

SLATE UPPER SCHOOL

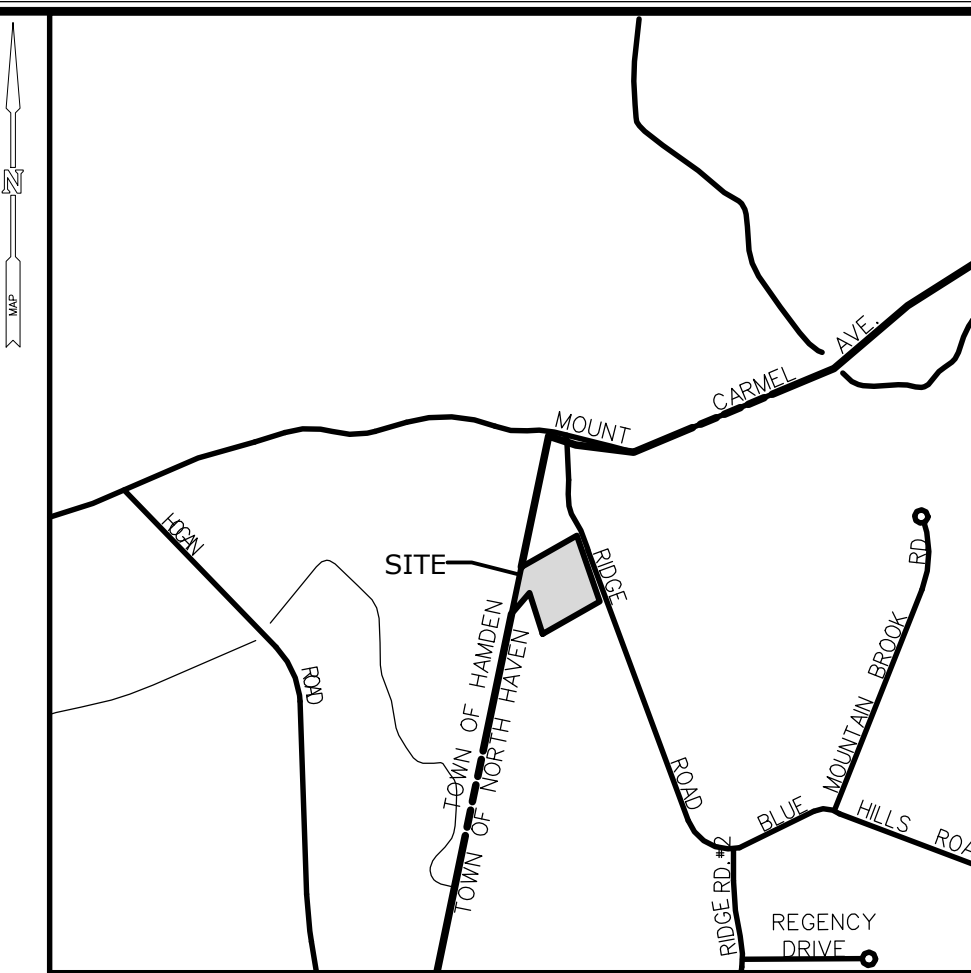
5100 RIDGE ROAD
NORTH HAVEN, CONNECTICUT

REGULATORY SUBMISSION

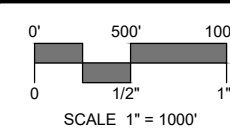
OCTOBER 27, 2020 (INLAND WETLANDS)
REVISED: NOVEMBER 6, 2020 (PLANNING AND ZONING)
REVISED: FEBRUARY 17, 2021
REVISED: MARCH 25, 2021 (DOH COMMENTS)
REVISED: JUNE 2, 2021 (FINAL SUBMITTED PLAN - COA)
▲ REVISED: AUGUST 9, 2021 (PLANNING AND ZONING)



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LOCATION MAP:



GENERAL NOTES

- 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.
- 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.
- 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.
- MILONE & MACBROOM, INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
- 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.
- 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.
- ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
- ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO TOWN OF NORTH HAVEN REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 817 AND ADDENDUMS.
- 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.
- 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.
- COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE.
- 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.
- SOIL AND EROSION CONTROLS SHALL BE INSPECTED BY THE ZONING ENFORCEMENT OFFICER BEFORE COMMENCEMENT OF WORK.
- 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.
- ANY PROPOSED SIGNAGE OR FENCING WILL REQUIRE THE FILING OF APPLICATIONS WITH THE ZONING ENFORCEMENT OFFICER.
- AT PROJECT COMPLETION AN AS-BUILT SURVEY WILL BE PREPARED AND SUBMITTED FOR BOND RELEASE.
- THE PROPERTY IS IN THE AQUIFER PROTECTION AREA.
- INLAND WETLANDS APPLICATION #I20-06, PERMIT TO CONDUCT REGULATED ACTIVITY AND SITE PLAN REFERRAL.
- PLANNING AND ZONING: #P20-38S, SPECIAL PERMIT, #P20-38, SITE PLAN.
- SOIL AND EROSION CONTROLS MUST BE INSPECTED BY THE ZONING ENFORCEMENT OFFICER BEFORE WORK MAY COMMENCE.
- SUBMIT AN AS-BUILT PRIOR TO BOND RELEASE.
- NO OUTSIDE STORAGE WILL BE ALLOWED ON THE PROPERTY.
- ON-SITE REFUELING AND/ OR REPAIR OF TRUCKS, VEHICLES AND/ OR ANY FUEL BURNING EQUIPMENT IS PROHIBITED.
- PROPOSED SIGNAGE OR FENCING WILL REQUIRE THE FILING OF APPLICATIONS WITH THE ZONING ENFORCEMENT OFFICER.

CONSTRUCTION SEQUENCE

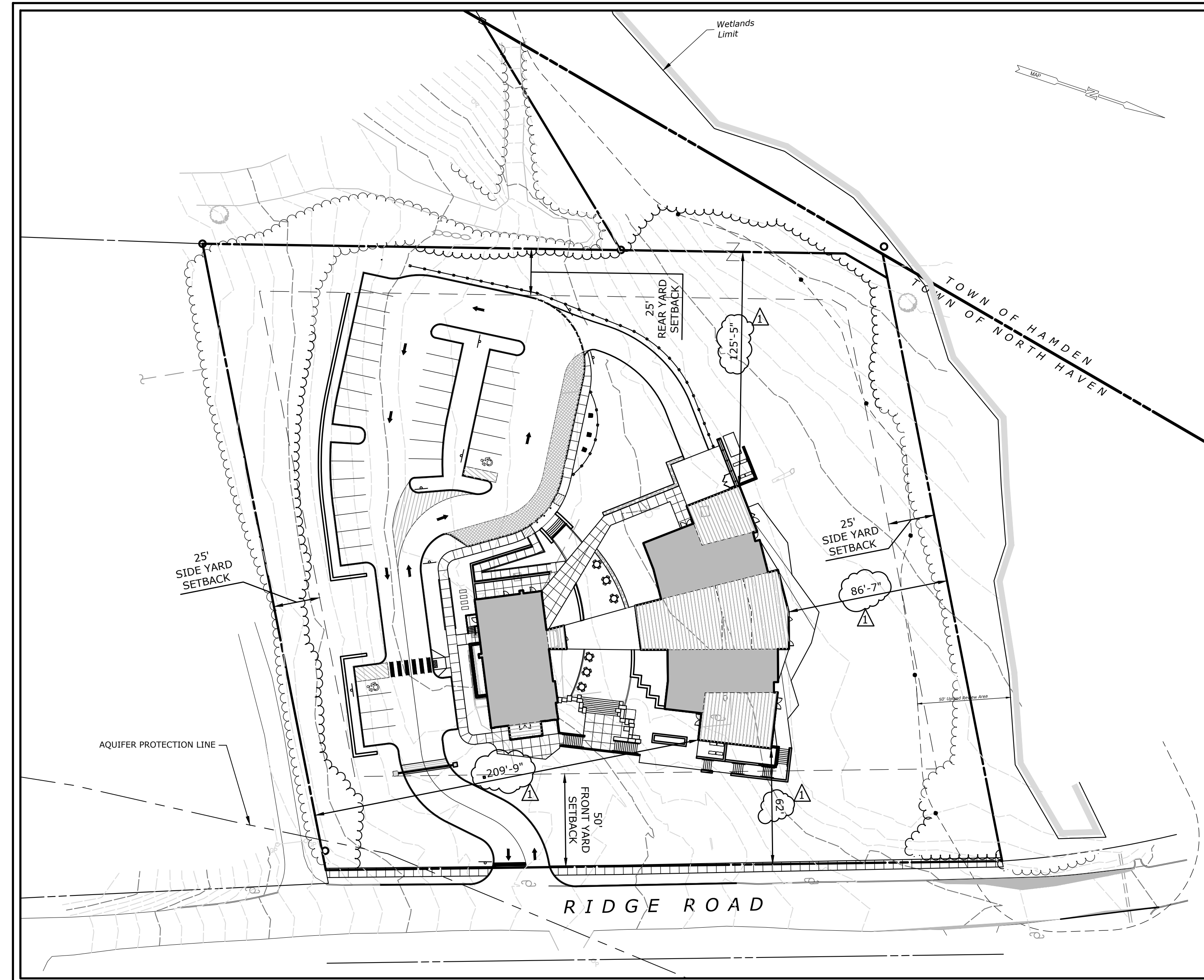
- PRIOR TO COMMENCEMENT OF WORK A PRECONSTRUCTION MEETING SHALL BE HELD WITH TOWN STAFF AND REPRESENTATIVES OF THE CONTRACTOR AND OWNER. AT THIS MEETING, ONE PERSON WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE ENTIRE SITE.
- CONTRACTOR TO STAKE OUT LIMIT OF DISTURBANCE AND VEGETATION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

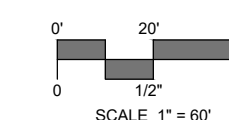
- TEMPORARY SEDIMENT BASINS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER. CLEAN THE SEDIMENT BASIN WHEN SEDIMENT ACCUMULATION EXCEEDS ONE HALF THE WET STORAGE CAPACITY OF THE BASIN OR WHEN THE DEPTH OF AVAILABLE POOL IS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

ZONING DATA TABLE

EXISTING ZONE		PROVIDED	
ZONE	REQUIREMENT	REQ'D/PERMITTED	PROVIDED
R-40	MAP-BLOCK-LOT	NHA 970/002	
MINIMUM	MINIMUM LOT AREA	40,000 S.F.	129,185 S.F. (2,966 A.C.)
	LOT WIDTH	150 FT.	363.27 FT.
	FRONT YARD	50 FT.	62 FT.
	SIDE YARDS	25 FT.	209.75 FT. & 86.583 FT.
	REAR YARD	25 FT.	125.41 FT.
MAXIMUM	BUILDING HEIGHT	35 FT.	27 FT. (from average grade)
	BUILDING COVERAGE	15%	10,582 S.F. (8%)



PROJECT SITE VICINITY MAP:



PREPARED FOR:

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

PREPARED BY:



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

LIST OF DRAWINGS

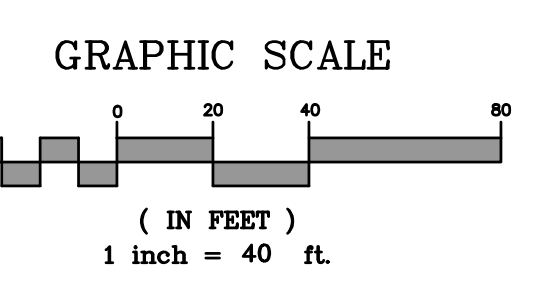
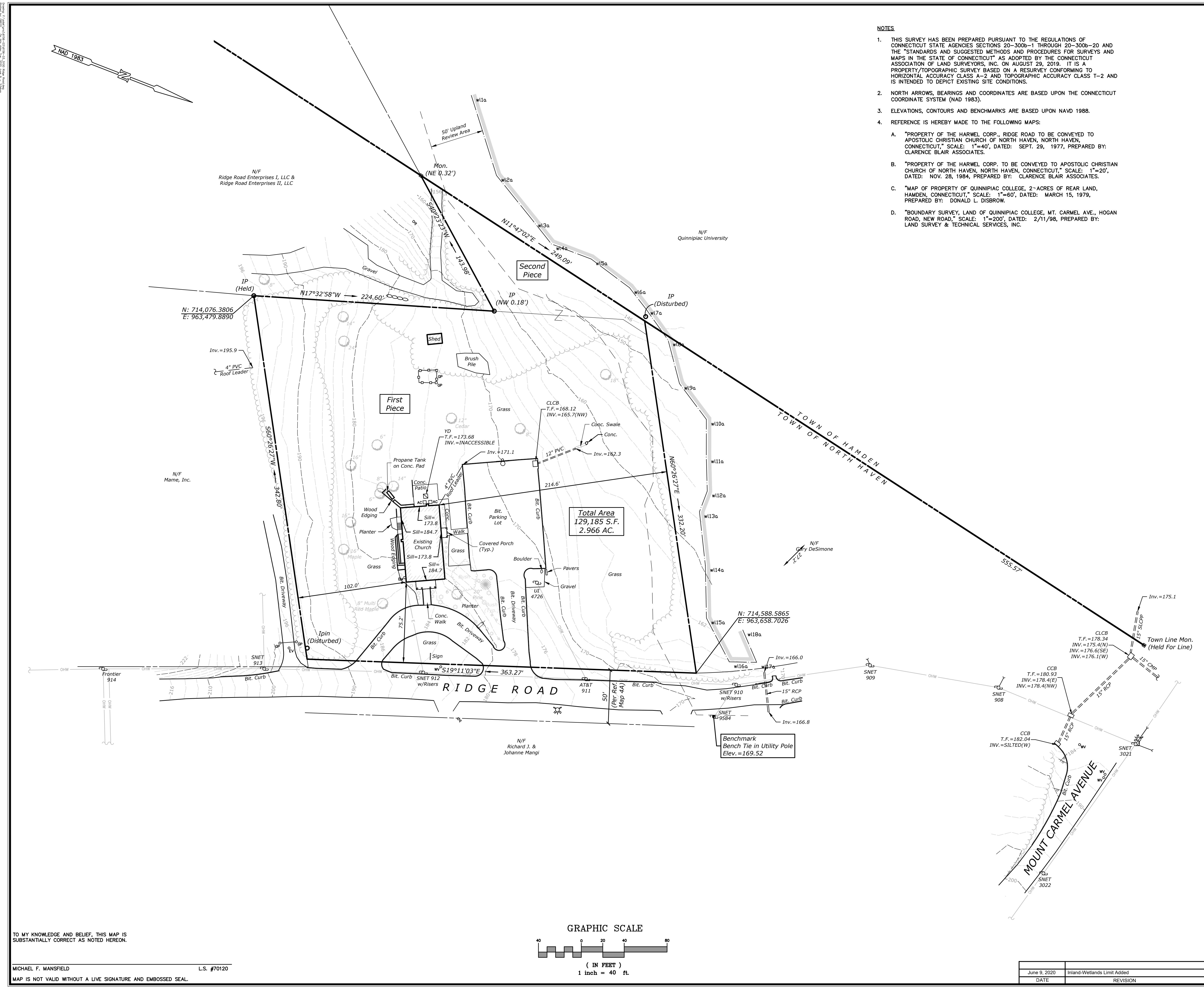
NO.	NAME	TITLE
01	--	TITLE SHEET
02	1 OF 1	PROPERTY/ TOPOGRAPHIC SURVEY
03	EX-1	EXISTING CONDITIONS AND REMOVALS PLAN
04	LA-1	SITE PLAN - LAYOUT
05	LS-1	SITE PLAN - LANDSCAPING
06	GR-1	SITE PLAN - GRADING
07	UT-1	SITE PLAN - UTILITIES
08	SS-1	SUBSURFACE SEWAGE DISPOSAL PLAN
09	SE-1	SEDIMENT AND EROSION 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	L-1	PHOTOMETRIC CALCULATION

- NOTES**
- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUGUST 29, 2019. IT IS A PROPERTY/TOPOGRAPHIC SURVEY BASED ON A RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND TOPOGRAPHIC ACCURACY CLASS T-2 AND IS INTENDED TO DEPICT EXISTING SITE CONDITIONS.
 - NORTH ARROWS, BEARINGS AND COORDINATES ARE BASED UPON THE CONNECTICUT COORDINATE SYSTEM (NAD 1983).
 - ELEVATIONS, CONTOURS AND BENCHMARKS ARE BASED UPON NAVD 1988.
 - REFERENCE IS HEREBY MADE TO THE FOLLOWING MAPS:
 - "PROPERTY OF THE HARWEL CORP., RIDGE ROAD TO BE CONVEYED TO APOSTOLIC CHRISTIAN CHURCH OF NORTH HAVEN, NORTH HAVEN, CONNECTICUT," SCALE: 1"=40', DATED: SEPT. 29, 1977, PREPARED BY: CLARENCE BLAIR ASSOCIATES.
 - "PROPERTY OF THE HARWEL CORP. TO BE CONVEYED TO APOSTOLIC CHRISTIAN CHURCH OF NORTH HAVEN, NORTH HAVEN, CONNECTICUT," SCALE: 1"=20', DATED: NOV. 28, 1984, PREPARED BY: CLARENCE BLAIR ASSOCIATES.
 - "MAP OF PROPERTY OF QUINNIPIAC COLLEGE, 2-ACRES OF REAR LAND, HAMDEN, CONNECTICUT," SCALE: 1"=60', DATED: MARCH 15, 1979, PREPARED BY: DONALD L. DISBROW.
 - "BOUNDARY SURVEY, LAND OF QUINNIPIAC COLLEGE, MT. CARMEL AVE., HOGAN ROAD, NEW ROAD," SCALE: 1"=200', DATED: 2/11/98, PREPARED BY: LAND SURVEY & TECHNICAL SERVICES, INC.

LOCATION MAP
SCALE: 1"=1000'

LEGEND

- TOWN LINE
- STREET LINE
- PROPERTY LINE
- STONEWALL
- TREELINE
- FENCE
- E ELECTRIC LINE
- OHW OVERHEAD WIRES
- CATCH BASIN
- YARD DRAIN
- WV WATER VALVE
- GP GATE POST
- P POST
- EV ELECTRIC VAULT
- EM ELECTRIC METER
- UP UTILITY POLE
- GW GUY WIRE
- H HYDRANT
- L LIGHT POST
- S SIGN
- M MAILBOX
- IP IRON PIPE FOUND
- IPH IRON PIN FOUND
- MCF MONUMENT FOUND



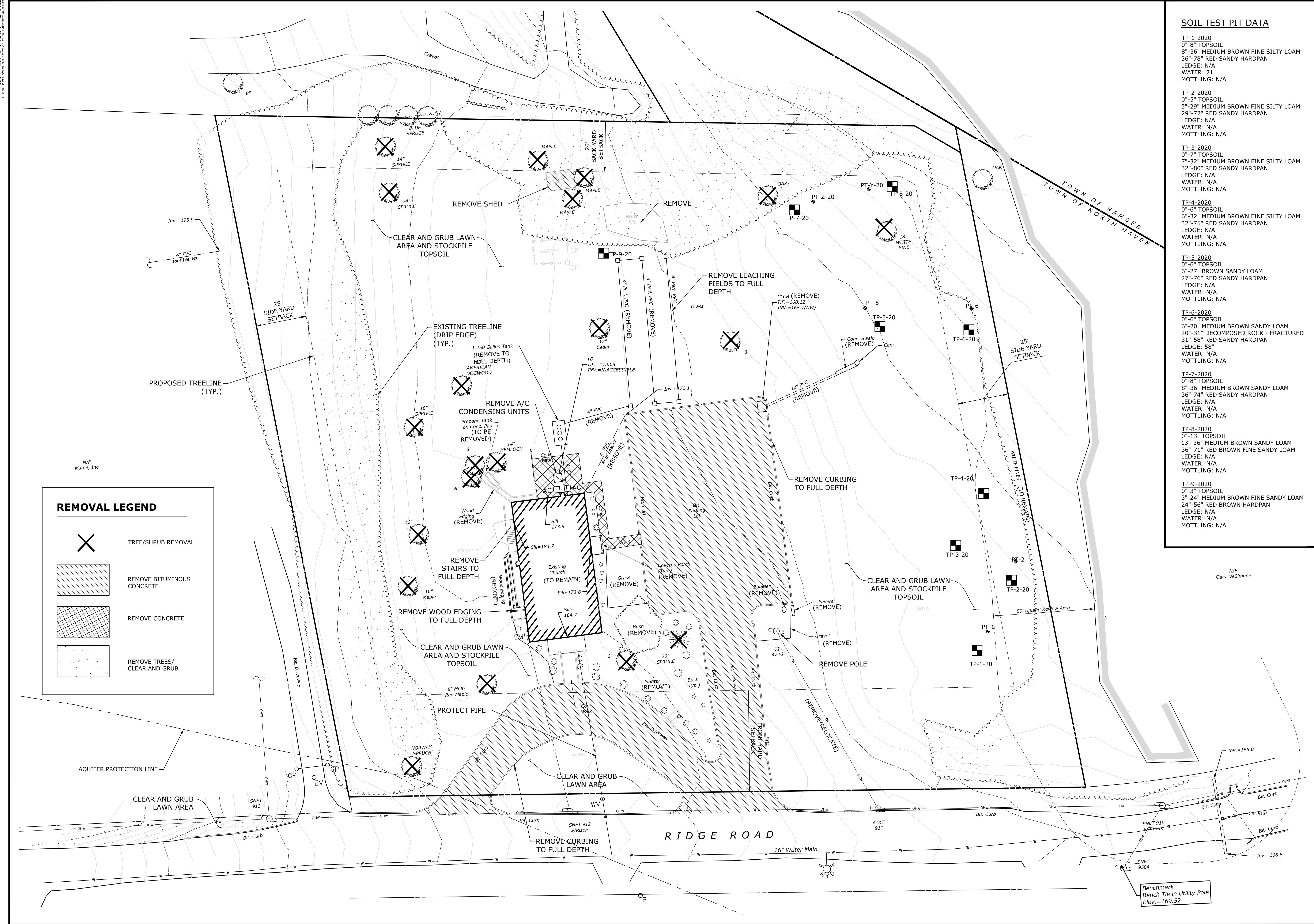
TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

MICHAEL F. MANSFIELD L.S. #70120
MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND EMBOSSED SEAL.

PROPERTY/TOPOGRAPHIC SURVEY

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

JG/RC	MDP	MFM		6156-03
FIELD	DRAWN	CHECKED		PROJECT NO.
SCALE: 1"=40'			99 REALTY DRIVE CHESTER, CT 06410 203.271.1773 WWW.MILONE.COM	1 OF 1
DATE	MAY 19, 2020			SHEET NO.
DATE	REVISION			



SOIL TEST PIT DATA

TP-1-2020
 0'-3" TOPSOIL
 8"-36" MEDIUM BROWN FINE SILTY LOAM
 36"-78" RED SANDY HARDPAN
 LEDGE: N/A
 WATER: 71"
 MOTTLING: N/A

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

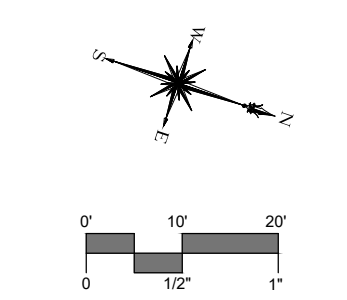
TP-7-2020
 0'-8" TOPSOIL
 8"-36" MEDIUM BROWN SANDY LOAM
 36"-74" RED SANDY HARDPAN
 LEDGE: N/A
 WATER: N/A
 MOTTLING: N/A

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

REMOVAL LEGEND

	TREE/SHRUB REMOVAL
	REMOVE BITUMINOUS CONCRETE
	REMOVE CONCRETE
	REMOVE TREES/CLEAR AND GRUB



DESCRIPTION	DATE	BY
PLANNING AND ZONING	11/05/20	AVG
TOWN COMMENTS	01/09/20	NCR
WETLANDS HEARING RESPONSE	02/17/21	JW
FINAL SUBMITTED PLAN - COA	08/22/21	LI

EXISTING CONDITIONS AND REMOVAL PLAN
 SLATE UPPER SCHOOL
 PROJECT NAME 2
 5100 RIDGE ROAD
 NORTH HAVEN, CONNECTICUT

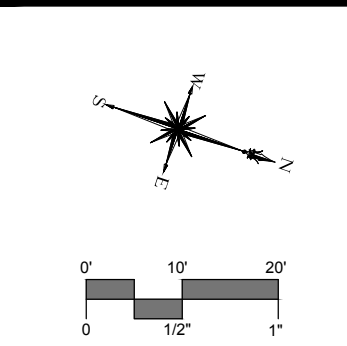
JW	BK	JW
DESIGNED	DRAWN	CHECKED
SCALE: 1"=20'		
DATE: OCTOBER 27, 2020		
PROJECT NO: 6156-03		
SHEET NO: 03 OF 15		

EX-1



N/F Mame, Inc.

N/F Gary DeSimone

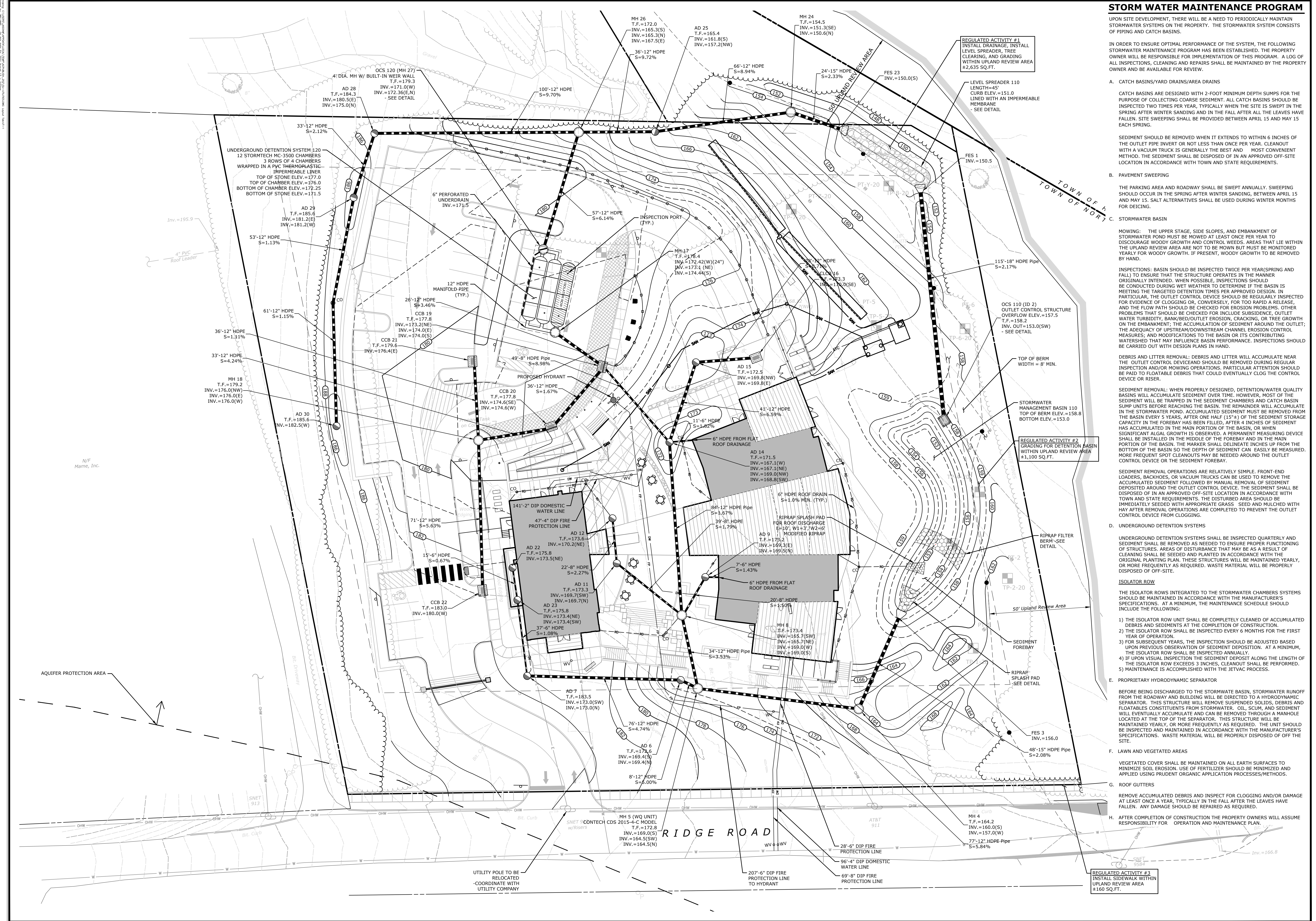


DESCRIPTION	DATE	BY
PLANNING AND ZONING	11/09/20	JW
TOWN COMMENTS	12/10/20	NK
WETLANDS HEARING RESPONSE	02/17/21	JW
DOT COMMENTS	03/25/21	AWG
COMMENT RESPONSE LETTER P&Z	05/14/21	JW
FINAL SUBMITTED PLAN - COA	06/02/21	AWG
PLANNING AND ZONING	08/05/21	JW

SITE PLAN - GRADING
SLATE UPPER SCHOOL
 5100 RIDGE ROAD
 NORTH HAVEN, CONNECTICUT

JW	BK	JW
DESIGNED	DRAWN	CHECKED
SCALE 1"=20'		
DATE OCTOBER 27, 2020		
PROJECT NO. 6156-03		
SHEET NO. 06 OF 15		

GR-1



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 SWEEP 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 SWEEP 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.

C. 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, FOR TOO RAPID A RELEASE. 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 DEVICE AND 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 (1/2") 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:

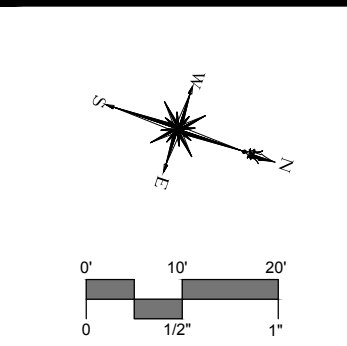
- 1) THE ISOLATOR ROW UNIT SHALL BE COMPLETELY CLEANED OF ACCUMULATED DEBRIS AND SEDIMENTS AT THE COMPLETION OF CONSTRUCTION.
- 2) THE ISOLATOR ROW SHALL BE INSPECTED EVERY 6 MONTHS FOR THE FIRST YEAR OF OPERATION.
- 3) FOR SUBSEQUENT YEARS, THE INSPECTION SHOULD BE ADJUSTED BASED UPON PREVIOUS OBSERVATION OF SEDIMENT DEPOSITION. AT A MINIMUM, THE ISOLATOR ROW SHALL BE INSPECTED ANNUALLY.
- 4) 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 JET/VAC PROCESS.

E. PROPRIETARY HYDRODYNAMIC SEPARATOR
 BEFORE BEING DISCHARGED TO THE STORMWATER 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.

