

# 30 MS MILFORD, LLC

## MULTI-FAMILY HOUSING DEVELOPMENT

30 MILL STREET

TAX MAP 25 LOT 95

MILFORD, NEW HAMPSHIRE 03055

NOVEMBER 20, 2023

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### PERMITS/APPROVALS:

THIS PROJECT IS SUBJECT TO AND/OR REQUIRES THE FOLLOWING APPROVALS:

1. TOWN OF MILFORD PLANNING BOARD MAJOR SITE PLAN APPROVAL  
[STATUS: PENDING]
2. TOWN OF MILFORD PLANNING BOARD STORMWATER PERMIT  
[STATUS: PENDING]
3. TOWN OF MILFORD ZONING BOARD OF ADJUSTMENT SPECIAL EXCEPTION OF SECTION 5.08.8.A OF THE TOWN'S ZONING ORDINANCE TO ALLOW FOR A BUILDING HEIGHT OF 52- FEET WHERE 40- FEET IS REQUIRED.  
[STATUS: PENDING]

### MUNICIPAL CONTACTS:

#### COMMUNITY DEVELOPMENT DIRECTOR

TERRENCE (TERREY) DOLAN  
1 UNION SQUARE  
MILFORD, NH 03055  
(603)249-0620

#### FIRE DEPARTMENT

KENNETH FLAHERTY, CHIEF  
39 SCHOOL STREET  
MILFORD, NH 03055  
(603)249-0680 (NON EMERGENCY)

#### POLICE DEPARTMENT

MIKE VIOLA, CHIEF  
19 GARDEN STREET  
MILFORD, NH 03055  
(603)249-0630 (NON-EMERGENCY)

#### BUILDING OFFICIAL/CODE ENFORCEMENT OFFICER

JAMIE RAMSAY  
1 UNION SQUARE  
MILFORD, NH 03055  
(603)249-0620

#### DEPARTMENT OF PUBLIC WORKS

LEO LESSARD, DIRECTOR  
289 SOUTH STREET  
MILFORD, NH 03055  
(603)249-0685

APPROVED BY MILFORD PLANNING BOARD

ON: \_\_\_\_\_ CERTIFIED BY  
CHAIRMAN: \_\_\_\_\_ AND  
SECRETARY: \_\_\_\_\_

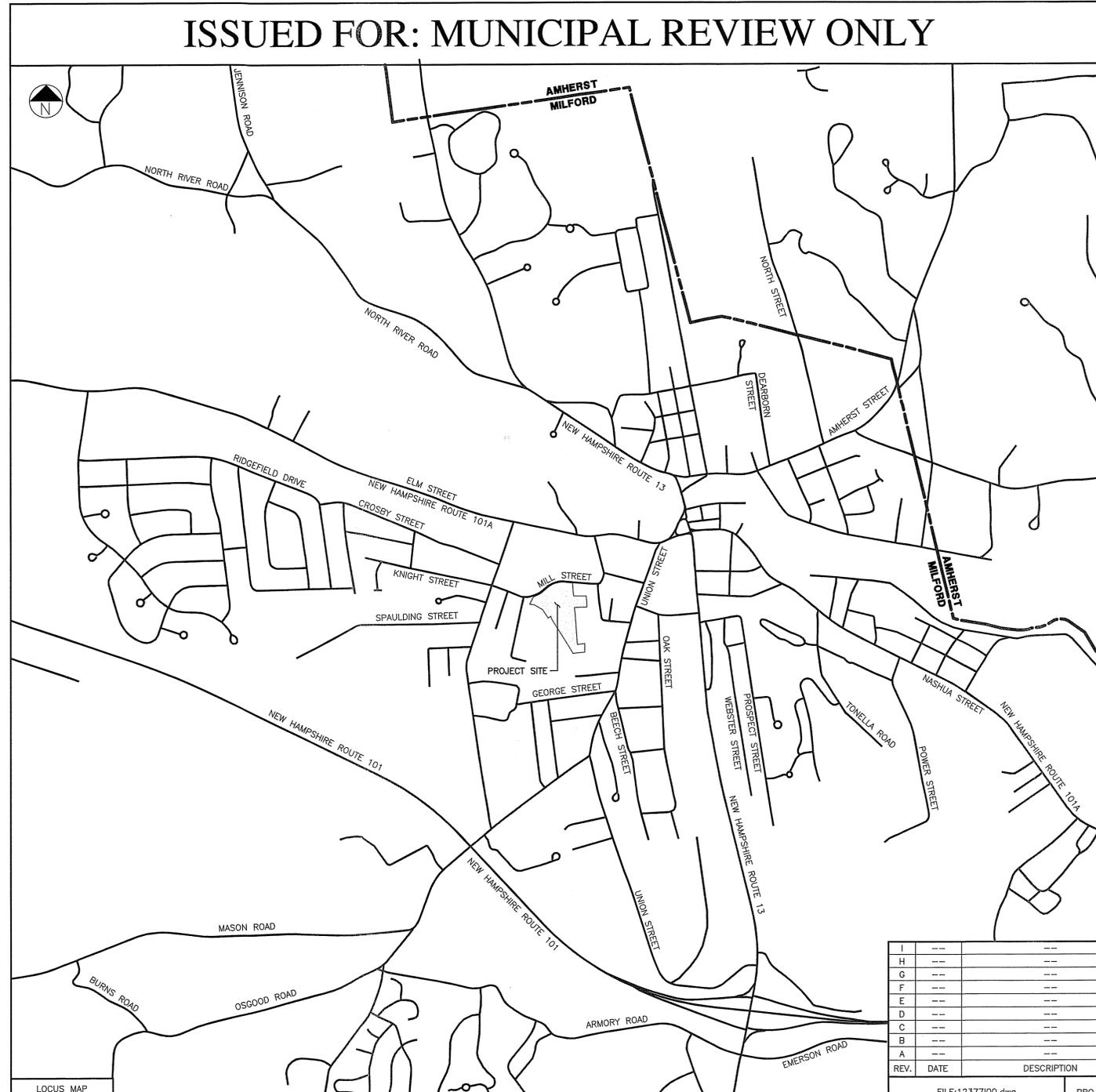
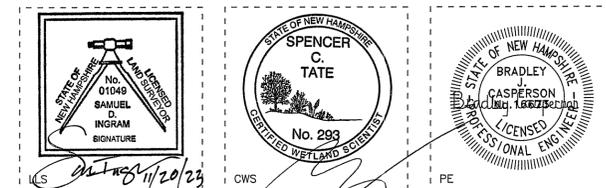
### OWNER/APPLICANT:

30 MS MILFORD, LLC  
TOM QUINN - MANAGER  
62 ELM STREET  
MILFORD, NEW HAMPSHIRE 03055

### OWNER'S SIGNATURE:

OWNER \_\_\_\_\_ DATE \_\_\_\_\_

### MERIDIAN DESIGN PROFESSIONALS:



ISSUED FOR: MUNICIPAL REVIEW ONLY

### PURPOSE OF PLAN:

THE PURPOSE OF PLAN IS TO DEMOLISH THE EXISTING BUILDING ONSITE AND CONSTRUCT A 34-UNIT MULTI-FAMILY HOUSING APARTMENT BUILDING WITH ASSOCIATED SITE IMPROVEMENTS AND INFRASTRUCTURE.

### ZONING NOTES:

1. THE SUBJECT PARCEL IS INDICATED AS MAP 25 LOT 95 ON THE MILFORD TAX ASSESSORS MAPS.
2. THE SUBJECT PARCEL IS LOCATED IN THE COMMERCIAL ZONING DISTRICT (C). THE DIMENSIONAL REQUIREMENTS FOR THE COMMERCIAL ZONING DISTRICT (C) ARE AS FOLLOWS:

ZONING SUMMARY		
DIMENSIONAL REQUIREMENTS FOR THE COMMERCIAL "C" DISTRICT		
REQUIREMENT	WITH SEWER AND WATER	WITHOUT SEWER AND WATER
LOT SIZE	20,000 SQUARE FEET	60,000 SQUARE FEET
FRONTAGE	150 FEET	225 FEET
FRONT YARD SETBACK	30 FEET	30 FEET
SIDE AND REAR YARD SETBACK	15 FEET	15 FEET
MINIMUM OPEN SPACE %	30%	30%
MAXIMUM BUILDING HEIGHT	40 FEET	40 FEET

### 3. OPEN SPACE CALCULATION:

- A. OPEN SPACE AREA PROVIDED= 369,958 SQUARE- FEET
- B. TOTAL LOT AREA = 430,254 SQUARE- FEET
- C. OPEN SPACE PERCENTAGE = 369,958 SQUARE- FEET / 430,254 SQUARE- FEET = 86%
- D. OPEN SPACE REQUIREMENT: 30% OF TOTAL LOT AREA

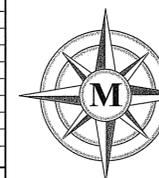
### PARKING CALCULATION:

- A. PARKING SPACE REQUIREMENT FOR 'MULTI-FAMILY': 2 PARKING SPACES PER DWELLING UNIT
- B. PROPOSED UNITS ON LOT 25-95: 34 UNITS
- C. PARKING SPACES REQUIRED: (34 UNITS) X (2 PARKING SPACES) = 68 PARKING SPACES
- D. PARKING SPACES PROVIDED: 68 PARKING SPACES (3 HANDICAP)

REV.	DATE	DESCRIPTION	DR	CK
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PROJECT NO. 12377.00



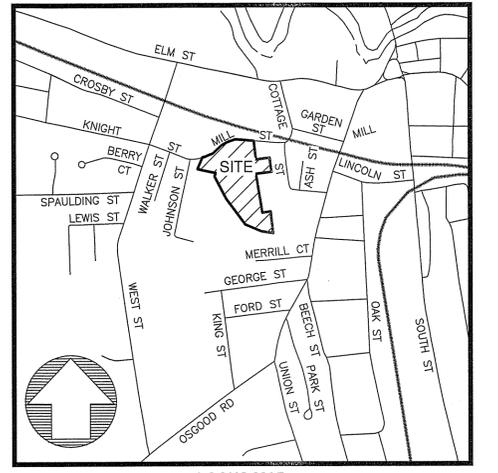
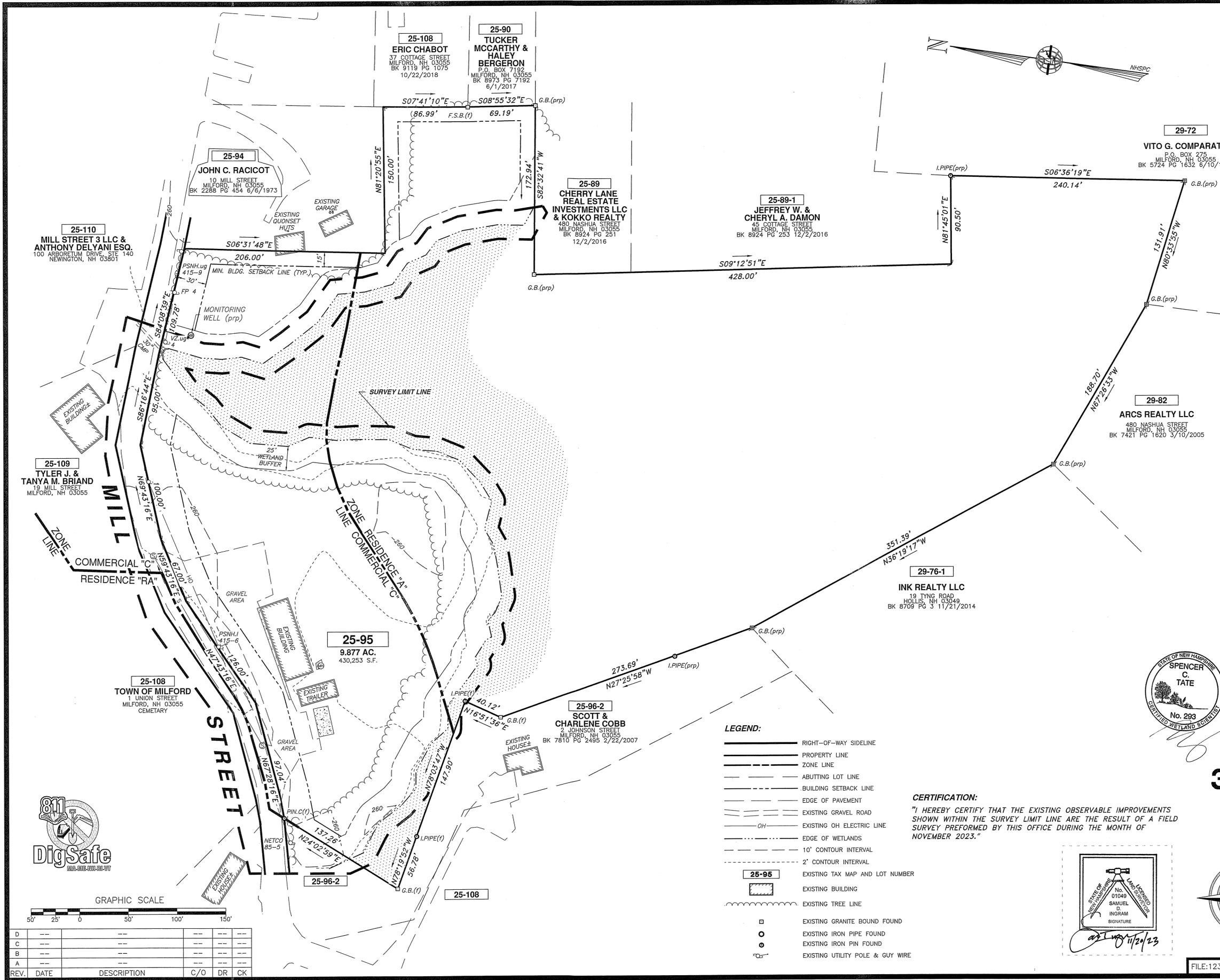
## MERIDIAN

### LAND SERVICES, INC.

ENGINEERING | SURVEYING | PERMITTING  
SOIL & WETLAND MAPPING | SEPTIC DESIGN

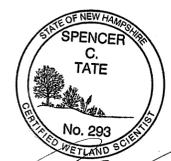
31 OLD NASHUA ROAD, AMHERST, NH 03031 TEL. 603-673-1441  
MERIDIANLANDSERVICES.COM FAX 603-673-1584





**REFERENCE PLAN:**  
 "BOUNDARY PLAN - TAX MAP PARCEL 25-95 - 30 MILL STREET - MILFORD, NEW HAMPSHIRE - PREPARED FOR: - BARRY G. SPRAGUE", SCALE: 1"=60', DATED: APRIL 20, 2017, PREPARED BY: FIELDSTONE LAND CONSULTANTS, PLLC, RECORDED H.C.R.D. PLAN #39262.

