GENERAL NOTES

- 1. BOUNDARY INFORMATION IS BASED UPON A MAP ENTITLED PROPERTY/ TOPOGRAPHIC SURVEY, SHEET 1 OF 1, CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND TOPOGRAPHIC ACCURACY CLASS T-2, CONDUCTED BY: MILONE AND MACBROOM INC., PREPARED FOR THE SLATE SCHOOL, INC. AT A SCALE OF 1"=40', DATED: MAY 19, 2020.
- 2. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455 or 811
- 3. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR LANDSCAPE ARCHITECT FOR RESOLUTION. 4. MILONE & MACBROOM, INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY
- OTHERS. 5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE
- BROUGHT TO THE ATTENTION OF THE ENGINEER OR LANDSCAPE ARCHITECT 6. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" TOPSOIL IN LAWN AREAS, AND BE SEEDED , AS SHOWN ON THE PLANS, UNLESS THE AREA IS A MULCHED PLANT BED WHICH SHALL RECEIVE A MINIMUM OF 12" OF TOPSOIL.
- 7. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
- 8. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO TOWN OF NORTH HAVEN REQUIREMENTS AND TO THE THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 817 AND ADDENDUMS
- 9. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER COMPANY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
- 10. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS USED DURING CONSTRUCTION SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
- 11. COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE
- 12. THE PROPERTY OWNER AND/OR HIS/HER AGENTS MUST MAINTAIN (REPAIR/REPLACE) WHEN NECESSARY THE SILTATION CONTROL MEASURES UNTIL ALL DEVELOPMENT ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- 13. SOIL AND EROSION CONTROLS SHALL BE INSPECTED BY THE ZONING ENFORCEMENT OFFICER BEFORE COMMENCEMENT OF WORK
- 14. THE PROPERTY OWNER AND/OR HIS/HER AGENTS MUST MAINTAIN, (REPAIR/REPLACE) WHEN NECESSARY, THE SILTATION CONTROL UNTIL ALL DEVELOPMENT ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- 15. ANY PROPOSED SIGNAGE OR FENCING WILL REQUIRE THE FILING OF APPLICATIONS WITH THE ZONING ENFORCEMENT OFFICER. 16. AT PROJECT COMPLETION AN AS-BUILT SURVEY WILL BE PREPARED AND SUBMITTED FOR BOND RELEASE
- 17. THE PROPERTY IS IN THE AQUIFER PROTECTION AREA

CONSTRUCTION SEQUENCE

- PRIOR TO COMMENCEMENT OF WORK A PRECONSTRUCTION MEETING SHALL BE HELD WITH TOWN STAFF AND REPRESENTATIVES OF THE CONTRACTOR AND OWNER. AT THIS MEETING, ONE PERSON WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE ENTIRE SITE.
- 2. CONTRACTOR TO STAKE OUT LIMIT OF DISTURBANCE AND VEGETATION TO BE RETAINED. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SHOWN.
- 3. CONTRACTOR TO INSTALL SEDIMENT AND EROSION CONTROLS ALONG THE PERIMETER, AND STABILIZED CONSTRUCTION ENTRANCES. 4. CLEAR AND GRUB SITE, STOCKPILE TOPSOIL, AND DEMOLISH EXISTING STRUCTURES THAT ARE TO BE REMOVED. PLACE SEDIMENT
- FILTER FENCE AND HAYBALES AROUND ALL STOCKPILES.
- 5. CONTRACTOR TO INSTALL ALL EROSION & SEDIMENT CONTROLS PER THE SEDIMENT AND EROSION CONTROL PLAN
- 6. INITIATE MASS EARTHWORK OPERATIONS AFTER ALL BASINS, BERMS, SWALES, SILT FENCE & HAYBALES ARE INSTALLED. 7. COMMENCE BUILDING FOUNDATION WORK.
- 8. SLOPES ARE TO BE ESTABLISHED AS SOON AS PRACTICAL BEFORE UTILITY INSTALLATION. STABILIZE ALL SLOPES IMMEDIATELY
- AFTER THEIR ESTABLISHMENT.
- 9. INSTALL UTILITIES, CURBS AND ROADS/ DRIVEWAYS.
- 10. COMPLETE BUILDING CONSTRUCTION.
- 11. PAVE PARKING LOT AND INSTALL SIDEWALKS AND SITE FEATURES.
- 12. ESTABLISH LAWNS, AND INSTALL LANDSCAPING.
- 13. OWNER MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SILTATION CONTROL UNTIL ALL REGULATED ACTIVITY IN COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.

CONSTRUCTION NOTES

WATERS.

WATERS OR WETLANDS.

- TEMPORARY SEDIMENT BASINS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER. CLEAN THE SEDIMENT BASIN WHEN SEDIMENT ACCUMULATION EXCEEDS ONE HALF THE WET STORAGE CAPACITY OF THE BASIN OR WHEN THE DEPTH OF AVAILABLE POOL IS REDUCED TO 18 INCHES, WHICHEVER IS ACHIEVED FIRST.
- 2. SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER.
- 3. THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MODIFIED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND THE TOWN'S DESIGNATED REPRESENTATIVE AS NECESSITATED BY CHANGING SITE CONDITIONS
- 4. INSPECTION OF THE SITE FOR EROSION SHALL CONTINUE FOR A PERIOD OF THREE MONTHS AFTER COMPLETION WHEN RAINFALLS OF ONE INCH OR MORE OCCUR.
- 5. ALL DEWATERING WASTE WATERS SHALL BE DISCHARGED IN A MANNER WHICH MINIMIZES THE DISCOLORATION OF THE RECEIVING
- 6. THE SITE SHOULD BE KEPT CLEAN OF LOOSE DEBRIS, LITTER, AND BUILDING MATERIALS SUCH THAT NONE OF THE ABOVE ENTER
- 7. A COPY OF ALL PLANS AND REVISIONS, AND THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MAINTAINED ON-SITE AT ALL TIMES DURING CONSTRUCTION.

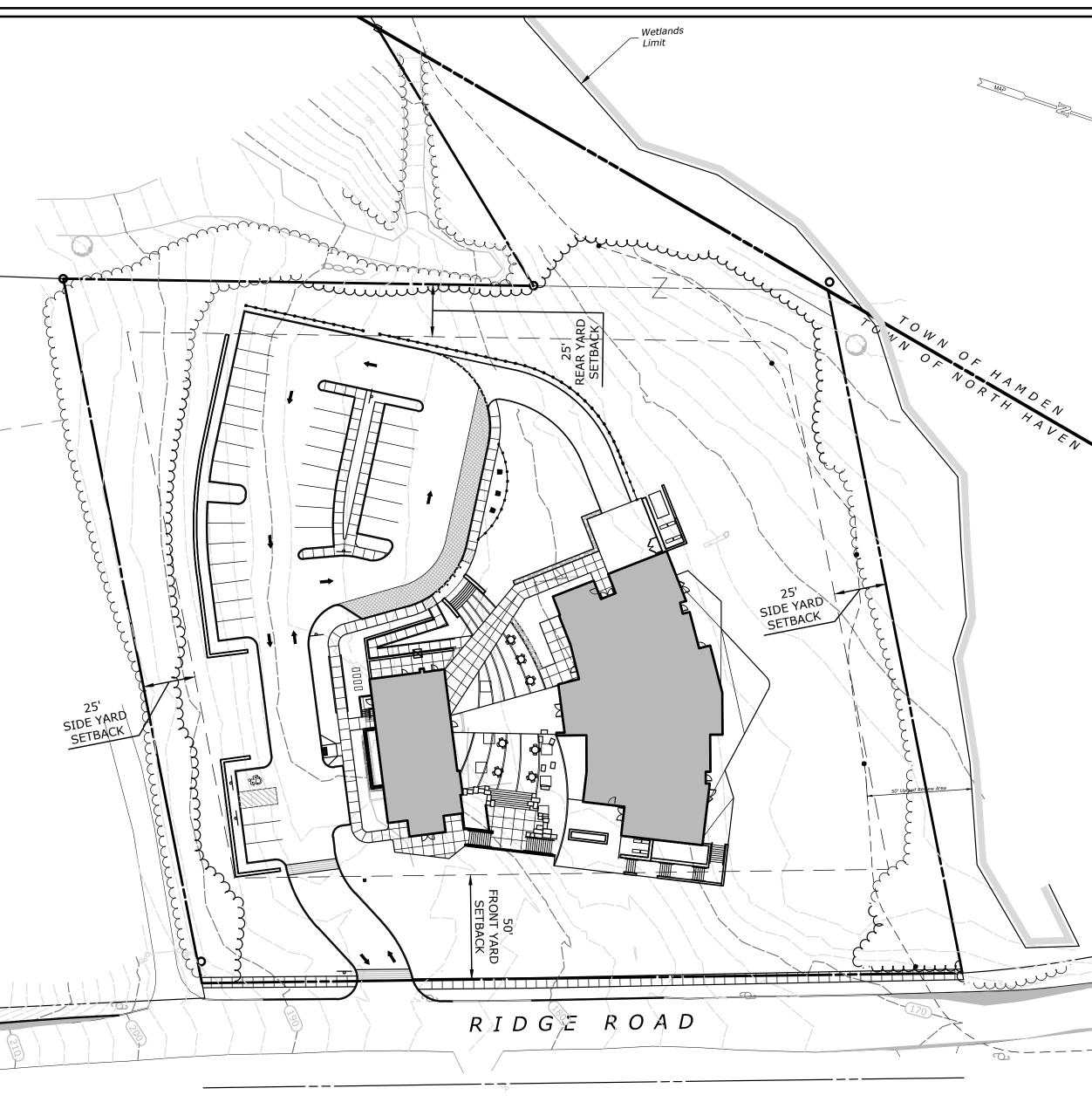
| ZONI | NG DATA TABLE | | |
|---------|-------------------|-----------------|-----------------------------|
| | | EXISTING ZONE | |
| | ZONE | R-40 | |
| | MAP-BLOCK-LOT | NHA 970/002 | |
| | REQUIREMENT | REQ'D/PERMITTED | PROVIDED |
| | MINIMUM LOT AREA | 40,000 S.F. | 129,185 S.F. (2.966 A.C.) |
| | LOT WIDTH | 150 FT. | 363.27 FT. |
| MINIMUM | FRONT YARD | 50 FT. | 50 FT. |
| | SIDE YARDS | 25 FT. | 25 FT. |
| | REAR YARD | 25 FT. | 25 FT. |
| MAXIMUM | BUILDING HEIGHT | 35 FT. | 27 FT. (from average grade) |
| | BUILDING COVERAGE | 15% | 10,440 S.F. (8%) |

SLATE UPPER SCHOOL

5100 RIDGE ROAD NORTH HAVEN, CONNECTICUT

REGULATORY SUBMISSION

OCTOBER 27, 2020 (INLAND WETLANDS) REVISED: NOVEMBER 6, 2020 (PLANNING AND ZONING) REVISED: DECEMBER 10, 2020

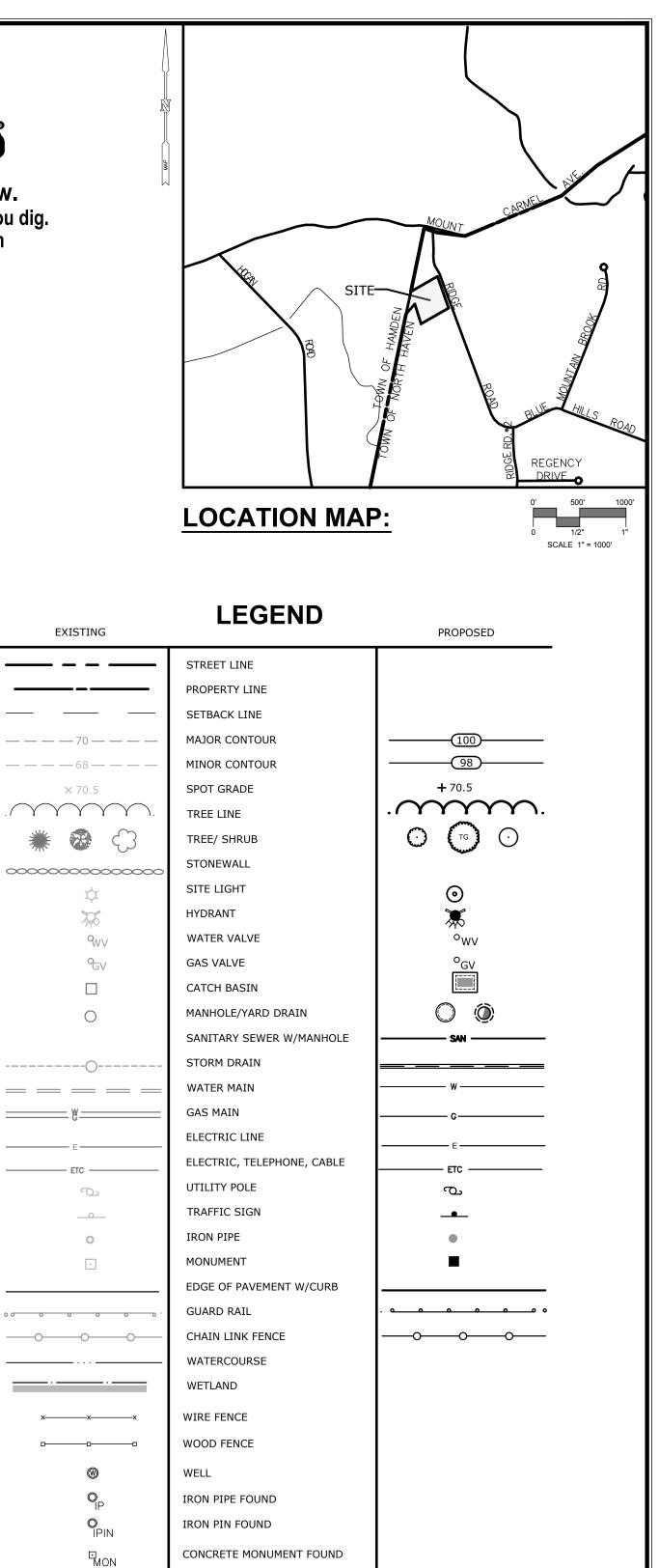


PROJECT SITE VICINITY MAP:

SCALE 1" = 60'







PREPARED FOR:

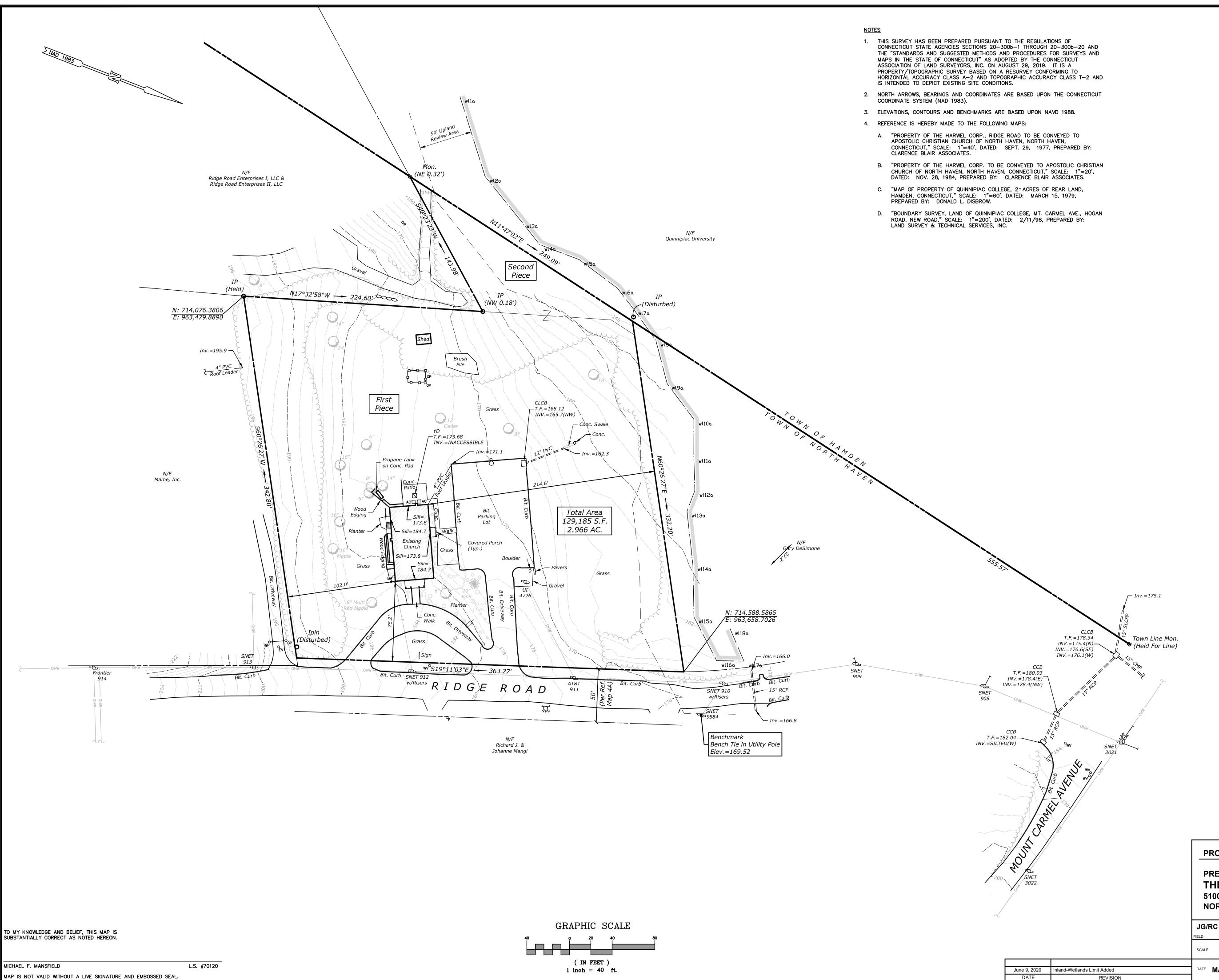
THE SLATE SCHOOL, INC. 124 MANSFIELD ROAD NORTH HAVEN, CT 06473

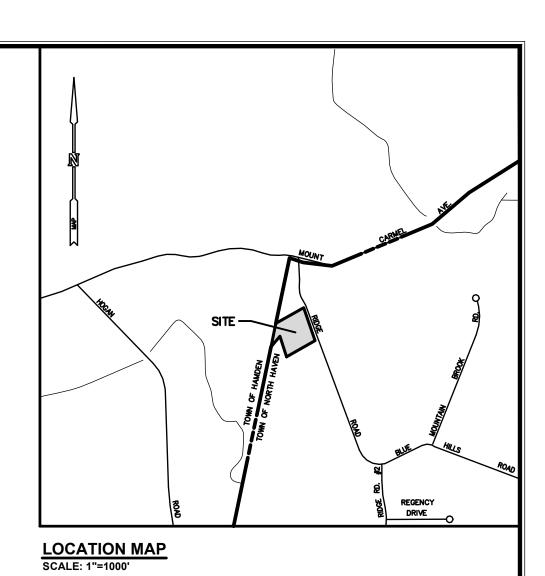
LIST OF DRAWINGS

| NO. | NAME | TITLE |
|-----|--------|---|
| 01 | | TITLE SHEET |
| 02 | 1 OF 1 | PROPERTY/ TOPOGRAPHIC SURVEY |
| 03 | EX-1 | EXISTING CONDITIONS AND REMOVALS PLAN |
| 04 | LA-1 | SITE PLAN - LAYOUT |
| 05 | LS-1 | SITE PLAN - LANDSCAPING |
| 06 | GR-1 | SITE PLAN - GRADING |
| 07 | UT-1 | SITE PLAN - UTILITIES |
| 08 | SS-1 | SUBSURFACE SEWAGE DISPOSAL PLAN |
| 09 | SE-1 | SEDIMENT AND EROSION CONTROL PLAN |
| 10 | SE-2 | SEDIMENT AND EROSION CONTROL SPECIFICATIONS AND DETAILS |
| 11 | SD-1 | SITE DETAILS |
| 12 | SD-2 | SITE DETAILS |
| 13 | SD-3 | SITE DETAILS |
| 14 | SD-4 | SITE DETAILS |
| 15 | SD-5 | SITE DETAILS |
| 16 | VH-1 | FIRETRUCK MOVEMENT PLAN |
| 17 | LP-1 | LIGHTING PHOTOMETRIC PLAN |

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FENCE POST





<u>LEGEND</u>

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STREET LINE PROPERTY LINE STONEWALL TREELINE FENCE ELECTRIC LINE - OVERHEAD WIRES CATCH BASIN YARD DRAIN WATER VALVE GATE POST POST ELECTRIC VAULT ELECTRIC METER UTILITY POLE GUY WIRE HYDRANT LIGHT POST SIGN MAILBOX IRON PIPE FOUND IRON PIN FOUND

MONUMENT FOUND

PROPERTY/TOPOGRAPHIC SURVEY

PREPARED FOR: THE SLATE SCHOOL, INC. 5100 RIDGE ROAD NORTH HAVEN, CONNECTICUT

JG/RC MDP MFM HECKED RAWN 1"=40' DATE **MAY 19, 2020**

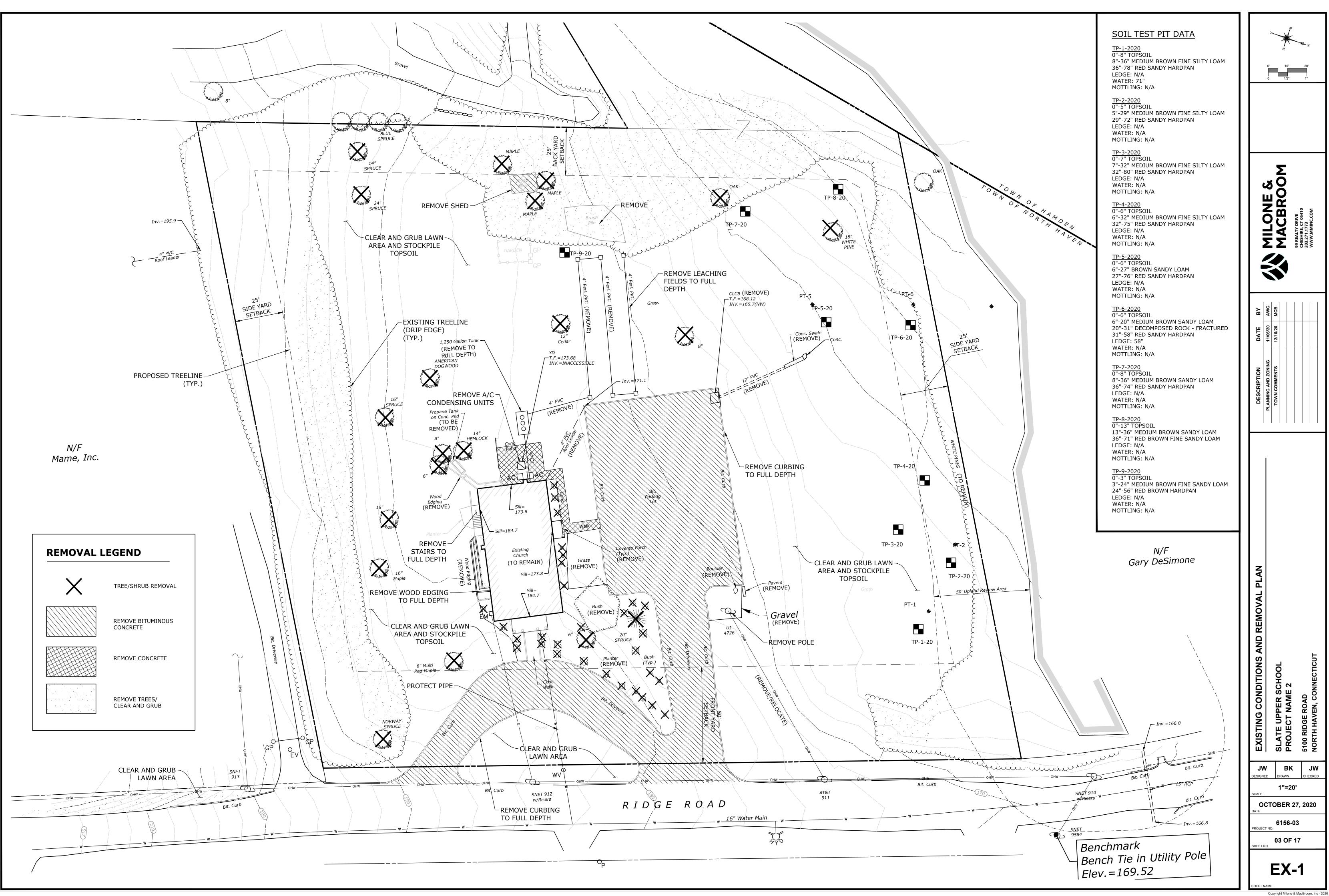
MILONE & MACBROOM 99 REALTY DRIVE CHESHIRE, CT 06410 203.271.1773 WWW.MMINC.COM

