

SURVEY REFERENCE NOTE:
PROPERTY LINE SURVEY, TOPOGRAPHY, AND EXISTING CONDITIONS WERE PROVIDED BY THE APPLICANT, BC PARTNERS, FROM A PLAN ENTITLED, MINOR SUBDIVISION, SURVEY OF MAP DS LOT 41-153, DATED JUNE 28, 2022 BY MARSH & LONG SURVEYING, INC.

**RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM**

NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

- GENERAL NOTES:**
1. THE CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO START OF CONSTRUCTION AND MAINTAIN ALL MARKINGS FOR THE DURATION OF THE PROJECT.
 2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE CONTRACTOR SHALL NOTIFY "DIG-SAFE" PRIOR TO EXCAVATION AND SHALL NOTIFY LOCAL UTILITY COMPANIES BEFORE COMMENCEMENT OF WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND RELOCATE UTILITIES AS REQUESTED SHOULD THERE BE A CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
 3. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO COORDINATE AND OBTAIN ALL PERMITS PRIOR TO CONSTRUCTION.

- UTILITY NOTES:**
1. ALL WORK WITHIN THE CITY RIGHT-OF-WAY SHALL CONFORM TO THE PERMIT MANUAL OF THE CITY OF WOONSOCKET DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION.
 2. ALL WATER WORK SHALL BE IN CONFORMANCE WITH WOONSOCKET WATER DIVISION SPECIFICATIONS AND THE RULES AND REGULATIONS OF THE WATER WORKS DIVISION OF THE PUBLIC WORKS DEPARTMENT.
 3. WATER SERVICES FROM THE MAIN TO THE CURB STOP ARE INSTALLED BY THE WATER WORKS DIVISION.
 4. THE OWNER/DEVELOPER IS RESPONSIBLE TO COORDINATE WITH RI ENERGY AND TEL/DATA PROVIDER.

- SOIL EROSION AND SEDIMENT CONTROL NOTES**
1. ALL DISTURBED AREAS SHALL BE SEED, PROTECTED, AND MAINTAINED BY THE CONTRACTOR.
 2. EROSION CONTROLS SHALL BE MONITORED AND MAINTAINED BY THE CONTRACTOR ON A WEEKLY BASIS THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL GROUND COVER IS ESTABLISHED.
 3. THE CONTRACTOR SHALL MAINTAIN ALL STOCKPILES THROUGHOUT CONSTRUCTION WITH POLY COVERING OR TEMPORARY SEEDING TO MITIGATE ANY OFF-SITE RUNOFF OR WIND-BLOWN DUST.
 4. CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT EROSION CONTROLS BECOME FILLED IN WITH SEDIMENTS.
 5. THE STONE STABILIZATION PAD AT THE SITE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE, OR ADDITIONAL LENGTH AS CONDITIONS DEMAND.
 6. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
 7. REFERENCE THE "RHODE ISLAND EROSION AND SEDIMENTATION CONTROL HANDBOOK" FOR FURTHER INFORMATION INCLUDING DETAILS AND PROCEDURES.

**RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM**
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 18 2025 FILE # 240210
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Advanced Civil Design, Inc.
ADVANCED CIVIL DESIGN, INC.
88 PEEPTOAD ROAD
SQUATTA, RI 02857
PH: (401) 473-4404

