

PLANTING KEY

RAIN GARDEN

PLANTING RATES

PLANT TYPE	PLANTING AREA (SQ FT)	PLANTING DENSITY (PER SQ FT)	NUMBER OF PLANTS	NUMBER OF SPECIES
HERB PLANTS	310	X 1.78 (9" o/c)	= 552	4

ZONE 1	WET: STANDING OR FLOWING WATER/NEARLY CONSTANT SATURATION; ANAEROBIC SOILS 310 SQ FT
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HERB PLANTS	310	X	1.78 (9" o/c)	=	552	4
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ZONE A	SEASONAL SATURATED / TEMPORARY INUNDATED ZONE 1,386 SQ FT
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TREES	1,386	/	100	X	4	=	56	3
LG. SHRUB / SM. TREE	1,386	/	100	X	4	=	56	3
SHRUBS	1,386	/	100	X	3	=	42	3
GROUND COVER	1,386	x	.75	X		=	1,040	4

RAIN GARDEN FACILITY

(REFER TO PLANTING DETAILS SHEET L1.2)

ZONE 1	SEASONAL SATURATED / TEMPORARY INUNDATED ZONE - <u>TREATMENT AREA</u> 310 SQ FT	Minimum Species Composition	Minimum Rooting Size	Minimum Plant Height	Spacing Format
					
Plant Communities					

Slough Sedge ( <i>Carex obnupta</i> )	138	Plug	6"	9" o/c.
Creeping Spike Rush ( <i>Eleocharis palustris</i> )	138	Plug	6"	9" o/c.
Spreading Rush ( <i>Juncus patens</i> )	138	Plug	6"	9" o/c.
Small Fruited Bulrush ( <i>Scirpus microcarpus</i> )	138	Plug	6"	9" o/c.

SYMBOL	Plant Communities	Minimum Species Composition	Minimum Rooting Size	Minimum Plant Height	Spacing Format
W. Saskatoon Serviceberry (Amelanchier alnifolia)	5	1.5" Cal.			
Incense Cedar (Calocedrus decurrens)	5	6" Ht.			
Western Red Cedar (Thuja plicata)	4	6" Ht.			
Total Tree	14				









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






PLANT MATERIALS LISTING: PHASE 1

Botanical name Common Name					
SYM	TREES	QTY.	SIZE	CONDITION	REMARKS
	Acer circinatum Vine Maple	13	6-7'	B&B	Multi-stem Collected
	Acer rubrum 'Armstrong' Armstrong Columnar Maple	17	1.5" Cal.	B&B	
	Cercidiphyllum japonicum Katsura	7	1.5" Cal.	B&B	
	Chamaecyparis obtusa 'Gracilis' Gracilis Hinoki Cypress	5	6-7'	B&B	
	x Cupressocyparis leylandii 'Naylor's Blue' Naylor's Blue Cypress	4	6-7'	B&B	
	Styrax japonica Japanese Snowbell	11	1.5" Cal.	B&B	
	Thuja plicata 'Smaragd' Emerald Green Arborvitae	61	5-6'	B&B	
	Zelkova serrata 'Village Green' Village Green Zelkova	6	2" Cal.	B&B	Street Tree
Total Trees		124			

PLANT MATERIALS LISTING: PHASE 1

Botanical name Common Name					
SYM	SHRUBS	QTY.	SIZE	CONDITION	REMARKS
⊕	Berberis thunbergii 'Crimson Pygmy' Crimson Pygmy Barberry	16	1 Gal	Can	
⊗	Berberis thunbergii 'Helmond Pillar' Helmond Pillar Barberry	33	1 Gal	Can	
⊗	Calamagrostis x acutiflora 'Karl Foerster' Foerster's Feather Reed Grass	16	1 Gal	Can	
⊗	Choisya ternata 'Sundance' Sundance Mexican Orange	20	5 Gal	Can	
⊗	Cornus 'Elegantissima' Variegated Redtwig Dogwood	35	5 Gal	Can	
⊙	Cornus sericea 'Kelsey' Kelsey Dwarf Redtwig Dogwood	71	2 Gal	Can	
⊙	Euonymus fortunei 'Gold Splash' Gold Splash Euonymus	68	1 Gal	Can	
⊙	Euonymus japonicus 'Silver King' Silver King Euonymus	7	5 Gal	Can	
⊙	Hydrangea 'Cityline' Dwarf Hydrangea	34	2 Gal	Can	
⊙	Hydrangea paniculata 'Littlelime' Littlelime Hydrangea	24	2 Gal	Can	
⊙	Imperata cylindrica 'Rubra' Japanese Blood Grass	20	1 Gal	Can	
⊙	Juniperus chinensis 'Spartan' Spartan Juniper	1	3-4'	B&B	
⊙	Pennisetum alopecuroides 'Hameln' Dwarf Fountain Grass	11	1 Gal	Can	
⊙	Pieris japonica 'FIRE N ICE' FIRE N ICE Lily of the Valley	26	5 Gal	Can	
⊙	Polystichum munitum Sword Fern	81	1 Gal	Can	