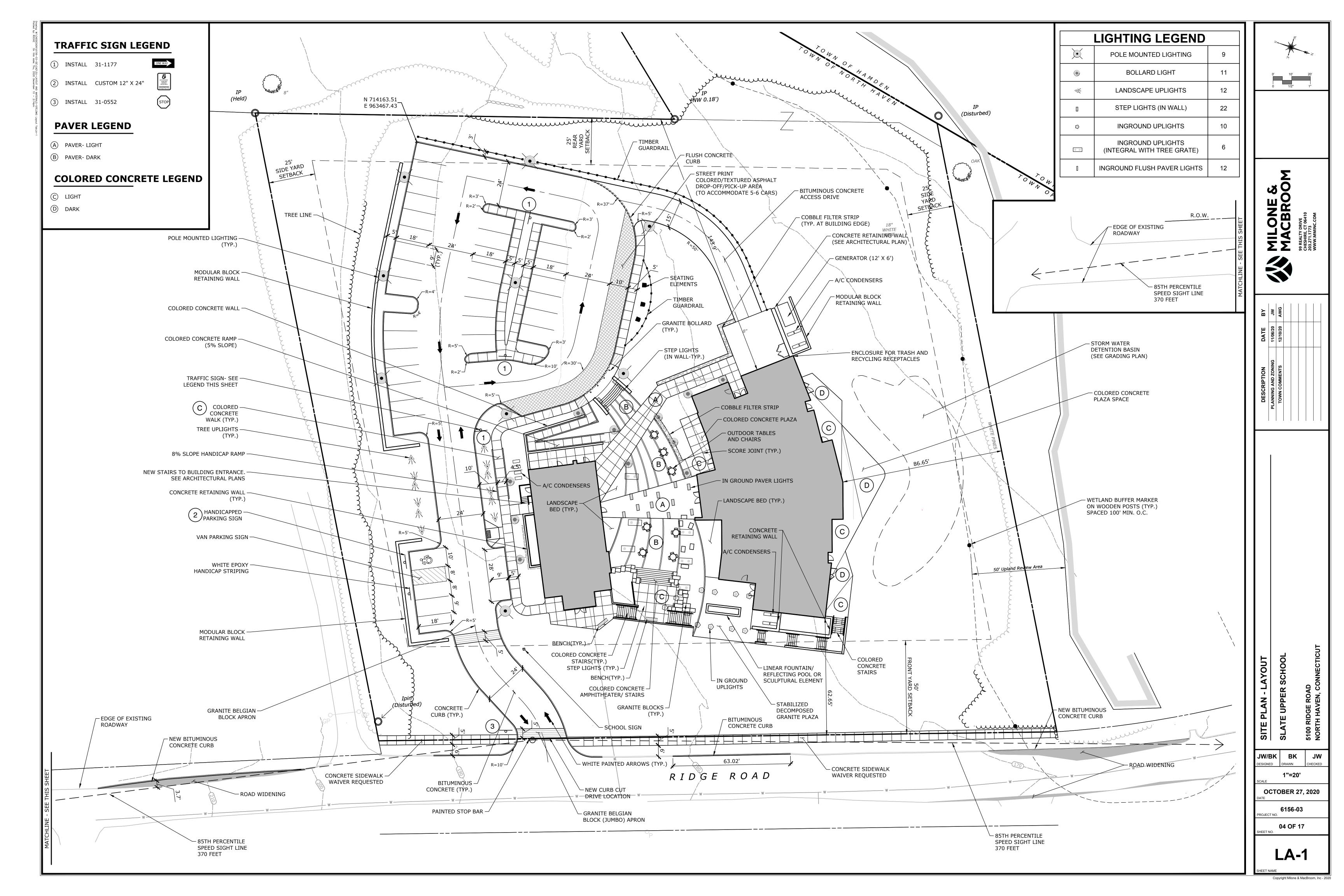
6156-03 ROJECT NO.

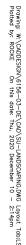
1 OF 1

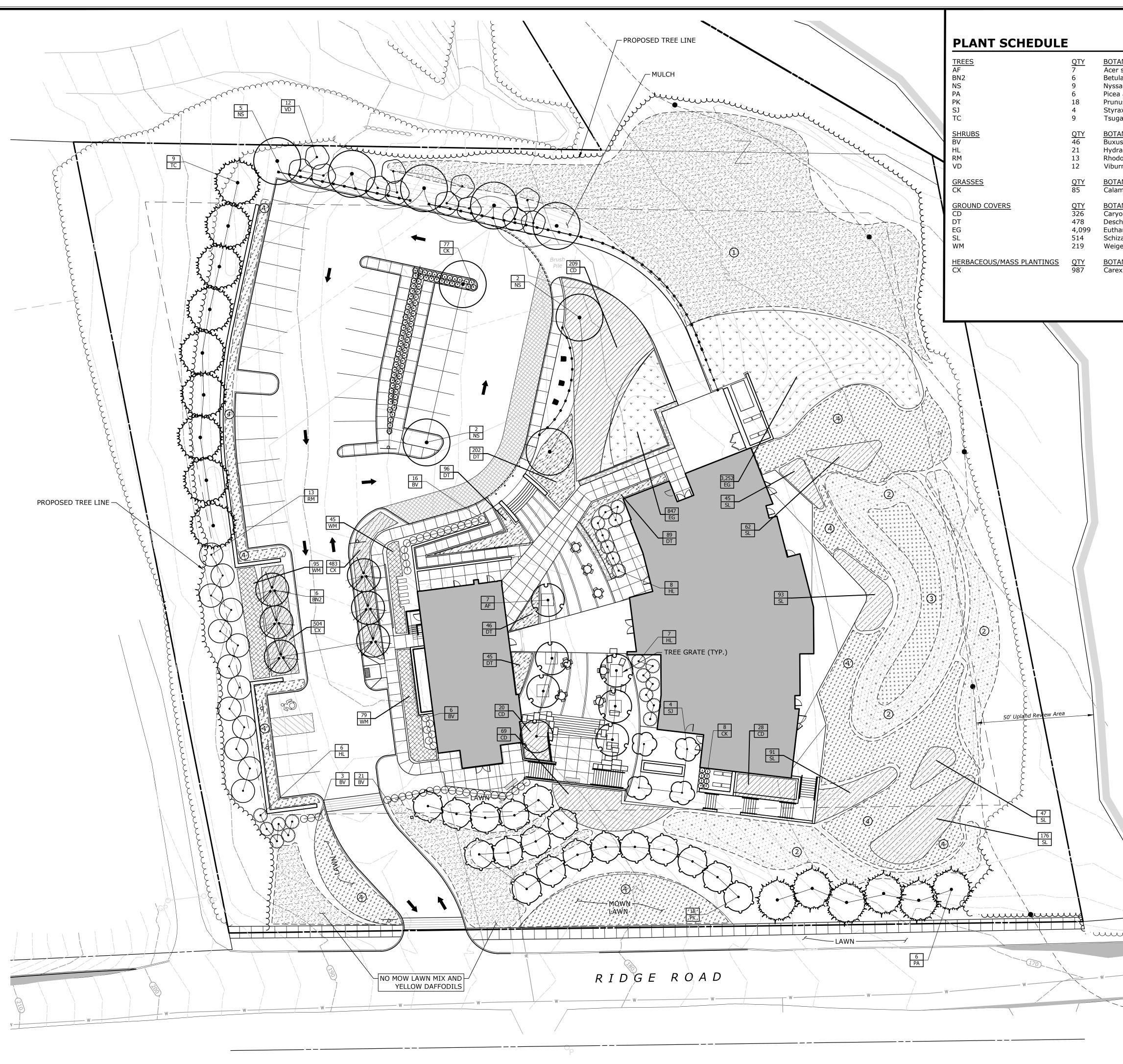
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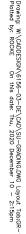


