



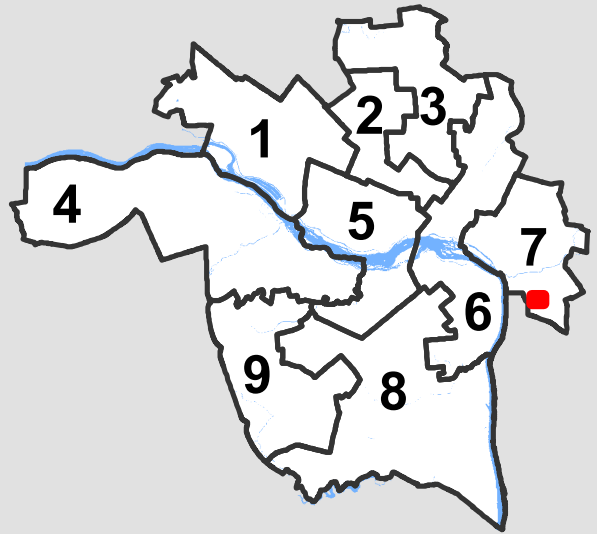
City of Richmond Department of Planning & Development Review

Location, Character, and Extent

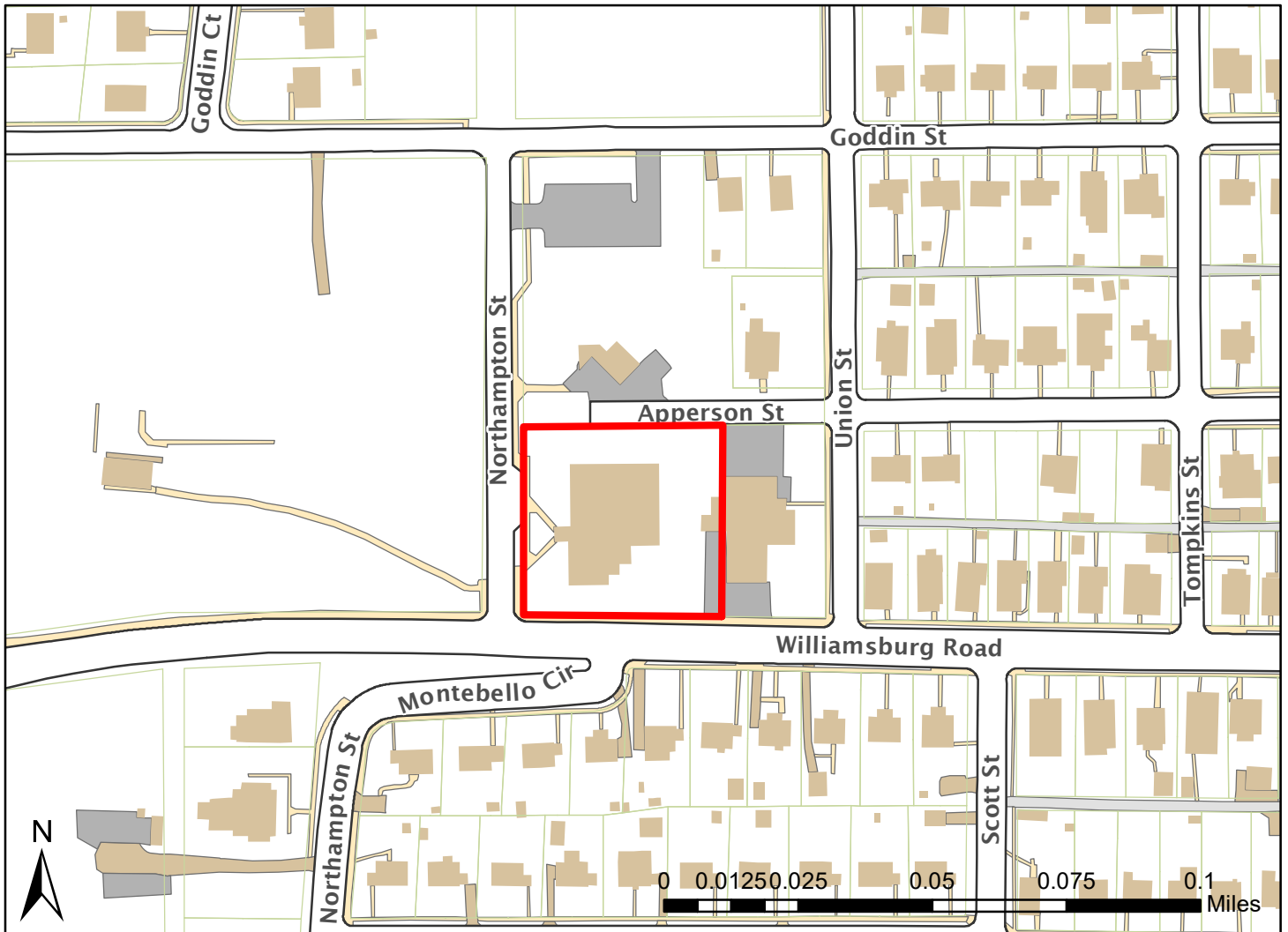
LOCATION: 5051 Northampton Street

COUNCIL DISTRICT: 7

PROPOSAL: Location, character, and extent review of updates to accessible routes to the entrance of the community center.



*For questions, please contact Josh Son
at 646-3741 or joshua.son@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 replacement for the required detailed narrative) : _____

The intent of the project is to reconfigure and update the existing street parking and sidewalks at Powhatan Community Center to provide accessible parking and an accessible route to the entrance of the community center as well as to Powhatan Hill Park.

Applicant Information

(on all applications other than encroachments, a City agency representative must be the applicant)

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.

Powhatan Community Center ADA Improvements – Project Narrative

Purpose and Description of the Project

The Department of Parks, Recreation, and Community Facilities (DPRCF) plans to reconfigure and update the existing street parking and sidewalks at Powhatan Community Center to provide accessible parking and an accessible route to the entrance of the community center as well as to Powhatan Hill Park. Existing conditions do not meet ADA Accessibility Guidelines. Access to Powhatan Hill Park is limited to a small staircase along Northampton Street. Access to the community center entrance is extremely steep and does not meet curb ramp, slope, or handrail requirements.

As currently designed, the layout provides sidewalk access along the west side of Northampton Street as well as accessible ramping to Powhatan Hill Park. Mill and overlay of existing street parking is proposed to meet accessibility requirements for slope. After restriping, the area will provide 2 parallel accessible parking spaces. In addition, the existing sidewalk to the community center entrance will be reconfigured to include a new curb ramp, sidewalk, and ramping to the front door.

Project Background

The Department of Parks, Recreation, and Community Facilities (DPRCF) engaged Timmons Group for technical services to design accessibility improvements at Powhatan Community Center. These services began with a design survey of the site and followed with a schematic design discussion with DPRCF staff. The final design included construction documents consisting of existing conditions and demolition, a layout plan, grading and drainage plan, erosion control plan, construction notes and details, and a stormwater summary.

The project is being submitted to UDC for review and approval by the Planning Commission.

Project Budget and Funding Sources

The project is being funded through the City of Richmond Neighborhood Park CIP.

Construction Program

This is a relatively small-scale and simple construction project and it is estimated that construction will take approximately 40 days to complete. The estimated construction start date is May 2019 and completion is expected mid-June 2019.

Landscape Plan and Maintenance Analysis

The landscaping consists of reseeding all disturbed areas. Landscape maintenance will belong to the City of Richmond Department of Parks, Recreation, & Community Facilities.

POWHATAN COMMUNITY CENTER ADA IMPROVEMENTS

URBAN DESIGN COMMITTEE
FEBRUARY 2019





Angled parking along Northampton Street.



Curb ramp at community center entrance.



Sidewalk to community center entrance



View to covered entry of community center.



