

### **COUNTY OF ALBEMARLE**

## Department of Community Development 401 McIntire Road, North Wing Charlottesville, Virginia 22902-4596

Phone (434) 296-5832

**To:** Albemarle County Planning Commission

From: Mariah Gleason Date: June 16, 2020

Item: SUB202000021 Foothill Crossing Ph V - Modification Request to

waive the establishment of sidewalks on both sides of a public street as

required under County Code §14-422.

Tax Map Parcel(s): 05600-00-00-057B3

Magisterial District: White Hall

**School Districts:** Western Albemarle H.S.; Henley M.S.; Crozet E.S.

Zoning District: R-6 Residential

## **Summary of Request for Modification of Sidewalk:**

The applicant is requesting a modification of the requirement to provide sidewalk facilities on the south side of an extended portion of Indigo Road. This road will serve as the entrance to this development. In lieu of providing sidewalks on the south side of Indigo Road, where no residential lots are proposed, the applicant proposes a connection to existing pedestrian facilities in Claudius Crozet Park that run parallel and adjacent to locations where sidewalks would otherwise be required. A letter of approval from the President of the Crozet Park Board of Directors for the connection to the park's walkways is included in Attachment 1. It is worth noting that this is a private park and may not always remain a park in the future.

County Code §14-422(A) requires the establishment of sidewalks on both sides of each new street within a residential subdivision in the development areas. Per County Code §14-422(E), this requirement can be modified by the commission as provided in County Code §14-203.1(B) according to the evaluation criteria contained in County Code §14-422(E)(2).

### Staff Recommendation:

With regards to the findings contained in the Staff Analysis (Attachment 2), inclusive of the criteria to be considered pursuant to Albemarle County Code §14-422(E)(2), **staff recommends approval** of this modification request with the following condition:

 The locations of sidewalks for the Foothill Crossing Phase V development must be in general accord with the sidewalk locations as shown on the plans entitled "Foothill Crossing Phase V - Road Plans, SUB2020-00021," which were prepared by Collins Engineering and are last dated March 30, 2020.

### Attachments:

- 1 Justification and Application Materials
- 2 Staff Analysis
- 3 SUB202000021 Foothill Crossing Ph V Road Plans (under review; last dated 3/30/2020)



434.293.3719 PH 434.293.2813 FX

www.collins-engineering.com

May 28, 2020

Mariah Gleason, Senior Planner Albemarle County, Department of Community Development 401 McIntire Road Charlottesville, VA 22902

Regarding: SDP2020-013 – Foothill Crossing Phase V Final Site Plan

Request for an Exception to the sidewalk requirement

Dear Mariah:

I'm writing to request a waiver exception for the requirement to provide sidewalks on both sides of a public street within the Foothill Crossing development for the extension of the existing Indigo Road into the development. In accordance with Sec. 14-422, the applicant requests an exception to the sidewalk requirement as noted below.

The existing indigo Road, which serves as the entrance roadway into the development, currently has a sidewalk on the north side of the roadway, adjacent to the development lots. The existing roadway does not have a sidewalk on the southern portion of the roadway, adjacent to the Crozet Park. However, there is an existing 5' to 6' asphalt pathway running parallel to the existing roadway within the Park. This existing asphalt pathway continues along the entire portion of the existing Indigo roadway and continues along proposed portion of the roadway extension of Indigo Road within the limits of this development. Because there is an existing asphalt pathway along the southern portion of the Indigo Road right of way and because there are no proposed development lots along the southern portion of Indigo Road, we are requesting an exception for the requirement of a sidewalk on this portion of the roadway. A planting strip will still be provided along this portion of the roadway, and a sidewalk and planting strip will be provided on the northern portion of Indigo Road. However, since there is an existing asphalt pathway parallel to this roadway within five feet to ten feet of the right of way, adding a sidewalk on the southern side of the roadway parallel to the existing pathway is redundant and not necessary.

As shown in the development plans, the other roadway within the development will have a sidewalks and planting strips on both sides of the roadway, as required by the County Ordinance. All portions of the proposed roadway adjacent to the development lots will have the required 6' planting strip and 5' concrete sidewalk. The only portion of the proposed roadway were an exception is being requested is adjacent to the existing Crozet Park. In addition, attached is a letter from the Crozet Park board allowing an asphalt pathway connection from the proposed sidewalks within this development to the existing asphalt pathway within the Crozet Park. This connection is a benefit to the community, allowing access to the park from this proposed development and the adjacent neighborhoods.

Please let me know if you have any questions or require any additional information.

Sincerely,

Scott R. Collins
Scott Collins, PE



April 21, 2020

Re: Crozet Park Perimeter Trail Access

Dear Stanley Martin Companies, LLC,

The Crozet Park Board of Directors approves the "Proposed 5' Asphalt Pathway To Connect To Existing Pedestrian Walkway" as shown on the attached Exhibit A. Stanley Martin Companies, LLC shall be wholly responsible for installing the proposed connection to the walkway.

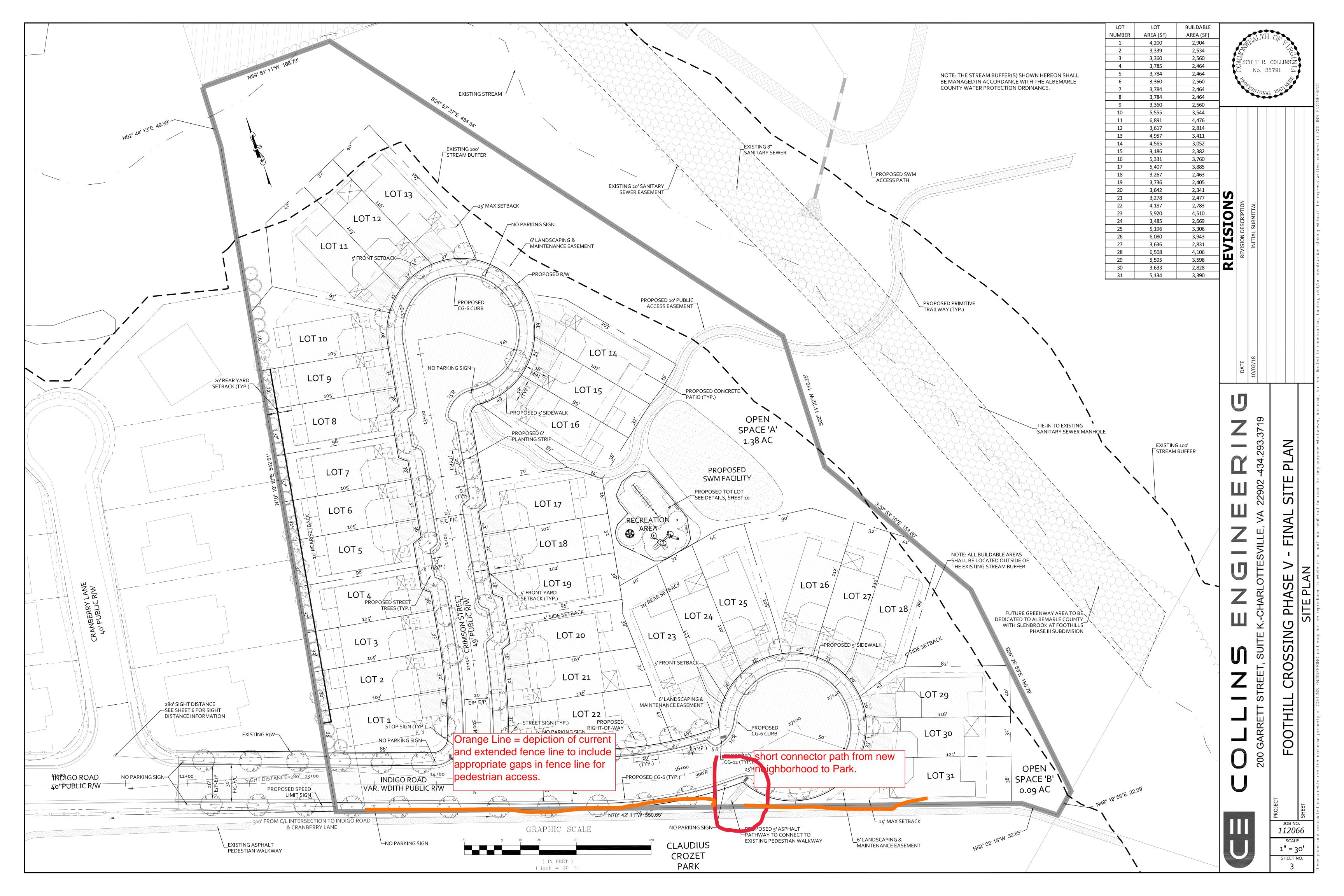
Additionally, Stanley Martin Companies, LLC will extend the three-board fence along the shared boundary as shown in Exhibit A. This would take the existing fence line to the Park's NE boundary.

Sincerely,

Kim Guenther

President, Board of Directors Claudius Crozet Park, Inc.

Claudius Crozet Park is a 501(c)3 non-profit organization. All donations are tax deductible.



### ATTACHMENT B - STAFF ANALYSIS

STAFF PERSON: PLANNING COMMISSION: Mariah Gleason June 16, 2020

Sidewalks are required to be established on both sides of each new street within a subdivision in the development areas. The applicant has requested that this requirement be waived along the south side of the proposed extension of Indigo Road. Staff analysis of the special exception was conducted according to the evaluation criteria contained in Section 14-422(E)(2). The requirements for sidewalks may be varied by the commission as provided in Section 14-203.1(B)(1).

### STAFF ANALYSIS

Ordinance language is provided below in **bold** followed by staff comment and analysis. In reviewing the request to except the requirement for sidewalks, the commission shall consider whether:

- i. a variation or exception to allow a rural cross-section has been granted A waiver to allow a rural cross section has not been granted or requested. *Evaluation criteria not applicable.*
- ii. a surface other than concrete is more appropriate for the subdivision because of the character of the proposed subdivision and the surrounding neighborhood No alternative surface is proposed.
   Evaluation criteria not applicable.
- iii. sidewalks on one side of the street are appropriate due to environmental constraints such as streams, stream buffers, steep slopes, floodplain, or wetlands, or because lots are provided on only one side of the street

Proposed lots with the Foothill Crossing Ph V development will only be located on one side of the extended portion of Indigo Road (see Attachment 3). Sidewalks will be provided in areas where residential lots are adjacent to the proposed public right-of-way.

Evaluation criteria met.

iv. the sidewalks reasonably can connect into an existing or future pedestrian system in the area

The sidewalks for this development will tie into existing sidewalks along the north side of Indigo Road. There are currently no sidewalk facilities along the south side of the road, which abuts Claudius Crozet Park. Also, the development will provide a pathway to connect proposed sidewalks on the north side of Indigo Road to existing pedestrian facilities located within Claudius Crozet Park. The Board of Directors for Claudius Crozet Park has approved this proposed connection (see Attachment 1). Pedestrian facilities within Claudius Crozet Park run parallel and adjacent to locations where sidewalks are requested to be waived.

Evaluation criteria met.

v. the length of the street is so short and the density of the development is so low that it is unlikely that the sidewalk would be used to an extent that it would provide a public benefit The length of sidewalk that is requesting to be waived is relatively short (approximately 465 feet) and the density within this area will likely be and remain low as future additions to this development are unlikely given the location of a nearby stream along the northern and eastern edges of the property. Also, as mentioned above, in areas where sidewalks will not be provided, the applicant is proposing to utilize walkways within Claudius Crozet Park that are parallel and adjacent to locations where sidewalks would be required.

