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THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK). GEOPAK Computer Identification No. 102763 INDEX OF SHEETS DESCRIPTION TITLE SHEET LOCATION MAP RIGHT OF WAY DATA SHEET REVISION DATA SHEET BASE MAPPING CONSTRUCTION ALIGNMENT DATA SHEET TRANSPORTATION MANAGEMENT PLAN/SOC NARRATIVE GENERAL NOTES TYPICAL SECTIONS GRADING DIAGRAM AND SUMMARY SUMMARY SHEETS 4290. ROADSIDE DEVELOPMENT SHEET STORMWATER POLLUTION PREVENTION PLAN (SWPPP) 2F(1) thru 2F(3) 38/ INSERTABLE SHEETS \_<u>Associates (540)</u> DET AIL SHEETS . (540) 925-2308 . <u>Associates</u> (540) <u>38</u>1-4290 . <u>1-4690</u> .....<u>Associates</u> (540) <u>38</u>1-4290 1 1 PLAN SHEET - MEADOW CREEK ROAD PROFILE SHEET - MEADOW CREEK ROAD EROSION AND SEDIMENT CONTROL PLAN PLAN SHEET - CUL-DE-SAC ENTRANCE PROFILES EROSION AND SEDIMENT CONTROL PLAN DRAINAGE DESCRIPTION SHEET 6(1) thru 6(3) STORM SEWER PROFILES SIGNING & PAVEMENT MARKING PLANS \*7(1), 7(2), etc. UTILITY CONDUIT PLAN \*8(1), 8(2), etc. <u>п. Brugh, PE -</u> <u>Balzer\_and</u>\_ <u>20\_(804)\_644-</u> ВҮ, DATE\_ TOTAL CROSS SECTION SHEETS: 13 (SEE CROSS SECTION SHEET NUMBER I FOR INDEX OF SHEETS) \* "STRIKE THROUGH" SHEETS NOT INCLUDED IN 60% SUBMISSION PROJECT MANAGER <u>Dan</u> SURVEYED BY, DATE \_<u>B</u> DESIGN BY \_<u>Clark\_Nexsen</u> SUBSURFACE UTILITY E THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE GENERAL NOTES. DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2016 ROAD AND BRIDGE SPECIFICATIONS. 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY. ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11ULS, EXCEPT WHERE OTHERWISE NOTED. THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, IS FILED IN THE VOOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW. THIS PROJECT HAS BEEN DEVELOPED USING THE VDOT MINIMUM PLAN GUIDELINES.

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COMMONWEALTH OF VIRGINIA

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

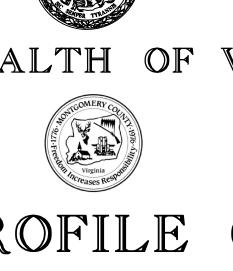
> MEADOW CREEK ROAD & BARN ROAD RE-ALIGNMENT PLAN

MONTGOMERY COUNTY FROM: TYLER ROAD, RTE. 600 TO: 0.172 MI.E. TYLER ROAD, RTE. 600

PROJ. 0658-060-R63, PE-101, RW-201, C-501 E S 01 PT112+25**.**00 MEADOW M CREEK ROAD ٳڴ BARN ROAD G. 00.0 0 P0T100+ A RO 0 LU (4)

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NOTE: PROJECT LENGTH BASED ON CONSTRUCTION BASELINE

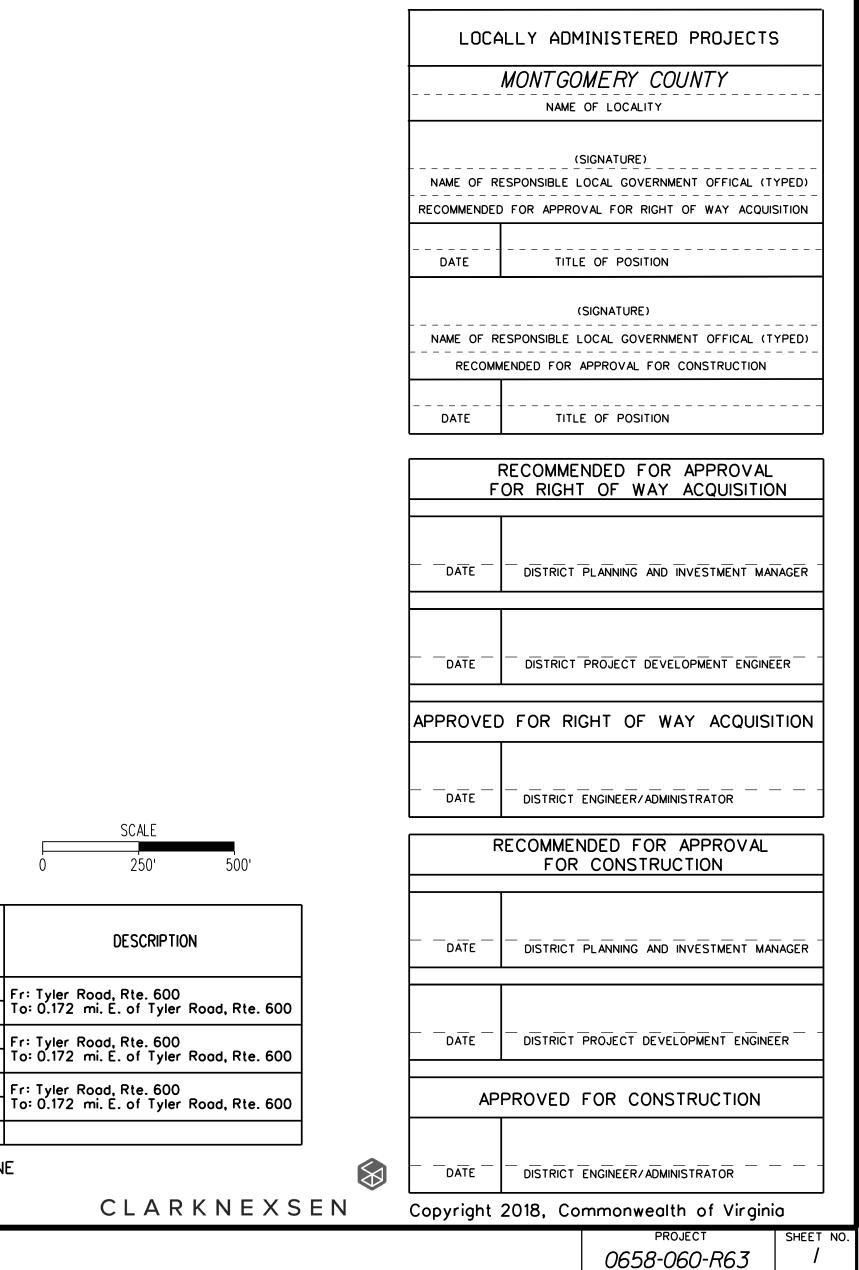


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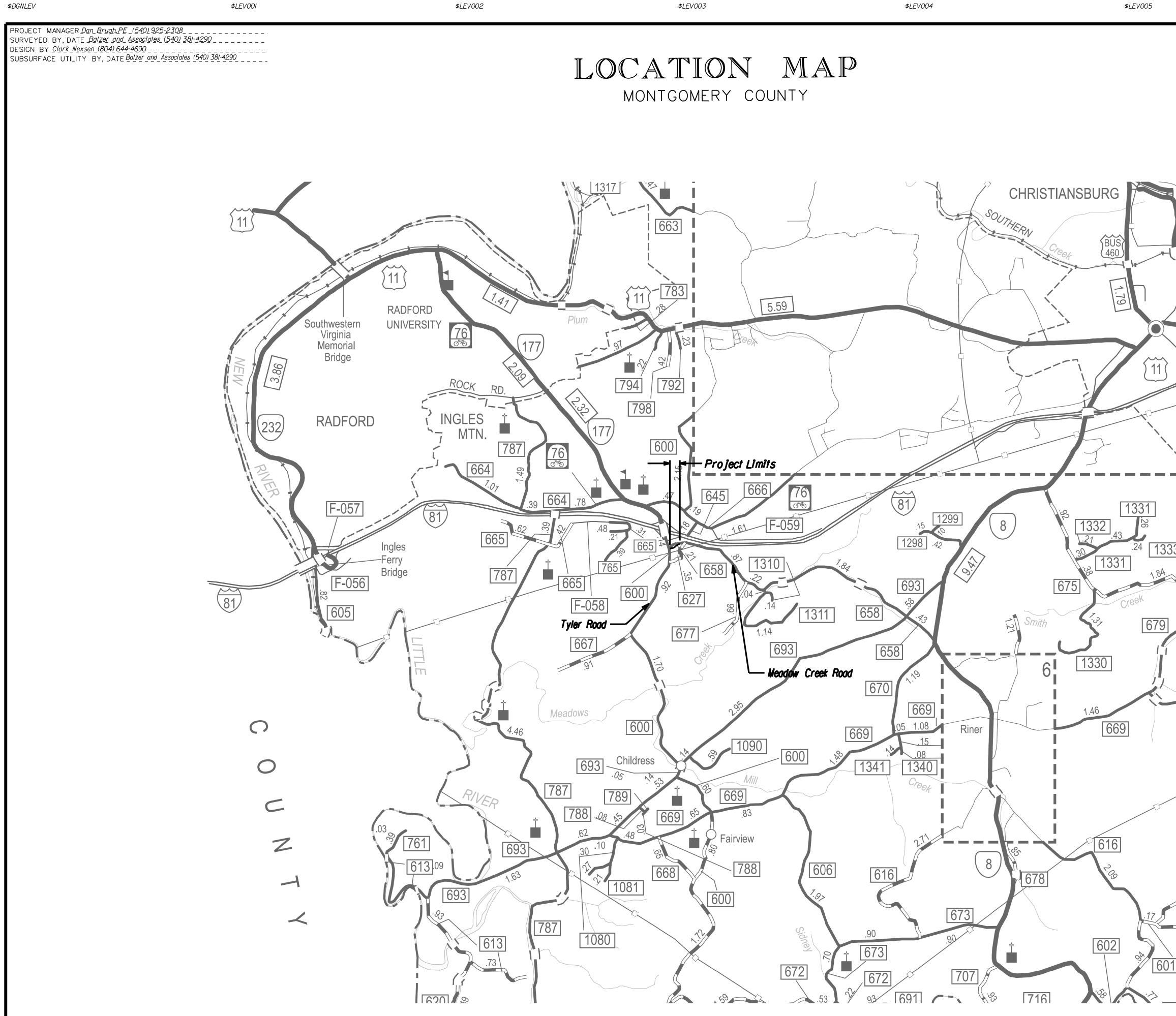
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FHWA-534-35003	V A.		658	SEE TABULATIONS BELOW FOR SECTION NUMBERS	,	
	FUNCTIO	ONAL CLASSIFICA	TION	AND TRAFFIC DATA		
	Rte. 658 - RURAL M	AJOR COLLECTOR, GS-	7 - R(	OLLING - 30 MPH MIN. DES. S	SPEED	
		Fr: Tyler Road, Rte. 6 To: 0.172 mi. E. of Ty	00 /ler Ro	od, Rte. 600		
	ADT (2017)	3,200				
	ADT (2039)	4,800				
	T (%) (design hour)	2				
	V (MPH)	*				
	Rte. 627 - RU	RAL LOCAL ROAD, GS-8	3 - RO	LLING - 25 MPH DES. SPEED		
	ADT (2017)	100				
	ADT (2039)	10				
	T (%) (design hour)	0				
	V (MPH)					

See Plan and Profile Sheets for horizontal and vertical curve design speed data



TIER 1 PROJECT



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PROJECT MANAGER <u>Dan Brugh, PE (540) 925-2308</u> SURVEYED BY, DATE <u>Balzer and Associates (540) 381-4290</u> DESIGN BY <u>Clark Nexsen (804) 644-4690</u> SUBSURFACE UTILITY BY, DATE <u>Balzer and Associates (540) 381-4290</u>

				AREA										
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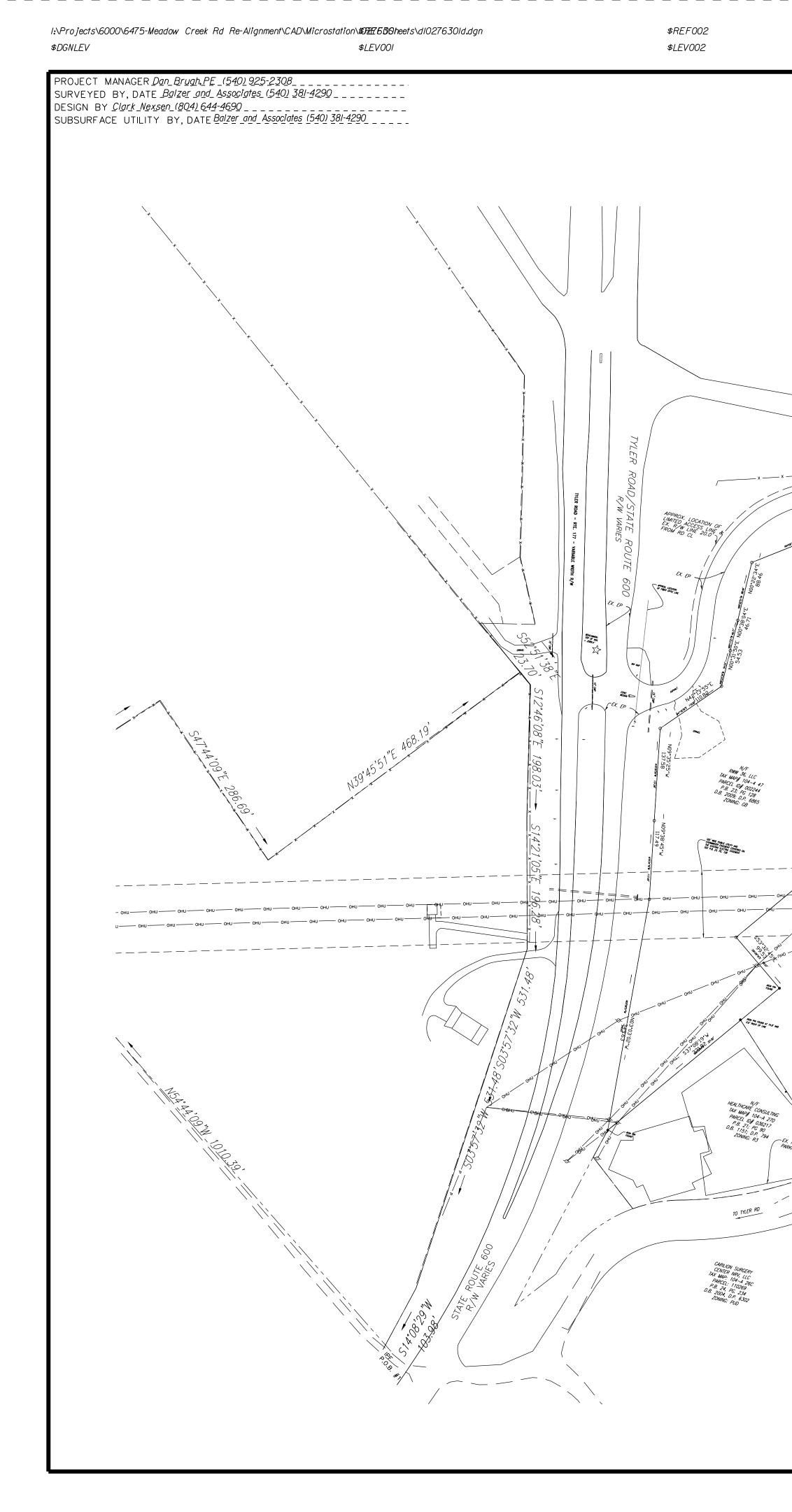
## PRELIMINARY RIGHT OF WAY DATA SHEET

