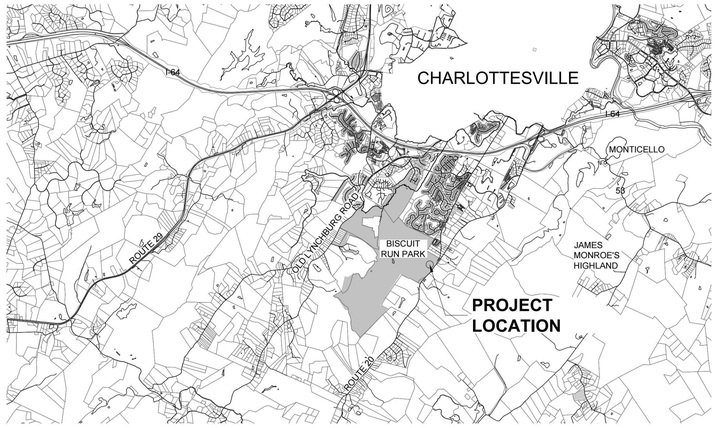
BISCUIT RUN PARK PHASE 1 INITIAL SITE PLAN

SDP202100002

ALBEMARLE COUNTY, VIRGINIA

DEPARTMENT OF FACILITIES AND PLANNING



SHEET LIST TABLE			
Sheet Number	Sheet Title	1/29/2021	2/25/2021
G-001	Cover Sheet	X	X
G-002	General Project and Landscape Site Notes		
G-003	General Civil Site Notes	X	X
G-004	Site Context & Key Plan	X	X
S-120	Site Boundary Survey - Partial North		
S-121	Site Boundary Survey - Partial South		
C-100	Existing Conditions & Site Demo Plan North	X	X
C-101	Existing Conditions & Site Demo Plan South	X	X
C-110	E&S Plan- Partial North	X	X
C-111	E&S Plan-Partial South & Notes	X	X
C-112	E&S Details		X
L-100	Landscape Site Plan- Partial North	X	X
L-101	Landscape Site Plan- Partial South	X	X
L-200	Landscape Site Details - Paving	X	X
L-201	Landscape Site Details	X	X
L-202	Landscape Site Details - Cont'd	X	X
L-203	Landscape Site Details - Kiosk		X
L-210	Vault Toilet Details		X
C-200	Civil Layout & Utilites Plan - Partial North	X	X
C-201	Civil Layout & Utilities Plan - Partial South & Notes	X	X
C-210	Grading and Drainage Plan - Partial North	X	X
C-211	Grading and Drainage Plan - Partial South	X	X
C-300	Civil Site Details		
C-301	Civil Site Details		
C-302	Civil Site Details		
C-400	Storm Water Pipe Profiles		
C-401	Storm Water Pipe Profiles		
C-500	Road Plan and Profile	X	X
C-501	Road Plan and Profile	X	X
C-502	Road Plan and Profiles	X	X
C-503	Roadway Details		X
C-600	Storm Water Management Plans	X	X
C-601	Storm Water Management Plans		
C-610	Storm Water Management Details	X	X
C-611	Storm Water Management Plans		
C-700	Maintenance of Traffic Plan	X	X
C-701	Maintenance of Traffic	X	X
C-710	Maintenance of Traffic Details	X	X
C-711	Maintenance of Traffic Details & Notes		
L-300	Landscape Planting Plan- Partial North	X	X
L-301	Landscape Planting Plan-Partial South	X	X
L-302	Landscape Planting Details	X	X

LIST OF LANDSCAPE ARCHITECTURAL ABBREVIATIONS

APPROX	APPROXIMATE
ARCH	ARCHITECT/ ARCHITECTURAL
ASSOC	ASSOCIATED
B&B	BALLED AND BURLAPPED
BOC	BOTTOM OF CURB
BOS	BOTTOM OF STAIR
BW/BOW	BOTTOM OF WALL
CAL	CALIPER
CL	CENTERLINE
COL	CLEAN OUT
CONC	CONCRETE
CONT	CONTINUOUS
DET	DETAIL
DEMO	DEMOLISH/DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
EJ	EXPANSION JOINT
EL/ELEV	ELEVATION
ENGR	ENGINEER
EOP	EDGE OF PAVE
EQ	EQUAL
EX	EXISTING
EXIST	EXISTING
FC/FOC	FACE OF CURB
FF/FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE (PAVED AREA)
FH	FIREHYDRANT
FOB	FACE OF BUILDING
FOW	FACE OF WALL
FT	FOOT/FEET
FYS	FRONT YARD SETBACK
GALV	GALVANIZED
HC	HANDICAP
HT	HEIGHT
IN	INSIDE DIAMETER
INV	INVERT
LA	LANDSCAPE ARCHITECT
LF	LINEAR FEET
LOD	LIMIT OF DISTURBANCE
LOW	LIMIT OF WORK
LP	LOW POINT
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NOM	NOMINAL/NOMINAL DIMENSION
NTS	NOT TO SCALE
OC	ON CENTER
PA	PLANTING AREA
PH	PHASE
POB	POINT OF BEGINNING
POC	POINT OF CURVE
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE
R	RADIUS
REINF	REINFORCED
ROW	RIGHT-OF-WAY
SAN	SANITARY /SANITARY SEWER
SD	STORM DRAIN
SF	SQUARE FEET
SH/SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATIONS/SPECIFIED
SQ	SQUARE
SS	STAINLESS STEEL
ST	STORM
STRUC	STRUCTURE/STRUCTURAL
TOC	TOP OF CURB
TEMP	TEMPORARY
TOS	TOP OF STAIR
TO. SLAB	TOP OF SLAB
TW/TOW	TOP OF WALL
TYP	TYPICAL
UTIL	UTILITY
VAR	VARIES/VARIABLE
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WWF	WELDED WIRE FABRIC
WWM	WOVEN WIRE MESH

MISCELLANEOUS:

@	AT
'	FEET
"	INCHES
#	NUMBER

SYMBOLS

00.00' PROPOSED SPOT ELEVATION

00.00 EXISTING SPOT ELEVATION

0.0% PROPOSED SLOPE

1 / L-11 PROPOSED SLOPE / SHEET NUMBER

1 / L-11 DIRECTION SECTION FACES / DETAIL NUMBER / SECTION LINE / SHEET NUMBER

L-11 SHEET NUMBER

PROPOSED CONTOUR

EXISTING CONTOUR

GENERAL INFORMATION

1. PROPERTY OWNER
   COMMONWEALTH OF VIRGINIA
   DEPT. OF CONSERVATION AND RECREATION
   600 EAST MAIN STREET
   RICHMOND VA 23219
2. PROPERTY LESSEE & DEVELOPER
   COUNTY OF ALBEMARLE
   DEPT OF FACILITIES AND PLANNING
   401 MCINTIRE ROAD
   CHARLOTTESVILLE, VA 22902
3. SITE DESIGN AND LANDSCAPE ARCHITECTURE
   ANHOLD ASSOCIATES, PLC
   8311 ROCKFISH GAP TURNPIKE
   GREENWOOD, VA 22943
   434-882-3420, ANHOLDLA.COM
4. SITE ENGINEERING
   WOOLLEY ENGINEERING
   210 5TH STREET NE
   CHARLOTTESVILLE, VA 22902
   434-973-0045, WOOLLEY-ENG.COM
5. PROJECT SURVEYOR
   MARSH & LEGGE LAND SURVEYORS
   560 NORTH LOUDOUN STREET
   WINCHESTER, VA 22601
   540-667-0468
   BOUNDARY, SITE AND TOPOGRAPHIC SURVEY PROVIDED 2/18/2020
6. TAX MAP & PARCEL NO.: 09000-00-00-006D0
7. PROPERTY AREA
   PHASE 1A BISCUIT RUN PARK DEVELOPMENT AREA 5.00± ACRES
   OVERALL TAX MAP PARCEL AREA: 891.00 ± ACRES
8. ZONING: ZMA2019000013
   RA RURAL AREAS WITH THE FOLLOWING ZONING OVERLAYS: EC ENTRANCE CORRIDOR, MANAGED AND PRESERVED STEEP SLOPES, & MONTICELLO VIEWSHED.
9. PROPERTY LINE SETBACKS: FRONT=75', SIDE=25', BACK=35'
10. CRITICAL SLOPES:
    SLOPES GREATER THAN 25% ARE PRESENT ON THE PROPERTY. SOME CRITICAL SLOPES (MANAGED AND PRESERVED) WILL BE DISTURBED BY RIGHT DURING PHASE 1A.
11. EXISTING USE: UNDEVELOPED RURAL AREA. CURRENTLY USED AS PARK OPEN SPACE FOR PEDESTRIAN AND BIKING ACTIVITIES.
12. PROPOSED PHASE 1A USE:
    PHASE 1A IMPROVEMENTS INCLUDE PARK ENTRANCE AND ACCESS ROAD, 75-SPACE PARKING AREA WITH VAULT TOILET AND PEDESTRIAN IMPROVEMENTS, STORM WATER MANAGEMENT FACILITIES, AND MULTIUSE WALING AND BIKING TRAILS. PHASE 1A IMPROVEMENTS WILL OCCUR WITHIN THE LIMITS OF PROJECT IDENTIFIED IN THIS DOCUMENT.
13. PARKING REQUIRED: 75-SPACES ARE REQUIRED AS IDENTIFIED BY COUNTY DEPT. OF PARKS AND FACILITIES DESIGN.
14. FUTURE PARK USE:
    FUTURE PHASES OF THE PARK COULD INCLUDE THE DEVELOPMENT OF, ADDITIONAL PARKING AREAS, BALL FIELDS, TRAILS, INTERPRETIVE SIGNAGE AND OTHER RECREATIONAL RESOURCES. SEE APPROVED PARK MASTER PLAN
15. MAGISTERIAL DISTRICT: SCOTTSVILLE
16. WATERSHEDS: THIS SITE LIES WITHIN THE RIVANNA RIVER WATERSHED. PORTIONS OF THE PROPERTY ARE WITHIN THE RAGGED MOUNTAIN DAM BREAK INUNDATION ZONE
17. NO ELECTRICAL SERVICE, POTABLE WATER OR SANITARY SEWER UTILITIES WILL BE PROVIDED OR CONSTRUCTED AS PART OF THIS PROJECT. A VAULT TOILET WILL BE CONSTRUCTED. TOILET MAINTENANCE WILL BE PROVIDED BY THE COUNTY PARKS DEPT.
18. THE PARK ENTRANCE AND PARK ACCESS ROAD R.O.W. WILL BE PLATTED, SUBDIVIDED, AND DEEDED TO VDOT AS PART OF THIS PROJECT. SEE CIVIL PLANS FOR PROPOSED R.O.W. LINES.

GENERAL CONSTRUCTION NOTES

1. PRIOR TO ANY CONSTRUCTION WITHIN ANY EXISTING PUBLIC RIGHT-OF-WAY, INCLUDING CONNECTION TO ANY EXISTING ROAD, A PERMIT SHALL BE OBTAINED FROM THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT). THIS PLAN AS DRAWN MAY NOT ACCURATELY REFLECT THE REQUIREMENTS OF THE PERMIT. WHERE ANY DISCREPANCIES OCCUR THE REQUIREMENTS OF THE PERMIT SHALL GOVERN.
2. ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO CURRENT SPECIFICATIONS AND STANDARDS OF VDOT UNLESS OTHERWISE NOTED.
3. EROSION AND SILTATION CONTROL MEASURES SHALL BE PROVIDED IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN AND SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING OR OTHER CONSTRUCTION.
4. ALL NON-PAVED SLOPES AND DISTURBED AREAS ARE TO BE FERTILIZED, PERMANENTLY SEEDED AND MULCHED.
5. THE MAXIMUM ALLOWABLE SLOPE IS 2:1 (HORIZONTAL:VERTICAL), WHERE REASONABLY OBTAINABLE, LESSER SLOPES OF 3:1 OR BETTER ARE TO BE ACHIEVED.
6. PAVED, RIP-RAP OR STABILIZATION MAT LINED DITCH MAY BE REQUIRED WHEN IN THE OPINION OF THE COUNTY ENGINEER, OR DESIGNEE, IT IS DEEMED NECESSARY IN ORDER TO STABILIZE A DRAINAGE CHANNEL.
7. ALL TRAFFIC CONTROL SIGNS SHALL CONFORM WITH THE VIRGINIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.
8. UNLESS OTHERWISE NOTED ALL CONCRETE PIPE SHALL BE REINFORCED CONCRETE PIPE – CLASS III.
9. ALL EXCAVATION FOR UNDERGROUND PIPE INSTALLATION MUST COMPLY WITH OSHA STANDARDS FOR THE CONSTRUCTION INDUSTRY

GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING AND PROPOSED SITE CONDITIONS AND TO BECOME FAMILIAR WITH THE PROJECT AREA AND THE PLANS BEFORE BEGINNING ANY WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE COUNTY OF ANY DISCREPANCIES BETWEEN THE PLANS AND THE ACTUAL SITE CONDITIONS.
2. COORDINATE AND PERFORM ALL WORK IN A MANNER THAT ALLOWS FOR SAFE AND CONVENIENT VEHICULAR AND PEDESTRIAN USE OF THE PREMISES DURING CONSTRUCTION. THE SITE SHALL REMAIN AVAILABLE TO THE OWNER AT ALL TIMES.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING THE HEALTH, SAFETY AND WELFARE OF THE PUBLIC AT ALL TIMES WITHIN THE LIMITS OF THE PROJECT AND ALL NECESSARY WORK AREAS. THE CONTRACTOR SHALL PROVIDE FLAGMEN, FLASHING LIGHTS, SIGNAGE, BARRICADES, AND ANY OTHER MEANS NECESSARY.
4. NO WORK SHALL BE PERFORMED ON PRIVATE PROPERTY OR OUTSIDE OF ANY EASEMENTS WITHOUT THE COUNTY'S WRITTEN PERMISSION. THE CONTRACTOR SHALL NOT DISTURB ANY ADJACENT STRUCTURES OR STRUCTURE FOUNDATIONS DURING CONSTRUCTION. IF DAMAGED, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AT NO COST TO THE OWNER.

SITE NOTES

1. BEFORE BEGINNING ANY CONSTRUCTION, THE LOCATION OF ALL PROPOSED SITE IMPROVEMENTS SHALL BE VERIFIED FOR ACCURACY AND SHALL BE STAKED IN THE FIELD. ANY AND ALL DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND COUNTY. NO WORK SHALL BE PERFORMED OUTSIDE OF PROPERTY BOUNDARIES WITHOUT FIRST OBTAINING THE PROPER PERMITS, EASEMENTS OR AGREEMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" TO HAVE ALL UTILITIES WITHIN THE LIMITS OF PROJECT LOCATED BEFORE BEGINNING ANY WORK. CONTRACTOR SHALL NOTIFY COUNTY AFTER CONTRACTOR CONTACTS MISS UTILITY SO COUNTY CAN UPDATE UTILITY LOCATION MAP.
3. ALL EXISTING DRAINAGE STRUCTURES SHALL BE PROTECTED AND MAINTAIN POSITIVE SLOPE TO THE DRAIN INLET.
4. NO CONSTRUCTION SHALL COMMENCE UNTIL THE OWNER HAS SECURED ANY/ALL NECESSARY PLAT AND PLAN APPROVALS, ON-SITE AND OFF-SITE EASEMENT APPROVALS, CONSTRUCTION PERMITS AND DEVELOPMENT AUTHORIZATIONS FORM THE COUNTY AND OTHER AUTHORITIES OPERATING IN THE PROJECT AREA.
5. ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE COUNTY OF ALBEMARLE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR NOTIFYING THE PROPER INSPECTION AUTHORITIES AT ALL PHASES OF WORK.
6. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR CONDITIONS OF THE SITE SURVEY OR EXISTING CONDITIONS SHOWN ON THE DRAWINGS.

SIGNATURE BLOCK

	DATE
PLANNING DEPARTMENT	
ZONING DEPARTMENT	
INSPECTION DEPARTMENT	
SERVICE AUTHORITY	
ENGINEERING DEPARTMENT	
VIRGINIA DEPARTMENT OF TRANSPORTATION	
VIRGINIA HEALTH DEPARTMENT	
VIRGINIA HEALTH DEPARTMENT	
ARCHITECTURE REVIEW BOARD	
FIRE OFFICIAL	

ALBEMARLE COUNTY
CLIENT

401 MCINTIRE ROAD
CHARLOTTESVILLE, VA 22901
ADDRESS

BISCUIT RUN

INITIAL SITE PLAN

ANHOLD ASSOCIATES
LANDSCAPE ARCHITECTURE + PLANNING
8311 Rockfish Gap Turnpike
Greenwood, VA 22943

434.882.3420
anholdla.com

COMMONWEALTH OF VIRGINIA
DAVID T. ANHOLD
Lic. No. 00311
LANDSCAPE ARCHITECT

DAVID T. ANHOLD
VA LICENSED LANDSCAPE ARCHITECT
LIC NO. 00311

REVISION:

NO.	DESCRIPTION	DATE
01	PARKS & FACILITIES REVIEW	01.29.21
02	PRELIMNARY SITE PLAN	02.25.21

SCALE: AS NOTED

SHEET NAME: COVER SHEET

SHEET NUMBER: G-001

DATE: February 25, 2021

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Albemarle County General Construction Notes for Streets

1. Construction inspection of all proposed roads within the development will be made by the County. The contractor must notify the Department of Community Development (296-5832) 48 hours in advance of the start of construction.
2. Upon completion of fine grading and preparation of the roadbed subgrade, the contractor shall have CBR tests performed on the subgrade soil. Three (3) copies of the test results shall be submitted to the County. If a subgrade soil CBR of 10 or greater is not obtainable, a revised pavement design shall be made by the design engineer and submitted with the test results for approval.
3. Surface drainage and pipe discharge must be retained within the public right-of-way or within easements prior to acceptance by the County. All drainage outfall easements are to be extended to a boundary line or a natural watercourse.
4. Guardrail locations are approximate. Exact length, location and appropriate end treatments will be field verified at the time of construction. Additional guardrail may be required at locations not shown when, in the opinion of the County Engineer, or designee, it is deemed necessary. When guardrail is required, it shall be installed four (4) feet offset from the edge (16 Jun 2005) of pavement to the face of guardrail, and roadway shoulder widths shall be increased to seven (7) feet.
5. Where urban cross sections are installed, all residential driveway entrances shall conform to VDOT CG-9(A, B or C).
6. Where rural cross sections are installed, all residential driveway entrances shall conform to VDOT standard PE-1.
7. Compliance with the minimum pavement width, shoulder width and ditch sections, as shown on the typical pavement section detail, shall be strictly adhered to.
8. Road plan approval for subdivisions is subject to final subdivision plat validation. Should the final plat for this project expire prior to signing and recordation, then approval of these plans shall be null and void.
9. All signs or other regulatory devices shall conform with the Virginia Manual for Uniform Traffic Control Devices and the Albemarle County Road Naming and Property Numbering Ordinance and Manual.
10. Traffic control or other regulatory signs or barricades shall be installed by the developer when, in the opinion of the County Engineer, or designee, they are deemed necessary in order to provide safe and convenient access.
11. The speed limits to be posted on speed limit signs are 5 mph below the design speed, or as determined by VDOT for public roads.
12. VDOT standard CD-1 or CD-2 cross-drains under to be installed under the subbase material at all cut and fill transitions and grade sag points as shown on the road profiles.
13. A video camera inspection is required for all storm sewers and culverts that are deemed inaccessible to VDOT or County inspections. The video inspection shall be conducted in accordance with VDOT's video camera inspection procedure and with a VDOT or County inspector present.

Albemarle County General Construction Notes

1. Prior to any construction within any existing public right-of-way, including connection to any existing road, a permit shall be obtained from the Virginia Department of Transportation (VDOT). This plan as drawn may not accurately reflect the requirements of the permit. Where any discrepancies occur the requirements of the permit shall govern.
2. All materials and construction methods shall conform to current specifications and standards of VDOT unless otherwise noted.
3. Erosion and siltation control measures shall be provided in accordance with the approved erosion control plan and shall be installed prior to any clearing, grading or other construction.
4. All slopes and disturbed areas are to be fertilized, seeded and mulched.
5. The maximum allowable slope is 2:1 (horizontal:vertical). Where reasonably obtainable, lesser slopes of 3:1 or better are to be achieved.
6. Paved, rip-rap or stabilization mat lined ditch may be required when in the opinion of the County Engineer, or designee, it is deemed necessary in order to stabilize a drainage channel.
7. All traffic control signs shall conform with the Virginia Manual for Uniform Traffic Control Devices.
8. Unless otherwise noted all concrete pipe shall be reinforced concrete pipe - Class III.
9. All excavation for underground pipe installation must comply with OSHA Standards for the Construction Industry (29 CFR Part 1926).

Albemarle County General construction notes for Stormwater Management plans

1. All dams and constructed fill to be within 95% of maximum dry density and 2% of optimum moisture content. All fill material to be approved by a geotechnical engineer. A geotechnical engineer is to be present during construction of dams.
2. Pipe and riser joints are to be watertight within stormwater management facilities.
3. For temporary sediment traps or basins which are to be converted to permanent stormwater management facilities; conversion is not to take place until the site is stabilized, and permission has been obtained from the County erosion control inspector.

ADA NOTE:
ALL SIDEWALKS AND HANDICAP ACCESS RAMPS SHALL MEET ADA REQUIREMENTS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN DESIGN INFORMATION AND ADA REQUIREMENTS PRIOR TO CONSTRUCTION.

GENERAL NOTES:
1. PAVEMENT MARKINGS SHALL BE SPOTTED USING CHALK AND FIELD-VERIFIED BY VDOT OR THE ENGINEER PRIOR TO APPLYING THERMOPLASTIC.
2. THE CONTRACTOR SHALL MILL, OVERLAY, OR BUILD-UP THE PAVEMENT AS NECESSARY TO ACHIEVE THE REQUIRED CROSS SLOPES. MILLING AND/OR BUILD-UP DEPTHS MAY BE AS MUCH AS 4 INCHES.
3. CONTRACTOR SHALL DETERMINE SIGN SIZES PER MUTCD DESIGN STANDARDS FOR A DESIGN SPEED OF 55 MPH.