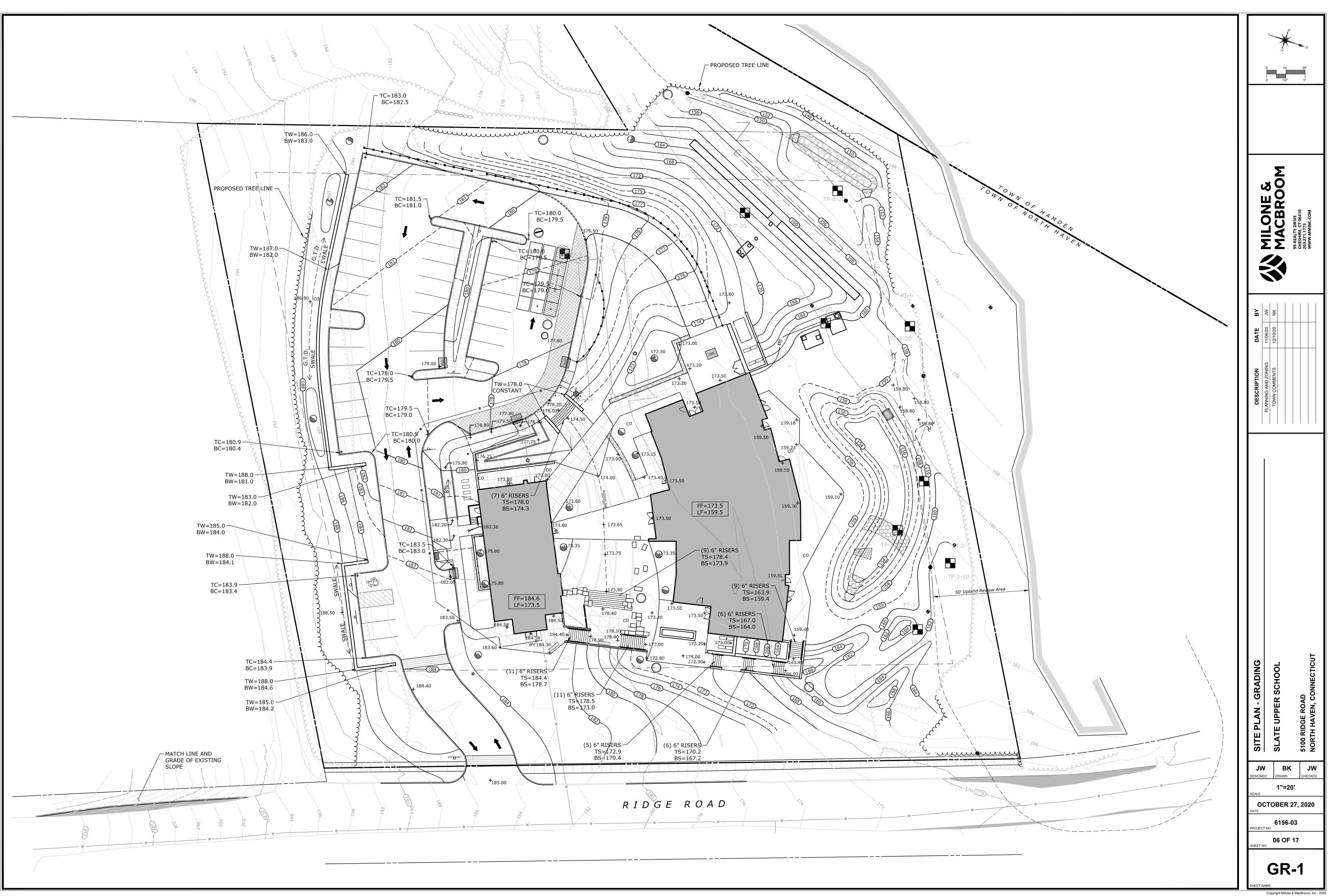


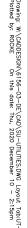




| cer shirasawanum Feritage etula nigra `Heritage` Feritage` vssa sylvatica Secondary cea abies Feritage` unus serrulata `Kwanzan` Feritage` yrax japonicus Secondary suga canadensis Geritage` OTANICAL NAME Geritagea uxus sempervirens `Variegata` Feritagea vdrangea paniculata `Limelight` Feritagea burnum plicatum tomentosum `Mariesii` Feritagea | COMMON NAME Fullmoon Maple Heritage River Birch Sour Gum Norway Spruce Flowering Cherry Japanese Snowbell Canadian Hemlock COMMON NAME Variegated Common Boxwoo Limelight Hydrangea Rose Bay Mariesii Double File Viburnum | 6`/7` HT. 1 | CONT. B & BCOMMENTSB & BBB & BBB & BBB & BCONT. 3CONT. # 3 # 3COMMENTS# 3 B & BFULL & DENSE# 5FULL & DENSECONT. COMMENTS | |
|--|--|---|--|---|
| alamagrostis acutiflora `Karl Foerster` F DTANICAL NAME G aryopteris x clandonensis `Dark Knight` I eschampsia cespitosa G ithamia graminifolia G chizachyrium scoparium I eigela florida `Midnight Wine` TM M DTANICAL NAME G | Feather Reed Grass COMMON NAME Dark Knight Bluebeard Tufted Hair Grass Grass Leafed Golden Rod Little Bluestem Grass Weigela COMMON NAME Blue Sedge | SIZE #3 CONT seed #1 plug seed #3 CONT #1 | <u>CONT.</u> <u>COMMENTS</u> | Pint State Pint State B REALTY DRIVE B REALTY DRIVE B REALTY DRIVE B REALTY DRIVE S 03.271.1773 D D D D D D D D D D D D D D D D D D D |
| UTILITIES PRIOR TO EXCAVATING PLANT PITS. 2. THE LANDSCAPE CONTRACTOR SHALL PROVIDE A 6" MINIMUM DEPTH OF TOPSOIL FOR ALL LAWN AREAS. WATER AS NECESSARY TO ESTABLISH TURF. ALL PLANTING BEDS SHALL HAVE 12" MINIMUM DEPTH OF TOPSOIL. 3. THE LANDSCAPE CONTRACTOR SHALL PROVIDE A 4" MIN. DEPTH OF SHREDDED CEDAR MULCH OVER ALL PLANTING BEDS AND TREE PLANTINGS. NO DYED MULCH SHALL BE ACCEPTED. 4. ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO AND AFTER PLANTING. 5. PLANT SPECIES MAY BE ADJUSTED BASED ON AVAILABILITY AT TIME OF PLANTING. ALL PLANT MATERIAL SUBSTITUTIONS ARE SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND THE TOWN OF NORTH HAVEN. 6. ALL PLANT MATERIALS SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROMPT TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNHEALTHY CONDITION BY THE LANDSCAPE ARCHITECT. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT. MAINTENANCE SHALL ICATION THE PLANTING AREPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTING PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS AND ALL OTHER CARE NEEDED FOR PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS AND GUY OF PLANTS REQUIRE TOWN APPROVAL. 10. PLACEMENT | | | | NN DATE CONING 11/06/20 ENTS 12/10/20 |
| | | Seed Rate: 23 LB/ACRE NEW ENGLAND EROSION DETENSION BASINS AND Seed Rate: 23 LB/ACRE AWN SEED DONATHAN GREEN BLACK CONSISTING OF: DAKOTA TALL FESCUE MONTANA TALL FESCUE MONTANA TALL FESCUE TOMBSTONE TALL FESCUE TOMBSTONE TALL FESCUE SUB-TASTIC KENTUCKY FRONTIER PERENNIAL RY <i>-OR APPROVED EQUIVAL</i> SEED MIXTURES SHALL H DTHER CULTIVARS OF PE FESCUE AND KENTUCKY SUBSTITUTED FOR THE A THE APPROVAL OF THE A NUMBER OF SPECIES AN PERCENTAGE BY WEIGHT THE SAME AS SPECIFIED AS MANUFACTURED BY: | VILDFLOWER MIX ATUM/ BIG BLUESTEM MIX (DRY) CONTROL/ RESTORATION FOR MOIST SITES CONTROL/ RESTORATION FOR MOIST SITES CONTROL FOR MOIST SITES MOIST SITES CONTROL FOR MOIST SITES CONTROL FOR MO | SITE PLAN - LANDSCAPING SLATE UPPER SCHOOL 5100 RIDGE ROAD NORTH HAVEN, CONNECTICUT |
| | | | | OIOSTERICALE JW BK JW DESIGNED DRAWN CHECKED 1"=20' SCALE OCTOBER 27, 2020 DATE 6156-03 PROJECT NO. 05 OF 17 SHEET NO. LS-1 SHEET NAME |









STORM WATER MAINTENANCE PROGRAM

UPON SITE DEVELOPMENT, THERE WILL BE A NEED TO PERIODICALLY MAINTAIN STORMWATER SYSTEMS ON THE PROPERTY. THE STORMWATER SYSTEM CONSISTS OF PIPING AND CATCH BASINS.

IN ORDER TO ENSURE OPTIMAL PERFORMANCE OF THE SYSTEM, THE FOLLOWING STORMWATER MAINTENANCE PROGRAM HAS BEEN ESTABLISHED. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR IMPLEMENTATION OF THIS PROGRAM. A LOG OF ALL INSPECTIONS, CLEANING AND REPAIRS SHALL BE MAINTAINED BY THE PROPERTY OWNER AND BE AVAILABLE FOR REVIEW.

A. CATCH BASINS/YARD DRAINS/AREA DRAINS

CATCH BASINS ARE DESIGNED WITH 2-FOOT MINIMUM DEPTH SUMPS FOR THE PURPOSE OF COLLECTING COARSE SEDIMENT. ALL CATCH BASINS SHOULD BE INSPECTED TWO TIMES PER YEAR, TYPICALLY WHEN THE SITE IS SWEPT IN THE SPRING AFTER WINTER SANDING AND IN THE FALL AFTER ALL THE LEAVES HAVE FALLEN. SITE SWEEPING SHALL BE PROVIDED BETWEEN APRIL 15 AND MAY 15 EACH SPRING.

SEDIMENT SHOULD BE REMOVED WHEN IT EXTENDS TO WITHIN 6 INCHES OF THE OUTLET PIPE INVERT OR NOT LESS THAN ONCE PER YEAR. CLEANOUT WITH A VACUUM TRUCK IS GENERALLY THE BEST AND MOST CONVENIENT METHOD. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS.

B. PAVEMENT SWEEPING

THE PARKING AREA AND ROADWAY SHALL BE SWEPT ANNUALLY. SWEEPING SHOULD OCCUR IN THE SPRING AFTER WINTER SANDING, BETWEEN APRIL 15 AND MAY 15. SALT ALTERNATIVES SHALL BE USED DURING WINTER MONTHS FOR DEICING.

STORMWATER BASIN

MOWING: THE UPPER STAGE, SIDE SLOPES, AND EMBANKMENT OF STORMWATER POND MUST BE MOWED AT LEAST ONCE PER YEAR TO DISCOURAGE WOODY GROWTH AND CONTROL WEEDS. AREAS THAT LIE WITHIN THE UPLAND REVIEW AREA ARE NOT TO BE MOWN BUT MUST BE MONITORED YEARLY FOR WOODY GROWTH. IF PRESENT, WOODY GROWTH TO BE REMOVED BY HAND.

INSPECTIONS: BASIN SHOULD BE INSPECTED TWICE PER YEAR(SPRING AND FALL) TO ENSURE THAT THE STRUCTURE OPERATES IN THE MANNER ORIGINALLY INTENDED. WHEN POSSIBLE, INSPECTIONS SHOULD BE CONDUCTED DURING WET WEATHER TO DETERMINE IF THE BASIN IS MEETING THE TARGETED DETENTION TIMES PER APPROVED DESIGN. IN PARTICULAR, THE OUTLET CONTROL DEVICE SHOULD BE REGULARLY INSPECTED FOR EVIDENCE OF CLOGGING OR, CONVERSELY, FOR TOO RAPID A RELEASE, AND THE FLOW PATH SHOULD BE CHECKED FOR EROSION PROBLEMS. OTHER PROBLEMS THAT SHOULD BE CHECKED FOR INCLUDE SUBSIDENCE, OUTLET WATER TURBIDITY, BANK/BED/OUTLET EROSION, CRACKING, OR TREE GROWTH ON THE EMBANKMENT; THE ACCUMULATION OF SEDIMENT AROUND THE OUTLET; THE ADEQUACY OF UPSTREAM/DOWNSTREAM CHANNEL EROSION CONTROL MEASURES; AND MODIFICATIONS TO THE BASIN OR ITS CONTRIBUTING WATERSHED THAT MAY INFLUENCE BASIN PERFORMANCE. INSPECTIONS SHOULD BE CARRIED OUT WITH DESIGN PLANS IN HAND.

DEBRIS AND LITTER REMOVAL: DEBRIS AND LITTER WILL ACCUMULATE NEAR THE OUTLET CONTROL DEVICEAND SHOULD BE REMOVED DURING REGULAR INSPECTION AND/OR MOWING OPERATIONS. PARTICULAR ATTENTION SHOULD BE PAID TO FLOATABLE DEBRIS THAT COULD EVENTUALLY CLOG THE CONTROL DEVICE OR RISER.

SEDIMENT REMOVAL: WHEN PROPERLY DESIGNED, DETENTION/WATER QUALITY BASINS WILL ACCUMULATE SEDIMENT OVER TIME. HOWEVER, MOST OF THE SEDIMENT WILL BE TRAPPED IN THE SEDIMENT CHAMBERS AND CATCH BASIN SUMP UNITS BEFORE REACHING THE BASIN. THE REMAINDER WILL ACCUMULATE IN THE STORMWATER POND. ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE BASIN EVERY 5 YEARS, AFTER ONE HALF (15"±) OF THE SEDIMENT STORAGE CAPACITY IN THE FOREBAY HAS BEEN FILLED, AFTER 4 INCHES OF SEDIMENT HAS ACCUMULATED IN THE MAIN PORTION OF THE BASIN, OR WHEN SIGNIFICANT ALGAL GROWTH IS OBSERVED. A PERMANENT MEASURING DEVICE SHALL BE INSTALLED IN THE MIDDLE OF THE FOREBAY AND IN THE MAIN PORTION OF THE BASIN. THE MARKER SHALL DELINEATE INCHES UP FROM THE BOTTOM OF THE BASIN SO THE DEPTH OF SEDIMENT CAN EASILY BE MEASURED. MORE FREQUENT SPOT CLEANOUTS MAY BE NEEDED AROUND THE OUTLET CONTROL DEVICE OR THE SEDIMENT FOREBAY.

SEDIMENT REMOVAL OPERATIONS ARE RELATIVELY SIMPLE. FRONT-END LOADERS, BACKHOES, OR VACUUM TRUCKS CAN BE USED TO REMOVE THE ACCUMULATED SEDIMENT FOLLOWED BY MANUAL REMOVAL OF SEDIMENT DEPOSITED AROUND THE OUTLET CONTROL DEVICE. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS. THE DISTURBED AREA SHOULD BE IMMEDIATELY SEEDED WITH APPROPRIATE GRASS SEED AND MULCHED WITH HAY AFTER REMOVAL OPERATIONS ARE COMPLETED TO PREVENT THE OUTLET CONTROL DEVICE FROM CLOGGING.

D. UNDERGROUND DETENTION SYSTEMS

UNDERGROUND DETENTION SYSTEMS SHALL BE INSPECTED QUARTERLY AND SEDIMENT SHALL BE REMOVED AS NEEDED TO ENSURE PROPER FUNCTIONING OF STRUCTURES. AREAS OF DISTURBANCE THAT MAY BE AS A RESULT OF CLEANING SHALL BE SEEDED AND PLANTED IN ACCORDANCE WITH THE ORIGINAL PLANTING PLAN. THESE STRUCTURES WILL BE MAINTAINED YEARLY, OR MORE FREQUENTLY AS REQUIRED. WASTE MATERIAL WILL BE PROPERLY DISPOSED OF OFF-SITE.

ISOLATOR ROW

THE ISOLATOR ROWS INTEGRATED TO THE STORMWATER CHAMBERS SYSTEMS SHOULD BE MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. AT A MINIMUM, THE MAINTENANCE SCHEDULE SHOULD INCLUDE THE FOLLOWING:

 THE ISOLATOR ROW UNIT SHALL BE COMPLETELY CLEANED OF ACCUMULATED DEBRIS AND SEDIMENTS AT THE COMPLETION OF CONSTRUCTION.
 THE ISOLATOR ROW SHALL BE INSPECTED EVERY 6 MONTHS FOR THE FIRST YEAR OF OPERATION.

 3) FOR SUBSEQUENT YEARS, THE INSPECTION SHOULD BE ADJUSTED BASED UPON PREVIOUS OBSERVATION OF SEDIMENT DEPOSITION. AT A MINIMUM, THE ISOLATOR ROW SHALL BE INSPECTED ANNUALLY.
 4) IE UPON VISUAL INSPECTION THE SEDIMENT DEPOSIT ALONG THE LENGTH OF

4) IF UPON VISUAL INSPECTION THE SEDIMENT DEPOSIT ALONG THE LENGTH OF THE ISOLATOR ROW EXCEEDS 3 INCHES, CLEANOUT SHALL BE PERFORMED.
5) MAINTENANCE IS ACCOMPLISHED WITH THE JETVAC PROCESS.

E. PROPRIETARY HYDRODYNAMIC SEPARATOR

BEFORE BEING DISCHARGED TO THE STORMWATE BASIN, STORMWATER RUNOFF FROM THE ROADWAY AND BUILDING WILL BE DIRECTED TO A HYDRODYNAMIC SEPARATOR. THIS STRUCTURE WILL REMOVE SUSPENDED SOLIDS, DEBRIS AND FLOATABLES CONSTITUENTS FROM STORMWATER. OIL, SCUM, AND SEDIMENT WILL EVENTUALLY ACCUMULATE AND CAN BE REMOVED THROUGH A MANHOLE LOCATED AT THE TOP OF THE SEPARATOR. THIS STRUCTURE WILL BE MAINTAINED YEARLY, OR MORE FREQUENTLY AS REQUIRED. THE UNIT SHOULD BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. WASTE MATERIAL WILL BE PROPERLY DISPOSED OF OFF THE SITE.