- NOTES:**
1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING OBSERVABLE CONDITIONS ON A PORTION OF TAX MAP 25 LOT 95.
  2. THE OWNER OF TAX MAP 25 LOT 95 IS 30 MS MILFORD, LLC. SEE HCRD BK. 9732 PG. 2545.
  3. THE LOT LIES PARTIALLY WITHIN THE COMMERCIAL "C" ZONING DISTRICT AND THE RESIDENCE "A" ZONING DISTRICT AS SHOWN.
  4. EXISTING OBSERVABLE IMPROVEMENTS SHOWN WITHIN THE SURVEY LIMIT LINE ARE BASED UPON A FIELD SURVEY PERFORMED BY THIS OFFICE DURING THE MONTH OF NOVEMBER, 2023.
  5. THE TOTAL AREA OF THE SITE IS 9.877 ACRES OR 430,253 SQ. FT. ACCORDING TO THE REFERENCE PLAN.
  6. THE BOUNDARY INFORMATION SHOWN HEREON IS BASED ENTIRELY ON THE REFERENCE PLAN NOTED HEREON SUPPLEMENTED WITH INFORMATION PER A FIELD SURVEY BY THIS OFFICE.
  7. NO UNDERGROUND UTILITY INVESTIGATION WAS PERFORMED AT THIS TIME.
  8. HORIZONTAL ORIENTATION IS BASED UPON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM AND VERTICAL DATUM IS NAVD 88.
  9. PROPERTY IS NOT SUBJECT TO THE 100 YEAR FLOOD HAZZARD AREA PER F.I.R.M. COMMUNITY PANEL MAP NUMBER 33011C0458D EFFECTIVE DATE SEPTEMBER 25, 2009.
  10. THE SITE LIES WITHIN THE LEVEL 1 PROTECTION AREA OF THE GROUNDWATER PROTECTION OVERLAY DISTRICT AND IS SUBJECT TO GROUNDWATER PROTECTION OVERLAY DISTRICT REGULATIONS.
  11. WETLANDS SHOWN WERE DELINEATED IN ACCORDANCE WITH THE ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 AND THE NORTHEAST REGIONAL SUPPLEMENT, BY SPENCER C. TATE C.W.S. OF THIS OFFICE IN OCTOBER 2023. WETLAND INVESTIGATION WAS LIMITED TO THE AREA WITHIN THE SURVEY LIMIT LINE AT THIS TIME.



**EXISTING CONDITIONS PLAN  
 PREPARED FOR:  
 30 MS MILFORD LLC  
 TAX MAP 25 LOT 95  
 30 MILL STREET  
 MILFORD, NEW HAMPSHIRE**

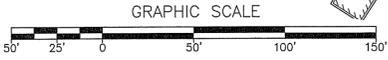
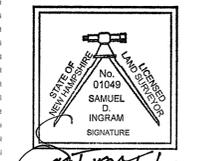
SCALE: 1" = 50' NOVEMBER 20, 2023



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- LEGEND:**
- RIGHT-OF-WAY SIDELINE
  - PROPERTY LINE
  - ZONE LINE
  - ABUTTING LOT LINE
  - BUILDING SETBACK LINE
  - EDGE OF PAVEMENT
  - EXISTING GRAVEL ROAD
  - OH — EXISTING OH ELECTRIC LINE
  - EDGE OF WETLANDS
  - 10' CONTOUR INTERVAL
  - 2' CONTOUR INTERVAL
  - 25-95 — EXISTING TAX MAP AND LOT NUMBER
  - EXISTING BUILDING
  - EXISTING TREE LINE
  - — EXISTING GRANITE BOUND FOUND
  - — EXISTING IRON PIPE FOUND
  - — EXISTING IRON PIN FOUND
  - EXISTING UTILITY POLE & GUY WIRE

**CERTIFICATION:**  
 "I HEREBY CERTIFY THAT THE EXISTING OBSERVABLE IMPROVEMENTS SHOWN WITHIN THE SURVEY LIMIT LINE ARE THE RESULT OF A FIELD SURVEY PERFORMED BY THIS OFFICE DURING THE MONTH OF NOVEMBER 2023."



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**GENERAL NOTES:**

- THE ENGINEER OF RECORD SHALL BE NOTIFIED REGARDING ANY OMISSIONS OR ERRORS WITHIN THIS PLAN SET UPON DISCOVERY AND WORK SHALL BE STOPPED UNTIL AN AGREEMENT HAS BEEN MADE WITH THIS FIRM REGARDING CORRECTIVE ACTION.
- THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE EXISTING SITE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTION ACCORDING TO AGENCY INSTRUCTION.
- THE CONTRACTOR SHALL PERFORM WORK PER THIS PLAN SET IN ACCORDANCE WITH ALL MUNICIPAL, STATE AND FEDERAL REGULATIONS, SPECIFICATIONS, CODES AND STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION MEANS AND METHODS AND CONSTRUCTION CONDITIONS. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LABOR AND SAFETY REQUIREMENTS (IE. OSHA, NIOSH, MSHA, NH DOL, ETC.).
- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", INCLUDING ALL REVISIONS AND ADDENDA, AS WELL AS THE TOWN OF MILFORD REGULATIONS, SPECIFICATIONS, CODES AND STANDARDS.
- THE CONTRACTOR SHALL NOTIFY THE TOWN OF MILFORD REGARDING ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND/OR RIGHT-OF-WAYS WITHOUT APPROPRIATE PERMITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY.
- IN THE EVENT OF CONFLICTING STANDARDS, SPECIFICATIONS, CODES, REGULATIONS, ETC. THE HIGHER REQUIREMENT SHALL PREVAIL.
- UPON AWARD OF THE CONTRACT THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, SPECIFICATIONS, AND CONTRACT DOCUMENTS.
- PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATION AT INTERFACES WITH PROPOSED PAVEMENTS AND EXISTING GROUND ELEVATIONS ADJACENT TO PROPOSED DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
- TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) INCLUDING ALL REVISIONS AND ADDENDA.
- AREAS DISTURBED BY THE CONTRACTOR OUTSIDE OF THE LIMITS OF WORK SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER. 'ORIGINAL CONDITION' SHALL BE DETERMINED BY THE TOWN OF MILFORD.
- IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, OR OTHER MEDIA ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP ALL OPERATIONS IN THE VICINITY OF THE SUSPECTED CONTAMINATION AND CONTACT THE OWNER IMMEDIATELY.
- CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS, AND CORRECTIVE ACTION.
- DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE EFFECTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE PROJECT DISTURBS MORE THAN ONE (1) ACRE OF LAND AND REQUIRES A CONSTRUCTION GENERAL PERMIT (CGP) FROM THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AS PART OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PHASE II STORMWATER ACT. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND FILE A NOTICE OF INTENT (NOI) WITH THE EPA. THE CONTRACTOR SHALL CONFIRM THAT THE OWNER HAS ALSO FILED AN NOI.
- CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE OWNER PRIOR TO PERFORMING ANY ADDITIONAL SERVICES OR WORK, NOT SHOWN ON THE PROJECT DRAWINGS OR CONTAINED IN THE PROJECT DOCUMENTS. FAILURE TO OBTAIN AUTHORIZATION PRIOR TO PERFORMING WORK, MAY INDEMNIFY THE OWNER FROM ADDITIONAL EXPENSES AND COSTS BORNE BY CONTRACTOR.
- AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (IE BUILDINGS, PAVEMENTS, STONE, ETC.) SHALL RECEIVE A MINIMUM OF FOUR (4) INCHES OF LOAM AND SEED.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE TOWN OF MILFORD ZONING ORDINANCES AND REGULATIONS.
- THE CONTRACTOR SHALL RETAIN ON THE WORK SITE AT ALL TIMES COPIES OF ALL PERMITS NECESSARY FOR ANY CONSTRUCTION.
- CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S CONSTRUCTION MANAGER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO USE ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. CONSTRUCTION MANAGER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.
- CONTRACTOR SHALL REVIEW SOIL REPORTS AND BORINGS PRIOR TO BIDDING THE PROJECT AND COMMENCING CONSTRUCTION.
- CONTRACTOR IS REQUIRED TO OBTAIN FROM THE ENGINEER WRITTEN APPROVAL FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH LOCAL AND STATE REQUIREMENTS. TRAFFIC CONTROL OPERATION PROCEDURES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO THE BEGINNING OF CONSTRUCTION.
- WHERE APPLICABLE, IMPACT FEES TO BE APPLIED AT INDUSTRIAL FEE SCHEDULE.
- THE SITE PLAN REGULATIONS OF THE TOWN OF MILFORD ARE PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT ON COMPLETION OF ALL REQUIREMENTS OF SAID SITE PLAN REGULATIONS, EXCEPTING ONLY ANY WAIVERS OR MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO

**AS-BUILT/COMPLIANCE NOTES:**

- IF APPLICABLE, AS-BUILT PLANS SHALL BE DELIVERED TO THE BUILDING DEPARTMENT PRIOR TO A CERTIFICATE OF OCCUPANCY BEING ISSUED.
- AS-BUILTS MUST MEET THE REQUIREMENTS OF ALL GOVERNING AUTHORITIES, SUCH AS BUT NOT LIMITED TO STATE, LOCAL AND UTILITY PROVIDERS.
- THE ENGINEER OF RECORD AND/OR SURVEYOR ARE TO BE CONTACTED 7 DAYS IN ADVANCE OF AS-BUILT FIELD SURVEY REQUIREMENT FOR EACH CRITICAL ITEM.
- A COMPLIANCE HEARING IS REQUIRED PRIOR TO CERTIFICATE OF OCCUPANCY.

**GENERAL CONTRACTOR NOTES:**

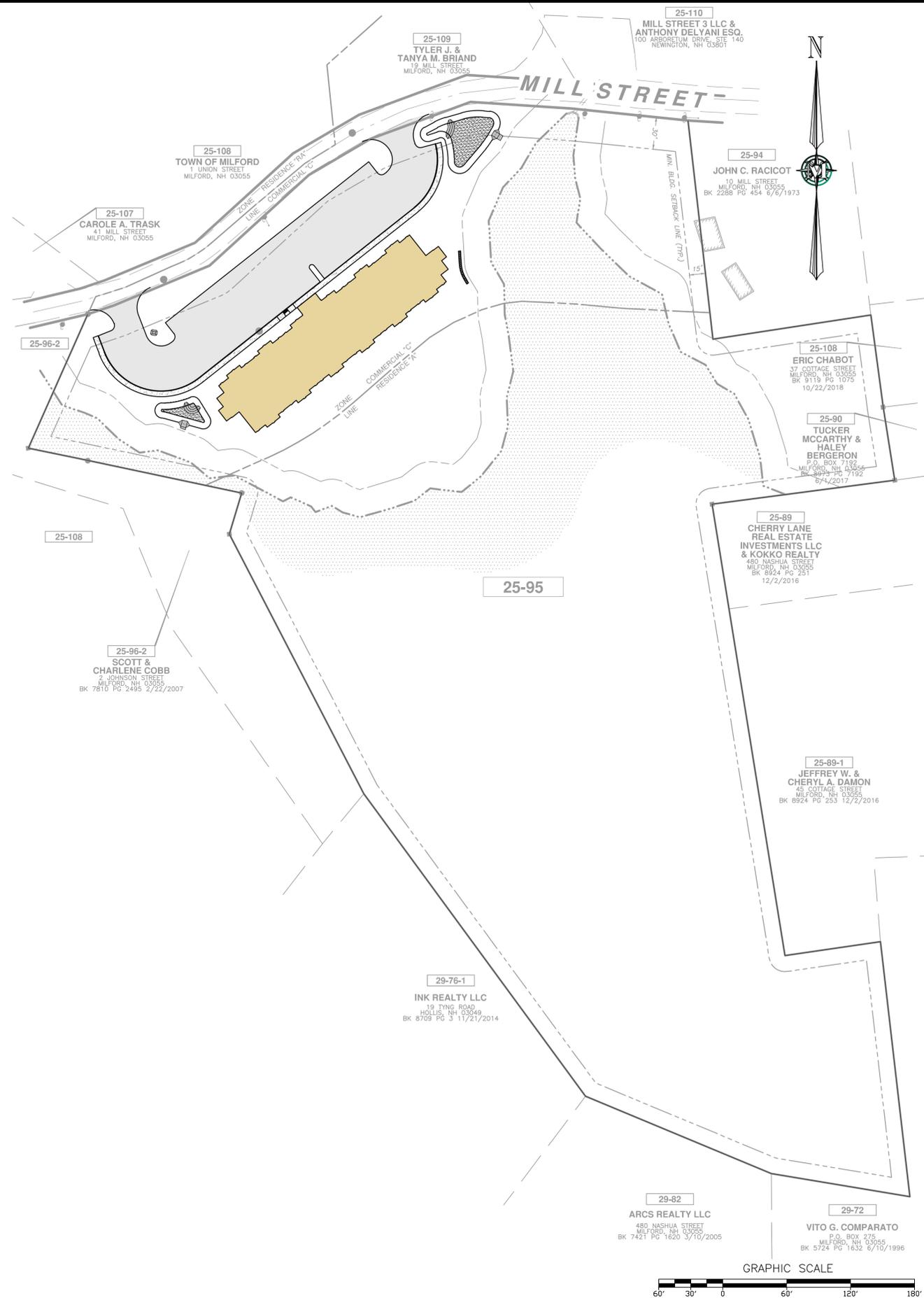
- GENERAL CONTRACTOR AND ALL BIDDING SPECIALTY CONTRACTORS ARE RESPONSIBLE TO ADHERE TO ALL KNOWN PERMIT REQUIREMENTS BY BASE BID.
- GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE PERMIT REQUIREMENTS TO SPECIALTY SUB-CONTRACTORS.
- GENERAL CONTRACTOR SHALL MAINTAIN CONSTRUCTION ENTRANCE IN GOOD CONDITION FOR DURATION OF CONSTRUCTION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO OFF-SITE AREAS AND SHALL REPAIR AFFECTED AREAS BACK TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS

**CONSTRUCTION SEQUENCE:**

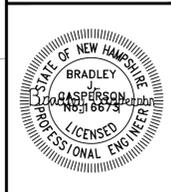
- SURVEY AND MARK LIMITS OF WORK;
- PRIOR TO THE START OF VEGETATION CLEARING AND/OR EARTH ALTERING ACTIVITIES:
  - INSTALL/CONSTRUCT EROSION CONTROL MEASURES (IE SILTATION FENCE, CHECK DAMS, INLET/OUTLET PROTECTION, ETC.) AS INDICATED BY THE APPROVED SWPPP, AND AS DEEMED NECESSARY BY THE OWNER. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF WORK, AND AS REQUIRED BY NHDES AND THE SWPPP;
  - INSTALL TRAFFIC/PEDESTRIAN CONTROL SIGNS, BARRIERS, AND APPURTENANCES AS NECESSARY;
  - CONTACT DIG-SAFE (1-888-DIGSAFE), A MINIMUM OF 72 HOURS, PRIOR TO ANY EARTH MOVING OR EXCAVATION OPERATIONS;
- CLEAR VEGETATION, GRUB AND STOCKPILE TOPSOIL AS REQUIRED TO THE LIMITS OF WORK;
- INSTALL TEMPORARY UTILITY SERVICES AS REQUIRED;
- INSTALL PROPOSED UTILITIES AS REQUIRED;
- REMOVE FEATURES AS NECESSARY AND WHEN APPROPRIATE;
- PREPARE ROADWAY, PARKING LOT/DRIVEWAY, SIDEWALK, AND FOUNDATION PAD BASES, AS NEEDED;
- ADJUST GRATES, COVERS, AND RIMS AS NECESSARY FOR PAVING;
- INSTALL CURBING, AND ROADWAY AND SIDEWALK PAVEMENTS;
- CONSTRUCT STRUCTURES;
- PERFORM ALL REMAINING WORK;
- FINISH GRADE AND RESTORE AREAS OUTSIDE OF THE LIMITS OF WORK DISTURBED BY WORK, INCLUDING BUT NOT LIMITED TO, LAWNS, LANDSCAPE AREAS, WALKS, AND OTHER PRIVATE/PUBLIC FEATURES, DAMAGED BY WORK;
- REMOVE TEMPORARY EROSION CONTROL MEASURES, AFTER AREAS THEY ARE SERVICING HAVE BECOME STABILIZED;
- CLEAN ALL STORM SEWER BASINS, STRUCTURES, PIPES, AND APPURTENANCES OF ANY SILT AND DEBRIS. OUTLET POINTS SHALL BE PROTECTED TO PREVENT ANY ADVERSE DOWNSTREAM IMPACTS.
- CONDUCT FINAL CLEANUP, ANY ANCILLARY WORK, AND DEMOBILIZATION EFFORTS AS REQUIRED.

**LEGEND:**

	LOT LINE
	RIGHT-OF-WAY LINE
	ABUTTING LOT LINE
	ZONING DISTRICT BOUNDARY LINE
	WETLAND BUFFER
	BUILDING SETBACK/WETLAND BUFFER LINE
	2' CONTOUR INTERVAL
	10' CONTOUR INTERVAL
	WETLAND
	EDGE OF GRAVEL
	EDGE OF PAVEMENT
	FOLIAGE LINE
	OVERHEAD UTILITIES
	SEWER LINE
	DRAINAGE PIPE
	SEWER LINE
	SEWER LINE
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED UNDERGROUND ELECTRIC LINE
	CONCRETE
	BUILDING
	PROPOSED BUILDING
	PROPOSED RETAINING WALL
	PROPOSED PAVEMENT
	PROPOSED CONCRETE
	PROPOSED BASIN
	PROPOSED RIPRAP
	PROPOSED FLARED END SECTION
	PROPOSED SIGN



**MERIDIAN**  
 LAND SERVICES, INC.  
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 31 OLD NASHUA ROAD, AMHERST, NH 03801 TEL: 603-673-1441  
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OVERVIEW PLAN, PROJECT NOTES & LEGEND

30 MS MILFORD, LLC  
 30 MILL STREET  
 MAP 25 LOT 95  
 MILFORD, NEW HAMPSHIRE

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 SHEET  
 FILE: 12377100.dwg  
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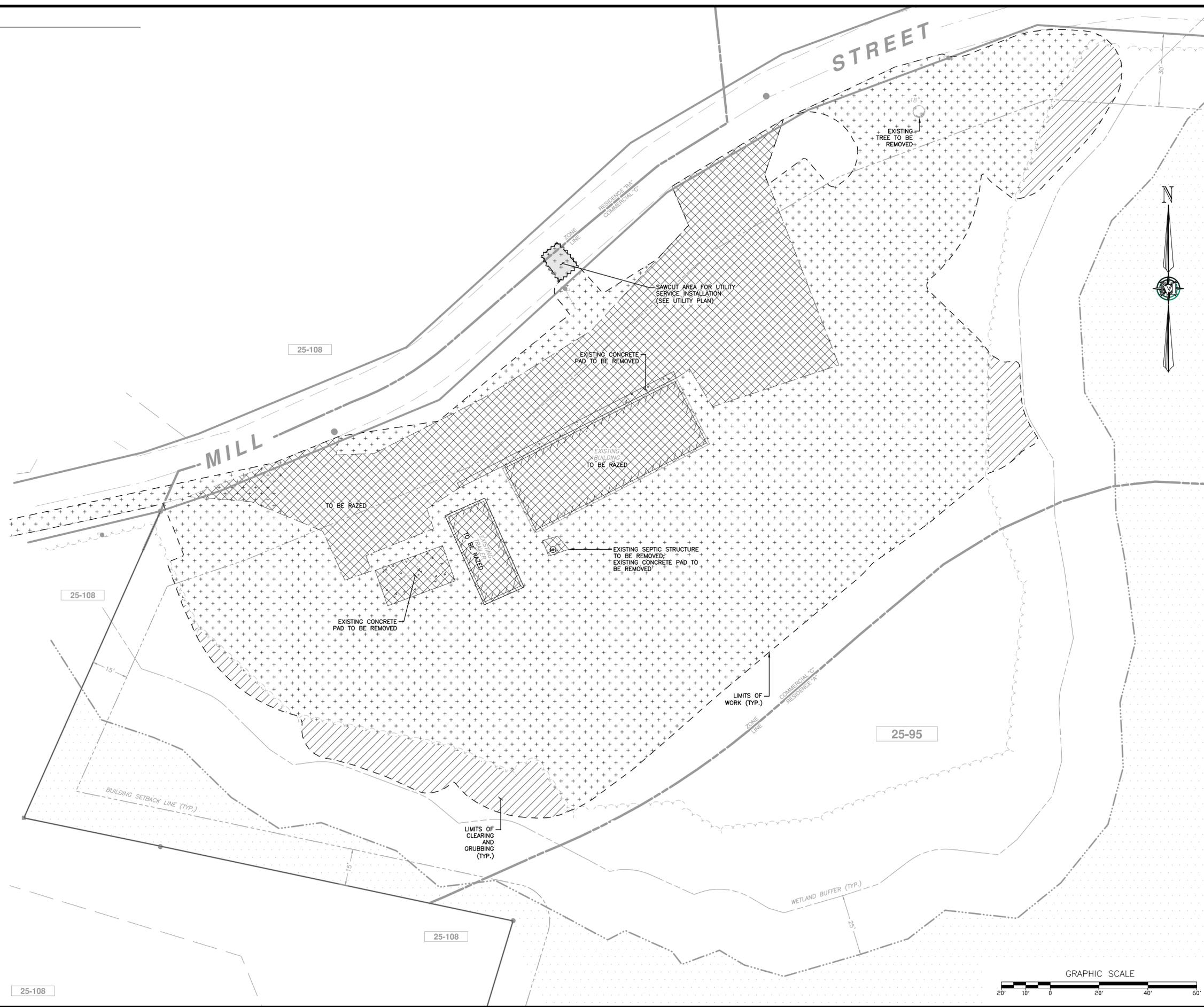
**DEMOLITION LEGEND:**

-  SAWCUT AREA
-  LIMITS OF CLEARING AND GRUBBING
-  DEMOLITION AREA
-  SITE DISTURBANCE AREA

SEE OVERVIEW PLAN,  
PROJECT NOTES & LEGEND  
SHEET FOR PROPOSED  
CONDITIONS LEGEND

**DEMOLITION NOTES:**

1. EROSION CONTROL TO BE INSTALLED PRIOR TO GROUND DISTURBANCE. SEE EROSION AND SEDIMENTATION CONTROL PLAN.
2. THE CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES IN THE AREA 72 HOURS (MINIMUM) PRIOR TO COMMENCING DEMOLITION.
3. DEBRIS CONTAINERS ARE REQUIRED ONSITE.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMITS OF WORK INCLUDING NOT LIMITED TOO, BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCING, SIGNS, UTILITIES AND APPURTENANCES, UNLESS OTHERWISE INDICATED AND AS FOLLOWS:
  - A. DO NOT REMOVE ACTIVE UTILITIES;
  - B. THE EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE, AND AS FOLLOWS:
    - I. TERMINATIONS AND EXPOSED ENDS, SHALL BE PLUGGED WITH GROUT;
    - II. SHALL BE REMOVED WITHIN FIVE FEET (5') OF ANY PROPOSED SUBSURFACE UTILITY WORK.
  - II. SALVAGEABLE AND REUSABLE MATERIALS DETERMINED BY THE OWNER WHICH MAY INCLUDE BUT NOT BE LIMITED TOO, CURBING, SIGNS, HYDRANTS, VALVES, STRUCTURES, ETC. SALVAGEABLE MATERIALS SHALL BE DETERMINED BY THE OWNER PRIOR TO THE START OF WORK.
5. CONTRACTOR SHALL BECOME THE OWNER OF AND DISPOSE OF ALL MATERIALS, DEBRIS, AND ITEMS IN ACCORDANCE WITH APPLICABLE LAW(S).



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DEMOLITION & SITE  
PREPARATION PLAN

30 MS MILFORD, LLC  
30 MILL STREET  
MAP 25 LOT 95  
MILFORD, NEW HAMPSHIRE

**DM-1**  
SHEET  
FILE: 12377100.dwg  
PROJECT NO. 12377.00  
SHEET NO. 4 OF 13

NOVEMBER 20, 2023

SCALE: 1" = 20'



SEE OVERVIEW PLAN,  
PROJECT NOTES & LEGEND  
SHEET FOR PROPOSED  
CONDITIONS LEGEND

**TRAFFIC SIGNAGE AND MARKING NOTES:**

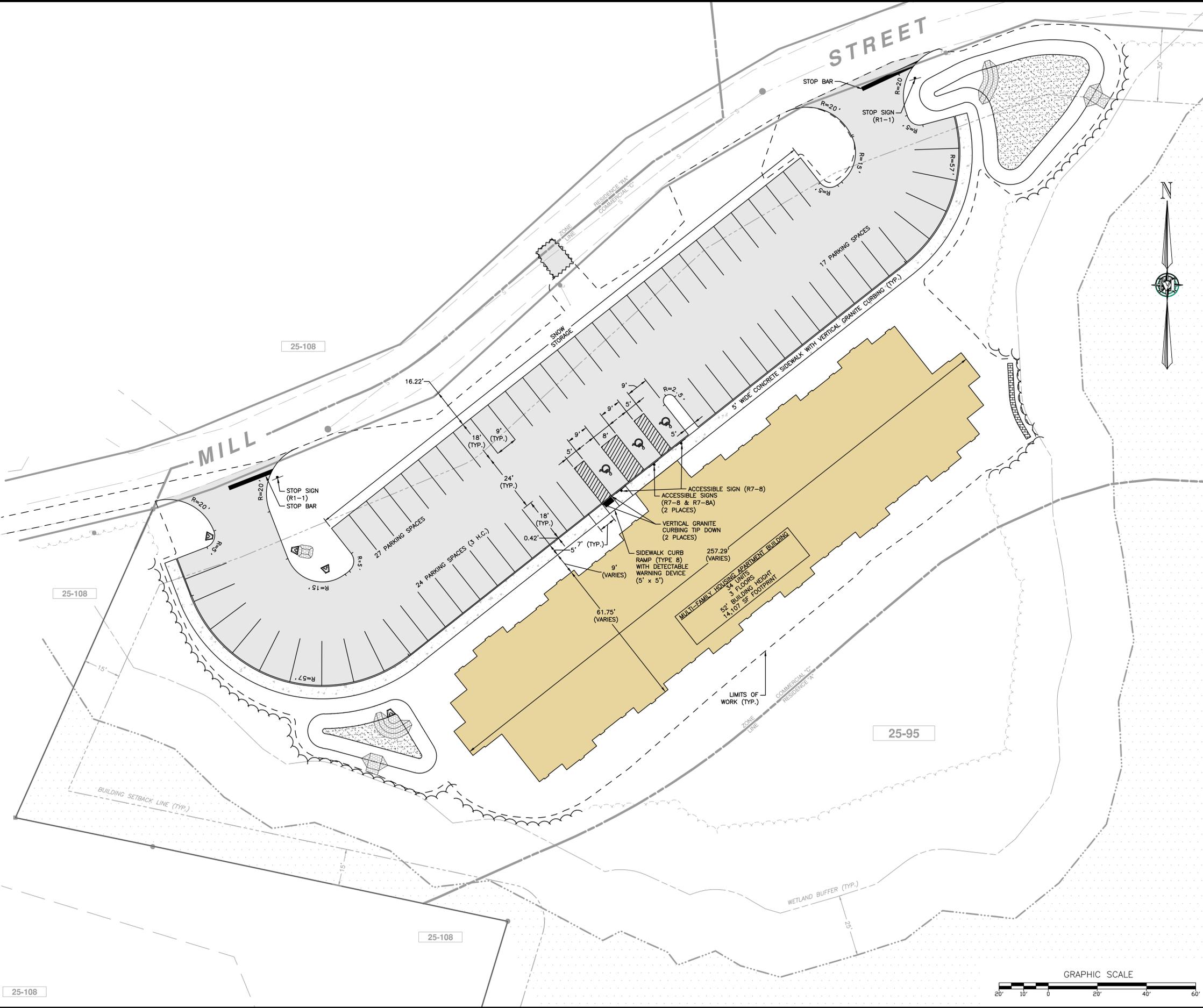
1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE N.H.D.O.T. STANDARDS.
2. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE N.H.D.O.T. STANDARDS.
3. ALL STOP SIGN LOCATIONS SHALL INCLUDE A 18" THICK PAINTED WHITE STOP BAR UNLESS NOTED OTHERWISE. ALL OTHER STRIPING SHALL BE 4" THICK PAINTED YELLOW UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL COMPLY WITH THE STATE OF NEW HAMPSHIRE TRAFFIC CONTROL.
5. ALL SYMBOLS, WORDS, TRANSVERSE MARKINGS (STOP BARS, CROSSWALK LINES, AND RAILROAD SYMBOLS), LANE LINES, AND ALL OTHER MARKINGS NOTED WITH (T) SHALL BE THERMOPLASTIC.
6. PAVEMENT MARKINGS SHALL EXTEND BEYOND PROJECT PAVING LIMITS TO OVERLAP EXISTING MARKINGS DISTURBED BY CONSTRUCTION.
7. UNLESS OTHERWISE NOTED ALL PAVEMENT MARKINGS SHALL BE:  
SINGLE SOLID LINE WHITE (SSLW)  
DOUBLE SOLID LINE YELLOW (DSLW)

