New Franklin School Traffic Circulation Improvements Portsmouth, New Hampshire MYRTLE AVENUE CUL-DE-SAC APRIL 2016

PREPARED FOR: DEPARTMENT OF PUBLIC WORKS

CITY OF PORTSMOUTH 680 PEVERLY HILL ROAD PORTSMOUTH, NH 03801

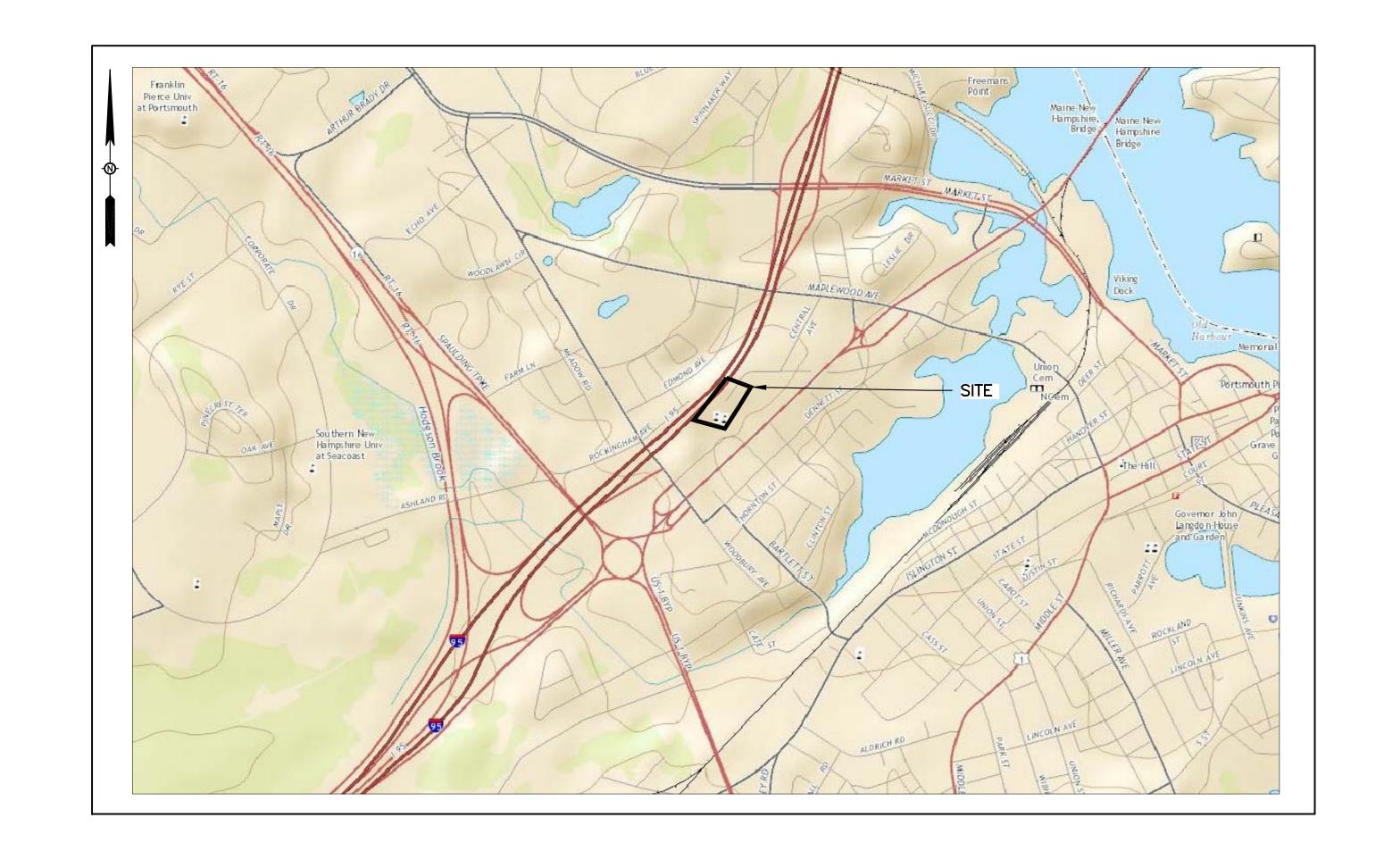
PREPARED BY: SEAPORT ENGINEERING, LLC

PORTSMOUTH, NH 03801 WWW.SEAPORTENG.COM

603-498-8449

SURVEY BY: AMBIT ENGINEERING, INC.

200 GRIFFIN ROAD, UNIT 3 PORTSMOUTH, NH 03801



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75% PROGRESS 5/23/2016

SURVEY NOTES:

1. THESE PLANS ARE BASED ON A FIELD SURVEY CONDUCTED ON 4/26/2016 BY AMBIT ENGINEERING, INC.

DEMOLITION NOTES:

- 1. LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT GUARANTEED. CONTRACTOR SHALL LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR AND/OR RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
- MATERIAL TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- 3. ANY DAMAGE BY THE CONTRACTOR DURING DEMOLITION AND/OR CONSTRUCTION SHALL BE REPAIRS OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 4. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES NECESSARY TO COMPLETE THE WORK.
- 5. CONTRACTOR SHALL REMOVE TREES AND BRUSH AS INDICATED AND AS REQUIRED FOR COMPLETION OF THE WORK. ALL STUBS SHALL BE REMOVED AND SURFACES GRUBBED WITHIN THE LIMITS OF WORK.
- 6. ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE COORDINATED WITH THE CITY OF PORTSMOUTH.
- 7. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION WORK. THIS INCLUDES SILT FENCE / SILT SOCK AND INLET PROTECTION BARRIERS.
- 8. CONTRACTOR SHALL SAWCUT PAVEMENT AT EDGES OF TRENCHES FOR CLEAN VERTICAL EDGES.
- 9. PAVEMENT RECLAMATION LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL RECLAMATION MAY BE REQUIRED. CONTRACTOR TO VERIFY FULL LIMITS OF PAVEMENT RECLAMATION.
- 10. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE PADS, PAVEMENT, PIPES AND HEADWALLS WITHIN THE LIMITS OF CONSTRUCTION.
- 11. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE PRIVATE AND PUBLIC UTILITIES.
- 12. CONTRACTOR SHALL NOTIFY DIG—SAFE 72 HOURS PRIOR TO ANY WORK STARTING. CONTRACTOR REQUIRED TO MAINTAIN AN ACTIVE DIG—SAFE PERMIT THROUGHOUT THE DURATION OF CONSTRUCTION.

GRADING NOTES

- 1. CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS. CONTRACTOR SHALL PAY CLOSE ATTENTION TO DRIVEWAY ENTRANCES.
- 2. EXISTING MANHOLES AND CATCHBASINS WITHIN LIMITS OF CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADES.
- 3. ALL WATER SHUT OFF VALVES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADES.
- 4. CONTRACTOR SHALL CLEAN ALL STRUCTURES WITHIN THE CONSTRUCTION LIMITS IMMEDIATELY UPON COMPLETION OF THE WORK. ALL SEDIMENT AND DEBRIS SHALL BE DISPOSED OF PER FEDERAL, STATE AND LOCAL REGULATIONS.
- 5. STORM DRAIN PIPING, UNLESS OTHERWISE NOTED, SHALL BE HIGH DENSITY POLTYETHYLENE (HANCOR HI-Q, ADS N-12 OR APPROVED EQUAL).
- 6. PROPOSED CATCHBASINS SHALL BE EQUIPPED WITH OIL/WATER SEPARATOR HOODS AND 2' SUMPS.
- 7. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED FERTILIZER AND MULCH.
- 8. CONTRACTOR SHALL PROVIDE THE FOLLOWING MINIMUM

REQUIREMENTS FOR COMPACTION:

BELOW PAVEMENT AND CONCRETE AREAS
TRENCH BEDDING AND BACKFILL

TRENCH BEDDING AND BACKFILL 95%
BELOW LOAM AND SEED AREAS 90%
COMPACTION PERCENTAGES SHALL BE THE MAXIMUM DRY DENSITY AT
OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557,
METHOD C. FIELD DENSITY TESTS SHALL BE CONDUCTED IN

95%

- ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.

 9. STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) AND CITY OF PORTSMOUTH DPW STANDARD SPECIFICATIONS.
- 10. CONTRACTOR SHALL GRADE SLOPES TO THE LINES AND GRADES SHOWN ON THE PLANS. SLOPES STEEPER THAN 2:1 SHALL INCLUDE 6" RIP—RAP STONE. SLOPES FROM 4:1 TO 2:1, CONTRACTOR SHALL PROVIDE A SLOPE STABILIZATION BLANKET.

SITE NOTES:

- 1. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- 2. ALL WORK SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS.
- 3. CONTRACTOR SHALL PROVIDE AS—BUILT PLANS (MYLAR AND .DWG FORMAT AUTOCAD FILES) TO THE CITY OF PORTSMOUTH UPON COMPLETION OF THE PROJECT. AS—BUILT SHALL BE PREPARED AND CERTIFIED BY A LAND SURVEYOR OR PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE.
- 4. MATERIALS AND CONSTRUCTION SHALL COMPLY TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND SPECIFICATIONS.
- 5. CONTRACTOR SHALL PROVIDE A LICENSED ENGINEER OR SURVEYOR TO DETERMINE ALL LINES AND GRADE.
- 6. CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL VERTICAL AN HORIZONTAL CONTROL FOR THE PROJECT.
- 7. PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE "MANUAL ON UNIFORM CONTROL DEVICES". "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS".
- 8. CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO THE CITY OF PORTSMOUTH FOR APPROVAL.
- 9. CONTRACTOR SHALL BE FAMILIAR WITH ALL AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS FOR ACCESSIBILITY.
- 10. PAVEMENT MARKINGS SUCH AS CROSSWALKS, STOP BARS, LEGENDS AND SYMBOLD SHALL BE THERMOPLASTIC PER AASHTO M249.
 CENTERLINE AND EDGE STRIPING SHALL BE TRAFFIC PAINT PER AASHTO M248 TYPE 'F'. TRAFFIC PAINT COLOR AS INDICATED IN THE PLANS.

UTILITY NOTES:

- 1. CONTRACTOR SHALL IDENTIFY AND RECORD SWING TIES TO ALL EXISTING UTILITY STRUCTURES, INCLUDING, BUT NOT LIMITED TO WATER SHUT OFF VALVES, MANHOLES, FIRE HYDRANTS.
- 2. CONTRACTOR SHALL UTILITY WORK WITH THE APPROPRIATE UTILITY COMPANY.