G. 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.



DESCRIPTION	DATE	BY	
		AWG	AWG
PLANNING AND ZONING	11/05/20	AWG	AWG
TOWN COMMENTS	12/10/20	AWG	AWG
WATER LINE REVISIONS	2/14/21	PAB	PAB
WETLANDS HEARING RESPONSE	2/17/21	PAB	PAB
DOT COMMENTS	3/25/21	PAB	PAB
COMMENT RESPONSE LETTER P&Z	5/14/21	PAB	PAB
FINAL SUBMITTED PLAN - COA	8/22/21	AWG	AWG
PLANNING AND ZONING	8/26/21	AWG	AWG

SITE PLAN - UTILITIES
SLATE UPPER SCHOOL
 5100 RIDGE ROAD
 NORTH HAVEN, CONNECTICUT

FAB	AWG	TD
DESIGNED	DRAWN	CHECKED
SCALE: 1"=20'		
DATE: OCTOBER 27, 2020		
PROJECT NO.: 6156-03		
SHEET NO.: 07 OF 15		
SHEET NAME: UT-1		

SOIL TEST PIT DATA

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

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"-75" 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

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

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

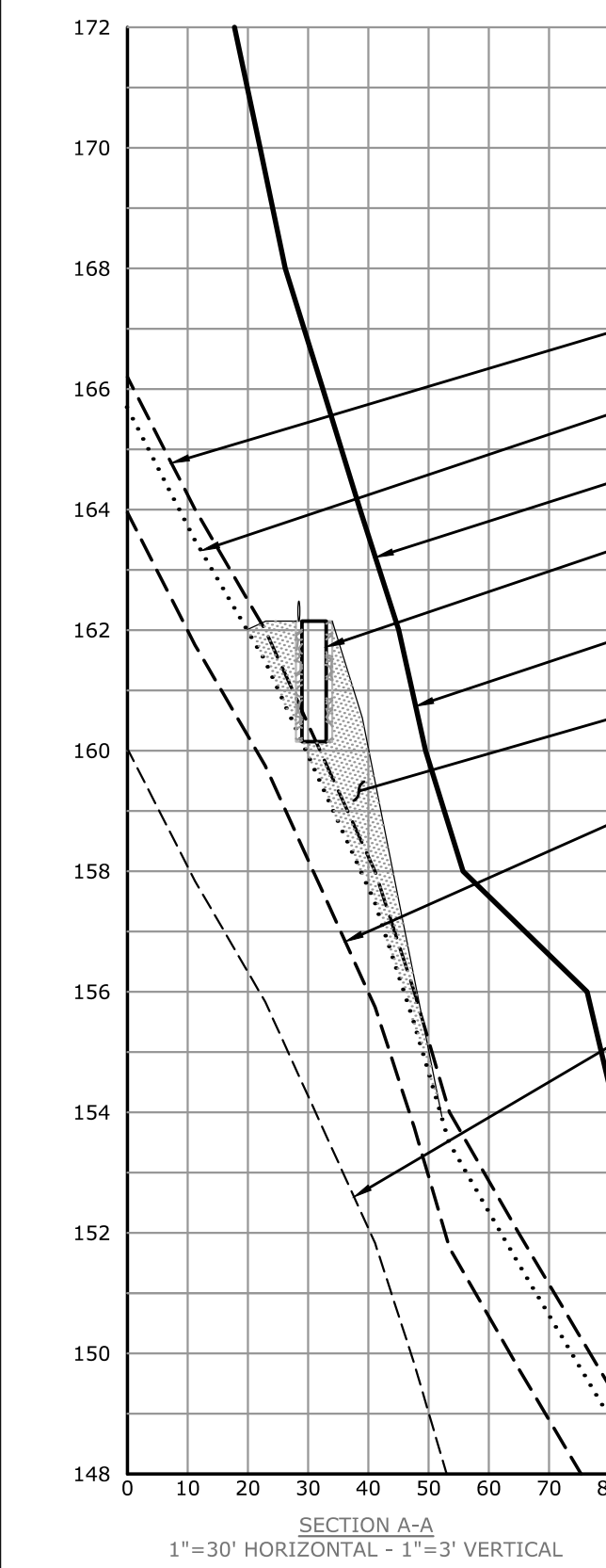
TP-8-2020
 0"-13" TOPSOIL
 13"-36" MEDIUM BROWN SANDY LOAM
 36"-71" RED BROWN FINE SANDY LOAM
 LEDGE: N/A
 WATER: N/A
 MOTTLING: N/A

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

DATE: 12-31-2020
 PERC TEST Y-2020 AT 24" 10.1-20.0 MIN/INCH
 PERC TEST Z-2020 AT 24" 10.1-20.0 MIN/INCH



SEPTIC SYSTEM INVERT ELEVATIONS:

INVERT AT FOUNDATION WALL = 157.0
 SEPTIC TANK INLET = 156.0
 SEPTIC TANK OUTLET = 155.75
 ROW 1 INVERT ELEVATION = 162.15
 ROW 1 BOTTOM ELEVATION = 160.15

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)

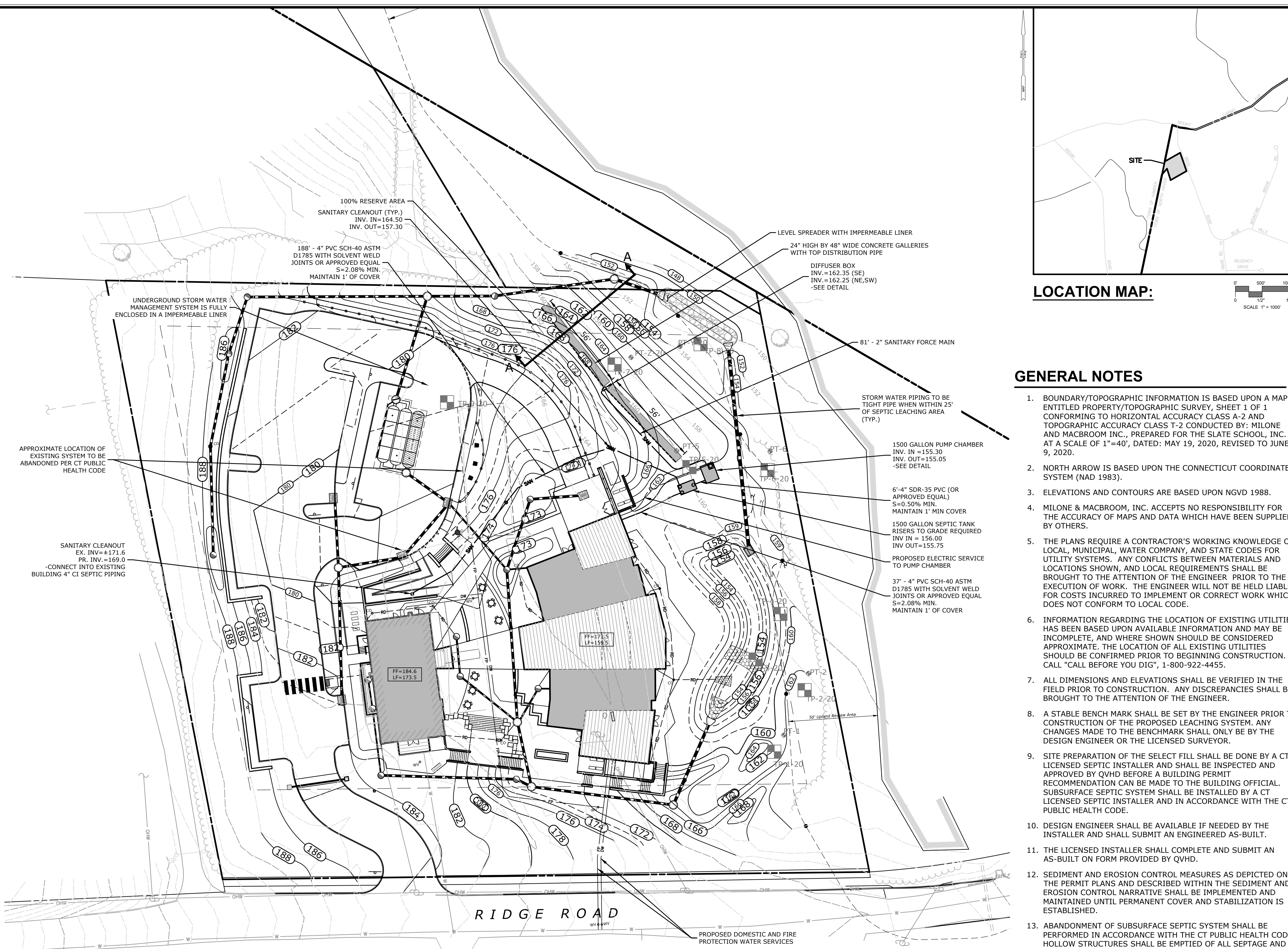
SELECT FILL MATERIAL:

SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE 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:

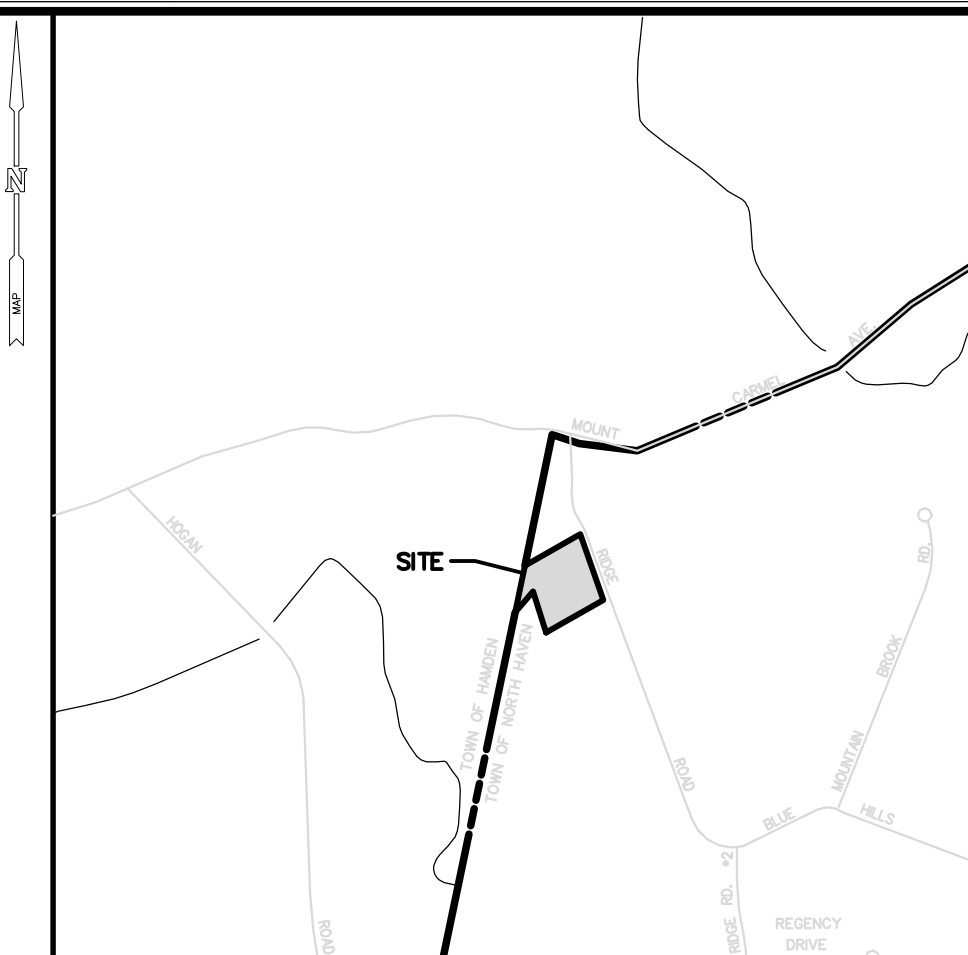
1. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THREE (3) INCH SIEVE.
2. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
3. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.
4. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA:

SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	DRY SIEVE
#4	100	100
#10	70-100	70-100
#40	10-50*	10-25
#100	0-20	0-5
#200	0-5	0-2.5

* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.

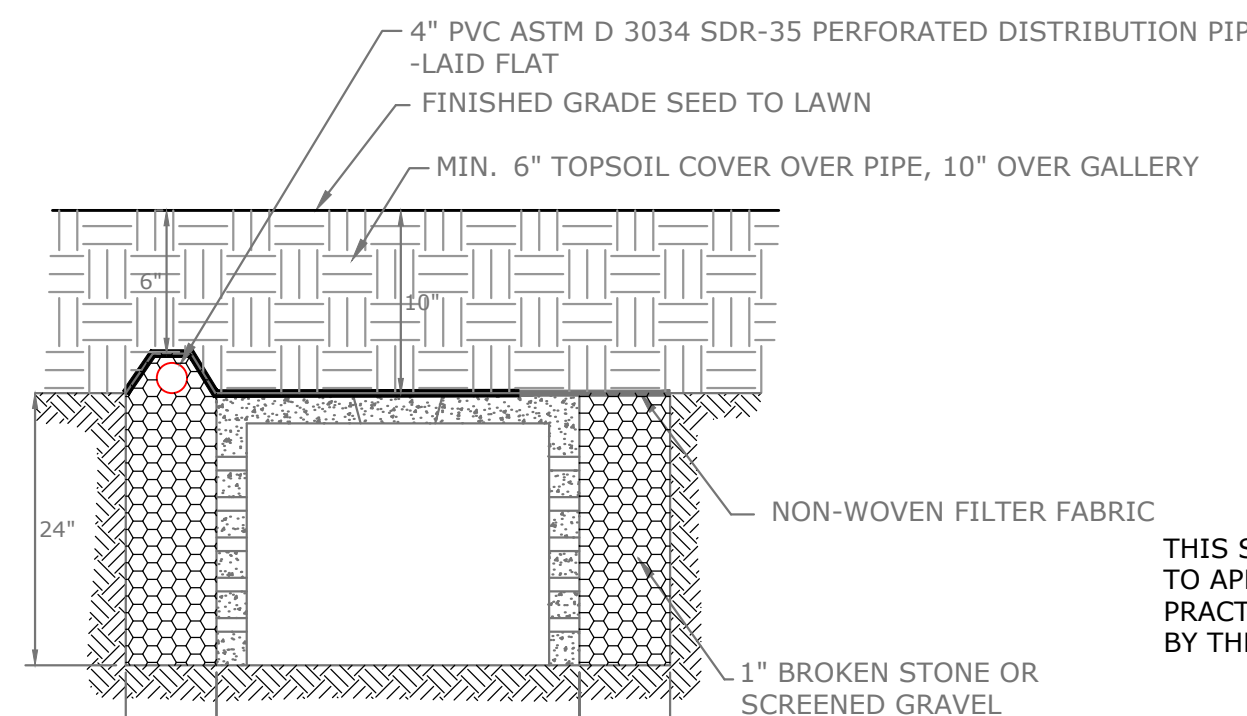


LOCATION MAP:



GENERAL NOTES

1. BOUNDARY/TOPOGRAPHIC 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, REVISED TO JUNE 9, 2020.
2. NORTH ARROW IS BASED UPON THE CONNECTICUT COORDINATE SYSTEM (NAD 1983).
3. ELEVATIONS AND CONTOURS ARE BASED UPON NGVD 1988.
4. MILONE & MACBROOM, INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
5. 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.
6. 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.
7. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
8. A STABLE BENCH MARK SHALL BE SET BY THE ENGINEER PRIOR TO CONSTRUCTION OF THE PROPOSED LEACHING SYSTEM. ANY CHANGES MADE TO THE BENCHMARK SHALL ONLY BE BY THE DESIGN ENGINEER OR THE LICENSED SURVEYOR.
9. SITE PREPARATION OF THE SELECT FILL SHALL BE DONE BY A CT LICENSED SEPTIC INSTALLER AND SHALL BE INSPECTED AND APPROVED BY QVHD BEFORE A BUILDING PERMIT RECOMMENDATION CAN BE MADE TO THE BUILDING OFFICIAL. SUBSURFACE SEPTIC SYSTEM SHALL BE INSTALLED BY A CT LICENSED SEPTIC INSTALLER AND IN ACCORDANCE WITH THE CT PUBLIC HEALTH CODE.
10. DESIGN ENGINEER SHALL BE AVAILABLE IF NEEDED BY THE INSTALLER AND SHALL SUBMIT AN ENGINEERED AS-BUILT.
11. THE LICENSED INSTALLER SHALL COMPLETE AND SUBMIT AN AS-BUILT ON FORM PROVIDED BY QVHD.
12. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THE PERMIT PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED.
13. ABANDONMENT OF SUBSURFACE SEPTIC SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE CT PUBLIC HEALTH CODE. HOLLOW STRUCTURES SHALL BE EMPTIED OF ALL SEPTAGE AND FILLED WITH SAND OR GRAVEL, CRUSHED IN PLACE, OR REMOVED FROM THE SITE.
14. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" TOPSOIL AND BE SEEDED WITH GRASS OR SODDED, AS SHOWN ON THE PLANS, UNLESS THE AREA IS A MULCHED PLANT BED.
15. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
16. 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.
17. COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE.
18. 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.
19. SOIL AND EROSION CONTROLS MUST BE INSPECTED BY THE ZONING ENFORCEMENT OFFICER BEFORE WORK MAY COMMENCE.
20. STUDENT POPULATION NOT TO EXCEED 90. THERE WILL BE NO SHOWERS PROVIDED. PROPOSED USE OF "KITCHEN" - SHALL NOT INCLUDE MEAL PREPARATION FOR STAFF OR STUDENTS.
21. ALL BUILDINGS TO BE CONNECTED TO PUBLIC WATER SUPPLY.



ENGINEER'S CERTIFICATION

THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM CONFORMS TO APPLICABLE HEALTH CODES AND CURRENT DESIGN PRACTICE. NO OTHER WARRANTY IS GIVEN OR IMPLIED BY THE ENGINEER.

RYAN J. McEVROY CONN. P.E. 25786

TYPICAL SECTION THRU LEACHING GALLERY

MILONE & MACBROOM
 99 BEAITY DRIVE
 CHESTER, CT 06410
 WWW.MILONE.COM

DESCRIPTION	DATE	BY
PLANNING AND ZONING	11/19/20	AWG
TESTPIT LOCATION	11/19/20	AWG
TOWN COMMENTS	12/14/20	AWG
ADDITIONAL PERC TESTS	1/16/21	AWG
CONVERSION TO ONE SEPTIC TANK	2/10/21	AWG
LEACHING FIELD RELOCATION	3/10/21	AWG
RESERVE LEACHING FIELD	3/23/21	AWG

SUBSURFACE SEWAGE DISPOSAL PLAN

SLATE UPPER SCHOOL

5100 RIDGE ROAD
 NORTH HAVEN, CONNECTICUT

RJM	AWG	TD
DESIGNED	DRAWN	CHECKED

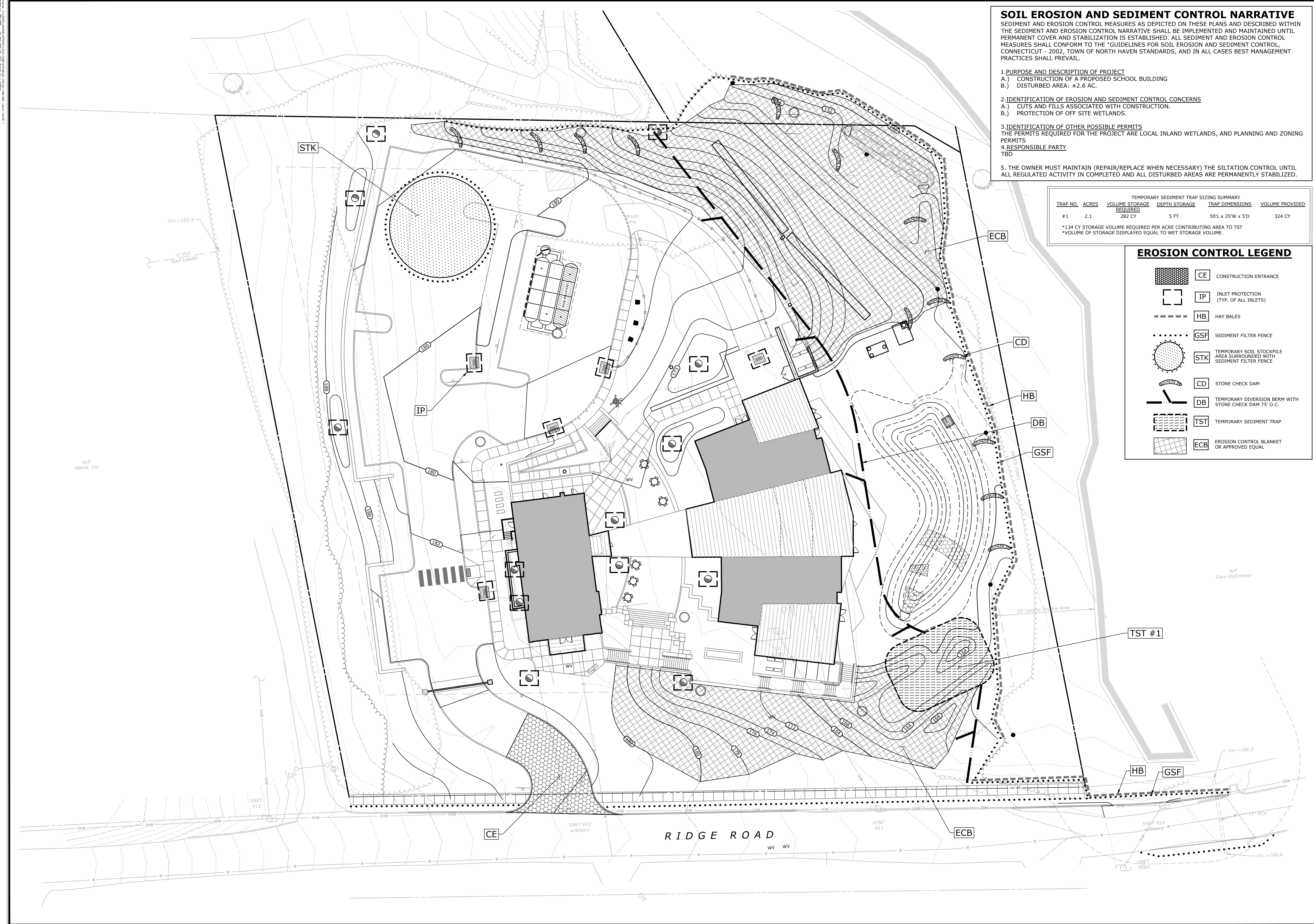
SCALE: 1"=30'

DATE: **OCTOBER 27, 2020**

PROJECT NO.: **6156-03**

SHEET NO.: **08 OF 15**

SS-1



SOIL EROSION AND SEDIMENT CONTROL NARRATIVE
 SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, TOWN OF NORTH HAVEN STANDARDS, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

- PURPOSE AND DESCRIPTION OF PROJECT**
 A.) CONSTRUCTION OF A PROPOSED SCHOOL BUILDING
 B.) DISTURBED AREA: ±2.6 AC.
- IDENTIFICATION OF EROSION AND SEDIMENT CONTROL CONCERNS**
 A.) CUTS AND FILLS ASSOCIATED WITH CONSTRUCTION.
 B.) PROTECTION OF OFF SITE WETLANDS.
- IDENTIFICATION OF OTHER POSSIBLE PERMITS**
 THE PERMITS REQUIRED FOR THE PROJECT ARE LOCAL INLAND WETLANDS, AND PLANNING AND ZONING PERMITS
- RESPONSIBLE PARTY**
 TBD
- THE OWNER MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SILTATION CONTROL UNTIL ALL REGULATED ACTIVITY IN COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.**

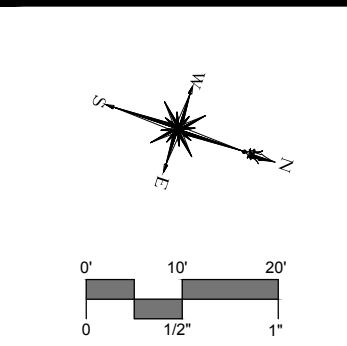
TEMPORARY SEDIMENT TRAP SIZING SUMMARY

TRAP NO.	ACRES	VOLUME STORAGE REQUIRED	DEPTH STORAGE	TRAP DIMENSIONS	VOLUME PROVIDED
#1	2.1	282 CY	5 FT	50'L x 35'W x 5'D	324 CY

*134 CY STORAGE VOLUME REQUIRED PER ACRE CONTRIBUTING AREA TO TST
 *VOLUME OF STORAGE DISPLAYED EQUAL TO WET STORAGE VOLUME.

EROSION CONTROL LEGEND

	CE	CONSTRUCTION ENTRANCE
	IP	INLET PROTECTION (TYP. OF ALL INLETS)
	HB	HAY BALES
	GSF	SEDIMENT FILTER FENCE
	STK	TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE
	CD	STONE CHECK DAM
	DB	TEMPORARY DIVERSION BERM WITH STONE CHECK DAM 75' O.C.
	TST	TEMPORARY SEDIMENT TRAP
	ECB	EROSION CONTROL BLANKET OR APPROVED EQUAL



DESCRIPTION	DATE	BY
PLANNING AND ZONING	11/05/20	AWG
TOWN COMMENTS	12/10/20	SK
WETLANDS HEARING RESPONSE	2/17/21	AWG
DOR COMMENTS	3/25/21	AWG
COMMENT RESPONSE LETTER P&Z	5/14/21	AWG
FINAL SUBMITTED PLAN - COA	06/02/21	AWG
PLANNING AND ZONING	08/05/21	AWG

SEDIMENT AND EROSION CONTROL PLAN
SLATE UPPER SCHOOL
 5100 RIDGE ROAD
 NORTH HAVEN, CONNECTICUT

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED
SCALE		
1"=20'		
DATE		
OCTOBER 27, 2020		
PROJECT NO.		
6156-03		
SHEET NO.		
09 OF 15		

SE-1

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 POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INsofar AS POSSIBLE, EROSION ON THE SITE.

LAND GRADING

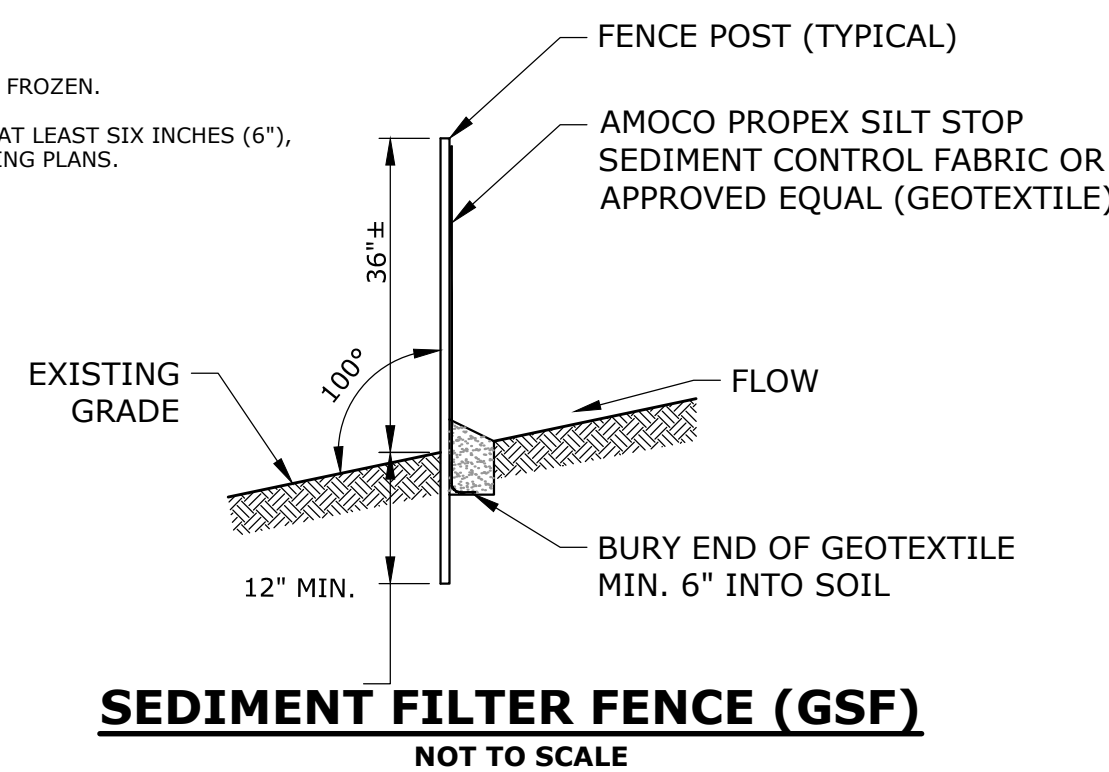
- GENERAL:**
1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
 - a. THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
 - b. THE PERMANENT 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.

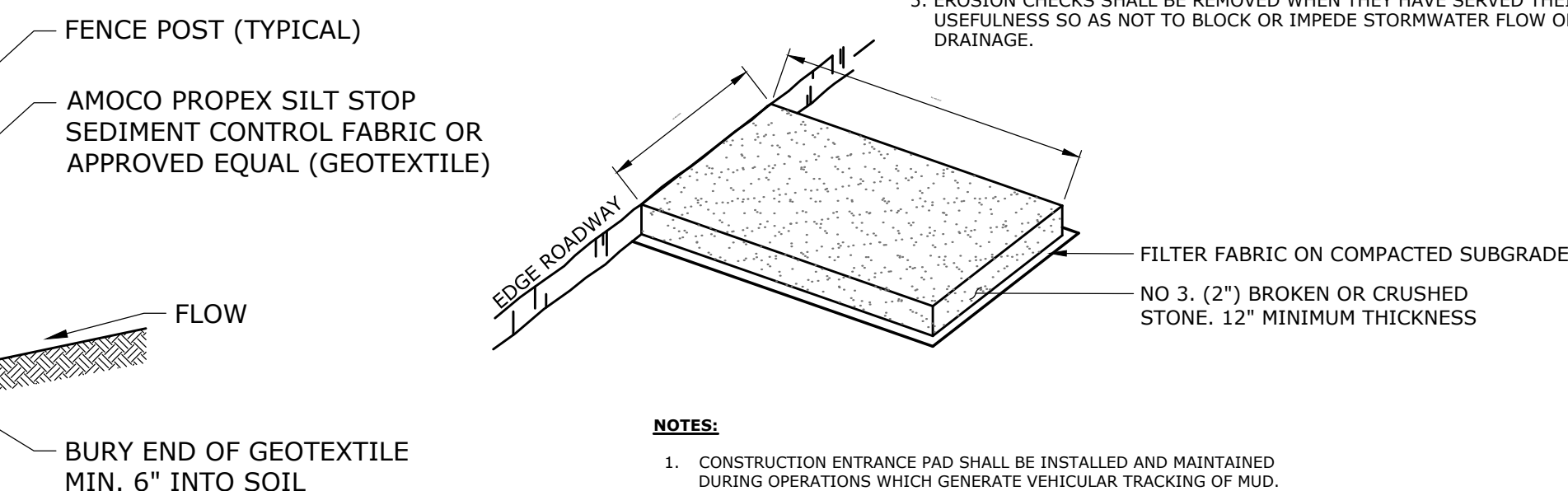
APPLICATION:

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.



SEDIMENT FILTER FENCE (GSF)

NOT TO SCALE



CONSTRUCTION ENTRANCE PAD (CE)

NOT TO SCALE

FENCE POST (TYPICAL)

- AMOCO PROPEX SILT STOP
SEDIMENT CONTROL FABRIC OR
APPROVED EQUAL (GEOTEXTILE)
- BURY END OF GEOTEXTILE
MIN. 6" INTO SOIL

SEDIMENT FILTER FENCE (GSF)

NOT TO SCALE

SEDIMENT FILTER FENCE (GSF)

NOT TO SCALE

EROSION CONTROL MAINTENANCE INTERVALS

EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/MAINTENANCE	FAILURE INDICATORS	REMOVAL
TEMPORARY SEDIMENT TRAP (TST)	- DETAIN SEDIMENT-LOADED 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. ACCUMULATED SEDIMENT SHOULD BE AT LEAST 1 FOOT ABOVE CREST OF EMBANKMENT. SEDIMENT MUST BE REMOVED WHEN ACCUMULATION REACHES 1/3 OF THE REQUIRED WET STORAGE.	- TURBID WATER - EXCESSIVE SEDIMENT ACCUMULATION - OVERTOPPING EVIDENCE	TST MAY BE REMOVED ONCE THE CONTRIBUTING DRAINAGE AREA IS PERMANENTLY STABILIZED.
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 1/3 OF THE WET STORAGE CAPACITY OR WHEN DEPTH OF AVAILABLE POOL IS REDUCED TO 1/3. PLACE STAKES OR OTHER MEANS TO INDICATE THE THRESHOLD ELEVATION FOR SEDIMENT CLEANOUT.	- TURBID WATER - EXCESSIVE SEDIMENT ACCUMULATION - OVERTOPPING EVIDENCE - EROSION OF EMBANKMENTS	TEMPORARY SEDIMENT BASINS THAT ARE NOT TO FUNCTION AS PERMANENT DETENTION BASINS MAY BE REMOVED ONCE THE CONTRIBUTING DRAINAGE AREA IS PERMANENTLY STABILIZED.
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 1/3 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 FENCE MAY BE REMOVED AFTER UPHILL AND SENSITIVE AREAS HAVE BEEN PERMANENTLY STABILIZED.
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 1/3 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 BALES MAY BE REMOVED AFTER UPHILL AREAS HAVE BEEN PERMANENTLY STABILIZED.
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	CONSTRUCTION ENTRANCE MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL OTHER SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
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 6% OF SEDIMENT, REMOVE SEDIMENT FROM BAG, CHECK SURROUNDING SILT FENCE AND HAY BALES PER NOTE ABOVE.	- RIPPED BAG - FAILED HAY BALES / SILT FENCE - SIGNIFICANT SILT PRESENCE IN STORM DRAINAGE SYSTEM OUTFLOW.	INLET PROTECTION MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
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	STOCKPILE PROTECTION MAY BE REMOVED ONCE THE STOCKPILE IS USED OR REMOVED.

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. (LOIULUM PERENIS)
PERMANENT VEGETATIVE COVER: SEE LANDSCAPING PLAN

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 HYDROSEEDDED, 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 HYDROSEEDDED, 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.

