

RESEARCH COMPLETED AT THE ROCKINGHAM COUNTY REGISTRY OF DEEDS. OTHER RIGHTS, RESTRICTIONS AND

27. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE LOAMED AND SEEDED WITH GRASS OR OTHER APPROVED

POUND OF PERENNIAL GRASS SEED PER FIFTY (50) SQUARE YARDS OF IN GENERAL, ESTABLISHMENT OF

25. A SEPARATE STORMWATER MANAGEMENT REPORT IS PART OF THIS APPLICATION. THIS MANUAL HAS SPECIFIC PERIODIC INSPECTION AND MAINTENANCE SCHEDULES TO PROPERLY MAINTAIN THE FUNCTIONS OF THE

26. ANY INVASIVE SPECIES REMOVED AS PART OF THE CONSTRUCTION PROCESS SHALL BE DISPOSED OF USING BEST MANAGEMENT PRACTICES FOR INVASIVE SPECIES. FOR ADDITIONAL INFORMATION SEE ATTACHMENT #1

27. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE A STAMPED ENGINEERED DESIGN

IN THE LONG TERM INSPECTION & MAINTENANCE MANUAL PREPARED FOR THE SITE.

OF THE TOWN OF DERRY ENGINEERING AND BUILDING DEPARTMENTS.

STORMWATER PONDS. THE CITED INSPECTION AND MAINTENANCE MANUAL IS AN INTEGRAL PART OF THE SITE

OF THE RETAINING WALLS WITH ALL ASSOCIATED PROFILES AND GUARDRAIL ASSEMBLIES TO THE SATISFACTION

MULCH OR OTHER SUITABLE MATERIAL SHALL BE APPLIED TO AREAS NOT INTENDED TO BE REGULARLY

VEGETATION. A MINIMUM OF SIX (6) INCHES OF LOAM SHALL BE INSTALLED WITH NOT LESS THAN ONE (1)

TURF SHALL BE LIMITED TO THOSE AREAS THAT MAY BE REGULARLY MAINTAINED AS LAWN. GROUND COVERS.

EASEMENTS MAY EXIST WHICH A TITLE EXAMINATION OF THE SUBJECT PARCEL WOULD DETERMINE.

MAINTAINED AS LAWN.

PLAN APPROVED BY THE PLANING BOARD.

THRU 27-013 -306 05-043-001 037-002 27-026 27-025 27-037 **/27-027** 28-005 037-003 28-004 27-014 27-024 28-003 27-016 28-037 28-001 28-040 28-002 -038L 25-014-002 25-015 25-014-001 25-008 25-016 25-014 25-011 A = 27 - 028 - 001RB = 27 - 028 - 001LC = 27 - 028 - 002L25-012 D = 27 - 028 - 002R**TAX MAPS 05 / 25 / 27 / 28** SCALE: 1"= 200'±

CONSTRUCTION SEQUENCE:

A MANDATORY PRE CONSTRUCTION MEETING SHALL BE HELD WITH THE TOWN, CONTRACTOR, OWNER,

AND ALL UTILITY REPRESENTATIVES PRIOR TO CONSTRUCTION. INSTALL STABILIZED CONSTRUCTION ENTRANCE

CUT AND CLEAR TREES.

IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION AND SEDIMENT CONTROL MEASURES.

STUMP AND GRUB ANY AREAS OF TREE CLEARING.

CONSTRUCT DRAINAGE IMPROVEMENTS INCLUDING POND #1. LOAM, FERTILIZE, HYDROSEED AND MULCH DETENTION POND AND ANY DISTURBED AREAS. USE

INSTALL TEMPORARY EROSION AND SILTATION CONTROL MEASURES TO PROTECT DETENTION POND

DURING CONSTRUCTION.

POND#1 SHALL BE FULLY STABILIZED PRIOR TO DIRECTING RUN-OFF TO IT.

STRIP AND STOCKPILE LOAM. EXCAVATE AND INSTALL FOUNDATION

CUT AND FILL PARKING LOT TO SUB GRADE

INSTALL UTILITIES AND BRING TO GRADE

15. INSTALL SELECT MATERIALS WITHIN PARKING LOT (BANK RUN & PROCESSED GRAVEL)

14. ALL PAVED AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.

15. ALL CUT AND FILL SLOPES SHALL BE SEEDED/ LOAMED WITHIN 72 HOURS OF ACHIEVING FINISH

16. PAVE PARKING LOT TO BINDER AND INSTALL CURBING WHERE REQUIRED.

17. AS EARLY AS PRACTICAL, LOAM, FERTILIZE, SEED AND MULCH ALL DISTURBED AREAS, EXCEPT UNDER

THE PROPOSED PAVEMENT (MIN. 4" LOAM) STEEP SLOPES SHALL BE HYDROSEEDED. USE OF EROSION CONTROL MATS IS HIGHLY

RECOMMENDED.

19. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.5" RAINFALL. 20. WEEKLY OR AS NEEDED, MAINTAIN AND/OR REPAIR EROSION CONTROL

MEASURES: FILL. REPAIR. LOAM & SEED ANY ERODED SWALES AND/ OR EMBANKMENTS.

EARTH PILES SHALL BE STABILIZED TO PREVENT EROSION BY SEEDING AND MULCHING.

CONSTRUCTION ACCESS TO THE SITE SHALL BE FROM BIRCH STREET AND KENDALL POND ROAD

REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE THE SITE IMPROVEMENTS ARE COMPLETE AND VEGETATION HAS BEEN FULLY ESTABLISHED

24. APPROXIMATE AREA TO BE DISTURBED (AT ONE TIME) FOR SITE CONSTRUCTION AND DRAINAGE IMPROVEMENTS = 1.25 ACRES.

SHEET 3 SITE PLAN SHEET 4 LANDSCAPE PLAN SHEET 5 LIGHTING PLAN SHEET 6 GRADING & UTILITY PLAN SHEET 7 POND #1 DRAINAGE DETAILS SHEET 8 POND #1 DRAINAGE DETAILS SHEET 9 EROSION CONTROL DETAILS SHEET 10 CONSTRUCTION DETAILS SHEET 11 DETAILS SHEET 12 SIGHT DISTANCE PLAN

COVER PLAN

EXISTING CONDITIONS PLAN

PLAN REFERENCES:

SHEET INDEX:

SHEET '

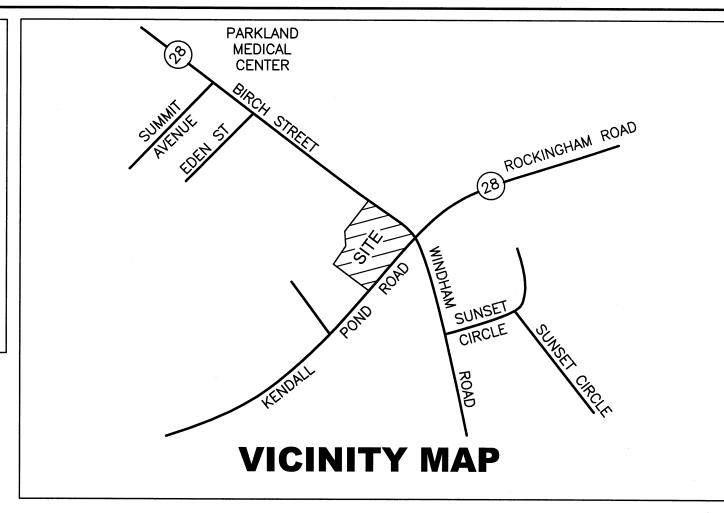
SHEET 2

1) RCRD PLAN D-28303 2) RCRD PLAN D-21711 3) RCRD PLAN C-20828 4) RCRD PLAN D-26723

5) RCRD PLAN D-32875 6) RCRD PLAN D-44324

DEED REFERENCES: 1) RCRD BK. 6455 PG. 413 2) RCRD BK. 6495 PG. 2458

3) RCRD BK. 6515 PG. 345



HEREBY CERTIFY THAT THE WORK PERFORMED IN THE PREPARATION OF THIS PLAN HAS AN ERROR OF CLOSURE OF 1:10,000 OR BETTER.

