.Phone Number	i.Fax		j.Email

5.Total WPA Fee Paid (Automatically inserted from NOI Wetland Fee Transmittal Form):

a.Total Fee Paid	110.00	b.State Fee Paid	42.50	c.City/Town Fee Paid	67.50

6.General Project Description:

DOCK RETROFIT, STAIR REPAIR, TREE REMOVAL, TREE PLANTING AT FALLS POND.

7a.Project Type:

1. ☑ Single Family Home	2. ☐ Residential Subdivision
3. ☐ Limited Project Driveway Crossing	4. ☐ Commercial/Industrial
5. ☑ Dock/Pier	6. ☐ Utilities
7. ☐ Coastal Engineering Structure	8. ☐ Agriculture (eg., cranberries, forestry)
9. ☐ Transportation	10. ☐ Other

7b.Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. ☐ Yes ☑ No If yes, describe which limited project applies to this project:
2. Limited Project

8.Property recorded at the Registry of Deeds for:

a.County:	b.Certificate:	c.Book:	d.Page:
NORTHERN BRISTOL		10136	245

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

1.Buffer Zone & Resource Area Impacts (temporary & permanent):

☐ This is a Buffer Zone only project - Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.

2.Inland Resource Areas: (See 310 CMR 10.54 - 10.58, if not applicable, go to Section B.3. Coastal Resource Areas)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☑ Bank	6 1. linear feet	0 2. linear feet
b. ☐ Bordering Vegetated Wetland	1. square feet	2. square feet
c. ☑ Land under Waterbodies and Waterways	20 1. Square feet	0 2. square feet
	0 3. cubic yards dredged	
d. ☑ Bordering Land Subject to Flooding	50 1. square feet	0 2. square feet
	0 3. cubic feet of flood storage lost	0 4. cubic feet replaced
e. ☐ Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced

f. ☐ Riverfront Area

1. Name of Waterway (if any)

2. Width of Riverfront Area (check one)
☐ 25 ft. - Designated Densely Developed Areas only
☐ 100 ft. - New agricultural projects only
☐ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project
square feet

4. Proposed Alteration of the Riverfront Area:

a. total square feet | b. square feet within 100 ft. | c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI? ☐ Yes ☐ No

6. Was the lot where the activity is proposed created prior to August 1, 1996? ☐ Yes ☐ No

3. Coastal Resource Areas: (See 310 CMR 10.25 - 10.35)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☐ Designated Port Areas	Indicate size under	Land under the ocean below,
b. ☐ Land Under the Ocean	1. square feet 2. cubic yards dredged	
c. ☐ Barrier Beaches	Indicate size under Coastal Beaches and/or Coatstal Dunes, below	
d. ☐ Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. ☐ Coastal Dunes	1. square feet	2. cubic yards dune nourishment
f. ☐ Coastal Banks	1. linear feet	
g. ☐ Rocky Intertidal Shores	1. square feet	
h. ☐ Salt Marshes	1. square feet	2. sq ft restoration, rehab, crea.
i. ☐ Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. ☐ Land Containing Shellfish	1. square feet	
k. ☐ Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. ☐ Land Subject to Coastal Storm Flowage	1. square feet	

4. Restoration/Enhancement

☐ Restoration/Replacement

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please entered the additional amount here.

a. square feet of BVW b. square feet of Salt Marsh

5. Projects Involves Stream Crossings

☐ Project Involves Streams Crossings

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.

a. number of new stream crossings b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage of Endangered Species program (NHESP)?

a. ☐ Yes ☑ No

If yes, include proof of mailing or hand delivery of NOI to:
Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

b. Date of map:FROM MAP VIEWER

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18)....

c. Submit Supplemental Information for Endangered Species Review * (Check boxes as they apply)

1. ☐ Percentage/acreage of property to be altered:

(a) within Wetland Resource Area percentage/acreage

(b) outside Resource Area percentage/acreage

2. ☐ Assessor's Map or right-of-way plan of site

3. ☐ Project plans for entire project site, including wetland resource areas and areas outside of wetland jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

a. ☐ Project description (including description of impacts outside of wetland resource area & buffer zone)

b. ☐ Photographs representative of the site

c. ☐ MESA filing fee (fee information available at: http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/mesa-fee-schedule.html)
Make check payable to "Natural Heritage & Endangered Species Fund" and **mail to NHESP** at above address

*Projects altering **10 or more acres** of land, also submit:*

d. ☐ Vegetation cover type map of site

e. ☐ Project plans showing Priority & Estimated Habitat boundaries

d. OR Check One of the following

1. ☐ Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/eea/agencies/dfg/dfw/laws-regulations/cmr/321-cmr-1000-massachusetts-endangered-species-act.html#10.14; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. ☐ Separate MESA review ongoing.

a. NHESP Tracking Number

b. Date submitted to NHESP

3. ☐ Separate MESA review completed.

Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review...

2. For coastal projects only, is any portion of the proposed project located below the mean high waterline or in a fish run?
   a. ☑ Not applicable - project is in inland resource area only
   b. ☐ Yes ☐ No

   If yes, include proof of mailing or hand delivery of NOI to either:

   South Shore - Cohasset to Rhode Island, and the Cape & Islands:

   Division of Marine Fisheries -
   Southeast Marine Fisheries Station
   Attn: Environmental Reviewer
   836 S. Rodney French Blvd
   New Bedford, MA 02744

   North Shore - Hull to New Hampshire:

   Division of Marine Fisheries -
   North Shore Office
   Attn: Environmental Reviewer
   30 Emerson Avenue
   Gloucester, MA 01930

   If yes, it may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional office.

3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

   a. ☐ Yes ☑ No

   If yes, provide name of ACEC (see instructions to WPA Form 3 or DEP Website for ACEC locations). **Note:** electronic filers click on Website.

   b. ACEC Name

4. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
   a. ☐ Yes ☑ No

5. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L.c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L.c. 130, § 105)?
   a. ☐ Yes ☑ No

6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
   a. ☐ Yes, Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:

      1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook ☐ Vol.2, Chapter 3)

      2. ☐ A portion of the site constitutes redevelopment

      3. ☐ Proprietary BMPs are included in the Stormwater Management System

   b. ☑ No, Explain why the project is exempt:

      1. ☑ Single Family Home

      2. ☐ Emergency Road Repair

      3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family

☐ housing project) with no discharge to Critical Areas.

D. Additional Information

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department by regular mail delivery.

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the
☑ Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland
☑ [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s).
☑ Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
4. List the titles and dates for all plans and other materials submitted with this NOI.
☑

a. Plan Title:	b. Plan Prepared By:	c. Plan Signed/Stamped By:	c. Revised Final Date:	e. Scale:
306 MT. HOPE ST. CONSERVATION PLAN OF LAND IN NORTH ATTLEBORO, MA	DREW HAUGHTON	DREW HAUGHTON	2026-01-15	1"=20'

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
☐
6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
☐
7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
☐
8. Attach NOI Wetland Fee Transmittal Form.
☐
9. Attach Stormwater Report, if needed.
☐

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

North Attleboro
City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant	2. Date: Jan 15, 2026
3. Signature of Property Owner (if different)	4. Date
5. Signature of Representative (if any)	6. Date

For Conservation Commission:
Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:
One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

APPENDIX A: Fee Transmittal and Fee Calculation Worksheet

Under the Wetlands Protection Act

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 3 - Notice of Wetland FeeTransmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1977388
City/Town:NORTH ATTLEBOROUGH

A. Applicant Information

1. Applicant:

a. First Name	BRUCE	b.Last Name	HAUGHTON		
c. Organization					
d. Mailing Address	306 MT. HOPE ST.				
e. City/Town	NORTH ATTLEBORO	f. State	MA	g. Zip Code	02760
h. Phone Number	5082121869	i. Fax		j. Email	ZANDVOORT98@GMAIL.COM

2. Property Owner:(if different)

a. First Name	BRUCE	b. Last Name	HAUGHTON		
c. Organization					
d. Mailing Address	306 MT. HOPE ST.				
e. City/Town	NORTH ATTLEBORO	f.State	MA	g. Zip Code	02760
h. Phone Number	5082121869	i. Fax		j.Email	ZANDVOORT98@GMAIL.COM

3. Project Location:

a. Street Address	306 MT. HOPE ST.	b. City/Town	NORTH ATTLEBOROUGH

Are you exempted from Fee? ☐

Note: Fee will be exempted if you are one of the following:

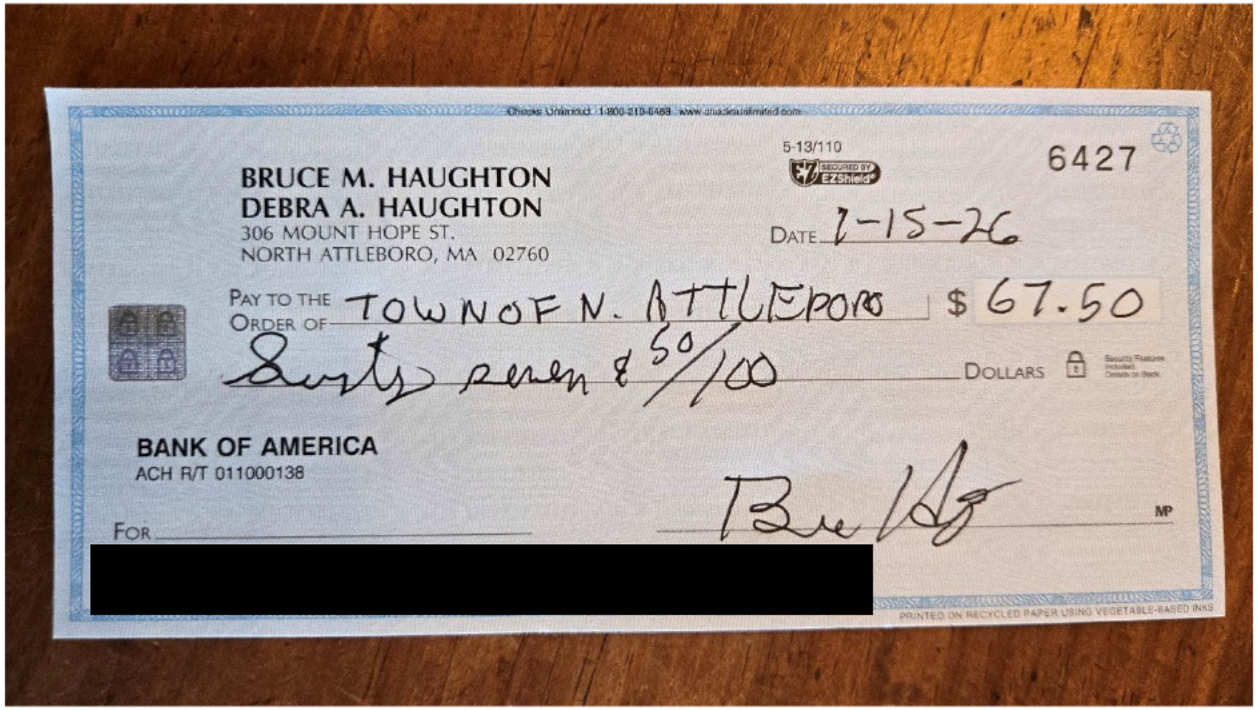
- City/Town/County/District
- Municipal Housing Authority
- Indian Tribe Housing Authority
- MBTA

State agencies are only exempt if the fee is less than $100

B. Fees

Activity Type	Activity Number	Activity Fee	RF Multiplier	Sub Total
A.) WORK ON SINGLE FAMILY LOT; ADDITION, POOL, ETC.;	1	110.00		110.00

City/Town share of filling fee	State share of filing fee	Total Project Fee
$67.50	$42.50	$110.00



Checks Unlimited 1-800-210-0468 www.checksunlimited.com

5-13/110

6427

BRUCE M. HAUGHTON
DEBRA A. HAUGHTON
306 MOUNT HOPE ST.
NORTH ATTLEBORO, MA 02760

DATE 1-15-26

PAY TO THE ORDER OF TOWN OF N. ATTLEBORO $ 67.50

Sixty seven & 50/100 DOLLARS

BANK OF AMERICA
ACH R/T 011000138

FOR [redacted]

MP

PRINTED ON RECYCLED PAPER USING VEGETABLE-BASED INKS

APPENDIX B: Affidavit of Service and Abutter Notification

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

(to be submitted to the Massachusetts Department of
Environmental Protection and the Conservation Commission
when filing a Notice of Intent)

I, Bruce Haughton, hereby certify under the pains and penalties of perjury that on January 15, 2026, I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the **DEP Guide to Abutter Notification** date April 8, 1994, in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by Bruce Haughton with the North Attleboro Conservation Commission on January 15, 2026 for property located at 306 Mount Hope Street.

The form of the notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.

Signature

Jan 15, 2026
Date

Notification to Abutters

By Hand Delivery, Certified Mail (return receipt requested), or Certificates of Mailing

This is a notification required by law. You are receiving this notification because you have been identified as the owner of land abutting another parcel of land for which certain activities are proposed. Those activities require a permit under the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40).

In accordance with the second paragraph of the Massachusetts Wetlands Protection Act, and 310 CMR 10.05(4)(a) of the Wetlands Regulations, you are hereby notified that:

A. A Notice of Intent was filed with the North Attleboro Conservation Commission on January 15, 2026 seeking permission to remove, fill, dredge, or alter an area subject to protection under M.G.L. c. 131 §40. The following is a description of the proposed activity/activities:

Dock retrofit, stair repair, tree removal, and planting of new trees

B. The name of the applicant is: Bruce Haughton.

C. The address of the land where the activity is proposed is: 306 Mount Hope Street, Map 24 Parcel 378.

D. Copies of the Notice of Intent may be examined or obtained at the office of the North Attleboro Conservation Commission, located at 43 South Washington Street. The regular business hours of the Commission are M-TH 8AM-4:30PM & F 8AM-Noon, and the Commission may be reached at 508-699-0100 Ext. 2584.

E. Copies of the Notice of Intent may be obtained from the applicant by calling Bruce Haughton at 508-316-3131.

F. Information regarding the date, time, and location of the public hearing regarding the Notice of Intent may be obtained from the North Attleboro Conservation Commission. Notice of the public hearing will be published at least five business days in advance, in the local newspaper.

Notification provided pursuant to the above requirement does not automatically confer standing to the recipient to request Departmental Action for the underlying matter. See 310 CMR 10.05(7)(a)4.

TOWN OF NORTH ATTLEBOROUGH
BOARD OF ASSESSORS
43 South Washington Street
North Attleborough, Ma 02760
Phone: (508)-699-0117 Fax: (508)-643-3372

John V. Bellissimo, *Chairman*
Paul B. Pinsonnault
Gene Morris

Cheryl Smith
Assistant Assessor

CERTIFIED ABUTTERS LIST

Date:	1/7/2026
Location:	306 MT HOPE ST
Map/Lot:	24/378/
Current Owner of Record (as of Jan. 1, 2025)	HAUGHTON BRUCE M + DEBRA A
Mailing Address:	306 MT HOPE ST N ATTLEBORO, MA 02760
Board Prepared For:	CONSERVATION
Applicant:	BRUCE HAUGHTON
Phone:	508-316-3131
E-Mail:	ZANDVOORT98@GMAIL.COM

In accordance with Section 11, Chapter 40A, as amended, we hereby certify that based on the records of this office and to the best of our knowledge and belief, the attached list are the names and addresses of the abutters to the above referenced property.