PLANT MATERIALS LISTING: PHASE 1

Botanical name Common Name					
SYM	SHRUBS	QTY.	SIZE	CONDITION	REMARKS
	Ribes sanguineum 'King Edward VII' King Edward Flowering Currant	30	5 Gal	Can	
	Rhododendron 'PJM Elite' PJM Elite Rhododendron	13	18-24"	Can	
	Rosa 'Double Red Knockout' Double Red Knockout Rose	21	2 Gal	Can	
	Rosa 'Pink Supreme Carpet' Pink Supreme Carpet Rose	36	1 Gal	Can	
	Rudbeckia fulgida 'Goldsturm' Black Eye Susan	42	1 Gal	Can	
	Sarcococca confusa Fragrant Box	57	2 Gal	Can	
	Viburnum tinus 'Spring Bouquet' Spring Bouquet Viburnum	22	5 Gal	Can	
Total Shrubs		684			

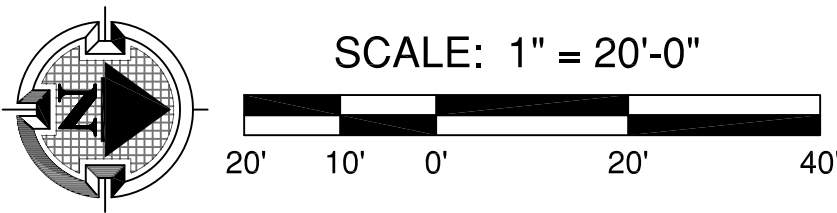
SYM	GROUND COVER	QTY.	SIZE	CONDITION	REMARKS
Rubus calycinoides 'Emerald Carpet'	Creeping Raspberry	93	4"	Pots	24" O.C.
Vinca minor 'Bowles'	Bowles Common Periwinkle	350	4"	Pots	24" O.C.
Hemerocallis 'Stella d'oro'	Stella d'oro Daylily	52	1 gal	Can	24" O.C.
Lawn (seed)		4,740	SF		
Wood chips - 4" depth minimum		1,820	SF		
Wood chips (Playground area) - 12" depth minimum		3,150	SF		

