

PERMIT SITE PLAN

342
WEST
BOYLSTON

342 West Boylston Street
Worcester, Massachusetts

342 WEST BOYLSTON STREET

WORCESTER, MASSACHUSETTS 01606

FOR

342 WEST BOYLSTON LLC



VICINITY MAP

SCALE: 1"=500'

OWNER:

342 WEST BOYLSTON LLC
40 JACKSON STREET, SUITE 100
WORCESTER, MASSACHUSETTS 01608

APPLICANT:

342 WEST BOYLSTON LLC
40 JACKSON STREET, SUITE 100
WORCESTER, MASSACHUSETTS 01608

GENERAL NOTES

- LOCATIONS OF EXISTING UNDERGROUND UTILITIES/OBSTRUCTIONS/SYSTEMS SHOWN HEREON ARE APPROXIMATE ONLY. ALL UTILITIES/OBSTRUCTIONS/SYSTEMS MAY NOT BE SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES/OBSTRUCTIONS/SYSTEMS, WHETHER OR NOT SHOWN HEREON.
- UNLESS OTHERWISE SHOWN, ALL NEW UTILITIES SHALL BE UNDERGROUND.
- CONTRACTOR SHALL FURNISH CONSTRUCTION LAYOUT OF BUILDING AND SITE IMPROVEMENTS. THIS WORK SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR.
- SAFETY MEASURES, CONSTRUCTION METHODS AND CONTROL OF WORK SHALL BE RESPONSIBILITY OF CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION THAT ARE NOT DESIGNATED FOR DEMOLITION AND / OR REMOVAL HEREON. DAMAGED IMPROVEMENTS SHALL BE REPAIRED TO THE SATISFACTION OF THEIR RESPECTIVE OWNERS.
- THIS PLAN IS NOT INTENDED TO SHOW AN ENGINEERED BUILDING FOUNDATION DESIGN, WHICH WOULD INCLUDE DETAILS AND FINAL ELEVATIONS OF FOOTINGS, WALLS AND SUBSURFACE DRAINAGE TO PREVENT INTERIOR FLOODING. SEE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS.
- ANY INTENDED REVISION OF THE HORIZONTAL AND/OR VERTICAL LOCATION OF IMPROVEMENTS TO BE CONSTRUCTED AS SHOWN HEREON SHALL BE REVIEWED AND APPROVED BY ENGINEER PRIOR TO IMPLEMENTATION.
- RIM ELEVATIONS SHOWN FOR NEW STRUCTURES ARE APPROXIMATE AND ARE PROVIDED TO ASSIST CONTRACTOR WITH MATERIAL TAKEOFFS. FINISH RIM ELEVATIONS SHOULD MATCH PAVEMENT, GRADING OR LANDSCAPING, UNLESS SPECIFICALLY INDICATED OTHERWISE.
- WHERE EXISTING UTILITY LINES/STRUCTURES ARE TO BE CUT/BROKEN DOWN/ ABANDONED, LINES/STRUCTURES SHALL BE PLUGGED/CAPPED/FILLED IN ACCORDANCE WITH OWNER REQUIREMENTS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND RELATIVE ELEVATION OF BENCH MARKS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER.
- PROPOSED BUILDING FOUNDATION CONFIGURATION AND LOCATION ON THE LOT AS SHOWN ARE CONCEPTUAL AND SHALL BE VERIFIED AS TO CONFORMANCE WITH FINAL ARCHITECTURAL PLANS AND ZONING ORDINANCES PRIOR TO CONSTRUCTION.
- SILT FENCE SHOWN HEREON SHALL BE INSTALLED BEFORE EARTH DISTURBANCE OCCURS, AND SHALL SERVE AS THE LIMIT OF WORK.

REGULATORY NOTES

- CONTRACTOR SHALL CONTACT DIG-SAFE FOR UNDERGROUND UTILITY MARKING AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
- CONTRACTOR SHALL MAKE HIMSELF AWARE OF ALL CONSTRUCTION REQUIREMENTS, CONDITIONS, AND LIMITATIONS IMPOSED BY PERMITS AND APPROVALS ISSUED BY REGULATORY AUTHORITIES PRIOR TO COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL COORDINATE AND OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY REGULATORY AUTHORITIES.
- ALL WORK OUTSIDE OF BUILDING THAT IS LESS THAN 10 FEET FROM THE INSIDE FACE OF BUILDING FOUNDATIONS SHALL CONFORM WITH THE UNIFORM STATE PLUMBING CODE OF MASSACHUSETTS, 248 CMR 2.00.
- ALL WORK WITHIN THE RIGHT OF WAY OF THE CITY OF WORCESTER SHALL CONFORM TO THE CITY OF WORCESTER'S STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS PUBLISHED BY THE CITY OF WORCESTER'S DEPARTMENT OF PUBLIC WORKS.

PROJECT TEAM

CIVIL ENGINEERS
LAND SURVEYORS:

HANCOCK ASSOCIATES
34 CHELMSFORD STREET
CHELMSFORD, MASSACHUSETTS 01824

ARCHITECTS:

DIXON SALO ARCHITECTS, INC.
300 MAIN STREET, FLOOR 1
WORCESTER, MASSACHUSETTS 01608

ASSESSORS

PARCEL ID: MAP 12 007 00009

RECORD OWNER

342 WEST BOYLSTON LLC
40 JACKSON STREET SUITE 100
WORCESTER, MA

ZONING

BUSINESS LIMITED - BL-1.0
COMMERCIAL CORRIDORS OVERLAY DISTRICT
-ELSEWHERE (CCOD-E)

DIMENSIONAL REQUIREMENTS

	REQUIRED
MIN. LOT AREA	5,000 SF
MIN. FRONT YARD	10FT
MAX. FRONT YARD	N/A
MIN. SIDE YARD	10FT
MIN. REAR YARD	20FT
MAX. HEIGHT ¹	40FT
MAX. STORIES	3+
MAX. FAR	1.0
MIN. RECREATION AREA ²	2,010 SF

- 3+ INDICATES 3 STORIES PLUS ATTIC LEVEL
- "FOR BRAND NEW RESIDENTIAL USES, AT LEAST 10% OF THE LOT AREA MUST BE SET ASIDE FOR RECREATIONAL PURPOSES."

OVERLAY DISTRICT - CCOD-E

	REQUIRED	PROPOSED
MIN. FRONT YARD ¹	5FT	16FT
MAX. FRONT YARD	15FT	19FT
MIN. SIDE YARD (BDG)	10FT	12FT
MIN. SIDE YARD (WALL)	5FT	5FT
MIN. REAR YARD (BDG)	20FT	51FT
MIN. REAR YARD (WALL)	5FT	9FT
MAX. HEIGHT	50FT	44FT (PRINCIPAL ROOF) / 54FT (ELEVATOR ENCLOSURE)
MAX. STORIES ²	3+	4
MAX. FAR	2.0	0.8±
MIN. RECREATION AREA ³	2,010 SF	2,265±SF

- MINIMUM FRONT YARD SETBACK IS 5 FEET FOR USES WITH GROUND FLOOR RESIDENCES.
- 3+ INDICATES 3 STORIES PLUS ATTIC LEVEL
- "FOR BRAND NEW RESIDENTIAL USES, AT LEAST 10% OF THE LOT AREA MUST BE SET ASIDE FOR RECREATIONAL PURPOSES."