POWER AND COMMUNICATIONS NOTES:
1. ALL CONDUITS, VAULTS, AND HAND HOLES ARE TO BE INSTALLED PER THE INTENDED UTILITY COMPANIES STANDARDS, DETAILS AND SPECIFICATION.
2. DOMINION VAULTS AND CONDUITS TO BE INSTALLED IN ACCORDANCE WITH DOMINION STANDARDS, DETAILS AND SPECIFICATION. CONTRACTOR TO COORDINATE WITH DOMINION.
3. ALL CONDUITS TO HAVE PULL LINES SECURED AT BOTH ENDS FOR FUTURE WIRE PULLS

STORM DRAIN NOTES:
1. ALL PIPES ARE MEASURED FROM EDGE OF STRUCTURE TO EDGE OF STRUCTURE.
2. VDOT STANDARD ST-1 STEPS ARE REQUIRED FOR ALL CONCRETE STRUCTURES 4' TALL OR HIGHER
3. RCP PIPE TO BE CLASS II UNLESS OTHERWISE SPECIFIED.
4. ALL ROOF DRAIN PIPE FROM BUILDING TO RCP STORM SEWER SHALL BE HDPE OR EQUAL
5. ALL STORM SEWER WITH INVERTS BELOW THE NORMAL POOL OF SWM BASIN TO BE O-RING PIPE
6. BOOT CONNECTORS ARE REQUIRED FOR ALL PLASTIC PIPE CONNECTIONS INTO STORM STRUCTURES.
7. ANY STRUCTURE PROPOSED TO BE MODIFIED MUST BE REPLACED IN THE EVENT OF DAMAGE DURING MODIFICATION.

Albemarle County
Public Road Acceptance Procedure

The processing and inspection of public roads is administered by VDOT. The County is not involved in this process until the road is ready for acceptance. When the road is ready for acceptance, provide the following items to the County.

1. Inspection Request and fee
   A form and fee are required for each project as indicated on plans or bonds, or as requested for board resolution if smaller phases or individual roads are recommended for acceptance.
2. As-built plan approved by VDOT, and copies of all recorded drainage easements, sight easements, and right-of-way plats. Plats should be copies of the actual recorded documents from the Clerk's office.
   An as-built plan prepared in accordance with the County's As-Built Road Plan Policy is required. VDOT does not always follow this paperwork or policy, but for bond releases, especially where VDOT has not yet accepted the road, the minimum requirements of this policy must be met, if only to ensure that all improvements are in right-of-way and easements.
3. Written documentation of acceptance from VDOT for the entire roadway or for completed items.
   Formally, this is sent directly to the county on an AM-4.3 from VDOT, when VDOT requests that the Board of Supervisors pass a resolution of acceptance. After the resolution of acceptance is sent to VDOT, it is usually about six weeks before actual acceptance takes place, and VDOT issues a formal memo to the county with the road additions and new route numbers. This final notification is needed for bond release. For partial bond releases prior to this, some correspondence from VDOT for items inspected and approved is necessary. This is usually in the form of letters approving compaction reports, CBR's, pavement cores, pipe video, or other items where partial release is sought. A final punchlist inspection report from VDOT can be used for a partial bond release, but only if outstanding items are not too broad. If the punchlist is not official, and only a courtesy review, it carries much less weight. In any case, if there are problems meeting the eligibility or occupancy minimums, and it is not known how long improvements may sit, or need replacement, partial releases may not be possible.

Even if a bond release is not requested, an inspection from the County is required for any County items, such as the street name signs, and any sidewalks or amenities that the County required but VDOT will not maintain. This final inspection by the County must be performed before the road can be recommended to the Board of Supervisors for a resolution of public acceptance. County bond releases (or partial releases) will be considered on public roads for all portions approved by VDOT. In addition to 1-3 above, the following items are required to be submitted for bond releases to be considered:

4. Signed and sealed letter from a professional engineer listing and certifying that completed improvements are built according to plan.
   Please do not e-mail or fax copies of this letter. An original signature and certifying seal are required. Please do not use qualifying statements such as "it appeared", or "to the best of my knowledge", or "generally in accord". Improvements were either built to plan, or they were not. As-built measurements, construction inspections, and other field verifications should be cited and included. Tolerances should be noted. The items not built according to plan must be listed, with explanations. Deviation in pavement materials and thicknesses must be listed. If street trees or sidewalks, or other items were moved, or added, this should be noted. If drainage changed, by addition or deletion of culverts, inlets, or re-alignments of pipes or grades, this should be verified by revised computations and attached to the letter. If there are outstanding items or omissions, these should be listed. Graphics are helpful. In short, please provide more than a statement of opinion or assurance. Please demonstrate that the improvements and construction have been inspected, investigated and documented, and are certified in detail, and county staff will not be in the position of discovering discrepancies and deficiencies in the field.
5. Certificate of Completion
   This form must be received for release of a bond. It is available on the county website. In the case of reductions, a letter listing the outstanding items that need to be completed before signing the certification is acceptable. It must be signed by the owner. This form says all subdivision improvements have been completed. It also says that all construction conforms to approved plans and any discrepancies have been approved by the County. This means the as-built plans have been approved by VDOT, and they have agreed to any discrepancies, which should be documented in acceptance correspondence or punchlists.

Revised 7/26/2012

ALBEMARLE COUNTY PUBLIC ROAD ACCEPTANCE PROCEDURE
N.T.S.

drawing1.dwg

ALBEMARLE COUNTY
CLIENT

401 MCINTIRE ROAD
CHARLOTTESVILLE, VA 22901
ADDRESS

BISCUIT RUN

PRELIMINARY

ANHOLD ASSOCIATES
LANDSCAPE ARCHITECTURE + PLANNING

8311 Rockfish Gap Turnpike
Greenwood, VA 22943

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anholdla.com

WOOLLEY ENGINEERING
CONSULTING CIVIL ENGINEERS

210 5th Street NE
Charlottesville, VA 22902

434.973.0045
woolley-eng.com



REVISION:

NO.	DESCRIPTION	DATE

SCALE: 1" = 30' SCALE

SHEET NAME:
GENERAL CIVIL SITE NOTES

SHEET NUMBER:
G-003

DATE: DATE
February 25, 2021

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KEY

STEEP SLOPES - PRESERVED

STEEP SLOPES - MANAGED

PROPOSED PAVING

TMP 09000-00-00-006D0
COMMONWEALTH OF VIRGINIA
DEPT. OF CONSERVATION & RECREATION
ZONING: RA

C-100 EXISTING CONDITIONS & SITE DEMO PLAN - PARTIAL NORTH

C-110 E & S CONTROL PLAN - PARTIAL NORTH

L-100 LANDSCAPE SITE PLAN - PARTIAL NORTH

L-300 LANDSCAPE PLANTING PLAN - PARTIAL NORTH

C-101 EXISTING CONDITIONS & SITE DEMO PLAN - PARTIAL SOUTH

C-111 E & S PLAN - PARTIAL SOUTH

L-101 LANDSCAPE SITE PLAN - PARTIAL SOUTH

L-301 LANDSCAPE PLANTING PLAN - PARTIAL SOUTH

PROJECT LIMITS

LIMIT OF DISTURBANCE

PROJECT LIMITS

LIMIT OF GRADING

PROPOSED PARKING AREA
WITH 75 TOTAL SPACES

SOIL STOCKPILE

SIDEYARD SETBACK = 25'

PROPERTY LINE

FRONT YARD SETBACK = 75'

PROJECT LIMITS

ROUTE 20 IMPROVEMENTS
SEE CIVIL PLANS

NEW SOUTHBOUND TRANSITION
LANE PAVEMENT. SEE CIVIL PLANS

LIMITS OF DISTURBANCE

PROJECT LIMITS

F.Y.S = 75'

SWM
BASIN

ENTRANCE
WALLS

NEW CURB INLETS AND
STORMWATER UTILITIES

LIMIT OF DISTURBANCE

PROPERTY BOUNDARY

FUTURE PARK ACCESS
ROAD EXTENSION

FRONT YARD SETBACK = 75'

NEW PARK ACCESS
ROAD

LIMIT OF DISTURBANCE

LIMIT OF GRADING

PROPERTY BOUNDARY

AVON STREET

LIMIT OF DISTURBANCE

ROUTE 20

NEW PARK ENTRANCE BASED ON
VDOT COMMERCIAL ENTRANCE
DESIGN STANDARDS

NEW 200' RIGHT TURN LANE
SEE CIVIL PLANS

BEGIN NEW TURN
LANE TAPER

PROJECT LIMITS

0 30 60 120

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ALBEMARLE COUNTY
CLIENT

401 MCINTIRE ROAD
CHARLOTTESVILLE, VA 22901
ADDRESS

BISCUIT RUN

INITIAL SITE PLAN

ANHOLD ASSOCIATES
LANDSCAPE ARCHITECTURE + PLANNING
8311 Rockfish Gap Turnpike
Greenwood, VA 22943

434.882.3420
anholdla.com

COMMONWEALTH OF VIRGINIA
DAVID T. ANHOLD
Lic. No. 00311
LANDSCAPE ARCHITECT

DAVID T. ANHOLD
VA LICENSED LANDSCAPE ARCHITECT
LIC NO. 00311

REVISION:

NO.	DESCRIPTION	DATE
01	PARKS & FACILITIES REVIEW	01.29.21
02	PRELIMNARY SITE PLAN	02.25.21

SCALE: 1" = 60'

SHEET NAME:
SITE CONTEXT & KEY PLAN

SHEET NUMBER:
G-004

DATE:
February 25, 2021

KEY

STEEP SLOPES - PRESERVED

STEEP SLOPES - MANAGED

PROJECT LIMITS

LIMITS OF SITE DISTURBANCE. SEE LANDSCAPE AND CIVIL SITE PLANS.

LIMIT OF DISTURBANCE

LIMITS OF EXISTING WOODLAND EDGE TO REMAIN AFTER DEMOLITION.

GREY TONED AREA DENOTES LIMITS OF EXISTING WOODLAND TO BE CLEARED AND GRUBBED FOR PROPOSED CONSTRUCTION

PROJECT LIMITS

LIMIT OF GRADING

LIMITS OF EXISTING WOODLAND EDGE TO REMAIN AFTER DEMOLITION.

APPROXIMATE LIMITS OF EXISTING WOODLAND TO BE CLEARED AND GRUBBED FOR STOCKPILING EXCESS SOIL. CONTRACTOR TO VERIFY EXACT AREA REQUIREMENTS.

PROJECT LIMITS

THIS AREA OF EXISTING WOODLAND SHALL NOT BE CLEARED.

STEEP SLOPES - PRESERVED, TYPICAL SEE STEEP SLOPES KEY.

EXISTING WOODLAND EDGE

LIMITS OF EXISTING WOODLAND EDGE TO REMAIN AFTER DEMOLITION.

LIMITS OF EXISTING WOODLAND VEGETATION TO BE CLEARED AND GRUBBED FOR PROPOSED CONSTRUCTION

CONTRACTOR SHALL NOT DAMAGE OR ADVERSELY AFFECT ANY UTILITY POLES WITHIN THE PROJECT AREA. COORDINATE ALL DEMOLITION AND SITE WORK WITH UTILITY OWNERS, TYPICAL.

FRONT YARD SETBACK = 75'

CONTRACTOR SHALL USE EXISTING GATE AND MOWED UTILITY POLE CORRIDOR FOR INITIAL SITE ACCESS AND EQUIPMENT MOBILIZATION. SEE SHEET C-110, E&S PLAN FOR SITE ACCESS CONSTRUCTION ENTRANCES.

F.Y.S = 75'

CONTRACTOR SHALL NOT DAMAGE OR ADVERSELY AFFECT ANY UTILITY POLES WITHIN THE PROJECT AREA. COORDINATE ALL DEMOLITION AND SITE WORK WITH UTILITY OWNERS, TYPICAL.

EXISTING WOODLAND EDGE

LIMIT OF DISTURBANCE

LIMITS OF SITE DISTURBANCE, TYPICAL SEE LANDSCAPE AND CIVIL SITE PLANS.

STEEP SLOPES - PRESERVED, TYPICAL SEE STEEP SLOPES KEY.

LIMITS OF EXISTING WOODLAND TO BE CLEARED AND GRUBBED FOR PROPOSED CONSTRUCTION

LIMIT OF GRADING

PROPERTY LINE

CONTRACTOR SHALL CLEAN EXISTING DEBRIS AND SEDIMENT FROM EXISTING ENDWALL DEPRESSON. SEE CIVIL SITE PLANS FOR PROPOSED DRAINAGE IMPROVEMENTS.

LIMITS OF PROJECT

LIMIT OF DISTURBANCE

CONTRACTOR SHALL CLEAN EXISTING DEBRIS AND SEDIMENT FROM EXISTING STORM PIPE DEPRESSON. SEE CIVIL SITE PLANS FOR PROPOSED DRAINAGE IMPROVEMENTS.

STEEP SLOPES - MANAGED, TYPICAL SEE STEEP SLOPES KEY.

ROUTE 20

SEE CIVIL SITE PLANS FOR ALL DEMOLITION AND ALTERATION WORK ASSOCIATED WITH EXISTING RTE. 20

PROJECT LIMITS

SEE DRAWING C-101 MATCH LINE

AVON STREET

STOP

STREET

0 15 30 60

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REVISION:

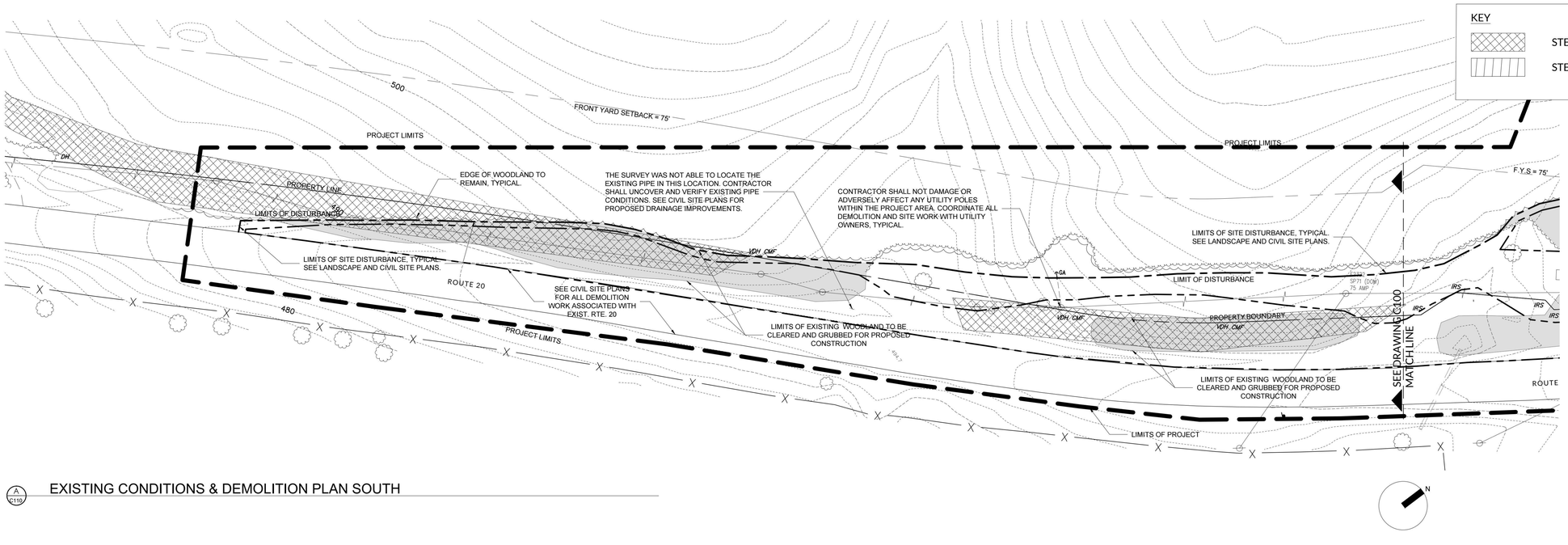
NO.	DESCRIPTION	DATE
01	PARKS & FACILITIES REVIEW	01.29.21
02	PRELIMNARY SITE PLAN	02.25.21

SCALE: 1" = 30'

SHEET NAME:
EXISTING CONDITIONS & SITE DEMO PLAN NORTH

SHEET NUMBER:
C-100

DATE:
February 25, 2021



A 2110 EXISTING CONDITIONS & DEMOLITION PLAN SOUTH

ALBEMARLE COUNTY
CLIENT

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REVISION:

NO.	DESCRIPTION	DATE
01	PARKS & FACILITIES REVIEW	01.29.21
02	PRELIMNARY SITE PLAN	02.25.21

SCALE: 1" = 30'

SHEET NAME:
EXISTING CONDITIONS & SITE DEMO PLAN SOUTH

SHEET NUMBER:
C-101

DATE:
February 25, 2021

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LEGEND

- CE — CONSTRUCTION ENTRANCE
- CD — ROCK CHECK DAM
- SF — SILT FENCE
- IP — STORM DRAIN INLET PROTECTION
- TO — TOPSOILING
- PS — PERMANENT SEEDING
- SCC — STORMWATER CONVEYANCE CHANNEL
- CRS — CONSTRUCTION ROAD STABILIZATION
- OP — OUTLET PROTECTION
- ST — SEDIMENT TRAP
- DV — DIVERSION

KEY

- STEEP SLOPES - PRESERVED
- STEEP SLOPES - MANAGED
- PROPOSED PAVING

PROJECT LIMITS

EDGE OF EXISTING WOODLAND TO REMAIN.

EXISTING DRAINAGE DIVIDE

LIMIT OF DISTURBANCE

LIMIT OF GRADING

LIMITS OF GRADING

LIMITS OF SITE DISTURBANCE

3:1 SLOPE

3.5:1 SLOPE

+561.00

BIOFILTER #2
+517.00
2,575 SF

EXCESS SOIL STOCKPILE AREA. CONTRACTOR TO VERIFY EXACT AREA REQUIREMENTS.

FRONT YARD SETBACK = 75'

F.Y.S = 75'

PHASE -1 CONSTRUCTION ENTRANCE FOR INITIAL SITE ACCESS AND CONTRACTOR MOBILIZATION. THIS CE SHALL BE REMOVED ONCE THE PHASE-2 ENTRANCE CONSTRUCTED.

PHASE -2 CONSTRUCTION ENTRANCE SHALL BE INSTALLED AFTER PARK ENTRANCE AND ACCESS ROAD GRADING WORK HAVE BEEN COMPLETED.

WHILE USING THIS CE, THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL AS REQUIRED BY VDOT.

AVON STREET

ROUTE 20

SEE DRAWING C111 MATCHLINE

0 15 30 60

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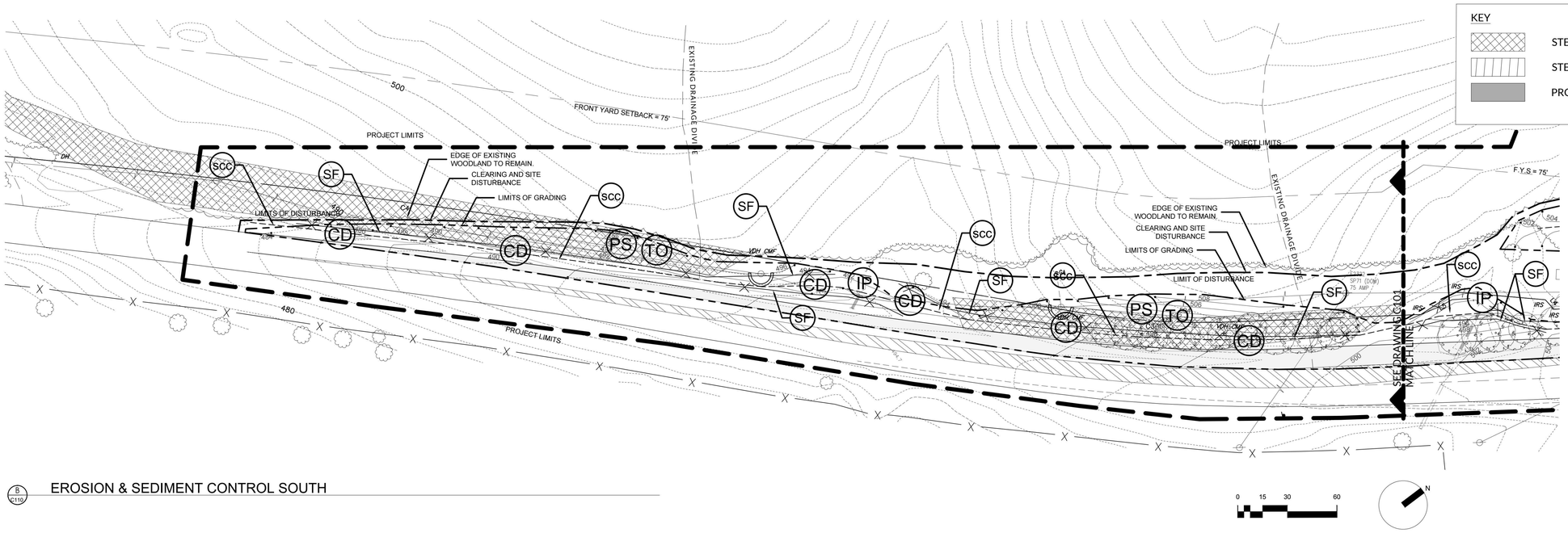
NO.	DESCRIPTION	DATE
01	PARKS & FACILITIES REVIEW	01.29.21
02	PRELIMNARY SITE PLAN	02.25.21

SCALE: 1" = 30'

SHEET NAME:
E&S PLAN- PARTIAL NORTH

SHEET NUMBER:
C-110

DATE:
February 26, 2021



8/C110 EROSION & SEDIMENT CONTROL SOUTH

LEGEND

- CE — CONSTRUCTION ENTRANCE
- CD — ROCK CHECK DAM
- SF — SILT FENCE
- IP — STORM DRAIN INLET PROTECTION
- TO — TOPSOILING
- PS — PERMANENT SEEDING
- SCC — STORMWATER CONVEYANCE CHANNEL
- CRS — CONSTRUCTION ROAD STABILIZATION
- OP — OUTLET PROTECTION
- ST — SEDIMENT TRAP
- DV — DIVERSION

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REVISION:

NO.	DESCRIPTION	DATE
01	PARKS & FACILITIES REVIEW	01. 29.21
02	PRELIMNARY SITE PLAN	02. 25.21

SCALE: 1" = 30'

SHEET NAME:
E&S PLAN-PARTIAL SOUTH & NOTES

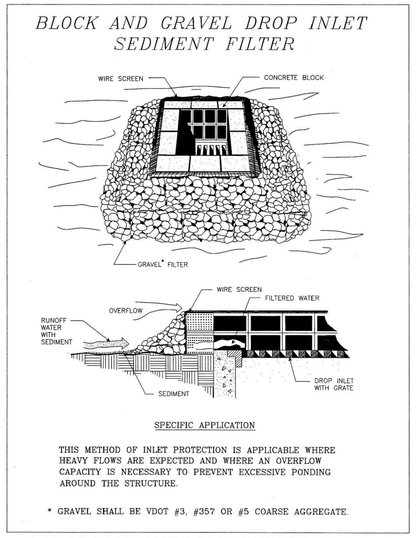
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C-111