REV.	DATE	DESCRIPTION

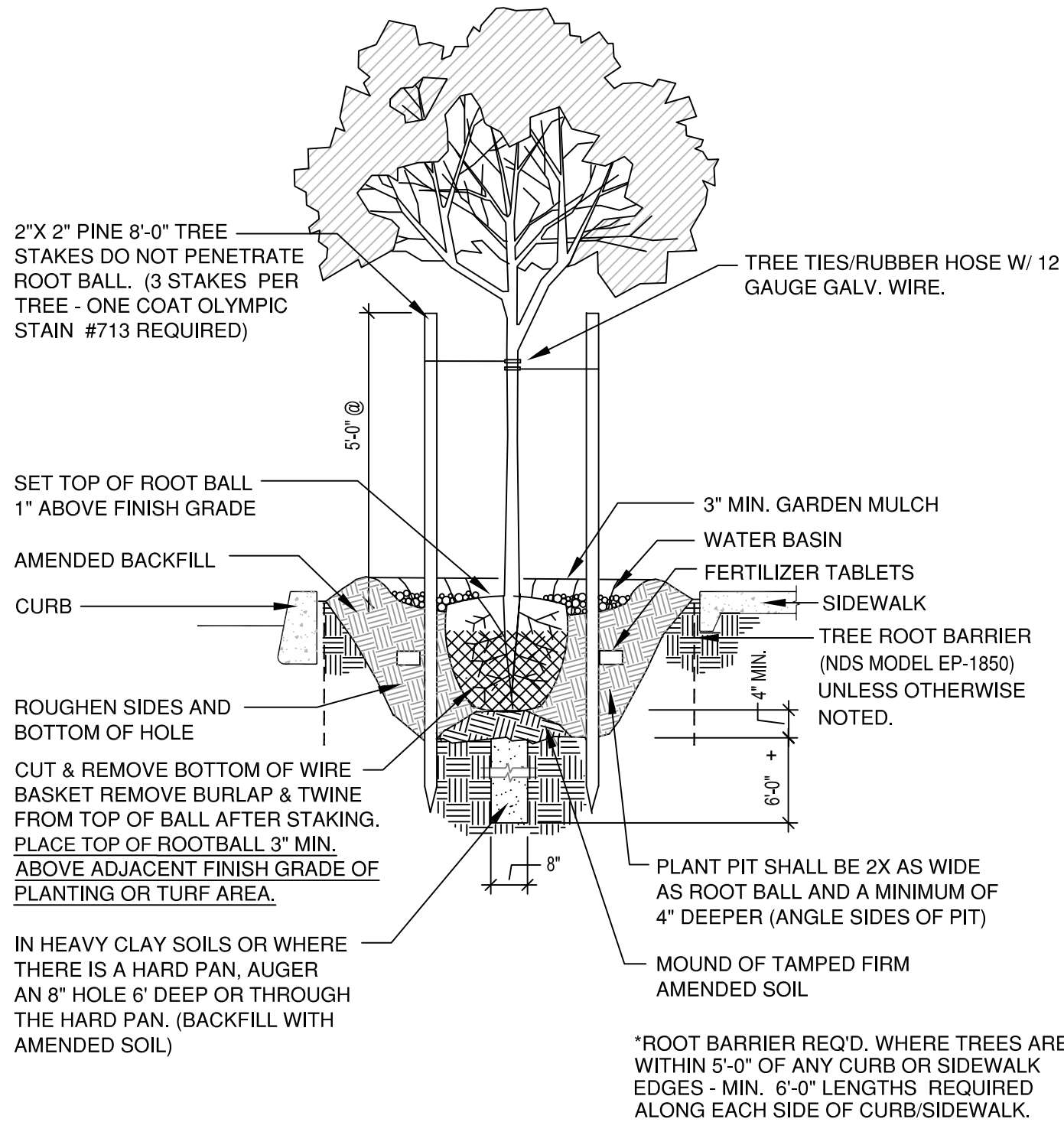
SHEET NAME:
PLANTING PLAN

DRAWN BY:	CL
CHECKED BY:	TM
ISSUE DATE:	1/21/2020
JOB NO.:	1925

SHEET:
L1.1