TEMPORARY MULCHING:

- STRAY OR HAY 70-90 LBS./1,000 SQ. FT. (TEMPORARY VEGETATIVE AREAS)
WOOD FIBER IN HYDROMULCH SLURRY 50-50 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 SOIL 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:

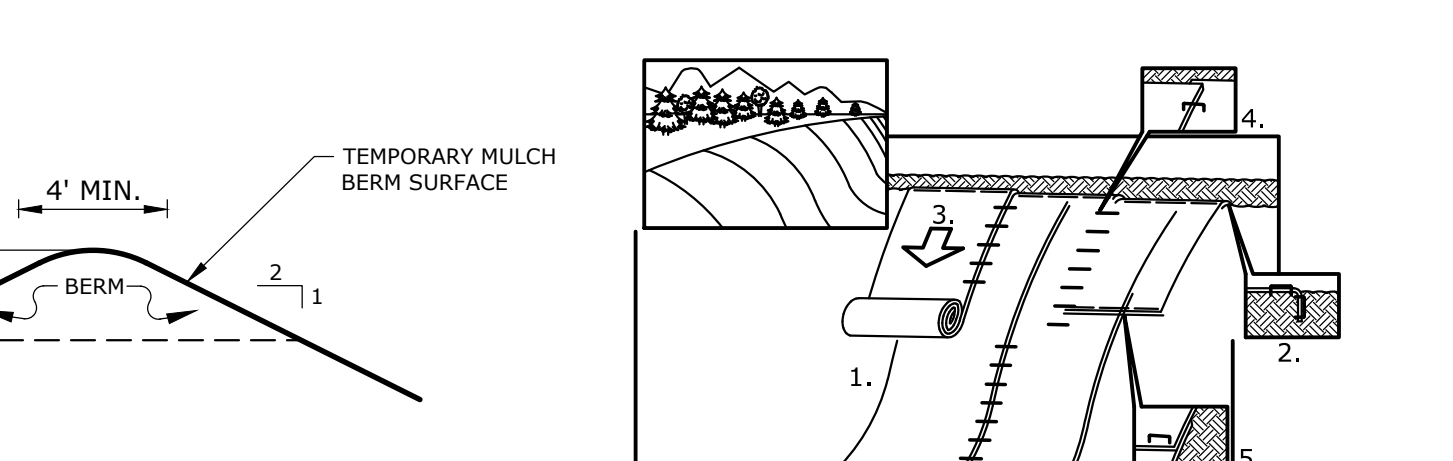
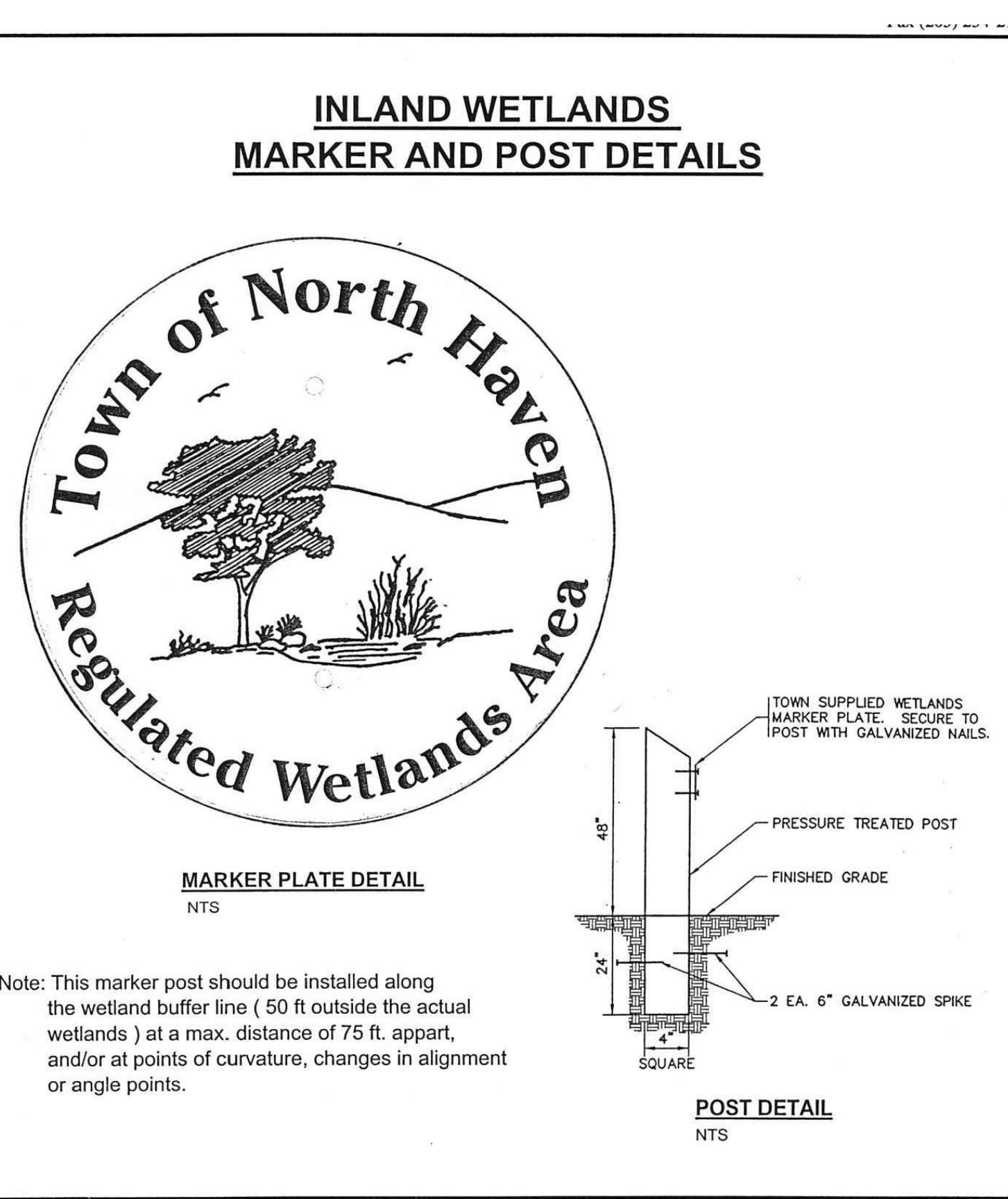
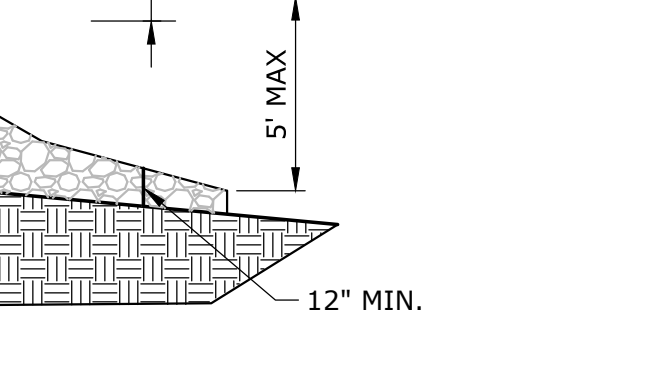
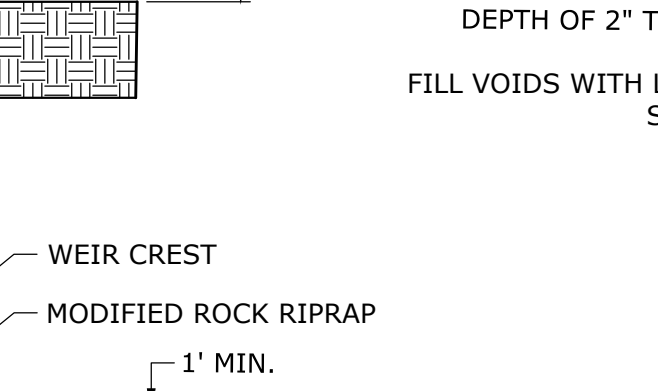
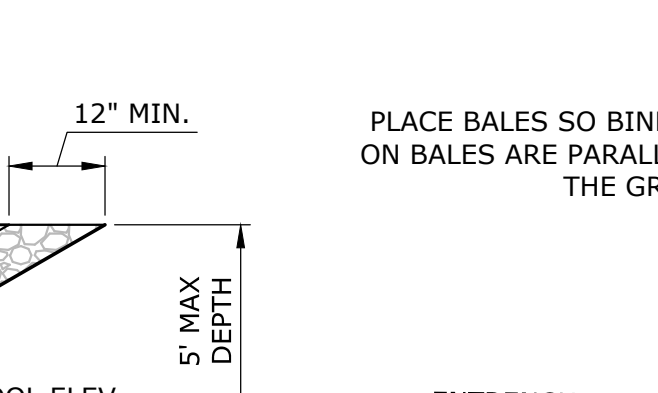
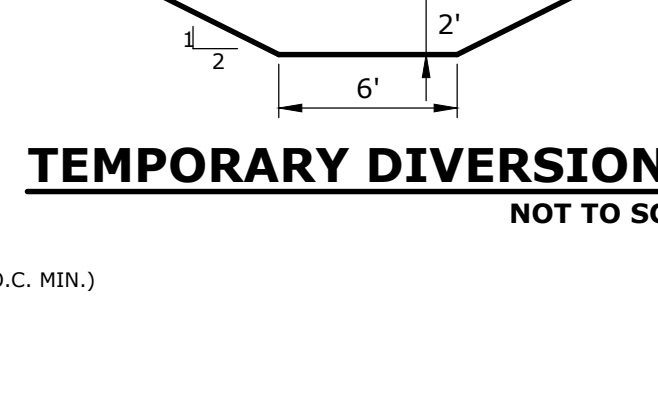
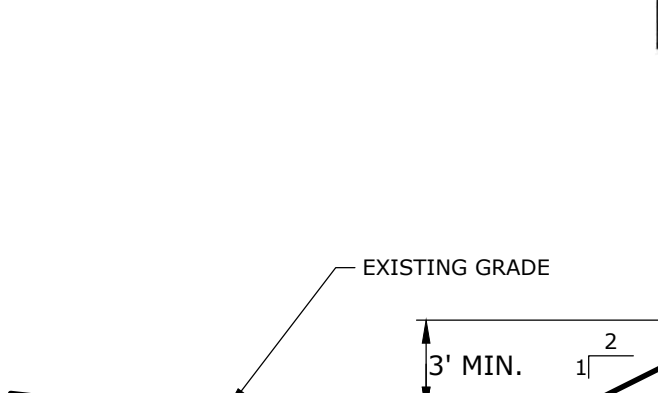
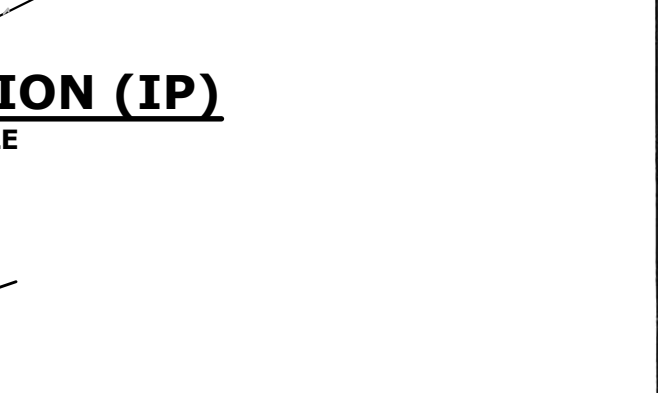
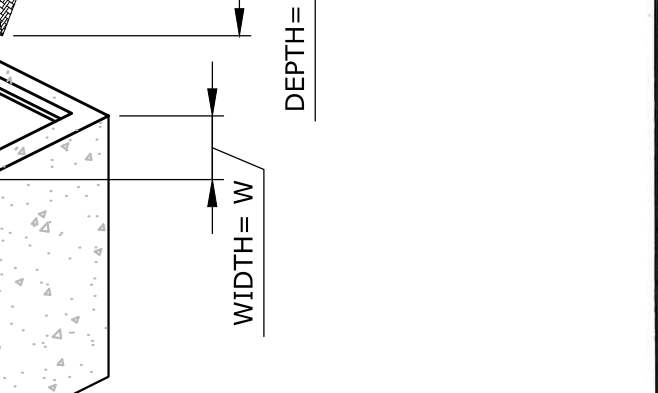
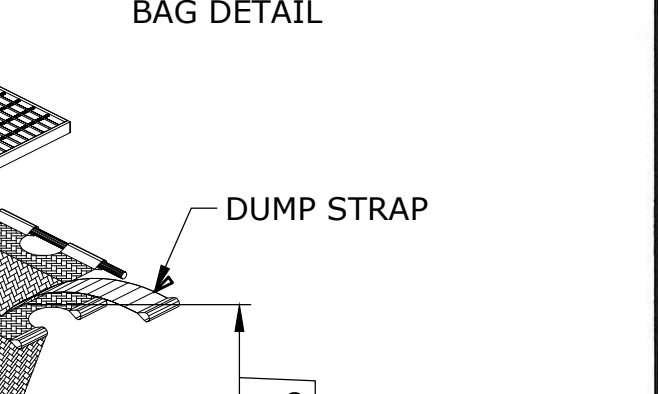
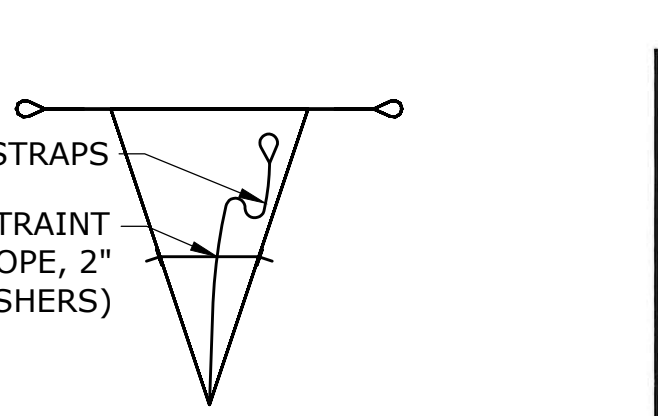
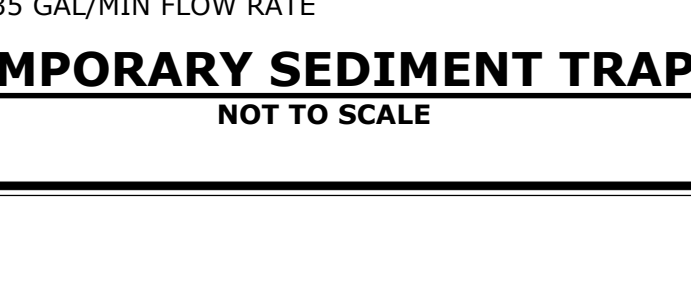
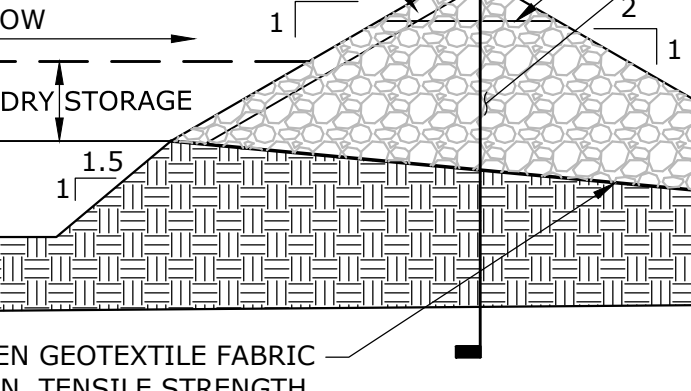
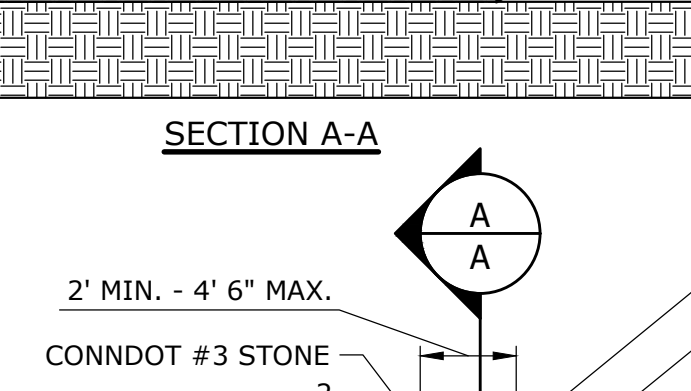
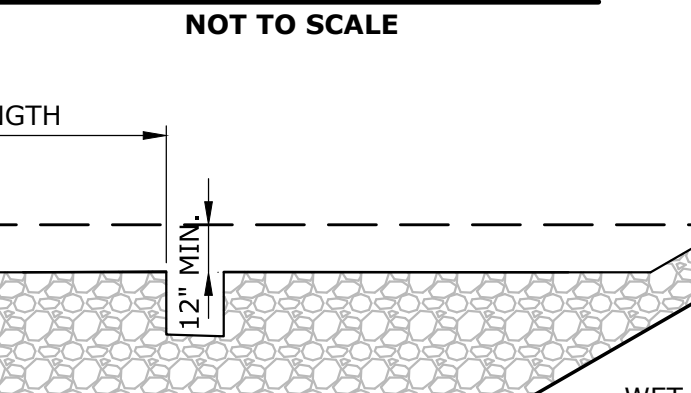
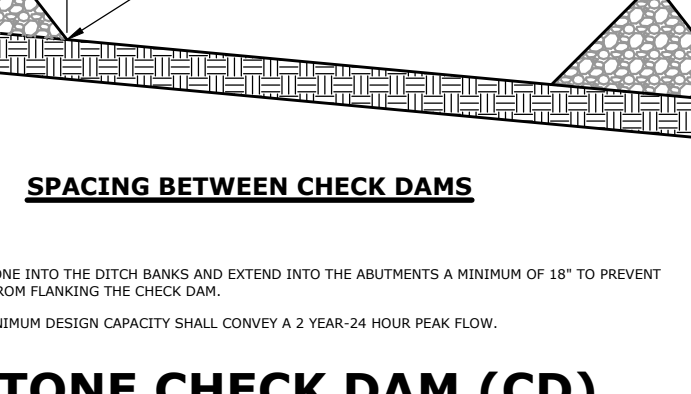
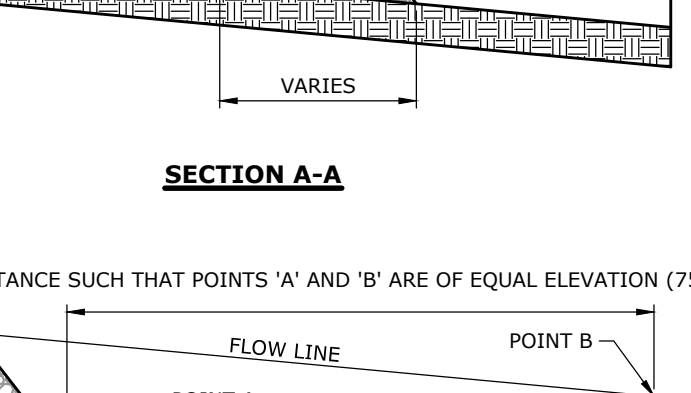
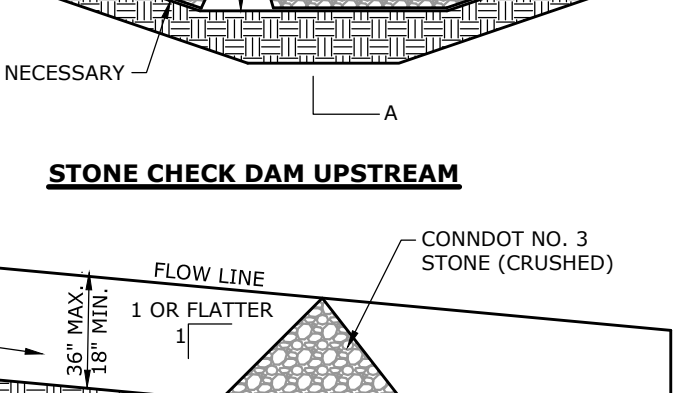
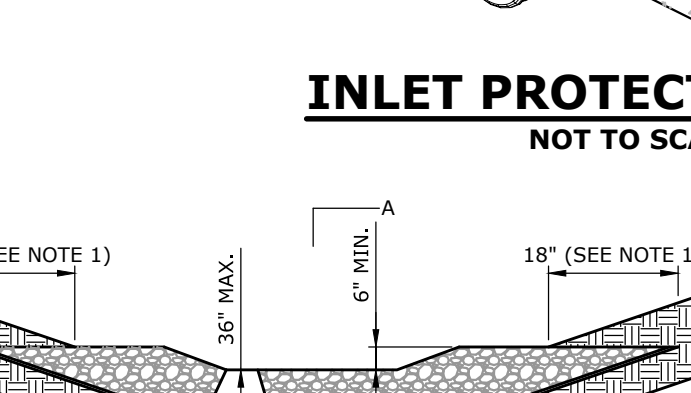
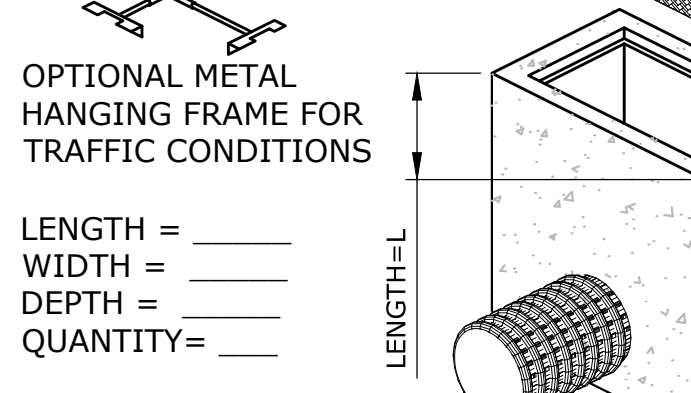
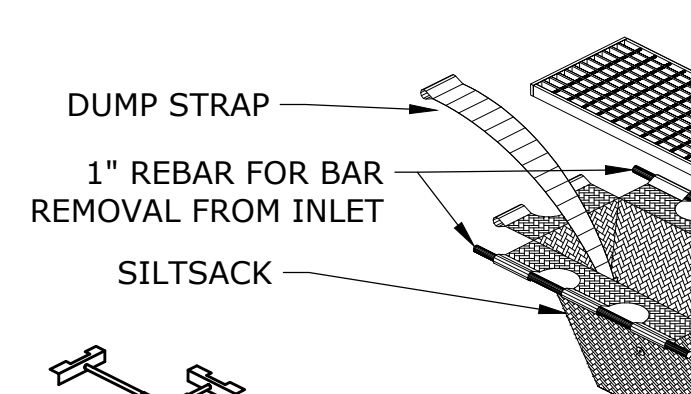
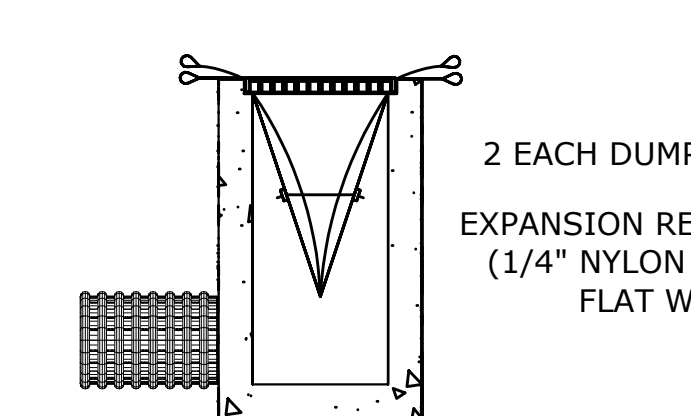
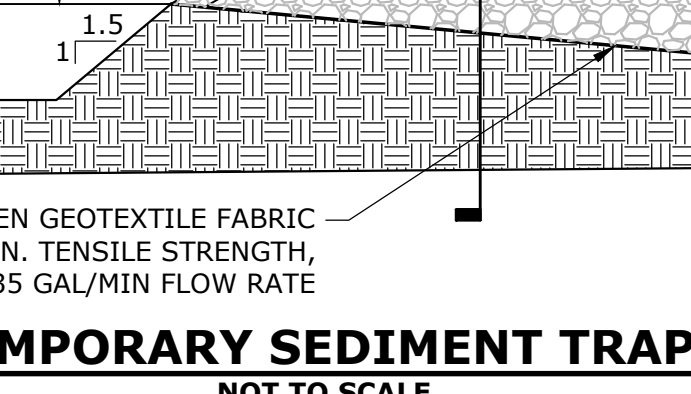
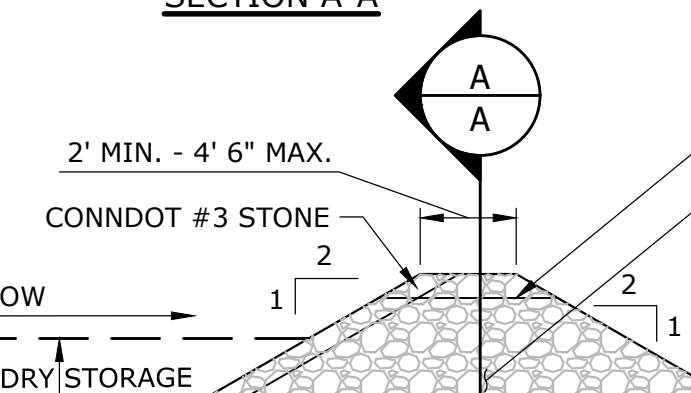
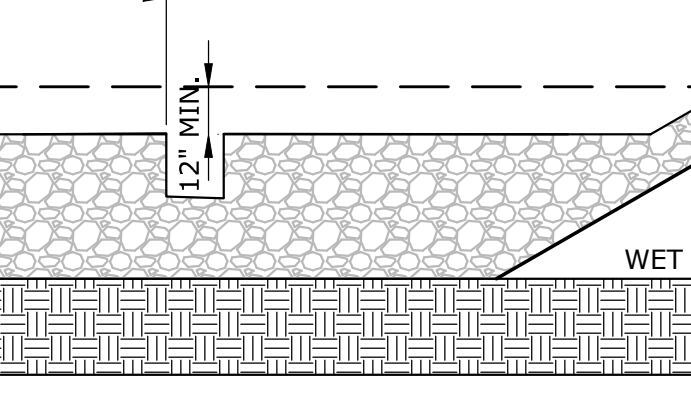
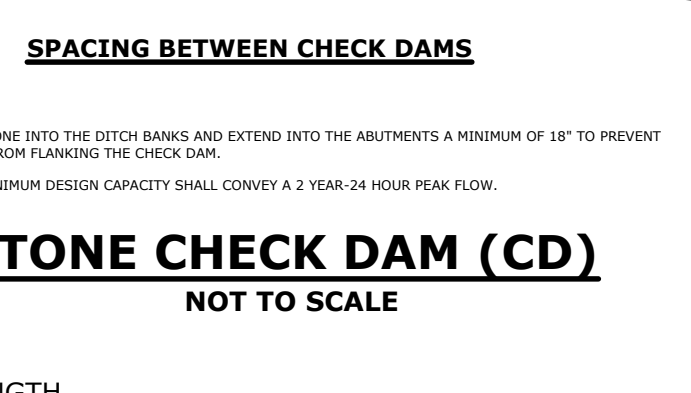
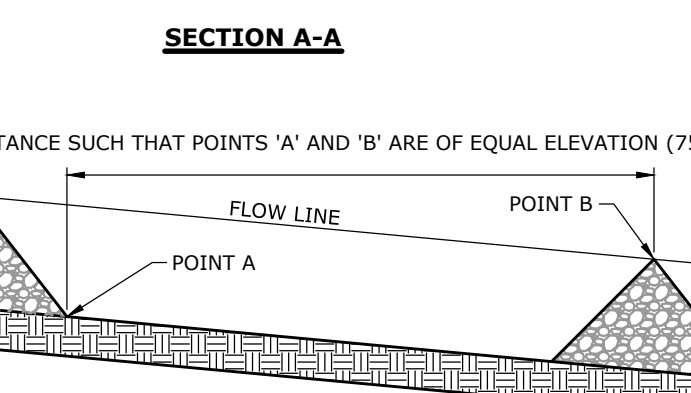
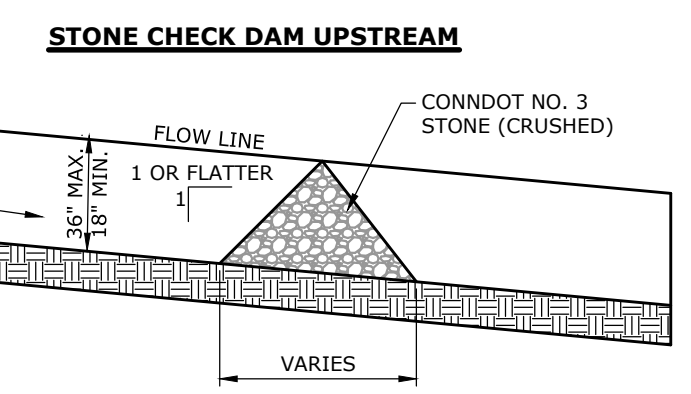
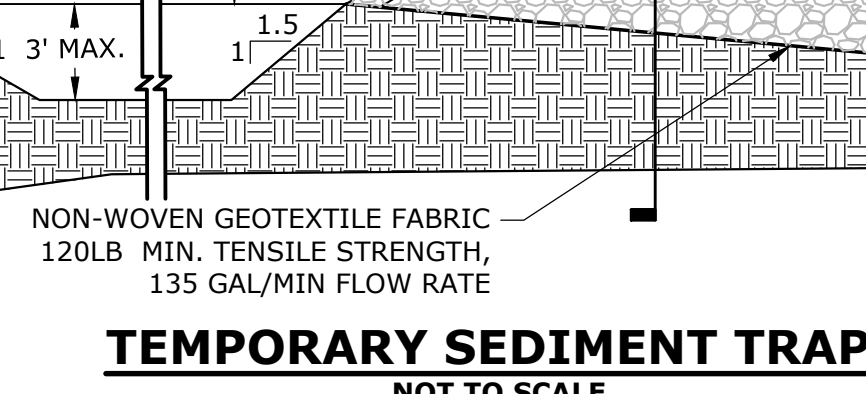
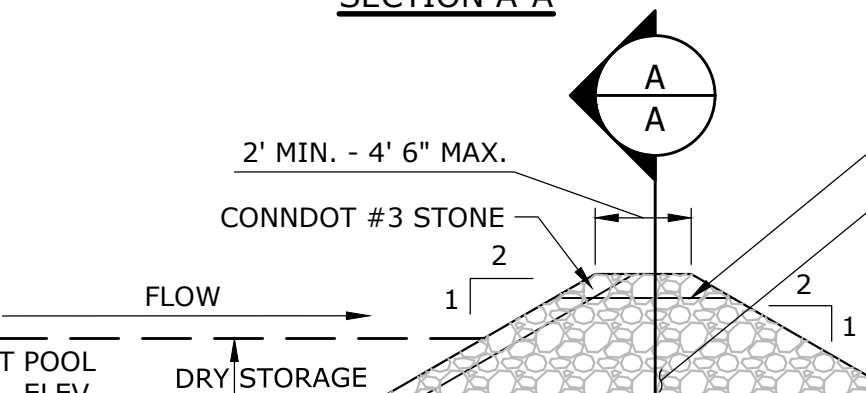
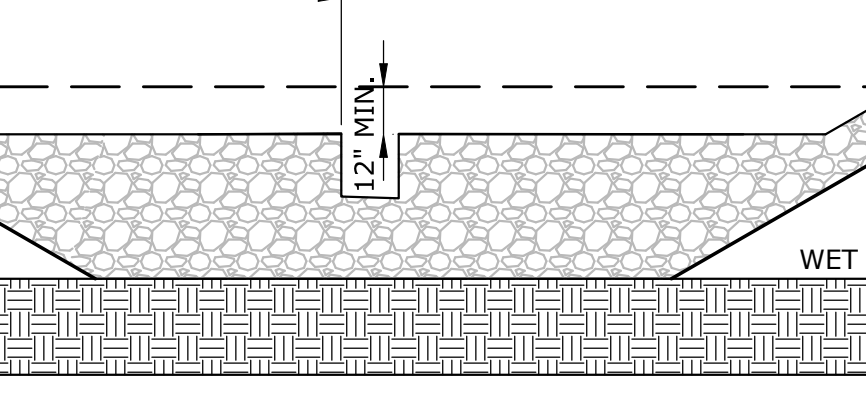
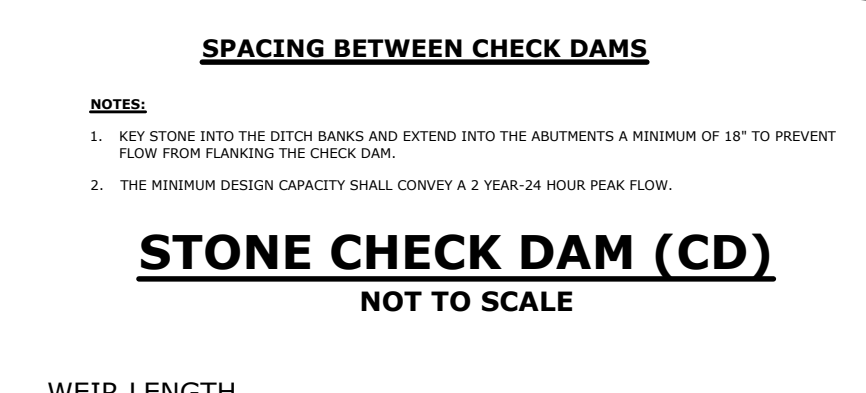
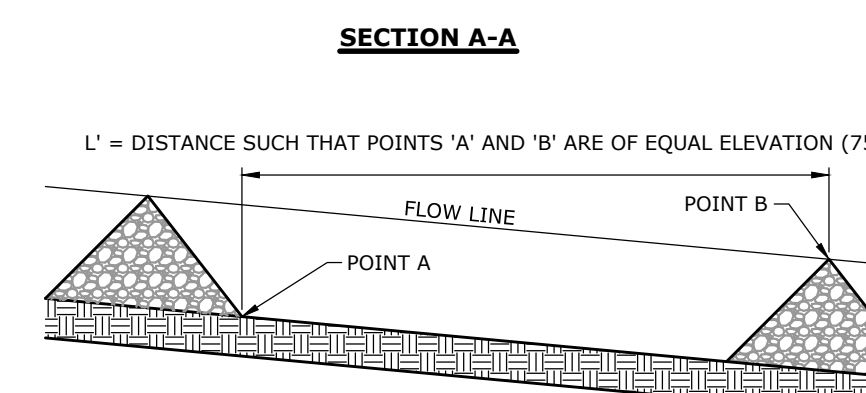
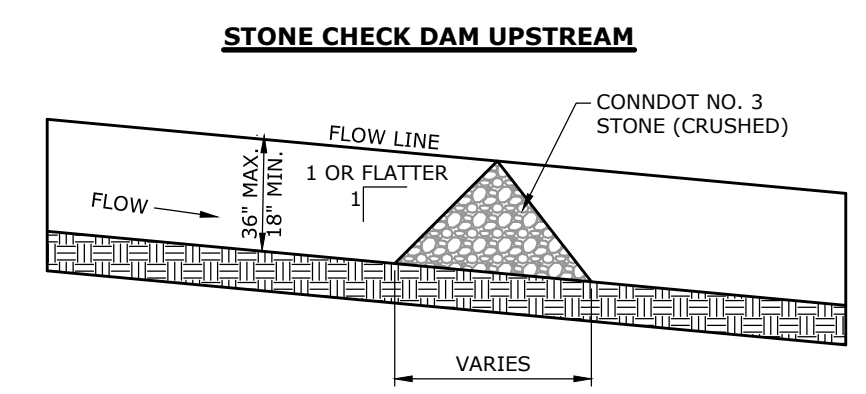
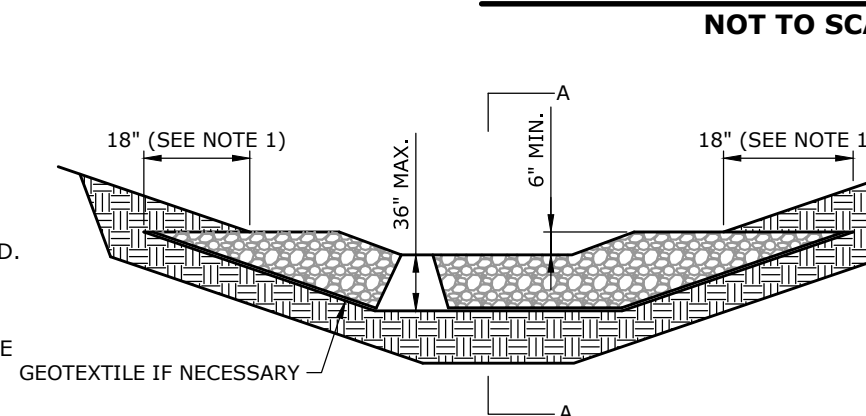
1. TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LIME AS REQUIRED.
2. ON SITES WHERE GRASSES PREDOMINATE, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (12 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.
3. ON SITES WHERE LEGUMES PREDOMINATE, BROADCAST EVERY THREE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