Evaluation criteria met.

vi. an alternate pedestrian system including an alternative pavement could provide more appropriate access throughout the subdivision and to adjoining lands, based on a proposed alternative profile submitted by the subdivider

The applicant has not proposed an alternative profile for the proposed sidewalks. Proposed sidewalks will meet the County's design standards.

Evaluation criteria not applicable.

## vii. the sidewalks would be publicly or privately maintained

Sidewalks within the Foothill Crossing Ph V development, as well as the proposed pathway to connect the sidewalk to existing pedestrian facilities in Claudius Crozet Park, will be maintained by the Homeowner's Association.

Evaluation criteria met.

# viii. the waiver promotes the goals of the comprehensive plan, the neighborhood model, and the applicable neighborhood master plan

This waiver aligns with the goals of the Crozet Master Plan and neighborhood model. The Transportation Plan in the Crozet Mater Plan envisions an extension of Indigo Road in this location. While the development works to implement the build out of this road in accordance with the Master Plan, this waiver to the sidewalk requirement does not work against the fulfillment of the Master Plan. Also, the provision of sidewalks in front of proposed lots and the connection to walkways in Crozet Park supports an interconnected system of local pedestrian travelways to designation areas (i.e. parks and residences) which aligns with the neighborhood model principles.

Evaluation criteria met.

# ix. waiving the requirement would enable a different principle of the neighborhood model to be more fully achieved

Waiving this requirement would not work to enable a different principle of the neighborhood model to be more fully realized.

Evaluation criteria not applicable.

### STAFF RECOMMENDATION

With regards to the findings contained herein, **staff recommends approval** of this modification request with the following condition:

1. The locations of sidewalks for the Foothill Crossing Phase V development must be in general accord with the sidewalk locations as shown on the plans entitled "Foothill Crossing Phase V - Road Plans, SUB2020-00021," which were prepared by Collins Engineering and are last dated March 30, 2020.

# **GENERAL NOTES**

OWNER: GLENBROOK, LLC

PO BOX 1467 CHARLOTTESVILLE, VA 22902

DEVELOPER: RIVERBEND DEVELOPMENT, INC.

455 SECOND STREET, SE SUITE 400 CHARLOTTESVILLE, VA 22902 ATTN: ALAN TAYLOR

(434)293-3719

ENGINEER: COLLINS ENGINEERING 200 GARRETT ST, SUITE K CHARLOTTESVILLE, VA 22902

TAX MAP NO .: 05600-00-00-057B3

5.84 AC. TOTAL AREA:

ZONING: R-6 RESIDENTIAL, STANDARD LEVEL - CLUSTER DEVELOPMENT

ALLOWABLE DENSITY FOR STANDARD LEVEL CLUSTER DEVELOPMENT: 6 DU/AC DENSITY:

5.84 ACRES x 6 UNITS / ACRE = 35 UNITS

 $PROPOSED\ LOTS = 31$ PROPOSED DENSITY:

31 UNITS / 5.84 AC. = 5.3 DU/AC.

31 SINGLE FAMILY ATTACHED UNITS (TYPICAL NUMBER OF BEDROOMS FOR EACH PROPOSED USE:

UNIT SHALL BE (2) OR (3) BEDROOMS)

OPEN SPACE: TOTAL OPEN SPACE PROPOSED = 1.622 AC (27.8%)

> TOTAL OPEN SPACE REQUIRED (25%) = 1.46 ACRES OPEN SPACE TO BE OWNED AND MAINTAINED BY THE HOMEOWNERS

ASSOCIATION. ALL OPEN SPACE SHALL BE RESERVED IN A DEED FOR THE COMMON USE OF LOT OWNERS IN THE SUBDIVISION.

OPEN SPACE A = 0.067 ACRES OPEN SPACE C = 1.383 ACRES

OPEN SPACE B = 0.092 ACRES OPEN SPACE D = 0.055 ACRES OPEN SPACE E = 0.025 ACRES

RECREATION AREA: TOTAL AREA PROVIDED = 37,950 SF (6,200 SF REQUIRED)

4,450 SF PROVIDED FOR ACTIVE RECREATIONAL TOT LOT. (MIN. TOT LOT SIZE = 2,000 SF)

33,500 SF PROVIDED FOR THE PRIMITIVE WALKING TRAIL AND PASSIVE RECREATIONAL AREA.

SEE SHEET 3 FOR DETAILS ON THE ACTIVE AND PASSIVE RECREATIONAL AREAS.

PRESERVED/MANAGED SLOPES: NO PRESERVED SLOPES ARE SHOWN WITHIN THE LIMITS OF THE PROPERTY. SMALL AREAS OF MANAGED SLOPES ARE LOCATED ON THE PROPERTY AND SHOWN ON THE EXISTING CONDITIONS

PLAN SHEET.

BUILDING HEIGHTS: MAXIMUM BUILDING HEIGHTS SHALL NOT EXCEED 35 FEET

NOTE: VILLA UNITS WILL BE 1-1/2 STORIES AND A MAXIMUM OF 25' IN HEIGHT

SETBACKS: FRONT: MIN. 5' (18' MINIMUM FROM R/W OR EDGE OF SIDEWALK TO GARAGE) MAXIMUM - 25' MAXIMUM SETBACK

SIDE: MINIMUM - 5 FEET, UNLESS THE BUILDING SHARES A COMMON WALL

BUILDING SEPARATION: 10 FEET, UNLESS THE BUILDING SHARES A COMMON WALL

REAR: 20' MINIMUM AND NO MAXIMUM

SUBDIVISION STREETS: CURB & GUTTER

WATERSHED: LICKINGHOLE CREEK WATER SUPPLY WATERSHED

AGRICULTURAL / FORESTAL DISTRICT: NONE

TOPO & SURVEY:

TOPOGRAPHY PROVIDED BY A COMBINATION OF ROUDABUSH. GALE AND ASSOCIATES AND LOUISA AERIAL SURVEYS INC., JANUARY 2007. THE BOUNDARY LINE INFORMATION IS PROVIDED BY ROUDABUSH, GALE AND ASSOCIATES. INFORMATION FIELD VERIFIED BY COLLINS ENGINEERING IN

DECEMBER OF 2018.

DATUM:

LARGELY WOODED WITH SMALL OPEN SPACES & LIGHT UNDERBRUSH

LIGHTING: NO LIGHTING IS PROPOSED

2 OFF-STREET PARKING SPACES SHALL BE PROVIDED FOR EACH UNIT. PARKING: ON-STREET PARKING SHALL BE PROVIDED WHERE INDICATED ON SITE PLAN.

ONE GUEST PARKING SPACE IS REQUIRED FOR EVERY 4 UNITS. TOTAL UNITS = 31 UNITS/4 = 8 GUEST PARKING SPACES REQUIRED TOTAL ON STREET GUEST PARKING SPACES PROVIDED = 8 SPACES

PHASING: THE PROJECT WILL BE COMPLETED IN ONE PHASE. THE EROSION & SEDIMENT

CONTROL PLAN IS SEPARATED INTO TWO PHASES.

BURIAL SITES: NO CEMETERIES WERE FOUND DURING A FIELD INVESTIGATION OF THE SITE.

STREAM BUFFERS: THE STREAM BUFFERS SHOWN HEREON SHALL BE MANAGED IN ACCORDANCE WITH THE ALBEMARLE COUNTY WATER PROTECTION ORDINANCE

IMPERVIOUS AREAS:

RETAINING WALLS:

Proposed Roadway	34,600 sf
Proposed Sidewalk	9,425 sf
Proposed Driveways	16,225 sf
Proposed Residences	58,550 sf
Proposed Emergency Access	9550

A RETAINING WALL IS PROPOSED WITH THIS PLAN, SEE SHEET 5.

128,350 sf

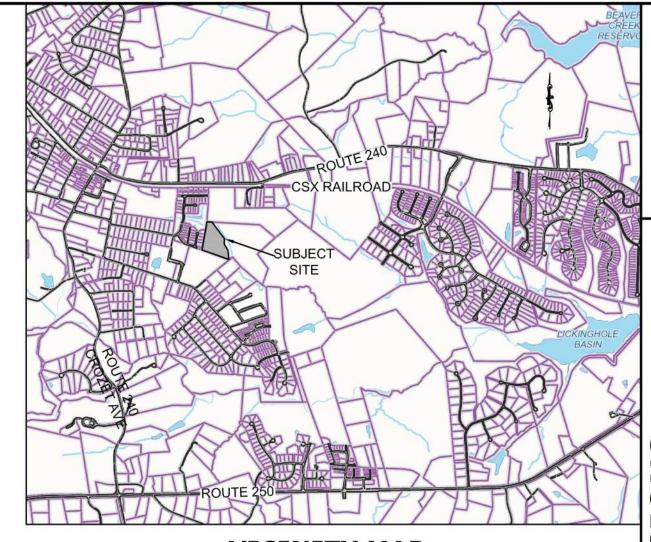
# NOTES:

- THIS PROPERTY DOES NOT LIE WITHIN AN AGRICULTURAL AND/OR FORESTAL DISTRICT.
- ONLY (1) DWELLING PER LOT SHALL BE PERMITTED.
- THIS PROJECT IS NOT LOCATED WITHIN FLOODPLAIN LIMITS, BASED ON FEMA MAP NUMBERS 51003C0229D ADOPTED FEBRUARY 4, 2005. 4) STREET TREES SHALL BE PROVIDED ALONG ALL THE PUBLIC STREETS 40' O.C. IN ACCORDANCE WITH VDOT
- AND ALBEMARLE COUNTY STANDARDS. 5) ITE TRIP GENERATION: TRAFFIC IMPACT NUMBERS ARE BASED ON THE ITE TRIP GENERATION MANUAL, 10TH EDITION. CODE 220 WAS USED FOR THE DEVELOPMENT
  - PROPOSED 31 DWELLING UNITS ADT RATE -7.32 VPD PER DU = 227 ADT (113.5 ENTER/113.5 EXIT)
  - AM PEAK RATE 0.46 VPH PER DU = 14 VPH (3 ENTER/11 EXIT) PM PEAK RATE - 0.56 VPH PER DU = 17 VPH (11 ENTER/6 EXIT)
- 6) ALL TRASH SHALL BE COLLETED BY A DRIVING DUMPSTER SERVICE EACH LOT SHALL HAVE AN INDIVIDUAL TRASH CONTAINER.
- THIS PROPERTY IS NOT LOCATED WITHIN A DAM INUNDATION ZONE. RETAINING WALLS GREATER THAN 3' IN HEIGHT REQUIRE A SEPARATE BUILDING PERMIT. WALLS EXCEEDING
- 9) ALL WATER LINES, SEWER LINES, AND FIRE LINES FROM THE MAIN TO THE STRUCTURE MUST HAVE A VISUAL INSPECTION PERFORMED BY THE BUILDING DEPARTMENT.
- 4' IN HEIGHT REQUIRE A STAMPED ENGINEERED DESIGN. WALLS CROSSING LOT LINES REQUIRE AN