NORTH ATTLEBOROUGH BOARD OF ASSESSORS

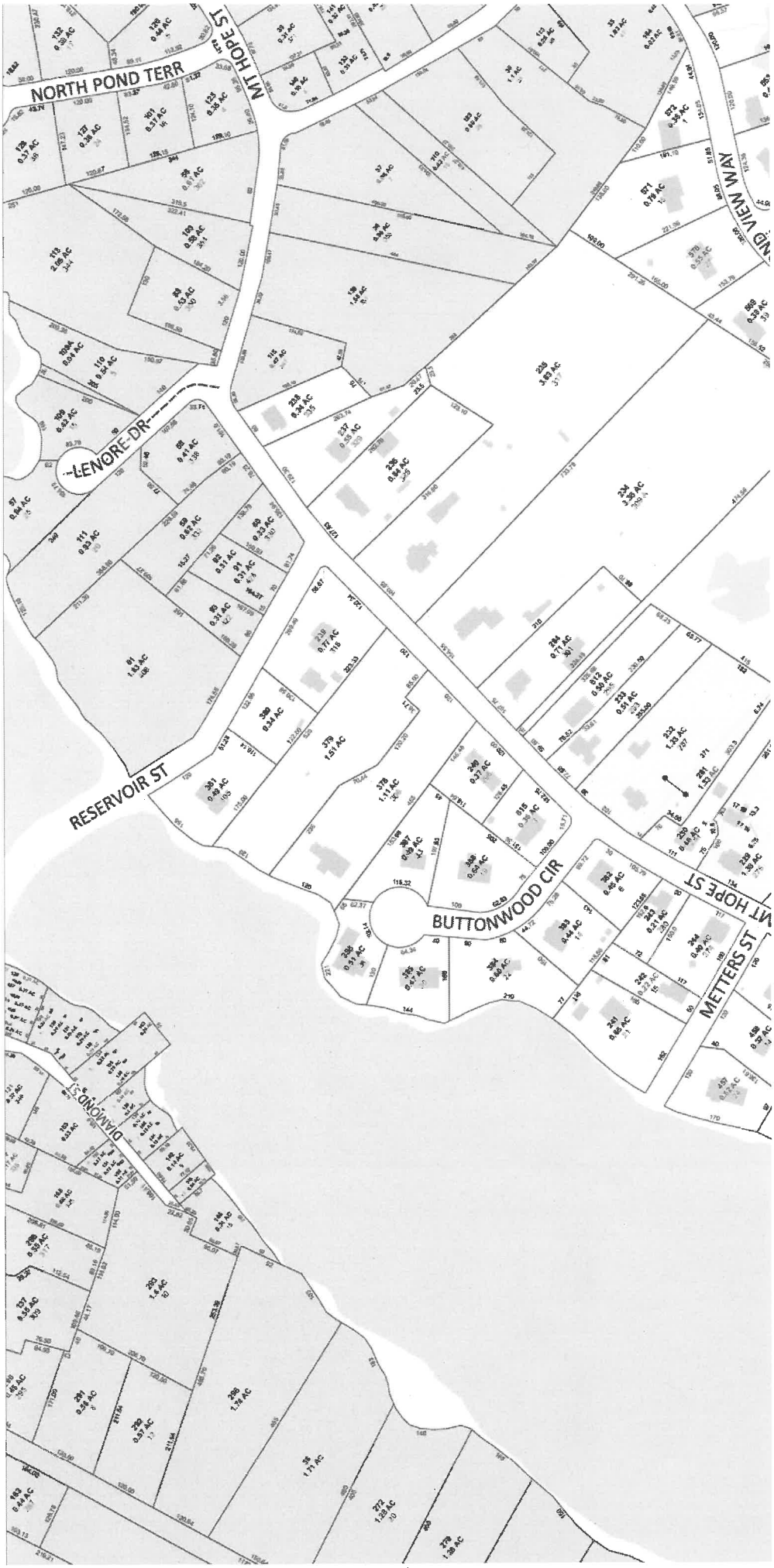
TOWN OF NORTH ATTLEBOROUGH
BOARD OF ASSESSORS
43 South Washington Street
North Attleborough, Ma 02760
Phone: (508)-699-0117 Fax: (508)-643-3372

ABUTTERS LISTING
CONSERVATION
1/7/2026

SUBJECT PARCEL: 24/378/ **SUBJECT LOCATION:** 306 MT HOPE ST

HAUGHTON BRUCE M + DEBRA A
306 MT HOPE ST
N ATTLEBORO, MA 02760

Parcel(s)	Owner & Mailing Address	Property Location
24/222/	KUGLER DEREK P + ELIZABETH A 301 MT HOPE ST N ATTLEBORO, MA 02760	MT HOPE ST
24/234/	GABOURY MARK + PREWANDOWSKI LINDA 309 MT HOPE ST N ATTLEBORO, MA 02760	309 MT HOPE ST
24/235/	GOULD MICHAEL P SR + DIANE H 317 MT HOPE ST N ATTLEBORO, MA 02760	317 MT HOPE ST
24/240/	OSMAN THUY N 296 MT HOPE ST N ATTLEBORO, MA 02760	296 MT HOPE ST
24/284/	KUGLER DEREK P + ELIZABETH A 301 MT HOPE ST N ATTLEBORO, MA 02760	301 MT HOPE ST
24/379/	TURCOTTE SHELLY-ANN +KILLION STEPHEN C 318 MT HOPE ST N ATTLEBORO, MA 02760	312 MT HOPE ST
24/386/	DANCER JAY + CAROL 26 CYNTHIA LN ATTLEBORO, MA 02703	38 BUTTONWOOD CIR
24/387/	SPENDLOVE ERICA R 33 BUTTONWOOD CIR N ATTLEBORO, MA 02760	33 BUTTONWOOD CIR
24/388/	BLAIS TIFFANY 19 BUTTONWOOD CIR N ATTLEBORO, MA 02760	19 BUTTONWOOD CIR
24/612/	WILLIAMS DAVID B + KERRY A 295 MT HOPE ST N ATTLEBORO, MA 02760	295 MT HOPE ST


