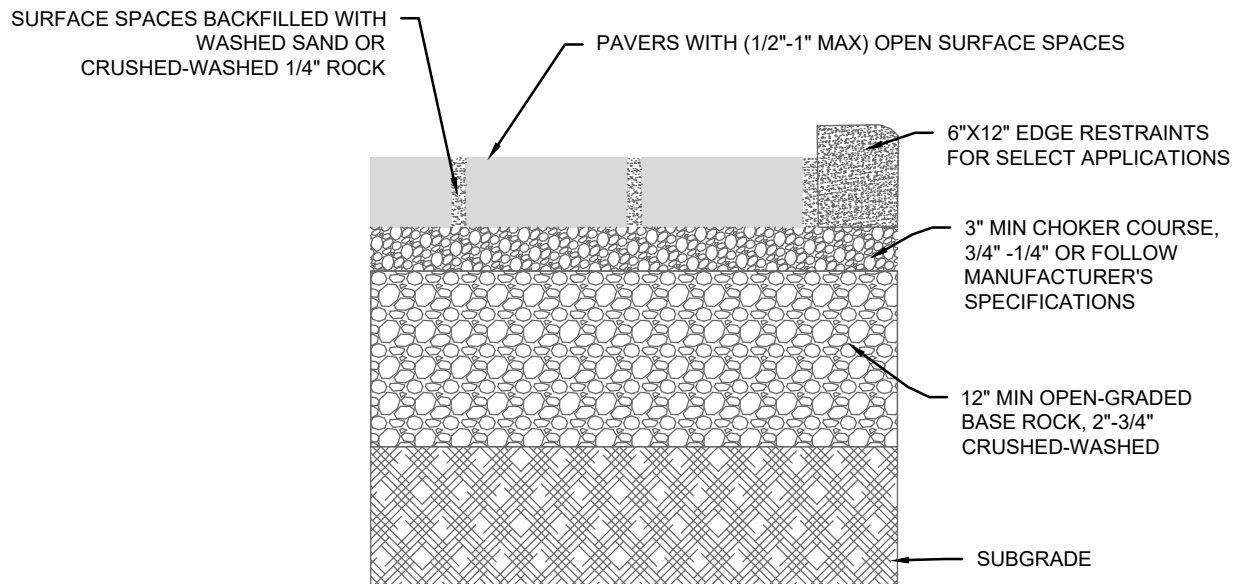
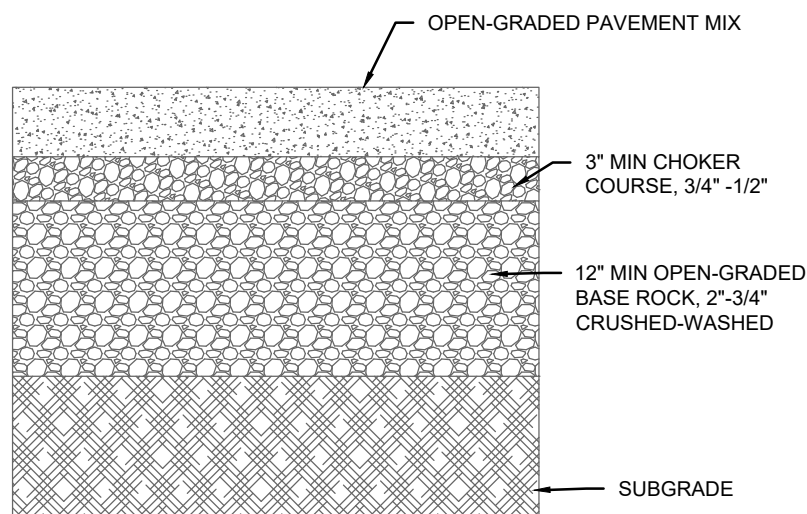


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PERMEABLE CONCRETE BLOCK OR "PAVER" SYSTEMS



PERVIOUS (OPEN GRADED) CONCRETE AND ASPHALT SYSTEMS

DESIGN REQUIREMENTS FOR TOP LIFT DEPTH		
	RESIDENTIAL DRIVEWAY OR PEDESTRIAN ONLY	PRIVATE STREET, PARKING LOT, OR FIRE LANE
CONCRETE	4"	4"
ASPHALT	2 1/2"	3"
PAVERS	2 3/8"	3 1/8"
ENGINEERING REQ'D	NO	YES
COMPACTION REQ'D	NO	95