OF 2

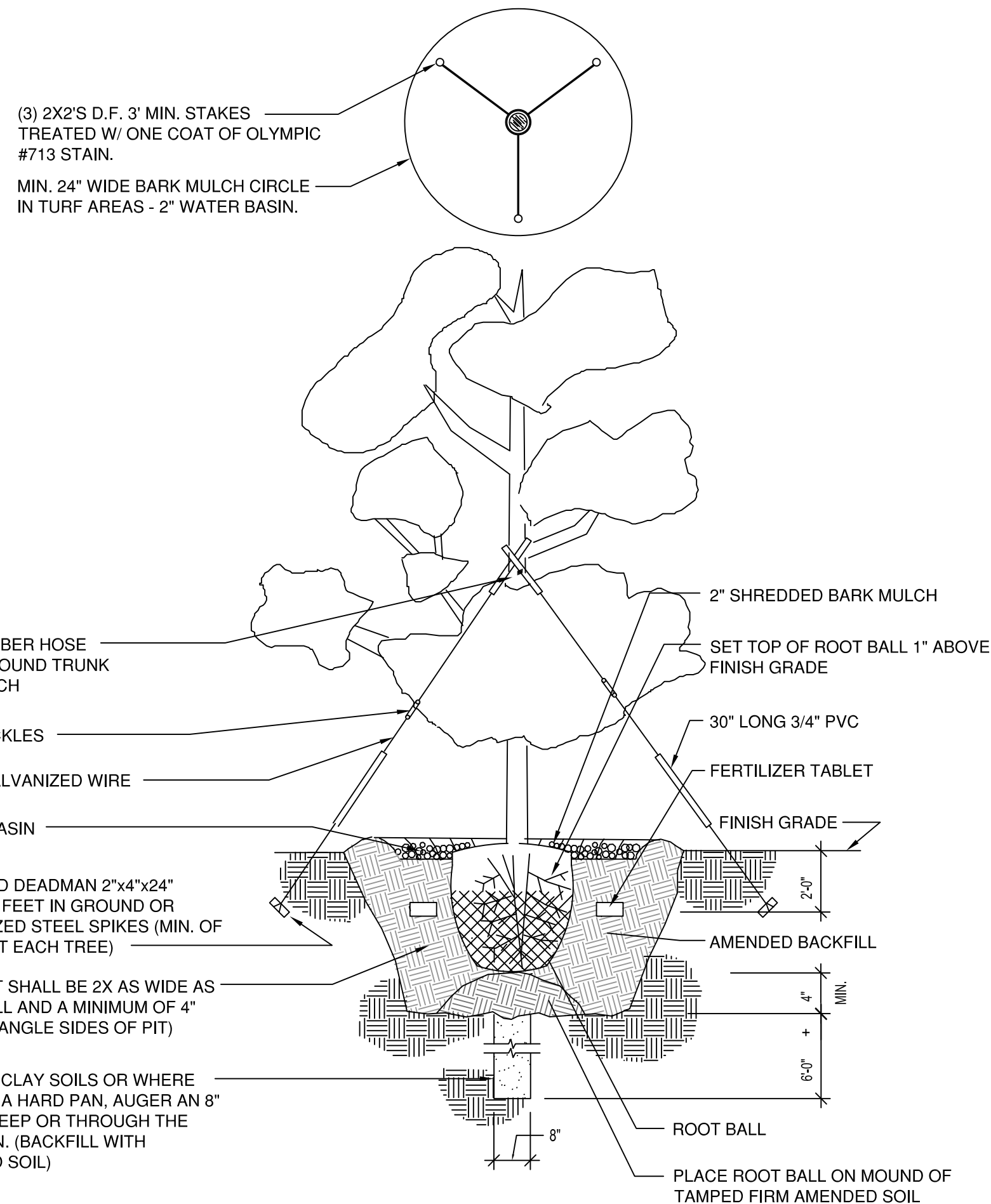






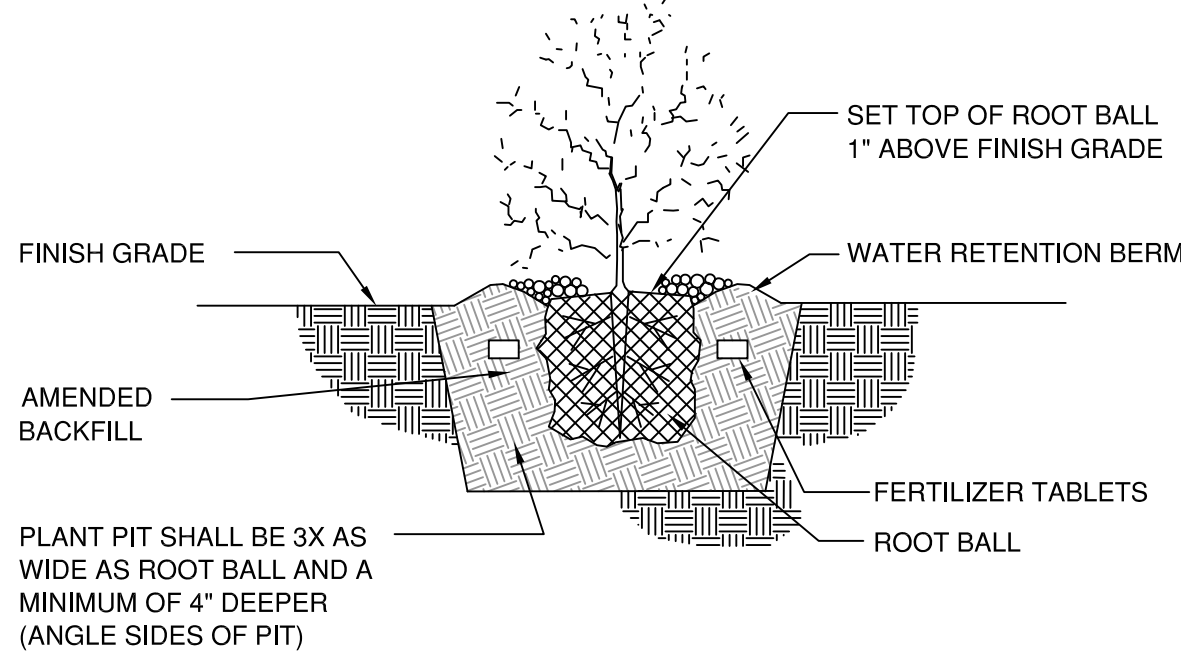
TREE PLANTING DETAIL

N.T.S.



EVERGREEN TREE PLANTING DETAIL

N.T.S.