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BASE MAPPING (VDOT MINIMUM PLAN PROJECT) WEADOW CREEK ROAD - RTE. 658 N72\*31'09'E N68\*55'02'E N76\* 83.30 #199718.79 11 407 83.30 #199718.79 11 POWER LINES 1AX MAPH 104-PARCEL 10H 216 D.B. 2007, D.P. 21 ZONING: 41 RCEL DJ 002244 2.B. 23, PG 128 2009, D.P. 128 ZONING, 6865 JUDSON H. YOUN TAX MAPY H. YOUN PARCEL DH 21675 D.B. 2007, D.C. 2538 ZONING, P. 2538 APPROX 15° CMP LOCATION OF APPROX PAVED DIFCH, D=8",OF MON Pay FOUND APPROX. EX. 30.0 LOCATION P.B. 16; PC. 709 P.B. 16; PC. 709 and an ar -----D COMMUNITY HOSPITAL, ONU TAX MAP. 10445PITAL, ONU - OHUSHRCEI. 009207 TOUND THIS - OHU - OHU -Praw y SEELEY IAX MADJ 104-A 271 PARCEI 104 8039 D.B. 2007; D.P. 128 2017; D.P. 128 RWN 17 TAX MAPH 34, LLC PARCEL 104-A 27A INSTH 10022749 ZONING: R3 <u>GENERAL NOTES:</u> 1. THE DATA PROVIDED DOES NOT REPRESENT A COMPLETE AND CURRENT BOUNDARY SURVEY OF THE PROPERTY SHO 2. THE INFORMATION SHOWN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO INFORMAT WHICH MAY BE DISCLOSED BY SUCH. ALL EASEMENTS AND ENCUMBRANCES MAY NOT BE SHOWN HEREON. 3. NO VISIBLE EVIDENCE OF GRAVES, STRUCTURES OR OBJECTS MARKING A PLACE OF BURIAL WERE FOUND AT THE OF THE FIELD SURVEY. SURVEYOR EXPRESSLY DISCLAIMS ANY LEGAL OR FINANCIAL RESPONSIBILITY FOR ANY GRAVE THAT WERE NOT DETECTED. 4. PROPERTY LIES IN F.E.M.A. DEFINED ZONE X (UNSHADED) AS SHOWN ON FIRM MAP NUMBER 51121C0210C (EFFEC DATE: SEPTEMBER 25, 2009). 5. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COST HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE

FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. CONTACT "MISS UTILITY" OF CENTRAL VA TOLL FREE 1-800-522-7001.

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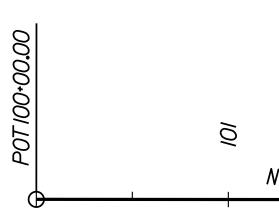
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PROJECT MANAGER <u>Dan\_Brugh, PE\_(540) 925-2308</u> SURVEYED BY, DATE <u>Balzer and Associates (540) 381-4290</u> DESIGN BY <u>Clark Nexsen (804) 644-4690</u> SUBSURFACE UTILITY BY, DATE <u>Balzer and Associates (540) 381-4290</u>

### MEADOW CREEK CONSTR. B

Point 1	N 3,563,	821.45 E	10,897,616.51	Sta 100+00.00
Course from 1 to	PC C1 N 75° 49' 1	1.70" E D	ist 315.00	
		Curve Da	ta *	
Curve C1 P.I. Station Delta = Degree = Tangent = Length = Radius =	104+86.53 54° 13' 37.23" 17° 06' 11.58" 171.53 317.06 335.00	N (LT)	3,563,940.63 E	10,898,088.2
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Curve C2 P.I. Station Delta = Degree = Tangent = Length = Radius =	66° 07' 19.46" 17° 06' 11.58" 218.06 386.61 335.00	N (RT)	^ 3,564,302.88 Е	10,898,231.5
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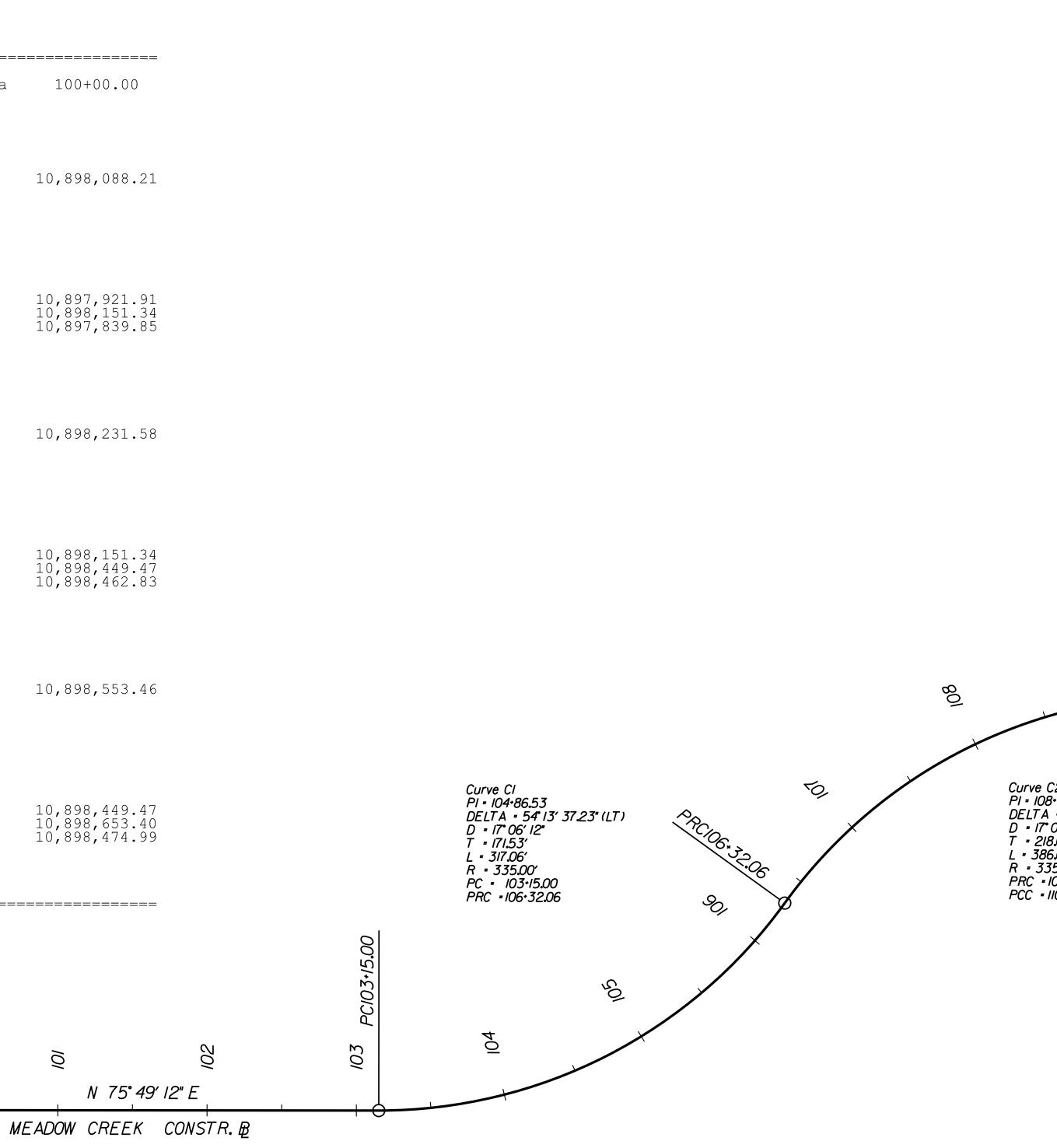
Ending chain MEADOW description



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CONSTRUCTION	ALIGNMENT	DATA	SHEET



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PROJECT MANAGER Dan Brugh, PE (540) 925-2308 SURVEYED BY, DATE <u>Balzer and Associates (540) 381-4290</u> DESIGN BY <u>Clark Nexsen (804) 644-4690</u> SUBSURFACE UTILITY BY, DATE Balzer and Associates (540) 381-4290



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT

TO BE USED FOR ANY TYPE

OF CONSTRUCTION OR THE



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### TEMPORARY TRAFFIC CONTROL PLAN

ACOUISITION OF RIGHT OF WAY.

#### <u>GENERAL NOTES</u>

Apply Transportation Management Plan Type "A", Category I

Work Zone Location - Sta. 100.00./- to Sta. 112.00./-

Length and Width of Work Zone - Two separate (200' L) X (20' W) zones

Project work will reduce Meadow Creek Road to a single lane for an intermediate duration duration while the tie-in areas are constructed, but traffic is unaffected otherwise.

Construction equipment and material storage shall be stored outside of the construction clear zone.

Not to exclude other standard layouts or modifications thereof, the following typical traffic control figures apply to the daily safety features employed by the Contractor:

TTC-4J Stationary Operation on a Shoulder

TTC-5. Shoulder Operation with Minor Encroachment

TTC-23, Lane Closure on a Two-Lane Roadway Using Flaggers

TTC-53.0 Signing for Project Limits

The Contractor shall notify each affected property owner at least 24 hours in advance of the start of any work that will require the temporary closure of access.

The major types of travelers impacted by the construction are local residents.

It is not the intent of this plan to enumerate every detail which must be considered in the construction, but only to identify the general activities necessary to provide the proper maintenance of traffic and sequence of construction.

The Contractor shall submit revised traffic control plans to the Engineer for approval prior to the beginning of any revised phase. The traffic control plan shall show all necessary traffic conrol devices including signs, pavement markings and channelizing devices.

The clear zone is to be free of stored materials and parked equipment. Horizontal and vertical sight distances shall not be impacted by parked construction equipment.

All areas excavated more than 2" below the pavement surface which public traffic is on and not protected by a positive barrier within the clear zone shall be backfilled to form an approximately 6: safety wedge desirable, 4: minimum (see Wedge Detail below) at the conclusion of each workday. All costs for placing, maintaining and removing the safety wedge shall be included in the price bid for other items in the contract and no additional compensation will be allowed.

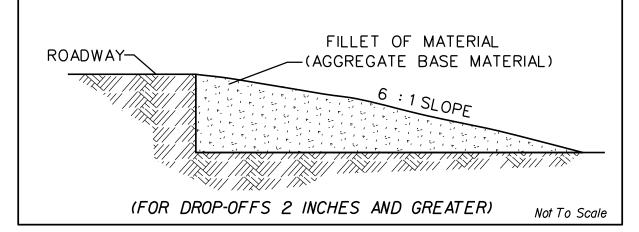
All traffic control devices and signs necessary for maintenance of traffic are to be provided, installed, maintained and removed by the contractor.

The Contractor shall be responsible for maintaining any existing signs, unless otherwise advised by the Engineer to remove or relocate.

During non-working hours, any signs that are not applicable to the existing conditions shall be covered from view of traffic or removed. Any signs that are not applicable to the existing traffic pattern in place shall be covered from view of traffic or removed.

The Contractor is responsible for coordinating the construction, signing and traffic management plan with other adjacent projects under construction.

6: PAVEMENT WEDGE DETAIL



## SEQUENCE OF CONSTRUCTION NARRATIV

#### PUBLIC COMMUNICATIONS PLAN

In the event of delay times exceeding the minimum established by the responsible District Traffic Engineer for lane closure periods notification shall be provided to the appropriate party as detailed below so that the public can be properly notified:

The Construction Project Manager shall be notified of scheduled work plans and traffic delays.

The Construction Project Manager, the Regional Operations Manager and the Public Affairs staff shall be notified of any unscheduled traffic delays.

The Contractor shall contact the Traffic Operations Center (TOC) 48 hours in advance of posting the PCMS stating the constructions start date. The TOC will develop and post all 511 messages.

Public Communications Contacts:

Construction Project Manager - TBD District Traffic Engineer - TBD Regional Operations Manager - TBD District Public Affairs Manager - TBD STOC - XXX-XXX-XXXX

TRANSPORTATION OPERATIONS PLAN

Due to road closure the Regional Transportation Operations (TOC) Center shall be reached as follows:

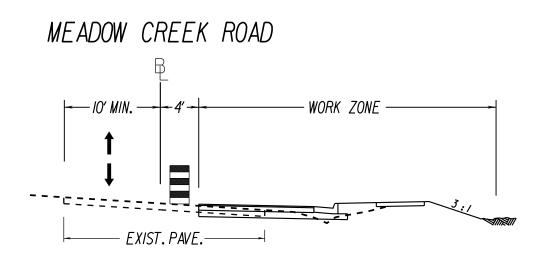
- I) In order for the 5II system and VA. Traffic to updated, the Contractor is to advise the VDOT project inspector and/or Construction Manager of planned road closure/lane closure a minimum of 24 hours in advance of the proposed closure.
- 2) The Contractor shall be responsible for keeping and maintaining a list of local emergency response agency contacts available throughout the project lifecycle.

3) Procedures to respond to traffic incidents that may occur in the work zone: a) Contractor to notify Virginia State Police and VDOT Inspector in charge and Regional Traffic Operation Center. b) Depending upon severity of incident, the Contractor may have to shut down work. c) Upon arrival on scene, Virginia State Police will determine the response necessary to

allow the traveling public around the incident. d) Inspector to notify the Area Construction Engineer of incident and take pictures as necessary, especially pictures of the Contractor's work zone to verify the proper setup. e) Construction Manager to coordinate notification to pertinent State and Local representatives.