Detail view of community center covered entry.



View south along sidewalk to Williamsburg Road.



Secondary sidewalk at community center entrance to remain.



Secondary sidewalk at community center entrance to remain.



Secondary sidewalk at community center entrance to remain.



Stairs to Powhatan Hill Park.



Stairs, wall, and fencing at non-accessibly entry to Powhatan Hill Park.



Hydrant along western side of Northampton Street at Powhatan Hill entry.

POWHATAN COMMUNITY CENTER ADA IMPROVEMENTS

EXISTING CONDITIONS – DECEMBER 2018

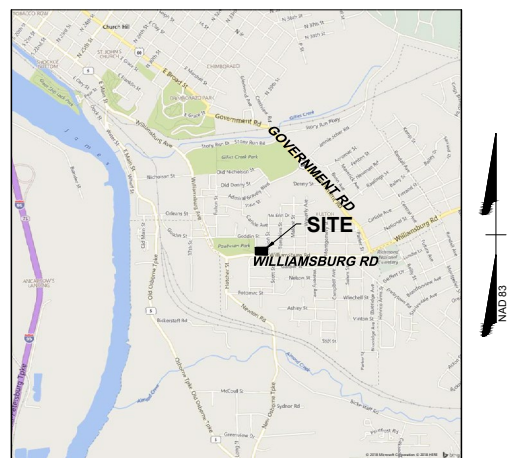


SITE DATA

1. **OWNER**
CITY OF RICHMOND DEPARTMENT OF PARKS, RECREATION & COMMUNITY FACILITIES
1209 ADMIRAL ST. RICHMOND, VA 23220
CONTACT: HEYWOOD HARRISON
PHONE: (804) 646-5608
EMAIL: HEYWOOD.HARRISON@RICHMONDGOV.COM
2. **LANDSCAPE ARCHITECT**
CONTACT: LAUREN PAUL
PHONE: (804) 200-6505
FAX: (804) 560-1016
EMAIL: LAUREN.PAUL@TIMMONS.COM
3. **SITE**
PARCEL ID: E0002031002
SITE AREA: 0.81 AC
ZONING: R-5
EXISTING USE: PARK
PROPOSED USE: PARK
HISTORIC DISTRICT: N/A
NEIGHBORHOOD: FULTON
WATER: CITY OF RICHMOND
SEWER: CITY OF RICHMOND
DRAINAGE: CITY OF RICHMOND
4. **BUILDING**
STORIES: 1 STORY
FLOOR AREA: 9,030 SF
5. **PARKING CALCULATIONS**
EXISTING PARKING = 5 SPACES (2 ACCESSIBLE/NON-COMPLIANT)
PROPOSED PARKING = 2 SPACES (2 ACCESSIBLE)
6. **CBPA AREA**
NONE
7. **STORM SEWER**
STORM SEWER SYSTEM IN SOUTHAMPTON STREET.
8. **FLOODPLAIN**
THE SUBJECT PROPERTY IS NOT LOCATED IN A FLOOD ZONE.
9. **WETLANDS AND PERENNIAL STREAM**
THE SUBJECT PROPERTY CONTAINS NO WETLANDS OR STREAMS.
10. **SURVEY NOTE**
EXISTING CONDITIONS INFORMATION IS A COMPILATION OF DATA OBTAINED FROM THE FOLLOWING: FIELD AND BOUNDARY SURVEY OF SUBJECT PROPERTY, CITY OF RICHMOND GAS, SEWER, AND WATER UTILITY MAPS, CITY OF RICHMOND GIS, AND FEMA FLOOD INSURANCE MAPS. DATA OUTSIDE THE LIMITS OF THE FIELD AND BOUNDARY SURVEY HAVE NOT BEEN FIELD VERIFIED BY TIMMONS GROUP.

POWHATAN COMMUNITY CENTER ADA IMPROVEMENTS

5051 NORTHAMPTON ST
RICHMOND, VA 23231
EAST DISTRICT



VICINITY MAP
SCALE: 1" = 2,000'

JANUARY 16, 2019

OWNER:

CITY OF RICHMOND DEPARTMENT OF PARKS, RECREATION
& COMMUNITY FACILITIES

ENGINEER:

TIMMONS GROUP

PERMITS REQUIRED:
WORK IN STREETS PERMIT

Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER SHEET
C1.0	EXISTING CONDITIONS & DEMOLITION PLAN
C2.0	LAYOUT PLAN
C3.0	GRADING & DRAINAGE & EROSION CONTROL PLAN
C4.0	NOTES & DETAILS
C4.1	NOTES & DETAILS
C4.2	NOTES & DETAILS
C5.0	STORMWATER SUMMARY

TIMMONS GROUP

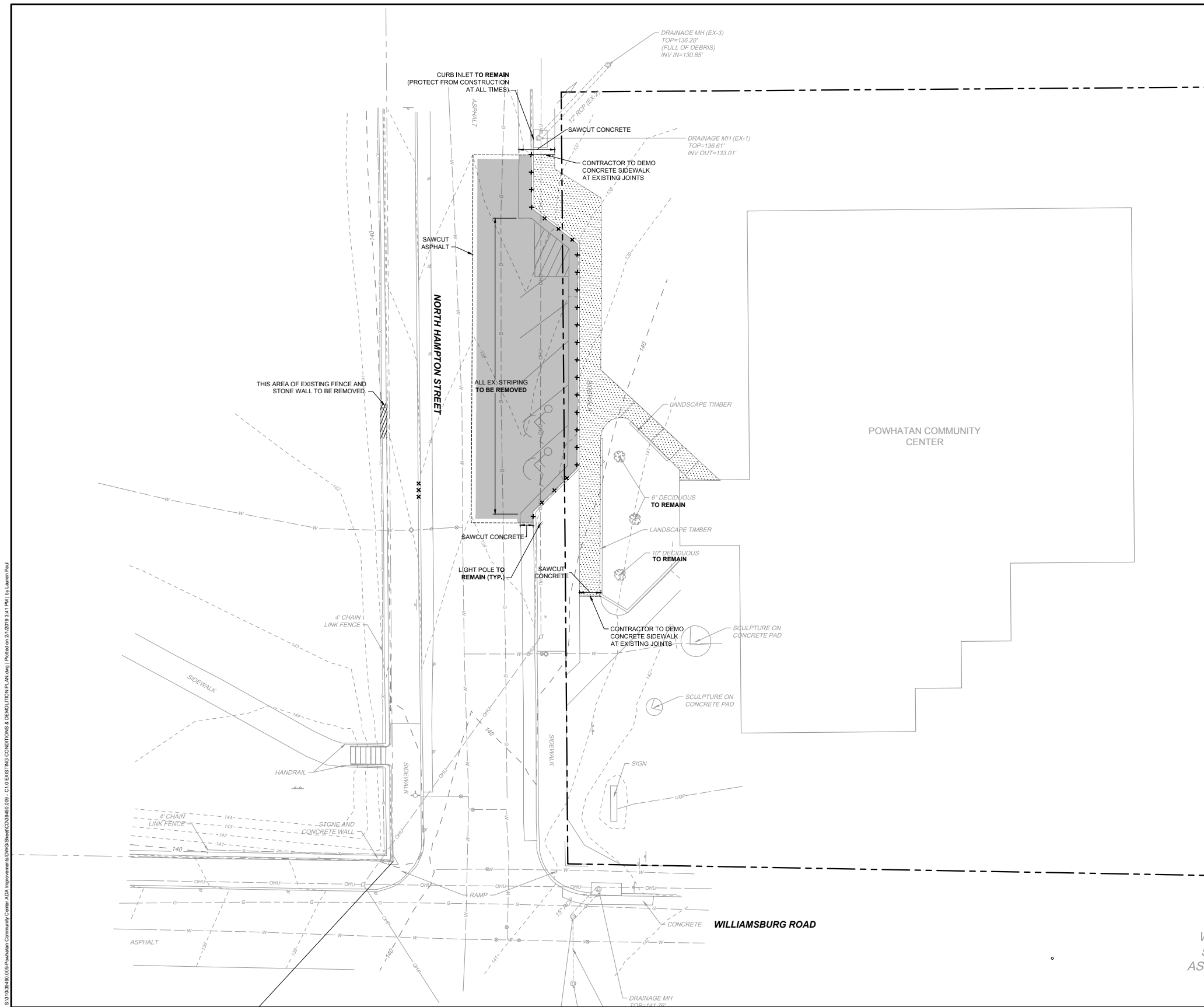
POWHATAN COMMUNITY CENTER ADA IMPROVEMENTS
CITY OF RICHMOND - VIRGINIA
COVER SHEET