F. LAWN AND VEGETATED AREAS

VEGETATED COVER SHALL BE MAINTAINED ON ALL EARTH SURFACES TO MINIMIZE SOIL EROSION. USE OF FERTILIZER SHOULD BE MINIMIZED AND APPLIED USING PRUDENT ORGANIC APPLICATION PROCESSES/METHODS. ROOF GUTTERS

REMOVE ACCUMULATED DEBRIS AND INSPECT FOR CLOGGING AND/OR DAMAGE AT LEAST ONCE A YEAR, TYPICALLY IN THE FALL AFTER THE LEAVES HAVE FALLEN. ANY DAMAGE SHOULD BE REPAIRED AS REQUIRED.

H. AFTER COMPLETION OF CONSTRUCTION THE PROPERTY OWNERS WILL ASSUME RESPONSIBILITY FOR OPERATION AND MAINTENANCE PLAN.

 $I_{DV} = 166.8$

REGULATED ACTIVITY #3 INSTALL SIDEWALK WITHIN UPLAND REVIEW AREA ±160 SQ.FT.

| | A BACBROOM BEALTY DRIVE B9 REALTY DRIVE CHESHIRE, CT 06410 203.271.1773 WWW.MMINC.COM | | | | |
|------------------------|--|---|--|--|--|
| те вү | 5/20 AWG 0/20 AWG | | | | |
| N DATE | NING 11/06/20 TS 12/10/20 | | | | |
| DESCRIPTION | PLANNING AND ZONING TOWN COMMENTS | | | | |
| | SLATE UPPER SCHOOL | 5100 RIDGE ROAD NORTH HAVEN, CONNECTICUT | | | |
| FA DESIGNI SCALE | ed drawn 1"= | 20' | | | |
| DATE | OCTOBER 27, 2020 DATE 6156-03 PROJECT NO. | | | | |
| SHEET | 07 OF 17 SHEET NO. UT-1 | | | | |

SOIL TEST PIT DATA

TP-<u>1-2020</u> 0"-8" TOPSOIL 8"-36" MEDIUM BROWN FINE SILTY LOAM 36"-78" RED SANDY HARDPAN LEDGE: N/A WATER: 71"

TP-2-2020 0"-5" TOPSOIL 5"-29" MEDIUM BROWN FINE SILTY LOAM 29"-72" RED SANDY HARDPAN LEDGE: N/A WATER: N/A MOTTLING: N/A

TP-3-2020 0"-7" TOPSOIL 7"-32" MEDIUM BROWN FINE SILTY LOAM 32"-80" RED SANDY HARDPAN LEDGE: N/A WATER: N/A MOTTLING: N/A

TP-4-2020 0"-6" TOPSOIL 6"-32" MEDIUM BROWN FINE SILTY LOAM 32"-75" RED SANDY HARDPAN LEDGE: N/A WATER: N/A MOTTLING: N/A

TP-5-2020 0"-6" TOPSOIL

6"-27" BROWN SANDY LOAM 27"-76" RED SANDY HARDPAN LEDGE: N/A WATER: N/A MOTTLING: N/A

TP-6-2020 0"-6" TOPSOIL

6"-20" MEDIUM BROWN SANDY LOAM 20"-31" DECOMPOSED ROCK - FRACTURED

TOPSOIL LAYER DEPTH=6" - TP 5 - PROPOSED GRADE - EXISTING GRADE 24" DEEP BY 48" WIDE - CONCRETE LEACHING GALLERY - SELECT FILL HARDPAN LAYER DEPTH=27" - TP 5 - 2:1 SLOPE BOTTOM OF TEST PIT 7 DEPTH=74" SEPTIC SYSTEM INVERT ELEVATIONS: INVERT AT FOUNDATION WALL = 157.0 SEPTIC TANK INLET = 156.0 SEPTIC TANK OUTLET = 155.75 ROW 1 INVERT ELEVATION = 159.25 ROW 1 BOTTOM ELEVATION = 157.25 SECTION A-A 1"=30' HORIZONTAL - 1"=3' VERTICAL

SYSTEM DESIGN

DESIGN BASIS

CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS REVISED JANUARY 1, 2018

DESIGN FLOW

9 GPD (JUNIOR HIGH/ STUDENT)* x 30 STUDENTS = 270 GPD 12 GPD (HIGH SCHOOL/ STUDENT)* x 60 STUDENTS = 720 GPD DESIGN FLOW = 270 GPD + 720 GPD = 990 GPD* TAKEN FROM TABLE 4 OF CT DPH

PERC RATE - 10.1 - 20.0 MIN/INCH EFFECTIVE LEACHING AREA (ELA) REQUIRED = 990 GPD/1.2 GPD PER SQ FT OF ELA* = 825 SQ FT * TAKEN FROM TABLE 8 OF CT DPH (NON RESIDENTIAL WITH NON PROBLEMATIC SEWAGE)

RESTRICTIVE LAYER (RL) = (42"+42"+36"+20")/4 = 35" (AVERAGE OF DEPTH FROM TOP OF LEACHING ROW TO RL IN TPs 5 & 7 AND DEPTH TO RL IN TPs 5 & 8) **SLOPE** = 10.1-15.0% HYDRAULIC FACTOR (HF) = 20

FLOW FACTOR (FF) = 3.3 **PERCOLATION FACTOR (PF) =** 1.25 **MLSS** = 82.5'

PRIMARY AREA - USE 1 ROW OF 112 LF OF 24" X 48" CONCRETE GALLERIES WITH TOP DISTRIBUTION PIPE EFFECTIVE LEACHING AREA PROVIDED = 851.2 SQ FT (112 LF x 7.6 SQ FT/LF)

RESERVE AREA - USE 1 ROW OF 75 LF OF 18" X 36" MANTIS 536-8 EFFECTIVE LEACHING AREA PROVIDED = 825 SW FT (75 LF X 11.0 SQ FT/LF)

31"-58" RED SANDY HARDPAN LEDGE: 58" WATER: N/A MOTTLING: N/A

<u>TP-7-2020</u> 0"-8" TOPSOIL 8"-36" MEDIUM BROWN SANDY LOAM 36"-74" RED SANDY HARDPAN LEDGE: N/A WATER: N/A MOTTLING: N/A

TP-8-2020 0"-13" TOPSOIL 13"-36" MEDIUM BROWN SANDY LOAM 36"-71" RED BROWN FINE SANDY LOAM LEDGE: N/A WATER: N/A MOTTLING: N/A

TP-9-2020 0"-3" TOPSOIL 3"-24" MEDIUM BROWN FINE SANDY LOAM 24"-56" RED BROWN HARDPAN LEDGE: N/A WATER: N/A MOTTLING: N/A

PERCOLATION TEST RESULTS:

| DATE: 5-22-20 | | |
|----------------|--------|--------------------|
| PERC TEST 1-20 | AT 21" | > 60.0 MIN/INCH |
| PERC TEST 2-20 | AT 22" | 10.1-20.0 MIN/INCH |
| PERC TEST 5-20 | AT 22" | 10.1-20.0 MIN/INCH |
| PERC TEST 6-20 | AT 21" | 10.1-20.0 MIN/INCH |



SELECT FILL MATERIAL:

APPROXIMATE LOCATION OF

ABANDONED PER CT PUBLIC

EXISTING SYSTEM TO BE

HEALTH CODE

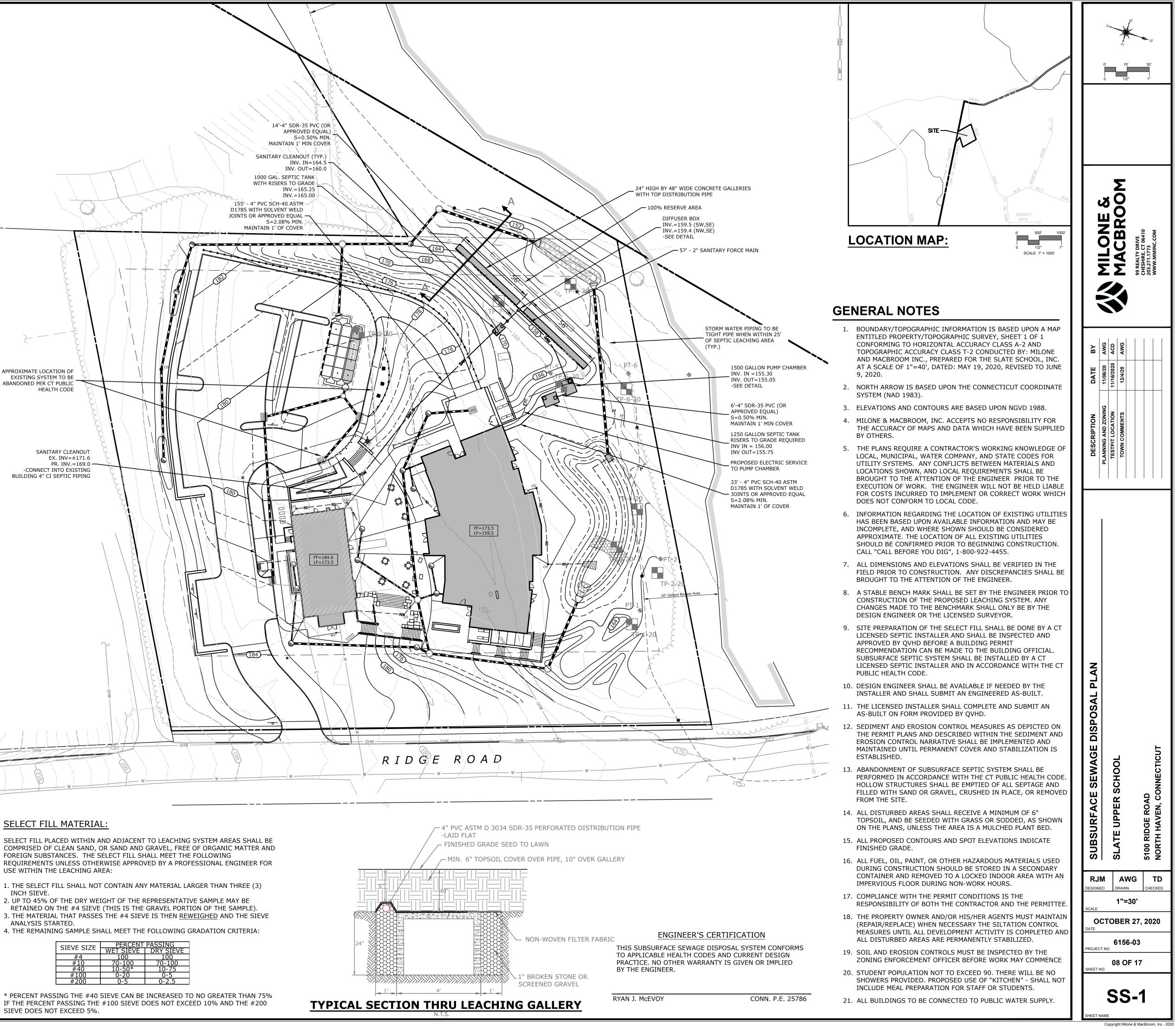
COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE OF ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY A PROFESSIONAL ENGINEER FOR USE WITHIN THE LEACHING AREA:

- INCH SIEVE.
- 3. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN <u>REWEIGHED</u> AND THE SIEVE
- ANALYSIS STARTED. 4. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

