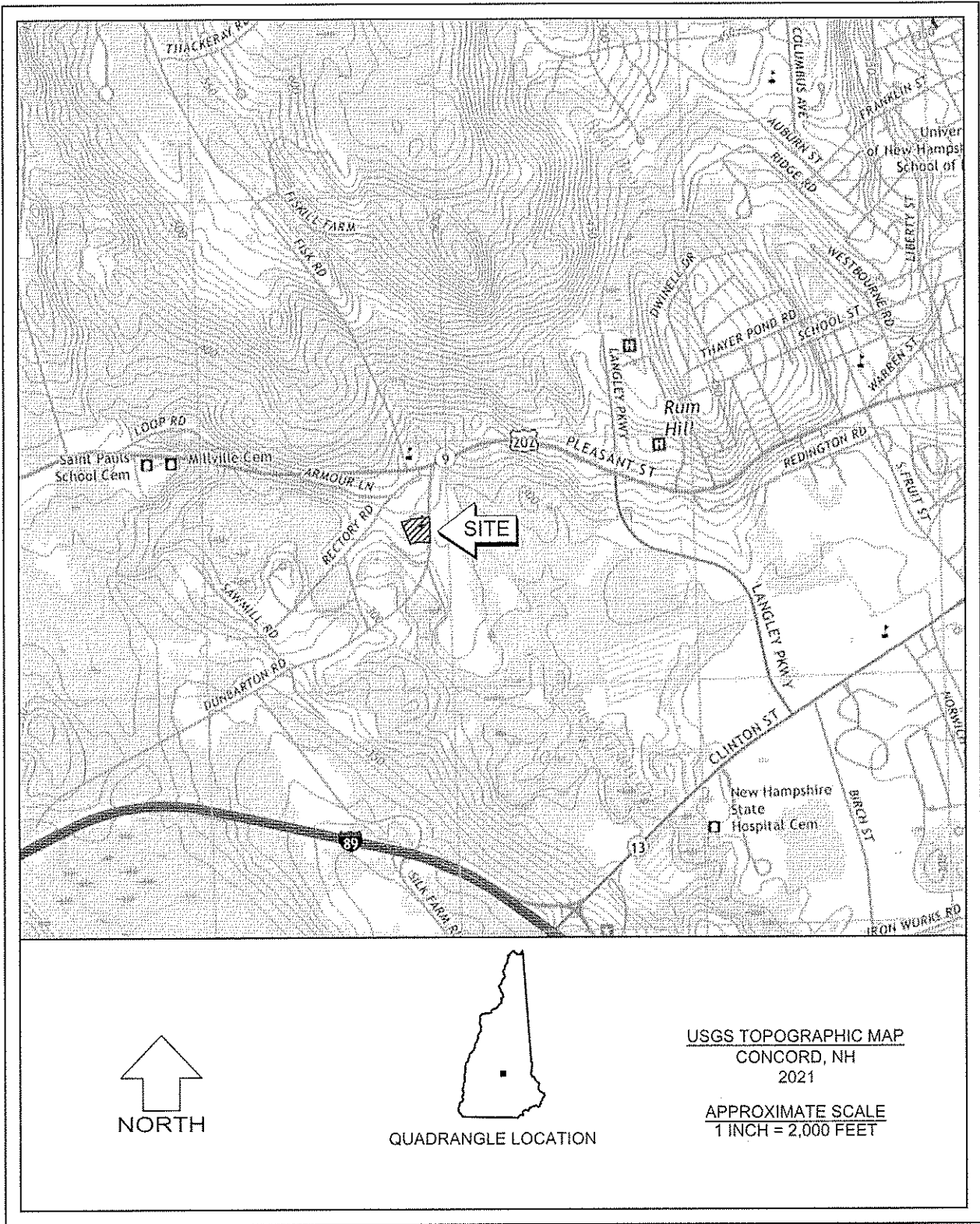


ST. PAUL'S SCHOOL ADMISSION CENTER

16 DUNBARTON ROAD
CONCORD, NEW HAMPSHIRE

SITE ENGINEER
NOBIS GROUP. - CONCORD, NH
ARCHITECT
CBT ARCHITECTS - BOSTON, MA
SURVEYOR
RICHARD D. BARTLETT & ASSOCIATES- CONCORD, NH
LANDSCAPE ARCHITECT
ARCADIS - BOSTON, MA
SITE LIGHTING
CHARRON INC. - REFLEX LIGHTING - HOOKSETT, NH



MARCH 15, 2023
REVISED MARCH 28, 2023
REVISED MAY 11, 2023
REVISED JUNE 30, 2023
REVISED JULY 10, 2023
REVISED AUGUST 2, 2023



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RECEIVED

AUG 08 2023

Planning Division
Concord, NH

PLANNING BOARD APPROVAL	
APPROVED BY CITY OF CONCORD, NH PLANNING BOARD	
ON	DATE
ON	May 17, 2023
DATE	
CONCORD PLANNING BOARD CHAIR	Aug. 9, 2023
DATE	
CONCORD PLANNING BOARD CLERK	8/14/23
DATE	

NOBIS PROJECT NO. 100469.000

LEGEND

EXISTING	PROPOSED	SUBJECT PROPERTY LINE	EXISTING	PROPOSED	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
---	---	BCC	---	---	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
---	---	RD	---	---	TEST PIT LOCATION
---	---	UD	---	---	BORING LOCATION
---	---	FD	---	---	MONITORING WELL LOCATION
---	---	SWALE FLOW DIRECTION	---	---	PERC. TEST LOCATION
---	---	X	---	---	PHOTO LOCATION / DIRECTION
---	---	OHW	---	---	MANHOLE
---	---	UGE	---	---	TELECOM MANHOLE
---	---	T	---	---	ELECTRIC MANHOLE
---	---	S	---	---	STEEP SLOPE
---	---	SS	---	---	
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---	---	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 - ADMISSIONS CENTER, 16 DUNBARTON ROAD, CONCORD, NH DATED MARCH 30, 2023 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 OF A PORTION OF LAND OF ST. PAUL'S SCHOOL", DATED JANUARY 3, 2023, BY RICHARD D. BARTLETT & ASSOCIATES, LLC.
- THESE DRAWINGS AND ACCOMPANYING TEXT HAVE BEEN PREPARED FOR ST. PAUL'S SCHOOL, FOR REVIEW BY THE CITY OF CONCORD PLANNING BOARD, CODE ENFORCEMENT, GENERAL SERVICES, POLICE, AND FIRE DEPARTMENTS.
- THE CONTRACTOR SHALL OBTAIN COVERAGE UNDER EPA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FOR CONSTRUCTION ACTIVITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND IMPLEMENTING AN ENVIRONMENTAL PROTECTION AGENCY (EPA) STORM WATER POLLUTION PREVENTION PLAN PRIOR TO THE START OF CONSTRUCTION AND DURING CONSTRUCTION ON-SITE IN ACCORDANCE WITH THE EPA REGULATIONS UNDER THE CLEAN WATER ACT.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CONCORD'S CONSTRUCTION STANDARDS AND DETAILS (LATEST EDITION), AND CITY STANDARDS SHALL TAKE PRECEDENCE IN CASE OF ANY DETAILS OR PLANS IN CONFLICT.
- ALL UTILITIES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH SECTION 25.02(1) OF THE SITE PLAN REGULATIONS.
- UPON COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS TO THE ENGINEERING SERVICES DIVISION PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- THE CONTRACTOR SHALL SET UP A PRECONSTRUCTION MEETING WITH THE ENGINEERING SERVICES DIVISION TO DISCUSS CONSTRUCTION REQUIREMENTS, SITE INSPECTIONS, ASSOCIATED FEES, SCHEDULES, ETC.
- THE CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT FROM THE CODE ADMINISTRATION DIVISION FOR THE REMOVAL OF THE EXISTING BUILDINGS(S).
- THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE ENGINEERING SERVICES DIVISION FOR WORK WITHIN THE ROW.
- THE CONTRACTOR SHALL OBTAIN UTILITY CONNECTION PERMITS FROM THE ENGINEERING SERVICES DIVISION FOR THE PROPOSED WATER SERVICE, SEWER SERVICE, AND STORM DRAIN CONNECTION(S). INDIVIDUAL PERMITS WILL BE REQUIRED FOR EACH CONNECTION.
- THE CONTRACTOR SHALL OBTAIN A DRIVEWAY PERMIT FROM THE ENGINEERING SERVICES DIVISION FOR THE PROPOSED DRIVEWAY.
- A TEMPORARY TRAFFIC CONTROL PLAN (TTCP) WILL BE REQUIRED FOR ALL WORK IN AND ADJACENT TO THE CITY ROW THAT WILL REQUIRE LANE CLOSURES. THE TTCP SHOULD BE SUBMITTED TO THE ESD FOR REVIEW AND APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO THE CONSTRUCTION ACTIVITIES THAT REQUIRE THE LANE CLOSURE(S).
- TRUCK TRAFFIC ON SPRING MUNICIPALLY POSTED ROADS WITH A WEIGHT RESTRICTION WILL NOT BE ABLE TO TRAVEL ON SAID MUNICIPAL POSTED ROADS. CONTRACTOR SHALL PLAN PROJECT SCHEDULE ACCORDINGLY.
- A LETTER SIGNED BY A QUALIFIED ENGINEER MUST BE PROVIDED TO DES STATING THAT THE INDIVIDUAL OBSERVED ANY UNDERGROUND DETENTION, INFILTRATION, OR FILTERING SYSTEMS PRIOR TO BACKFILLING, AND WHETHER, IN HIS OR HER PROFESSIONAL OPINION, THE SYSTEM(S) CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS.
- IF THE ESTIMATED VOLUME OF LEDGE REMOVAL IS GREATER THAN 5,000 CY, THE ENGINEER SHALL BE REQUIRED TO IDENTIFY DRINKING WATER WELLS LOCATED WITHIN 5,000 FEET OF THE PROPOSED BLASTING ACTIVITIES AND DEVELOP A GROUNDWATER QUALITY SAMPLING PROGRAM TO MONITOR FOR NITRATE AND NITRITE EITHER IN THE DRINKING WATER SUPPLY WELLS OR IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY WELLS IN THE AREA. THE PLAN MUST BE SUBMITTED TO NHDES FOR APPROVAL PRIOR TO PERMITTING AND MUST INCLUDE PRE AND POST BLAST WATER QUALITY MONITORING. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED AS APPROVED BY NHDES.

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.
- STORMWATER BASINS AND SWALES MUST BE INSTALLED BEFORE ROUGH GRADING THE SITE.
- EXCAVATE AND GRADE, THEN INSTALL LOAM, SEED, AND EROSION CONTROL MATTING TO STABILIZE DETENTION POND AND TREATMENT SWALES.
- REMOVE AND TEMPORARILY STOCKPILE LOAM AND TOPSOIL FOR REUSE, IF NEEDED, ON SITE. SEED AND/OR MULCH STOCKPILES AND ENCIRCLE WITH SILT FENCE.
- CONDUCT ALL UNDERGROUND UTILITY STRUCTURE AND PIPING INSTALLATION, BACKFILL, AND COMPACTING.
- CONSTRUCT BUILDING FOUNDATION.
- PLACE AND COMPACT NEW GRAVEL COURSES IN THE PARKING, LOADING, SIDEWALK, AND GRAVEL ACCESS DRIVE AREAS.
- PLACE, GRADE, AND STABILIZE DISTURBED AREAS WITH TEMPORARY SEEDING AND MULCHING.
- 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.

WILDLIFE PROTECTION NOTES:

- ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SHALL BE REPORTED IMMEDIATELY TO THE NHFAG NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2481 AND BY EMAIL AT nhfagreview@wildlife.nh.gov. WITH THE EMAIL SUBJECT LINE CONTAINING THE NHG DATABCHECK TOOL RESULTS LETTER ASSIGNED NUMBER, THE PROJECT NAME, AND THE TERM WILDLIFE SPECIES OBSERVATION.
- PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFAG 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 THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHFAG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHFAG, IF ANY, TO ASSURE THE PROJECT DOES NOT APPRECIABLY JEOPARDIZE THE CONTINUED EXISTENCE OF THREATENED AND ENDANGERED SPECIES AS DEFINED IN FIS 1002.04.
- THE NHFAG, INCLUDING IT 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 FALL 2023 WITH A FINAL COMPLETION DATE IN SUMMER 2024. 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 MUCH PROGRESSIVE 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.
- * PERFORM SOIL STABILIZATION MEASURE INCLUDING SEED, MULCH, FERTILIZER, MATTING, ETC.
- * REDIRECT FLOWS INTO FINISHED STRUCTURES PRIOR TO ILT 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 (MGL), RESPECTIVELY.

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

SPECIFICATIONS FOR TEMPORARY AND PERMANENT SEEDING:

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 REMOVAL 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.

REVISIONS

#	DATE	DESCRIPTION
1	03/28/2023	AOT SUBMITTAL
2	05/09/2023	RESPONSE TO COMMENTS
3	06/30/2023	CONSTRUCTION DOCUMENTS
4	07/10/2023	RESPONSE TO COMMENTS
5	08/02/2023	ADDENDUM #2.

ST. PAUL'S SCHOOL ADMISSION CENTER



St. Paul's School
325 PLEASANT STREET
CONCORD, NH 03301
TAX MAP 723Z / BLOCK 13 / LOT 1

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

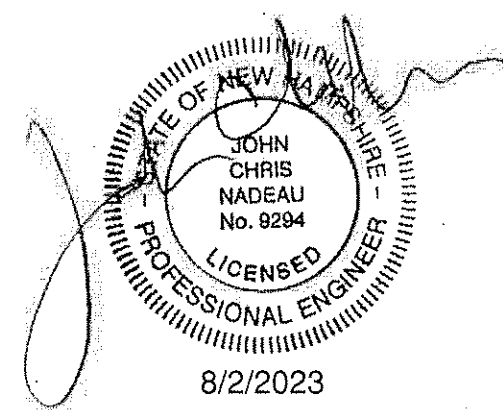
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617 262 4354 cbtarchitects.com
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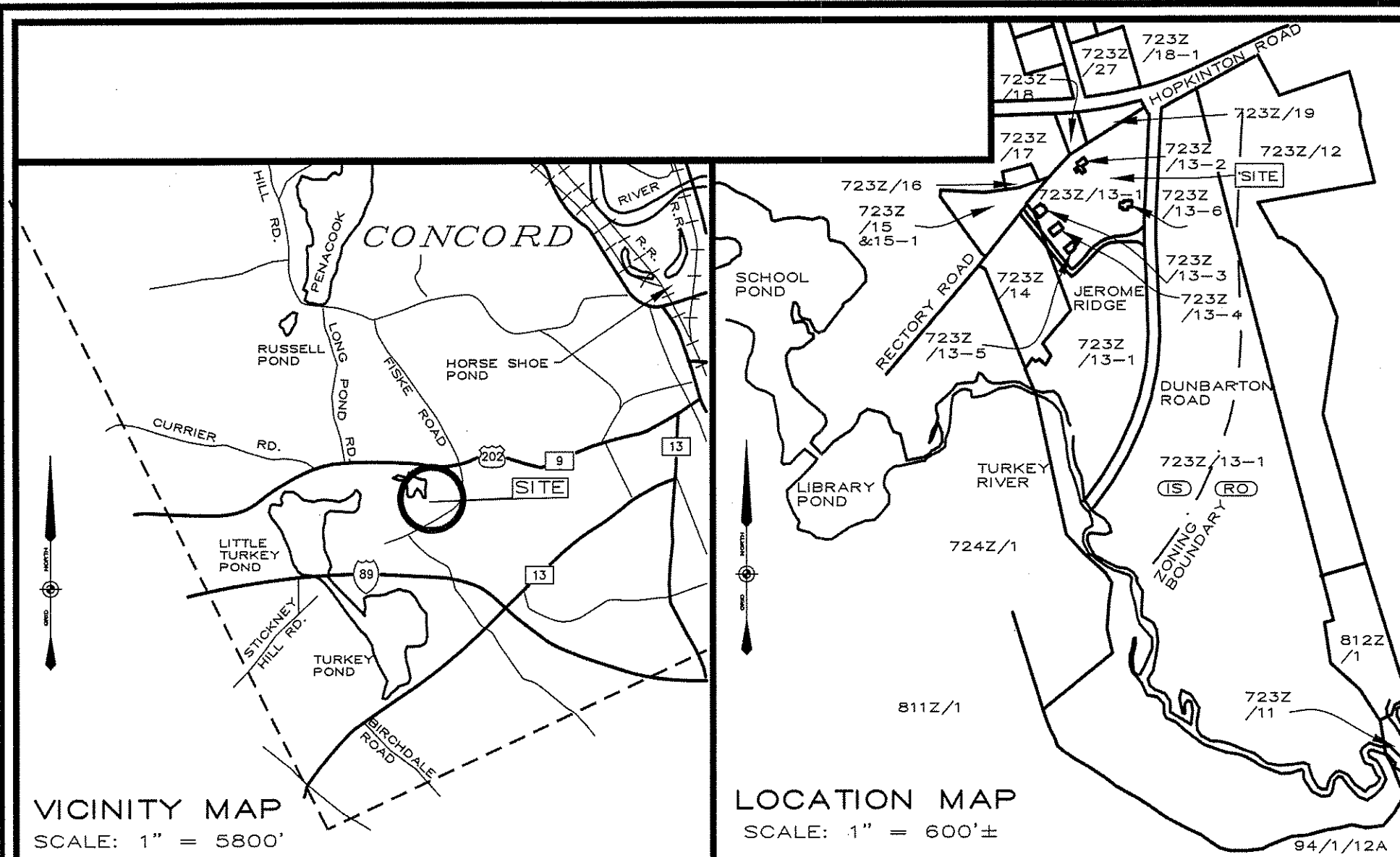
CONSTRUCTION DOCUMENTS

DATE:	MARCH 15, 2023
NOBIS PROJECT NO.	100564.010
DRAWN BY:	MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100564.010-XREF-BORDER - St. Pauls.dwg

GENERAL NOTES AND LEGEND

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

G-1



LEGEND

-----	PROPERTY LINE	●	CONIFEROUS TREE
-----	EDGE OF PAVEMENT	○	SHRUB
-----	EDGE OF GRAVEL	○	DECIDUOUS TREE
-----	OVERHEAD UTILITY LINES	○	ARTESIAN WELL
-----	DRAINAGE LINE	○	IRON PIPE (I.P.) OR REBAR
-----	SEWER LINE	○	STEEL PIN (SP)
-----	GAS LINE	○	GRANITE OR CONCRETE
-----	TEL. LINE	○	BOUND (CB OR CB)
-----	UNDERGROUND ELECT.	○	DRILL HOLE (DH)
-----	ALARM	○	UTILITY POLE
-----	HVE	○	LIGHT POLE
-----	CATV	○	SEWER MANHOLE
-----	STEAM LINE	○	DRAIN MANHOLE
-----	WATER LINE	○	CATCH BASIN
-----	SINGLE WHITE LINE	○	HYDRANT
-----	VERTICAL OR SLOPED	○	WATER SHUTOFF
-----	GRANITE CURB	○	WATER VALVE
-----	CHAIN LINK FENCE	○	IRRIGATION CONTROL VALVE
-----	STOCKADE FENCE	○	GAS SHUTOFF
-----	EDGE OF WOODS	○	MONITORING WELL
-----	CONCRETE	○	LANDSCAPED AREA
-----	SIGN HC-HANDICAPPED	○	
-----	HGV-VAN ACCESSIBLE	○	
-----	NP-NO PARKING	○	

CERTIFICATIONS

"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: *Richard D. Bartlett* LICENSE NO. 859 DATE: 4/24/23

- NOTES**
- Survey by total station between the dates of November 19 and December 19, 2022. Control Traverse error of closure 1:330,794'.
 - Horizontal datum is based on New Hampshire State Plane Coordinate System NAD 83 based on GPS observations and OPUS solutions.
 - Vertical datum is based on NAVD 88.
 - The underground utilities depicted hereon have been located from field survey information and plotted on 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.
 - The site was assessed for the presence of wetlands by John St. John, CWS No. 221, On November 10, 2022. No wetlands were determined to exist in accordance with the techniques outlined in the Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1, January 1987 using current soil indicators, and plant list.
 - The subject area is zoned IS: building setbacks: front 30', rear 30', side 25', minimum frontage 150', minimum lot size 25,000 Sq. Ft., maximum lot coverage 75%.
 - Owner of record: St. Paul's School - 325 Pleasant Street Concord, NH 03301 - Map 723Z, Lots 13-1 & 13-6. V. 448 P. 229, V. 206 P. 170 & V. 181 P. 194.
 - The premises does not fall within a Flood Hazard Area as shown on the Flood Insurance Rate Map for Concord, NH Map Number 33013C0530E having an effective date of April 19, 2010.

ABUTTERS

LIDAPAR REALTY, LLC
33 Pleasant Street
Concord, NH 03301
V. 2726 P. 1215
Map 723Z Lot 27

ST. PAUL'S SCHOOL
325 Pleasant Street
Concord, NH 03301
(Land Holdings)
Map 723Z Lots 11,12,14,15,16,17,18,19,28-1
Map 724Z Lot 1
Map 811Z, Lot 1
(Interior & abutting buildings)
Map 723Z, Lot 13-2 through 13-5,
& 13-7 through 13-16, 13-18
(Tennis Courts)
Map 723Z Lot 17

RECTORY ROAD

DUNBARTON ROAD

MATCH TO SHEET 2

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

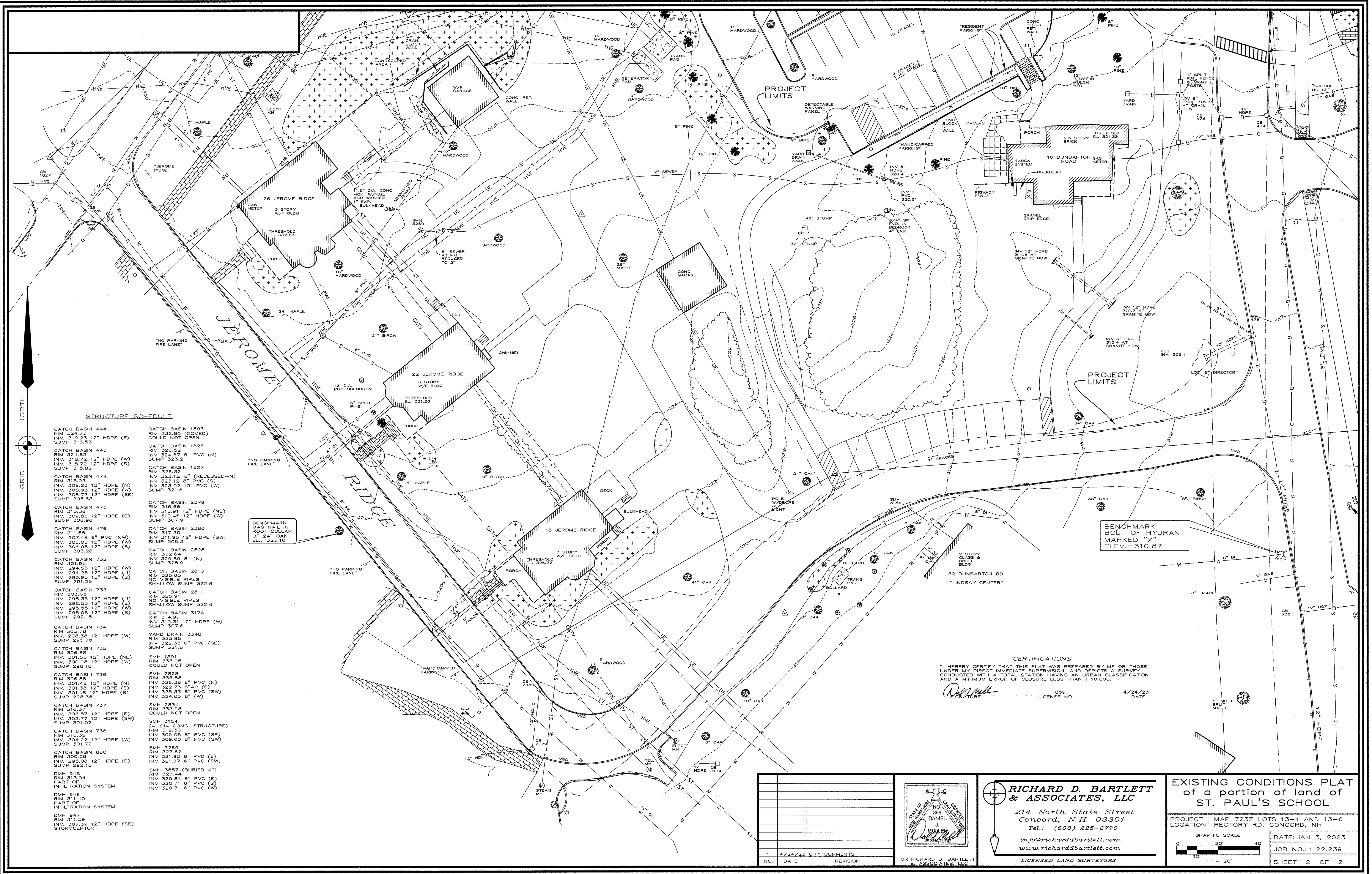
EXISTING CONDITIONS PLAT
of a portion of land of
ST. PAUL'S SCHOOL

PROJECT: MAP 723Z LOTS 13-1, & 13-6
LOCATION: RECTORY RD. CONCORD, NH

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

DATE: JAN 3, 2023
JOB NO.: 1122.239
SHEET 1 OF 2

4376-3



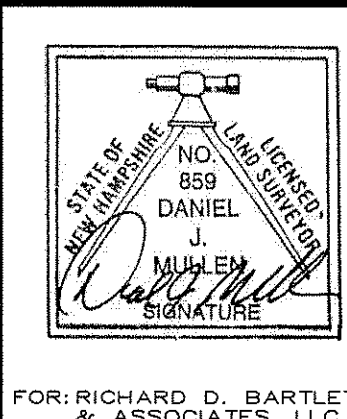
STRUCTURE SCHEDULE

- CATCH BASIN 444
RIM 324.73
INV. 315.23 12" HDPE (E)
SUMP 316.53
- CATCH BASIN 445
RIM 324.62
INV. 318.72 12" HDPE (W)
INV. 318.72 12" HDPE (S)
SUMP 315.82
- CATCH BASIN 474
RIM 315.23
INV. 309.23 12" HDPE (N)
INV. 308.93 12" HDPE (W)
INV. 308.73 12" HDPE (SE)
SUMP 305.63
- CATCH BASIN 475
RIM 315.36
INV. 308.86 12" HDPE (E)
SUMP 306.96
- CATCH BASIN 476
RIM 311.58
INV. 307.48 6" PVC (NW)
INV. 306.08 12" HDPE (W)
INV. 306.08 12" HDPE (S)
SUMP 303.28
- CATCH BASIN 732
RIM 301.05
INV. 294.55 12" HDPE (W)
INV. 294.25 12" HDPE (N)
INV. 293.95 15" HDPE (S)
SUMP 291.25
- CATCH BASIN 733
RIM 303.65
INV. 298.35 12" HDPE (N)
INV. 298.55 12" HDPE (E)
INV. 295.55 12" HDPE (W)
INV. 295.05 12" HDPE (S)
SUMP 292.15
- CATCH BASIN 734
RIM 303.78
INV. 298.38 12" HDPE (W)
SUMP 295.78
- CATCH BASIN 735
RIM 306.88
INV. 301.58 12" HDPE (NE)
INV. 300.98 12" HDPE (W)
SUMP 298.18
- CATCH BASIN 736
RIM 306.88
INV. 301.48 12" HDPE (N)
INV. 301.38 12" HDPE (E)
INV. 301.18 12" HDPE (S)
SUMP 298.38
- CATCH BASIN 737
RIM 310.37
INV. 303.67 12" HDPE (E)
INV. 303.77 12" HDPE (SW)
SUMP 301.07
- CATCH BASIN 738
RIM 310.32
INV. 304.22 12" HDPE (W)
SUMP 301.72
- CATCH BASIN 880
RIM 300.38
INV. 295.08 12" HDPE (E)
SUMP 295.18
- DMH 945
RIM 313.04
PART OF INFILTRATION SYSTEM
- DMH 946
RIM 311.40
PART OF INFILTRATION SYSTEM
- DMH 947
RIM 311.59
INV. 307.39 12" HDPE (SE)
STORMSECTOR
- CATCH BASIN 1593
RIM 332.80 (DOMED)
COULD NOT OPEN
- CATCH BASIN 1826
RIM 326.52
INV. 324.67 8" PVC (N)
SUMP 323.2
- CATCH BASIN 1827
RIM 326.32
INV. 323.14 8" (RECESSED-N)
INV. 323.12 8" PVC (S)
INV. 323.02 10" PVC (W)
SUMP 321.6
- CATCH BASIN 2379
RIM 316.66
INV. 310.91 12" HDPE (NE)
INV. 310.48 12" HDPE (W)
SUMP 307.9
- CATCH BASIN 2380
RIM 317.30
INV. 311.95 12" HDPE (SW)
SUMP 309.3
- CATCH BASIN 2528
RIM 332.64
INV. 329.86 8" (N)
SUMP 328.9
- CATCH BASIN 2810
RIM 325.65
NO VISIBLE PIPES
SHALLOW SUMP 322.6
- CATCH BASIN 2811
RIM 325.91
NO VISIBLE PIPES
SHALLOW SUMP 322.6
- CATCH BASIN 3174
RIM 314.88
INV. 310.31 12" HDPE (W)
SUMP 307.6
- YARD DRAIN 3348
RIM 323.95
INV. 322.35 6" PVC (SE)
SUMP 321.8
- SMH 1591
RIM 333.95
COULD NOT OPEN
- SMH 2828
RIM 333.58
INV. 328.38 8" PVC (N)
INV. 322.73 8" AC (E)
INV. 325.33 8" PVC (SW)
INV. 324.03 8" (W)
- SMH 2834
RIM 333.95
COULD NOT OPEN
- SMH 3154
(4' DIA. CONC. STRUCTURE)
RIM 318.30
INV. 309.05 8" PVC (SE)
INV. 309.00 8" PVC (SW)
- SMH 3269
RIM 327.62
INV. 321.92 6" PVC (E)
INV. 321.77 6" PVC (SW)
- SMH 3857 (BURIED 4")
RIM 327.44
INV. 320.84 6" PVC (E)
INV. 320.71 6" PVC (S)
INV. 320.71 6" PVC (W)

BENCHMARK
BOLT OF HYDRANT
MARKED "X"
ELEV.=310.87

CERTIFICATIONS
"I HEREBY CERTIFY THAT THIS PLAN 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
SIGNATURE
859
LICENSE NO.
4/24/23
DATE

NO.	DATE	REVISION
1	4/24/23	CITY COMMENTS



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
of a portion of land of
ST. PAUL'S SCHOOL
PROJECT: MAP 723Z LOTS 13-1 AND 13-6
LOCATION: RECTORY RD. CONCORD, NH
GRAPHIC SCALE
0' 20' 40'
1" = 20'
DATE: JAN 3, 2023
JOB NO.: 1122.239
SHEET 2 OF 2

NOTES:

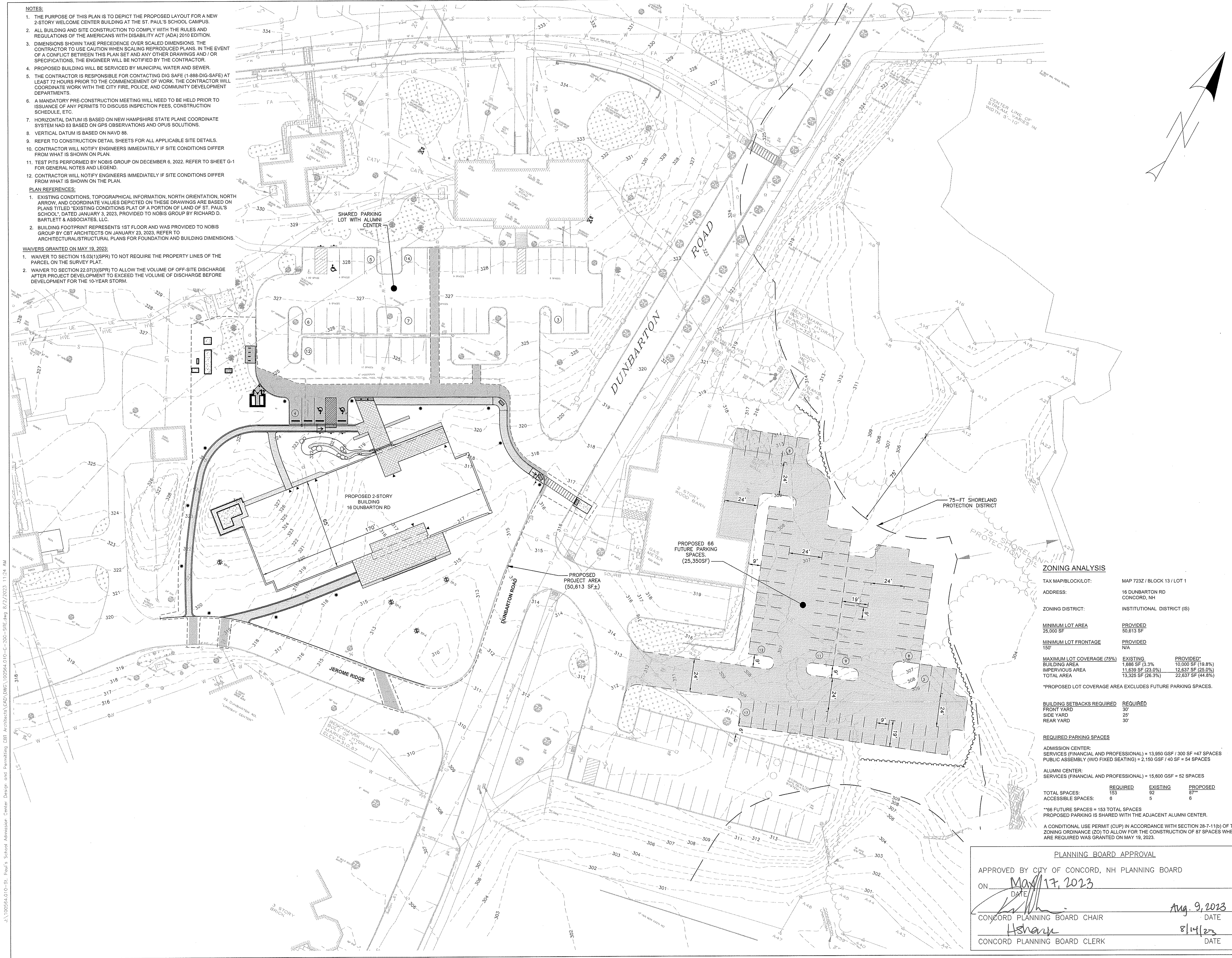
1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE PROPOSED LAYOUT FOR A NEW 2-STORY WELCOME CENTER BUILDING AT THE ST. PAUL'S SCHOOL CAMPUS.
2. ALL BUILDING AND SITE CONSTRUCTION TO COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITY ACT (ADA) 2010 EDITION.
3. DIMENSIONS SHOWN TAKE PRECEDENCE 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 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. HORIZONTAL DATUM IS BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM NAD 83 BASED ON GPS OBSERVATIONS AND OPUS SOLUTIONS.
8. VERTICAL DATUM IS BASED ON NAVD 88.
9. REFER TO CONSTRUCTION DETAIL SHEETS FOR ALL APPLICABLE SITE DETAILS.
10. CONTRACTOR WILL NOTIFY ENGINEERS IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
11. TEST PITS PERFORMED BY NOBIS GROUP ON DECEMBER 6, 2022. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.
12. CONTRACTOR WILL NOTIFY ENGINEERS IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON THE PLAN.

PLAN REFERENCES:

1. EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "EXISTING CONDITIONS PLAT OF A PORTION OF LAND OF ST. PAUL'S SCHOOL", DATED JANUARY 3, 2023, PROVIDED TO NOBIS GROUP BY RICHARD D. BARTLETT & ASSOCIATES, LLC.
2. BUILDING FOOTPRINT REPRESENTS 1ST FLOOR AND WAS PROVIDED TO NOBIS GROUP BY CBT ARCHITECTS ON JANUARY 23, 2023. REFER TO ARCHITECTURAL/STRUCTURAL PLANS FOR FOUNDATION AND BUILDING DIMENSIONS.

WAIVERS GRANTED ON MAY 19, 2023:

1. WAIVER TO SECTION 15.03(1)(SPR) TO NOT REQUIRE THE PROPERTY LINES OF THE PARCEL ON THE SURVEY PLAT.
2. WAIVER TO SECTION 22.07(3)(SPR) TO ALLOW THE VOLUME OF OFF-SITE DISCHARGE AFTER PROJECT DEVELOPMENT TO EXCEED THE VOLUME OF DISCHARGE BEFORE DEVELOPMENT FOR THE 10-YEAR STORM.



ZONING ANALYSIS

TAX MAP/BLOCK/LOT:	MAP 723Z / BLOCK 13 / LOT 1	
ADDRESS:	16 DUNBARTON RD CONCORD, NH	
ZONING DISTRICT:	INSTITUTIONAL DISTRICT (IS)	
MINIMUM LOT AREA	25,000 SF	PROVIDED 50,613 SF
MINIMUM LOT FRONTAGE	150'	PROVIDED N/A
MAXIMUM LOT COVERAGE (75%)	EXISTING 1,686 SF (3.3%) BUILDING AREA 11,639 SF (23.0%) IMPERVIOUS AREA 13,325 SF (26.3%)	PROVIDED* 10,000 SF (19.8%) 12,637 SF (25.0%) 22,637 SF (44.8%)
*PROPOSED LOT COVERAGE AREA EXCLUDES FUTURE PARKING SPACES.		

BUILDING SETBACKS REQUIRED	REQUIRED
FRONT YARD	30'
SIDE YARD	25'
REAR YARD	30'

REQUIRED PARKING SPACES

ADMISSION CENTER:
SERVICES (FINANCIAL AND PROFESSIONAL) = 13,950 GSF / 300 SF = 47 SPACES
PUBLIC ASSEMBLY (W/ FIXED SEATING) = 2,150 GSF / 40 SF = 54 SPACES

ALUMNI CENTER: SERVICES (FINANCIAL AND PROFESSIONAL) = 15,600 GSF = 52 SPACES	
TOTAL SPACES:	153
ACCESSIBLE SPACES:	8
	REQUIRED 153 8
	EXISTING 92 5
	PROPOSED 87** 6

**66 FUTURE SPACES = 153 TOTAL SPACES
PROPOSED PARKING IS SHARED WITH THE ADJACENT ALUMNI CENTER.

A CONDITIONAL USE PERMIT (CUP) IN ACCORDANCE WITH SECTION 28-7-11(b) OF THE ZONING ORDINANCE (ZO) TO ALLOW FOR THE CONSTRUCTION OF 87 SPACES WHERE 153 ARE REQUIRED WAS GRANTED ON MAY 19, 2023.

PLANNING BOARD APPROVAL

APPROVED BY CITY OF CONCORD, NH PLANNING BOARD

ON May 17, 2023
DATE

CONCORD PLANNING BOARD CHAIR

CONCORD PLANNING BOARD CLERK

Aug. 9, 2023
DATE

8/14/23
DATE

REVISIONS #	DATE	DESCRIPTION
1	03/28/2023	AOT SUBMITTAL
2	05/09/2023	RESPONSE TO COMMENTS
3	06/30/2023	CONSTRUCTION DOCUMENTS
4	07/10/2023	RESPONSE TO COMMENTS
5	08/02/2023	ADDENDUM #2

**ST. PAUL'S SCHOOL
ADMISSION CENTER**



St. Paul's School
325 PLEASANT STREET
CONCORD, NH 03301
TAX MAP 723Z / BLOCK 13 / LOT 1

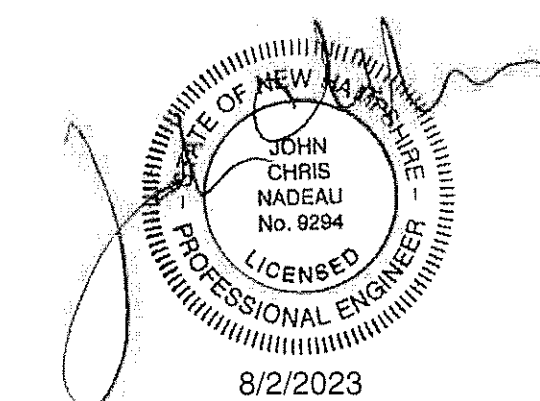
OWNER/APPLICANT:
ST PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

cbt 617 262 4354 cbtarchitects.com
110 canal street boston, ma 02114



nobis

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



RECEIVED

AUG 8 2023

Planning Division
Concord, NH

**CONSTRUCTION
DOCUMENTS**



DATE: MARCH 15, 2023

NOBIS PROJECT NO. 100564.010

DRAWN BY: MGD

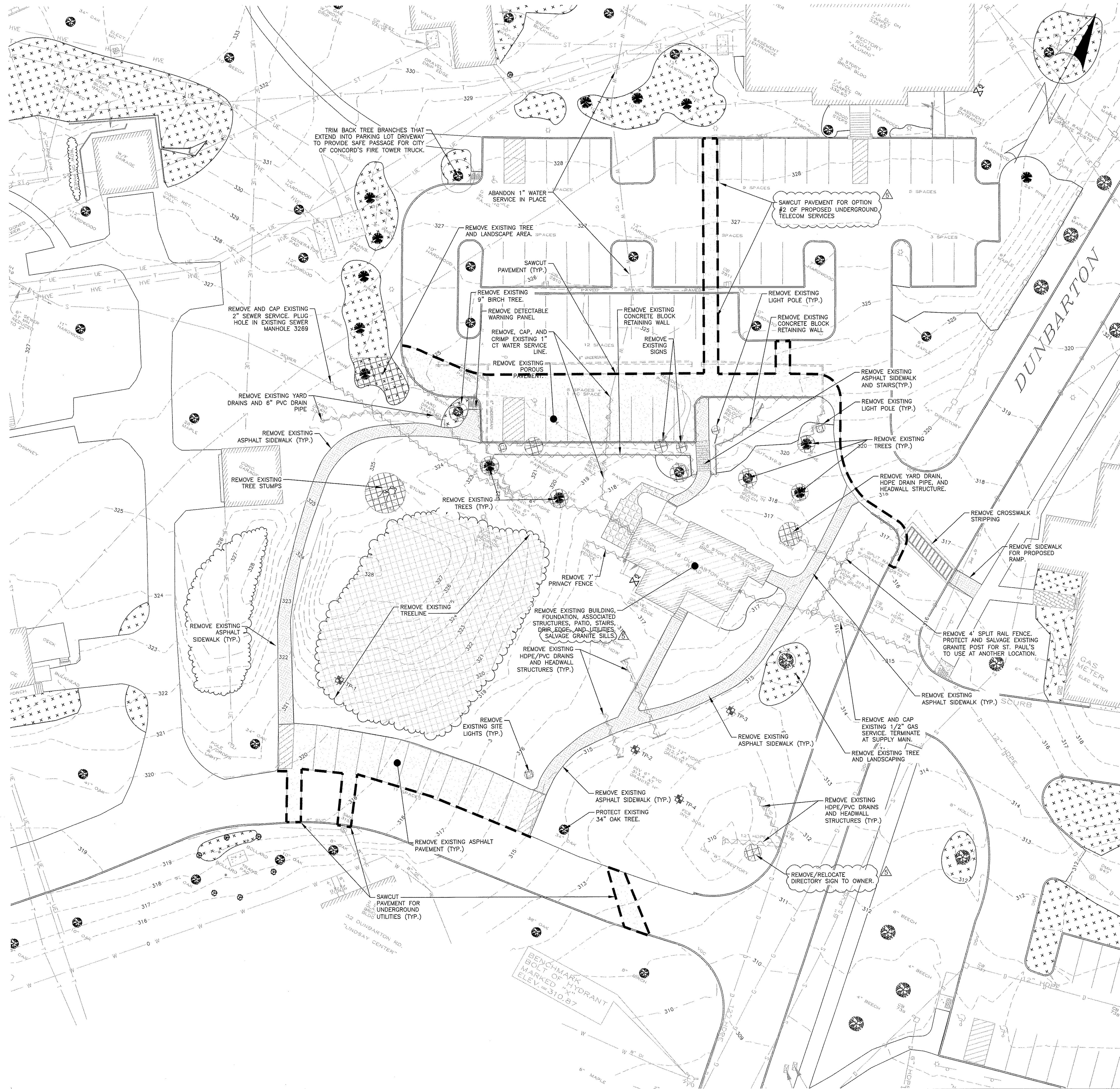
CHECKED BY: JCN

CAD DRAWING FILE:
100564.010-C-200-SITE.dwg

**PROPOSED
SITE PLAN
OVERVIEW**

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

C-1.0



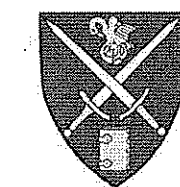
- NOTES:
1. REFER TO SURVEYOR'S PLAN FOR PLAN REFERENCES ADDITIONAL NOTES, EXISTING DRAINAGE AND SANITARY SEWER INVERT INFORMATION.
 2. LOCATION AND ELEVATION OF UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE TOWN FIRE AND POLICE DEPARTMENTS.
 4. DEMOLISH STRUCTURES AND SITE FEATURES AS SHOWN HEREON AND REMOVE PAVEMENT TO LIMITS INDICATED.
 5. CONTRACTOR IS RESPONSIBLE FOR OFF-SITE DISPOSAL OF CONSTRUCTION DEMOLITION DEBRIS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
 6. CONTRACTOR WILL COORDINATE REMOVAL/RELOCATION OF UNDERGROUND GAS AND OVERHEAD UTILITIES WITH RESPECTIVE UTILITY COMPANIES.
 7. ABATEMENT OF HAZARDOUS MATERIALS SUCH AS LEAD PAINT, ASBESTOS, ETC., WILL BE PERFORMED BY A LICENSED CONTRACTOR PRIOR TO COMMENCEMENT OF DEMOLITION. A PRE-DEMOLITION SURVEY WILL BE PERFORMED BY CONTRACTOR PRIOR TO THE START OF DEMOLITION ACTIVITIES TO ENSURE PROPER DEMOLITION AND DISPOSAL PROCEDURES.
 8. DEMOLITION SEQUENCING WILL BE AS DIRECTED BY THE PRIME CONTRACTOR AND THE ARCHITECT.
 9. FOR AREAS OUTSIDE OF THE PROPOSED BUILDING FOOTPRINT, DEMOLISH ALL EXISTING BUILDINGS AND FOUNDATIONS TO 24" BELOW FINISHED GRADE. CONSULT WITH ENGINEER FOR DEMOLITION REQUIREMENTS FOR AREAS WITHIN THE PROPOSED BUILDING FOOTPRINT.
 10. ALL WORK PERFORMED TO CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE MUNICIPAL CONSTRUCTION STANDARDS.
 11. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND FOR CONSTRUCTION SEQUENCING NOTES.
 12. CONTRACTOR WILL NOTIFY OWNER, ENGINEER, AND ARCHITECT IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 13. CONTRACTOR WILL PROTECT ALL EXISTING UTILITIES WITHIN THE LIMIT OF WORK. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES AND ALL COSTS ASSOCIATED WITH REPLACEMENT OR REPAIR WILL BE BORNE BY THE CONTRACTOR.
 14. CONTRACTOR WILL PROTECT ALL SITE FEATURES OUTSIDE LIMIT OF WORK SHOWN HEREON. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING SITE FEATURES AND ALL COSTS ASSOCIATED WITH REPLACEMENT OR REPAIR WILL BE BORNE BY THE CONTRACTOR.
 15. DEMOLITION/REMOVAL OF EXISTING STORMWATER STRUCTURES AND PIPING WILL BE CONDUCTED IN DRY CONDITIONS TO THE EXTENT PRACTICAL. INSTALLATION OF NEW STRUCTURES AND PIPE WILL BE CONDUCTED PRIOR TO DEMOLITION TO THE EXTENT PRACTICAL.
 16. PRIOR TO THE START OF CONSTRUCTION AND ISSUANCE OF ANY PERMITS, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH CITY OF CONCORD ENGINEERING SERVICES TO DISCUSS SITE INSPECTIONS, ASSOCIATED FEES, SCHEDULE, ETC.
 17. THE OWNER SHALL COORDINATE WITH THE CITY AND UTILITY COMPANIES TO DETERMINE WHETHER WATER AND/OR GAS NEEDS TO BE DISCONTINUED AT THE MAIN OR AT THE PROJECT LIMITS.
 18. SALVAGE AND STOCKPILE ALL BOULDERS DISCOVERED ON SITE THAT MEET THE CRITERIA FOR LANDSCAPE BOULDERS AS SPECIFIED IN SECTION 041010. THE LANDSCAPE ARCHITECT WILL INSPECT THE BOULDERS TO DETERMINE IF THEY ARE SUITABLE FOR USE ON SITE.

PLAN REFERENCES:

1. EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "EXISTING CONDITIONS PLAT OF A PORTION OF LAND OF ST. PAUL'S SCHOOL," DATED JANUARY 3, 2023, PROVIDED TO NOBIS GROUP BY RICHARD D. BARTLETT & ASSOCIATES, LLC.

REVISIONS		
#	DATE	DESCRIPTION
1	03/28/2023	AOT SUBMITTAL
2	05/09/2023	RESPONSE TO COMMENTS
3	06/30/2023	CONSTRUCTION DOCUMENTS
4	07/10/2023	RESPONSE TO COMMENTS
5	08/02/2023	ADDENDUM #2

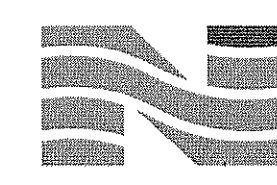
ST. PAUL'S SCHOOL ADMISSION CENTER



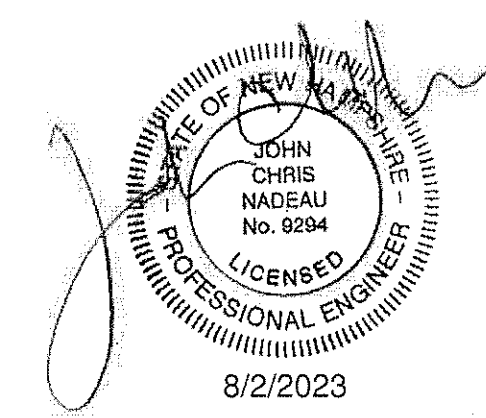
St. Paul's School
325 PLEASANT STREET
CONCORD, NH 03301
TAX MAP 723Z / BLOCK 13 / LOT 1

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

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CONSTRUCTION DOCUMENTS

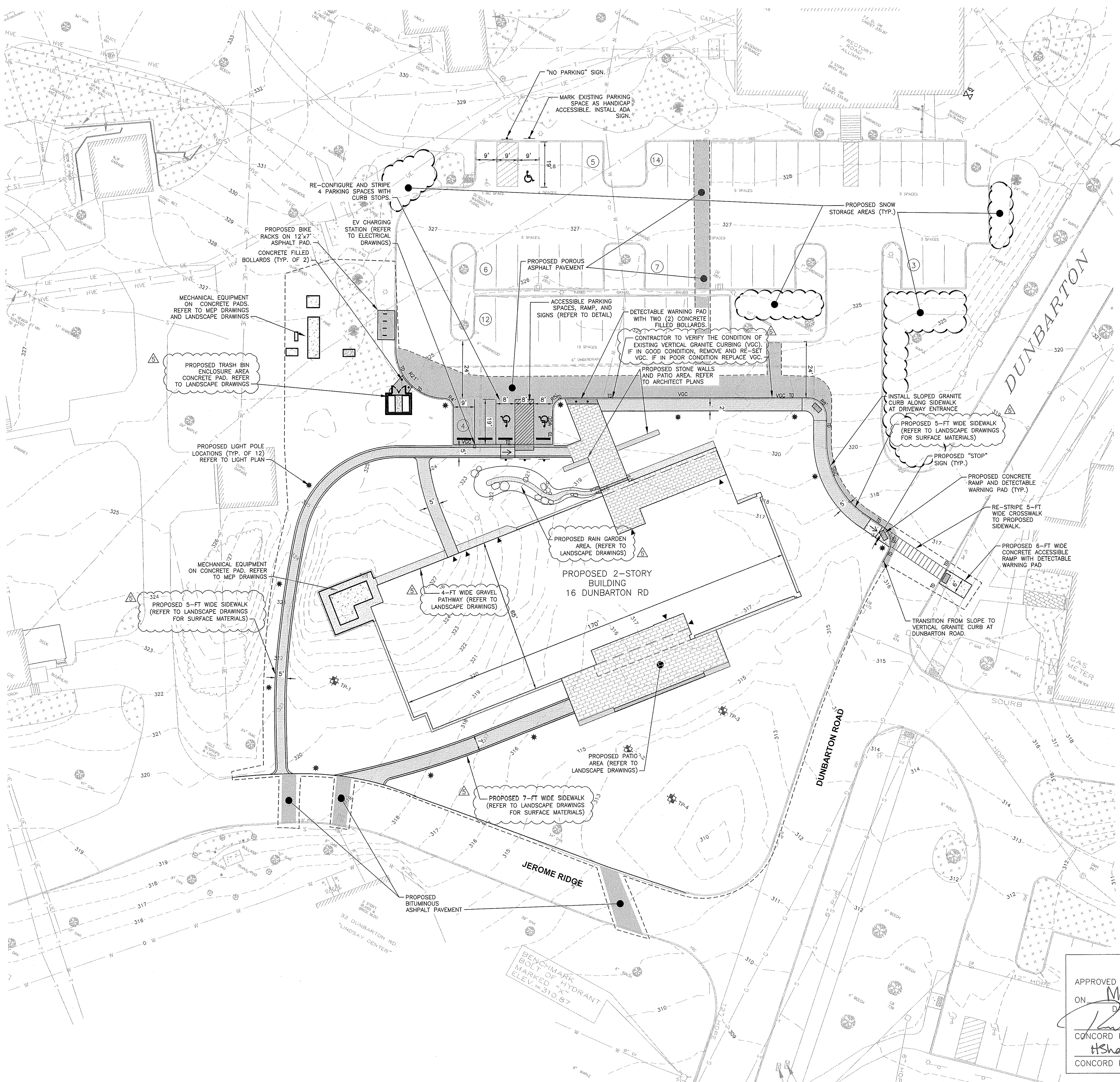


DATE:	MARCH 15, 2023
NOBIS PROJECT NO.	100564.010
DRAWN BY:	MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100564.010-C-100-DEMO.dwg

DEMOLITION PLAN

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 08/30/2023

C-2.0



- NOTES:**
1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE PROPOSED LAYOUT FOR A NEW 2-STORY WELCOME CENTER BUILDING AT THE ST. PAUL'S SCHOOL CAMPUS.
 2. ALL BUILDING AND SITE CONSTRUCTION TO COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITY ACT (ADA) 2010 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 MUNICIPAL WATER AND SEWER.
 5. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIO SAFE (1-888-DIO-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. HORIZONTAL DATUM IS BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM NAD 83 BASED ON GPS OBSERVATIONS AND OPUS SOLUTIONS.
 8. VERTICAL DATUM IS BASED ON NAVD 88.
 9. REFER TO CONSTRUCTION DETAIL SHEETS FOR ALL APPLICABLE SITE DETAILS.
 10. CONTRACTOR WILL NOTIFY ENGINEERS IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 11. TEST PITS PERFORMED BY NOBIS GROUP, ON DECEMBER 6, 2022. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.
 12. CONTRACTOR WILL NOTIFY ENGINEERS IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON THE PLAN.
- PLAN REFERENCES:**
1. EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "EXISTING CONDITIONS PLAN OF A PORTION OF LAND OF ST. PAUL'S SCHOOL", DATED JANUARY 3, 2023, PROVIDED TO NOBIS GROUP BY RICHARD D. BARTLETT & ASSOCIATES, LLC.
 2. BUILDING FOOTPRINT REPRESENTS 1ST FLOOR AND WAS PROVIDED TO NOBIS GROUP BY CBT ARCHITECTS ON JANUARY 23, 2023, REFER TO ARCHITECTURAL/STRUCTURAL PLANS FOR FOUNDATION AND BUILDING DIMENSIONS.

PLANNING BOARD APPROVAL

APPROVED BY CITY OF CONCORD, NH PLANNING BOARD


ON May 17, 2023 DATE Aug. 9, 2023

HShank CONCORD PLANNING BOARD CHAIR DATE 8/14/23

CONCORD PLANNING BOARD CLERK DATE

REVISIONS		
#	DATE	DESCRIPTION
1	03/28/2023	AOT SUBMITTAL
2	05/09/2023	RESPONSE TO COMMENTS
3	06/30/2023	CONSTRUCTION DOCUMENTS
4	07/10/2023	RESPONSE TO COMMENTS
5	08/02/2023	ADDENDUM #2

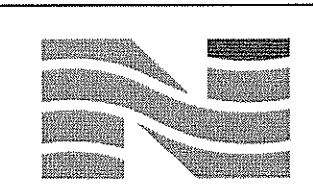
ST. PAUL'S SCHOOL
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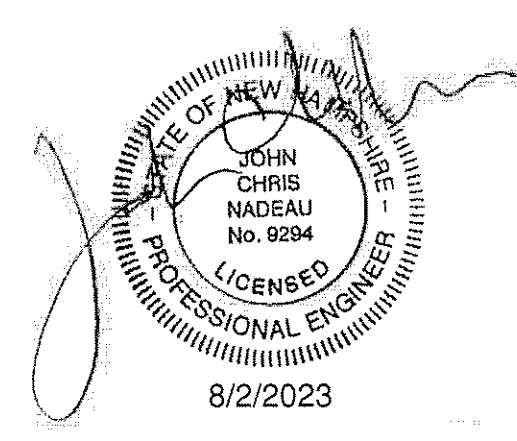
St. Paul's School
325 PLEASANT STREET
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TAX MAP 723Z / BLOCK 13 / LOT 1

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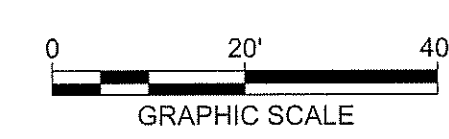


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Planning Division
Concord, NH

CONSTRUCTION
DOCUMENTS



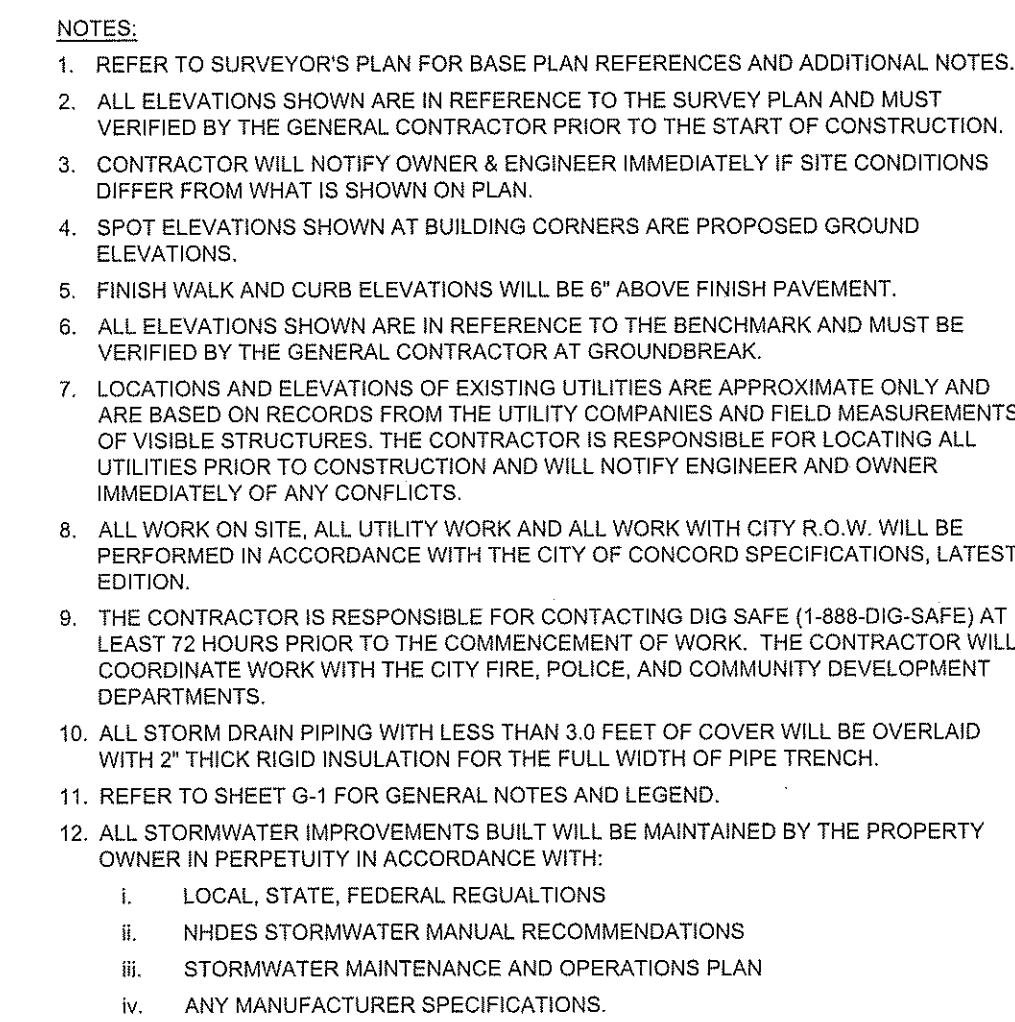
DATE:	MARCH 15, 2023
NOBIS PROJECT NO.	100564.010
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CHECKED BY:	JCN
CAD DRAWING FILE:	100564.010-C-200-SITE.dwg

PROPOSED SITE
PLAN

SCALE	PROJECT #	DATE ISSUED
AS NOTED	229008.00	06/30/2023

C-3.0

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FI1 (NYLOPLAST)
RIM = 324.75
INV. OUT = 320.4
L = 42 LF - 6" PVC (TO FI2)
S = 0.0073 FT/FT

FI2 (NYLOPLAST)
RIM = 324.5
INV. IN = 320.1 (FROM FI1)
INV. OUT = 320.0
L= 28 LF - 6" PVC (TO CB1)
S = 0.0627 FT/FT

FI3 (NYLOPLAST)
RIM = 323.0
INV. OUT = 319.5
L = 40 LF - 6" PVC (TO CB1)
S = 0.03 FT/FT

CB1 (6" O.D. STRUCTURE)
RIM = 322.5
INV. IN = 318.3 (FROM FI2)
INV. IN = 318.3 (FROM FI3)
INV. IN = 318.3 (FROM 6" U)
INV. OUT = 317.9
L = 85 LF - 12" HDPE (TO D

DMH1 (5' O.D. STRUCTURE
RIM = 324.0
INV. IN = 317.4 (FROM CB1)
INV. OUT = 317.3
L = 46 LF - 12" HDPE (TO C
S - 0.0065 FT/FT

CB2 (6" O.D. STRUCTURE)
RIM = 321.5
INV. IN = 317.0 (FROM DMH)
INV. IN = 317.5 (FROM 6" U)
INV. IN = 317.5 (FROM 6" R)
INV. OUT = 316.9
L = 46 LF - 12" HDPE (TO C

CB3 (5" O.D. STRUCTURE)
RIM = 319.0
INV. IN = 314.9 (FROM CB2)
INV. OUT = 314.8
L = 31 LF - 12" HDPE (TO D
C = 0.0001 FEET

DMH2 (5" O.D. STRUCTURE)
RIM = 319.0
INV. IN = 314.1 (FROM CB3)
INV. OUT = 314.0
L = 32 LF - 12" HDPE (TO D
S = 0.0054 ET/ET

DMH3 (5" O.D. STRUCTURE)
RIM = 322.5
INV. IN = 313.82 (FROM DMH3)
INV. OUT = 313.40 (24" ISO
INVERT) (313.45 (100' M

DMH4 (5' O.D. STRUCTURE)
RIM = 323.0
INV. IN = 318.0 (FROM TRE
INV. OUT = 313.40 (24" ISO

DMH5 (5' O.D. STRUCTURE)
RIM = 319.0
INV. IN = 313.36 (12" MANIF)
INV. OUT = 313.25
WEIR ELEV. @ 316.5

S = 0.102 FT/FT

EX CB 476 (INSTALL NEW
RIM = 311.58
INV. IN = 308.5 (6" FROM U

INV. IN = 307.0 (12" FROM
INV. OUT = 306.08

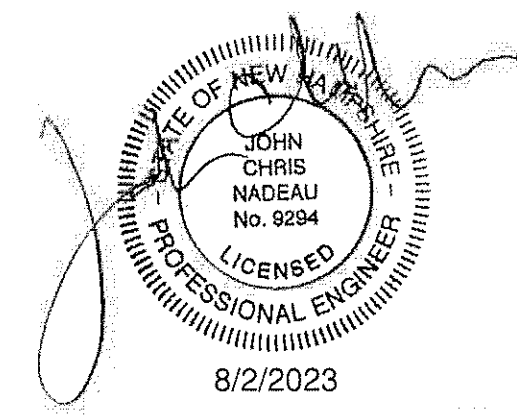
REVISONS		
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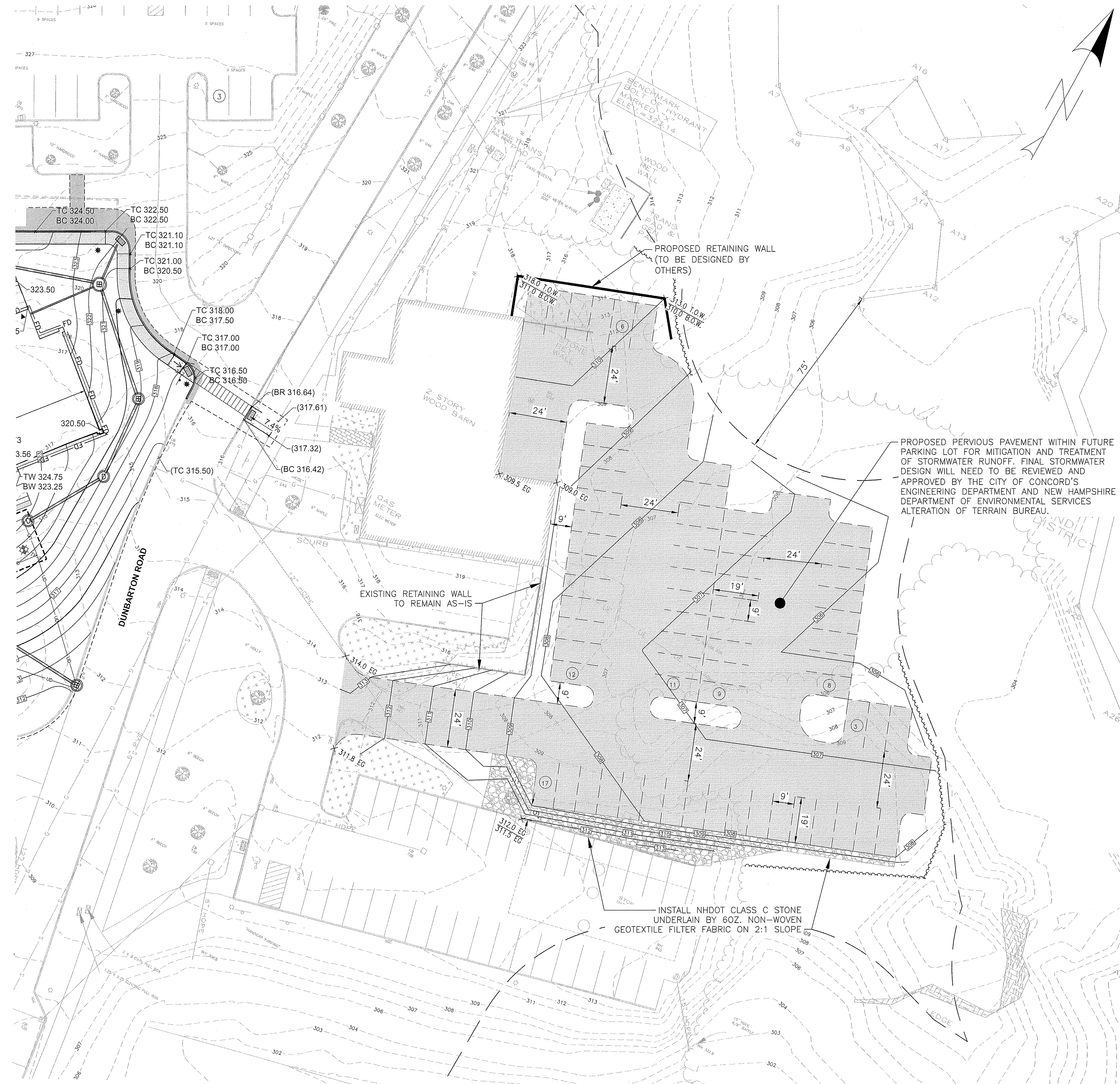


A horizontal graphic scale bar with alternating black and white segments. It is marked with '0' at the left end, '20'' at the first major tick, and '40'' at the right end. Below the bar, the text 'GRAPHIC SCALE' is centered.

