

ST. PAUL'S SCHOOL NEW SQUASH CENTER

87 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

SITE ENGINEER
NOBIS GROUP. - CONCORD, NH
ARCHITECT
SASAKI - BOSTON, MA
SURVEYOR
RICHARD D. BARTLETT & ASSOCIATES, LLC - CONCORD, NH
LANDSCAPE ARCHITECT
SASAKI - BOSTON, MA
SITE LIGHTING
HLB - NEW YORK, NY
OWNER/APPLICANT
ST. PAUL'S SCHOOL - CONCORD, NH

CITY OF CONCORD APPROVALS/REQUESTS:

THE ZONING BOARD OF ADJUSTMENT OF THE CITY OF CONCORD, GRANTED THE FOLLOWING VARIANCES ON NOVEMBER 4, 2024. (ZBA-0230-2024)

ARTICLE 28-4-3(c)(1) - WETLAND BUFFERS AND SETBACKS- CERTAIN USES PROHIBITED IN BUFFERS: TO ALLOW CONSTRUCTION OF A BUILDING OR STRUCTURE IN 8,200 SQUARE FEET OF WETLAND BUFFER WHERE CONSTRUCTION OF A BUILDING IN A WETLAND IS PROHIBITED

ARTICLE 28-7-2(e)(B) - TABLE OF OFF-STREET PARKING REQUIREMENTS: TO ALLOW 96 PARKING SPACES WHERE 1,334 PARKING SPACES ARE REQUIRED.

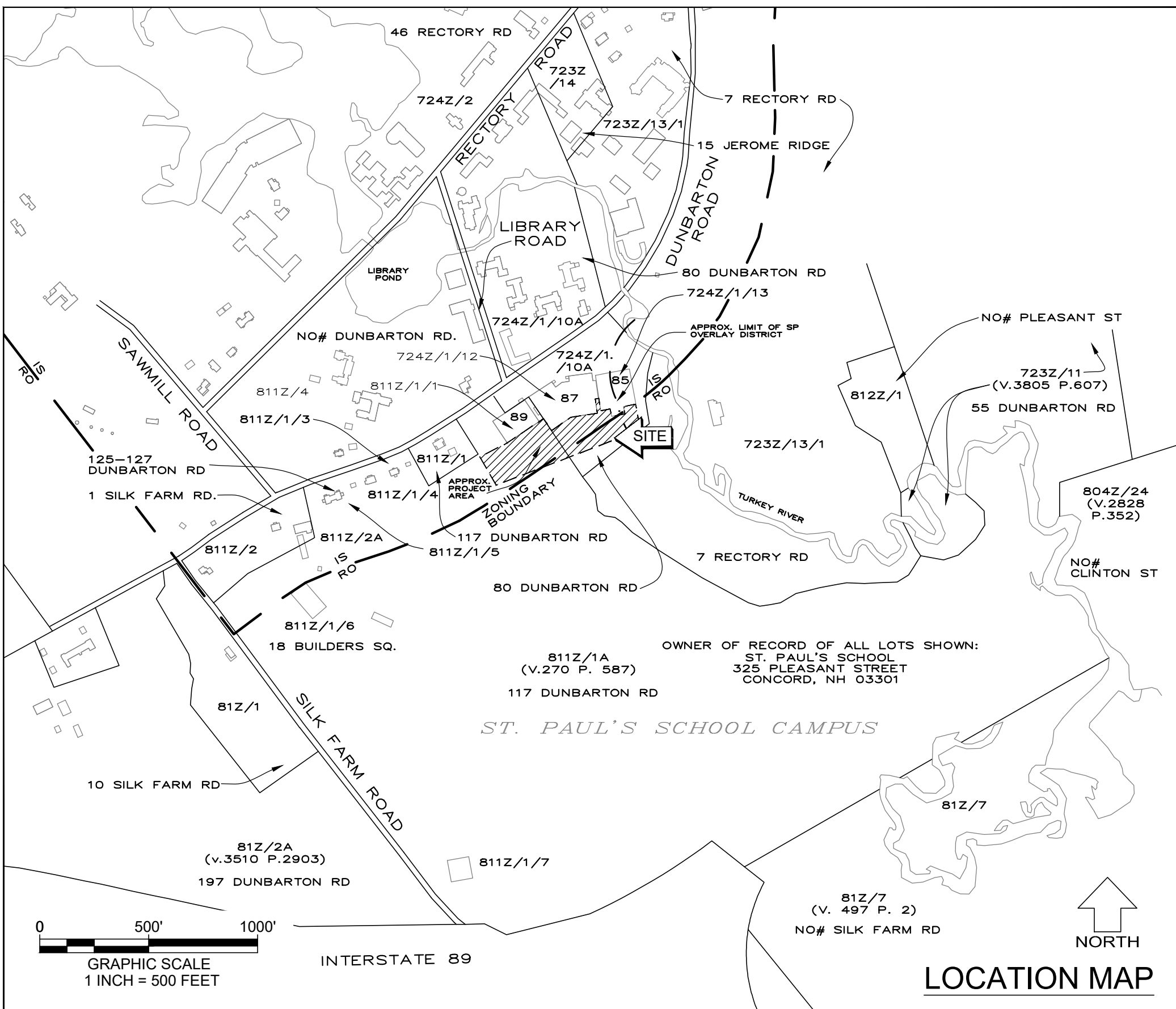
ARTICLE 28-7-5 - REQUIREMENTS FOR HANDICAPPED ACCESSIBLE PARKING SPACES: TO ALLOW 5 ACCESSIBLE PARKING SPACES WHERE 24 ACCESSIBLE PARKING SPACES ARE REQUIRED.

THE FOLLOWING CONDITIONAL USE PERMIT AND WAIVERS ARE REQUESTED FROM THE PLANNING BOARD OF THE CITY OF CONCORD.

CONDITIONAL USE PERMITS REQUESTED FOR SITE PLAN APPROVAL
ARTICLE 28-4-3(d) - DISTURBANCE TO A WETLAND BUFFER

WAIVERS REQUESTED FOR SITE PLAN APPROVAL

- | | |
|--------------------------|--------------------------|
| 1. SECTION 12.02(1)(a) | 11. SECTION 15.04(1) |
| 2. SECTION 12.04(4) | 12. SECTION 15.04(2) |
| 3. SECTION 12.07 | 13. SECTION 15.04(22) |
| 4. SECTION 15.02(8) | 14. SECTION 15.04(27) |
| 5. SECTION 15.03(1) | 15. SECTION 16.02(7) |
| 6. SECTION 15.03(2) | 16. SECTION 16.02(22) |
| 7. SECTION 15.03(18) | 17. SECTION 18.13 |
| 8. SECTION 15.03(19) | 18. SECTION 18.17 |
| 9. SECTION 15.03(22) | 19. SECTION 29-1-2(a)(1) |
| 10. SECTION 15.03(23)(c) | |



LEGEND

EXISTING	PROPOSED		EXISTING	PROPOSED	
		SUBJECT PROPERTY LINE			DRAIN MANHOLE
		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
		BITUMINOUS CONCRETE CURB			RIP RAP
		CONCRETE CURB			WETLAND
		CAPE COD BERM			WETLAND IMPACT
		TIP DOWN			FLOW DIRECTION
		MAJOR CONTOUR			STONE CHECK DAM
		MINOR CONTOUR			INLET PROTECTION
		DRAIN LINE			SLOPE & DIRECTION
		ROOF DRAIN			TEST PIT LOCATION
		UNDER DRAIN			BORING LOCATION
		FOUNDATION DRAIN			MONITORING WELL LOCATION
		SWALE FLOW DIRECTION			PERC. TEST LOCATION
		SILT FENCE / WATTLE			PHOTO LOCATION / DIRECTION
		OVERHEAD UTILITY WIRE			MANHOLE
		UNDERGROUND ELECTRIC			TELECOM MANHOLE
		UNDERGROUND TELECOM			ELECTRIC MANHOLE
		SANITARY SEWER LINE			STEEP SLOPE
		SANITARY SEWER SERVICE			
		SANITARY SEWER FORCE MAIN			
		WATER LINE			
		WATER SERVICE			
		GAS LINE			
		STEAM LINE			
		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 ST. PAUL'S SCHOOL, NEW SQUASH CENTER, 87 DUNBARTON ROAD, CONCORD, NH" DATED SEPTEMBER 17, 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 PLAT PREPARED FOR ST. PAUL'S SCHOOL" DATED AUGUST 8, 2025, PROVIDED TO NOBIS GROUP BY RICHARD D. BARTLETT & ASSOCIATES, LLC.
- THESE DRAWINGS AND ACCOMPANYING TEXT HAVE BEEN PREPARED FOR ST. PAUL, NEW SQUASH CENTER, FOR REVIEW BY THE CITY OF CONCORD PLANNING BOARD, CODE ENFORCEMENT, GENERAL SERVICES, POLICE, AND FIRE DEPARTMENTS.
- 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.
- THE IMPROVEMENTS BUILT AND CONSTRUCTED AS PART OF AN APPROVED SITE PLAN SHALL BE MAINTAINED IN PERPETUITY IN ACCORDANCE WITH ALL STATE AND FEDERAL RULES AND REGULATIONS, AND THE MAINTENANCE AND OPERATIONS PLAN SET FORTH IN SECTION 22.05 OF THE CITY OF CONCORD'S CONSTRUCTION STANDARDS AND DETAILS (LATEST EDITION), AS WELL AS ANY MANUFACTURER'S SPECIFICATIONS.
- 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 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.

SPECIFICATION REFERENCES:

- REFERENCE TO CITY STANDARDS SHALL MEAN THE CITY OF CONCORD, CONSTRUCTIONS STANDARDS AND DETAILS, AS MOST RECENTLY PUBLISHED.
- REFERENCE TO STATE SPECIFICATIONS SHALL MEAN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, AS MOST RECENTLY PROMULGATED.
- REFERENCE TO MUTCD SHALL MEAN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, AS MOST RECENTLY PUBLISHED.
- REFERENCE TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE NHDES SHALL MEAN THE CONSTRUCTION STANDARDS FOR SANITARY SEWER AND WATER SUPPLY SYSTEMS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES, AS MOST RECENTLY ADOPTED.
- REFERENCE TO THE ARCHITECTURAL BARRIER FREE CODE SHALL MEAN THE ACCESSIBLE AND USEABLE BUILDING AND FACILITIES CODE OF THE INTERNATIONAL CODE COUNCIL, AS MOST RECENTLY ADOPTED BY THE CITY.
- REFERENCE TO THE ALTERATIONS OF TERRAIN STANDARDS SHALL MEAN THE NH DEPARTMENT OF ENVIRONMENTAL SERVICES ALTERATION OF TERRAIN (AOT) (CHAPTER ENV-WQ 1500).
- REFERENCE TO STANDARDS FOR SEWER DISCHARGE PERMITS SHALL MEAN THE NH DEPARTMENT OF ENVIRONMENTAL SERVICES STANDARDS OF DESIGN AND CONSTRUCTION FOR SEWERAGE AND WASTEWATER TREATMENT FACILITIES (CHAPTER ENV-WQ 700).
- REFERENCE TO STANDARDS FOR SEPTIC SYSTEMS SHALL MEAN THE NH DEPARTMENT OF ENVIRONMENTAL SERVICES SUBDIVISION AND INDIVIDUAL SEWAGE DISPOSAL SYSTEM DESIGN RULES (CHAPTER ENV-WQ 1000).
- REFERENCE TO STANDARDS FOR POTABLE WELLS SHALL MEAN NH WATER WELL BOARD STANDARDS FOR THE CONSTRUCTION, MAINTENANCE AND ABANDONMENT OF WELLS (CHAPTER ENV-WQ 600).
- REFERENCE TO THE ARCHITECTURAL DESIGN REVIEW GUIDELINES SHALL MEAN THE GUIDELINES ADOPTED BY THE CITY OF CONCORD, PLANNING BOARD AS SET FORTH HEREIN, IN SECTION 33.07, ARCHITECTURAL DESIGN GUIDELINES.

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.
- 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.
- CONSTRUCT BUILDING FOUNDATION AND FOOTINGS.
- PLACE AND COMPACT NEW GRAVEL COURSES IN THE PARKING, SIDEWALK, AND GRAVEL ACCESS DRIVE AREAS.
- PLACE, GRADE, AND STABILIZE DISTURBED AREAS WITH TEMPORARY SEEDING AND MULCHING.
- BEGIN CONSTRUCTION OF BUILDING AND REMAINING SITE WORK.
- 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.

CAUTION

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

- ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, EXCEPT FOR SILT FENCE INSTALLED IN ACCORDANCE WITH ENV-WQ 1506.04, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN WELDED PLASTIC, PLASTIC, OR MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH.
- ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHEGVIEW@WILDLIFE.NH.GOV. EMAIL SUBJECT LINE: NHB25-0298, ST. PAUL'S SCHOOL, NEW SQUASH CENTER, WILDLIFE SPECIES OBSERVATION. PHOTOGRAPHS SHALL BE PROVIDED FOR VERIFICATION AS FEASIBLE.
- 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.
- IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF 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, IF ANY, TO ASSURE THE PROJECT DOES NOT APPRECIABLY JEOPARDIZE THE CONTINUED EXISTENCE OF THREATENED AND ENDANGERED SPECIES AS DEFINED IN FIS 1002.04. AND THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

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 SPRING 2026 WITH A FINAL COMPLETION DATE IN SUMMER 2027. 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:

1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
2. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
3. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED;
4. 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 (MG/L), RESPECTIVELY.

SPECIFICATIONS FOR TEMPORARY AND PERMANENT SEEDING:

GRASS SEED MIXES SHALL CONSIST OF THE MIXTURES AS DETAILED IN THE FOLLOWING TABLES, WITH 98% PURITY:

EROSION CONTROL SEED MIX			
	SEED	BY % MASS	% GERMINATION (MIN.)
WINTER RYE 80 (MIN.)	80 (MIN.)		85
RED FESCUE (CREEPING)	4 (MIN.)		80
PERENNIAL RYE GRASS	3 (MIN.)		90
RED CLOVER	3 (MIN.)		90
OTHER CROP GRASS	0.5 (MAX.)		
NOXIOUS WEED SEED	0.5 (MAX.)		
INERT MATTER	1.0 (MAX.)		

PERMANENT SEED MIX			
	SEED	BY % MASS	% GERMINATION (MIN.)
RED FESCUE (CREEPING)	50		85
KENTUCKY BLUE	25		85
PERENNIAL RYE GRASS	10		90
RED TOP	10		85
LANDINO CLOVER	5		85

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.

SASAKI

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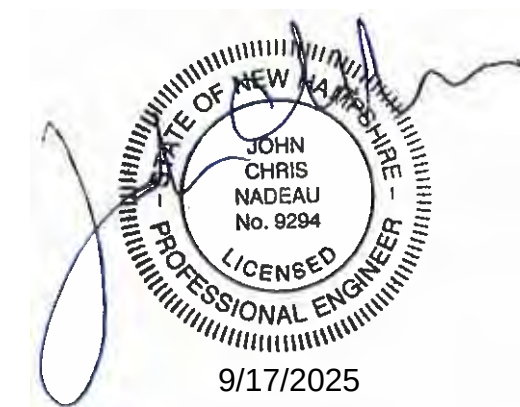
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NOT ISSUED
FOR
CONSTRUCTION

No.	Description	Date
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DRAWING ISSUE & REVISION HISTORY

Seal



ST. PAUL'S SCHOOL
NEW SQUASH CENTER

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

OWNER/APPLICANT:
ST. PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040

Sasaki Project No: 250018.00

Drawn By: NOBIS - MGD/CMB

Checked By: NOBIS - JCN/NCP

Approved By: NOBIS - JCN

Issue Date: 09.17.2025

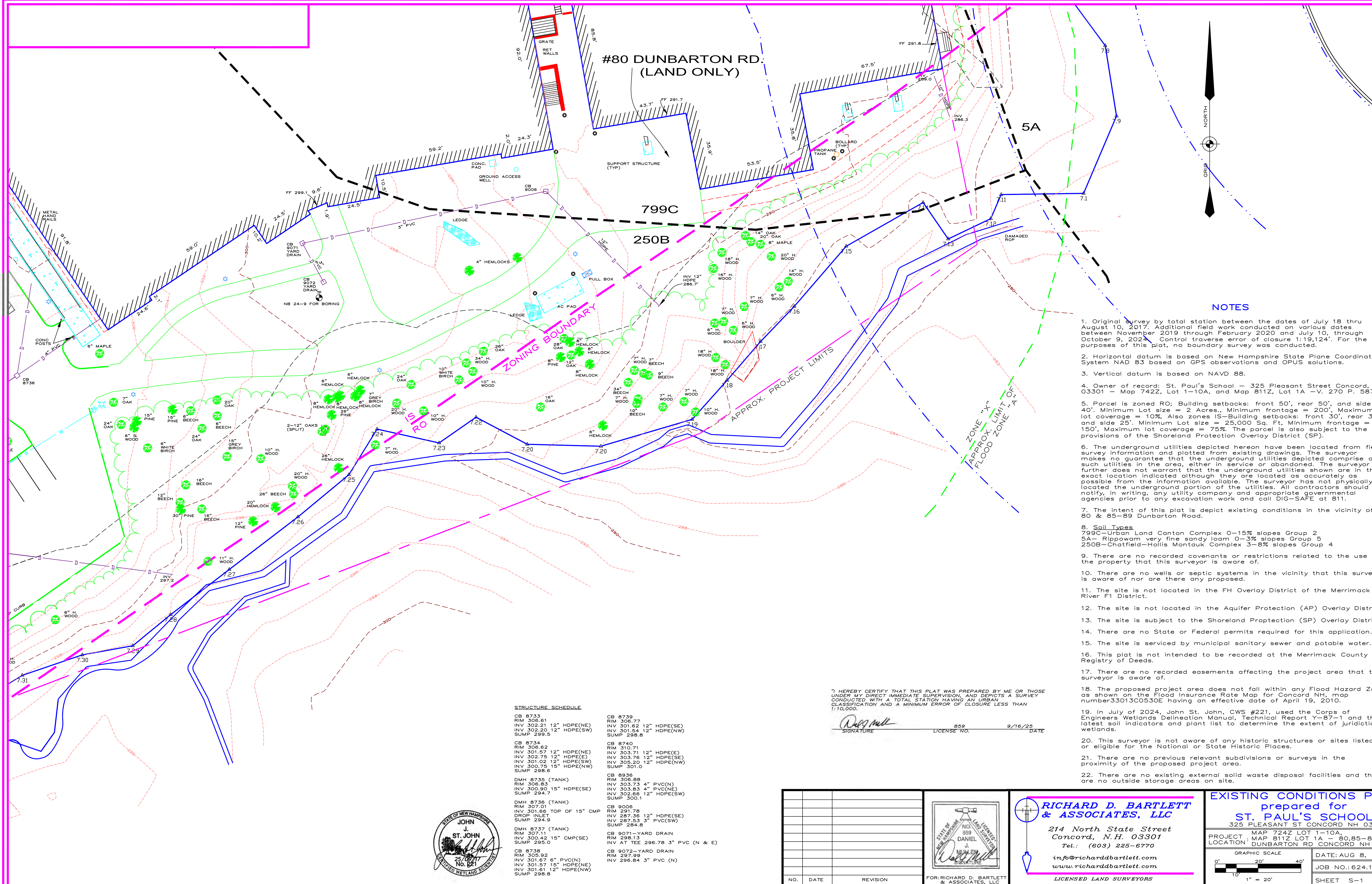
SCALE:
AS NOTED

SHEET TITLE

GENERAL
NOTES AND
LEGEND

SHEET

G-1



NOTES

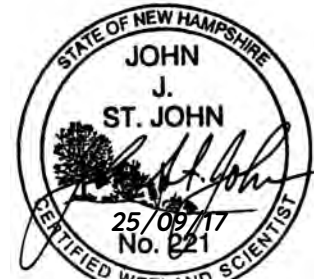
1. Original survey by total station between the dates of July 18 thru August 10, 2017. Additional field work conducted on various dates between November 2019 through February 2020 and July 10, through October 9, 2024. Control travers error of closure 1:19,124'. For the purposes of this plat, no boundary survey was conducted.
2. Horizontal datum is based on New Hampshire State Plane Coordinate System NAD 83 based on GPS observations and OPUS solutions.
3. Vertical datum is based on NAVD 88.
4. Owner of record: St. Paul's School - 325 Pleasant Street Concord, NH 03301 - Map 742Z, Lot 1-10A, and Map 811Z, Lot 1A -V. 270 P. 587
5. Parcel is zoned RO; Building setbacks: front 50', rear 50', and side 40'. Minimum Lot size = 2 Acres., Minimum frontage = 200'. Maximum lot coverage = 10%. Also zones IS-Building setbacks: front 30', rear 30', and side 25'. Minimum Lot size = 25,000 Sq. Ft. Minimum frontage = 150'. Maximum lot coverage = 75%. The parcel is also subject to the provisions of the Shoreland Protection Overlay District (SP).
6. The underground utilities depicted hereon have been located from field survey information and plotted from existing drawings. The surveyor makes no guarantee that the underground utilities depicted comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although they are located as accurately as possible from the information available. The surveyor has not physically located the underground portion of the utilities. All contractors should notify, in writing, any utility company and appropriate governmental agencies prior to any excavation work and call DIG-SAFE at 811.
7. The intent of this plat is depict existing conditions in the vicinity of 80 & 85-89 Dunbarton Road.
8. Soil Types
799C-Urban Land Canton Complex 0-15% slopes Group 2
5A- Rippowam very fine sandy loam 0-3% slopes Group 5
250B-Chatfield-Hollis Montauk Complex 3-8% slopes Group 4
9. There are no recorded covenants or restrictions related to the use of the property that this surveyor is aware of.
10. There are no wells or septic systems in the vicinity that this surveyor is aware of nor are there any proposed.
11. The site is not located in the FH Overlay District of the Merrimack River F1 District.
12. The site is not located in the Aquifer Protection (AP) Overlay District.
13. The site is subject to the Shoreland Protection (SP) Overlay District.
14. There are no State or Federal permits required for this application.
15. The site is serviced by municipal sanitary sewer and potable water.
16. This plat is not intended to be recorded at the Merrimack County Registry of Deeds.
17. There are no recorded easements affecting the project area that this surveyor is aware of.
18. The proposed project area does not fall within any Flood Hazard Zone as shown on the Flood Insurance Rate Map for Concord NH, map number 33013C0530E having an effective date of April 19, 2010.
19. In July of 2024, John St. John, CWS #221, used the Corps of Engineers Wetlands Delineation Manual Technical Report Y-87-1 and the latest soil indicators and plant list to determine the extent of jurisdictional wetlands.
20. This surveyor is not aware of any historic structures or sites listed or eligible for the National or State Historic Places.
21. There are no previous relevant subdivisions or surveys in the proximity of the proposed project area.
22. There are no existing external solid waste disposal facilities and there are no outside storage areas on site.

"I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED BY ME OR THOSE UNDER MY DIRECT IMMEDIATE SUPERVISION, AND DEPICTS A SURVEY CONDUCTED WITH A TOTAL STATION HAVING AN URBAN CLASSIFICATION AND A MINIMUM ERROR OF CLOSURE LESS THAN 1:10,000."

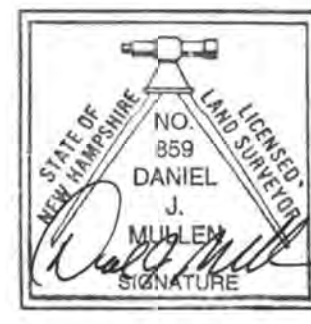
[Signature] 859 9/16/25
SIGNATURE LICENSE NO. DATE

STRUCTURE SCHEDULE

CB 8733 RIM 306.61 INV 302.21 12" HDPE(NE) INV 302.20 12" HDPE(SW) SUMP 299.5	CB 8739 RIM 306.77 INV 301.62 12" HDPE(SE) INV 301.54 12" HDPE(NW) SUMP 298.8
CB 8734 RIM 306.62 INV 301.57 12" HDPE(NE) INV 302.75 12" HDPE(E) INV 301.02 12" HDPE(SW) INV 300.75 15" HDPE(NW) SUMP 298.6	CB 8740 RIM 310.71 INV 303.71 12" HDPE(E) INV 303.76 12" HDPE(SE) INV 305.20 12" HDPE(NW) SUMP 300.0
DMH 8735 (TANK) RIM 306.83 INV 300.90 15" HDPE(SE) SUMP 294.7	CB 8936 RIM 306.88 INV 303.73 4" PVC(N) INV 303.83 4" PVC(NE) INV 302.66 12" HDPE(SW) SUMP 300.1
DMH 8736 (TANK) RIM 307.01 INV 301.66 TOP OF 15" CMP SUMP 294.9	CB 9006 RIM 291.78 INV 287.36 12" HDPE(SE) INV 287.53 3" PVC(SW) SUMP 284.8
DMH 8737 (TANK) RIM 307.11 INV 300.42 15" CMP(SE) SUMP 295.0	CB 9071-YARD DRAIN RIM 298.13 INV AT TEE 296.78 3" PVC (N & E)
CB 8738 RIM 305.92 INV 301.67 6" PVC(N) INV 301.57 15" HDPE(NE) INV 301.61 12" HDPE(NW) SUMP 298.8	CB 9072-YARD DRAIN RIM 297.99 INV 296.84 3" PVC (N)



NO.	DATE	REVISION

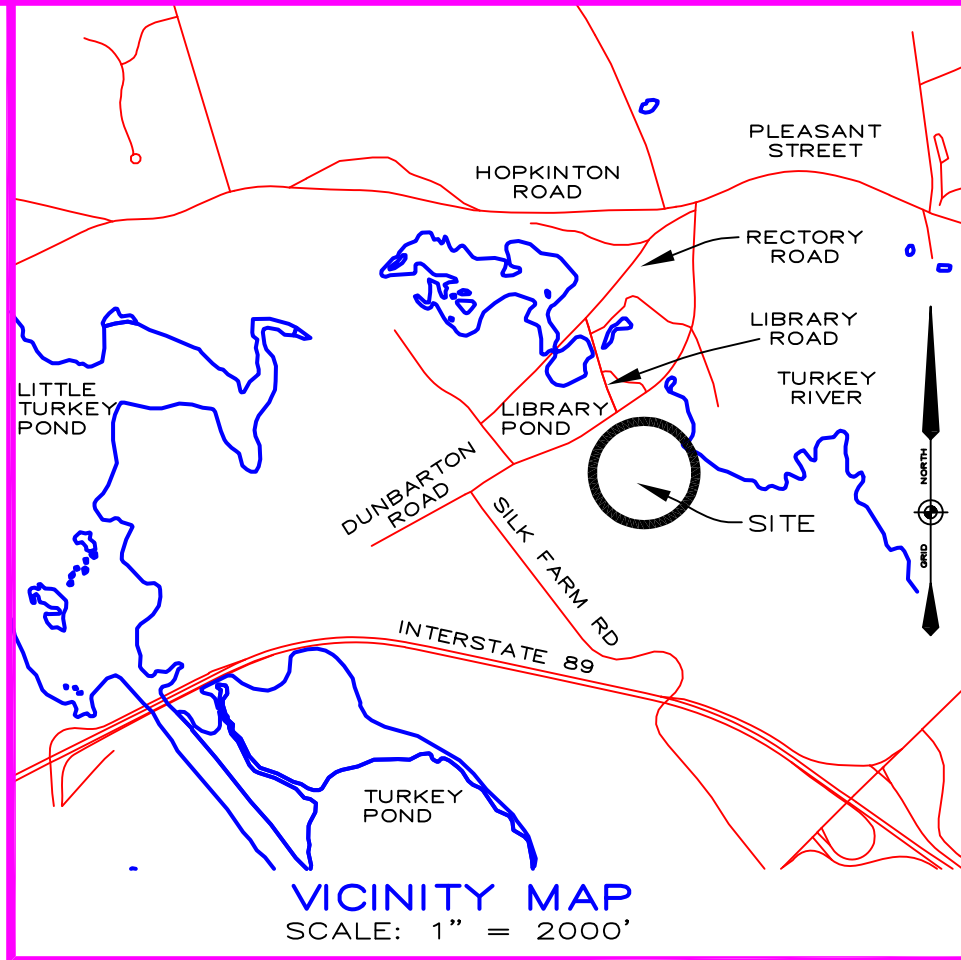
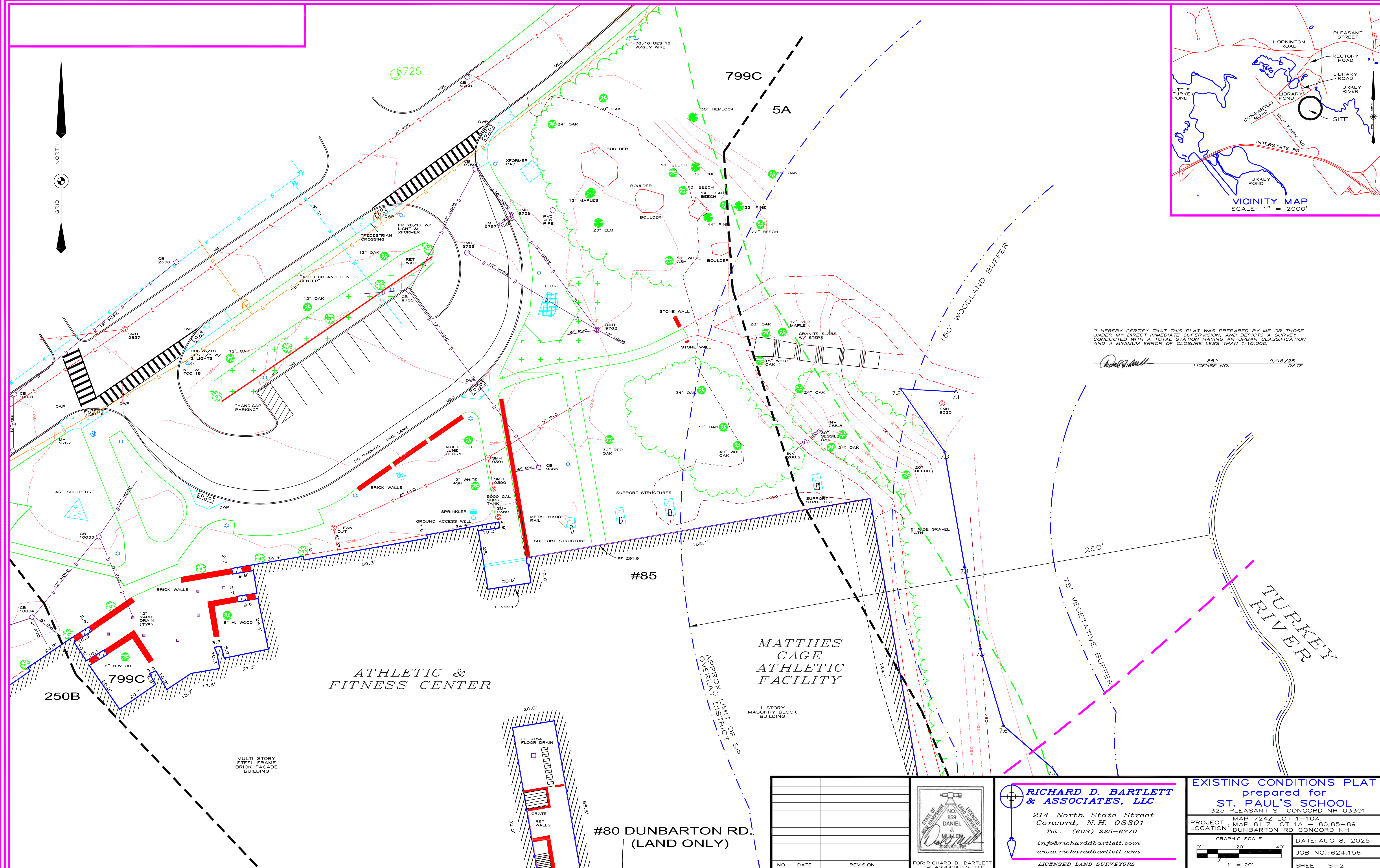


FOR: RICHARD D. BARTLETT & ASSOCIATES, LLC

RICHARD D. BARTLETT & ASSOCIATES, LLC
214 North State Street
Concord, N.H. 03301
Tel.: (603) 225-6770
info@richarddbartlett.com
www.richarddbartlett.com
LICENSED LAND SURVEYORS

EXISTING CONDITIONS PLAT
prepared for
ST. PAUL'S SCHOOL
325 PLEASANT ST CONCORD NH 03301
PROJECT: MAP 724Z LOT 1-10A
LOCATION: DUNBARTON RD CONCORD NH
GRAPHIC SCALE
0' 20' 40'
1" = 20'
DATE: AUG 8, 2025
JOB NO.: 624.156
SHEET S-1

MATCH TO SHEET 4



"I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED BY ME OR THOSE UNDER MY DIRECT IMMEDIATE SUPERVISION, AND DEPICTS A SURVEY CONDUCTED WITH A TOTAL STATION HAVING AN URBAN CLASSIFICATION AND A MINIMUM ERROR OF CLOSURE LESS THAN 1:10,000.

