ADDENDUM NO. 1

Arlington County Invitation to Bid No. 23-DES-ITBPW-309 N. Glebe Rd. ITS Project is amended as follows:

Following updates are made to Sheet C-0002, "Signal Notes" section of Construction Drawings for N. Glebe Rd. ITS Improvements Project

Delete A.6. and replace with following notes:

- 6. FOUNDATIONS FOR SIGNAL POLES AND PEDESTAL POLES SHALL BE FINISHED FLUSH WITH FINAL GRADE. WHEN SIGNAL POLE OR PEDESTAL POLE IS INSTALLED IN THE SIDEWALK, THE ENTIRE SIDEWALK PANEL SHALL BE REPLACED AROUND THE FOUNDATION.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING POLE FOUNDATION DESIGNS FOR ANY MAST ARM POLES. THE CONTRACTOR SHALL SUBMIT REQUIRED STRUCTURAL DRAWINGS AND CALCULATIONS FOR REVIEW PRIOR TO STARTING WORK FOR THE FOUNDATIONS.

Delete B.1. and replace with following notes:

1. NEW CONTROLLER CABINETS SHALL BE ATC PER LATEST TRAFFIC SIGNAL STANDARDS & SPECIFICATIONS.

Delete B.2. and replace with following notes:

CONTROLLER SHALL BE INTELIGHT X-N AND SHALL BE INSTALLED AND SET AS FOLLOWS:
 2.1 TO REST IN PHASE 2 & 6 GREEN INTERVAL

2.2 TO START/RESTART IN PHASE 2 & 6 YELLOW CHANGE INTERVAL

Add the following note to C:

- 3. ALL SIGNAL HEADS SHALL BE INSTALLED WITH RETROREFLECTIVE BACKPLATES PER VDOT STANDARDS AND SPECIFICATIONS.
- 4. ALL SIGNAL HEADS SHALL BE YELLOW IN COLOR.

Delete D.1. and replace with following notes:

 ALL NEW PEDESTRIAN PUSH BUTTON STATIONS SHALL CONFORM TO ARLINGTON COUNTY'S SPECIFICATIONS FOR ACCESSIBLE SIGNAL DESIGN AND SHALL USE POLARA VIBRO-TACTILE/AUDIO PUSH BUTTON ASSEMBLIES UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL PROVIDE EXTENDER BRACKETS IF NEEDED TO MAKE PUSHBUTTONS ADA ACCESSIBLE. THE PUSHBUTTON ASSEMBLY SHALL CONTAIN A MOUNTING BRACKET TO ALLOW THE R10-3E SIGN TO BE MOUNTED DIRECTLY TO THE PUSHBUTTON.

Delete D.3. and replace with following notes:

3. NEW OVERHEAD VIDEO DETECTION SHALL BE ECONOLITE VISION WITH EXTENDED WARRANTY AND SHALL BE INSTALLED IN ACCORDANCE WITH LATEST TRAFFIC SIGNAL STANDARDS & SPECIFICATIONS.

Add the following to D:

5. EVP TO BE MOUNTED ON VEHICLE HEAD MOUNTING BRACKET OR AS APPROVED BY THE ENGINEER IN THE FIELD. EVP SHALL INCLUDE CONFIRMATION LIGHTS.

Add the following:

I. INSPECTIONS

- 1. THE CONTRACTOR SHALL CONTACT THE COUNTY CONSTRUCTION MANAGER FOR INSPECTIONS THROUGHOUT CONSTRUCTION AS REQUIRED BY THE CONSTRUCTION MANAGER.
- 2. THE COUNTY SHALL VERIFY POLE LOCATIONS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOTIFY MR. CHRISTOPHER MALTBY, 703-228-6513 TO SCHEDULE INSPECTION PRIOR TO EXCAVATION, AND AGAIN PRIOR TO POURING CONCRETE. STAKEOUT IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
- 3. THE CONTRACTOR SHALL CONTACT THE COUNTY CONSTRUCTION MANAGER WITHIN 7 BUSINESS DAYS OF SIGNAL ACTIVATION. ALL POWER AND COMMUNICATIONS SHALL BE IN OPERATION AT THE TIME OF ACTIVATION UNLESS APPROVED BY THE COUNTY CONSTRUCTION MANAGER.