DATE:
February 25, 2021

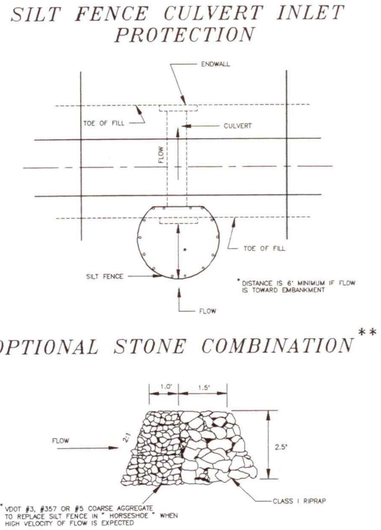
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GENERAL CONSTRUCTION NOTES FOR EROSION AND SEDIMENT CONTROL PLANS

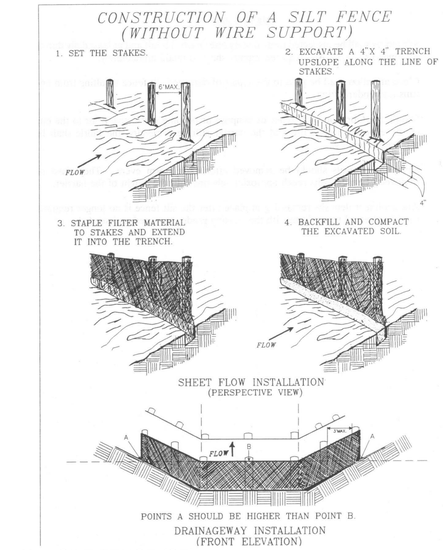
1. THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
7. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
8. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
9. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF- PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
10. ALL FILL MATERIAL TO BE TAKEN FROM AN APPROVED, DESIGNATED BORROW AREA.
11. ALL WASTE MATERIALS SHALL BE TAKEN TO AN APPROVED WASTE AREA. EARTH FILL SHALL BE INERT MATERIALS ONLY, FREE OF ROOTS, STUMPS, WOOD, RUBBISH, AND OTHER DEBRIS.
12. BORROW OR WASTE AREAS ARE TO BE RECLAIMED WITHIN 7 DAYS OF COMPLETION PER ZONING ORDINANCE SECTION 5.1.28.
13. ALL INERT MATERIALS SHALL BE TRANSPORTED IN COMPLIANCE WITH SECTION 13-301 OF THE CODE OF ALBEMARLE.
14. BORROW, FILL OR WASTE ACTIVITY INVOLVING INDUSTRIAL-TYPE POWER EQUIPMENT SHALL BE LIMITED TO THE HOURS OF 7:00AM TO 9:00PM.
15. BORROW, FILL OR WASTE ACTIVITY SHALL BE CONDUCTED IN A SAFE MANNER THAN MAINTAINS LATERAL SUPPORT, OR ORDER TO MINIMIZE ANY HAZARD TO PERSONS, PHYSICAL DAMAGE TO ADJACENT LAND AND IMPROVEMENTS, AND DAMAGE TO ANY PUBLIC STREET BECAUSE O SLIDES, SINKING, OR COLLAPSE.
16. THE DEVELOPER SHALL RESERVE THE RIGHT TO INSTALL, MAINTAIN, REMOVE OR CONVERT TO PERMANENT STORMWATER MANAGEMENT FACILITIES WHERE APPLICABLE ALL EROSION CONTROL MEASURES REQUIRED BY THIS PLAN REGARDLESS OF THE SALE OF ANY LOT, UNIT, BUILDING OR OTHER PORTION OF THE PROPERTY.
17. TEMPORARY STABILIZATION SHALL BE TEMPORARY SEEDING AND MULCHING. SEEDING IS TO BE AT 75 LBS/ACRE, AND IN THE MONTHS OF SEPTEMBER TO FEBRUARY TO CONSIST A 50/50 MIX OF ANNUAL RYEGRASS AND CEREAL WINTER RYE, OR IN MARCH AND APRIL TO CONSIST OF ANNUAL RYE, OR MAY THROUGH AUGUST TO CONSIST OF GERMAN MILLET. STRAW MULCH IS TO BE APPLIED AT 80LBS/100SF. ALTERNATIVES ARE SUBJECT TO APPROVED BY THE COUNTY EROSION CONTROL INSPECTOR.
18. PERMANENT STABILIZATION SHALL BE LIME AND FERTILIZER, PERMANENT SEEDING, AND MULCH. AGRICULTURAL GRADE LIMESTONE SHALL BE APPLIED AT 90LBS/1000SF, INCORPORATED INTO THE TOP 4-6 INCHES OF SOIL. FERTILIZER SHALL BE APPLIED AT 1000LBS/ACRE AND CONSIST OF A 10-20-10 NUTRIENT MIX. PERMANENT SEEDING SHALL BE APPLIED AT 180LBS/ACRE AND CONSIST OF 95% KENTUCKY 31 OR TALL FESCUE AND 0-5% PERENNIAL RYEGRASS OR KENTUCKY BLUEGRASS. STRAW MULCH IS TO BE APPLIED AT 80LBS/100SF. ALTERNATIVES ARE SUBJECT TO APPROVED BY THE COUNTY EROSION CONTROL INSPECTOR.
19. MAINTENANCE: ALL MEASURES ARE TO BE INSPECTED WEEKLY AND AFTER EACH RAINFALL. ANY DAMAGE OR CLOGGING TO STRUCTURAL MEASURES IS TO BE REPAIR IMMEDIATELY. SILT TRAPS ARE TO BE CLEANED WHEN 50% OF THE WET STORAGE VOLUME IS FILLED WITH SEDIMENT. ALL SEEDED AREAS ARE TO BE RESEEDED WHEN NECESSARY TO ACHIEVE A GOOD STAND OF GRASS. SILT FENCE AND DIVERSION DYKES WHICH ARE COLLECTING SEDIMENT TO HALF THEIR HEIGHT MUST BE CLEANED AND REPAIRED IMMEDIATELY.
20. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE REMOVED WITHIN 30 DAYS OF FINAL SITE STABILIZATION, WHEN MEASURES ARE NO LONGER NEEDED, SUBJECT TO APPROVAL BY THE COUNTY EROSION CONTROL INSPECTOR.



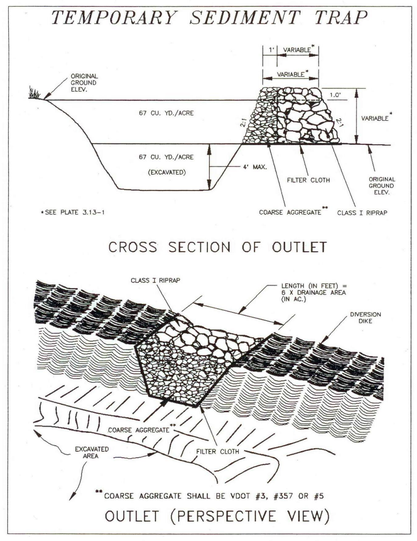
1 C-112 DROP INLET SEDIMENT TRAP (ST)
NTS



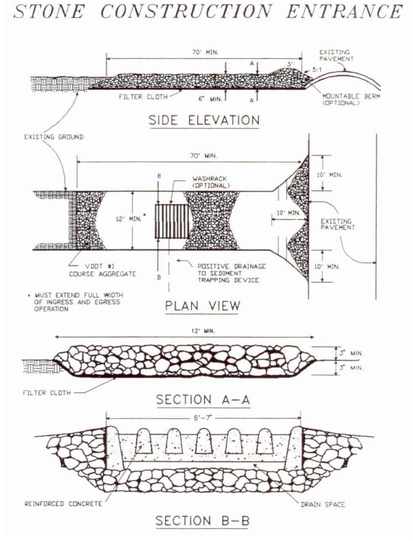
2 C-112 SILT FENCE CULVERT INLET PROTECTION (IP)
NTS



3 C-112 SILT FENCE (SF)
NTS

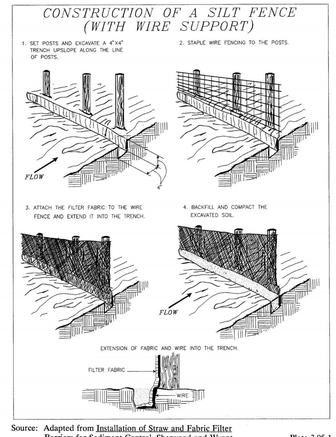


4 C-112 TEMPORARY SEDIMENT TRAP (ST)
NTS



5 C-112 STONE CONSTRUCTION ENTRANCE (CE)
NTS

1992 3.05



Source: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood and Wyant

Plate 3.05-1

III - 24

6 C-112 SILT FENCE WITH WIRE SUPPORT
NTS

TEMPORARY SEEDING PLANT MATERIALS, SEEDING RATES, AND DATES

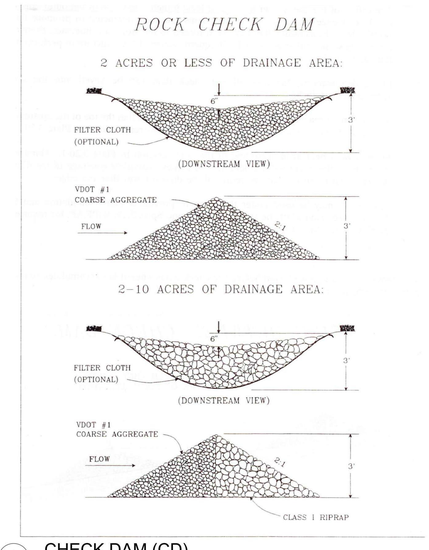
1992

SPECIES	SEEDING RATE		NORTH[a]			SOUTH[b]			PLANT CHARACTERISTICS
	Acre	1000 ft²	3/1 to 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	
OATS (Avena sativa)	3 bu. (up to 100 lbs., not less than 50 lbs.)	2 lbs.	X	-	-	X	-	-	Use spring varieties (e.g., Noble).
RYE[d] (Secale cereale)	2 bu. (up to 110 lbs., not less than 50 lbs.)	2.5 lbs.	X	-	X	X	-	X	Use for late fall seedings, winter cover. Tolerates cold and low moisture.
GERMAN MILLET (Setaria italica)	50 lbs.	approx. 1 lb.	-	X	-	-	X	-	Warm-season annual. Dies at first frost. May be added to summer mixes.
ANNUAL RYEGRASS[c] (Lolium multi-florum)	60 lbs.	1½ lbs.	X	-	X	X	-	X	May be added in mixes. Will mow out of most stands.
WEEPING LOVEGRASS (Eragrostis curvula)	15 lbs.	5½ ozs.	-	X	-	-	X	-	Warm-season perennial. May bunch. Tolerates hot, dry slopes and acid, infertile soils. May be added to mixes.
KOREAN LESPEDEZA[c] (Lespedeza stipulacea)	25 lbs.	approx. 1½ lbs.	X	X	-	X	X	-	Warm season annual legume. Tolerates acid soils. May be added to mixes.

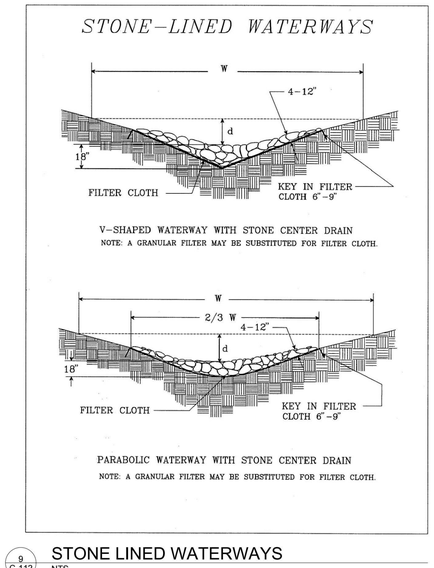
[a] Northern Piedmont and Mountain region. See Plates 3.22-1 and 3.22-2.
[b] Southern Piedmont and Coastal Plain.
[c] May be used as a cover crop with spring seeding.
[d] May be used as a cover crop with fall seeding.
X May be planted between these dates.
- May not be planted between these dates.

3.31

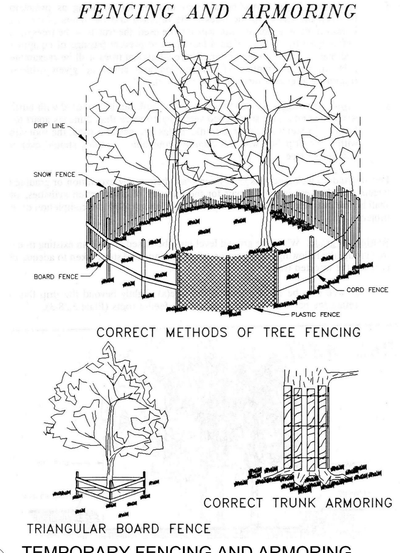
7 C-112 TEMPORARY SEEDING PLANT MATERIALS (TS)
NTS



8 C-112 CHECK DAM (CD)
NTS



9 C-112 STONE LINED WATERWAYS
NTS



10 C-112 TEMPORARY FENCING AND ARMORING
NTS

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02	PRELIMNARY SITE PLAN	02.25.21

SCALE: 1" = 30'

SHEET NAME:
E&S DETAILS

SHEET NUMBER:
C-112

DATE:
February 25, 2021

KEY

STEEP SLOPES - PRESERVED

STEEP SLOPES - MANAGED

PROPOSED PAVING

PROJECT LIMITS

LIMIT OF DISTURBANCE

LIMIT OF GRADING

MOWED PATH TO BE STAKED

ASPHALT PAVING 1 L-200

CONCRETE PAVING 3 L-200

CURB AND GUTTER SEE CIVIL DETAILS

EXISTING TRAIL

HILLTOP LAWN TERRACES

DETAIL AREA PLAN 1 L-201

STONE DUST PAVING 4 L-200

LAWN

SWM SWALE

PROPOSED PARKING AREA WITH 26 TOTAL SPACES

VAULT TOILET

HC VAN

HC

HC

REG

STAIR TYPE 2 2 L-202

POLLINATOR MEADOW

DI-I INLET AND STORM PIPES SEE CIVIL DETAILS

SOIL STOCKPILE

PROPOSED TRAIL

EXISTING TREES TO REMAIN, TYP.

SERVICE DR

NEW PARK ACCESS ROAD

BIOFILTER #2 +517.00 2,575 SF SWM BASIN

PROPOSED GRADING AT 3:1 MAX. SLOPES, TYP.

ENTRANCE WALLS NUMBER L200

NEW CURB INLETS AND STORMWATER UTILITIES SEE CIVIL DETAILS

FRONT YARD SETBACK = 75'

F.Y.S = 75'

PROPERTY BOUNDARY

AVON STREET

HATCH INDICATES PROPOSED NEW PAVEMENT EXPANSION ALONG ROUTE 20

BEGIN NEW TURN LANE TAPER

NEW 200' RIGHT TURN LANE. SEE CIVIL PLANS

NEW PARK ENTRANCE BASED ON VDOT COMMERCIAL ENTRANCE DESIGN STANDARDS

NEW LANE STRIPING. TYPICAL. SEE CIVIL PLANS

ROUTE 20

SEE DRAWING L-101 MATCH LINE

0 15 30 60

N

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LIC NO. 00311

REVISION:

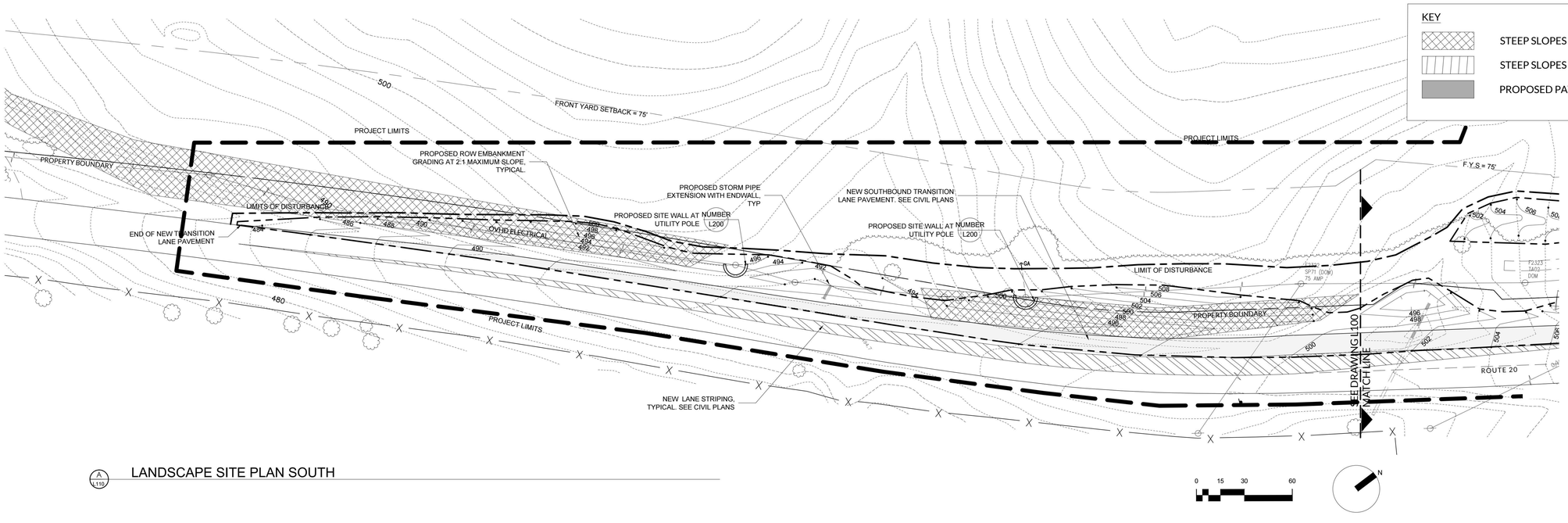
NO.	DESCRIPTION	DATE
01	PARKS & FACILITIES REVIEW	01.29.21
02	PRELIMNARY SITE PLAN	02.25.21

SCALE: 1" = 30'

SHEET NAME:
LANDSCAPE SITE PLAN-PARTIAL NORTH

SHEET NUMBER:
L-100

DATE:
February 26, 2021



A
L110

LANDSCAPE SITE PLAN SOUTH

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BISCUIT RUN

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VA LICENSED LANDSCAPE ARCHITECT
LIC NO. 00311

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NO.	DESCRIPTION	DATE
01	PARKS & FACILITIES REVIEW	01.29.21
02	PRELIMNARY SITE PLAN	02.25.21

SCALE: 1" = 30'

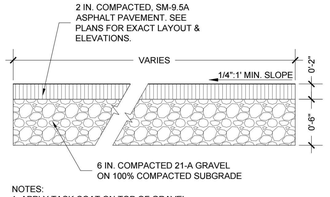
SHEET NAME:
LANDSCAPE SITE PLAN-PARTIAL SOUTH

SHEET NUMBER:
L-101

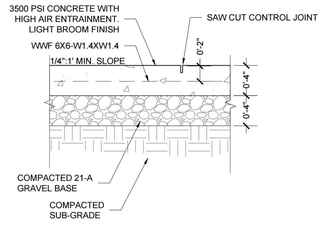
DATE:
February 25, 2021

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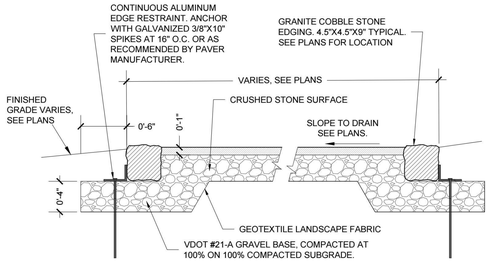
1 L-200 NOT USED



2 L-200 ASPHALT SIDEWALK
1 1/2" = 1'-0"

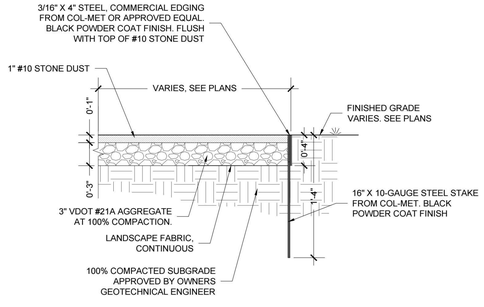


3 L-200 CONCRETE PAVEMENT
1 1/2" = 1'-0"



NOTES:
1. FINAL CONCRETE PAVER TYPE, SIZE, AND COLOR SHALL BE BY OWNER.
2. USE HIGH PERFORMANCE, POLYMERIC JOINT SAND
3. SUBBASE SHALL BE INSPECTED AND APPROVED IN WRITING BY OWNERS GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

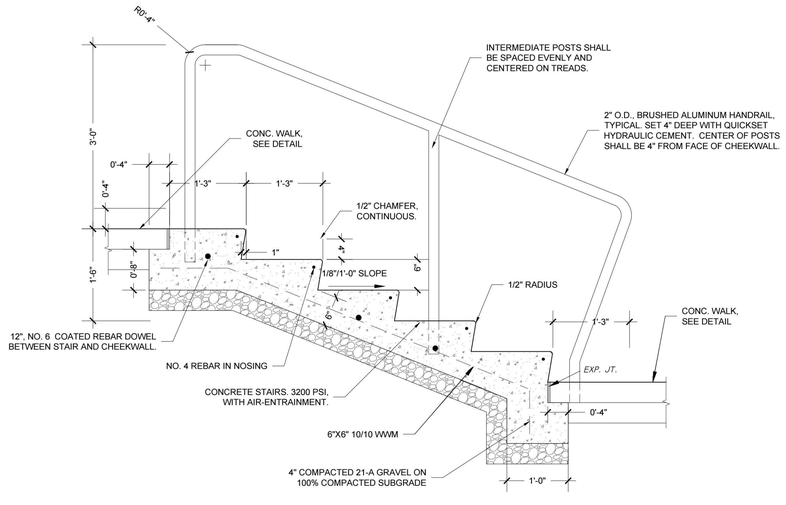
4 L-200 STONE DUST PATH WITH COBBLE
1 1/2" = 1'-0"



NOTES:
1. STEEL EDGING SHALL BE INSTALLED ALONG THE EDGE OF ALL GRAVEL WALKS AND SEATING AREAS THAT ARE NOT CONTAINED BY AN ADJACENT PAVEMENT OR BY ANOTHER HARD EDGE.

2. LANDSCAPE FABRIC SHALL BE PERMEABLE, SPUN BONDED, TYPAR LANDSCAPE FABRIC OR APPROVED EQUAL.

5 L-200 GRAVEL AND STEEL EDGING
1 1/2" = 1'-0"



NOTE: SEE PLANS FOR EXACT LAYOUT AND NUMBER OF RISERS.

