

Greening Richmond Public Libraries

IMPROVING THE HEALTH OF THE JAMES RIVER BY REDUCING STORMWATER POLLUTION

East End Branch Library

1200 North 25th Street, Richmond, 23223 VESCH GENERAL EROSION AND SEDIMENT CONTROL NOTES

- ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS 9VAC25-840.
- ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

<u>RICHMOND STANDARD E&S NOTES</u>

- 1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN, DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- 2. EXCESS EXCAVATION DISPOSED OF OFF THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP OF THE LAND DISTURBING ACTIVITY.
- EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED SO THAT THE SEDIMENT CARRYING RUNOFF FROM THE SITE WILL NOT ENTER STORM DRAINAGE FACILITIES.
- 5. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL THE DISTURBED AREA IS STABILIZED

Pour new curb and gutter to layout

shown, see site plan. Curb follows

existing grade -

- 6. PROPERTIES ADJOINING THE SITE SHALL BE KEPT CLEAN OF MUD OR SILT CARRIED FROM THE SITE BY VEHICULAR TRAFFIC OR RUNOFF
- 7. THE DISPOSAL OF WASTE MATERIALS REMOVED FROM EROSION AND SEDIMENT CONTROL FACILITIES AND THE DISPOSAL OF THESE FACILITIES SHALL BE IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

19 MINIMUM STANDARDS

A VESCP MUST BE CONSISTENT WITH THE FOLLOWING CRITERIA, TECHNIQUES AND METHODS:

- 1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- 2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- 3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
- 4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- 5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- 6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
 - a. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.
- b. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.
- 7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
- 8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE
- 8. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- 9. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

10. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE

9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR

OTHER PROTECTION SHALL BE PROVIDED.

- CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. 11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR
- PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
- 12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
- 13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
- 14. ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.
- 15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
- 16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA: a. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE
- b. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- c. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
- d. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- e. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THIS
- f. APPLICABLE SAFETY REQUIREMENTS SHALL BE COMPLIED WITH.
- 17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS
- 18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE VESCP AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- 19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA. STREAM RESTORATION AND RELOCATION PROJECTS THAT INCORPORATE NATURAL CHANNEL DESIGN CONCEPTS ARE NOT MAN-MADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS

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Bioretention basin walls: 3500 psi concrete with $\frac{1}{2}$ " rebar 18" horizontally and vertically. Treat exposed faces with artex to remove any form marks or striations. Tooled top corners. Waterproof interior of walls, contractor to submit product cut sheet.

Red line denotes existing grade 30" Engineered Soil –6" Gravel & Perf Pipe – **SECTION B**

> Velocity reduced and trash/salt trap: mix 3-5" and 2-3" tan riverstone sizes at 75/25%. Place larger stones over fabric and carefully fill gaps with mortar, apply smaller stones. No mortar shall be visible. This application is intended to be semi-pervious to capture road salt. Contractor to provide mock-up for approval

SECTION A

My Coopason Coopas

SCALE 1'' = 4'

ALLIANCE for the Chesapeake Bay

Altria

James
River
Association



Red line denotes existing grade





Underdrain-

9" typ——



*See detail for overflow

pipe/trash trap





7000





Bee Zone Markers: 3500 psi concrete, set

as second pour on top of walls with (3) pcs

 $\frac{1}{2}$ " rebar in wall pour for connection. Treat

striations. Use project standard color

admixture, tooled top corners.