RANGEWAY LAND SURVEY & DESIGN 252 DANIEL PLUMMER ROAD GOFFSTOWN, NEW HAMPSHIRE 03045



COVER SHEET TAX MAP 28 LOT 002

#71 BIRCH STREET

DERRY, NEW HAMPSHIRE 03038 OWNER OF RECORD / PREPARED FOR

> 71 BIRCH STREET, LLC 230 HAMPSTEAD ROAD DERRY, NEW HAMPSHIRE 03038 RCRD BOOK 6455/PAGE 413

SCALE: AS NOTED SHEET 1 of 12 JUNE 23, 2023

2/16/24 COMMENTS	2/20/24	
NSERVATION COM.	10/12/23	
7/28/23 COMMENTS	9/15/23	
VISIONS	DATE	
PPROVED BY THE TO	OWN OF DERI	RY, NH
		•

BENCHMARK LLC
Consulting Engineers Land Planners 1F Commons Drive, Suite 35 Londonderry, New Hampshire 03053 Phone: (603) 437-5000

PLANNING BOARD On Date:

Certified By: **CHAIRMAN**

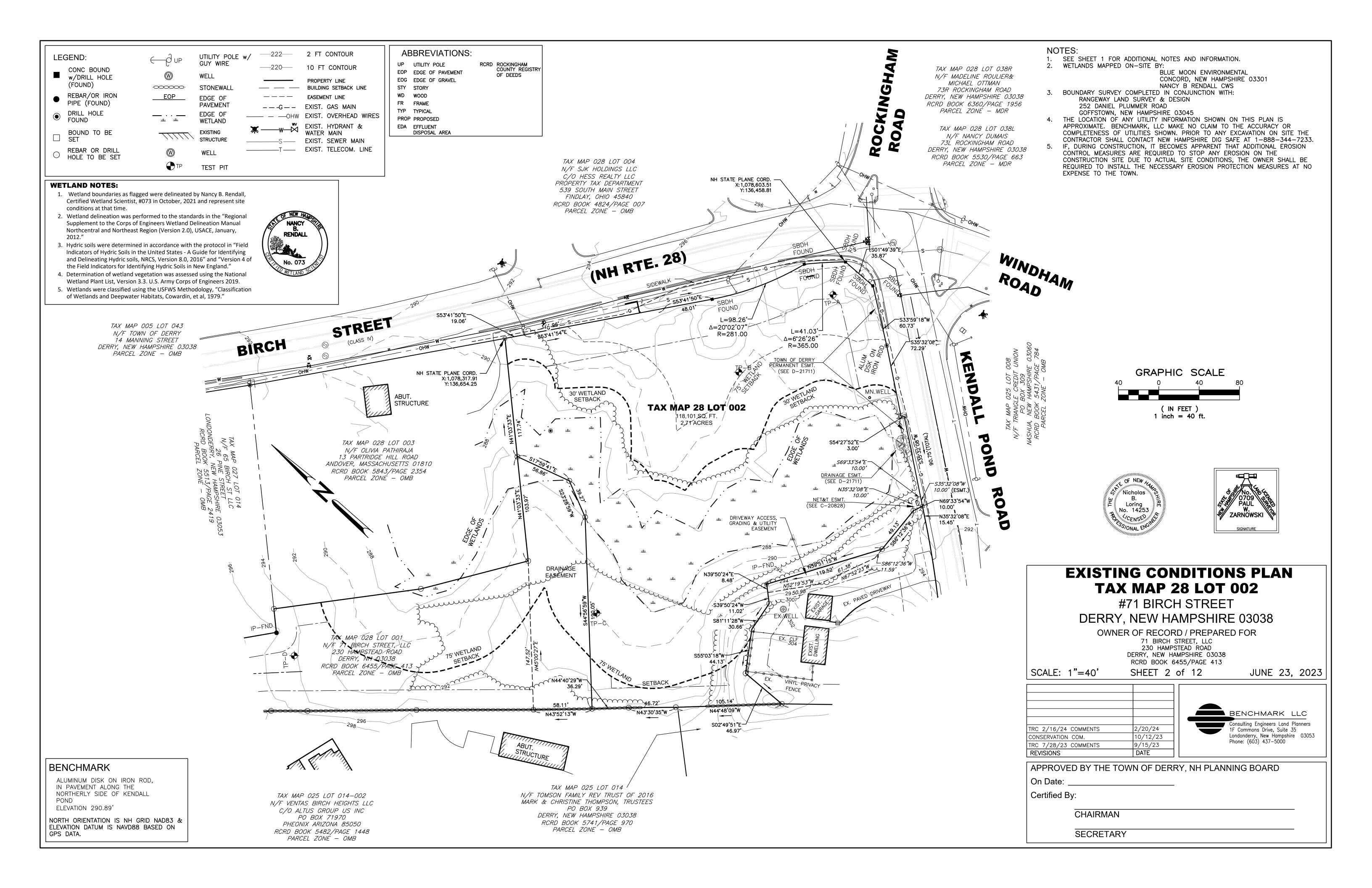
SECRETARY

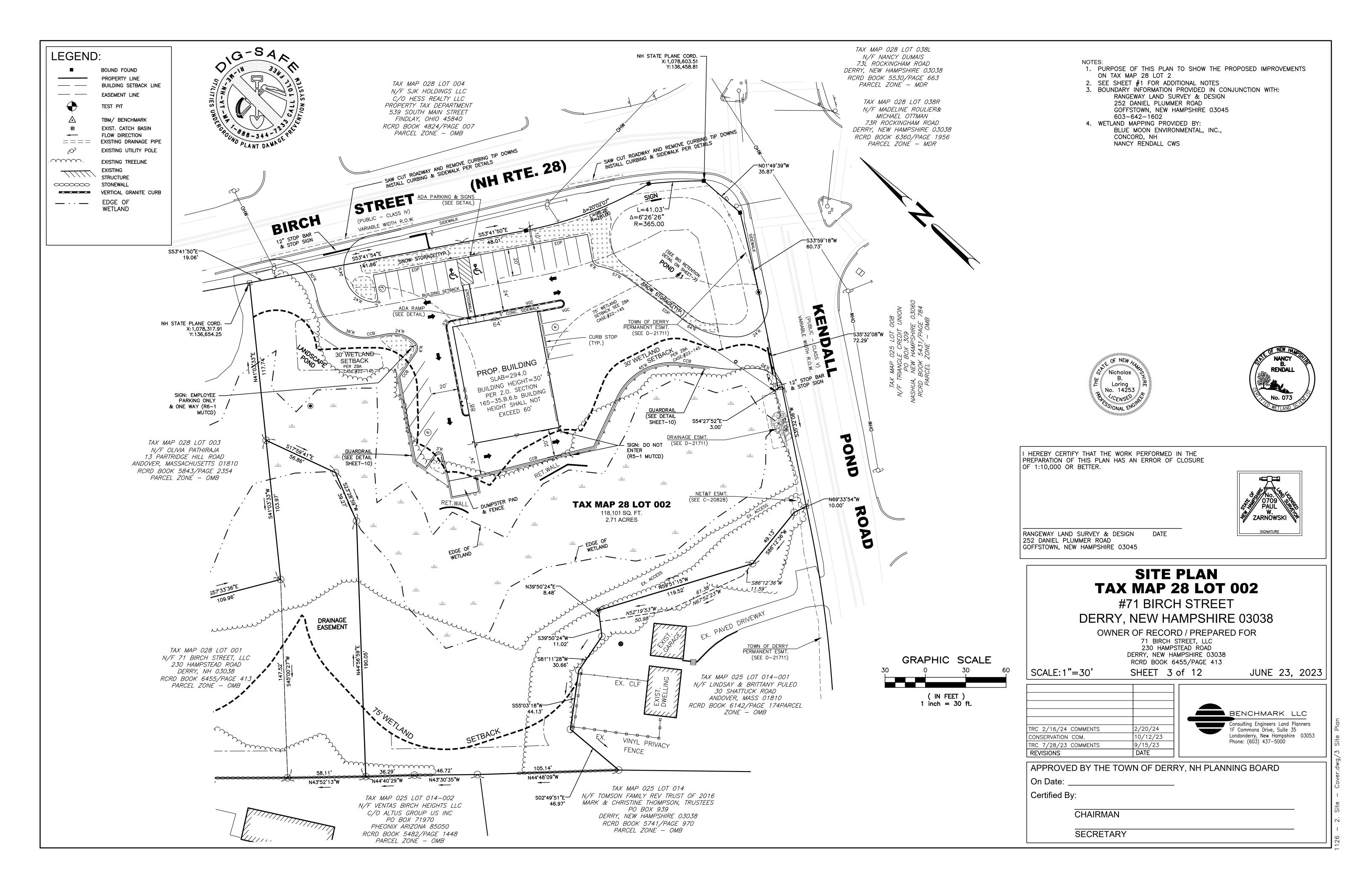
THIS PLAN HAS BEEN REVIEWED BY AND MEETS THE STANDARDS OF THESE AGENCIES: 2122124 DATE PUBLIC WORKS DIRECTOR 122/24 CODE ENFORCEMENT OFFICER fiste ! 2/23/24 DERRY FIRE DEPARTMENT DATE 2/28/24 CONSERVATION COMMISSION DATE 2/23/24 POLICE DEPARTMENT ĎATÉ