- 4) The Virginia State Police will take control of the incident and direct its clearing and restoration back to normal traffic conditions.
- 5) The Virginia State Police report of the incident will be reviewed by the Residency Administrator to determine if any modification of the Temporary Traffic Control Plan is necessary. If it is determined that it is necessary, a meeting will be called with the Contractor, VDOT project personel, VDOT traffic safety representatives and the Virginia State Police (if necessary) to discuss modification and implementation of an improved traffic control plan.





#### SEQUENCE

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7. All construction Virginia Work Area MUTCD, the Stando Specifications and

8.The contractor proposed road/lan

9. The construction Engineer. It will be and/or temporary

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OF CONSTRUCTION NARR					
OF CONSTRUCTION NARRA struction entrance of f of Tyler Rd and and exit the site via construction entra	Meadow Creek	ng wet we	eather	n	
of construction vehicles shall be require The existing gravel area near the interse used as a staging area for equipment o	ection of Meado	w Creek	Rd and		
sewer and concrete ditch system asso		•			
oposed ditch that runs along the Barn F	Poad leading to	the evic	tion flat		
e regional detension basin.	-		-		
turnaround and cul-de-sac on Barn Ro					
oposed ditch and diversion dike from N to the regional detension basin.			-ungnineni	•	
roposed right-of-way.Topsoil shall be stoo designated for future use.	ckpiled and tem	nporarily	seeded if		
ed Meadow Creek Road from Sta.102+5 and mulched within 7 days after reachir		l slopes .	shall be		
sewer system from the Str.3-8 back	5 5				
ing the remaining tie-in portions of Mea om Str.3-1 to 3-2.Utilize Shoulder Opera					
rking on the roadside.					
ing construction into two phases utilizin th VDOT Regional Operations on the land om this intermediate duration work utili.	e closure policy	and wit			
scure exisiting Meadow Creek Rd pave out ditches as shown on plans.	ment,culverts,se	ections o	f paved		
rading,topsoil,permanently seed and mul	ch all remaining	g disturt	ed areas.		
OTES					
e performed in accordance with the curr	ent Manual of L	Iniform	Traffic		
UTCD), the 2016 Road and Bridge Spec , the 2011 Virginia Work Area Protection MUTCD,including each manual's subsequ	Manual, the 20	)  Virgini	а		
	enii i evisions, di	10 03 011	ecred by		
shall be approved by VDOT and the Engineers					
struction, it is the Contractor's responsit and proposed) necessary to provide posit to the construction activities.	ive drainage du	that all a Iring con	rainage struction		
sediment control measures and temporar new construction activity.	y drainage shal	ll be in p	lace prior		
all be a minimum of 10 feet wide.					
the project limits shall be done in accord lanual.These signs shall be installed on a or the duration of the project.	dance with the a all state maintai	2011 Virg. ined road	inia Work Iways ana	1	
signing shall be fabricated and installe a Protection Manual, the 2009 MUTCD, ard Highway Sign Manual, the 2016 Virg 1 the 2016 Virginia Road and Bridge Si	the Virginia Su ginia Road and	pplement			
's responsible for coordinating or provid	ding a traffic (	control pl	an for		
ne closures necessary for work within the n techniques employed by the Contractor the responsibility of the Contractor to p	are to be revie	wed by t	he	,	
travellanes. ng used during hours of darkness shal	l be directed a	way from	n all movir	ng	
		•		-	
mstances will concurrent construction let otherwise directed by the Engineer.	tana rigntot	any lane	OT TRATTIC	C	
				CLARKNEXSE	N N
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l:\Projects\6000\6475-Meadow	Creek Rd Re-Alignment\CAD\Microstation\#9776509heets\dl0276302.dgn
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PROJECT MANAGER <u>Dan\_Brugh, PE\_(540)925-2308\_\_\_\_\_</u> SURVEYED BY, DATE <u>Balzer and Associates (540) 381-4290</u> DESIGN BY <u>Clark\_Nexsen\_(804) 644-4690</u> SUBSURFACE UTILITY BY, DATE <u>Balzer</u> and <u>Associates</u> (540) 381-4290\_\_\_\_\_

### GRADING

G-1	The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.	Р
G-3	Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction. Payment will be made only for quantities actually moved.	
G-4	The cost of removal of all existing concrete items located in the area to be graded, including, but not limited to the following, shall be included in the price bid for regular excavation: sidewalks, curb & gutter, paved ditches, small footings, storm sewer pipe, inclets and concrete sign foundations	1-
G-6	The borrow material for this project shall be a minimum CBR 20 or as approved by the Materials Engineer.	
	DRAINAGE	1-
D-1	The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.	I-9 I-1
D-2	The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If during construction, it is found that the horizontal location or invert elevations shown on the plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Engineer shall confer with, and get approval from, the applicable District Drainage Engineer before installing the culvert or storm sewer outfall pipe.	- <sup>,</sup>
D-3	The "H" dimensions shown on plans for drop inlets and junction boxes and the "L.F." dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "L.F." dimensions are to be determined by the contractor from field conditions.	- <sup>-</sup>
D-6	Pipes shall conform to any of the allowable types shown on sheet 5, within the applicable height of cover limitations. For strength, sheet thickness, or class designation; available sizes; height of cover limitations; and other restrictions for a particular pipe type or height of cover, see the VDOT <u>Road and Bridge Standard</u> PC-1. Structural plate pipe may be substituted for corrugated pipe of the same size, provided the substitution complies with the applicable sections of the VDOT <u>Road and Bridge Standards</u> PC-1.	
D-11	The proposed granular filter blanket for the proposed riprap may be omitted by the Engineer if the slope on which it is to be placed is found to be comprised of material which is coarser than that specified for the proposed granular filter blanket.	1-2
D-12	All existing drainage facilities labeled "To Be Abandoned" shall be left in place, backfilled and plugged in accordance with the VDOT <u>Road and</u> <u>Bridge Standard</u> PP-1. Basis of Payment will be C.Y. of Flowable Backfill.	
D-13	Existing drainage facilities being utilized as a part of the drainage system, and designated on the plans "To Be Cleaned Out" shall be cleaned as directed by the Engineer. The cost incidental to this shall be included in the contract price for other items.	1-2
D-14	Proposed drop inlets with a height (H) less than the standard minimum shown in the VDOT <u>Road and Bridge Standards</u> shall be considered and paid for as Standard Drop Inlets for the type specified. Pipes with less than standard minimum finished height of cover shall be noted as such in the drainage description for the pipe. Specific pipe bedding and cover requirements are provided in the applicable PB-1 and PC-1 standard drawings of the VDOT <u>Road and Bridge Standards</u> .	
D-16	When CG-6 or CG-7 is specified on a radius (such as at a street inter- section), the Engineer may approve a decrease in the cross slope of the gutter to facilitate proper drainage.	
	St'd. SL-1 Safety Slab locations are based on the assumed use of precast structures. If cast-in-place structures are utilized, and the interior chamber dimensions (length and width, or diameter) are less than 4 feet, the safety slabs shall not be installed.	

# GENERAL NOTES

### PAVEMENT

The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.

### INCIDENTALS

- That portion of the right of way lying within the Clear Zone or within a minimum of 10 feet from the edge of pavement or surfacing or within the limits of the construction slopes beyond 10 feet, shall be cleared and grubbed in accordance with the applicable VDOT Road and Bridge Specifications, Section 301, where sufficient right of way or construction easement is provided.
- Where Standard slope roundoffs would damage trees, bushes or other desirable vegetation, they shall be omitted when so ordered by the Engineer.
- When no centerline alignment is shown for a proposed entrance, the entrance shall be constructed in the same location as the existing entrance.
- St'd. RM-2 right of way monuments shall be set by the Contractor.
- The "underground utilities" survey data on this project has been provided by consultant and copies are available from the Department.
- All pavement markings and traffic flow arrows shown on the roadway con-struction plans are schematic only. The actual location and application of pavement markings shall be in accordance with Section 704 of the applicable VDOT Road and Bridge Specifications, MUTCD, sequence of construction/ traffic control plans, pavement marking plan sheets 7(1) thru 7(3) and as directed by the Engineer.
- The following outside sources, under contract with VDOT, have provided information on this project.

Hydraulic Design- Clark NexsenRoadway Design- Clark NexsenUtility Design- N/AUtility Designation- Balzer and AssociatesUtility Location- Balzer and AssociatesSurvey- Balzer and AssociatesBridge Design- N/ATraffic Design- Clark NexsenLandscape Design- N/A
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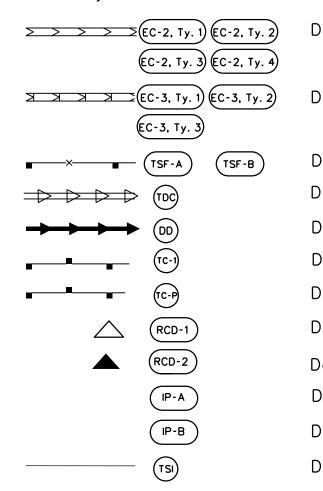
If questions or problems arise during construction, please contact the Area Construction Engineer. DO NOT CONTACT THE OUTSIDE SOURCES.

- The Official Electronic PDF Version of the plans willoverride the paper copies or prints of specific layers.
- Portions of this plan assembly have been CADD generated. To assist in the preparation of the bid and construction of the project, Microstation format (.dgn) files will be made available to the prime contractor during bids and after award of the contract.
- All electronic plan assemblies will include the construction plans in two formats: PDF files and MicroStation format (.dgn) files. Only the PDF files will be considered as part of the official plan assembly.

The MicroStation format (.dgn) files are furnished only as information for the contractor. These plans are developed in layers (levels) to aid in readability. (See the VDOT CADD Manual for CADD Level Structure). However, the construction items may or may not be in the proper layering scheme as described in the VDOT CADD Manual. The Microstation files will only match the scanned files if all required levels are turned on. A Microstation Software license is required to be able to read these files.

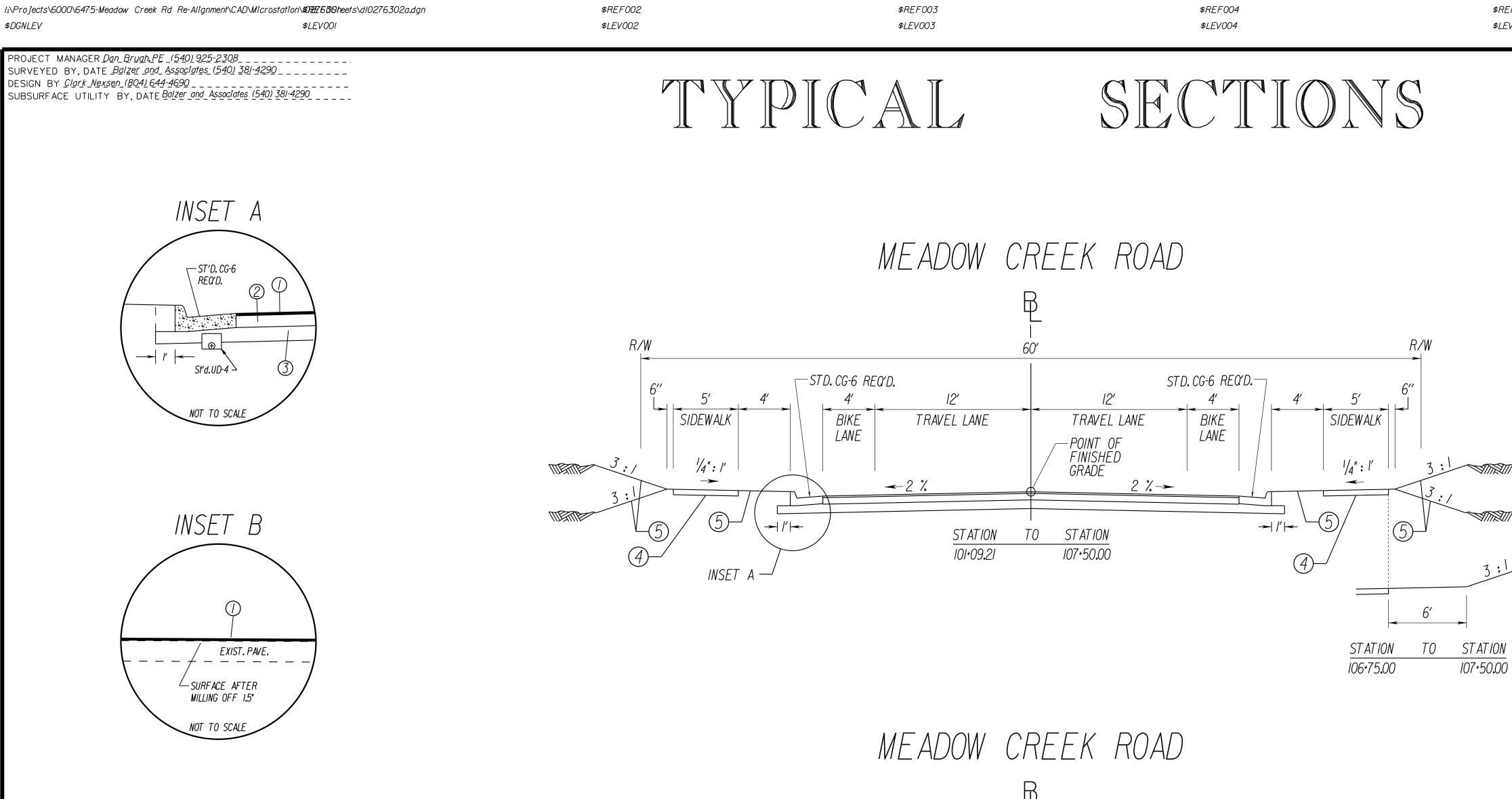
## EROSION AND SEDIMEN

- E-1 If the removal of Brush Silt Barrier is by the Engineer, the cost of removal with Section 109 of the applicable VDC
- E-2 Rock for Check Dams, Inlet Protection and Riprap shall be in accordance with of the applicable VDOT Road and Brid
- E-3 The following symbols are used to de plan assembly:



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NT CONTROL	(ESC)							
is specified by the plans al and disposal of brush VDOT <u>Road and Bridge</u>	shall be in accordanc	e						
tion, Erosion Control Sto with Section 203 and Se Bridge Specifications.	one ection 414							
depict Erosion Control i	tems in the							
Denotes Rolled Erosion	Control Product, Tem	porary,	St'd. E	C-2 Type 1, 2, 3 or 4				
Denotes Rolled Erosion	Control Product, Pern	nanent,	St'd. E	C-3 Type 1, 2 or 3				
Denotes Temporary Sil Denotes Temporary Div	-		or B					
Denotes Temporary Div								
Denotes Turbidity Curt								
Denotes Turbidity Curt								
Denotes Rock Check D	Denotes Rock Check Dam, Type 1; St'd EC-4							
Denotes Rock Check D Denotes Inlet Protectio								
Denotes Inlet Protection								
Denotes Slope Interrup	-							
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				PROVED AND ARE NO <sup>.</sup> ED FOR ANY TYPE	Г			
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## PRIVATE AND COMMERCIAL ENTRANCES

NOT TO SCALE

TYPE I Crusher Run Aggr. 