## POROUS PAVEMENT



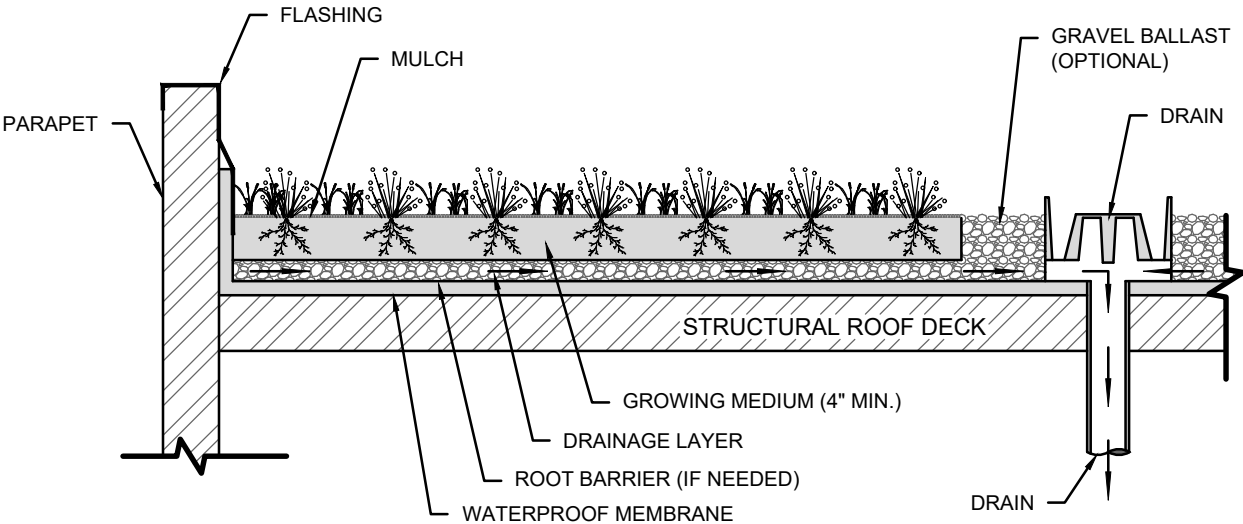
CITY OF  
**West Linn**

DATE: 2025

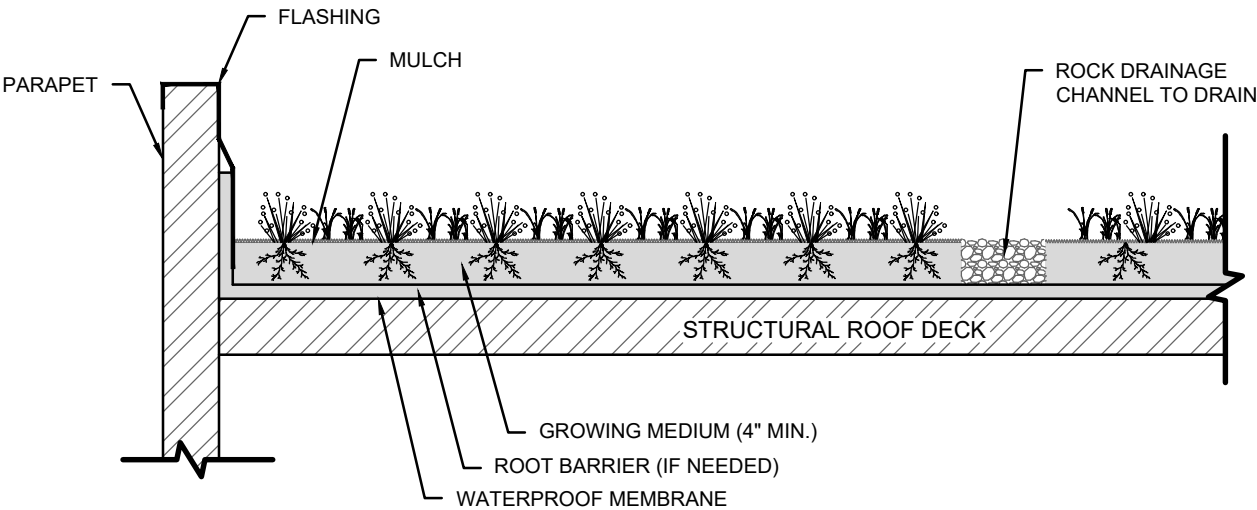
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**WL-STM001**

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ECOROOF WITH DRAINAGE LAYER



ECOROOF WITH DRAINAGE CHANNELS

## ECOROOF

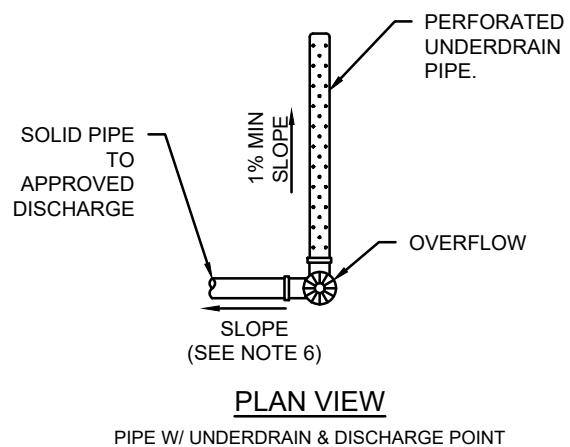
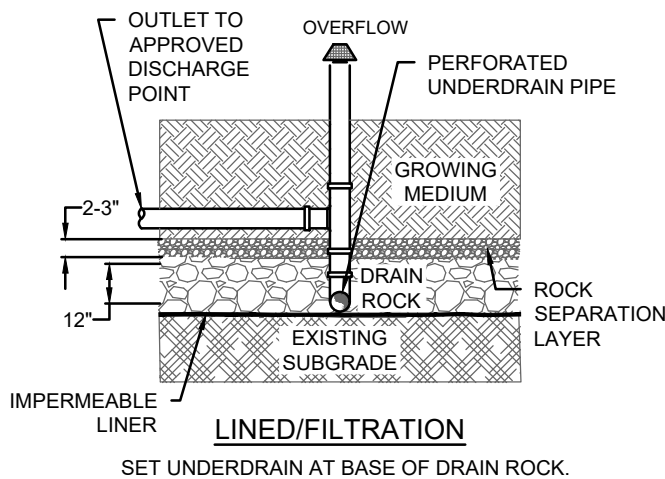
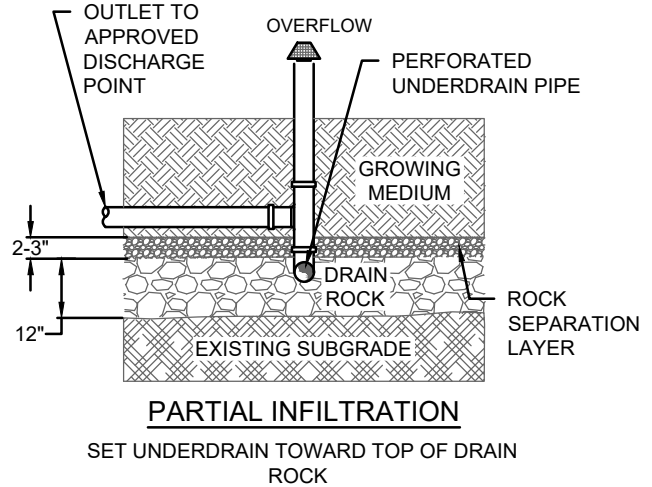
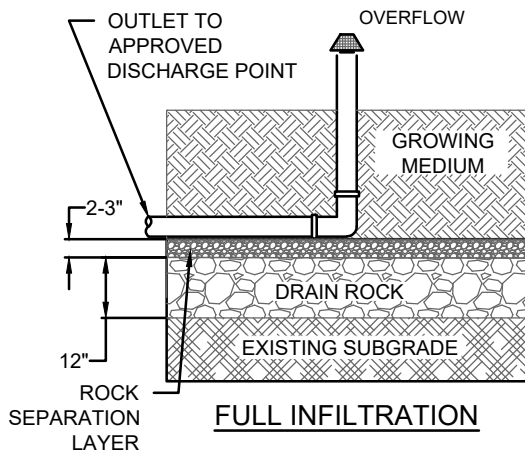


CITY OF  
**West  
Linn**

DATE: 2025

DRAWING NO.  
**WL-STM002**

FILE NO.



1. FOR PARTIAL INFILTRATION FACILITIES, LOCATE UNDERDRAIN AT THE TOP OF THE DRAIN ROCK LAYER. PARTIAL INFILTRATION FACILITIES ARE REQUIRED FOR SITES WITH A DESIGN INFILTRATION RATE LESS THAN 0.5 IN/HR. THE UNDERDRAIN MUST EXTEND THE FULL LENGTH OF THE FACILITY. UNLESS LOCATED IN THE PUBLIC RIGHT OF WAY AND TREES ARE INSTALLED.
2. FOR LINED/FILTRATION FACILITIES, LOCATE UNDERDRAIN AT THE BOTTOM OF THE DRAIN ROCK LAYER. LINED/FILTRATION FACILITIES ARE REQUIRED FOR SITES MEETING INFILTRATION INFEASIBILITY CRITERIA PER SECTION 1 OF THE MANUAL. THE UNDERDRAIN MUST EXTEND THE FULL LENGTH OF THE FACILITY.
3. FACILITIES WITH AN UNDERDRAIN MAY HAVE THE OUTLET PIPE TEE INTO THE OVERFLOW STANDPIPE AT AN ELEVATION ABOVE THE UNDERDRAIN.
4. DRAIN LAYER:  
3/4" - 1 1/2" WASHED ROUND DRAIN ROCK. DEPTH: 12" MINIMUM
5. ROCK SEPARATION LAYER BETWEEN DRAIN ROCK AND GROWING MEDIA  
1/4" - #10 ROCK. DEPTH: 2 TO 3 INCHES
6. PIPING TO COMPLY WITH OPSC WITHIN PRIVATE PROPERTY. WEST LINN PUBLIC WORKS DESIGN STANDARDS SHALL APPLY WITHIN THE RIGHT OF WAY OR PUBLIC UTILITY EASEMENTS.