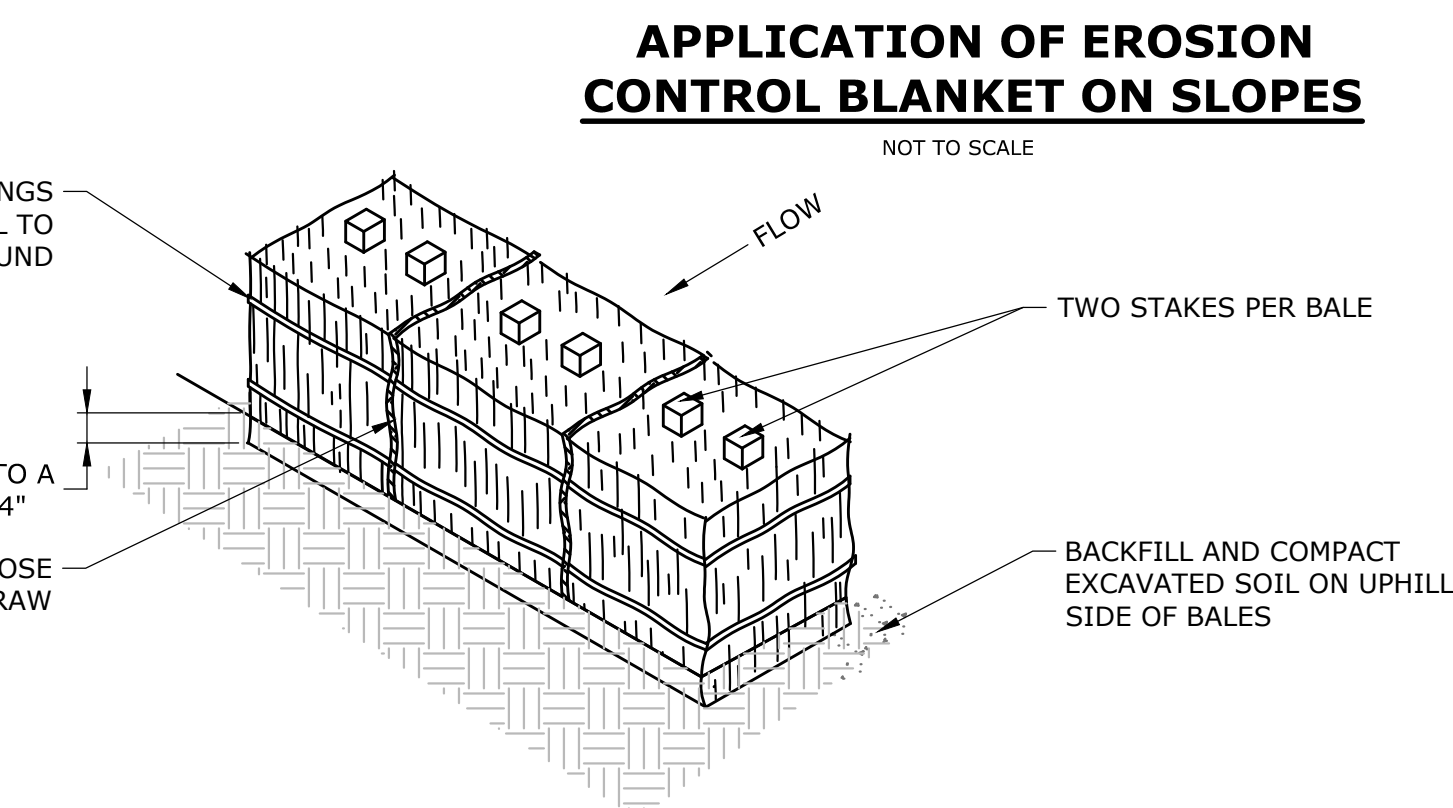
- GENERAL:**
1. TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.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



- NOTES:**
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING SCC225, DO NOT SEED PREPARED AREA. SCC225 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. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 3. ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
 5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART.
- REFER TO GENERAL STAPLE PATTERN GUIDE IN NORTH AMERICAN GREEN CATALOG FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.



- NOTES:**
1. IDEALLY BALES SHOULD BE ENTRENCHED 2 TO 4 INCHES AND TIGHTLY BUTTED TOGETHER. BALES CAN BE SUCCESSFULLY PLACED WITHOUT A TRENCH IF GOOD GROUND CONTACT IS MADE. REMOVE HEAVY BRUSH AND FILL ALL VOIDS WITH LOOSE STRAW.
 2. BALES SHALL BE ONLY USED AS A TEMPORARY BARRIER AND FOR NO LONGER THAN 60 DAYS.
 3. WHEN SEDIMENTATION DEPOSITS REACH WITHIN 3" OF THE TOP OF BALES, REMOVE THE SEDIMENTATION OR ADD ADDITIONAL BALES ON SEDIMENTATION DIRECTLY BEHIND FIRST ROW OF BALES AS DIRECTED BY THE ENGINEER.
 4. UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS AND WHEN DIRECTED BY THE ENGINEER, HAY BALES WILL BE REMOVED AND USED AS MULCH. ANY SEDIMENTATION WILL BE THINLY SPREAD UPON ESTABLISHED GROUND COVER.



MILONE & MACBROOM

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CHESHIRE, CT 06610
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DESCRIPTION	DATE	BY
PLANNING AND ZONING	11/05/20	AWG
TOWN COMMENTS	12/10/20	AWG
WETLANDS HEARING RESPONSE	2/17/21	AWG
FINAL SUBMITTED PLAN - COA	06/02/21	AWG

SEDIMENT AND EROSION CONTROL SPECIFICATIONS AND DETAILS

Slate Upper School

5100 RIDGE ROAD
NORTH HAVEN, CONNECTICUT

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

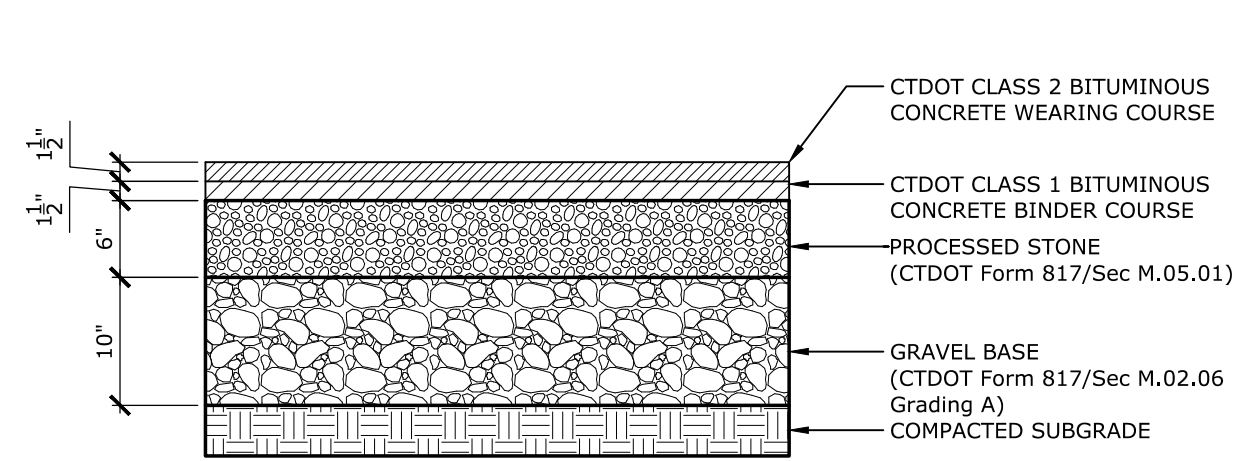
AS NOTED

DATE: **OCTOBER 27, 2020**

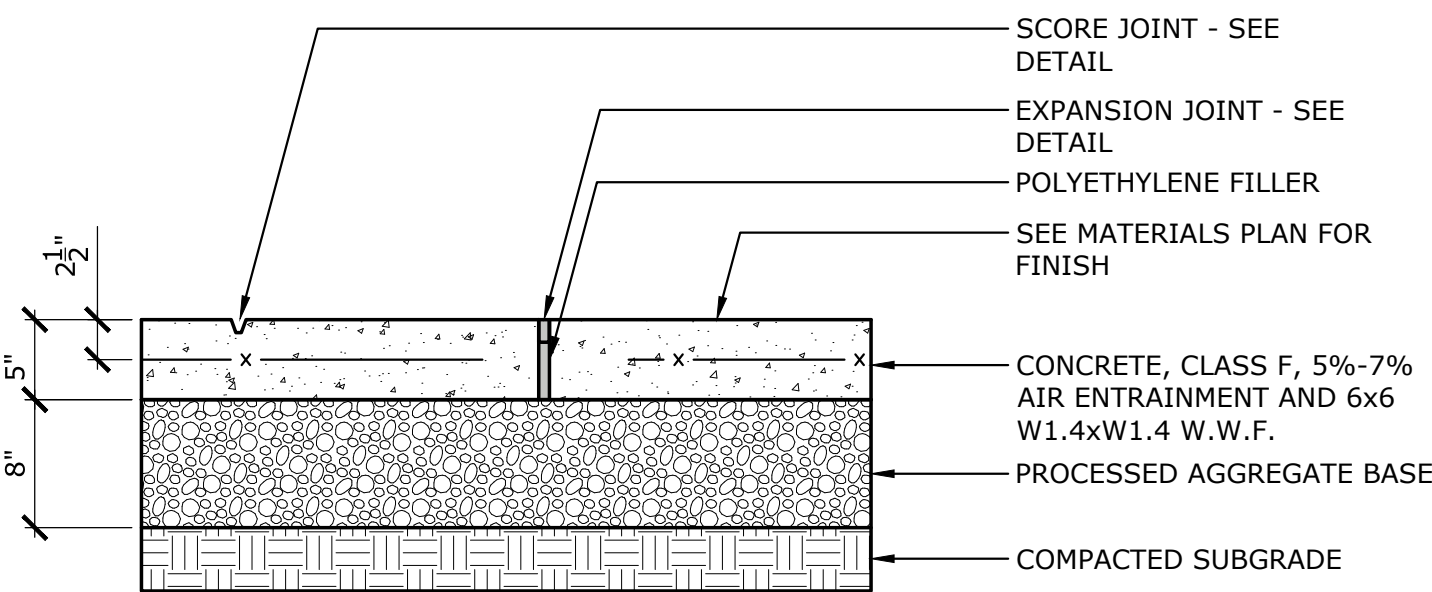
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SHEET NO: **10 OF 15**

SHEET NAME: **SE-2**

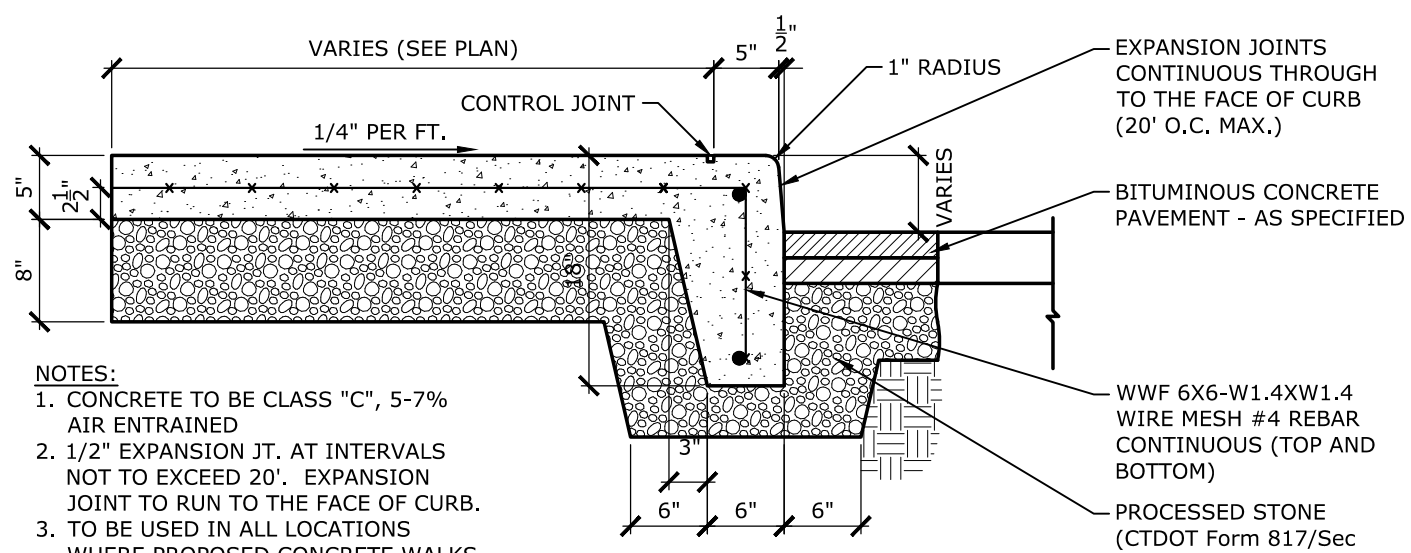


BITUMINOUS CONCRETE DRIVEWAY
NOT TO SCALE

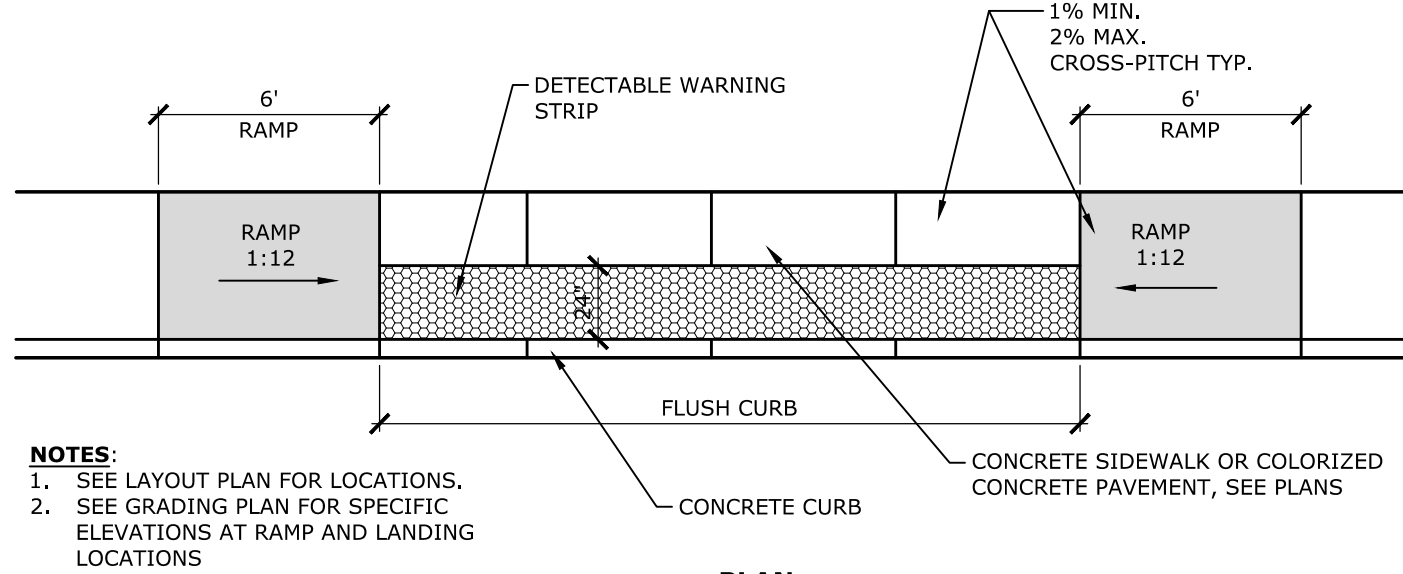


COLORIZED CONCRETE PAVEMENT

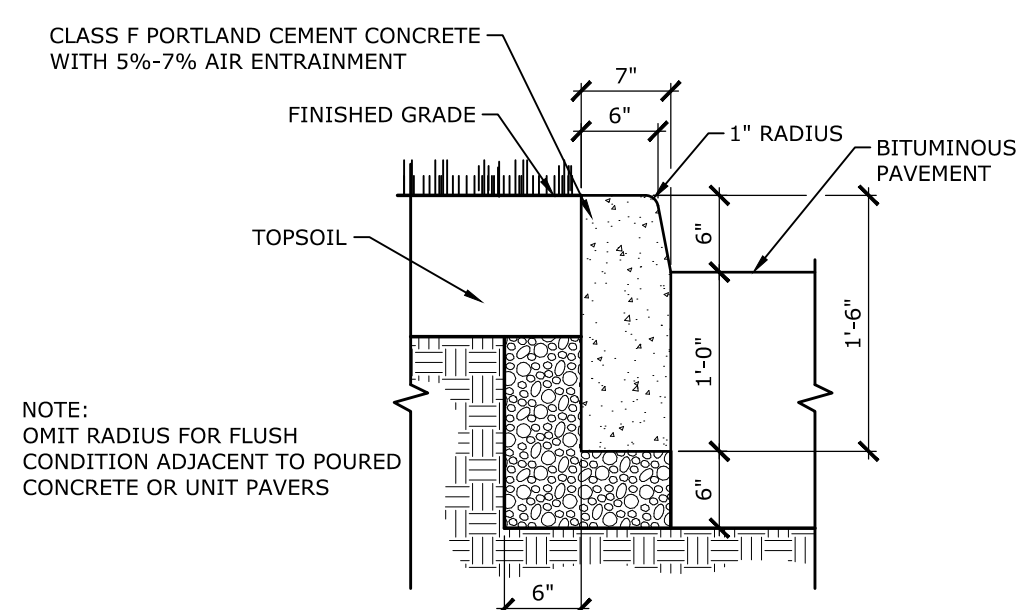
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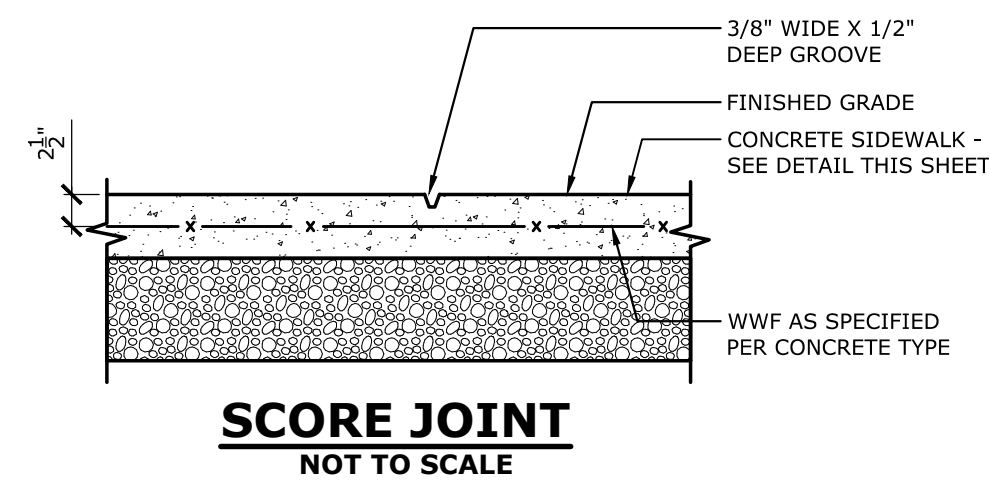
INGEGRAL CONCRETE WALK & CURB WITH REVEAL
NOT TO SCALE



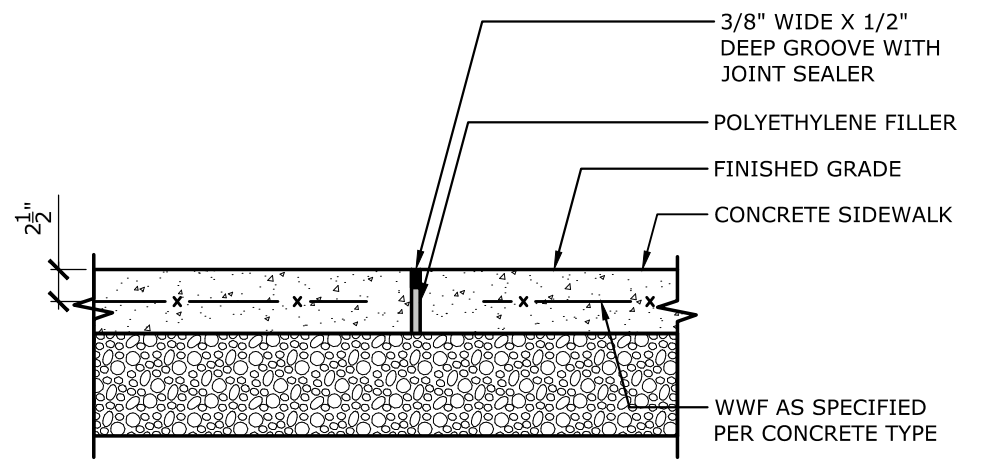
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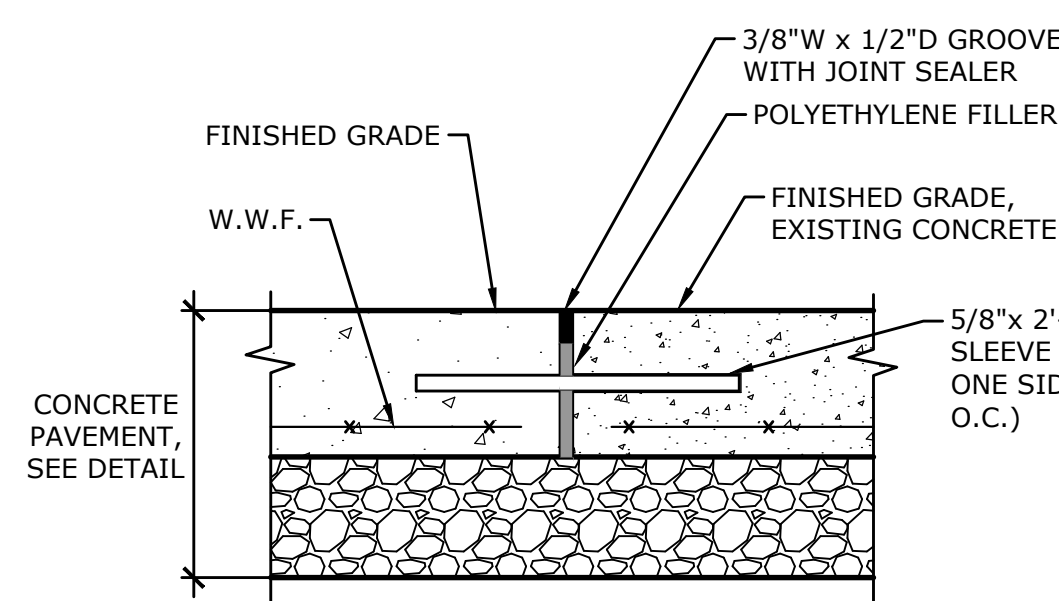
CAST-IN-PLACE CONCRETE CURB
NOT TO SCALE