> 6" Crusher Run Aggr. 25 or 26

> > TYPE III Asphalt

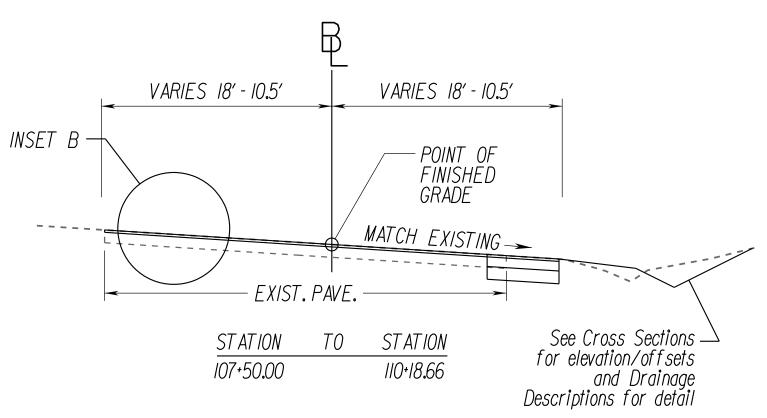
Asphalt Conc.Type SM-9.5A @ 165 Lbs. per S.Y. 4" Aggr. Base Mat'l. Ty. I No. 21B

TYPE II

Concrete Concrete Entrance Pavement 7" HES 4" Aggr. Base Mat'l. Ty. I No**.** 21B

> type N Asphalt Commercial

Asphalt Conc. Type SM-9.5A @ 165 Lbs. per S.Y. 4" Asphalt Conc. Base Course BM-25.0 6" Aggr. Base Mat'l. Ty. I No. 21B



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		TION AND	) CONTRO HANGE A		1
Schnabel Richmond, Virginia MATERIALS ENGINEER				I PLANS	
	AN TC OF	ID UN ) BE CON	APPR( USED STRU(	S ARE UNFINISHED OVED AND ARE NOT FOR ANY TYPE CTION OR THE OF RIGHT OF WAY.	
STATI					

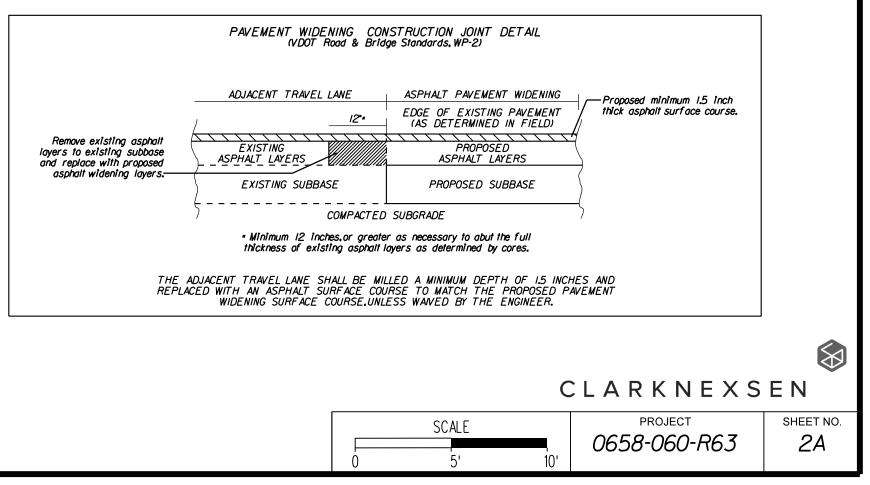
## PAVEMENI LEGEND

- ASPHALT CONCRETE, TYPE SM-9.5A @ 165 LBS./SQ.YD. ()
- (2)6" ASPHALT CONCRETE BASE COURSE, TYPE BM-25.0A
- $(\overline{\mathcal{Z}})$ 8" AGGREGATE BASE MATERIAL, TYPE I, NO. 21-B
- (4)4" HYDRAULIC CEMENT CONCRETE SIDEWALK
- (5)4" TOPSOIL CLASS A AND SEED

NOTES:

EXISTING PAVEMENT SHALL BE MILLED A DEPTH OF 1.5" IN AREAS UNDERNEATH PROPOSED PAVEMENT.

FOR BARN ROAD, UTILIZE THE TYPE IV COMMERCIAL PAVEMENT SCHEDULE.



\$REF002

\$LEV004 \$DGNLEV \$LEV002 PROJECT MANAGER <u>Dan\_Brugh, PE\_(540) 925-2308\_\_\_\_\_</u> STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET SURVEYED BY. DATE <u>Balzer and Associates (540) 381-4290</u> DESIGN BY <u>Clark Nexsen (804) 644-4690</u> SUBSURFACE UTILITY BY, DATE Balzer and Associates (540) 381-4290 The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater THES From Construction Activities (the VPDES Construction Permit) issued July 1, 2014 and VDOT's approved AnnualESC and SWM Standards and Specifications. AND The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an ТО В area equal to or greater than 10,000 square feet, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act. OF C ACOU The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.  $\times$  12. The name of the individual(s) responsible for the inspection of the erosion an SECTION I GENERAL INFORMATION sediment control and pollution prevention measures on this land disturbance (cons activity is identified on the LD-445E form which will be maintained with the other documents for this land disturbance (construction) activity (Note: Individual(s) shal 1. Activity Description - This project will re-align and improve Meadow Creek Road from the intersection of Tyler Road east for 0.17 miles. certified through the DEQ ESC Inspector Certification Program and shall be know in the area of pollution prevention at construction sites and shall be a VDOT emp 2. This land disturbance (construction) activity site is located in the Montgomery County agent working for VDOT.) and approximately 2.69 acres will be disturbed by excavation, grading or other construction X 13. The ESC and P2 inspections for this land disturbing (construction) activity activities. follow either Schedule 1 or 2 as defined in Section 107.16(e) of the VDOT Road 3. This proposed activity disturbs one acre or greater and requires coverage under the Bridge Specifications Special Provision S107J31. Rain gage notes apply only to VPDES General Permit For Discharges Of Stormwater From Construction Activities Inspection Schedule 1. (the VPDES Construction Permit) as issued by the DEQ. A copy of the VPDES Construction Permit (VAR10), the registration information (LD-445 form) and the XX 14. The location of the on-site rain gage that will be used to determine the occu permit coverage letter received from DEQ shall be maintained with other SWPPP measurable storm event for the purposes of ESC and Pollution Prevention inspe documents for this land disturbing (construction) activity. be provided by the contractor and identified on the record set of plans or in o appropriate SWPPP documents for this land disturbance (construction) activity: XX 4. The location of on-site support facilities that will be covered under the VPDES Construction (List location of rain gage) Permit coverage for this land disturbance (construction) activity shall be provided by the contractor and identified on the record set of plans or in other appropriate contract documents. The rain gage shall be observed daily at (insert time) to determine the occurrent Support facilities shall include, but not be limited to, borrow and disposal areas, construction and measurable storm event (i.e., 0.25 inches of rainfall or greater in a 24 hour per waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling book shall be maintained to record observation information which shall include (1) areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste (2) the time, (3) whether or not rainfall is occurring at the time of the observation facilities and any other areas that may generate a stormwater or non-stormwater discharge amount of accumulated rainfall in the gage, if any, and (5) whether or not an inspe directly related to the construction site. required based on the amount of accumulated rainfall in the gage. If there is no rainfall occurring at the time of the observation, the observation in XX 5. Evidence of permit coverage shall be provided by the contractor for all support activities shall be noted in the log book and the rain gage emptied and replaced. An inspe located outside of VDOT right of way or easement in the form of the Construction General required if there is 0.25 inches or more accumulation noted in the rain gage. Permit coverage letter: (List permit number when applicable) If there is rainfall occurring at the time of the observation, the observation infor 6. List the surface waters that have been identified as impaired in the DEQ 2012 305(b)/303(d) to be noted in the log book. The rain gage is not to be emptied but left to acc Water Quality Assessment Integrated Report for sediment, total suspended solids, turbidity, additional rainfall until the conclusion of the rainfall event. At the conclusion of the nitrogen or phosphorus. These pollutants are considered benthic impairments: event, an observation of the rain gage shall be made and the observation inform None be noted in the log book and the rain gage emptied and replaced. An inspection if there is 0.25 inches or more accumulation noted in the rain gage. 7. Identify the TMDLs where stormwater from construction activities discharges into a watershed 15. The following VDOT documents serve the purpose of a) permitted projects with a TMDL waste load allocation established and approved by the State Water Control Board prior b) non-permitted projects in Chesapeake Bay Preservation Areas (CBPA) with 2. to July 1, 2014 for sediment, total suspended solids, turbidity, nitrogen or phosphorus: to 1.0 acre of land disturbance c) non-permitted projects requiring a SWPPP a None d) Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP: VDOT LD-445: Permitted projects, CBPA projects and Non-permitted, 8. This land disturbance (construction) activity discharges stormwater to the following surface waters that have been identified as exceptionalin Section 9VAC25-260-30 A 3 c with BMP projects that have a water quantity BMP. VDOT LD-445A: Permitted projects only. of the Virginia Administrative Code: VDOT LD-445B: Permitted projects only. None VDOT LD-445C: Projects that require a permit or SWPPP. VDOT LD-445D: Permitted projects, CBPA projects and Non-permitted, 9.Locations of surface waters and locations where concentrated stormwater is discharged from this land disturbance (construction) activity are identified in the construction plan with BMP projects that have a water quantity BMP. VDOT LD-445E: Permitted projects only. set (or other such documents) for this land disturbance (construction) activity. VDOT LD-445F: Emergency work projects (when applicable). VDOT LD-445G: Permitted and CBPA projects requesting a Water Qual 10. The ESC and SWM plans (where applicable) for this land disturbance (construction) Requirement Exception (when applicable). activity have been developed in accordance with VDOT's Annual Erosion and Sediment VDOT LD-445H: Permitted projects only. Control and Stormwater Management Standards and Specifications as approved by the DEQ. VDOT C-107 Part I and Part II: All projects that require a permit or SW 11. (a) List the RLD for the land disturbance activity: (required for erosion and sediment control) SECTION II EROSION AND SEDIMENT CONTROL (b) The following individual(s) has delegated authority to sign all reports required by the construction permit including the SWPPP (LD445E) and inspection reports. The individual(s) has overall responsibility 1. The following variances to the Virginia ESC Regulations have been approved b for environmental matters for the project: (required only for permitted projects) DEQ for this land disturbance (construction) activity: None Name Position XX 2. The intended sequence and timing of activities that disturb soils at the site (e.g., grubbing, excavation, grading, utilities and infrastructure installation, etc.) shall be provided by the contractor in accordance with Section 108.03 of the VDOT R&B Specifications and shall be included with the other SWPPP documents for this land disturbance (construction) activity. 3. Directions of stormwater flow and approximate slopes anticipated after major grading activities are identified in the construction plan set (or other such docur for this land disturbance (construction) activity. 4. Areas of soil disturbance and areas of the site which will not be disturbed are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

5. Locations of major structural and nonstructural ESC measures intended to filte settle or similarly remove sediment are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

6. Locations where stabilization practices are expected to occur are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

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	See S	Sheet 2 of 3 for Acronyms	REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
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				-			01.
nd struction) r SWPPP II be	identified in th Section III.	on of interim and permanent he applicable sections of the	documents i	identified	d in the	e Note 1 of	
vledgeable ** ployee or an shall	temporarily or are initiated w of plans or ot	of the dates when major grad r permanently cease on a po will be provided by the contro ther SWPPP documents for the will be tracked and the loca	ortion of the actor and ma his land distu	site, and pintained	d when d with t	stabilization measures the record set	
& urrence of a	sediment contr	on and schedule of procedure rolmeasures and other prote aditions are identified in Secti ations.	ective measur	res in g	good an	nd effective	
ections will ther		shallbe applied in accordance Ige Specifications. Nutrients s					
nce of a riod). A log the date,	measures prop project drainac	ng calculations supporting the posed for this land disturban ge file located in the VDOT de available for review upon	ice (construct Salem Distric	tion) act ct Hydro	tivity a aulics S	ire contained in the Section	
on, (4) the pection is	disturbing (con erosion and se	rary erosion and siltation con nstruction) activity are intend ediment within the project lim lan development and an assur	ded to provid nits. The ESC	de a ger Plan is	neral pla based	an for controlling on field conditions at	
ection is	contractor, in the location, qu	conjunction with the VDOT P quantity and type of erosion nditions encountered at the t	Project Engine and sediment	eer and/ t contro	/or ESC olitems	C Inspector, shall adjust required based on the	
mation is cumulate rainfall nation shall n is required	(e.g., those the Hydraulics Englished on the	the construction activities. S nat require an engineering and gineer for review and approve the designated record set of ailable upon request during no	alysis) shall be al. Any change plans which	e submit es to th shall be	tted to he prop retaine	the applicable District posed ESC Plan must	
.500 S.F. nd	Perimeter cont	beyond the project's constructions such as silt fence, diver to any grubbing operations of	rsion dikes, tu	urbidity	curtain	is, etc. shall be	
Non-CBPA	upon installatio	earthen structures such as on. Stabilization may include t and/or soil stabilization blanke	temporary or	permar	nent se	eding, riprap, aggregate,	
, Non-CBPA	and shallbe co be constructed	relocations are to be constru onstructed in accordance wit d in the dry wherever possib s redirected through the cons	th all applicable ple. Stabilizatio	le permi on or ve	it requir egetatio	rements and shall on shallbe established	
olity.	a. Contro to mini	octor shallplan and implement olthe volume and velocity of nimize erosion.	f stormwater	runoff v	within tl	he site	
PPP.	to mini c. Minimiz	ol the peak flow rates, volume nimize erosion at outlets and ze the amount of soil exposed ze the disturbance of steep	in downstrea d.	•		er discharges	
by the	e. Minimiz f. Provide runoff g. Minimiz	ze sediment discharge from le and maintain natural buffers to vegetated areas and may ze soil compaction (except in e contract documents) and pr	the site. s around sur ximize storm those areas	water in where	filtratio compa	on, unless infeasible. ction is required	
ЖЖ	maintenance o	of the individual(s) or contrac of the erosion and sediment o d maintained with the other S activity.	control measu	ıres sha	llbe su	pplied by the	
ments)		iles temporarily placed within shall be stabilized or protected				- ·	
er,	construction ve the transport of transported or end of each w	ction entrance or other approvehicular traffic access route of sediment by vehicular trac nto a paved or a public roac vork day by shoveling or swe ith Section 106.04 of the R&I	es intersect a cking onto th d surface, the eeping. Remov	i paved ne paved e road s ved sedi	or a p d surfa shall be	public road in order to minim ice. Where sediment is a cleaned thoroughly at the	nize
n						CLARKNEXSE	
Rev	ised 09/2	9/16 Sheet 1 of	3				SHEET NO. <b>2F(1)</b>