NORTH POND TERR
MT HOPE ST
LENORE DR
RESERVOIR ST
BUTTONWOOD CIR
METTERS ST
DIAMOND ST

HAUGHTON BRUCE M + DEBRA A
306 MT HOPE ST
N ATTLEBORO, MA 02760

KUGLER DEREK P + ELIZABETH A
301 MT HOPE ST
N ATTLEBORO, MA 02760

GABOURY MARK + PREWANDOWSKI LINDA
309 MT HOPE ST
N ATTLEBORO, MA 02760

GOULD MICHAEL P SR + DIANE H
317 MT HOPE ST
N ATTLEBORO, MA 02760

OSMAN THUY N
296 MT HOPE ST
N ATTLEBORO, MA 02760

KUGLER DEREK P + ELIZABETH A
301 MT HOPE ST
N ATTLEBORO, MA 02760

TURCOTTE SHELLY-ANN +KILLION STEPHEN C
318 MT HOPE ST
N ATTLEBORO, MA 02760

DANCER JAY + CAROL
26 CYNTHIA LN
ATTLEBORO, MA 02703

SPENDLOVE ERICA R
33 BUTTONWOOD CIR
N ATTLEBORO, MA 02760

BLAIS TIFFANY
19 BUTTONWOOD CIR
N ATTLEBORO, MA 02760

WILLIAMS DAVID B + KERRY A
295 MT HOPE ST
N ATTLEBORO, MA 02760

HAUGHTON BRUCE M + DEBRA A
306 MT HOPE ST
N ATTLEBORO, MA 02760

KUGLER DEREK P + ELIZABETH A
301 MT HOPE ST
N ATTLEBORO, MA 02760

GABOURY MARK + PREWANDOWSKI LINDA
309 MT HOPE ST
N ATTLEBORO, MA 02760

GOULD MICHAEL P SR + DIANE H
317 MT HOPE ST
N ATTLEBORO, MA 02760

OSMAN THUY N
296 MT HOPE ST
N ATTLEBORO, MA 02760

KUGLER DEREK P + ELIZABETH A
301 MT HOPE ST
N ATTLEBORO, MA 02760

TURCOTTE SHELLY-ANN +KILLION STEPHEN C
318 MT HOPE ST
N ATTLEBORO, MA 02760

DANCER JAY + CAROL
26 CYNTHIA LN
ATTLEBORO, MA 02703

SPENDLOVE ERICA R
33 BUTTONWOOD CIR
N ATTLEBORO, MA 02760

BLAIS TIFFANY
19 BUTTONWOOD CIR
N ATTLEBORO, MA 02760

WILLIAMS DAVID B + KERRY A
295 MT HOPE ST
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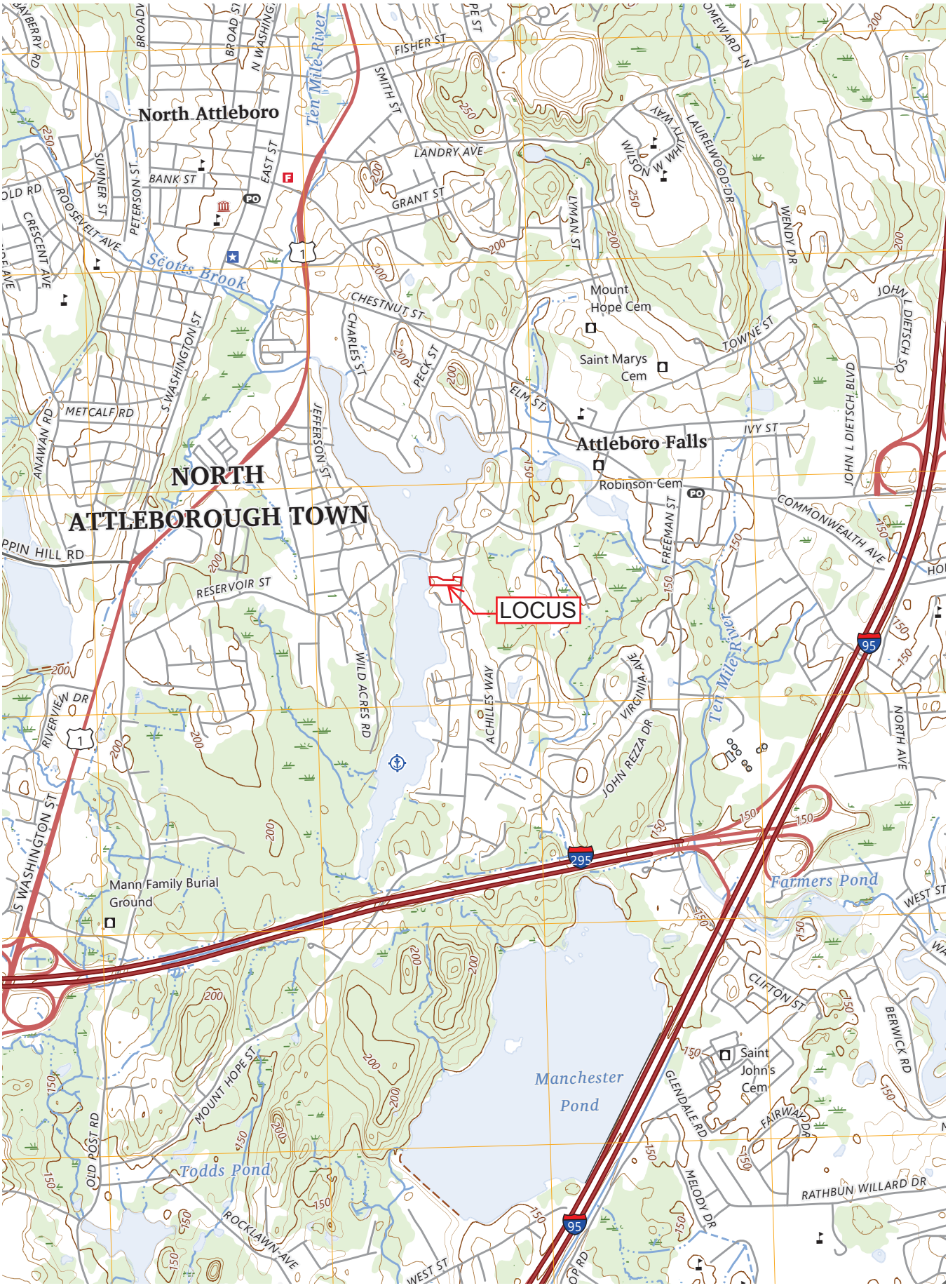
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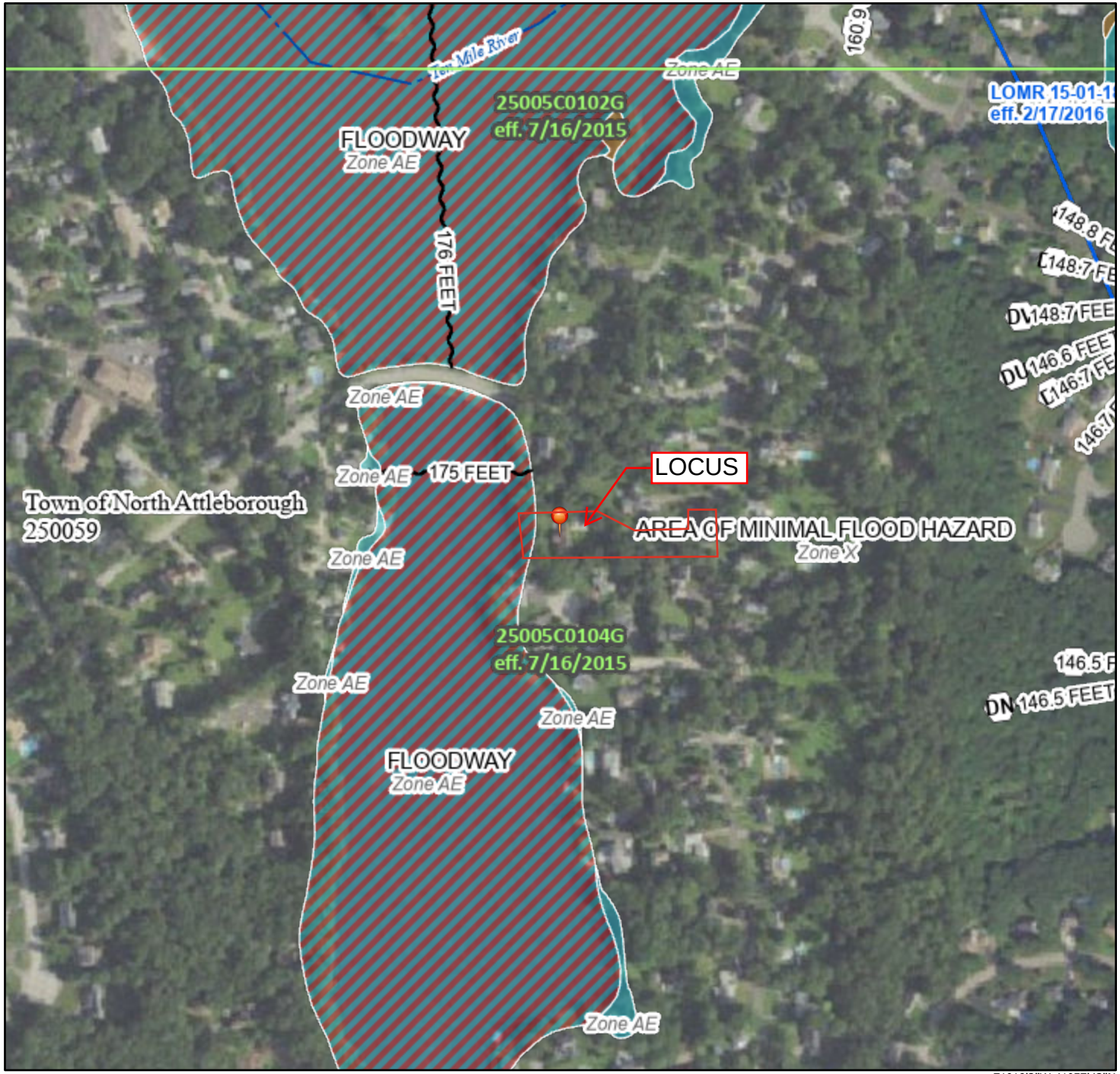
APPENDIX C: Locus Maps


North Attleboro
NORTH
ATTLEBOROUGH TOWN
Attleboro Falls
LOCUS
Ten Mile River
Scotts Brook
Farmers Pond
Manchester
Pond
Todds Pond
Mann Family Burial
Ground
Mount
Hope Cem
Saint Marys
Cem
Robinson Cem
Saint
John's
Cem
FISHER ST
SMITH ST
LANDRY AVE
BANK ST
GRANT ST
CHESTNUT ST
EAST ST
BROAD ST
N WASHINGTON
SUMNER ST
PETERSON ST
ROOSEVELT AVE
CRESCENT AVE
S WASHINGTON ST
METCALF RD
ANAWAN RD
JEFFERSON ST
CHARLES ST
PECK ST
ELM ST
LYMAN ST
WILSON AVE
LAUREL WAY
LAUREL WOOD DR
WENDY DR
JOHN L DIETSCH SQ
JOHN L DIETSCH BLVD
TOWNE ST
IVY ST
COMMONWEALTH AVE
FREEMAN ST
VIRGINIA AVE
JOHN REZZA DR
ACHILLES WAY
WILD ACRES RD
RESERVOIR ST
PPIN HILL RD
RIVERVIEW DR
MOUNT HOPE ST
OLD POST RD
ROCKLAWN AVE
WEST ST
NORTH AVE
CLIFTON ST
BERWICK RD
GLENDALE RD
FAIRWAY DR
MELODY DR
RATHBUN WILLARD DR
95
295
1

National Flood Hazard Layer FIRMette

FEMA

71°19'40"W 41°58'9"N



71°19'2"W 41°57'42"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

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
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 5/6/2025 at 8:17 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.

APPENDIX D: Narrative Description

NARRATIVE DESCRIPTION

Introduction

This Notice of Intent proposes a dock retrofit, stair repair, removal of trees, and planting of new trees at 306 Mount Hope Street in North Attleboro, MA.

Existing Conditions

The existing 1.1 acre site is developed with a single-family dwelling along Falls Pond.

