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ABBREVIATIONS:

COS CITY OF SEATTLE

CSO COMBINED SEWER OVERFLOW

GPM GALLONS PER MINUTE
PVC POLYVINYL CHLORIDE

SF SQUARE FEET

- RAINWISE SIZING AND REBATE TABLES AND CISTERN REBATE CALCULATOR https://rainwise.seattle.gov/city/seattle/contractor_corner
- SEATTLE STORMWATER MANUAL http://www.seattle.gov/dpd/codes/dr/dr2009-17.pdf
- RAIN GARDEN HANDBOOK FOR WESTERN WASHINGTON https://fortress.wa.gov/ecy/publications/publications/1310027.pdf
- SEATTLE GREEN FACTOR PLANT LIST http://www.seattle.gov/dpd/cs/groups/pan/@pan/documents/web_informational/dpds021347.pdf
- SEATTLE RIGHT-OF-WAY IMPROVEMENTS MANUAL http://www.seattle.gov/transportation/rowmanual/manual/
- SEATTLE STANDARD SPECIFICATIONS
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- SEATTLE STANDARD PLANS http://www.seattle.gov/util/Engineering/Standard_Plans_&_Specs/
- SEATTLE SIDE SEWER PERMIT REQUIREMENTS http://www.seattle.gov/dpd/permits/permittypes/sidesewer/
- SEATTLE DIRECTOR'S RULES
 http://web6.seattle.gov/dpd/dirrulesviewer/
- SEATTLE LAND USE CODE http://www.seattle.gov/dpd/codesrules/codes/landuse/





RAINWISE GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE 2014 CITY OF SEATTLE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION THE CITY OF SEATTLE STANDARD PLANS, 2011 EDITION; CITY OF SEATTLE DIRECTORS RULES: 5-2009, 4-2001, 15-2009, 16-2009, 17-2009, 18-2009; AND CODES ADOPTED BY REFERENCE INCLUDING THE SEATTLE BUILDING CODE AND SEATTLE FIRE CODE.
- 2. IN ACCORDANCE WITH SECTIONS 4.2.5, 6.4.2, AND 6.3 OF DIRECTORS' RULES: 2009-005 SPU AND 17-2009 DPD THE OVERFLOW CONVEYANCE MUST SAFELY CONVEY THE 25-YEAR STORM.
- 3. ALL CONVEYANCE PIPE DOWNSTREAM OF THE EXISTING DOWNSPOUT MUST MEET RAINWISE REQUIREMENTS.
- 4. DOWNSPOUT TO RAIN GARDEN PIPES SHALL BE A MINIMUM OF 3-INCHES IN DIAMETER. SEE SHEET 3 FOR COMPLETE SIZING REQUIREMENTS.
- RAIN GARDEN OVERFLOW PIPES SHALL BE A MINIMUM OF 4-INCHES IN DIAMETER. SEE SHEET 7 FOR COMPLETE SIZING REQUIREMENTS.
- CISTERN OVERFLOW PIPES SHALL BE A MINIMUM OF 3-INCHES IN DIAMETER. SEE SHEET 10 FOR COMPLETE SIZING REQUIREMENTS.
- 7. CISTERNS WITH HIGH TIPPING POTENTIAL SHALL BE RESTRAINED TO PREVENT OVERTURNING.
- 8. PIPES IN CONTACT WITH GROUND SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL.
- 9. PIPES NOT IN CONTACT WITH THE GROUND SHALL BE PVC SCHEDULE 40, SDR 35, OR ABS.
- 10. PIPES NOT FULLY BURIED SHALL BE ANCHORED TO RESIST MOVEMENT.
- 11. PER UPC 2.3.3 PIPES SHALL NOT BE EXPOSED TO DIRECT SUNLIGHT. PIPES MAY BE PAINTED BY HOMEOWNERS IF THE HOMEOWNER AGREES, IN WRITING, TO PERFORM SUCH WORK.
- 12. PER UPC 2.5.2 PIPES SHALL BE SUPPORTED EVERY 4-FEET HORIZONTAL, AT CHANGES IN DIRECTION, AND EVERY EIGHT VERTICAL FEET.
- 13. ROOF DRAINAGE GREATER THAN 2,000 SQUARE FEET **REQUIRES CONSULTATION WITH RAINWISE INSPECTOR.**
- 14. FLOW CONTROL OUTLET MUST REMAIN OPEN DURING THE WET SEASON (SEPTEMBER TO MAY).

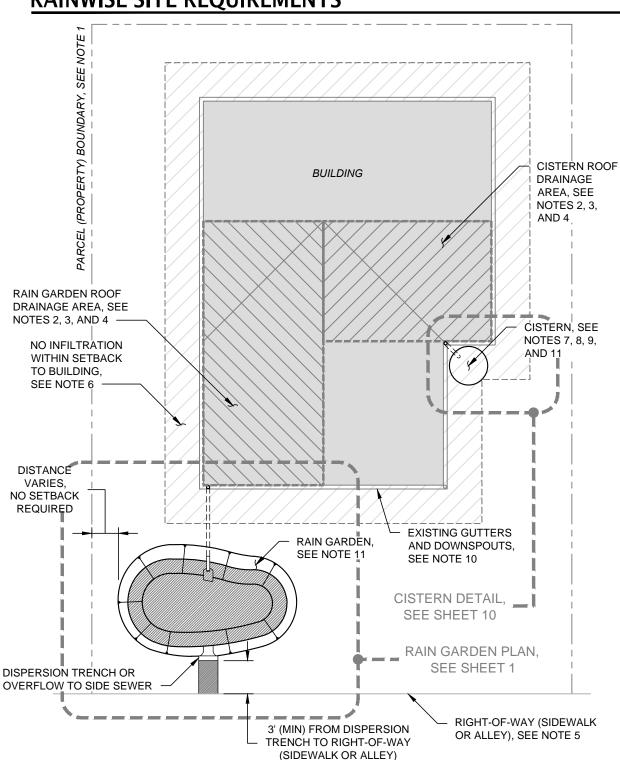
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RAINWISE SITE REQUIREMENTS:

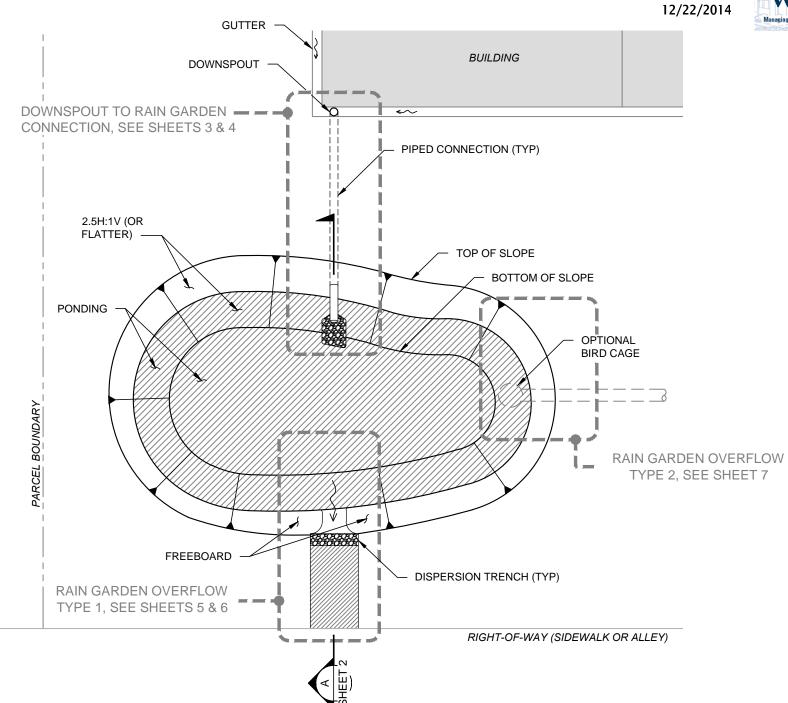
- SUBJECT PARCEL MUST BE IN A QUALIFYING CSO BASIN.
- 2. A MINIMUM OF 400 SQUARE FEET OF ROOF DRAINAGE AREA MUST BE COLLECTED AND CONVEYED TO RAIN GARDEN OR CISTERN TO QUALIFY FOR REBATE.
- ROOF DRAINAGE GREATER THAN 2,000 SQUARE FEET REQUIRES CONSULTATION WITH RAINWISE INSPECTOR.
- 4. PROJECTS INFILTRATING MORE THAN 2,000 SQUARE FEET OF IMPERVIOUS SURFACE MUST ADHERE TO THE SEATTLE STORMWATER MANUAL.
- NO MORE THAN 1,000 SQUARE FEET OF CONTRIBUTING IMPERVIOUS SURFACE MAY OVERFLOW TO CITY SIDEWALK AT A SINGLE LOCATION. SYSTEMS IN EXCESS OF 1,000 SQUARE FEET SHALL HAVE TWO OR MORE OVERFLOWS (AS NECESSARY), EACH SEPARATED BY A DISTANCE OF 10 FEET OR MORE.
- 6. INFILTRATION PROHIBITED WITHIN 5 FEET OF FOUNDATION WALL FOR DWELLING WITHOUT BASEMENT AND WITHIN 10 FEET OF FOUNDATION WALL FOR DWELLING WITH BASEMENT UP TO 5 FEET DEEP. FOR BASEMENTS DEEPER THAN 5 FEET, INFILTRATION PROHIBITED WITHIN A DISTANCE OF 2 TIMES THE BASEMENT DEPTH MEASURED FROM FOUNDATION WALL. CONVEYANCE WITHIN THIS SETBACK MUST BE IMPERVIOUS (I.E., LINED OR PIPED).
- QUALIFYING CISTERNS MUST BE A MINIMUM OF 200 GALLONS, HAVE A 1/4 INCH DIAMETER LOW FLOW ORIFICE, AND A MINIMUM HEAD OF 3.0 FEET.
- ROUTE CISTERN OVERFLOWS TO RAIN GARDEN, RIGHT-OF-WAY, OR SANITARY SEWER.
- CISTERN SITING SHALL CONFORM TO SETBACK AND YARD REQUIREMENTS SET FORTH IN SEATTLE LAND USE CODE. FOR SINGLE FAMILY RESIDENTIAL APPLICATIONS, SEE SECTION 23.44.014: YARDS.
- 10. REMOVE DOWNSPOUT PIPING AND PLUG AND SEAL GUTTER INLETS AT ALL ABANDONED DOWNSPOUT LOCATIONS.
- 11. FOR RAIN GARDEN AND CISTERN SIZING, REFER TO RAINWISE SIZING TABLES.