PARKING REQUIREMENTS

MULTI-FAMILY RESIDENTIAL USE

PROPOSED DWELLING UNITS = 24

MIN. PARKING: (CCOD-ELSEWHERE: TABLE 9.1)
1 SPACE PER DU = 24 SPACES
1 GUEST SPACE PER 10 DU
MIN. TOTAL = 1/DU + 1 GUEST/10 SPACES = 27 SPACES
PROPOSED = 6 SPACES - STANDARD
= 9 SPACES - COMPACT
= 1 SPACES - ACCESSIBLE
= 16 SPACES - TOTAL

PARKING BUFFER = 3 FEET
LANDSCAPING BUFFERS FOR PARKING AREAS SHALL BE A MINIMUM OF THREE (3) FEET IN WIDTH WITH MINIMUM FIVE (5) FEET BY FIVE (5) FEET TREE PLANTING AREAS FOR REQUIRED TREE PLANTINGS. (ARTICLE IX, §6(F))

SHEET INDEX

- SHEET 1..... TITLE SHEET
- SHEET 2..... EXISTING CONDITION PLAN
- SHEET 3..... EROSION AND SEDIMENTATION CONTROL PLAN
- SHEET 4..... LAYOUT & MATERIALS PLAN
- SHEET 5..... GRADING, DRAINAGE, AND UTILITIES PLAN
- SHEET 6..... LANDSCAPE AND LIGHTING PLAN
- SHEET 7..... SWEEP PATH ANALYSIS
- SHEET 8..... SITEWORK DETAILS
- SHEET 9..... SITEWORK DETAILS

PREPARED FOR:

Steven
Rothschild

40 Jackson Street, Suite 100
Worcester, Massachusetts 01608

**HANCOCK
ASSOCIATES**

Civil Engineers

Land Surveyors

Environmental
Consultants

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WWW.HANCOCKASSOCIATES.COM



NO.	BY	APP	DATE	ISSUE/REVISION DESCRIPTION
2	MJS	BGG	2/11/26	DEPARTMENT COMMENTS
1	MJS	BGG	2/4/26	STORMWATER DESIGN REVISIONS

DATE: 01/15/26 DESIGN BY: MJS
SCALE: AS SHOWN DRAWN BY: MJS
APPVD BY: BGG CHECK BY: JP

**TITLE
SHEET**

DWG: 27639-SP2.dwg
LAYOUT: 1-TS01
SHEET: 1 OF 9
JOB NO.: 27639

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X:\27639-ROTHSCHILD-WORCESTER\DWG\27639-SP2.DWG

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EROSION AND
SEDIMENTATION
CONTROL PLAN

DWG: 27639-SP2.dwg
LAYOUT: 3-EC01
SHEET: 3 OF 9
JOB NO.: 27639

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EROSION CONTROL NOTES:

BEST MANAGEMENT PRACTICES (BMP) FOR EROSION AND SEDIMENTATION CONTROL ARE STAKED SILT FENCE, HYDRO SEEDING, AND PHASED DEVELOPMENT. MANY STORMWATER BMP TECHNOLOGIES (E.G., INFILTRATION TECHNOLOGIES) ARE NOT DESIGNED TO HANDLE THE HIGH CONCENTRATIONS OF SEDIMENTS TYPICALLY FOUND IN CONSTRUCTION RUNOFF AND MUST BE PROTECTED FROM CONSTRUCTION-RELATED SEDIMENT LOADINGS. CONSTRUCTION BMP'S MUST BE MAINTAINED.

IN DEVELOPING THE PROPOSED PROJECT CERTAIN MEASURES WILL BE IMPLEMENTED TO MINIMIZE IMPACTS EROSION AND SEDIMENTATION COULD HAVE ON SURROUNDING AREAS. THIS SECTION ADDRESSES ITEMS THAT INVOLVE PROPER CONSTRUCTION TECHNIQUES, CLOSE SURVEILLANCE OF WORKMANSHIP, AND IMMEDIATE RESPONSE TO EMERGENCY SITUATIONS. THE DEVELOPER MUST BE PREPARED TO PROVIDE WHATEVER REASONABLE MEASURES ARE NECESSARY TO PROTECT THE ENVIRONMENT DURING CONSTRUCTION AND TO STABILIZE ALL DISTURBED AREAS AS SOON AS CONSTRUCTION ENDS.

ANY PROPOSED SEDIMENTATION CONTROL DEVICES WITHIN THE TOWN'S RIGHT OF WAY MUST BE MAINTAINED, INSPECTED, CLEANED, AND REPLACED AS NECESSARY TO PREVENT POSSIBLE FLOODING ISSUES DURING RAIN EVENTS. ONCE ALL SITE WORK IS DONE AND APPROVAL IS GRANTED BY THE DPW, ANY SEDIMENTATION CONTROL DEVICES MUST BE REMOVED BY THE APPLICANT AS SOON AS POSSIBLE.

PRE-CONSTRUCTION

1. PRIOR TO CLEARING, EXCAVATION, CONSTRUCTION, OR ANY LAND DISTURBING ACTIVITY REQUIRING A PERMIT, THE APPLICANT, THE APPLICANT'S TECHNICAL REPRESENTATIVE, THE GENERAL CONTRACTOR, PERTINENT SUBCONTRACTORS, AND ANY PERSON WITH AUTHORITY TO MAKE CHANGES TO THE PROJECT SHALL MEET WITH THE TOWN'S DESIGNATED AGENT AND TO REVIEW THE PERMITTED PLANS AND PROPOSED IMPLEMENTATION.
2. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY EARTH MOVING ACTIVITIES.
3. THE CONTRACTOR SHALL KEEP ON SITE, AT ALL TIMES, ADDITIONAL SILTATION FENCING, FILTER FABRIC, STRAW WATTLES, AND CRUSHED STONE FOR INSTALLATION AS DIRECTED BY THE TOWN TO MITIGATE ANY EMERGENCY CONDITIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL ON SITE AND SHALL UTILIZE EROSION CONTROL MEASURES WHERE NEEDED, REGARDLESS OF WHETHER THE MEASURES ARE SPECIFIED ON THE PLAN OR IN THE DECISIONS.

PRELIMINARY SITE WORK

1. MATERIALS SUCH AS GRAVEL TO BE REMOVED SHOULD BE STOCKPILED, SEPARATING THE TOPSOIL FOR FUTURE USE ON THE SITE. EROSION CONTROL SHALL BE UTILIZED ALONG THE DOWN SLOPE SIDE OF THE PILES IF THE PILES ARE TO REMAIN FOR MORE THAN THREE WEEKS.
2. IF INTENSE RAINFALL IS ANTICIPATED, THE INSTALLATION OF SUPPLEMENTAL STRAW BALE DIKES, SILT FENCES, OR ARMORED DIKES SHALL BE CONSIDERED.