## FACILITY OVERFLOW CONFIGURATION

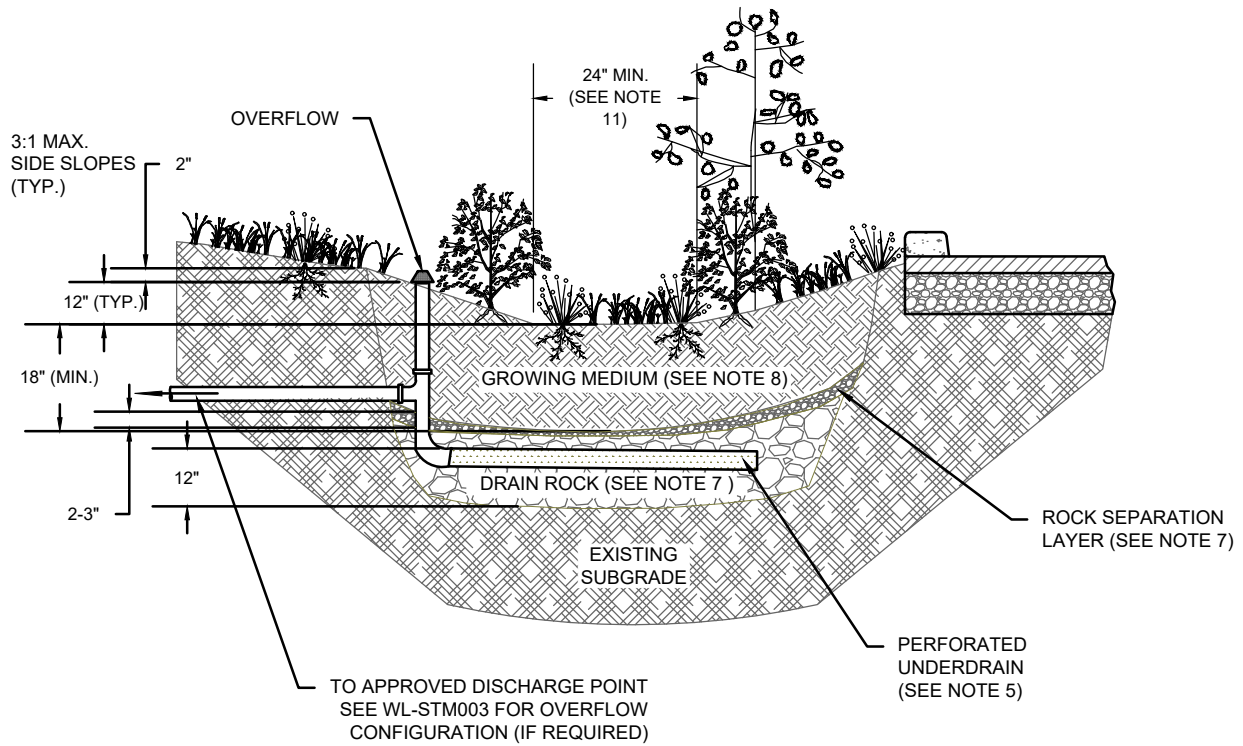


CITY OF  
**West Linn**

DATE: 2025

DRAWING NO.  
**WL-STM003**

FILE NO.



1. PROVIDE PROTECTION FROM ALL VEHICLE TRAFFIC AND EQUIPMENT STAGING IN PROPOSED INFILTRATION AREAS PRIOR TO, DURING, AND AFTER CONSTRUCTION.
2. DIMENSIONS:  
WIDTH AND LENGTH VARY. DIMENSIONS TO BE SPECIFIED ON PLANS.  
PONDING DEPTH (FROM TOP OF GROWING MEDIUM TO OVERFLOW ELEVATION): 12" (TYP.)  
SIDE SLOPES: 3:1 MAXIMUM.
3. SETBACKS:  
5-FEET FROM PROPERTY LINES, AND 10-FEET FROM BUILDING FOUNDATION.
4. OVERFLOW:  
FACILITY MUST CONNECT TO APPROVED DISCHARGE POINT PER DETAIL WL-STM003  
OVERFLOW ELEVATION MUST ALLOW FOR 2" OF FREEBOARD, MINIMUM.  
PROTECT FROM DEBRIS AND SEDIMENT WITH STRAINER OR GRATE.
5. UNDERDRAIN:  
NOT REQUIRED FOR FULL INFILTRATION FACILITY. AT SITES WITH DESIGN INFILTRATION RATE LESS THAN 0.5IN/HR AN UNDERDRAIN IS REQUIRED ALONG THE FULL LENGTH OF THE FACILITY, UNLESS LOCATED IN THE PUBLIC RIGHT OF WAY AND TREES ARE INSTALLED.
6. PIPING TO COMPLY WITH OPSC WITHIN PRIVATE PROPERTY. WEST LINN PUBLIC WORKS DESIGN STANDARDS SHALL APPLY WITHIN THE RIGHT OF WAY OR PUBLIC UTILITY EASEMENTS.
7. DRAIN LAYER:  
3/4" - 1 1/2" WASHED DRAIN ROCK.  
DEPTH: 12" SEPARATION BETWEEN DRAIN ROCK AND GROWING MEDIA 1/4" - #10 ROCK 2 TO 3 INCHES DEEP
8. GROWING MEDIUM:  
18" MINIMUM DEPTH. USE SAND/LOAM/COMPOST 3-WAY MIX, OR APPROVED MIX THAT WILL SUPPORT HEALTHY PLANTS. SEE APPENDIX D.
9. VEGETATION:  
REFER TO PLANTING REQUIREMENTS IN APPENDIX E. THE DELINEATION BETWEEN ZONE A AND B MUST BE EITHER AT THE OVERFLOW ELEVATION OR THE CHECK DAM ELEVATION, WHICHEVER IS LOWEST.
10. SPLASH BLOCK:  
INSTALL 4-6" WASHED RIVER ROCK OR SPLASH PAD FOR EROSION CONTROL AT INLETS AND DOWNSPOUT.
11. LINEAR CONFIGURATION WITH MINIMUM 24" FLAT BOTTOM WIDTH IS A SWALE. SQUARE OR OBLONG CONFIGURATION WITH MINIMUM 24" FLAT BOTTOM WIDTH (48" TYPICAL) IS A RAINGARDEN.