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YOUR VISION ACHIEVED THROUGH OURS.	DATE
	01/16/2019
	DRAWN BY
	B. DAVIS
	DESIGNED BY
	L.P./B.D.
	CHECKED BY
	L. PAUL
	SCALE

JOB NO.	39490.009
SHEET NO.	C0.0

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SURVEY LEGEND:

LEGEND

- △ CONTROL
- ⊙ SANITARY MANHOLE
- ⊙ DRAINAGE MANHOLE
- ◇ WATER METER
- WATER VALVE
- ⊕ FIRE HYDRANT
- ⊖ POWER POLE
- < GUY
- SIGN

SURVEY NOTES:

THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF MARC C. SNIDER, LS FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE ORIGINAL DATA WAS OBTAINED ON NOVEMBER 27, 2018. THIS PLAT, MAP AND DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

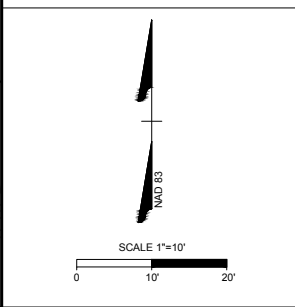
DATUM ESTABLISHED BY RTK GPS
(CORRECTIONS FROM RTCM-REF 0592)

DEMOLITION LEGEND:

- ASPHALT PAVEMENT REMOVAL
- ▨ CONCRETE PAVEMENT REMOVAL
- ✕ ✕ ✕ ✕ ✕ CURB & GUTTER REMOVAL

- DEMOLITION NOTES:**
- PERFORM ALL WORK IN ACCORDANCE WITH VDOT AND CITY OF RICHMOND SPECIFICATIONS AND REGULATIONS.
 - CONTRACTOR SHALL ENGAGE MISS UTILITY OR A PRIVATE UTILITY LOCATION SERVICE TO MARK ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY UPON FINDING A DIFFERENCE IN FIELD CONDITIONS AND WHAT IS DEPICTED ON THE PLANS.
 - ALL EXISTING UTILITIES SHALL BE PROTECTED AND MINIMUM COVER WILL BE MAINTAINED DURING DEMOLITION AND CONSTRUCTION.
 - SAW-CUT EXISTING PAVEMENT AT LIMITS OF PAVEMENT REMOVAL TO FULL DEPTH USING CARE TO CURB NEAT, STRAIGHT LINES, CUT AT EXISTING JOINTS WHERE POSSIBLE.
 - LEGALLY DISPOSE OF ANY EXCESS MATERIALS OFF-SITE AT NO ADDITIONAL COST TO THE OWNER.
 - TRAFFIC CONTROL SHALL BE PROVIDED BY CONTRACTOR PER CITY OF RICHMOND AND VDOT STANDARDS.

 UNDERGROUND UTILITIES MAY BE IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-552-7001 48 HOURS PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION PRIOR TO STARTING WORK.



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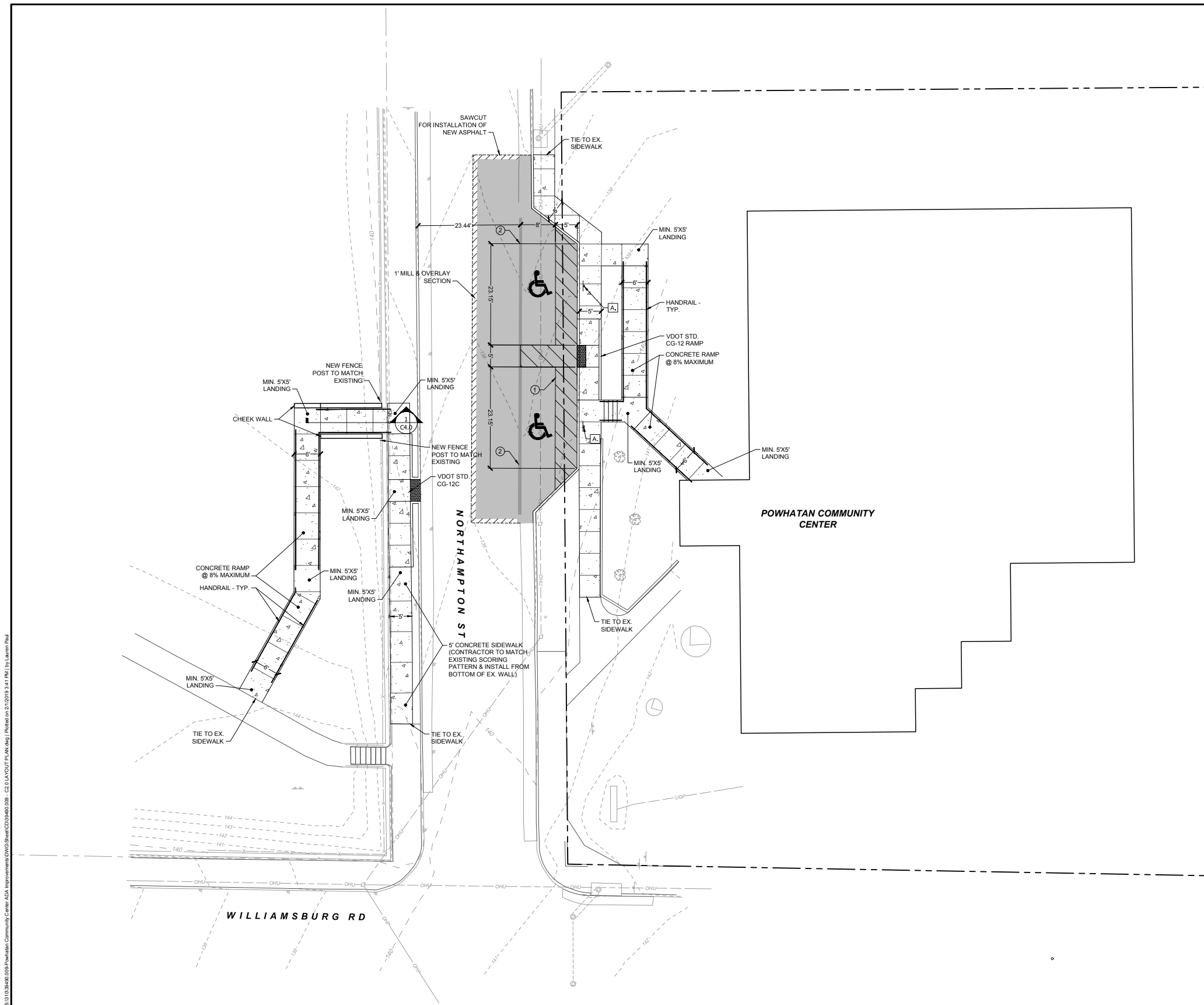
POWHATAN COMMUNITY CENTER ADA IMPROVEMENTS
CITY OF RICHMOND - VIRGINIA
EXISTING CONDITIONS & DEMOLITION PLAN

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<p>JOB NO. 39490.009</p> <p>SHEET NO. C1.0</p>	<p>These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and may not be used for any purpose whatsoever, including but not limited to construction. Bidding and/or construction bidding without the express written consent of TIMMONS GROUP.</p>																				

POWHATAN COMMUNITY CENTER ADA IMPROVEMENTS

CONSTRUCTION DOCUMENTS – EXISTING CONDITIONS & DEMOLITION PLAN





LAYOUT NOTES:

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS AND CITY OF RICHMOND SPECIFICATIONS AND STANDARDS WHERE APPLICABLE.
- VDOT STANDARD DETAILS, AS REFERENCED, TO BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT VERSION OF VDOT "ROAD AND BRIDGE STANDARDS".
- ALL DIMENSIONS ARE FROM THE FACE OF CURB, UNLESS NOTED OTHERWISE.
- ALL CURB RADIUS ARE 5' UNLESS OTHERWISE NOTED ON THE PLAN.
- ALL CURB AND GUTTER IS TO BE VDOT STANDARD CURB AND GUTTER.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL SIGNS, AND STRIPING SHOWN ON THE PLANS.

