

RIGHT OF WAY DATA TABLE

PARCEL INFORMATION				AREAS												PROFFERS	
				TOTAL PARCEL SIZE	FEE TAKING	PRESCRIPTIVE R/W	FEE REMAINDER	EASEMENTS									
PARCEL NO.	LANDOWNER	TAX MAP NO.	SHEET NO.		ACRES	SF	ACRES	ACRES	SF								
001	Kroger Limited Partnership I	496-27-4	C1.1, C4.0, C9.2, C9.3	11.074				11.074									3,684
TOTAL =																	3,684

AMT
A. MORTON THOMAS AND ASSOCIATES, INC.
CONSULTING ENGINEERS
105 ARBOR DRIVE, SUITE 200
CHRISTIANSBURG, VA 24073
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CONSULTANTS

NOT FOR
CONSTRUCTION

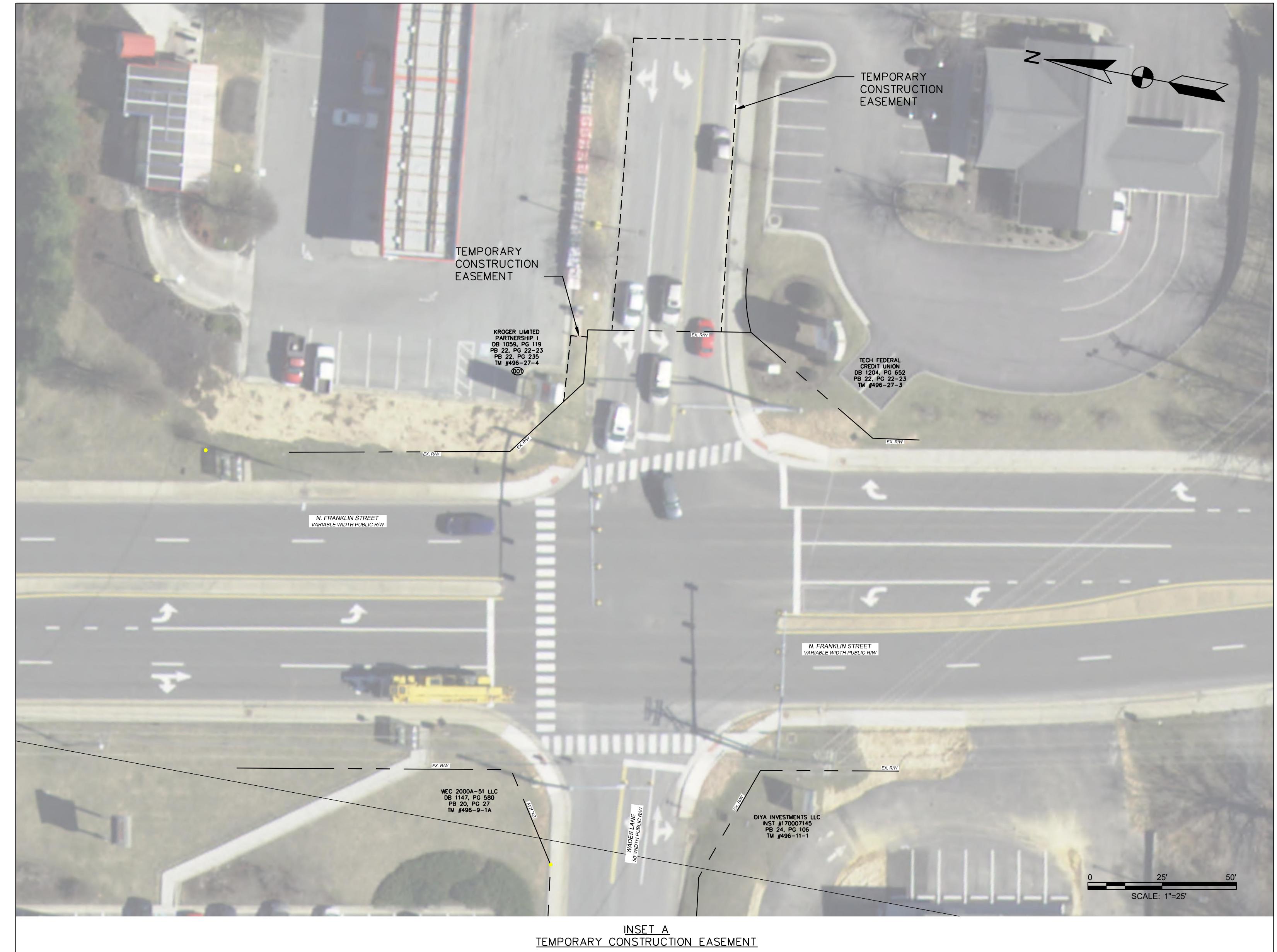


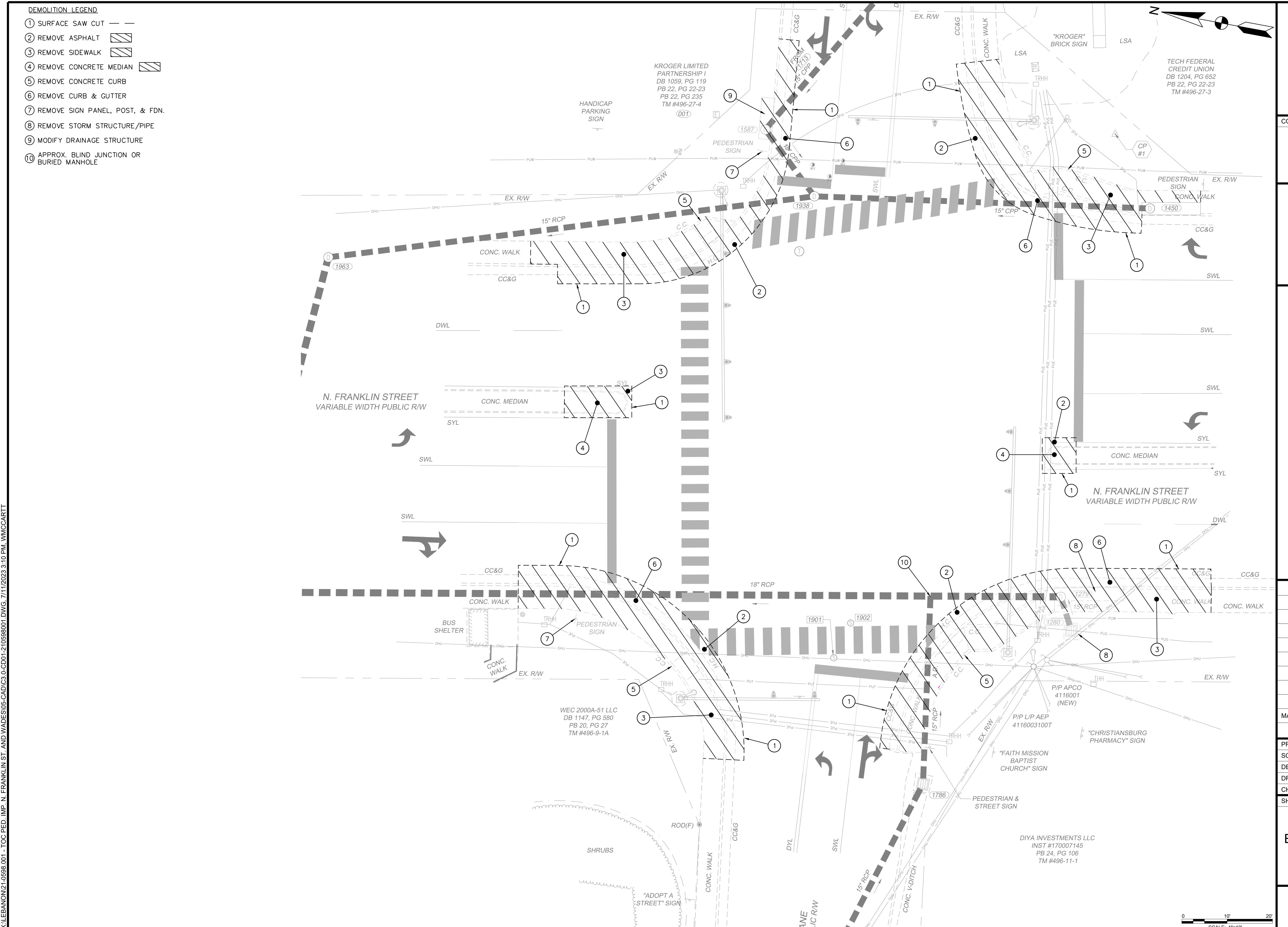
N. FRANKLIN STREET
AND WADES LANE
PEDESTRIAN
IMPROVEMENTS
STATE PROJECT NO.
EN20-154-251
UPC 117997
TOWN OF CHRISTIANSBURG
100 E. MAIN STREET
CHRISTIANSBURG, VA 24073
PHONE: 540-382-6128
FAX: 540-382-7338

MARK	DATE	DESCRIPTION
60% PLANS (07-10-23)		
PROJECT NO:	21-0598.001	
SCALE:	AS SHOWN	
DESIGNED BY:	CER	
DRAWN BY:	WEM	
CHECKED BY:	DEC	
SHEET TITLE		

RIGHT OF WAY
ACQUISITION SHEET

C1.1





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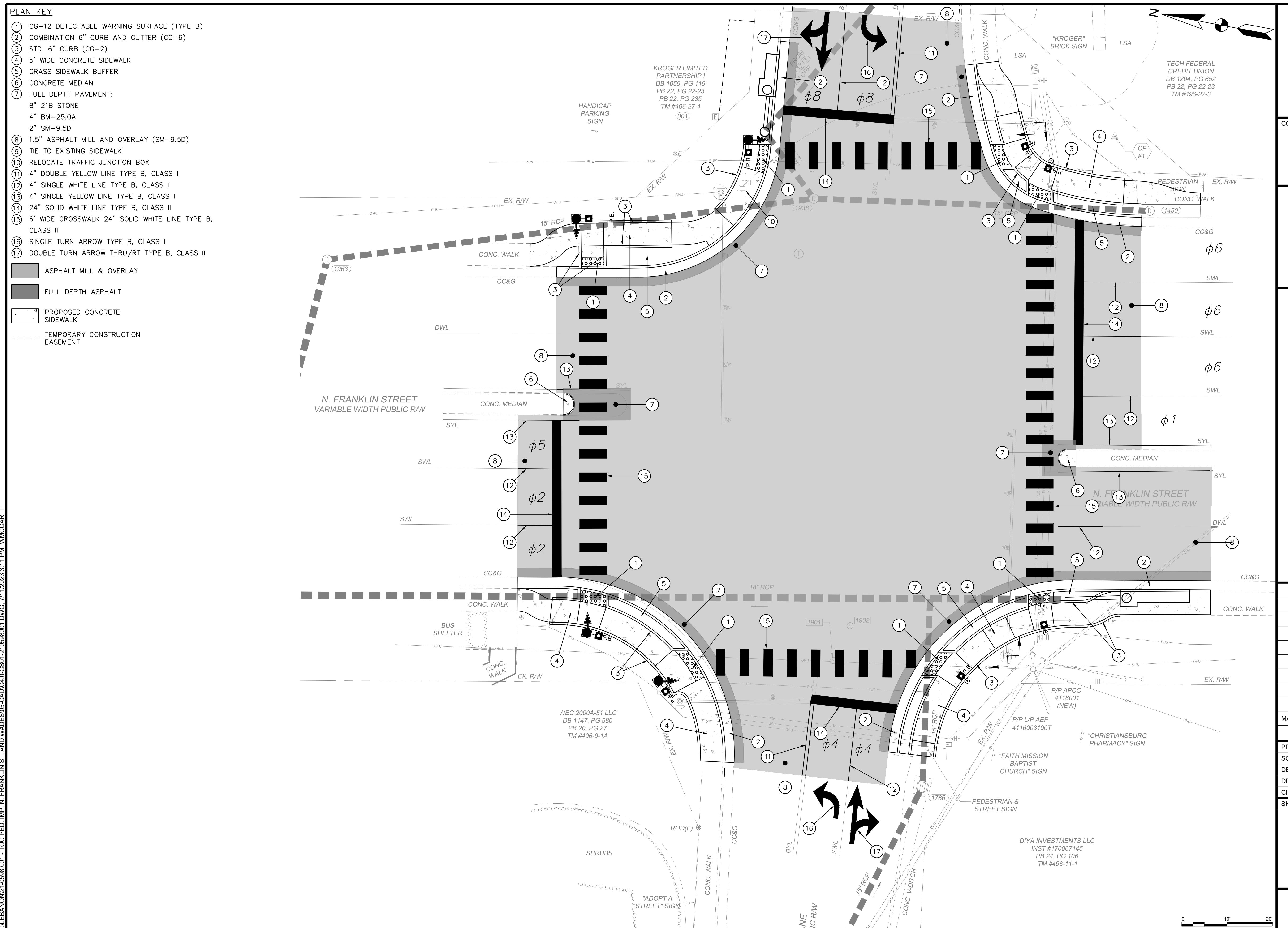
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60% PLANS (07-10-23)		
PROJECT NO:	21-0598.001	
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SHEET TITLE		