## FULL/PARTIAL INFILTRATION RAIN GARDEN/SWALE



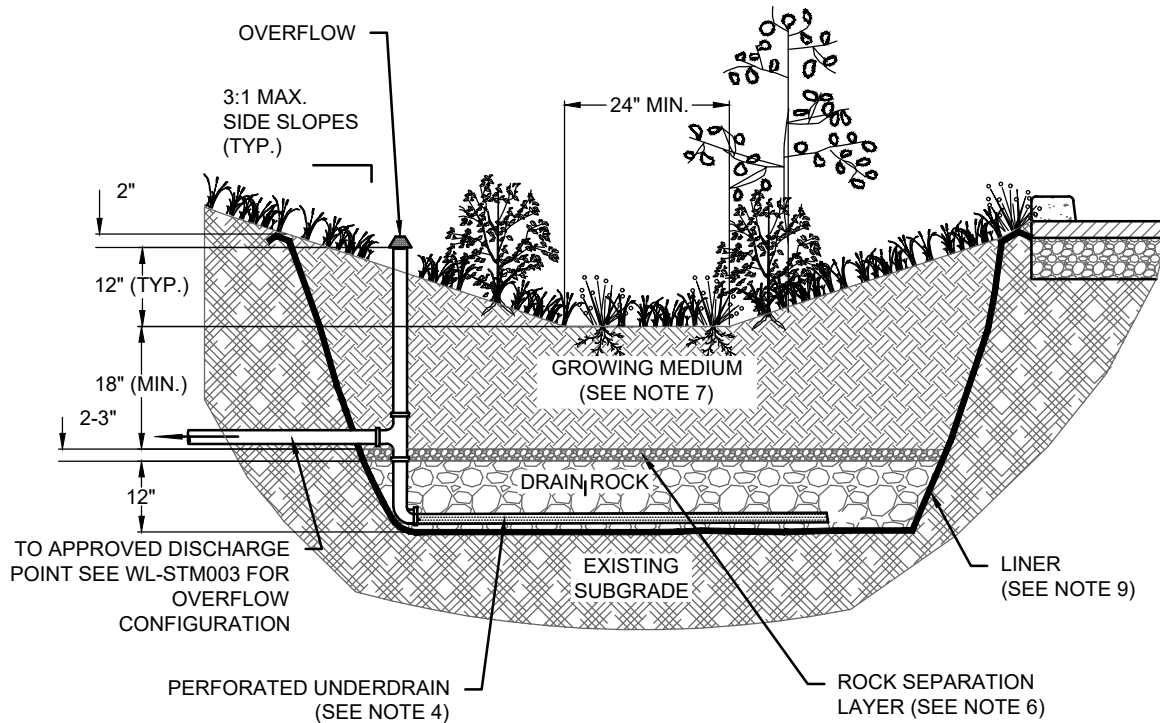
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**WL-STM004**

FILE NO.

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- DIMENSIONS:**  
WIDTH AND LENGTH VARY. DIMENSIONS TO BE SPECIFIED ON PLANS.  
PONDING DEPTH (FROM TOP OF GROWING MEDIUM TO OVERFLOW ELEVATION): 12" (TYP.)  
SIDE SLOPES: 3:1 MAXIMUM.
- SETBACKS:**  
NONE REQUIRED FOR LINED FACILITIES.
- OVERFLOW:**  
FACILITY MUST CONNECT TO APPROVED DISCHARGE POINT PER DETAIL WL-STM003.  
OVERFLOW ELEVATION MUST ALLOW FOR 2" OF FREEBOARD, MINIMUM.  
PROTECT FROM DEBRIS AND SEDIMENT WITH STRAINER OR GRATE.  
OVERFLOW MUST HAVE A 6"-12" UPTURN PRIOR TO DISCHARGE.
- UNDERDRAIN:**  
SEE DETAIL WL-STM003 FOR LINED FACILITY.
- PIPING TO COMPLY WITH OPSC WITHIN PRIVATE PROPERTY.** WEST LINN PUBLIC WORKS DESIGN STANDARDS SHALL APPLY WITHIN THE RIGHT OF WAY OR PUBLIC UTILITY EASEMENTS.
- DRAIN LAYER:**  
3/4"-1 1/2" WASHED ROUND DRAIN ROCK. DEPTH: 12" (MIN.)  
SEPARATION BETWEEN DRAIN ROCK AND GROWING MEDIUM:  
1/4" - #10 ROCK, 2 TO 3 INCHES DEEP.
- GROWING MEDIUM:**  
18" MINIMUM DEPTH. USE SAND/LOAM/COMPOST 3-WAY MIX, OR APPROVED MIX THAT WILL SUPPORT HEALTHY PLANTS. SEE APPENDIX D.
- VEGETATION:**  
REFER TO PLANTING REQUIREMENTS IN APPENDIX E. THE DELINEATION BETWEEN ZONE A AND B MUST BE EITHER AT THE OVERFLOW ELEVATION OR THE CHECK DAM ELEVATION, WHICHEVER IS LOWEST.
- WATERPROOF LINER:** 30 MIL EPDM, HDPE OR APPROVED EQUIVALENT REQUIRED FOR LINED FACILITIES.
- SPLASH BLOCK:**  
INSTALL 4-6" WASHED RIVER ROCK OR SPLASH PAD FOR EROSION CONTROL AT INLETS AND DOWNSPOUT.
- LINEAR CONFIGURATION WITH MINIMUM 24" FLAT BOTTOM WIDTH IS A SWALE. SQUARE OR OBLONG CONFIGURATION WITH MINIMUM 24" FLAT BOTTOM WIDTH (48" TYPICAL) IS A RAINGARDEN.**