Resource Areas

Falls pond borders the site to the west. Associated with Falls Pond are a variety of Resource Areas listed below that have been identified by a wetland scientist, whose report is included as Appendix G:

- Land Under Waterways: This resource area lies under Falls pond and is proposed to be disturbed by the dock retrofit supports.
- Bank: This resource area lies along Falls pond and is proposed to be disturbed only where the dock meets the land.
- Bordering Land Subject to Flooding (B.L.S.F.): This resource area includes all land below elevation 175.0 (NGVD29) datum. None of the proposed work will increase or decrease flood storage within the B.L.S.F.

Proposed Work

<u>Great Pond</u>

Falls pond is larger than 10 acres and is therefore classified as a "Great Pond" and is subject to 310 CMR 9. Permitting for small structures (such as docks) accessory to residences is administered by the Town of North Attleboro (Pond Permit, see below).

<u>Bordering Land Subject to Flooding (BLSF)</u>

The dock is located within a BLSF area elevation 175.0. In the existing condition, the dock is secured to the bank by hinges while the rest of the dock floats on the water. When the pond level rises, the end of the dock floats up while the secured end is submerged. In the proposed condition, the entire dock will be fixed on metal posts out of the water, with the bottom half of the dock being located within the flood plain. This will not result in an increase or decrease in flood storage volume.

<u>Buffer Area</u>

All land within 100' of wetland resource areas is subject to regulation.

North Attleboro Wetlands Protection Bylaw

The Town of North Attleboro strongly encourages a 25-foot No Disturbance Zone (NDZ). The dock retrofit, stair repair, tree cutting, and planting take place within the NDZ. The areas proposed to be altered are existing degraded areas. No unaltered areas will be altered by the proposed activities.

The Town of North Attleboro administers a permitting program for docks on Falls Pond. The proposed dock retrofit complies with the Rules and Regulations Governing Structures on Falls and Whiting's Pond:

- Section 5 – Location and Design Guidelines
    - 5.1. Only one structure is located on the shoreline for this lot;
    - 5.2. The existing dock is neither perpendicular nor parallel to the shoreline. The proposed retrofit will bring the dock into compliance with this regulation to be perpendicular to the shoreline.
    - 5.3. The dock length is a modest 16' long, which allows for kayak boarding in sufficiently deep waters.
    - 5.4. The location where the dock connects to the bank is a frequently used pathway which is not used as habitat area.
    - 5.5. The dock is not composed of prohibited materials or treated with prohibited chemicals. The proposed pipe supports shall be galvanized aluminum.
    - 5.6. The existing dock is nonconforming in that it is both floating and affixed to the ground by hinges, making it impossible to remove during the winter months as required. The proposed retrofit will mount the dock on poles above the water level and will therefore not be required to be removed each winter.
    - 5.7. Wood preservatives will be applied to the dock no more than once per year.

Project Schedule

The applicant intends to begin and complete all work during the spring and summer of 2026.

APPENDIX E: "306 Mount Hope Street Site Plan of Land in North Attleboro, MA" Dated January 15, 2026, Prepared by Drew Haughton (bound separately)

OWNER/APPLICANT
BRUCE & DEBRA HAUGHTON
306 MT. HOPE ST.
NORTH ATTLEBORO, MA

ASSESSORS PARCEL
24-378

PLAN & DEED REFERENCE
DEED BK 10136 PG 245
PLAN BK 402 PG 26

COMMONWEALTH OF MASSACHUSETTS
DREW J. HAUGHTON
CIVIL
NO. 57044
REGISTERED PROFESSIONAL ENGINEER
2026-01-15

PLAN SCALE: 1"=20'
0' 20' 40' 80'

PLAN DATE: JANUARY 15, 2026

REVISION	DATE	BY

306 MT. HOPE ST.
CONSERVATION
PLAN OF LAND
IN
NORTH ATTLEBORO, MA

PLANS PREPARED
BY DREW
HAUGHTON, P.E.

N/F SHELLY-ANN TURCOTTE
& STEPHEN KILLION
312 MT. HOPE ST.
ASSESSORS 24-379

DWELLING
#312

EXISTING TREELINE

100' POND BUFFER

25' "NO DISTURB" BUFFER

N 84°15'00" E 236.00'

S 62°25'06" E 70.44'

N 84°15'00" E 120.20'

N 05°45'00" W 38.71'

N 84°15'00" E 85.00'

POND BANK FLAGS #1-8

STAIRS (TO BE REPAIRED)

DOCK

DOCK (TO BE RETROFIT)

BORDERING LAND SUBJECT TO FLOODING ELEV. 175.0

TREE #1
SPLIT 17" & 14"
RED MAPLE TREE
TO BE REMOVED

TREE #2
14.5" CHOKE
CHERRY TREE
TO BE REMOVED

TREE #3
DAMAGED 9"
SUGAR MAPLE
TREE TO BE
REMOVED

WOOD BEAM EDGING

SAND

LAWN

GARDEN

STONE WALL

DECK

6 PROPOSED MIX OF RHODODENDRON, AZALEA, MOUNTAIN LAUREL

6 PROPOSED GREEN GIANT ARBORVITAE

PORCH

EXISTING SINGLE-FAMILY DWELLING

CONCRETE DRIVEWAY

LAWN

LOT 1A
48,518± S.F.

GRAVEL DRIVEWAY

D-BOX (APPROX.)

SEPTIC TANK (APPROX)

SEPTIC GALLEYS (APPROX)

VENT (APPROX.)

EXISTING TREELINE

S 84°15'00" W 455.00'

STONE WALL

FALLS POND

N/F JAY & CAROL DANCER
38 BUTTONWOOD CIRCLE
ASSESSORS 24-386

DWELLING
#38

N/F ERICA SPENDLOVE
33 BUTTONWOOD CIRCLE
ASSESSORS 24-387

DWELLING
#33

N/F THUY OSMAN
296 MT. HOPE ST.
ASSESSORS 24-240

DWELLING
#296

S 02°40'00" W 120.00'

MOUNT HOPE STREET

N/F MARK
GABOURY & LINDA
PREWANDOWSKI
304 MT. HOPE ST.
ASSESSORS 24-234

N/F DEREK &
ELIZABETH
KUGLER
301 MT. HOPE ST.
ASSESSORS 24-284

LEGEND & ABBREVIATIONS

- CB: SINGLE-GRATE CATCH BASIN
- CB: DOUBLE-GRATE CATCH BASIN
- PTU: PROPRIETARY STORMWATER UNIT
- DMH: DRAIN MANHOLE
- TR. DR.: TRENCH DRAIN
- INFIL. TR.: INFILTRATION TRENCH
- ——X" D—— DRAIN PIPELINE
- RCP: REINFORCED CONCRETE PIPE
- HDPE: HIGH DENSITY POLYETHYLENE PIPE
- PVC: POLYVINYL CHLORIDE PIPE
- SMH: SEWER MANHOLE
- ——X" S—— SEWER PIPELINE
- C.O.: SEWER SERVICE CLEANOUT
- ——X" W—— WATER MAIN
- HYD: HYDRANT
- G.V.: WATER GATE VALVE
- C.S.: WATER SERVICE CURB STOP
- M.B.: WATER SERVICE METER BOX
- —— G —— GAS PIPELINE
- —— E —— ELECTRIC CONDUIT
- L.P.: LIGHT POLE
- U.P.: UTILITY POLE
- G.Y.: GUY WIRE
- S.P.: TRAFFIC SIGNAL POLE
- ——252—— EXISTING CONTOUR
- ——252—— PROPOSED CONTOUR

E.O.P.	EDGE OF PAVEMENT
C.C.B.	INTEGRAL SLOPED BIT. BERM
V.B.B.	VERTICAL BITUMINOUS BERM
S.G.C.	SLOPED GRANITE CURB
V.G.C.	VERTICAL GRANITE CURB
V.C.C.	VERTICAL CONCRETE CURB
E.C.S.	EDGE CONCRETE SLAB
G.V.	GATE VALVE
C.L.F.	CHAIN LINK FENCE
W.S.F.	WOOD STOCKADE FENCE
P.P.F.	PVC PICKET FENCE
G.R.	GUARD RAIL
C.C.	HANDICAP CURB CUT

NOTES:
1. OFF-SITE CONDITIONS ARE BASED ON PUBLICLY AVAILABLE DATA INCLUDING AERIAL IMAGERY, RECORD PLANS, AND LIDAR.
2. RESOURCE AREAS HAVE BEEN DELINEATED BY APPLIED ECOLOGICAL SERVICES ON JUNE 9, 2025.
3. SURVEY BY COLONIAL ENGINEERING NOVEMBER 19, 2025.