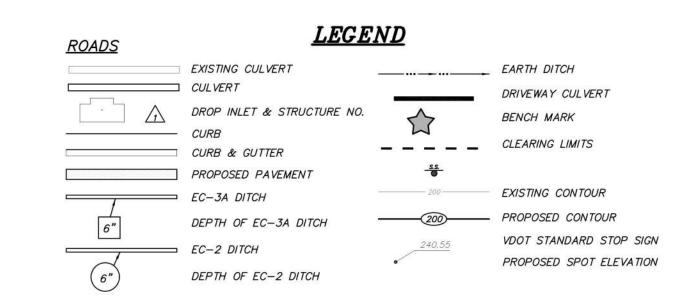
# FOOTHILL CROSSING

PHASE V - ROAD PLAN SUB2020-00021 WHITEHALL DISTRICT ALBEMARLE COUNTY, VIRGINIA





**VICINITY MAP** SCALE: 1'' = 2000'



FINAL SITE PLAN SHEET LIST			
Sheet Number	Sheet Title		
1	COVER SHEET		
2	EXISTING CONDITIONS		
3	SITE PLAN		
4	UTILITY PLAN		
5	GRADING & DRAINAGE PLAN		
6	ROAD PROFILES		
7	STORM PROFILES		
8	SANITARY PROFILES		
9	NOTES & DETAILS		
10	SITE UTILITY DETAILS		
11	LANDSCAPING PLAN		
12	DRAINAGE AREA PLAN & CALCULATIONS		
13	CULVERT PLAN		
TOTAL SHEETS	13		

# SHEET LAYOUT SCALE: 1'' = 60'

OVERALL ACREAGES TOTAL ACRES OF LOTS: 2.99 AC (51.2%) 1.62 AC (27.8%) TOTAL ACRES OF OPEN SPACE: TOTAL ACRES OF ROW: 1.23 AC (21.0%)

1. WHERE THE FLOOD LEVEL RIMS OF PLUMBING FIXTURES ARE BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER, THE FIXTURES SHALL BE PROTECTED BY A BACKWATER VALVE INSTALLED IN THE BUILDING DRAIN, BRANCH OF THE BUILDING DRAIN OR HORIZONTAL BRANCH SERVING SUCH FIXTURES. PLUMBING FIXTURES HAVING FLOOD LEVEL RIMS ABOVE THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER SHALL NOT DISCHARGE THROUGH A BACKWATER VALVE.

2. DUE TO REQUIRED DISTANCES FROM LOT LINES AND STRUCTURES AS REQUIRED BY THE NFPA, UNDERGROUND PROPANE TANKS MAY BE PROHIBITED. THE BUILDER/DEVELOPER SHALL PLAN ACCORDINGLY.

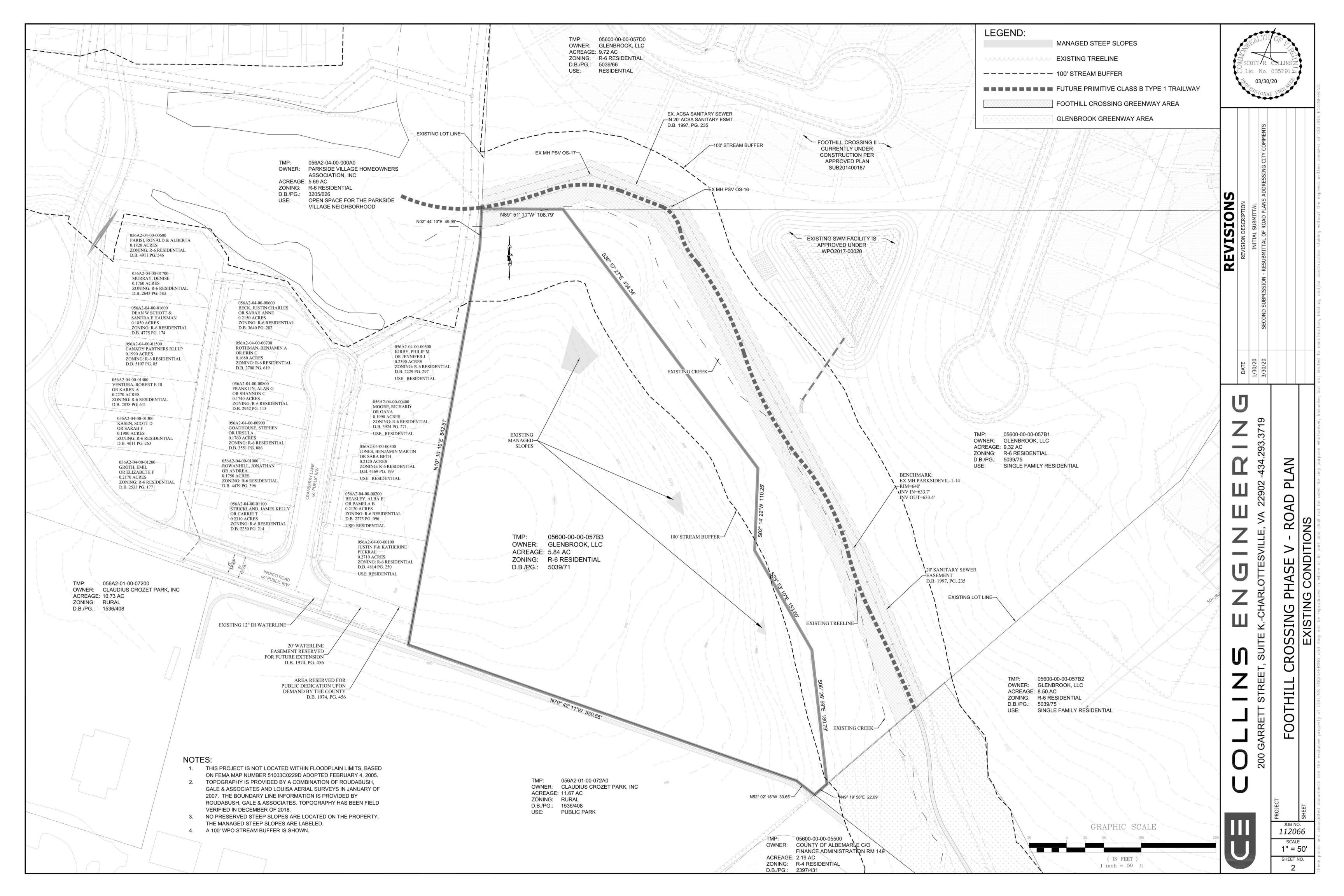
APPROVALS	DATE
DEPARTMENT OF COMMUNITY DEVELOPMENT	
PLANNER/ZONING	
ENGINEER	
INSPECTIONS	
ARB	
DEPARTMENT OF FIRE RESCUE	
ALBEMARLE COUNTY SERVICE AUTHORITY	
VIRGINIA DEPARMENT OF TRANSPORTATION	
HEALTH DEPARTMENT	

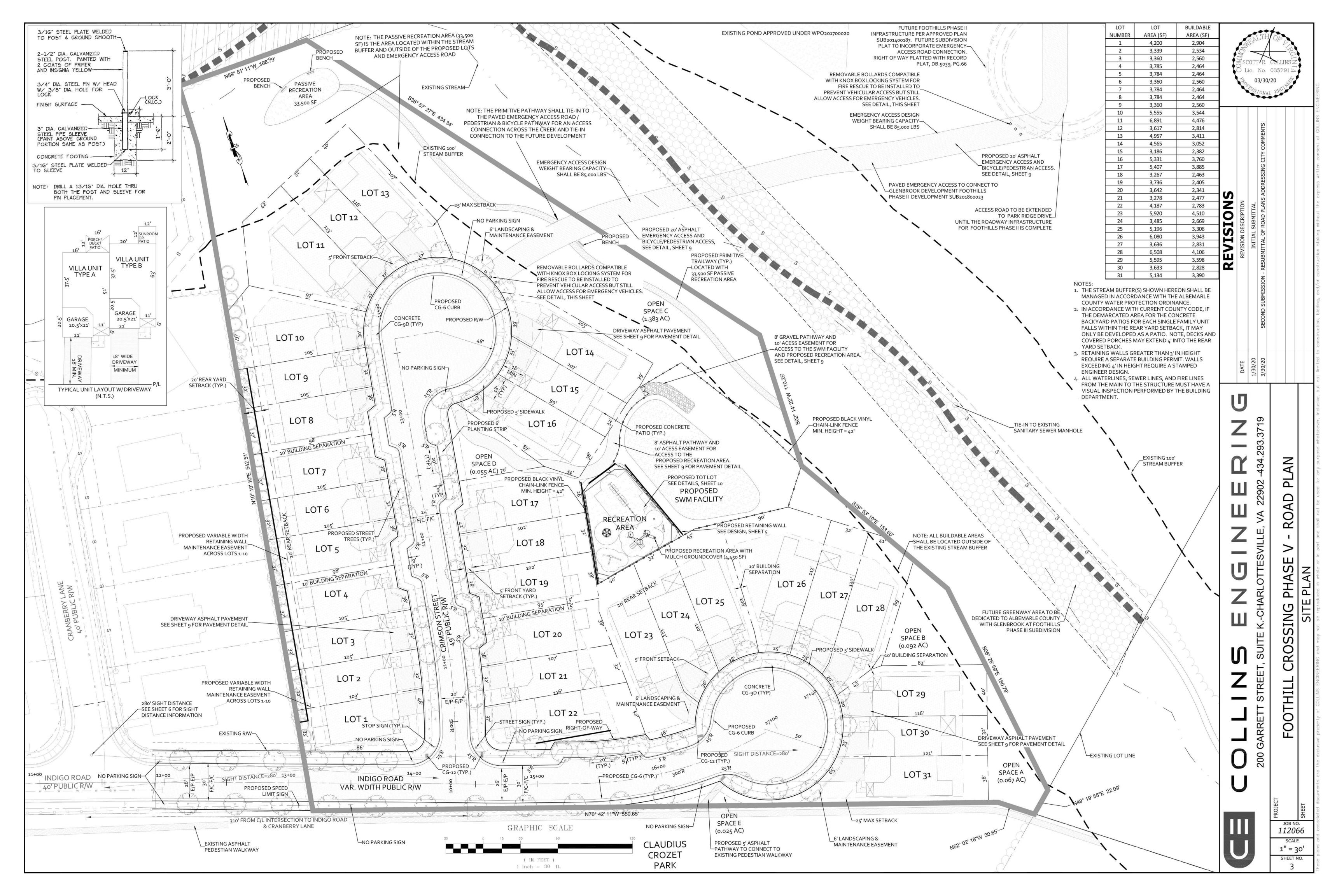
COLLINS ENGINEERING IS NOT RESPONSIBLE OR LIABLE FOR ANY CONSTRUCTION OR DAMAGES TO THIS PROJECT PRIOR TO ALL FINAL PLAN