NO.	DATE	REVISION

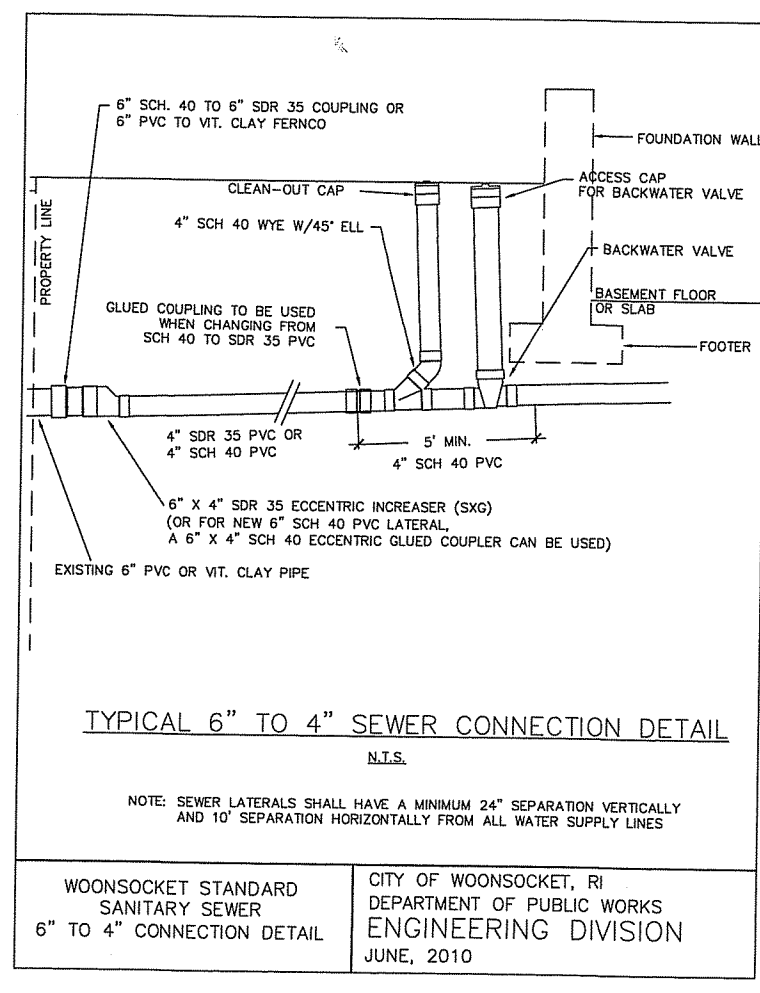
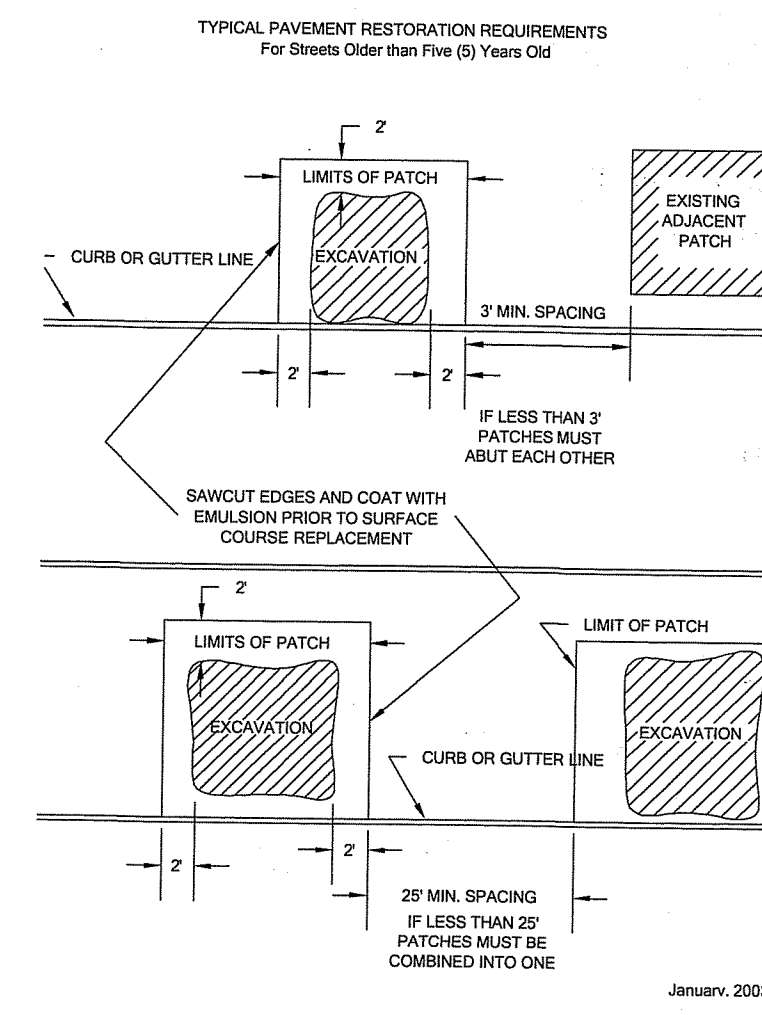
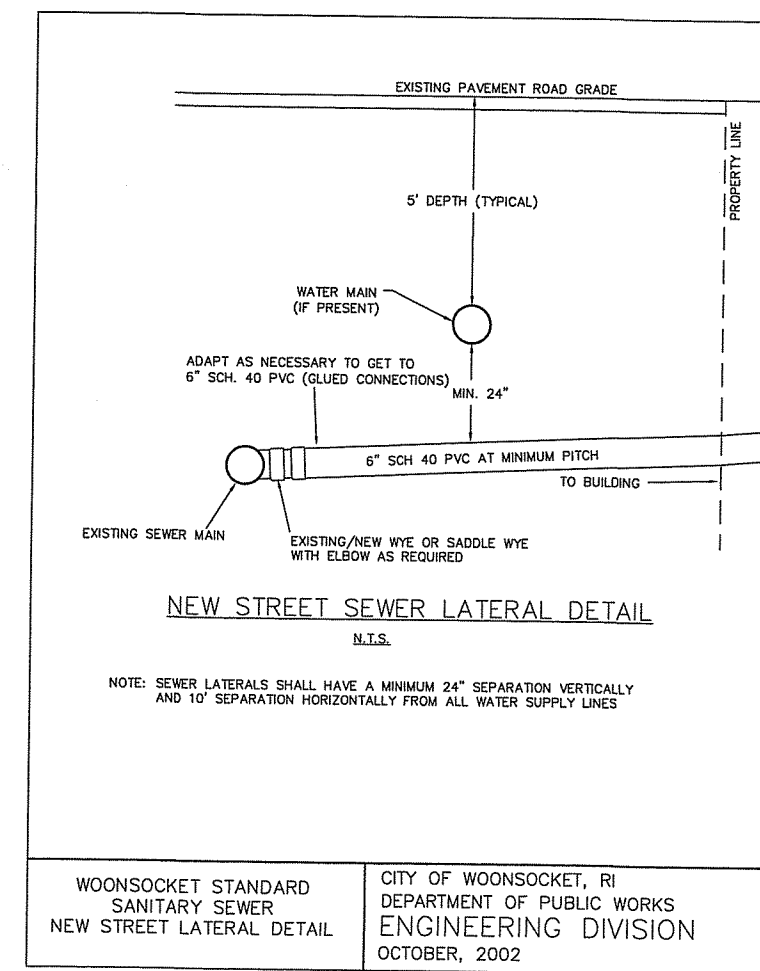
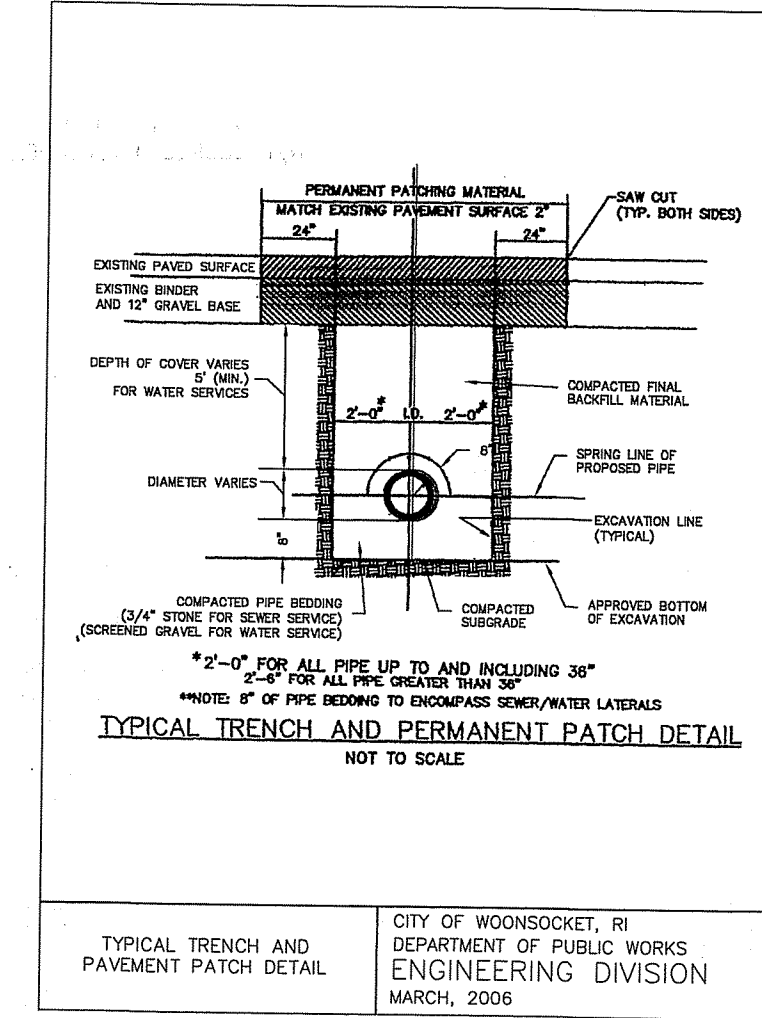
PROJECT:
Proposed Minor Subdivision
A.P. 41 LOT 153
195 Congress Street
Woonsocket, RI 02895

APPLICANT:
BC PARTNERS, LLC
791 High Street
Cumberland, RI 02864

DRAWING TITLE:
GRADING, DRAINAGE, & UTILITY PLAN

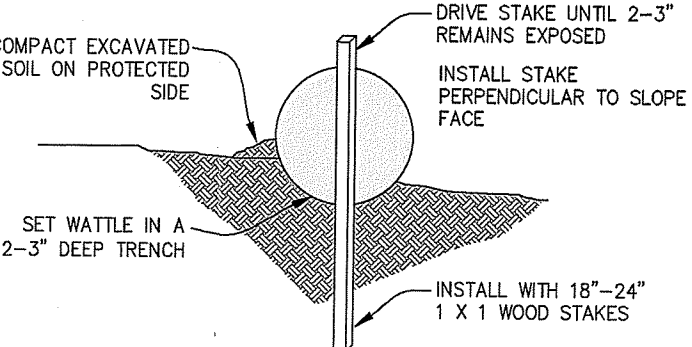
DATE: SEPTEMBER 2023 DESIGNED BY: C.S.R.
SCALE: AS NOTED CHECKED BY: C.S.R.