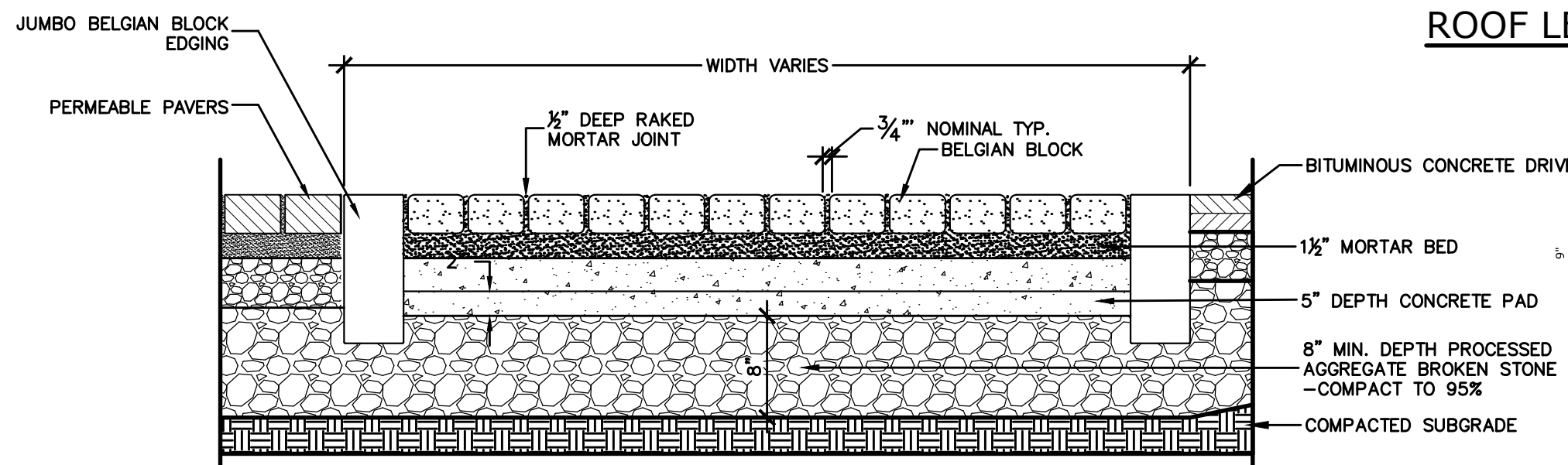
SCORE JOINT
NOT TO SCALE



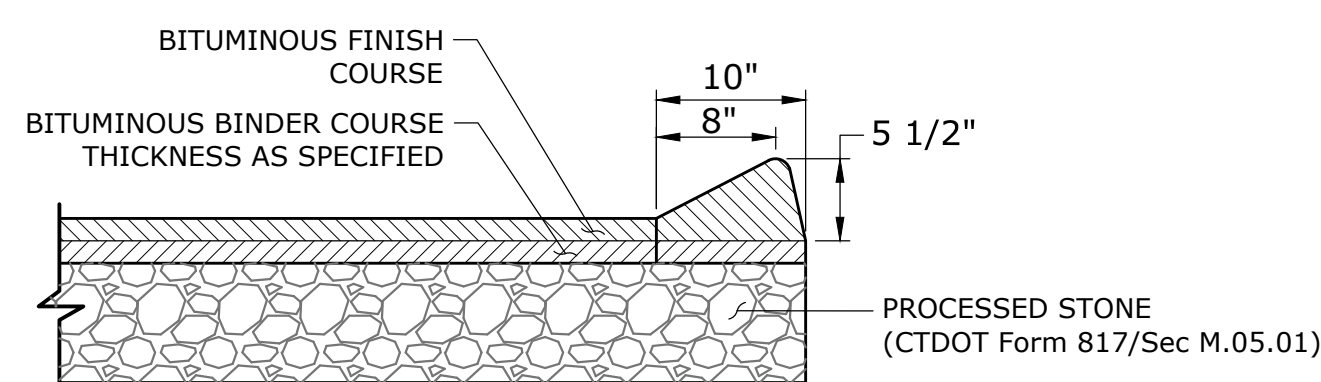
EXPANSION JOINT
NOT TO SCALE



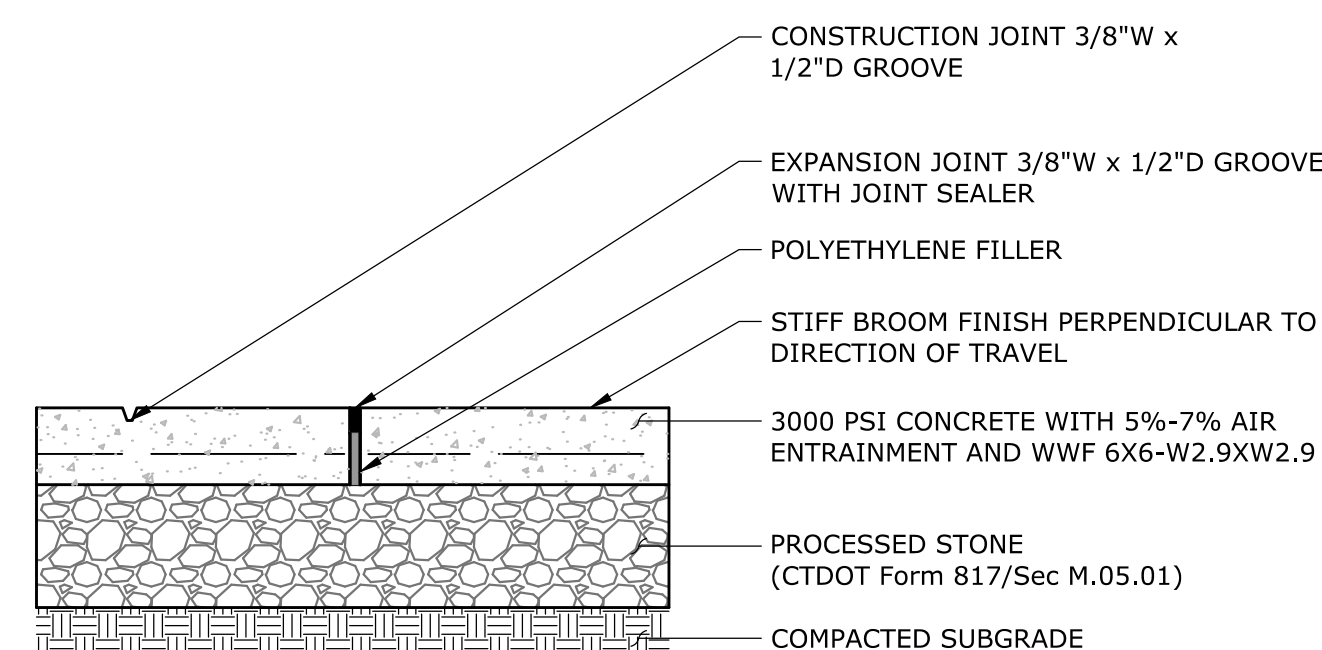
DOWELLED EXPANSION JOINT
NOT TO SCALE



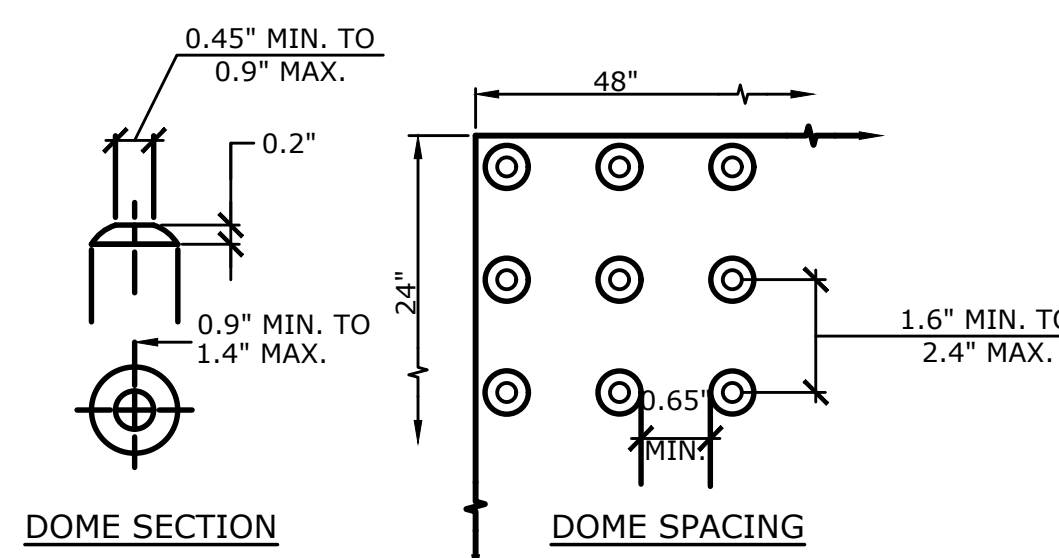
JUMBO BELGIAN BLOCK APRON
NOT TO SCALE



SLOPED BITUMINOUS CONCRETE LIP CURB
NOT TO SCALE

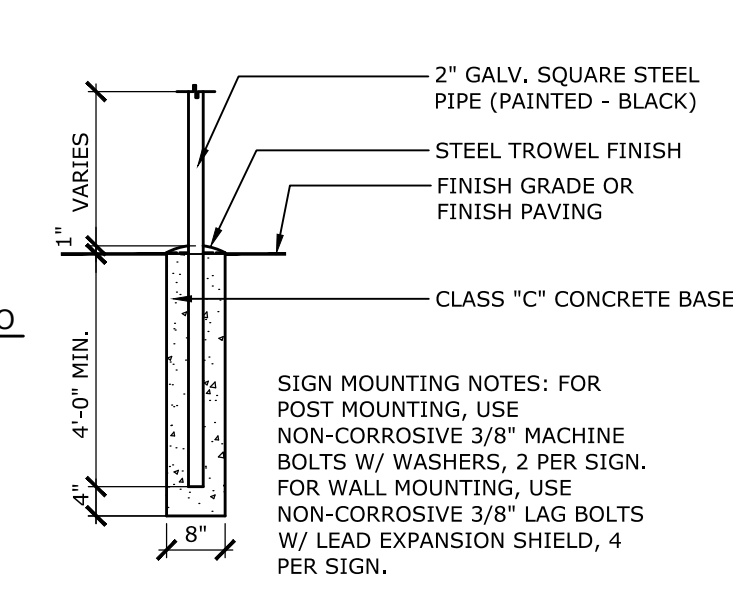


CONCRETE SIDEWALK
NOT TO SCALE



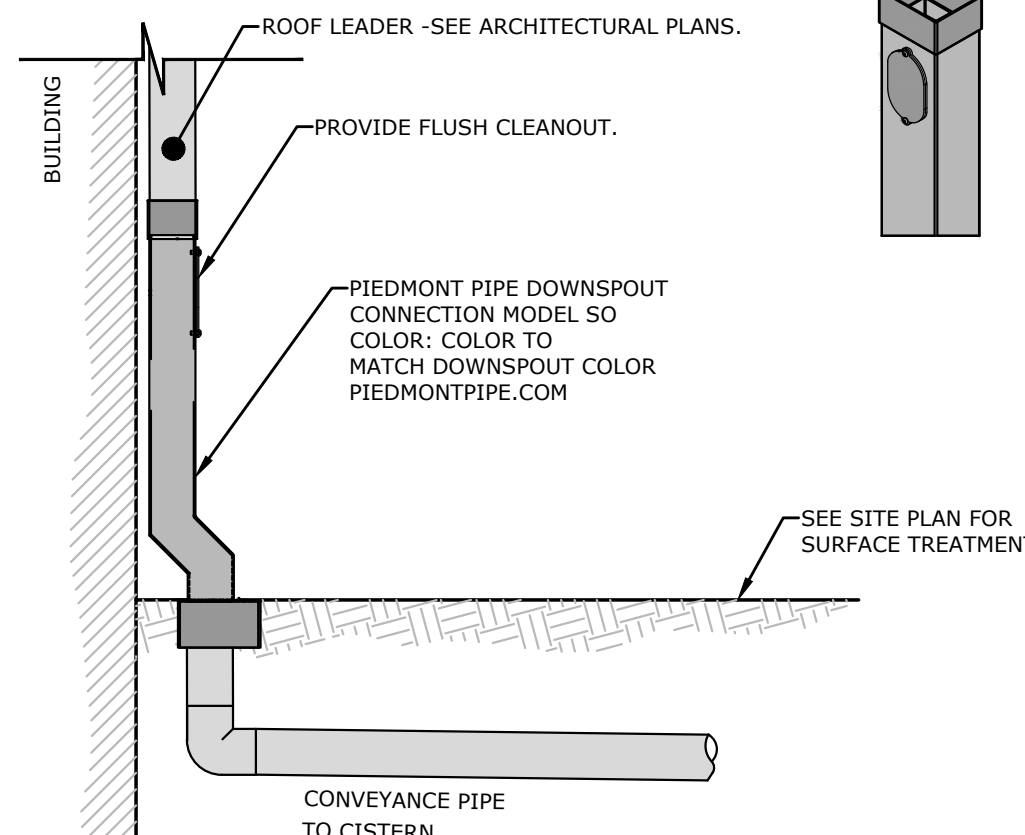
NOTES:
THE DETECTABLE WARNING STRIP SHALL BE A PREFABRICATED DETECTABLE WARNING STRIP SURFACE TILE THAT IS CAST IN PLACE AND REPLACEABLE SUCH AS MANUFACTURED FROM ALERTILE DETECTABLE WARNING SYSTEMS, ADA SOLUTIONS, OR APPROVED EQUAL. THE TILE SHALL HAVE A BRICK RED HOMOGENEOUS COLOR IN COMPLIANCE WITH FEDERAL STANDARD 595A COLOR #2144 OR APPROVED EQUAL.

DETECTABLE WARNING STRIP
NOT TO SCALE

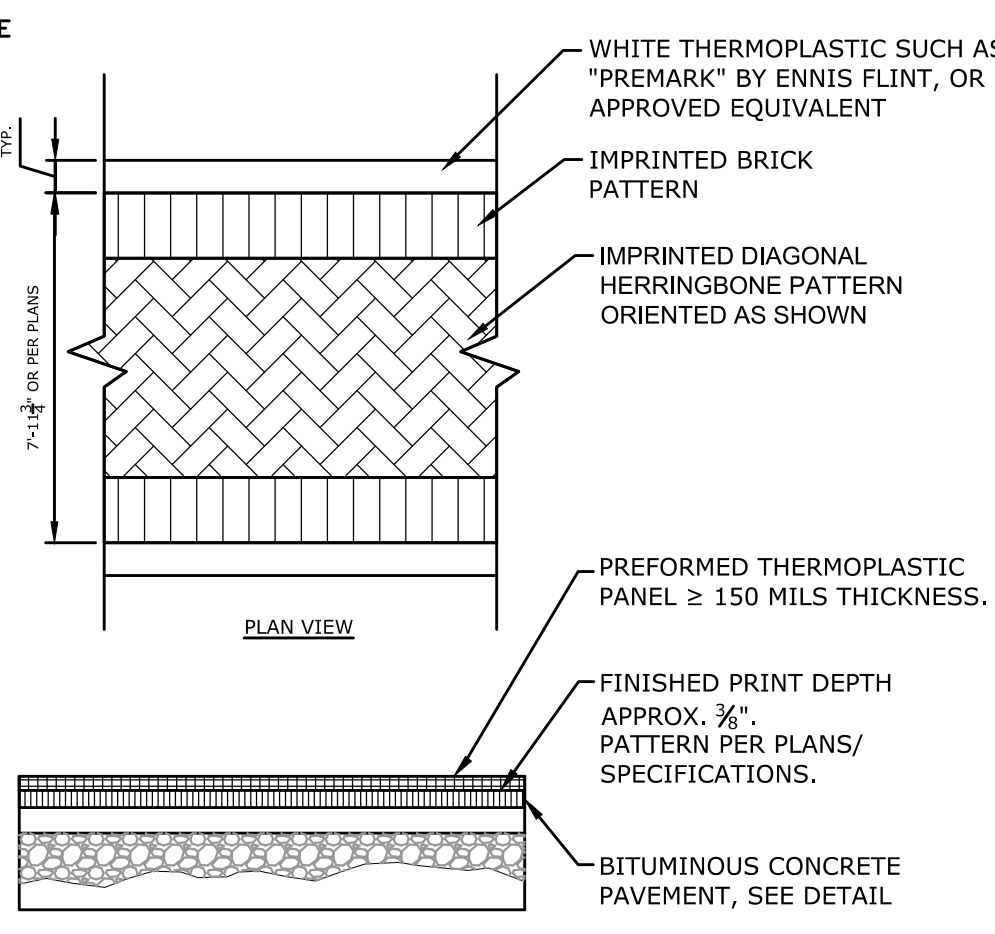


NOTES:
1. BOTTOM OF FOOTING TO BE 1'-0\"/>

TRAFFIC SIGN POST
NOT TO SCALE

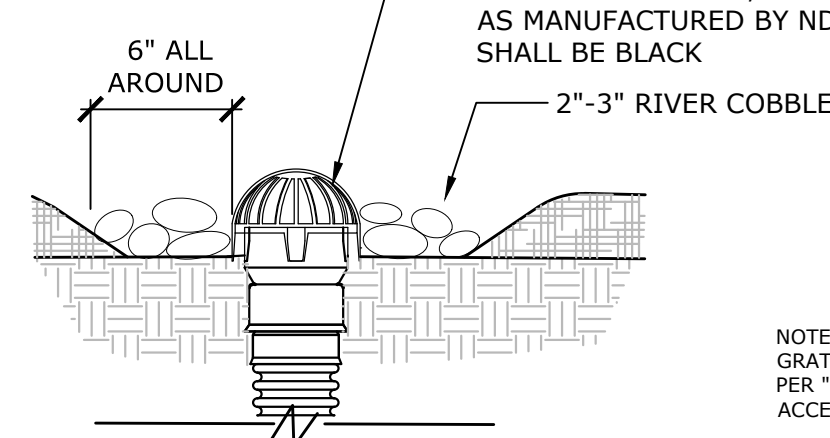


ROOF LEADER ADAPTER
NOT TO SCALE



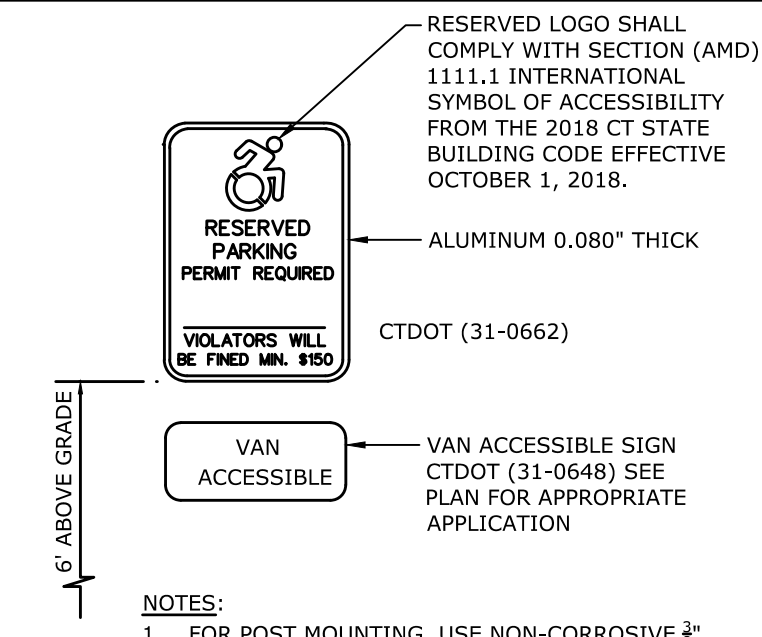
NOTES:
1. SURFACE TO BE INSTALLED OVER NEWLY INSTALLED BITUMINOUS CONCRETE. REFER TO MANUFACTURERS RECOMMENDATIONS FOR BITUMINOUS CONCRETE CURING PERIOD BEFORE INSTALLING SURFACE THERMOPLASTIC MARKING TREATMENTS.
2. CONTRACTOR TO PROVIDE COLOR SAMPLES FOR APPROVAL.

DECORATIVE CROSSWALK
NOT TO SCALE

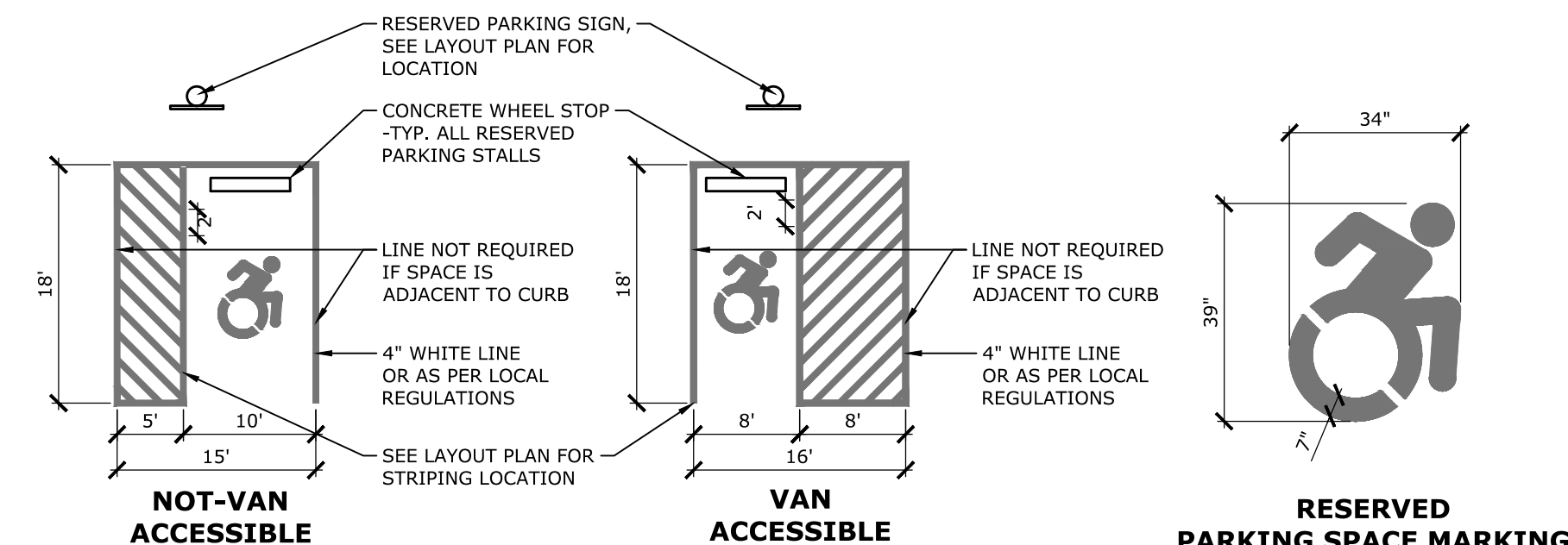


AREA DRAIN GRATE IN LANDSCAPED BED

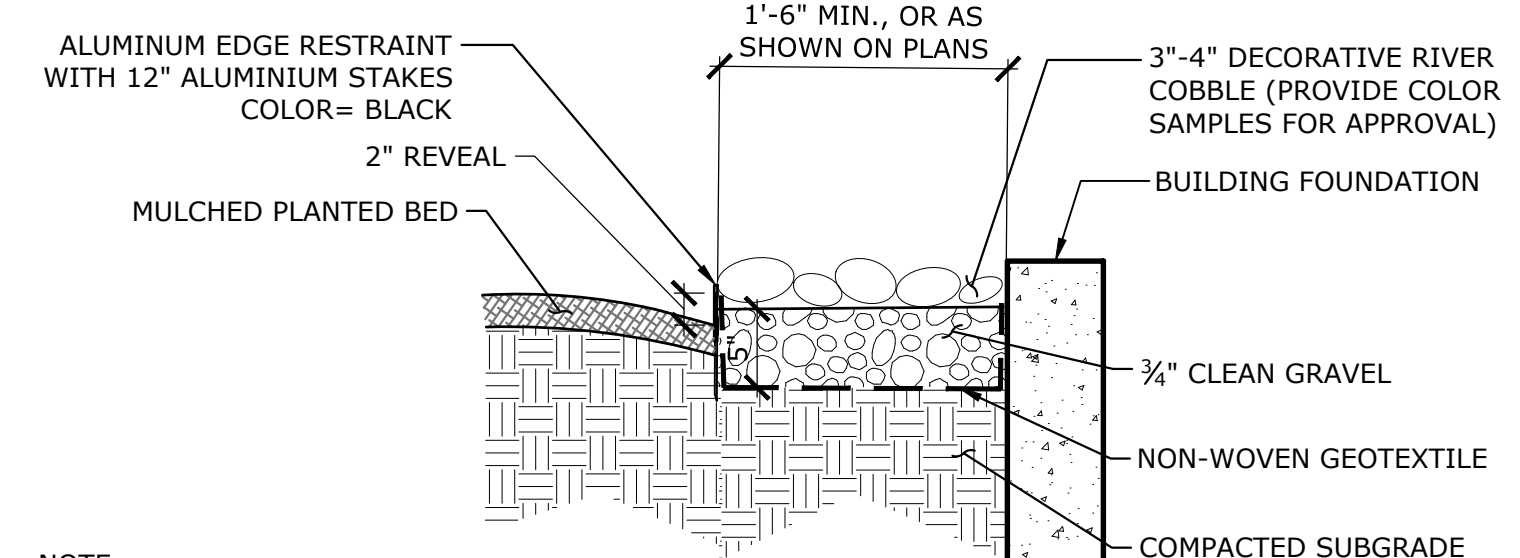
N.T.S. P-SC-5993.02-107



RESERVED PARKING SIGN
NOT TO SCALE



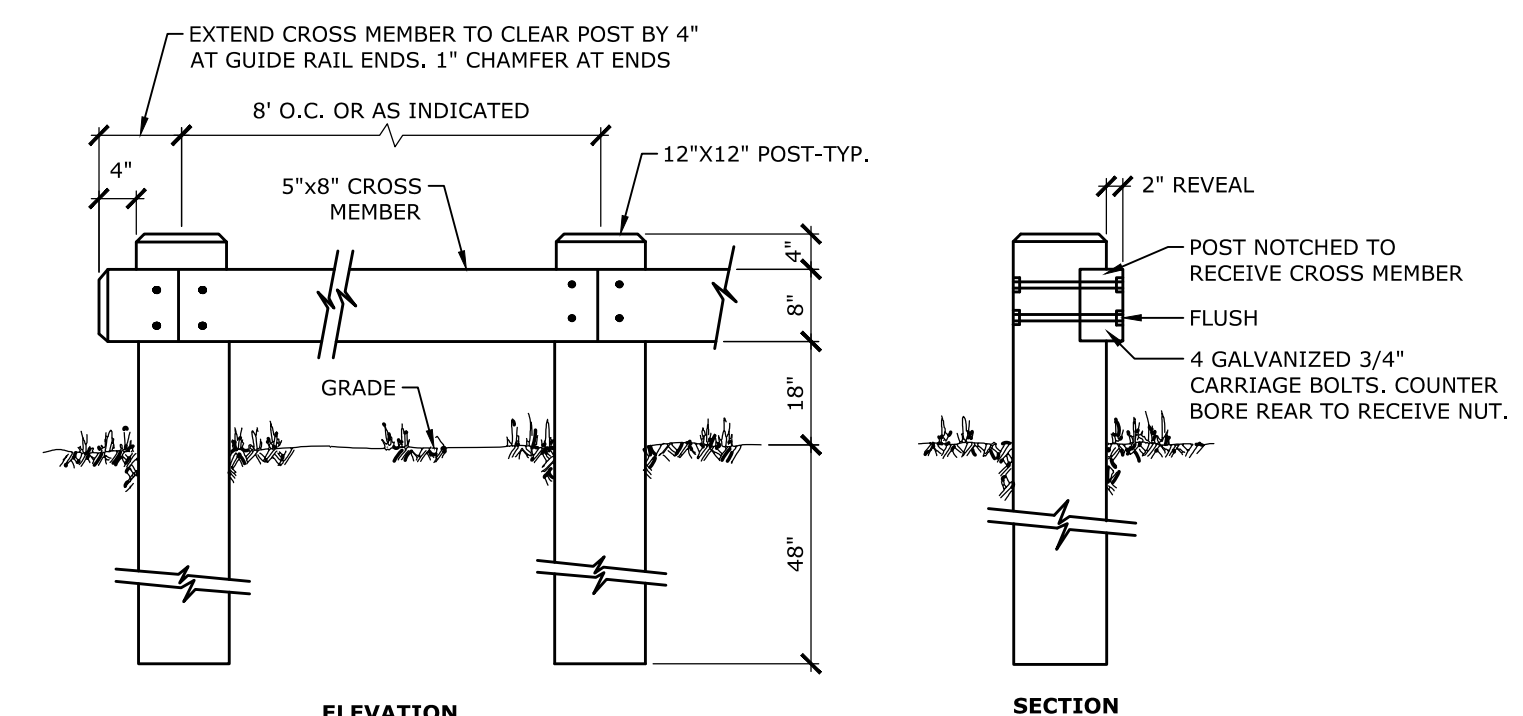
ACCESSIBLE (RESERVED) PARKING
NOT TO SCALE



NOTE:
1. CONTRACTOR SHALL PROVIDE STONE COLOR RANGE SAMPLE AND EDGE SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT
2. ALUMINUM LANDSCAPE EDGING SHALL BE 3500 SERIES, AS MANUFACTURED BY CURV-RITE, OR APPROVED EQUIVALENT

COBBLE DRIP EDGE

N.T.S.



TIMBER GUIDE RAIL
NOT TO SCALE

NOTES:
1. ALL RAIL AND POST LUMBER SHALL BE COMMERCIAL GRADE, NO.1 DENSE, (Fb=10.3 Fp) OR BETTER, CONFORMING TO NOMINAL SIZES AND DIMENSIONS SHOWN AND TO AASHTO SPECIFICATION M168. ALL TIMBER SHALL BE TREATED WITH A PRESSURE IMPREGNATED PRESERVATIVE IN ACCORDANCE WITH AASHTO SPECIFICATION M133.
2. BOLTS SHALL BE 3/4\"/>

TIMBER GUIDE RAIL

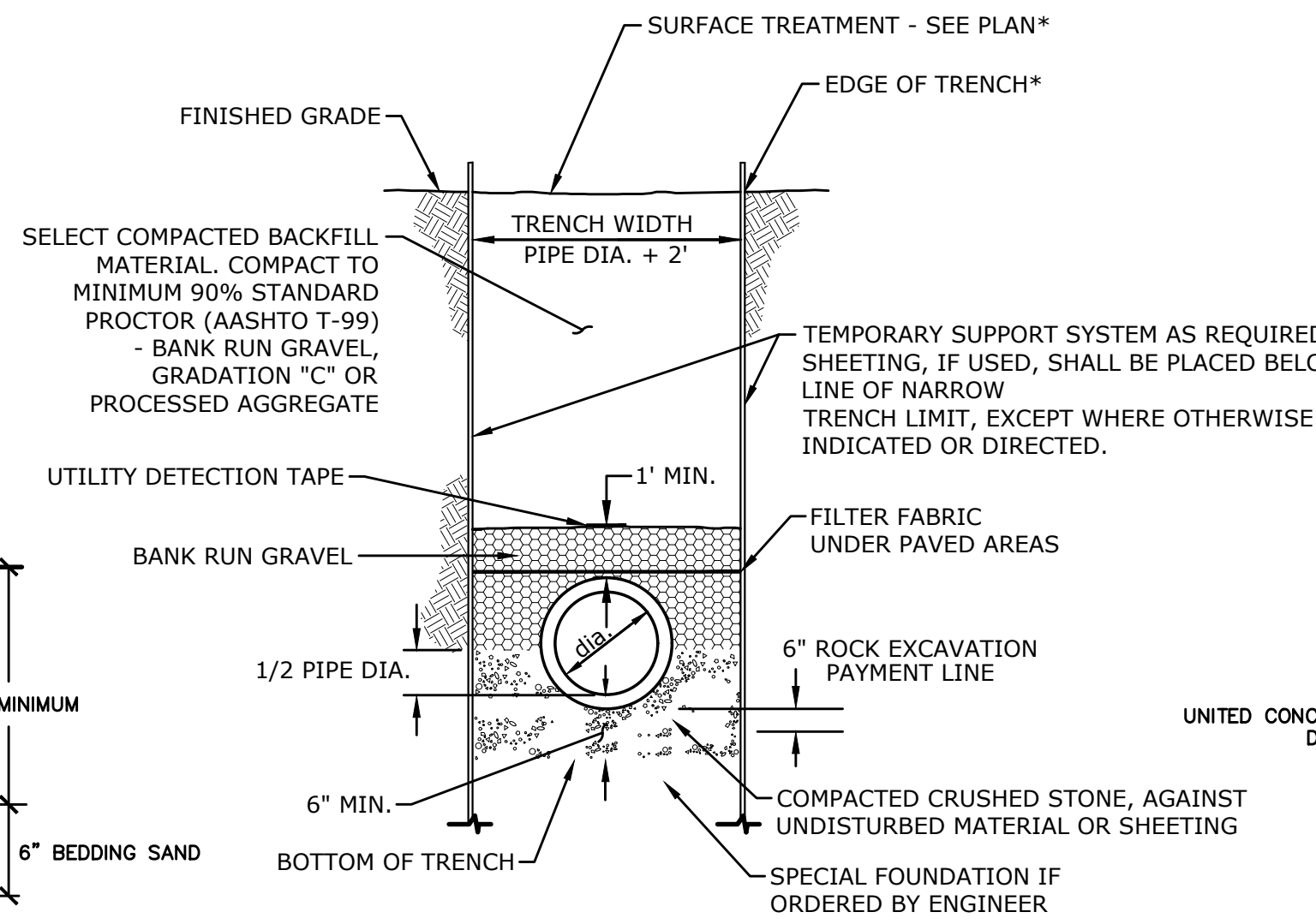
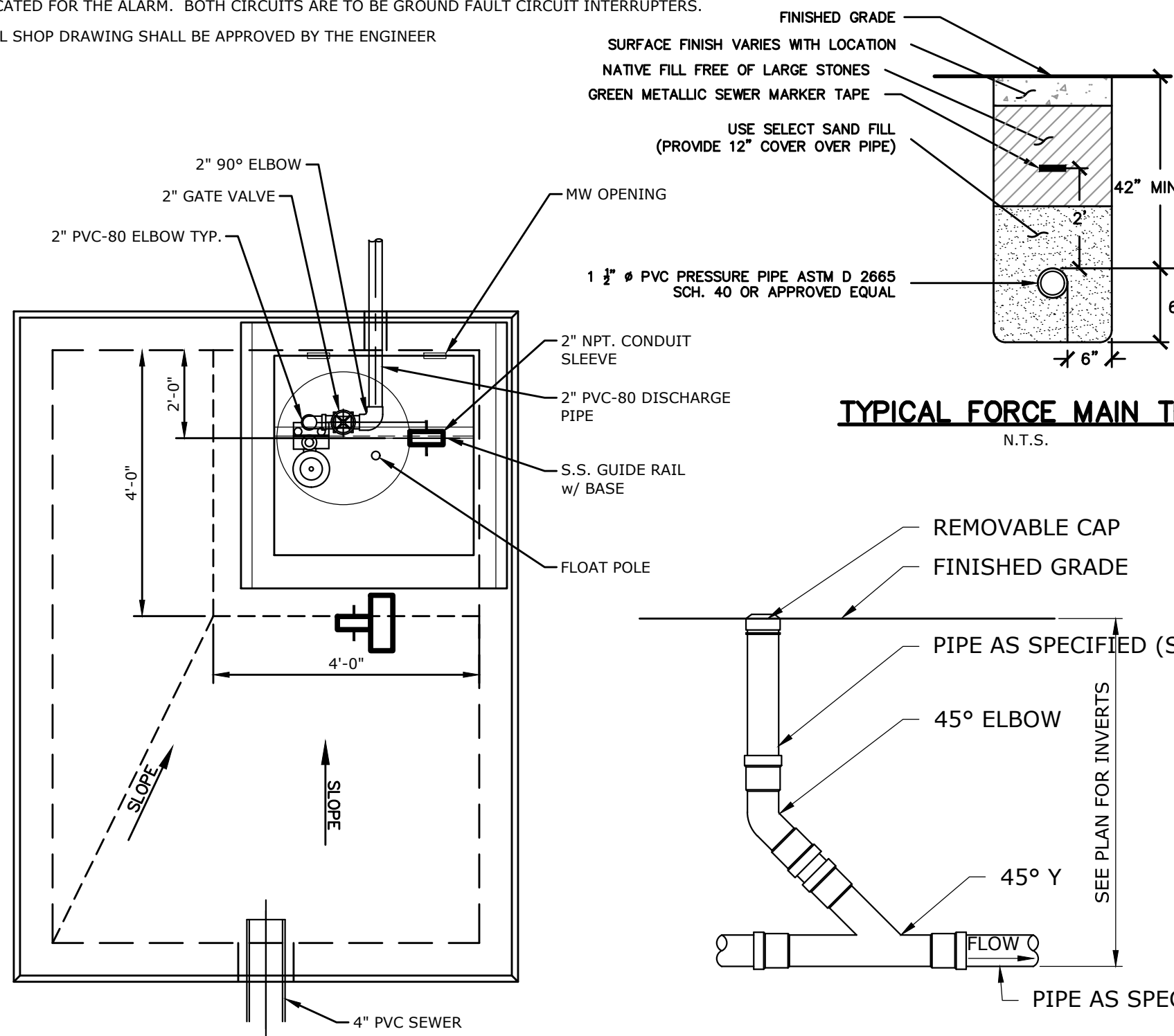
NOT TO SCALE P-SC-5993.02-18

DESCRIPTION	DATE	BY
PLANNING AND ZONING	11/05/20	AWG
TOWN COMMENTS	12/10/20	AWG
FINAL SUBMITTED PLAN - COA	08/02/21	LM

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED
AS NOTED		
DATE: OCTOBER 27, 2020		
PROJECT NO.: 6156-03		
SHEET NO.: 11 OF 15		
SD-1		

PUMP SYSTEM NOTES:

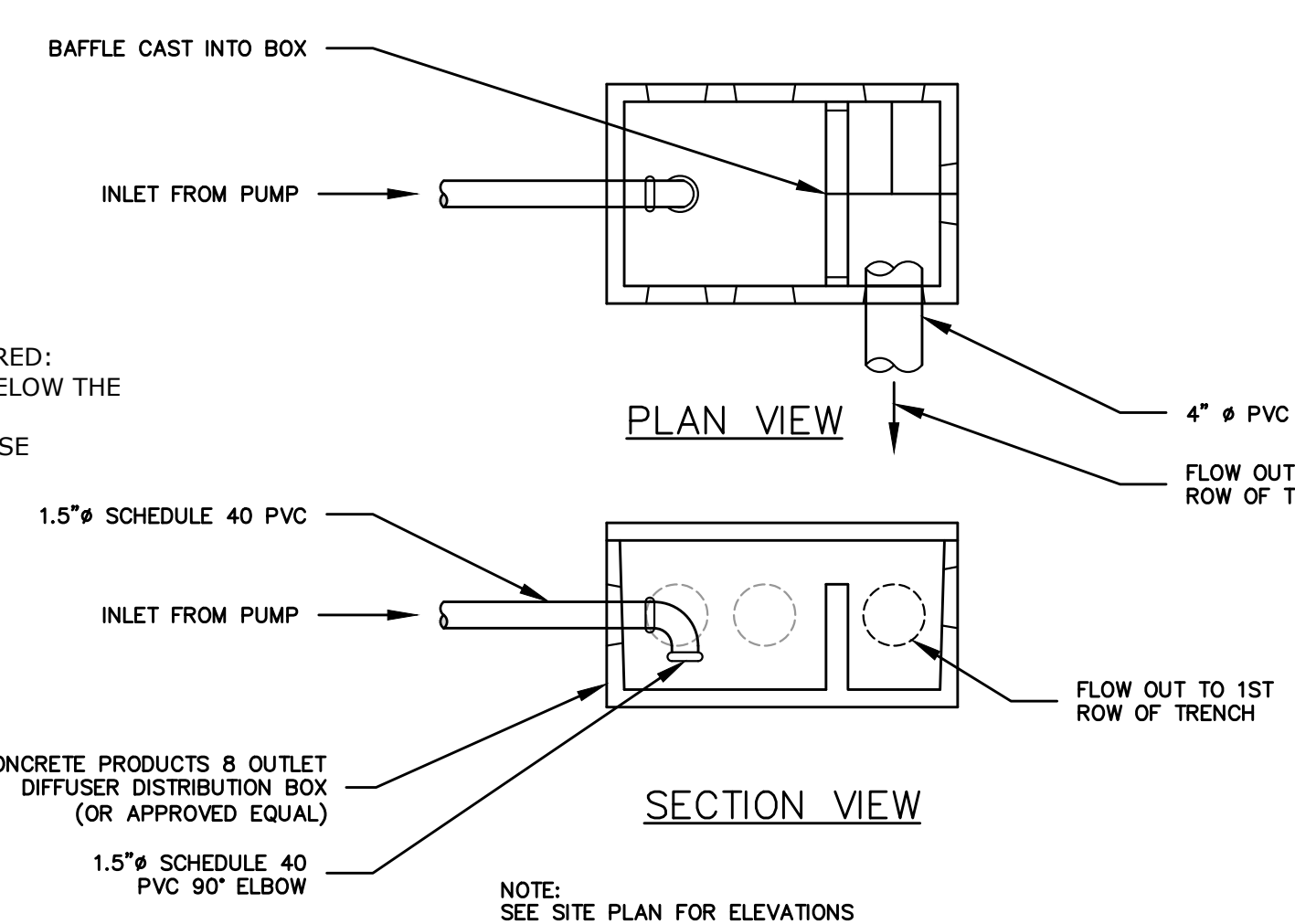
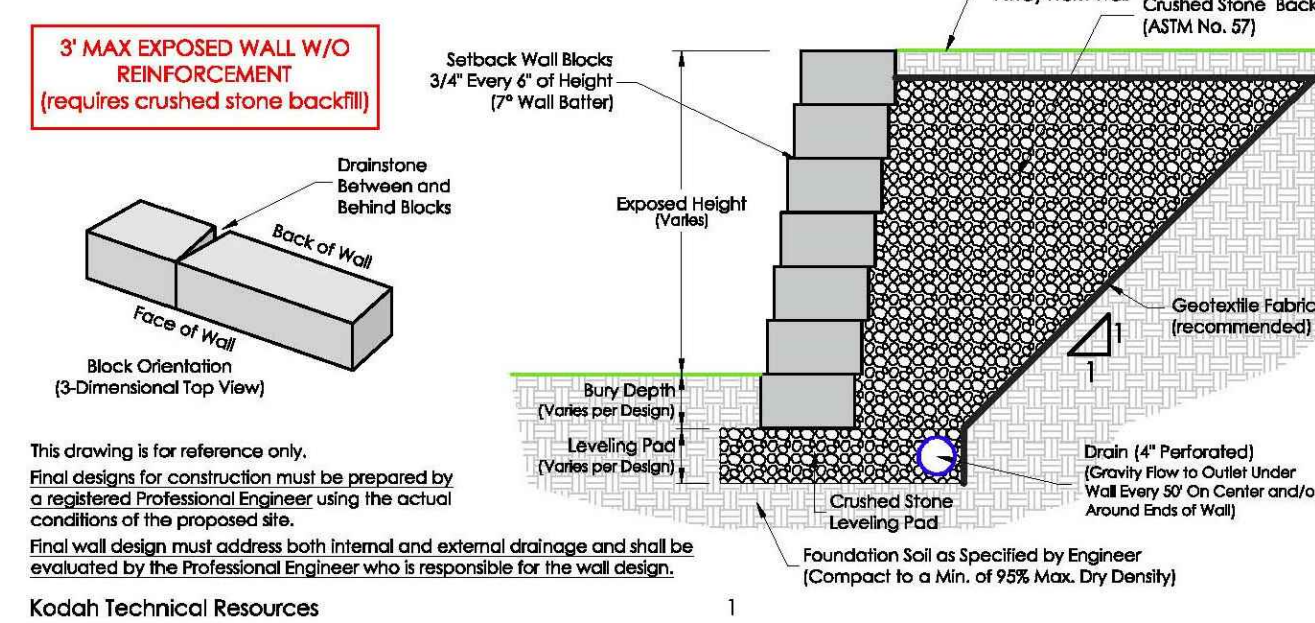
1. THE ACCESS TO THE PUMP CHAMBER SHALL BE BY MEANS OF AN ALUMINUM ACCESS COVER, OR APPROVED EQUAL.
2. PIPING INTO THE PUMP CHAMBER SHALL BE 4" O.D. SOLID SCHEDULE 40 PVC FROM THE SEPTIC TANK OUTLET. PUMP DISCHARGE FORCE MAIN PIPING TO A GRAVITY DISTRIBUTION BOX SHALL BE SCHEDULE 40 PVC PRESSURE WATER PIPE, ASTM D1785/ ASTM D2665.
3. STRUCTURE CONSTRUCTION JOINT SHALL BE SEALED WITH A BUTYL RUBBER GASKET, ASPHALT CEMENT OR OTHER APPROVED MEANS. THE STRUCTURE SHALL BE SEALED WITH A WATERPROOFING COMPOUND OR APPROVED EQUAL.
4. SET STRUCTURE LEVEL ON 1'-0" COMPACTED THICKNESS OF 1 1/4" CRUSHED STONE BASE.
5. ALL ELECTRICAL AND PLUMBING WORK SHALL CONFORM TO APPLICABLE STATE AND LOCAL CODES.
6. ALL WIRING TERMINATIONS ARE TO BE BROUGHT TO A WATERPROOF JUNCTION BOX (NEMA 4X) WITHIN THE PUMP STATION AND THEN TO A CONTROL PANEL. INSTALLED IN THE GARAGE WITH VISUAL AND AUDIBLE HIGH LEVEL ALARM, SILENCE SWITCH, AUTO-OFF-MANUAL SWITCH AND POWER ON LIGHT. ALL ELECTRICAL WORK SHALL BE COMPLETED BY A LICENSED ELECTRICIAN. TWO CIRCUITS ARE TO BE INSTALLED IN THE ELECTRIC PANEL. ONE CIRCUIT TO RUN THE PUMP, AND ONE CIRCUIT DEDICATED FOR THE ALARM. BOTH CIRCUITS ARE TO BE GROUND FAULT CIRCUIT INTERRUPTERS.
7. FINAL SHOP DRAWING SHALL BE APPROVED BY THE ENGINEER



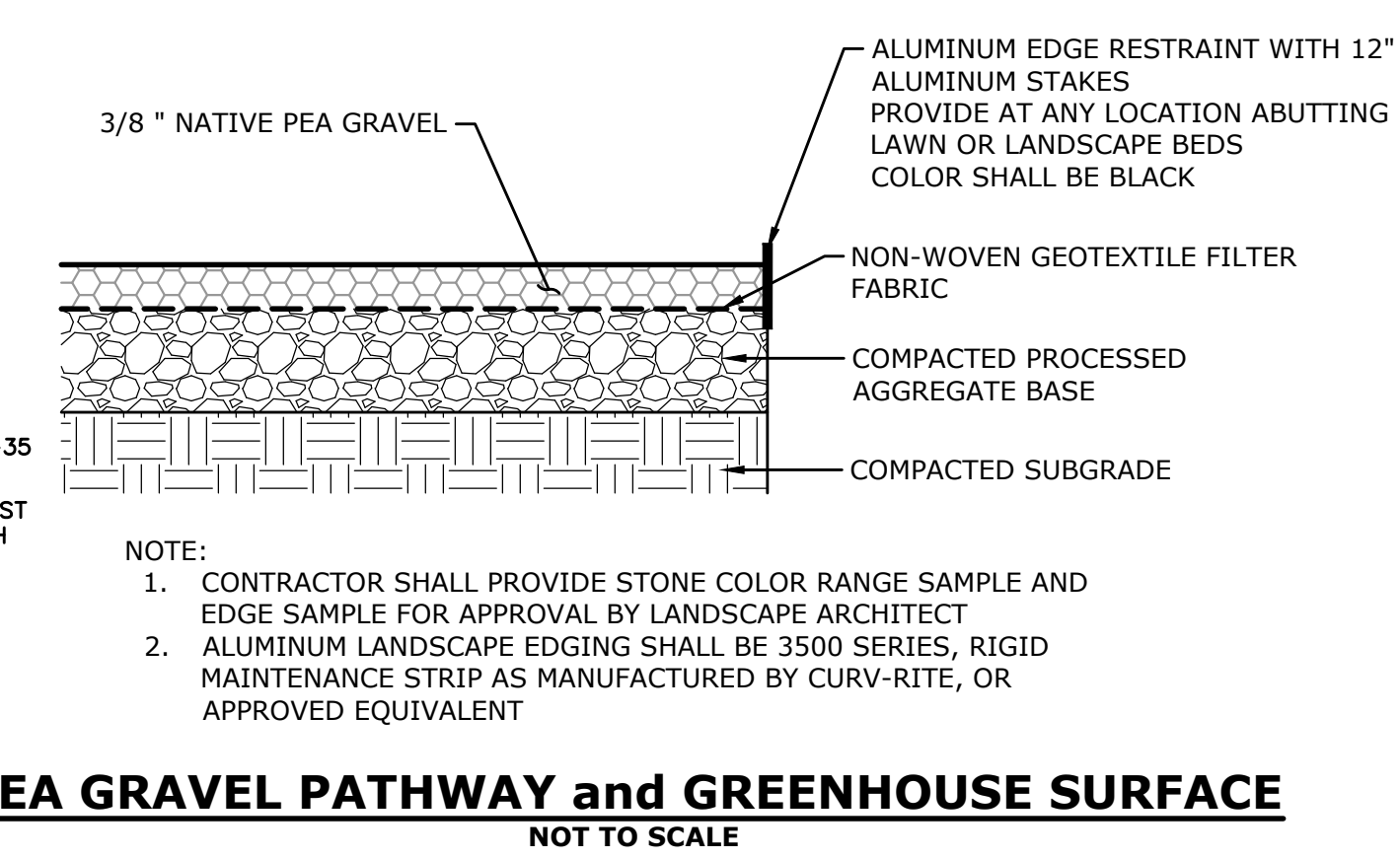
SANITARY SEWER TRENCH
NOT TO SCALE

TYPICAL WALL CONSTRUCTION DETAILS - GRAVITY INSTALLATION

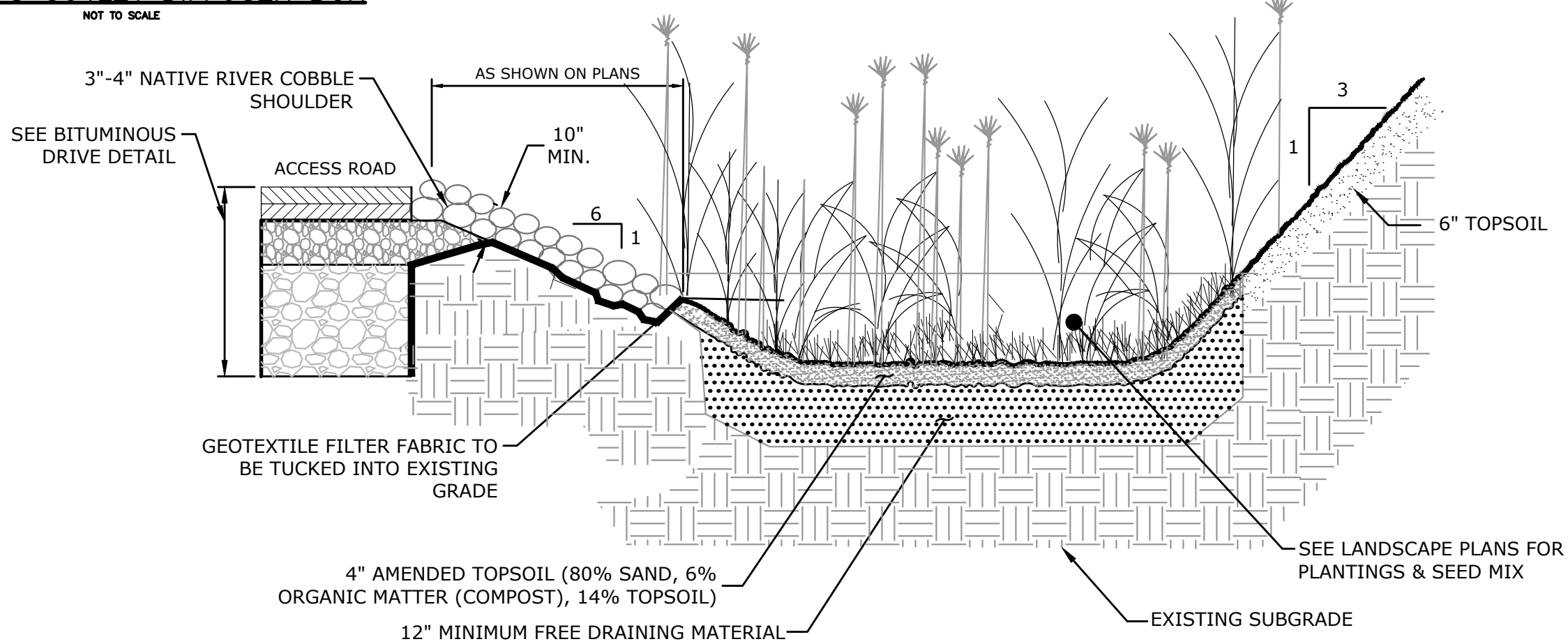
The following are typical construction details for Kodah gravity retaining walls. This drawing represents the major components required in wall construction. Specific details including geotextile placement, drainage details, soil requirements, etc. shall be per the engineered design for the wall.



TYPICAL 8 OUTLET DIFFUSER BOX
NOT TO SCALE

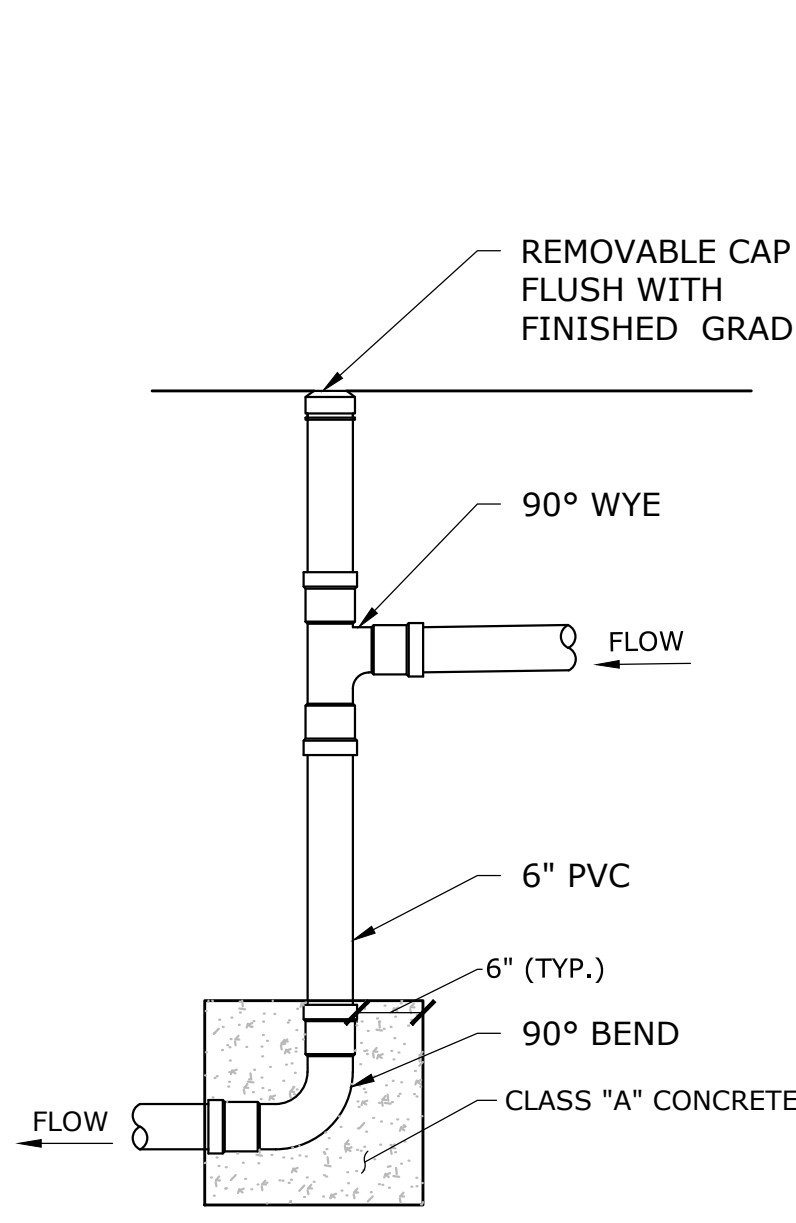


PEA GRAVEL PATHWAY and GREENHOUSE SURFACE
NOT TO SCALE

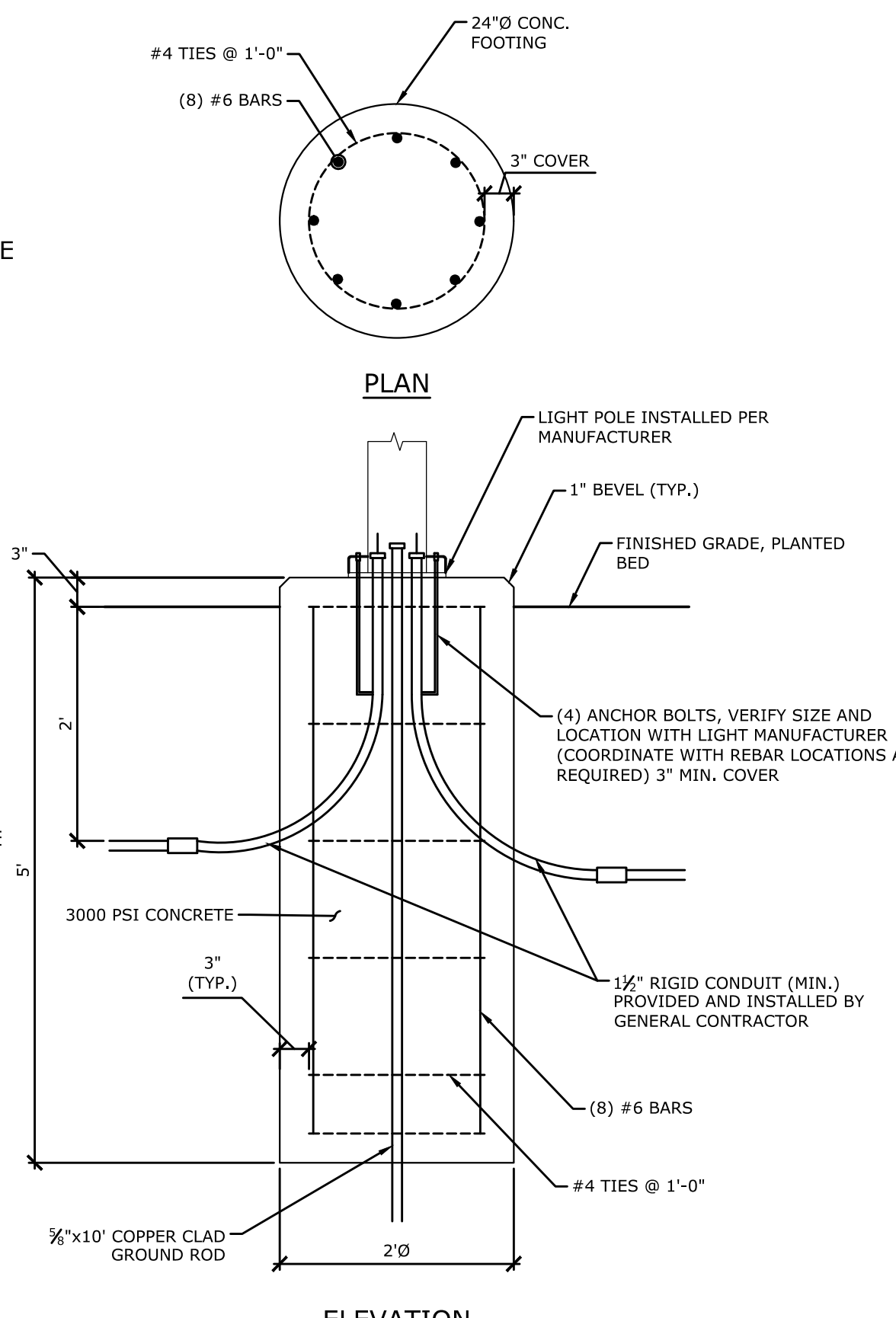


COBBLE FILTER STRIP
NOT TO SCALE

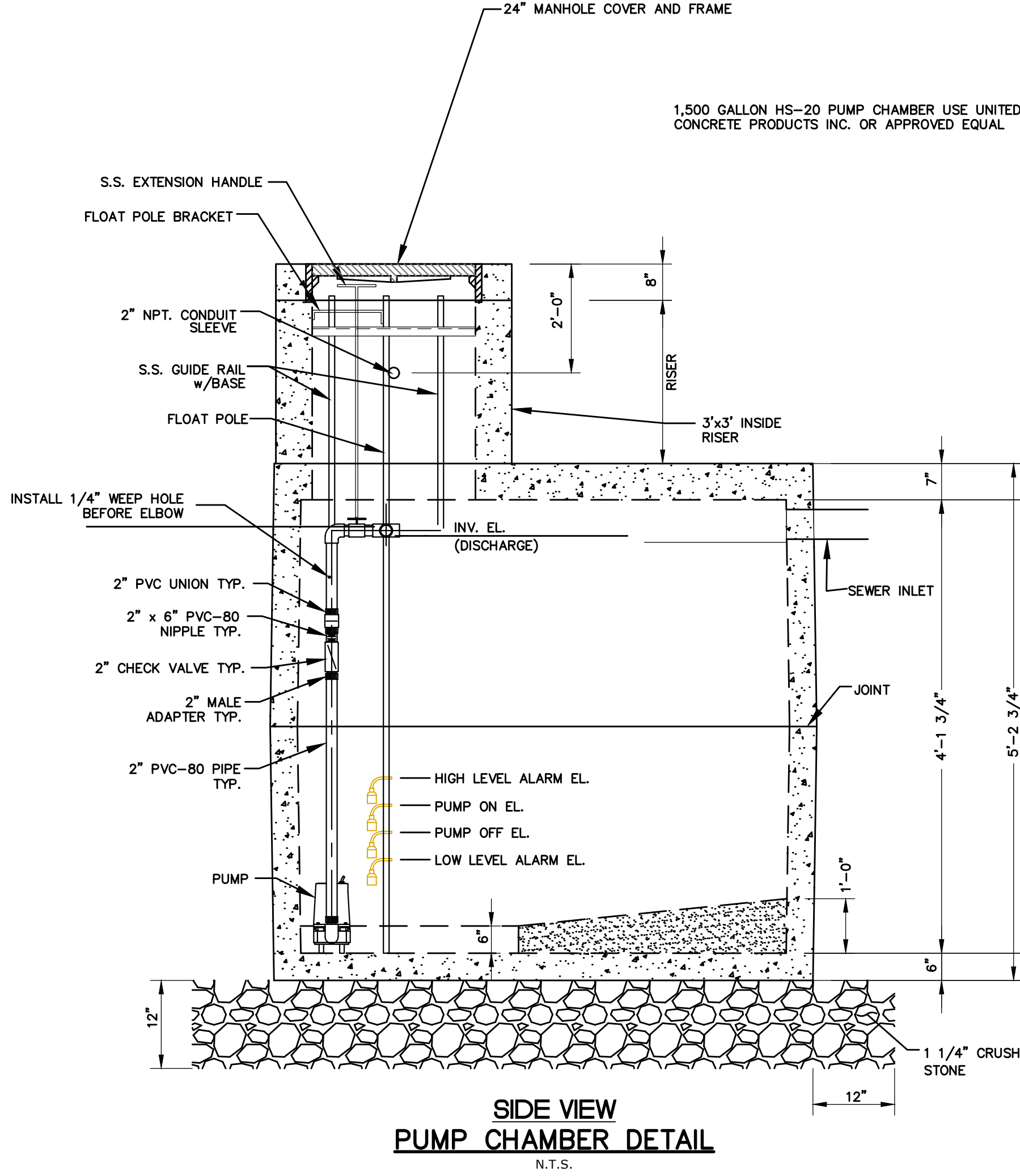
MODULAR BLOCK RETAINING WALL



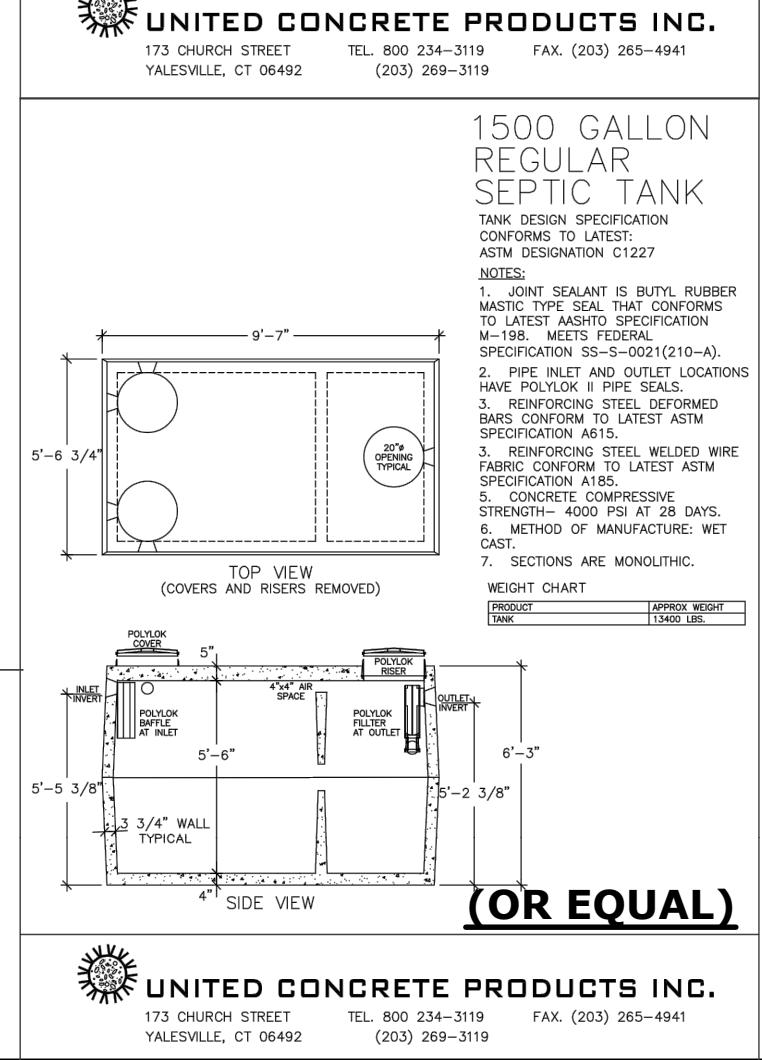
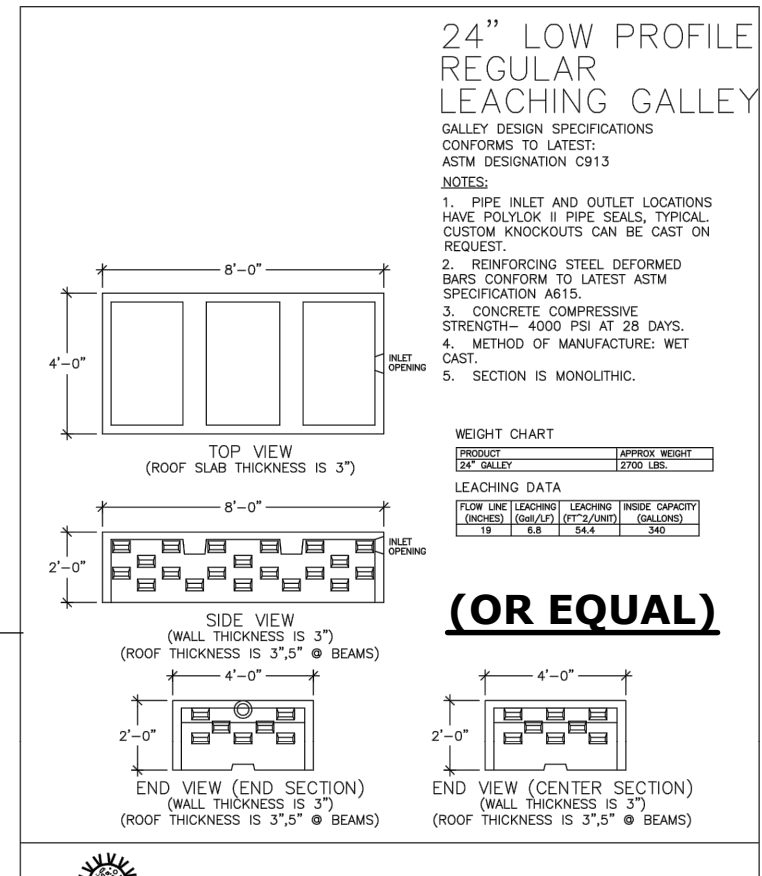
SANITARY CLEANOUT 2 (DROP)
NOT TO SCALE



PEDESTRIAN LIGHT POLE FOUNDATION DETAIL
N.T.S.



SIDE VIEW PUMP CHAMBER DETAIL
N.T.S.



UNITED CONCRETE PRODUCTS INC.

MILONE & MACBROOM
99 BEAULTY DRIVE
CHESHIRE, CT 06810
WWW.MILONEANDMACBROOM.COM

DESCRIPTION	DATE	BY
PLANNING AND ZONING	11/05/20	AWG
TOWN COMMENTS	12/10/20	AWG
SEPTIC TANK SIZE & CLEANOUTS	2/23/21	ACD
FINAL SUBMITTED PLAN - COA	06/02/21	LM

SITE DETAILS

Slate Upper School
5100 RIDGE ROAD
NORTH HAVEN, CONNECTICUT

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

SCALE: **AS NOTED**

DATE: **OCTOBER 27, 2020**

PROJECT NO.: **6156-03**

SHEET NO.: **13 OF 15**

SD-3

FORMATION OF EMBANKMENTS FOR STORMWATER BASINS

1. MATERIALS

ALL FILL MATERIALS SHALL BE OBTAINED FROM REQUIRED EXCAVATIONS OR DESIGNATED BORROW AREAS. FILL MATERIAL SHALL CONTAIN NO FROZEN MATERIAL, SOD, BRUSH, ROOTS, OR OTHER ORGANIC MATERIAL. EARTH EMBANKMENTS SHALL CONTAIN NO STONES OR ROCK PARTICLES OVER THREE INCHES IN DIAMETER.

THE MATERIAL USED IN THE CENTER PORTION OF THE EMBANKMENT SHALL BE THE MOST IMPERVIOUS MATERIAL OBTAINED FROM THE BORROW AREAS IF REQUIRED. THE MORE PERVIOUS MATERIALS SHALL BE USED IN THE OUTER PORTION OF THE EMBANKMENT AS SHOWN ON THE PLANS.

A. IMPERVIOUS FILL MATERIALS

IMPERVIOUS FILL SHALL BE A GLACIAL TILL, AND TO BE PROVIDED FROM AN OFFSITE SOURCE IN THE QUANTITIES REQUIRED FOR COMPLETION. FILL TO BE APPROVED BY THE ENGINEER. GLACIAL TILL SHALL CONSIST OF HARD AND DURABLE PARTICLES OR FRAGMENTS AND SHALL BE FREE FROM ORGANIC MATTER AND OTHER OBJECTIONABLE MATERIALS. GLACIAL TILL SHALL GENERALLY CONFORM TO THE FOLLOWING GRADATION LIMITS:

U.S. STANDARD SIEVE SIZE	PERCENTAGE PASSING BY WEIGHT
NO. 4	100
NO. 10	60-95
NO. 40	30-75
NO. 100	20-65
NO. 200	10-40

2. EMBANKMENT FOUNDATION PREPARATION

AREAS WHERE EMBANKMENTS ARE TO BE FORMED SHALL BE CLEARED AND GRUBBED OF ALL TOPSOIL AND OTHER ORGANIC MATERIALS TO A DEPTH OF AT LEAST 24 INCHES. UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS, FOUNDATION AREAS SHALL BE SCARIFIED TO A DEPTH OF THREE INCHES PRIOR TO PLACEMENT OF FILL MATERIAL.

3. PLACEMENT

NO FILL SHALL BE PLACED UNTIL THE FOUNDATION PREPARATION AND EXCAVATIONS IN THE FOUNDATION HAVE BEEN COMPLETED. NO FILL SHALL BE PLACED ON A FROZEN SURFACE NOR SHALL FROZEN MATERIAL BE INCORPORATED.

A. EMBANKMENT

MATERIAL SHALL BE PLACED IN HORIZONTAL LAYERS. THE THICKNESS OF LAYERS SHALL BE SIX INCHES. DURING CONSTRUCTION, THE SURFACE OF THE FILL SHALL HAVE A CROWN OR CROSS-SLOPE OF NOT LESS THAN TWO PERCENT. EACH LAYER OR LIFT SHALL EXTEND OVER THE ENTIRE AREA OF THE FILL.

THE FILL SHALL BE FREE FROM LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL DIFFERING SUBSTANTIALLY IN TEXTURE OR GRADATION FROM THE SURROUNDING MATERIAL. THE MORE PERVIOUS MATERIAL SHALL BE PLACED IN THE OUTSIDE PORTION OF THE EMBANKMENT OR AS INDICATED ON THE DRAWINGS. THE FINISHED FILL SHALL BE SHAPED AND GRADED TO THE LINES AND GRADE SHOWN ON THE DRAWINGS.

