

PROJECT MANAGER NAJEEBULLAH BEHNAM (434-459-9763) (CITY OF CHARLOTTESVILLE)
 SURVEYED BY, DATE H&B Survey and Mapping, LLC, 11/11/2024
 DESIGN BY Kimley-Horn & Associates, Inc.
 SUBSURFACE UTILITY BY, DATE INFRAMAP CORP, 10/30/2024



CITY OF CHARLOTTESVILLE
 DEPARTMENT OF PUBLIC WORKS

PLAN AND PROFILE OF PROPOSED
 STATE HIGHWAY

CITY OF CHARLOTTESVILLE
 DAIRY ROAD BRIDGE
 FROM: 0.03 MI. S. OF ROUTE 250 EB OFF RAMP
 TO: 0.06 MI. N. OF ROUTE 250 EB OFF RAMP

FHWA-534 DATA 350II

STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
VA.	STP-5104(326)	N/A	U000-104-365 SEE TABULATION BELOW FOR SECTION NUMBERS	1

FOR INDEX OF SHEETS SEE SHEET 1A

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (OpenRoads Designer). COMPUTER IDENTIFICATION NO 118295.

90% PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

STORMWATER COMPLIANCE

THIS PROJECT IS REQUIRED TO REDUCE THE TOTAL PHOSPHOROUS LOAD BY 0.08 LBS/YEAR. THIS REQUIREMENT IS SATISFIED BY A PURCHASE OF NUTRIENT OFFSET CREDITS FROM TBD NUTRIENT CREDIT BANK IN HUC 02080204 ON X/X/2026

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA			
	DAIRY ROAD MAJOR COLLECTOR (GS-7)	US 250-EB OFF-RAMP	US 250-BYPASS OTHER FREEWAYS AND EXPRESSWAYS (GS-5)
	Fr: Gentry Lane To: Grove Road	Fr: US 250 EB To: Dairy Road	Fr: Hydraulic Road To: Rugby Ave
ADT (2023)	1,500	2,000	41,000
ADT (2047)	1,680	2,240	45,960
DHV	110	280	2,000
D (%) (design hour)	62.3	100	51.6
T (%) (design hour)	1	1	2
V (MPH)	25 MPH	25 MPH	45 MPH
TERRAIN	ROLLING	ROLLING	ROLLING
DIVIDED/UNDIVIDED	UNDIVIDED	UNDIVIDED	DIVIDED

*SEE PLAN AND PROFILE SHEETS FOR HORIZONTAL CURVE AND DESIGN SPEED DATA

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CONVENTIONAL SIGNS	
STATE LINE	[Symbol]
COUNTY LINE	[Symbol]
CITY, TOWN OR VILLAGE	[Symbol]
RIGHT OF WAY LINE	[Symbol]
FENCE LINE	[Symbol]
UNFENCED PROPERTY LINE	[Symbol]
FENCED PROPERTY LINE	[Symbol]
WATER LINE	[Symbol]
SANITARY SEWER LINE	[Symbol]
GAS LINE	[Symbol]
ELECTRIC UNDERGROUND CABLE	[Symbol]
TRAVELED WAY	[Symbol]
GUARD RAIL	[Symbol]
RETAINING WALL	[Symbol]
RAILROADS	[Symbol]
BASE OR SURVEY LINE	[Symbol]
LEVEE OR EMBANKMENT	[Symbol]
BRIDGES	[Symbol]
CULVERTS	[Symbol]
DROP INLET	[Symbol]
POWER POLES	[Symbol]
TELEPHONE OR TELEGRAPH POLES	[Symbol]
TELEPHONE OR TELEGRAPH LINES	[Symbol]
HEDGE	[Symbol]
TREES	[Symbol]
HEAVY WOODS	[Symbol]
GROUND ELEVATION	[Symbol]
GRADE ELEVATION	[Symbol]

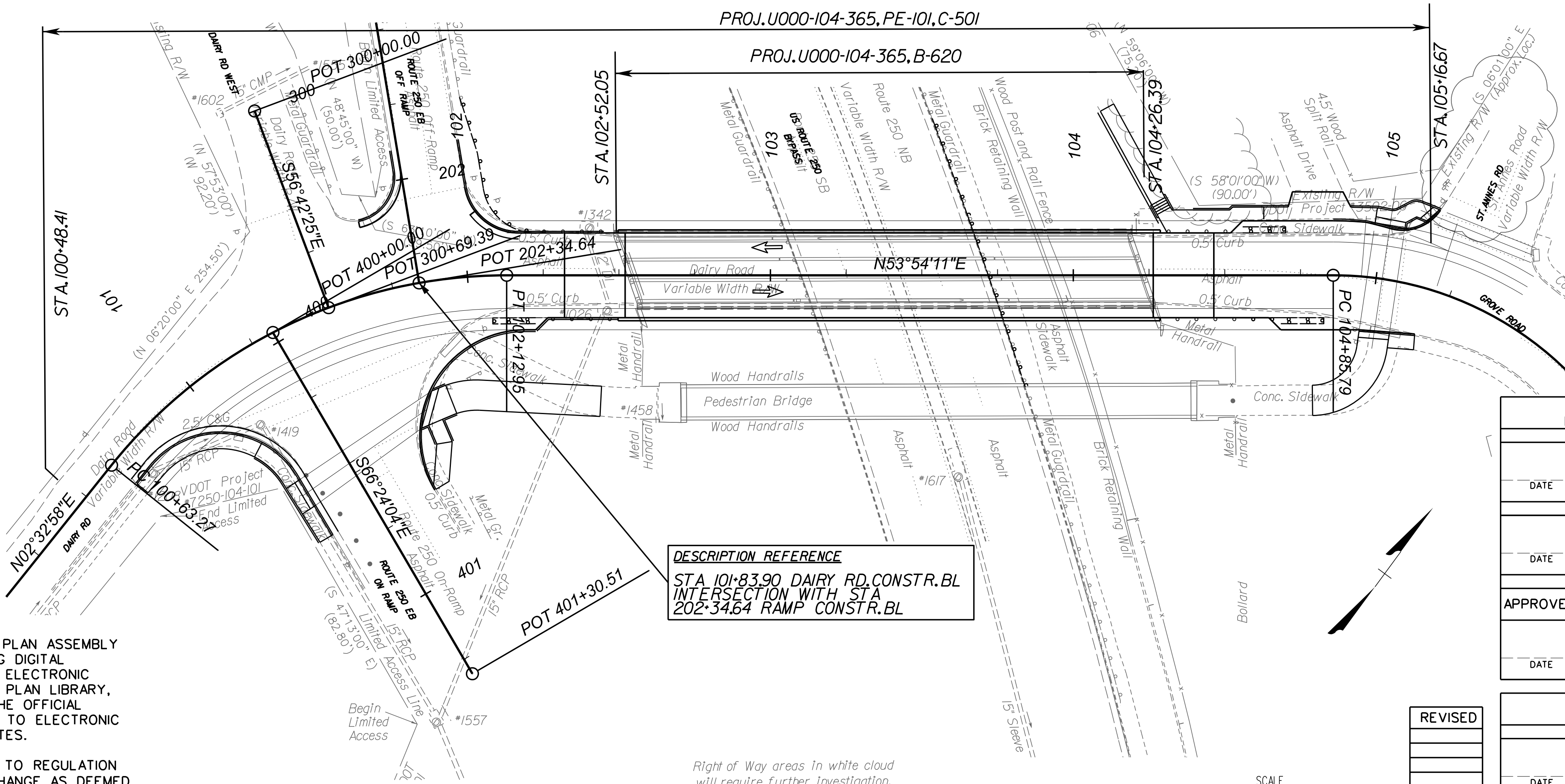
THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, HAS BEEN SEALED AND SIGNED USING DIGITAL SIGNATURES AND THE OFFICIAL PLAN ASSEMBLY IN ELECTRONIC FORMAT IS STORED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE THE 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 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, VIRGINIA MUTCD VERSION 11.0, VIRGINIA WORK AREA PROTECTION MANUAL VERSION 11.0 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.

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DESCRIPTION REFERENCE
 STA 101+83.90 DAIRY RD CONST. BL
 INTERSECTION WITH STA
 202+34.64 RAMP CONST. BL

Population City of Charlottesville 46,553 (2020 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PROJECT NO.	TYPE PROJECT	DESCRIPTION
						FEET	MILES	FEET	MILES			
U000-104-365	C-501	STP-5104(326)	1000	118295		468.26	0.09	293.92	0.06	B-620	Const.	Fr: 0.03 Mi. S. OF RT. 250 EB OFF RAMP To: 0.06 Mi. N. OF RT. 250 EB OFF RAMP
	PE-101	STP-5104(326)	PENG	118295		468.26	0.09	293.92	0.06		Prel. Engr.	Fr: 0.03 Mi. S. OF RT. 250 EB OFF RAMP To: 0.06 Mi. N. OF RT. 250 EB OFF RAMP

Project Lengths are based on Dairy Road Construction Baseline.

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
DATE	DISTRICT PLANNING AND INVESTMENT MANAGER
DATE	DISTRICT PROJECT DEVELOPMENT ENGINEER
APPROVED FOR RIGHT OF WAY ACQUISITION	
DATE	DISTRICT ENGINEER/ADMINISTRATOR

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	DISTRICT PLANNING AND INVESTMENT MANAGER
DATE	DISTRICT PROJECT DEVELOPMENT ENGINEER
APPROVED FOR CONSTRUCTION	
DATE	DISTRICT ENGINEER/ADMINISTRATOR

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SCALE	PROJECT	SHEET NO.
0 25' 50'	U000-104-365	1

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INDEX OF SHEETS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 C-501	1A

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

SHEET NO.	DESCRIPTION	STATIONS
1	TITLE SHEET	
1A	INDEX OF SHEETS/LOCATION MAP	
1B	(NOT USED)	
1C	REVISION DATA SHEET	
1D	SURVEY ALIGNMENT DATA SHEET	
1E	CONSTRUCTION ALIGNMENT DATA SHEET	
1F	UNDERGROUND UTILITY TEST HOLE INFORMATION	
1G	TRAFFIC MAINTENANCE PLAN & SEQUENCE OF CONSTRUCTION	
1H(1) THRU 1H(5)	DETOUR PLAN	
2	GENERAL NOTES	
2A THRU 2C	TYPICAL SECTIONS	100+51.27 to 105+16.67
2D(1) THRU 2D(2)	BMP DETAILS	
2E(1) THRU 2E(2)	CURB RAMP GRADING	
2F THRU 2G	SUMMARY SHEETS	
3	PLAN DAIRY ROAD	100+51.27 to 105+16.67
3A	PROFILE DAIRY ROAD	
3B	SIDE STREET PROFILES	100+51.27 to 105+16.67
3C	PHASED EROSION AND SEDIMENT CONTROL	100+51.27 to 105+16.67
4(1) THRU 4(2)	DRAINAGE DESCRIPTIONS AND STORM PROFILES	100+51.27 to 105+16.67
5(1) THRU 5(3)	SIGNING AND PAVEMENT MARKING PLANS	100+51.27 to 105+16.67
6(3)	UTILITY PLAN	100+51.27 to 105+16.67

TOTAL CROSS SECTION SHEETS: 7

SEE CROSS SECTION SHEET 1 FOR INDEX OF SHEETS



90% PLANS

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SCALE	PROJECT	SHEET NO.
0 1200' 2400'	U000-104-365	1A

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SURVEY ALIGNMENT DATA SHEET

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 C-501	ID

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EXISTING STORM DATA

*1026
Drop Inlet
Rim = 510.18'
Inv. In = 507.12' (12" DI From *1342)
Inv. Out = 505.62' (15" RCP To *1557)

*1208
Drop Inlet
Rim = 519.98'
Inv. In = 516.46' (15" RCP From *1574)
Inv. Out = 516.32' (15" RCP To *1419)

*1342
Drop Inlet
Rim = 510.02'
Inv. Out = (Full of Debris)

*1419
Storm Manhole
Rim = 516.52'
Inv. In = 512.19' (15" RCP From *1208)
Inv. Out = 511.67' (15" RCP To *1557)

*1458
Outlet Pipe
Inv. Out = 508.59' (4" PVC From Metal Grate)

*1557
Drop Inlet
Rim = 510.99'
Inv. In = 505.07' (15" RCP From *1419)
Inv. In = 504.71' (15" RCP From *1026)
Inv. Out = 504.69' (15" RCP To AD)

*1574
Storm Manhole
Rim = 526.27'
Inv. In = 520.90' (15" RCP From AD)
Inv. Out = 520.11' (15" RCP To *1208)

*1602
Drop Inlet
Rim = 515.08'
Inv. Out = 513.42' (4" PVC To *1555)

*1617
Drop Inlet
Rim = 485.99'
Inv. Out = 482.12' (15" Sleeve To *1618)

*1618
Drop Inlet
Rim = 482.48'
Inv. In = 477.61' (15" Sleeve From *1617)
Inv. In = 477.80' (15" Sleeve From AD)
Inv. In = 477.75' (18" RCP From AD)
Inv. Out = 477.59' (18" Sleeve To AD)

THIS SURVEY WAS UPDATED UNDER THE DIRECT RESPONSIBLE CHARGE OF, LESLIE R. BYRNSIDE, L.S., FROM AN ACTUAL GROUND SURVEY MADE UNDER HIS SUPERVISION; THAT THE ADDITIONAL DATA WAS OBTAINED SEPTEMBER 2024 THROUGH OCTOBER 2024; AND THAT THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

THIS ROUTE SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF IS CORRECT AND COMPLIES WITH THE STANDARDS AND PROCEDURES AS ESTABLISHED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION LOCATION AND DESIGN DIVISION SURVEY MANUAL 2021.

PROPERTY INFORMATION IS BASED ON DEEDS, PLATS OF RECORD, HIGHWAY PLANS AND PHYSICAL EVIDENCE FOUND IN THE FIELD AND WAS PLACED IN THE DRAWING.

THE INFORMATION SHOWN IN THIS DRAWING WAS COMPILED FROM EXISTING LAND RECORDS AND DOES NOT REPRESENT A BOUNDARY SURVEY. BEARINGS AN DISTANCES IN PARENTHESES ARE FROM RECORDED PLATS OR DEED DATA.

NO TITLE REPORT FURNISHED WHICH MAY REVEAL OR DISCOVER EASEMENTS NOT SHOWN HEREON.

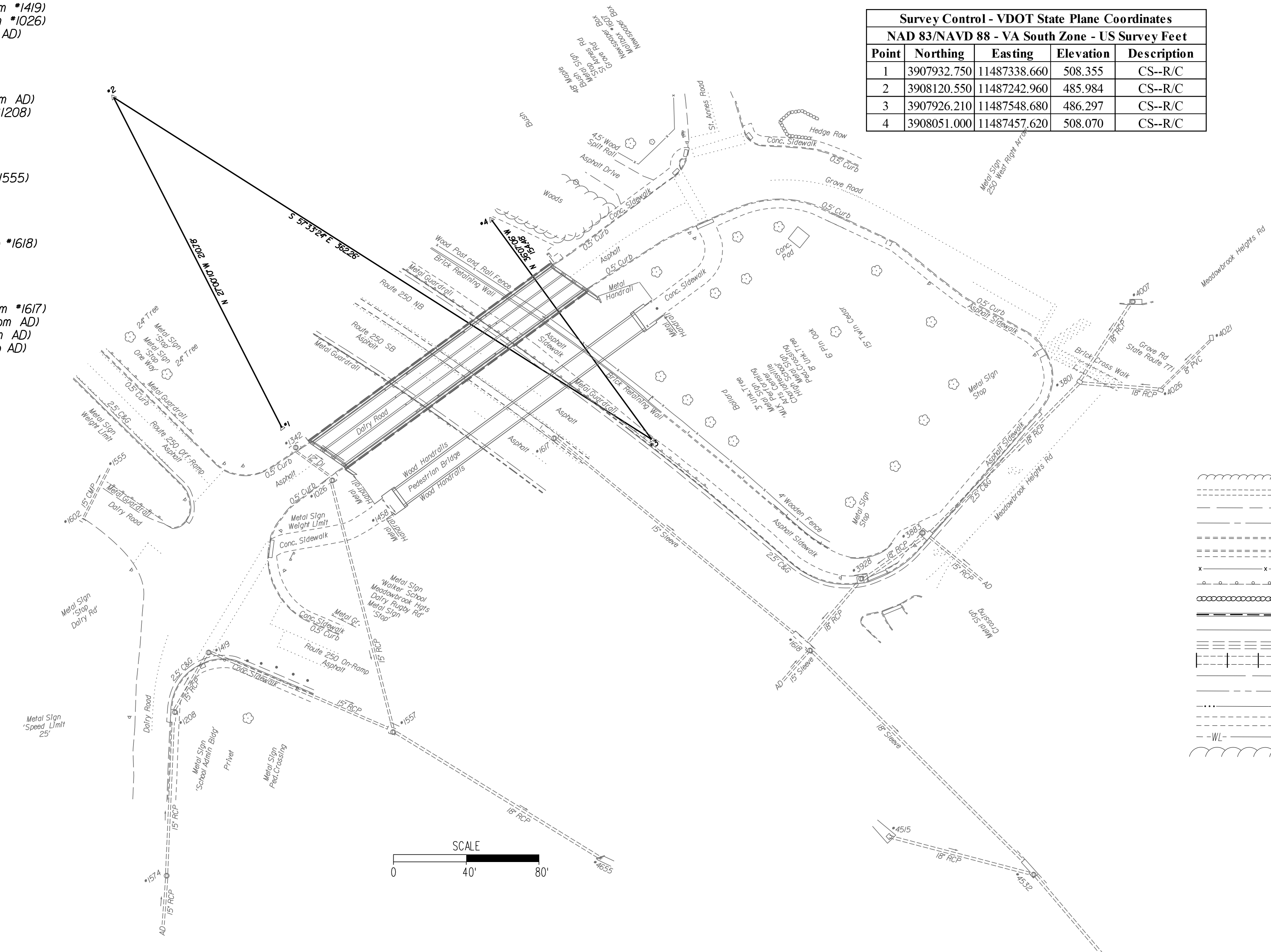
NO CEMETERY SITES WERE OBSERVED WITHIN THE SURVEY LIMITS. THIS DOES NOT PRECLUDE THEIR EXISTENCE.

INFRAMAP IS RESPONSIBLE FOR THE LOCATION OF ALL THE UTILITIES TO INCLUDE SANITARY SEWER.

PLANIMETRIC LEGEND

- BM
- PHOTO CP
- Drainage Flow Arrow (Storm Drainage)
- Filler Cap (Gas Stations)
- Flow Arrow (Streams & Rivers)
- Flag Pole
- Secondary Control Point
- Filler Pipe (Gas Stations)
- Gas Tank Access Manhole (Gas Stations)
- Gravesite Marker
- Guard Post
- Gas Vent Pipe (Gas Stations)
- Mail Box
- Mine Entrance
- Node Point
- Property Line Symbol
- Found Monumentation
- Property Monument
- Metal or Wooden Post
- Monitoring Well
- Road Arrow
- Reference
- Right of Way Monument
- VDOT Commission Monument
- Iron Right of Way Pin
- Railroad Mile Marker
- Railroad Right of Way Monument
- Railroad Signal Pole or Gate
- Railroad Telegraph Pole
- Railroad Telephone Pole
- Railroad Switch
- Shrub
- Storm Sewer Manhole
- Photogrammetric Target
- Tree
- Traffic Left Turn Arrow
- Traffic Left-Right Arrow
- Traffic Left-Thru Arrow
- Traffic Left-Thru-Right Arrow
- Traffic Right Turn Arrow
- Traffic Thru Arrow
- Traffic Thru-Right Arrow
- Traffic Springback Marker
- Wetland Flag Automatic
- Wetland Flag Manual
- Bridge Elevation
- Plan Elevation
- Water Elevation
- Elevation Tick Mark
- Connected Plat Symbol
- Brush Line
- Pipe Culverts
- City Line
- County Line
- Curb Only
- Curb and Gutter
- Fence Line
- Guardrail
- Hedge Row
- Jersey Barrier
- Obscure Areas
- Paved Ditches
- Railroad
- Right of Way
- State Line
- Edges of Water
- Sidewalks
- Wetlands
- Woods

Survey Control - VDOT State Plane Coordinates NAD 83/NAVD 88 - VA South Zone - US Survey Feet				
Point	Northing	Easting	Elevation	Description
1	3907932.750	11487338.660	508.355	CS--R/C
2	3908120.550	11487242.960	485.984	CS--R/C
3	3907926.210	11487548.680	486.297	CS--R/C
4	3908051.000	11487457.620	508.070	CS--R/C



90% PLANS

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SCALE 0 40' 80'	PROJECT U000-104-365	SHEET NO. ID
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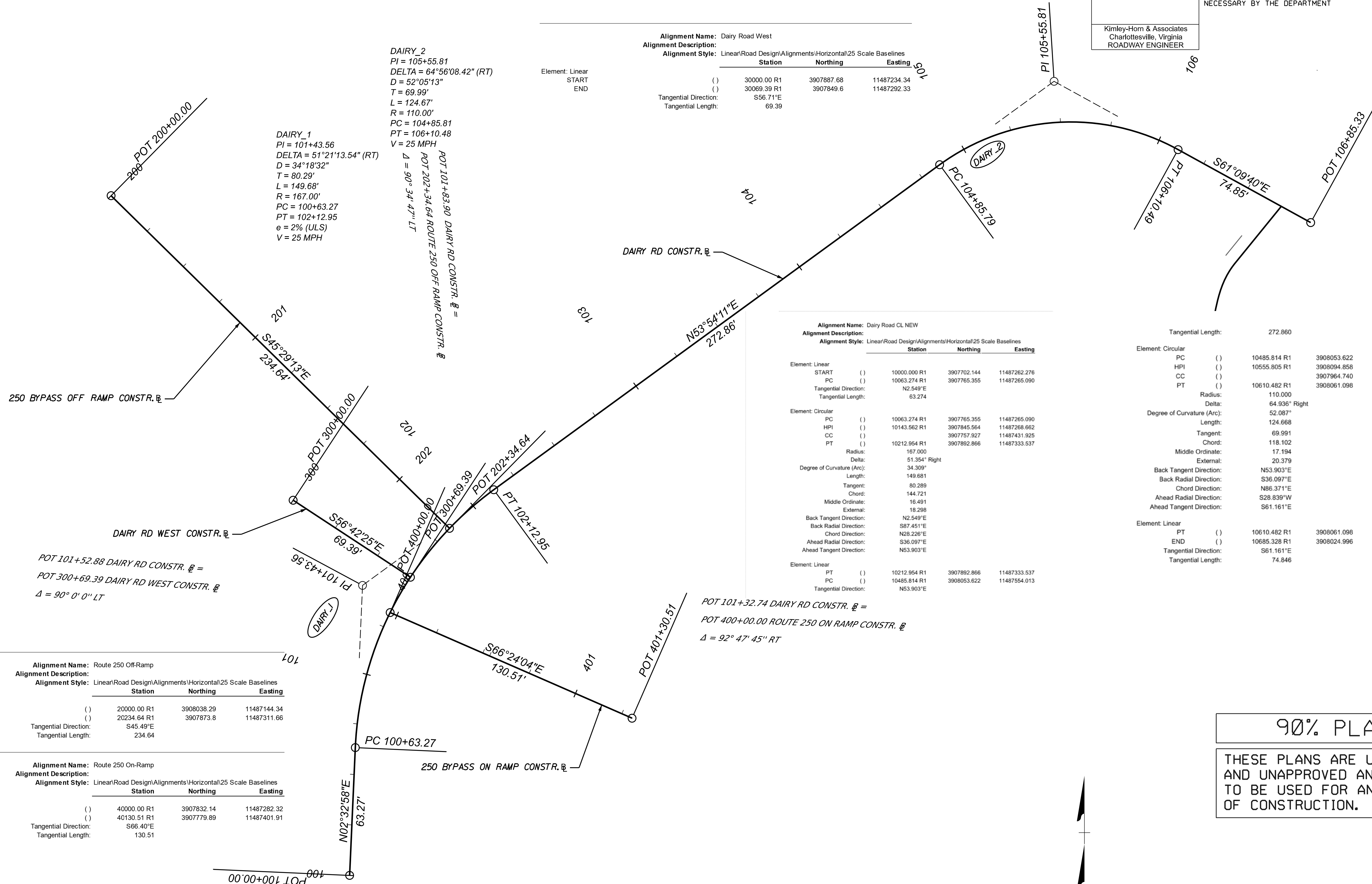
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	VA.	N/A	U000-104-365 P-101 B-620 C-501	IE

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Kimley-Horn & Associates
 Charlottesville, Virginia
 ROADWAY ENGINEER

CONSTRUCTION ALIGNMENT DATA SHEET



Alignment Name: Dairy Road West
Alignment Description: Linear/Road Design/Alignments/Horizontal/25 Scale Baselines
Alignment Style: Linear/Road Design/Alignments/Horizontal/25 Scale Baselines

Station	Northing	Easting		
START	()	30000.00 R1	3907887.68	11487234.34
END	()	30069.39 R1	3907849.6	11487292.33

Tangential Direction: S56.71°E
 Tangential Length: 69.39

DAIRY_1
 PI = 101+43.56
 DELTA = 51°21'13.54" (RT)
 D = 34°18'32"
 T = 80.29'
 L = 149.68'
 R = 167.00'
 PC = 100+63.27
 PT = 102+12.95
 e = 2% (ULS)
 V = 25 MPH

DAIRY_2
 PI = 105+55.81
 DELTA = 64°56'08.42" (RT)
 D = 52°05'13"
 T = 69.99'
 L = 124.67'
 R = 110.00'
 PC = 104+85.81
 PT = 106+10.48
 V = 25 MPH

Alignment Name: Dairy Road CL NEW
Alignment Description: Linear/Road Design/Alignments/Horizontal/25 Scale Baselines
Alignment Style: Linear/Road Design/Alignments/Horizontal/25 Scale Baselines

Station	Northing	Easting		
START	()	10000.000 R1	3907702.144	11487262.276
PC	()	10063.274 R1	3907765.355	11487265.090
END	()	10212.954 R1	3907892.866	11487333.537

Tangential Direction: N2.549°E
 Tangential Length: 63.274

Element: Circular

Station	Northing	Easting		
PC	()	10063.274 R1	3907765.355	11487265.090
HPI	()	10143.562 R1	3907845.564	11487268.652
CC	()	3907757.927	11487431.925	
PT	()	10212.954 R1	3907892.866	11487333.537

Radius: 167.000
 Delta: 51.354° Right
 Degree of Curvature (Arc): 34.309°
 Length: 149.681
 Tangent: 80.289
 Chord: 144.721
 Middle Ordinate: 16.491
 External: 18.298
 Back Tangent Direction: N2.549°E
 Back Radial Direction: S87.451°E
 Chord Direction: N28.226°E
 Ahead Radial Direction: S36.097°E
 Ahead Tangent Direction: N53.903°E

Element: Linear

Station	Northing	Easting		
PT	()	10212.954 R1	3907892.866	11487333.537
PC	()	10485.814 R1	3908053.622	11487554.013

Tangential Direction: N53.903°E

Tangential Length: 272.860

Element: Circular

Station	Northing	Easting		
PC	()	10485.814 R1	3908053.622	11487554.013
HPI	()	10555.805 R1	3908094.858	11487610.568
CC	()	3907964.740	11487618.820	
PT	()	10610.482 R1	3908061.098	11487671.878

Radius: 110.000
 Delta: 64.936° Right
 Degree of Curvature (Arc): 52.087°
 Length: 124.668
 Tangent: 69.991
 Chord: 118.102
 Middle Ordinate: 17.194
 External: 20.379
 Back Tangent Direction: N53.903°E
 Back Radial Direction: S36.097°E
 Chord Direction: N86.371°E
 Ahead Radial Direction: S28.839°W
 Ahead Tangent Direction: S61.161°E

Element: Linear

Station	Northing	Easting		
PT	()	10610.482 R1	3908061.098	11487671.878
END	()	10685.328 R1	3908024.996	11487737.442

Tangential Direction: S61.161°E
 Tangential Length: 74.846

Alignment Name: Route 250 Off-Ramp
Alignment Description: Linear/Road Design/Alignments/Horizontal/25 Scale Baselines
Alignment Style: Linear/Road Design/Alignments/Horizontal/25 Scale Baselines

Station	Northing	Easting		
START	()	20000.00 R1	3908038.29	11487144.34
END	()	20234.64 R1	3907873.8	11487311.66

Tangential Direction: S45.49°E
 Tangential Length: 234.64

Alignment Name: Route 250 On-Ramp
Alignment Description: Linear/Road Design/Alignments/Horizontal/25 Scale Baselines
Alignment Style: Linear/Road Design/Alignments/Horizontal/25 Scale Baselines

Station	Northing	Easting		
START	()	40000.00 R1	3907832.14	11487282.32
END	()	40130.51 R1	3907779.89	11487401.91

Tangential Direction: S66.40°E
 Tangential Length: 130.51

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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	N/A		U000-104-365 P-101 B-620 C-501	IF

UNDERGROUND UTILITY TEST HOLE INFORMATION

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PLAN SHEET	TEST HOLE	OWNER	TYPE OF FACILITY	ELEVATION	CONFLICT?	REMARKS	UTILITY ADJUSTMENT REQUIRED?
3	1	CITY OF CHARLOTTESVILLE	WATER LINE	507.27	NO		NO
3	2	CITY OF CHARLOTTESVILLE	WATER LINE	507.64	NO		NO
3	3	DOMINION POWER	ELECTRICAL LINE	503.40	NO	TEST HOLE REVEALED ELECTRIC REQUESTED IN TH#3 & #4 RUNNING IN DUCT. HUB AND TACK SET ON NORTH DUCT EDGE.	NO
3	4						
3	5	CITY OF CHARLOTTESVILLE	WATER LINE	491.21	NO		NO

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TRAFFIC MANAGEMENT PLAN (TMP)

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	N/A	U000-104-365 C-501	1G
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Kimley-Horn & Associates Charlottesville, Virginia ROADWAY ENGINEER				

INTRODUCTION

THE PROPOSED IMPROVEMENTS TOTAL APPROXIMATELY 450 LINEAR FEET AND INVOLVE THE REPLACEMENT OF THE EXISTING DAIRY ROAD BRIDGE OVER ROUTE 250 BYPASS IN CHARLOTTESVILLE, VIRGINIA. THE PROJECT INCLUDES ANCILLARY ROADWAY IMPROVEMENTS TO BOTH THE NORTHERN AND SOUTHERN APPROACH TO THE BRIDGE.

TEMPORARY TRAFFIC CONTROL PLAN

GENERAL NOTES

- 1.) THE PROPOSED IMPROVEMENTS FALL UNDER THE TMP TYPE B PROJECT.
- 2.) THE PROJECT LOCATION IS ON DAIRY ROAD AT THE ROUTE 250 BYPASS IN THE CITY OF CHARLOTTESVILLE.
- 3.) THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL DEVICES, SIGNAGE, EQUIPMENT, PERSONNEL, INCLUDING CERTIFIED TRAFFIC CONTROL PERSONNEL TO CONTROL TRAFFIC DURING CONSTRUCTION WITHIN CITY-MAINTAINED RIGHT-OF-WAY. ALL TRAFFIC CONTROL SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS, GUIDELINES, POLICIES, AND OBJECTIVES OF THE VIRGINIA WORK AREA PROTECTION MANUAL, VERSION 11.0, 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND ALL CITY PERMITS. CONTRACTOR SHALL HAVE BOTH INTERMEDIATE AND BASIS WORK ZONE TRAFFIC CONTROL CERTIFIED EMPLOYEE ON SITE AT ALL TIMES DURING LANE CLOSURES, TRAFFIC SHIFTS, AND AT LEAST DAILY TO REVIEW WORK ZONE.
- 4.) THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING AREAS FOR EQUIPMENT STORAGE AND STAGING OF MATERIALS. ALL COSTS FOR TCD AND E&S REQUIREMENTS FOR LAYDOWN YARD SHALL BE INCIDENTAL WITH OTHER ITEMS WITH NO SEPERATE PAYMENT THERETO.
- 5.) THE WORK ZONE SHALL BE MAINTAINED ACCORDING TO THE TEMPORARY TRAFFIC CONTROL PLANS AS SHOWN IN THE CONTRACT DOCUMENTS.
- 6.) THE FOLLOWING TRAFFIC CONTROL SPECIFICATIONS FROM THE VIRGINIA WORK AREA PROTECTION MANUAL REVISION 2 APPLY TO THIS PROJECT: TTC-10, TTC-40, TTC-160, TTC-340, TTC-350, TTC-450, TTC-480, AND OTHERS AS REQUIRED.
- 7.) MAXIMUM CHANNELIZING DEVICE SPACING SHALL BE AS FOLLOWS:
 - A) DAIRY ROAD:
 - i. TRAVELWAY SPACING - 40'
 - ii. TRANSITION SPACING - 20'
 - B) ROUTE 250 BYPASS:
 - i. TRAVELWAY SPACING - 80'
 - ii. TRANSITION SPACING - 40'
- 8.) ENTRANCES ALONG DAIRY ROAD WILL BE AFFECTED BY THE WORK ZONE AND ACCESS SHALL BE MAINTAINED AT ALL TIMES.
9. THIS MOT PLAN HAS BEEN DESIGNED UNDER THE ASSUMPTION THAT THE FOLLOWING TYPES OF TRAFFIC UTILIZE THE WORK ZONE: COMMUTERS, SCHOOL BUSES, TRANSIT BUSES, PEDESTRIANS, PASSENGER VEHICLES, BICYCLES, AND TRUCKS.
10. ALL AREAS EXCAVATED BELOW THE EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE (NOT PROTECTED BY BARRIER), AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACK-FILLED TO FORM AN APPROXIMATE 6" WEDGE, AGAINST THE EXISTING PAVEMENT SURFACE FOR SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. THE 6" WEDGE SHALL PRESENT NO MORE THAN A 2" DROP OFF FROM THE EDGE OF PAVEMENT WITHIN THE WORK ZONE CLEAR ZONE. ALL COST OF PLACING, MAINTAINING, AND REMOVING THE WEDGE SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE 6" WEDGE SHALL BE REMOVED IN ITS ENTIRETY PRIOR TO PLACEMENT OF SUBBASE AGGREGATE AND/OR ASPHALT AS REQUIRED BY THE INSPECTOR.
11. NIGHT TIME WORK HOURS ARE ALLOWABLE AS DESCRIBED ALLOWABLE BY THE CITY OF CHARLOTTESVILLE AND UPON APPROVAL BY THE ENGINEER.
12. ALLOWABLE WORK HOURS SHALL BE FROM 7AM TO 9PM MONDAY THROUGH SATURDAY EXCEPT HOLIDAYS AND WHEN NIGHT WORK IS APPROVED BY THE ENGINEER AND CITY TRAFFIC ENGINEER. ALLOWABLE LANE CLOSURE HOURS ARE TO BE DETERMINED. WORK PERFORMED OUTSIDE THESE HOURS THAT IS NOT SPECIFICALLY ALLOWED FOR IN WRITING BY ENGINEER WILL BE IMMEDIATELY SHUT DOWN BY THE INSPECTOR AND/OR CITY.
13. WORK DURATION FOR THIS PROJECT HAS BEEN ESTIMATED TO TAKE 12 MONTHS WITH THE MOT SHOWN.
14. THE CONTRACTOR SHALL BE REQUIRED TO AND MAINTAIN ACCESS TO THE ADJACENT PEDESTRIAN BRIDGE AT ALL TIMES, EXCEPT WHEN THE WORK REQUIRES SHORT-TERM CLOSURE FOR SAFETY REASONS. SUCH CLOSURES CAN ONLY BE MADE UPON APPROVAL OF A REQUEST MADE OF THE ENGINEER.