EXISTING CONDITIONS & DEMOLITION PLAN

C3.0

SHEET 4 OF 18



NOT FOR
CONSTRUCTION



N. FRANKLIN STREET
AND WADES LANE
PEDESTRIAN
IMPROVEMENTS
STATE PROJECT NO.

EN20-154-251

UPC 117997

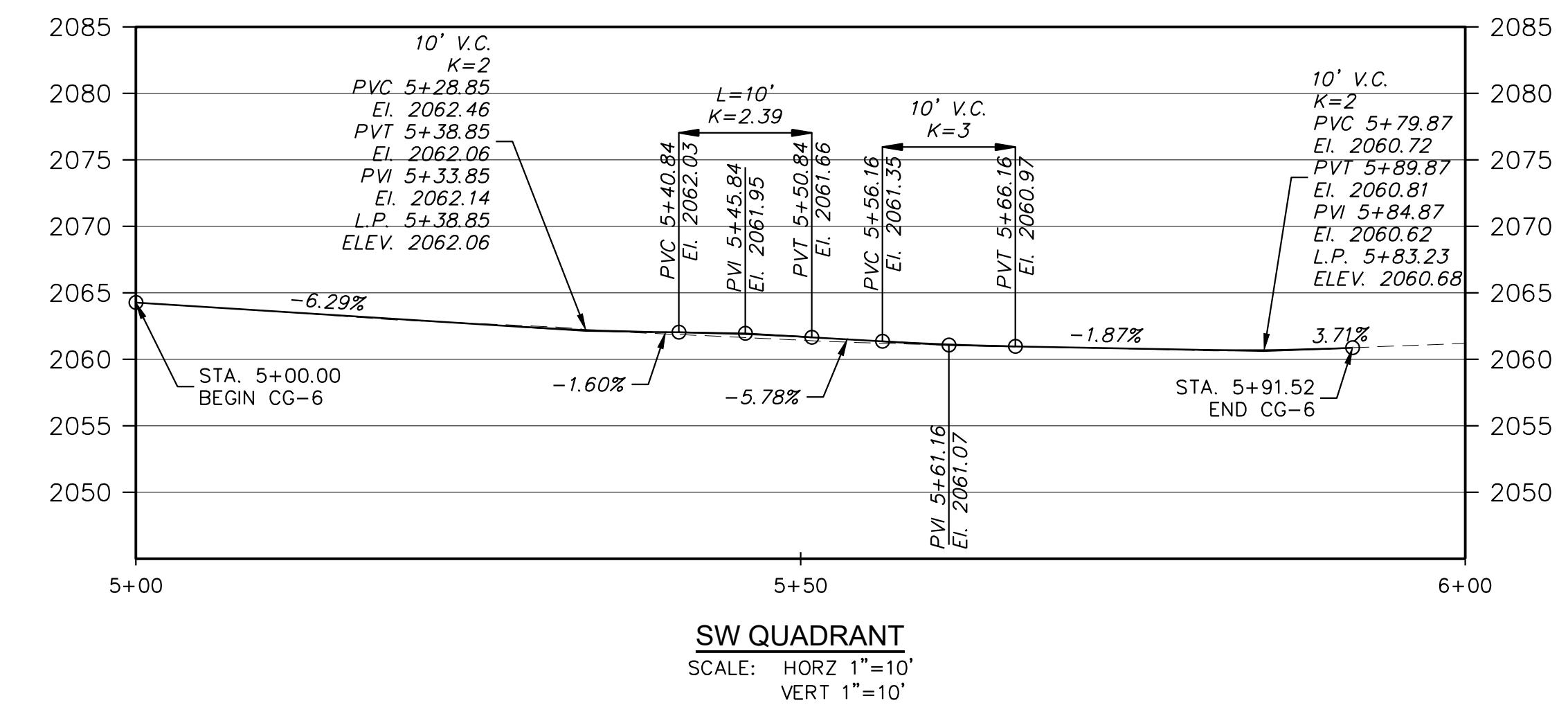
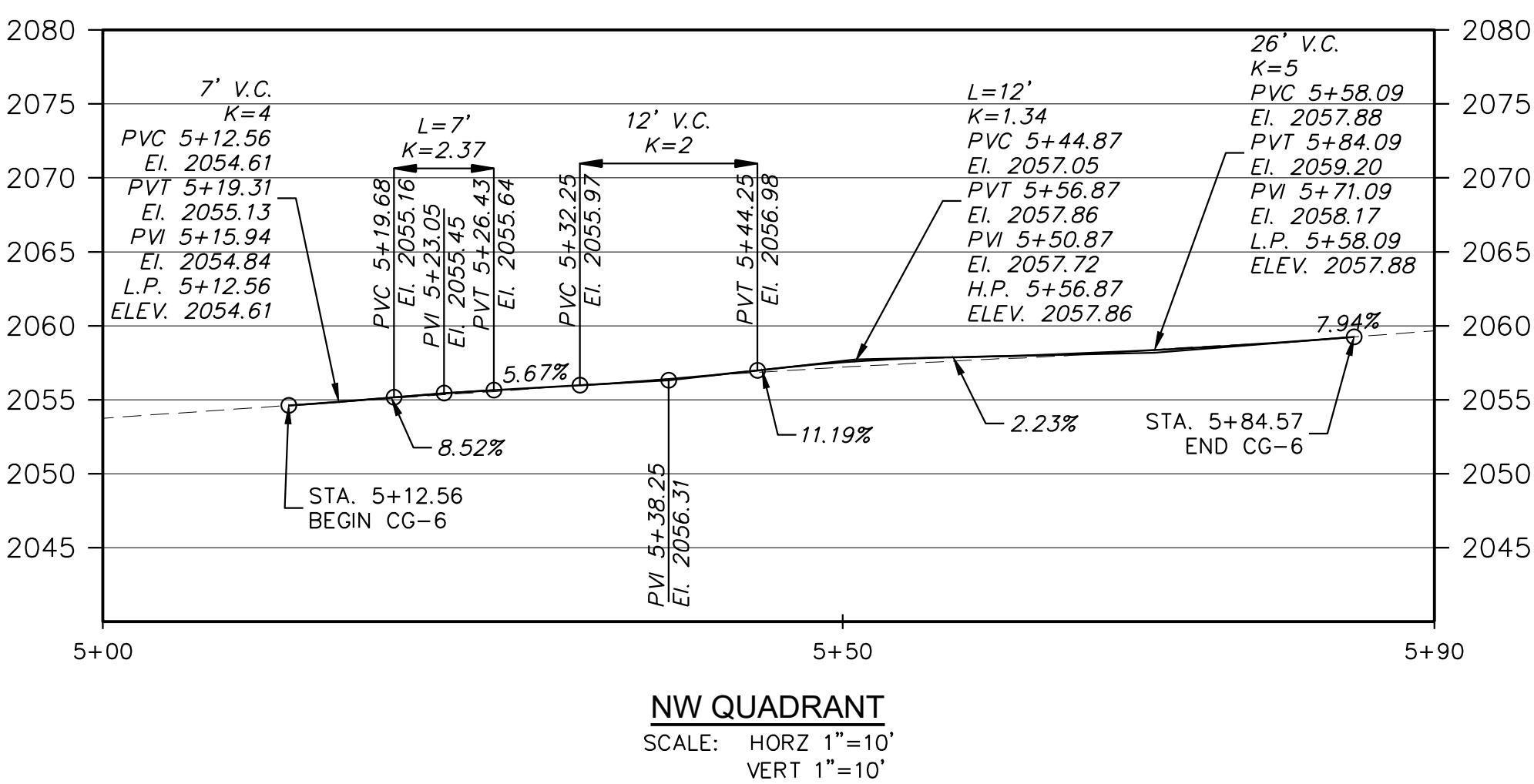
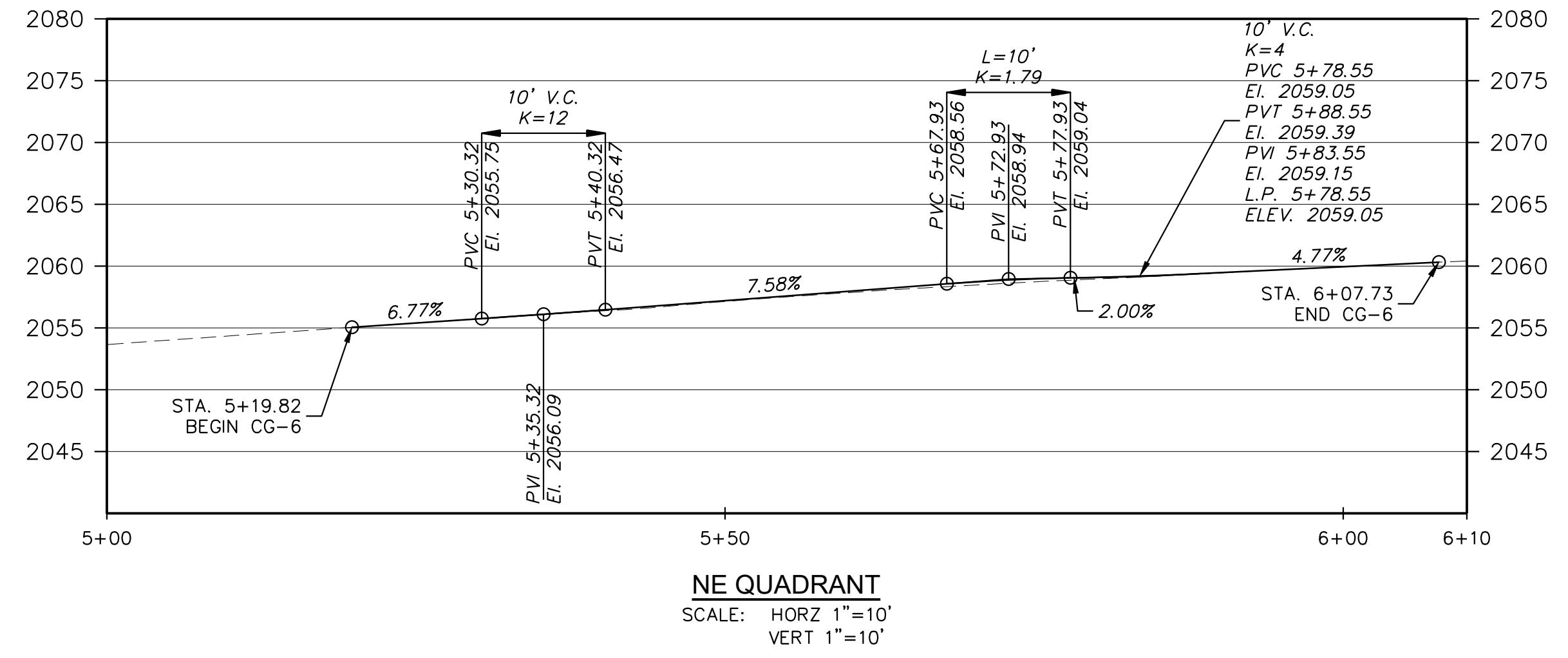
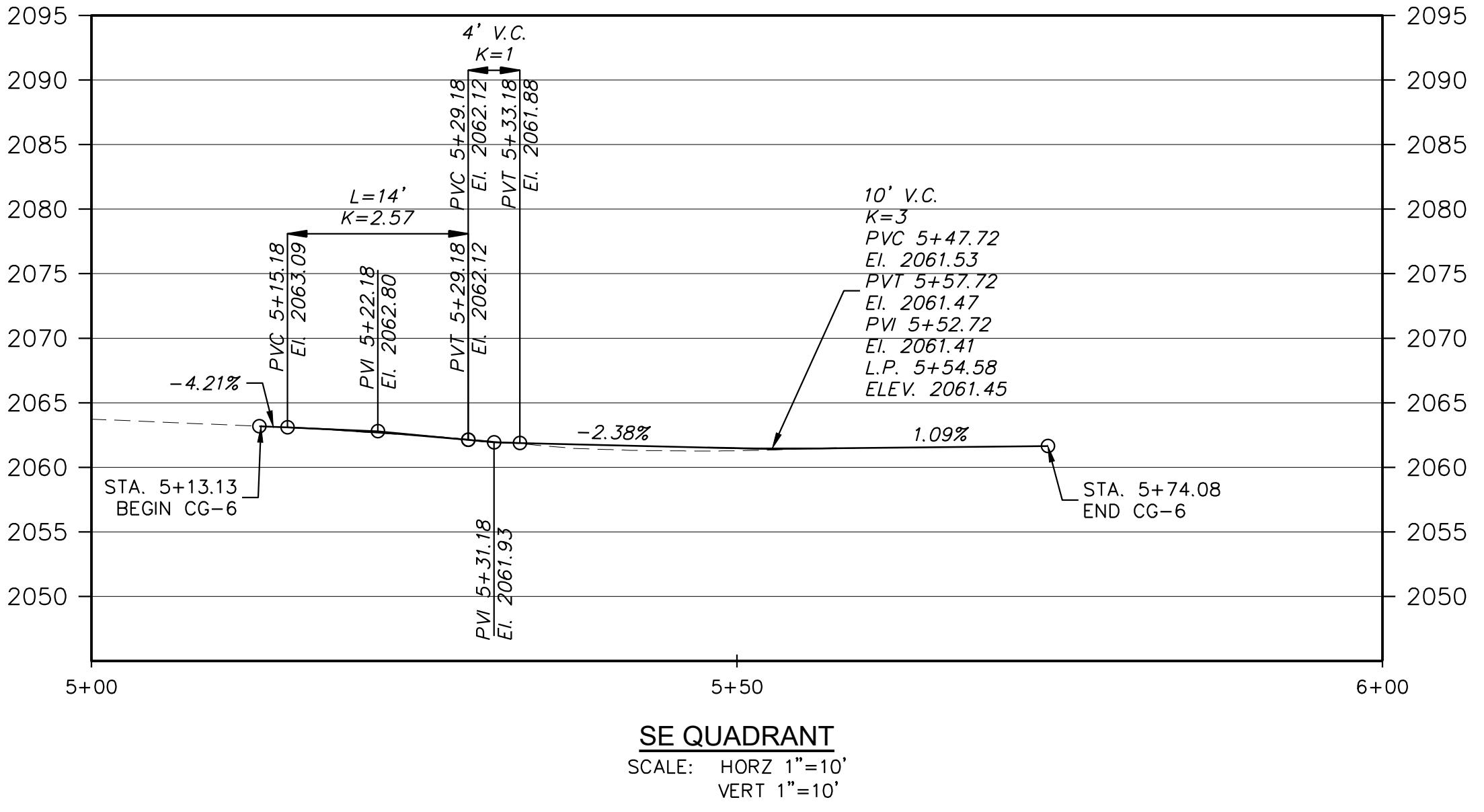
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SHEET TITLE