B. BACKFILL AT THE PIPE OUTLET

BACKFILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED THREE INCHES IN THICKNESS AND SHALL BE BROUGHT UP UNIFORMLY AROUND THE OUTLET PIPE AND FLARED END SECTION

4. MOISTURE CONTROL

THE MOISTURE CONTENT OF MATERIALS IN THE EMBANKMENT SHALL BE CONTROLLED TO MEET THE REQUIREMENTS OF SECTION 5, "COMPACTION OF EMBANKMENT," WHEN NECESSARY, MOISTURE SHALL BE ADDED BY USE OF APPROVED SPRINKLING EQUIPMENT. WATER SHALL BE ADDED UNIFORMLY AND EACH LAYER SHALL BE THOROUGHLY DISKED OR HARROWED TO PROVIDE ROPE MIXING. ANY LAYER FOUND TOO WET FOR PROPER COMPACTION SHALL BE ALLOWED TO DRY BEFORE ROLLING, PLACING OR ROLLING OF MATERIAL ON EARTH FILLS WILL NOT BE PERMITTED DURING OR IMMEDIATELY AFTER RAINFALLS WHICH INCREASE THE MOISTURE CONTENT BEYOND THE LIMIT OF SATISFACTORY COMPACTION. THE EARTH FILL SHALL BE BROUGHT UP UNIFORMLY AND ITS TOP SHALL BE KEPT GRADED AND SLOPED SO THAT A MINIMUM OF RAINWATER WILL BE RETAINED THEREON. COMPACTED EARTH FILL DAMAGED BY WASHING SHALL BE ACCEPTABLY REPLACED BY THE CONTRACTOR.

5. COMPACTION

A. EMBANKMENT

EMBANKMENT MATERIAL SHALL BE COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY AT NEAR OPTIMUM MOISTURE CONTENT AND BY THE COMPACTION EQUIPMENT SPECIFIED HEREIN. THE COMPACTION EQUIPMENT SHALL TRAVERSE THE ENTIRE SURFACE OF EACH LAYER OF FILL MATERIAL.

APPROVED TAMPING ROLLERS SHALL BE USED FOR COMPACTING ALL PARTS OF THE EMBANKMENTS WHICH THEY CAN EFFECTIVELY REACH. THE CONTRACTOR SHALL DEMONSTRATE THE EFFECTIVENESS OF THE ROLLER BY ACTUAL SOIL COMPACTION RESULTS OF THE SOIL TO BE USED IN THE EMBANKMENT WITH LABORATORY WORK PERFORMED BY AN APPROVED SOIL TESTING LABORATORY.

B. BACKFILL AT OUTLET CONDUIT

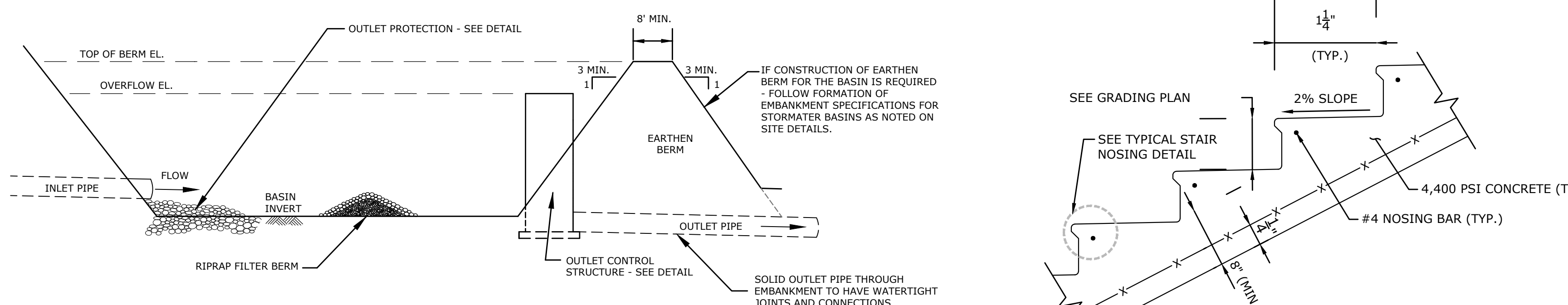
BACKFILL SHALL BE COMPACTED BY HAND TAMPING WITH MECHANICAL TAMPERS. HEAVY EQUIPMENT SHALL NOT BE OPERATED WITHIN TWO FEET OF ANY STRUCTURE. EQUIPMENT SHALL NOT BE ALLOWED TO OPERATE OVER THE OUTLET CONDUITS UNTIL THERE IS 24 INCHES OF FILL OVER THE PIPE CONDUITS.

6. FINISHING EMBANKMENTS

THE EMBANKMENTS SHALL BE CONSTRUCTED TO THE ELEVATIONS, LINES, GRADES AND CROSS-SECTIONS AS SHOWN ON THE DRAWINGS. THE EMBANKMENTS SHALL BE MAINTAINED IN A MANNER SATISFACTORY TO THE ENGINEER AND SURFACES SHALL BE COMPACT AND ACCURATELY GRADED BEFORE TOPSOIL IS PLACED ON THEM. THE CONTRACTOR SHALL CHECK THE EMBANKMENT SLOPES WITH STRING LINES TO INSURE THAT THEY CONFORM TO THE SLOPES GIVEN ON THE PLANS AND ARE UNIFORM FOR THE ENTIRE LENGTH OF THE SLOPE.

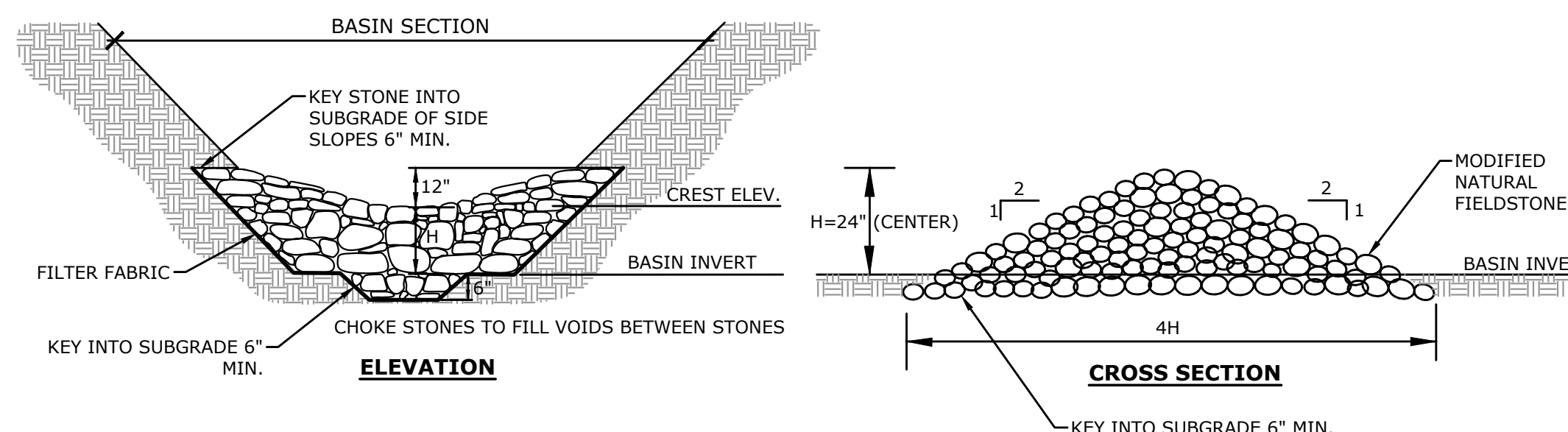
7. CONTROL OF WATER

THE PROJECT SITE IS SUBJECT TO HIGH WATER TABLE. THE CONTRACTOR SHALL USE TEMPORARY PIPES OR PUMPS TO ASSURE PLACEMENT OF SELECT FILL IN DRY CONDITIONS.

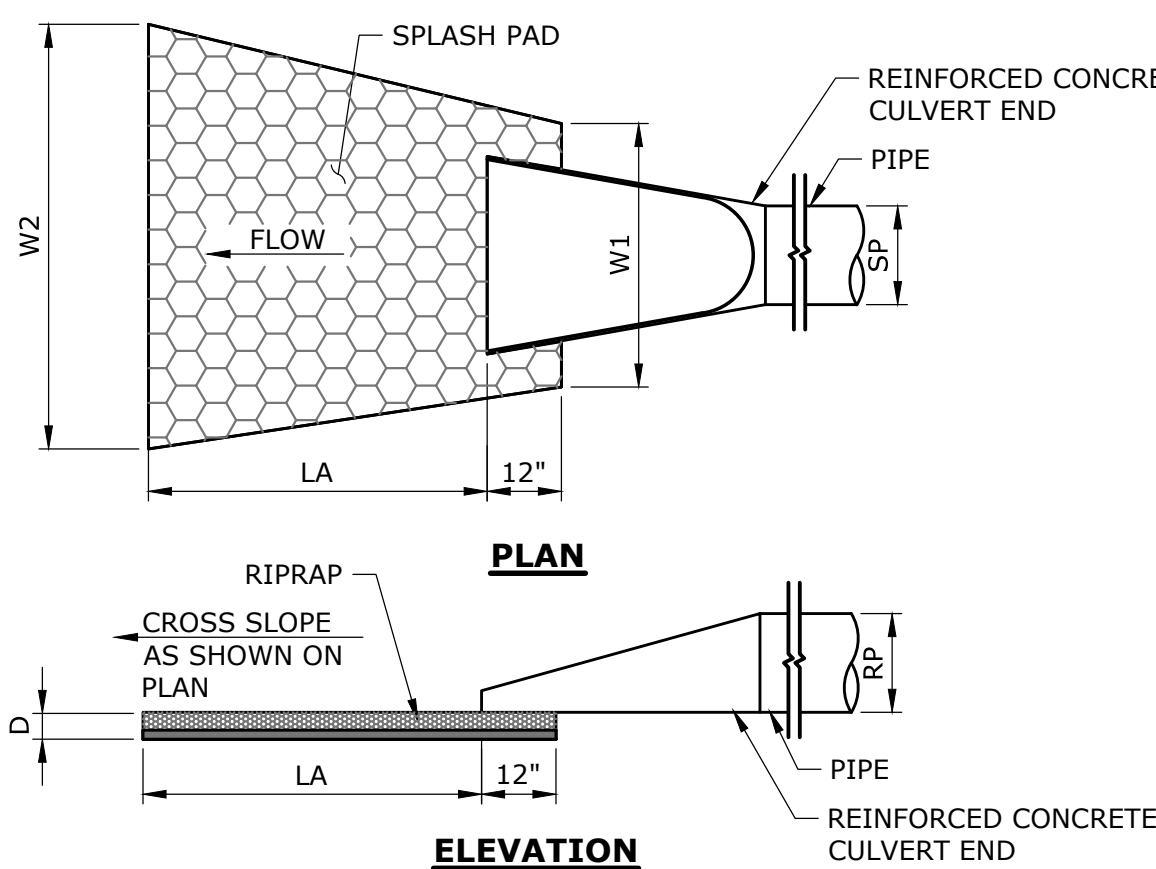


NOTE: WHERE LEDGE IS ENCOUNTERED, OVEREXCAVATE BY 2 FEET AND REPLACE WITH 18" OF SOIL AND 6" OF TOPSOIL. TOPSOIL IN THE BOTTOM OF THE BASIN IS TO BE 6" DEEP AND 6% ORGANIC CONTENT MINIMUM.

TYPICAL DETENTION BASIN
NOT TO SCALE

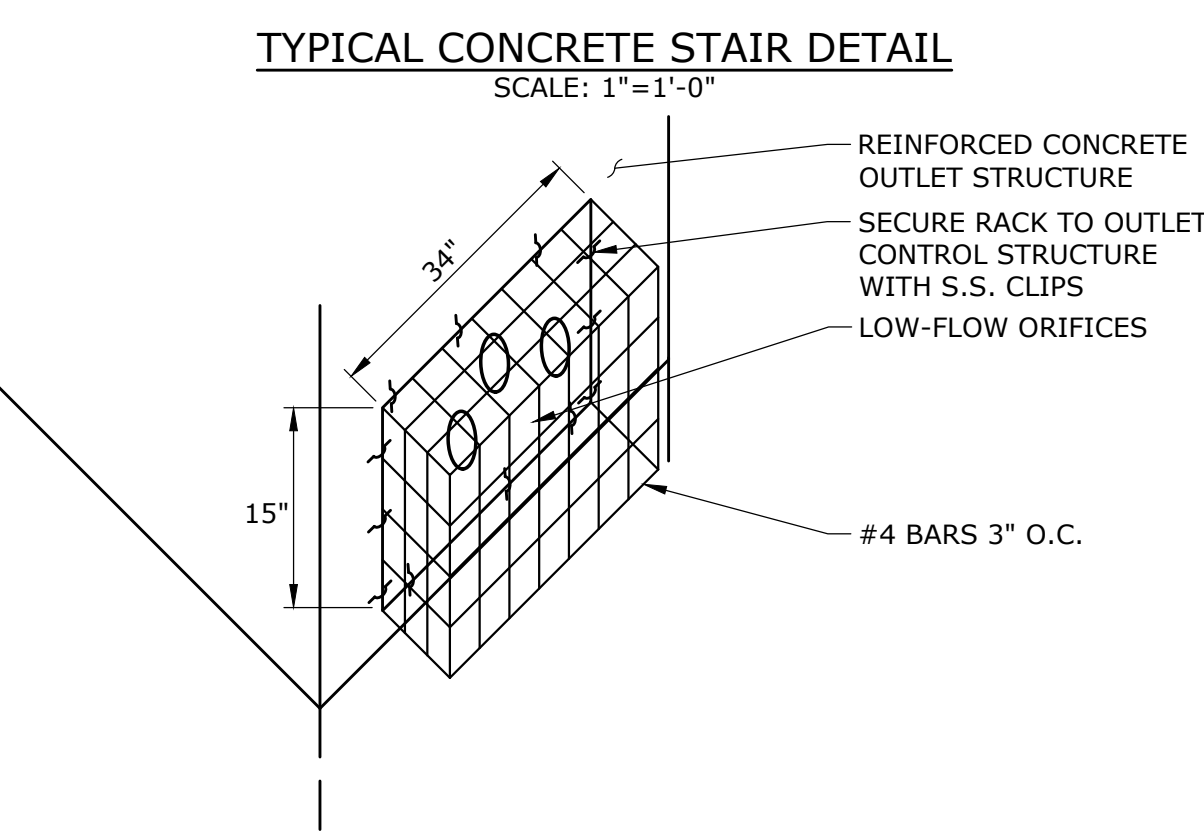


RIPRAP FILTER BERM
NOT TO SCALE



OUTLET PROTECTION ID	TYPE	SP (FT)	RP (FT)	LA (FT)	W1 (FT)	W2 (FT)	D (IN)
FES 3	MODIFIED TYPE B	1.25	1.25	12.0	4.0	9.0	12

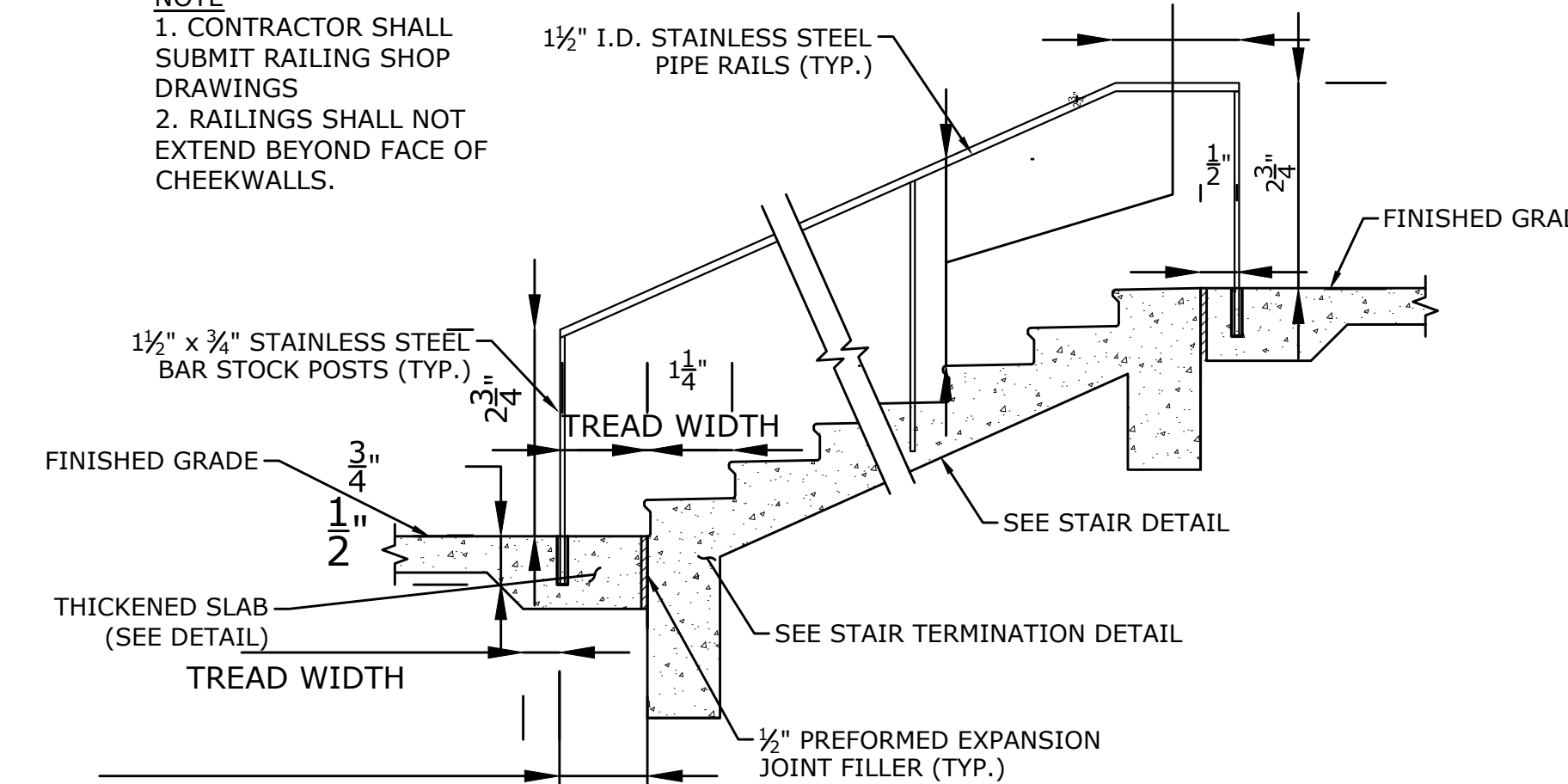
FLARED END WITH RIP RAP SPLASH PAD
NOT TO SCALE



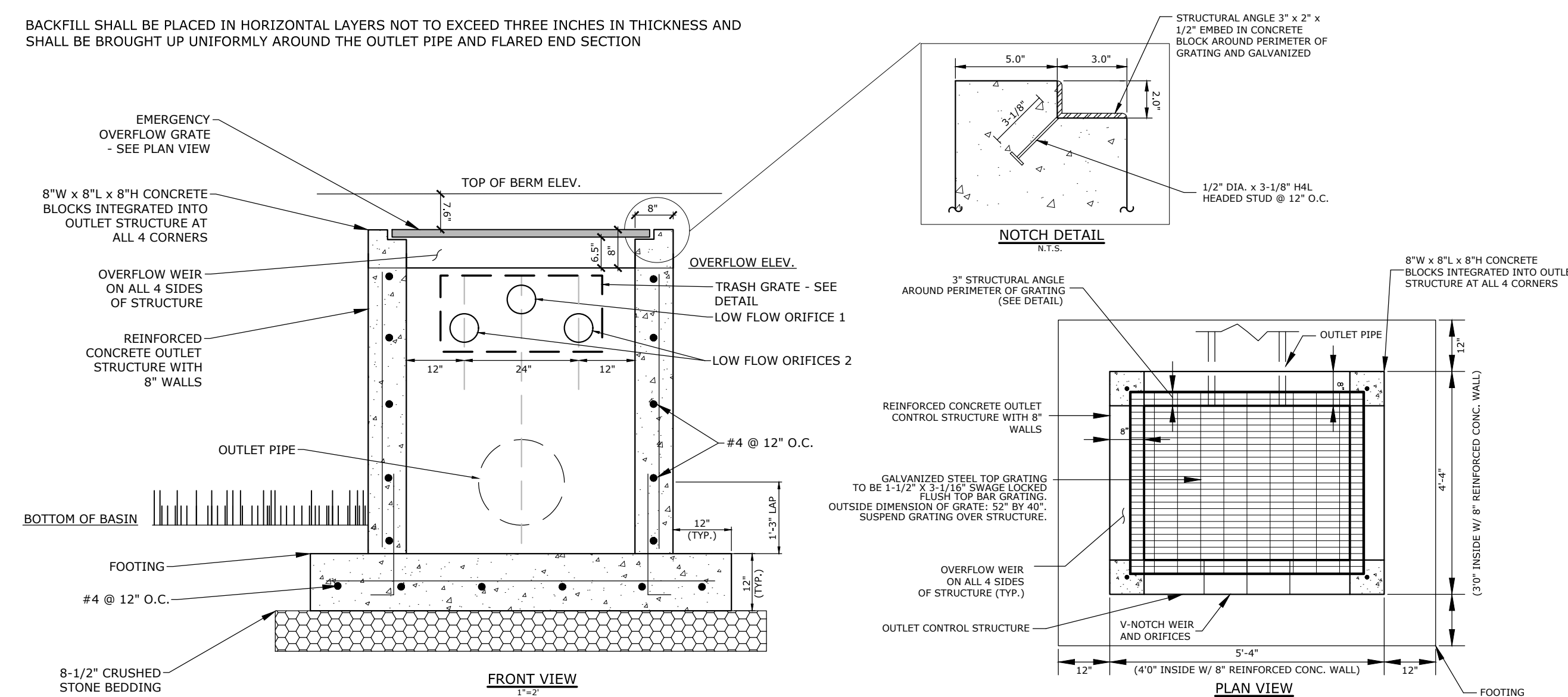
TYPICAL CONCRETE STAIR DETAIL
SCALE: 1"=1'-0"

OUTLET STRUCTURE TRASH GRATE
NOT TO SCALE

NOTE
1. CONTRACTOR SHALL SUBMIT RAILING SHOP DRAWINGS
2. RAILINGS SHALL NOT EXTEND BEYOND FACE OF CHEEKWALLS.



TYPICAL CONCRETE STAIR/STAINLESS STEEL HANDRAIL SECTION
SCALE: 1/2"=1'-0"

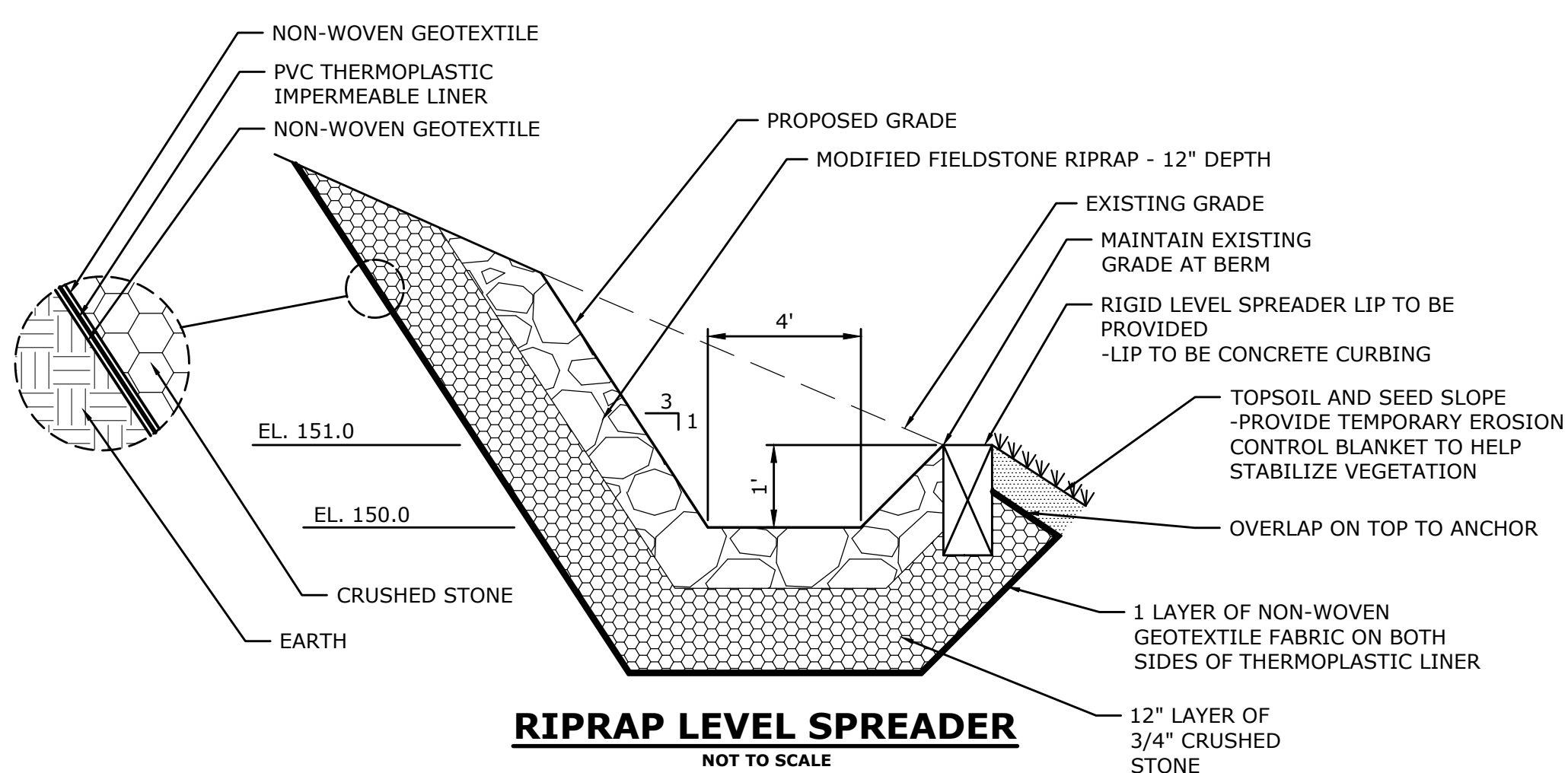


DET 110

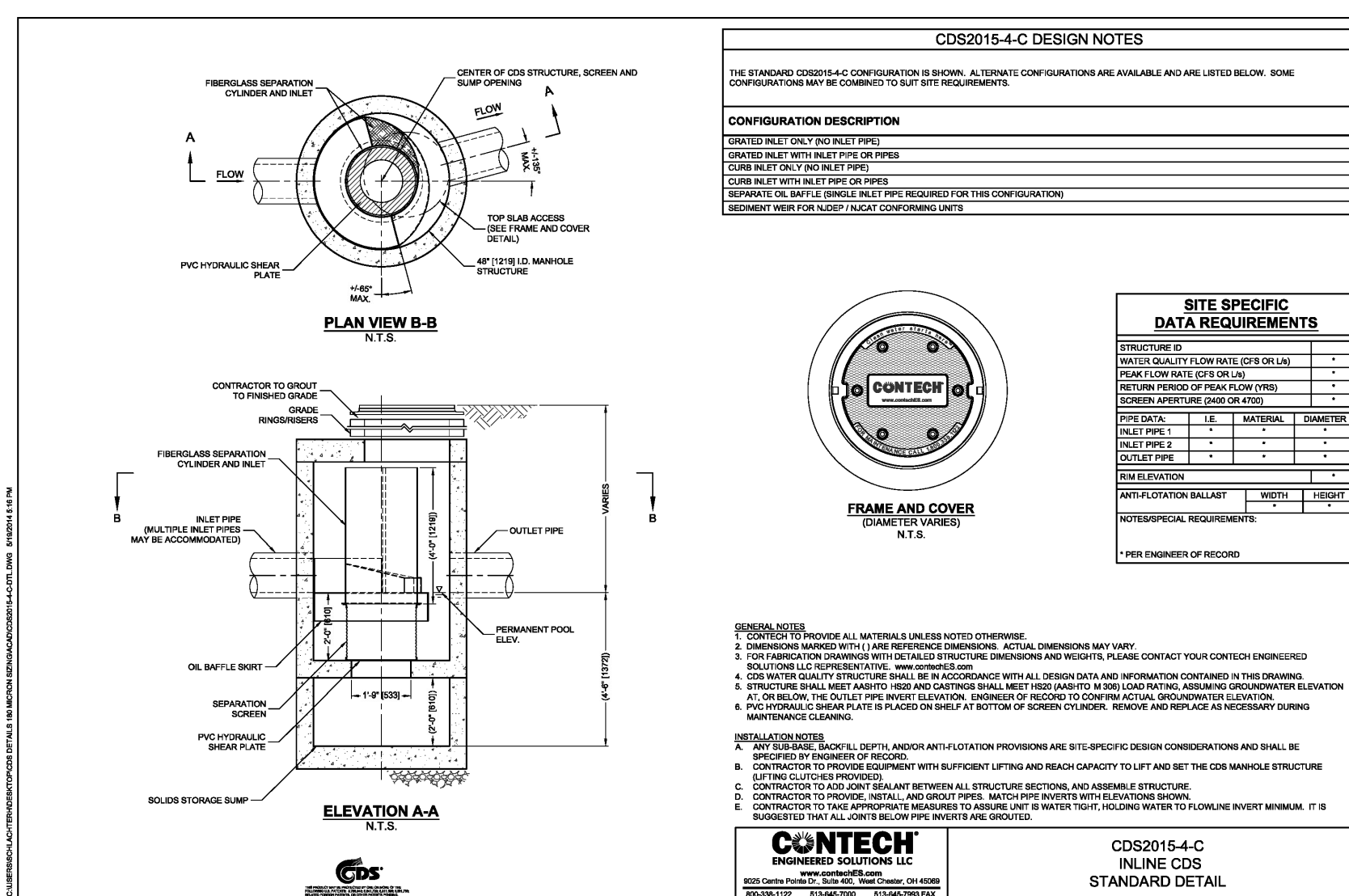
TOP OF BERM ELEVATION	158.8
OVERFLOW ELEVATION	157.5
100-YEAR WATER SURFACE ELEV.	157.8
LOW FLOW ORIFICE 1 DIAMETER	6"
LOW FLOW ORIFICE 1 INVERT	156.62
LOW FLOW ORIFICE 2 DIAMETER	2 ORIF. OF 6"
LOW FLOW ORIFICE 2 INVERT	156.2
BASIN BOTTOM ELEVATION	153.0
OUTLET PIPE DIAMETER	18"
OUTLET PIPE INVERT	153.0

OUTLET CONTROL STRUCTURE - DET 110

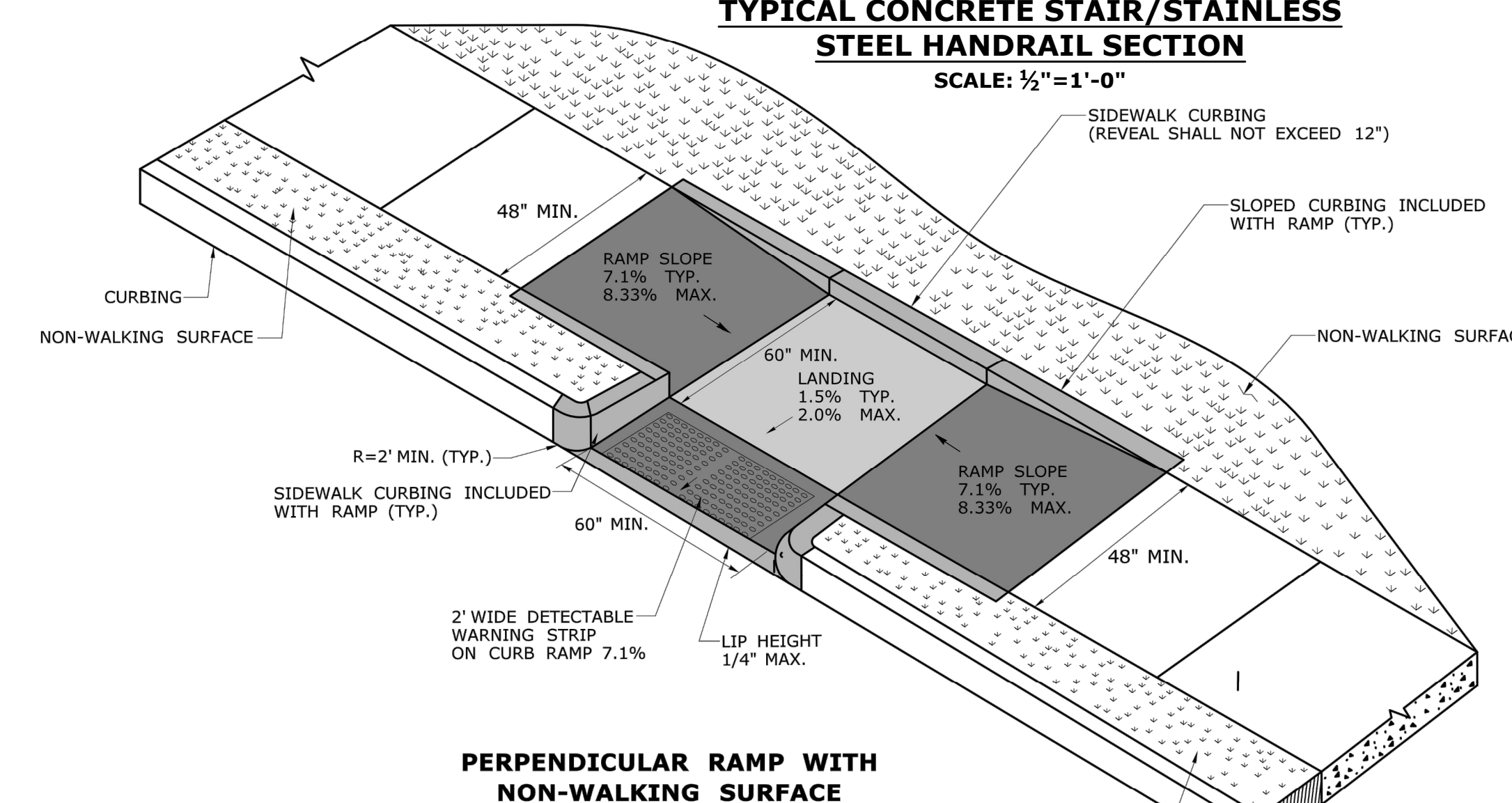
SCALE: 1"=2'