DRAWING NO. C-1
Per Dem: Sheet 1 of 2



STORMWATER OPERATION & MAINTENANCE

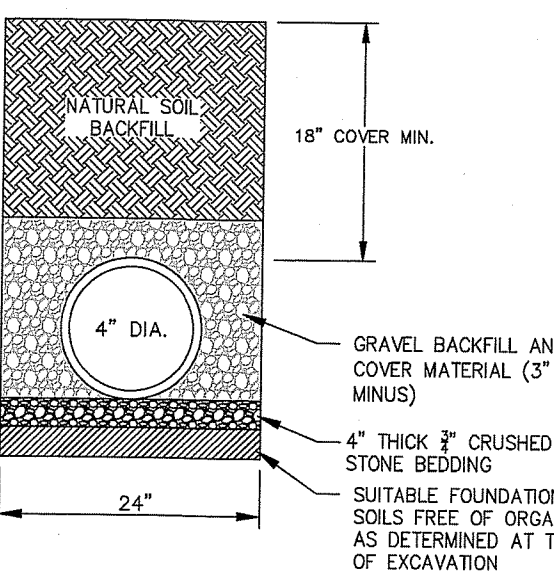
1. THE HOMEOWNER OF EACH INDIVIDUAL LOT HAS THE RESPONSIBILITY TO MAINTAIN THE STORMWATER CONTROLS TO PRESERVE THE LONG-TERM FUNCTIONALITY.
2. INSPECTIONS SHALL BE DONE ON AN ANNUAL BASIS AND AFTER STORM EVENTS GREATER THAN OR EQUAL TO 1" OF RAINFALL IN A 24-HOUR PERIOD.
3. MAINTENANCE SHALL INCLUDE THE FOLLOWING ON A ROUTINE BASIS:
 - REMOVE ALL WEEDS, DEBRIS, TRASH, ETC.
 - GRASS SHALL BE MOWED TO MAINTAIN A GRASS HEIGHT BETWEEN 2" AND 10".
 - SILT/SEDIMENT SHALL BE REMOVED FROM THE SURFACE OF THE SAND FILTER AFTER IT REACHES 1" IN DEPTH.
 - IF STANDING WATER IS OBSERVED MORE THAN 48 HOURS AFTER A STORM EVENT, THEN THE STONE, TOPSOIL, AND/OR SAND MUST BE REMOVED AND REPLACED-IN-KIND.



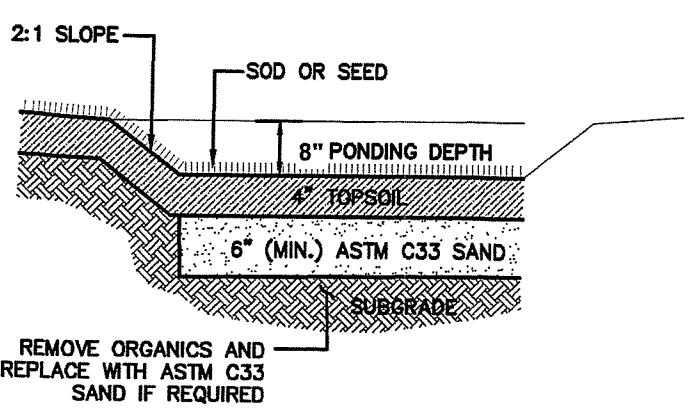
INSTALLATION NOTES:

1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" DEEP X 8" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT THE SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 18" - 24" STAKES EVERY 3 - 4' WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLES LEAVING AT LEAST 1" - 3" OF STAKE EXTENDING ABOVE. THE WATTLE STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.