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PROJECT MANAGER Dan\_Brugh, PE\_(540) 925-2308\_\_\_\_\_ SURVEYED BY, DATE <u>Balzer and Associates (540) 381-4290</u> DESIGN BY <u>Clark Nexsen (804) 644-4690</u> SUBSURFACE UTILITY BY, DATE Balzer and Associates (540) 381-4290

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2014 and VDOT's approved AnnualESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an

TO BE USED FOR ANY TYPE area equal to or greater than 10,000 square feet, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act. OF CONSTRUCTION OR THE The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the ACOUISITION OF RIGHT OF construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity. SECTION IV POST CONSTRUCTION STORMWATER MANAGEMENT SECTION III SWPPP Choose the appropriate note 1 or 2 that is applicable to the proposed post construction 1. All documents related to the SWPPP for this land disturbance (construction) SWM Plan for this land disturbance (construction) activity. (Delete, strikethrough or mark activity shall be maintained at the activity site and shall be readily available for as NA those notes not applicable.) review upon request during normal business hours. Such documents include, but are not limited to, the construction plans (or other such documents), the ESC Plan, the Pollution Prevention Plan, the post construction SWM Plan (if applicable), the 1. This land disturbance (construction) activity is grandfathered under Section VDOT R&B Standards and Specifications, Supplemental Specifications, Special 9VAC25-870-48 of the VSMP Regulations and utilizes the Part IIC technical Provisions and Special Provision Copied Notes. Documents related to stormwater criteria (i.e., Performance or Technology Based, MS 19, etc.) in Section 9VAC25pollution prevention which are not a part of those documents referenced above, 870-93 et.seq. of the VSMP Regulations. such as a copies of the VPDES Construction Permit coverage letter (when applicable) and the VPDES General Permit For Discharges Of Stormwater From Construction Activities (when applicable) and those required to be developed by 2. This land disturbance (construction) activity utilizes the Part IIB technical criteria the contractor for pollution prevention associated with any on-site support (i.e., Runoff Reduction Method, Energy Balance Equation, etc.) in Section facilities being included in the VPDES Construction Permit coverage for this land 9VAC25-870-62 et seq. of the VSMP Regulations. disturbance (construction) activity are to be maintained at the activity site with the other SWPPP documents for this land disturbance (construction) activity. Where 3. An exception for (number) pounds of phosphorus removal has been granted for no facilities are available at the activity site to maintain the SWPPP documents, this land disturbance (construction) activity by the DEQ in its letter dated (date). they are to be kept by or with the designated RLD at a location convenient to the activity site where they would be made available for review upon request during 4. The following exceptions to the Water Quantity criteria of the VSMP Regulation have normal business hours. been approved by the DEQ for this land disturbance (construction) activity: None 2. The SWPPP and any subsequent amendments, modifications and updates shall be 5. The permanent onsite SWM facilities or offsite strategies proposed to meet the implemented from commencement of land disturbance until termination of VPDES water guality/guantity requirements for this land disturbance (construction) activity Construction Permit coverage or completion of land disturbance (construction) are listed in Section VI. activities where no VPDES Construction Permit coverage is required. 6. A description of all post-construction stormwater management measures that will **XX** 3. For all on-site support facilities that will be included in the VPDES Construction be installed during the construction process to control pollutants in stormwater Permit coverage for this land disturbance (construction) activity, the contractor discharges after construction operations have been completed is included in the shall develop a SWPPP in accordance with, but not limited to, Section 106.08, construction plan set (or other such documents) for this land disturbance 107.02 and 107.16 of the VDOT Road and Bridge Specifications. The SWPPP for (construction) activity. the on-site support facilities shall be maintained with and become a component of the SWPPP for this land disturbance (construction) activity. Support facilities 7. All engineering calculations supporting the design of the post-construction shall include, but not be limited to, borrow and disposal areas, construction and stormwater management measures for this land disturbance (construction) activity, waste material storage areas, equipment and vehicle washing, maintenance, including an explanation of the technical basis used to select the practices, are storage and fueling areas, storageareas for fertilizers, fuels or chemicals, concrete contained in the project drainage file located in the VDOT Salem District wash out areas, sanitary waste facilities and any other areas that may generate a Hydraulics Section and will be made available for review upon request during stormwater or non-stormwater discharge directly related to the construction site. normal working business hours. SECTION V - POLLUTION PREVENTION PLAN  $\mathbf{X}$  4. By completing and submitting the SWPPP Certification form LD-445E, the RLD, or his authorized representative, certifies that all documents identified herein to be 1. The following non-stormwater discharges from this land disturbing (construction) supplied by the contractor will be reviewed, approved (as applicable) and activity and any on-site support facilities are prohibited: included with the other SWPPP documents for this land disturbance (construction) a. Wastewater from concrete washouts. activity prior to start of work in those areas identified by such information. b. Wastewater from the washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials. 5. For those land disturbing (construction) activities requiring coverage under the c. Fuels, oils or other pollutants used in vehicle and equipment operation and VPDES Construction Permit, the SWPPP shall be made available for review upon maintenance. the request of the DEQ, the EPA, the VSMP Authority, the VESCP Authority, d. Oils, toxic substances or hazardous substances from spills or other releases. local government officials or the operator of a municipal separate storm sewer e. Soaps, solvents or detergents used in equipment and vehicle washing. system (MS4) receiving discharge from the construction site. f. There shall be no discharge of floating solids or visible foam in other than trace amounts  $\mathbf{X}$  6. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the VDOT RLD shall post, or have posted, a copy 2. The following non-stormwater discharges from this land disturbing (construction) of the General Permit coverage letter and a copy of a completed LD-445A form, activity and any on-site support facilities are allowed when discharged in noting the name and contact information for the VDOT person responsible for the compliance with the VPDES Construction Permit: land disturbing (construction) activity and its SWPPP, outside the project's a. Discharges from fire fighting activities. construction office along with other Federal and State mandated information. b. Fire hydrant flushings. Where there is no construction office (e.g., a maintenance activity), the permit c. Waters used to wash vehicles or equipment where soaps, solvents or coverage letter and the LD-445A form are to be maintained with the other detergents have not been used and the wash water has been filtered, settled SWPPP documents for the land disturbing (construction) activity. or similarly treated prior to discharge. d. Water used to control dust that has been filtered, settled or similarly 7. The SWPPP shall be made available for review by the public upon request. Such treated prior to discharge. reviews shall be at a time and publicly accessible location convenient to the e. Potable water sources including uncontaminated waterline flushings. VDOT and shall be scheduled during normal business hours and no less than once f. Routine external building wash down where soaps, solvents or detergents per month. have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.

#### ACRONYMS

TMDL - Total Maximum Daily Load VDOT - Virginia Department of Transportation VPDES - Virginia Pollutant Discharge Elimination VSMP - Virginia Stormwater Management Progro VESCP - Virginia Erosion and Sediment Control

## STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

on System ram olProgram

### Revised 09/29/16 Sheet 2 of 3

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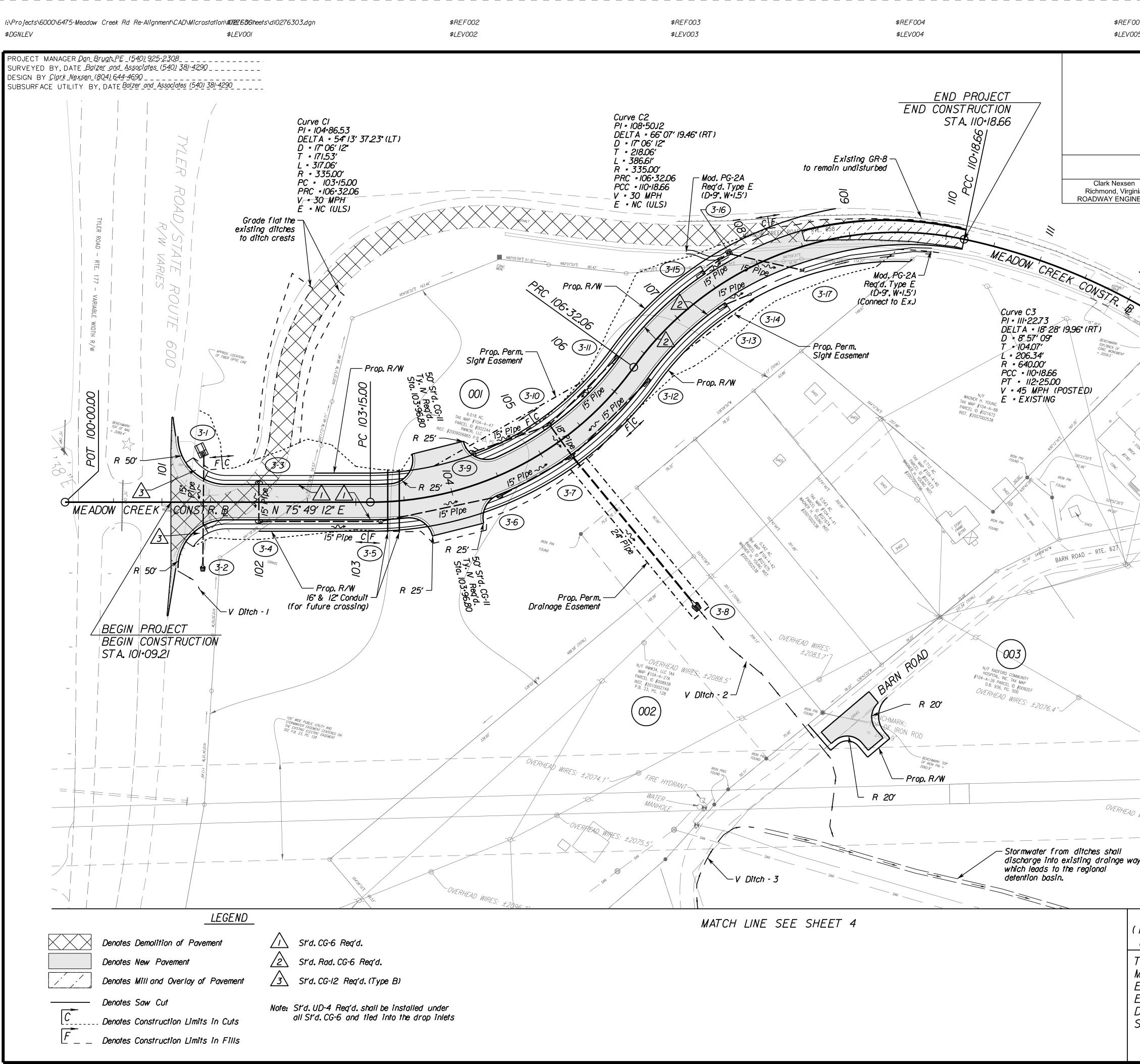
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							CLARKNEXSE	N
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The information contained in the SWPP comply with the requirements of the V Stormwater From Construction Activitie July 1, 2014 and VDOT's approved Annu The SWPPP General Information sheets construction plan set (or other such do activities that disturb an area equal to or greater than 2,500 square feet in t Virginia Chesapeake Bay Preservation A	PDES General Permit For es (the VPDES Construct ual ESC and SWM Standar are to be completed an ocuments) for land disturt or greater than 10,000 s the area defined as Tidey	Discharges Of tion Permit) issued rds and Specifications. Id included in the bance (construction) square feet, or equal to	she cor sha land	ets is updated/ struction phase III be maintained	revised as necessar of the land disturb	ormation shown on the SWPPP G ry in order to reflect changes th ing (construction) activity. The up d record set of plans (or other s 7.	at may occur dated/revised	during the sheets	THESE PLA AND UNAPI TO BE USI OF CONSTI ACOUISITIO
			SECT	ION VI -	PERMANENT	BMP INFORMATION 2	7		
					on that is to be con erenced by number i	mpleted by the VDOT RLD. in parentheses.			
					INSTALLED BMP IN Table A (VDOT Owned/C	A			
	BMP Type Table 1 and 3 )	County or City	Latitu	ide/Longitude (1)	State Hydrologic Unit Code (7)	Receiving Stream Name (2)		Name of Impaired Water (9)	Acres Treate (3)
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N/A **Extende	ed Detention Basin	Montgomery	37.093	-80.502	NE59	Meadow Creek			See approved
BMP Type (See Table 2 )	Name of Nutrient Credit	County or	ble B	Longitude	State Hydrologic Unit Code	Project Acres Treated Per BMP (3)		(lbs./acre/year)	Table 1: Permaner Bio-Retention Basi Bio-Retention Filte Constructed Storr
(See Toble 2)	Generating Entity (6)	City (5)	LAT	LONG	(5) (7)	Impervious Pervious	TOTAL	•	Extended Detentio Extended Detentio Grassed Swale Infiltration Basin
									Retention Basin II Retention Basin III
									Vegetated Filter S Other Approved Ty
NOTES:				ist the name of	f any impaired water	r to which the BMP discharges.	∧ Anv	 chanaes to the propos	ed SWM Plan or BMPs r
<ul> <li>(1) In decimal degrees to the nearest o</li> <li>(2) For streams with no names, list "(U</li> <li>(3) Show acres treated to the nearest</li> <li>(4) Include agreements with off-site BN</li> </ul>	Innamed Tributary to clo t one tenth acre.	-	T li A t b	The determination sted as impaire Assessment Inter o which the BM by sediment, tot	on of impaired water ed in the DEQ 2012 grated Report and s IP discharges. The ir	shallbe based on those streams 305(b)/303(d) Water Quality shallbe the first named waterbody mpaired waters are those impaire turbidity, nitrogen or phosphorus.	s of t , show d appr and	he project that affects wn in the BMP Tables A ropriate VDOT District H Yor B are to be formall	the proposed construct and/or B shallbe coord ydraulics Engineer. The y revised to reflect any
<ul><li>(5) Information pertains to the alternal Exception - Not required for nutrier</li></ul>	tive BMP option location,			BMP Maintenanc	e ID Number is to t	pe assigned by the District ermination or project completion.	in a sign	ccordance with the Roaded and sealed in accord	d Design Manualand the Jance with Department's
(6) Applies to the purchase of nutrient					ance manual that pertains to be found at www.vdot.virginia.gov	Roo		Prior to submitting for t	
<ul><li>(7) Virginia 6th Order HUC (VAHU6) Ex</li><li>(8) Final approved shop drawings of Ma included with the BMP information s</li></ul>	nufactured Treatment De		b E c	ousiness/manual xample: Section and inspection n	s in the Maintenance 4 would be noted nanuals for a Bioreto	e selections. for both the maintenance ention I infiltration BMP.	have proj Main	e the District Maintenar ject (BMP Table A) for a itenance ID number for a	ice Infrastructure Manag icceptance of maintenan each BMP listed in BMP
			(12)	Nutrient credits	purchased to the r	nearest one hundredth pound.	date only	rmation in BMP Tables A e that the BMP became ) to complete the LD-4 mitting for termination o	functional as a permane