- RAINWISE SIZING AND REBATE TABLES AND CISTERN REBATE CALCULATOR https://rainwise.seattle.gov/city/seattle/contractor_corner
- SEATTLE LAND USE CODE http://www.seattle.gov/dpd/codesrules/codes/landuse/

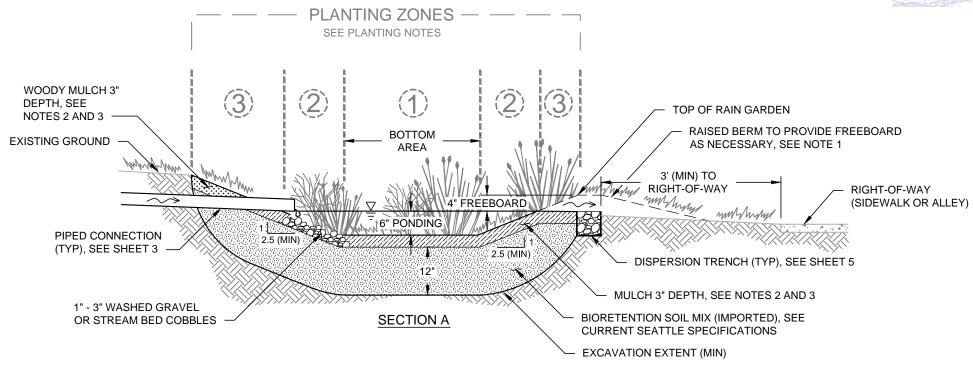












PLANTING NOTES:

- REFER TO THE RAIN GARDEN HANDBOOK FOR WESTERN WASHINGTON AND THE SEATTLE GREEN FACTOR PLANT LIST FOR GUIDANCE ON PLANT SELECTION SITING AND SPACING BY ZONE.
- PLANT MATERIAL MUST BE PERENNIAL AND ADAPTED TO THE CONDITIONS ENCOUNTERED IN ITS LOCATION IN THE RAIN GARDEN.
- EVERGREEN AND DECIDUOUS VEGETATION MAY BE USED BUT THE MAJORITY OF MATERIAL MUST PROVIDE A SIGNIFICANT ABOVE GROUND PRESENCE YEAR ROUND.
- PLANT MATERIAL MUST BE OF A SUFFICIENT DENSITY TO ACHIEVE A MINIMUM OF 80% CANOPY COVER AFTER THE 3 YEAR ESTABLISHMENT PERIOD.
- RAIN GARDEN PLANTING DESIGN SHOULD MINIMIZE COMPACTION OF BIORETENTION SOIL THROUGH PLANNED ACCESS. ANNUAL PLANTS REQUIRING SOIL DISTURBANCE FOR HARVESTING (E.G., CARROTS) OR YEARLY REPLANTING ARE NOT PERMITTED.

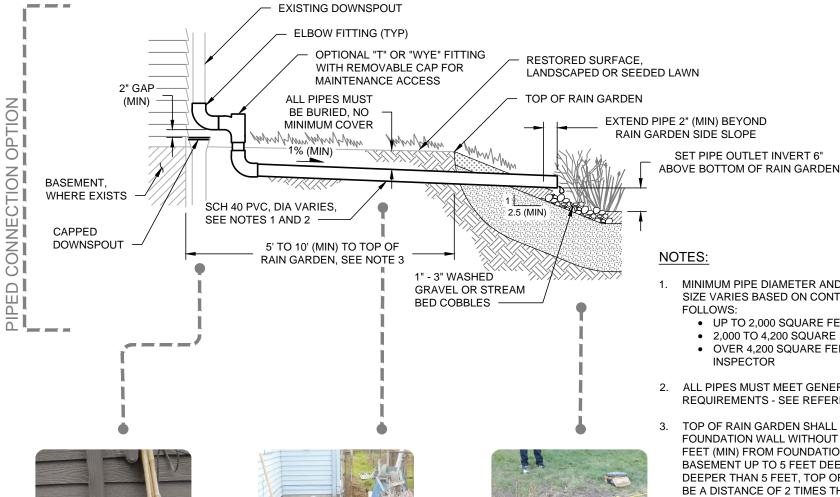
NOTES:

- RAISED BERM SHALL BE FIRM, UNDISTURBED, NON-YIELDING NATIVE SOIL OR DISTURBED SITE SOILS COMPACTED WITH 12 POUND HAND TAMPER IN 3 INCH LIFTS. IF SITE SOILS ARE SANDY, CONSIDER IMPORTING DENSER, NON-PERMISSIVE SOILS FOR RAISED BERM.
- 2. WOODY MULCH PREFERRED, ROCK MULCH OR BARK CHIP MULCH NOT PERMITTED.
- 3. MULCH SHALL COMPLY WITH REQUIREMENTS FOR "COARSE MULCH" SET FORTH IN SEATTLE STANDARD SPEC 9-14.4 (8) FOR WET SEASON CONSTRUCTION.
- 4. ROCK MULCH / DRY STREAMS ARE NOT PERMITTED WITHIN THE RAIN GARDEN.