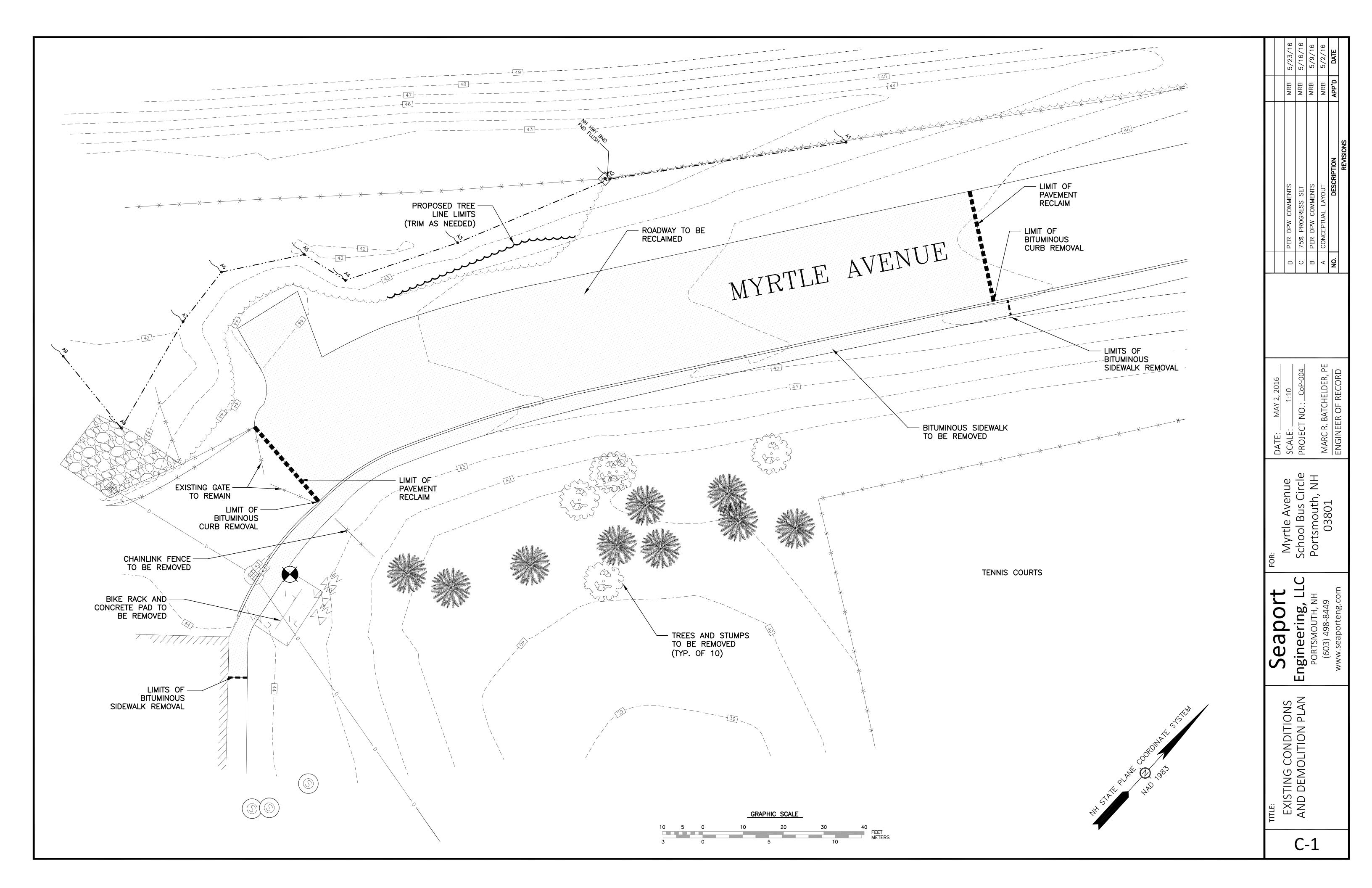
ELECTRIC — EVERSOURCE
TELEPHONE — FAIRPOINT OR VERIZON
WATER/SEWER — CITY OF PORTSMOUTH