PAVEMENT LEGEND:

- DENOTES ASPHALT PAVEMENT REPLACEMENT. (DETAIL ON C4.0)
- DENOTES CONCRETE SIDEWALK REPLACEMENT. (DETAIL ON C4.0)
- DENOTES MILL & OVERLAY SECTION. (DETAIL ON C4.0)

SIGN LEGEND:

- ACCESSIBLE PARKING SIGN (MUTCD R7-8)

SITE LEGEND:

- SIGN
- PROPOSED CURB & GUTTER (CG-6)
- PROPOSED FLUSH CURB
- PROPOSED CURB (CG-2)
- EXISTING CURB
- EXISTING CURB & GUTTER
- DETECTABLE WARNING SURFACE
- YELLOW FIRE LANE STRIPING

PAVEMENT MARKING LEGEND:

- 4" SINGLE (SOLID) WHITE LINE
- 4" WIDE YELLOW STRIPE

NOTES:

- DO NOT PAINT INSIDE OF THE GUTTER PAN IN ANY AREA.
- PAINT SHALL BE TYPE A WATER EMULSION BASE, TRAFFIC PAINT CONFORMING TO THE REQUIREMENTS OF SECTION 704 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND FEDERAL SPECIFICATION TT-P-1952. COLOR SHALL BE WHITE UNLESS OTHERWISE INDICATED.
- ALL PERMANENT PAVEMENT MARKINGS DISTURBED BY CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR IN KIND, UNLESS OTHERWISE CALLED FOR IN THESE PLANS.
- CONTRACTOR SHALL TIE ALL PROPOSED PAVEMENT MARKINGS TO EXISTING MARKINGS AT THE PROJECT LIMITS.
- TRAFFIC CONTROL SHALL BE PROVIDED BY CONTRACTOR PER CITY OF RICHMOND AND VDOT STANDARDS.

SCALE 1"=10'

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DESIGNED BY: L.P./B.D.
CHECKED BY: L. PAUL
SCALE:

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POWHATAN COMMUNITY CENTER ADA IMPROVEMENTS
CITY OF RICHMOND - VIRGINIA
LAYOUT PLAN

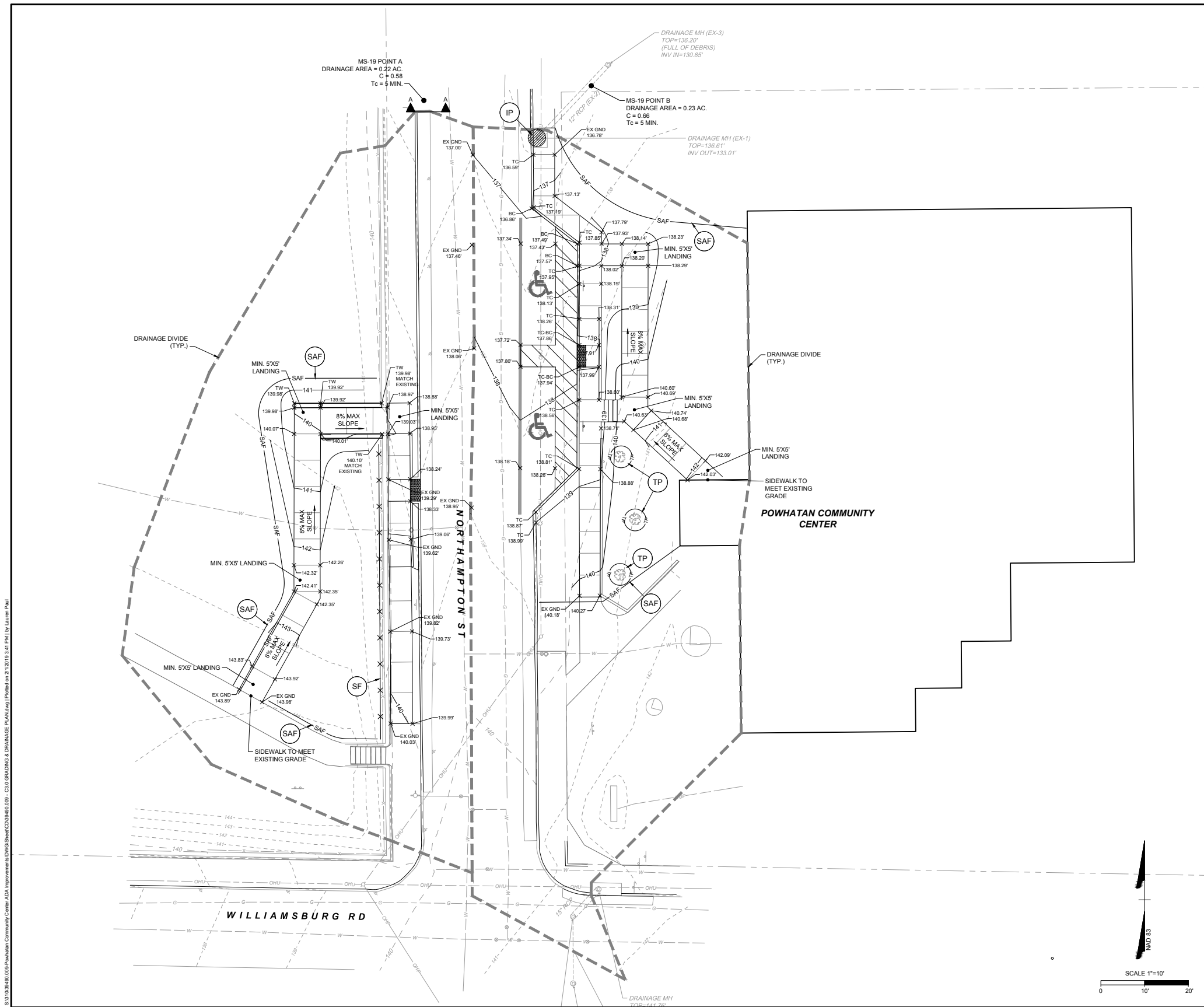
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POWHATAN COMMUNITY CENTER ADA IMPROVEMENTS

CONSTRUCTION DOCUMENTS – LAYOUT PLAN





UNDERGROUND UTILITIES MAY BE IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-552-7001 48 HOURS PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION PRIOR TO STARTING WORK.

GRADING NOTES:

1. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING FOUNDATION AT ALL TIMES.
2. ACCESSIBLE PARKING SPACES & RAMP LANDINGS MUST MEET ADA STANDARDS AND HAVE A MAXIMUM SLOPE OF 2.00% IN ANY DIRECTION.
3. ACCESSIBLE ROUTES AND SIDEWALKS MUST MEET ADA STANDARDS AND HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
4. SEED DISTURBED GROUND ACCORDING TO THE SPECIFICATIONS LISTED ON TABLE 3.32-D IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
5. BOTTOM OF CURB ELEVATIONS SPECIFIED WHERE CURB IS LESS THAN SIX (6) INCHES IN HEIGHT.
6. TRAFFIC CONTROL SHALL BE PROVIDED BY CONTRACTOR PER CITY OF RICHMOND AND VDOT STANDARDS.

