

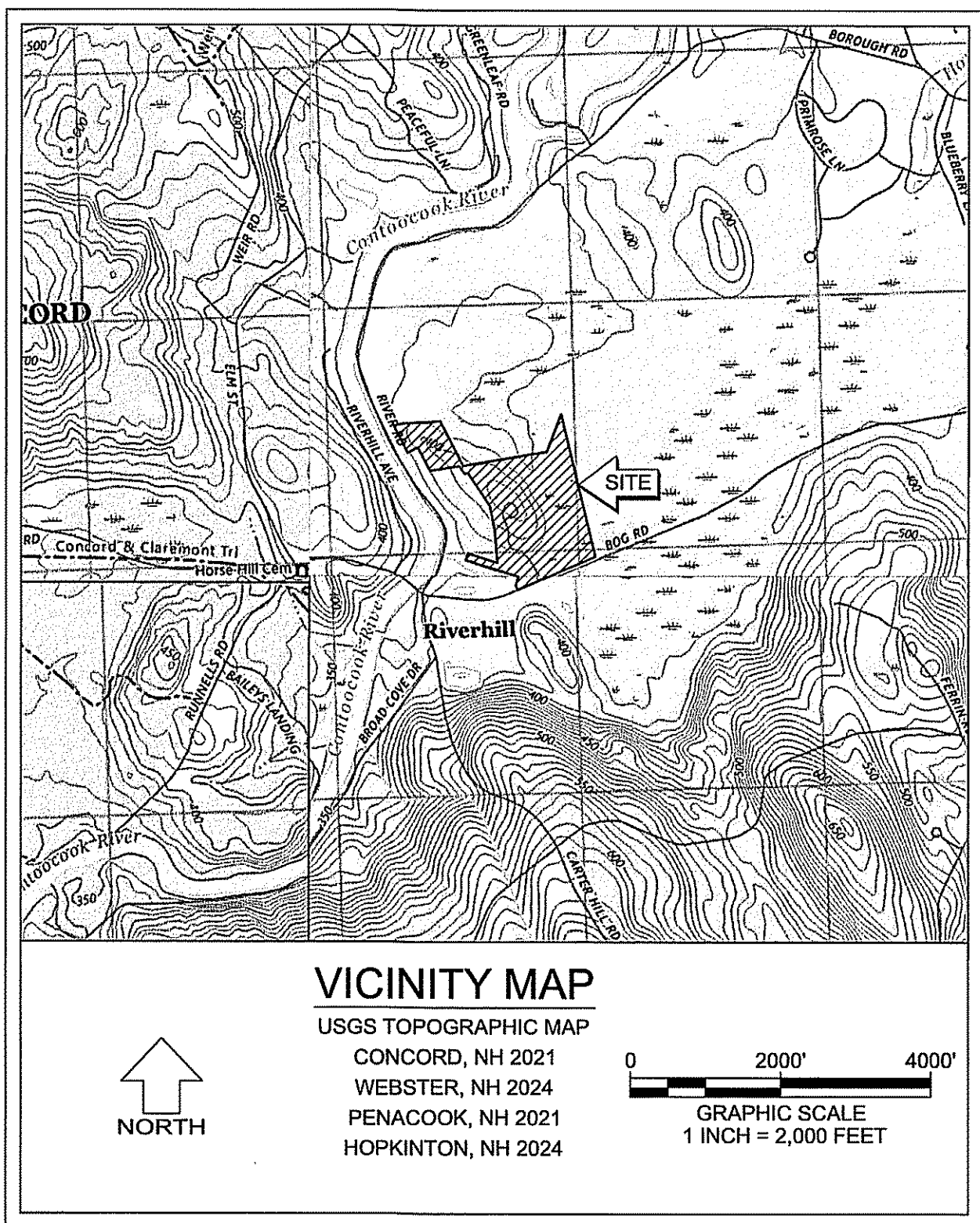
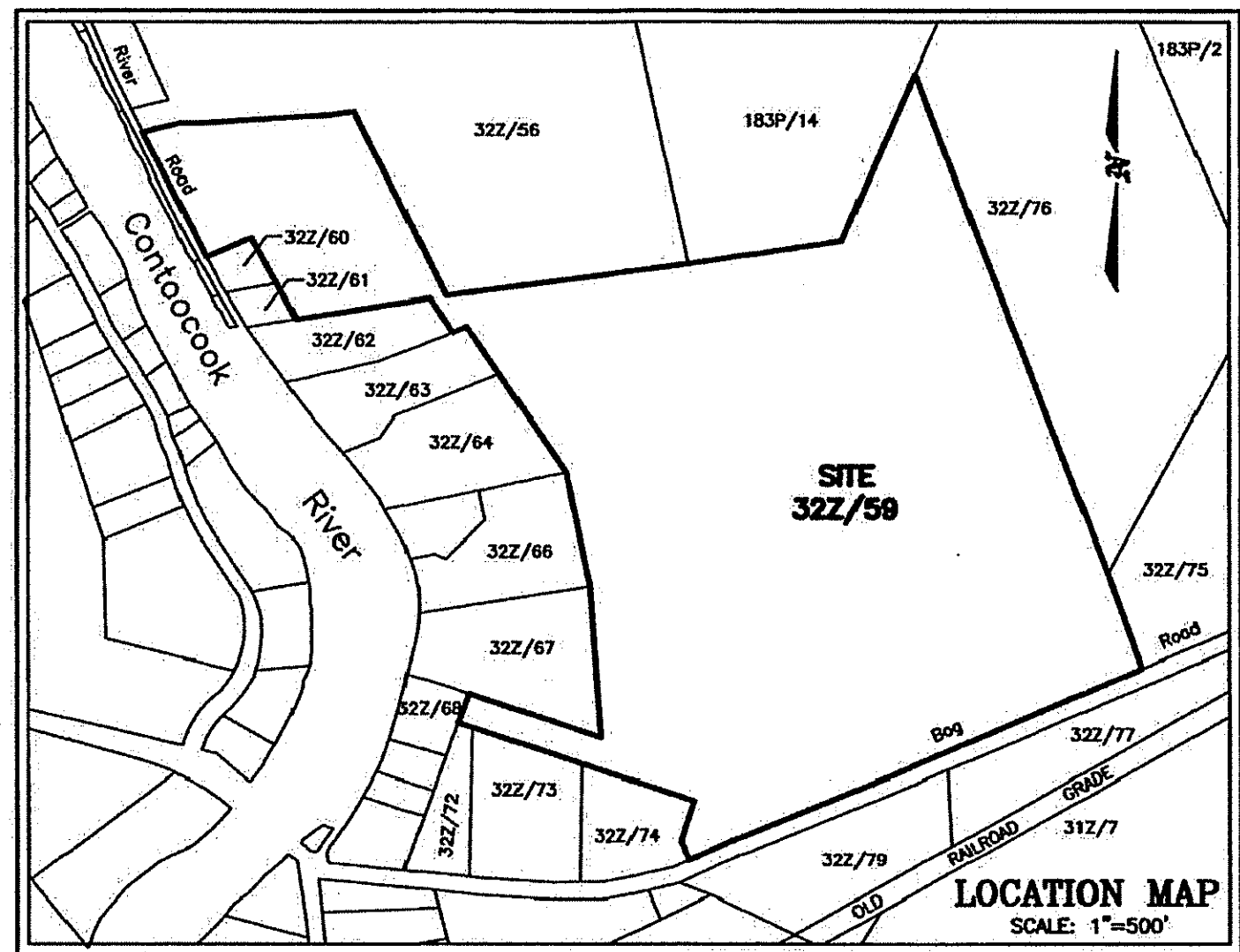
NHSCOT HEADQUARTERS

125 RIVER ROAD AND 210 BOG ROAD
CONCORD, NEW HAMPSHIRE

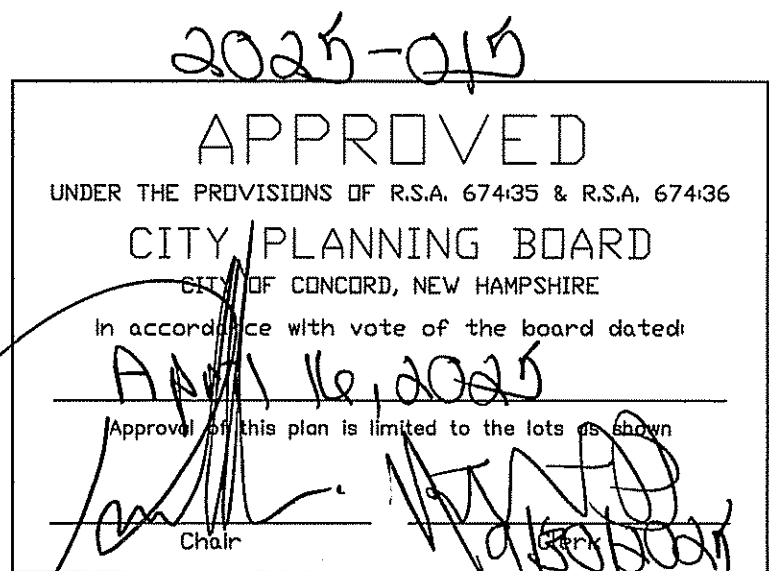
SITE ENGINEER
NOBIS GROUP - CONCORD, NH
ARCHITECT
ALBA ARCHITECTS - NORTH WOODSTOCK, NH
SURVEYOR
T.F. BERNIER - CONCORD, NH
LANDSCAPE ARCHITECT
WARRENSTREET ARCHITECTS - CONCORD, NH
SITE LIGHTING
VISIBLE LIGHT - HAMPTON, NH
OWNER
CHILD & FAMILY SERVICES REALTY CORP - MANCHESTER, NH
APPLICANT
NHSCOT - CONCORD, NH

CITY OF CONCORD APPROVALS:
THE ZONING BOARD OF ADJUSTMENT OF THE CITY OF CONCORD, GRANTED THE FOLLOWING VARIANCES ON DECEMBER 4, 2024.
ARTICLE 28-2-4(j) - TO PERMIT PERSONAL AND BUSINESS SERVICES IN THE RD DISTRICT.
ARTICLE 28-2-4(n) - TO PERMIT MULTIPLE PRINCIPAL USES ON THE SAME LOT. (PERSONAL AND BUSINESS SERVICES, AND OUTDOOR RECREATIONAL FACILITY).
THE PLANNING BOARD OF THE CITY OF CONCORD, GRANTED A MAJOR SITE PLAN APPROVAL WITH THE FOLLOWING CONDITIONAL USE PERMITS AND WAIVERS ON APRIL 16, 2025.
CONDITIONAL USE PERMITS GRANTED FOR SITE PLAN APPROVAL
ARTICLE 28-7-11(b) - CONSTRUCTION OF FEWER PARKING SPACES
ARTICLE 28-7-11(e) - ALTERNATIVE SURFACING FOR PARKING LOTS
ARTICLE 28-4-3(i) - DISTURBANCE TO A WETLAND BUFFER
ARTICLE 28-2-4(j) - PRINCIPAL USES PERMITTED BY CONDITIONAL USE PERMIT
WAIVERS GRANTED FOR SITE PLAN APPROVAL
1. SECTION 12.02(1)(a) 14. SECTION 16.02(19)
2. SECTION 12.02(1)(b) 15. SECTION 16.03(4)
3. SECTION 12.04(9) 16. SECTION 16.03(9)
4. SECTION 12.07 17. SECTION 16.03(10)
5. SECTION 15.01(8) 18. SECTION 16.03(11)
6. SECTION 15.02(8) 19. SECTION 18.17
7. SECTION 15.03(16) 20. SECTION 18.22
8. SECTION 15.03(23)(b) 21. SECTION 21.03
9. SECTION 15.03(23)(e) 22. SECTION 21.05(3)
10. SECTION 15.04(21) 23. SECTION 22.07(2)
13. SECTION 16.02(14)
• SECTION 15.04(5), SECTION 16.02(7), AND SECTION 17.04 TO NOT PROVIDE INDIVIDUAL ADDRESSES FOR ALL THE BUILDINGS WITHIN THE ENTIRE SITE
• SECTION 16.02(22) CONSTRUCTION DETAILS, TO NOT PROVIDE DETAIL D-7 DRIVE WITH SLOPED GRANITE CURB, WHO SIDEWALK TO EXCLUDE THE SLOPED CURB REQUIREMENT AS THERE CURRENTLY IS NO CURBING ALONG THE RIGHT-OF-WAY OF BOG RD.
• SECTION 18.09 SUBJECT TO THE CONDITION THAT TRAFFIC PARKING ATTENDANTS SHALL BE PRESENT ON THE SITE TO DIRECT PARKING FOR OUTDOOR EVENTS

CONDITIONS OF APPROVAL TO ARTICLE 28-2-4(j) CUP PERMIT:
a. LARGE OUTDOOR EVENTS SHALL BE LIMITED TO A MAXIMUM OF SIX PER CALENDAR YEAR.
b. LARGE OUTDOOR EVENTS SHALL NOT BEGIN UNTIL 10:00 A.M., WITH OUTDOOR MUSIC CEASING BY 8:00 P.M., AND REMAINING OUTDOOR ACTIVITIES ASSOCIATED WITH THE OUTDOOR EVENT CEASING BY 9:00 P.M., NOTING THAT SETUP PREPARATION AND CLOSING DOWN OF THE SITE BY NHSCOT STAFF MAY OCCUR PRIOR TO 10:00 A.M. AND AFTER 9:00 P.M. ON THE DAY OF THE EVENT.
c. LARGE OUTDOOR EVENTS SHALL HAVE A DURATION OF NO MORE THAN TWO BACK-TO-BACK DAYS.
d. OUTDOOR EVENTS SHALL BE LIMITED TO NO MORE THAN 600 ATTENDEES, INCLUDING ALL AGES, AND NO MORE THAN 200 VEHICLES.
e. NHSCOT SHALL POST NOTIFICATIONS ON THEIR SOCIAL MEDIA WEBSITES REGARDING THE SIX LARGE OUTDOOR EVENTS BY MARCH 1ST OF EACH CALENDAR YEAR.
CONDITIONS OF APPROVAL TO ARTICLE 28-7-11(e) CUP PERMIT:
a. ON OR BEFORE MARCH 1ST OF EACH CALENDAR YEAR, NHSCOT SHALL EMAIL THE PLANNING DIVISION THE CALENDAR OF EVENTS SCHEDULED FOR THAT CALENDAR YEAR, ALONG WITH ESTIMATED ATTENDANCE AND DESIGNATED PARKING LOTS FOR EACH EVENT, SUCH THAT SCHEDULED EVENTS UTILIZING THE ALTERNATIVE SURFACED PARKING AREAS ARE OCCURRING LESS THAN SIX MONTHS FOR THAT CALENDAR YEAR.



FEBRUARY 18, 2025
▲ REVISED APRIL 28, 2025
▲ REVISED JUNE 20, 2025
▲ REVISED SEPTEMBER 3, 2025
▲ REVISED SEPTEMBER 22, 2025



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NOBIS PROJECT NO. 100661.000

LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
SUBJECT PROPERTY LINE		DRAIN MAN-HOLE	
OTHER PROPERTY LINE		CATCH BASIN	
SETBACKS		UTILITY POLE	
EASEMENT		PAD MOUNTED TRANSFORMER	
STONE WALL		SANITARY SEWER MANHOLE	
RETAINING WALL		SANITARY SEWER CLEAN-OUT	
EDGE OF WETLAND		HYDRANT	
STREAM / RIVER		WATER VALVE	
TREE LINE		WATER SHUT OFF	
CHAIN LINK FENCE		WATER SUPPLY WELL	
STOCKADE FENCE		GAS SHUT OFF	
GUARDRAIL (STEEL)		GAS METER	
GUARDRAIL (WOOD)		SPOT GRADE	
CENTERLINE		CURB SPOT GRADE	
EDGE OF GRAVEL		SIGN POST	
EDGE OF PAVEMENT		LIGHT POLE	
SLOPED GRANITE CURB		TREE	
VERTICAL GRANITE CURB		CONCRETE	
VERTICAL CONCRETE CURB		GRAVEL	
BCC	BCC	RIP RAP	
BITUMINOUS CONCRETE CURB			
		WETLAND	
CC	CC		
CONCRETE CURB		WETLAND IMPACT	
CCB	CCB	FLOW DIRECTION	
CAPE COD BERM			
		STONE CHECK DAM	
TD	TD		
TIP DOWN		INLET PROTECTION	
100	100	SLOPE & DIRECTION	
MAJOR CONTOUR			
		2%	
98	98	PHOTO LOCATION / DIRECTION	
MINOR CONTOUR			
DRAIN LINE		MANHOLE	
RD	RD	TELECOM MANHOLE	
ROOF DRAIN			
		ELECTRIC MANHOLE	
UD	UD		
UNDER DRAIN			
		STEEP SLOPE	
FD	FD		
FOUNDATION DRAIN			
X	X		
SILT FENCE / WATTLE			
OHW	OHW		
OVERHEAD UTILITY WIRE			
UGE	UGE		
UNDERGROUND ELECTRIC			
T	T		
UNDERGROUND TELECOM			
S	S		
SANITARY SEWER LINE			
SS	SS		
SANITARY SEWER SERVICE			
FM	FM		
SANITARY SEWER FORCE MAIN			
W	W		
WATER LINE			
WS	WS		
WATER SERVICE			
G	G		
GAS LINE			
ST	ST		
STEAM LINE			
FO	FO		
FIBER OPTIC LINE			
ZONING BOUNDARY LINE			
FLOOD ZONE LINE			

GENERAL NOTES:

- THESE DRAWINGS SHOULD BE REVIEWED IN CONJUNCTION WITH THE ACCOMPANYING DESIGN REPORT TITLED "STORMWATER MANAGEMENT REPORT FOR NHSCOT HEADQUARTERS" DATED FEBRUARY 18, 2025 PREPARED BY NOBIS GROUP.
- EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "EXISTING CONDITIONS PLAN", DATED MAY, 2024, BY TF BERNIER.
- THESE DRAWINGS AND ACCOMPANYING TEXT HAVE BEEN PREPARED FOR NHSCOT, FOR REVIEW BY THE CITY OF CONCORD'S PLANNING BOARD, CODE ENFORCEMENT, GENERAL SERVICES, POLICE, AND FIRE DEPARTMENTS.
- THE CONTRACTOR SHALL OBTAIN COVERAGE UNDER EPA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FOR CONSTRUCTION ACTIVITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND IMPLEMENTING AN ENVIRONMENTAL PROTECTION AGENCY (EPA) STORM WATER POLLUTION PREVENTION PLAN PRIOR TO THE START OF CONSTRUCTION AND DURING CONSTRUCTION ON-SITE IN ACCORDANCE WITH THE EPA REGULATIONS UNDER THE CLEAN WATER ACT.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CONCORD'S CONSTRUCTION STANDARDS AND DETAILS (LATEST EDITION), AND CITY STANDARDS SHALL TAKE PRECEDENCE IN CASE OF ANY DETAILS OR PLANS IN CONFLICT.
- ALL UTILITIES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH SECTION 25.02(1) OF THE SITE PLAN REGULATIONS.
- UPON COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS TO THE ENGINEERING SERVICES DIVISION PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- THE CONTRACTOR SHALL SET UP A PRECONSTRUCTION MEETING WITH THE ENGINEERING SERVICES DIVISION TO DISCUSS CONSTRUCTION REQUIREMENTS, SITE INSPECTIONS, ASSOCIATED FEES, SCHEDULES, ETC.
- THE CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT FROM THE CODE ADMINISTRATION DIVISION FOR THE REMOVAL OF THE EXISTING BUILDING(S).
- THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE ENGINEERING SERVICES DIVISION FOR WORK WITHIN THE ROW.
- THE CONTRACTOR SHALL OBTAIN UTILITY CONNECTION PERMITS FROM THE ENGINEERING SERVICES DIVISION FOR THE PROPOSED WATER SERVICE, SEWER SERVICE, AND STORM DRAIN CONNECTION(S). INDIVIDUAL PERMITS WILL BE REQUIRED FOR EACH CONNECTION.

CONSTRUCTION SEQUENCE:

- CONSTRUCT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY EARTH MOVING OPERATIONS. INSPECT EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND WITHIN 24 HOURS OF ANY SIGNIFICANT RAINFALL EVENT (1/2" OF RAIN OR MORE), PERFORM ANY NEEDED MAINTENANCE AND STABILIZATION AS NEEDED.
- DISTURBANCES OF AREAS SHALL BE MINIMIZED. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS DURING THE GROWING SEASON. AREAS WHICH WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE SHALL BE TEMPORARILY SEEDED AND MULCHED. ALL AREAS SHALL BE STABILIZED WITH SEED MULCH AND TACKIFIER WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE AND PRIOR TO THE END OF THE GROWING SEASON.
- PERFORM DEMOLITION OF EXISTING SITE FEATURES AS SHOWN ON DEMOLITION PLAN.
- PERFORM CLEARING AND GRUBBING TO LIMITS SHOWN ON DEMOLITION PLAN.
- EXCAVATE AND GRADE, THEN INSTALL LOAM, SEED, AND EROSION CONTROL MATTING TO STABILIZE DETENTION POND AND TREATMENT SWALES.
- REMOVE AND TEMPORARILY STOCKPILE LOAM AND TOPSOIL FOR REUSE, IF NEEDED, ON SITE. SEED AND/OR MULCH STOCKPILES AND ENCIRCLE WITH SILT FENCE.
- CONDUCT ALL UNDERGROUND UTILITY STRUCTURE AND PIPING INSTALLATION, BACKFILL, AND COMPACTING.
- PLACE AND COMPACT NEW GRAVEL COURSES IN THE PARKING, LOADING, SIDEWALK, AND GRAVEL ACCESS DRIVE AREAS.
- PLACE, GRADE, AND STABILIZE DISTURBED AREAS WITH TEMPORARY SEEDING AND MULCHING.
- PLACE PAVEMENT COURSES, SIDEWALKS, AND CURBING.
- ALL CUT AND FILL SLOPES SHALL BE STABILIZED, LOAMED, SEEDED, AND MULCHED.
- COMPLETE PERMANENT SEEDING AND LANDSCAPING IN ACCORDANCE WITH THE LANDSCAPE DESIGN AND DETAILS.
- SWEEP COMPLETED PAVEMENT AND CLEAN OUT CATCH BASINS AND DRAINAGE PIPES DURING CONSTRUCTION CLOSE-OUT PROCEDURES. PROPERLY DISPOSE OF COLLECTED SEDIMENT AND DEBRIS.
- REMOVE TEMPORARY EROSION CONTROL MEASURES AND PROPERLY DISPOSE OF FOLLOWING CONSTRUCTION AND ONCE FULL GROUND COVER HAS BEEN ESTABLISHED.

WINTER CONSTRUCTION NOTES:

ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE 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 ELSEWHERE. MULCH REMAINING IN THE SPRING SHALL BE REMOVED AND REPLACED AT RATE OF 2 TONS PER ACRE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND TACKIFIER SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND.

ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

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.

EROSION CONTROL NOTES:

CATCH BASINS: CARE SHOULD BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT ENTER CATCH BASINS DURING EXCAVATION FOR PIPE TRENCHES, DITCHES AND SWALES. THE CONTRACTOR SHOULD PLACE NON-WOVEN GEOTEXTILE FABRIC FOR INLET PROTECTION OVER INLETS IN AREAS OF SOIL DISTURBANCE, WHICH ARE SUBJECT TO SEDIMENT CONTAMINATION.

PLACE INLET PROTECTION DEVICES, IN CATCH BASINS AND MAINTAIN UNTIL ALL CONSTRUCTION ACTIVITIES HAVE CEASED AND THE SURROUNDING AREAS ARE WELL VEGETATED.

SEDIMENT TRAPS AND/OR BASINS SHOULD BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL BASINS/PONDS ARE STABILIZED.

ALL SWALES AND PONDS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF INTO THEM.

SCHEDULE OF WORK
THIS WORK IS ANTICIPATED TO BEGIN IN THE FALL 2025 WITH A FINAL COMPLETION DATE IN WINTER 2026. NO WINTER EARTH DISTURBANCE IS EXPECTED FOR THIS PROJECT. SHOULD WINTER WORK BE REQUIRED, THIS PLAN AND THE ACCOMPANYING STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MODIFIED ACCORDINGLY.

ADEQUATE MEASURES SHOULD BE TAKEN TO MINIMIZE AIR BORNE DUST PARTICLES ARISING FROM SOIL DISTURBANCE AND CONSTRUCTION.

- * DISTURBANCE OF AREAS SHOULD BE MINIMIZED AND NOT EXCEED 100,000 SQUARE FEET IN AREA AT ANY ONE TIME.
- * NO DISTURBED AREA SHOULD BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS DURING THE GROWING SEASON.
- * PERMANENT EROSION CONTROL FEATURES SHOULD BE INCORPORATED INTO THE PROJECT AT THE EARLIEST PRACTICABLE TIME, AS SPECIFIED ON THE CONTRACT PLANS.
- * WITHIN 14 DAYS OF COMPLETING WORK IN AN AREA, AND PRIOR TO ANTICIPATED RAIN EVENTS, APPLY HAY/STRAW MULCH AND TACKIFIER ON ALL DISTURBED SOIL AREAS. APPLICATION RATES OF 2 TONS OF STRAW OR HAY PER ACRE SHOULD BE USED TO PREVENT EROSION UNTIL VEGETATIVE COVER CAN BE ESTABLISHED. ALTERNATIVELY, APPLY WOOD CHIPS OR GROUND BARK MULCH 2 TO 6 INCHES DEEP AT A RATE OF 10 TO 20 TONS PER ACRE.
- * WHEN EROSION IS LIKELY TO BE A PROBLEM, GRUBBING OPERATION SHOULD BE SCHEDULED AND PERFORMED SUCH THAT GRADING OPERATION AND PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER.
- * AS WORK PROGRESSES, PATCH SEEDING AND MULCHING SHOULD BE DONE AS REQUIRED ON AREAS PREVIOUSLY TREATED TO MAINTAIN OR ESTABLISH PROTECTIVE COVER.
- * REMOVE ACCUMULATED SEDIMENTS AND DEBRIS WHEN SEDIMENT CONTAINMENT DEVICES REACH 33% CAPACITY.

EROSION CONTROL IMPLEMENTATION SCHEDULE
THE FOLLOWING GENERAL SCHEDULE IDENTIFIES THE PROPOSED SOIL EROSION AND SEDIMENT CONTROL AND STORM WATER MANAGEMENT MEASURES THAT ARE TO BE IMPLEMENTED PRIOR TO AND DURING CONSTRUCTION:

- * PERFORM LIMITED GRUBBING, STRIPPING AND SITE GRADING ONLY AS NEEDED TO COMPLETE IMMEDIATE WORK GOALS.
- * BLOCK STORM WATER FLOW AS NECESSARY TO INSTALL ALL STORM WATER STRUCTURES IN THE DRY.
- * INSTALL PERMANENT STORM DRAIN SYSTEM.
- * INSTALL TEMPORARY SOIL STABILIZATION MEASURE INCLUDING SEED, MULCH, FERTILIZER, MATTING, ETC.
- * REDIRECT FLOWS INTO FINISHED STRUCTURES PRIOR TO FILL OPERATIONS.
- * PLACE HUMUS AND CONDUCT PERMANENT SEEDING AND MULCHING OF ALL DISTURBED GROUND.

TEMPORARY STABILIZATION:
EROSION CONTROL MEASURES SHALL BE IMPLEMENTED, AS WRITTEN HEREIN AND AS DEPICTED ON THE ACCOMPANYING PLAN, FROM THE COMMENCEMENT OF CONSTRUCTION ACTIVITY UNTIL FINAL STABILIZATION IS COMPLETE:

TEMPORARY GRADING: TEMPORARY GRADING DURING CONSTRUCTION SHOULD BE PERFORMED IN SUCH A MANNER TO FACILITATE MAXIMUM INFILTRATION OF STORMWATER AND MINIMIZE OR ELIMINATE STORMWATER RUNOFF FROM THE SITE.

MULCH: MULCHING WITH LOOSE HAY OR STRAW, AT A RATE OF 2 TONS PER ACRE, SHALL BE DONE IMMEDIATELY AFTER EACH AREA HAS BEEN FINAL GRADED. WHEN SEED FOR EROSION CONTROL IS SOWN PRIOR TO PLACING THE MULCH, THE MULCH SHOULD BE PLACED ON THE SEEDED AREAS WITHIN 48 HOURS AFTER SEEDING.

TACKIFIER: PLACEMENT OF SOIL TACKIFIER HAS PROVEN TO BE AN EFFECTIVE METHOD OF PREVENTING SOIL AND ADHERING MULCH IN PLACE. THE PLACEMENT OF A SOIL TACKIFIER SHOULD BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND SHOULD BE REAPPLIED AS NECESSARY TO CONTROL AIR BORN DUST AND SOIL, AND MULCH LOSS UNTIL PERMANENT VEGETATION IS ESTABLISHED.

ROAD CLEANING: THE CONTRACTOR SHALL SWEEP ROADS DAILY, OR AS NEEDED TO MAINTAIN CLEAN PAVED SURFACES AT ALL CONSTRUCTION ACCESS/EGRESS POINTS.

DUST CONTROL: THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS NEEDED TO PREVENT AIRBORNE DUST PARTICLES FROM LEAVING THE SITE. DUST CONTROL MEASURES SHALL CONSIST OF USE OF A WATER TRUCK EQUIPPED WITH A SPRAY-BAR THAT DISSIPATES THE WATER EVENLY OVER THE SURFACE.

PERMANENT STABILIZATION: GRASS, TREES, SHRUBS AND MULCHED PLANTING BEDS WILL BE CONSTRUCTED AND MAINTAINED IN LOCATIONS AS SHOWN ON THE DRAWINGS TO STABILIZE AREAS NOT WITHIN THE PARKING LOT/BUILDING FOOTPRINT. THE CONTRACTOR WILL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL FOR ONE YEAR AFTER COMPLETION.

- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED;
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ALL ROADWAYS/PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

CONSTRUCTION SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

EXCAVATION DEWATERING:
SHOULD EXCAVATION DEWATERING BE REQUIRED, THE CONTRACTOR MUST INSURE THAT ANY EXCAVATION DEWATERING DISCHARGES ARE NOT CONTAMINATED. NOTE: THE WATER IS CONSIDERED UNCONTAMINATED IF THERE IS NO GROUNDWATER CONTAMINATION WITHIN 1,000 FEET OF THE DISCHARGE.

THE CONTRACTOR MUST TREAT ANY UNCONTAMINATED EXCAVATION DEWATERING AS NECESSARY TO REMOVE SUSPENDED SOLIDS AND TURBIDITY DURING CONSTRUCTION. THE DISCHARGES MUST BE SAMPLED AT A LOCATION PRIOR TO MIXING WITH STORM WATER OR STREAM FLOW AT LEAST ONCE PER WEEK DURING WEEKS WHEN DISCHARGES OCCUR. THE SAMPLES MUST BE ANALYZED FOR TOTAL SUSPENDED SOLIDS (TSS) AND MUST MEET MONTHLY AVERAGE AND MAXIMUM DAILY TSS LIMITATIONS OF 50 MILLIGRAMS PER LITER (MGL), RESPECTIVELY.

STORMWATER POLLUTION PREVENTION PLAN:
THE PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE USEPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION PERMIT, WHICH INCLUDES A WRITTEN STORM WATER POLLUTION PREVENTION (SWPPP) PLAN FOR CONSTRUCTION. THE SWPPP PLAN SHALL OUTLINE DETAILED SPECIFICATIONS FOR IMPLEMENTATION, INSPECTION, AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR COMPLIANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN. SHALL BE RESPONSIBLE FOR AMENDING THE SWPPP ACCORDINGLY, AND SHALL BE RESPONSIBLE FOR ANY PENALTIES RESULTING FROM LACK OF COMPLIANCE.

SPECIFICATIONS FOR TEMPORARY AND PERMANENT SEEDING:

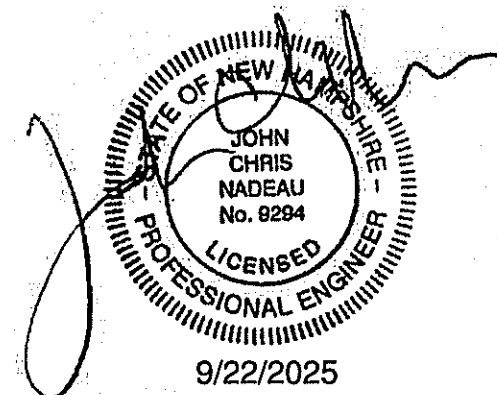
A NATIVE SEED MIXTURE SHOULD BE APPLIED TO ALL AREAS AFFECTED BY CONSTRUCTION. THE SEE MIXTURE SHOULD NOT CONTAIN INVASIVE SPECIES SUCH AS BIRD'S-FOOT TREFOIL, CROWN VETCH, ALSIKE CLOVER, OR FLATPEA.

MODIFIED NEW ENGLAND WETLAND PLANTS, INC CONSERVATION/WILDLIFE MIX			
BOTANICAL NAME	COMMON NAME	INDICATOR	% BY WEIGHT
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	FACW	32
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU	28
ANDROPOGON GERARDII	BIG BLUESTEM	FAC	25
DESMONDIUM CANADENSE	SHOWY TICK TREFOIL	FAC	5
ASCLEPIAS SYRIACA	COMMON MILKWEED	FACU	5
EUPATORIUM PERFOLIATUM	BONASET	FACW	2
ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	FACW	2
SOLIDAGO JUNCEA	EARLY GOLDENROD		1



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ISSUED FOR
CONSTRUCTION

NHSCOT HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 322 / LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE, SUITE 4
CONCORD, NH 03301

NO.	DATE	DESCRIPTION
1	09/03/2025	CITY OF CONCORD AND AOT COMMENTS
2	06/20/2025	CITY OF CONCORD AND AOT COMMENTS
3	04/28/2025	NHFG COMMENTS

REVISIONS

SCALE:
AS NOTED

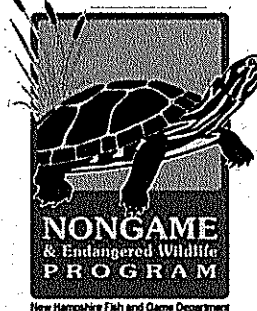
DATE:	FEBRUARY 18, 2025
NOBIS PROJECT NO.	100661.000
DRAWN BY:	KLR & MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-005-NOTES & LEGEND.dwg
SHEET TITLE	

GENERAL
NOTES AND
LEGEND

SHEET
G-1

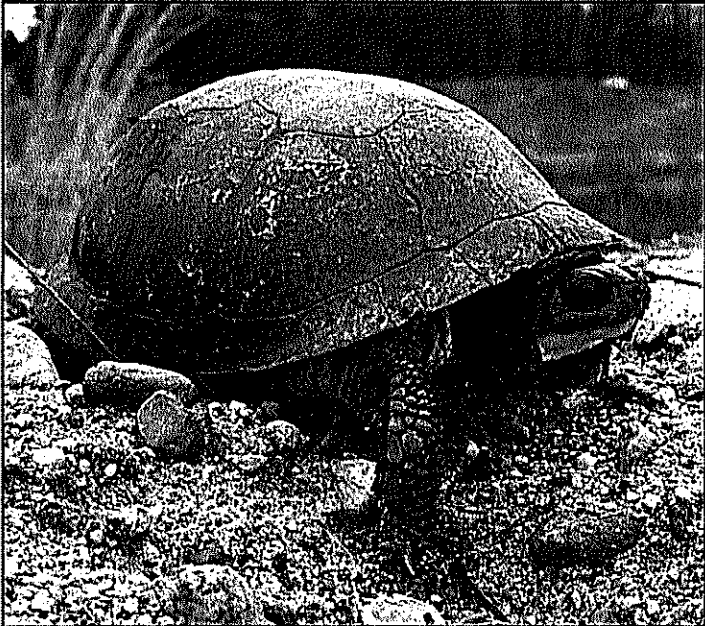


NEW HAMPSHIRE
STATE ENDANGERED



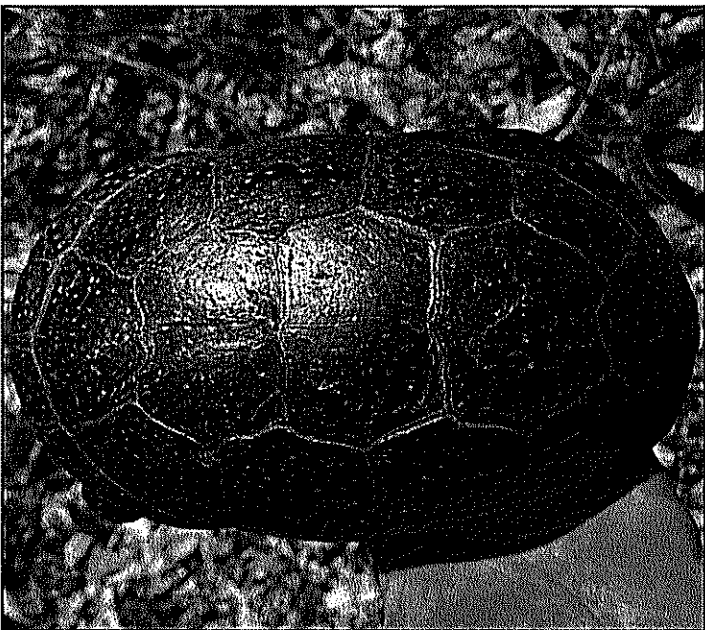
BLANDING'S TURTLE

Report Sightings: Contact Wildlife Biologist Josh Megyesy at (603) 271 – 1125 or the Wildlife Division at (603) 271 – 2461. Observation reports can be sent to RAARP@wildlife.nh.gov. Photographs and exact locations are strongly encouraged.



Specific Information:

- Adults are 7 – 9 inches long.
- Shell is highly domed with light speckles.
- Distinct yellow throat and chin.
- Uses variety of wetlands and moves extensively over land.
- Turtles are frequently concealed by leaves and undergrowth and may not be easily visible.
- Turtles are most active from April 15 – October 15.
- During nesting season (May 15 – July 15) turtles are attracted to disturbed ground.



This species is protected under RSA 212-A and Fis 1000. Thank you for reporting any observations.

PLEASE DO NOT DISTURB OR HANDLE WILDLIFE



Northern Black Racer

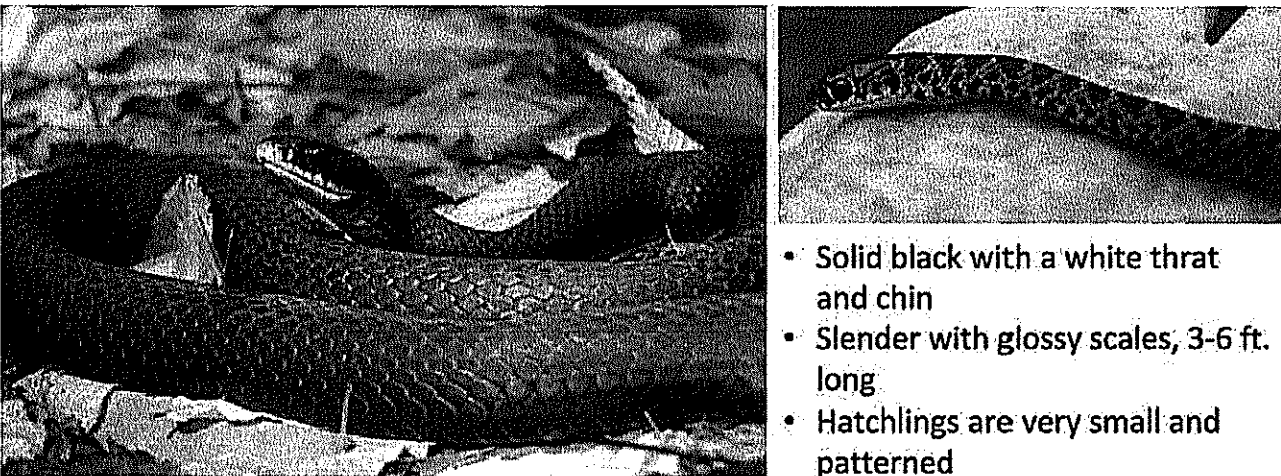
(New Hampshire state-threatened species)



NHFG Wildlife Biologist Contacts:

Melissa Winters 603-479-1129 and Brendan Clifford 603-944-0885

- **Emerge from hibernacula in April, Basking April - August**
- **Hatchlings emerge August - September, Return to hibernacula mid-September - mid-October**
- **Found in a variety of habitats but prefer early successional and sandy (sand pit) sites.**



- Solid black with a white throat and chin
- Slender with glossy scales, 3-6 ft. long
- Hatchlings are very small and patterned

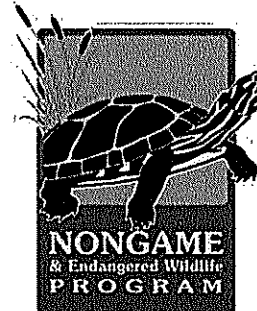


Northern black racers are protected by state laws. It is illegal to capture, harass or harm these species, including their nests. Handle ONLY if necessary to move out of harms way. Move to the nearest location in the direction they were moving and contact NHFG. Do not disturb nests. Fis 1401.03 (a) No person shall take or possess a black racer (Coluber constrictor)...or any egg or part thereof.

Report sightings in accordance with NHFG permit conditions. Contact NHFG Wildlife Biologist Melissa Winters 603-479-1129 (cell) and Brendan Clifford 603-944-0885 (group text preferred) if a turtle is observed nesting or a nest site is suspected within the project area. Please report promptly, noting specific location, project site and date – Photographs strongly encouraged to be included with report.

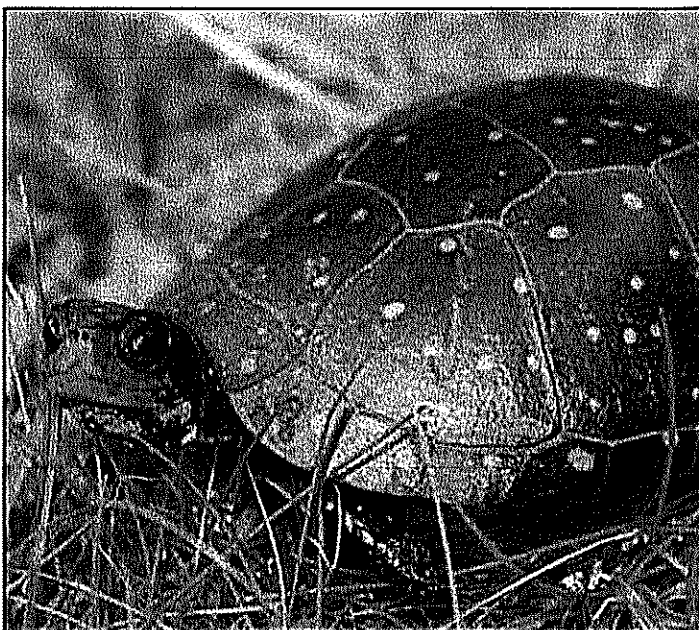


NEW HAMPSHIRE
STATE THREATENED



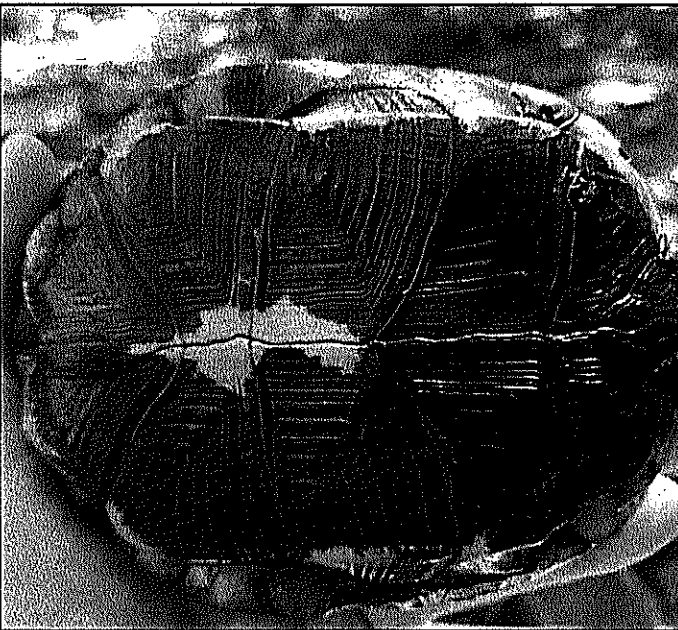
SPOTTED TURTLE

Report Sightings: Contact Wildlife Biologist Josh Megyesy at (603) 271 – 1125 or the Wildlife Division at (603) 271 – 2461. Observation reports can be sent to RAARP@wildlife.nh.gov. Photographs and exact locations are strongly encouraged.



Specific Information:

- Adults are 3 – 5 inches long
- Shell is black or brown, fairly flat, and with yellow spots.
- Uses variety of wetlands and moves extensively over land.
- Turtles are frequently concealed by leaves and undergrowth and may not be easily visible.
- Turtles are most active from April 15 – October 15.
- During nesting season (May 15 – July 15) turtles are attracted to disturbed ground.



This species is protected under RSA 212-A and Fis 1000. Thank you for reporting any observations.

PLEASE DO NOT DISTURB OR HANDLE WILDLIFE

EASTERN HOGNOSE SNAKE

(New Hampshire state endangered species)

Egg laying occurs June 1 - July 15th.

Young emerge in August - September.

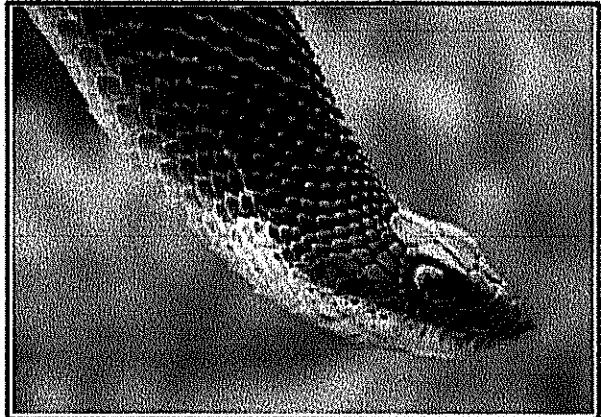


Identifying traits

- Black, gray or patterned appearance
- Upturned snout
- Adults are 2-3 ft. long
- May spread neck out or hiss
- May play dead if they feel threatened.
- Rarely bite – display is a defense strategy

Habitat Use

- Can be found in a variety of habitats throughout the season



Immediately report sightings to NH Fish & Game

**Melissa Winters (603-479-1129) or
Brendan Clifford (603-944-0885)**

**Please report promptly, noting specific location and date.
Photographs strongly encouraged.**



State Laws Pertaining to this Species

RSA 212-A:7, FIS 804.05, Fis 1401.03 (a)

CAUTION

NEW HAMPSHIRE FISH AND GAME AOT PERMIT CONDITIONS RELATED TO THREATENED AND ENDANGERED SPECIES:

1. NORTHERN BLACK RACER, SPOTTED TURTLE, BLANDINGS TURTLE, AND EASTERN HOGNOSE SNAKE, OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION. SEE PLAN SHEET G-2 FOR FLYERS.
2. RARE SPECIES INFORMATION (E.G. IDENTIFICATION, OBSERVATION AND REPORTING OF OBSERVATIONS, WHEN TO CONTACT NHFG IMMEDIATELY AND NHFG CONTACT INFORMATION) SHALL BE COMMUNICATED DURING MORNING TAILGATE MEETINGS PRIOR TO WORK COMMENCEMENT DURING THE CONSTRUCTION PHASE OF THE PROJECT. SEE PLAN SHEET G-1 FOR CONTACT INFORMATION.
3. ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED IMMEDIATELY TO THE NHFG NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV, WITH THE EMAIL SUBJECT LINE CONTAINING THE NHFG DATACHECK TOOL RESULTS LETTER ASSIGNED NUMBER, THE PROJECT NAME, AND THE TERM WILDLIFE SPECIES OBSERVATION.
4. PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFG IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION, AS FEASIBLE.
5. IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHFG.
6. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.
7. WILDLIFE EXCLUSIONARY BARRIER WITH J-HOOKS SHOULD BE INSTALLED BETWEEN THE WETLANDS AND CONSTRUCTION SITE AS SOON AS FEASIBLE, PREFERABLY NOT PRIOR TO APRIL 15TH, AND MAINTAINED BETWEEN APRIL 15TH AND OCTOBER 15TH THROUGHOUT THE LIFE OF THE ACTIVE PROJECT/CONSTRUCTION ACTIVITIES.
8. THE WILDLIFE EXCLUSIONARY BARRIER SHOULD BE BURIED TO A DEPTH OF NO LESS THAN 6"-8" AND EXTEND NO LESS THAN 18" ABOVE EXISTING GRADE.
9. THE WILDLIFE EXCLUSIONARY BARRIER SHOULD BE INSPECTED DAILY FOR ANY DEFECTS AS WELL AS POSSIBLE TRAPPED WILDLIFE PRIOR TO SITE CONSTRUCTION ACTIVITIES.
10. WILDLIFE ESCAPE MOUNDS ("RAMPS") SHOULD BE INSTALLED ON THE INTERIOR OF THE WILDLIFE EXCLUSIONARY BARRIER ALLOWING FOR POTENTIALLY ENTRAPPED WILDLIFE TO ESCAPE FROM THE PROJECT AREA. RAMPS SHOULD BE CONSTRUCTED ON THE WORK-ZONE SIDE OF THE BARRIER. WILDLIFE ESCAPE MOUNDS ("RAMPS") SHOULD BE INSTALLED AT LEAST EVERY 75-FT ALONG THE WILDLIFE EXCLUSIONARY BARRIER.
11. SEARCHES AND SWEEPS SHOULD BE CONDUCTED BY TRAINED INDIVIDUALS BETWEEN APRIL 15TH AND OCTOBER 15TH IMMEDIATELY BEFORE THE START OF WORK AND MOVEMENT OF EQUIPMENT IN ORDER TO MINIMIZE THE CHANCE OF ANIMALS ENTERING AN AREA BETWEEN THE SWEEP AND WORK.
12. ALL WORK AT THE WETLAND CROSSING AND IN WETLANDS SHOULD OCCUR BETWEEN APRIL 15TH AND OCTOBER 15TH TO AVOID IMPACTING OVERWINTERING TURTLES.

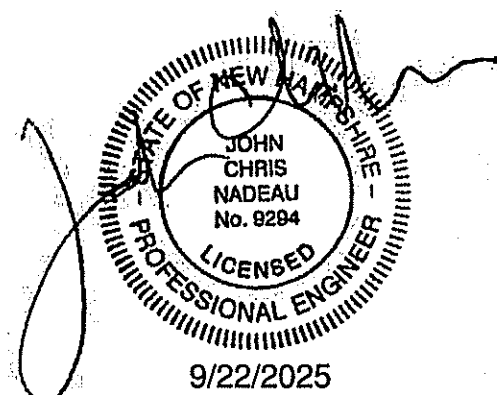
NHB25-0646 NEW HAMPSHIRE FISH AND GAME CONSERVATION MEASURE:

1. BLANDING'S TURTLE (STATE ENDANGERED), EASTERN HOGNOSE SNAKE (STATE THREATENED), AND NORTHERN BLACK RACER (STATE THREATENED) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. SPOTTED TURTLE (STATE THREATENED) ALSO VERY LIKELY OCCUR IN THE VICINITY DUE TO OVERLAPPING HABITAT USE AND DISTRIBUTION. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THIS SPECIES AND SHALL BE PROVIDED NHFG CONTACT INFORMATION. SEE PLAN SHEET G-2.
2. RARE SPECIES INFORMATION (E.G. IDENTIFICATION, OBSERVATION AND REPORTING OF OBSERVATIONS, WHEN TO CONTACT NHFG IMMEDIATELY AND NHFG CONTACT INFORMATION) SHALL BE COMMUNICATED DURING MORNING TAILGATE MEETINGS PRIOR TO WORK COMMENCEMENT DURING THE CONSTRUCTION PHASE OF THE PROJECT. SEE PLAN SHEET G-2.
3. OBSERVATIONS OF EASTERN HOGNOSE SNAKE AND NORTHERN BLACK RACER SHALL BE REPORTED IMMEDIATELY TO NHFG WILDLIFE BIOLOGISTS MELISSA WINTERS AND BRENDAN CLIFFORD FOR FURTHER CONSULTATION - VIA GROUP TEXT PREFERRED. SEE SPECIES FLYERS, SEE PLAN SHEET G-2 FOR NHFG CONTACT INFORMATION.
4. TURTLES MAY BE ATTRACTED TO DISTURBED GROUND DURING THE NESTING SEASON (MAY 15TH - JUNE 30TH). TURTLE NESTS ARE PROTECTED BY NH LAWS. IF A NEST IS OBSERVED OR SUSPECTED, OPERATORS SHALL CONTACT JOSH MEGYESY AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION. SEE SPECIES FLYERS, SEE PLAN SHEET G-2 FOR NHFG CONTACT INFORMATION.
 - a. THE NEST OR SUSPECTED NEST SHALL BE MARKED (SURROUNDING ROPED OFF OR CONE BUFFER DEPLOYED) AND AVOIDED; THIS SHALL BE COMMUNICATED TO ALL PERSONNEL ONSITE.
 - b. SITE ACTIVITIES SHALL NOT OCCUR IN THE AREA SURROUNDING THE NEST OR SUSPECTED NEST UNTIL FURTHER GUIDANCE IS PROVIDED BY NHFG.
5. THE EXISTING BROOK CROSSING CULVERT SHALL BE REPLACED WITH A PARTIALLY BURIED 48" RCP CULVERT. THE CULVERT SHALL CONTAIN SUBSTRATE/MATERIAL SIMILAR TO THAT FOUND ON EITHER SIDE OF THE CULVERT. SEE PLAN SHEET(S) C-4.0 AND C-6.5.
6. ALL WORK AT THE WETLAND CROSSING AND IN WETLANDS SHALL OCCUR BETWEEN APRIL 15TH AND OCTOBER 15TH TO AVOID IMPACTING OVERWINTERING TURTLES. SEE PLAN SHEET G-2.
7. FOR PROJECT ACTIVITIES OCCURRING BETWEEN APRIL 15TH AND OCTOBER 15TH, INSTALLATION OF A WILDLIFE EXCLUSIONARY BARRIER (E.G., SILT FENCE) WITH J-HOOKS, AS SHOWN IN THE ATTACHMENT "NHB25-0646_WILDLIFE EXCLUSIONARY BARRIER", SHALL BE INSTALLED AS FOLLOWS:
 - a. THE WILDLIFE EXCLUSIONARY BARRIER WITH J-HOOKS SHALL BE INSTALLED BETWEEN THE WETLANDS AND CONSTRUCTION SITE, AS SHOWN IN THE ATTACHMENT "NHB25-0646_WILDLIFE EXCLUSIONARY BARRIER", AS SOON AS FEASIBLE AND MAINTAINED BETWEEN APRIL 15TH AND OCTOBER 15TH THROUGHOUT THE LIFE OF THE ACTIVE PROJECT/CONSTRUCTION ACTIVITIES. PLEASE SEE THE ATTACHED FILE "WILDLIFE EXCLUSIONARY BARRIER GATE" FOR AN EXAMPLE OF A WILDLIFE EXCLUSIONARY BARRIER GATE THAT SHALL REMAIN CLOSED AT THE END OF THE WORK DAY. SEE PLAN SHEET(S) C-5.0, 5.1, 5.2, AND C-5.3.
 - b. THE WILDLIFE EXCLUSIONARY BARRIER SHALL BE BURIED TO A DEPTH OF NO LESS THAN 6"-8" AND EXTEND NO LESS THAN 18" ABOVE EXISTING GRADE. SEE PLAN SHEET C-6.3.
 - c. THE WILDLIFE EXCLUSIONARY BARRIER SHALL BE INSTALLED WITH THE WOOD STAKES EXPOSED ON THE INTERIOR SIDE OF THE WORK ZONE. SEE PLAN SHEET C-6.3.
 - d. THE WILDLIFE EXCLUSIONARY BARRIER SHALL BE INSPECTED DAILY FOR ANY DEFECTS AS WELL AS POSSIBLE TRAPPED WILDLIFE PRIOR TO SITE CONSTRUCTION ACTIVITIES. ANY DEFECTS SHALL BE REPAIRED IMMEDIATELY AND SHALL BE REPORTED TO NHFG WITHIN 24 HOURS OF DISCOVERY. THE SITE OPERATOR SHALL MAINTAIN A LOG OF ALL INSPECTIONS THAT INCLUDES DATE/TIME/OBSERVATIONS/DEFECTS/REPAIRS/COORDINATION EFFORTS/PHOTOGRAPHS DURING THE LIFE OF THE PERMIT OR UNTIL PROJECT COMPLETION, WHICHEVER OCCURS FIRST. THE LOGS SHALL BE MADE AVAILABLE IMMEDIATELY TO NHFG AND NHDES UPON WRITTEN REQUEST. SEE PLAN SHEET C-6.3.
 - e. WILDLIFE ESCAPE MOUNDS ("RAMPS") SHALL BE INSTALLED ON THE INTERIOR OF THE WILDLIFE EXCLUSIONARY BARRIER ALLOWING FOR POTENTIALLY ENTRAPPED WILDLIFE TO ESCAPE FROM THE PROJECT AREA. RAMPS SHALL BE CONSTRUCTED ON THE WORK-ZONE SIDE OF THE WILDLIFE EXCLUSIONARY BARRIER. THE RAMPS SHALL BE CONSTRUCTED OUT OF NATIVE MATERIAL (SAND/SOIL) FROM THE SITE AND SHALL BE AT A MINIMUM OF 3 FEET IN WIDTH. ADDITIONAL TALL STAKES SHALL BE INSTALLED IN THE LOCATION OF THESE RAMPS TO HELP SUPPORT THE SILT FENCING AS NEEDED. MATERIALS SUCH AS HAY OR MULCH MAY BE USED TO OFFSET WEIGHT AS LONG AS MATERIALS DO NOT ASSIST ANIMALS IN ENTERING WORK ZONE. WILDLIFE ESCAPE MOUNDS SHALL BE INSTALLED AT LEAST EVERY 75 FEET ALONG THE WILDLIFE EXCLUSIONARY BARRIER AND SHALL ONLY BE INSTALLED ON SIDES OF THE FENCE THAT DO NOT BORDER ROADS. PLEASE SEE THE ATTACHED FILE "WILDLIFE RAMP" FOR AN EXAMPLE OF A WILDLIFE ESCAPE MOUND. SEE PLAN SHEET C-6.3.
 - f. NHFG SHALL BE INFORMED IN WRITING WHEN WILDLIFE EXCLUSIONARY BARRIER INSTALLATION HAS BEEN COMPLETED. SEE PLAN SHEET C-6.3.
8. EXPANSION OF EXISTING GRAVEL ACCESS ROAD, AS SHOWN IN THE ATTACHMENT "NHB25-0646_WILDLIFE EXCLUSIONARY BARRIER", SEARCHES AND SWEEPS SHALL BE CONDUCTED BY TRAINED INDIVIDUALS BETWEEN APRIL 15TH AND OCTOBER 15TH IMMEDIATELY BEFORE THE START OF WORK AND MOVEMENT OF EQUIPMENT IN ORDER TO MINIMIZE THE CHANCE OF ANIMALS ENTERING AN AREA BETWEEN THE SWEEP AND WORK. A TRAINED INDIVIDUAL SHALL BE DEFINED AS ANY CONTRACTOR WHO HAS REVIEWED THE SPECIES PROFILES FOR SPOTTED TURTLE, BLANDING'S TURTLE, EASTERN HOGNOSE SNAKE, AND NORTHERN BLACK RACER IN NHFG'S STATE WILDLIFE ACTION PLAN. SWEEPS (E.G. VISUAL OBSERVATIONS MADE WHILE WALKING TRANSECTS) SHALL CONSIST OF TRAINED INDIVIDUALS MOVING THROUGH THE AREA AND SURROUNDING VICINITY THAT WILL BE IMPACTED BY THE CURRENT ACTIVITIES AND ACTIVELY LOOKING FOR TURTLES (AND OTHER WILDLIFE) THAT MAY BE IMPACTED BY PROJECT ACTIVITIES. PLEASE SEE WAP ATTACHMENTS FOR SPECIES PROFILES. SEE PLAN SHEET C-5.3.
9. IF HYDROSEEDING IS DEEMED NECESSARY, THE MIX SHALL NOT CONTAIN MICROPLASTICS AND DYES SHALL BE WATER-SOLUBLE AND ECO-FRIENDLY. HYDROSEEDING SHALL NOT OCCUR WITHIN 75 FEET OF WETLANDS. SEE PLAN SHEET C-5.0.
10. AVOID OR MINIMIZE THE USE OF FERTILIZERS IN UPLAND AREAS OR TRANSITION ZONES. IF FERTILIZERS ARE NECESSARY, USE ORGANIC VERSUS SYNTHETIC FERTILIZER OPTIONS. SYNTHETIC OPTIONS SHOULD BE AVOIDED; HOWEVER, IF CHOSEN, THEY SHALL BE CONTROLLED-RELEASED/SLOW-RELEASED AND AT LOW STRENGTHS. SEE PLAN SHEET C-5.1.
11. CATCH BASINS AND OUTLET CONTROL STRUCTURES SHALL NOT CONTAIN SUMPS AND SHALL HAVE GRATE OPENINGS NO LARGER THAN 2" X 2". SEE PLAN SHEET(S) C-4.0 AND C-6.1.
12. OUTLET CONTROL STRUCTURES (IF PROVIDED) SHALL NOT BE PLACED ADJACENT TO THE SIDE SLOPES BUT RATHER AS FAR AWAY AS POSSIBLE TO DETER WILDLIFE FROM CRAWLING ONTO THEM AND FALLING THROUGH THE GRATE OPENINGS. THESE STRUCTURES SHALL BE A MINIMUM OF 12'-18" ABOVE GRADE AND BE SET BACK AT LEAST 3' FROM ADJACENT SLOPES.
13. RIP-RAP SHALL BE FILLED WITH FINER MATERIAL (I.E., NATIVE WETLAND MATERIAL, NATIVE WETLAND SEED MIX, OR GRAVEL IN BETWEEN RIP-RAP) TO CREATE A RELATIVELY SMOOTH SURFACE FOR WILDLIFE TO TRAVERSE. SEE PLAN SHEET C-6.4.
14. A NATIVE SEED MIXTURE SHALL BE APPLIED TO ALL AREAS AFFECTED BY CONSTRUCTION. THE SEED MIXTURE SHOULD NOT CONTAIN INVASIVE SPECIES SUCH AS BIRD'S-FOOT TREFOIL, CROWN VETCH, ALSIKE CLOVER, OR FLATPEA. SEE PLAN SHEET G-1.
15. PROPOSED GRAVEL AREAS SHALL BE HARDPACKED TO DETER TURTLES AND SNAKES FROM NESTING IN THESE AREAS. SEE PLAN SHEET C-3.0.
16. SEARCHES AND SWEEPS FOR WILDLIFE SHALL OCCUR IN LOT C PRIOR TO MOWING. SEE PLAN SHEET C-3.0.
17. 5 MPH SPEED LIMIT SIGNS SHALL BE POSTED ALONG ROADWAYS ON THE SITE. SEE PLAN SHEET(S) C-3.0 AND C-3.1.
18. WILDLIFE CROSSING SIGNS SHALL BE INSTALLED IN PARKING AREAS AND ALONG ROADWAYS ON THE SITE. SEE PLAN SHEET(S) C-3.0 AND C-3.1.
19. NO EQUIPMENT OR MATERIALS SHALL BE STAGED OR STORED IN THE WETLANDS AND SLASH SHALL NOT BE LEFT IN THE WETLANDS. SEE PLAN SHEET C-4.0.
20. ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, WITH THE EXCEPTION OF TURF REINFORCEMENT MATS, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN PLASTIC, OR MULTIFILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES. SEE PLAN SHEET(S) XXXXX.
21. ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED IMMEDIATELY TO THE NHFG NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV, WITH THE EMAIL SUBJECT LINE CONTAINING THE NHFG DATACHECK TOOL RESULTS LETTER ASSIGNED NUMBER, THE PROJECT NAME, AND THE TERM WILDLIFE SPECIES OBSERVATION.
 - a. PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFG IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION, AS FEASIBLE.
22. IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHFG.
 - a. SITE OPERATORS SHALL BE ALLOWED TO RELOCATE WILDLIFE ENCOUNTERED IF DISCOVERED WITHIN THE ACTIVE WORK ZONE IF IN DIRECT HARM FROM PROJECT ACTIVITIES.
 - b. WILDLIFE SHALL BE RELOCATED IN CLOSE PROXIMITY TO THE CAPTURE LOCATION BUT OUTSIDE OF THE WORK ZONE AND IN THE DIRECTION THE INDIVIDUAL WAS HEADING.
 - c. NHFG SHALL BE CONTACTED IMMEDIATELY IF THIS ACTION OCCURS.
23. NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.



nobis

Nobis Group®
18 Chenell Drive
Concord, NH 03301
T(603) 224-4182
www.nobis-group.com



ISSUED FOR
CONSTRUCTION

NHSCOT
HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 322 / LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

NO.	DATE	DESCRIPTION
△	09/03/2025	CITY OF CONCORD AND AOT COMMENTS
△	06/20/2025	CITY OF CONCORD AND AOT COMMENTS
△	04/28/2025	NHFG COMMENTS

REVISIONS

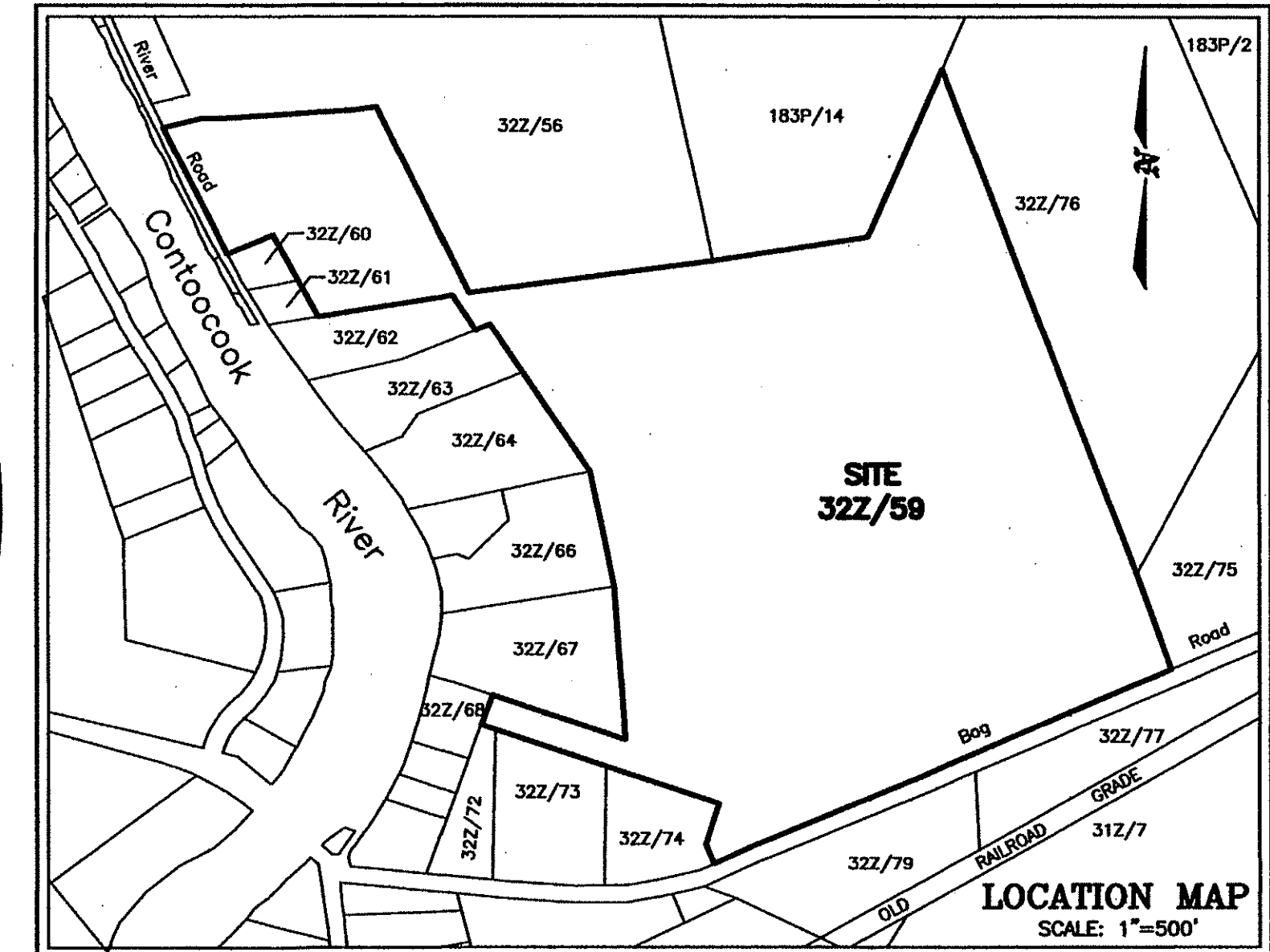
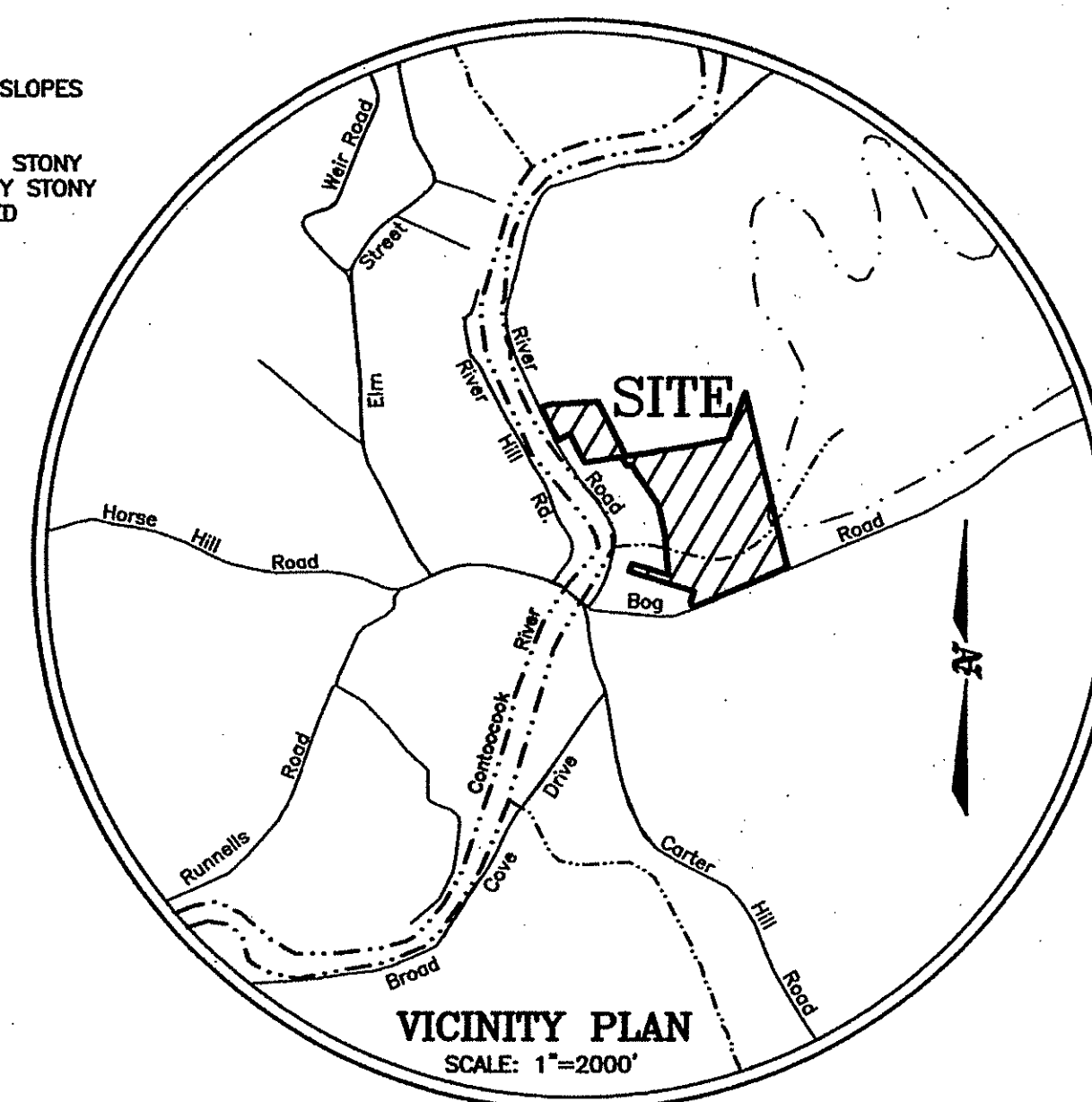
SCALE:
AS NOTED

DATE:	FEBRUARY 18, 2025
NOBIS PROJECT NO.	100661.000
DRAWN BY:	KLR & MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-005-NOTES & LEGEND.dwg
SHEET TITLE	

GENERAL
NOTES AND
LEGEND

SHEET
G-2

SOILS LEGEND
FROM NRCS ONLINE WEB SOIL SURVEY
17A: SEARSPORT-CHOCORUA-NAUMBERG COMPLEX, 0-1% SLOPES
214A: NAUMBERG LOAMY SAND, 0-5% SLOPES
300B: UDIPSAMMENTS, 0-5% SLOPES
479B: GILMANTON FINE SANDY LOAM, 3-8% SLOPES, VERY STONY
479C: GILMANTON FINE SANDY LOAM, 8-15% SLOPES, VERY STONY
613A: CROGHAN LOAMY FINE SAND, 0-8% SLOPES, WOODED



NOTES

- THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS ON LOT 59 AS SEEN ON THE CITY OF CONCORD ASSESSOR'S MAP 322.
- THE SUBJECT PARCEL LIES IN THE "RO" OPEN SPACE RESIDENTIAL DISTRICT AND IS SUBJECT TO THE FOLLOWING RESTRICTIONS:

MIN. LOT SIZE:	2 Ac
MIN. BUILDABLE:	20,000 S.F.
MIN. FRONTAGE:	200'
BUILDING SETBACKS:	
FRONT:	50'
SIDE:	40'
REAR:	50'
MAX. LOT COVERAGE:	10%
MAX. BUILDING HEIGHT:	35'
WETLAND BUFFER:	50'
- **A PORTION OF THE SUBJECT PARCEL LIES IN THE "SP" SHORELAND PROTECTION OVERLAY DISTRICT.
- THE INFORMATION SHOWN HEREON IS FROM A FIELD SURVEY PERFORMED BY THIS OFFICE IN 1997 AND 2008 WITH UPDATES IN APRIL 2024 USING A TOTAL STATION INSTRUMENT. THE TRAVERSE HAS AN ERROR OF CLOSURE OF 1 PART IN 15,000 OF BETTER.
- THE BEARINGS SHOWN HEREON ARE REFERENCED TO NH STATE PLANE GRID NORTH NAD 83/11 BASED ON GPS OBSERVATIONS PERFORMED BY THIS OFFICE IN APRIL 2024. THE VERTICAL DATUM IS NAVD88. ALL DISTANCES ARE GROUND US SURVEY FEET.
- A PORTION OF THE PROPERTY LIES WITHIN THE 100 YEAR FLOOD HAZARD AREA AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR THE CITY OF CONCORD, MAP NO. 3301300338E AND 3301300528E, WITH EFFECTIVE DATE APRIL 19, 2010.
- THE WETLANDS SHOWN HEREON WERE DELINEATED IN THE FIELD UNDER THE SUPERVISION OF TIMOTHY F. BERNIER, CWS #052, IN APRIL 2024 IN ACCORDANCE WITH ENR-WI 406.01.
- UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE, BASED ON SURFACE EVIDENCE FOUND DURING THE SURVEY. UNDERGROUND WATER AND ELECTRICAL SERVICES ARE KNOWN TO EXIST ALTHOUGH THERE WAS NO SUBSTANTIAL EVIDENCE FOUND AS TO THEIR LOCATION. NOT ALL UNDERGROUND UTILITIES ARE SHOWN HEREON.
- SEPTIC LEACH FIELD #1 AND #2 ARE SHOWN BASED ON AS-BUILT SEPTIC DESIGN PLANS ON FILE WITH THE NHDES AND SURFACE EVIDENCE FOUND.