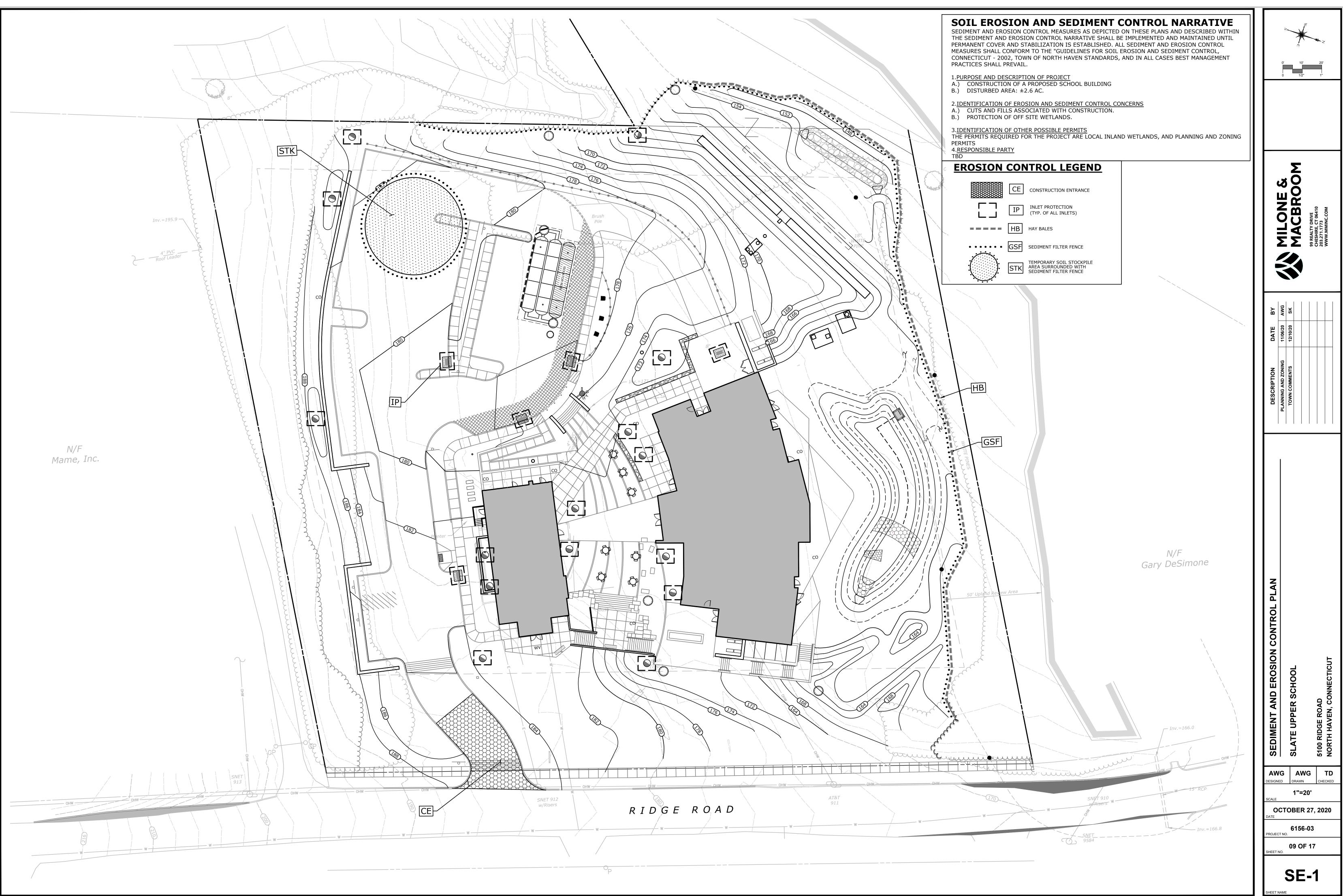
| SIEVE SIZE | PERCENT |
|------------|-----------|
| SILVE SIZE | WET SIEVE |
| #4 | 100 |
| #10 | 70-100 |
| #40 | 10-50* |
| #100 | 0-20 |
| #200 | 0-5 |
| | |

IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.

MOTTLING: N/A







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SEDIMENT & EROSION CONTROL SPECIFICATIONS GENERAL

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLILITION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE EROSION ON THE SITE.

LAND GRADING

GENERAL:

- 1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
- a.THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
- b.THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
- c.THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
- d.PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
- e.EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
- f.NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS.
- g.PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.
- TOPSOILING GENERAL:
- 1. TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.
- 2. UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.
- 3. REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.
- 4. APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.
- MATERIAL:
- 1. TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
- 2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
- 3. TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF STONES (OVER 1" IN DIAMETER), LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, NUTGRASS, AND QUACKGRASS.
- 4. AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) MINIMUM, TWENTY PERCENT (20%) MAXIMUM IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
- 5. SOLUBLE SALT CONTENT OF OVER 500 PARTS PER MILLION (PPM) IS LESS SUITABLE. AVOID TIDAL MARSH SOILS BECAUSE OF HIGH SALT CONTENT AND SULFUR ACIDITY.
- 6. THE pH SHOULD BE MORE THAN 6.0. IF LESS, ADD LIME TO INCREASE pH TO AN ACCEPTABLE LEVEL.

APPLICATION:

- 1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
- 2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST SIX INCHES (6"), OR TO THE DEPTH SHOWN ON THE LANDSCAPING PLANS.

TEMPORARY VEGETATIVE COVER GENERAL

- 1. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.
- SITE PREPARATION:
- 1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- 2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
- 3. APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF ONE (1) TON OF
- GROUND DOLOMITIC LIMESTONE PER ACRE (5 LBS. PER 100 SQ. FT.). 4. APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 300 LBS. OF 10-10-10 PER ACRE (7 LBS. PER 1,000 SQ. FT.) AND SECOND APPLICATION OF 200 LBS. OF 10-10-10- (5 LBS. PER 1,000 SQ. FT.) WHEN GRASS IS FOUR INCHES (4") TO SIX INCHES (6") HIGH. APPLY ONLY WHEN GRASS IS DRY.
- 5. UNLESS HYDROSEEDED, WORK IN LIME AND FERTILIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.
- 6. TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

ESTABLISHMENT:

- 1. SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
- 2. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
- 3. UNLESS HYDROSEEDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL USING SUITABLE EQUIPMENT.
- 4. MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW OR HAY MULCH AND ANCHOR TO SLOPES GREATER THAN 3% OR WHERE CONCENTRATED FLOW WILL OCCUR.

PERMANENT VEGETATIVE COVER

GENERAL:

- 1. PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL. REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.
- SITE PREPARATION:
- 1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- 2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
- 3. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE
- 4. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
- 5. APPLY FERTILIZER ACCORDING TO SOIL TEST AND AS SPECIFIED.

VEGETATIVE COVER SELECTION & MULCHING

TEMPORARY VEGETATIVE COVER:

PERENNIAL RYEGRASS 3 LBS./1,000 SQ.FT. (IOLUIUM PERENNE)

PERMANENT VEGETATIVE COVER: SEE LANDSCAPING PLAN

| EROSION CONTROL MAINTENANCE INTERVALS | | | | | |
|--|--|--|---|---------------------------------------|--|
| EROSION CONTROL MEASURE | CONTROL OBJECTIVE | INSPECTION/MAINTENANCE | FAILURE INDICATORS | | |
| TEMPORARY SEDIMENT TRAP (TST) | - DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL DISTURBED AREAS LONG ENOUGH TO ALLOW A MAJORITY OF THE SEDIMENT TO SETTLE OUT. | INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. STONE OUTLET SHOULD BE AT LEAST 1 FOOT BELOW CREST OF EMBANKMENT. SEDIMENT MUST BE REMOVED WHEN ACCUMULATION REACHES ½ OF THE REQUIRED WET STORAGE. | - TURBID WATER - EXCESSIVE SEDIMENT ACCUMULATION - OVERTOPPING EVIDENCE | TST N CONT PERM | |
| TEMPORARY SEDIMENT BASIN (DETENTION BASIN) (SB/PST) | INTERCEPT/RETAIN SEDIMENT DURING CONSTRUCTION. PREVENT TRANSPORT AND DEPOSITION OF SEDIMENT OFF CONSTRUCTION SITE. | INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER. CLEAN OUT SEDIMENT WHEN ACCUMULATION EXCEEDS ½ OF THE WET STORAGE CAPACITY OR WHEN DEPTH OF AVAILABLE POOL IS REDUCED TO 181. PLACE STAKES OR OTHER MEANS TO INDICATE THE THRESHOLD ELEVATION FOR SEDIMENT CLEANOUT. | - TURBID WATER - EXCESSIVE SEDIMENT ACCUMULATION - OVERTOPPING EVIDENCE - EROSION OF EMBANKMENTS | TEMP ARE 1 DETE ONCE AREA | |
| SILT FENCE (SF) (RELATED: IP, STK) | INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. DECREASE VELOCITY OF SHEET FLOW. PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW. | INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE ITS DEPTH IS EQUAL TO ½ THE TRENCH HEIGHT. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS. | PHYSICAL DAMAGE OR DECOMPOSITION EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE REPETITIVE FAILURE | SILT I UPHIL BEEN | |
| HAY BALES (HB) | INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. DECREASE VELOCITY OF SHEET FLOW. PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW. | INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE THE DEPTH OF SEDIMENT IS EQUAL TO ½ THE HEIGHT OF THE BARRIER. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS. | PHYSICAL DAMAGE OR DECOMPOSITION EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE REPETITIVE FAILURE | HAY E UPHII PERM | |
| CONSTRUCTION ENTRANCE (CE) | - REDUCE THE TRACKING OF SEDIMENT OFF-SITE ONTO PAVED SURFACES. | INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC ADDITION OF STONE, OR LENGTHENING OF ENTRANCE MAY BE REQUIRED AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES AS A RESULT OF INEFFICIENCY OF CONSTRUCTION ENTRANCE SHALL BE IMMEDIATELY REMOVED. | - SEDIMENT IN ROADWAY ADJACENT TO SITE | CONS REMC PERM OTHE BEEN | |
| CATCH BASIN INLET PROTECTION (IP) | - PROHIBIT SILT IN CONSTRUCTION-RELATED RUNOFF FROM ENTERING STORM DRAINAGE SYSTEM. | INSPECT AFTER ANY RAIN EVENT. IF FILTER BAG INSIDE CATCH BASIN CONTAINS MORE THAN 6î OF SEDIMENT, REMOVE SEDIMENT FROM BAG. CHECK SURROUNDING SILT FENCE AND HAY BALES PER NOTED ABOVE. | - RIPPED BAG - FAILED HAY BALES / SILT FENCE - SIGNIFICANT SILT PRESENCE IN STORM DRAINAGE SYSTEM OUTFLOW. | INLET ONCE PERM SECT PERM | |
| STOCKPILE PROTECTION (STK) | - RETAIN SOIL STOCKPILE IN LOCATIONS SPECIFIED, AND REDUCE WATER-TRANSPORT. | INSPECT SILT FENCE AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC REINFORCEMENT OF SILT FENCE, OR ADDITION OF HAY BALES MAY BE NECESSARY. | - EVIDENCE OF STOCK PILE DIMINISHING DUE TO RAIN EVENTS - FAILURE OF SILT FENCE | STOC REMC USED | |

TEMPORARY MULCHING:

STRAY OR HAY 70-90 LBS./1,000 SQ.FT. (TEMPORARY VEGETATIVE AREAS)

WOOD FIBER IN HYDROMULCH SLURRY 25-50 LBS./1,000 SQ. FT.

ESTABLISHMENT:

- 1. SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
- 2. SELECT ADAPTED SEED MIXTURE FOR THE SPECIFIC SITUATION. NOTE RATES AND THE SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPEC. BELOW).
- 3. APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
- 4. COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
- 5. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO TEMPORARY MULCHING SPECIFICATIONS. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
- 6. USE PROPER INOCULANT ON ALL LEGUME SEEDINGS, USE FOUR (4) TIMES NORMAL RATES WHEN HYDROSEEDING.
- 7. USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IN CRITICAL AREAS WHERE IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER TO PREVENT EROSION.

MAINTENANCE:

- 1. TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LIME AS REQUIRED. 2. ON SITES WHERE GRASSES PREDOMINATE, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (12 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.
- 3. ON SITES WHERE LEGUMES PREDOMINATE, BROADCAST EVERY THREE (3) YEARS OR AS INDICATED BY SOIL TEST 300 POUNDS OF 0-20-20 OR EQUIVALENT PER ACRE (8 LBS PER 1,000 SQ. FT.).