24" Engineered Soil

Roll down curb inlet, see site layout

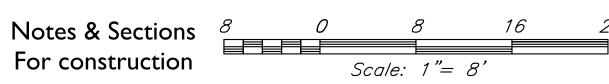
face with Artex to remove any form marks or

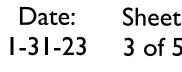


3" Mulch layer_

For construction

SCALE 1'' = 4'



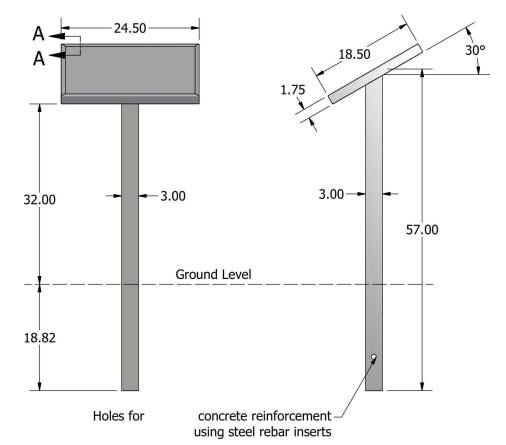


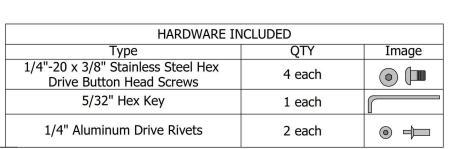
3 of 5 DPU2

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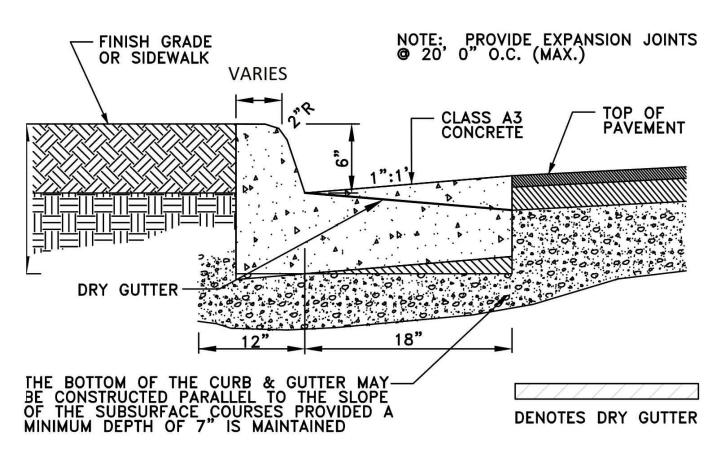
East End Branch Library

1200 North 25th Street, Richmond, 23223





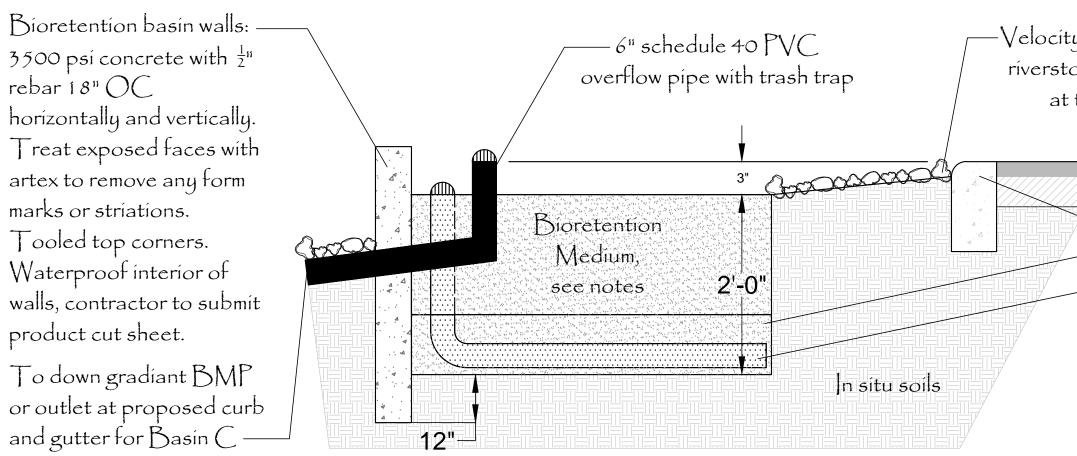




CURB AND GUTTER DETAIL

NO SCALE

3500 psi concrete with $\frac{1}{2}$ " rebar 18" OC horizontally and vertically. Treat exposed faces with artex to remove any form marks or striations. Tooled top corners. Waterproof interior of walls, contractor to submit product cut sheet. To down gradiant BMP or outlet at proposed curb and gutter for Basin C —