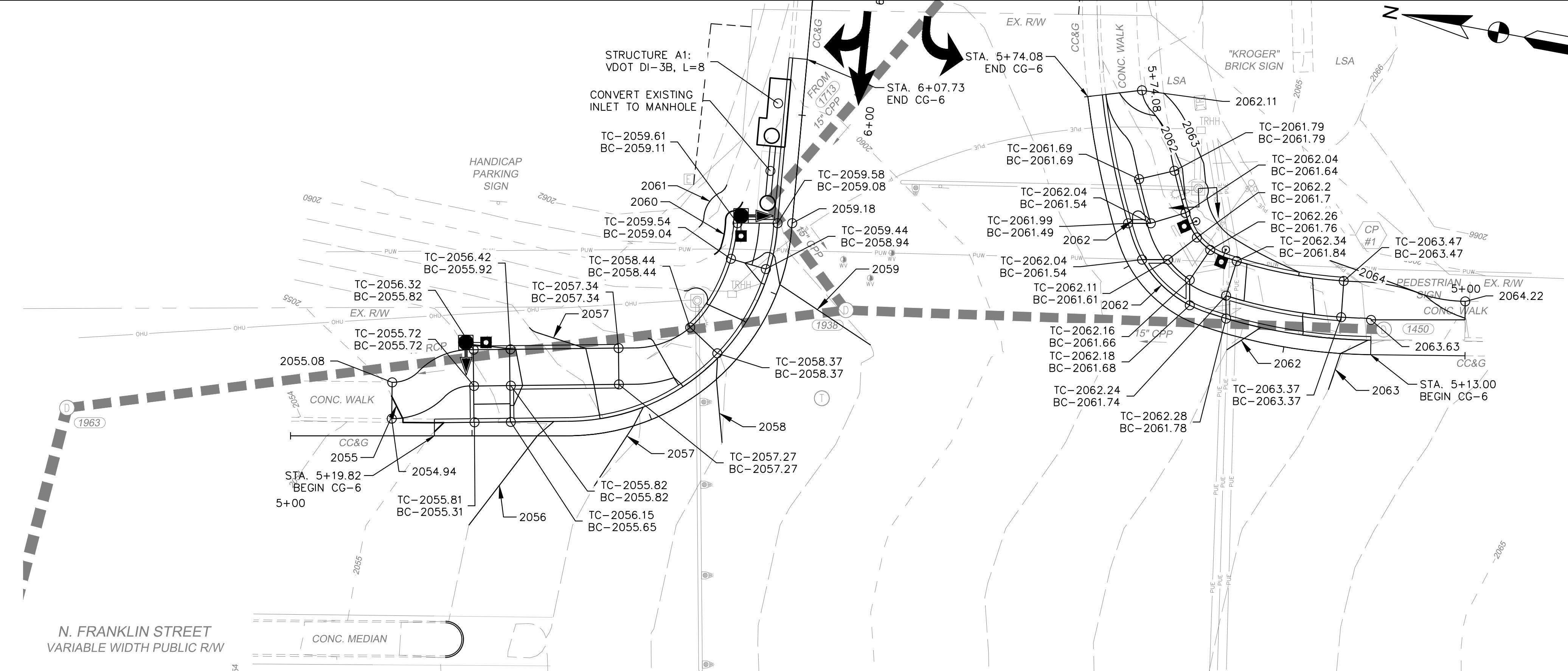
CURB LINE PROFILES

C5.0

SHEET 6 OF 18

GRADING LEGEND

- TC: 2055.82 FIN. GRADE TOP CURB EL.
BC: 2056.32 FIN. GRADE BOTTOM CURB EL.
- 2055.82 FIN. GRADE SPOT EL.
- 2060 — EXIST. GRADE CONTOUR
- 2060 — FIN. GRADE CONTOUR
- 2060 — TEMPORARY CONSTRUCTION EASEMENT