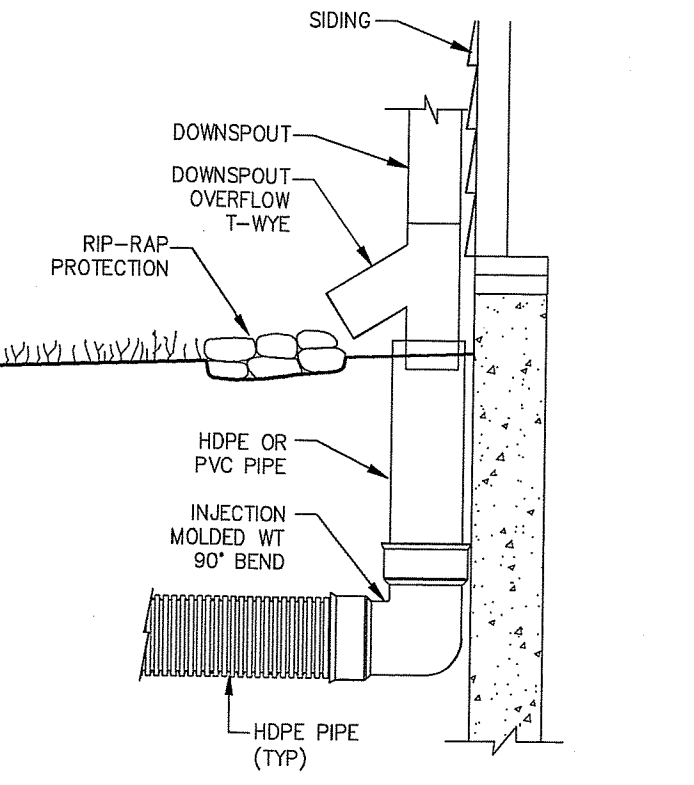
Straw Wattle Detail
NOT TO SCALE



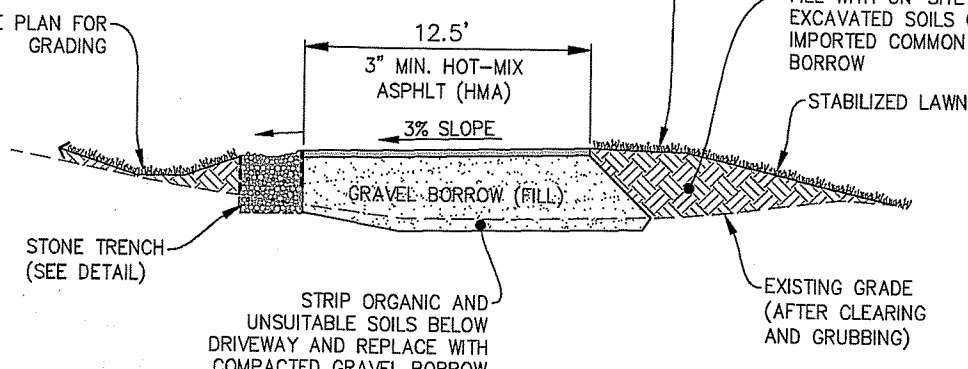
Sand Filter Detail
NOT TO SCALE



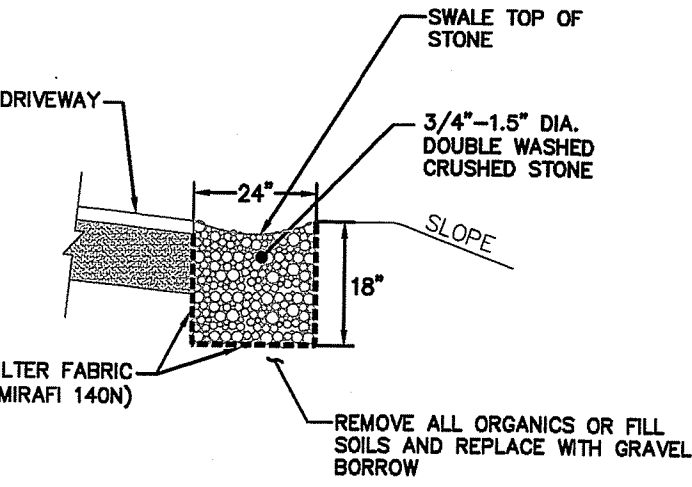
Drain Pipe Trench
NOT TO SCALE



Downspout Connection with Overflow
NOT TO SCALE



Driveway Construction
NOT TO SCALE

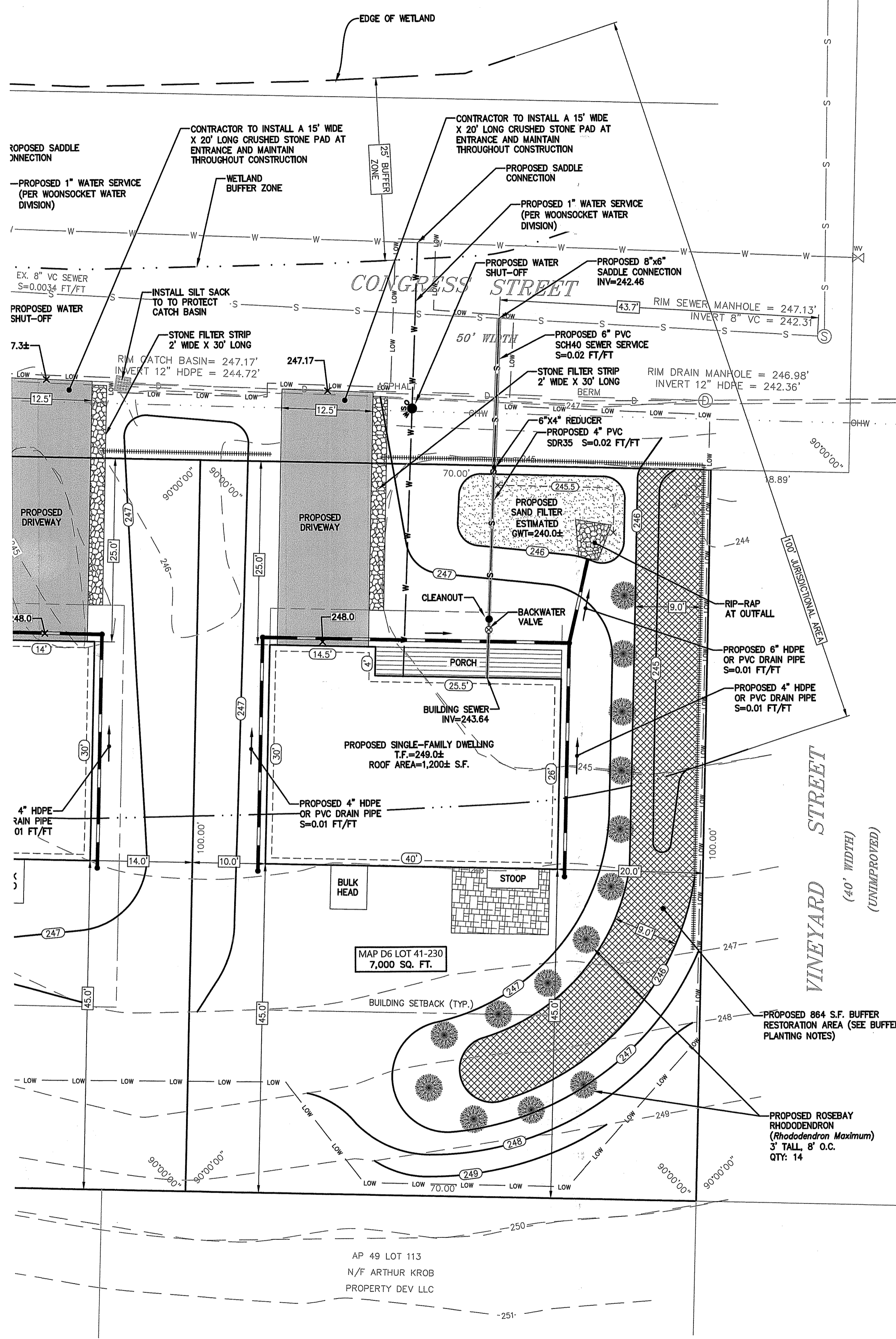


Crushed Stone Filter Strip
NOT TO SCALE

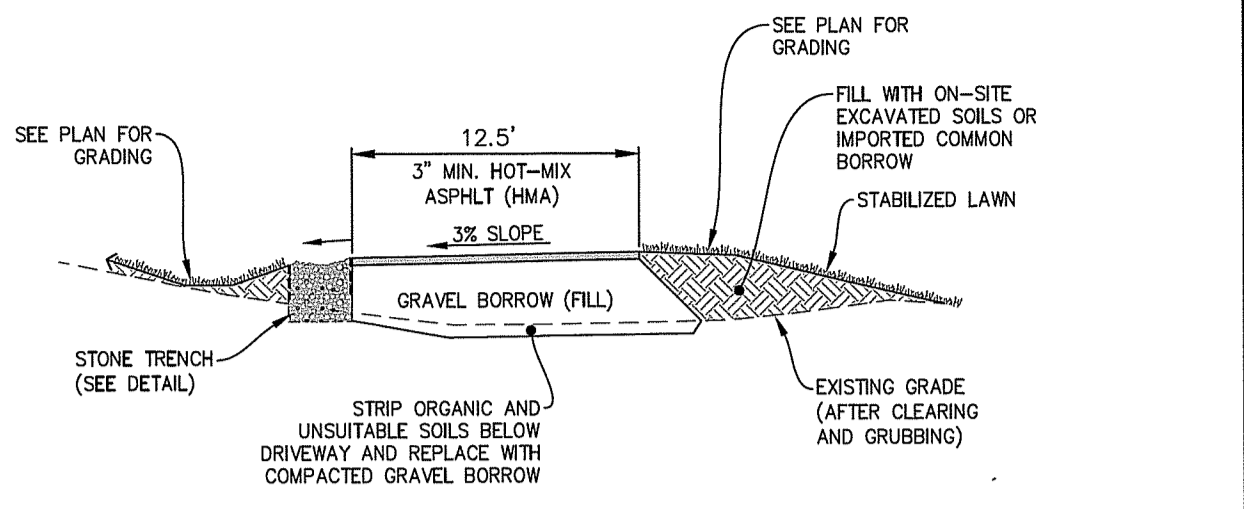
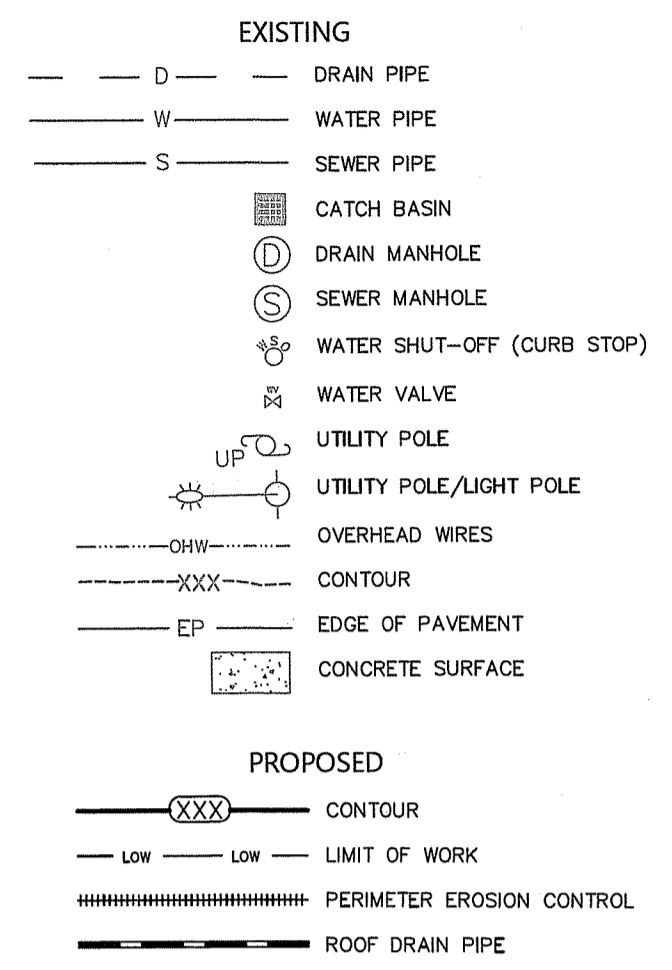
Water Quality Calculations