APPENDIX F: Botanist Report

AES

Site Evaluation & Wetland Delineation

June 15, 2025

306 Mount Hope Street
North Attleboro, Massachusetts

Prepared for

Bruce Haughton
306 Mount Hope Street
North Attleboro MA 02760

Prepared by

Applied Ecological Sciences

P.O. Box 184
Norfolk, MA 02056
(508) 528-2866
(508) 740-0438 cell
email: rwaldron@earthlink.net

Table of Contents

Introduction 1.

General Site Description 1.

Soils 1.

Wetland Delineation Methodology 1.

Wetland Resource Description 2.

Inland Bank/MAHW 2.

FEMA Floodplain Designation 2.

NHESP Estimated & Priority Habitat 2.

Area of Critical Environmental Concern (ACEC) 2.

Water Supply Protection Areas 2.

Outstanding Resource Water (ORW) 2.

Buffer Zone 2.

References 3.

Appendix A: U.S.G.S. Topo Map, FEMA Map 4.

Site Evaluation and Wetland Delineation
306 Mount Hope Street
North Attleboro, Massachusetts

Introduction

AES conducted a site evaluation at the above referenced property on June 9, 2025. Wetland resource areas protectable under the *Massachusetts Wetlands Protection Act* (M.G.L. c. 131, s. 40) and the implementing *Regulations* (310 CMR 10.00) were identified and characterized. The top of Inland Bank/Mean Annual High-Water Boundary (MAHW) to *Falls Pond* was delineated in the field with red flagging tape. Resulting data describing the floristic, edaphic, and topographic characteristics of the property has been utilized in the preparation of this *Site Evaluation Report.* The following narrative provides a general site description, wetland delineation methodology, and wetland resource descriptions.

General Site Description

The subject property encompasses a residential lot located westerly of Mount Hope Street in North Attleboro, Massachusetts. Topography of site is generally flat. A single-family home with manicured lawn and scattered mature trees occupies the property. Residential development abuts the property to the north and south. *Falls Pond* lies to the west.

Soils

Soils underlying the site consist of well-drained, verry stony Paxton (PaB, 306B), fine sandy loam, 0% to 8% slopes (USDA SCS 1978, Map #6, www.nesoil.com).

Wetland Resource Description

Wetland resources associated with the site include Inland Bank. The banks of the pond are generally distinct and well defined and vegetated with upland and wetland vegetation.

The top of Inland Bank/MAHW is delineated in the field with AES flagging stations #1 through #8.

FEMA Floodplain Designation

Based on the *Federal Emergency Management Agency Flood Insurance Rate Map* for the Town of North Attleboro, Massachusetts (Map No. 25005C102G), the site is located within Zone X (non-shaded), *Areas determined to be outside the 0.2% annual chance floodplain* and *Zone AE; Special flood areas subject to inundation by the 1% annual*

chance flood. Base flood elevations or depth determined. The base flood elevation established for the site is 175 feet.

NHESP Estimated & Priority Habitat

According to the Massachusetts *Natural Heritage and Endangered Species Program Habitat Map*, the site is not located within an Estimated Habitat of Rare Wildlife or a Priority Habitat of Rare Species.

Area of Critical Environmental Concern (ACEC)

Based upon to the Massachusetts Geographic Systems *Area of Environmental Concern Map*, the site is not located within an ACEC.

Water Supply Protection Areas

According to the Massachusetts Geographic Information Systems *Water Supply Protection Areas Map*, the site is not located within a Zone II groundwater recharge area or an Interim Wellhead Protection Area (IWPA).

Outstanding Resource Water (ORW)

According to the Massachusetts Geographic Information Systems *Outstanding Resource Waters Map*, the site is not located within a contributing watershed to an ORW.

Buffer Zone

Buffer Zone, as defined at 310 CMR 10.04, means:

> *The area of land extending 100 feet horizontally outward from the boundary of any area specified in 310 CMR 10.02(1)(a*).

The Town of North Attleboro Conservation Commission maintains a 25-foot No Disturbance Buffer Zone Policy that must be included on all plans for work proposed within the Commission's jurisdiction.

The western portion of the site is contained within the regulatory Buffer Zone.

References

Federal Emergency Management Agency (FEMA) Map Service Center, www.fema.gov.

Massachusetts Geographic Information Systems (MAGIS), www.massgis.state.ma.us.

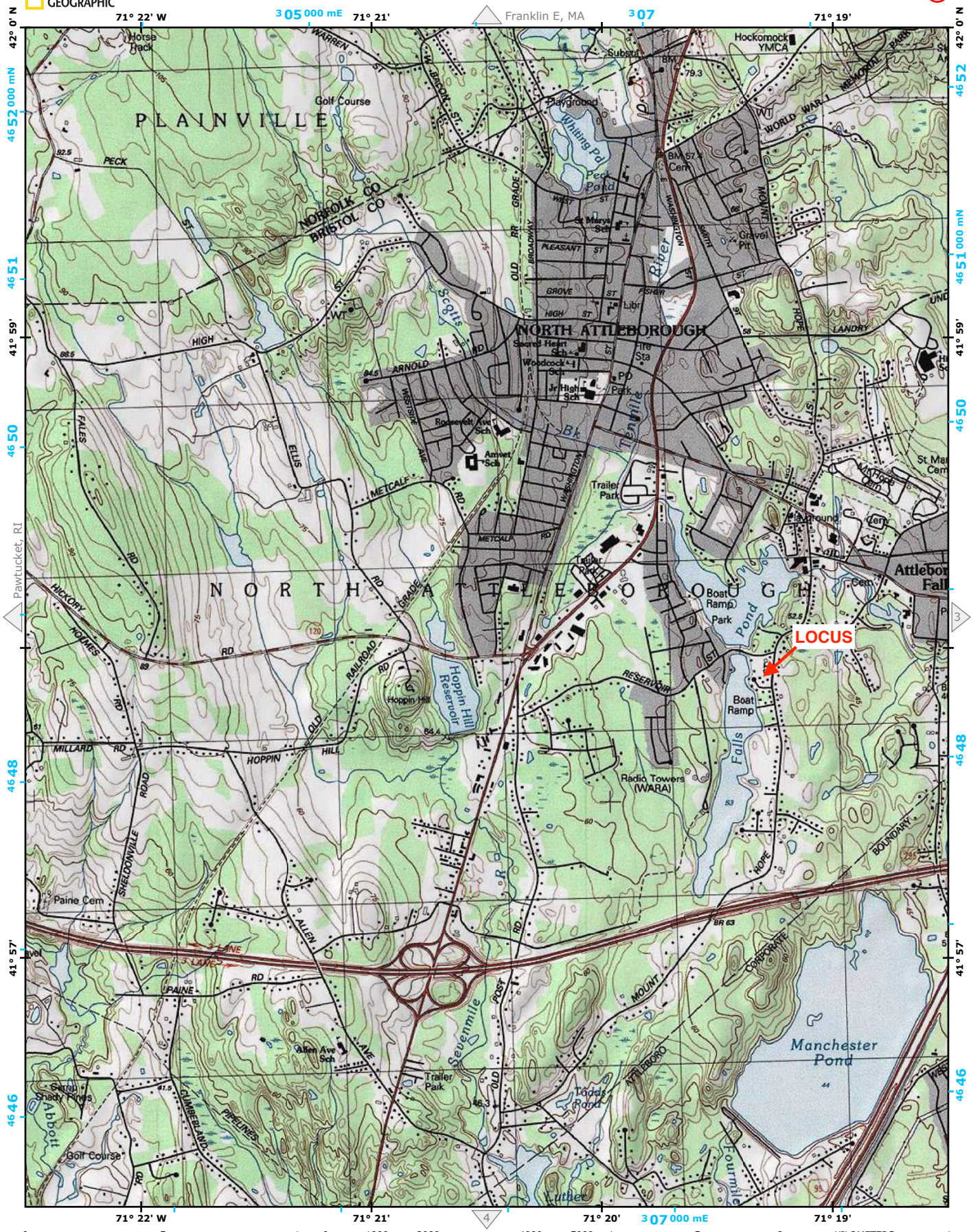
Natural Resources Conservation Service, www.nesoil.com, websoilsurvey.nrcs.usda.gov.

United States Department of Agriculture, Soil Conservation Service, 1978. *Soil Survey of Bristol County, Massachusetts, Northern Part*.