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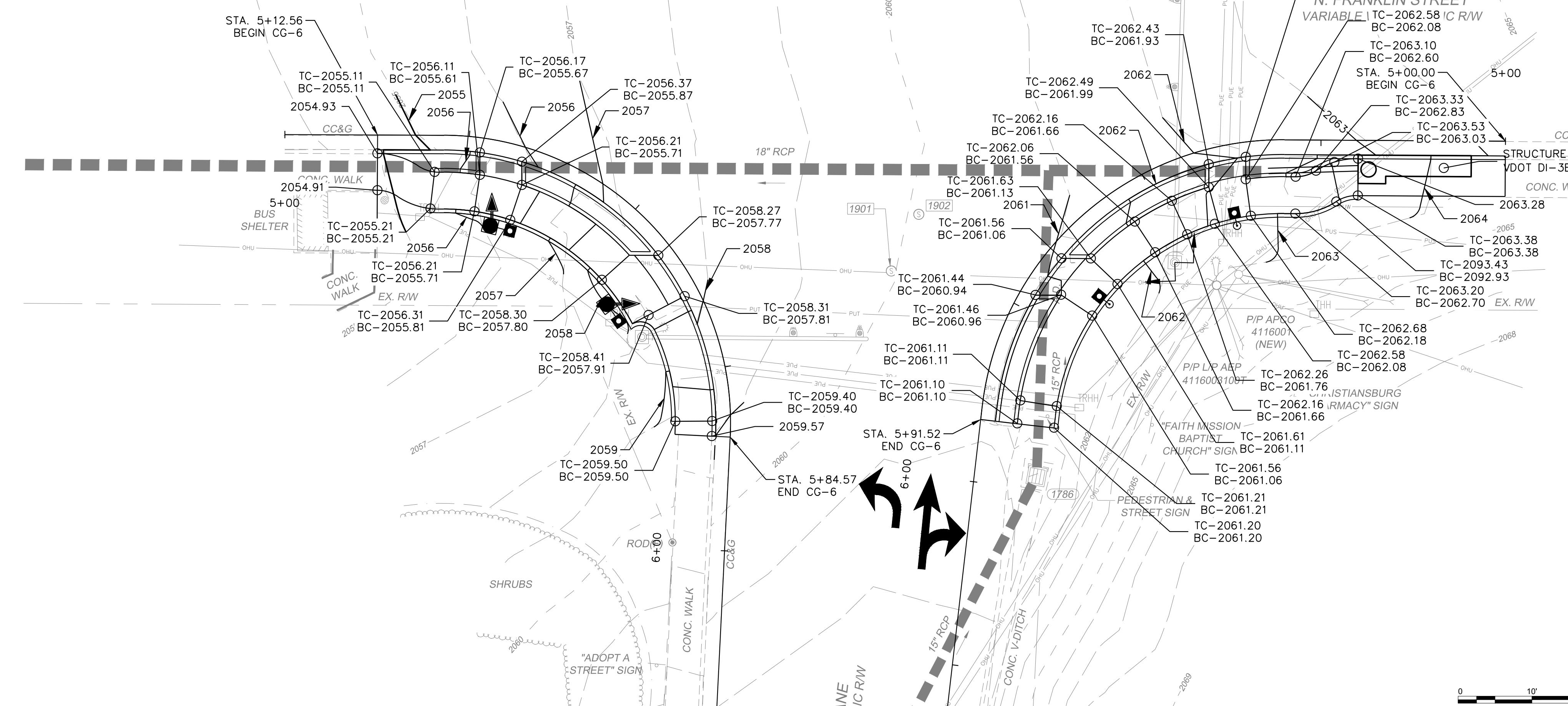
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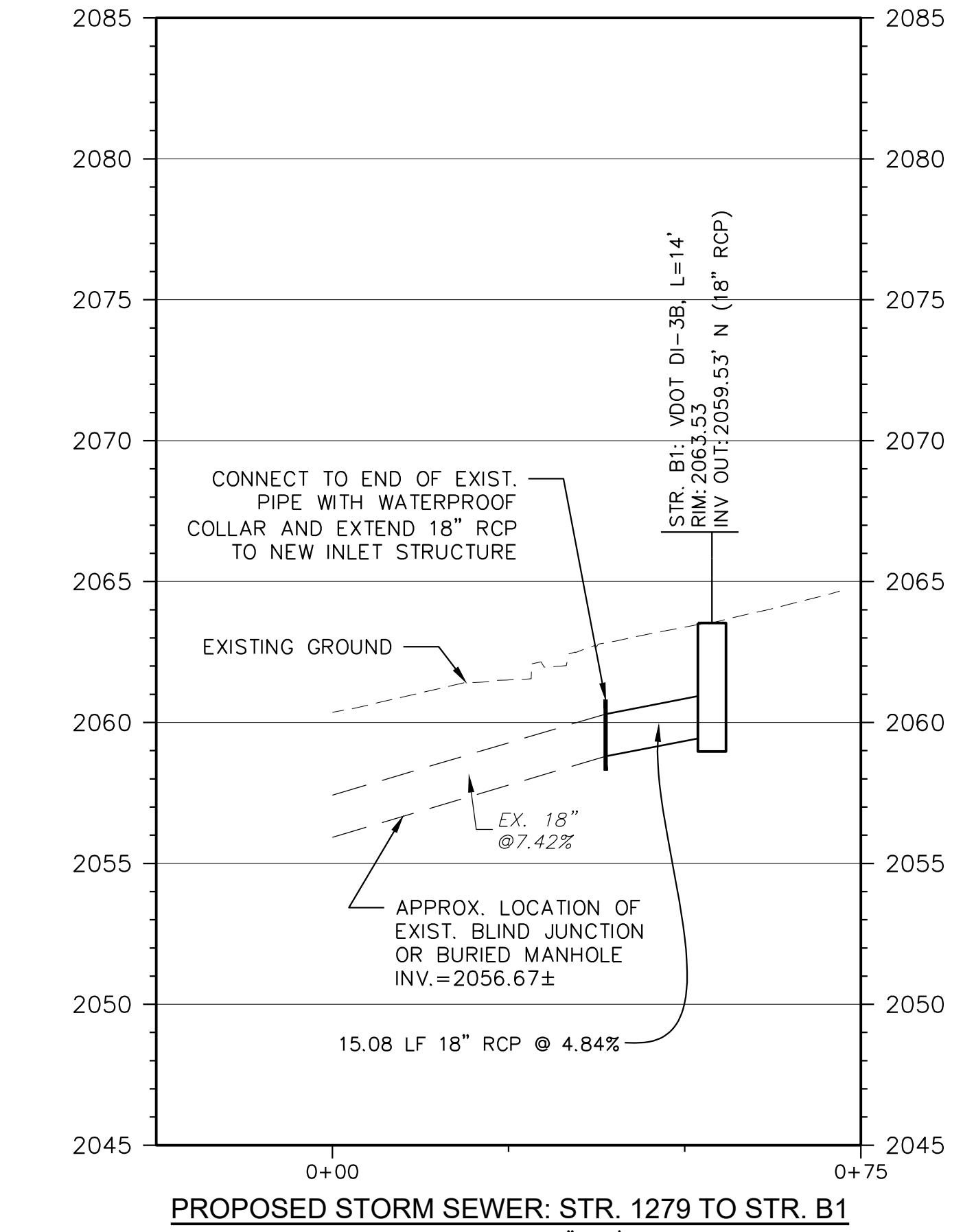
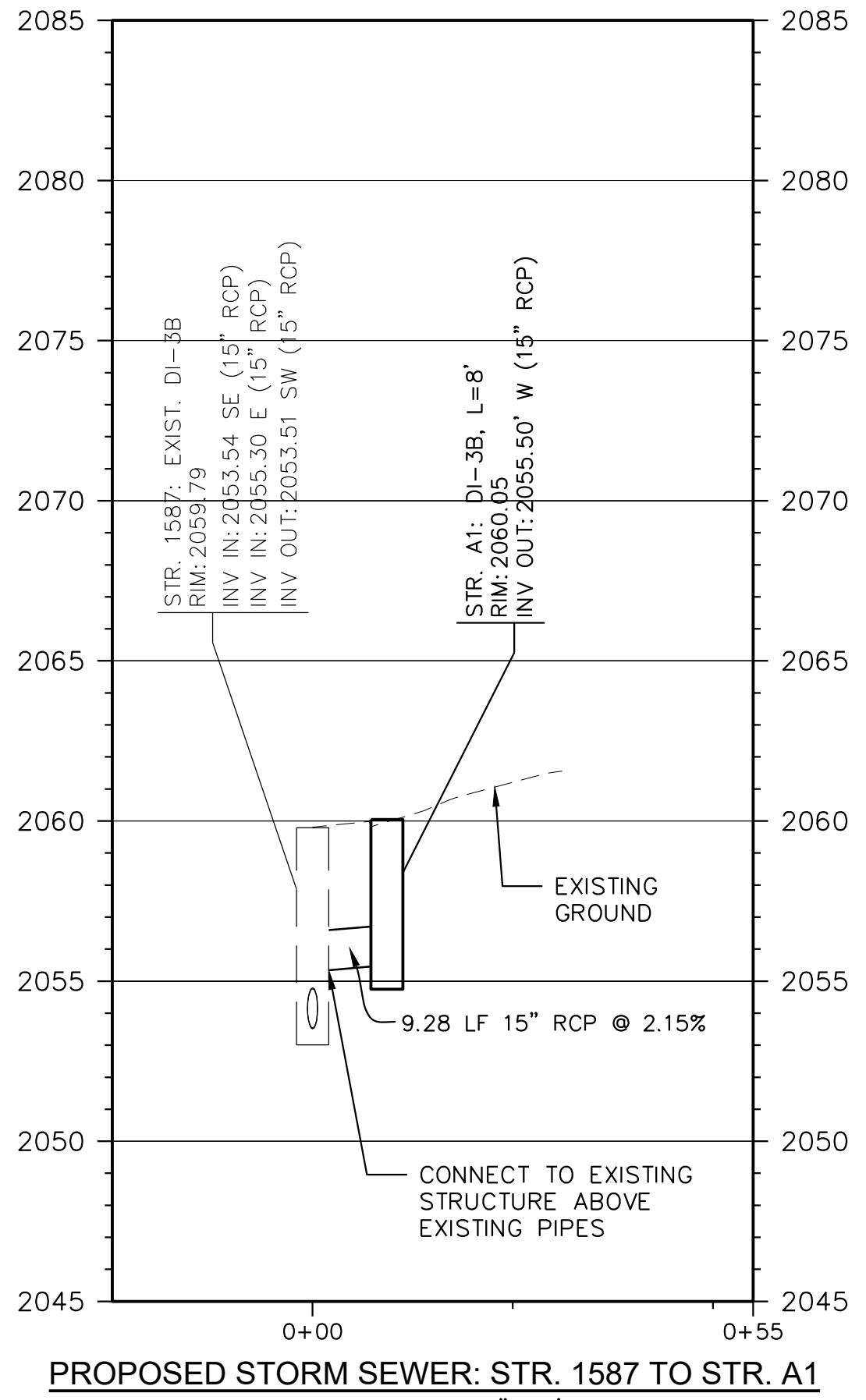
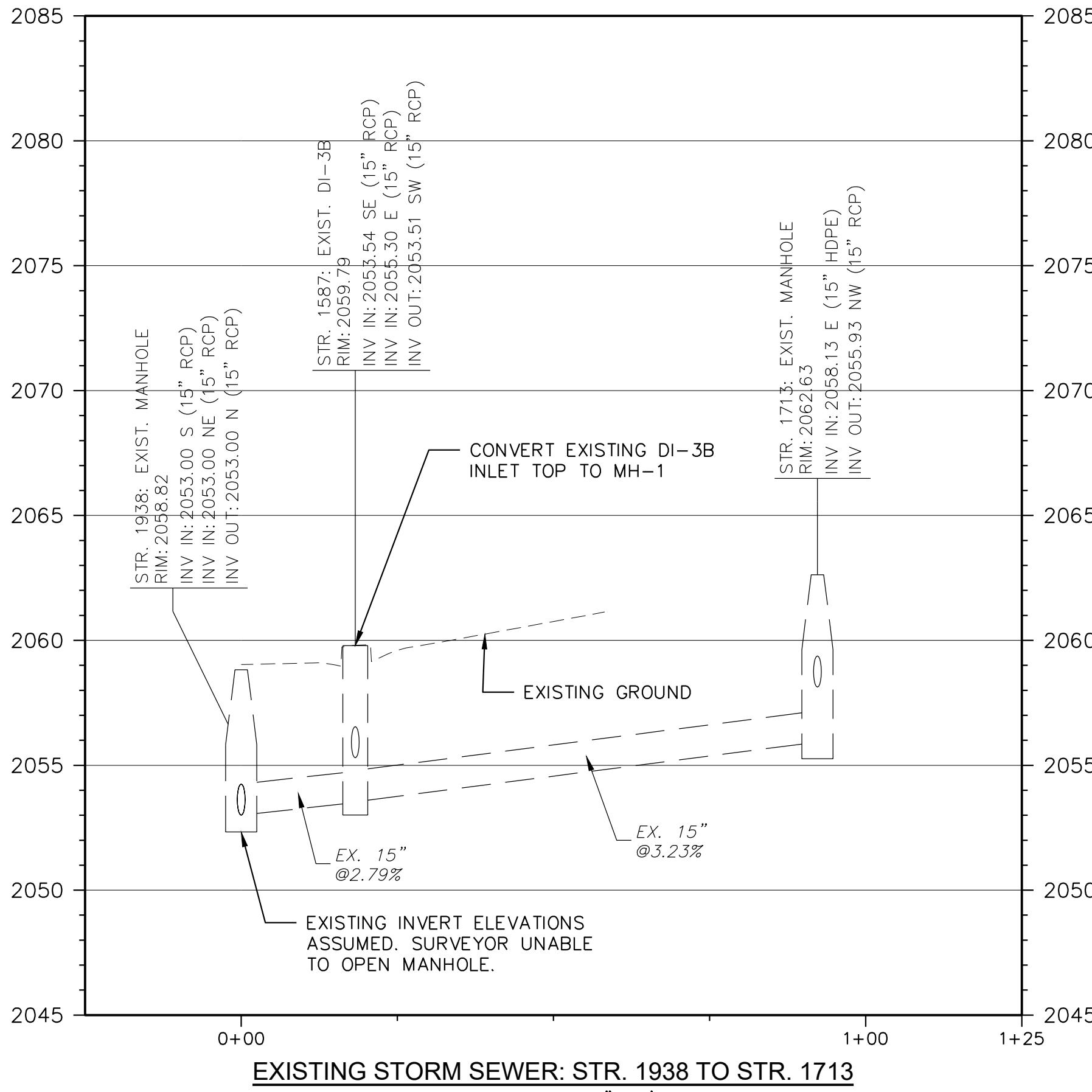
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PROJECT NO:	21-0598.001	
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SHEET TITLE

STORM SYSTEM
PROFILES

C6.1



EROSION CONTROL NARRATIVE**1. PROJECT DESCRIPTION:**

- THIS PROJECT INCLUDES IMPROVEMENTS TO THE INTERSECTION OF N. FRANKLIN STREET AND WADES LANE. IMPROVEMENTS INCLUDE ADA RAMP UPDATES, IMPLEMENTATION OF PEDESTRIAN PUSH BUTTONS AND SIGNAL HEADS, AND RESURFACING OF THE INTERSECTION.

2. EXISTING SITE CONDITIONS:

- THE EXISTING INTERSECTION IS CURRENTLY SIGNALIZED. THE NORTHWEST QUADRANT IS CVS, THE NORTHEAST QUADRANT IS A KROGER GAS STATION, THE SOUTHEAST QUADRANT IS FREEDOM FIRST CREDIT UNION, AND THE SOUTHWEST QUADRANT IS CHRISTIANSBURG PHARMACY. SITE ELEVATIONS OF THE INTERSECTION RANGE FROM 2065 ALONG THE CURB AND GUTTER AT THE SOUTHEAST QUADRANT OF THE INTERSECTION TO 2054 AT THE NORTHWEST QUADRANT OF THE INTERSECTION.
- EXISTING CONDITIONS FOR THE AREA PLANNED FOR DIRECTIONAL ADA RAMPS CURRENTLY HAVE COMBINED RAMPS.

3. ADJACENT AREAS:

- AREAS ADJACENT TO THE SITE INCLUDE THE RIGHT OF WAY OF N. FRANKLIN STREET AND WADES, AND COMMERCIAL ESTABLISHMENTS.