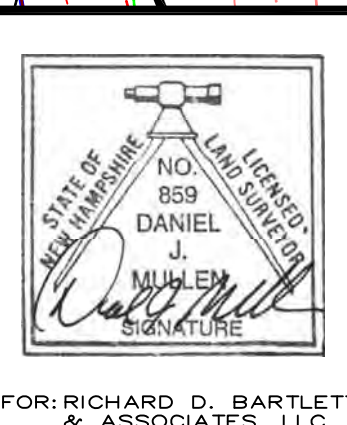
Richard D. Bartlett
859 LICENSE NO. 9/16/25 DATE

250B 799C
ATHLETIC & FITNESS CENTER

#80 DUNBARTON RD.
(LAND ONLY)

MATTHES
CAGE
ATHLETIC
FACILITY

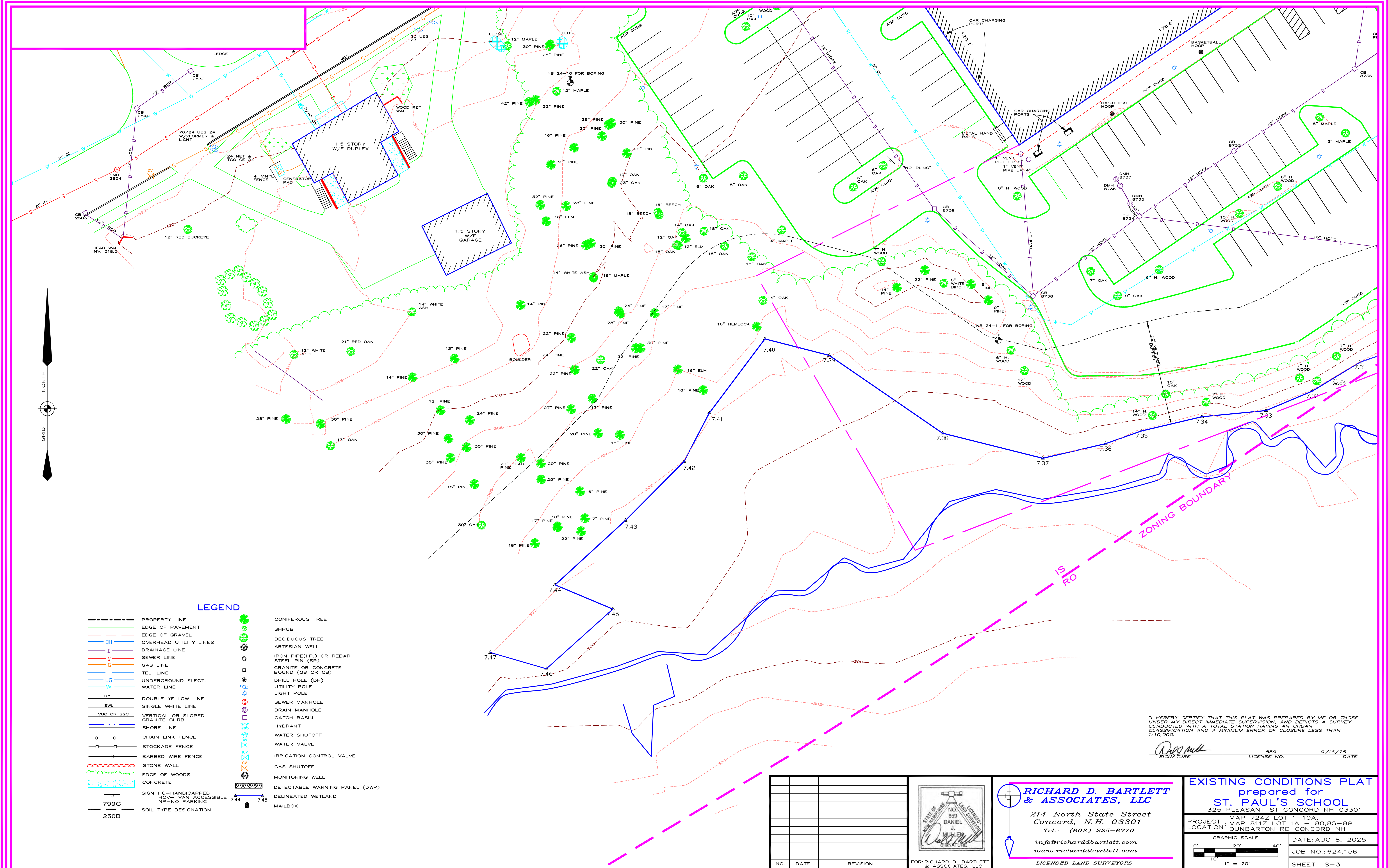
NO.	DATE	REVISION



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325 PLEASANT ST CONCORD NH 03301
PROJECT: MAP 724Z LOT 1-10A
LOCATION: MAP 811Z LOT 1A - 80,85-89
DUNBARTON RD CONCORD NH
GRAPHIC SCALE
0' 20' 40'
1" = 20'
DATE: AUG 8, 2025
JOB NO.: 624.156
SHEET S-2

MATCH TO SHEET 1



MATCH TO SHEET 1

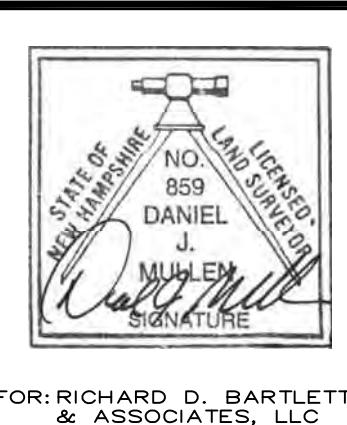
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Richard D. Bartlett
SIGNATURE

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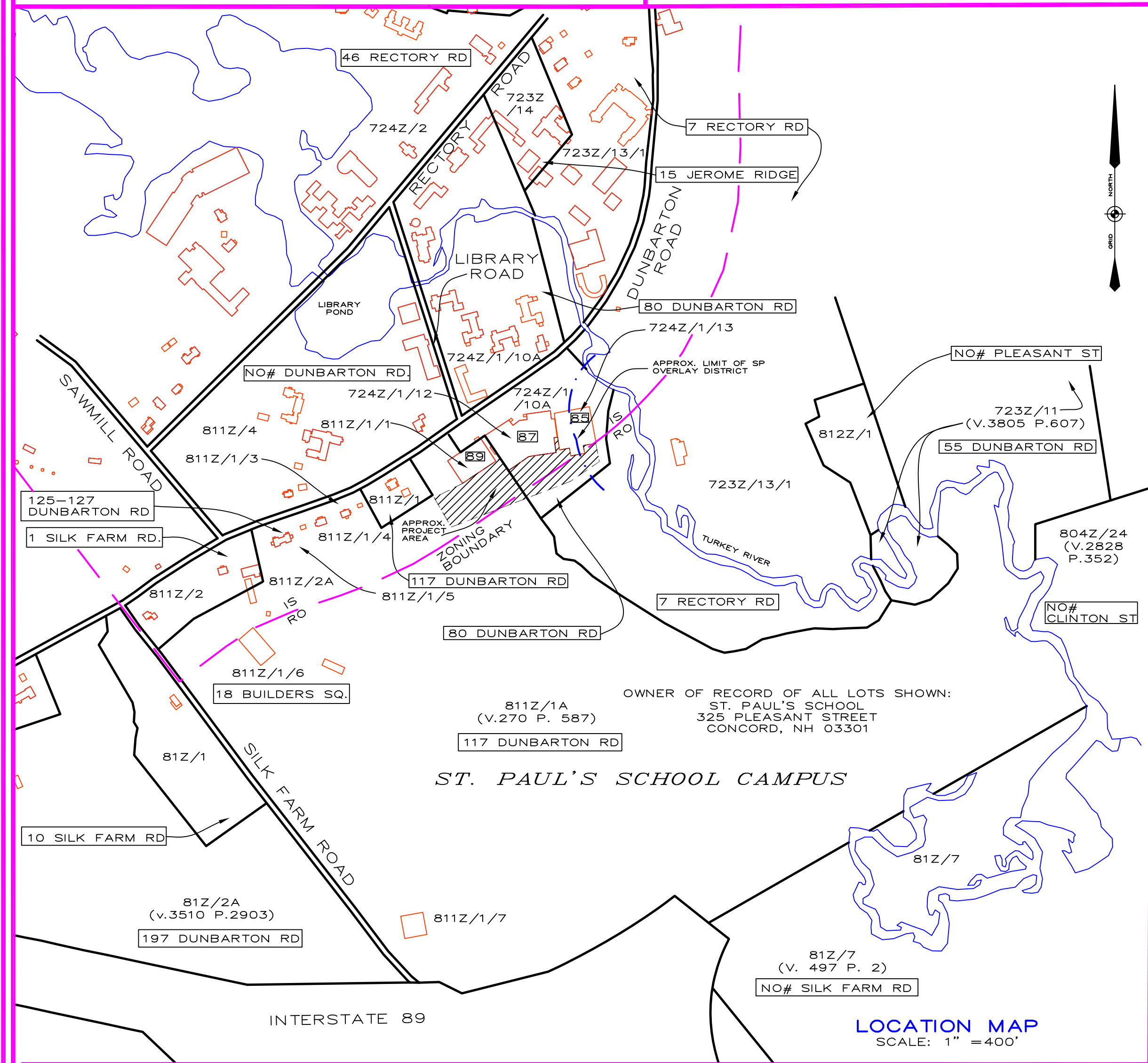
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EXISTING CONDITIONS PLAT
prepared for
ST. PAUL'S SCHOOL
325 PLEASANT ST CONCORD NH 03301

PROJECT: MAP 724Z LOT 1-10A,
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DUNBARTON RD CONCORD NH

GRAPHIC SCALE
0' 20' 40'
1" = 20'

DATE: AUG 8, 2025
JOB NO.: 624.156
SHEET S-3



PLANNING BOARD CONDITIONS

The development is subject to all subsequent conditions of Planning Board approval Case _____ dated _____.

WAIVERS

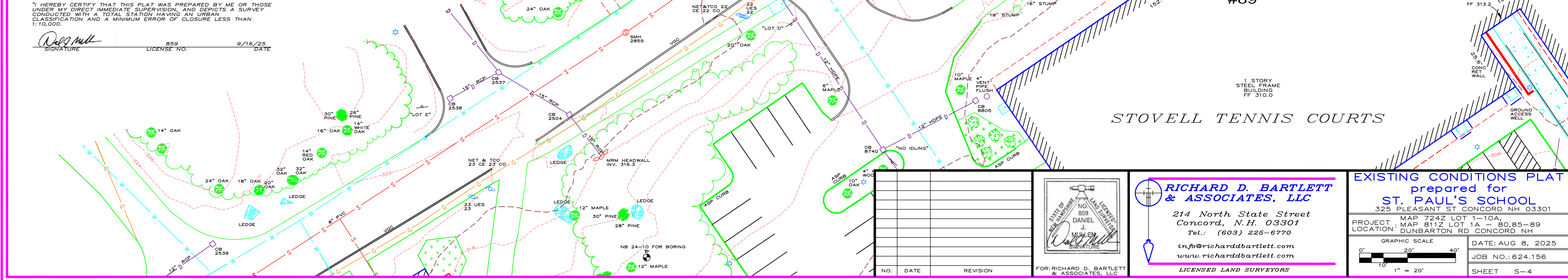
Based on Planning Board approval date of _____

- 12.06(4) References to prior subdivisions or surveys
- 15.02(7) Multiple Sheets
- 15.03(1) Property lines
- 15.03(16) Signs
- 15.03(17) Solid Waste & Outside Storage
- 15.03(18) Lighting
- 15.03(19) Setbacks
- 15.03(22) Abutting Properties
- 15.03(23) Tabulations

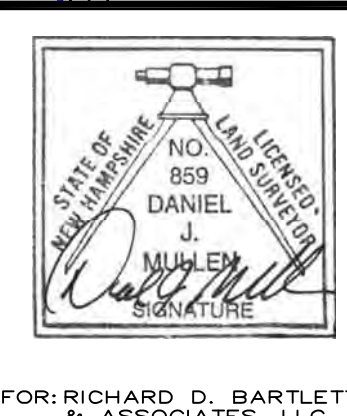


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Richard D. Bartlett
SIGNATURE
859 LICENSE NO.
9/16/25 DATE



NO.	DATE	REVISION

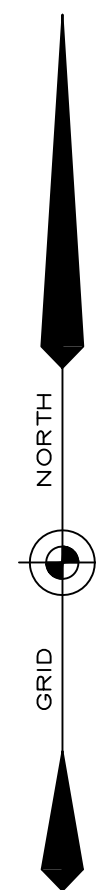


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LOCATION: DUNBARTON RD CONCORD NH
GRAPHIC SCALE
0' 20' 40'
1" = 20'
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JOB NO.: 624.156
SHEET S-4

MATCH TO SHEET 2

MATCH TO SHEET 3



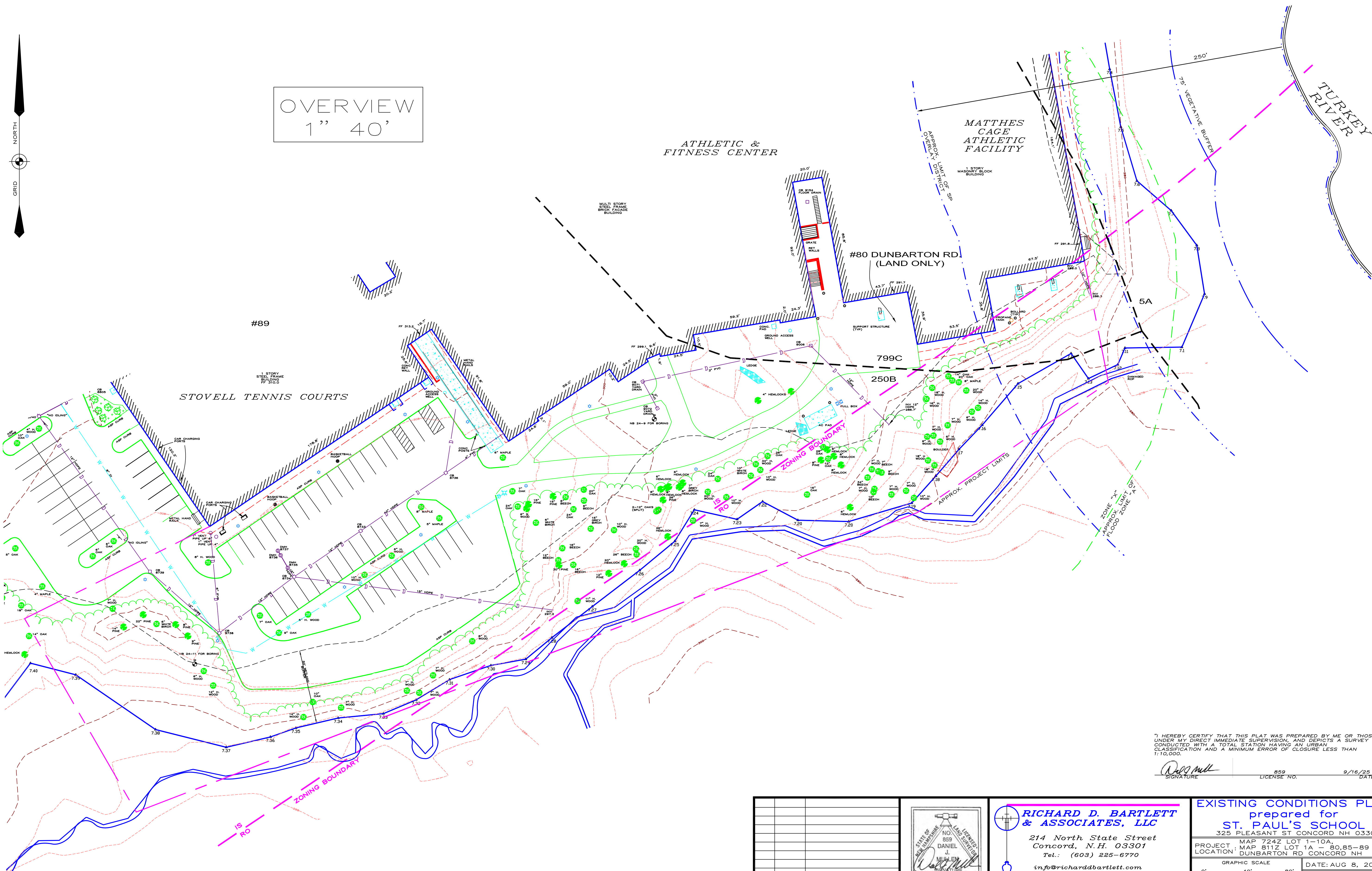
OVERVIEW
1" = 40'

ATHLETIC &
FITNESS CENTER

MATTHES
CAGE
ATHLETIC
FACILITY

#80 DUNBARTON RD.
(LAND ONLY)

STOVELL TENNIS COURTS

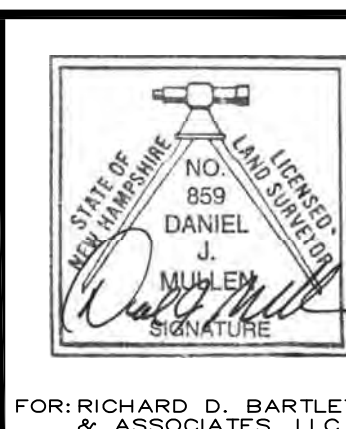


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Richard D. Bartlett
SIGNATURE

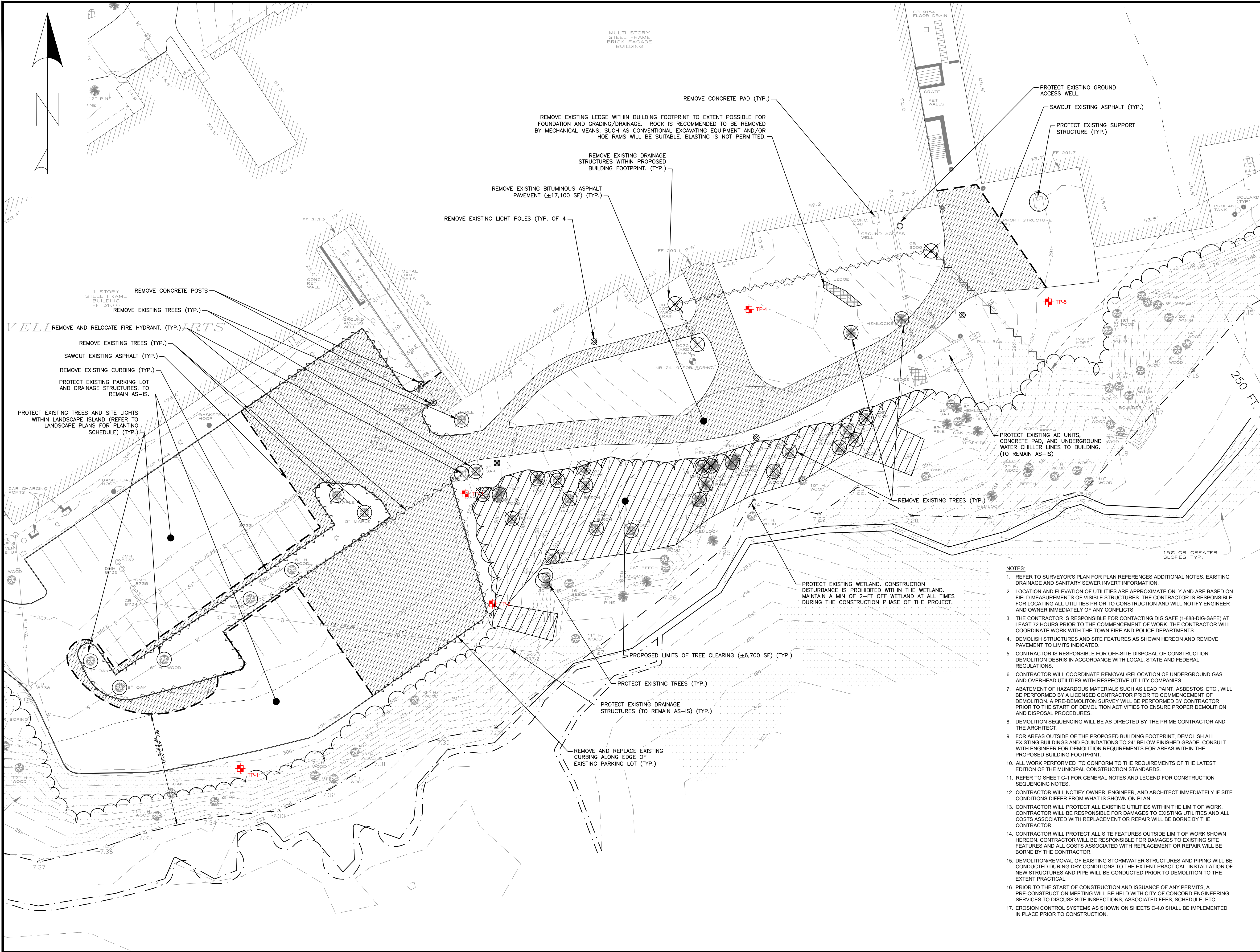
859
LICENSE NO. 9/16/25
DATE

NO.	DATE	REVISION



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ST. PAUL'S SCHOOL
325 PLEASANT ST CONCORD NH 03301
PROJECT: MAP 724Z LOT 1-10A
LOCATION: DUNBARTON RD CONCORD NH
GRAPHIC SCALE
0' 40' 80'
1" = 40'
DATE: AUG 8, 2025
JOB NO.: 624.156
SHEET S-5



nobis

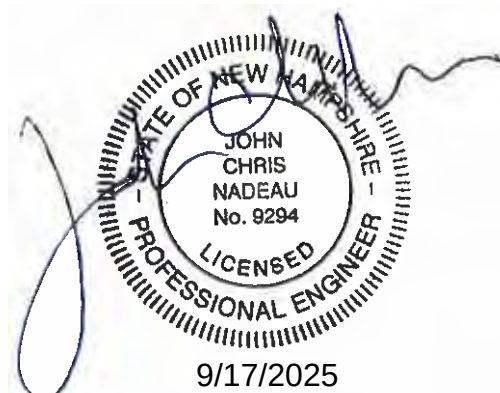
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ST. PAUL'S SCHOOL
NEW SQUASH CENTER

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

OWNER/APPLICANT:
ST. PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040

Sasaki Project No: 250018.00

Drawn By: NOBIS - MGD/CMB

Checked By: NOBIS - JCN/NCP

Approved By: NOBIS - JCN

Issue Date: 09.17.2025



SHEET TITLE

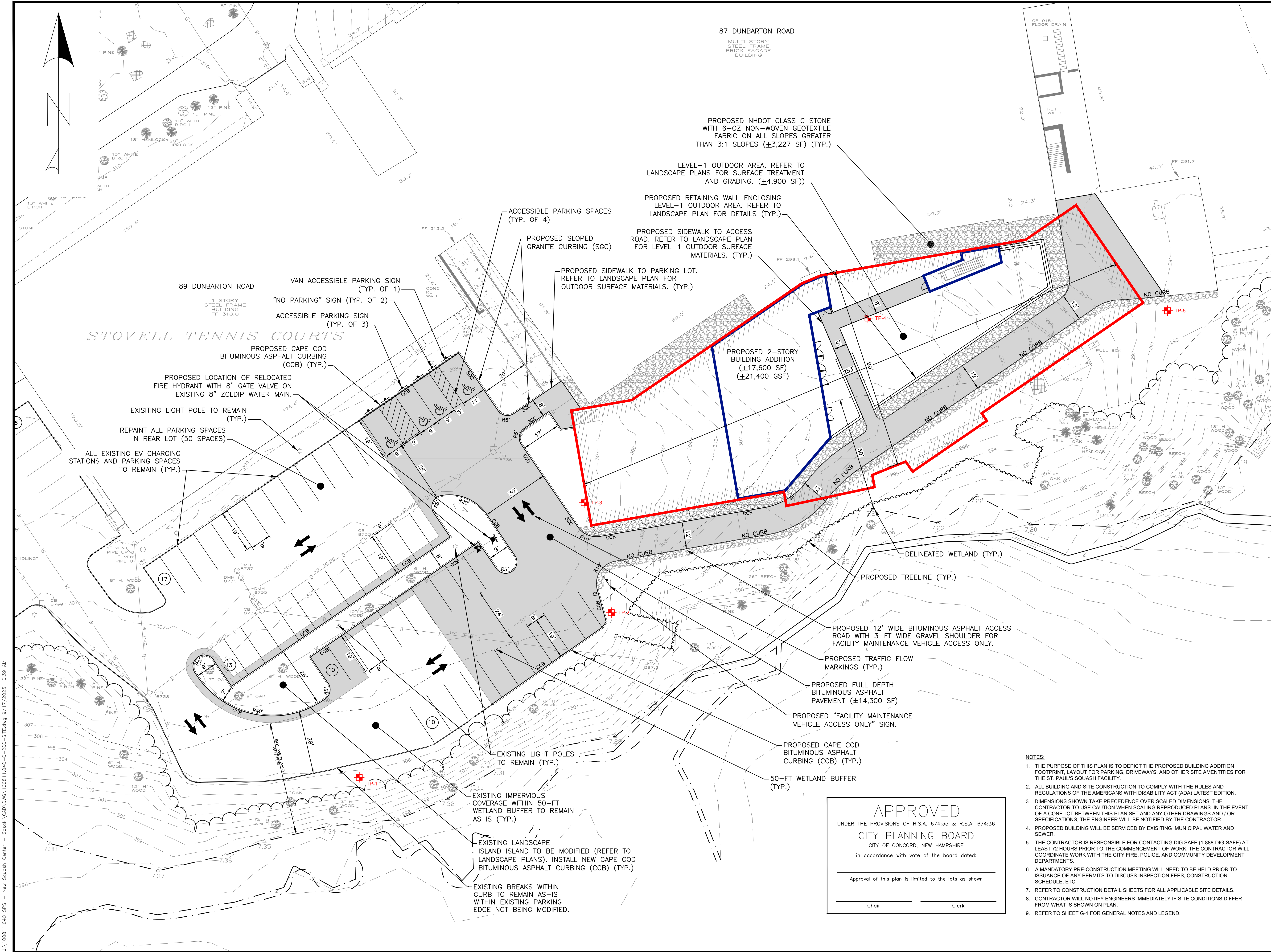
DEMOLITION
PLAN

SHEET

C-1

C-2.0

14. THE PROJECT IS TO BE CONSTRUCTED IN ONE PHASE.
15. THE PROJECT AREA DOES NOT FALL WITHIN WITHIN THE 100 YEAR FLOOD HAZARD AREA AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR THE CITY OF CONCORD MA # 33013030503E, WITH EFFECTIVE DATE APRIL 19, 2010.
16. THE WETLANDS SHOWN HEREIN WERE DELINEATED IN THE FIELD UNDER SUPERVISION OF JOHN J. ST. JOHN, CWS #221, IN JULY 2024 IN ACCORDANCE WITH ENLWD #08.01.
17. THE UNDERGROUND UTILITIES DEPICTED HEREIN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND PLOTTED FROM EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES DEPICTED COMPREHENSIVELY. THE SURVEYOR HAS NOT INVESTIGATED OR ABANDONED THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS CLOSE AS POSSIBLE TO THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND PORTION OF THE UTILITIES. ALL CONTRACTORS SHOULD NOTIFY, IN WRITING, ANY UTILITY COMPANY AND APPROPRIATE GOVERNMENTAL AGENCIES PRIOR TO EXCAVATION WORK.
18. FIRE PROTECTION DESIGN SHALL CONFORM TO THE GUIDELINES PROVIDED BY THE CITY OF CONCORD FIRE DEPARTMENT. THE CITY OF CONCORD FIRE DEPARTMENT FIRE HYDRANTS SHALL BE PROVIDED AT A MAXIMUM OF 600 FOOT INTERVALS ALONG WATER MAINS, SO THAT NO BUILDING IS FURTHER THAN 300 FEET FROM A HYDRANT. WATER MAINS SHALL BE LOOPED WHEREVER FEASIBLE. IF A WATER LINE CANNOT BE LOOPED, IT SHALL BE TERMINATED AT A DEAD END DUE TO GRADE, OWNERSHIP, OR APPROVED CONSTRUCTION PHASING. THE WATER LINE SHALL TERMINATE WITH A FIRE HYDRANT.
19. ALL SERVICE CONNECTIONS SHALL BE VALVED TO FACILITATE THE ISOLATION OF EACH USE, TENANT OR SECTION OF PIPELINE BETWEEN SERVICE CONNECTIONS ON THE SAME MAIN. THE CITY OF CONCORD FIRE DEPARTMENT FIRE HYDRANT SYSTEM IS A CALLED FOR IN SECTION 23. WATER SUPPLY OF THE CITY OF CONCORD SUBDIVISION REGULATIONS.
20. ALL USES PROPOSED WITHIN A DEVELOPMENT SHALL BE REQUIRED TO CONFORM TO THE APPLICABLE STANDARDS FOR AUTOMATIC FIRE SUPPRESSION SYSTEMS AND TO BE INSTALLED IN ACCORDANCE WITH THE CITY OF CONCORD FIRE DEPARTMENT REQUIREMENTS FOR FIRE SUPPRESSION SYSTEMS.
21. NO EASEMENTS, COVENANT, OR SELF-IMPOSED RESTRICTIONS EXIST FOR THE SITE.
22. THE SITE DOES NOT FALL WITHIN THE AQUIFER PROTECTION DISTRICT.
23. THE SITE DOES NOT FALL WITHIN IN THE FLOOD HAZARD OVERLAY DISTRICT OF THE MERRIMACK RIVER F1 DISTRICT.
24. A PORTION OF THE SITE FALLS WITHIN THE SHORELAND PROTECTION (SP) OVERLAY DISTRICT. NO DEVELOPMENT IS PROPOSED WITHIN THIS AREA.
25. THERE ARE NO PUBLIC SPACES, PARKS, OR HISTORIC STRUCTURES ON SITE.
26. THERE ARE NO WET OR SATURATED SOILS OR SEPTIC SYSTEMS IN THE VICINITY THAT THE SURVEYOR IS AWARE OF.
27. PROPOSED BUILDING ADDITION WILL BE CONNECTED INTERNALLY TO THE EXISTING A/C WATER AND SEWER SERVICES. NO NEW UTILITY CONNECTION SERVICES ARE PROPOSED.
28. ROOF TOP MECHANICAL EQUIPMENT IS PROPOSED.
29. GROUND MOUNTED MECHANICAL EQUIPMENT IS NOT PROPOSED.
30. NO OUTSIDE STORAGE AREAS ARE EXISTING OR PROPOSED.
31. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.
32. NO EXTERNAL SOLID WASTE DISPOSAL FACILITIES ARE EXISTING OR PROPOSED AND THE EXISTING SOLID WASTE FACILITY WILL BE UTILIZED.
33. SNOW WILL BE STOCKPILED ONSITE WITHIN PARKING STALLS AND BE REMOVED BY THE OWNER BY APRIL 15TH OF EACH YEAR. PERIODICALLY IF NEEDED, SNOW STORAGE IS PROHIBITED WITHIN THE 50-FT WETLAND BUFFER.



J:\100811.040 SPS - New Squash Center - Sasaki\CAD\DWG\100811.040-C-200-SITE.dwg 9/17/2025 10:39 AM
Plot Date: 9/17/2025 File: J:\100811.040 SPS - New Squash Center - Sasaki\CAD\DWG\100811.040-C-200-SITE.dwg Saved By: mdunson

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110 CHAUNCEY STREET BOSTON MA 02111 USA
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CONSTRUCTION

No.	Description	Date
DRAWING ISSUE & REVISION HISTORY		

Seal

**ST. PAUL'S SCHOOL
NEW SQUASH CENTER**

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

OWNER/APPLICANT:
ST. PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040
Sasaki Project No: 250018.00
Drawn By: NOBIS - MGD/CMB
Checked By: NOBIS - JCN/NCP
Approved By: NOBIS - JCN
Issue Date: 09.17.2025

0 20' 40'
GRAPHIC SCALE
1 INCH = 20 FEET

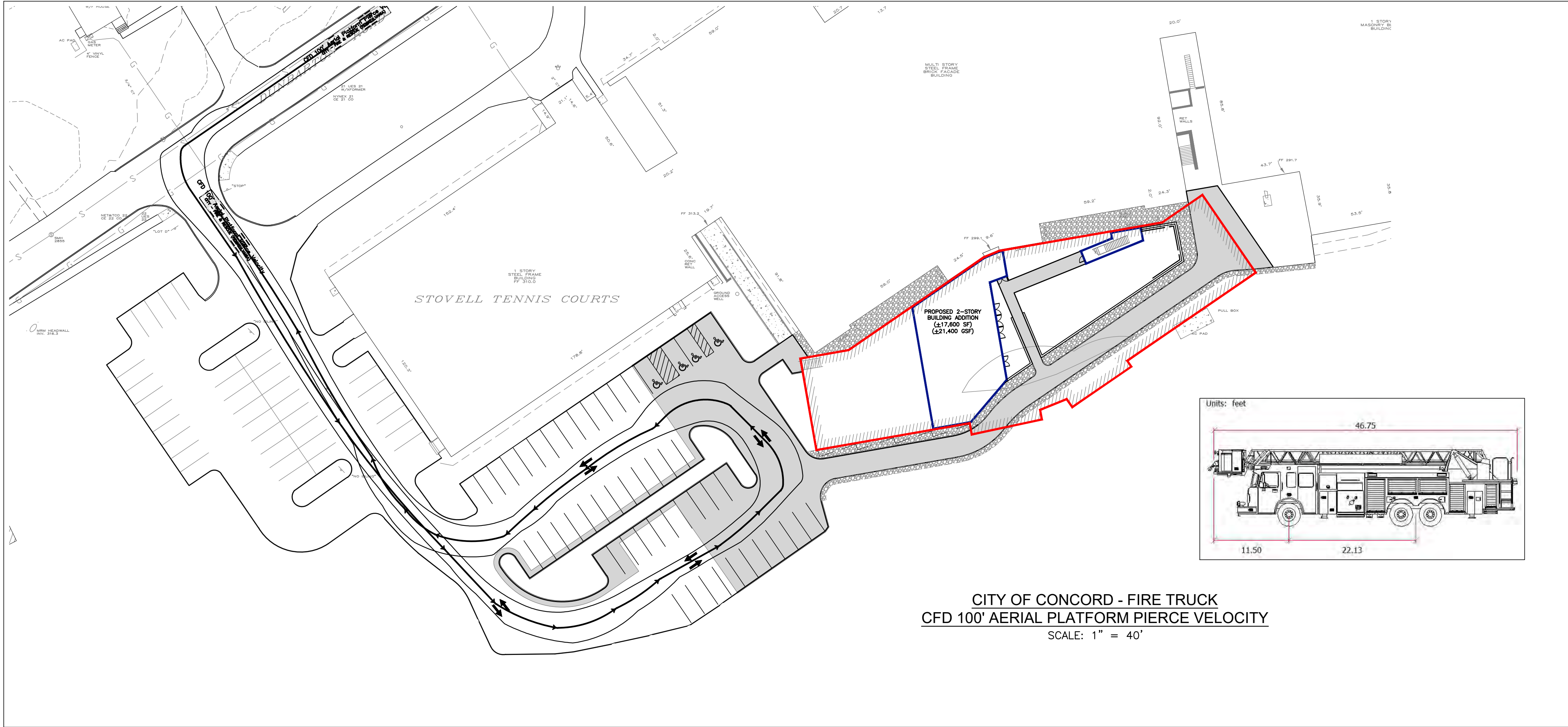
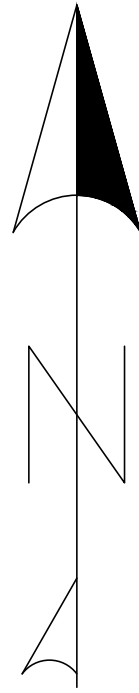
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**PROPOSED SITE
PLAN**

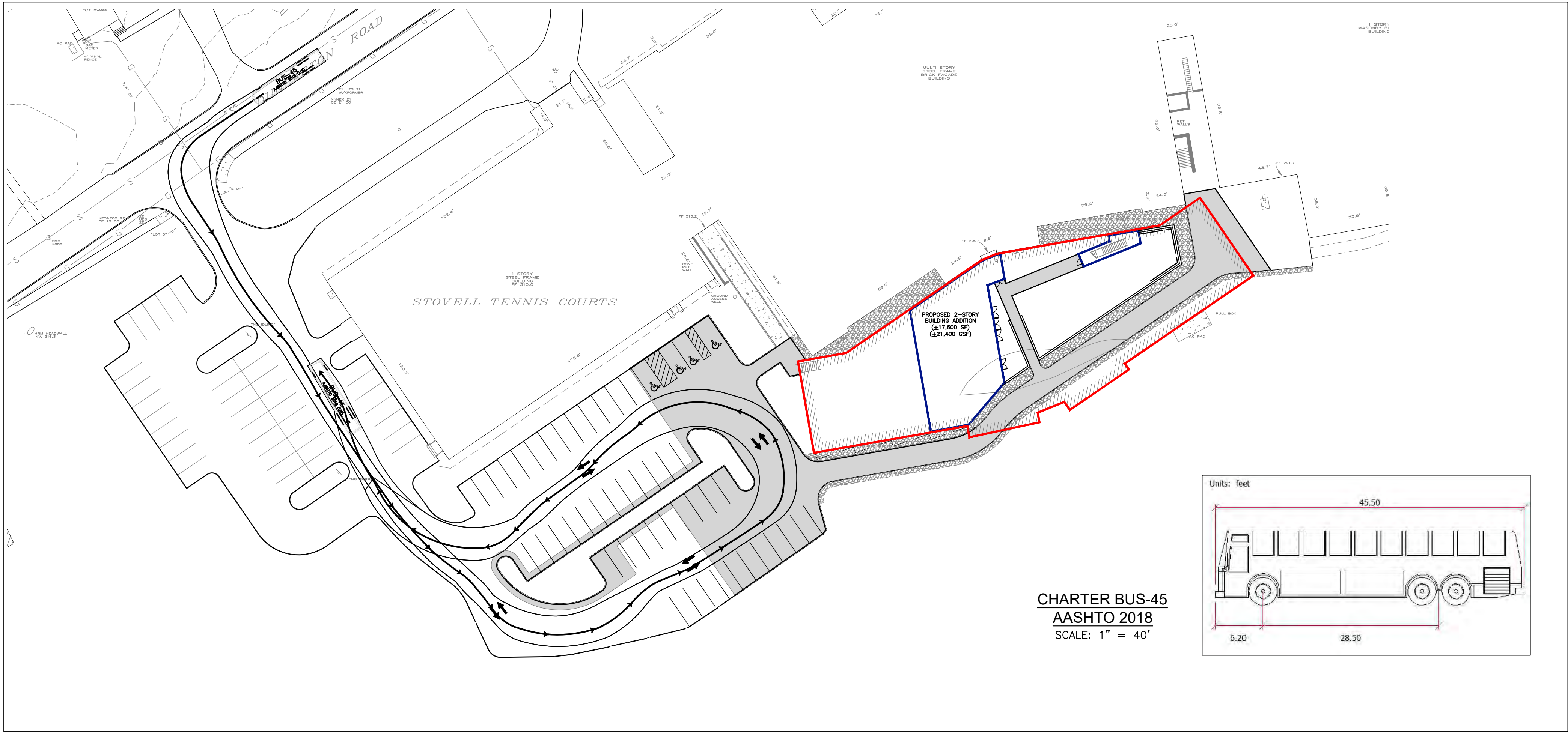
SHEET
C-2.1

- NOTES:
1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE PROPOSED BUILDING ADDITION FOOTPRINT, LAYOUT FOR PARKING, DRIVEWAYS, AND OTHER SITE AMENITIES FOR THE ST. PAUL'S SQUASH FACILITY.
 2. ALL BUILDING AND SITE CONSTRUCTION TO COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITY ACT (ADA) LATEST EDITION.
 3. 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.
 4. PROPOSED BUILDING WILL BE SERVICED BY EXISTING MUNICIPAL WATER AND SEWER.
 5. 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.
 6. A MANDATORY PRE-CONSTRUCTION MEETING WILL NEED TO BE HELD PRIOR TO ISSUANCE OF ANY PERMITS TO DISCUSS INSPECTION FEES, CONSTRUCTION SCHEDULE, ETC.
 7. REFER TO CONSTRUCTION DETAIL SHEETS FOR ALL APPLICABLE SITE DETAILS.
 8. CONTRACTOR WILL NOTIFY ENGINEERS IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 9. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.