LEACH FIELD #1 CONSTRUCTION APPROVAL #CA1998006945	OPERATIONAL APPROVAL: 5/10/00
LEACH FIELD #2 CONSTRUCTION APPROVAL #CA1998006958	OPERATIONAL APPROVAL ON 5/10/00.

 LEACH FIELD #3 NO CONSTRUCTION APPROVAL. THE SEPTIC SYSTEMS SERVING THE OLDER ORIGINAL CAMP MAY HAVE BEEN INSTALLED PRIOR TO 1965 OR INSTALLED IN ACCORDANCE WITH THE "IN KIND" RULES IN PLACE AT THE TIME.
- THERE WAS AN EASEMENT GRANTED TO ENERGY NORTH PROPANE, INC. FOR INGRESS, EGRESS, AND MAINTENANCE OF EQUIPMENT IN CAMP SPAILLING. SEE M.C.R.D. BOOK 2192 PAGE 272.
- THERE WAS AN EASEMENT GRANTED TO CONCORD ELECTRIC COMPANY AND NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY D/B/A BELL ATLANTIC NEW ENGLAND. THE EASEMENT IS FOR INGRESS, EGRESS, MAINTENANCE AND INSTALLATION OF EQUIPMENT AND IS 15' WIDE ALONG ACCESS ROAD FROM UTILITY POLE #49 ON BOG ROAD. SEE M.C.R.D. BOOK 2181 PAGE 212.
- THERE WAS A NEGATIVE EASEMENT PLACED ON LOT 46 IN FAVOR OF THE OWNERS OF MAP 107 BLOCK 2 LOTS 5, 6, 7, 8, 15 & 49 AND MAP 107 BLOCK 1 LOT 6 AND MAP 103 BLOCK 2 LOT 31 (FORMER CITY MAP & LOT NUMBERS). THE EASEMENT RESTRICTS ACTIVITIES ON THE PROPERTY. SEE M.C.R.D. BOOK 2015 PAGE 522.
- THE SITE IS NOT SERVICED BY MUNICIPAL UTILITIES.
- THE SITE DOES NOT FALL WITHIN THE AQUIFER PROTECTION DISTRICT.
- THERE ARE NO PUBLIC SPACES, PARKS OR HISTORIC STRUCTURES ON SITE.

LOT AREA TABULATIONS

LOT 59	ACRES	SQUARE FEET
GROSS ACRES	57.077	2,486,261
BUILDINGS	0.530	23,100
IMPERVIOUS	1.687	73,475(2.9%)
WETLANDS	10.896	474,630
15-25% SLOPES	4.391	191,290
>25% SLOPES	7.691	335,030
EASEMENTS	1.321	57,559
100 YEAR FH	0.560	24,382
BUILDABLE-NON RES.	44.953	1,958,141
BUILDABLE-RES.	33.464	1,449,874
USEABLE-NON RES.	33.285	1,457,679
USEABLE-RES.	21.795	949,411

LEGEND

ANGLE POINT	SCS SOILS BOUNDARY
GRANITE / STONE BOUND	10' CONTOUR
IRON ROD FOUND	2' CONTOUR
IRON PIPE FOUND	WETLAND
DRILL HOLE FOUND/SET	TREELINE
MAILBOX	PAVEMENT
LIGHT POLE	GRAVEL
UTILITY POLE	OVERHEAD UTILITIES
ELECTRIC MANHOLE	15-25% SLOPES
WELL	>25% SLOPES
HARDWOOD TREE	
BENCHMARK	

PLAN REFERENCES

- BOUNDARY PLAN LAND OF BARBARA JOHNS ASSESSOR'S MAP 107 BLOCK 2 LOT 46 BOG ROAD, CONCORD, NEW HAMPSHIRE SCALE: 1"=100' DATE: JANUARY 1986 PREPARED BY THIS OFFICE AND RECORDED AT THE MERRIMACK COUNTY REGISTRY OF DEEDS AS PLAN #13567.
- RESUBDIVISION PLAN LAND OF BARBARA J. JOHNS, LOCATED ON RIVER ROAD, CONCORD, NEW HAMPSHIRE, ASSESSOR'S MAP 107 BLOCK 2 LOT 50 AND 46. SCALE: 1"=50' DATE: NOVEMBER 1995. PREPARED BY THIS OFFICE AND RECORDED AT THE MERRIMACK COUNTY REGISTRY OF DEEDS AS PLAN #13566.

MAP 322 LOT 62
(135-137 RIVER ROAD)
RYFF 1, LLC
P.O. BOX 1497
CONCORD, NH 03302
BOOK 3710 PAGE 945

MAP 322 LOT 63
(141 RIVER ROAD)
LEON L. LAFRENIERE TRUST
LEON L. LAFRENIERE, TRUSTEE
141 RIVER ROAD
CONCORD, NH 03303
BOOK 3187 PAGE 286

OWNERS OF RECORD

MAP 322 LOT 59
CHILD AND FAMILY SERVICES
REALTY CORPORATION
P.O. BOX 448
MANCHESTER, NH 03105
BOOK 1829 PAGE 67
BOOK 2015 PAGE 519
MERGER: BOOK 3074 PAGE 1220

NO.	REVISION	DATE
2	CITY COMMENTS	2/5/25
1	CITY COMMENTS	12/23/24

DESIGNED BY	DRAWN BY	CHECKED BY	F.B.	PG.	JOB #
	TFB	TFB	243	29	046-001

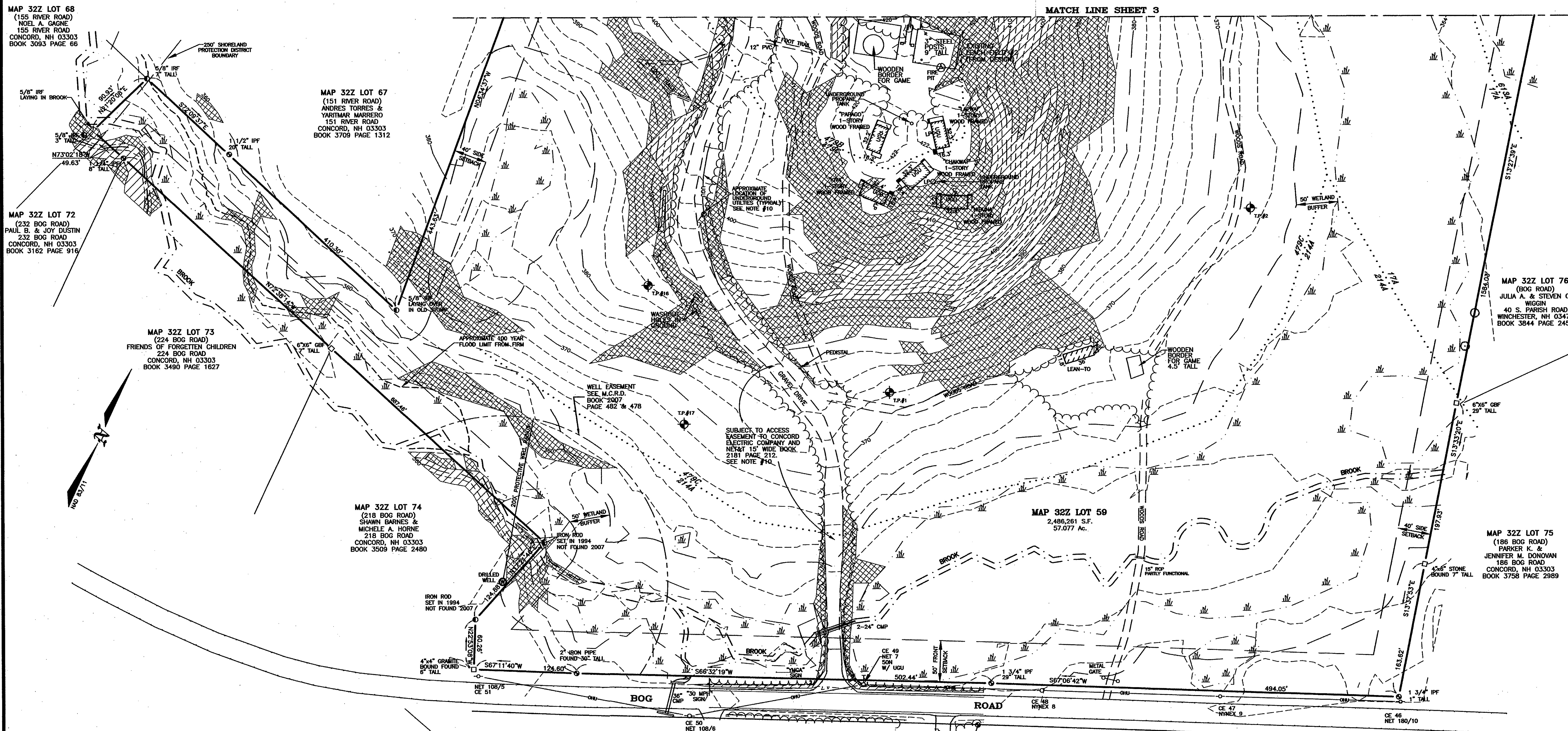


T. F. BERNIER

A Division of Hoyle Tanner

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01_Exist_Cond_June-24.dwg



LEGEND

- ANGLE POINT
- GRANITE / STONE BOUND
- IRON ROD FOUND
- IRON PIPE FOUND
- ⊙ DRILL HOLE FOUND/SET
- ⊙ MAILBOX
- ⊙ LIGHT POLE
- ⊙ UTILITY POLE
- ⊙ ELECTRIC MANHOLE
- ⊙ WELL
- ⊙ HARDWOOD TREE
- ⊙ BENCHMARK
- SCS SOILS BOUNDARY
- 10' CONTOUR
- 2' CONTOUR
- WETLAND
- TREELINE
- PAVEMENT
- GRAVEL
- OHU --- OVERHEAD UTILITIES
- 15-25% SLOPES
- >25% SLOPES

SOILS LEGEND

FROM NRCS ONLINE WEB SOIL SURVEY
17A: SEARSPORT-CHOCORUA-NAUMBERG COMPLEX, 0-1% SLOPES
214A: NAUMBERG LOAMY SAND, 0-5% SLOPES
300B: UDIPSAMMENTS, 0-8% SLOPES
479B: GILMANTON FINE SANDY LOAM, 3-8% SLOPES, VERY STONY
479C: GILMANTON FINE SANDY LOAM, 8-15% SLOPES, VERY STONY
613A: CROGHAN LOAMY FINE SAND, 0-8% SLOPES, WOODED

MAP 32Z LOT 77
(BOG ROAD)
CITY OF CONCORD
41 GREEN STREET
CONCORD, NH 03301
BOOK 523 PAGE 2

OWNERS OF RECORD
MAP 32Z LOT 59
CHILD AND FAMILY SERVICES
REALTY CORPORATION
P.O. BOX 448
MANCHESTER, NH 03105
BOOK 1829 PAGE 67
BOOK 2015 PAGE 519
MERGER: BOOK 3074 PAGE 1220

NO.	REVISION	DATE
2	CITY COMMENTS	2/5/25
1	CITY COMMENTS	12/23/24

EXISTING CONDITIONS PLAN
PREPARED FOR
NH·SCOT
ASSESSOR'S MAP 32Z LOT 59
210 BOG ROAD
CONCORD, NEW HAMPSHIRE
SCALE: 1"=60' DATE: JUNE 2024
SHEET 2 OF 3

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	TJB	TFB	243	29	046-001

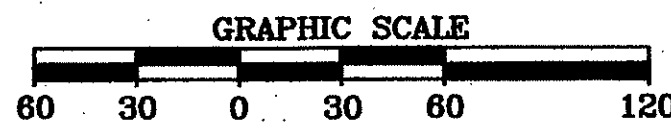
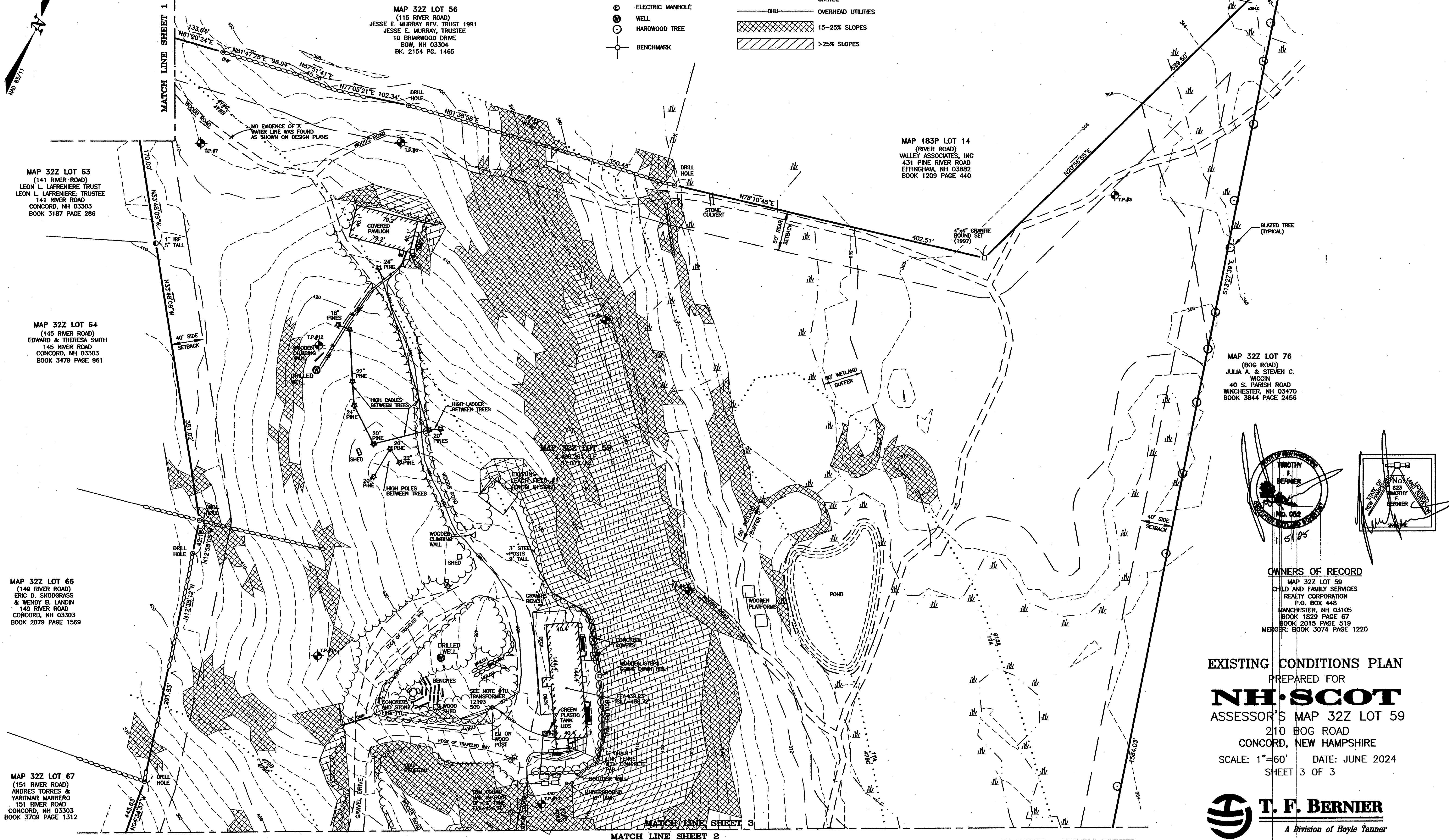
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LEGEND

- ANGLE POINT
- GRANITE / STONE BOUND
- IRON ROD FOUND
- IRON PIPE FOUND
- DRILL HOLE FOUND/SET
- MAILBOX
- LIGHT POLE
- UTILITY POLE
- ELECTRIC MANHOLE
- WELL
- HARDWOOD TREE
- BENCHMARK
- SCS SOILS BOUNDARY
- 10' CONTOUR
- 2' CONTOUR
- WETLAND
- TREELINE
- PAVEMENT
- GRAVEL
- OVERHEAD UTILITIES
- 15-25% SLOPES
- >25% SLOPES

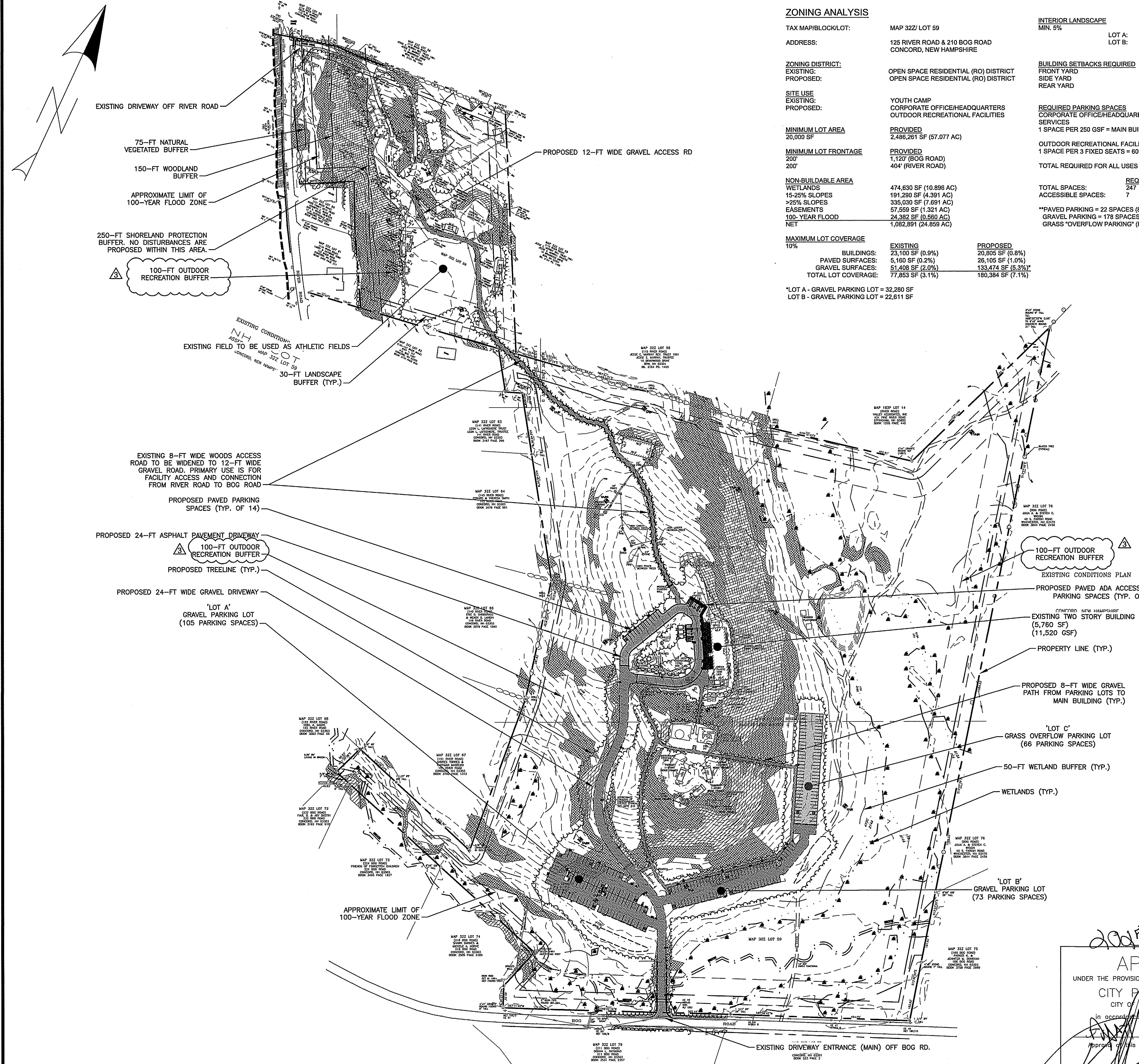
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FROM NRCS ONLINE WEB SOIL SURVEY
 17A: SEARSPORT-CHOCORUA-NAUMBERG COMPLEX, 0-1% SLOPES
 214A: NAUMBERG LOAMY SAND, 0-5% SLOPES
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 479C: GILMANTON FINE SANDY LOAM, 8-15% SLOPES, VERY STONY
 613A: CROGHAN LOAMY FINE SAND, 0-8% SLOPES, WOODED



NO.	REVISION	DATE
2	CITY COMMENTS	2/9/25
1	CITY COMMENTS	12/23/24

DESIGNED BY	DRAWN BY	CHECKED BY	F.B.	PG.	JOB #
	TJB	TFB	243	29	046-001
DRAWING NAME					
03_Ext_Cond_June-24.dwg					



ZONING ANALYSIS

TAX MAP/BLOCK/LOT:	MAP 322/ LOT 59
ADDRESS:	125 RIVER ROAD & 210 BOG ROAD CONCORD, NEW HAMPSHIRE
ZONING DISTRICT:	OPEN SPACE RESIDENTIAL (RO) DISTRICT
EXISTING:	OPEN SPACE RESIDENTIAL (RO) DISTRICT
PROPOSED:	YOUTH CAMP CORPORATE OFFICE/HEADQUARTERS OUTDOOR RECREATIONAL FACILITIES
SITE USE:	
EXISTING:	
PROPOSED:	
MINIMUM LOT AREA	20,000 SF
PROVIDED	2,485,261 SF (57.077 AC)
MINIMUM LOT FRONTAGE	200'
PROVIDED	1,120' (BOG ROAD) 404' (RIVER ROAD)
NON-BUILDABLE AREA	
WETLANDS	474,630 SF (10.896 AC)
15-25% SLOPES	191,290 SF (4.391 AC)
>25% SLOPES	335,030 SF (7.691 AC)
EASEMENTS	57,550 SF (1.321 AC)
100-YEAR FLOOD	24,382 SF (0.560 AC)
NET	1,082,891 (24.859 AC)
MAXIMUM LOT COVERAGE	10%
EXISTING	23,100 SF (0.53%)
PROPOSED	20,805 SF (0.47%)
PAVED SURFACES:	5,160 SF (0.12%)
GRAVEL SURFACES:	51,408 SF (1.15%)
TOTAL LOT COVERAGE:	77,668 SF (1.73%)
PAVED SURFACES:	26,105 SF (0.58%)
GRAVEL SURFACES:	133,474 SF (3.01%)
TOTAL LOT COVERAGE:	180,384 SF (4.11%)
*LOT A - GRAVEL PARKING LOT = 32,280 SF	
LOT B - GRAVEL PARKING LOT = 22,611 SF	

INTERIOR LANDSCAPE

MIN. 5%	LOT A:	PROPOSED
	LOT B:	3,000 SF (0.68%)
		1,675 SF (0.37%)

BUILDING SETBACKS REQUIRED	REQUIRED
FRONT YARD	50'
SIDE YARD	40'
REAR YARD	50'

REQUIRED PARKING SPACES
CORPORATE OFFICE/HEADQUARTERS: GENERAL PERSONAL AND BUSINESS SERVICES
1 SPACE PER 250 GSF = MAIN BUILDING (11,520 GSF) = 47 REQUIRED SPACES.
OUTDOOR RECREATIONAL FACILITIES: PUBLIC ASSEMBLY USE (FIXED SEATS)
1 SPACE PER 3 FIXED SEATS = 600 MAX ATTENDEES = 200 REQUIRED SPACES.
TOTAL REQUIRED FOR ALL USES = 246 SPACES

TOTAL SPACES:	REQUIRED	EXISTING	PROPOSED
ACCESSIBLE SPACES:	247	0	201*
*PAVED PARKING = 22 SPACES (8 ADA)			
GRAVEL PARKING = 178 SPACES			
GRASS "OVERFLOW PARKING" (IF NEEDED) = 66 SPACES			

TOTAL SPACES: 247
ACCESSIBLE SPACES: 247
PAVED PARKING = 22 SPACES (8 ADA)
GRAVEL PARKING = 178 SPACES
GRASS "OVERFLOW PARKING" (IF NEEDED) = 66 SPACES

NOTES:

1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE PROPOSED LAYOUT FOR NEW PARKING, DRIVEWAY, AND ACCESS DRIVEWAYS FOR NHSCOT HEADQUARTERS.
2. DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR TO USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS, THE ENGINEER WILL BE NOTIFIED BY THE CONTRACTOR.
3. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-800-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
4. A MANDATORY PRE-CONSTRUCTION MEETING WILL NEED TO BE HELD PRIOR TO ISSUANCE OF ANY PERMITS TO DISCUSS INSPECTION FEES, CONSTRUCTION SCHEDULE, ETC.
5. REFER TO CONSTRUCTION DETAIL SHEETS FOR ALL APPLICABLE SITE DETAILS.
6. CONTRACTOR WILL NOTIFY ENGINEERS IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
7. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.

PLAN REFERENCES:

1. EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "EXISTING CONDITIONS PLAN", DATED MAY, 2024, PROVIDED TO NOBIS GROUP BY TF BERNIER.
2. BOUNDARY PLAN LAND OF BARBARA JOHNS ASSESSOR'S MAP 107 BLOCK 2 LOT 46 BOG ROAD, CONCORD, NEW HAMPSHIRE SCALE: 1" = 100' DATE: JANUARY 1998 PREPARED BY TF BERNIER AND RECORDED AT THE MERRIMACK COUNTY REGISTRY OF DEEDS AS PLAN #13567.
3. RESUBDIVISION PLAN PLAN OF BARBARA H. JOHNS, LOCATED ON RIVER ROAD, CONCORD, NEW HAMPSHIRE, ASSESSOR'S MAP 107 BLOCK 2 LOT 50 AND 46. SCALE: 1" = 50' DATE: NOVEMBER 1995. PREPARED BY TF BERNIER AND RECORDED AT THE MERRIMACK COUNTY REGISTRY OF DEEDS AS PLAN #13566.

CERTIFICATE OF OWNERSHIP:

OWNER OF RECORD: CHILD AND FAMILY SERVICES REALTY CORPORATION - P.O. BOX 448, MANCHESTER, NEW HAMPSHIRE, 03105, TAX MAP 322, LOT 59, BOOK 1829 PAGE 67, BOOK 2015 PAGE 519, AND MERGER BOOK 3074 PAGE 1220.

CITY OF CONCORD APPROVALS:

THE ZONING BOARD OF ADJUSTMENT OF THE CITY OF CONCORD, GRANTED THE FOLLOWING VARIANCES ON DECEMBER 4, 2024.
ARTICLE 28-2-4(i) - TO PERMIT PERSONAL AND BUSINESS SERVICES IN THE RO DISTRICT.
ARTICLE 28-2-4(h) - TO PERMIT MULTIPLE PRINCIPAL USES ON THE SAME LOT. (PERSONAL AND BUSINESS SERVICES, AND OUTDOOR RECREATIONAL FACILITY).

THE PLANNING BOARD OF THE CITY OF CONCORD, GRANTED A MAJOR SITE PLAN APPROVAL WITH THE FOLLOWING CONDITIONAL USE PERMITS AND WAIVERS ON APRIL 16, 2025.

CONDITIONAL USE PERMITS GRANTED FOR SITE PLAN APPROVAL

- ARTICLE 28-7-11(b) - CONSTRUCTION OF FEWER PARKING SPACES
- ARTICLE 28-7-11(e) - ALTERNATIVE SURFACING FOR PARKING LOTS
- ARTICLE 28-4-3(i) - DISTURBANCE TO A WETLAND BUFFER
- ARTICLE 28-2-4(j) - PRINCIPAL USES PERMITTED BY CONDITIONAL USE PERMIT

WAIVERS GRANTED FOR SITE PLAN APPROVAL

1. SECTION 12.02(1)(a)
2. SECTION 12.02(1)(b)
3. SECTION 12.04(9)
4. SECTION 12.07
5. SECTION 15.01(8)
6. SECTION 15.02(8)
7. SECTION 15.03(18)
8. SECTION 15.03(23)(b)
9. SECTION 15.03(23)(e)
10. SECTION 15.04(21)
11. SECTION 15.04(6)
12. SECTION 15.04(7)
13. SECTION 16.02(19)
14. SECTION 16.03(4)
15. SECTION 16.03(9)
16. SECTION 16.03(10)
17. SECTION 16.03(11)
18. SECTION 16.17
19. SECTION 18.22
20. SECTION 21.03
21. SECTION 21.05(3)
22. SECTION 22.07(2)

- SECTION 15.04(6), SECTION 16.02(7), AND SECTION 17.04 TO NOT PROVIDE INDIVIDUAL ADDRESSES FOR ALL THE BUILDINGS WITHIN THE ENTIRE SITE.
- SECTION 16.02(22) CONSTRUCTION DETAILS, TO NOT PROVIDE DETAIL D-7 DRIVE WITH SLOPED GRANITE CURB, WHO SIDEWALK TO EXCLUDE THE SLOPED CURB REQUIREMENT AS THERE CURRENTLY IS NO CURBING ALONG THE RIGHT-OF-WAY OF BOG RD.
- SECTION 18.09 SUBJECT TO THE CONDITION THAT TRAFFIC PARKING ATTENDANTS SHALL BE PRESENT ON THE SITE TO DIRECT PARKING FOR OUTDOOR EVENTS

CONDITIONS OF APPROVAL TO ARTICLE 28-2-4(j) CUP PERMIT:

- a. LARGE OUTDOOR EVENTS SHALL BE LIMITED TO A MAXIMUM OF SIX PER CALENDAR YEAR.
- b. LARGE OUTDOOR EVENTS SHALL NOT BEGIN UNTIL 10:00 A.M., WITH OUTDOOR MUSIC CEASING BY 8:00 P.M., AND REMAINING OUTDOOR ACTIVITIES ASSOCIATED WITH THE OUTDOOR EVENT CEASING BY 9:00 P.M., NOTING THAT SETUP PREPARATION AND CLOSING DOWN OF THE SITE BY NHSCOT STAFF MAY OCCUR PRIOR TO 10:00 A.M. AND AFTER 9:00 P.M. ON THE DAY OF THE EVENT.
- c. LARGE OUTDOOR EVENTS SHALL HAVE A DURATION OF NO MORE THAN TWO BACK-TO-BACK DAYS.
- d. OUTDOOR EVENTS SHALL BE LIMITED TO NO MORE THAN 600 ATTENDEES, INCLUDING ALL AGES, AND NO MORE THAN 200 VEHICLES.
- e. NHSCOT SHALL POST NOTIFICATIONS ON THEIR SOCIAL MEDIA WEBSITES REGARDING THE SIX LARGE OUTDOOR EVENTS BY MARCH 1ST OF EACH CALENDAR YEAR.

CONDITIONS OF APPROVAL TO ARTICLE 28-7-11(e) CUP PERMIT:

- a. ON OR BEFORE MARCH 1ST OF EACH CALENDAR YEAR, NHSCOT SHALL EMAIL THE PLANNING DIVISION THE CALENDAR OF EVENTS SCHEDULED FOR THAT CALENDAR YEAR, ALONG WITH ESTIMATED ATTENDANCE AND DESIGNATED PARKING LOTS FOR EACH EVENT, SUCH THAT SCHEDULED EVENTS UTILIZING THE ALTERNATIVE SURFACED PARKING AREAS ARE OCCURRING LESS THAN SIX MONTHS FOR THAT CALENDAR YEAR.

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9/22/2025

ISSUED FOR CONSTRUCTION

NHSCOT HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 322 / LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

NO.	DATE	DESCRIPTION
1	09/03/2025	CITY OF CONCORD AND AOT COMMENTS
2	06/20/2025	CITY OF CONCORD AND AOT COMMENTS
3	04/28/2025	NHFG COMMENTS

REVISIONS

0 150' 300'
GRAPHIC SCALE
1 INCH = 150 FEET

DATE: FEBRUARY 18, 2025

NOBIS PROJECT NO. 100661.000

DRAWN BY: KLR & MGD

CHECKED BY: JCN

CAD DRAWING FILE: 100661.000-C-200-SITE.dwg

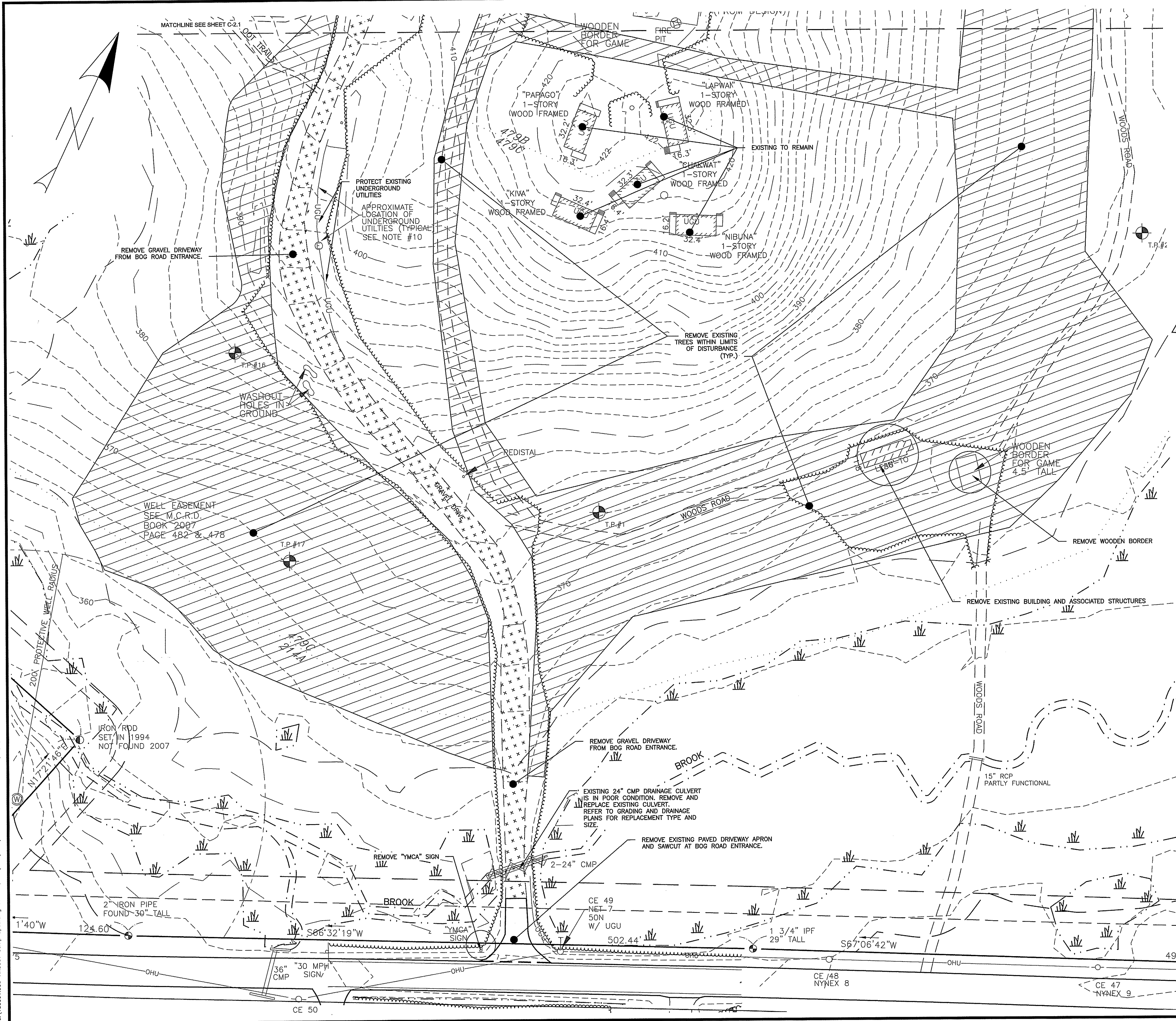
SHEET TITLE

SITE PLAN LAYOUT OVERVIEW

SHEET C-1.0

2025-015
APPROVED
UNDER THE PROVISIONS OF R.S.A. 674:35 & R.S.A. 674:36
CITY PLANNING BOARD
CITY OF CONCORD, NEW HAMPSHIRE
in accordance with vote of the board dated:
11/16/2025
Approved: [Signature]
Chair

J:\100661.000-NHSCOT Camp Spaulding Concord, NH\CAD\DWG\100661.000-C-100-DEMO.dwg 9/2/2025 3:35 PM

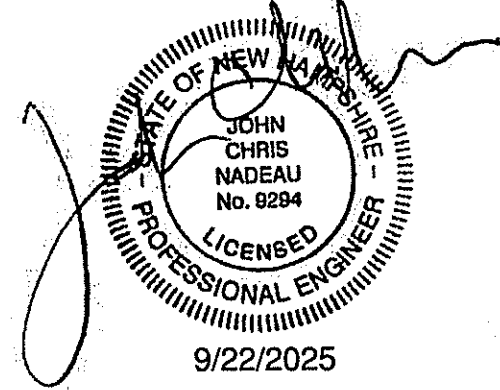


- NOTES:
1. REFER TO SURVEYOR'S PLAN FOR PLAN REFERENCES ADDITIONAL NOTES, EXISTING DRAINAGE AND SANITARY SEWER INVERT INFORMATION.
 2. LOCATION AND ELEVATION OF UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE TOWN FIRE AND POLICE DEPARTMENTS.
 4. DEMOLISH STRUCTURES AND SITE FEATURES AS SHOWN HEREON AND REMOVE PAVEMENT TO LIMITS INDICATED.
 5. CONTRACTOR IS RESPONSIBLE FOR OFF-SITE DISPOSAL OF CONSTRUCTION DEMOLITION DEBRIS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
 6. ABATEMENT OF HAZARDOUS MATERIALS SUCH AS LEAD PAINT, ASBESTOS, ETC., WILL BE PERFORMED BY A LICENSED CONTRACTOR PRIOR TO COMMENCEMENT OF DEMOLITION. A PRE-DEMOLITION SURVEY WILL BE PERFORMED BY CONTRACTOR PRIOR TO THE START OF DEMOLITION ACTIVITIES TO ENSURE PROPER DEMOLITION AND DISPOSAL PROCEDURES.
 7. DEMOLITION SEQUENCING WILL BE AS DIRECTED BY THE PRIME CONTRACTOR AND THE ARCHITECT.
 8. ALL WORK PERFORMED TO CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE MUNICIPAL CONSTRUCTION STANDARDS.
 9. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND FOR CONSTRUCTION SEQUENCING NOTES.
 10. CONTRACTOR WILL NOTIFY OWNER, ENGINEER, AND ARCHITECT IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 11. CONTRACTOR WILL PROTECT ALL EXISTING UTILITIES WITHIN THE LIMIT OF WORK. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES AND ALL COSTS ASSOCIATED WITH REPLACEMENT OR REPAIR WILL BE BORNE BY THE CONTRACTOR.
 12. CONTRACTOR WILL PROTECT ALL SITE FEATURES OUTSIDE LIMIT OF WORK SHOWN HEREON. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING SITE FEATURES AND ALL COSTS ASSOCIATED WITH REPLACEMENT OR REPAIR WILL BE BORNE BY THE CONTRACTOR.
 13. DEMOLITION/REMOVAL OF EXISTING STORMWATER STRUCTURES AND PIPING WILL BE CONDUCTED DRY CONDITIONS TO THE EXTENT PRACTICAL. INSTALLATION OF NEW STRUCTURES AND PIPE WILL BE CONDUCTED PRIOR TO DEMOLITION TO THE EXTENT PRACTICAL.
 14. PRIOR TO THE START OF CONSTRUCTION AND ISSUANCE OF ANY PERMITS, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH CITY OF CONCORD ENGINEERING SERVICES TO DISCUSS SITE INSPECTIONS, ASSOCIATED FEES, SCHEDULE ETC.
 15. EROSION CONTROL SYSTEMS AS SHOWN ON SHEETS C-5.0, 5.1, 5.2, AND 5.3 SHALL BE IMPLEMENTED IN PLACE PRIOR TO CONSTRUCTION AND THE REMOVAL OF THE EXISTING 24-INCH DRIVEWAY CULVERTS NEAR BOG ROAD.



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9/22/2025

ISSUED FOR
CONSTRUCTION

NHSCOT
HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

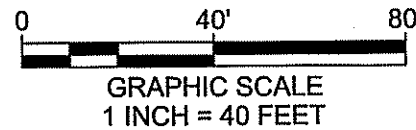
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MAP 322 / LOT 59

OWNER(S):
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25 TRIANGLE DRIVE SUITE 4
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REVISIONS



0 40' 80'
GRAPHIC SCALE
1 INCH = 40 FEET

DATE: FEBRUARY 18, 2025

NOBIS PROJECT NO. 100661.000

DRAWN BY: KLR & MGD

CHECKED BY: JCN

CAD DRAWING FILE:
100661.000-C-100-DEMO.dwg

SHEET TITLE

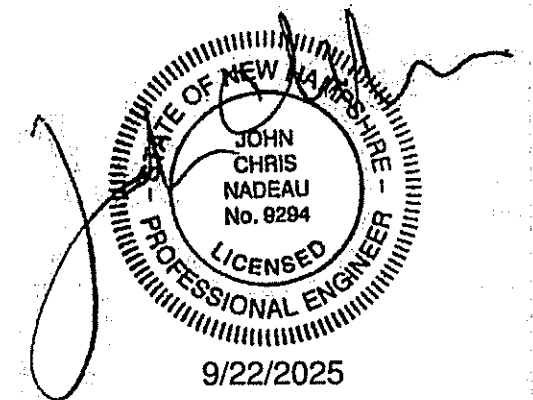
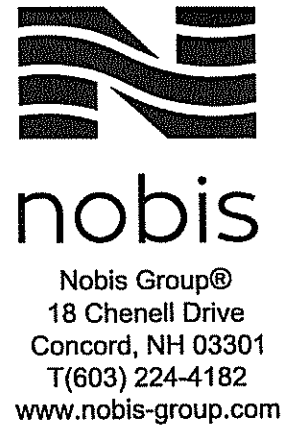
DEMOLITION
PLAN

SHEET
C-2.0

J:\100661.000-NHSCOT Camp Spaulding Concord, NH\CAO.DWG\100661.000-C-100-DEMO.dwg 9/2/2023 3:36 PM



- NOTES:**
1. REFER TO SURVEYOR'S PLAN FOR PLAN REFERENCES ADDITIONAL NOTES, EXISTING DRAINAGE AND SANITARY SEWER INVERT INFORMATION.
 2. LOCATION AND ELEVATION OF UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE TOWN FIRE AND POLICE DEPARTMENTS.
 4. DEMOLISH STRUCTURES AND SITE FEATURES AS SHOWN HEREON AND REMOVE PAVEMENT TO LIMITS INDICATED.
 5. CONTRACTOR IS RESPONSIBLE FOR OFF-SITE DISPOSAL OF CONSTRUCTION DEMOLITION DEBRIS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
 6. ABATEMENT OF HAZARDOUS MATERIALS SUCH AS LEAD PAINT, ASBESTOS, ETC., WILL BE PERFORMED BY A LICENSED CONTRACTOR PRIOR TO COMMENCEMENT OF DEMOLITION. A PRE-DEMOLITION SURVEY WILL BE PERFORMED BY CONTRACTOR PRIOR TO THE START OF DEMOLITION ACTIVITIES TO ENSURE PROPER DEMOLITION AND DISPOSAL PROCEDURES.
 7. DEMOLITION SEQUENCING WILL BE AS DIRECTED BY THE PRIME CONTRACTOR AND THE ARCHITECT.
 8. ALL WORK PERFORMED TO CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE MUNICIPAL CONSTRUCTION STANDARDS.
 9. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND FOR CONSTRUCTION SEQUENCING NOTES.
 10. CONTRACTOR WILL NOTIFY OWNER, ENGINEER, AND ARCHITECT IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 11. CONTRACTOR WILL PROTECT ALL EXISTING UTILITIES WITHIN THE LIMIT OF WORK. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES AND ALL COSTS ASSOCIATED WITH REPLACEMENT OR REPAIR WILL BE BORNE BY THE CONTRACTOR.
 12. CONTRACTOR WILL PROTECT ALL SITE FEATURES OUTSIDE LIMIT OF WORK SHOWN HEREON. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING SITE FEATURES AND ALL COSTS ASSOCIATED WITH REPLACEMENT OR REPAIR WILL BE BORNE BY THE CONTRACTOR.
 13. DEMOLITION/REMOVAL OF EXISTING STORMWATER STRUCTURES AND PIPING WILL BE CONDUCTED DRY CONDITIONS TO THE EXTENT PRACTICAL. INSTALLATION OF NEW STRUCTURES AND PIPE WILL BE CONDUCTED PRIOR TO DEMOLITION TO THE EXTENT PRACTICAL.
 14. PRIOR TO THE START OF CONSTRUCTION AND ISSUANCE OF ANY PERMITS, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH CITY OF CONCORD ENGINEERING SERVICES TO DISCUSS SITE INSPECTIONS, ASSOCIATED FEES, SCHEDULE, ETC.
 15. EROSION CONTROL SYSTEMS AS SHOWN ON SHEETS C-5.0, 5.1, 5.2, AND 5.3 SHALL BE IMPLEMENTED IN PLACE PRIOR TO CONSTRUCTION AND THE REMOVAL OF THE EXISTING 24-INCH DRIVEWAY CULVERTS NEAR BOG ROAD



ISSUED FOR
CONSTRUCTION

NHSCOT HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

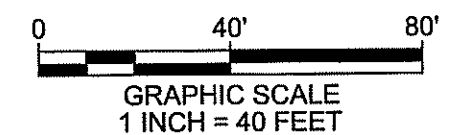
TAX MAP:
MAP 322 / LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

NO.	DATE	DESCRIPTION
1	09/03/2025	CITY OF CONCORD AND AOT COMMENTS
2	06/20/2025	CITY OF CONCORD AND AOT COMMENTS
3	04/28/2025	NHFG COMMENTS

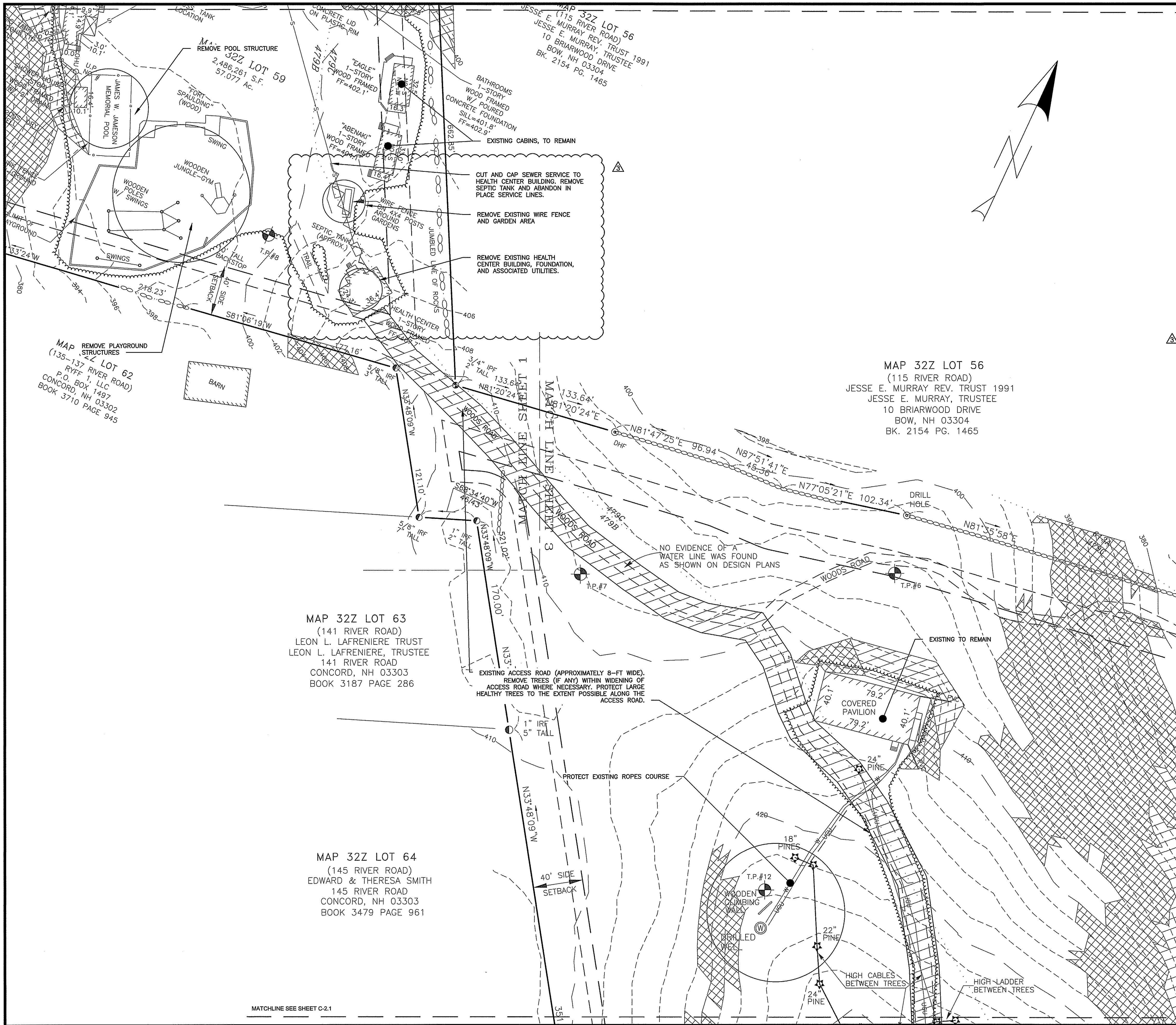
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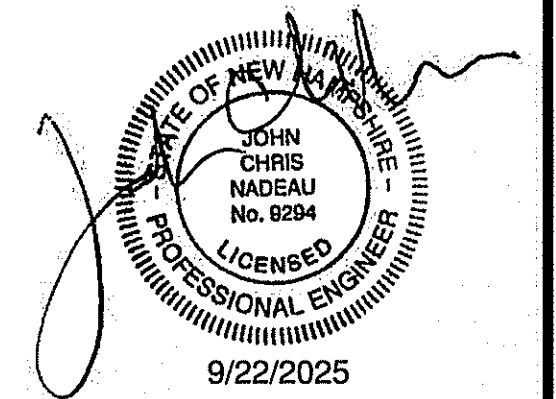
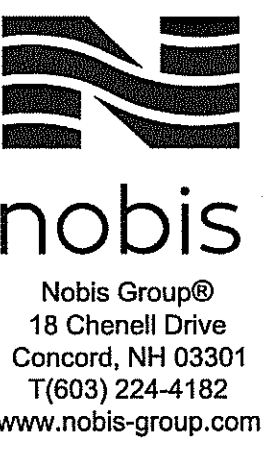
DATE:	FEBRUARY 18, 2025
NOBIS PROJECT NO.	100661.000
DRAWN BY:	KLR & MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-100-DEMO.dwg
SHEET TITLE	

DEMOLITION PLAN

SHEET
C-2.1



- NOTES:
1. REFER TO SURVEYOR'S PLAN FOR PLAN REFERENCES ADDITIONAL NOTES, EXISTING DRAINAGE AND SANITARY SEWER INVERT INFORMATION.
 2. LOCATION AND ELEVATION OF UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE TOWN FIRE AND POLICE DEPARTMENTS.
 4. DEMOLISH STRUCTURES AND SITE FEATURES AS SHOWN HEREON AND REMOVE PAVEMENT TO LIMITS INDICATED.
 5. CONTRACTOR IS RESPONSIBLE FOR OFF-SITE DISPOSAL OF CONSTRUCTION DEMOLITION DEBRIS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
 6. ABATEMENT OF HAZARDOUS MATERIALS SUCH AS LEAD PAINT, ASBESTOS, ETC., WILL BE PERFORMED BY A LICENSED CONTRACTOR PRIOR TO COMMENCEMENT OF DEMOLITION. A PRE-DEMOLITION SURVEY WILL BE PERFORMED BY CONTRACTOR PRIOR TO THE START OF DEMOLITION ACTIVITIES TO ENSURE PROPER DEMOLITION AND DISPOSAL PROCEDURES.
 7. DEMOLITION SEQUENCING WILL BE AS DIRECTED BY THE PRIME CONTRACTOR AND THE ARCHITECT.
 8. ALL WORK PERFORMED TO CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE MUNICIPAL CONSTRUCTION STANDARDS.
 9. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND FOR CONSTRUCTION SEQUENCING NOTES.
 10. CONTRACTOR WILL NOTIFY OWNER, ENGINEER, AND ARCHITECT IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 11. CONTRACTOR WILL PROTECT ALL EXISTING UTILITIES WITHIN THE LIMIT OF WORK. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES AND ALL COSTS ASSOCIATED WITH REPLACEMENT OR REPAIR WILL BE BORNE BY THE CONTRACTOR.
 12. CONTRACTOR WILL PROTECT ALL SITE FEATURES OUTSIDE LIMIT OF WORK SHOWN HEREON. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING SITE FEATURES AND ALL COSTS ASSOCIATED WITH REPLACEMENT OR REPAIR WILL BE BORNE BY THE CONTRACTOR.
 13. DEMOLITION/REMOVAL OF EXISTING STORMWATER STRUCTURES AND PIPING WILL BE CONDUCTED DRY CONDITIONS TO THE EXTENT PRACTICAL. INSTALLATION OF NEW STRUCTURES AND PIPE WILL BE CONDUCTED PRIOR TO DEMOLITION TO THE EXTENT PRACTICAL.
 14. PRIOR TO THE START OF CONSTRUCTION AND ISSUANCE OF ANY PERMITS, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH CITY OF CONCORD ENGINEERING SERVICES TO DISCUSS SITE INSPECTIONS, ASSOCIATED FEES, SCHEDULE, ETC.
 15. EROSION CONTROL SYSTEMS AS SHOWN ON SHEETS C-5.0, 5.1, 5.2, AND 5.3 SHALL BE IMPLEMENTED IN PLACE PRIOR TO CONSTRUCTION AND THE REMOVAL OF THE EXISTING 24-INCH DRIVEWAY CULVERTS NEAR BOG ROAD.



ISSUED FOR
CONSTRUCTION

NHSCOT HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

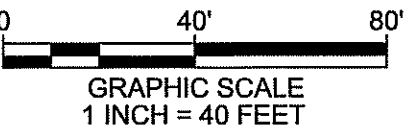
TAX MAP:
MAP 32Z/LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

NO.	DATE	DESCRIPTION
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2	06/20/2025	CITY OF CONCORD AND AOT COMMENTS
3	04/28/2025	NHFG COMMENTS

REVISIONS

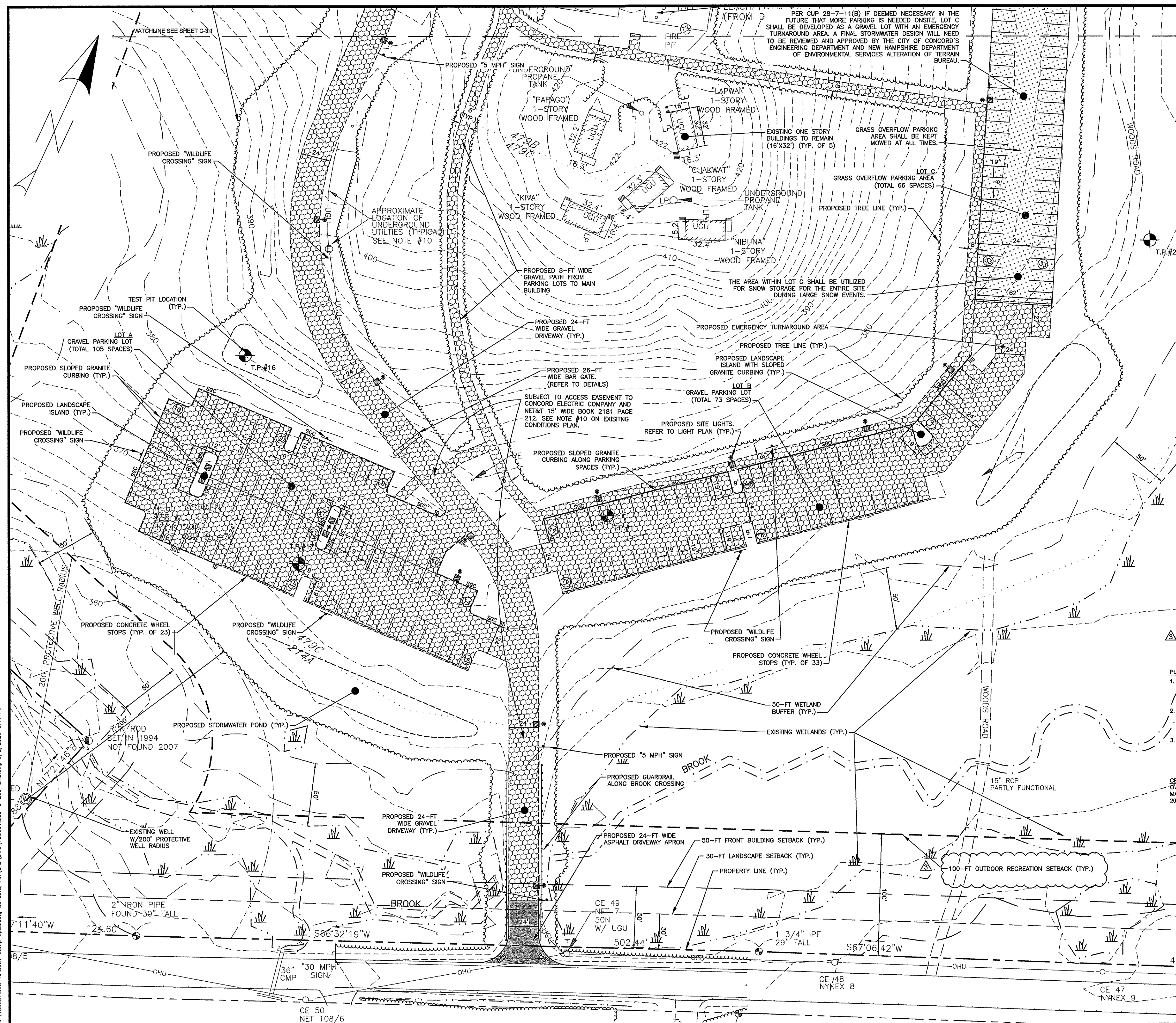


DATE: FEBRUARY 18, 2025
NOBIS PROJECT NO. 100661.000
DRAWN BY: KLR & MGD
CHECKED BY: JCN
CAD DRAWING FILE:
100661.000-C-100-DEMO.dwg

SHEET TITLE

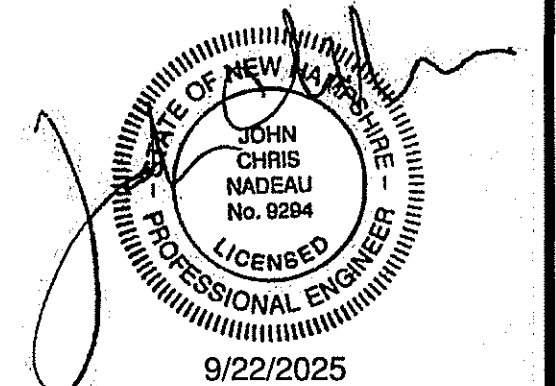
DEMOLITION PLAN

SHEET
C-2.2



- NOTES:
1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE PROPOSED LAYOUT FOR NEW PARKING, DRIVEWAY, AND ACCESS ROADS FOR THE NHCST HEADQUARTERS.
 2. DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR TO USE LIGATION WITH CAUTION REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND / OR SPECIFICATIONS, THE ENGINEER WILL BE NOTIFIED BY THE CONTRACTOR.
 3. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DISC 84F6 (1-888-DIG-84F6) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
 4. A MANDATORY PRE-CONSTRUCTION MEETING WILL NEED TO BE HELD PRIOR TO ISSUANCE OF ANY PERMITS TO DISCUSS INSPECTION FEES, CONSTRUCTION SCHEDULE, ETC.
 5. REFER TO CONSTRUCTION DETAIL SHEETS FOR ALL APPLICABLE SITE DETAILS.
 6. CONTRACTOR WILL NOTIFY ENGINEERS IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 7. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF APPROVAL, ALL ITEMS STATED IN SECTION 12.08 ELECTRONIC SUBMISSION OF THE CITY OF CONCORD'S SITE PLAN REQUIREMENTS SHALL BE PROVIDED TO THE PLANNING DEPARTMENT AND CITY ENGINEER.
 8. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY DIGITAL AS-BUILT DRAWINGS SHALL BE PROVIDED CONFORMING TO THE CITY ENGINEERING DIVISIONS AS-BUILT CHECKLIST.
 9. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF APPROVAL, DIGITAL INFORMATION FROM THE SITE PLAN DRAWINGS SHALL BE PROVIDED TO THE CITY ENGINEER FOR INCORPORATION INTO THE CITY OF CONCORD'S GEOGRAPHIC INFORMATION SYSTEM (GIS) AND TAX MAPS AS SPECIFIED IN SECTION 12.08 (SPR).
 10. THE FOLLOWING STATE AND FEDERAL PERMITS ARE REQUIRED FOR THIS PROJECT.
 - 10.1. NHDES ALTERATION OF TERRAIN PERMIT
 - 10.2. NHDES CULVERT PERMIT
 - 10.3. NHDES CULVERT PERMIT (REMENT NOTIFICATION (SPN)
 - 10.4. USEPA NPDES CONSTRUCTION GENERAL PERMIT INCLUDING NOTICE OF INTENT (NOI) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
 11. THE PROJECT IS TO BE CONSTRUCTED IN ONE PHASE.
 12. A PORTION OF THE PROPERTY LIES WITHIN THE 10 YEAR FLOOD HAZARD AREA AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR THE CITY OF CONCORD, MAP NO. 33013C0338E AND 33013C0528E, WITH EFFECTIVE DATE APRIL 19, 2010.
 13. THE WETLANDS SHOWN HEREON WERE DELINEATED IN THE FIELD UNDER SUPERVISION OF TIMOTHY F. BERNIER, USF 8052, IN APRIL 2022 IN ACCORDANCE WITH ENW-406.01.
 14. THE SITE IS SERVICED BY PRIVATE UTILITIES FOR WATER AND SEWER.
 15. SEPTIC LEACH FIELD #1 AND 2 ARE SHOWN BASED ON AS-BUILT SEPTIC DESIGN PLANS ON FILE WITH NHDES AND SURFACE EVIDENCE FOLLOWS.
 - 15.1. LEACH FIELD #1 CONSTRUCTION APPROVAL RCA1998006945, OPERATIONAL APPROVAL 510100
 - 15.2. LEACH FIELD #2 CONSTRUCTION APPROVAL RCA1998006958, OPERATIONAL APPROVAL ON 510100.
 - 15.3. LEACH FIELD #3 NO CONSTRUCTION APPROVAL.
 - 15.4. THE SEPTIC SYSTEMS SERVING THE OLDER ORIGINAL CAMP MAY HAVE BEEN INSTALLED PRIOR TO THEIR INSTALLATION IN ACCORDANCE WITH THE "IN KIND" RULES IN PLACE AT THE TIME.
 16. THERE ARE TWO WATER SUPPLY WELLS THAT SERVICE THE SITE.
 - 16.1. ID: 0507050-001 "CAMP SPAULDING/DINING HALL"
 - 16.2. ID: 0507010-001 "CAMP SPAULDING/RIVERSIDE"
 17. THERE WAS AN EASEMENT GRANTED TO ENERGY NORTH PROPANE, INC. FOR INGRESS, EGRESS, AND MAINTENANCE OF EQUIPMENT IN CAMP SPAULDING. SEE MCRD BOOK 2192 PAGE 272.
 18. THERE WAS AN EASEMENT GRANTED TO CONCORD ENERGY COMPANY AND NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY DREW BELL ATLANTIC NEW ENGLAND. THE EASEMENT IS FOR INGRESS, EGRESS, MAINTENANCE, AND INSTALLATION OF EQUIPMENT AND IS 15' WIDE ALONG ACCESS ROAD FROM UTILITY STREET TO BOG ROAD. SEE MCRD BOOK 2191 PAGE 212.
 19. THERE WAS A NEGATIVE EASEMENT PLACED ON LOT 46 IN FAVOR OF THE OWNERS OF MAP 107 BLOCK 2 LOTS 5,6,7,8,15 &49 AND MAP 107 BLOCK 1 LOT 6 AND MAP 103 BLOCK 2 LOT 31 (FORMER CITY MAP & LOT NUMBERS). THE EASEMENT RESTRICTS ACTIVITIES ON THE PROPERTY FROM JANUARY 1, 2015 PAGE 522.
 20. THE SITE IS NOT SERVICED BY MUNICIPAL UTILITIES.
 21. THE SITE DOES NOT FALL WITHIN THE AQUIFER PROTECTION DISTRICT.
 22. A PORTION OF THE SITE FALLS WITHIN THE SHORELAND PROTECTION (SP) OVERLAY DISTRICT. NO DEVELOPMENT IS PROPOSED WITHIN THIS AREA.
 23. THERE ARE NO PUBLIC SPACES, PARKS, OR HISTORIC STRUCTURES ON SITE.
 24. NO NEW UTILITIES ARE PROPOSED.
 25. NO ROOF TOP OR GROUND MOUNTED MECHANICAL EQUIPMENT IS PROPOSED.
 26. NO OUTSIDE STORAGE IS PROPOSED.
 27. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.
 28. NO NEW SOLID WASTE DISPOSAL FACILITIES ARE PROPOSED AND THE EXISTING SOLID WASTE FACILITY WILL BE UTILIZED.
 29. ALL DRIVEWAYS, ACCESS ROADS, AND TURNAROUNDS SHALL BE DESIGNED AND MAINTAINED TO PROPERLY WITHSTAND ALL LOADS OF FIRE APPARATUS AND SHALL BE PROVIDED WITH AN ALL-WEATHER DRIVING SURFACE.