4. OFF-SITE AREAS:

- NO OFF-SITE LAND DISTURBING ACTIVITIES ASSOCIATED WITH THIS PROJECT ARE KNOWN AT THIS TIME. ANY OFF-SITE LAND DISTURBANCE ACTIVITIES ASSOCIATED WITH THIS PROJECT WILL BE COVERED WITH A SEPARATE LAND DISTURBANCE PERMIT OBTAINED BY THE CONTRACTOR.

5. SOILS:

- THE MAJORITY OF THE SOILS ON THE PROJECT ARE CLASSIFIED BY NRCS AS EITHER GROSECLOSE AND POPIMENTO (43%) OR DUFFIELD-EARNEST COMPLEX (37%) SOILS. THESE SOILS HAVE A SLOW INFILTRATION RATE AND A MODERATE INFILTRATION RATE, RESPECTIVELY.

6. CRITICAL EROSION AREAS:

- THERE ARE NO CRITICAL EROSION AREAS ON THIS PROJECT.

7. EROSION AND SEDIMENT CONTROL MEASURES:

- THE FOLLOWING VESCH CONTROLS TO BE USED INCLUDE:
 - SILT FENCE PER STD. 3.05 AND VDOT EC-5
 - STORM DRAIN INLET PROTECTION PER STD. 3.07 AND VDOT EC-6
 - TOPSOILING PER STD. 3.30
 - PERMANENT SEEDING PER STD. 3.32
 - MULCHING PER STD. 3.35
 - BLANKETING AND MATTING (TREATMENT 1) PER STD. 3.36 AND VDOT EC-2

8. PERMANENT STABILIZATION:

- ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WITH NON-ERODIBLE MATERIALS WILL RECEIVE PERMANENT SEEDING. THESE AREAS WILL BE WATERED EVERY DAY BY THE CONTRACTOR FOR THE FIRST TWO WEEKS UNTIL GERMINATION, AND THEN AS NEEDED THEREAFTER. THE CONTRACTOR WILL BE REQUIRED TO ESTABLISH AND MAINTAIN A "GOOD" STAND OF GRASS/VEGETATION BEFORE APPROVAL BY THE TOWN. SEE THE ROADSIDE DEVELOPMENT SHEET FOR DETAILS ON PERMANENT VEGETATION ESTABLISHMENT.

9. STORMWATER MANAGEMENT CONSIDERATIONS:

- VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) WATER QUALITY AND WATER QUANTITY (CHANNEL PROTECTION AND FLOOD PROTECTION) REQUIREMENTS ARE NOT APPLICABLE TO THIS PROJECT BECAUSE THE DISTURBED AREA IS LESS THAN 1 ACRE.

SEQUENCE OF CONSTRUCTION

1. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS AND APPROVALS AND PERFORM ALL REQUIRED NOTIFICATIONS.
2. THE CONTRACTOR SHALL INSTALL SILT FENCE DOWN GRADIENT OF THE WORK AREA IN THE SOUTHEAST QUADRANT OF THE INTERSECTION.
3. THE CONTRACTOR SHALL STRIP TOPSOIL AND REMOVE EXISTING FEATURES TO ALLOW THE INSTALLATION OF NEW IMPROVEMENTS.
4. THE CONTRACTOR SHALL REMOVE EXISTING SIDEWALK, CURB AND GUTTER, AND ASPHALT PAVEMENT TO INSTALL NEW SIDEWALK, CURB RAMP, PEDESTRIAN SIGNAL, CURB AND GUTTER, RETAINING WALL, AND ASSOCIATED ITEMS.
5. THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS UPON COMPLETION OF WORK IN THIS QUADRANT.
6. THE CONTRACTOR SHALL INSTALL SILT FENCE DOWN GRADIENT OF THE WORK AREA IN THE SOUTHWEST QUADRANT OF THE INTERSECTION.
7. THE CONTRACTOR SHALL STRIP TOPSOIL AND REMOVE EXISTING FEATURES TO ALLOW THE INSTALLATION OF NEW IMPROVEMENTS.
8. THE CONTRACTOR SHALL REMOVE EXISTING SIDEWALK, CURB AND GUTTER, AND ASPHALT PAVEMENT TO INSTALL NEW SIDEWALK, CURB RAMP, PEDESTRIAN SIGNAL, CURB AND GUTTER AND ASSOCIATED ITEMS.
9. THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS UPON COMPLETION OF WORK IN THIS QUADRANT.
10. THE CONTRACTOR WILL MAINTAIN ESC MEASURES THROUGHOUT CONSTRUCTION.
11. ALL ESC MEASURES WILL BE CHECKED REGULARLY FOR SEDIMENT BUILD UP THAT WILL PREVENT PROPER DRAINAGE. SEDIMENT REMOVAL WILL BE DISPOSED IN ACCORDANCE WITH PERMIT CONDITIONS.
12. ADDITIONAL ESC MEASURES WILL BE INSTALLED AS REQUIRED BY THE TOWN.
13. UPON STABILIZATION THE CONTRACTOR WILL SCHEDULE A FINAL INSPECTION.
14. REMAINING ESC MEASURES WILL NOT BE REMOVED UNTIL THE LAST STAGE OF CONSTRUCTION.
15. NO OFF-SITE LAND DISTURBING ACTIVITIES ARE SCHEDULED AT THIS TIME. ANY OFF-SITE LAND DISTURBANCE ACTIVITIES WILL REQUIRE A SEPARATE LAND DISTURBING PERMIT BY THE CONTRACTOR OR AN AMENDMENT TO THIS PERMIT.

EROSION & SEDIMENT CONTROL MAINTENANCE NOTES

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY QUALIFIED PERSONNEL AT LEAST ONCE EVERY FIVE (5) BUSINESS DAYS, OR AT LEAST ONCE EVERY TEN (10) BUSINESS DAYS AND NO LATER THAN 48 HOURS FOLLOWING A MEASURABLE STORM EVENT, AND SHALL BE CLEANED AND REPAIRED ACCORDING TO THE FOLLOWING SCHEDULE:

1. EROSION AND SEDIMENT CONTROL WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION AND BUILDUP OR CLOGGING WITH SEDIMENT. CORRECTIVE ACTION WILL BE

TAKEN IMMEDIATELY.

2. FREQUENT INSPECTIONS AND CLEANING OF MUD AND DEBRIS FOUND OUTSIDE OF THE LIMITS OF DISTURBANCE IS REQUIRED, ALONG WITH ANY OTHER REMEDIES REQUIRED BY THE TOWN. ANY MUD, SEDIMENT, DEBRIS, ETC. OBSERVED OUTSIDE THE LIMITS OF DISTURBANCE SHALL IMMEDIATELY BE REMOVED AND DISPOSED OF IN AN APPROPRIATE MANNER.
3. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEED AS NEEDED. TEMPORARY STABILIZATION SHALL BE USED AS REQUIRED BY THE TOWN.
4. ALL TEMPORARY EROSION AND SEDIMENT MEASURES SHALL BE DISPOSED OF WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED AND VEGETATION IS ESTABLISHED.

MINIMUM STANDARDS

1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
 - A. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.
 - B. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.
7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
10. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
14. ALL APPLICABLE FEDERAL, STATE AND LOCAL CHAPTERS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.
15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
 - A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
 - B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
 - C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
 - D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPAKTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
 - E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THIS CHAPTER.
 - F. APPLICABLE SAFETY CHAPTERS SHALL BE COMPLIED WITH.
17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACTING ONTO THE PAVED SURFACE, WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE VESCP AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE VESCP AUTHORITY, TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA. STREAM RESTORATION AND RELOCATION PROJECTS THAT INCORPORATE NATURAL CHANNEL DESIGN CONCEPTS ARE NOT MAN-MADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS.

- A. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.

- B. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:

- (1) THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION; OR

- (2) (A) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS.

- (B) ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS.

- (C) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.

- C. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:

- (1) IMPROVE THE CHANNELS TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL, THE BED, OR BANKS; OR

- (2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES;

- (3) DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL; OR

- (4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE VESCP AUTHORITY TO PREVENT DOWNSTREAM EROSION.

- D. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.

- E. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT CONDITION OF THE SUBJECT PROJECT.

- F. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL FROM THE VESCP OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.

- G. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.

- H. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.

- I. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY.

- J. IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.

- K. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE.

- L. ANY PLAN APPROVED PRIOR TO JULY 1, 2014, THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL SATISFY THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS IF THE PRACTICES ARE DESIGNED TO (I) DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS; (II) DETAIN AND RELEASE OVER A 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24-HOUR STORM; AND (III) REDUCE THE ALLOWABLE PEAK FLOW RATE RESULTING FROM THE 1.5, 2, AND 10-YEAR, 24-HOUR STORMS TO A LEVEL THAT IS LESS THAN OR EQUAL TO THE PEAK FLOW RATE FROM THE SITE ASSUMING IT WAS IN A GOOD FORESTED CONDITION, ACHIEVED THROUGH MULTIPLICATION OF THE FORESTED PEAK FLOW RATE BY A REDUCTION FACTOR THAT IS EQUAL TO THE RUNOFF VOLUME FROM THE SITE WHEN IT WAS IN A GOOD FORESTED CONDITION DIVIDED BY THE RUNOFF VOLUME FROM THE SITE IN ITS PROPOSED CONDITION, AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED PURSUANT TO § 62.1-44.15.54 OR 62.1-44.15.65 OF THE ACT.

- M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15.52 OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (§ 62.1-44.15.24 ET SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES ARE IN ACCORDANCE WITH 9VAC25-870-66 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS.

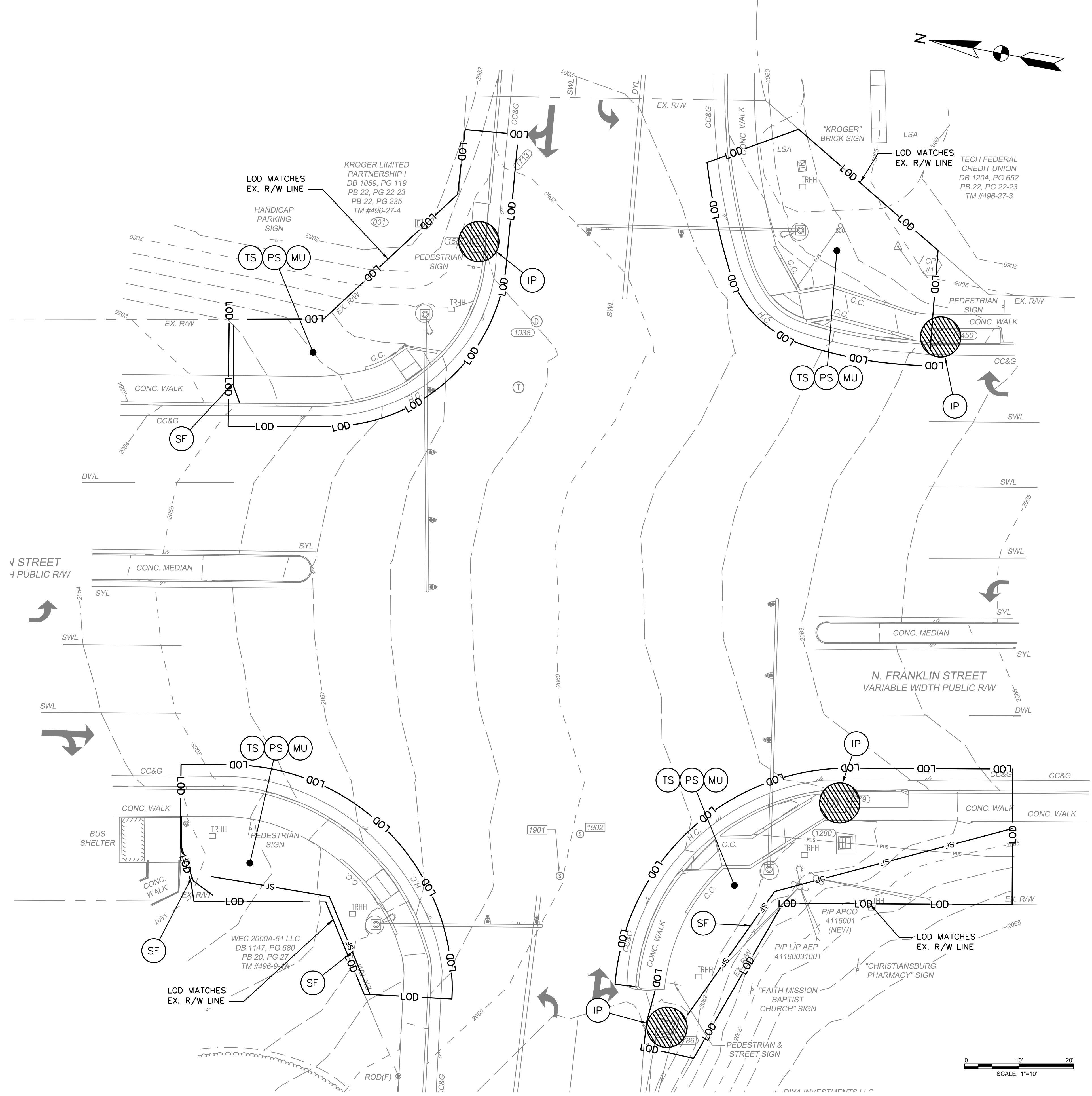
- N. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 9VAC25-870-66 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF MINIMUM STANDARD 19.