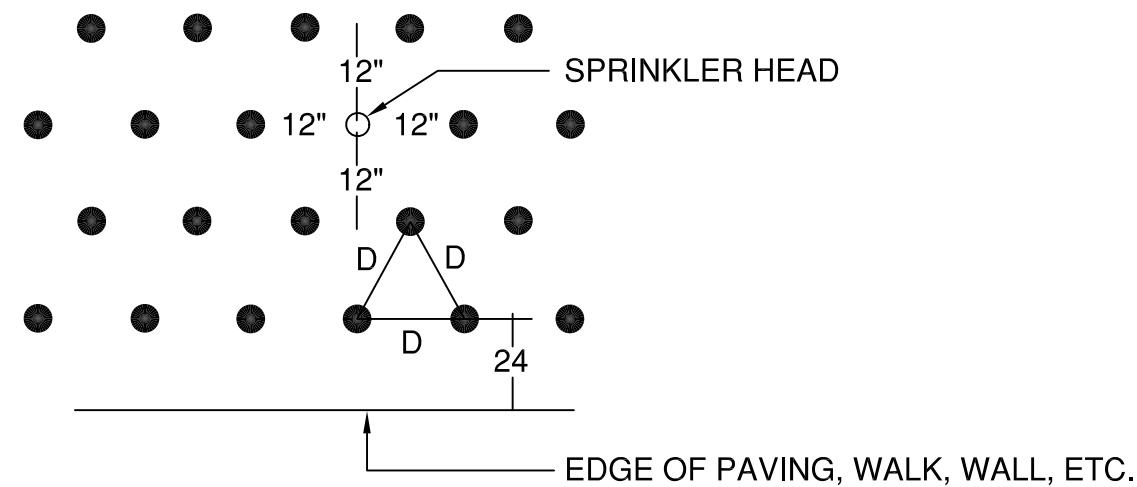


SHRUB PLANTING DETAIL

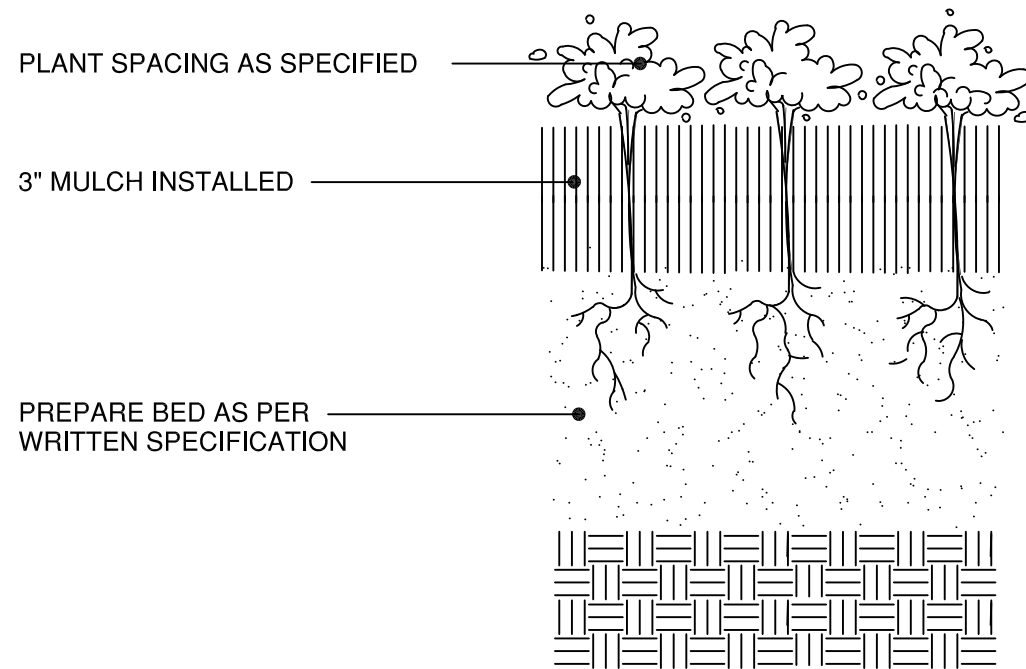
N.T.S.

TYPICAL PLANTING NOTES:

1. B&B stock may be substituted with container stock of equal grade.
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3. Plant material shall conform with American Standard for Nursery Stock, ANSI Z60.1, 2004 edition.
4. All trees shall be branched.
5. Refer to project technical specification for topsoil requirement. All planting beds shall have a minimum of 18 inches topsoil. Re-use of existing topsoil is recommended, but must meet specifications.
6. Garden mulch all planting beds with 3" min. Layer of specified garden mulch.
7. In the event of a discrepancy between this material listing and the drawings, the drawings shall govern the plant species and quantities required.
8. In the event of question or lack of clarity on drawings, Landscape Contractor is to contact Landscape Architect before proceeding.
9. Landscape contractor is to notify Landscape Architect prior to installation of plant material to approve final placement.
10. Landscape Contractor to verify plant material quantities.
11. Contractor will provide a one year warranty on all provided & installed plant material from date of final approval by owner's representative.
12. Automatic irrigation is required for all planted areas.