## LINED RAIN GARDEN/SWALE



CITY OF  
**West  
Linn**

DATE: 2025

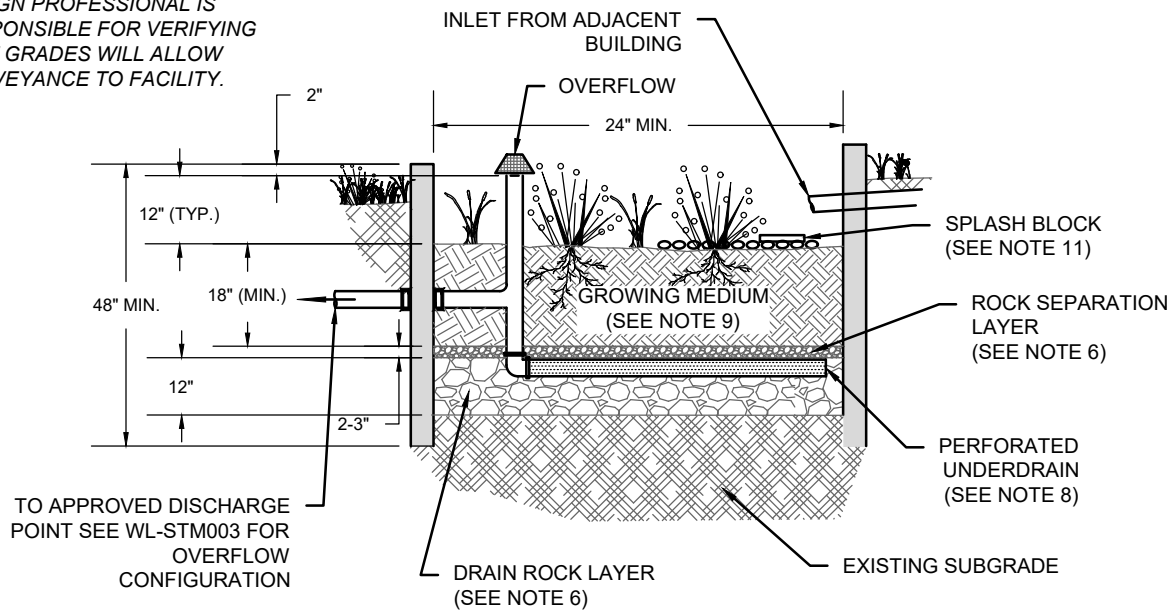
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## FREESTANDING PLANTER

DESIGN PROFESSIONAL IS RESPONSIBLE FOR VERIFYING THAT GRADES WILL ALLOW CONVEYANCE TO FACILITY.



1. PROVIDE PROTECTION FROM ALL VEHICLE TRAFFIC AND EQUIPMENT STAGING IN PROPOSED INFILTRATION AREAS PRIOR TO, DURING, AND AFTER CONSTRUCTION.
2. DIMENSIONS:  
WIDTH OF PLANTER: 24" MINIMUM.  
PONDING DEPTH (FROM TOP OF GROWING MEDIUM TO OVERFLOW ELEVATION): 12" (TYP.)  
LONGITUDINAL SLOPE OF PLANTER: 0.5% OR LESS.
3. SETBACKS:  
FULL/PARTIAL INFILTRATION PLANTERS 5-FEET FROM PROPERTY LINE AND 10-FEET FROM BUILDING FOUNDATIONS.
4. PLANTER WALLS:  
MATERIAL MUST BE CONCRETE, UNLESS OTHERWISE APPROVED. WALLS MUST BE INCLUDED ON FOUNDATION PLANS.  
HEIGHT: 44" MINIMUM
5. PIPING TO COMPLY WITH OPSC WITHIN OPPRIVATE PROPERTY. WEST LINN PUBLIC WORKS DESIGN STANDARDS SHALL APPLY WITHIN THE RIGHT OF WAY OR PUBLIC UTILITY EASEMENTS.
6. DRAIN LAYER:  
3/4" - 1 1/2" WASHED 12" MINIMUM DEPTH.  
SEPARATION BETWEEN DRAIN ROCK AND GROWING MEDIUM: 1/4" - #10 ROCK, 2 TO 3 INCHES DEEP.
7. OVERFLOW:  
PLANTERS MUST CONNECT TO APPROVED DISCHARGE POINT PER DETAIL WL-STM003.  
OVERFLOW ELEVATION MUST ALLOW FOR 2" OF FREEBOARD, MINIMUM.  
PROTECT FROM DEBRIS AND SEDIMENT WITH STRAINER OR GRATE.
8. UNDERDRAIN:  
NOT REQUIRED FOR FULL INFILTRATION FACILITY. AT SITES WITH DESIGN INFILTRATION RATES LESS THAN 0.5IN/HR AN UNDERDRAIN IS REQUIRED ALONG THE FULL LENGTH OF THE FACILITY UNLESS LOCATED IN THE PUBLIC RIGHT OF WAY AND TREES ARE INSTALLED.
9. GROWING MEDIUM:  
18" MINIMUM DEPTH. USE SAND/LOAM/COMPOST 3-WAY MIX, OR APPROVED MIX THAT WILL SUPPORT HEALTHY PLANTS. SEE APPENDIX D.
10. VEGETATION:  
REFER TO PLANTING REQUIREMENTS IN APPENDIX E.
11. SPLASH BLOCK: INSTALL 4-6" WASHED RIVER ROCK OR SPLASH PAD FOR EROSION CONTROL AT INLETS AND DOWNSPOUT.

## FULL/PARTIAL INFILTRATION PLANTER



CITY OF  
**West Linn**

DATE: 2025

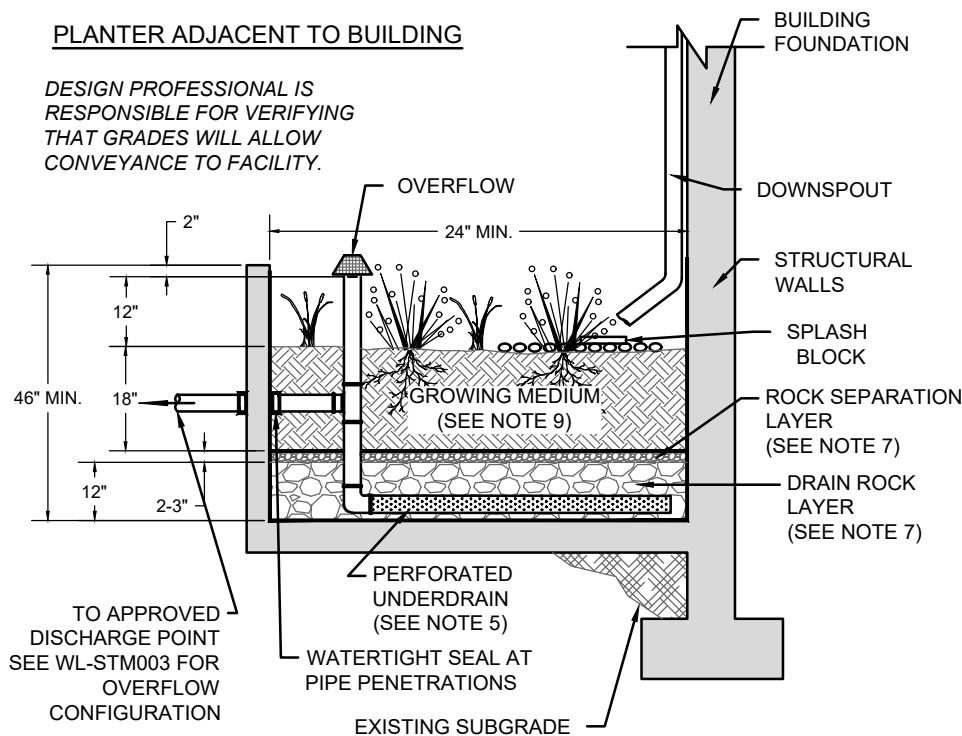
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**WL-STM006**

FILE NO.