SITE INSPECTIONS, DURING/POST CONSTRUCTION

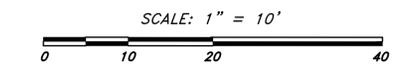
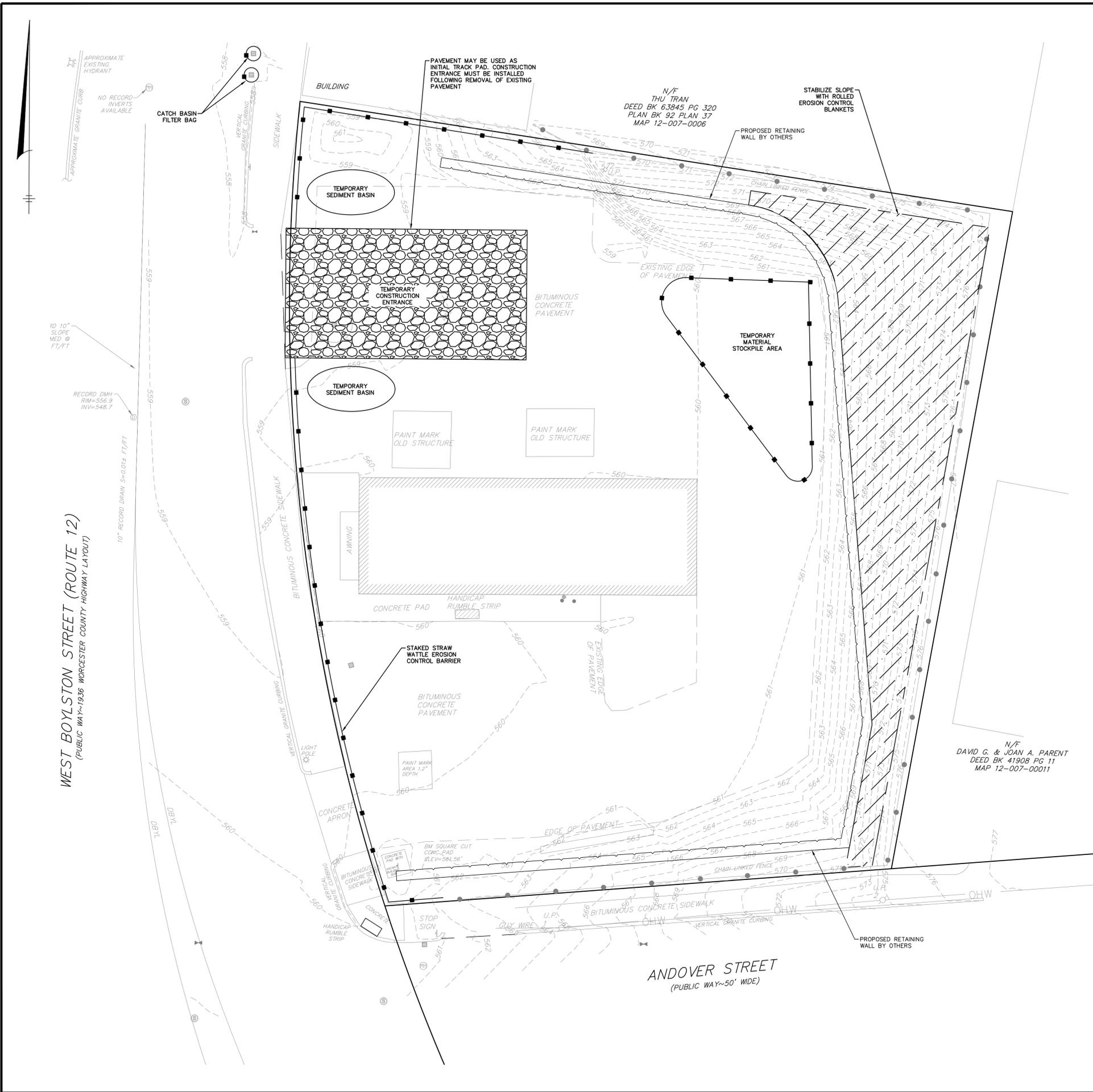
1. DURING CONSTRUCTION, THE PERMITEE OR HIS/HER AGENT SHALL CONDUCT AND DOCUMENT INSPECTIONS OF ALL CONTROL MEASURES NO LESS THAN WEEKLY OR AS SPECIFIED IN THE PERMIT, AND PRIOR TO AND FOLLOWING ANTICIPATED STORM EVENTS. THE PURPOSE OF SUCH INSPECTIONS WILL BE TO DETERMINE THE OVERALL EFFECTIVENESS OF THE EROSION AND SEDIMENTATION CONTROL PLAN, AND THE NEED FOR MAINTENANCE OR ADDITIONAL CONTROL MEASURES.
2. THE ENGINEER-OF-RECORD SHALL WITNESS THE INSTALLATION OF ANY SUBSURFACE INFILTRATION SYSTEM. IF SUBSURFACE SOIL CONDITIONS DIFFER FROM THAT SHOWN ON THE PLAN, THE DESIGN SHALL BE MODIFIED AND RESUBMITTED TO THE TOWN FOR APPROVAL PRIOR TO CONTINUING INSTALLATION.
3. UPON COMPLETION OF ALL SITE WORK, THE CONTRACTOR SHALL INSPECT ALL ON-SITE AND OFF-SITE CATCH BASINS (THAT RECEIVED CATCH BASIN PROTECTION) AND DRAINAGE MANHOLES AND REMOVE ALL SEDIMENT AND DEBRIS THAT HAS ACCUMULATED DURING THE COURSE OF CONSTRUCTION.

