

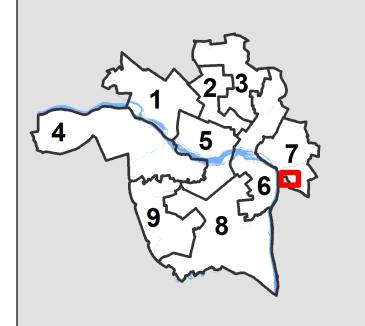
City of Richmond Department of Planning & Development Review

Location, Character, and Extent

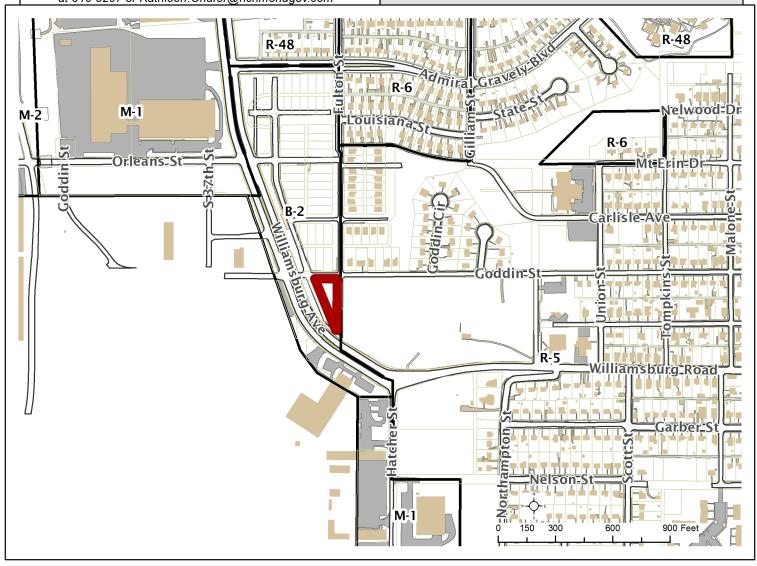
LOCATION: Historic Fulton Memorial Park

COUNCIL DISTRICT: 7

PROPOSAL: Final review of design for a new park



For questions, please contact Kathleen Onufer at 646-5207 or Kathleen Onufer@richmondgov.com





Application for URBAN DESIGN COMMITTEE Review

Department of Planning and Development Review
Planning & Preservation Division
900 E. Broad Street, Room 510
Richmond, Virginia 23219
(804) 646-6335

http://www.richmondgov.com/CommitteeUrbanDesign

Application Type Addition/Alteration to Existing Structure New Construction Streetscape Site Amenity	Encroachment Master Plan Sign Other	Review Type Conceptual Final
Project Name:		
Project Address:		
Brief Project Description (this is not a replaceme	nt for the required detailed r	arrative) :
Applicant Information (on all applications other than encroachments, a City agence)	cy representative must be the appl	icant)
Name:	Email:	
City Agency:	Phone: _	
Address:		
Main Contact (if different from Applicant):		
Company:	Phone: _	
Email:		·

Submittal Deadlines

All applications and support materials must be filed no later than 21 days prior to the scheduled meeting of the Urban Design Committee (UDC). Please see the schedule on page 3 as actual deadlines are adjusted due to City holidays. Late or incomplete submissions will be deferred to the next meeting.

Filing

Applications can be mailed or delivered to the attention of "Urban Design Committee" at the address listed at the top of this page. It is important that the applicant discuss the proposal with appropriate City agencies, Zoning Administration staff, and area civic associations and residents prior to filing the application with the UDC.

UDC Background

The UDC is a ten member committee created by City Council in 1968 whose purpose is to advise the City Planning Commission on the design of projects on City property or right-of-way. The UDC provides advice of an aesthetic nature in connection with the performance of the duties of the Commission under Sections 17.05, 17.06 and 17.07 of the City Charter. The UDC also advises the Department of Public Works in regards to private encroachments in the public right-of-way.



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Submission Requirements

- 10 copies of the application cover sheet and all support materials (see below), unless the application is for an encroachment, in which case only 6 copies are required. Plan sheets should be 11" x 17", folded to 8 1/2" x 11". If it is not possible to scale plans to these dimensions, please provide one set of larger, scaled plans.
- An electronic copy (PDF preferred) of all application materials, which can be burned to disc, emailed, or delivered by FTP.

All applications must include the attached cover sheet and the following support materials, as applicable to the project:

For Conceptual Review

- A detailed project narrative which includes the following: purpose of the project, project background, project budget and funding sources, description of construction program and estimated construction start date (description should also provide information on the surrounding area to provide context).
- A site plan for the project indicating site characteristics which include: building footprints, parking areas, pedestrian routes, recreation areas, open areas and areas of future expansion.
- A set of floor plans and elevations, as detailed as possible.
- A landscaping plan which shows the general location and character of plant materials and notes any existing tree to be removed.

For Final Review

- A detailed project narrative which includes the following: purpose of the project, project background, project budget and funding sources, description of construction program and estimated construction start date (description should also provide information on the surrounding area to provide context).
- A site plan for the project indicating site characteristics which include: building footprints, parking areas, pedestrian routes, recreation areas, open areas and areas of future expansion.
- A set of floor plans and elevations, as detailed as possible.
- A landscaping plan that includes a complete plant schedule, the precise location of all plant materials, and a landscape maintenance analysis. The plant schedule must show number, size and type of each planting proposed. If existing trees are to be removed, their size, type and location must be noted on the landscape plan.
- The location of all lighting units should be noted on a site plan, including wall-mounted, site and parking lot lighting. Other site details, such as benches, trash containers and special paving materials, should also be located. Include specification sheets for each item.
- Samples of all proposed exterior building materials, including but not limited to brick, mortar, shingles, siding, glass, paint and stain colors. When as actual sample cannot be provided, a product information sheet that shows the item or a photo of an existing item may be substituted.

Review and Processing

Once an application is received, it is reviewed by staff, who compiles a report that is sent to the UDC. A copy of the report and the meeting agenda will be sent to the applicant prior to the meeting. The applicant or a representative should be present at the UDC meeting or the application may be deferred to the next regularly scheduled meeting. It is also strongly suggested that a representative of the City Agency which will have final responsibility for the item be present at the meeting (if the applicant and the representative are not the same). Once the UDC recommends action on the application, it is automatically placed on the agenda for the next City Planning Commission (CPC) meeting. An exception to this is encroachment applications, recommendations for which are forwarded to the Department of Public Works. The applicant or a representative must be present at the CPC meeting or the application may be deferred to the next regularly scheduled meeting.



Application for URBAN DESIGN COMMITTEE Review

Department of Planning and Development Review Planning & Preservation Division 900 E. Broad Street, Room 510 Richmond, Virginia 23219 (804) 646-6335

http://www.richmondgov.com/CommitteeUrbanDesign

MEETING SCHEDULE 2015-2016

UDC Meetings	UDC Submission Deadlines	Anticipated Date of Planning Commission Following the UDC Meeting
December 10, 2015	November 12, 2015*	January 4, 2016
January 7, 2016	December 10, 2015**	January 19, 2016 ¹
February 4, 2016	January 14, 2016	February 16, 2016 ²
March 10, 2016	February 18, 2016	March 21, 2016
April 7, 2016	March 17, 2016	April 18, 2016
May 5, 2016	April 14, 2016	May 16, 2016
June 9, 2016	May 19, 2016	June 20, 2016
July 7, 2016	June 16, 2016	July 18, 2016
August 4, 2016	July 14, 2016	September 6, 2016 ³
September 8, 2016	August 18, 2016	September 19, 2016
October 6, 2016	September 15, 2016	October 17, 2016
November 10, 2016	October 20, 2016	November 21, 2016
December 8, 2016	November 10, 2016*	January 3, 2017 ⁴

For further information or assistance, please contact the Planning and Preservation Division by phone at (804) 646-6335 or by email at DCDCompPlan@RichmondGov.com.

Information about the UDC along with the application and meeting schedule is available at the City of Richmond website, http://www.richmondgov.com/CommitteeUrbanDesign

Monday, January 18th is a City of Richmond Holiday
 Monday, February 15th is a City of Richmond Holiday
 Monday, September 5th is a City of Richmond Holiday

⁴ Monday, January 2nd, 2017 is a City of Richmond Holiday

^{*} Moved forward to account for Thanksgiving Holiday Schedule

^{**} Moved forward to account for Winter Holiday Schedule

July 14, 2016

Department of Planning and Development Review Planning & Preservation Division 900 E. Broad Street, Room 510 Richmond, VA 23219

Reference: Historic Fulton Memorial Park

Project Narrative:

Historic Fulton Memorial Park is a collaboration of Greater Fulton Legacy Committee, Storefront for Community Design, Neighborhood Resource Center, and City Department of Parks and Recreation. Two parcels of land recently transferred from the Richmond Redevelopment and Housing Authority to City Department of Parks and Recreation. The vacant land is bounded on the north by Goddin Street, on the east by Fulton Street, and on the west and south tip by Williamsburg Avenue. Right of way segments of Fulton Street and Old Williamsburg Avenue are in the process of being vacated for the project.

The site is to be developed as a passive park for citizen gathering and events with a historic theme representing the historic value of the Fulton neighborhood and memorializing persons and events of Fulton.

The construction will involve removal of the remnant concrete and granite curbs, cobblestone, asphalt, concrete and gravel surfaces of Fulton Street and Williamsburg Avenue. A concrete sidewalk along Goddin will be removed as well. Existing curb inlets on Fulton and Williamsburg near Goddin will all be modified to be converted to manhole tops or grate tops. The single, existing tree is intended to be saved.

The park is intended to blend with the Powhatan Park adjoining this site on the east. A walking path, 12' wide, is to replace the alignment of the removed roads. Cobblestoned entry aprons off Goddin Street will connect the walking paths in the park to provide maintenance vehicle access. Removable bollards will restrict this access to City vehicles only. Several cobblestoned seating areas will be included along the paths. The paths will join at a circular plaza area in the apex of the parcel overlooking Williamsburg Road due south and will provide a concrete sidewalk connection to the existing sidewalk running along Williamsburg Road. This plaza is intended to provide a setting for memorial sculpture and granite pylons and seating.

The project funding source is the City of Richmond. Other funds are being privately raised. The park development may be built in phases as additional funds become available. Currently the construction budget is \$600,000.00 and design budget is \$49,300.00.

Project Schedule is:
Advertisement- Winter 2016
Contract Award- Spring/Summer 2017
Start Construction- Fall 2017
Construction Complete- Spring 2018
Park Opening/Dedication- Spring/Summer 2018

Sincerely,

Rummel, Klepper & Kahl, LLP

Malachi M. Mills, P.E.

Director

Commission Number: 10013

MMM/dap Attachments

Cc:

OWNER:

CITY OF RICHMOND
DEPT. OF PUBLIC WORKS
PARKS, RECREATION & COMMUNITY FACILITIES
900 E. BROAD ST., SUITE 704
RICHMOND, VA 23219
PHONE: 804-645-7000
AHn: MR. LARRY MILLER

E-MAIL: LARRY.MILLERORICHMONDGOV.COM

ENGINEER:

RUMMEL, KLEPPER & KAHL, LLP 2100 EAST CARY STREET; SUITE 309 RICHMOND, VA 23223 PHONE: 804-782-1903 FAX: 804-782-2142 Attn: MR. MALACHI MILLS E-MAIL: mmills@rkk.com

LANDSCAPE ARCHITECT:

CITE DESIGN 310 N. ADAMS STREET RICHMOND, VA 23220 PHONE: 804-340-2848 FAX: 804-340-2856 AHn: MR. ANDREW BLECKLEY E-MAIL: ABLECKLEYOCITE-DESIGN.COM

CITY OF RICHMOND, VIRGINIA

DEPARTMENT OF PUBLIC WORKS PARKS, RECREATION AND COMMUNITY FACILITIES



HISTORIC FULTON MEMORIAL PARK

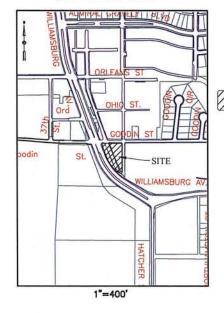
INDEX OF SHEETS

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DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY OF RICHMOND OR VDOT.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE 2009 VDOT ROAD AND BRIDGE SPECIFICATIONS, 2008 VDOT ROAD AND BRIDGE STANDARDS, 2009 FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL, APPLICABLE CITY OF RICHMOND STANDARDS AND SPECIFICATIONS, AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC VERSION OF THE PLAN ASSEMBLY.

LOCATION MAP



JUNE 13, 2013



REVISIONS

NO.	DATE	COMMENTS	

CITY OF RICHMOND

APPROVED FOR CONSTRUCTION		
DATE	SURVEYS SUPERINTENDENT	
DATE	PROJECT MANAGER	
	N/A	
DATE	MAINTENANCE ENGINEER	
DATE	CITY TRAFFIC ENGINEER	
DATE	CAPITAL PROJECTS ADMINISTRATOR	
DATE	CITY ENGINEER	
DATE	DIRECTOR OF PUBLIC WORKS	





2100 EAST CARY STREET, SUITE 309 RICHMOND, VIRGINIA 23223 (P) 804 782-1903 (F) 804 782-2142

RUMMEL, KLEPPER & KAHL, LLP

CONSTRUCTION NOTES:

ATTENTION: Utility "Work in the Streets" permits FROM: Department of Public Works—Division of R Management — Office of the Permits Engineer

- 1. All cuts in the streets and sidewolks shall be performed under a
- Permit and monitored by the permit inspector.

 2. Work shall not commence until the permit inspector has been notified, a pre-construction conference held and Miss Utility clears.

 3. Cuts shall be as clean and straight as possible, with no outline dimensions less than 3 feet without special approval of the
- department's inspector.

 4. The details of trenching cuts for utility strips must be shown in a typical section on the drawings or provided in a submittal with construction notes specifying widths, depths, methods, materials, compaction requirements and pavement restoration of abiding by the DPW attachment standard.
- All asphalt pavement restoration thickness shall be 1 1/2 times the existing section or a minimum of B inches whichever is greater. See the DPW trench restoration illustration for the typical
- conformance standards.