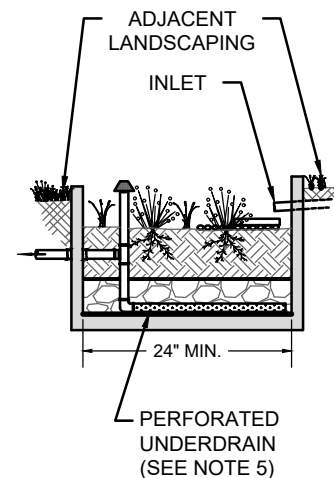
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## PLANTER ADJACENT TO BUILDING

DESIGN PROFESSIONAL IS RESPONSIBLE FOR VERIFYING THAT GRADES WILL ALLOW CONVEYANCE TO FACILITY.



## FREESTANDING PLANTER



- DIMENSIONS:**  
WIDTH OF PLANTER: 24" MINIMUM.  
PONDING DEPTH (FROM TOP OF GROWING MEDIUM TO OVERFLOW ELEVATION): 12".  
LONGITUDINAL SLOPE OF PLANTER: 0.5% OR LESS.
- SETBACKS:**  
PLANTERS MUST BE LESS THAN 30" IN HEIGHT ABOVE FINISH GRADE IF WITHIN 5-FEET OF PROPERTY LINE.
- PLANTER WALLS:**  
MATERIAL MUST BE MONOLITHICALLY POURED CONCRETE. WALLS MUST BE INCLUDED ON FOUNDATION PLANS.
- WATERPROOFING:**  
MONOLITHICALLY POURED PLANTER, WITHOUT JOINTS IS REQUIRED. CHECK STATE STRUCTURAL REQUIREMENTS FOR FOUNDATIONS.
- UNDERDRAIN:**  
SEE DETAIL WL-STM003 FOR LINED FACILITY.
- PIPING TO COMPLY WITH OPSC WITHIN PRIVATE PROPERTY.**  
WEST LINN PUBLIC WORKS DESIGN STANDARDS SHALL APPLY WITHIN THE RIGHT OF WAY OR PUBLIC UTILITY EASEMENTS.
- DRAIN LAYER:**  
3/4" - 1 1/2" WASHED ROCK 12" MINIMUM DEPTH.  
SEPARATION BETWEEN DRAIN ROCK AND GROWING MEDIUM: 1/4" - #10 ROCK, 2 TO 3 INCHES DEEP.
- OVERFLOW:**  
PLANTERS MUST CONNECT TO APPROVED DISCHARGE POINT PER DETAIL WL-STM003.  
OVERFLOW ELEVATION MUST ALLOW FOR 2" OF FREEBOARD, MINIMUM.  
PROTECT FROM DEBRIS AND SEDIMENT WITH STRAINER OR GRATE.
- GROWING MEDIUM:**  
18" MINIMUM DEPTH. USE SAND/LOAM/COMPOST 3-WAY MIX, OR APPROVED MIX THAT WILL SUPPORT HEALTHY PLANTS. SEE APPENDIX D.
- VEGETATION:**  
REFER TO PLANTING REQUIREMENTS IN APPENDIX E.
- SPLASH BLOCK:** INSTALL 4-6" WASHED RIVER ROCK OR SPLASH PAD FOR EROSION CONTROL AT INLETS AND DOWNSPOUT.

## LINED PLANTER

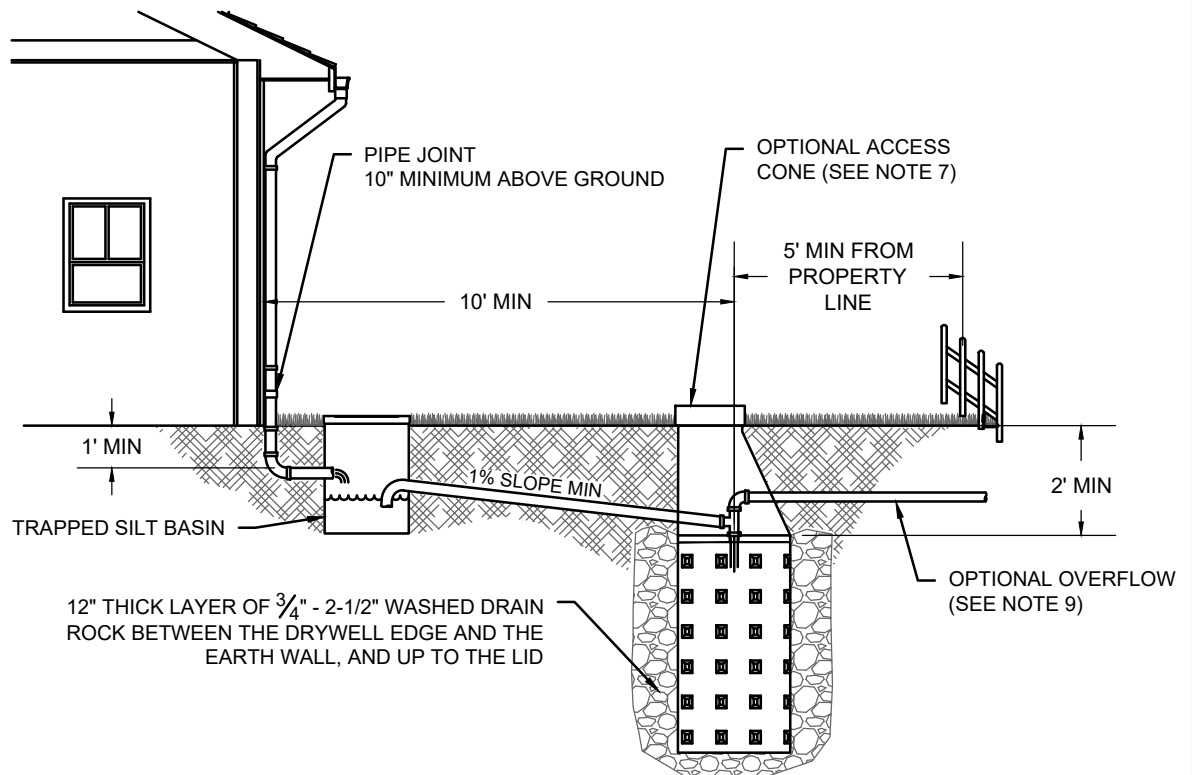


CITY OF  
**West  
Linn**

DATE: 2025

DRAWING NO.  
**WL-STM007**

FILE NO.