PUBLIC COMMUNICATIONS PLAN

THE CONTRACTOR IS TO COORDINATE WITH THE CITY OF CHARLOTTESVILLE TO PUBLISH ANNOUNCEMENTS REGARDING WORK ACTIVITIES FOR THIS PROJECT. EACH ACTIVITY WILL BE GOVERNED BY THE TIMES ESTABLISHED BY THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL PROVIDE LANE CLOSURE INFORMATION A MINIMUM OF TWO WEEKS IN ADVANCE OF WORK SO IT CAN BE PUBLISHED. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A TWO WEEK LOOK AHEAD EVERY WEDNESDAY BY NOON TO AID IN THE CITY NOTIFYING PUBLIC OF WORK ACTIVITIES.

TRANSPORTATION OPERATIONS PLAN

- 1.) THE CONTRACTOR OR THE INSPECTOR (AS IDENTIFIED BELOW) SHALL BE RESPONSIBLE FOR NOTIFICATION THE DAY PRIOR TO LANE CLOSURES EACH DAY BY CALLING THOSE BELOW AND OTHERS AS REQUIRED:
 - A) CONTRACTOR SHALL CALL THE PROJECT INSPECTOR: TBD
 - B) INSPECTOR SHALL NOTIFY THE CONSTRUCTION MANAGER: TBD
 - C) INSPECTOR SHALL NOTIFY THE CITY PROJECT MANAGER: TBD
- 2.) THE FOLLOWING IS A LIST OF LOCAL EMERGENCY CONTACT AGENCIES:
 - CITY OF CHARLOTTESVILLE POLICE DEPARTMENT: (434) 970-3280 OR 911 (IN EMERGENCY)
- 3.) PROCEDURES TO RESPOND TO TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE ARE GENERALLY AS FOLLOWS:
 - A) CONTRACTOR TO NOTIFY THE INSPECTOR.
 - B) CONTRACTOR TO REQUEST PRESENCE OF EMERGENCY MEDICAL SERVICES AS APPROPRIATE (911 IN EMERGENCY) OR IF NOT ALREADY ON SCENE OR ENROUTE.
 - C) THE INSPECTOR SHALL NOTIFY THE CONSTRUCTION MANAGER: TBD
 - D) THE CONSTRUCTION MANAGER SHALL NOTIFY THE CITY PROJECT MANAGER: TBD
 - E) DEPENDING ON THE SEVERITY OF INCIDENT, AND IF DIRECTED BY THE INSPECTOR, THE CONTRACTOR MAY BE DIRECTED TO CEASE OPERATIONS TEMPORARILY TO ALLOW FOR CLEARANCE OF THE INCIDENT.
 - F) UPON ARRIVAL ON SCENE, CITY OF CHARLOTTESVILLE POLICE DEPARTMENT STAFF WILL DETERMINE RESPONSE NECESSARY TO ALLOW TRAVELING PUBLIC AROUND THE INCIDENT.
 - G) THE CITY OF CHARLOTTESVILLE POLICE DEPARTMENT WILL TAKE CONTROL OF THE INCIDENT AND DIRECT ITS CLEARING AND RESTORATION TO NORMAL TRAFFIC OPERATIONS. THE CONTRACTOR MAY BE DIRECTED BY THE INSPECTOR TO COOPERATE WITH THE CHARLOTTESVILLE POLICE DEPARTMENT TO CLEAR TRAFFIC AND RESTORE NORMAL OPERATIONS.
- 4.) IN THE EVENT OF AN INCIDENT WITHIN THE WORK ZONE THE FOLLOWING DOCUMENTATION PROCESS IS TO BE FOLLOWED DURING AND AFTER THE INCIDENT:
 - A) BE ADVISED THAT THE INSPECTOR WILL TAKE PICTURES AS NECESSARY, ESPECIALLY PICTURES OF CONTRACTOR'S WORK ZONE SET UP TO VERIFY COMPLIANCE WITH STANDARDS.
 - B) CONTRACTOR IS TO DISCUSS SITUATION WITH THE THE PROJECT INSPECTOR AND MAKE NECESSARY ADJUSTMENTS TO THE WORK ZONE IN LIGHT OF AND IN RESPONSE TO THE INCIDENT.
 - C) THE CITY OF CHARLOTTESVILLE POLICE DEPARTMENT REPORT OF THE INCIDENT WILL BE REVIEWED BY THE CITY TO DETERMINE IF ANY MODIFICATION OF THE TEMPORARY TRAFFIC CONTROL PLAN IS NECESSARY. IF IT IS DETERMINED THAT IT IS NECESSARY TO ALTER THE PLAN, THEN A MEETING WILL BE CALLED WITH THE CONTRACTOR, CITY OF CHARLOTTESVILLE PROJECT PERSONNEL, AND THE CITY OF CHARLOTTESVILLE POLICE DEPARTMENT STAFF (IF NECESSARY) TO DISCUSS MODIFICATION AND IMPLEMENTATION OF AN IMPROVED TRAFFIC CONTROL PLAN.

SEQUENCE OF CONSTRUCTION

- GENERAL SEQUENCE OF CONSTRUCTION IS AS FOLLOWS:
- STAGE 1: DEMOLISH EXISTING BRIDGE
 - STAGE 2: CONSTRUCT BRIDGE FOUNDATIONS AND PIERS.
 - STAGE 3: CONSTRUCT BRIDGE SUBSTRUCTURE OVER ROUTE 250
 - STAGE 4: CONSTRUCT BRIDGE SUPERSTRUCTURE AND APPROACHES.
- STAGE 1:
1. CONTRACTOR SHALL INSTALL PCMS SIGNS AT NOTED LOCATIONS NEAR PROJECT TO ALERT PUBLIC OF PENDING ROAD CLOSURE AND DETOUR AT LEAST ONE WEEK IN ADVANCE OF DETOUR IMPLEMENTATION. PCMS SIGNS SHALL REMAIN IN PLACE AT LEAST ONE WEEK AFTER IMPLEMENTATION OF DETOUR.
 2. CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL MEASURES TO IMPLEMENT DAIRY ROAD BRIDGE CLOSURE AND DETOUR.
 3. CONTRACTOR TO DEMOLISH DAIRY ROAD BRIDGE.
 4. CONTRACTOR SHALL USE ROUTE 250 BYPASS DETOUR ONLY WHEN OPERATIONS NECESSITATE FOR THE SAFETY OF THE TRAVELLING PUBLIC.
- STAGE 2:
1. CONTRACTOR TO CLOSE OUTSIDE LANE OF ROUTE 250 IN NIGHT-TIME OPERATIONS ONLY TO COMPLETE FOUNDATION AND PIER WORK.
- STAGE 3, PHASE 1:
1. CONTRACTOR TO CLOSE ROUTE 250 BYPASS EB USING THE STAGING DETOUR.
 2. CONTRACTOR TO DELIVER AND PREPARE GIRDERS 3 & 4.
- STAGE 3, PHASE 2:
1. CONTRACTOR TO CLOSE ROUTE 250 BYPASS USING DETOUR.
 2. CONTRACTOR TO ERECT GIRDERS 3 & 4.
 3. CONTRACTOR TO REOPEN ROUTE 250 TO TRAFFIC.
- STAGE 3, PHASE 3:
1. CONTRACTOR TO CLOSE ROUTE 250 BYPASS EB USING THE STAGING DETOUR.
 2. CONTRACTOR TO DELIVER AND PREPARE GIRDERS 1 & 2.
- STAGE 3, PHASE 4:
1. CONTRACTOR TO CLOSE ROUTE 250 BYPASS USING DETOUR.
 2. CONTRACTOR TO ERECT GIRDERS 1 & 2.
 3. CONTRACTOR TO REOPEN ROUTE 250 TO TRAFFIC.
- STAGE 3 PHASE 5:
1. CONTRACTOR TO CLOSE ROUTE 250 BYPASS USING DETOUR.
 2. CONTRACTOR TO INSTALL CROSS FRAMES BETWEEN GIRDERS 3 & 4 AND FORMS.
 3. CONTRACTOR TO REOPEN ROUTE 250 TO TRAFFIC.
- STAGE 4:
1. CONTRACTOR TO COMPLETE BRIDGE SUPERSTRUCTURE.
 2. CONTRACTOR TO COMPLETE UTILITY, DRAINAGE, ROADWAY APPROACH WORK AND REMOVE ALL DETOUR SIGNAGE.
 3. CONTRACTOR TO REOPEN DAIRY ROAD TO TRAFFIC.

90% PLANS

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PROJECT MANAGER NAJEEBULLAH BEHNAM (434-459-9763) (CITY OF CHARLOTTEVILLE)
 SURVEYED BY, DATE H&B Survey and Mapping, LLC 11/11/2024
 DESIGN BY Kimley-Horn & Associates, Inc.
 SUBSURFACE UTILITY BY, DATE INFRAMAP CORP. 10/30/2024

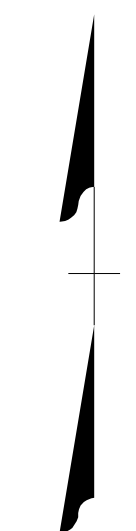
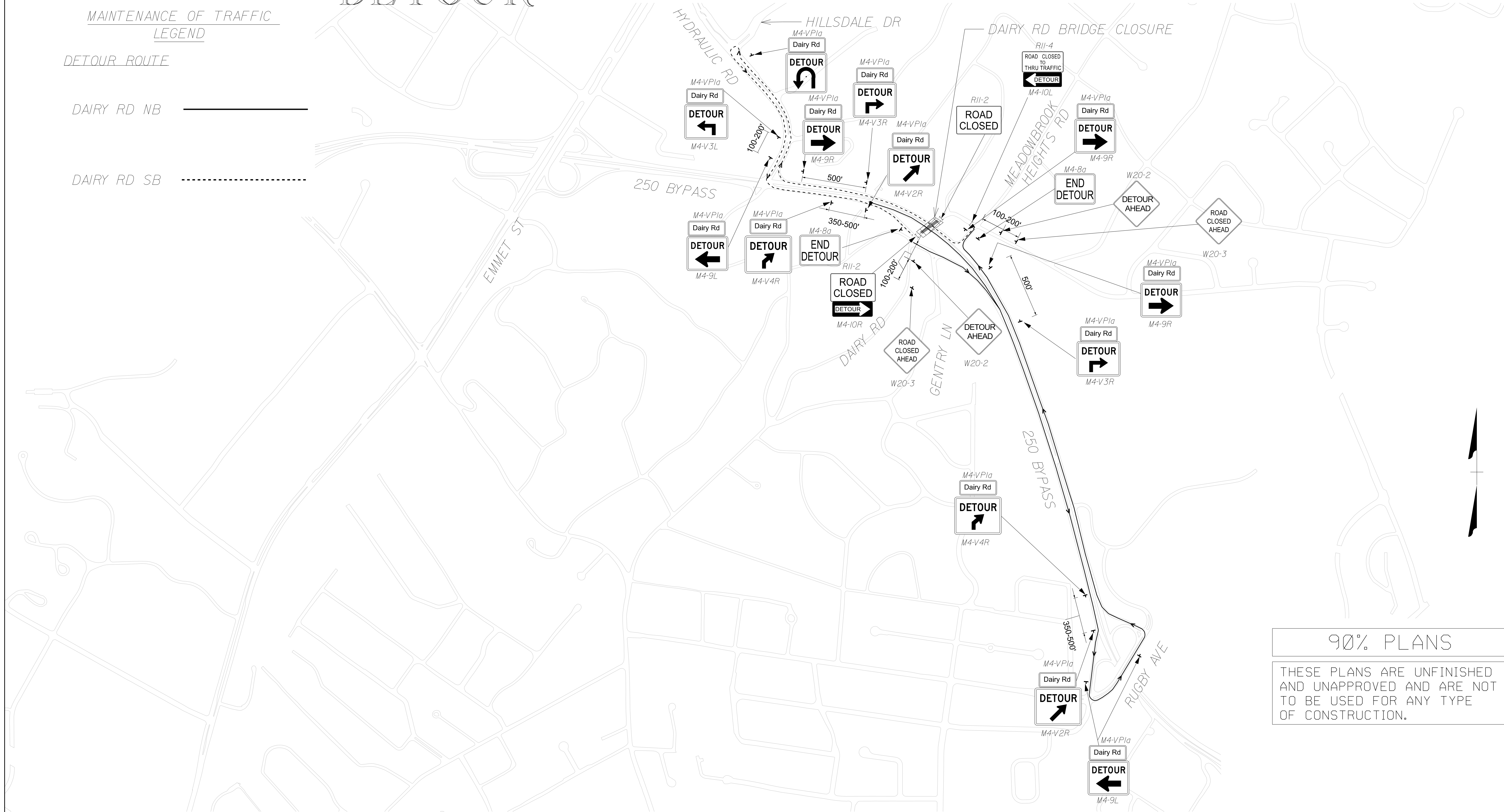
MAINTENANCE OF TRAFFIC - DAIRY RD DETOUR

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 C-501	1H(1)

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

Kimley-Horn & Associates
 Charlottesville, Virginia
 ROADWAY ENGINEER

- MAINTENANCE OF TRAFFIC LEGEND
- DETOUR ROUTE
- DAIRY RD NB —————
- DAIRY RD SB - - - - -



90% PLANS

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SCALE 0 400' 800'	PROJECT U000-104-365	SHEET NO. 1H(1)
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 C-501	IH(2)

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

Kimley-Horn & Associates
Charlottesville, Virginia
ROADWAY ENGINEER

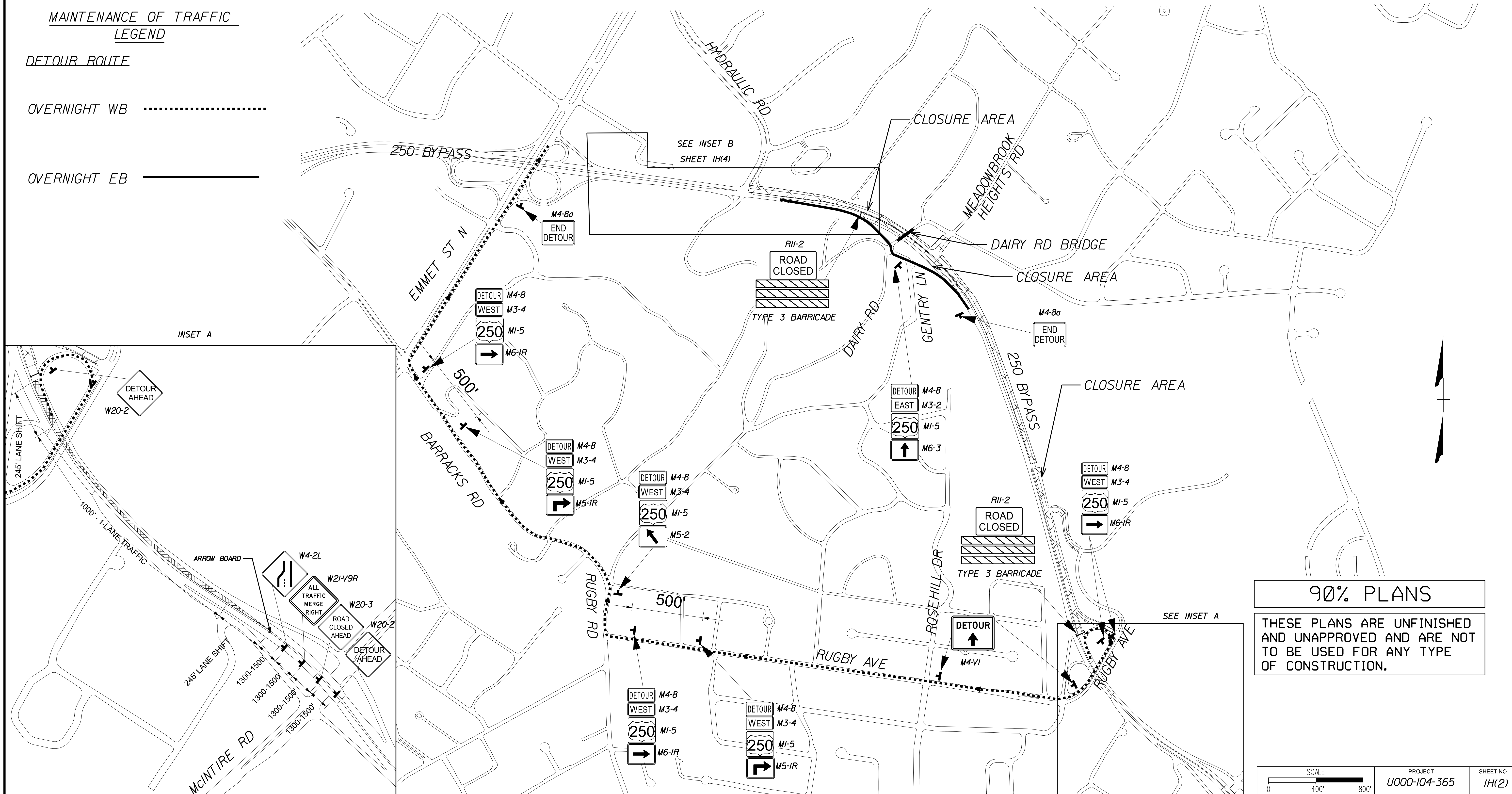
MAINTENANCE OF TRAFFIC - OVERNIGHT DETOUR

MAINTENANCE OF TRAFFIC LEGEND

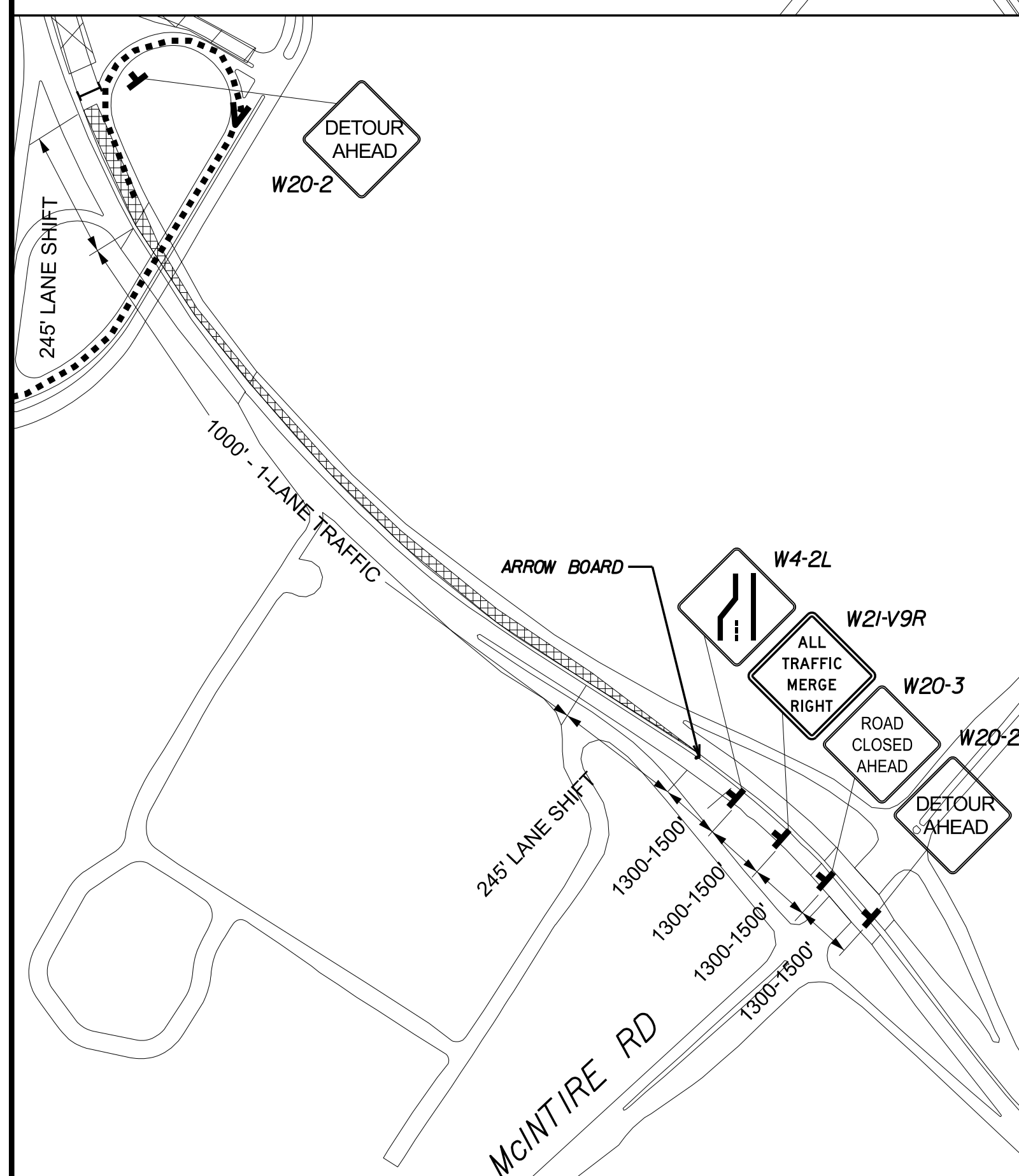
DETOUR ROUTE

OVERNIGHT WB (dashed line)

OVERNIGHT EB _____ (solid line)



INSET A



90% PLANS

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 C-501	IH(3)

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

Kimley-Horn & Associates
 Charlottesville, Virginia
 ROADWAY ENGINEER

MAINTENANCE OF TRAFFIC - OVERNIGHT DETOUR

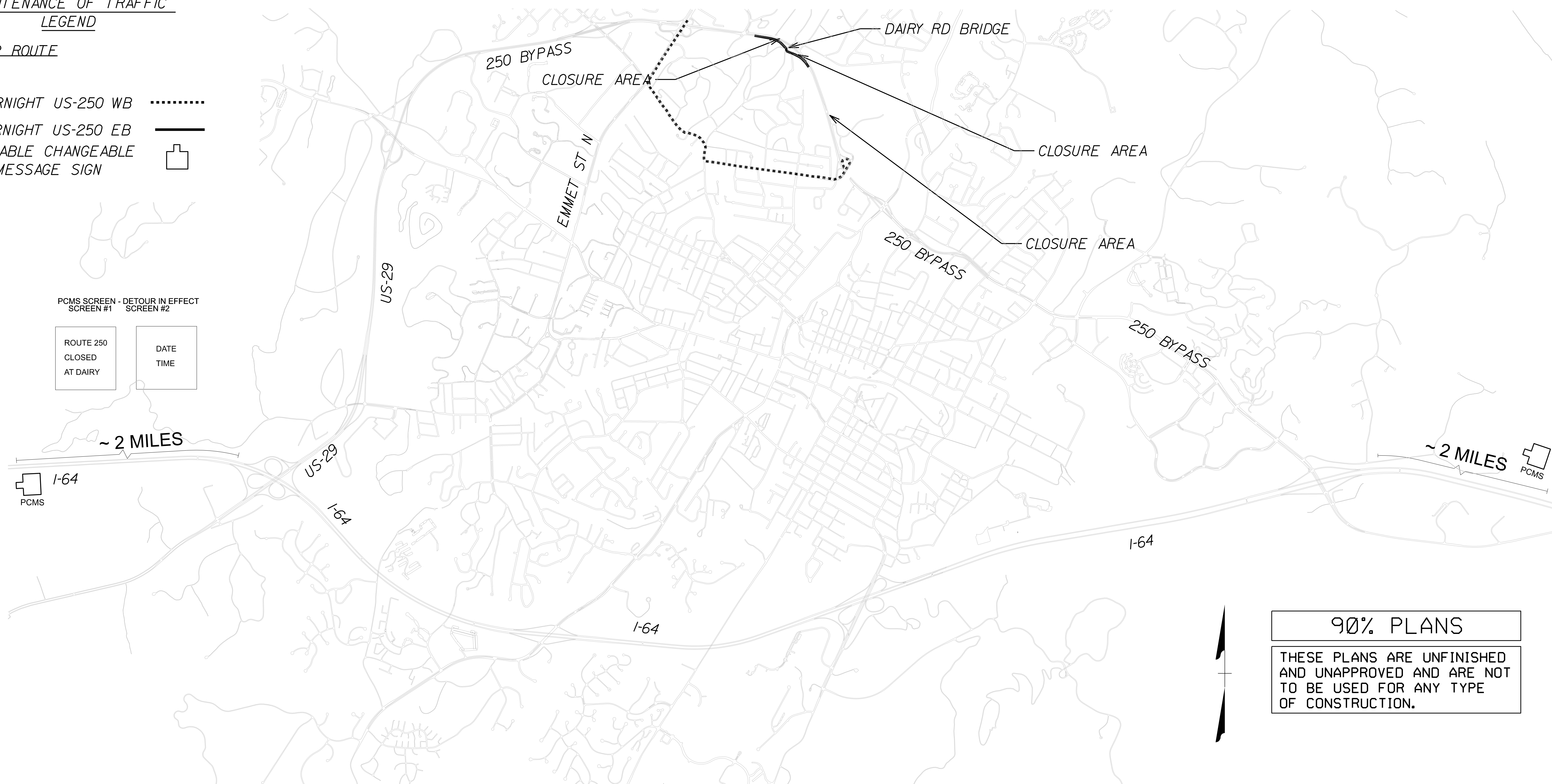
MAINTENANCE OF TRAFFIC LEGEND

DETOUR ROUTE

- OVERNIGHT US-250 WB (dotted line)
- OVERNIGHT US-250 EB ——— (solid line)
- PORTABLE CHANGEABLE MESSAGE SIGN 

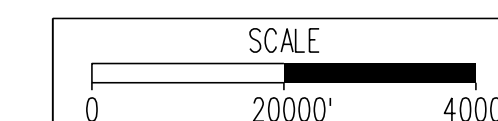
PCMS SCREEN - DETOUR IN EFFECT
 SCREEN #1 SCREEN #2

ROUTE 250 CLOSED AT DAIRY	DATE TIME
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90% PLANS

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PROJECT
 U000-104-365

SHEET NO.
 IH(3)

PROJECT MANAGER NAJEEBULLAH BEHNNAM (434-459-9763) (CITY OF CHARLOTTESVILLE)
 SURVEYED BY, DATE H&B Survey and Mapping, LLC 11/11/2024
 DESIGN BY Kimley-Horn & Associates, Inc.
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 C-501	IH(4)

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

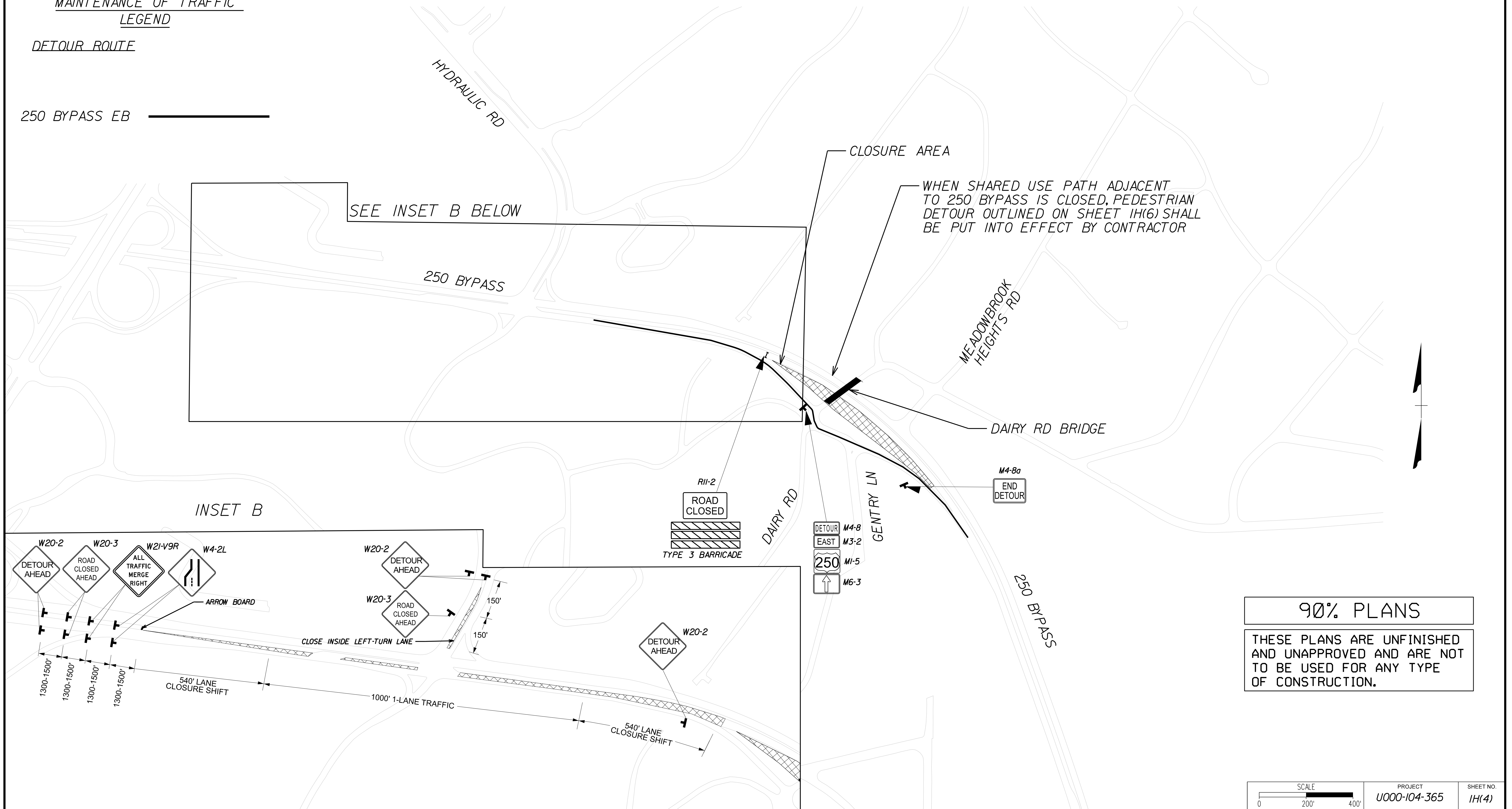
Kimley-Horn & Associates
Charlottesville, Virginia
ROADWAY ENGINEER