6 L-200 CONCRETE STAIR
1" = 1'-0"

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REVISION:

NO.	DESCRIPTION	DATE
01	PARKS & FACILITIES REVIEW	01. 29.21
02	PRELIMNARY SITE PLAN	02. 25.21

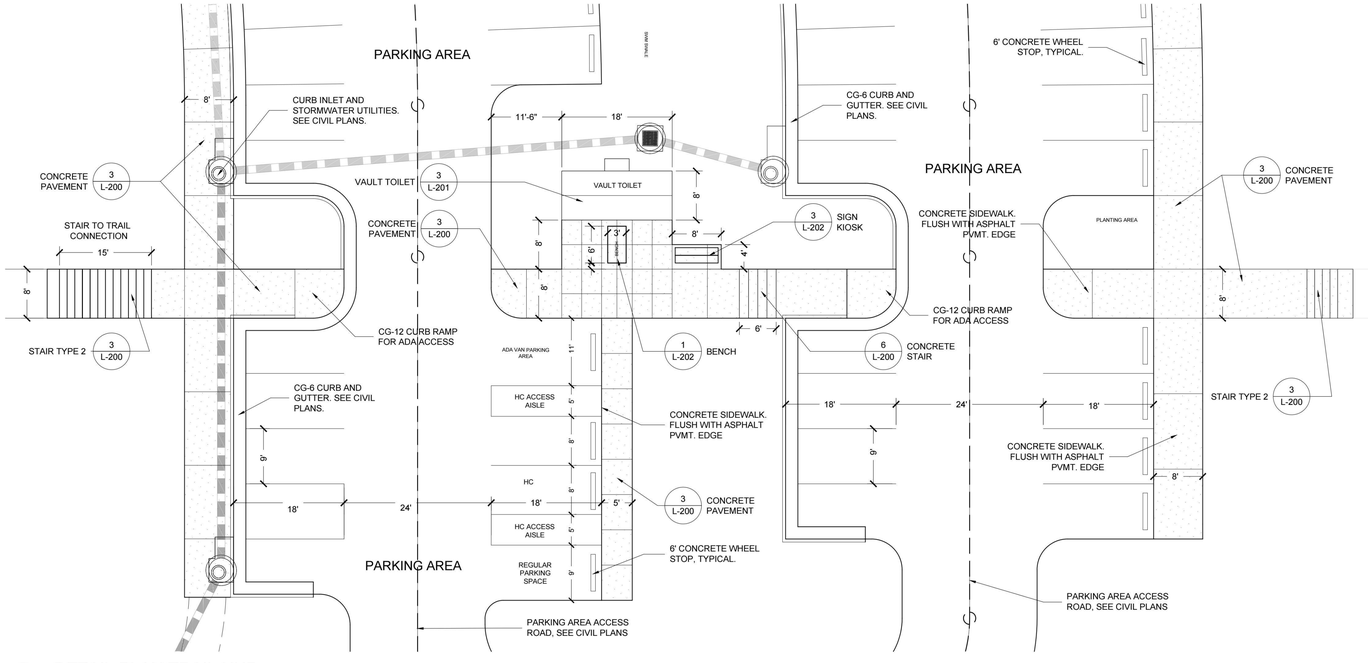
SCALE: AS SHOWN

SHEET NAME:
LANDSCAPE SITE DETAILS - PAVING

SHEET NUMBER:
L-200

DATE:
February 25, 2021

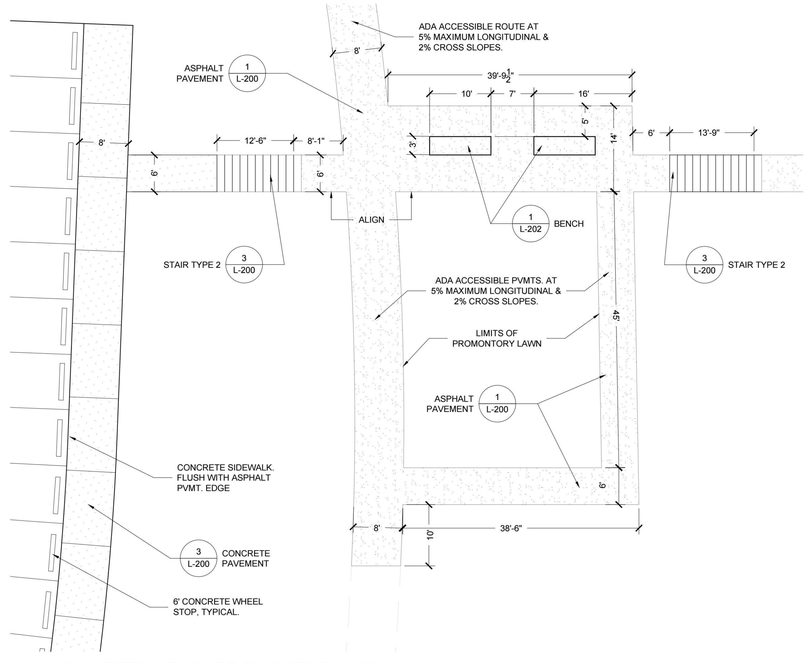
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1 L-201 DETAIL PLAN TRAIL HUB
SCALE: 1" = 10'

0 5 10 20

N



2 L-201 DETAIL PLAN PROMONTORY LAWN
SCALE: 1" = 10'

0 5 10 20

N

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01	PARKS & FACILITIES REVIEW	01.29.21
02	PRELIMNARY SITE PLAN	02.25.21

SCALE: AS SHOWN

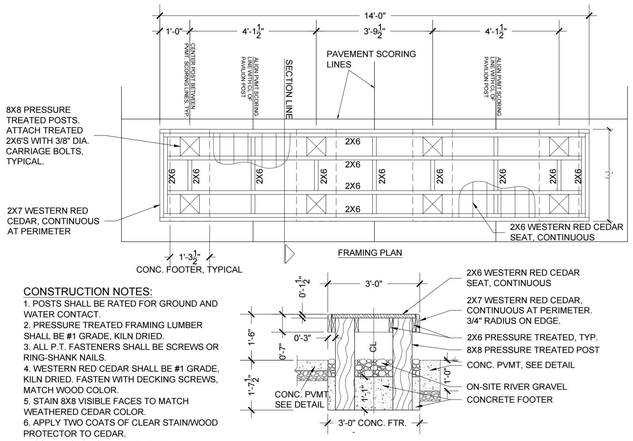
SHEET NAME:
LANDSCAPE SITE DETAILS

SHEET NUMBER:
L-201

DATE:
February 26, 2021

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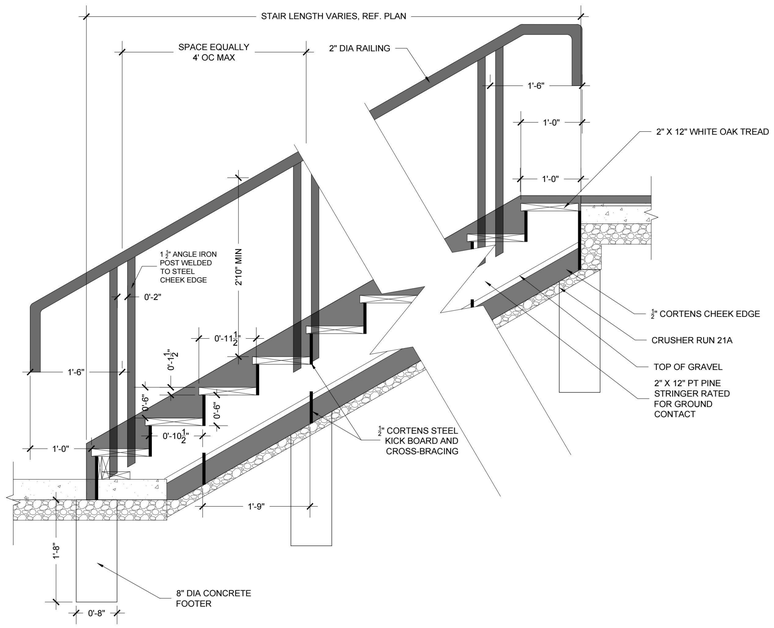


FRAMING PLAN

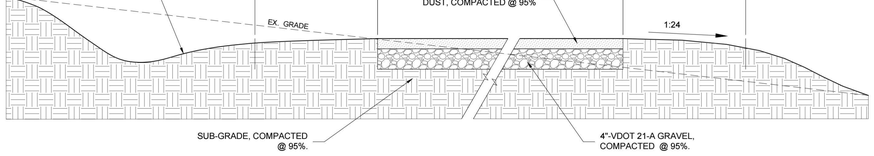
CONSTRUCTION NOTES:

1. POSTS SHALL BE RATED FOR GROUND AND WATER CONTACT.
2. PRESSURE TREATED FRAMING LUMBER SHALL BE #1 GRADE, KILN DRIED.
3. ALL P.T. FASTENERS SHALL BE SCREWS OR RING-SHANK NAILS.
4. WESTERN RED CEDAR SHALL BE #1 GRADE, KILN DRIED. FASTEN WITH DECKING SCREWS, MATCH WOOD COLOR.
5. STAIN 8X8 VISIBLE FACES TO MATCH WEATHERED CEDAR COLOR.
6. APPLY TWO COATS OF CLEAR STAIN/WOOD PROTECTOR TO CEDAR.
7. CONTRACTOR SHALL VERIFY ALL PVMT. SCORING LINE LAYOUT DIMENSIONS PRIOR TO CONSTRUCTION.

1 L-202 **BENCH DETAIL**
1/2" = 1'-0"



2 L-202 **STAIR DETAIL TYPE 2**
1" = 1'-0"



NOTE:
1. REFERENCE PLAN FOR TRAIL SURFACE MATERIAL.
2. REFERENCE GRADING PLAN FOR PROPOSED SLOPE CONDITIONS.

3 L-202 **TYPICAL TRAIL SECTION**
1" = 1'-0"

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01	PARKS & FACILITIES REVIEW	01.29.21
02	PRELIMNARY SITE PLAN	02.25.21

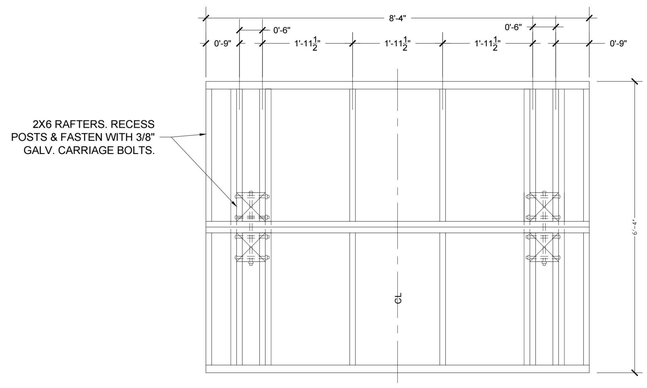
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SHEET NAME:
LANDSCAPE SITE DETAILS - CONT'D

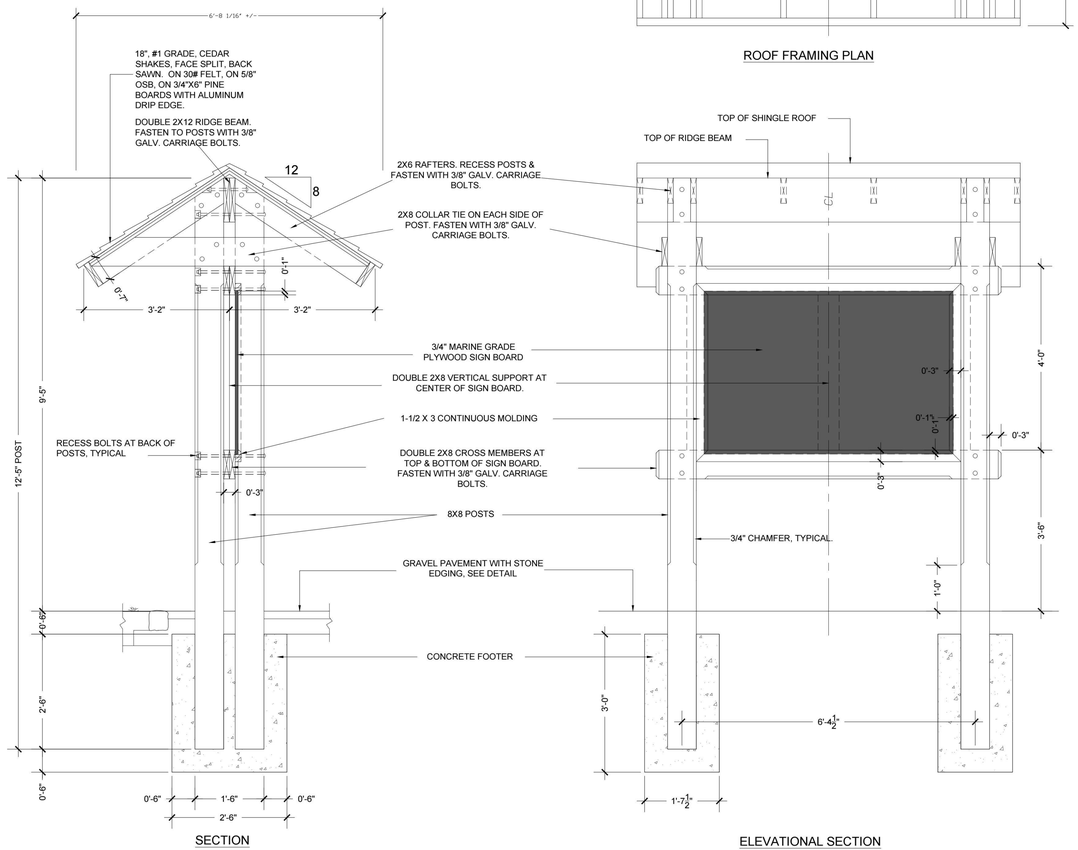
SHEET NUMBER:
L-202

DATE:
February 26, 2021

CONSTRUCTION NOTES:
1. POSTS SHALL BE PRESSURE TREATED FOR GROUND AND FRESH WATER CONTACT USE.
2. ALL FRAMING LUMBER SHALL BE NO.1 GRADE, KILN DRIED, SOUTHERN PINE.
3. ALL FASTENERS SHALL BE GALV. SPIRAL NAILS OR DECKING SCREWS.
4. SIGN MOLDING SHALL BE FASTENED WITH SCREWS.
5. INSTALL SHINGLES ACCORDING TO MANUFACTURER RECOMMENDATIONS.
6. PROVIDE TWO COATS OF OPAQUE STAIN FOR ALL VISIBLE FACES. ROOF SHALL NOT BE STAINED. COLOR BY OWNER.



ROOF FRAMING PLAN



SECTION

ELEVATIONAL SECTION

1 / L-203 KIOSK DETAIL
3/4" = 1'

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01	PARKS & FACILITIES REVIEW	01.29.21
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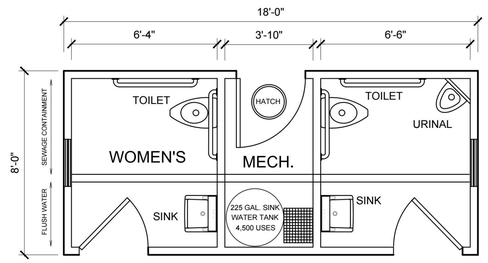
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LANDSCAPE SITE DETAILS - KIOSK

SHEET NUMBER:
L-203

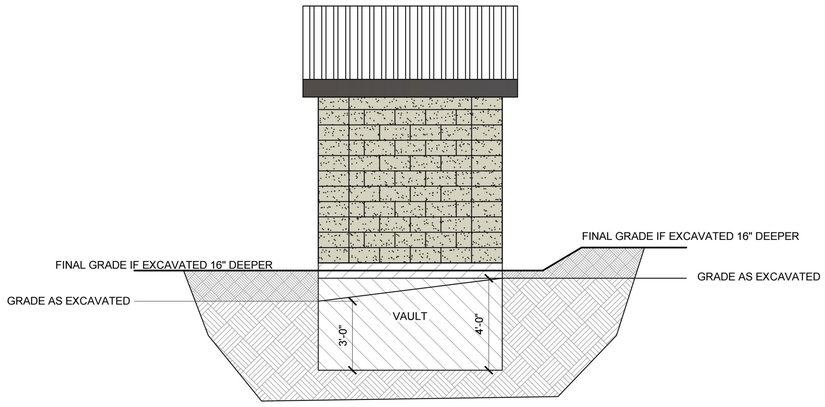
DATE:
February 25, 2021

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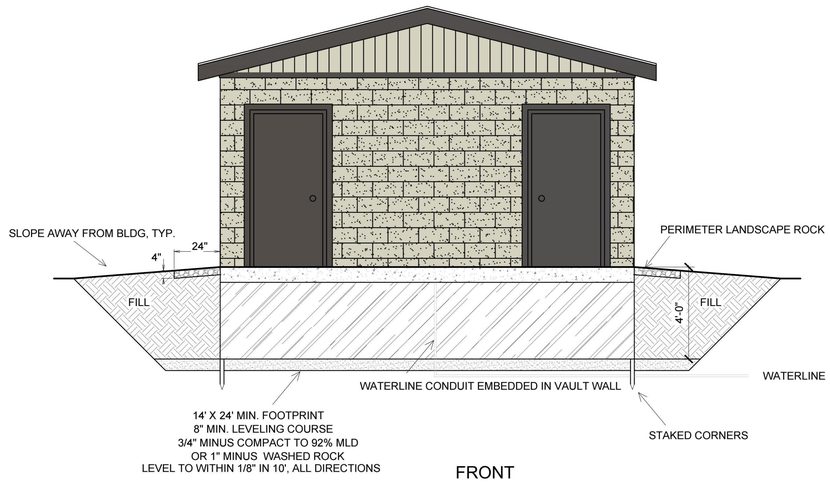


PLAN VIEW

VAULT TOILET NOTES:
1. VAULT TOILET SHALL BE DURANGO II MODEL FROM GREEN FLUSH TECHNOLOGIES, WASHOUGAL, WASHINGTON OR APPROVED EQUAL.



SIDE
ELEVATION



FRONT
ELEVATION

1
L-210
VAULT TOILET DETAILS
3/8"=1'-0"

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LIC NO. 00311

REVISION:

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SCALE: AS SHOWN

SHEET NAME:
VAULT TOILET DETAILS

SHEET NUMBER:
L-210

DATE:
February 25, 2021

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30 0 30 60 90
SCALE: 1" = 30'

PROJECT LIMITS

PROPOSED LIMITS OF DISTURBANCE (TYP)

PROPOSED WALKING PATH (TYP)

"BISCUIT RUN"
1194.783 ACRES
90-6D
DB 3835 PG 706

STANDARD CG-6 (TYP)

CONCRETE SIDEWALK

VAULT TOILET

CONCRETE STAIRS

WHEELSTOP (TYP)

CONCRETE STAIRS

CONCRETE STAIRS

PROPOSED LIMITS OF DISTURBANCE (TYP)

SOIL STOCKPILE LOCATION

R420'

R505'

CONCRETE SIDEWALK

R514'

PROPOSED LIMITS OF DISTURBANCE (TYP)

CONCRETE STAIRS

NEW PAINT STRIPING

BIOFILTER #1

PROPOSED STORMWATER MANAGEMENT EASEMENT

BIOFILTER #2

PROPOSED NEW PUBLIC RIGHT-OF-WAY

PROPOSED 20' WIDE PUBLIC DRAINAGE EASEMENT

PROPOSED 20' WIDE PUBLIC DRAINAGE EASEMENT

PROPOSED ENTRANCE WALL

PROPOSED 20' WIDE PUBLIC DRAINAGE EASEMENT

PROPOSED ENTRANCE WALL

STANDARD CG-6 (TYP)

NEW PAINT STRIPING (SEE SHEET C-701)

NEW RIGHT TURN LANE

EXISTING GRAVEL SHOULDER (TO REMAIN)

EXISTING EDGE OF PAVEMENT

200' LENGTH TAPER

200' LENGTH TURN LANE

200' LENGTH TURN LANE

200' LENGTH TAPER

650' SIGHT DISTANCE

690' SIGHT DISTANCE

MATCHLINE SEE SHEET C-201

S 41°14'17" W 54.66'

S 34°02'34" W 147.09'

S 12°38'22" W 78.07'

S 43°49'47" W 120.00'

(418.80')
S 29°57'16" W 548.97' (TOTAL)

(130.17')

S 41°30'30" W
124.78'

VA SEC. RTE 20 - "SCOTTSVILLE ROAD" - (VARIABLE WIDTH R/W)
DB 288 PG 324 - HWPB I PG 43 DB 288 PG 331 - HWPB I PG 40
DB 288 PG 355 - HWPB I PG 45 DB 1077 PG 100 - HWPB XI PG 39

VA SEC. RTE 742 - "AVON STREET EXT." (VARIABLE WIDTH R/W)
DB 1077 PG 325
HWPB VI PG 144

EXISTING SIGN

PROPOSED LIMITS OF DISTURBANCE

SIGHT DISTANCE TRIANGLE POINT OF REFERENCE

NEW CONDUIT TO SERVICE LIGHTED ENTRANCE SIGNS

EXISTING EDGE OF PAVEMENT (TO REMAIN)

EXISTING EDGE OF PAVEMENT (TO REMAIN)

EXISTING GUARDRAIL (TO REMAIN)

APPROX. LIMITS OF MILLING AND REPAVING EXISTING ROADWAY

APPROX. LIMITS OF NEW ASPHALT ALONG ROUTE 20

INV. (511.02)

INV. (506.72)

INV. (528.70)

INV. (526.51)

INV. (525.61)

INV. (518.91)