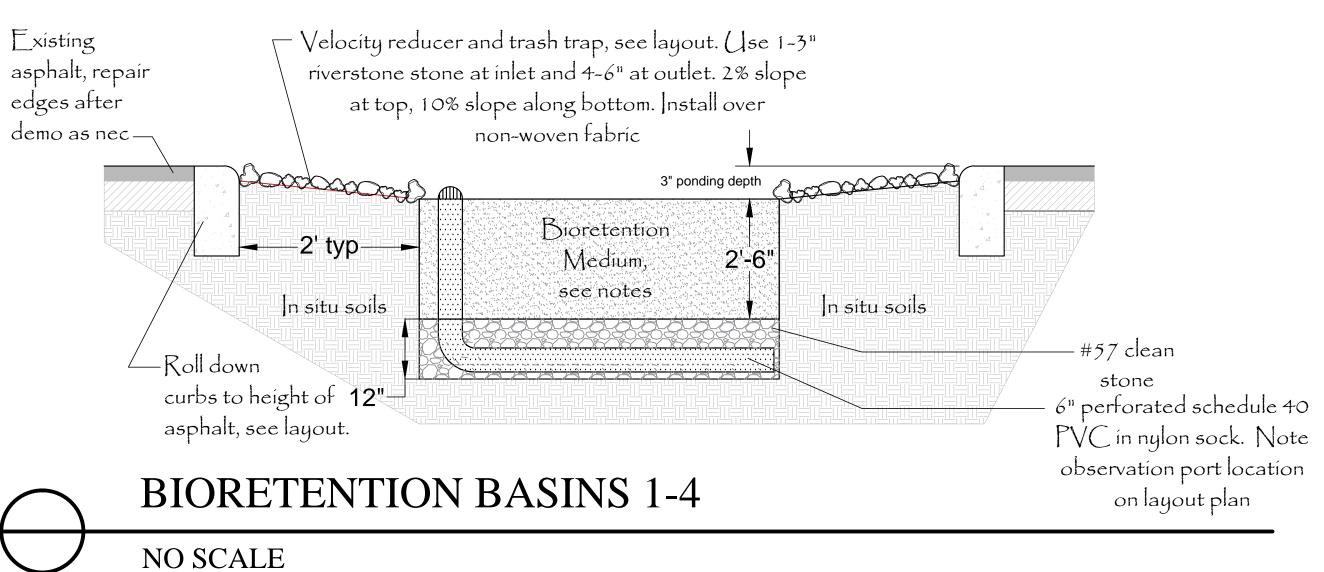
-Velocity reducer and trash trap, see layout. Use 1-3" riverstone stone at inlet and 4-6" at outlet. 2% slope at top, 10% slope along bottom. Install over non-woven fabric

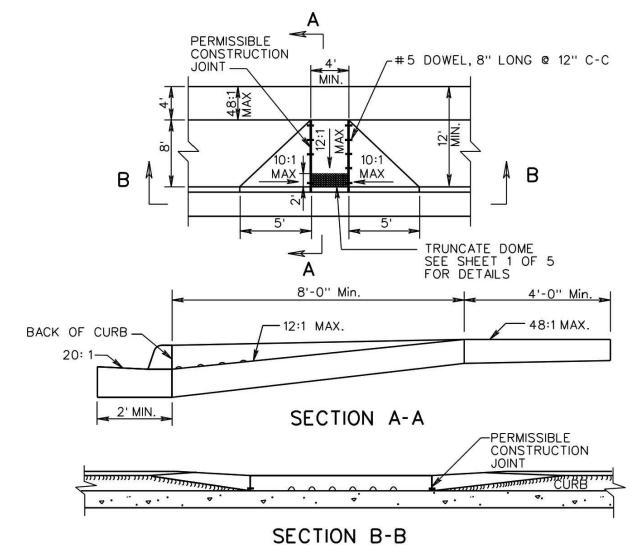
> Existing asphalt, repair edges after demo as nec -Roll down curbs to height of asphalt, see layout. -#57 clean stone