- RAIN GARDEN HANDBOOK FOR WESTERN WASHINGTON
 http://www.seattle.gov/util/groups/public/@spu/@usm/documents/webcontent/02_008087.pdf
- SEATTLE GREEN FACTOR PLANT LIST http://www.seattle.gov/dpd/cs/groups/pan/@pan/documents/web_informational/dpds021347.pdf
- SEATTLE RIGHT-OF-WAY IMPROVEMENTS MANUAL http://www.seattle.gov/transportation/rowmanual/manual/
- SEATTLE STANDARD SPECIFICATIONS
 http://www.seattle.gov/util/engineering/standard_plans_&_specs

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- 1. MINIMUM PIPE DIAMETER AND ASSOCIATED FITTING SIZE VARIES BASED ON CONTRIBUTING AREA AS FOLLOWS:
 - UP TO 2,000 SQUARE FEET: 3 INCH DIAMETER
 - 2,000 TO 4,200 SQUARE FEET: 4 INCH DIAMETER
 - OVER 4,200 SQUARE FEET: CONSULT RAINWISE **INSPECTOR**
- 2. ALL PIPES MUST MEET GENERAL PIPING REQUIREMENTS - SEE REFERENCE SHEET B.
- 3. TOP OF RAIN GARDEN SHALL BE 5 FEET (MIN) FROM FOUNDATION WALL WITHOUT BASEMENT AND 10 FEET (MIN) FROM FOUNDATION WALL WITH BASEMENT UP TO 5 FEET DEEP. FOR BASEMENTS DEEPER THAN 5 FEET, TOP OF RAIN GARDEN SHALL BE A DISTANCE OF 2 TIMES THE BASEMENT DEPTH FROM FOUNDATION WALL.



ELBOW FITTINGS AND CAPPED DOWNSPOUT AT **EXISTING DOWNSPOUT**

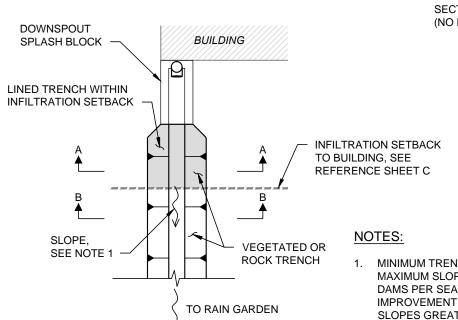


DOWNSPOUT TO RAIN GARDEN PIPED CONNECTION



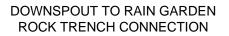
WASHED GRAVEL OR STREAM BED COBBLES AT PIPE OUTLET





SECTION B (NO LINER)

SECTION A (LINER)

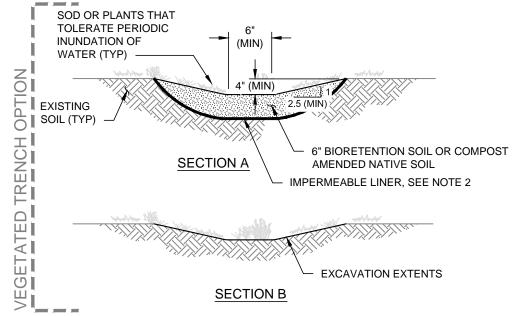


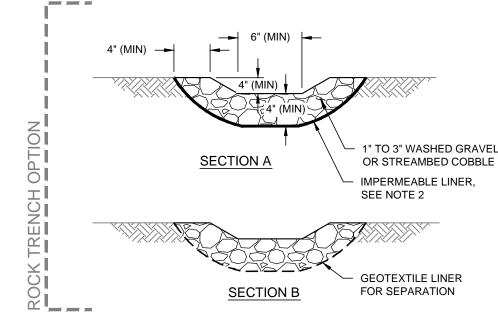


DOWNSPOUT TO RAIN GARDEN VEGETATED TRENCH CONNECTION

- MINIMUM TRENCH SLOPE SHALL BE 1%.
 MAXIMUM SLOPE SHALL BE 4%. INSTALL CHECK
 DAMS PER SEATTLE RIGHT-OF-WAY
 IMPROVEMENT MANUAL (FIGURE 6-20) FOR
 SLOPES GREATER THAN 4%.
- IMPERMEABLE LINER SHALL COMPLY WITH REQUIREMENTS FOR "DITCH LINER" SET FORTH IN SEATTLE STANDARD SPEC 9-37.2, TABLE 4.

- SEATTLE RIGHT-OF-WAY IMPROVEMENTS MANUAL http://www.seattle.gov/transportation/rowmanual/manual/
- SEATTLE STANDARD SPECIFICATIONS
 http://www.seattle.gov/util/engineering/standard_plans_&_specs







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6" PONDING

RAIN GARDEN ROCK OR VEGETATED TRENCH, SEE SHEET 4 OVERFLOW AREA RIGHT-OF-WAY

NOTES:

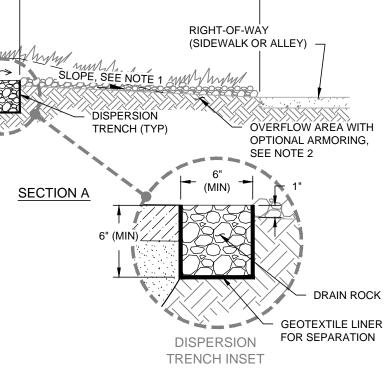
- MINIMUM OVERFLOW AREA SLOPE SHALL BE 1%. MAXIMUM SLOPE SHALL BE 4%. INSTALL CHECK DAMS PER SEATTLE RIGHT-OF-WAY MANUAL (FIGURE 6-20) FOR SLOPES GREATER THAN 4%.
- OVERFLOW AREA SHALL BE VEGETATED OR ARMORED WITH 1 INCH TO 3 INCH WASHED GRAVEL OR STREAM BED COBBLES.