MAINTENANCE OF TRAFFIC STAGING DETOUR

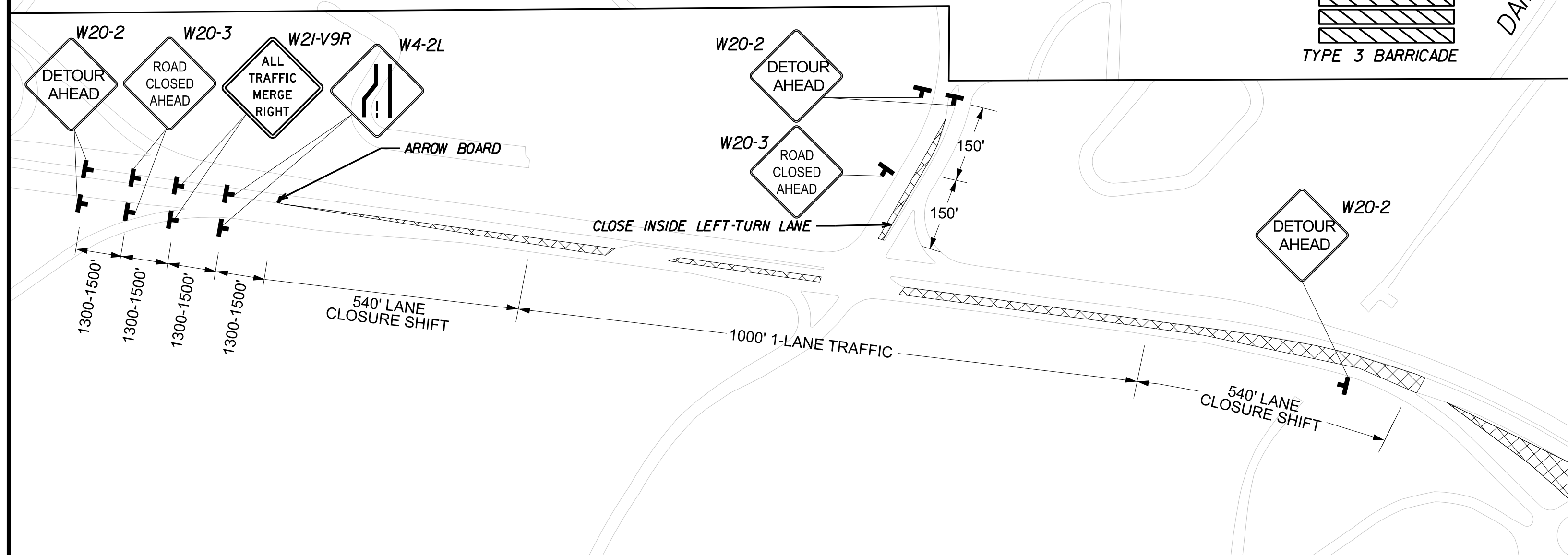
MAINTENANCE OF TRAFFIC LEGEND

DETOUR ROUTE

250 BYPASS EB



INSET B



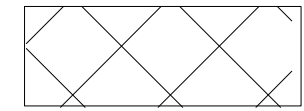
90% PLANS
 THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

REVISED	STATE	SHEET NO.
VA.	N/A	1H(5)
PROJECT		
U000-104-365		
C-501		
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT		
Kimley-Horn & Associates Charlottesville, Virginia ROADWAY ENGINEER		

MAINTENANCE OF TRAFFIC PEDESTRIAN DETOUR

LEGEND:

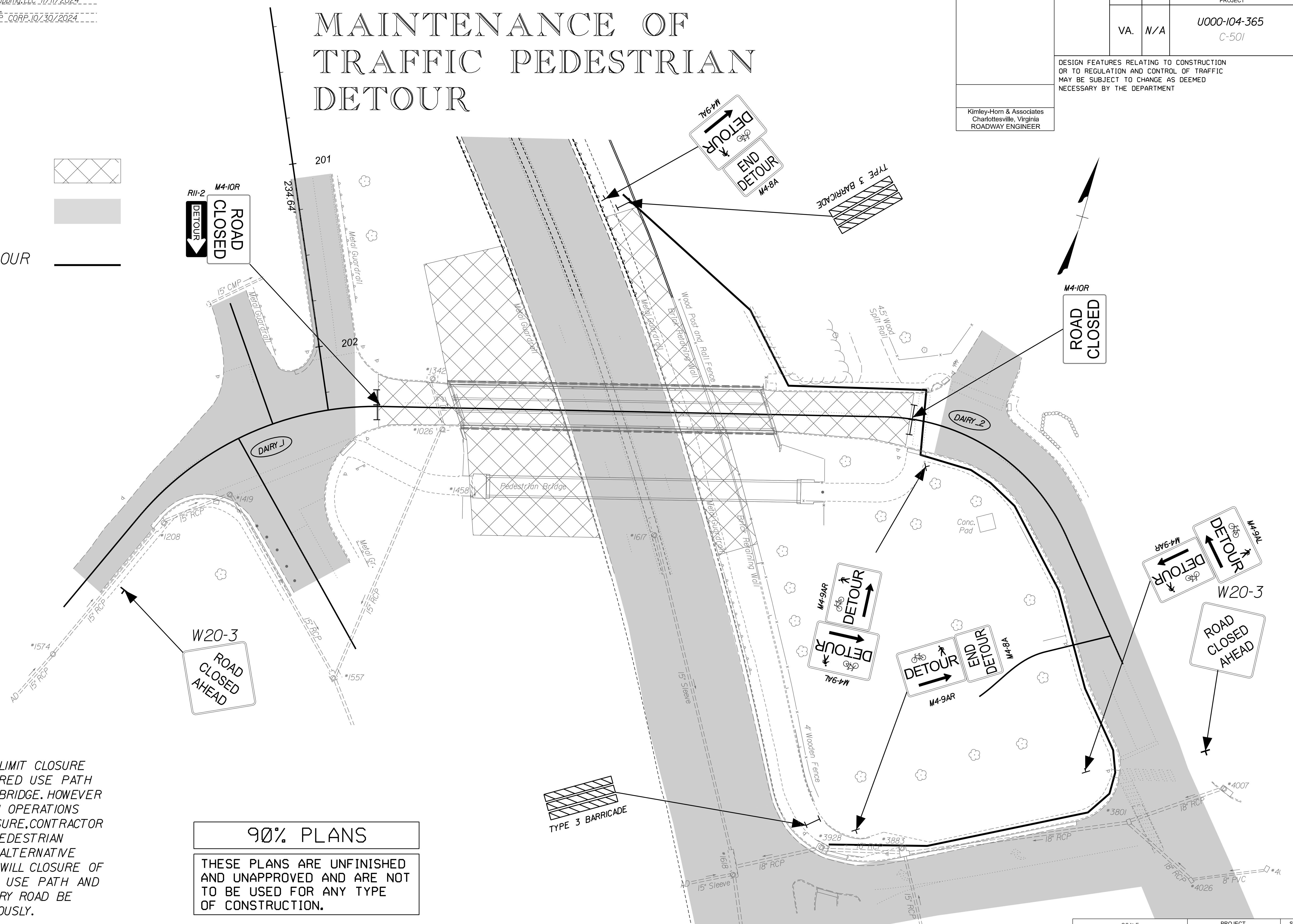
WORK AREA



TRAFFIC AREA



PEDESTRIAN DETOUR ROUTE



NOTE:

CONTRACTOR SHALL LIMIT CLOSURE OF ROUTE 250 SHARED USE PATH BELOW DAIRY ROAD BRIDGE. HOWEVER WHEN CONSTRUCTION OPERATIONS REQUIRE PATH CLOSURE, CONTRACTOR SHALL IMPLEMENT PEDESTRIAN DETOUR SHOWN AS ALTERNATIVE PATH. AT NO TIMES WILL CLOSURE OF ROUTE 250 SHARED USE PATH AND SIDEWALK ALONG DAIRY ROAD BE ALLOWED SIMULTANEOUSLY.

90% PLANS
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PROJECT MANAGER NAJEEBULLAH BEHNNAM (434-459-9763) (CITY OF CHARLOTTEVILLE)
SURVEYED BY, DATE H&B Survey and Mapping, LLC 11/11/2024
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SUBSURFACE UTILITY BY, DATE INFRAMAP CORP. 10/30/2024

GENERAL NOTES

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 C-501	2

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

GRADING

- G-1 The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.
- 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: Sidewalk, Curb, Curb and Gutter, Bricks, Blocks, Pipes, Drainage Structures, etc.
- G-5 The excavation of unsuitable material as specified on these plans is based on previously conducted subsurface soil investigation. If, during construction, it is deemed necessary to change the depth more than one foot, or the limits of such excavation, such change is to be made at the direction of the Engineer and measurement and payment shall be made in accordance with Section 303 of the applicable VDOT Road and Bridge Specifications.
- G-6 The borrow material for this project shall be a minimum CBR 5 or as approved by the Materials Engineer.

DRAINAGE

- 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.
- 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 Contractor shall confer with, and get approval from, the Engineer before installing the culvert or storm sewer outfall pipe.
- 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.
- D-7 All pipe on this project shall be RCP. For strength, sheet, 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 applicable sections of the VDOT Road and Bridge Standards PC-1.
- D-10 The proposed riprap may be omitted by the Engineer if the slope designated for placement of riprap is found to be comprised of solid rock or closely consolidated boulders with soundness, size, and weight equal to, or exceeding, the specifications for the proposed riprap.
- D-12 All existing drainage facilities labeled "To Be Abandoned" shall be left in place, backfilled and plugged in accordance with the VDOT Road and Bridge Standard 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.
- D-14 Proposed drop inlets with a height (H) less than the standard minimum shown in the VDOT Road and Bridge Standards 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 Road and Bridge Standards.
- D-16 When CG-6 or CG-7 is specified on a radius (such as at a street intersection), the Engineer may approve a decrease in the cross slope of the gutter to facilitate proper drainage.

PAVEMENT

- P-1 If any settlement occurs in concrete pavement adjacent to bridges prior to acceptance of the project by the City, the contractor shall restore the pavement to the original grade either by the mud jack method or by replacing the pavement. In the event the pavement cracks or becomes damaged, it shall be replaced, if directed by the Engineer.

- P-2 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

- I-6 Certain trees shall be preserved as noted on plans or as directed by the Engineer.
- I-9 When no centerline alignment is shown for a proposed entrance, the entrance shall be constructed in the same location as the existing entrance.
- I-13 Salvaged guardrail materials not used in the new construction shall become the property of the City and the contractor shall deliver and store at no additional cost to the City, the unused materials at the Cities' maintenance yard during the Cities' normal working hours.
- I-16 The "underground utilities" survey data on this project has been provided by consultant and copies are available from the City.
- I-18 All pavement markings and traffic flow arrows shown on the roadway construction 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, Virginia Manual on Uniform Traffic Control Devices, Version 11.0, sequence of construction/ traffic control plans, pavement marking plan sheet 5(3), and as directed by the Engineer
- I-19 The following outside sources, under contract with VDOT, have provided information on this project.
 - Hydraulic Design - Kimley-Horn and Associates
 - Roadway Design - Kimley-Horn and Associates
 - Utility Design - Kimley-Horn and Associates
 - Traffic Design - Kimley-Horn and Associates
 - Landscape Design - Kimley-Horn and Associates
 - Survey - H&B Surveying and Mapping LLC
 - Bridge Design - Kimley-Horn
 - Subsurface Utility - INFRAMAP CORP.
 If questions or problems arise during construction, please contact the Engineer. DO NOT CONTACT THE OUTSIDE SOURCES.

- I-20 The Official Electronic PDF Version of the plans will override 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.

- I-21 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.

STORMWATER MANAGEMENT

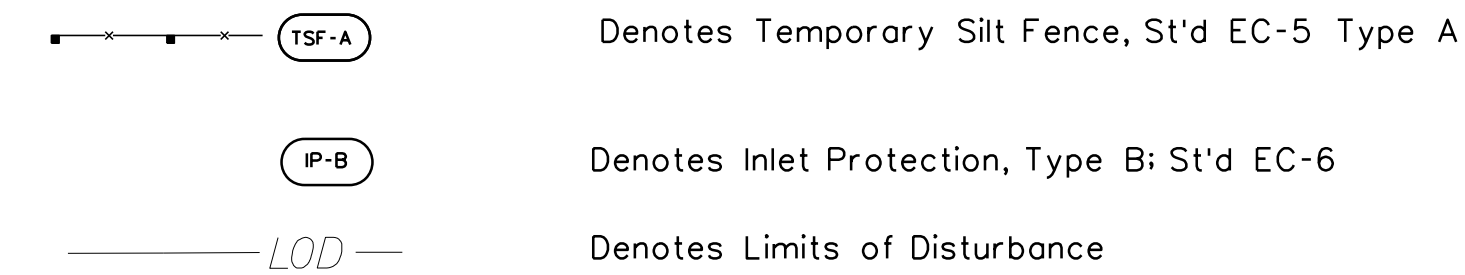
- S-1 CLEARING AND GRUBBING OF SWM BASIN SITE - The area where the dam is to be constructed and the area upstream of the dam, to an elevation equal to the crest of the dam (maximum ponded water elevation), shall be cleared and grubbed in accordance with Section 301 of the applicable VDOT Road and Bridge Specifications.
- S-2 SWM BASIN DAM CONSTRUCTION - The dam for detention basins (no permanent pool) shall conform to the details contained in the plans and shall be constructed in accordance with Section 303 of the applicable VDOT Road and Bridge Specifications. The native material on which the dam will set shall meet the specifications for AASHTO Type A-4 or finer material. Where the native material does not meet this requirement, the area beneath the dam is to be excavated a minimum of 4' and backfilled with a material meeting the AASHTO Type A-4 or finer classification unless otherwise specified in the plans. The material used for the embankment of the dam shall be AASHTO Type A-4 or finer or otherwise specified in the plans. Dams with foundation and embankment material not meeting the above requirements or dams greater than 15' in height, or dams for retention basins (permanent pool) shall incorporate a membrane-lined trench, a homogenous embankment with seepage controls, a zoned embankment or other such approved designs as specified in the plans.

- S-3 SWM BASIN OUTLET PIPE - The pipe culvert under or through the dam for detention basins (no permanent pool) shall be reinforced concrete pipe with rubber gaskets in accordance with Section 232 and 212 of the applicable VDOT Road and Bridge Specifications. A concrete cradle shall extend the full length of the pipe culvert in accordance with the Standard Drawings. The connection between the pipe culvert and the SWM-1 Drainage Structure (or other control structure) shall be made watertight as approved by the Engineer and the cost shall be included in the price bid for pipe.

- S-4 The SWM-1 Drainage Structure (or other control structure) shall have 4" high numbers and 1" wide stripes painted at 1' intervals as shown on the Standard Drawings or detail sheets. The numbers and stripes are to be installed at the time of the initial installation of the SWM-1 Drainage Structure (or other control structure). Paint and application shall be in accordance with Section 231 and 411 of the applicable VDOT Road and Bridge Specifications and the cost is to be included in the price bid for the applicable structure.

EROSION AND SEDIMENT CONTROL (ESC)

- E-2 Rock for Check Dams, Inlet Protection, Erosion Control Stone and Riprap shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge Specifications.
- E-3 Permanent vegetation shall be established on all denuded areas not otherwise stabilized with non-erodible materials. See the Roadside Development sheet for details on permanent vegetation establishment.
- E-4 The following symbols are used to depict Erosion Control items in the plan assembly:



90% PLANS

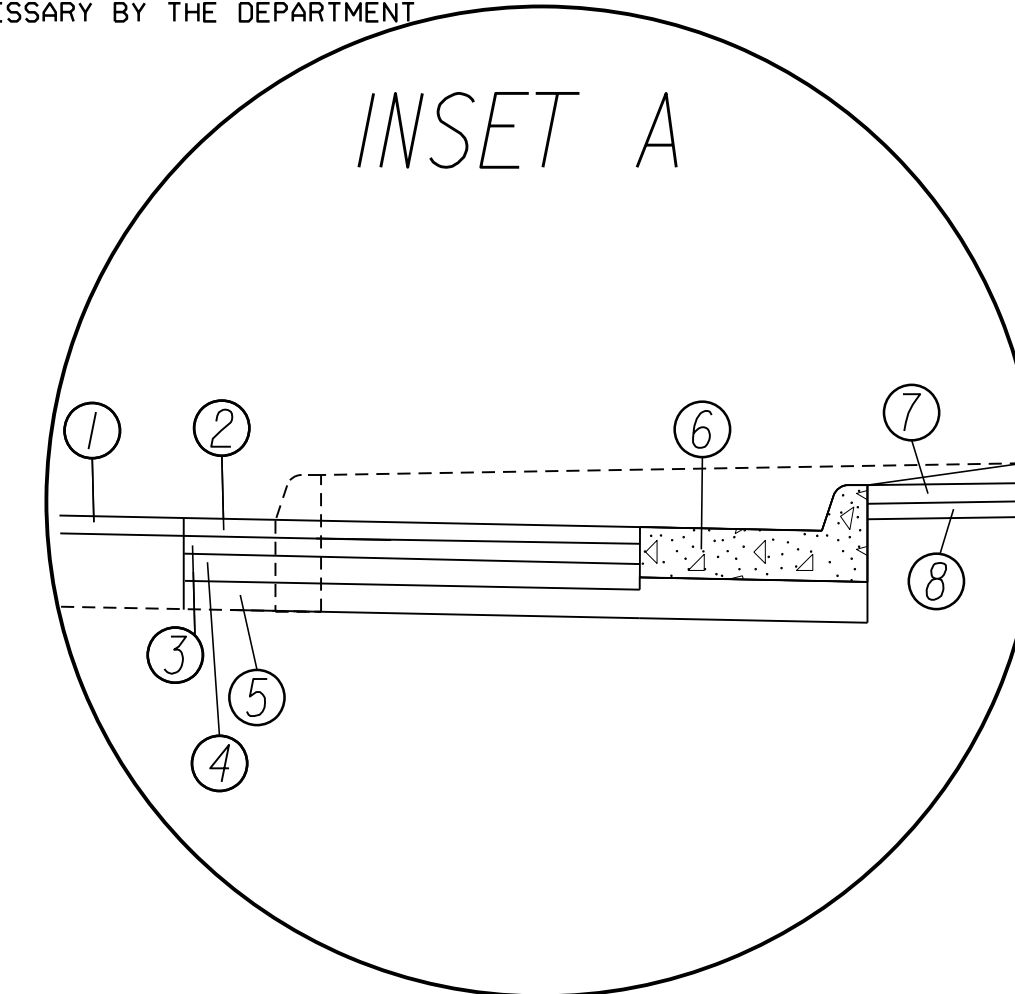
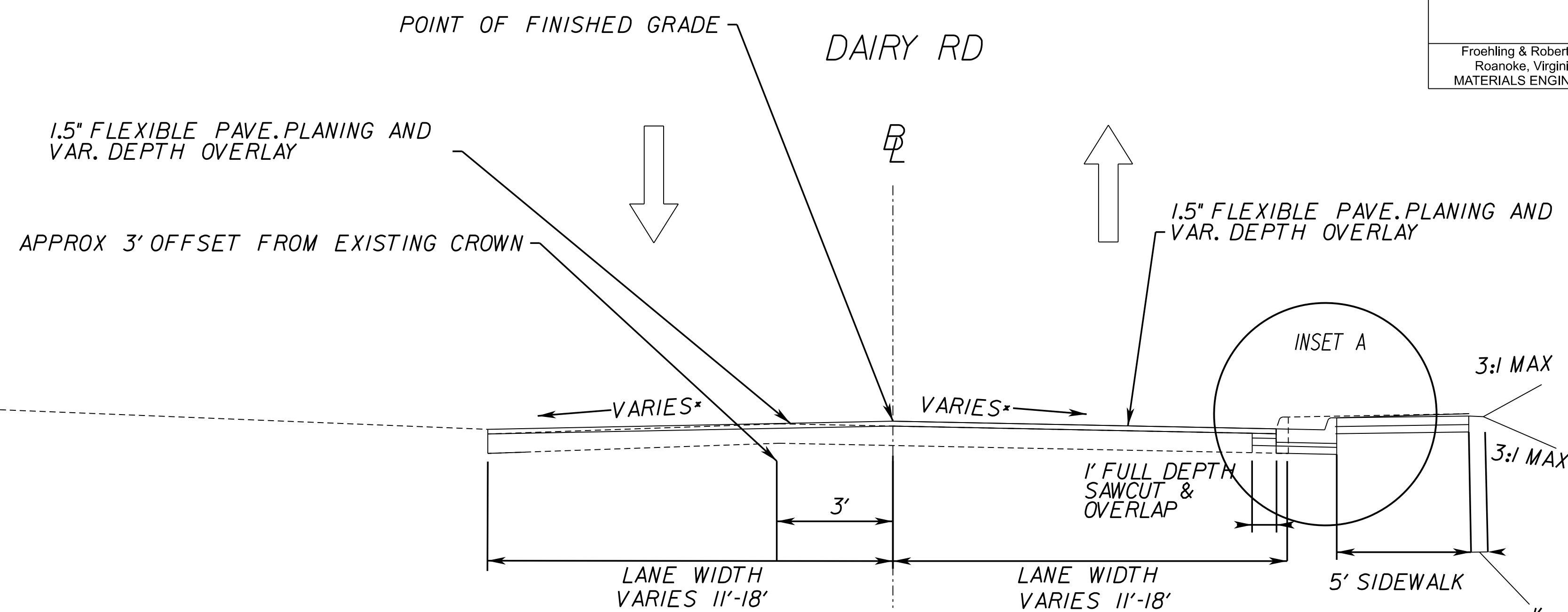
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PROJECT MANAGER NAJEEBULLAH BEHNAM (434-459-9763) (CITY OF CHARLOTTESVILLE)
SURVEYED BY, DATE H&B Survey and Mapping, LLC 11/11/2024
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SUBSURFACE UTILITY BY, DATE INFERMAP CORP. 10/30/2024

TYPICAL SECTIONS

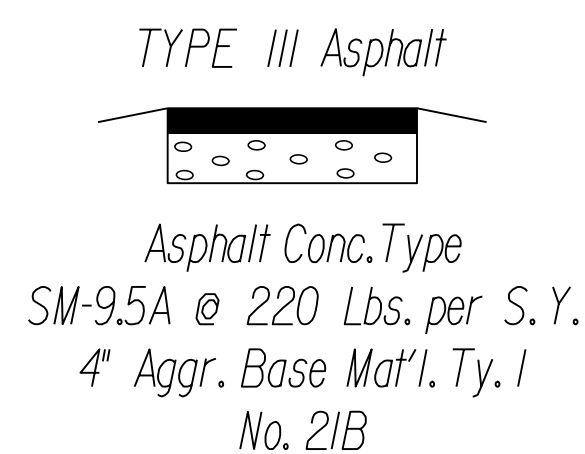
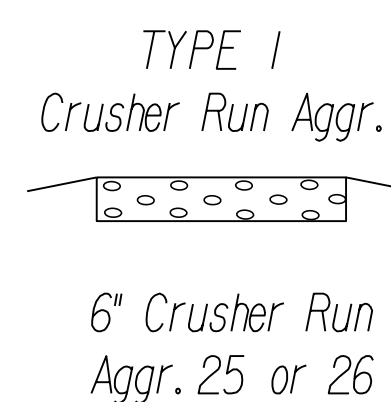
(Not to Scale)

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	N/A		U000-104-365 C-501	2A
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT					
Froehling & Robertson Roanoke, Virginia MATERIALS ENGINEER			Kimley-Horn & Associates Charlottesville, Virginia ROADWAY ENGINEER		



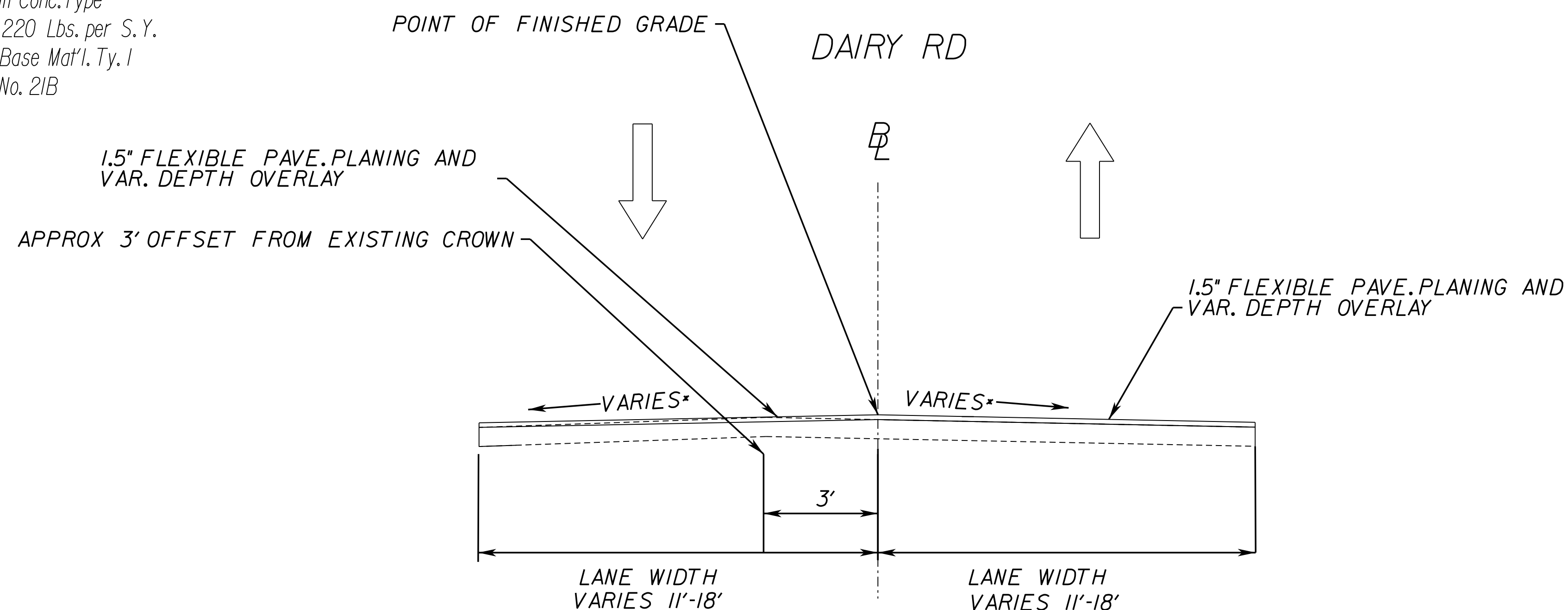
PRIVATE AND COMMERCIAL ENTRANCES

NOT TO SCALE



STA. 100+63.69 TO STA. 101+39.56

* SUPERELEVATION VARIES,
SEE CROSS-SECTIONS



STA. 101+39.56 TO STA. 101+69.64

* SUPERELEVATION VARIES,
SEE CROSS-SECTIONS

- 1 1.5" ASPHALT CONCRETE SURFACE, MILL & OVERLAY
- 2 1.5" ASPHALT CONCRETE SURFACE, TYPE SM-9.5
- 3 2" ASPHALT CONCRETE INTERMEDIATE, TYPE IM-19.0D @ 110 LB/IN
- 4 6" ASPHALT CONCRETE BASE COURSE, TYPE BM-25.0A @ 110 LB/IN
- 5 6" AGGREGATE BASE MAT'L, TY. I NO. 21B
- 6 VDOT STD. CG-6 REQ'D.
- 7 4" HYDR. CEMENT CONC. SIDEWALK
- 8 4" AGGREGATE BASE MAT'L, TY. J NO. 21B
- 9 VDOT STD. CG-3 REQ'D
- 10 VDOT STD. CG-2 REQ'D

90% PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

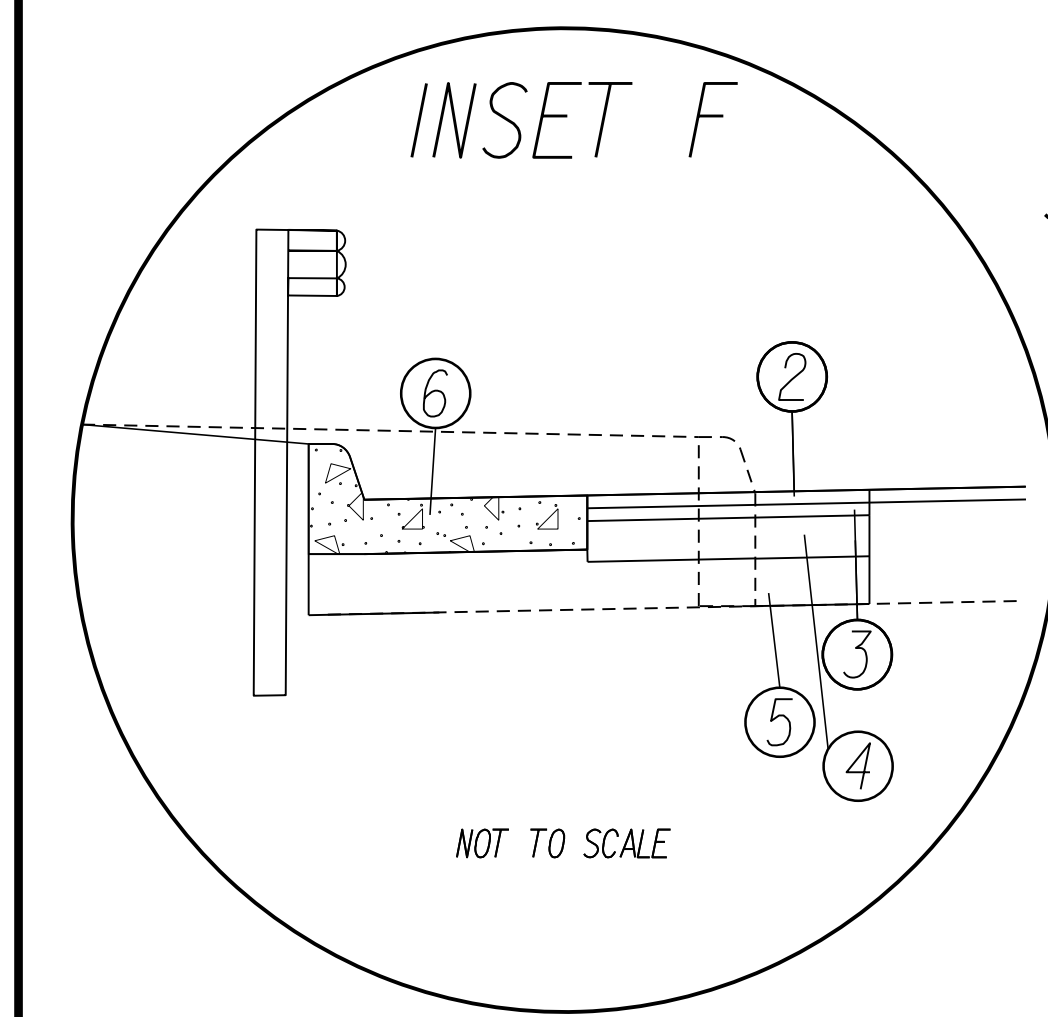
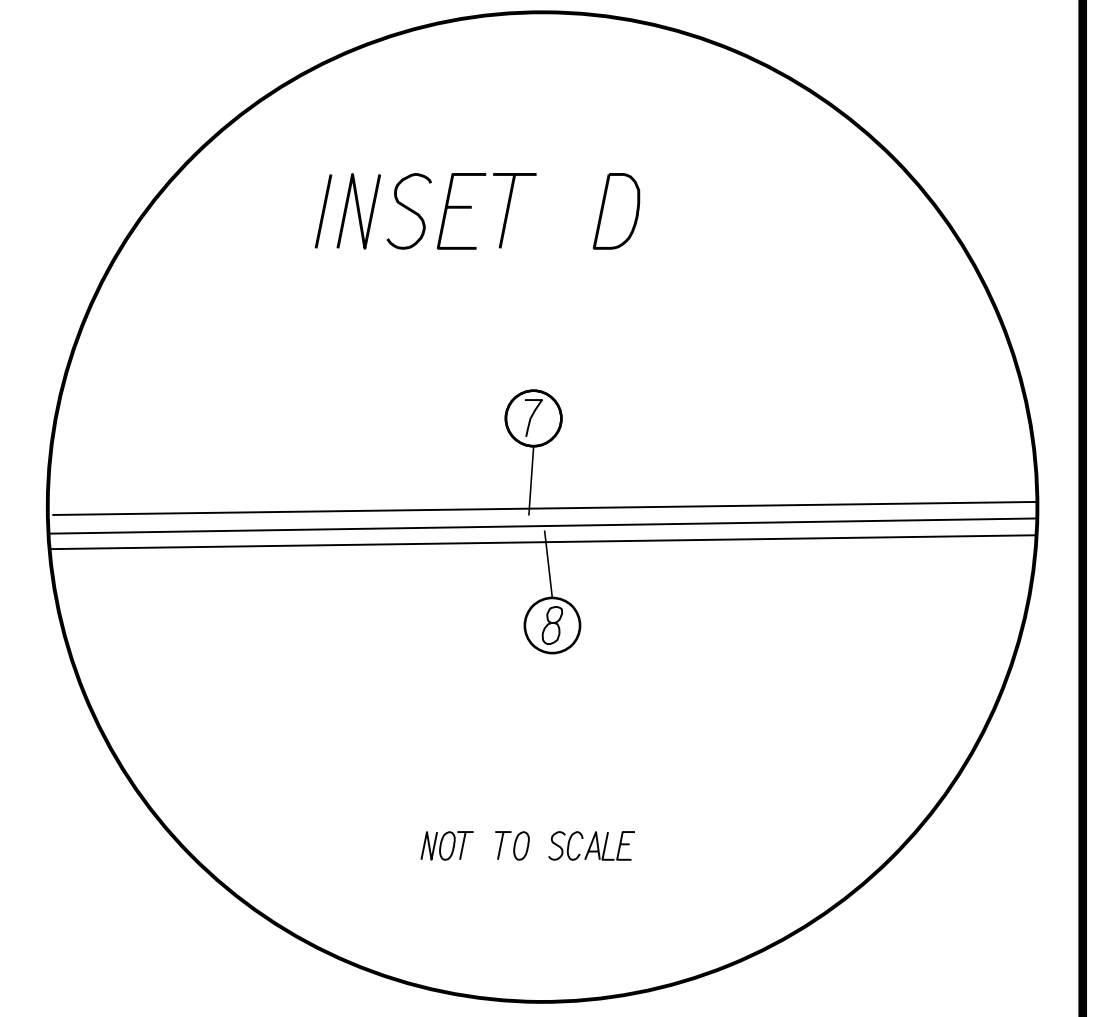
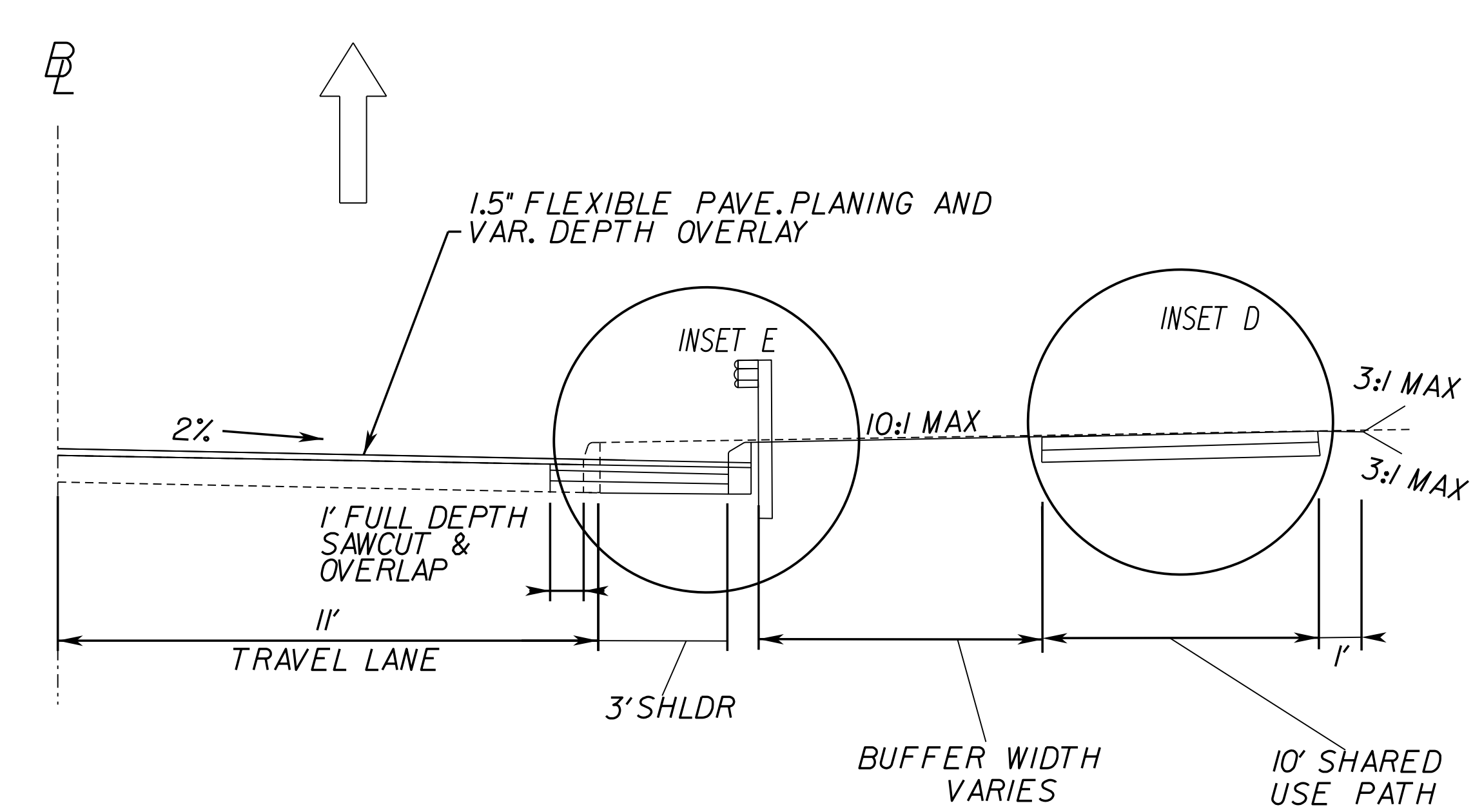
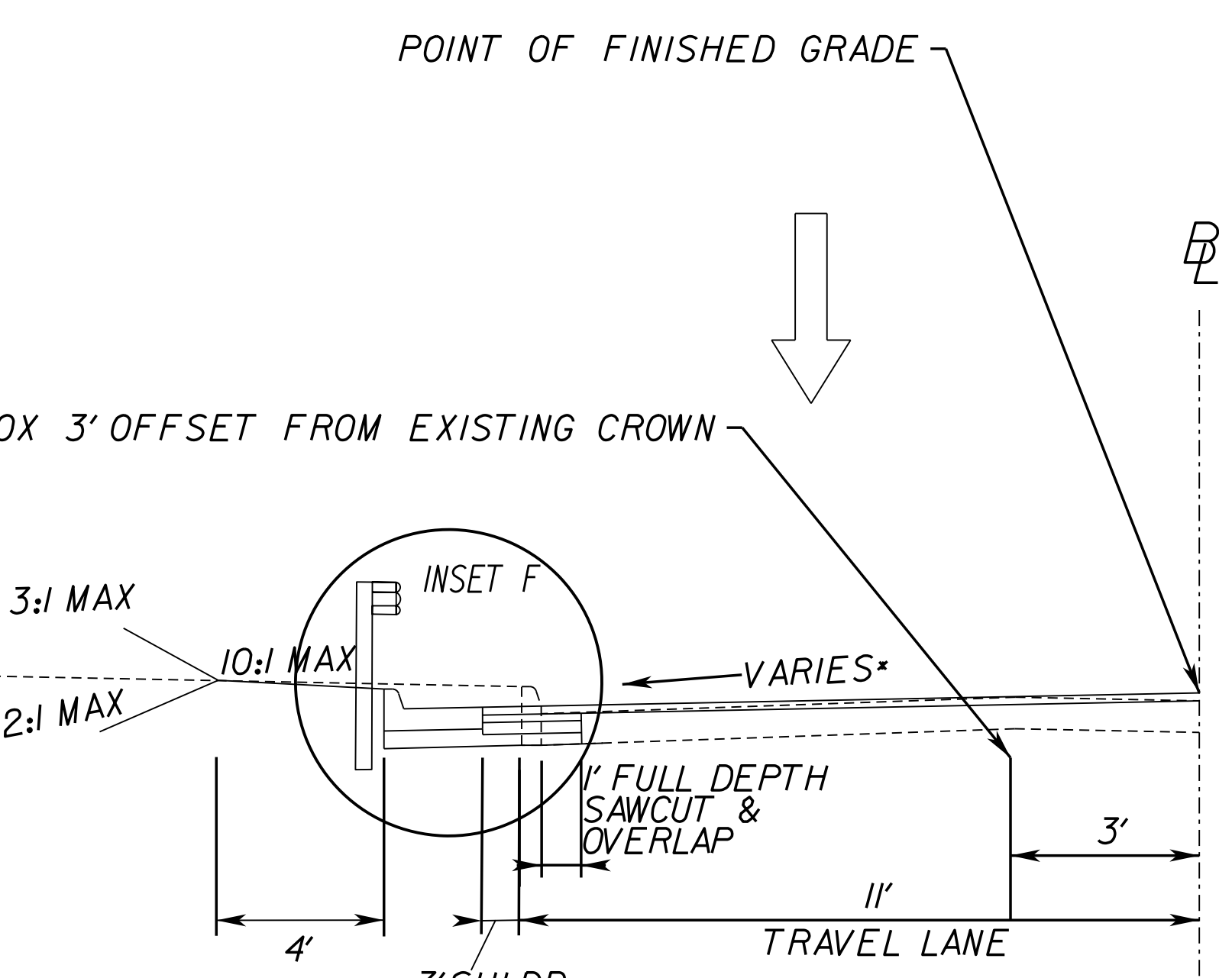
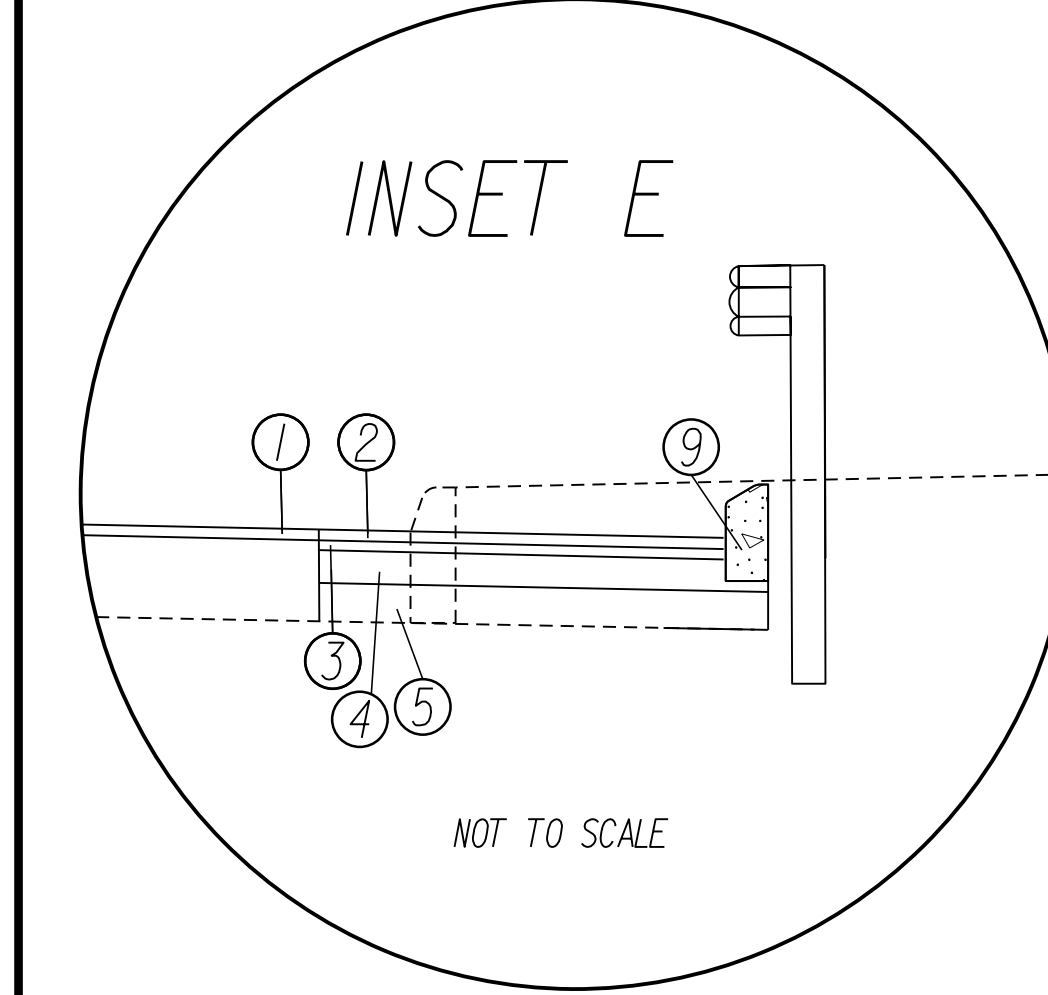
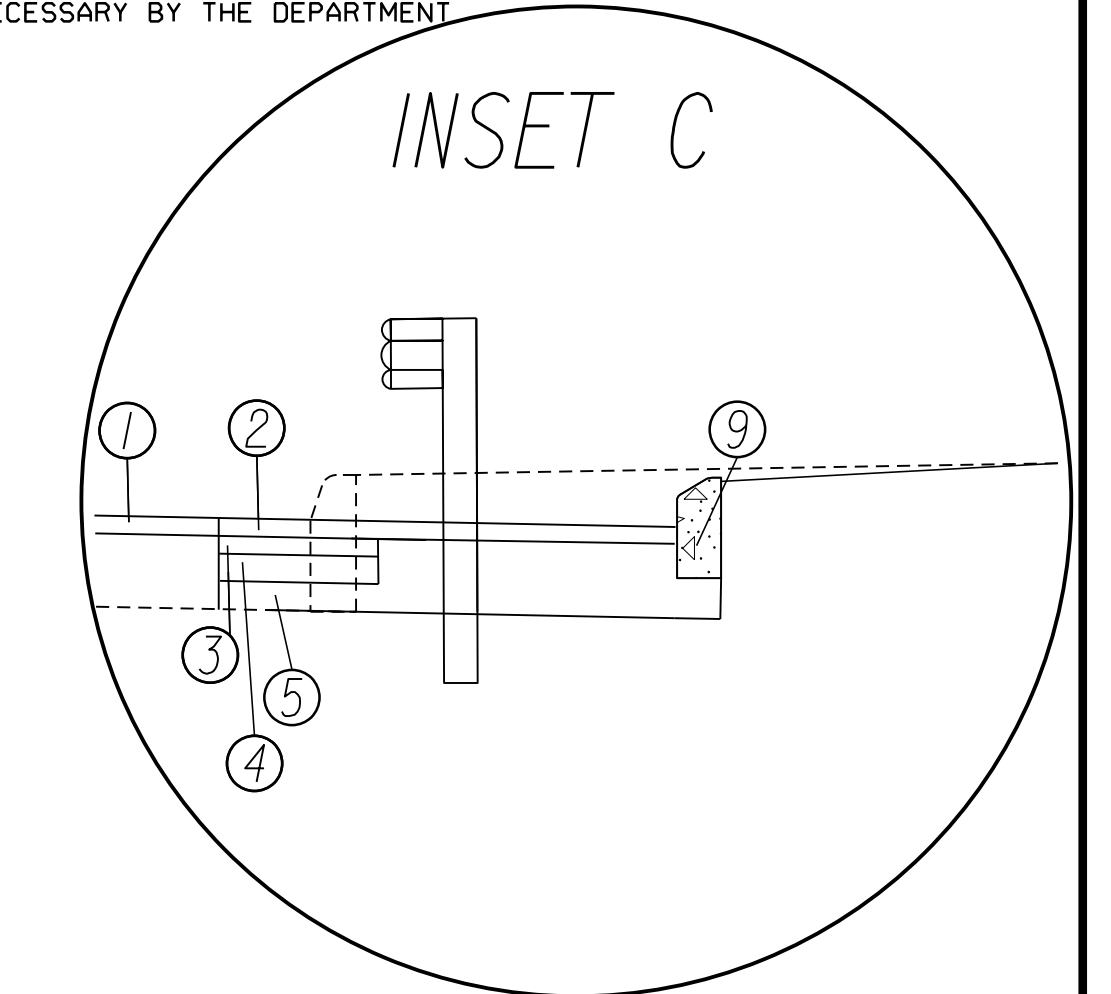
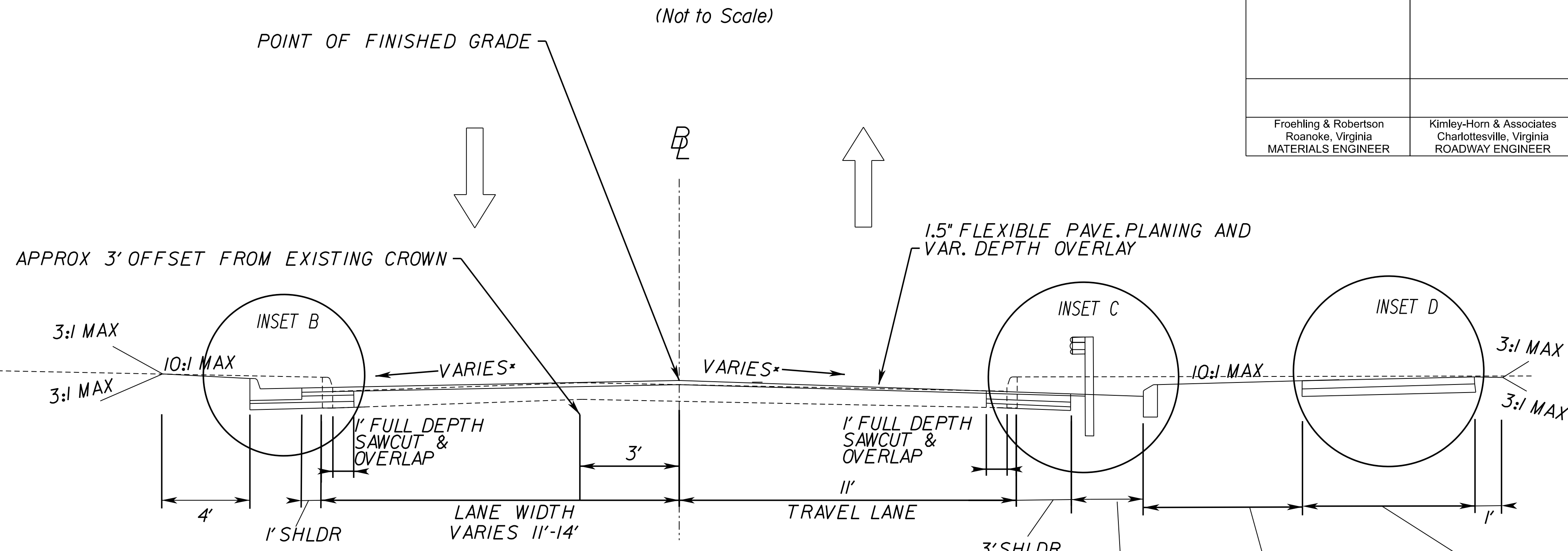
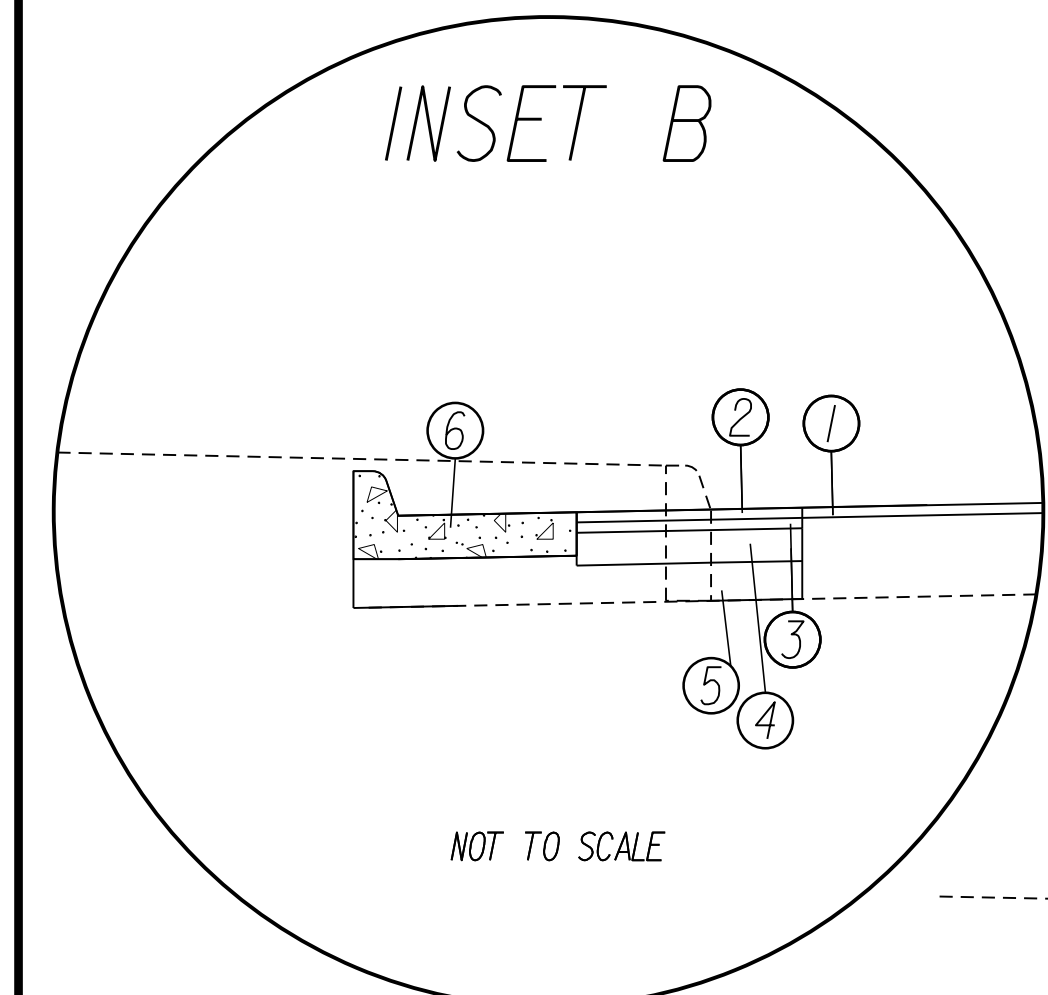
PROJECT MANAGER NAJEEBULLAH BEHNNAM (434-459-9763) (CITY OF CHARLOTTESVILLE)
SURVEYED BY, DATE H&B Survey and Mapping, LLC 11/11/2024
DESIGN BY Kimley-Horn & Associates, Inc.
SUBSURFACE UTILITY BY, DATE INFRAMAP CORP. 10/30/2024

TYPICAL SECTIONS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 C-50I	2B

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

Froehling & Robertson Roanoke, Virginia MATERIALS ENGINEER	Kimley-Horn & Associates Charlottesville, Virginia ROADWAY ENGINEER
--	---



STA. 101+97.74 TO STA. 102+31.55

- ① 1.5" ASPHALT CONCRETE SURFACE, MILL & OVERLAY
- ② 1.5" ASPHALT CONCRETE SURFACE, TYPE SM-9.5
- ③ 2" ASPHALT CONCRETE INTERMEDIATE, TYPE IM-19.0D @ 110 LB/IN
- ④ 6" ASPHALT CONCRETE BASE COURSE, TYPE BM-25.0A @ 110 LB/IN
- ⑤ 6" AGGREGATE BASE MAT'L, TY. 1 NO. 21B
- ⑥ VDOT STD. CG-6 REQ'D.
- ⑦ 4" HYDR. CEMENT CONC. SIDEWALK
- ⑧ 4" AGGREGATE BASE MAT'L, TY. J NO. 21B
- ⑨ VDOT STD. CG-3 REQ'D
- ⑩ VDOT STD. CG-2 REQ'D

90% PLANS

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PROJECT MANAGER NAJEEBULLAH BEHNAM (434-459-9763) (CITY OF CHARLOTTESVILLE)
SURVEYED BY, DATE H&B Survey and Mapping, LLC 11/11/2024
DESIGN BY Kimley-Horn & Associates, Inc.
SUBSURFACE UTILITY BY, DATE INFRAMAP CORP. 10/30/2024