 6. The final restoration on open trench cuts requires the disturbed aspholt pavement zone to be a square pointed off and straight line. The area of povement restoration is to be fully enveloped by the final surface course repairs. The adjoining surface/top course layer is to be over-milled a minimum depth of 1.25 inches or more, a minimum distance of one foot beyond each side of the trench wall. This step out is to occur along the entire trench line run and/or squared pointed area. Cuts involving continuous network runs, which exceed 350 feet in length or typically over one full City block, will be considered multiple block cuts. On multiple block cut zones, the be considered multiple block cuts. On multiple block cut zones, the over milling of the trench line and adjoining surface course layer must be done with typical high production roadway cold planning equipment. In multiple block restoration cases, where the high production cold planner is required, final paving shall be done by a high production highway paver.

 7. Permittee must provide and coordinate the necessary Geotechnical Services from a qualified firm to insure compaction approval. Approval of in-place material must be followed up with a written summary report. Compaction requirements will be reviewed for approval by the Permits Engineer or his respresentative.

 8. All disturbed sidewalk and curb shall be repaired and replaced in accordance with City Standards.
- dance with City Standards.
- accordance with City Standards.

 9. All utility cuts are to be examined and approved by the appropriate utility inspector/representative.

 10. All encroachments must be satisfied by ordinance.

 11. Contractor to coordinate with the City of Richmond DPW 48 hours in advance of closing the parking lot to general vehicular traffic. All traffic closures shall be in compliance with the Virginia Work Area Protection Manual (VWAPM), 2011 Editions.

PAVEMENT DESIGN

Designs for "residential subdivisions" and "non-residential" Road Pavements

 Residential— the required design thickness of the aggregate base (6".
 h, base course asphalt (3.5", BM-2) and surface course asphalt(2", SM-2A) are shown in the street standards illustrations. Pavement section design thickness is based on a CBRvalue of ten and may be increased or decreased as allowed by the standards. It shall not be decrease below decreased as allowed by the standards. It shall not be decrease below the City of Richmond's minimum design standard of 6 Inches of 21A aggregate base, 2 inches of SM-2A base course asphalt and 1.5 inches of SM-2A surface/top course asphalt.

2. Alternate equivalent povement sections may be substituted for those called for in standards. The approval procedures call for a qualified povement engineer to reference and follow the established Virginia Department of Transportation guidelines in their pamphlet entitled, "Povement Design Guide for Subdivision and Secondary Roads", year 2000 attition or amended. Alternate present sections must be represented.

edition, os amended. Alternate povement sections must be pre-approved by the Department of Public Works, Right of Way Manager. Note the minimum City of Richmond residential povement section described above. 3. Non-residential street povement sections must meet the minimum design thickness of 8 inches of 21a base aggregate, 6 inches BM-2 base course asphalt and 2 inches of SM-2A surface course asphalt. Any processor of the property of the support of the surface of the support of the requested reductions in the minimum pavement section design thickness

(8inches 21A base aggregate, 6 inches BM-2 base course asphalt and 2 inches of SM-2A surface course asphalt) will be considered in the downtown, arterial streets, major collectors and/or any other major

connection streets.

5. Designated Downtown areas, heavy commercial zones, particularly high volume bus routes, turning lanes, bus bays and major industrial zones will require a heavy duty povement section. Heavy duty is described as a minimum of 8 inches of 21A aggregate base, with 8 inches of 8M-2 base course asphalt and 2 inches of SM-2A surface course asphalt. No reductions of this povernent section will be allowed in so designated zones.

6. As per direction of the Permits Engineer, right of Way Manager or the Director, the public works permitting requirements may designate specific anti-rutting types of asphalt mix designs requirements (i.e. SM-2D/SM-2E) that will better suit problem conditions and/or better serve locations with certain types and volumes of traffic.

ROAD SUBGRADE

Lot dimensions in parentheses are from dee-

Property owners correct as of _____, 20_

Ordinance Number

Adopted

Accepted

 Inspection and approval of the subgrade will be required prior to the placement of the approved povement section material.
 Any clay deposits in the top two feet of the subgrade must be oved or addressed as recommended by the geo

engineer.

3. Subgrade approval shall be accompanied by the supporting documentation verifying density test results of 92% or greater

The entire subgrade will have been proofrolled in the presence of the site inspector and geotechnical representative. Proofrolling shall be a rubber tire vehicle such as a loaded ten (10) ton truck or

The final subgrade shall be approved by the geotechnical engineer and site inspector before placement of payment section materials.

RESIDENTIAL STREET PAVEMENT SECTIONS

Alternate equivalent pavement sections may be substituted for the City Standard Povement Section Design when proper methods of subgrade soils analysis are conducted and with the approval of the

2. CBR sampling of the subgrade soils for final pavement design must be coordinated by the owner, through the geotechnical engineer and verified by the assigned site inspector during the

Test for Final Pavement design shall be conducted on a approved reveal of the subgrade. These test shall be made at each intersection, changes in subgrade soils, and at a maximum of two (2) CBR samples will be required for any cul-de-sac or dead end street less than 500 in length.

Test spacing and methods must follow the approved guidelines set forth and/or as recommended by the geotechnical engineer.

The Final Alternate Equivalent Pavernent design must be submitted to the DPW Right of Way Manager for approval. The submission will be accompanied by the supporting geotechnical report an designed by a pavernent engineer.

DPU UTILITY NOTES:

- The contractor shall notify the appropriate city department prior to making any utility adjustments or performing other work within the right-of-way.

 The sequence of utility construction shall be developed in such a manner that water and sanitary sewer service is maintained at all times during construction except during tie-ins and connections. When service is interrupted, the contractor shall provide the City with 72 hours notice prior to the interruption. The affected property owner shall be notified 48 hours prior to service interruptions. Contractor shall provide the City with a detailed plan and schedule five (5) working days in advance to performing work. and schedule five (5) working days in advance to performing work, which requires interruption to customer utility service. Service interruptions shall be kept to a minimum.
- interruptions shall be kept to a minimum.

 3. Unless otherwise noted, all gas and water utility materials and construction methods shall be in accordance with the standards specification for gas and water systems construction and maintenance DPU no. 1–92, lotest edition. The City of Richmond's sewer specifications and the latest editions of the Virginia Department of Health Waterworks Regulations, and Proposed Sewage Collection and Treatment Regulation. 4. Locations of existing utilities across or along the line of the
- proposed work are shown only in an approximate location on the plans, Contractor shall locate all underground lines and structures as necessary. Contractor shall call "Miss Utility" •
 1-800-522-7001 prior to construction and is responsible for any
- damage to underground lines or structures.

 5. Gate valves shall be U.S. pipe, metroseal 250, open right (clockwise), with mechanical joint end fittings, non-rising system.

 6. Fire hydrants shall be U.S. pipe, metropolit
- (clockwise) with 4 1/2" valve opening.

 7. All fire hydrants and valves boxes designated to be removed shall be salvaged and delivered to the Department of Utilities at 400 Jefferson Davis Highway.

 8. All gas and water services and sewer connections shall be renewed as directed by the City of Richmond, Department of Public Littlifes Footbare.
- Utilities Engineer.

 9. Contractor is responsible for obtaining all permits.

 10. Datum for all elevations shown is National Geodetic Survey.
- (year affliation)

 11. Minimum depth of cover for gas and water mains is 42 inches.

 12. Water maintains shall be ductile iron, double coat cement lined as manufactured by U.S. pipe, or equal. Pipe class shall be as

	POR THE PROPERTY OF THE PERSON NAMED IN		
Dia. (inches)	Special Class		
3	52		
4	53		
6	52		
8	52		
10	52		
12 and Larger	51		

13. The city will inspect all gas, water and sanitary sewer mains, connections and appurtenance to insure that the materials and construction methods are in accordance with the approved plans, specification and standards. All other lines and connection will be inspected and approved by the Department of Building Inspectors. inspected and approved by the Department or Eularian inspectors.

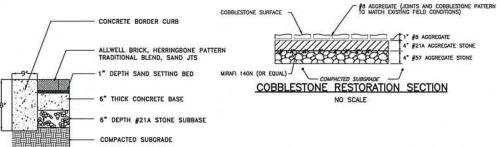
14. The contractor shall request volve operation by the owner's force no less than 48 hours in advance. The contractor shall not operate any existing volves unless directed by owner.

15. The city does not guarantee a 100% percent shutdown of its existing water mains. The contractor shall provide all plugs and department equipment accessors to existing the work. dewatering equipment necessary to perform the work. 16. Mechanical joint long solid sleeves shall be used to ical joint long solid sleeves shall be used for all

10. Mechanical joint long solid sleeves shall be used for all connections to existing water mains.

17. Couplings for connections to existing sanitary sewer laterals shall be fernce or equal.

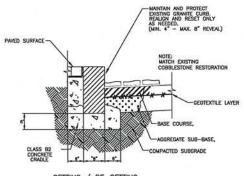
18. Based on city records, existing sanitary sewer laterals are assumed to be 6 inch within the right-of-way and 4 inch on



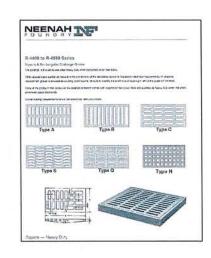
BRICK TRAIL EDGE SECTION ELEVATION ASPHALT PAVEMENT

@ BACK OF CURB

NO SCALE



SETTING / RE-SETTING T'D. 8" X 18" GRANITE CURB BRACE AND BLOCK ON FINAL GRADE. OBTAIN SITE FIELD APPROVAL PRIOR TO CONCRETE POUR. CURB HEIGHT SHALL TYPICALLY BE 8° ABOVE EDGE OF PAVEMENT.







	Administrative	Technical	
IP X		Surveys Superintendent	
Responsive Peo	Capital Project Administrator	Project Manager	∕ ^α
	City Engineer	Waintenance Engineer	
AUTHORITY:	Director of Public Works	City Traffic Engineer	/
DESIGN BY: DRAWN BY: CHECKED BY:		DEPARTMENT OF RICHMOND	~ Г