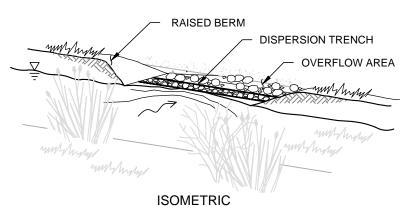
REFERENCE MATERIALS:

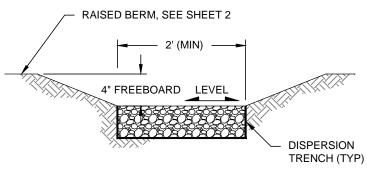
 SEATTLE RIGHT-OF-WAY IMPROVEMENTS MANUAL http://www.seattle.gov/transportation/rowmanual/manual/



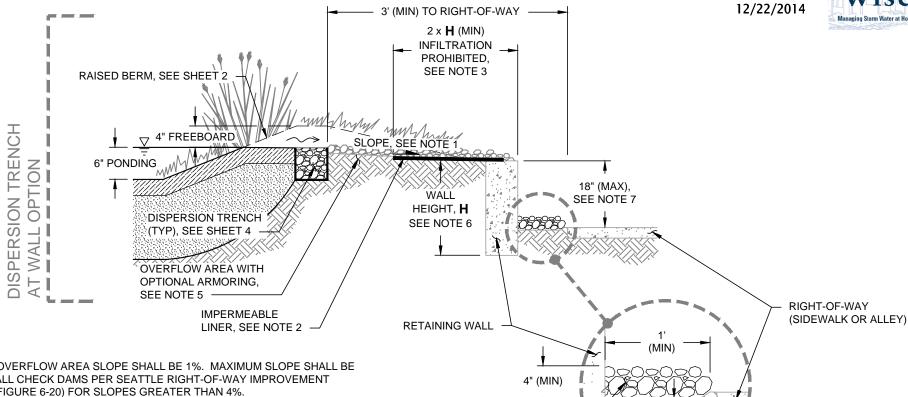
DISPERSION TRENCH WITH OVERFLOW ARMORING







RAINWISE DETAILS



- 1. MINIMUM OVERFLOW AREA SLOPE SHALL BE 1%. MAXIMUM SLOPE SHALL BE 4%. INSTALL CHECK DAMS PER SEATTLE RIGHT-OF-WAY IMPROVEMENT MANUAL (FIGURE 6-20) FOR SLOPES GREATER THAN 4%.
- IMPERMEABLE LINER SHALL COMPLY WITH REQUIREMENTS FOR "DITCH LINER" SET FORTH IN SEATTLE STANDARD SPEC 9-37.2, TABLE 4.
- 3. INFILTRATION PROHIBITED WITHIN A DISTANCE OF 2 TIMES THE WALL HEIGHT, H, OF A RETAINING WALL AS MEASURED FROM THE FACE OF THE WALL.
- GRAVEL OR COBBLES SHALL BE SET 1 INCH (MIN) ABOVE BOTTOM OF SIDEWALK SLAB TO AVOID UNDERMINING SIDEWALK.
- OVERFLOW AREA SHALL BE VEGETATED OR ARMORED WITH 1 INCH TO 3 INCH WASHED GRAVEL OR STREAM BED COBBLES.
- RETAINING WALL HEIGHT MEASURED FROM TOE OF WALL TO TOP OF WALL.
- 7. FOR DISCHARGE OVER RETAINING WALLS. MAXIMUM ALLOWABLE DROP FROM TOP OF WALL TO RIGHT-OF-WAY SURFACE IS 18 INCHES.

REFERENCE MATERIALS:

- SEATTLE RIGHT-OF-WAY IMPROVEMENTS MANUAL http://www.seattle.gov/transportation/rowmanual/manual/
- SEATTLE STANDARD SPECIFICATIONS http://www.seattle.gov/util/ engineering/standard plans & specs



1" TO 3" WASHED GRAVEL OR STREAM BED COBBLES

OVERFLOW AREA WITH ARMORING (VIEW FROM RIGHT-OF-WAY)



" (MIN).