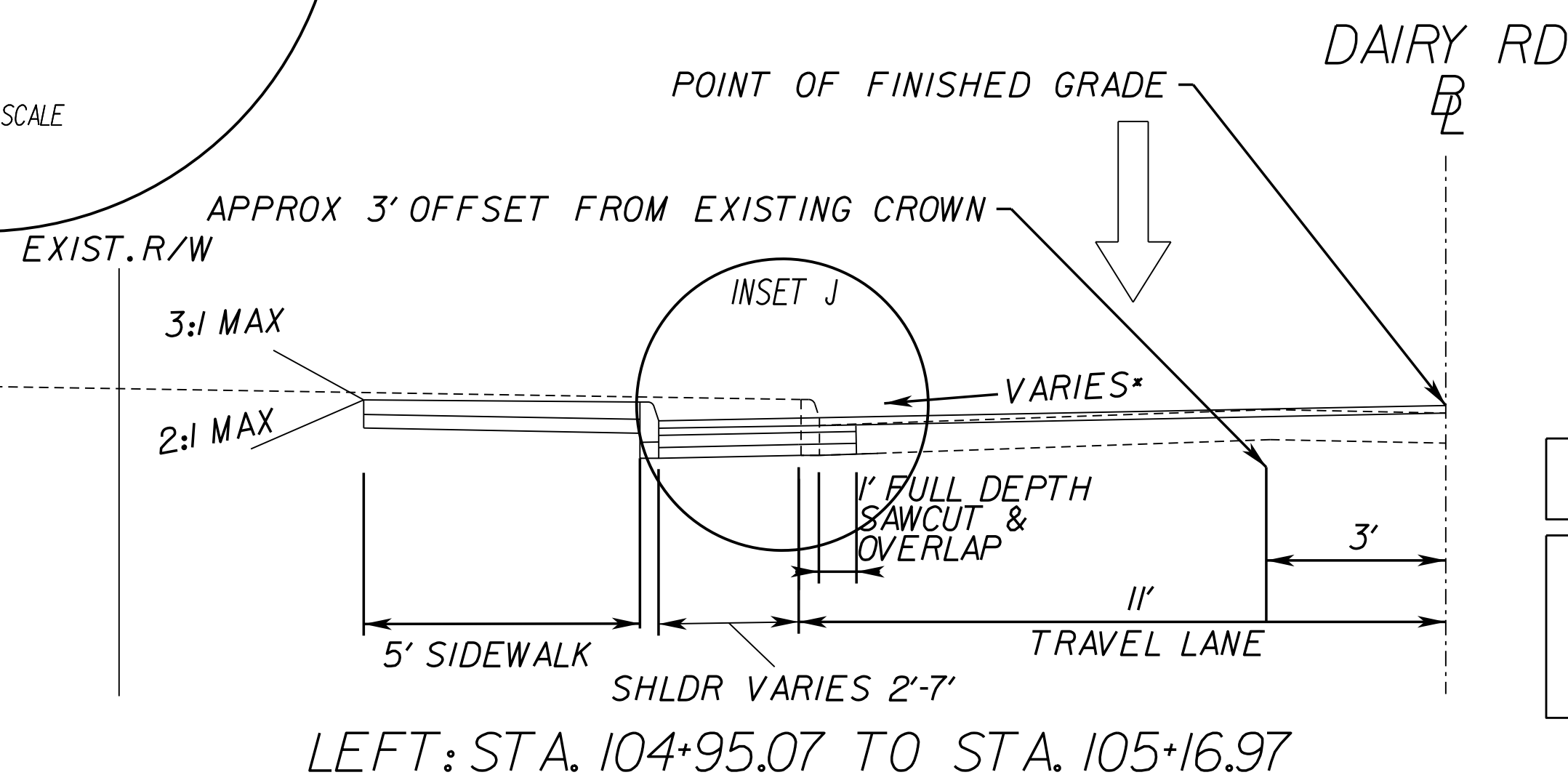
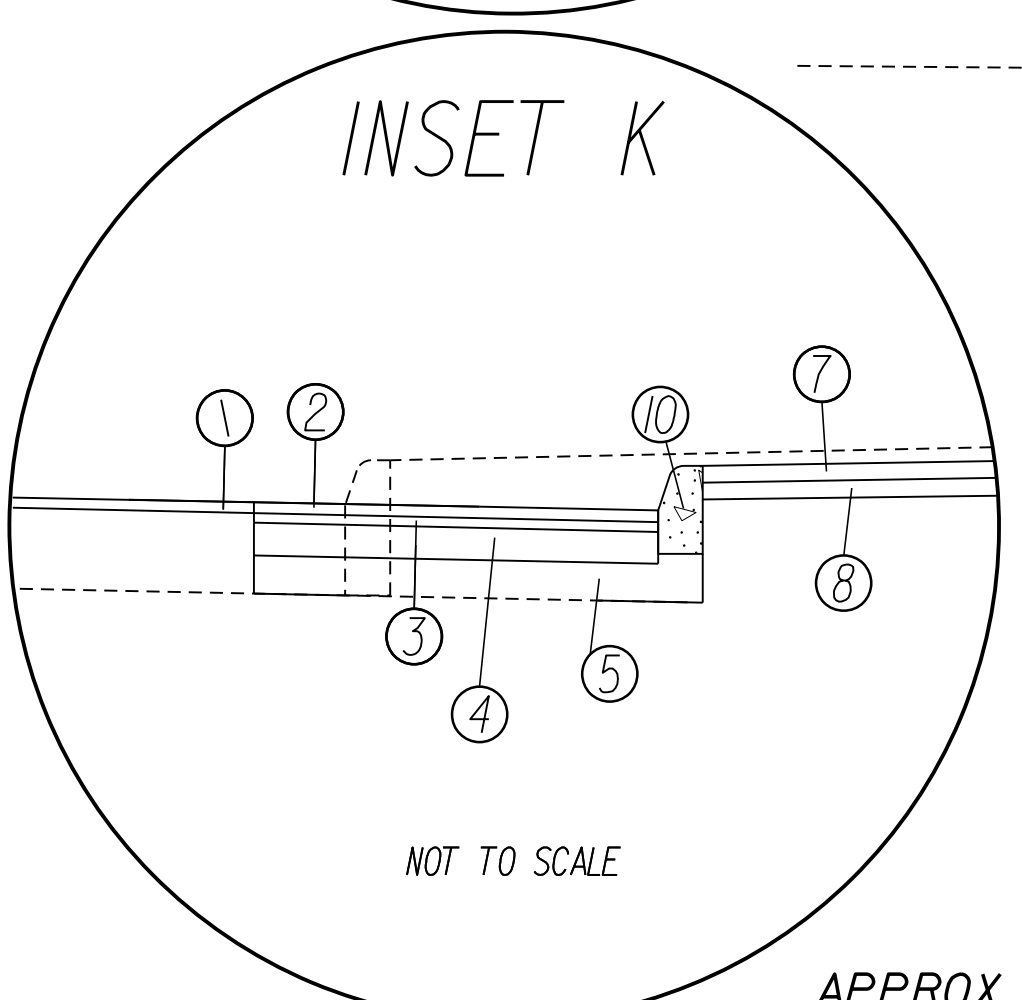
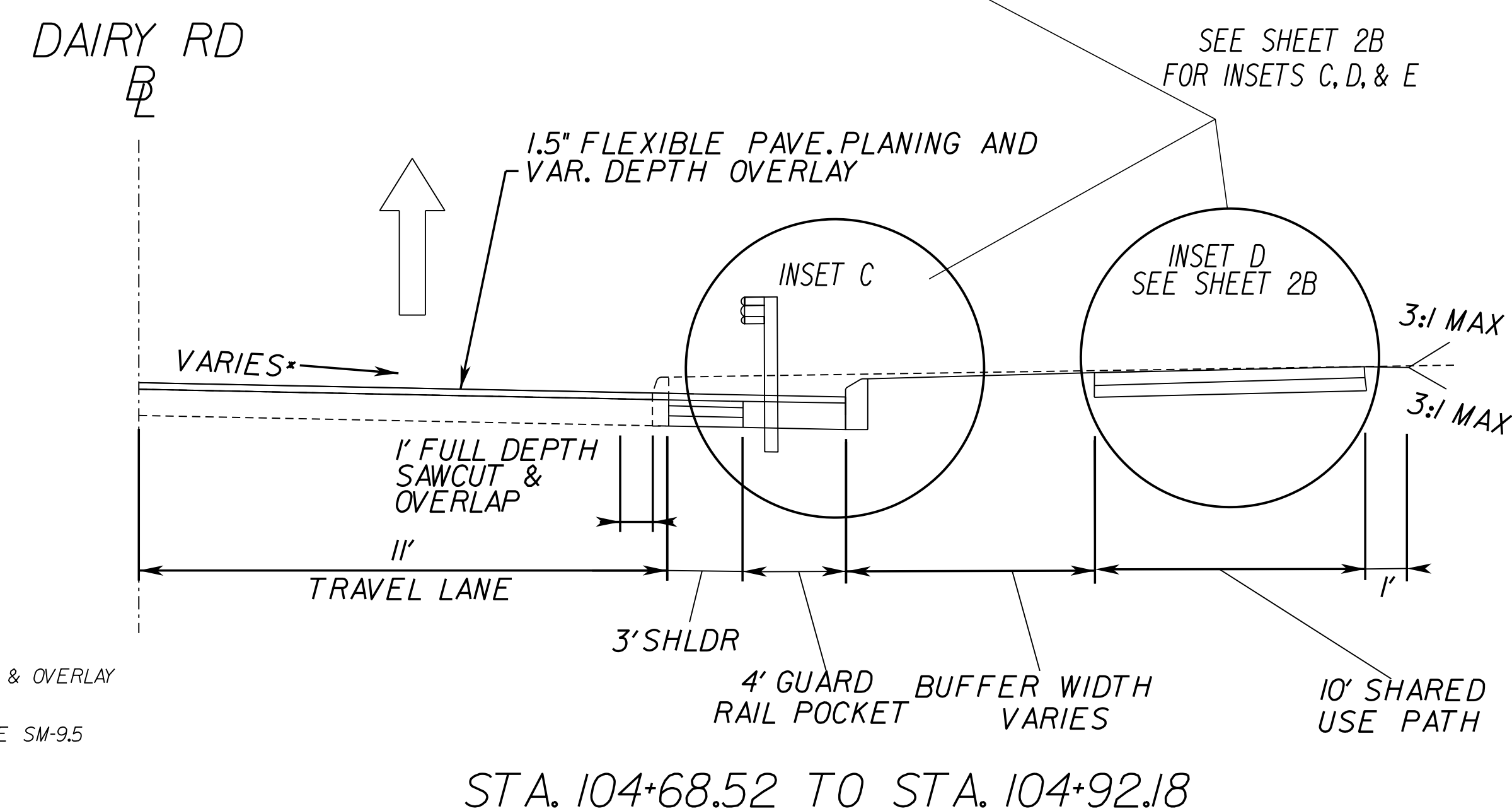
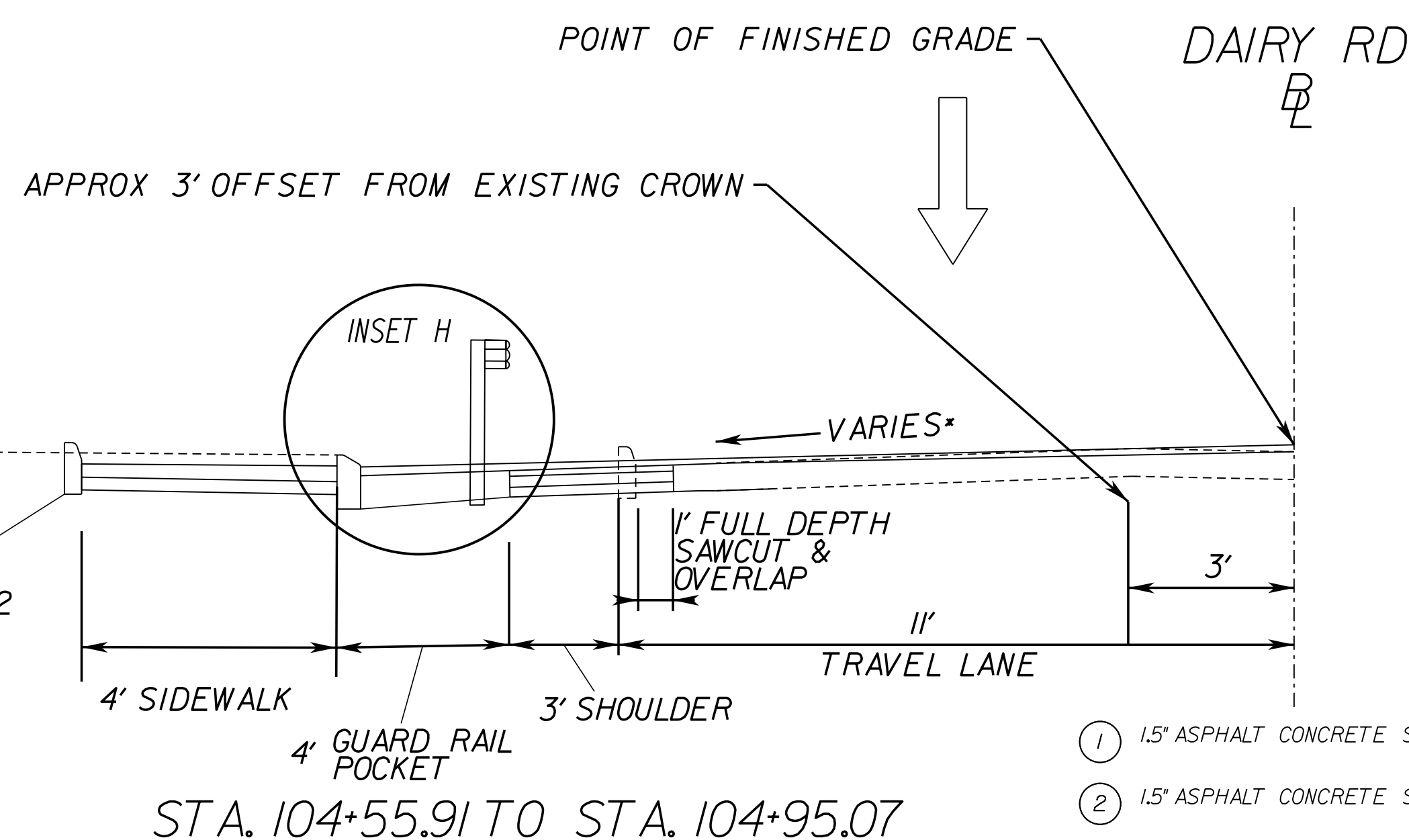
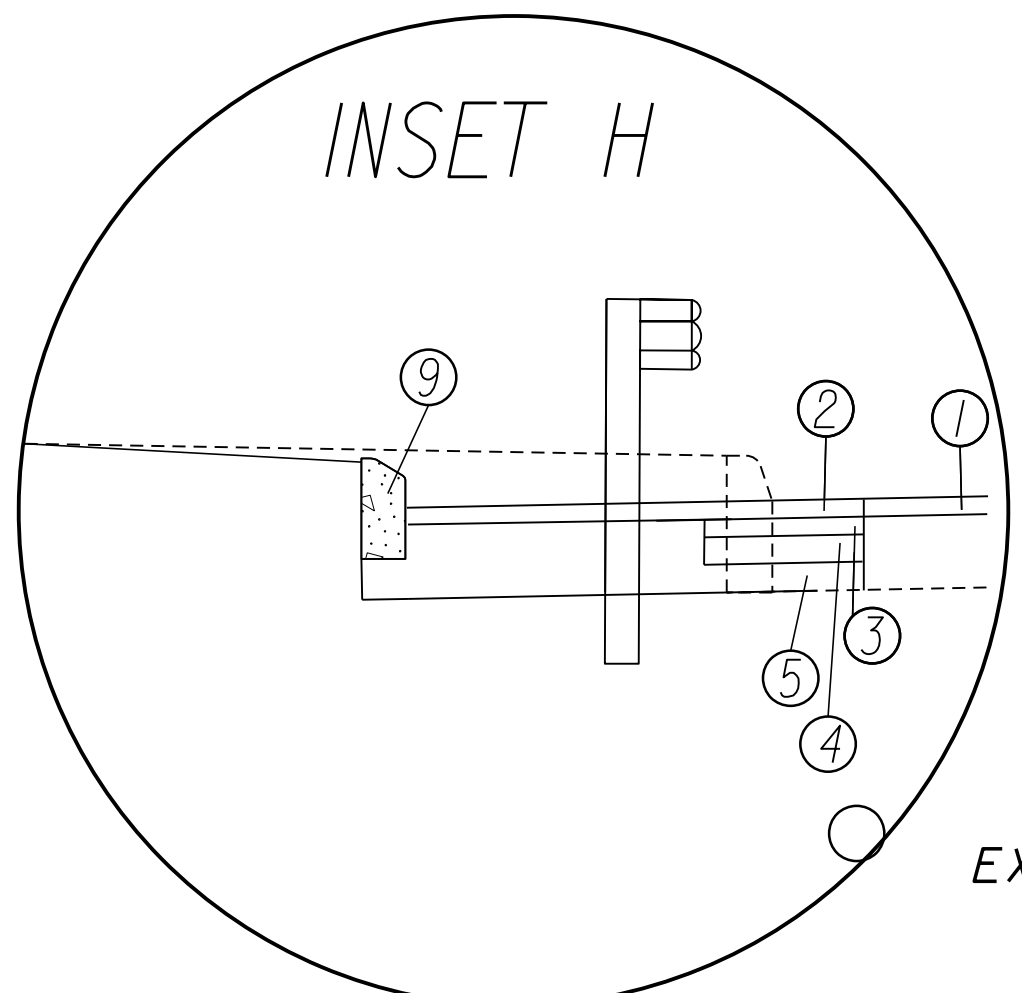
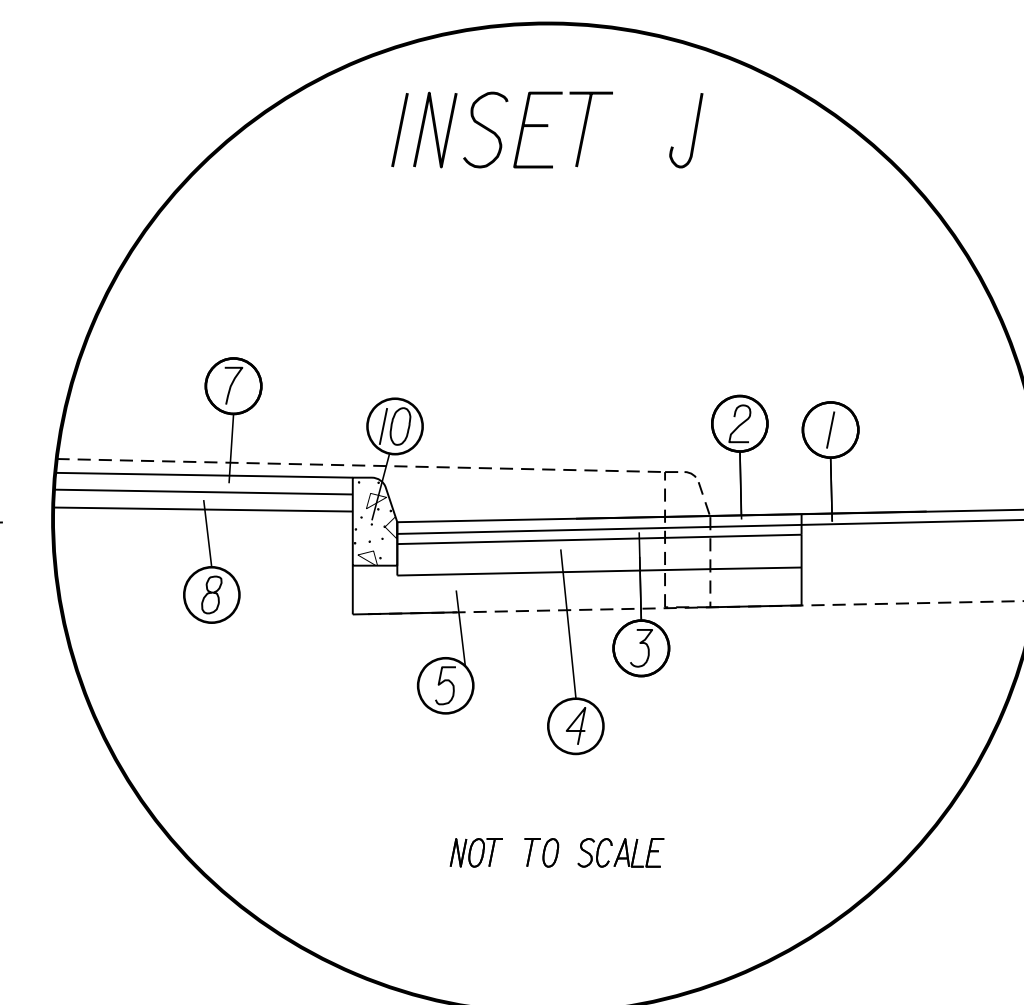
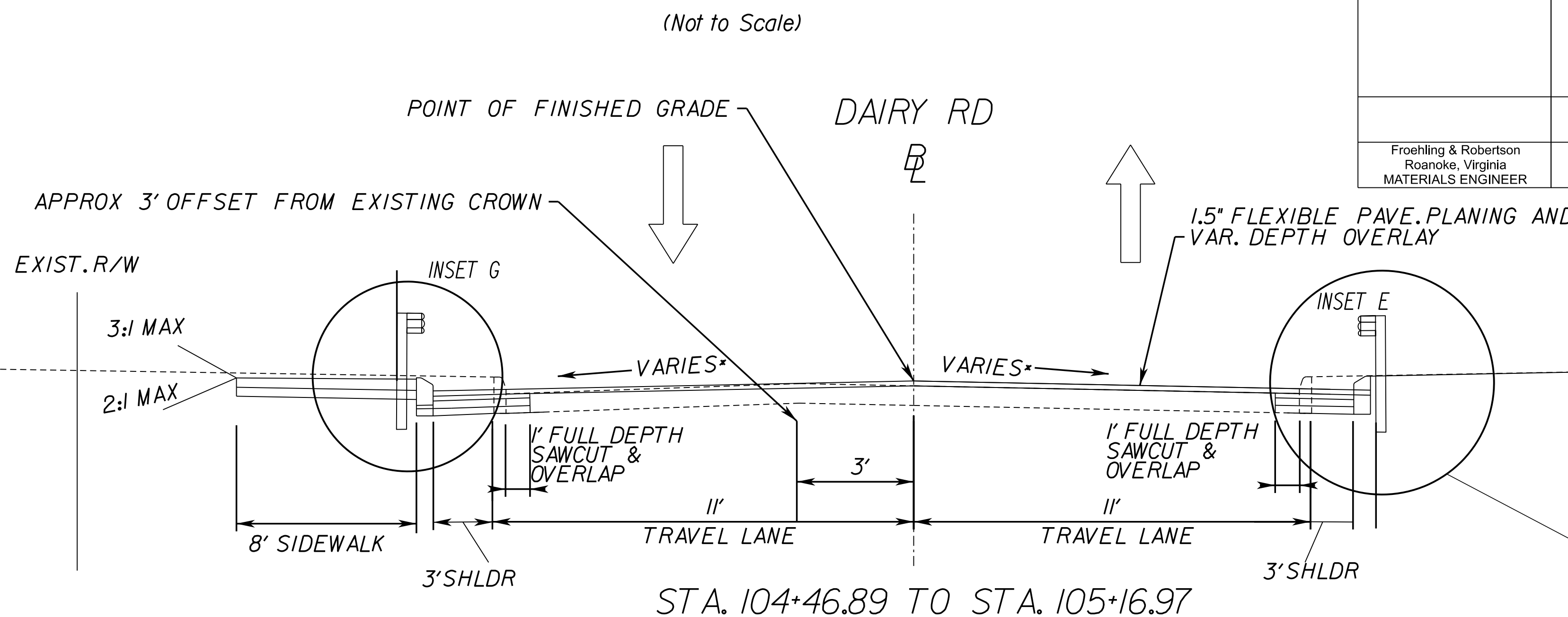
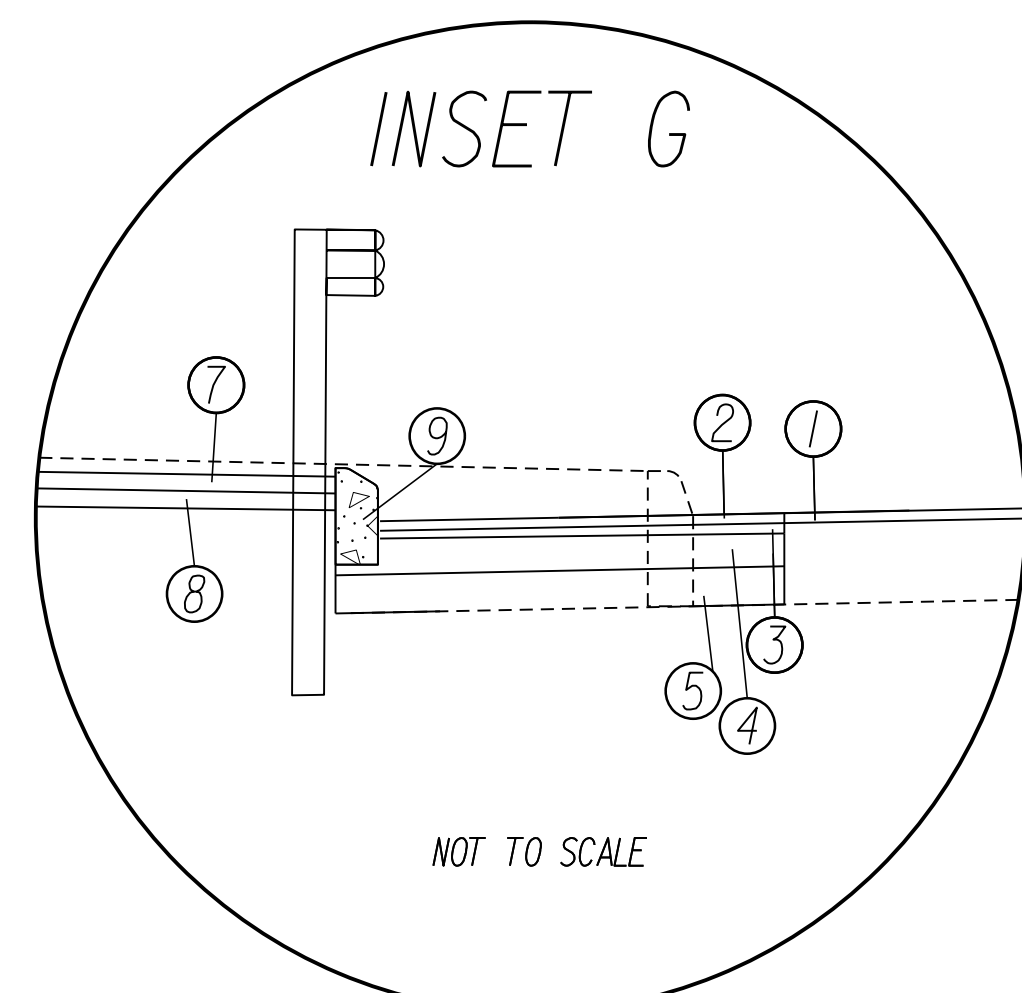
TYPICAL SECTIONS

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 C-501	2C

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

Froehling & Robertson
Roanoke, Virginia
MATERIALS ENGINEER

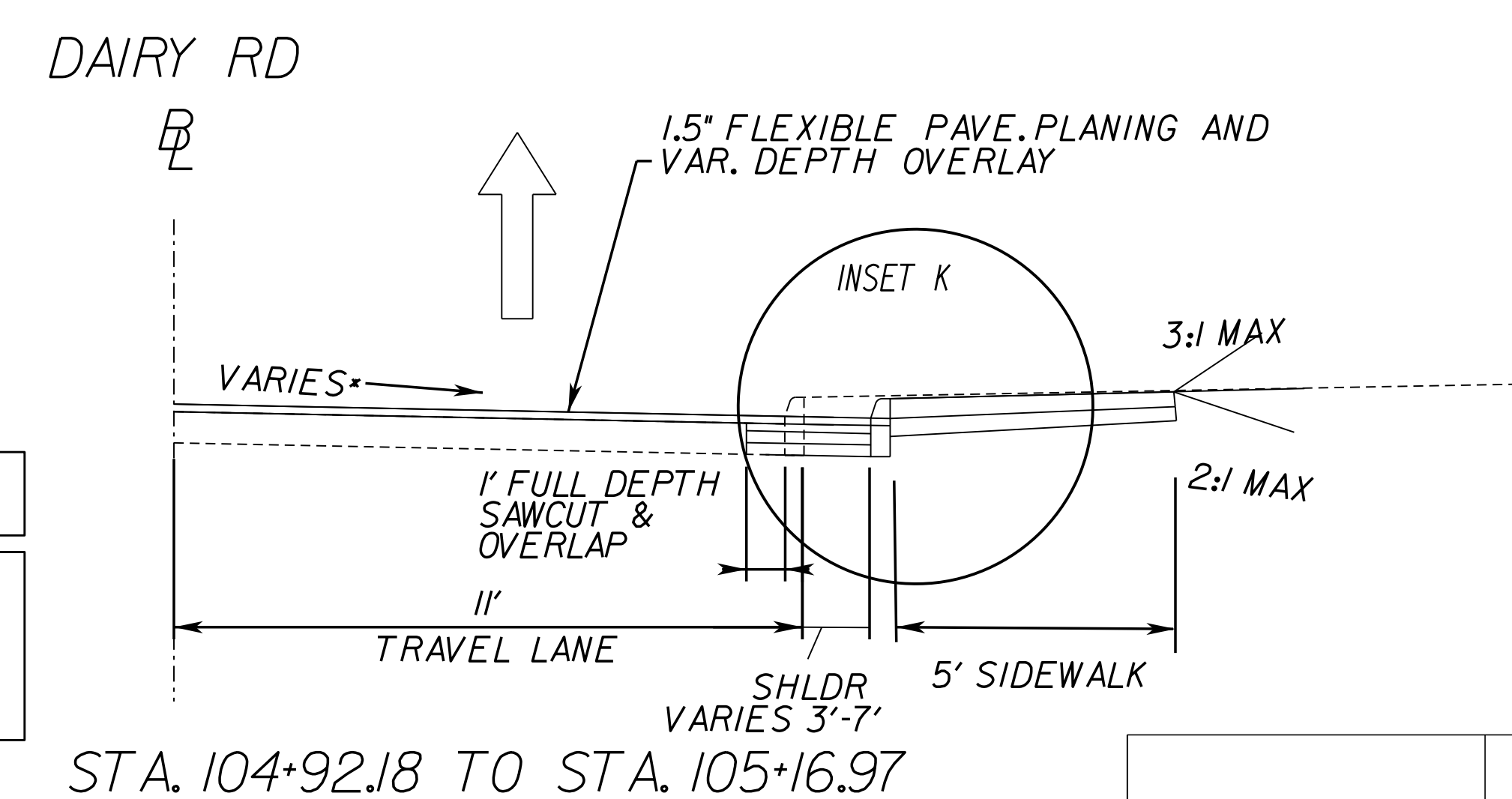
Kimley-Horn & Associates
Charlottesville, Virginia
ROADWAY ENGINEER



- ① 1.5" ASPHALT CONCRETE SURFACE, MILL & OVERLAY
- ② 1.5" ASPHALT CONCRETE SURFACE, TYPE SM-9.5
- ③ 2" ASPHALT CONCRETE, INTERMEDIATE, TYPE IM-19.0D @ 110 LB/IN
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- ⑥ VDOT STD. CG-6 REQ'D.
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- ⑧ 4" AGGREGATE BASE MAT'L, TY. I NO. 21B
- ⑨ VDOT STD. CG-3 REQ'D
- ⑩ VDOT STD. CG-2 REQ'D

90% PLANS

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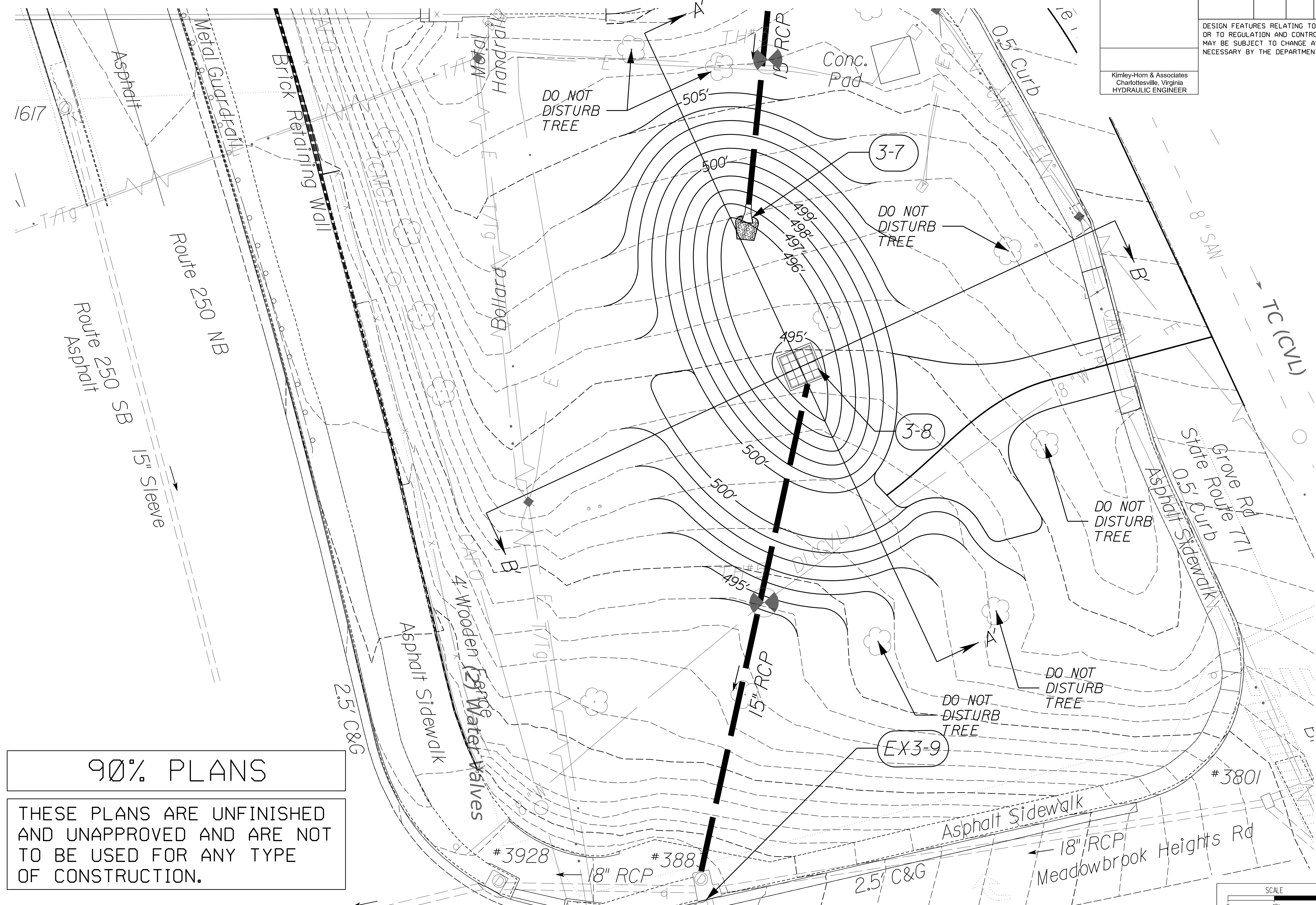
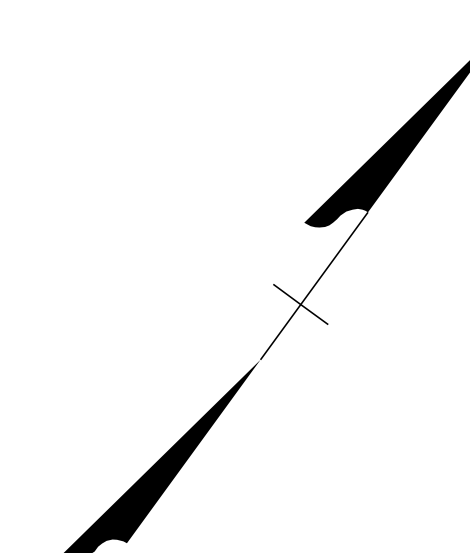
PROJECT MANAGER NAJEEBULLAH BEHNAM (434-459-9763) (CITY OF CHARLOTTEVILLE)
SURVEYED BY, DATE H&B Survey and Mapping, LLC 11/11/2024
DESIGN BY Kimley-Horn & Associates, Inc.
SUBSURFACE UTILITY BY, DATE INFRAMAP CORP 10/30/2024

BMP S - DETAIL SHEET (1)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 P-101 B-620 C-501	2D(1)

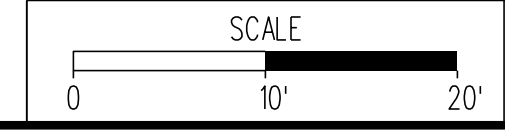
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates
Charlottesville, Virginia
HYDRAULIC ENGINEER



90% PLANS

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PROJECT	SHEET NO.
U000-104-365	2D(1)

PROJECT MANAGER NAJEEBULLAH BEHNNAM (434-459-9763) (CITY OF CHARLOTTESVILLE)
 SURVEYED BY, DATE H&B Survey and Mapping, LLC 11/11/2024
 DESIGN BY Kimley-Horn & Associates, Inc.
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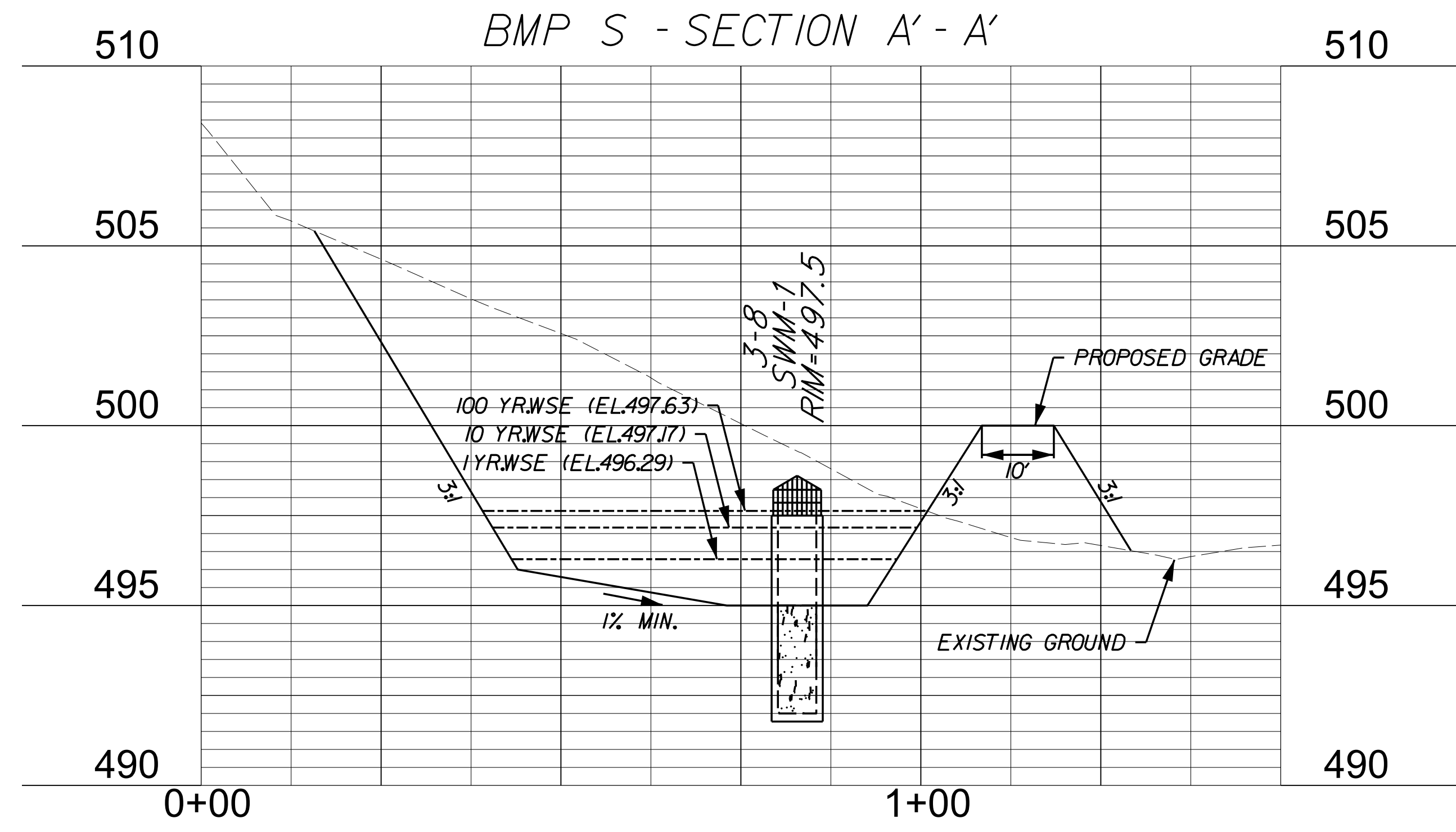
BMP S - DETAIL SHEET (2)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 P-101 B-620 C-501 RW-201	2D(2)

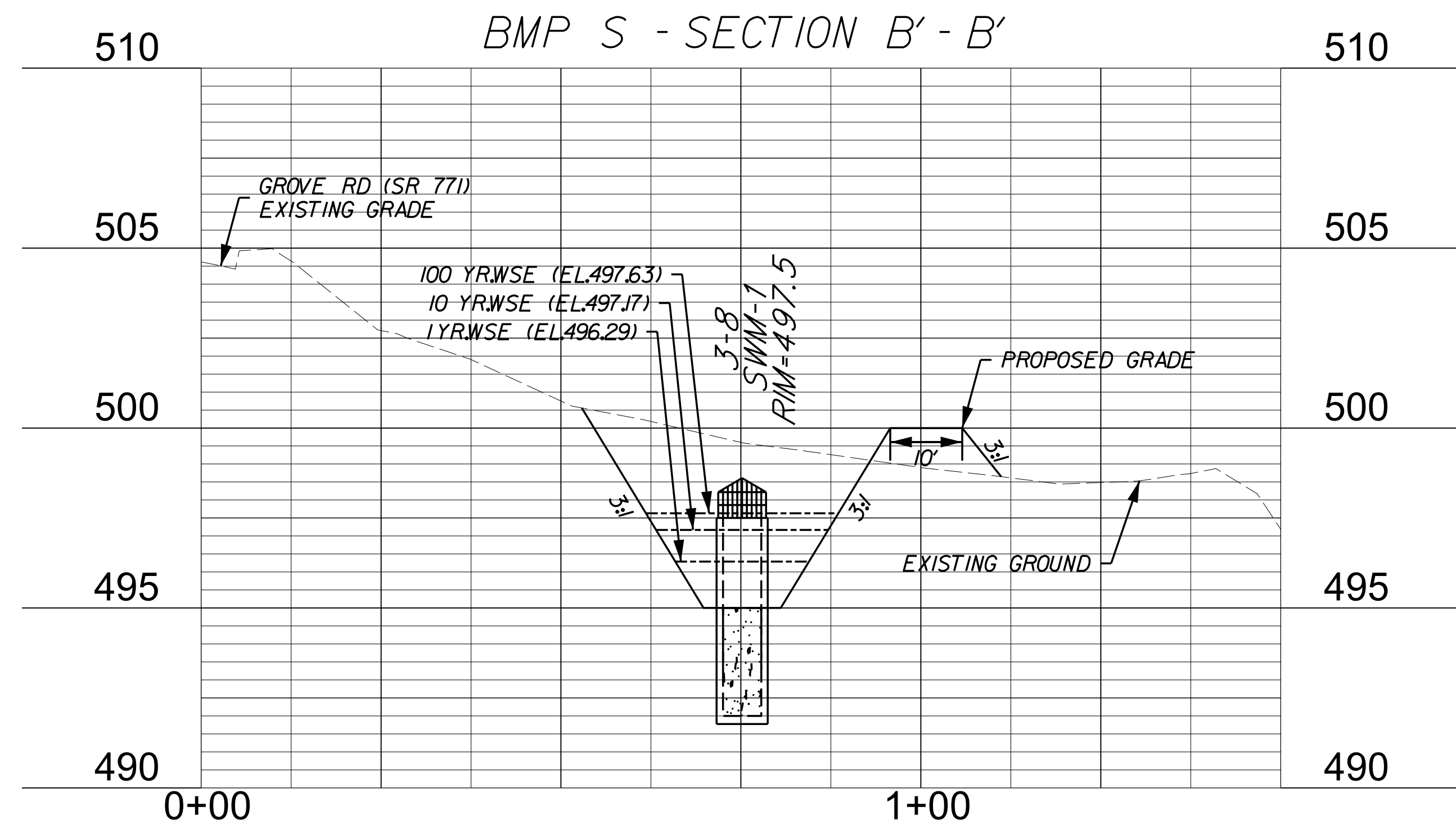
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Kimley-Horn & Associates
Charlottesville, Virginia
HYDRAULIC ENGINEER