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 lots as shown
Chair _____ Clerk _____



CITY OF CONCORD - FIRE TRUCK
CFD 100' AERIAL PLATFORM PIERCE VELOCITY
SCALE: 1" = 40'



CHARTER BUS-45
AASHTO 2018
SCALE: 1" = 40'

SASAKI

110 CHAUNCY STREET BOSTON, MA 02111 USA
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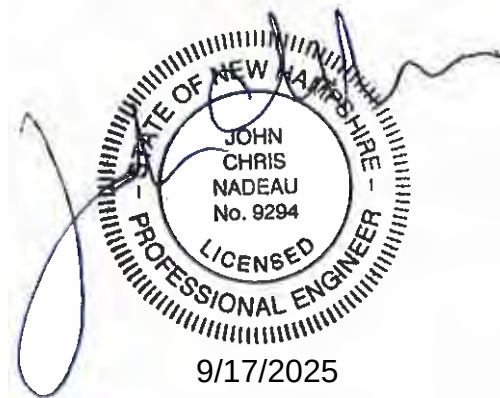
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Seal



**ST. PAUL'S SCHOOL
NEW SQUASH CENTER**

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

OWNER/APPLICANT:
ST. PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040
Sasaki Project No: 250018.00
Drawn By: NOBIS - MGD/CMB
Checked By: NOBIS - JCN/NCP
Approved By: NOBIS - JCN
Issue Date: 09.17.2025

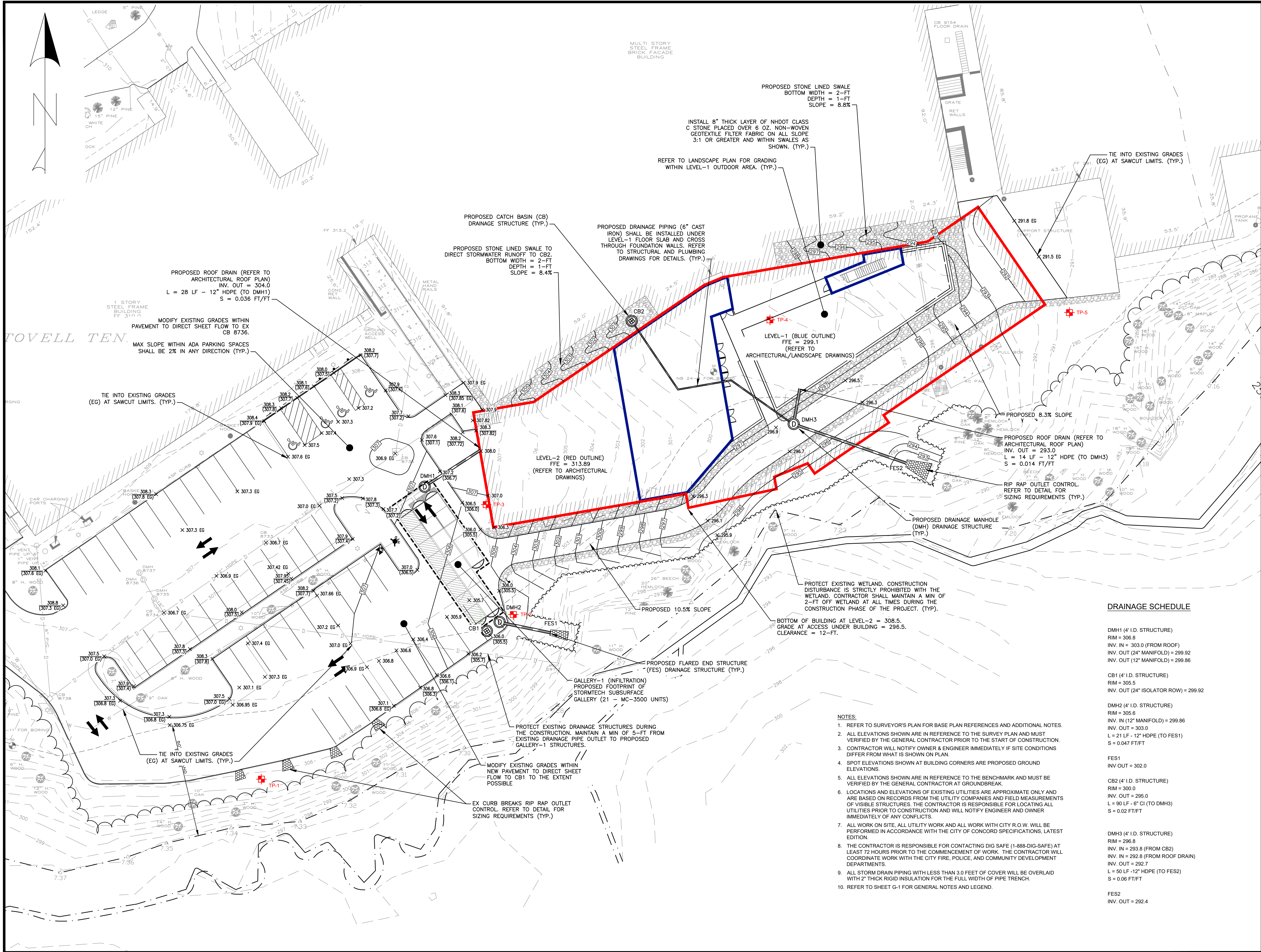
0 40' 80'
GRAPHIC SCALE
1 INCH = 40 FEET

SHEET TITLE

**TURNING
MOTION PLAN**

SHEET

C-2.2



SASAKI

110 CHAUNCEY STREET BOSTON MA 02111 USA
P 617 926 330 F 617 924 2748 W SASAKI.COM



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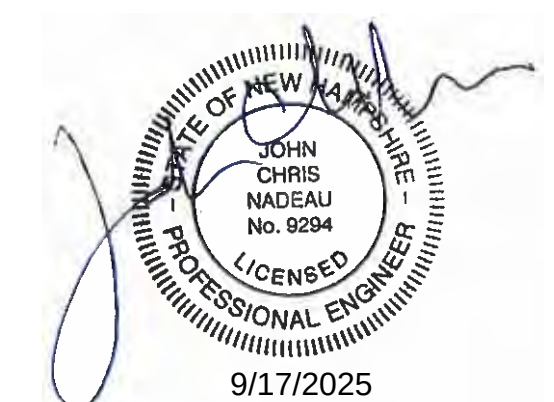
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**ST. PAUL'S SCHOOL
NEW SQUASH CENTER**

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

**TAX MAP:
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CONCORD, NEW HAMPSHIRE**

Nobis Project No: 100811.040

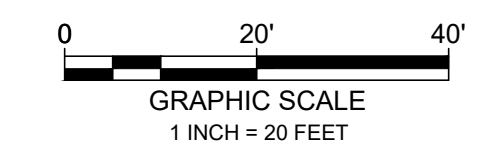
Sasaki Project No: 250018.00

Drawn By: NOBIS - MGD/CMB

Checked By: NOBIS - JCN/NCP

Approved By: NOBIS - JCN

Issue Date: 09.17.2025



SHEET TITLE

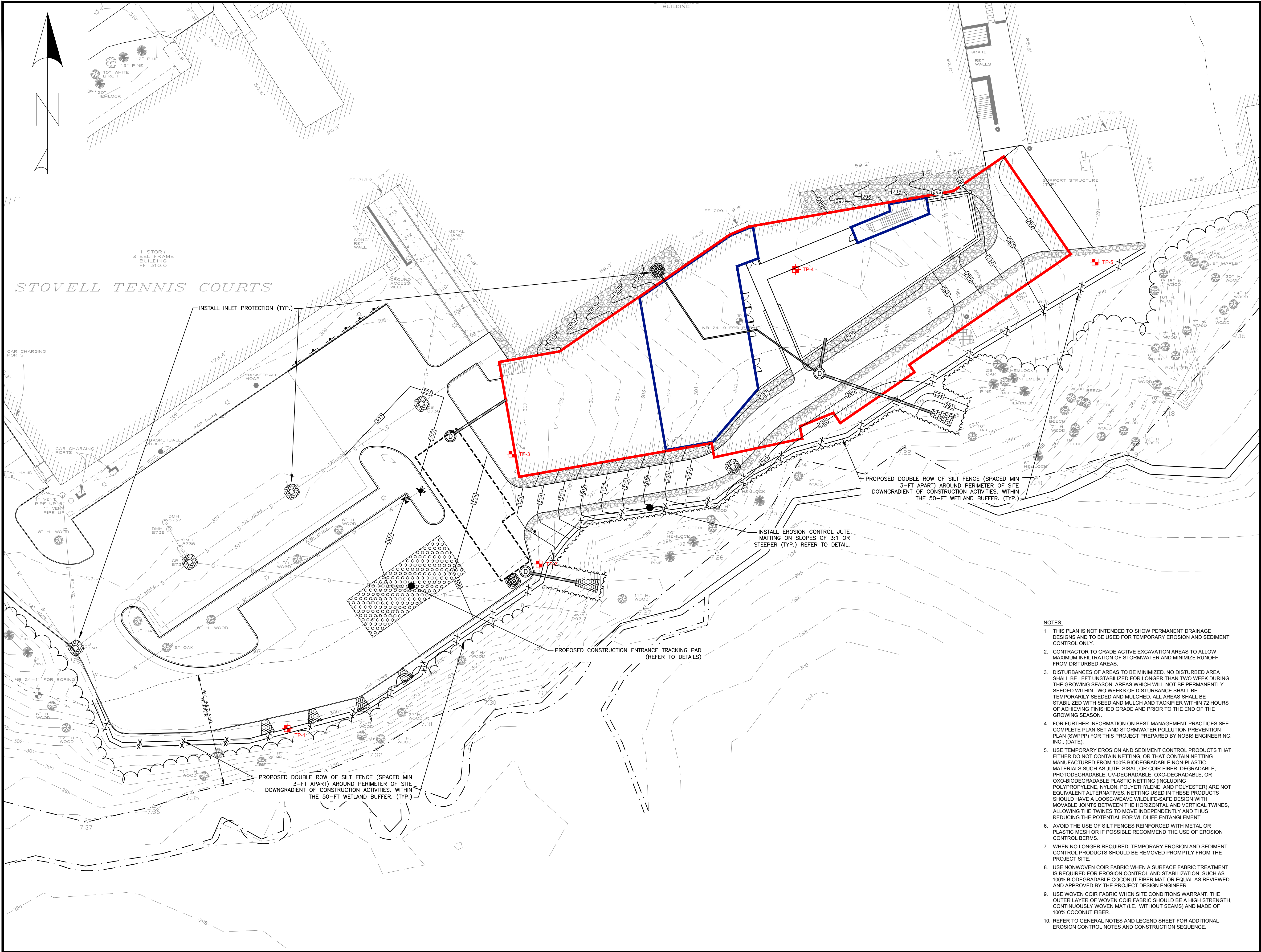
**GRADING AND
DRAINAGE PLAN**

SHEET

C-3.0

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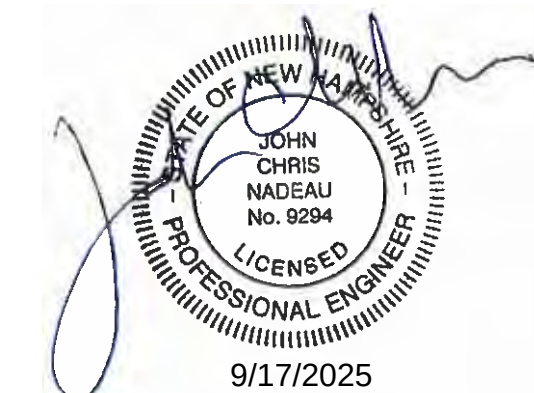
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Seal



**ST. PAUL'S SCHOOL
NEW SQUASH CENTER**

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

OWNER/APPLICANT:
ST. PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040

Sasaki Project No: 250018.00

Drawn By: NOBIS - MGD/CMB

Checked By: NOBIS - JCN/NCP

Approved By: NOBIS - JCN

Issue Date: 09.17.2025

0 20' 40'
GRAPHIC SCALE
1 INCH = 20 FEET

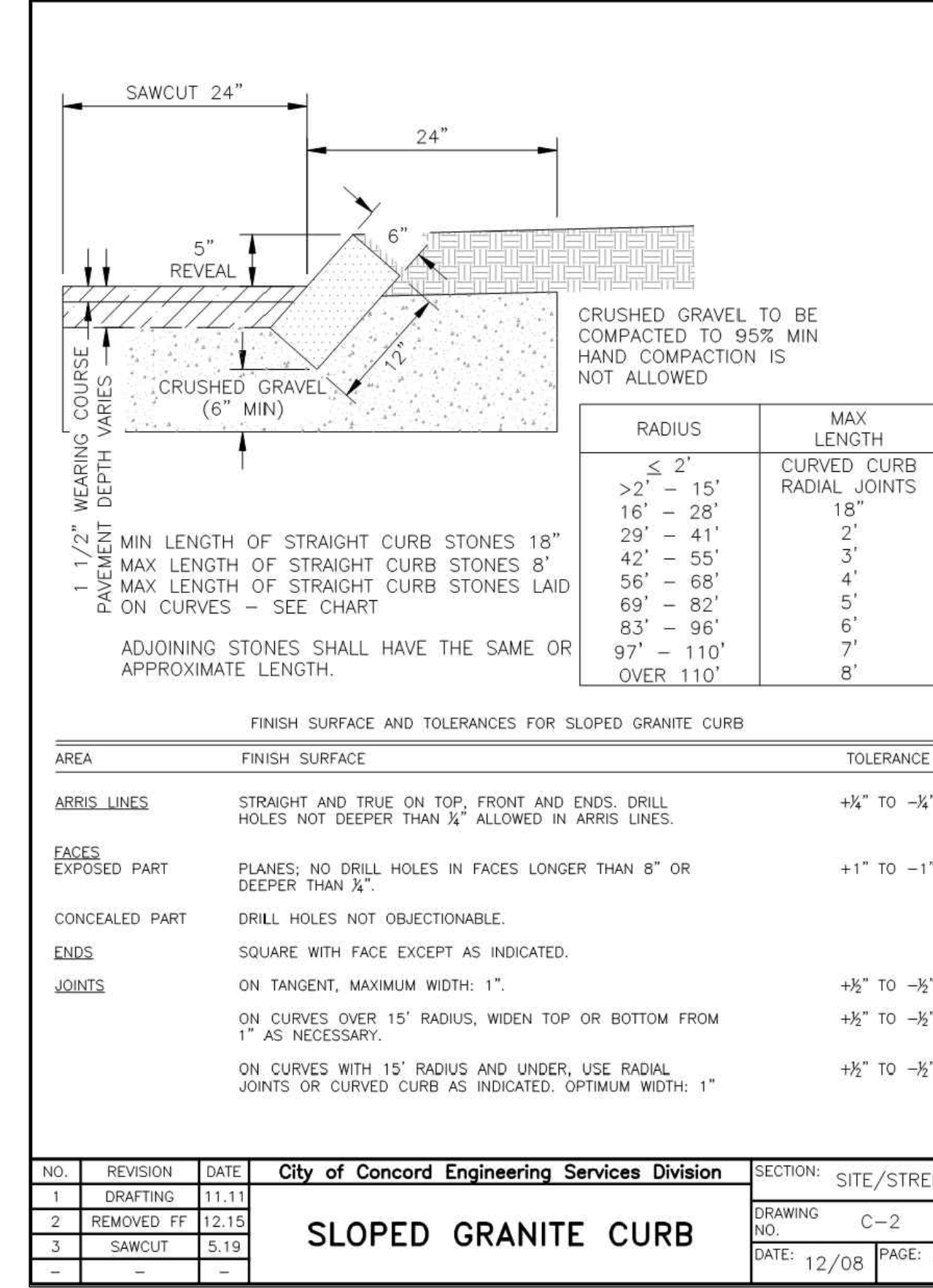
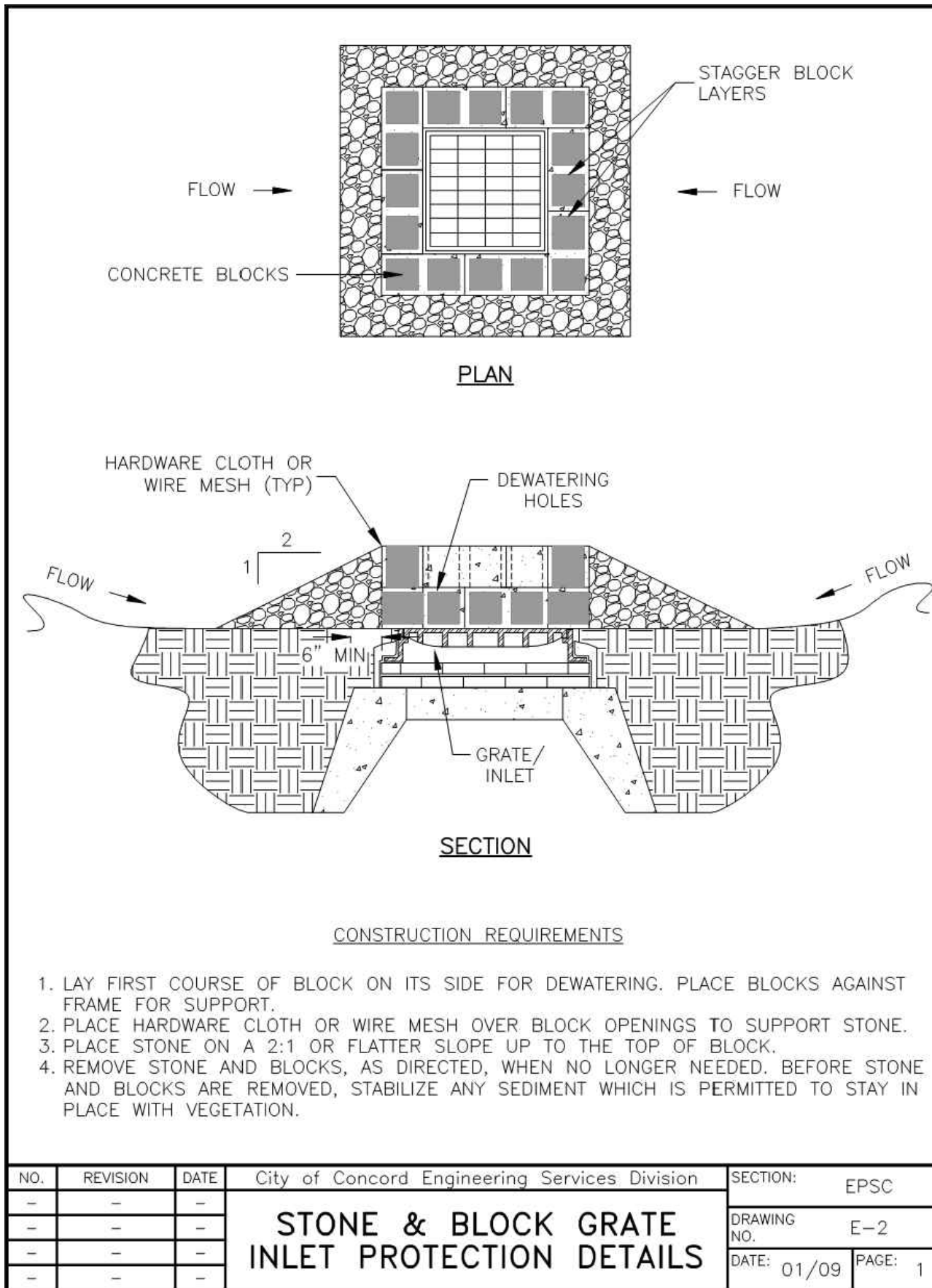
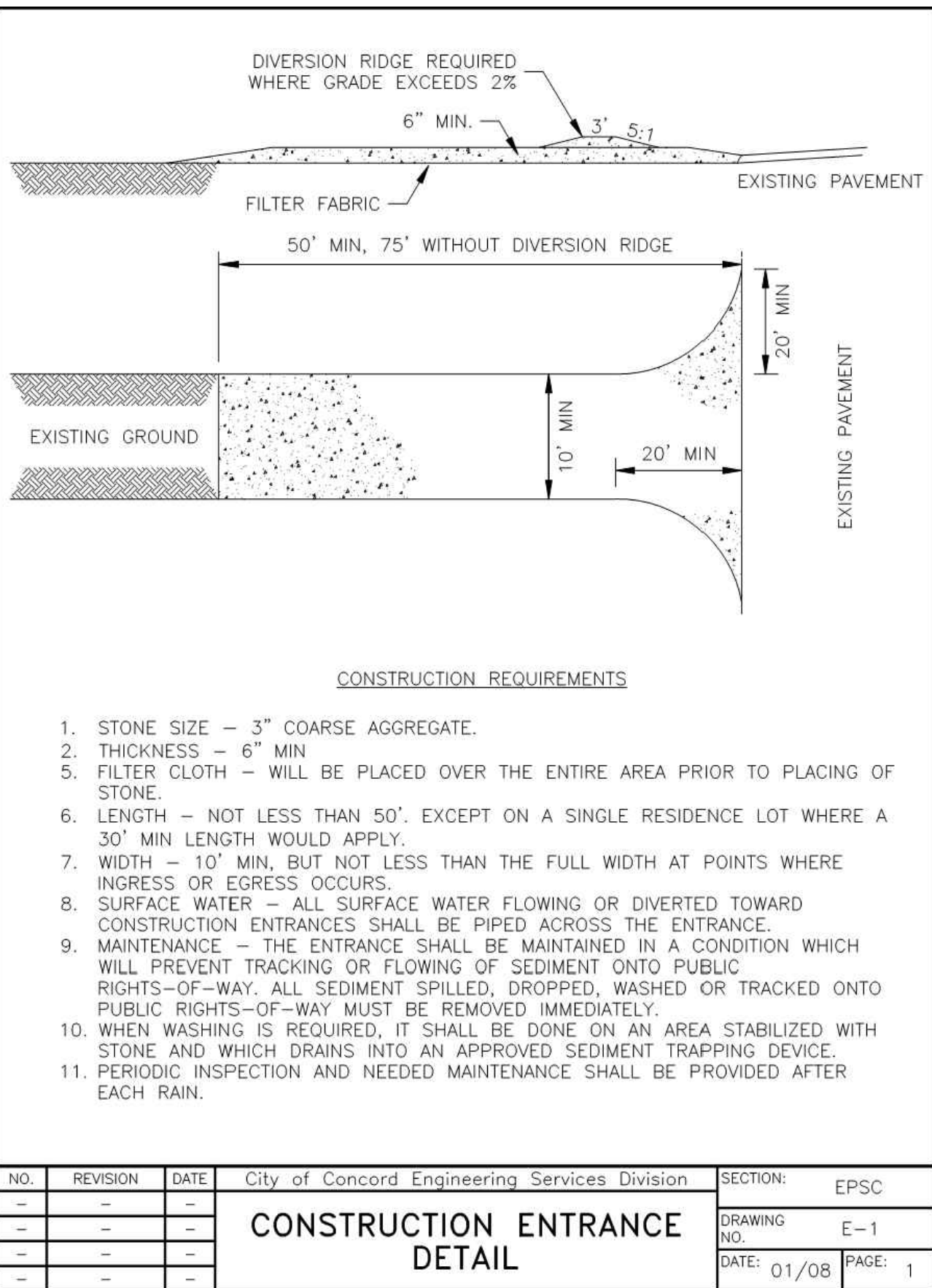
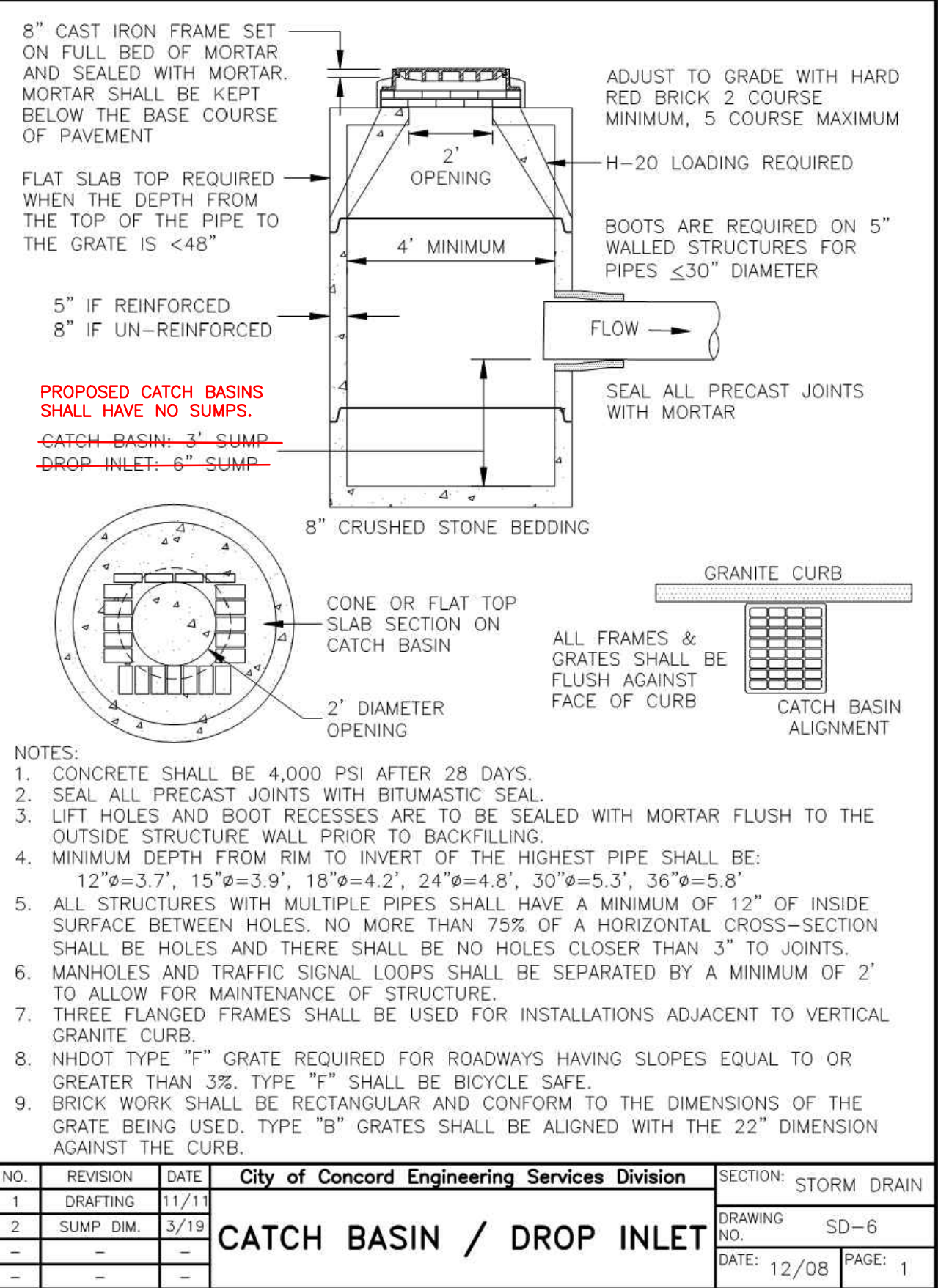
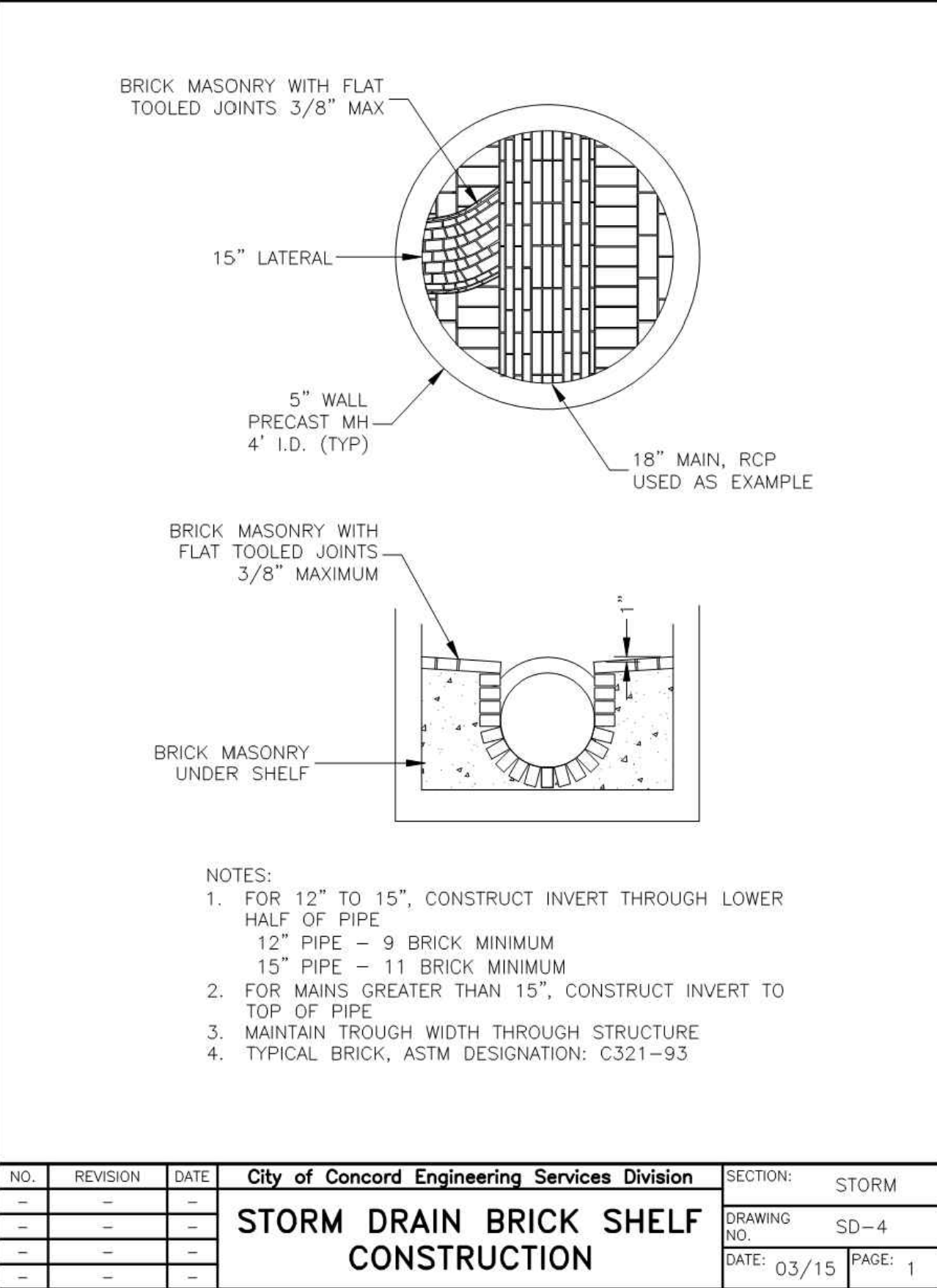
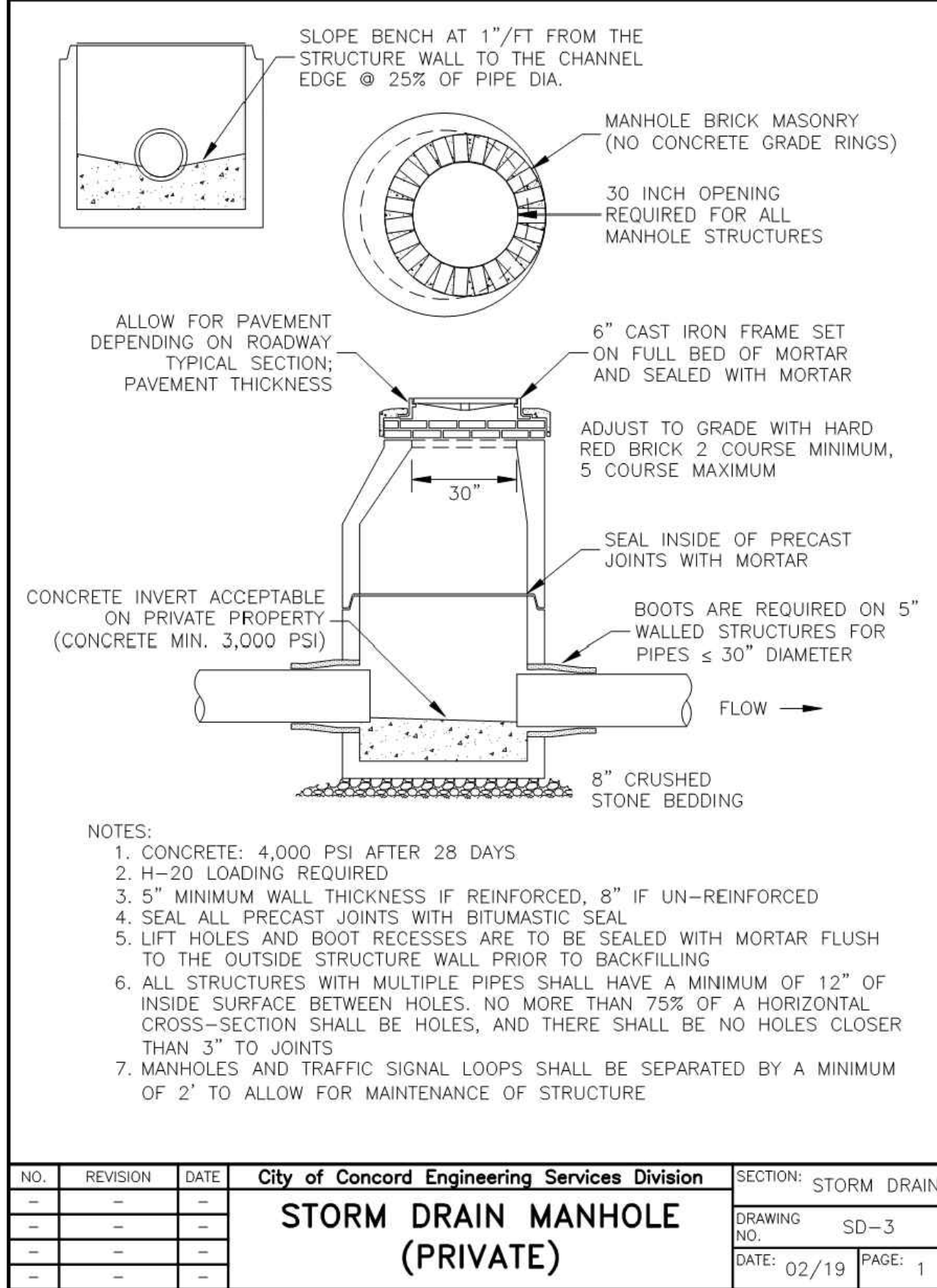
SHEET TITLE