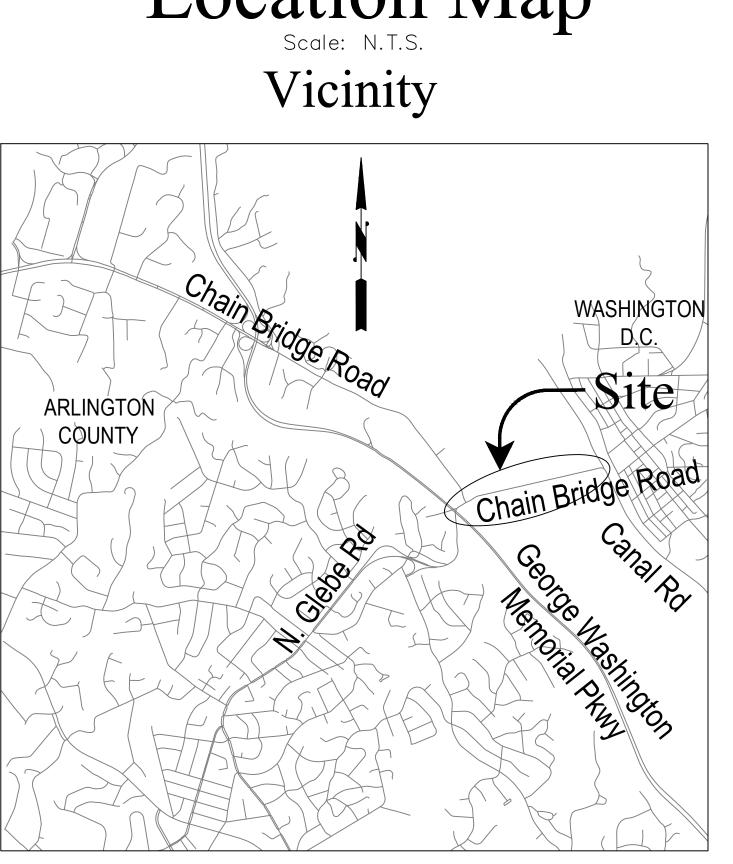


DEPARTMENT OF **ENVIRONMENTAL SERVICES**

Signal Systems and ITS Traffic Engineering and Operations Bureau 2100 Clarendon Boulevard, Suite 900, Arlington, VA 22201 Phone: 703.228.3629 Fax: 703.228.3606 www.arlingtonva.us

Construction Drawings For: N. Glebe Road Intelligent Transportation Systems (ITS) Improvements Project Intersection of: N. Glebe Road and Chain Bridge Road

THIS PROJECT CONSISTS OF TRAFFIC SIGNAL MODIFICATIONS AND INTELLIGENT TRANSPORTATION SYSTEMS (ITS) IMPROVEMENTS AT THE INTERSECTION OF NORTH GLEBE ROAD AND CHAIN BRIDGE ROAD. THE SIGNAL IMPROVEMENTS INCLUDE REMOVING ALL EXISTING EQUIPMENT AND REPLACING WITH NEW EQUIPMENT AND ACCESSIBLE PEDESTRIAN SIGNAL DEVICES. THE ITS IMPROVEMENTS INVOLVES THE INSTALLATION OF LANE CONTROL SIGNALS.







N GLEB

AADT (201 AADT (DE V DESIGN

CALL 48 HOURS **BEFORE YOU DIG** IT'S THE LAW! DIAL 811

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005	GENERAL NOTES AND DETAILS
007	SIGN DETAILS
	EXISTING CONDITIONS PLAN AND PROFILE
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	PROPOSED PLAN & PROFILE, GEOMETRY AND RAMP DETAIL
	PAVEMENT MARKING AND SIGNING PLAN
	TRAFFIC SIGNAL DESIGN PLAN
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	COMMUNICATION AND ELECTRICAL BLOCK DIAGRAM
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	ITS DESIGN PLAN - DC SIDE
701	MAINTENANCE OF TRAFFIC PLAN
IT A	STREETLIGHT PHOTOMETRICS

AUTOTURN - N GLEBE ROAD AND CHAIN BRIDGE ROAD

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	

CHAIN BRIDGE ROAD - PRINCIPAL ARTERIAL - SPEED LIMIT 25/30 MPH

EBE ROAD - PRINCIPAL ARTERIAL - SPEED LIMIT 25 MPH					
	CHAIN BRIDGE ROAD (RTE 123)	N GLEBE ROAD (RTE 120)			
017)	12000	12000			
DESIGN YR)	N/A	N/A			
GN (mph)	25/30	25			

I CERTIFY THAT THIS PROJECT WAS BUILT IN SUBSTANTIAL CONFORMANCE WITH
THIS PLAN, UNLESS DULY NOTED IN THE ABOVE REVISION BLOCK.