GRADING LEGEND:

- EXISTING STORM SEWER
- 199 --- EXISTING CONTOUR
- 199 --- PROPOSED CONTOUR
- DRAINAGE DIVIDE
- TC 199.00 PROPOSED TOP OF CURB ELEVATION
- BC 199.00 PROPOSED BOTTOM OF CURB ELEVATION
- TC-BC 199.00 PROPOSED FLUSH CURB ELEVATION
- 199.00 PROPOSED GRADE ELEVATION
- EX GND 199.00 EXISTING GROUND ELEVATION

EROSION CONTROL LEGEND:

- SAF --- SAFETY FENCE 3.01'
- SF --- SILT FENCE 3.05'
- IP --- INLET PROTECTION 3.07'
- TP --- TREE PROTECTION 3.38'

EROSION CONTROL SEQUENCE OF CONSTRUCTION

1. A PRE-CONSTRUCTION CONFERENCE IS MANDATORY BEFORE ANY WORK IS DONE AT THE SITE. ARRANGE A MEETING WITH OWNER, ENGINEER AND ESC INSPECTOR. 48 HOURS NOTICE IS REQUIRED.
2. THE CERTIFIED RESPONSIBLE LAND DISTURBER (CRLD) MUST ATTEND THE PRE-CONSTRUCTION MEETING.
3. INSTALL PERIMETER CONTROL MEASURES INCLUDING SAFETY FENCE, SILT FENCING, TREE PROTECTION AND INLET PROTECTION.
4. AFTER PERIMETER EROSION CONTROL MEASURES ARE BUILT AND WITH APPROVAL OF EROSION CONTROL INSPECTOR, CLEAR AND GRUB OTHER PORTIONS OF THE SITE AND DEMOLISH AREAS INDICATED ON PLANS.
5. ADJUST MEASURES IF NECESSARY TO INTERCEPT SEDIMENT AND PREVENT EROSION. 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.
6. BEGIN GRADING OPERATION.
7. ONCE SITE IS BROUGHT TO GRADE AND STABILIZED, COMPLETE SITE WORK CONSTRUCTION INCLUDING CURB AND GUTTER, CONCRETE PAVEMENT AND ASPHALT PAVEMENT.
8. IN ANY DISTURBED AREAS, ESTABLISH FINAL GRADES WITH THE PLACEMENT OF TOPSOIL. PERMANENTLY SEED ALL DISTURBED AREAS.
9. DO NOT REMOVE EROSION CONTROL MEASURES UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. NOTIFY THE EROSION CONTROL INSPECTOR BEFORE THE EROSION CONTROL MEASURES ARE REMOVED. THE REMOVAL OF THESE MEASURES SHALL BE DONE WITHIN 30 DAYS AFTER FINAL STABILIZATION.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE DEPARTMENT OF PUBLIC WORKS.
11. IF CONSTRUCTION DOES NOT COMMENCE FOR 180 DAYS FOLLOWING THE PRE-CON MEETING OR IF THE PROJECT IS DORMANT FOR 180 DAYS, A NEW PRE-CON IS REQUIRED BEFORE CONSTRUCTION CAN START.
12. NO EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED WITHOUT THE APPROVAL OF THE ESC INSPECTOR FOR THE PROJECT.

TIMMONS GROUP

POWHATAN COMMUNITY CENTER ADA IMPROVEMENTS
CITY OF RICHMOND - VIRGINIA
GRADING & DRAINAGE & EROSION CONTROL PLAN

JOB NO.
39490.009
SHEET NO.
C3.0

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SCALE

POWHATAN COMMUNITY CENTER ADA IMPROVEMENTS
CONSTRUCTION DOCUMENTS – GRADING & DRAINAGE PLAN & EROSION CONTROL PLAN



2016 ROAD & BRIDGE STANDARDS

CG-12

GENERAL NOTES:

1. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
2. DETECTABLE WARNING SHALL BE FROM THE MATERIALS APPROVED LIST FOR DETECTABLE WARNING SURFACES. PRODUCTS NOT LISTED SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS FOR CG-12 DETECTABLE WARNING SURFACES.
3. SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINTS WITH REQUIRED BARS.
4. IF RAMP FLOOR IS PRECAST, HOLES MUST BE PROVIDED FOR DOWEL BARS SO THAT ADJOINING FLOOR SECTIONS CAN BE CAST IN PLACE AFTER PLACEMENT OF PRECAST RAMP FLOOR. PRECAST CONCRETE SHALL BE CLASS A-4.
5. REQUIRED BARS ARE TO BE NO. 3 X BY PLACED CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR, MID-DEPTH OF RAMP FLOOR. MINIMUM CONCRETE COVER 1/2".
6. CURB / CURB AND OUTER SLOPE TRANSITIONS ADJACENT TO CURB RAMPS ARE WELLED IN PARALLEL CURB / CURB AND OUTER SLOPE TRANSITIONS.
7. CURB RAMPS ARE TO BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THEY ARE TO BE PROVIDED AT INTERSECTIONS WHEREVER ACCESSIBLE WHEELCHAIR ROUTES CROSS THE RIGHT OF WAY OF A HIGHWAY, LOCALITY, OR NONRESIDENTIAL. THEY MUST BE LOCATED WITH PEDESTRIAN CROSSWALKS AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER AND SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES, EXISTING LIGHT POLES, FIRE HYDRANTS, SIGN POSTS, AND OTHER OBSTACLES. PERMISSIBLE CONSTRUCTION JOINTS ARE ACCESSIBLE ELEMENTS OF A FACILITY THAT CAN BE APPROACHED, ENTERED AND USED BY PEDESTRIANS.
8. RAMPS MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND PERMISSIBLE CONSTRUCTION JOINTS.
9. TYPICAL CONCRETE SIDEWALK IS 4" THICK. WHEN THE ENTRANCE RAMP CANNOT ACCOMMODATE THE TURNING REQUIREMENTS OF ANTICIPATED HEAVY TRUCK TRAFFIC, TRUCKS TO STAGNATE AT COMMERCIAL ENTRANCE RAMP.
10. WHEN CURB RAMPS ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.
11. WHEN ONLY ONE CURB RAMP IS PROVIDED FOR TWO CROSSINGS (DIAGONALLY AND THE CROSSWALK TRAVEL WAY). THIS 4' x 4' LANDING AREA SHALL BE PROVIDED TO MAKE OVER A WHEELCHAIR AND THE CROSSWALK TRAVEL WAY. THIS 4' x 4' LANDING AREA MAY INCLUDE THE OUTER FAN.
12. ALL CASES WHERE CURB RAMPS INTERSECT A RADIAL SECTION OF CURB AT ENTRANCES OR STREET CONNECTIONS, THE DETECTABLE WARNING SURFACE SHALL BE PROVIDED AT FACTORY FINISH OR FIELD FINISH AS RECOMMENDED BY THE MANUFACTURER TO MATCH THE BACK OF CURB.

NOTE: COMPONENTS OF CURB RAMPS CONSIST OF THE FOLLOWING: HYDRAULIC CEMENT SIDEWALK 4" DEPTH IN INCHES, AREA IN SQUARE YARDS CURB WHEN REQUIRED (CG-2, OR CG-3 IN LINEAR FEET). DETECTABLE WARNING SURFACES (USED IN SQUARE YARDS). ELEMENTS OF THE ABOVE ITEMS ARE TO BE SEPARATELY PAID ITEMS AND SHOULD BE SUMMARIZED FOR EACH CURB RAMP.