RICHMOND, VIRGINIA

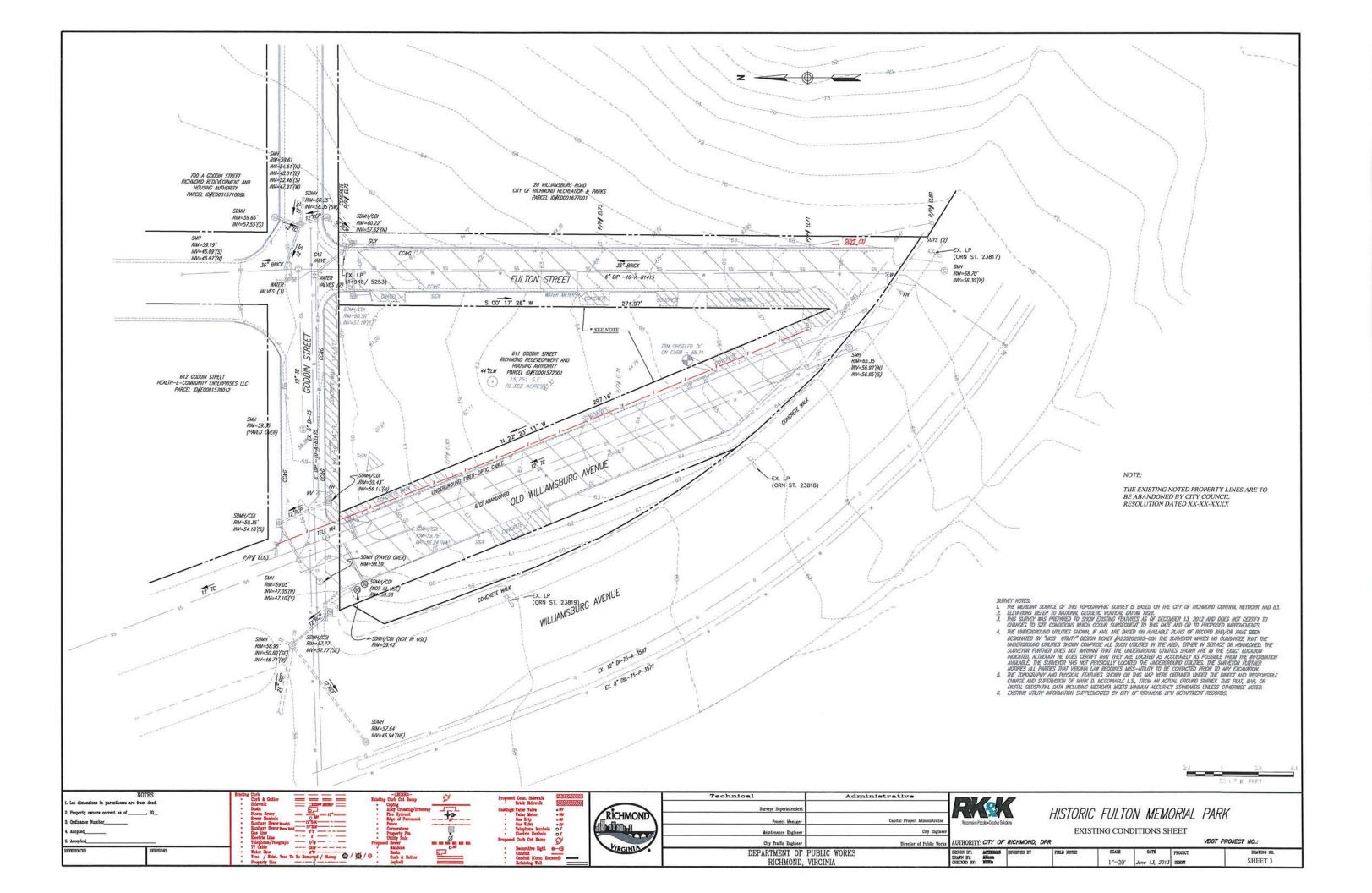
HISTORIC FULTON MEMORIAL PARK

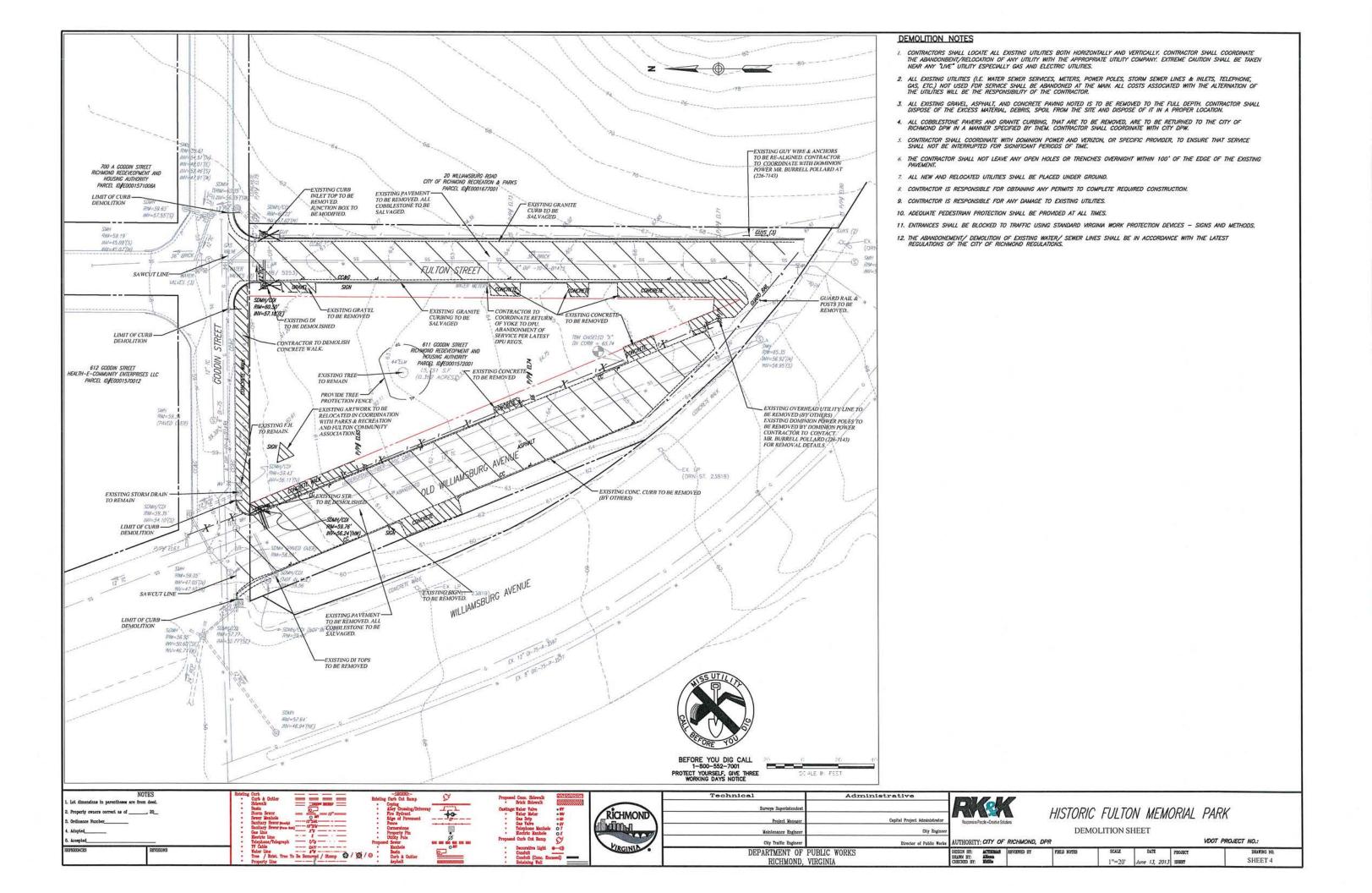
GENERAL NOTES & DETAIL SHEET

CITY OF RICHMOND, DPR VDOT PROJECT NO .:

NTS

June 13 2013 SHIKE





EROSION CONTROL NARRATIVE:

STS OF REMOVING AN EXISTING ROAD SECTION FROM THE CITY OF RICHMOND/RIGHT OF WAY LINE THEN CONSTRUCTING. A 12 WIDE PATH IN THE XXIMATELY 1.32 ACRES WILL BE DISTURBED DURING CONSTRUCTION.

THIS THOSE SEPROMANTELY 12 ACRES WILL BE DISTURBED DURING CONSTRUCTION.

ALTER PACE CONTROLS

THE STE IS CURRENTLY AN OPEN SPACE WITH VARYING PAVEMENT STYLES THE SITE IS SERVED BY AN EXISTING STORMWATER SYSTEM OF VARYING SIZES, MAINTAINED BY THE CITY OF RICHMOND DPW.

-ADMIGHT AREAS:
THE PROJECT IS SOURCED BY WILLIAMSBURD ROAD TO THE SOUTH VARIOUS RESIDENCIES/COMMERCIAL LOTS ON THE NORTH EASTERN PORTION OF THE SITE. FLUTD
STREET ADJONS THE EASTERN PORTION OF THE PROJECT, GODON STREET TO THE KORTH, AND WILLIAMSBURG ROAD OF THE WEST, SURRENOWARD DEVELOPMENT IS
STREET ADJONS THE EASTERN PORTION OF THE PROJECT ARE DEVELOPED. THE KORTH, AND WILLIAMSBURG ROAD ON THE WEST, SURRENOWARD DEVELOPMENT IS
CURRENITY STREAM OF THE PROJECT ARE ANTICIPATED TO BE AFFECTED BY THE LAND DISTURBANCE AS THEY HAVE PREVIOUSLY BEEN DESIGNED TO
ADJOCANT AREAS DOWNSTREAM OF THE PROJECT ARE ANTICIPATED TO BE AFFECTED BY THE LAND DISTURBANCE AS THEY HAVE PREVIOUSLY BEEN DESIGNED TO
ACCOMMIDATE THE DEVELOPED CLOWS.

OFF-SITE AREAS AND DISTURBING I E ANEAS:
INSTAIRING ACTIVITIES WILL OCCUR WITHIN THE EXISTING ROAD RW OF FULTON & WILLIAMSBURG AVE. STREET IMMEDIATELY ADJACENT TO THE SUBJECT
RTY. THE SITE IS ANTICIPATED TO BALANCE. ANY EXCESS SOIL SHALL BE TEMPORARILY STOCKPILED ON SITE AND DEPOSITED AT THE SITE.

ATTE SOILS:
THE NRCS WEB SOIL SURVEY DESIGNATES THE MAJORITY OF THE SITE AS URBAN LAND (41) SEE SOILS MAP SHOWN THIS SHEET.

SOILS OF THE URBAN LAND SERVES CONSIST OF LAND THAT HAS BEEN SO ALTERED OR OBSCURED BY URBAN WORKS, STRUCTURES, PAVING, AND EARTH MOVING THAT LASSIFICATION OF SOILS IS NOT FEASIBLE.

QUANTITIES FOR ESS QUANTITIES:

-PERMANENT STABILZATION:

THE SITE WILL BE PERMANENTLY STABILIZED UTILIZING SEEDING / LANDSCAPING IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENTATION CONTROL HANDSOOK ONCE FINE GRAQUING IS COMPLETE, (SEE ASSOCIATED TABLES), SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE FINE OWNER TO STABLED ON THE PERMANENT STABILIZATION SHALL BE FINE FOUNDATION. SLOPE STABLED ON THE PERMANENT STABILIZATION SHALL BE FINE FOUNDATION. SLOPE STABLED ON THE PERMANENT STABILIZATION SHALL BE FINE FOUNDATION. SLOPE STABLED ON THE PERMANENT STABILIZATION SHALL BE FINE FOUNDATION. SLOPE STABLED ON THE PROJECT SITE IS INCLUDED WITHOUT STABILIZATION SHALL BE FINE FOUNDATION. STABLED ON THE PROJECT SITE IS INCLUDED WITHOUT STABLED WITHOUT ST TOMB:
OST-DEVELOPMENT RUN-OFF MAPS ARE LOCATED ON SHEET 11 DRAINAGE AREA MAP. REFER TO SHEET 12 FOR DETAILED CALCULATIONS.

N GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING ITEMS SHALL BE

CHECKED IN PARTICULAR.

T. THE SEDIMENT TRAP SHALL BE CLEANED OUT WHEN THE VOLUME OF THE WET STORAGE IS REDUCED BY ONE HALF. A STAME WITH THE SPRAY PAINT MARKER ON THE CLEANOUT ELEVATION SHALL BE IN PLACE IN SEDIMENT TRAP.

2. INLET PROTECTION & GRANGE OUTLETS SHALL BE CHECKED REQULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT RAWAGE. IF INLET PROTECTION RABRIC IS CLOOGED BY SEDIMENT, IT SHALL BE REMOVED AND CLEANED OR REPLACED. IF GRAVEL OUTLET IS CLOOGED BY SEDIMENT, IT SHALL BE REMOVED AND CLEANED OR REPLACED.

ELODGEL BY SEUMENT, IT SPALL BE CHECKED REQULARLY FOR UNDERMINED OR DETERIORATION OF THE FABRIC. SEDMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.

SEDMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.

THE TREE PROTECTION AREAS SHALL BE CHECKED REQULARLY TO ENSURE PROTECTIVE FENCE IS MAINTAINED AND TREES ARE PROTECTED.

5. SEDIMENT SHALL BE REMOVED FROM BEHIND THE TEMPORARY CHECK DAMS WHEN IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE DAM.

CITY OF RICHMOND - EROSION CONTROL NOTES

- MANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION HE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN MANT INDISTRIBUTED FOR CHOOSE THAN 30 DAYS. PERMANENT STRAUGLATION SHALL BE APPLIED TO AREAS THAT MAY BE OF THE ORIGINATH FOR MAINT MANT INDISTRIBUTED FOR CHOOSE THAN 30 DAYS. PERMANENT STRAUGLATION SHALL BE APPLIED TO AREAS THAT MAY BE OF THE ORIGINATH FOR MAINTENING THE ORIGINATION OF THE
- THAN DNE YEAR.

 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 GRASS THE PRIST SITE OF THE LAND BITHERIBRIO ACTIVITY.

 EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED SO THAT SEDIMENT CARRYING RUNOFF FROM THE SITE WILL NOT ENTER STORM DRAINAGE.

- PRIOR TO GR AS THE FINE) IS IT OF THE THIRD IS CONTROLS SHALL BE MAINTAINED SO THAT SEDIMENT CARRYTING MUNICIPAL PROPERTY OF THE CARRYTING AND SEDIMENT CONTROL SHALL BE MAINTAINED UNTIL THE DISTORAGE OF MAINTENED AND THE SITE BY VEHICULAR TRAFFIC OR RUMOFF, PROPERTIES ADJOINAND THE SITE BY AND THE DISTORAGE OF THESE FACILITIES SHALL BE IN ACCORDANCE WITH THE VIRDING EROSION SEDIMENT CONTROL HANDBOOK.
 STABLIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION, DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKMES SHALL BE STABLIZATION OF PROTECTED WITH SEDIMENT TRAFFING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE LEAFMONT FOR THE CARRYTING MUNICIPAL PROPERTY OF THE CARRYTING AND PRIMARY FARBURD.

GENERAL E&S CONTROL NOTES

ES-1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMAM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS AVACOSO GEROSION AND SEDIMENT CONTROL REGULATIONS AVACOSO GEROSION CAN SEDIMENT CONTROL REGULATION CAN SEDIMENT CAN SEDIMENT

ES-2. THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTURCTION CONFERENCE, ON 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 SITE AT ALL TIMES.

ES-A PRIOR TO COMMENCING LAND DISTRUBING ACTIVITES IN AREAS OTHER THAN INDICTED 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 DWINER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-4. 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 ACHIEDVED.

ES-8. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ES-4. 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.

SILT FENCE NOTES

POSTS FOR SILT FENCES SHALL BE EITHER 2 INCH DIAMETER OAK, 4 INCH DIAMETER PINE OR 1.33 POUNDS PER LINEAR FOOT STEEL. POSTS WILL BE A MINIMUM OF 5 FEET IN LENGTH. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.

WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT, A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF B INCHES.

POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MIN. OF 12 INCHES WHEN EXTRA STRENGTH FABRIC IS USED. WITHOUT THE WIRE SUPPORT FENCE, POST SHALL NOT EXCEED 6 FEET.

WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POST.

SEDIMENT MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

UNDER NO CIRCUMSTANCES SHOULD SILT FENCE BE INSTALLED IN LIVE STREAMS.

SILT FENCE SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.

SEEDING NOTES

- SEEDING NOTES

 ALL STABLESTATIONSEEDING WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDMENTATION CONTROL IMMIDBOOK.

 ALL STABLESTATIONSEEDING WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDMENTATION CONTROL IMMIDBOOK.

 ANY DISTURBED AREA NOT PAYED, SCODED, OR BUILT LIFON, WILL HAVE A VEGETATIVE COVER PRIGHT TO FAMIL INSPECTION, AND IN THE OPINION OF THE ENVIRONMENTAL BENDIERS. WILL BE MEMBER ENDIGHT OF CONTROL SOIL EROSION ASSTERATIONS AND SERVICE WELTHAR CONDITIONS.

 STIERAN DIVERSION AREAS, WATERWAYS, BANKS AND RELATED AREAS WILL BE SECRED AND MULCHED IMMEDIATELY ATTER WORK IN WATERCOURSE IS COMPLETED. IN ON CASE SHALL WELLAND SALES BE RE-SEEDED WITH ANY SPECES OF FESCUE.

 WINTERIZATION ANY DISTURBED AREA NOT PAYED, SODDED OR BUILT UPON BY OCTOBER 15 IS TO BE SEEDED AND MULCHED ON THAT DATE UNLESS WAIVED BY THE ENVIRONMENTAL ENGINEER.
- ENVALUANMENTAL ENGINEER.

 I ENAPORATY SECOND WILL BE APPLIED WITHIN 7 DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS, FOR TEMPORARY SEEDING USE 50% OF THE RECOMMENCED RATES OF FERTILIZER, LINE AND FULL AMOUNT OF SEED AND MULCH REQUIRED FOR REGULAR SECOND.
- FOR REGULAR SEEDING.
 ELECTRIC POWER, TELEPHONE, AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED AND MULCHED WITHIN 7 DAYS AFTER BACKFILL.
 ELECTRIC POWER, TELEPHONE, AND GAS SUPPLY TRENCHES ARE TO BE MACHIGED FOR VEGETATIVE COVER MARGENTELY AFTER GRADING, STRAW OR HAY
 MALCH IS REQUIRED. THE SAME APPLES TO ALL STOCKPIES, ON SITE AS WELL AS SOL (INTENTIONALLY) TRANSPORTED FORM THE PROJECT SITE.