DATE:	MARCH 15, 2023
NOBIS PROJECT NO.	100564.010
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CHECKED BY:	JCN
CAD DRAWING FILE:	
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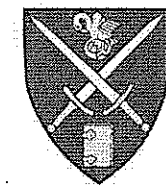
C-4.0



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

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ST. PAUL'S SCHOOL ADMISSION CENTER



St. Paul's School
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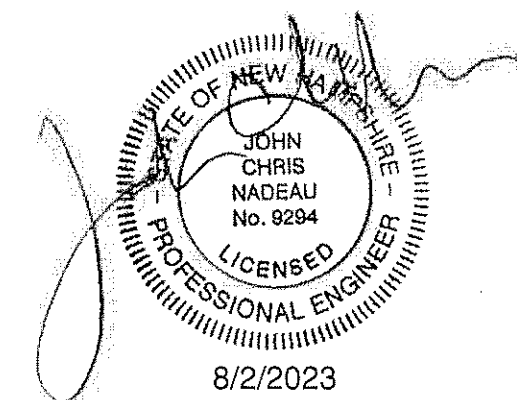
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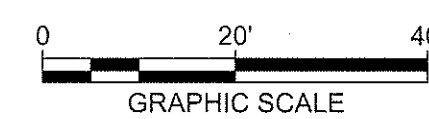


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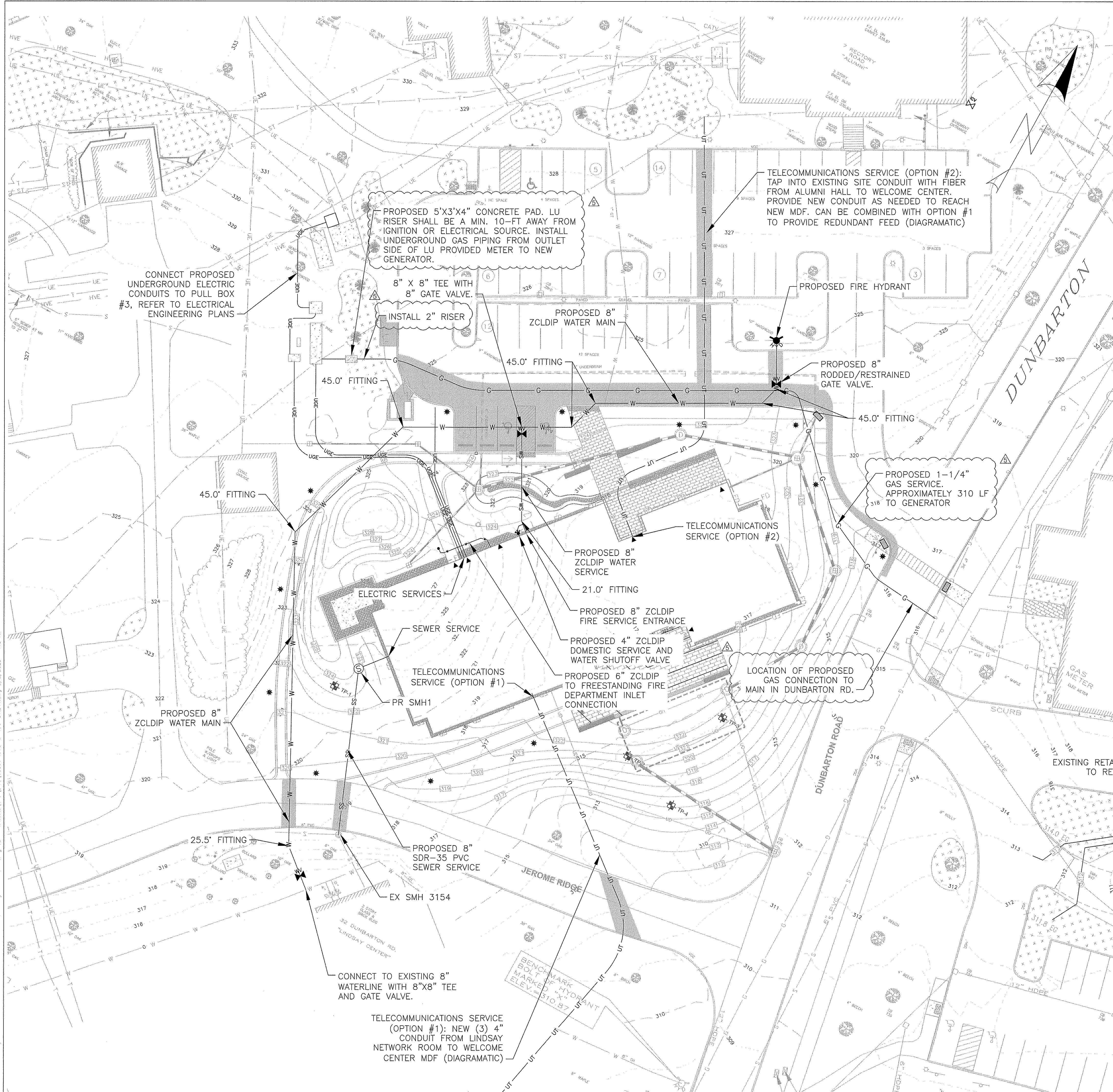
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CONCEPTUAL GRADING AND DRAINAGE (FUTURE PARKING)

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C-4.1

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NOTES:

1. REFER TO SURVEYOR'S PLAN, FOR BASE PLAN REFERENCES AND ADDITIONAL NOTES.
2. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE SURVEY PLAN AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
3. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN 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 HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. CALL 1-888-DIGSAFE AT LEAST THREE BUSINESS DAYS BEFORE PERFORMING ANY CONSTRUCTION.
4. LOCATIONS AND ELEVATIONS OF UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS FROM THE UTILITY COMPANIES AND FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
5. THERE WILL BE NO PHYSICAL CONNECTION BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND A SEWER OR SEWER APPURTENANCE WHICH WOULD PERMIT THE PASSAGE OF SEWAGE OR POLLUTED WATER INTO THE POTABLE SUPPLY. NO WATER PIPE WILL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER OR SEWER MANHOLE. NO SEWER WILL BE LOCATED WITHIN THE WELLS OF A PROTECTIVE RADI ESTABLISHED IN ENV-WQS 300 FOR ANY PUBLIC WATER SUPPLY WELLS OR WITHIN 100 FEET OF ANY PRIVATE WATER SUPPLY WELL. SEWERS WILL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. A DEVIATION FROM THE SEPARATION REQUIREMENTS WILL BE ALLOWED WHERE NECESSARY TO AVOID CONFLICT WITH SUBSURFACE STRUCTURES, UTILITY CHAMBERS, AND BUILDING FOUNDATIONS, PROVIDED THAT THE SEWER IS CONSTRUCTED IN ACCORDANCE WITH THE FORCE MAIN CONSTRUCTION REQUIREMENTS SPECIFIED IN ENV-WQ 704.06.
- WHENEVER SEWERS MUST CROSS WATER MAINS, THE SEWER WILL BE CONSTRUCTED AS FOLLOWS:
 - 5.1. VERTICAL SEPARATION OF THE SEWER AND WATER MAIN WILL BE NOT LESS THAN 18 INCHES, WITH WATER ABOVE SEWER; AND
 - 5.2. SEWER PIPE JOINTS WILL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM THE WATER MAIN.
6. THE CONTRACTOR WILL PROVIDE A MINIMUM NOTICE OF FOURTEEN (14) DAYS TO ALL CORPORATIONS, COMPANIES AND/OR LOCAL AUTHORITIES OWNING OR HAVING A JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS PROJECT AREAS PRIOR TO DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
7. THE LOCATION, SIZE, DEPTH AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES WILL BE TO THE STANDARDS AND REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY (ELECTRIC, TELEPHONE, CABLE TELEVISION, FIRE ALARM, GAS, WATER, AND SEWER).
8. ALL CONSTRUCTION WILL CONFORM TO THE CITY OF CONCORD CONSTRUCTION STANDARDS AND REGULATIONS, UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION ACTIVITIES WILL CONFORM TO LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS.
9. THE CONTRACTOR IS TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY STUBS PRIOR TO CONSTRUCTION AND DISCONNECT ALL EXISTING SERVICE CONNECTIONS AT THEIR RESPECTIVE MAINS IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS. ENGINEER TO BE NOTIFIED.
10. AS-BUILT PLANS WILL BE SUBMITTED TO DEPARTMENT OF PUBLIC WORKS.
11. INVERTS AND SHELVES: MANHOLES WILL HAVE A BRICK PAVED SHELF AND INVERT. CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW AT CHANGES IN DIRECTION. THE INVERTS WILL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES WILL BE CONSTRUCTED TO MATCH THE HIGHEST PIPE CROWN, AND SHELF WILL CONSIST OF GRADE SS HARD BRICK MASONRY.
12. FRAMES AND COVERS: MANHOLE FRAMES AND COVERS WILL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30 INCH DIA. CLEAR OPENING. THE WORD "SEWER" WILL BE CAST INTO THE CENTER OF THE UPPER FACE OF EACH COVER WITH RAISED, 3" LETTERS.
13. SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 8 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC RAMP ENTRANCE OPENING AND CAPABLE OF SUPPORTING 420 LBS.
14. CONTRACTOR WILL PLACE 2" WIDE METAL WIRE IMPREGATED GREEN PLASTIC WARNING TAPE OVER ENTIRE LENGTH OF ALL GRAVITY SEWERS, SERVICES, AND FORCE MAINS.
15. ALL SANITARY STRUCTURE INTERIOR DIAMETERS (4" MIN) WILL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS.
16. PROPOSED RIM ELEVATIONS OF SANITARY MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, GAS GATES AND OTHER UTILITIES TO FINISH GRADE.
17. ALL SANITARY SEWER SERVICE LATERALS, FOR FUTURE RESIDENTIAL CONNECTION, WILL END AT THE LIMITS OF THE R.O.W., AS SHOWN ON PLANS AND WILL BE PROVIDED WITH A TEMPORARY PLUG AND WITNESS AT END.
18. DIMENSIONS ARE SHOWN TO CENTERLINE OF PIPE OR FITTING.
19. ALL GRAVITY SEWER PIPE, MANHOLES, AND FORCE MAINS WILL BE TESTED ACCORDING TO NHDES STANDARDS OF DESIGN AND CONSTRUCTION FOR SEWAGE AND WASTEWATER TREATMENT FACILITIES, CHAPTER ENV-WQ 700, CONFORMING TO THE FOLLOWING MIN. CRITERIA:
 - ENV-WQ 704.06 GRAVITY SEWER PIPE TESTING:
GRAVITY SEWERS WILL BE TESTED FOR WATER TIGHTNESS BY USE OF LOW-PRESSURE AIR TESTS CONFORMING WITH ASTM F1417-92(2005) OR UNI-BELL PVC PIPE ASSOCIATION UNI-B-6. LINES WILL BE CLEANED AND VISUALLY INSPECTED USING A LAMP TEST AND BY INTRODUCING WATER TO DETERMINE THAT THERE IS NO STANDING WATER IN THE SEWER, AND TRUE TO LINE AND GRADE FOLLOWING INSTALLATION AND PRIOR TO USE. DEFLECTION TESTS WILL TAKE PLACE NOT LESS THAN 30 DAYS NOR MORE THAN 90 DAYS FOLLOWING INSTALLATION. THE MAXIMUM ALLOWABLE DEFLECTION OF FLEXIBLE SEWER PIPE SHALL BE 5% PERCENT OF AVERAGE INSIDE DIAMETER. A RIGID BALL OR MANDREL WITH A DIAMETER OF AT LEAST 95% OF THE AVERAGE INSIDE PIPE DIAMETER SHALL BE USED FOR TESTING PIPE DEFLECTION. THE DEFLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES.
 - ENV-WQ 704.17 SEWER MANHOLES:
WILL BE TESTED FOR LEAKAGE USING A VACUUM TEST. TESTING WILL BE CONDUCTED PRIOR TO PLACEMENT OF SHELVES AND INVERTS.
20. SEWERS WILL BE BURIED TO A MINIMUM DEPTH OF 6 FEET BELOW GRADE IN ALL ROADWAY LOCATIONS, AND TO A MINIMUM DEPTH OF 4 FEET BELOW GRADE IN ALL CROSS-COUNTRY LOCATIONS. A NHDES WAIVER IS NEEDED IF THE MINIMUM REQUIRED DEPTH CANNOT BE MET.
21. SEWER AND WATER INFRASTRUCTURE ON PRIVATE PROPERTY IS TO REMAIN PRIVATE. HOWEVER, THE TOWN RESERVES THE RIGHT TO ENTER THE PROPERTY IN ORDER TO INSPECT, REPAIR AND/OR TERMINATE INDIVIDUAL SEWER OR WATER SERVICES (AT OWNER'S EXPENSE).
22. CONTRACTOR WILL SET RIMS OF NEW SANITARY SEWER MANHOLES TO EXISTING FINISHED GRADE FOR THE WINTER SEASON. RIMS WILL BE RAISED IN THE SPRING PRIOR TO PLACEMENT OF 1" BITUMINOUS OVERLAY.
23. SERVICE LATERAL LOCATIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD BASED ON INPUT FROM TOWN INSPECTOR AND/OR PROJECT CLERK OF THE WORKS.
24. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.
25. THE CONTRACTOR AND/OR OWNER SHALL CONFIRM THAT THE FIRE ALARM SYSTEM IS NOT INTERRUPTED AND IS RECONSTRUCTED IN ACCORDANCE WITH THE CITY STANDARDS.

REVISIONS

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Δ	07/10/2023	RESPONSE TO COMMENTS
Δ	08/02/2023	ADDENDUM #2

ST. PAUL'S SCHOOL ADMISSION CENTER



St. Paul's School
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TAX MAP 723Z / BLOCK 13 / LOT 1

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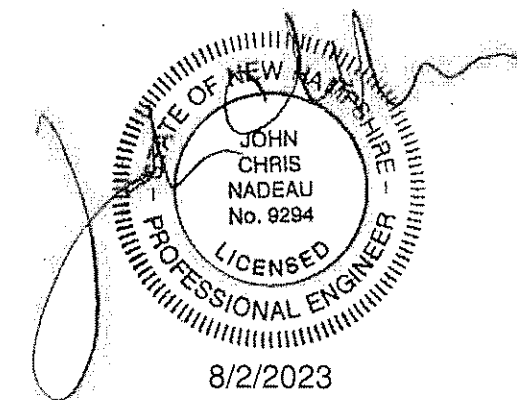
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0 20' 40'
GRAPHIC SCALE

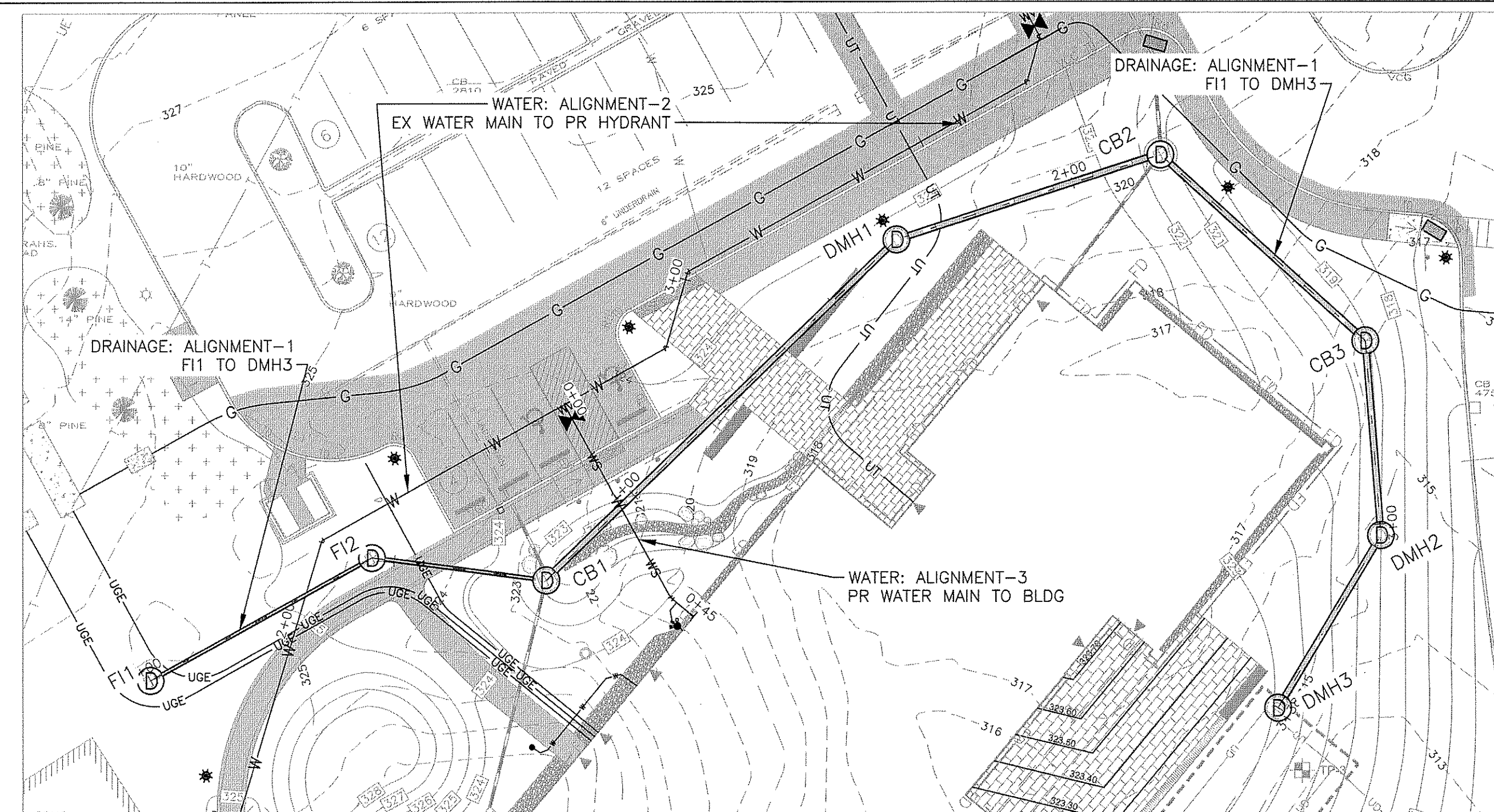
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UTILITY PLAN

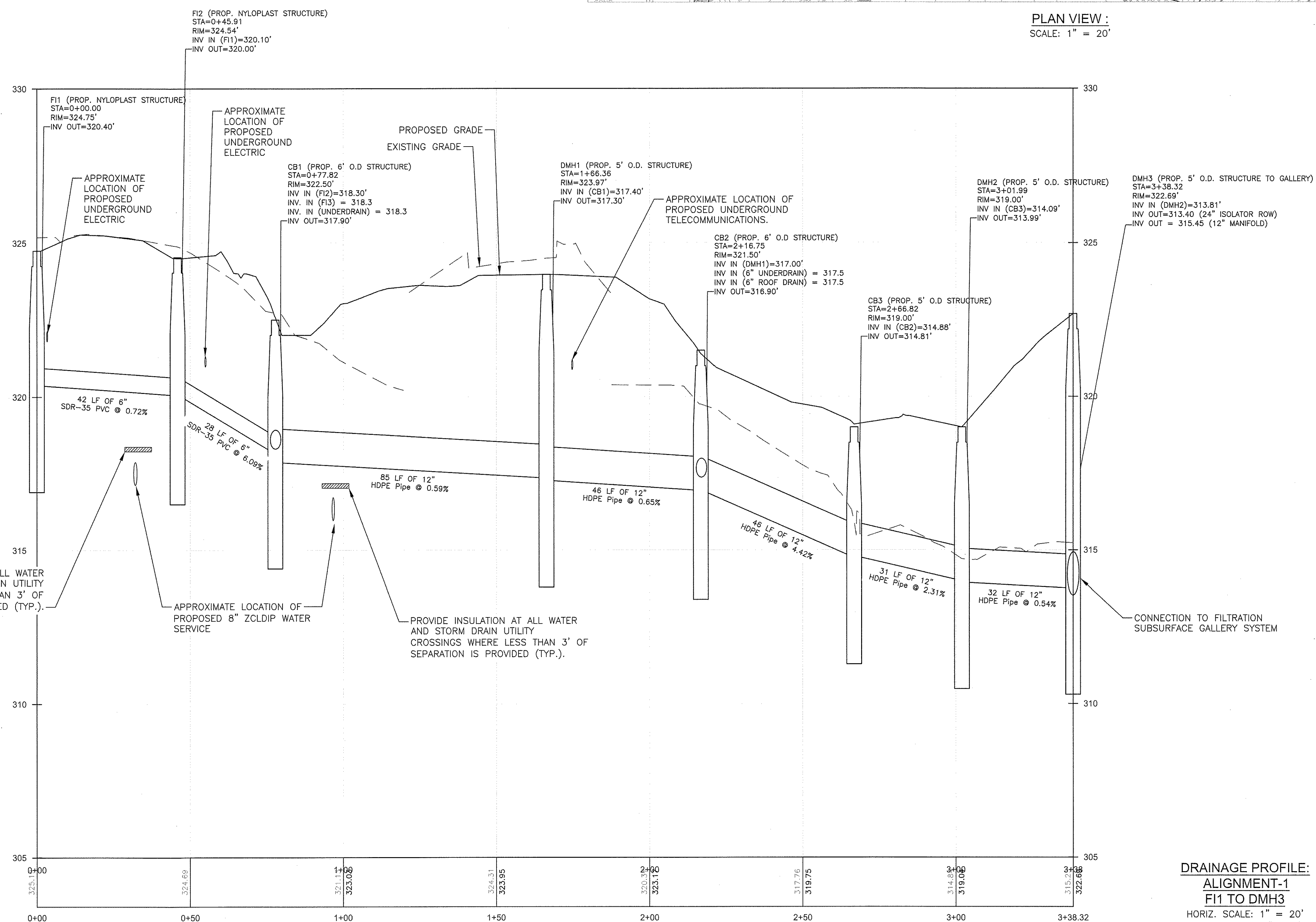
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4376-10



PLAN VIEW :
SCALE: 1" = 20'



Pipe Table				
Pipe Name	Size (in)	Length (ft)	Slope ft/ft	Min. Cover (ft)
FI1 to FI2	6.000	42	0.72%	3.8
FI2 to CB1	6.000	28	6.09%	3.6
CB1 to DMH1	12.000	85	0.59%	3.1
DMH1 to CB2	12.000	46	0.65%	3.7
CB2 to CB3	12.000	46	4.42%	3.1
CB3 to DMH2	12.000	31	2.31%	3.3
DMH3 to DMH4	12.000	32	0.54%	4.2

NOTES:

1. REFER TO GRADING AND DRAINAGE PLANS FOR ADDITIONAL INFORMATION
2. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.

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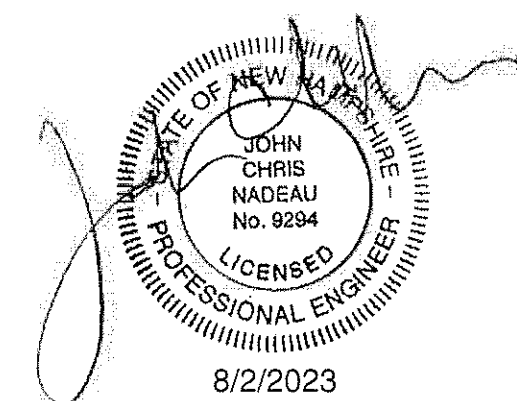
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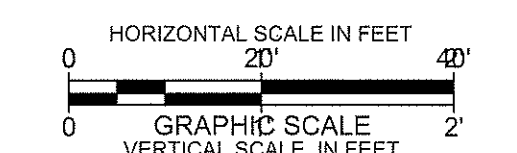


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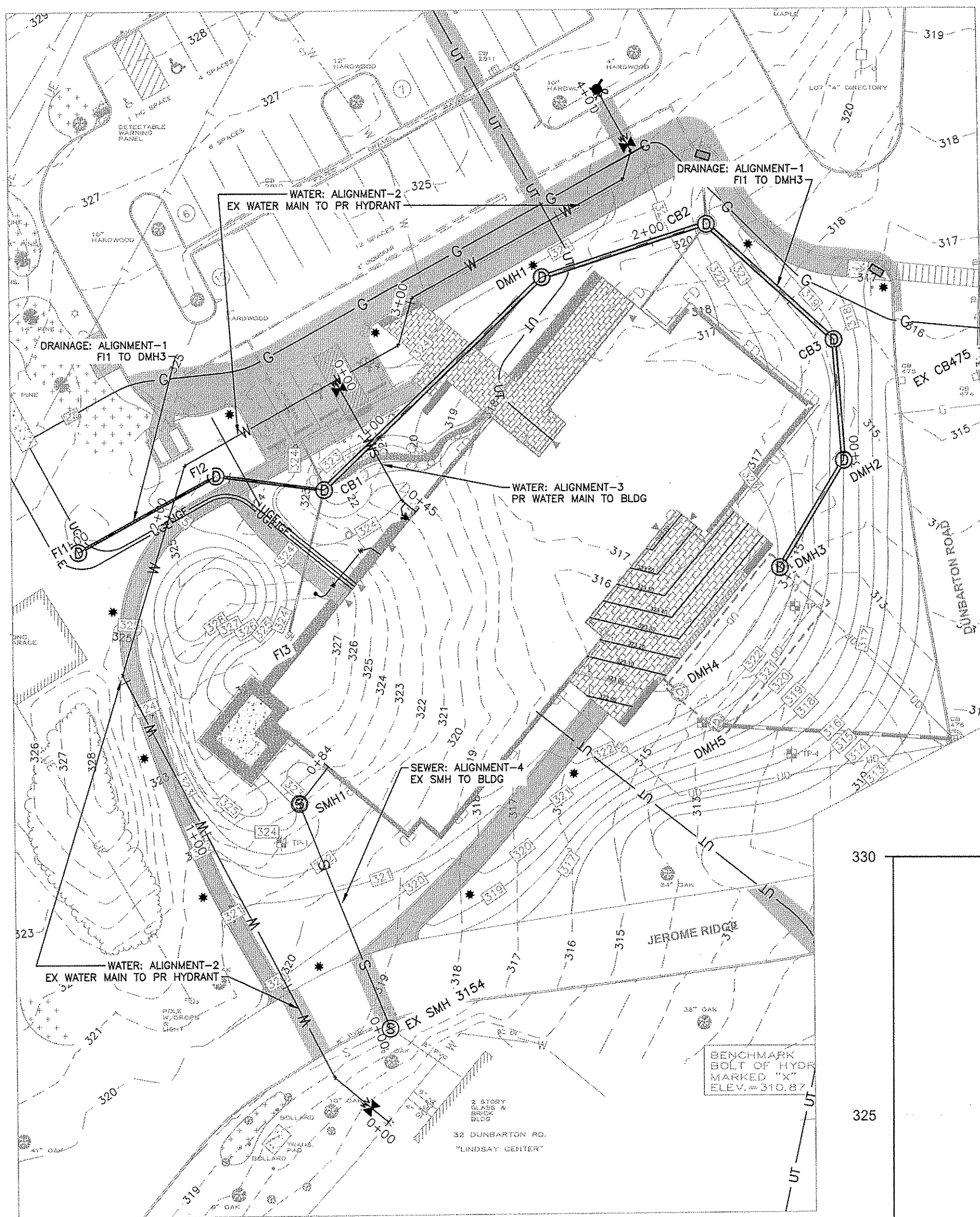
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UTILITY PROFILE PLAN

SCALE	PROJECT #	DATE ISSUED
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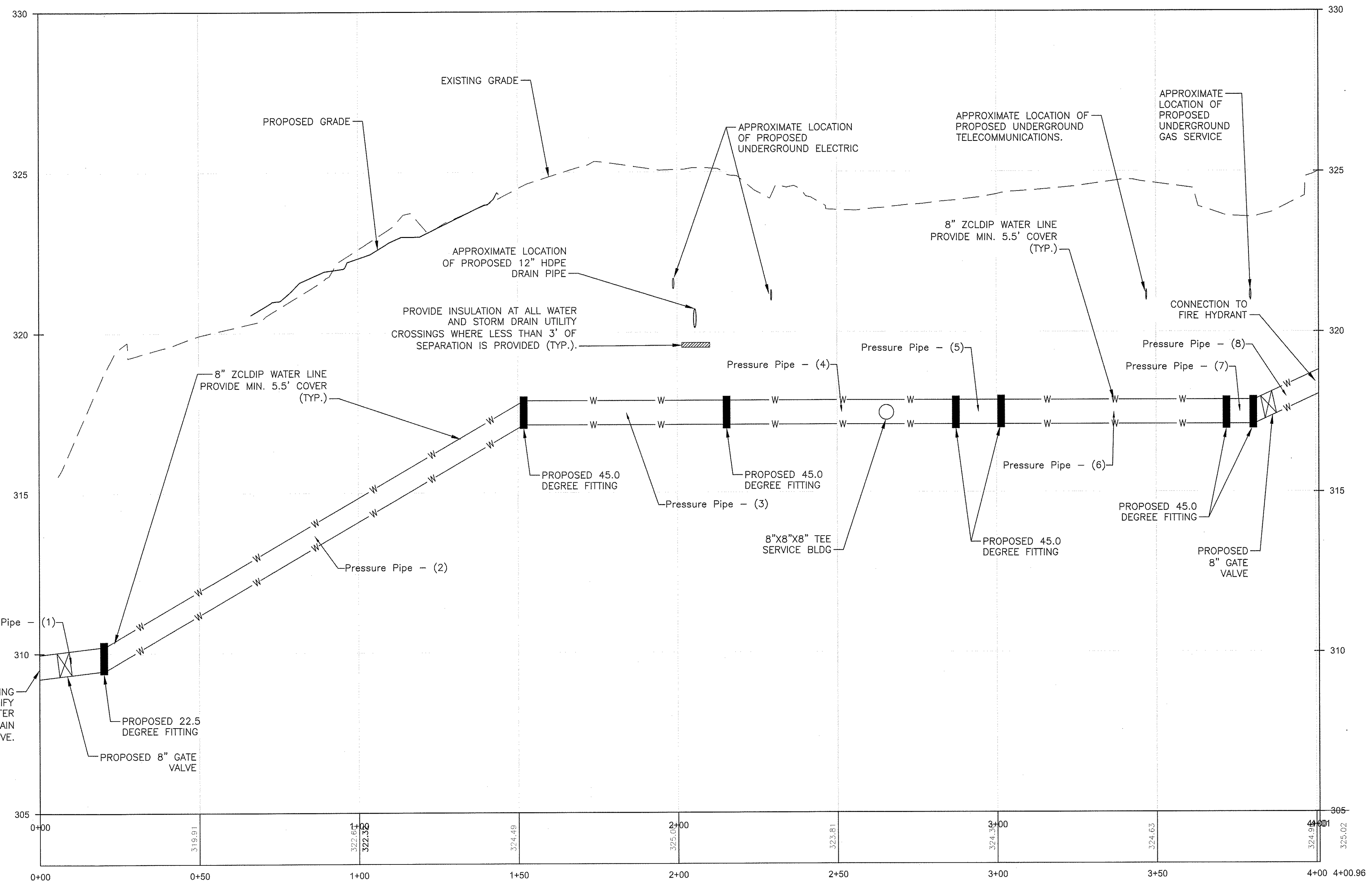
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PLAN VIEW :
SCALE: 1" = 20'

APPROXIMATE LOCATION OF EXISTING WATER MAIN. CONTRACTOR TO VERIFY SIZE, TYPE, AND CONDITION OF WATER MAIN. CONNECT TO 8" D.I. WATER MAIN WITH 8"x8" TAPPING SLEEVE.

WATER PROFILE-1: ALIGNMENT-2
EX MAIN TO PR HYDRANT
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'



- NOTES:
1. REFER TO GRADING AND DRAINAGE PLANS FOR ADDITIONAL INFORMATION.
 2. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.

Pressure Pipe Table				
Pressure Pipe Name	Size (in)	Length (ft)	Slope ft/ft	Min. Cover (ft)
Pressure Pipe - (1)	8 INCH DUCTILE IRON	19.965	-1.25%	5.515
Pressure Pipe - (2)	8 INCH DUCTILE IRON	131.352	-5.84%	6.715
Pressure Pipe - (3)	8 INCH DUCTILE IRON	62.954	0.00%	6.744
Pressure Pipe - (4)	8 INCH DUCTILE IRON	70.888	0.00%	5.916
Pressure Pipe - (5)	8 INCH DUCTILE IRON	13.690	0.00%	6.234
Pressure Pipe - (6)	8 INCH DUCTILE IRON	70.011	0.00%	5.752
Pressure Pipe - (7)	8 INCH DUCTILE IRON	7.873	0.00%	5.699
Pressure Pipe - (8)	8 INCH DUCTILE IRON	20.141	-4.63%	5.594

REVISIONS		
#	DATE	DESCRIPTION
1	03/28/2023	AOT SUBMITTAL
2	05/09/2023	RESPONSE TO COMMENTS
3	06/30/2023	CONSTRUCTION DOCUMENTS
4	07/10/2023	RESPONSE TO COMMENTS
5	08/02/2023	ADDENDUM #2

ST. PAUL'S SCHOOL ADMISSION CENTER



St. Paul's School
325 PLEASANT STREET
CONCORD, NH 03301
TAX MAP 723Z / BLOCK 13 / LOT 1

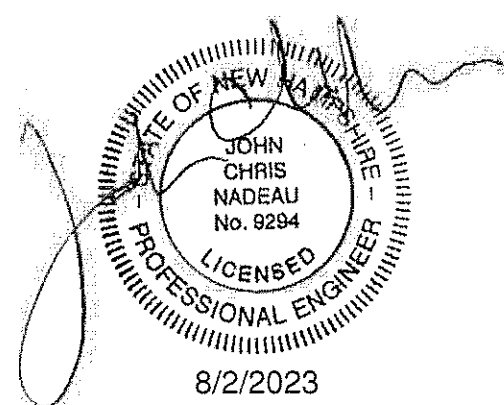
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325 PLEASANT STREET
CONCORD, NEW HAMPSHIRE

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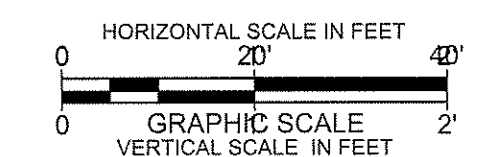


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DATE: MARCH 15, 2023
NOBIS PROJECT NO. 100564.010
DRAWN BY: MGD
CHECKED BY: JCN
CAD DRAWING FILE:
100564.010-C-400-UTILITY-P&P.dwg

UTILITY PROFILE PLAN

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 08/30/2023

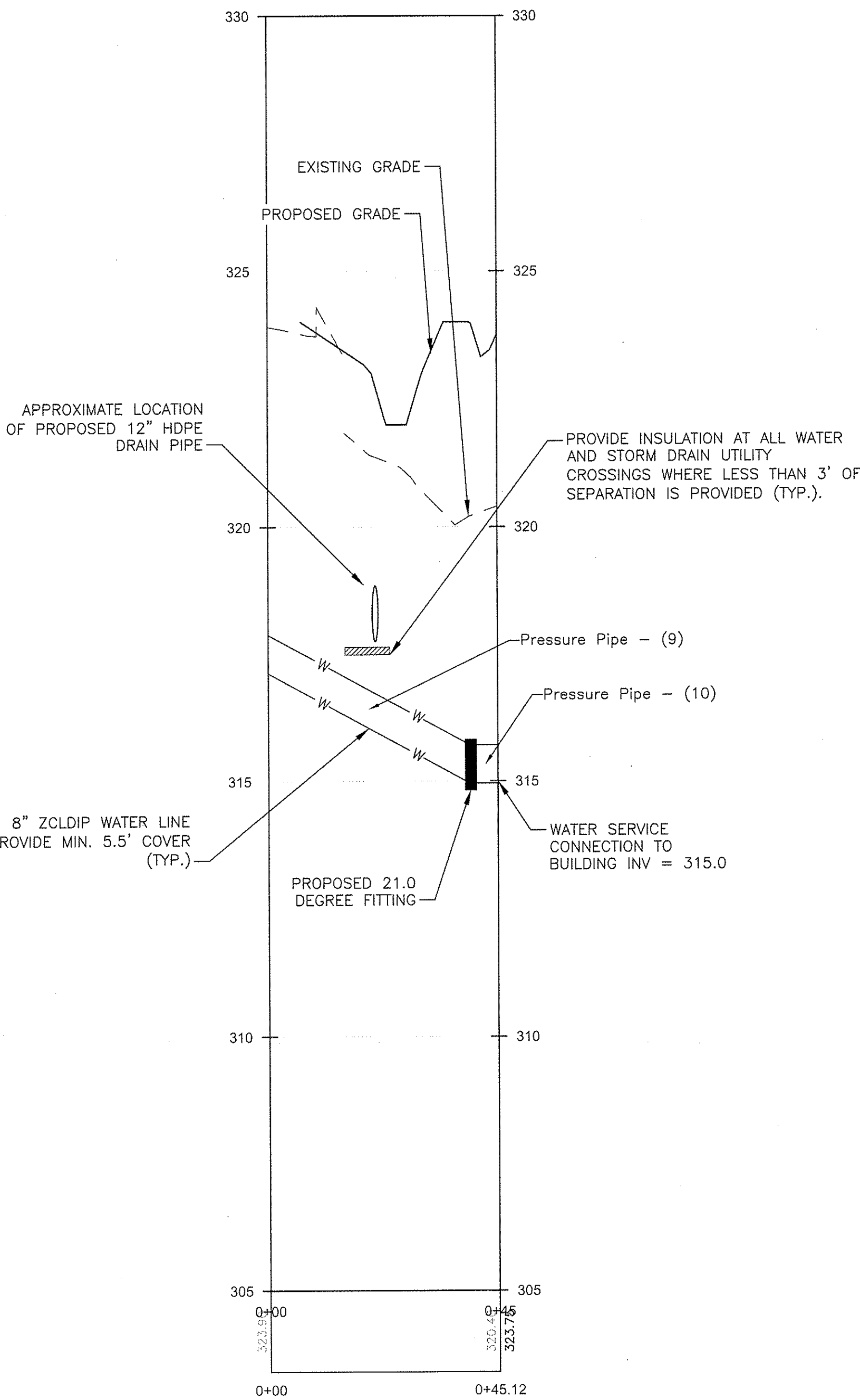
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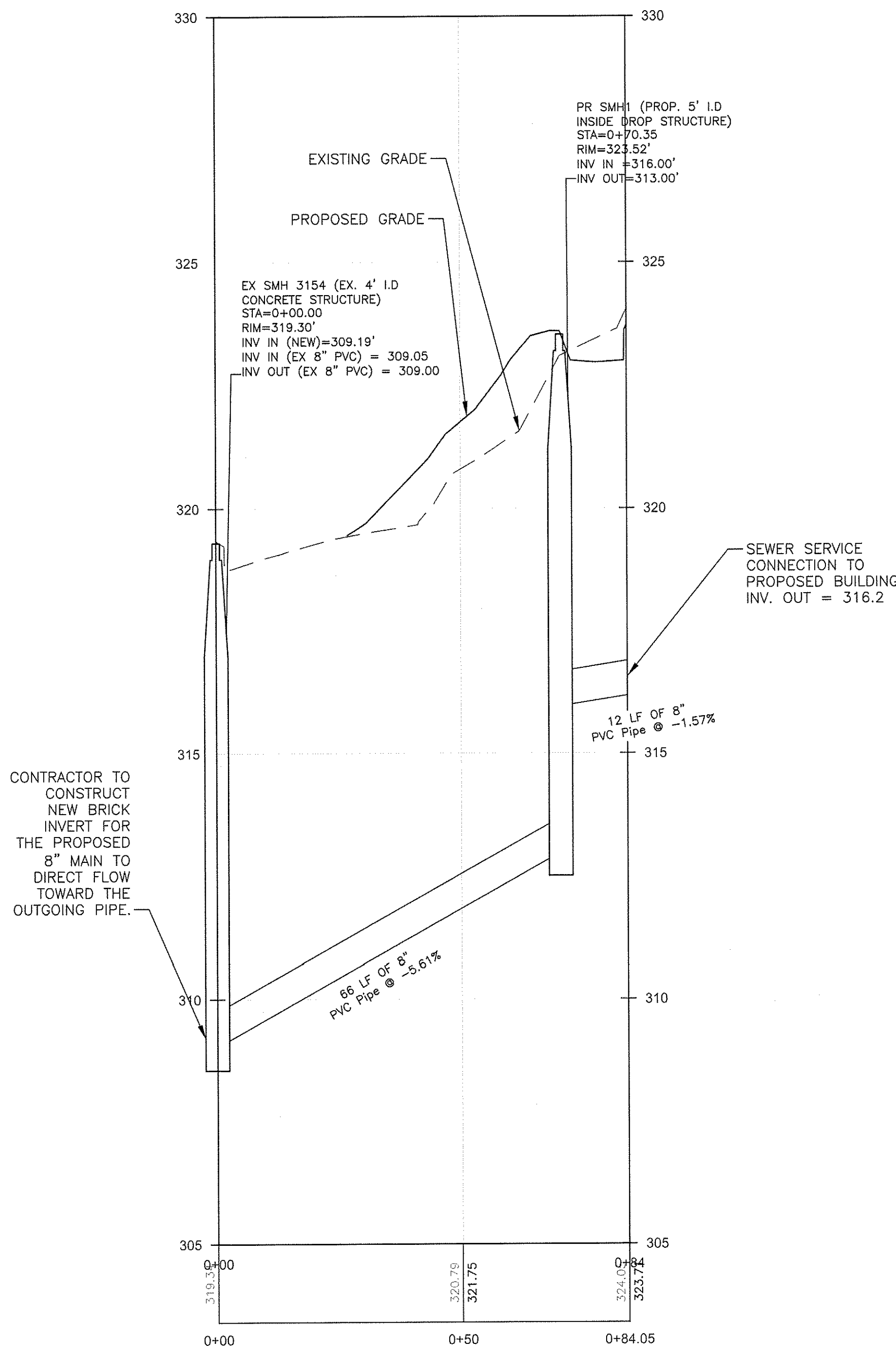
NOTES:
1. REFER TO GRADING AND DRAINAGE PLANS FOR ADDITIONAL INFORMATION.
2. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.

Pressure Pipe Table				
Pressure Pipe Name	Size (in)	Length (ft)	Slope ft/ft	Min. Cover (ft)
Pressure Pipe - (9)	8 INCH DUCTILE IRON	39.591	5.47%	5.515
Pressure Pipe - (10)	8 INCH DUCTILE IRON	4.896	0.00%	7.625

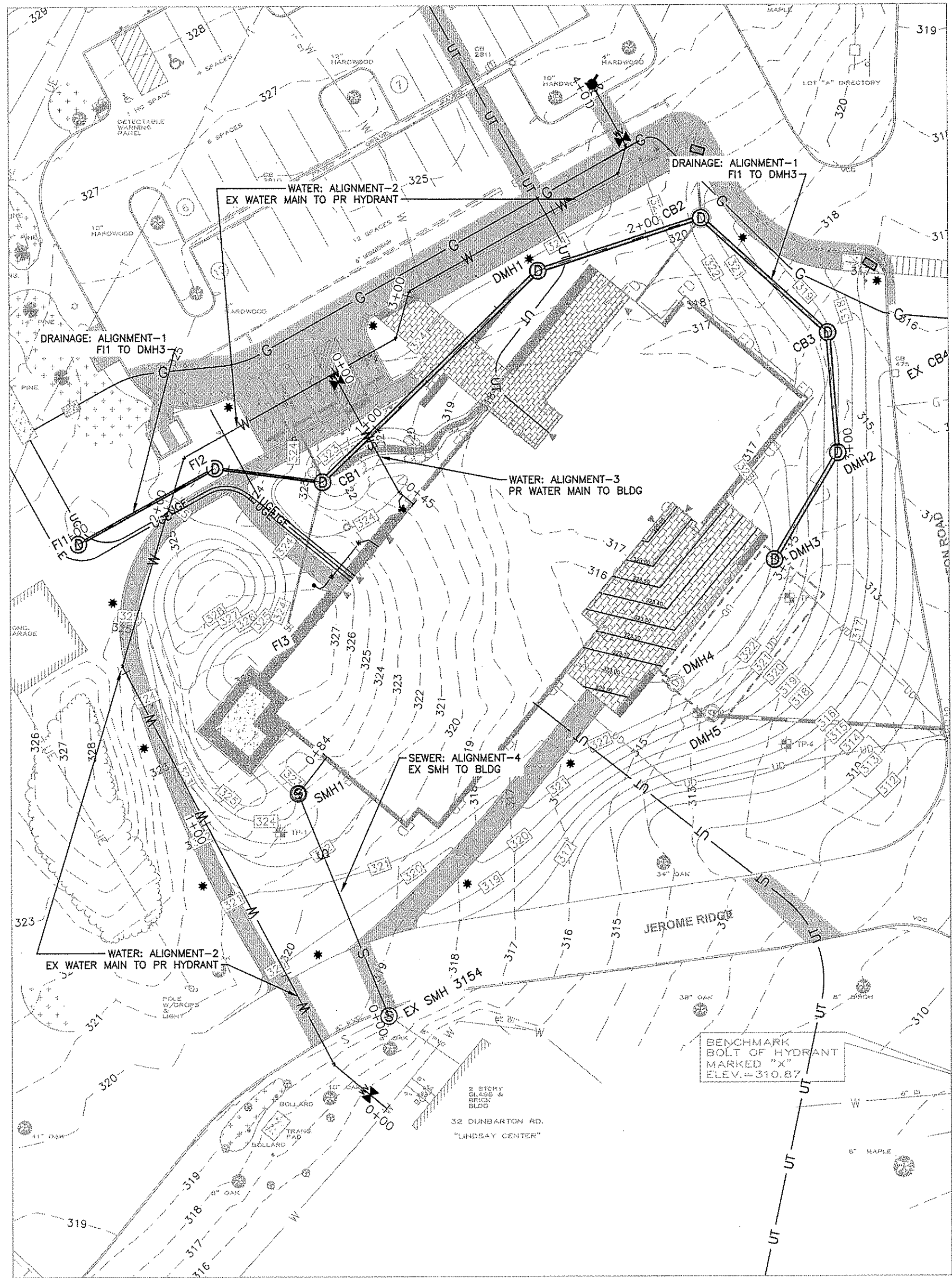
Pipe Table				
Pipe Name	Size (in)	Length (ft)	Slope ft/ft	Min. Cover (ft)
PR SMH1 TO EX SMH3154	8.000	66	-5.61%	8.2
BLDG TO PR SMH1	8.000	12	-1.57%	6.1



WATER PROFILE-2: ALIGNMENT-3
PR MAIN TO PR BLDG
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'



SEWER PROFILE: ALIGNMENT-4
EX SMH TO BLDG
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'



PLAN VIEW :
SCALE: 1" = 20'

REVISIONS		
#	DATE	DESCRIPTION
1	03/28/2023	AOT SUBMITTAL
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3	06/30/2023	CONSTRUCTION DOCUMENTS
4	07/10/2023	RESPONSE TO COMMENTS
5	08/02/2023	ADDENDUM #2

ST. PAUL'S SCHOOL
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St. Paul's School
325 PLEASANT STREET
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TAX MAP 723Z / BLOCK 13 / LOT 1

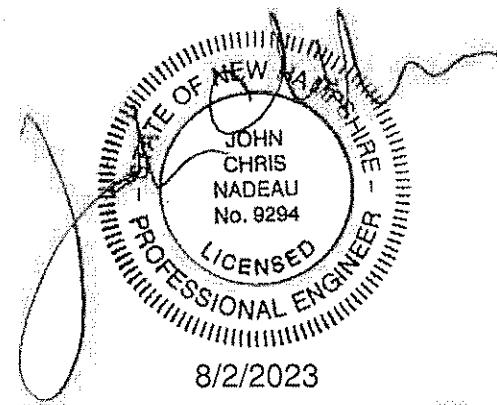
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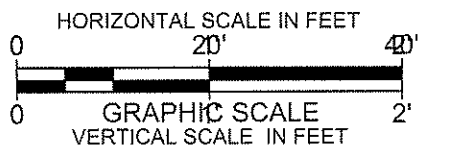


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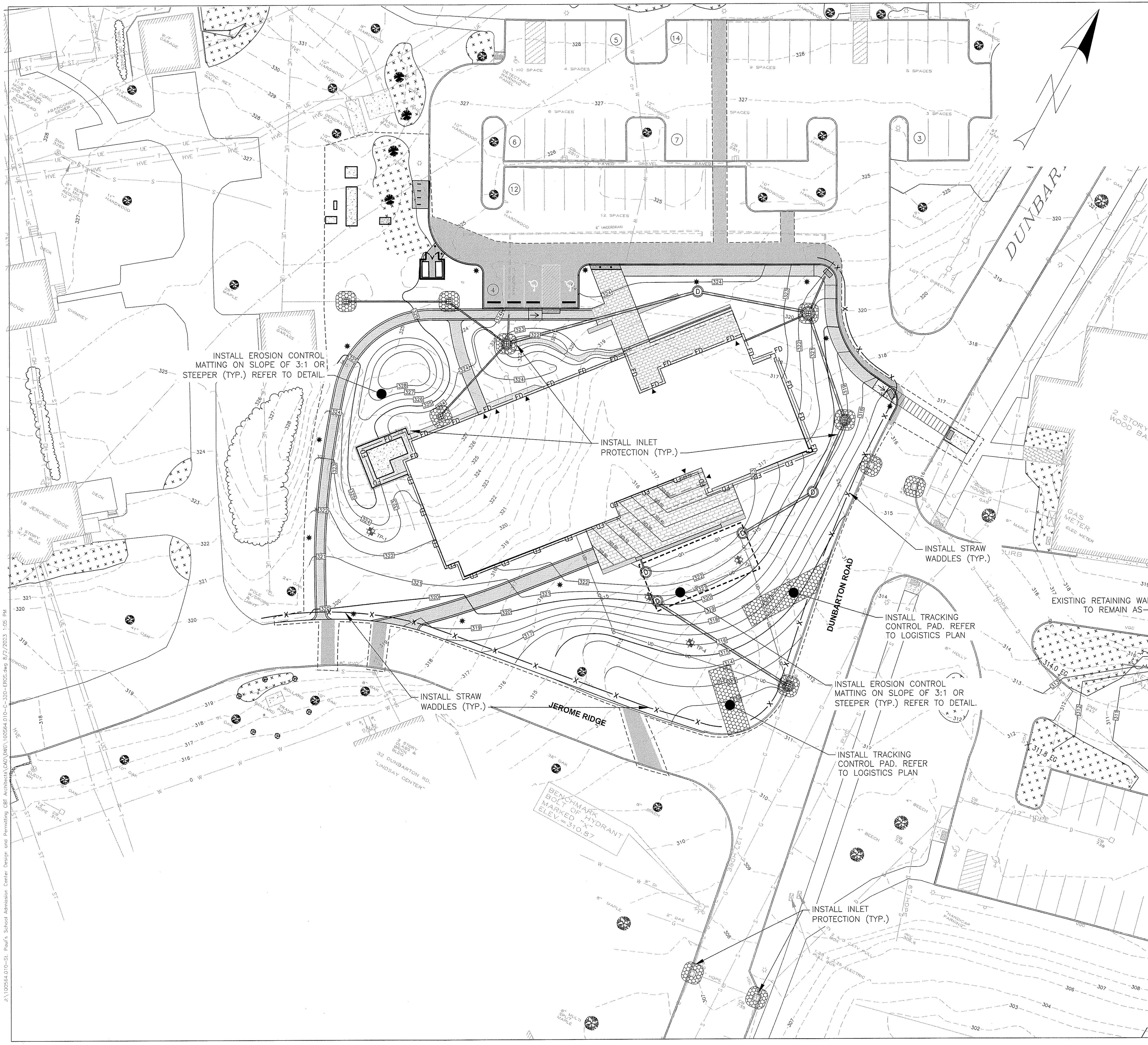


DATE:	MARCH 15, 2023
NOBIS PROJECT NO.	100564.010
DRAWN BY:	MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100564.010-C-400-UTILITY-P&P.dwg

UTILITY
PROFILE PLAN

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

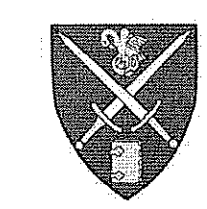
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- NOTES:
1. THIS PLAN IS NOT INTENDED TO SHOW PERMANENT DRAINAGE DESIGNS AND TO BE USED FOR TEMPORARY EROSION AND SEDIMENT CONTROL ONLY.
 2. CONTRACTOR TO GRADE ACTIVE EXCAVATION AREAS TO ALLOW MAXIMUM INFILTRATION OF STORMWATER AND MINIMIZE RUNOFF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

REVISIONS		
#	DATE	DESCRIPTION
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4	07/10/2023	RESPONSE TO COMMENTS
5	08/02/2023	ADDENDUM #2

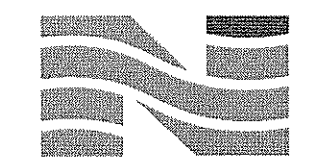
ST. PAUL'S SCHOOL
ADMISSION CENTER



St. Paul's School
325 PLEASANT STREET
CONCORD, NH 03301
TAX MAP 723Z / BLOCK 13 / LOT 1

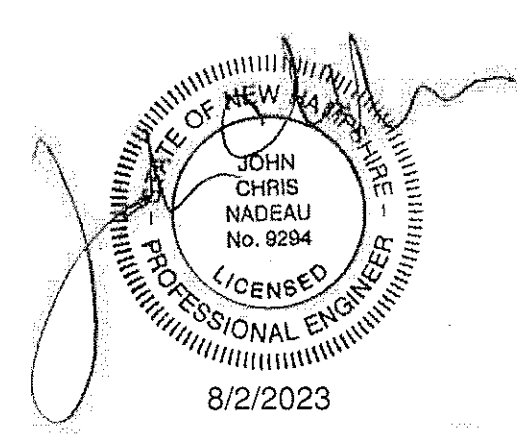
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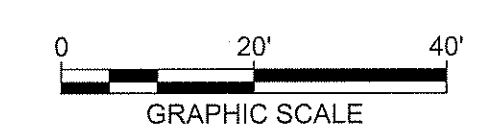