VERT: 1"=5'
HORIZ: 1"=25'



VERT: 1"=5'
HORIZ: 1"=25'



90% PLANS
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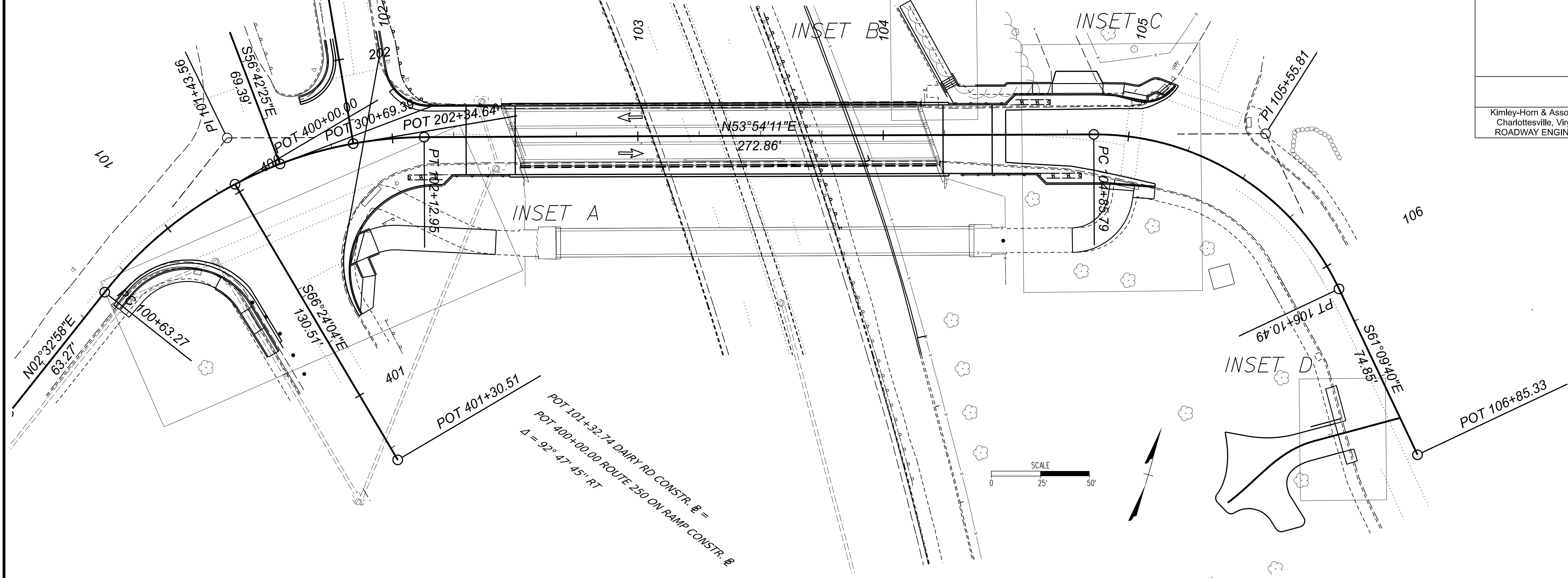
PROJECT MANAGER NAJEEBULLAH BEHNNAM (434-459-9763) (CITY OF CHARLOTTEVILLE)
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 DESIGN BY Kimley-Horn & Associates, Inc.
 SUBSURFACE UTILITY BY, DATE INFRAMAP CORP. 10/30/2024

CURB RAMP GRADING

REVISED	STATE		PROJECT		SHEET NO.
	ROUTE				
	VA.	N/A	U000-104-365	P-101 B-620 C-501	2E(1)

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

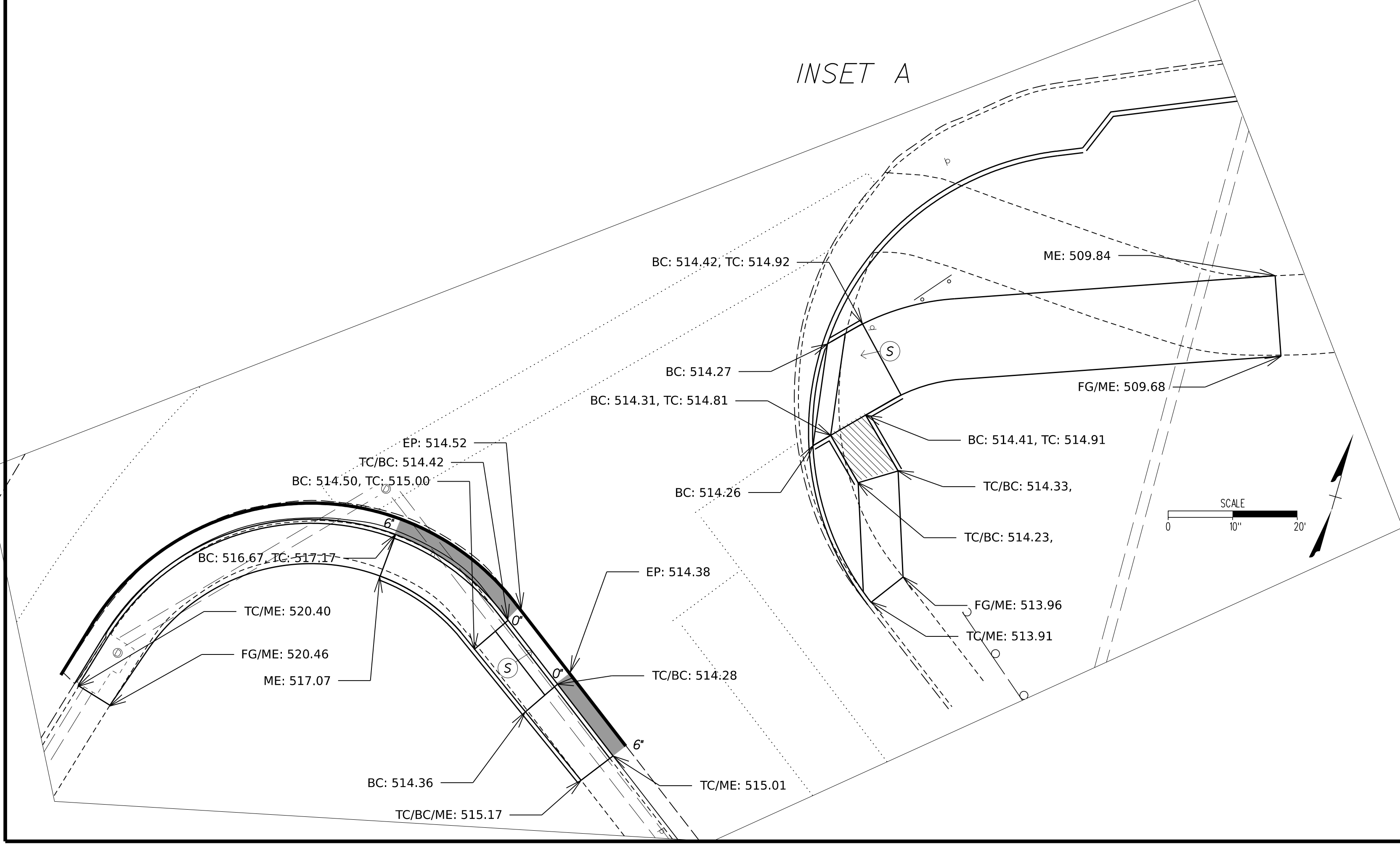
Kimley-Horn & Associates
 Charlottesville, Virginia
 ROADWAY ENGINEER



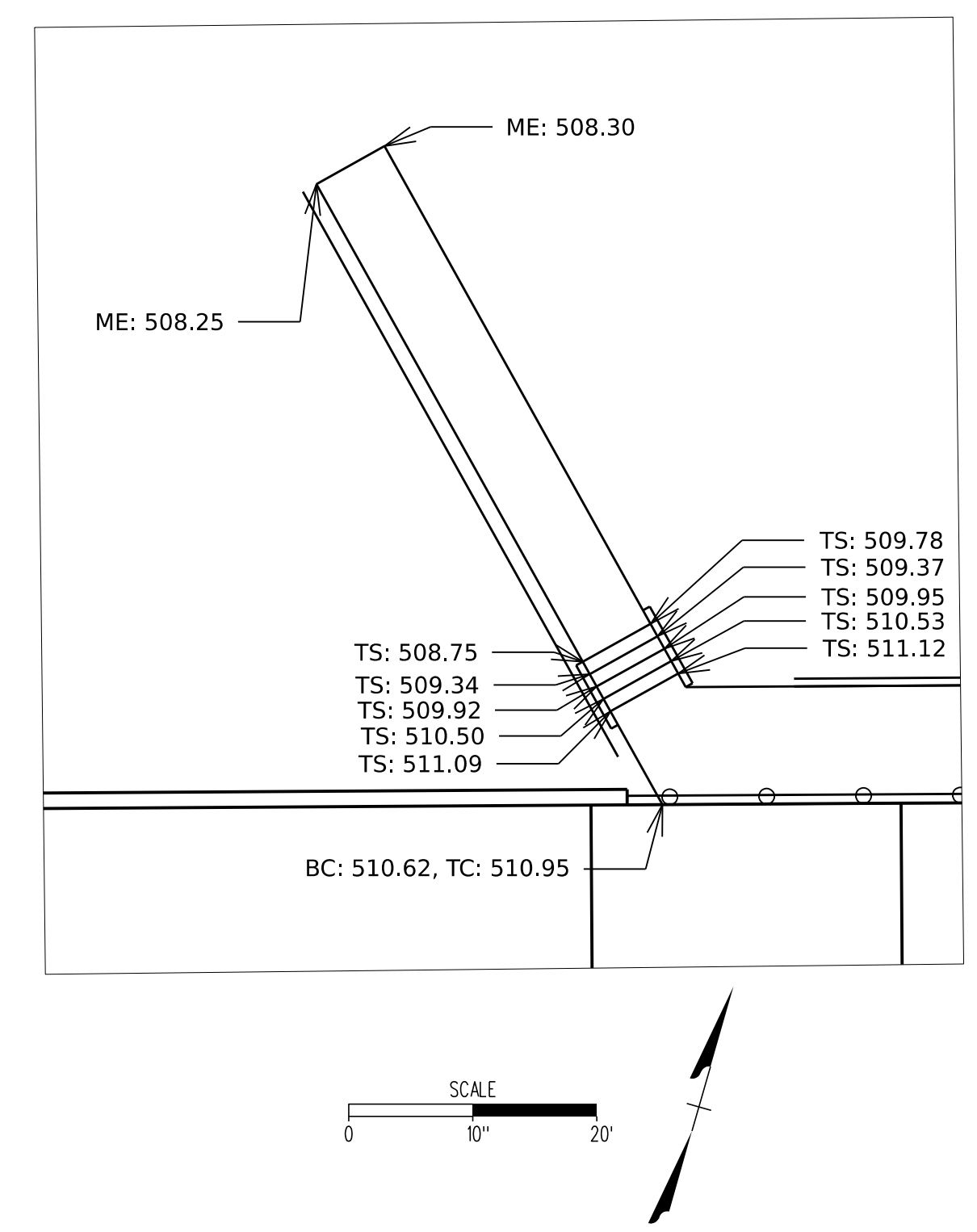
LEGEND:

- TC: TOP OF CURB
- BC: BOTTOM OF CURB
- FG: FINISHED GRADE
- ME: MATCH EXISTING ELEVATION
- X: CURB HEIGHT
- EP: EDGE OF PAVEMENT
- TS: TOP OF STAIR
- GUTTER PAN SLOPE TRANSITION FROM 12% TO 20% (SEE VDOT STD. CG-12)
- INDICATES PEDESTRIAN RAMP. SLOPE SHALL NOT EXCEED 8.3%
- INDICATES LEVEL LANDING AREA - 4' X 4' MIN. WIDTH AND LENGTH, AND MAX 2.0% SLOPE IN ALL DIRECTIONS

INSET A



INSET B



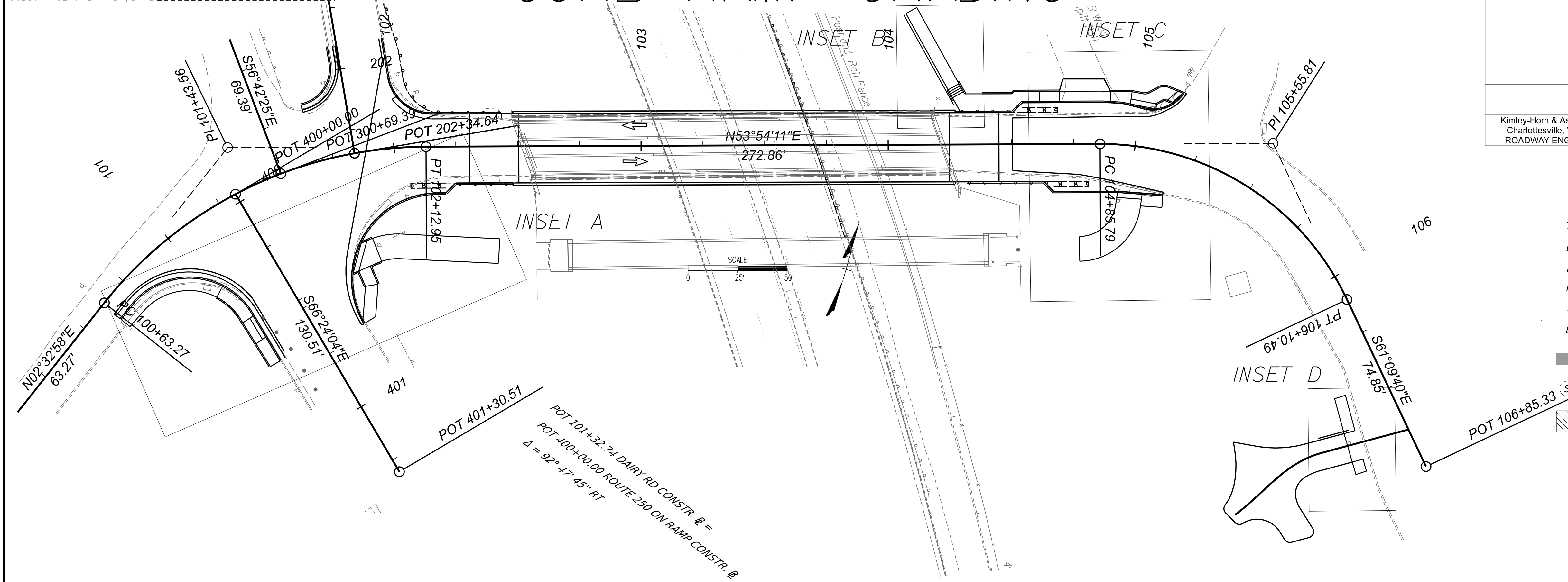
NOTE:

SEE SHEET 2E(2) FOR INSETS C & D

PROJECT MANAGER NAJEEBULLAH BEHNNAM (434-459-9763) (CITY OF CHARLOTTEVILLE)
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 DESIGN BY Kimley-Horn & Associates, Inc.
 SUBSURFACE UTILITY BY, DATE INFRAMAP CORP. 10/30/2024

CURB RAMP GRADING

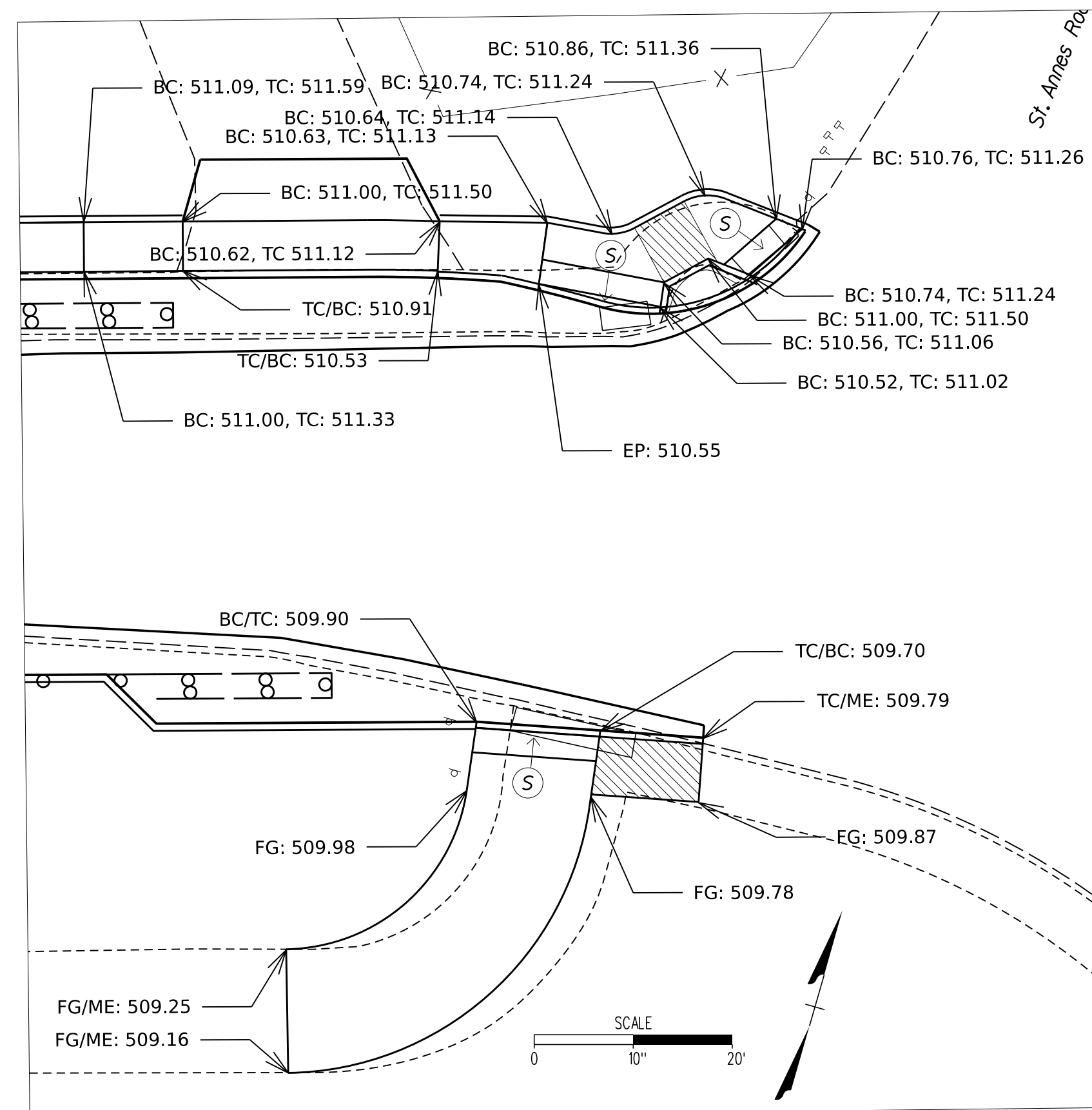
REVISED	STATE		PROJECT		SHEET NO.
	VA.	N/A	U000-104-365	P-101 B-620 C-501	
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT					
Kimley-Horn & Associates Charlottesville, Virginia ROADWAY ENGINEER					



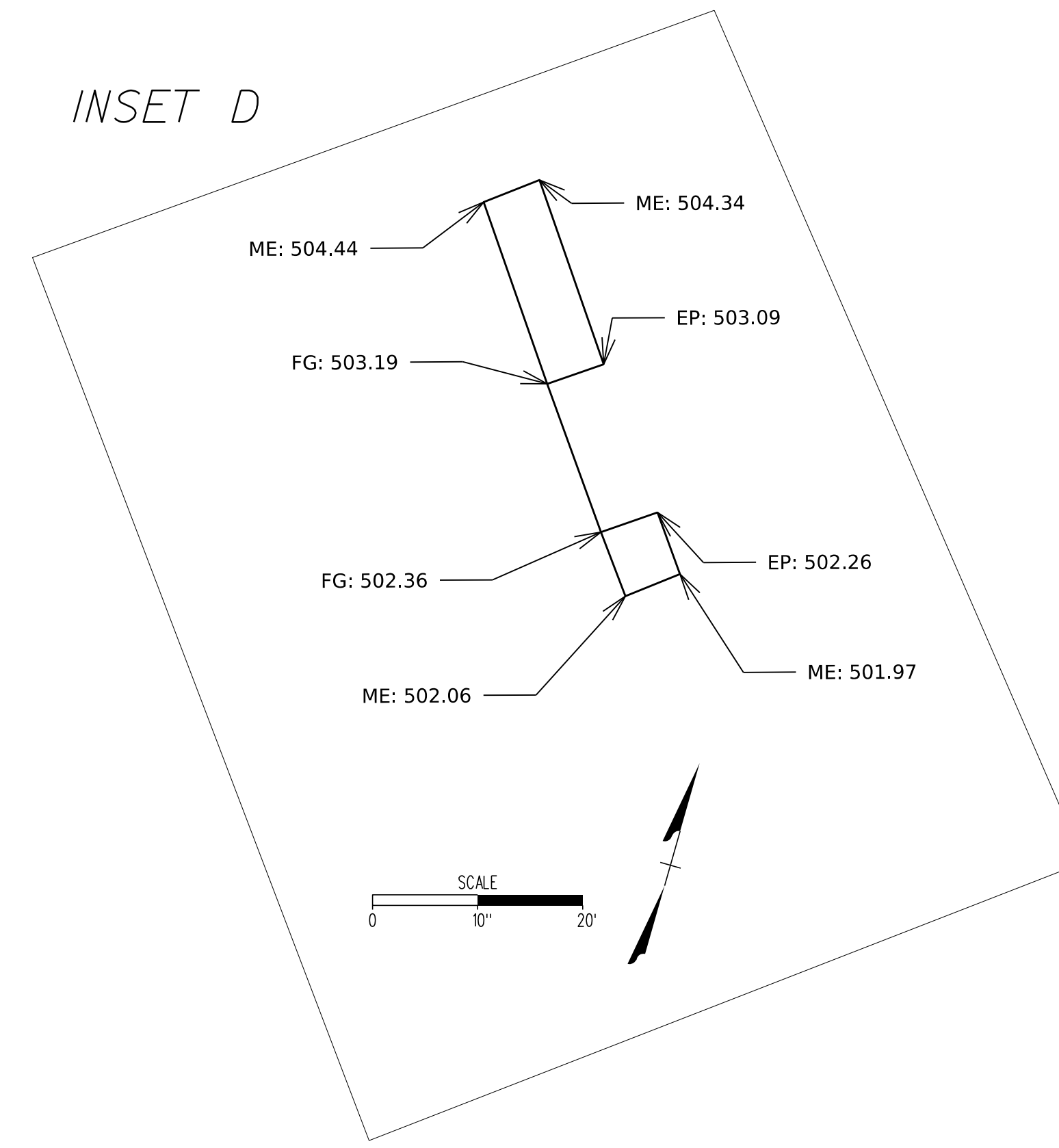
LEGEND:

- TC: TOP OF CURB
- BC: BOTTOM OF CURB
- FG: FINISHED GRADE
- ME: MATCH EXISTING ELEVATION
- X: CURB HEIGHT
- EP: EDGE OF PAVEMENT
- GUTTER PAN SLOPE TRANSITION FROM 12:1 TO 20:1 (SEE VDOT STD. CG-12)
- INDICATES PEDESTRIAN RAMP. SLOPE SHALL NOT EXCEED 8.3%.
- INDICATES LEVEL LANDING AREA - 4' X 4' MIN. WIDTH AND LENGTH AND MAX 2.0% SLOPE IN ALL DIRECTIONS

INSET C



INSET D



NOTE:

SEE SHEET 2E(2) FOR INSETS C & D

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 P-101 B-620 C-501	2F

DRAINAGE SUMMARY

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

STRUCTURE NUMBER	COVER	PIPE 15 in RCP	END SECTIONS ES-1 15 in	DROP INLETS				SWM-1	MODIFY EXISTING STRUCTURE	MANHOLES		EROSION CONTROL STONE		SEE NOTE(S)
				HEIGHT OF INLET	DI-3A	DI-3B, L = 4'	DI-3B, L = 6'			DI-3B, L = 8'	MANHOLE MH-1 OR 2	MH-1 FRAME AND COVER	EC-1, CLASS 1	
	FT	LF	EA	FT	EA	EA	EA	EA	LF	EA	TON	CY		
3-1				3.0	1									CONNECT CD-2 TO DI
3-1 TO 3-2	1'	34												
3-2				3.4										CONNECT CD-2 TO DI, IS-1 REQ'D.
3-2 TO 3-3	2'	42												
3-3									4.9	1				
3-3 TO EX. 3-10														
3-4				4.0			1							CONNECT CD-2 TO DI
3-4 TO 3-5	2'	33												
3-5				4.4			1							CONNECT CD-2 TO DI, IS-1 REQ'D.
3-5 TO 3-6	2'	52												
3-6				5.3		1								
3-6 TO 3-7	3'	64												
3-7			1								3			
3-8 TO EX 3-9	2'	109						5.5				12		SWM-DR CONCRETE CRADLE REQ'D.
EX 3-9								1						MODIFY TO ACCEPT 15" RCP

INCIDENTAL SUMMARY

SHEET NO.	MOBILIZATION	FIELD OFFICE, TY. II	CLEARING AND GRUBBING	FLEXIBLE PAVE. PLANING 0'-2"	SAW-CUT ASPHALT CONCRETE	COMB. CURB & GUTTER, STD. CG-6	COMB. CURB & GUTTER, RAD. CG-6	CURB, STD. CG-2	CURB, RADIAL CG-2	CURB, STD. CG-3	ENTRANCE GUTTER CG-9D	HYDR. CEMENT CONC. SIDEWALK 4"	CG-12 DETECTABLE WARNING SURFACE	CONCRETE CLASS A3 MISC.	HANDRAIL HR TY. I	GUARDRAIL GR-MGS1	RADIAL GUARDRAIL GR-MGS1	GUARDRAIL HEIGHT TRANSITION GR-MGS4	NS IMPACT ATTENUATOR
	LS	MO	LS	SY	LF	LF	LF	LF	LF	LF	SY	SY	SY	CY	LF	LF	LF	LF	EA
3	1	13	1	964	409	50	98	182	121	167	20	224	12	40	25	38	20	103	3
TOTAL	1	13	1	964	409	50	98	182	121	167	20	224	12	40	25	38	20	103	3

90% PLANS

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PAVEMENT SUMMARY

	Sheet 3		TY. SM-9.5D CONST. @ 180 LBS/SY	TY. IM-19.0D CONST. @ 220 LBS/SY	TY. BM-25.0A @ 452 LBS/SY	TY. 2IB @ 150 LBS/CF	CRUSHER RUN @ 150 LBS/CF
	SF	Area SY	TON	TON	TON	TON	TON
FULL DEPTH	2,436	271	22	30	89	91	0
MILL & OVERLAY	8,674	964	80	0	0	0	0
SIDEWALK	1,944	216	0	0	0	53	0
ENTRANCES (TY. III)	129	14	1	0	0	0	44
TOTAL			103	30	89	144	44

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	N/A		U000-104-365 P-101 B-620 C-501	2G

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

EROSION AND SEDIMENT CONTROL SUMMARY

	Temporary Silt Fence S't'd. EC-5	Inlet Protection S't'd. EC-6
Sheet Number	Temp. Silt Fence, Ty. A	Inlet Protection, Ty. B
	LF	EA
3C	1070	7
Total	1070	7

UNDERDRAIN SUMMARY

	UNDERDRAIN UD-2	OUTLET PIPE
STATION		
UNIT	LF	LF
102+25	32	20
104+50	34	14

MAINTENANCE OF TRAFFIC SUMMARY

	TRAFFIC BARRIER SERVICE CONCRETE	TEMPORARY SIGN	TYPE 3 BARRICADE 8'	TYPE 3 BARRICADE 4'	GROUP 2 CHANNELIZING DEVICES	PORTABLE CHANGABLE MESSAGE SIGN	ELECTRONIC ARROW BOARD	WARNING LIGHT TY. B
UNIT	LF	SF	EA	EA	DAY	HR	HR	DAY
ALL STAGES	1060	898	9	2	60000	8064	840	600
TOTAL	1060	898	9	2	60000	8064	840	600

90% PLANS

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PROJECT MANAGER NAJEEBULLAH BEHNAM (434-459-9763) (CITY OF CHARLOTTESVILLE)
SURVEYED BY, DATE H&B Survey and Mapping, LLC 11/11/2024
DESIGN BY Kimley-Horn & Associates, Inc.
SUBSURFACE UTILITY BY, DATE INFRAMAP CORP 10/30/2024

UTILITY OWNER INFORMATION:

Water, Sanitary Sewer, Gas, and Storm Sewer:

City of Charlottesville - (CVU)
Contact: Calvin Chan
Email: chancc@charlottesville.gov
Record Received

Electric:

Dominion Power - (DOM)
Contact: Timothy Gossett
Email: timothy.d.gossett@dominionenergy.com

Cable Television - Fiber Optic:

Comcast - (CMC)
324 West Main Street
Charlottesville, VA 22903
Contact: Phillip Perry
Phone: (434) 326-3529
Email: Phillip_Perry@comcast.com

Fiber Optic:

Brightspeed - (BTS)
Contact: Stevean Irving
Phone: (704) 314-2294
Email: Stevean.Irving@brightspeed.com

Internet:

Ting Internet
Contact: Cole Larew OSP/ISP Supervisor, Mid-Atl
Phone: (434) 282-9366
Email: clarew@ting.com

DAIRY_1
PI = 101+43.56
DELTA = 51°21'13.54" (RT)
D = 34°18'32"
T = 80.29'
L = 149.68'
R = 167.00'
PC = 100+63.27
PT = 102+12.95
e = 2% (ULS)
V = 25 MPH

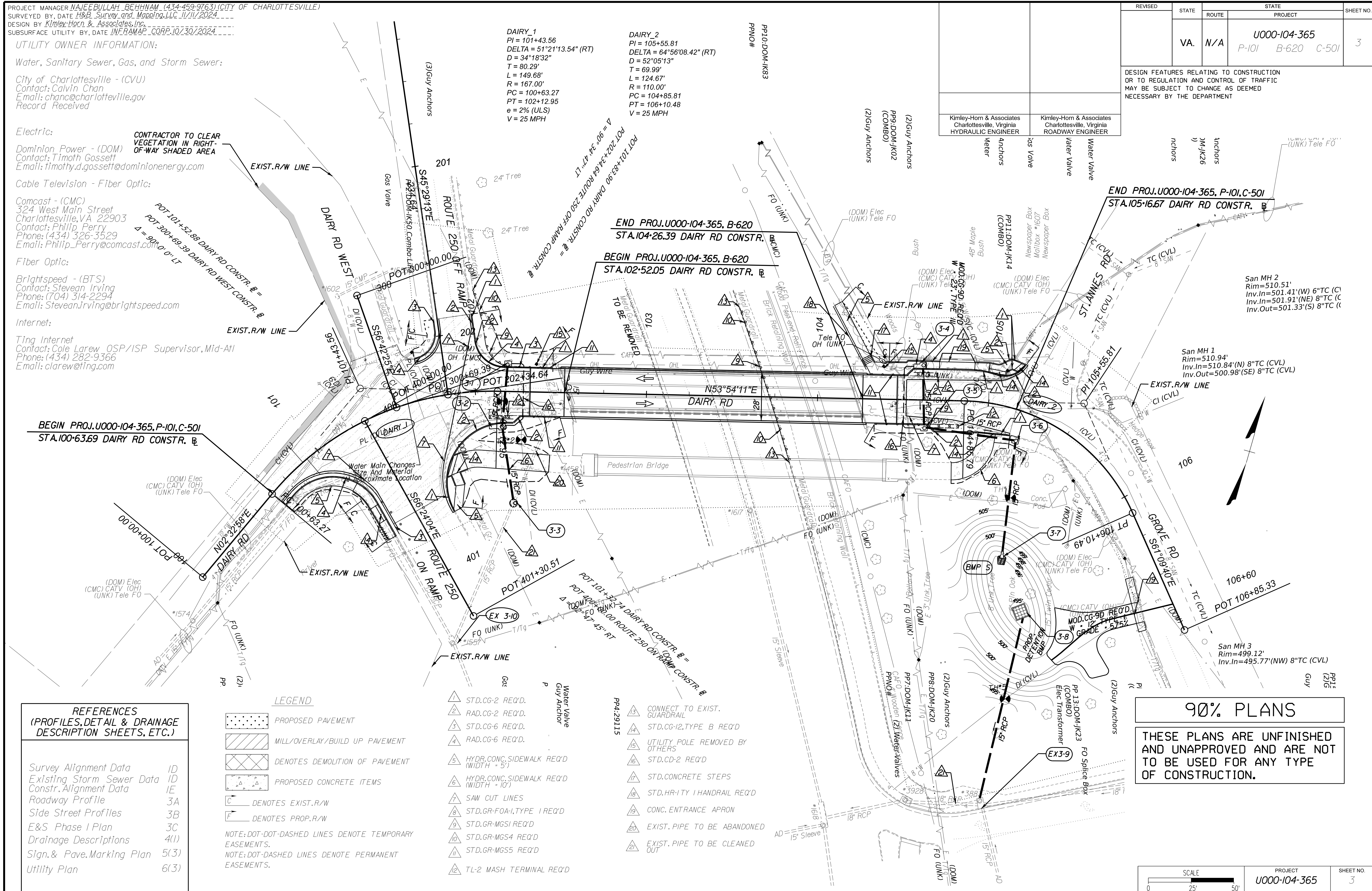
DAIRY_2
PI = 105+55.81
DELTA = 64°56'08.42" (RT)
D = 52°05'13"
T = 69.99'
L = 124.67'
R = 110.00'
PC = 104+85.81
PT = 106+10.48
V = 25 MPH

REVISED	STATE		PROJECT	SHEET NO.
	VA.	ROUTE		
	N/A		U000-104-365 P-101 B-620 C-501	3

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

Kimley-Horn & Associates
Charlottesville, Virginia
HYDRAULIC ENGINEER

Kimley-Horn & Associates
Charlottesville, Virginia
ROADWAY ENGINEER



BEGIN PROJ.U000-104-365,P-101,C-501
STA.100+63.69 DAIRY RD CONSTR. B

END PROJ.U000-104-365, B-620
STA.104+26.39 DAIRY RD CONSTR. B

BEGIN PROJ.U000-104-365, B-620
STA.102+52.05 DAIRY RD CONSTR. B

END PROJ.U000-104-365, P-101,C-501
STA.105+16.67 DAIRY RD CONSTR. B

San MH 2
Rim=510.51'
Inv.In=501.41'(W) 6"TC (C)
Inv.In=501.91'(NE) 8"TC (C)
Inv.Out=501.33'(S) 8"TC (C)

San MH 1
Rim=510.94'
Inv.In=510.84'(N) 8"TC (CVL)
Inv.Out=500.98'(SE) 8"TC (CVL)

San MH 3
Rim=499.12'
Inv.In=495.77'(NW) 8"TC (CVL)

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

- Survey Alignment Data 1D
- Existing Storm Sewer Data 1D
- Constr. Alignment Data 1E
- Roadway Profile 3A
- Side Street Profiles 3B
- E&S Phase I Plan 3C
- Drainage Descriptions 4(1)
- Sign. & Pav. Marking Plan 5(3)
- Utility Plan 6(3)

- LEGEND**
- PROPOSED PAVEMENT
 - MILL/OVERLAY/BUILD UP PAVEMENT
 - DENOTES DEMOLITION OF PAVEMENT
 - PROPOSED CONCRETE ITEMS
 - DENOTES EXIST. R/W
 - DENOTES PROP. R/W
 - NOTE: DOT-DOT-DASHED LINES DENOTE TEMPORARY EASEMENTS.
 - NOTE: DOT-DASHED LINES DENOTE PERMANENT EASEMENTS.