**EROSION
CONTROL PLAN**

SHEET

C-4.0

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M.U.T.C.D. NUMBER	SPECIFICATION		MOUNTING HEIGHT	SIGN
	WIDTH	HEIGHT		
R7-8	12"	18"	7'-0"	RESERVED PARKING
R7-8A	12"	6"	6'-5"	MIN 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

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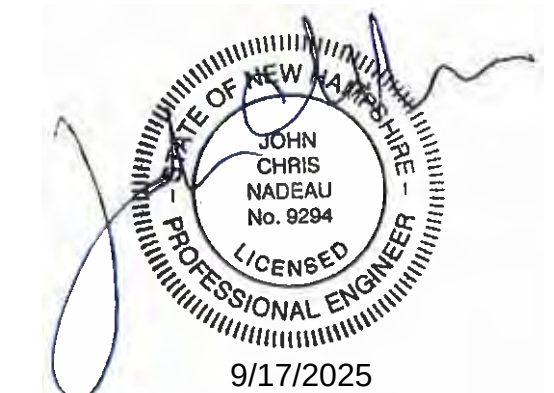
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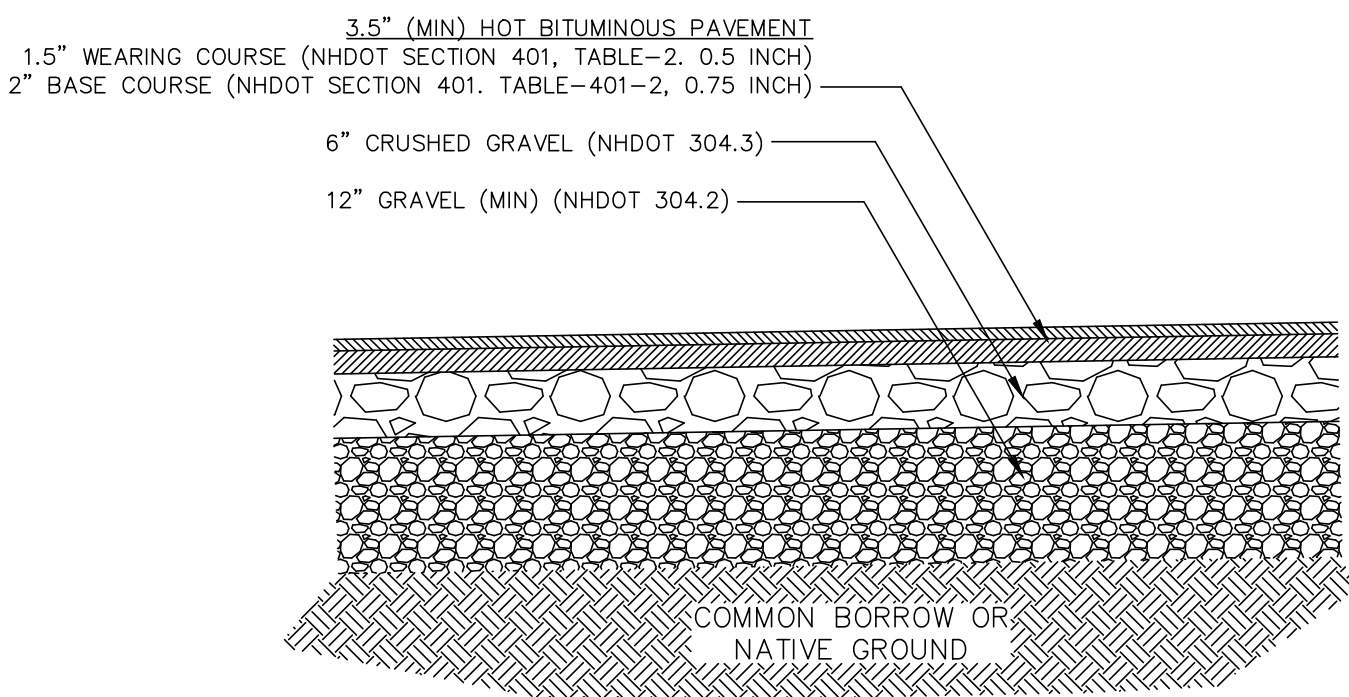
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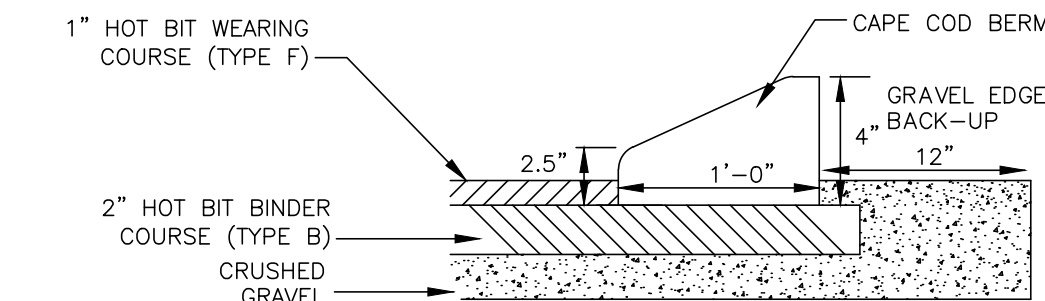
**CONSTRUCTION
DETAILS**

SHEET

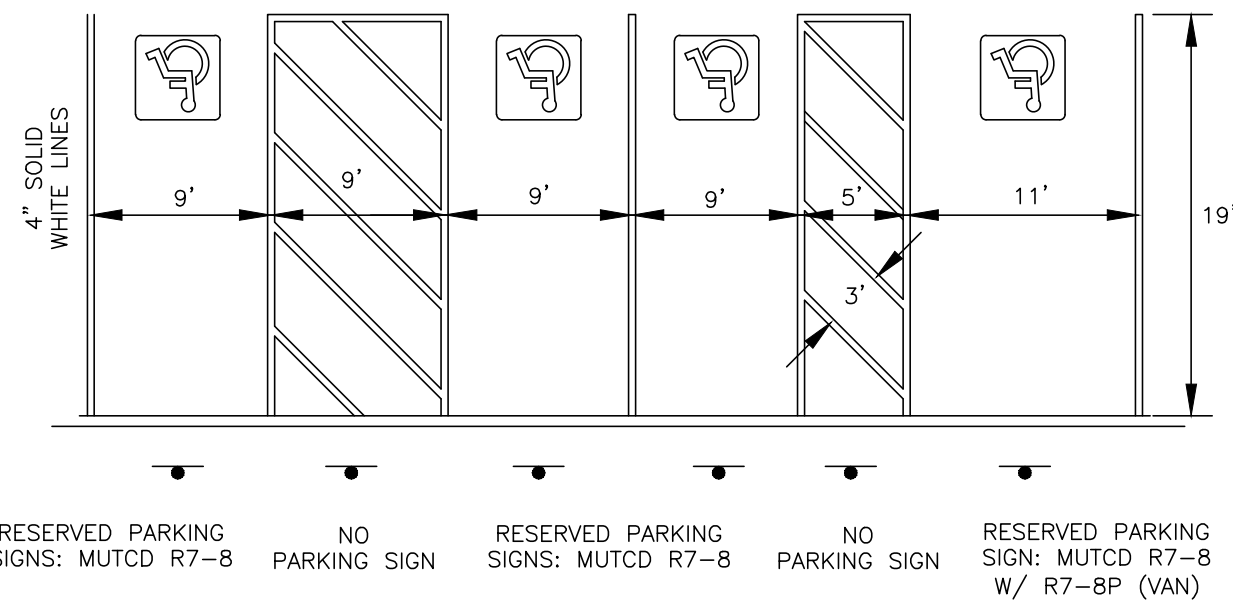
C-5.1



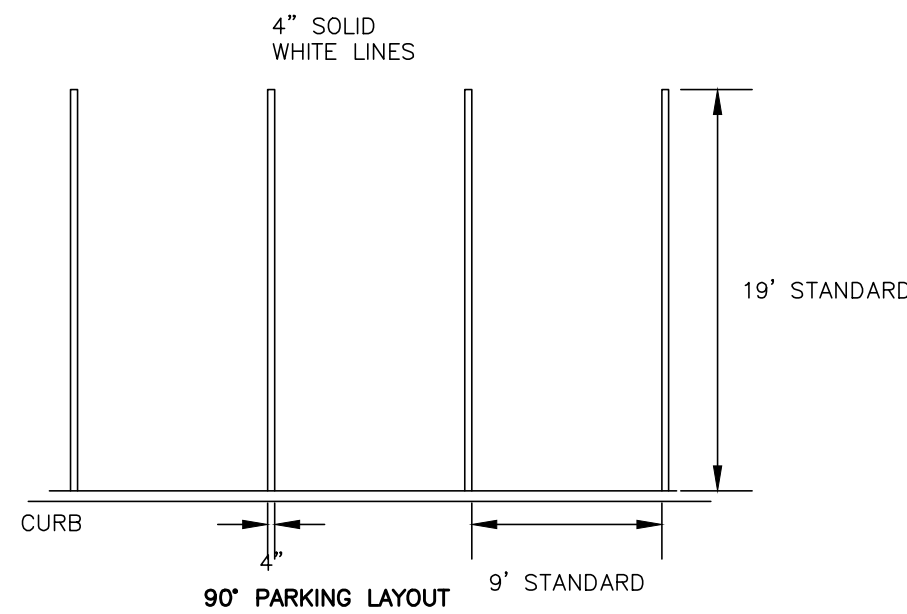
TYPICAL NEW BITUMINOUS ASPHALT PAVEMENT
NOT TO SCALE



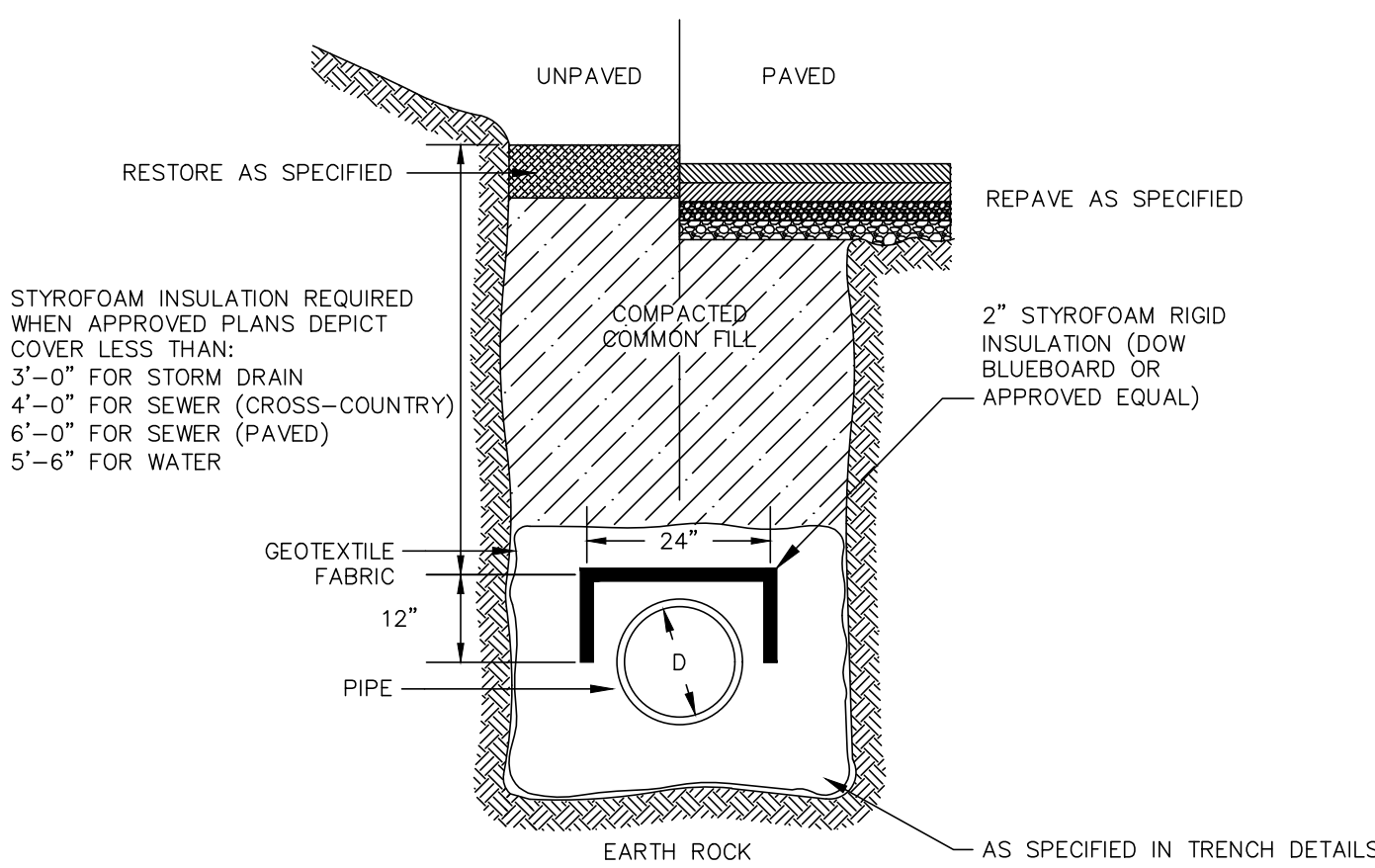
CAPE COD BERM DETAIL
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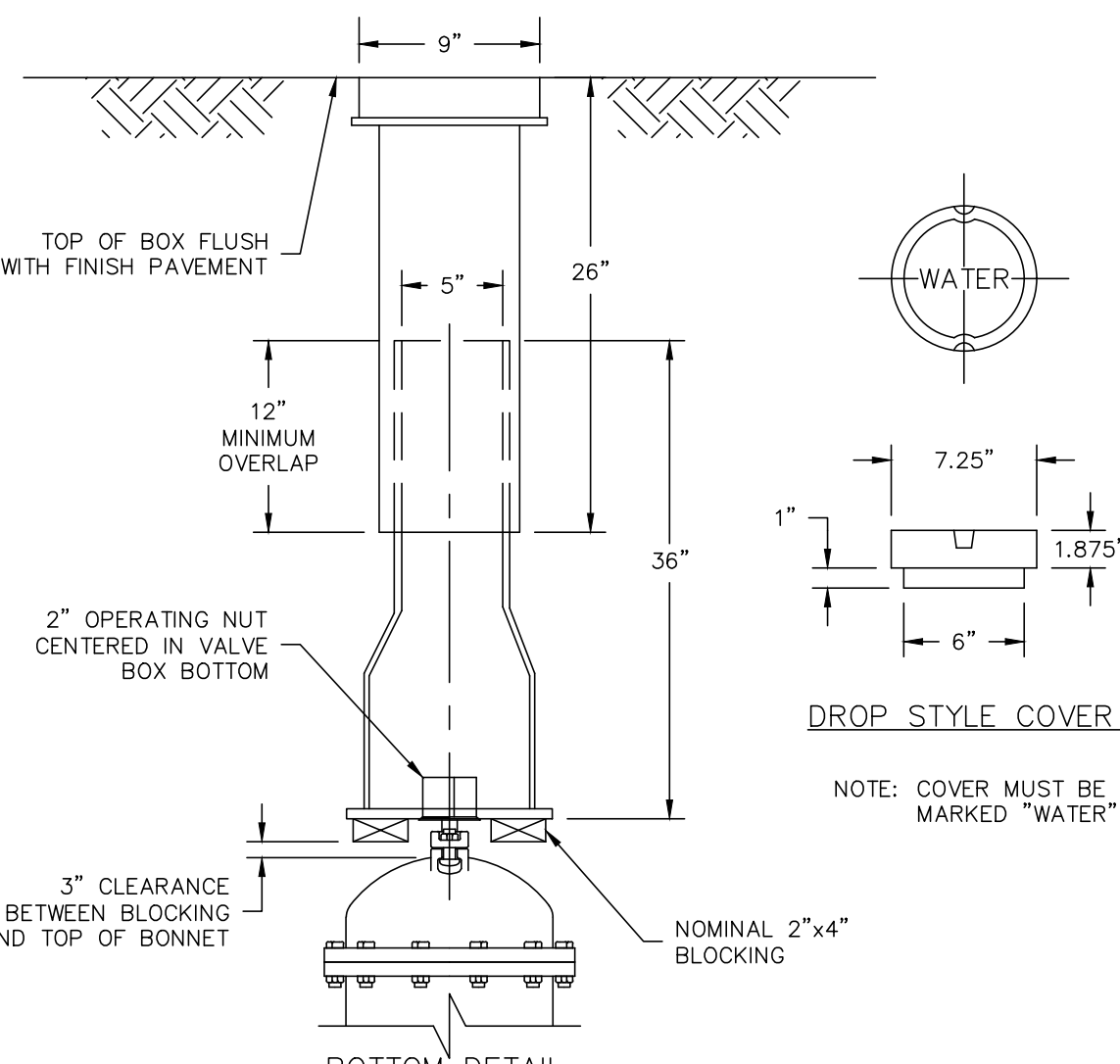
ACCESSIBLE PARKING LAYOUT



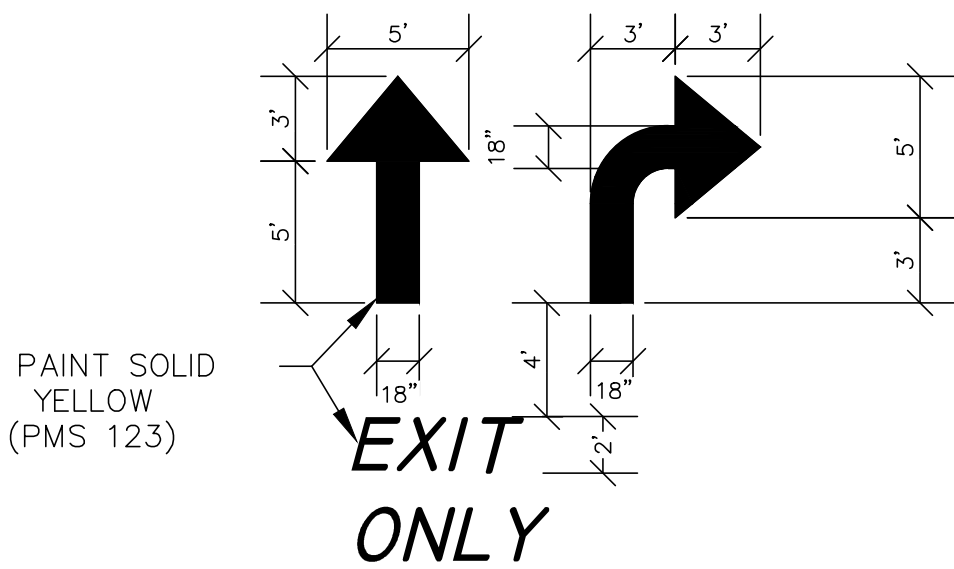
PARKING SPACE LAYOUT
NOT TO SCALE



INSULATED PIPE DETAIL
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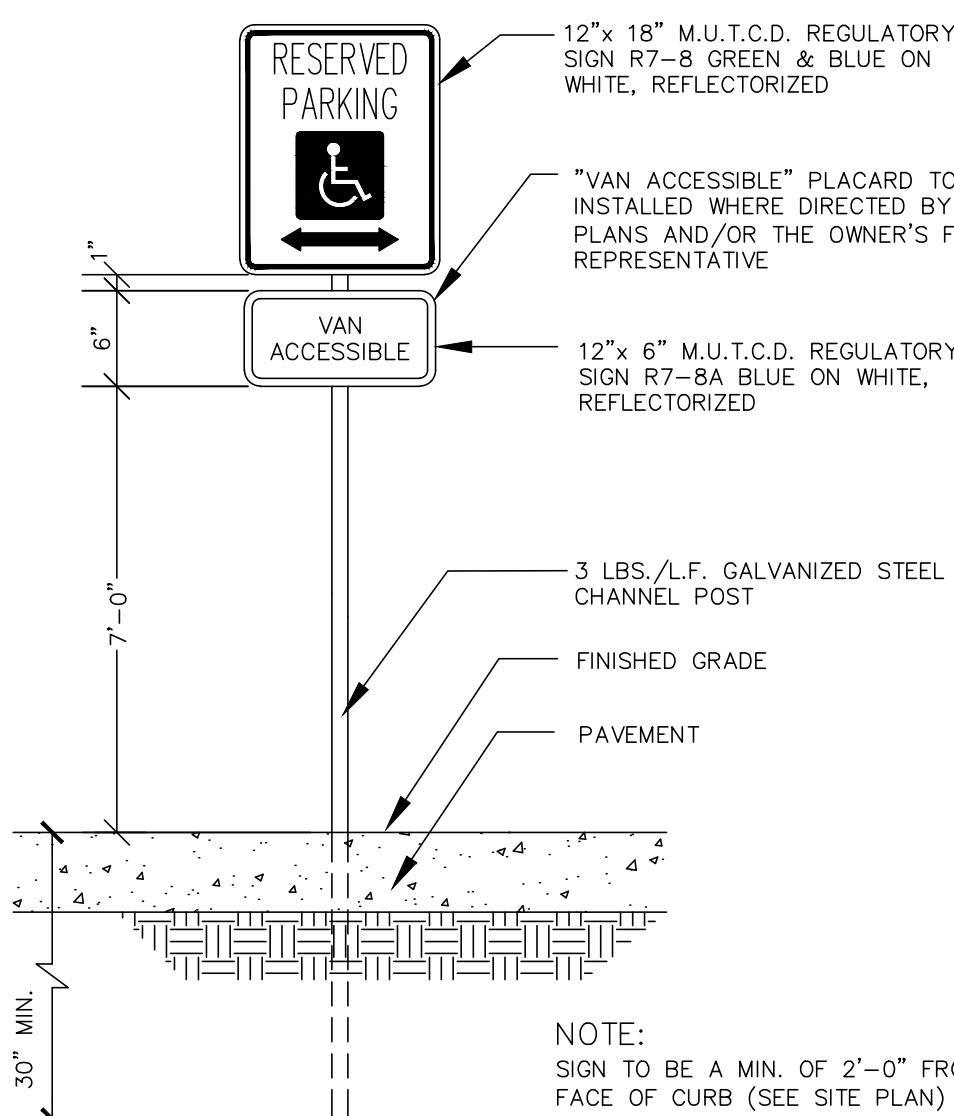


VALVE BOX DETAIL
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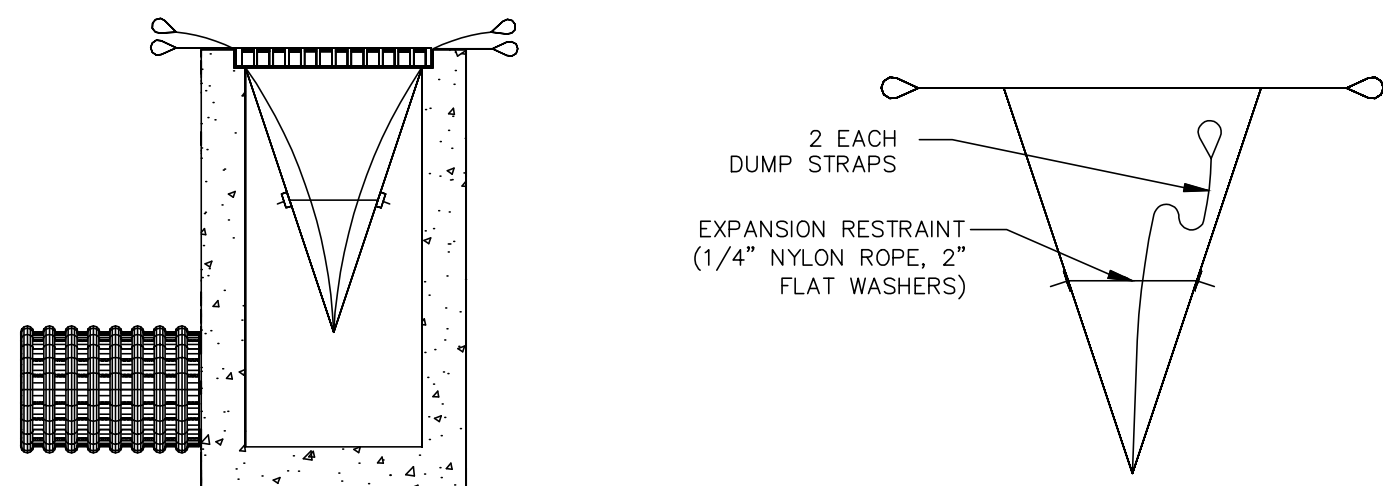


NOTE: ARROWS AND WORDS CAN BE ARRANGED IN OTHER COMBINATIONS THAN THOSE ILLUSTRATED HERE TO ACHIEVE DESIRED RESULT.

TYPICAL PAVEMENT MARKINGS
NOT TO SCALE

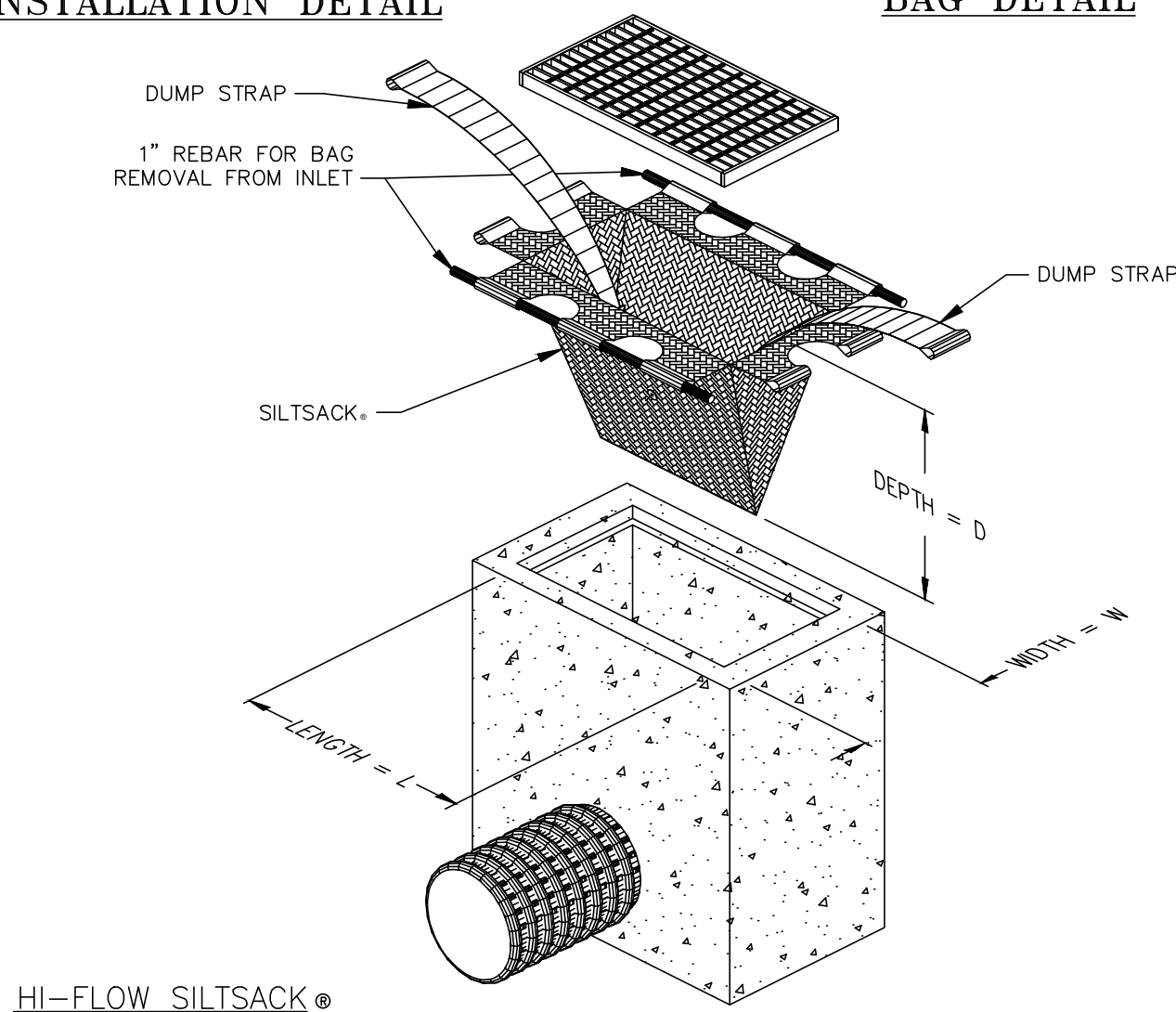


RESERVED PARKING SIGN
NOT TO SCALE



INSTALLATION DETAIL

BAG DETAIL



HI-FLOW SILTSACK ®
SPECIFICATIONS*

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

*NOTE: HIGH-FLOW SILTSACK TO BE INSTALLED ONLY AFTER PAVEMENT IS INSTALLED. PRIOR TO PAVING, COVER INLET WITH AN IMPERMEABLE WATER TIGHT BARRIER TO KEEP STORMWATER AND SEDIMENT FROM ENTERING BASIN.