FIBER MARKER

STOP

STREET+

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ERIC W. WOOLLEY
LIC. NO. 37088
PROFESSIONAL ENGINEER

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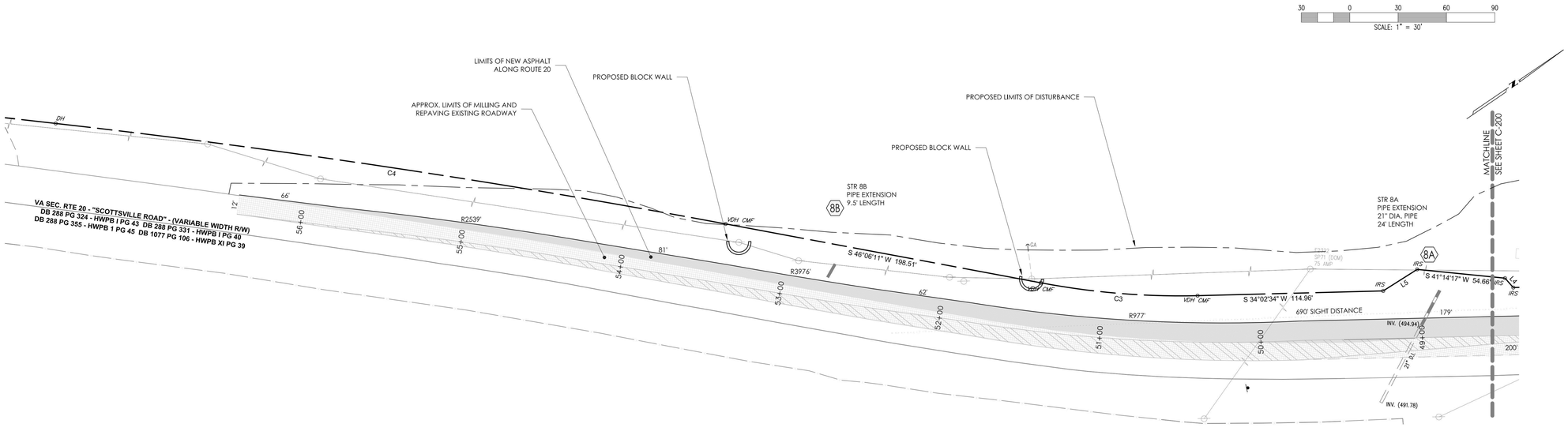
NO.	DESCRIPTION	DATE

SCALE: 1" = 30' SCALE

SHEET NAME:
CIVIL LAYOUT AND UTILITIES PLAN

SHEET NUMBER:
C-200

DATE: DATE
February 25, 2021



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LIC. NO. 37088
PROFESSIONAL ENGINEER

REVISION:

NO.	DESCRIPTION	DATE

SCALE: 1" = 30'
SCALE

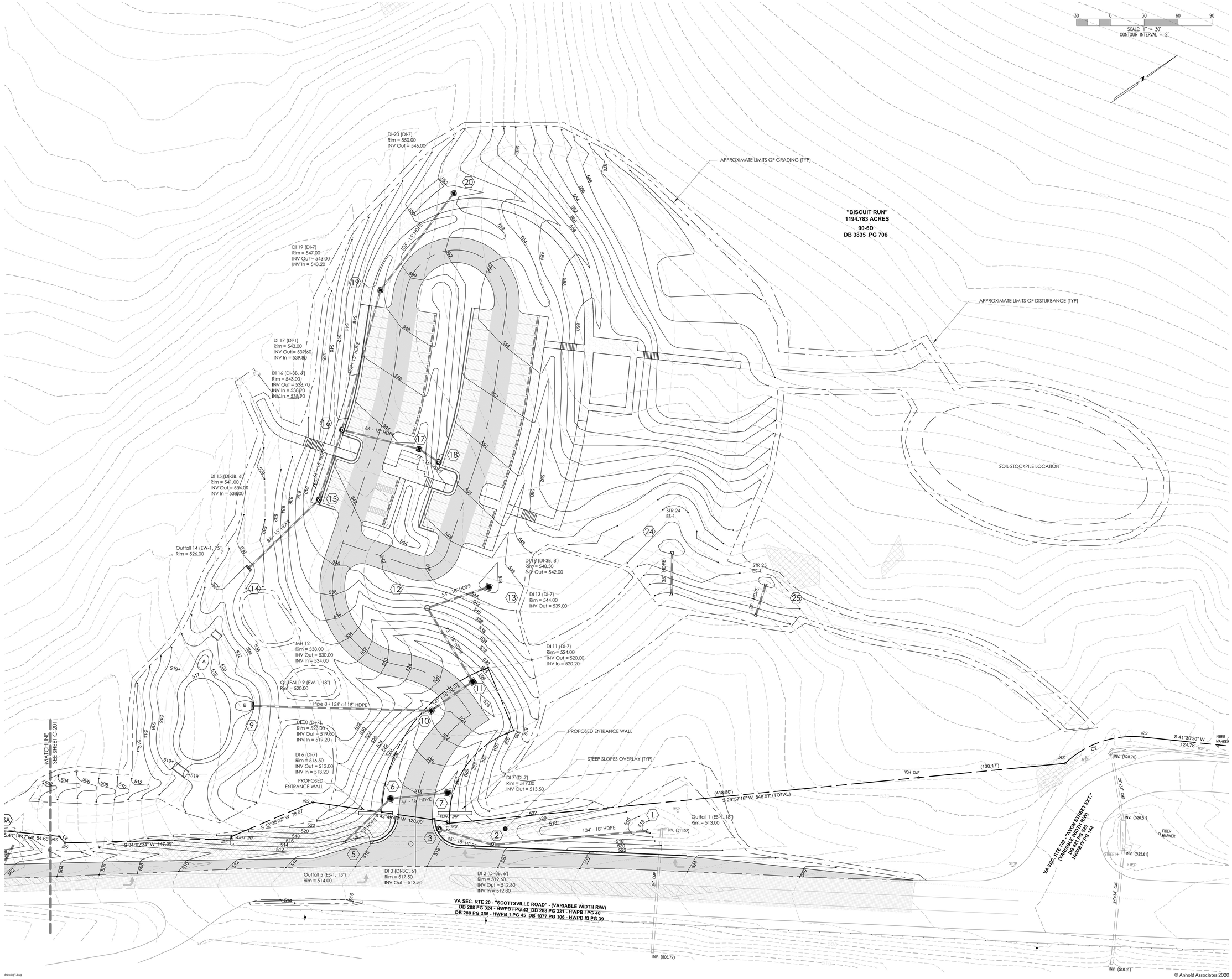
SHEET NAME:
CIVIL LAYOUT AND UTILITIES PLAN

SHEET NUMBER:
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DATE:
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DATE

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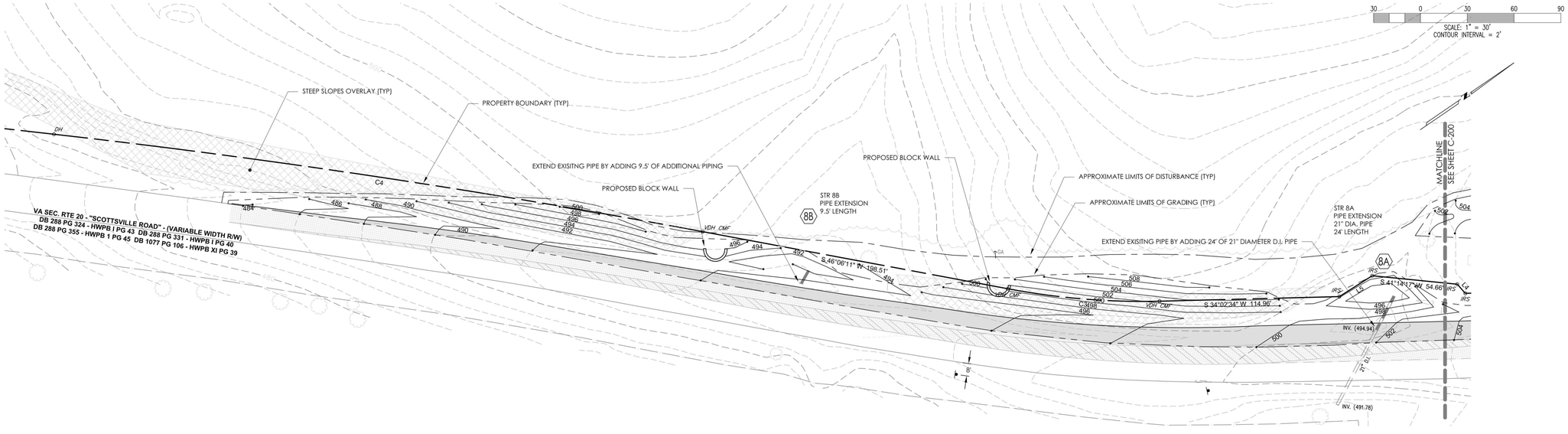
SCALE: 1" = 30' SCALE

SHEET NAME:
GRADING AND DRAINAGE PLAN

SHEET NUMBER:
C-210

DATE: DATE
February 25, 2021

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PROFESSIONAL ENGINEER

REVISION:

NO.	DESCRIPTION	DATE

SCALE: 1" = 30' SCALE

SHEET NAME:
GRADING AND DRAINAGE PLAN

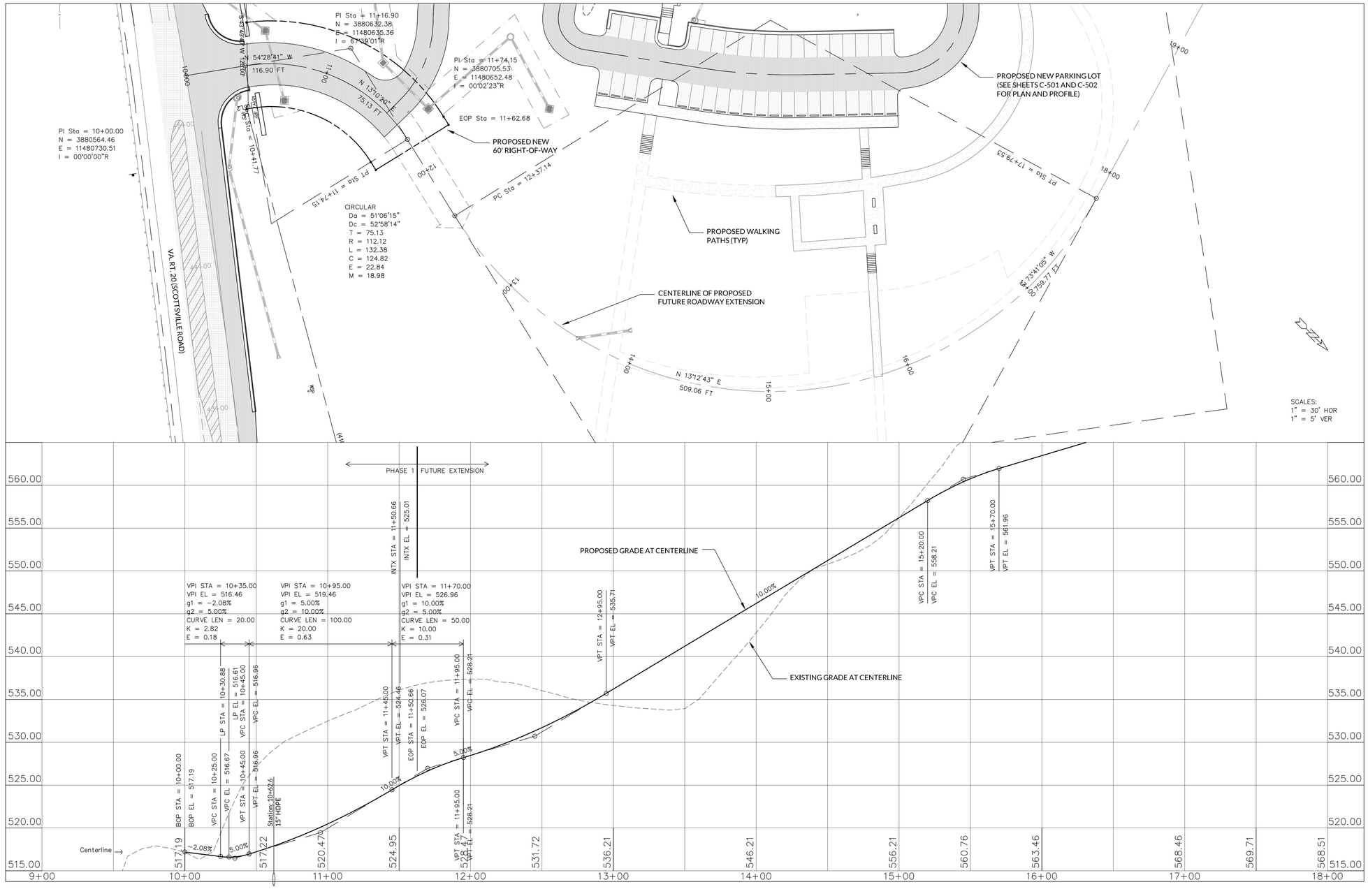
SHEET NUMBER:
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DATE: DATE
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PARK ACCESS ROAD : PHASE 1



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REVISION:

NO.	DESCRIPTION	DATE

SCALE: 1" = 30' SCALE

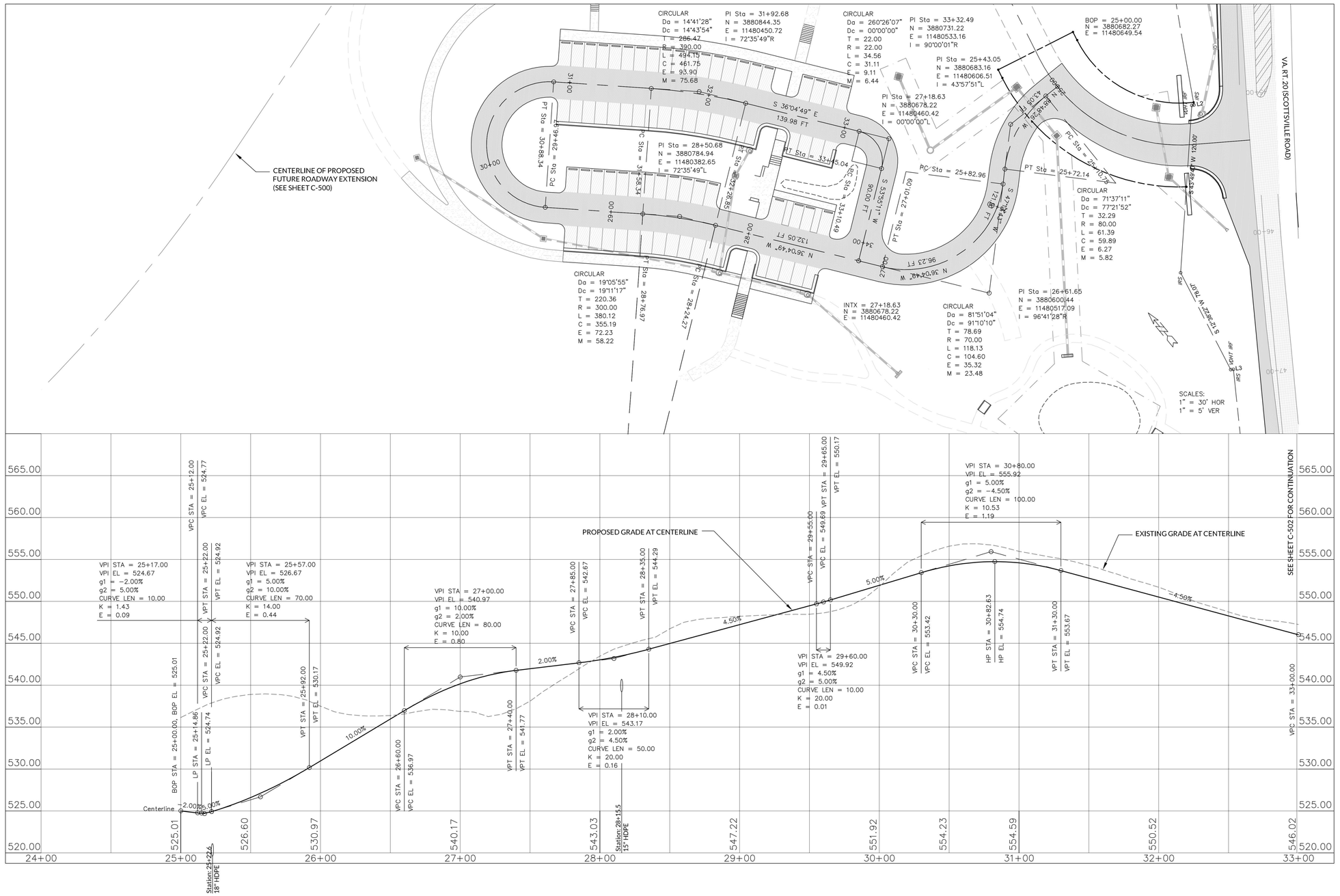
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ROAD PLAN & PROFILE

SHEET NUMBER:
C-500

DATE: February 25, 2021 DATE

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PARKING ACCESS ROAD (SHEET 1 OF 2)



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CLIENT

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CHARLOTTESVILLE, VA 22901
ADDRESS

BISCUIT RUN

PRELIMINARY

ANHOLD ASSOCIATES
LANDSCAPE ARCHITECTS + PLANNING

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COMMONWEALTH OF VIRGINIA
ERIC W. WOOLLEY
LIC. NO. 37088
PROFESSIONAL ENGINEER

REVISION:

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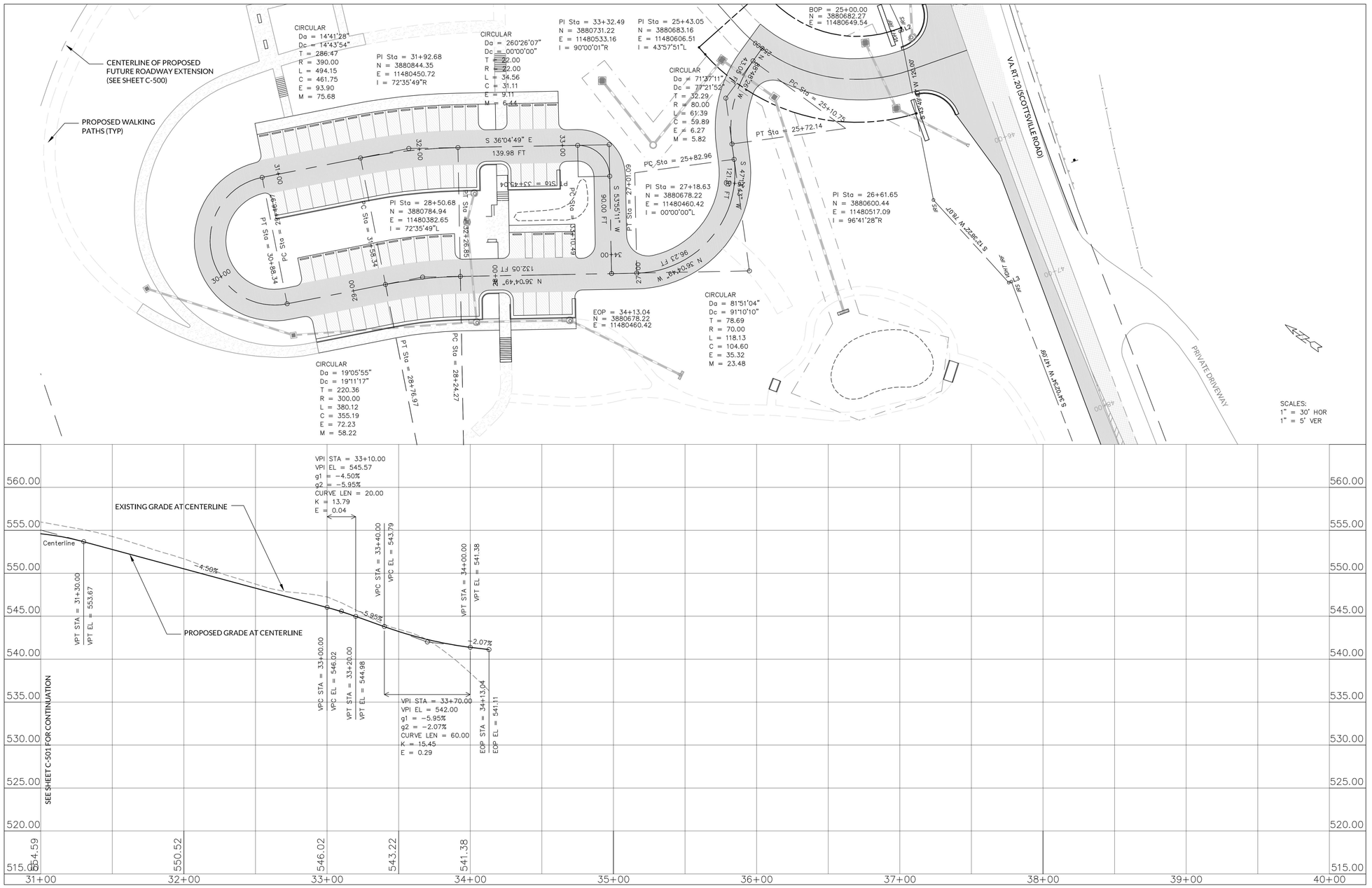
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DATE: February 25, 2021 DATE

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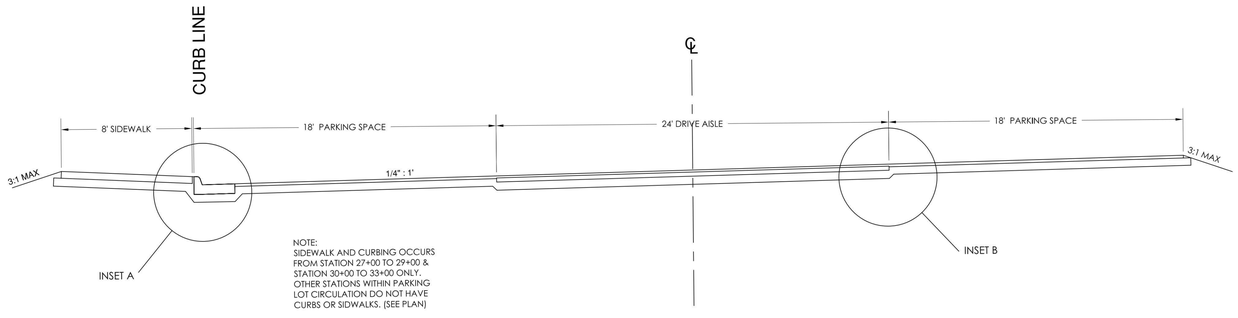
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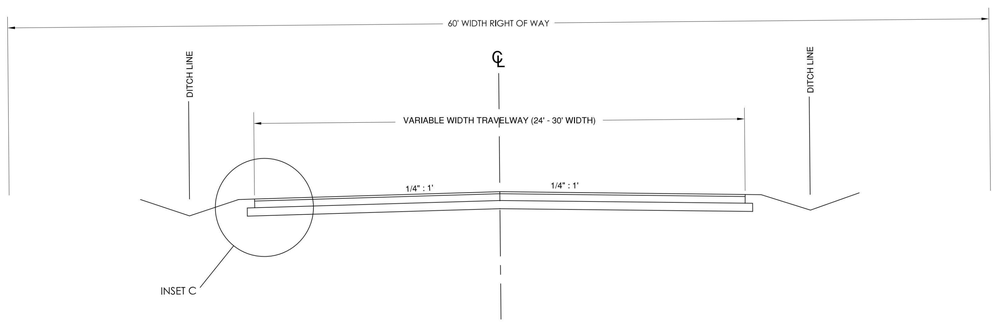
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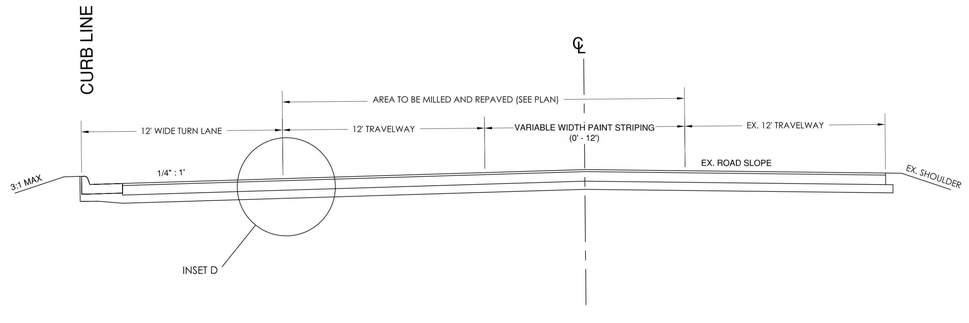
PARKING ACCESS ROAD