SEE NOTE 4

OVERFLOW ARMORING

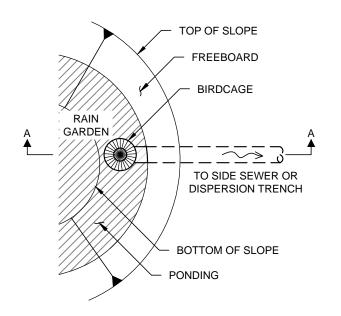
AT SIDEWALK INSET

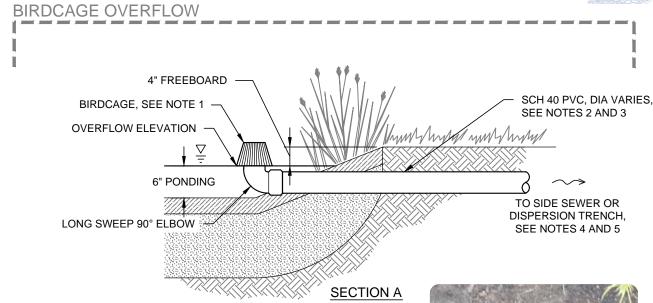
OVERFLOW AREA WITH ARMORING (VIEW FROM RAIN GARDEN)

NOTES:



RAINWISE DETAILS 12/22/2014





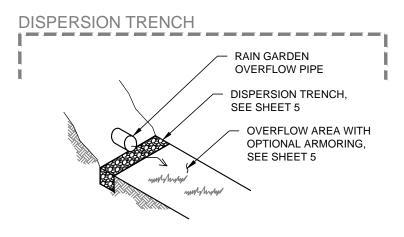
NOTES:

- 1. BIRDCAGE MUST BE MADE OF UV STABILIZED MATERIAL.
- MINIMUM PIPE DIAMETER AND ASSOCIATED FITTING SIZE VARIES BASED ON CONTRIBUTING AREA AS FOLLOWS:
 - UP TO 4,200 SQUARE FEET: 4 INCH DIAMETER
 - OVER 4,200 SQUARE FEET: CONSULT RAINWISE INSPECTOR
- ALL PIPES MUST MEET GENERAL PIPING REQUIREMENTS SEE REFERENCE SHEET B.
- CONNECTIONS TO SIDE SEWER REQUIRE A SEPARATE SIDE SEWER PERMIT AND INSPECTION.
- ALL CONNECTIONS TO A SIDE SEWER SHALL COMPLY WITH REQUIREMENTS FOR DESIGN AND CONSTRUCTION OF DRAINAGE WATER DISCHARGES SET FORTH IN DIRECTOR'S RULES 4-2011 AND 5-2011 AND SIDE SEWER INSTALLATION REQUIREMENTS SET FORTH IN SEATTLE STANDARD PLAN NO. 283.

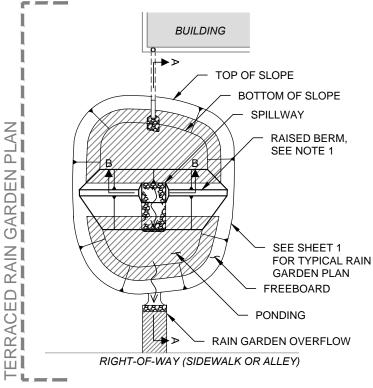
- SEATTLE SIDE SEWER PERMIT REQUIREMENTS: http://www.seattle.gov/dpd/permits/permittypes/sidesewer/default.htm
- SEATTLE DIRECTOR'S RULES: http://web6.seattle.gov/dpd/dirrulesviewer/
- SEATTLE STANDARD PLANS: http://www.seattle.gov/util/Engineering/Standard_Plans_&_Specs/



BIRDCAGE OVERFLOW









TERRACED RAIN GARDENS

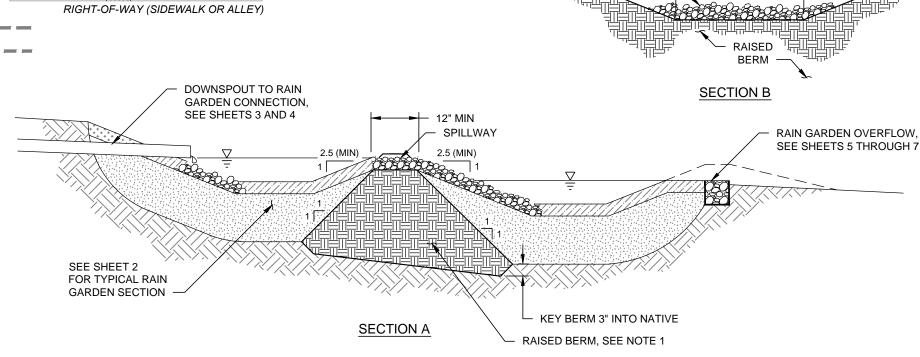
SPILLWAY WITH

ARMORING, SEE NOTE 2

- RAISED BERM SHALL BE FIRM, UNDISTURBED, NON-YIELDING NATIVE SOIL OR DISTURBED SITE SOILS COMPACTED WITH 12 POUND HAND TAMPER IN 3 INCH LIFTS. IF SITE SOILS ARE SANDY, CONSIDER IMPORTING DENSER, NON-PERMISSIVE SOILS FOR RAISED BERM.
- ARMOR SPILLWAY WITH 1 INCH TO 3 INCH WASHED GRAVEL OR STREAMBED COBBLES.