1. SITING CRITERIA:  
DRYWELL SHALL NOT BE PLACED WHERE BASE OF FACILITY HAS LESS THAN 5' OF SEPARATION TO THE SEASONAL HIGH WATER TABLE.
2. SIZING:  
REFER TO THE CITY OF WEST LINN STORMWATER MANAGEMENT MANUAL, SECTION 3 FOR SIZING REQUIREMENTS BASED ON CONTRIBUTING IMPERVIOUS AREA.
3. THE TOP OF THE PERFORATED DRYWELL SECTIONS MUST BE BELOW THE FOUNDATION OR BASEMENT LEVEL OF THE PROPERTY AND THOSE OF NEIGHBORING PROPERTIES.
4. SETBACKS:  
MEASURED FROM THE CENTER OF DRYWELL, MUST BE 10' FROM FOUNDATIONS AND 5' FROM PROPERTY LINES, EXCEPT NEXT TO THE RIGHT-OF-WAY WHERE NO SETBACK IS REQUIRED BETWEEN THE EDGE OF THE DRYWELL DRAIN ROCK AND THE PROPERTY LINE.
5. PIPING TO COMPLY WITH OPSC.
6. SILT BASIN:  
SHALL BE INCLUDED AS PRE-TREATMENT FOR RESIDENTIAL ROOFS. MATERIAL MAY BE PLASTIC OR METAL. LID MUST BE SOLID.
7. MAINTENANCE ACCESS MANHOLE AND CONE REQUIRED FOR DRYWELL INSTALLED IN LARGE DEVELOPMENT. ACCESS IS OPTIONAL FOR SINGLE-LOT DEVELOPMENT BUT HIGHLY RECOMMENDED.
8. DRYWELLS RECEIVING FLOW FROM ANYTHING OTHER THAN SINGLE-FAMILY RESIDENTIAL ROOFS MUST BE REGISTERED WITH DEQ AS AN UNDERGROUND INJECTION CONTROL (UIC).
9. OVERFLOW:  
NOT REQUIRED. IF SPECIFIED, LOCATION AND POINT OF DISCHARGE MUST BE VERIFIED BY CITY ENGINEER.

## DRYWELL



CITY OF  
**West  
Linn**

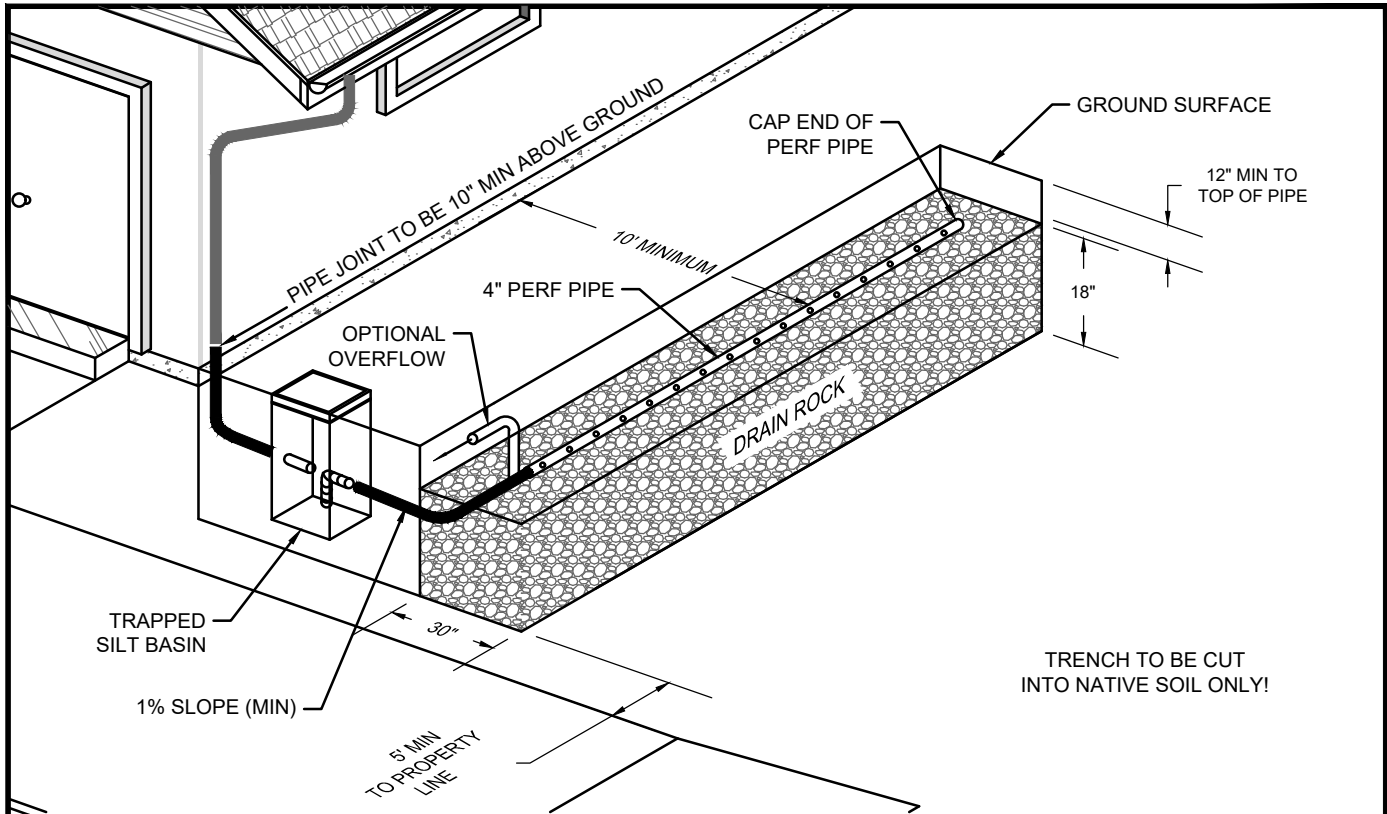
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**WL-STM008**

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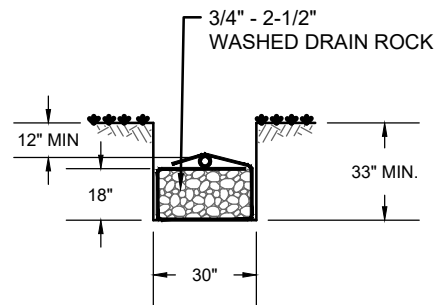


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1. PROVIDE PROTECTION FROM ALL VEHICLE TRAFFIC AND EQUIPMENT STAGING IN PROPOSED INFILTRATION AREAS PRIOR TO, DURING AND AFTER CONSTRUCTION.
2. SITING CRITERIA: SOAKAGE TRENCH SHALL NOT BE PLACED WHERE BASE OF FACILITY HAS LESS THAN 5' OF SEPARATION TO THE SEASONAL HIGH WATER TABLE.
3. SIZING: 30" WIDE X 18" TALL X 30' LONG.
4. SETBACKS: SOAKAGE TRENCH MUST BE 10' FROM FOUNDATIONS, 5' FROM PROPERTY LINES, AND 100' FROM SLOPES 20% OR GREATER.
5. PIPING TO COMPLY WITH OPSC.
6. SILT BASIN: SHALL BE INCLUDED AS PRE-TREATMENT FOR RESIDENTIAL ROOFS. MATERIAL MAY BE PLASTIC OR METAL. LID MUST BE SOLID.
7. OVERFLOW: NOT REQUIRED. IF SPECIFIED, LOCATION AND POINT OF DISCHARGE MUST BE VERIFIED BY CITY ENGINEER.
8. SOAKAGE TRENCHES RECEIVING FLOW FROM ANYTHING OTHER THAN SINGLE-FAMILY RESIDENTIAL ROOF RUNOFF MUST BE REGISTERED WITH DEQ AS A UIC.