**LAYOUT AND MATERIALS NOTES:**

1. DIMENSIONS ARE FROM FACE OF CURB/EDGE OF PAVEMENT, FACE OF BUILDINGS, FACE OF WALLS, CENTER OF PIPE, AND CENTER OF PAVEMENT MARKINGS, UNLESS OTHERWISE INDICATED, AND AS FOLLOWS:  
A. PIPE SEPARATION IS MEASURED FROM THE OUTSIDE DIAMETERS OF PIPE(S).
2. EXISTING PROPERTY MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A LICENSED LAND SURVEYOR (LLS).
3. IN ORDER TO PROVIDE VISUAL CLARITY ON THE PLANS NOT ALL DEPICTED ITEMS ARE SHOWN ON EVERY PLAN SHEET. THE CONTRACTOR SHALL USE ENTIRE PLAN SETS AND NOT RELY ON INDIVIDUAL SHEETS DURING CONSTRUCTION.
4. STATED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
5. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURER'S LITERATURE, SHOP DRAWINGS, AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
6. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM DESIGNERS. BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH PAPER COPIES OF THE DRAWINGS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
7. "ALL WORKMANSHIP AND MATERIALS INCORPORATED INTO THIS WORK SHALL CONFORM TO APPLICABLE REQUIREMENTS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS PUBLISHED BY THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, LATEST EDITION; AND THE "MILFORD SUBDIVISION REGULATIONS"

**PAVING AND GRADING NOTES:**

1. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
3. ALL GRADING OPERATIONS SHALL BE STAKED BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR APPROVED BY THE OWNER.
4. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
5. ALL PAVEMENT TO BE SLOPED FOR POSITIVE DRAINAGE.



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LAND SERVICES, INC.  
ENGINEERING | SURVEYING | PERMITTING  
SOIL & WETLAND MAPPING | GEOTECH DESIGN  
31 OLD NASHUA ROAD, AMHERST, NH 03051 | TEL: 603-673-1441  
MERIDIANLANDSERVICES.COM | FAX: 603-673-1584



REV.	DATE	DESCRIPTION	DR	CK
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**SITE LAYOUT, PAVEMENT MARKING & SIGNAGE PLAN**

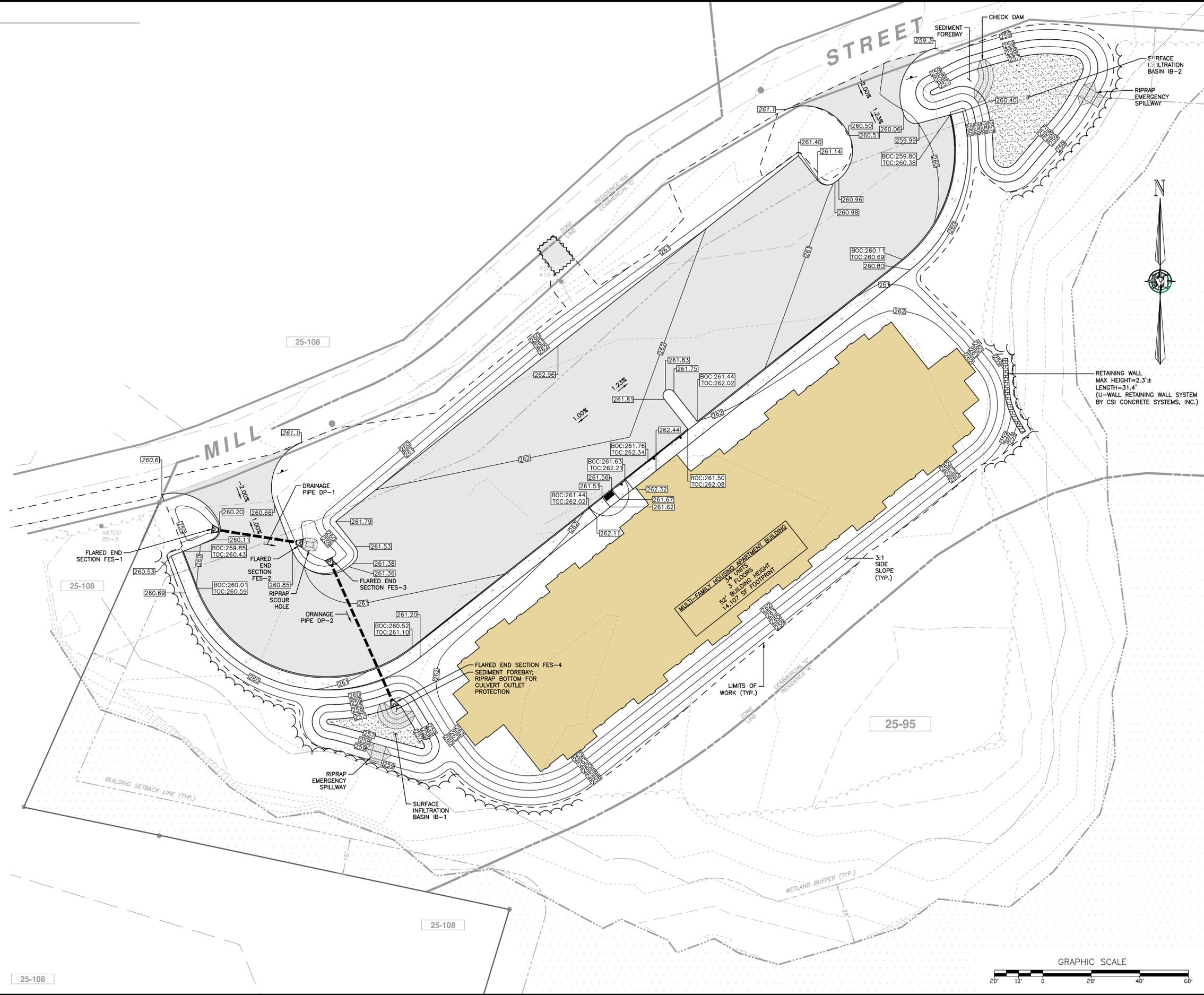
30 MS MILFORD, LLC  
30 MILL STREET  
MAP 25 LOT 95  
MILFORD, NEW HAMPSHIRE

**SP-1**  
SHEET  
FILE: 12377100.dwg  
PROJECT NO. 12377.00  
SHEET NO. 6 OF 13

**ABBREVIATION KEY:**

BOC BOTTOM OF CURB  
 TOC TOP OF CURB

SEE OVERVIEW PLAN,  
 PROJECT NOTES & LEGEND  
 SHEET FOR PROPOSED  
 CONDITIONS LEGEND



**NOTES:**  
 1. FOR NOTES RELATING TO DRAINAGE, SEE UTILITY NOTES ON UTILITY PLAN.

25-108



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**GRADING & DRAINAGE PLAN**

30 MS MILFORD, LLC  
 30 MILL STREET  
 MAP 25 LOT 95  
 MILFORD, NEW HAMPSHIRE

**SP-2**  
 SHEET  
 FILE: 12377100.dwg  
 PROJECT NO. 12377.00  
 SHEET NO. 7 OF 13

NOVEMBER 20, 2023

SCALE: 1" = 20'

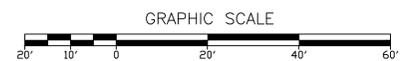
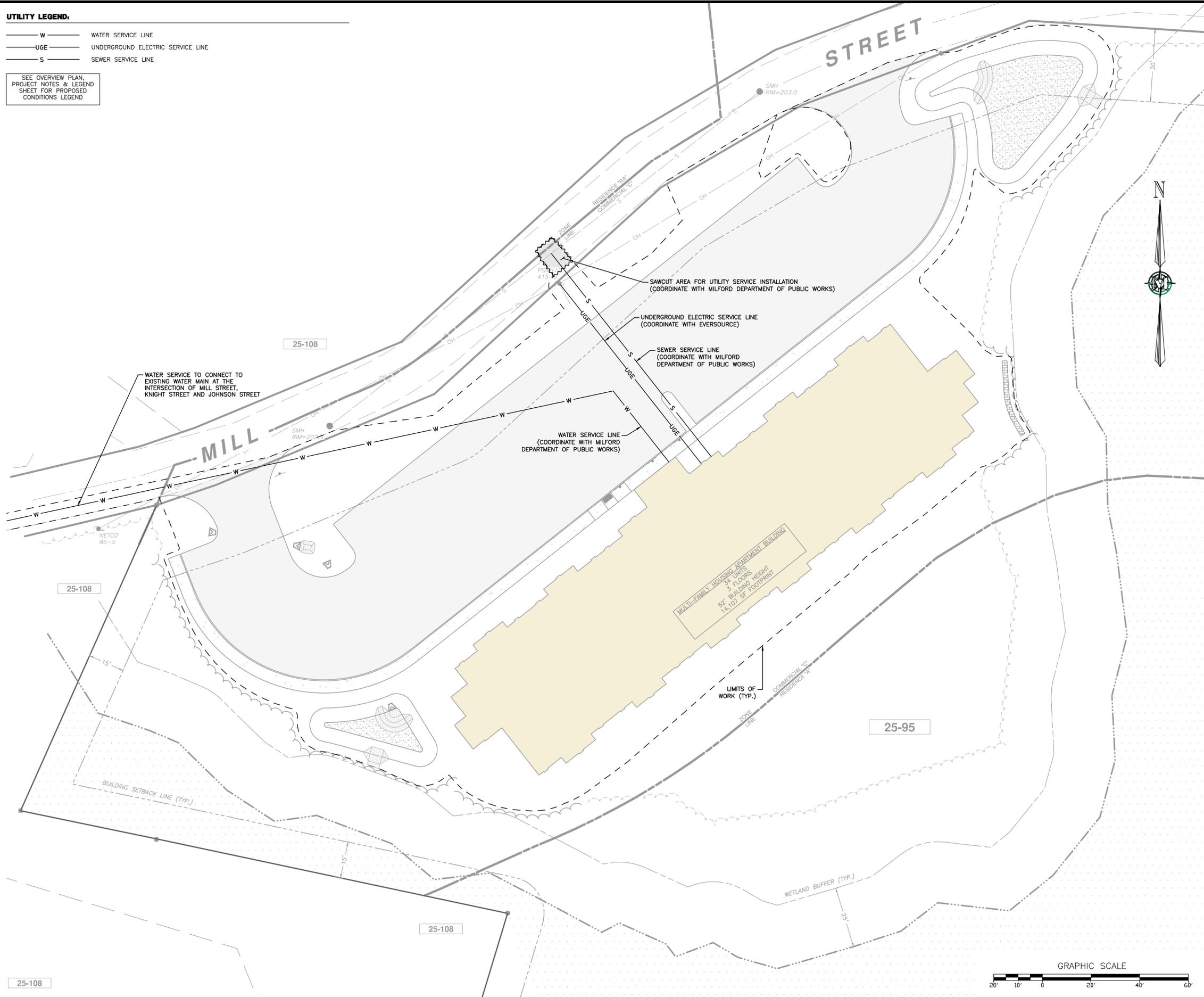
**UTILITY NOTES:**

- THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE CONTRACTOR SHALL CONTACT DIG-SAFE AT 1-888-DIG-SAFE TO FIELD VERIFY ALL UTILITY LOCATIONS A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH DIG-SAFE, REVIEWING FOR POTENTIAL CONFLICTS AND REPAIR/RELOCATION/REMOVAL OF EXISTING UTILITIES.
- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY COMPANIES WITHIN THE CONSTRUCTION AREAS AS NEEDED. CONSTRUCTION IN THESE AREAS ARE THE CONTRACTOR'S RESPONSIBILITY.
- LOCATIONS, SIZES AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT NECESSARILY INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE DRAWINGS, AND AS FOLLOWS:
  - UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE SERVICEABILITY OF UTILITIES;
  - DOES NOT GUARANTEE THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT, WHICH MAY NOT BE SHOWN ON THE DRAWINGS;
  - PRIOR TO ORDERING MATERIALS CONTRACTOR SHALL:
    - VERIFY AND DETERMINE EXACT LOCATIONS, SIZES, ELEVATIONS, AND MATERIAL TYPES OF EXISTING UTILITIES AT POINTS OF CONNECTIONS;
    - CONFIRM THAT THERE ARE NOT INTERFERENCES WITH EXISTING UTILITIES AND PROPOSED ROUTES.
- WHERE EXISTING UTILITIES ARE FOUND TO CONFLICT WITH PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON THE DRAWINGS, SUCH THAT WORK CANNOT BE COMPLETED AS INTENDED ON THE DRAWINGS, THE CONTRACTOR SHALL:
  - CONTACT THE OWNER AND DESIGNATED REPRESENTATIVE(S), WITHOUT DELAY BY THE CONTRACTOR, AND FURNISH THE FOLLOWING INFORMATION AS FOLLOWS:
    - IN WRITING;
    - ACCURATE LOCATION, ELEVATION, SIZE, TYPE, AND MATERIAL OF THE UTILITY;
  - FAILURE OF THE CONTRACTOR TO NOTIFY THE OWNER, MAY INDEMNIFY THE OWNER OF ANY ADDITIONAL COSTS, CHANGE ORDERS, OR FEES BORNE BY THE CONTRACTOR AND AS FOLLOWS:
    - IN A TIMELY FASHION OR PER THE CONTRACT DOCUMENTS FOR RESOLUTION OF A CONFLICT;
    - PERFORMING ADDITIONAL WORK OR DIFFERENTIATION FROM THE CONTRACT DOCUMENTS, WITHOUT OBTAINING AUTHORIZATION FROM THE OWNER.
- LOCATION, SIZE, DEPTH AND CONSTRUCTION SPECIFICATIONS OF PROPOSED PRIVATE UTILITIES AND SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, CABLE, FIRE ALARM, SECURITY ALARM, ETC.).
- STORM AND SANITARY SEWER STRUCTURES SHALL HAVE A MINIMUM INTERIOR DIAMETER OF FOUR FEET (4'). THE FINAL INTERIOR DIAMETER SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE SIZES AND CONFIGURATIONS SHOWN ON THE DRAWINGS.
- GRATES, COVERS, VALVE COVERS, GAS GATES, PULL BOX COVERS SHALL BE SET AND/OR RESET AS FOLLOWS:
  - PAVEMENT SURFACES: FLUSH
  - SURFACES WITHIN ACCESSIBLE ROUTES: FLUSH
  - LANDSCAPE, TURF, OR OTHER EARTH SURFACES: ONE INCH (1") ABOVE FINAL GRADE, WITH EARTH TAPERED UP TO THE FINAL COVER/RIM ELEVATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH AND PAYING FEES ASSOCIATED FOR RELOCATING AND/OR ALTERATION TO UTILITY POLES AND ABOVE AND/OR UNDERGROUND UTILITIES (IE GAS, TELEPHONE, ELECTRIC, CABLE, FIRE/SECURITY ALARM, ETC.), IRRESPECTIVE OF WHETHER THE WORK IS PERFORMED BY THE PRIVATE UTILITY.
- INSTALLATION OF ALL PROPOSED UTILITIES SHALL BE UNDERGROUND.
- THE CONTRACTOR SHALL STABILIZE ALL STORMWATER BMPs PRIOR TO DISCHARGING STORMWATER RUNOFF TO THEM.
- AS REQUIRED, UNDERDRAINS IN CUT SECTIONS SHALL DISCHARGE TO A STORMWATER BASIN, SWALE OR DRAINAGE STRUCTURE.
- CATCH BASINS RECEIVING STORMWATER RUNOFF DURING CONSTRUCTION SHALL HAVE INLET PROTECTION INSTALLED. UPON THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ANY SEDIMENT ACCUMULATION WITHIN DRAINAGE STRUCTURES AND PIPES.
- DRAINAGE PIPE LENGTHS NOTED ARE AS FOLLOWS:
  - CATCH BASIN/MANHOLE: MEASURED FROM THE INSIDE WALLS OF THE STRUCTURES
  - FLARED END SECTION/HEADWALLS: MEASURED FROM THE INVERT OF THE STRUCTURE
- ALL DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (ADS N-12, HANCOR HI-Q OR EQUAL) OR REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED.
- PROPOSED LOTS TO BE SERVED BY MUNICIPAL SEWER AND MILFORD WATER UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL NECESSARY CONDUIT AND PULL WIRE ON-SITE UP TO PROPERTY. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE SERVICE LINES WITH THE POWER COMPANY.
- CONTRACTOR SHALL PROVIDE TRANSFORMER PAD (UNLESS TRANSFORMER IS POLE MOUNTED) TO ALLOW FOR INSTALLATION OF TRANSFORMER BY POWER COMPANY.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE PVC CONDUIT INCLUDING TRENCHING BEDDING, PULL WIRE, AND BACKFILLING. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE TELEPHONE COMPANY TO SCHEDULE AND COORDINATE WORK PRIOR TO INSTALLING CONDUIT.

**UTILITY LEGEND:**

- W — WATER SERVICE LINE
- UGE — UNDERGROUND ELECTRIC SERVICE LINE
- S — SEWER SERVICE LINE

SEE OVERVIEW PLAN, PROJECT NOTES & LEGEND SHEET FOR PROPOSED CONDITIONS LEGEND



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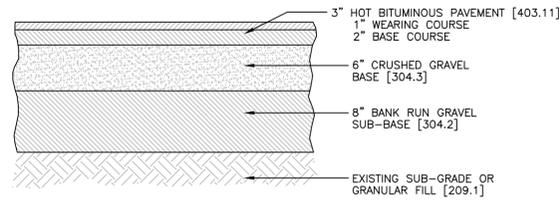
STATE OF NEW HAMPSHIRE  
 BRADLEY CASPERSON  
 LICENSE NO. 18673  
 PROFESSIONAL ENGINEER

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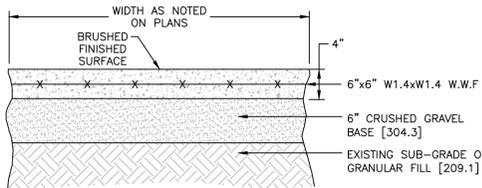
**UTILITY PLAN**

30 MS MILFORD, LLC  
 30 MILL STREET  
 MAP 25 LOT 95  
 MILFORD, NEW HAMPSHIRE

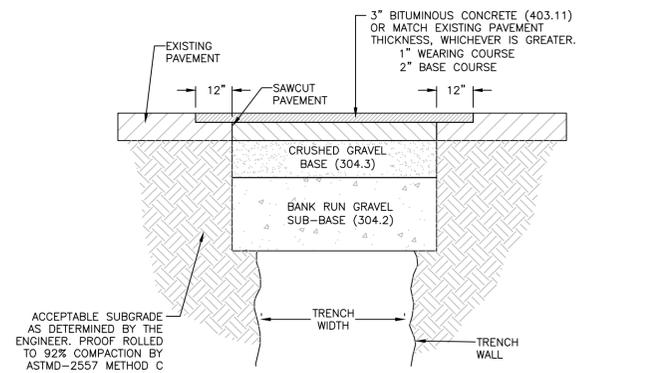
**U-1**  
 SHEET  
 FILE: 12377100.dwg  
 PROJECT NO. 12377.00  
 SHEET NO. 8 OF 13



**PAVEMENT - PARKING SECTION**  
[NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION ITEM NO.] SCALE: NONE **1 D-1**

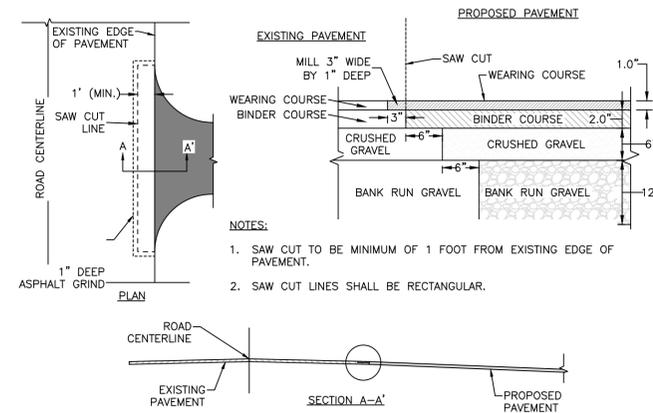


**PAVEMENT - CONCRETE**  
[NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION ITEM NO.] SCALE: NONE **2 D-1**

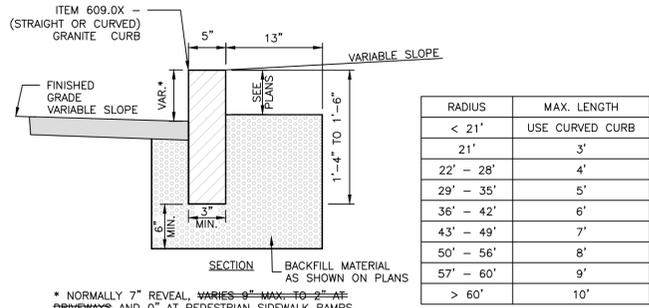


- NOTES:**
1. THE BINDER COURSE SHALL BE PLACED IMMEDIATELY AFTER THE TRENCH CONSTRUCTION AND ALLOWED TO STAND FOR A MINIMUM OF 90 DAYS. A LEVELING COURSE SHALL BE APPLIED OVER THE TRENCH AFTER 90 DAYS.
  2. TRENCH RESTORATION WILL CONFORM TO THE REQUIREMENTS OF THE TOWN OF MILFORD.

**PAVEMENT TRENCH RESTORATION**  
SCALE: NONE **3 D-1**



**PAVEMENT BUTT JOINT DETAIL**  
SCALE: NONE **4 D-1**

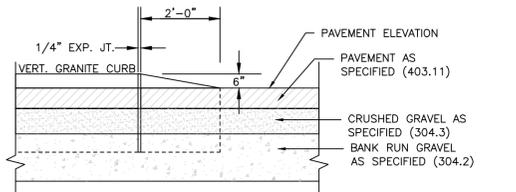


RADIUS	MAX. LENGTH
< 21'	USE CURVED CURB
21'	3'
22' - 28'	4'
29' - 35'	5'
36' - 42'	6'
43' - 49'	7'
50' - 56'	8'
57' - 60'	9'
> 60'	10'

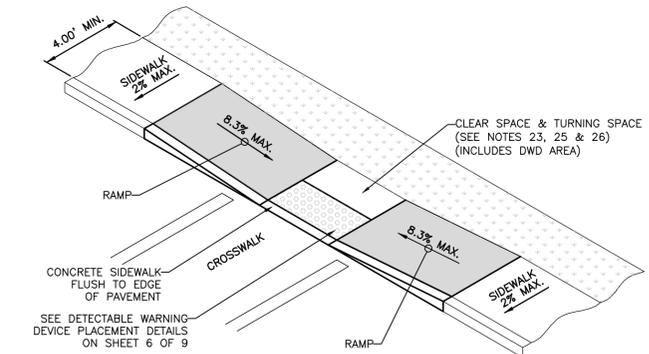
\* NORMALLY 7" REVEAL, VARIES 9" MAX. TO 2" AT DRIVEWAYS AND 0" AT PEDESTRIAN SIDEWALK RAMPS.

NOTE: ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.

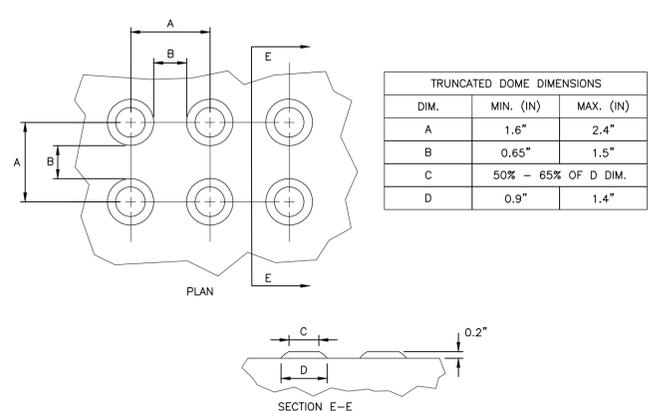
**STRAIGHT OR CURVED GRANITE CURBING**  
[NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD PLAN CR-2 PLATE 1] SCALE: NONE **5 D-1**



**CURB - TYPICAL END TIP DOWN**  
[NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION ITEM NO.] DEC. 14, 2021 SCALE: NONE **6 D-1**



**SIDEWALK CURB RAMP DETAIL - TYPE 8 - MID BLOCK CROSSING OR T INTERSECTION**  
[NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION HIGHWAY DETAILS] SCALE: NONE **7 D-1**



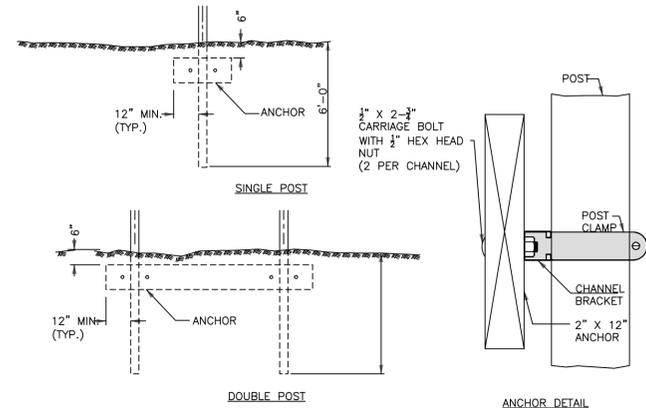
TRUNCATED DOME DIMENSIONS		
DIM.	MIN. (IN.)	MAX. (IN.)
A	1.6"	2.4"
B	0.65"	1.5"
C	50% - 65% OF D DIM.	
D	0.9"	1.4"

**DETECTABLE WARNING DEVICES (DWD) TRUNCATED DOME**  
[NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION HIGHWAY DETAILS] SCALE: NONE **8 D-1**



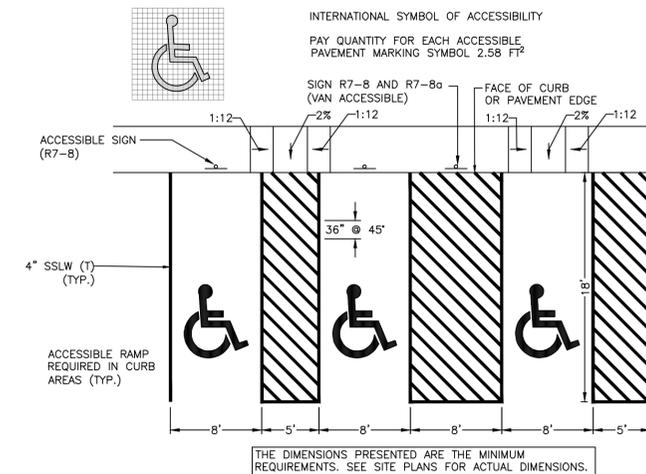
- GENERAL NOTES:**
1. ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM TO "NH DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", SECTIONS 615 AND 632, AS AMENDED, AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
  2. THE CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL SIGNING AND PAVEMENT MARKINGS.

**TRAFFIC SIGNS**  
SCALE: NONE **9 D-1**



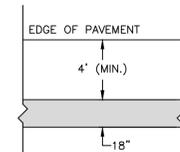
- NOTES:**
1. MULTIPLE POST SIGNS MUST BE PROTECTED BY GUARDRAIL OR OTHER POSITIVE BARRIER, UNLESS BREAKAWAY MOUNTED.
  2. THE MINIMUM HORIZONTAL CLEARANCE TO THE NEAR EDGE OF THE SIGN OF ANY MULTIPLE POST NON-BREAKAWAY MOUNT SIGN SHALL BE 7'-0" MIN. FROM FACE OF BEAM GUARDRAIL. OTHER TYPES OF GUARDRAIL OR BARRIER MAY REQUIRE A DIFFERENT OFFSET.
  3. ALL HARDWARE SHALL BE STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.