Impervious Location	Contributing Area (sq. ft.) A	Treatment Area Calculation	Treatment Area Req'd (sq. ft.)	Treatment Area Provided (sq. ft.)
STONE TRENCH SIZING (18" DEPTH)				
Lot 2 Driveway	460	A / 1000 X 120	56	60
Lot 3 Driveway	450	A / 1000 X 120	54	60
Lot 4 Driveway	440	A / 1000 X 120	53	60
SAND FILTER SIZING (8" PONDING DEPTH)				
Lot 2 Rooftop	1,100	150 / 1000 x A	165	290
Lot 3 Rooftop	1,100	150 / 1000 x A	165	300
Lot 4 Rooftop	1,100	150 / 1000 x A	165	240

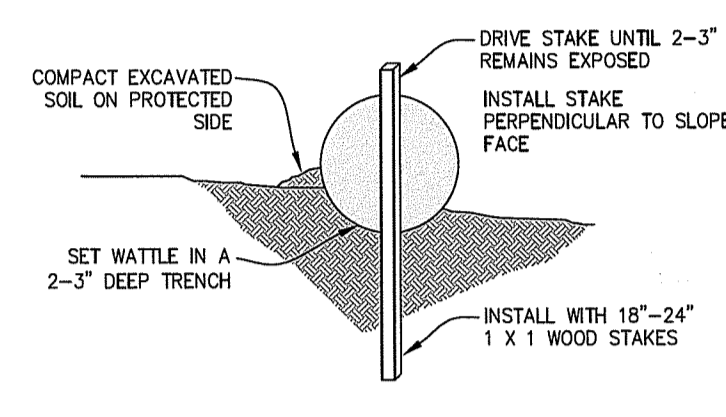
WATER QUALITY CALCULATIONS ARE BASED ON THE STATE OF RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT.



Legend



Driveway Construction
NOT TO SCALE



INSTALLATION NOTES:

- BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3' DEEP X 12' WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
- PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT THE SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPRICH SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
- SECURE THE WATTLE WITH 18 - 24" STAKES EVERY 3 - 4' WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLES LEAVING AT LEAST 1" OF STAKE EXTENDING ABOVE. THE WATTLE STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.

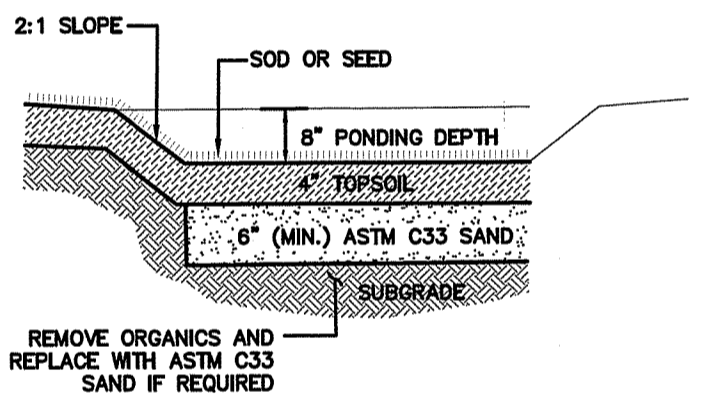
Water Quality Calculations

Impervious Location	Contributing Area (sq. ft.) A	Treatment Area Calculation	Treatment Area Req'd (sq. ft.)	Treatment Area Provided (sq. ft.)
STONE TRENCH SIZING (18" DEPTH)				
Driveway	440	A / 1000 X 120	53	60
SAND FILTER SIZING (8" PONDING DEPTH)				
Rooftop	1,200	150 / 1000 x A	180	290

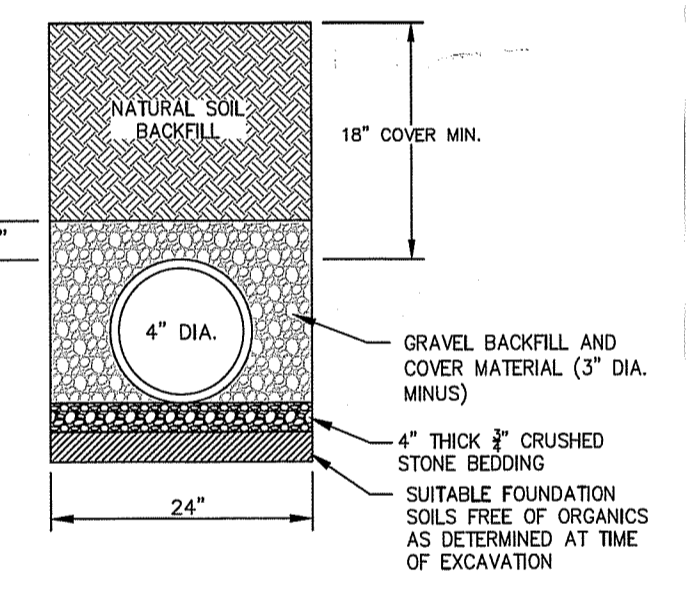
WATER QUALITY CALCULATIONS ARE BASED ON THE STATE OF RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT.