APPLICABLE MINIMUM STANDARDS (EROSION AND SEDIMENT CONTROL LAW AND REGULATIONS)

- MS-1: PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENLIDED 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 DESIDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DOKANNET FOR LONGER THAN SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

 MS-2: DURING CONSTRUCTION, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES TEMPORARY PROTECTION AND PERMANENT STABILIZATION SHALL BE APPLIED TO ALL SOIL STOCKPILES ON SITE AND BORROW AREAS OR SOIL INTENDIONALLY TRANSFERRED OF STREAMS FOR THE APPLIED TO ALL SOIL STOCKPILES ON SITE AND BORROW AREAS OR SOIL INTENDIONALY TRANSFERRED OF STREAMSHED ON DENLIDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED STRABLISHED UNIT AL ORDUNG COVERTS ACHIEVED THAT IS UNIFORM MATURE DIOUGH TO SURVIVE

- AND WILL INHIBIT EROSION
 SEDMENT BASINS AND TRAPS, PERMETER DIKES. SEDMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDMENT SHALL BE
 CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL DEFORE UPSLOPE LAND DISTURBANCE
- CONSTRUCTE TAKES PLACE MS-5: STARRIPA IN MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER IATION. NT TRAPS AND BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR
- SEDIMENT TRAPS AND BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN AS FOLLOWS:

 SEDIMENT TRAP

 SEDIMENT TRAP

 SEDIMENT TRAP

 UNIVERSAL STATES OF THE SEDIMENT SHALL SESS THAN THREE ACRES.

 HINKINGH STORAGE CAPACITY OF TAY QUBIC YARDS PER ACRE OF DRAINAGE AREA.

 SEDIMENT BASINS

 CONTROL DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES.

 -INNIVAL STORAGE CAPACITY OF TAY QUBIC YARDS PER ACRE OF DRAINAGE AREA.

 -INNIVAL STORAGE CAPACITY OF TAY QUBIC YARDS PER ACRE OF DRAINAGE AREA.

 -OUTTAL LYSTED AHALL AT A MARMAM, MAINTAIN THE STRUCTURAL HITCORTY OF THE BASIN DURING A TWENTYFIVE YEAR STORM OF 24-HOUR.
- DURATION

 CUT AND PILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE EROGING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZATIO MEASURES UNIT. THE PROPER US CORRECTED.
- UNTIL THE PROBLEM IS CORRECTED.

 NIN-ID: ALL STORM SEVER INCITE THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER ANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT PIRST BEING FLITERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

 MS-11: BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PRESS 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.
- S. BOUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA A AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VRG25-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS IN
- EROSION AND SEDIMENT CONTROL HANDBOOK AND VINCIUM RESULVATIONS TO THE APPLICABLE OF THE APPLICABLE CRITERIA. THE APPLICABLE CRITERIA AND THE RESECT PARTS OF THE PROPERTY OF THE APPLICABLE OF T
- LOADS BY SHOVELING OR SYMEPHING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED MAY AFFER SEDIMENT IS REMOVED BY THIS MANNER. ALL TEMPORARY EXCISION AND SEDIMENT CONTROL MESSURES SHALL BE REMOVED WITHIN 30 DAYS AFFER FIRMA, SITE STABLEVOR AFFER FIRMA. SITE STABLEVOR AFFER FIRMA STREET STABLEVOR AFFER FIRMA METHOD AFFER FIRMA STREET STABLEVOR AFFER FIRMA STABLE
- TO PREVENT FURTHER ENGINEN AND SEDMENTATION.

 PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDMENT DEPOSITION, ERGISION AND
 DAMAGE DUE TO INCREASES IN VOLUME. VELOCITY AND PEAK FLOW RATE OF STORMWATER RUN-OF FOR THE STATED FREQUENCY STORM OF
 24-HOURD DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA, REFER TO SITE FLAM FOR PLUI, STORMWATER

NOTE:
OUE TO THE NATURE OF THIS SPECIFIC PROJECT, THE FOLLOWING MINIMUM STANDARDS ARE NOT APPLICABLE: MS-8, MS-9, MS-12, MS-13, MS-14, MS-15.

TEMP	ORARY SEEDING	PLANT MATE	ERIAL	S, 5	SEED	ING I	RATE	S, A	ND DATES
	SEEDING	RATE	NO	RTH			SOUTH Sb		PLANT
SPECIES			3/1 10 4/30	5/1 to 8/15	8/15 to 11/1	2/15 to 4/30	5/1 to 9/1	9/1 to 11/15	CHARACTERISTICS
OATS (Avena sativa)	3 bu. (up to 100 lbs.) not less than 50 lbs.)	2 lbs.	×	-	-	x	-	-	Use spring varieties (e.g., Noble)
RYE Sd (Secale cereale)	2 bu. (up to 110 lbs. not less than 50 lbs.)	2.5 lbs	×	-	×	X	-	x	Use for late fall seedings, winter cover. Tolerates cold and low moisture.
GERMAN MILLET (Setoria Italica)	50 lbs.	approx. 1 lb.		×	-	=	x	-	May be added in mixes. Will mow out of most stands.
NNUAL RYEGRASS[sc (Lolium multi-florum)	60 lbs.	1½ lbs.	x	-	×	×	-	×	ANNUAL RYEGRASSisc (Lolium multi-florum)
WEEPING LOVEGRASS (Erograstis curvula)	15 lbs.	5½ ozs.	-	x	-	-	x	-	Worm-season perennial. May bunch. Tolerates hot, dry slopes and acid, infertile soils. May be added to mixes.
KOREAN LESPEDEZA Sc (Lespedeza stipulacea)	25 lbs.	approx. 1½ lbs.	x	×	-	×	х	15	Warm season annual legume. Tolerates acid soils. May be added to mixes.

DROP INLET PROTECTION

NOT TO SCALE

ELEVATION OF STAKE AND FABRIC ORIENTATION
NOT TO SCALE

Northern Pladmant and Mountain region. See Plates 3.22-1 and 3.22-2. Southern Plamand and Coastal Plain. Way be used as a cover crop with spring seeding. May be Used as a cover crop with full seeding. May be Used as a cover crop with full seeding. May be joined between these odtes.

		EMPORARY SEEDING PUREFERENCE FOR ALL I	
IT RISTICS	Planting Dates	Species	Rate (lbs./ac
ieties (e.g., Noble).	Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Lollum multi— florum)	50 - 100
ill seedings, winter s cold and low		Cereal (Winter) Rye (Secale cereale)	
in mixes. Will ost stands.	Feb. 16 - Apr. 30	Annual Ryegrass (Lolium multi- florum)	60 - 100
ASS se (lorum)	Commence Constitution	SANCE CONTRACT OF SANCE	
perennial. May a hot, dry slopes tile soils. May be	May 1 - Aug. 31	German Millet (Setario italica)	50
onnual legume.	LIMING RE	QUIREMENTS FOR TE	MPORARY SITES

REQUIREMENTS FOR TEMPORARY SITES Agricultural Limestone

Rate (lbs./acre)

			RATES	DATES		
SITE CONDITIONS	SEEDING MIXTURES	PER ACRE	PER 1000 ft s2	3/1 to 4/15	4/15 to 8/1	8/1 to 10/15
High Maintenance Lawns	1. Tall fescue-90% Kentucky bluegrass-10%	250 lbs.	6 lbs.	x	no	×
Low Maintenance General Use	2. Tall fescue-50% Ladino clover-10% Red clover-10% Korean lespedeza-15% Annual ryegrass-15%	80 lbs.	2 lbs.	x	(a,b) X	×
	3. Tall fescue-50% Sericea lespedeza-30% Annual ryegrass-20%	70 lbs.	1½ lbs.	×	(a) X	×
Droughty Area, Sandy Soils	4. Tall fescue-50% Sericea lespedeza-20% Korean lespedeza-15% Annual ryegrass-15%	80 lbs.	2 lbs.	x	(a,b)	×
Poorly Drained Areas	5. Tall fescue-60% Korean lespedeza-20% Annual ryegrass-10% Redtop-5%	80 lbs.	2 lbs.	x	(a,b) X	x

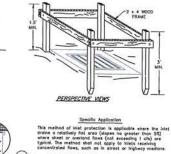
Also Sal Loop.

1905 Book Brancer

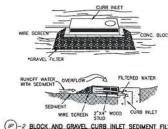
2001	11	KAI	LS			
8/1 to	MULCHES	Per Acre	Per 1000 sq.ft.	NOTES		
10/15	Straw or Hay	1½ - 2 tons (Minimum 2	70-90 lbs.	Free from weeds and coarse matter. Must be anchored, Spread with		
×		tons for over winter cover)		mulch blower or by hand.		
-	Fiber Mulch	Minimum 1500 lbs	35 lbs.	Do not use as mulch for winter cover or during hot, dry periods. * Apply as slurry		
×	Corn Stalks	4-6 tons	185-275 lbs.	Cut or shedded in 4-6" lengths. Air-dried. Do not use in fine turf oreos. Apply with mulch blower or by hand.		
×	Wood Chips	4-5 tons	185-275 lbs.	Free of coarse motter. Air-dried. Treat with 12 lbs nitrogen per ton. Do not use in fine turt greas. Apply with mulch blower, chip handler, or by hand.		
×	Bark Chips Or Shredded Bark	50-70 cu. Yds.	1-2 cu. Yds.	Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blawer, chip handler, or by hand.		
1.^_	* When fiber m	nulch is the only	available mulch	during periods when strow should be		

ORGANIC MULCH MATERIALS AND APPLICATION RATES

used, apply at a minimum rate of 2000 lbs./ac. Or 45 lbs./1000 sq. ft. BURNED



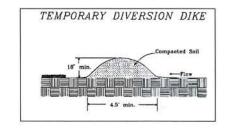
(P)-1 SILT FENCE DROP INLET PROTECTION
STD. & SPEC. 3.07-1
NOT 10 SCALE

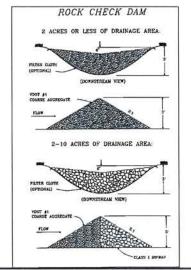


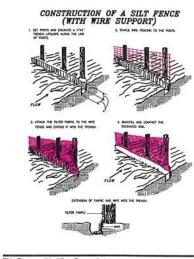
/P)-2 BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER
510. 4 SPEC. 307-8
Specific Application

is method of injet protection is applicable at curb injets where erflow copobility is necessary to prevent excessive pending in front of the structure.

*Gravel shall be VDOT #3, #357, or #5 coarse aggregate.