**U-CHANNEL POST**  
[NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION HIGHWAY DETAILS] SCALE: NONE **10 D-1**



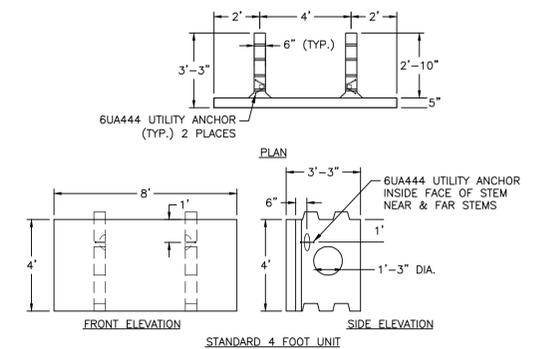
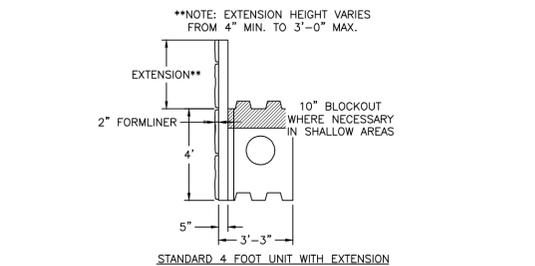
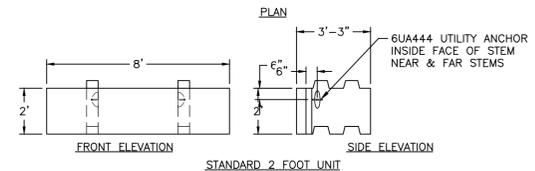
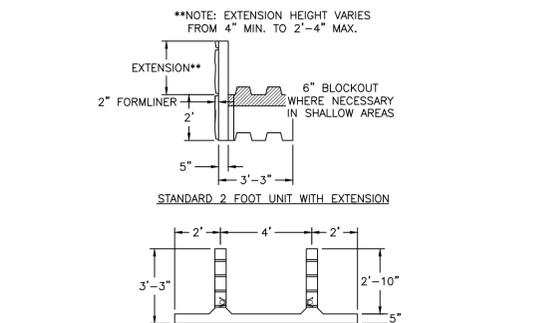
- NOTES:**
1. VAN ACCESS AISLE SHALL BE A MINIMUM OF 8' WIDE. R7-8A SIGN WILL BE ADDED TO VAN ACCESSIBLE PARKING SIGN R7-8.
  2. (T) = THERMOPLASTIC PAVEMENT MARKING

**HANDICAP PARKING - STANDARD**  
[NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION DETAIL PLAN NO. PM-11] SCALE: NONE **11 D-1**



- NOTES:**
1. ALL WORDS AND SYMBOLS SHALL BE RETROREFLECTIVE WHITE AND SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD.
  2. PREFORMED WORDS AND SYMBOLS SHALL BE PRE-CUT BY THE MANUFACTURER.
  3. ALL STOP BARS, WORDS, AND CROSSWALKS SHALL BE THERMOPLASTIC

**STOP BAR DETAIL**  
DEC. 14, 2021 SCALE: NONE **12 D-1**



- NOTES:**
1. ALL MATERIALS AND HARDWARE SHALL BE HOT DRIP GALVANIZED.
  2. ALL MATERIALS ABOVE GRADE SHALL BE POWDER COATED (DARK FOREST GREEN) OR COLOR APPROVED BY OWNER.

**UWALL RETAINING WALL SYSTEM**  
[CSI CONCRETE SYSTEMS, INC.] SCALE: NONE **13 D-1**



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**CONSTRUCTION DETAILS**

30 MS MILFORD, LLC  
30 MILL STREET  
MAP 25 LOT 95  
MILFORD, NEW HAMPSHIRE

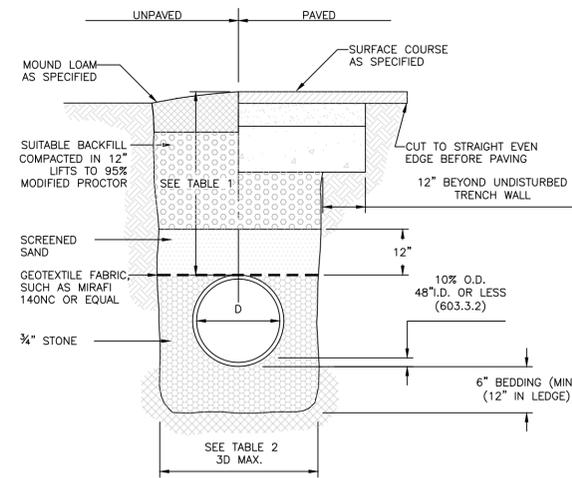
**D-1**  
SHEET  
FILE: 12377V00.dwg  
PROJECT NO. 12377.00  
SHEET NO. 9 OF 13

NOVEMBER 20, 2023

SCALE: 1" = AS NOTED

30 MILL ROAD, AMHERST, NH 03051 TEL: 603-673-1584  
MERIDIANLANDSERVICES.COM FAX: 603-673-1584

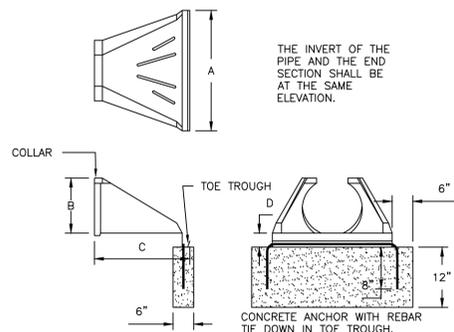
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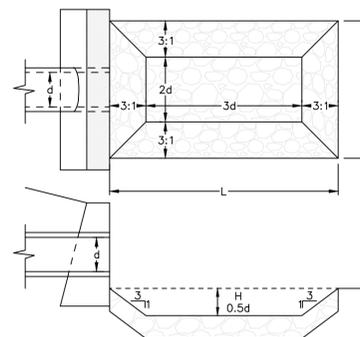
LOCATION	PIPE MATERIAL	MINIMUM COVER
PAVED ROADS	ALL	3 FT.
UNPAVED ROADS	ALL	3 FT.
DRIVEWAYS	ALL	1 FT.
UNPAVED AREAS	ALL	2 FT.

INSIDE DIAMETER	TOTAL WIDTH
12" TO 24"	I.D. + 24"
OVER 24"	2 x I.D.

DIMENSION	10-12	15	18	24	30	36
A	42	41	49	59.50	88	88
B	14.50	19	22	28	36	43
C	33	34	43	48	63.50	66.50
D	6	6	6	6	6	6



LOCATION	L (FT)	W (FT)	H (FT)	d50 (IN)	T (IN)
FES-2	6	5	0.50	4	8



PERMANENT OUTLET PROTECTION - RIP RAP SCOUR HOLE

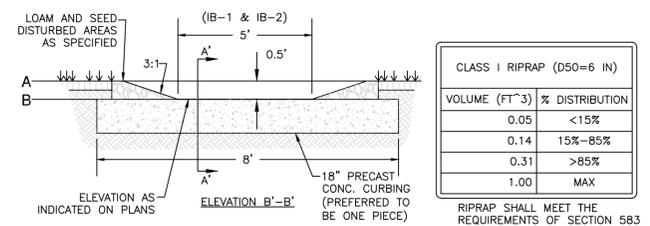
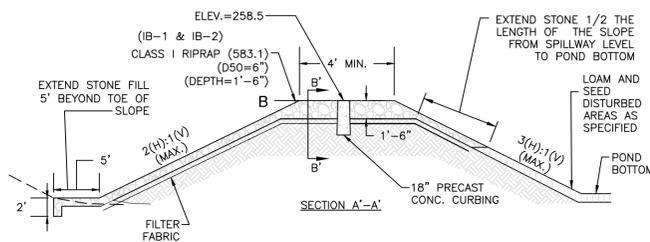
SCALE: NONE  
D-2

TYPICAL DRAINAGE PIPE TRENCH

SCALE: NONE  
D-2

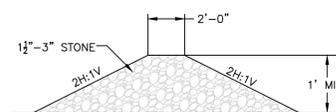
FLARED END SECTION (FES) - HDPE

SCALE: NONE  
D-2



VOLUME (FT <sup>3</sup> )	% DISTRIBUTION
0.05	<15%
0.14	15%-85%
0.31	>85%
1.00	MAX

	BOTTOM/SEDIMENT FOREBAY ELEV.	CREST ELEV.
IB-1	257.00	258.00
IB-2	257.00	258.00



EMERGENCY SPILLWAY

SCALE: NONE  
D-2

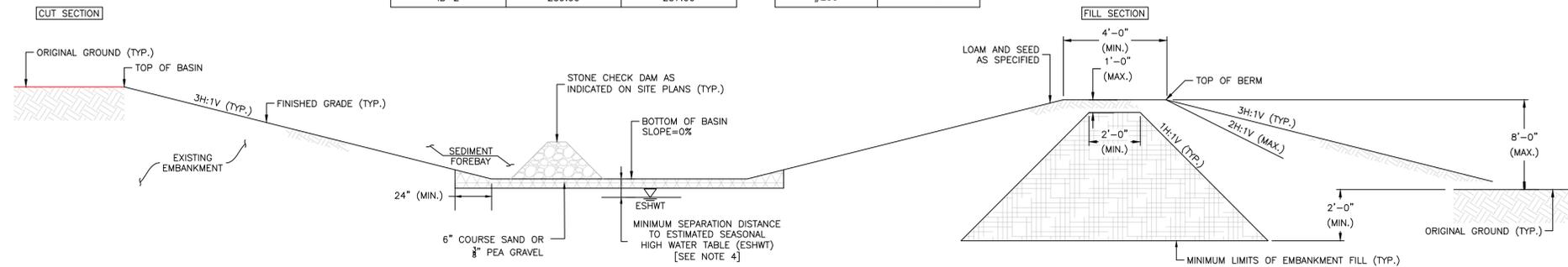
PERMANENT STONE CHECK DAM

SCALE: NONE  
D-2

NOTES:

- ITEM NO.'S REFER TO THE CURRENT EDITION OF THE NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ORIGINAL GROUND AND FINISHED GRADE ELEVATIONS, SLOPES, WIDTHS, LENGTHS, ETC. SHALL BE PER THE GRADING PLANS.
- ALL DISTURBED AREAS OTHER THAN THE BASIN FLOOR SHALL BE STABILIZED WITH LOAM AND SEED AS SPECIFIED. VEGETATION SHOULD BE ESTABLISHED IMMEDIATELY. SEED BASIN SIDE SLOPES WITH "NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES", MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. OR EQUAL.
- THE MINIMUM VERTICAL SEPARATION FROM THE BOTTOM OF THE PRACTICE TO THE SEASONAL HIGH WATER TABLE SHALL BE 1 FOOT IF STORMWATER HAS BEEN TREATED PRIOR TO ENTERING THE PRACTICE, 4 FEET IF WITHIN A GROUNDWATER OR WATER SUPPLY INTAKE PROTECTION AREA, AND 3 FEET IN ALL OTHER CASES.
- EMBANKMENT FILL SHALL BE PLACED IN ALL BERMS AND/OR AREAS IN WHICH AN OBSTRUCTION IS CREATED ABOVE ORIGINAL GROUND TO IMPOUND WATER. ALL EMBANKMENT FILL SHALL BE A HIGH SILT CONTENT GLACIAL TILL MEETING THE GRADATION OUTLINED IN TABLE 2. ALTERNATE MATERIALS MAY BE SUBMITTED TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL.
- DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE INFILTRATION SYSTEM.
- DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
- AFTER THE AREA IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
- DO NOT PLACE INFILTRATION SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

STORMWATER BASIN - SURFACE INFILTRATION BASIN



SURFACE BASIN	TOP OF BERM/BASIN	BOTTOM OF BASIN
IB-1	259.00	257.00
IB-2	259.00	257.00

US STANDARD SIEVE SIZE (IN/MM)	PERCENT PASSING
3"	100
3/4"	75-100
#4	65-90
#40	10-70
#100	25-60
#200	15-50

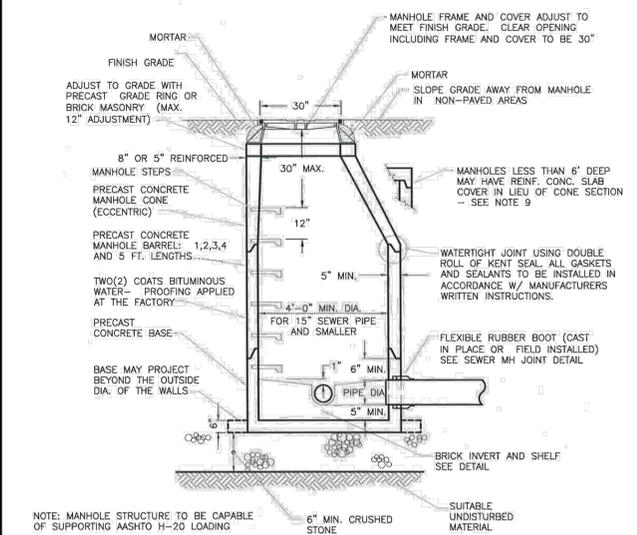
SCALE: NONE  
D-2

REV.	DATE	DESCRIPTION	DR	CK
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3				
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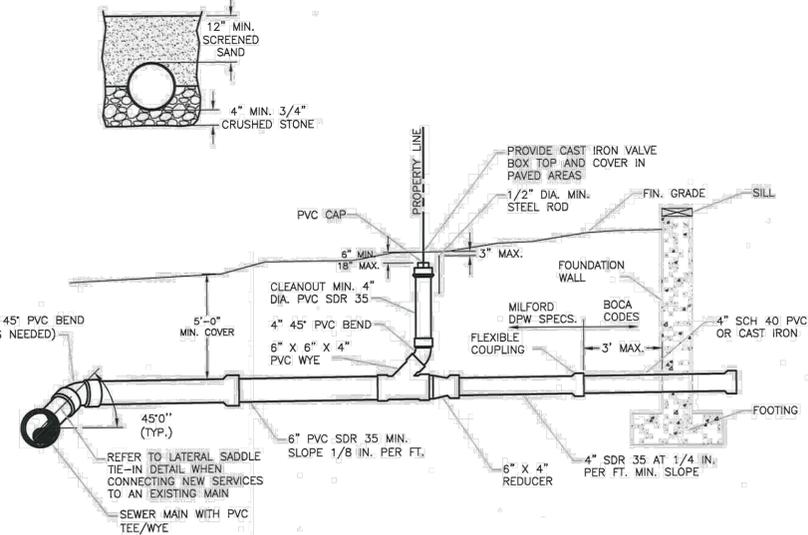
DRAINAGE DETAILS