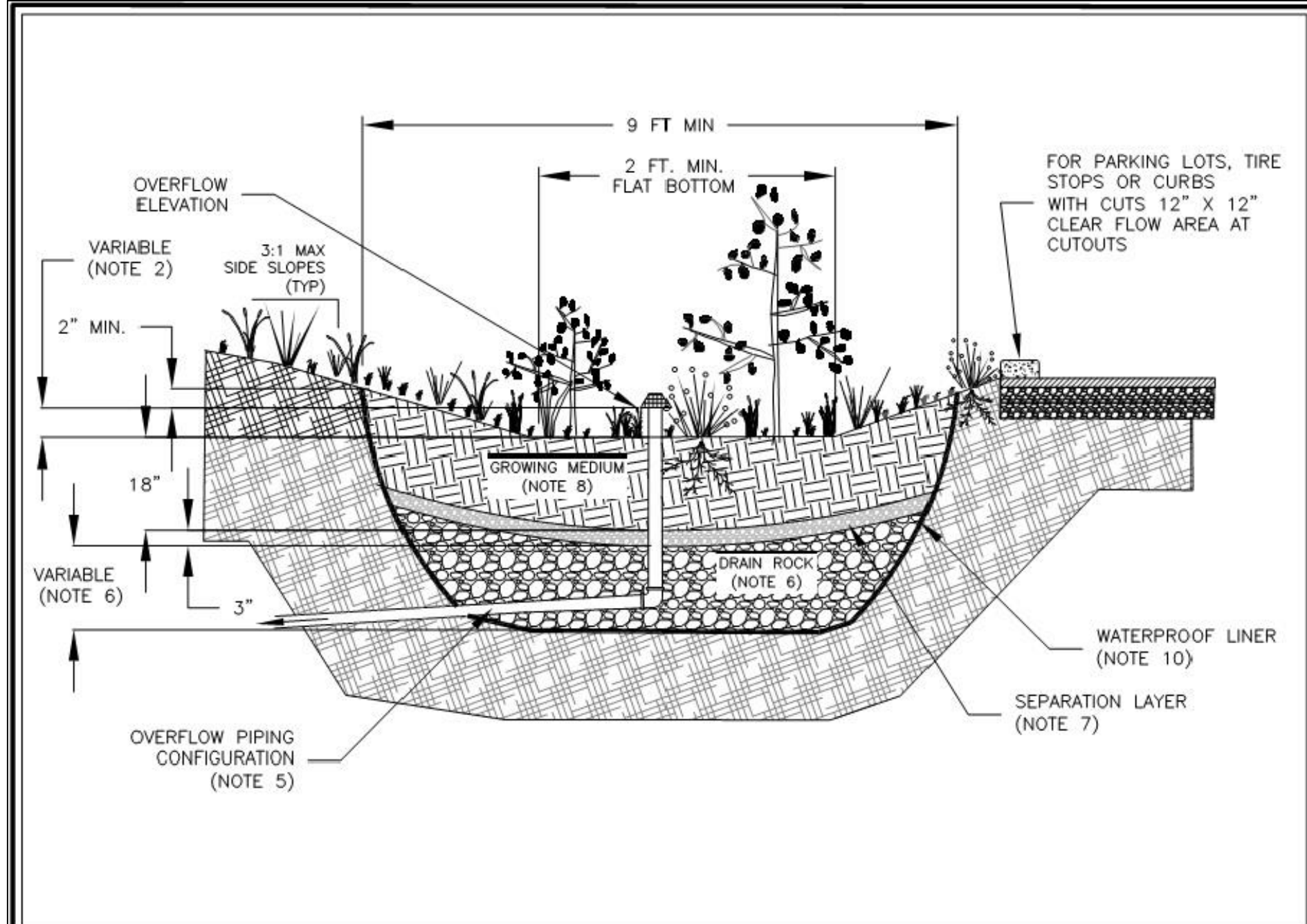


NOTE:  
LOCATE PLANTS SPACED EQUAL DISTANCE (D)  
FROM EACH OTHER AS SPECIFIED AND  
MINIMUM OF 12" FROM SPRINKLER HEAD



GROUNDCOVER PLANTING DETAIL

N.T.S.



NOTES:

1. PROVIDE PROTECTION FROM ALL VEHICLE TRAFFIC, EQUIPMENT STAGING, AND FOOT TRAFFIC IN PROPOSED INFILTRATION AREAS PRIOR TO, DURING, AND AFTER CONSTRUCTION.
2. DIMENSIONS:  
A. WIDTH: 9 FT. MINIMUM.  
B. DEPTH OF RAIN GARDEN (MEASURED FROM TOP OF GROWING MEDIUM TO OVERFLOW ELEVATION):  
1)SIMPLIFIED 12"  
2)ENGINEERED 6"-18"  
C. SLOPE OF PLANTER: 0.5% OR LESS
3. SETBACKS (FROM NEAREST POINT AT FINISHED GRADE):  
A. INFILTRATION-10 FT. FROM FOUNDATIONS  
B. FILTRATION MUST BE LINED, NO SETBACK REQUIREMENT FROM FOUNDATIONS  
C. SETBACKS FROM PROPERTY LINES VARY DEPENDING ON SITE CONDITIONS (SEE DESIGN STANDARDS)