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ISSUED FOR
CONSTRUCTION

NHSCOT
HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

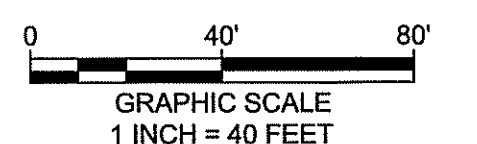
TAX MAP:
MAP 32Z / LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

	09/03/2025	CITY OF CONCORD AND AOT COMMENTS
	06/20/2025	CITY OF CONCORD AND AOT COMMENTS
	04/28/2025	NHFG COMMENTS
NO.	DATE	DESCRIPTION

REVISIONS



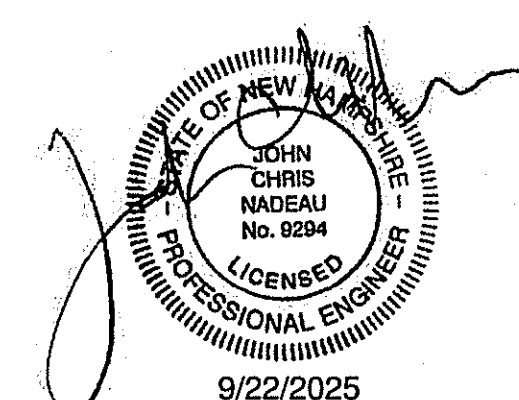
DATE:	FEBRUARY 18, 2025
NOBIS PROJECT NO.	100661.000
DRAWN BY:	KLR & MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-200-SITE.dwg
SHEET TITLE	

PROPOSED SITE PLAN LAYOUT

SHEET
C-3.0



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HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

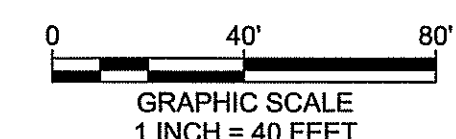
TAX MAP:
MAP 32Z / LOT 59

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REVISIONS



DATE: FEBRUARY 18, 2025

NOBIS PROJECT NO. 100661.000

DRAWN BY: KLR & MGD

CHECKED BY: JGN

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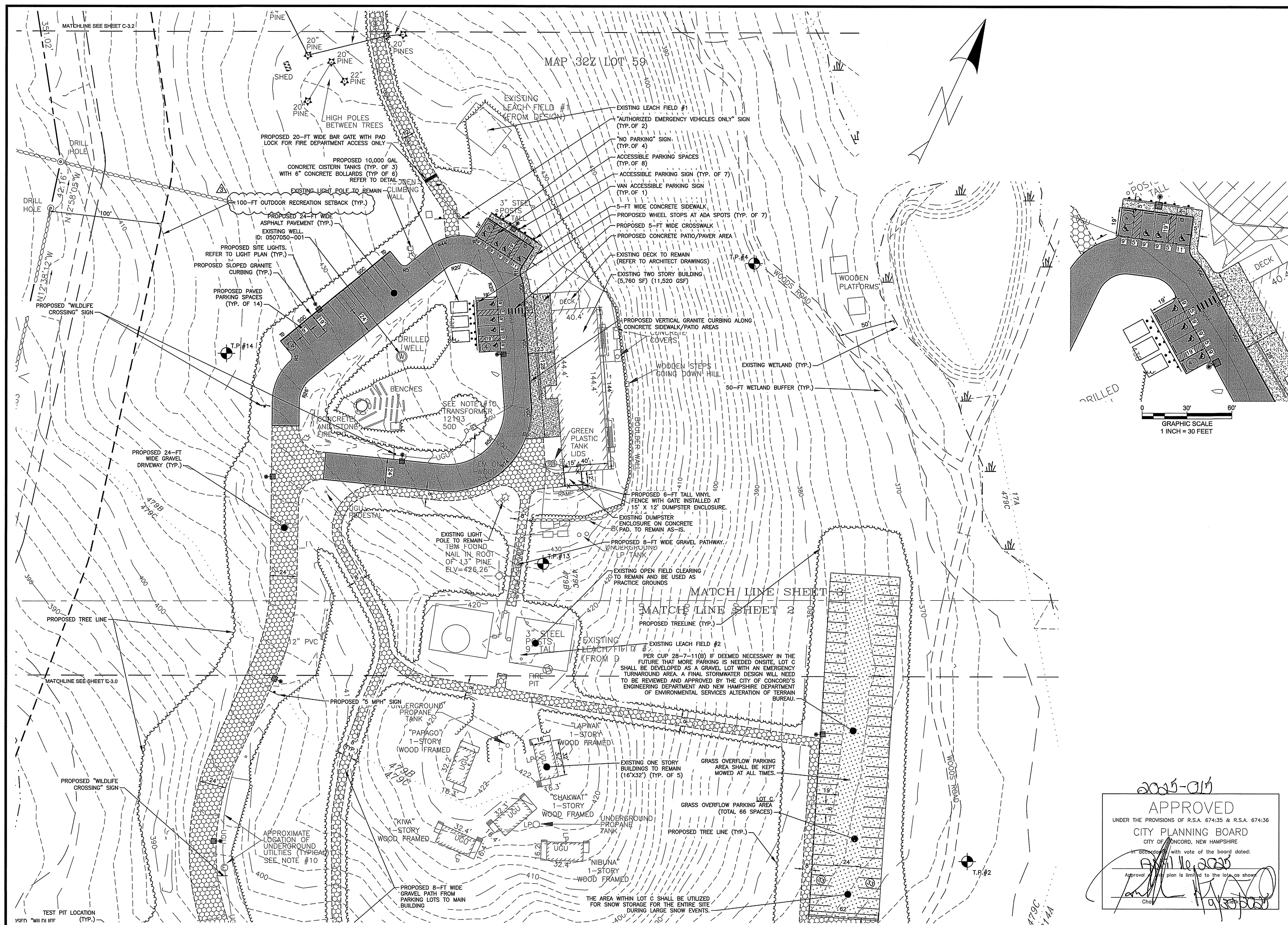
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CLIFF HILL

PROPOSED SITE PLAN LAYOUT

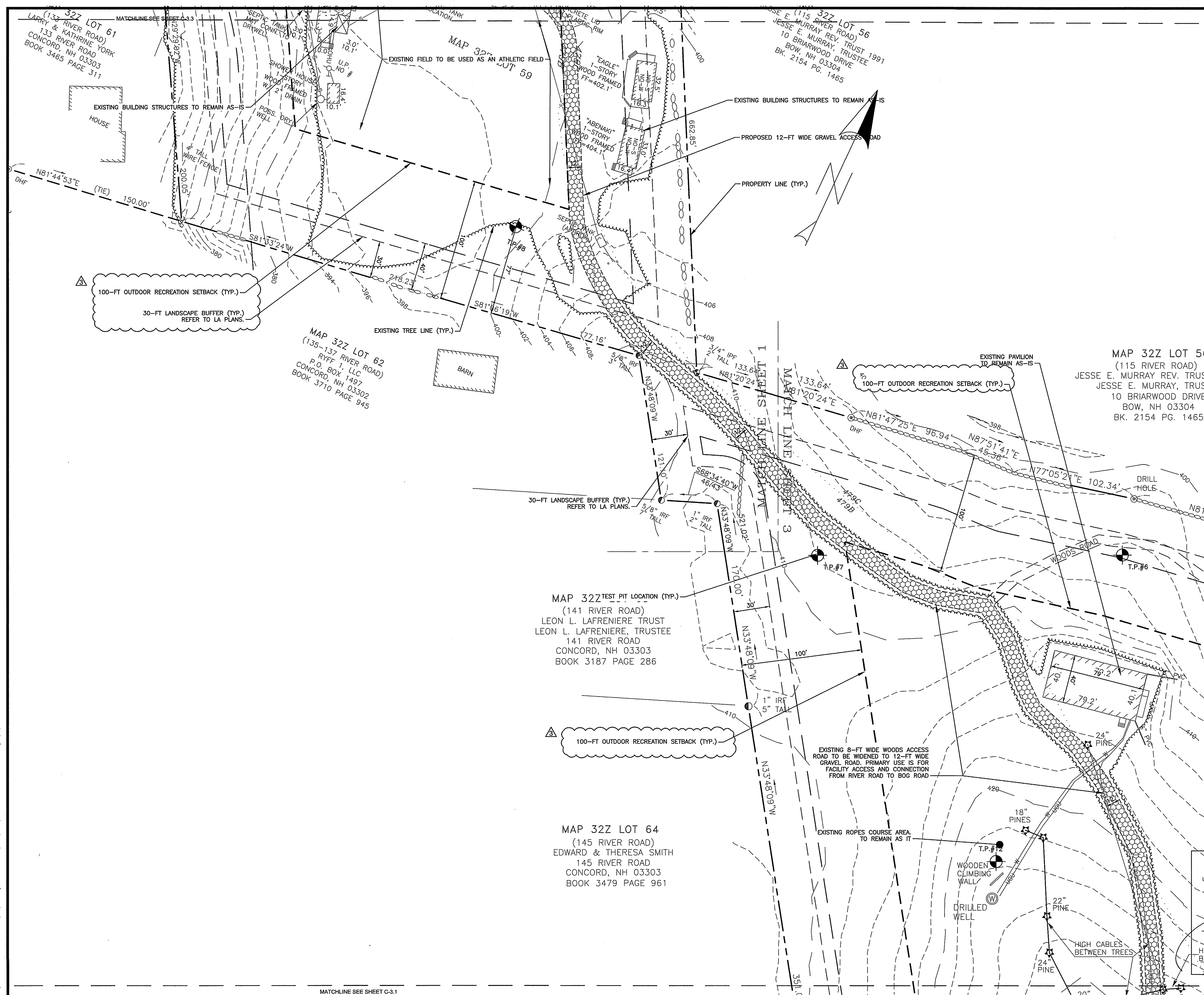
SHEET

C-3.1

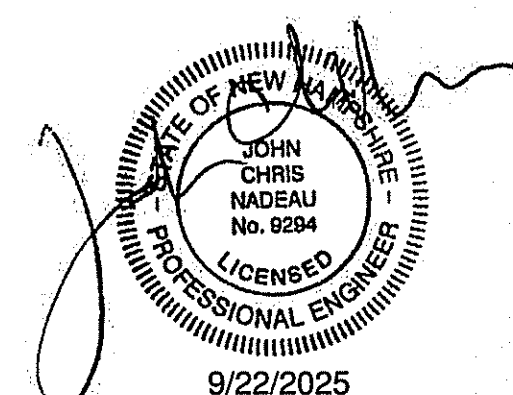


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NHSCOT HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 32Z / LOT 59

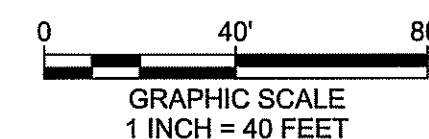
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REVISIONS

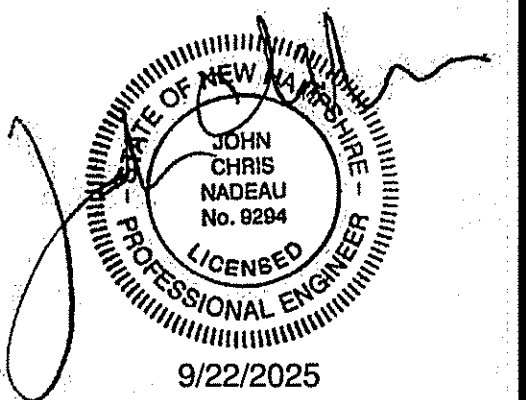


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NOBIS PROJECT NO.	100661.000
DRAWN BY:	KLR & MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-200-SITE.dwg
SHEET TITLE	

PROPOSED SITE PLAN LAYOUT

SHEET
C-3.2

2025-010
APPROVED
UNDER THE PROVISIONS OF R.S.A. 674:35 & R.S.A. 674:36
CITY PLANNING BOARD
CITY OF CONCORD, NEW HAMPSHIRE
In accordance with vote of the board dated:
Approval of this plan is limited to the site as shown
HIC
BE
Chair



ISSUED FOR
CONSTRUCTION

**NHSCOT
HEADQUARTERS**

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

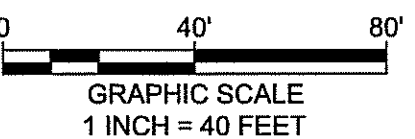
TAX MAP:
MAP 322 / LOT 59

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REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

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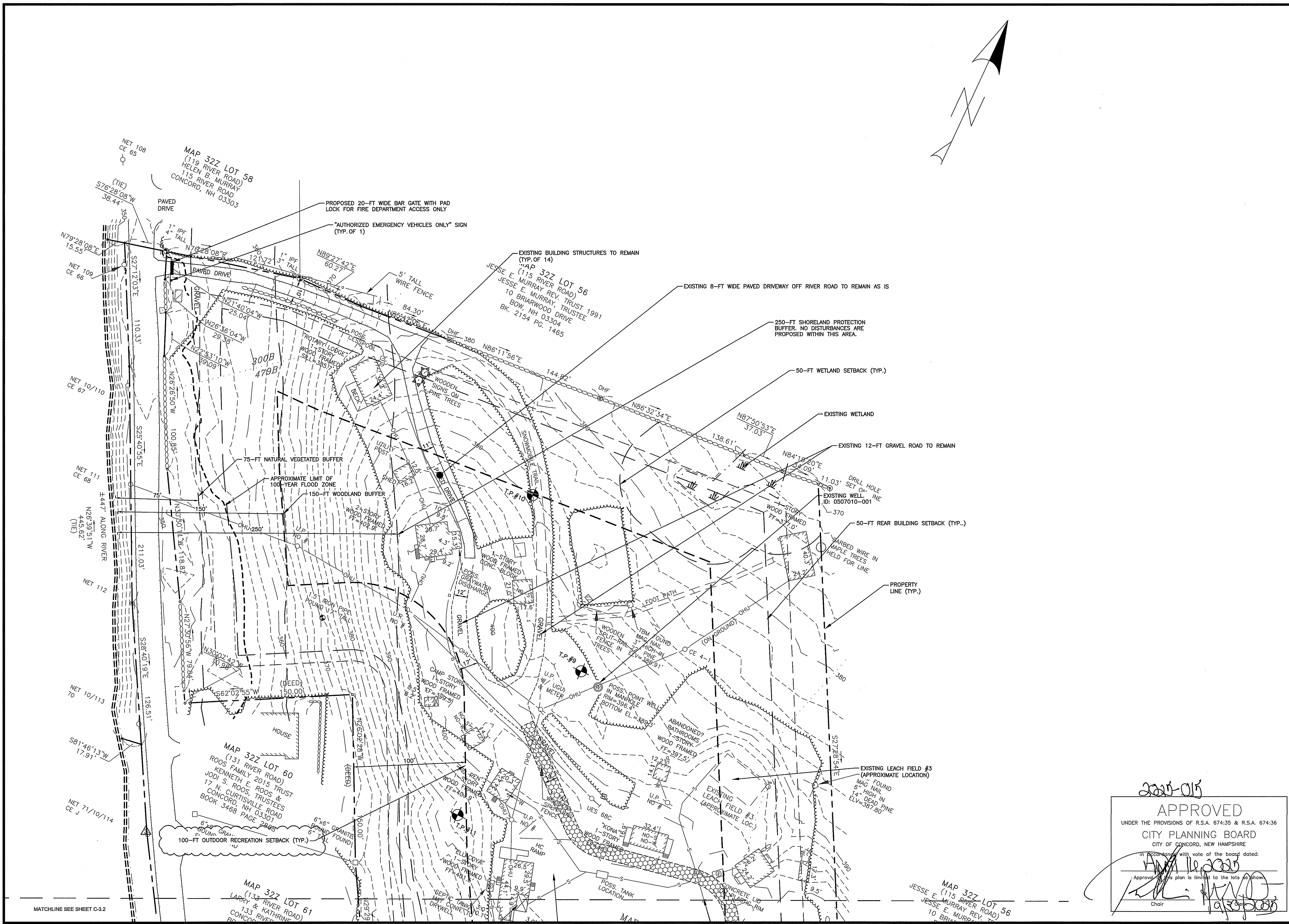
REVISIONS



DATE:	FEBRUARY 18, 2025
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SHEET TITLE	

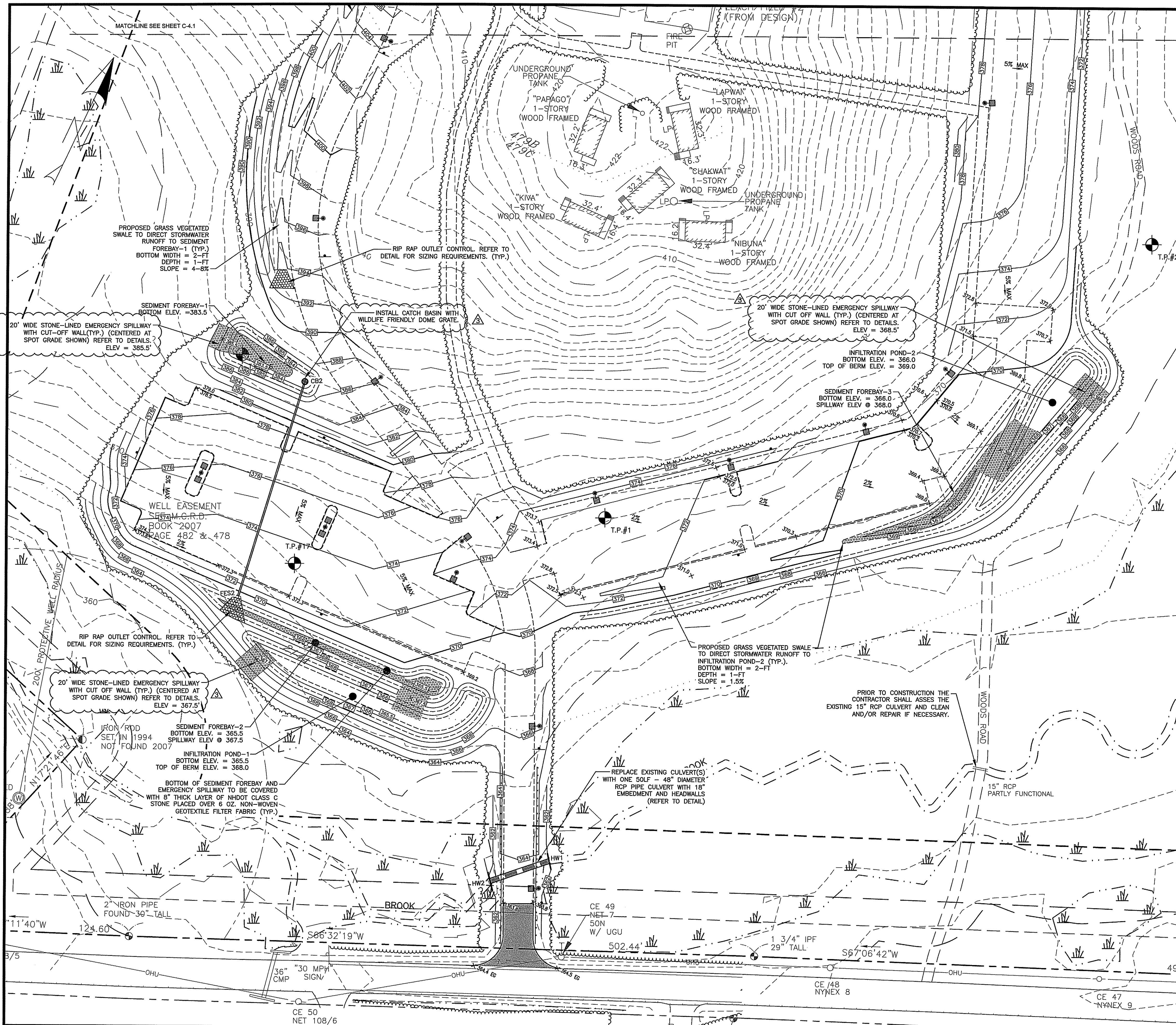
**PROPOSED SITE
PLAN LAYOUT**

SHEET
C-3.3



APPROVED
UNDER THE PROVISIONS OF R.S.A. 674:35 & R.S.A. 674:36
CITY PLANNING BOARD
CITY OF CONCORD, NEW HAMPSHIRE
in accordance with vote of the board dated:
February 18, 2025
Approved this plan is limited to the lots as shown.
Chair

J:\100661.000-NHSCOT Camp Spaulding Concord, NH\DWG\DWG100661.000-C-300-G&D.dwg 9/7/2023 4:23 PM



- NOTES:
1. REFER TO SURVEYOR'S PLAN FOR BASE PLAN REFERENCES AND ADDITIONAL NOTES.
 2. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE SURVEY PLAN AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
 3. CONTRACTOR WILL NOTIFY OWNER & ENGINEER IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 4. SPOT ELEVATIONS SHOWN AT BUILDING CORNERS ARE PROPOSED GROUND ELEVATIONS.
 5. FINISH WALK AND CURB ELEVATIONS WILL BE 6" ABOVE FINISH PAVEMENT.
 6. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUND BREAK.
 7. LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS FROM THE UTILITY COMPANIES AND FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
 8. ALL WORK ON SITE, ALL UTILITY WORK AND ALL WORK WITH CITY R.O.W. WILL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CONCORD SPECIFICATIONS, LATEST EDITION.
 9. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
 10. ALL STORM DRAIN PIPING WITH LESS THAN 4.0 FEET OF COVER WILL BE OVERLAID WITH 2" THICK RIGID INSULATION FOR THE FULL WIDTH OF PIPE TRENCH.
 11. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.
 12. CATCH BASINS AND OUTLET CONTROL STRUCTURES SHOULD NOT CONTAIN SUMPS AND HAVE GRATE OPENINGS LARGER THAN 2" X 2" - NHFG REQUIREMENT.
 13. RIP RAP EMERGENCY SPILLWAYS SHOULD BE FILLED WITH NATIVE WETLAND SEED MIX PER NHFG (REFER TO DETAILS).
 14. PROPOSED GRADES WITHIN ACCESSIBLE PARKING AREA SHOULD NOT EXCEED 2% IN ANY DIRECTION.
 15. CONCRETE SIDEWALKS AND PATIO SLOPES:
RUNNING SLOPES = MAX 5%
TIP DOWN SLOPES = MAX 8.3%
CROSS SLOPES = MAX 2%

DRAINAGE SCHEDULE

CB1
RIM = 419.0
INV. OUT = 414.4
L = 73 LF - 12" HDPE (TO FES1)
S = 0.005 FT/FT
NO SUMP

FES1
INV. OUT = 414.0

CB2
RIM = 383.5
INV. OUT = 379.0
L = 178 LF - 18" HDPE (TO FES2)
S = 0.062 FT/FT
NO SUMP

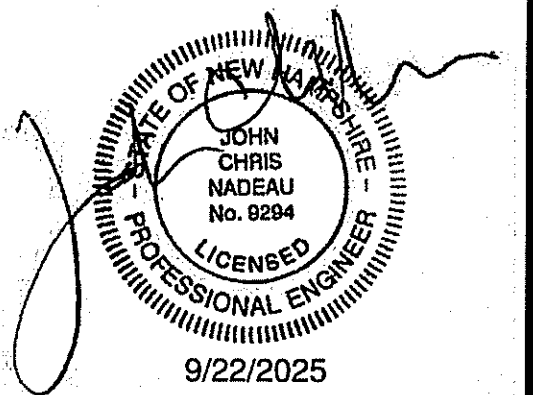
FES2
INV. OUT = 368.0

HW1
INV IN = 388.5
L = 50 LF - 48" RCP (18" EMBEDMENT)
S = 0.01 FT/FT

HW2
INV OUT = 358.0



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NHSCOT HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

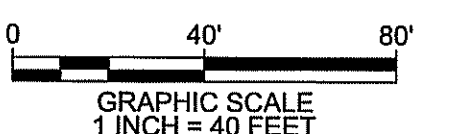
TAX MAP:
MAP 322 / LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

NO.	DATE	DESCRIPTION
1	09/03/2025	CITY OF CONCORD AND AOT COMMENTS
2	06/20/2025	CITY OF CONCORD AND AOT COMMENTS
3	04/28/2025	NHFG COMMENTS

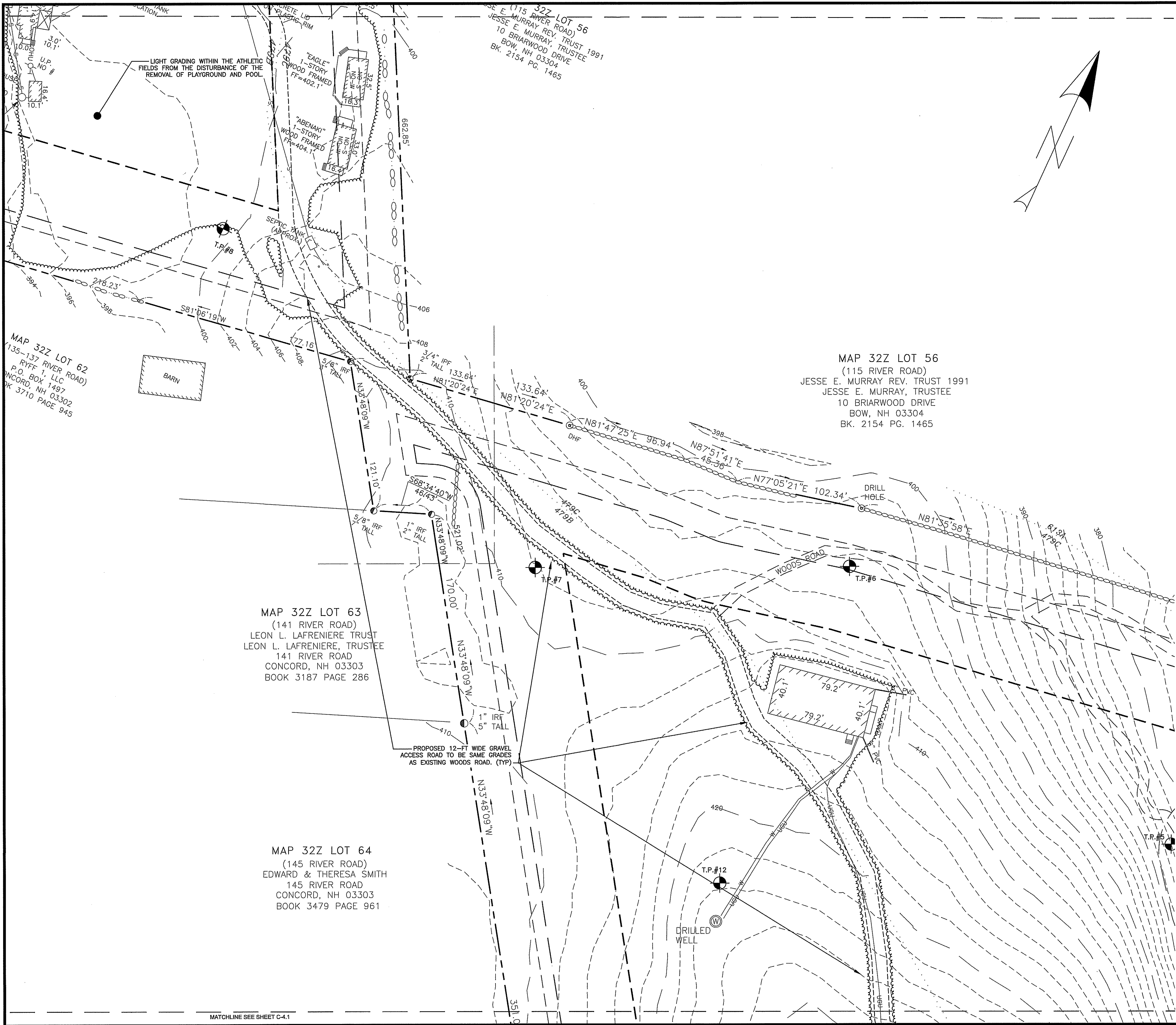
REVISIONS



DATE:	FEBRUARY 18, 2025
NOBIS PROJECT NO.	100661.000
DRAWN BY:	KLR & MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-300-G&D.dwg
SHEET TITLE	

GRADING AND DRAINAGE PLAN

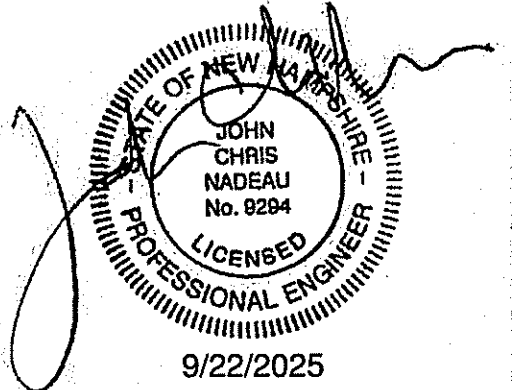
SHEET
C-4.0



- NOTES:
1. REFER TO SURVEYOR'S PLAN FOR BASE PLAN REFERENCES AND ADDITIONAL NOTES.
 2. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE SURVEY PLAN AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
 3. CONTRACTOR WILL NOTIFY OWNER & ENGINEER IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 4. SPOT ELEVATIONS SHOWN AT BUILDING CORNERS ARE PROPOSED GROUND ELEVATIONS.
 5. FINISH WALK AND CURB ELEVATIONS WILL BE 6" ABOVE FINISH PAVEMENT.
 6. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUND BREAK.
 7. LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS FROM THE UTILITY COMPANIES AND FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
 8. ALL WORK ON SITE, ALL UTILITY WORK AND ALL WORK WITH CITY R.O.W. WILL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CONCORD SPECIFICATIONS, LATEST EDITION.
 9. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
 10. ALL STORM DRAIN PIPING WITH LESS THAN 3.0 FEET OF COVER WILL BE OVERLAIN WITH 2" THICK RIGID INSULATION FOR THE FULL WIDTH OF PIPE TRENCH.
 11. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.



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9/22/2025

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NHSCOT
HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 32Z / LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

09/03/2025	CITY OF CONCORD AND AOT COMMENTS
06/20/2025	CITY OF CONCORD AND AOT COMMENTS
04/28/2025	NHFG COMMENTS

NO.	DATE	DESCRIPTION
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REVISIONS	
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GRAPHIC SCALE 1 INCH = 40 FEET	

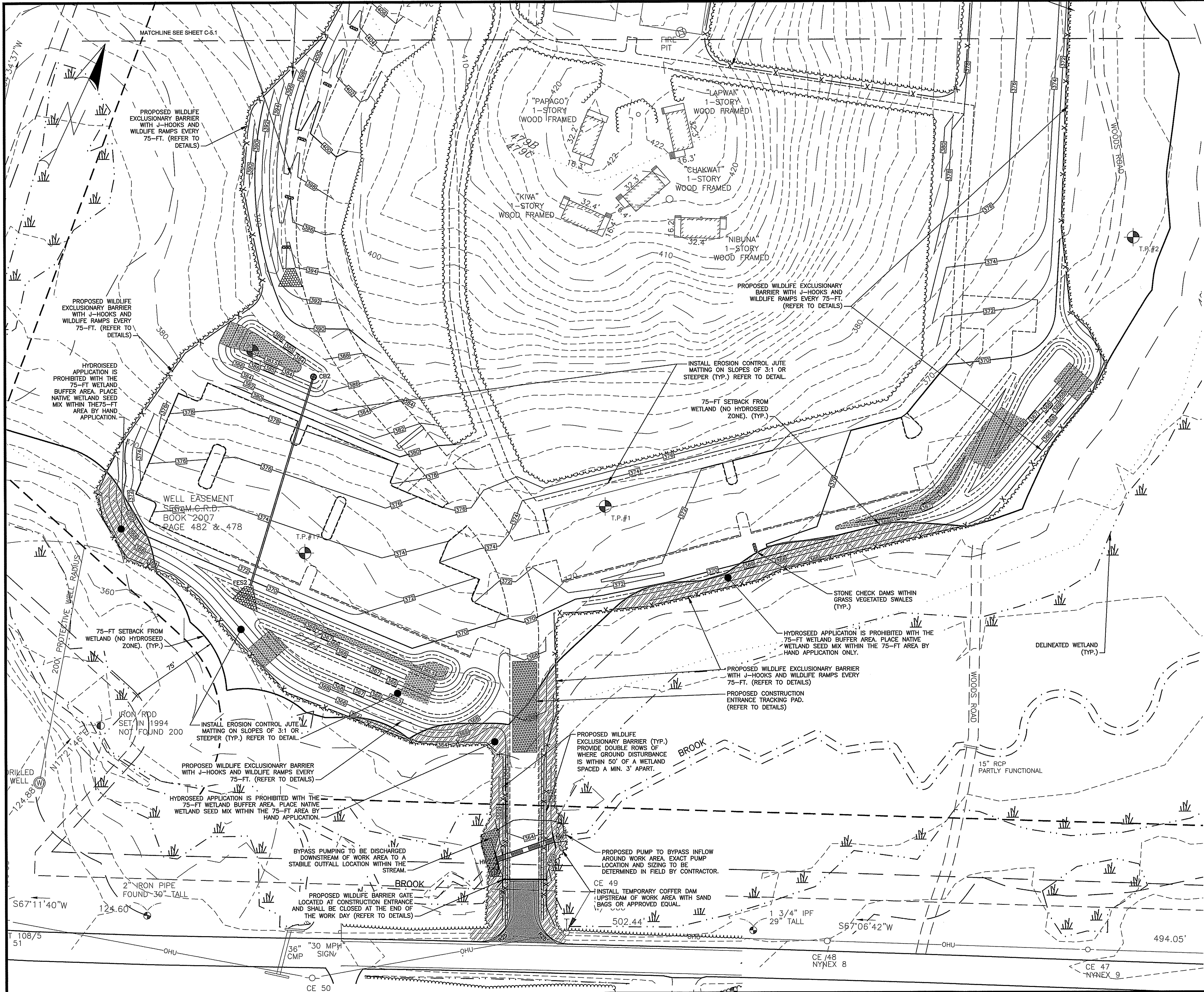
DATE:	FEBRUARY 18, 2025
NOBIS PROJECT NO.	100661.000
DRAWN BY:	KLR & MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-300-G&D.dwg

SHEET TITLE

GRADING AND
DRAINAGE PLAN

SHEET
C-4.2

\\V00661.000-NHSCOT Camp Spaulding Concord, NH\CAD\DWG\100661.000-C-320-EROS.dwg 9/2/2025 4:23 PM



- NOTES:**
1. THIS PLAN IS NOT INTENDED TO SHOW PERMANENT DRAINAGE DESIGNS AND TO BE USED FOR TEMPORARY EROSION AND SEDIMENT CONTROL ONLY.
 2. CONTRACTOR TO GRADE ACTIVE EXCAVATION AREAS TO ALLOW MAXIMUM INFILTRATION OF STORMWATER AND MINIMIZE RUNOFF FROM DISTURBED AREAS.
 3. DISTURBANCES OF AREAS TO BE MINIMIZED. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS DURING THE GROWING SEASON. AREAS WHICH WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE SHALL BE TEMPORARILY SEEDED AND MULCHED. ALL AREAS SHALL BE STABILIZED WITH SEED AND MULCH AND TACKIFIER WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE AND PRIOR TO THE END OF THE GROWING SEASON.
 4. FOR FURTHER INFORMATION ON BEST MANAGEMENT PRACTICES SEE COMPLETE PLAN SET AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT PREPARED BY NOBIS ENGINEERING, INC. (DATE).
 5. USE TEMPORARY EROSION AND SEDIMENT CONTROL PRODUCTS THAT EITHER DO NOT CONTAIN NETTING, OR THAT CONTAIN NETTING MANUFACTURED FROM 100% BIODEGRADABLE NON-PLASTIC MATERIALS SUCH AS JUTE, SISAL, OR COIR FIBER. DEGRADABLE, PHOTODEGRADABLE, UV-DEGRADABLE, OXO-DEGRADABLE, OR OXO-BIODEGRADABLE PLASTIC NETTING (INCLUDING POLYPROPYLENE, NYLON, POLYETHYLENE, AND POLYESTER) ARE NOT EQUIVALENT ALTERNATIVES. NETTING USED IN THESE PRODUCTS SHOULD HAVE A LOOSE-WEAVE WILDLIFE-SAFE DESIGN WITH MOVABLE JOINTS BETWEEN THE HORIZONTAL AND VERTICAL TWINES, ALLOWING THE TWINES TO MOVE INDEPENDENTLY AND THUS REDUCING THE POTENTIAL FOR WILDLIFE ENTANGLEMENT.
 6. AVOID THE USE OF SILT FENCES REINFORCED WITH METAL OR PLASTIC MESH OR IF POSSIBLE RECOMMEND THE USE OF EROSION CONTROL BERMS.
 7. WHEN NO LONGER REQUIRED, TEMPORARY EROSION AND SEDIMENT CONTROL PRODUCTS SHOULD BE REMOVED PROMPTLY FROM THE PROJECT SITE.
 8. USE NONWOVEN COIR FABRIC WHEN A SURFACE FABRIC TREATMENT IS REQUIRED FOR EROSION CONTROL, AND STABILIZATION, SUCH AS 100% BIODEGRADABLE COCONUT FIBER MAT OR EQUAL AS REVIEWED AND APPROVED BY THE PROJECT DESIGN ENGINEER.
 9. USE WOVEN COIR FABRIC WHEN SITE CONDITIONS WARRANT. THE OUTER LAYER OF WOVEN COIR FABRIC SHOULD BE A HIGH STRENGTH, CONTINUOUSLY WOVEN MAT (I.E., WITHOUT SEAMS) AND MADE OF 100% COCONUT FIBER.
 10. REFER TO GENERAL NOTES AND LEGEND SHEET FOR ADDITIONAL EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCE.
 11. ALL WORK AT THE WETLAND CROSSING AND IN THE WETLANDS SHOULD OCCUR BETWEEN APRIL 15TH AND OCTOBER 15TH TO AVOID IMPACTING OVERWINTERING TURTLES.
 12. HYDROSEEDING SHOULD NOT OCCUR WITHIN 75' OF WETLANDS.
 13. AVOID OR MINIMIZE THE USE OF FERTILIZERS IN UPLAND AREAS OR TRANSITION ZONES. IF FERTILIZERS ARE NECESSARY, USE ORGANIC VERSUS SYNTHETIC FERTILIZER OPTIONS. SYNTHETIC OPTIONS SHOULD BE AVOIDED; IF CHOSEN, THEY SHOULD BE CONTROLLED-RELEASED AND AT LOW STRENGTHS.

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ISSUED FOR
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NHSCOT
HEADQUARTERS
125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE
TAX MAP:
MAP 322 / LOT 59
OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105
APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

NO.	DATE	DESCRIPTION
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2	06/20/2025	CITY OF CONCORD AND AOT COMMENTS
3	04/28/2025	NHFG COMMENTS

REVISIONS
0 40' 80'
GRAPHIC SCALE
1 INCH = 40 FEET

DATE: FEBRUARY 18, 2025
NOBIS PROJECT NO. 100661.000
DRAWN BY: KLR & MGD
CHECKED BY: JCN
CAD DRAWING FILE:
100661.000-C-320-EROS.dwg
SHEET TITLE

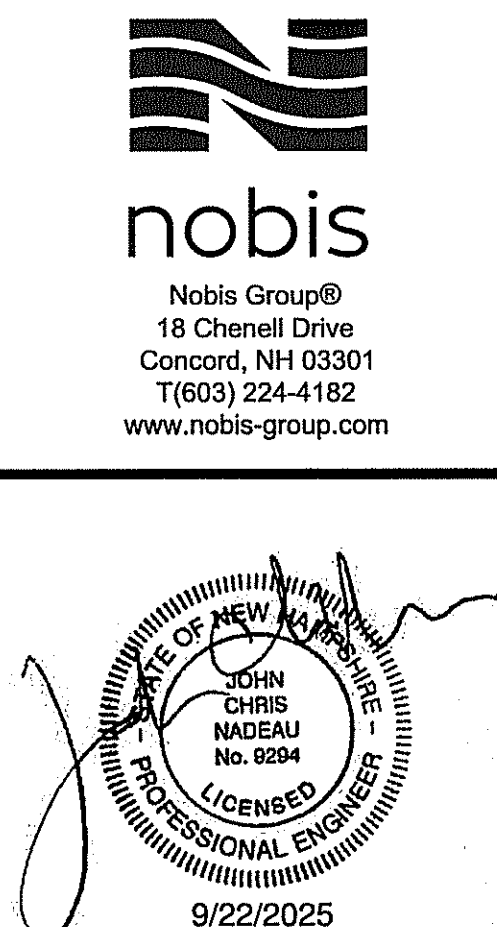
EROSION
CONTROL PLAN

SHEET
C-5.0

\\V00661.000-NHSCOT Camp Spaulding Concord, NH\CAD\DWG\100661.000-C-320-EROS.dwg 9/2/2025 4:23 PM



- NOTES:**
1. THIS PLAN IS NOT INTENDED TO SHOW PERMANENT DRAINAGE DESIGNS AND TO BE USED FOR TEMPORARY EROSION AND SEDIMENT CONTROL ONLY.
 2. CONTRACTOR TO GRADE ACUTE EXCAVATION AREAS TO ALLOW MAXIMUM INFILTRATION OF STORMWATER AND MINIMIZE RUNOFF FROM DISTURBED AREAS.
 3. DISTURBANCES OF AREAS SHALL BE MINIMIZED. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR LONGER THAN TWO MONTHS TO THE GROWING SEASON. AREAS WHICH WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE SHALL BE TEMPORARILY SEEDED AND MULCHED. ALL AREAS SHALL BE STABILIZED WITH SEED AND MULCH AND TAKEN OUT OF CONSTRUCTION BY THE END OF THE GROWING SEASON.
 4. FOR FURTHER INFORMATION ON BEST MANAGEMENT PRACTICES SEE COMPLETE PLAN SET AND STORMWATER POLLUTION PREVENTION PLAN. CONTACT THE DESIGNER OR CHOOSE BY NCBIS ENGINEERING, INC., (DATE).
 5. USE TEMPORARY EROSION AND SEDIMENT CONTROL PRODUCTS THAT EITHER DO NOT CONTAIN NETTING, OR THAT CONTAIN NETTING MADE OF POLYPROPYLENE, NYLON, POLYETHYLENE, OR NON-PLASTIC MATERIALS SUCH AS JUTE, SIAL, OR COIR FIBER. DEGRADABLE, PHOTODEGRADABLE, UV-DEGRADABLE, OXO-DEGRADABLE, OR OXO-BIODEGRADABLE PLASTIC NETTING (INCLUDING POLYPROPYLENE, NYLON, POLYETHYLENE, AND POLYESTER) ARE NOT EQUIVALENT ALTERNATIVES. NETTING USED IN THESE PRODUCTS SHOULD HAVE A LOOSE-WEAVE DESIGN TO ALLOW DESIRED PLANT GROWTH THROUGH THE HORIZONTAL AND VERTICAL TWINES, ALLOWING THE TWINES TO MOVE INDEPENDENTLY AND THUS REDUCING THE POTENTIAL FOR WILDLIFE ENTANGLEMENT.
 6. AVOID THE USE OF SILT FENCES REINFORCED WITH METAL OR PLASTIC WIRE OR POSTS. WE DO NOT RECOMMEND THE USE OF EROSION CONTROL BERMS.
 7. WHEN NO LONGER REQUIRED, TEMPORARY EROSION AND SEDIMENT CONTROL PRODUCTS SHOULD BE REMOVED TO PREVENT HARM TO PLANTS AND ANIMALS.
 8. USE NONWOVEN COIR FIBER WHEN A SURFACE FIBER TREATMENT IS REQUIRED FOR EROSION CONTROL AND STABILIZATION, SUCH AS 100% BIODEGRADABLE COCONUT FIBER MAT OR EQUAL AS REVIEWED AND APPROVED BY THE PROJECT ENGINEER.
 9. USE WOVEN COIR FIBER WHEN SITE CONDITIONS WARRANT. THE OUTER LAYER OF WOVEN COIR FIBER SHOULD BE A HIGH STRENGTH, CONTINUOUSLY WOVEN MAT (I.E., WITHOUT SEAMS) OF AT LEAST 100% COIR FIBER.
 10. REFER TO GENERAL NOTES AND LEGEND SHEET FOR ADDITIONAL EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCING.
 11. ALL WORK AT THE WETLAND CROSSING AND IN THE WETLANDS SHOULD OCCUR BETWEEN APRIL 15TH AND OCTOBER 15TH TO AVOID THE WETLAND GROWING SEASON.
 12. HYDROSEEDING SHOULD NOT OCCUR WITHIN 75' OF WETLANDS.
 13. AVOID OR MINIMIZE THE USE OF FERTILIZERS IN UPLAND AREAS OR TRANSITION ZONES. IF FERTILIZERS ARE NECESSARY, USE ORGANIC VERSUS SYNTHETIC FERTILIZER OPTIONS. SYNTHETIC FERTILIZERS SHOULD BE USED WITH CAUTION. FERTILIZER SHOULD BE CONTROLLED-RELEASED AND AT LOW STRENGTHS.



ISSUED FOR
CONSTRUCTION

NHSCOT
HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

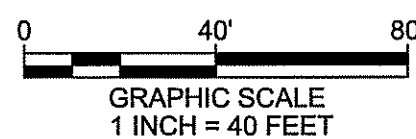
TAX MAP:
MAP 32Z / LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

3	09/03/2025	CITY OF CONCORD AND AOT COMMENTS
2	06/20/2025	CITY OF CONCORD AND AOT COMMENTS
1	04/28/2025	NHFG COMMENTS
NO.	DATE	DESCRIPTION

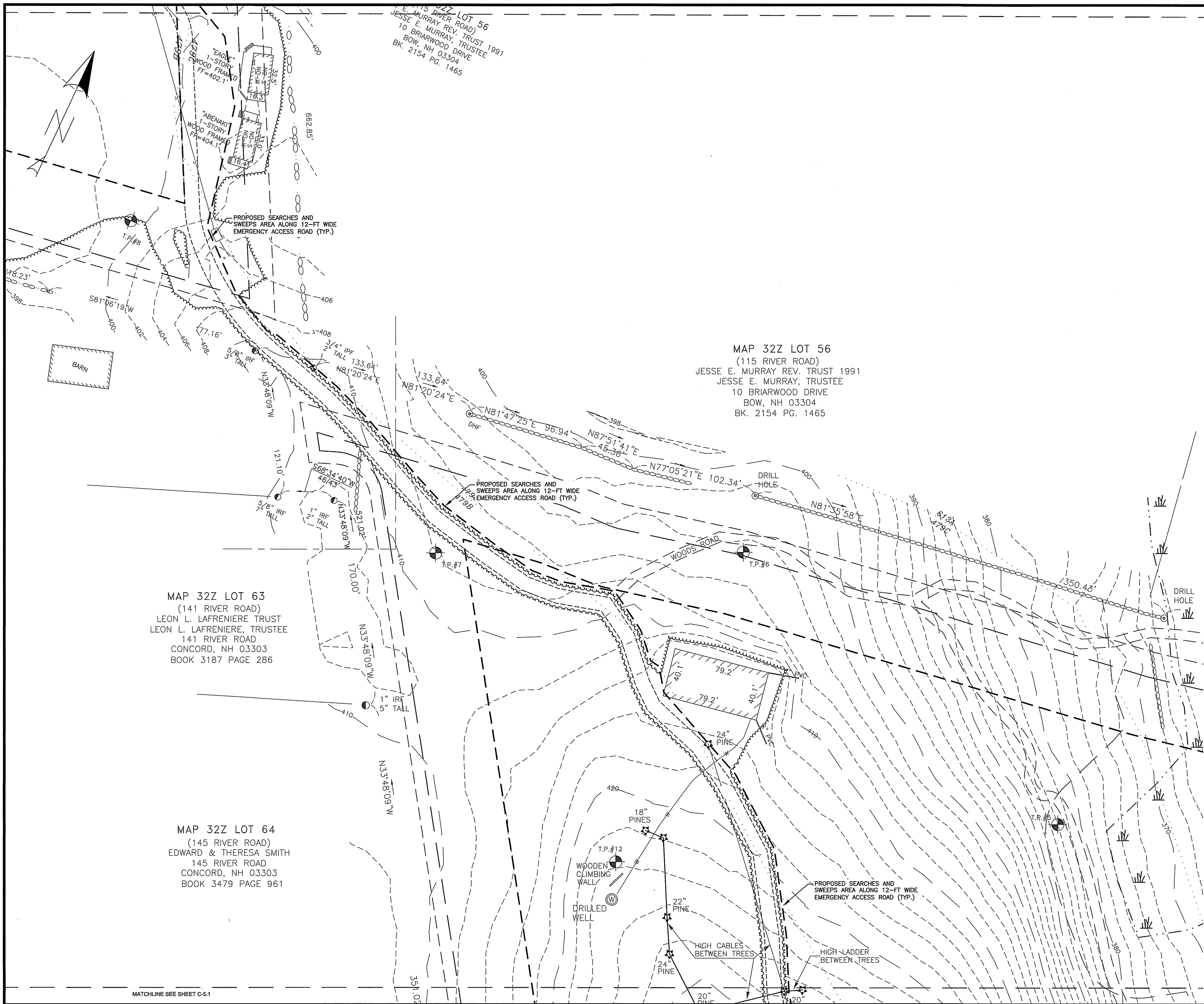
REVISIONS



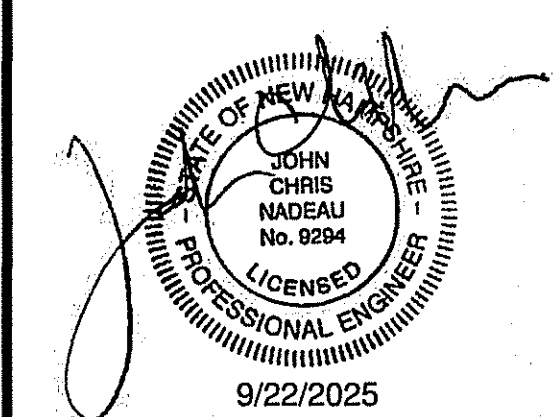
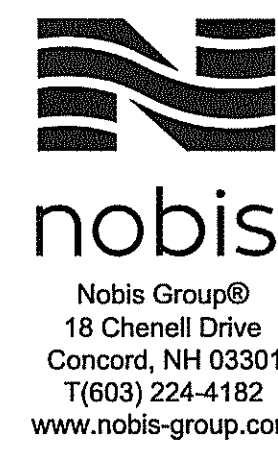
DATE:	FEBRUARY 18, 2025
NOBIS PROJECT NO.	100661.000
DRAWN BY:	KLR & MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-320-EROS.dwg
SHEET TITLE	

EROSION CONTROL PLAN

SHEET
C-5.1



- NOTES:**
1. THIS PLAN IS NOT INTENDED TO SHOW PERMANENT DRAINAGE DESIGNS AND TO BE USED FOR TEMPORARY EROSION AND SEDIMENT CONTROL ONLY.
 2. CONTRACTOR TO GRADE ACTIVE EXCAVATION AREAS TO ALLOW MAXIMUM INFILTRATION OF STORMWATER AND MINIMIZE RUNOFF FROM DISTURBED AREAS.
 3. DISTURBANCES OF AREAS TO BE MINIMIZED. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS DURING THE GROWING SEASON. AREAS WHICH WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE SHALL BE TEMPORARILY SEEDED AND MULCHED. ALL AREAS SHALL BE STABILIZED WITH SEED AND MULCH AND TACKIFIER WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE AND PRIOR TO THE END OF THE GROWING SEASON.
 4. FOR FURTHER INFORMATION ON BEST MANAGEMENT PRACTICES SEE COMPLETE PLAN SET AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT PREPARED BY NOBIS ENGINEERING, INC., (DATE).
 5. USE TEMPORARY EROSION AND SEDIMENT CONTROL PRODUCTS THAT EITHER DO NOT CONTAIN NETTING, OR THAT CONTAIN NETTING MANUFACTURED FROM 100% BIODEGRADABLE NON-PLASTIC MATERIALS SUCH AS JUTE, SISAL, OR COIR FIBER. DEGRADABLE, PHOTODEGRADABLE, UV-DEGRADABLE, OXO-DEGRADABLE, OR OXO-BIODEGRADABLE PLASTIC NETTING (INCLUDING POLYPROPYLENE, NYLON, POLYETHYLENE, AND POLYESTER) ARE NOT EQUIVALENT ALTERNATIVES. NETTING USED IN THESE PRODUCTS SHOULD HAVE A LOOSE-WEAVE WILDLIFE-SAFE DESIGN WITH MOVABLE JOINTS BETWEEN THE HORIZONTAL AND VERTICAL TWINES, ALLOWING THE TWINES TO MOVE INDEPENDENTLY AND THUS REDUCING THE POTENTIAL FOR WILDLIFE ENTANGLEMENT.
 6. AVOID THE USE OF SILT FENCES REINFORCED WITH METAL OR PLASTIC MESH OR IF POSSIBLE RECOMMEND THE USE OF EROSION CONTROL BERMS.
 7. WHEN NO LONGER REQUIRED, TEMPORARY EROSION AND SEDIMENT CONTROL PRODUCTS SHOULD BE REMOVED PROMPTLY FROM THE PROJECT SITE.
 8. USE NONWOVEN COIR FABRIC WHEN A SURFACE FABRIC TREATMENT IS REQUIRED FOR EROSION CONTROL AND STABILIZATION, SUCH AS 100% BIODEGRADABLE COCONUT FIBER MAT OR EQUAL AS REVIEWED AND APPROVED BY THE PROJECT DESIGN ENGINEER.
 9. USE WOVEN COIR FABRIC WHEN SITE CONDITIONS WARRANT. THE OUTER LAYER OF WOVEN COIR FABRIC SHOULD BE A HIGH STRENGTH, CONTINUOUSLY WOVEN MAT (I.E., WITHOUT SEAMS) AND MADE OF 100% COCONUT FIBER.
 10. REFER TO GENERAL NOTES AND LEGEND SHEET FOR ADDITIONAL EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCE.
 11. SEARCHES AND SWEEPS SHALL BE CONDUCTED BY TRAINED INDIVIDUALS BETWEEN APRIL 15 AND OCTOBER 15 IMMEDIATELY BEFORE THE START OF WORK AND MOVEMENT OF EQUIPMENT IN ORDER TO MINIMIZE THE CHANCE OF ANIMALS ENTERING AN AREA BETWEEN THE SWEEP AND WORK. A TRAINED INDIVIDUAL SHALL BE DEFINED AS ANY CONTRACTOR WHO HAS REVIEWED THE SPECIES PROFILES FOR SPOTTED TURTLE, BLANDING'S TURTLE, EASTERN HOGNOSE SNAKE, AND NORTHERN BLACK RACER AS SHOWN ON SHEET G-2.
 12. SWEEPS (E.G. VISUAL OBSERVATIONS MADE WHILE WALKING TRANSECTS) SHOULD CONSIST OF TRAINED INDIVIDUALS MOVING THROUGH THE AREA AND SURROUNDING VICINITY THAT WILL BE IMPACTED BY THE CURRENT ACTIVITIES AND ACTIVELY LOOKING FOR TURTLES (AND OTHER WILDLIFE) THAT MAY BE IMPACTED BY PROJECT ACTIVITIES.



ISSUED FOR
CONSTRUCTION

NHSCOT
HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 32Z / LOT 59

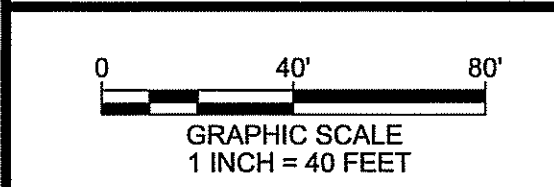
OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

09/03/2025	CITY OF CONCORD AND AOT COMMENTS
06/20/2025	CITY OF CONCORD AND AOT COMMENTS
04/28/2025	NHFG COMMENTS

NO.	DATE	DESCRIPTION
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REVISIONS



DATE:	FEBRUARY 18, 2025
NOBIS PROJECT NO.	100661.000
DRAWN BY:	KLR & MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-320-EROS.dwg
SHEET TITLE	

EROSION
CONTROL PLAN

SHEET
C-5.2

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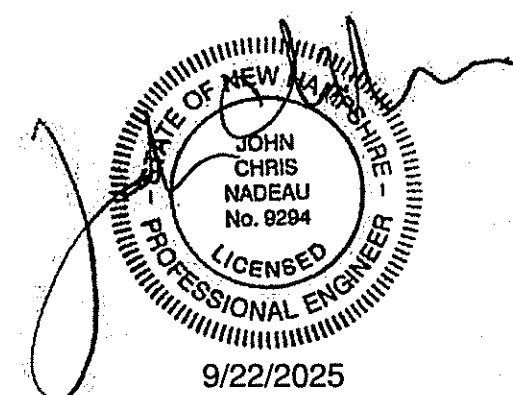
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5. USE TEMPORARY EROSION AND SEDIMENT CONTROL PRODUCTS THAT EITHER DO NOT CONTAIN NETTING, OR THAT CONTAIN NETTING MANUFACTURED FROM 100% BIODEGRADABLE NON-PLASTIC MATERIALS SUCH AS JUTE, SISAL, OR COIR FIBER. DEGRADABLE, PHOTODEGRADABLE, UV-DEGRADABLE, OXO-DEGRADABLE, OR OXO-BIODEGRADABLE PLASTIC NETTING (INCLUDING POLYPROPYLENE, NYLON, POLYETHYLENE, AND POLYESTER) ARE NOT EQUIVALENT ALTERNATIVES. NETTING USED IN THESE PRODUCTS SHOULD HAVE A LOOSE-WEAVE WILDLIFE-SAFE DESIGN WITH MOVABLE JOINTS BETWEEN THE HORIZONTAL AND VERTICAL TWINES, ALLOWING THE TWINES TO MOVE INDEPENDENTLY AND THUS REDUCING THE POTENTIAL FOR WILDLIFE ENTANGLEMENT.
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8. USE NONWOVEN COIR FABRIC WHEN A SURFACE FABRIC TREATMENT IS REQUIRED FOR EROSION CONTROL AND STABILIZATION, SUCH AS 100% BIODEGRADABLE COCONUT FIBER MAT OR EQUAL AS REVIEWED AND APPROVED BY THE PROJECT DESIGN ENGINEER.
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NHSCOT
HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

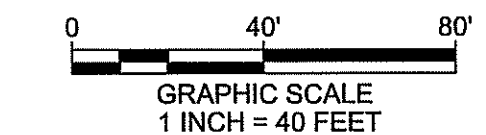
TAX MAP:
MAP 322 / LOT 59

OWNER(S):
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REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

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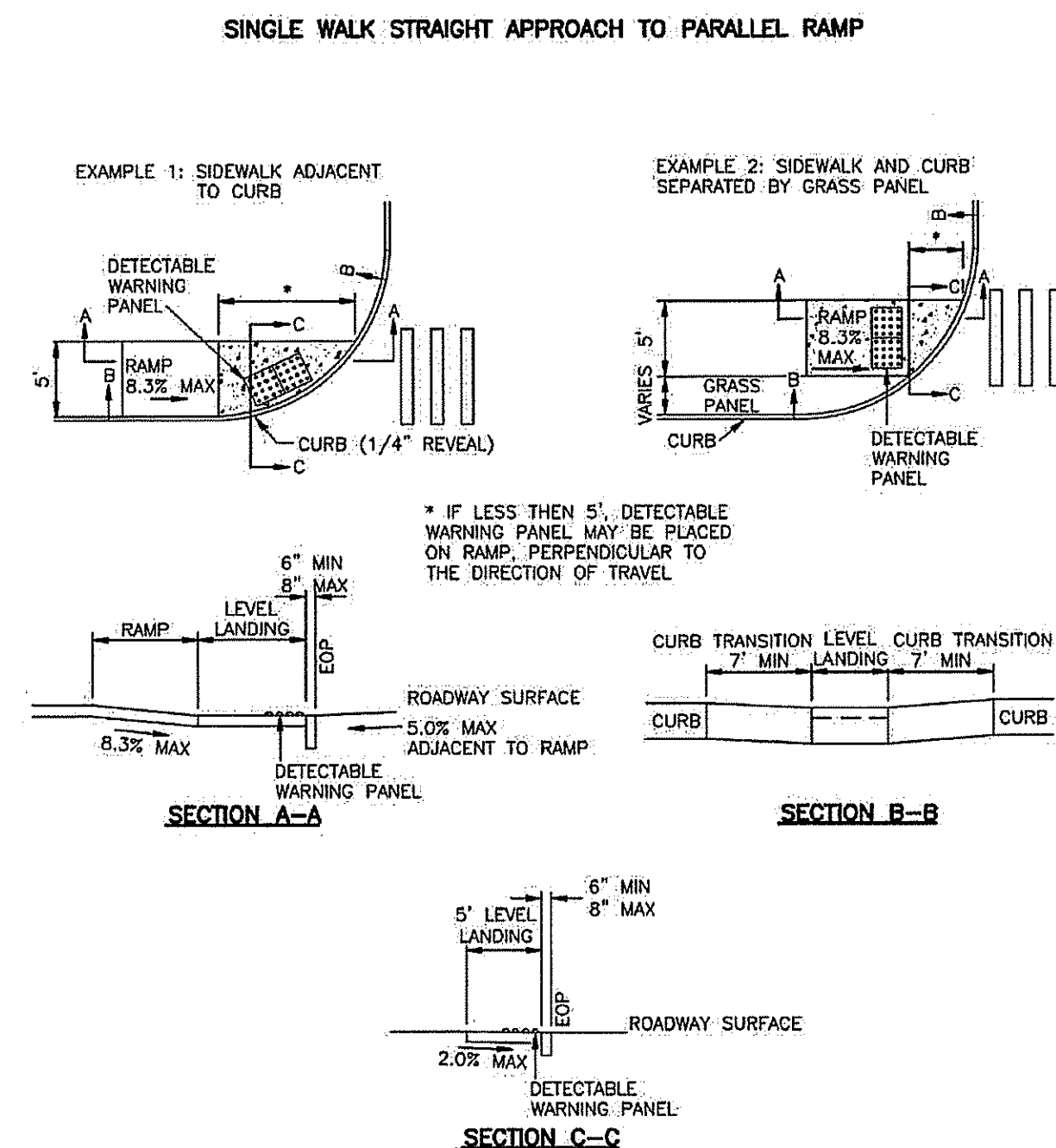
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NOBIS PROJECT NO.	100661.000
DRAWN BY:	KLR & MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-320-EROS.dwg
SHEET TITLE	

EROSION
CONTROL PLAN

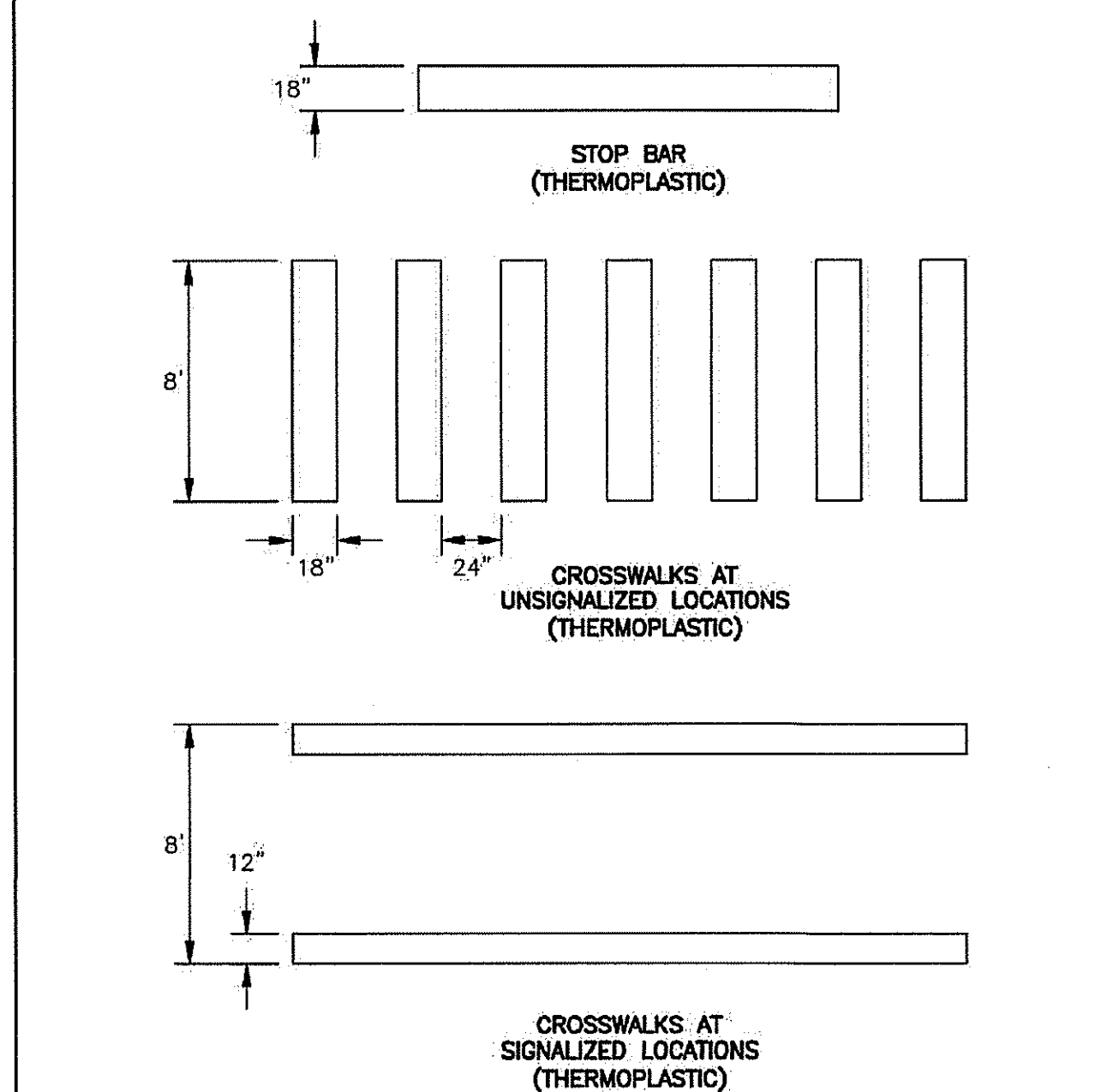
SHEET
C-5.3

1. THE DIMENSIONS AND GRADES SHOWN ON THIS STANDARD WILL BE ADHERED TO IN THE DESIGN AND THE CONSTRUCTION OF SIDEWALK RAMPS. WHERE SIDEWALKS RUN ADJACENT TO ROADWAYS ON STEEP (5% OR GREATER) GRADES, RAMP GRADES WILL BE AS FLAT AS POSSIBLE, (ON LOW SIDE OF DRAVES AND INTERSECTING SIDE STREETS, RAMPS SHALL SLOPE TOWARDS DRIVE OR SIDE STREET AT 2%)
2. NOMINAL RAMP DIMENSIONS AND GRADES:
RAMP WIDTH - 5' MINIMUM
RAMP SLOPE - 8.3% MAXIMUM
FLARE SLOPE - 10% MAXIMUM
RAMP CROSS SLOPE - 2% MAXIMUM
3. CURB RAMPS SHALL BE CONSTRUCTED OF 6" PORTLAND CEMENT CONCRETE (CLASS AA, 4000 PSI) WITH 2% X 2% S2W-9 WOVEN WIRE FABRIC REINFORCING PLACED 2/3" FROM THE TOP OF THE SLAB WITH 6" CRUSHED GRAVEL SUBBASE
4. ALL SIDEWALKS AND LANDINGS SHALL HAVE A CROSS SLOPE OF 2% DRAINING TOWARD THE STREET, DRIVE, OR PARKING AREA
5. A LEVEL LANDING (NO GREATER THAN 2% SLOPE IN ANY DIRECTION) SHALL BE PROVIDED AT THE TOP OF SIDEWALK RAMPS TO ALLOW FOR STOPPING AND MANUEVERING OF WHEELCHAIRS
6. LEVEL LANDINGS (NO GREATER THAN 2% SLOPE IN ANY DIRECTION) AT THE BOTTOM OF PERPENDICULAR RAMPS SHALL BE WHOLLY CONTAINED WITHIN MARKED CROSSWALKS
7. DUMMY JOINTS SHALL BE PROVIDED AT TRANSITIONS (GRADE CHANGES) AT TOPS AND BOTTOMS OF RAMPS AND FLARES
8. VERTICAL DROP-OFF EDGES TO RAMPS WILL NOT BE BUILT UNLESS THE RAMP ABUTS AN AREA WHICH WILL NOT BE USED BY PEDESTRIANS
9. A 1/2" CURB REVEAL WILL BE PROVIDED WHERE THE RAMP ADJOINS THE ROADWAY
10. AT MARKED CROSSWALKS, THE FULL WIDTH OF THE RAMP OR LANDING SHALL BE CONTAINED WITHIN THE PAVEMENT MARKINGS
11. RAMP FLARES SHOULD BE LOCATED OUTSIDE THE DIRECT LINE OF TRAVEL MOST LIKELY TO BE FOLLOWED BY THE VISUALLY IMPAIRED
12. SIGNS, POLES, PLANTERS, MAILBOXES, ETC., SHALL NOT BE LOCATED WHERE THEY WILL INTERFERE WITH THE USE OF SIDEWALK RAMPS
13. SIDEWALK RAMPS SHALL NOT BE LOCATED WHERE USERS MUST CROSS DROP INLET GRATES, MANHOLE COVERS, OR OTHER ACCESS LIDS, IF THIS CANNOT BE AVOIDED THEN GRATE DESIGN AND PLACEMENT SHALL CONFORM TO ADA REQUIREMENTS
14. CURB DRAINAGE SHOULD BE CONSTRUCTED SO AS TO PRECLUDE THE FLOW OF WATER PAST THE SIDEWALK RAMP
15. WHEREVER FEASIBLE, TWO SIDEWALK RAMPS ARE RECOMMENDED IN PREFERENCE TO A SINGLE RAMP
16. SIDEWALKS THAT ARE LESS THAN 5' WIDE REQUIRE 5' WIDE BY 5' LONG PASSING AREAS (NO GREATER THAN 2% CROSS SLOPE) AT INTERVALS NOT TO EXCEED 200'
17. E.O.P. = EDGE OF PAVEMENT
18. THE PUBLIC SIDEWALK CURB RAMP STANDARDS DEPICTED HERE MAY NOT BE APPROPRIATE FOR ALL SITUATIONS. FIELD CONDITIONS AT INDIVIDUAL LOCATIONS MAY REQUIRE SPECIFIC DESIGNS. DESIGNS MUST BE CONSISTENT WITH THE PROVISIONS OF THIS SHEET TO THE MAXIMUM EXTENT FEASIBLE ON ALTERATION PROJECTS AND WHEN STRUCTURALLY PRACTICABLE ON NEW CONSTRUCTION PROJECTS AS REQUIRED BY

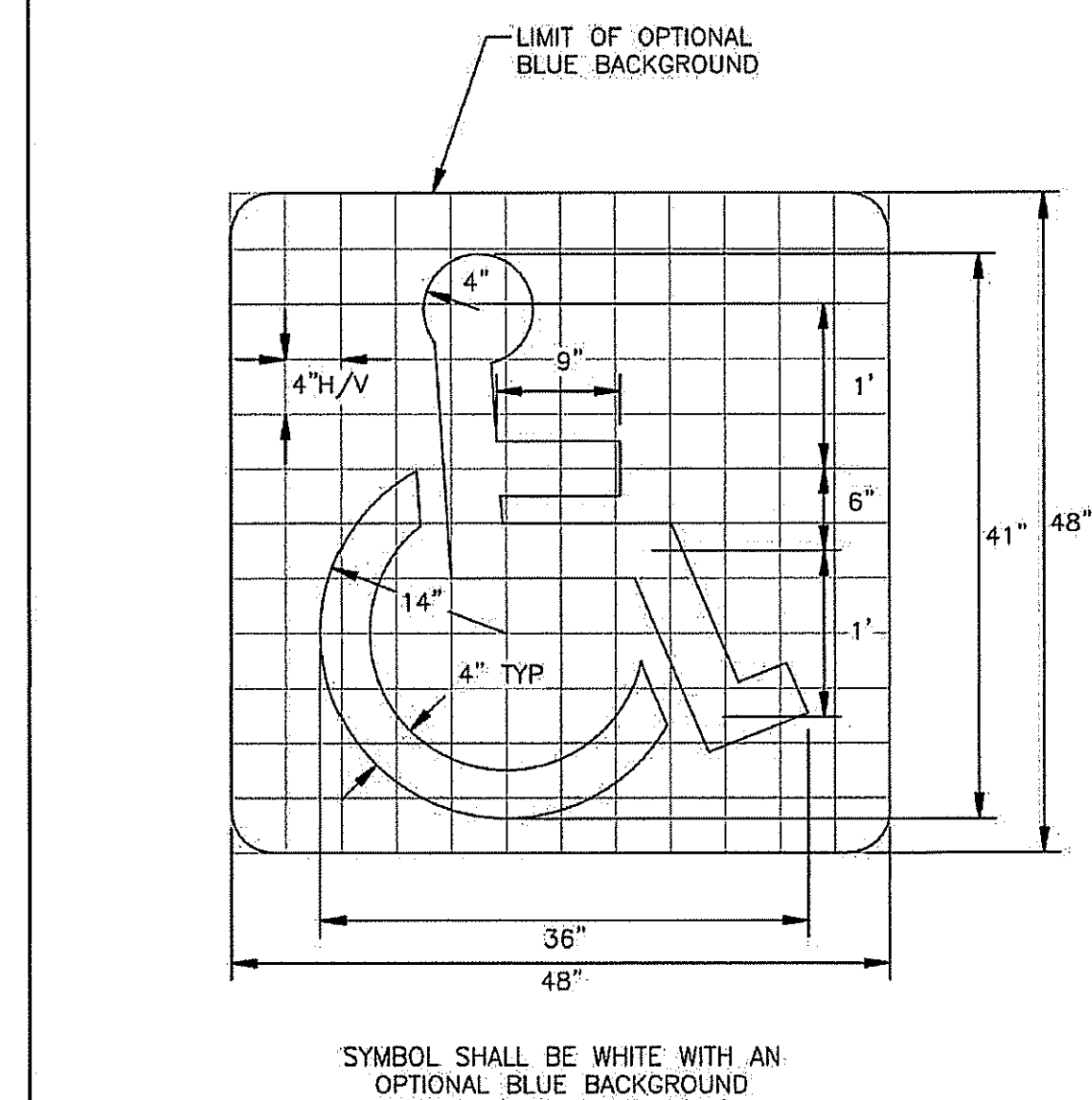
NO.	REVISION	DATE	City of Concord Engineering Services Division SIDEWALK RAMP GENERAL NOTES	SECTION:	SITE/STREET	
1	REV STYLE	11-08		DRAWING NO:	CR-2	
2	NOTE 18	5.19		DATE:	12/08	PAGE: 1
-	-	-				
APPROVED BY:						