30 MS MILFORD, LLC  
30 MILL STREET  
MAP 25 LOT 95  
MILFORD, NEW HAMPSHIRE

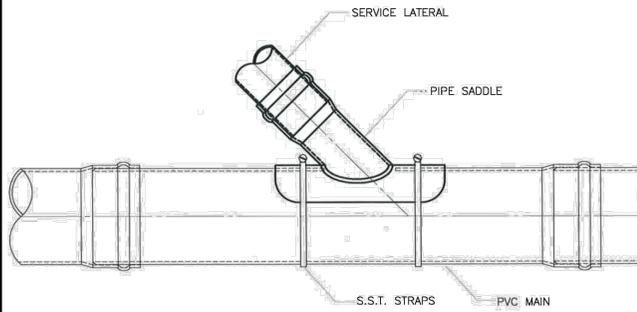
NOVEMBER 20, 2023  
SCALE: 1" = AS NOTED  
D-2  
SHEET  
FILE: 12377V00.dwg  
PROJECT NO. 12377.00  
SHEET NO. 10 OF 13



**1 TYPICAL SEWER MANHOLE**  
 [TOWN OF MILFORD NEW HAMPSHIRE - WATER AND SEWER COMMISSION]

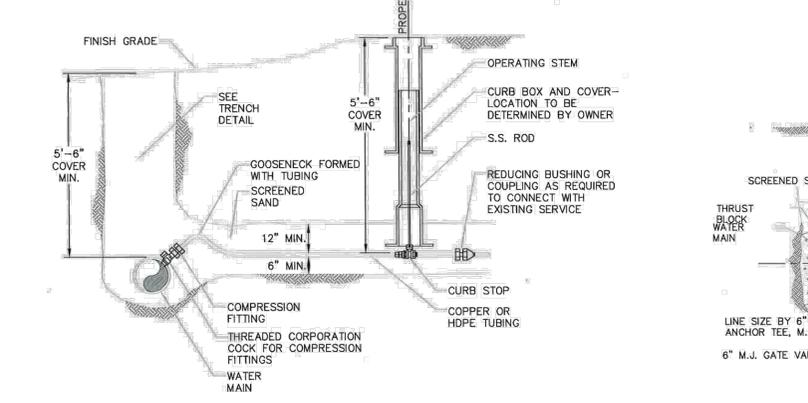


**4 SEWER SERVICE**  
 [TOWN OF MILFORD NEW HAMPSHIRE - WATER AND SEWER COMMISSION]

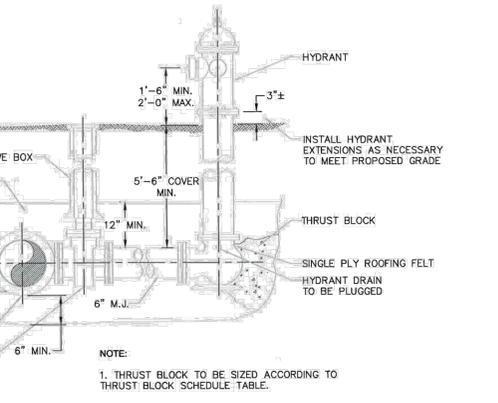


**2 LATERAL SADDLE TIE-IN**  
 [TOWN OF MILFORD NEW HAMPSHIRE - WATER AND SEWER COMMISSION]

NOTE:  
 1. A PVC SADDLE CONNECTION CAN BE USED TO TIE IN A NEW SEWER SERVICE TO AN EXISTING SEWER MAIN ONLY.  
 2. THE PLAN VIEW IS SHOWN ROTATED 45° FOR CLARITY, REFER TO THE END VIEW FOR ACTUAL LAYING POSITION.

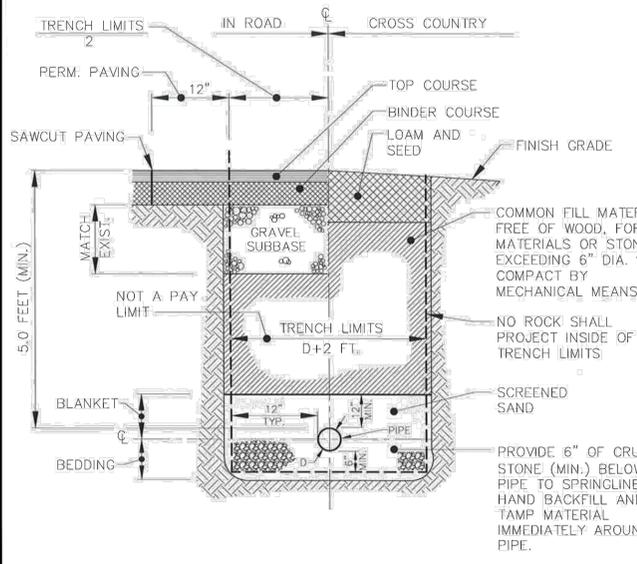


**5 TYPICAL WATER SERVICE CONNECTION**  
 [TOWN OF MILFORD NEW HAMPSHIRE - WATER AND SEWER COMMISSION]

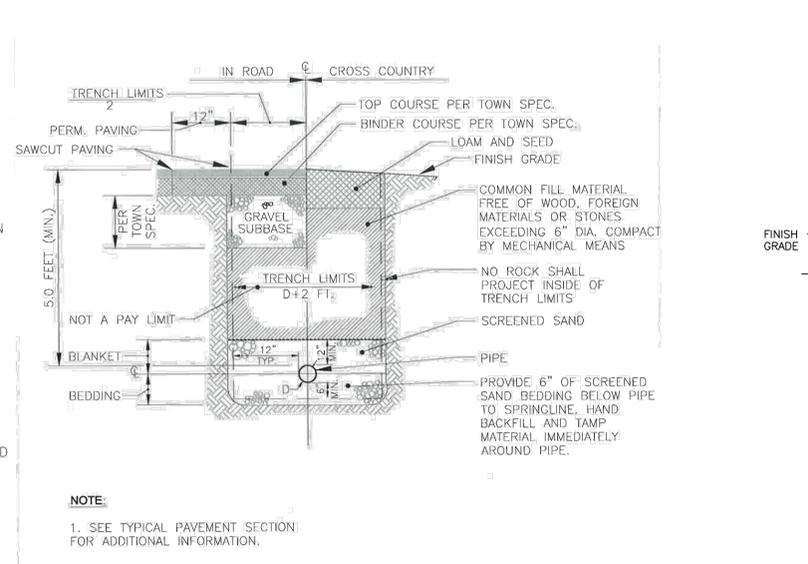


**7 FIRE HYDRANT ASSEMBLY**  
 [TOWN OF MILFORD NEW HAMPSHIRE - WATER AND SEWER COMMISSION]

NOTE:  
 1. THRUST BLOCK TO BE SIZED ACCORDING TO THRUST BLOCK SCHEDULE TABLE.

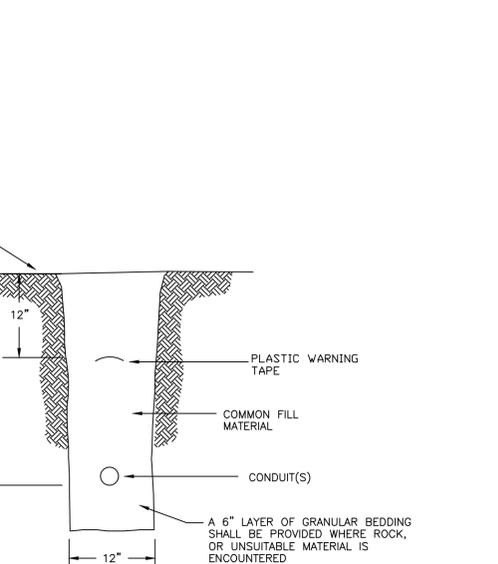


**3 GRAVITY SEWER TRENCH**  
 [TOWN OF MILFORD NEW HAMPSHIRE - WATER AND SEWER COMMISSION]



**6 WATER MAIN TRENCH**  
 [TOWN OF MILFORD NEW HAMPSHIRE - WATER AND SEWER COMMISSION]

NOTE:  
 1. SEE TYPICAL PAVEMENT SECTION FOR ADDITIONAL INFORMATION.



**8 TYPICAL CONDUIT TRENCH**  
 [TOWN OF MILFORD NEW HAMPSHIRE - WATER AND SEWER COMMISSION]

SCALE: NONE

REV.	DATE	DESCRIPTION	DR	CK
1				
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8				

UTILITY DETAILS

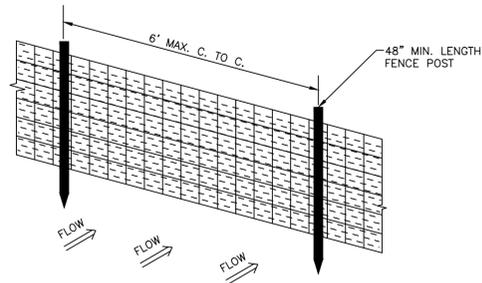
30 MS MILFORD, LLC  
 30 MILL STREET  
 MAP 25 LOT 95  
 MILFORD, NEW HAMPSHIRE

NOVEMBER 20, 2023

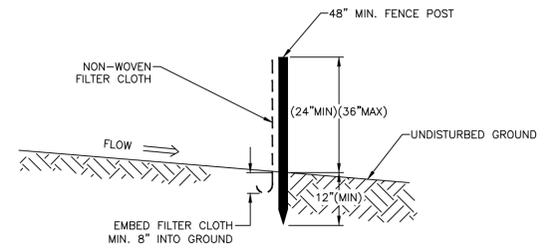
SCALE: 1" = AS NOTED

Plotted: 11/20/2023 11:46 AM By: NCG  
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PERSPECTIVE VIEW



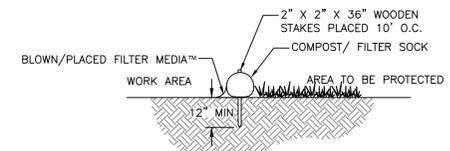
SECTION

**NOTES:**

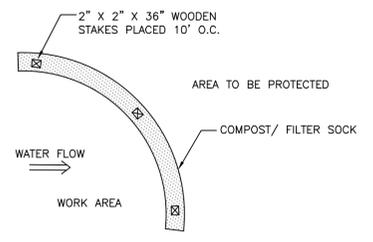
- FENCES SHALL FOLLOW THE CONTOUR OF LAND AS CLOSELY AS POSSIBLE.
- THE ENDS OF THE FENCE SHALL BE FLARED UP-SLOPE.
- SUPPORT POSTS SHALL BE SIZED AND ANCHORED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ADJOINING SECTIONS OF THE FENCE SHALL BE OVERLAPPED BY 6-INCHES, FOLDED AND STAPLED TO A SUPPORT POST.
- FENCES SHALL BE INSPECTED AND MAINTAINED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- SEDIMENT THAT ACCUMULATES AT THE FENCE SHALL BE REMOVED WITH SUFFICIENT FREQUENCY TO PREVENT THE DEPTH OF THE SEDIMENT FROM REACHING ONE-THIRD THE HEIGHT OF THE FENCE.

**TEMPORARY PERIMETER EROSION CONTROL SILT FENCE**

SCALE: NONE **1** **D-4**



SECTION



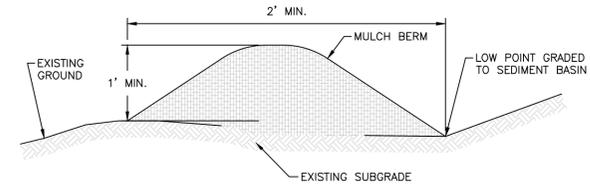
PLAN

**NOTES:**

- EROSION CONTROL MIX SHALL HAVE AN ORGANIC PORTION BETWEEN 25% AND 65%, DRY WEIGHT BASIS THAT IS:
  - FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS; AND
  - NOT COMPROMISED OF WOOD CHIPS, BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS;
- NOT CONTAIN SILTS, CLAYS, OR FINE SANDS;
- HAVE A PARTICLE SIZE BY WEIGHT OF 100% PASSING A 3-INCH SCREEN, 90% TO 100% PASSING A 1-INCH SCREEN, 70% TO 100% PASSING A 0.75-INCH SCREEN, AND 30% TO 75% PASSING A 0.255-INCH SCREEN; AND;
- HAVE A PH BETWEEN 5.0 AND 8.0.

**TEMPORARY PERIMETER EROSION CONTROL CONTINUOUS CONTAINED BERM (FILTER SOCK)**

SCALE: NONE **2** **D-4**

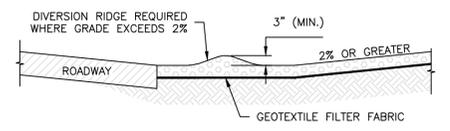


**NOTES:**

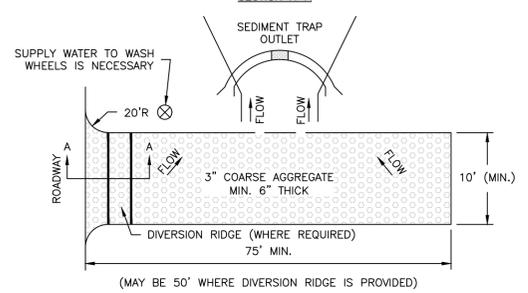
- EROSION CONTROL MIX SHALL HAVE AN ORGANIC PORTION BETWEEN 25% AND 65%, DRY WEIGHT BASIS THAT IS:
  - FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS; AND
  - NOT COMPROMISED OF WOOD CHIPS, BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS;
- NOT CONTAIN SILTS, CLAYS, OR FINE SANDS;
- HAVE A PARTICLE SIZE BY WEIGHT OF 100% PASSING A 3-INCH SCREEN, 90% TO 100% PASSING A 1-INCH SCREEN, 70% TO 100% PASSING A 0.75-INCH SCREEN, AND 30% TO 75% PASSING A 0.255-INCH SCREEN; AND;
- HAVE A PH BETWEEN 5.0 AND 8.0.