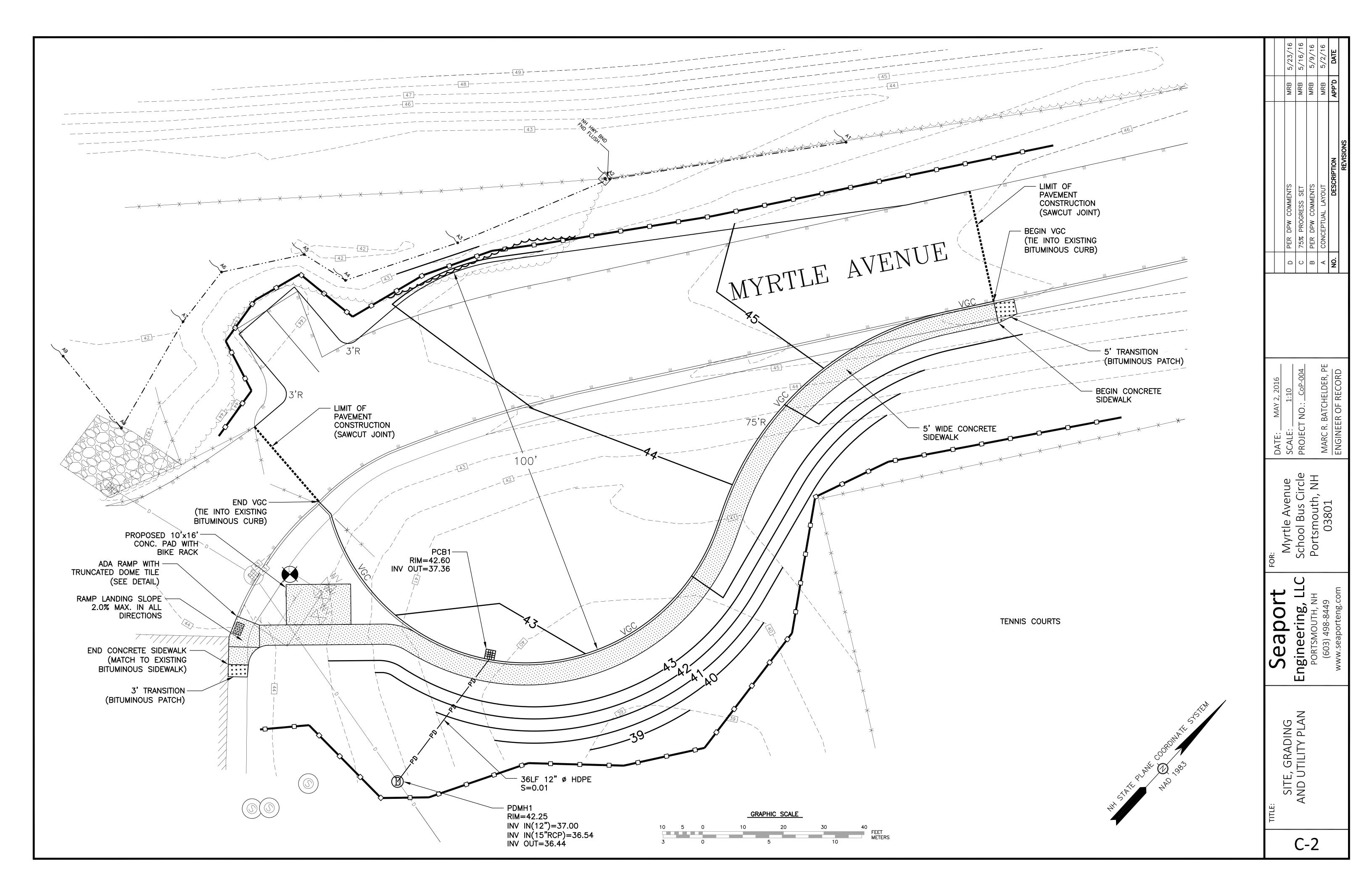
- 3. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT GUARANTEED. CONTRACTOR SHALL LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR AND/OR RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
- 4. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, ARRANGE ALL INSPECTIONS, AND SUBMIT CERTIFICATES OF ACCEPTANCE TO THE OWNER PRIOR TO COMPLETION OF THE PROJECT.
- 5. CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO ANY WORK STARTING. CONTRACTOR REQUIRED TO MAINTAIN AN ACTIVE DIG-SAFE PERMIT THROUGHOUT THE DURATION OF CONSTRUCTION.
- 6. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, CATCHBASINS, FRAMES, GRATES & COVERS, AND OTHER MISCELLANEOUS ITEMS NOTE NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF THE UTILITY COMPLETE AND OPERATIONAL.
- 7. CONTRACTOR SHALL AS—BUILT PROPOSED STORM WATER DRAINAGE SYSTEM, TO INCLUDE ELEVATIONS OF RIM AND ALL INVERTS.
- 8. ALL HYDRANTS AND VALVES SHALL BE INSPECTED AND MUST MEET CITY OF PORTSMOUTH STANDARDS.

LEGEND:

<u>EXISTING</u>	<u>PROPOSED</u>	
EOP	VGC	PROPERTY LINE RIGHT-OF-WAY BUILDING EDGE OF PAVEMENT CURB
		SIDEWALK
	00000	ADA TILE SIGN FENCE
		SHRUB
		TREE
<u>53</u>	53	TEMPORARY BENCHMARK 1' CONTOUR WETLANDS
A 14		WETLANDS BOUNDARY
— W — W — — — — — — — — — — — — — — — —	——PD ——PD ——	DRAINAGE WATER SEWER UNDERGROUND TELE. OVERHEAD WIRES
GAS — GAS —		GAS FIRE HYDRANT UTILITY POLE UTILITY POLE w/ LIGHT CATCHBASIN MANHOLE WATER SHUT OFF WATER VALVE
		LEDGE
		EROSION CONTROL SAWCUT LIMITS OF CONSTRUCTION (RECLAIM PAVEMENT LIMITS)

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PROJECT NAME AND LOCATION: MYRTLE AVENUE SCHOOL BUS CUL-DE-SAC PORTSMOUTH. NEW HAMPSHIRE

DESCRIPTION:

THE PROJECT CONSISTS OF RECLAIMING THE EXISTING ASPHALT PAVEMENT SURFACE, REGRADING THE BASE MATERIALS AND RESURFACING. INCLUDES INSTALLATION OF DRAINAGE SYSTEM, CURBING AND SIDEWALKS.