Sway Wattle Detail

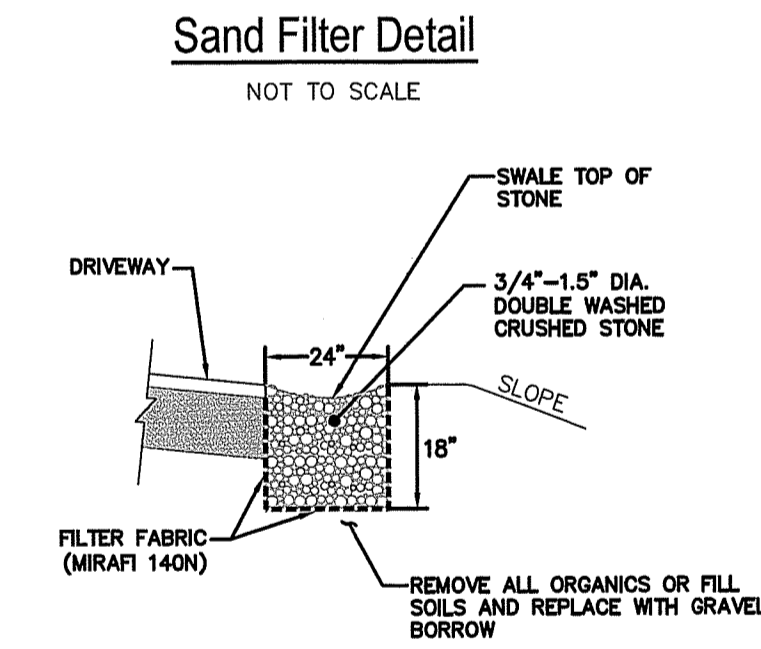
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type of extent of freshwater wetlands on site.



Sand Filter Detail
NOT TO SCALE



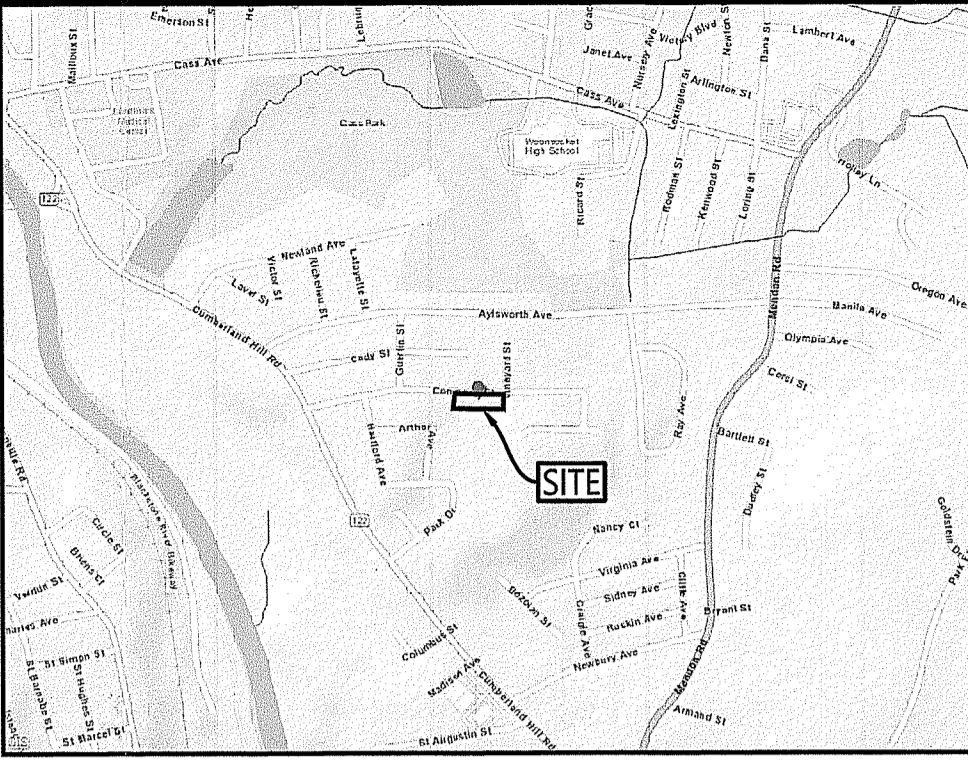
Drain Pipe Trench
NOT TO SCALE



Crushed Stone Filter Strip
NOT TO SCALE

BUFFER PLANTING NOTES:

- MINIMUM 4" OF LOAM AND PLANTED WITH A NORTHEAST WILDLIFE CONSERVATION MIX.
- INSTALL THE FOLLOWING SHRUB MIX AT 5'-0" O.C. BASED ON 864 S.F. OF PLANTING AREA:
 - COMMON WINTERSBERRY (ILEX VERTICILLATA) QTY: 17
 - ARROWWOOD VIBURNUM (VIBURNUM DENTATUM) QTY: 17
- SHRUBS TO BE 3' TALL AFTER PLANTING.



