

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4" (100mm)	24" (533mm)
6" (150mm)	28" (660mm)
8" (200mm)	32" (762mm)
10" (250mm)	36" (813mm)
12" (300mm)	40" (914mm)
15" (375mm)	48" (1067mm)
18" (450mm)	56" (1245mm)
24" (600mm)	72" (1601mm)
30" (750mm)	84" (1880mm)
36" (900mm)	96" (2133mm)
42" (1050mm)	108" (2380mm)
48" (1200mm)	120" (2633mm)
60" (1500mm)	144" (3193mm)

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS**

PIPE DIAM.	SURFACE LIVE LOADING CONDITION			
	H-25	12"	48"	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48" (300mm - 1200mm)	12"	12"	12"	12"
60" (1500mm)	24"	24"	24"	24"

**VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER **SEE BACKFILL REQUIREMENTS IN NOTE 6.

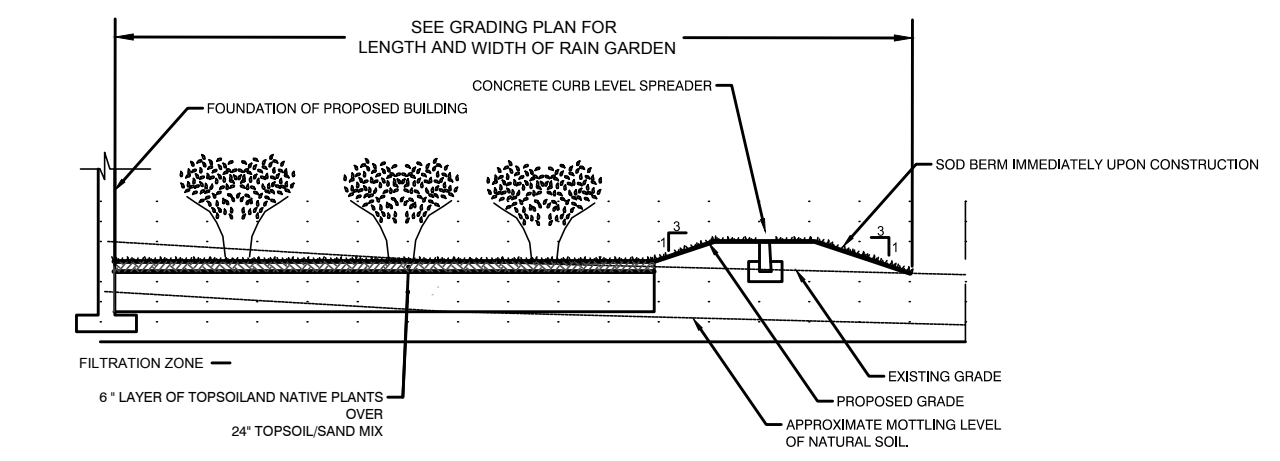
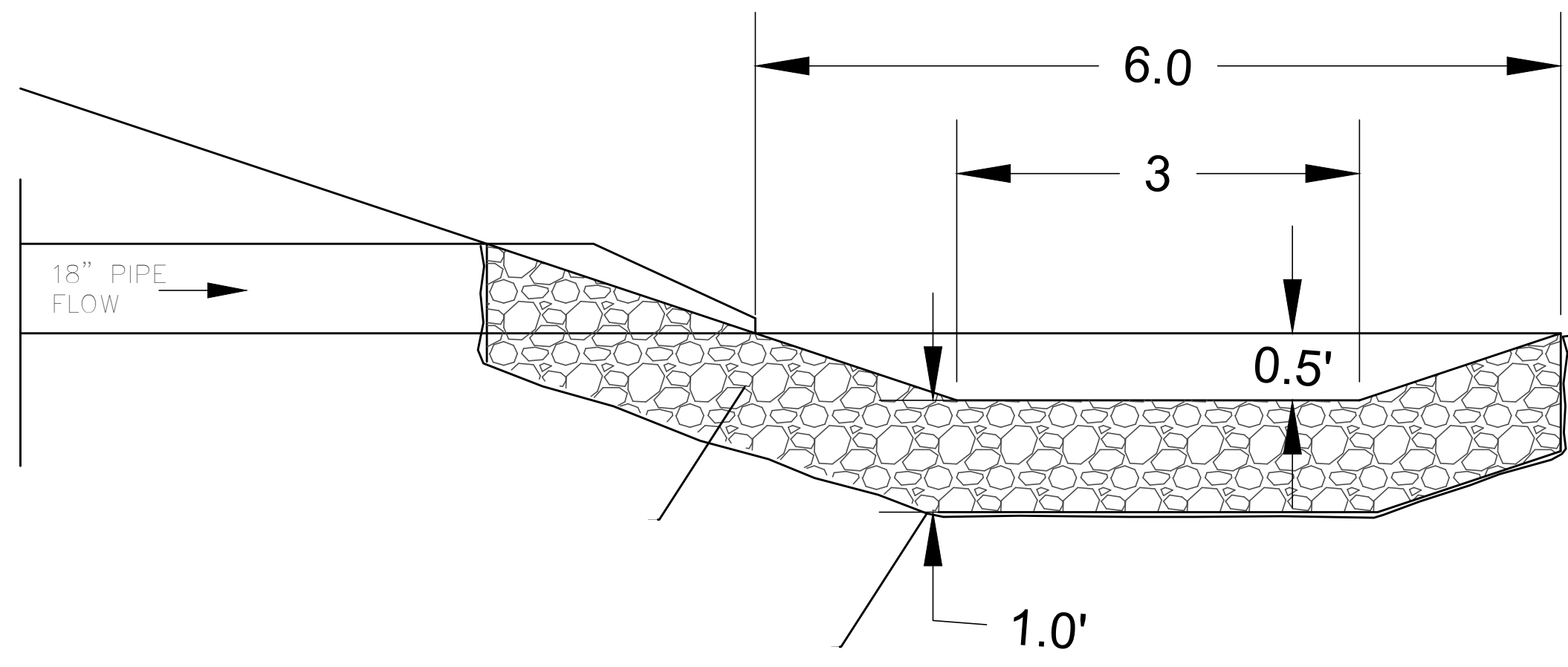
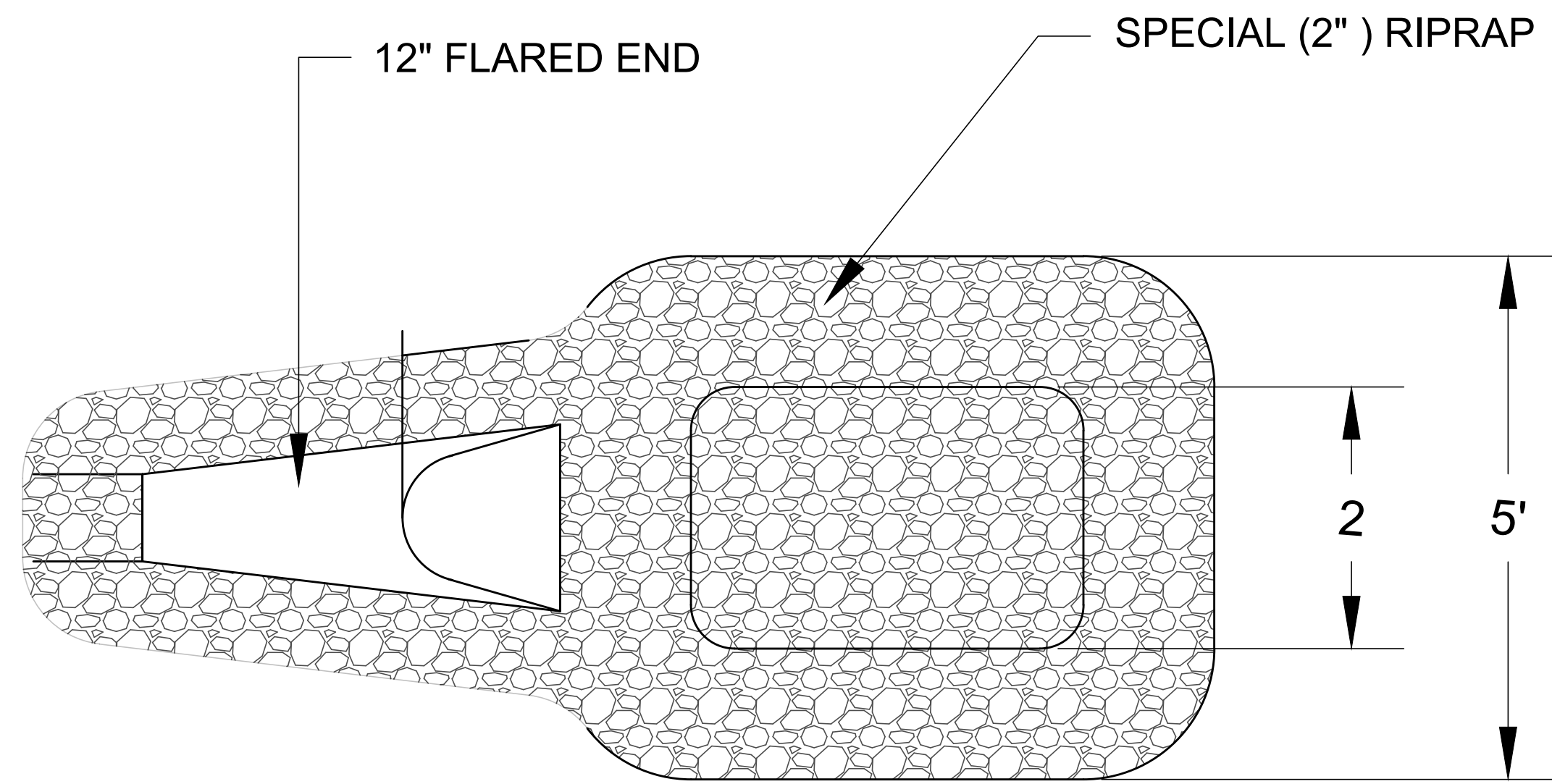
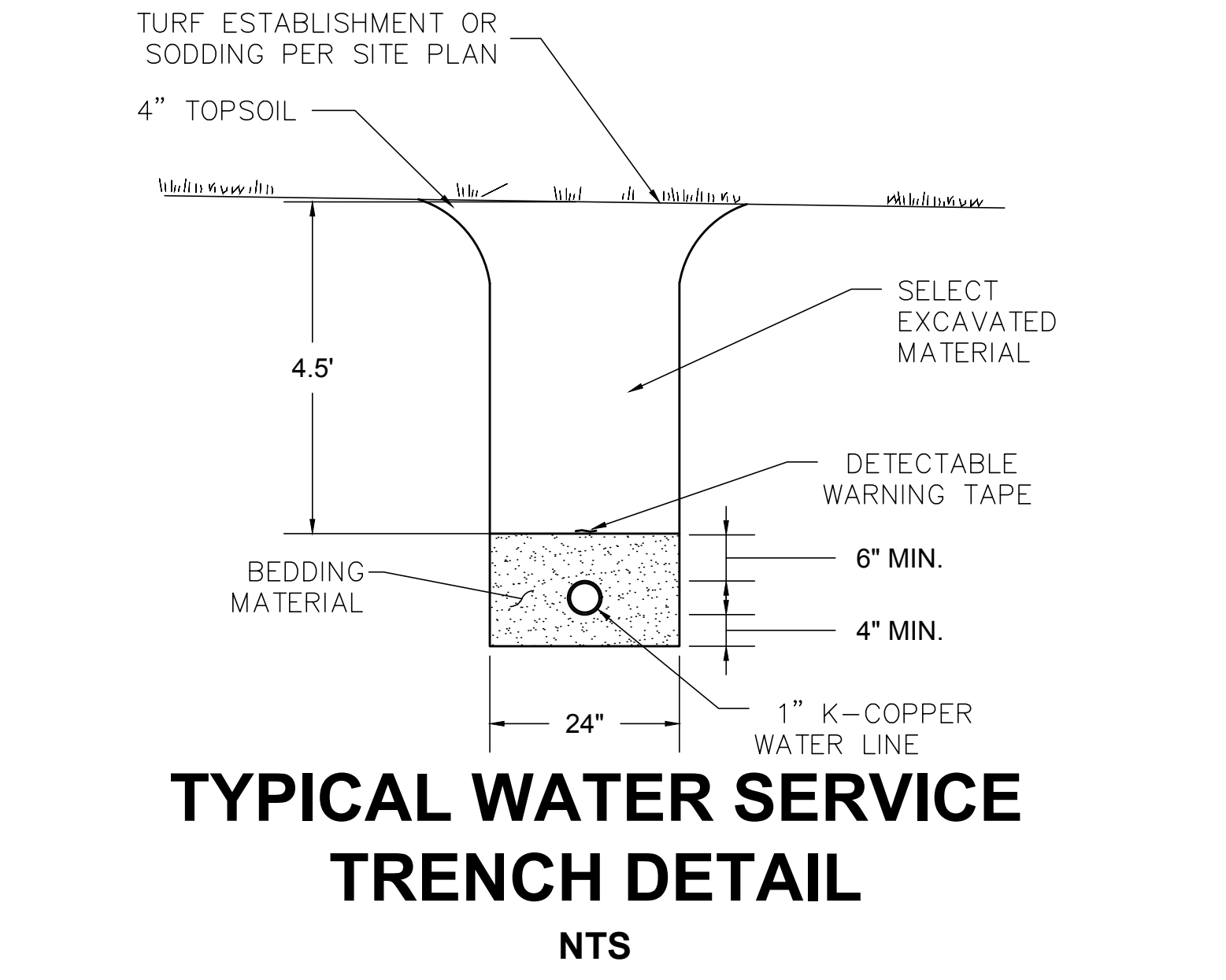
MAXIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	CLASS I				CLASS II				CLASS III			
	COMPACTED	DUMPED	95%	90%	95%	90%	95%	90%	95%	90%	95%	
4"	34	16	23	16	17	17	17	17	17	17	17	
6"	40	19	27	19	20	20	20	20	20	20	20	
8"	30	14	21	14	15	15	15	15	15	15	15	
10"	34	16	23	16	17	17	17	17	17	17	17	
12"	35	17	24	17	18	18	18	18	18	18	18	
15"	37	18	25	18	19	19	19	19	19	19	19	
18"	32	15	22	15	16	16	16	16	16	16	16	
24"	27	13	19	13	14	14	14	14	14	14	14	
30"	22	11	16	11	11	11	11	11	11	11	11	
36"	20	12	19	12	13	13	13	13	13	13	13	
42"	24	11	17	11	12	12	12	12	12	12	12	
48"	23	11	16	11	12	12	12	12	12	12	12	
60"	26	12	18	12	13	13	13	13	13	13	13	

NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

ADVANCED DRAINAGE SYSTEMS, INC. (ADS) HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED AN ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL IN NATURE AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEET OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.



LOCATION OF RAIN GARDEN IS EXPECTED TO BE SHADY. PLANTINGS SHALL BE CHOSEN FROM ABOVE LIST AND SHALL PROVIDE DIVERSITY BY USING A MINIMUM OF THREE SPECIES OF SHRUBS AND OF PLANTS. MINIMUM PLANT SPACING SHALL BE DETERMINED BY SPECIES AND SUPPLYING NURSERY SPECIFICATIONS.

RAIN GARDEN
NTS

PREFORMED SCOUR HOLE
NTS

SPECIFICATIONS AND DETAILS
SUBSURFACE SEWAGE DISPOSAL SYSTEM
1572 Boston Turnpike

Prepared For
LADA, PC

Coventry Connecticut

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RAIN GARDEN
PLANTING SCHEDULE
(FOR SHADY AREAS)

SHRUBS	PLANTS
Arrowwood (Viburnum dentatum)	Basil Balm (Monarda clinopodia)
Common Elderberry (Sambucus canadensis)	Blue-eyed Grass (Sisyrinchium angustifolium)
Hackberry (Celtis occidentalis)	Creamy Violet (Viola striata)
Ninebark (Physocarpus opulifolius)	Golden Ragwort (Senecio aureus)
Rosebay (Rhododendron meimum)	Hairy Woodrush (Luzula acuminata)
Spicebush (Lindera benzoin)	Maple-leaved Waterleaf (Hydrophilum canadense)
Wild Hydrangea (Hydrangea arborescens)	Marsh Marigold (Caltha palustris)
	Meadow Phlox (Phlox maculata)
	Meadow Sweet (Spiraea alba)
	Monkey Flower (Mimulus ringens)
	Northern Blue Flag (Iris versicolor)
	Sensitive Fern (Onoclea sensibilis)
	Spiderwort (Tradescantia virginiana)
	Summer Phlox (Phlox paniculata)
	Tall Meadow Hue (Thalictrum pubescens)
	Thin-leaved Sunflower (Helianthus decapetalis)
	Virginia Bluebells (Mertensia virginia)
	White Turtlehead (Chelone glabra)
	Wild Geranium (Geranium maculatum)
	Woodland Sunflower (Helianthus divaricatis)

Revision/Issue	Date
1 Revised rain garden section detail to show curb level spreader as flush	4/08/22

License No. 17231

STATE OF CONNECTICUT
MICHAEL G. SHERMAN
No. 17231
LICENSED PROFESSIONAL ENGINEER

Scale: as noted	Project No.: 21-105	3
Drawn By: MGS	File Name: 2286 SSDS.dwg	
Revised Through: 04/08/22	Submitted: 02/11/22	