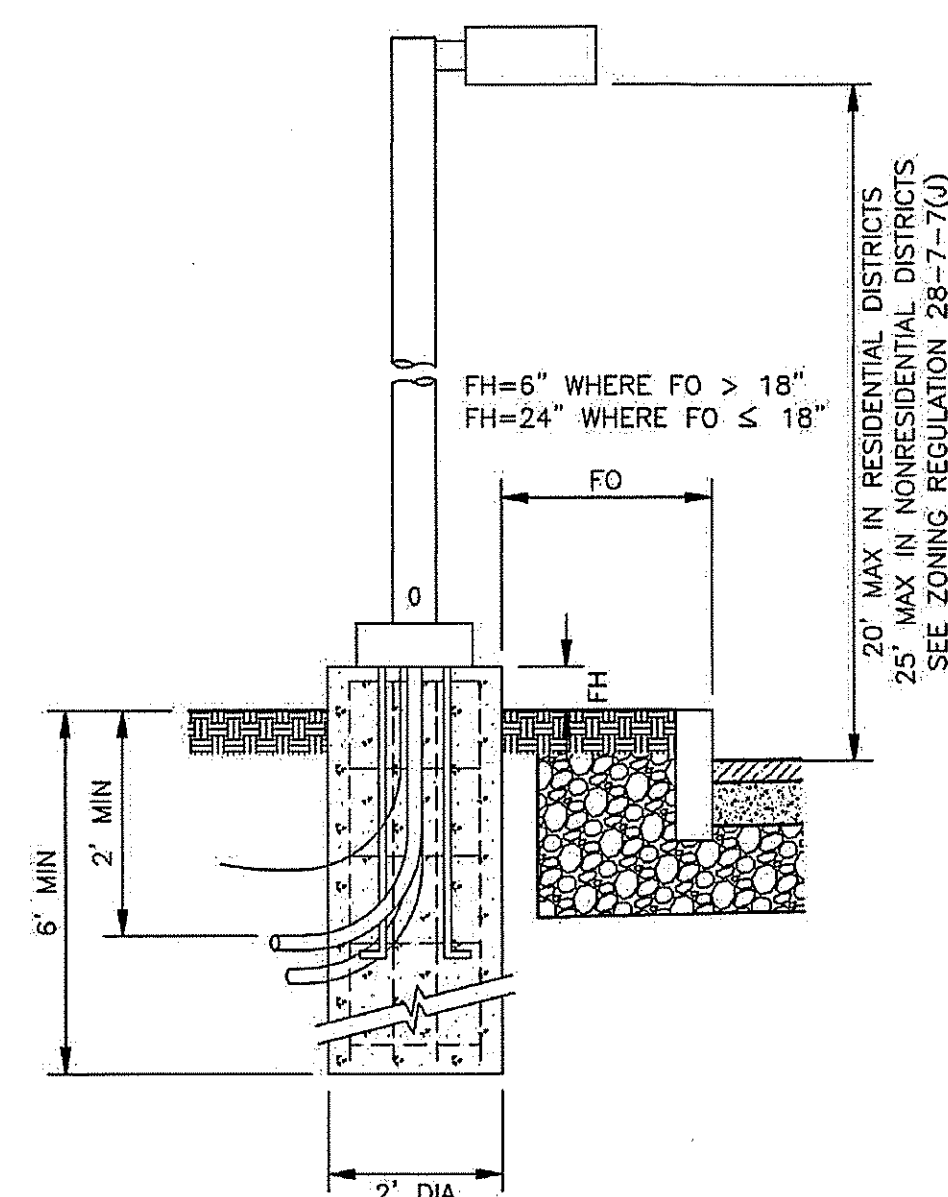
NO.	REVISION	DATE	City of Concord Engineering Services Division SIDEWALK RAMP TYPE 1	SECTION:	SITE/STREET
1	REV STYLE	11-08		DRAWING NO.	CR-3
2	SECT C-C	11-08		DATE:	12/08
-	-	-		PAGE:	1
APPROVED BY:					



NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: SITE/STREET	
--	--	--	PAVEMENT MARKINGS	DRAWING NO. M-3	
--	--	--		DATE: 12/08	PAGE: 1
--	--	--			
--	--	--			

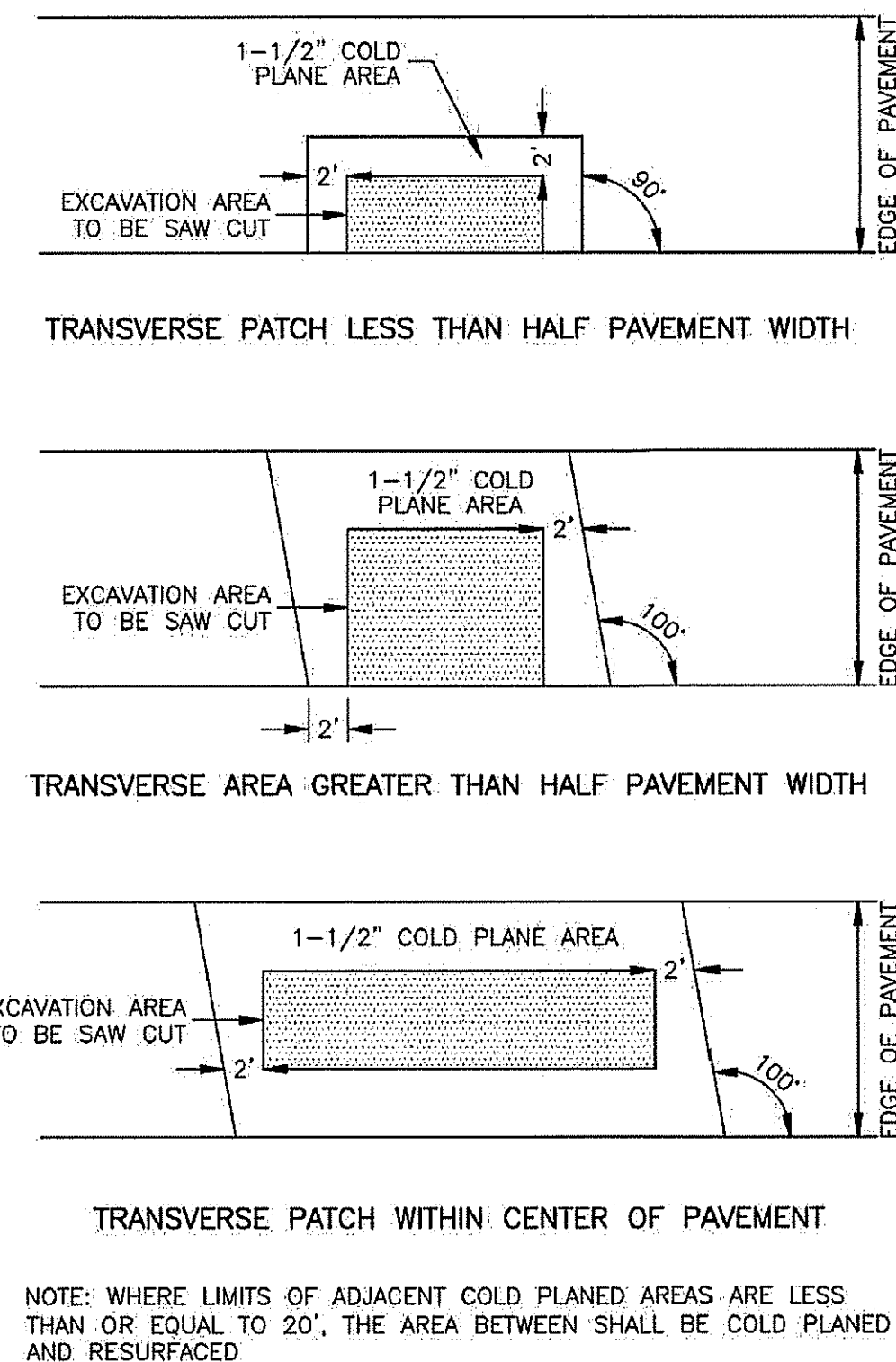


NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	SITE/STREET
-	-	-	ACCESSIBLE PARKING SPACE PAVEMENT MARKING	DRAWING NO.	M-5
-	-	-		DATE: 12/08	PAGE: 1
-	-	-			
-	-	-			
-	-	-			

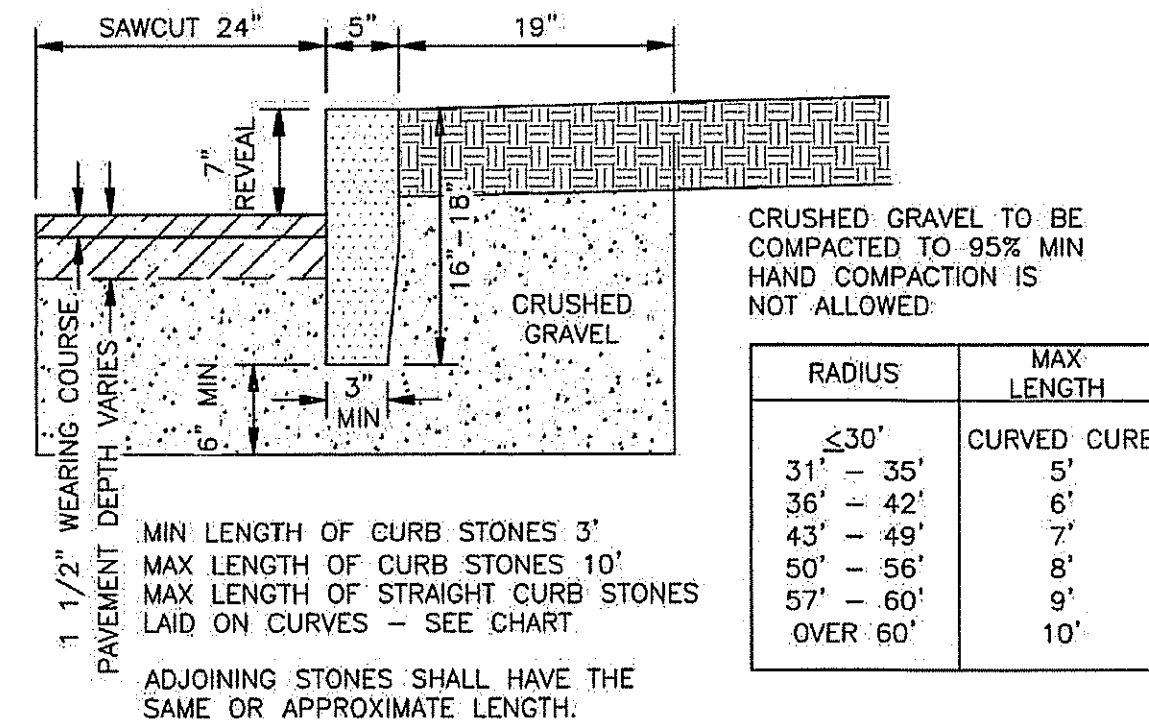


THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. IT IS THE USERS RESPONSIBILITY TO ENSURE INSTALLATION OF THE EQUIPMENT/SYSTEM IN ACCORDANCE WITH BUILDING/PROJECT SPECIFICATIONS, APPLICABLE CODES AND STANDARDS.

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: ROADWAY
--	--	--	TYPICAL LIGHT POLE AND FOUNDATION	DRAWING NO. M-13
--	--	--		DATE: 01/14 PAGE: 1
--	--	--		
--	--	--		
--	--	--		

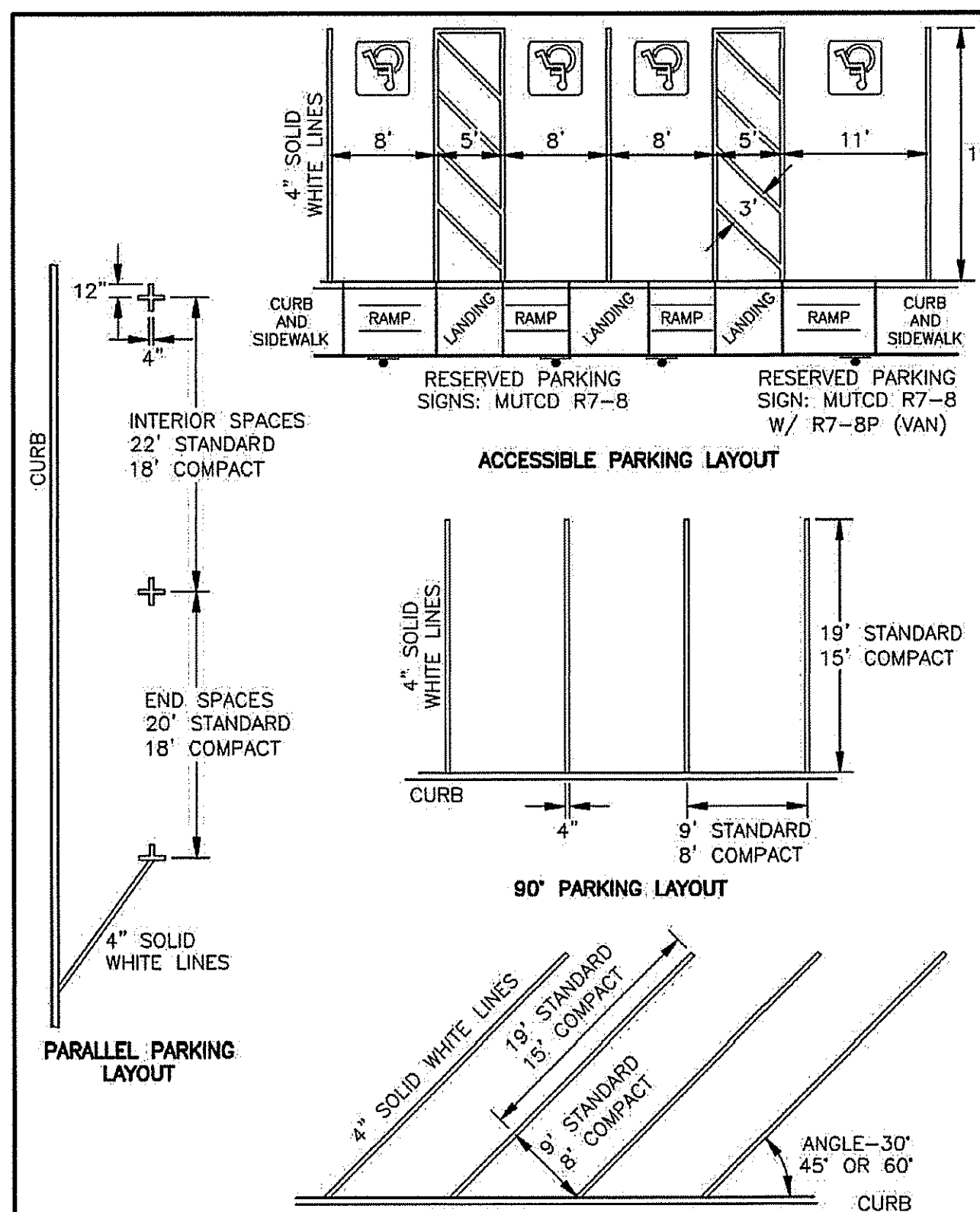


NO.	REVISION	DATE	City of Concord Engineering Services Division SAWCUT REQUIREMENTS	SECTION: SITE/STREET
1	DRAWING NO.	11.11		DRAWING NO: R-12
2	MULTIPLE	12.15		DATE: 12/08 PAGE: 1
-	-	-		

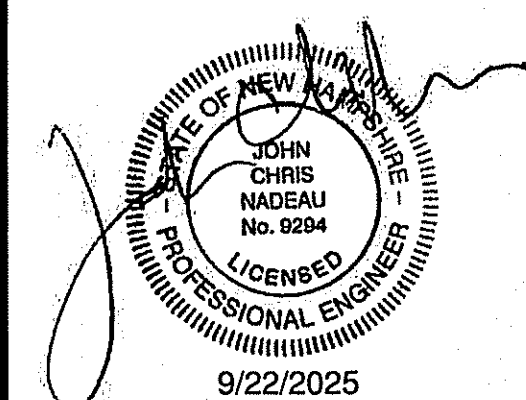
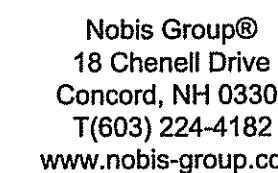


FINISH SURFACE AND TOLERANCES FOR VERTICAL GRANITE CURB		
AREA	FINISH SURFACE	TOLERANCE
<u>TOP</u>	5" WIDE OR AS OTHERWISE SHOWN, SAWN TRUE PLANE.	+½" TO +¾"
	FRONT AND BACK ARRIS LINES PITCHED STRAIGHT AND PARALLEL.	+½" TO +¾"
<u>FRONT FACE</u>	RIGHT ANGLE TO TOP, APPROXIMATELY TRUE PLANE. NO DRILL HOLES, SHOWING IN TOP 10"	+1" TO -¾"
<u>BACK FACE</u> EXPOSED	PLANE PARALLEL WITH FRONT FACE, STRAIGHT SPLIT TO 1½" BELOW EXPOSED SURFACE, NO LARGER THAN ¼" SEGMENT OF DRILL HOLES SHOWING IN ARRIS LINES.	+1" TO -1"
CONCEALED	BELOW 1½" FROM EXPOSED SURFACE.	+1½" TO -1"
BOTTOM	APPROXIMATELY PARALLEL TO TOP, MINIMUM WIDTH: 3"	SEE PLAN
<u>ENDS</u> EXPOSED PORTION	SQUARE WITH PLANES OF TOP AND FACE	
<u>JOINTS</u> EXPOSED	OPTIMUM WIDTH: 1"	
CONCEALED	TO BREAK BACK NO MORE THAN 4"	+¾" TO -¾"

NO.	REVISION	DATE	City of Concord Engineering Services Division VERTICAL GRANITE CURB	SECTION: SITE/STREET	
1	DRAFTING	12.15		DRAWING NO. C-1	
2	SAWCUT	5.19		DATE: 12/08 PAGE: 1	
-	-	-			
-	-	-			



NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	SITE/STREET
-	-	-		DRAWING NO.	M-4
-	-	-		DATE:	12/08
-	-	-		PAGE:	1
-	-	-			



ISSUED FOR
CONSTRUCTION

NHSCOT
HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 32Z / LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

3	09/03/2025	CITY OF CONCORD AND AOT COMMENTS
2	06/20/2025	CITY OF CONCORD AND AOT COMMENTS
1	04/28/2025	NHFG COMMENTS
NO.	DATE	DESCRIPTION

REVISIONS

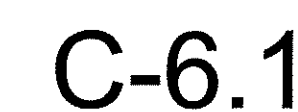
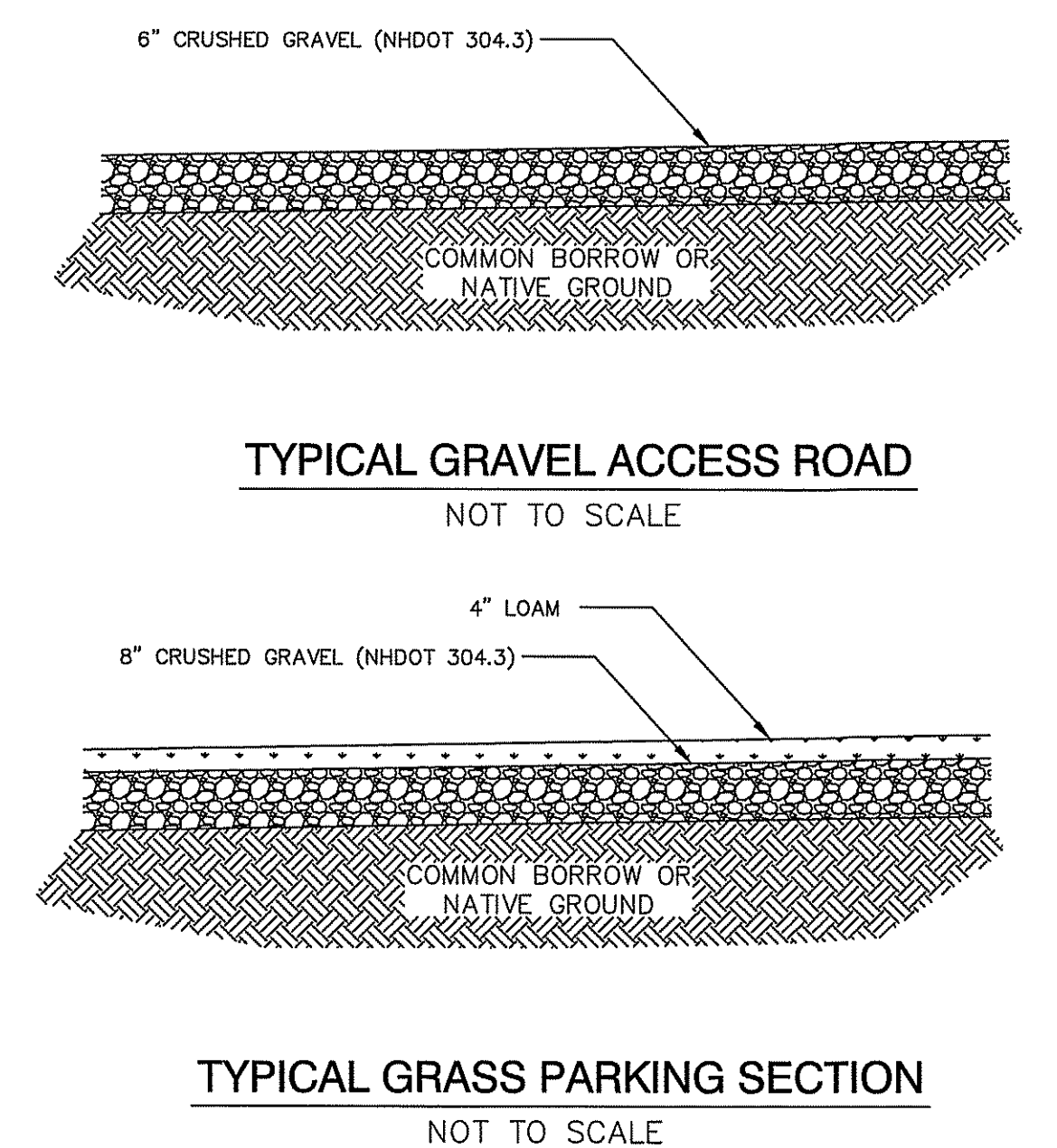
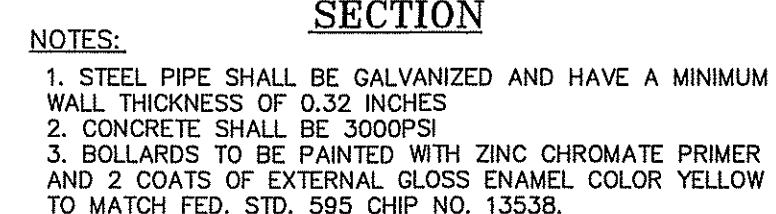
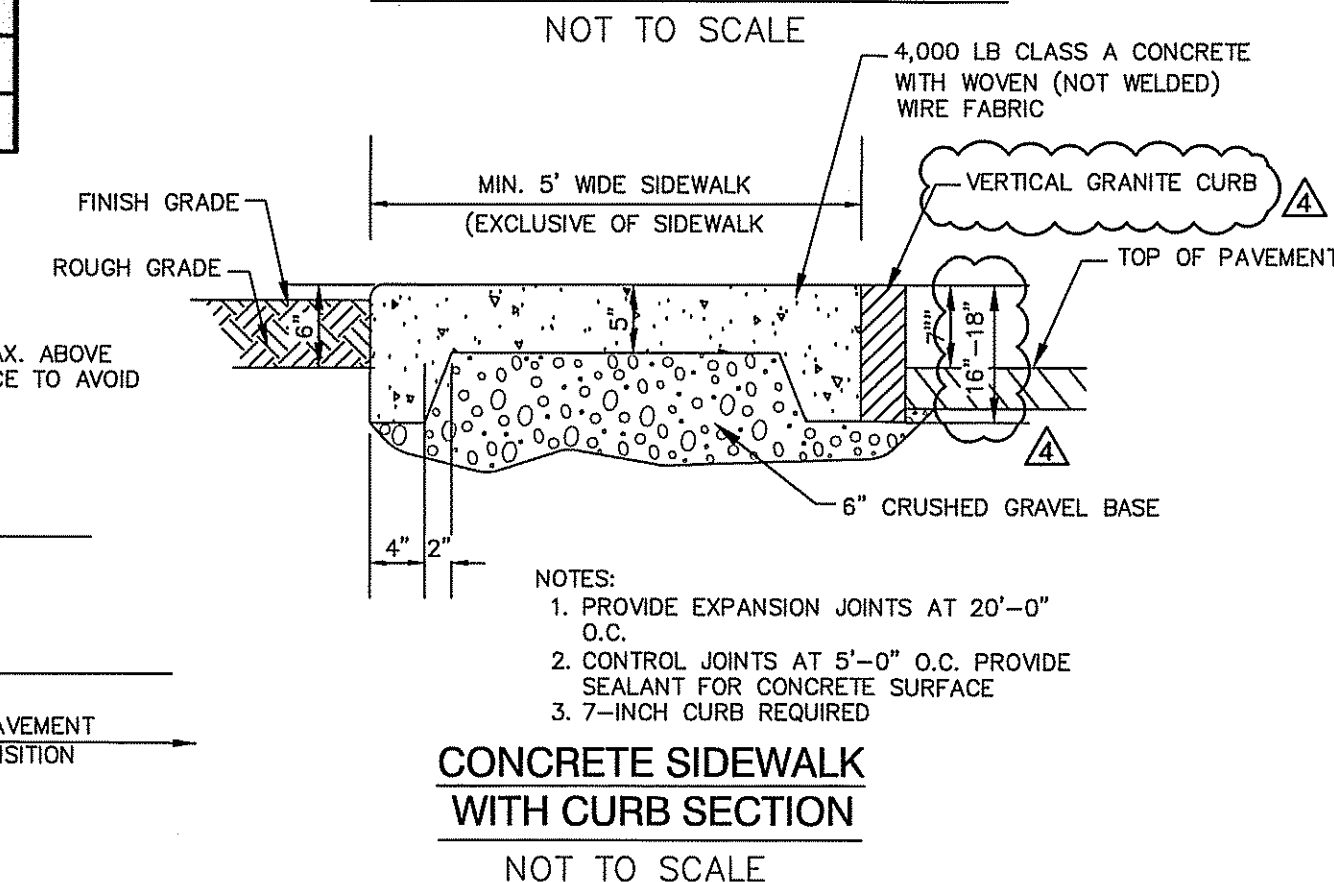
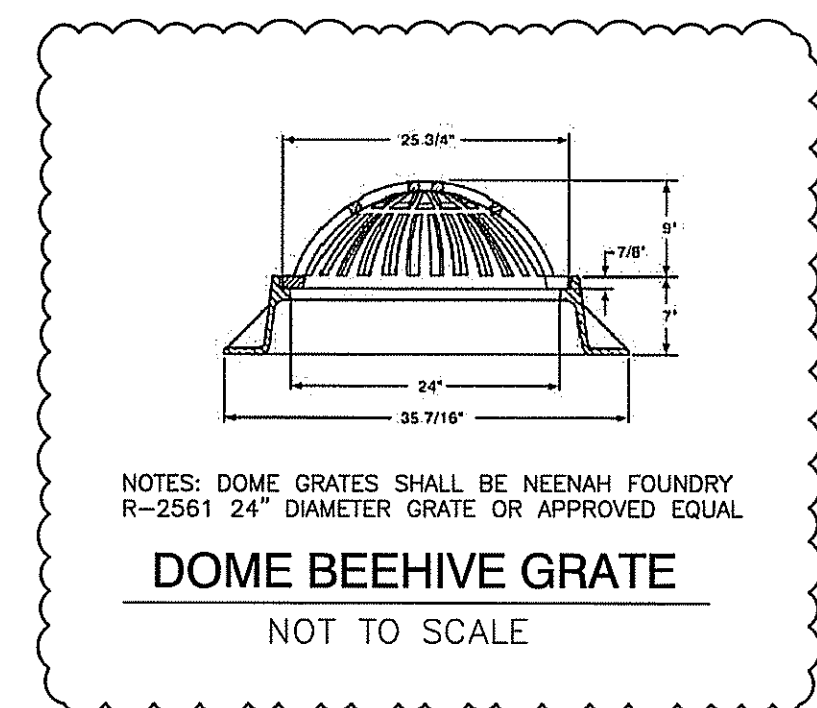
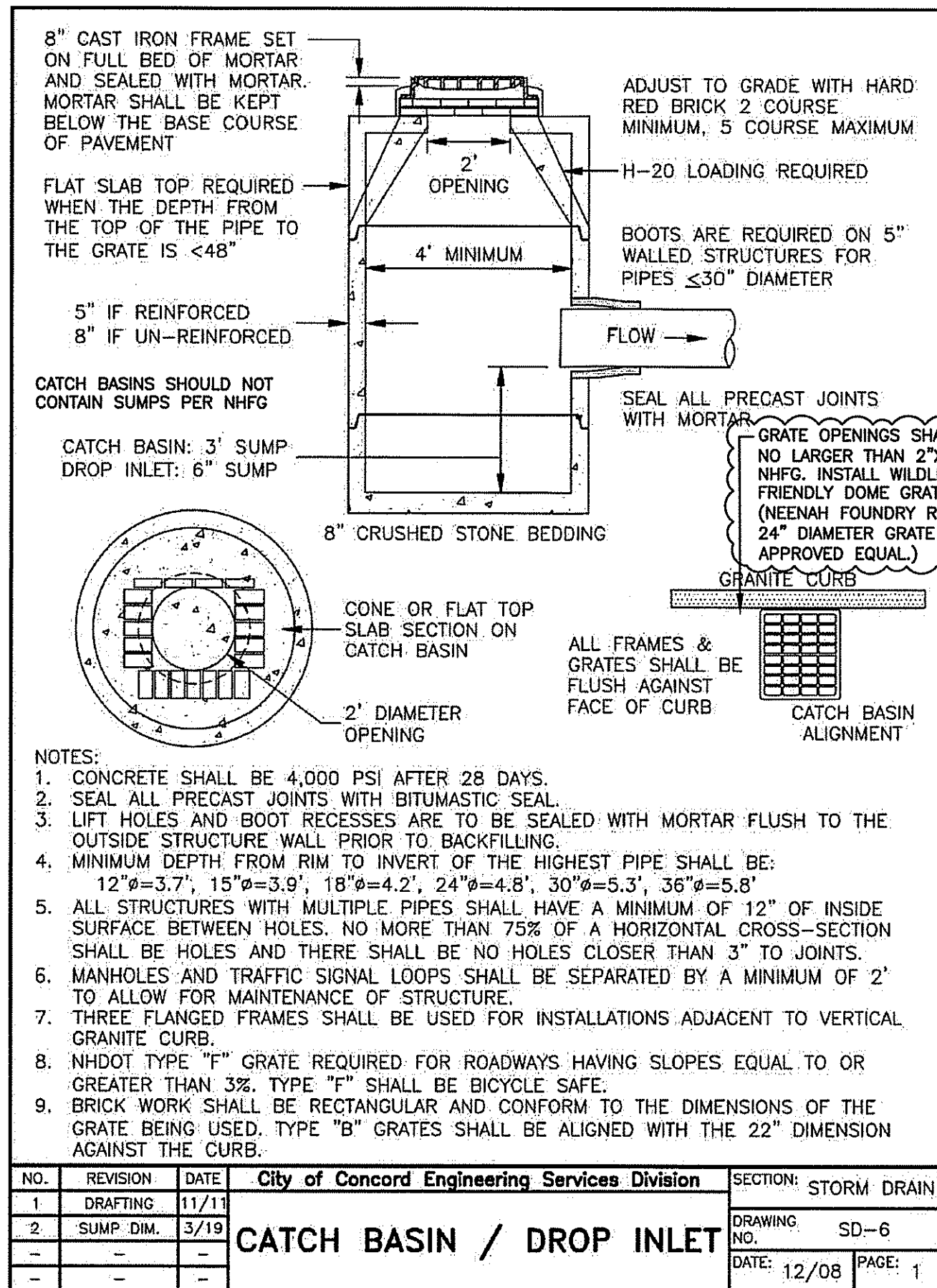
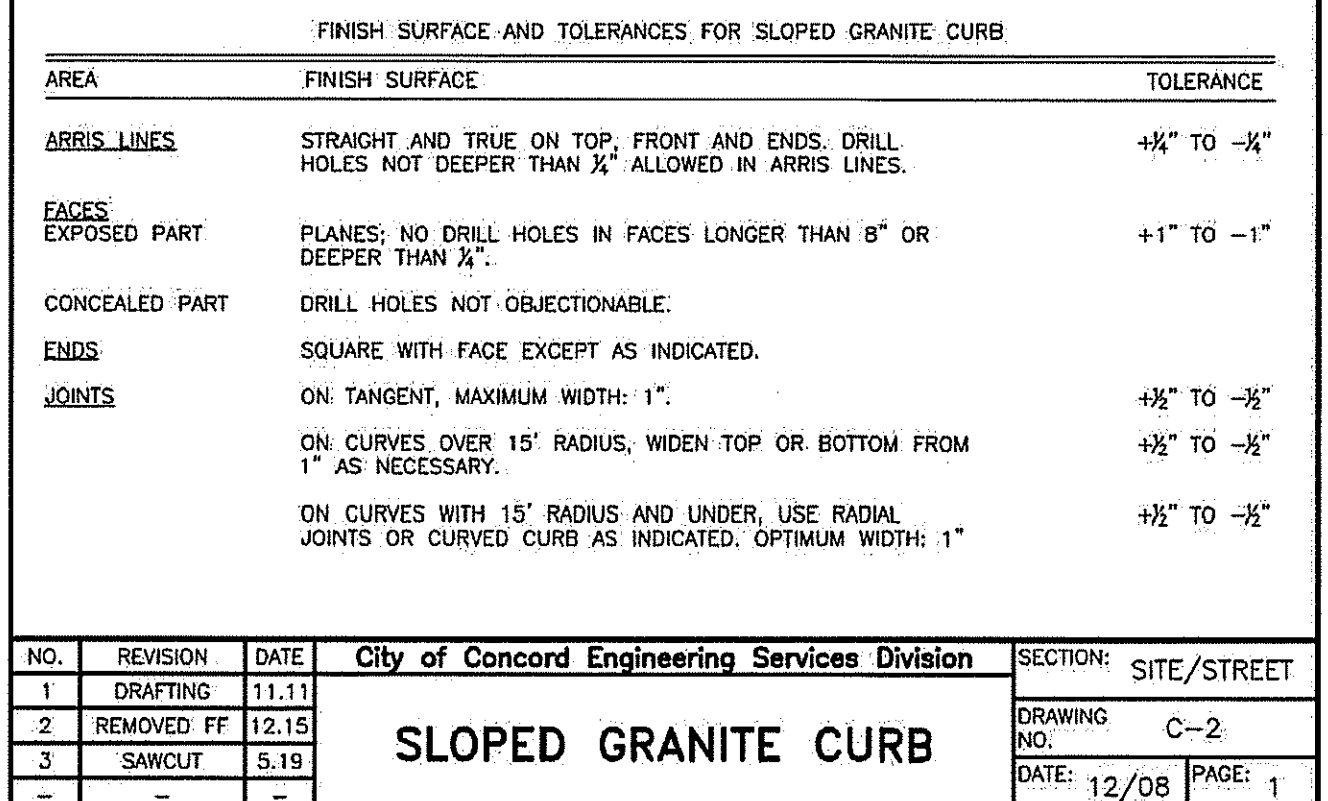
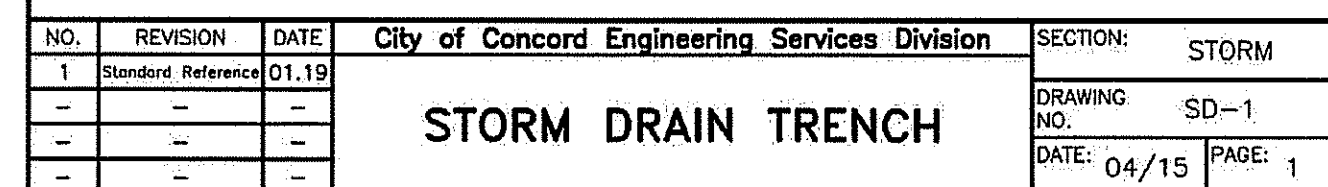
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AS NOTED

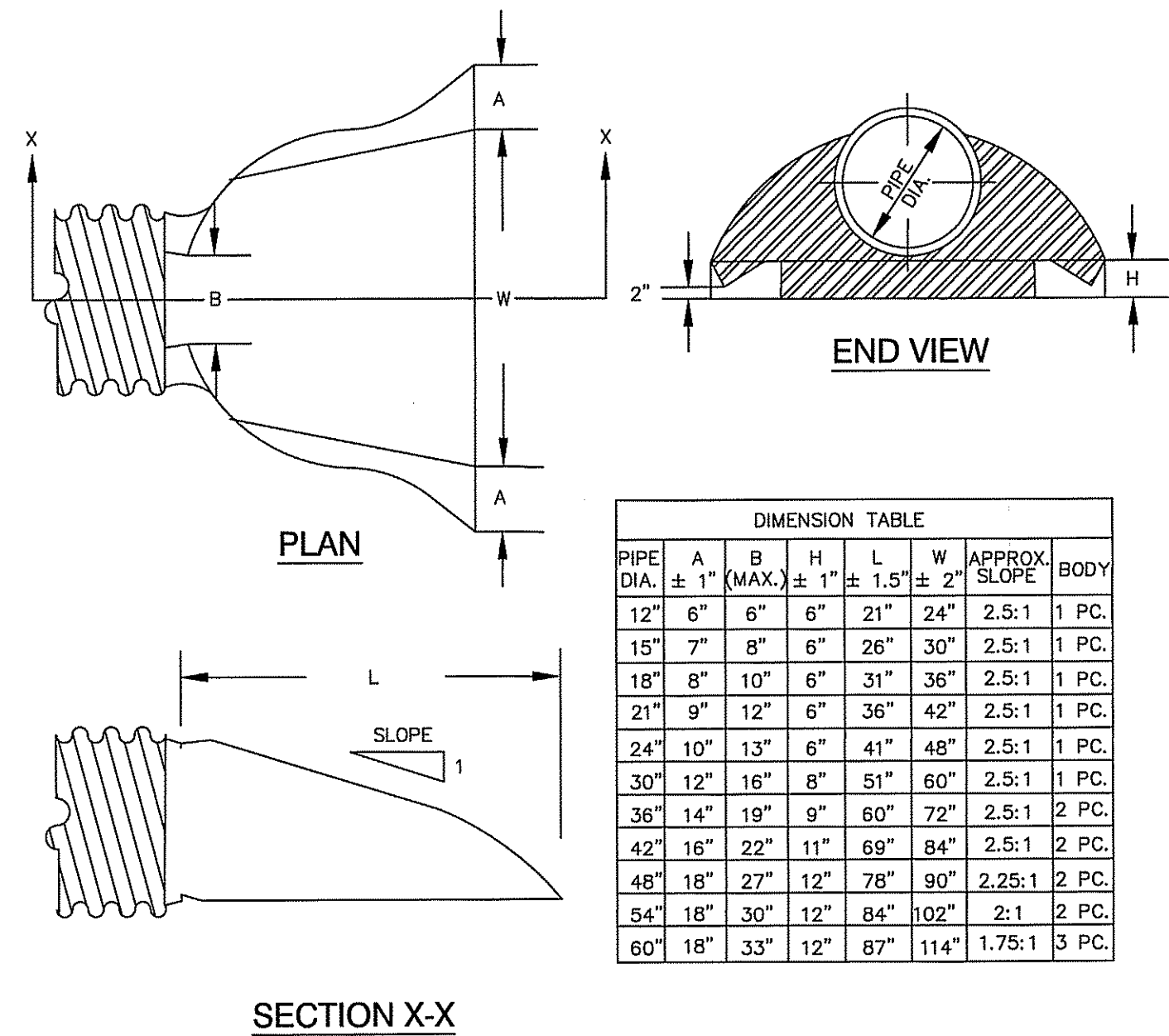
DATE:	FEBRUARY 18, 2025
NOBIS PROJECT NO.	100661.000
DRAWN BY:	KLR & MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-700 DETAILS.dwg
SHEET TITLE	

CONSTRUCTION DETAILS

SHEET

C-6.0

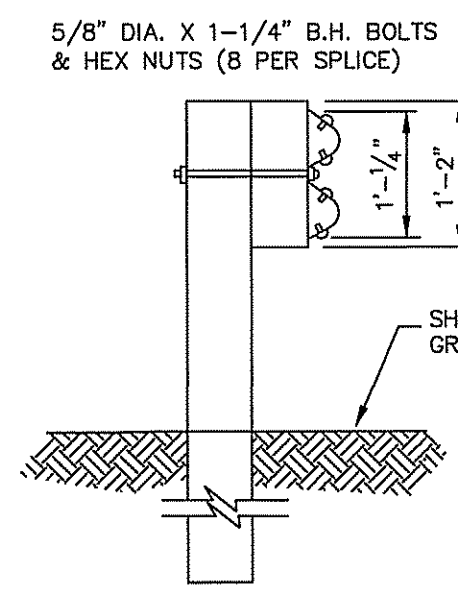




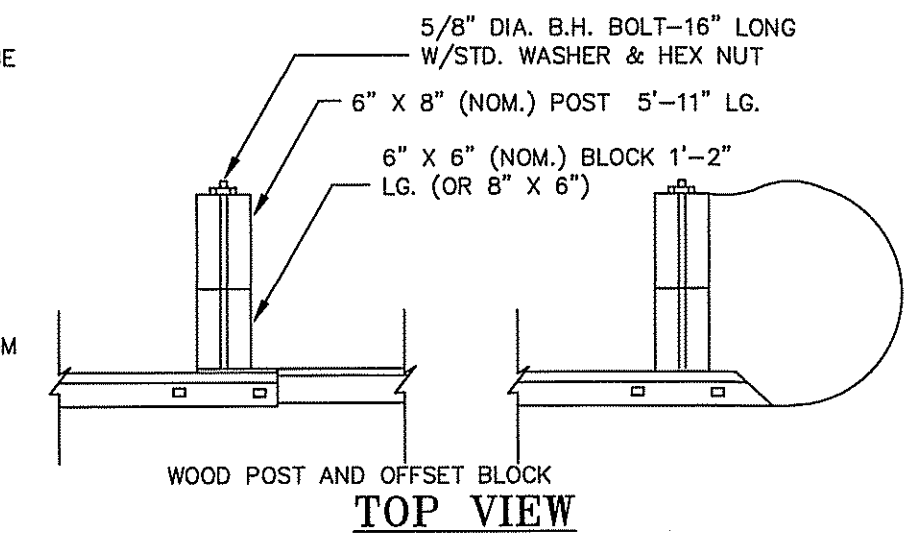
PIPE DIA. ± 1"	A (MAX.) ± 1"	B (MAX.) ± 1"	H ± 1.5"	L ± 2"	W ± 2"	APPROX. SLOPE	BODY
12"	6"	6"	6"	21"	24"	2.5:1	1 PC.
15"	7"	8"	6"	26"	30"	2.5:1	1 PC.
18"	8"	10"	6"	31"	36"	2.5:1	1 PC.
21"	9"	12"	6"	36"	42"	2.5:1	1 PC.
24"	10"	13"	6"	41"	48"	2.5:1	1 PC.
30"	12"	16"	8"	51"	60"	2.5:1	2 PC.
36"	14"	19"	9"	60"	72"	2.5:1	2 PC.
42"	16"	22"	11"	69"	84"	2.5:1	2 PC.
48"	18"	27"	12"	78"	90"	2.25:1	2 PC.
54"	18"	30"	12"	84"	102"	2:1	2 PC.
60"	18"	33"	12"	87"	114"	1.75:1	3 PC.

FLARED END SECTION (PE)
NOT TO SCALE

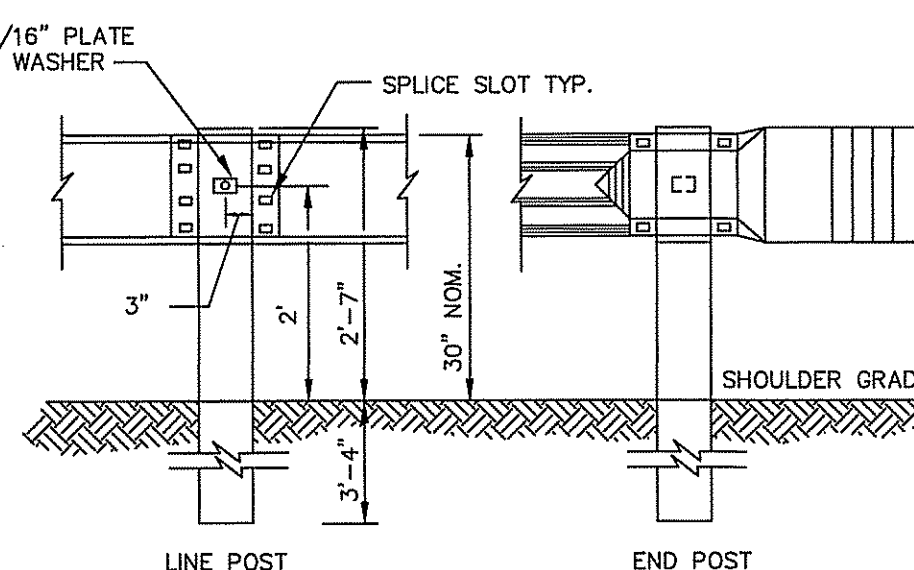
1. OFFSET BLOCKS, ANCHORS, PLATES, AND ALL FITTINGS TO BE GALVANIZED.
2. ALL DIMENSIONS SUBJECT TO MFG.'S TOLERANCES.
3. RAIL PANELS AND END SECTIONS TO BE 12 GA. STEEL.
4. ALL PARTS SHALL CONFORM TO CURRENT STANDARD SPECIFICATIONS.
5. WHEN GUARD RAIL IS CONSTRUCTED AT UP TO 4' FROM EDGE OF PAVEMENT THE GUARD RAIL HEIGHT WILL BE SET FROM THE GRADE AT THE EDGE PAVEMENT. WHEN GUARD RAIL IS CONSTRUCTED AT MORE THAN FOUR FEET FROM THE EDGE OF PAVEMENT THE GUARD RAIL WILL BE SET FROM THE GRADE AT FACE OF RAIL.



SIDE VIEW

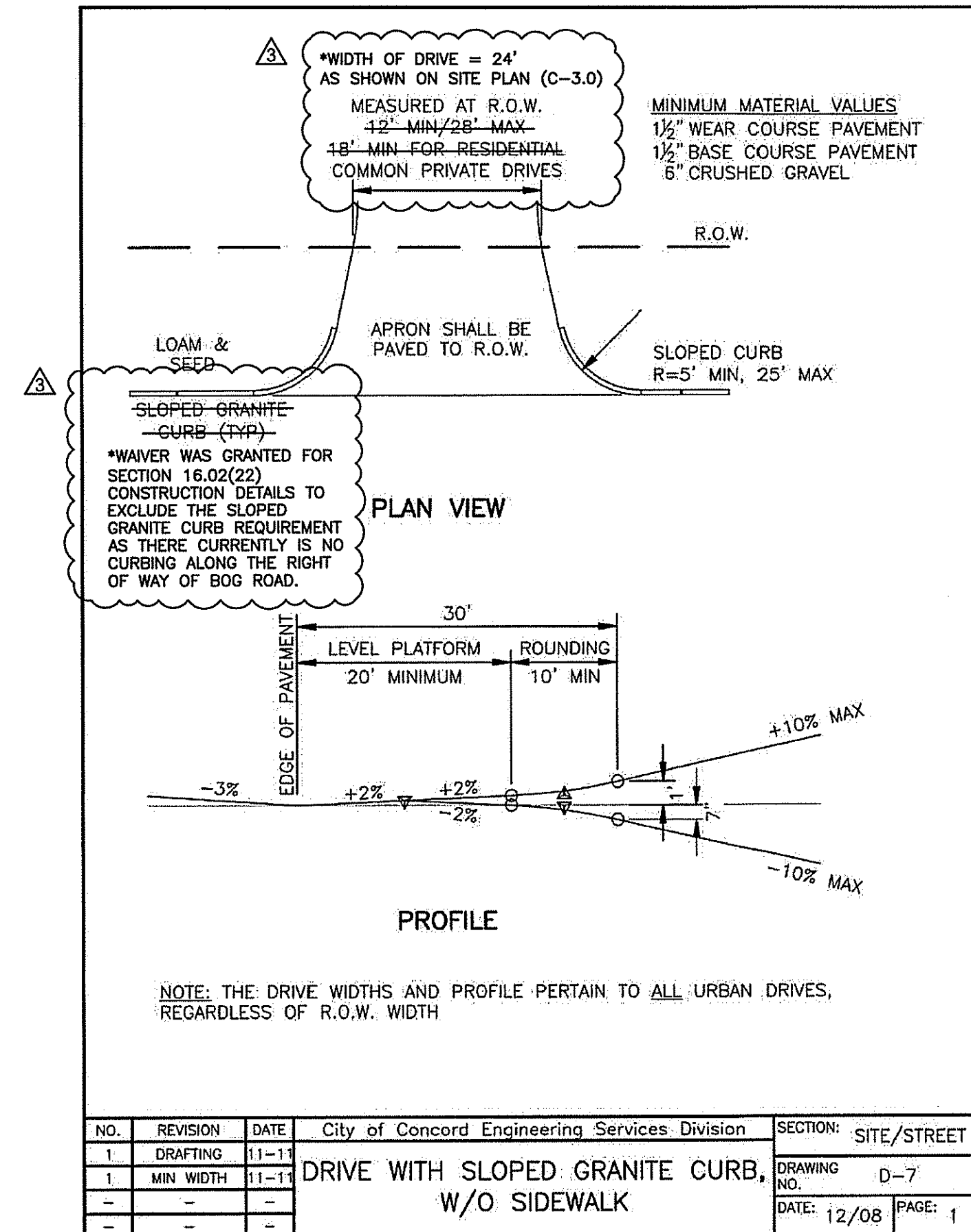


TOP VIEW



FRONT VIEW

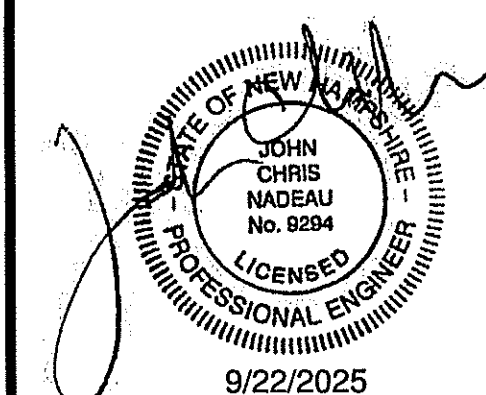
GUARD RAIL DETAIL
NOT TO SCALE



NOTE: THE DRIVE WIDTHS AND PROFILE PERTAIN TO ALL URBAN DRIVES, REGARDLESS OF R.O.W. WIDTH

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: SITE/STREET
1	DRAFTING	11-1-11		
1	MIN WIDTH	11-1-11	DRIVE WITH SLOPED GRANITE CURB, W/O SIDEWALK	DRAWING NO. D-7
				DATE: 12/08 PAGE: 1

nobis
Nobis Group®
18 Chanell Drive
Concord, NH 03301
T(603) 224-4182
www.nobis-group.com



ISSUED FOR
CONSTRUCTION

**NHSCOT
HEADQUARTERS**
125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 322 / LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

NO.	DATE	DESCRIPTION
09/03/2025		CITY OF CONCORD AND AOT COMMENTS
06/20/2025		CITY OF CONCORD AND AOT COMMENTS
04/28/2025		NHFG COMMENTS

REVISIONS

SCALE:
AS NOTED

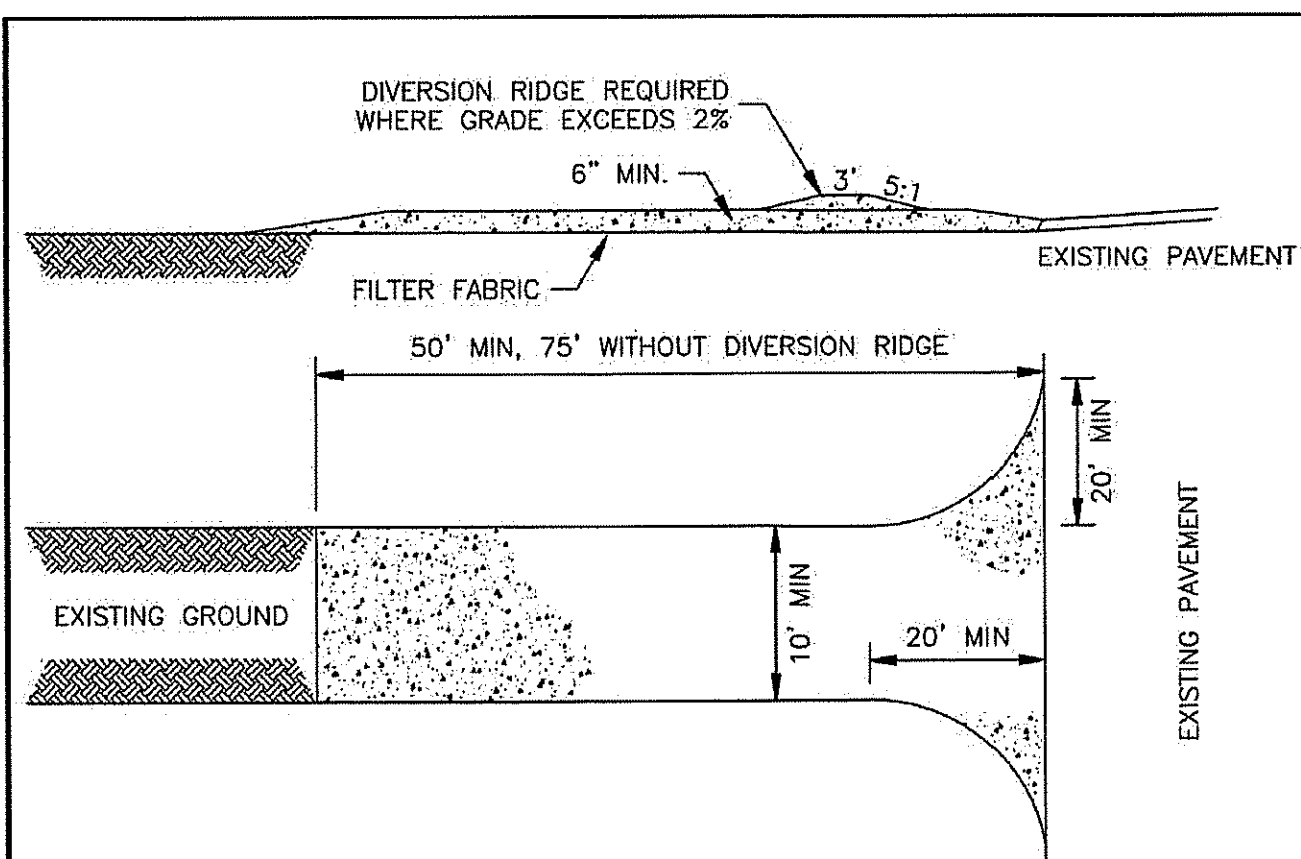
DATE:	FEBRUARY 18, 2025
NOBIS PROJECT NO.	100661.000
DRAWN BY:	KLR & MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-700 DETAILS.dwg

SHEET TITLE

**CONSTRUCTION
DETAILS**

SHEET

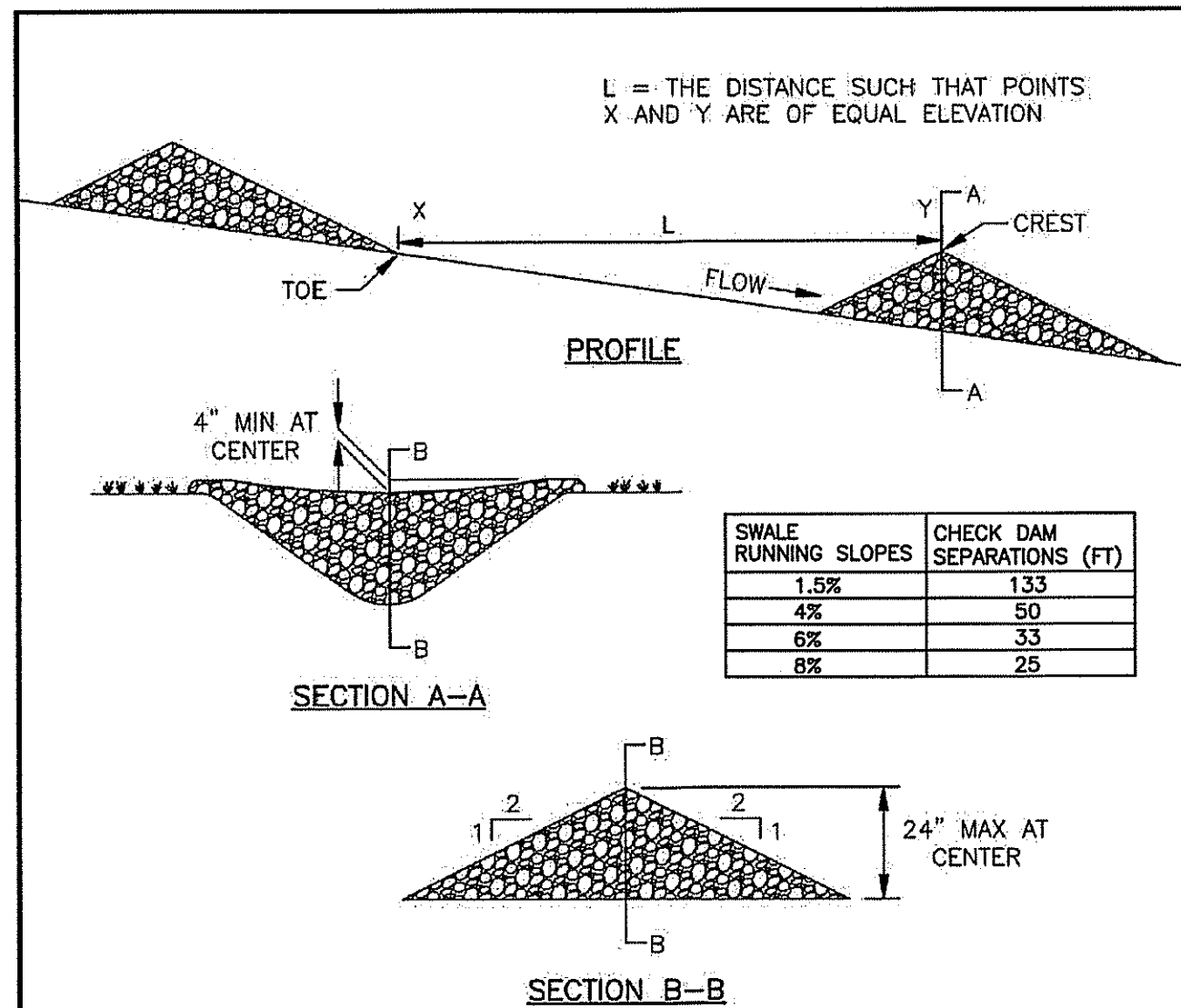
C-6.2



CONSTRUCTION ENTRANCE
DETAIL

1. STONE SIZE - 3" COARSE AGGREGATE.
2. THICKNESS - 6" MIN
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. LENGTH - NOT LESS THAN 50'. EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MIN LENGTH WOULD APPLY.
7. WIDTH - 10' MIN BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
8. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.
9. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
10. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
11. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

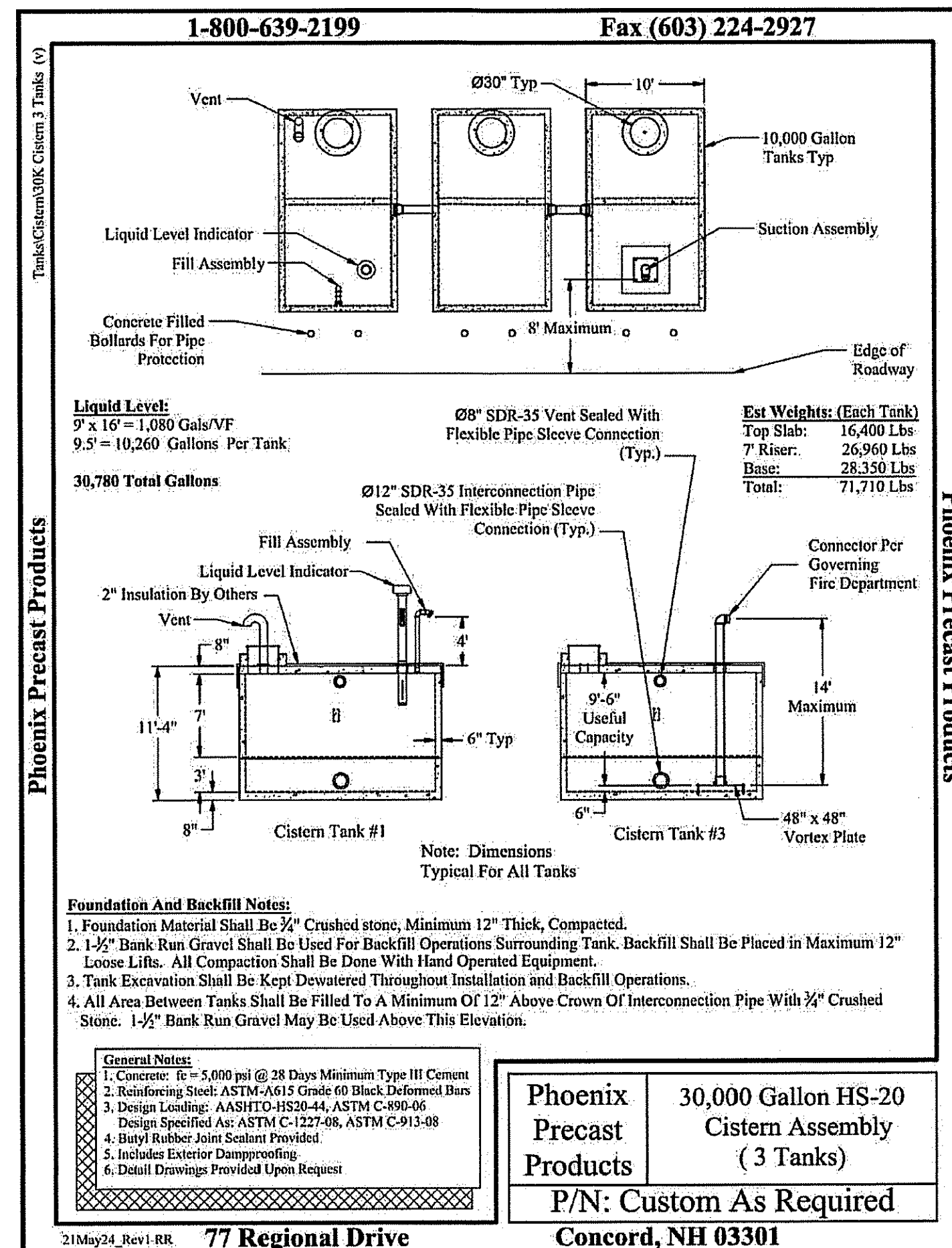
NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: EPSC
			CONSTRUCTION ENTRANCE DETAIL	DRAWING NO. E-1
				DATE: 01/08 PAGE: 1



CONSTRUCTION REQUIREMENTS

1. PLACE STONE TO THE LINES, GRADES AND LOCATIONS AS SHOWN ON THE PLAN OR AS DIRECTED.
2. SET SPACING OF STONE CHECK DAMS SO THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE TO A POINT BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS NEEDED OR DIRECTED.
5. REMOVE STONE, AS DIRECTED, WHEN NO LONGER NEEDED. AFTER BARRIER IS REMOVED, STABILIZE ANY SEDIMENT WHICH IS PERMITTED TO STAY IN PLACE WITH VEGETATION.

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: EPSC
			STONE CHECK DAM DETAILS	DRAWING NO. E-3
				DATE: 01/08 PAGE: 1



Foundation And Backfill Notes:

1. Foundation Material Shall Be 3/4\"/>

General Notes:

1. Concrete: 15-5000 psi @ 28 Days Minimum Type III Cement
2. Reinforcing Steel: ASTM-A615 Grade 60 Black Deformed Bars
3. Design Loading: AASHTO-HS20-44, ASTM C-890-06
4. Design Specified As: ASTM C-1227-08, ASTM C-913-08
5. Includes Exterior Dampening
6. Detail Drawings Provided Upon Request

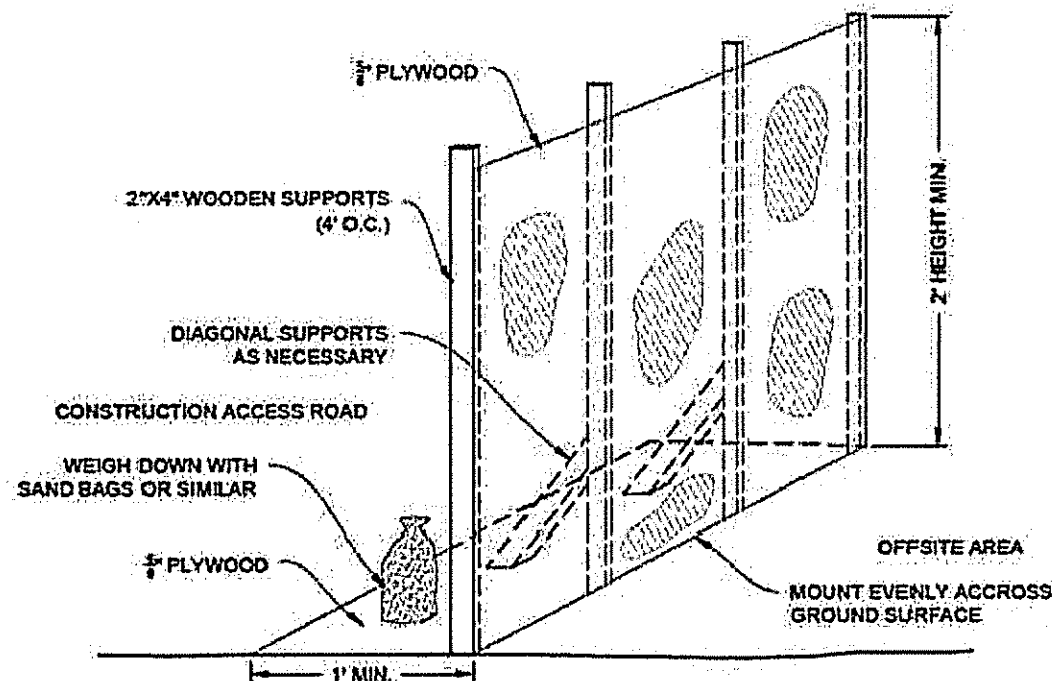
Phoenix
Precast
Products
P/N: Custom As Required
Concord, NH 03301

M.U.T.C.D. NUMBER	SPECIFICATION		MOUNTING HEIGHT	SIGN
WIDTH	HEIGHT			
R1-1	30"	30"	7'-0"	STOP
R7-8	12"	18"	7'-0"	RESERVED PARKING
R7-8A	12"	6"	6'-5"	VAN ACCESSIBLE
R8-3A	12"	18"	7'-0"	NO PARKING

- NOTE:
1. MOUNTING HEIGHT IS THE CLEARANCE OF THE BOTTOM OF THE SIGN TO THE NEAREST EDGE OF PAVEMENT.
 2. ALL SIGN POSTS SHALL BE 2.5#/.FT. U-CHANNEL POSTS, PAINTED GREEN AND CONFORM TO NHDOT SPECIFICATION 615.2.5.3.
 3. ALL SIGNS SHALL BE FABRICATED OF DIAMOND GRADE SHEETING.

SIGN SUMMARY

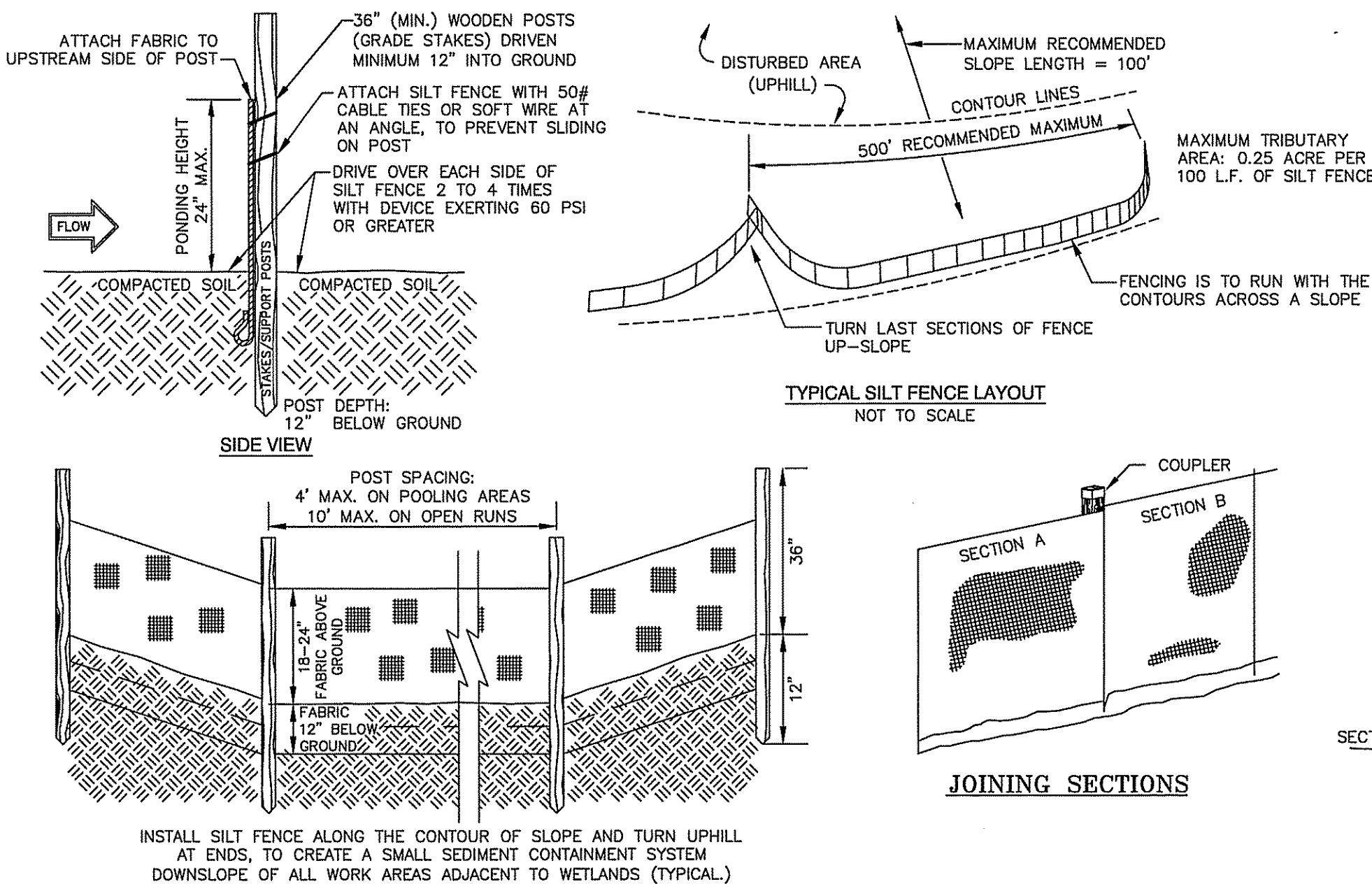
NOT TO SCALE



- NOTES:
1. THE PLYWOOD BARRIER SHALL REMAIN IN PLACE ANY TIME THE ENTRANCE IS NOT ACTIVELY IN USE, EVEN DURING THE WORK DAY.
 2. EACH SECTION OF PLYWOOD BARRIER SHALL OVERLAP THE ADJACENT SECTION TO ENSURE THAT ALL OPENINGS ARE BLOCKED COMPLETELY.