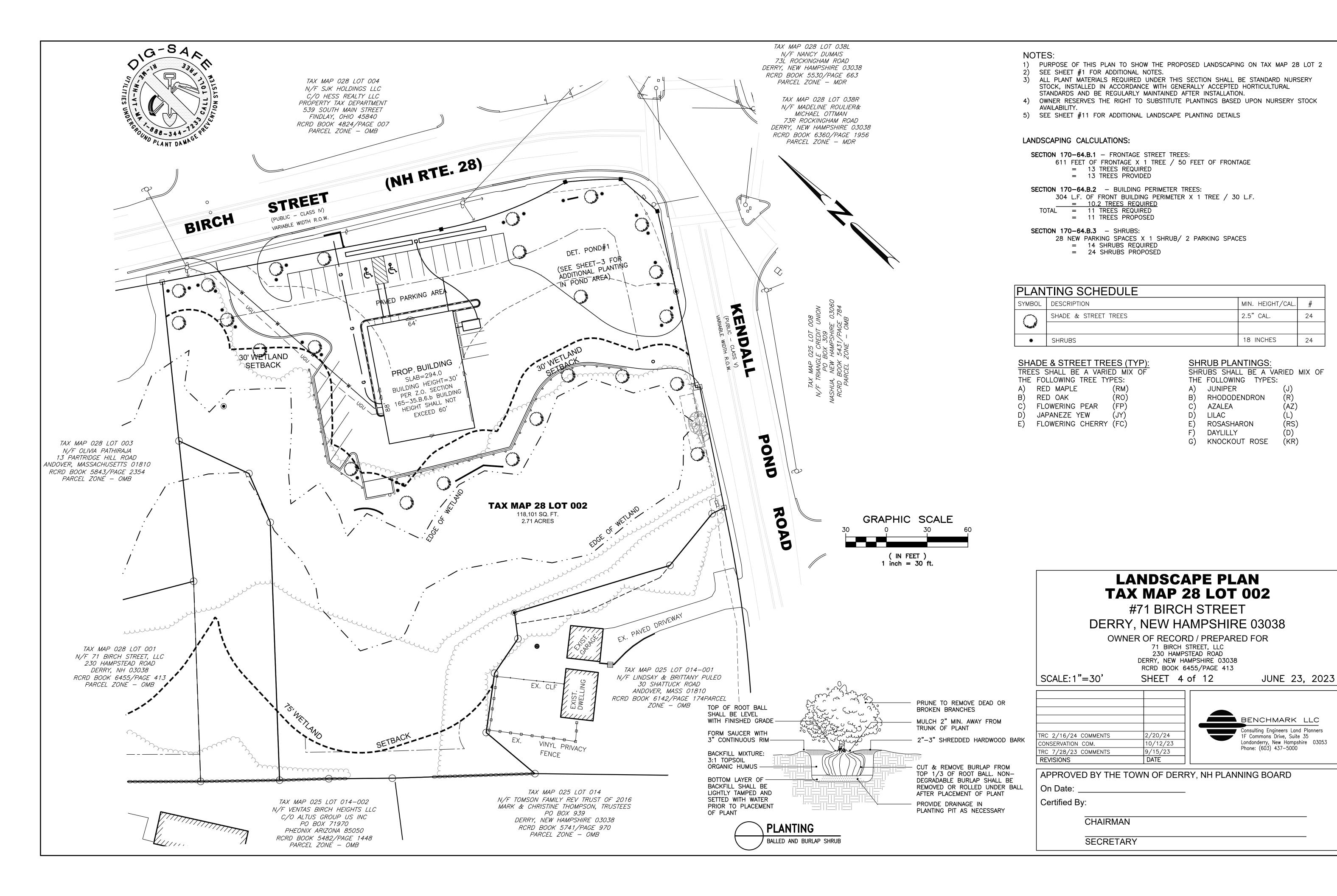
LAND OWNER OF RECORD

TAX MAP 28 LOT 002

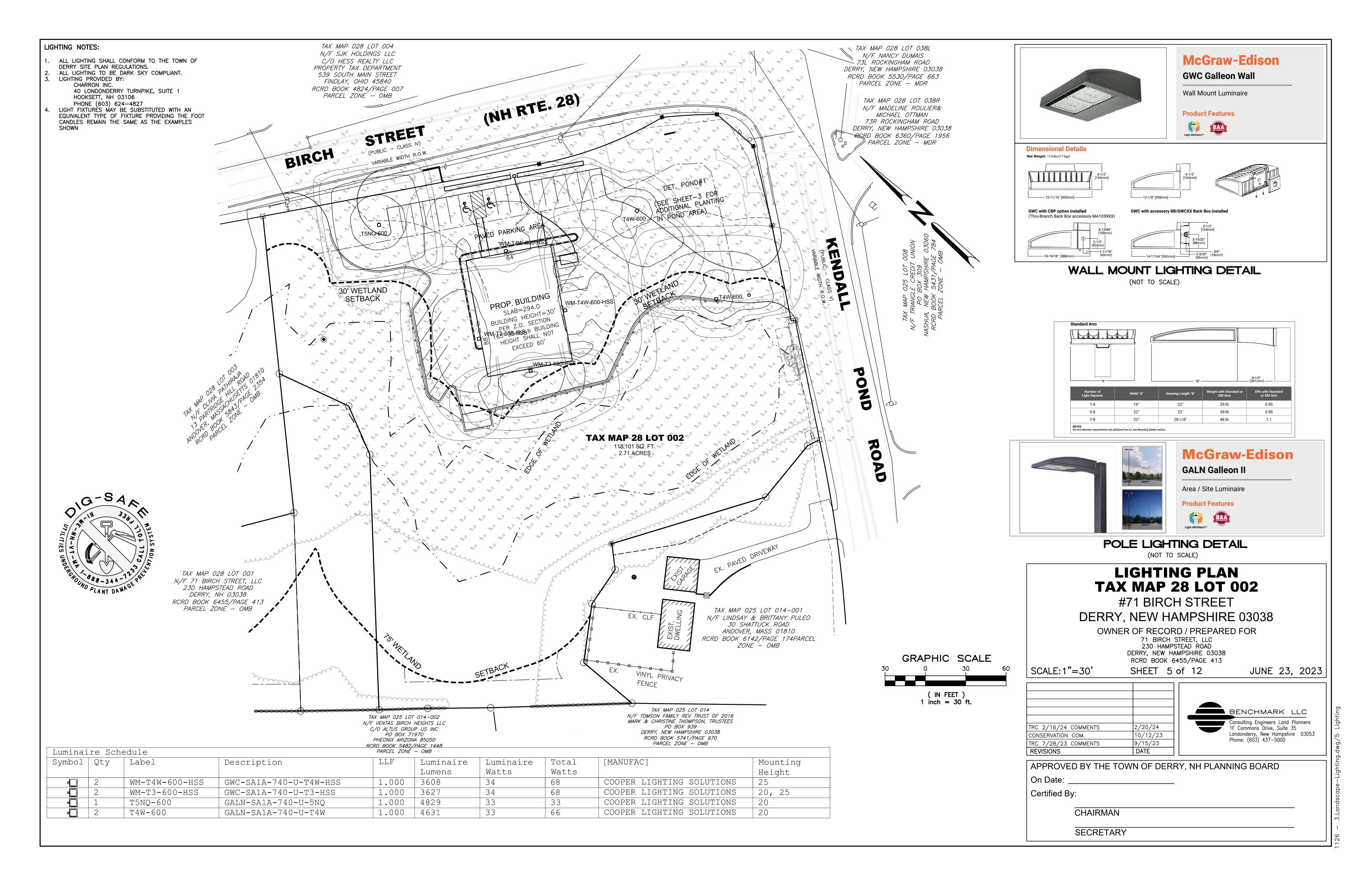
BIRCH STREET LLC

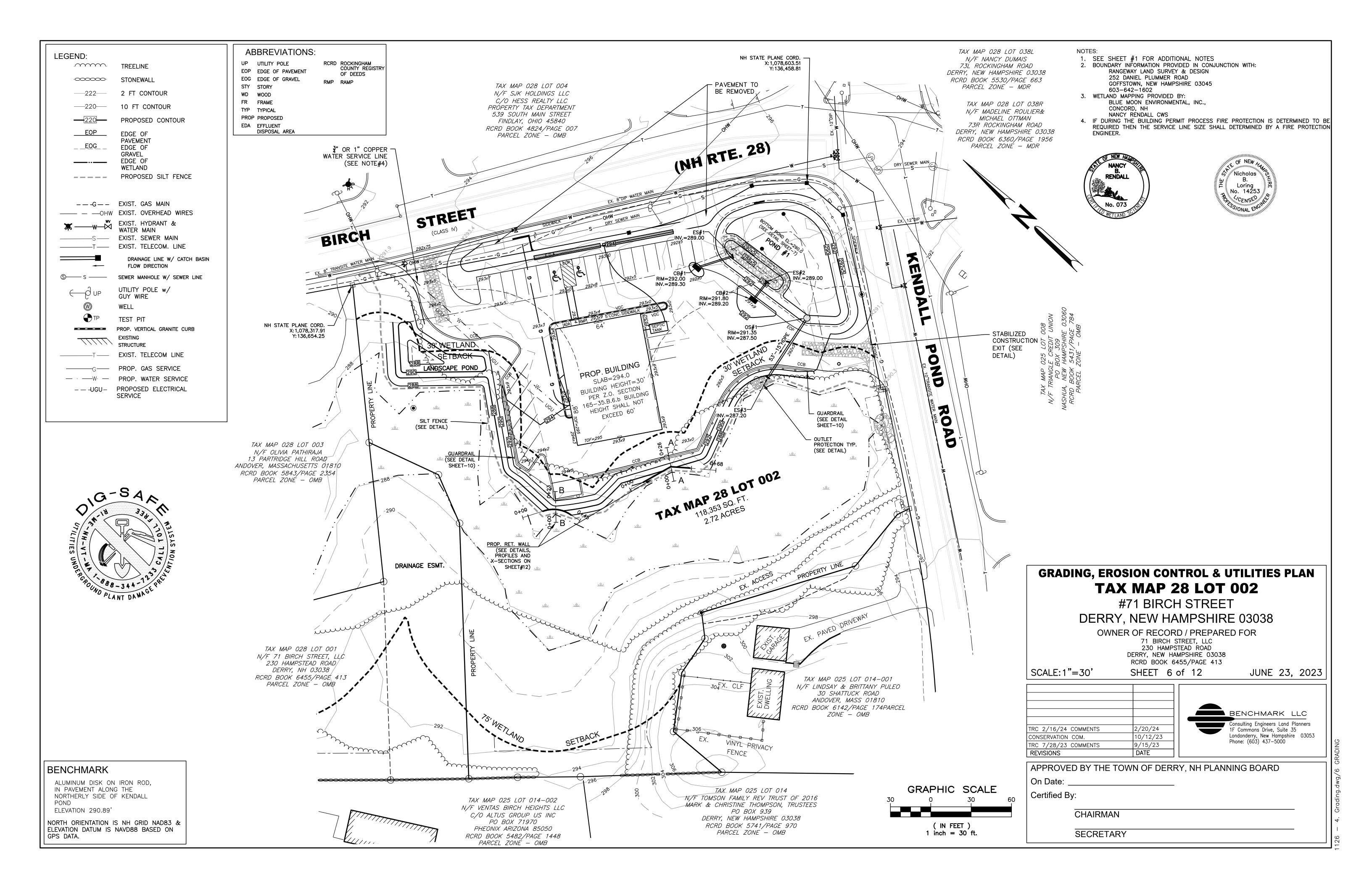


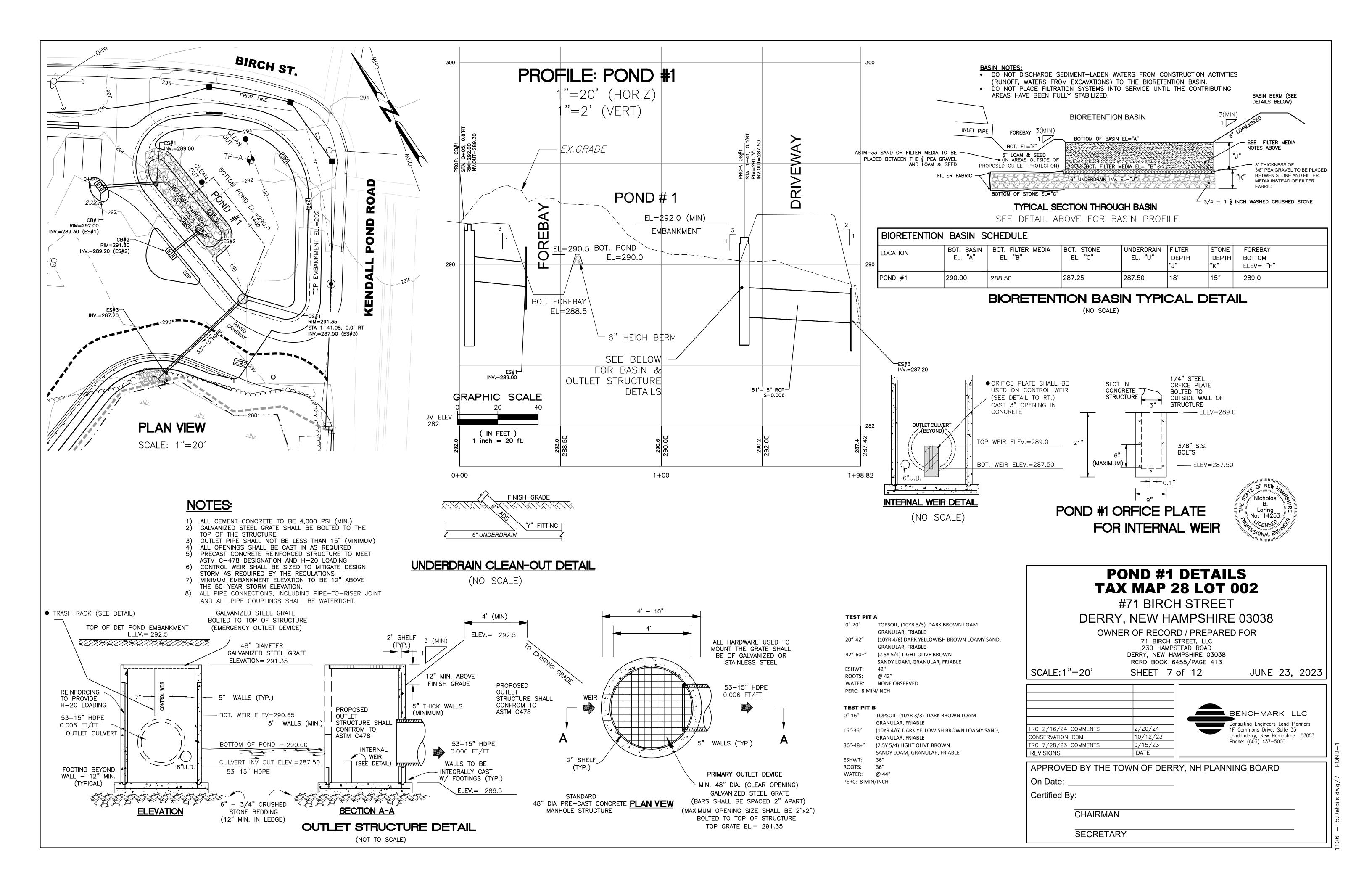


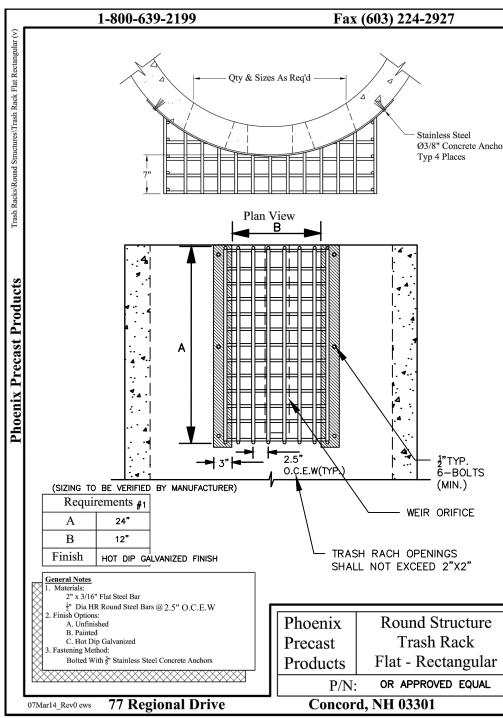


Landscape-Lighting.dwg/4 Landscape









OR APPROVED EQUAL TRASH RACK DETAILS FOR OS#1 NO SCALE

ADS Miscellaneous Products

END SECTION TRASH GUARDS Part # 1290DA 1590DA 1890DA 2490DA 3090DA 3690DA 36"

NOTE: F.E.S TRASH GUARD TO BE INSTALLED ON FES#3 (END OF DET. POND #1 OUTLET CULVERT)

F.E.S. TRASH GUARD DETAIL NO SCALE

POND #1 PLANTING SCHEDULE			
SYMBOL	DESCRIPTION	MIN. HEIGHT/CAL.	#
*	SHRUBS	3 GAL.	30

SHRUB PLANTINGS:

SHRUBS SHALL BE A VARIED MIX OF THE FOLLOWING TYPES PLANTED WITHIN THE BOTTOM AND SIDE SLOPES OF POND#1:

A) GOLDEN ALEXANDERS

PURPLE DOME ASTERS

C) JOE PIE WEED (LITTLE JOE CULTIVAR)

ADDITIONAL PLANTINGS AND OPTIONS SHALL BE SUBSTITUTED FROM THE UNH "NATIVE PLANTS FOR NEW ENGLAND RAIN GARDENS"

BIO-RETENTION SOIL MIX SPECIFICATIONS & NOTES:

FROM UNH STORMWATER CENTER BIORENTION SOIL SPECIFICATIONS SEPTEMBER 2021 PART 2

2.1 SOIL MEDIA SPECIFIED ACCORDING TO PERFORMANCE REQUIREMENTS PARTICLE SIZE DISTRIBUTION ACCORDING TO ASTM D422 (STANDARD TEST METHOD FOR PARTICLE SIZE ANALYSIS OF SOILS).

1. PARTICLE SIZE DISTRIBUTION BY SEPARATES:

A. EXCLUDES ANY MATERIAL > 4.76 mm - 0%