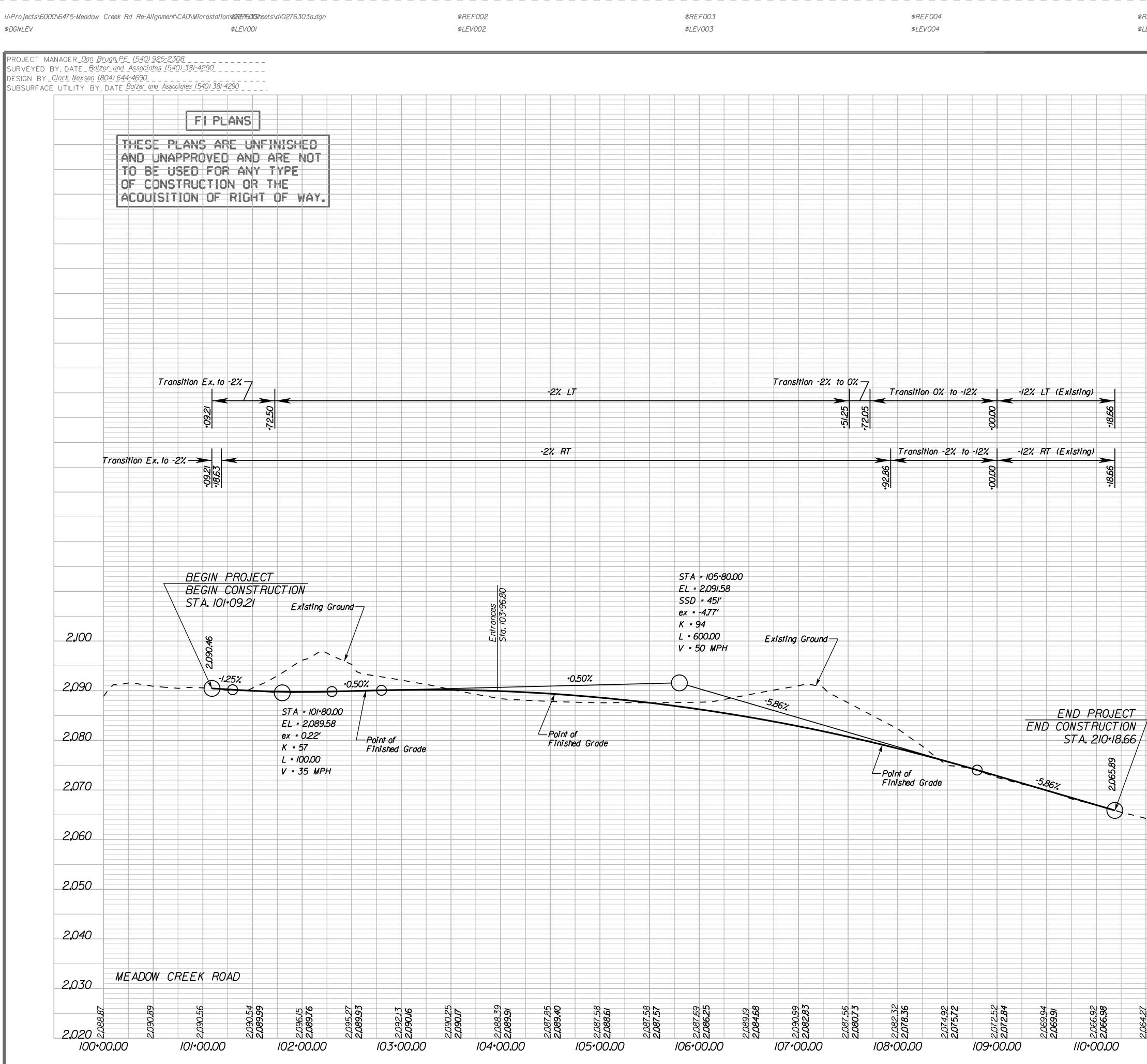


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itude ONG	State Hydrologic Unit Code (5) (7)	Project Acres Treated Per BMP (3) Impervious Pervious	TOTAL	Nutrient Credits (Ibs./acre/year) Acquired (6) (12)	<u>Table 1: Permanent BMP Types (1999 Va.</u> Bio-Retention Basin Bio-Retention Filter Constructed Stormwater Wetlands Extended Detention Basin Extended Detention Basin Extended Swale Infiltration Basin Infiltration Trench	<u>SWM Handbook)</u>	Pollutant Loa Purchase of Other Approv <u>Table 3: Per</u>	ve SWM ding Pro Nutrient ed Optic <u>manent f</u> o Vegete el Amendm	Plan (Regional) Facility Rata Share Program s Credits ons (List Type) (4) <u>BMP Types (BMP Clearing</u> ated Filter Strip	g House)
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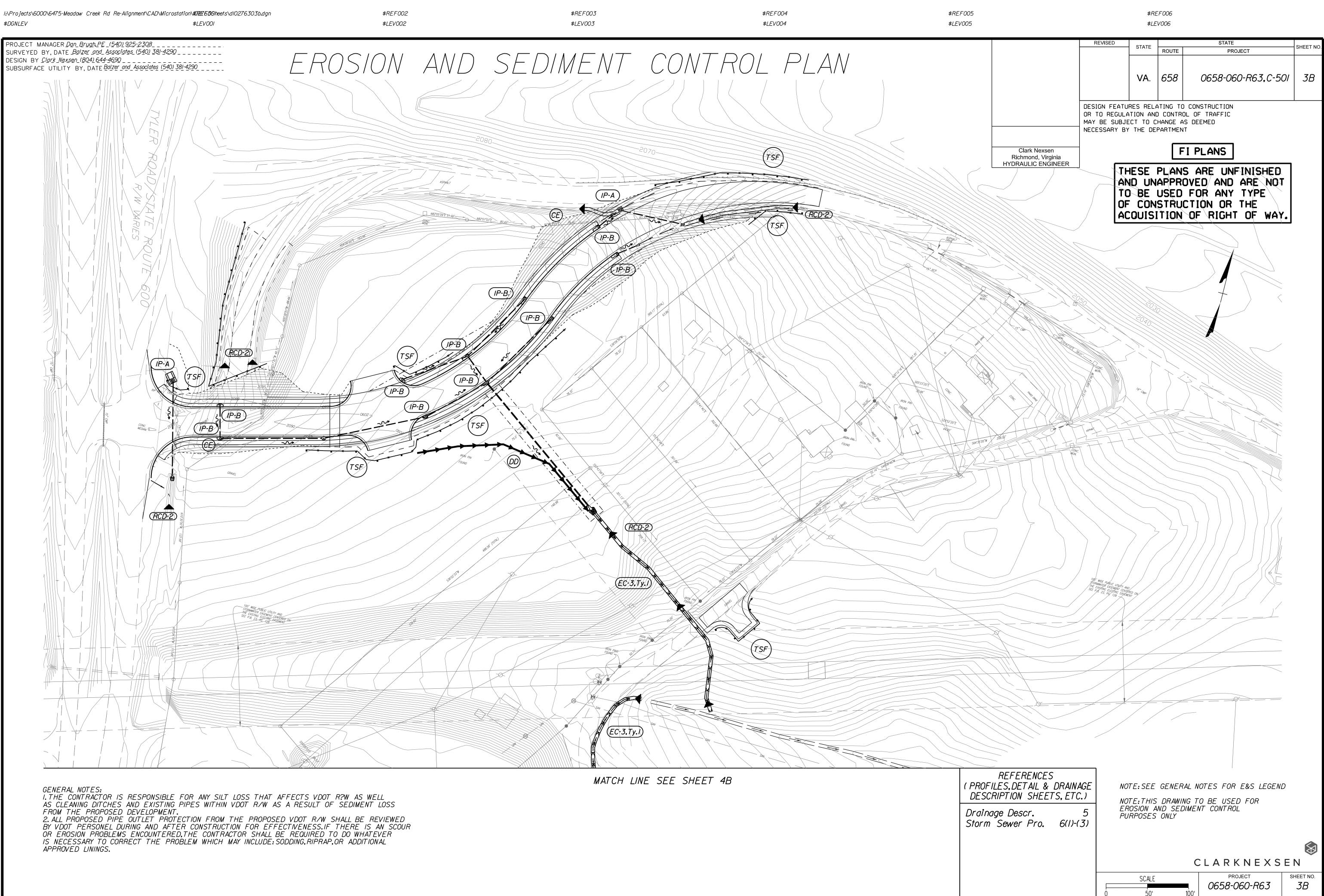