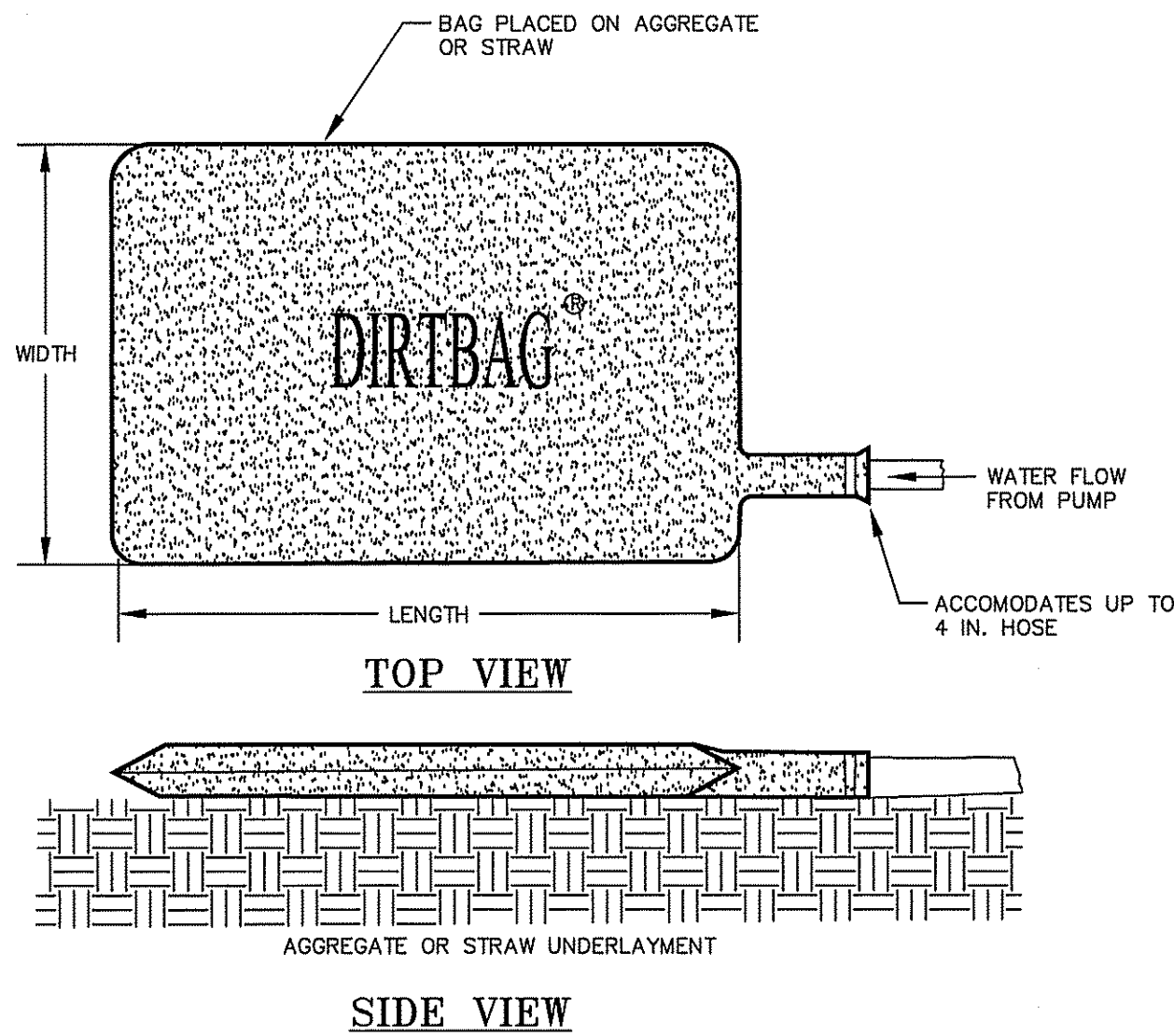
WILDLIFE EXCLUSIONARY BARRIER GATE

NOT TO SCALE



WILDLIFE EXCLUSIONARY BARRIER INSTALLATION

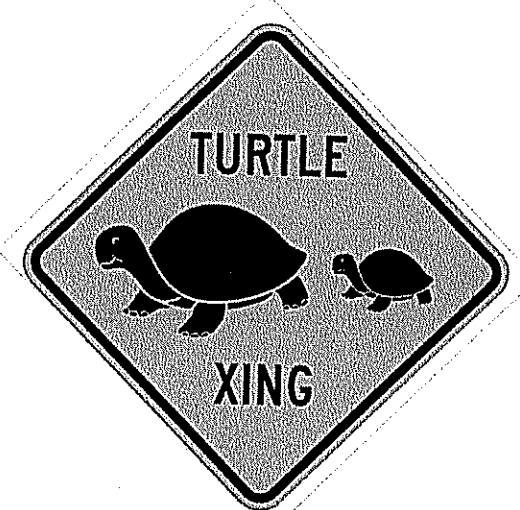
NOT TO SCALE



- NOTES:
1. PLACE THE BAG ON A LEVEL STABILIZED AREA OVER DENSE STRAW OR GRAVEL.
 2. INSERT DISCHARGE HOSE FROM PUMP A MINIMUM OF SIX INCHES AND TIGHTLY SECURE WITH ATTACHED STRAP.
 3. REPLACE THE UNIT WHEN ONE HALF (1/2) FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW TO AN IMPRACTICAL RATE.
 4. REMOVE UNIT FROM ENVIRONMENTALLY SENSITIVE AREAS AND DISPOSE OF THE SEDIMENT AT AN APPROPRIATE SITE.

DIRTBAG

NOT TO SCALE

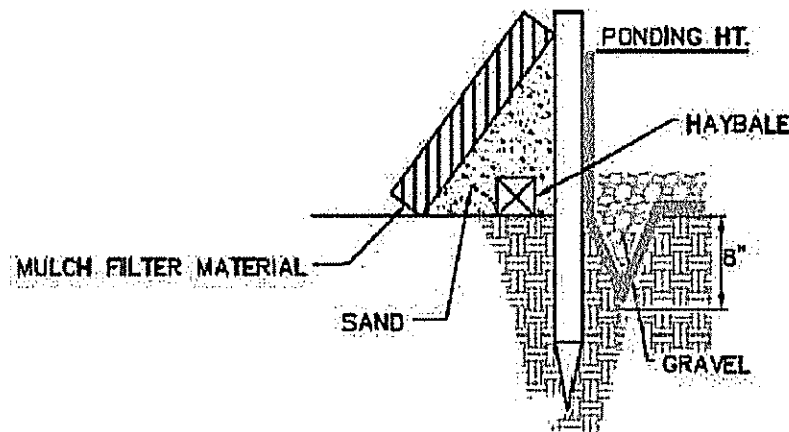
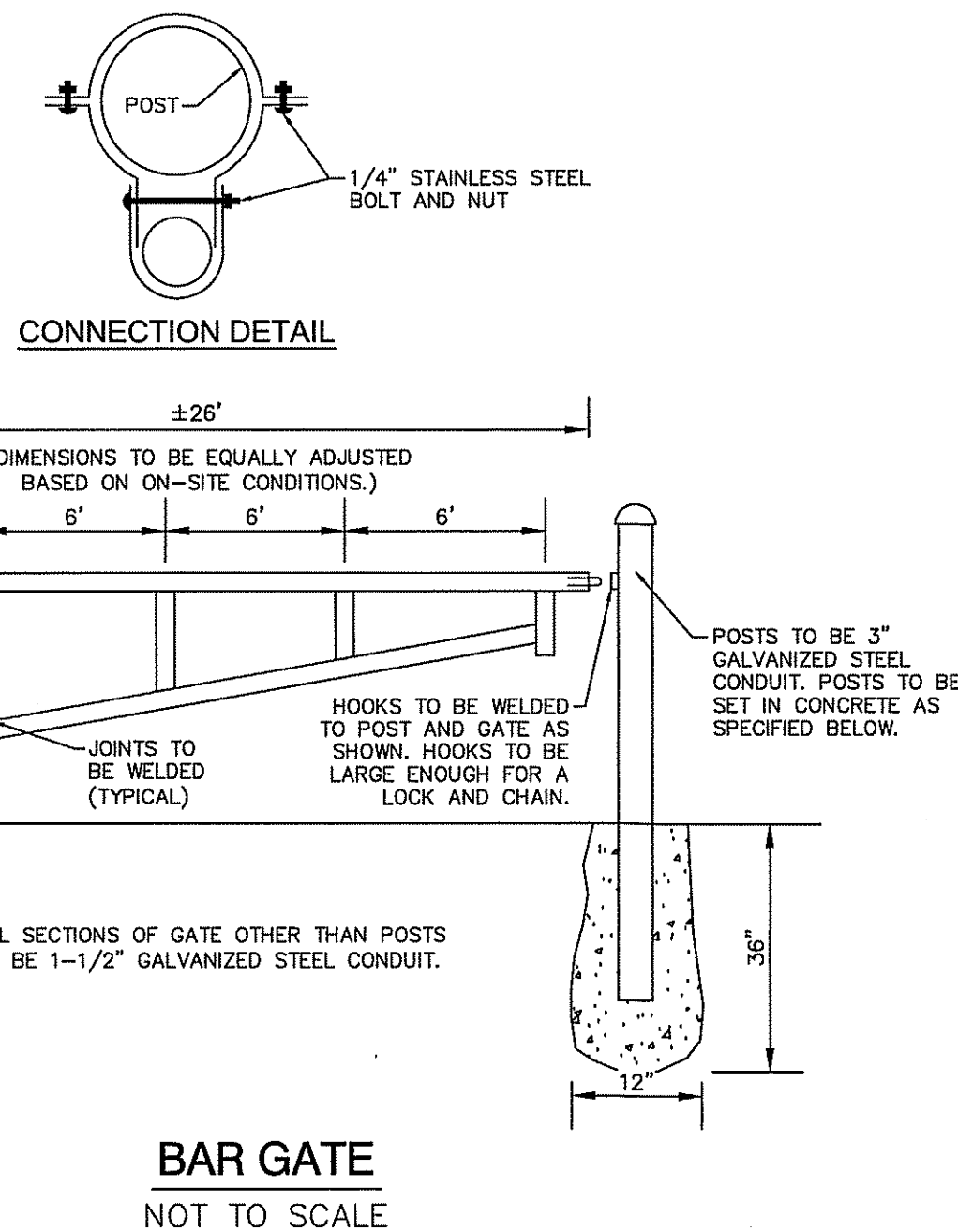
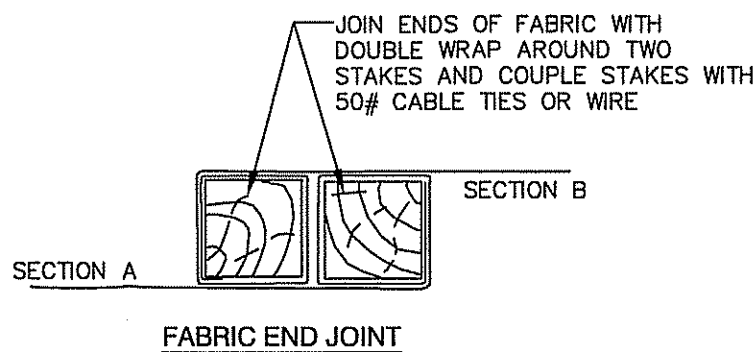


WILDLIFE CROSSING SIGN

NOT TO SCALE

SPECIFICATIONS FOR SILT FENCE INSTALLATION

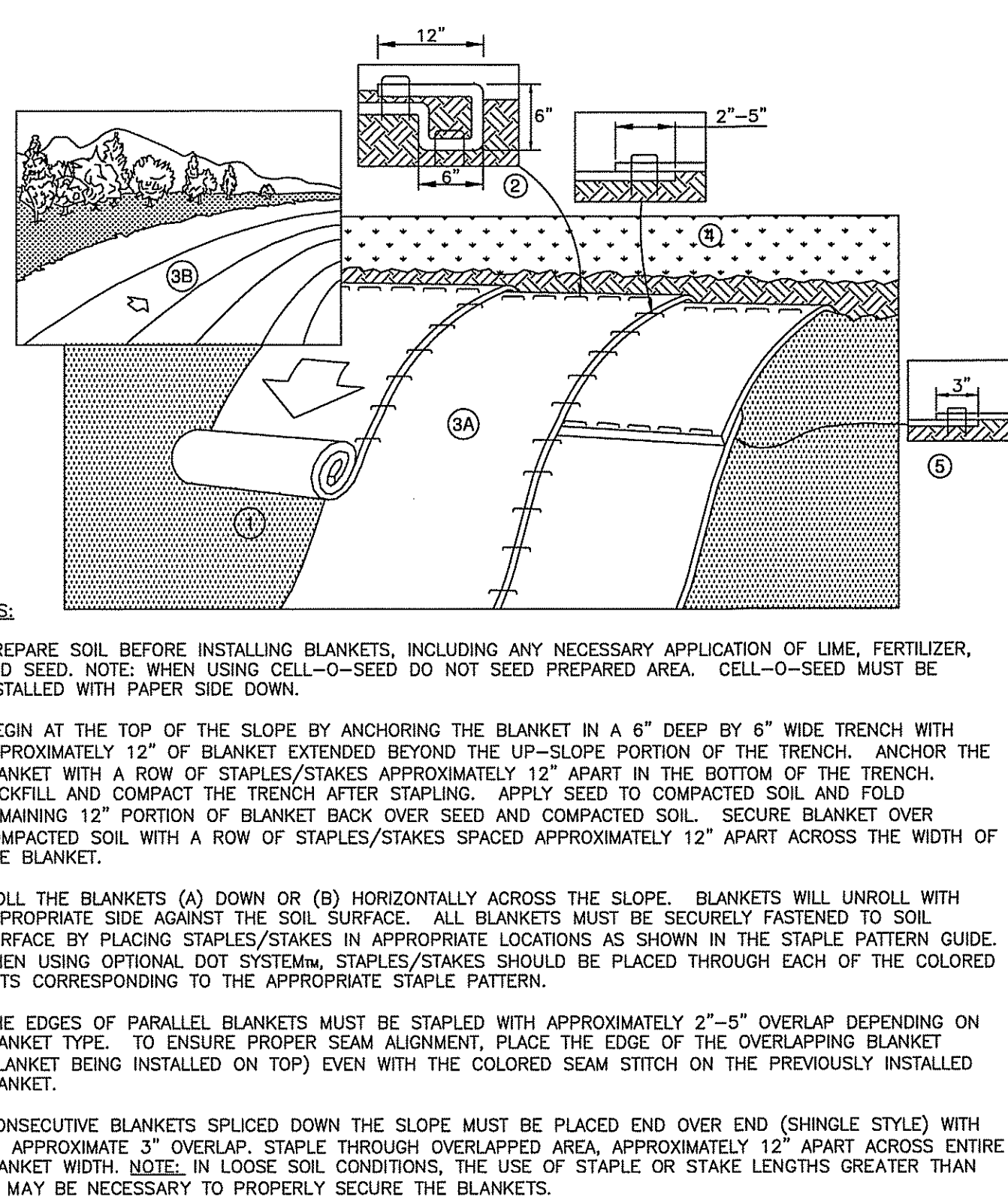
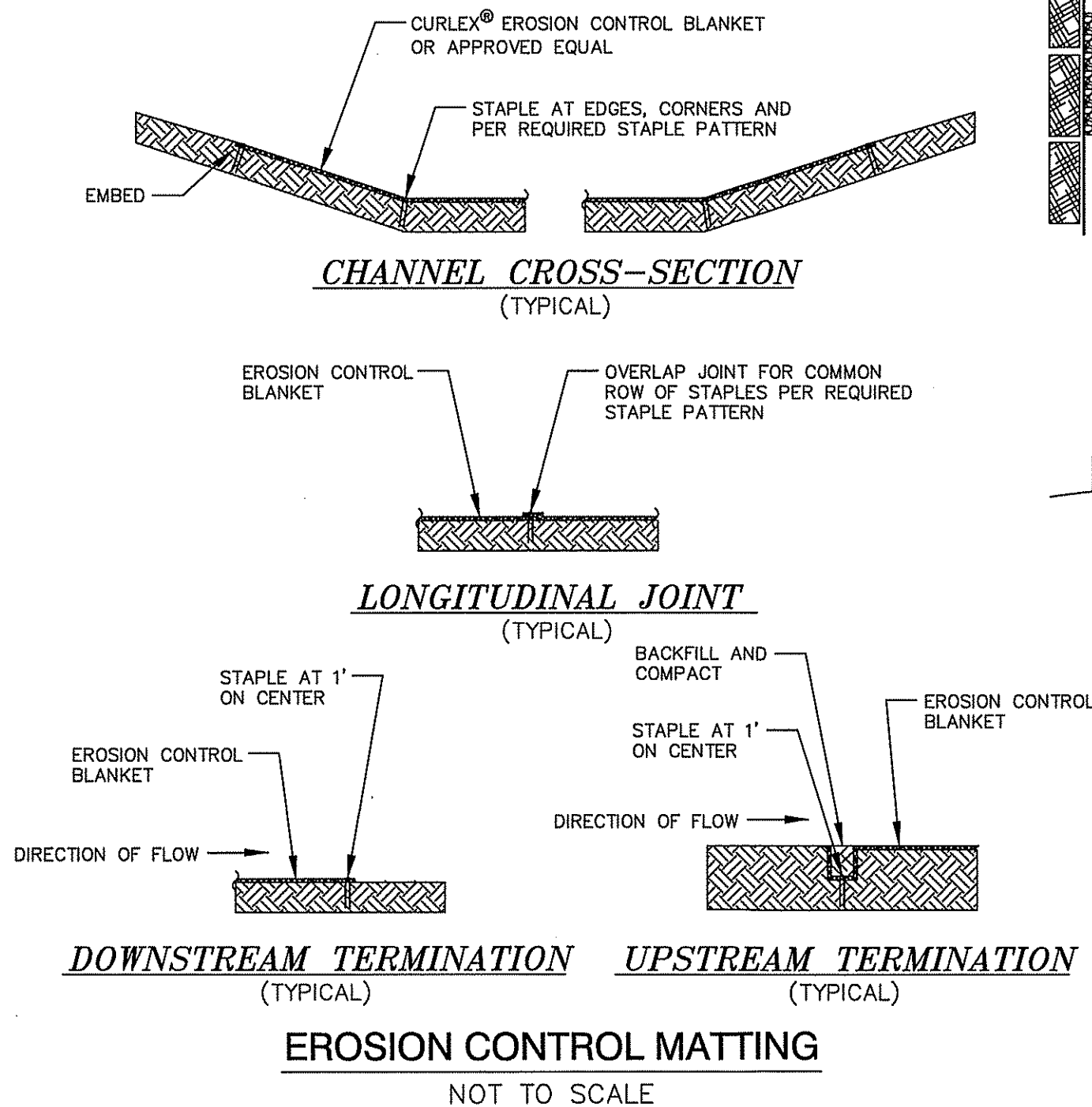
1. INSTALL POSTS 4 FEET APART IN CRITICAL WATER RETENTION AREAS AND 6-10 FEET APART ON STANDARD APPLICATIONS.
2. INSTALL POSTS 12 INCHES DEEP ON THE DOWN HILL SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC.
3. SECURELY ATTACH THE FABRIC TO EACH POST WITH TIES SECURED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 2" VERTICALLY APART.
4. WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
5. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION. USE A FLAT-BLADED SHOVEL TO TUCK FABRIC DEEPER INTO THE SILT IF NECESSARY.
6. COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQUARE INC
7. THE WILDLIFE EXCLUSIONARY BARRIER (E.G., SILT FENCE) SHALL BE INSTALLED BETWEEN THE WETLANDS AND CONSTRUCTION SITE AS SOON AS FEASIBLE AND MAINTAINED BETWEEN APRIL 15 AND OCTOBER 15 THROUGHOUT THE LIFE OF THE ACTIVE PROJECT/CONSTRUCTION ACTIVITIES. THE WILDLIFE EXCLUSIONARY BARRIER SHOULD BE BURIED TO A DEPTH OF NO LESS THAN 6-8" AND EXTEND NO LESS THAN 18" ABOVE EXISTING GRADE. THE WILDLIFE EXCLUSIONARY BARRIER SHOULD BE INSPECTED DAILY FOR ANY DEFECTS AS WELL AS POSSIBLE TRAPPED WILDLIFE PRIOR TO SITE CONSTRUCTION ACTIVITIES.



- NOTES:
1. THE WILDLIFE ESCAPE MOUNDS ("RAMPS") SHOULD BE INSTALLED ON THE INTERIOR OF THE WILDLIFE EXCLUSIONARY BARRIER ALLOWING FOR POTENTIALLY ENTRAPPED WILDLIFE TO ESCAPE FROM THE PROJECT AREA. RAMPS SHOULD BE CONSTRUCTED ON THE WORK-ZONE SIDE OF THE WILDLIFE EXCLUSIONARY BARRIER.
 2. THE RAMPS SHOULD BE CONSTRUCTED OUT OF NATIVE MATERIAL (SAND/SOIL) FROM THE SITE AND SHALL BE AT A MINIMUM OF 3 FEET IN WIDTH. ADDITIONAL TALL STAKES SHOULD BE INSTALLED IN THE LOCATION OF THESE RAMPS TO HELP SUPPORT THE SILT FENCING AS NEEDED.
 3. WILDLIFE ESCAPE MOUNDS SHOULD BE INSTALLED AT LEAST EVERY 75 FEET ALONG THE WILDLIFE EXCLUSIONARY BARRIER AND MOUNDS SHOULD NOT BE INSTALLED ON SIDES OF THE BARRIER THAT BORDER ROADS.

WILDLIFE RAMP DETAIL (TRENCH WITH GRAVEL)

NOT TO SCALE

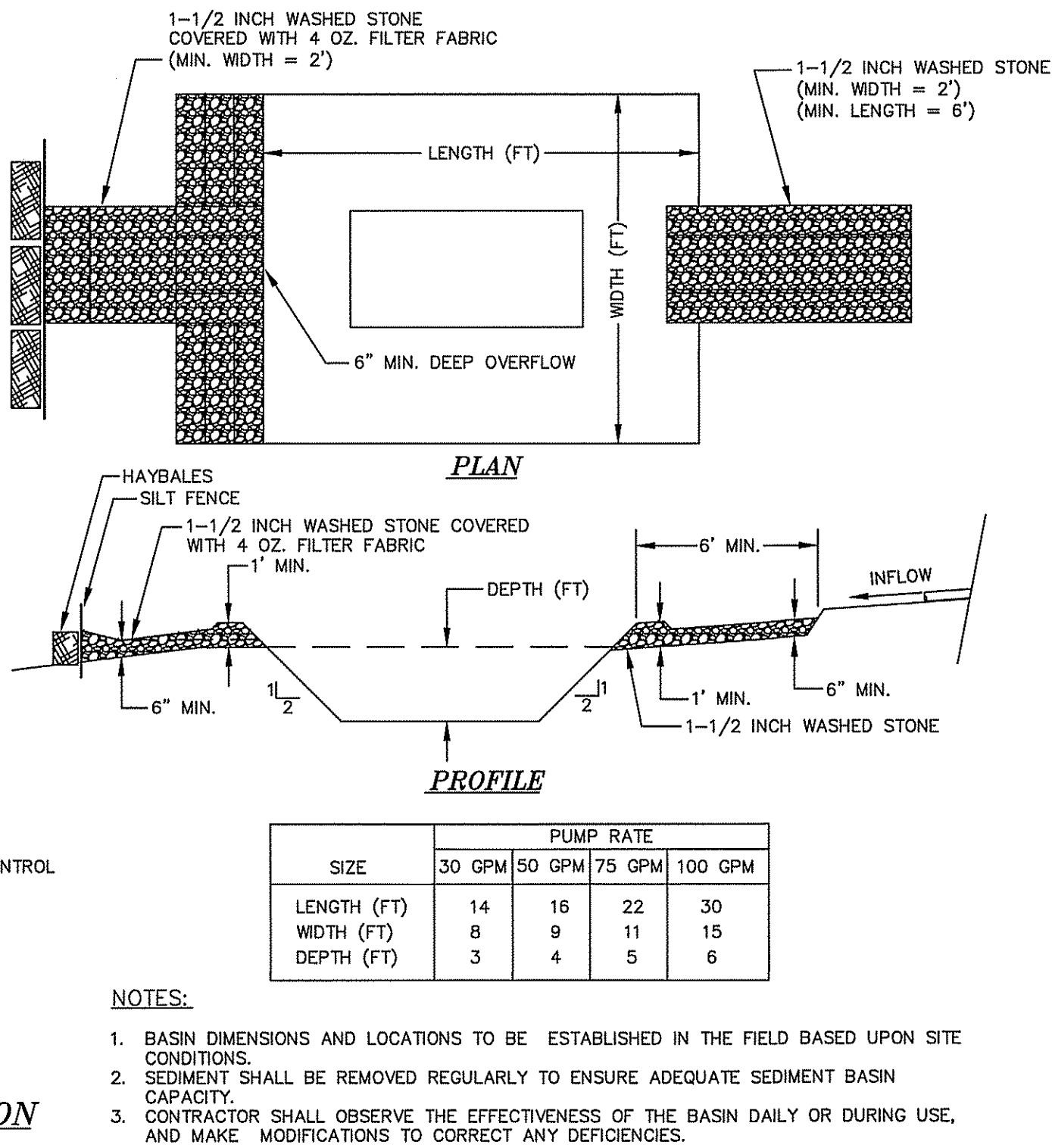


- NOTES:
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/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 OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" 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 OPTIONAL 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" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

NORTH AMERICAN GREEN
14649 HIGHWAY 41 NORTH
EVANSVILLE, INDIANA 47725
1-800-772-2040

EROSION CONTROL BLANKET SLOPE INSTALLATION (NORTH AMERICAN GREEN)

NOT TO SCALE

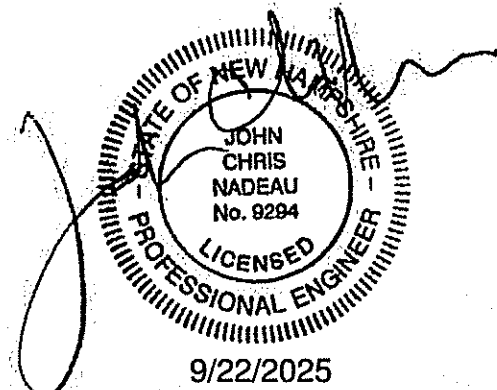


- NOTES:
1. BASIN DIMENSIONS AND LOCATIONS TO BE ESTABLISHED IN THE FIELD BASED UPON SITE CONDITIONS.
 2. SEDIMENT SHALL BE REMOVED REGULARLY TO ENSURE ADEQUATE SEDIMENT BASIN CAPACITY.
 3. CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE BASIN DAILY OR DURING USE, AND MAKE MODIFICATIONS TO CORRECT ANY DEFICIENCIES.

TEMPORARY SEDIMENTATION/DEWATERING BASIN

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NHSCOT HEADQUARTERS
125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE
TAX MAP:
MAP 322 / LOT 59
OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105
APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

NO.	DATE	DESCRIPTION
09/03/2025		CITY OF CONCORD AND AOT COMMENTS
06/20/2025		CITY OF CONCORD AND AOT COMMENTS
04/28/2025		NHFG COMMENTS

REVISIONS

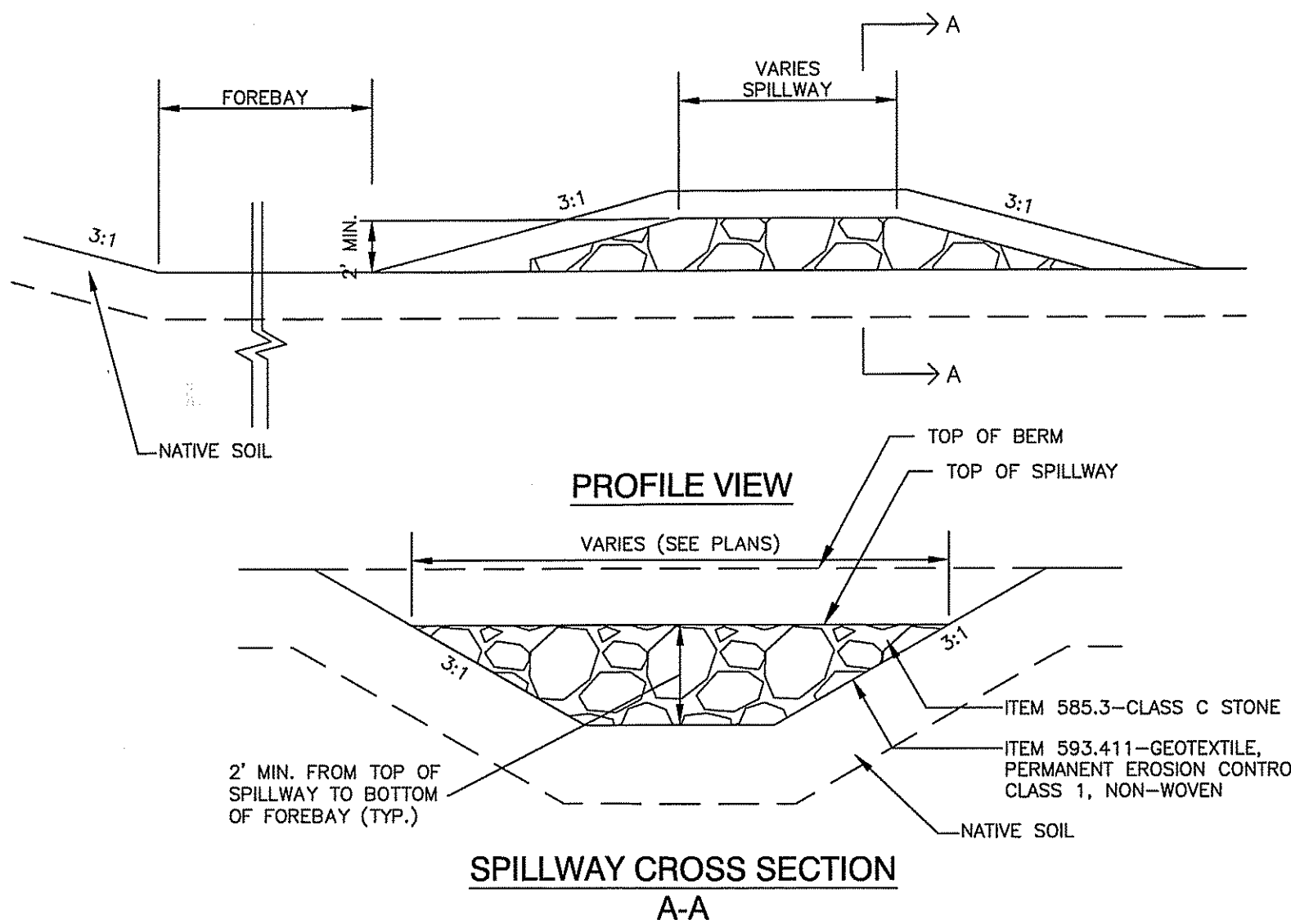
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DATE:	FEBRUARY 18, 2025
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CHECKED BY:	JCN
CAD DRAWING FILE:	100661.000-C-700 DETAILS.dwg
SHEET TITLE	

CONSTRUCTION DETAILS

SHEET

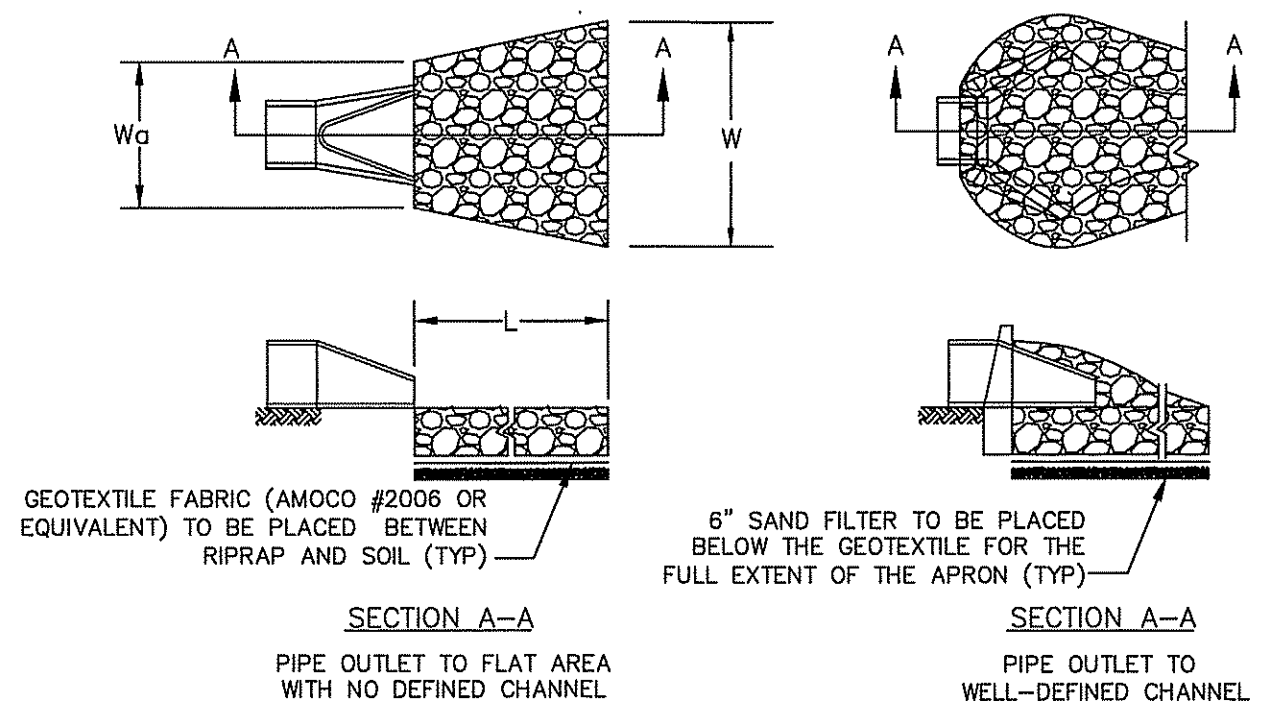
C-6.3



- NOTES:**
1. TEST NATIVE SOIL MATERIAL TO DETERMINE INFILTRATION RATE. PROVIDE RESULTS TO ENGINEER. AMEND NATIVE SOIL MATERIAL TO A MINIMUM DEPTH OF 24 INCHES BELOW BASE STONE BY ADDING MATERIAL MEETING GRADATION REQUIREMENTS AS SPECIFIED BY ENGINEER BASED ON INITIAL TEST RESULTS. RESULTANT INFILTRATION RATE SHALL BE NOT MORE THAN 8-10 INCHES/HOUR.
 2. CONFIRMATORY INFILTRATION LAB TESTING IS REQUIRED IN ACCORDANCE WITH ENV-WQ 1504.14. RESULTS MUST BE PROVIDED TO NHDES WITHIN SEVEN DAYS OF TESTING.
 3. A PE, CSS OR PD MUST CONFIRM THAT THERE IS AT LEAST 1 FOOT OF SEPARATION FROM THE BOTTOM OF THE AMENDED SOIL TO THE SEASONAL HIGH WATER TABLE AND WRITTEN CONFIRMATION OF THE REQUIRED SEPARATION TO THE SHWT MUST BE SUBMITTED TO DES PRIOR TO INSTALLATION OF AMENDED SOILS.

SEDIMENT FOREBAY DETAIL

NOT TO SCALE



STRUCTURE	W ₀	W	L	RIP RAP SIZE D50 (INCHES)	RIP RAP THICKNESS (INCHES)
FES-1	3	13	10	4	9
FES-2	4	14	10	4	9
GRASS SWALE (DRIVE)	5	21	15	4	9

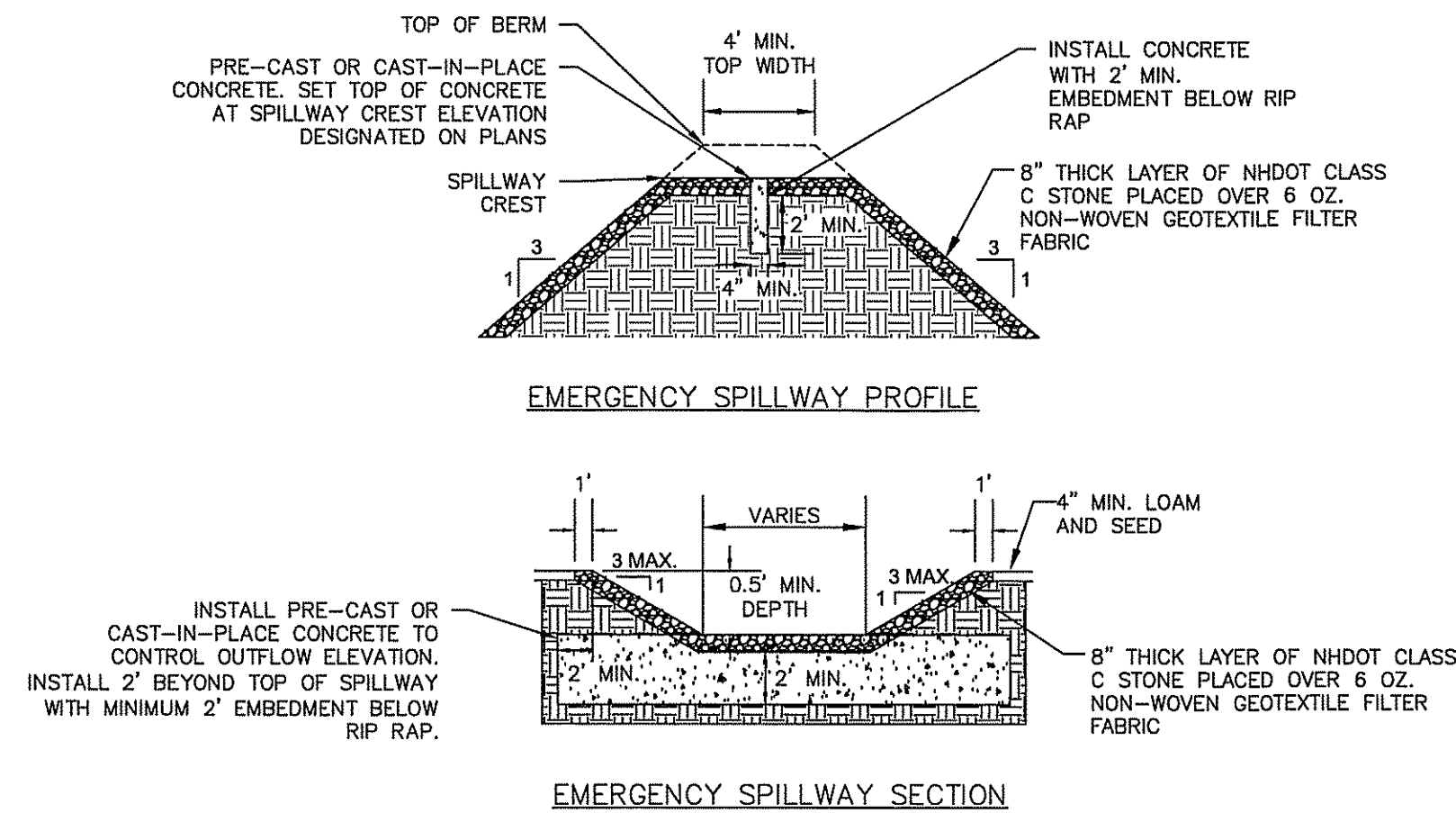
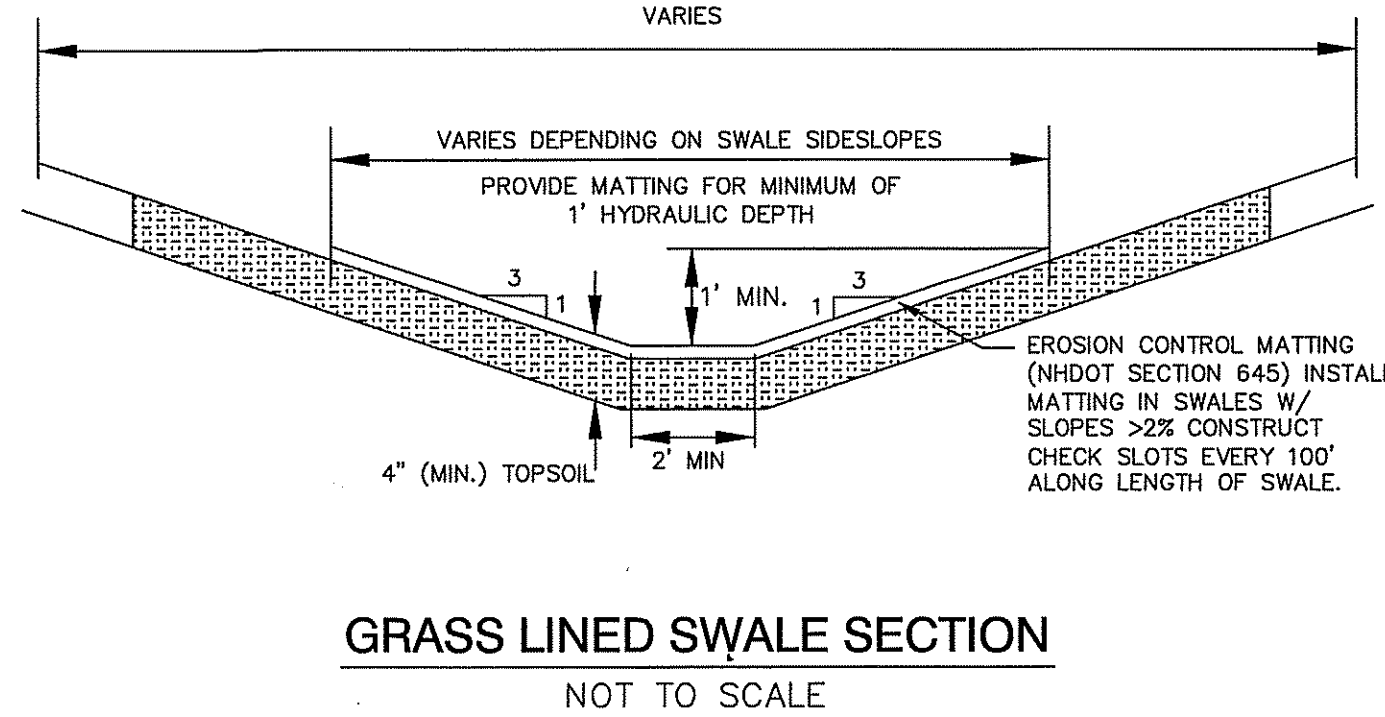
TABLE 7-24---RECOMMENDED RIPRAP GRADATION RANGES			
THICKNESS OF RIPRAP = (2.25x d50) FEET (8" min)			
d50 SIZE=	X	FEET	X INCHES
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE		SIZE OF STONE (INCHES) FROM	TO
100%		(1.5x d50)	(2.0x d50)
85%		(1.3x d50)	(1.8x d50)
50%		(1.0x d50)	(1.5x d50)
15%		(0.3x d50)	(0.5x d50)

NOTES:

1. THE SUBGRADE FOR THE GEOTEXTILE FABRIC AND RIPRAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
2. THE RIPRAP SHALL CONFORM TO THE SPECIFIED GRADATION.
3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIPRAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
4. STONE FOR THE RIPRAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
5. OUTLETS TO A DEFINED CHANNEL SHALL HAVE 2:1 OR FLATTER SIDE SLOPES AND SHOULD BEGIN AT THE TOP OF THE CULVERT AND TAPER DOWN TO THE CHANNEL BOTTOM THROUGH THE LENGTH OF THE APRON.
6. **MAINTENANCE:** THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIPRAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO OUTLET PROTECTION.
7. RIP RAP SHOULD BE FILLED WITH FINER MATERIAL (I.E., NATIVE WETLAND MATERIAL, NATIVE WETLAND SEED MIX, OR GRAVEL IN BETWEEN RIP RAP) TO CREATE A RELATIVELY SMOOTH SURFACE FOR WILDLIFE TRAVERSE.

RIP RAP OUTLET PROTECTION APRON

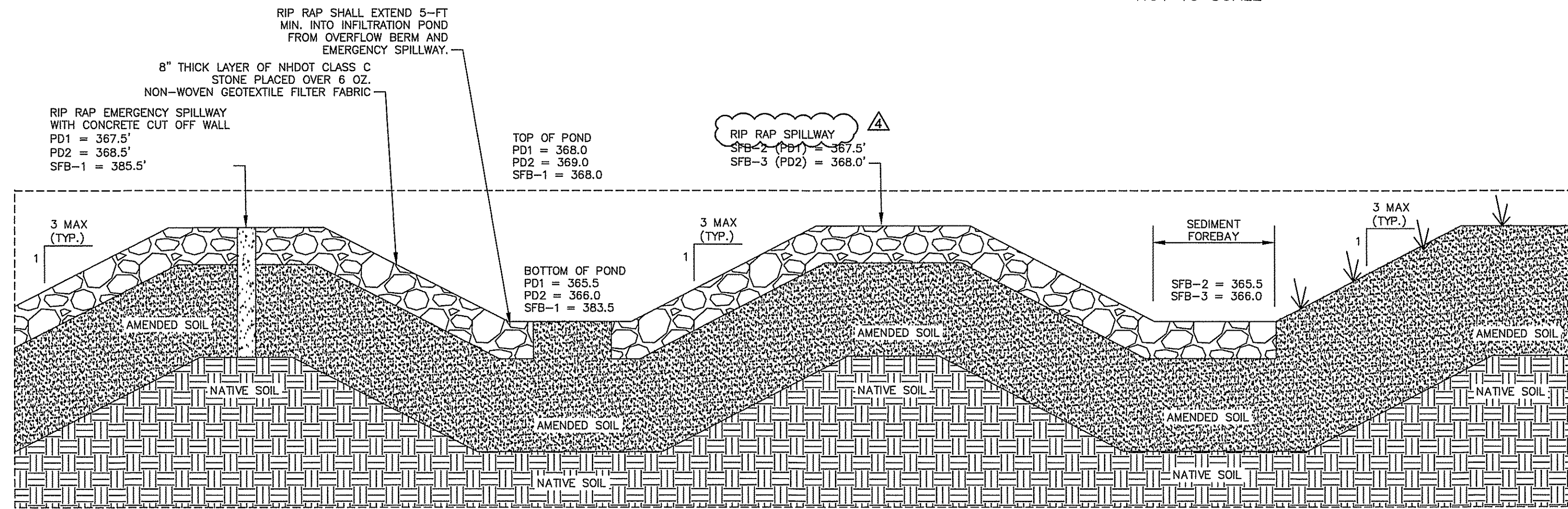
NOT TO SCALE



- NOTES:**
1. RIP RAP SHOULD BE FILLED WITH FINER MATERIAL (I.E., NATIVE WETLAND MATERIAL, NATIVE WETLAND SEED MIX, OR GRAVEL IN BETWEEN RIP RAP) TO CREATE A RELATIVELY SMOOTH SURFACE FOR WILDLIFE TRAVERSE.
 2. 8" THICK LAYER OF NHDOT CLASS C STONE.
 3. INSTALL PRE-CAST OR CAST-IN-PLACE CONCRETE SET AT FINISH GRADE ELEVATION DEPICTED ON PLANS AND OUTLET STRUCTURE DETAILS.

EMERGENCY SPILLWAY WITH CONCRETE CUT OFF WALL

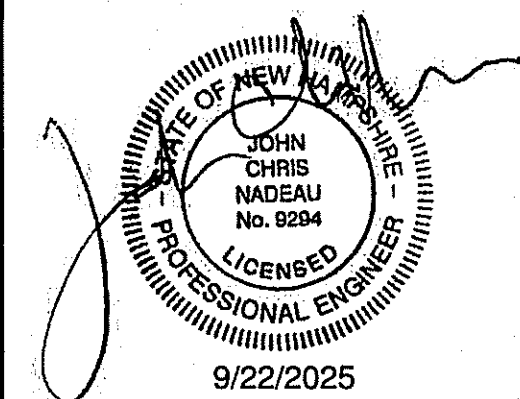
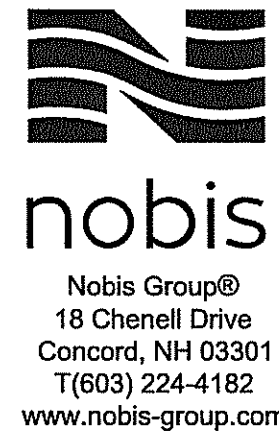
NOT TO SCALE



NOTES:

1. BOTTOM AND SIDE SLOPES SHALL BE STABILIZED WITH 85% VEGETATION PRIOR TO DIRECTING STOMWATER INTO PONDS.
2. EROSION CONTROL BLANKET SHALL BE INSTALLED ON VEGETATED SLOPES.
3. INSTALL 4" LOAM AND SEED ON VEGETATED SLOPES.
4. EXISTING SOIL SHALL BE AMENDED TO A MIN. DEPTH OF 24" BELOW THE PROPOSED BOTTOM AND SIDES OF THE INFILTRATION BASIN TO MEET INFILTRATION REQUIREMENTS.
5. AMENDED SOIL SHALL CONSIST OF:
50%-55% ASTM C-33 CONCRETE SAND
20%-30% LOAMY SAND TOPSOIL WITH 15%-25% FINES PASSING THE NUMBER 200 SIEVE
20%-30% MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH WITH LESS THAN 5% PASSING THE NUMBER 200 SIEVE
6. RIP RAP SHOULD BE FILLED WITH FINER MATERIAL (I.E., NATIVE WETLAND MATERIAL, NATIVE WETLAND SEED MIX, OR GRAVEL IN BETWEEN RIP RAP) TO CREATE A RELATIVELY SMOOTH SURFACE FOR WILDLIFE TRAVERSE.

SPILLWAY/OVERFLOW DIMENSIONS	BREADTH (FT)	LENGTH (FT)	SIDE SLOPES (FT/FT)
SFB-1 (SPILLWAY)	4	20	3:1
SFB-2 (OVERFLOW)	4	25	3:1
SFB-3 (OVERFLOW)	4	50	3:1
PD1 (SPILLWAY)	4	20	3:1
PD2 (SPILLWAY)	4	20	3:1



ISSUED FOR
CONSTRUCTION

NHSCOT HEADQUARTERS

125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 322 / LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

NO.	DATE	DESCRIPTION
1	9/22/2025	CITY OF CONCORD COMMENTS
2	09/03/2025	CITY OF CONCORD AND AOT COMMENTS
3	06/20/2025	CITY OF CONCORD AND AOT COMMENTS
4	04/28/2025	NHFG COMMENTS

REVISIONS

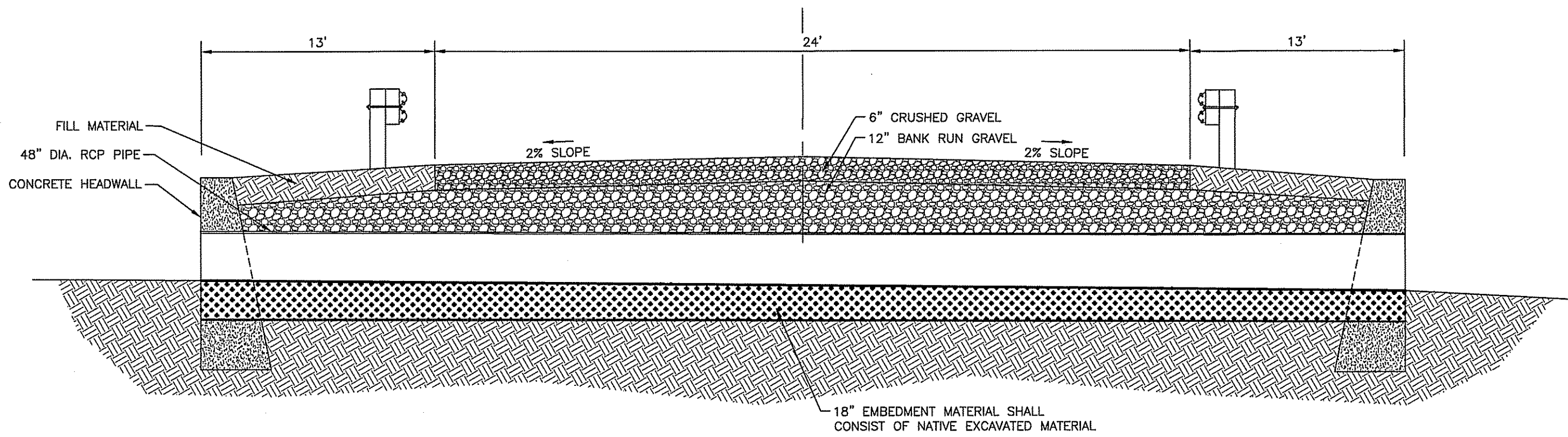
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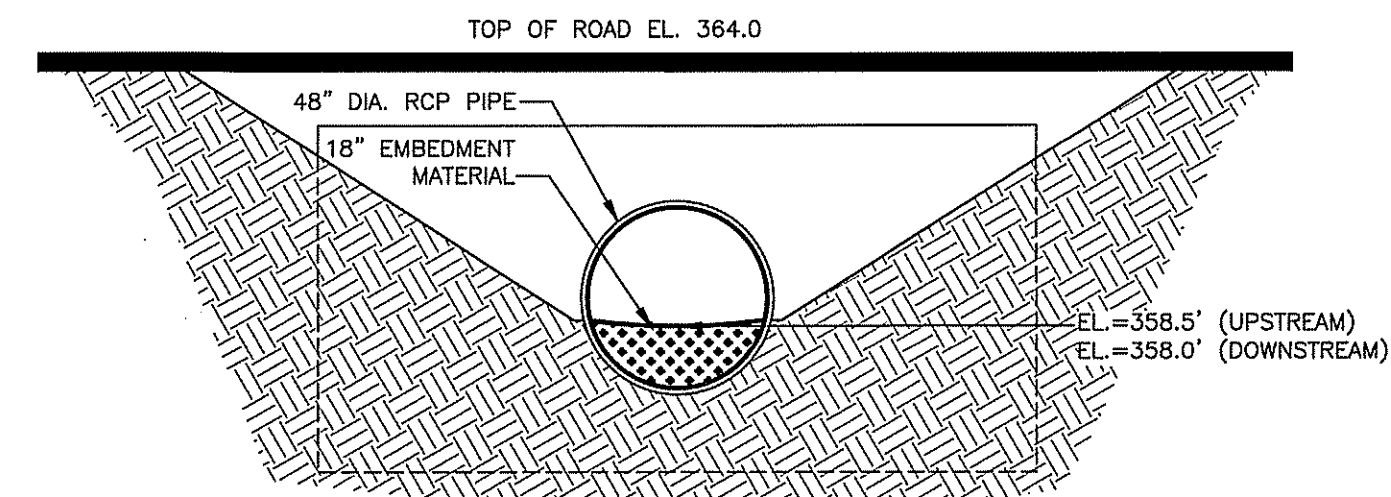
CONSTRUCTION DETAILS

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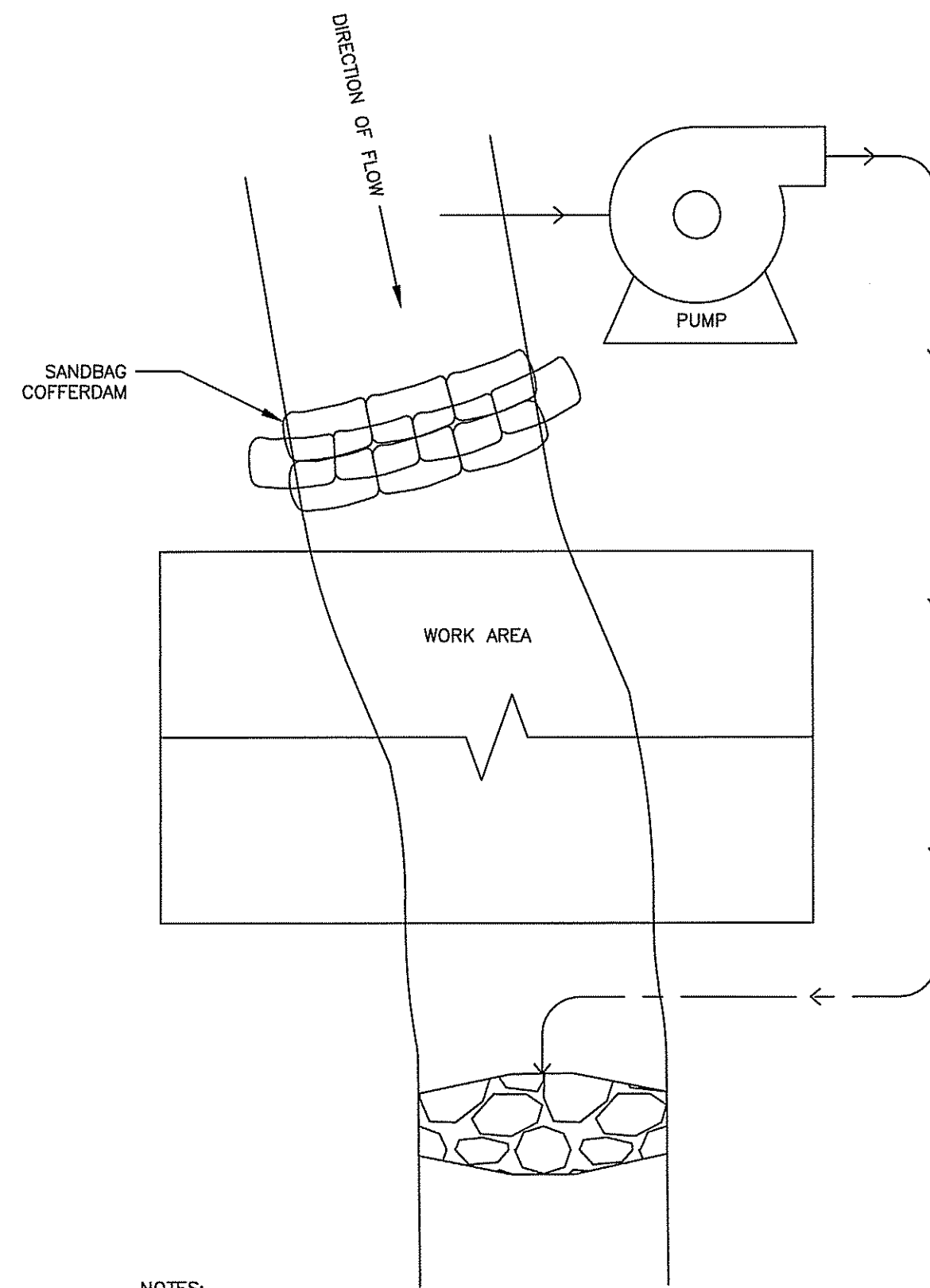
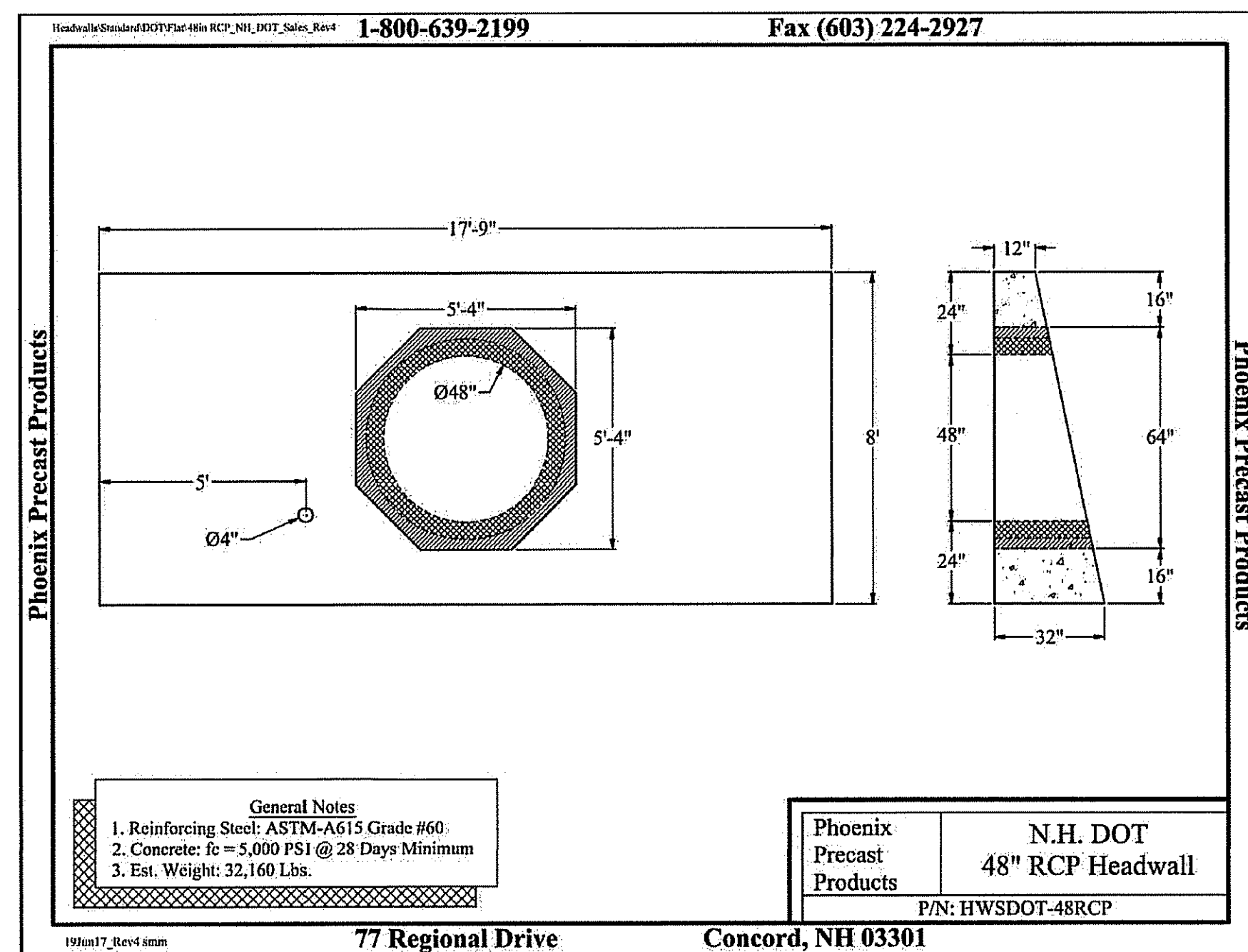
C-6.4



DRIVEWAY SECTION
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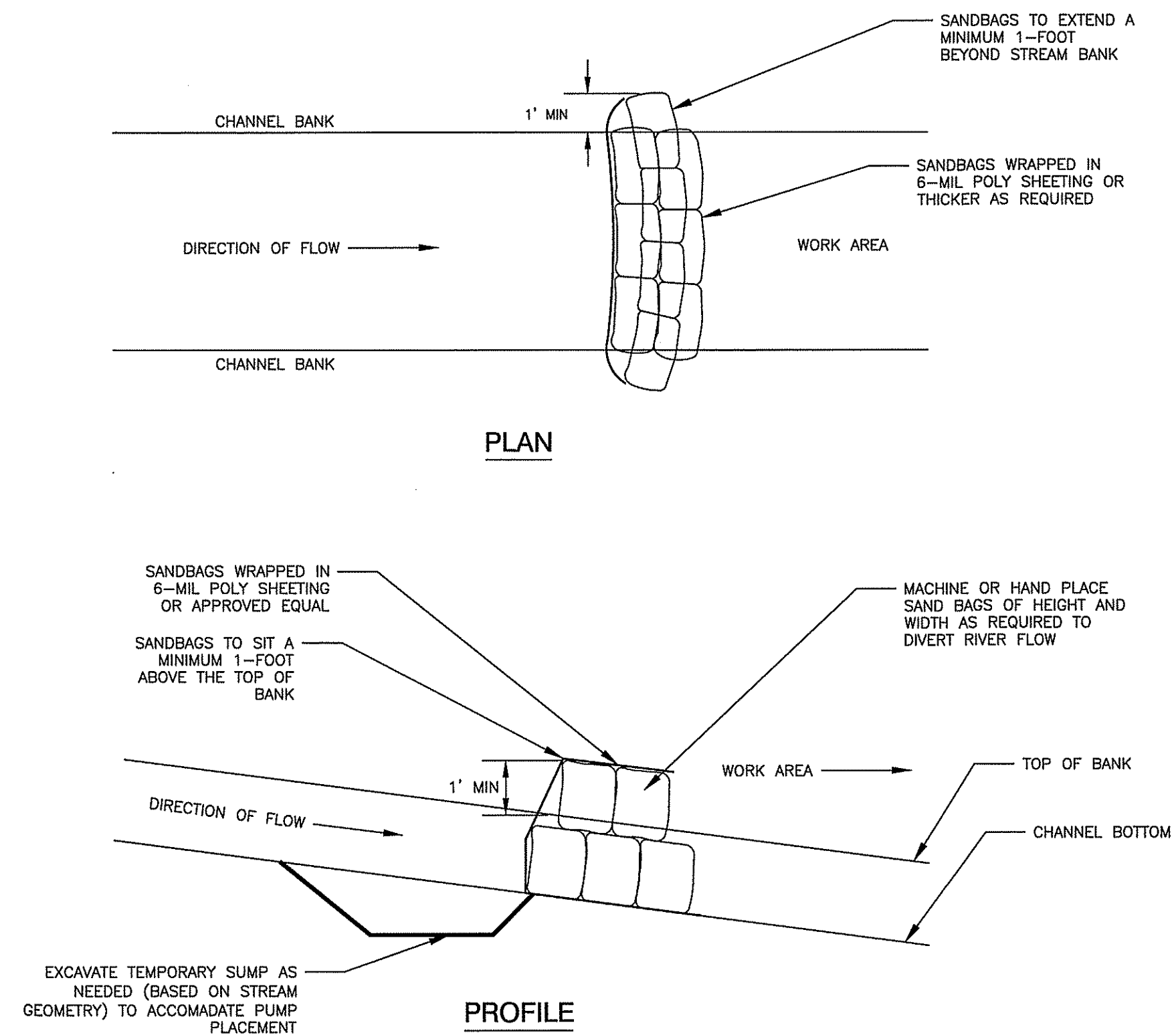


PIPE DETAIL AT DRIVEWAY
NOT TO SCALE



- NOTES:**
1. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE METHOD FOR BYPASSING STREAM FLOWS FOR ENGINEER APPROVAL.
 2. PUMP OUTLET LOCATION SHALL BE STABILIZED WITH NHDOT CLASS C STONE OR APPROVED EQUAL FOR EROSION CONTROL MEASURES.

STREAMFLOW DIVERSION DETAIL
NOT TO SCALE



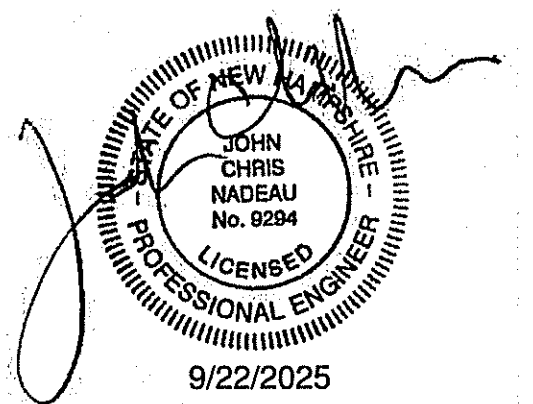
- NOTES:**
1. SANDBAGS OR APPROVED EQUIVALENT (I.E. PRECAST WASTE BLOCKS) SHALL BE USED AS TEMPORARY COFFER DAM.
 2. IMPERVIOUS LINER (POLYETHYLENE PLASTIC LINER OR EQUIVALENT) SHALL BE PLACED BELOW SAND BAGS, AND WRAPPED AROUND TO PREVENT SEEPAGE OF WATER.
 3. COFFER DAM HEIGHT SHALL EXTEND A MINIMUM OF 1-FOOT ABOVE THE TOP OF THE STREAM BANK AND TIE INTO BOTH BANKS OF THE CHANNEL. TOP HEIGHT SHALL EXTEND OVERBANK AS NEEDED TO TIE INTO EACH BANK.