TABLE 1: ACCEPTABLE PARTICLE SIZE DISTRIBUTION OF FINAL BIORETENTION SOIL MIX

B. VERY COURSE SAND/GRAVEL: GRAVEL (2.0 TO 4.76 MM) 5% MAXIMUM (PERCENT BY DRY WEIGHT) C. SAND (0.42 TO 2.0 MM) 90-80% (PERCENT BY DRY WEIGHT)

D. SILT/CLAY (LESS THAN 0.075 MM) 5% MAXIMUM (PERCENT BY DRY WEIGHT)

SIEVE SIZE IN (MM) % PASSING 0.187 (4.76) 100 0.079 (2) 0.017 (0.42) 10-20 0.003 (0.075) 200 <5

2. FRAGMENT SIZE DISTRIBUTION:

A. STICKS AND ROOTS: SHOULD BE MINIMIZED AND PREFERABLY ELIMINATED OR LIMITED TO NOTHING LARGER THAN 4.76MM

B. DEBRIS AND OTHER FOREIGN MATERIALS: SHOULD BE MINIMIZED PERCENT OF ORGANIC MATTER: MINIMUM 3 PERCENT BY VOLUME AND MAXIMUM 10 PERCENT BY

VOLUME SOIL REACTION: pH OF 6 TO 7

CEC OF TOTAL SOIL: MINIMUM 10 meg/100 mL AT pH OF 7.0 SOIL INFILTRATION RATE: MINIMUM OF 20 INCHES PER HOUR (PREFERABLY IN THE RANGE OF 20-30 INCHES/HOUR PROVIDING A 3X FACTOR OF SAFETY TO ACCOUNT FOR AGING AND SURFACE CLOGGING)

BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS INDICATED ON DRAWINGS

8. BASIC PROPERTIES: MANUFACTURED SOIL SHALL NOT CONTAIN THE FOLLOWING:

A) UNACCEPTABLE MATERIALS: CONCRETE SLURRY, CONCRETE LAYERS OR CHUNKS, CEMENT, PLASTER, BUILDING DEBRIS, ASPHALT BRICKS, OILS, GASOLINE, DIESEL FUEL, PAINT THINNER, TURPENTINE, TAR, ROOFING COMPPUND, ACID, SOLID WASTE OR OTHER EXTRANEOUS MATERIAL THAT ARE HARMFUL TO PLANT GROWTH.