-6" perforated schedule 40 PVC in nylon sock. Note observation port location on layout plan

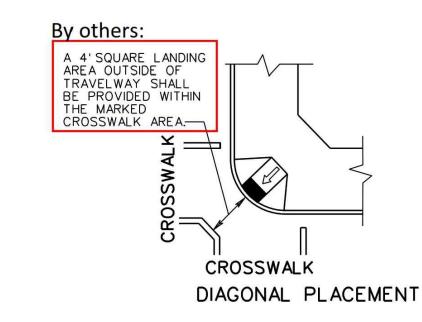
BIORETENTION BASINS A-C

NO SCALE





FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5. THIS DESIGN TO BE USED FOR CONSTRUCTION THAT INCORPORATES WIDER SIDEWALK. LANDING (4' WIDE) REQUIRED AT TOP OF CURB RAMP. MINIMUM CURB RAMP LENGTH 8 FEET FOR NEW CONSTRUCTION, 6 FEET FOR ALTERATIONS.



Stormwater Management Facility Data, East End

| Stormwater Management Facility Type | Stormwater Management Description | Stormwater Management Facility Structure Number | Location | | Acres Treated By Facility | | | Pollutant Removal, lbs | | | Per VRRM | |] | | İ |
|---|-----------------------------------|---|--------------------|-------------|---------------------------|-------------------|----------------|------------------------|------|-----|-------------------------------|--------------------------------|--|--|---|
| | | | Latitude | Longitude | Impervious Acres | Pervious Acres | Total Acres | TP | TN | TSS | Treatment Volume (cubic feet) | Runoff captured (acre-feet) | HUC (6th order) Of Location Of Facility | Impaired Water Segment To Which Facility Discharges | Ownership Of Facility (Public/Private) |
| Bioretention | Urban Bioretention | А | 37.53957d N | 77.41146d W | 0.0309 | 0.0032 | 0.0341 | 0.04 | 0.30 | n/a | 103.00 | 0.0009 | JL101 | James River - Almond Creek | Public |
| Bioretention | Urban Bioretention | В | 37.53961d N | 77.41152d W | 0.0586 | 0.0017 | 0.0603 | 0.07 | 0.58 | n/a | 202.00 | 0.0019 | JL101 | James River - Almond Creek | Public |
| Bioretention | Urban Bioretention | С | 37.53968d N | 77.41161d W | 0.0127 | 0.0006 | 0.0133 | 0.02 | 0.13 | n/a | 44.00 | 0.0004 | JL101 | James River - Almond Creek | Public |
| Bioretention | Urban Bioretention | 1 | 37.53957d N | 77.41131d W | 0.0171 | 0.0000 | 0.0171 | 0.02 | 0.17 | n/a | 59.00 | 0.0006 | JL101 | James River - Almond Creek | Public |
| Bioretention | Urban Bioretention | 2 | 37.53970d N | 77.41118d W | 0.0492 | 0.0000 | 0.0492 | 0.06 | 0.49 | n/a | 170.00 | 0.0016 | JL101 | James River - Almond Creek | Public |
| Bioretention | Urban Bioretention | 3 | 37.53983d N | 77.41108d W | 0.0309 | 0.0000 | 0.0309 | 0.04 | 0.31 | n/a | 107.00 | 0.0010 | JL101 | James River - Almond Creek | Public |
| Bioretention | Urban Bioretention | 4 | 37 54003d N | 77 41145d W | 0 0797 | 0.0097 | 0.0894 | 0.10 | 0.86 | n/a | 299.00 | 0.0028 | JI 101 | James River - Almond Creek | Public |

CG DETECTABLE WARNING SURFACE RAMP

NO SCALE













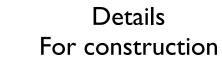


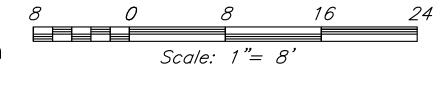












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1200 North 25th Street, Richmond, 23223

| | City Water | Sampling | Station |
|--|------------|----------|---------|
|--|------------|----------|---------|