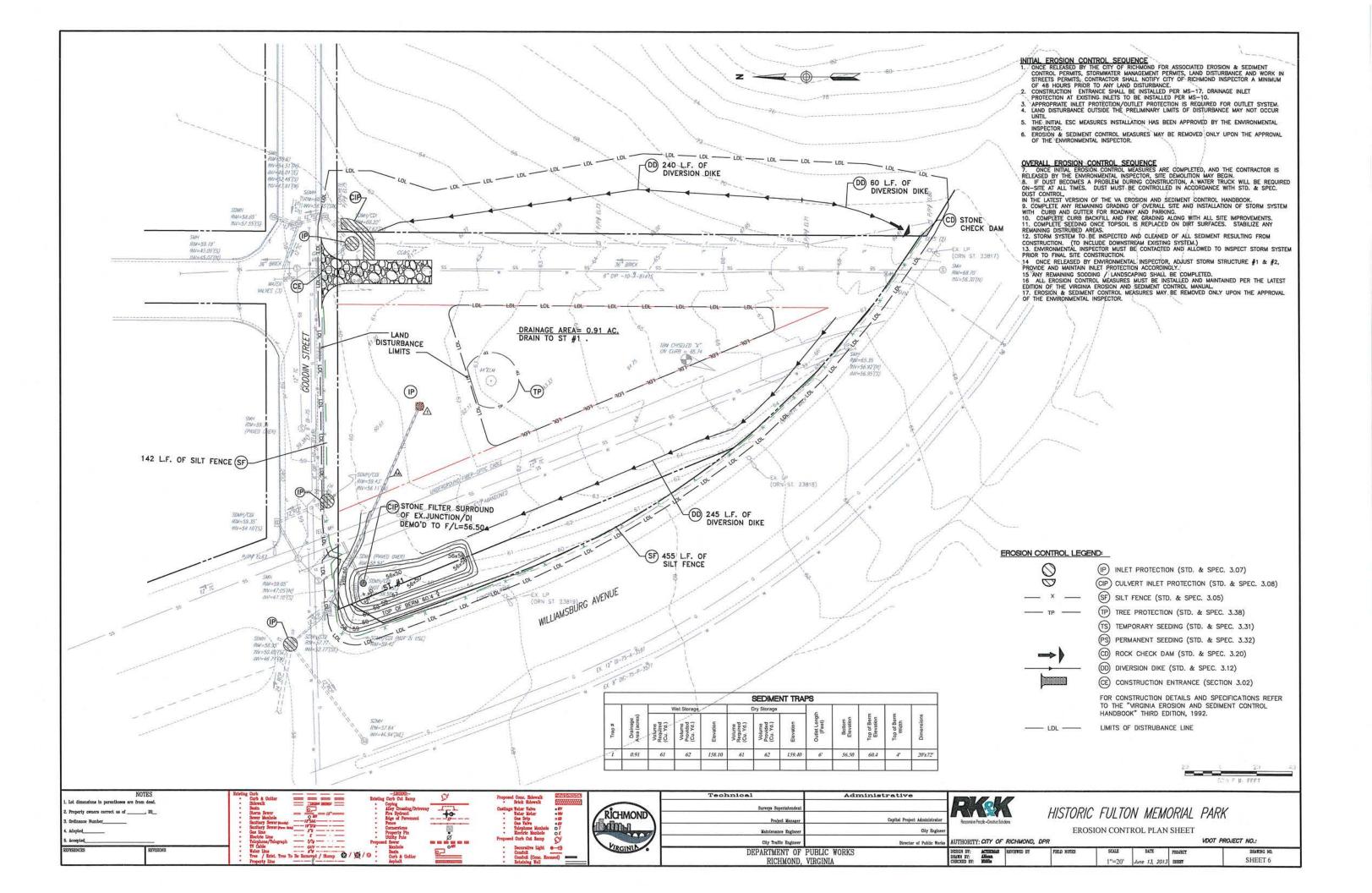


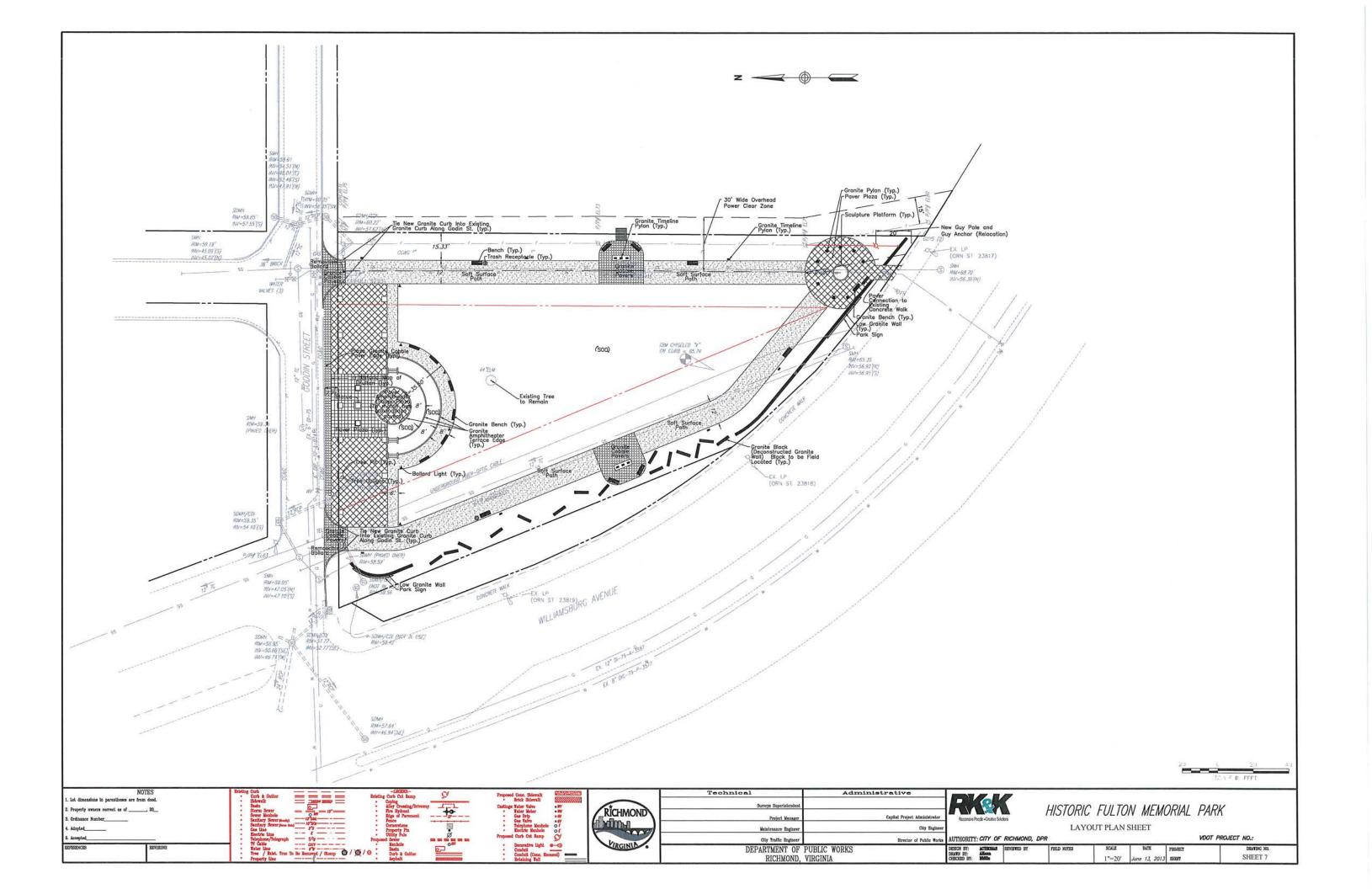
Rock Check Dam	
Plote 3.20-1	DCR STD. & SPEC.

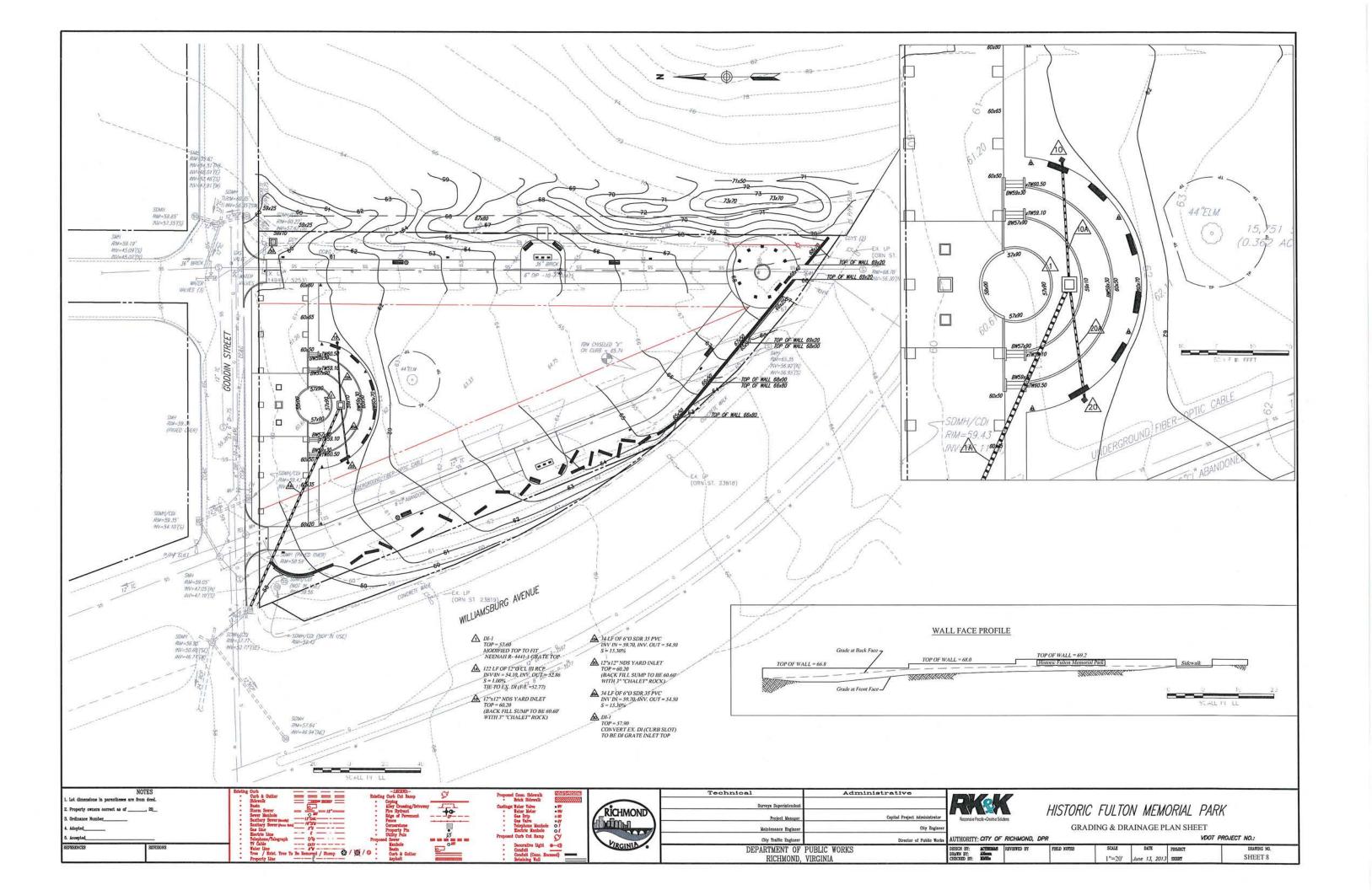
Silt Fence with Wire Support

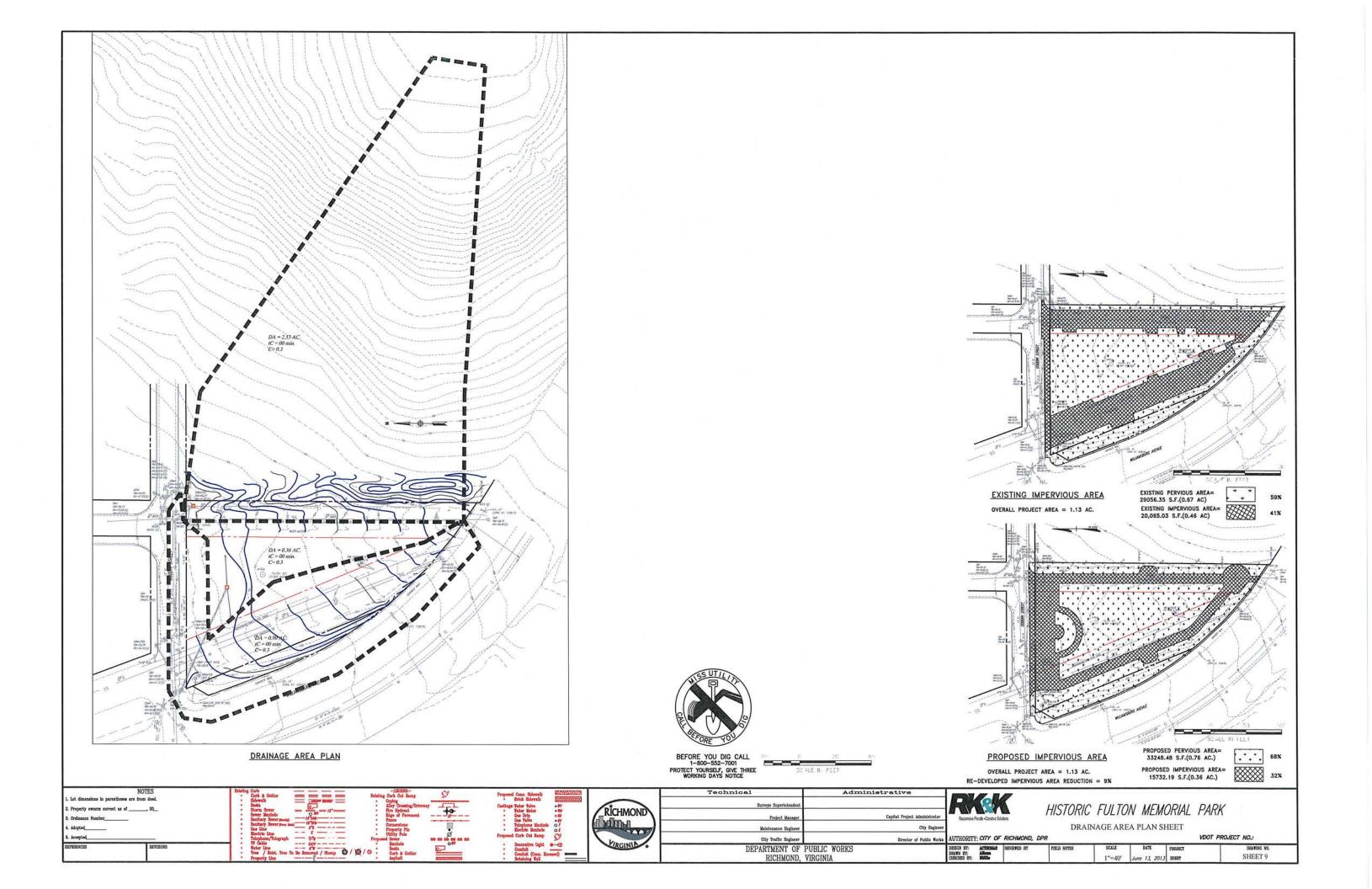
NOTES	Existing Curb Curb & Gutter	-:LEGEND:- Existing Curb Cut Ramp	Ø	Proposed Conc. Sidewalk		Technical	Administrative			EFF.						
Lot dimensions in parentheses are from deed. Property owners correct as of	Sidewalk Basin Storm Sever	Coping Alley Crossing/Driveway Pire Hydrant	- To	Brick Sidewalk Castings: Vater Valve • W Vater Meter • W	PICHMONID	Surveys Superintendent		R			HISTORIC .	FULTO:	N MEN	IORIAL PA	RV	
3. Ordinance Number	Sewer Manhole Sanitary Sewer (Savety) 12 SAN.	Edge of Pavement Fence		- Gas Brip a co	KICHMOND\	Project Manager	Capital Project	Administrator Respo	sive People - Creative Sol	Rutions	IIISTUNIO I	ULTUI	V IVILIVI	UNIAL I A	MA	
. Adopted	- Sanitary Sewer (Nove Made) 10 SW 20 - 20	- Cornerstone - Property Pin	153	Telephone Manhole O I Electric Manhole O E		Maintenance Engineer		City Engineer			EROSIO	N & SED	IMENT C	ONTROL NOT	ES	
s. Accepted	Bectric Line Telephone/Telegraph T/19	Proposed Sewer III	Ø	Proposed Curb Cut Ramp		City Traffic Engineer	Director	of Public Works AUTHOR	ITY: CITY OF	RICHMOND, DPF				VDO'	T PROJECT NO.:	
REFERENCES REVISIONS	• Tv Cable • Valer Line • Tree / Krist. Tree To Be Removed / Stomp	Basin Curb & Gutter Asphalt		Decorative Light Conduit Conduit (Conc. Encased) Relaining Vali	PRGINIA.	DEPARTMENT OF RICHMOND,	PUBLIC WORKS VIRGINIA	DESIGN BY DRAWN BY: CHECKED I	ACTHOMAS AMann Y: Wills	REVIEWED BY	FIELD NOTES	SCALE N.T.S.	DATE June 13, 201.	PROJECT 13 SHEET	DRAWING SHEET	