B) UNSUITABLE MATERIALS: STONES, ROOTS, PLANTS, SOD, CLAY LUMPS, AND POCKETS OF COURSE SAND THAT EXCEED A COMBINED MAXIMUM OF 5 PERCENT BY DRY WEIGHT OF THE MANUFACTURED

C) LARGE MATERIALS: STONES, CLODS, ROOTS, CLAY LUMPS, AND POCKETS OF COURSE SAND EXCEEDING 0.187 INCHES (4.76 MM) IN ANY DIMENSION.

2.2 ACCEPTABLE ORGANIC SOIL AMENDMENTS A. NO COMPOST SHOULD BE USED IN THE PLANTING MIX

B. SPHAGNUM PEAT: PARTIALLY DECOMPOSED SPHAGNUM PEAT MOSS, FINELY DIVIDED OR OF GRANULAR TEXTURE WITH 100 PERCET PASSING THOUGH A 1/2-INCH (13-MM) SIEVE, A PH OF 3.4 TO 4.8

C. WOOD DERIVATIVES: SHREDDED WOOD, WOOD CHIPS, GROUND BARK, OR WOOD WASTE, OF UNIFORM TEXTURE AND FREE OF STONES, STICKS, SOIL, OR TOXIC MATERIALS

COMPACTION: COMPACT EACH BLENDED LIFT OF SOIL MEDIA TO 75 PERCENT OF MAXIMUM STANDARD PROCTOR DENSITY ACCORDING TO ASTM D 698

DETENTION POND CONSTRUCTION NOTES:

1. EMBANKMENT PREPARATION. THE AREA UNDER AND WITHIN 10' OF THE EMBANKMENT SHALL BE CLEARED OF TREES, LOGS, STUMPS, ROOTS, BRUSH, BOULDERS, SOD, PEAT AND OTHER UNSUITABLE MATERIAL. ALL UNSUITABLE SOILS SHALL BE EXCAVATED AND REMOVED FROM THE EMBANKMENT AREA.

2. FILL MATERIAL FOR EMBANKMENTS SHALL MEET THE FOLLOWING GRADATION:

SIEVE SIZE: % PASSING (BY WEIGHT)

NATIVE SUITABLE EARTH MATERIAL CAN BE USED FOR FILL UNDER THE EMBANKMENT. DO NOT USE HIGHLY PERMEABLE SOILS SUCH AS SANDS AND GRAVELS. THE MATERIAL PLACED IN FILL SHALL BE FREE OF DETRIMENTAL AMOUNTS OF SOD, ROOTS, FROZEN SOIL, STONES MORE THAN 6" IN DIAMETER AND/ OR OTHER OBJECTIONABLE MATERIAL. SELECTED BACKFILL MATERIALS SHALL BE PLACED AROUND STRUCTURES AND PIPE CONDUITS AT ABOUT THE SAME RATE ON ALL SIDES TO PREVENT DAMAGE FROM UNEQUAL LOADING. THE PLACING AND SPREADING OF FILL MATERIAL SHALL BE STARTED AT THE LOWEST POINT OF THE DETENTION POND EMBANKMENT AND THE FILL SHALL BE BROUGHT UP IN HORIZONTAL LAYERS NOT MORE THAN ONE (1) FOOT THICK. THE DISTRIBUTION AND GRADATION OF F MATERIALS SHALL BE SUCH THAT NO LENSES, POCKETS, STREAKS OR LAYERS OF MATERIAL DIFFER SUBSTANTIALLY IN TEXTURE OR GRADATION FROM THE SURROUNDING MATERIAL

3. MOISTURE CONTROL. THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE ADEQUATE FOR OBTAINING THE REQUIRED COMPACTION. MATERIAL THAT IS TOO WET SHALL BE DRIED TO MEET THIS REQUIREMENT AND THE MATERIAL THAT IS TOO DRY SHALL HAVE WATER ADDED TO IT AND MIXED UNTIL THIS REQUIREMENT IS MET.

4. COMPACTION. CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER THE AREAS OF EACH LAYER OF FILL TO ENSURE THAT THE REQUIRED COMPACTION IS OBTAINED. SPECIAL EQUIPMENT SUCH AS MECHANICAL COMPACTOR AND/ OR VIBRATORY ROLLER SHALL BE USED IF NEEDED TO OBTAINED THE REQUIRED COMPACTION OF 95% OR BETTER (95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST - ASTM D 1557). FILL ADJACENT TO STRUCTURES AND PIPE CONDUITS SHALL BE COMPACTED TO A DENSITY EQUIVALENT TO THAT OF SURROUNDING FILL BY MEANS OF HAND TAMPING, POWER TAMPERS AND/ OR PLATE VIBRATORS.

5. PROTECTION. ALL EXPOSED SURFACES OF EMBANKMENT SHALL BE LOAMED AND SEEDED. USE OF EROSION CONTROL MATS IS HIGHLY RECOMMENDED ON SLOPES STEEPER THAN 3/1 (H/V).

OPERATION & MAINTENANCE

PONDS & OUTLET STRUCTURES:

1. POND EMBANKMENT. POND EMBANKMENTS SHALL BE INSPECTED ANNUALLY TO DETERMINE IF RODENT BURROWS, WET AREAS OR EROSION OF FILLS TAKING PLACE. REPAIRS SHALL BE PERFORMED WITH SUITABLE MATERIAL (SEE CONSTRUCTION NOTES) AND PROPER GRASS COVER SHALL BE MAINTAINED ON EARTH EMBANKMENTS AT ALL TIMES.

2. VEGETATION. THE VEGETATED AREA OF STRUCTURES SHALL BE PROTECTED BY DAMAGE FROM EROSION, FIRE, GRAZING AND TRAFFIC. TREES AND SHRUBS SHALL BE KEPT OFF THE EMBANKMENTS.

3. INLETS. END SECTIONS AND PIPE INLETS SHALL BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. ACCUMULATED DEBRIS AND SEDIMENT SHALL BE REMOVED. RIP RAP OUTLET PROTECTION SHALL BE CLEANED AND REPLACED IF NECESSARY. 4. OUTLETS. OUTLET STRUCTURES AND PIPES SHALL BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. THE CONDITION OF THE OUTLET STRUCTURES AND PIPES SHALL BE NOTED AND REPAIRS MADE AS NECESSARY. IF EROSION IS TAKING PLACE, THAN APPROPRIATE CORRECTIVE MEASURES SHALL BE TAKEN TO STABILIZE AND PROTECT THE OUTLET.

5. SEDIMENT. THE DETENTION PONDS SHALL BE CONTINUALLY CHECKED FOR SEDIMENT. WHEN SEDIMENT REACHES AN ELEVATION 3" BELOW THE OUTLET CONTROL DEVICE, THE SEDIMENT ADJACENT TO THE OUTLET STRUCTURE SHALL BE REMOVED AND PROPERLY DISPOSED OFF. AN ADDITIONAL NH WETLANDS BOARD PERMIT MAY BE REQUIRED TO PERFORM WORK IN WETLAND AREAS.

6. SAFETY INSPECTIONS. THE OPERATION OF THE DETENTION POND AND OUTLET STRUCTURE SHALL BE VISUALLY CHECKED FOR EROSION AND SEEPAGE AFTER EVERY MAJOR STORM.