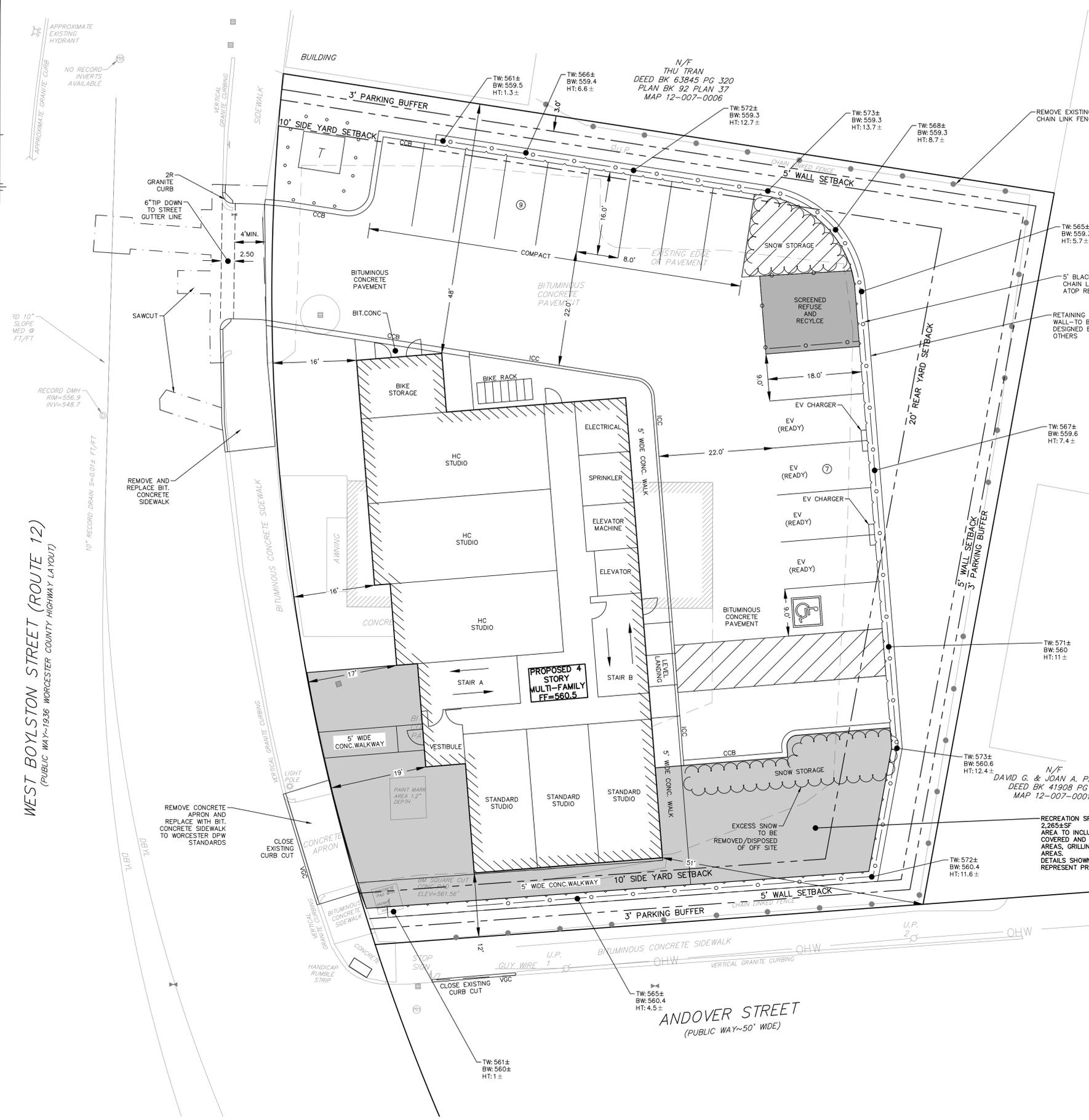
LANDSCAPING/SEEDING

1. LANDSCAPING/SEEDING SHALL OCCUR AS SOON AS POSSIBLE AND NO LONGER THAN 30 DAYS UPON COMPLETION OF WORK IN A DISTURBED AREA TO PROVIDE PERMANENT STABILIZATION OF DISTURBED SURFACES.
2. IF THE SEASON OR ADVERSE WEATHER CONDITIONS DO NOT ALLOW THE ESTABLISHMENT OF VEGETATION, TEMPORARY MULCHING WITH STRAW, WOOD CHIPS WEIGHED WITH SNOW FENCE OR BRANCHES, OR OTHER METHODS SHALL BE PROVIDED.
3. A MINIMUM OF 4 INCHES OF TOPSOIL SHALL BE PLACED AND ITS SURFACE SMOOTHED TO THE SPECIFIED GRADES.
4. HERBICIDES ARE NOT TO BE USED ON SITE.
5. HYDRO SEEDING IS ENCOURAGED FOR STEEP SLOPES. APPLICATION RATES ON SLOPES GREATER THAN 3:1 SHALL HAVE A MINIMUM SEEDING RATE OF 5-LBS/1000 SF. A LATEX OR FIBER TACKIFIER SHALL BE USED ON THESE SLOPES AT A MINIMUM RATE OF 50 LBS. OF TACKIFIER PER 500 GALLONS OF WATER USED.

CONSTRUCTION WASTE NOTES:

- 1) ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURE METAL DUMPSTER.
- 2) ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF TWICE PER WEEK OR AS FREQUENT AS SITE CONDITIONS REQUIRE. NO CONSTRUCTION MATERIALS WILL BE BURIED ON-SITE.
- 3) ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL.
- 4) ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED.
- 5) GOOD HOUSEKEEPING AND SPILL CONTROL PRACTICES WILL BE FOLLOWED DURING CONSTRUCTION TO MINIMIZE STORM WATER CONTAMINATION FROM PETROLEUM PRODUCTS, PAINTS, AND CONCRETE.
- 6) ALL VEHICLES ON SITE WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE.
- 7) PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH, ARE CLEARLY LABELED.
- 8) SPILL KITS WILL BE INCLUDED WITH ALL FUELING SOURCES AND MAINTENANCE ACTIVITIES.
- 9) ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
- 10) ALL PAINT CONTAINERS AND CURING COMPOUNDS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWERS, BUT WILL BE PROPERLY DISPOSED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- 11) MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE TEMPORARY MATERIAL STORAGE TRAILER ON-SITE. EQUIPMENT WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAW DUST, AND PLASTIC AND METAL TRASH CONTAINERS.
- 12) ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. SPILLS LARGE ENOUGH TO REACH THE STORM SEWERS WILL BE REPORTED TO THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION NORTHEAST REGIONAL OFFICE AT 1-888-304-1133.
- 13) CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.
- 14) WHEN TESTING/CLEANING OF WATER SUPPLY LINES, THE DISCHARGE FROM THE TESTED PIPE WILL BE COLLECTED AND CONVEYED TO A COMPLETED STORM WATER PIPE SYSTEM FOR ULTIMATE DISCHARGE INTO THE SEDIMENTATION BASIN.





DIMENSIONAL REQUIREMENTS

UNDERLYING DISTRICT - BL-1.0

REQUIRED	PROPOSED
MIN. LOT AREA	5,000 SF
MIN. FRONT YARD	10FT
MAX. FRONT YARD	N/A
MIN. SIDE YARD	10FT
MIN. REAR YARD	20FT
MAX. HEIGHT ¹	40FT
MAX. STORIES ²	3+
MAX. FAR	1.0
MIN. RECREATION AREA ³	2,010 SF

- 3+ INDICATES 3 STORIES PLUS ATTIC LEVEL
- *FOR BRAND NEW RESIDENTIAL USES, AT LEAST 10% OF THE LOT AREA MUST BE SET ASIDE FOR RECREATIONAL PURPOSES.*

OVERLAY DISTRICT - CCOD-E

REQUIRED	PROPOSED
MIN. FRONT YARD ¹	5FT
MAX. FRONT YARD	15FT
MIN. SIDE YARD (BDG)	10FT
MIN. SIDE YARD (WALL)	5FT
MIN. REAR YARD (BDG)	20FT
MIN. REAR YARD (WALL)	5FT
MAX. HEIGHT	50FT
MAX. STORIES ²	3+
MAX. FAR	2.0
MIN. RECREATION AREA ³	2,265±SF

- MINIMUM FRONT YARD SETBACK IS 5 FEET FOR USES WITH GROUND FLOOR RESIDENCES.
- 3+ INDICATES 3 STORIES PLUS ATTIC LEVEL
- *FOR BRAND NEW RESIDENTIAL USES, AT LEAST 10% OF THE LOT AREA MUST BE SET ASIDE FOR RECREATIONAL PURPOSES.*