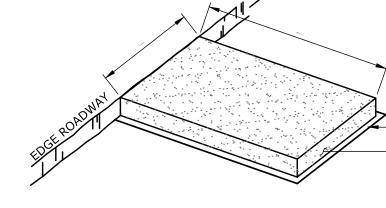
EROSION CHECKS

GENERAL:

1. TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

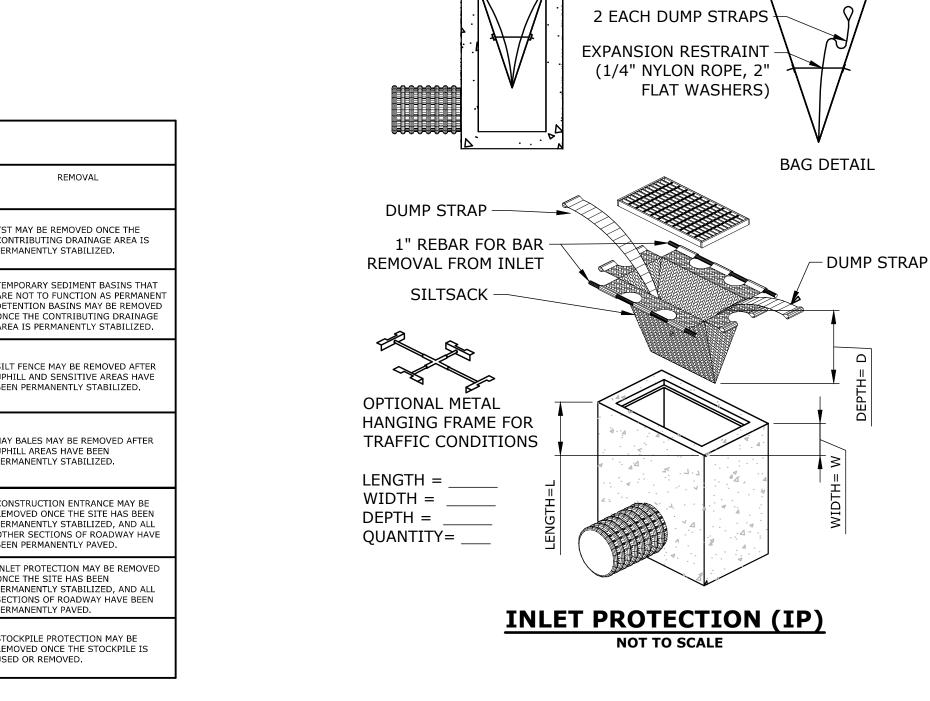
CONSTRUCTION:

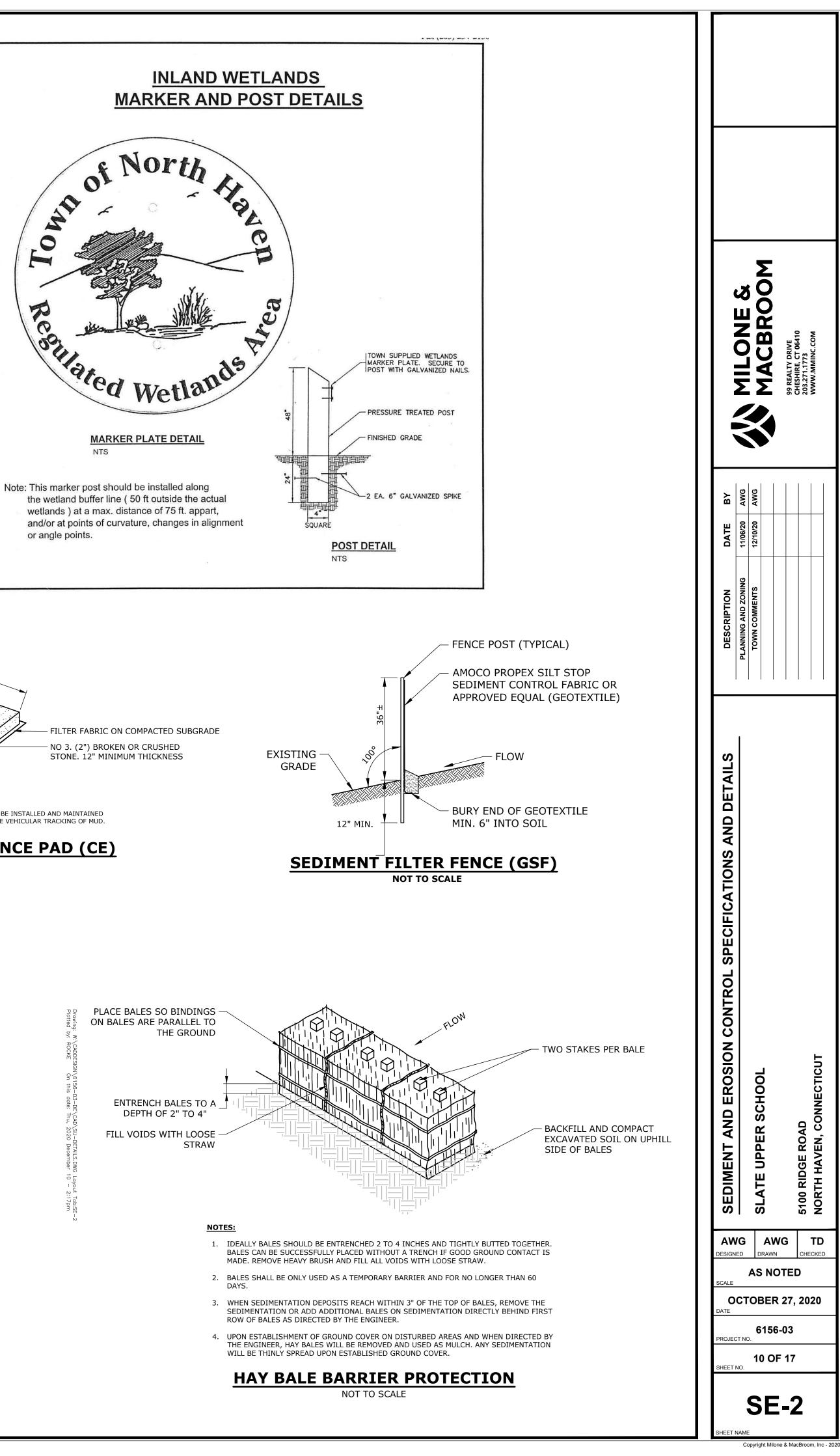
- 1. BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- 2. EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
- 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- 4. GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').
- INSTALLATION AND MAINTENANCE: 1. BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
- 2. BALED HAY EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
- 3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
- 4. INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 5. EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.



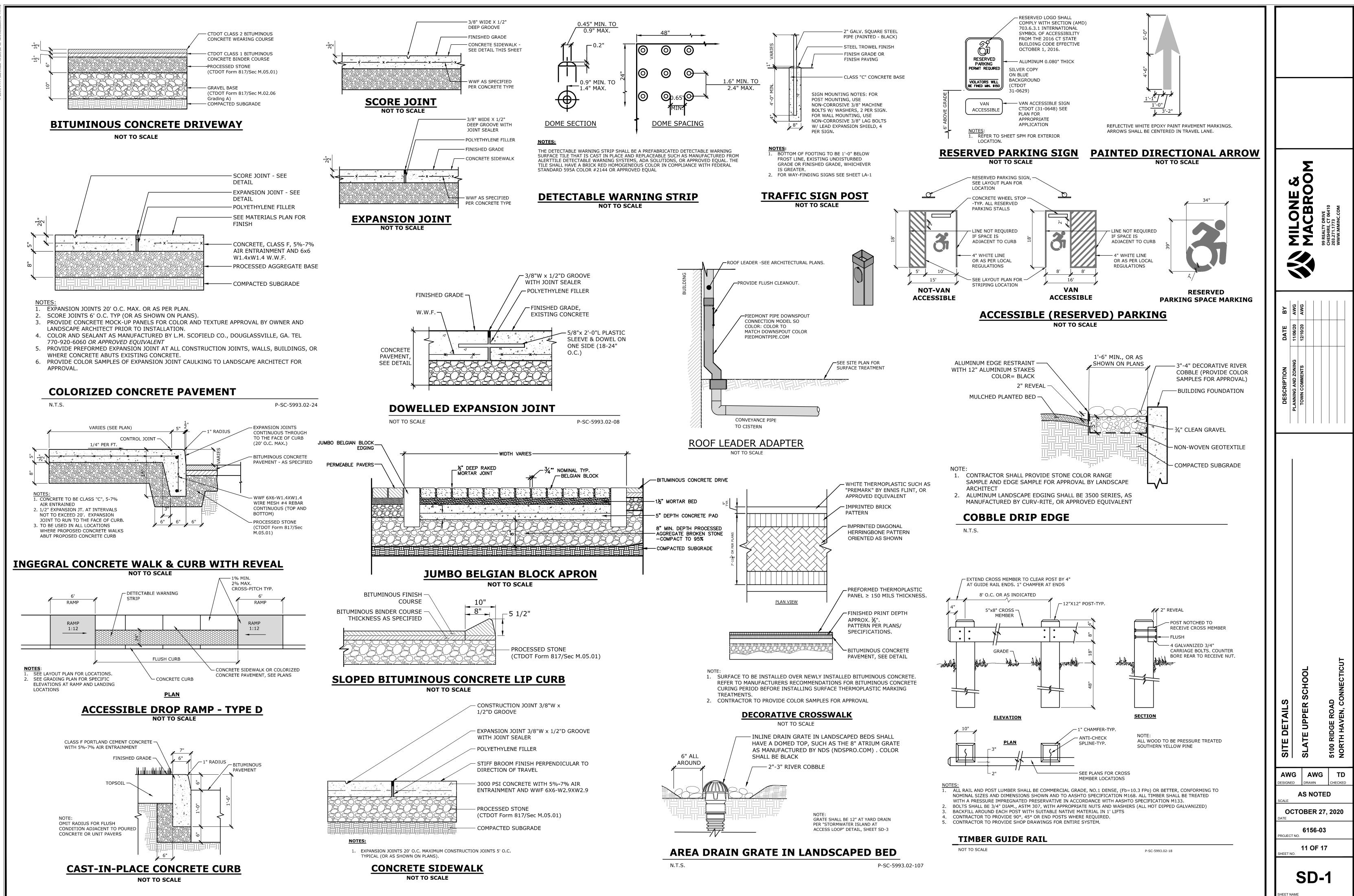
1. CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH GENERATE VEHICULAR TRACKING OF MUD.

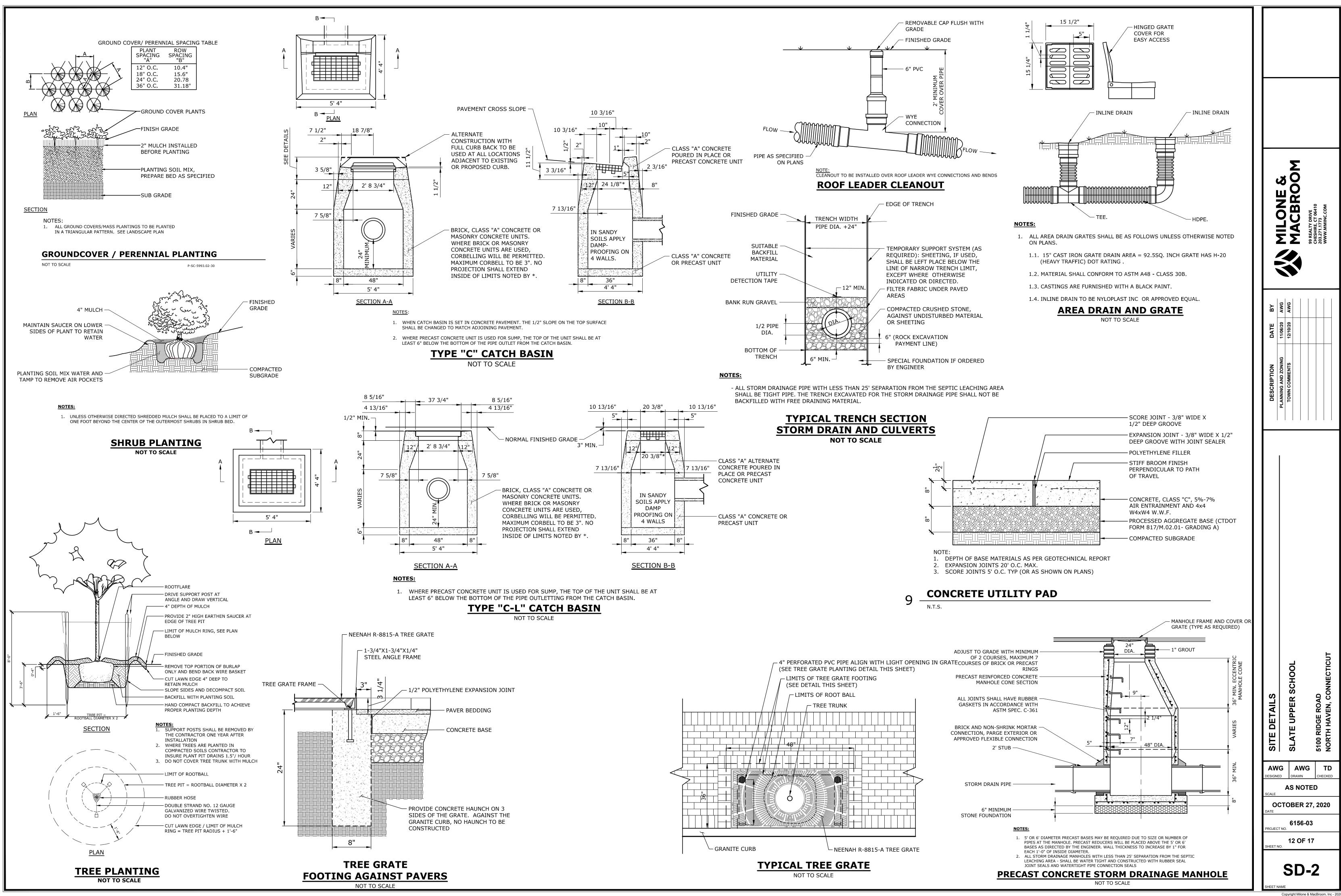
CONSTRUCTION ENTRANCE PAD (CE) NOT TO SCALE