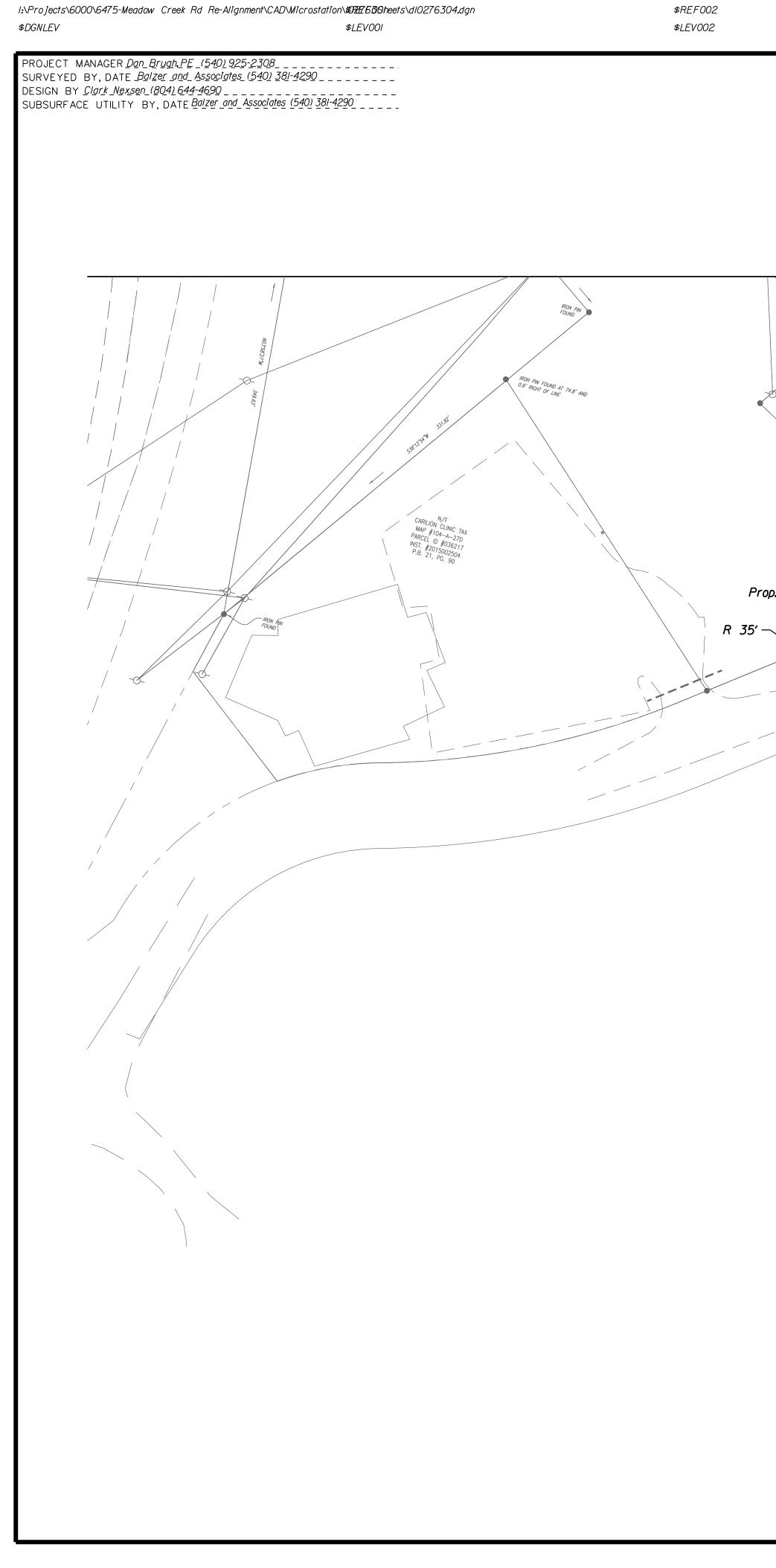
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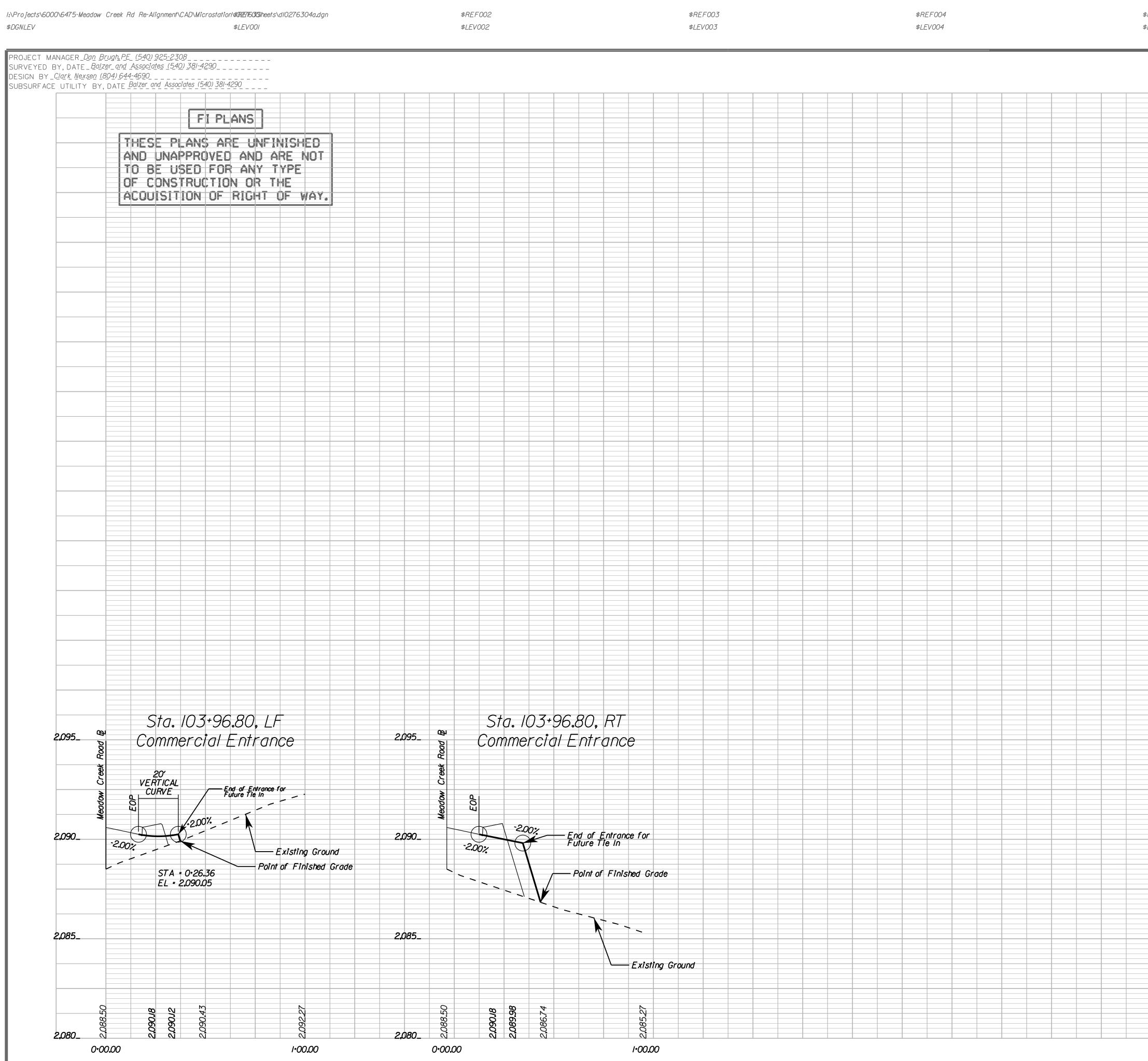
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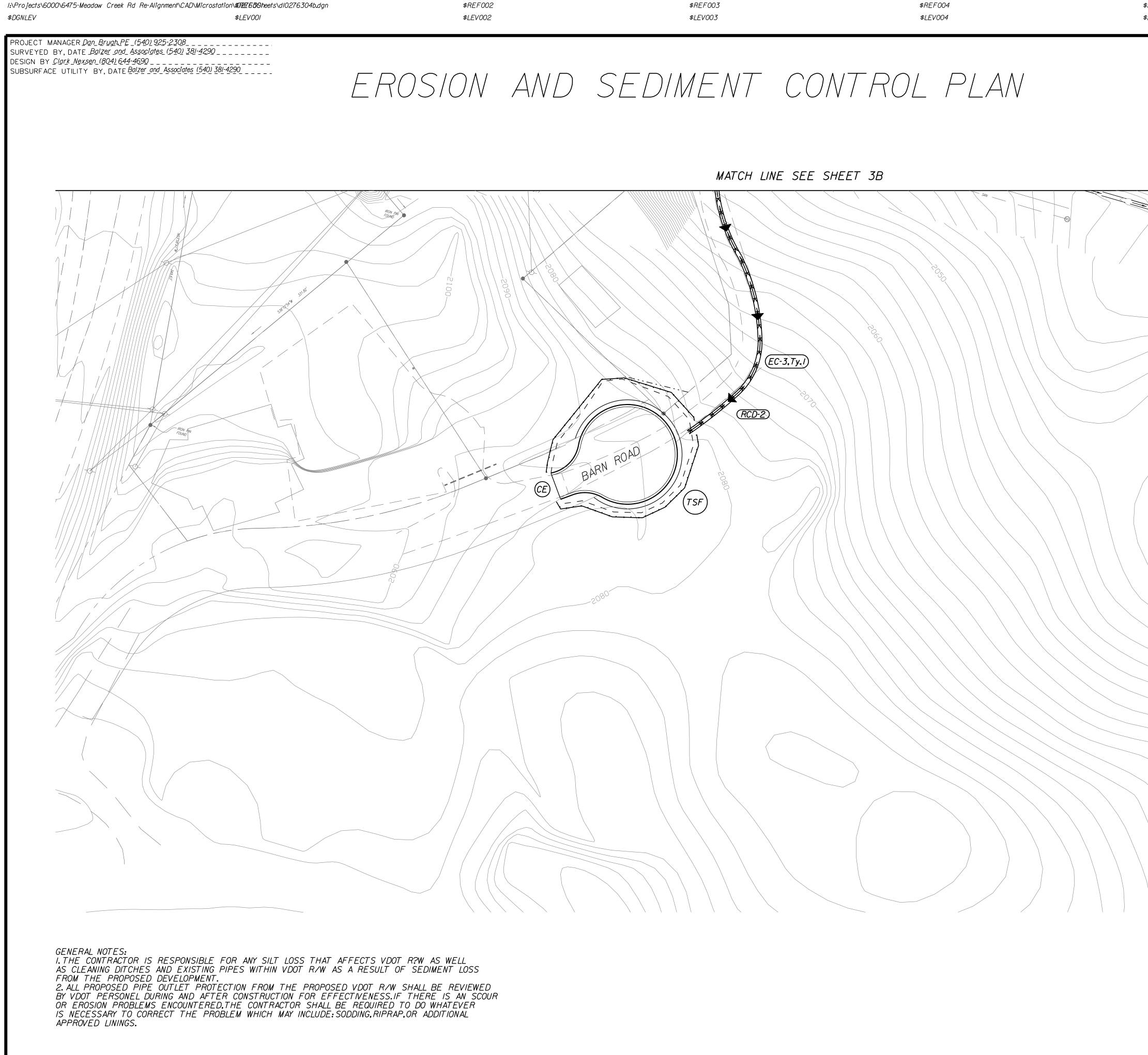
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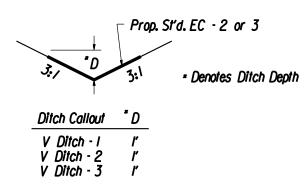
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PROJECT MANAGER <u>Dan Brugh, PE (540) 925-2308</u> SURVEYED BY, DATE <u>Balzer and Associates (540) 381-4290</u> DESIGN BY <u>Clark Nexsen (804) 644-4690</u> SUBSURFACE UTILITY BY, DATE <u>Balzer and Associates (540) 381-4290</u>

\$REF002 \$LEV002

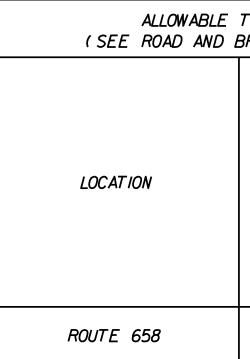
3-1 I-St'd. DI-7A Req'd. Grate A Type I Req'd. H=3.0', Inv. 2089.5	3-9 I-St'd. DI-3C, Type B Nose Req'd. H=5.2', L=6', Inv. 2084.3	3-13 I-St'd. DI-3B, Type B Nose (Cast in Place) Req'd. H=3.2', L=8', Inv. 2077.6 Connect UD-4 to DI
I)-3-2) II2'-I5" Storm Sewer Pipe Req'd. (2' Cover) Silt Tight Joint Type Inv. (In) 2086.5, Inv. (Out) 2086.0	(3-9)-(3-10) 82'-15" Storm Sewer Pipe Req'd. (3' Cover) Silt Tight Joint Type Inv. (In) 2084.3, Inv. (Out) 2083.0	3-13 - 3-14 25'-15" Storm Sewer Pipe Req'd. (2' Cover) Silt Tight Joint Type Inv. (In) 2077.6, Inv. (Out) 2077.5
3-2 I-St'd. ES-I or 2 (I5") End Section Req'd. Inv. 2086.0 3 Tons St'd. EC-I, Class Al Req'd.	(3-10) I-St'd. DI-3B, Type B Nose Req'd. H=8.0', L=8', Inv. 2080.2 Connect UD-4 to DI St'd.IS-I Req'd.	3-14 I-St'd. ES-I or 2 (15") End Section Req'd. Inv. 2077.5
Type A Installation 3-3 I-St'd. DI-3C, Type B Nose Req'd. H=3.9', L=6', Inv. 2085.8	3-10-3-7 38'-18" Storm Sewer Pipe Req'd. (6' Cover) Silt Tight Joint Type Inv. (1n) 2080.2, Inv. (0ut) 2080.0	(3-15) I-St'd. DI-3B, Type B Nose Req'd. H=5.2', L=8', Inv. 2075.6 Connect UD-4 to DI
Connect UD-4 to DI 3 - 3-4 38'-15" Storm Sewer Pipe Req'd. (3' Cover) Silt Tight Joint Type	3-II I-St'd. DI-3B, Type B Nose Req'd. H=4.0', L=8', Inv. 208I.4 Connect UD-4 to DI	(3-15)-(3-16) 32'-15" Storm Sewer Pipe Req'd. (4' Cover) Silt Tight Joint Type Inv. (In) 2075.6, Inv. (Out) 2075.2
Inv. (In) 2085.9, Inv. (Out) 2085.7 3-4 I-St'd. DI-3C, Type B Nose Req'd. H=4.2', L=6', Inv. 2085.6	3-11 - 3-10 96'-15" Storm Sewer Pipe Req'd. (6' Cover) Silt Tight Joint Type Inv. (In) 2081.4, Inv. (Out) 2080.4	3-16) I-St'd. DI-5 Req'd. Grate A Type I Req'd. H=3.0', Inv. 2075.
Connect UD-4 to DI St'd.IS-I Req'd.	3-12 I-St'd. DI-3B, Type B Nose Req'd. H=3.9', L=8', Inv. 2081.4 Connect UD-4 to DI	3-16 - 3-17 75'-15" Storm Sewer Pipe Req'd. (4' Cover) Silt Tight Joint Type Inv. (In) 2075J, Inv. (Out) 2074.7
4 - (3-5) 123'-15" Storm Sewer Pipe Req'd. (4' Cover) Silt Tight Joint Type Inv. (In) 2085.6, Inv. (Out) 2085.0	3-12-3-7 109'-15" Storm Sewer Pipe Req'd. (7' Cover) Silt Tight Joint Type	3-17 I-St'd. ES-I or 2 (15") End Section Req'd. Inv. 2074.7
(3-5) 5.3 Lin. Ft. Std. MH-I or 2 Req'd. I Std. MH-I Frame & Cover Req'd. Inv. 2084.9 Connect UD-4 to MH	Inv. (In) 2081.4, Inv. (Out) 2080.0	
5 - 3-6 I24'-I5" Storm Sewer Pipe Req'd. (4' Cover) Silt Tight Joint Type Inv. (In) 2084.9, Inv. (Out) 2084.2		
3-6 I-St'd. DI-3B, Type B Nose Req'd. H=5.4', L=4', Inv. 2084J Connect UD-4 to DI		
5 - 3-7 82'-15" Storm Sewer Pipe Req'd. (4' Cover) Silt Tight Joint Type Inv. (In) 2084J, Inv. (Out) 2083.7		
3-7 I-St'd. DI-3B, Type B Nose Req'd. H=8.3', L=6', Inv. 2079.9 St'd.IS-I Req'd. Connect UD-4 to DI		
- 3-8 193'-24" Storm Sewer Pipe Req'd. (6' Cover) Silt Tight Joint Type Inv. (In) 2079.9, Inv. (Out) 2078.6		
3-8 I-St'd. ES-I or 2 (24") End Section Req'd. Inv. 2078.6 3 Tons St'd. EC-I, Class Al Req'd. Type A Jostallation		
Type A Installation		

Prop. Ditch Details



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## DRAINAGE DESCRIPTIONS



ALLOWABLE TYPE OF PIPE CULVERT (UNLESS OTHERWISE SHOWN ON PLANS) (SEE ROAD AND BRIDGE STANDARD PC-I FOR HEIGHT OF COVER LIMITATIONS FOR EACH TYPE)												
LOCATION	CONCRETE	ALUMINUM COATED TYPE 2 CORRUGATED STEEL	POLYMER COATED (10/10) CORRUGATED STEEL	UNCOATED GALVANIZED CORRUGATED STEEL	GALVANIZED STEEL STRUCTURAL PLATE	GALVANIZED STEEL STRUCTURAL PLATE WITH THICKENED INVERT	CORRUGATED ALUMINUM ALLOY	CORRUGATED ALUMINUM ALLOY STRUCTURAL PLATE	POLYVINYLCHLORIDE (PVC) PROFILE WALL PIPE (SMOOTH INTERIOR)	POLYETHYLENE (PE) CORRUGATED TYPE C	POLYETHYLENE (PE) CORRUGATED TYPE S	POLYPROPYLENE (PP) TYPE D OR S
ROUTE 658	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$	V			$\checkmark$	$\checkmark$
ENTRANCES	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	~	V	$\checkmark$	~	~		$\checkmark$	$\checkmark$