PARKING REQUIREMENTS

MULTI-FAMILY RESIDENTIAL USE

PROPOSED DWELLING UNITS = 24

MIN. PARKING: (CCOD-ELSEWHERE: TABLE 9.1)
 1 SPACE PER DU = 24 SPACES
 1 GUEST SPACE PER 10 DU
 MIN. TOTAL = 1/DU + 1 GUEST/10 SPACES = 27 SPACES
 PROPOSED = 6 SPACES - STANDARD
 = 9 SPACES - COMPACT
 = 1 SPACES - ACCESSIBLE
 = 16 SPACES - TOTAL

*VARIANCE APPROVED BY ZBA ON JANUARY 27, 2025 (ZB-2025-06)

PARKING BUFFER = 3 FEET
 LANDSCAPING BUFFERS FOR PARKING AREAS SHALL BE A MINIMUM OF THREE (3) FEET IN WIDTH WITH MINIMUM FIVE (5) FEET BY FIVE (5) FEET TREE PLANTING AREAS FOR REQUIRED TREE PLANTINGS. (ARTICLE IX, §6(F))

SNOW STORAGE NOTE

IN THE EVENT THAT SNOW STORAGE CAPACITY IS REACHED, EXCESS SNOW SHALL BE TRANSPORTED OFFSITE AND PROPERLY DISPOSED OF.

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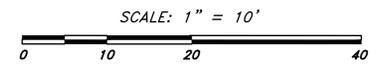
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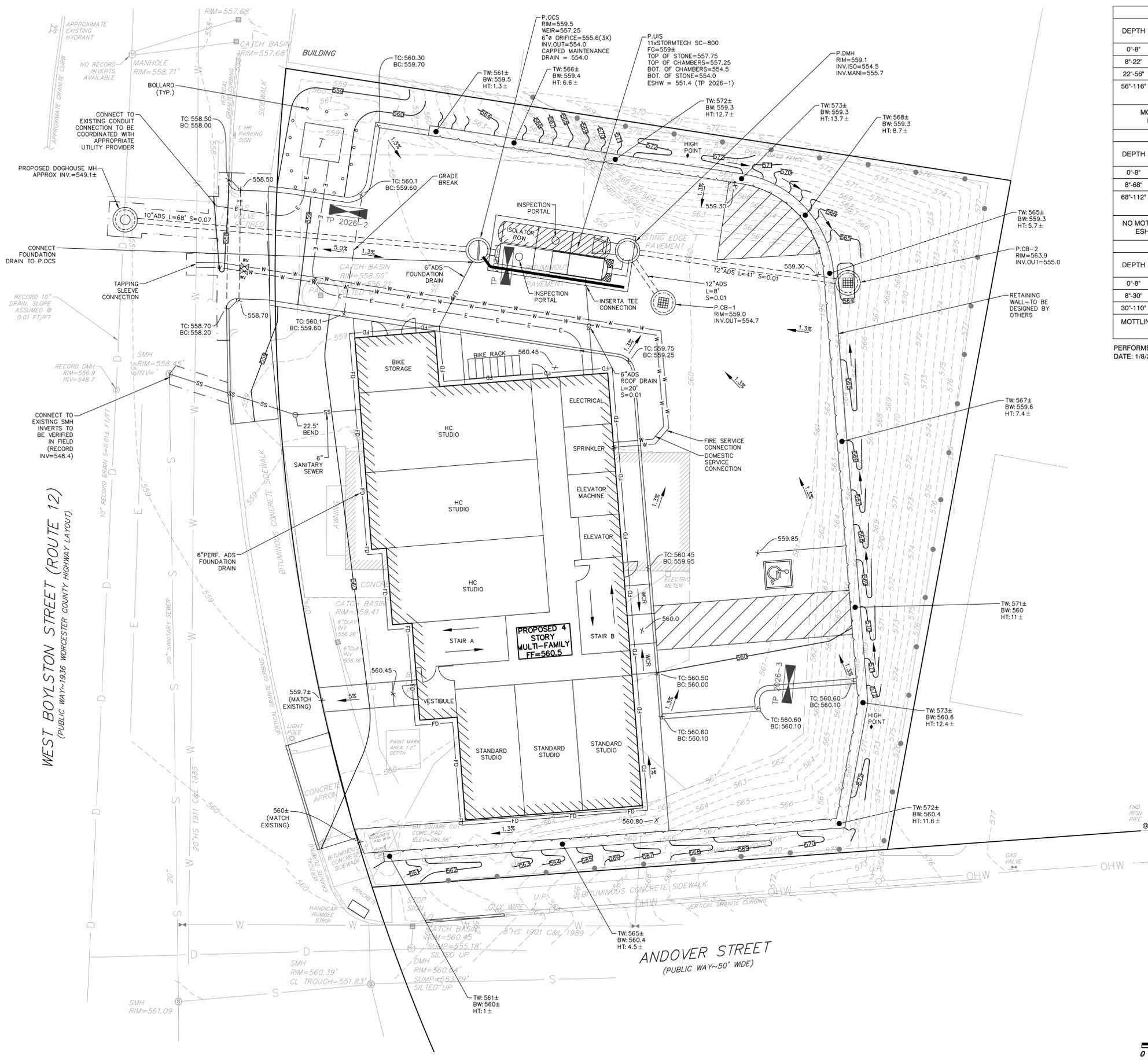
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LAYOUT AND MATERIALS PLAN

DWG: 27639-SP2.dwg
LAYOUT: 4-LM01A
SHEET: 4 OF 9
JOB NO.: 27639

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TEST PIT 2026-1 (EL. 559.2±)			
DEPTH	LAYER	TEXTURAL CLASSIFICATION	REDOXIMORPHIC FEATURES
0'-8"	PAVE	--	NONE
8'-22"	FILL	--	NONE
22'-56"	C1	LOAMY SAND	NONE
56'-116"	C2d	FINE SANDY LOAM W/ GRAVEL	94"

MOTTLING @ 94", STANDING @ 116", NO REFUSAL
ESHWT=94" (EL. 551.4±) BASED ON MOTTLING

TEST PIT 2026-2 (EL. 558.6±)			
DEPTH	LAYER	TEXTURAL CLASSIFICATION	REDOXIMORPHIC FEATURES
0'-8"	PAVE	--	NONE
8'-68"	FILL	--	NONE
68'-112"	Cd	FSL W/ STONES & BOULDERS	NONE

NO MOTTLING, NO GROUNDWATER OBSERVED, NO REFUSAL
ESHWT=112" (EL. 549.3±) BASED ON BOTTOM OF PIT

TEST PIT 2026-3 (EL. 561.5±)			
DEPTH	LAYER	TEXTURAL CLASSIFICATION	REDOXIMORPHIC FEATURES
0'-8"	PAVE	--	NONE
8'-30"	FILL	--	NONE
30'-110"	Cd	FSL W/ GRAVEL	NONE