CONSTRUCTION SEQUENCE:

- INSTALL ALL EROSION CONTROL MEASURES.
- REMOVE TREES AND VEGETATION.
- 3. INSTALLATION OF NEW STORMWATER DRAINAGE SYSTEM.
- RECLAIM EXISTING ASPHALT PAVEMENT.
- GRADE AND COMPACT BASE MATERIALS.
- PLACE BASE COURSE OF ROADWAY PAVEMENT.
- INSTALL NEW CURBING, SIDEWALKS AND PAD. FINISH GRADE BEHIND CURB, SIDEWALKS AND PAD.
- 9. PLACE SEED AND MULCH ON LOAMED AREAS.
- 10. PLACE WEARING COURSE OF PAVEMENT
- 11. WHEN CONSTRUCTION ACTIVITY IS COMPLETE AND SITE IS STABILIZED, REMOVE EROSION CONTROL MEASURES.

EROSION AND SEDIMENT CONTROLS AND STABILIZATION PRACTICES:

THE EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" OF THE NHDOT, AND "STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED:
- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN **ESTABLISHED:**
- A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED: OR
- EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY. AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

DUST CONTROL: IF TEMPORARY STABILIZATION PRACTICES, SUCH AS TEMPORARY VEGETATION AND MULCHING, DO NOT ADEQUATELY REDUCE DUST GENERATION, APPLICATION OF WATER OR CALCIUM CHLORIDE SHALL BE APPLIED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM OF 0.5" OR GREATER. ALL DAMAGED SILT FENCES SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A SECURED LOCATION.

AVOID THE USE OF FUTURE OPEN SPACES (LOAM AND SEED AREAS) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF FUTURE ACCESS DRIVES AND PARKING AREAS.

TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNTS NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS. CONSTRUCT SILT FENCE AROUND TOPSOIL STOCKPILE.

ALL FILLS SHALL BE PLACED AND COMPACTED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.

DISTURBED AREAS SHALL BE SEEDED WITHIN 72 HOURS FOLLOWING FINISHED GRADING.

AT NO TIME SHALL ANY DISTURBED AREA REMAIN UNSTABILIZED FOR LONGER THAN 72 HOURS. ALL AREAS WHERE CONSTRUCTION IS NOT COMPLETE WITHIN THIRTY DAYS OF THE INITIAL DISTURBANCE SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

INSTALLATION PROCEDURES OF EROSION AND SEDIMENT **CONTROLS:**

A. VEGETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS FROM EARLY SPRING TO SEPTEMBER 30:

LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE.

FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10-20-20 FERTILIZER.

SEED SHALL BE SOWN AT THE RATES SHOWN IN THE TABLE BELOW. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE, AND SHALL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.

THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED SHALL BE RESEEDED. AND ALL NOXIOUS WEEDS REMOVED.

A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE:

GENERAL COVER

SEEDING RATE

CREEPING RED FESCUE KENTUCKY BLUEGRASS

BIRDSFOOT TREFOIL

100 LBS/ACRE 100 LBS/ACRE

2 LBS/ACRE

SLOPE SEED (USED ON ALL SLOPES GREATER THAN OR EQUAL TO

3:1)

LAWS.

CREEPING RED FESCUE 20 LBS/ACRE TALL FESCUE 20 LBS/ACRE

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH APPLICABLE STATE AND FEDERAL SEED

FOR TEMPORARY PROTECTION OF DISTURBED AREAS: MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING

> PERENNIAL RYE: 0.7 LBS/1,000 S.F. 1.5 TONS/ACRE MULCH:

B. <u>MULCHING</u>

IN ORDER TO BE EFFECTIVE, MULCHING MUST BE IN PLACE PRIOR TO MAJOR STORM EVENTS. THERE ARE TWO TYPES OF STANDARDS: APPLY MULCH PRIOR TO ANY STORM EVENT:

THIS IS APPLICABLE WHEN WORKING WITHIN 100 FEET OF WETLANDS. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER FORECASTS FOR ADEQUATE WARNING TO SIGNIFICANT STORMS.

REQUIRED MULCHING WITHIN SPECIFIED TIME PERIOD: THE TIME PERIOD CAN RANGE FROM 14 TO 21 DAYS OF INACTIVITY IN AN AREA, THE LENGTH OF TIME VARYING WITH SITE CONDITIONS. JUDGEMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS AND THE POTENTIAL FOR IMPACT ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE TIME RESTRICTION.

WHEN MULCH IS TO BE APPLIED TO PROVIDE PROTECTION OVER WINTER MONTHS, IT SHALL BE AT A RATE OF 6,000 POUNDS OF HAY OR STRAW PER ACRE. A TACKIFIER SHALL BE ADDED TO THE MULCH.

WINTER NOTES

ALL PROPOSED 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, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

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

AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

MAINTENANCE AND PROTECTION:

- 1. THE CONTRACTOR SHALL MAINTAIN ALL LOAM & SEED AREAS UNTIL FINAL ACCEPTANCE AT THE COMPLETION OF THE CONTRACT. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, REMOVAL OF STONES AND OTHER FOREIGN OBJECTS OVER 1/2 INCHES IN DIAMETER WHICH MAY APPEAR AND THE FIRST TWO (2) CUTTINGS OF GRASS NO CLOSER THEN TEN (10) DAYS APART. THE FIRST CUTTING SHALL BE ACCOMPLISHED WHEN THE GRASS IS FROM 2 1/2 TO 3 INCHES HIGH. ALL BARE AND DEAD SPOTS WHICH BECOME APPARENT SHALL BE PROPERLY PREPARED, LIMED AND FERTILIZED, AND RESEEDED BY THE CONTRACTOR AT HIS EXPENSE AS MANY TIMES AS NECESSARY TO SECURE GOOD GROWTH. THE ENTIRE AREA SHALL BE MAINTAINED, WATERED AND CUT UNTIL ACCEPTANCE OF THE LAWN BY THE OWNER'S REPRESENTATIVE.
- 2. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE GRASS WHILE IT IS DEVELOPING.
- 3. TO BE ACCEPTABLE, SEEDED AREAS SHALL CONSIST OF A UNIFORM STAND OF AT LEAST 90 PERCENT ESTABLISHED PERMANENT GRASS SPECIES, WITH UNIFORM COUNT OF AT LEAST 100 PLANTS PER SQUARE FOOT.
- 4. SEEDED AREAS WILL BE FERTILIZED AND RESEEDED AS NECESSARY TO INSURE VEGETATIVE ESTABLISHMENT
- 5. THE SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
- 6. THE SILT FENCE BARRIER SHALL BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- 7. SILT FENCING SHALL BE REMOVED ONCE VEGETATION IS ESTABLISHED. AND DISTURBED AREAS RESULTING FROM SILT FENCE REMOVAL SHALL BE PERMANENTLY SEEDED.

icm-12.5cm

NORTH

AMERICAN

CONTROL

BLANKET (OR

EQUAL)

GREEN EROSION —

NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS

NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA.

CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

THE WIDTH OF THE RECP'S.

APPROPRIATE STAPLE PATTERN.

2"-5" OVERLAP DEPENDING ON RECP'S TYPE.

(RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECEP'S IN A 6" DEEP

X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND

THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW

TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED

WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS

OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE

TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK

OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL

3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.

RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE.

ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING

PATTERN GUIDE. WHEN USING THE DOT SYSTEM™. STAPLES/STAKES SHOULD

5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER

SLOPE STABILIZATION BLANKET

SCALE: N.T.S

END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH

OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH.

BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE

STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE

4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY

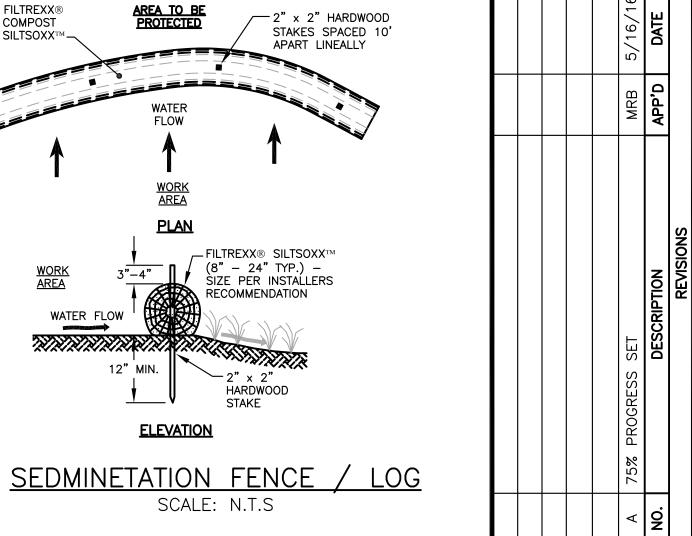
NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTH

GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

الصححا

ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.

- FILLTREXX SYSTEM SHALL BE INSTALLED BY A CERTIFIED FILTREXX INSTALLER.
- THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTRATION SYSTEM IN A FUNCTIONAL CONDITION AT ALL TIMES. IT WILL BE ROUTINELY INSPECTED AND REPAIRED WHEN REQUIRED.
- SILTSOXX DEPICTED IS FOR MINIMUM SLOPES, GREATER SLOPES MAY REQUIRE ADDITIONAL PLACEMENTS.
- THE COMPOST FILTER MATERIAL WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.



(30cm) ⁷

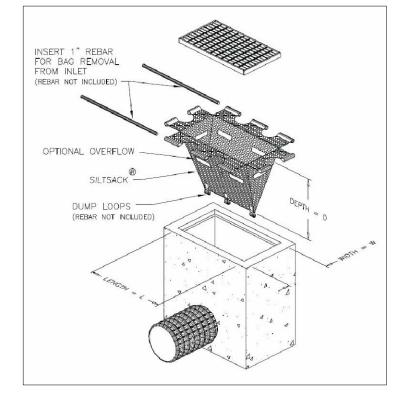
—
← 6" (15cm)

(5)

(7.5cm)

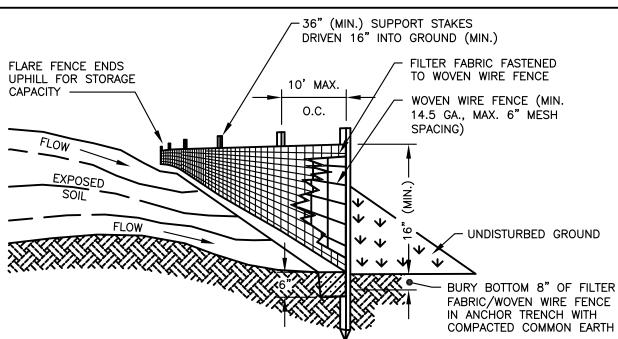
SILT SACK SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED CATCH BASINS AND INLETS WITHIN THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS.

INSTALL AND MAINTAIN PER MANUFACTURERS REQUIREMENTS.