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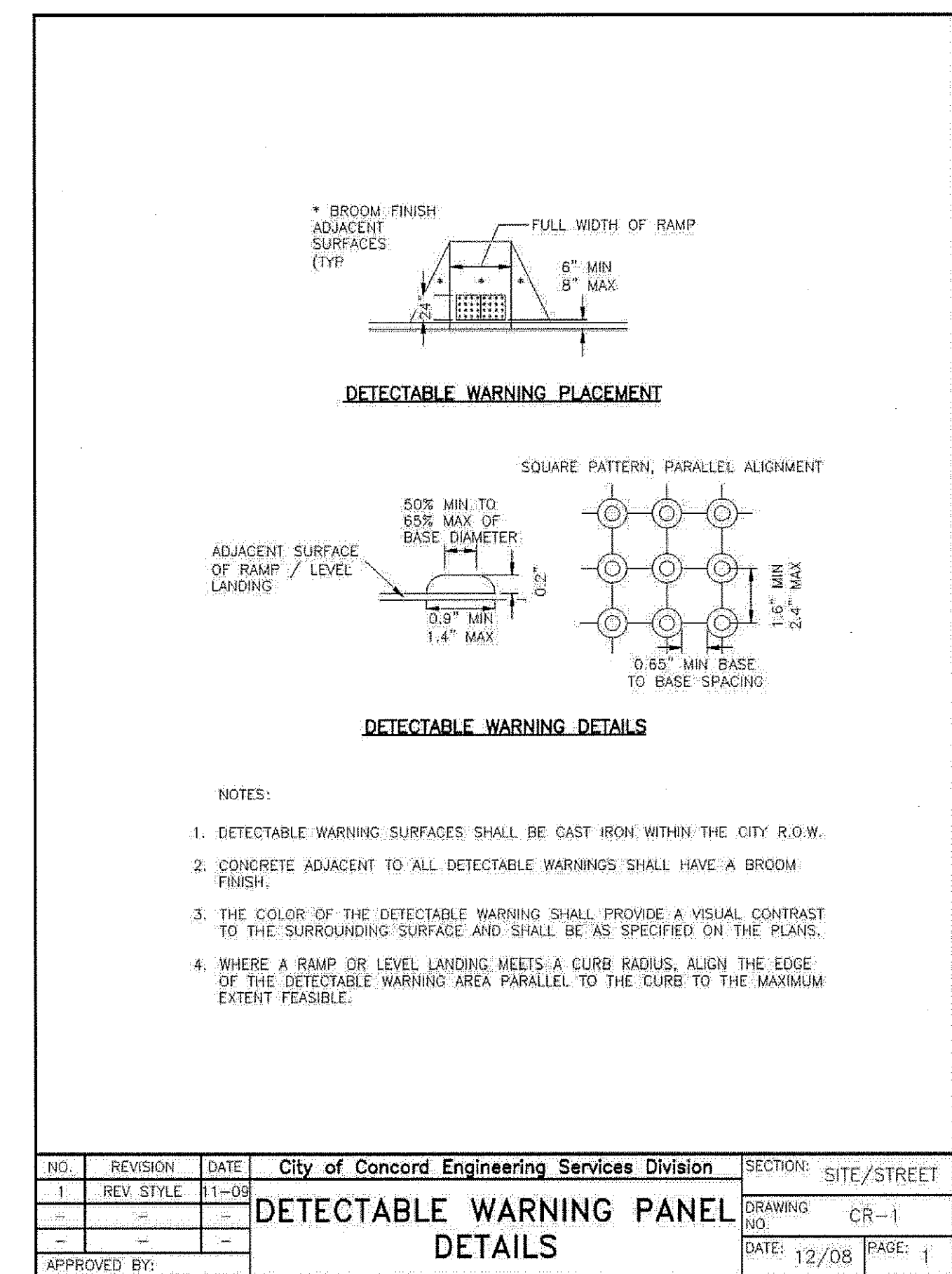
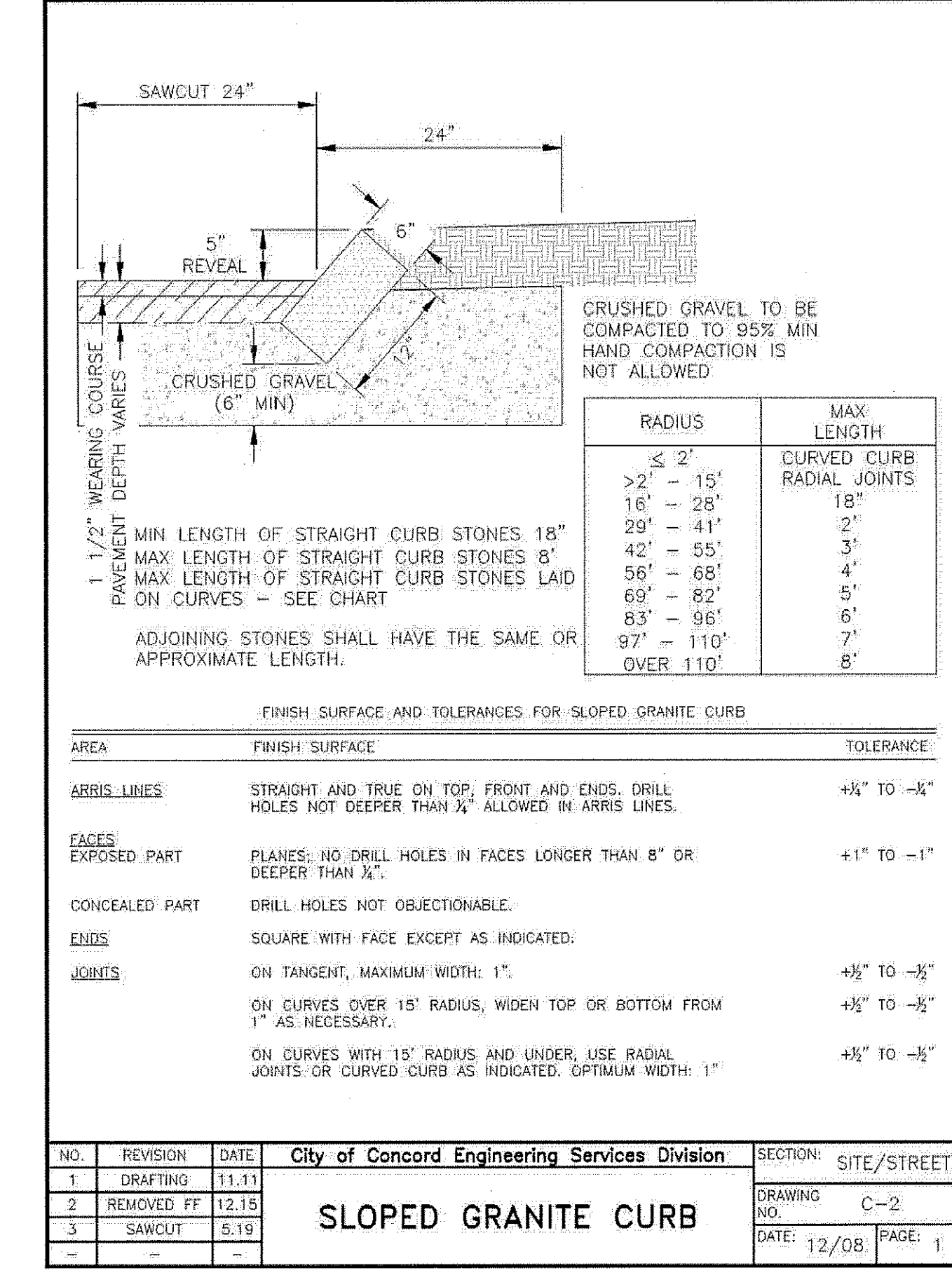
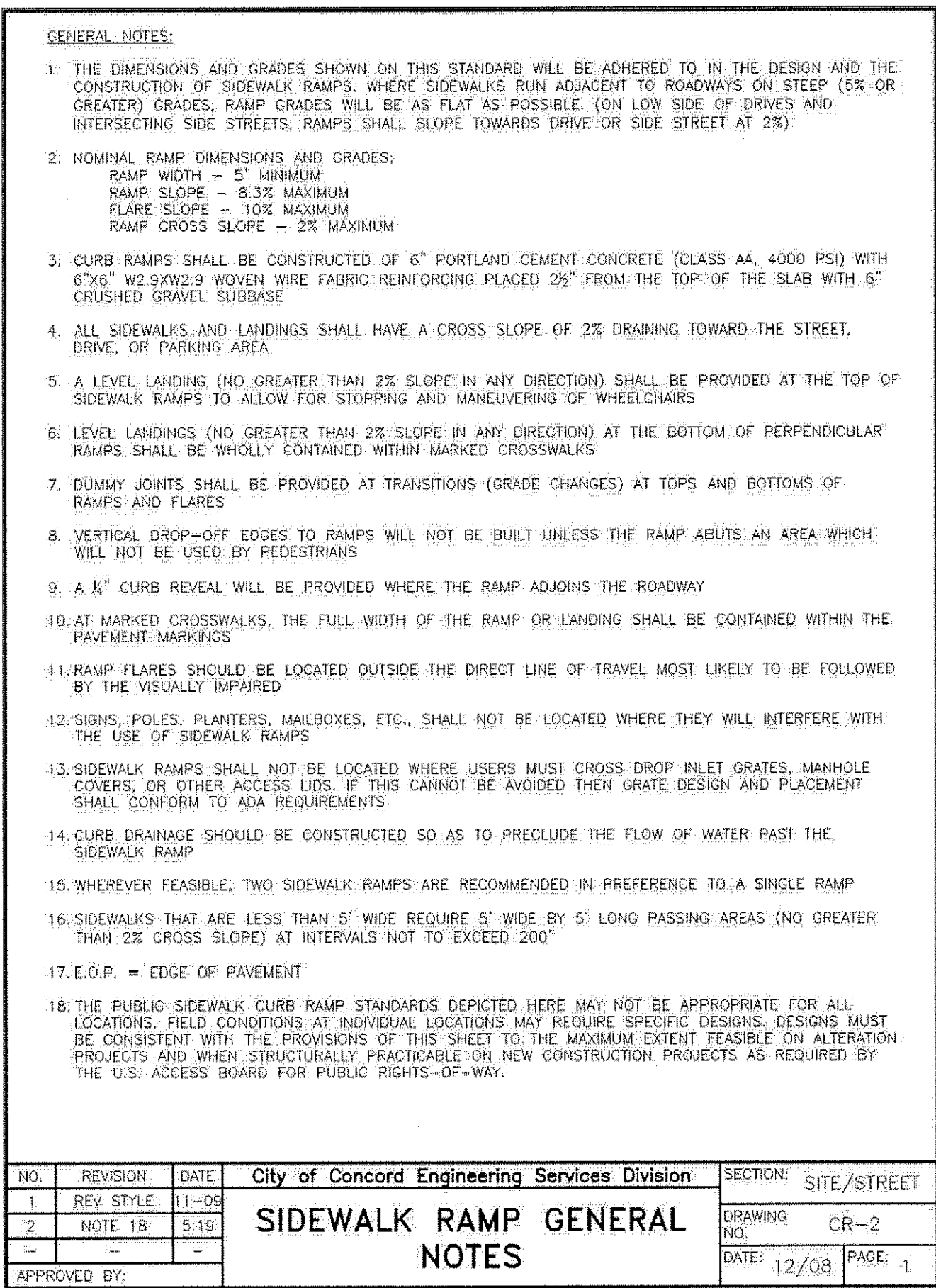
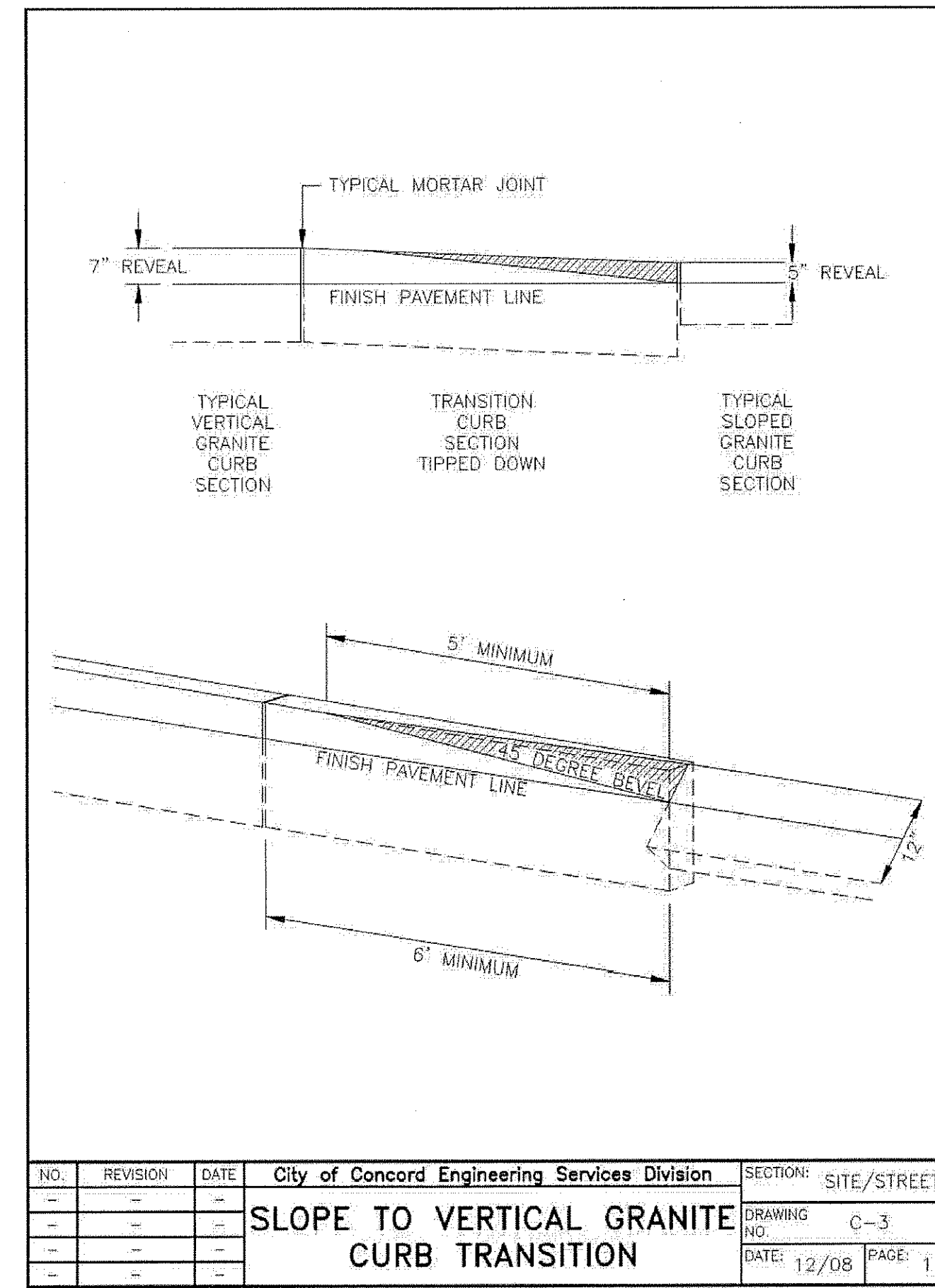
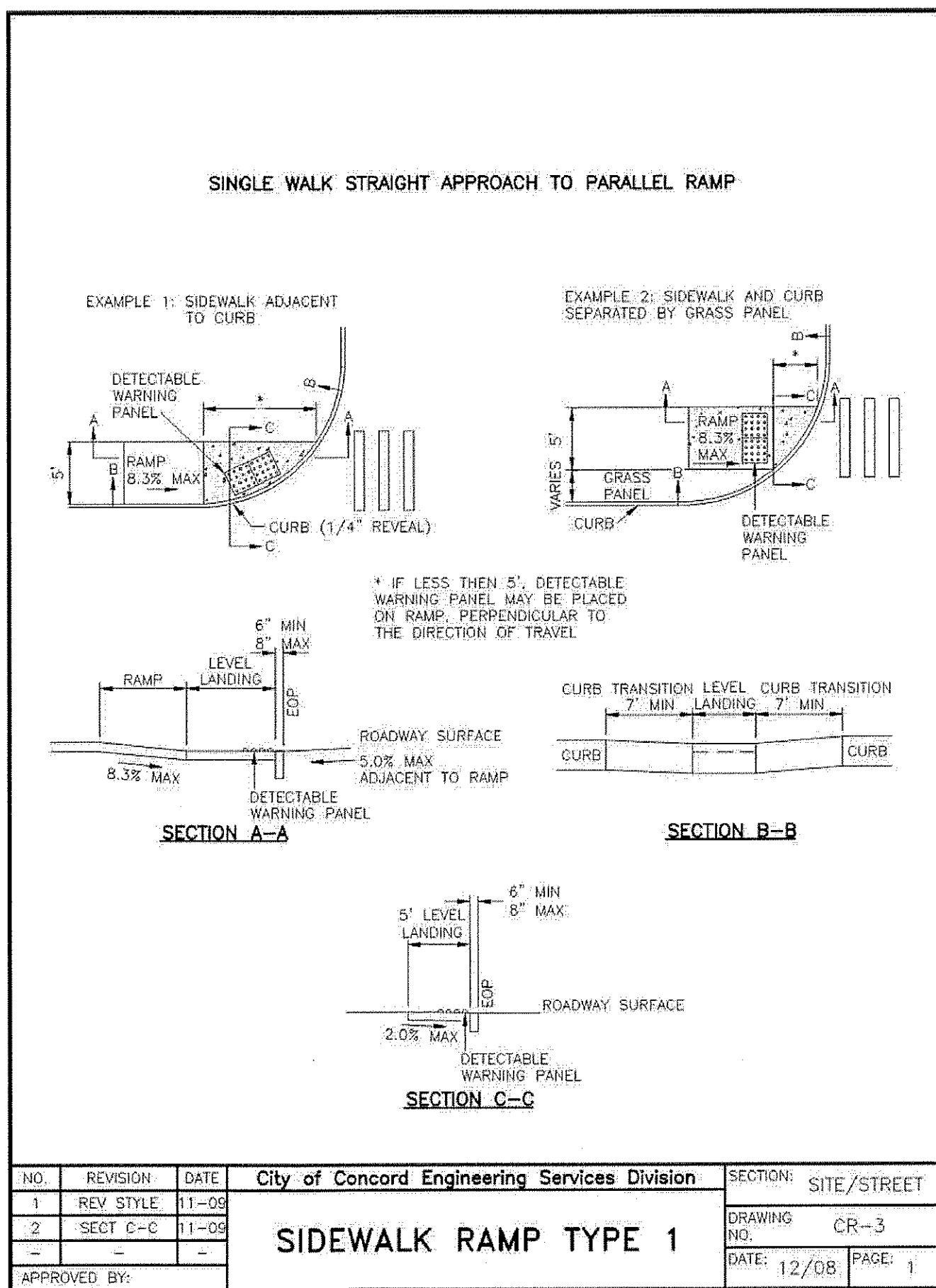
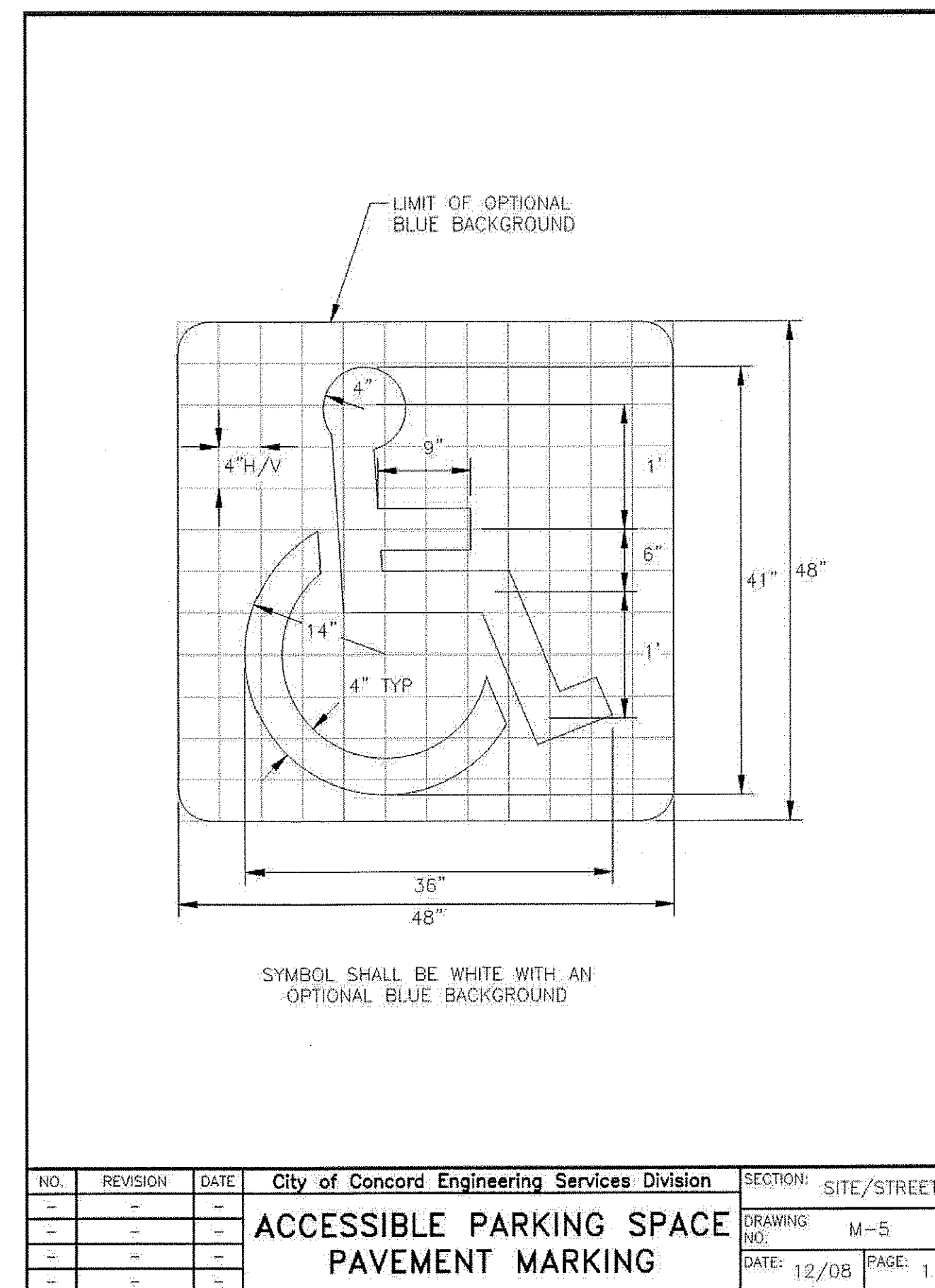
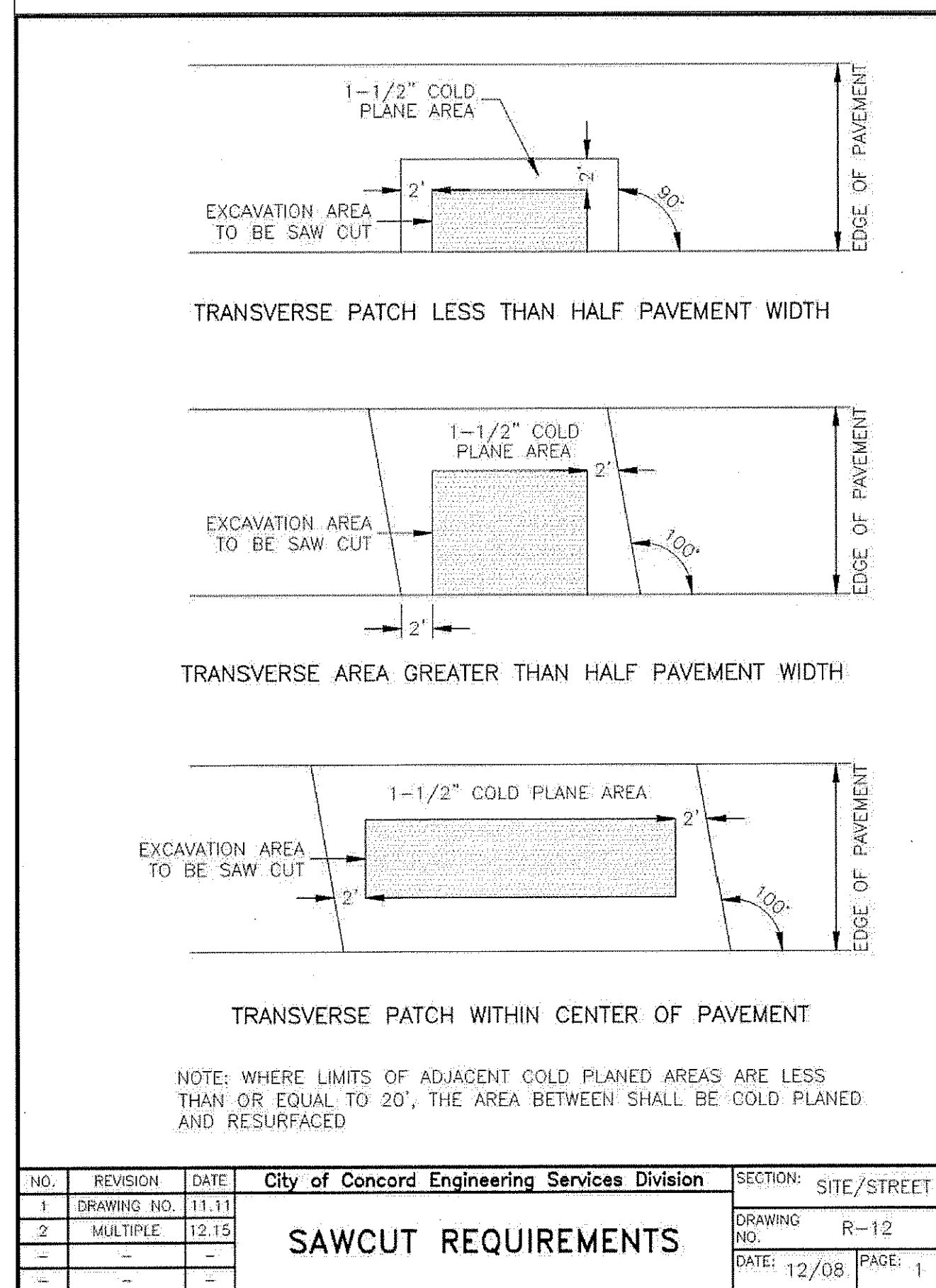
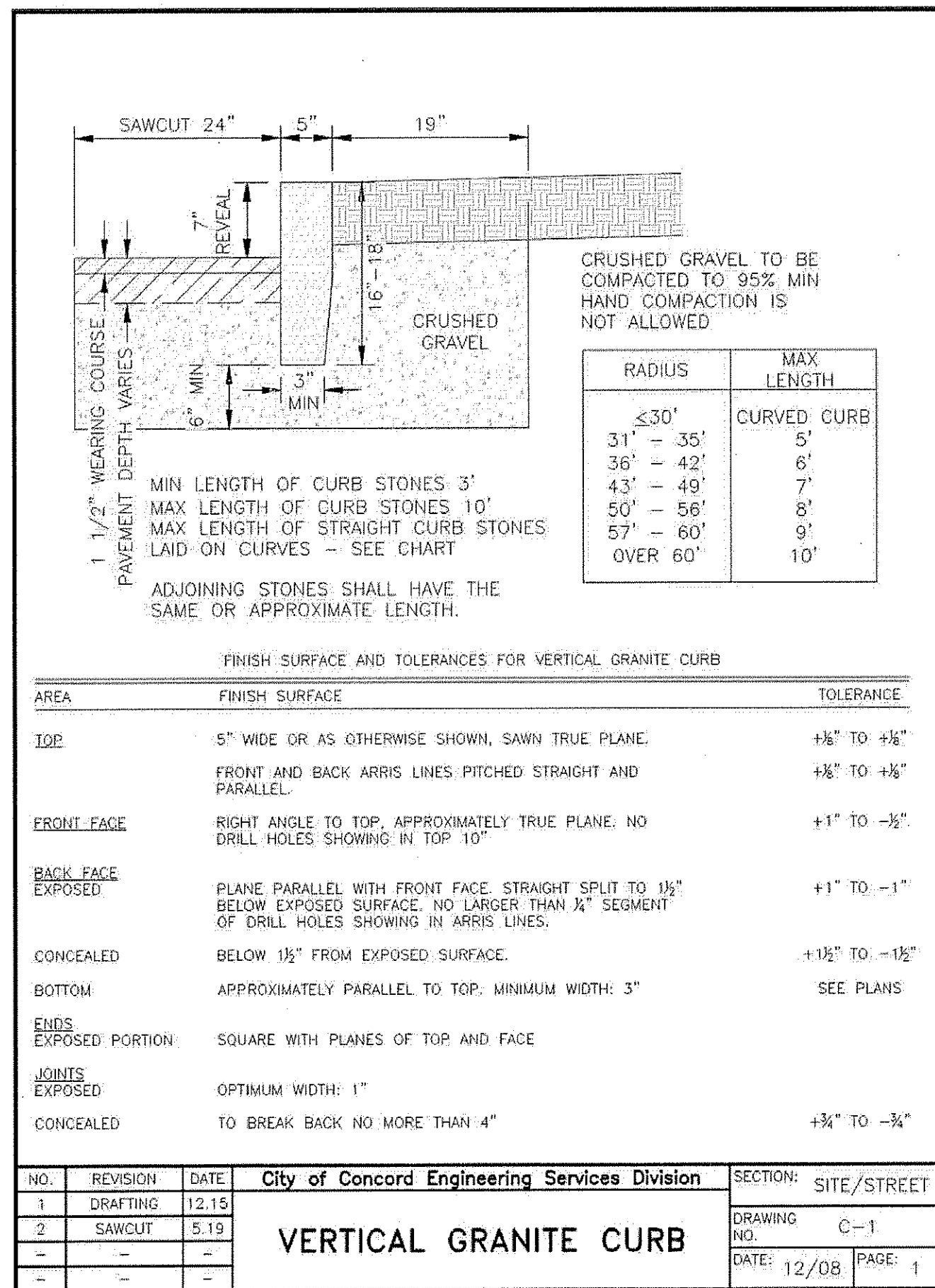
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NOBIS PROJECT NO.	100564.010
DRAWN BY:	MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100564.010-C-320-EROS.dwg

EROSION
CONTROL PLAN

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

C-6.0

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REVISIONS	DATE	DESCRIPTION
#		
Δ	03/28/2023	AOT SUBMITTAL
Δ	05/09/2023	RESPONSE TO COMMENTS
Δ	06/30/2023	CONSTRUCTION DOCUMENTS
Δ	07/10/2023	RESPONSE TO COMMENTS
Δ	08/02/2023	ADDENDUM #2

ST. PAUL'S SCHOOL ADMISSION CENTER



St. Paul's School
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TAX MAP 723Z / BLOCK 13 / LOT 1

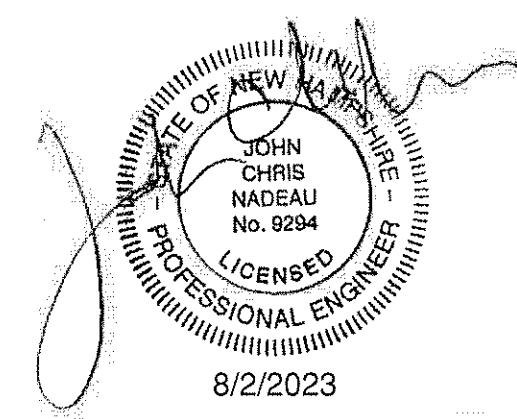
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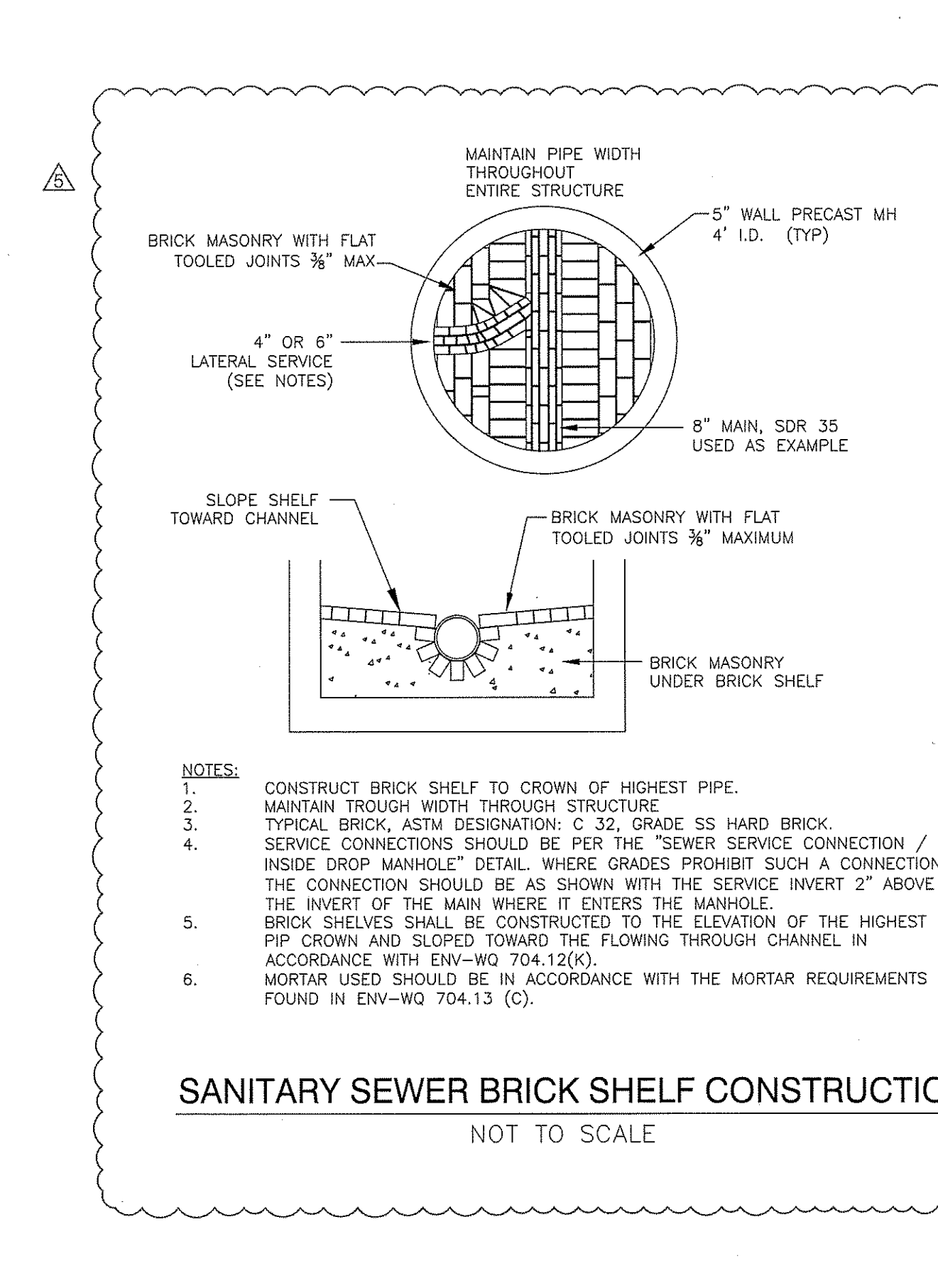
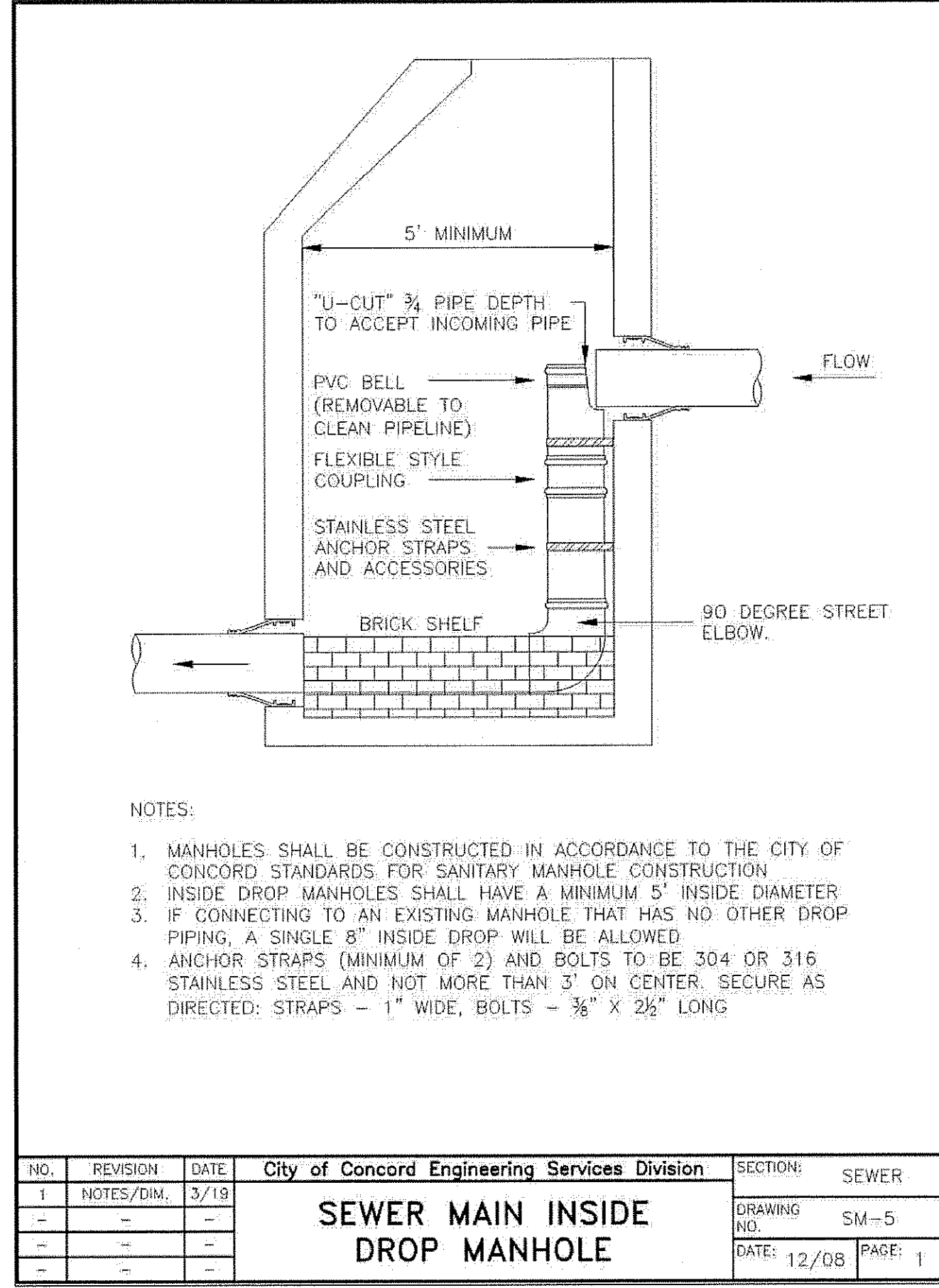
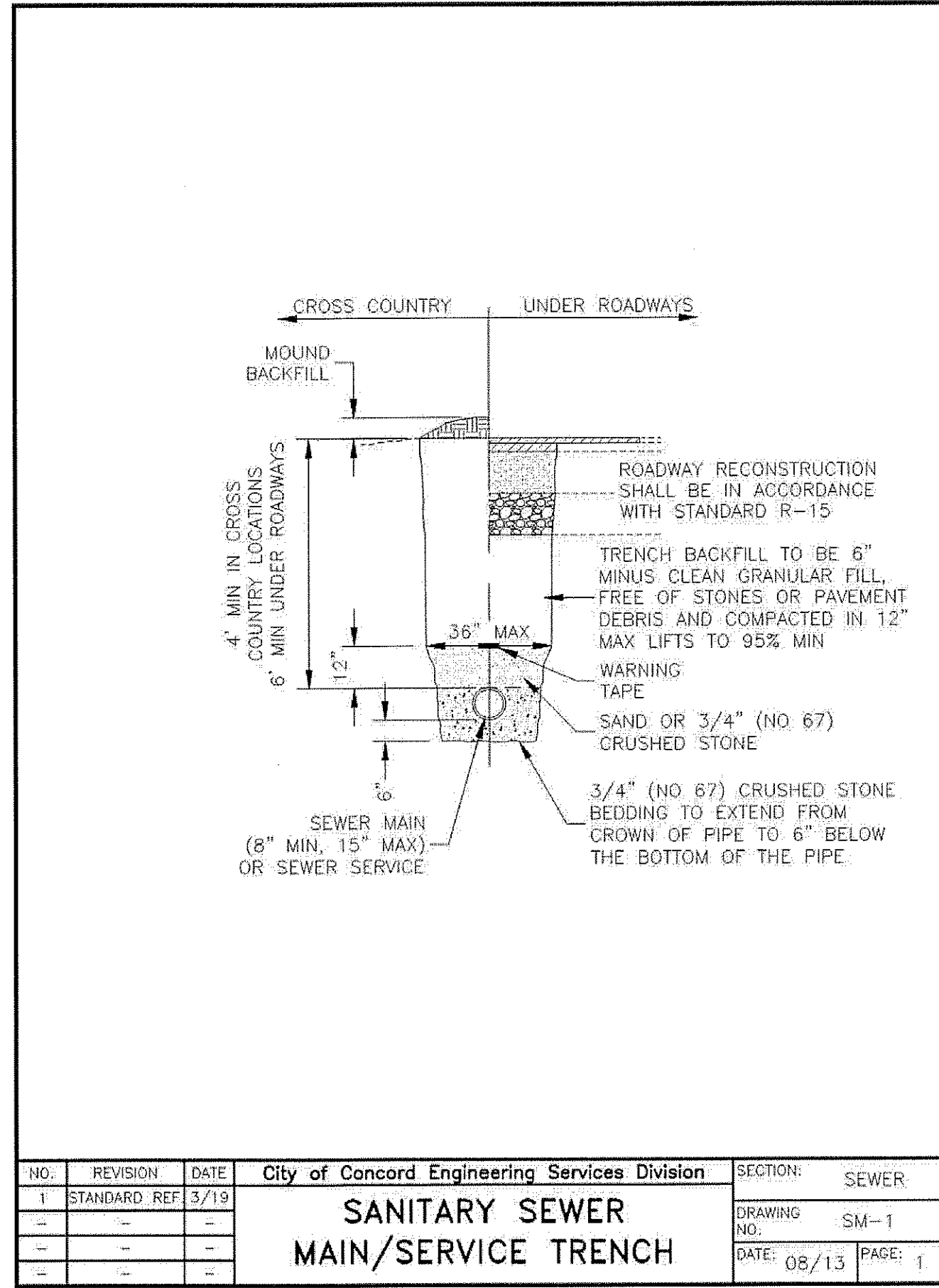
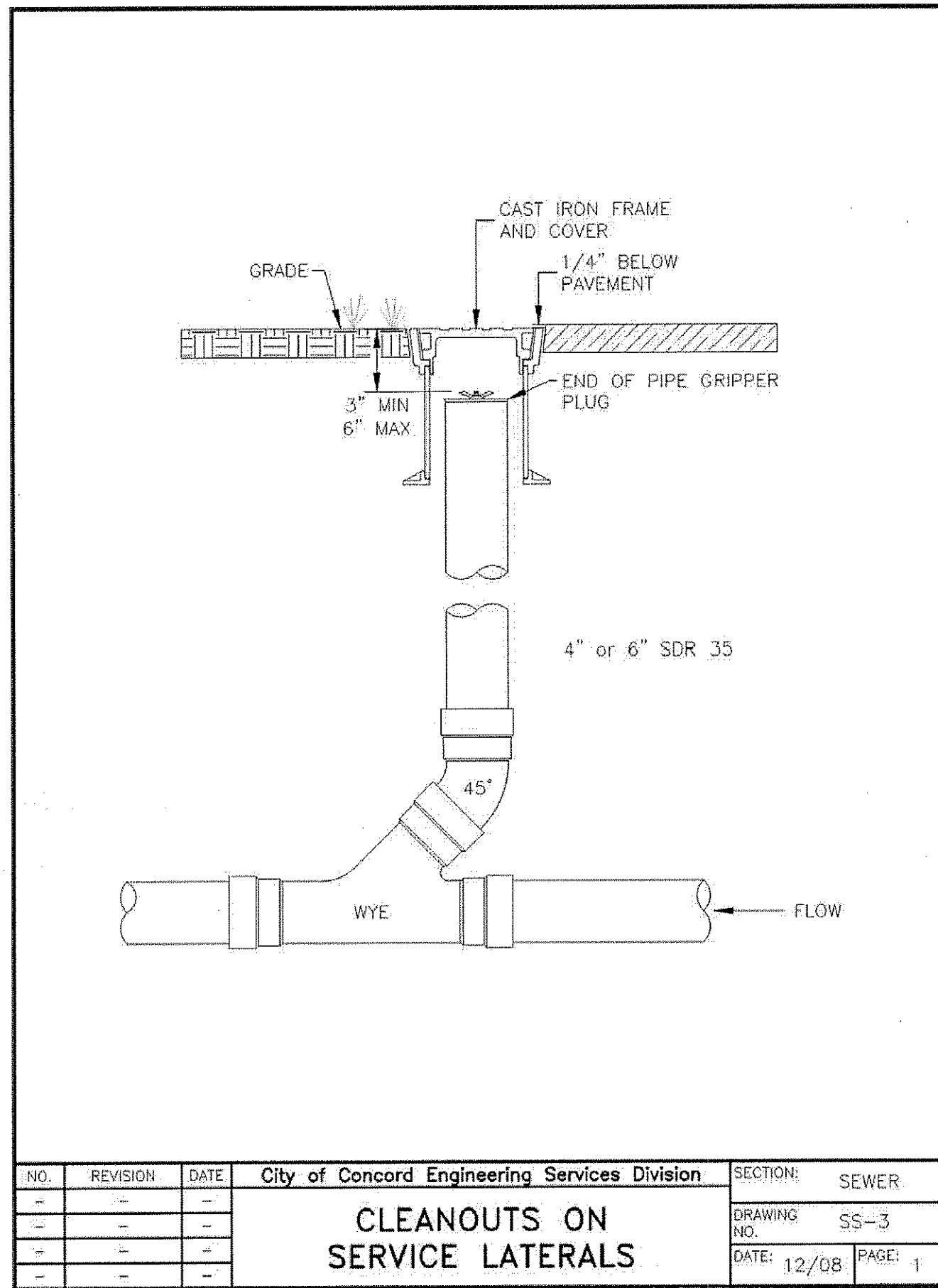
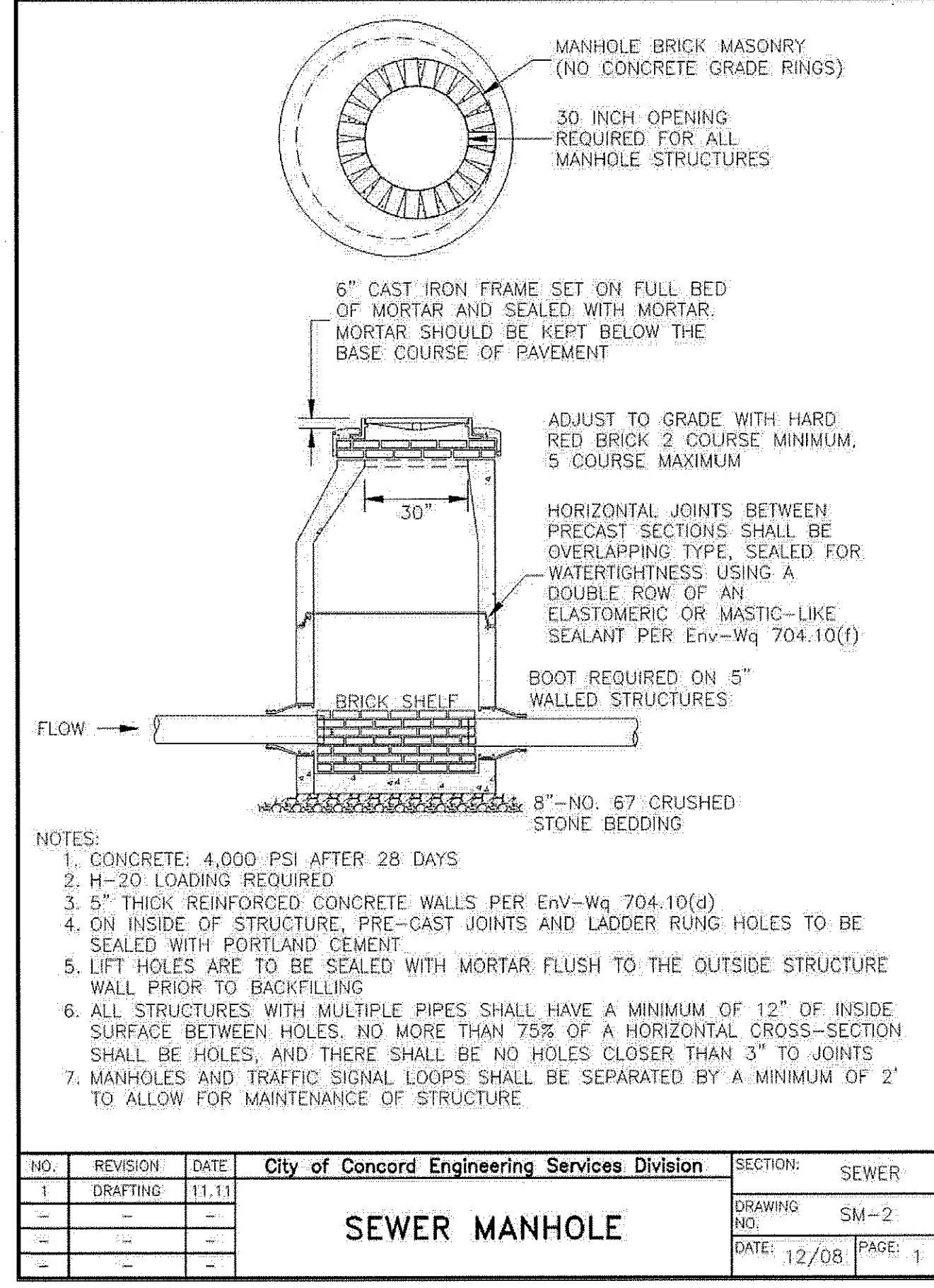
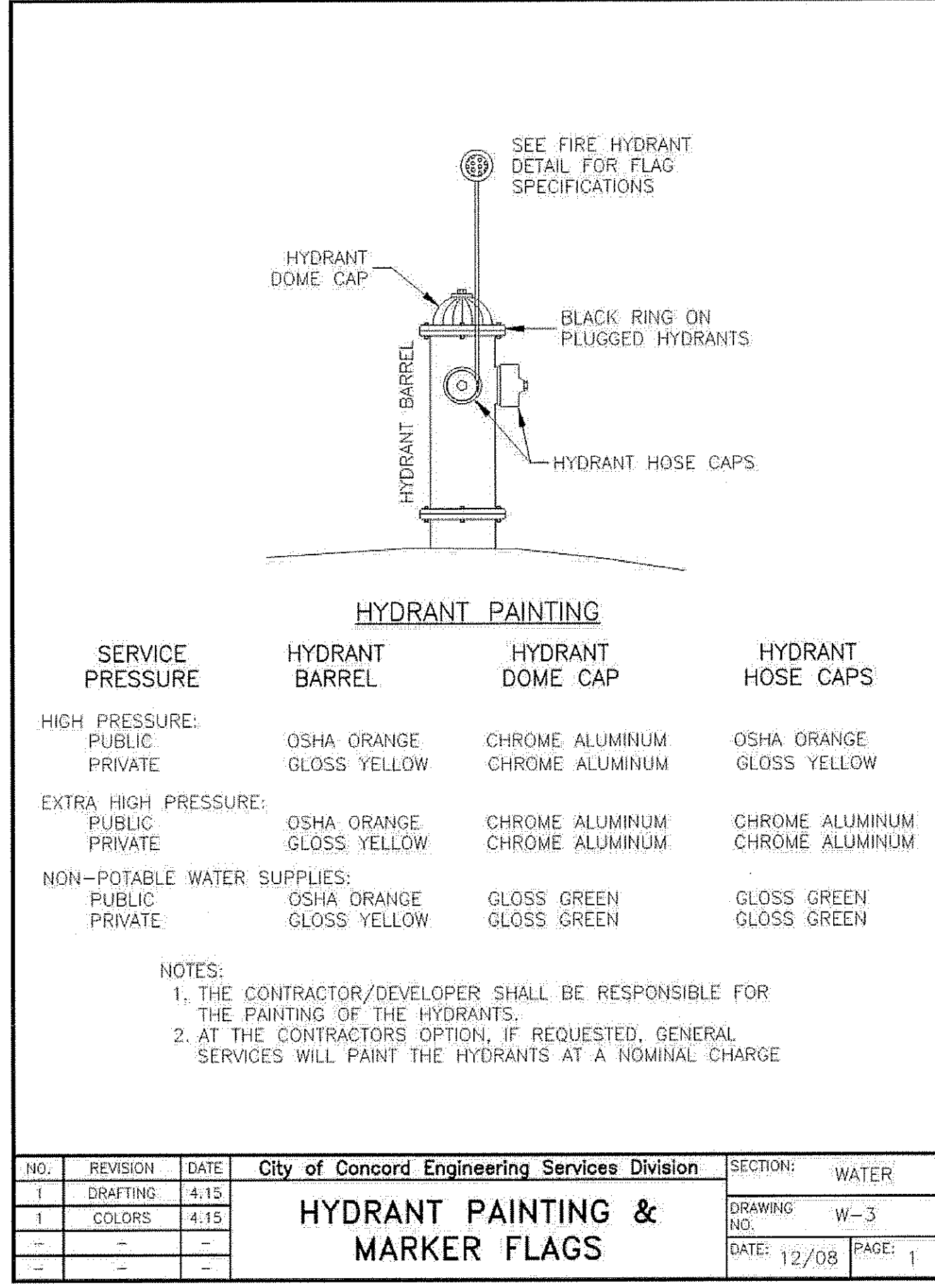
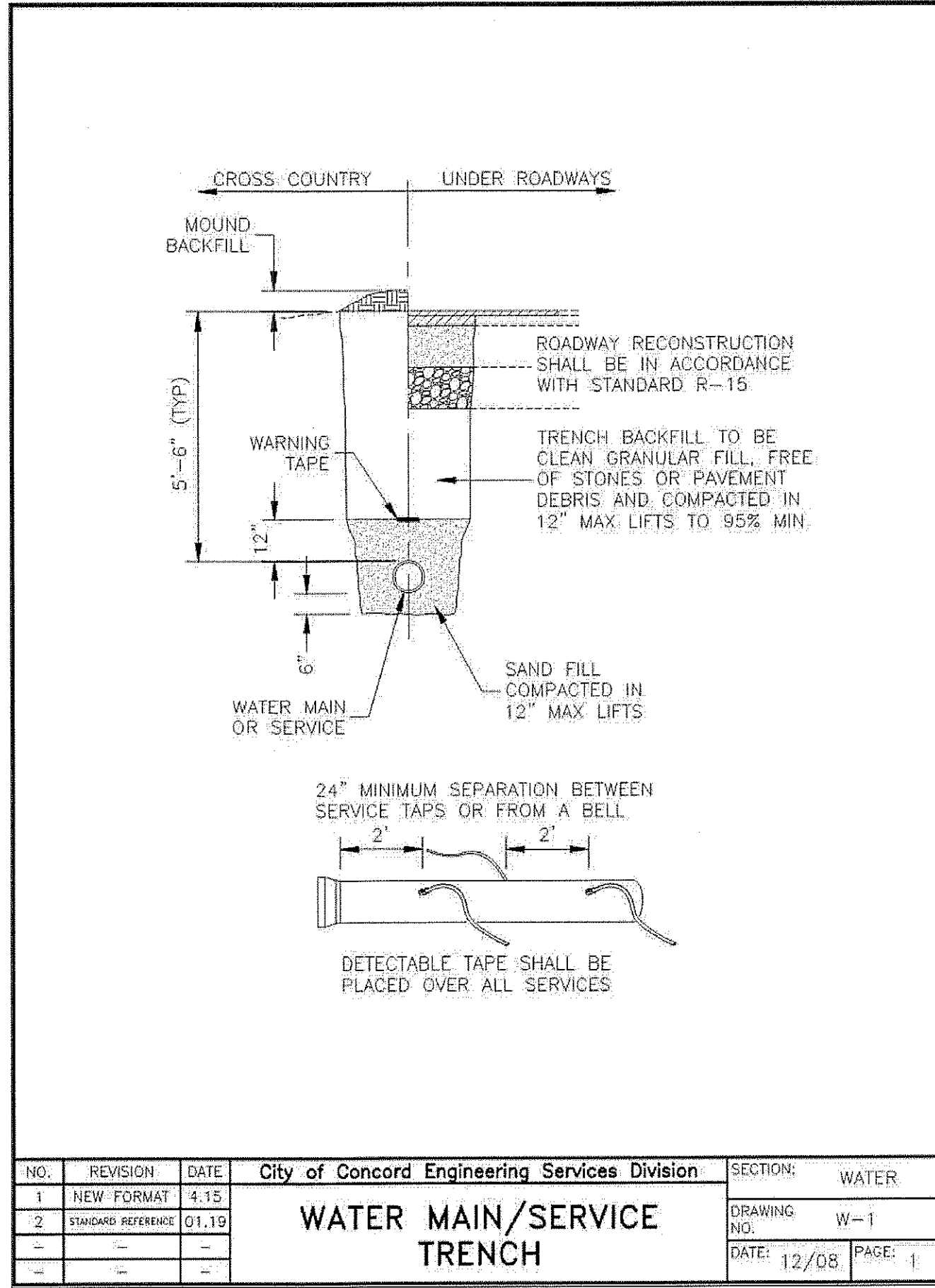
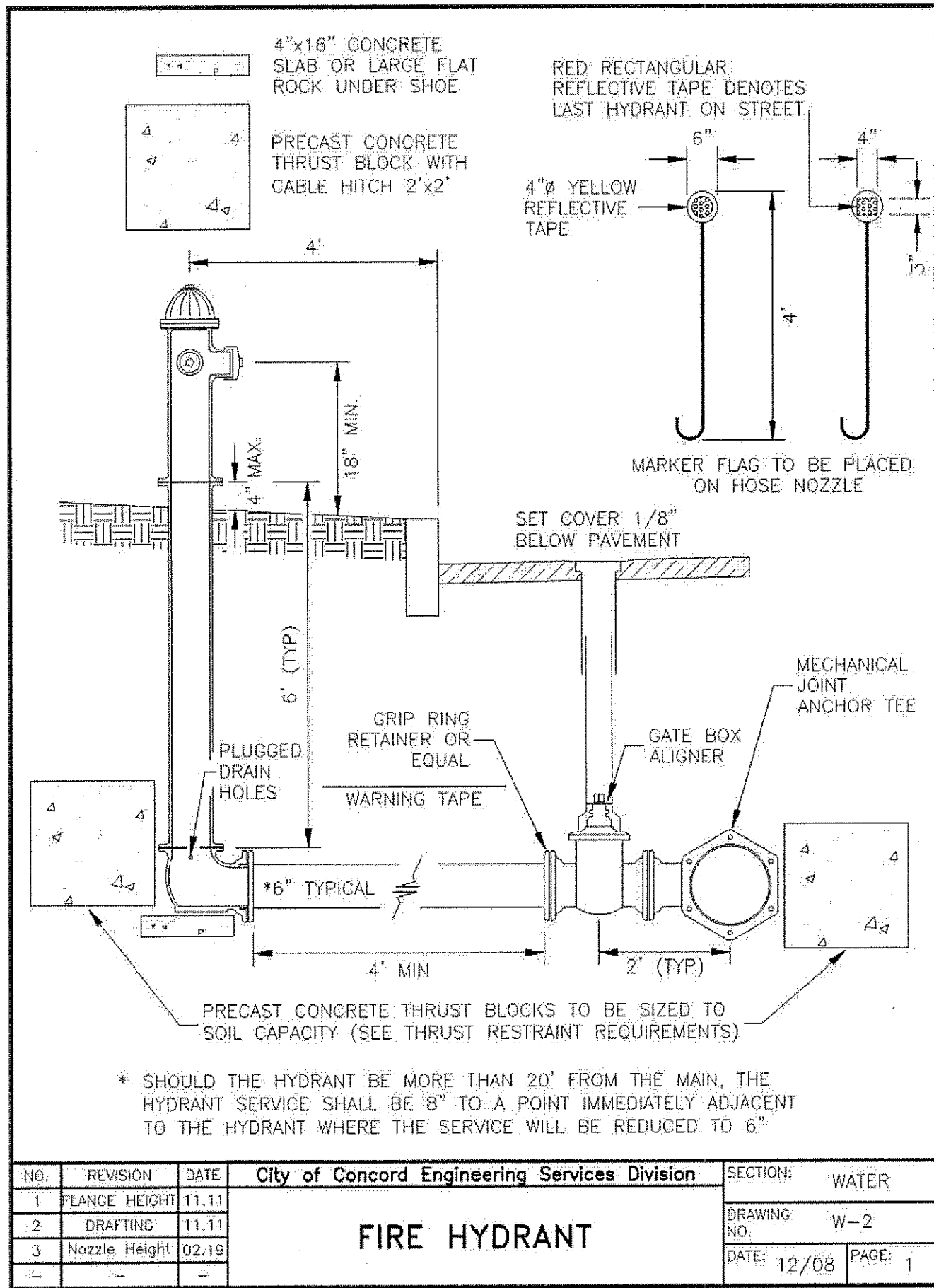
DATE: MARCH 15, 2023
NOBIS PROJECT NO. 100564.010
DRAWN BY: MGD
CHECKED BY: JCN
CAD DRAWING FILE:
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CONSTRUCTION
DETAILS

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

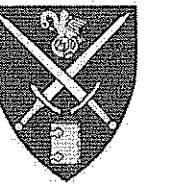
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4376-15



REVISIONS		
#	DATE	DESCRIPTION
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2	05/09/2023	RESPONSE TO COMMENTS
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ST. PAUL'S SCHOOL ADMISSION CENTER



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TAX MAP 723Z / BLOCK 13 / LOT 1

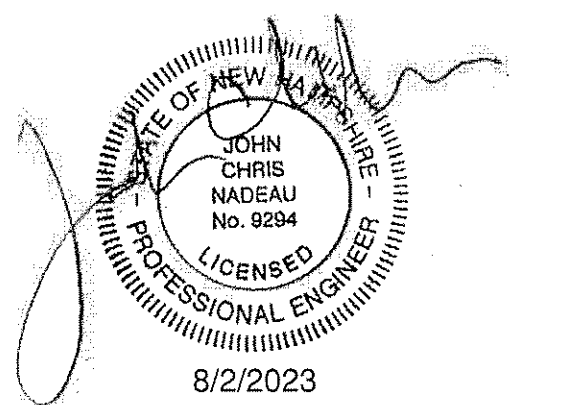
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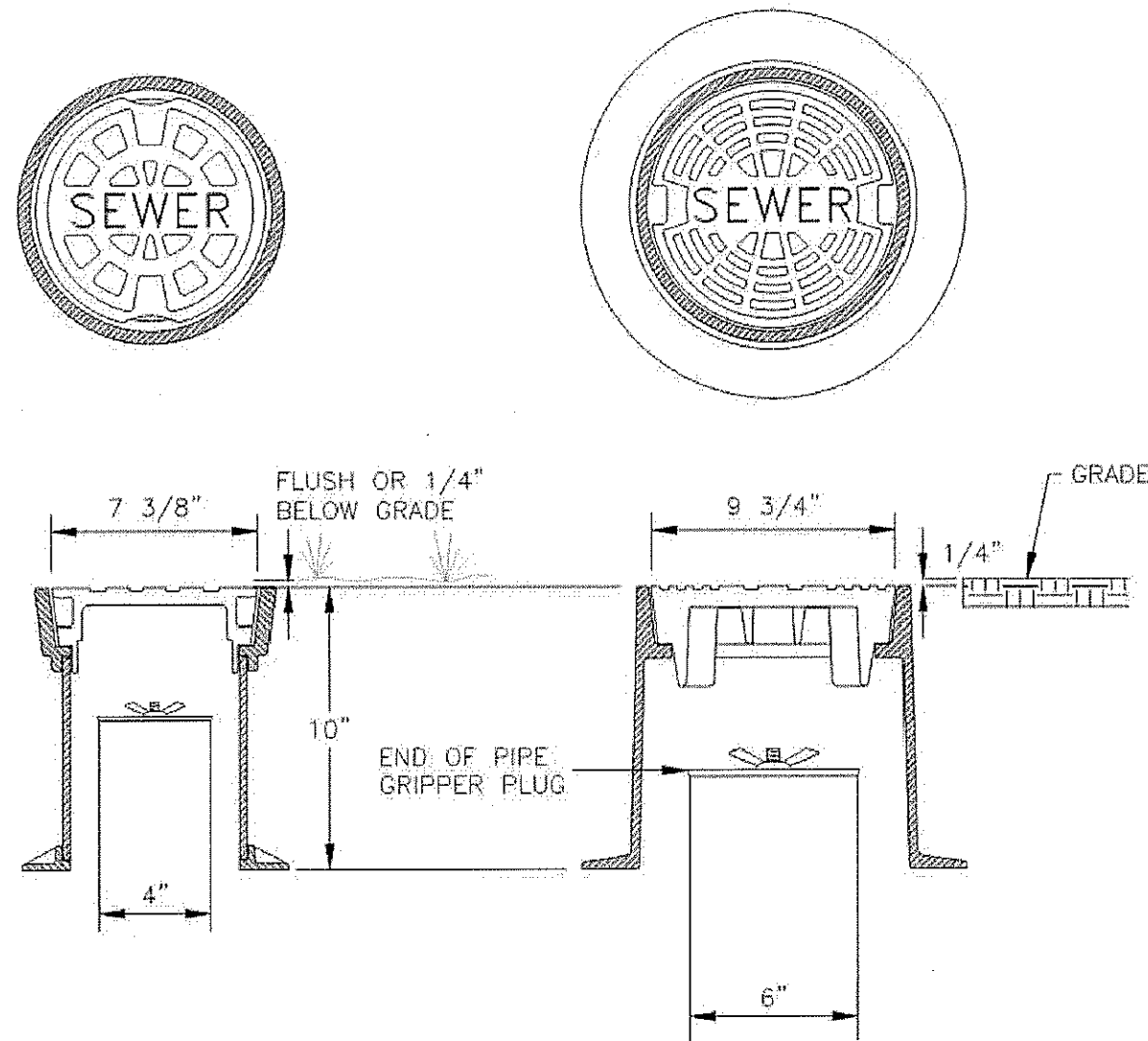
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AS NOTED