HI-FLOW SILTSACK DETAIL
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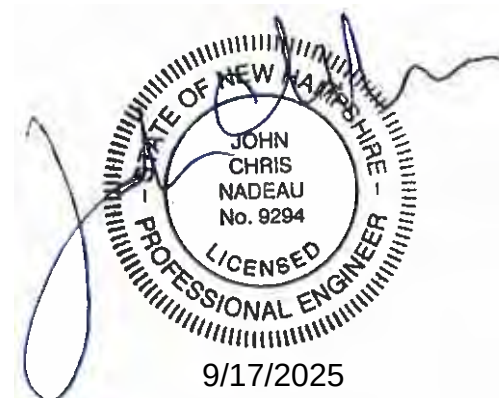
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CONCORD, NEW HAMPSHIRE

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SCALE:
AS NOTED

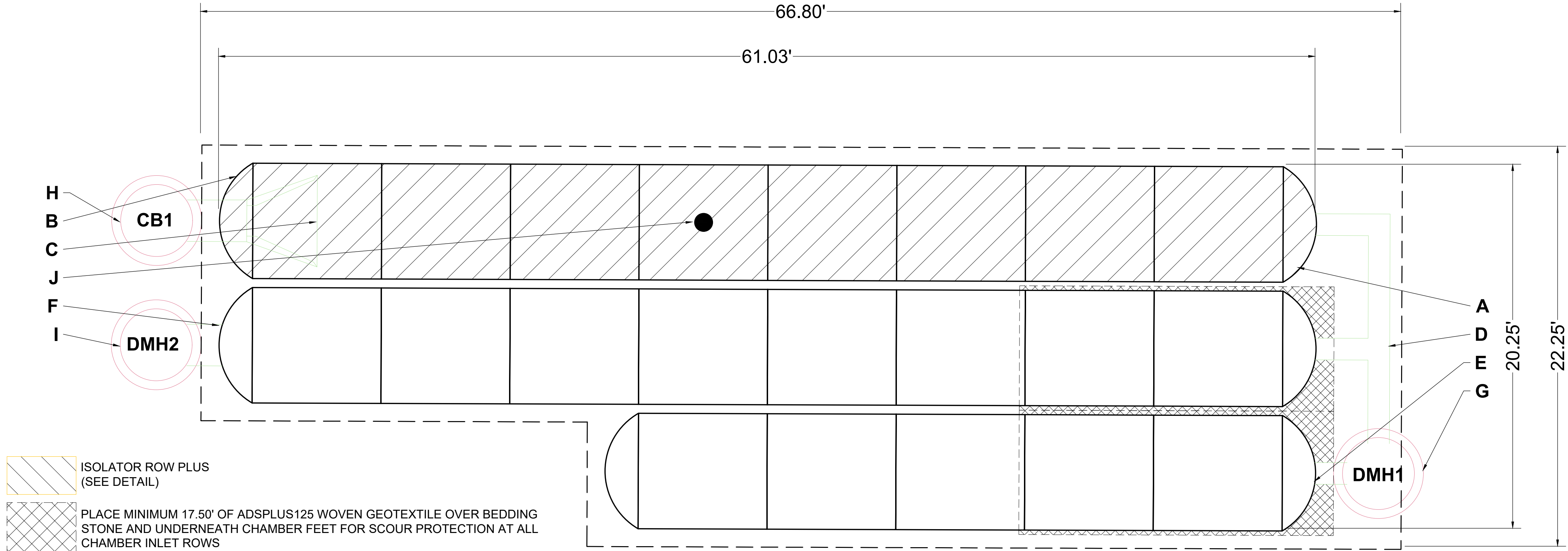
SHEET TITLE

CONSTRUCTION
DETAILS

SHEET

C-5.2

PROPOSED LAYOUT: GALLERY-1				ELEVATIONS: GALLERY-1		*INVERT ABOVE BASE OF CHAMBER			
21	STORMTECH MC-3500 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	12.50	PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW	
6	STORMTECH MC-3500 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	6.50	PREFABRICATED END CAP	A	12" BOTTOM PRE-CORED END CAP, PART#: MC3500IEPP12B / TYP OF ALL 12" BOTTOM CONNECTIONS	1.35"		
12	STONE ABOVE (in)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	6.00		B	24" BOTTOM PRE-CORED END CAP, PART#: MC3500IEPP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	2.06"		
9	STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	6.00	PREFABRICATED END CAP	C	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: MCFLAMP			
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	6.00		D	12" x 12" BOTTOM MANIFOLD, ADS N-12	1.35"		
4382	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF STONE:	5.50	FLAMP	E	12" BOTTOM CONNECTION	1.35"		
		TOP OF MC-3500 CHAMBER:	4.50	MANIFOLD	F	24" BOTTOM CONNECTION	2.06"		
		24" ISOLATOR ROW PLUS INVERT:	0.92	PIPE CONNECTION	G	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)		7.4 CFS IN	
		24" BOTTOM CONNECTION INVERT:	0.92	CONCRETE STRUCTURE	H	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)			
1338	SYSTEM AREA (SF)	12" x 12" BOTTOM MANIFOLD INVERT:	0.86	CONCRETE STRUCTURE	I	OCS (DESIGN BY ENGINEER / PROVIDED BY OTHERS)		7.0 CFS OUT	
178.1	SYSTEM PERIMETER (ft)	12" BOTTOM CONNECTION INVERT:	0.75	CONCRETE STRUCTURE	J	4" SEE DETAIL			
		BOTTOM OF MC-3500 CHAMBER:	0.00	INSPECTION PORT					
		BOTTOM OF STONE:							

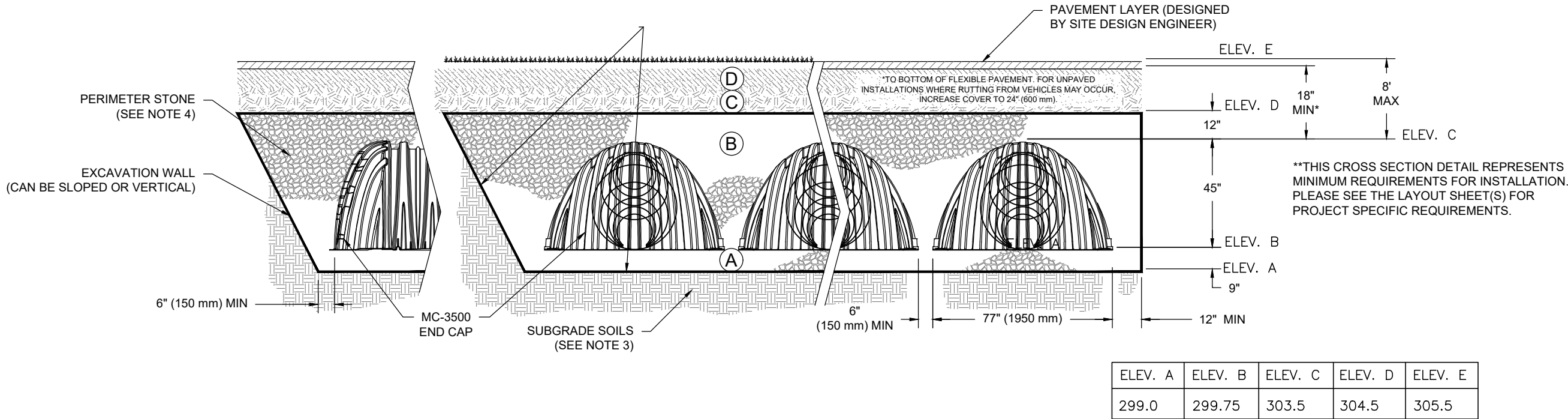


NOTES:
THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
NOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE: A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT²%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

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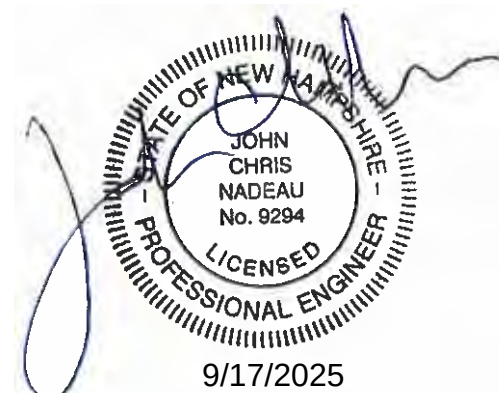
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Checked By: **NOBIS - JCN/NCP**

Approved By: **NOBIS - JCN**

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SCALE:
AS NOTED

SHEET TITLE

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DETAILS**

SHEET

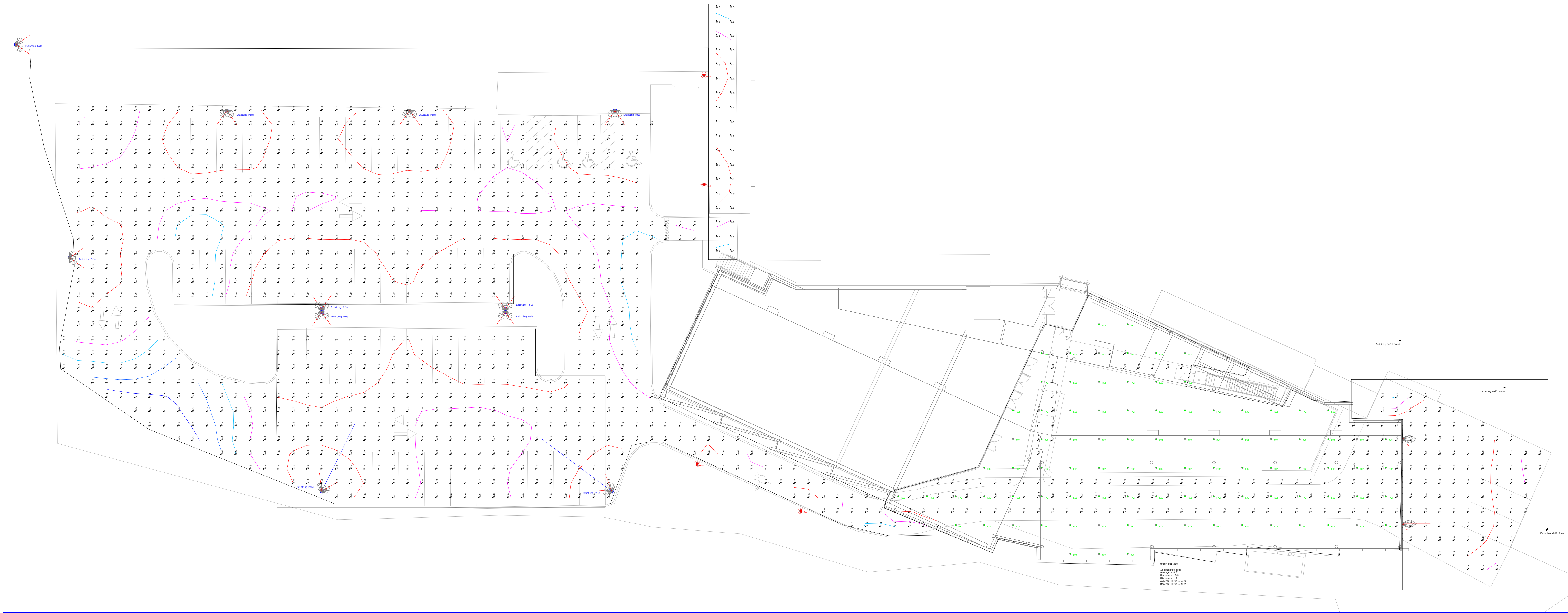
C-5.4

SCHEDULE

FX2	Under Building Exterior	4"4" aperture round recessed flanged LED wet listed downlight. Dimensions Housing: 9" Length x 4.39/64" Width x 3.169/256" Height	Standard Finish by Architect	LED	3500K	80 CRI	L90 @ 90,000h	1,282 lm	Remote	DIM	0-10V	15.0 W	EA	ELT listed for wet locations, IP66	we-eif DOC110 134-6102
FX3	Small Parking Lot	Facade mounted exterior wall luminaire with asymmetric optic. Dimensions Fixture: 8 7/8" Length x 1' - 7 1/4" Width x 4" Height	Standard Finish by Architect	LED	3500	80+ CRI	L70 @ 60,000h	6,672 lm	Integral	DIM	0-10V	61.0 W	EA	IP65	Bega Wall Luminaire - Asymmetric B24816
FX4	Exterior Path	Campus standard post-top luminaire with symmetric optic. Dimensions Fixture: 10' - 0" Pole	Standard Finish by Architect	LED	3500K	80+ CRI	L70 @ 60,000h	3,370 lm	Integral	DIM	0-10V	36.0 W	EA	IP65	Bega Pole-top Luminaire -Symmetric B77164

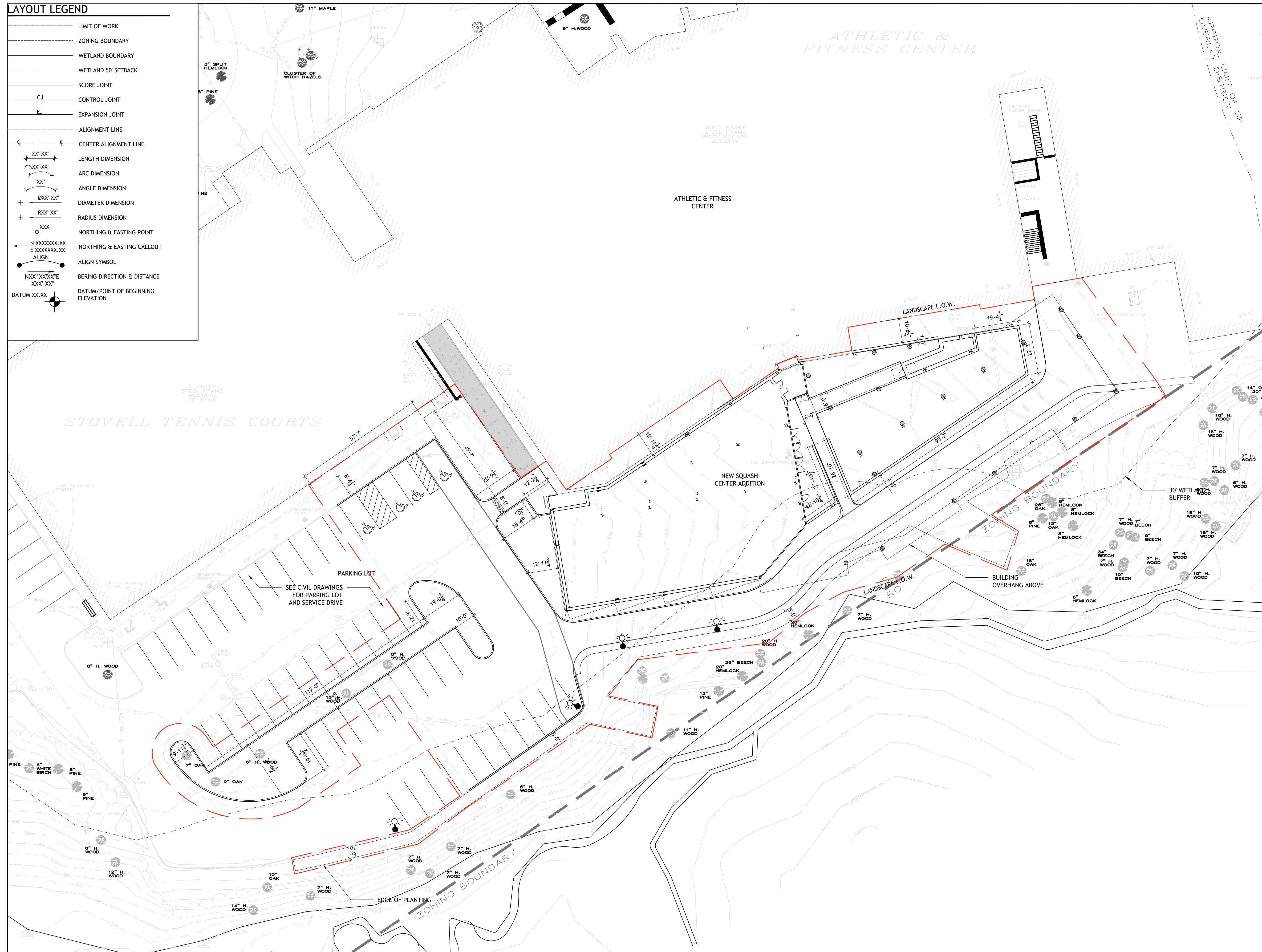
Calculation Summary

Label	Avg	Max	Min	Avg/Min	Max/Min
Parking Area - North	1.81	5.1	0.2	9.05	25.50
Parking Area - South	1.77	3.9	0.6	2.95	6.50
Ramp	1.51	3.3	0.3	5.03	11.00
Small Parking	3.22	10.0	0.5	6.44	20.00
Under-building	8.02	16.5	1.7	4.72	9.71



LAYOUT LEGEND

	LIMIT OF WORK
	ZONING BOUNDARY
	WETLAND BOUNDARY
	WETLAND 50' SETBACK
	SCORE JOINT
	CONTROL JOINT
	EXPANSION JOINT
	ALIGNMENT LINE
	CENTER ALIGNMENT LINE
	LENGTH DIMENSION
	ARC DIMENSION
	ANGLE DIMENSION
	DIAMETER DIMENSION
	RADIUS DIMENSION
	NORTHING & EASTING POINT
	NORTHING & EASTING CALLOUT
	ALIGN SYMBOL
	BEARING DIRECTION & DISTANCE
	DATUM/POINT OF BEGINNING ELEVATION



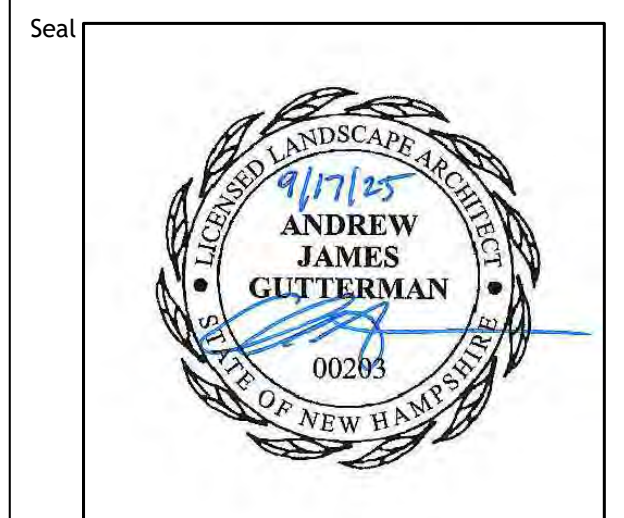
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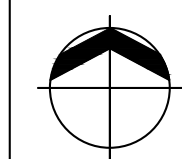
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Drawn By: SASAKI - KAF

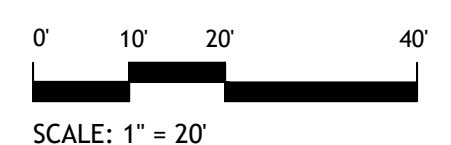
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Approved By: SASAKI - ZC

Issue Date: 09.20.2025



North
SHEET TITLE



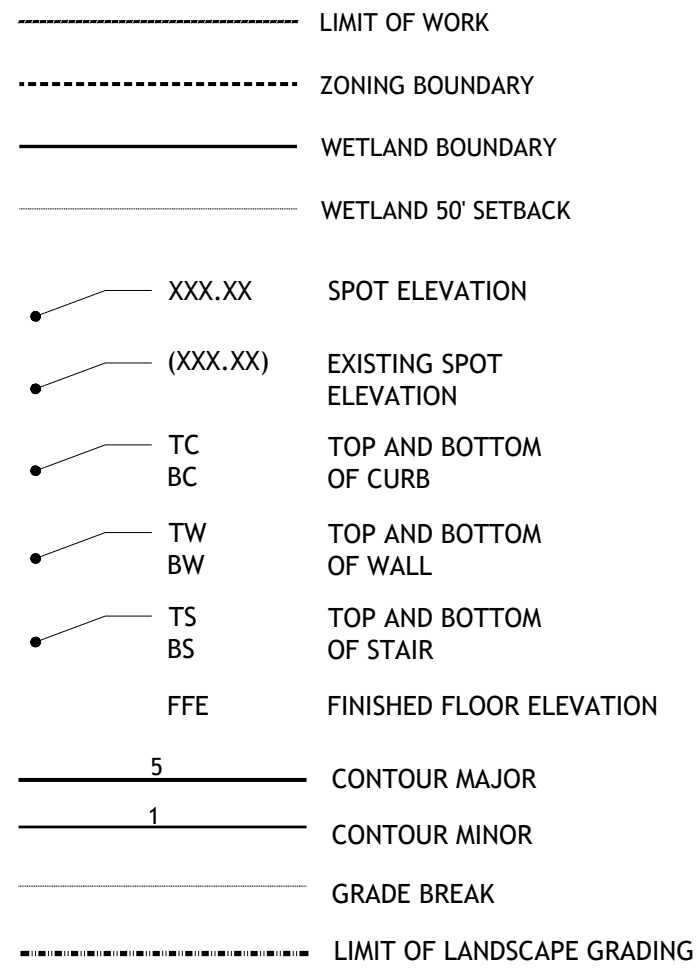
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SHEET TITLE

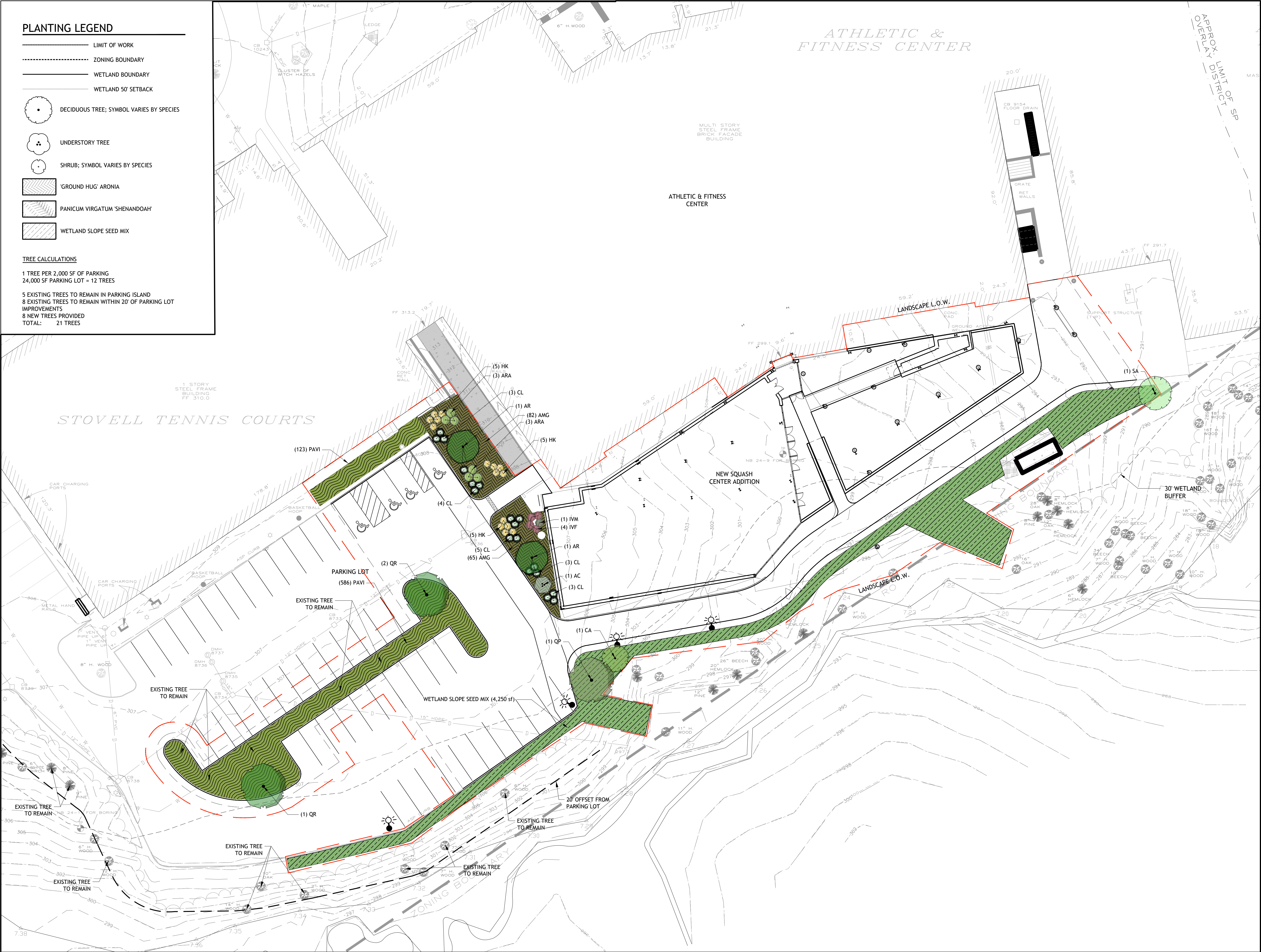
LANDSCAPE LAYOUT

SHEET

L2-01



L4-01



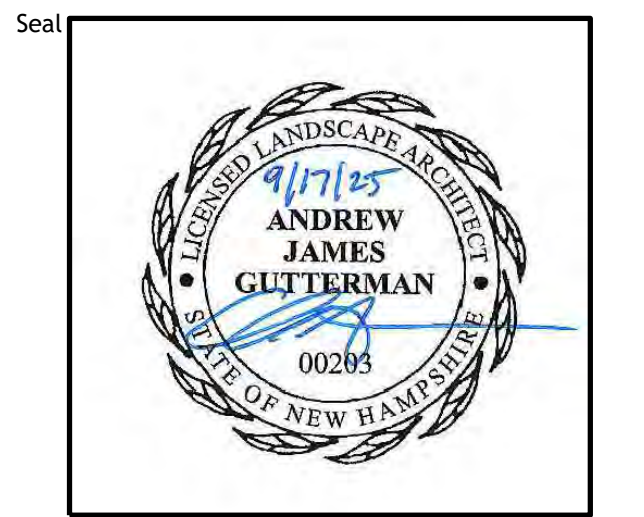
SASAKI

110 CHAUNCY STREET BOSTON MA 02111 USA
P 617 926 330 F 617 924 2748 W SASAKI.COM

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FOR
CONSTRUCTION

No.	Description	Date
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DRAWING ISSUE & REVISION HISTORY



**ST. PAUL'S SCHOOL
NEW SQUASH CENTER**

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

OWNER/APPLICANT:
ST. PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040

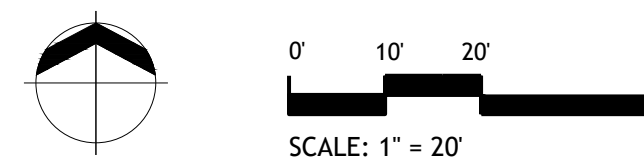
Sasaki Project No: 250018.00

Drawn By: SASAKI - KAF

Checked By: SASAKI - AG

Approved By: SASAKI - ZC

Issue Date: 09.20.2025

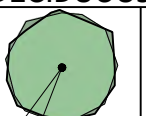
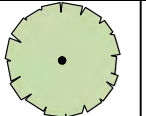
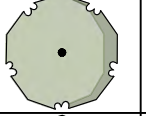
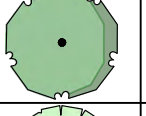
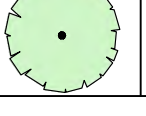
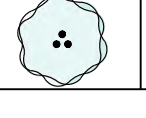
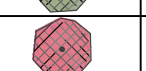
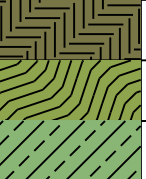
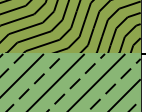


SHEET TITLE

PLANTING PLAN

SHEET

L5-01

PLANT SCHEDULE												
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER		QTY	HARDINESS ZONES	SOIL TOLERANCES	SUN EXPOSURE	MATURE HEIGHT	MATURE WIDTH
DECIDUOUS TREES												
	AR	ACER RUBRUM	RED MAPLE	3"-3.5" CAL	B&B		2	3 - 9	ACIDIC, NEUTRAL, WELL-DRAINED, MOIST	PART SHADE, FULL SUN	40 - 65FT. HT.	25 - 40FT. W.
	CA	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2"-2.5" CAL	B&B		1	3 - 9	CLAY, SILTY, SANDY, ORGANIC, ALKALINE, WELL-DRAINED, MOIST	SHADE, PART SHADE, FULL SUN	25 - 40FT. HT.	25 - 40FT. W.
	QP	QUERCUS PALUSTRIS	PIN OAK	3"-3.5" CAL	B&B		1	4 - 8	CLAY, SILTY, SANDY, LOAMY, SALTY, ACIDIC, NEUTRAL, MOIST, FLOODED	FULL SUN	40 - 65FT. HT.	25 - FT. W.
	QR	QUERCUS RUBRA	NORTHERN RED OAK	3"-3.5" CAL	B&B		2	3 - 8	CLAY, SANDY, LOAMY, ACIDIC, NEUTRAL, ALKALINE, WELL-DRAINED, MOIST	PART SHADE, FULL SUN	40 - 65FT. HT.	40 - 65FT. W.
	SA	SASSAFRAS ALBIDUM	SASSAFRAS	2.5"-3" CAL	B&B		1	4 - 9	ROCKY, CLAY, SANDY, ACIDIC, NEUTRAL, WELL-DRAINED	PART SHADE, FULL SUN	25 - 40FT. HT.	15 - 25FT. W.
UNDERSTORY TREES												
	AC	AMELANCHIER CANADENSIS - MULTISTEM	CANADIAN SERVICEBERRY - MULTISTEM	8'-10' HT.	B&B		1	3 - 8	WELL-DRAINED, MOIST	PART SHADE, FULL SUN	15 - 25FT. HT.	10 - FT. W.
SHRUBS												
	ARA	ARONIA ARBUTIFOLIA 'BRILLIANTISSIMA'	RED CHOKEBERRY	#5			6	4 - 9	CLAY, SILTY, SANDY, DRY, MOIST	PART SHADE, FULL SUN	6 - 10FT. HT.	3 - 6FT. W.
	CL	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	COASTAL SWEET PEPPERBUSH	#3			18	4 - 9	CLAY, SANDY, ACIDIC, MOIST	SHADE, PART SHADE, FULL SUN		
	HK	HYPERICUM KALMIANUM	KALM'S ST. JOHN'S WORT	#3			15	3 - 8	ROCKY, CLAY, SILTY, SANDY, ALKALINE, WELL-DRAINED, DRY, MOIST	SHADE, PART SHADE	3 - 6FT. HT.	3 - 6FT. W.
	IVM	ILEX VERTICILLATA 'JIM DANDY'	WINTERBERRY - MALE CULTIVAR	#3			1	3 - 9	CLAY, ORGANIC, ACIDIC, WELL-DRAINED, MOIST	PART SHADE, FULL SUN	6 - 10FT. HT.	6 - 10FT. W.
	IVF	ILEX VERTICILLATA 'RED SPRITE'	WINTERBERRY - FEMALE CULTIVAR	#3			4	3 - 9	CLAY, ORGANIC, ACIDIC, WELL-DRAINED, MOIST	PART SHADE, FULL SUN	6 - 10FT. HT.	6 - 10FT. W.
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	QTY	HARDINESS ZONES	SOIL TOLERANCES	SUN EXPOSURE	MATURE HEIGHT	MATURE WIDTH
GROUND COVERS												
	AMG	ARONIA MELANOCARPA 'GROUND HUG'	BLACK CHOKEBERRY	#2		36" o.c.	147	3 - 8	WELL-DRAINED	PART SHADE, FULL SUN	6 - 10FT. HT.	
	PAVI	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	#2		24" o.c.	709	5 - 9	CLAY, SANDY, SALTY, ALKALINE, MOIST, FLOODED	PART SHADE, FULL SUN	3 - 6FT. HT.	1 - 3FT. W.
		WETLAND SLOPE SEED MIX ERNST SEED RAIN GARDEN MIX		SEED		20 LBS/AC	4,129 SF	5-9		PART SHADE, FULL SUN	VARIES BY SP.	VARIES BY SP.

SCHEDULE NOTES

ALL PROPOSED SPECIES ARE NATIVE TO NEW HAMPSHIRE OR NEARBY AREAS OF THE US; NONE ARE INVASIVE.
THE PROJECT IS LOCATED IN USDA HARDINESS ZONE 5B.

NOTES

1. 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 on-site. The applicant shall be responsible for replacing any trees proposed to be retained which have been damaged or destroyed by construction activities.
2. 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.
3. 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.
4. Planting Specifications: All plant materials shall be planted in accordance with the City of Concord's Construction Standards and Details.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.

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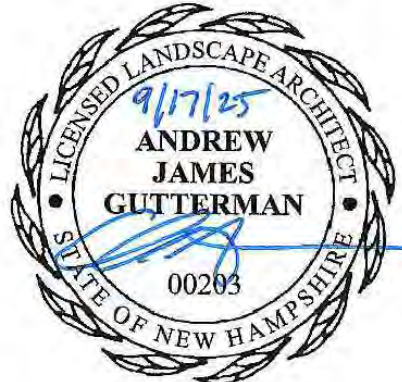
110 CHAUNCY STREET BOSTON MA 02111 USA
P 617 926 330 F 617 924 2748 W SASAKI.COM

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CONSTRUCTION

No.	Description	Date
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DRAWING ISSUE & REVISION HISTORY

Seal



ST. PAUL'S SCHOOL
NEW SQUASH CENTER

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

OWNER/APPLICANT:
ST. PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040

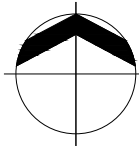
Sasaki Project No: 250018.00

Drawn By: SASAKI - KAF

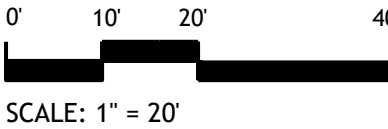
Checked By: SASAKI - AG

Approved By: SASAKI - ZC

Issue Date: 09.20.2025



North



SCALE: 1" = 20'

SHEET TITLE

PLANTING SCHEDULE AND
NOTES

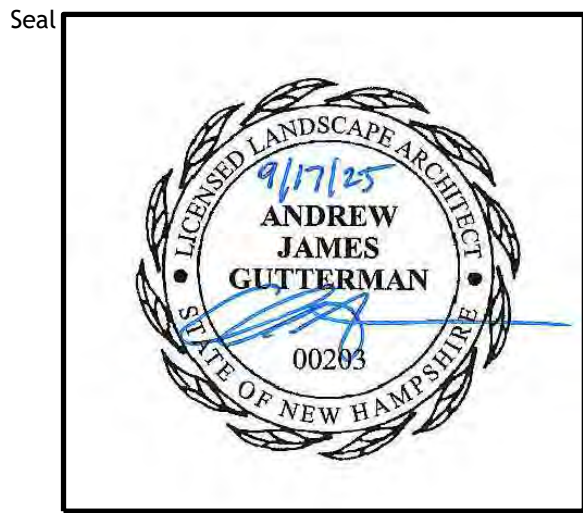
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L5-02

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FOR
CONSTRUCTION

No.	Description	Date
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DRAWING ISSUE & REVISION HISTORY



ST. PAUL'S SCHOOL
NEW SQUASH CENTER

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

OWNER/APPLICANT:
ST. PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040

Sasaki Project No: 250018.00

Drawn By: SASAKI - KAF

Checked By: SASAKI - AG

Approved By: SASAKI - ZC

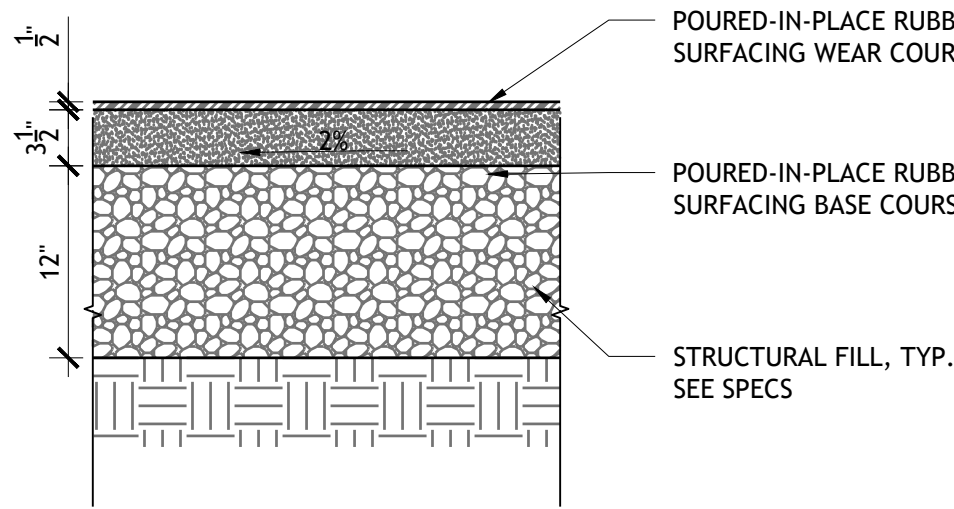
Issue Date: 09.20.2025

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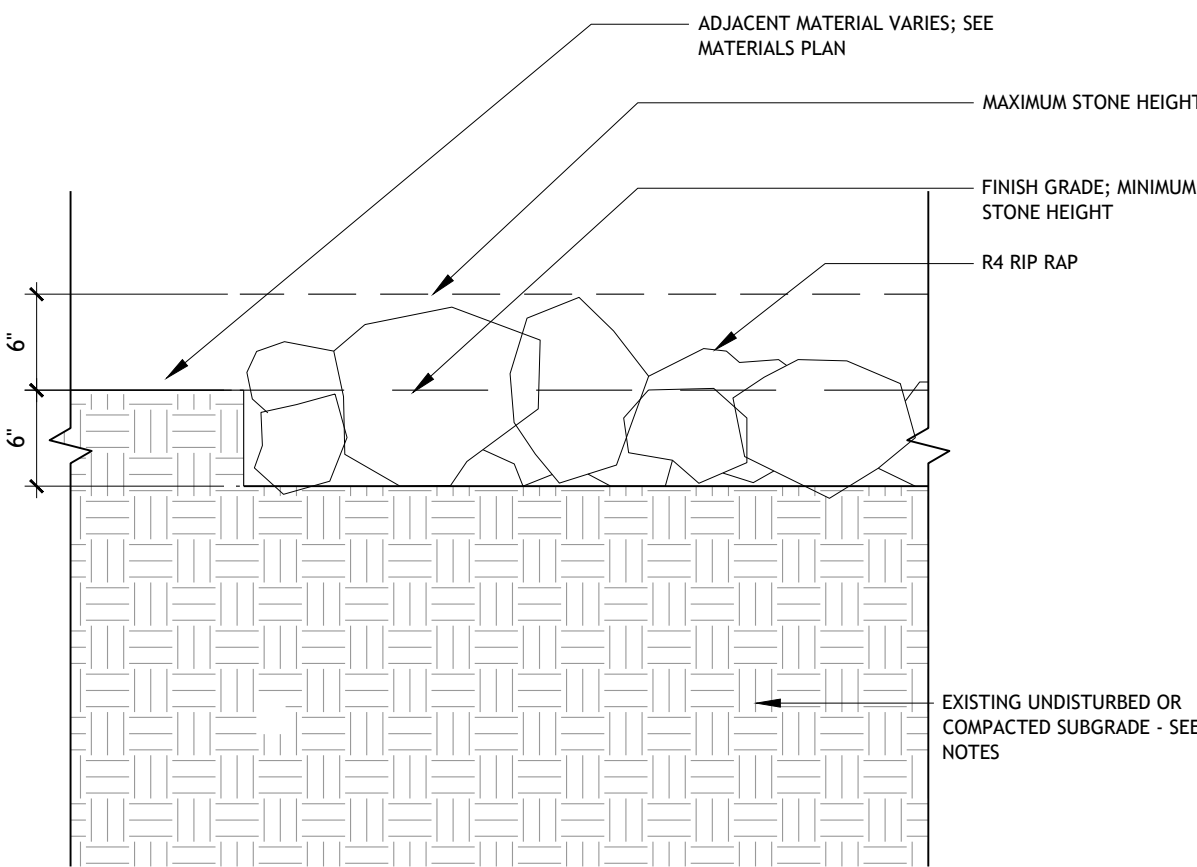
PAVING DETAILS

SHEET

L8-01



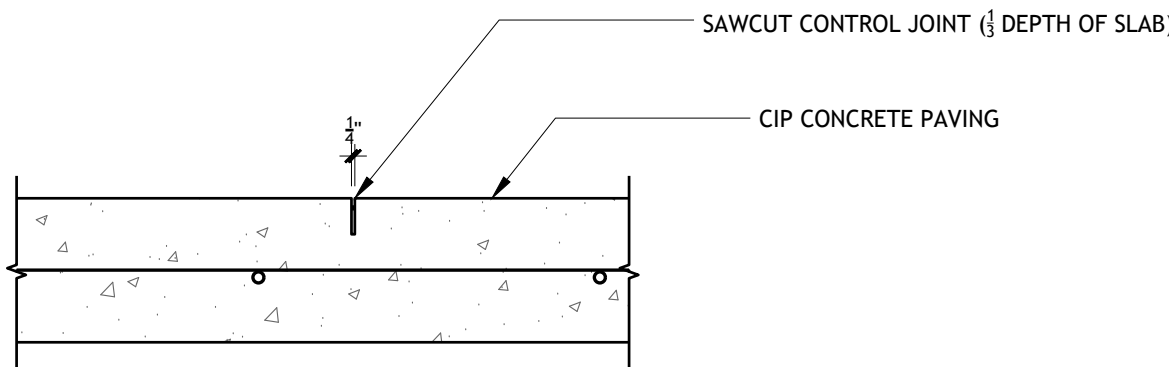
- NOTES:
1. SURFACE COLOR MIX VARIES
 2. BASIS OF DESIGN IS ADVENTURE TURF
POURED-IN-PLACE TWO LAYER SYSTEM. SEE SPECIFICATIONS FOR MORE INFORMATION.