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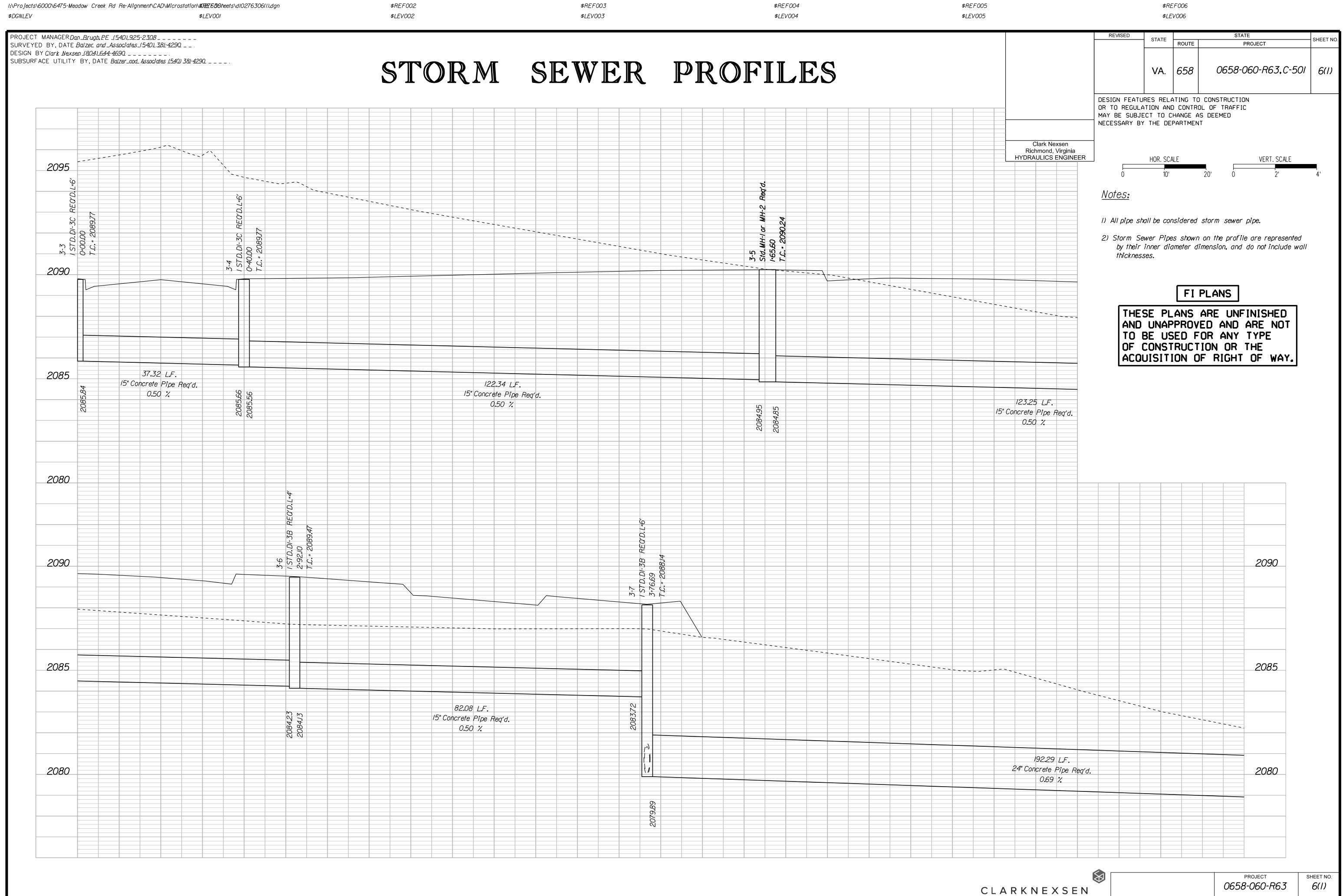
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				ROUTE	PROJECT		SHEET NO.			
			VA.	658	0658-060-R63	C-501	5			
		OR TO REGULA MAY BE SUBJE	ON FEATURES RELATING TO CONSTRUCTION O REGULATION AND CONTROL OF TRAFFIC BE SUBJECT TO CHANGE AS DEEMED SSARY BY THE DEPARTMENT							
	Clark Nexsen Richmond, Virginia HYDRAULIC ENGINEER			F	I PLANS					
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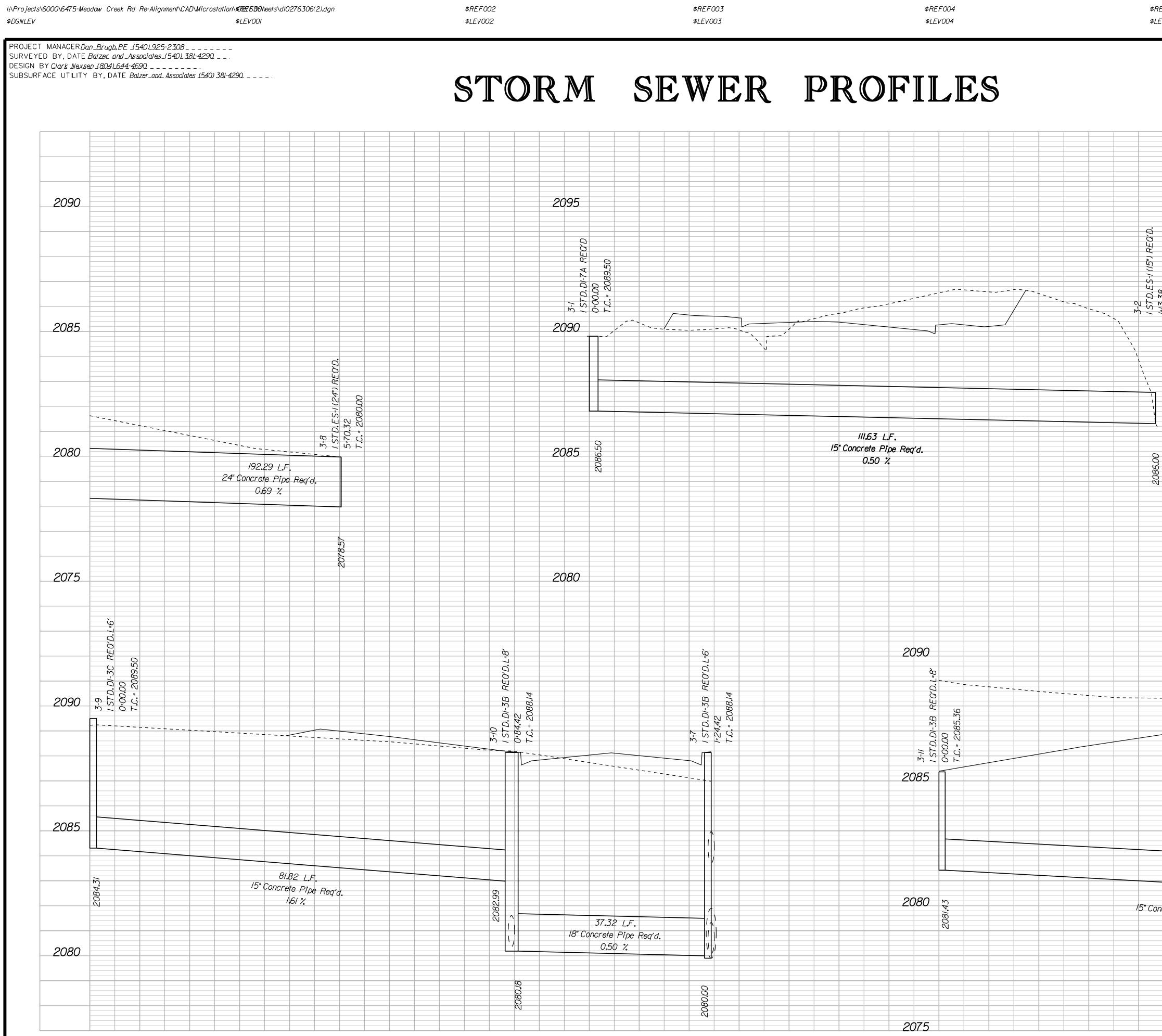
	YPE OF STORM SEWER PIPE (UNLESS OTHERWISE SHOWN ON PLANS) RIDGE STANDARD PC-I FOR HEIGHT OF COVER LIMITATIONS FOR EACH TYPE)									
CONCRETE	ALUMINUM COATED TYPE 2 STEEL SPIRAL RIB	POLYMER COATED (10/10) CORRUGATED STEEL SPIRAL RIB	POLYMER COATED (10/10) CORRUGATED STEEL DOUBLE WALL (SMOOTH INTERIOR)	ALUMINUM SPIRAL RIB	POLYVINYLCHLORIDE (PVC) PROFILE WALL PIPE (SMOOTH INTERIOR)	POLYETHYLENE (PE) CORRUGATED TYPE S	POLYPROPYLENE (PP) TYPE D OR S			
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project 0658-060-R63

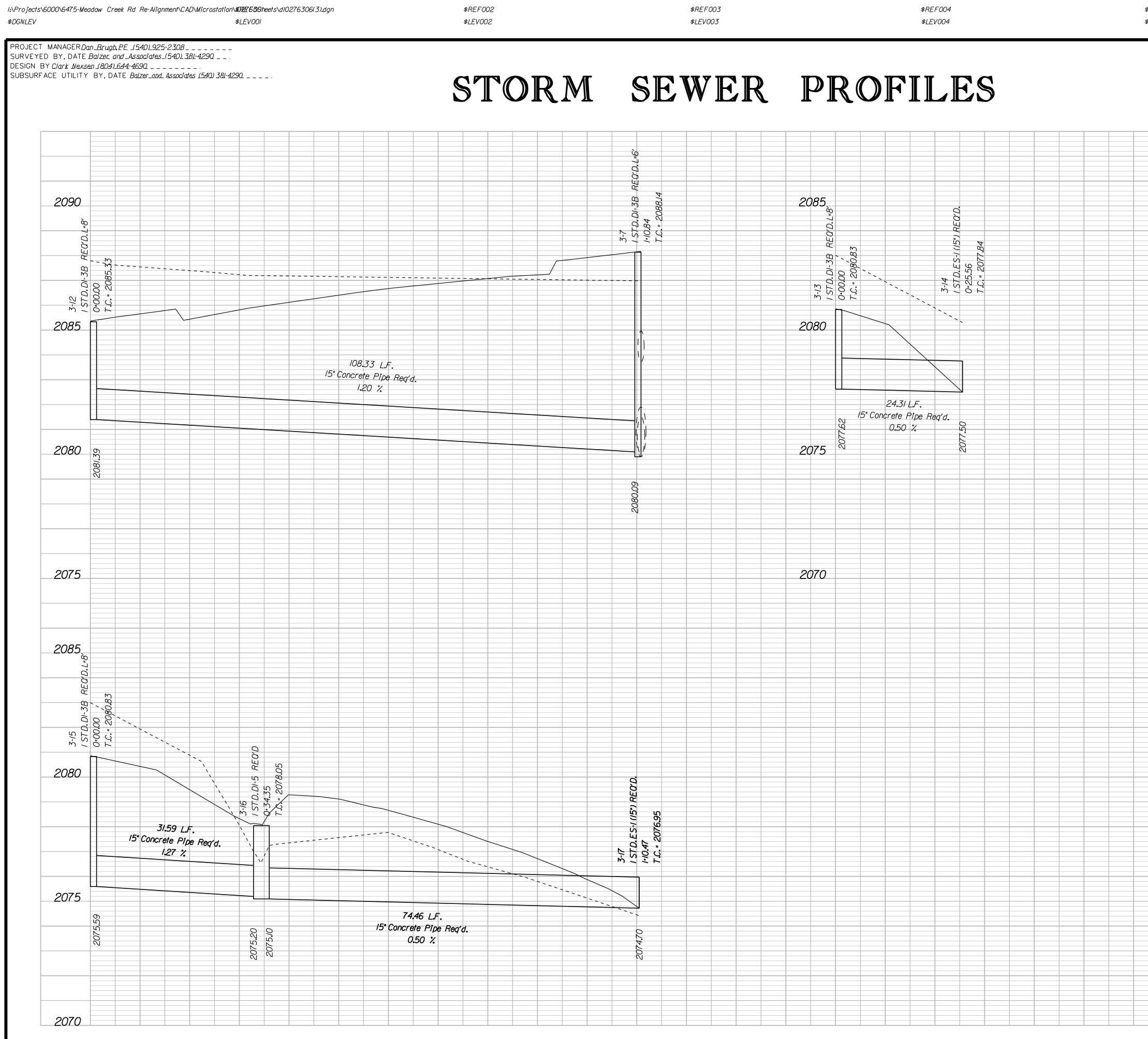
SHEET NO. 5





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Image:			REVISED			STATE		
BESION FEATURES PLEATING TO CONSTRUCTION WIT DE SUBJECT TO CHARGE AS DEFINED WIT BENJUNCTON AND CONSTRUCT OF TRAFFIC WIT BENJUNCTURE SHERE WITCH AND				STATE	ROUTE			SHEET NO.
Cleft Netter Not To REQUERT WHO CONTROL OF THEFT Not State of the Head of thead of the Head of the Head of the Head of the H				VA.	658	0658-06	60-R63 <b>,</b> C-501	6(2)
Clerk Nextern Denvice Subject TO CHARGE as DEEMO NOTESSARY BY THE DEPARTMENT Clerk Nextern Denvice Subject TO CHARGE as DEFINED NOTESSARY BY THE DEPARTMENT Department of the profile or represented of the solution of the profile or represented of the pr								
Retream Volume       HC SCAL       UHI SCAL         0       0       20       0       2       4         0       0       20       0       2       4         Notes:         0       0       20       0       2       4         Notes:         0       0       20       0       2       4         Notes:         Inter diameter dimension, and do not include woll i			OR TO REGULA MAY BE SUBJE	ATION AND ECT TO C	) CONTROL HANGE AS	L OF TRAFFIC DEEMED		
Improved by the state of the second								
Notes: Notes: • • • • • • • • • • • • • • • • • • •			<u> </u>	HOR. SCA	ALE .			
1 All pipe shall be considered storm sever pipe. 1 All pipe shall be considered storm sever pipe. 2 Storm Sever Pipes shown on the profile or represented by their inner diseases. <b>FIFLAND FIFLAND FIFLAN</b>			Ó	10'		20' Ö	2'	4'
by their Inner diameter dimension, and do not include wall hicknesses. FI PLANS THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACOUISITION OF RIGHT OF WAY.			<u>Notes:</u>					
by their Inner diameter dimension, and do not include wall hicknesses. FI PLANS THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACOUISITION OF RIGHT OF WAY.	6.00		I) All pipe sh	all be cor	nsidered .	storm sewer p	ipe.	
FI PLANS FI PLANS FI PLANS THESE PLANS ARE UNFINISHED AND UNAPPROVED AND TYPE DF CONSTRUCTION OR THE ACOUISITION OF RIGHT OF WAY.	, <u>38</u> - = 208							
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OF THE ACOUISITION OF RIGHT OF WAY.	/+/⊇ C		thicknes	ses.				
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OF THE ACOUISITION OF RIGHT OF WAY.					FIF	PLANS		
AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OF RIGHT OF WAY.			Тне	SF PI				
OF CONSTRUCTION OF THE ACOUISITION OF RIGHT OF WAY.			AND	UNAF	PROVE	ED AND A	RE NOT	
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BS285 LF. MCrete Pipe Reyd, 1028								
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					STATE	ROUTE		ROJECT	SHEET NO.
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							) CONSTRUCTIO DL OF TRAFFIC		
				MAY BE SUBJE NECESSARY BY	ЕСТ ТО С	HANGE A	S DEEMED		
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				<u>Notes:</u>					
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				I) All pipe sh	all be cor	nsidered	storm sewer	pipe.	
				2) Storm Se	wer Pine	es shown	n on the profile	e are represented	
				by their	inner dia			do not include wall	
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