MOTTLING @ 60", SEEPING AT 22", STANDING AT 110", NO REF.
ESHWT=22" (EL. 559.7±) BASED SEEPING

PERFORMED BY: DANIEL ROMERO (SE #14149)
DATE: 1/8/26

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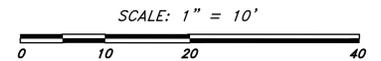
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GRADING AND DRAINAGE PLAN



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LAYOUT: 5-GDU01
SHEET: 5 OF 9
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X:\121639-ROTHSCHILD-WORCESTER\ENG\DWG\121639-SP2.DWG

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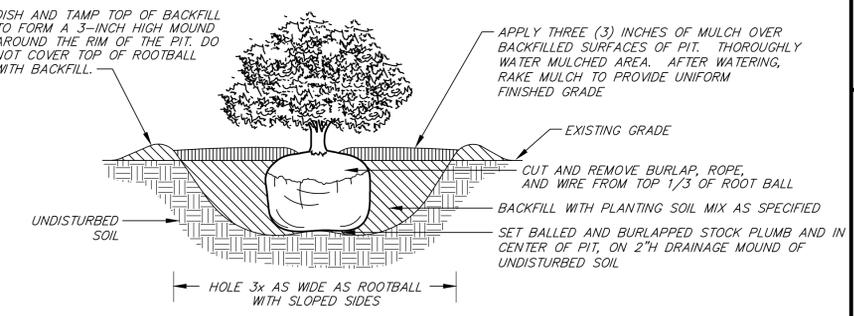
WEST BOYLSTON STREET (ROUTE 12)
(PUBLIC WAY ~ 19.36 WORCESTER COUNTY HIGHWAY LAYOUT)

TREE PLANTING SCHEDULE

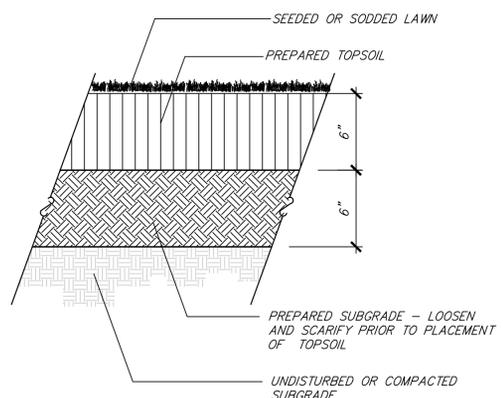
ID	LATIN NAME	COMMON NAME
A	JUNIPERUS VIRGINIANA	'TAYLOR' JUNIPER
B	THUJA	'GREEN GIANT' OR 'EMERALD GREEN' ARBORVITAE
C	PINUS STROBUS	FASTIGIATE WHITE PINE
D	CHAMAECYPARIS THYOIDES	ATLANTIC WHITE CEDAR
E	QUERCUS PALUSTRIS	'GREEN PILLAR' PIN OAK
F	LIQUIDABAR STYRACIFLUA	'SLENDER SILHOUETTE' SWEETGUM
G	GINKGO BILOBA	'PRINCETON SENTRY' GINKGO
H	CARPINUS BETULUS	'FASTIGIATA' EUROPEAN HORNBEEAM
I	FAGUS SYLVATICA	'DAWYCK' EUROPEAN BEECH

NO PLANTINGS ABOVE 3' IN HEIGHT WITHIN SIGHT TRIANGLE

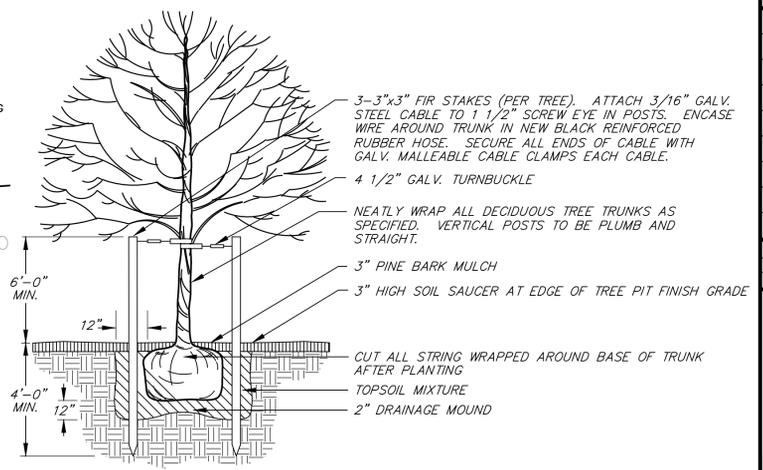
- TYPICAL SHRUB PLANTING DETAIL NOTES:**
- * PLANT SO THAT TOP OF ROOTBALL IS 1-2" ABOVE SURROUNDING GRADE.
 - * MULCH SHALL NOT BE PILED AGAINST THE TRUNK OR STEMS OF SHRUB UNDER ANY CIRCUMSTANCES. MULCH LAYER SHOULD TAPER DOWN TOWARD TRUNK AS INDICATED.
 - * DO NOT USE PLANTING STOCK IF ROOTBALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING PROCESS.
 - * PLACE BACKFILL AROUND ROOTBALL IN LAYERS, TAMPING TO SETTLE BACKFILL AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROX. 1/2 BACKFILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE IS ABSORBED. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF BACKFILL.



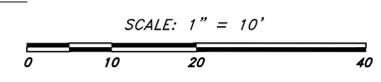
TYPICAL SHRUB PLANTING DETAIL
NOT TO SCALE