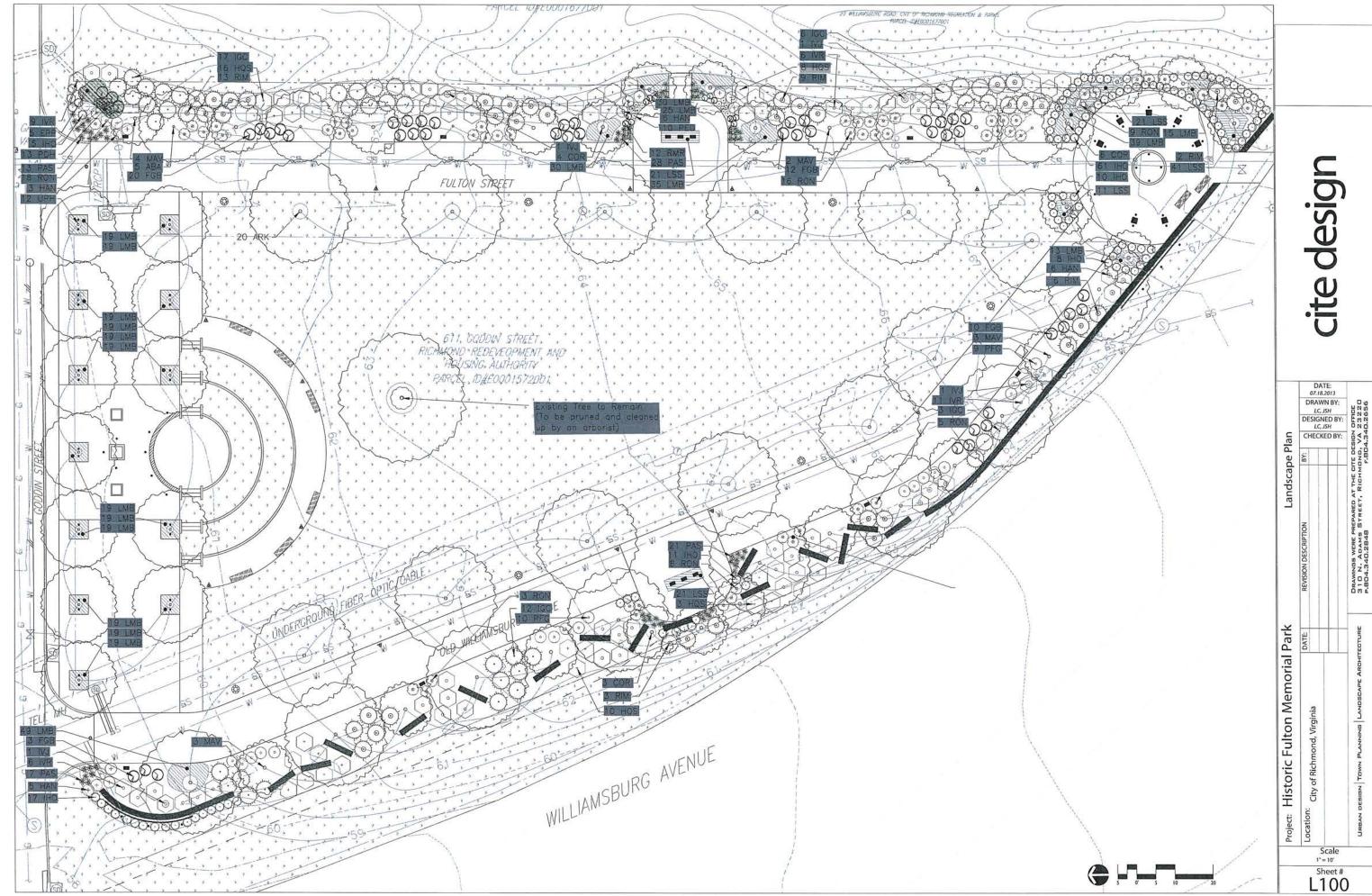
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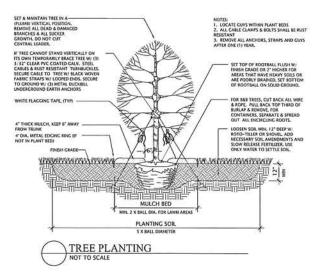


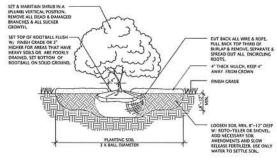




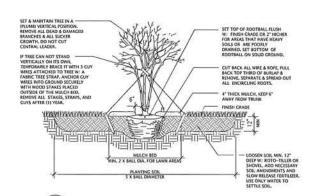




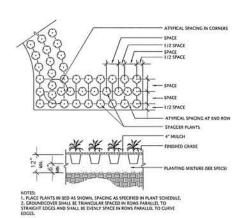




SHRUB PLANTING



MULTI-TRUNK TREE PLANTING



GROUNDCOVER PLANTING

Planting Notes:

- 1. The utilities shown are for the contractor's convenience only. There may be other utilities not shown on these plans. The landscape architect assumes no responsibility for the locations shown and it shall be the contractor's responsibility to verify the locations of all utilities within the limits of work. Contractor shall contact "Miss Utility" and have all underground utilities marked prior to any land disturbance operations.
- 2. Contractor shall verify plant material quantities shown on plan with totals in planting schedule. Notify Landscape Architect of any discrepancies prior to final bidding.
- 3. All plant materials shall be guaranteed for one full year to be in a healthy growing condition. Plant materials which do not fulfill this guarantee shall be replaced at no cost to the owner. Replacement shall be guaranteed throughout the original guarantee period. Plants that die shall be replaced immediately
- 4. Contractor is responsible for watering all plant material during installation and until final inspection and acceptance by owner. Contractor shall not assume irrigation system is fully operational at completion of planting installation.
- 5. Contractor is responsible for contacting Miss Utility prior to beginning of construction for location of all utility lines. Trees shall be located a minimum of 5 feet from sewer/water connections.
- 6. All plant materials, topsoil, mulch, fertilizers, soil amenities, planting supplies and methods shall be subject to LA approval. Rejected materials shall be removed from the site without delay.
- 7. All plant materials and planting methods shall conform to A.A.N. Standards.
- 8. Contractor shall layout and mark location for all plant material, planting, and improvements shown and request in field approval from LA.
- 9. Beds to contain shrubs or ground cover shall be tilled to a depth of 6" and the soil conditioned by adding clen, well rooted manure. If existing soil is considered to be unusable by owner, beds shall be treated to eliminate weeds and weed
- 10. All planting bed areas shall be covered with a 3" min. layer of medium texture shredded hardwood mulch. Unless otherwise noted.
- 11. All substitutions of plant material shall be requested in writing to the landscape architect and approved in writing by the owner.
- 12. All planting operations shall be under the supervision of an experienced plantsman.
- 13. For trees balled in wire baskets, cut and remove top and sides of basket after installation.
- 14. Landscape Architect reserves the right to reject any plants and materials that are in an unhealthy or unsightly condition, as well as plants and materials that do not conform to A.A.N. Standards. See American Standard For Nursery Stock (current edition).

HISTORIC FULTON MEMORIAL PARK'S PLANT SCHEDULE

- 15. Soil shall be free of all weeds
- 16. Any area within the limit of work that is disturbed shall be either re-seeded or mulched to match existing conditions.
- 17. Existing tree to be pruned and cleaned up by arborist.
- 18. Contractor to supply irrigation.

Plant Schedule Explanatory Notes:

- 1. The following plant palette is prepared as a selection of planting materials.
- 2. Where an abbreviation is shown, the following notes apply:

Quan. - quantity of plant materials required for the project.

(Note: contractor responsible to verify quantities indicated. Plan shall take precedence

Abbrv. - Botanical abbreviation

Botanical/common - name of plant material Height - height of plant material

Spread - diameter of plant material Cont. - container type in which plant material is encased upon site delivery (size shall take

precedence over container). Spacing - distance from center of each plant (plan shall take precedence over schedule)

Cal. - caliper/diameter of trunk (refer to specs for more information - caliper shall take precedence over height and spread)

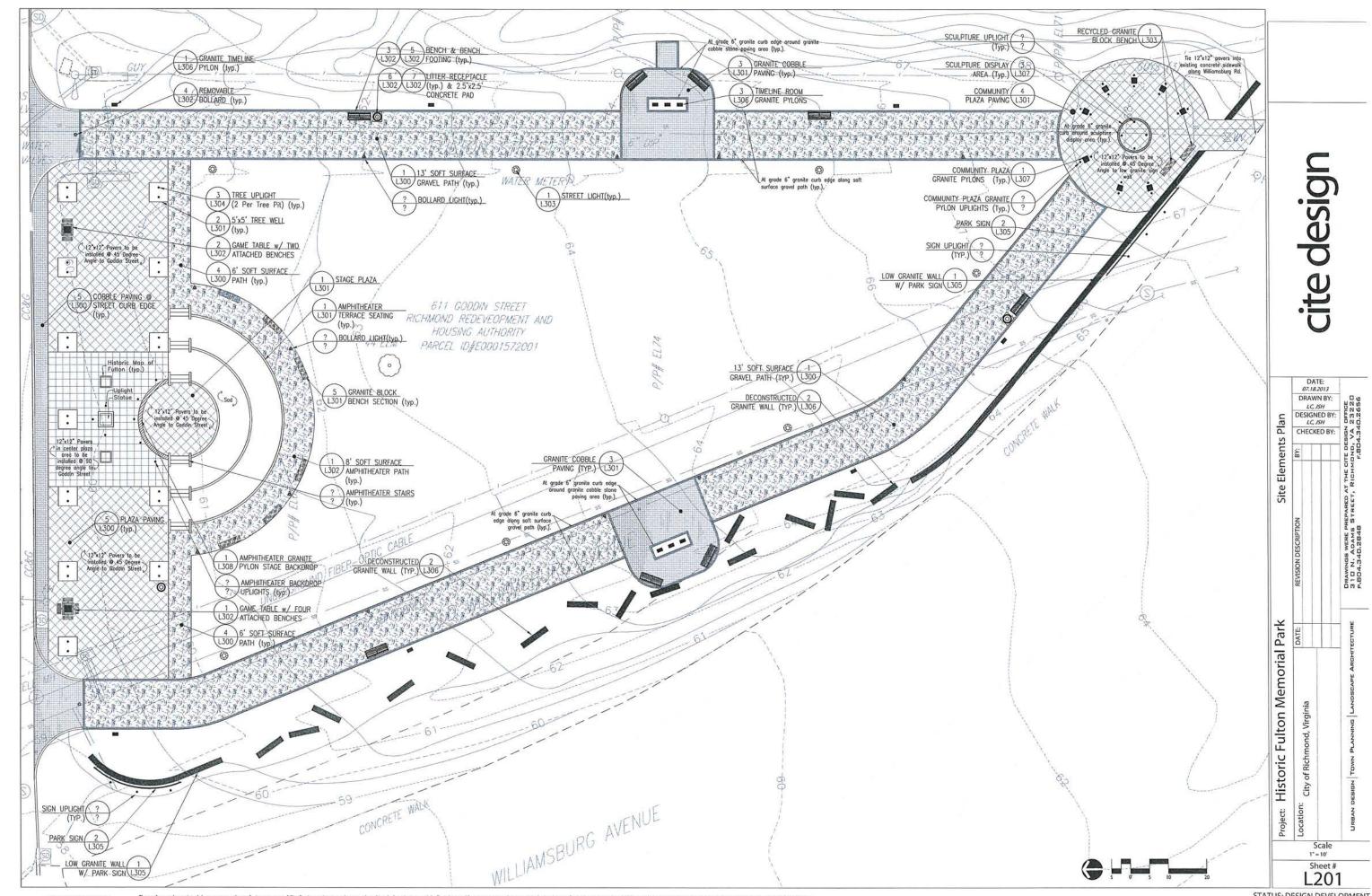
- Notes specific notes further specifying or describing plant material

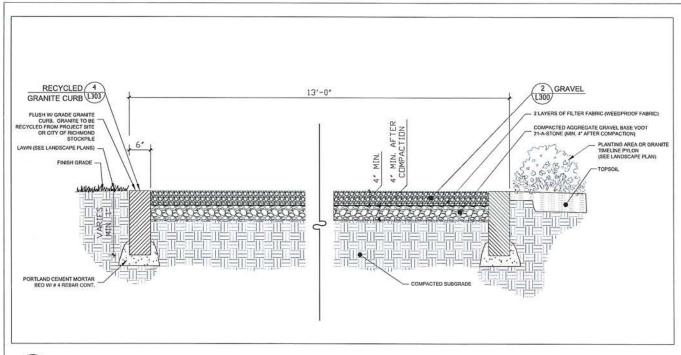
 3. The contractor shall locate all proposed and existing utilities prior to the beginning of work. The contractor shall repair any damage to utilities that are disturbed as a result of the work.
- 4. The contractor shall maintain all grassed areas, including the repair of erosion areas, until the grass has reached the level of final acceptance and throughout maintenance contract period, if applicable.
- 5. All areas that are disturbed by construction inside or outside the limit of work shall be repaired, graded, and grassed.
- 6. All plant beds shall receive double shredded hardwood mulch at a depth of 4".
- 7. All existing trees to be saved will have tree barricades installed around them prior to beginning of demolition. All work in those areas is to be done by hand. Fences shall be maintained and kept in place at all times.
- 8. Provide erosion control where slopes are greater than 3:1 and where erosion is reoccurring.
- 9. All tree, shrub, and ground cover materials shall be planted within 24 hours after delivery.
- 10. Apply weed germination inhibitor ("Preen" or equal) to all plantbed areas.
- 11. Any plants located in direct sun shall be nursery sun grown.