DRAINAGE INLET PROTECTION

SCALE: N.T.S



NOTES:

1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES, AS IN FROSION CONTROL HANDBOOK

- 2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 6 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- 4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES
- OVERLAPPED BY 12 INCHES, FOLDED, AND STAPLED. 6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF
- AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES. 7. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.
- 8. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- DURING THE EXPECTED LIFE OF THE FENCE. THE FABRIC SHALL BE REPLACED
- DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. 11. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS

BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY, AND VEGETATED.

SCALE: N.T.S

EMBED STAKE 16" (MIN.)

BEST MANAGEMENT PRACTICE FOR SILT FENCE.

3. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.

SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION, AND BOTTOM. 5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE

16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD

9. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE

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

SILT FENCE

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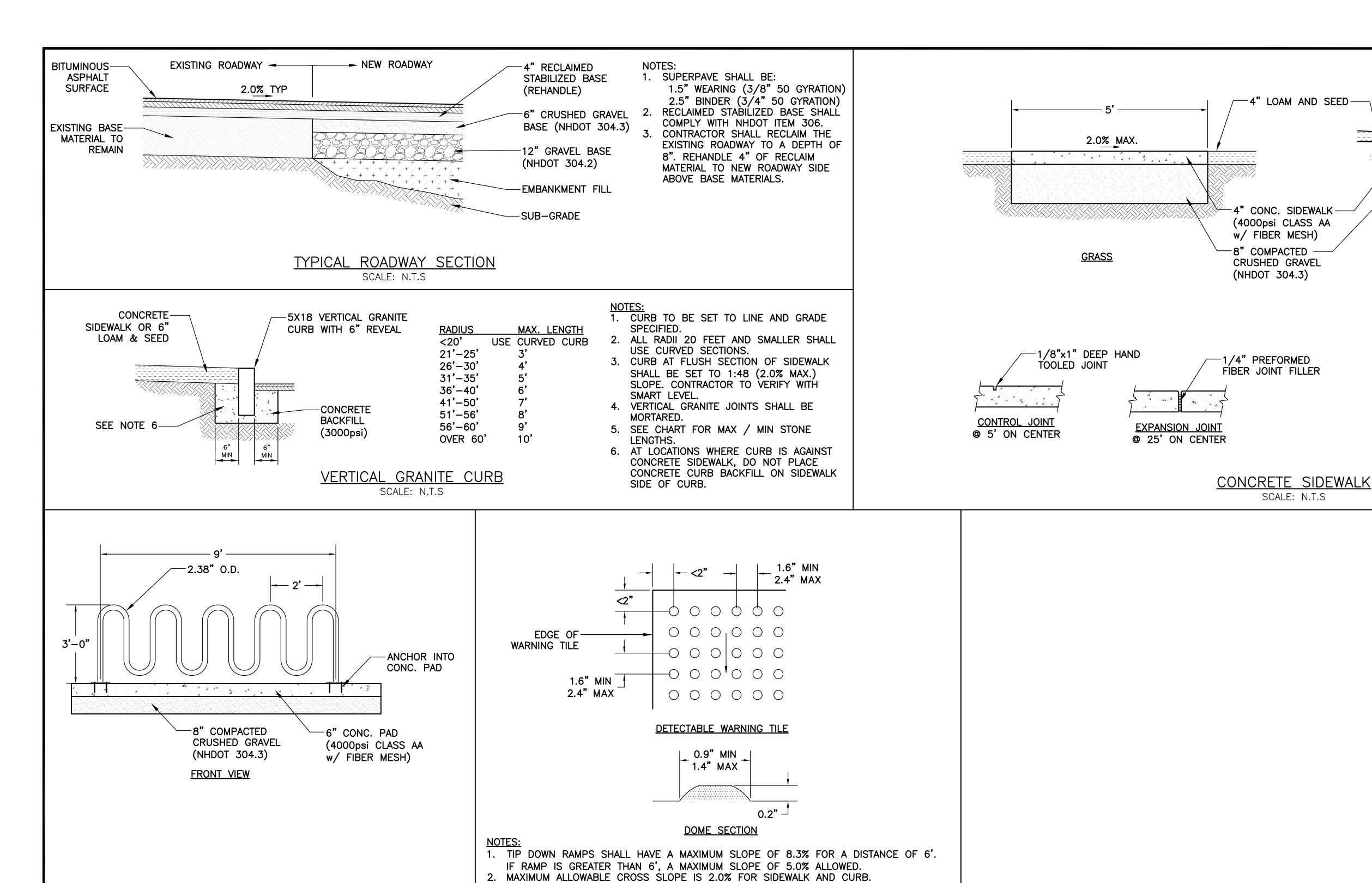
Myrtle Ave School Bus Portsmout 03801

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6. THERE SHALL BE NO CHANGE IN ELEVATION (LIP) OR GAPS IN THE SIDEWALK RAMPS

7. AREAS OF CHANGE IN DIRECTION SHALL HAVE A MAXIMUM SLOPE OF 2.0% IN ALL

8. DIAGONAL CURB RAMPS SHALL HAVE A FLAT (2.0% MAX.) LAND AT THE TOP AND

DIRECTION OF TRAVEL. RAMPS ON A RADIUS, PATTERN SHALL BE IN LINE WITH

10. WARNING TILE SHALL BE PLACED SO THAT THE EDGE CLOSEST TO THE CURB IS

11. WARNING TILE SHALL SPAN THE FULL WIDTH OF THE RAMP AND A MINIMUM OF 24"

SIDEWALK RAMPS

SCALE: N.T.S

9. ON RAMPS PERPENDICULAR WITH CURB LINE, PATTERN SHALL BE IN LINE WITH

DIRECTION OF TRAVEL TO THE EXTENT POSSIBLE.