PARKING LOT SECTION (STA. 27+00 to 29+00 & 30+00 to 33+00)



PARK ROAD

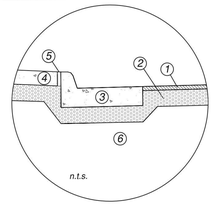
PARK ROAD ENTRANCE (STA. 10+00 to 11+50)



SCOTTSVILLE ROAD (ROUTE 20)

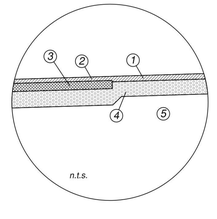
ROAD SECTION (STA. 42+94 to 44+95)

INSET A



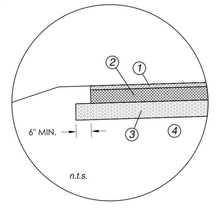
1. 2" ASPHALT CONCRETE SURFACE COARSE TYPE SM-9.5A
2. 6" AGGREGATE BASE MATERIAL TYPE 1 NO. 21-A
3. STANDARD CG-6 SEE TYPICAL DETAIL
4. CONCRETE SIDEWALK SEE TYPICAL DETAIL
5. EXPANSION JOINT 1/2" EXPANSION JOINT WITH JOINT SEAL AT SURFACE
6. SUBGRADE CBR 10 - COMPACT PER GEOTECHNICAL SPECIFICATIONS

INSET B



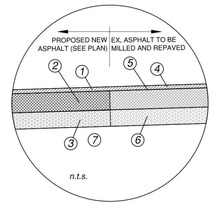
1. 2" ASPHALT CONCRETE SURFACE COARSE TYPE SM-9.5A
2. 1.5" ASPHALT CONCRETE SURFACE COARSE TYPE SM-9.5A
3. 3" ASPHALT CONCRETE BASE COARSE TYPE BM-25.0A
4. 6" AGGREGATE BASE MATERIAL TYPE 1 NO. 21-A
5. SUBGRADE CBR 10 - COMPACT PER GEOTECHNICAL SPECIFICATIONS

INSET C



1. 1.5" ASPHALT CONCRETE SURFACE COARSE TYPE SM-9.5A
2. 5" ASPHALT CONCRETE BASE COARSE TYPE BM-25.0A
3. 6" AGGREGATE BASE MATERIAL TYPE 1 NO. 21-A
4. SUBGRADE CBR 10 - COMPACT PER GEOTECHNICAL SPECIFICATIONS

INSET D



1. 1.5" ASPHALT CONCRETE SURFACE COARSE TYPE SM-9.5A
2. 7" ASPHALT CONCRETE BASE COARSE TYPE BM-25.0A
3. 6" AGGREGATE BASE MATERIAL TYPE 1 NO. 21-A
4. EX. 1.5" ASPHALT CONCRETE SURFACE COARSE TYPE SM-9.5A TO BE MILLED AND REPLACED (SEE PLAN)
5. TACK COAT OVER EX. CONCRETE BASE COURSE (TO REMAIN)
6. EX. AGGREGATE BASE MATERIAL (TO REMAIN)
7. SUBGRADE CBR 10 - COMPACT PER GEOTECHNICAL SPECIFICATIONS

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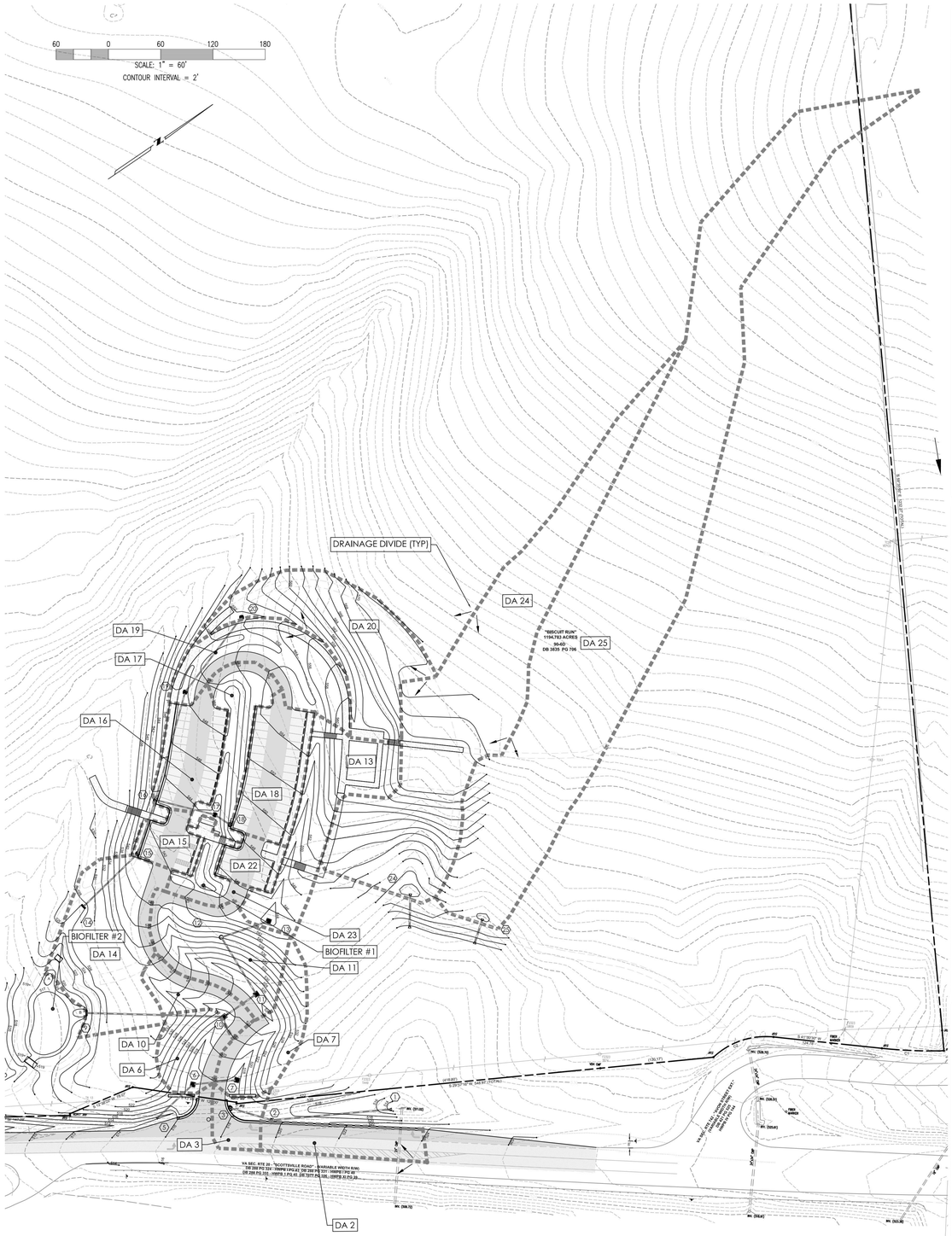
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ROADWAY DETAILS

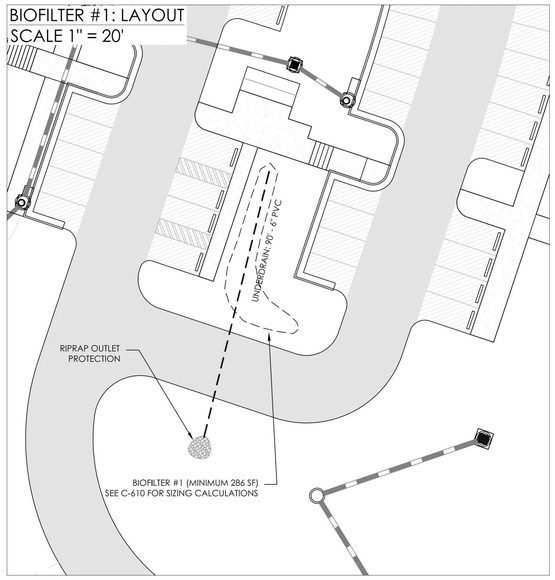
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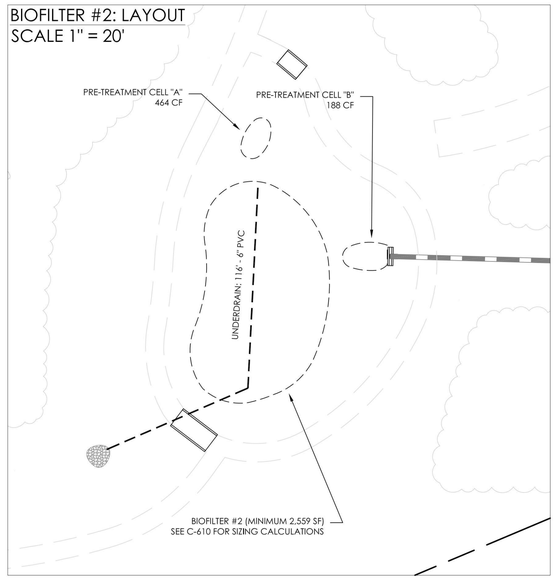
DATE: DATE
February 25, 2021

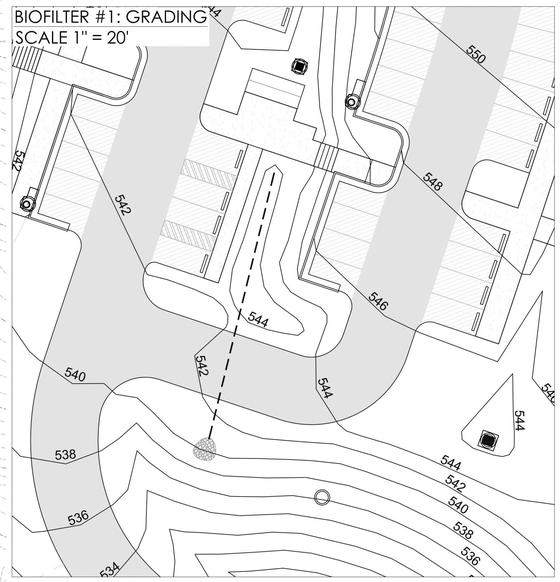
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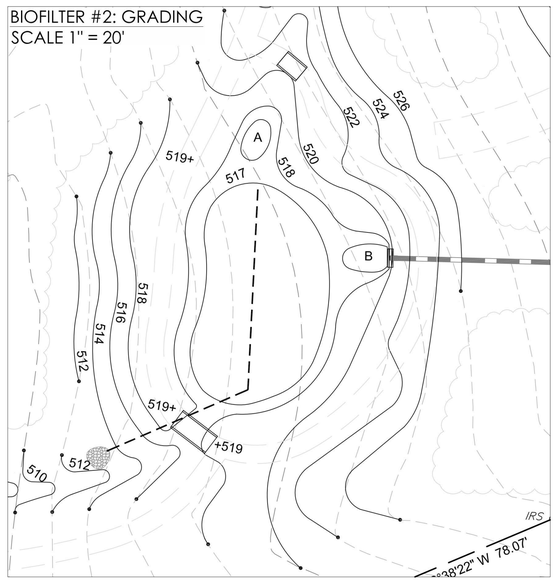
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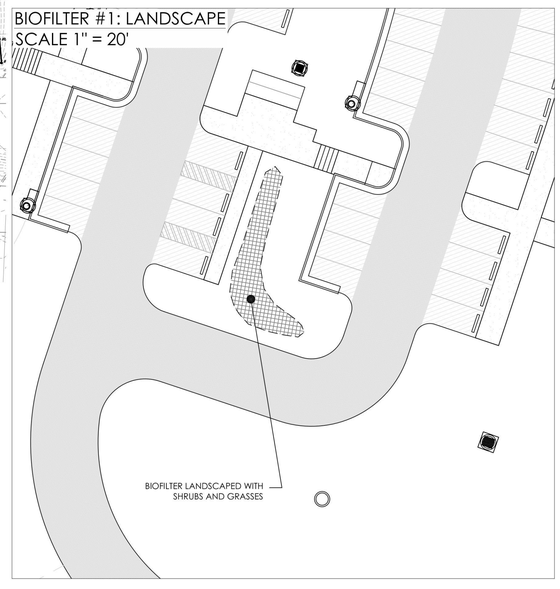


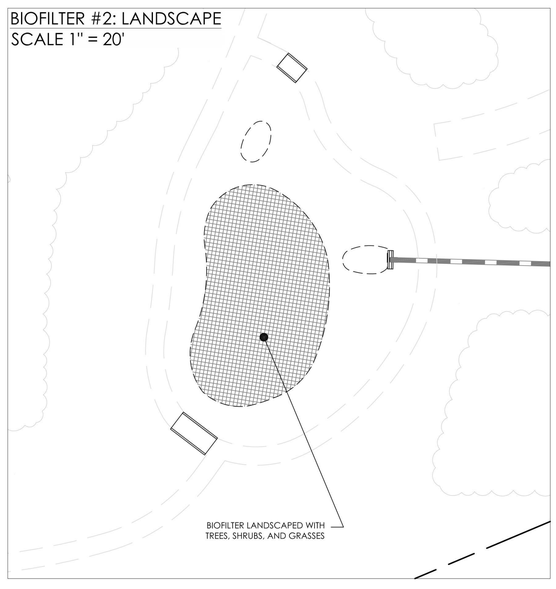












DRAINAGE AREA EXHIBIT - POST CONSTRUCTION

DA	AREA (SF)	AREA (AC)	IMPV (SF)	IMPV (AC)	% IMPV	PERV (SF)	PERV (AC)	% PERV	Weighted C	STR DESC.	DS STR	
2	6534	0.15	6534	0.15	100	0	0.00	0	0.90	DI-3B, 6'	STR 2	
3	3617	0.08	2497	0.06	69	1120	0.03	31	0.73	DI-3C, 6'	STR 3	
6	6308	0.14	902	0.02	14	5406	0.12	86	0.43	DI-7	STR 6	
7	8935	0.21	1513	0.03	17	7422	0.17	83	0.44	DI-7	STR 7	
10	4775	0.11	1859	0.04	39	2916	0.07	61	0.56	DI-7	STR 10	BIOFILTER-2
11	14110	0.32	3325	0.08	24	10785	0.25	76	0.48	DI-7	STR 11	
13	15438	0.35	1849	0.04	12	13589	0.31	88	0.42	DI-7	STR 13	
14	19550	0.45	1558	0.04	8	17991	0.41	92	0.39	OVERLAND	OVERLAND	
15	3921	0.09	3921	0.09	100	0	0.00	0	0.90	DI-3B, 6'	STR 15	
16	8310	0.19	8310	0.19	100	0	0.00	0	0.90	DI-3B, 6'	STR 16	
17	8321	0.19	1158	0.03	14	7164	0.16	86	0.43	DI-1	STR 17	
18	10486	0.24	10486	0.24	100	0	0.00	0	0.90	DI-3B, 8'	STR 18	
19	13642	0.31	4548	0.10	33	9094	0.21	67	0.53	DI-1	STR 19	
20	20317	0.47	891	0.02	4	19426	0.45	96	0.37	DI-1	STR 20	
22	3526	0.08	3316	0.08	94	210	0.00	6	0.87	BIOFILTER-1	BIO-1	BIOFILTER-1
23	4339	0.10	2143	0.05	49	2196	0.05	51	0.62	BIOFILTER-1	BIO-1	
24	52310	1.20	437	0.01	1	51873	1.19	99	0.35	PIPE ES	-	
25	100260	2.30	0	0.00	0	100260	2.30	100	0.35	PIPE ES	-	
	304701	6.99	55249	1.27		249452	5.73					

drawing1.dwg

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COMMONWEALTH OF VIRGINIA
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REVISION:

NO.	DESCRIPTION	DATE

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SHEET NAME:
STORMWATER MANAGEMENT PLANS

SHEET NUMBER:
C-600

DATE: February 25, 2021 DATE

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Virginia Runoff Reduction Method Worksheet

DEQ Virginia Runoff Reduction Method New Development Compliance Spreadsheet - Version 3.0

BMP Design Specifications List: **2013 Draft Stds & Specs**

Site Summary

Project Title: Biscuit Run Park
Date: 4424.9

Total Rainfall = 43 inches

Site Land Cover Summary

	A soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest/Open (acres)	0.00	0.00	0.00	0.00	0.00	0
Managed Turf (acres)	0.00	1.92	0.00	0.00	1.92	57
Impervious Cover (acres)	0.00	1.47	0.00	0.00	1.47	43
					3.39	100

Site Tv and Land Cover Nutrient Loads

Site Rv	0.53
Treatment Volume (ft³)	6,463
TP Load (lb/yr)	4.06
TN Load (lb/yr)	29.05
Total TP Load Reduction Required (lb/yr)	2.67

Site Compliance Summary

Total Runoff Volume Reduction (ft³)	3,874	
Total TP Load Reduction Achieved (lb/yr)	2.74	
Total TN Load Reduction Achieved (lb/yr)	20.00	
Remaining Post Development TP Load (lb/yr)	1.33	
Remaining TP Load Reduction (lb/yr) Required	**0.00**	**** TARGET TP REDUCTION EXCEEDED BY 0.06 LB/YEAR ****

Drainage Area Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
Forest/Open (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres)	0.06	1.86	0.00	0.00	0.06	1.92
Impervious Cover (acres)	0.13	0.87	0.00	0.00	0.00	1.00
Total Area (acres)	**0.19**	**2.73**	**0.00**	**0.00**	**0.00**	**2.92**

Drainage Area Compliance Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
TP Load Reduced (lb/yr)	0.28	2.46	0.00	0.00	0.00	2.74
TN Load Reduced (lb/yr)	2.03	17.97	0.00	0.00	0.00	20.00

Summary Print

Virginia Runoff Reduction Method Worksheet

Drainage Area A Summary

Land Cover Summary

	A Soils	B Soils	C Soils	D Soils	Total	% of Total
Forest/Open (acres)	0.00	0.00	0.00	0.00	0.00	0
Managed Turf (acres)	0.00	0.06	0.00	0.00	0.06	32
Impervious Cover (acres)	0.00	0.13	0.00	0.00	0.13	68
					0.19	

BMP Selections

Practice	Managed Turf Credit Area (acres)	Impervious Cover Credit Area (acres)	BMP Treatment Volume (ft³)	TP Load from Upstream Practices (lbs)	Untreated TP Load to Practice (lbs)	TP Removed (lb/yr)	TP Remaining (lb/yr)	Downstream Treatment to be Employed
6.b. Bioretention #2 or Micro-Bioretention #2 (Spec #9)	**0.05**	**0.13**	**486.61**	**0.00**	**0.30**	**0.27**	**0.03**	

Total Impervious Cover Treated (acres)	0.13
Total Turf Area Treated (acres)	0.06
Total TP Load Reduction Achieved in D.A. (lb/yr)	0.28
Total TN Load Reduction Achieved in D.A. (lb/yr)	2.03

Drainage Area B Summary

Land Cover Summary

	A Soils	B Soils	C Soils	D Soils	Total	% of Total
Forest/Open (acres)	0.00	0.00	0.00	0.00	0.00	0
Managed Turf (acres)	0.00	1.86	0.00	0.00	1.86	68
Impervious Cover (acres)	0.00	0.87	0.00	0.00	0.87	32
					2.73	

BMP Selections

Practice	Managed Turf Credit Area (acres)	Impervious Cover Credit Area (acres)	BMP Treatment Volume (ft³)	TP Load from Upstream Practices (lbs)	Untreated TP Load to Practice (lbs)	TP Removed (lb/yr)	TP Remaining (lb/yr)	Downstream Treatment to be Employed
6.b. Bioretention #2 or Micro-Bioretention #2 (Spec #9)	**1.82**	**0.9**	**4,424.97**	**0.00**	**2.78**	**2.50**	**0.28**	

Total Impervious Cover Treated (acres)	0.87
Total Turf Area Treated (acres)	1.86
Total TP Load Reduction Achieved in D.A. (lb/yr)	2.46
Total TN Load Reduction Achieved in D.A. (lb/yr)	17.97

Summary Print

Virginia Runoff Reduction Method Worksheet

Runoff Volume and CN Calculations

	1-year storm	2-year storm	10-year storm
Target Rainfall Event (in)	3.03	3.67	5.55

Drainage Areas	RV & CN	Drainage Area A	Drainage Area B	Drainage Area C	Drainage Area D	Drainage Area E
CN		86	73	0	0	0
RR (ft³)		393	1,480	0	0	0
1-year return period	**RV wo RR [acre-in]**	1.49	0.88	0.00	0.00	0.00
	RV w RR [acre-in]	1.12	0.52	0.00	0.00	0.00
	CN adjusted	77	61	0	0	0
2-year return period	**RV wo RR [acre-in]**	2.25	1.30	0.00	0.00	0.00
	RV w RR [acre-in]	1.88	0.94	0.00	0.00	0.00
	CN adjusted	79	67	0	0	0
10-year return period	**RV wo RR [acre-in]**	5.98	2.72	0.00	0.00	0.00
	RV w RR [acre-in]	5.41	2.17	0.00	0.00	0.00
	CN adjusted	90	69	0	0	0

Summary Print

VRRM SPREADSHEET SUMMARY
N.T.S.