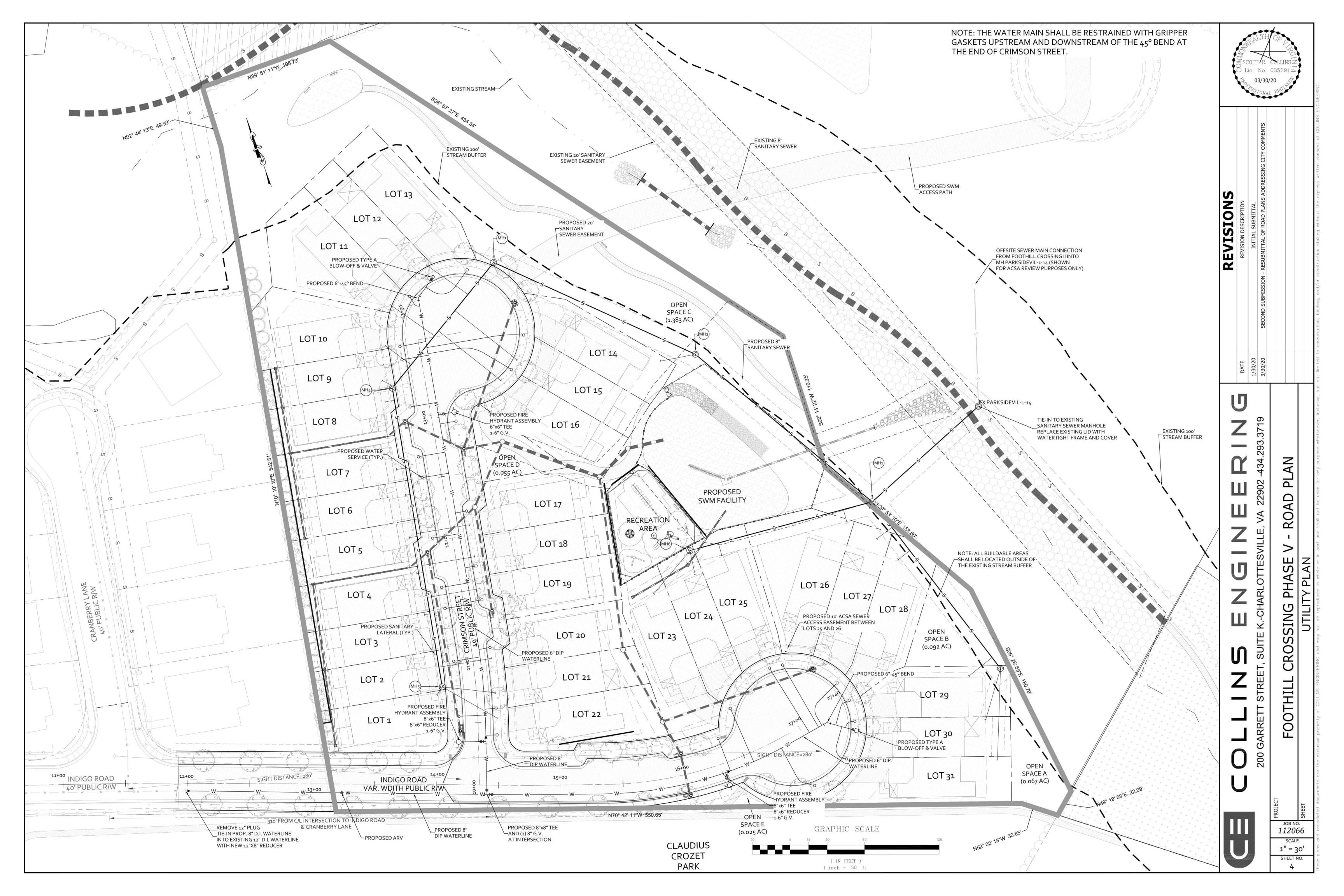
112066 SCALE AS SHOWN

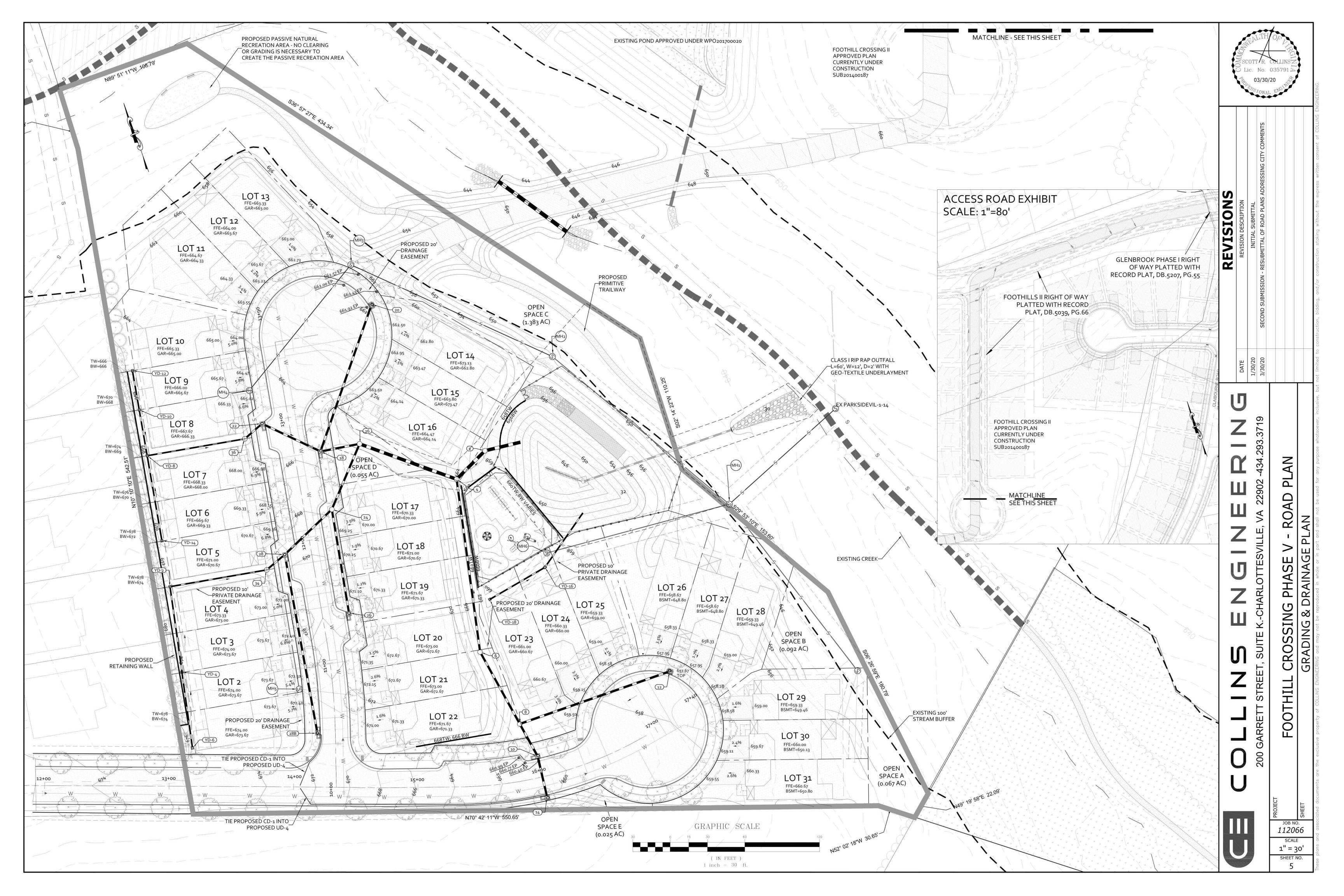
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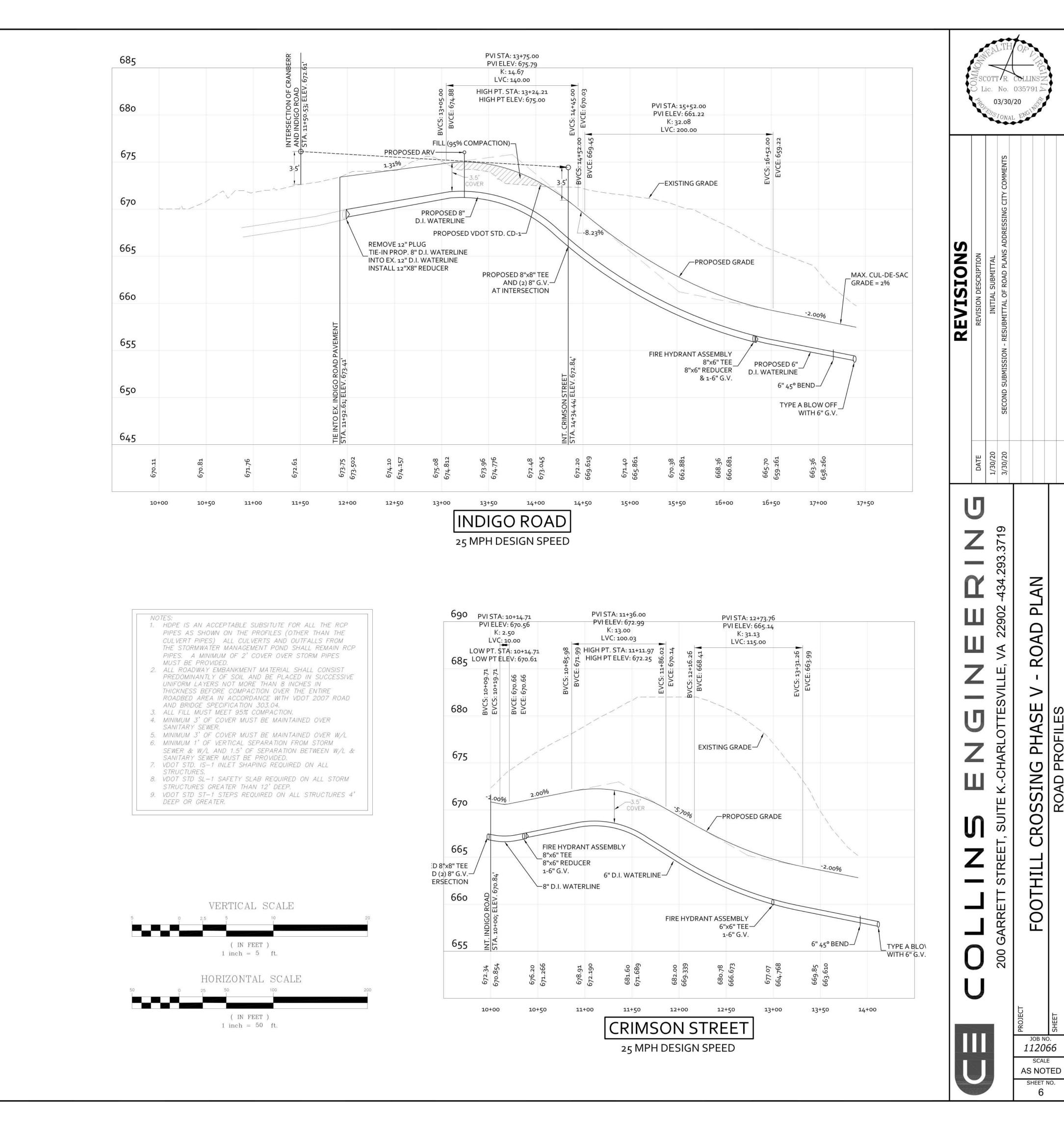
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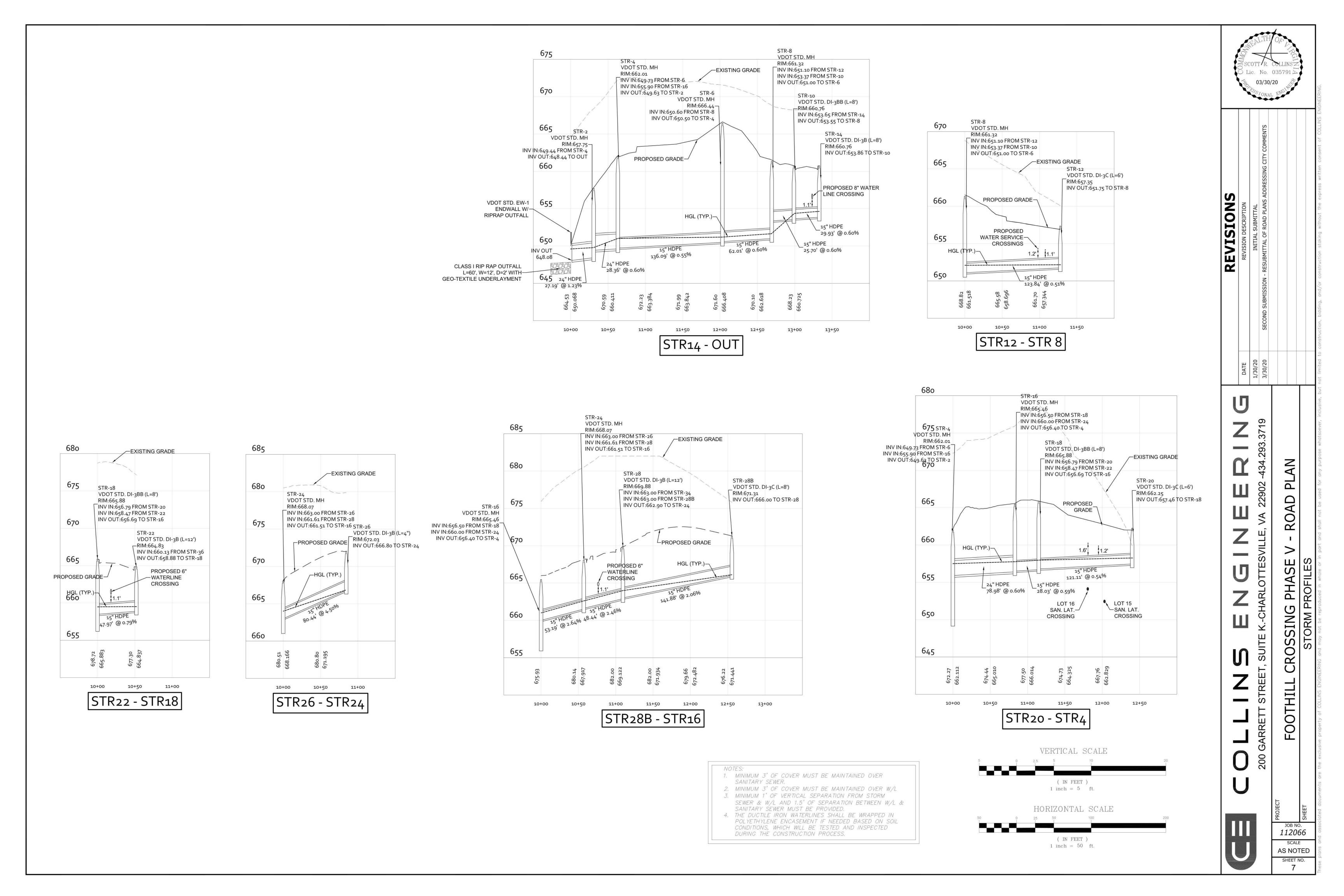