LOAM AND SEED
NOT TO SCALE



TREE STAKING DETAIL
NOT TO SCALE



LANDSCAPE
PLAN

DWG: 27639-SP2.dwg
LAYOUT: 6-LL01
SHEET: 6 OF 9
JOB NO.: 27639

P-6

342
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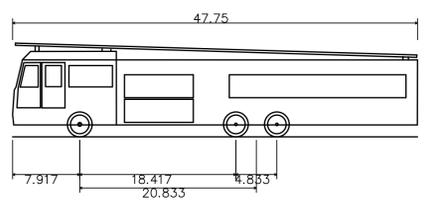
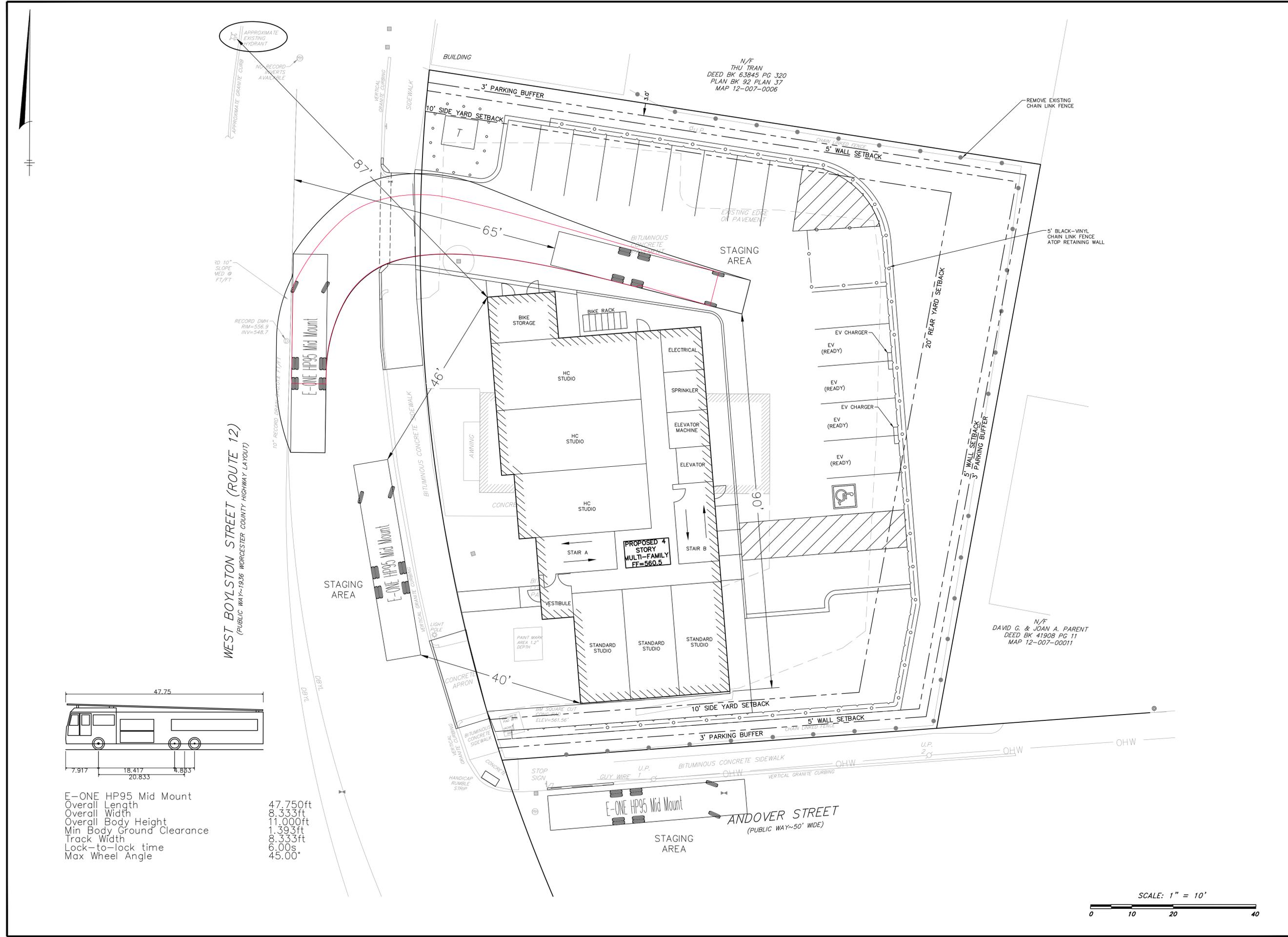


2	MJS	BGG	2/11/26	DEPARTMENT COMMENTS
1	MJS	BGG	2/4/26	STORMWATER DESIGN REVISIONS
NO.	BY	APP	DATE	ISSUE/REVISION DESCRIPTION
DATE:	01/15/26	DESIGN BY:	MJS	
SCALE:	AS SHOWN	DRAWN BY:	MJS	
APPVD BY:	BGG	CHECK BY:	JP	

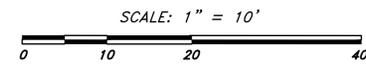
SWEPT
PATH ANALYSIS
PLAN

DWG: 27639-SP2.dwg
LAYOUT: 4-LM01A
SHEET: 4 OF 9
JOB NO.: 27639

P-7



E-ONE HP95 Mid Mount
Overall Length 47.750ft
Overall Width 8.333ft
Overall Body Height 11.000ft
Min Body Ground Clearance 1.393ft
Track Width 8.333ft
Lock-to-lock time 6.00s
Max Wheel Angle 45.00°

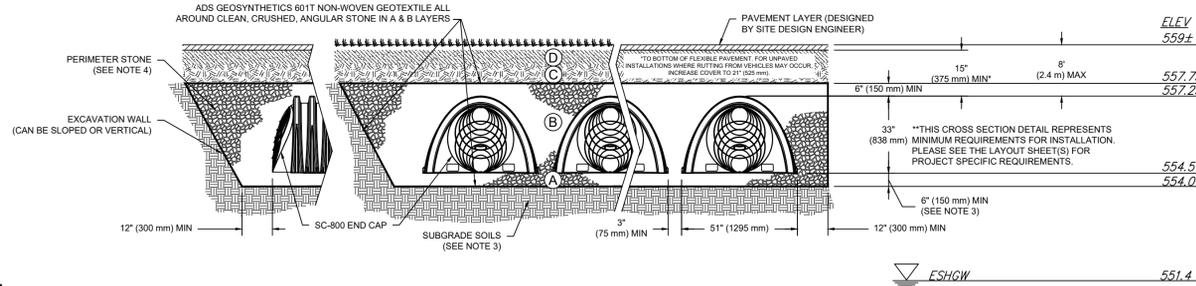


X:\27639-ROTHSCHILD-WORCESTER\SP2.dwg

ACCEPTABLE FILL MATERIALS: STORMTECH SC-800 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	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 15" (375 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145' A-1, A-2.4, A-3 OR AASHTO M43' 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 80, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 90% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN), DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE*	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE*	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

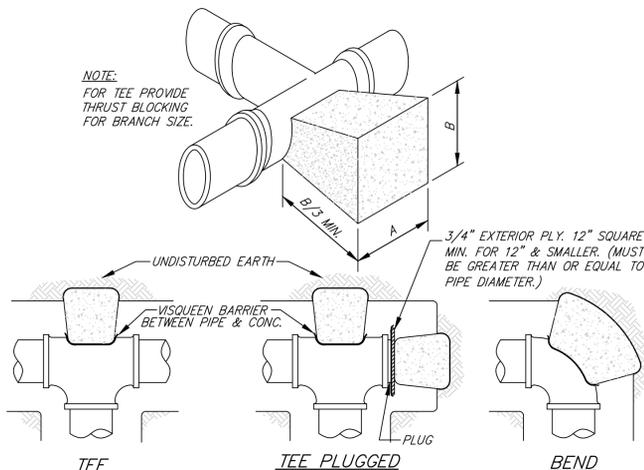
PLEASE NOTE:
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE."
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
 5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-800 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 700 LBS/FT², AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