FROM THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION, 1992.

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EROSION CONTROL LEGEND				
TITLE	KEY	SYMBOL	STD. & SPEC. NUMBER	QUANTITY
LIMITS OF DISTURBANCE		—LOD—		0.13 ACRES
SILT FENCE	(SF)	— SF —	EC-5*	73 LF
INLET PROTECTION	(IP)	●		4 EA.
TOPSOILING	(TO)		3.30**	AS NEEDED
TEMPORARY SEEDING	(TS)		3.31**	AS NEEDED
PERMANENT SEEDING	(PS)		3.32**	AS NEEDED
MULCHING	(MU)		3.35**	AS NEEDED

*VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARD
**VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK STD. & SPEC.



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CONSTRUCTION



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AND WADES LANE
PEDESTRIAN
IMPROVEMENTS
STATE PROJECT NO.
EN20-154-251
UPC 117997

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100 E. MAIN STREET
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MARK	DATE	DESCRIPTION
60% PLANS (07-10-23)		
PROJECT NO:	21-0598.001	
SCALE:	1'=10'	
DESIGNED BY:	CER	
DRAWN BY:	WEM	
CHECKED BY:	DEC	

SHEET TITLE

EROSION & SEDIMENT
CONTROL PLAN

C7.1

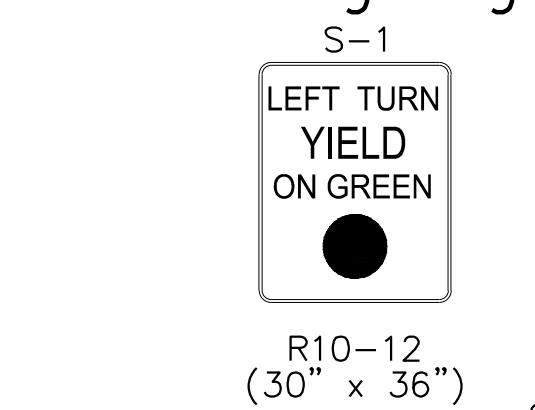
SHEET 10 OF 18

Signal Pole & Controller Legend

(ALL DIMENSIONS ARE TO CENTER OF POLE)

- Ⓐ USE EXISTING CABINET AND FOUNDATION
- Ⓑ PEDESTAL POLE, PA-4, 5'
63.51' RT OF STA. 101+27.57'
EAST OF N. FRANKLIN ST. BASELINE
- Ⓒ EXISTING SIGNAL MASTARM POLE
SIGNAL PLACEMENT: P4, P6
VDC PLACEMENT: 26'
- Ⓓ PEDESTAL POLE, PA-4, 5'
59.61' RT OF STA. 101+23.46'
EAST OF N. FRANKLIN ST. BASELINE
- Ⓔ PEDESTAL POLE, PA-4, 5'
44.41' LT OF STA. 101+23.87'
WEST OF N. FRANKLIN ST. BASELINE
- Ⓕ EXISTING SIGNAL MASTARM POLE
SIGNAL PLACEMENT: P2, P4
VDC PLACEMENT: 32', 45'
- Ⓖ PEDESTAL POLE, PA-4, 5'
55.20' LT OF STA. 101+41.07'
WEST OF N. FRANKLIN ST. BASELINE
- Ⓗ PEDESTAL POLE, PF-2, 8'
48.01' LT OF STA. 102+05.76'
WEST OF N. FRANKLIN ST. BASELINE
- Ⓘ PEDESTAL POLE, PF-2, 8'
44.65' LT OF STA. 102+25.00'
WEST OF N. FRANKLIN ST. BASELINE
- Ⓛ EXISTING SIGNAL MASTARM POLE
VDC PLACEMENT: 21', 46'
- Ⓜ PEDESTAL POLE, PF-2, 8'
63.80' RT OF STA. 101+90.24'
EAST OF N. FRANKLIN ST. BASELINE
- Ⓝ PEDESTAL POLE, PF-2, 8'
46.09' RT OF STA. 102+28.00'
EAST OF N. FRANKLIN ST. BASELINE

Existing Signs



R10-12 (30" x 36")

R10-3eL (9" x 15")

R10-3eR (9" x 15")

QUANTITY - 4 EA.

QUANTITY - 4 EA.

QUANTITY - 1 EA.

QUANTITY - 1 EA.

QUANTITY - 26'

QUANTITY - 4 EA.

QUANTITY - 4 EA.

QUANTITY - 32', 45'

QUANTITY - 4 EA.

QUANTITY - 55.20' LT OF STA. 101+41.07'

WEST OF N. FRANKLIN ST. BASELINE

QUANTITY - 4 EA.

QUANTITY - 4 EA.

QUANTITY - 21', 46'

QUANTITY - 4 EA.

QUANTITY - 63.80' RT OF STA. 101+90.24'

EAST OF N. FRANKLIN ST. BASELINE

QUANTITY - 24'

QUANTITY - 46.09' RT OF STA. 102+28.00'

EAST OF N. FRANKLIN ST. BASELINE

QUANTITY - 2 EA.

QUANTITY - 2

GENERAL NOTES

1. THIS PROJECT IS CLASSIFIED AS A "TYPE A" AND CATEGORY II BASED UPON VDOT TED MEMO 351.3.
2. THE PROJECT IS LOCATED AT THE INTERSECTION OF N FRANKLIN STREET AND WADES LANE IN CHRISTIANSBURG, VIRGINIA. THE PURPOSE OF THIS PROJECT IS TO PROVIDE NEW ADA COMPLIANT RAMPS AS WELL AS NEW CROSS WALKS, PEDESTRIAN PUSHBUTTONS, PEDESTRIAN SIGNAL HEADS, RESURFACING OF THE INTERSECTION, AND ASSOCIATED IMPROVEMENTS WITHIN THE INTERSECTION.
3. THE GENERAL LOCATION OF THE WORK ZONE FOR N FRANKLIN STREET WILL BE 100 FEET ON EACH SIDE OF WADES LANE AND THE WORK ZONE FOR WADES LANE WILL BE 50 FEET ON EACH SIDE OF N FRANKLIN STREET.
4. THE EXISTING SPEED LIMIT FOR N FRANKLIN STREET IS 35 MPH AND THE EXISTING SPEED LIMIT FOR WADES LANE IS 25 MPH. THE EXISTING SPEED LIMIT SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
5. ANY REQUIRED LANE AND/OR ROAD CLOSURES MUST BE APPROVED IN ADVANCE BY THE TOWN ENGINEER. ALL NOTIFICATIONS OF LANE CLOSURES SHALL BE PURSUANT TO SPECIAL PROVISION PROVIDED BY VDOT.
6. VDOT SOUTHWEST REGIONAL (SWRO) TRAFFIC OPERATIONS CENTER (TOC) SHOULD BE NOTIFIED WHEN LANE CLOSURES ARE PLANNED.
7. NORMAL WORKING HOURS ARE FROM 7:30 AM TO 5:30 PM, MONDAY THROUGH SATURDAY, LANE CLOSURES AND STOPPING OF TRAFFIC SHALL ONLY BE ALLOWED ON N FRANKLIN STREET AND WADES LANE BETWEEN THE HOURS OF 9:00 AM TO 3:30 PM. EXCEPTIONS TO THESE LANE CLOSURE REQUIREMENTS REQUIRE PRIOR APPROVAL FROM THE TOWN. THERE WILL BE NO WORK WITHOUT THE PERMISSION OF THE TOWN ON SUNDAYS AND HOLIDAYS, PER SECTION 108 OF THE ROAD AND BRIDGE SPECIFICATIONS.
8. NIGHTTIME CONSTRUCTION, DEFINED BY THE VA WAPM AS 30 MINUTES PRIOR TO SUNSET THROUGH 30 MINUTES AFTER SUNRISE ON THE NEXT DAY, SHALL BE UTILIZED FOR FLAGGER OPERATIONS (TTC 30.2) AS REQUIRED FOR THE DISCONNECTION, CONNECTION, REMOVAL, OR INSTALLATION OF TRAFFIC SIGNAL EQUIPMENT. TEMPORARY LIGHTING SHALL BE PROVIDED WHERE WORKERS ARE ACTIVE TO SUPPLY SUFFICIENT ILLUMINATION TO SAFELY PERFORM THE WORK TASKS AND DESIGNED TO ENSURE THAT GLARE DOES NOT INTERFERE WITH DRIVER VISIBILITY, OR IMPACT VISIBILITY FOR TRUCK DRIVERS, EQUIPMENT OPERATORS, FLAGGERS, OR OTHER WORKERS. IN ADVANCE OF PLANNING OR PERFORMING NIGHTTIME ACTIVITIES, THE CONTRACTOR SHALL COORDINATE WITH JUSTIN ST. CLAIR (JSTCLAIR@CHRISTIANSBURG.ORG) OF THE TOWN OF CHRISTIANSBURG.
9. ALL AREAS EXCAVATED DEEPER THAN 2 INCHES BELOW EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE, AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACKFILLED TO FORM AN APPROXIMATE 6:1 WEDGE DESIRED. 4:1 MINIMUM AGAINST THE PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. ALL COST FOR PLACING, MAINTAINING, AND REMOVING THE 6:1 WEDGE DESIRED, 4:1 MINIMUM SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10. ANY CONTRACT ITEM(S) NOT SPECIFICALLY NOTED IN THE TRANSPORTATION MANAGEMENT PLAN MAY BE SCHEDULED FOR CONSTRUCTION AT THE CONTRACTOR'S OPTIONS, AS APPROVED BY THE TOWN.
11. THE FINAL SURFACE COURSE IS NOT TO BE PLACED UNTIL SUCH TIME THAT CONTINUOUS OPERATIONS ARE POSSIBLE FROM BEGINNING TO END OF THE PROJECT AND PERMANENT PAVEMENT MARKINGS CAN BE PLACED TO PROVIDE A CONTINUOUS FINAL COURSE AS APPLICABLE.
12. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH VDOT'S 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD (REVISION 2), 2011 VIRGINIA SUPPLEMENT TO THE MUTCD (REVISION 1), 2011 VIRGINIA WORK AREA PROTECTION MANUAL (REVISION 2.1), AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.
13. THE CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL AS DIRECTED BY THE TOWN, SHOULD FIELD CONDITIONS WARRANT.
14. THE CONTRACTOR IS RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF ALL TEMPORARY PAVEMENT MARKINGS THAT ARE REQUIRED OR IMPLIED IN THE CONSTRUCTION SEQUENCING. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL DEVICES, SIGNAGE, EQUIPMENT, PERSONNEL, INCLUDING CERTIFIED TRAFFIC-CONTROL PERSONNEL, ETC. TO CONTROL TRAFFIC DURING CONSTRUCTION. ALL TRAFFIC CONTROL SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS, GUIDELINES, POLICIES, AND OBJECTIVES OF THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL, MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND ALL VDOT PERMITS. THE TEMPORARY ERADICATION OF EXISTING PAVEMENT MARKINGS SHALL BE COMPLETED ACCORDING TO THE 2020 VDOT ROAD AND BRIDGE SPECIFICATIONS.
15. AT NO TIME SHALL CONSTRUCTION TAKE PLACE ON BOTH THE RIGHT AND LEFT SIDES OF TRAFFIC UNLESS SPECIFIED BY THE TOWN.
16. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION.
17. CONTRACTOR TO COORDINATE ENTRANCE WORK WITH OWNERS TO MAINTAIN ACCESS.
18. TYPE E TEMPORARY BLACK 6" PAVEMENT MARKINGS SHALL BE USED FOR TEMPORARY ERADICATION OF EXISTING PAVEMENT MARKINGS AND SHALL BE REPLACED EVERY 120 DAYS OR AS NEEDED DUE TO DAMAGE IN ACCORDANCE WITH THE SPECIFICATIONS. THIS ITEM WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT COSTS SHALL BE INCLUDED IN THE BID ITEM "NS MAINTENANCE OF TRAFFIC".