DATE:	MARCH 15, 2023
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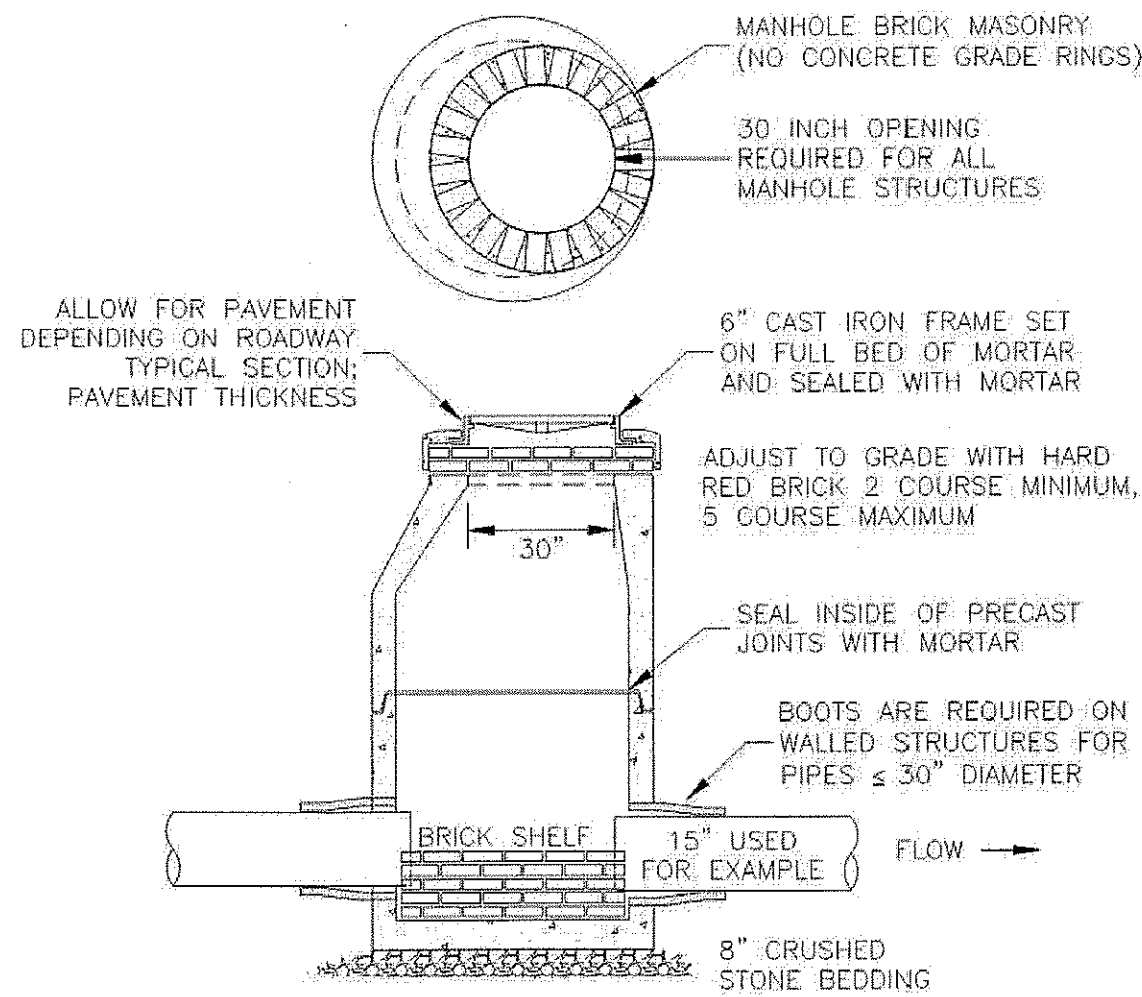
CONSTRUCTION DETAILS

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

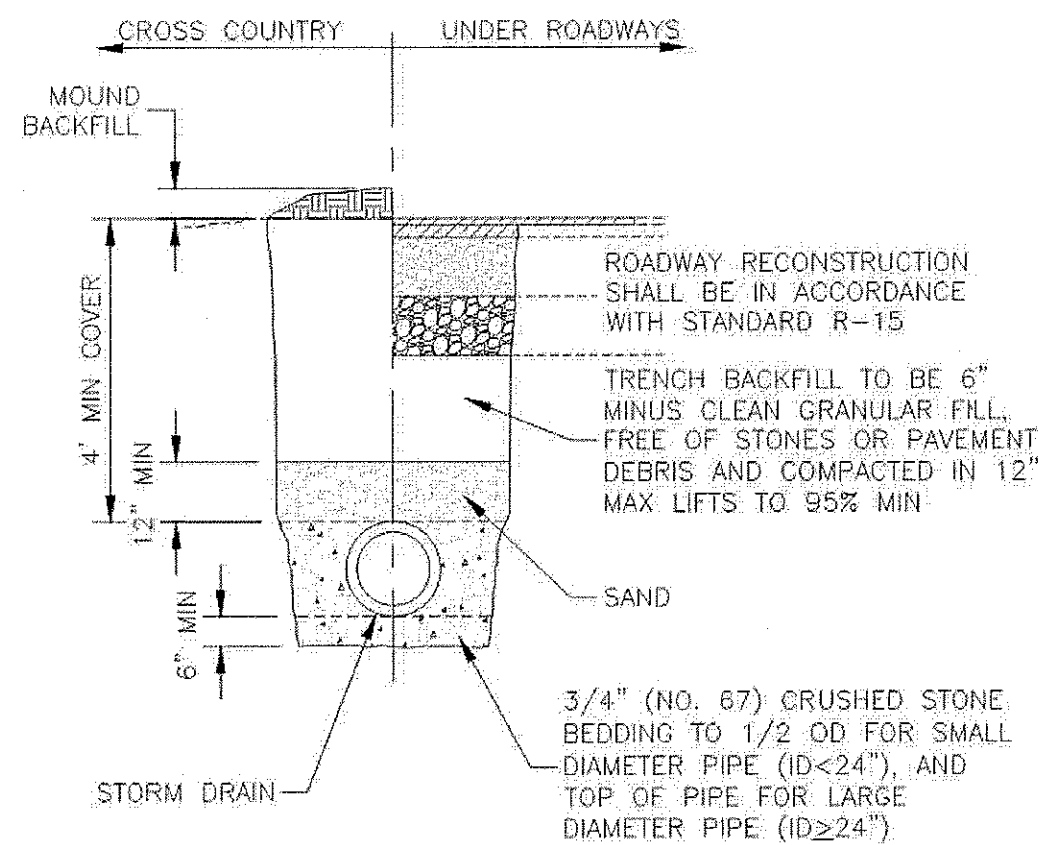
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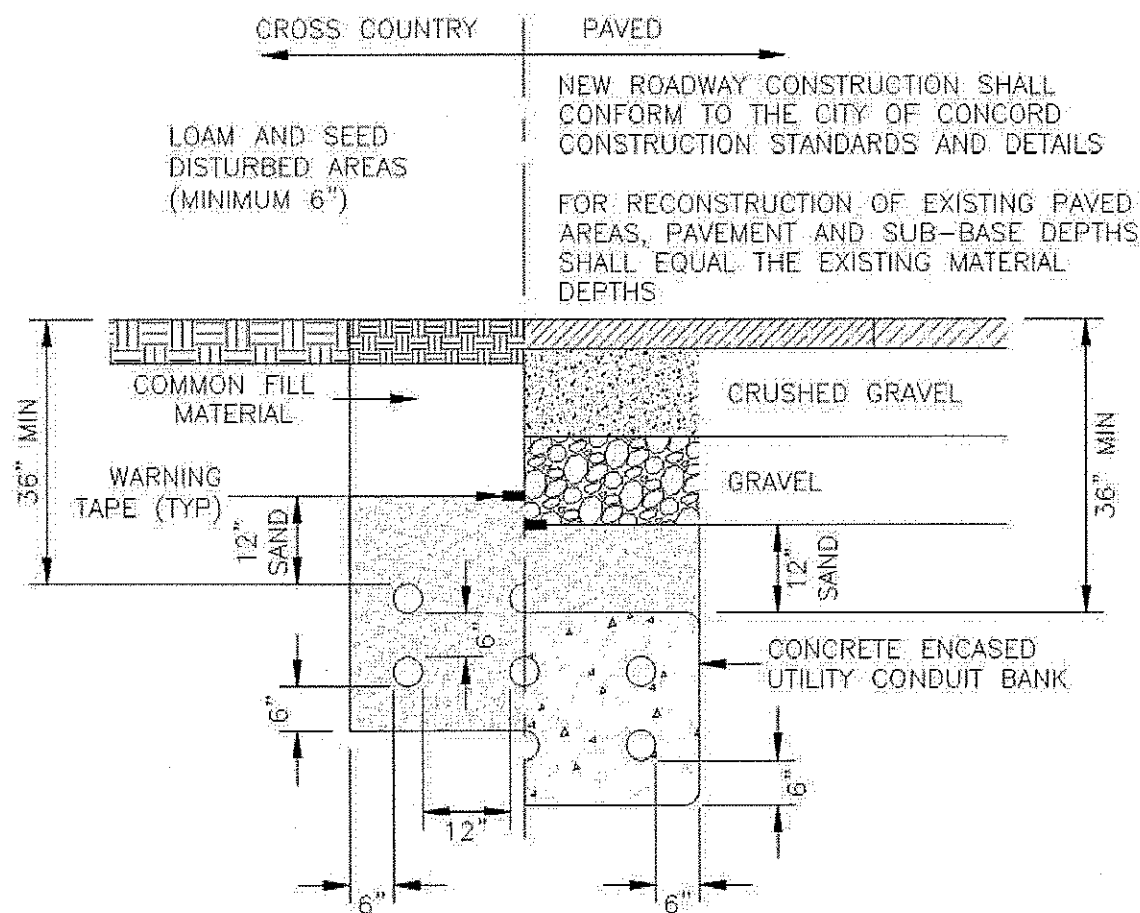
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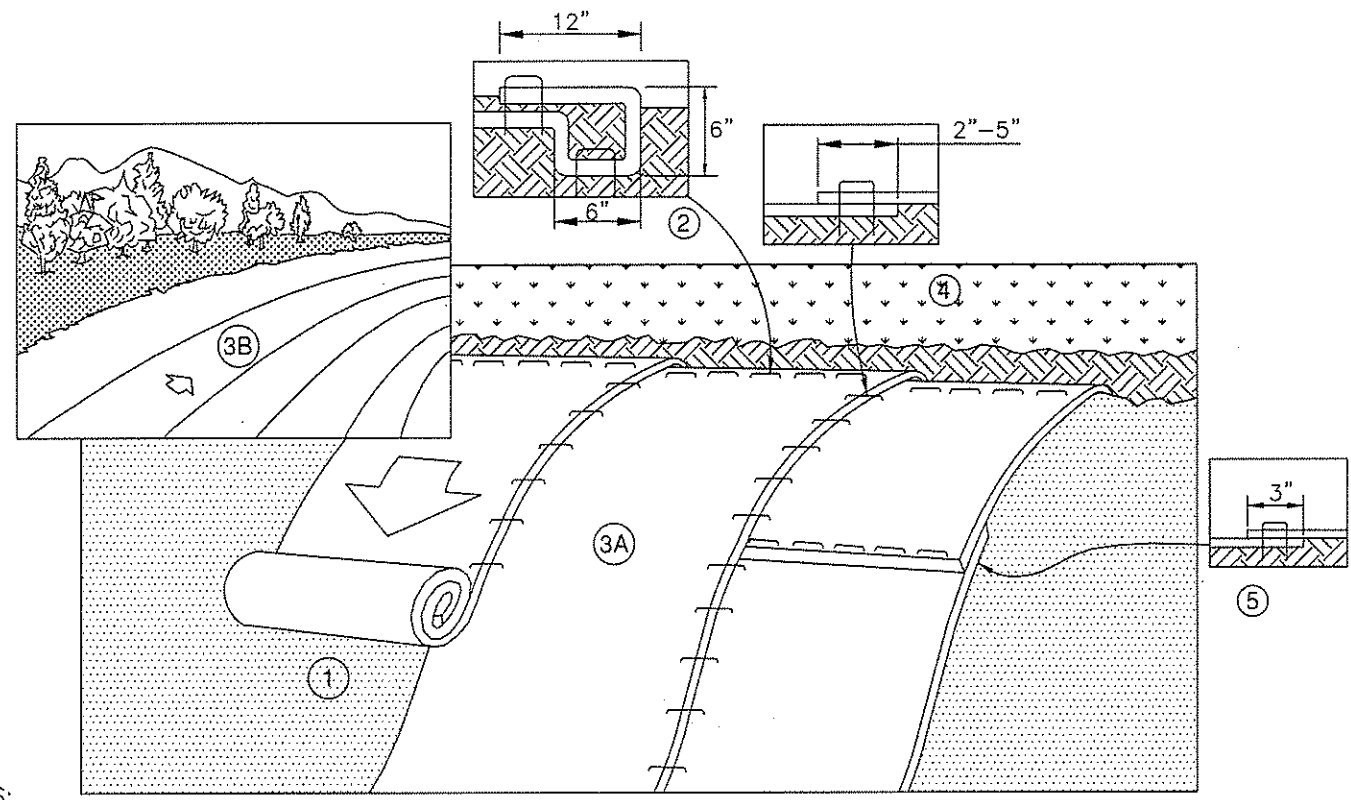
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NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION: STORM
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NO. REVISION DATE			City of Concord Engineering Services Division	SECTION: SITE/STREET
			TYPICAL UTILITY CONDUIT INSTALLATION	DRAWING NO. U-1
				DATE: 03/15
				PAGE: 1



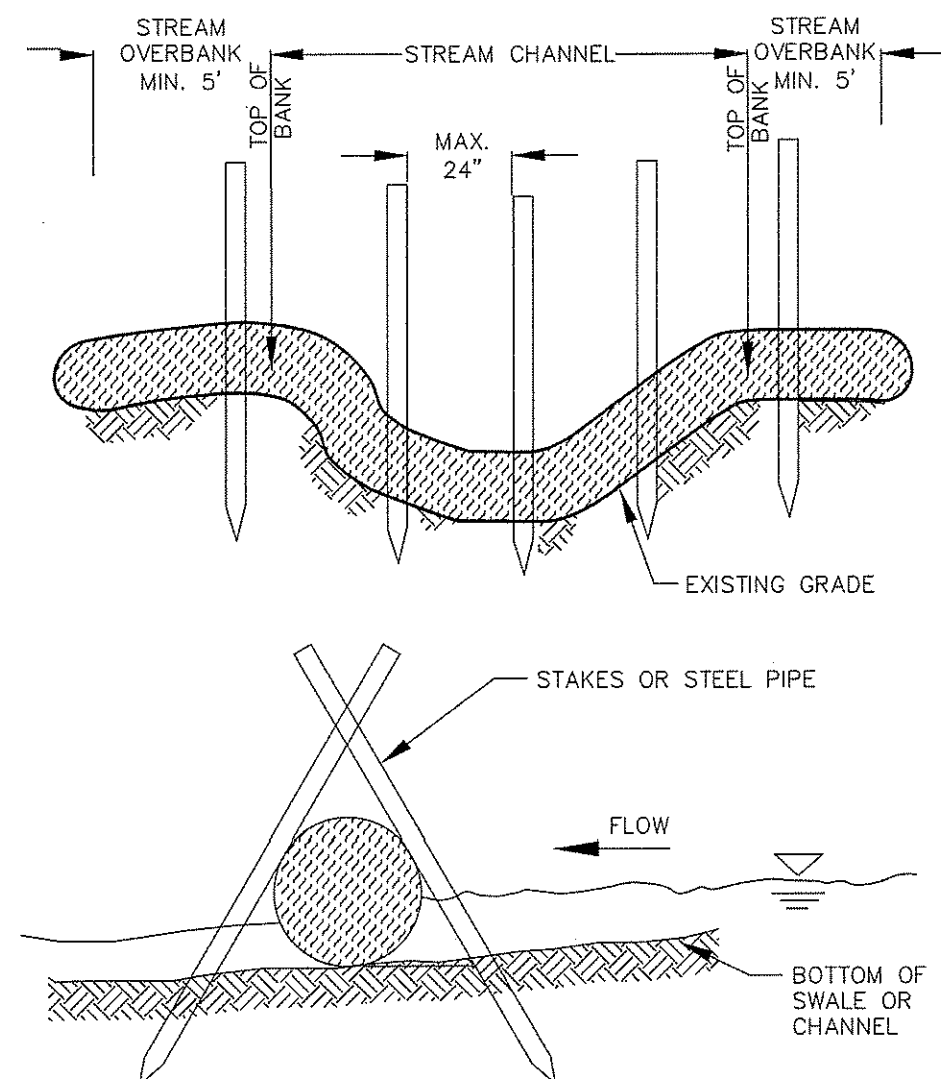
NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
6. THERE SHALL BE NO PLASTIC, OR MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES MATERIAL UTILIZED.

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

EROSION CONTROL BLANKET SLOPE INSTALLATION
(NORTH AMERICAN GREEN)

NOT TO SCALE

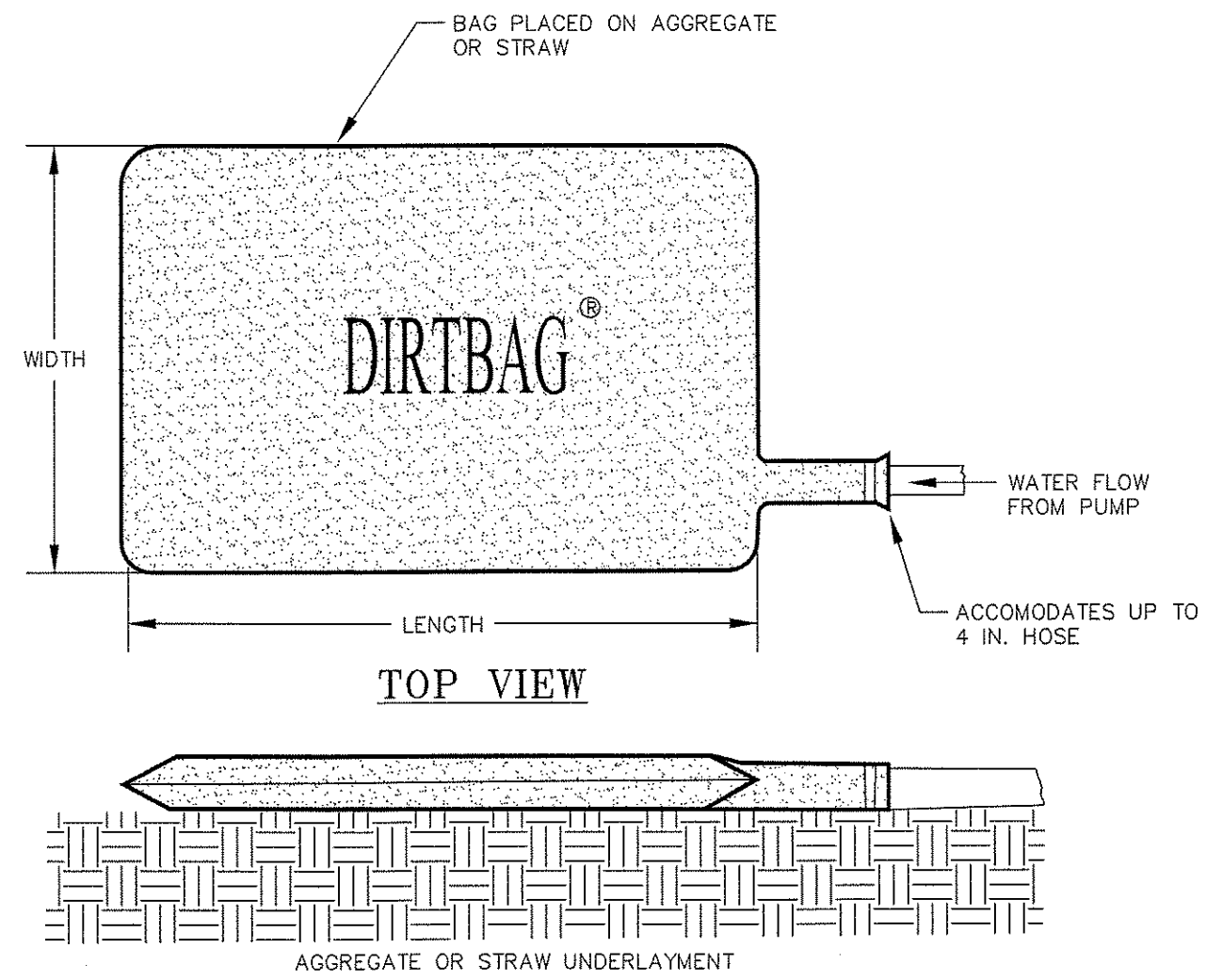


NOTES:

1. TEMPORARY SEDIMENT LOG (FILTREXX SILTSOCKX OR APPROVED EQUAL) SHOULD BE LOCATED AS SHOWN ON EROSION CONTROL PLANS AND ACROSS ANY WATER COURSE DOWNSTREAM FROM THE CONSTRUCTION AREA.
2. STAKE SHOULD BE INTERTWINED WITH THE OUTER MESH ONLY (ON THE DOWNSTREAM SIDE ONLY) AND PLACED A MINIMUM OF 610 MM (24") INTO GROUND.
3. PROVIDE PERIODIC REMOVAL OF ACCUMULATED DEBRIS AND SEDIMENTS DURING CONSTRUCTION AND PRIOR TO DISMANTLING.

TEMPORARY SEDIMENT LOG

NOT TO SCALE

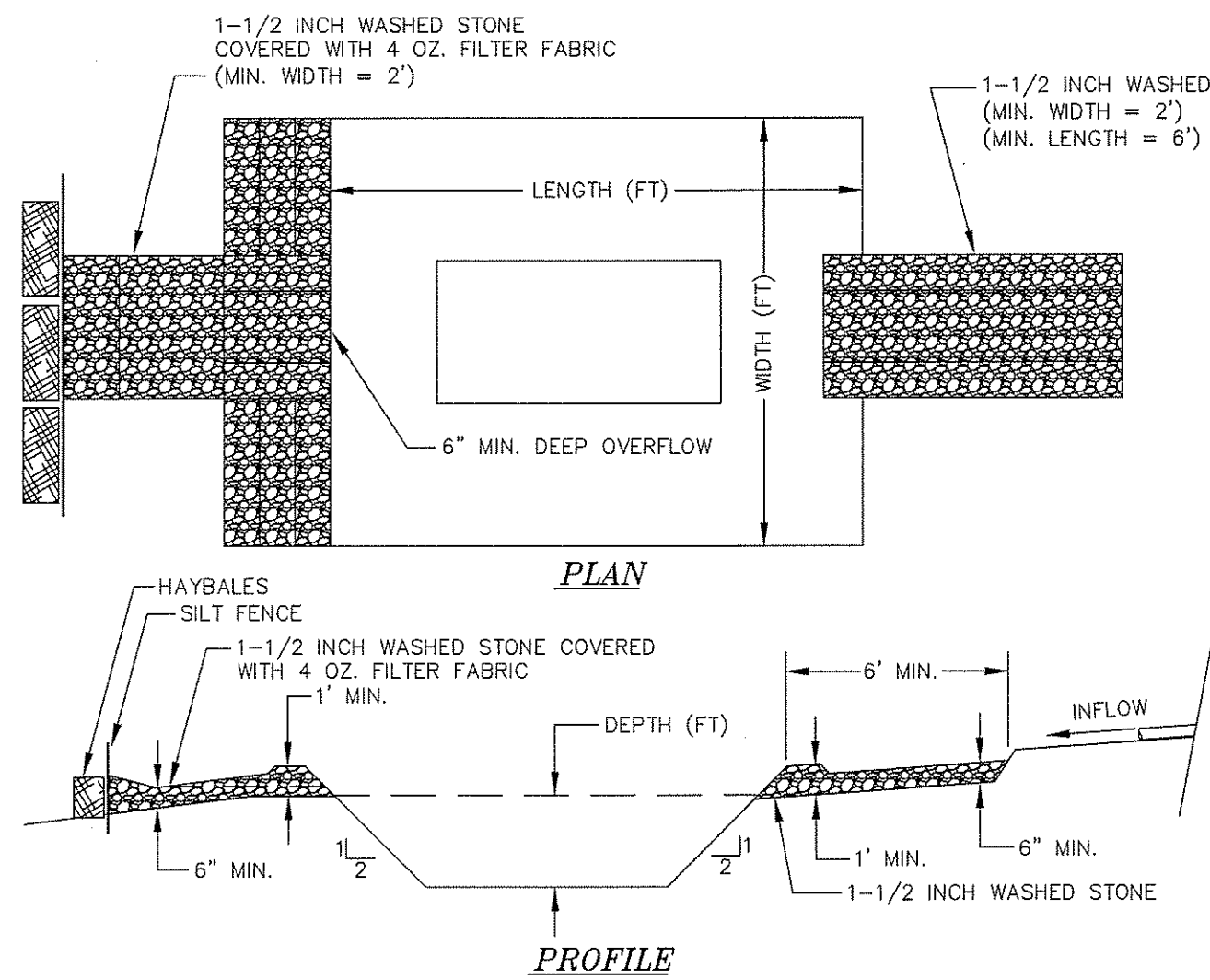


DIRTBAG

NOT TO SCALE

NOTES:

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



PROFILE

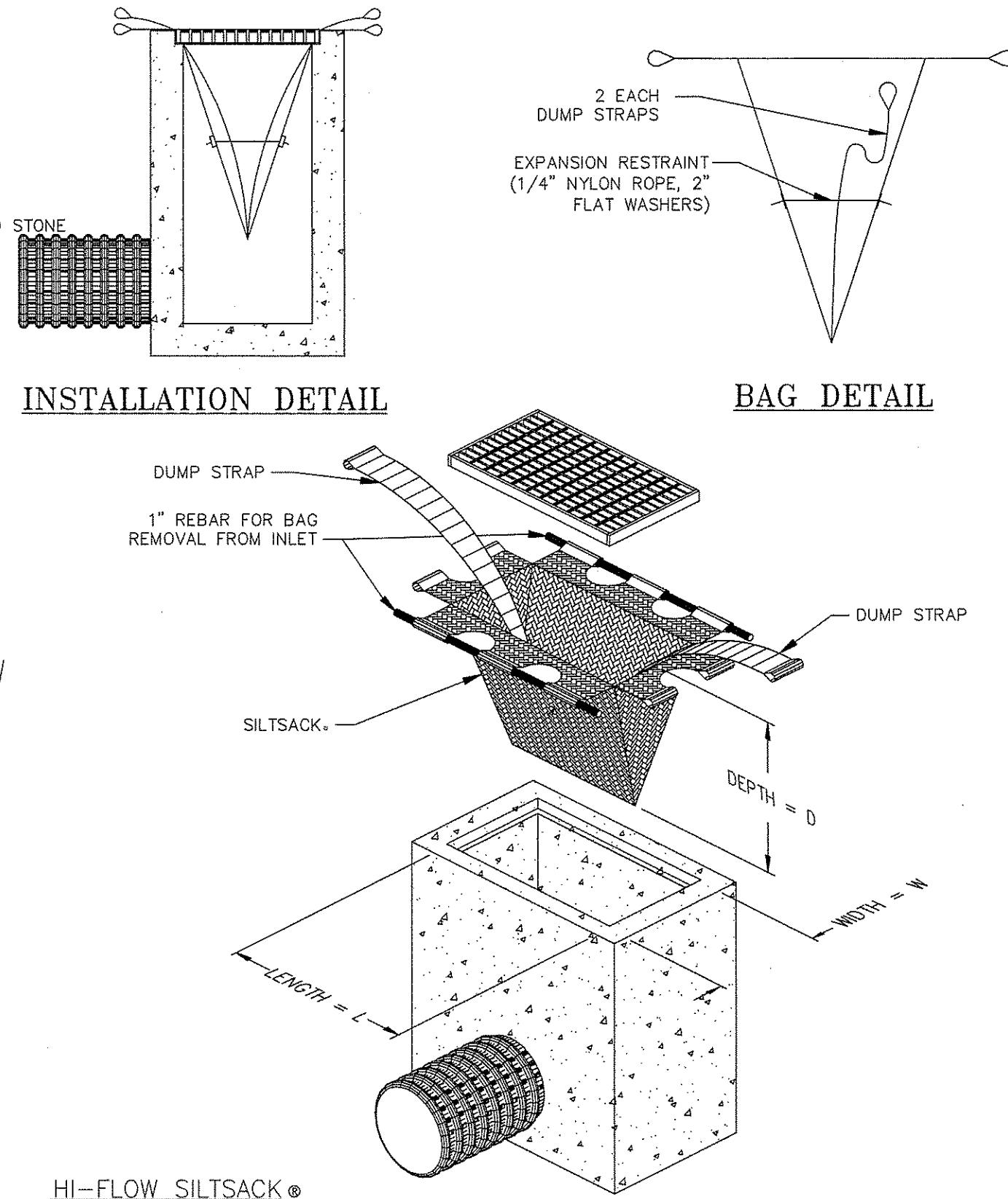
SIZE	PUMP RATE			
	30 GPM	50 GPM	75 GPM	100 GPM
LENGTH (FT)	14	16	22	30
WIDTH (FT)	8	9	11	15
DEPTH (FT)	3	4	5	6

NOTES:

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

TEMPORARY SEDIMENTATION/DEWATERING BASIN

NOT TO SCALE



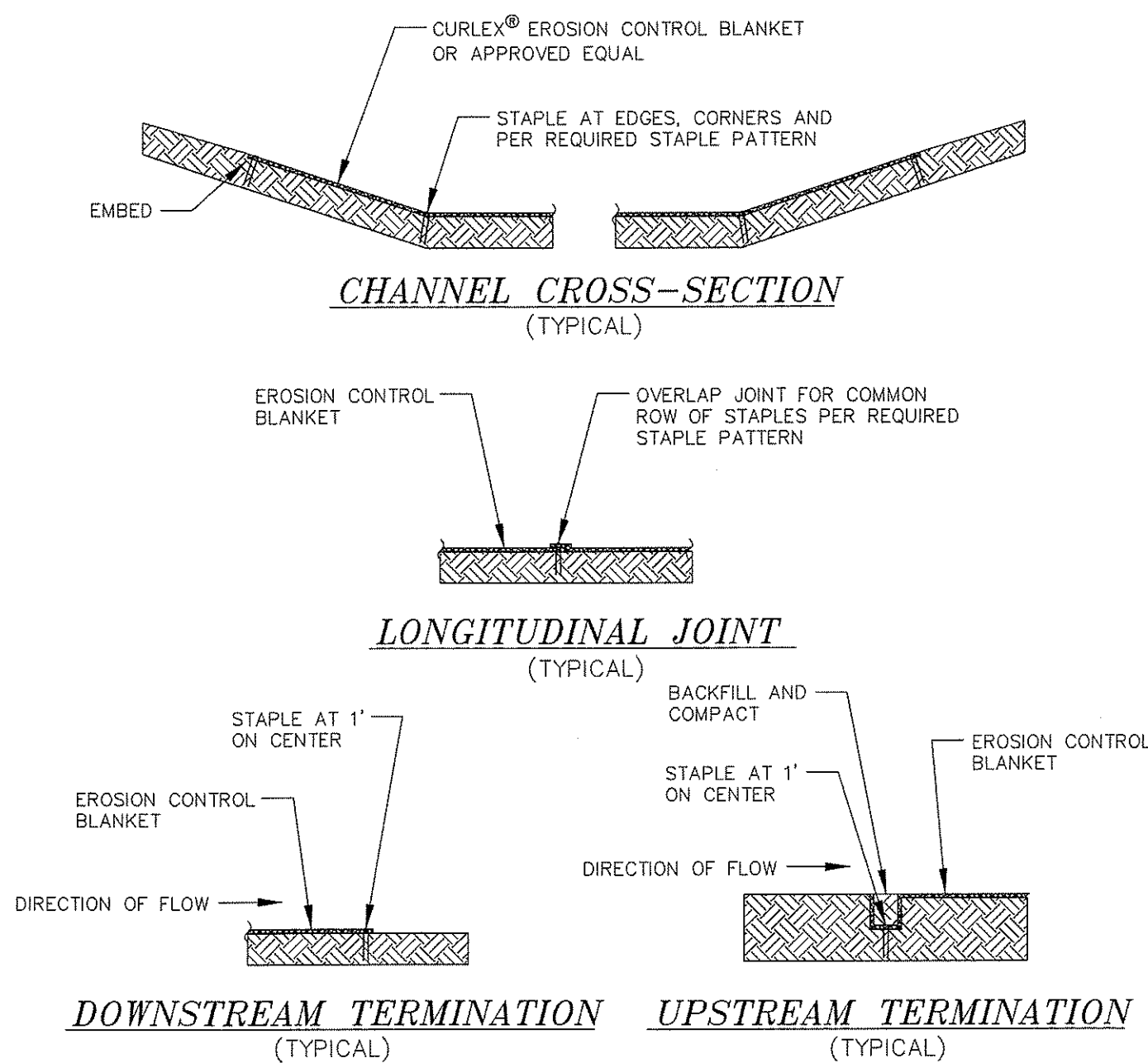
HI-FLOW SILTSACK®
SPECIFICATIONS*

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-4633	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/50 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

NOT TO SCALE



EROSION CONTROL MATTING

NOT TO SCALE

REVISIONS		
#	DATE	DESCRIPTION
1	03/28/2023	AOT SUBMITTAL
2	05/09/2023	RESPONSE TO COMMENTS
3	06/30/2023	CONSTRUCTION DOCUMENTS
4	07/10/2023	RESPONSE TO COMMENTS
5	08/02/2023	ADDENDUM #2

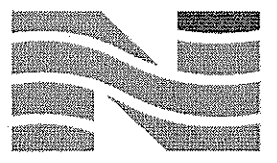
ST. PAUL'S SCHOOL
ADMISSION CENTER



St. Paul's School
325 PLEASANT STREET
CONCORD, NH 03301
TAX MAP 723Z / BLOCK 13 / LOT 1

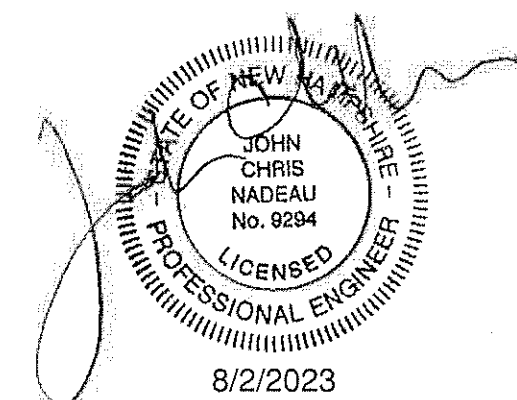
OWNER/APPLICANT:
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CONCORD, NEW HAMPSHIRE

cbt 617 262 4354 cbtarchitects.com
110 canal street boston, ma 02114



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CONSTRUCTION
DOCUMENTS

SCALE:
AS NOTED

DATE:	MARCH 15, 2023
NOBIS PROJECT NO.	100564.010
DRAWN BY:	MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100564.000-C-700-DETAILS.dwg

CONSTRUCTION
DETAILS

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

C-7.4

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- 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 450 LBS/FT³. 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.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

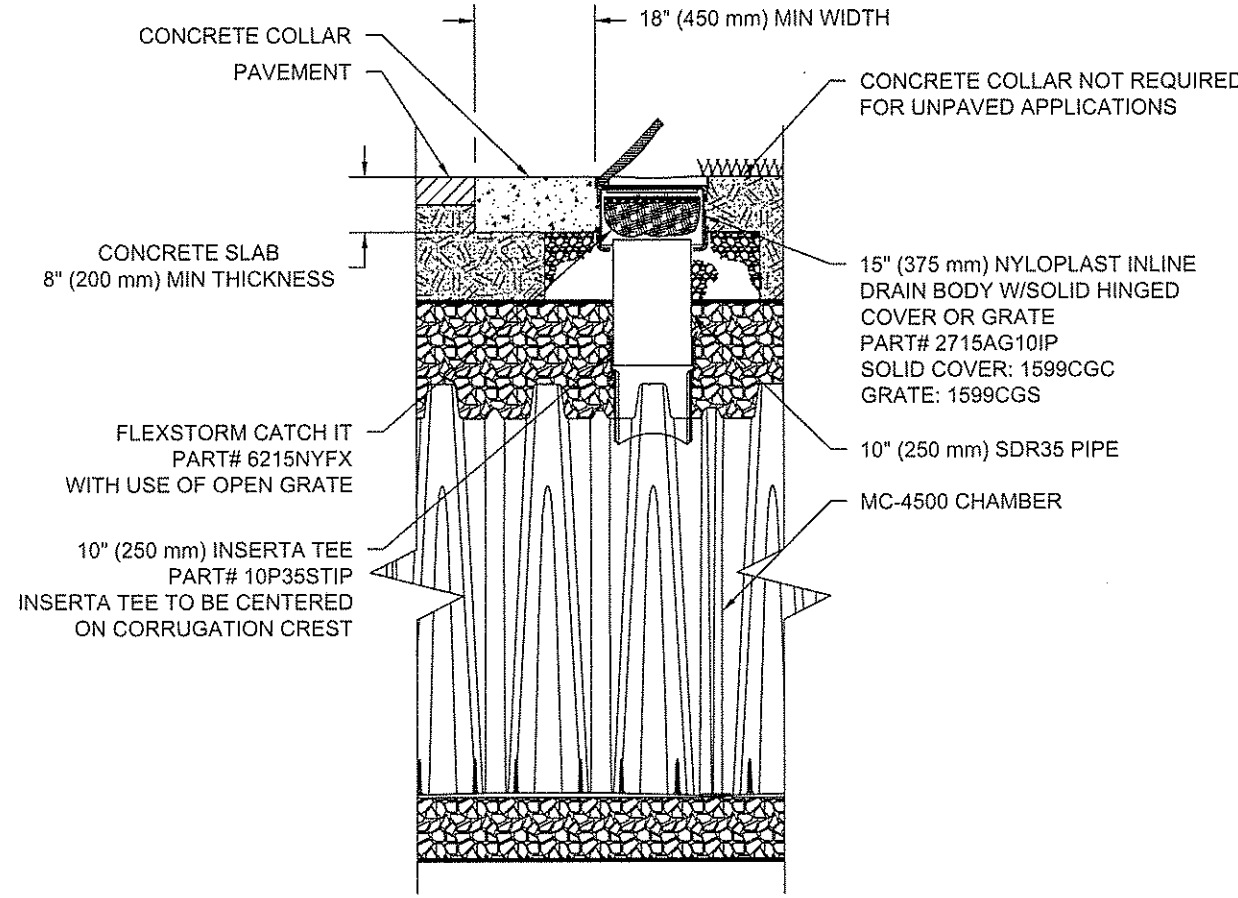
- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

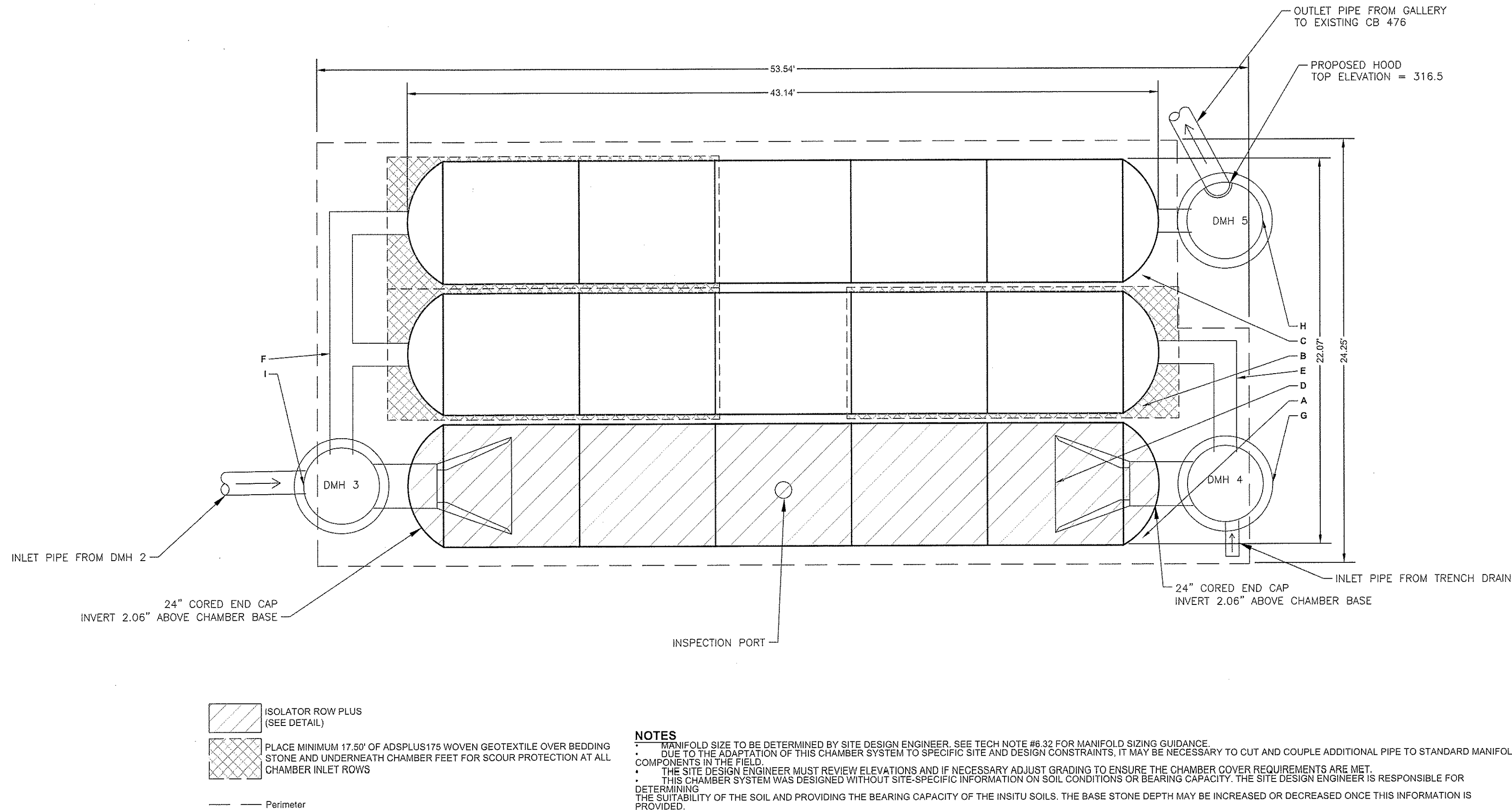
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRE LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



MC-4500 10" INSPECTION PORT DETAIL
NTS



- NOTES**
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
 - DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
 - THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
 - THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE IN-SITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
 - NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

PROPOSED LAYOUT			PROPOSED ELEVATIONS			PART TYPE			ITEM ON LAYOUT	DESCRIPTION			*INVERT ABOVE BASE OF CHAMBER	
													INVERT	MAX FLOW
15	STORMTECH MC-3500 CHAMBERS		MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	325.0										
8	STORMTECH MC-3500 END CAPS		MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	318.5					A	24\"			2.06'	
12	STONE ABOVE INLET		MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	318.5					B	12\"			26.36'	
9	STONE BELOW (IN)		MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	318.5					C	12\"			1.35'	
40	STONE VOID		MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	318.5					D	12\"			26.36'	
	INSTALLED SYSTEM VOLUME (CF)			317.0					E	12\"			26.36'	
	TOP OF MC-3500 CHAMBER			317.0					F	12\"			26.36'	
	12\" x 12\" TOP MANIFOLD INVERT:			315.25					G	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)			2.5 CFS IN	
	BASE STONE INCLUDED:			315.40					H	CONCRETE STRUCTURE			2.0 CFS OUT	
1066	SYSTEM AREA (SF)			313.40					I	CONCRETE STRUCTURE			5.0 CFS IN	
142.7	SYSTEM PERIMETER (IN)			313.36										
	24\" ISOLATOR ROW PLUS INVERT:			313.26										
	24\" ISOLATOR ROW PLUS INVERT:			313.26										
	12\" BOTTOM CONNECTION INVERT:			312.5										
	BOTTOM OF MC-3500 CHAMBER:													
	BOTTOM OF STONE:													

RECEIVED

AUG 08 2023

Planning Division
Concord, NH

REVISIONS		
#	DATE	DESCRIPTION
1	03/28/2023	AOT SUBMITTAL
2	05/09/2023	RESPONSE TO COMMENTS
3	06/30/2023	CONSTRUCTION DOCUMENTS
4	07/10/2023	RESPONSE TO COMMENTS
5	08/02/2023	ADDENDUM #2

ST. PAUL'S SCHOOL
ADMISSION CENTER



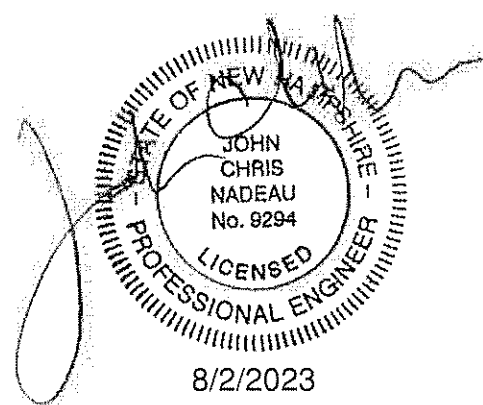
St. Paul's School
325 PLEASANT STREET
CONCORD, NH 03301
TAX MAP 723Z / BLOCK 13 / LOT 1

OWNER/APPLICANT:
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110 canal street boston, ma 02114



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CONSTRUCTION
DOCUMENTS

SCALE:
AS NOTED

DATE:	MARCH 15, 2023
NOBIS PROJECT NO.	100564.010
DRAWN BY:	MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100564.000-C-700-DETAILS.dwg

CONSTRUCTION
DETAILS

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

C-7.5

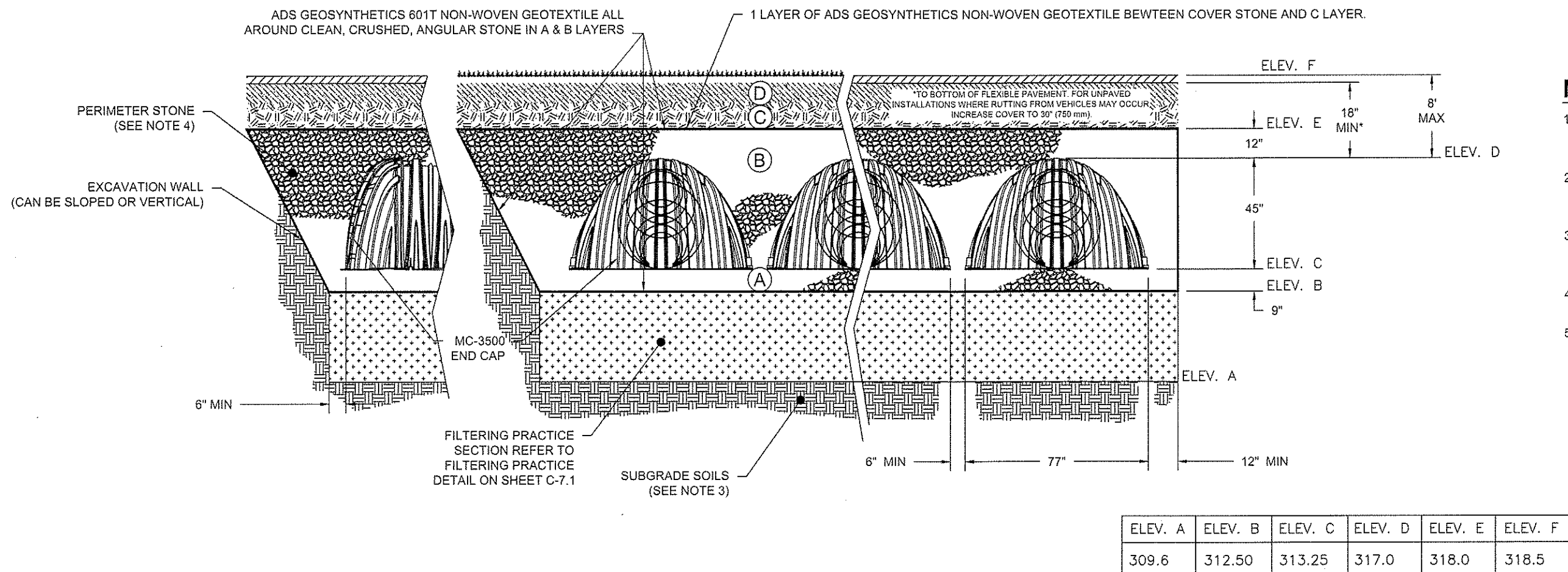
4376-20

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
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. AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 487, 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 AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

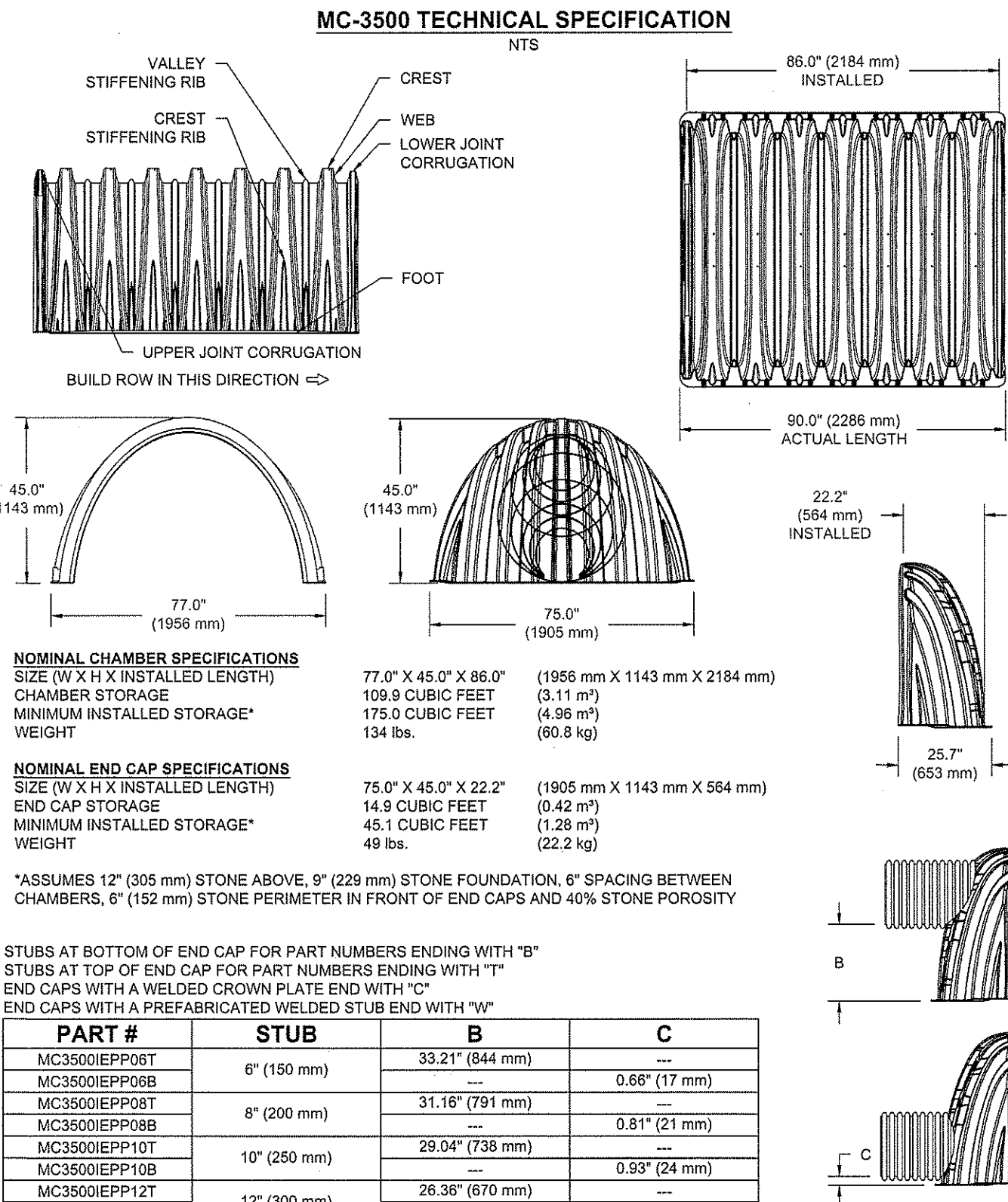
PLEASE NOTE:

- 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".
- 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.
- 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.
- 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.



NOTES:

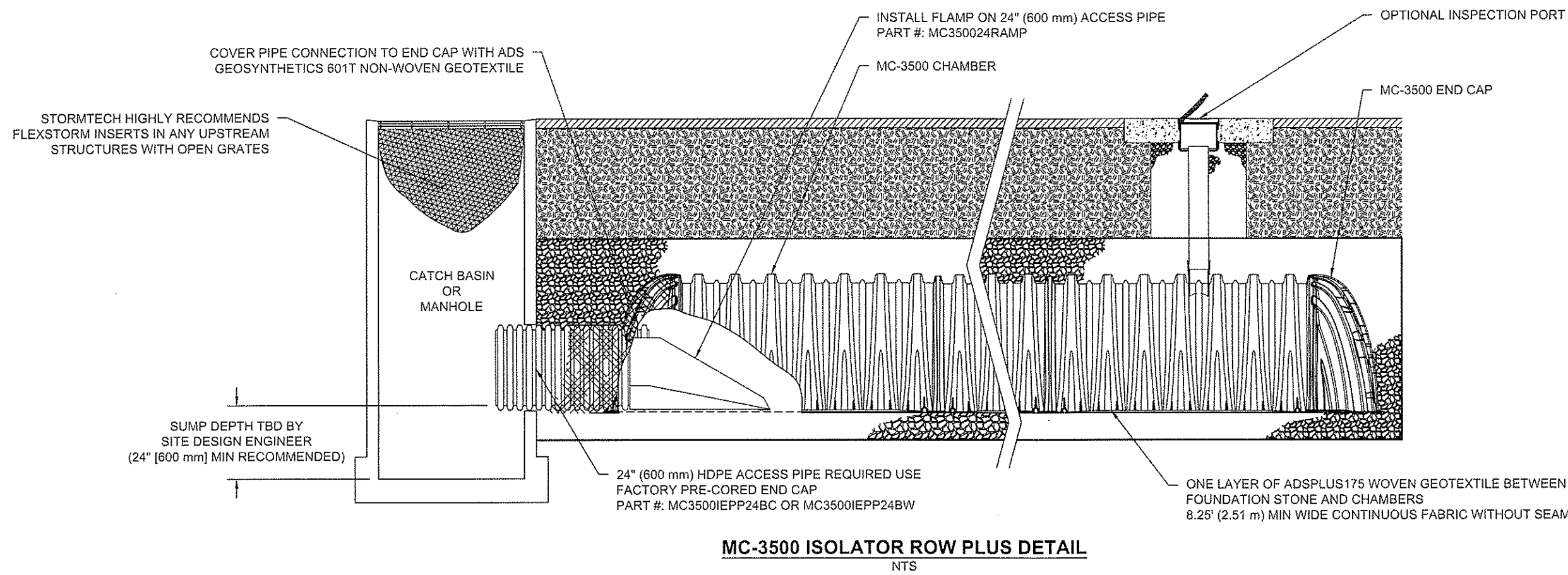
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN 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.
- 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 450 LBS/FT². THE ASG 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.



PART #	STUB	B	C
MC3500IEPP08T	6" (150 mm)	33.21" (844 mm)	0.66" (17 mm)
MC3500IEPP08B	8" (200 mm)	31.16" (791 mm)	0.81" (21 mm)
MC3500IEPP08T	10" (250 mm)	29.04" (738 mm)	0.93" (24 mm)
MC3500IEPP10T	12" (300 mm)	26.36" (670 mm)	1.35" (34 mm)
MC3500IEPP10B	15" (375 mm)	23.39" (594 mm)	1.50" (38 mm)
MC3500IEPP12T	18" (450 mm)	20.02" (509 mm)	1.77" (45 mm)
MC3500IEPP12B	24" (600 mm)	14.48" (368 mm)	2.06" (52 mm)
MC3500IEPP14T	30" (750 mm)	---	2.75" (70 mm)
MC3500IEPP14B	---	---	---
MC3500IEPP18T	---	---	---
MC3500IEPP18B	---	---	---
MC3500IEPP24T	---	---	---
MC3500IEPP24B	---	---	---
MC3500IEPP24W	---	---	---
MC3500IEPP24B	---	---	---
MC3500IEPP24B	---	---	---
MC3500IEPP30B	---	---	---

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PRECURED INVERTS ARE AVAILABLE UPON REQUEST. INVERTORIES MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.



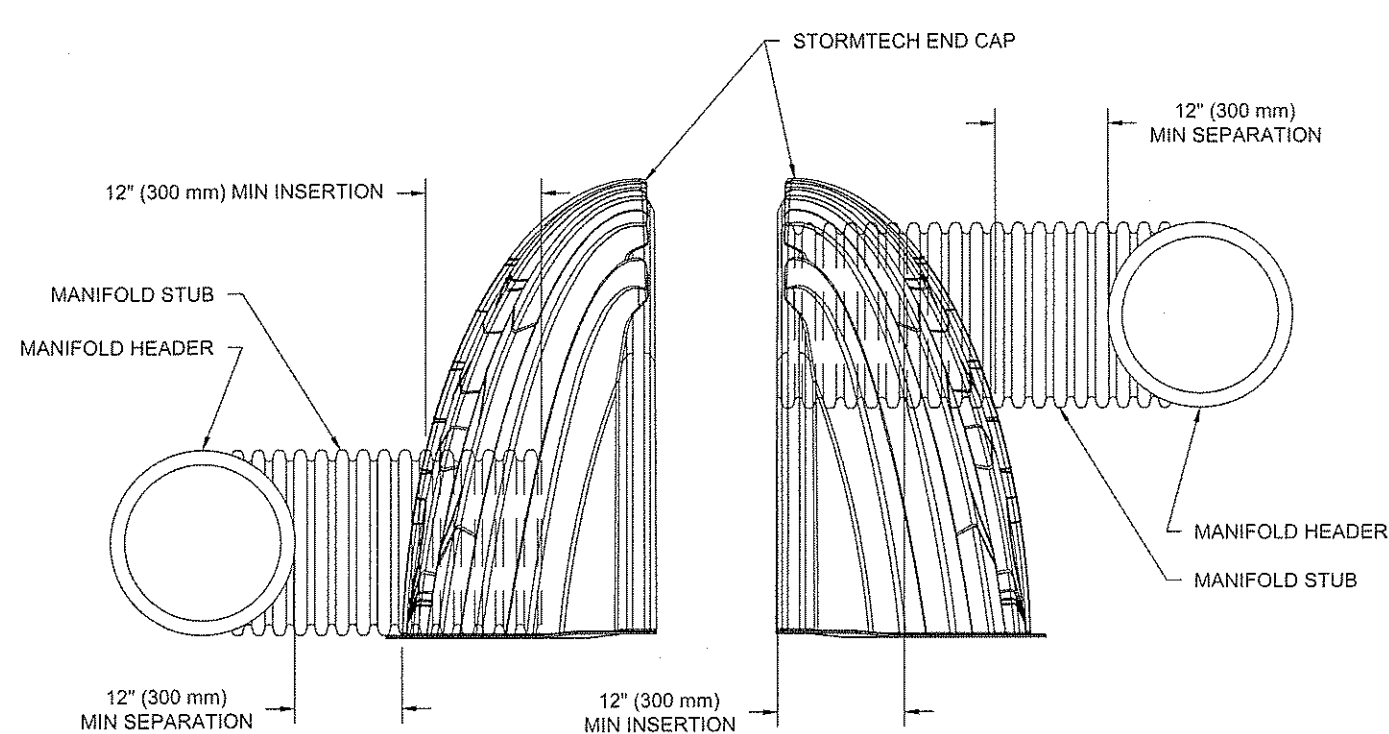
INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS OR POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

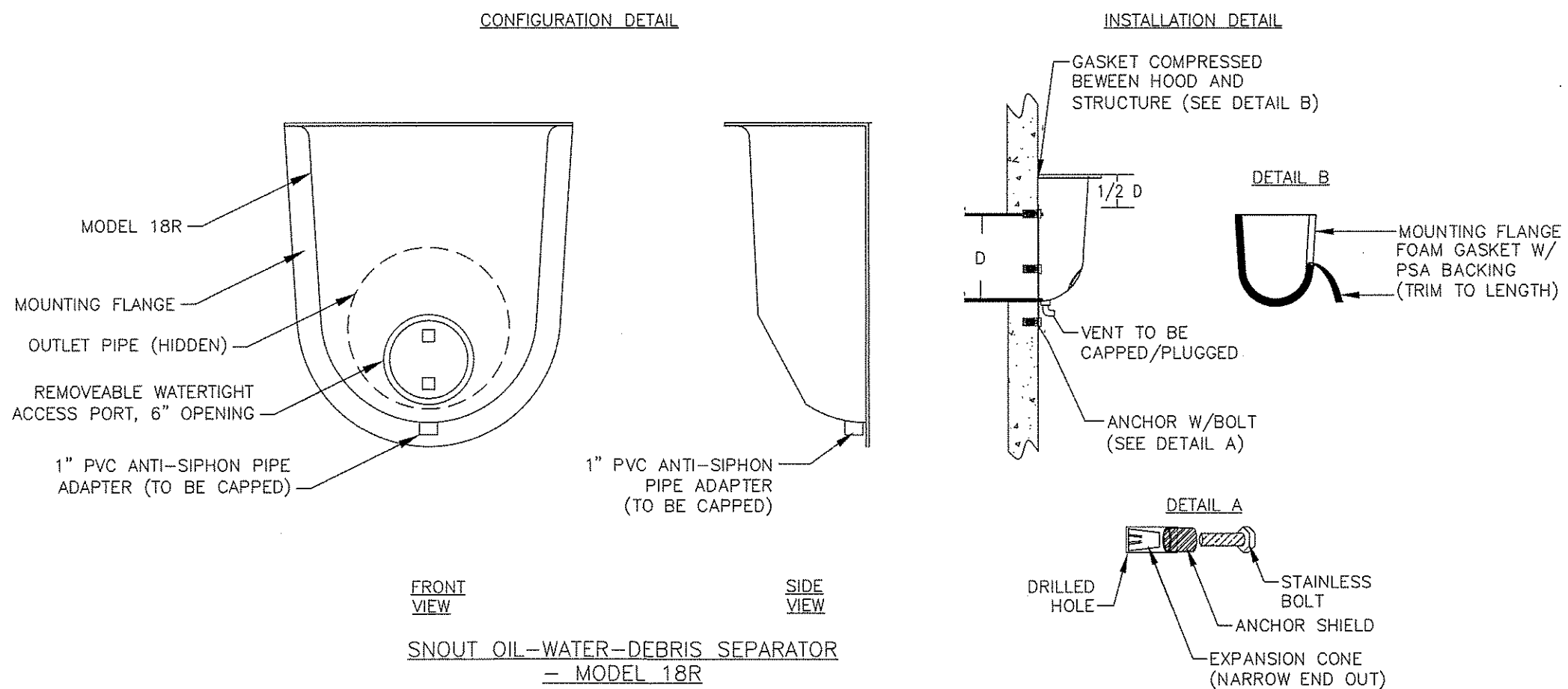
NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION, ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

MC-SERIES END CAP INSERTION DETAIL



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.