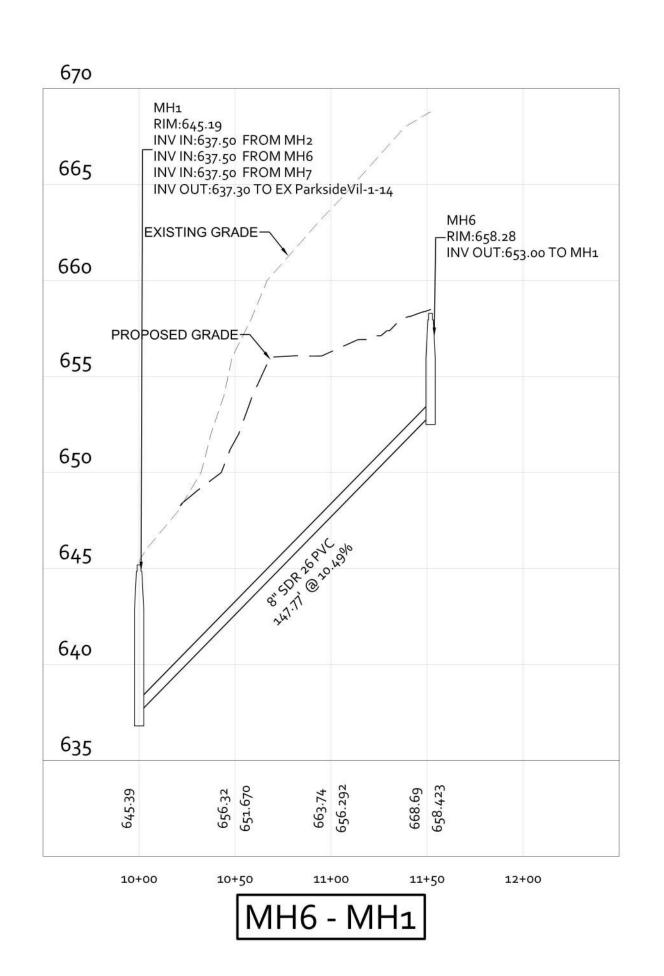


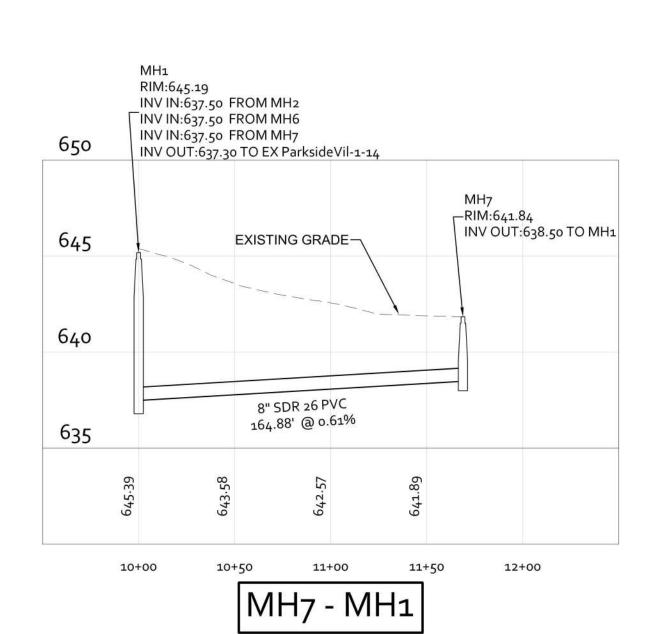


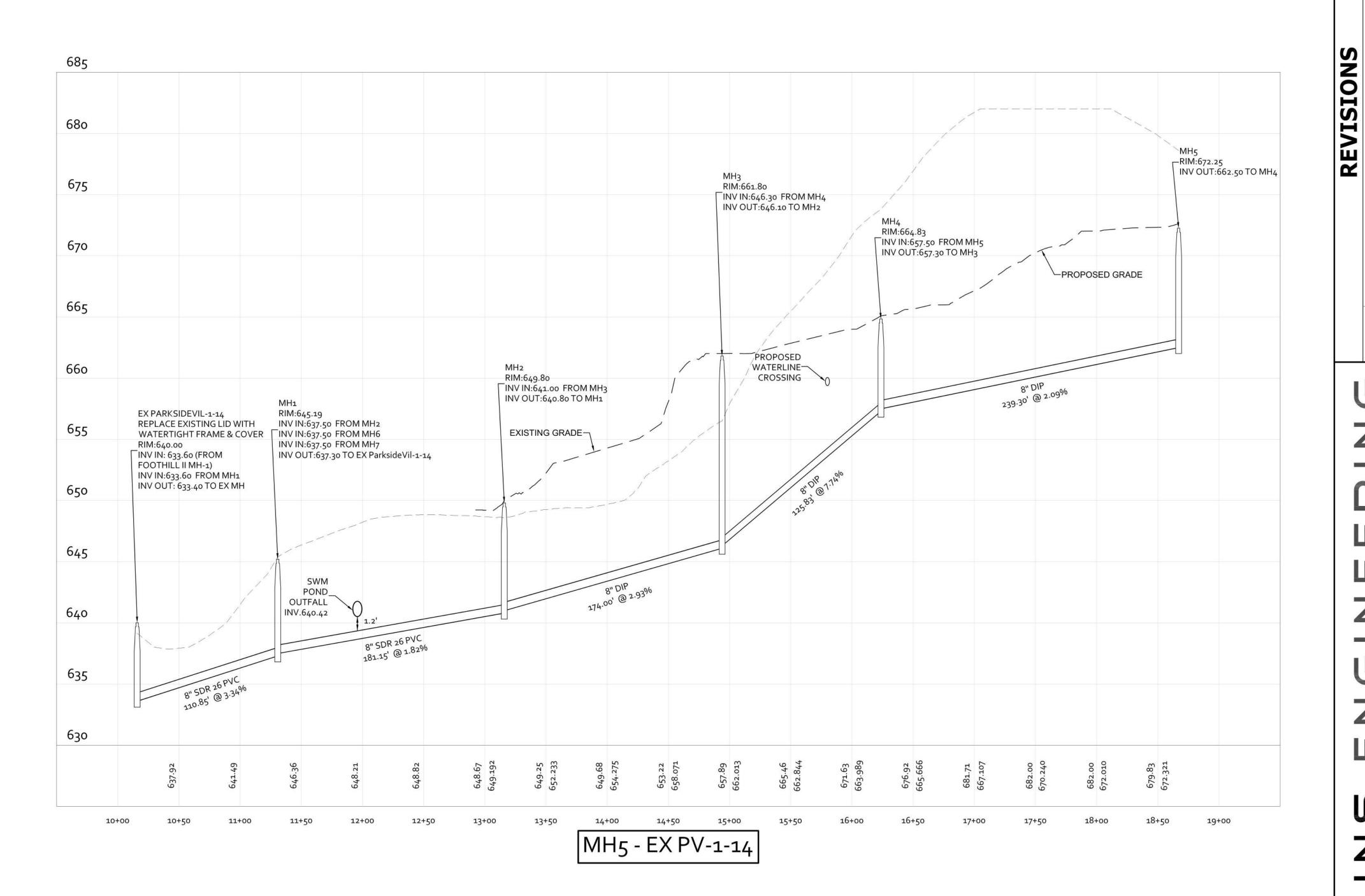








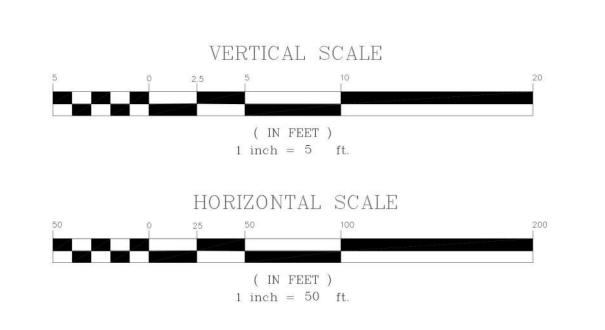


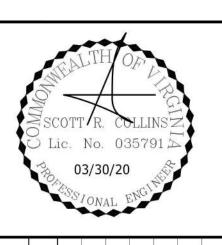


NOTES:

- 1. MINIMUM 3' OF COVER MUST BE MAINTAINED OVER SANITARY SEWER.
- 2. MINIMUM 3' OF COVER MUST BE MAINTAINED OVER W/L
  3. MINIMUM 1' OF VERTICAL SEPARATION FROM STORM
  SEWER & W/L AND 1.5' OF SEPARATION BETWEEN W/L &
- SANITARY SEWER MUST BE PROVIDED.

  4. THE DUCTILE IRON WATERLINES SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT IF NEEDED BASED ON SOIL CONDITIONS, WHICH WILL BE TESTED AND INSPECTED DURING THE CONSTRUCTION PROCESS.