Appendix A

U.S.G.S Topo Map

FEMA Flood Map

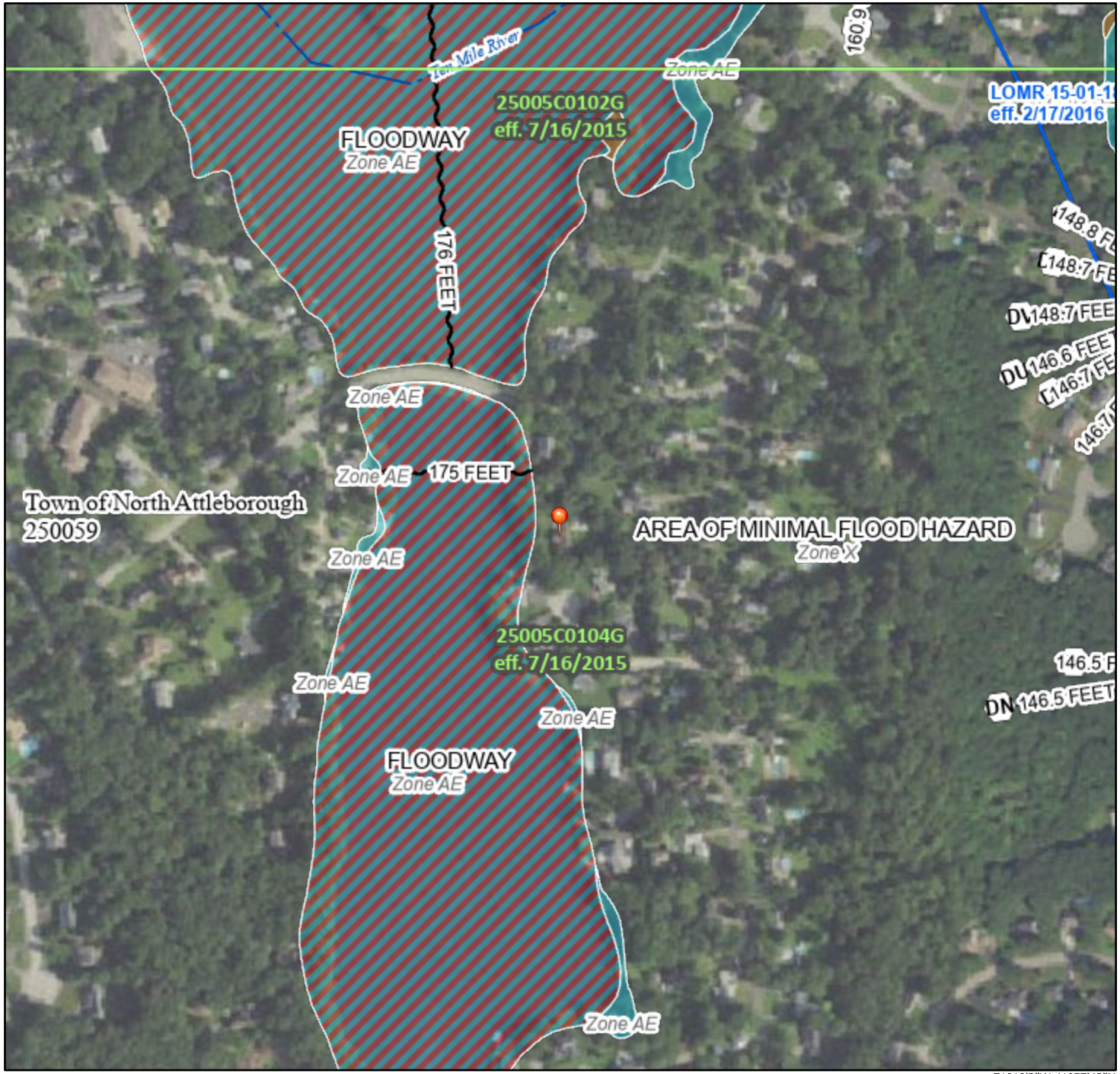


© 2016 National Geographic Partners. Please refer to index map on page 1 for more details. User assumes all risk associated with the use of this map.

National Flood Hazard Layer FIRMette

FEMA

71°19'40"W 41°58'9"N



71°19'2"W 41°57'42"N

Feet

0 250 500 1,000 1,500 2,000

1:6,000

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*
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- 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*
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GENERAL STRUCTURES
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- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
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- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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

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APPENDIX G: Site Photos & Documents