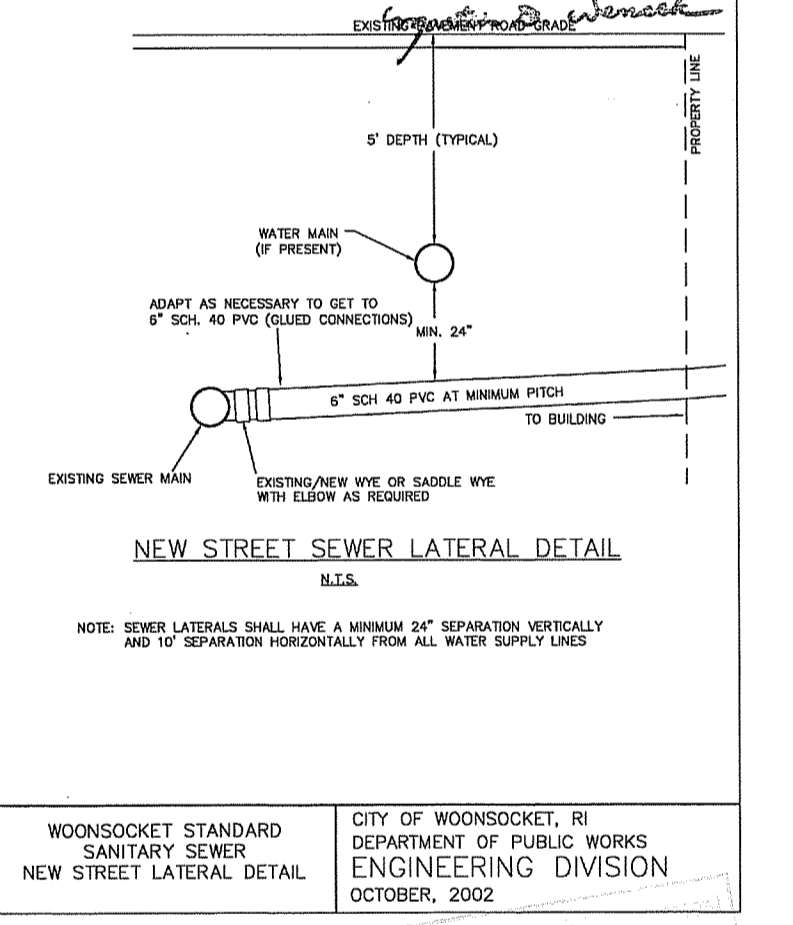
LOCUS MAP
NOT TO SCALE

STORMWATER OPERATION & MAINTENANCE

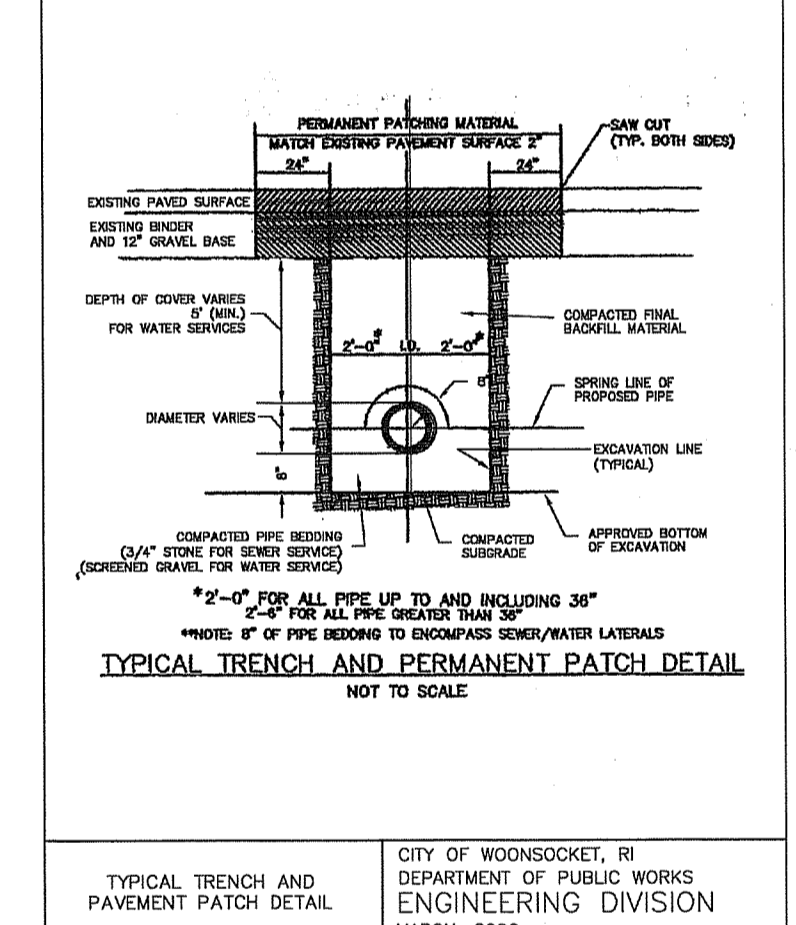
- THE HOMEOWNER OF EACH INDIVIDUAL LOT HAS THE RESPONSIBILITY TO MAINTAIN THE STORMWATER CONTROLS TO PRESERVE THE LONG-TERM FUNCTIONALITY.
- INSPECTIONS SHALL BE DONE ON AN ANNUAL BASIS AND AFTER STORM EVENTS GREATER THAN OR EQUAL TO 1" OF RAINFALL IN A 24-HOUR PERIOD.
- MAINTENANCE SHALL INCLUDE THE FOLLOWING ON A ROUTINE BASIS:
 - REMOVE ALL WEEDS, DEBRIS, TRASH, ETC.
 - GRASS SHALL BE MOVED TO MAINTAIN A GRASS HEIGHT BETWEEN 2" AND 10".
 - SILT/SEDIMENT SHALL BE REMOVED FROM THE SURFACE OF THE SAND FILTER AFTER IT REACHES 1" IN DEPTH.
 - IF STANDING WATER IS OBSERVED MORE THAN 48 HOURS AFTER A STORM EVENT, THEN THE STONE, TOPSOIL, AND/OR SAND MUST BE REMOVED AND REPLACED-IN-KIND.

**RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM**

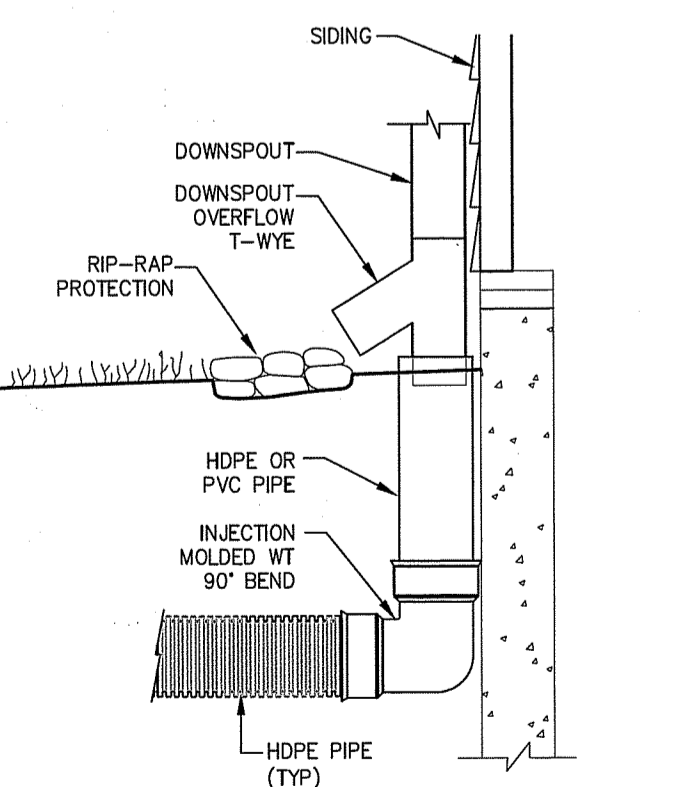
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 18 2025 FILE # 24-020
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



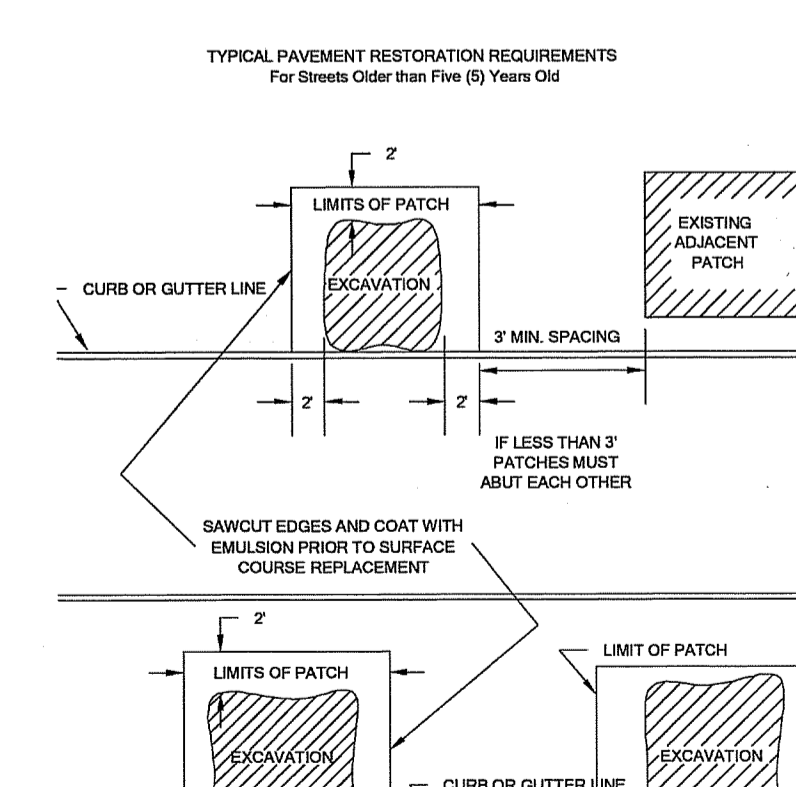
NEW STREET SEWER LATERAL DETAIL
NOT TO SCALE