**TEMPORARY PERIMETER EROSION CONTROL EROSION CONTROL MIX BERM (ECA)**

SCALE: NONE **3** **D-4**



SECTION A-A



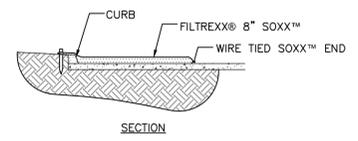
PLAN VIEW

**NOTES:**

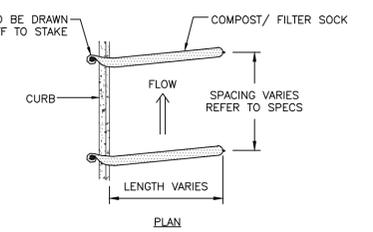
- STONE FOR STABILIZED CONSTRUCTION EXIT SHALL BE 3 INCH CRUSHED STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- THE MINIMUM LENGTH OF THE PAD SHOULD BE 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH HIGH BERM IS INSTALLED AT THE EXIT OF THE PROJECT SITE.
- THE THICKNESS OF THE STONE SHALL NOT BE LESS THAN 6 INCHES.
- THE WIDTH OF THE EXIT SHALL NOT BE LESS THAN THE FULL WIDTH OF THE EXISTING POINT OF INGRESS/EGRESS OR 10 FEET, WHICHEVER IS GREATER.
- GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
- ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARDS THE CONSTRUCTION EXIT SHALL BE PIPED BENEATH THE EXIT. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
- THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
- WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO EXIT ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

**TEMPORARY CONSTRUCTION EXIT**

SCALE: NONE **4** **D-4**



SECTION



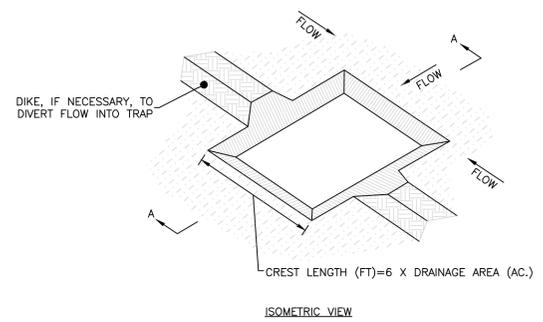
PLAN

**NOTE:**

- INLET PROTECTION SHOULD NOT BE PLACED DIRECTLY UPSLOPE FROM DRAIN INLETS

**COMPOST/ FILTER SOCK INLET PROTECTION- CURB CONTAINMENT**

SCALE: NONE **5** **D-4**



ISOMETRIC VIEW

**NOTES:**

- SEDIMENT TRAPS SHOULD BE LOCATED SO THEY CAN BE INSTALLED PRIOR TO DISTURBING THE AREA THEY ARE TO PROTECT.
- THE TRAP SHOULD BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE.
- THE MAXIMUM CONTRIBUTING AREA TO THE TRAP SHOULD BE LESS THAN 5 ACRES.
- THE MINIMUM VOLUME OF THE TRAP SHOULD BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
- THE SIDE SLOPES OF THE TRAP SHOULD BE 3:1 OR FLATTER, AND SHOULD BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.
- THE MINIMUM LENGTH-TO-WIDTH RATIO OF THE TRAP SHOULD BE 2:1 (L:W).
- FOR CONCENTRATED FLOW ENTERING THE TRAP, ENERGY DISSIPATION AT THE POINT OF INFLOW SHOULD BE PROVIDED.
- THE OUTLET PIPE SHOULD EXTEND THROUGH THE EMBANKMENT AT A MINIMUM SLOPE OF 0.5 PERCENT.
- REFER TO THE NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOL. 3: CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008 FOR COMPLETE INFORMATION.

**INSTALLATION NOTES:**

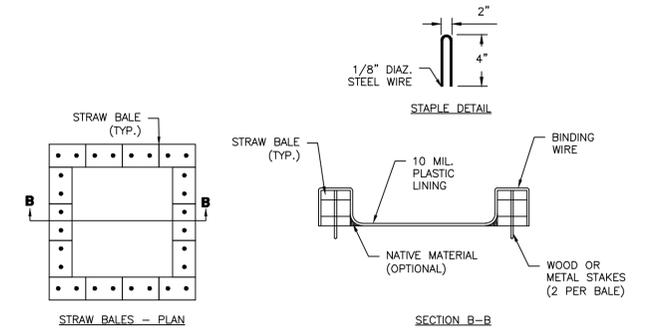
- BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- TRAP SHOULD BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON BASINS FOR STORMWATER CONTROL.
- EMBANKMENT MATERIAL SHOULD CONSIST OF DEBRIS FREE SOIL, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT PASSING THE NO. 200 SIEVE.
- EMBANKMENT SHALL BE COMPACTED TO AT MINIMUM 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SCHEDULE 40 OR GREATER SHOULD BE USED.

**MAINTENANCE NOTES:**

- INSPECT BMP'S EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATION CONDITION. MAINTENANCE SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMP'S WITHIN 24 HOURS OF A STORM CAUSING SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- REPAIR OR REPLACE BMP'S UPON FAILURE.
- ACCUMULATED SEDIMENT SHALL BE REMOVED AS NEEDED.
- THE TRAP IS TO REMAIN IN PLACE UNTIL THE DISTURBED AREA HAS BEEN STABILIZED AND GRASS COVER IS ACCEPTED BY LOCAL JURISDICTION.

**TEMPORARY EXCAVATED EARTH OUTLET SEDIMENT TRAP**

SCALE: NONE **6** **D-4**



STRAW BALES - PLAN

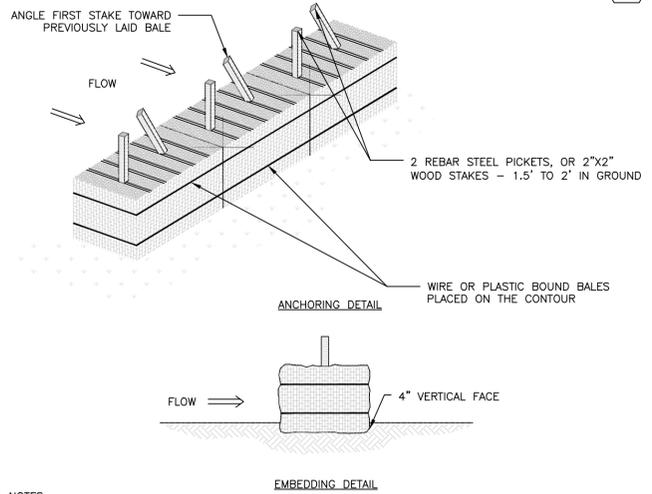
SECTION B-B

**NOTES:**

- THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
- THE CONCRETE WASHOUT AREA WILL BE CONSTRUCTED ABOVE GRADE OR BELOW GRADE AT THE OPTION OF THE CONTRACTOR. THE ACTUAL LAYOUT SHALL BE DETERMINED IN THE FIELD.
- THE CONCRETE WASHOUT AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. THE WASHOUT AREA MUST BE CLEANED, OR A NEW WASHOUT AREA MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
- THE CONCRETE WASHOUT SIGN SHALL BE PLACED WITHIN 30' OF THE WASHOUT AREA. ADDITIONAL SIGNS SHOULD BE CONSTRUCTED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- THE CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DISCHARGE FACILITIES, AND WATERCOURSES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS TO PREVENT DISTURBANCE OR TRACKING. VEHICLE TRACKING CONTROL IS REQUIRED AT CONCRETE WASHOUT ENTRANCE IF ACCESS TO AREA IS OFF PAVEMENT.
- PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL. POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
- WHEN THE CONCRETE WASHOUT AREA IS NO LONGER REQUIRED FOR WORK, THE HARDENED CONCRETE AND MATERIAL USED TO CONSTRUCT THE WASHOUT AREA SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED WASTE SITE.
- WHEN THE CONCRETE WASHOUT ARE IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE ENGINEER.

**CONCRETE WASHOUT AREA**

SCALE: NONE **7** **D-4**



ANCHORING DETAIL

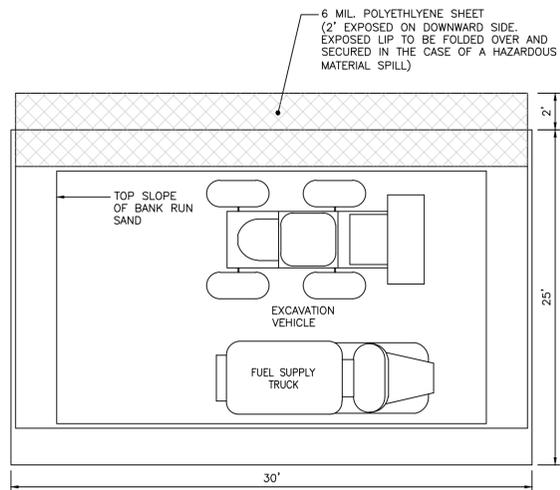
EMBEDDING DETAIL

**NOTES:**

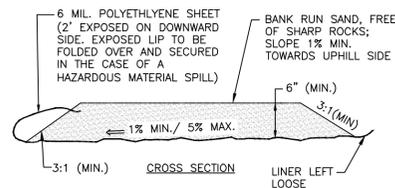
- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4\"/>

**HAY BALE BARRIER**

SCALE: NONE **8** **D-4**



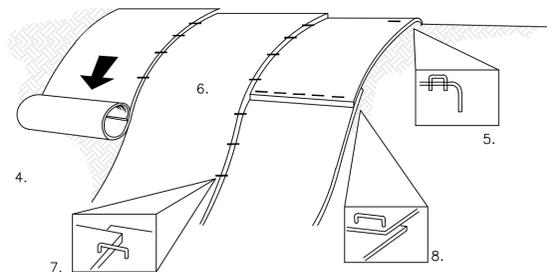
PLAN VIEW



CROSS SECTION

**TEMPORARY VEHICLE MAINTENANCE PAD**

SCALE: NONE **1**  
**D-5**



**NOTES:**

- BLANKETS SHALL BE STRAW/COCONUT FIBER EROSION CONTROL BLANKET SUCH AS NORTH AMERICAN GREEN SC150BN, OR EQUAL.
- THE USE OF ANY EROSION CONTROL BLANKET WHICH CONTAINS ANY WELDED PLASTIC OR BIODEGRADABLE PLASTIC THREAD OR NETTING IS STRICTLY PROHIBITED.
- THE EROSION CONTROL MATERIAL(S) SHALL BE ANCHORED WITH "U" SHAPED 11 GAUGE WIRE STAPLES OR WOODEN STAKES WITH A MINIMUM TOP WIDTH OF 1" AND A LENGTH OF 6".
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROLL OF STAPLES OR STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET WITH A ROW OF STAPLES/STAKES PLACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS DOWN THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES OR STAKES IN APPROPRIATE LOCATIONS. REFER TO MANUFACTURERS STAPLE GUIDE FOR CORRECT STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OF OVERLAP DEPENDING ON THE BLANKET TYPE.
- CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE OVERLAPPED AREA APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
- IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE BLANKETS.
- THE CONTRACTOR SHALL MAINTAIN THE BLANKET UNTIL ALL WORK ON THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE SHALL CONSIST OF THE REPAIR OF AREAS WHERE DAMAGED BY ANY CAUSE. ALL DAMAGED AREAS SHALL BE REPAIRED TO REESTABLISH THE CONDITIONS AND GRADE OF THE SOIL PRIOR TO APPLICATION OF THE COVERING AND SHALL BE REFERTILIZED, RESEEDED AND REMULCHED AS DIRECTED.

**SLOPE STABILIZATION TURF REINFORCEMENT MAT (AS NEEDED)**

SCALE: NONE **2**  
**D-5**

- ALL POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE RIPRAP OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITION.
- AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.

**WINTER CONSTRUCTION NOTES**

SCALE: NONE **3**  
**D-5**

- TEMPORARY PROTECTION OF DISTURBED AREAS SHALL BE IMPLEMENTED WHERE A TEMPORARY STAND OF GRASS OR SMALL GRAINS WILL NORMALLY PRODUCE SUFFICIENT COVER TO RETARD EROSION AND REDUCE SEDIMENT.
- USE OF TEMPORARY SEEDING SHALL BE IMPLEMENTED WHEN A DISTURBED AREA OR MATERIAL STOCKPILE WILL BE INACTIVE FOR A PROLONGED PERIOD OF TIME.
- ALL ESSENTIAL GRADING SUCH AS DIVERSIONS, DAMS, DITCHES, AND DRAINS NEEDED TO PREVENT GULLYING AND REDUCE SILTATION SHALL BE COMPLETED PRIOR TO SEEDING.
- PREPARE SEEDBED BY REMOVING ALL STONES, TRASH AND STUMPING DEBRIS THAT WILL INTERFERE WITH SEEDING AREA. WHERE FEASIBLE, TILL THE SOIL TO A DEPTH OF ABOUT 3 INCHES TO PREPARE SEEDBED AND MIX FERTILIZER INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATIONS SHOULD BE PERFORMED ACROSS THE SLOPE.
- A MINIMUM OF 300 POUNDS PER ACRE (7 LBS. PER 1,000 SQ.FT.) OF 10-10-10 FERTILIZER, OR ITS EQUIVALENT, SHALL BE UNIFORMLY SPREAD OVER THE AREA PRIOR TO BEING INCORPORATED INTO THE SOIL.
- THE SEED SHALL BE SPREAD UNIFORMLY OVER THE AREA. AFTER SEEDING, THE SOIL SHOULD BE FIRMED BY ROLLING OR PACKING. WHERE ROLLING OR PACKING IS NOT FEASIBLE, THE SEED SHALL BE COVERED LIGHTLY BY RAKING, DISKING, OR DRAGGING.
- HAY OR STRAW MULCH MAY BE NECESSARY TO PROMOTE SEED GERMINATION IN DRY AND/OR INFERTILE CONDITIONS.
- PLANT SELECTION AND APPLICATION RATES:

SPECIES	RATE 1 (LBS./AC.)	RATE 2 (LBS./1,000 S.F.)	REMARKS
WINTER RYE	112	2.5	FALL, 8/15 TO 9/15 PLANT 1.0 INCH DEEP
OATS	80	2.0	SPRING PRIOR TO 5/15 PLANT 1.0 INCH DEEP
ANNUAL RYEGRASS	40	1.0	QUICK, SHORT DURATION GOOD APPEARANCE EARLY SPRING & FALL PLANT 0.25 INCH DEEP
PERENNIAL RYEGRASS	30	0.7	LASTS LONGER THAN ANNUAL LATE SPRING & FALL MULCHING WILL ALLOW USE ALL SEASON PLANT 0.5 INCH DEEP

**SEEDING FOR TEMPORARY PROTECTION OF DISTURBED AREAS**

SCALE: NONE **4**  
**D-5**



REV.	DATE	DESCRIPTION	DR	CK
I				
H				
G				
F				
E				
D				
C				
B				
A				

**EROSION CONTROL NOTES AND DETAILS**

30 MS MILFORD, LLC  
30 MILL STREET  
MAP 25 LOT 95  
MILFORD, NEW HAMPSHIRE

**D-5**  
SHEET

FILE: 12377V00.dwg  
PROJECT NO. 12377.00  
SHEET NO. 13 OF 13

NOVEMBER 20, 2023

SCALE: 1" = AS NOTED