2' (MIN)

LEVEL



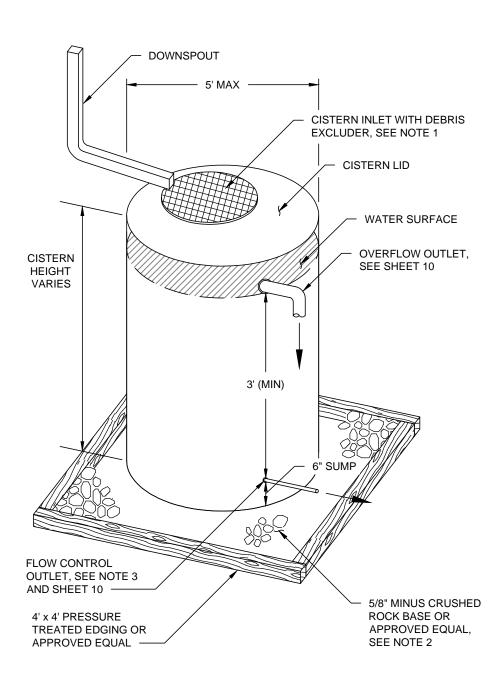
GARDEN SECTION

CED

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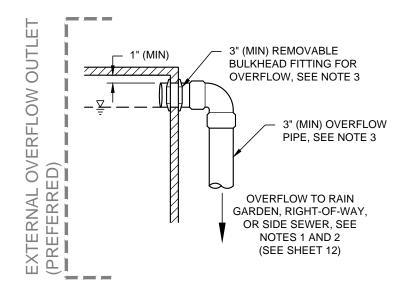


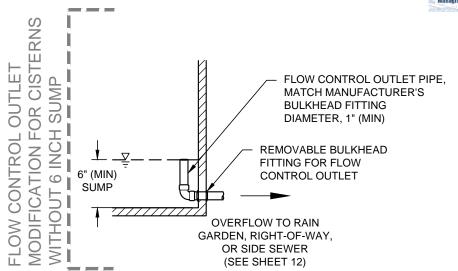
- PROVIDE DEBRIS EXCLUDER WITH 1/16 INCH MINIMUM SCREEN CAPACITY AT CISTERN INLET.
- 2. CRUSHED ROCK BASE SHALL BE COMPACTED WITH 12 POUND HAND TAMPER TO FORM LEVEL, NON-YEILDING BASE FOR CISTERN. EXTEND BASE BEYOND EDGE OF CISTERN. BASE DIMENSIONS WILL VARY BY CISTERN.
- 3. FLOW CONTROL OUTLET SHALL INCLUDE A UNIFORM 1/4 INCH DIAMETER INSPECTABLE AND CLEANABLE ORIFICE. NO ADDITIONAL VALVES OR FLOW RESTRICTOR PERMITTED DOWNSTREAM OF FLOW CONTROL OUTLET. SEE SHEET 13 FOR AN EXAMPLE CONFIGURATION.

GENERAL NOTES:

- A. ALL ENTRIES MUST BE SECURED AS TO BE CHILD PROOF.
- B. CISTERNS WITH HIGH TIPPING POTENTIAL SHALL BE RESTRAINED TO PREVENT OVERTURNING.
- C. SYSTEM MUST BE DESIGNED TO PROVIDE ACCESS AND EGRESS TO CISTERN AND CISTERN FITTINGS FOR CLEANING AND REMOVAL OF SEDIMENT AND ALGAE. ACCESS SHALL BE THROUGH REMOVABLE LID OR 6 INCH (MINIMUM) INSPECTION PORT. CLEANOUT SHALL BE PROVIDED AT BOTTOM OF TANK (VIA BOTTOM BULKHEAD FITTING).
- D. CISTERNS OVER 6.5 FEET TALL OR WITH STORAGE CAPACITY GREATER THAN 1,100 GALLONS REQUIRE CONSULTATION WITH RAINWISE INSPECTOR.
- E. ALL CISTERN PIPING MATERIALS SHALL BE RIGID. 12 LINEAR INCHES OF 2 INCH (MAXIMUM) DIAMETER FLEXIBLE PIPE MAY BE USED TO CONNECT TERMINUS OF FLOW CONTROL OUTLET TO OVERFLOW PIPING.
- F. OVERFLOW AND LOW FLOW PIPE CONFIGURATIONS (FITTINGS AND PIPE LENGTH) MAY VARY BY CISTERN. PIPE SUPPORT TO BE PROVIDED WITHIN 2 FEET OF UNIONS AND AT LEAST EVERY 4 FEET OF PIPE RUN. SEE SHEET 10.
- G. PLASTIC CISTERNS MUST BE U.V. STABILIZED. ALL CISTERNS MUST BE NON-COLLAPSABLE, WATERTIGHT, AND OF DURABLE MATERIAL TO PROVIDE A LONG SERVICE LIFE.
- H. TO PREVENT FREEZING DAMAGE, ALL EXPOSED PIPE MUST BE FREE DRAINING.
- PROVIDE WATER TIGHT FITTINGS AT ALL CISTERN CONNECTIONS.
- J. LOCATE CISTERNS TO AVOID OBSTRUCTION OF UTILITIES, WINDOWS, OR OTHER SITE FEATURES THAT REQUIRE REGULAR ACCESS.
- K. SEE REFERENCE SHEET C FOR CISTERN SETBACK REQUIREMENTS.
- L. SEE SHEET 11 FOR DESIGN REQUIREMENTS FOR CISTERNS IN SERIES.