- NOTES
1. WHERE RIP RAP IS APPLIED TO SLOPES >10%, COMPACT MIN. 6" SUBGRADE

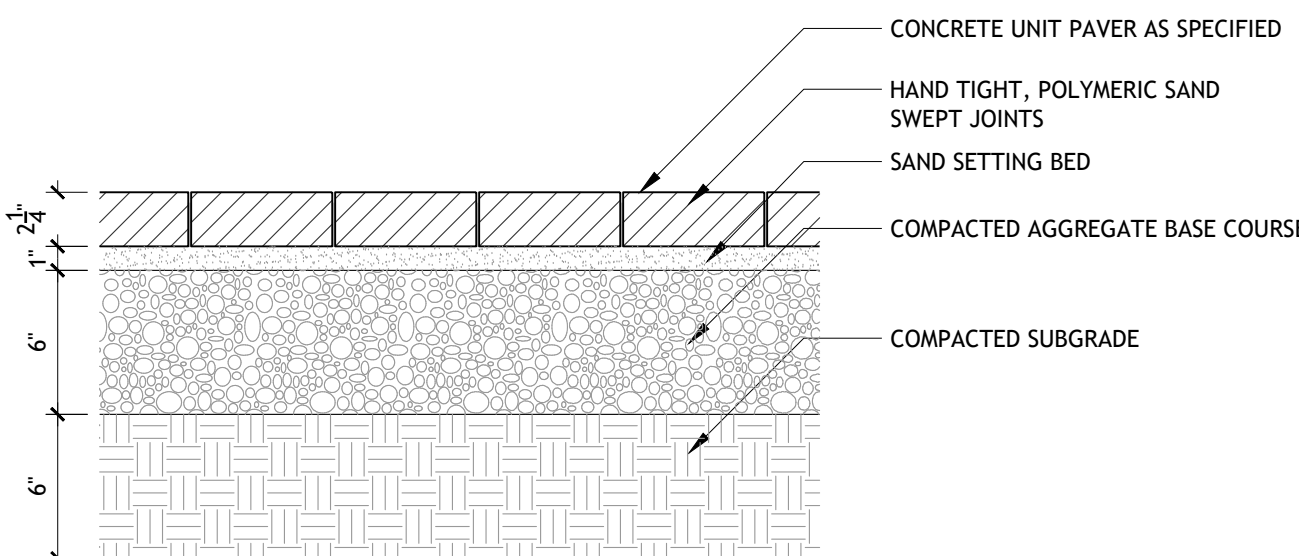
7 POURED-IN-PLACE RUBBER SAFETY SURFACINGPA-105
1" = 1'-0" P-25-STP-58

4 RIP RAP PA-104
1" = 1'-0" P-25-STP-57



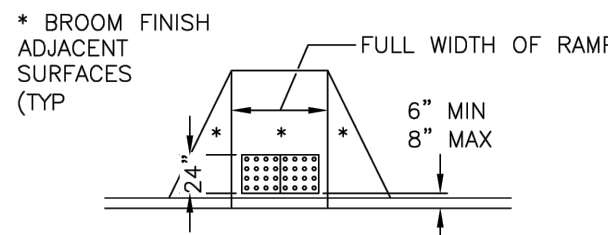
- NOTES:
1. REFER TO LAYOUT PLAN FOR JOINT SPACING
 2. REFER TO MATERIALS PLAN FOR TYPE OF CIP CONCRETE PAVING
 3. JOINT SEALANT COLOR SHALL MATCH COLOR OF CONCRETE AND SHALL BE APPROVED BY ARCHITECT

6 CONCRETE CONTROL JOINT JT-102
1 1/2" = 1'-0" P-25-STP-31

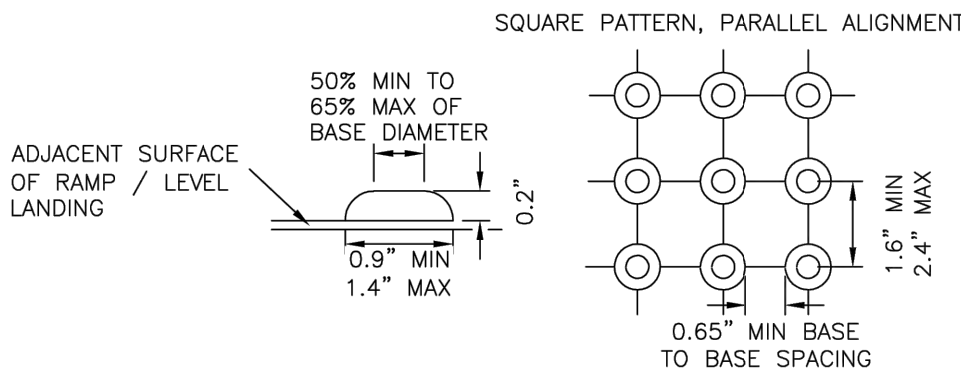


- NOTES:
1. CONCRETE UNIT PAVER COLOR, FINISH, AND SIZE TO BE DETERMINED
 2. PAVER PATTERN TO BE DETERMINED
 3. REFER TO PLANS FOR EXTENTS
 4. AGGREGATE BASE COURSE TO BE COMPACTED TO 95%
 5. COMPACT NATIVE SOILS OR ENGINEERED FILL TO 95%

2 CONCRETE UNIT PAVERS PA-102
1 1/2" = 1'-0" P-25-STP-05

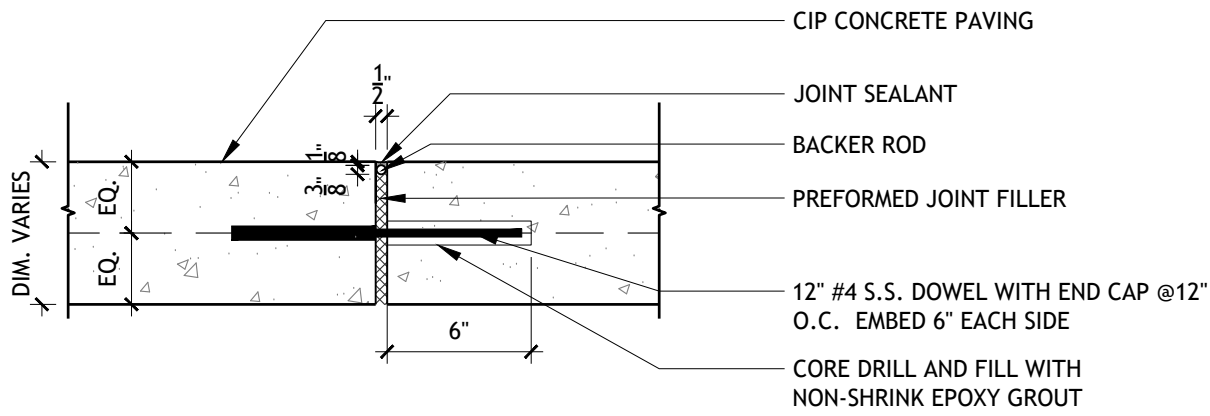


DETECTABLE WARNING PLACEMENT



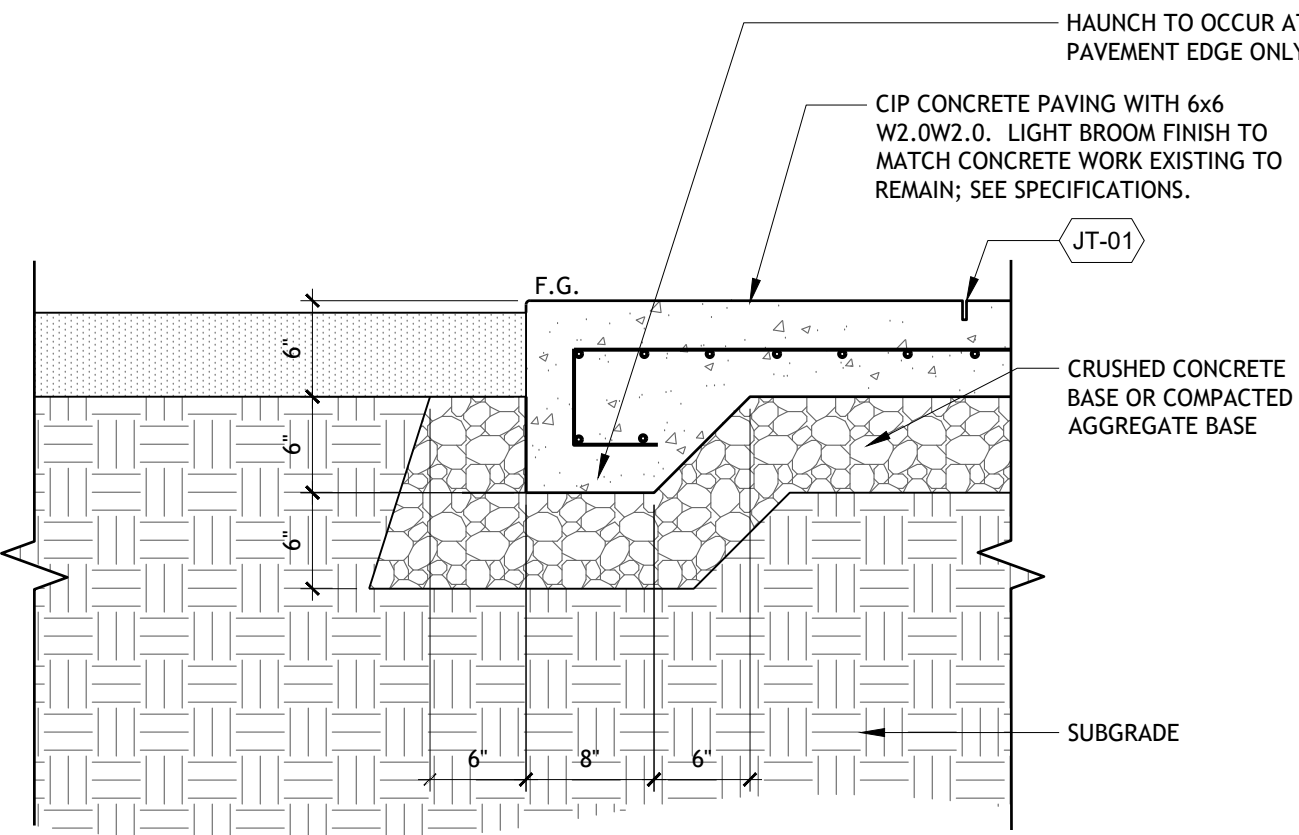
DETECTABLE WARNING DETAILS

- NOTES:
1. DETECTABLE WARNING SURFACES SHALL BE CAST IRON WITHIN THE CITY R.O.W.
 2. CONCRETE ADJACENT TO ALL DETECTABLE WARNINGS SHALL HAVE A BROOM FINISH.
 3. THE COLOR OF THE DETECTABLE WARNING SHALL PROVIDE A VISUAL CONTRAST TO THE SURROUNDING SURFACE AND SHALL BE AS SPECIFIED ON THE PLANS.
 4. WHERE A RAMP OR LEVEL LANDING MEETS A CURB RADIUS, ALIGN THE EDGE OF THE DETECTABLE WARNING AREA PARALLEL TO THE CURB TO THE MAXIMUM EXTENT FEASIBLE.



- NOTES:
1. REFER TO LAYOUT PLAN FOR JOINT PATTERN AND SPACING
 2. REFER TO MATERIALS PLAN FOR TYPE OF CIP CONCRETE PAVING
 3. JOINT SEALANT COLOR SHALL MATCH COLOR OF CONCRETE AND SHALL BE APPROVED BY ARCHITECT

5 EXPANSION JOINT JT-101
1 1/2" = 1'-0" P-25-STP-13



- NOTES:
1. REFER TO LAYOUT PLAN FOR JOINTING LOCATION AND PATTERNS

1 CIP CONCRETE PAVING (PED) PA-101
1" = 1'-0" P-25-STP-16

Go To Details

Go To TOC

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	SITE/STREET
1	REV STYLE	11-08	DETECTABLE WARNING PANEL DETAILS	DRAWING NO.	CR-1
-	-	-		DATE:	12/08
-	-	-		PAGE:	1
APPROVED BY:					

CR1--CR13_RDWY--Curb Romps_10.dwg

No.	Description	Date
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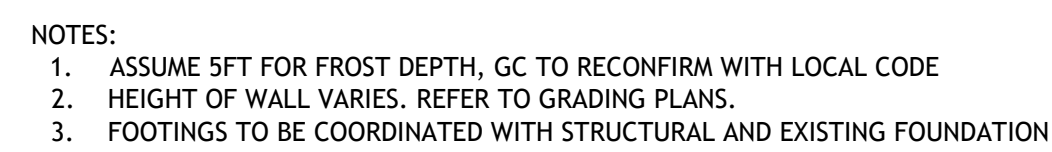
Seal



OWNER/APPLICANT:
ST. PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

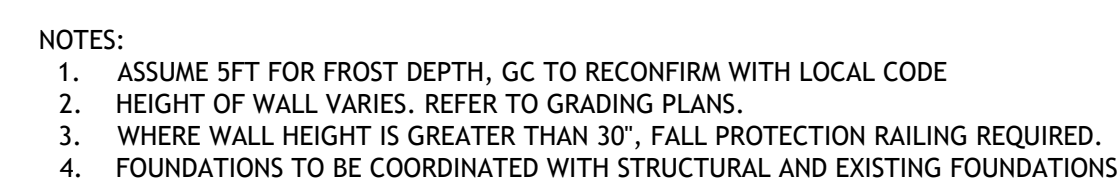
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L8-20



WA-102

P-25-STP-65



WA-101

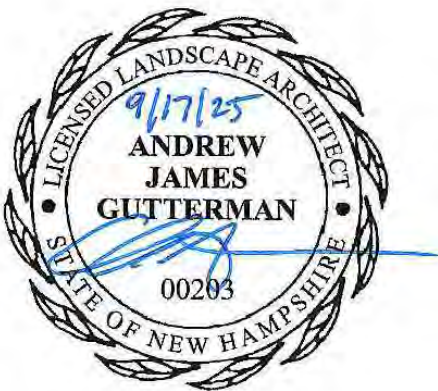
P-25-STP-64

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CONSTRUCTION

No.	Description	Date
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DRAWING ISSUE & REVISION HISTORY

Seal



ST. PAUL'S SCHOOL
NEW SQUASH CENTER

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

OWNER/APPLICANT:
ST. PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040

Sasaki Project No: 250018.00

Drawn By: SASAKI - KAF

Checked By: SASAKI - AG

Approved By: SASAKI - ZC

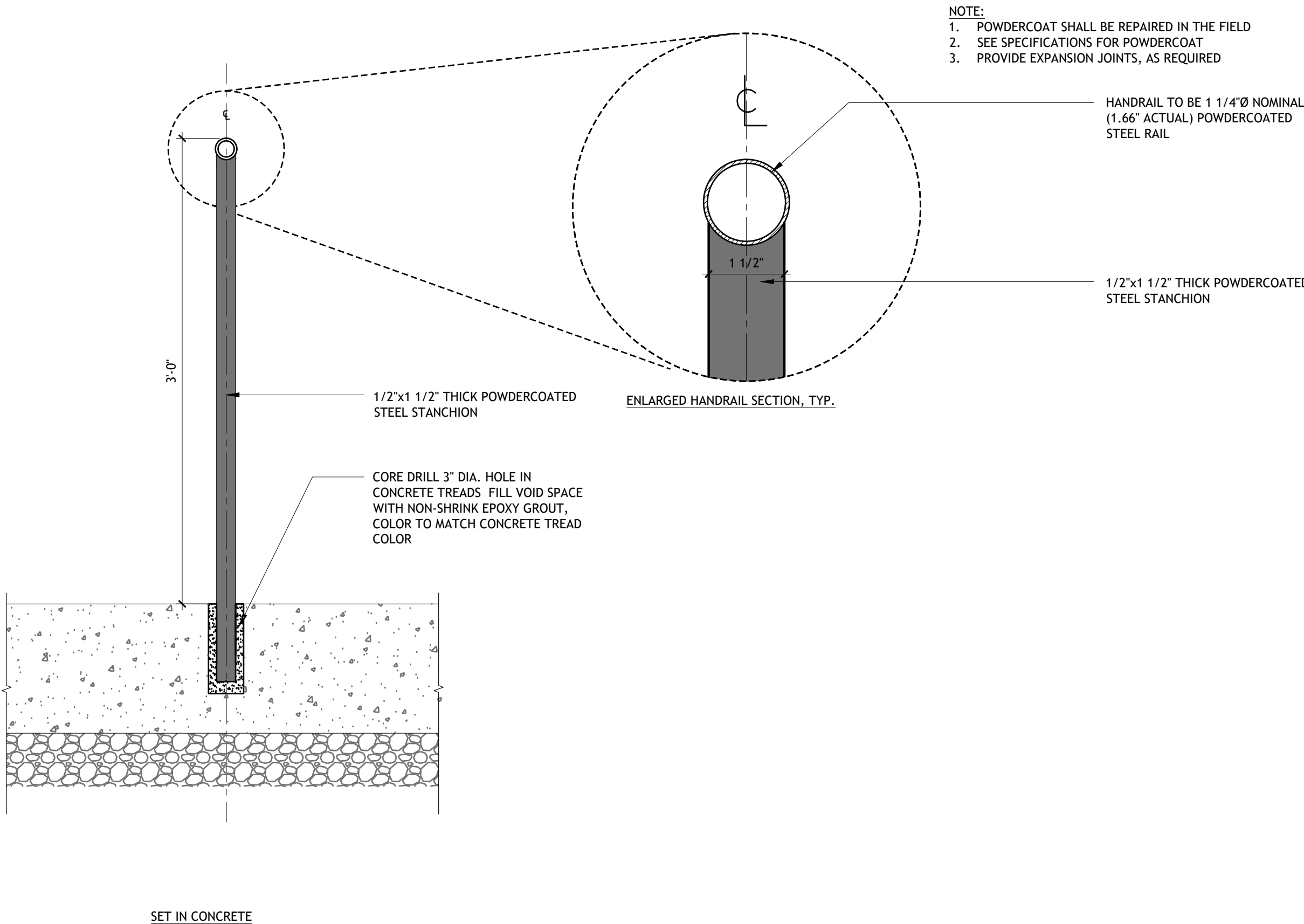
Issue Date: 09.20.2025

SHEET TITLE

RAILING DETAILS

SHEET

L8-21



SASAKI

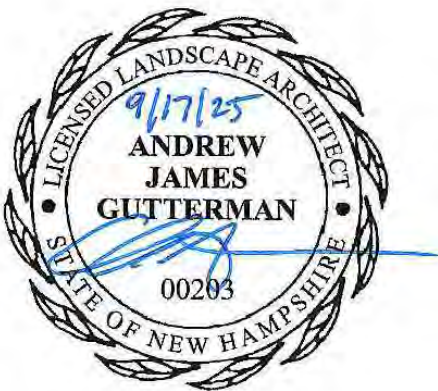
110 CHAUNCY STREET BOSTON MA 02111 USA
P 617 926 330 F 617 924 2748 W SASAKI.COM

NOT ISSUED
FOR
CONSTRUCTION

No.	Description	Date
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DRAWING ISSUE & REVISION HISTORY

Seal



ST. PAUL'S SCHOOL
NEW SQUASH CENTER

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

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CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040

Sasaki Project No: 250018.00

Drawn By: SASAKI - KAF

Checked By: SASAKI - AG

Approved By: SASAKI - ZC

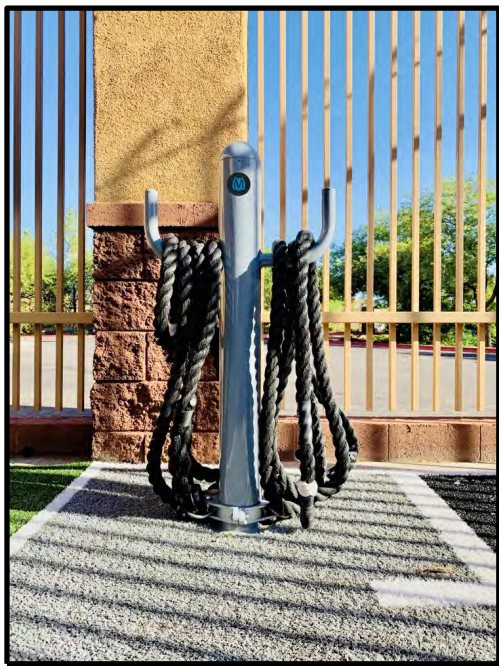
Issue Date: 09.20.2025

SHEET TITLE

FURNISHING DETAILS

SHEET

L8-40



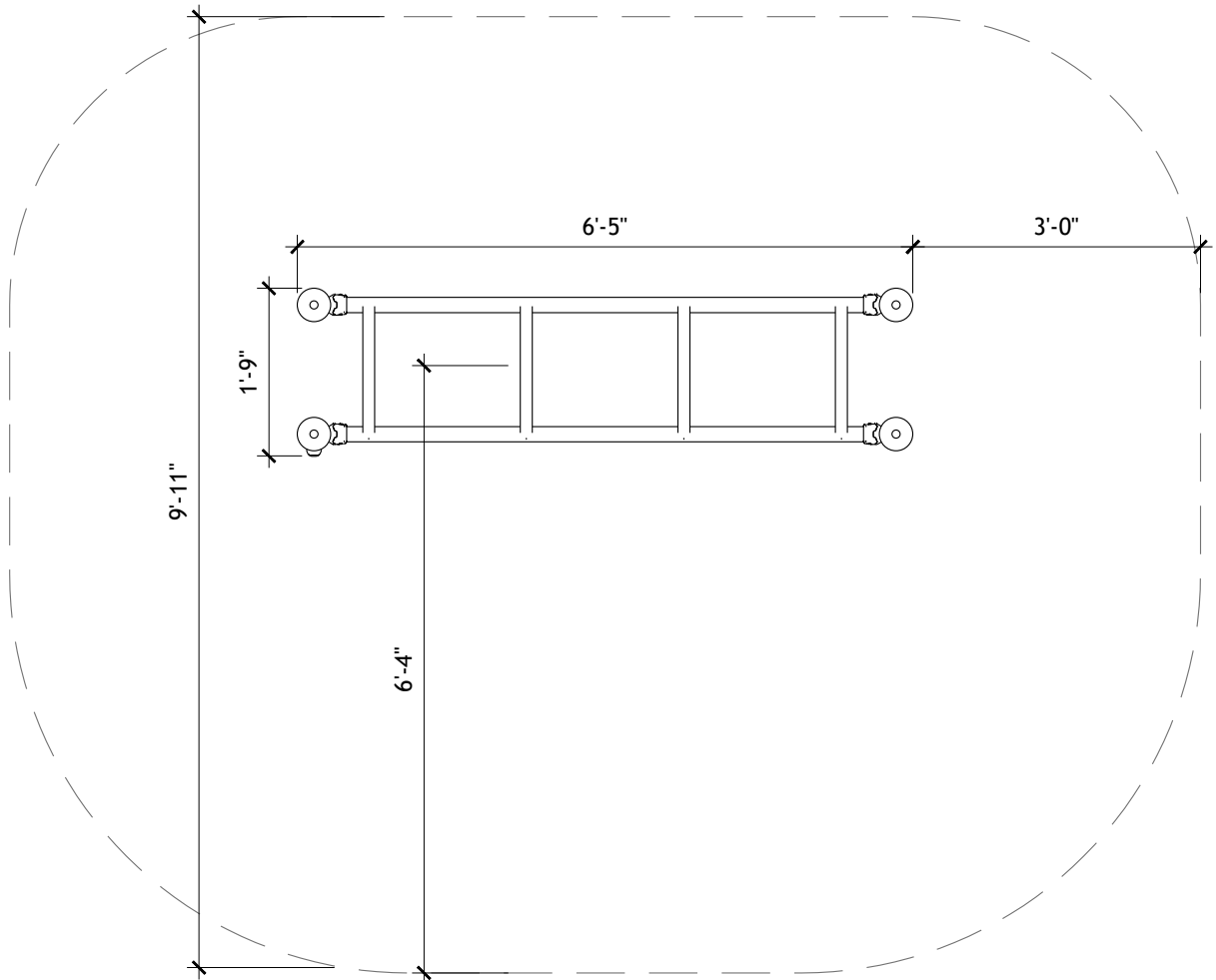
- NOTES:
1. BOD: MOVESTRONG BATTLE ROPE STATION
 2. INSTALL PER MANUFACTURERS INSTRUCTIONS

4 BATTLE ROPE

NTS

QS-104

P-25-STP-67



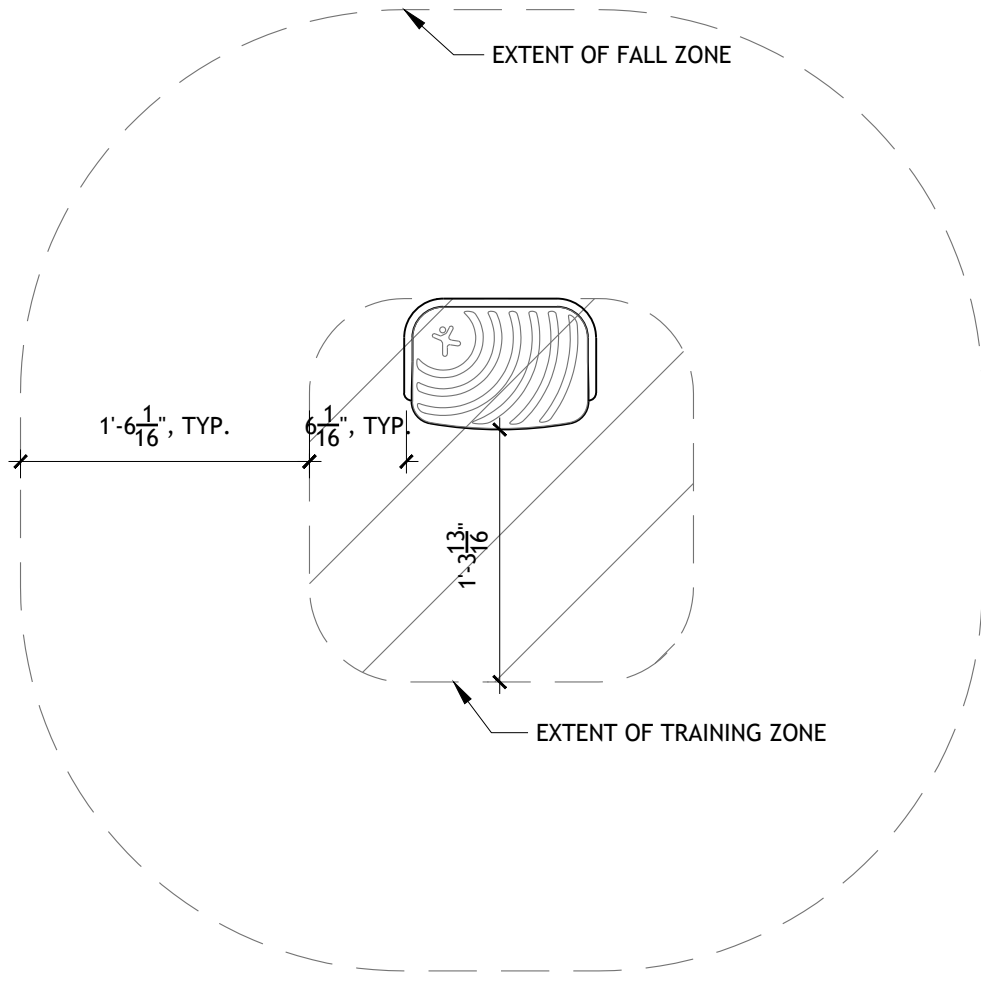
- NOTES:
1. BOD: KOMPAN DIP BENCH FSW20200
 2. NO EQUIPMENT, OBSTRUCTIONS, OR VERTICAL SURFACES TO BE WITHIN FALL ZONE
 3. ENTIRETY OF FALL ZONE MUST BE COMPOSED OF SAFETY SURFACING WITH SLOPE AND CROSS-SLOPE <2%
 4. INSTALL PER MANUFACTURERS INSTRUCTIONS

3 DIP BENCH

1/2" = 1'-0"

QS-103

P-25-STP-66



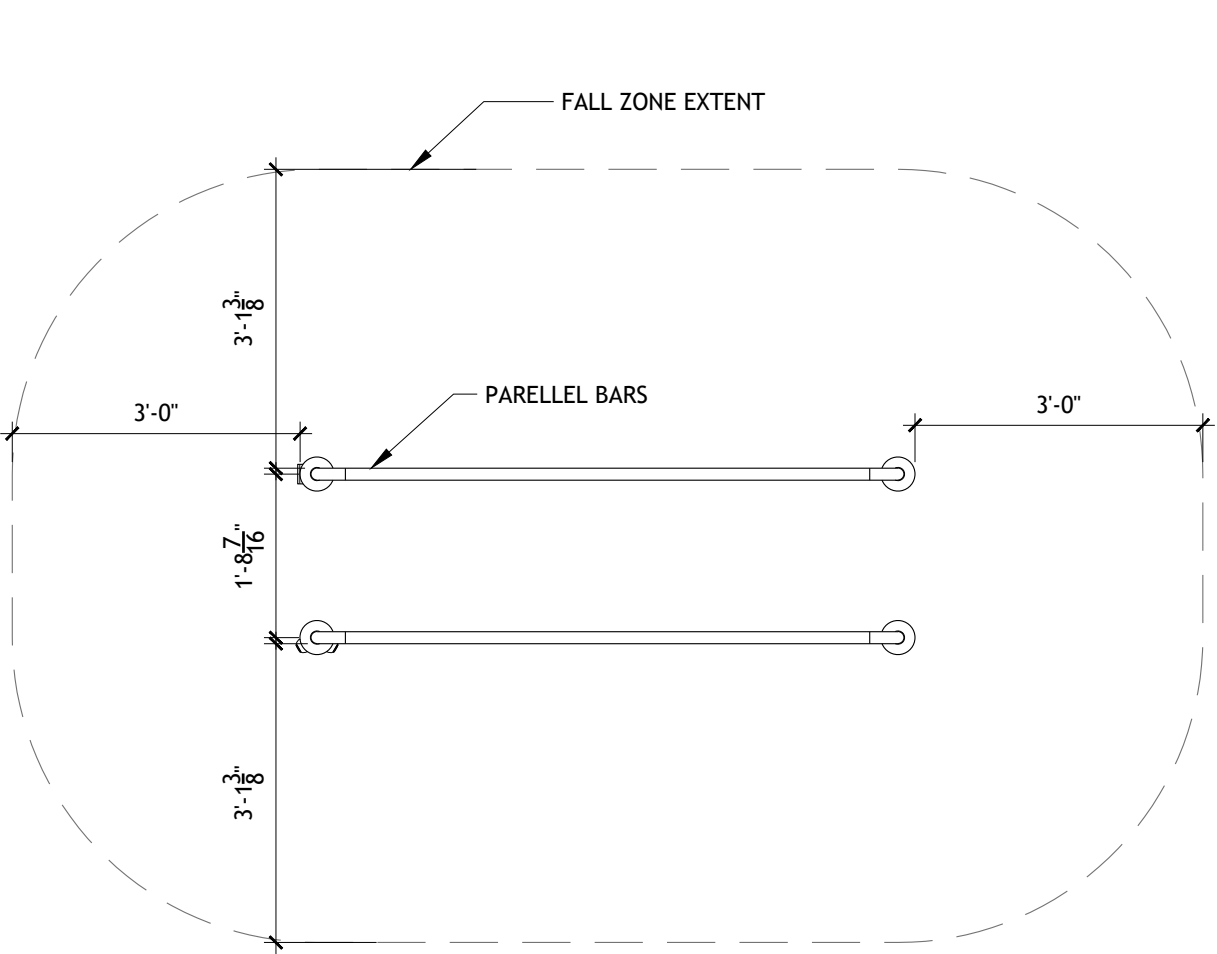
- NOTES:
1. BOD: KOMPAN STEP. STEP HEIGHT AND MODEL VARIES:
 - 1.1. 8" STEP: FAZ30101
 - 1.2. 16" STEP: FAZ30201
 - 1.3. 24" STEP: FAZ30301
 2. NO EQUIPMENT, OBSTRUCTIONS, OR VERTICAL SURFACES TO BE WITHIN FALL ZONE
 3. ENTIRETY OF FALL ZONE MUST BE COMPOSED OF SAFETY SURFACING WITH SLOPE AND CROSS-SLOPE <2%
 4. INSTALL PER MANUFACTURERS INSTRUCTIONS

2 EXERCISE STEP

1" = 1'-0"

QS-102

P-25-STP-61



- NOTES:
1. BOD: KOMPAN PARALLEL BARS FSW201
 2. NO EQUIPMENT, OBSTRUCTIONS, OR VERTICAL SURFACES TO BE WITHIN FALL ZONE
 3. ENTIRETY OF FALL ZONE MUST BE COMPOSED OF SAFETY SURFACING WITH SLOPE AND CROSS-SLOPE <2%
 4. INSTALL PER MANUFACTURERS INSTRUCTIONS

1 PARALLEL BARS

1/2" = 1'-0"