TRANSPORTATION OPERATION PLAN

1. THE CONTRACTOR SHALL GIVE THE TOWN A MINIMUM OF 48-HOUR NOTICE WHEN A LANE OR ROAD CLOSURE IS PLANNED.
2. ANY TRAFFIC INCIDENT THAT OCCURS DURING THE LIFE OF THIS PROJECT WILL BE DISCUSSED BY THE CONTRACTOR, AND THE TOWN PROJECT PERSONNEL TO DETERMINE WHETHER ANY CHANGES NEED TO BE MADE TO THE TRAFFIC CONTROL OF THE PROJECT.

TEMPORARY TRAFFIC CONTROL (TTC) PLAN

1. LANE CLOSURES ARE ANTICIPATED FOR THIS PROJECT AND WILL BE IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION – REVISION 2.1. THE FOLLOWING TEMPORARY TRAFFIC MEASURES SHALL BE USED:
 - 1.1. TYPICAL TRAFFIC CONTROL, STATIONARY OPERATION ON A SHOULDER (FIGURE TTC-4.2)
 - 1.2. TYPICAL TRAFFIC CONTROL, SHOULDER OPERATION WITH MINOR ENCROACHMENT (FIGURE TTC-5.2)
 - 1.3. TYPICAL TRAFFIC CONTROL, OUTSIDE LANE CLOSURE OPERATION ON A FOUR-LANE ROADWAY (FIGURE TTC-16.2)
 - 1.4. TYPICAL TRAFFIC CONTROL, INSIDE LANE CLOSURE OPERATION ON A FOUR-LANE ROADWAY (FIGURE TTC-17.2)
 - 1.5. TYPICAL TRAFFIC CONTROL, LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS (TTC-23.2)
 - 1.6. TYPICAL TRAFFIC CONTROL, LANE CLOSURE OPERATION – FAR SIDE OF AN INTERSECTION (TTC-27.2)
 - 1.7. TYPICAL TRAFFIC CONTROL, TURN LANE CLOSURE OPERATION (FIGURE TTC-29.2)
 - 1.8. TYPICAL TRAFFIC CONTROL, FLAGGING OPERATION AT SIGNALIZED INTERSECTION (FIGURE TTC 30.2)
 - 1.9. TYPICAL TRAFFIC CONTROL, SIDEWALK CLOSURE AND BYPASS SIDEWALK OPERATION (FIGURE TTC-35.1)
 - 1.10. TYPICAL TRAFFIC CONTROL, SIGNING FOR PROJECT LIMITS (FIGURE TTC-53.0)
 - 1.11. TYPICAL TRAFFIC CONTROL, ERADICATION OF PAVEMENT MARKINGS IN A WORK ZONE (FIGURE TTC-55.1)
2. NEGATIVE IMPACTS TO THE TRAVELING PUBLIC SHALL BE MINIMIZED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ONE INTERMEDIATE LEVEL AND ONE BASIC LEVEL DESIGNATED WORK ZONE SAFETY COORDINATOR TO DEVELOP AND MONITOR ALL TRAFFIC CONTROL DEVICES AND ENSURE COMPLIANCE WITH THE CURRENT EDITION OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL (VWAPM).
4. ALL WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE PROMPTLY REMOVED UPON THE COMPLETION OF WORK, AS DIRECTED BY THE TOWN ENGINEER.

PUBLIC COMMUNICATION PLAN

1. THE TOWN WILL HANDLE THE PUBLIC COMMUNICATION PLAN.
2. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) WILL BE USED TO NOTIFY THE TRAVELING PUBLIC OF ANY SUCH MAJOR TRAFFIC CHANGES 72 HOURS IN ADVANCE OF THE CHANGE.

SEQUENCE OF CONSTRUCTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PHASING OF WORK ON THIS PROJECT. TRAFFIC SHALL BE MAINTAINED ACCORDING TO THE TTC FIGURES AS PRESCRIBED IN THIS PLAN THROUGH THE USE OF GROUP II CHANNELIZING DEVICES AND PROPER SIGNAGE. THE CONTRACTOR SHALL MINIMIZE LANE CLOSURES TO THE GREATEST EXTENT PRACTICAL.

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N. FRANKLIN STREET
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PEDESTRIAN
IMPROVEMENTS
STATE PROJECT NO.

EN20-154-251

UPC 117997

TOWN OF CHRISTIANSBURG

100 E. MAIN STREET

CHRISTIANSBURG, VA 24073

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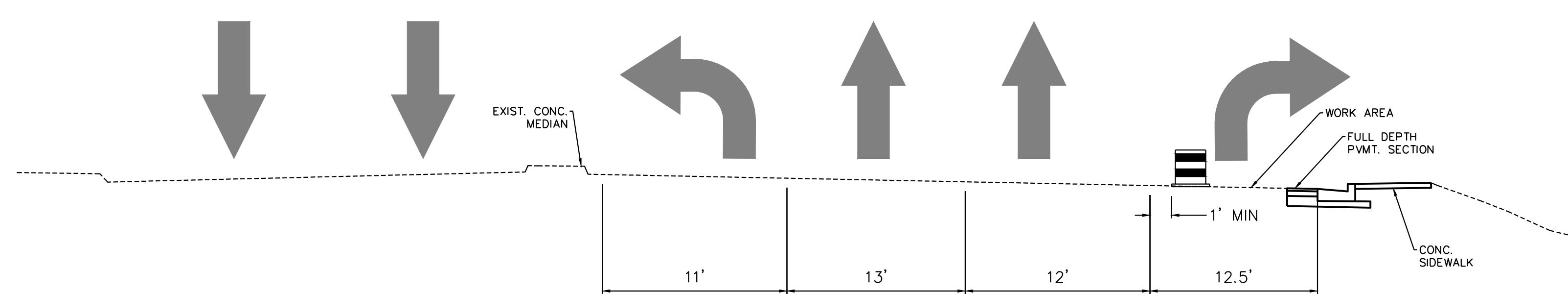
MARK	DATE	DESCRIPTION
60% PLANS (07-10-23)		
PROJECT NO:	21-0598.001	
SCALE:	N.T.S.	
DESIGNED BY:	CER	
DRAWN BY:	WEM	
CHECKED BY:	DEC	

SHEET TITLE		
TRAFFIC MANAGEMENT PLAN NOTES		

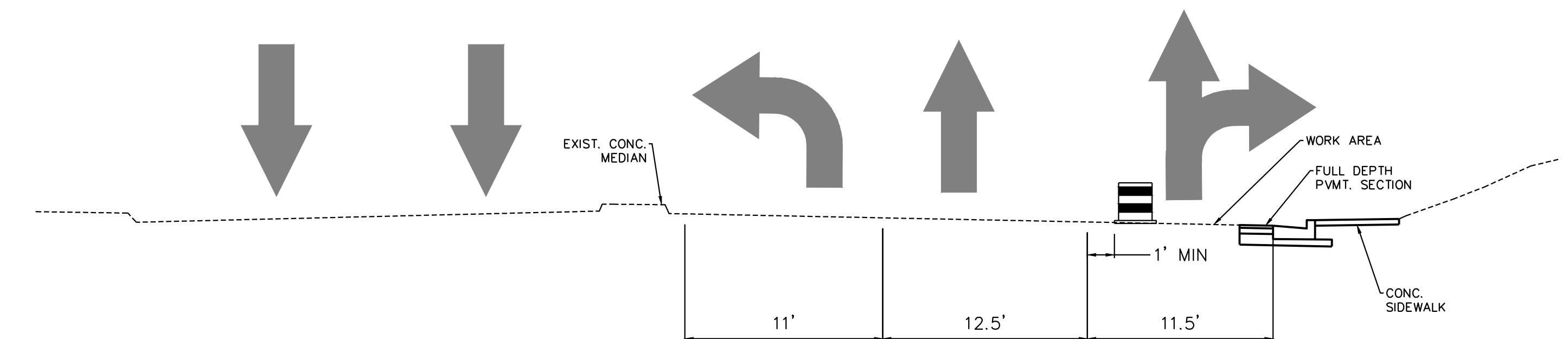
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SHEET 12 OF 18