NOTES:

- ALL HOODS AND TRAPS (USED AS A WEIR IN THIS APPLICATION) FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC. 53 MT. ARCHER RD. LYME, CT 06371 (860) 434-0277, (860) 434-3195 FAX (860) 434-0277, (860) 504-8008 OR (860) 434-0277 TOLL FREE: (800) 504-8008 OR (860) 434-0277 WEB SITE: www.bmpinc.com OR PRE-APPROVED EQUAL.
- ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
- ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT PIPE AND ELBOW AS DRAWN. (SEE CONFIGURATION DETAIL).
- THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION (SNOUT SIZE ALWAYS LARGER THAN PIPE SIZE).
- THE ANTI-SIPHON VENT SHALL BE PLUGGED OR CAPPED.
- THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL AND PIPE SHALL BE FINISHED FLUSH TO WALL.
- THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL).
- INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT, INSTALLATION KIT SHALL INCLUDE:
 - INSTALLATION INSTRUCTIONS
 - PVC ANTI-SIPHON VENT PIPE AND ADAPTER
 - OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
 - 3/8" STAINLESS STEEL BOLTS
 - ANCHOR SHIELDS

WEIR SPECIFICATION FOR CATCH BASINS

NOT TO SCALE

REVISIONS	DATE	DESCRIPTION
#	03/28/2023	AOT SUBMITTAL
1	05/09/2023	RESPONSE TO COMMENTS
2	06/30/2023	CONSTRUCTION DOCUMENTS
3	07/10/2023	RESPONSE TO COMMENTS
4	08/02/2023	ADDENDUM #2

ST. PAUL'S SCHOOL ADMISSION CENTER



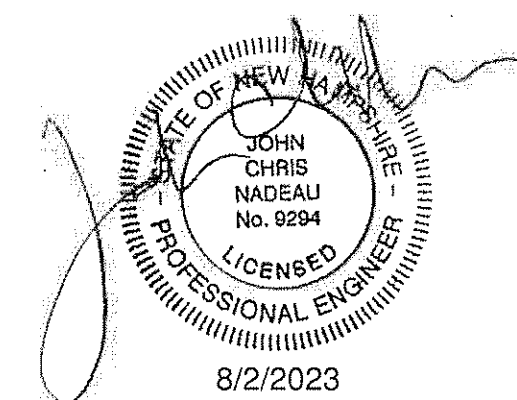
St. Paul's School
325 PLEASANT STREET
CONCORD, NH 03301
TAX MAP 723Z / BLOCK 13 / LOT 1

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

cbt 617 262 4354 cbtarchitects.com
110 canal street boston, ma 02114



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CONSTRUCTION DOCUMENTS

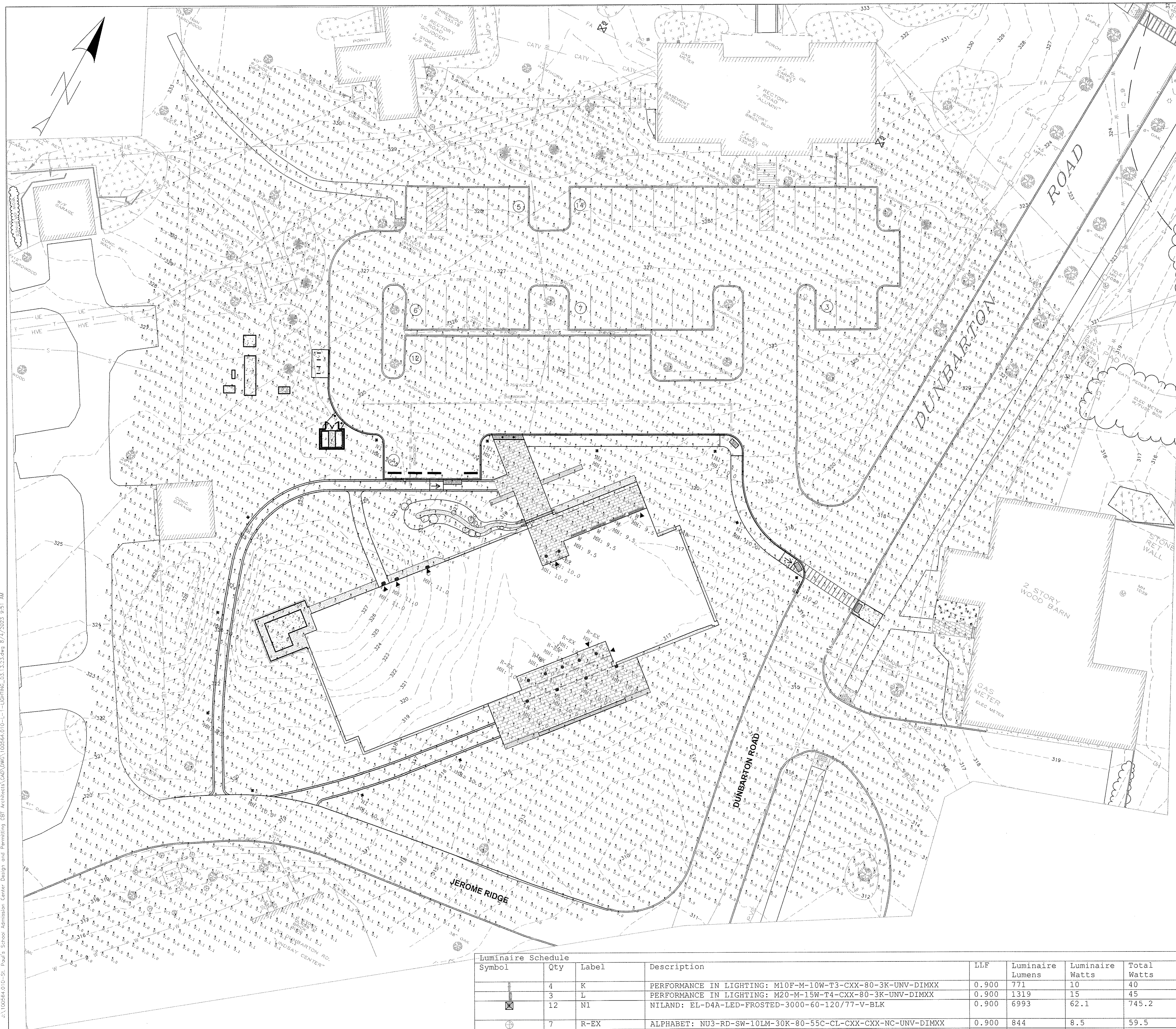
SCALE:
AS NOTED

DATE:	MARCH 15, 2023
NOBIS PROJECT NO.	100564.010
DRAWN BY:	MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	100564.000-C-700-DETAILS.dwg

CONSTRUCTION DETAILS

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

C-7.6



REVISIONS		
#	DATE	DESCRIPTION
1	03/28/2023	AOT SUBMITTAL
2	05/09/2023	RESPONSE TO COMMENTS
3	06/30/2023	CONSTRUCTION DOCUMENTS
4	07/11/2023	RESPONSE TO COMMENTS
5	08/02/2023	ADDENDUM #2



ST. PAUL'S SCHOOL
325 PLEASANT STREET
CONCORD, NH 03301
TAX MAP 723Z / BLOCK 13 / LOT 1

cbt 617 262 4354 cbtarchitects.com
110 canal street boston, ma 02114

Designer: Michael O'Brien
Charron Inc. -Reflex Lighting
40 Londonderry Turnpike #1
Hooksett, NH 03106

Date: 6/26/2023

AUG 08 2023

Planning Division
Concord, NH

CONSTRUCTION DOCUMENTS

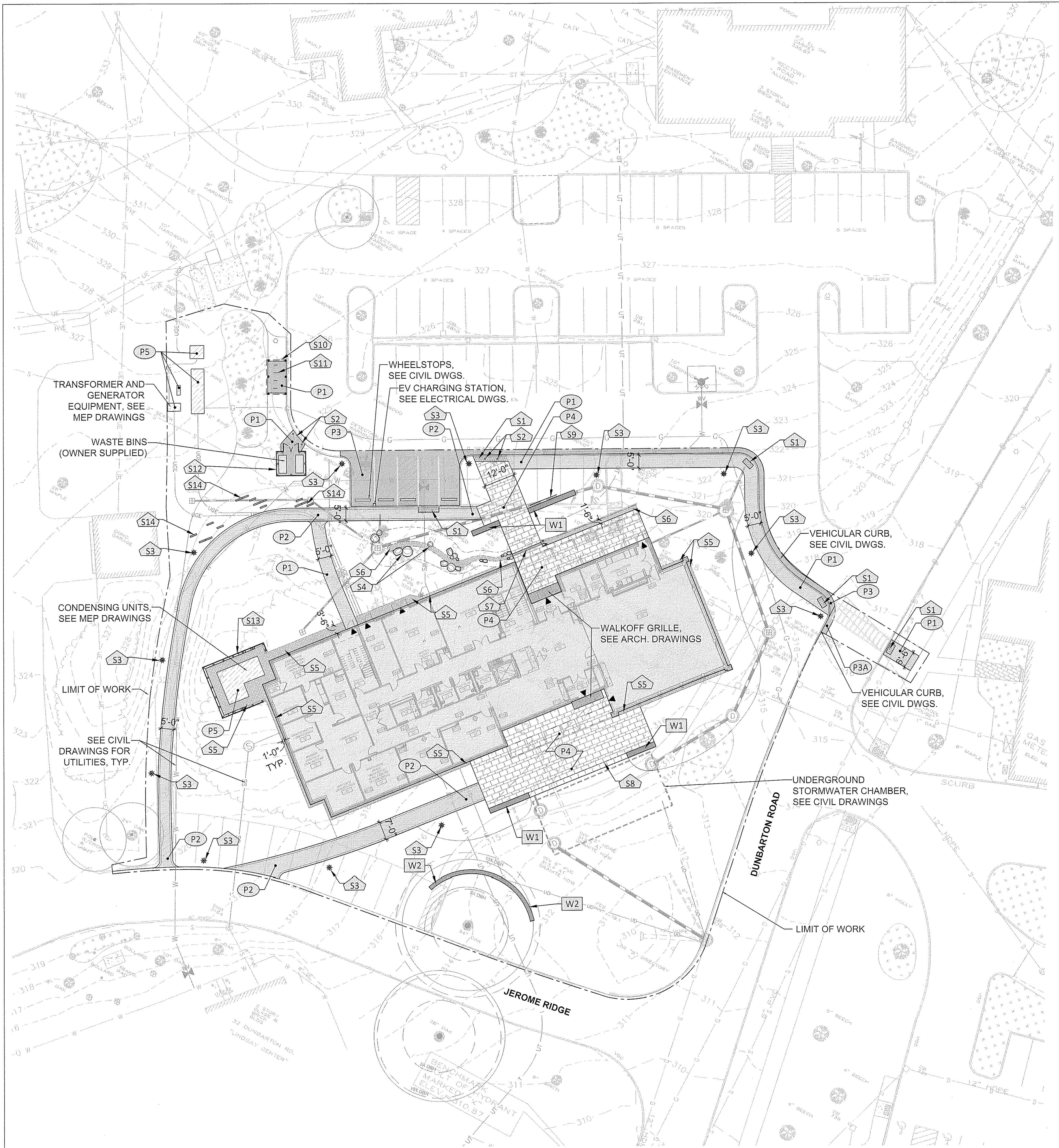


DATE:	MARCH 15, 2023
NOBIS PROJECT NO.	100564.010
DRAWN BY:	MGD
CHECKED BY:	JCN
CAD DRAWING FILE:	
100564.010-L-1-LIGHTING 03.13.23.dwg	

SCALE	PROJECT #	DATE ISSUED
AS NOTED	229008.00	06/30/2023

L-1.0

4376-22



MATERIALS LEGEND

LIMIT OF WORK		
PAVING MATERIALS		
P1	ASPHALT PAVEMENT - PEDESTRIAN	1 L5-1
P2	ASPHALT PAVEMENT WITH BRICK BORDER	2 L5-1
P3	POROUS ASPHALT PAVEMENT - VEHICULAR, SEE CIVIL DWGS.	
P3A	STANDARD ASPHALT PAVEMENT - VEHICULAR, SEE CIVIL DWGS.	
P4	GRANITE PAVEMENT	3 6 7 L5-1 L5-1 L5-1
P5	CONCRETE UTILITY PAD	4 L5-1
WALLS		
W1	STONE WALL - FREESTANDING	1 L5-2
W2	ADD ALTERNATE STONE TREE WELL	2 L5-2
SITE IMPROVEMENTS		
S1	DETECTABLE WARNING PAVERS	1 L5-3
S2	BOLLARD	7 L5-3
S3	LIGHT POLE FOOTING	6 L5-3
S4	LANDSCAPE BOULDER	4 L5-3
S5	MAINTENANCE STRIP	5 L5-3
S6	RIVER STONE CHANNEL	3 L5-6
S7	TRENCH DRAIN - NORTH TERRACE	3 L5-3
S8	SLOT DRAIN - SOUTH TERRACE	2 L5-3
S9	NORTH ENTRY SIGN, SEE SIGNAGE DRAWINGS	
S10	ADD ALTERNATE BICYCLE SHELTER	9 L5-3
S11	BICYCLE RACK	8 L5-3
S12	WASTE BIN ENCLOSURE	1 2 3 4 L5-4 L5-4 L5-4 L5-4
S13	MECHANICAL ENCLOSURE	2 3 6 6 1 L5-4 L5-4 L5-4 L5-4 L5-5
S14	RECLAIMED GRANITE WINDOWSILLS	10 L5-3

- NOTES:
- REFER TO SHEET L5-1 FOR GRANITE PAVING PLAN ENLARGEMENTS
 - REFER TO SHEET L5-6 FOR RAIN GARDEN ENLARGEMENT PLAN AND DETAILS

REVISIONS		
#	DATE	DESCRIPTION

FLEISCHNER FAMILY
ADMISSION CENTER

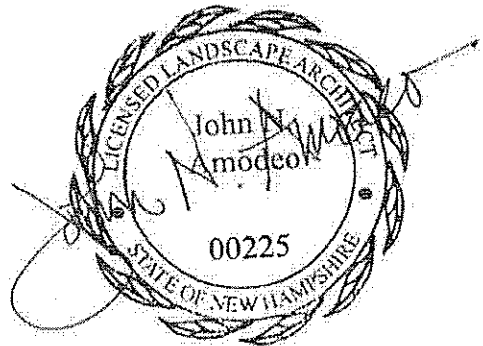


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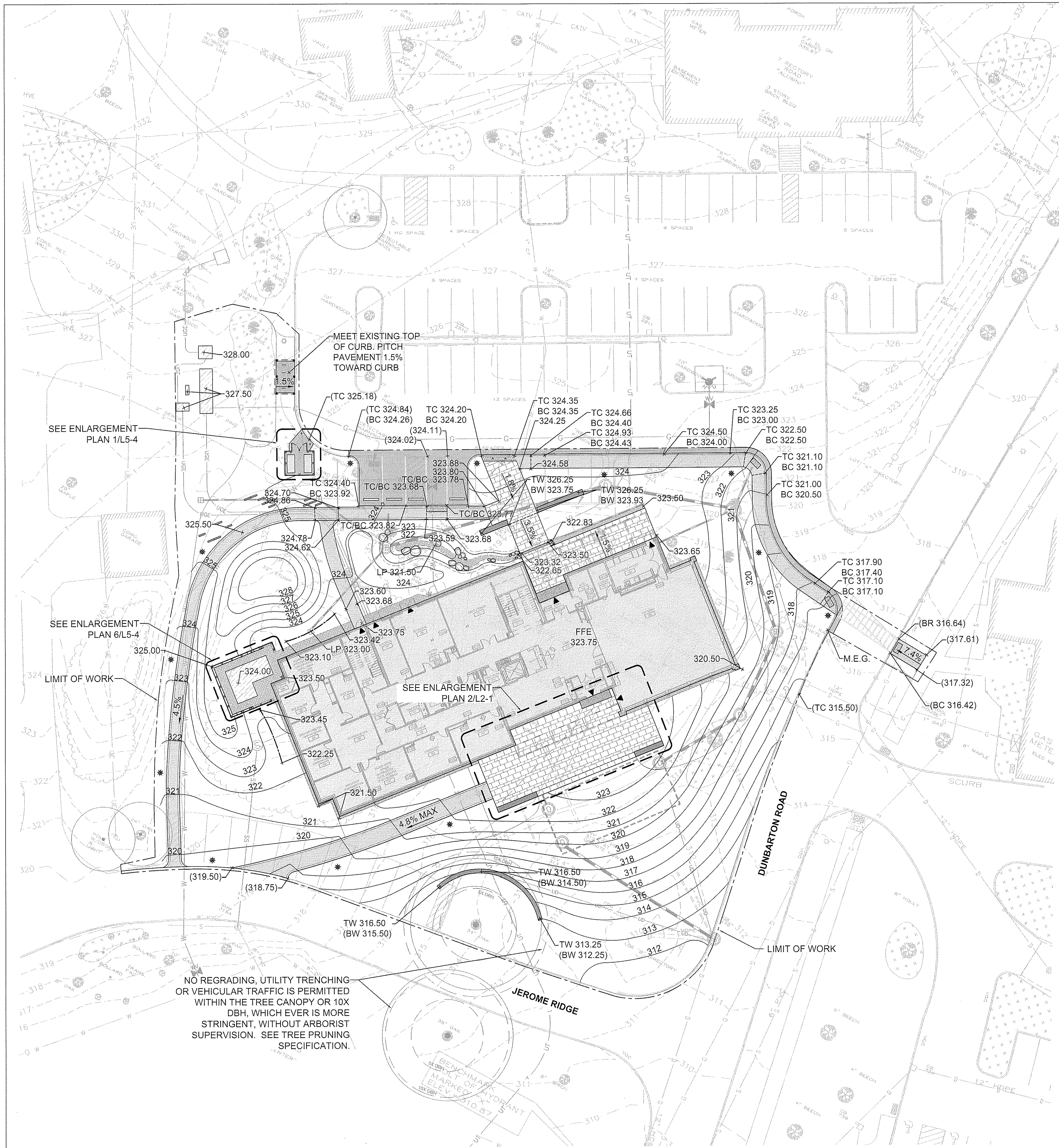
CONSTRUCTION
DOCUMENTS



LANDSCAPE
MATERIALS PLAN

SCALE 1" = 20'-0"
PROJECT # 229008.00
DATE ISSUED 06/30/2023

L1-1



GRADING LEGEND

- LIMIT OF WORK
- GRADING
- XX EXISTING CONTOUR
 - XX PROPOSED CONTOUR
 - SWALE CENTERLINE
 - (XX.XX) EXISTING SPOT ELEVATION
 - XX.XX PROPOSED SPOT ELEVATION
 - TC TOP OF CURB
 - BC BOTTOM OF CURB
 - TW TOP OF WALL
 - BW BOTTOM OF WALL
 - LP LOW POINT
 - HP HIGH POINT
 - M.E.G. MEET EXISTING GRADE
 - RIM UTILITY COVER RIM ELEVATION, SEE CIVIL DWGS.

REVISIONS		
#	DATE	DESCRIPTION

FLEISCHNER FAMILY
ADMISSION CENTER



St. PAUL'S SCHOOL

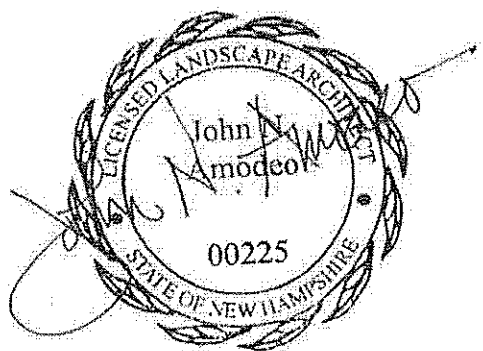
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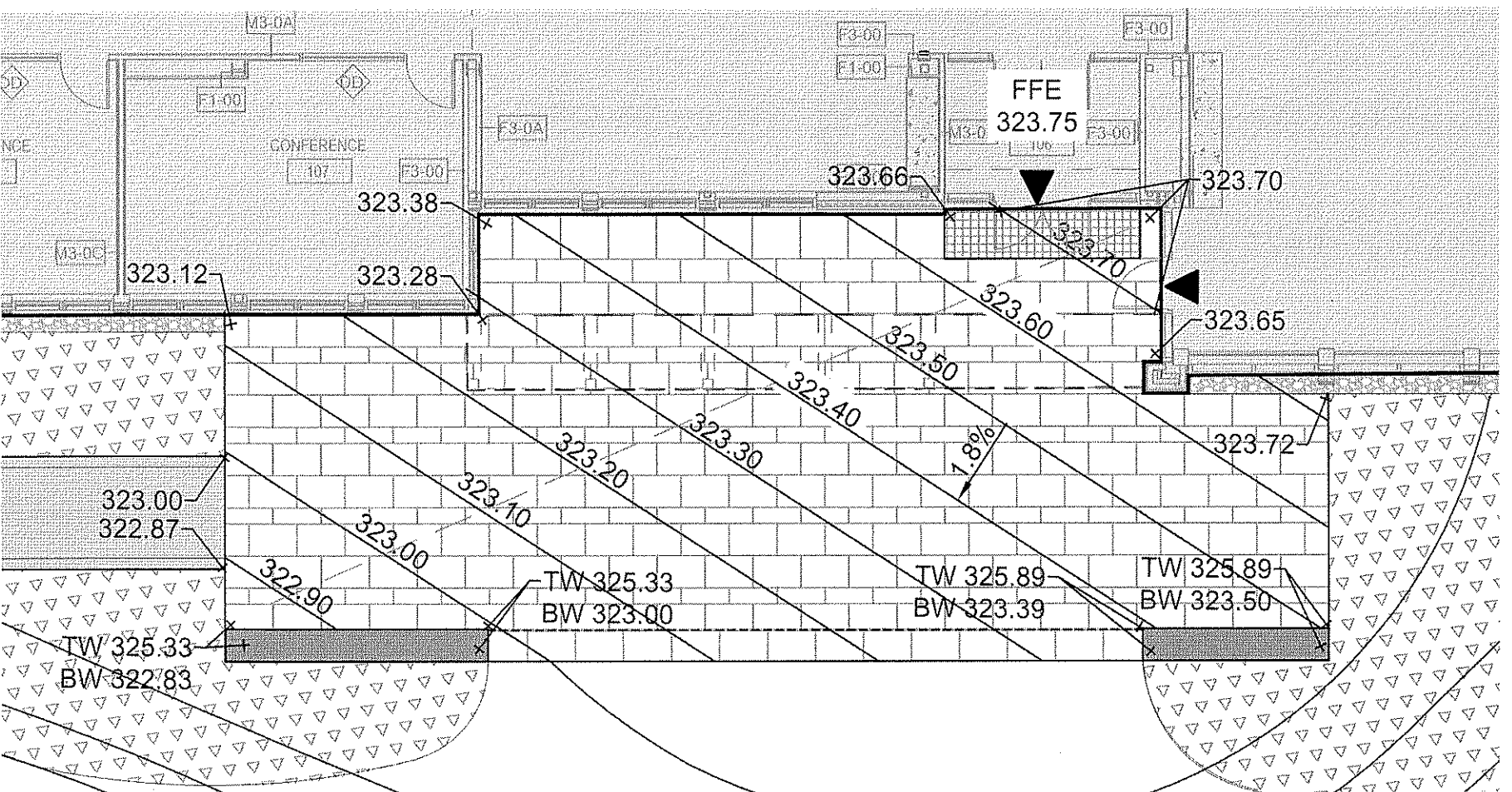
CONSTRUCTION
DOCUMENTS



LANDSCAPE
GRADING PLAN

SCALE 1" = 20'-0" PROJECT # 229008.00 DATE ISSUED 06/30/2023

L2-1



2 SOUTH TERRACE GRADING ENLARGEMENT

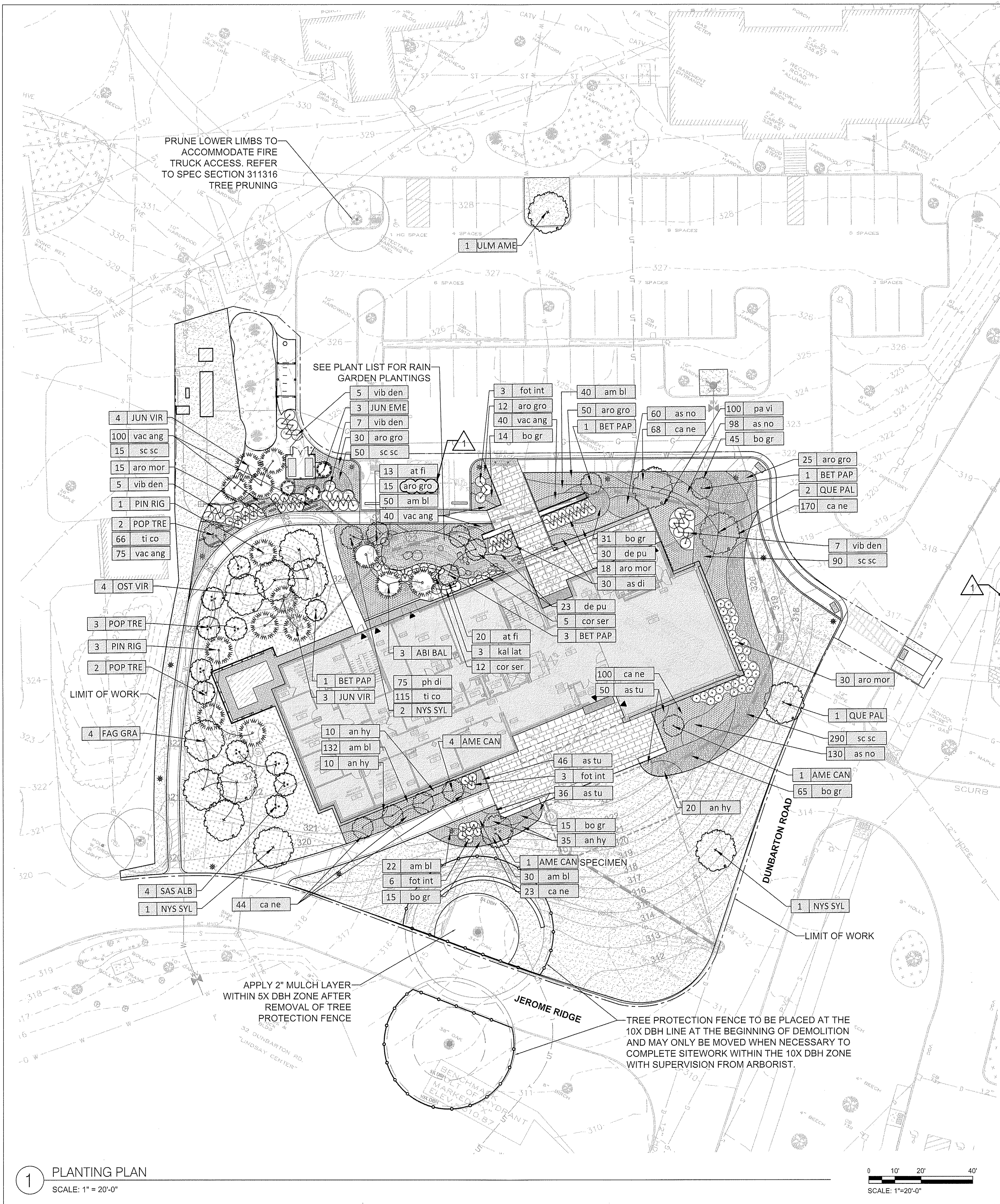
SCALE: 1" = 10'-0"

SCALE: 1" = 10'-0"

1 SITE GRADING PLAN

SCALE: 1" = 20'-0"

4376-24



PLANTING LEGEND

--- LIMIT OF WORK

PLANTING

	EXISTING TREE		GROUNDCOVER/PERENNIAL		SEEDED LAWN - TURF, SEE SPECS FOR SEED MIX
	TREE PROTECTION FENCE		SEEDED CONSERVATION MIX, SEE SPECS FOR SEED MIX		RAIN GARDEN PLANTINGS, SEE PLANT LIST FOR SPECIES
	DECIDUOUS CANOPY TREE				
	ORNAMENTAL TREE				
	EVERGREEN TREE				
	SHRUB				

PLANT LIST

DECIDUOUS SHADE TREES						
QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES/ SPACING
4	FAG GRA	<i>Fagus grandifolia</i>	American Beech	3" cal.	B & B	
4	NYS SYL	<i>Nyssa sylvatica</i> 'Forest Fire'	Black Gum	3" cal.	B & B	
4	OST VIR	<i>Ostrya virginiana</i>	Eastern Hop Hornbeam	3" cal.	B & B	
3	QUE PAL	<i>Quercus palustris</i>	Pin Oak	4" cal.	B & B	
1	ULM AME	<i>Ulmus americana</i> 'Princeton'	Princeton Elm	3" cal.	B & B	

EVERGREEN TREES						
QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES/ SPACING
3	ABI BAL	<i>Abies balsamea</i>	Balsam Fir	10' - 12' ht.	B & B	
7	JUN VIR	<i>Juniperus virginiana</i>	Eastern Red Cedar	12' - 14' ht.	B & B	
3	JUN EME	<i>Juniperus virginiana</i> 'Emerald Sentinel'	Emerald Red Cedar	8' - 10' ht.	B & B	
4	PIN RIG	<i>Pinus rigida</i>	Pitch Pine	8' - 10' ht.	B & B	

DECIDUOUS ORNAMENTAL TREES						
QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES/ SPACING
5	AME CAN	<i>Amelanchier canadensis</i>	Serviceberry	3" cal.	B & B	Singlestem
1	AME CAN	<i>Amelanchier canadensis</i>	Serviceberry (SPECIMEN)	14' HT	B & B	Multistem, specimen
6	BET PAP	<i>Betula papyrifera</i>	Paper Birch	2.5" - 3" cal.	B & B	Single Stem
7	POP TRE	<i>Populus tremuloides</i>	Quaking Aspen	2" cal.	B & B	Multistem
4	SAS ALB	<i>Sassafras albidum</i>	Sassafras	8' - 10' ht.	B & B	Multistem

DECIDUOUS SHRUBS						
QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	HT./SPREAD	CONTAINER	NOTES/ SPACING
132	aro gro	<i>Aronia melanocarpa</i> 'Ground Hug'	Black Chokeberry	12"	#2	2'
65	aro mor	<i>Aronia melanocarpa</i> 'Morton' 'Iroquois Beauty'	Black Chokeberry	3'	#5	4'
17	cor ser	<i>Cornus sericea</i> 'Arctic Fire'	Redtwig Dogwood	24"	#5	3'
12	fot int	<i>Fothergilla intermedia</i> 'Mount Airy'	Mount Airy Fothergilla	3'	#7	4'
24	vib den	<i>Viburnum dentatum</i> 'Blue Muffin'	Arrowwood Viburnum Blue Muffin	4'	#7	5'

EVERGREEN SHRUBS						
QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	HEIGHT	CONTAINER	NOTES/ SPACING
3	kal lat	<i>Kalmia latifolia</i> 'Nipmuck'	Mountain Laurel	24"	#7	4'

GROUNDCOVERS						
QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE		NOTES/ SPACING
255	vac ang	<i>Vaccinium angustifolium</i> 'Claret'	Lowbush Blueberry	#1		12"

PERENNIALS						
QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE		NOTES/ SPACING
276	am bl	<i>Amsonia</i> 'Blue Ice'	Blue Ice Blue Star	#2		18"
75	an hy	<i>Anemone x hybrida</i> 'Honorine Jobert'	Anemone	#2		18"
30	as di	<i>Aster divaricatus</i>	White Woodland Aster	#2		15"
288	as no	<i>Aster novae-angliae</i>	New England Aster	#2		15"
132	as tu	<i>Asclepias tuberosa</i>	Butterfly Milkweed	#2		12"
33	at fi	<i>Athyrium filix-femina</i>	Lady fern	#2		18"
405	ca ne	<i>Calamintha nepeta</i> 'Blue Cloud'	Blue Cloud Calamint	#2		18"
53	de pu	<i>Dennstaedtia punctilobula</i>	Hayscented Fern	#2		24"
75	ph di	<i>Phlox divaricata</i>	Wild Sweet William	#2		24"
181	ti co	<i>Tiarella cordifolia</i>	Eastern Foamflower	#2		18"

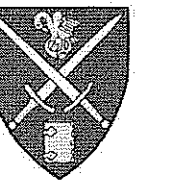
ORNAMENTAL GRASSES						
QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE		NOTES/ SPACING
185	bo gr	<i>Bouteloua gracilis</i> 'Blonde Ambition'	Blue Grama	#2		24"
100	pa vi	<i>Panicum virgatum</i> 'Shenandoah'	Shenandoah Switch Grass	#2		24"
445	sc sc	<i>Schizachyrium scoparium</i> 'The Blues'	Little Bluestem 'The Blues'	#2		18"

RAIN GARDEN						
QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	NOTES
130		<i>Carex pennsylvanica</i>	Sedge	5" plug	12" - 15"	Top/Middle slope of rain garden
70		<i>Carex plantaginea</i>	Seersucker sedge	5" plug	12" - 15"	Top slope of rain garden
45		<i>Carex vulpinoidea</i>	Fox Sedge	5" plug	12" - 15"	Bottom of rain garden
50		<i>Chrysogonum virginianum</i>	Green and Gold	5" plug	12" - 15"	Middle slope of rain garden
50		<i>Coreopsis verticillata</i>	Threadleaf Coreopsis	5" plug	12" - 15"	Middle slope of rain garden
30		<i>Iris versicolor</i>	Iris	5" plug	12" - 15"	Bottom of rain garden
45		<i>Juncus effusus</i>	Soft Rush	5" plug	12" - 15"	Bottom of rain garden
40		<i>Liatris spicata</i>	Blazing Star	5" plug	12" - 15"	Top/Middle of rain garden

REVISIONS

#	DATE	DESCRIPTION
1	08/04/2023	ADDENDUM 2

FLEISCHNER FAMILY ADMISSION CENTER



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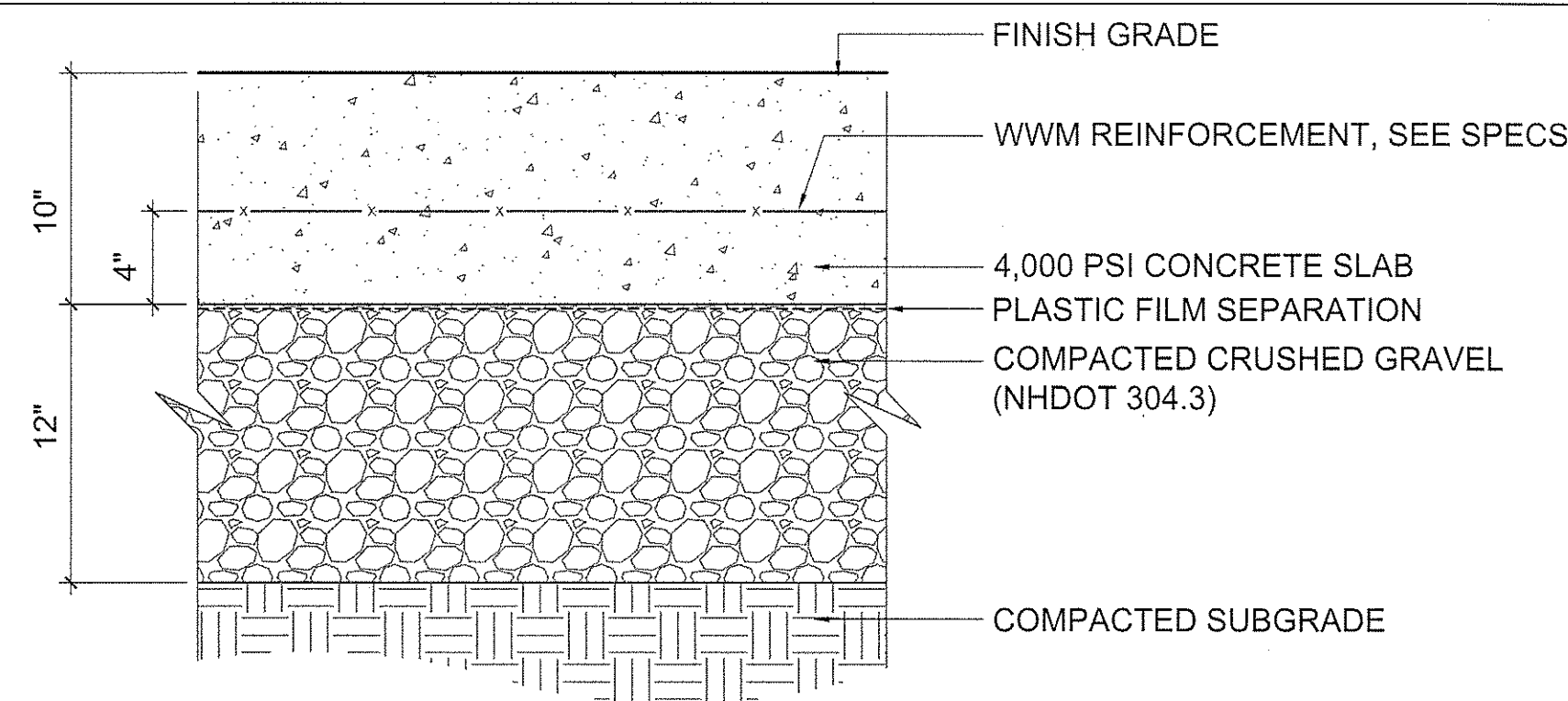
CONSTRUCTION DOCUMENTS



PLANTING PLAN

SCALE 1" = 20'-0" PROJECT # 229008.00 DATE ISSUED 06/30/2023

L3-1

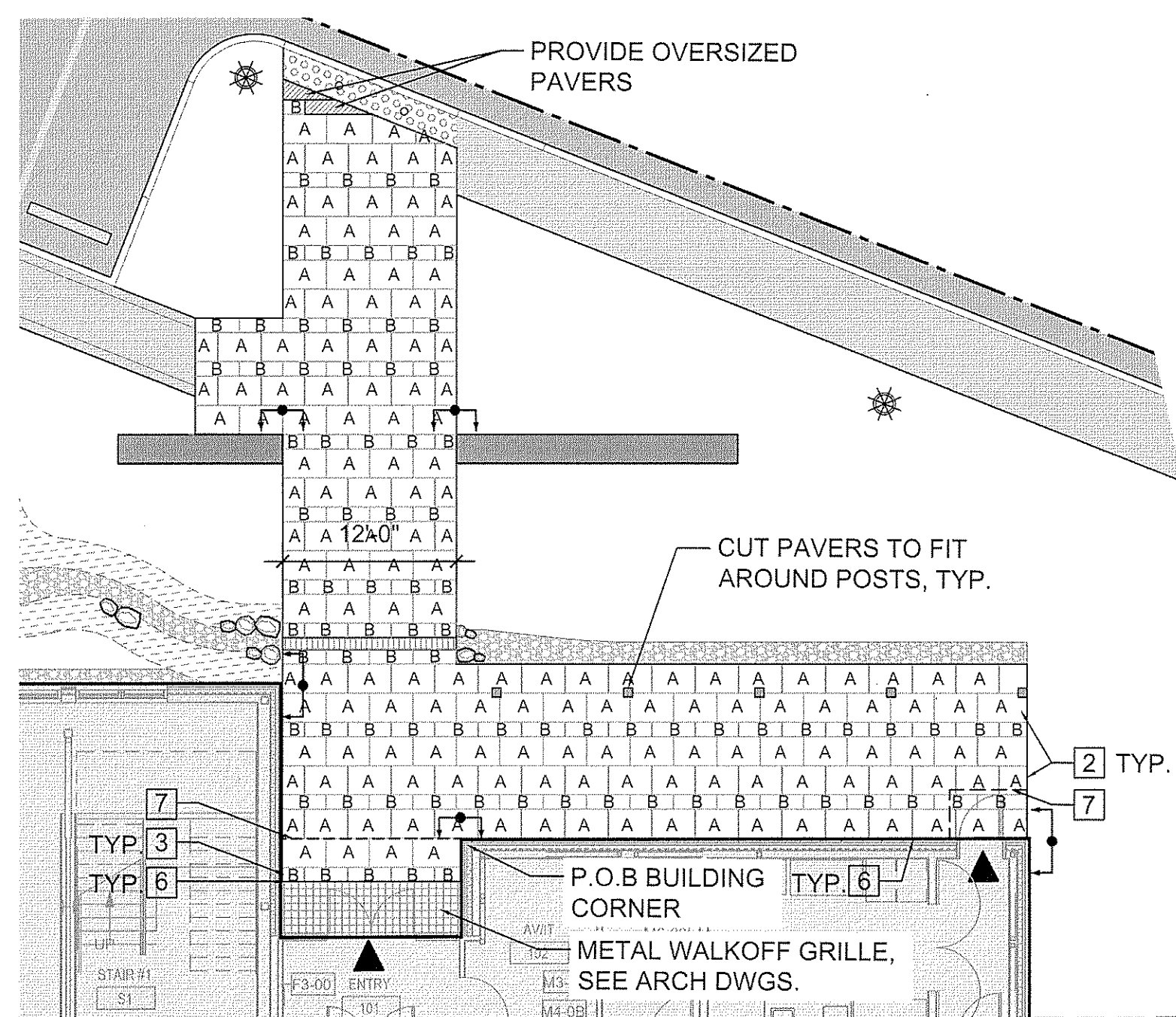


NOTES:

1. REFER TO MEP DRAWINGS FOR CONCRETE PAD PLAN LAYOUTS AND DIMENSIONS.
2. CONCRETE PADS SHALL BE SET LEVEL. SEE GRADING
3. PROVIDE TOOLED OR SAWCUT CONTROL JOINTS IN A GRID AT 5' O.C.

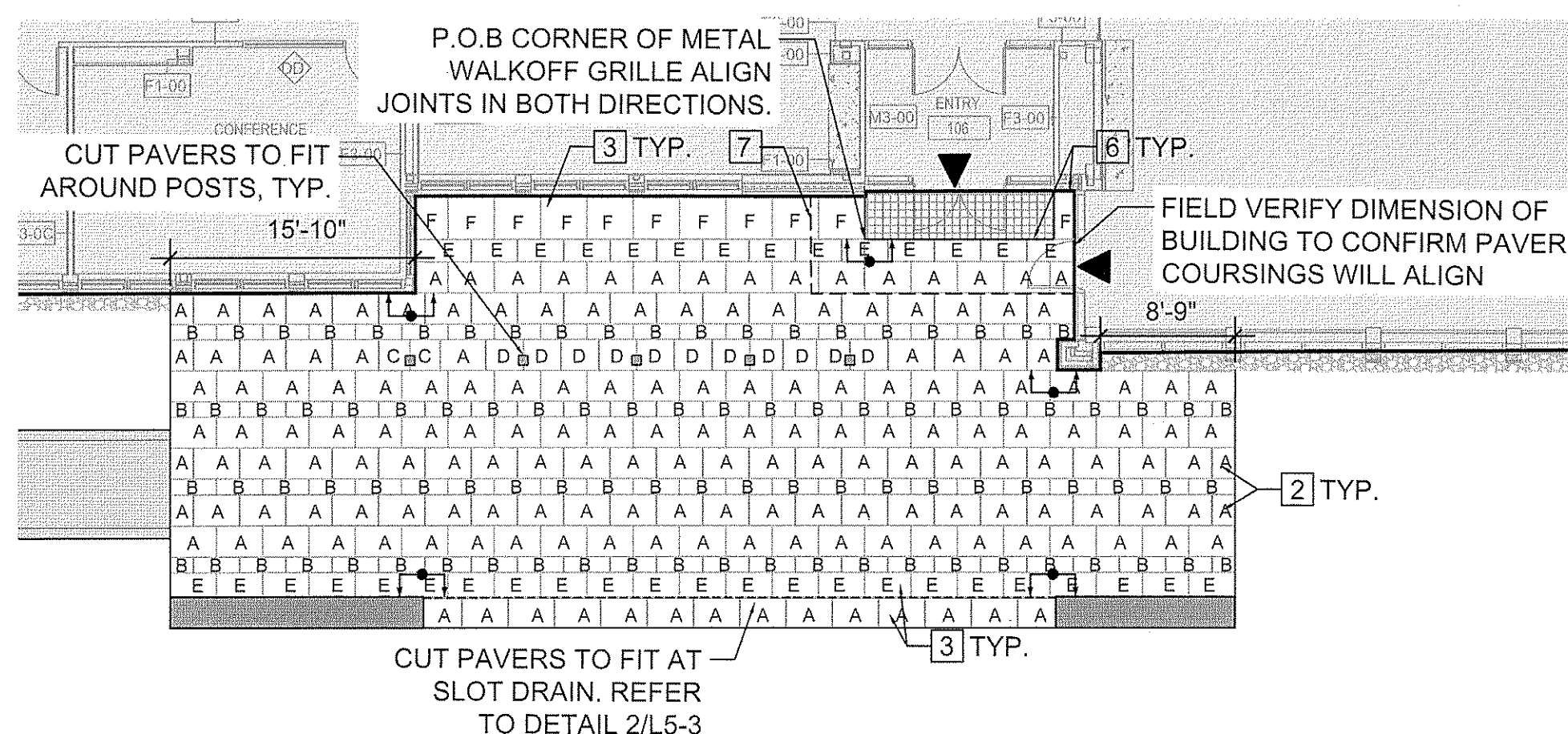
4 CONCRETE UTILITY PAD

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



5 NORTH ENTRANCE PAVING ENLARGEMENT

SCALE: 1" = 10'-0"



6 SOUTH TERRACE PAVING ENLARGEMENT

SCALE: 1" = 10'-0"

PAVER SIZE SCHEDULE:

- A: 24"X36" NOMINAL SIZE
B: 12"X36" NOMINAL SIZE

PAVER LAYOUT NOTES:

1. POINT OF BEGINNING - CENTER PATTERN ON CENTERLINE OF DOOR
2. CUT STONE LENGTH IN FIELD FROM STANDARD 'A' AND 'B' SIZE STONES, TYP.
3. CUT STONE WIDTH IN FIELD FROM STANDARD 'A' AND 'B' SIZE STONES. MINIMUM SIZE FOR CUT STONES AT EDGE TO BE 1/3 OF PAVES WIDTH, TYP. IF LESS THAN 4" WIDTH PROVIDE OVERSIZED PAVERS.
4. ALTERNATING JOINTS SHALL OCCUR AT THE MIDPOINT OF ADJACENT PAVERS
5. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO PROCUREMENT, FABICATION AND INSTALLATION
6. PROVIDE EXPANSION JOINTS AT ALL LOCATIONS WHERE PAVERS MEET BUILDING FACADES AND WALKOFF GRILLES, TYP.
7. APPROACH SLAB BELOW, SEE STRUCTURAL DWGS.

CRITICAL ALIGNMENT

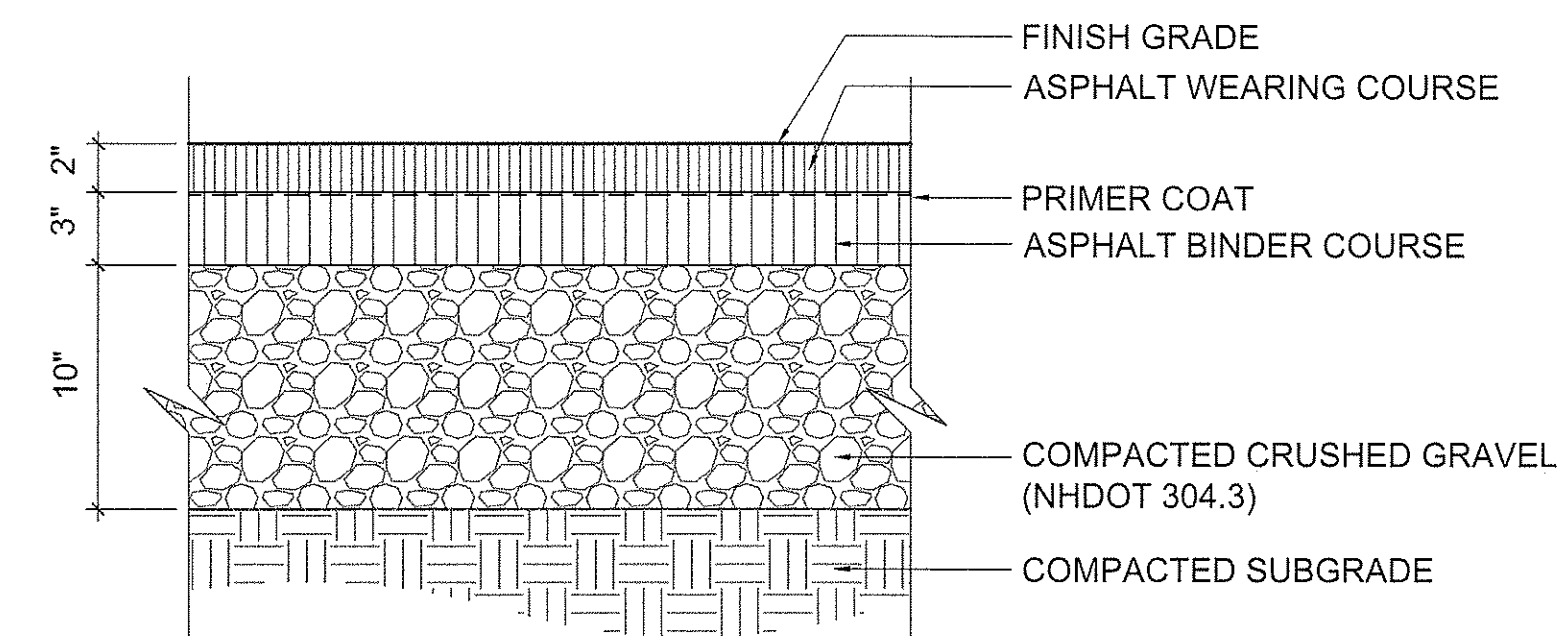
PAVER SIZE SCHEDULE:

- A: 24"X36" NOMINAL SIZE D: 24"X30" NOMINAL SIZE
B: 12"X36" NOMINAL SIZE E: 18"X36" NOMINAL SIZE
C: 24"X24" NOMINAL SIZE F: 36"X36" NOMINAL SIZE

PAVER LAYOUT NOTES:

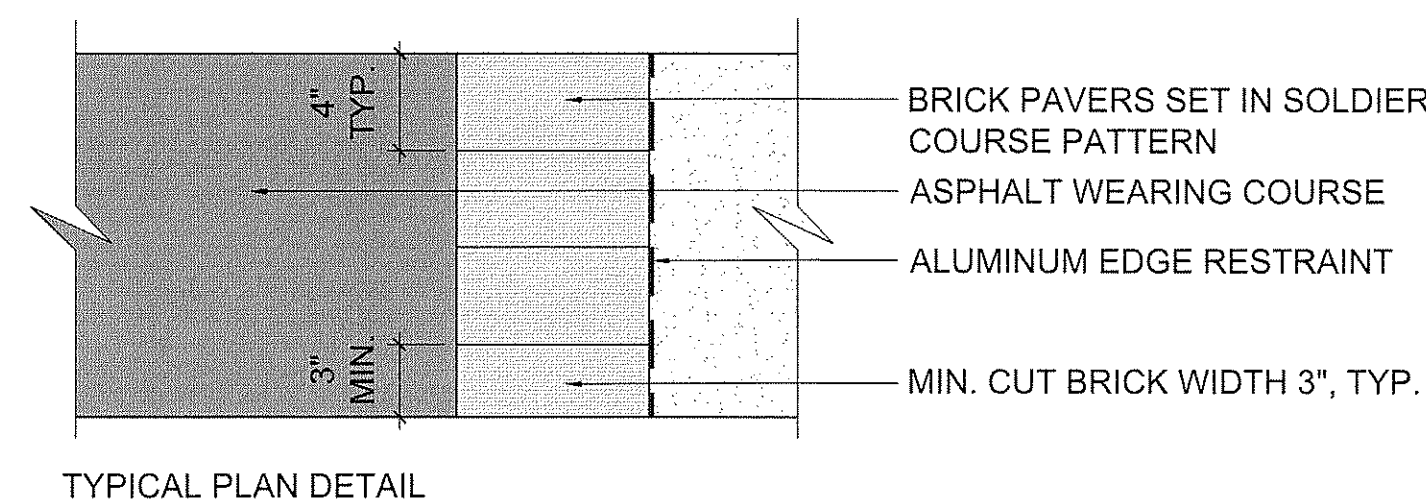
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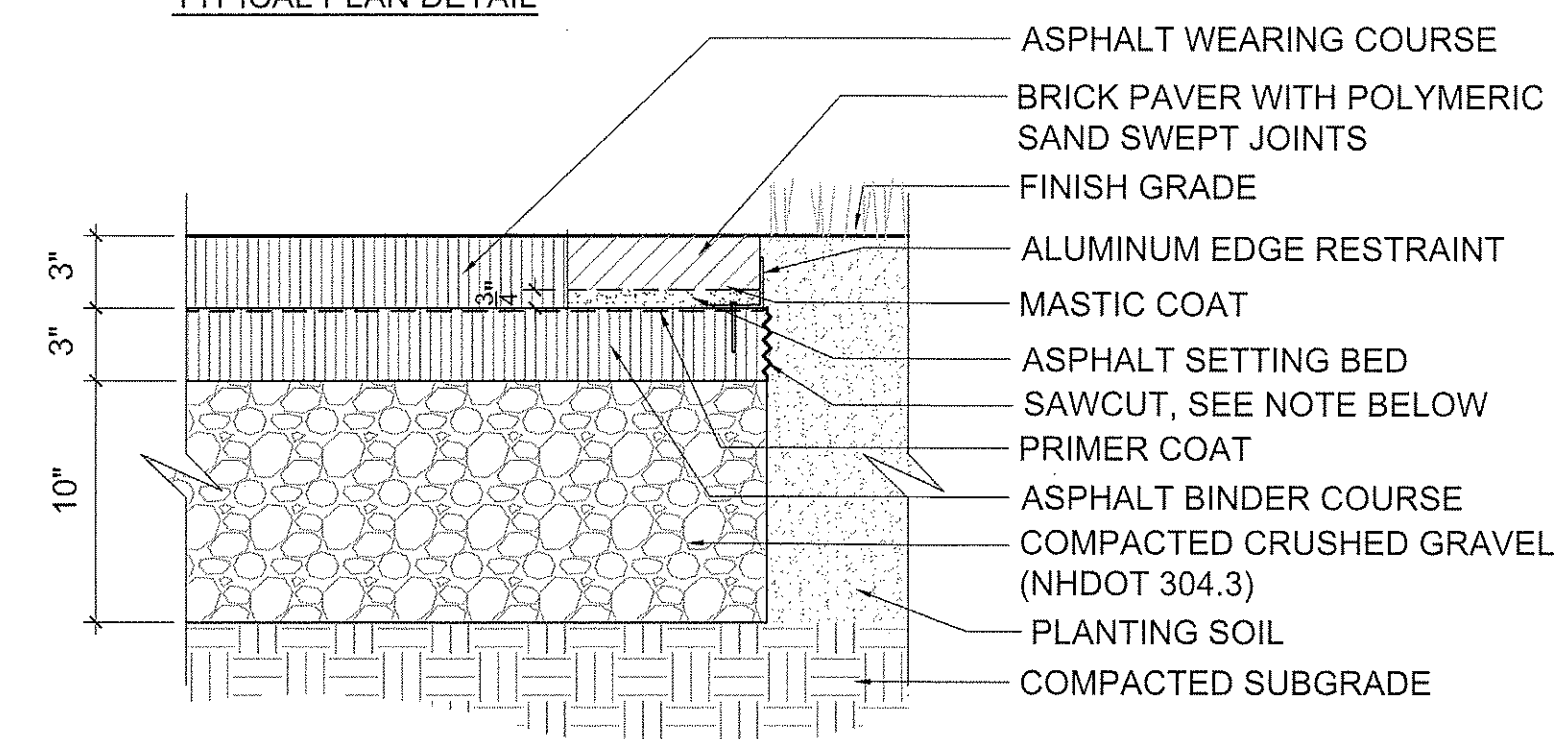


1 ASPHALT PAVEMENT - PEDESTRIAN

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



TYPICAL PLAN DETAIL



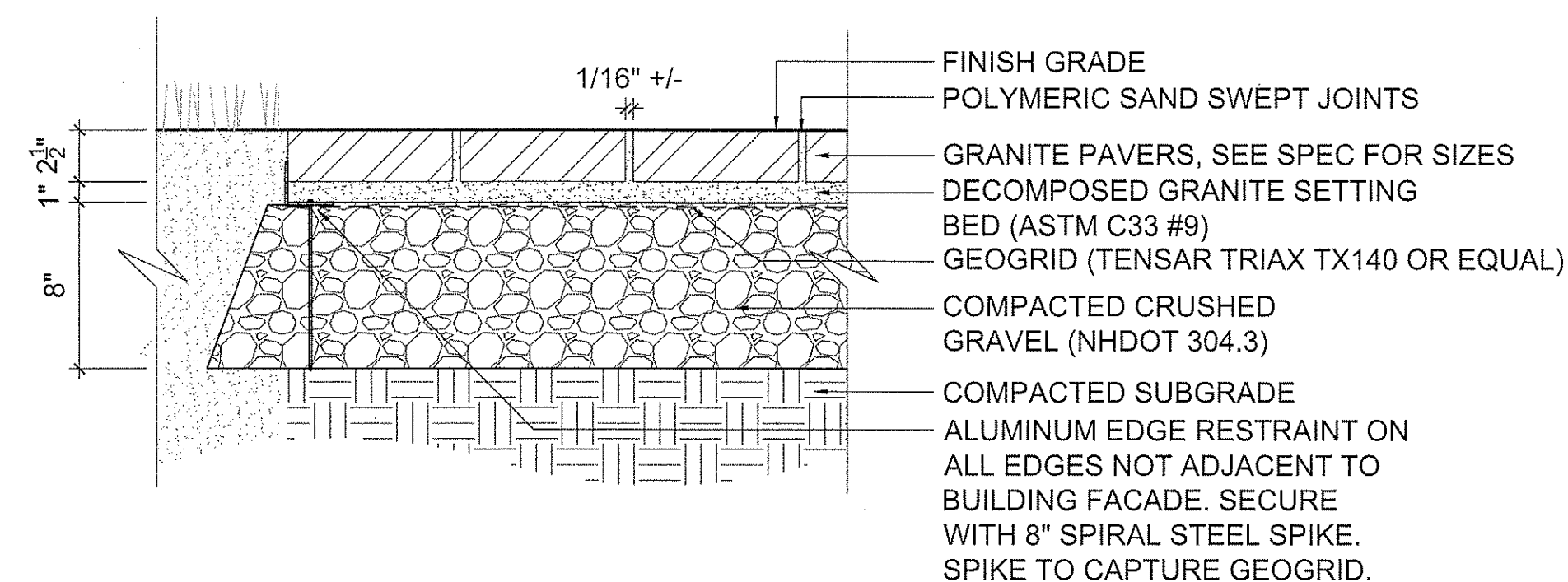
TYPICAL SECTION DETAIL

NOTES:

1. AFTER ALUMINUM EDGE RESTRAINT IS INSTALLED, SAWCUT THE ASPHALT BINDER COURSE TO ESTABLISH A CLEAN EDGE PARALLEL TO THE ALUMINUM EDGE. THE ASPHALT BINDER COURSE SHALL PROJECT NO MORE THAN 1/8" BEYOND THE OUTSIDE FACE OF ALUMINUM EDGE.