TEMPORARY COFFER DAM DETAIL
NOT TO SCALE



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**NHSCOT
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125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 32Z / LOT 59

OWNER(S):
CHILD & FAMILY SERVICES
REALTY CORP
PO BOX 448
MANCHESTER, NH 03105

APPLICANT:
NHSCOT
25 TRIANGLE DRIVE SUITE 4
CONCORD, NH 03301

NO.	DATE	DESCRIPTION
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△	06/20/2025	CITY OF CONCORD AND AOT COMMENTS
△	04/28/2025	NHFG COMMENTS

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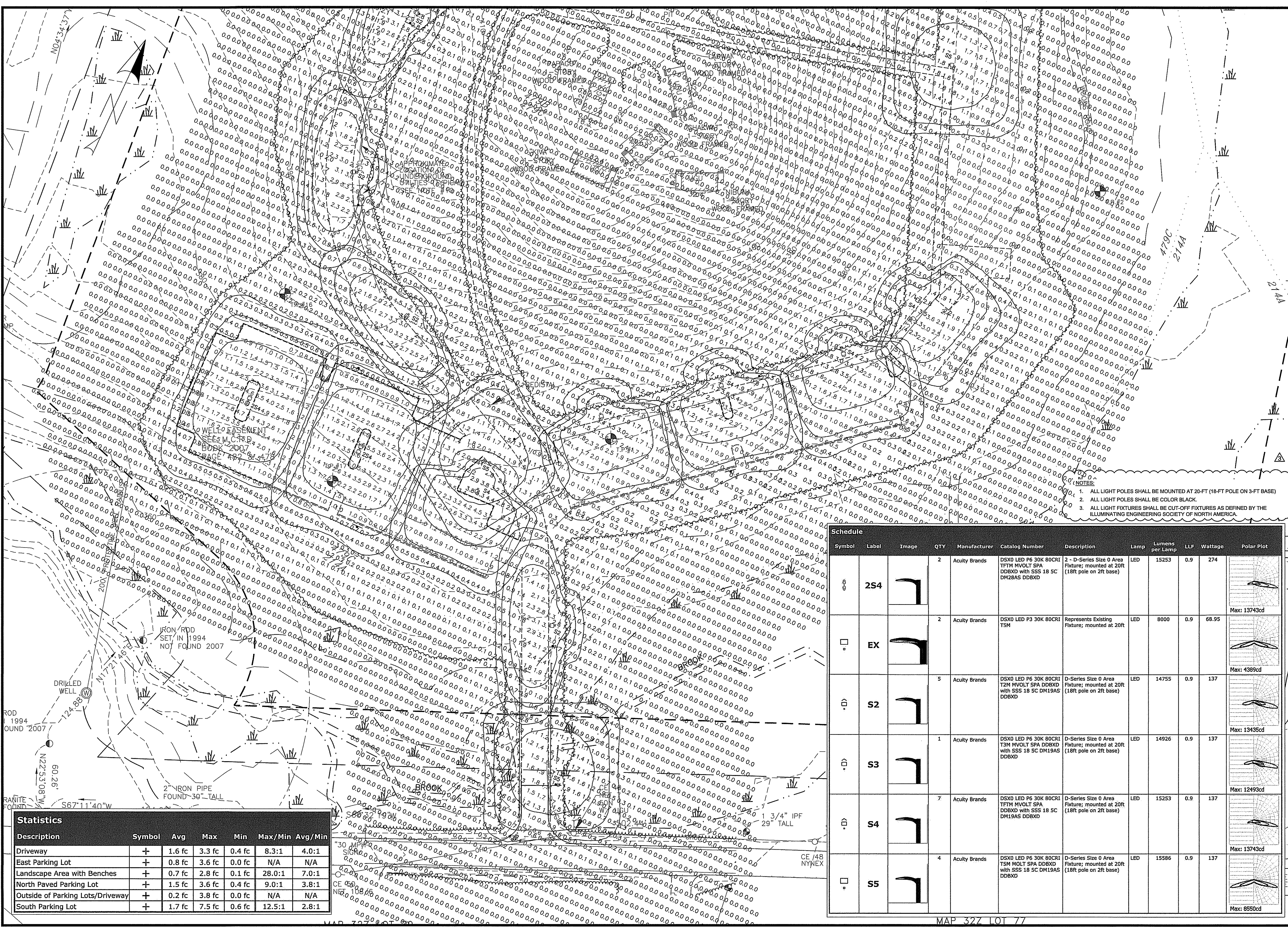
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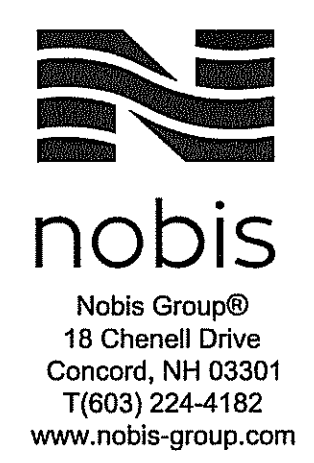
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DETAILS**

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C-6.5



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Driveway	+	1.6 fc	3.3 fc	0.4 fc	8.3:1	4.0:1
East Parking Lot	+	0.8 fc	3.6 fc	0.0 fc	N/A	N/A
Landscape Area with Benches	+	0.7 fc	2.8 fc	0.1 fc	28.0:1	7.0:1
North Paved Parking Lot	+	1.5 fc	3.6 fc	0.4 fc	9.0:1	3.8:1
Outside of Parking Lots/Driveway	+	0.2 fc	3.8 fc	0.0 fc	N/A	N/A
South Parking Lot	+	1.7 fc	7.5 fc	0.6 fc	12.5:1	2.8:1



Designer:
Heldt G. Connors
Visible Light, Inc.
24 Stickney Terrace
Suite 6
Hampton, NH 03842
Date:
08/21/2025

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NHSCOT
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125 RIVER RD & 210 BOG RD
CONCORD, NEW HAMPSHIRE

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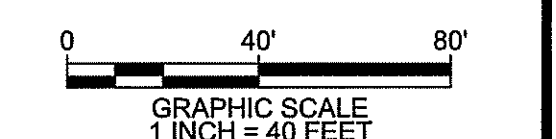
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CONCORD, NH 03301

- NOTES:
1. ALL LIGHT POLES SHALL BE MOUNTED AT 20-FT (18-FT POLE ON 3-FT BASE)
 2. ALL LIGHT POLES SHALL BE COLOR BLACK.
 3. ALL LIGHT FIXTURES SHALL BE CUT-OFF FIXTURES AS DEFINED BY THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA.

Schedule									
Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Lumens per Lamp	Polar Plot
254			2	Acuity Brands	DSXO LED P6 30K 80CRI TFM MVOLT SPA DBBXD with SSS 18 5C DM28AS DBBXD	2 - D-Series Size 0 Area Fixture; mounted at 20ft (18ft pole on 2ft base)	LED	15253	0.9 274 Max: 13743cd
EX			2	Acuity Brands	DSXO LED P3 30K 80CRI TSM	Represents Existing Fixture; mounted at 20ft	LED	8000	0.9 68.95 Max: 4389cd
S2			5	Acuity Brands	DSXO LED P6 30K 80CRI T2M MVOLT SPA DBBXD with SSS 18 5C DM19AS DBBXD	D-Series Size 0 Area Fixture; mounted at 20ft (18ft pole on 2ft base)	LED	14755	0.9 137 Max: 13435cd
S3			1	Acuity Brands	DSXO LED P6 30K 80CRI T3M MVOLT SPA DBBXD with SSS 18 5C DM19AS DBBXD	D-Series Size 0 Area Fixture; mounted at 20ft (18ft pole on 2ft base)	LED	14926	0.9 137 Max: 12493cd
S4			7	Acuity Brands	DSXO LED P6 30K 80CRI TFM MVOLT SPA DBBXD with SSS 18 5C DM19AS DBBXD	D-Series Size 0 Area Fixture; mounted at 20ft (18ft pole on 2ft base)	LED	15253	0.9 137 Max: 13743cd
S5			4	Acuity Brands	DSXO LED P6 30K 80CRI TSM MVOLT SPA DBBXD with SSS 18 5C DM19AS DBBXD	D-Series Size 0 Area Fixture; mounted at 20ft (18ft pole on 2ft base)	LED	15586	0.9 137 Max: 8550cd

09/03/2025	CITY OF CONCORD AND AOT COMMENTS
06/20/2025	CITY OF CONCORD AND AOT COMMENTS
04/28/2025	NHFG COMMENTS

REVISIONS



DATE: FEBRUARY 18, 2025
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SHEET TITLE

LIGHT PLAN

SHEET
L-1.0

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I, Jonathan Halle, hereby Certify that I am the designer of this Landscape Plan and that I am a Professional Landscape Architect Licensed by the State of New Hampshire.

Jonathan Halle, PLA, AIA

NOTES:

Preservation of Existing Trees: The methods for the preservation of existing trees shall be noted on the landscape plan and efforts shall be made to minimize the potential for serious damage due to wind, grade changes, and soil compaction. No construction materials, equipment, vehicles, or temporary soil deposits shall be located within the dripline of trees that are to be preserved. Protective barriers such as silt fencing or construction fencing shall be installed around each plant and/or groups of plants that are to remain onsite. The applicant shall be responsible for replacing any trees proposed to be retained which have been damaged or destroyed by construction activities.

Placement of Landscape Material: Landscape improvements shall be placed to avoid interference with pedestrian and vehicular movement, underground and overhead utilities, and snow storage. Plant material shall be located to enhance the overall attractiveness of the site and to ensure long term viability of the plantings and other landscape improvements.

(1) Distribution: Plant material shall be reasonably distributed throughout the site, with careful attention to the road frontage and views from the public right-of-way, entrances to buildings, signs, required buffers/screens, and parking lot landscaping. Street trees shall be planted between twenty (20) feet and forty (40) feet apart, or as otherwise approved by the Planning Board.

Required Landscaping Improvements: Landscaping shall be provided as required herein and as required in the City of Concord Zoning Ordinance. Landscaping shall be provided to supplement the natural features which are preserved within the site plan and to enhance those portions of the site plan in which natural features and vegetation are destroyed by construction. The following landscape improvements shall be required as applicable by the Planning Board.

Planting Specifications: All plant materials shall be planted in accordance with the City of Concord's Construction Standards and Details. Organic mulch shall be used to retain soil moisture and moderate temperature, however, the thick application of mulch around the root collar of the tree will not be allowed.

Mulch: Non-organic mulch, stone, or landscaped fabric is not allowed in required landscape areas. Non-organic mulch, stone or other ground covering is acceptable in other areas of the site, if landscape fabric is used it will be considered an impervious surface.

Maintenance: The applicant or their successors shall be responsible for the regular maintenance of all plantings and other landscape features. Plant materials shall be maintained alive, healthy and free from pests and disease. Tree stakes and guys shall be removed after the first growing season.

Financial Guarantee: The Planning Board may require a financial guarantee for up to two (2) years to ensure the viability and/or replacement of required landscaping.

Undesirable Growth and Debris: Existing invasive species shall be removed from the developed area. All trash, construction material and debris shall be removed from each lot. Dead and dying trees which present a potential hazard to existing and proposed structures shall be removed.

Erosion Control: Erosion control measures shall be installed and maintained to prevent sediment from leaving the site, entering the City or State storm drainage system, intermittent or perennial streams, wetlands, ponds and other surface waters. All disturbed areas shall be revegetated and all sediment shall be retained on site. Disturbed areas shall be restored pursuant to the City of Concord Construction Standards and Details, the State of New Hampshire Department of Environmental Protection (DES) regulations, and the US Environmental Protection Agency's NPDES (National Pollution Discharge Elimination System) requirements.

(1) Erosion Control Plan: Prior to any clearing of a site, an Erosion Control Plan shall be submitted and shall be reviewed and approved by the City Engineer.

(2) Disturbed Areas: Appropriate erosion and sedimentation control measures shall be installed prior to soil disturbance. The limits of disturbance shall be clearly marked with tape, signs, or orange construction fencing prior to the start of clearing of the site or phase of development. Wherever practical, natural vegetation shall be retained. The approved Erosion Control Plan shall specify the areas to be disturbed, and disturbed areas shall be limited to those phases or portion of the site where active construction is occurring. Disturbed areas remaining idle for more than twenty one (21) days shall be stabilized, including soil stockpiles.

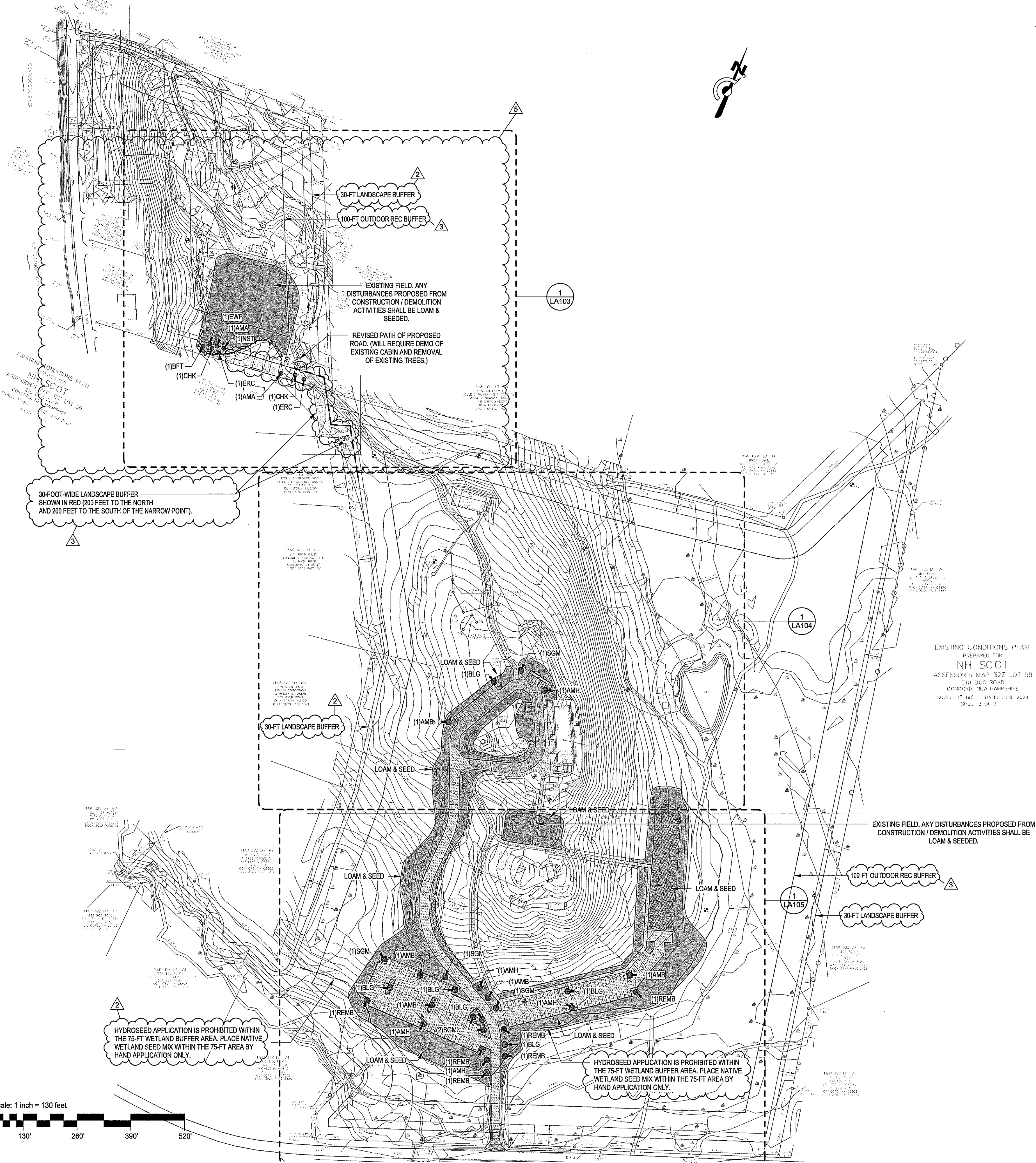
Concord, NH Site Plan Regulations
Amendments Filed with City Clerk on 5/17/19 Page 91

(3) Site Restoration: Grading shall be completed in accordance with the approved site plan. All disturbed land shall be recovered with loam with a minimum depth of six (6) inches. The loam shall be fertile, natural soil, typical of the locality, free from large stones, roots, sticks, clay, peat, weeds and sod, and obtained from a naturally well drained area, nor contain toxic materials to plants. The loam shall not contain particles over two (2) inches in diameter. When possible, topsoil from the proposed development shall be redistributed so as to provide the required cover. All disturbed areas shall be seeded in accordance with the City of Concord Construction Standards and Details. The Planning Board may require the planting of trees and shrubs in areas to be restored.

(4) Monitoring and Maintenance: Sedimentation and erosion control measures shall be installed prior to the start of construction, and shall be monitored and maintained during construction, and removed after final site stabilization in accordance with City, NH DES and NPDES requirements.

(5) Final Stabilization: A site shall be deemed to be stabilized when it is in a condition in which the soils on the site will not erode under the conditions of a ten (10) year storm. Temporary sediment and erosion control devices shall not be removed until permanent stabilization is established for the entire site or phase of the development. All temporary erosion and sediment control measures shall be removed after the completion of construction.

Graphic Scale: 1 inch = 130 feet



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LANDSCAPE

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PROJECT TITLE / ADDRESS:

NHSCOT HEADQUARTERS

211 BOG ROAD
CONCORD, NH 03303

PLAN KEY:

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5	09/27/2025	TREE & SHRUB COUNT

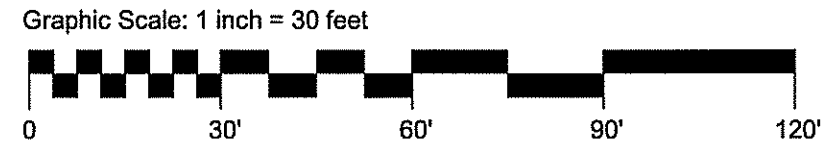
LANDSCAPE SITE PLAN

LA101

SHEET NUMBER: 1 OF 10 LANDSCAPE

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1 EXISTING TREES AT BUFFER AREA
1" = 30'-0"

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R.
HALLE
1/110

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REV.	DATE	COMMENTS
3	08/15/2025	REVISED TREES IN BUFFER AREA

**EXISTING TREES AT
LANDSCAPE BUFFER AREA**

LA102

SHEET NUMBER: 2 OF 10 LANDSCAPE

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A

B

C

D

E

MAP 322 LOT 60
ROOS FAMILY 2014
KENNETH E. ROOS
JODI S. ROOS, TRUSTEES
17 N. CURTISVILLE ROAD
CONCORD, NH 03303
PAGE 311

MAP 322 LOT 61
LARRY & KATHY
133 RIVINGTON ROAD
CONCORD, NH 03303
PAGE 311

BUFFER OPTION #2 - TREE CALCULATIONS**12,400 SF OF BUFFER AREA = 31 REQUIRED TREES****EXISTING TO REMAIN TREES (64 total)****EVERGREEN: 24****DECIDUOUS: 40****ADDITIONAL TREES ADDED IN BUFFER****EVERGREEN: 3****TOTAL TREES IN BUFFER: 67****EVERGREEN: 40%****DECIDUOUS: 60%**

***Additional evergreen trees added to meet the ratio requirement between evergreen and deciduous.**

***Trees outside of buffer area not included in calculations. For abutter privacy only.**

***At the time of planting, deciduous trees shall be at least twelve (12) feet in height and have a trunk diameter of two and one-half (2½) inches, and evergreen trees shall be at least eight (8) feet in height. All trees shall be of a species that will attain a mature height of at least thirty (30) feet. Trees shall be planted no further than forty (40) feet apart.**

EXISTING TREES TO REMAIN **EVERGREEN** **DECIDUOUS****BUFFER TREE SCHEDULE****(2) AMA - AMERICAN ARBORVITAE****(2) ERC - EASTERN RED CEDAR****(2) EWP - EASTERN WHITE PINE****(1) NST - NORWAY SPRUCE TREE****(2) CHK - CANADIAN HEMLOCK****BUFFER OPTION #2 - SHRUB CALCULATIONS****12,400 SF OF BUFFER AREA = 310 REQUIRED SHRUBS****REDUCED TO 244 DUE TO THE SURPLUS OF TREES IN THE TREE COUNT.****33 EXTRA TREES AT A FACTOR OF 2 = 66 SHRUBS REMOVED FROM TOTAL REQUIREMENT****SHRUBS ADDED TO BUFFER AREA:****EVERGREEN: 159 (65%)****DECIDUOUS: 85 (35%)**

***Shrubs shall be at least four (4) feet in height at the time of planting, and all shrubs shall be of a species that will attain a mature height of at least six (6) feet and width of at least four (4) feet within five (5) years of the time of planting. Shrubs shall be planted no further apart than five (5) feet in staggered rows such that a dense visual screen will be established by the mature shrubs.**

BUFFER SHRUB SCHEDULE**(80) RHO - RHODODENDRON ROSEBAY (EVERGREEN)****(79) BPJ - BLUE POINT JUNIPER (EVERGREEN)****(43) ARV - ARROWWOOD VIBURNUM (DECIDUOUS)****(42) SPB - SPICEBUSH (DECIDUOUS)****2 ENLARGED LANDSCAPE 1 - SHRUBS****LA103 1" = 30'-0"**

NO PLANTINGS SHALL BE PROVIDED UNDERNEATH OVERHEAD UTILITIES OR WITHIN 10-FT OF UNDERGROUND UTILITY LINES

REVISED PATH OF PROPOSED ROAD WILL REQUIRE DEMO OF EXISTING CABIN AND REMOVAL OF EXISTING TREES.

WHEN INSTALLING BUFFER SHRUBS, PLANT IN PAIRS & ALTERNATE BETWEEN SHRUB TYPES. IF A TREE IS PREVENTING PLANTING IN THE MARKED LOCATION, ADJUST SHRUB TO THE NEXT SENSIBLE PLANTING LOCATION. MAINTAIN SPACING AS BEST AS POSSIBLE.

SHRUBS ARE NO FURTHER THAN 5' APART AND ROWS ARE STAGGERED NO MORE THAN 5' APART.

Graphic Scale: 1 inch = 40 feet

1 ENLARGED LANDSCAPE 1
LA101 1" = 40'-0"

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LANDSCAPE

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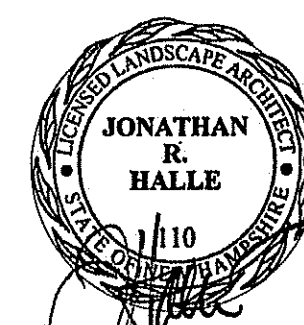
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NHSOT HEADQUARTERS

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5	09/27/2025	TREE & SHRUB COUNT

LANDSCAPE SITE PLAN
ENLARGED 1

LA103

SHEET NUMBER: 3 OF 10 LANDSCAPE

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MAP 32Z LOT 63
(141 RIVER ROAD)
LEON L. LAFRENIERE TRUST
LEON L. LAFRENIERE, TRUSTEE
141 RIVER ROAD
CONCORD, NH 03303
BOOK 3187 PAGE 286

MAP 32Z LOT 64
(145 RIVER ROAD)
EDWARD & THERESA SMITH
145 RIVER ROAD
CONCORD, NH 03303
BOOK 3479 PAGE 961

MAP 32Z LOT 66
(149 RIVER ROAD)
ERIC D. SNODGRASS
& WENDY B. LANDIN
149 RIVER ROAD
CONCORD, NH 03303
BOOK 2079 PAGE 1569

PROJECT: 3913 NHSCOT LANDSCAPE 10 Drawing: Final 3913
2025-08-15 NHSCOT CULTURAL CENTER LAYOUT
TEMPLATE DATE: 11/26/2019

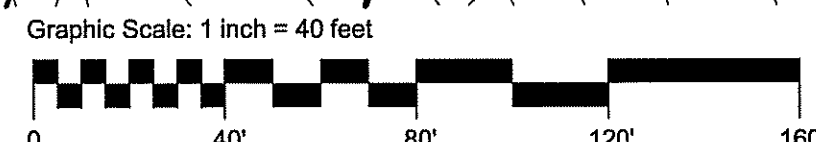
100-FT OUTDOOR REC BUFFER

30-FT LANDSCAPE BUFFER

NO PLANTINGS SHALL BE PROVIDED
UNDERNEATH OVERHEAD UTILITIES OR WITHIN
10-FT OF UNDERGROUND UTILITY LINES

FOR INFORMATION REGARDING
CURBING, SEE CIVIL DRAWINGS

FOR INFORMATION REGARDING
CURBING, SEE CIVIL DRAWINGS



MATCH LINE SHEET 3

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BOOK 1299 PAGE 440

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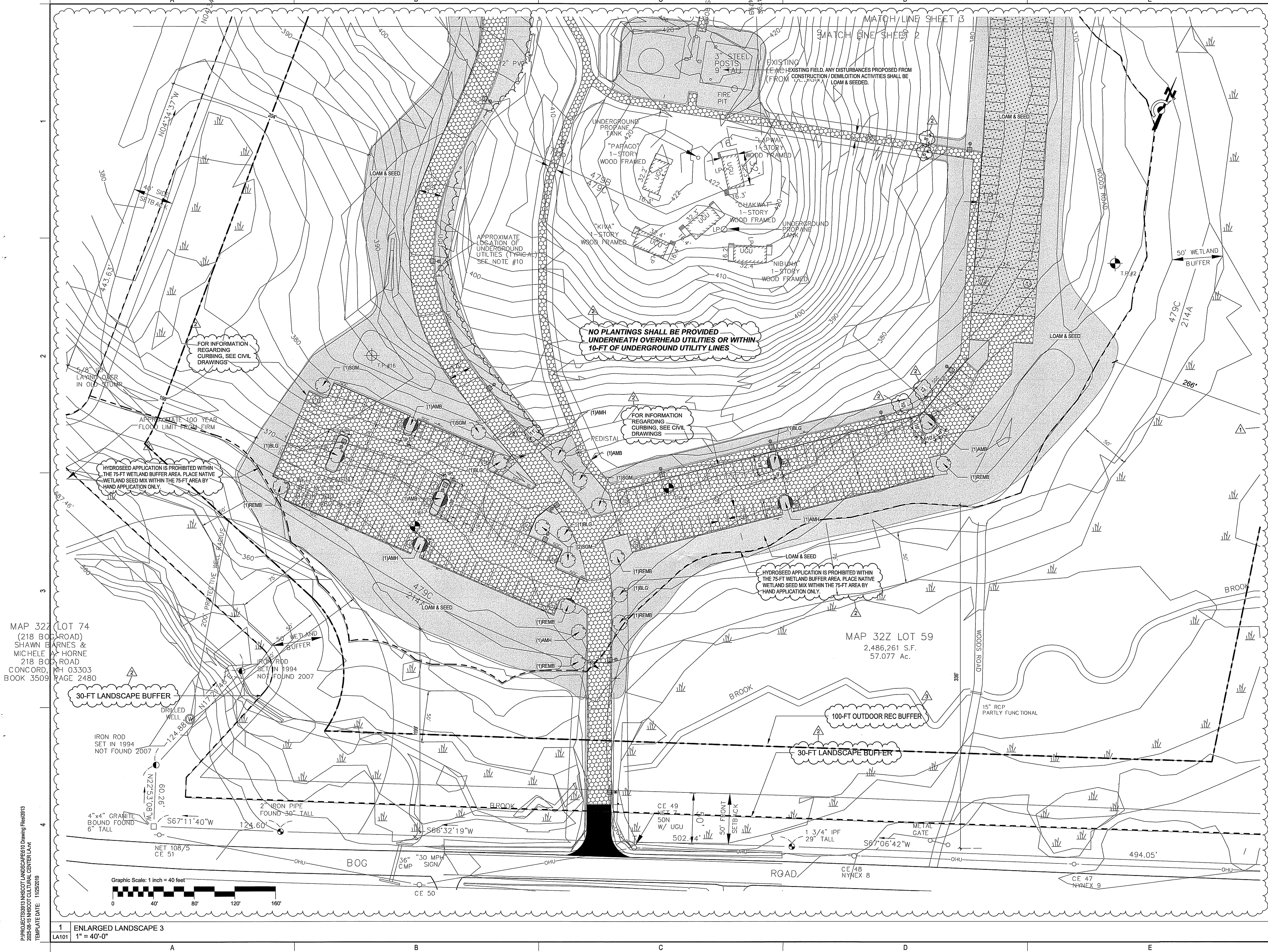
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**LANDSCAPE SITE PLAN
ENLARGED 2**

LA104

SHEET NUMBER: 4 OF 10 LANDSCAPE
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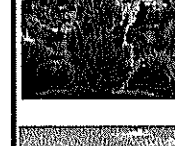
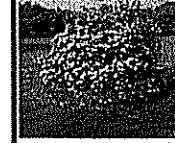
LANDSCAPE SITE PLAN
ENLARGED 3

LA105

SHEET NUMBER: 5 OF 10 LANDSCAPE

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NHCOT CULTURAL CENTER - Planting Schedule (ALL NATIVE PLANTINGS)																
Trees, Shrubs, Ground Cover, Flowers, Bedding and Seeding - See Specification, General Notes and Details on the Accompanying Drawings.																
USDA Plant Hardiness Zones - NH North of Laconia Zone 4 - Southern NH Zone 5 - Western Massachusetts Zone 5, - Eastern Massachusetts Zone 6																
Photo	Type	Sym	Qty	Common Name	Botanical Name	Hardiness Zone	Habit of Growth		Sun Exposure	Drought Tolerant	Native	Toxicity	Installed Size	Type	Use	Description & Notes (Height, Exposure, Bloom, Color)
							Height	Spread								
LARGE SHADE TREES																
	DECIDUOUS LARGE TREE	AMH	5	AMERICAN HORNBEAM	CARPINUS CAROLINIANA VAR. FOREST PANSY	3-9	25'-50'	15'-25'	FULL SUN TO PARTIAL SHADE	NO	YES	3	4"+ CAL - 14' HGT MIN	B&B	Shade Tree	A fine-textured tree that is related to the birches, American hornbeam is the only North American native of the genus Carpinus. The trunk and branches of this tree have ridges that look like muscles. American hornbeam is a wonderful addition to a natural landscape. It will tolerate flooding. Songbirds are attracted to its forked branches, dense crown and tasty seeds. Its fall foliage can be beautiful.
	DECIDUOUS LARGE TREE	BLG	6	BLACK GUM	NYSSA SYLVATICA VAR. RED RAGE	4-9	30'-60'	20'-30'	FULL SUN TO PARTIAL SHADE	YES	YES	2	4"+ CAL - 14' HGT MIN	B&B	Shade Tree	Few trees are able to compete with black gum in regard to summer and fall color. In September, its dark green foliage gives way to intense red fall color with hues of orange, yellow, and purple, which makes it a wonderful selection for home landscapes. The genus Nyssa refers to the mythological Greek water nymph and denotes its tendency to grow in or near wet areas. Throughout its native range, black gum is typically found along streams, swamp margins, and on upland slights. Though it prefers moist, well-drained soils, black gum will grow on drier sites, giving it some drought tolerance.
	DECIDUOUS LARGE TREE	AMB	5	AMERICAN BEECH	FAGUS GRANDIFOLIA	3-9	50'-70'	50'-70'	FULL SUN TO PARTIAL SHADE	YES	YES	1	4"+ CAL - 14' HGT MIN	B&B	Shade Tree	Beech trees are tall, round-headed, and wide-spreading. The thin bark is smooth and steel-gray in colour. The toothed parallel-veined leaves are shiny green and are borne alternately along the stem. Yellow-green male flowers hang from threadlike stems. The female flowers, usually in pairs on short hairy stems on the same tree, develop into prickly burs enclosing one or two three-sided sweet-flavoured nuts. Beeches grow best in sandy loam. They are slow-growing but may live 400 years or more.
	DECIDUOUS LARGE TREE	SGM	6	SUGAR MAPLE	ACER SACCHARUM	4-8	60'-75'	45'-50'	FULL SUN TO PARTIAL SHADE	YES	YES	1	4"+ CAL - 14' HGT MIN	B&B	Shade Tree	The Sugar Maple (Acer saccharum) is a large, slow-growing, deciduous tree which flourishes in well-drained soil in the Adirondack Mountains. It is a member of the Soapberry Family. The Sugar Maple is one of about twenty species in the genus Acer which occur in North America. This species has a life span of 200-300 years, with some specimens in old-growth stands persisting to nearly 400 years. The Sugar Maple is one of the most important trees in the eastern United States and Canada, both economically and ecologically. It is the dominant tree in the northern hardwood forest, along with American Beech.
	DECIDUOUS LARGE TREE	REMB	6	RED MAPLE	ACER RUBRUM VAR. BRANDYWINE	3-9	40'-60'	25'-35'	FULL SUN TO PARTIAL SHADE	YES	YES	1	4"+ CAL - 14' HGT MIN	B&B	Shade Tree	Brandywine has a brilliant red-purple autumn color. It produces only male flowers, so there are no fruits or nuisance seedlings. It has a significant level of tolerance to potato leafhopper, better than many commercially available red maple cultivars.
BUFFER TREES																
	EVERGREEN LARGE TREE	AMA	2	AMERICAN ARBORVITAE	THUJA OCCIDENTALIS	3-8	40'-60'	10'-15'	FULL SUN TO PARTIAL SHADE	YES	YES	1	2.5"+ CAL 12' HGT MIN	B&B	Buffer Tree	The American arborvitae is a native North American evergreen conifer with tiny, scale-like leaves arranged in flat, fan-like sprays that turn yellow-brown in winter. It has a naturally dense, pyramidal or narrow form, making it ideal for hedges, privacy screens, and windbreaks, though it readily adapts to shearing. This hardy tree also produces small, oblong, reddish-brown cones and a pleasing aroma when its leaves are squeezed.
	EVERGREEN LARGE TREE	ERC	2	EASTERN RED CEDAR	JUNIPERUS VIRGINIANA	2-9	10'-65'	8'-20'	FULL SUN TO PARTIAL SHADE	YES	YES	1	2.5"+ CAL 12' HGT MIN	B&B	Buffer Tree	The Eastern Redcedar (Juniperus virginiana) is a native evergreen tree known for its reddish-brown, shredding bark, aromatic, scale-like foliage, and blue, berry-like female cones. It is a long-lived, pyramidal tree that turns bronze after frost, provides shelter and food for wildlife, and tolerates poor, dry, and alkaline soils. The wood is rot-resistant and fragrant, used for fence posts and chests.
	EVERGREEN LARGE TREE	EWP	2	EASTERN WHITE PINE	PINUS STROBUS	3-8	50'-80'	20'-40'	FULL SUN TO PARTIAL SHADE	YES	YES	0	2.5"+ CAL 12' HGT MIN	B&B	Buffer Tree	White pine (Eastern White Pine, Pinus strobus) is an evergreen conifer known for its soft, bluish-green needles in bundles of five, a characteristic that helps identify it. It grows tall and straight, forming a pyramidal shape when young that becomes more picturesque with age. Key characteristics include its large size, reaching heights of 80-100+ feet, thin bark on young trees that becomes furrowed on older ones, and cylindrical cones 4-8 inches long.
	EVERGREEN LARGE TREE	NST	1	NORWAY SPRUCE TREE	PICEA ABIES	3-7	40'-60'	25'-30'	FULL SUN TO PARTIAL SHADE	YES	YES	1	2.5"+ CAL 12' HGT MIN	B&B	Buffer Tree	The Norway spruce is a fast-growing, pyramidal evergreen native to Europe(naturalized in northeastern United States), known for its dense, drooping branches with sharp, square-shaped, dark green needles that have a sweet fragrance. It produces large, hanging cones up to seven inches long and has scaly, gray-brown bark. A popular choice for windbreaks and ornamental plantings, it thrives in full sun and moist, well-drained soils, though it can tolerate urban pollution and various soil types.
	EVERGREEN LARGE TREE	CHK	2	CANADIAN HEMLOCK	TSUGA CANADENSIS	3-7	40'-70'	25'-35'	FULL SUN TO PARTIAL SHADE	YES	YES	0	2.5"+ CAL 12' HGT MIN	B&B	Buffer Tree	Canadian Hemlock (Tsuga canadensis) is an evergreen conifer with a graceful, pyramidal form, fine-textured, dark green needles with white undersides, and gracefully drooping branches. It grows moderately slowly, prefers moist, well-drained, acidic soil, and thrives in full sun to partial shade or dense shade. Historically, its bark was used for tannins, and it provides essential habitat for various wildlife.
BUFFER SHRUBS																
	EVERGREEN BUFFER SHRUB	RHO	80	ROSEBAY RHODODENDRON	RHODODENDRON MAXIMUM	4-9	10'-20'	10'-20'	FULL SUN TO PARTIAL SHADE	YES	YES	2	3 GAL - 4' HGT MIN	CTN	Buffer SHRUB	The rosebay rhododendron (Rhododendron maximum) is a large, native evergreen shrub with leathery, dark green leaves that have a distinctive rusty underside. It produces large, showy clusters of bell-shaped flowers in late June to early July, which are typically white, pale pink, or rose-colored with yellow or greenish spots. This large-leaved rhododendron thrives in acidic, moist, and well-drained soils in partial to full shade and can form dense thickets, making it ideal for woodland gardens and shady borders.
	EVERGREEN BUFFER SHRUB	BPJ	79	BLUE POINT JUNIPER	JUNIPERUS CHINENSIS	4-9	8'-12'	5'-8'	FULL SUN TO PARTIAL SHADE	YES	YES	1	3 GAL - 4' HGT MIN	CTN	Buffer SHRUB	The Blue Point Juniper is a pyramidal, evergreen conifer with dense, bright blue-green foliage that provides year-round color. It is a low-maintenance plant that grows at a slow to moderate rate and is tolerant of various soil and drought conditions once established. This versatile shrub reaches a mature height of around 12-14 feet with an 8-foot spread and is ideal for use as a specimen tree, a privacy screen, or for framing architectural features.
	DECIDUOUS BUFFER SHRUB	ARV	43	ARROWWOOD VIBURNUM	VIBURNUM DENTATUM	3-8	6'-15'	6'-15'	FULL SUN TO PARTIAL SHADE	YES	YES	2	3 GAL - 4' HGT MIN	CTN	Buffer SHRUB	Arrowwood viburnum (Viburnum dentatum) is a native North American shrub known for its coarsely toothed, opposite leaves, white, flat-topped flower clusters in late spring, and blue-black berries in fall that attract birds and wildlife. This multi-stemmed shrub grows to about 10-15 feet tall with a rounded form and tolerates various conditions, including sun, part shade, and acidic to neutral soils. It is low-maintenance and valuable for landscapes, wildlife gardens, and as a screen or foundation planting.
	DECIDUOUS BUFFER SHRUB	SPB	42	NORTHERN SPICEBUSH	LINDERA BENZOIN	4-9	6'-12'	6'-12'	FULL SUN TO PARTIAL SHADE	YES	YES	2	3 GAL - 4' HGT MIN	CTN	Buffer SHRUB	Northern spicebush (Lindera benzoin) is a multi-stemmed, deciduous shrub growing 6-12 feet tall with a rounded habit, known for its early-spring clusters of small, fragrant yellow flowers before its aromatic, olive-green leaves appear. Its foliage turns a bright golden-yellow in fall, contrasting with the glossy, bright red fruits that mature on female plants and attract birds. Crushed twigs and leaves emit a distinctive, spicy scent.
GRASSES																
	SEED MIX	SFL	NA	Native Seed Mix	NATIVE SEED MIX -NO INVASIVE SPECIES	3-9	8"-36"	NA	Full to Partial Shade	YES	YES	0	SEED MIX	-	-	Virginia Wild Rye 32%, Little Bluestem 26%, Big Bluestem 25%, Showy Tick Trefoil 5%, Common Milkweed 5%, Bonaset 2%, New England Aster 2%, Early Goldenrod 1%, Fine Grass, fertile, seed and Hydromorich. Seed Rate: 5 lbs/1,000 sf add 10% if hydroseed. Seed Dates April 15 - June 30 and August 15 - October 15 unless approved otherwise.
GENERAL PLANTING NOTES																
1. The above selection of plants is provided for design intent. It is understood that the final installation and implementation of this plan is subject to plant availability, substitutions, time of year, phasing and cost. 2. It is understood, that the majority of nursery plants are to some degree toxic to humans and pets, whether the root, stock, bark, leaf, fruit or juice. The owner and installer should become acquainted to the potential toxicity of the ultimate selection of all nursery plants. Warrenstreet has provided common toxicity labels of plant materials selected and in noway warranties against the potential affects of any plants selected and installed. 3. All planting beds shall be mulched with a minimum of 2" of shredded cedar "BLACK" bark mulch. All sod and/or seeded lawn areas to have minimum 6" topsoil blanket. All fall bulbs shall be planted in the fall, plan accordingly, retainage will be held until plantings occur. All mass planted shrubs beds and planters around building shall have miniumum 18" deep topsoil blanket to compensate for the New England very sandy granular sub-grade material. 4. All plant material to conform to current AAN, American Standard for Nursery Stock, ANSI Z60.1-2014. All plantings shall be warranted for (1) one year from planting date. The landscape Contractor shall be responsible for two (2) lawn mowings and weedings prior to final acceptance of installation.																

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SEAL:


PROJECT TITLE / ADDRESS:
NHCOT HEADQUARTERS

211 BOG ROAD
CONCORD, NH 03303

PLAN KEY:

SCALE: AS NOTED DWN BY: CB
PROJECT #: 3913 CHK BY: JH
PRINT DATE: 9/27/2025 2:55:40 PM
ISSUE DATE: 06/18/2024

REV.	DATE	COMMENTS
3	08/15/2025	REVISED TREES IN BUFFER AREA
5	09/27/2025	TREE & SHRUB COUNT

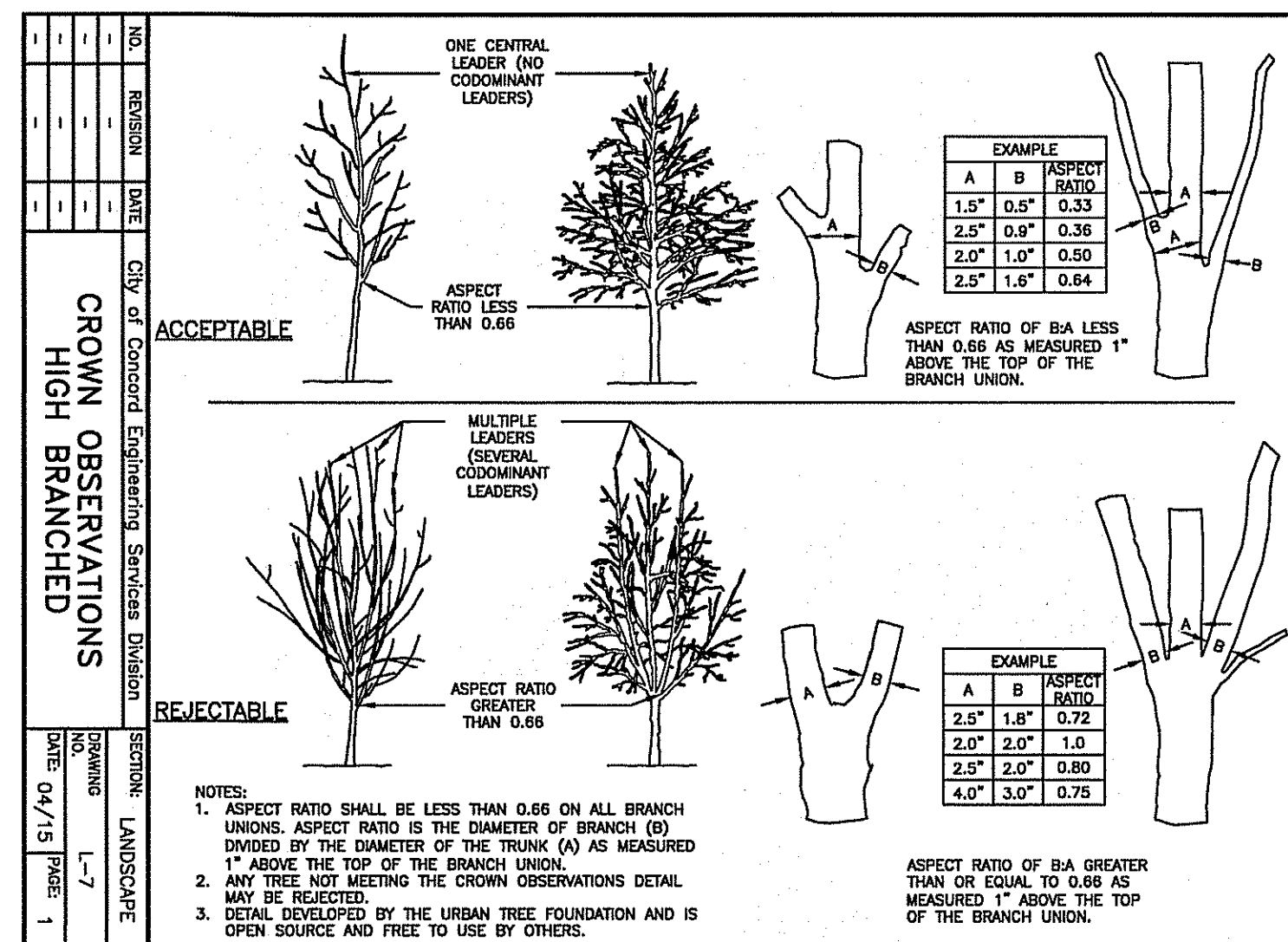
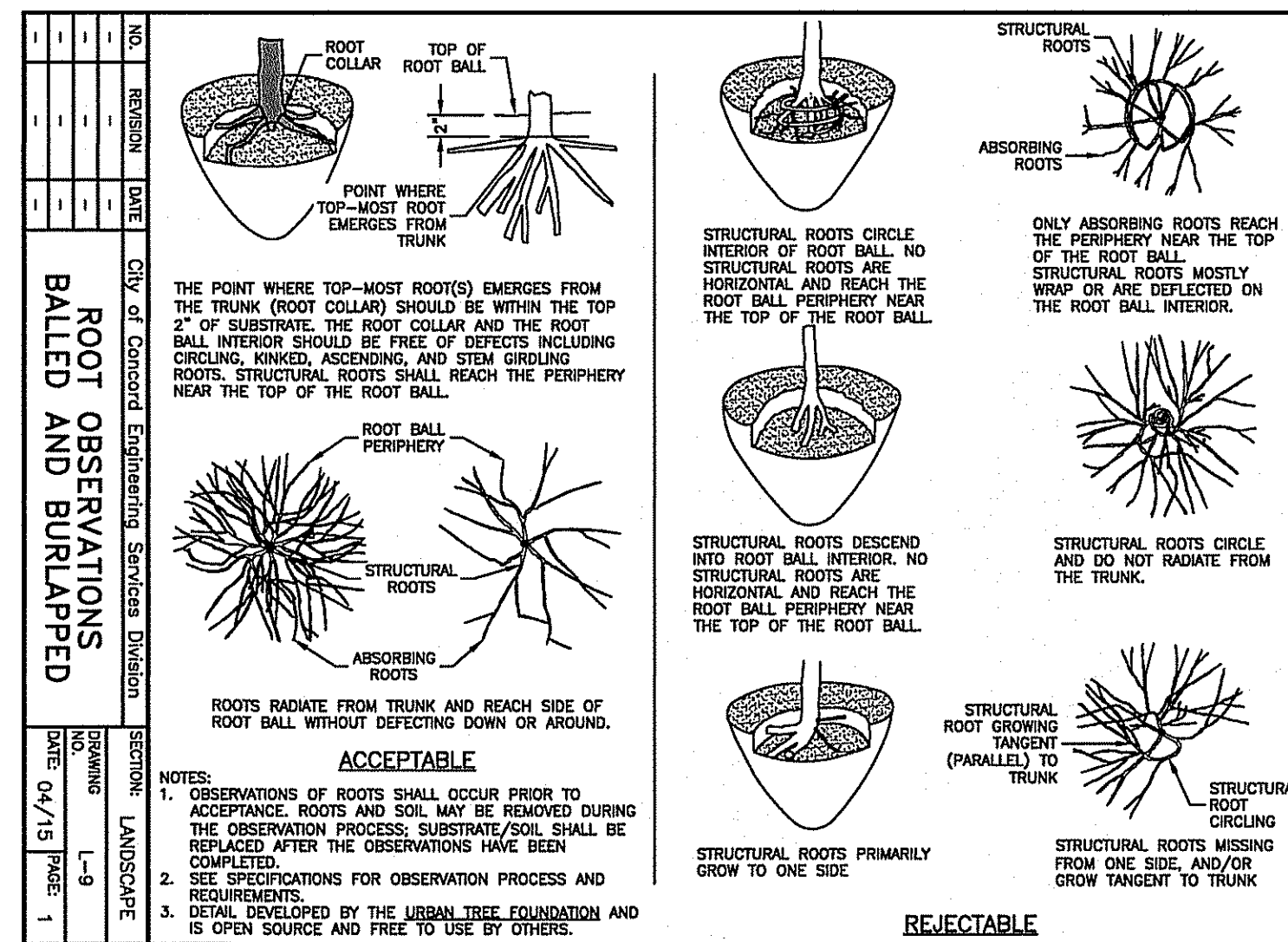
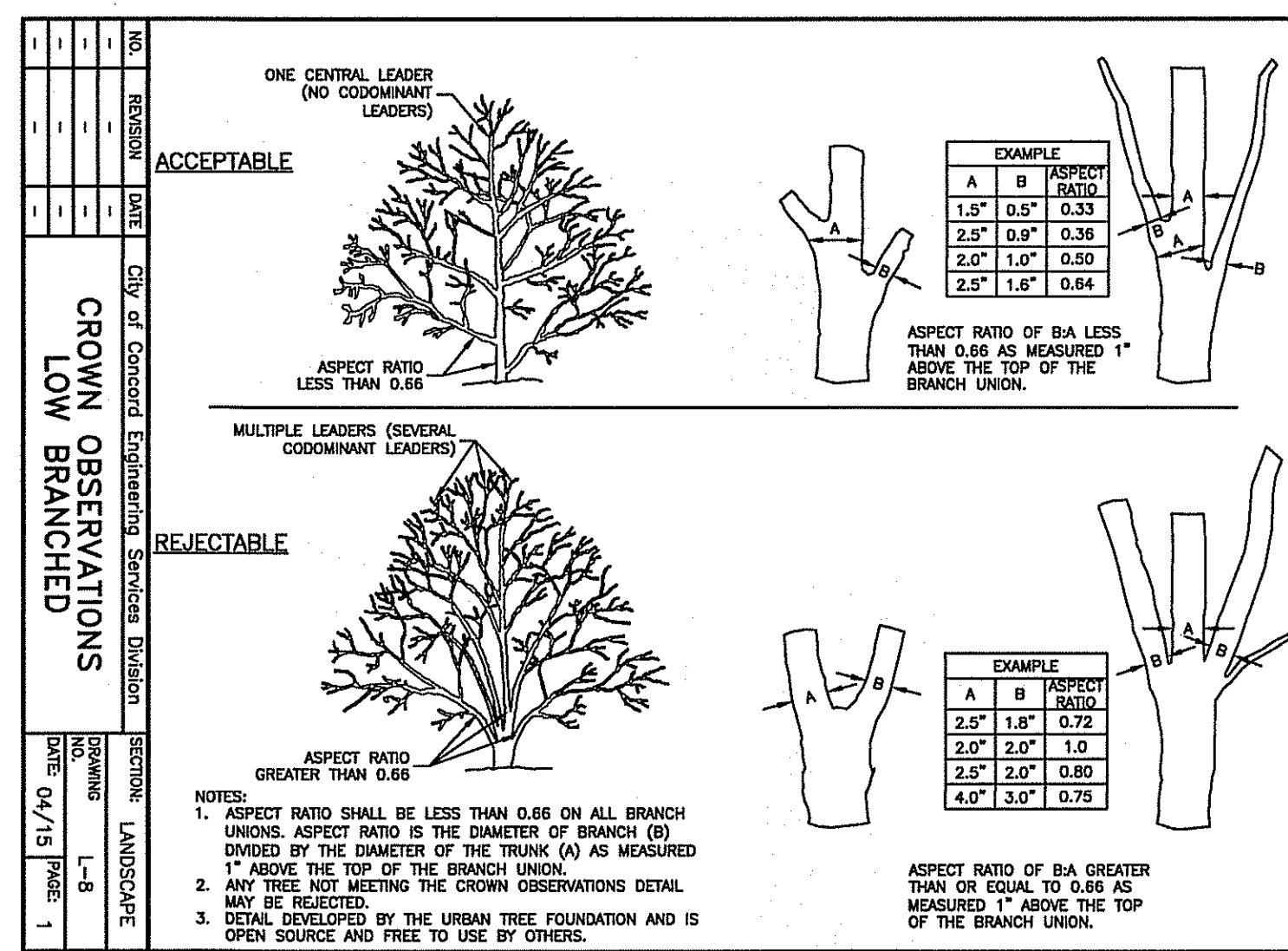
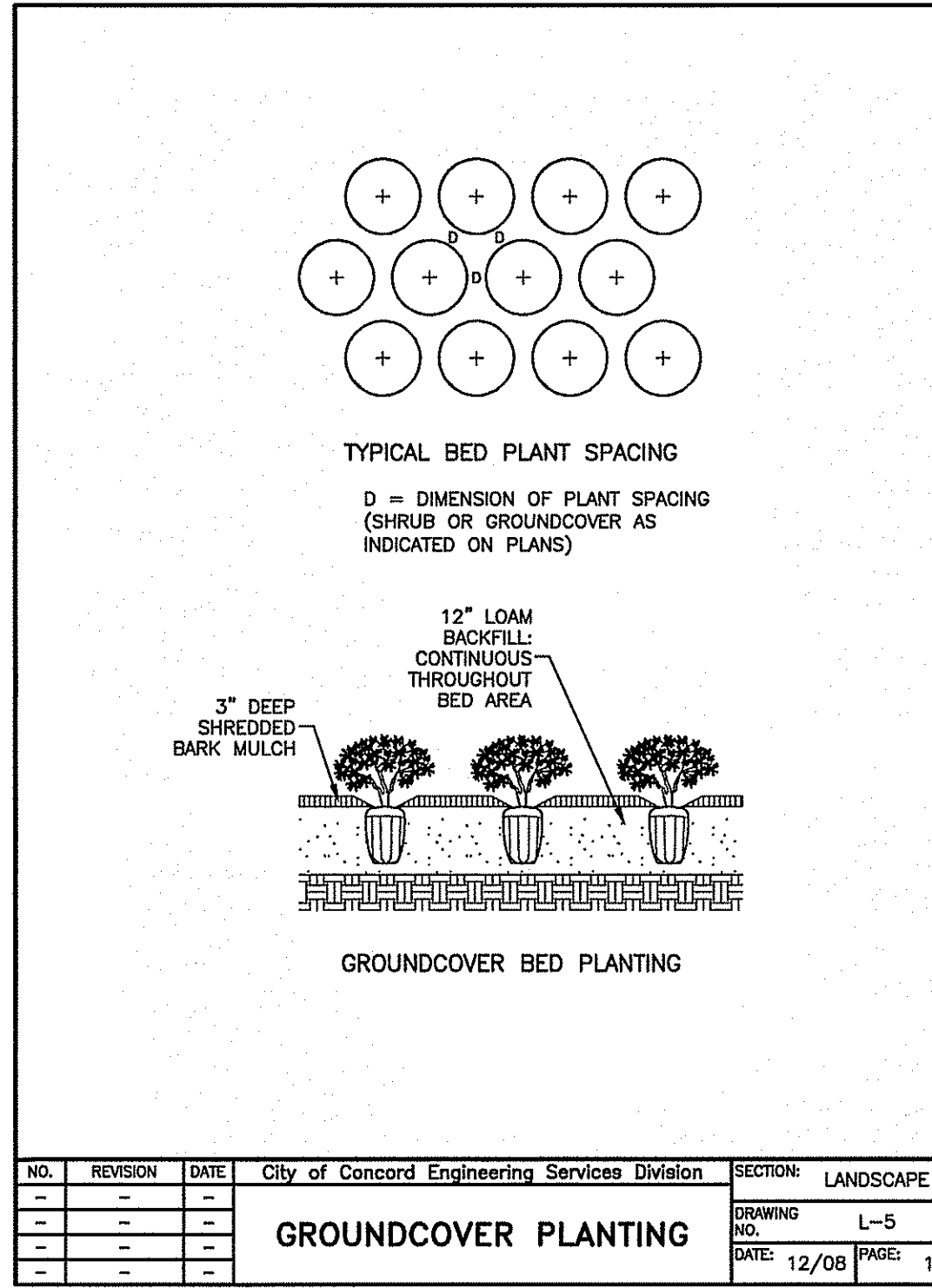
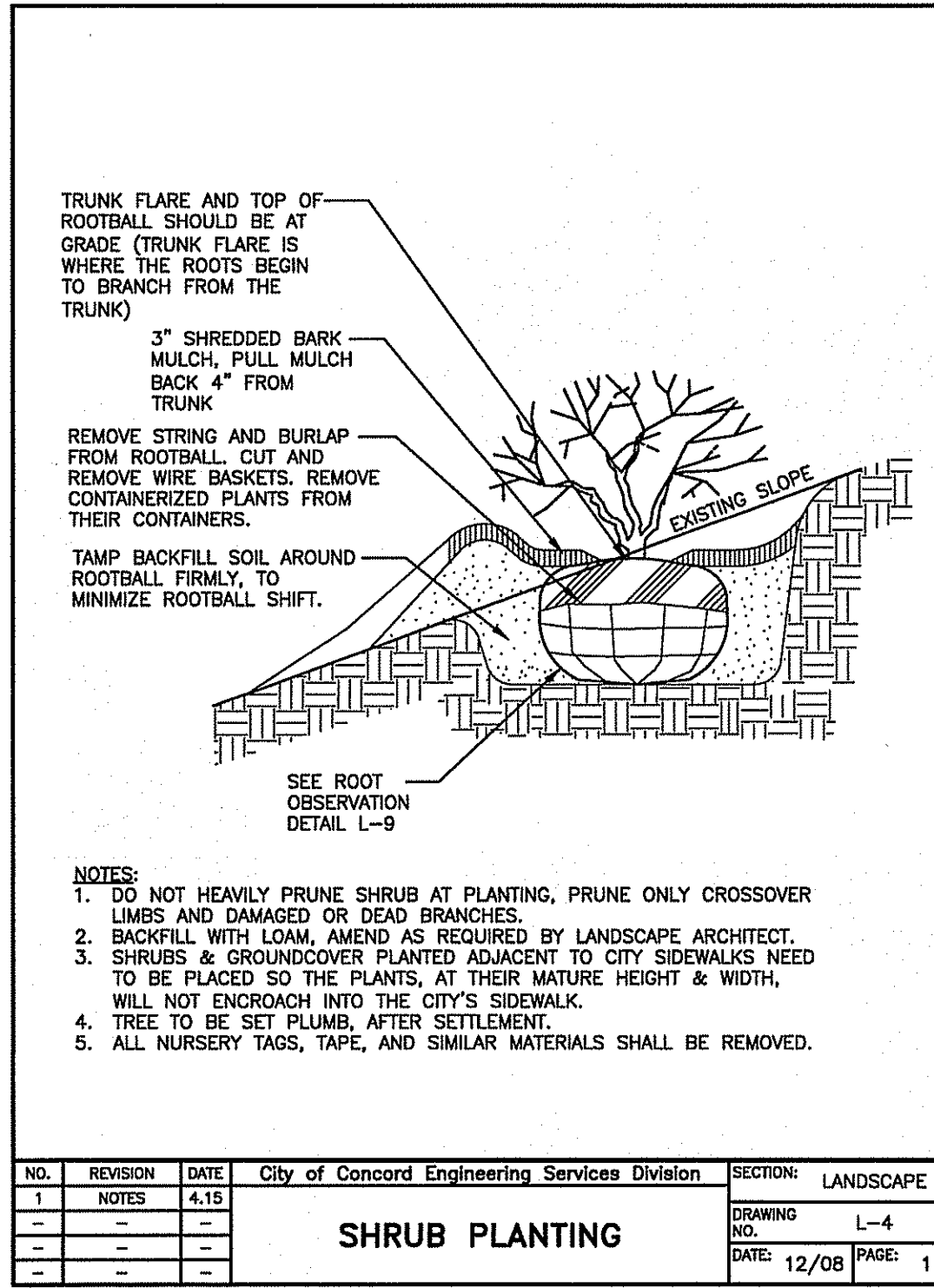
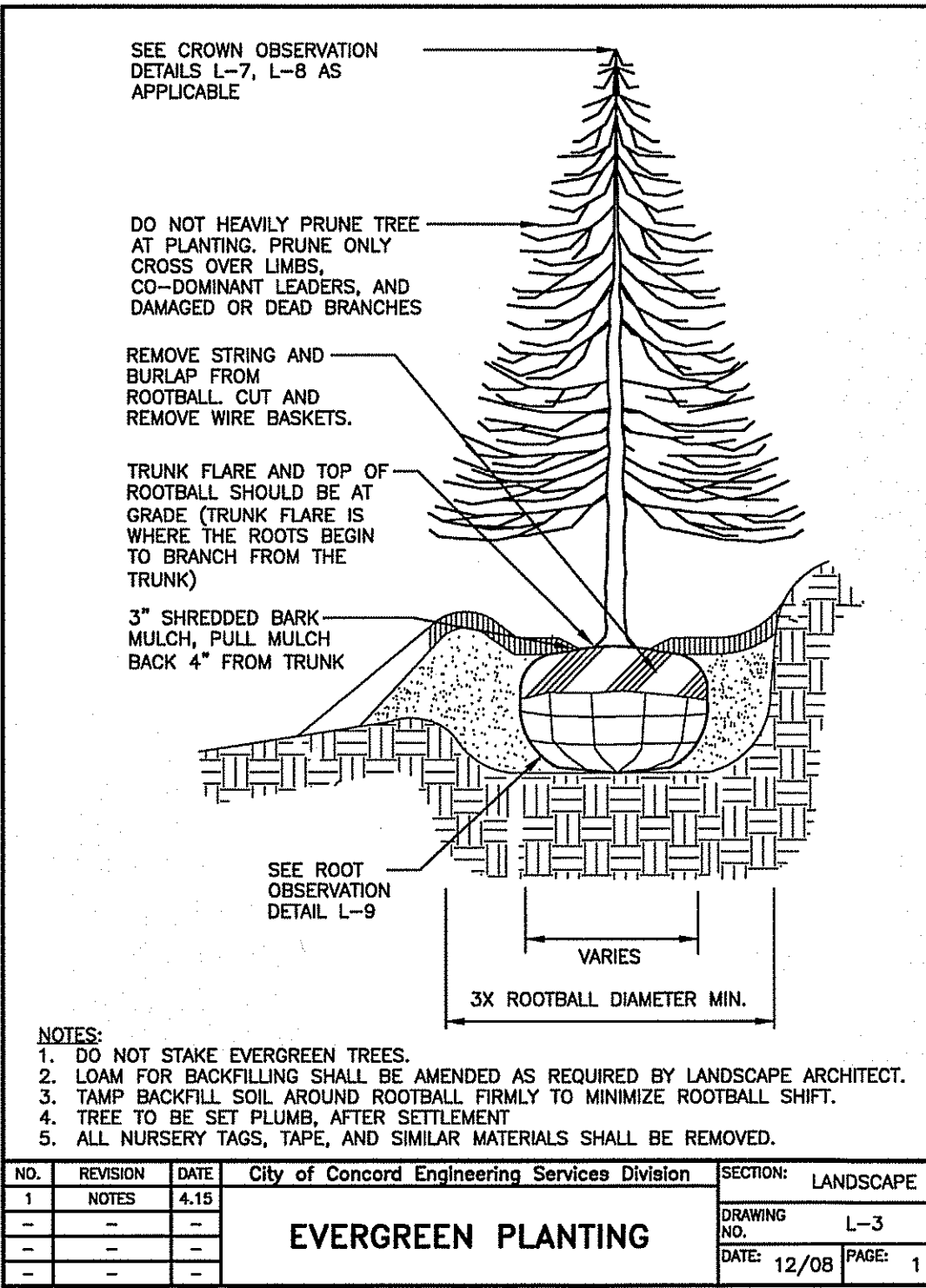
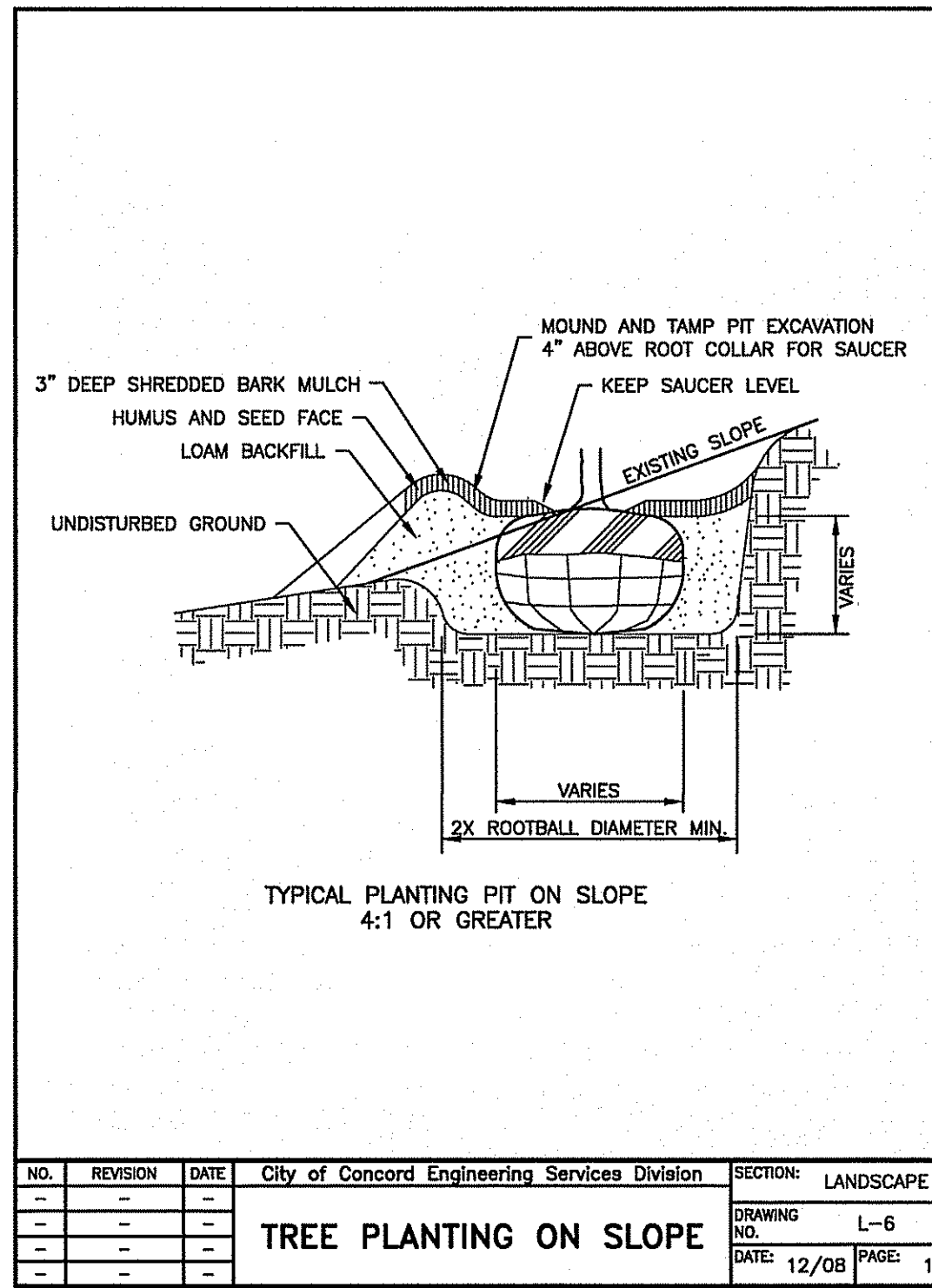
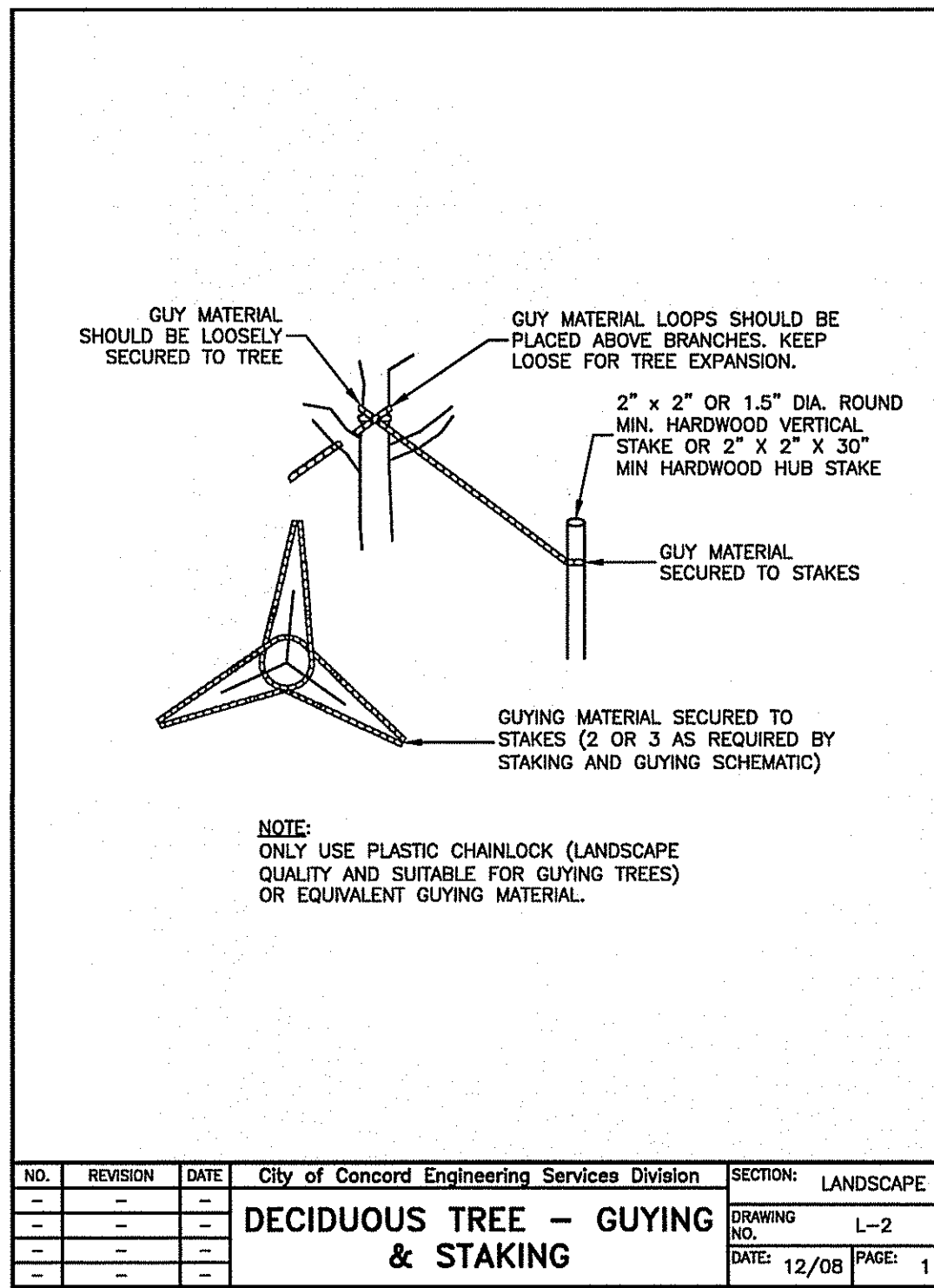
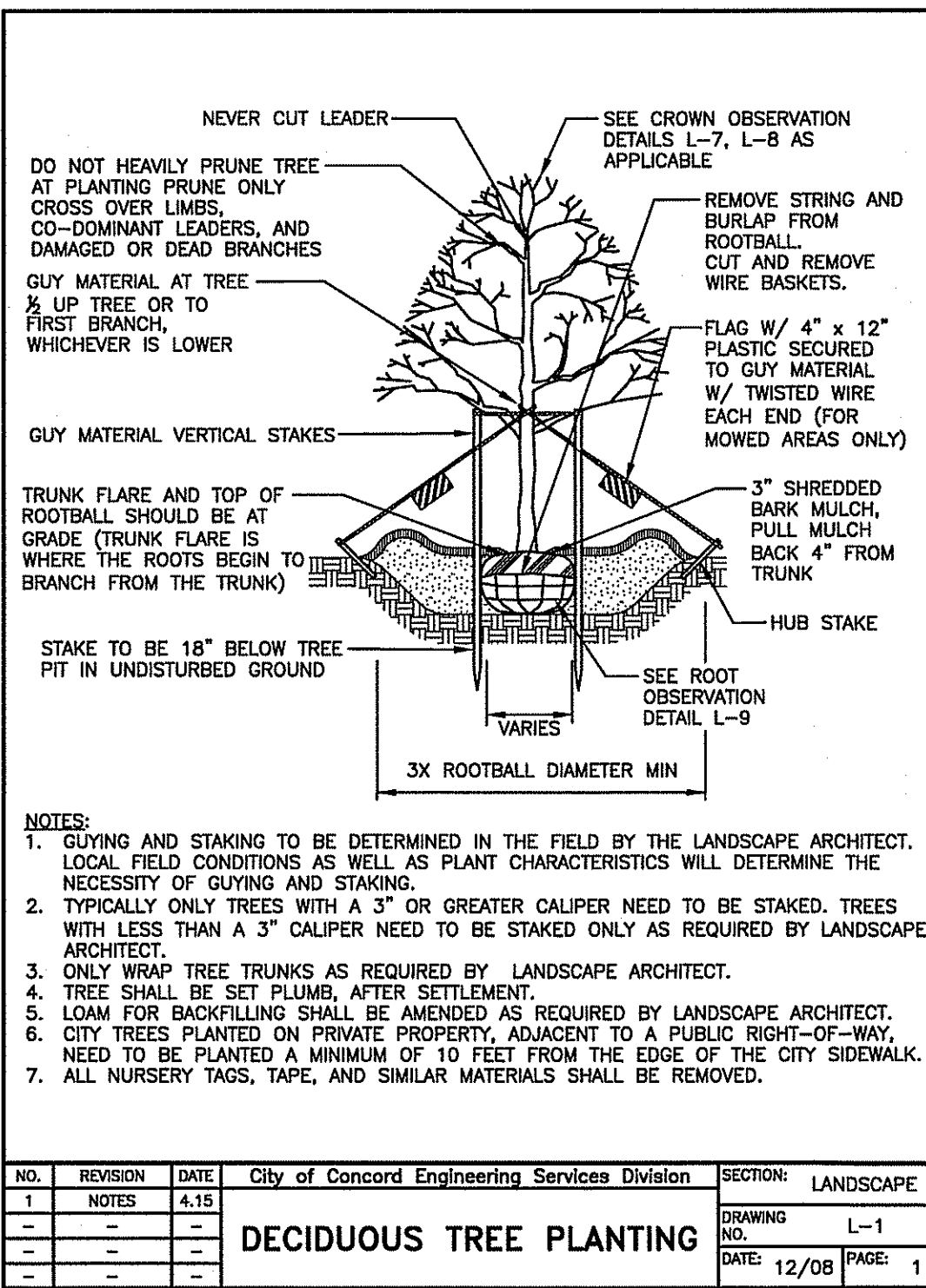
PLANTING SCHEDULE

LA106

SHEET NUMBER: 6 OF 10 LANDSCAPE

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 TELEPHONE



PROJECT TITLE / ADDRESS:
NHSCOT HEADQUARTERS

211 BOG ROAD
 CONCORD, NH 03303

PLAN KEY:

SCALE: AS NOTED DWN BY: WAI
 PROJECT #: 3913 CHK BY: WAI
 PRINT DATE: 9/27/2025 2:55:43 PM

ISSUE DATE: 06/18/2024

REV.	DATE	COMMENTS
1	02/14/2025	COMMENTS FROM CITY

LANDSCAPE DETAILS

LA107

SHEET NUMBER: 7 OF 10 LANDSCAPE

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LANDSCAPE GENERAL SPECIFICATIONS

SECTION 02955 - TREES, SHRUBS AND GROUND COVERS

PART 1: GENERAL

1.1 GENERAL REQUIREMENTS

- A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL CONDITIONS AND DIVISION I SPECIFICATION SECTIONS APPLY TO THIS SECTION.
- B. EXAMINE ALL OTHER SECTIONS OF THE SPECIFICATIONS FOR REQUIREMENTS WHICH AFFECT WORK OF THIS SECTION WHETHER OR NOT SUCH WORK IS SPECIFICALLY MENTIONED IN THIS SECTION. SEE DRAWINGS FOR LOCATIONS AND DETAILS.
- C. COORDINATE WORK WITH THAT OF ALL OTHER TRADES AFFECTING, OR AFFECTED BY WORK OF THIS SECTION. COOPERATE WITH SUCH TRADES TO ASSURE THE STEADY PROGRESS OF ALL WORK UNDER THE CONTRACT.