QS-101

P-25-STP-60

NOT ISSUED
FOR
CONSTRUCTION

No. Description Date

DRAWING ISSUE & REVISION HISTORY

Seal



ST. PAUL'S SCHOOL
NEW SQUASH CENTER

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

OWNER/APPLICANT:
ST. PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040

Sasaki Project No: 250018.00

Drawn By: SASAKI - KAF

Checked By: SASAKI - AG

Approved By: SASAKI - ZC

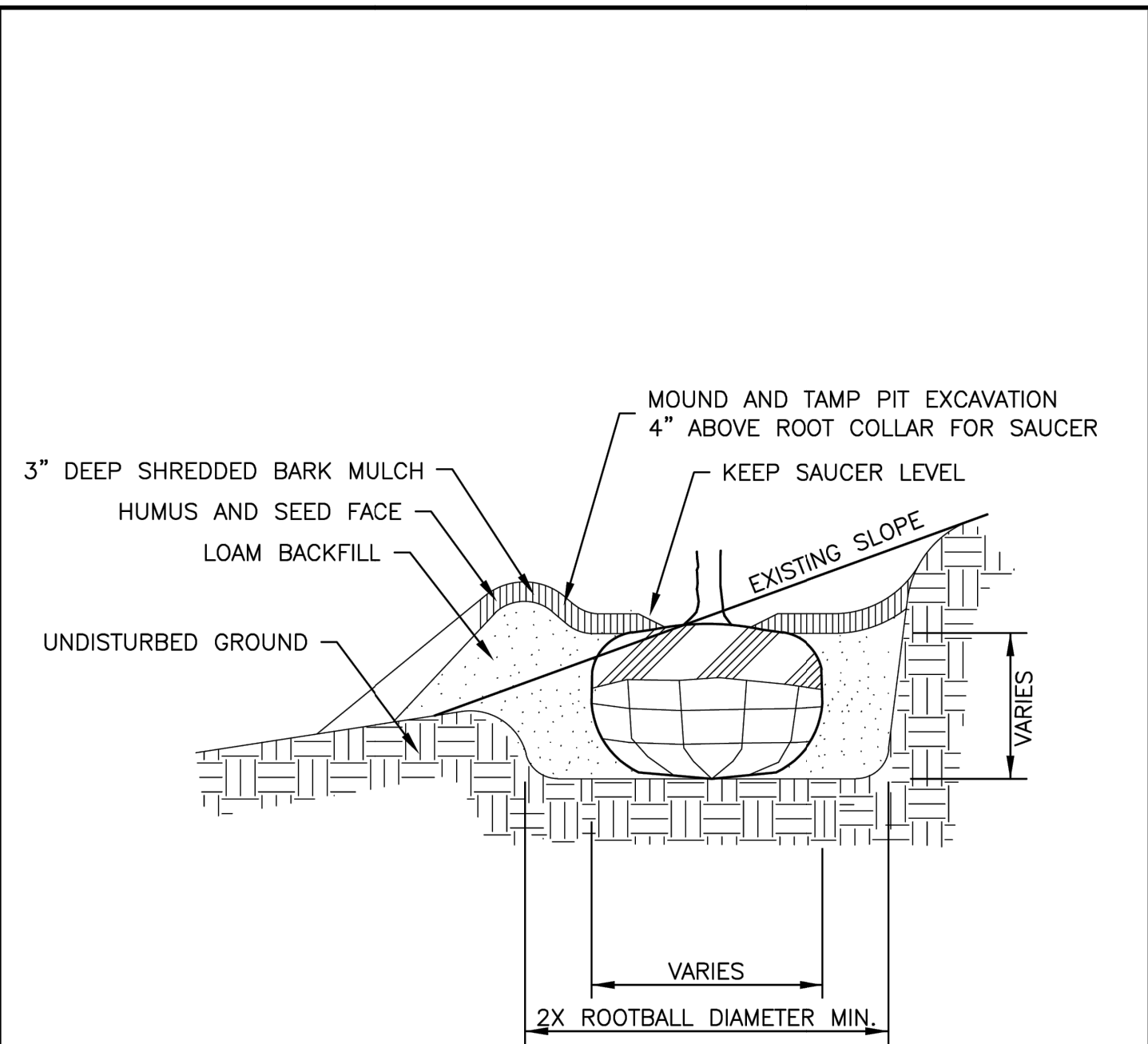
Issue Date: 09.20.2025

SHEET TITLE

PLANTING DETAILS

SHEET

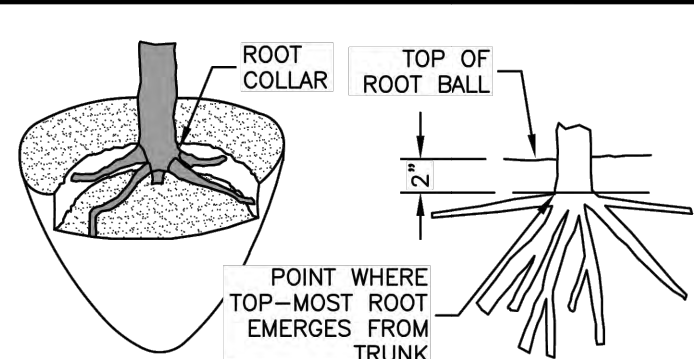
L9-00



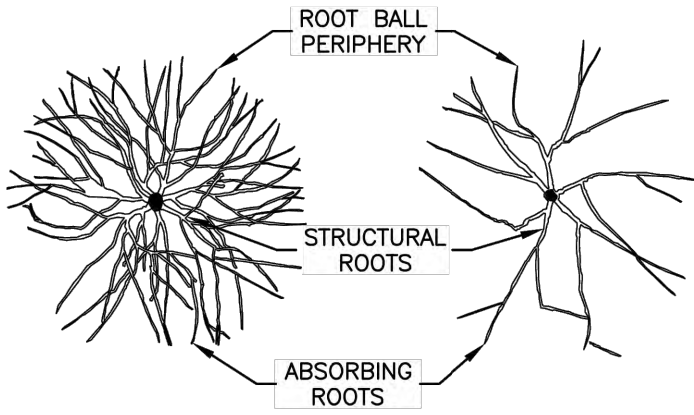
TYPICAL PLANTING PIT ON SLOPE
4:1 OR GREATER

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: LANDSCAPE
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
TREE PLANTING ON SLOPE				DRAWING NO. L-6
				DATE: 12/08 PAGE: 1

L1-L9_LDSC Landscape 1-10a



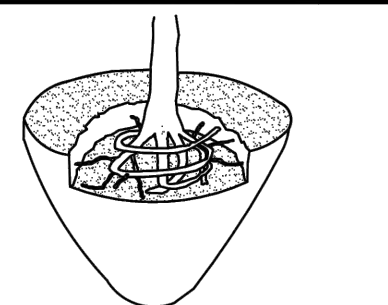
THE POINT WHERE TOP-MOST ROOT(S) EMERGES FROM THE TRUNK (ROOT COLLAR) SHOULD BE WITHIN THE TOP 2" OF SUBSTRATE. THE ROOT COLLAR AND THE ROOT BALL INTERIOR SHOULD BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED, ASCENDING, AND STEM GIRDLING ROOTS. STRUCTURAL ROOTS SHALL REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL.



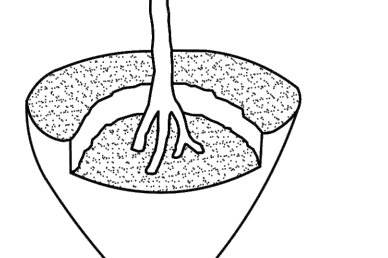
ROOTS RADIATE FROM TRUNK AND REACH SIDE OF ROOT BALL WITHOUT DEFECTING DOWN OR AROUND.

ACCEPTABLE

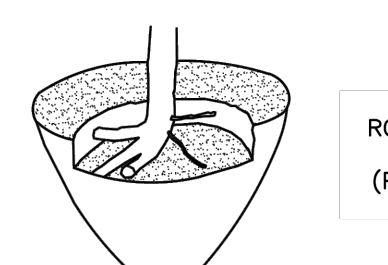
- NOTES:
- OBSERVATIONS OF ROOTS SHALL OCCUR PRIOR TO ACCEPTANCE. ROOTS AND SOIL MAY BE REMOVED DURING THE OBSERVATION PROCESS. SUBSTRATE/SOIL SHALL BE REPLACED AFTER THE OBSERVATIONS HAVE BEEN COMPLETED.
 - SEE SPECIFICATIONS FOR OBSERVATION PROCESS AND REQUIREMENTS.
 - DETAIL DEVELOPED BY THE URBAN TREE FOUNDATION AND IS OPEN SOURCE AND FREE TO USE BY OTHERS.



STRUCTURAL ROOTS CIRCLE INTERIOR OF ROOT BALL. NO STRUCTURAL ROOTS ARE HORIZONTAL AND REACH THE ROOT BALL PERIPHERY NEAR THE TOP OF THE ROOT BALL.

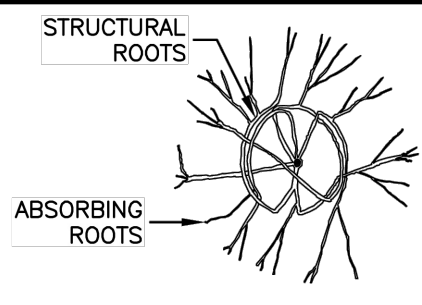


STRUCTURAL ROOTS DESCEND INTO ROOT BALL INTERIOR. NO STRUCTURAL ROOTS ARE HORIZONTAL AND REACH THE ROOT BALL PERIPHERY NEAR THE TOP OF THE ROOT BALL.

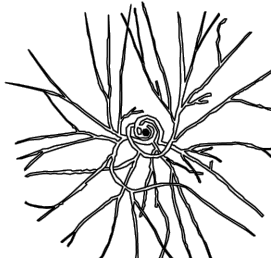


STRUCTURAL ROOTS PRIMARILY GROW TO ONE SIDE

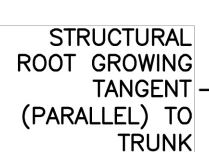
REJECTABLE



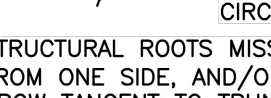
ONLY ABSORBING ROOTS REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL. STRUCTURAL ROOTS MOSTLY WRAP OR ARE DEFLECTED ON THE ROOT BALL INTERIOR.



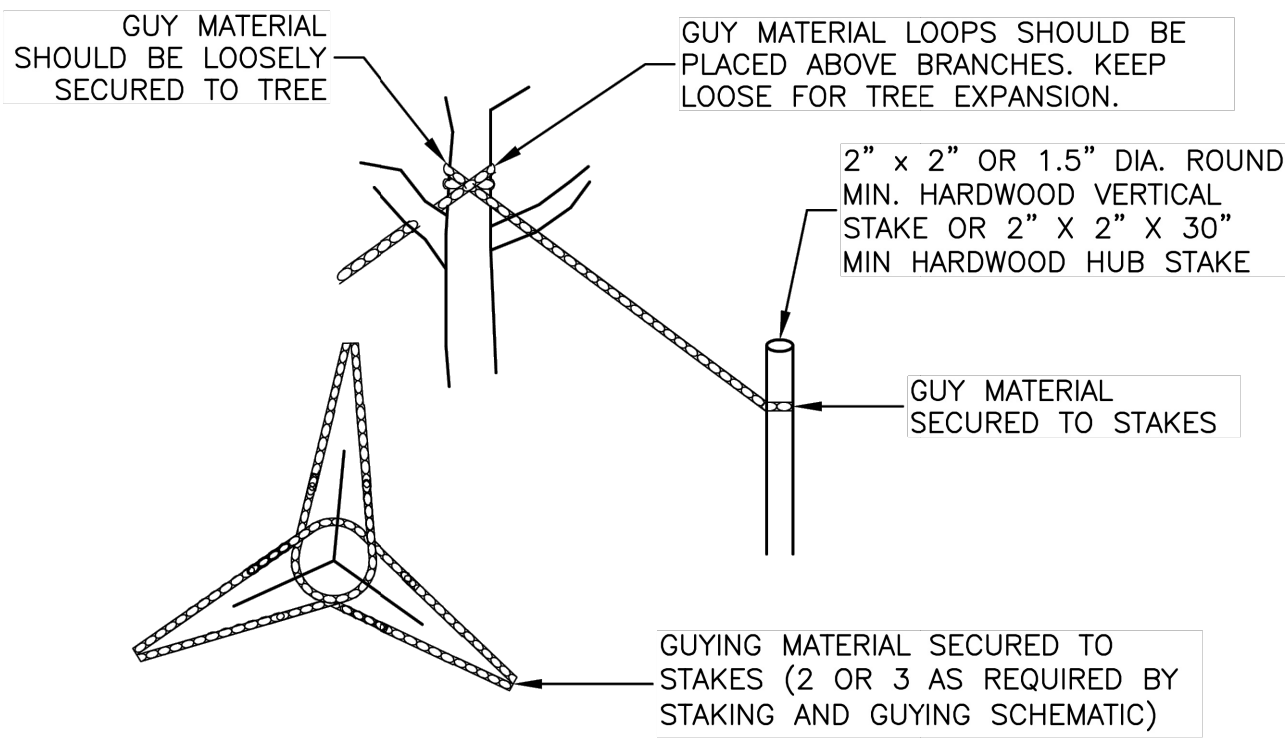
STRUCTURAL ROOTS CIRCLE AND DO NOT RADIATE FROM THE TRUNK.



STRUCTURAL ROOT GROWING TANGENT (PARALLEL) TO TRUNK



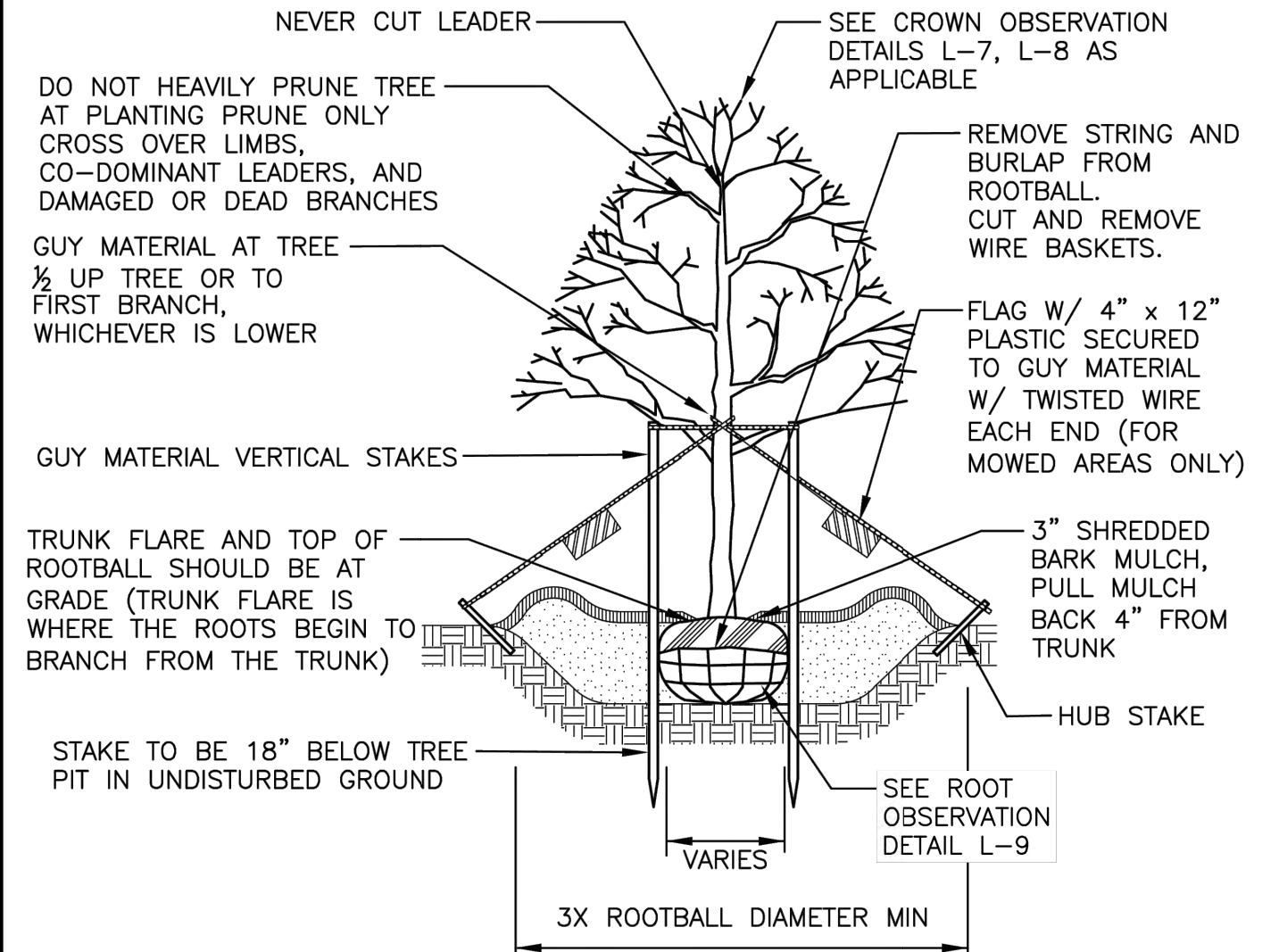
STRUCTURAL ROOTS MISSING FROM ONE SIDE, AND/OR GROW TANGENT TO TRUNK



NOTE:
ONLY USE PLASTIC CHAINLOCK (LANDSCAPE QUALITY AND SUITABLE FOR GUYING TREES) OR EQUIVALENT GUYING MATERIAL.

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: LANDSCAPE
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
DECIDUOUS TREE - GUYING & STAKING				DRAWING NO. L-2
				DATE: 12/08 PAGE: 1

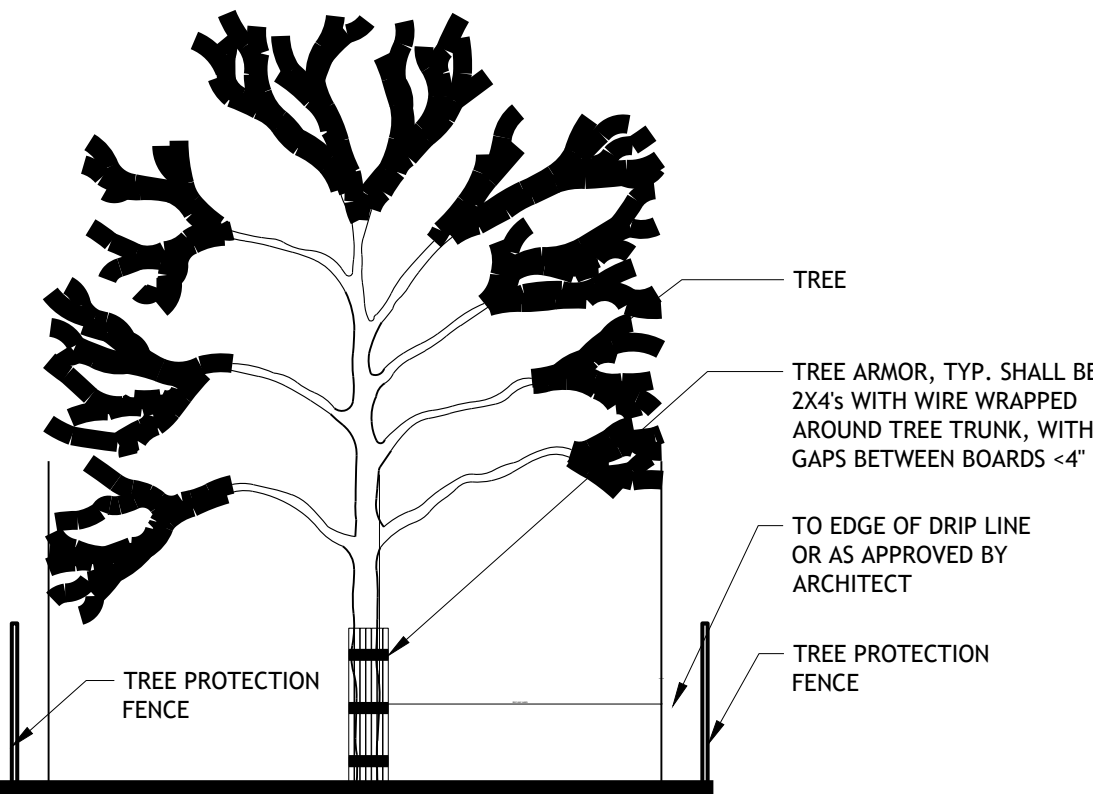
L1-L9_LDSC Landscape 1-10a



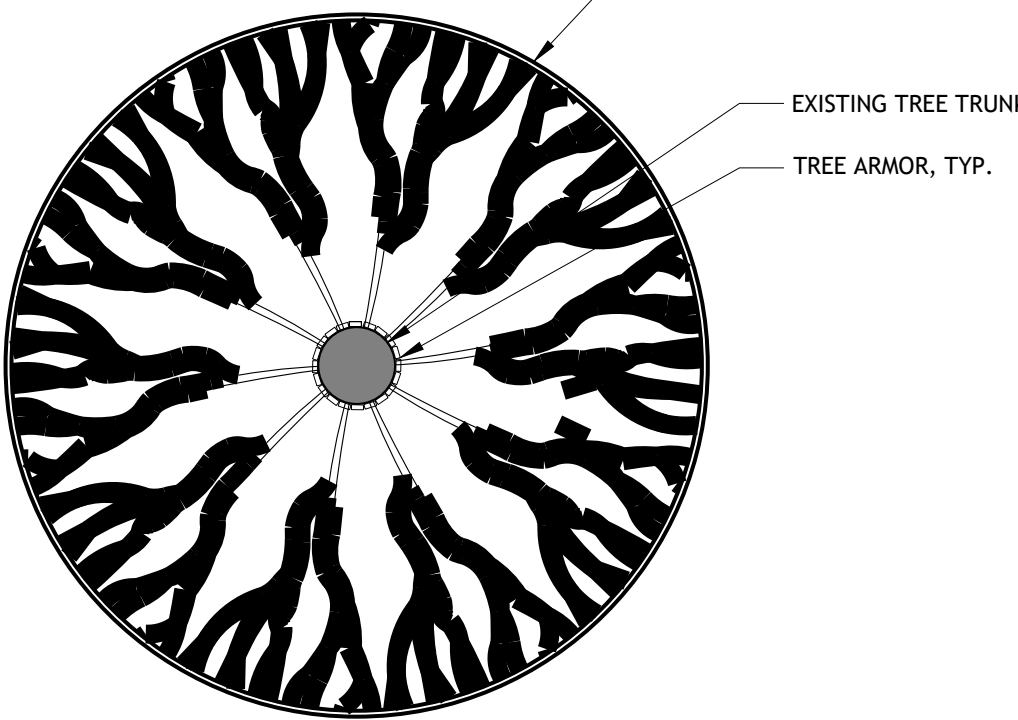
- NOTES:
- GUYING AND STAKING TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT. LOCAL FIELD CONDITIONS AS WELL AS PLANT CHARACTERISTICS WILL DETERMINE THE NECESSITY OF GUYING AND STAKING.
 - TYPICALLY ONLY TREES WITH A 3" OR GREATER CALIPER NEED TO BE STAKED. TREES WITH LESS THAN A 3" CALIPER NEED TO BE STAKED ONLY AS REQUIRED BY LANDSCAPE ARCHITECT.
 - ONLY WRAP TREE TRUNKS AS REQUIRED BY LANDSCAPE ARCHITECT.
 - TREE SHALL BE SET PLUMB, AFTER SETTLEMENT.
 - LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE ARCHITECT.
 - CITY TREES PLANTED ON PRIVATE PROPERTY, ADJACENT TO A PUBLIC RIGHT-OF-WAY, NEED TO BE PLANTED A MINIMUM OF 10 FEET FROM THE EDGE OF THE CITY SIDEWALK.
 - ALL NURSERY TAGS, TAPE, AND SIMILAR MATERIALS SHALL BE REMOVED.

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: LANDSCAPE
1	NOTES	4.15	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
DECIDUOUS TREE PLANTING				DRAWING NO. L-1
				DATE: 12/08 PAGE: 1

L1-L9_LDSC Landscape 1-10a



SECTION: FENCE OUTSIDE DRIP LINE (BASE CONDITION)



PLAN

- NOTES:
- ARCHITECT TO APPROVE FINAL TREE AND SHRUB PROTECTION FENCING IN FIELD PRIOR TO CONSTRUCTION.
 - ARBORIST TO BE CONSULTED PRIOR TO CONDUCTING ANY WORK WITHIN DRIP LINE OF EXISTING TREES TO BE PROTECTED.
 - TREE PROTECTION FENCE TO BE GALVANIZED CHAIN LINK FENCING, 6'-0" HIGH. FENCE POST ANCHOR SYSTEM SHALL NOT DAMAGE TREE ROOT SYSTEM.
 - WHERE WORK IS REQUIRED WITHIN THE DRIP LINE, ONLY HAND WORK SHALL BE PERMITTED. ALL EXCAVATION WITHIN DRIP LINE TO BE CONDUCTED USING AN AIR SPADE.

1 TREE PROTECTION

1" = 1'-0"

P-25-STP-59

NOT ISSUED
FOR
CONSTRUCTION

No. Description Date

DRAWING ISSUE & REVISION HISTORY

Seal



ST. PAUL'S SCHOOL
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85, 87, 89 DUNBARTON ROAD
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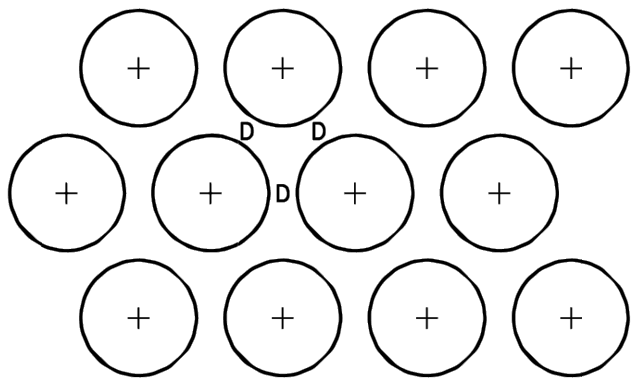
Issue Date: 09.20.2025

SHEET TITLE

PLANTING DETAILS

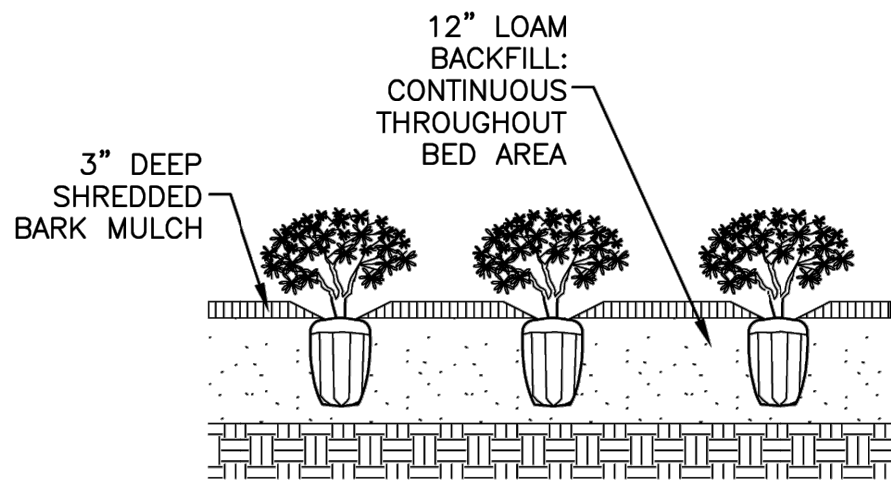
SHEET

L9-01



TYPICAL BED PLANT SPACING

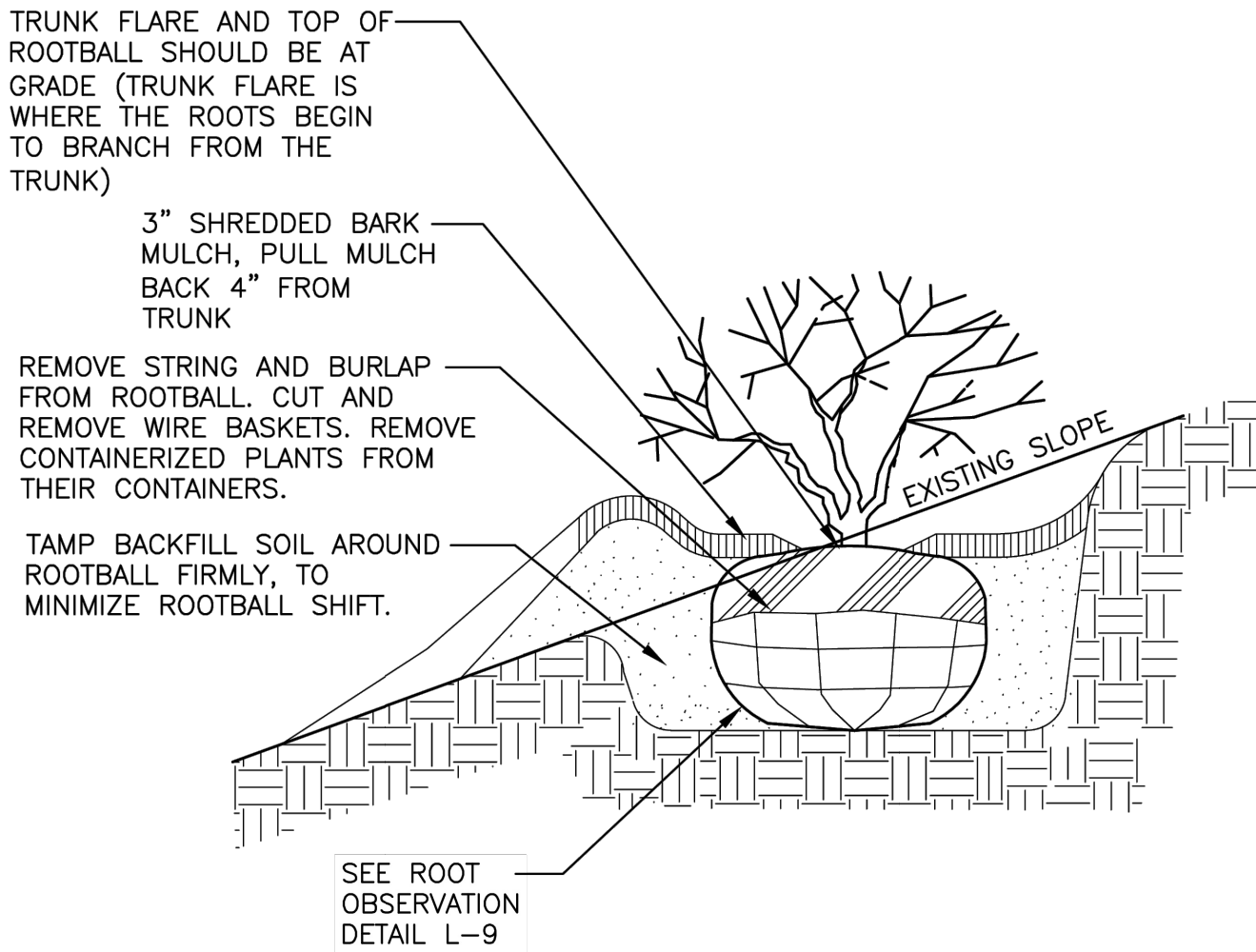
D = DIMENSION OF PLANT SPACING
(SHRUB OR GROUNDCOVER AS
INDICATED ON PLANS)



GROUNDCOVER BED PLANTING

NO. REVISION DATE			City of Concord Engineering Services Division		SECTION: LANDSCAPE	
1	NOTES	4.15	GROUNDCOVER PLANTING		DRAWING NO.	L-5
2					DATE:	12/08
3					PAGE:	1
4						

L1=L9_LDSC Landscape



- NOTES:
- DO NOT HEAVILY PRUNE SHRUB AT PLANTING, PRUNE ONLY CROSSOVER LIMBS AND DAMAGED OR DEAD BRANCHES.
 - BACKFILL WITH LOAM, AMEND AS REQUIRED BY LANDSCAPE ARCHITECT.
 - SHRUBS & GROUNDCOVER PLANTED ADJACENT TO CITY SIDEWALKS NEED TO BE PLACED SO THE PLANTS, AT THEIR MATURE HEIGHT & WIDTH, WILL NOT ENCROACH INTO THE CITY'S SIDEWALK.
 - TREE TO BE SET PLUMB, AFTER SETTLEMENT.
 - ALL NURSERY TAGS, TAPE, AND SIMILAR MATERIALS SHALL BE REMOVED.

NO. REVISION DATE			City of Concord Engineering Services Division		SECTION: LANDSCAPE	
1	NOTES	4.15	SHRUB PLANTING		DRAWING NO.	L-4
2					DATE:	12/08
3					PAGE:	1
4						

L1=L9_LDSC Landscape

NO. REVISION DATE			City of Concord Engineering Services Division		SECTION: LANDSCAPE	
1	NOTES	4.15	CROWN OBSERVATIONS LOW BRANCHED		DRAWING NO.	L-8
2					DATE:	04/15
3					PAGE:	1
4						

ACCEPTABLE

ONE CENTRAL LEADER (NO CODOMINANT LEADERS)

ASPECT RATIO LESS THAN 0.66

EXAMPLE

A	B	ASPECT RATIO
1.5"	0.5"	0.33
2.5"	0.9"	0.36
2.0"	1.0"	0.50
2.5"	1.6"	0.64

ASPECT RATIO OF B:A LESS THAN 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.

REJECTABLE

MULTIPLE LEADERS (SEVERAL CODOMINANT LEADERS)

ASPECT RATIO GREATER THAN 0.66

EXAMPLE

A	B	ASPECT RATIO
2.5"	1.8"	0.72
2.0"	2.0"	1.0
2.5"	2.0"	0.80
4.0"	3.0"	0.75

ASPECT RATIO OF B:A GREATER THAN OR EQUAL TO 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.

NOTES:

- ASPECT RATIO SHALL BE LESS THAN 0.66 ON ALL BRANCH UNIONS. ASPECT RATIO IS THE DIAMETER OF BRANCH (B) DIVIDED BY THE DIAMETER OF THE TRUNK (A) AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.
- ANY TREE NOT MEETING THE CROWN OBSERVATIONS DETAIL MAY BE REJECTED.
- DETAIL DEVELOPED BY THE URBAN TREE FOUNDATION AND IS OPEN SOURCE AND FREE TO USE BY OTHERS.

NO. REVISION DATE			City of Concord Engineering Services Division		SECTION: LANDSCAPE	
1	NOTES	4.15	CROWN OBSERVATIONS HIGH BRANCHED		DRAWING NO.	L-7
2					DATE:	04/15
3					PAGE:	1
4						

ACCEPTABLE

ONE CENTRAL LEADER (NO CODOMINANT LEADERS)

ASPECT RATIO LESS THAN 0.66

EXAMPLE

A	B	ASPECT RATIO
1.5"	0.5"	0.33
2.5"	0.9"	0.36
2.0"	1.0"	0.50
2.5"	1.6"	0.64

ASPECT RATIO OF B:A LESS THAN 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.

REJECTABLE

MULTIPLE LEADERS (SEVERAL CODOMINANT LEADERS)

ASPECT RATIO GREATER THAN 0.66

EXAMPLE

A	B	ASPECT RATIO
2.5"	1.8"	0.72
2.0"	2.0"	1.0
2.5"	2.0"	0.80
4.0"	3.0"	0.75

ASPECT RATIO OF B:A GREATER THAN OR EQUAL TO 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.