2 ASPHALT PAVEMENT WITH BRICK BORDER

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



3 GRANITE PAVEMENT

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

REVISIONS		
#	DATE	DESCRIPTION

FLEISCHNER FAMILY
ADMISSION CENTER



St. Paul's School

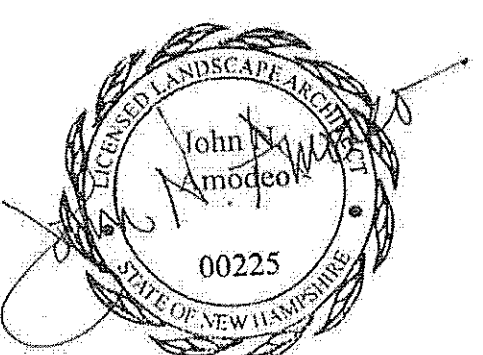
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One Constitution Road
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DOCUMENTS

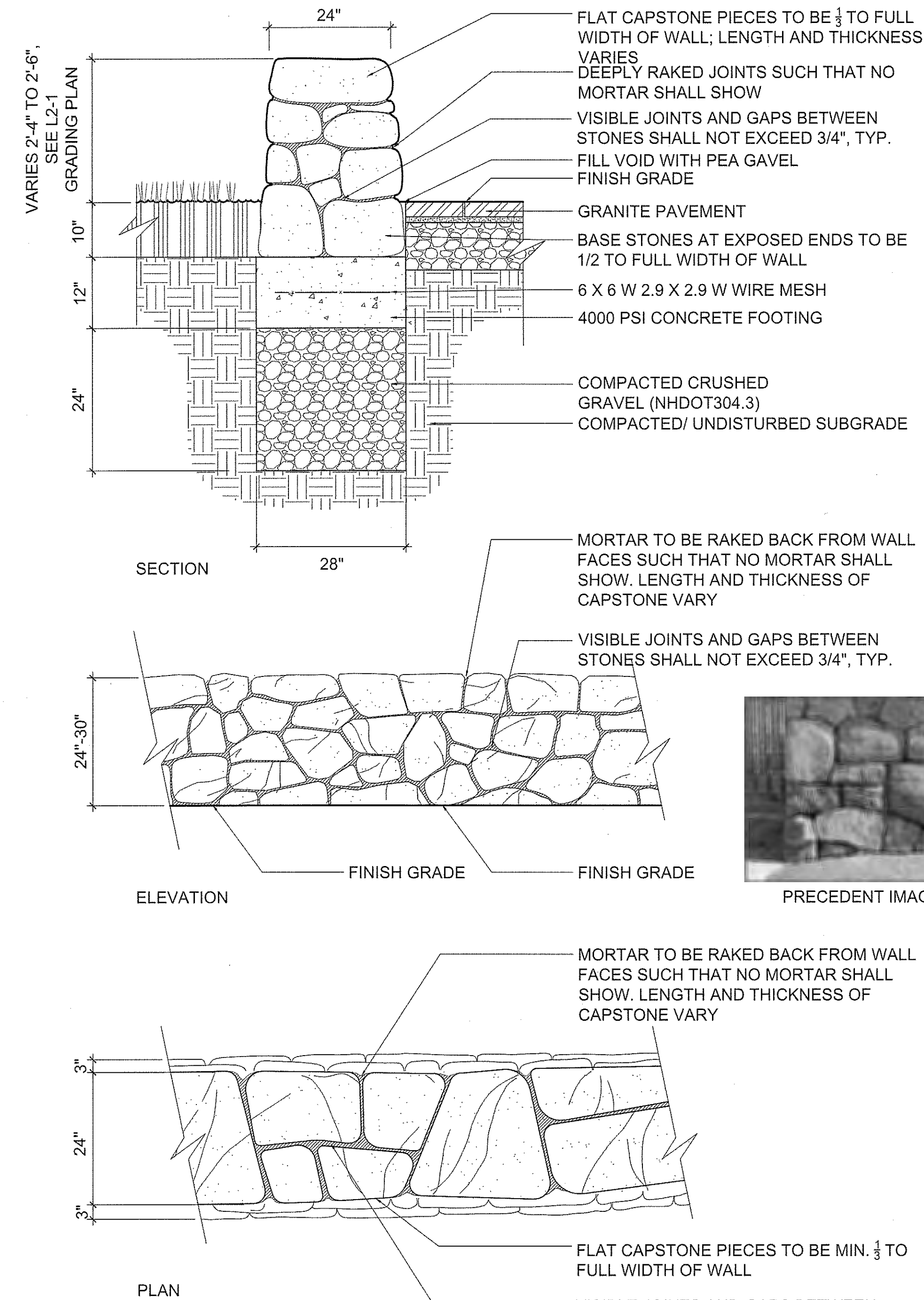


PAVING DETAILS

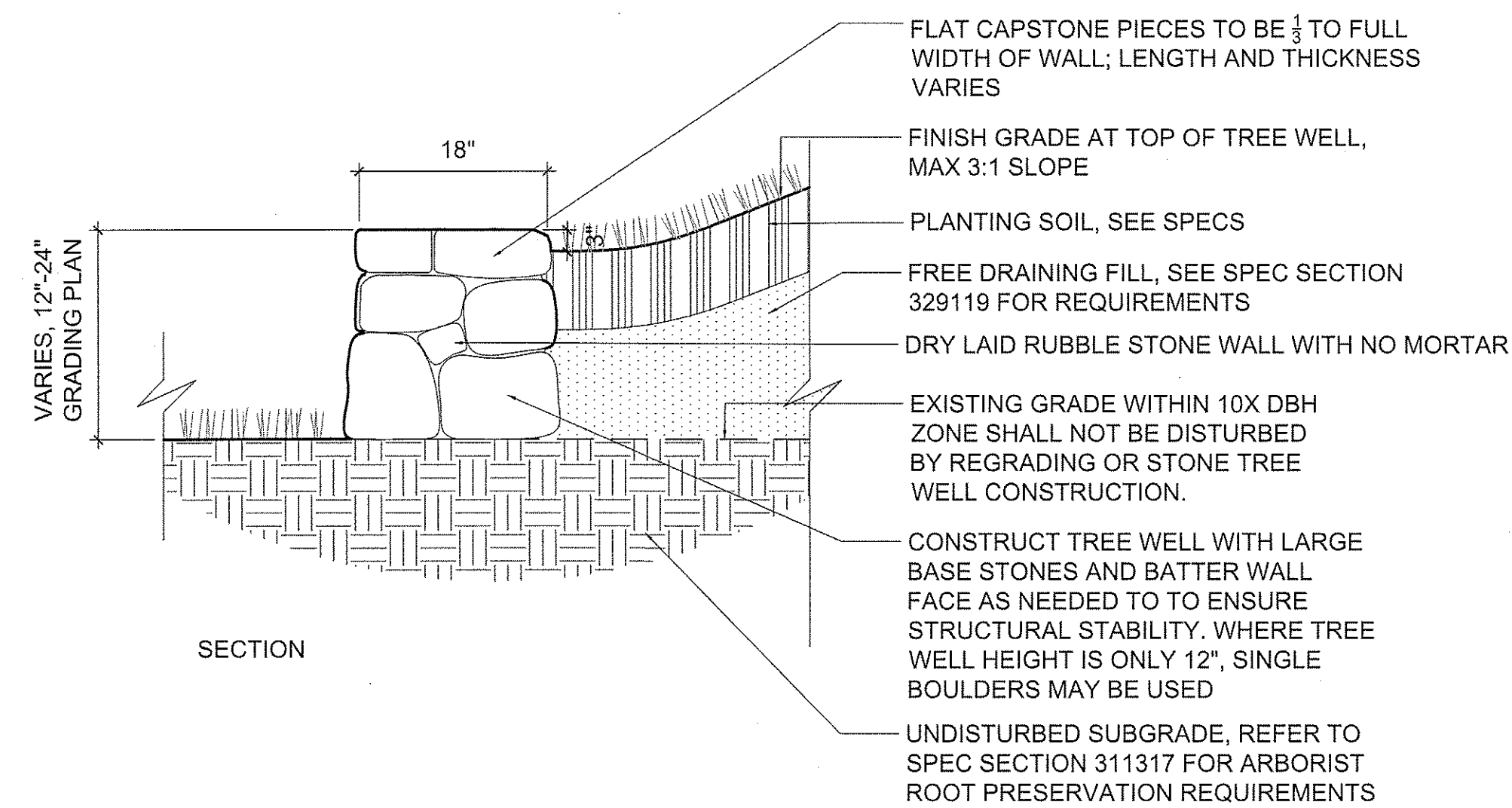
SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

L5-1

4376-26



1 STONE WALL - FREESTANDING
SCALE: 3/4" = 1'-0"



2 ADD ALTERNATE STONE TREE WELL
SCALE: 3/4" = 1'-0"

REVISIONS		
#	DATE	DESCRIPTION

FLEISCHNER FAMILY
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St. Paul's School

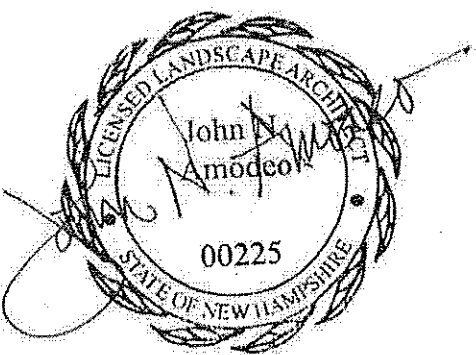
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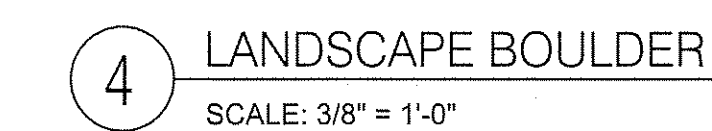
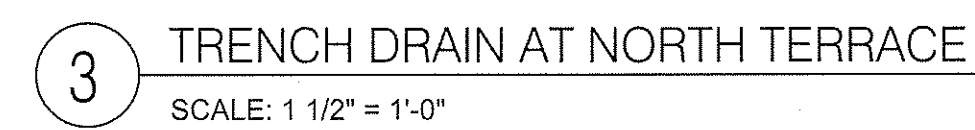
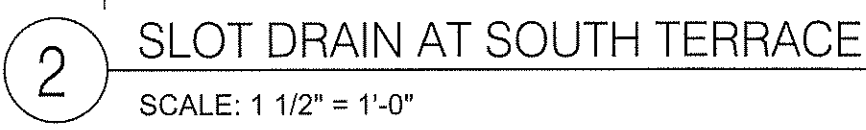
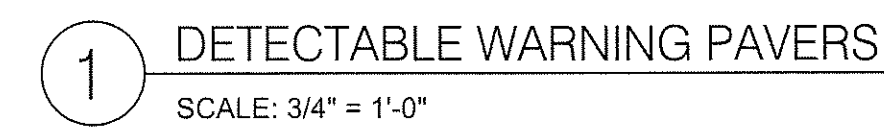
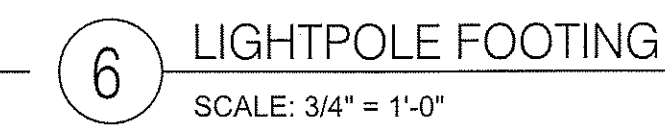
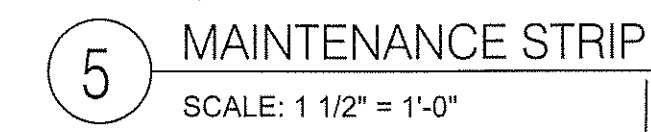
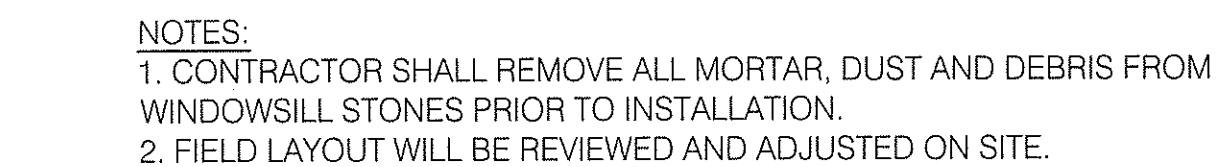
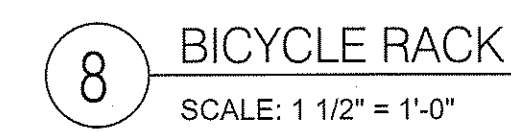


WALL DETAILS

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

L5-2

4376-2.7

[illegible]

FLEISCHNER FAMILY
ADMISSION CENTER



ST. PAUL'S SCHOOL

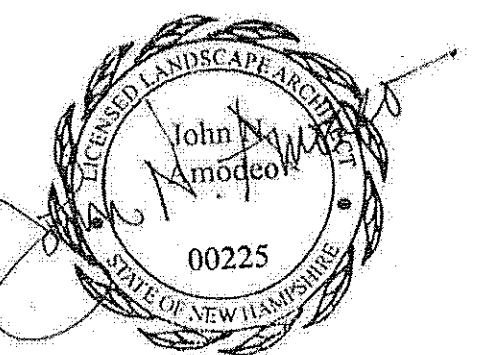
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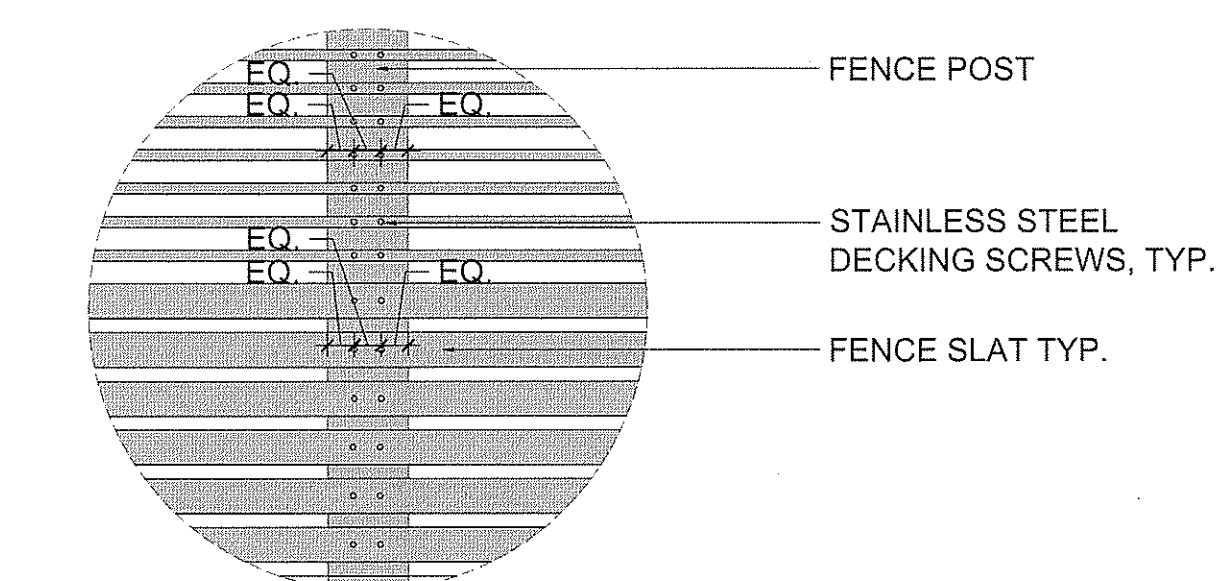
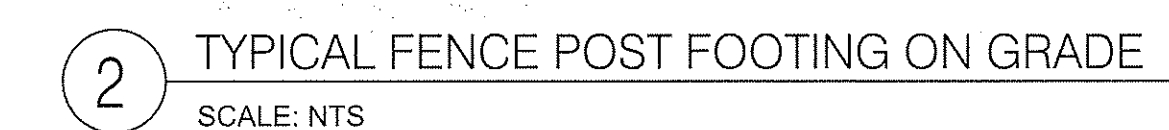
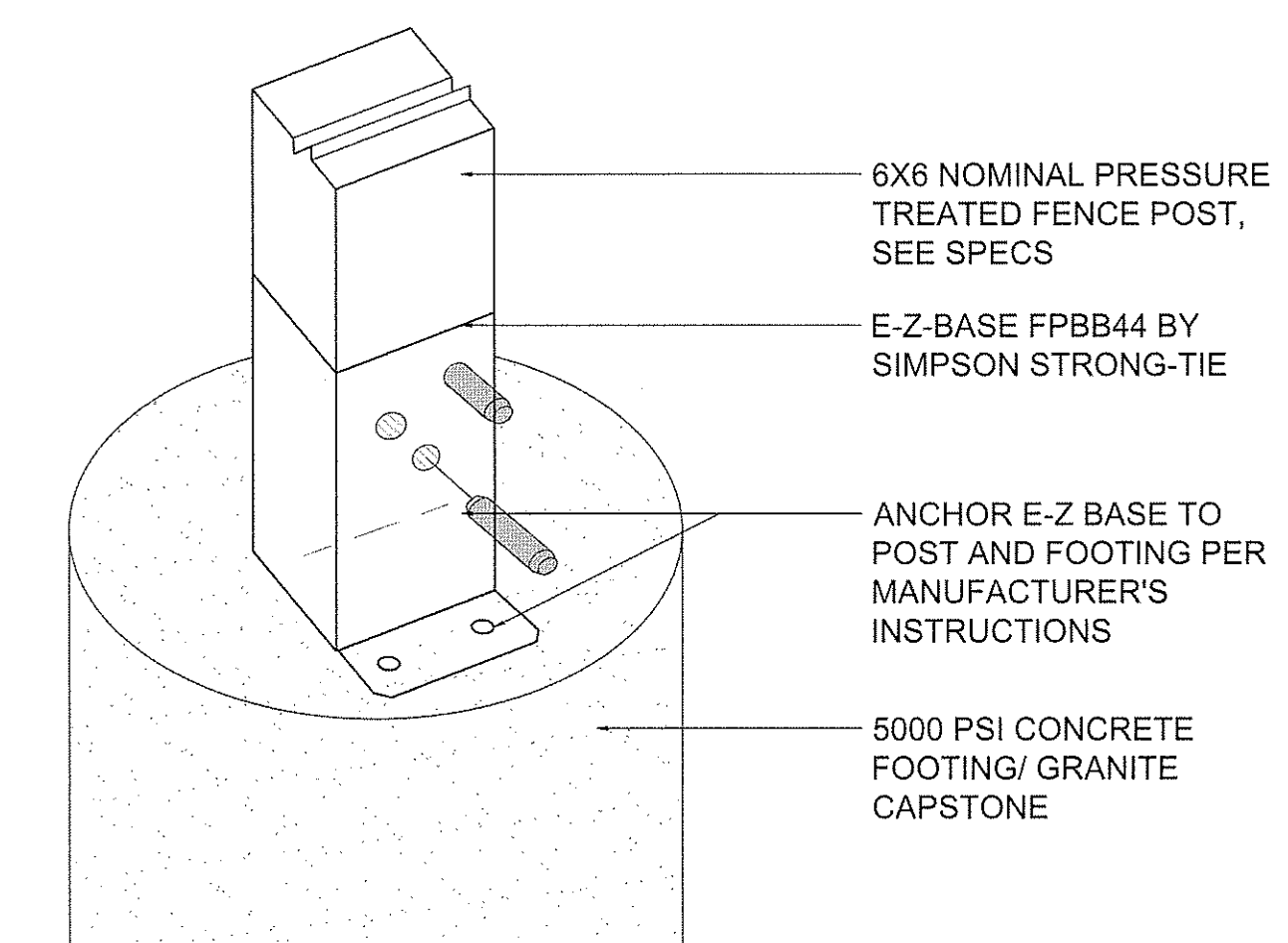
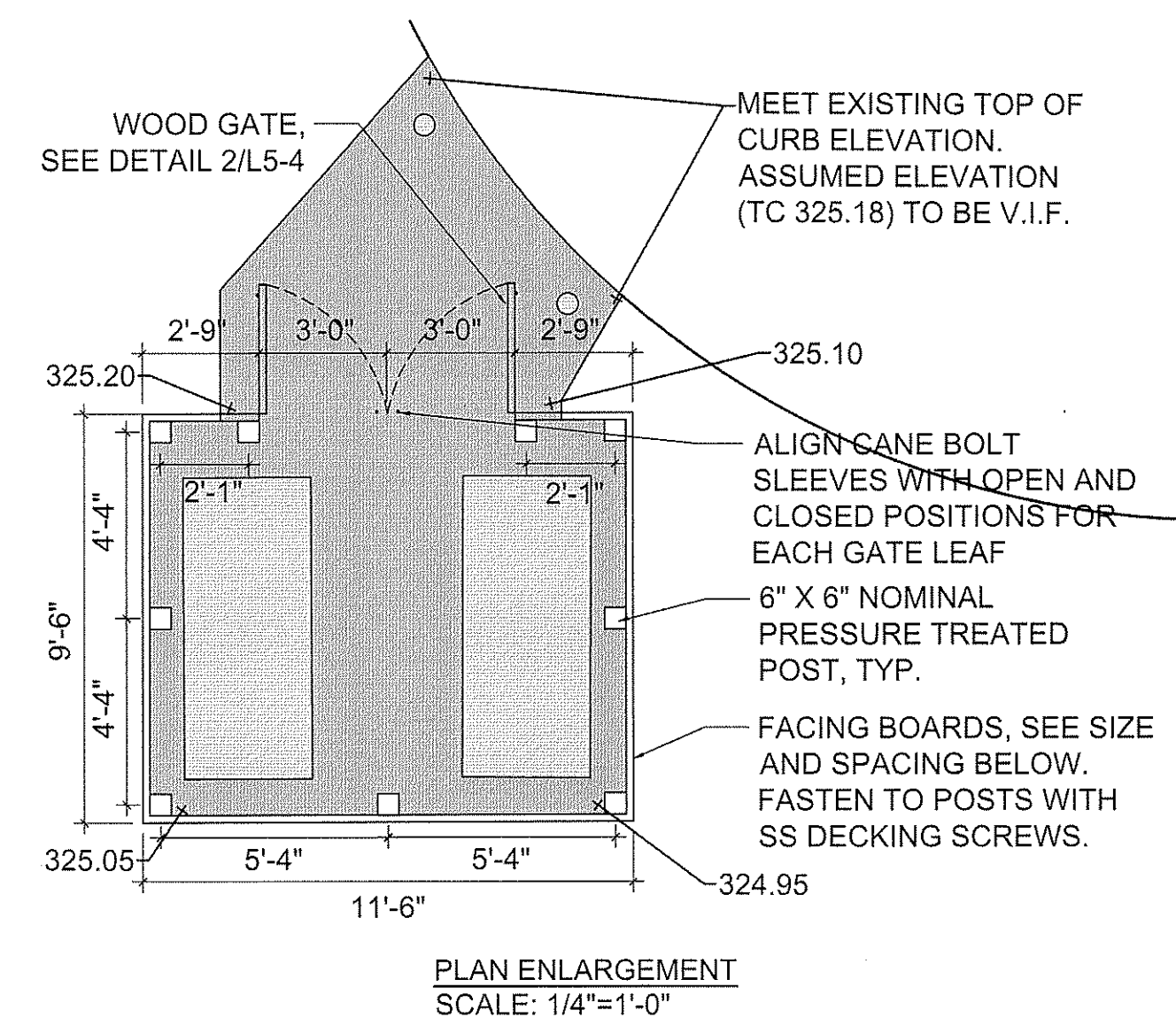
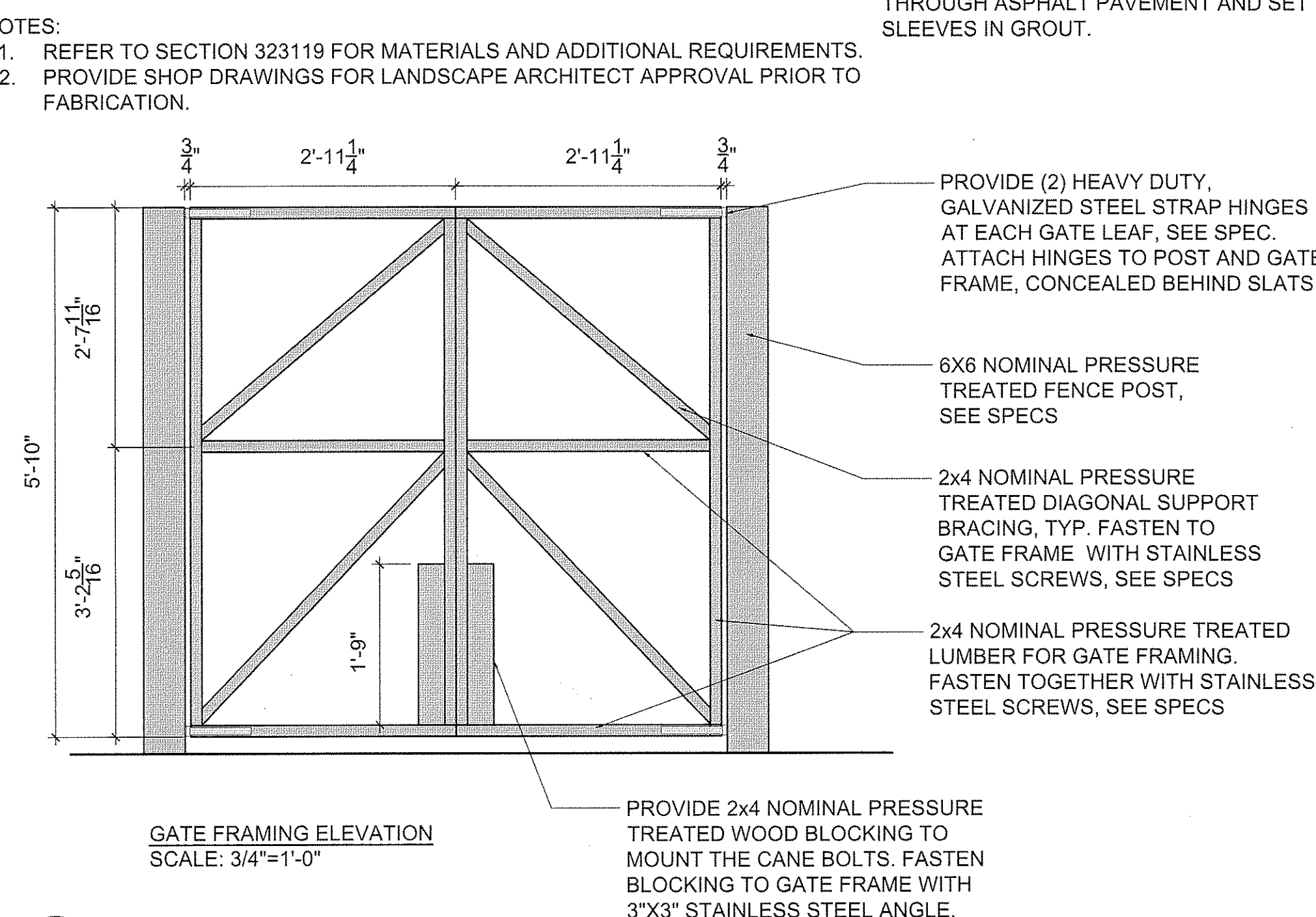
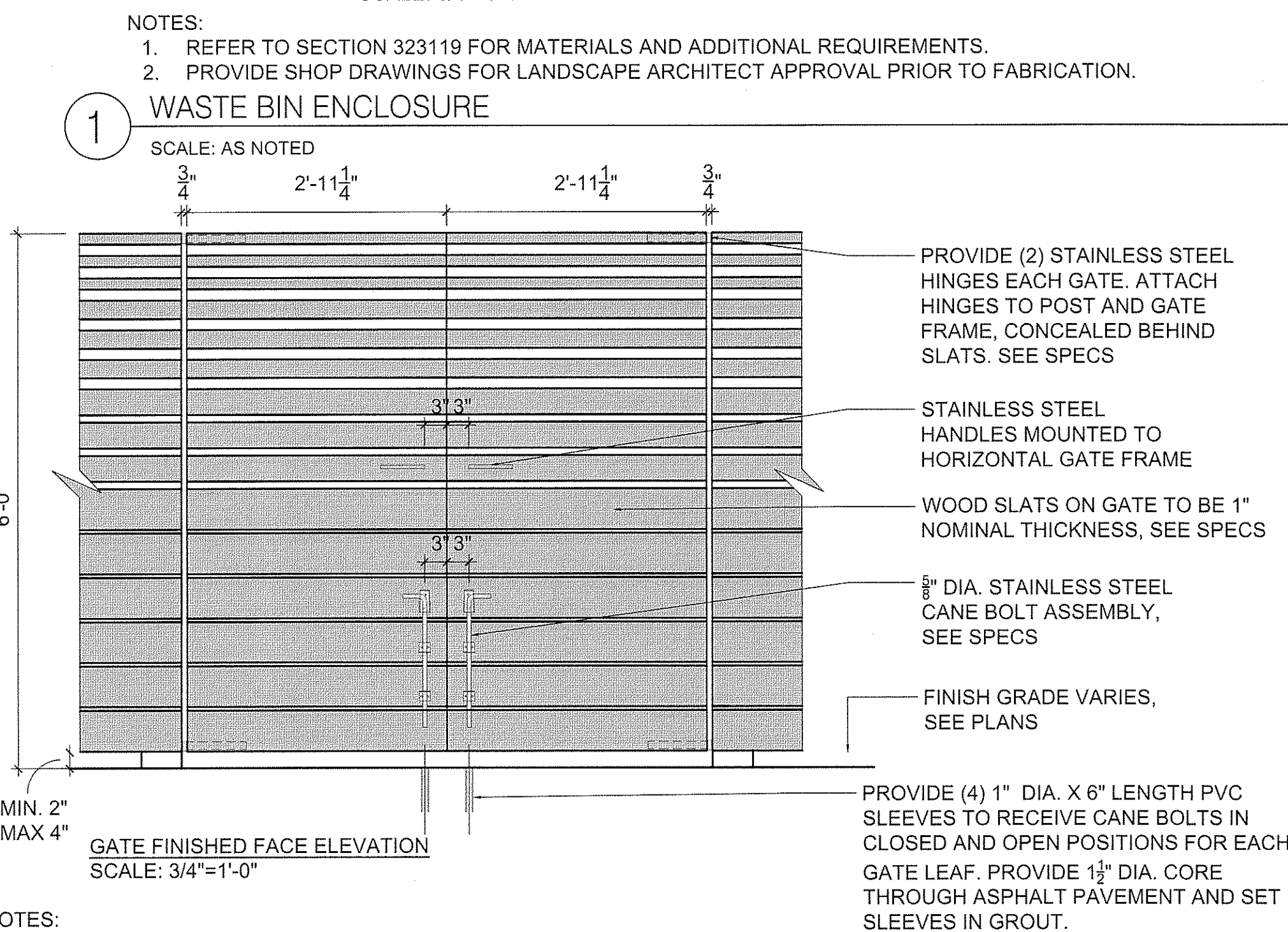
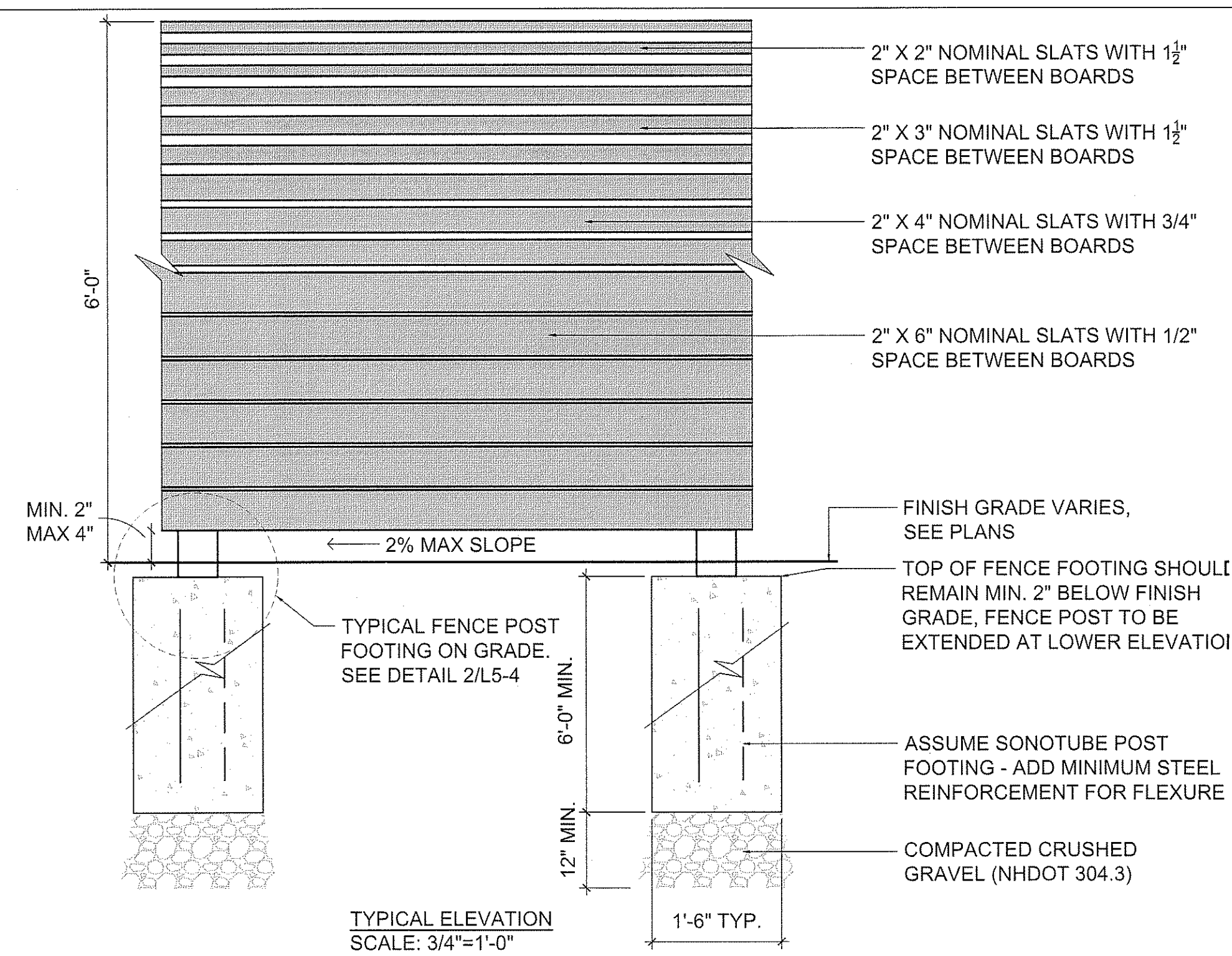
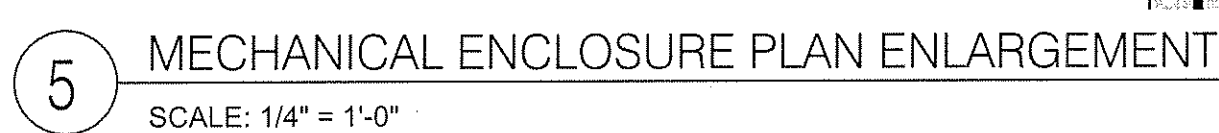
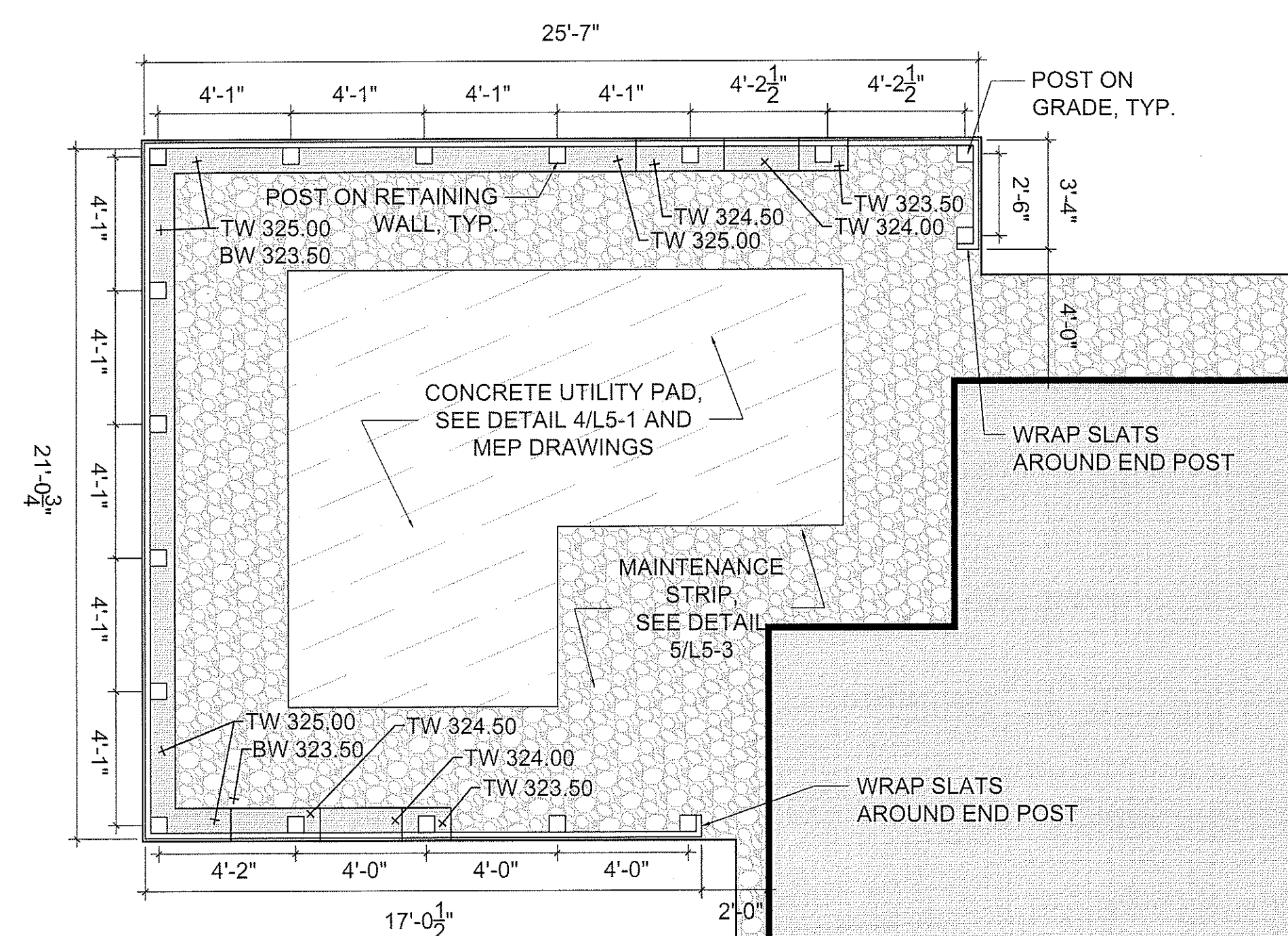
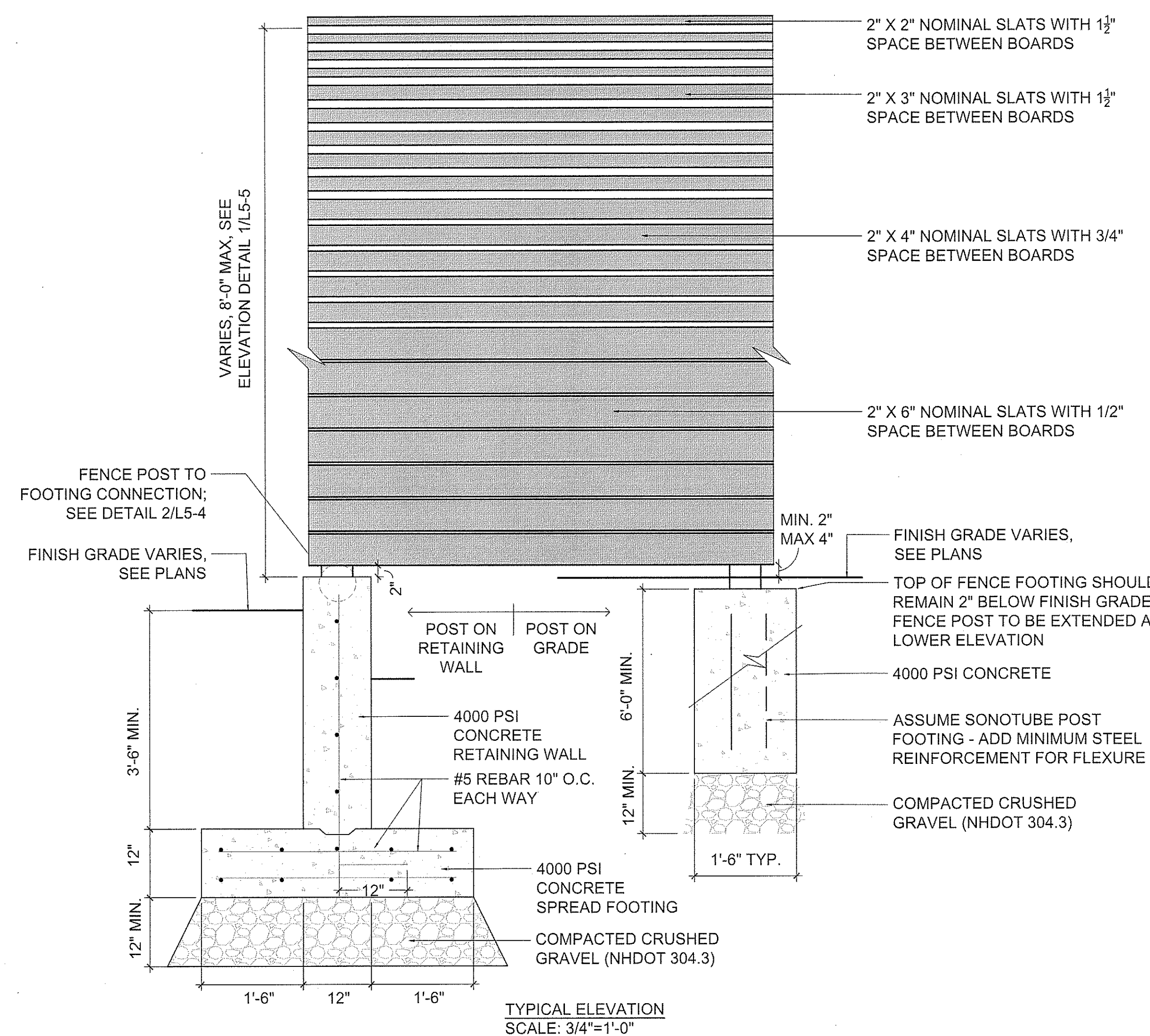


SITE IMPROVEMENT DETAILS

SCALE	PROJECT #	DATE ISSUED
AS NOTED	229008.00	06/30/2023

-5-3

4376-28

[illegible]

FLEISCHNER FAMILY
ADMISSION CENTER



ST. PAUL'S SCHOOL

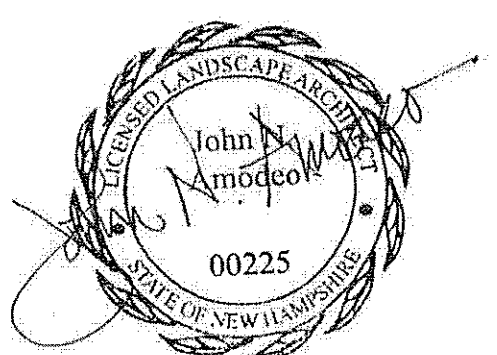
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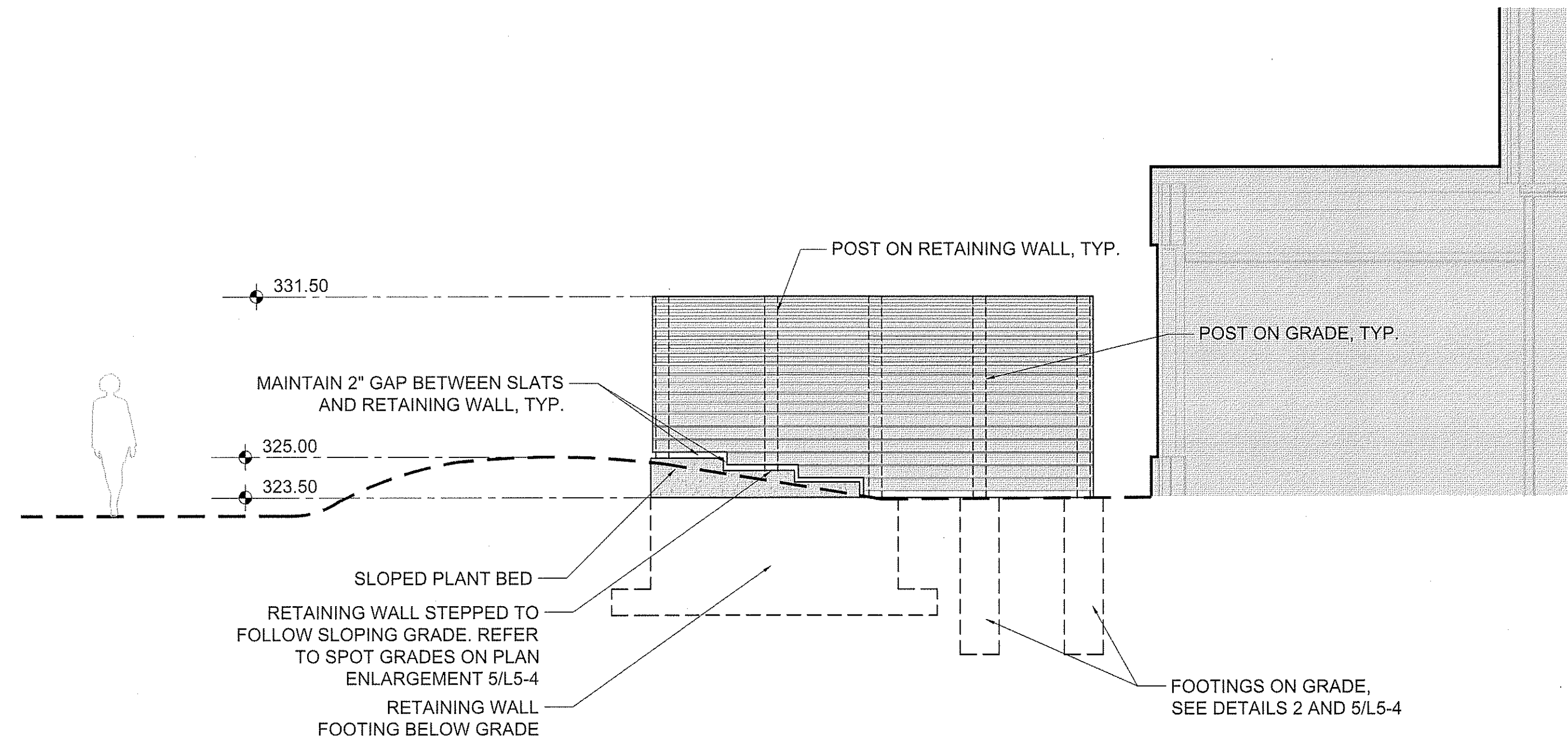
CONSTRUCTION DOCUMENTS



WOOD FENCE AND GATE DETAILS

SCALE	PROJECT #	DATE ISSUED
AS NOTED	229008 00	06/30/2023

L5-4



1 MECHANICAL ENCLOSURE STEPPED WALL ELEVATION
SCALE: 1/4" = 1'-0"

RECEIVED
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Planning Division
Concord, NH

REVISIONS		
#	DATE	DESCRIPTION

FLEISCHNER FAMILY
ADMISSION CENTER



ST. PAUL'S SCHOOL

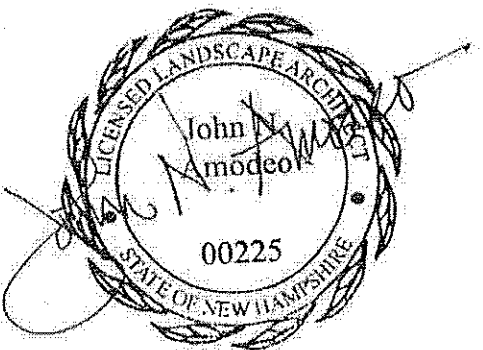
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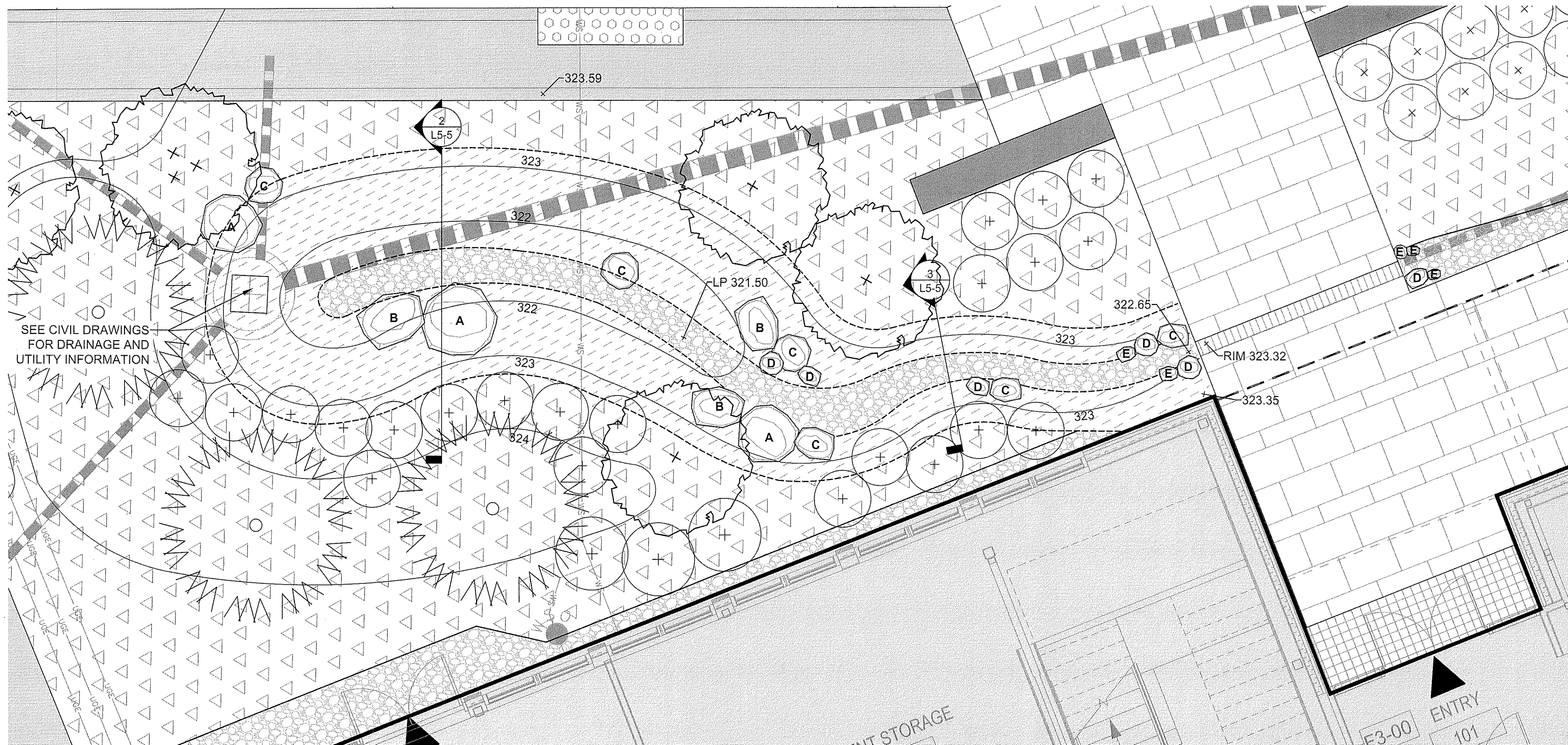


WOOD FENCE
ELEVATIONS

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

L5-5

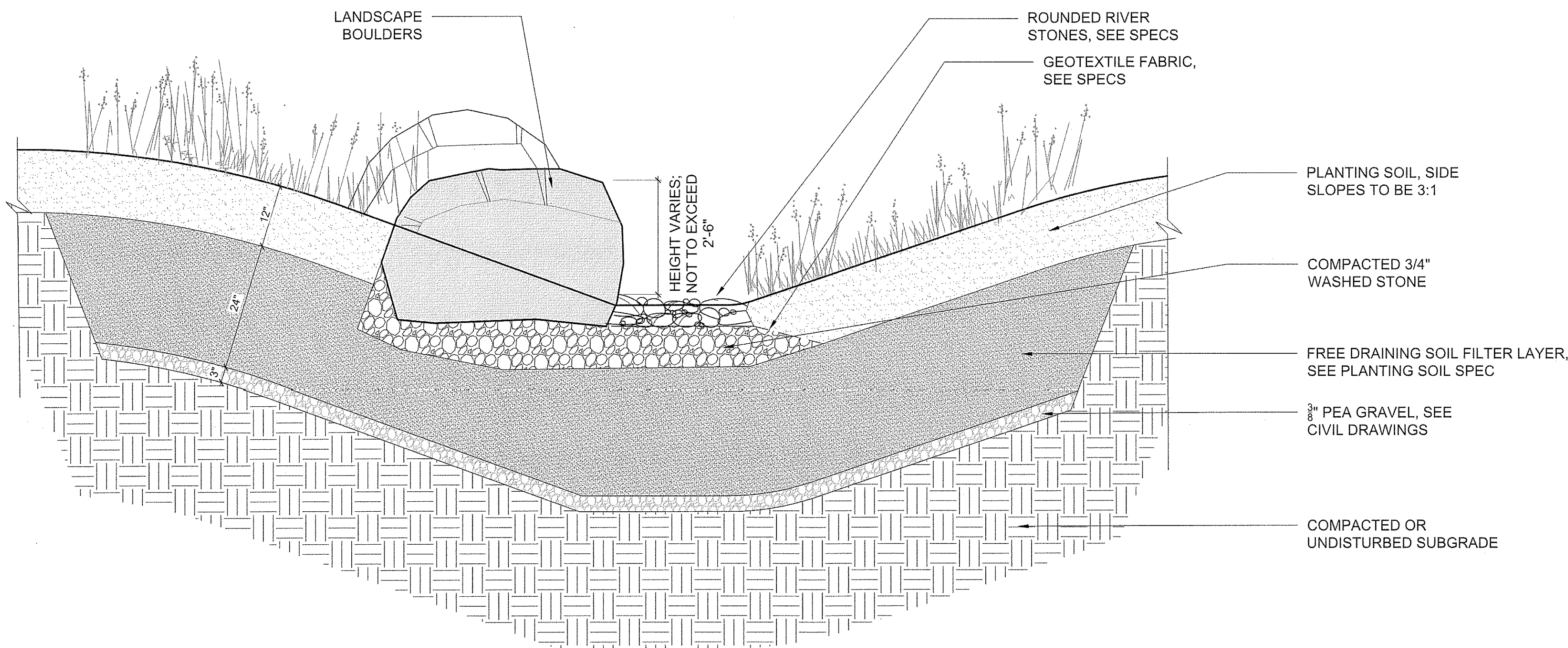
4376-30



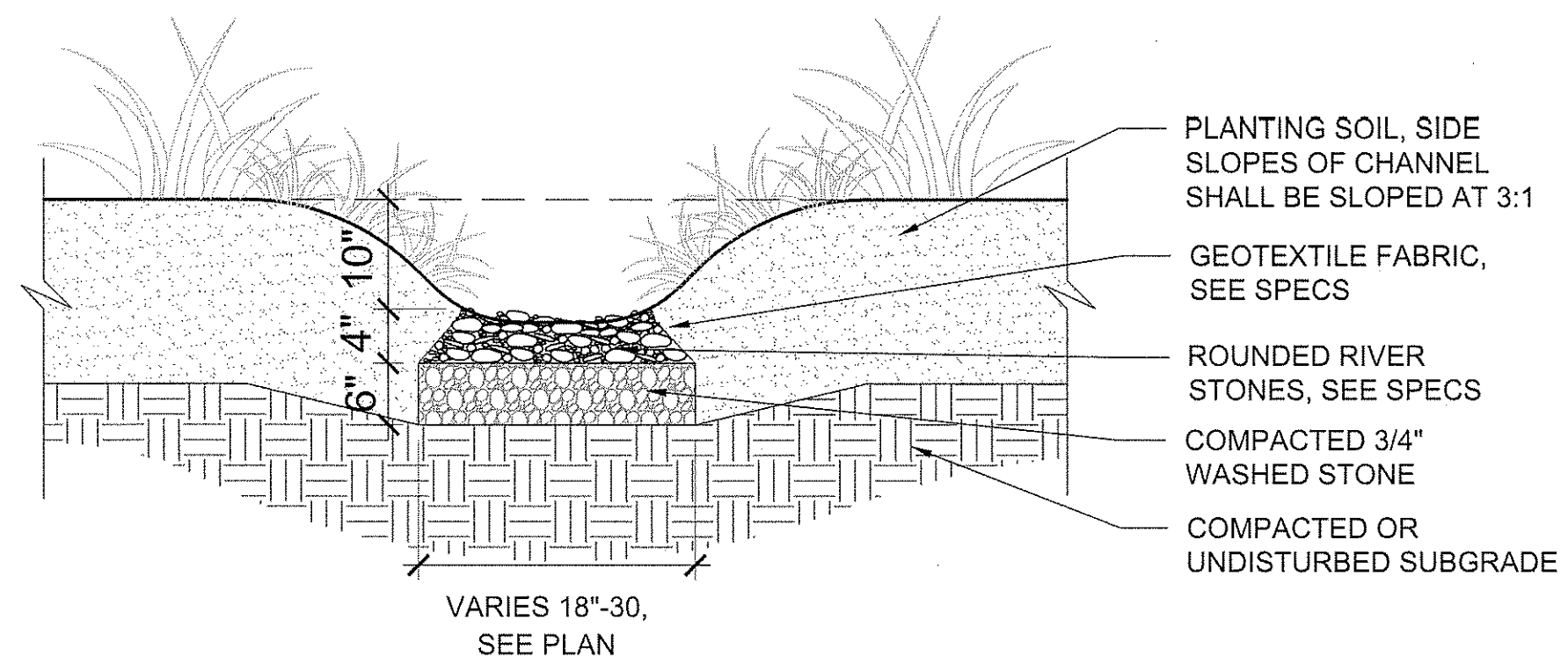
1 RAIN ENLARGEMENT GARDEN PLAN
SCALE: 1/4" = 1'-0"

BOULDER SCHEDULE

TYPE	QUANTITY	X (WIDTH)	Y (LENGTH)	Z (HEIGHT)
A	3	36"-42"	36"-42"	36"-42"
B	3	30"-36"	30"-36"	30"-36"
C	6	24"-36"	24"-36"	24"-36"
D	6	12"-24"	12"-24"	12"-24"
E	5	8"-12"	8"-12"	8"-12"



2 RAIN GARDEN CROSS SECTION
SCALE: 3/4" = 1'-0"



3 RIVER STONE CHANNEL
SCALE: 3/4" = 1'-0"

#	DATE	DESCRIPTION

FLEISCHNER FAMILY
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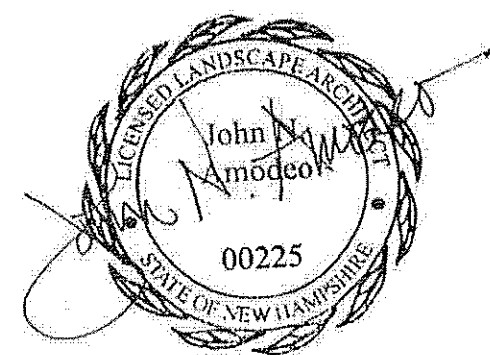
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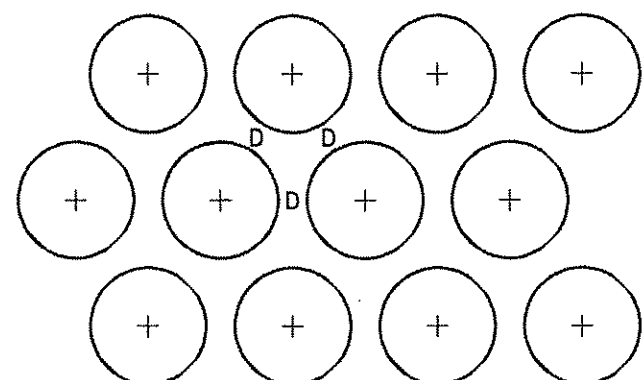