4. OVERFLOW:  
A. INLET ELEVATION MUST ALLOW FOR 2" OF FREEBOARD, MINIMUM  
B. PROTECT FROM DEBRIS AND SEDIMENT WITH STRAINER OR GRATE
5. PIPING:  
SEE STANDARD PLAN 221
6. DRAIN ROCK:  
A. 1 1/2"-3/4" WASHED AGGREGATE WITH 40% VOIDS  
B. DEPTH:  
SIMPLIFIED- 18" (IF ≤ 1.75 "/hr INFILTRATION RATE)  
12" (IF > 1.75 "/hr INFILTRATION RATE)  
ENGINEERED- 0"-48"
7. SEPARATION BETWEEN DRAIN ROCK AND GROWING MEDIUM SHALL BE A 3" LAYER OF 3/4"-1/2" OPEN GRADED AGGREGATE.
8. GROWING MEDIUM:  
A. DEPTH: 18"  
B. SEE DESIGN STANDARDS FOR REQUIREMENTS
9. VEGETATION: FOLLOW LANDSCAPE PLANS OR REFER TO PLANTING REQUIREMENTS IN DESIGN STANDARDS.
10. FOR FILTRATION RAIN GARDEN INSTALL 30 mil. PVC, HDPE OR EQUIVALENT WATERPROOF LINER(SEE STANDARD PLAN #221).
11. INSTALL RIVER ROCK SPLASH PAD TO TRANSITION FROM INLETS TO GROWING MEDIUM.