BETWEEN 6"-8" FROM CURB LINE.

GREATER THAN 1/4".

DIRECTIONS.

DEEP.

NOTES:

1. PIPE SHALL BE EITHER HOT DIPPED

2. REFER TO MANUFACTURER

AND TYPE.

BROOM FINISH.

GALVANIZED OR EPOXY COATED PAINT.

COORDINATE WITH CITY OF PORTSMOUTH.

REQUIREMENTS FOR ANCHOR BOLT SIZE

BIKE RACK AND CONCRETE PAD

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3. CONCRETE SURFACE SHALL BE MEDIUM

MARC R. BATCHELDER, PE ENGINEER OF RECORD DATE: SCALE: PROJE(enue Circle th, NH Myrtle Ave School Bus Portsmoutl 03801 port Engineering, LL PORTSMOUTH, NH (603) 498-8449 DETAILS D-1

-CONCRETE

BACKFILL

(3000psi)

2.0% MAX.

AGAINST CURB

1. MEDIUM BROOM FINISH.

1/8" RADII.

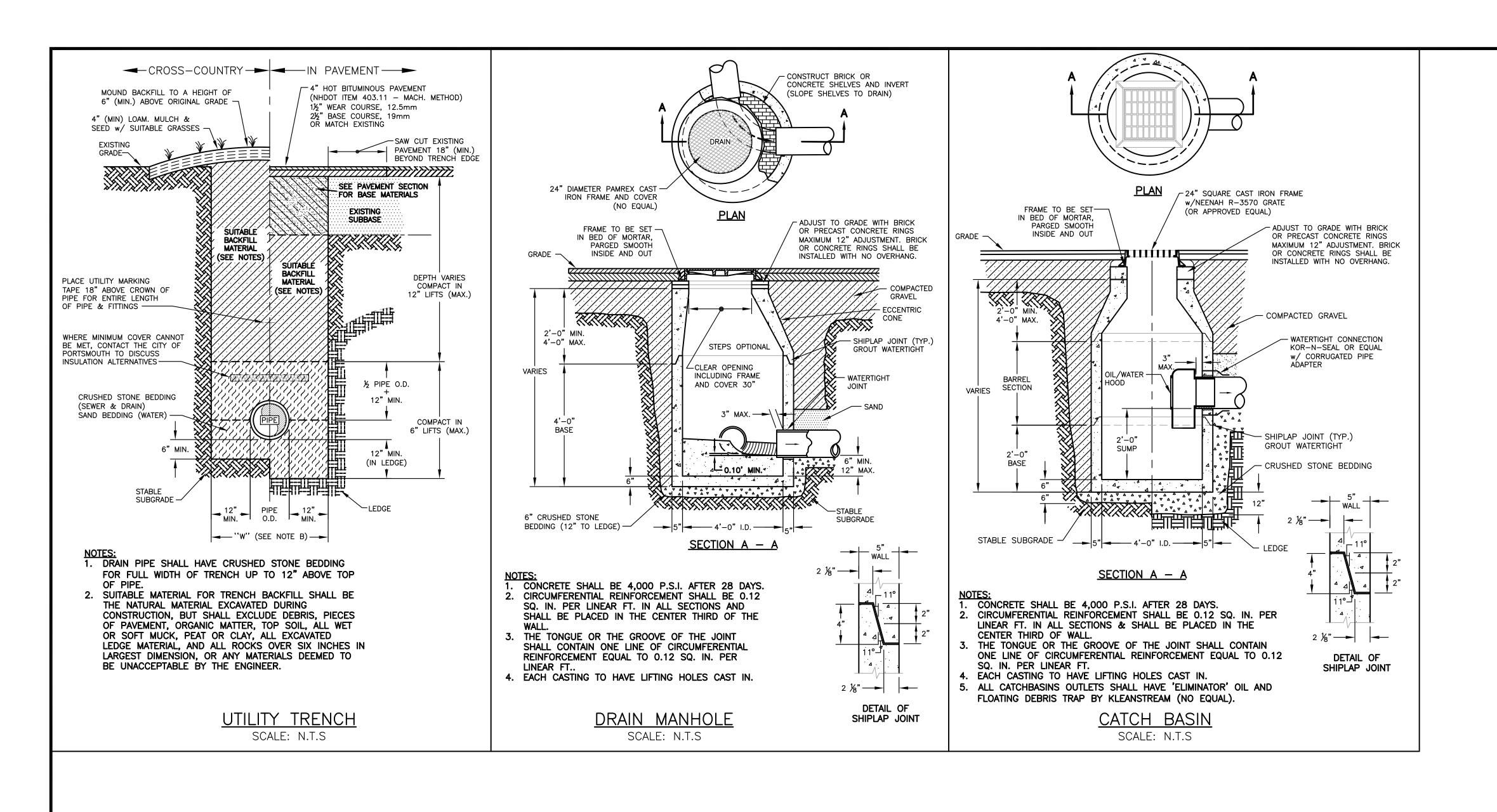
2. JOINTS SHALL BE HAND TOOLED w/

ELEVATION (LIP) OR GAPS IN THE

SIDEWALK GREATER THAN 1/4".

3. THERE SHALL BE NO CHANGE IN

NOTES:



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