LEVEL 2 BIOFILTER #1

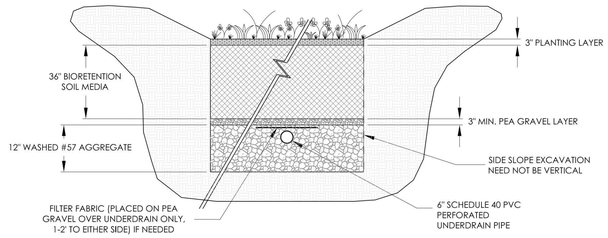
CONTRIBUTING DRAINAGE AREA (ACRES)	0.18
SIZING (FT^2):	
DESIGN SURFACE AREA	286
STORAGE DEPTH (FT):	
A: MEDIA DEPTH	3
B: GRAVEL DEPTH	1
C: SURFACE PONDING	1
EQUIVALENT TOTAL DESIGN STORAGE DEPTH	2.15
ELEVATIONS (FT):	
SOIL MEDIA - TOP	544.0
SOIL MEDIA - BOTTOM	541.0
GRAVEL LAYER - TOP	541.0
GRAVEL LAYER - BOTTOM	540.0
TARGET REQUIRED TREATMENT VOLUME Tv (FT^3)	492

LEVEL 2 BIOFILTER #2

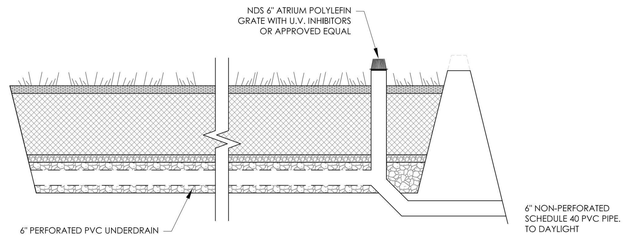
CONTRIBUTING DRAINAGE AREA (ACRES)	2.73
SIZING (FT^2):	
DESIGN SURFACE AREA	2,559
STORAGE DEPTH (FT):	
A: MEDIA DEPTH	3
B: GRAVEL DEPTH	1
C: SURFACE PONDING	1
EQUIVALENT TOTAL DESIGN STORAGE DEPTH	2.15
ELEVATIONS (FT):	
SOIL MEDIA - TOP	524.0
SOIL MEDIA - BOTTOM	521.0
GRAVEL LAYER - TOP	521.0
GRAVEL LAYER - BOTTOM	520.0
TARGET REQUIRED TREATMENT VOLUME Tv (FT^3)	4,351

10-YEAR STORMWATER OUTFALL VELOCITIES

STRUCTURE 1 OUTFALL (CFS)	3.50
STRUCTURE 5 OUTFALL (CFS)	4.19
STRUCTURE 9 OUTFALL (CFS)	4.08
STRUCTURE 14 OUTFALL (CFS)	13.42



TYPICAL BIOFILTER CROSS-SECTION
N.T.S.



TYPICAL BIOFILTER PROFILE DETAIL
N.T.S.

Maintenance and Inspection Schedule:

1. The rain garden side slopes, and embankment, shall be mowed at least twice a year. Bare areas shall be reseeded and woody growth removed.
2. Debris and trash shall be removed at least once every two months and at times when accumulation prevents the structure from properly functioning.
3. Sedimentation deposition shall be continually monitored in the forebay and the basin. Any accumulation of sediment shall be removed. Disposal of sediment shall comply with Virginia Department of Health and State Regulations.
4. Inspections of the basin shall occur at least once a year for the following items: Visual Settlement, Cracking, Misalignment, Erosion, Adequate Groundcover, Trees or Shrubs, Rodent Holes, Seepage, Debris, Undercutting, Scour, and General Functionality. Any problems shall be repaired immediately.

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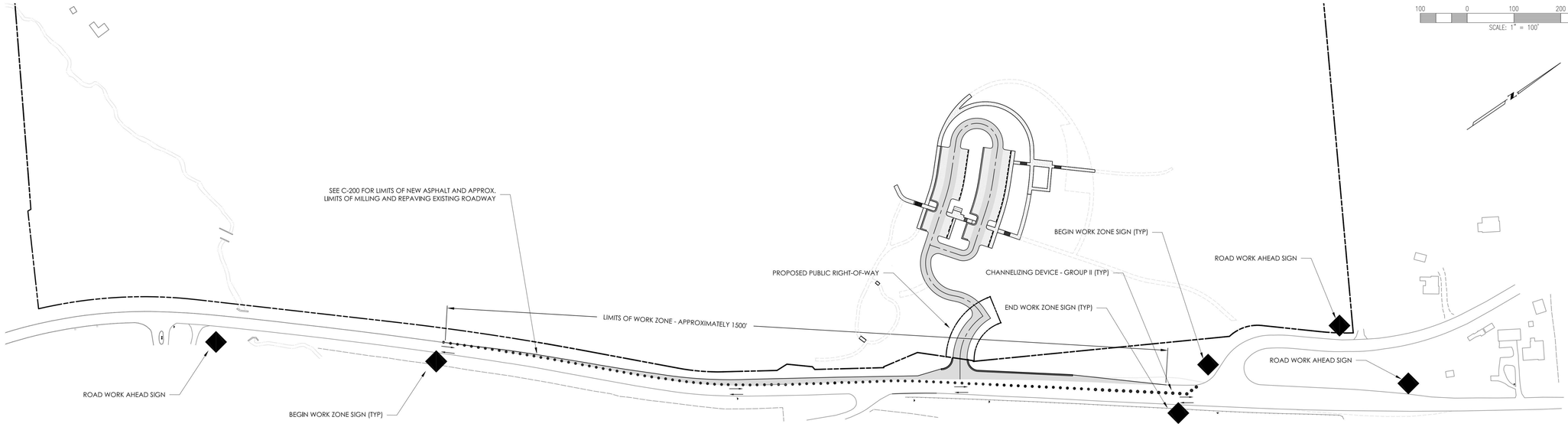
SHEET NAME:
STORMWATER MANAGEMENT DETAILS

SHEET NUMBER:
C-610

DATE: DATE
February 25, 2021

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GENERAL:

1. THE PROJECT CONSISTS OF ROAD IMPROVEMENTS WITHIN THE EXISTING RIGHT-OF-WAY ALONG SCOTTSVILLE ROAD (STATE ROUTE 20). THE PROJECT INCLUDES ADDING A NEW TURN LANE AND TAPER IN THE SOUTHBOUND DIRECTION ALONG ROUTE 20 INTO THE PROPOSED PARK ENTRANCE ROAD. A LEFT TURN LANE AND TAPER ARE PROPOSED FROM THE NORTHBOUND DIRECTION OF ROUTE 20. ADDITIONAL PAVEMENT IS PROPOSED TO ACCOMODATE THE NEW TURN LANES. THE EXPANSION OF THE ROADWAY WILL OCCUR NEXT TO THE SOUTHBOUND LANE OF ROUTE 20.

2. THE PROJECT LENGTH IS APPROXIMATELY 1,550 FEET ALONG ROUTE 20. THE APPROXIMATE NEW ASPHALT PROPOSED ALONG ROUTE 20 IS 14,700 SF. THE WIDTH OF THE WORK ZONE VARIES BETWEEN 12' AND 29'. APPROXIMATELY 25,000 SF OF EXISTING ROADWAY IS PROPOSED TO BE MILLED AND REPAVED ONCE THE ROADWAY IS EXPANDED.

3. THE PURPOSE OF THIS PROJECT IS TO CREATE A NEW PARK ENTRANCE ROAD. THE CONSTRUCTION CONSISTS OF FILL EXCAVATION, CONSTRUCTING A NEW ENTRANCE ROAD, ADDING TURN LANES TO EACH DIRECTION OF TRAVEL, AND INSTALLATION OF PAVEMENT MARKINGS.

4. TRAFFIC ALONG ROUTE 20 CONSISTS PRIMARILY OF COMMUTERS AND LOCAL RESIDENTS.

5. THE EXISTING POSTED SPEED LIMIT FOR ROUTE 20 (SCOTTSVILLE ROAD) IS 55 MPH.ALL EXISTING SPEED LIMITS ARE EXPECTED TO BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.

TEMPORARY TRAFFIC CONTROL (TTC) / MAINTENANCE OF TRAFFIC (MOT):

1. THE MAJOR CONSTRUCTION PHASES WILL TAKE PLACE ADJACENT TO THE EXISTING ROAD SECTION. LANE CLOSURES DURING CONSTRUCTION WILL AFFECT EXISTING TRAFFIC FLOW ALONG ROUTE 20 DURING CONSTRUCTION. DRUMS (GROUP II) WILL BE UTILIZED FOR CHANNELING TRAFFIC DURING CONSTRUCTION AND "LANE CLOSED" SIGNS WILL BE USED ALONG ROUTE 20.

2. SHOULDER CLOSURES AND FLAGGING OPERATIONS ARE ANTICIPATED FOR THIS PROJECT AND SHALL BE PROVIDED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION, (SEPTEMBER 1, 2019 REVISION). THE FOLLOWING TEMPORARY TRAFFIC MEASURES SHALL BE USED:
   - A. TTC-4.1 - STATIONARY OPERATION ON A SHOULDER
   - B. TTC-5.1 - SHOULDER OPERATION WITH MINOR ENCROACHMENT
   - C. TTC-53.0 - SIGNING FOR PROJECT LIMITS

3. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

PUBLIC COMMUNICATION PLAN:

1. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE USED TO NOTIFY THE TRAVELING PUBLIC OF ANY SUCH MAJOR TRAFFIC CHANGES 72 HOURS IN ADVANCE OF THE CHANGE.

TRANSPORTATION OPERATION PLAN:

1. THE CONTRACTOR SHALL INFORM VDOT WHEN A LANE CLOSURE IS PLANNED. THE CONTRACTOR SHALL NOTIFY THE "REGIONAL TRAFFIC OPERATIONS CENTER" (RTOC) WHEN THE CLOSURE IS IMPLEMENTED, AND AGAIN WHEN IT IS REMOVED. THE RTOC WILL IN TURN PLACE THE INFORMATION INTO THE "511 VIRGINIA" TRAFFIC ALERT SYSTEM (A SERVICE OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEM).

2. IN CASE OF EMERGENCY, CALL 911. THE FOLLOWING IS A LIST OF LOCAL NON-EMERGENCY NUMBERS:
   COUNTY FIRE: 434-296-5833
   COUNTY SHERIFF: 434-296-5807
   STATE POLICE: 434-293-3223
   PROJECT PERSONNEL: TBD
   ENGINEER CONTACT: ERIC WOOLLEY, WOOLLEY ENGINEERING: 434-973-0045
   INSPECTOR: TBD
   DEVELOPER CONTACT: COUNTY OF ALBEMARLE 434-296-5803
   REGIONAL TRAFFIC OPERATIONS CENTER, SHIFT SUPERVISOR: 540-332-9500
   VDOT DISTRICT PUBLIC AFFAIRS OFFICER: LOU HATTER, 540-727-3201

3. ANY TRAFFIC INCIDENT (IF APPLICABLE) THAT OCCURS DURING THE LIFE OF THIS PROJECT WILL BE DISCUSSED BY THE CONTRACTOR, AND THE ENGINEER OF RECORD TO DETERMINE WHETHER ANY CHANGES NEED TO BE MADE TO THE TRAFFIC CONTROL ON THE PROJECT.

TRAFFIC MAINTENANCE PLAN (TMP) GENERAL NOTES:

1. ANY REQUIRED LANE CLOSURES MUST BE APPROVED IN ADVANCE BY VDOT.

2. LANE CLOSURES ARE ONLY PERMITTED ON ROUTE 20 (SCOTTSVILLE ROAD) AND BETWEEN THE HOURS OF 9:00 AM TO 4:00 PM AND 7:00 PM TO 5:30 AM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

3. ALL AREAS EXCAVATED DEEPER THAN 2" (TWO INCHES) BELOW EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE, AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACK FILLED TO FORM AN APPROXIMATE 6:1 WEDGE AGAINST THE PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. ALL COST PLACING, MAINTAINING, AND REMOVING THE 6:1 WEDGE SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

4. TRAFFIC SHALL NOT BE STOPPED ON ROUTE 20 (SCOTTSVILLE ROAD) FOR LONGER THAN FIVE MINUTES AT ANY TIME UNLESS OTHERWISE DIRECTED BY THE ENGINEER. TRAFFIC SHALL NOT BE DETAINED ON INNOVATION DRIVE AT ANYTIME, UNLESS DIRECTED BY VDOT.

5. LANE CLOSURES WILL NOT BE PERMITTED ON HOLIDAYS, WEEKENDS, OR ON FRIDAY-SATURDAY-SUNDAY-MONDAY SURROUNDING HOLIDAY WEEKENDS UNLESS OTHERWISE APPROVED IN ADVANCE BY VDOT.

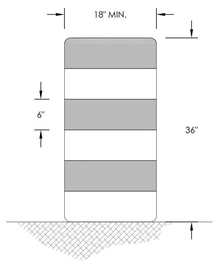
6. ANY CONTRACT ITEM(S) NOT SPECIFICALLY NOTED IN THE MAINTENANCE OF TRAFFIC MAY BE SCHEDULED FOR CONSTRUCTION AT THE CONTRACTOR'S OPTION, AS APPROVED BY THE ENGINEER.

7. VEHICULAR AND PEDESTRIAN ACCESS TO ADJACENT PROPERTIES AND CONNECTING STREETS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. PROPERTY OWNERS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO ANY ACTIVITIES WHICH WOULD IMPEDE ACCESS TO THEIR PROPERTY. IN ALL CASES IN WHICH EXISTING OR ESTABLISHED TRAFFIC PATTERNS WILL BE DISRUPTED, THE CONTRACTOR WILL NOTIFY ALL AFFECTED RESIDENTS AND/OR BUSINESSES A MINIMUM OF 48 HOURS IN ADVANCE OF THE ANTICIPATED DISRUPTION BY DISTRIBUTING DOOR-TO-DOOR NOTICES. NOTICES SHALL INCLUDE DETAILED DESCRIPTIONS OF THE CHANGES TO THE EXISTING TRAFFIC. FOR ALL TRAFFIC ENTERING AND EXITING THE ADJACENT PROPERTIES DURING CONSTRUCTION. A COPY OF THE NOTICE SHALL BE FORWARDED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE BEGINNING OF WORK.

8. ALL TRAFFIC CONTROL SHALL BE SET UP AND SPACED ACCORDING TO THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION, (SEPTEMBER 1, 2019 REVISION)

9. CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL AS DIRECTED BY THE VDOT AND/OR THE ENGINEER SHOULD FIELD CONDITIONS WARRANT.

10. CONTRACTOR MAY REDUCE LANE WIDTHS TO 11' MINIMUM DURING CONSTRUCTION. ANY TEMPORARY PAVEMENT MARKINGS THAT ARE REQUIRED ARE THE RESPONSIBILITY OF THE CONTRACTOR.



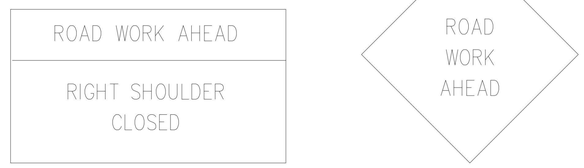
CHANNELIZING DEVICE DETAIL - DRUM
N.T.S.

TEMPORARY TRAFFIC CONTROL IMPLEMENTATION:
PHASE 1 CONSTRUCTION CONSISTS OF NEW ENTRANCE CONSTRUCTION, NEW PARKING LOT, THE INSTALLATION CURB AND GUTTER, DRAINAGE STRUCTURES, CURB RAMPS, AND PERFORMING GRADING OPERATIONS. THE MAJORITY OF CONSTRUCTION ACTIVITIES SHALL TAKE PLACE BEYOND THE EXISTING ROADWAY.

THE CLEAR ZONE FOR THE WORK AREA ARE AS FOLLOWS:
ROUTE 20 (SCOTTSVILLE ROAD) - 25 FEET
THE CLEAR ZONES WERE DETERMINED FROM FIGURE 2 - CLEAR ZONE AND DROP-OFF REQUIREMENTS, FOUND IN APPENDIX A, SHEET A-4 OF THE LATEST VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION, (SEPTEMBER 1, 2019 REVISION).
WHEN CONSTRUCTION OCCURS WITHIN THE CLEAR ZONE, ALONG ROUTE 20, FOR INSTALLATION OF PAVEMENT TIE-INS, CURB RAMPS, CURB AND GUTTER, AND INTERSECTION SIGNING AND PAVEMENT MARKINGS, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE TO TTC-67.0 DURING THE ALLOWABLE WORKING HOURS, AS PRESCRIBED IN THE GENERAL NOTES, TTC/MOT NOTES, AND THROUGH THE USE OF GROUP II CHANNELIZING DEVICES AND PROPER SIGNAGE.

FOR THE INSTALLATION OF PAVEMENT MARKINGS ALONG ROUTE 20 (SCOTTSVILLE ROAD), TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE TO VDOT STANDARDS DURING THE ALLOWABLE WORKING HOURS, AS PRESCRIBED IN THE GENERAL NOTES, TTC/MOT NOTES, AND THROUGH THE USE OF GROUP II CHANNELIZING DEVICES AND PROPER SIGNAGE.

WHEN CONSTRUCTION OCCURS OUTSIDE OF THE CLEAR ZONE ALONG ROUTE 20, TRAFFIC SHALL BE MAINTAINED ACCORDING TTC-4.1 OR TTC-5.1, AS PRESCRIBED IN THE GENERAL NOTES, TTC/MOT NOTES, AND THROUGH THE USE OF GROUP II CHANNELIZING DEVICES AND PROPER SIGNAGE.



TRAFFIC MANAGEMENT SIGNAGE
N.T.S.

SIGNAGE NOTES:
1. ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING AND ANY REVISION THERE TO:
   - A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   - B. THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   - C. THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
   - D. THE 2000 INTERNATIONAL FIRE CODE.
2. SIGN LOCATIONS ARE APPROXIMATE AND ARE TO BE MODIFIED IN THE FIELD TO AVOID CONFLICT WITH UNDERGROUND UTILITIES OR OTHER CONSTRUCTIONS, AND TO COMPLY WITH STANDARDS REFERENCED IN NOTE 1 ABOVE.
3. ALL SIGNS AND PAVEMENT MARKINGS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH VDOT STANDARDS AND SPECS.

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ALBEMARLE COUNTY
CLIENT

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CHARLOTTESVILLE, VA 22901
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WOOLLEY ENGINEERING
CONSULTING CIVIL ENGINEERS
210 5th Street NE
Charlottesville, VA 22902
434.973.0045
woolley-eng.com

COMMONWEALTH OF VIRGINIA
ERIC W. WOOLLEY
LIC. NO. 37088
PROFESSIONAL ENGINEER

REVISION:

NO.	DESCRIPTION	DATE

SCALE: AS NOTED SCALE

SHEET NAME:
MAINTENANCE OF TRAFFIC PLAN

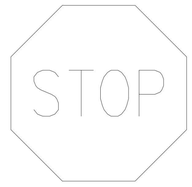
SHEET NUMBER:
C-700

DATE: January 29, 2021 DATE

SIGNAGE NOTES:
1. ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING AND ANY REVISION THERE TO:
   A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   B. THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   C. THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
   D. THE 2000 INTERNATIONAL FIRE CODE.

2. SIGN LOCATIONS ARE APPROXIMATE AND ARE TO BE MODIFIED IN THE FIELD TO AVOID CONFLICT WITH UNDERGROUND UTILITIES OR OTHER CONSTRUCTIONS, AND TO COMPLY WITH STANDARDS REFERENCED IN NOTE 1 ABOVE.

3. ALL SIGNS AND PAVEMENT MARKINGS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH VDOT STANDARDS AND SPECS.



STD R1-1

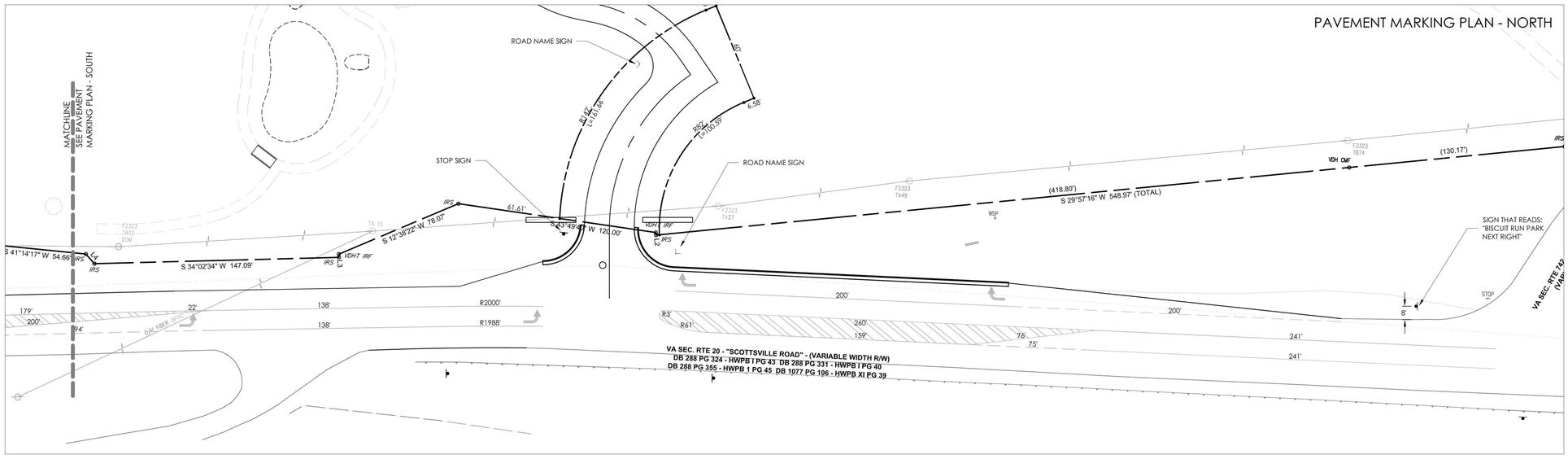


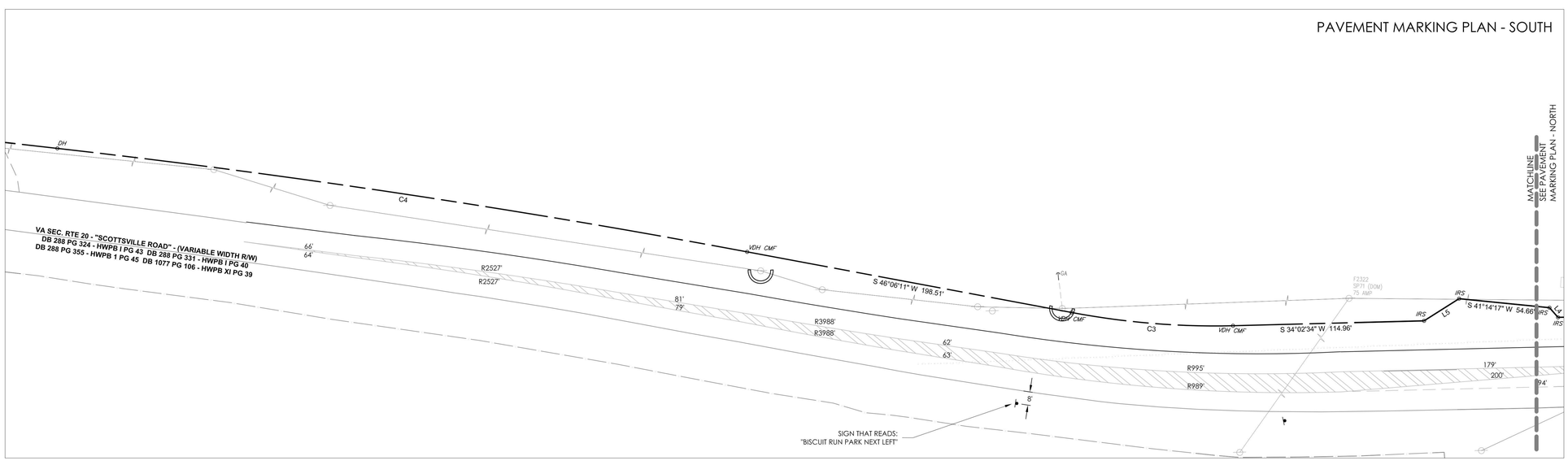
STD I-V13L



STD I-V13L

PROPOSED SIGNAGE
N.T.S.