DATE	1/30/20	3/30/20
		200 GARRETT STREET, SUITE KCHARLOTTESVILLE, VA 22902 -434.293.3719

FOOTHILL CROSSING PHASE V - ROA

Z

PLA

III

JOB NO.
112066

SCALE
AS NOTED

SHEET NO.
8

# 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
- 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 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
- 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

CONVENIENT ACCESS. 11. THE SPEED LIMITS TO BE POSTED ON SPEED LIMIT SIGNS ARE 5 MPH BELOW THE

DESIGNEE, THEY ARE DEEMED NECESSARY IN ORDER TO PROVIDE SAFE AND

- 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.

# ROAD NOTES

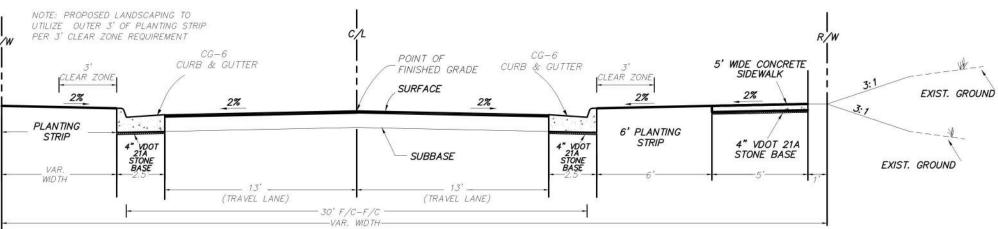
- THE LATEST EDITION OF THE ROAD & BRIDGE SPECIFICATIONS, THE ROAD & BRIDGE STANDARDS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS SHALL GOVERN THE MATERIAL AND CONSTRUCTION METHODS OF
- 2. WHERE UNSUITABLE MATERIAL IS ENCOUNTERED IN THE ROADWAY, IT SHALL BE REMOVED FROM THE ENTIRE ROAD RIGHT OF WAY WIDTH AND REPLACED WHERE NECESSARY WITH SUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER.
- ALL GROWTH OF TREES AND VEGETATION SHALL BE CLEARED AND GRUBBED FOR THE ENTIRE EASEMENT. OTHER TREES AND VEGETATION WHICH OBSTRUCT SIGHT DISTANCES AT ROAD INTERSECTIONS SHALL BE REMOVED.
- 4. ALL VEGETATION AND OVERBURDEN TO BE REMOVED FROM SHOULDER TO SHOULDER PRIOR TO THE CONSTRUCTION OF THE SUBGRADE.

- ALL PIPE CULVERTS, EXCEPT PRIVATE ENTRANCES, SHOWN HEREON ARE TO BE RCP WITH A MINIMUM COVER OF ONE (1) FOOT.
- STANDARD UNDERDRAINS (CD-1 OR CD-2 OR UD-4'S) TO BE PROVIDED AS INDICATED ON THE PLANS, OR WHERE FIELD CONDITIONS INDICATE.
- 3. ALL DRIVEWAY ENTRANCE PIPES SHALL BE A MINIMUM OF TWENTY (20) FEET IN LENGTH AND HAVE A MINIMUM DIAMETER OF FIFTEEN (15) INCHES AND SHALL BE PLACED IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTAION SPECIFICATIONS UNLESS OTHERWISE NOTED ON PLANS.
- 4. ALL DRAINAGE EASEMENT SHALL BE CLEARED AND GRADED TO THE SATISFACTION OF THE ENGINEER. DRAINAGE EASEMENTS SHALL EXTEND TO A
- POINT DEEMED AS NATURAL WATER COURSE. PAVEMENT:
- AN ACTUAL COPY OF THE CBR REPORT IS TO BE SUBMITTED PRIOR TO THE PLACEMENT OF THE AGGREGATE BASE MATERIAL. IF THE SSV VALUES ARE LESS THAN 10, THE DEVELOPER WILL BE REQUIRED TO SUBMIT FOR ENGINEERS APPROVAL THE PROPOSED METHOD OF CORRECTION.
- 2. SUBGRADE MUST BE APPROVED BY THE ENGINEER FOR GRADE, TEMPLATE AND COMPACTION BEFORE BASE IS PLACED. TEST REPORTS ON SELECT MATERIALS MUST BE SUBMITTED SHOWING THE
- MATERIAL MEETS REQUIRED GRADATION FOR TYPE I, II, OR III PRIOR TO PLACING AGGREGATE BASE.
- 4. THE REQUIREMENTS TO PUGMILL AGGREGATE BASE WILL BE WAIVED IN THE EVENT THAT THE SURFACE COURSE IS BEGINNING AT THE COMPLETION OF THE INSTALLATION OF THE AGGREGATE BASE. IN THE EVENT THAT THE SURFACE COURSE IS APPLIED PRIOR TO 60 DAYS, THE PUGMILL REQUIREMENT WILL APPLY.

# **BUILDING OFFICIAL NOTE**

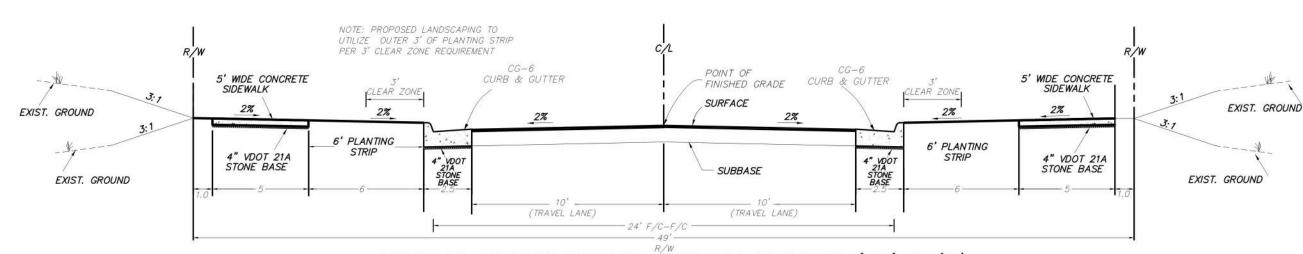
WHERE THE FLOOD LEVEL RIMS OF PLUMBING FIXTURES ARE BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER. THE FIXTURES SHALL BE PROTECTED BY A BACKWATER VALVE INSTALLED IN THE BUILDING DRAIN, BRANCH OF THE BUILDING DRAIN OR HORIZONTAL BRANCH SERVING SUCH FIXTURES. PLUMBING FIXTURES HAVING FLOOD LEVEL RIMS ABOVE THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER SHALL NOT DISCHARGE THROUGH A BACKWATER VALVE.

### **Pavement Design** RF = 10Design | CBR | SSV | Dr ADT Surface h Location Base b ADT SM-9.5 1.5 0.6 | 12.83 Crimson Street BM-25 0.6 | 12.83 Indigo Road 227 9.27 SM-9.5 2.25 NOTE: PROPOSED LANDSCAPING TO UTILIZE OUTER 3' OF PLANTING STRIP



# TYPICAL NEIGHBORHOOD STREET SECTION (VAR. WIDTH R/W) INDIGO ROAD (PUBLIC ROAD) GS-SSAR RESIDENTIAL & MIXED USE SUBDIVISION STREET DESIGN SPEED: 25 MPH PARKING WITH BUMP-OUTS (9'x20' SPACES)

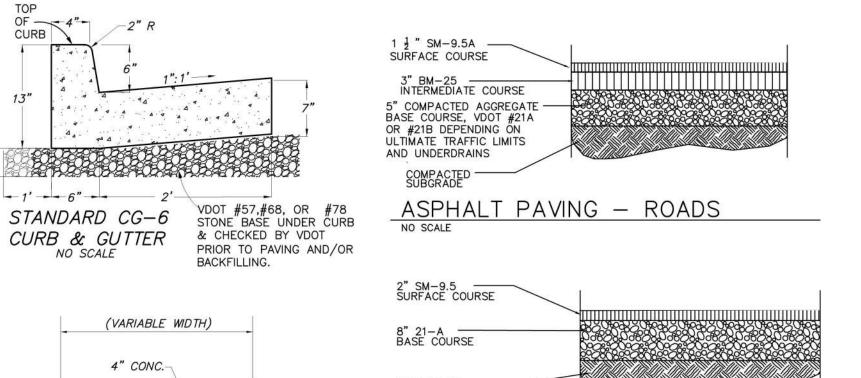
E: UD-4 UNDERDRAINS ARE REQUIRED WHEN THE PROJECTED VOLUME. TRAFFIC ON THE PROPOSED ROADWAYS ARE GREATER THAN 1000 VPD



TYPICAL NEIGHBORHOOD STREET SECTION (49' R/W) CRIMSON STREET (PUBLIC ROADS) GS-SSAR RESIDENTIAL & MIXED USE SUBDIVISION STREET DESIGN SPEED: 25 MPH PARKING WITH BUMP-OUTS (9'x20' SPACES)

TRAFFIC ON THE PROPOSED ROADWAYS ARE GREATER THAN 1000 VPD

NOTE: CONCRETE CG-12 RAMPS SHALL HAVE A MAXIMUM OF 2% CROSS-SLOPE.

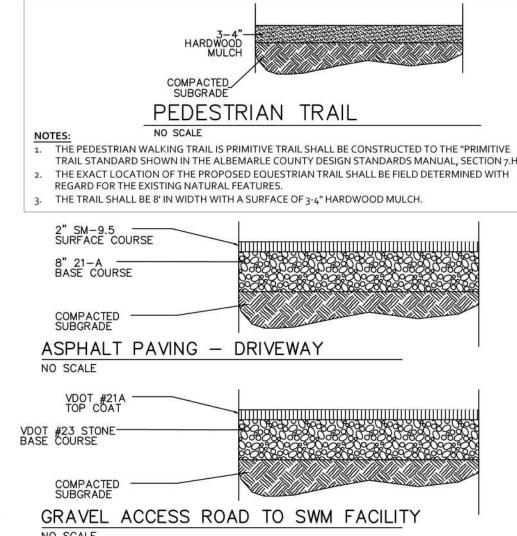


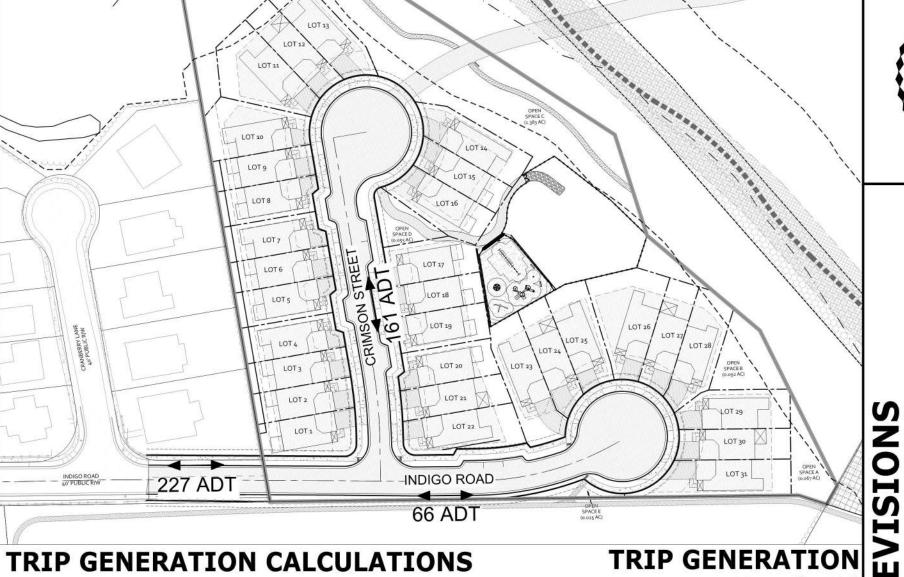
COMPACTED SUBGRADE

- 4" 21-A STONE BASE

Table 4: Pavement Design (VDOT Pavement Design Guide)