7. SAFETY. THE DETENTION AREA SHALL INCORPORATE ALL POSSIBLE SAFETY PRECAUTIONS INCLUDING WARNING SIGNS.

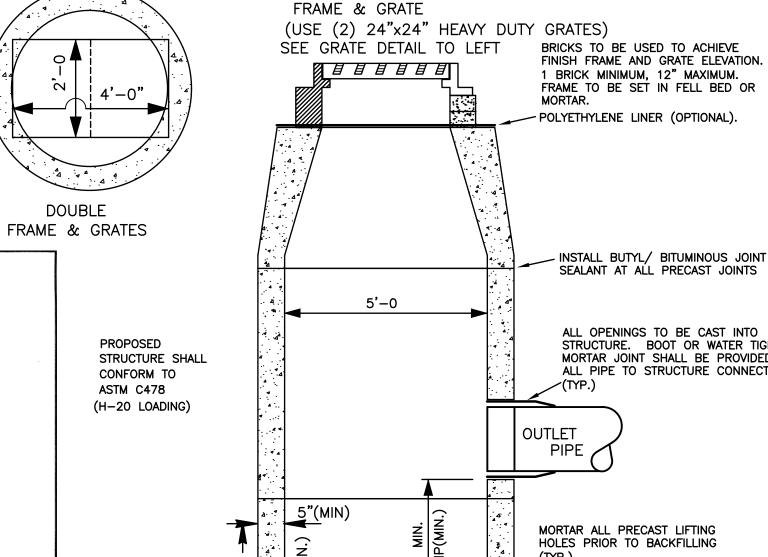
8. PROPOSED OWNER'S NAME: 71 BIRCH STREET, LLC

230 HAMPSTEAD ROAD DERRY, NEW HAMPSHIRE 03038

POLYETHYLENE LINER NOTES:

1. ALL CATCH BASINS ARE RECOMMENDED TO BE OUTFITTED WITH A POLYETHYLENE LINER DOWNSPOUT. POLYETHYLENE LINER (NHDOT ITEM 604.0007) SHALL BE FABRICATED AT THE SHOP. DOWNSPOUT SHALL BE EXTRUSION FILLET WELDED TO THE POLYETHYLENE SHEET. PLACE A CONTINUOUS BEAD OF AN APPROVED SILICONE SEALANT BETWEEN THE FRAME AND POLYETHYLENE SHEET.

PLACE CLASS AA CONCRETE TO 2" BELOW THE TOP OF GRATE ELEVATION (SUBSIDIARY TO DRAINAGE STRUCTURE) TRIM POLYETHYLENE SHEET A MAXIMUM OF 4" OUTSIDE THE FLANGE ON THE FRAME FOR THE CATCH BASIN BEFORE PLACING CONCRETE. (EXCEPT AS SHOWN WHEN USED WITH CURB). CENTER OF THE GRATE AND FRAME MAY BE SHIFTED A MAXIMUM OF 3" FROM THE CENTER OF THE DOWNSPOUT IN ANY DIRECTION.



NEENAH FOUNDRY R-3405-A CATCH BASIN GRATE DETAIL (NOT TO SCALE)

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND [METRIC] TEST BARS REQUIRED

R-3405-A TYPE "A" GRATE

FOUNDRY COMPANY THE NF - 34053016 E

1 1/2" [38mm] -

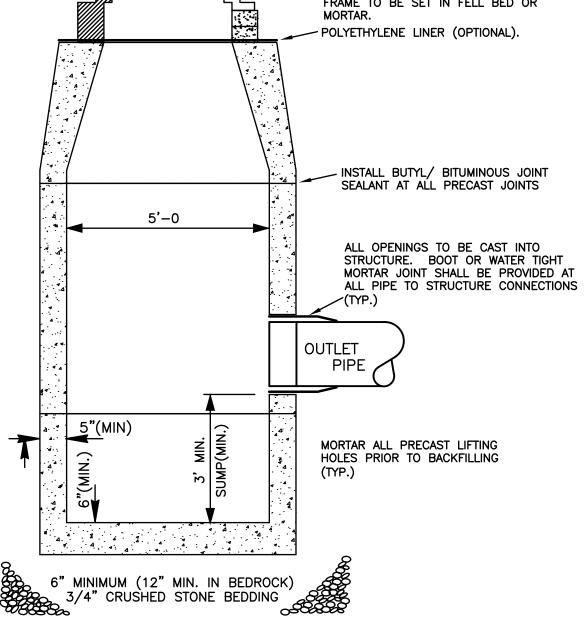
- 3/8" [10mm] R. TYP.

la de de de de de de la de

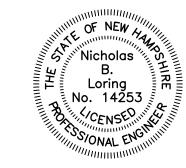
(NEENAH EQUINDRY CO)

- 2 1/4" [57mm]

1/2" [13mm] RAD. -/



DOUBLE GRATE CATCH BASIN DETAIL (NOT TO SCALE)



POND #1 DETAILS **TAX MAP 28 LOT 002**

#71 BIRCH STREET DERRY, NEW HAMPSHIRE 03038

OWNER OF RECORD / PREPARED FOR 71 BIRCH STREET, LLC 230 HAMPSTEAD ROAD

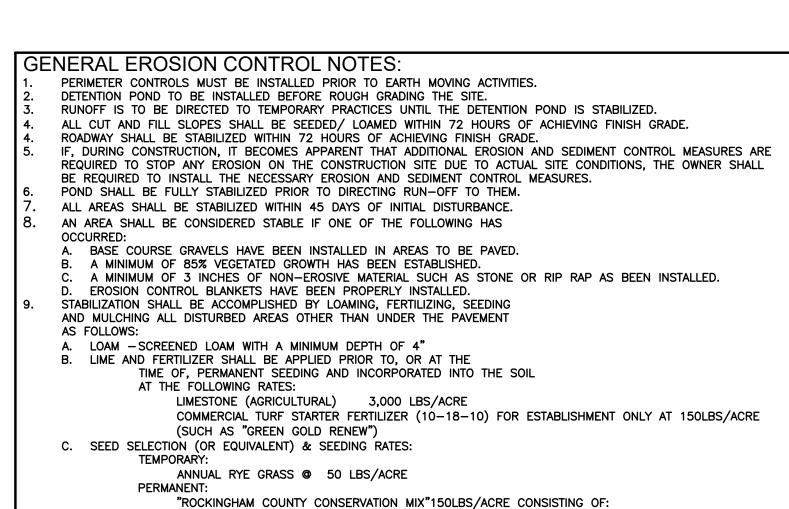
DERRY, NEW HAMPSHIRE 03038

RCRD BOOK 6455/PAGE 413 SCALE:1"=20' SHEET 8 of 12

JUNE 23, 2023

		BENCHMARK LLC
		Consulting Engineers Land Planners
C 2/16/24 COMMENTS	2/20/24	1F Commons Drive, Suite 35
NSERVATION COM.	10/12/23	Londonderry, New Hampshire 03053 Phone: (603) 437–5000
C 7/28/23 COMMENTS	9/15/23	Phone: (603) 437-5000
EVISIONS	DATE	

	-
PROVED BY THE TOWN OF DERRY, NH PLANNING BOARD	
n Date:	
ertified By:	
CHAIRMAN	
SECRETARY	



PERENNIAL RYE GRASS 12% KENTUCKY BLUE GRASS 10% WHITE CLOVER(LEGUME) 3% MULCHING SHALL BE APPLIED (FROM MAY TO SEPTEMBER ONLY) AT THE RATE OF 1-1/2 TO 2 TONS/ACRE. THE RECOMMENDED GRASS MIXTURES AND FERTILIZERS SPECIFIÉD HEREIN ARE

50' MINIMUM

 \triangle

MIN MIN KEN EXIST

ST

SEE NOTE #2

CRUSHED STONE

CONSTRUCTION ENTRANCE

PLAN VIEW

EXISTING PAVEMENT

CREEPING RED FESCUE 35%

AVAILABLE AT BLUE SEAL FEEDS, NASHUA, NH (603-883-9531)

GROUND

FILTER CLOTH

CONSTRUCTION SPECIFICATIONS

EXISTING GROUND

STONE

THAN 6 INCHES.

THE PIPE.

SURFACE BELOW THE PAD

50' MINIMUM

IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE

THE PAD SHALL SLOPE AWAY FROM THE EXISTING ROAD

PROFILE VIEW

CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICH EVER IS GREATER.

1. MINIMUM STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH CRUSHED

2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 75 FEET, EXCEPT

3. THE WIDTH OF THE CONSTRUCTION ENTRANCE SHALL EXTEND THE FULL WIDTH OF THE

THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS

6. GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE PAD AND THE EARTH

8. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARDS THE CONSTRUCTION

ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A

9. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR

DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR

OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED PROMPTLY.

TO BE CONSTRUCTED AT THE PROPOSED DRIVEWAY

THE PAD SHALL BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG

THE VOIDS IN THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFF SITE

BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR

FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP

CLEANOUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED

PUBLIC RIGHTS OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA

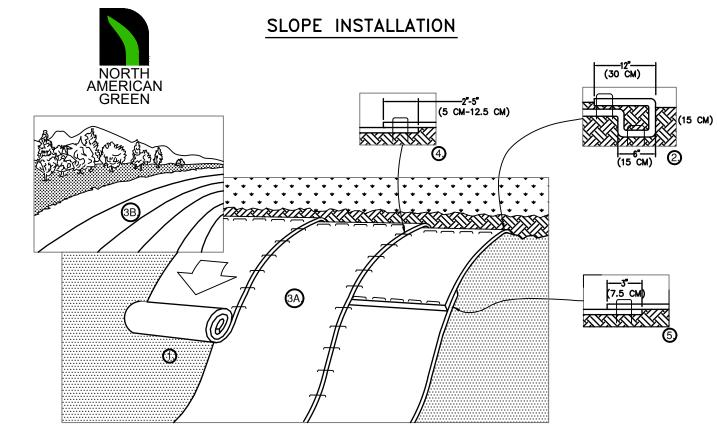
STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

10. IF NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO

THAT THE MINIMUM MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH HIGH BERM

TALL FESCUE 25%

ANNUAL RYE GRASS



 PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH.

BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN. 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING

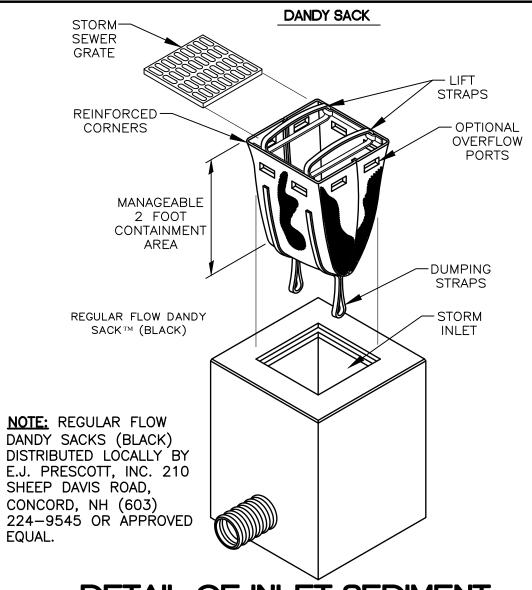
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE

*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

6. USE NORTH AMERICAN GREEN SC150BN EROSION CONTROL BLANKET (OR APPROVED EQUAL) DISTRIBUTED BY EJ PRESCOTT, INC 210 SHEEP DAVIS ROAD, CONCORD, NH PHONE: (603) 224-9545

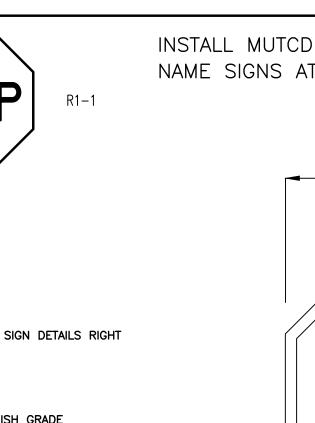
EROSION CONTROL BLANKET (NOT TO SCALE)

FLOW



DETAIL OF INLET SEDIMENT **CONTROL DEVICE**

(NOT TO SCALE)



1. HOLES SHALL BE 3/8" DIA. C-C FULL LENGTH 2. STEEL SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASTM A-6791 (GRADE 1070-1080) 3. FINISH SHALL BE PAINTED WITH 2 COATS OF APPROVED MEDIUM GREEN, BAKED ON OR AIR DRIED, PAINT OF WEATHER RESISTANT QUALITY. ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING.

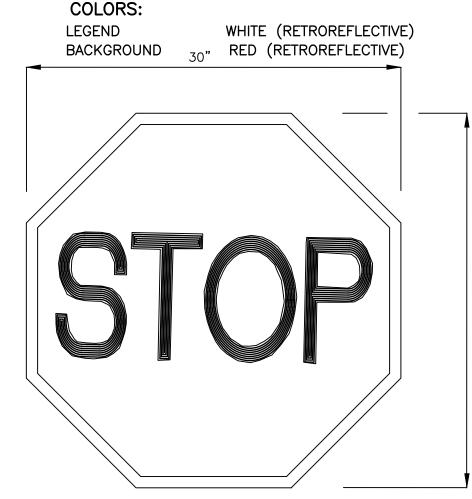
NH DOT STANDARD=

7.0' (MIN)

TYPICAL SIGN DETAIL

(NO SCALE)

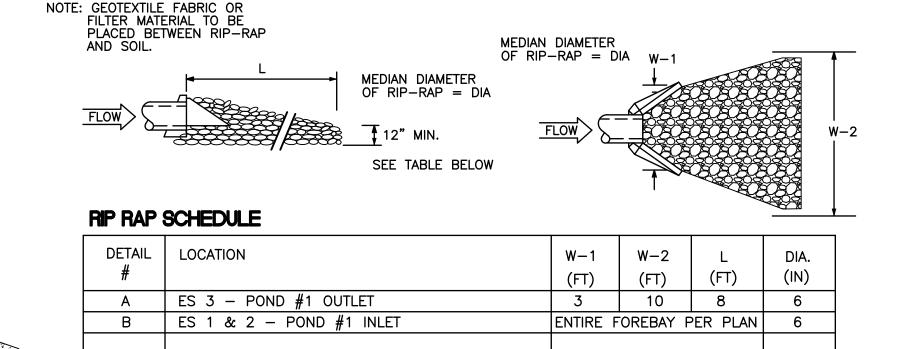
INSTALL MUTCD R1-1 STOP SIGNS AND STREET NAME SIGNS AT ALL PROPOSED INTERSECTIONS

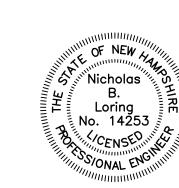


TRAFFIC SIGNS: ALL TRAFFIC SIGNS & PAVEMENT MARKINGS SHALL BE PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), LATEST EDITION.

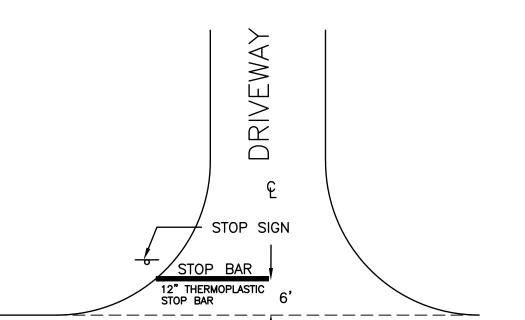
STOP SIGN DETAILS

R1 - 1



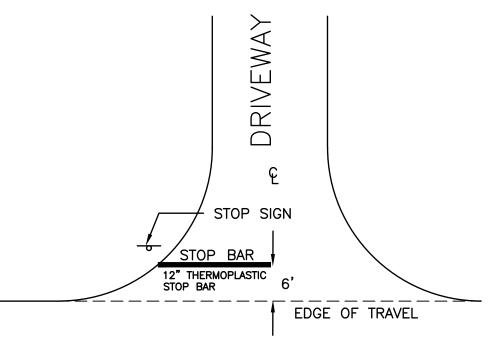


OUTLET PROTECTION DETAILS



ROADWAY

(NO SCALE)



TYPICAL STOP BAR DETAIL (NOT TO SCALE)

FLOW) STAKES (TYP.) ALL STAKES SHALL BE HARDWOOD. EXTEND FILTER FABRIC INTO TRENCH BACKFILL AND COMPACT EXCAVATED SOIL EXCAVATE 4" X 8" TRENCH UPSLOPE FROM AND ALONG THE LINE OF POSTS

FABRIC (TYP.)

SILT FENCE MAINTENANCE

2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE LIFE OF

THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.

REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. 4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

CONSTRUCTION SPECIFICATIONS

1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.

COMPACTED OVER THE EMBEDDED FABRIC.

WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES. 4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24

5. WHEN 2 SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES,

THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.

7. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO

ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE BMP (BEST MANAGEMENT PRACTICES) AS SPECIFIED IN THE "STORMWATER MANAGEMENT AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE" AS PREPARED BY THE ROCKINGHAM COUNTY

FLOW

FLOW

CONSERVATION DISTRICT.

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.

3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE

2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL

INCHES AT THE TOP, MID-SECTION AND BOTTOM.

FOLDED, AND STAPLED. 6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO

DEPOSITION OF SEDIMENT. SILT FENCE DETAIL (NO SCALE)