RAIN GARDEN
DETAILS

SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

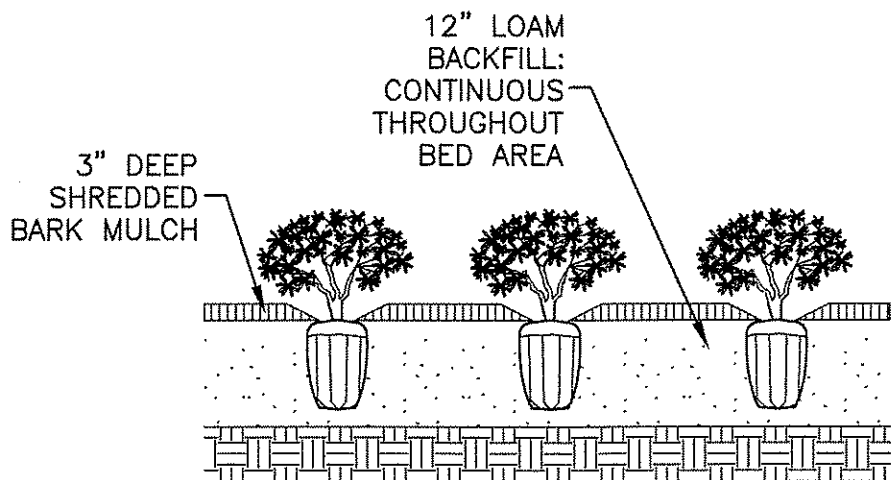
L5-6

4376-31



TYPICAL BED PLANT SPACING

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

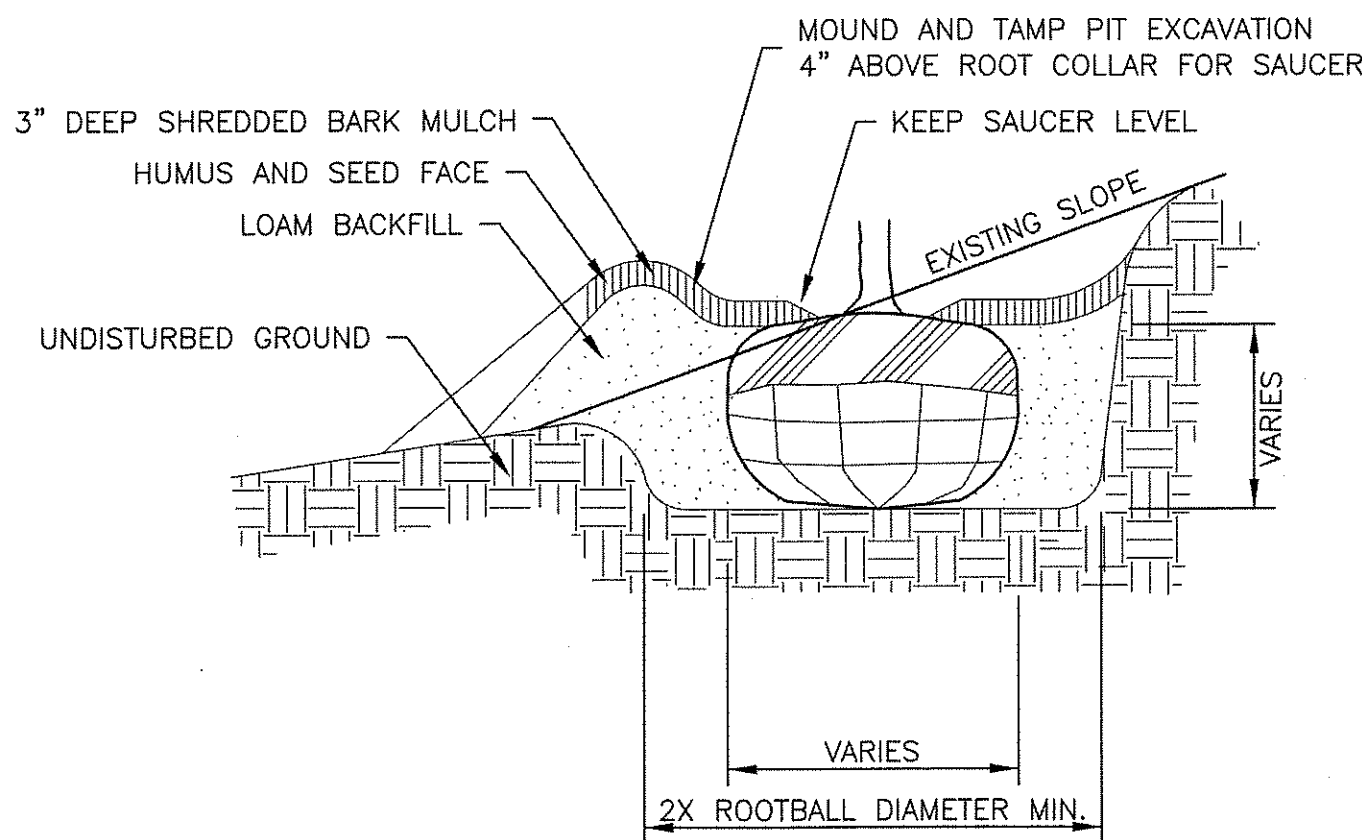


GROUNDCOVER BED PLANTING

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

GROUNDCOVER PLANTING

5 GROUNDCOVER PLANTING
SCALE: NTS

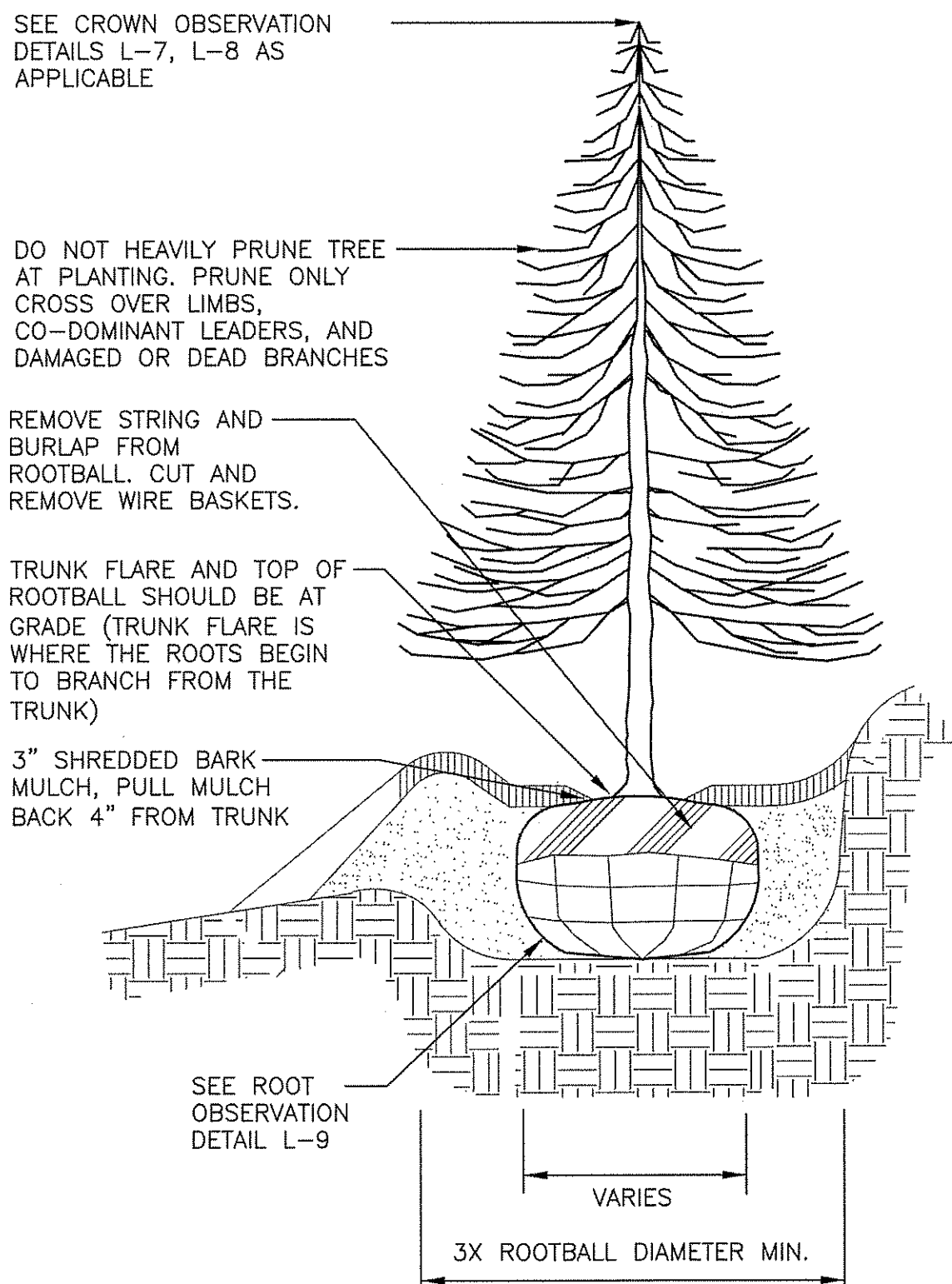


TYPICAL PLANTING PIT ON SLOPE 4:1 OR GREATER

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	LANDSCAPE
1	NOTES	4.15		DRAWING NO.	L-6
2				DATE:	12/08
3				PAGE:	1

TREE PLANTING ON SLOPE

6 TREE PLANTING ON SLOPE
SCALE: NTS

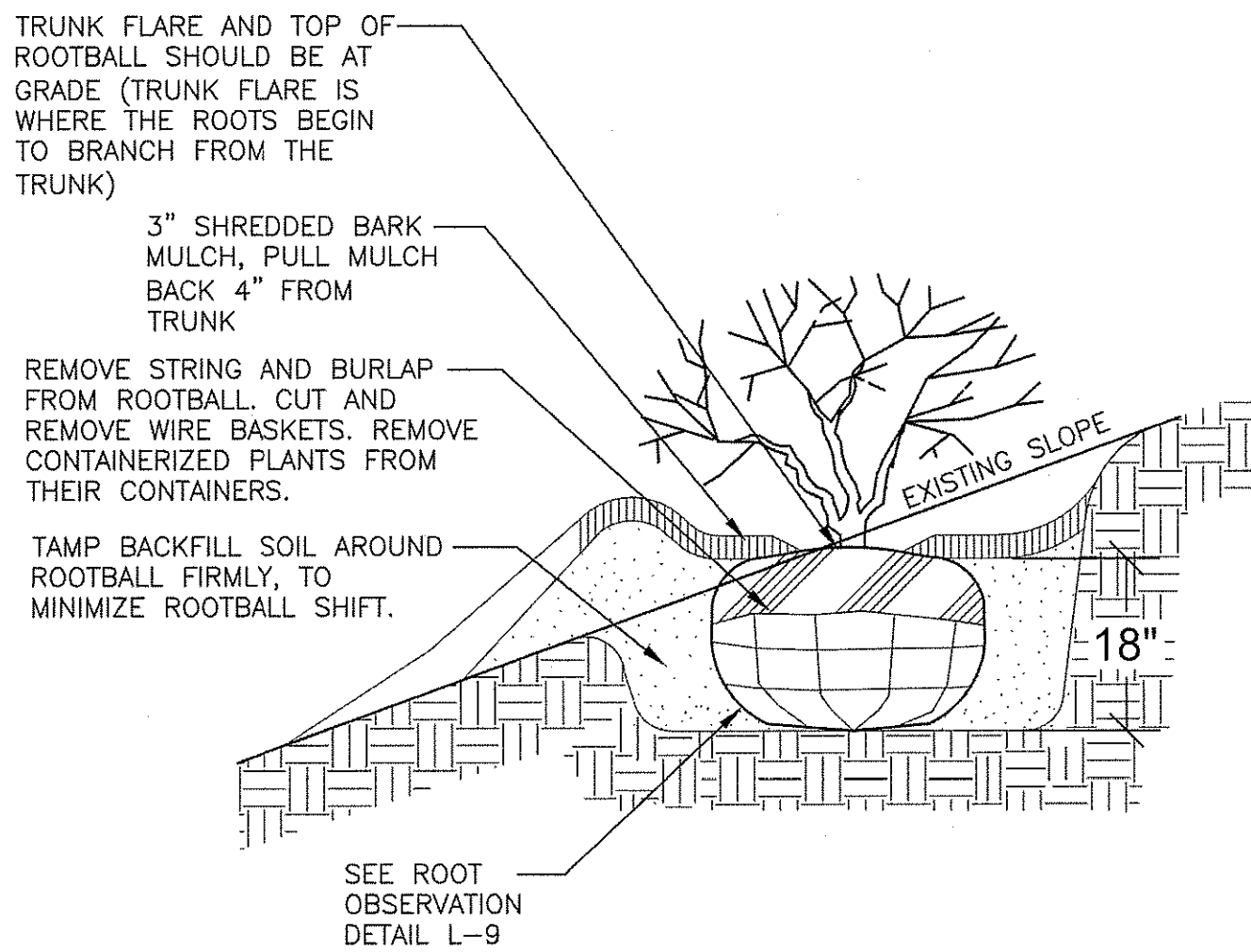


- NOTES:
- DO NOT STAKE EVERGREEN TREES.
 - LOAM FOR BACKFILLING SHALL BE AMENDED AS REQUIRED BY LANDSCAPE ARCHITECT.
 - TAMP BACKFILL SOIL AROUND ROOTBALL FIRMLY TO MINIMIZE ROOTBALL SHIFT.
 - TREE TO BE SET PLUMB, AFTER SETTLEMENT
 - ALL NURSERY TAGS, TAPE, AND SIMILAR MATERIALS SHALL BE REMOVED.

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

EVERGREEN PLANTING

3 EVERGREEN TREE PLANTING
SCALE: NTS

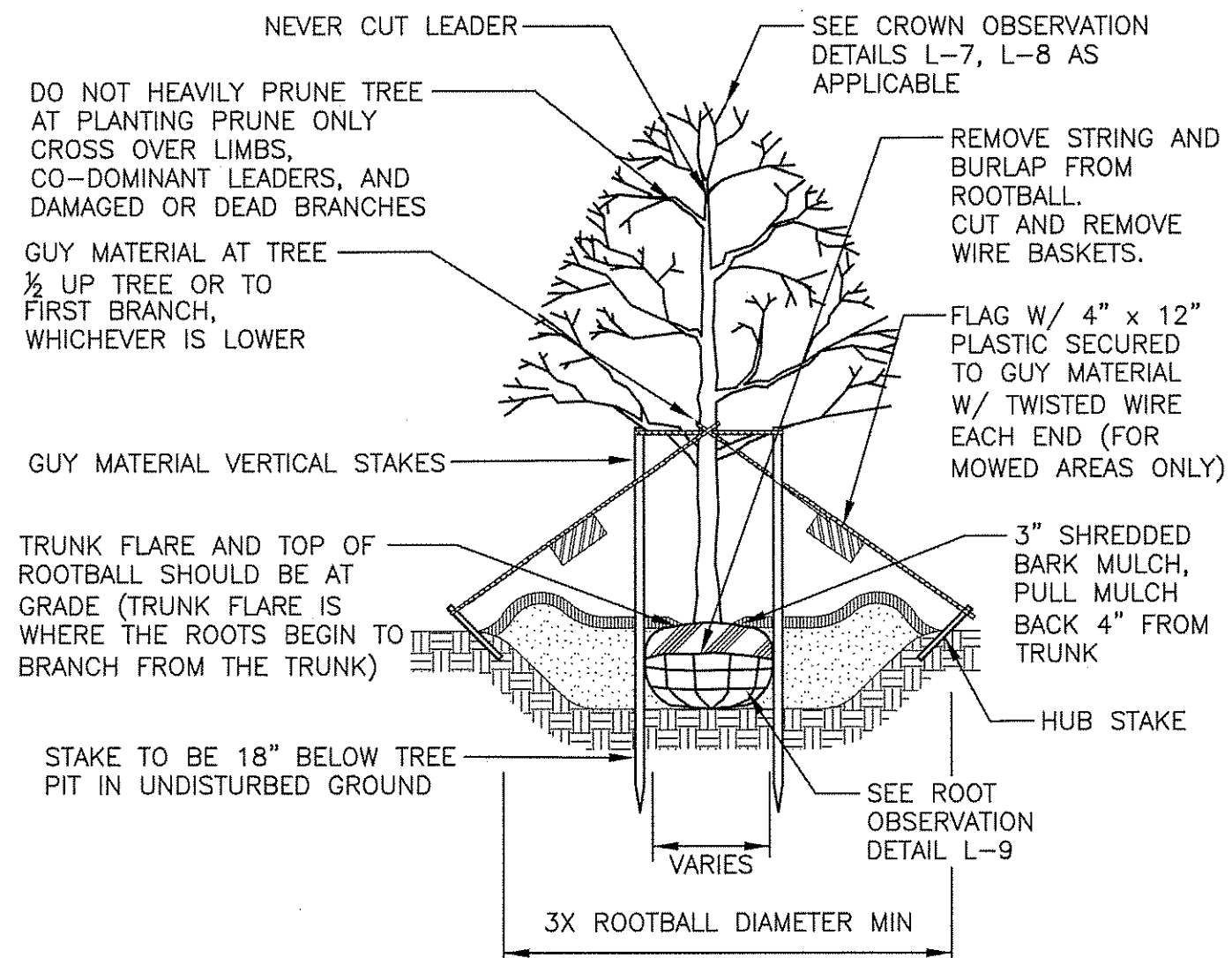


- NOTES:
- DO NOT HEAVILY PRUNE SHRUB AT PLANTING, PRUNE ONLY CROSSOVER LIMBS AND DAMAGED OR DEAD BRANCHES.
 - BACKFILL WITH LOAM, AMEND AS REQUIRED BY LANDSCAPE ARCHITECT.
 - SHRUBS & GROUNDCOVER PLANTED ADJACENT TO CITY SIDEWALKS NEED TO BE PLACED SO THE PLANTS, AT THEIR MATURE HEIGHT & WIDTH, WILL 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		DRAWING NO.	L-4
2				DATE:	12/08
3				PAGE:	1

SHRUB PLANTING

4 SHRUB PLANTING
SCALE: NTS

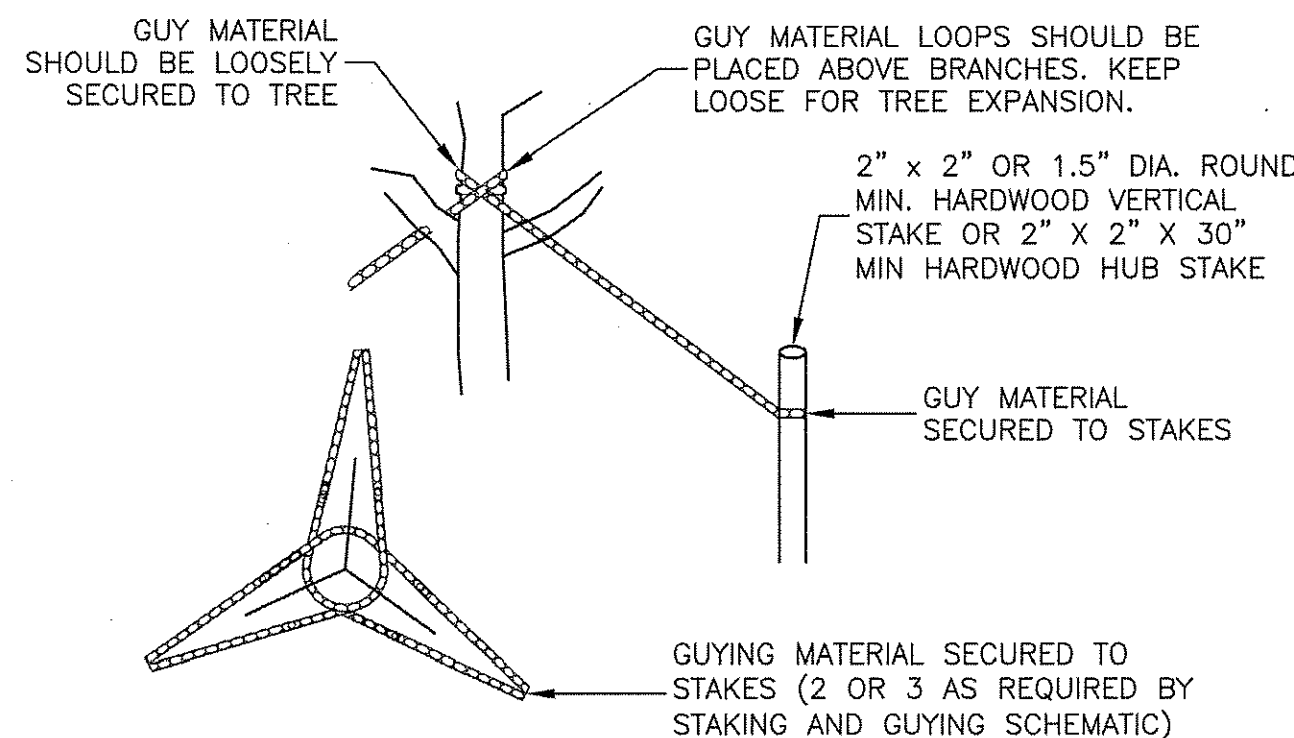


- NOTES:
- GUYING AND STAKING TO BE DETERMINED IN THE FIELD BY THE LANDSCAPE ARCHITECT. LOCAL FIELD CONDITIONS AS WELL AS PLANT CHARACTERISTICS WILL DETERMINE THE NECESSITY OF GUYING AND STAKING.
 - TYPICALLY ONLY TREES WITH A 3" OR GREATER CALIPER NEED TO BE STAKED. TREES WITH LESS THAN A 3" CALIPER 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		DRAWING NO.	L-1
2				DATE:	12/08
3				PAGE:	1

DECIDUOUS TREE PLANTING

1 DECIDUOUS TREE PLANTING
SCALE: NTS



- 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
1	NOTES	4.15		DRAWING NO.	L-2
2				DATE:	12/08
3				PAGE:	1

DECIDUOUS TREE - GUYING & STAKING

2 DECIDUOUS TREE GUYING AND STAKING
SCALE: NTS

REVISIONS
DATE DESCRIPTION

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CITY OF CONCORD STANDARD
PLANTING DETAILS INCLUDED
PER DIRECTION FROM
CITY OF CONCORD.

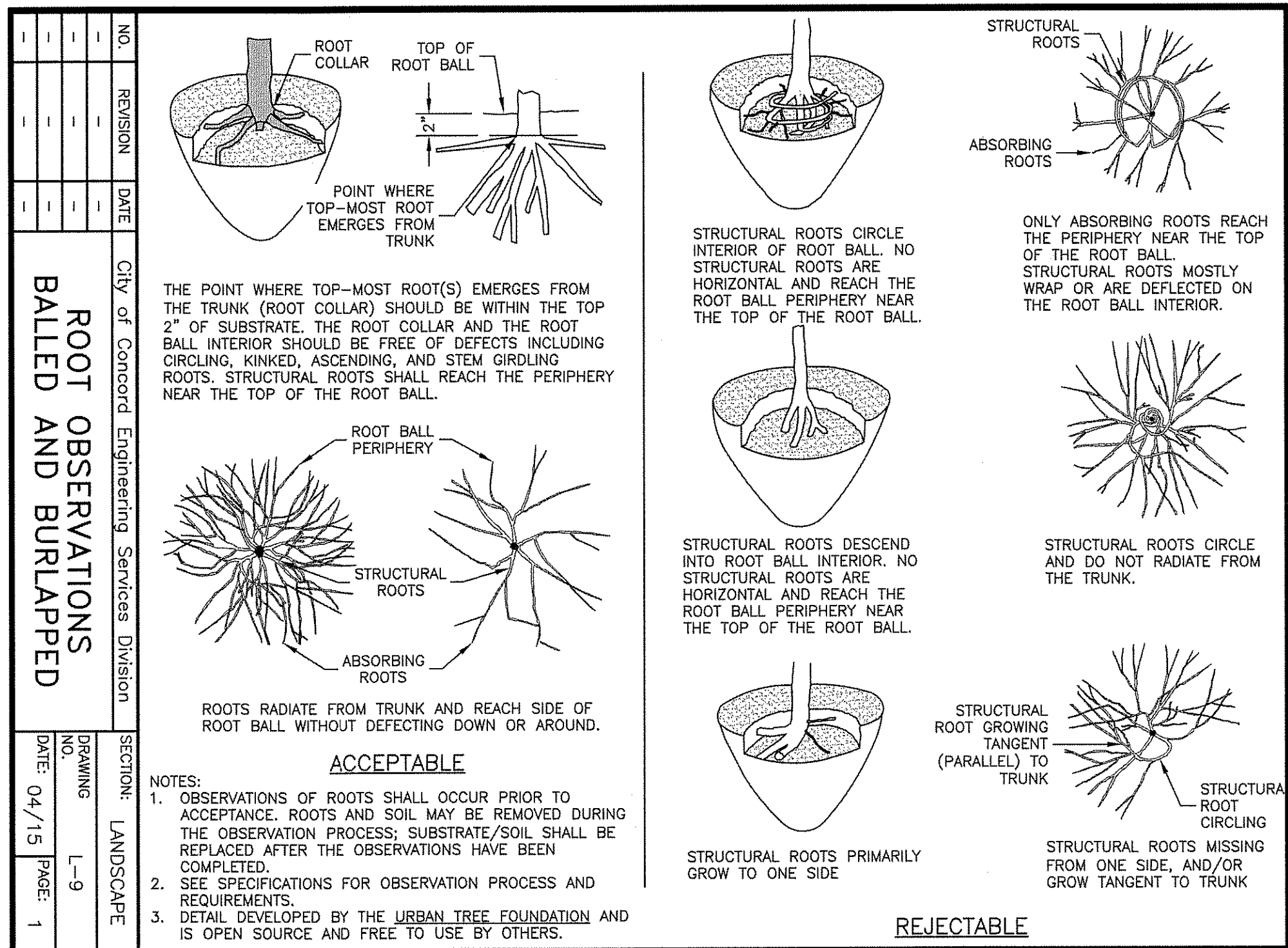
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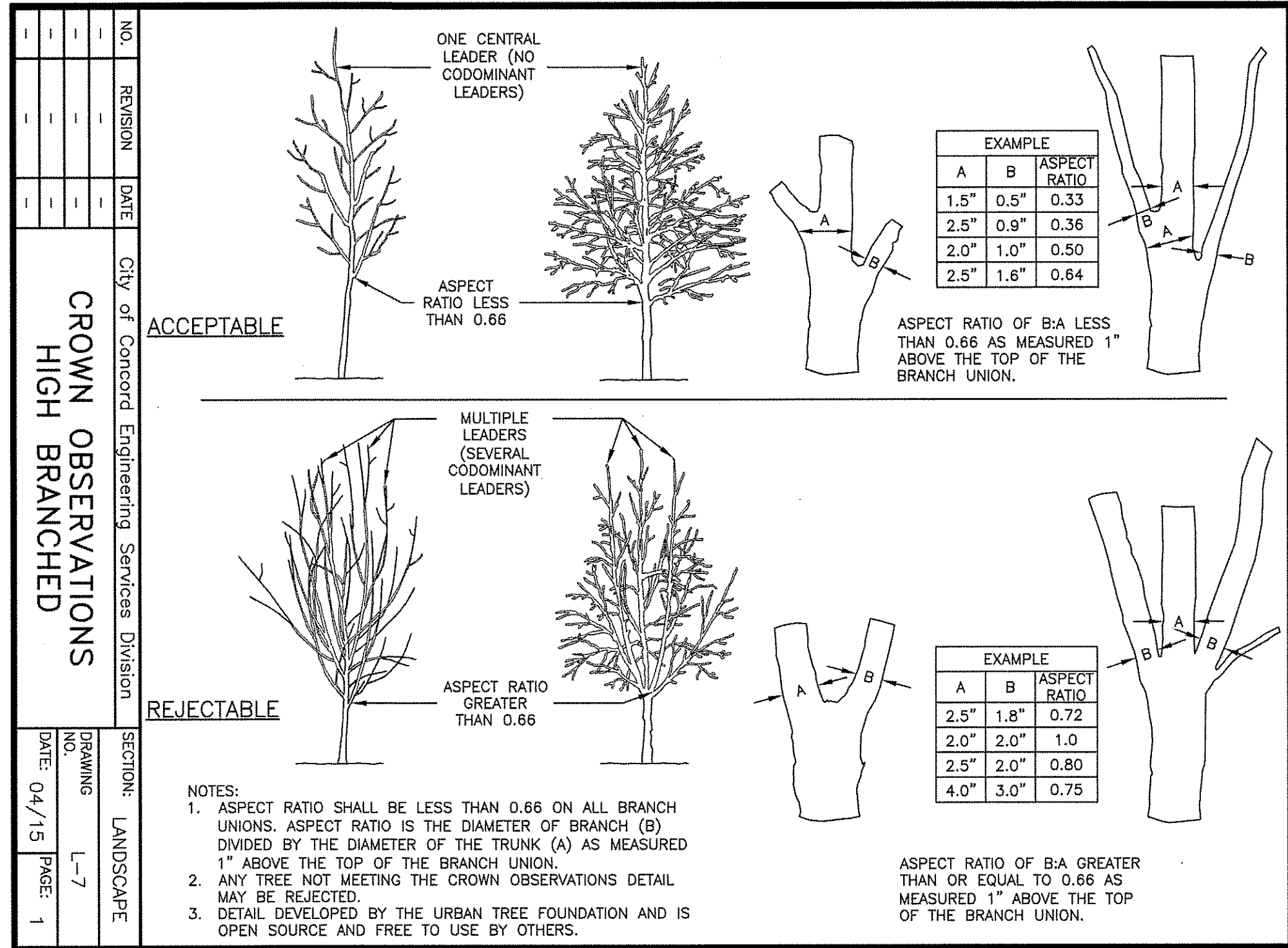
PLANTING DETAILS

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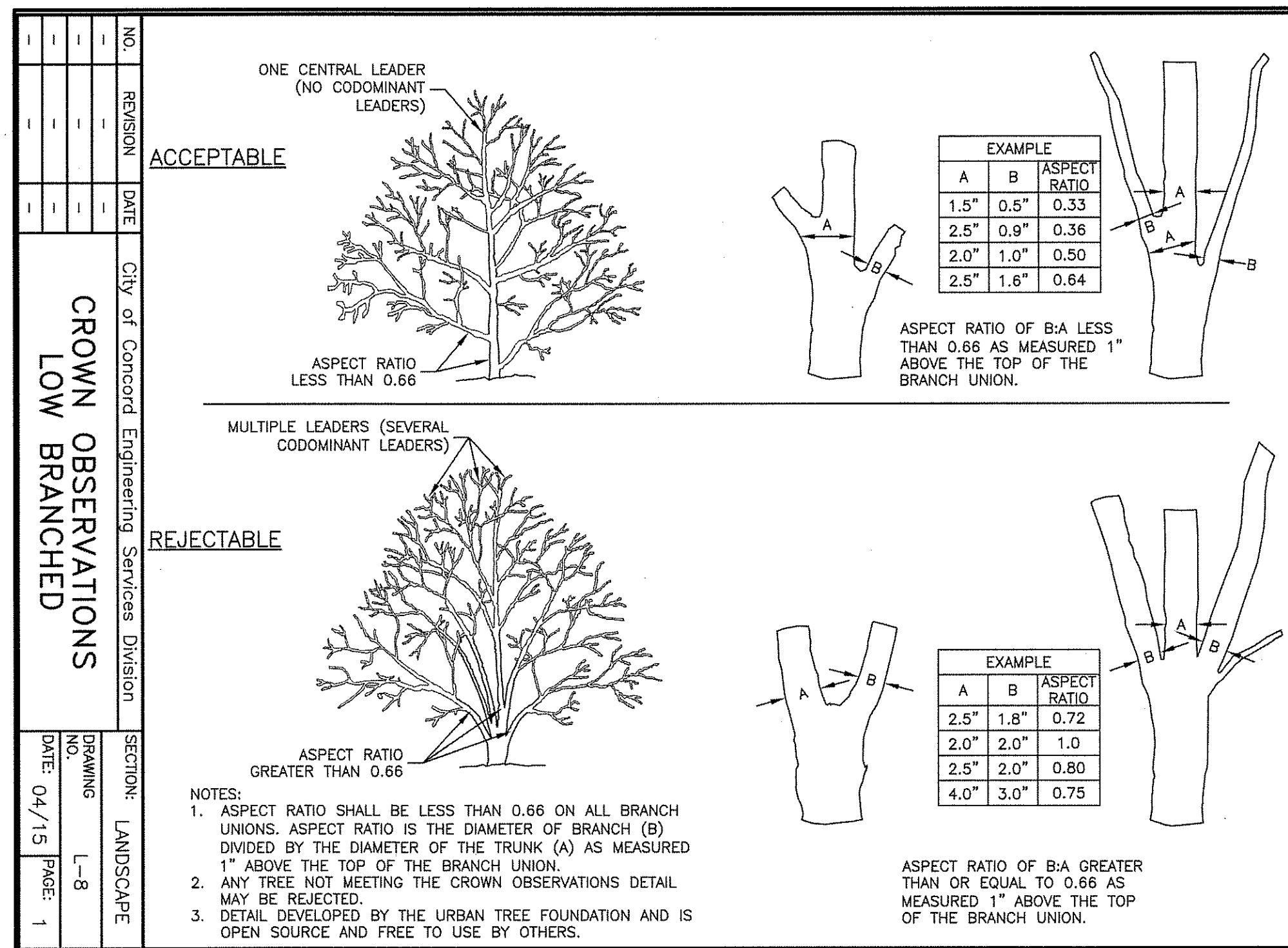
L5-7



3 ROOT OBSERVATIONS - BALLED AND BURLAPPED
SCALE: NTS



1 CROWN OBSERVATIONS - HIGH BRANCHED
SCALE: NTS



2 CROWN OBSERVATIONS - LOW BRANCHED
SCALE: NTS

REVISIONS	
#	DESCRIPTION

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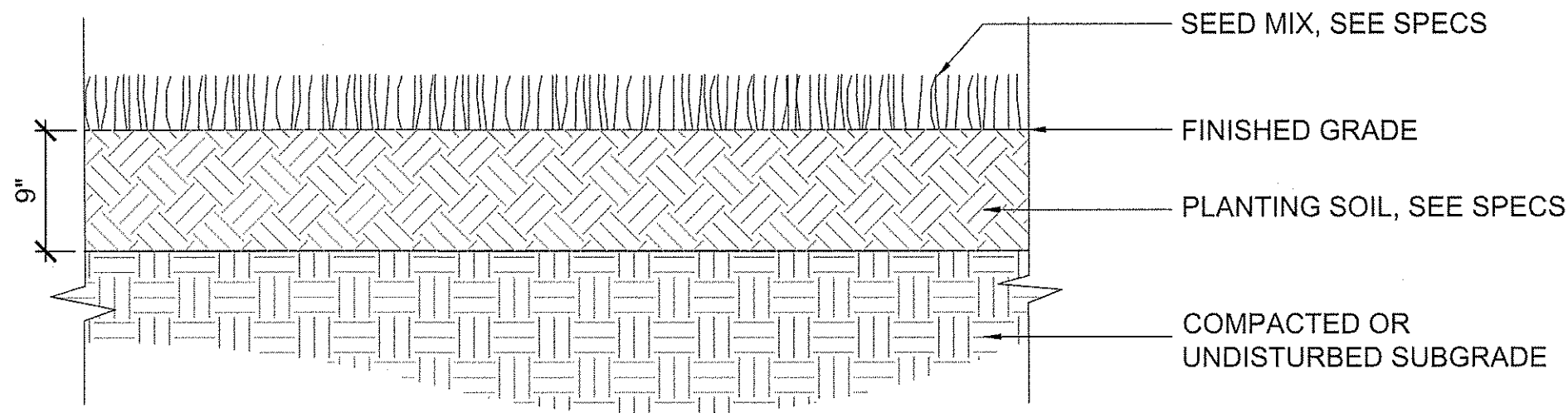


PLANTING DETAILS

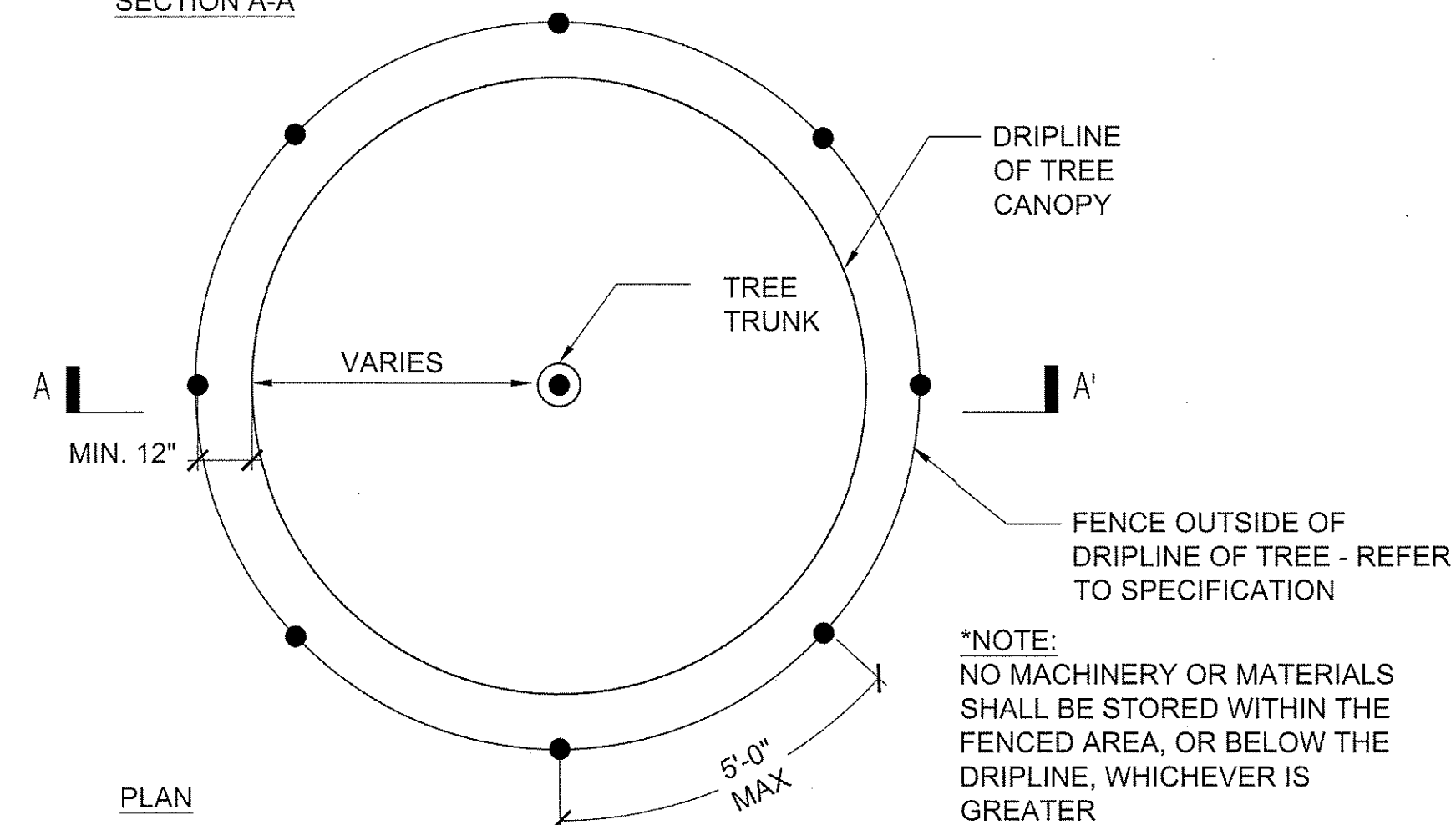
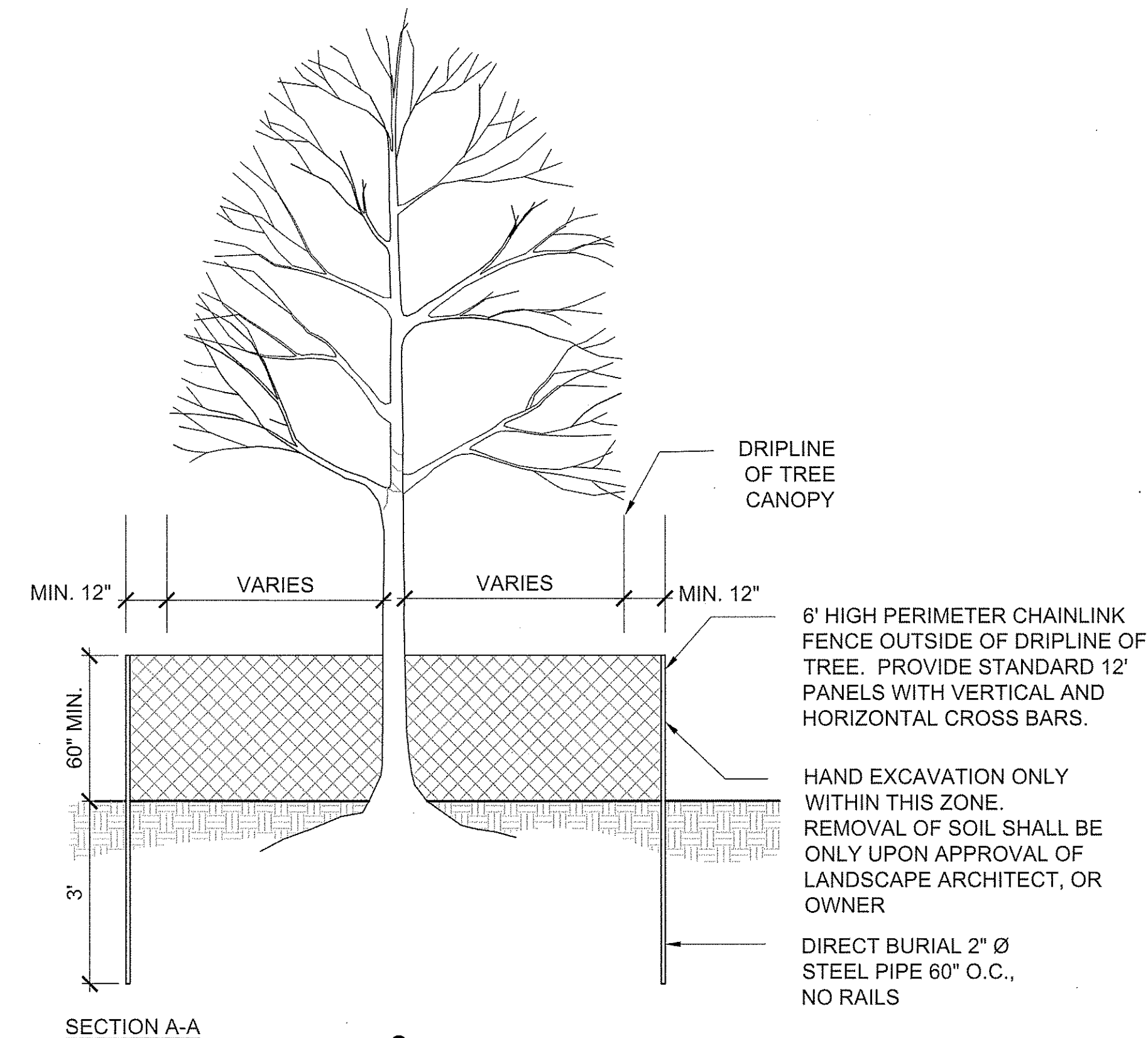
SCALE AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

L5-8

4376-33



1 SEEDED LANDSCAPES
SCALE: NTS



2 TREE PROTECTION FENCE
SCALE: NTS

REVISIONS		
#	DATE	DESCRIPTION

FLEISCHNER FAMILY ADMISSION CENTER



ST. PAUL'S SCHOOL

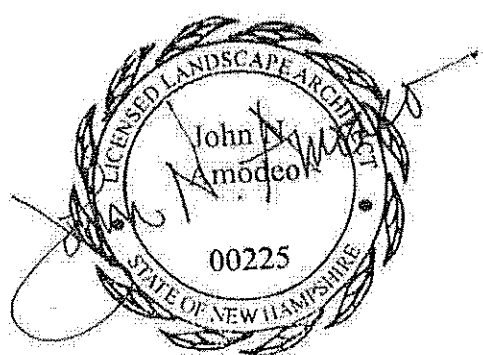
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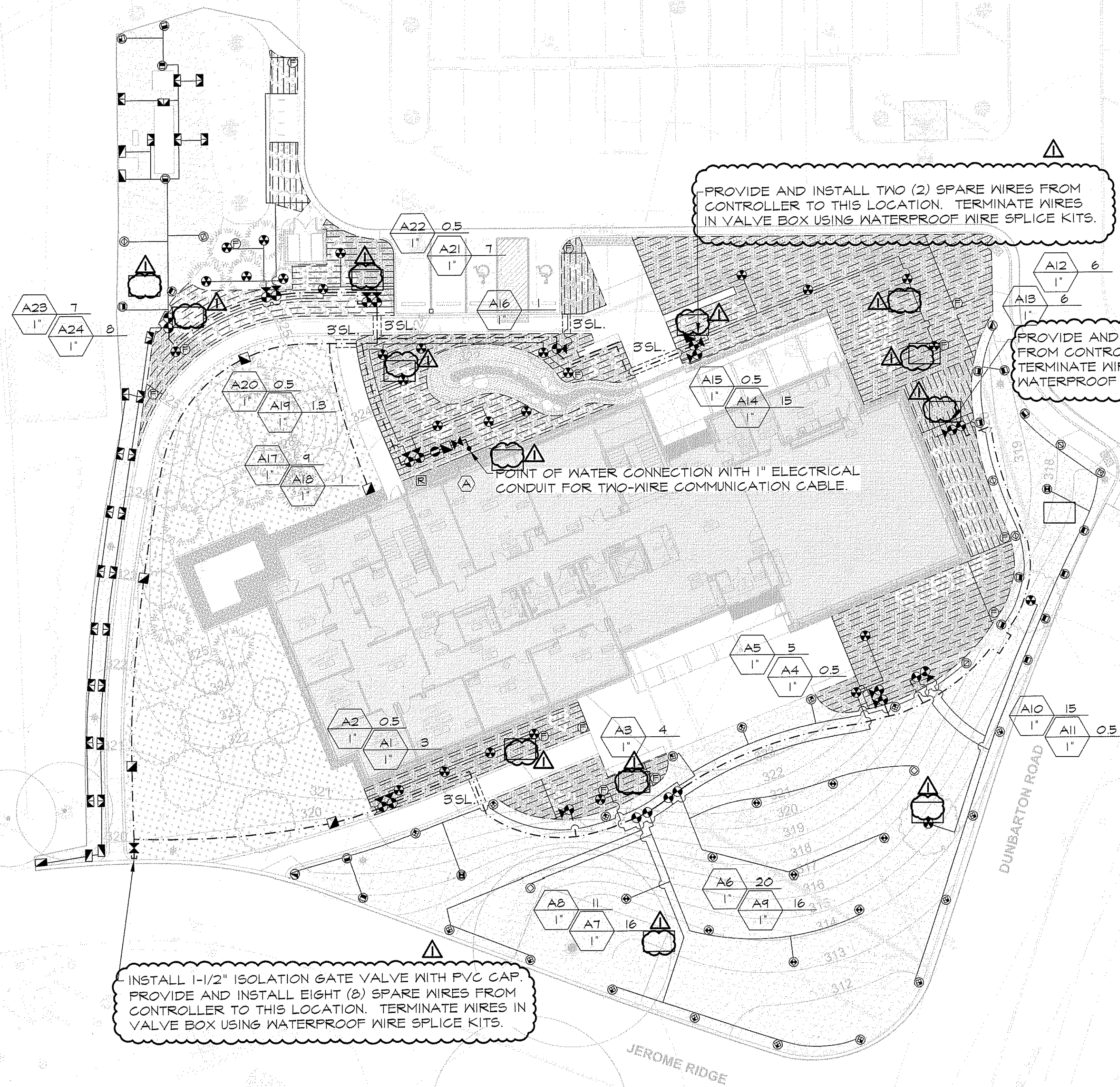
PLANTING DETAILS

SCALE: AS NOTED PROJECT # 229008.00 DATE ISSUED 06/30/2023

L5-9

4376-34

MATCHLINE, SEE 11.3-2



1 IRRIGATION PLAN

SCALE: 1" = 20'-0"

IRRIGATION LEGEND			
SYMBOL	PSI	SPACING	DESCRIPTION
	40	25'	MP3000 ROTARY NOZZLE ON FROS-06-FRS40-CV SPRINKLER
	40	18'	MP2000 ROTARY NOZZLE ON FROS-06-FRS40-CV SPRINKLER
	40	14'	MP1000 ROTARY NOZZLE ON FROS-06-FRS40-CV SPRINKLER
	40	14'	MPCORNER ROTARY NOZZLE ON FROS-06-FRS40-CV SPRINKLER
	40	5'x30'	MP55530 ROTARY NOZZLE ON FROS-06-FRS40-CV SPRINKLER
	40	5'x15'	MPL65515 ROTARY NOZZLE ON FROS-06-FRS40-CV SPRINKLER
	40	5'x15'	MPR65515 ROTARY NOZZLE ON FROS-06-FRS40-CV SPRINKLER
	45	12"x18"	IN-LINE EMITTER DRIP TUBING

	1" 24 VOLT ELECTRIC ZONE VALVE (SEE VALVE DESIGNATOR FOR FLOWS)
	1-1/2" ISOLATION GATE VALVE
	1" QUICK COUPLING VALVE
	AUTOMATIC FLUSHING VALVE
	1" 24 VOLT ELECTRIC ZONE VALVE WITH DISK FILTER (DRIP) (SEE VALVE DESIGNATOR FOR FLOWS)
	CLASS-200 PVC LATERAL PIPING (SEE LATERAL PIPE SCHEDULE)
	1-1/2" CLASS-200 PVC MAINLINE PIPING
	3" CLASS-160 PVC PIPE SLEEVE, INSTALL SCH-40 PVC WIRE CONDUIT ADJACENT TO ALL MAINLINE PIPE SLEEVES, MINIMUM WIRE CONDUIT SIZE TO BE 2-INCH, SEE SLEEVING DETAIL.
	AUTOMATIC RAIN SENSOR
	MOISTURE SENSOR
	AUTOMATIC CONTROLLER
	MASTER VALVE AND FLOW SENSOR
	LIGHTNING SURGE ARRESTER WITH GROUND

VALVE DESIGNATION:	
	STATION NO.
	FLOW
	VALVE SIZE

- ## IRRIGATION NOTES
- COORDINATE FINAL LOCATION OF ALL DRIP TUBING, SPRINKLERS AND NOZZLE SELECTION WITH FINAL APPROVED LANDSCAPE.
 - PIPE AND VALVE LOCATIONS ARE DIAGRAMMATIC, CONTRACTOR SHALL FIELD VERIFY.
 - VALVES AND VALVE BOXES SHALL BE PLACED, WHERE POSSIBLE, IN PLANTED AREAS UNDER MULCH.
 - INSTALL ALL PIPING AS FAR FROM TREES AND ROOT BALLS AS POSSIBLE WHILE MAINTAINING SPRINKLER AND DRIP TUBE SPACING.
 - CONTROL WIRE SHALL BE #14 GAUGE SINGLE STRAND, RED FOR TURF ZONES AND ORANGE FOR DRIP, ALL COMMON WIRE SHALL BE #14 GAUGE SINGLE STRAND WHITE AND ALL SPARE WIRES, INSTALLED WHERE SHOWN, SHALL BE #14 GAUGE SINGLE STRAND BLUE.
 - QUICK COUPLING VALVES SHALL BE INSTALLED ON 1 INCH PVC SWING JOINTS WITH BRASS INSERTS AND STABILIZERS. (SEE DETAIL)
 - SPRINKLERS SHALL BE INSTALLED ON SWING PIPE ASSEMBLIES, MINIMUM LENGTH TO BE 6 INCHES, 18 INCH MAXIMUM.
 - IRRIGATION SYSTEM IS DESIGNED FOR SEPARATE WATER SUPPLY TO PROVIDE 25 GPM MAX FROM NEW 1-1/2-INCH SERVICE SYSTEM TO PRODUCE 60-PSI DYNAMIC PRESSURE AT IRRIGATION CONTRACTOR'S POINT OF CONNECTION IN LANDSCAPED AREA.
 - CONTRACTOR SHALL TEST DYNAMIC PRESSURE BEFORE STARTING WORK, REPORT ANY DEVIATION FROM PRESSURE REQUIRED TO OWNER'S REPRESENTATIVE BEFORE CONTINUING.
 - INSTALL CONTROLLER IN MECHANICAL ROOM 116 AS DIRECTED BY OWNER'S REPRESENTATIVE, HARD WIRE TO 120 VOLT, DEDICATED 20 AMP CIRCUIT, BUILDING POWER SUPPLY USING LICENSED ELECTRICIAN. ROUTE TWO-WIRE COMMUNICATION CABLE TO CONTROLLER VIA 1-INCH CONDUIT.
 - INSTALL RAIN SENSOR ON EXTERIOR BUILDING WALL WHERE DIRECTED BY OWNER'S REPRESENTATIVE. EXTERIOR RAIN SENSOR WIRING SHALL BE CONTAINED IN 1/2 INCH METALLIC CONDUIT, SECURED TO OUTSIDE OF BUILDING WALL.
 - ABOVE GROUND WIRING, INSIDE AND OUTSIDE OF BUILDING, SHALL BE INSTALLED IN RIGID, METALLIC CONDUIT FOR VANDALISM PROTECTION.
 - COORDINATE LOCATION OF EXISTING AND FUTURE UTILITIES ON SITE AND CONTACT PROPER AUTHORITIES AND UTILITY COMPANIES BEFORE THE START OF WORK.
 - IN-LINE DRIP TUBING TO BE INSTALLED 6" FROM ALL MASONRY WALLS, PLANTER SIDE WALLS, AND CURBING, ON AN 18" CENTER TO CENTER ROW SPACING.
 - FLUSH ALL LATERAL LINES BEFORE INSTALLING IN-LINE DRIP TUBING OR SPRINKLERS.
 - STAKE IN-LINE DRIP TUBING AT MINIMUM 5 FOOT INTERVALS TO PREVENT MOVEMENT.
 - IN-LINE DRIP TUBING TO BE INSTALLED 4" BELOW GRADE UNDER MULCH. NO DRIPPER LINE TUBING SHALL BE VISIBLE.
 - INSTALL MANUAL FLUSH PORTS AT LOWEST POINT OF PVC EXHAUST HEADER, GENERALLY WHERE SHOWN ON THE DRAWINGS.
 - SPRINKLERS FOR TURF SHALL HAVE 6 INCH POP UP HEIGHT.
 - CONTRACTOR MUST SUBMIT SHOP DRAWINGS AS PER THE WRITTEN SPECIFICATIONS TO THE IRRIGATION CONSULTANT FOR APPROVAL PRIOR TO ORDERING MATERIAL AND BEGINNING WORK.
 - ANY AND ALL MATERIAL SUBSTITUTIONS WHICH VARY FROM THE SPECIFIED PRODUCTS MUST BE SUBMITTED TO THE IRRIGATION CONSULTANT FOR APPROVAL AS PART OF THE SUBMITTAL PROCESS.
 - ONCE APPROVED SUBMITTALS HAVE BEEN RETURNED TO THE CONTRACTOR, WORK MAY BEGIN. THE IRRIGATION CONSULTANT MUST BE NOTIFIED A MINIMUM OF 7-DAYS IN ADVANCE OF THE START OF WORK TO COORDINATE ON-SITE SUPERVISION AND ADMINISTRATION.
 - SEE IRRIGATION DETAILS AND SPECIFICATIONS SECTION FOR ADDITIONAL NECESSARY INFORMATION.

LATERAL PIPE SCHEDULE	
FLOW	PIPE SIZE / TYPE
0-12 GPM	1 INCH 100 PSI POLYETHYLENE OR CLASS-200 PVC
12-22 GPM	1-1/4 INCH 100 PSI POLYETHYLENE OR CLASS-200 PVC

REVISIONS		
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1	08/04/23	ADDENDUM 2