TYPE A PERPENDICULAR

TYPE B PARALLEL

TYPE C PARALLEL & PERPENDICULAR

DETECTABLE WARNING INSTALLED ON A RADIUS

TRUNCATED DOME DETAIL

DETECTABLE WARNING DETAIL

VDOT ROAD AND BRIDGE STANDARDS

CG-12 DETECTABLE WARNING SURFACE (GENERAL NOTES)

VIRGINIA DEPARTMENT OF TRANSPORTATION

REVISION DATE 07/16

SHEET 1 OF 5

105 302

2016 ROAD & BRIDGE STANDARDS

CG-12

TYPE B (PARALLEL) APPLICATION

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	MINIMUM RAMP LENGTH IN FEET
0	6	7
1	8	9
2	10	11
3	12	13
4	14	15
5	16	17
6	18	19
7	20	21
8	22	23
9	24	25
10	26	27
11	28	29
12	30	31
13	32	33
14	34	35
15	36	37

NOTES FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET TOP 5.

THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 10 FEET, REGARDLESS OF THE SLOPE.

VDOT ROAD AND BRIDGE STANDARDS

CG-12 DETECTABLE WARNING SURFACE TYPE B (PARALLEL) APPLICATION

VIRGINIA DEPARTMENT OF TRANSPORTATION

REVISION DATE 07/16

SHEET 2 OF 5

105 302

2016 ROAD & BRIDGE STANDARDS

CG-2

STANDARD 6" CURB

NOTES:

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. CURB HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) WILL BE PAID FOR AS RADIAL CURB.
4. THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3/4" DEPTH IN ORDER THAT THE BOTTOM COURSE OF THE PAVEMENT SUBSTRUCTURE CURB WILL COME WITH THE TOP OF A COURSE OF THE PAVEMENT SUBSTRUCTURE. ALLOWANCE IN DEPTH IS TO BE SHOWN AND INDICATED IN THE PLANS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH.
5. CG-2 IS TO BE USED ON ROADWAYS MEETING THE REQUIREMENTS FOR CG-2 AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL.
6. IN THE SECTION OF THE URBAN STANDARDS.

ACCEPTABLE ALTERNATIVE IF CURB IS EXTRUDED

VDOT ROAD AND BRIDGE STANDARDS

REVISION DATE 20/01

SHEET 1 OF 1

PAVEMENT REPLACEMENT JOINT DETAIL

EXISTING PAVEMENT

PROPOSED PAVEMENT

SAWCUT THROUGH EX. SURFACE COURSE

PROPOSED SURFACE COURSE

EXISTING SURFACE COURSE

ASPHALTIC TACK COAT

BASE COURSE

AGGR. BASE

NOTE: PROPOSED PAVEMENT MUST TIE IN WITH EXISTING PAVEMENT.

NO SCALE

PAVEMENT SECTIONS

*PAVEMENT SECTIONS TAKEN FROM ORIGINAL POD.

ASPHALT PAVEMENT

CONCRETE SIDEWALK

2" VDOT SM-9.5A SURFACE COURSE

8.0" AGGREGATE BASE COURSE VDOT TYPE I, SIZE 21B

MIN. 12" SUBGRADE COMPACTED TO 98% OF MAXIMUM DRY DENSITY (ASTM D-698) AND APPROVED BY GEOTECHNICAL ENGINEER

6X6 W2.8XW2.9 WOVEN WIRE FABRIC (FLAT SHEETS)

4.0" PORTLAND CEMENT CONCRETE

4.0" AGGREGATE BASE COURSE VDOT TYPE I, SIZE 21B

MIN. 12" SUBGRADE COMPACTED TO 98% OF MAXIMUM DRY DENSITY (ASTM D-698) AND APPROVED BY GEOTECHNICAL ENGINEER

CURB INSTALLATION IN EXISTING PAVEMENT

EXISTING SURFACE COURSE

PROPOSED VDOT CG-2 CURB

6" MIN. AGGREGATE BASE VDOT TYPE I, SIZE 21B

COMPACTED SUBGRADE

EXISTING EDGE OF PAVEMENT

APPLY TACK COAT TO EXISTING BASE COURSE

REMOVE AND REPLACE 1" OF EXISTING ASPHALT PAVEMENT. MATCH EXISTING SECTION.

NO SCALE

STANDARD HANDICAPPED PARKING SIGNAGE

RESERVED PARKING

R7-8

PENALTY SIGN AS REQUIRED BY LOCALITY

7'-0" ABOVE PARKING SURFACE

MIN. 5'-0" ABOVE PARKING SURFACE

NOTE: IDENTIFY SPACES BY ABOVE GRADE SIGNS AS RESERVED FOR PHYSICALLY DISABLED PERSONS. PROVIDE ONE (1) R7-8 SIGN AT EACH PARKING SPACE. INDICATED ON SITE PLAN. R7-8 SIGN SHALL BE ALUMINUM (PAINTED WHITE) WITH GREEN LETTERS, BORDER, AND INTERNATIONAL WHEELCHAIR SYMBOL.

NOTE: SIGNS SHALL BE MOUNTED ON 1-1/2" Ø STEEL POST PAINTED BLACK SET IN MIN. 2" OF CONCRETE.

NO SCALE

CONCRETE RAMP W/ HANDRAIL

3/4" = 1'-0"

1 1/2" DIA. STEEL TUBE HANDRAIL W/POWDERCOAT FINISH COLOR. MATCH EXISTING

CONCRETE CHEEK WALL BEYOND - SLOPED TO MEET EXISTING STONE WALL

CHAIN LINK FENCE POST BEYOND

BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL

4" CONCRETE SLAB - 4000 PSI @28 DAYS

MAX. 8% SLOPE

COMPACTED SUBGRADE - 95% S.F.D.

4" MIN. VDOT #57 COMPACTED STONE BASE

TIMMONS GROUP

POWHATAN COMMUNITY CENTER ADA IMPROVEMENTS

CITY OF RICHMOND - VIRGINIA

NOTES & DETAILS

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DATE 01/16/2019

DRAWN BY B. DAVIS

DESIGNED BY L.P./B.D.