RIPRAP LEVEL SPREADER
NOT TO SCALE



CONTECH CDS 2015-4-C OR APPROVED EQUAL
NOT TO SCALE



PERPENDICULAR RAMP WITH NON-WALKING SURFACE

GENERAL NOTES:

- SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
- VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
- REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
- THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



DESCRIPTION	DATE	BY
PLANNING AND ZONING	11/05/20	AWG
TOWN COMMENTS	12/10/20	NCE
WETLANDS HEARING RESPONSE	2/17/21	AWG
DOH COMMENTS	3/26/21	PAB
COMMITTEE RESPONSE LETTER P&Z	5/14/21	AWG
FINAL SUBMITTED PLAN - COA	06/22/21	AWG

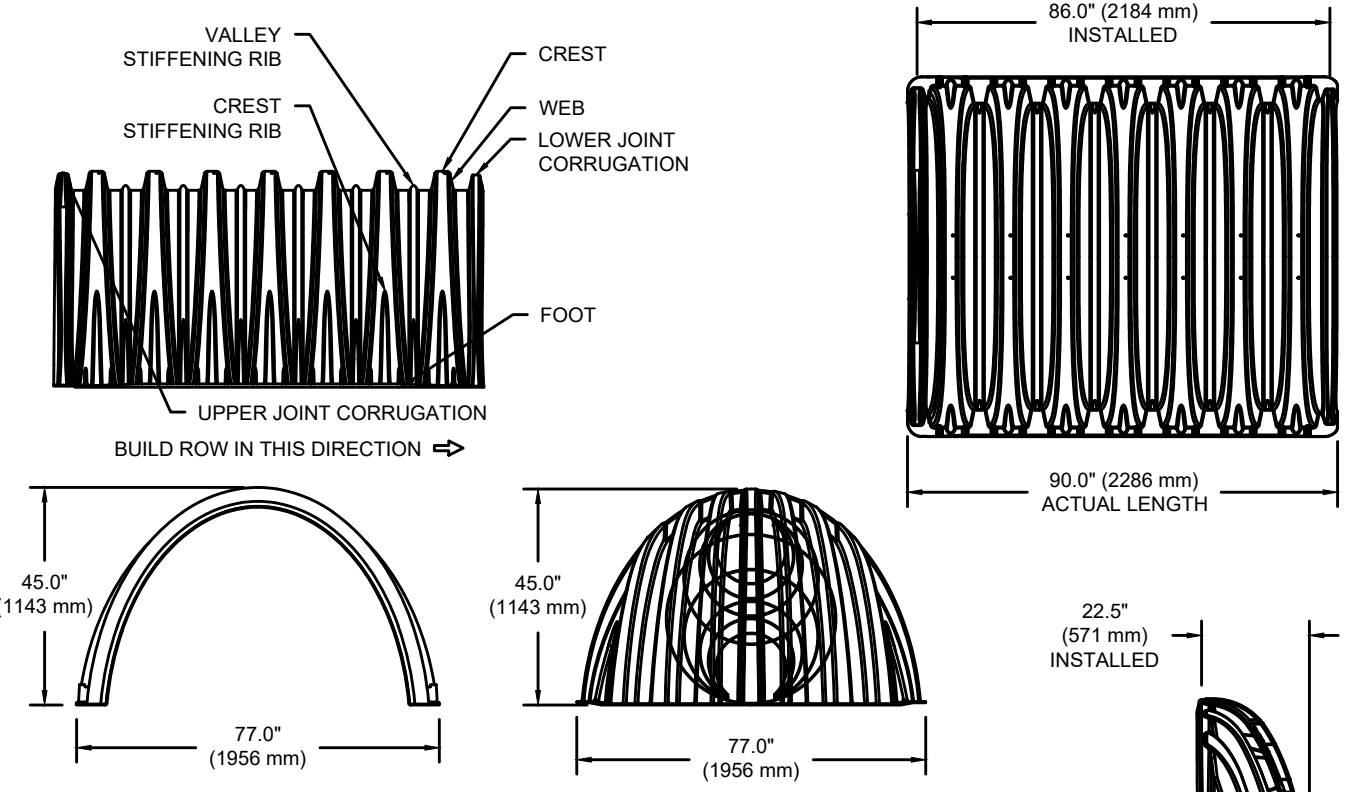
SITE DETAILS
SLATE UPPER SCHOOL
5100 RIDGE ROAD
NORTH HAVEN, CONNECTICUT

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

AS NOTED
DATE: OCTOBER 27, 2020
PROJECT NO: 6156-03
SHEET NO: 14 OF 15
SHEET NAME: SD-4

STORMWATER CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500 OR APPROVED EQUAL.
- CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS 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 MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE.
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES 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 AASHTO FOR THERMOPLASTIC PIPE.
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET (3.11 m ³)
MINIMUM INSTALLED STORAGE*	178.9 CUBIC FEET (5.06 m ³)
WEIGHT	135.0 lbs. (61.2 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	(1956 mm X 1143 mm X 571 mm)
END CAP STORAGE	14.9 CUBIC FEET (0.42 m ³)
MINIMUM INSTALLED STORAGE*	46.0 CUBIC FEET (1.30 m ³)
WEIGHT	50.0 lbs. (22.7 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

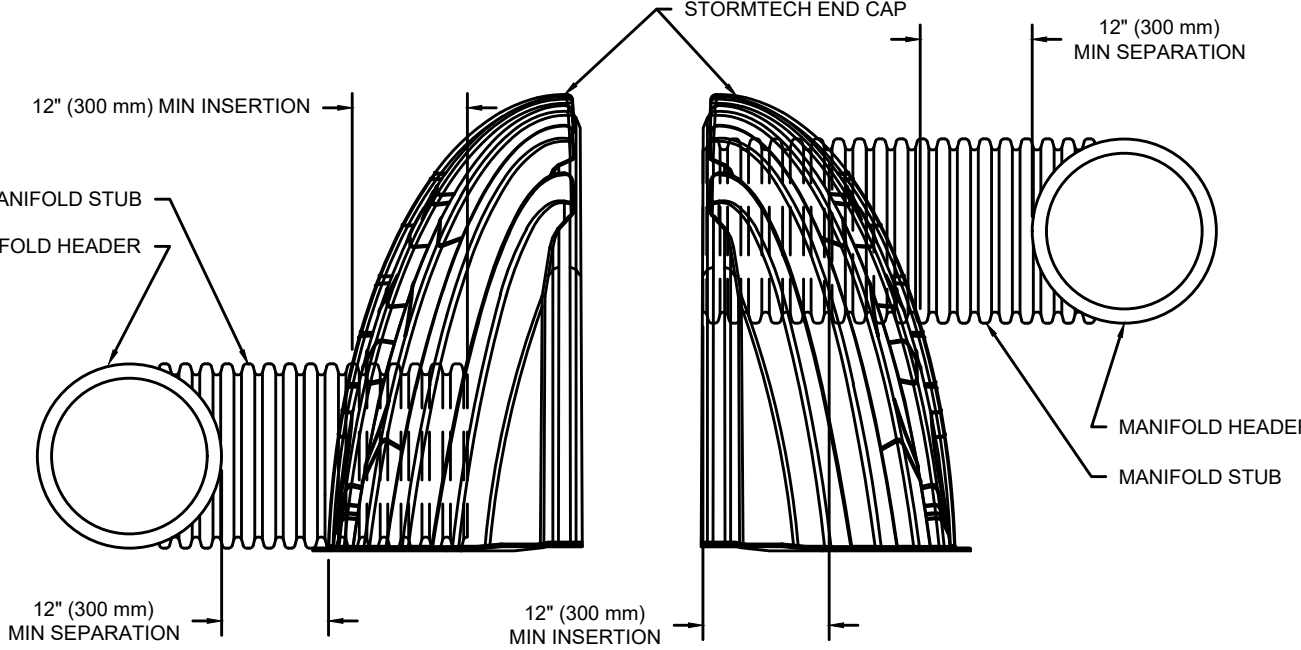
STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	B	C
MC3500EPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500EPP06B	---	---	0.66" (17 mm)
MC3500EPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500EPP08B	---	---	0.81" (21 mm)
MC3500EPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500EPP10B	---	---	0.93" (24 mm)
MC3500EPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500EPP12B	---	---	1.35" (34 mm)
MC3500EPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500EPP15B	---	---	1.50" (38 mm)
MC3500EPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500EPP18BC	---	---	1.77" (45 mm)
MC3500EPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500EPP24BC	---	---	2.06" (52 mm)
MC3500EPP30BC	30" (750 mm)	---	---

NOTE: ALL DIMENSIONS ARE NOMINAL.

CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED 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.

MC-3500 TECHNICAL SPECIFICATION



MC-SERIES END CAP INSERTION DETAIL

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

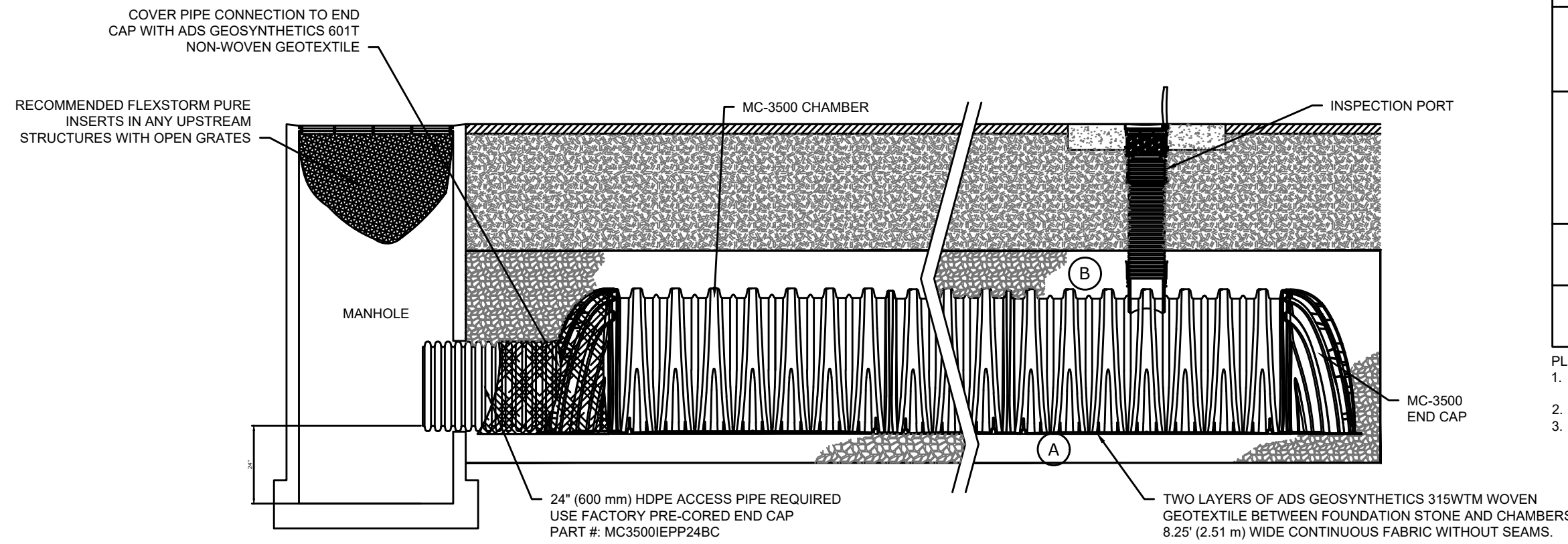
IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- 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 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 - 9" (230 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 3/4" (20-50 mm) 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.
- 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 Tired 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.
- THE 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.



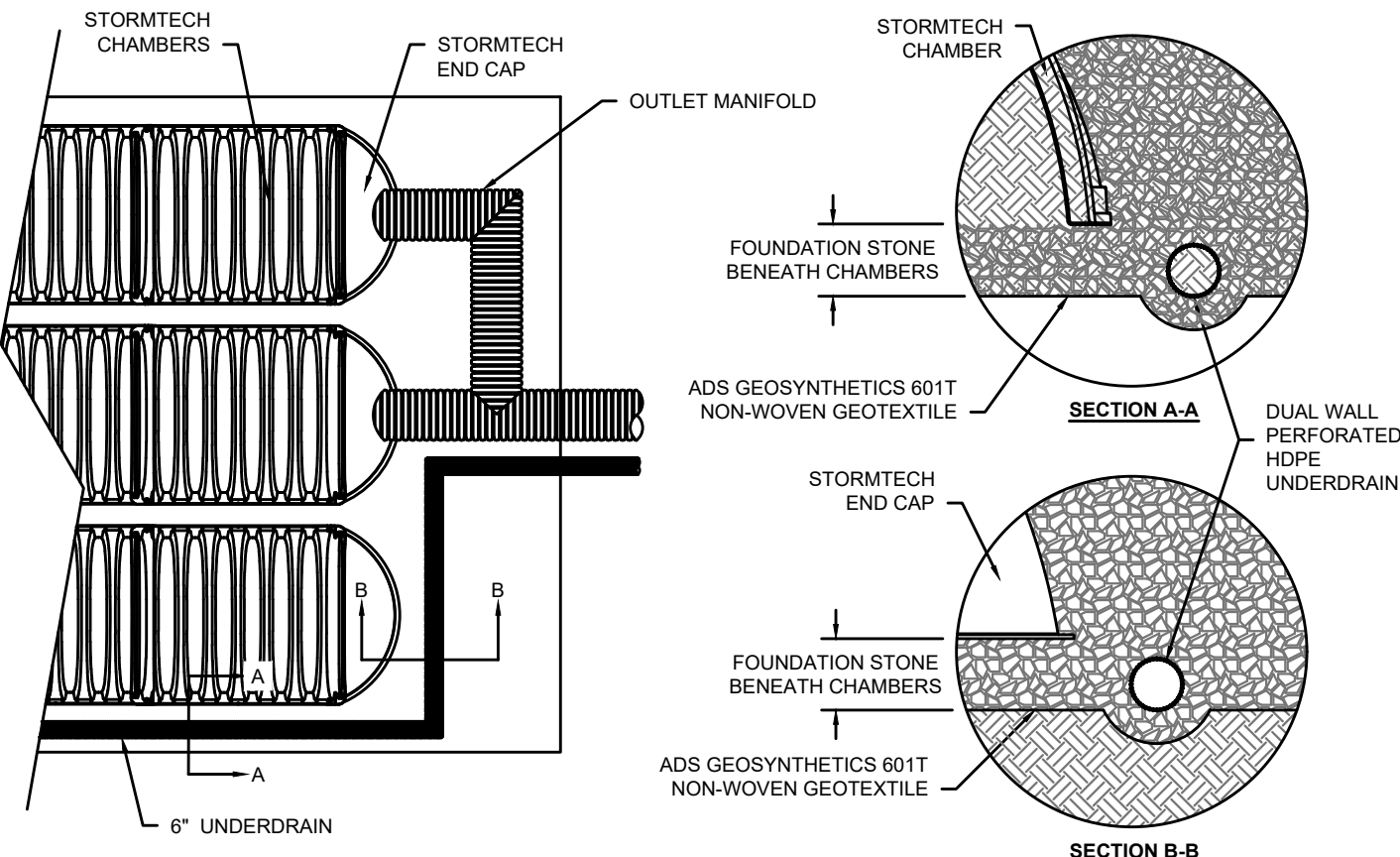
INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- 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 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.
 - ALL ISOLATOR ROWS
 - REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - MIRRORS ON 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 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 SLUMP 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 EVENTS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

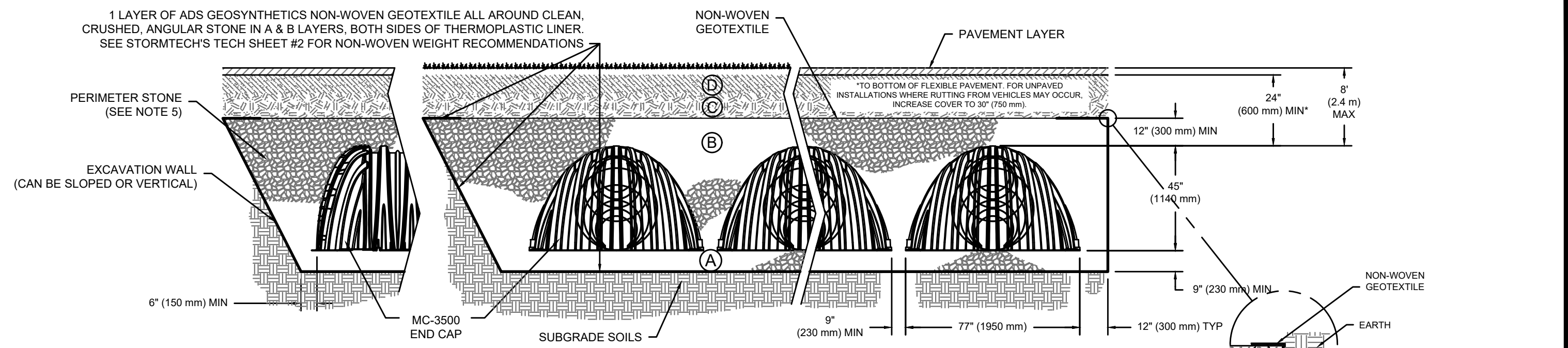
MC-3500 ISOLATOR ROW DETAIL



UNDERDRAIN DETAIL

**UNDERGROUND DETENTION SYSTEM
STORMTECH MC-3500 TYPICAL DETAILS**

NOT TO SCALE



NOTES:

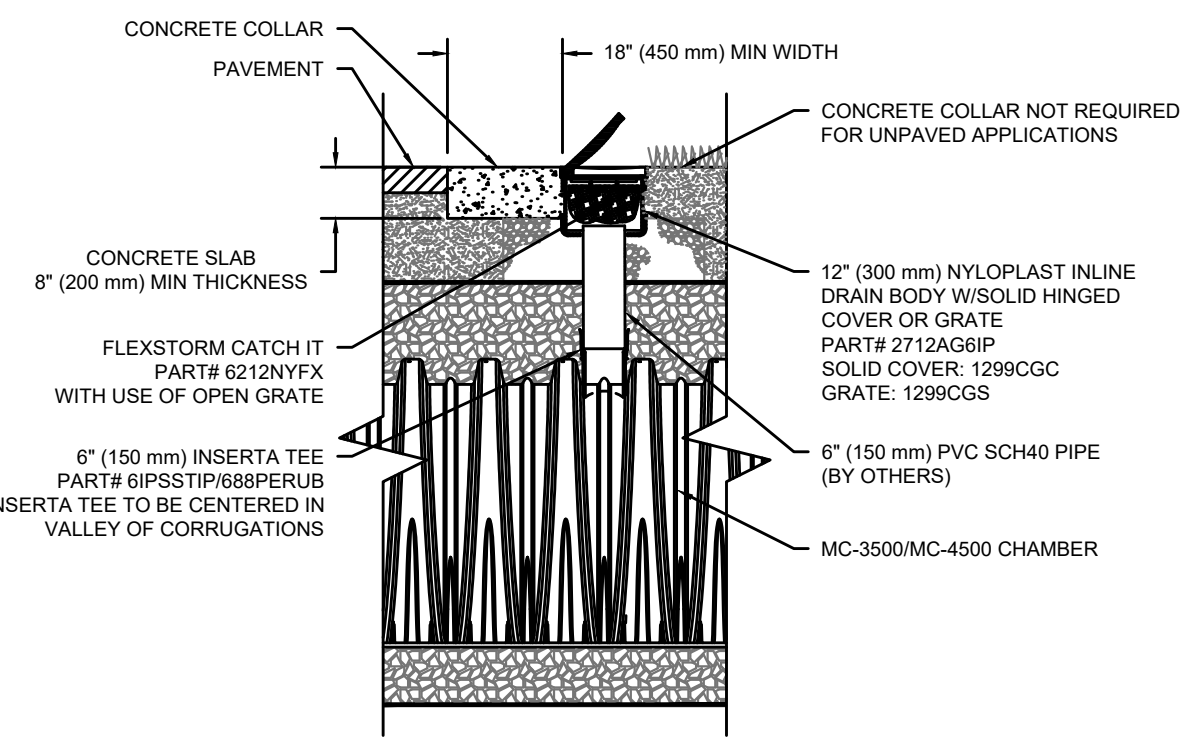
- MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- 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.
- 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.

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL-GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43 ¹ 3, 4	
A 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. **

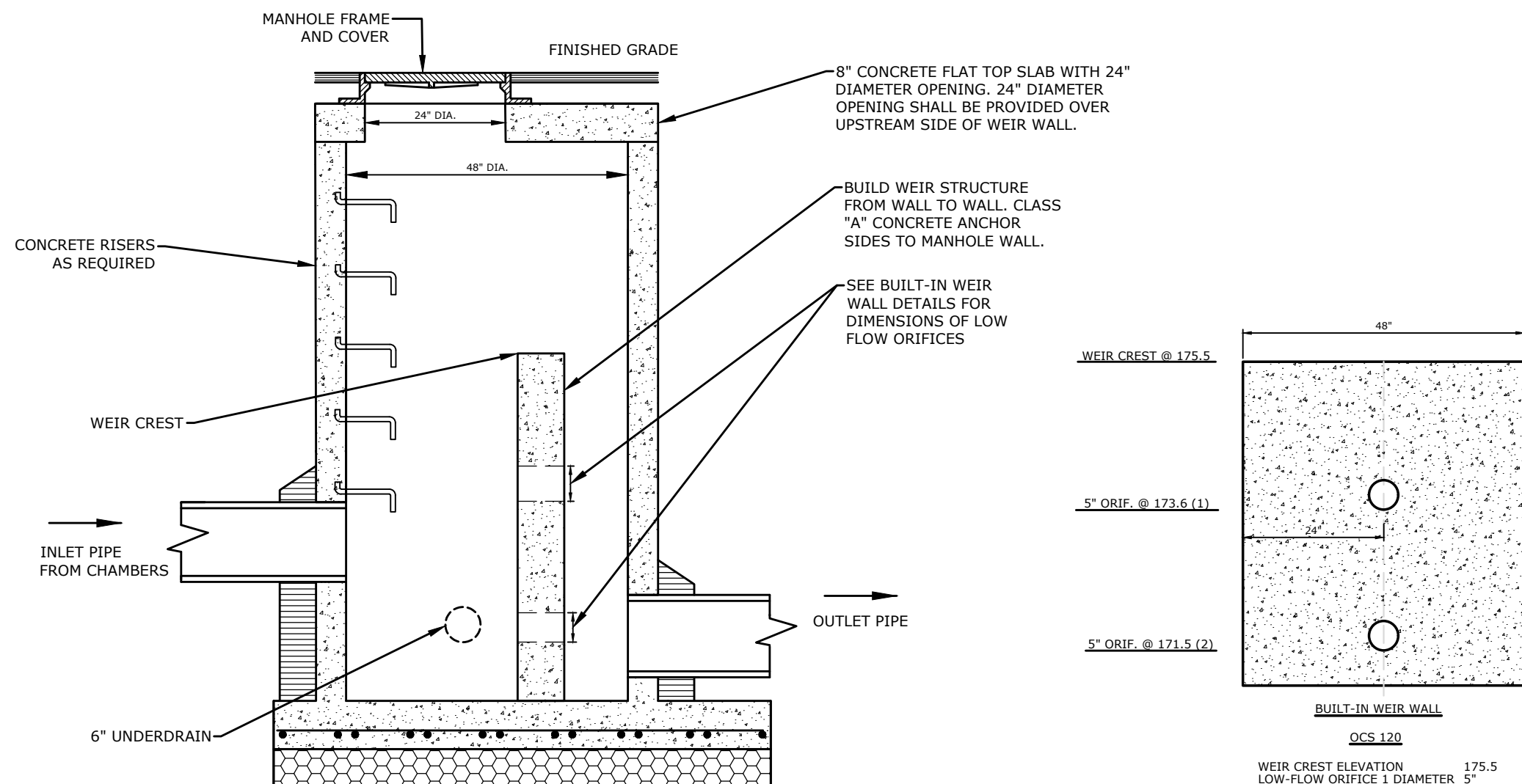
PLEASE NOTE:

- 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.

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS



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NOTES:
THIS DETAIL REPRESENTS A MODIFICATION OF A STANDARD STORM MANHOLE FOR USE IN CONTROLLING THE DISCHARGE FROM THE DETENTION AREA. SEE THE MANHOLE DETAIL FOR STANDARD DIMENSIONS AND NOTES.

WEIR CREST ELEVATION	175.5
LOW-FLOW ORIFICE 1 DIAMETER	12"
LOW-FLOW ORIFICE 2 DIAMETER	12"
LOW-FLOW ORIFICE 3 DIAMETER	12"
INLET PIPE DIAMETER	12"
OUTLET PIPE DIAMETER	12"
OUTLET PIPE INVERT	171.0

UNDERGROUND DETENTION OUTLET CONTROL STRUCTURE (OCS 120)

N.T.S.



DESCRIPTION	DATE	BY
PLANNING AND ZONING	11/05/20	AWG
TOWN COMMENTS	12/10/20	MCB
WETLANDS HEARING RESPONSE	2/17/21	AWG
FINAL SUBMITTED PLAN - COA	06/22/21	AWG

SITE DETAILS
SLATE UPPER SCHOOL
5100 RIDGE ROAD
NORTH HAVEN, CONNECTICUT

AWG	AWG	TD
DESIGNED	DRAWN	CHECKED

AS NOTED

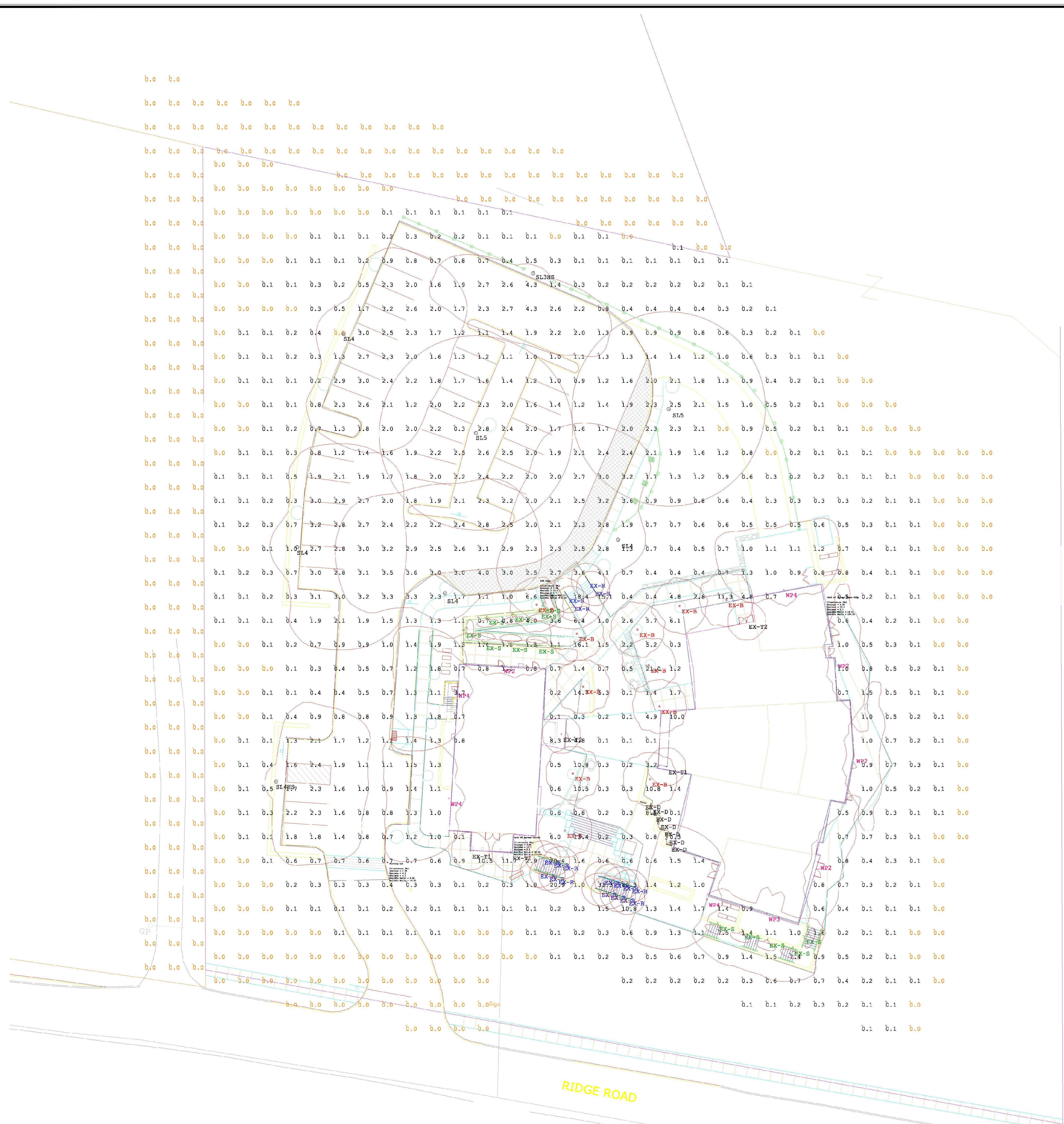
DATE: OCTOBER 27, 2020

PROJECT NO.: 6156-03

SHEET NO.: 15 OF 15

SD-5

11/15/2020 10:00 AM
 L:\Projects\2020\Upper Slate School\Drawings\PHOTOMETRIC_CALCULATION.dwg
 User: jw



Luminaire Schedule				
Qty	Tag	Lum. Watts	LLF	Description
1	SL3HS	85.6	0.900	AAL FH2-72L-385-3K7-3-CL-HS Mounted @ 15FT AFG
4	SL4	85.6	0.900	AAL FH2-72L-385-3K7-4W-CL Mounted @ 15FT AFG
1	SL4HS	85.6	0.900	AAL FH2-72L-385-3K7-4W-CL-HS Mounted @ 15FT AFG
2	SL5	85.6	0.900	AAL FH2-72L-385-3K7-5W-CL Mounted @ 15FT AFG
4	WP3	13.9	0.900	Hubbell QSP1-12L15-3K7-2 Mounted @ 15FT AFG
1	WP3	26.1	0.900	Hubbell QSP1-12L30-3K7-3 Mounted @ 15FT AFG
4	WP4	26.1	0.900	Hubbell QSP1-12L30-3K7-4 Mounted @ 15FT AFG
11	EX-B	38	0.900	Arcluce S-QR-0-2-0-3-x-s TOF @ 39 3/8IN AFG
7	EX-D	11.25	0.900	Beulux Flexbeam FB-D30-IP67-CT30
18	EX-R	31.18	0.900	Cole Lightrail LR5-RIA-20-LED Mounted at 30IN AFG
13	EX-S	6	0.900	MP L49-6W30SW30-MA Mounted @ 18IN AFG
2	EX-T2	10	0.900	Eclipse Troy TY-20-CM-LED10-3K-DN-120-BZ Mounted @ 8FT AFG
3	EX-T1	20	0.900	Eclipse Troy TY-20-NM-LED20-3K-UP-DN-120-BZ Mounted @ 8FT AFG

Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Beyond Property Line	Fc	0.00	0.1	0.0	N.A.	N.A.
Site Calc	Fc	1.33	80.3	0.0	N.A.	N.A.
ADA Ramp	Fc	3.34	16.1	0.7	4.77	23.00
Parking Lot	Fc	1.98	4.3	0.3	6.60	14.33
Path of Egress Church	Fc	3.91	11.7	0.1	39.10	117.00
Path of Egress Upper Bldg	Fc	1.91	18.4	0.1	19.10	184.00

Project: Upper Slate School	
Contact: Liza Tuttle Specification Sales (860) 751-4388 ltuttle@illuminatene.com	Detail: Photometric Calculation Date: 5-13-21 Revision: --- Scale: N.T.S. Drawn By: ---
illuminatene	
44 Sixth Road Woburn, MA 01801 (781) 935-8500	
333 Pleasant Valley Road South Windsor, CT 06074 (860) 282-0597	
L-1	
Sheet 1 of 1	



DATE	BY	DESCRIPTION
08/09/21	LM	PLANNING AND ZONING

PHOTOMETRIC CALCULATION
SLATE UPPER SCHOOL
 5100 RIDGE ROAD
 NORTH HAVEN, CONNECTICUT

JW	JW	TD
DESIGNED	DRAWN	CHECKED
SCALE: NTS		
DATE: OCTOBER 27, 2020		
PROJECT NO: 6156-03		
SHEET NO: 16 OF 15		
L-1		