### SOAKAGE TRENCH CONSTRUCTION



APPROVED GEOTEXTILE FABRIC TO BE PLACED ON SIDES AND ENDS OF TRENCH. ADD DRAIN ROCK AND FOLD ONE SIDE OF FABRIC OVER ROCK. PLACE PERFORATED PIPE IN CENTER AND THEN INSTALL GREEN TRACER WIRE ON PIPE. COVER ALL WITH REMAINING SIDE OF FABRIC PRIOR TO BACKFILL.

## SOAKAGE TRENCH



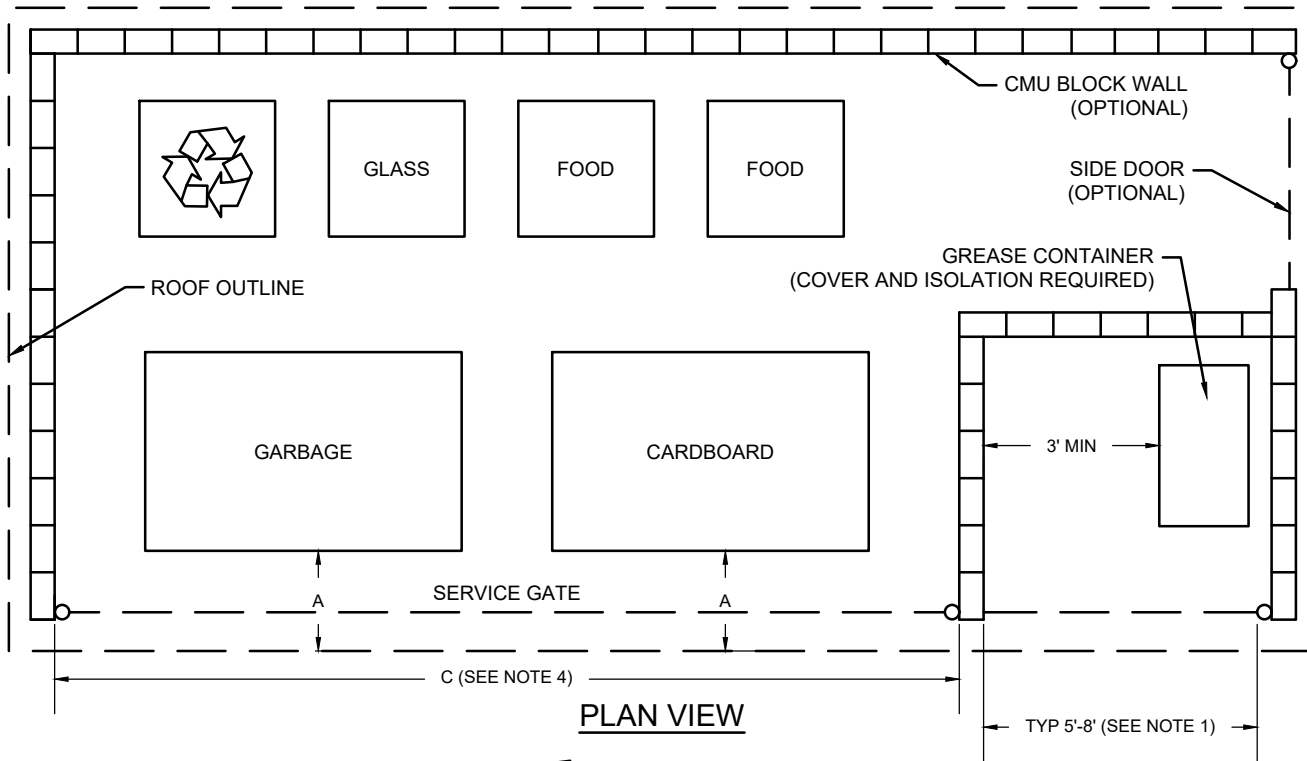
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**West  
Linn**

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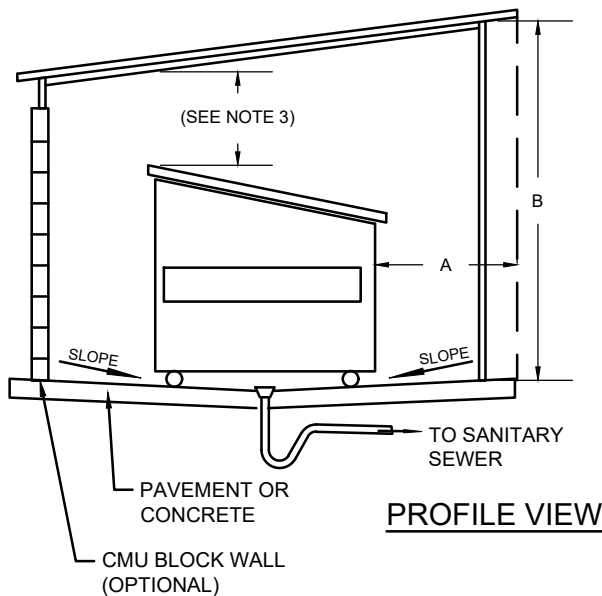
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PLAN VIEW



PROFILE VIEW

### WASTE CONTAINER MINIMUM REQUIREMENTS

DISTANCE FROM FRONT OF CONTAINER TO EXTERIOR ENTRANCE OR OVERHANG (A)	REQUIRED OPENING HEIGHT (B)	MINIMUM OPENING WIDTH (C)
0-1'	9'	12'
1-3'	12'	12'
4'-6'	15.5'	13.5'
7'+	15.5'	13.5'

#### NOTES

1. FOOD INDUSTRY SITES MUST HAVE A SEPARATE AREA FOR OIL/GREASE COLLECTION. THIS CONTAINER MUST HAVE A COVER AND BE HYDRAULICALLY ISOLATED AND PLUMBED TO SANITARY.
2. ROOFING MATERIALS AND ENCLOSURE DIMENSIONS ARE SHOWN FOR REFERENCE ONLY. WALLS ARE OPTIONAL.
3. INTERNAL LID OPENING FOR 4-YARD GARBAGE CONTAINER IS 10'-6". 6-YARD RECYCLING CONTAINER REQUIRES 11'-6".
4. OPENING WIDTH FOR EXAMPLE PLAN VIEW SHOWN IS 20' WHICH ASSUMES A 7' WIDE GARBAGE, 7' WIDE CARDBOARD, AND 2' SPACING.

## WASTE CONTAINER ENCLOSURE



CITY OF  
**West Linn**

DATE: 2025

DRAWING NO.  
**WL-STM010**

FILE NO.