ASPHALT PAVING - EMERGENCY ACCESS ROAD & PEDESTRIAN/BICYCLE PATHWAY & TOT LOT/SWM ACCESS PATHWAY





(11 ENTER / 6 EXIT)

SCALE: 1" = 100 TRIP GENERATION BASED ON ITE TRIP GENERATION MANUAL (10TH EDITION)

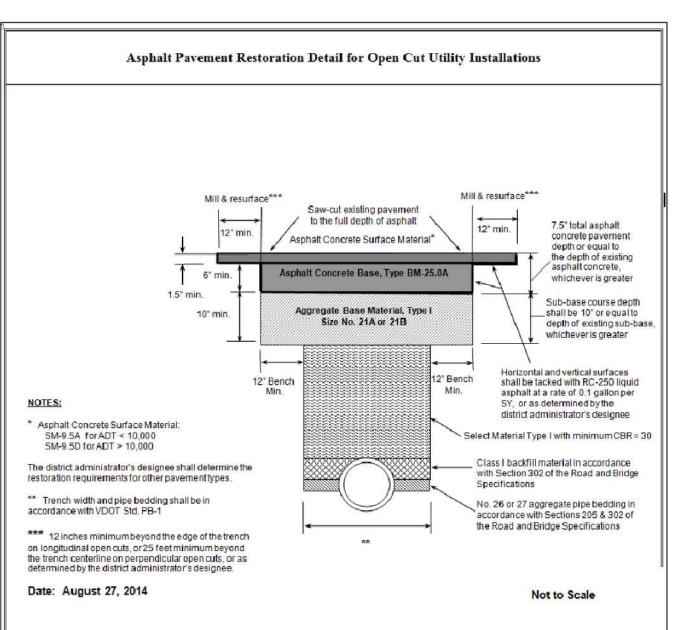
31 TOWNHOUSE UNITS (INCLUDES FUTURE) - CODE 220 227 VPD (113.5 ENTER / 113.5 EXIT) 14 VPH (3 ENTER / 11 EXIT) AM PEAK:

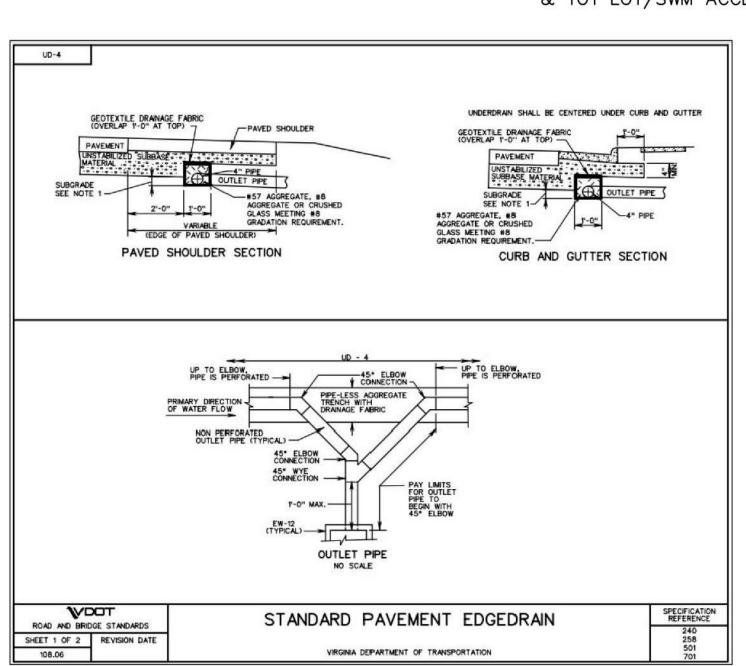
# ALBEMARLE COUNTY GENERAL CONSTRUCTION NOTES

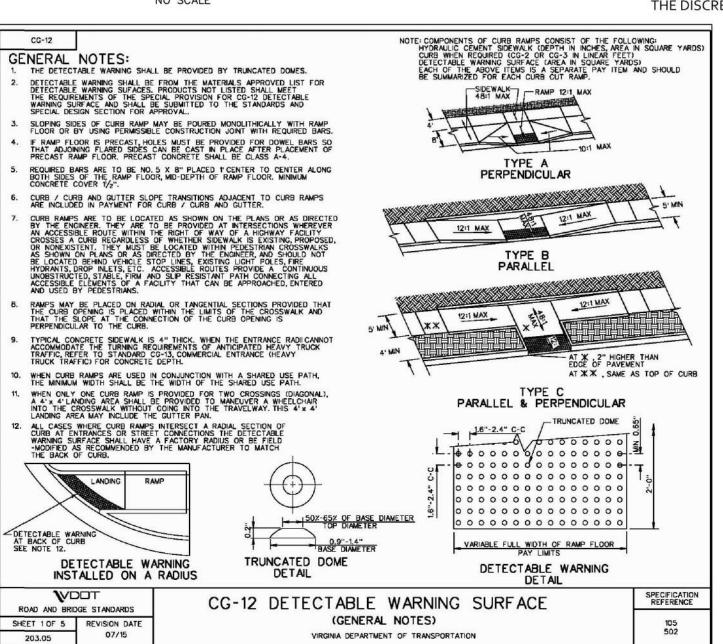
17 VPH

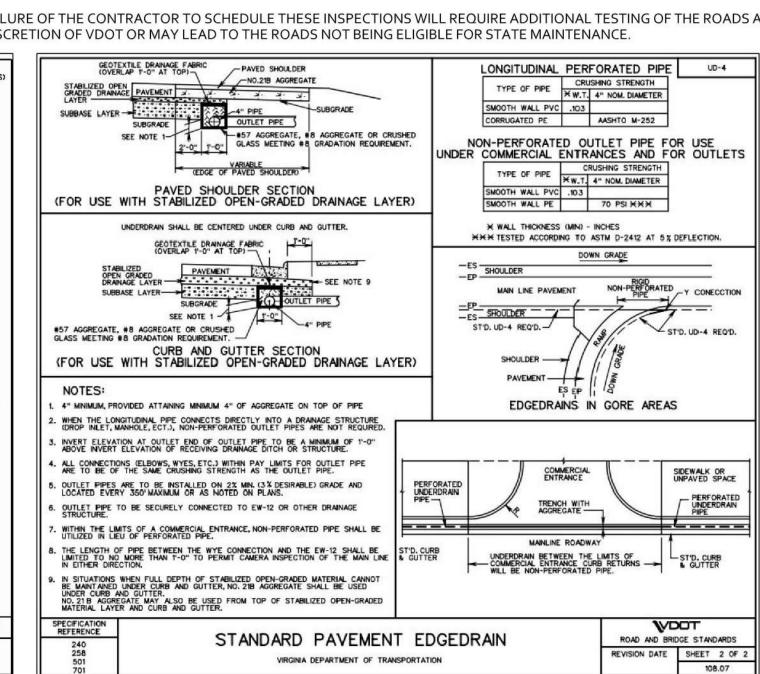
PM PEAK:

- 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
- 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.
- ALL TRAFFIC CONTROL SIGNS SHALL CONFORM WITH THE VIRGINIA MANUAL FOR UNIFORM TRAFFIC
- 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). 10. ALL WATERLINES, SEWER LINES, AND FIRE LINES FROM THE MAIN TO THE STRUCTURE MUST HAVE A
- VISUAL INSPECTION PERFORMED BY THE BUILDING DEPARTMENT.
- NOTE: MANDATORY INSPECTIONS AT THE FOLLOWING PHASES ARE REQUIRED FOR ROADS THAT ARE PROPOSED TO BE STATE MAINTAINED:
- i. INSTALLATION OF ANY ENCLOSED DRAINAGE SYSTEM BEFORE IT IS COVERED
- ii. INSTALLATION OF ANY ENCLOSED UTILITY PLACEMENTS WITHIN THE RIGHT-OF-WAY BEFORE BEING COVERED.
- iii. CONSTRUCTION OF THE CUTS AND FILLS, INCLUDING FIELD DENSITY TESTS, BEFORE PLACEMENT OF ROADBED BASE
- iv. A FINAL PAVEMENT DESIGN, BASED ON ACTUAL SOIL CHARACTERISTICS AND CERTIFIED TESTS, SHALL BE COMPLETED AND APPROVED BEFORE THE PAVEMENT STRUCTURE IS PLACED.
- v. PLACEMENT OF BASE MATERIALS, INCLUDING STONE DEPTHS, CONSISTENT WITH THE APPROVED PAVEMENT DESIGN. PRIOR TO PLACEMENT OF THE PAVING COURSE OR COURSES, FOLLOWED BY FIELD DENSITY AND MOISTURE TESTS AND THE PLACEMENT OF A PAVING COURSE AS SOON AS POSSIBLE.
- vi. CONSTRUCTION OF PAVEMENT, INCLUDING DEPTH AND DENSITY, UPON COMPLETION AS PART OF THE FINAL INSPECTION.
- vii. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING VDOT A MINIMUM OF ONE WEEK PRIOR TO EACH OF THE ABOVE PHASES OF CONSTRUCTION TO SCHEDULE AN INSPECTION.
- viii. FAILURE OF THE CONTRACTOR TO SCHEDULE THESE INSPECTIONS WILL REQUIRE ADDITIONAL TESTING OF THE ROADS AT THE DISCRETION OF VDOT OR MAY LEAD TO THE ROADS NOT BEING ELIGIBLE FOR STATE MAINTENANCE.