1.2 SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING:

1. FURNISHING ALL PLANTS, MATERIALS, SUPPLIES, LABOR, EQUIPMENT, AND PERFORMING ALL OPERATIONS IN CONNECTION WITH FURNISHING AND PLACEMENT OF TOPSOIL AND PLANTING MIXTURE, PLANTING OF ALL TREES, SHRUBS AND PERENNIAL, GROUND COVERS, PRUNING/MULCHING/WATERING OF PLANTS, MAINTENANCE, GUARANTEE AND FINAL CLEAN-UP.
- B. RELATED SECTIONS: THE FOLLOWING SECTIONS CONTAIN REQUIREMENTS THAT RELATE TO THIS SECTION:
- SECTION 02300 "EARTHWORK"
- SECTION 02930 "SEEDING AND SODDING"
- LOCAL GOVERNING AUTHORITY AND CODE REQUIREMENTS.
- ALL NECESSARY CONSTRUCTION PERMITS.

1.3 SUBMITTALS

- A. SAMPLES: BEFORE ANY BARK MULCH IS DELIVERED TO THE JOB SITE, SUBMIT A SAMPLE TO THE LANDSCAPE ARCHITECT FOR THEIR APPROVAL.
- B. MATERIALS LIST:
1. BEFORE ANY PLANTING MATERIALS ARE DELIVERED TO THE JOB SITE, SUBMIT TO THE LANDSCAPE ARCHITECT A COMPLETE LIST OF ALL PLANTS AND OTHER ITEMS PROPOSED TO BE INSTALLED.
2. INCLUDE COMPLETE DATA ON SOURCE, SIZE, AND QUALITY.
3. DEMONSTRATE COMPLETE CONFORMANCE WITH THE REQUIREMENTS OF THIS SECTION, THIS SHALL IN NO WAY BE CONSTRUED AS PERMITTING SUBSTITUTION FOR SPECIFIC ITEMS DESCRIBED IN THE PLANS OR THESE SPECIFICATIONS UNLESS THE SUBSTITUTION HAS BEEN APPROVED IN ADVANCE BY THE LANDSCAPE ARCHITECT.
- C. AS-BUILT DRAWINGS: DURING THE COURSE OF THE INSTALLATION, CAREFULLY RECORD IN RED LINE ON A PRINT OF THE PLANTING PLANS ALL CHANGES MADE TO THE PLANTING LAYOUT DURING INSTALLATION.
- D. CERTIFICATES: ALL CERTIFICATES REQUIRED BY LAW SHALL ACCOMPANY SHIPMENTS. UPON COMPLETION OF THE INSTALLATION, DELIVER ALL CERTIFICATES TO THE LANDSCAPE ARCHITECT.

1.4 QUALITY ASSURANCE

- A. INSTALLER QUALIFICATIONS: PROVIDE AT LEAST ONE PERSON WHO SHALL BE PRESENT AT ALL TIMES DURING EXECUTION OF THIS PORTION OF THE WORK AND WHO SHALL BE THOROUGHLY FAMILIAR WITH THE TYPE OF MATERIALS BEING INSTALLED AND THE BEST METHODS FOR THEIR INSTALLATION AND WHO SHALL DIRECT ALL WORK PERFORMED UNDER THIS SECTION.
- B. MATERIAL STANDARDS:
1. ALL PLANTS AND PLANTING MATERIAL SHALL MEET OR EXCEED THE SPECIFICATIONS OF FEDERAL, STATE, AND COUNTY LAWS REQUIRING INSPECTION FOR PLANT DISEASE AND INSECT CONTROL.
2. QUALITY AND SIZE SHALL COMPLY WITH RECOMMENDATIONS AND REQUIREMENTS OF CURRENT EDITION OF ANSI Z60.1 AMERICAN STANDARD FOR NURSERY STOCK, FOR NUMBER ONE GRADE NURSERY STOCK AS ADOPTED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
3. ALL PLANTS SHALL BE TRUE TO NAME AND ONE OF EACH BUNDLE OR LOT SHALL BE TAGGED WITH THE NAME AND SIZE OF THE PLANTS IN ACCORDANCE WITH THE STANDARDS OF PRACTICE OF THE AMERICAN ASSOCIATION OF NURSERYMEN. IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES.

1.5 DELIVERY, STORAGE, HANDLING

- A. DELIVERY AND STORAGE:
1. DELIVER ALL ITEMS TO THE SITE IN THEIR ORIGINAL CONTAINERS WITH ALL LABELS INTACT AND LEGIBLE AT TIME OF LANDSCAPE ARCHITECT INSPECTION.
2. IMMEDIATELY REMOVE FROM THE SITE ALL PLANTS WHICH ARE NOT TRUE TO NAME AND ALL MATERIALS WHICH DO NOT COMPLY WITH THE PROVISIONS OF THIS SECTION OF THESE SPECIFICATIONS.
3. ROOT PROTECTION:
- a. HANDLE PLANTS AT ALL TIMES IN ACCORDANCE WITH THE BEST HORTICULTURAL PRACTICES SO THAT THE ROOTS OR BALLS ARE ADEQUATELY PROTECTED FROM THE SUN AND DRYING WINDS. NO PLANT SHALL BE BOUND WITH ROPE OR WIRE IN A MANNER THAT WOULD DAMAGE THE BARK, BREAK THE BRANCHES, OR DESTROY ITS NATURAL SHAPE.
4. HANDLING:
- a. LIFT AND HANDLE PLANTS FORM THE BOTTOM OF THE BALL OR CONTAINER ONLY. PLANTS HANDLED OTHERWISE WILL BE SUBJECT TO REJECTION. PLANT NO BALLED AND BURLAPPED PLANT WHICH HAS THE BALL CRACKED OR BROKEN WILL BE ACCEPTED. NO BALLED AND BURLAPPED PLANTS USING PLASTIC/POLYESTER BURLAP WILL BE ACCEPTED. PLANT NO CONTAINERIZED OR TUBE-PAK PLANT WHOSE ROOT SYSTEM HAS SEPARATED FROM THE SOIL IN ITS CONTAINER.
5. PROTECTION DURING DELIVERY:
- a. TRANSPORT PLANT MATERIAL IN CLOSED VEHICLES OR IN OPEN VEHICLES WITH THE ENTIRE LOAD PROPERLY COVERED FOR PROTECTION FROM DRYING WINDS.
6. PROTECTION AFTER DELIVERY:
- a. PLANT TREES AND SHRUBS AS SOON AS POSSIBLE AFTER DELIVERY. PLANTS THAT CANNOT BE PLANTED IMMEDIATELY SHALL HAVE THEIR ROOTS KEPT MOIST AND ADEQUATELY PROTECTED UNTIL PLANTED.
- b. COVER THE BALLS OF BALLED AND BURLAPPED, CONTAINERIZED, AND TUBE-PAK PLANTS WITH TOPSOIL OR AN APPROVED MULCH, AND KEEP CONSTANTLY MOIST UNTIL PLANTED.
- c. STORE ALL PLANTS IN THE SHADE, OUT OF DIRECT SUNLIGHT AND DRYING WIND.
- d. OWNER'S REPRESENTATIVE WILL SELECT STORAGE OR HOLDING AREA AND UPON DELIVERY OF PLANTS, DESIGNATE WHERE CONTRACTOR CAN PROTECT AND MAINTAIN THESE PLANT MATERIALS UNTIL THEY ARE PLANTED.

1.6 SCHEDULES

- A. PLANTING SEASON:
1. PLANTING OPERATIONS FOR DECIDUOUS MATERIALS SHALL TAKE PLACE DURING MARCH 15 TO JUNE 30 FOR SPRING PLANTING AND AUGUST 15TH TO OCTOBER 1 OR UNTIL COLD FREEZES FOR FALL PLANTING. BARE ROOT DECIDUOUS PLANTS SHALL BE LIMITED TO PLANTING BETWEEN MARCH 15 TO MAY 1.
- b. PLANTING OPERATIONS FOR EVERGREEN MATERIAL SHALL BE DURING MARCH 1 THROUGH JUNE 30 FOR SPRING PLANTING AND AUGUST 1 THROUGH SEPTEMBER 15 FOR FALL PLANTING.

1.7 INSPECTION

- A. INSPECTION OF PLANTS:
1. PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH AND UPON DELIVERY FOR CONFORMITY TO SPECIFIED QUALITY, SIZE, AND VARIETY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION UPON DELIVERY AT THE SITE OR WHILE WORK IS IN PROGRESS.
2. THE CONTRACTOR WILL INFORM THE LANDSCAPE ARCHITECT THREE BUSINESS DAYS (3) PRIOR TO THE PROPOSED ARRIVAL OF PLANT MATERIAL ON THE JOB SITE.
3. DURING THE TIME PLANT MATERIAL IS BEING INSPECTED, THE CONTRACTOR SHALL PROVIDE A COMPLETE STAFF LAYOUT AND HAVE MANPOWER AND EQUIPMENT AVAILABLE TO UNLOAD, OPEN AND HANDLE PLANT MATERIAL DURING INSPECTION.

PART 2: MATERIALS

2.1 PLANT MATERIALS

A. GENERAL

1. PLANT MATERIALS SHALL MEAN TREES AND PLANTS OF ALL DESCRIPTIONS REQUIRED TO BE FURNISHED FOR THE PROJECT, IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ALL PLANT MATERIAL MUST BE TRUE TO NAME, WHICH SHALL CONFORM TO STANDARDIZED PLANT NAMES OF THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE, AND SHALL BE LEGIBLY TAGGED WITH THE NAME AND SIZE OF THE MATERIAL ACCORDING TO THE GENERAL NURSERY PRACTICE AS RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
2. ALL PLANTS SHALL BE FIRST-CLASS REPRESENTATIVES OF THEIR NORMAL SPECIES OR VARIETIES. PLANTS SHALL BE SOUND, HEALTHY, AND VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. UNLESS OTHERWISE SPECIFIED, PLANTS SHALL HAVE AVERAGE OR NORMALLY DEVELOPED BRANCH SYSTEMS AND VIGOROUS ROOT SYSTEMS. PLANTS SHALL BE FREE FROM SCALE, DISFIGURING KNOTS, SUN SCALD INJURIES, ABRASIONS OF THE BARK, OR OTHER OBJECTIONABLE BLEMISHES. WEAK PLANTS WILL NOT BE ACCEPTED. PLANTS MUST SHOW APPROPRIATE OF NORMAL HEALTH AND VIGOR IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS. ALL STOCK SHALL BE NURSERY GROWN.
3. PLANTS FURNISHED IN CONTAINERS SHALL HAVE THE ROOTS WELL ESTABLISHED IN THE SOIL MASS AND SHALL HAVE GROWN IN THE CONTAINER FOR AT LEAST ONE (1) GROWING SEASON. CONTAINERS SHALL BE OF A SIZE LARGE ENOUGH TO PROVIDE AN EARTH-ROOT MASS OF ADEQUATE DIAMETER AND DEPTH OF THE STEM DIAMETER AND PLANT HEIGHTS OR SPREAD, AS ESTABLISHED BY ACCEPTED NURSERY PRACTICE. PLANTS, OVER ESTABLISHED IN THE CONTAINER, AS EVIDENCED BY POT BOUND ROOT ENDS, WILL NOT BE ACCEPTED. BARE ROOT MATERIAL WILL BE ACCEPTED ONLY FOR SPRING PLANTING. BARE ROOT STOCK SHALL BE HANDLED ACCORDING TO STANDARD HORTICULTURAL PRACTICE WITH SPECIAL ATTENTION BEING PAID TO PREVENTING PLANT ROOTS FROM DRYING AND PLANTS BEING APPROPRIATELY STORED.
4. PLANTS LARGER THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE LANDSCAPE ARCHITECT.
5. THE HEIGHT OF TREES, MEASURED FROM THE CROWN OF THE ROOTS TO THE TOP OF THE TOP BRANCH AND CALIPER OF THE TRUNK SHALL BE TAKEN 6 INCHES ABOVE THE GROUND UP TO AND INCLUDING 4 INCH CALIPER SIZE, AND 12 INCHES ABOVE THE GROUND FOR LARGER SIZES, AND SHALL NOT BE LESS THAN THE MINIMUM SPECIFIED ON THE PLANT LIST. EXCEPT WHEN A CLUMP IS DESIGNATED, THE TRUNK OF EACH TREE SHALL BE A SINGLE TRUNK GROWING FROM A SINGLE UNMULATED CROWN OF ROOTS. NO PART OF THE TRUNK SHALL BE CONSPICUOUSLY CROOKED AS COMPARED TO NORMAL TREES OF THE SAME VARIETY. THE TRUNK SHALL BE FREE FROM SUN SCALD, FROST CRACKS OR WOUNDS RESULTING FROM ABRASIONS, FIRE, OR OTHER CAUSES. NO PRUNING WOUNDS SHALL BE PRESENT HAVING A DIAMETER OF MORE THAN TWO (2) INCHES AND SUCH WOUNDS MUST SHOW VIGOROUS BARK ON ALL EDGES. EVERGREEN TREES SHALL BE BRANCHED TO WITHIN ONE FOOT OF THE GROUND.
6. SHRUBS AND PERENNIALS SHALL COMPLY WITH THE SPECIFIED SPREAD, HEIGHT OR CONTAINER SIZE AS SPECIFIED ON THE PLANT LIST. THE MEASUREMENTS FOR HEIGHT ARE TO BE TAKEN FROM THE GROUND LEVEL TO THE AVERAGE HEIGHT OF THE TOP OF THE SHRUB AND NOT THE LONGEST BRANCH. THE THICKNESS OF EACH SHRUB SHALL CORRESPOND TO THE TRADE CLASSIFICATION "NO. 1". SINGLE STEMMED OR THIN PLANTS WILL NOT BE ACCEPTED. THE SIDE BRANCHES MUST BE GENEROUS, WELL-TWIGGED, AND THE PLANT AS A WHOLE WELL-BRANCHED TO THE GROUND. THE PLANTS MUST BE IN A MOIST VIGOROUS CONDITION, FREE FROM DEAD WOOD, BRUISES OR OTHER ROOT OR BRANCH INJURIES.
7. ALL PLANT MATERIAL SHALL COMPLY WITH STATE AND FEDERAL LAWS WITH RESPECT TO INSPECTION FOR PLANT DISEASE AND INFECTION. ANY INSPECTION CERTIFICATES REQUIRED BY LAW SHALL ACCOMPANY EACH SHIPMENT, INVOICE, OR ORDER OF STOCK.
8. ALL PLANT MATERIAL IS SUBJECT TO LANDSCAPE ARCHITECTS APPROVAL AND INSPECTION AT ANY PLACE, BEFORE DURING AND/OR AFTER PLANTING. ANY PLANT MATERIAL NOT APPROVED BY THE LANDSCAPE ARCHITECT SHALL BE IMMEDIATELY REMOVED FOR THE SITE.
9. NO PLANT MATERIAL SHALL BE ACCEPTED WITH LOOSE OR BROKEN BALLS, BROKEN CONTAINERS OR TUBE-PAKS

2.3 MULCH

- A. BARK MULCH: ALL BARK MULCH SHALL BE SHREDDED PINE BARK AS LOCALLY OR REGIONALLY MANUFACTURED, OR AN EQUAL APPROVED IN ADVANCE BY THE LANDSCAPE ARCHITECT.

2.4 PLANTING MIXTURE

- A. TOPSOIL: MOST TOPSOIL REQUIRED SHALL BE OBTAINED FROM ON-SITE STOCKPILED MATERIAL. SHOULD ADDITIONAL TOPSOIL BE NEEDED, IT SHALL BE IMPORTED MATERIAL FROM A LOCALLY APPROVED SOURCE. IT SHALL BE LOOSE, FRIABLE, AND SHALL CONTAIN ORDINARY AMOUNT OF HUMUS. IT SHALL CONTAIN NO LUMPS OF SOIL, ROCKS LARGER THAN 1 INCH, OR STICKS, OR ROOTS, AND OTHER DEBRIS. IT SHALL BE SUFFICIENTLY FERTILE TO SUSTAIN NORMAL, HEALTHY PLANT GROWTH AND SHALL NOT HAVE A PH VALUE HIGHER THAN 1.0 OR LOWER THAN 6.5. THE TOPSOIL SHALL BE DELIVERED IN AN UNFROZEN AND NON-MUDDY CONDITION AND MUST MEET THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- B. PEAT: PEAT SHALL BE SPHAGNUM PEAT, SEDGE PEAT MOSS. FURNISH AIR-DRYED, FINELY SHREDDED, ORPH BETWEEN 5.5 AND 6.5, CONTAINING NO MORE THAN THIRTY-FIVE (35%) PERCENT MOISTURE BY WEIGHT.
- C. COMPOSTED BARK MULCH: COMPOSTED BARK MULCH SHALL BE 1/4" MINUS, FINE TEXTURED AND WELL COMPOSTED MULCH SUITABLE FOR USE AS A PLANTING MIX amendment. IT SHALL BE LOCALLY OR REGIONALLY MANUFACTURED, OR AN EQUAL APPROVED IN ADVANCE BY THE LANDSCAPE ARCHITECT.
- D. TREES/SHRUB PLANTING MIX: TOPSOIL USED AS FILL AROUND PLANTS SHALL BE MIXED WITH PEAT MOSS AT THE RATE OF THREE PARTS TOPSOIL TO ONE PART PEAT.
- E. PERENNIAL/GROUND COVER PLANTING MIX: TOPSOIL USED AS FILL AROUND THESE PLANTS SHALL BE MIXED WITH PEAT MOSS AND COMPOSTED BARK MULCH AT THE RATE OF TWO PARTS TOPSOIL TO ONE PART PEAT TO ONE PART COMPOSTED BARK MULCH. THE ABOVE MIXTURE IS MIXED WITH MAG AMF (W. R. GRACE AND COMPANY, P.O. BOX 338, WEST CHICAGO, ILLINOIS) AT THE RATE OF 10 OUNCES PER CUBIC YARD OF PLANTING MIX.
- F. "ROOTS" - ROOT GROWTH ENHANCER: THIS PRODUCT SHALL BE A NATURAL, ORGANIC BIOSTIMULANT THAT PROMOTES ROOT GROWTH AND STRESS TOLERANCE IN PLANTS. APPLY TO ALL TREES, SHRUBS, AND PERENNIALS PER MANUFACTURER'S RECOMMENDATIONS.
- G. SUPERSORB C - WATER ABSORBENT GRANULES: THIS PRODUCT SHALL BE A COPOLYMER WATER ABSORBENT IN GRANULAR FORM TO BE INCORPORATED IN THE SPECIFIED PLANTING MIXES FOR BOTH TREES/SHRUBS AND PERENNIALS. ITS PURPOSE IS TO IMPROVE THE TOPSOIL'S WATER HOLDING CAPACITY.
- H. AGRIFORM FERTILIZER TABLETS: TREES AND SHRUBS SHALL BE FERTILIZED WITH TWO (2) FERTILIZER TABLETS PER PLANTING HOLE. TABLETS SHALL BE 21 GRAM SIZE, OF 20-10-5 ANALYSIS AS MANUFACTURED BY AGRIFORM.

2.5 MISCELLANEOUS MATERIALS

- A. WOOD STAKES: TREE SUPPORT SHALL BE 2" X 2" X 8', WOOD STAKES.
- B. GUYING WIRE: WIRE SHALL BE NUMBER 12 GAUGE GALVANIZED SOFT STEEL WIRE.
- C. HOSE: HOSE FOR COVERING WIRE SHALL BE NEW OR USED TWO PLY RUBBER HOSE NOT LESS THAN 1/2 INCH INSIDE DIAMETER, (PLASTIC CINCH-TIES OR EQUIVALENT FASTENING DEVICE MAY BE AN ACCEPTABLE GUY WIRE AND HOSE PROTECTOR SUBSTITUTE)
- D. TREE PAINT: TREE PAINT SHALL BE WATERPROOF, ASPHALT BASE PAINT WITH ANTISEPTIC PROPERTIES, MANUFACTURED FOR USE ON TREE WOUNDS; R/L.W. TREE SURGERY PAINT BY TOCH BROS., NEW YORK; SHERWIN WILLIAMS PRUNING COMPOUND OR APPROVED EQUAL.
- E. EMBULSION: EMBULSION SHALL BE AN EMBULSION PERMEABLE ENOUGH TO PERMIT TRANSPIRATION, AND WILL BE USED TO RETARD EXCESS WATER LOSS. MIX IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- F. TREE WRAP: TREE WRAPPING PAPER SHALL BE WATERPROOFED CREPE TREE WRAPPING PAPER, AT LEAST 2-1/2 INCHES IN WIDTH, MADE UP OF TWO LAYERS OF CREPE KRAFT PAPER, WEIGHING NOT LESS THAN 30 POUNDS PER REAM, CEMENTED TOGETHER WITH ASPHALT.
- G. TWINE: WRAPPING TWINE USED IN TREE WRAPPING SHALL BE COMPOSED OF A MINIMUM OF TWO PLY JUTE MATERIAL. SYNTHETIC MATERIALS SUCH AS NYLON OR PLASTIC WILL NOT BE PERMITTED.

PART 3: EXECUTION

3.1 SURFACE CONDITIONS

- A. INSPECTION: PRIOR TO ALL WORK OF THIS SECTION, CAREFULLY INSPECT THE INSTALLED WORK OF ALL OTHER TRADES AND VERIFY THAT ALL SUCH WORK IS COMPLETE TO THE POINT WHERE THIS INSTALLATION MAY PROPERLY COMMENCE. DETERMINE LOCATION OF UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER WHICH WILL AVOID POSSIBLE DAMAGE TO ANY INSTALLED UTILITIES.
- B. LOCATION:
1. VERIFY THAT PLANTING MAY BE COMPLETED IN ACCORDANCE WITH THE ORIGINAL DESIGN AND THE REFERENCED STANDARDS. STAKE OUT LOCATIONS OF ALL PLANTS AND SECURE THE LANDSCAPE ARCHITECT APPROVAL BEFORE EXCAVATING PLANT PITS.
2. WHEN CONDITIONS REQUIRE PLANTING TO TAKE PLACE IN AREAS ENCOUNTERED, SUCH AS RUBBLE FILL, LEDGE, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS, NOTIFY THE LANDSCAPE ARCHITECT BEFORE PLANTING.
- C. DISCREPANCIES:
1. IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT.
2. DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED.

3.2 TREE PROTECTION AND REMOVAL

- A. REMOVAL OF TREES:
1. TREES REMOVED UNDER THIS CONTRACT SHALL BE ACCOMPLISHED AS REQUIRED TO ACCOMMODATE THE SCOPE OF WORK AS INDICATED ON THE SITE PLANS AS PREPARED BY SHERMAN, GREINER, HALL, LTD. AND PROVAN & LORBER, INC. SITE GRADING AND GRUBBING WILL BE ACCOMPLISHED AS DIRECTED IN SECTION 0212 "SITE GRADING". ALL TREES AND STUMPS SHALL BE REMOVED FROM THE AREA TO BE OCCUPIED BY THE NEW PLAYFIELDS, ROADS, SURFACED AREAS AND PLANTED AREAS. REMOVAL OF TREES OUTSIDE THESE AREAS SHALL ONLY BE THOSE AS NOTED, MARKED AND APPROVED BY THE LANDSCAPE ARCHITECT.
2. NO OTHER TREES MAY BE CUT EXCEPT BY PERMISSION OF THE LANDSCAPE ARCHITECT. ALL STUMPS SHALL BE REMOVED.
- B. PROTECTION OF TREES:
1. GENERAL PROTECTION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF TOPS, TRUNKS, AND ROOTS OF EXISTING TREES ON THE SITE THAT ARE TO REMAIN. EXISTING TREES SUBJECT TO CONSTRUCTION DAMAGE SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED BEFORE ANY WORK IS STARTED; REMOVE BOXING WHEN DIRECTED. DO NOT PERMIT HEAVY EQUIPMENT OR STOCKPILES WITHIN BRANCH SPREAD. REMOVE INTERFERING BRANCHES WITHOUT INJURY TO TRUNKS AND COVER SCARS WITH TREE PAINT.
2. GRADING AROUND TREES: WHERE EXCAVATION, FILL OR GRADING IS REQUIRED WITHIN THE BRANCH SPREAD OF TREES THAT ARE TO REMAIN, THE WORK SHALL BE PERFORMED AS FOLLOWS:
- C. TRENCHING: WHEN TRENCHING OCCURS AROUND TREES TO REMAIN, THE TREE ROOTS SHALL NOT BE CUT BUT THE TRENCH SHALL BE TUNNELED UNDER AND AROUND THE ROOTS BY CAREFUL HAND DIGGING AND WITHOUT INJURY TO THE ROOTS.
- D. RAISING GRADES: WHEN THE EXISTING GRADE AT TREE IS BELOW THE NEW FINISHED GRADE, AND FILL NOT EXCEEDING 12 INCHES IS REQUIRED, CLEAN WASHED GRAVEL GRADED FROM 1 INCH TO 2 INCH SIZE SHALL BE PLACED DIRECTLY AROUND THE TREE TRUNK. THE GRAVEL SHALL EXTEND OUT FROM THE TRUNK ON ALL SIDES A MINIMUM OF 18 INCHES AND BE 12 INCHES DEEP. IF A DEPTH OF 12 INCHES IS NOT POSSIBLE, THE GRAVEL SHALL BE 18 INCHES DEEP. THE GRAVEL SHALL BE PLACED IN A MANNER THAT SHALL NOT BE LEFT IN CONTACT WITH THE TRUNKS OF ANY TREES REQUIRING FILL.
- E. TREES MARKED FOR PRESERVATION THAT ARE BURIED IN FILLS OVER 12" DEEP SHALL HAVE AN OPEN DRY WELL OF DURABLE MASONRY (WITHOUT MORTAR SITUATED AT LEAST 24" FROM THE TREE TRUNK. ALL WELLS ARE TO BE PROPERLY DRAINED. BEFORE FILLS OF OVER 12" ARE MADE UPON THE TREE ROOT AREAS, IT IS ADVISABLE TO SPREAD AT LEAST A 6" LAYER OF BROKEN STONE OR COARSE GRAVEL COVERED BY INVERTED SODS TO FACILITATE PROPER DRAINAGE AND AERATION.
- F. LOWERING GRADES: EXISTING TREES IN AREAS WHERE THE NEW FINISHED GRADE IS TO BE LOWERED, SHALL HAVE REGRADING WORK DONE BY HAND TO ELEVATION AS INDICATED. ROOTS ARE REQUIRED SHALL BE CUT CLEANLY 3 INCHES BELOW FINISHED GRADE AND SCARS ARE COVERED WITH TREE PAINT. TREES MARKED FOR PRESERVATION THAT ARE LOCATED MORE THAN 6" ABOVE PROPOSED GRADES SHALL STAND ON BROAD ROUNDED MOUNDS AND BE GRADED SMOOTHLY INTO THE LOWER LEVEL. EXPOSED OR BROKEN ROOTS SHALL BE CUT CLEAN AND COVERED WITH TOPSOIL.

3.3 PLANTING TREES, SHRUBS AND GROUND COVERS

- A. GENERAL:
1. PLANT NURSERY STOCK IMMEDIATELY UPON DELIVERY TO THE SITE AND APPROVAL BY THE LANDSCAPE ARCHITECT EXCEPT THAT, IF THIS IS NOT FEASIBLE, HEAL-IN ALL BALLED MATERIAL WITH DAMP SOIL AND PROTECT FROM SUN AND WIND.
2. REGULARLY WATER ALL NURSERY STOCK IN CONTAINERS AND TUBE-PAKS AND PLACE THEM IN A COOL AREA PROTECTED FROM SUN AND DRYING WINDS.
- B. EXCAVATION OF PLANT HOLES:
1. TREE PITS SHALL HAVE SUBSTANTIALLY VERTICAL SIDES AND HORIZONTAL BOTTOMS. DEPTH OF PIT BELOW FINISH GRADE SHALL BE AT LEAST 9 INCHES (FOR TREES) AND 6 INCHES (FOR SHRUBS) GREATER THAN THE DEPTH OF THE BALL. IN NO CASE SHALL DEPTH OF TREE PITS BE LESS THAN 24 INCHES BELOW FINISHED GRADE. DIAMETER OF PITS FOR ALL TREES SHALL BE AT LEAST 9 INCHES GREATER THAN THE MAXIMUM DIAMETER OF THE TREE BALL OR ROOT SYSTEM AND FOR SHRUBS 6 INCHES.
2. PLANTING POCKETS FOR TUBE-PAK, ONE GALLON CONTAINER SHRUBS, CONTAINERIZED PERENNIAL PLANTS & 1" CALIPER TREES INTENDED FOR "NATURALIZING" FILL AND DISTURBED SLOPES, SHALL BE EXCAVATED SIMILAR AS DESCRIBED ABOVE, BUT TO A DEPTH OF 6" BELOW THE BOTTOM OF THE TUBE-PAK OR CONTAINER AND A MINIMUM OF 12" IN DIAMETER.
- C. PLANTING OPERATION:
1. TREES AND SHRUBS SHALL BE SUPPLIED IN SIZES SHOWN ON THE PLANTING PLANS WITH ALL PLANTS BALLED AND BURLAPPED, CONTAINERIZED, OR IN TUBE-PAKS.
2. DURING PLANTING OPERATIONS, THE NURSERY STOCK SHALL NOT BE EXPOSED TO THE SUN, DRYING WINDS, OR WINTER FREEZING.
3. THE SOIL IN THE BOTTOM OF THE HOLE, WHICH HAS BEEN EXCAVATED TO THE PRESCRIBED REQUIREMENTS, SHALL BE LOOSENEED TO A DEPTH OF 3 INCHES AND MIXED WITH AN EQUAL AMOUNT OF TOPSOIL. A COMPACTED MOUND OF SOIL SHALL BE FORMED IN THE CENTER OF THE HOLE TO SUPPORT THE ROOTS OF THE PLANT. THE PLANT SHALL BE PLACED ON A VERTICAL POSITION. IT SHALL BE SO SET BY HAND AS TO HOLD IN A VERTICAL POSITION. THE PLANT SHALL BE SET BY ADJUSTING THE ELEVATION OF THE MOUND, THAT AFTER SETTLEMENT THE PLANT WILL STAND AT APPROXIMATELY THE SAME DEPTH IT STOOD IN THE NURSERY OR FIELD.
4. THE PLANT HOLE SHALL BE BACKFILLED WITH TOPSOIL, PEAT AND MAG AMP MIXTURE PLACED IN LAYERS AROUND THE ROOTS. EACH LAYER SHALL BE CAREFULLY TAMPED TO FILL ALL VOIDS AND PLACED IN MANNER TO AVOID INJURY TO THE TREE OR DISTURBING THE POSITION OF THE PLANT.
5. ALL BURLAP, ROPES OR WIRES SHALL BE COMPLETELY REMOVED FROM THE ROOT BALLS. TREES WITH WIRE BASKETS SHALL HAVE THE WIRE BASKET COMPLETELY REMOVED IF PRACTICAL. REMOVAL OF BASKET WIRE SHALL BE DONE WITH BOLT CUTTER OR SNAIL-SHAPED DEVICE AND NOT BEFORE THE BOTTOM HALF OF PLANT HOLE HAS BEEN BACKFILLED AND TAMPED SO AS TO PREVENT THE BALL FROM BREAKING APART OR LOOSENING DURING THIS OPERATION. UNTIE AND REMOVE ALL ROPES AROUND TRUNK.
6. WHEN APPROXIMATELY TWO-THIRDS OF THE PLANT HOLE HAS BEEN BACKFILLED, THE HOLE SHALL BE FILLED WITH WATER AND THE SOIL ALLOWED TO SETTLE AROUND THE ROOTS. AFTER THE WATER HAS BEEN ABSORBED, THE PLANT HOLE SHALL BE FILLED WITH TOPSOIL AND TAMPED LIGHTLY TO GRADE. ANY SETTLEMENT SHALL BE BROUGHT TO GRADE WITH TOPSOIL.
7. ALL PLANTS SHALL BE SET PLUMB AND STRAIGHT, AND AT SUCH A LEVEL THAT, AFTER SETTLEMENT, A NORMAL OR NATURAL RELATIONSHIP OF THE TRUNK CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. PLANTS SHALL BE LOCATED IN THE CENTER OF THE PIT. THE SURFACE ABOUT THE PLANT SHALL BE SMOOTH AND FORMED TO A CUP-SHAPED DEPRESSION ABOUT THE STEM OR TRUNK SO AS TO HOLD WATER. ONCE THIS CUP-SHAPED DEPRESSION HAS BEEN FORMED, THEN APPLY THE "ROOTS" GROWTH ENHANCER/BIOSTIMULANT, PER MANUFACTURER'S RECOMMENDATIONS, TO ALL TREES, SHRUBS AND PERENNIALS PRIOR TO MULCHING. UPON COMPLETION OF THE PLANTING, ALL SURPLUS SUBSOIL AND WASTE MATERIALS SHALL BE REMOVED.
8. FOR PLANTS ON LEVEL GROUND OR SLIGHT SLOPES, THE CONTRACTOR SHALL FORM AND LEAVE A SHALLOW BASIN A LITTLE LARGER THAN THE DIAMETER OF THE PLANT AND EACH PLANT SHALL BE SOWN AT A RATE OF 50 POUNDS PER 1000 SQUARE FEET AND SHALL BE PLANTED IN THE SPRING FROM APRIL 1ST TO MAY 30TH OR IN THE FALL FROM AUGUST 16TH TO OCTOBER 1ST.
9. IN CASE OF PLANTING IN THE OPEN ON HOT DAYS, SHORTEN THE TIME BETWEEN PLANTING AND WATERING.

3.4 SEED BED PREPARATION

- A. SUB GRADE PREPARATION: SEED BED PREPARATION SHALL PERTAIN TO THE PREPARATION OF THE SURFACE OF THE GROUND TO RECEIVE THE SEED. THE GROUND SHALL BE HAND OR MACHINE RAKED SO AS TO REMOVE ALL DEBRIS, CLONES, STONES, OR OTHER FOREIGN MATTER LARGER THAN 1 INCH, TO A DEPTH OF 4 INCHES. PRIOR TO DUMPING AND SPREADING OF TOPSOIL, THE SURFACE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 2 INCHES TO FACILITATE BONDING OF TOPSOIL TO SUB GRADE SOIL. WHERE SUB GRADES HAVE BEEN COMPACTED ARTIFICIALLY SO AS TO HOLD A DEPTH OF 6 INCHES. PRIOR TO SPRING TOPSOIL SHALL BE SUB GRADES SHALL BE GRADED EVENLY ACCORDING TO THE CONTRACT DOCUMENTS. SUCH DEBRIS, CLOD, ROCKS, AND OTHER MATERIAL SO REMOVED SHALL BE DISPOSED OF AS APPROVED BY THE LANDSCAPE ARCHITECT/OWNER'S REPRESENTATIVE. SEED BED PREPARATION SHALL NOT COMMENCE UNTIL THE MOISTURE CONDITIONS MAKE THE GROUND AREA AND SOIL FRIABLE.
- B. PREPARING UNDISTURBED AREAS: AREAS TO BE SEEDED, WHICH HAVE NOT BEEN DISTURBED BY SITE GRADING OR TOPSOIL STRIPPING OPERATIONS, SHALL BE MOVED AND RAKED PRIOR TO TILLING AND TOP SOILING OPERATIONS. TILLAGE OF THE EXISTING VEGETATION INTO THE GROUND WILL NOT BE ACCEPTED.

3.5 TOPSOIL PLACEMENT

- A. SPREADING: TOPSOIL SHALL BE SPREAD EVENLY ON THE PREPARED AREAS TO A MINIMUM DEPTH OF 6 INCHES AFTER MACHINE COMPACTION. SPREADING SHALL NOT BE DONE WHEN THE GROUND OR TOPSOIL IS FROZEN OR EXCESSIVELY WET. AFTER SPREADING, ANY LARGE, STIFF CLODS OR HARD LUMPS SHALL BE BROKEN UP AND THE GROUND SHALL BE HAND OR MACHINE RAKED TO REMOVE ALL DEBRIS, STONES, AND FOREIGN MATTER LARGER THAN 1 INCH TO A DEPTH OF 4 INCHES.
- B. FINISH GRADING: GRADE THE AREAS TO FINISH GRADES FILLING AS NEEDED OR REMOVING SURPLUS DIRT AND FLOATING AREAS TO A SMOOTH UNIFORM GRADE. ALL LAWN AREAS SHALL BE SLOPE TO DRAIN. WHEN FINISH GRADING IS SHOWN, AREAS SHALL HAVE A SMOOTH AND CONTINUOUS GRADE BETWEEN EXISTING OR FIXED CONTROLS (SUCH AS WALKS, CURBS, OR WALLS), RAKE AND LEVEL AS NECESSARY TO OBTAIN TRUE EVEN LAWN SURFACES. ALL FINISH GRADES SHALL MEET THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE SEED IS SOWN OR SOD IS PLACED.
- C. SEED BED PREPARATION: AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDED SHALL BE LOOSENEED TO PROVIDE A ROUGH, FIRM BUT FINELY PULVERIZED SEED BED. THE INTENT IS A TEXTURE CAPABLE OF RETAINING WATER, SEED, AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TO GERMINATE. SEED SHALL BE APPLIED TO THE CONDITIONED SEED BED AT MORE THAN 48 HOURS AFTER THE SEED BED HAS BEEN PREPARED.
- D. WATER: IF THERE HAS BEEN A TIME LAPSE BETWEEN THE PREPARATION OF TOPSOIL AND SEEDING OPERATIONS TO ALLOW IT TO BECOME SETTLED AND COMPACTED ON THE SURFACE, THE AREA TO BE PLANTED WITH SEED SHALL BE THOROUGHLY HARROWED, WORKED TO A DEPTH OF 4 INCHES SO AS TO PROVIDE A SURFACE OF SUCH CONDITION THAT IT WILL ALLOW HAND RAKING AND APPLICATION OF THE SEED IN COMPLIANCE WITH THESE SPECIFICATIONS.
- E. FERTILIZER/SOIL AMENDMENTS: APPLICATION OF FERTILIZER WILL BE IN 2 STAGES. TWO WEEKS PRIOR TO APPLICATION OF SEED, FERTILIZER SHALL BE APPLIED AT THE RATE OF 3 LBS/1000 S.F. FOR TURF AREAS. FERTILIZER SHALL BE APPLIED BY BROADCASTING OR DRILL METHODS. IT SHALL BE APPLIED SEPARATELY FROM THE SEED AND MIXED INTO THE SOIL TO A MINIMUM DEPTH OF 2 INCHES AND MAY BE INCORPORATED AS PART OF THE TOPSOIL PLACEMENT AND SEED BED PREPARATION OPERATIONS. SPRINKLE IMMEDIATELY AFTER INITIAL APPLICATION OF THE FERTILIZER WITH A FINE SPRAY UNTIL GROUND IS THOROUGHLY SATURATED, WITH PARTICULAR CARE TO AVOID RUNOFF ON SLOPING AREAS.
1. THE 2ND APPLICATION WILL FOLLOW THE FOLLOWING SEASON WITHIN THE SPECIFIED WARRANTY PERIOD AT A RATE DETERMINED BY SOIL TEST RESULTS FOR BOTH TURF AND NATIVE GRASS/ WILDFLOWER AREAS.
2. APPLICATION OF SUPERPHOSPHATE AND GROUND LIMESTONE SHALL BE APPLIED AT RATES DETERMINED BY SOLS TEST RESULTS.
3. SEEDING: IMMEDIATELY PRIOR TO THE APPLICATION OF THE SEED, THE SOIL SHALL BE LOOSE TO A DEPTH OF AT LEAST 1 INCH AND FREE FROM ALL MATERIAL AS SPECIFIED. IF SOIL IS TOO LOOSE OR DRY FOR GOOD HANDLING, IT SHOULD BE MOISTENED AND ROLLED LIGHTLY.
4. SEEDING SHALL BE DONE WITHIN THE SPECIFIED TIME PERIODS AND AT THE FOLLOWING RATES:
- a. FINE LAWN SEED SHALL BE SOWN AT A RATE OF 3.0 POUNDS PER 1000 SQUARE FEET AND SHALL BE PLANTED IN THE SPRING FROM APRIL 1ST TO MAY 30TH OR IN THE FALL FROM AUGUST 16TH TO OCTOBER 1ST.
- b. NATIVE SEED SHALL BE SOWN AT A RATE OF 5.0 POUNDS PER 1000 SQUARE FEET AND SHALL BE PLANTED IN THE SPRING FROM APRIL 1ST TO MAY 30TH OR IN THE FALL FROM AUGUST 16TH TO OCTOBER 1ST.
5. METHODS: SEEDING BY DRILL IS PREFERABLE, HOWEVER, HYDRAULIC SEEDING OR BROADCASTING WILL BE PERMITTED. BROADCAST SEEDING AND HYDRAULIC SEEDING SHALL NOT BE USED DURING ADVERSE WEATHER. AREAS SOWN BY HYDRAULIC OR BROADCAST METHODS WILL BE VISUALLY INSPECTED FOR UNIFORMITY OF APPLICATION. AREAS WHICH FAIL TO REVEAL AN AVERAGE OF TWO SEEDS PER SQUARE INCH WILL BE RE-SEWN AT NO ADDITIONAL EXPENSE TO THE OWNER. THE APPLIED SEED, REGARDLESS OF APPLICATION, SHALL NOT BE COVERED BY A SOIL THICKNESS NO GREATER THAN 1/2 INCH.
- a. SEEDING BY DRILL: SEEDING EQUIPMENT USED FOR APPLYING GRASS SEED MUST BE DESIGNED, MODIFIED, OR EQUIPPED TO REGULATE THE APPLICATION RATE AND PLANTING DEPTH OF GRASS SEED. SEED MUST BE UNIFORMLY DISTRIBUTED IN THE DRILL HOPPER DURING THE DRILLING OPERATION. ALL GRASS ESTABLISHMENT EQUIPMENT SHALL BE OPERATED PERPENDICULAR TO THE SLOPE DRAINAGE. A DRILL SHALL BE NO WIDER THAN THE WIDTH OF THE AREA WHICH IT IS TO OPERATE. THE ROWS OF PLANTED SEEDS SHALL BE A MAXIMUM OF 8 INCHES APART AND SHALL BE AT RIGHT ANGLES TO THE FINISHED SLOPES.
- b. BROADCAST SEEDING: WHEN SEED IS SOWN BY BROADCASTING, EXERCISE GREAT CARE THAT THE DISTRIBUTION OF SEED IS UNIFORM. SEED SHALL BE OBTAINED. SEEDING SHALL BE DONE ON A SLOPE TO DRAIN. HOPPER TYPE SEEDER WITH ONE HALF OF THE SEED FOR EACH AREA BEING SOWN AT RIGHT ANGLES TO THE OTHER HALF. SEED DISTRIBUTION BY BROADCASTING SHALL BE COVERED WITH 1/4 TO 1/2 INCH OF SOIL. THE SEED MAY BE COVERED BY RAKING, DRAGGING, OR BY APPROPRIATE MECHANICAL MEANS.
- c. HYDRAULIC SEEDING: WHEN HYDRAULIC SEED IS USED, SEED AND MULCH SHALL BE APPLIED IN SEPARATE AND DISTINCT OPERATIONS EXCEPT FOR THE FOLLOWING SEED PREPARATION:
6. THE CONTRACTOR MUST PROVIDE ONE POUND OF MULCH PER EACH THREE GALLONS OF WATER IN THE HYDROSEEDER AS A CUSHION AGAINST SEED DAMAGE. THE MULCH USED AS A CUSHION MAY BE PART OF THE TOTAL REQUIRED MULCH WITH THE REMAINDER APPLIED AFTER THE SEED IS METERING DURING APPLICATION.

7. THE CONTRACTOR MAY APPLY MULCH AND LAWN SEED MIX HYDRAULICALLY IN A SINGLE APPLICATION, PROVIDING ONE HALF OF THE SEED HAS BEEN SOWN BY BROADCAST OR DRILL METHODS AS AN INITIAL APPLICATION AND THE RATE OF APPLICATION OF LAWN SEED MIX HYDRAULICALLY IS NOT LESS THAN 400 POUNDS PER ACRE.
8. THE APPLICATION OF THE SEED SLURRY SHALL BE MADE WITH EQUIPMENT HAVING A BUILT-IN AGITATION SYSTEM AND OPERATING CAPACITY SUFFICIENT TO AGITATE, SUSPEND AND HOMOGENEOUSLY MIX A SLURRY CONTAINING WATER, SEED, AND MULCH OF SEED. THE SLURRY SHALL BE SPRAYED OVER THE SOIL IN A UNIFORM COAT. ALL HYDRAULICALLY SEED AREAS SHALL BE HYDROMULCHED UPON COMPLETION.
- F. WATERING: WATERING IMMEDIATELY AFTER SEEDING OR MULCHING WITH A FINE SPRAY TO A DEPTH OF 6 INCHES. AVOID RUNOFF ON SLOPING AREAS. THE SURFACE LAYER OF THE SOIL MUST BE KEPT DAMP BY FREQUENT LIGHT WATERING DURING THE GERMINATION PERIOD AND UNTIL PLANTS ARE FIRMLY ROOTED.
- G. PROTECTION: PROTECT ALL SEEDED AREAS BY ERECTING TEMPORARY FENCES, BARRIERS, SIGNS, ETC. AS NECESSARY TO PREVENT TRAFFIC. THEY SHALL REMAIN IN PLACE FOR AT LEAST SIX WEEKS UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE LANDSCAPE ARCHITECT.
- H. MULCHING:
1. MULCH ALL HYDROSEEDED AREAS, DRAINAGE SWALES, SLOPES 4:1 OR STEEPER, AND ANY AREAS WHERE LIKELY HAZARD OF EROSION EXISTS. TOPSOIL OR SEED WHICH WASHES OUT FOR REASONS ATTRIBUTABLE TO THE CONTRACTOR'S ACTIVITIES OR FAILURE TO TAKE PROPER PRECAUTIONS, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- a. ALL STRUCTURES SHALL BE PROTECTED FROM HYDRAULIC APPLICATION OF MULCH MATERIAL AND MATERIAL DEPOSITED ON FACILITIES SHALL BE REMOVED.
- b. MULCH SHALL NOT BE APPLIED IN THE PRESENCE OF FREE SURFACE WATER, BUT MAY BE APPLIED ON DAMP GROUND.
2. APPLICATION OF ORGANIC MULCH
- a. WET APPLICATION: ORGANIC MULCH SHALL BE MIXED WITH WATER AT A RATE OF ONE POUND MULCH (DRY WEIGHT) TO ONE GALLON OF WATER HYDRAULICALLY APPLIED AS PER MANUFACTURERS RECOMMENDATIONS AT A MINIMUM RATE OF 2000 POUNDS PER ACRE.
- b. DRY APPLICATION: ORGANIC MULCH SHALL BE BROADCAST AT A MINIMUM RATE OF 2000 POUNDS PER ACRE, AND SHALL BE ROLLED LIGHTLY TO SET FIRMLY INTO THE SOIL.

3.6 MULCHING

A. MULCHING:

1. ALL TREES AND SHRUB BEDS WILL BE CULTIVATED FOLLOWING THE GENERAL SHAPE OF THE BEDS AS INDICATED ON THE PLANS. FORM A SAUCER AROUND THE TOP OF THE PLANTING PIT TO HELP HOLD WATER DURING WATERING AND FORM THE OUTLINE FOR MULCHING.
2. APPLY THE SHREDDED MULCH TO A DEPTH OF 2 INCHES AND SPRAY OVER THE ENTIRE AREA OF EACH PLANTING PIT.
3. THOROUGHLY SOAK ALL MULCH AREAS. AFTER WATERING, RAKE MULCHED AREAS AND LEAVE IN A COMPLETED AND FINISHED CONDITION. THOROUGHLY SOAK ALL MULCH AREAS. AFTER WATERING, RAKE MULCHED AREAS AND LEAVE IN A COMPLETED AND FINISHED CONDITION.

3.7 STAKING, GUYING, AND WRAPPING

- A. STAKING AND GUYING:
1. TREES GREATER THAN 1-1/2" IN CALIPER, SHALL BE STAKED IMMEDIATELY AFTER PLANTING. GUY WIRES SHALL BE ENCASED IN HOSE TO PREVENT DIRECT CONTACT WITH BARK OF THE TREE OR IT SHALL BE PLACED AROUND THE TRUNK IN A SINGLE LOOP. WIRES SHALL BE TIGHTENED AND KEPT TAUNT BY TWISTING THE STRANDS TOGETHER OR WITH TURNBUCKLES.
2. WRAP TREES IMMEDIATELY AFTER PLANTING, BUT NOT BEFORE THE CONDITION OF THE TRUNKS HAS BEEN INSPECTED AND APPROVED. CAREFULLY WRAP THE TRUNKS OF DECIDUOUS TREES WITH TREE WRAPPING PAPER. BEGIN THE WRAPPER AT THE BASE OF THE TRUNK JUST ABOVE THE ROOTS AND BELOW THE NORMAL GROUND LINE, AND EXTEND WRAPPING UPWARD IN SPIRAL MANNER WITH AN OVERLAP OF ONE-HALF (1/2) THE WIDTH OF THE PAPER STRIP. COVER WITH SOIL THE PORTION OF THE WRAPPING BELOW THE FINISHED GRADE. THE PAPER SHALL BE HELD IN PLACE WITH APPROVED TWINE OR TAPE. TIE THE TWINE AROUND THE TREE IN AT LEAST THREE PLACES, IN ADDITION TO THE TOP AND BOTTOM.
3. TREE GUYING AND STAKING SHALL BE AS DETAILED AS PER PROJECT PLANS AND COMPLETED IMMEDIATELY AFTER PLANTING.

3.8 PRUNING

A. GENERAL:

1. EACH TREE SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF PLANT. THE OBJECTIVE IS TO PRESERVE A SHAPE AND FORM REPRESENTATIVE OF THE SPECIES. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.
- B. PRUNING:
1. ALL DEAD WOOD, SUCKERS, BADLY BRUISED OR BROKEN BRANCHES SHALL BE REMOVED. THE TOPS OF DECIDUOUS PLANTS SHALL BE PRUNED EITHER BEFORE OR AFTER PLANTING TO BALANCE ROOT LOSS DUE TO TRANSPLANTING. THIS SHALL CONSIST OF REMOVING THE TOP OF THE TRUNK BY CUTTING OUT AND ANCHORING BACK THE STEMS AND TOP BRANCHES, AND SHALL BE DONE SO THAT THE PLANT RETAINS ITS NATURAL FORM. EXCEPT WHEN HEADING BACK, ALL CUTS SHALL BE MADE FLUSH WITH THE TRUNK OR BRANCH. NEVER CUT A LEADER.
2. CUTS OVER 1/2 INCH IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT. PAINT SHALL COVER ALL EXPOSED CAMBIAL AS WELL AS OTHER EXPOSED LIVING TISSUE. PAINT SHALL BE WATERPROOF, ADHESIVE AND ELASTIC, ANTISEPTIC, FREE FROM KEROSENE, COAL TAR CREOSOTE OR ANY OTHER MATERIAL INJURIOUS TO THE LIFE OF THE TREE AND SHALL BE APPROVED BEFORE IT IS USED. USE WOODTAR OR APPROVED EQUAL.
3. TREES THAT HAVE BEEN SO BADLY PRUNED AS TO SPOIL THEIR REPRESENTATIVE FORM AND USEFULNESS SHALL BE REMOVED AND REPLACED.

3.9 WATERING

- A. ALL PLANTS SHALL BE WATERED TWICE WITHIN THE FIRST 24 HOURS OF THE TIME OF PLANTING, AND ALL PLANTS DURING THE MAINTENANCE PERIOD SHALL BE WATERED AT LEAST TWICE EACH WEEK. AT EACH WATERING THE SOIL AROUND EACH TREE OR SHRUB SHALL BE THOROUGHLY SATURATED. IF SUFFICIENT MOISTURE IS RETAINED IN THE SOIL, AS DETERMINED BY THE LANDSCAPE ARCHITECT, THE REQUIRED WATERING MAY BE REDUCED.
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LANDSCAPE GENERAL SPECIFICATIONS, CONT.

- B. SOD: UPON DELIVERY OF SOD TO THE WORK SITE, USE ALL MEANS NECESSARY TO PROTECT AND MAINTAIN THE SOD BEFORE, DURING AND AFTER INSTALLATION. DELIVERY OF SOD SHALL BE CAREFULLY COORDINATED SO ITS PLACEMENT CAN PROCEED DIRECTLY AFTER ITS ARRIVAL. SOD SHALL BE INSTALLED ON SITE NO MORE THAN 24 HOURS AFTER CUTTING.
- C. FERTILIZER/LIME: FERTILIZER AND LIME SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL, UNOPENED CONTAINERS BEARING THE MANUFACTURER'S GUARANTEED CHEMICAL ANALYSIS, NAME, TRADE NAME, TRADEMARK, AND CONFORMANCE WITH STATE AND FEDERAL LAWS. IN LIEU OF CONTAINERS, BOTH MATERIALS MAY BE FURNISHED IN BULK AND A CERTIFICATE INDICATING THE ABOVE INFORMATION SHALL ACCOMPANY EACH DELIVERY.
- D. STORAGE: SEED, HYDRAULIC MULCH, HYDROMULCH BINDER, FERTILIZER AND LIME SHALL BE KEPT IN DRY STORAGE AWAY FROM CONTAMINANTS. THEY SHALL BE UNIFORM IN COMPOSITION, DRY, UNFROZEN AND FREE FLOWING. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY MATERIAL WHICH HAS BECOME CAKED FOR OTHERWISE DAMAGED OR DOES NOT MEET SPECIFIED REQUIREMENTS.
- E. REPLACEMENTS: IN THE EVENT OF REJECTION OF THE SEED, IMMEDIATELY MAKE ALL REPLACEMENTS NECESSARY TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.
- F. SCHEDULES:
1. SEASONAL LIMITATIONS CONDUCT SEEDING OPERATIONS DURING THE SPECIFIED TIME PERIODS. IF SPECIAL CONDITIONS EXIST THAT MAY WARRANT A VARIANCE IN THE SPECIFIED PLANT DATES OR CONDITIONS, A WRITTEN REQUEST SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT STATING THE SPECIAL CONDITIONS AND PROPOSED VARIANCE.
- G. NOTICE TO PROCEED:
1. THE CONTRACTOR SHALL NOT PROCEED WITH SEEDING AND SOD PLACEMENT OPERATIONS UNTIL THE IRRIGATION SYSTEM HAS BEEN TESTED AND APPROVED.

PART 2: MATERIALS

- 2.1 TOPSOIL
- A. TOPSOIL REQUIRED SHALL BE OBTAINED FROM ON-SITE STOCKPILED MATERIAL WHICH WILL BE PLACED BY THE SITE CONTRACTOR. SHOULD ADDITIONAL TOPSOIL BE NEEDED TO BRING LANDSCAPE AREAS UP TO GRADE, THEN IT SHALL BE FURNISHED AND PLACED BY THE SITE CONTRACTOR, WITH IMPORTED MATERIAL FROM A LOCALLY APPROVED SOURCE.
- B. TOPSOIL SHALL BE A "FINE SANDY LOAM" OR A "SANDY LOAM" AS DETERMINED BY MECHANICAL ANALYSIS AND BASED ON THE "USDA" CLASSIFICATION SYSTEM. IT SHALL BE OF UNIFORM COMPOSITION, WITHOUT ADMIXTURE OF SUBSOIL, LOOSE, FRIABLE, AND SHALL CONTAIN ORDINARY AMOUNT OF HUMUS. IT SHALL CONTAIN NO LUMPS OF SOIL, ROCKS LARGER THAN 1 INCH, OR STICKS, OR ROOTS, AND OTHER DEBRIS. IT SHALL BE SUFFICIENTLY FERTILE TO SUSTAIN NORMAL HEALTHY LAWN GROWTH AND SHALL NOT HAVE A PH VALUE HIGHER THAN 7.0 OR LOWER THAN 6.5 THE TOPSOIL SHALL BE DELIVERED IN AN UNFROZEN AND NON-MUDDY CONDITION AND MUST MEET THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- C. THE LOAM PLACED IN LANDSCAPE AREAS ON THE SITE MUST BE TESTED AND AMENDED AS RECOMMENDED BY SOIL TESTING FOR LAWNS AND PLANTING. THE COST OF ANY AMENDMENT TO THE LOAM AND TOPSOIL SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY. THE SITE CONTRACTOR SHALL FURNISH ADDITIONAL TOPSOIL AS REQUIRED.

2.2 SEED

- A. GENERAL:
1. CONTRACTOR SHALL SUBMIT CERTIFICATION TAGS FOR APPROVAL. ALL GRASS SEED SHALL BE:
- FREE FROM NOXIOUS WEED SEEDS AND RECLEANED GRADE A RECENT CROP SEED
 - TREATED WITH APPROPRIATE FUNGICIDE
 - DELIVERED TO THE SITE IN SEALED CONTAINERS WITH DEALER GUARANTEED ANALYSIS.
- B. FINE LAWN SEED MIXTURE:
1. ALL SEEDING, FINE LAWN AREAS AND INTENDED FOR THE PLAYFIELD AREAS AS DESIGNATED ON THE PLANS, SHALL BE SEEDDED WITH THE MIXTURE HEREIN SPECIFIED:
- | NAME OF GRASS | PROPORTION BY WEIGHT |
|----------------------------|----------------------|
| CLASSIC KENTUCKY BLUEGRASS | 20% |
| KENTUCKY BLUEGRASS | 20% |
| PERENNIAL RYEGRASS | 20% |
| SRX200 PERENNIAL RYEGRASS | 15% |
| SHADOW C CHEWINGS FESCUE | 10% |
| SHADEMASTER RED FESCUE | 10% |
| SR5000 CHEWINGS FESCUE | 5% |
- C. NATIVE SEED MIXTURE:
1. FOR ALL TURF AREAS NOT DESIGNATED ON THE PLANS FOR USE AS FINE LAWN ON THE PLAYFIELD AREAS, SHALL BE SEEDDED WITH THE MIXTURE HEREIN SPECIFIED:
- | NAME OF GRASS | PROPORTION BY WEIGHT |
|---------------------|----------------------|
| TALL FESCUE | 53% |
| CREEPING RED FESCUE | 41% |
| REDTOP | 6% |
2. ALL SEED USED SHALL MEET THE FOLLOWING MINIMUM STANDARDS:
- | | |
|-------------|-----|
| PURITY | 95% |
| GERMINATION | 85% |

2.3 SOD

- A. ALL SOD SHALL BE WELL ESTABLISHED MOWN LAWN GRASS. IT SHALL BE VIGOROUS, WELL ROOTED, HEALTHY TURF FREE FROM DISEASE, INSECT PESTS, WEEDS AND OTHER GRASSES, STONES AND ANY OTHER HARMFUL, OR DELETERIOUS MATTER.
- B. IT SHALL HAVE BEEN GROWN FROM A SEED MIXTURE IDENTICAL TO THAT SPECIFIED FOR THE FINE LAWN SEED MIXTURE SPECIFIED ABOVE. THIS SOD IS AVAILABLE FOR GOLD STAR SOD FARMS, CANTERBURY, NH. NOT MORE THAN 5% WEED AND UNDESIRABLE GRASSES SHALL BE ALLOWED.
- C. SOD SHALL BE A MINERAL BACKED SOD GROWN IN THE NEW ENGLAND REGION. IT SHALL BE CUT IN UNIFORMLY WIDE STRIPS, 3/4" IN THICKNESS WITH CLEAN, CUT EDGES. SOD SHALL BE ROLLED OR FOLDED PRIOR TO LIFTING AND HANDLING TO PREVENT TEARING, BREAKING, DRYING AND ANY OTHER DAMAGE.

2.4 SOIL AMENDMENTS

- A. FERTILIZER:
1. FERTILIZER TO BE SPREAD ON AREAS TO BE SEEDDED SHALL BE COMMERCIALY PREPARED AND SHALL CONTAIN THE FOLLOWING PERCENTAGES BY WEIGHT:
- LAWN SEED AND SOD AREAS:
- 16% NITROGEN
 - 16% PHOSPHORIC ACID
 - 16% POTASH
 - .5% ZINC
2. USE FERTILIZER PERCENTAGE FOR ESTIMATING PURPOSES ONLY. AFTER ON-SITE, STOCKPILED TOPSOIL HAS BEEN PLACED, THE CONTRACTOR SHALL SUBMIT A LABORATORY CHEMICAL ANALYSIS TO THE LANDSCAPE ARCHITECT FOR REVIEW AND DETERMINATION OF A FERTILIZER ANALYSIS AND APPLICATION RATE. THIS CHEMICAL ANALYSIS SHALL BE OBTAINED FROM A MINIMUM OF FOUR (4) RANDOM SOIL SAMPLES SELECTED AND TAKEN IN THE FIELD PER LANDSCAPE ARCHITECT'S OWNER'S REPRESENTATIVE APPROVAL.
3. THE TOPSOIL ANALYSIS SHALL INCLUDE THE FOLLOWING CHEMICAL PARAMETERS:
- | PH | |
|----------------------|----------|
| NITRATE | NPPM |
| ORGANIC MATTER | % |
| PHOSPHOROUS (OILSON) | PPM |
| POTASSIUM | PPM |
| SODIUM | MEQ/100G |
| SULFATE | PPM |
| CONDUCTIVITY | MMHGS/CM |
4. COMMERCIAL FERTILIZER SHALL BE COMPLETE, UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THE FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL WATERPROOF CONTAINERS, EACH BEARING THE MANUFACTURER'S STATEMENT OF ANALYSIS.
- D. SUPERPHOSPHATE:
1. INCORPORATE SUPERPHOSPHATE INTO THE TOPSOIL WITH THE FIRST APPLICATION OF COMMERCIAL FERTILIZER AT THE RATE OF TWENTY POUNDS PER THOUSAND SQUARE FEET OR AT THE RATE DETERMINED FROM THE TEST RESULTS.
- E. GROUND LIMESTONE:
1. INCORPORATE GROUND LIMESTONE INTO THE TOPSOIL AFTER IT HAS BEEN SPREAD AT THE RATE OF FIFTY POUNDS PER THOUSAND SQUARE FEET OR AT THE RATE DETERMINED FROM THE TEST RESULTS TO ACHIEVE A PH OF 6.0 TO 6.5.
- F. MULCH:
1. WHERE A SPECIFIC TYPE OF MULCH IS REQUIRED, THE TYPE WILL BE DESCRIBED IN THE EXECUTION SECTION. WHERE MULCHING REQUIREMENTS CAN BE MET EQUALLY WELL BY ONE OF SEVERAL TYPES, THE CONTRACTOR SHALL HAVE THE OPTION OF SELECTING ONE OF THE ACCEPTABLE TYPES.
- a. ORGANIC MULCH: JACKLIN ORGANIC MULCH AS MANUFACTURED BY THE VAUGHAN-JACKLIN CORPORATION, EAST 8803 SPRAGUE, SPOKANE, WASHINGTON 99213 - (TELEPHONE (509) 826-6241), OR APPROVED EQUAL.
- b. VEGETATIVE MULCH: VEGETATIVE MULCH MATERIAL SHALL BE COMPOSED OF WHEAT STRAW, RYE STRAW OR BARLEY STRAW, IN THAT ORDER OF PREFERENCE AND SHALL BE FREE OF NOXIOUS WEED SEEDS, STONES, DIRT, ROOTS, STUMPS, OR OTHER FOREIGN MATERIAL.
- c. CELLULOSE FIBER MULCH: WOOD CELLULOSE FIBER MULCH SHALL CONSIST OF VIRGIN WOOD FIBERS MANUFACTURED FROM WHOLE WOOD CHIPS AND SHALL BE PROCESSED IN SUCH A MANNER THAT IT WILL NOT CONTAIN ANY GROWTH OR GERMINATION INHIBITING FACTORS. THE MULCH SHALL BE DYED AN APPROPRIATE COLOR TO FACILITATE VISUAL METERING DURING APPLICATION. UPON APPLICATION, THE MATERIAL SHALL PRODUCE A MAT ABSORPTION AND PERCOLATION AND SHALL COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL. THE WOOD CELLULOSE FIBERS MUST MAINTAIN UNIFORM SUSPENSION IN WATER UNDER AGITATION.
- E. MULCH TACKIFIERS:
1. TACKIFIERS MIXED WITH OR APPLIED OVER STRAW SHALL BE TERRA-TACK AR, OR APPROVED EQUAL OF NON-ASPHALTIC FORMULATION. TACKIFIERS USED TO ANCHOR VEGETATIVE OR CELLULOSE FIBER MULCH SHALL BE TERRA TACK III, OR APPROVED EQUAL OF NON-ASPHALTIC FORMULATION.
- F. WATER:
1. WATER SHALL BE AVAILABLE FROM MUNICIPAL SYSTEM THROUGH CONTRACTOR.
- G. EROSION CONTROL BLANKET:
1. EROSION CONTROL FABRIC MAY BE REQUIRED AS AN ADDITIONAL MEASURE TO PREVENT EROSION ON SLOPES GREATER THAN 2:1 AND IN DRAINAGE SWALES. IF THIS MATERIAL IS NECESSARY AND AUTHORIZED WHILE WORK IS IN PROGRESS, THEN THE MATERIAL SHALL BE CURLEX EROSION CONTROL BLANKET CONSISTING OF A DENSE MAT OF CURLED AND SEASONED ASPEN WOOD EXCELSDIOR BOUND WITH A TOUGH, PHOTO-DEGRADABLE, EXTRUDED PLASTIC MESH AS MANUFACTURED BY AMERICAN EXCELSDIOR CO., ARLINGTON, TEXAS OR APPROVED EQUAL.

PART 3: EXECUTION

3.1 SURFACE CONDITIONS

- A. INSPECTION:
1. PRIOR TO ALL WORK OF THIS SECTION, CAREFULLY INSPECT THE INSTALLED WORK OF ALL OTHER TRADES AND VERIFY THAT ALL SUCH WORK IS COMPLETE TO THE POINT WHERE THIS INSTALLATION MAY PROPERLY COMMENCE. VERIFY THAT SEEDING MAY BE COMPLETED IN ACCORDANCE WITH THE ORIGINAL DESIGN AND THE REFERENCED STANDARDS.
- B. DISCREPANCIES:
1. IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT.
2. DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED.

3.2 SEED BED PREPARATION

- A. SUBGRADE PREPARATION:
1. SEED BED PREPARATION SHALL PERTAIN TO THE PREPARATION OF THE SURFACE OF THE GROUND TO RECEIVE THE SEED. THE GROUND SHALL BE HAND OR MACHINE RAKED SO AS TO REMOVE ALL DEBRIS, CLOUDS, STONES, OR OTHER FOREIGN MATTER LARGER THAN 1 INCH, TO A DEPTH OF 4 INCHES. PRIOR TO DUMPING AND SPREADING OF TOPSOIL, THE SURFACE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 2 INCHES TO FACILITATE BONDING OF TOPSOIL TO SUBGRADE SOIL. WHERE SUBGRADES HAVE BEEN COMPACTED ARTIFICIALLY SCARIFY TO A DEPTH OF 6 INCHES. PRIOR TO SPREADING TOPSOIL, ALL SUBGRADES SHALL BE GRADED EVENLY ACCORDING TO THE CONTRACT DOCUMENTS.
2. SUCH DEBRIS, CLOUDS, ROCKS, AND OTHER MATERIAL SO REMOVED SHALL BE DISPOSED OF AS APPROVED BY THE LANDSCAPE ARCHITECT/OWNER'S REPRESENTATIVE. SEED BED PREPARATION SHALL NOT COMMENCE UNTIL THE MOISTURE CONDITIONS MAKE THE GROUND AREA AND SOIL FRIABLE.
- B. PREPARING UNDISTURBED AREAS:
1. AREAS TO BE SEEDDED, WHICH HAVE NOT BEEN DISTURBED BY SITE GRADING OR TOPSOIL STRIPPING OPERATIONS, SHALL BE MOWED AND RAKED PRIOR TO TILLING AND TOPSOILING OPERATIONS. TILLAGE OF THE EXISTING VEGETATION INTO THE GROUND WILL NOT BE ACCEPTED.