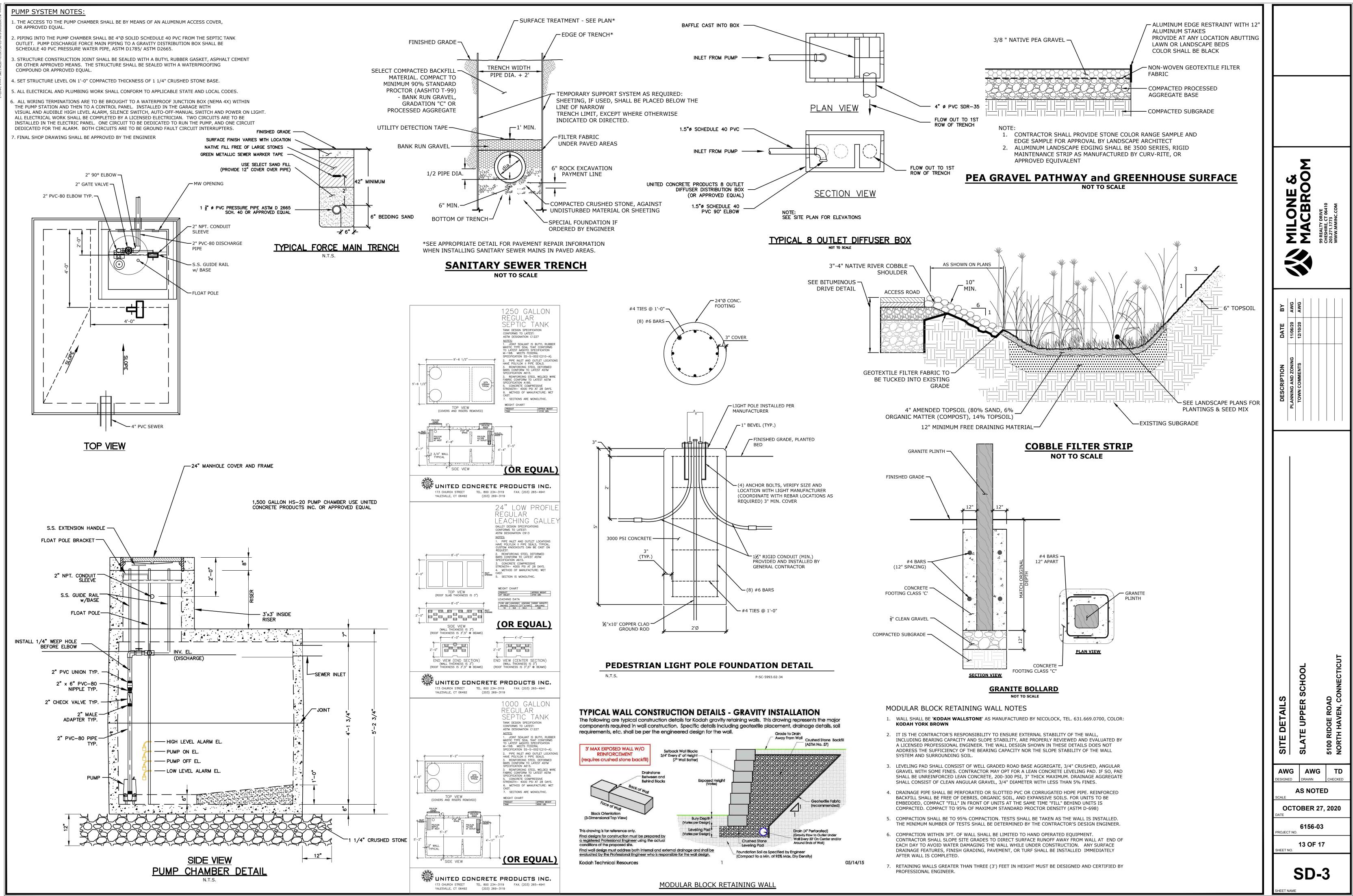




NOTES



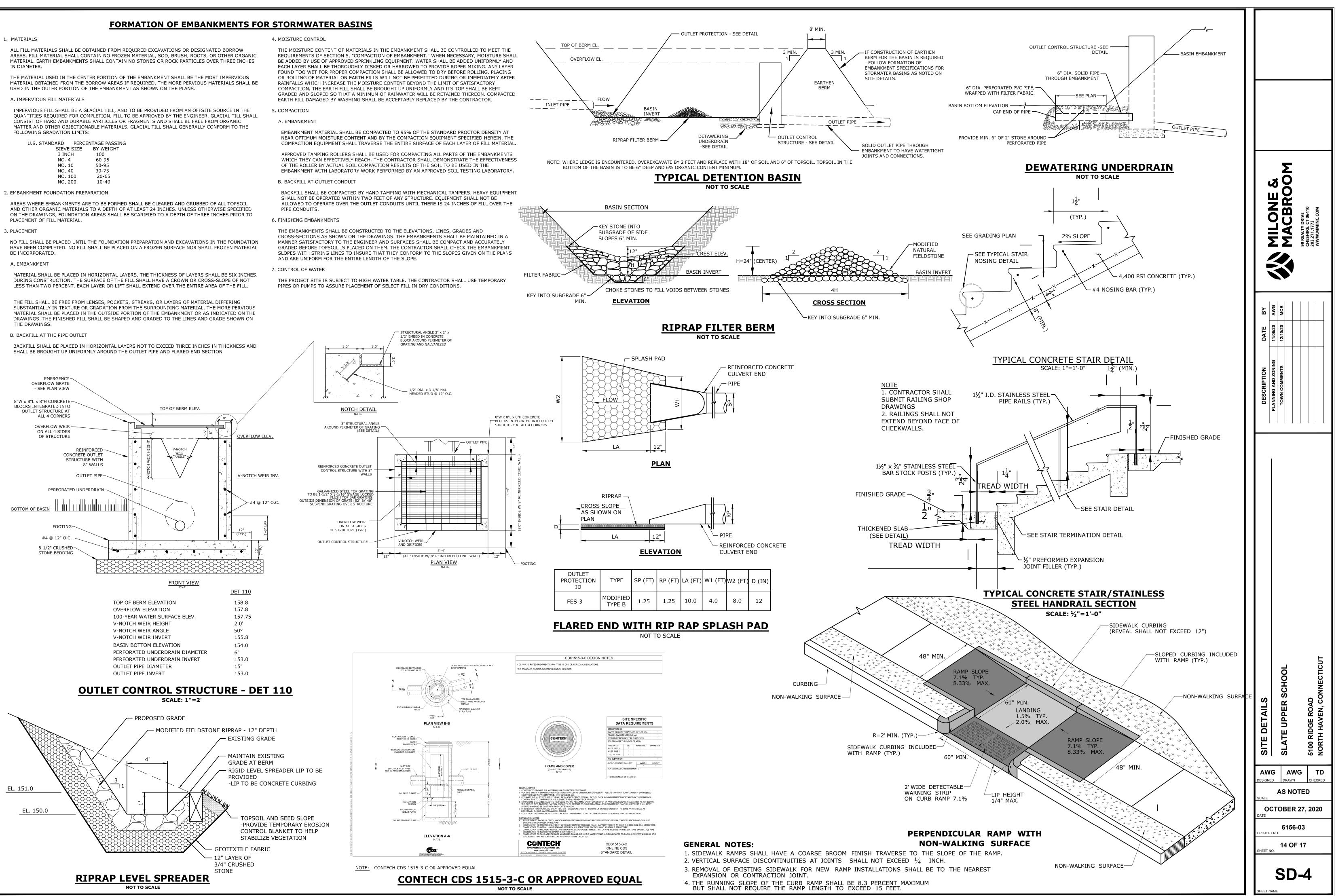




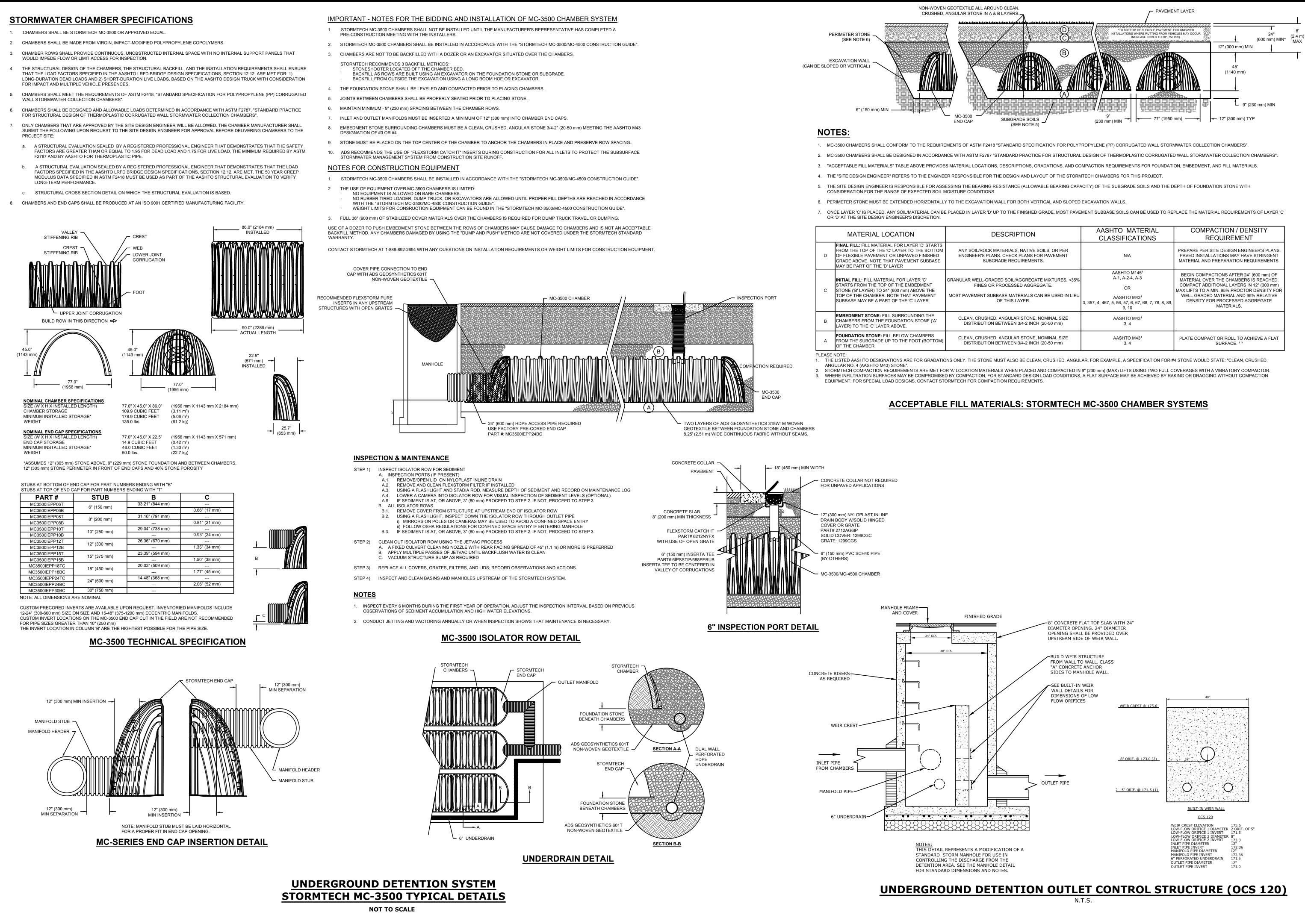
| U.S. STANDARD | PERCE | PERCENTAGE PASSING | |
|---------------|-------|--------------------|--|
| SIEVE | SIZE | BY WEIGHT | |
| 3 INC | Η | 100 | |
| | | 60 OF | |

| NO. 4 | 60-95 |
|---------|-------|
| NO. 10 | 50-95 |
| NO. 40 | 30-75 |
| NO. 100 | 20-65 |
| NO. 200 | 10-40 |
| | |

PIPE CONDUITS.



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| OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION. | | | | | |
|--|---|--|------------------------------------|---|--|
| MATERIAL LOCATION | | DESCRIPTION | AASHTO MATERIAL CLASSIFICATIONS | COMPACTION / DENSITY REQUIREMENT | |
| D | FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. | N/A | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. | |
| С | INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | OR | 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. | |
| В | EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm) | AASHTO M43 ¹ 3, 4 | | |
| А | FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. | CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm) | AASHTO M43 ¹ 3, 4 | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ² ³ | |