CITY OF SALEM DEPARTMENT OF PUBLIC WORKS			
STANDARD PLAN RAIN GARDEN			
APPROVED		1/01/14	DRAWN BY KAK 12/2013
	CITY ENGINEER	DATE	CHECKED BY KR 12/2013
			NO. 217

CITY OF SALEM, DIVISION 004, APPENDIX B (PLANTING LIST FOR STORMWATER FACILITIES:

4B.4—Planting, Landscape, and Irrigation Requirements

The vegetation used in GSI facilities may also be used to meet other landscape requirements of the project. Stormwater facilities with vegetative plantings must meet the following requirements:

- (a) For all facilities located in riparian corridors and Public Stormwater Facilities, all plants shall be appropriate native species from the plant list contained in this appendix. For private stormwater facilities, non-native plant varieties may be used which are suitable for the planting zone where located in the facility.
- (b) Plants will be inspected and accepted or rejected at the end of construction when the project is substantially complete.
- (c) Establishment maintenance procedures, such as control of invasive weeds, animal and vandal damage, mulching, re-staking, watering, and mesh or tube protection replacement, shall be noted on the plans as needed to ensure plant survival.
- (d) Stormwater facilities located in the ROW are not permitted to use evergreen trees to meet landscaping requirements. Street trees in the ROW shall be located outside of planters whenever possible. If street trees are placed in planters, the minimum width of the facility is four feet.
- (e) Selected plant materials should be appropriate for soil, hydrologic, and other facility and site conditions. The density of plantings shall be consistent with the requirements listed in this appendix. The intent is for the plants to be dense enough when mature to minimize the growth of weeds and invasive species and reduce the amount of needed maintenance.
- (d) The planting design shall minimize the need for herbicides, fertilizers, or pesticides at any time before, during, after construction, and on a long-term basis.
- (e) Plants shall be selected and planted to minimize the need for mowing, pruning, and irrigation.
- (f) Certified weed-free native grass or native wildflower seed shall be applied at the rates specified by the supplier. If plant establishment cannot be achieved with seeding by the time construction of the stormwater facility has been completed, the design shall provide for planting the area with wildflower sod, plugs, container plants, or other methods to establish the vegetation and protect the facility against erosion before water is allowed to enter the facility.
- (g) A temporary irrigation system must be included in the design of each facility to be used until the plants are fully established, generally two to three years. Public stormwater facilities shall be designed so permanent, long-term irrigation systems are not needed.
- (h) All plantings in and adjacent to the ROW shall be appropriate for the area and not interfere with vision and sight clearance requirements. Plants that will not become a nuisance by growing over the public sidewalks shall be selected.
- (i) Growing medium shall be placed at a minimum depth of 12 inches over native soil, unless otherwise noted in the Standard Plans. See Appendix 4G—Key Material Specifications for details on topsoil, organic soil amendment, and growing medium requirements.
- (j) A two-inch layer of pea gravel (not bark dust or bark chips) shall be specified over the growing medium between the plantings in Planting Zone 1. Organic mulch such as straw, bark, sawdust, or compost shall be placed at a depth of two to three inches above the high water mark, in Planting Zones 2 or 3. Organic mulch shall not be placed such that it may enter waterways or clog inlets/outlets.

REVISIONS		
REV.	DATE	DESCRIPTION

SHEET NAME:  
DETAILS & NOTES

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JOB NO.:	1925