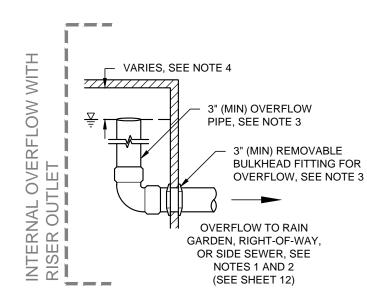


- 1. CONNECTIONS TO SIDE SEWER REQUIRE A SEPARATE SIDE SEWER PERMIT AND INSPECTION.
- ALL CONNECTIONS TO A SIDE SEWER SHALL COMPLY WITH REQUIREMENTS FOR DESIGN AND CONSTRUCTION OF DRAINAGE WATER DISCHARGES SET FORTH IN DIRECTOR'S RULES 4-2011 AND 5-2011 AND SIDE SEWER INSTALLATION REQUIREMENTS SET FORTH IN SEATTLE STANDARD PLAN NO. 283.
- 3. MINIMUM PIPE DIAMETER AND ASSOCIATED FITTING SIZE VARIES BASED ON CONTRIBUTING AREA AS FOLLOWS:
 - UP TO 2,000 SQUARE FEET: 3 INCH DIAMETER
 - 2,000 TO 4,200 SQUARE FEET: 4 INCH DIAMETER
 - OVER 4,200 SQUARE FEET: CONSULT RAINWISE INSPECTOR
- 4. CLEARANCE AT TOP OF OVERFLOW VARIES BASED ON OVERFLOW PIPE DIAMETER AS FOLLOWS:
 - 3 INCH PIPE DIAMETER: PROVIDE 4 INCHES CLEARANCE
 - 4 INCH PIPE DIAMETER: PROVIDE 5 INCHES CLEARANCE

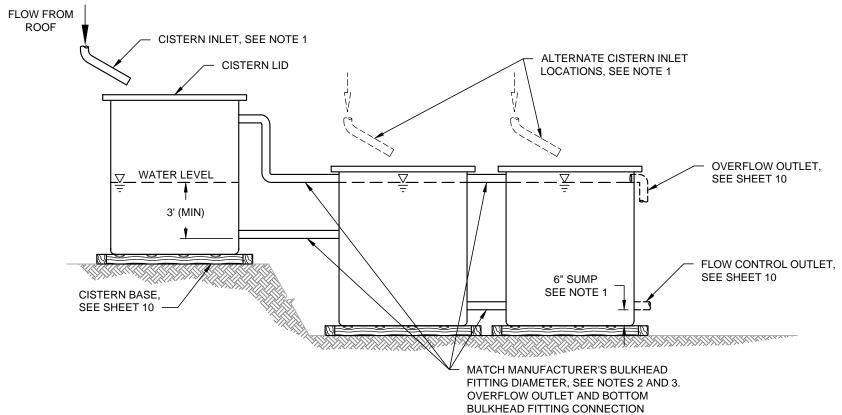
GENERAL NOTE:

A. PROVIDE MODIFIED FLOW CONTROL OUTLET FOR CISTERNS MANUFACTURED WITH SUMPS LESS THAN 6 INCHES.

- SEATTLE SIDE SEWER PERMIT REQUIREMENTS: http://www.seattle.gov/dpd/permits/permittypes/sidesewer/default.htm
- SEATTLE DIRECTOR'S RULES: http://web6.seattle.gov/dpd/dirrulesviewer/
- SEATTLE STANDARD PLANS: http://www.seattle.gov/util/Engineering/Standard_Plans_&_Specs/



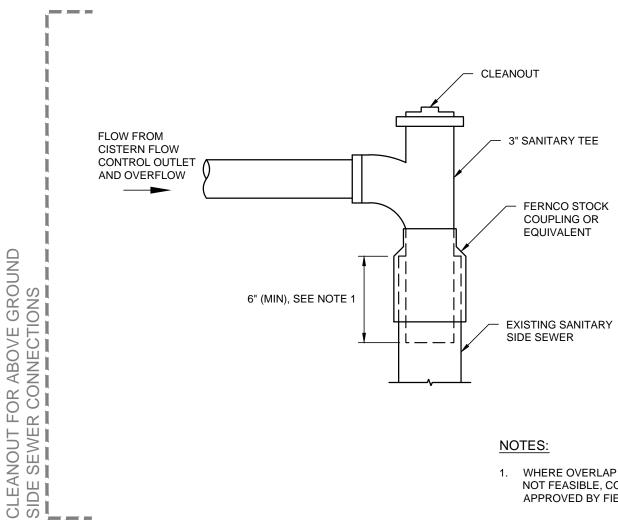




- CISTERN INLET(S) MAY BE CONNECTED TO ANY CISTERN IN THE SERIES PROVIDED A 6 INCH SUMP IS INCLUDED AT THE INLET AND OUTLET CISTERN.
- 2. OVERFLOW OUTLET AND BOTTOM BULKHEAD FITTING CONNECTION SHALL BE PROVIDED FOR EACH CISTERN IN SERIES.
- ALL CONNECTING PIPES SHALL BE ACCESSIBLE FOR MAINTENANCE, FREE DRAINING, AND INSULATED PER REQUIREMENTS ON SHEET 10.







1. WHERE OVERLAP DISTANCE OF 6" IS NOT FEASIBLE, CONNECTION SHALL BE APPROVED BY FIELD ENGINEER.

BELOW GROUND TO SIDE SEWER PER SEATTLE

SIDE SEWER PERMIT