NOTES:

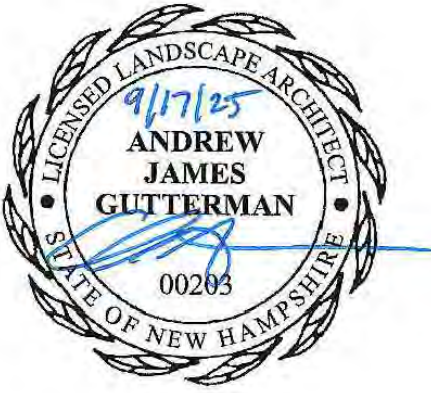
- ASPECT RATIO SHALL BE LESS THAN 0.66 ON ALL BRANCH UNIONS. ASPECT RATIO IS THE DIAMETER OF BRANCH (B) DIVIDED BY THE DIAMETER OF THE TRUNK (A) AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.
- ANY TREE NOT MEETING THE CROWN OBSERVATIONS DETAIL MAY BE REJECTED.
- DETAIL DEVELOPED BY THE URBAN TREE FOUNDATION AND IS OPEN SOURCE AND FREE TO USE BY OTHERS.

SECTION 015639 TEMPORARY TREE AND SOIL PROTECTION		fertilization shall be submitted by Certified Arborist for Owner's approval.	
PART 1 GENERAL	1.1	RELATED DOCUMENTS	1.7
	A.	Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.	A.
	1.2	WORK INCLUDED	1.8
	A.	Protection of existing trees, plants and soil from damage as a result of the Contractor's operations including, but not limited to: 1. Tree protection plan. 2. Tree and soils protection fencing. 3. Critical root zone protection. 4. Pre-construction root invigoration and deep root watering by certified arborist 5. Pre-construction root pruning by certified arborist 6. Fertilization of preserved trees. 7. Root pruning and construction pruning. 8. Fencing of areas designated for tree or plant removals.	A.
	B.	Contractor is directed to prevent construction activities from occurring on soil to the greatest extent possible and redirect them to paved areas. Where construction activities must take place on soils, those activities shall be constrained within the limits reviewed with the Owner and Architect.	
	C.	Much of the work required under this Section will be performed by a Certified Arborist. This Arborist will be approved by the Owner and paid for by the Contractor.	
	1.3	RELATED REQUIREMENTS	1.9
	A.	Examine Contract Documents for requirements that affect work of this Section. Other Specification Sections that directly relate to work of this Section include, but are not limited to: 1. Section 311300, SELECTIVE TREE REMOVAL AND TRIMMING. 2. Section 312300, SITE EXCAVATING, BACKFILLING AND COMPACTING. 3. Section 312317 SPECIALIZED SOIL EXCAVATION; work within existing tree critical root zones. 4. Section 329300, PLANTING; New plant material.	A.
	1.4	REFERENCED STANDARDS	B.
	A.	Comply with applicable requirements of the following standards. Where these standards conflict with other specified requirements, the most restrictive requirements	
shall govern.			
1. American National Standards Institute (ANSI): Z133.1 Safety Requirements for Pruning, Trimming, Repairing, Maintaining and Removing Trees, and for Cutting Brush.			
2. International Society of Arboriculture (ISA): Guide Guide for Establishing Values of Trees and Other Plants			
3. National Arborist Association (NAA): Ref. 1 Pruning Standards for Shade Trees			
1.5	DEFINITIONS		
A.	Certified Arborist: An individual engaged in the profession of arboriculture who, through experience, education and related training, possesses the competence to provide for, or supervise the management of, trees and other woody ornamentals, approved by the Owner, and hired by the Contractor, with a minimum five years experience, who has successfully completed a certification program equal to the Certified Arborist program/examination sponsored by the International Society of Arboriculture (ISA).		
B.	Critical Root Zone (CRZ): The minimum volume of roots necessary for maintenance of tree health and stability, typically determined by measuring the tree diameter 4.5 ft. above grade and multiplying by 12 in., a minimum radius of 10' from the trunk, or at the tree's dripline, whichever is farthest from the trunk, or as otherwise indicated on the Drawings, or established in the field. CRZ will be determined/established on a case by case basis by the Arborist and approval by the Architect.		
C.	Compacted Soil: A high density soil lacking structure and porosity characterized by restricted water infiltration and percolation (drainage), and limited root penetration.		
D.	Dripline; an imaginary line defined by the branch spread; the farthest extension of the tree branches (dripline).		
1.6	SUBMITTALS		
A.	Prepare and submit a "Logistics Plan for Tree and Soil Protection", indicating the extent of tree and soils protection fencing required, and areas where soil compaction prevention measures shall be implemented. Show all areas of proposed staging, vehicle or equipment access, trenching, excavating, or other disturbance to soils. 1. Proposed plan will be reviewed and approval by the Owner. No work of this Section shall commence prior to approval.		
B.	Proposed methods, materials, and schedule for effecting tree and soil protection within the limits indicated on the Logistics Plan for Tree and Soil Protection.		
C.	Mitigation or preventative maintenance operations such as root pruning and tree		
		1.8	
		A.	
		1. Project requirements for tree and soil protection measures as set out in Contract Documents. 2. Manufacturer's product data including application instructions. 3. Limits where tree protection measures shall be implemented. 4. Limits where soil protection measures shall be implemented. 5. Areas of proposed staging, vehicle or equipment access, trenching, excavating, or other disturbance to soils.	
		1.9	
		A.	
		B.	
		1. Membership in: a. NAA – National Arborist Association b. ISA – International Society of Arborists 2. Meet state requirements for insurance. 3. Licenses for application and use of pesticides.	
		C.	
		1.10	
		A.	
		B.	
		C.	
		D.	
		E.	
		PART 2 PRODUCTS	
		2.1	
		A.	
		1. Galvanized chain link fencing, 6 ft. high. 2. Fabric shall be a good commercial quality of steel wire of 2 in. mesh and 11 gage. 3. Fittings shall be malleable iron casting, wrought iron forgings, or pressed steel and provided with pin connections. Equipment shall be designed to carry 100% overload. 4. Piping shall be steel conforming to ASTM A 120 except that pipe shall be unthreaded and untested for water pressure.	
		B.	
		C.	
		D.	
		E.	
		F.	
		1. A warning sign shall be displayed on the street side and/or walkway side of the fence. The size of the sign must be no less than 8.5 x 11 inches. The sign must clearly state in bold red lettering: "Tree and Soil Protection Zone". The sign shall clearly list the name and current contact information of the project owner or authorized representative.	
		2.2	
		A.	
		2.3	
		A.	
		B.	
		1. Road Mats: Critical root zones shall be protected with AlturnaMats, 1/2" thick recycled polyethylene mats capable of supporting vehicles and equipment weighing up to 60 tons, manufactured by AlturnaMats, Inc., 701 E. Spring Street, Mailbox #9, Titusville, PA 16354 • Phone: 888.544.6287 • Fax: 866-723-2903 , or approved equal. 2. Steel Plates: ½ in. thick steel plates shall be placed on top of wooden cribbing to allow for air and gas exchange in soils. 3. Crushed Stone: shall be an angular, washed, durable, dense graded 3/4". crushed stone, crushed and screened through a 3/4" square screen. Following the crushing and screening of the crushed stone, it shall be cleaned extensively to ensure that it is free from stone dust and other residues. 4. Mulch: shall be 100% wood and bark chips free from dye, debris and stones, shredded and stockpiled no less than six months and no more than two years before use.	
		2.4	
		A.	
		PART 3 EXECUTION	
		3.1	
		A.	
		1. Flag trees to be preserved in accordance with approved Logistics Plan for Tree and Soil Protection. 2. Flag trees to be removed in accordance with approved Logistics Plan for Tree and Soil Protection. 3. Stake out extents of construction disturbance for review and approval by Owner and Architect, in accordance with approved Logistics Plan for Tree and Soil	
		Protection.	
		3.2	
		A.	
		1. Immediate pruning and fertilization shall occur per the pruning and fertilization sections of this specification. 2. Provide water in a slow drip manner to impacted trees as approved by the Architect and Owner. 3. Provide water to apply equivalent to 1 inch once per week to deeply soak in over the area within the dripline of the tree during periods of hot, dry weather. 4. Spray tree crowns periodically to reduce dust accumulation on the leaves.	
		B.	
		C.	
		3.3	
		A.	
		1. Includes associated understorey.	
		B.	
		1. All trees to remain shall be flagged for review after the location of improvements to be constructed are staked in the field. 2. Any tree to be removed shall be reviewed by the Owner and Architect for approval prior to removal. 3. Obtain approval of installation of tree barricade fencing from Owner and Architect prior to the initiation of any removal of vegetation and construction.	
		C.	
		1. Fencing shall be installed at the tree and soil protection areas indicated on the Drawings and approved submittals. 2. Fencing shall be installed on a tree by tree basis, beyond the drip line of trees to be protected or as shown on Construction Drawings, unless otherwise approved by the Owner and Architect. a. For trees 10 inch caliper and less, the minimum distance the barrier shall be erected is ten (10) feet from the trunk of tree or clump of trees.	

SASAKI

NOT ISSUED FOR CONSTRUCTION

Seal



ST. PAUL'S SCHOOL
NEW SQUASH CENTER

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

OWNER/APPLICANT:
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325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040
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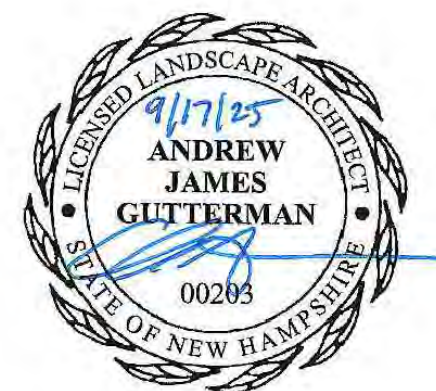
LANDSCAPE SPECIFICATIONS

SHEET
L10-00

SASAKI

NOT ISSUED
FOR
CONSTRUCTION

Seal



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CONCORD, NEW HAMPSHIRE

Nobis Project No: 100811.040
Sasaki Project No: 250018.00
Drawn By: SASAKI - KAF
Checked By: SASAKI - AG
Approved By: SASAKI - ZC
Issue Date: 09.20.2025

SHEET TITLE

LANDSCAPE SPECIFICATIONS

SHEET
L10-01

SECTION 311300 SELECTIVE TREE REMOVAL AND TRIMMING			
PART 1	GENERAL		
1.1	RELATED DOCUMENTS		
A.	Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.		
1.2	WORK INCLUDED		
A.	Provide all work necessary to perform selective clearing within the limits indicated on the Drawings and as specified herein. Selective clearing work shall include, but not be limited to, the following: 1. Tree pruning. 2. Cabling and guying of trees. 3. Flush cutting shrubs and trees, and grinding of stumps and backfilling of holes with clean fill and topdress with 6 in. loam. 4. Weeping tree crotches and cavities. 5. Removal of deadwood and brush. 6. Removal of all rubbish, debris, and other materials to be disposed of as a result of the work of this section.		
1.3	RELATED WORK		
A.	Examine Contract Documents for requirements that affect work of this Section. Other Specification Sections that directly relate to work of this Section include, but are not limited to: 1. Section 014000, QUALITY REQUIREMENTS; Inspection and testing. 2. Section 015639, TEMPORARY TREE AND SOIL PROTECTION. 3. Section 017419, CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL. 4. Section 024113, SELECTIVE SITE DEMOLITION AND REMOVALS; Clearing and grubbing and removal and disposal of felled trees and stumps outside of the work limits of this section. 5. Section 312317, SPECIALIZED SOIL EXCAVATION		
1.4	REFERENCES		
A.	Comply with applicable requirements of the following standards. Where these standards conflict with other specified requirements, the most restrictive requirements shall govern. 1. American National Standards Institute (ANSI): A300 Best management practices Tree Support Systems: Cabling, Bracing, and Guying Z133.1 Safety Requirements for Pruning, Trimming, Repairing, Maintaining and Removing Trees, and for Cutting Brush Z133A Best Management Practices Tree and Shrub Fertilization 2. Tree Care Industry Association, 3537 Stratford Rd., Wantagh, NY 11793 (TCIA): Ref. 1 Pruning Standards for Shade Trees Ref. 2 Standard for Fertilizing Shade and Ornamental Trees Ref. 3 Bracing, Cabling and Guying Standard for Shade Trees.		
1.5	SUBMITTALS		
A.	The Contractor shall submit to the Architect for review, proposed methods and materials for selective clearing, including a schedule indicating specific dates for implementing specific work items in each major work area.		
1.6	QUALITY ASSURANCE		
A.	Selective clearing methods shall conform to the applicable requirements of ANSI Z133.1		
B.	Selective pruning methods shall conform to the applicable requirements of ANSI Z133.1.		
C.	Work of this section shall be completed by a professional ISA Certified Arborist with a minimum five years experience, who has successfully completed an exam and education program equal to the International Society of Arboriculture (ISA) Certification Program, sponsored by the International Society of Arboriculture 2009, P.O. Box 3129, Champaign, IL 61826 (217) 355-9411; Email: isa@isa-arbor.com.		
PART 2	PRODUCTS		
2.1	CABLES AND GUYING MATERIALS:		
A.	Materials for guying and cabling trees shall conform to NAA Ref. 2.		
PART 3	EXECUTION		
3.1	TREE PRUNING		
A.	Tree pruning shall be "Class II Medium Pruning" conforming to TCIA Ref. 1.unless otherwise noted. Work shall conform to the requirements of ANSI Z133.1. 1. Class II Pruning: Medium Pruning the removal of dead, dying, diseased, interfering, objectionable, obstructing, and weak branches,a s well as selective thinning to lessen wind resistance; an occasional branch as described , up to 1 in. diameter may remain within the main leaf area up to its full length when it is not practical to remove it.		
B.	Schedule of trees to be pruned and extent of pruning shall be as indicated on the Drawings. Tree pruning shall be as directed and approved by the Architect and Owner.		
3.2	CROWN PRUNING (Compensation for Root Zone Damage)		
A.	To compensate for root zone damage due to trenching, tunneling or other construction operations, Certified Arborist shall prune top of tree to approximate per cent of root zone area that has been damaged.		
B.	Crown pruning shall consist of pruning the tree crown to compensate for root zone damage due to construction operations. Crown pruning shall include a fertilization/insecticide program. Tree crown should be pruned to the approximate percent of the root zone that has been damaged.		
3.3	GOVERNING STANDARDS - PRUNING		
A.	Work procedures will be guided by the current provisions of the American National Standard Institute. Complete detail of the provisions are to be found in the references listed. The three basic objectives of the pruning operation shall include: 1. Hazard Reduction Pruning: Hazard reduction pruning shall be completed to remove visible hazards in a tree. Hazard pruning shall consist of one or more of the maintenance pruning types. 2. Crown Reduction Pruning: shall be performed in accordance with ANSI A300 Part 1 Pruning standards using the Reduce Method (7.4). A written description that details the location and size of branches to be removed shall be approved by the Architect and Certified Arborist prior to the start of work. 3. Maintenance Pruning: Maintenance pruning shall be completed to maintain and improve tree health and structure and includes hazard and crown reduction pruning.		
3.4	MAINTENANCE PRUNING TYPES		
A.	Both hazard reduction pruning and maintenance pruning shall consist of one or more of the following pruning types in accordance with ANSI A300: 1. Crown Cleaning: Crown cleaning shall consist of the selective removal of one or more of the following items: dead, dying, or diseased branches, weak branches, water sprouts and stubbed branches. 2. Crown Thinning: Crown thinning shall consist of the selective removal of branches to increase light penetration, air movement, and reduce weight. 3. Crown Raising: Crown raising shall consist of the removal of the lower branches of a tree to provide clearance. 4. Crown Reduction, or Crown Shaping: Crown reduction shall consist of decreasing the height and/or spread of a tree. 5. Vista Pruning: Vista pruning shall consist of selective thinning of framework limbs or specific areas of the crown. 6. Crown Restoration: Crown restoration pruning shall improve the structure, form and appearance of a tree which has been severely headed, vandalized, storm damaged or improperly pruned.		
3.5	UTILITY PRUNING		
A.	Utility pruning shall consist of one or more of the following items: 1. Trees Underneath: Pruning trees growing directly under and growing into the facility/utility space. 2. Trees Along Side: Pruning of trees growing directly along side and growing into or toward the facility/utility space.		
3.6	TREE REMOVAL		
A.	Trees indicated on the Drawings as "Remove" or trees tagged in the field by the Landscape Architect to be removed shall be felled. 1. Tags of each felled tree shall be saved and returned to the Architect.		
B.	Remove trees to permit installation of new construction. 1. Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated. 2. Trees shall be cut and stumps shall be removed to their full depth. Trees may be able to be pushed over, exposing complete root system; dig entire root mass and completely remove. a. Stumps shall be legally disposed of off-site. 3. Chip removed tree branches and legally dispose of off-site, or coordinate on-site reuse with Owner and Architect.		
C.	Fill depressions caused by tree removal operations with satisfactory soil material unless further excavation or earthwork is indicated. 1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches (200 mm), and compact each layer to a density equal to adjacent original ground.		
D.	Do not apply herbicide to remaining stumps or plant life to inhibit growth.		
E.	Burning shall not be permitted on-site.		
3.7	TREE CABLING AND GUYING		
A.	Cabling and guying methods shall conform to ANSI A300, Best Management Practices Tree Support Systems: Cabling, Bracing, and Guying. 1. Provide cabling and guying systems to accomplish structural support of the tree as scheduled on the Drawings.		
3.8	PRUNING GIRDLING ROOTS		
A.	Where specified in the schedule, the Contractor shall remove girdling roots from base of trees. Removal shall include sawing and splitting as required to remove roots.		
3.9	VINE REMOVAL		
A.	Vines shall be removed from trees.		
3.10	DEADWOOD AND BRUSH REMOVAL		
A.	Deadwood and brush within the limits of work indicated on the Drawings shall be disposed of as follows: 1. Brush, limbs, and other material less than 6 in. in diameter shall be chipped and stockpiled on-site in an area designated by the Architect.		
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NEW SQUASH CENTER

85, 87, 89 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

TAX MAP:
MAP 724Z/ LOT 1-10A
MAP 811Z LOT 1-A

OWNER/APPLICANT:
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SECTION 329300

PLANTING

PART 1 - GENERAL

1.1GENERAL PROVISIONS

A.Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS which are hereby made a part of this Section of the Specifications.

1.2DESCRIPTION OF WORK

A.Provide all materials and equipment, and do all work required to complete the planting, including trees, shrubs, and ground covers, as indicated on the Drawings and as specified.

B.The work of this Section also includes providing all equipment and materials and doing all work necessary to supply and place planting soils as indicated on the Contract Documents and as specified. Supplying and placement of planting soils shall include, but not be limited to:

1. Sampling and testing of topsoil, loam borrow and planting soil.

2. Supplying, placing, spreading and grading of planting soil.

1.3RELATED WORK

A.Examine Contract Documents for requirements that affect work of this Section. Other Specification Sections that directly relate to work of this Section include, but are not limited to:

1. Provision of waste management: Section 017419, Construction Waste Management and Disposal.

2. Section 02 4113, SITE DEMOLITION.

3. Section 31 1000, SITE CLEARING.

4. Section 31 2317, SPECIALIZED SOIL EXCAVATION; Work around existing trees.

5. Section 31 3000, EARTH MOVING; Excavation, backfill; establishment of subgrade elevations.

6. Section 32 9119, LANDSCAPE GRADING.

1.4REFERENCES

A.Comply with applicable requirements of the following standards. Where these standards conflict with other specified requirements, the most restrictive requirements shall govern. All standards shall include the latest additions and amendments as of the date of advertisement for bids.

1. American National Standards Institute, Inc. (ANSI):

Z60.1American Standard for Nursery Stock (Sponsor: American Nursery and Landscape Association)

A 300American National Standards for Tree Care Operations

2. American Society for Testing and Materials (ASTM):

C 136Sieve Analysis of Fine and Coarse Aggregates

D 422Particle-Size Analysis of Soils

E 11Wire-Cloth Sieves for Testing Purposes

F 405Corrugated Polyethylene (Pe) Tubing and Fittings

3. "Hortus Third", A Concise Dictionary of Plants Cultivated in the United States and Canada, Cornell University, L.H. Bailey Hortorium, MacMillan Publishing Co., New York, NY.

1.5DEFINITIONS

A.Finish Grade: Elevation of finished surfaces.

B.Subgrade: Surface or elevation of subgrade soil remaining after completing excavation, or top surface of a fill or backfill immediately beneath planting soil.

C.Topsoil: Soil that is present at the top layer of the existing soil profile at the Project site.

D.Loam: Soil that contains a combination of particles typically almost equal in parts sand, silt and clay and including organic matter.

E.Loam Borrow: Soil that contains a combination of particles typically almost equal in parts sand, silt and clay and including organic matter obtained from off-site sources.

F.Planting Soil: Unless otherwise indicated throughout this Section, the term "Planting Soil" shall apply to on-site blended topsoil or loam modified with planting soil components and soil amendments to meet the specific Planting Soil mix recommendations submitted by the testing laboratory.

1.6SUBMITTALS

A.Samples: The following samples shall be submitted:

MaterialSample Size or Quantity

Mulchone 1-gallon bag

Compostone 1-gallon bag

Tree stake24 in. length

B.Manufacturer's Product Data: Manufacturer's product data shall be submitted for the following materials:

Aluminum Sulfate

Fertilizer

Fungicide

Herbicide

Insecticide

Compost

C.Certificates: Labels from the manufacturer certifying that the product meets the specified requirements shall be submitted for the following materials:

Commercial fertilizer

Limestone

Compost

D.Test Reports: Test reports from an approved testing agency indicating compliance with the specifications shall be submitted for existing topsoil, amended planting soil and any other materials designated by the Architect.

1.7QUALITY ASSURANCE

A.Installer Qualifications: A qualified landscape installer whose work has resulted in successful establishment of plants. Installer shall provide evidence of the following credentials:

1. Professional Membership: Installer shall be a member in good standing of either the Professional Landcare Network or the American Nursery and Landscape Association.

2. Experience: Ten years' experience in landscape installation with a minimum of three successfully completed projects of similar size and scope as this Project.

3. Installer's Field Supervision: Require installer to maintain an experienced full-time supervisor on Project site when work is in progress.

1.8OWNER'S INSPECTION AND TESTING

A.Work will be subject to inspection at all times by the Owner and Architect. The Owner reserves the right to engage an independent testing laboratory in accordance with requirements of Section 014000, QUALITY REQUIREMENTS to analyze and test materials used in the construction of the work. Where directed by the Architect, the testing laboratory will make material analyses and will report to the Architect whether materials conform to the requirements of this specification.

1. Cost of tests and material analyses made by the testing laboratory will be borne by the Owner when they indicate compliance with the specification, and by the Contractor when they indicate non-compliance.

2. Testing equipment will be provided by and tests performed by the testing laboratory.

1.9CONTRACTOR'S INSPECTION AND TESTING

A.The Contractor shall engage an independent testing laboratory, experienced in the testing of agricultural soils and acceptable to the Architect, to perform the topsoil and planting soil tests and analyses specified herein. All costs associated with testing shall be the Contractor's responsibility.

1. Particle size analysis shall include the following gradient of mineral content:

USDA DesignationSize in mm

Gravel+ 2 mm

Very coarse sand1-2 mm

Coarse sand0.5-1 mm

Medium sand0.25-0.5 mm

Fine sand0.1-0.25 mm

Very fine sand0.05-0.1 mm

Silt0.002-0.05 mm

Clay< 0.002 mm

2. Chemical analysis shall include the following:

a. pH and buffer pH

b. percentage of organic content by oven-dried weight

c. Nutrient levels by parts per million, including phosphorus, potassium, magnesium, manganese, iron, zinc, and calcium. Nutrient test shall include testing laboratory recommendations for supplemental additions to the soil, if necessary, based on the requirements for locally-adapted ornamental horticultural plants. Recommendations shall include rates at which additives are to be applied.

d. Soluble salt by electrical conductivity of a 1:2 soil/water sample.

1.13DELIVERY, STORAGE, AND HANDLING

A.Digging Plant Material: Plants shall not be dug at the nursery or approved source until the Contractor is ready to transport them from their original locations to the site of the work or acceptable storage location with enough time to preclude shock. All plants shall be sun acclimated.

B.Transportation of Plant Material: Plants transported to the project in open vehicles shall be covered with tarpaulins or other suitable covers securely fastened to the body of the vehicle to prevent injury to the plants. Closed vehicles shall be adequately ventilated to prevent overheating of the plants. Plants shall not remain in darkened enclosed trailer for more than 48 hours cumulative.

1. Plants shall be kept moist, fresh, and protected at all times. Such protection shall encompass the entire period during which the plants are in transit, being handled, or are in temporary storage.

2. Unless otherwise authorized by the Architect, notify the Architect at least two working days in advance of the anticipated delivery date of any plant material. A legible copy of the bill of lading, showing the quantities, kinds, and sizes of materials included for each shipment shall be furnished to the Architect, if requested.

C.Storage: Unless specific authorization is obtained from the Architect, unprotected plants shall not remain on the site of work longer than three days prior to being planted.

1. Plants that are not planted immediately shall be protected as follows:

a. Earth balls shall be kept moist, not be allowed to dry or freeze, and their solidity carefully preserved.

2. Both the duration and method of storage of plant materials shall be subject to the approval of the Architect.

D.Handling of Plant Materials: Exercise care in handling plant materials to avoid damage or stress.

1.14REJECTION OF MATERIALS

A.Evidence of inadequate protection following digging, carelessness while in transit, or improper handling or storage, shall be cause for rejection.

B.Upon arrival at the temporary storage location or the site of the work, plants shall be inspected for proper shipping procedures. Plants with roots dried out, large branches broken, balls of earth broken or loosened, or areas of bark torn shall be subject to rejection by the Architect.

C.Rejected plants shall be removed from the area of work and replaced with same species of the required size and quality.

1.15DIGGING/PLANTING SEASONS

A.Planting shall only be performed when weather and soil conditions are suitable for planting the material specified, in accordance with locally accepted practice, approval of the Architect, and to maintain the Contractor's guarantee.

1. Spring Digging: Spring digging of plant materials may commence as soon as the ground has thawed and weather conditions make it practicable to dig at the nursery.

a. Deciduous plants shall not be dug after they have leafed out.

b. Broadleaf evergreens and conifers shall not be dug after new growth or candle push is visible.

2. Fall Digging: Fall digging of plant materials may commence after dormancy has begun and shall continue until such time as the ground has frozen or weather conditions make it impractical to work.

3. Planting Hazards: Season Sensitive species such as Oaks shall be planted only in Spring Season. Contractor shall coordinate the timing of all season sensitive planting with Owner and Landscape Architect.

B.Contractor shall provide schedule for conducting planting operations for review and approval by Owner.

1.16ACCEPTANCE FOR SUBSTANTIAL COMPLETION

A.The Architect shall inspect all work of this Section for Acceptance for Substantial Completion upon receipt of written notice of completion by the Contractor. The request shall be received at least ten calendar days before the anticipated date of inspection.

B.Acceptance of plant material by the Architect shall be for general conformance to specified size, character, and quality, and shall not diminish responsibility for full conformance to the Contract Documents.

C.Upon completion and reinspection of all repairs or renewals necessary in the judgement of the Architect, the Architect shall recommend that Acceptance for Substantial Completion of the work of this Section be given by the Owner.

D.Owner will have the opportunity to inspect all work of this Section for acceptance, and request repairs and renewals as necessary, prior to granting Acceptance for Substantial Completion.

E.Acceptance in Part

1. The work may be Accepted in parts when it is deemed to be in the Owner's best interest to do so, and when permission is given to the Contractor in writing to complete the work in parts.

2. Acceptance and use of such areas by the Owner shall not waive any other provisions of this Contract.

1.17MAINTENANCE

A.The Contractor shall maintain plant material until the completion of the guarantee period and Final Acceptance of work, as described in this Section.

1.18GUARANTEE

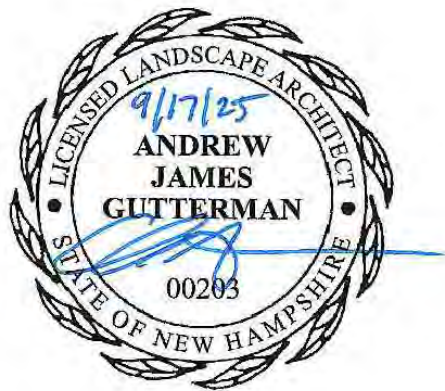
A.The Planning Board may require a financial guarantee for up to two (2) years to ensure the viability and/or replacement of required landscaping. Otherwise, plants shall be guaranteed for a period of one year after the date of Acceptance by the Owner.

1. When the work is Accepted in parts, the guarantee periods shall extend from each

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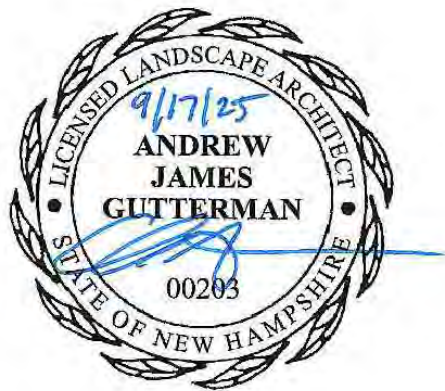
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- greater than 2 in., sticks, and other extraneous material. Scarify to 6 in. depth.
- 3.4 PLANT PIT EXCAVATION
- A. Planting pits for trees and shrubs shall be excavated to the depth and dimensions indicated on the Drawings.
- B. Excavation shall not begin until locations are approved by the Architect.
- 3.5 SOIL PLACEMENT - GENERAL
- A. Notify the Contracting Officer of soil placement operations at least seven calendar days prior to the beginning of work.
- B. Plan work to limit traffic on and compaction of soil during and after installation.
- C. Prevention of compacted soils can be accomplished by beginning the work in the center of planting area locations, against walls, or the center of isolated beds, and progressing outwards towards the borders.
1. Only low-pressure, tracked equipment that exerts less than 5 psi pressure shall be used for placement of soils, and repeated traffic will be limited to defined pathways that will be restored/reconditioned with completion of soil placement in each work area.
2. Traffic on or installation of wet soils is expressly prohibited.
- D. The Contractor shall not remove tree location stakes until trees and/or shrubs have been placed on site for review by the Contracting Officer.
- E. Placement of soil by back-blading is not acceptable. Back-blading causes sealing of the soil surface and inhibits air and moisture from penetrating the planting soil mix.
- 3.6 PLACEMENT OF PLANTING SOILS
- A. Planting soil shall be spread and placed to required depths, as indicated on the drawings.
- B. Surfaces shall be graded and smoothed, eliminating all sharp breaks by rounding, scraping off bumps and ridges, and filling in holes and cuts.
- C. Planting soil shall not be overcompacted. Planting soil shall not be handled when wet. Protect planting soil from vehicular traffic or excessive foot traffic after placement.
- 3.7 PLANTING
- A. Tree, shrub, perennial and groundcover beds shall be excavated to the depth and widths indicated on the Drawings. If the planting pit for any tree is dug too deep, soil shall be added to bring it to correct level, and the soil shall be thoroughly tamped. Walls of plant pits shall be dug so that they are sloped as shown on the Drawings, and scarified. Do not excavate compacted subgrades of adjacent pavement or structures.
- B. Plants shall be set as indicated on Drawings. Plants shall be set so that the root flare is at, or slightly above, finished grade. Plants shall have the same relationship to finished grade as in the nursery.
- C. Plants shall be turned to the desired orientation when required by Architect.
- A. Upon the appearance of insect problems, trunks of infected trees and trunks of trees of the same species within 1000 feet shall be sprayed with insecticide, applied as directed by chemical manufacturer.
- 3.12 STAKING
- A. Plants shall stand vertical and plumb after planting. Only in conditions where root ball is unable to hold tree in place shall stakes be used.
1. Set vertical stakes and space to avoid penetrating root balls or root masses. Ensure that stake penetrates undisturbed subgrade below prepared planting soil or pit. Affix Arbortie loosely such that bark and cambium are not restrained. Allow enough slack to avoid rigid restraint of tree.
2. 3 stakes shall be used per tree.
3. Staking shall not be used as a means to straighten trees.
4. Stakes shall not be placed to the southwest side of a tree trunk.
- 3.13 MULCHING - PLANTINGS
- A. Mulch shall be applied as follows (entire area listed shall be mulched):
- | Plant Type | Mulch Area | Mulch Depth, in. |
|--------------|------------------------------------|------------------|
| Tree | Saucer or as indicated in drawings | 3 |
| Shrub | Saucer or Bed | 2 |
| Ground Cover | Bed | 2 |
- Mulch shall not be allowed to cover the base of trunks or stems.
- 3.14 PRUNING
- A. Each tree and shrub shall be pruned only to preserve the natural character of the plant. Pruning shall be done after delivery of plants and after plants have been inspected and approved by the Architect. Pruning procedures shall be reviewed with Architect before proceeding.
- B. Pruning shall be done with clean, sharp tools. Cuts shall be made flush, leaving no stubs. No tree paint shall be used.
- C. Dead wood, suckers, and broken, weak, interfering and badly bruised branches shall be removed.
- 3.15 MAINTENANCE OF PLANTING
- A. Maintenance shall begin immediately after each plant is planted and shall continue until Final Acceptance as described in this document.
- B. Maintenance shall consist of pruning, watering, cultivating, weeding, mulching, fertilizing, removal of dead material, repairing and replacing of tree stakes, tightening and repairing of guys, adjusting and replacing of damaged tree wrap material, resetting plants to proper grades and upright position, and furnishing and applying such sprays as are necessary to keep plantings free of insects and disease, and in a healthy growing condition.
- C. Planting areas shall be kept free of weeds, grass, and other undesired vegetative growth.
- END OF SECTION
- D. Containerized plants shall be removed from container taking care not to damage roots. The side of the root ball shall be scarified to prevent root-bound condition before positioning in planting pit.
1. Check root ball after removing plant from its container. Encircling roots need to be gently loosened from the tight mat of root-bound plants. If roots are very dense at bottom of pot, slice off the bottom 1". If roots are seriously disturbed when planting, cut back some foliage to reduce the water stress that will occur. Plant at the same soil level as the plant was in its container.
2. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water.
3. Plant at the same soil level as the plant was in its container.
- E. Planting shall be positioned in center of planting pit, set plumb, and rigidly braced in position until all planting soil has been tamped solidly around the ball.
- F. Tree pits shall be backfilled with soil from the tree pit. Soil shall be worked carefully into voids and pockets, tamping lightly every 6 in.
1. When pit is two-thirds full, plants shall be watered thoroughly, and water left to soak in before proceeding.
2. At this time, ropes or strings on top of ball shall be cut. Burlap, rope, and string shall be removed entirely from root ball if possible.
3. Wire baskets shall be completely cut away from sides of root ball, and removed from pit. Remove entirely if possible.
4. Remove nursery plant identification tags.
5. Backfilling and tamping shall then be finished and a saucer formed around plant pits as indicated on the Drawings.
6. Saucer shall be filled with water and water left to soak in. Saucer shall then be filled with water again.
- G. Water thoroughly after planting, taking care not to cover plant crowns with wet soil.
- H. Protect plants from hot sun and wind; remove protection if plants show evidence of recovery from transplanting shock.
- 3.8 FERTILIZER APPLICATION
- A. Fertilizer, if required, shall be applied at the rates recommended by soil testing results, as specified in paragraph 2.2. Fertilizer shall not be applied to tree pits without approval from the owner or Architect.
- 3.9 FUNGICIDE
- A. At the first sign of fungal infection, all trunks of affected trees and all trunks of trees of the same species as affected trees within 1000 feet shall be sprayed with fungicide, applied as directed by chemical manufacturer.
- 3.10 POST- EMERGENT HERBICIDE
- A. Upon the appearance of weeds within planted areas, post-emergent herbicide shall be applied to ornamental shrub beds and around base of trees in areas where weeds are observed, in strict accordance with chemical manufacturer's printed instructions.
- 3.11 INSECTICIDE

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