CHECKED BY L. PAUL

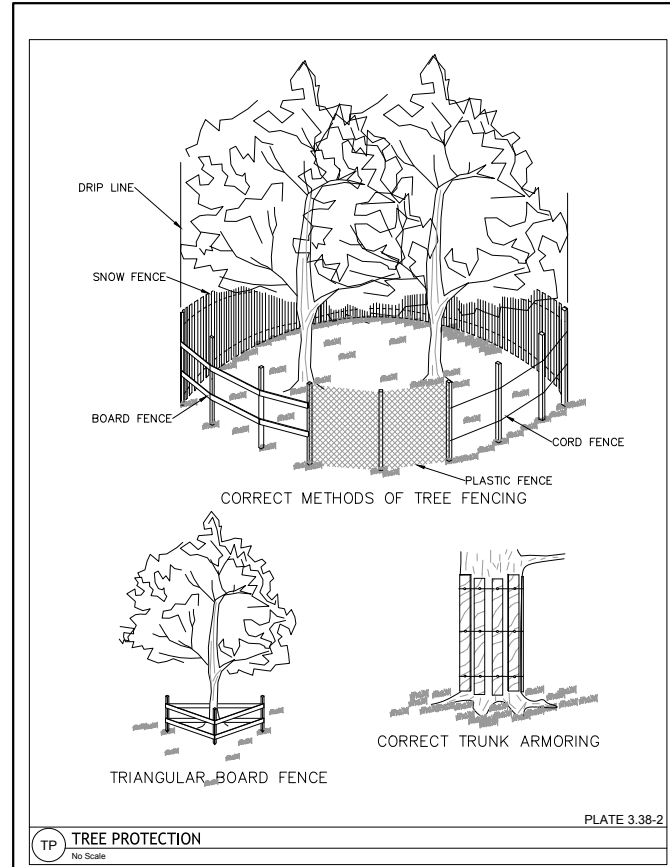
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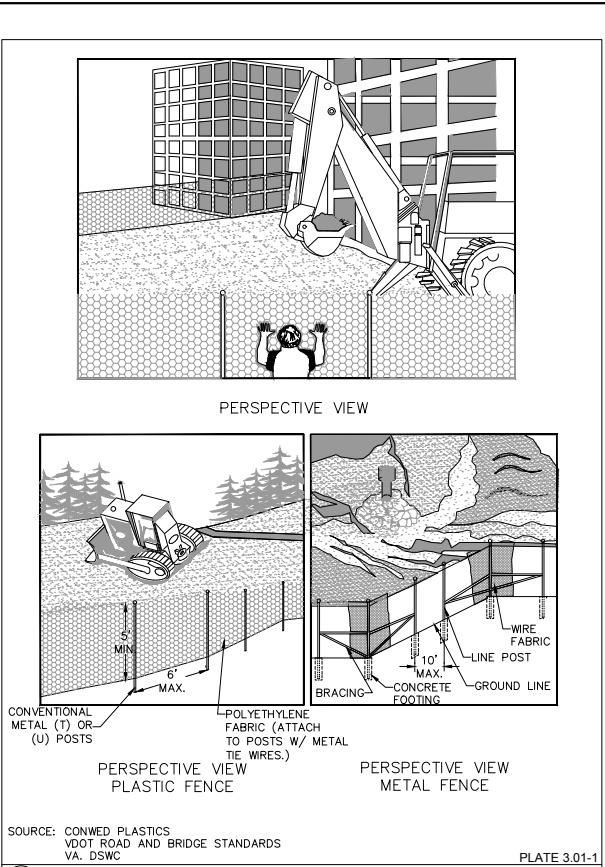
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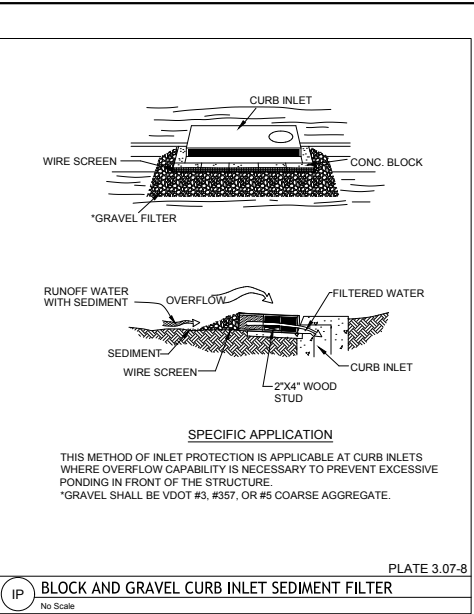




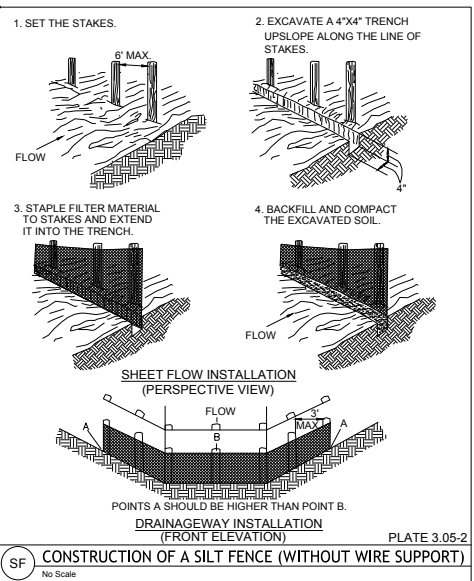
TP TREE PROTECTION
No Scale
PLATE 3.38-2



SAF SAFETY FENCE
No Scale
PLATE 3.01-1



IP BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER
No Scale
PLATE 3.07-8



SF CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)
No Scale
PLATE 3.05-2

TABLE 3.32-D
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA

LAND USE	SEED ¹	
	SPECIES	APPLICATION PER ACRE
Minimum Care Lawn (Commercial or Residential)	Tall Fescue ²	95 - 100%
	Perennial Ryegrass	0 - 5%
	Kentucky Bluegrass ²	0 - 5%
	TOTAL:	175 - 200 lbs
High - Maintenance Lawn	Tall Fescue ²	128 lbs
	Red Top Grass or Creeping Fescue	2 lbs
	Seasonal Nurse Crop ³	20 lbs
	TOTAL:	150 lbs
General Slope (3:1 or less)	Tall Fescue ²	108 lbs
	Red Top Grass or Creeping Fescue	2 lbs
	Seasonal Nurse Crop ³	20 lbs
	TOTAL:	150 lbs
Low - Maintenance Slope (Steeper than 3:1)	Tall Fescue ²	108 lbs
	Red Top Grass or Creeping Fescue	2 lbs
	Seasonal Nurse Crop ³	20 lbs
	TOTAL:	150 lbs

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at <http://www.vcra.org>

2 - Use seasonal nurse crop in accordance with seeding dates as stated below

February 18th - April	Annual Rye
May 1st - August 15th	Foral Millet
August 15th - October	Annual Rye
November - February 15th	Winter Rye

3 - Substitute Service Lespedeza for Crownvetch east of Granville, VA (May through September use hulled seed, all other periods, use unhulled Service). If Frazer is used, increase rate to 30 lbs/acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 - 40

FERTILIZER & LIME

- Apply 10-20-10 fertilizer at a rate of 500 lbs / acre (or 12 lbs / 1,000 sq ft)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs / 1,000 sq ft)

NOTE:

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.

-When applying Slowly Available Nitrogen, use rates available in *Erosion & Sediment Control Technical Bulletin #4, 2003 Nutrient Management for Development Sites* at <http://www.dcr.state.va.us/swe/e&e.htm#pubs>

Summary of Fertilizer Specification Revisions for Establishment of Turf

Standards & Specifications	2003 Urban Nutrient Management Technical Bulletin
3.31 Emory Seeding	10-10-10 fertilizer applied at a rate of 450 lbs. / acre or 10 lbs / 1,000 ft ²
3.32 Permanent Seeding	Mixed Grasses & Legumes 10-20-10 fertilizer applied at a rate of 500 lbs. / acre or 12 lbs / 1,000 ft ²
	Legume stands only Apply the equivalent of 100 lbs. of phosphate (P ₂ O ₅) and 100 lbs. of Potash (K ₂ O) per acre. NO NITROGEN (N)
3.33 Sodding	Grass stands only 10-20-10 fertilizer applied at a rate of 500 lbs. / acre or 12 lbs / 1,000 ft ²
	10-10-10 fertilizer applied at a rate of 450 lbs. / acre or 10 lbs / 1,000 ft ² . NOTE: For cool season grasses apply fertilizer in fall or spring. For warm season grasses apply the fertilizer in late spring or summer only.
3.34 Bermuda grass & aOYSIA GRASS Establishment	10-10-10 fertilizer applied at a rate of 500 lbs. / acre or 12 lbs / 1,000 ft ² . Apply additional phosphorus and potassium 30 - 60 days later based on the soil test. Apply an additional equivalent of 1 lb./1,000 ft ² of nitrogen when the P & K are applied.