QTY	KEY	BOTANICAL NAME	COMMON NAME	HEIGHT	CALIPER	NOTES
5	ABA	Acer beurgerianum'ABMTF'	Aeryn Trident Maple	12-14'	3 1/2*	B&B, full uniform crown, symmetrical branching, full specimen
20	ARK	Acer rubrum 'Karpick'	Karpick Red Maple	14 - 16'	3 1/2"	B&B, full uniform crown, symmetrical branching, full specimen
12	UPH	Ulmus parvifolia 'Hope'	Hope Lacebark Elm	12-14	3 1/2*	B&B, full uniform crown, symmetrical branching, full specimen
12	or ii	Ones particle rispe	Trope Coteban City	32.14	3 02	pab, at elliptin down, synthet balandining, an specific
SMALL	DECIDU	IOUS TREES				lumin and the second se
QTY	KEY	BOTANICAL NAME	COMMON NAME	HEIGHT	CALIPER	NOTES
13	COR	Cornus x "Rulgan"	Stellar Pink Dogwood	8 - 10'	2 1/2" Min.	B&B, full symmetrical branching
EVERGR	REEN TE	REES				
QTY	KEY	BOTANICAL NAME	COMMON NAME	HEIGHT	CALIPER	NOTES
12	MAV	Magnolia virginiana	Sweet Bay Magnolia	8 - 10"	2 1/2" Min.	B&B, tree form, limbed up to 4", uniform, symmetrical branching, full specimen
SHRUBS	3					
QTY	KEY	BOTANICAL NAME	COMMON NAME	HEIGHT	SPREAD	NOTES
32	FGB	Fothergilla gardenii 'Blue Mist	Blue Mist Dwarf Fothergilla	18" MIN.	18° MIN.	3 gal, healthy, full well formed, rooted & established in container
20	HAN	Hydrangea arborescens 'NCHA1'	Invincibelle Spirit Hydrangea	18 - 24" MIN.	18 - 24" MIN.	3 gal., healthy, full well formed, rooted & established in container
34	HQS	Hydrangea querciblia 'Pee Wee'	Pee Wee Oak Leaf Hydrangea	24° MIN.	24" Min.	3 gal., healthy, full well formed, rooted & established in container
116	IHO	flex creneta 'Hoogendorn'	Hoogendorn Holly	18" MIN.	18" MIN.	3 gal., healthy, full well formed, rooted & established in container
38	IGC	llex glabra "Compacta"	Compact Iniberry Holly	24" MIN.	24° Min.	3 gal., healthy, full well formed, rooted & established in container
4	IVJ	llex verticitata "Jim Dandy"	Jim Dandy Winterberry Holly (Male)	18 - 24° MIN.	18 - 24° MIN.	3 gal., healthy, full well formed, rooted & established in container
29	IVR	liex verticitata 'Red Sprite'	Red Sprite Winterberry Holly	18 - 24" MIN.	18 - 24° MIN.	3 gal., healthy, full well formed, rooted & established in container
19	PFG	Potentila frutcosa 'Gold Star'	Gold Star Potentila	12-18*	15-18*	3 gal., healthy, full well formed, rooted & established in container
57	RON	Rosa x 'Noala'	Flower Carpet Coral Groundcover Rose	18-24" MIN.	15 - 18*	3 gal., healthy, full well formed, rooted & established in container
33	RIM	Rhaphiolepis indica 'Monto'	Indian Princess Indian Hawthorn	18 - 24" MIN.	18 - 24" MIN.	3 gal., healthy, full well formed, rooted & established in container
12	RMR	Rosa Meigapio'	Red Drift Rose	12-18"	15-18*	3 gal., healthy, full well formed, rooted & established in container
PERENN	IIALS, C	ORNAMENTAL GRASSES, FERN	S			
QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COLOR	NOTES
5	EPP	Echinacea purpurea 'Prairie Splendor'	Prairie Splendor Coneflower	3 Gal.		24" o.c., full specimen, healthy, rooted & established
69	PAS	Panicum virgatum 'Shenandoah'	Shenandoah' Switch Grass	3 Gal		30° o.c., full specimen, healthy, rooted & established
13	PDH	Pensterron digitalis 'Husker Red'	Husker Red Pensternon	3 Gal		12" o.c., full specimen, healthy, vigorous, well-rooted & established
10	PED	Pennisetum alopecuroides 'Hamelin'	Dwarf Fountain Grass	3 Gal		18" o.c., full specimen, healthy, rooted & established
	SOD	To match existing SOD/ grass	To match existing SOD /grass	NA.		Landscape contractor to submit sod recommendation to LA for approval
GROUN	DCOVE	RS				
QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COLOR	NOTES
464	LMB	Liriope muscari 'Big Blue'	Big Blue Liriope	1 qt		12" o.c., full specimen, healthy, vigorous, well rooted & established
115	LSS	Liriope spicata 'Silver Dragon'	Silver Dragon Liriope	1 qt		12" o.c., full specimen, healthy, vigorous, we'll rooted & established
Mulch .						

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13' SOFT SURFACE GRAVEL PATH NTS

- 1. Verify Paver install method with paver manufacturer before installation of patio base and pavers.
- Pavers to be installed in a random pattern with 6"x9" edge paver. Coordinate wi LA as needed.
 Fill paver joints with polymeric sand paver set (apply/install per manufacturers recommendations.



Gravel (Honey Dust) Specifications:

Contractor to submit Honey Dust sample for approval by LA

before ordering.
2.) Contractor to add stabilizer if needed. Coordinate with LA 3.) Contractor to use steel edging where Honey Dust is adjacent to planting areas (see plans)





12' x 12' Hanover SlateFace Bluestone Paver Specifications:

Hanover 12' x 12' SlateFace Bluestone Paver

12' x 12' & Blue Stone

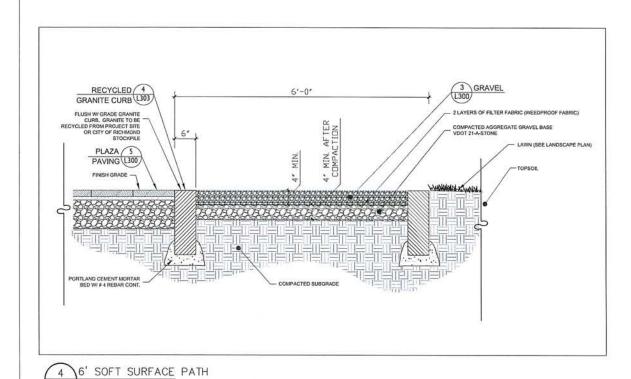
See Plan

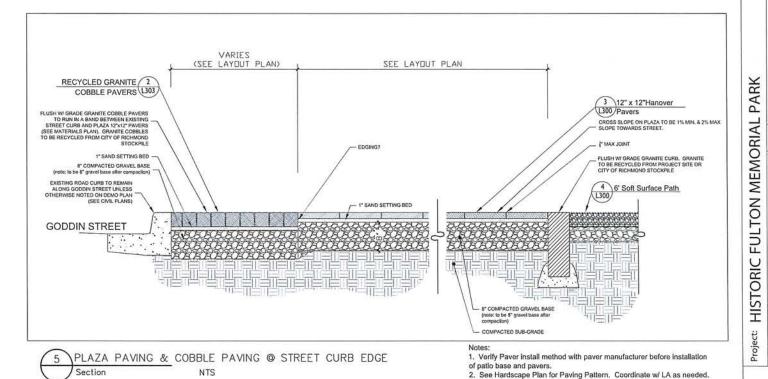
Shade & Wise 2010 Dabney Road Richmond, VA 23230 (p) 804-355-2886

Megan McClenny (p) 804-357-2049

Pavers to be install per manufacturer's recommendations.
 Contractor to coordinate with manufacturer for specifics on base compaction.

12'x12' HANOVER PAVERS Specification





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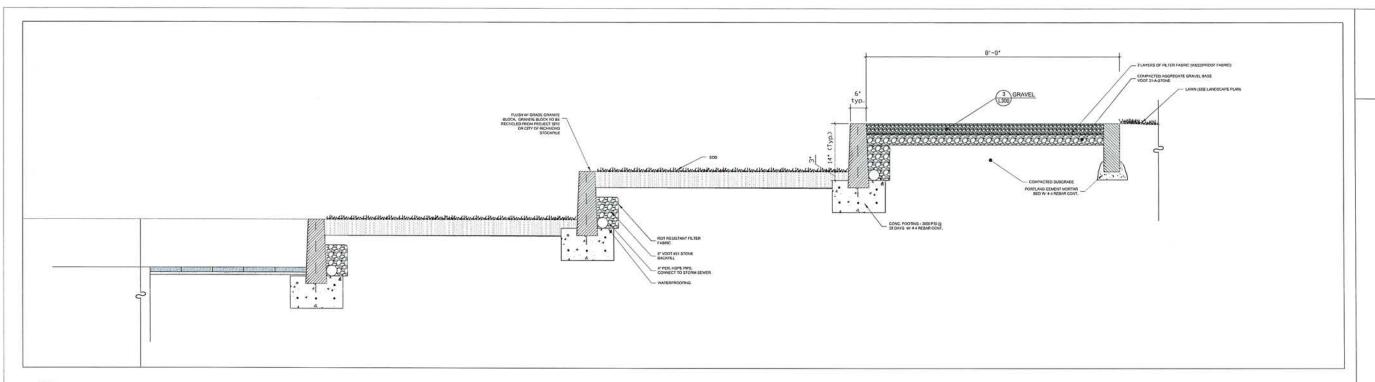
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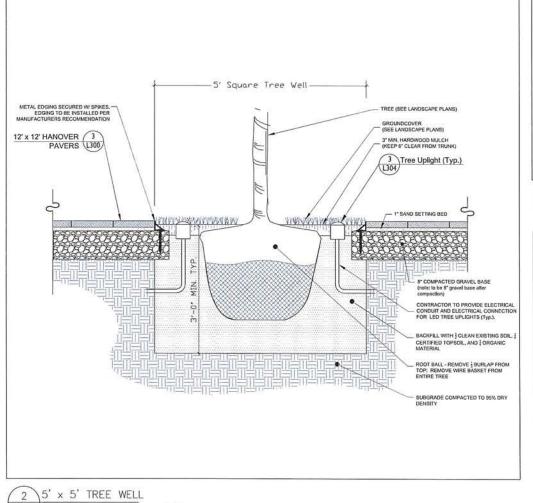
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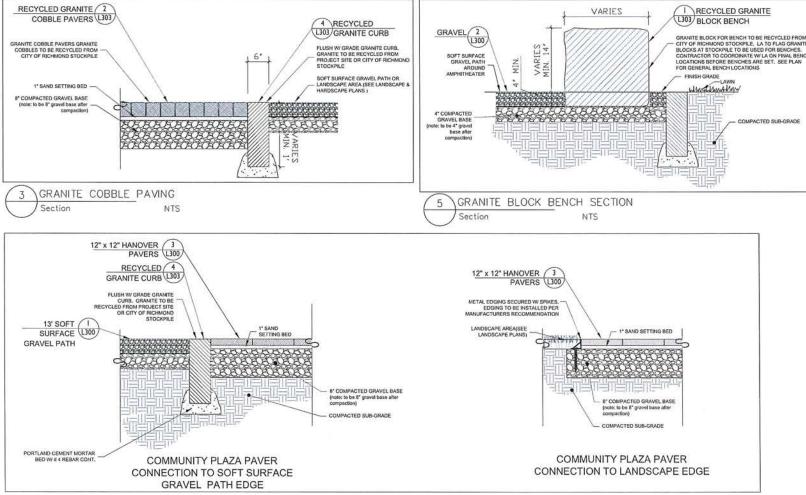
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Details



1 AMPHITHEATER TERRACED SEATING & STAGE PLAZA Section NTS





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DRAWN BY:
DESIGNED BY:
CHECKED BY:

Section

NTS

4 COMMUNITY PLAZA PAVING

Scale

Sheet #





3' Square Top Game Table w/ Four Attached Benches Specification:

Four-seat Homestead Series center-post table (standard in-ground mount) Model:

with four attached benches(CP-4). and Gameboard (IP-36)

*(or equivalent to be approved by LA)

Finish/Material Black Power Coating Frames & Ipe Wood Slats

Quantity: Two (2) = 36" Square Game Table (IP-36)

Eight (8) = 2' Bench (FB-324)

http://victorstanley.com Contact: (p) 1-866-579-5182

1.) Install per manufacturer's recommendation







VICTOR STANLEY, INC.

3' Square Top Game Table w/ Two Attached Benches Specification:

Two-seat Homestead Series center-post table (standard in-ground mount) with two attached benches(CP-2), and

Gameboard (IP-36)

Finish/Material Black Power Coating Frames & Ipe Wood Slats

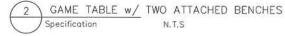
Two (2) = 36" Square Game Table (IP-36) Eight (8) = 2' Bench (FB-324)

*(or equivalent to be approved by LA)

(p) 1-866-579-5182

Quantity:

1.) Install per manufacturer's recommendation





Bench Specification:

Steelsite RB Series RB-28 (6' bench)

(or equivalent to be approved by LA)

See Plan Quantity:

Color: Black

Victor Stanley, Inc. Manufacturer: P.O. Drawer 330

Dunkirk MD 20754 USA

(p) 301-855-8300 or toll free 800-368-2573 Website: www.victorstanley.com

Notes:

1.) LA to approve in field bench locations before attaching w/ anchor bolts. Bench to be anchored to brick paver areas with anchor bolts. See bench anchor detail footings for gravel area. Coordinate w/ LA as needed.

2.) For mounting it is not recommended to locate anchor bolts until bench is in place. Use Anchor bolts to attached bench in place.

6' BENCH



Removable Bollard Specification:

Victorian 31" Tall CAST IRON bollard w/ lock tab for removable

application (Item ID: 9022-30RM)

Color/Finish: Black w/ powder coat finish

IRONSMITH Manufacturer:

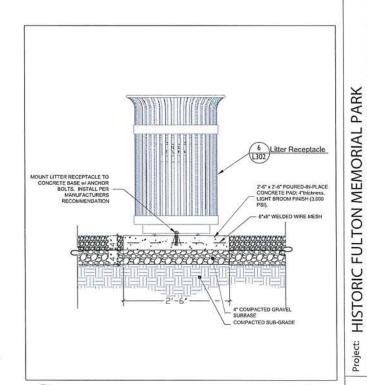
Paul Jackson (w/ site Innovations Group, Inc.)

704-301-7319

paul@siteinnovations.net

1) Removable bollard to be installed per manufacturers recommendation.

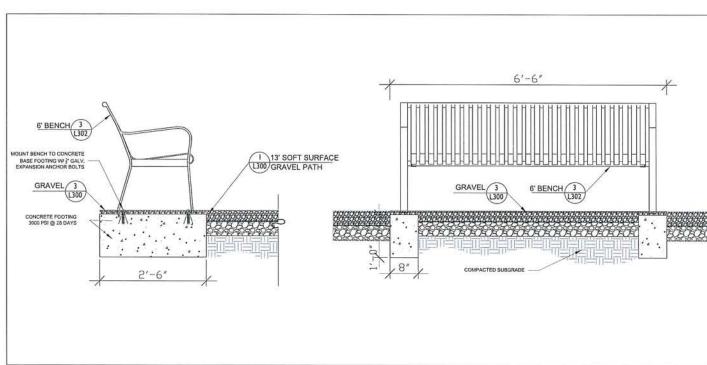




LITTER RECEPTACLE CONCRETE PAD

N.T.S

Section





N.T.S



14) tomar large on majorit

Litter Receptacle Specification:

Ironsites Series Litter Receptacle S-42 36 Gallon w/ standard tapered form lid

(or equivalent to be approved by LA)

Color/Finish: Black Powder Coated

Manufacturer: Victor Stanley, Inc.

P.O. Drawer 330 Dunkirk, MD 20754 USA (p) 301-855-8300 or toll free 800-368-2573

Website: www.victorstanlev.com

1.) LA to approve in field litter receptacle locations before attaching w/ anchor bolts. Litter receptacle located along soft surface gravel path to be anchored to concrete pad with anchor bolts. Litter receptacle located within paver area to be anchored to pavers.

2.) For mounting it is not recommended to locate anchor bolts until litter

LITTER RECEPTACLE Specification

N.T.S

STATUS: DESIGN DEVELOPMENT NOT FOR CONSTRUCTION

Scale

Sheet #

L302

cite design

DATE:

07.18.2013

DRAWN BY:

DESIGNED BY:

CHECKED BY:

Details



- Notes:

 1.) Contractor to utilize existing granite blocks located at the City of Richmond stockpile.