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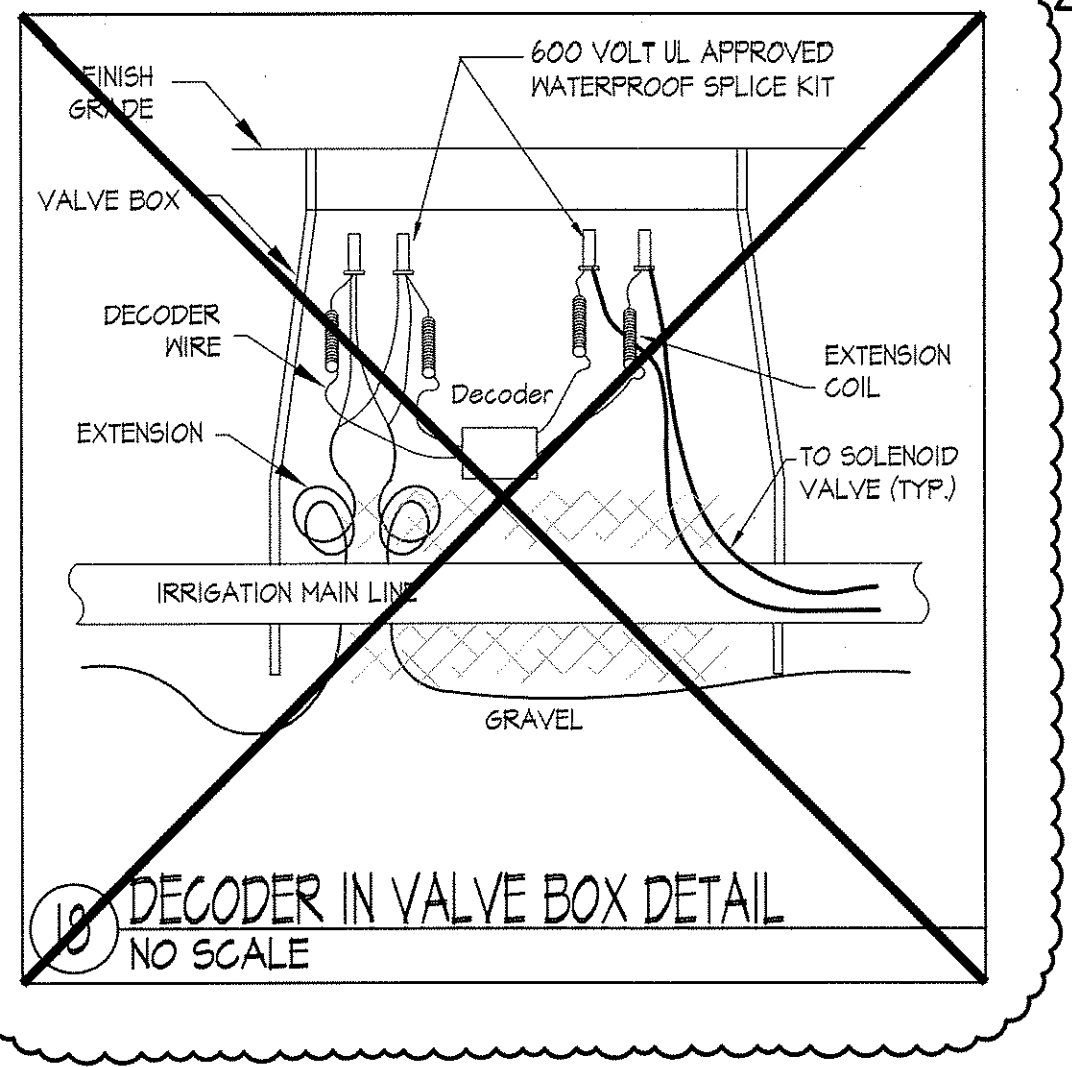
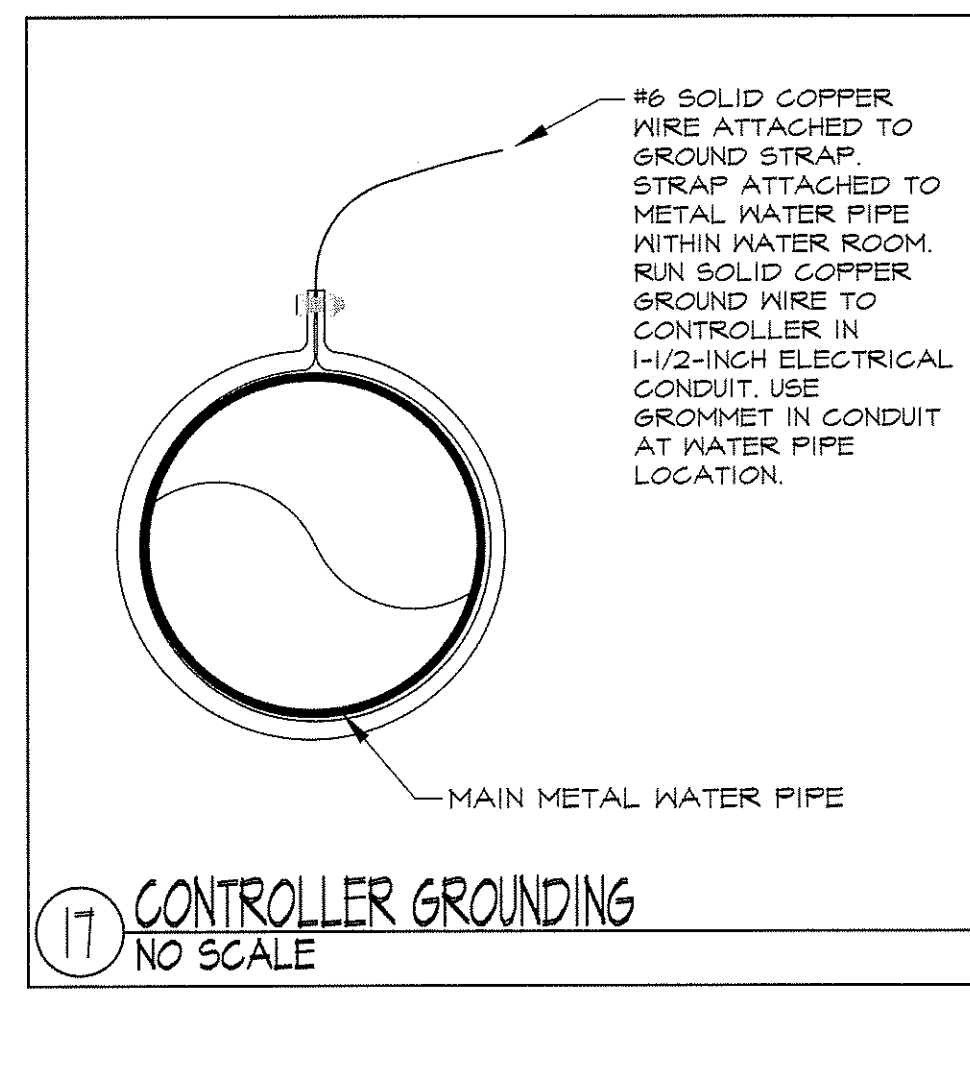
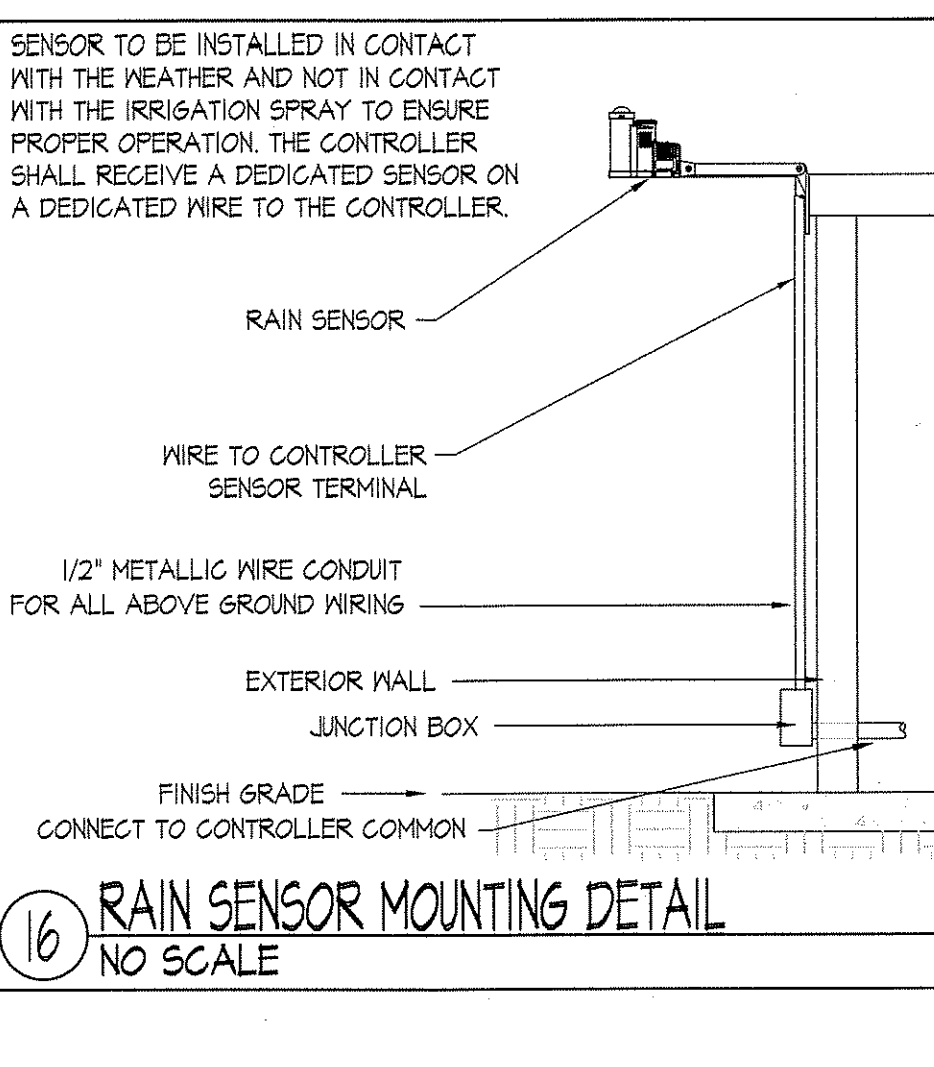
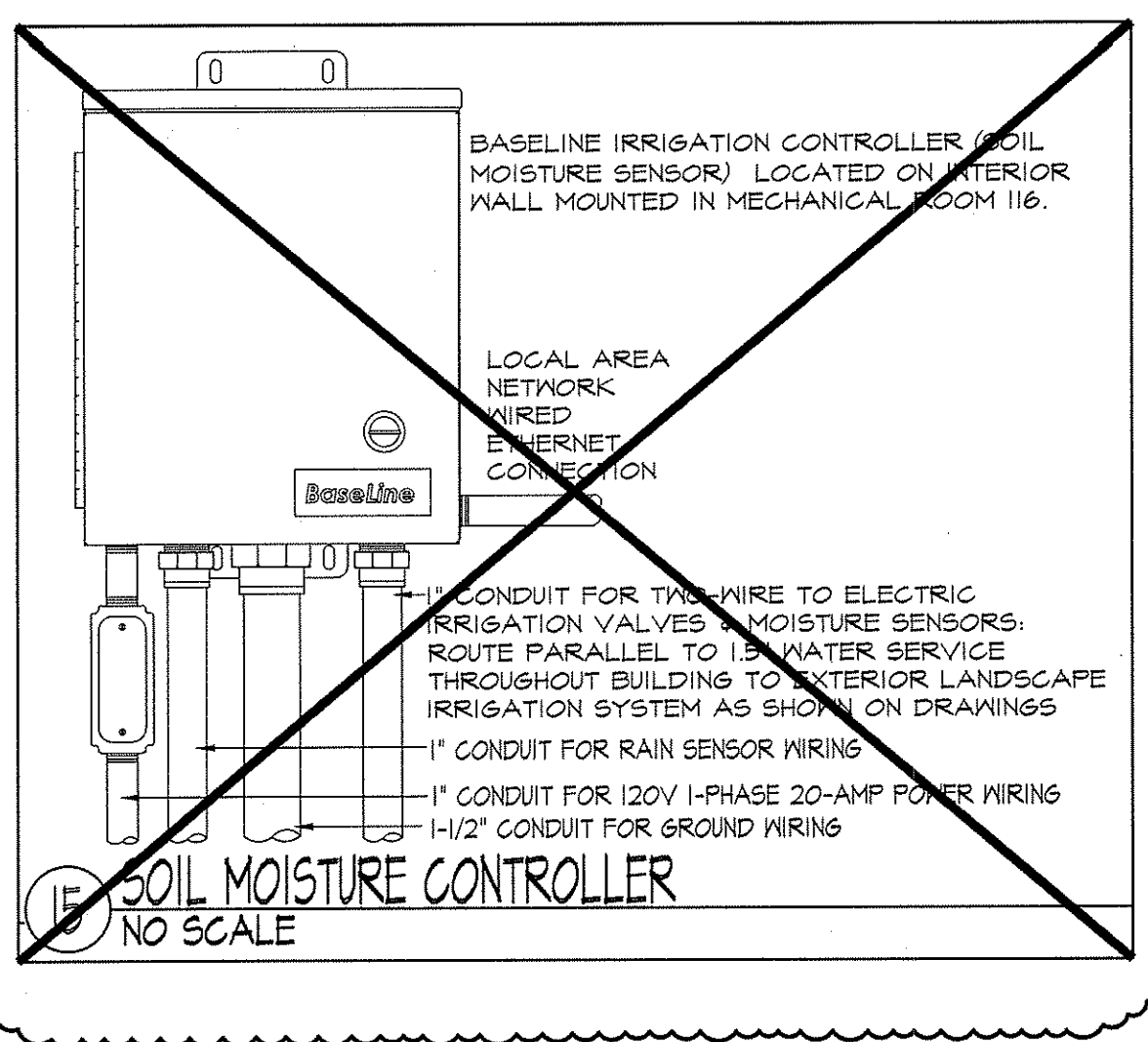
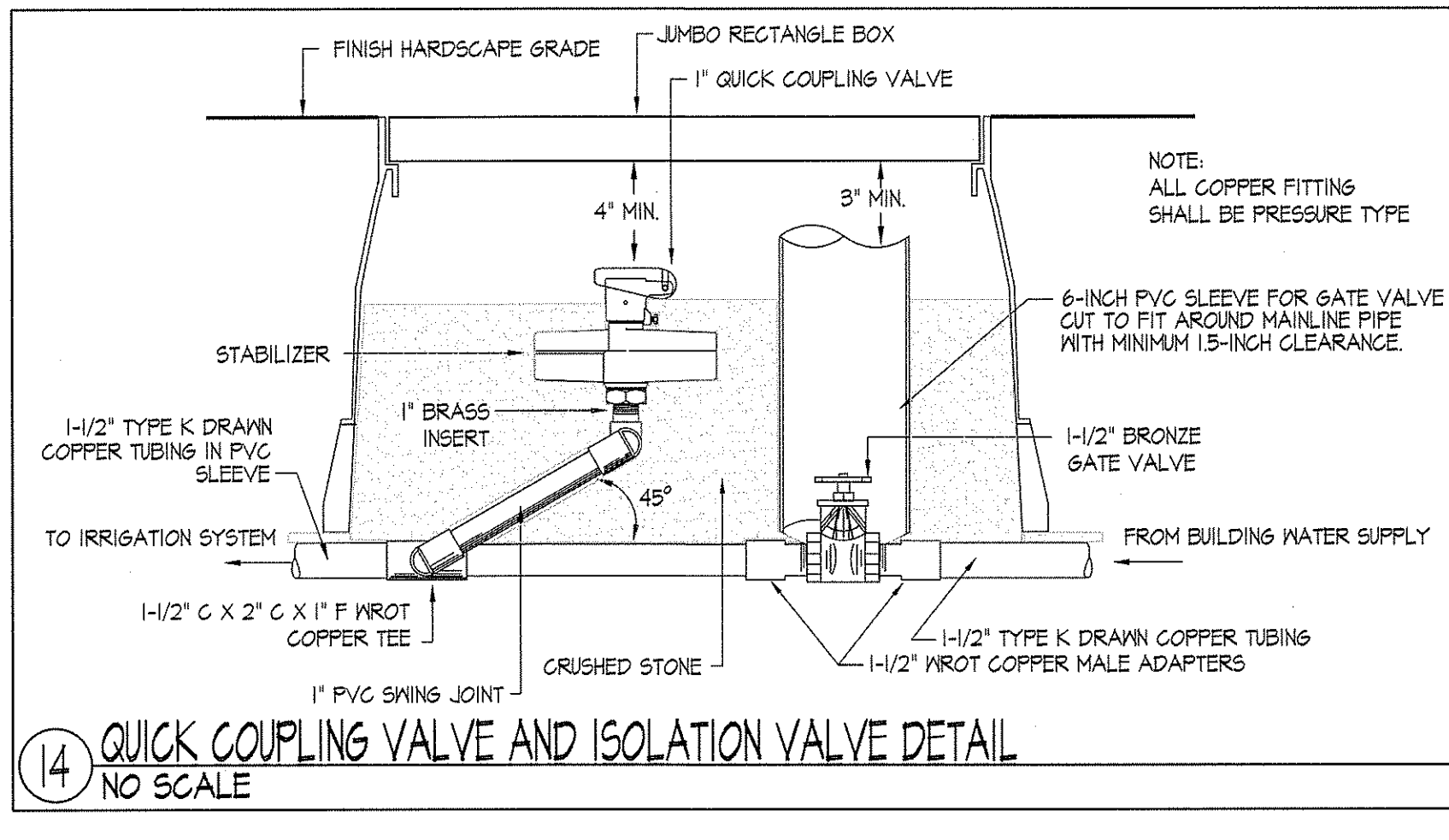
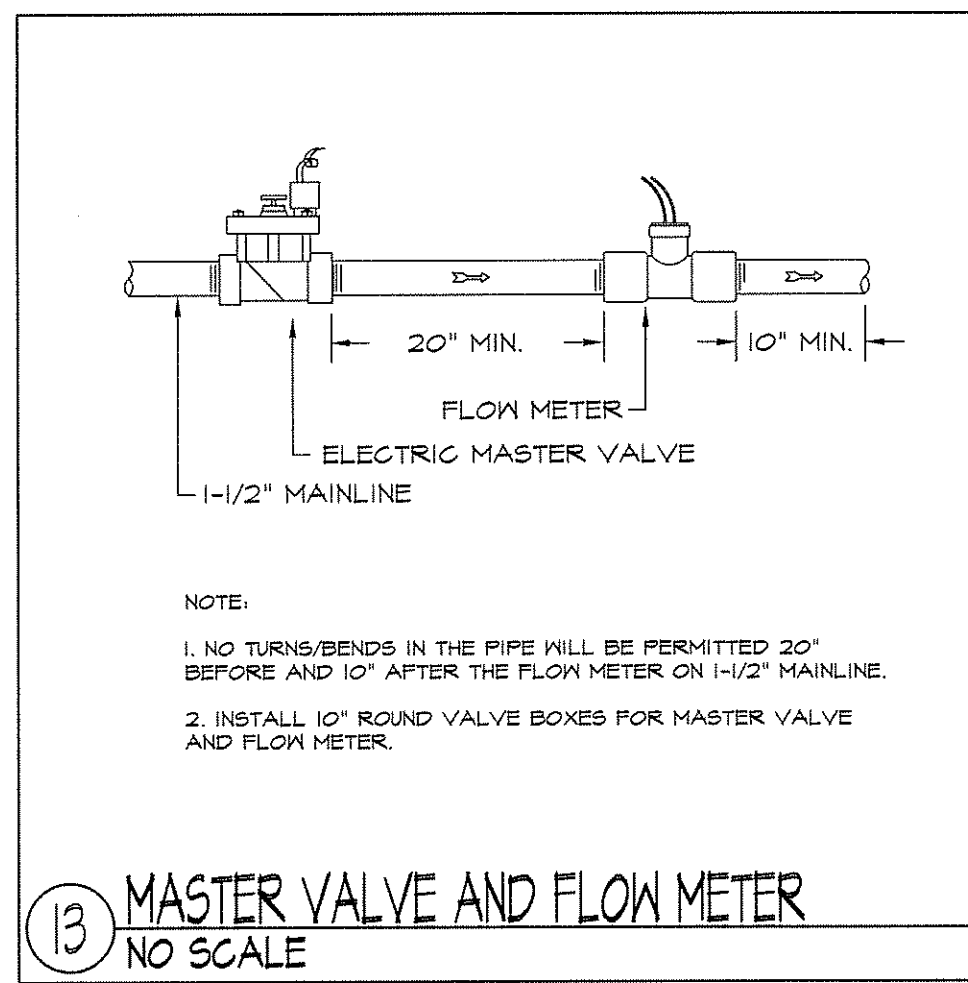
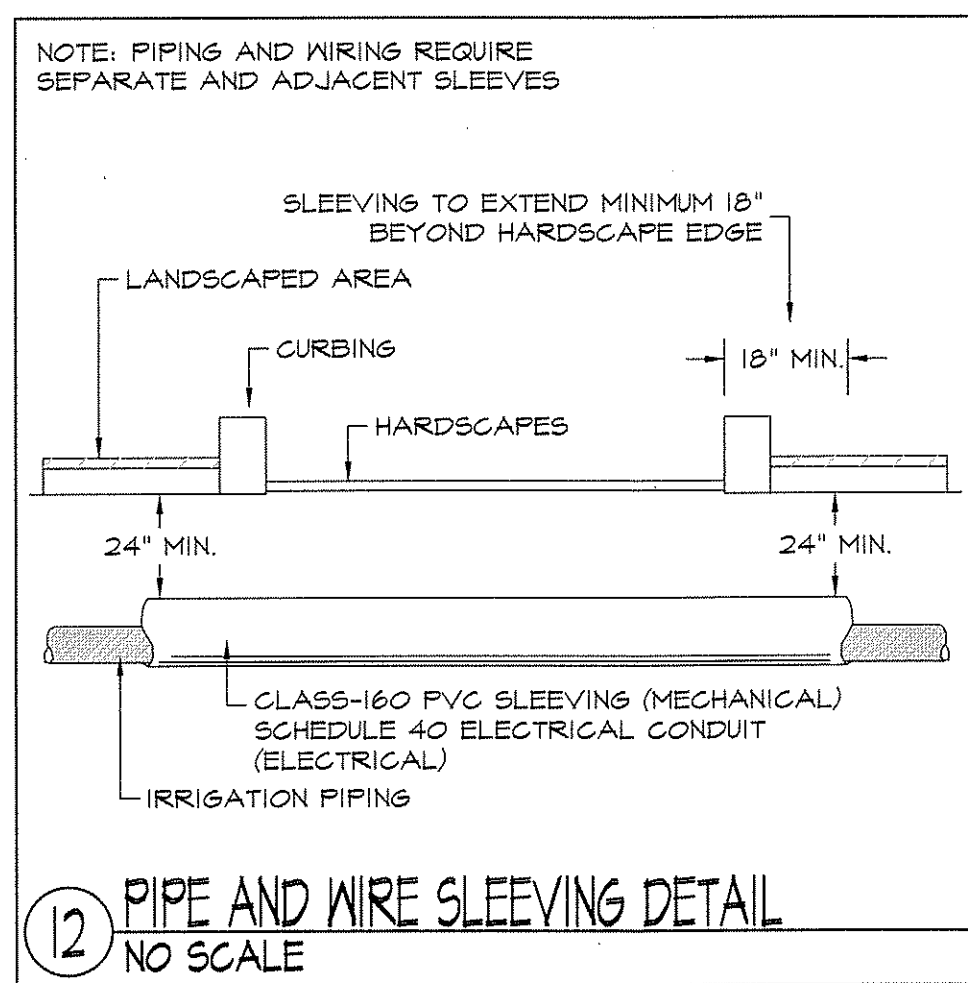
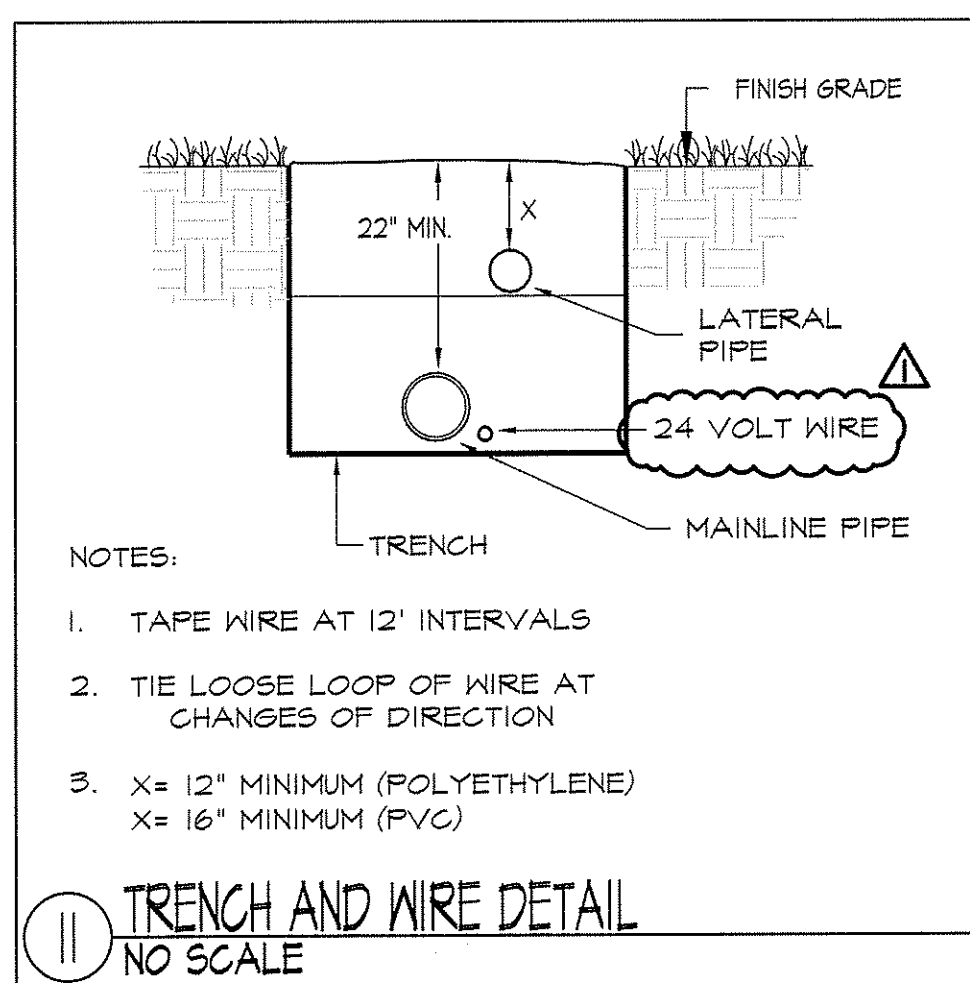
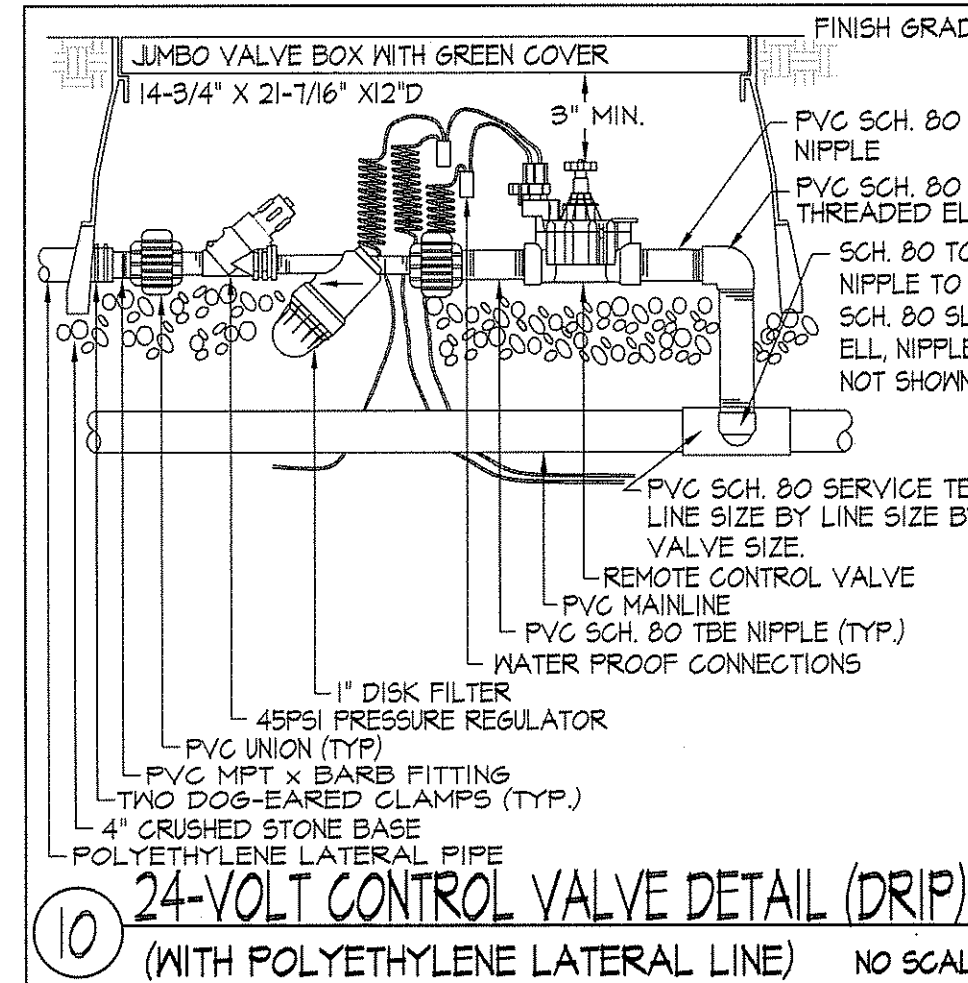
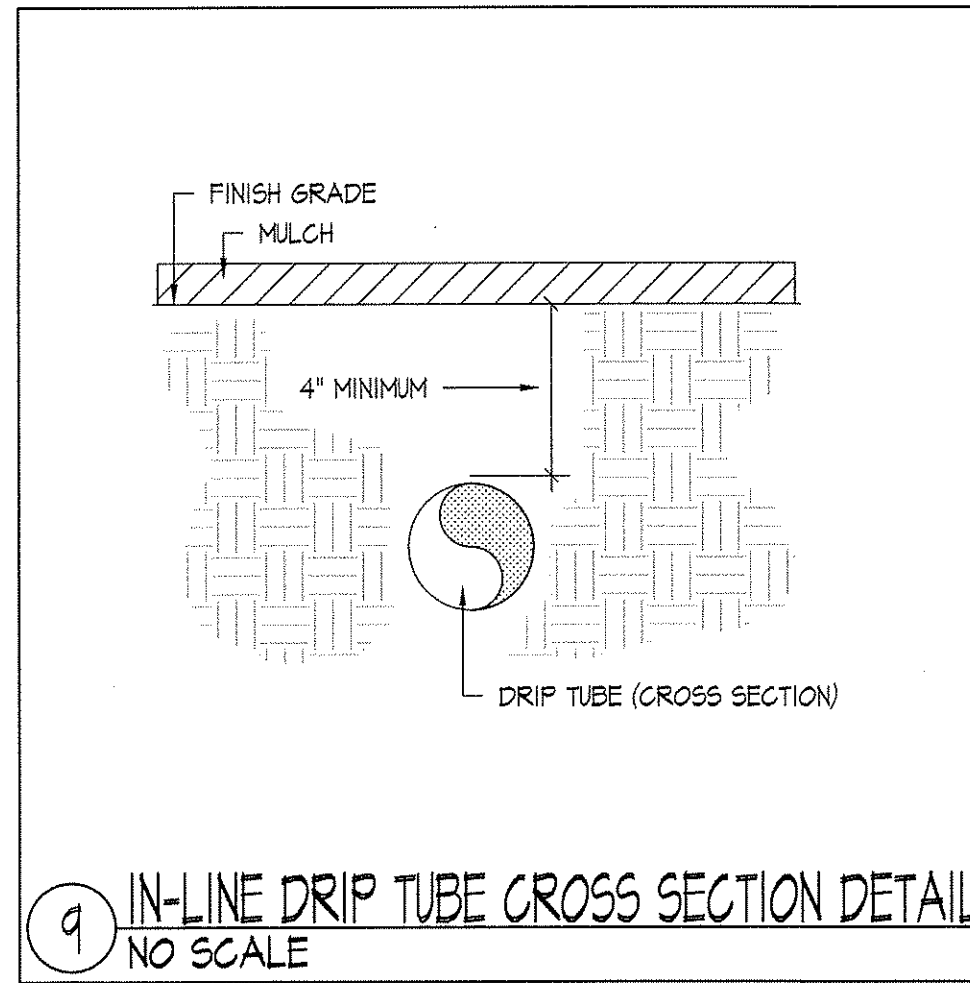
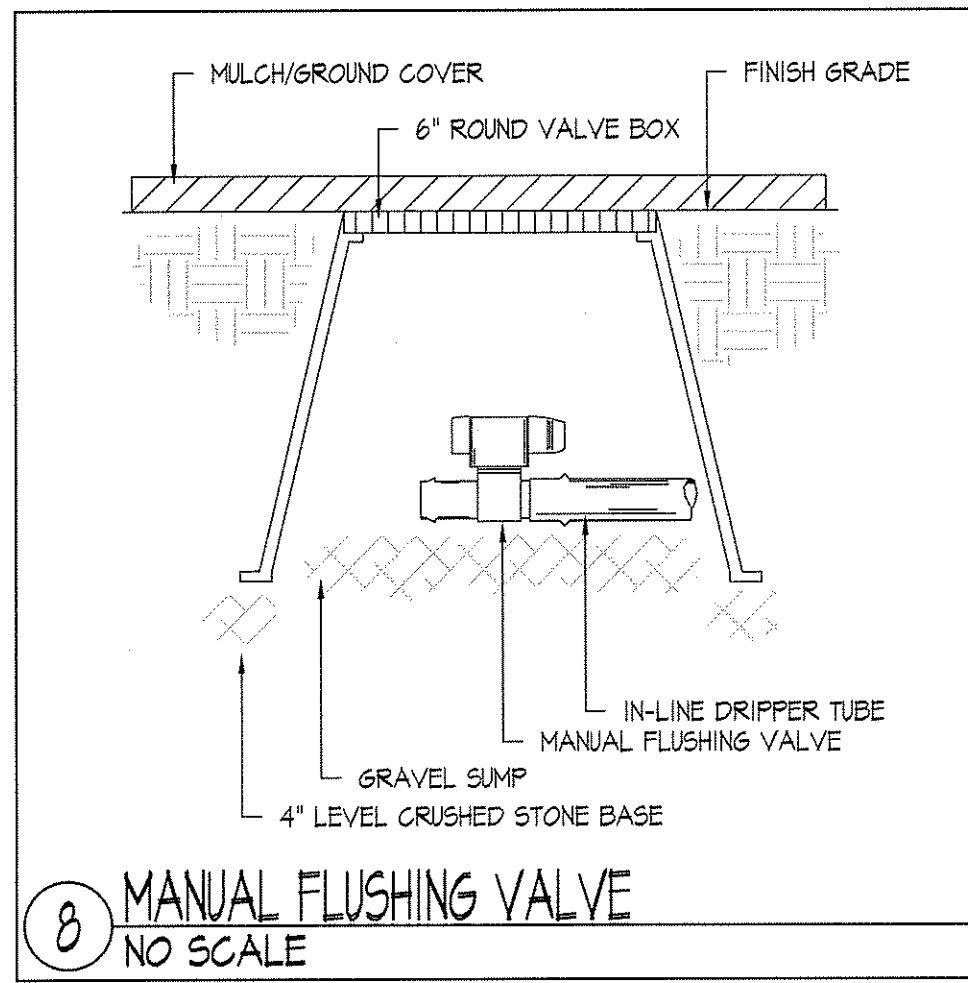
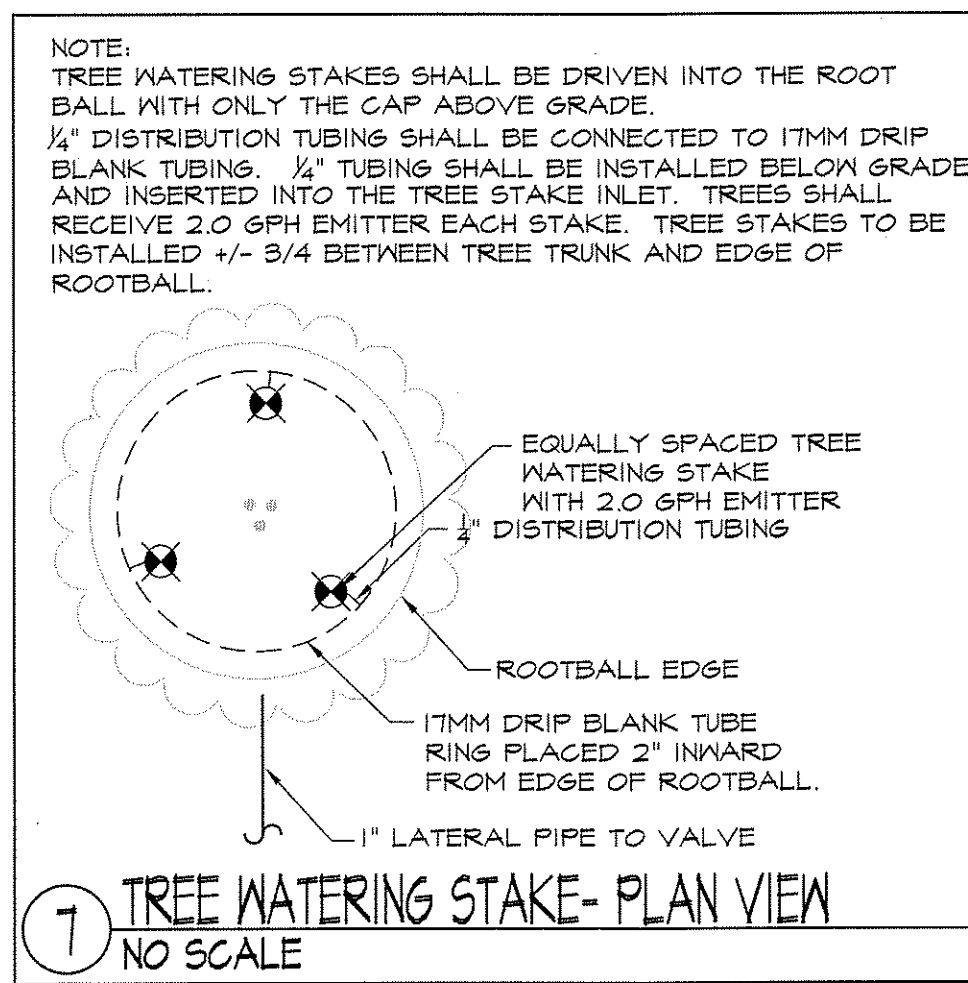
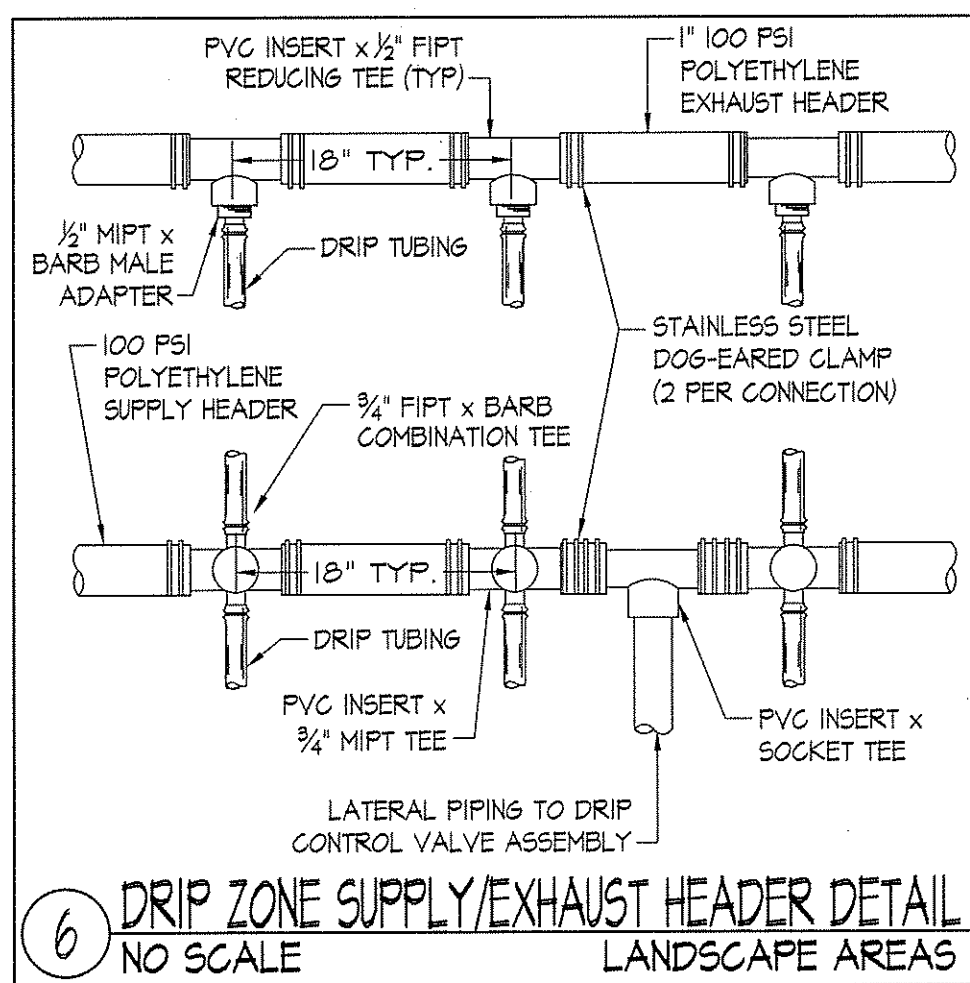
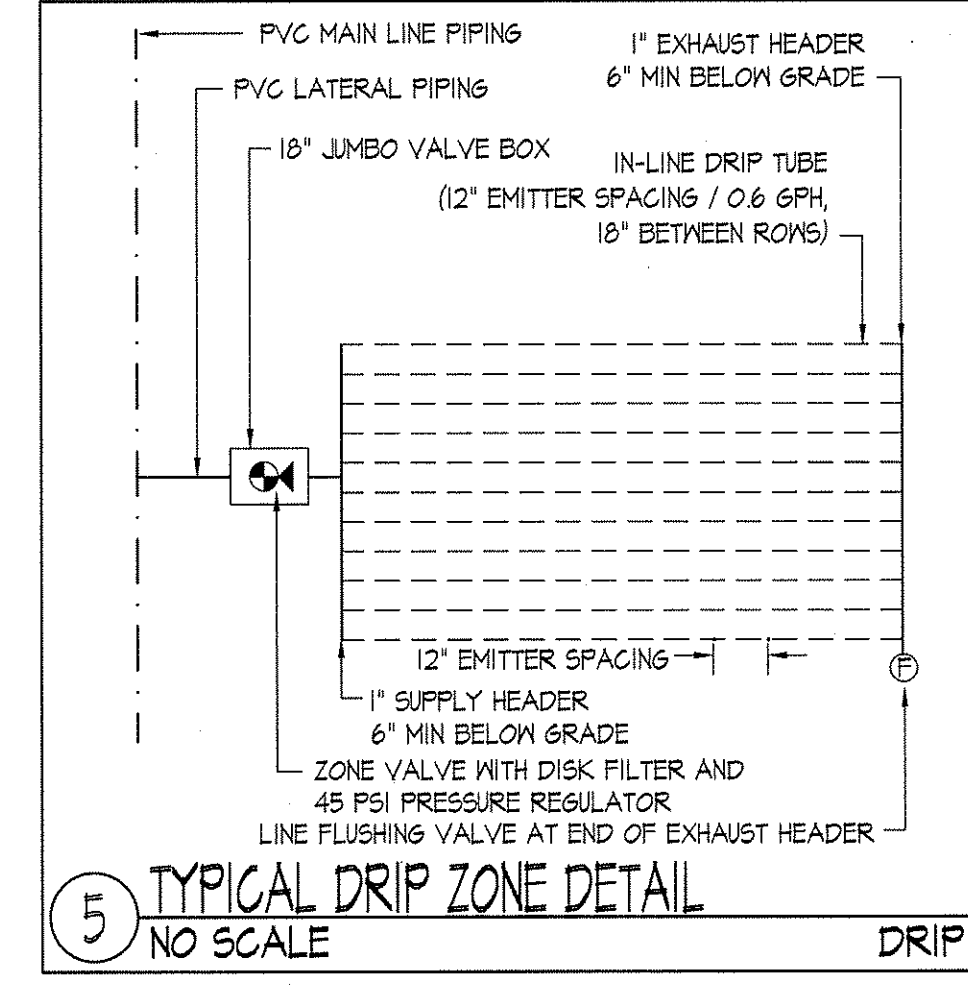
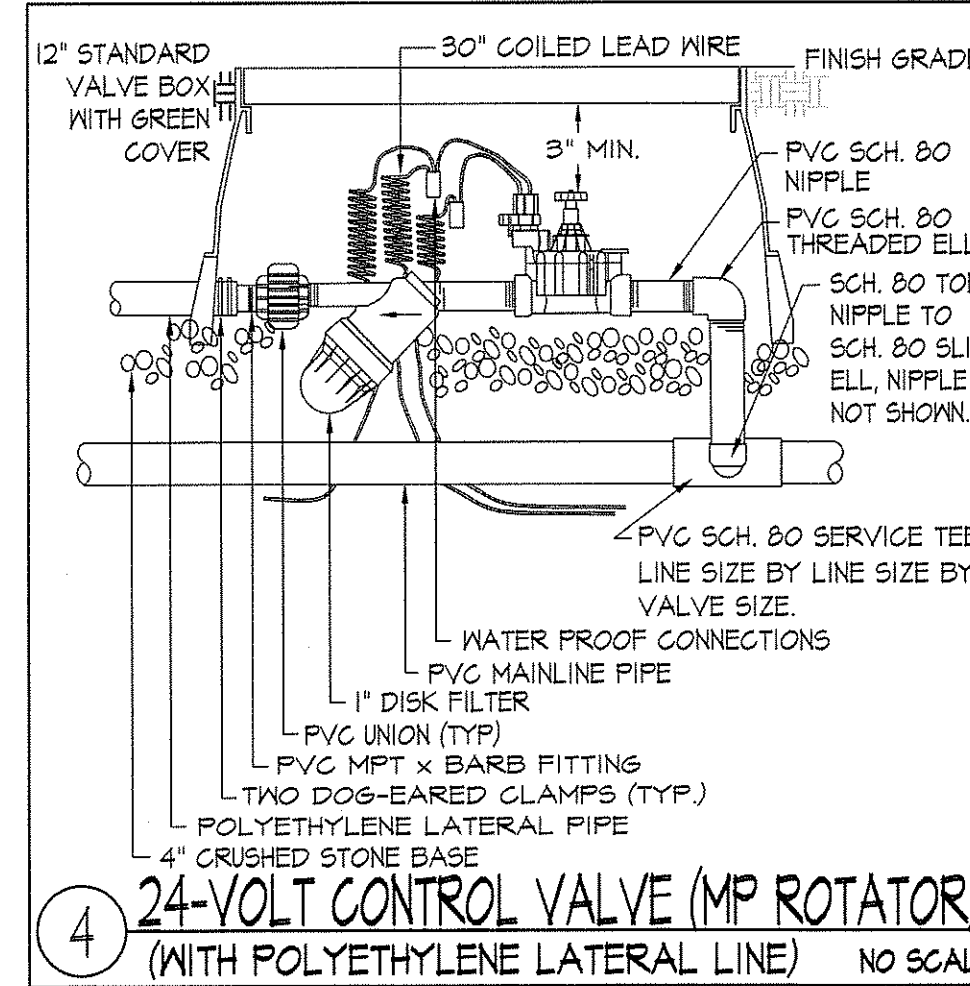
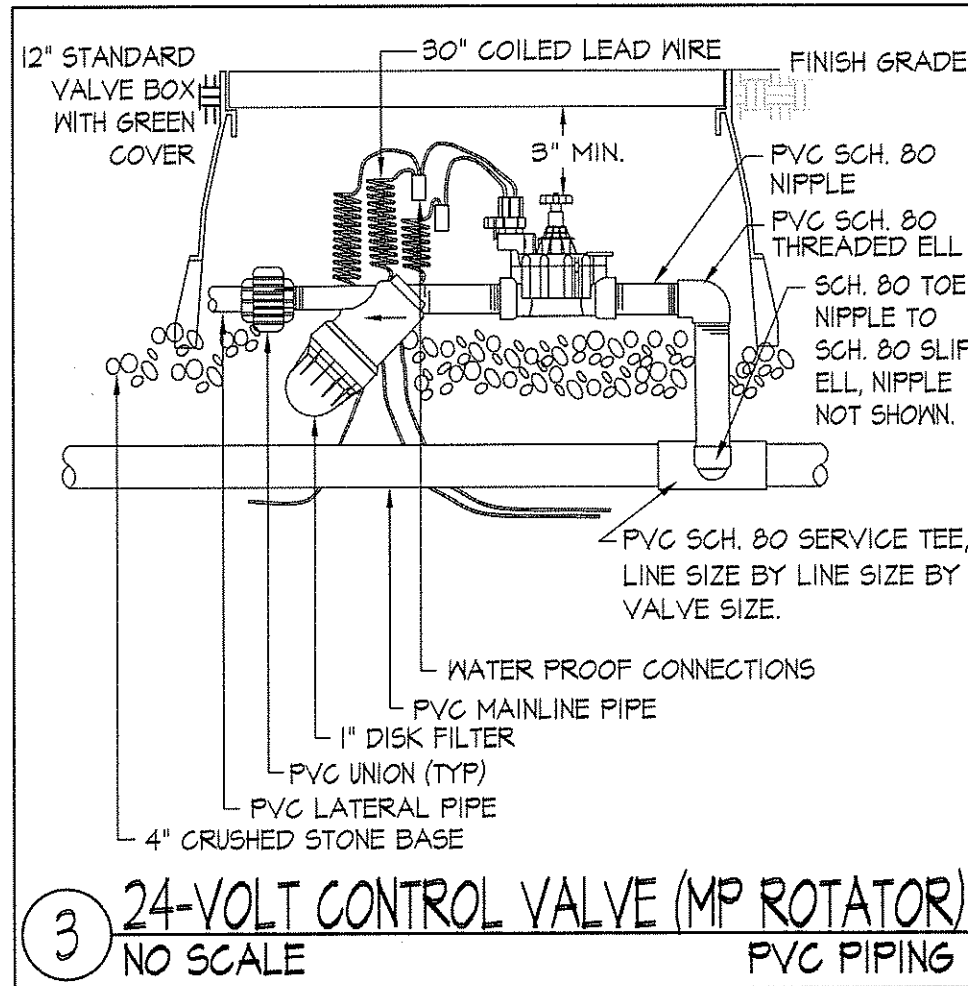
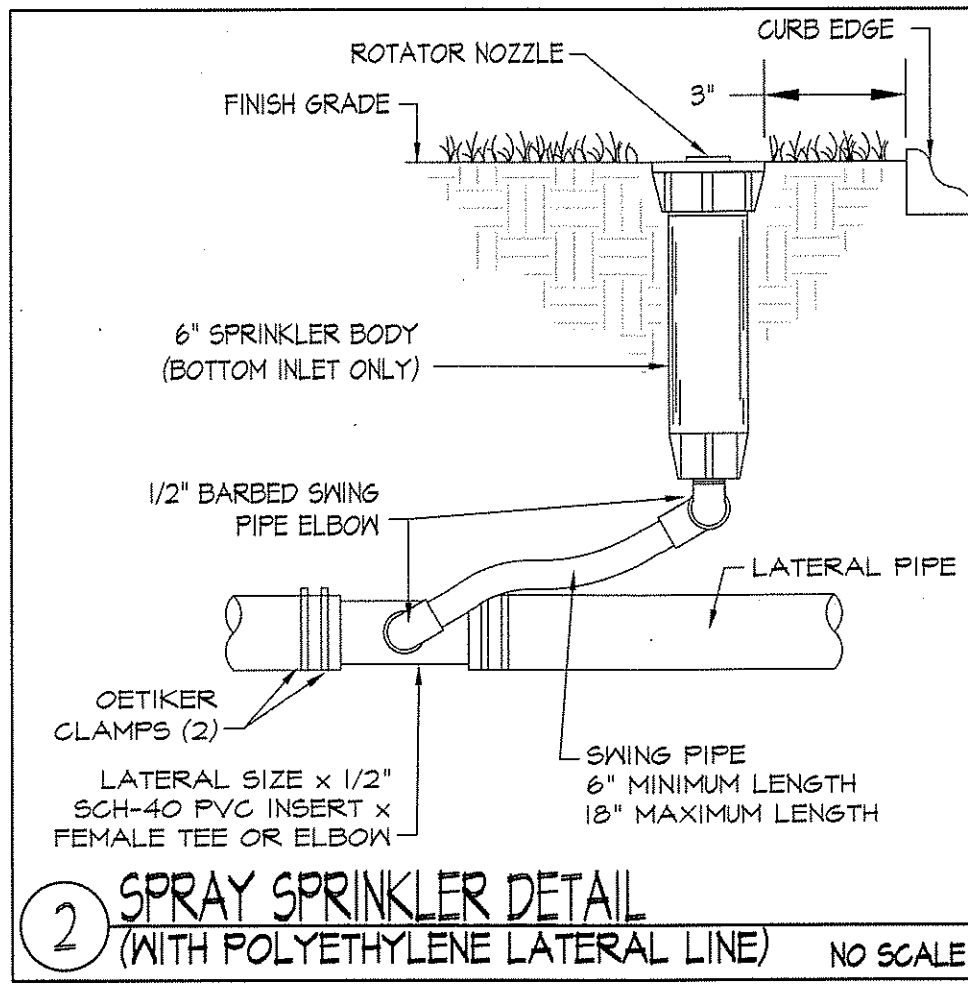
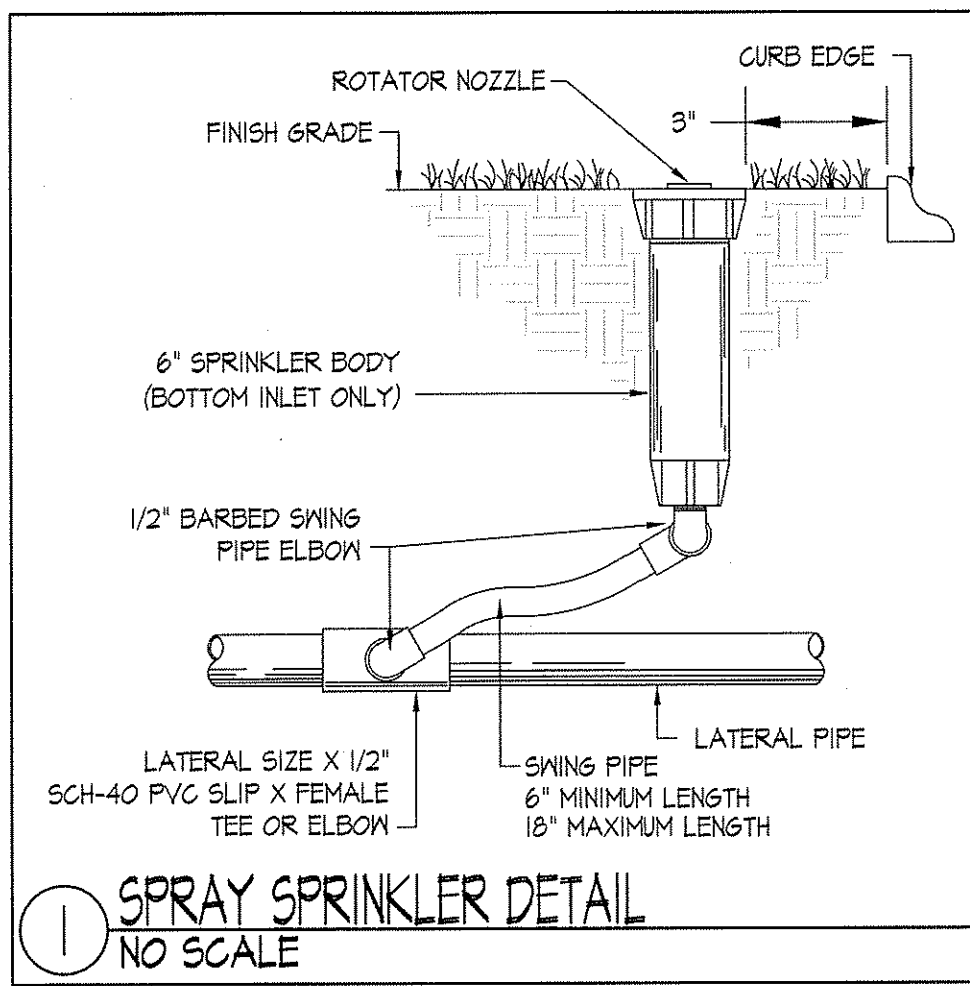


IRRIGATION PLAN

SCALE 1" = 20'-0" PROJECT # 229008.00 DATE ISSUED 08/30/2023

11-1

4376-35



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1	08/04/23	ADDENDUM 2

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IRRIGATION DETAILS

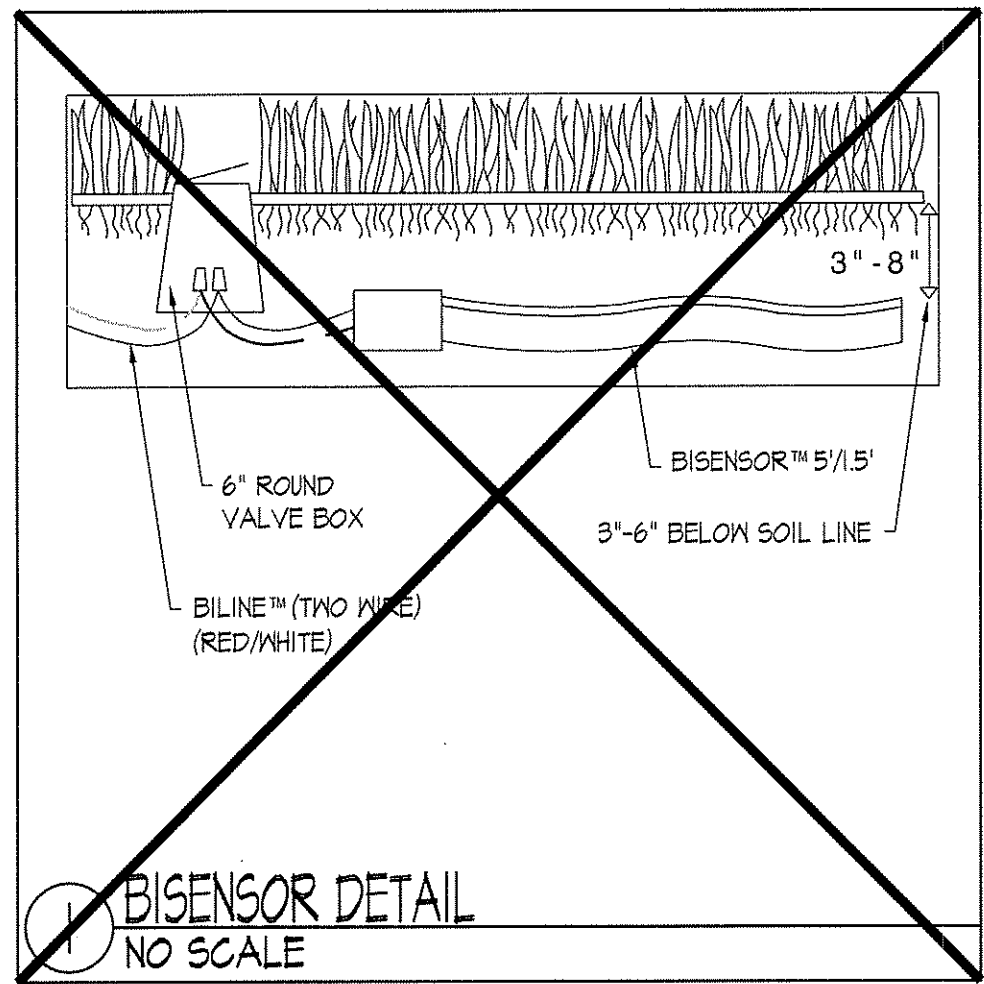
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PROJECT #
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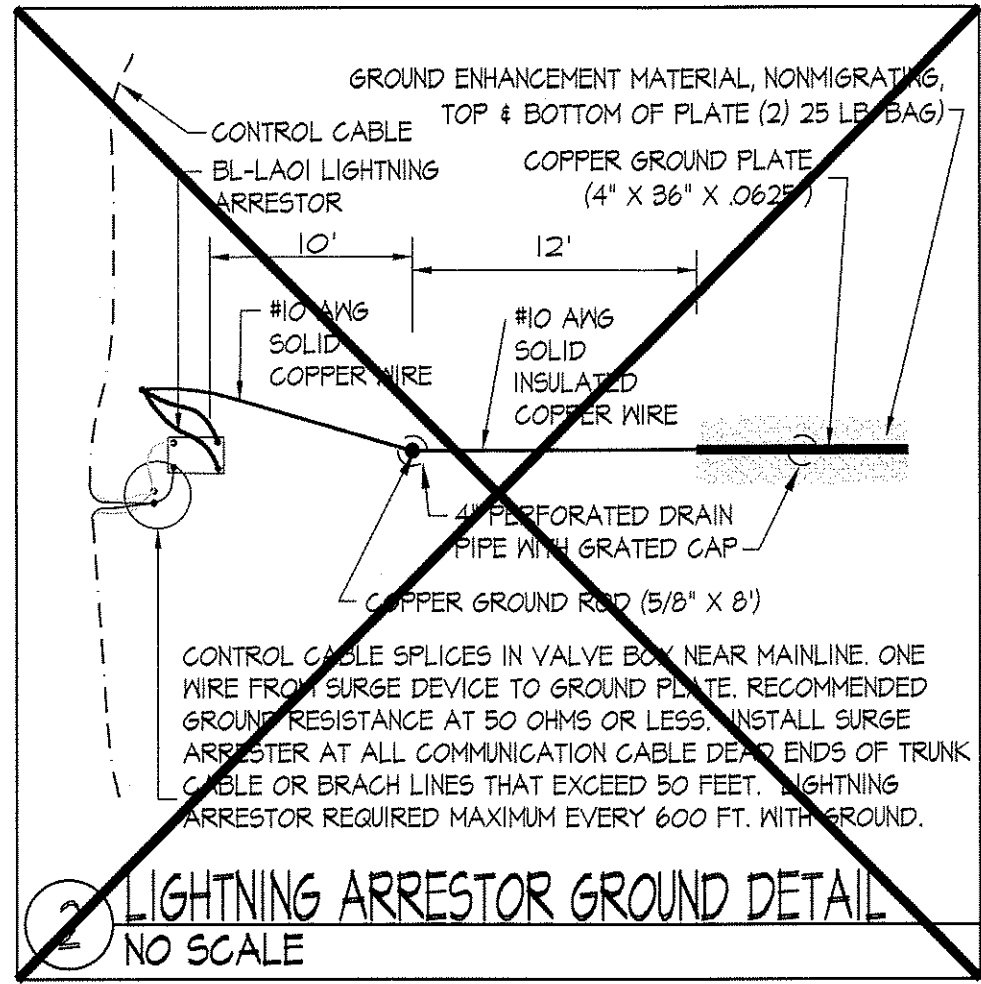
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06/30/2023

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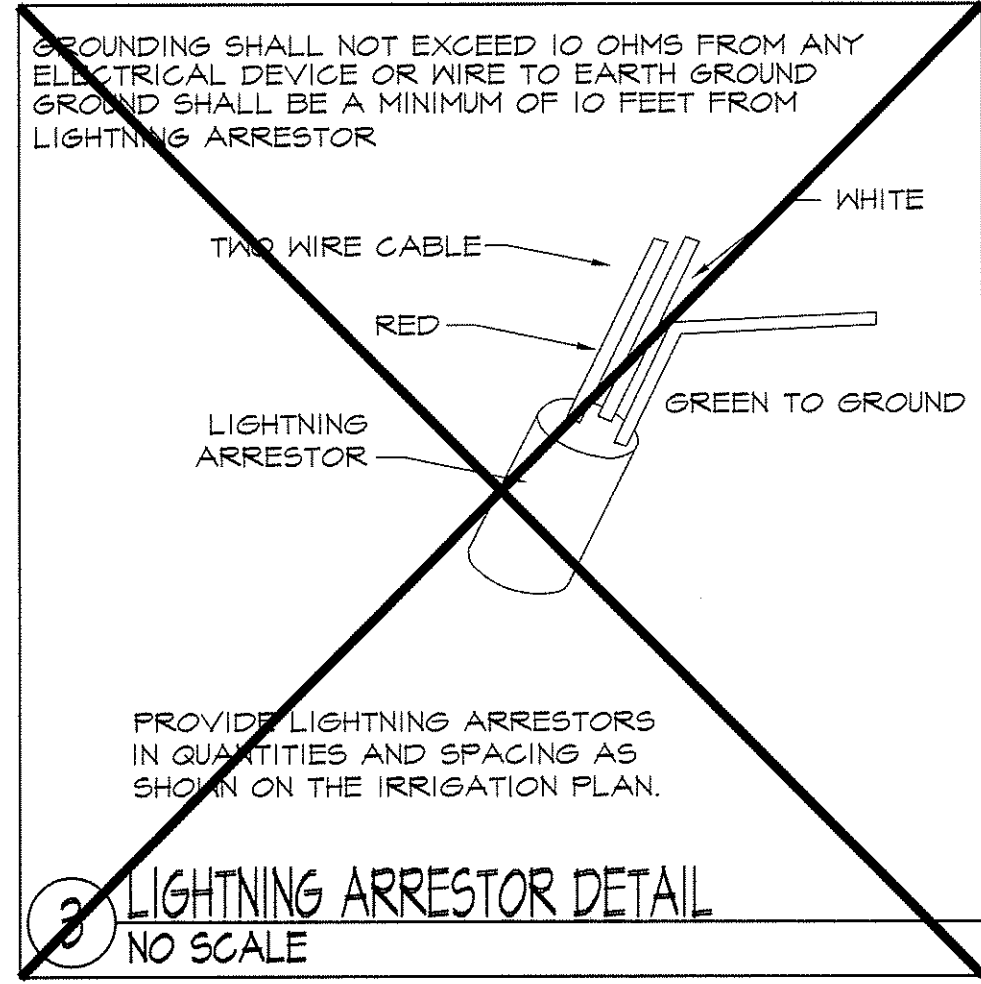
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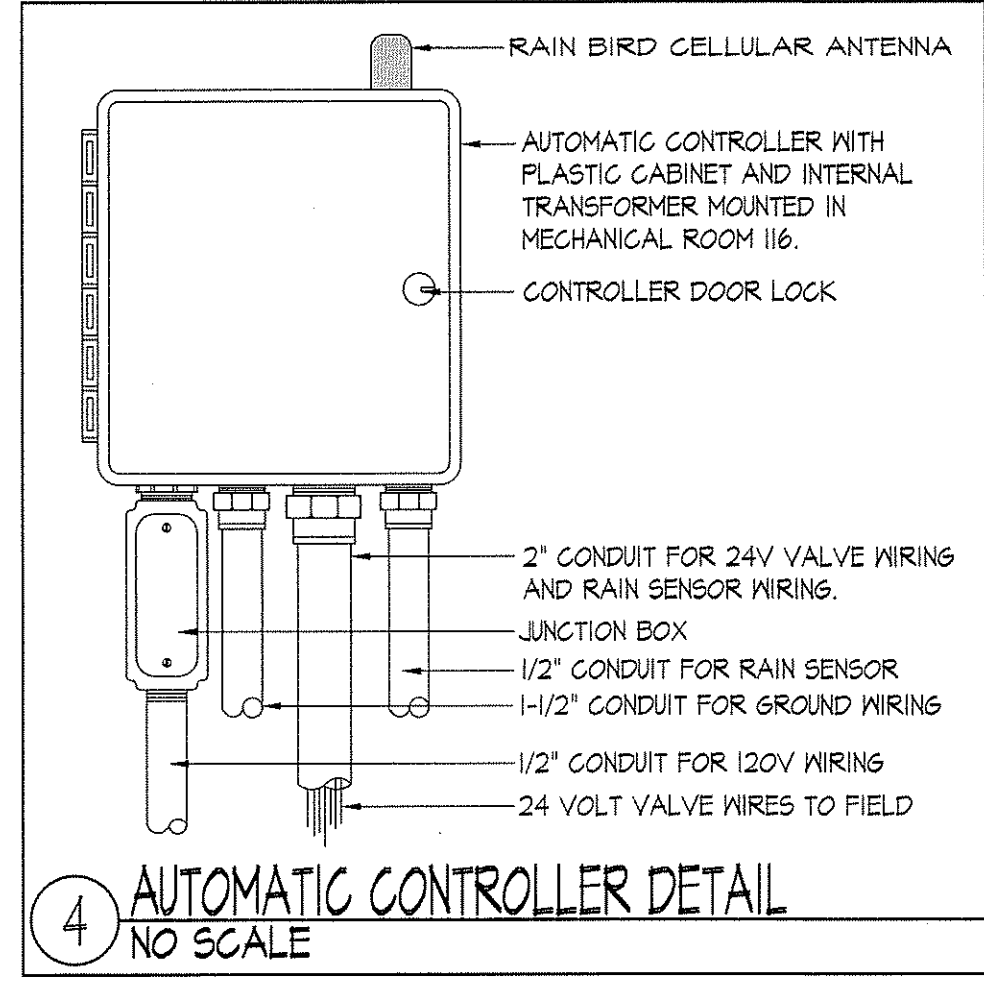
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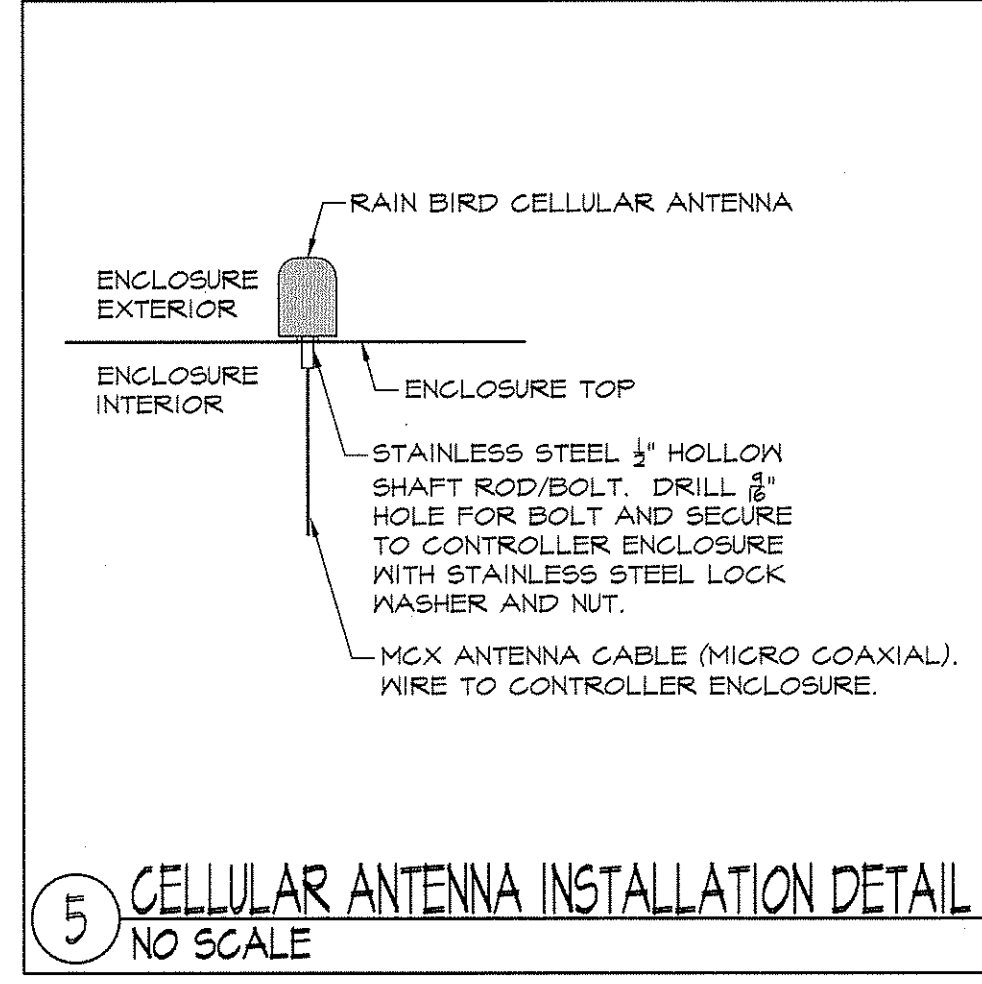
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3 LIGHTNING ARRESTOR DETAIL
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4 AUTOMATIC CONTROLLER DETAIL
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5 CELLULAR ANTENNA INSTALLATION DETAIL
NO SCALE

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