Tree #1 to be removed: Split 17″ & 14″ Red Maple



Tree #2 to be removed: 14″ Choke Cherry



Tree #3 to be removed: Damaged 9" Sugar Maple

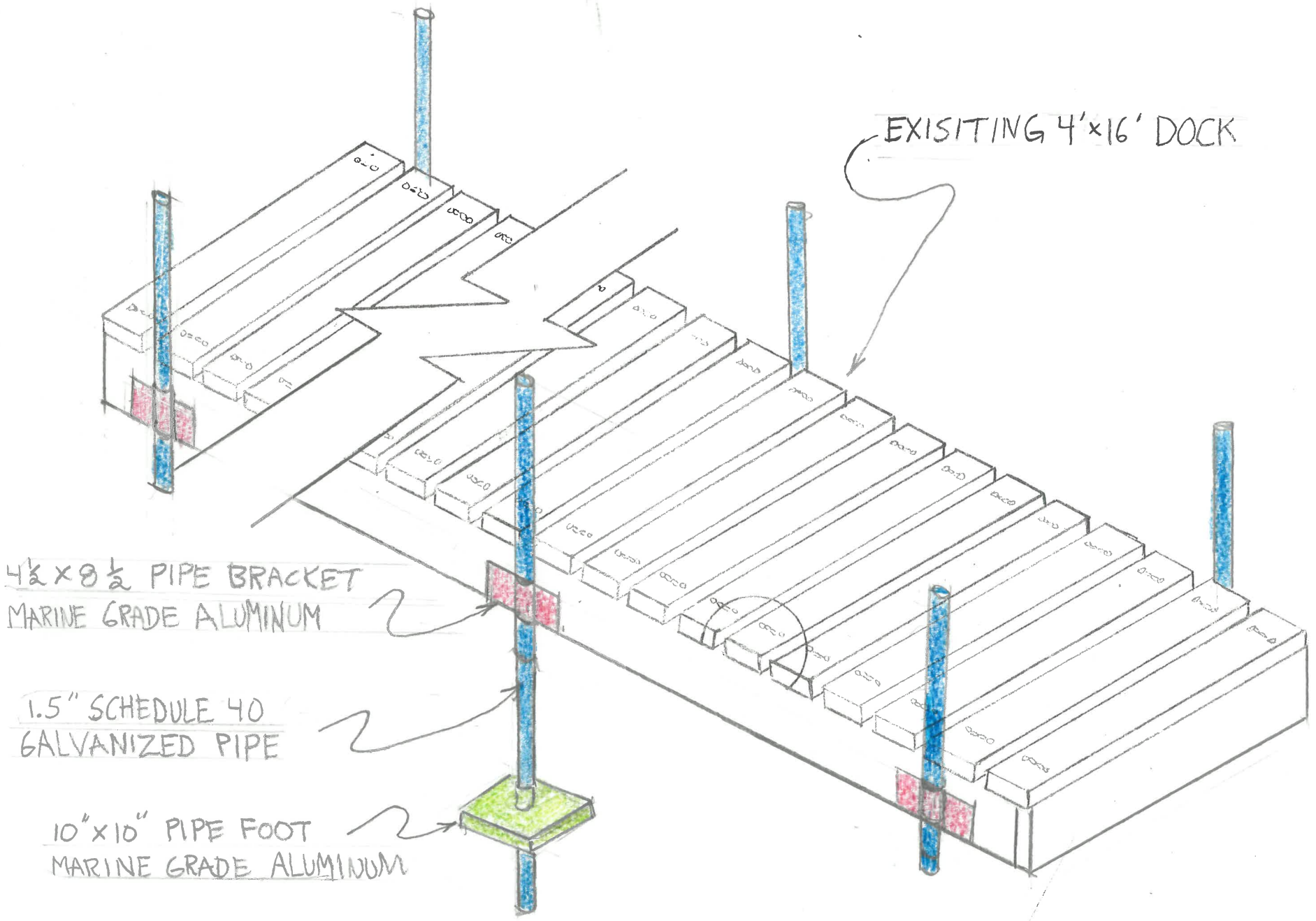


Existing Dock



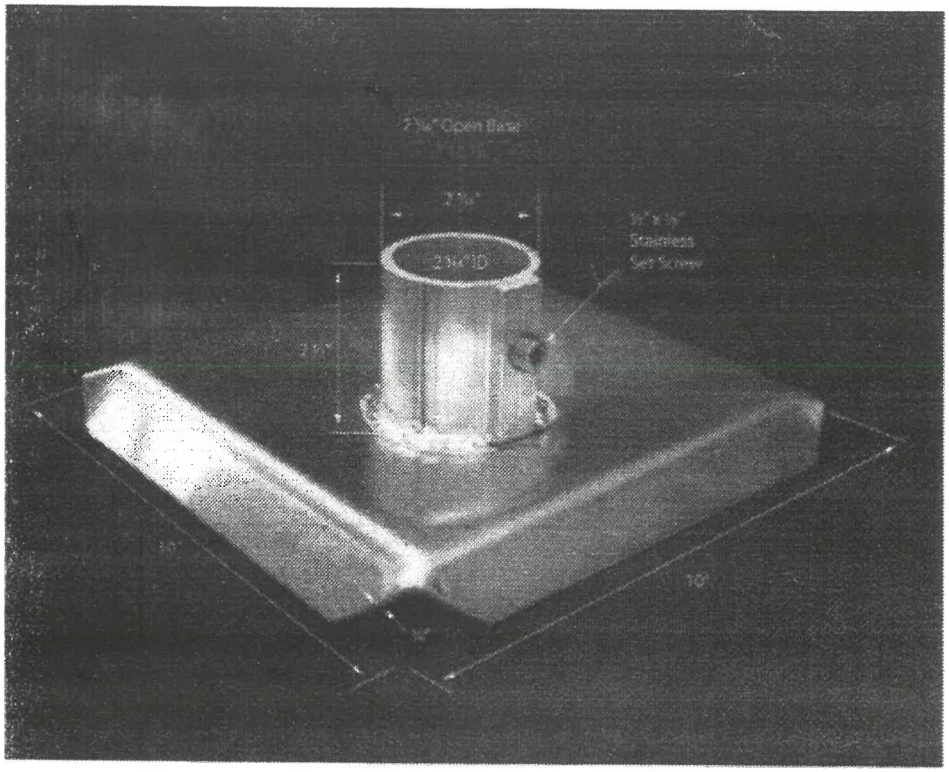
Existing Stairs





DOCK RETROFIT
HAUGHTON
306 MT. HOPE ST.
N. ATTLEBORO
SHEET OF

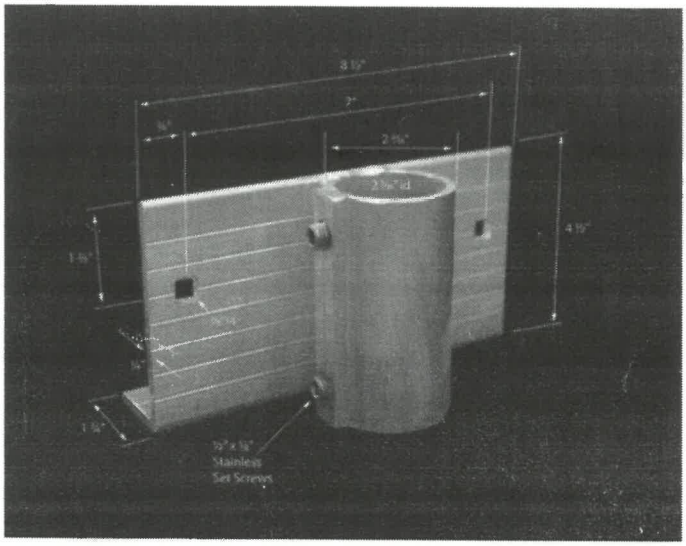
10" X 10" MARINE GRADE ALUMINUM



Pipe Foot (2 Pack) #4180

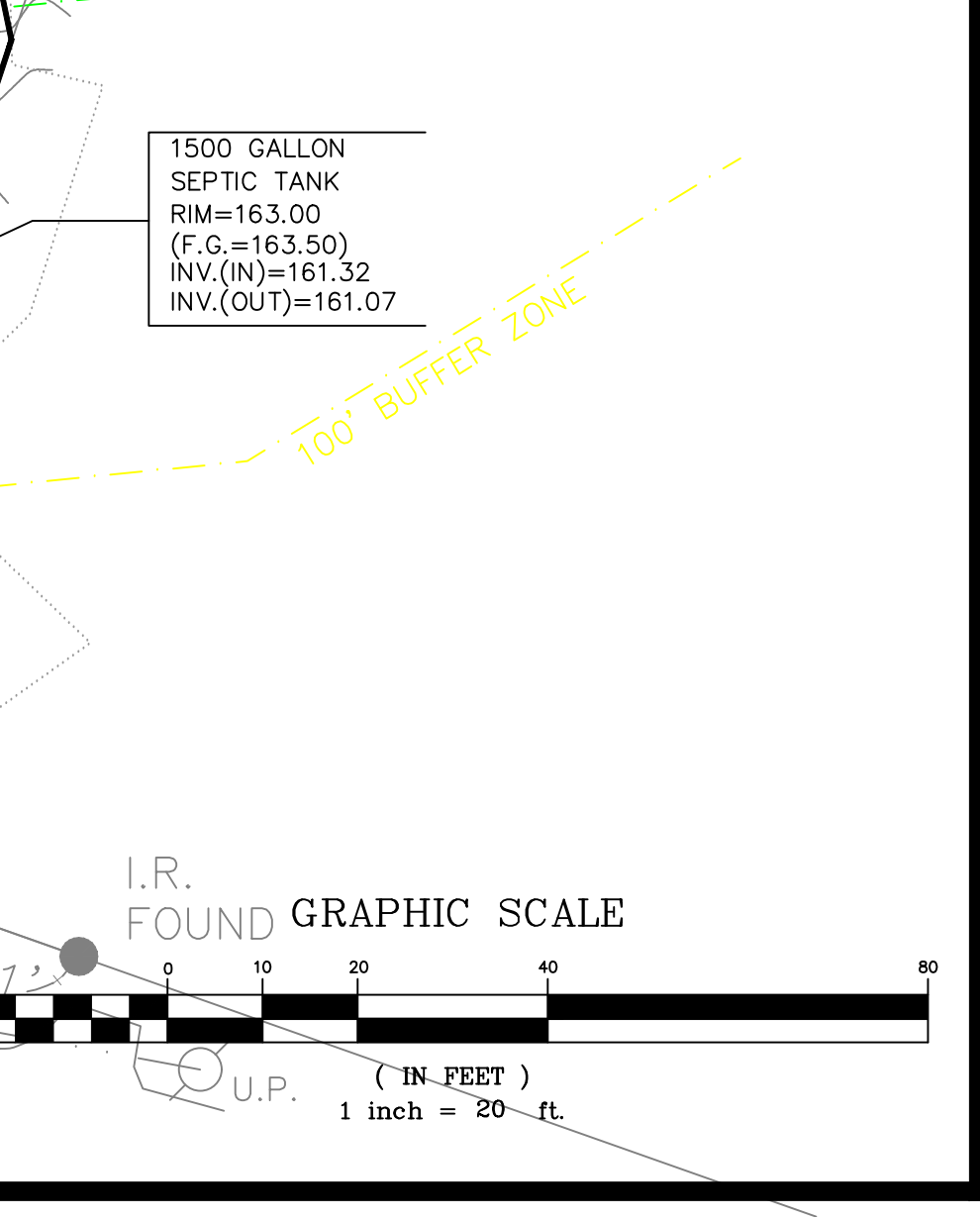
PIPE FOOT
HAUGHTON
306 MT. HOPE ST
N. ATTLEBORO
SHEET 1 OF

$4\frac{1}{2}$" x $8\frac{1}{2}$" L MARINE GRADE ALUMINUM



Pipe Bracket (2 Pack)
#4071

PIPE BRACKET
HAUGHTON
306 MT. HOPE ST
N. ATTLEBORO
SHEET OF



GRAPHIC SCALE

0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

XXX OLD POST ROAD

NORTH ATTLEBORO, MA 02760

PREPARED FOR: MELANIE BONIN & SCOTT BELCHER
541 OLD POST ROAD
NORTH ATTLEBORO, MA 02760

Site Engineering Consultants, Inc.
55 Grape Shot Road
Sharon, Massachusetts 02067
TEL: (781) 784-0326
FAX: (781) 784-0492
CONSULTING CIVIL ENGINEERS

SITE PLAN

SCALE: AS NOTED DATE:11/19/2021

DRAWN BY: A.S.

CHECKED BY:

PROJECT NO: 0295

SHEET 1 OF 3