Water Meter **Existing Trees** Gas Meter

City Street Lights

City Utility Pole

City Electrical Vault

Interpretive Sign

Proposed Bioretention Basins

Bee Zone Markers, 10

Bioretention basin

2.5" Cal Acer rubrum 'Brandywine' Red Maple 3 Gal Aronia arbutifolia 'Low Scape Red Chokeberry 1 Gal Chasmanthium latifolium Sea Oats 3 Gal **Dwarf Clethra** Clethra alnifolia 'Hummingbird' 7 Gal Itea virginica 'Henry's Garnet' Sweetspire 3 Gal Sweetspire Itea virginica 'Little Henry' 1 Gal Juniperus horizontalis 'Bar Harbor' Creeping Juniper Sweetbay Magnolia 7-8' 3 Gal Panicum amarum 'Dewey Blue' tlantic Coastal Panic Grass

Panicum virgatum 'Shenandoah' Switch Grass 3 Gal Rhus aromatica 'Low Grow' Fragrant Sumac 19 3 Gal

THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES IS SHOWN ON THIS PLAN, CONTRACTOR TO CONTACT MISS UTILITY AND LOCATE GAS LINE CLOSEST TO PROPOSED IMPROVEMENTS ON R STREET.

CONTRACTOR TO ASSUME ALL RESPONSIBILITY FOR CONSTRUCTION METHODS EMPLOYED AND FIELD VERIFY ALL DIMENSIONS. ISSUES AND CONCERNS SHALL BE REPORTED TO FOUR WINDS.

CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL **BUILDINGS AT ALL TIMES DURING THE DEMOLITION AND BUILDING PROCESS**

NO PUBLIC THOROUGHFARES INCLUDING SIDEWALKS SHALL BE BLOCKED DURING DEMOLITION OR CONSTRUCTION WITHOUT PROPERLY DISPLAYED MUNICIPALITY PERMITS. NO HOLES SHALL BE LEFT OPEN OVERNIGHT WITHOUT SECURING PERIMETER FENCING OR INSTALLING CAUTION TAPE AROUND THE HOLE.

HOLES. THESE PICTURES SHALL BE EMAILED TO FOUR WINDS AS THEY ARE TAKEN.

Velocity reducer & trash

This drawing shall be printed in color and prints to scale on 24"x36"

paper. Using smaller print sizes in the field is not permissible. A copy of the city approved drawings and stormwater permit shall be kept on site at all times.

IRRIGATION WILL BE INSTALLED BY RICHMOND IRRIGATION, CONTACT DAN BRADY FOR QUOTE TO INCLUDE IN CONTRACTORS PROPOSAL. SEE PLANTING PLAN FOR LAYOUT NARRATIVE FOR CONSIDERATION IN CONCRETE WORK.

IN ADDITION TO THE PLANTINGS SHOWN, 11 MV SHALL BE INSTALLED AS STREET

TREES ALONG R STREET. LOCATIONS FLAGGED IN THE FIELD AT TIME OF INSTALL.

DISEASED & DEAD BRANCHES PRUNED. PLANT TAGS REMOVED. 65 PA-RUBBER TUBING OR HOSE SECTION PROTECTS TRUNK FROM WIRE 8 RA SLIGHT SLACK IN WIRE PLANT HOLE IS FREE DRAINING STAKES DRIVEN WELL INTO UNDISTURBED SOIL. HOLE TWICE











Planting & Irrigation Plan Not for construction

Scale: 1"= 8'

I-3I-23









& Shrubs To Be Preserved:

NOTES

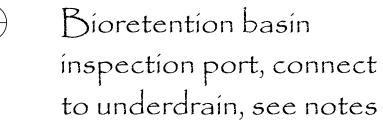
Electric Meter

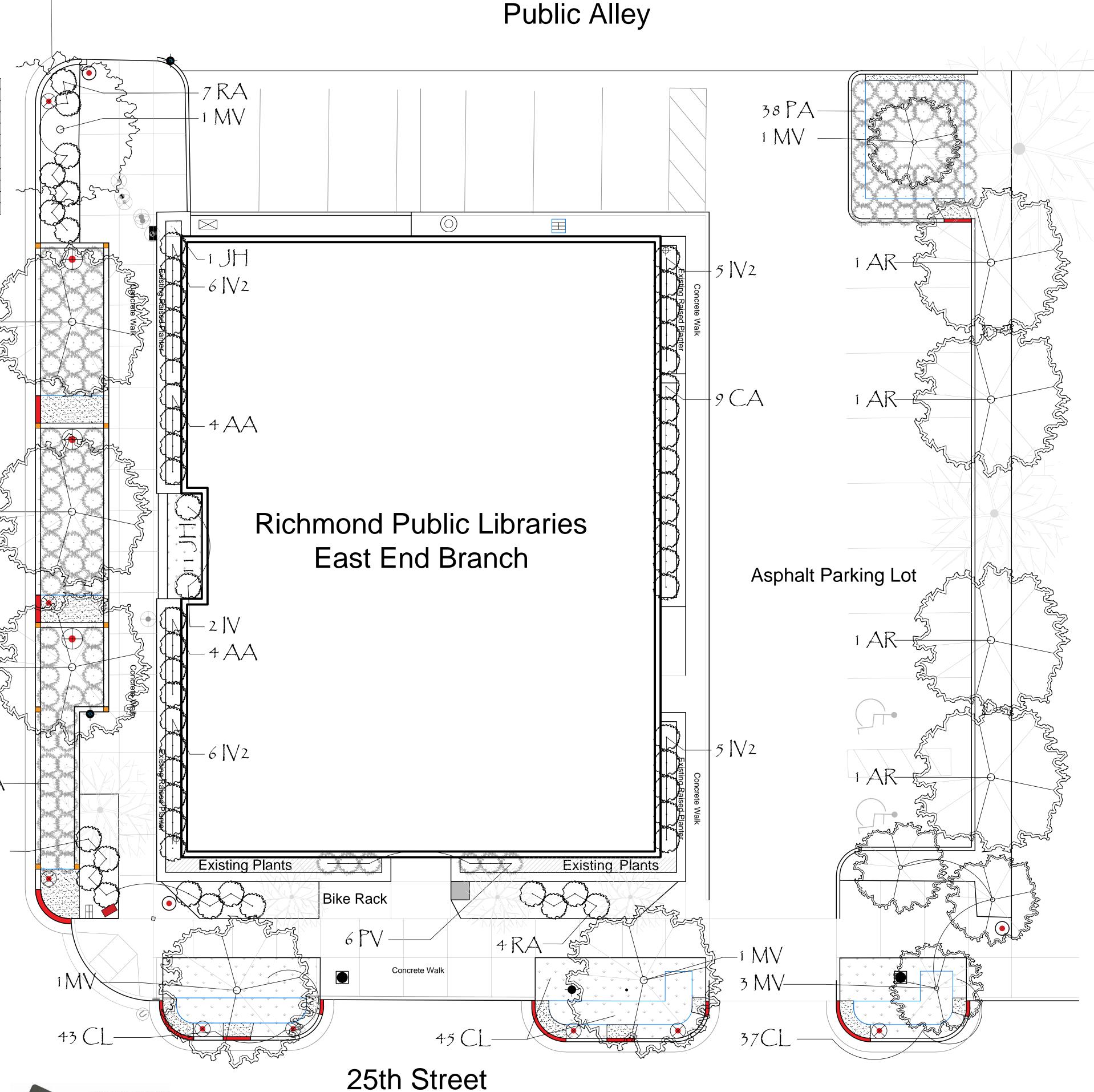
Backflow preventer

Hose Bib

Gas Vault Clean out

Proposed Trash Can, 3











Tree Planting

Scale: none