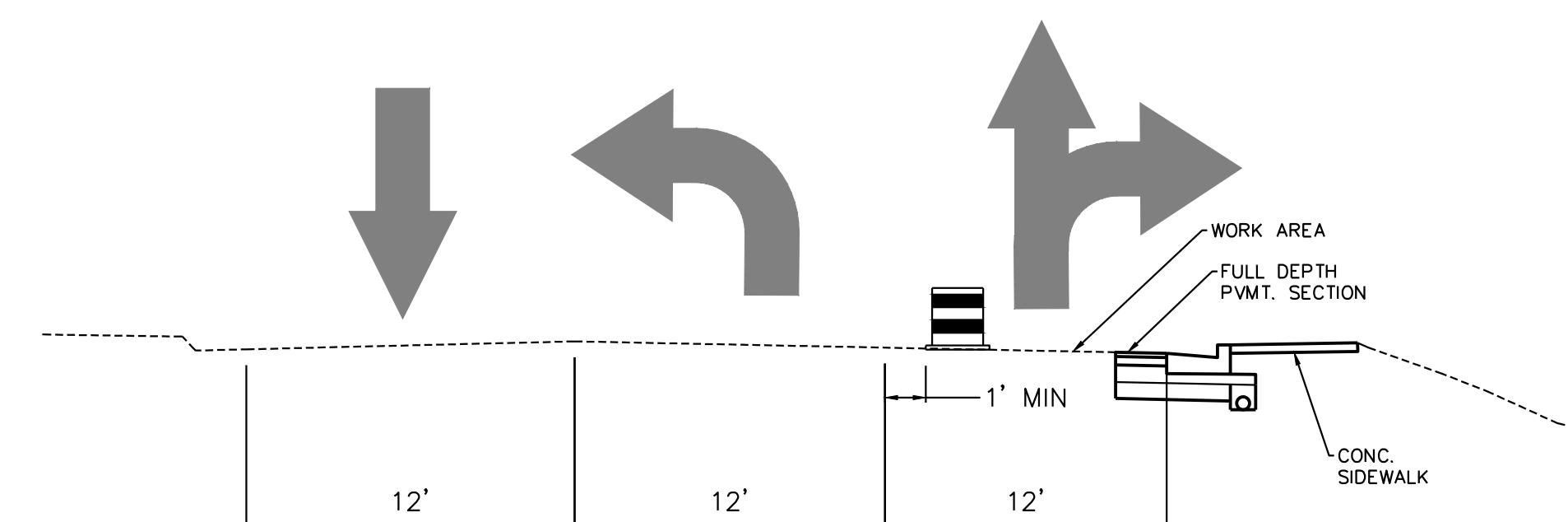
NB N FRANKLIN ST



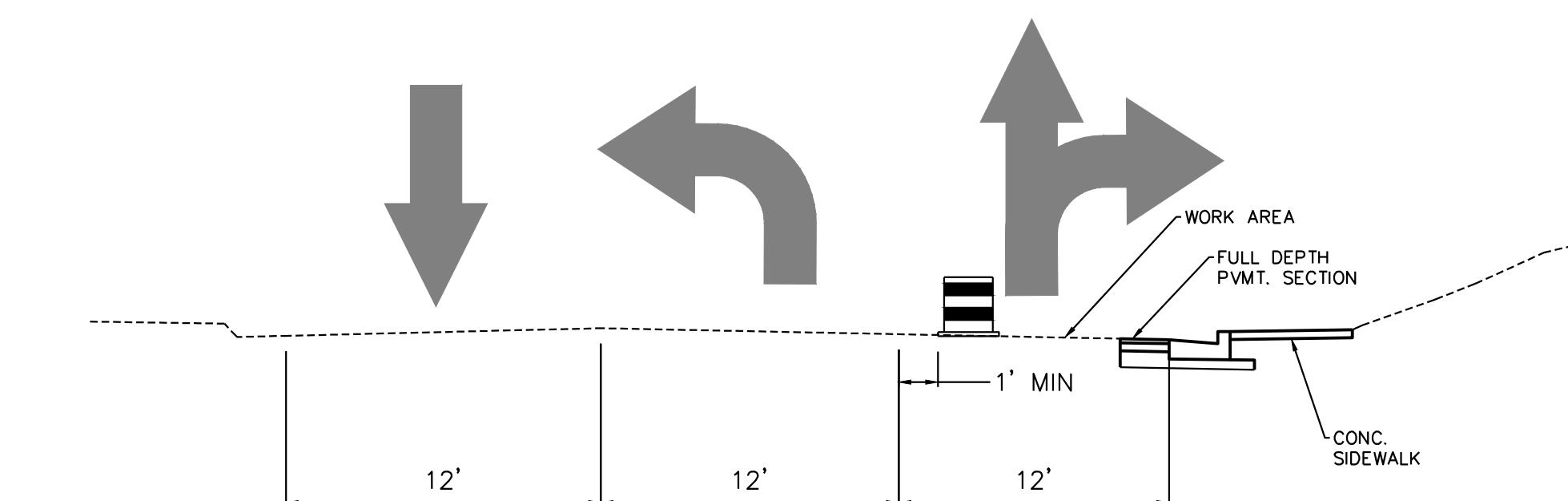
SB N FRANKLIN ST



WB WADES LANE



EB WADES LANE



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MARK DATE DESCRIPTION

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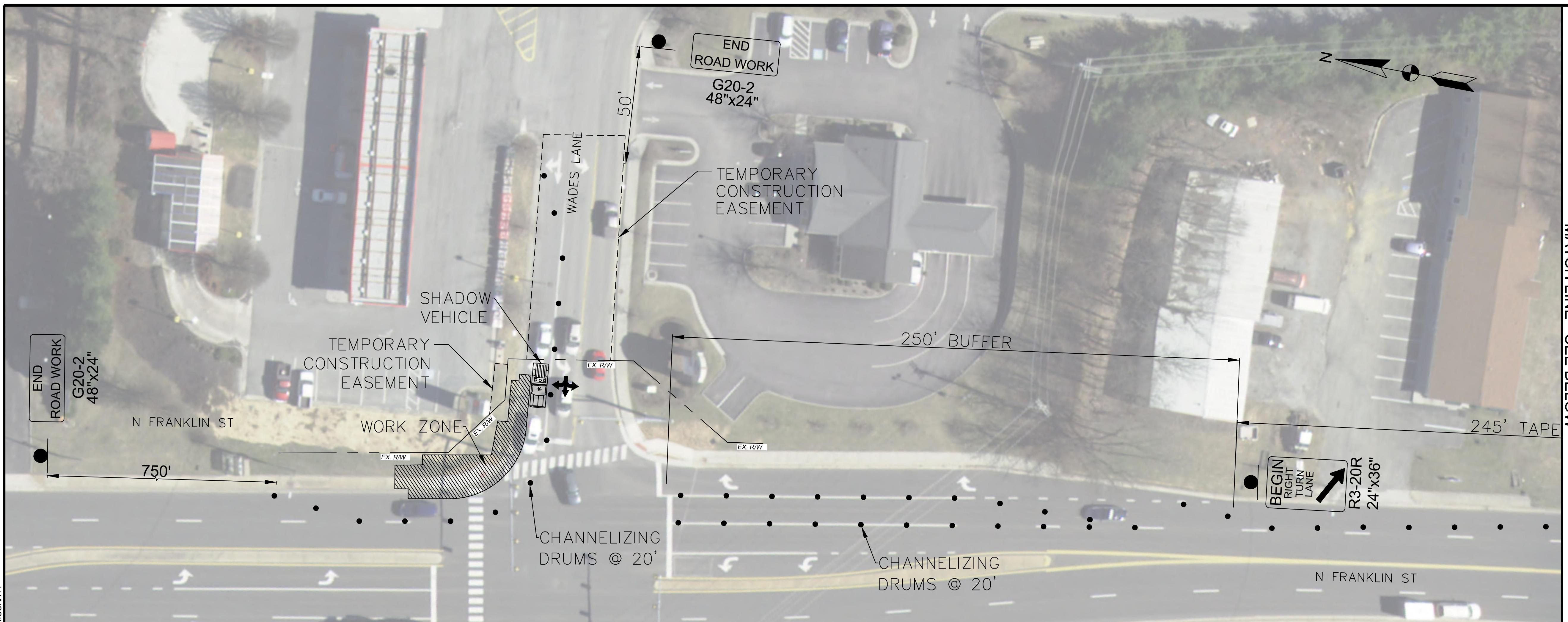
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SHEET TITLE

TRAFFIC MANAGEMENT
PLAN SECTIONS

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SHEET 13 OF 18



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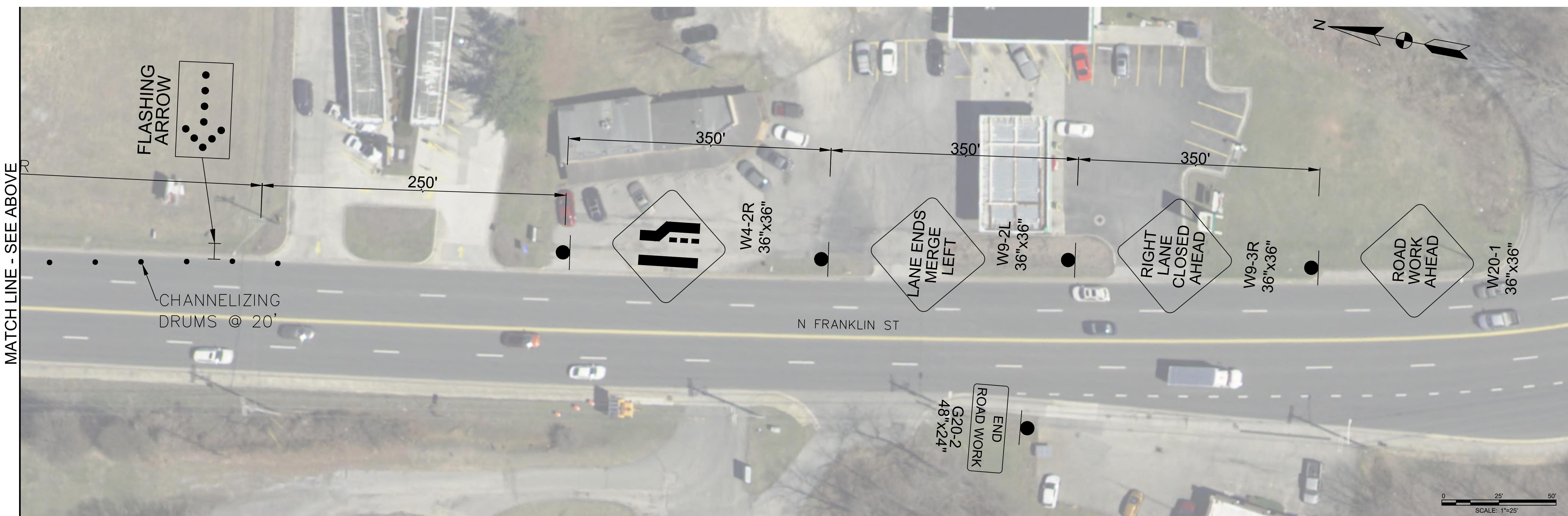
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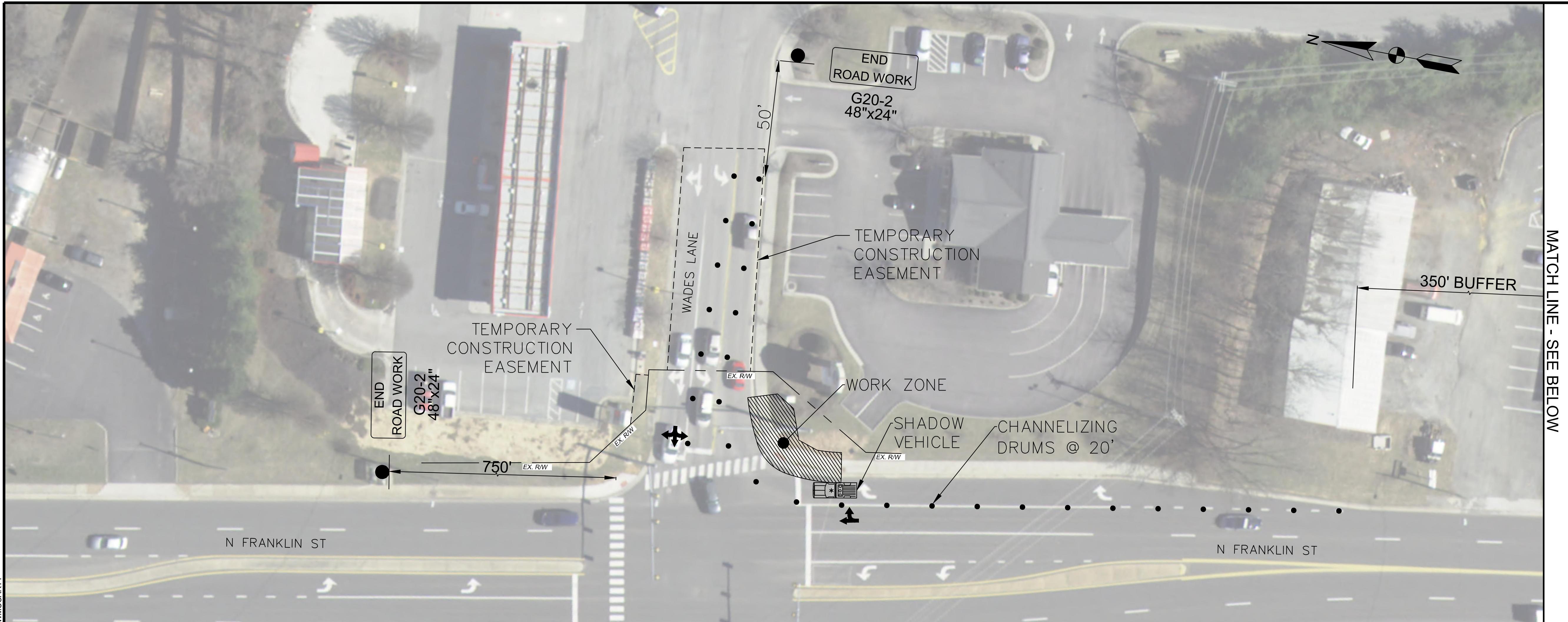
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MARK	DATE	DESCRIPTION
60% PLANS (07-10-23)		
PROJECT NO:	21-0598.001	
SCALE:	1"=25'	
DESIGNED BY:	CER	
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CHECKED BY:	DEC	
SHEET TITLE		
TRAFFIC MANAGEMENT PLAN NE CORNER		
C9.2		
SHEET	14	OF 18



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TRAFFIC MANAGEMENT PLAN SE CORNER		
C9.3		
SHEET	15	OF 18