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COMMONWEALTH OF VIRGINIA
ERIC W. WOOLLEY
LIC. NO. 37088
PROFESSIONAL ENGINEER

REVISION:

NO.	DESCRIPTION	DATE

SCALE: 1" = 30'
SCALE

SHEET NAME:
MAINTENANCE OF TRAFFIC

SHEET NUMBER:
C-701

DATE:
February 25, 2021
DATE

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Typical Traffic Control
Stationary Operation on a Shoulder
(Figure TTC-4.1)
NOTES

Standard

1. **For long-term stationary work (more than 3 days) on divided highways having a median wider than 8', sign assemblies on both sides of the roadway shall be required as shown (ROAD WORK AHEAD (W20-1), RIGHT SHOULDER CLOSED AHEAD (W21-5bR), RIGHT SHOULDER CLOSED (W21-5aR)[1]), even though only one shoulder is being closed. For operations less than 3 days in duration, sign assemblies will only be required on the side where the shoulder is being closed and a RIGHT SHOULDER CLOSED (W21-5aR)[1] sign shall be added to that side.**

Guidance

2. *Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.*

Option:

3. The SHOULDER WORK (W21-5) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
4. For short duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity amber rotating, flashing, or[2] oscillating lights is used.

Standard:

5. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or[2] oscillating lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, or[2] oscillating, lights.**
6. **Taper length (L) and channelizing device spacing shall be at the following:**

Taper Length (L)				
Speed Limit (mph)	Lane Width (Feet)			
	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
Minimum taper lengths for Limited Access highways shall be 1000 feet.				
Shoulder Taper = ½ L Minimum				

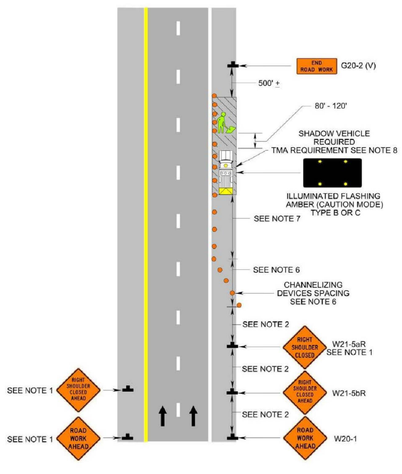
Channelizing Device Spacing		
Location	Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'
Construction Access*	80'	120'
* Spacing may be increased to this distance, but shall not exceed one access per ¼ mile.		

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

7. **The buffer space length shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.**
8. **A truck-mounted attenuator (TMA) shall be used on the shadow vehicle on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph for operations with a duration greater than 60 minutes.**
9. **When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.**

1: Revision 1 – 4/1/2015

Stationary Operation on a Shoulder
(Figure TTC-4.1)



Typical Traffic Control
Shoulder Operation with Minor Encroachment
(Figure TTC-5.1)
NOTES

Standard

1. **For required sign assemblies for multi-lane roadways see Note 1, TTC-4.[1]**

Guidance

2. *Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.*
3. *When work takes up part of a lane on a high volume roadway; vehicular traffic volumes, vehicle mix, speed and capacity should be analyzed to determine whether the affected lane should be closed. Unless the lane encroachment analysis permits a remaining lane width of 10 feet, the lane should be closed. If the closure operation is on a Limited Access highway, the minimum lane width is 11 feet.*

Option:

4. The ROAD WORK AHEAD (W20-1) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.

Standard:

5. **A shadow vehicle with either an arrow board operating in the caution mode, or at least one high-intensity amber rotating, flashing, or[2] oscillating light shall be parked 80' - 120' in advance of the first work crew.**
6. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or[2] oscillating lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, or[2] oscillating lights.**
7. **Taper length (L) and channelizing device spacing shall be at the following:**

Taper Length (L)				
Speed Limit (mph)	Lane Width (Feet)			
	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
Minimum taper lengths for Limited Access highways shall be 1000 feet.				
Shoulder Taper = ½ L Minimum				

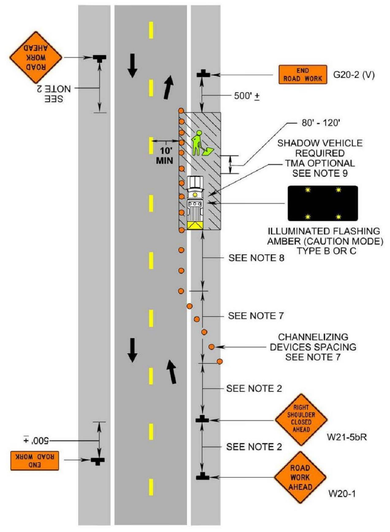
Channelizing Device Spacing		
Location	Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'
Construction Access*	80'	120'
* Spacing may be increased to this distance, but shall not exceed one access per ¼ mile.		

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

8. **The buffer space length shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.**
9. **A truck-mounted attenuator (TMA) shall be used on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph.**
10. **When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.**

1: Revision 1 – 4/1/2015

Shoulder Operation with Minor Encroachment
(Figure TTC-5.1)



Typical Traffic Control
Signing for Speed Limit and Fine Signs in Work Zones
(Figure TTC-52.1)
NOTES

Standard:

1. **Prior to the implementation of this Typical Traffic Control layout, the Regional Traffic Engineer must approve a speed reduction[1] in a work zone after performing and evaluating[1] a Traffic Engineering investigation[1] per Traffic Engineering Division Memorandum TE-350.**

Option:

2. This layout depicts signing requirements for speed limits and increased fines in work zones. Additional signing and traffic control devices may be required based on the operation being performed.

Guidance:

3. *Sign spacing distance should be 1300'-1500' for Limited Access highways, and on all other roadways 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.*

Standard:

4. **On divided highways having a median wider than 8', right and left sign assemblies shall be required.**
5. **The use of the WORK ZONE $500 MAX FOR EXCEEDING SPEED LIMIT WHEN FLASHING (R2-V1)[1] sign shall be approved by the Regional Traffic Engineer prior to installation. Type B warning lights shall be installed above the R2-V1 sign and controlled remotely with activation only when workers are present in the work zone.[1] If the R2-V1 sign is used the WORK ZONE (G20-5ap) plaque shall be installed above the SPEED LIMIT (R2-1) sign and the[1] FINES HIGHER (R2-6P) plaque below.**

Option:

6. For Secondary and Minor Primary road systems, a 66" x 42" R2-V1[1] sign may be used.

Standard:

7. **If the entire project is signed for a reduced speed, and an original speed limit sign is not within 1000 feet of the END ROAD WORK (G20-2 (V)) sign, signs depicting the original speed limit shall be erected 500'± past the END ROAD WORK sign. On secondary roads without posted speed limits, an END WORK ZONE SPEED LIMIT (R2-12) sign shall be used in place of erecting an R2-1 sign. If only part of the project is signed for a reduced speed, then the original speed limit shall be posted 500'± past the work area.**

Option:

8. Experience has shown that compliance to the reduced speed signing is greater if these signs are placed as close to the work as possible, as opposed to placement prior to the advance warning signs (ROAD WORK AHEAD, etc.).

Standard:

9. **The Reduced Speed Limit Ahead (W3-5) graphic signs are only required if the speed limit is being reduced in the work zone.**

Option:

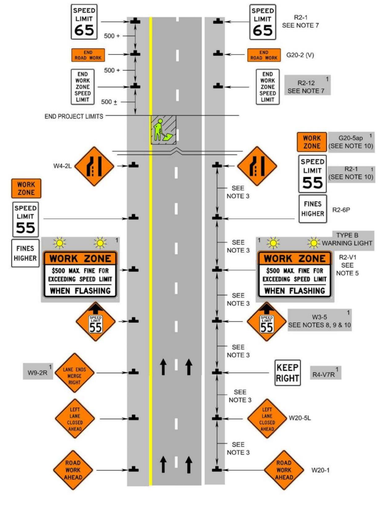
10. During short-term (less than 72 hours) operations, if the speed limit is reduced, the Reduced Speed Limit Ahead graphic signs and the SPEED LIMIT signs may be mounted on a temporary (portable) sign support. The use of the WORK ZONE sign is not required.[1]

Guidance:

11. *The speed limit should be stepped down in advance of the location requiring the lowest speed in ten-mile per hour increments. Additional TTC warning devices should be used.*

1: Revision 1 – 4/1/2015

Signing for Speed Limit and Fine Signs in Work Zones
(Figure TTC-52.1)



Typical Traffic Control
Signing for Project Limits
(Figure TTC-53.0)
NOTES

Support:

1. This layout depicts signing requirements for notifying motorist when they are entering and exiting a potential construction/maintenance area with a duration equal to or greater than 60 days.

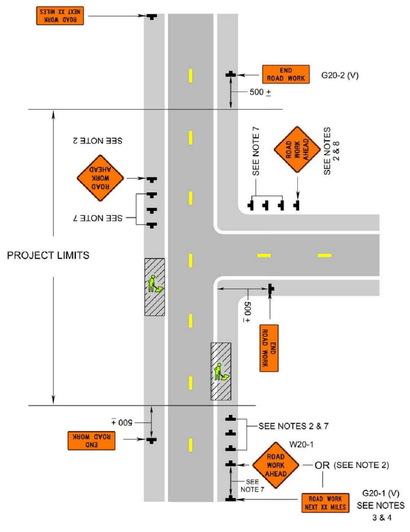
Standard:

2. **The ROAD WORK AHEAD (W20-1) sign or the ROAD WORK NEXT XX MILES (G20-1 (V)) sign shall be placed far enough in advance of the project limits so that other warning signs in a series may be adequately placed prior to the condition they are warning about.**
3. **The ROAD WORK NEXT XX MILES sign shall be used for projects with activity areas greater than 2 miles in length, or when multiple work activities (such as pavement patching, guardrail installations, shoulder restoration, etc.) occur along a highway.**
4. **The distance displayed on the ROAD WORK NEXT XX MILES sign shall be stated to the nearest whole mile from the point of installation to the END ROAD WORK (G20-2 (V)) sign.**
5. **On divided highways having a median wider than 8', right and left sign assemblies shall be required.**

Guidance:

6. *For projects with activity areas 2 miles or less in length, the ROAD WORK AHEAD sign should be the first sign motorist encounter.*
7. *Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.*
8. *All connections within the project limits should be identified with signs indicating to motorist they are entering or exiting a potential construction/maintenance area.*

Signing for Project Limits
(Figure TTC-53.0)



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401 MCINTIRE ROAD
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COMMONWEALTH OF VIRGINIA
ERIC W. WOOLLEY
LIC. NO. 37088
PROFESSIONAL ENGINEER

REVISION:

NO.	DESCRIPTION	DATE

SCALE: AS NOTED SCALE

SHEET NAME:
MAINTENANCE OF TRAFFIC DETAILS

SHEET NUMBER:
C-710

DATE: DATE
February 25, 2021

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drawing1.dwg

PROJECT LIMITS

LIMIT OF DISTURBANCE

EXISTING TRAIL

LAWN

LAWN

LAWN

SWM SWALE

HC VAN

HC

HC

REG

STORM PIPES, TYPICAL

SWM BASIN LOCATION

F.Y.S = 75'

LIMIT OF GRADING

PROJECT LIMITS

EXISTING TRAIL

LIMIT OF GRADING

SOIL STOCKPILE

PROJECT LIMITS

PROPOSED TRAIL

FRONT YARD SETBACK = 75'

LIMIT OF DISTURBANCE

PROPERTY BOUNDARY

LIMIT OF GRADING

LIMIT OF DISTURBANCE

AVON STREET

IRS

VDH MF

VDHT IRF

F2323 TA02 10M

F2323 TA49

F2323 TB74

TA 13

OHS FIBER OPTIC

ROUTE 20

SEE DRAWING L301 MATCH LINE

PROJECT LIMITS

IRT w/CAP 9003
N=3880430.82

550 540 590 580 570 560 520 550 510 540 530 520 510

LEGEND

- LARGE CANOPY TREE
- EVERGREEN TREE
- UNDERSTORY TREE
- SHRUB
- EXISTING TREES TO REMAIN

MEADOW

- UPLAND MIX
- HILLSIDE 1 MIX
- HILLSIDE 2 MIX
- SWALE MIX
- BIORETENTION MIX
- ROADSIDE MIX

0 15 30 60

N

ALBEMARLE COUNTY
CLIENT

401 MCINTIRE ROAD
CHARLOTTESVILLE, VA 22901
ADDRESS

BISCUIT RUN

INITIAL SITE PLAN

ANHOLD ASSOCIATES
LANDSCAPE ARCHITECTURE + PLANNING
8311 Rockfish Gap Turnpike
Greenwood, VA 22943

434.882.3420
anholdla.com

COMMONWEALTH OF VIRGINIA
DAVID T. ANHOLD
Lic. No. 00311
LANDSCAPE ARCHITECT

DAVID T. ANHOLD
VA LICENSED LANDSCAPE ARCHITECT
LIC NO. 00311

REVISION:

NO.	DESCRIPTION	DATE
01	PARKS & FACILITIES REVIEW	01.29.21
02	PRELIMNARY SITE PLAN	02.25.21

SCALE: 1" = 30'

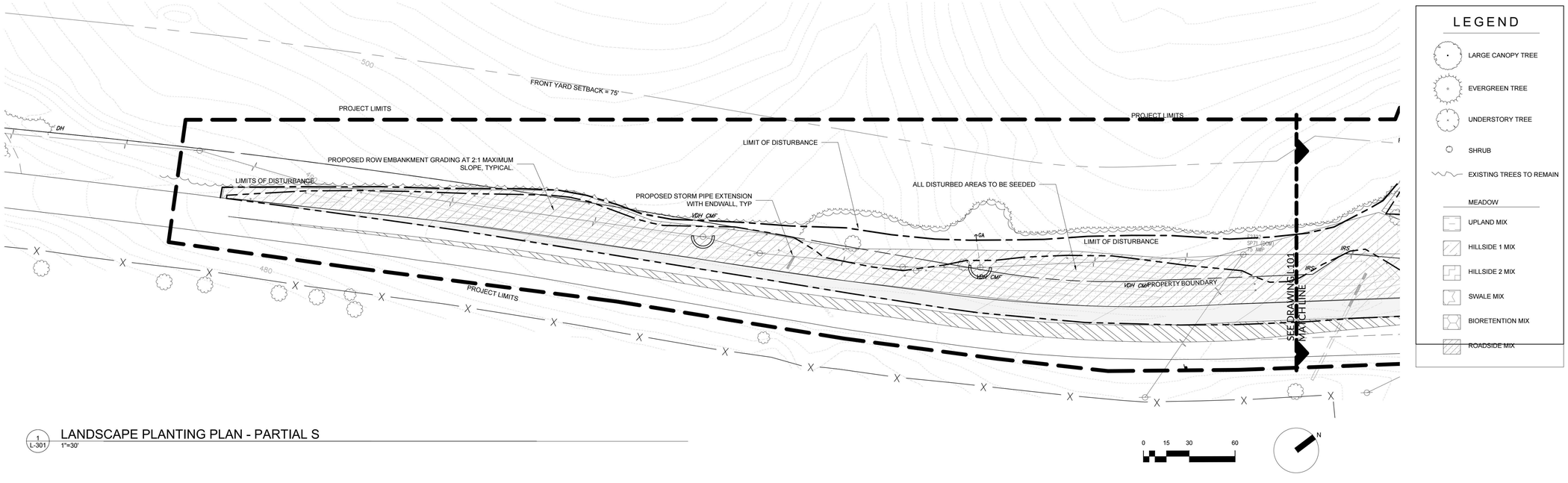
SHEET NAME:
LANDSCAPE PLANTING PLAN- PARTIAL NORTH

SHEET NUMBER:
L-300

DATE:
February 26, 2021

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1 L-301 LANDSCAPE PLANTING PLAN - PARTIAL S
1"=30'

LEGEND

- LARGE CANOPY TREE
- EVERGREEN TREE
- UNDERSTORY TREE
- SHRUB
- EXISTING TREES TO REMAIN

MEADOW

- UPLAND MIX
- HILLSIDE 1 MIX
- HILLSIDE 2 MIX
- SWALE MIX
- BIORETENTION MIX
- ROADSIDE MIX

ALBEMARLE COUNTY
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REVISION:

NO.	DESCRIPTION	DATE
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02	PRELIMNARY SITE PLAN	02.25.21

SCALE: 1" = 30'

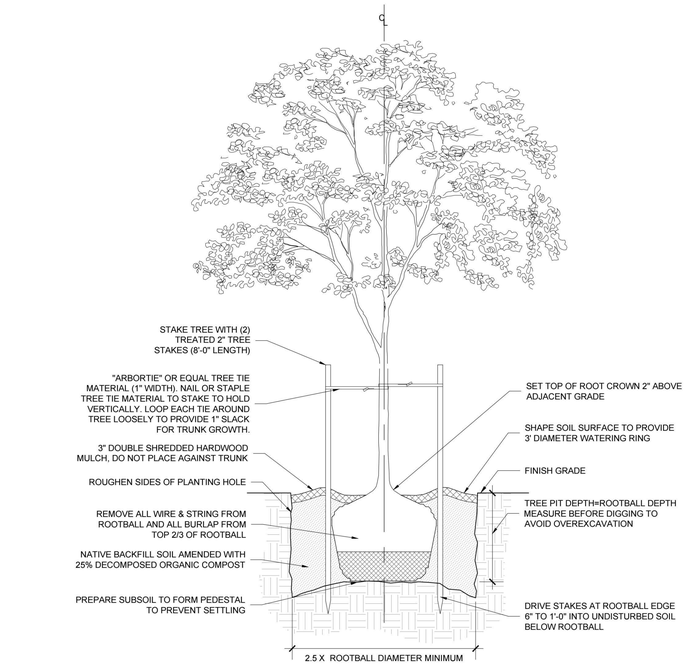
SHEET NAME:
LANDSCAPE PLANTING PLAN-PARTIAL SOUTH

SHEET NUMBER:
L-301

DATE:
February 25, 2021

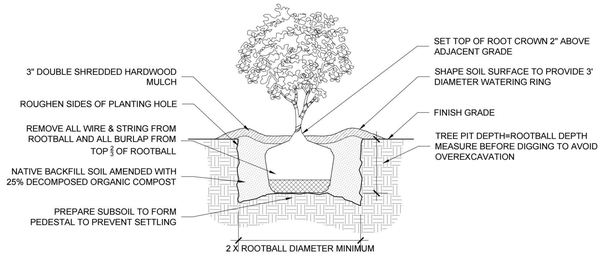
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4 L-302 DECID TREE PLANTING DETAIL

1/2" = 1'-0"



5 L-302 SHRUB PLANTING DETAIL

1/2" = 1'-0"

County of Albemarle
Conservation Plan Checklist – To be placed on Landscape Plans
(Handbook, pp III-284-111-297 for complete specifications)

1. **The following items shall be shown on the plan:**
   - ☒ Trees to be saved;
   - ☒ Limits of clearing (outside dripline of trees to be saved);
   - ☒ Location and type of protective fencing;
   - ☐ Grade changes requiring tree wells or walls;
   - ☐ Proposed trenching or tunneling beyond the limits of clearing.
2. **Markings:**
   - ☒ All trees to be saved shall be marked with print or ribbon at a height clearly visible to equipment operators.
   - ☐ No grading shall begin until the tree marking has been inspected and approved by a County Inspector.
3. **Pre-Construction Conference:**
   - ☐ Tree preservation and protection measures shall be reviewed with the contractor on site.
4. **Equipment Operation and Storage:**
   - ☒ Heavy equipment, vehicular traffic and storage of construction materials including soil shall not be permitted within the driplines of trees to be saved.
5. **Soil Erosion and Stormwater Detention Devices:**
   - ☒ Such devices shall not adversely affect trees to be saved.
6. **Fires:**
   - ☒ Fires are not permitted within 100 feet of the dripline of trees to be saved.
7. **Toxic Materials:**
   - ☒ Toxic materials shall not be stored within 100 feet of the dripline of trees to be saved.
8. **Protective Fencing:**
   - ☐ Trees to be retained within 40 feet of a proposed building or grading activity shall be protected by fencing.
   - ☐ Fencing shall be in place and shall be inspected and approved by a County Inspector prior to grading or construction.
9. **Tree Wells:**
   - ☐ When the ground level must be raised within the dripline of a tree to be saved, a tree well shall be provided and a construction detail submitted for approval.
10. **Tree Walls:**
    - ☐ When the ground level must be lowered within the dripline a tree to be saved, a tree wall shall be provided, and a construction detail submitted for approval.
11. **Trenching and Tunneling:**
    - ☒ When trenching is required within the limits of clearing, it shall be done as far away from the trunks of trees as possible. Tunneling under a large tree shall be considered as an alternative when it is anticipated that necessary trenching will destroy feeder roots.
12. **Cleanup:**
    - ☒ Protective fencing shall be the last items removed during the final cleanup.
13. **Damaged Trees:**
    - ☒ Damaged trees shall be treated immediately by pruning, fertilization or other methods recommended by a tree specialist.

NOTE: IT IS THE DEVELOPER'S RESPONSIBILITY TO CONFER WITH THE CONTRACTOR ON TREE CONSERVATION REQUIREMENTS.

David Anhold — 12/10/2020

OWNER SIGNATURE **(DATE)**

CONTRACT PURCHASER SIGNATURE **(DATE)**

5/1/06 Page 1 of 1

1 L-302 CONSERVATION PLAN CHECKLIST

N.T.S.

ALBEMARLE COUNTY
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01	PARKS & FACILITIES REVIEW	01. 29.21
02	PRELIMNARY SITE PLAN	02. 25.21

SCALE:

SHEET NAME:
LANDSCAPE PLANTING DETAILS

SHEET NUMBER:
L-302

DATE:
February 25, 2021

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