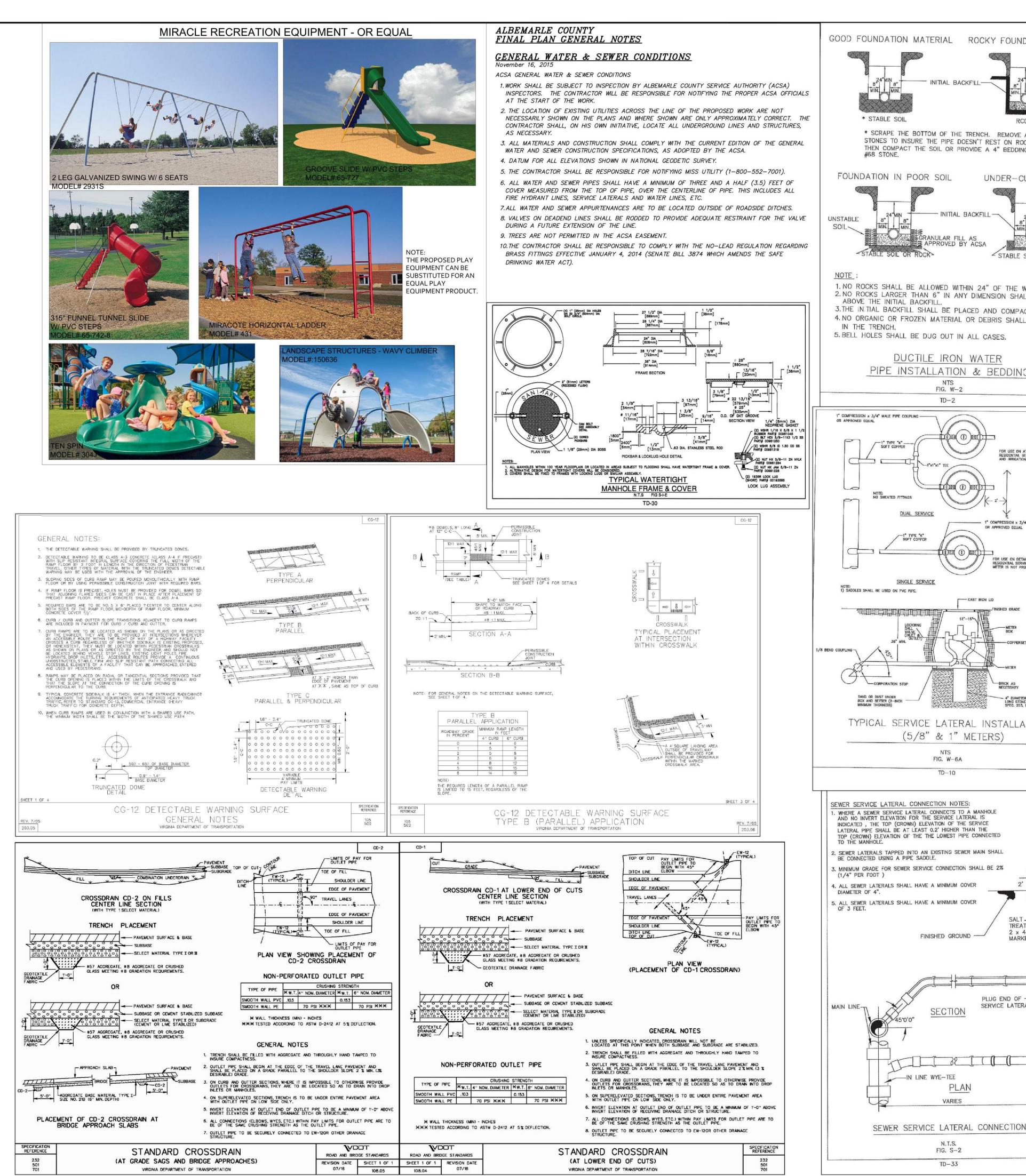
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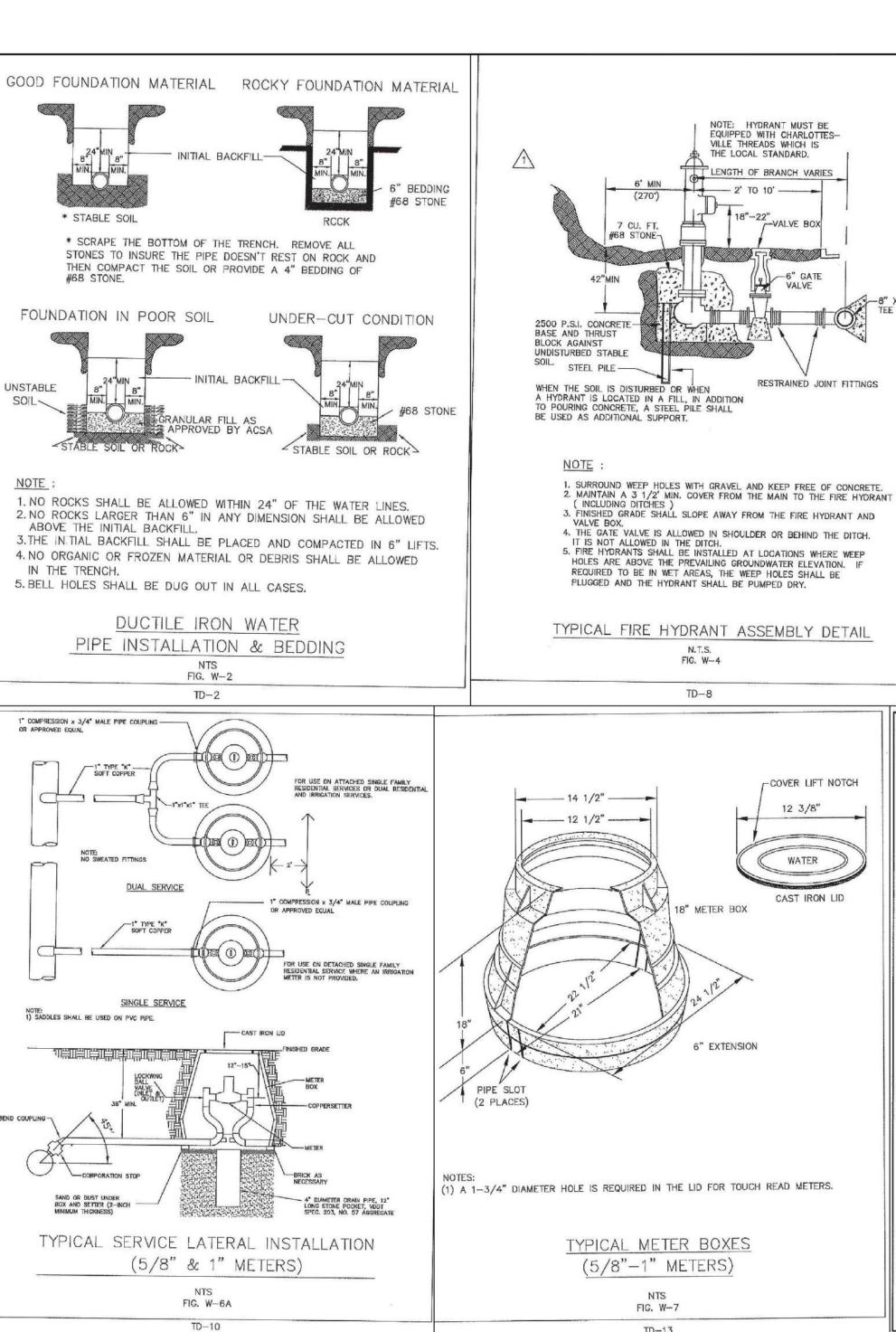
**SCALE** 

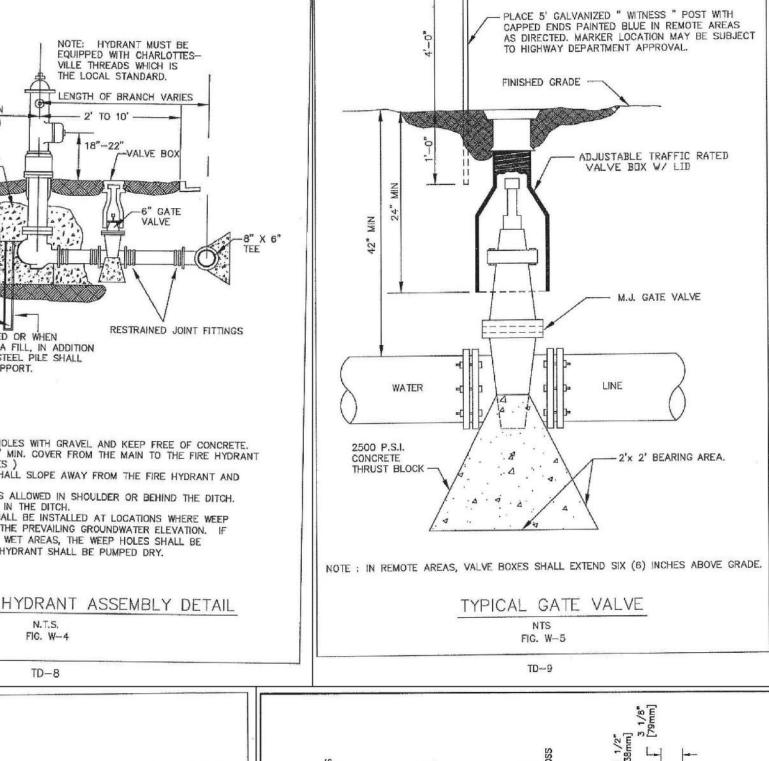
AS NOTED

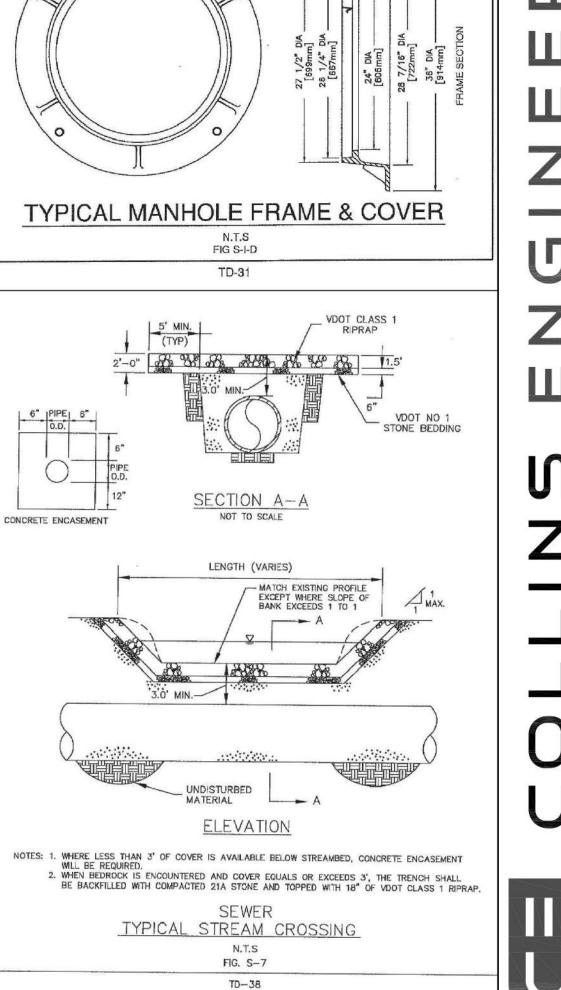
SHEET NO.

03/30/20









NOT CONTAIN ROCK MATERIAL LARGER THAN 5" IN ANY

\* THOROUGHLY COMPACTED

BY HAND OR APPROVED

MECHANICAL TAMPER

-FOUNDATION (SHALL BE

CONDITIONS ARE UNSTABLE

REQUIRED WHEN SOIL

-INTIAL BACKFILL\*

DIMENSION

EMBEDMENT

SPRING LINE OF PIPE

NO. 68 STONE -

STONE SHALL BE PROVIDED

BEDDING OF NO. 68 STONE

TREATED

PLUG END OF

SERVICE LATERAL

TD-33

(6" LIFTS)

-HAUNCHING

OPEN CUTS IN PAVED AREAS WITHIN EXISTING VDOT RIGHT-OF-WAY SHALL BE BACKFILLED ENTIRELY WITH NO. 21A STONE.

2. FOR DUCTILE IRON PIPE THE BOTTOM OF THE TRENCH SHALL BE SCRAPED AND COMPACTED, AND ALL STONES REMOVED OR A 4" BEDDING OF NO. 68

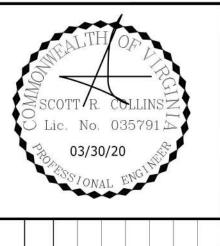
5. WHERE ROCK IS ENCOUNTERED PIPE SHALL BE INSTALLED ON A MINIMUM 6"

TYPICAL SEWER PIPE

INSTALLATION IN TRENCH

FIG. S-3

-BEDDING 6" max 4" min





200

112066 SCALE N/A SHEET NO.

Ø

Z

80

SUIT