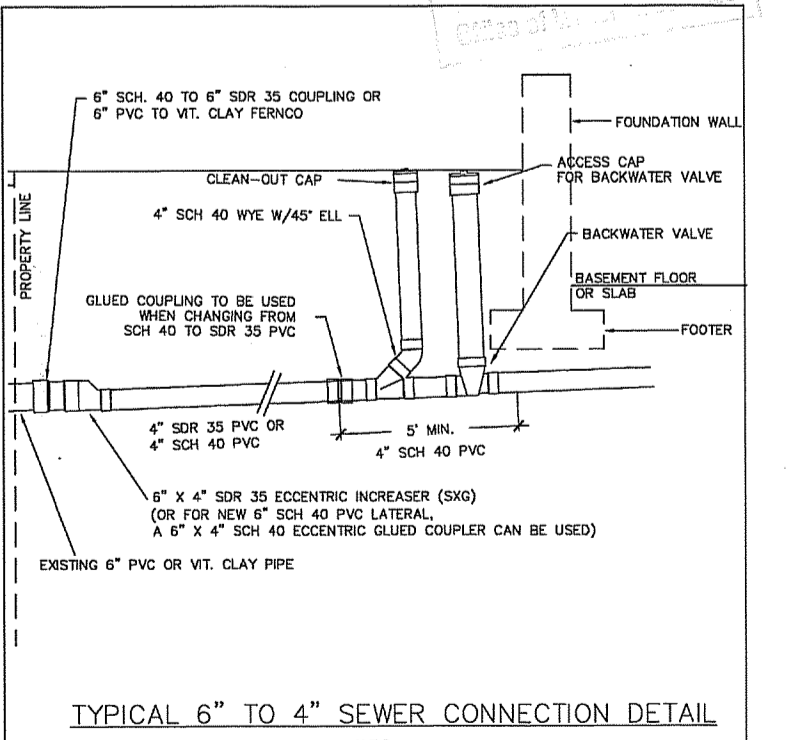
TYPICAL TRENCH AND PAVEMENT PATCH DETAIL
NOT TO SCALE



Downspout Connection with Overflow
NOT TO SCALE



TYPICAL PAVEMENT RESTORATION REQUIREMENTS
NOT TO SCALE



TYPICAL 6\"/>

- GENERAL NOTES:**
- THE CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO START OF CONSTRUCTION AND MAINTAIN ALL MARKINGS FOR THE DURATION OF THE PROJECT.
 - THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE CONTRACTOR SHALL NOTIFY "DIG-SAFE" PRIOR TO EXCAVATION AND SHALL NOTIFY LOCAL UTILITY COMPANIES BEFORE COMMENCEMENT OF WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND RELOCATE UTILITIES AS REQUESTED SHOULD THERE BE A CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
 - THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO COORDINATE AND OBTAIN ALL PERMITS PRIOR TO CONSTRUCTION.

- UTILITY NOTES:**
- ALL WORK WITHIN THE CITY RIGHT-OF-WAY SHALL CONFORM TO THE PERMIT MANUAL OF THE CITY OF WOOSOCKET DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION.
 - ALL WATER WORK SHALL BE IN CONFORMANCE WITH WOOSOCKET WATER DIVISION MATERIAL SPECIFICATIONS AND THE RULES AND REGULATIONS OF THE WATER WORKS DIVISION OF THE PUBLIC WORKS DEPARTMENT.
 - WATER SERVICES FROM THE MAIN TO THE CURB STOP ARE INSTALLED BY THE WATER WORKS DIVISION.
 - THE OWNER/DEVELOPER IS RESPONSIBLE TO COORDINATE WITH RI ENERGY AND TEL/DATA PROVIDER.

- SOIL EROSION AND SEDIMENT CONTROL NOTES**
- ALL DISTURBED AREAS SHALL BE SEEDED, PROTECTED, AND MAINTAINED BY THE CONTRACTOR.
 - EROSION CONTROLS SHALL BE MONITORED AND MAINTAINED BY THE CONTRACTOR ON A WEEKLY BASIS THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL GROUND COVER IS ESTABLISHED.
 - THE CONTRACTOR SHALL MAINTAIN ALL STOCKPILES THROUGHOUT CONSTRUCTION WITH POLY COVERING OR TEMPORARY SEEDING TO MITIGATE ANY OFF-SITE RUNOFF OR WIND-BLOWN DUST.
 - CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT EROSION CONTROLS BECOME FILLED IN WITH SEDIMENTS.
 - THE STONE STABILIZATION PAD AT THE SITE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND.
 - ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
 - REFERENCE THE "RHODE ISLAND EROSION AND SEDIMENTATION CONTROL HANDBOOK" FOR FURTHER INFORMATION INCLUDING DETAILS AND PROCEDURES.

ZONE: F2

MINIMUM AREA: 7,000 S.F.
MAX. LOT COVERAGE: 50%
STREET FRONTAGE: 70'
LOT WIDTH AT BLDG. LINE: 70'
MIN. FRONT YARD: 20'
MIN. SIDE YARD: 10'
MIN. REAR YARD: 25'
MAX. HEIGHT: 30' (2 STORES)

SURVEY REFERENCE NOTE:
PROPERTY LINE SURVEY, TOPOGRAPHY, AND EXISTING CONDITIONS WERE PROVIDED BY THE APPLICANT, BC PARTNERS, FROM A PLAN ENTITLED, MINOR SUBDIVISION, SURVEY OF MAP DB LOT 41-153, DATED JUNE 28, 2022 BY MARSH & LONG SURVEYING, INC.

Advanced Civil Design, Inc.
CIVIL ENGINEERS

88 PEEPTOAD ROAD
SITUATE, RI 02857
PH: (401) 473-4404

NO.	DATE	REVISION
2	4/16/25	RIDEM COMMENTS - BUFFER RESTORATION
1	11/14/24	ADDRESS DPW ENGINEERING COMMENTS

PROJECT:
Proposed Single Family Dwelling

MAP D6 LOT 41-230
195 Congress Street
Woonsocket, RI 02895

APPLICANT:
BC PARTNERS, LLC
600 Cash Ave.
Woonsocket, RI 02895

GRADING, DRAINAGE, & UTILITY PLAN

DATE: OCTOBER 2024 DESIGNED BY: C.S.R.
SCALE: AS NOTED CHECKED BY: C.S.R.

CURTIS S. RUSTOLO
No. 8756
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

C-1
Per Dem:
Sheet 2 of 2