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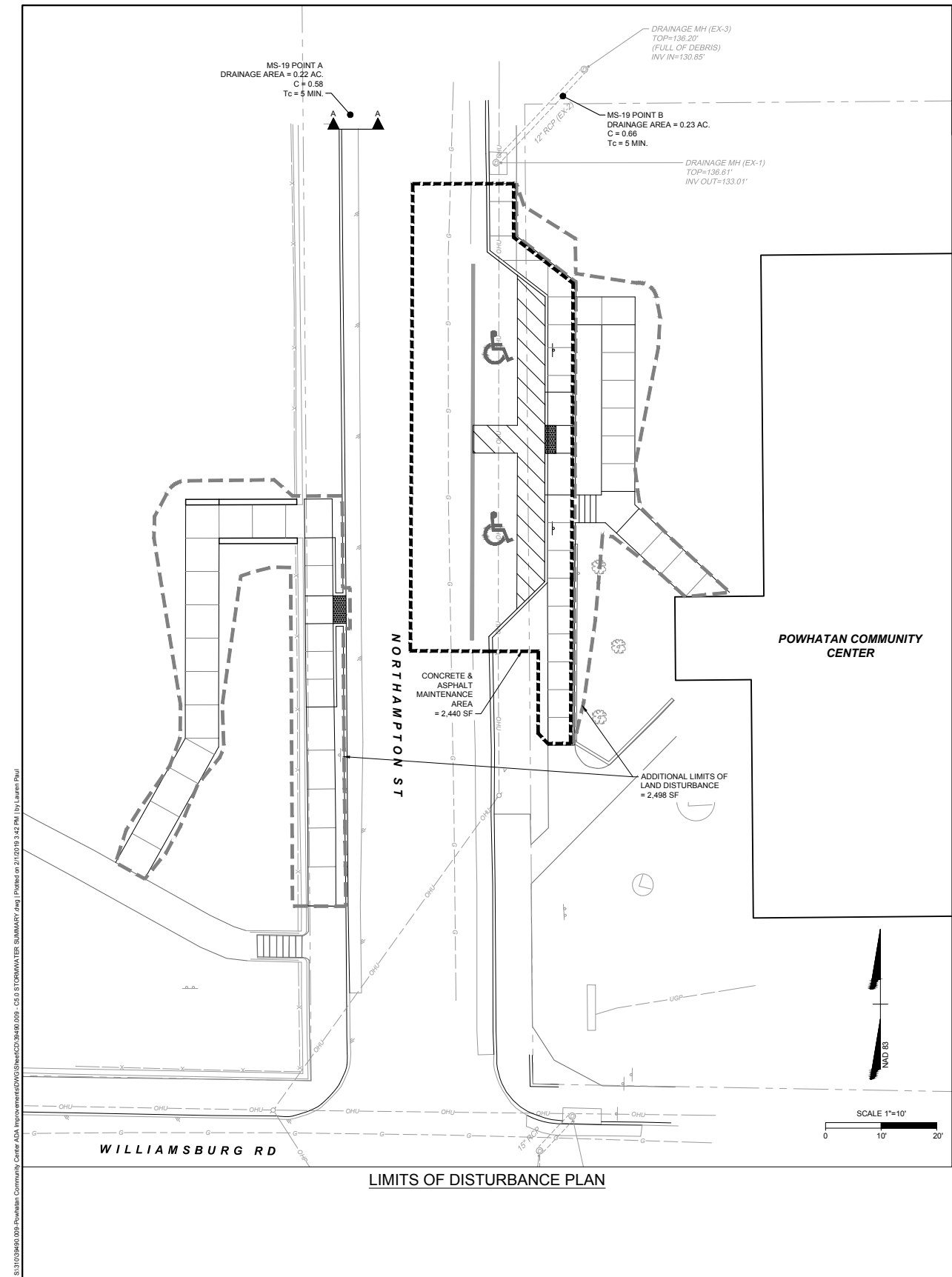
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CHECKED BY: L. PAUL
SCALE:

JOB NO.: 39490.009
SHEET NO.: C4.2

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LEGEND:

CONCRETE/ASPHALT MAINTENANCE AREA (2,440 SF)

ADDITIONAL LIMITS OF DISTURBANCE (2,498 SF)

STORMWATER MANAGEMENT SUMMARY
THIS SITE MEETS THE CRITERIA SET FORTH IN THE VIRGINIA STORMWATER MANAGEMENT REGULATIONS BY HAVING LAND DISTURBING ACTIVITIES OF LESS THAN 2,500 SQUARE FEET. STORMWATER QUALITY AND QUANTITY REQUIREMENTS ARE MET. SUPPORTING CALCULATIONS ARE FOUND ON THIS SHEET.

MS-19 POINT A CALCULATIONS

Cross Section for A-A

Project Description: Friction Method, Manning Formula, Solve For: Normal Depth

Input Data: Channel Slope: 0.01980 ft/ft, Normal Depth: 0.16 ft, Discharge: 0.90 ft³/s

Cross Section Image:

Worksheet for A-A

Project Description: Friction Method, Manning Formula, Solve For: Normal Depth

Input Data: Channel Slope: 0.01980 ft/ft, Discharge: 0.90 ft³/s

Station (ft)	Elevation (ft)
0+00	136.77
0+05	136.18
0+10	136.31
0+15	136.77

Roughness Segment Definitions: Start Station: (0+00, 136.77), Ending Station: (0+15, 136.77), Roughness Coefficient: 0.013

Options: Current roughness weighted Method: Pavlovski's Method, Open Channel Weighting Method: Pavlovski's Method, Closed Channel Weighting Method: Pavlovski's Method

Results: Normal Depth: 0.16 ft, Elevation Range: 136.18 to 136.77 ft, Flow Area: 0.30 ft², Wetted Perimeter: 3.83 ft, Hydraulic Radius: 0.08 ft, Top Width: 3.75 ft, Normal Depth: 0.16 ft, Critical Depth: 0.20 ft, Critical Slope: 0.08039 ft/ft

MS-19 POINT B CALCULATIONS

EXISTING STORM STORM SEWER DESIGN COMPUTATIONS

PROJECT: POWHATAN COMMUNITY CENTER
LOCATION: CITY RICHMOND
STORM FREQUENCY 10 YEAR

PIPE NO	FROM POINT REFERENCE	TO POINT REFERENCE	DRAIN AREA "A"	RUNOFF COEFF "C"	CA	INCRE-MENT	ACCUM-ULATED	ADDTL CA	TOTAL CA	INLET TIME (7)	RAIN FALL In/Hr (8)	RUNOFF Q CFS (9)	INVERT ELEVATIONS UPPER END (10)	LOWER END (11)	LENGTH of Pipe Ft. (12)	SLOPE Ft./Ft. (13)	SIZE (Dia. Or Span/Rise) In. (14)	SHAPE (Capacity) CFS (15)	Friction Slope Ft./Ft. (16)	VEL Vn Ft./Sec (17)	FLOW TIME (18)	REMARKS
EX-2	EX-1	EX-3	0.230	0.660	0.152	0.152	0.000	5.000	7.643	1.069	133.010	130.850	23.101	0.094	12.000	Circular	10.891	0.001	8.839	0.044		

EXISTING STORM HYDRAULIC GRADE LINE ANALYSIS

PROJECT: POWHATAN COMMUNITY CENTER
INCIDENCE PROBABILITY 10 Year

INLET OR JUNCTION	OUTLET WATER SURFACE ELEV. (ft)	PIPE DIA Do (in)	DESIGN DISCH Co (CFS)	LENGTH Lp (ft)	FRICTION SLOPE (FT/FT)	FRICTION LOSS Hf (ft)	JUNCTION LOSS										FINAL H (ft)	Inlet Water Surface Elevation (ft)	Rim Elev. (ft)	Comments			
							Vo	Ho	Qi	Vi	QVI	V²/2g	H	Angle	Hs	Ht					Hr	0.5 Hr	
EX-1	131.65	12	1.07	23.1	0.09%	0.02	8.84	0.3	0	0	0	0	0	0	0	0.3	0.39	FALSE	0.42	132.07	136.61	OK	-4.55

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POWHATAN COMMUNITY CENTER ADA IMPROVEMENTS

SITE PLAN RENDERING