EROSION CONTROL DETAILS TAX MAP 28 LOT 002

#71 BIRCH STREET DERRY, NEW HAMPSHIRE 03038

OWNER OF RECORD / PREPARED FOR 71 BIRCH STREET, LLC 230 HAMPSTEAD ROAD DERRY, NEW HAMPSHIRE 03038

RCRD BOOK 6455/PAGE 413 SCALE: NONE SHEET 9 of 12

JUNE 23, 2023

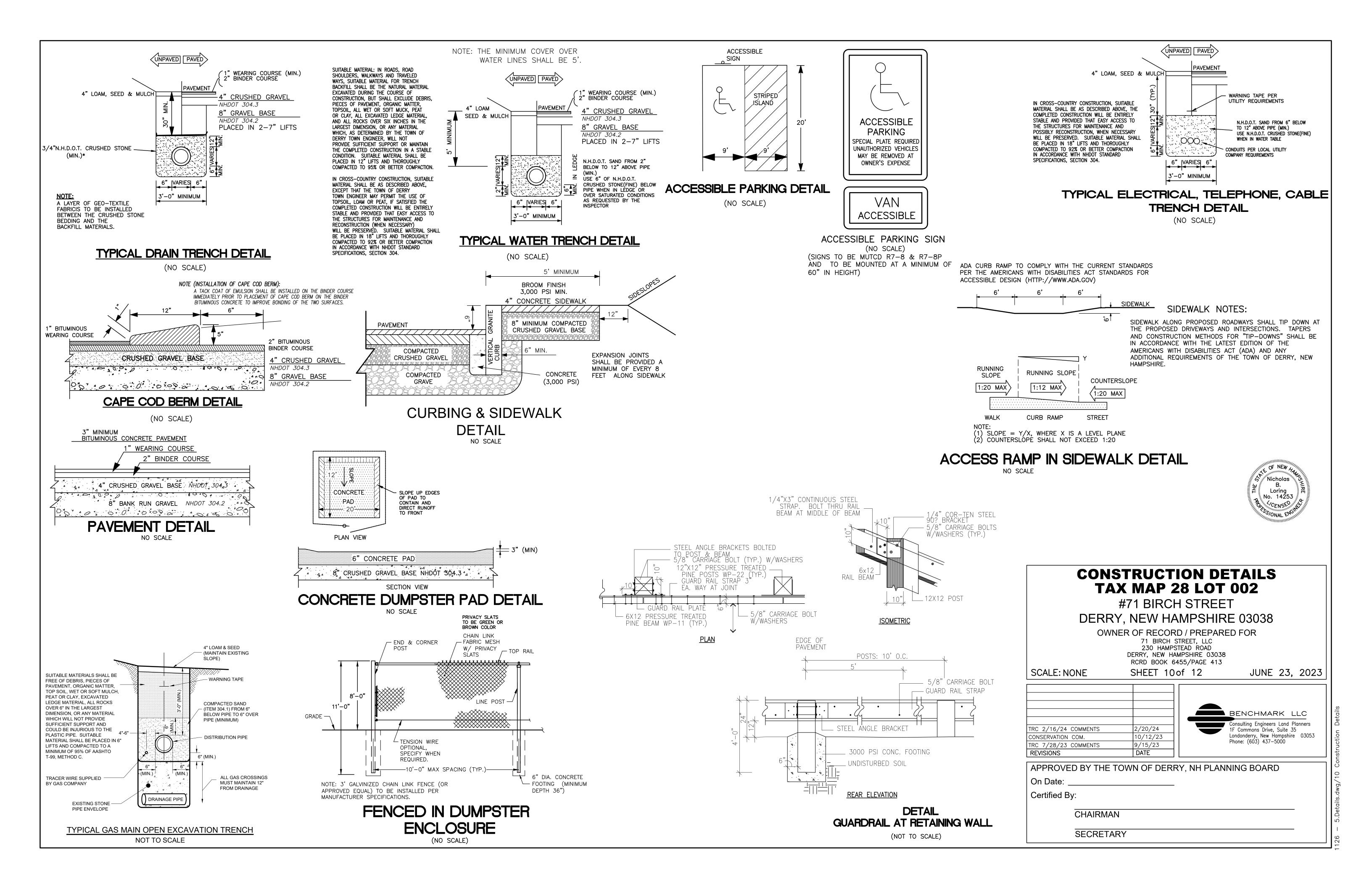
TRC 2/16/24 COMMENTS CONSERVATION COM. TRC 7/28/23 COMMENTS	2/20/24 10/12/23 9/15/23	Consulting Engineers Land Planners 1F Commons Drive, Suite 35 Londonderry, New Hampshire 030 Phone: (603) 437–5000
REVISIONS	9/15/23 DATE	

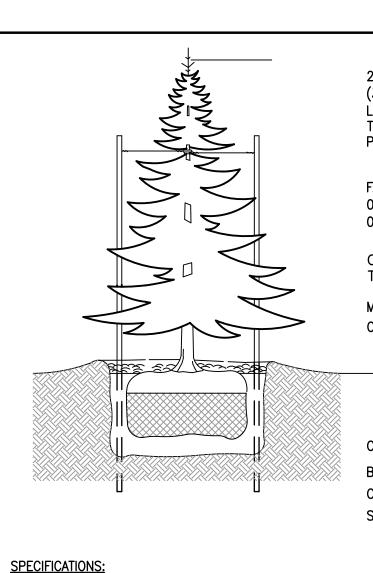
APPROVED BY THE TOWN OF DERRY, NH PLANNING BOARD	
On Date:	
Certified By:	
CHAIRMAN	
SECRETARY	

AT ITS INTERSECTION WITH BIRCH ST. & KENDALL POND RD.

(NO SCALE)

STABILIZED CONSTRUCTION EXIT





2 T-RAIL IRON STAKES, 1.5" X 1.5" X 0.2" (38 X 38 X 5MM) 8'-2.4" (2500MM) LONG. LOCATED STAKES 7.87" (200MM) AWAY FROM TREE TRUNK, WITH ONE ON SIDE OF PREVAILING WINDS

FASTEN TRUNK TO STAKES WITH TREE RING, OR 0.14" (3.6MM) (9 GA.) GALVANIZED WIRE IN 0.5" (13MM)ø PLASTIC HOSE

CROWN OF ROOT BALL SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT DID TO PREVIOUS GRADE

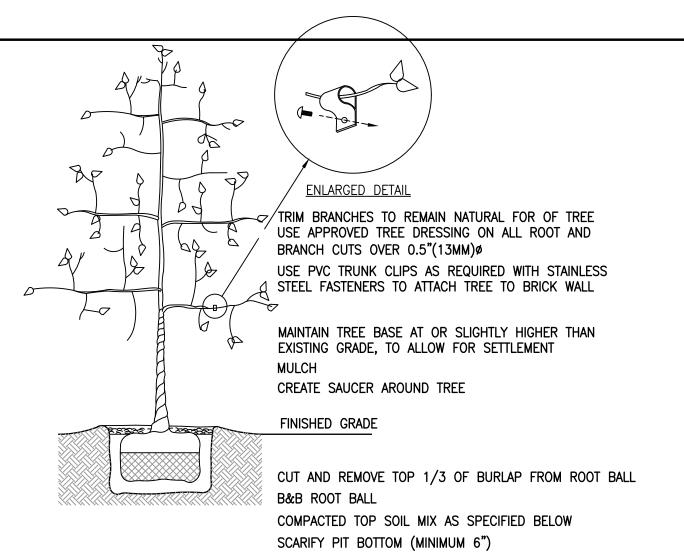
CREATE SAUCER AROUND TREE

- FINISHED GRADE

CUT AND REMOVE TOP 1/3 OF BURLAP FROM ROOT BALL B&B ROOT BALL COMPACTED TOP SOIL MIX AS SPECIFIED BELOW SCARIFY PIT BOTTOM (MINIMUM 6")

- 1. DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE.
- 2. WATER THOROUGHLY AFTER INSTALLATION.
- REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATIONS 4. PROVIDED DRAINAGE FOR PLANTING PIT IN IMPERMEABLE SOIL.
- 5. TOPSOIL MIX, SEE SPEC.

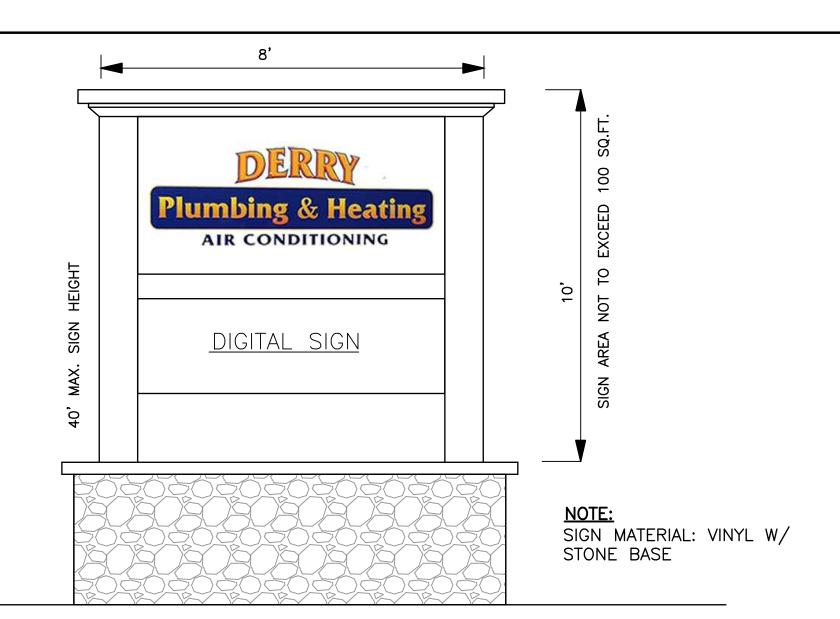




SPECIFICATIONS:

- TOPSOIL MIX, SEE SPEC..
- DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE. WATER THOROUGHLY AFTER INSTALLATION.
- REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATIONS
- PROVIDED DRAINAGE FOR PLANTING PIT IN IMPERMEABLE SOIL.

DECIDUOUS TREE DETAIL



FREE STANDING SIGN DETAIL

(NO SCALE)











LEFT SIDE ELEVATION

SCALE: 1/8" = 1'-0"



BUILDING ELEVATIONS & LANDSCAPING DETAILS **TAX MAP 28 LOT 002**

#71 BIRCH STREET DERRY, NEW HAMPSHIRE 03038

OWNER OF RECORD / PREPARED FOR
71 BIRCH STREET, LLC
230 HAMPSTEAD ROAD
DERRY, NEW HAMPSHIRE 03038
RCRD BOOK 6455/PAGE 413

SCALE:NONE

SHEET 11of 12

JUNE 23, 2023

TRC 2/16/24 COMMENTS	2/20/24	
CONSERVATION COM.	10/12/23	
TRC 7/28/23 COMMENTS	9/15/23	
REVISIONS	DATE	
		`
APPROVED BY THE TOW	N OF DERR	Y.

BENCHMARK LLC
Consulting Engineers Land Planners 1F Commons Drive, Suite 35 Londonderry, New Hampshire 03053 Phone: (603) 437-5000

, NH PLANNING BOARD

On Date:

Certified By:

CHAIRMAN

SECRETARY