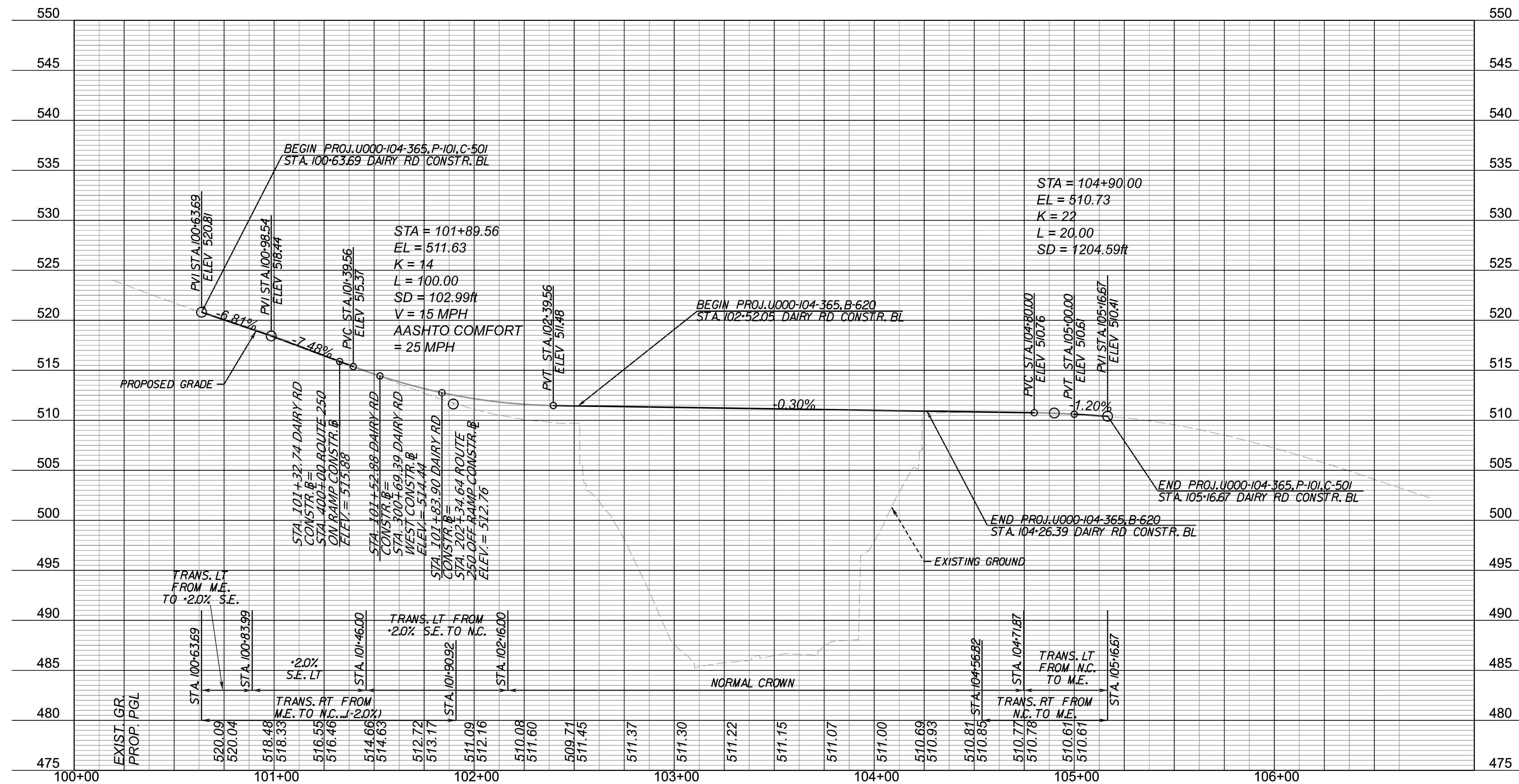
- STD.CG-2 REQ'D
- RAD.CG-2 REQ'D
- STD.CG-6 REQ'D
- RAD.CG-6 REQ'D
- HYDR.CONC.SIDEWALK REQ'D (WIDTH = 5')
- HYDR.CONC.SIDEWALK REQ'D (WIDTH = 10')
- SAW CUT LINES
- STD.GR-FOA-1,TYPE I REQ'D
- STD.GR-MGS1 REQ'D
- STD.GR-MGS4 REQ'D
- STD.GR-MGS5 REQ'D
- TL-2 MASH TERMINAL REQ'D
- CONNECT TO EXIST. GUARDRAIL
- STD.CG-12,TYPE B REQ'D
- UTILITY POLE REMOVED BY OTHERS
- STD.CD-2 REQ'D
- STD.CONCRETE STEPS
- STD.HR-1 TYPE I HANDRAIL REQ'D
- CONC. ENTRANCE APRON
- EXIST. PIPE TO BE ABANDONED
- EXIST. PIPE TO BE CLEANED OUT

90% PLANS
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PROJECT MANAGER NAJEEBULLAH BEHNAM (434-459-9763) (CITY OF CHARLOTTEVILLE)
 SURVEYED BY DATE H&B Survey and Mapping, LLC 11/17/2023
 DESIGN BY Kimley-Horn & Associates, Inc.
 SUBSURFACE UTILITY BY DATE INF-RAMAP CORP. 10/30/2024

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	N/A	U000-104-365 PE-101 RW-201 C-501 B-620	3A
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Kimley-Horn & Associates Richmond, Virginia HYDRAULIC ENGINEER		Kimley-Horn & Associates Richmond, Virginia ROADWAY ENGINEER		

DAIRY ROAD



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VERT : 1" = 5'
 HORIZ : 1" = 25'

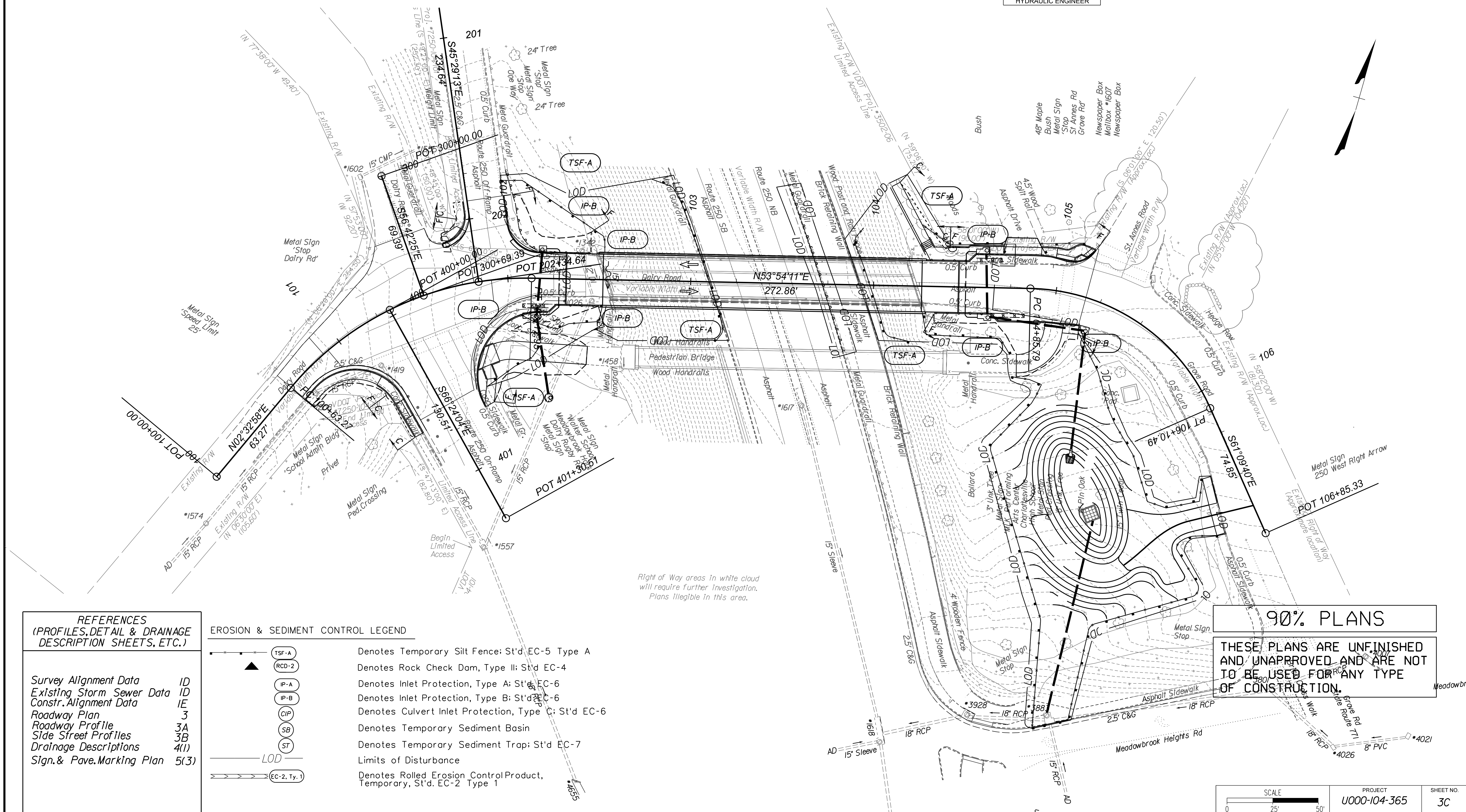
PROJECT MANAGER NAJEEBULLAH BEHNAM (434-459-9763) (CITY OF CHARLOTTEVILLE)
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 C-501	3C

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Kimley-Horn & Associates
 Charlottesville, Virginia
 HYDRAULIC ENGINEER

THIS SHEET IS FOR E&S CONTROL ONLY



REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	ID
Existing Storm Sewer Data	ID
Constr. Alignment Data	IE
Roadway Plan	3
Roadway Profile	3A
Side Street Profiles	3B
Drainage Descriptions	4(1)
Sign. & Pavement Marking Plan	5(3)

EROSION & SEDIMENT CONTROL LEGEND

	Denotes Temporary Silt Fence; St'd. EC-5 Type A
	Denotes Rock Check Dam, Type II; St'd. EC-4
	Denotes Inlet Protection, Type A; St'd. EC-6
	Denotes Inlet Protection, Type B; St'd. EC-6
	Denotes Culvert Inlet Protection, Type C; St'd. EC-6
	Denotes Temporary Sediment Basin
	Denotes Temporary Sediment Trap; St'd. EC-7
	Limits of Disturbance
	Denotes Rolled Erosion Control Product, Temporary, St'd. EC-2 Type 1

90% PLANS
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SCALE 0 25 50'	PROJECT U000-104-365	SHEET NO. 3C
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DRAINAGE DESCRIPTIONS

REVISED	STATE		PROJECT		SHEET NO.
	STATE	ROUTE	PROJECT		
	VA.	N/A	U000-104-365 PE-101 RW-201 C-501 B-620		4(1)

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

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 Charlottesville, Virginia
 HYDRAULIC ENGINEER

3-1	1 STD. DI-3A REQ. H=3.0', INV = 508.74' CONNECT CD-2D TO DI
3-1 TO 3-2	34' -15" CONC. PIPE CLASS V REQ. (1' COVER) SILT TIGHT JOINT TYPE INV(IN) = 508.74', INV(OUT) = 508.41'
3-2	1 STD. DI-3B REQ. L=8', H=3.4', INV = 508.31' STD. IS-1 REQ'D CONNECT CD-2 TO DI
3-2 TO 3-3	42' -15" CONC. PIPE CLASS III REQ. (2' COVER) SILT TIGHT JOINT TYPE INV(IN) = 508.31', INV(OUT) = 505.35'
3-3	4.9 LF STD. MH-1 OR MH-2 REQ. 1 STD. MH-1 FRAME & COVER REQ. INV = 505.25', RIM = 510.85' CONNECT TO EXIST. 15" RCP (EX 3-10)

3-8	1 STD. SWM-1 REQ. H=5.5', BOTTOM ELEVATION = 492.00' 3.5" DIAMETER WATER QUALITY ORIFICE REQ., INV=495.00'
3-8 TO 3-9	109' -15" CONC. PIPE CLASS III REQ. (2' COVER) LEAK RESISTANT JOINT TYPE INV(IN) = 495.00', INV(OUT) = 479.30' SWM-DR CONCRETE CRADLE REQ'D.
EX 3-9	MODIFY EXIST. STRUCTURE TO ACCEPT 15" RCP INV (IN) = 479.30' STD. IS-1 REQ'D

3-4	1 STD. DI-3B REQ. L=6', H=4.0', INV = 506.79' CONNECT CD-2D TO DI
3-4 TO 3-5	33' -15" CONC. PIPE CLASS III REQ. (2' COVER) SILT TIGHT JOINT TYPE INV(IN) = 506.79', INV(OUT) = 506.50'
3-5	1 STD. DI-3B REQ. L=6', H=4.4', INV = 506.40' STD. IS-1 REQ'D CONNECT CD-2 TO DI
3-5 TO 3-6	52' -15" CONC. PIPE CLASS III REQ. (2' COVER) SILT TIGHT JOINT TYPE INV(IN) = 506.40', INV(OUT) = 505.01'
3-6	1 STD. DI-3B REQ. L=4', H=5.3', INV = 504.51' STD. IS-1 REQ'D
3-6 TO 3-7	64' -15" CONC. PIPE CLASS III REQ. (3' COVER) SILT TIGHT JOINT TYPE INV(IN) = 504.51', INV(OUT) = 496.00'
3-7	1 STD. 15" ES-1 REQ. INV = 496.00 3.0 TONS ST'D. EC-1 CLASS 1 REQ.

VERT: 1" = 5'
 HORIZ: 1" = 25'

90% PLANS

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PROJECT
U000-104-365

SHEET NO.
4(1)

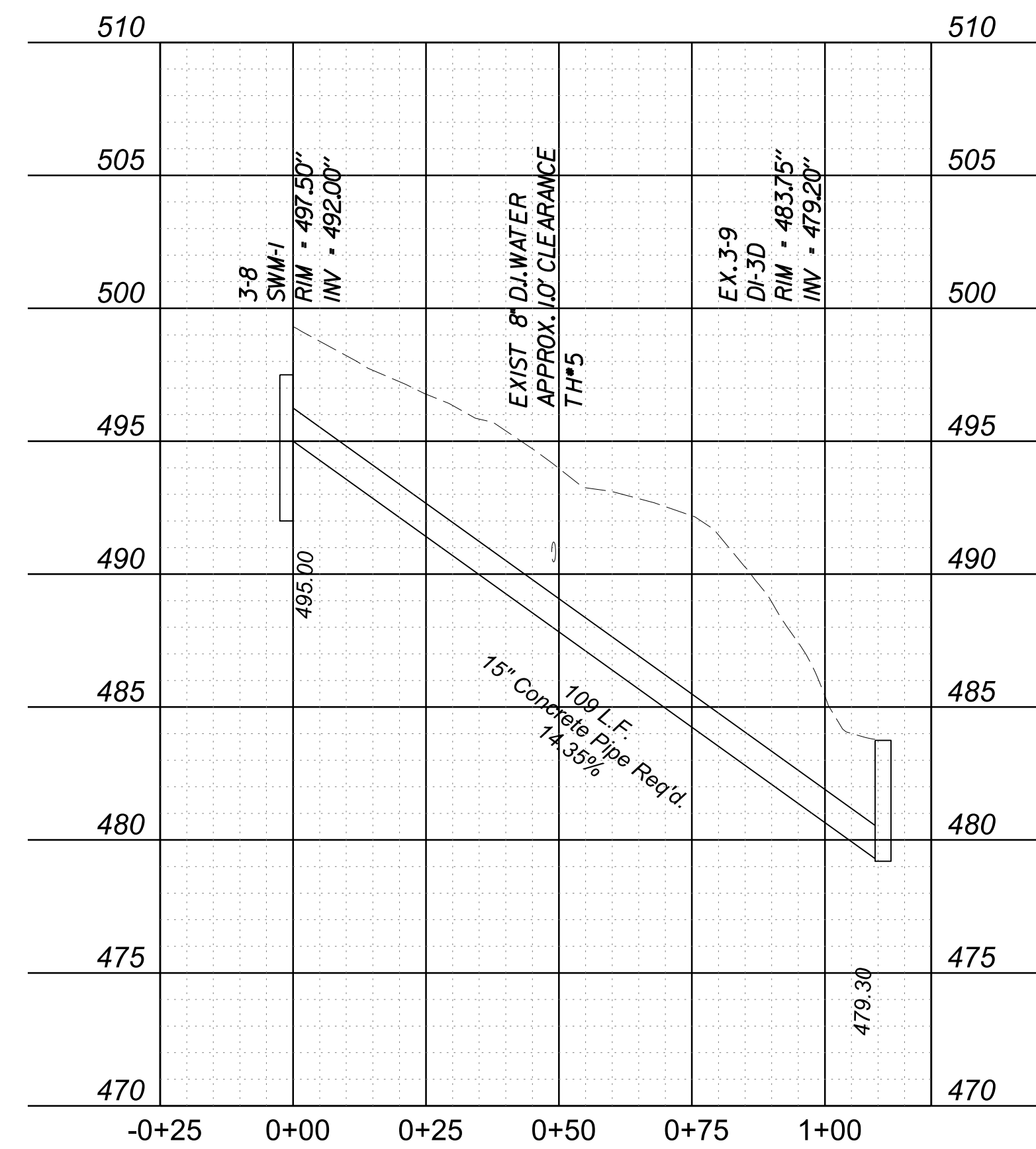
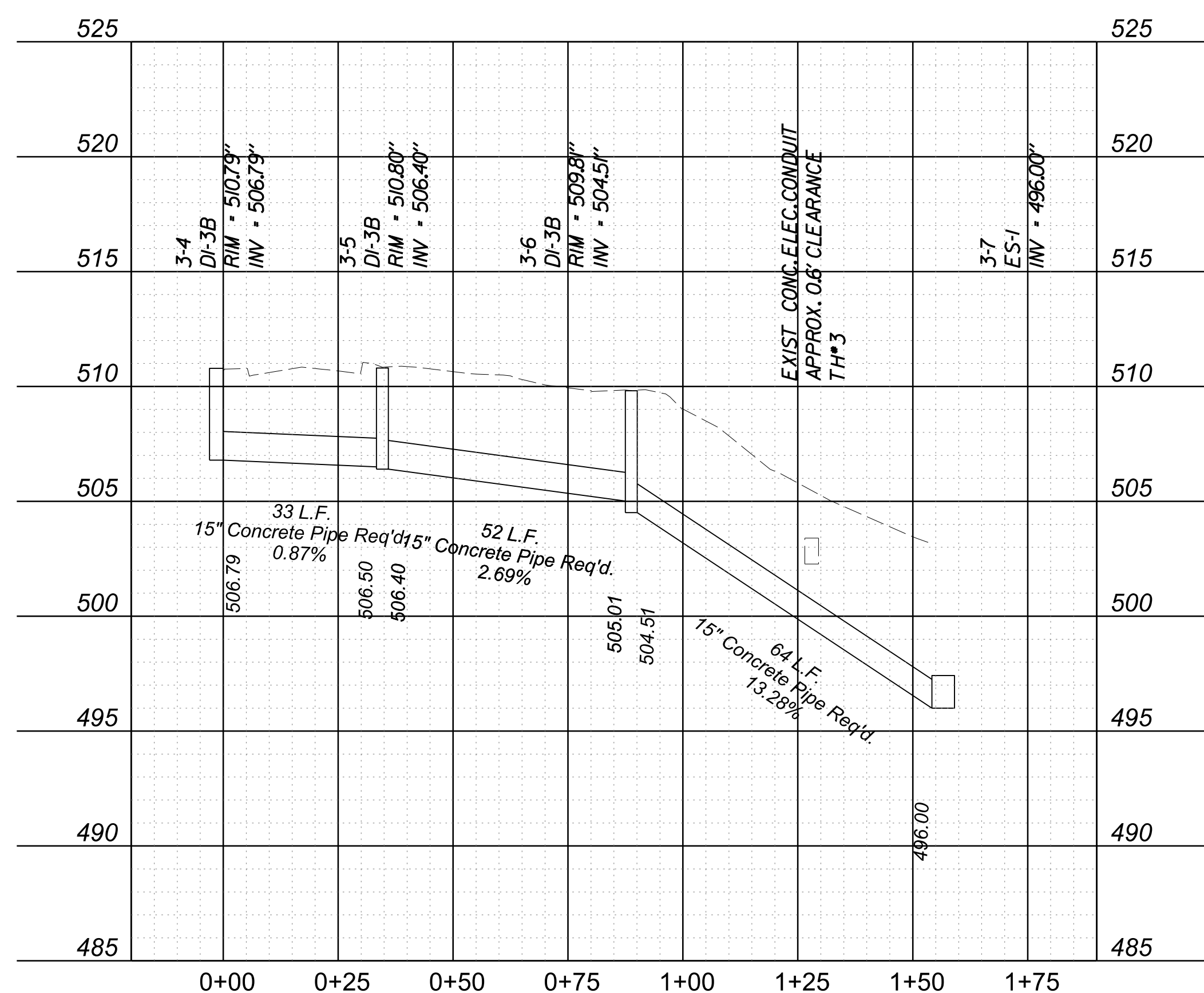
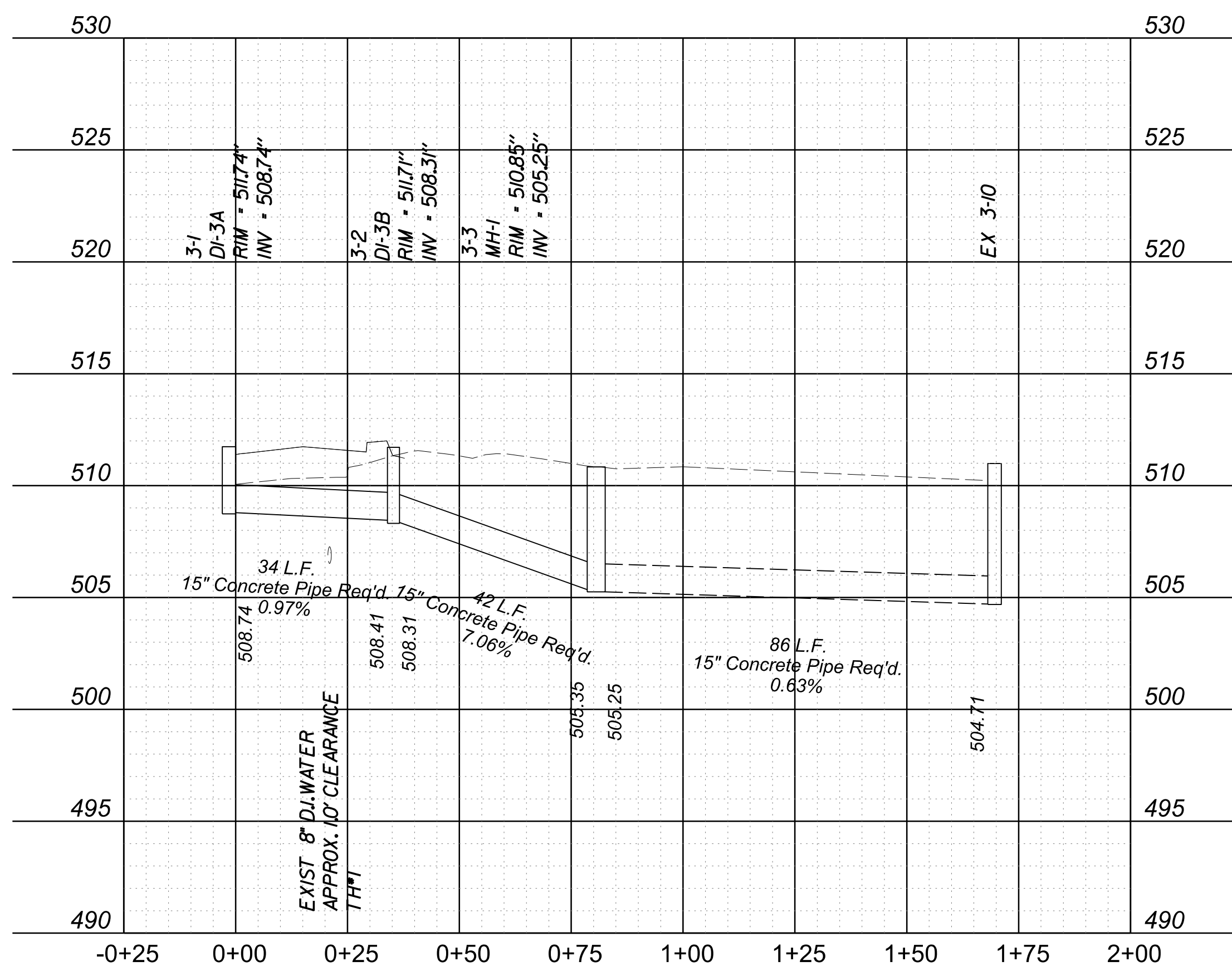
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STORM SEWER PROFILES

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	N/A	U000-104-365 PE-101 RW-201 C-501 RW-201	4(2)

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

Kimley-Horn & Associates
 Charlottesville, Virginia
 HYDRAULIC ENGINEER



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SIGNING & PAVEMENT MARKING PLANS

GENERAL NOTES

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 P-101 B-620 C-501 RW-201	5(1)

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

Kimley-Horn & Associates
Charlottesville, Virginia
ROADWAY ENGINEER

STANDARD SIGN LEGEND

PLAN ITEM	PLAN SYMBOL		SIGN LABELS
	PROPOSED	EXISTING	
Single Post Sign Support			<p>Proposed Sign Assemblies</p> <p>denotes Sign Assembly No.</p> <p>denotes Text No.</p> <p>Relocated Sign Assemblies</p> <p>denotes Sign Assembly No.</p> <p>denotes Text No.</p> <p>Sign Relocation or Payable Sign Disposal/Salvage</p> <p>denotes Existing Sign Structure and/or Sign Panel Type</p> <p>STRUCTURE & SIGN PANEL</p> <p>GM - Ground Mounted OM - Overhead Mounted CM - Cantilever Mounted PM - Pole Mounted</p> <p>SIGN PANEL</p> <p>SP-GM - Ground Mounted Sign Panel SP-OH - Overhead Mounted Sign Panel</p> <p>STRUCTURE ONLY</p> <p>ST-GM - Ground Mounted</p> <p>denotes Action and Measurement & Payment Item</p> <p>A - Remove & Dispose B - Remove & Relocate C - Remove & Salvage D - Overlay Sign Panel</p>
Double Post Sign Support			
Triple Post Sign Support			
Flashing Beacon			
O/H Cantilever Sign Support			
O/H Span Sign Support			
SIGN CALL-OUTS			
Existing Sign to Remain or to be Relocated			
Existing Sign to be Removed			
Proposed Sign Panel			

GENERAL NOTES

1. All signing and pavement marking work shall be in conformance with the following documents:
 - 2011 Virginia Standard Highway Signs, Revision 1
 - 2020 VDOT Traffic Engineering Design Manual (TEDM), April 2020, Revision 1, March 2023
 - 2023 Manual on Uniform Traffic Control Devices (MUTCD)
 - FHWA Standard Highway Signs, 2004 Ed.
 - FHWA Standard Highway Signs, 2012 Supplement to the 2004 Ed.
 - Virginia Manual on Uniform Traffic Control Devices, Version II.0
 - 2016 VDOT Road and Bridge Standards, as revised.
 - 2020 VDOT Road and Bridge Specifications, and.
 - All Special Provision Copied Notes, Special Provisions, and Supplemental Specifications included in the contract.
2. The removal, modification, or relocation of existing sign panels, structures, or foundations shall conform to section 510 of VDOT specifications
3. The contractor shall submit new materials and items required to complete the removal, modification, or relocation of existing items to the engineer for review and approval in accordance with section 105 of VDOT specifications.
4. Unless otherwise provided by the Engineer or indicated in the Maintenance of Traffic and/or Sequence of Construction Plans, existing traffic signs which are to be relocated or replaced shall remain in place until the new sign structure and critical sign message are in place.
5. All existing and proposed sign locations are approximate and shall be verified by the contractor. All proposed sign locations shall be staked by the contractor and approved by the engineer prior to placement.
6. Sign panel design for signs mounted on square tube posts shall conform to the Standard SPD-5. The Contractor shall verify the design of all sign panel assembly types not shown in this Standard with the Engineer.
7. All existing and proposed pavement markings are approximate and shall be field verified by the Contractor. All proposed stop bar, yield line and crosswalk locations shall be identified and staked by the Contractor and approved by the Engineer prior to installation.
8. All striping, where matching to existing, shall be done in a manner approved by the engineer.
9. Existing pavement markings that conflict with the proposed markings shown herein shall be eradicated in accordance with Section 512.03(1) of the Specifications. Eradication shall be considered incidental to the pavement markings and shall not be measured separately for payment.
10. All pavement markings shall conform to VDOT standard PM-3.
11. All utility locations shown on these plans are approximate and may not be accurate or complete. The contractor shall comply with the Virginia "Underground Utility Damage Prevention Act" and the State Corporation Commission's "Rules for Enforcement of the Act". If the Contractor is aware of any utilities within the project limits that are not identified by the notification center, the Contractor shall contact the utility owners at least 72 hours prior to any excavation. The Contractor shall notify VDOT at 800-367-7623 a minimum of 72 hours prior to any excavation to determine the extent and location of VDOT owned equipment. If the Contractor perceives a conflict between utilities and the proposed work, the Contractor shall notify the Engineer immediately so that the conflict may be reviewed.
12. All signs shall be oriented as shown on the plans.
13. Sign structures shall be installed per the noted sign standard on the sign schedule on sheet 5(2).
14. All Std. STP-1 structures to be single post unless otherwise noted on sheet 5(2).
15. Contractor shall pre-mark all permanent markings for the Engineer's approval and notify the Engineer when ready for review prior to application of markings.

PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE, 4" WIDTH
- (B) TYPE B, CLASS I, DOUBLE YELLOW, SKIP 4" WIDTH, 4" GAP, 2' LONG, 6' SPACE
- (C) TYPE B, CLASS I, WHITE, 24" WIDTH
- (D) TYPE B, CLASS I, DOUBLE YELLOW, 4" WIDTH, 4" GAP
- (E) TYPE B, CLASS II, SINGLE TURN ARROW
- (F) TYPE B, CLASS VI, WHITE 4" WIDTH WITH CONTRAST
- (G) TYPE B, CLASS VI, DOUBLE YELLOW 4" WIDTH, 4" GAP WITH CONTRAST

INDEX OF SHEETS

Sheet No.:	Sheet Description:
5(1)	Index of Sheets, General Notes, & Legends
5(2)	Sign Schedule
5(3)	Signing and Marking Plan

90% PLANS

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TRAFFIC CONTROL DEVICE PLANS
INDEX OF SHEETS, GENERAL NOTES & LEGEND

PROJECT MANAGER NAJEEBULLAH BEHNAM (434-459-9763) (CITY OF CHARLOTTESVILLE)
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SIGN SCHEDULE

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 P-101 B-620 C-501 RW-201	5(2)

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Kimley-Horn & Associates
Charlottesville, Virginia
ROADWAY ENGINEER

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	MUTCD ST'D.	SIGN ASSEMBLY COMPONENTS		QTY.	SIGN PANEL AREA (s.f.)		PROP. SIGN STRUCTURE ST'D.	REMARKS
				W	H		PER ASSEMBLY	ALL ASSEMBLIES		
101	501		R6-1	36"	12"	1	2125	2125	STP-1 (1) 2" 14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
			RI-1	36"	36"					
			R5-5	30"	30"					
102	502		RI-1	36"	36"	1	1525	1525	STP-1 (1) 2" 14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
			R5-5	30"	30"					
103	503		RI-1	36"	36"	1	9	9	STP-1 (1) 2" 14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
104	507								TO BE RESET USING EXISTING DECORATIVE SIGN POST	RELOCATE EXISTING SIGN STRUCTURE
105	508								STP-1 (2) 2" 14 GA STEEL SQUARE TUBE POST	REMOVE AND RESET EXISTING SIGN TYPE A FOUNDATION
106	509		W11-2	30"	30"	2	8.5	17	509 - STP-1 (1) 2" 14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION SIGN TO BE FLUORESCENT YELLOW GREEN
	510		W16-7PL	2"	15"				510 - TO BE INSTALLED ON EXIST. UTILITY POLE	

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	MUTCD ST'D.	SIGN ASSEMBLY COMPONENTS		QTY.	SIGN PANEL AREA (s.f.)		PROP. SIGN STRUCTURE ST'D.	REMARKS
				W	H		PER ASSEMBLY	ALL ASSEMBLIES		
107	511		RI-1	30"	30"	1	625	625	STP-1 (1) 2" 14 GA STEEL SQUARE TUBE POST	RELOCATE EXISTING STREET SIGNS TYPE A FOUNDATION
108	512		R3-1	24"	24"	1	4	4	STP-1 (1) 2" 14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
109	513		R3-2	24"	24"	1	4	4	STP-1 (1) 2" 14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION
110	514,515		R5-1A	36"	24"	2	6	12	STP-1 (1) 2" 14 GA STEEL SQUARE TUBE POST	TYPE A FOUNDATION

90% PLANS

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NOTES:

- ALL SIGNS SHALL BE ORIENTATED AS SHOWN ON THE PLANS.
- SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA SHS BOOK AND THE 2011 VIRGINIA SHS BOOK OR AS NOTED IN THE PLANS.
- REFLECTIVE SHEETING SHALL BE TYPE XI UNLESS OTHERWISE NOTED IN THE REMARKS. ALL REFLECTIVE SHEETING SHALL BE IN ACCORDANCE WITH TABLE VII-1A OF THE 2020 VDOT ROAD AND BRIDGE SPECIFICATIONS.
- ALL BLACK SHEETING SHALL BE NON-REFLECTIVE.
- SIGN STRUCTURES SHALL BE INSTALLED PER THE NOTED SIGN ST'D.
- ALL ST'D STP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL DEVICE PLANS

SIGN SCHEDULE

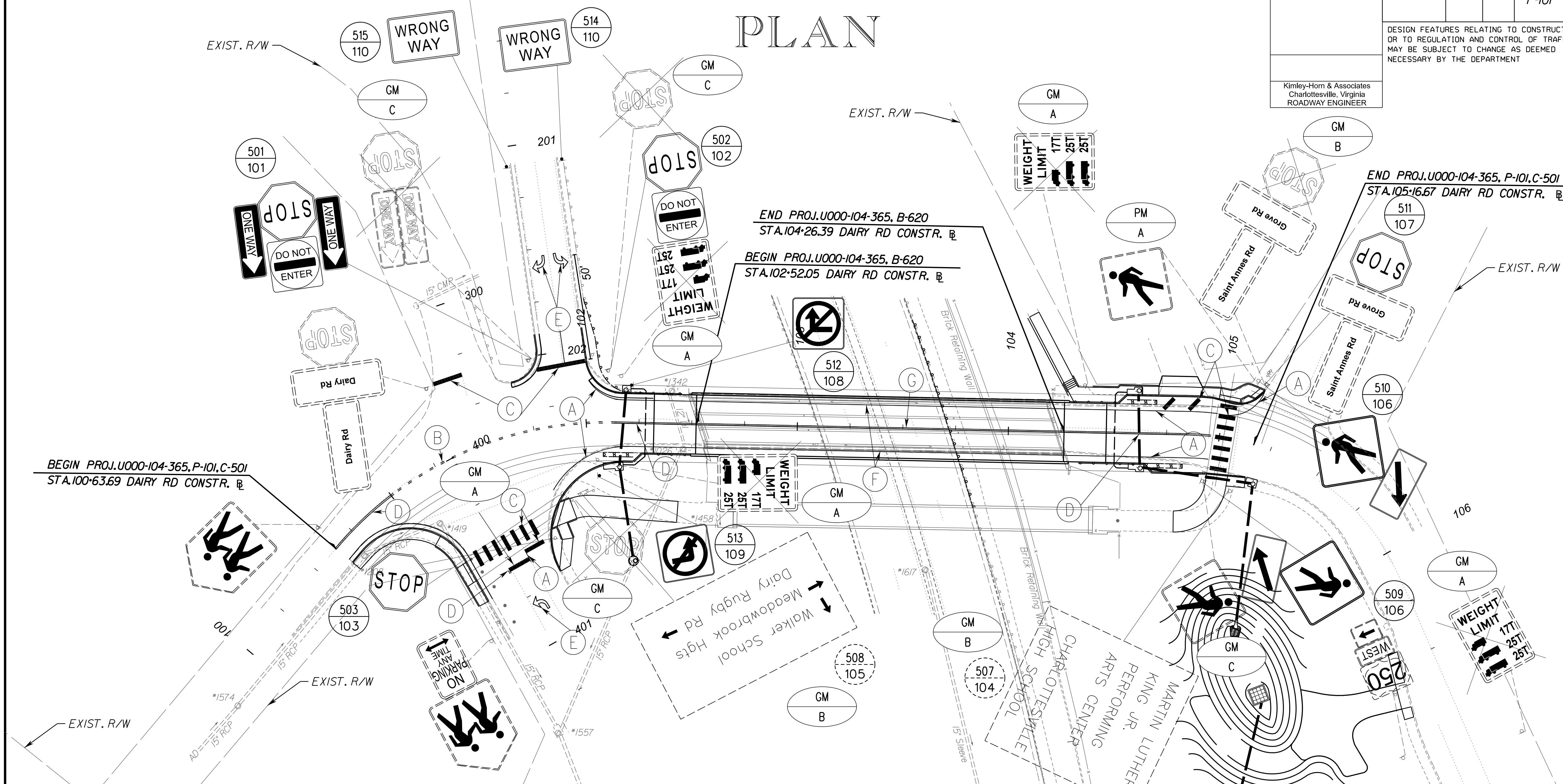
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SIGNING & PAVEMENT MARKING PLAN

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	N/A	U000-104-365 P-101 B-620	5(3)

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 Charlottesville, Virginia
 ROADWAY ENGINEER



BEGIN PROJ.U000-104-365,P-101,C-501
 STA.100+63.69 DAIRY RD CONSTR. B

END PROJ.U000-104-365, B-620
 STA.104+26.39 DAIRY RD CONSTR. B

BEGIN PROJ.U000-104-365, B-620
 STA.102+52.05 DAIRY RD CONSTR. B

END PROJ.U000-104-365, P-101,C-501
 STA.105+16.67 DAIRY RD CONSTR. B

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

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Existing Storm Sewer Data	ID
Constr. Alignment Data	IE
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Roadway Profile	3A
Side Street Profiles	3B
Drainage Descriptions	4(I)

PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE, 4" WIDTH
- (B) TYPE B, CLASS I, DOUBLE YELLOW, SKIP 4" WIDTH, 4" GAP, 2' LONG, 6' SPACE
- (C) TYPE B, CLASS I, WHITE, 24" WIDTH
- (D) TYPE B, CLASS I, DOUBLE YELLOW, 4" WIDTH, 4" GAP
- (E) TYPE B, CLASS II, SINGLE TURN ARROW
- (F) TYPE B, CLASS VI, WHITE 4" WIDTH WITH CONTRAST
- (G) TYPE B, CLASS VI, DOUBLE YELLOW 4" WIDTH, 4" GAP WITH CONTRAST

90% PLANS

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PROJECT	U000-104-365
SHEET NO.	5(3)

PROJECT MANAGER NAJEEBULLAH BEHNAM (434-459-9763) (CITY OF CHARLOTTESVILLE)
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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	N/A		U000-104-365 P-101 B-620 C-501	6(3)

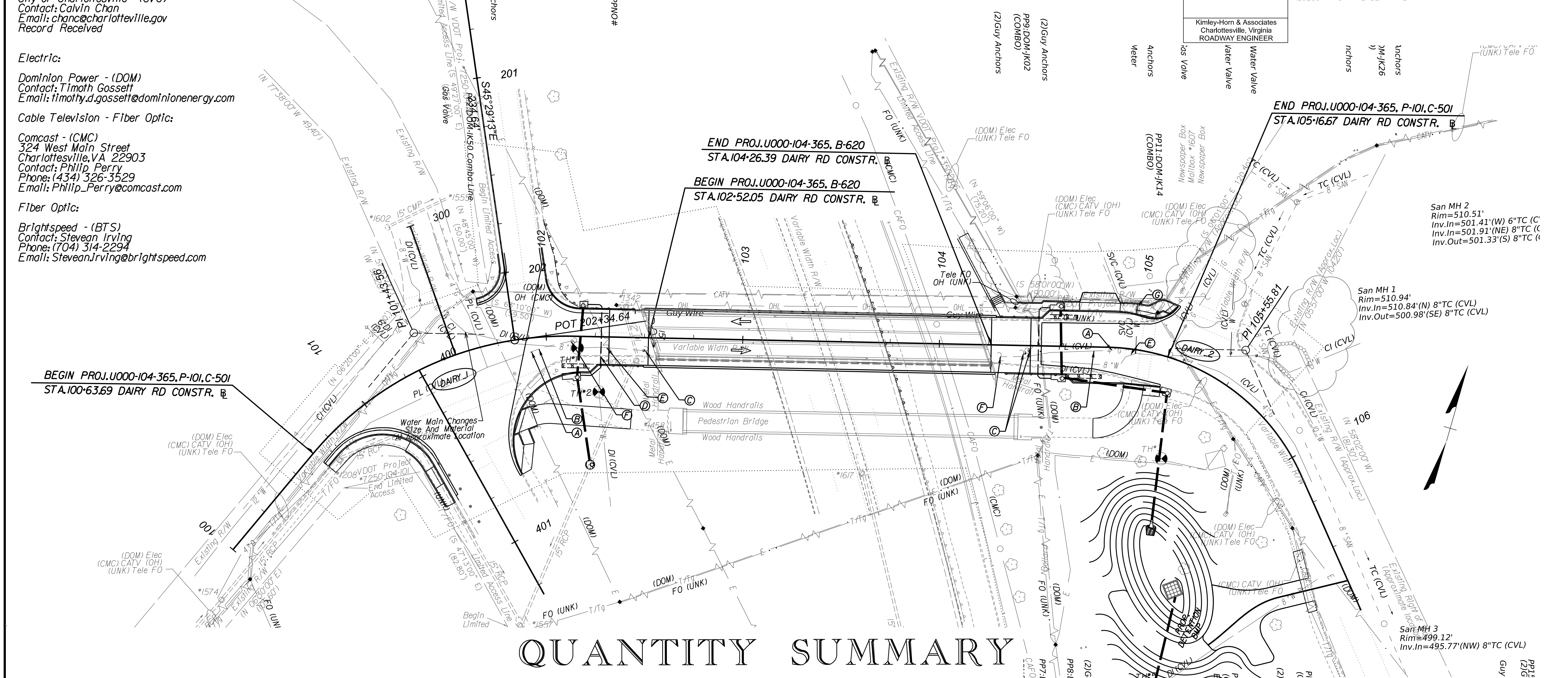
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Kimley-Horn & Associates
Charlottesville, Virginia
ROADWAY ENGINEER

UTILITY OWNER INFORMATION:

- Water, Sewer & Gas:**
City of Charlottesville - (CVU)
Contact: Calvin Chan
Email: chanc@charlottesville.gov
Record Received
- Electric:**
Dominion Power - (DOM)
Contact: Timothy Gossett
Email: timothy.d.gossett@dominionenergy.com
- Cable Television - Fiber Optic:**
Comcast - (CMC)
324 West Main Street
Charlottesville, VA 22903
Contact: Philip Perry
Phone: (434) 326-3529
Email: Philip_Perry@comcast.com
- Fiber Optic:**
Brightspeed - (BTS)
Contact: Stevan Irving
Phone: (704) 314-2294
Email: Stevan.Irving@brightspeed.com

UTILITY ADJUSTMENT PLANS



QUANTITY SUMMARY

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	ID
Existing Storm Sewer Data	ID
Constr. Alignment Data	IE
Roadway Plan	3
Roadway Profile	3A
Side Street Profiles	3B
E&S Phase I Plan	3C
Drainage Descriptions	4(I)

- LEGEND**
- (A) SQUEEZE OFF EX. 4" PLS GAS MAIN
 - (B) INSTALL 4" PLS CAP
 - (C) REMOVE EX. WATER VALVE & BOX ASSEMBLY
 - (D) BRANCH SECTION OF TEE TO REMAIN ACTIVE
 - (E) CUT & CAP EX. 8" WATER
 - (F) REMOVE EX. GAS VALVE & BOX ASSEMBLY
 - (G) ADJUST EXIST. WATER METER TO PROPOSED GRADE

	SQUEEZE OFF EX. 4" PLS GAS MAIN	INSTALL 4" PLS CAP	REMOVE EX. WATER VALVE & BOX ASSEMBLY	BRANCH SECTION OF TEE TO REMAIN ACTIVE	CUT & CAP EX. 8" WATER	REMOVE EX. GAS VALVE & BOX ASSEMBLY	ADJUST EX. WATER METER TO PROPOSED GRADE
UNIT	EA	EA	EA	EA	EA	EA	EA
TOTAL	2	2	3	1	2	2	1

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THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

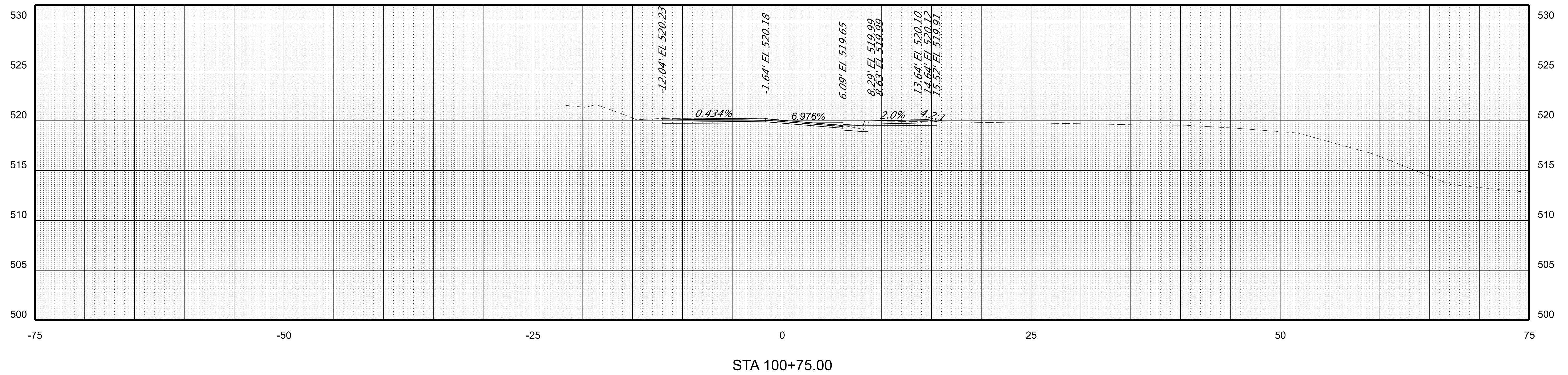
PROJECT MANAGER **NAJEEBULLAH BEHNNAM (434-459-9763) (CITY OF CHARLOTTESVILLE)**
SURVEYED BY, DATE **H&B Survey and Mapping, LLC 11/11/2024**
DESIGN BY **Kimley-Horn & Associates, Inc.**
SUBSURFACE UTILITY BY, DATE **INFRAMAP CORP. 10/30/2024**

CROSS SECTIONS

SCALE 1 IN. = 5 FT

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

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	N/A	U000-104-365 PE-101 RW-201 C-501 B-620	1



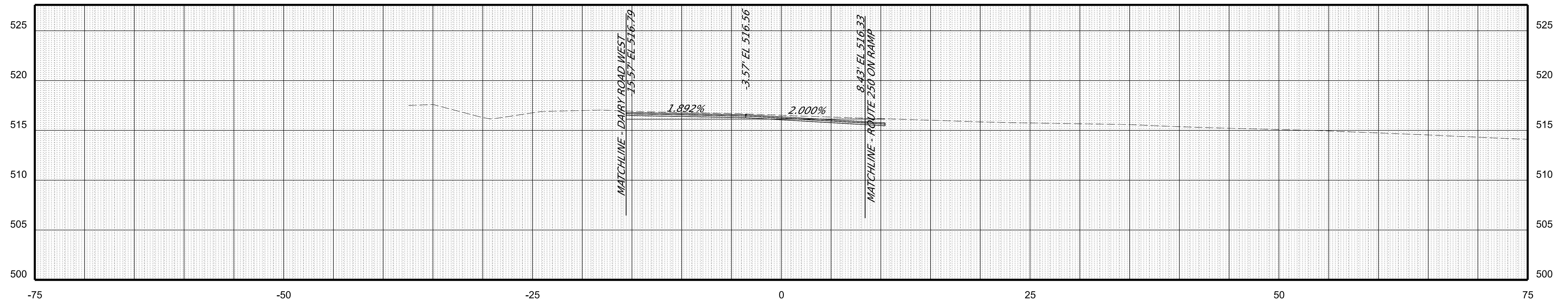
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CROSS SECTIONS

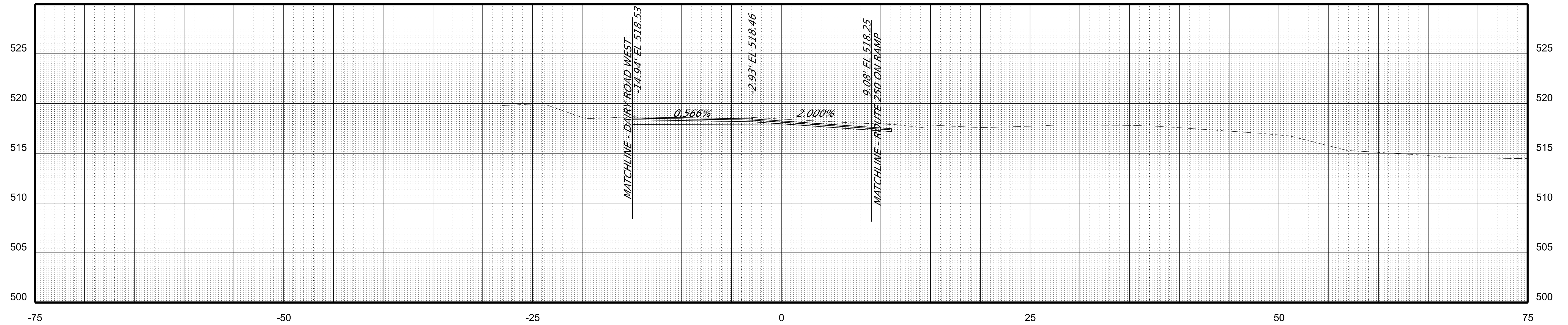
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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	N/A	U000-104-365 PE-101 RW-201 C-501 B-620	2



STA 101+25.00



STA 101+00.00

PROJECT	SHEET NO.
U000-104-365	2

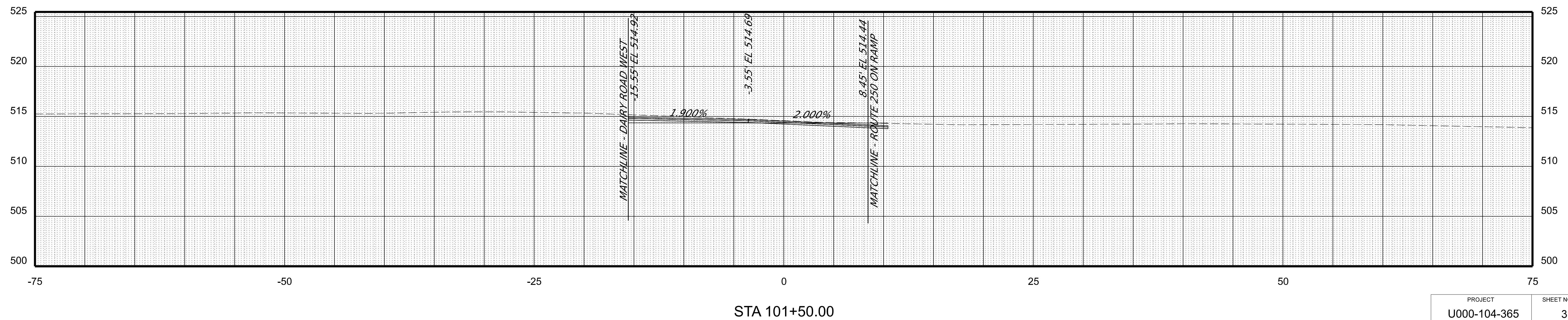
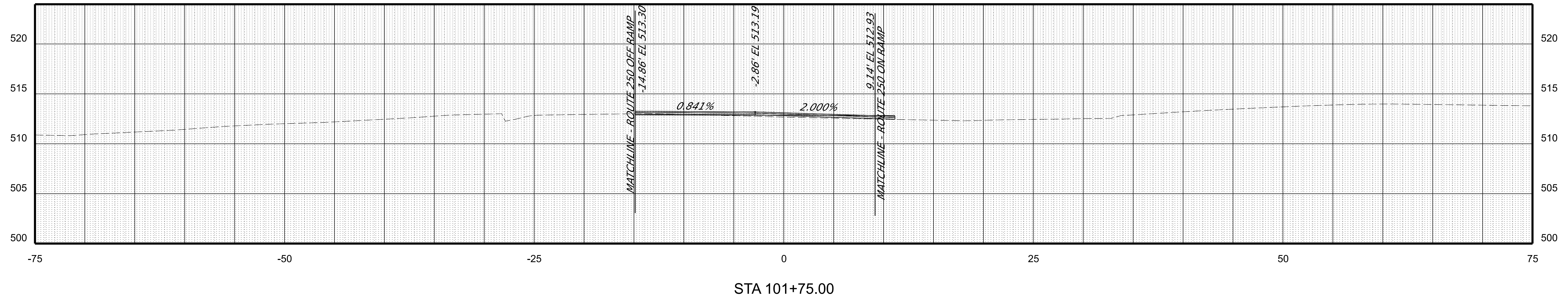
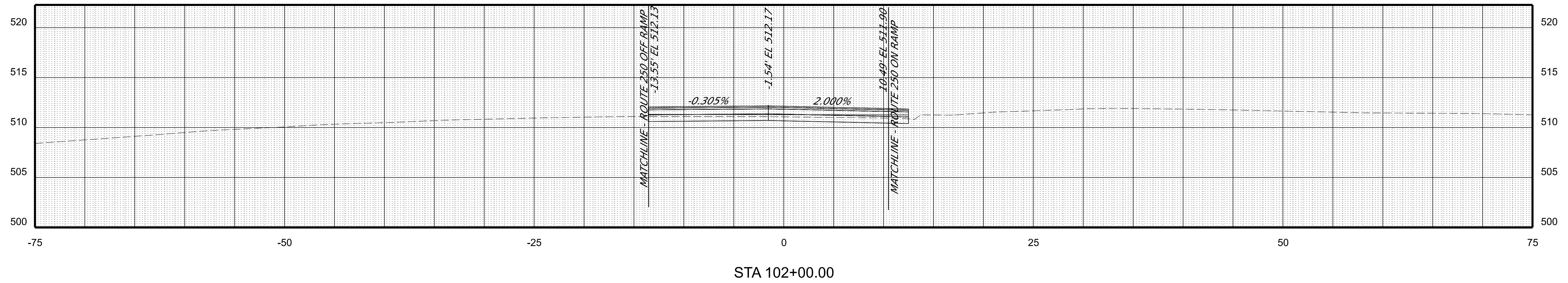
PROJECT MANAGER NAJEEBULLAH BEHNNAM (434-459-9763) (CITY OF CHARLOTTESVILLE)
SURVEYED BY, DATE H&B Survey and Mapping, LLC 11/11/2024
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SUBSURFACE UTILITY BY, DATE INFRAMAP CORP. 10/30/2024

CROSS SECTIONS

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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	N/A	U000-104-365 PE-101 RW-201 C-501 B-620	3



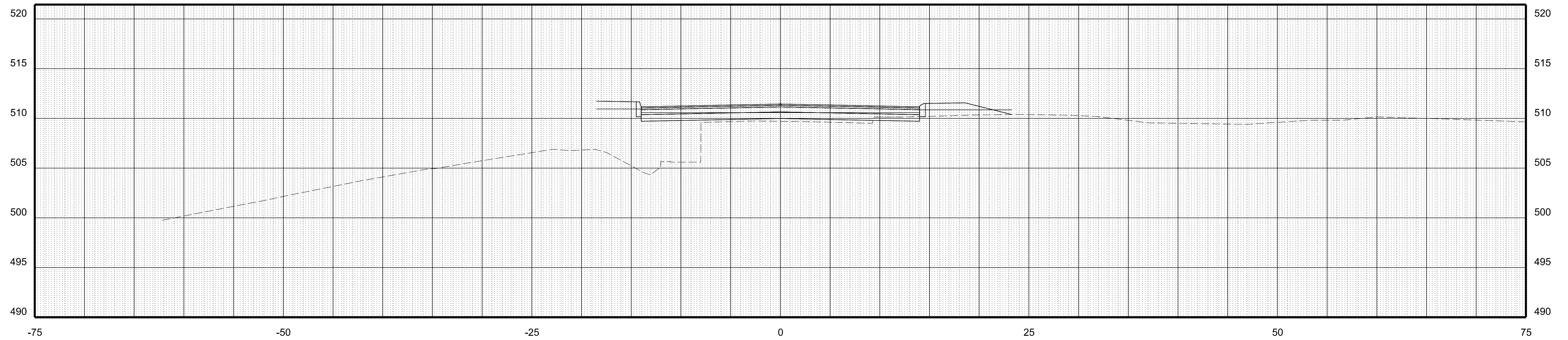
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CROSS SECTIONS

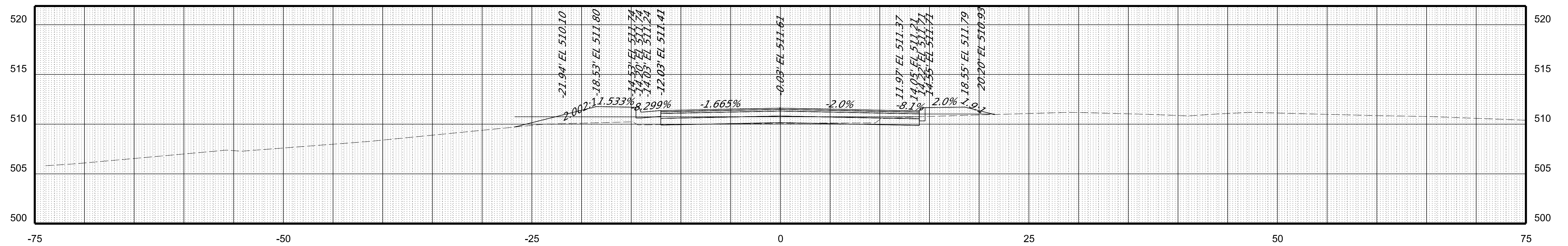
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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	N/A	U000-104-365 PE-101 RW-201 C-501 B-620	4



STA 102+50.00



STA 102+25.00

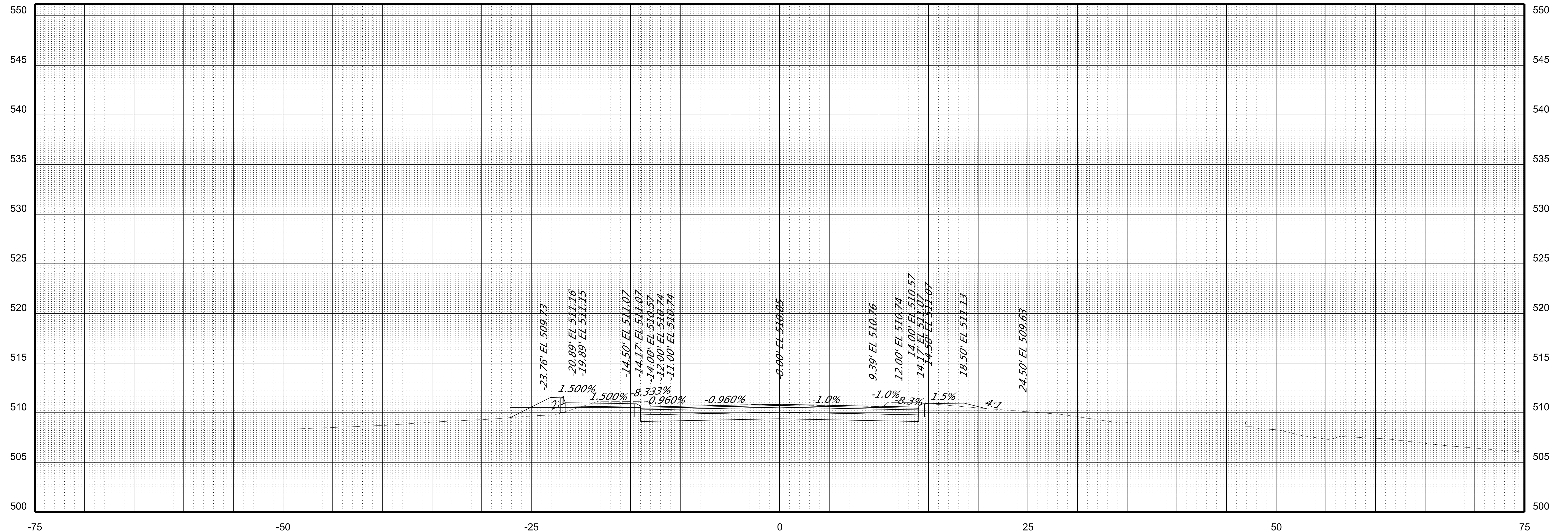
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REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	N/A	U000-104-365 PE-101 RW-201 C-501 B-620	5



STA 104+50.00

PROJECT	SHEET NO.
U000-104-365	5

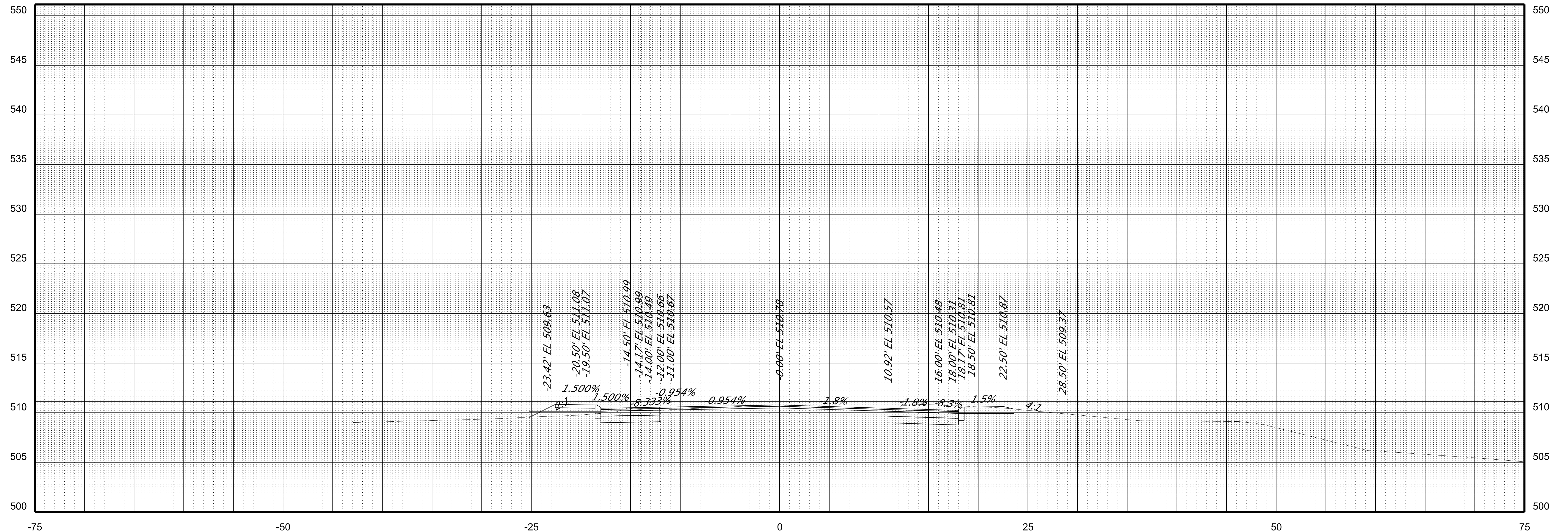
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REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	N/A	U000-104-365 PE-101 RW-201 C-501 B-620	6



STA 104+75.00

PROJECT	SHEET NO.
U000-104-365	6

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