SC-800 CROSS SECTION DETAIL

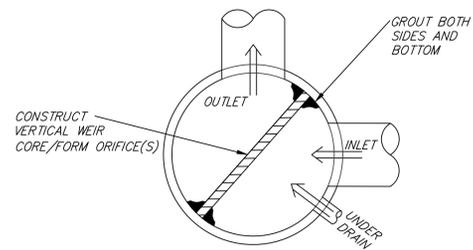


DIMENSION FOR THRUST BLOCKING

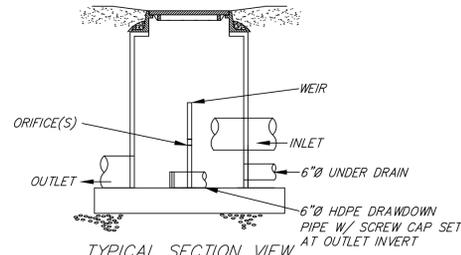
FITTING SIZES	TEES & PLUGS		90° BENDS		45° BENDS & "Y's"		22 1/2° BENDS	
	A	B	A	B	A	B	A	B
4"	1'-6"	1'-6"	1'-6"	1'-9"	1'-3"	0'-6"	1'-0"	0'-6"
6"	2'-0"	1'-0"	2'-0"	2'-0"	1'-3"	1'-6"	1'-0"	1'-5"
8"	2'-0"	1'-6"	2'-3"	2'-3"	1'-6"	1'-8"	1'-0"	1'-3"
10"	2'-6"	2'-3"	2'-9"	2'-10"	2'-3"	1'-10"	1'-3"	2'-0"
12"	3'-0"	2'-9"	3'-6"	3'-3"	2'-6"	2'-4"	2'-0"	1'-6"
14"	3'-5"	3'-0"	4'-0"	3'-8"	3'-6"	2'-4"	2'-0"	2'-3"

- THIS TABLE IS BASED ON 200 P.S.I. MAIN PRESSURE AND 2000 P.S.F. SOIL-BEARING PRESSURE. ADJUST BEARING AREAS IN ACCORDANCE WITH SOIL CONDITIONS AND PRESSURES ENCOUNTERED.
- USE VISQUEEN BARRIER BETWEEN PIPE AND CONCRETE AS SHOWN IN DETAIL ABOVE.
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
- BLOCKING SIZE/FREQUENCY SHALL BE INCREASED IF REQUIRED BY ENGINEER.

THRUST BLOCK SCHEDULE
NOT TO SCALE

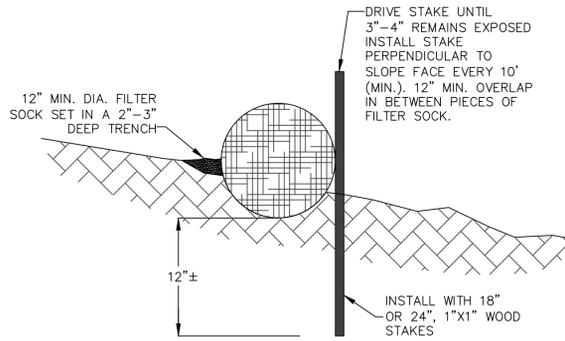


TYPICAL PLAN VIEW
SEE SITE PLAN FOR INDIVIDUAL SYSTEM LAYOUTS & INVERTS



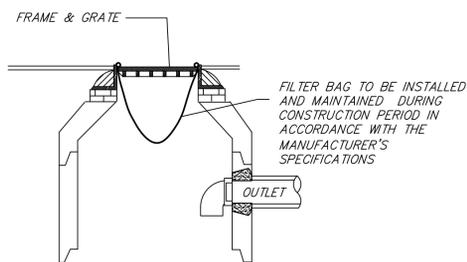
- NOTE: 1. SEE DRAIN MANHOLE DETAIL FOR STANDARD MANHOLE CONSTRUCTION SPECS
 2. SEE PLAN FOR INVERT ELEVATIONS

OUTLET CONTROL STRUCTURE (P.O.C.S)
NOT TO SCALE

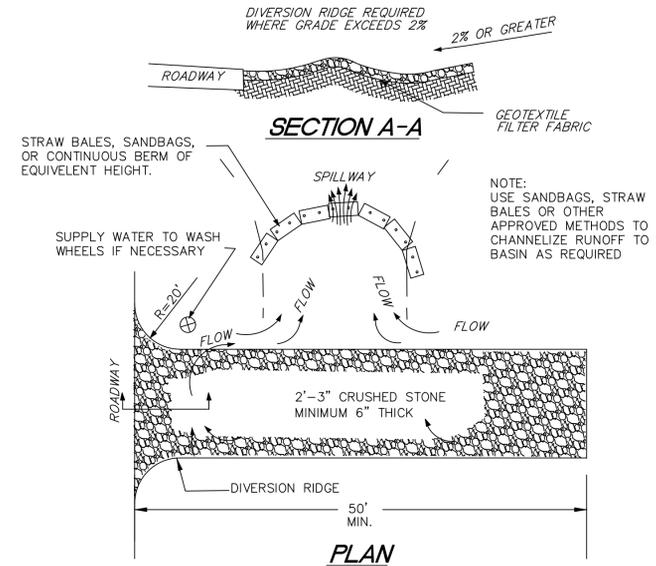


- NOTES:
 1. SOCK SIZE DEPICTED IS FOR GENERAL USE. GREATER SLOPES MAY REQUIRE LARGER SOCK.
 2. COMPOST MATERIAL MAY BE DISPERSED ON SITE AT THE DISCRETION OF THE APPROVING AUTHORITY.
 3. PRIOR TO SETTING THE SOCK REMOVE LOOSE LITTER, BRANCHES AND OTHER MATERIAL THAT MAY PREVENT THE SOCK FROM DIRECT CONTACT WITH SOIL.

WATTLE
NOT TO SCALE

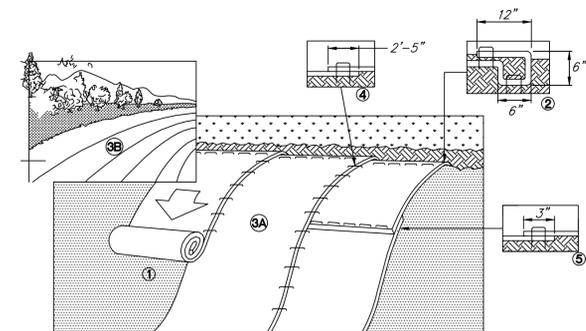


CATCH BASIN FILTER BAG
TYPICAL CROSS SECTION - NOT TO SCALE



- NOTES:
 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
NOT TO SCALE



- INSTALLATION NOTES:
 1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S) IF NEEDED, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER THE SEED AND COMPACTED SOIL. SECURE THE RECP'S OVER THE COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE ENTIRE WIDTH OF THE RECP'S.

- ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" OF OVERLAP DEPENDING ON THE RECP'S TYPE.
- CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS THE ENTIRE RECP'S WIDTH. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

SLOPE STABILIZATION
ISOMETRIC VIEW
NOT TO SCALE

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NO.	BY	APP	DATE	ISSUE/REVISION DESCRIPTION
2	MJS	BGG	2/11/26	DEPARTMENT COMMENTS
1	MJS	BGG	2/4/26	STORMWATER DESIGN REVISIONS

DATE: 01/15/26 DESIGN BY: MJS
 SCALE: AS SHOWN DRAWN BY: MJS
 APPVD BY: BGG CHECK BY: JP

SITework DETAILS

DWG: 27639-SP2.dwg
LAYOUT: 9-DET02
SHEET: 9 OF 9
JOB NO.: 27639

P-9

X:\27639-ROTHSCHILD-WORKSHEET\DWG\27639-SP2.DWG