 2.) Landscape Architect to flag granite blocks to be used for benches before the start of construction. Contractor to
- coordinate w/ LA.
 Sizes and helghts of granite block benches to vary.
 Granite block benches located in community plaza to be place directly on pavers (see plans for general legislates).





1.) Contractor to utilize existing granite cobble pavers located on site or at the City of Richmond stockpile. Coordinate w/ LA as





- 1.) Contractor to utilize existing granite block pylons located at the City of Richmond stockpile.
 2.) Landscape Architect to flag granite blocks to be used for
- timeline pylons, community plaza pylons, and amphitheater stage backdrop before the start of construction. Contractor to coordinate w/ LA.





Contractor to utilize existing granite curb located on site or at the City of Richmond stockpile. Coordinate w/ LA as needed.





River Rock Specification:

Chalet Large River Stone *(or equivalent to be approved by LA)

Color:

Supplier: Luck Stone

(p) 1-800-255-5825 http://www.charlesluck.com/products/

1. Install per manufacturer's

RIVER ROCK



- Contractor to utilize existing granite block/slabs located at the City of Richmond stockpile for low granite sign wall, deconstructed
- wall, and amphitheater seating.

 2.) Contractor to coordinate w/ LA in the field on specific locations for granite block to be used for deconstructed granite wall (see plan for general locations).Coordinate w/ LA as needed.



Scale

Sheet #

L303

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DATE: 07.18.2013

DRAWN BY:

DESIGNED BY:

CHECKED BY:

Details

PARK

HISTORIC FULTON MEMORIAL

DATE: 07.18.2013 DRAWN BY: DESIGNED BY: CHECKED BY:

cite design

Details HISTORIC FULTON MEMORIAL PARK

STREETLIGHT SPECIFICATION:

Coordinate w/ Supplier Contact for Specific Item #'s

Color Black (Coordinate w/ LA if questions)

Niland Company

Helfrich Lighting 2569 Homeview Drive Richmond, VA 23294 Supplier:

Suzanne Green (p) 804-218-0616 Contact:

Notes:
1.) Final street light design subject to change based on final detail design.
2.) Install Per Manufacturers recommendations
3.) Contractor is responsible for providing electrical wiring, hookup, and conduit as needed.



STREETLIGHT SPECIFICATION:

Coordinate w/ Supplier Contact for Specific Item #'s

See Plan

Contact:

Black (Coordinate w/ LA if questions)

Niland Company

Helfrich Lighting 2569 Homeview Drive Richmond, VA 23294

Suzanne Green (p) 804-218-0616

Notes:

1.) Final street light design subject to change based on final detail design.

2.) Install Fer Manufacturers recommendations

3.) Contractor is responsible for providing electrical wiring, hookup, and conduit as needed.

N.T.S.



STREETLIGHT SPECIFICATION:

Model: Coordinate w/ Supplier Contact for Specific Item #'s

See Plan

Black (Coordinate w/ LA if questions)

Color

Helfrich Lighting 2569 Homeview Drive Richmond, VA 23294

Niland Company

Suzanne Green (p) 804-218-0616

Notes:

1.) Final street light design subject to change based on final detail design.

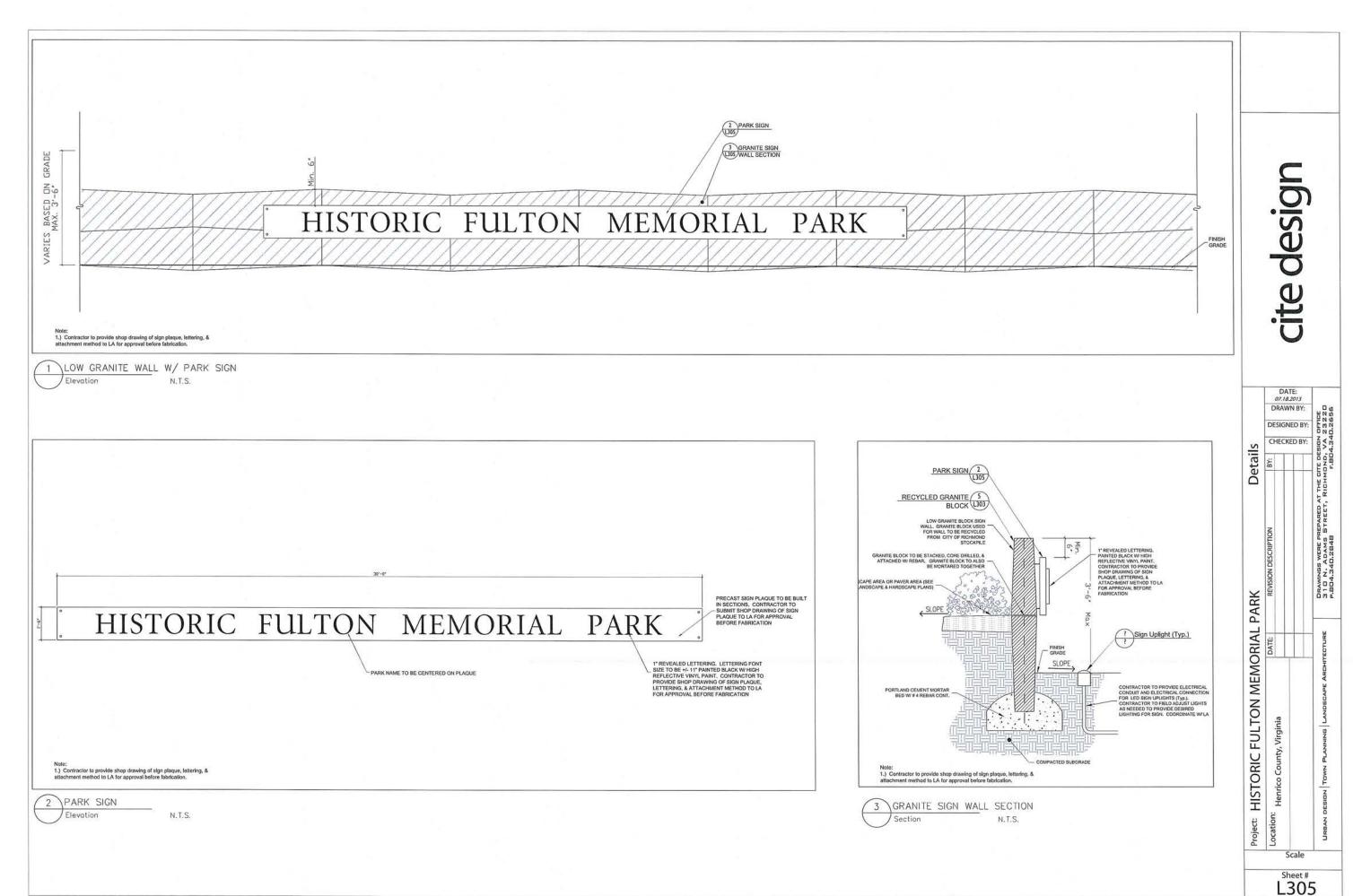
2.) Install Per Manufacturers recommendations

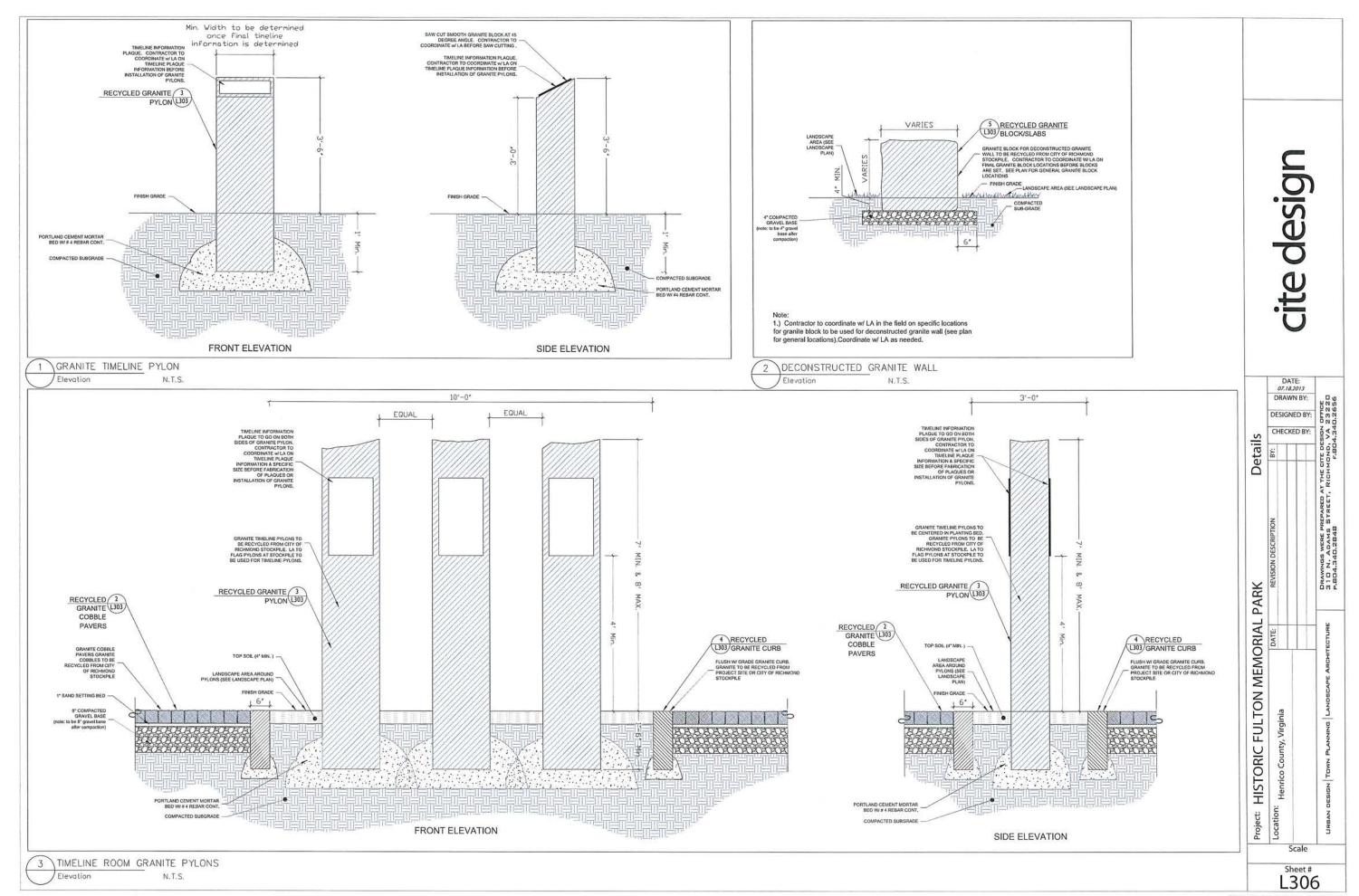
3.) Contractor is responsible for providing electrical wiring, hookup, and conduit as needed.

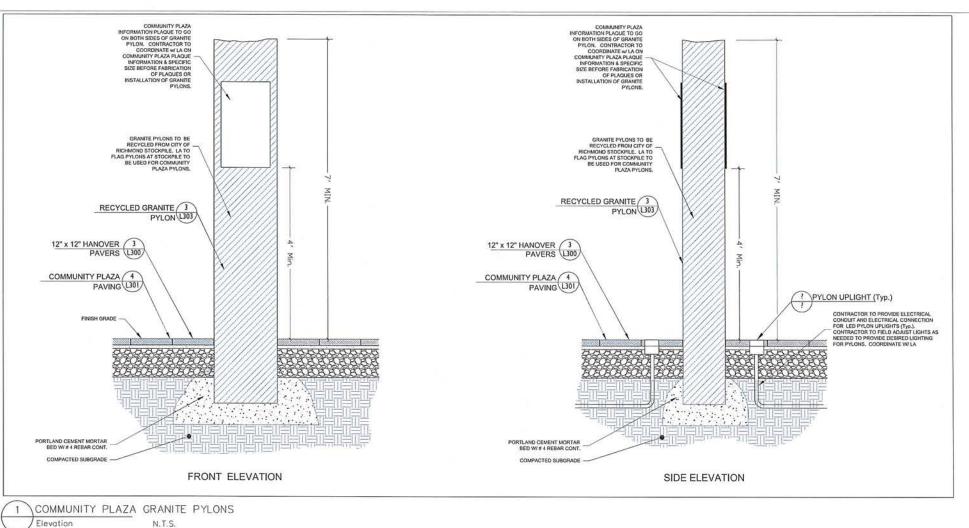


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Scale Sheet # L304







METAL EDGING SECURED WI SPIKES.
BEDOING TO BE INSTALLED PER
MANUFACTURERS RECOMMENDATION

12 x 12' HANOVER 3

PAVERS (100)

The Uplight (Typ.)

13 Tree Uplight (Typ.)

14 SAMD SETTING BED

15 SAMD SETTING BED

16 COMPACTED GRAVER BASE
pols to be 8' gravel base after
conspection)

17 SAMD SETTING BED

18 SAMD SETTING BED

19 SAMD SETTING BED

10 SAMD SETTING BED

11 SAMD SETTING GRAVE BASE
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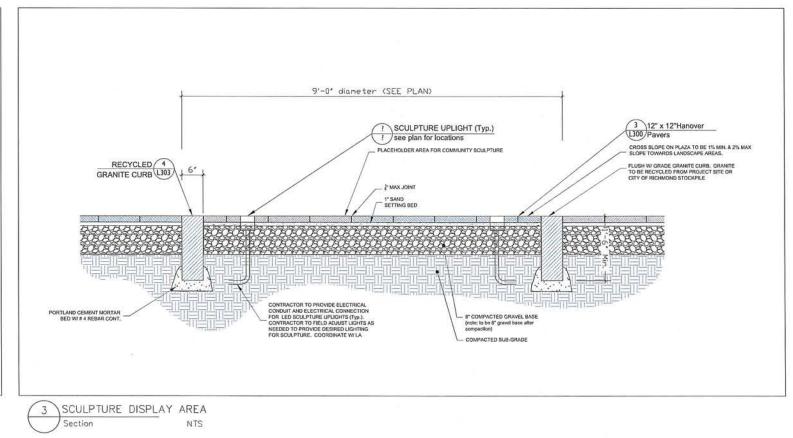
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11 SAMD SETTING GRAVE BASE
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2 5' x 5' TREE WELL

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Section

Sheet #

L307