3.3 TOPSOIL PLACEMENT

A. SPREADING:

1. TOPSOIL SHALL BE SPREAD EVENLY ON THE PREPARED AREAS TO A MINIMUM DEPTH OF 6 INCHES AFTER MACHINE COMPACTION. SPREADING SHALL NOT BE DONE WHEN THE GROUND OR TOPSOIL IS FROZEN OR EXCESSIVELY WET. AFTER SPREADING, ANY LARGE, STIFF CLOUDS OR HARD LUMPS SHALL BE BROKEN UP AND THE GROUND SHALL BE HAND OR MACHINE RAKED TO REMOVE ALL DEBRIS, STONES, AND FOREIGN MATTER LARGER THAN 1 INCH TO A DEPTH OF 4 INCHES.
- B. FINISH GRADING:
1. GRADE THE AREAS TO FINISH GRADES FILLING AS NEEDED OR REMOVING SURPLUS DIRT AND FLOATING AREAS TO A SMOOTH UNIFORM GRADE. ALL LAWN AREAS SHALL SLOPE TO DRAIN. WHERE NO GRADES ARE SHOWN, AREAS SHALL HAVE A SMOOTH AND CONTINUAL GRADE BETWEEN EXISTING OR FIXED CURBS (SUCH AS WALKS, CURBS, OR WALLS). RAKE AND LEVEL AS NECESSARY TO OBTAIN TRUE EVEN LAWN SURFACES. ALL FINISH GRADES SHALL MEET THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE SEED IS SOWN OR SOD IS PLACED.
- C. SEED BED PREPARATION:
1. AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDDED SHALL BE LOOSENEED TO PROVIDE A ROUGH, FIRM BUT FINELY PULVERIZED SEED BED. THE INTENT IS A TEXTURE CAPABLE OF RETAINING WATER, SEED, AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TIME TO GERMINATE. SEED SHALL BE APPLIED TO THE CONDITIONED SEED BED NOT MORE THAN 48 HOURS AFTER THE SEED BED HAS BEEN PREPARED.
2. IF THERE HAS BEEN A TIME LAPSE BETWEEN THE PLACEMENT OF TOPSOIL AND SEEDING OPERATIONS TO ALLOW IT TO BECOME SETTLED AND COMPACTED ON THE SURFACE, THE AREA TO BE PLANTED WITH SEED SHALL BE THOROUGHLY HARROWED, WORKED TO A DEPTH OF 4 INCHES SO AS TO PROVIDE A SURFACE OF SUCH CONDITION THAT IT WILL ALLOW HAND RAKING AND APPLICATION OF THE SEED IN COMPLIANCE WITH THESE SPECIFICATIONS.
- D. FERTILIZER/SOIL AMENDMENTS:
1. APPLICATION OF FERTILIZER WILL BE IN 2 STAGES. TWO WEEKS PRIOR TO APPLICATION OF SEED, FERTILIZER SHALL BE APPLIED AT THE RATE OF 3 LBS/1000 S.F. FOR TURF AREAS. FERTILIZER SHALL BE APPLIED BY BROADCASTING OR DRILL METHODS, IT SHALL BE APPLIED SEPARATELY FROM THE SEED AND MIXED INTO THE SOIL TO A MINIMUM DEPTH OF 2 INCHES AND MAY BE INCORPORATED AS PART OF THE TOPSOIL PLACEMENT AND SEED BED PREPARATION OPERATIONS. SPRINKLE IMMEDIATELY AFTER INITIAL APPLICATION OF THE FERTILIZER WITH A FINE SPRAY UNTIL GROUND IS THOROUGHLY SATURATED, WITH PARTICULAR CARE TO AVOID RUNOFF ON SLOPING AREAS.
2. THE 2ND APPLICATION WILL FOLLOW THE FOLLOWING SEQUENCE WITHIN THE SPECIFIED WARRANTY PERIOD AT A RATE DETERMINED BY SOIL TEST RESULTS FOR BOTH TURF AND NATIVE GRASS/ WILDFLOWER AREAS.
3. APPLICATION OF SUPERPHOSPHATE AND GROUND LIMESTONE SHALL BE APPLIED AT RATES DETERMINED BY SOILS TEST RESULTS.
- E. SEEDING:
1. IMMEDIATELY PRIOR TO THE APPLICATION OF THE SEED, THE SOIL SHALL BE LOOSE TO A DEPTH OF AT LEAST 1 INCH AND FREE FROM ALL MATERIAL AS SPECIFIED. IF SOIL IS TOO LOOSE OR DRY FOR GOOD HANDLING, IT SHOULD BE MOISTENED AND ROLLED LIGHTLY.
2. SEEDING SHALL BE DONE WITHIN THE SPECIFIED TIME PERIODS AND AT THE FOLLOWING RATES:
- a. FINE LAWN SEED SHALL BE SOWN AT A RATE OF 3.0 POUNDS PER 1000 SQUARE FEET AND SHALL BE PLANTED IN THE SPRING FROM APRIL 1ST TO MAY 30TH OR IN THE FALL FROM AUGUST 16TH TO OCTOBER 1ST.
- b. NATIVE SEED MIX SHALL BE SOWN AT A RATE OF 5.0 POUNDS PER 1000 SQUARE FEET AND SHALL BE PLANTED IN THE SPRING FROM APRIL 1ST TO MAY 30TH OR IN THE FALL FROM AUGUST 16TH TO OCTOBER 1ST.
- F. METHODS:
1. SEEDING BY DRILL IS PREFERABLE, HOWEVER, HYDRAULIC SEEDING OR BROADCASTING WILL BE PERMITTED. BROADCAST SEEDING AND HYDRAULIC SEEDING SHALL NOT BE USED DURING ADVERSE WEATHER.
2. AREAS SOWN BY HYDRAULIC OR BROADCAST METHODS WILL BE VISUALLY INSPECTED FOR UNIFORMITY OF APPLICATION. AREAS WHICH FAIL TO REVEAL AN AVERAGE OF TWO SEEDS PER SQUARE INCH WILL BE RESOWN AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. THE APPLIED SEED, REGARDLESS OF APPLICATION, SHALL NOT BE COVERED BY A SOIL THICKNESS NO GREATER THAN 1/2 INCH.
4. SEEDING BY DRILL:
- a. SEEDING EQUIPMENT USED FOR APPLYING GRASS SEED MUST BE DESIGNED, MODIFIED, OR EQUIPPED TO REGULATE THE APPLICATION RATE AND PLANTING DEPTH OF GRASS SEED. SEED MUST BE UNIFORMLY DISTRIBUTED IN THE DRILL HOPPER DURING THE DRILLING OPERATION. ALL GRASS ESTABLISHMENT EQUIPMENT SHALL BE OPERATED PERPENDICULAR TO THE SLOPE DRAINAGE. A DRILL SHALL BE NO WIDER THAN THE WIDTH OF THE AREA WHICH IT IS TO OPERATE. THE ROWS OF PLANTED SEEDS SHALL BE A MAXIMUM OF 8 INCHES APART AND SHALL BE AT RIGHT ANGLES TO THE FINISHED SLOPES.
5. BROADCAST SEEDING:
- a. WHEN SEED IS SOWN BY BROADCASTING, EXERCISE GREAT CARE THAT A UNIFORM DISTRIBUTION OF SEED IS OBTAINED. SEEDING SHALL BE DONE ON A STILL DAY USING A HOPPER TYPE SEEDER WITH ONE HALF OF THE SEED FOR EACH AREA BEING SOWN AT RIGHT ANGLES TO THE OTHER HALF. SEED DISTRIBUTION BY BROADCASTING SHALL BE COVERED WITH 1/4 TO 1/2 INCH OF SOIL. THE SEED MAY BE COVERED BY RAKING, DRAGGING, OR BY APPROPRIATE MECHANICAL MEANS.
6. HYDRAULIC SEEDING:
- a. WHEN HYDRAULIC SEED IS USED, SEED AND MULCH SHALL BE APPLIED IN SEPARATE AND DISTINCT OPERATIONS EXCEPT FOR THE FOLLOWING.
- THE CONTRACTOR MUST PROVIDE ONE POUND OF MULCH PER EACH THREE GALLONS OF WATER IN THE HYDROSEEDER AS A CUSHION AGAINST SEED DAMAGE. THE MULCH USED AS A CUSHION MAY BE PART OF THE TOTAL REQUIRED MULCH WITH THE REMAINDER APPLIED AFTER THE SEED IS METERING DURING APPLICATION.
 - THE CONTRACTOR MAY APPLY MULCH AND LAWN SEED MIX HYDRAULICALLY IN A SINGLE APPLICATION, PROVIDING ONE HALF OF THE SEED HAS BEEN SOWN BY BROADCAST OR DRILL METHODS AS AN INITIAL APPLICATION AND THE RATE OF APPLICATION OF LAWN SEED MIX INCREASED BY 4 POUNDS PER 1000 SQUARE FEET.
 - THE APPLICATION OF THE SEED SLURRY SHALL BE MADE WITH EQUIPMENT HAVING A BUILT-IN AGITATION SYSTEM AND OPERATING CAPACITY SUFFICIENT TO AGITATE, SUSPEND AND HOMOGENEOUSLY MIX A SLURRY CONTAINING WATER, SEED, AND MULCH OF SEED. THE SLURRY SHALL BE SPRAYED OVER THE SOIL IN A UNIFORM COAT. ALL HYDRAULICALLY SEED AREAS SHALL BE HYDROMULCHED UPON COMPLETION.

G. WATERING:

1. WATERING IMMEDIATELY AFTER SEEDING OR MULCHING WITH A FINE SPRAY TO A DEPTH OF 6 INCHES. AVOID RUNOFF ON SLOPING AREAS.

2. THE SURFACE LAYER OF THE SOIL MUST BE KEPT DAMP BY FREQUENT LIGHT WATERING DURING THE GERMINATION PERIOD AND UNTIL PLANTS ARE FIRMLY ROOTED.

H. PROTECTION:

1. PROTECT ALL SEEDDED AREAS BY ERECTING TEMPORARY FENCES, BARRIERS, SIGNS, ETC. AS NECESSARY TO PREVENT TRAMPLING. THEY SHALL REMAIN IN PLACE FOR AT LEAST SIX WEEKS UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE LANDSCAPE ARCHITECT.

I. MULCHING:

1. GENERAL

a. MULCH ALL HYDROSEEDDED AREAS, DRAINAGE SWALES, SLOPES 4:1 OR STEEPER, AND ANY AREAS WHERE LIKELY HAZARD OF EROSION EXISTS. TOPSOIL OR SEED WHICH WASHES OUT FOR REASONS ATTRIBUTABLE TO THE CONTRACTOR'S ACTIVITIES OR FAILURE TO TAKE PROPER PRECAUTIONS, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

b. ALL STRUCTURES SHALL BE PROTECTED FROM HYDRAULIC APPLICATION OF MULCH MATERIAL AND MATERIAL DEPOSITED ON FACILITIES SHALL BE REMOVED.

2. APPLICATION OF ORGANIC MULCH

a. WET APPLICATION: ORGANIC MULCH SHALL BE MIXED WITH WATER AT A RATE OF ONE POUND MULCH (DRY WEIGHT) TO ONE GALLON OF WATER HYDRAULICALLY APPLIED AS PER MANUFACTURERS RECOMMENDATIONS AT A MINIMUM RATE OF 2000 POUNDS PER ACRE.

b. DRY APPLICATION: ORGANIC MULCH SHALL BE BROADCAST AT A MINIMUM RATE OF 2000 POUNDS PER ACRE, AND SHALL BE ROLLED LIGHTLY TO SET FIRMLY INTO THE SOIL.

3. APPLICATION OF WOOD CELLULOSE FIBER MULCH

a. WOOD CELLULOSE FIBER MULCH SHALL BE APPLIED HYDRAULICALLY. IT SHALL BE MIXED WITH WATER AT THE RATE SPECIFIED BY THE MANUFACTURER AND SHALL BE MIXED IN STANDARD HYDRAULIC MULCHING EQUIPMENT TO FORM A HOMOGENEOUS SLURRY. THE SLURRY SHALL BE SPRAYED UNIFORMLY OVER THE SURFACE AT A MINIMUM RATE OF 1800 POUNDS PER ACRE.

4. APPLICATION OF VEGETABLE MULCH

a. MULCH SHALL BE APPLIED IN A UNIFORM MANNER WITH A MULCH SPREADER AT A MINIMUM RATE OF 1-1/2 TONS PER ACRE WHERE REQUIRED MULCH SHALL BE ANCHORED INTO THE SEED BED BY TUCKING OR APPLICATION OF A TACKIFYING AGENT.

5. ANCHORING MULCH

a. GENERAL: ANCHOR MULCH IN ALL AREAS SEEDDED WHICH ARE IN THE CONTRACTOR'S OPINION HIGHLY SUSCEPTIBLE TO EROSION.

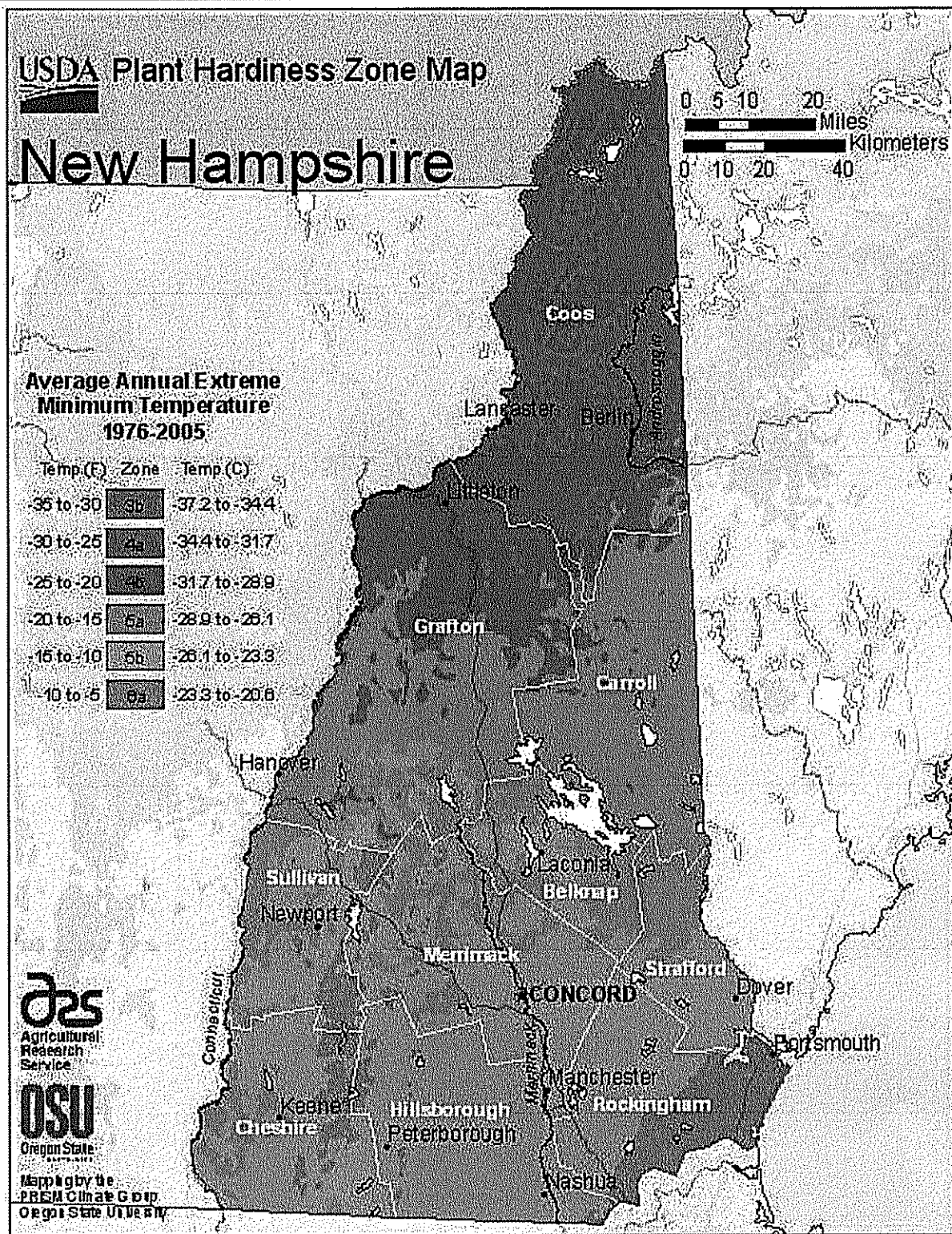
b. APPLICATION: MULCH TACKIFIERS SHALL BE MIXED WITH WATER AT A RATE SPECIFIED BY THE MANUFACTURER AND SHALL BE APPLIED AT A MINIMUM RATE OF 40 POUNDS PER ACRE.

6. 'CURLEX' EROSION CONTROL BLANKETS

a. GENERAL: FURNISH AND INSTALL 'CURLEX' BLANKETS TO SLOPES WHICH ARE IN THE CONTRACTOR'S OPINION HIGHLY SUSCEPTIBLE TO EROSION AND ITS OCCURRENCE CANNOT BE PREVENTED BY ANY OTHER MEANS.

b. APPLICATION: BLANKETS WILL BE APPLIED VERTICALLY TO THE SLOPE AND ATTACHED TO THE SLOPE WITH U-SHAPED METAL STAPLES, WITH LEGS 6" IN LENGTH AND 1" CROWN. SIZE, GAUGE AND NUMBER OF STAPLES WILL VARY WITH GROUND CONDITIONS, SLOPE, ETC.

USDA PLANT HARDINESS ZONE MAP



NH INVASIVE SPECIES WATCH LIST

NEW HAMPSHIRE INVASIVE SPECIES COMMITTEE - APPROVED BY THE ISC APRIL 11, 2018

THE NH INVASIVE PLANT SPECIES WATCH LIST IS A NON-REGULATORY REFERENCE TOOL THAT SERVES TO:

1. IDENTIFY POTENTIALLY INVASIVE NON-NATIVE PLANT SPECIES BASED ON DEGREE OF INVASIVE QUALITIES (E.G., AGGRESSIVE GROWTH, RAPID REPRODUCTION, AND/OR LACK OF NATURAL HERBIVORES)
2. INFORM PREVENTION (E.G., EARLY DETECTION/REPORT RESPONSE), MONITORING, AND MANAGEMENT DECISION-MAKING FOR SPECIES THAT MAY IMPACT NH'S ECOSYSTEMS OR ECONOMY
3. INCREASE AWARENESS OF INVASIVE PLANT SPECIES.

SCIENTIFIC NAME	SYNONYMS	COMMON NAME
ABUTILON THEOPHRASTI MEDIK.		VELVETLEAF INDIAN-MALLOW
ACER GINNALA MAXIM.		AMUR MAPLE
AGROSTEMMA GITHAGO L. VAR. GITHAGO	LYCHNIS GITHAGO (L.) SCOP.	COMMON CORNCOCKLE
AIRA CARYOPHYLLEA L.	ASPRIS CARYOPHYLLEA (L.) NASH	COMMON SILVER-HAIRGRASS
ALLIUM WNEALE L.		CROW GARLIC
AMORPHA FRUTICOSA L.	AMORPHA FRUTICOSA L. VAR. ANGUSTIFOLIA PURSH; A. FRUTICOSA L. VAR. OBLONGIFOLIA PALMER; A. FRUTICOSA L. VAR. TENNESSENSIS (SHUTTLW. EX KUNZE) PALMER	FALSE INDIGO-BUSH
ARALIA ELATA (MIQ.) SEEM.	DIMORPHANTHUS ELATUS MIQ.	JAPANESE ANGELICA-TREE
BARBAREA VULGARIS AIT. F.	BARBAREA ARCUATA (OPIZ EX J. & K. PRESL) REICHENB.; B. STRICTA, OF AUTHORS NOT ANDRZ.; B. VULGARIS VAR. ARCUATA (OPIZ EX J. & K. PRESL) FRIES; CAMPE BARBAREA (L.) W. WIGHT EX PIPER; C. STRICTA, OF AUTHORS NOT (ANDRZ.) W. WIGHT EX PIPER; ERYSIMUM BARBAREA L.	GARDEN YELLOW-ROCKET
BRASSICA JUNCEA (L.) CZERN.	BRASSICA JUNCEA (L.) CZERN. VAR. CRISPIFOLIA BAILEY; SINAPIS JUNCEA L.	CHINESE MUSTARD
BRASSICA NIGRA (L.) W.D.J. KOCH	SINAPIS NIGRA L.	BLACK MUSTARD
BROMUS TECTORUM L.	ANISANTHA TECTORUM (L.) NEVSKI	CHEAT BROME
CARDAMINE IMPATIENS L.		NARROW-LEAVED BITTER-CRESS
CENTAUREA JACEA L.	CENTAUREA DEBEAUXII GREIN. & GODR. SSP. THUILLIERI DOSTÁL; C. JACEA L. SSP. DECIPIENS (THUILL.) ČELÁK; C. JACEA L. SSP. PRATENSIS ČELÁK; C. PRATENSIS THUILL.; C. THUILLIERI (DOSTÁL) J. DUVERN. & LAMBINON; CYANUS JACEA (L.) P. GAERTN.; JACEA PRATENSIS LAM.	BROWN KNAPWEED
CENTAUREA NIGRA L.	JACEA NIGRA (L.) HILL	BLACK KNAPWEED
CHELODONIUM MAJUS L.	CHELODONIUM MAJUS L. VAR. LACINIATUM (P. MILL.) SYME; C. MAJUS L. VAR. PLENUM WEHRHANN	GREATER CELANDINE
CIRSIMUM PALUSTRE (L.) SCOP.	CARDUUS PALUSTRIS L.	MARSH THISTLE
CIRSIMUM VULGARE (SAV.) TEN.	CARDUUS LANCEOLATUS L.; C. VULGARIS SAVI; CIRSIMUM LANCEOLATUM (L.) SCOP.	COMMON THISTLE
CONVOLVULUS ARVENSIS L.	STROPHOCAULOS ARVENSIS (L.) SMALL	FIELD BINDWEED
CYTISUS SCOPARIUS (L.) LINK	SPARTIUM SCOPARIUM L.	SCOTCH BROOM
DIGITARIA SANGUINALIS (L.) SCOP.	PANICUM SANGUINALE L.	HAIRY CRABGRASS
EICHORNIA CRASSIPES (MART.) SOLMS-LAUBACH	EICHORNIA SPECIOSA KUNTH; PIAROPUS CRASSIPES (MART.) RAF.	COMMON WATER-HYACINTH
ELYMUS REPENS (L.) GOULD	AGROPYRON REPENS (L.) GOULD; ELYTRIGIA REPENS (L.) DESV. EX B.D. JACKSON; TRITICUM REPENS L.	CREEPING WILD-RYE
EPILOBIUM HIRSUTUM L.		HAIRY WILLOW-HERB
EPIPACTIS HELLEBORINE (L.) CRANTZ	EPIPACTIS LATIFOLIA (L.) ALL.; SERAPIAS HELLEBORINE L.	BROAD-LEAVED HELLEBORINE
EUONYMUS EUROPAEUS L.		EUROPEAN SPINDLE-TREE
EUONYMUS FORTUNEI (TURCZ.) HAND.-MAZZ	EUONYMUS FORTUNEI (TURCZ.) HAND.-MAZZ VAR. RADICANS (SIEB. EX MIQ.) REHD.; E. FORTUNEI (TURCZ.) HAND.-MAZZ VAR. VEGETUS (REHD.) REHD.; E. RADICANS SIEB. EX MIQ.; E. RADICANS SIEB. EX MIQ. VAR. VEGETUS REHD.	CLIMBING SPINDLE-TREE
FESTUCA FILIFORMIS POURRET	FESTUCA CAPILLATA LAM.; F. OVINA L. VAR. CAPILLATA (LAM.) ALEF.; F. TENUIFOLIA SIBTHORP	FINE-LEAVED SHEEP FESCUE
FICARIA VERNIA HUOS. SSP. FERTILIS (LAWALRÉE EX LAEGAARD) STACE	FICARIA VERNIA HUOS. SSP. BULBIFERA A. & D. LÖVE; RANUNCULUS FICARIA L. SSP. BULBIFER LAMBINON; R. FICARIA L. SSP. BULBIFERA (MARSDEN-JONES) LAWALRÉE, AN ILLEGITIMATE NAME; R. FICARIA VAR. BULBIFERA MARSDEN-JONES	FIG-CROWFOOT
FROELICHA GRACILIS (HOOK.) MOQ.	OPLOTHeca GRACILIS MOQ.	SLENDER COTTON-WEED
GALIUM MOLLUGO L.		WHORLED BEDSTRAW
GLECHOMA HEDERACEA L.	GLECHOMA HEDERACEA L. VAR. MICRANTHA MORIC; G. HEDERACEA L. VAR. PARVIFLORA (BENTH.) HOUSE; NEPETA HEDERACEA (L.) TREVISAN	GILL-OVER-THE-GROUND
HYLOTELEPHIUM TELEPHIUM (L.) H. CHBA	SEDUM PURPUREUM (L.) J.A. SCHULTES; S. PURPURASCENS W.D.J. KOCH; S. TELEPHIUM L.	PURPLE ORPINE
KOCHIA SCOPARIA (L.) SCHRAD.	BASSIA SCOPARIA (L.) A.J. SCOTT; CHENOPodium SCOPARIUM L.; KOCHIA SCOPARIA (L.) SCHRAD. VAR. PUBESCENS FENZL.; K. SCOPARIA (L.) SCHRAD. VAR. SUBVILLOSA MOQ.	SUMMER-CYPRESS
LAMIUM AMPLEXICAULE L. VAR. AMPLEXICAULE		COMMON HENBIT
LAMIUM PURPUREUM L.	LAMIUM DISSECTUM WITH.; L. HYBRIDUM, OF AUTHORS NOT VILL.	RED HENBIT
LONICERA XYLLOSTEUM L.		FLY HONEYSUCKLE
LUPINUS POLYPHYLLUS LINDL. VAR. POLYPHYLLUS	LUPINUS PALLIDIPES HELLER; L. POLYPHYLLUS LINDL. VAR. ALBIFLORUS L.H. BAILEY; L. POLYPHYLLUS LINDL. VAR. PALLIDIPES (HELLER) C.P. SM.	BLUE LUPINE
LYCHNIS FLOS-CUCULI (L.) SSP. FLOS-CUCULI	CORONARIA FLOS-CUCULI (L.) A. BRAUN; SILENE FLOS-CUCULI (L.) CLAIRVILLE	RAGGED ROBIN LYCHNIS
LYSIMACHIA ARVENSIS (L.) U. MANNIS & A. ANDER.	ANAGALLIS ARVENSIS L.; A. ARVENSIS L. VAR. CAERULEA (SCHREB.) GREIN. & GODR.; A. CAERULEA SCHREB.	SCARLET PIMPERNEL
LYSIMACHIA VULGARIS L.		GARDEN YELLOW-LOOSESTRIPE
MISCANTHUS SINENSIS ANDERSS.	MISCANTHUS SINENSIS ANDERSS. VAR. GRACILISSIMUS A.S. HITCHC.	CHINESE SILVERGRASS
MYCELIS MURALIS (L.) DUMORT.	LACTUCA MURALIS (L.) FRESEN.	WALL-LETTUCE
MYOSOTIS SCORPIOIDES L.	MYOSOTIS PALUSTRIS (L.) HILL	WATER FORGET-ME-NOT
NASTURTIIUM MICROPHYLLUM BOENN. EX REICHENB.	NASTURTIIUM OFFICINALE AIT. F. VAR. MICROPHYLLUM (BOENN. EX REICHENB.) THELLUNG; RORIPPA MICROPHYLLA (BOENN. EX REICHENB.) HYL. EX A. & D. LÖVE	ONE-ROWED WATER-CRESS
NASTURTIIUM OFFICINALE AIT. F.	BAEUMERTA NASTURTIIUM-AQUATICUM (L.) HAYEK; RORIPPA NASTURTIIUM AQUATICUM (L.) HAYEK; SISYMBRIUM NASTURTIIUM-AQUATICUM L.	TWO-ROWED WATER-CRESS
OENANTHE JAVANICA (BLUME) DC		JAVA WATER DROPPORT
PERSICARIA LONGISETA (BRUNJUN) KITAGAWA	PERSICARIA CAESPITOSA (BLUME) NAKAI VAR. LONGISETA (BRUNJUN) REED; POLYGONUM CAESPITOSUM BLUME VAR. LONGISETUM (BRUNJUN) STEWARD; P. LONGISETUM BRUNJUN	ORIENTAL LADY'S-THUMB SMARTWEED
PHELLODENDRON AMURENSE RUPE.	PHELLODENDRON AMURENSE RUPE. VAR. SACHALINENSE F. SCHMIDT; P. JAPONICUM MAXIM.; P. SACHALINENSE (F. SCHMIDT) SARG.	AMUR CORKTREE
POA COMPRESSA L.		FLAT-STEMMED BLUE GRASS
POA MEMORIALIS L.		WOOD BLUE GRASS
POPULUS ALBA L.	POPULUS ALBA L. VAR. BOULEANA LAUCHE	WHITE POPLAR
RANUNCULUS REPENS L.	RANUNCULUS REPENS L. VAR. DEGENERATES SCHUR; R. REPENS L. VAR. ERECTUS DC.; R. REPENS L. VAR. GLABRATUS DC.; R. REPENS L. VAR. PLENIFLORUS FERN.; R. REPENS L. VAR. VILLOSIUS LAMOTTE	SPOT-LEAVED CROWFOOT
RAFFANUM RAFFANISTRUM L. SSP. RAFFANISTRUM		WILD RADISH
RHINANTHUS MINOR L. SSP. MINOR	RHINANTHUS CRISTA-GALLI L., IN PART; R. CRISTA-GALLI L. VAR. FALLAX (WIMMER & GRAB.) DRUCE; R. STENOPHYLLUS (SCHUR) SCHINZ & THELLUNG	LITTLE YELLOW-RATTLE
RUMEX ACETOSELLA L. SSP. PYRENAICUS (POURRET EX LAPEYR.) AKEROYD	ACETOSELLA VULGARIS (KUCH) FOURR. SSP. PYRENAICA (POURRET EX LAPEYR.) A. LÖVE; RUMEX ACETOSELLA L. VAR. PYRENAICUS (POURRET EX LAPEYR.) TIMBAL-LAGRAVE; R. PYRENAICUS POURRET EX LAPEYR.	SHEEP DOCK
SECURIGERA VARIA (L.) LASSEN	CORONILLA VARIA L.	PURPLE CROWN-VETCH
SILPHIUM PERFOOLIATUM L.		CLIP-PLANT ROSINWEED
SINAPIS ARVENSIS L.	BRASSICA ARVENSIS RABENH.; B. KABER (DC.) L.C. WHEELER; B. KABER (DC.) L.C. WHEELER VAR. PINNATIFIDA (STOKES) L.C. WHEELER	CORN CHARLOCK
SOLANUM CAROLINENSE L. VAR. CAROLINENSE		CAROLINA NIGHTSHADE
SOLANUM DULCAMARA L.		CLIMBING NIGHTSHADE
SONCHUS ARVENSIS L.	SONCHUS ARVENSIS L. SSP. ULIGINOSUS (BIEB.) NYMAN; S. ULIGINOSUS BIEB.	FIELD SOW-THISTLE
SORBARIA SORBIIFOLIA (L.) A. BRAUN	SCHIZONOTUS SORBIIFOLIUS (L.) LINDL.; SPIRAEA SORBIIFOLIA L.	FALSE SPIRAEA
TANACETUM VULGARE L.	CHRYSANTHEMUM ULIGINOSUM PERS.; C. VULGARE (L.) BERNH.	COMMON TANSY
TUSSILAGO FARFARA L.		COLTSFOOT
TYPHA «GLAUCA GODR.		HYBRID CATTAIL
VALERIANA OFFICINALIS L.		COMMON VALERIAN
VINCA MINOR L.		LESSER PERIWINKLE

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LANDSCAPE

WARRENSTREET ARCHITECTS
4 CRESCENT STREET UNIT 2
CON

PROJECT: 2025-08-15 NHSCOT LANDSCAPES (10 Drawing Files) 2025-08-15 NHSCOT CULTURAL CENTER LA-14

TEMPLATE DATE: 11/25/2019

LANDSCAPE GENERAL SPECIFICATIONS

SECTION 32 84 00 - PLANTING IRRIGATION
PART 1 - GENERAL
1.1 SUMMARY
A. THE INTENT IS THAT THE LANDSCAPE IRRIGATION SYSTEM SHALL BE DESIGN-BUILT AND THAT ALL LAWN AND PLANTING AREAS FOR THIS PROJECT RECEIVE FULL COVERAGE OF THE IRRIGATION SYSTEM.
B. SECTION INCLUDES:
1. PIPES, TUBES, AND FITTINGS.
2. MANUAL VALVES.
3. AUTOMATIC CONTROL VALVES.
4. AUTOMATIC DRAIN VALVES.
5. SPRINKLERS.
6. QUICK COUPLERS.
7. CONTROLLERS.
8. BOXES FOR AUTOMATIC CONTROL VALVES.
1.2 ACTION SUBMITTALS
A. PRODUCT DATA:
1. PIPES, TUBES, AND FITTINGS.
2. MANUAL VALVES.
3. AUTOMATIC CONTROL VALVES.
4. AUTOMATIC DRAIN VALVES.
5. SPRINKLERS.
6. QUICK COUPLERS.
7. CONTROLLERS.
8. BOXES FOR AUTOMATIC CONTROL VALVES.
9. INCLUDE RATED CAPACITIES, OPERATING CHARACTERISTICS, ELECTRICAL CHARACTERISTICS, AND FURNISHED SPECIALTIES AND ACCESSORIES.
B. WIRING DIAGRAMS: FOR POWER, SIGNAL, AND CONTROL WIRING.
C. DELEGATED DESIGN SUBMITTAL: FOR IRRIGATION SYSTEMS ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
1.3 INFORMATIONAL SUBMITTALS
A. COORDINATION DRAWINGS: IRRIGATION SYSTEMS, DRAWN TO SCALE, ON WHICH COMPONENTS ARE INDICATED AND COORDINATED WITH EACH OTHER, USING INPUT FROM INSTALLERS OF THE ITEMS INVOLVED. ALSO INCLUDE ADJUSTMENTS NECESSARY TO AVOID PLANTINGS AND OBSTRUCTIONS, SUCH AS SIGNS AND LIGHT STANDARDS.
B. ZONING CHART: INDICATE EACH IRRIGATION ZONE AND ITS CONTROL VALVE.
C. CONTROLLER TIMING SCHEDULE: INDICATE TIMING SETTINGS FOR EACH AUTOMATIC CONTROLLER ZONE.
D. FIELD QUALITY CONTROL SUBMITTALS:
1. FIELD QUALITY CONTROL REPORTS.
1.4 CLOSEOUT SUBMITTALS
A. OPERATION AND MAINTENANCE DATA.
1.5 QUALITY ASSURANCE
A. QUALIFICATIONS:
1. INSTALLERS: ENTITY THAT EMPLOYS A CERTIFIED IRRIGATION DESIGNER - LANDSCAPE QUALIFIED BY THE IRRIGATION ASSOCIATION.
B. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. IRRIGATION ZONE CONTROL: AUTOMATIC OPERATION WITH CONTROLLER AND AUTOMATIC CONTROL VALVES.
B. LOCATION OF SPRINKLERS AND SPECIALTIES: DESIGN LOCATION IS APPROXIMATE. MAKE MINOR ADJUSTMENTS NECESSARY TO AVOID PLANTINGS AND OBSTRUCTIONS, SUCH AS SIGNS AND LIGHT STANDARDS. MAINTAIN 100 PERCENT IRRIGATION COVERAGE OF ALL LAWN AND PLANTING AREAS INDICATED.
C. DELEGATED DESIGN: DESIGN 100 PERCENT COVERAGE IRRIGATION SYSTEM, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA TO BE DETERMINED BASED UPON FINAL SITE DISTURBANCE.
1. AVAILABLE LAND RECORDS INDICATE THE FOLLOWING SOIL CONDITIONS: 1B0
D. MINIMUM WORKING PRESSURES: THE FOLLOWING ARE MINIMUM PRESSURE REQUIREMENTS FOR PIPING, VALVES, AND SPECIALTIES UNLESS OTHERWISE INDICATED:
1. IRRIGATION MAIN PIPING: 200 PSIG.
2. CIRCUIT PIPING: 150 PSIG.
2.2 PIPES, TUBES, AND FITTINGS
A. COMPLY WITH REQUIREMENTS IN "PIPING SCHEDULE" ARTICLE FOR APPLICATIONS OF PIPE, TUBE, AND FITTING MATERIALS, AND FOR JOINING METHODS FOR SPECIFIC SERVICES, SERVICE LOCATIONS, AND PIPE SIZES.
B. PE PIPE WITH CONTROLLED ID: ASTM D2239, PE 3408 COMPOUND; SDR 15.
1. INSERT FITTINGS FOR PE PIPE: ASTM D2609, NYLON OR POLYPROPYLENE PLASTIC WITH BARBED ENDS. INCLUDE BANDS OR OTHER FASTENERS.
C. PVC PIPE: ASTM D1785, PVC 1120 COMPOUND, SCHEDULES 40 AND 80.
1. PVC SOCKET FITTINGS: ASTM D2468, SCHEDULES 40 AND 80.
2. PVC THREADED FITTINGS: ASTM D2464, SCHEDULE 80.
3. PVC SOCKET UNIONS: CONSTRUCTION SIMILAR TO THAT OF MSS SP-107, EXCEPT BOTH HEADPIECE AND TAILPIECE SHALL BE PVC WITH SOCKET ENDS.
D. PVC PIPE, PRESSURE RATED: ASTM D2241, PVC 1120 COMPOUND, SDR 26.
1. PVC SOCKET FITTINGS: ASTM D2467, SCHEDULE 80.
2. PVC SOCKET UNIONS: CONSTRUCTION SIMILAR TO THAT OF MSS SP-107, EXCEPT BOTH HEADPIECE AND TAILPIECE SHALL BE PVC WITH SOCKET OR THREADED ENDS.
2.3 PIPING JOINING MATERIALS
A. PIPE-FLANGE GASKET MATERIALS: AWWA C110, RUBBER, FLAT FACE, 1/8 INCH THICK UNLESS OTHERWISE INDICATED; FULL-FACE OR RING TYPE UNLESS OTHERWISE INDICATED.
B. METAL, PIPE-FLANGE BOLTS AND NUTS: ASME B18.2.1, CARBON STEEL UNLESS OTHERWISE INDICATED.
C. BRAZING FILLER METALS: AWS A5.6/A5.6M, BCUP SERIES, COPPER-PHOSPHORUS ALLOYS FOR GENERAL DUTY BRAZING UNLESS OTHERWISE INDICATED.
D. SOLDER FILLER METALS: ASTM B32, LEAD-FREE SOLDER ALLOYS. INCLUDE WATER-FLUSHABLE IN ACCORDANCE WITH ASTM B813.
E. SOLVENT CEMENTS FOR JOINING PVC PIPING: ASTM D2654, INCLUDE PRIMER IN ACCORDANCE WITH ASTM F886.
F. PLASTIC, PIPE-FLANGE GASKET, BOLTS, AND NUTS: TYPE AND MATERIAL RECOMMENDED BY PIPING SYSTEM MANUFACTURER UNLESS OTHERWISE INDICATED.
2.4 MANUAL VALVES
A. CURB VALVES:
1. DESCRIPTION:
A. STANDARD: AWWA C800.
B. NPS 1 AND SMALLER PRESSURE RATING: 150 PSIG.
C. NPS 1-1/4 TO NPS 2 PRESSURE RATING: 150 PSIG.
D. BODY MATERIAL: BRASS OR BRONZE WITH BALL OR GROUND-KEY PLUG.
E. END CONNECTIONS: MATCHING PIPING.
F. STEM WITH WIDE-TEE HEAD.
B. CURB-VALVE CASING:
1. STANDARD: SIMILAR TO AWWA M44 FOR CAST-IRON VALVE CASINGS.
2. TOP SECTION: TELESCOPING, OF LENGTH REQUIRED FOR DEPTH OF BURIAL OF CURB VALVE.
3. BARREL: APPROXIMATELY 3-INCH DIAMETER.
4. PLUG: WITH LETTERING "WATER".
5. BOTTOM SECTION: WITH BASE OF SIZE TO FIT OVER VALVE.
6. BASE SUPPORT: CONCRETE COLLAR.
C. SHUTOFF RODS FOR CURB-VALVE CASINGS: FURNISH TWO STEEL, TEE-HANDLE SHUTOFF ROD(S) WITH ONE POINTED END, STEM OF LENGTH TO OPERATE DEEPEST BURIED VALVE, AND SLOTTED END MATCHING CURB VALVE FOR PROJECT.
D. BRASS BALL VALVES:
1. DESCRIPTION:
A. STANDARD: MSS SP-110.
B. SWP RATING: 150 PSIG.
C. CWP RATING: 600 PSIG.
D. BODY DESIGN: TWO PIECE.
E. BODY MATERIAL: FORGED BRASS.
F. ENDS: THREADED OR SOLDER JOINT IF INDICATED.
G. SEATS: PTFE OR TFE.
H. STEM: BRASS.
I. BALL: CHROME-PLATED BRASS.
J. PORT: FULL.
E. BRONZE BALL VALVES:
1. DESCRIPTION:
A. STANDARD: MSS SP-110.
B. SWP RATING: 150 PSIG.
C. CWP RATING: 600 PSIG.
D. BODY DESIGN: TWO PIECE.
E. BODY MATERIAL: BRONZE.
F. ENDS: THREADED OR SOLDER JOINT IF INDICATED.
G. SEATS: PTFE OR TFE.
H. STEM: BRONZE.
I. BALL: CHROME-PLATED BRASS.
J. PORT: FULL.
F. IRON BALL VALVES:
1. DESCRIPTION:
A. STANDARD: MSS SP-72.
B. CWP RATING: 200 PSIG.
C. BODY DESIGN: SPLIT BODY.
D. BODY MATERIAL: ASTM A126, GRAY IRON.
E. ENDS: FLANGED.
F. SEATS: PTFE OR TFE.
G. STEM: STAINLESS STEEL.
H. BALL: STAINLESS STEEL.
I. PORT: FULL.
G. PLASTIC BALL VALVES:
1. DESCRIPTION:
A. STANDARD: MSS SP-122.
B. PRESSURE RATING: 150 PSIG.
C. BODY MATERIAL: PVC.
D. TYPE: UNION.
E. END CONNECTIONS: SOCKET OR THREADED.
F. PORT: FULL.
H. IRON GATE VALVES, RESILIENT SEATED:
1. DESCRIPTION:
A. STANDARD: AWWA C509.
B. PRESSURE RATING: 200 PSIG MINIMUM.
C. BODY MATERIAL: DUCTILE OR GRAY IRON WITH BRONZE TRIM.
D. END CONNECTIONS: MECHANICAL JOINT OR PUSH-ON JOINT.
E. INTERIOR COATINGS: COMPLY WITH AWWA C550.
F. BODY DESIGN: NONRISING STEM.
G. OPERATOR: STEM NUT.
H. DISC: SOLID WEDGE WITH RESILIENT COATING.

I. IRON GATE VALVE CASINGS:
1. STANDARD: AWWA M44 FOR CAST-IRON VALVE CASINGS.
2. TOP SECTION: ADJUSTABLE EXTENSION OF LENGTH REQUIRED FOR DEPTH OF BURIAL OF VALVE.
3. BARREL: APPROXIMATELY 5-INCH DIAMETER.
4. PLUG: WITH LETTERING "WATER".
5. BOTTOM SECTION: WITH BASE OF SIZE TO FIT OVER VALVE.
6. BASE SUPPORT: CONCRETE COLLAR.
J. OPERATING WRENCHES FOR IRON GATE VALVE CASINGS: FURNISH TWO STEEL, TEE-HANDLE OPERATING WRENCH(ES) WITH ONE POINTED END, STEM OF LENGTH TO OPERATE DEEPEST BURIED VALVE, AND SOCKET MATCHING VALVE OPERATING NUT FOR PROJECT.
2.5 AUTOMATIC CONTROL VALVES
A. BRONZE, AUTOMATIC CONTROL VALVES:
1. DESCRIPTION: CAST-BRONZE BODY, NORMALLY CLOSED, DIAPHRAGM TYPE WITH MANUAL-FLOW ADJUSTMENT, AND OPERATED BY 24 V AC SOLENOID.
B. PLASTIC, AUTOMATIC CONTROL VALVES:
1. DESCRIPTION: MOLDED-PLASTIC BODY, NORMALLY CLOSED, DIAPHRAGM TYPE WITH MANUAL-FLOW ADJUSTMENT, AND OPERATED BY 24 V AC SOLENOID.
2.6 AUTOMATIC DRAIN VALVES
A. DESCRIPTION: SPRING-LOADED-BALL TYPE OF CORROSION-RESISTANT CONSTRUCTION AND DESIGNED TO OPEN FOR DRAINAGE IF LINE PRESSURE DROPS BELOW 2-1/2 TO 3 PSIG.
2.7 SPRINKLERS
A. GENERAL REQUIREMENTS: DESIGNED FOR UNIFORM COVERAGE OVER ENTIRE SPRAY AREA INDICATED AT AVAILABLE WATER PRESSURE.
1. DESCRIPTION:
A. CONSTRUCTION: ABS AND CORROSION-RESISTANT METALS.
B. MOUNTING: ABOVEGROUND, EXPOSED ON RISER.
2. CAPACITIES AND CHARACTERISTICS:
A. FLOW: 150 GPM.
B. ARC: FULL OR HALF CIRCLE.
C. RADIUS: 20 FEET.
D. INLET: NPS 3/4.
C. PLASTIC, POP-UP, GEAR-DRIVE ROTARY SPRINKLERS:
1. DESCRIPTION:
A. BODY MATERIAL: ABS.
B. NOZZLE: ABS.
C. RETRACTION SPRING: STAINLESS STEEL.
D. INTERNAL PARTS: CORROSION RESISTANT.
2. CAPACITIES AND CHARACTERISTICS:
A. FLOW: 150 GPM.
B. POP-UP HEIGHT: 4 INCHES ABOVEGROUND TO NOZZLE.
C. ARC: FULL OR HALF CIRCLE.
D. RADIUS: 20 FEET.
E. INLET: NPS 3/4.
D. PLASTIC, POP-UP, IMPACT-DRIVE ROTARY SPRINKLERS:
1. DESCRIPTION:
A. CASE: ABS.
B. POP-UP HEIGHT: 4 INCHES ABOVEGROUND TO NOZZLE.
C. SPRINKLER CONSTRUCTION: ABS AND OTHER CORROSION-RESISTANT METALS.
2. CAPACITIES AND CHARACTERISTICS:
A. NOZZLE: BRASS.
B. FLOW: 150 GPM.
C. ARC: FULL OR HALF CIRCLE.
D. RADIUS: 20 FEET.
E. INLET: NPS 3/4.
E. PLASTIC, SURFACE SPRAY SPRINKLERS:
1. DESCRIPTION:
A. BODY MATERIAL AND FLANGE: ABS.
B. PATTERN: FIXED, WITH FLOW ADJUSTMENT.
2. CAPACITIES AND CHARACTERISTICS:
A. NOZZLE: BRASS.
B. FLOW: 150 GPM.
C. ARC: FULL OR HALF CIRCLE.
D. RADIUS: 20 FEET.
F. PLASTIC, SURFACE, POP-UP SPRAY SPRINKLERS:
1. DESCRIPTION:
A. BODY MATERIAL AND FLANGE: ABS.
B. PATTERN: FIXED, WITH FLOW ADJUSTMENT.
2. CAPACITIES AND CHARACTERISTICS:
A. POP-UP HEIGHT: 4 INCHES ABOVEGROUND TO NOZZLE.
B. NOZZLE: BRASS.
C. FLOW: 150 GPM.
D. ARC: FULL OR HALF CIRCLE.
E. RADIUS: 20 FEET.
F. INLET: NPS 3/4.
G. PLASTIC, POP-UP SPRAY SPRINKLERS:
1. DESCRIPTION:
A. BODY MATERIAL: ABS.
B. NOZZLE: BRASS.
C. RETRACTION SPRING: STAINLESS STEEL.
D. INTERNAL PARTS: CORROSION RESISTANT.
E. PATTERN: FIXED, WITH FLOW ADJUSTMENT.
2. CAPACITIES AND CHARACTERISTICS:
A. NOZZLE: BRASS.
B. FLOW: 150 GPM.
C. POP-UP HEIGHT: 4 INCHES ABOVEGROUND TO NOZZLE.
D. ARC: FULL OR HALF CIRCLE.
E. RADIUS: 20 FEET.
F. INLET: NPS 3/4.
H. PLASTIC SHRUB SPRINKLERS:
1. DESCRIPTION:
A. BODY MATERIAL: ABS OR OTHER PLASTIC.
B. PATTERN: FIXED, WITH FLOW ADJUSTMENT.
2. CAPACITIES AND CHARACTERISTICS:
A. FLOW: 150 GPM.
B. ARC: HALF CIRCLE.
C. RADIUS: 10 FEET.
D. MOUNTING HEIGHT: 4 INCHES ABOVEGROUND TO NOZZLE.
E. INLET: NPS 3/4.
2.8 QUICK COUPLERS
A. DESCRIPTION: FACTORY-FABRICATED, BRONZE OR BRASS, TWO-PIECE ASSEMBLY. INCLUDE COUPLER WATER-SEAL VALVE; REMOVABLE UPPER BODY WITH SPRING-LOADED OR WEIGHTED, RUBBER-COVERED CAP; HOSE SWIVEL WITH ASME B1.20.7, 3/4-11.5NH THREADS FOR GARDEN HOSE ON OUTLET; AND OPERATING KEY.
1. LOCKING-TOP OPTION: VANDAL-RESISTANT LOCKING FEATURE. INCLUDE (2) TWO MATCHING KEYS).
2.9 CONTROLLERS
A. DESCRIPTION:
1. CONTROLLER STATIONS FOR AUTOMATIC CONTROL VALVES: EACH STATION IS VARIABLE FROM APPROXIMATELY 5 TO 60 MINUTES. INCLUDE SWITCH FOR MANUAL OR AUTOMATIC OPERATION OF EACH STATION.
2. EXTERIOR CONTROL ENCLOSURES: NEMA 250, TYPE 4, WEATHERPROOF, WITH LOCKING COVER AND TWO MATCHING KEYS; INCLUDE PROVISION FOR GROUNDING.
A. BODY MATERIAL: MOLDED PLASTIC.
B. MOUNTING: SURFACE TYPE FOR WALL.
3. INTERIOR CONTROL ENCLOSURES: NEMA 250, TYPE 12, DRIIPROOF, WITH LOCKING COVER AND TWO MATCHING KEYS.
A. BODY MATERIAL: MOLDED PLASTIC.
B. MOUNTING: SURFACE TYPE FOR WALL.
4. CONTROL TRANSFORMER: 24 V SECONDARY, WITH PRIMARY FUSE.
5. TIMING DEVICE: ADJUSTABLE, 24-HOUR, 14-DAY CLOCK, WITH AUTOMATIC OPERATIONS TO SKIP OPERATION ANY DAY IN TIMER PERIOD, TO OPERATE EVERY OTHER DAY, OR TO OPERATE TWO OR MORE TIMES DAILY.
A. MANUAL OR SEMIAUTOMATIC OPERATION: ALLOWS THIS MODE WITHOUT DISTURBING PRESET AUTOMATIC OPERATION.
B. NICKEL-CADMIUM BATTERY AND TRICKLE CHARGER: AUTOMATICALLY POWERS TIMING DEVICE DURING POWER OUTAGES.
C. SURGE PROTECTIVE METAL-OXIDE-VARISTOR TYPE ON EACH STATION AND PRIMARY POWER.
6. MOISTURE SENSOR: ADJUSTABLE FROM ONE TO SEVEN DAYS, TO SHUT OFF WATER FLOW DURING RAIN.
7. SMART CONTROLLERS: USE ET, TESTED IN ACCORDANCE WITH IA WAT CLIMATOLOGICAL BASED CONTROLLERS 8TH DRAFT TESTING PROTOCOL AND COMPLIANT WITH ASHRAE 189.1.
8. WIRING: UL 483, TYPE UF MULTICONDUCTOR, WITH SOLID-COPPER CONDUCTORS; INSULATED CABLE; SUITABLE FOR DIRECT BURIAL.
A. FEEDER-CIRCUIT CABLES: NO. 12 AWG MINIMUM, BETWEEN BUILDING AND CONTROLLERS.
B. LOW-VOLTAGE, BRANCH-CIRCUIT CABLES: NO. 14 AWG MINIMUM, BETWEEN CONTROLLERS AND AUTOMATIC CONTROL VALVES; COLOR-CODED DIFFERENT FROM FEEDER-CIRCUIT CABLE JACKET COLOR; WITH JACKETS OF DIFFERENT COLORS FOR MULTIPLE-CABLE INSTALLATION IN SAME TRENCH.
C. SPLICING MATERIALS: MANUFACTURER'S PACKAGED KIT CONSISTING OF INSULATING, SPRING-TYPE CONNECTOR OR CRIMPED JOINT AND EPOXY RESIN MOISTURE SEAL; SUITABLE FOR DIRECT BURIAL.
9. CONCRETE BASE: REINFORCED PRECAST CONCRETE NOT LESS THAN 36 BY 24 BY 4 INCHES THICK, AND 6 INCHES GREATER IN EACH DIRECTION THAN OVERALL DIMENSIONS OF CONTROLLER. INCLUDE OPENING FOR WIRING.
2.10 BOXES FOR AUTOMATIC CONTROL VALVES
A. PLASTIC BOXES:
1. DESCRIPTION: BOX AND COVER, WITH OPEN BOTTOM AND OPENINGS FOR PIPING; DESIGNED FOR INSTALLING FLUSH WITH GRADE.
A. SIZE: AS REQUIRED FOR VALVES AND SERVICE.
B. SHAPE: SQUARE.
C. SIDEWALL MATERIAL: ABS.
D. COVER MATERIAL: ABS.
2. LETTERING: "IRRIGATION"
B. DRAINAGE BACKFILL: CLEANED GRAVEL OR CRUSHED STONE, GRADED FROM 3/4 INCH MINIMUM TO 3 INCHES MAXIMUM.

PART 3 - EXECUTION
3.1 EARTHWORK
A. EXCAVATING, TRENCHING, AND BACKFILLING ARE SPECIFIED IN SECTION 31 20 00 "EARTH MOVING."
B. INSTALL WARNING TAPE DIRECTLY ABOVE PRESSURE PIPING, 12 INCHES BELOW FINISHED GRADES, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENT AND SLABS.
C. DRAM POCKETS: EXCAVATE TO SIZES INDICATED; BACKFILL WITH CLEANED GRAVEL OR CRUSHED STONE, GRADED FROM 3/4 TO 3 INCHES TO 1/2 INCHES BELOW GRADE. COVER GRAVEL OR CRUSHED STONE WITH SHEET OF ASPHALT-SATURATED FELT AND BACKFILL REMAINDER WITH EXCAVATED MATERIAL.
D. PROVIDE MINIMUM COVER OVER TOP OF UNDERGROUND PIPING ACCORDING TO THE FOLLOWING:
1. IRRIGATION MAIN PIPING: MINIMUM DEPTH OF 48 INCHES BELOW FINISHED GRADE, OR NOT LESS THAN 18 INCHES BELOW AVERAGE LOCAL FROST DEPTH, WHICHEVER IS DEEPER.
2. CIRCUIT PIPING: 12 INCHES
3. DRAIN PIPING: 12 INCHES
4. SLEEVES: 24 INCHES
3.2 INSTALLATION OF PIPING
A. LOCATION AND ARRANGEMENT: DRAWINGS INDICATE LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. INSTALL PIPING AS INDICATED UNLESS DEVIATIONS ARE APPROVED ON COORDINATION DRAWINGS.
B. INSTALL PIPING AT MINIMUM UNIFORM SLOPE OF 0.5 PERCENT DOWN TO TOWARD DRAIN VALVES.
C. INSTALL PIPING FREE OF SAGS AND BENDS.
D. INSTALL GROUPS OF PIPES PARALLEL TO EACH OTHER, SPACED TO PERMIT VALVE SERVICING.
E. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.
F. INSTALL UNIONS ADJACENT TO VALVES AND TO FINAL CONNECTIONS TO OTHER COMPONENTS WITH NPS 2 OR SMALLER PIPE CONNECTION.
G. INSTALL FLANGES ADJACENT TO VALVES AND TO FINAL CONNECTIONS TO OTHER COMPONENTS WITH NPS 2-1/2 OR LARGER PIPE CONNECTION.
H. INSTALL UNDERGROUND THERMOPLASTIC PIPING IN ACCORDANCE WITH ASTM D2774.
I. INSTALL EXPANSION LOOPS IN CONTROL VALVE BOXES FOR PLASTIC PIPING.
1. LAY PIPING ON SOLID SUBBASE, UNIFORMLY SLOPED WITHOUT HUMPS OR DEPRESSIONS.
K. INSTALL DUCTILE-IRON PIPING IN ACCORDANCE WITH AWWA C800.
L. INSTALL PVC PIPING IN DRY WEATHER WHEN TEMPERATURE IS ABOVE 40 DEG F. ALLOW JOINTS TO CURE AT LEAST 24 HOURS AT TEMPERATURES ABOVE 40 DEG F BEFORE TESTING.
3.3 JOINT CONSTRUCTION
A. REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS. BEVEL PLAN ENDS OF STEEL PIPE.
B. REMOVE SCALE, SLAG, DIRT, AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPE AND FITTINGS BEFORE ASSEMBLY.
C. THREADED JOINTS: THREAD PIPE WITH TAPERED PIPE THREADS IN ACCORDANCE WITH ASME B1.20.1. CUT THREADS FULL AND CLEAN USING SHARP DIES. REAM THREADED PIPE ENDS TO REMOVE BURRS AND RESTORE FULL ID. JOIN PIPE FITTINGS AND VALVES AS FOLLOWS:
1. APPLY APPROPRIATE TAPE OR THREAD COMPOUND TO EXTERNAL PIPE THREADS UNLESS DRY SEAL THREADING IS SPECIFIED.
2. DAMAGED THREADS: DO NOT USE PIPE OR PIPE FITTINGS WITH THREADS THAT ARE CORRODED OR DAMAGED. DO NOT USE PIPE SECTIONS THAT HAVE CRACKED OR OPEN WELDS.
D. FLANGED JOINTS: USE RUBBER GASKET MATERIAL OF SIZE, TYPE, AND THICKNESS FOR SERVICE APPLICATION. INSTALL GASKET CONCENTRICALLY POSITIONED. USE SUITABLE LUBRICANTS ON BOLT THREADS.
E. DUCTILE-IRON PIPING GASKETED JOINTS: COMPLY WITH AWWA C800 AND AWWA M41.
F. COPPER-TUBING BRAZED JOINTS: CONSTRUCT JOINTS IN ACCORDANCE WITH CDAS "COPPER TUBE HANDBOOK," USING COPPER-PHOSPHORUS BRAZING FILLER METAL.
G. COPPER-TUBING SOLDERED JOINTS: APPLY ASTM B813 WATER-FLUSHABLE FLUX TO TUBE END UNLESS OTHERWISE INDICATED. CONSTRUCT JOINTS IN ACCORDANCE WITH ASTM B828 OR CDAS "COPPER TUBE HANDBOOK," USING LEAD-FREE SOLDER ALLOY (0.20 PERCENT MAXIMUM LEAD CONTENT) COMPLYING WITH ASTM B32.
H. PE PIPING FASTENER JOINTS: JOIN WITH INSERT FITTINGS AND BANDS OR FASTENERS IN ACCORDANCE WITH PIPING MANUFACTURERS WRITTEN INSTRUCTIONS.
I. PVC PIPING SOLVENT-CEMENTED JOINTS: CLEAN AND DRY JOINING SURFACES. JOIN PIPE AND FITTINGS IN ACCORDANCE WITH THE FOLLOWING:
1. COMPLY WITH ASTM F402 FOR SAFE-HANDLING PRACTICE OF CLEANERS, PRIMERS, AND SOLVENT CEMENTS.
2. PVC PRESSURE PIPING: JOIN SCHEDULE NUMBER, ASTM D1785, PVC PIPE AND PVC SOCKET FITTINGS IN ACCORDANCE WITH ASTM D2672. JOIN OTHER-THAN-SCHEDULE-NUMBER PVC PIPE AND SOCKET FITTINGS IN ACCORDANCE WITH ASTM D2865.
3. PVC NONPRESSURE PIPING: JOIN IN ACCORDANCE WITH ASTM D2865.
3.4 INSTALLATION OF VALVES
A. UNDERGROUND CURB VALVES: INSTALL IN CURB-VALVE CASINGS WITH TOPS FLUSH WITH GRADE.
B. UNDERGROUND IRON GATE VALVES, RESILIENT SEAT: COMPLY WITH AWWA C800 AND AWWA M44. INSTALL IN VALVE CASING WITH TOP FLUSH WITH GRADE.
1. INSTALL VALVES AND PVC PIPE WITH RESTRAINED, GASKETED JOINTS.
C. ABOVEGROUND VALVES: INSTALL AS COMPONENTS OF CONNECTED PIPING SYSTEM.
D. THROTTLING VALVES: INSTALL IN UNDERGROUND PIPING IN BOXES FOR AUTOMATIC CONTROL VALVES.
E. DRAIN VALVES: INSTALL IN UNDERGROUND PIPING IN BOXES FOR AUTOMATIC CONTROL VALVES.
3.5 INSTALLATION OF SPRINKLERS
A. INSTALL SPRINKLERS AFTER HYDROSTATIC TEST IS COMPLETED.
B. INSTALL SPRINKLERS AT MANUFACTURER'S RECOMMENDED HEIGHTS.
C. LOCATE PART-CIRCLE SPRINKLERS TO MAINTAIN A MINIMUM DISTANCE OF 4 INCHES FROM WALLS AND 2 INCHES FROM OTHER BOUNDARIES UNLESS OTHERWISE INDICATED.
3.6 INSTALLATION OF AUTOMATIC IRRIGATION CONTROL SYSTEM
A. EQUIPMENT MOUNTING, INTERIOR: INSTALL CONTROLLERS ON INTERIOR WALL.
1. PLACE AND SECURE ANCHORAGE DEVICES. USE SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.
2. INSTALL ANCHOR BOLTS TO ELEVATIONS REQUIRED FOR PROPER ATTACHMENT TO SUPPORTED EQUIPMENT.
B. EQUIPMENT MOUNTING, EXTERIOR: INSTALL EXTERIOR PRE-CASTING CONTROLLERS ON PRECAST CONCRETE BASES.
1. PLACE AND SECURE ANCHORAGE DEVICES. USE SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.
2. INSTALL ANCHOR BOLTS TO ELEVATIONS REQUIRED FOR PROPER ATTACHMENT TO SUPPORTED EQUIPMENT.
C. INSTALL CONTROL CABLE IN SAME TRENCH AS IRRIGATION PIPING AND AT LEAST 2 INCHES BELOW OR BESIDE PIPING. PROVIDE CONDUCTORS OF SIZE NOT SMALLER THAN RECOMMENDED BY CONTROLLER MANUFACTURER. INSTALL CABLE IN SEPARATE SLEEVE UNDER PAVED AREAS.
3.7 IDENTIFICATION
A. IDENTITY SYSTEM COMPONENTS. COMPLY WITH REQUIREMENTS FOR IDENTIFICATION SPECIFIED IN SECTION 22 05 53 "IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT."
B. EQUIPMENT NAMEPLATES AND SIGNS: INSTALL ENGRAVED PLASTIC-LAMINATE EQUIPMENT NAMEPLATES AND SIGNS ON EACH AUTOMATIC CONTROLLER.
1. TEXT: IN ADDITION TO IDENTIFYING UNIT, DISTINGUISH BETWEEN MULTIPLE UNITS, INFORM OPERATOR OF OPERATIONAL REQUIREMENTS, INDICATE SAFETY AND EMERGENCY PRECAUTIONS, AND WARN OF HAZARDS AND IMPROPER OPERATIONS.
C. WARNING TAPES: ARRANGE FOR INSTALLATION OF CONTINUOUS, UNDERGROUND, DETECTABLE WARNING TAPES OVER UNDERGROUND PIPING DURING BACKFILLING OF TRENCHES.
3.8 FIELD QUALITY CONTROL
A. PERFORM TESTS AND INSPECTIONS.
B. TESTS AND INSPECTIONS:
1. LEAK TEST: AFTER INSTALLATION, CHARGE SYSTEM AND TEST FOR LEAKS. REPAIR LEAKS AND RETEST UNTIL NO LEAKS EXIST.
2. OPERATIONAL TEST: AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, OPERATE CONTROLLERS AND AUTOMATIC CONTROL VALVES TO CONFIRM PROPER SYSTEM OPERATION.
3. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.
4. IRRIGATION SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
C. PREPARE TEST AND INSPECTION REPORTS.
3.9 ADJUSTING
A. ADJUST SETTINGS OF CONTROLLERS.
B. ADJUST AUTOMATIC CONTROL VALVES TO PROVIDE FLOW RATE AT RATED OPERATING PRESSURE REQUIRED FOR EACH SPRINKLER CIRCUIT.
C. ADJUST SPRINKLERS AND DEVICES, EXCEPT THOSE INTENDED TO BE MOUNTED ABOVEGROUND, SO THEY WILL BE FLUSH WITH, OR NOT MORE THAN 1/2 INCH ABOVE, FINISH GRADE.
3.10 PIPING SCHEDULE
A. INSTALL COMPONENTS HAVING PRESSURE RATING EQUAL TO OR GREATER THAN SYSTEM OPERATING PRESSURE.
B. PIPING IN CONTROL-VALVE BOXES AND ABOVEGROUND MAY BE JOINED WITH FLANGES OR UNIONS INSTEAD OF JOINTS INDICATED.
C. ABOVEGROUND IRRIGATION MAIN PIPING:
1. NPS 4 AND SMALLER:
A. GALVANIZED-STEEL PIPE AND GALVANIZED-STEEL PIPE NIPPLES; GALVANIZED, GRAY-IRON THREADED FITTINGS; AND THREADED JOINTS.
B. TYPE M HARD COPPER TUBE, WROUGHT- OR CAST-COPPER FITTINGS, AND SOLDERED JOINTS.
C. SCHEDULE 80, PVC PIPE, SOCKET-TYPE PVC FITTINGS; AND SOLVENT-CEMENTED JOINTS.
D. SCHEDULE 80, PVC PIPE, SCHEDULE 80, THREADED PVC FITTINGS; AND THREADED JOINTS.
D. UNDERGROUND IRRIGATION MAIN PIPING:
1. NPS 4 AND SMALLER:
A. NPS 3 AND NPS 4 DUCTILE-IRON, PUSH-ON-JOINT PIPE; DUCTILE-IRON, PUSH-ON-JOINT FITTINGS AND GASKETS; AND GASKETED JOINTS.
B. TYPE L SOFT COPPER TUBE, WROUGHT-COPPER FITTINGS, AND BRAZED JOINTS.
C. SCHEDULE 80, PVC PIPE AND SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.
D. SCHEDULE 80, PVC PIPE, SCHEDULE 80, THREADED PVC FITTINGS; AND THREADED JOINTS.
E. SDR 21, PE, PRESSURE-RATED PIPE, SCHEDULE 80, PVC SOCKET FITTINGS; AND SOLVENT-CEMENTED JOINTS.
E. CIRCUIT PIPING:
1. NPS 2 AND SMALLER:
A. SDR 9, PE, CONTROLLED ID PIPE; INSERT FITTINGS FOR PE PIPE; AND FASTENER JOINTS.
B. SCHEDULE 40, PVC PIPE AND SOCKET FITTINGS; AND SOLVENT-CEMENTED JOINTS.
C. SDR 26, PVC, PRESSURE-RATED PIPE, SCHEDULE 40, PVC SOCKET FITTINGS; AND SOLVENT-CEMENTED JOINTS.
2. NPS 2-1/2 TO NPS 4:
A. SDR 9, PE, CONTROLLED ID PIPE; INSERT FITTINGS FOR PE PIPE; AND Banded OR FASTENER JOINTS.
B. DR 11, PE, CONTROLLED OD PIPE; PE SOCKET OR BUTT-FUSION FITTINGS, AND HEAT-FUSION JOINTS. NPS 3 PIPE AND FITTINGS IF NPS 2-1/2 PIPE AND FITTINGS ARE NOT AVAILABLE.
C. SCHEDULE 40, PVC PIPE AND SOCKET FITTINGS; AND SOLVENT-CEMENTED JOINTS.
D. SDR 26, PVC, PRESSURE-RATED PIPE, SCHEDULE 40, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.
F. UNDERGROUND BRANCHES AND OFFSETS AT SPRINKLERS AND DEVICES: SCHEDULE 80, PVC PIPE; THREADED PVC FITTINGS; AND THREADED JOINTS.
1. OPTION: PLASTIC SWING-JOINT ASSEMBLIES, WITH OFFSETS FOR FLEXIBLE JOINTS, MANUFACTURED FOR THIS APPLICATION.
G. RISERS TO ABOVEGROUND SPRINKLERS AND SPECIALTIES:
1. TYPE M HARD COPPER TUBE, WROUGHT-COPPER FITTINGS, AND SOLDERED JOINTS.
2. SCHEDULE 80, PVC PIPE AND SOCKET FITTINGS; AND SOLVENT-CEMENTED JOINTS.
H. DRAIN PIPING SHALL BE ONE OF THE FOLLOWING:
1. SDR 9, 11.5, OR 15, PE, CONTROLLED ID PIPE; INSERT FITTINGS FOR PE PIPE; AND Banded OR FASTENER JOINTS.
2. SCHEDULE 40, PVC PIPE AND SOCKET FITTINGS; AND SOLVENT-CEMENTED JOINTS.
3. SDR 21, 26, OR 32.5, PVC, PRESSURE-RATED PIPE, SCHEDULE 40, PVC SOCKET FITTINGS; AND SOLVENT-CEMENTED JOINTS.
3.11 VALVE SCHEDULE
A. UNDERGROUND, SHUTOFF-DUTY VALVES: USE THE FOLLOWING:
1. NPS 2 AND SMALLER: CURB VALVE, CURB-VALVE CASING, AND SHUTOFF ROD.
2. NPS 3 AND LARGER: IRON GATE VALVE, RESILIENT SEATED, IRON GATE VALVE CASING; AND OPERATING WRENCH(ES).
B. ABOVEGROUND, SHUTOFF-DUTY VALVES:
1. NPS 2 AND SMALLER:
A. BRASS BALL VALVE.
B. BRONZE GATE VALVE.
2. NPS 2-1/2 AND LARGER:
A. IRON BALL VALVE.
B. IRON GATE VALVE, NRS.
C. THROTTLING-DUTY VALVES:
1. NPS 2 AND SMALLER:
A. PLASTIC AUTOMATIC CONTROL VALVE.
B. BRASS BALL VALVE.
2. NPS 2-1/2 AND NPS 3:
3. PLASTIC AUTOMATIC CONTROL VALVE.
4. IRON BALL VALVE.
D. DRAIN VALVES:
1. NPS 1/2 AND NPS 3/4:
A. AUTOMATIC DRAIN VALVE.
B. BRASS BALL VALVE.
C. BRONZE GATE VALVE.
2. NPS 1 TO NPS 2:
A. BRASS BALL VALVE.
B. BRONZE GATE VALVE.

END OF SECTION 32 84 00

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