PROJECT MANAGER

DATE

CONSTRUCTION MANAGER

DATE

SCALE:

ARLINGTON COUNTY, VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

COVER SHEET N. GLEBE ROAD ITS IMPROVEMENTS

FINAL DESIGN PLANS

SHEET:



HOR.	N/A	VERT.	N/A

0000

T

ARLINGTON VIRGINIA

DEPARTMENT OF

ENVIRONMENTAL SERVICES

Signal Systems and ITS

Traffic Engineering and Operations Bureau

2100 Clarendon Boulevard, Suite 900

Arlington, VA 22201

Phone: 703.228.3629

Fax: 703.228.3606

Kimley Worn

and Associates, Inc. © 2018 KIMLEY-HORN AND ASSOCIATES, INC. 11400 Commerce Park Drive, Suite 400 Reston Virginio 20191 Phone: 703-674-1300 Fax: 703-674-1350

09/18/20

FINAL DÉSIGN P

DIRECTOR OF TRANSPORTATION

Revisions

Designed:

Drawn:

Checked:

10/04/201

KF

JW

GG

Miss Utility Transmittal #:

Filename: 0000 COVER SHEET.dwg

Path: K:\NVA_TPTO\110010100 - Glebe Road ITS Design\CAD\PlanSheets

Plotted: September 18, 2019

Plotted by: Kelley.Frank

Kimley-Horn

Seal

Approvals

Existing	Symbols Propose	ed
(1001)	Storm Str. #	< ST1 >
	Catch Basin	
Ø	Sanitary Manhole	٢
(2001)	Sanitary Str. #	SA1
-ф-	Fire Hydrant	+
\bigtriangleup	Watermain Reducer	
8	Water — Valve	•
0	Blowoff Valve	٠
	Water — Cross	÷
	Water — Tee	Ē
Φ	Water — Typical Bend Water Meter	•
Ψ	Water Meter	1
0	Water — Manhole Cover	0
8	Siamese Connection	¥
С	CableTV Pedestal	
E	Electrical Box	
	Telephone Pedestal	
1		1
- \$ 0	Cobrahead Light	- — —•
-	Carlyle Light	
4	Ground Light	
\$	Light Pole	*
Ċ	Utility Pole	۵
\succ	Guy Wire	~
۲	Utility Cover	
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G	Gas Line Marker	
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-0-	Sign	Ŧ
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Ø	Traffic Pedestrian Pole	۵
\bowtie	Traffic Control Box	
mie	Traffic Electrical Box	
	Traffic Junction Box	۵
S	Traffic Service Meter	S
*	Coniferous Tree	⊯
	Deciduous Tree	\odot
举	Bush/Hedge/Shrub	茶
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•	Monument	
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) The second se	Iron Pipe Found	

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Building –					
Cable TV -	CATV	CATV	CATV		
Center Line -					
Concrete					
			250		— 250 —
Curb					
Electric (Underground) -	UGE				
Fence – Fiber Optic –	xxx	xxx	xxx	xxxx -	xx
Guardrail	10	10	10		
o" o	2" C	2" C	2" G		
7" 0					
o" o			6" G		
o" o			8" G		
Gas _			GAS		
Limits Of Clearing					
Overhead Wires _		••			
Property Line _					
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12"Sanitary _		— 12" S —			
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Sanitary House Con		SHC			
Sidewalk _					
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12" Water Water Water House Con Lane Marking	₩ — WHC —	12" W WHC	₩ whc		
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12" Water Water Water House Con Lane Marking Tree Line (PVC (Street Lights)	₩ — whc —	12" W WHC	₩ whc		
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12" Water Water House Con Lane Marking Tree Line (PVC (Street Lights) Asphalt _ Mill & Over	₩ — whc —	12" W WHC	₩ whc		
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C-2R Curb Transition

🤬 🛛 Rebar Rod Found

🥵 P.K. Nail Found

Traverse

North Arrow

 \triangle

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250 ————

_____x _____x _____x _____

STORM SEWER AS-BUILT TABLE

11 12

#22324 TOP = 50.55 18" RCP INV. OUT (22326) = 48.26

#22326 TOP = 52.83 18" RCP INV. IN (22324) = 47.57

#22327 TOP = 53.76 18" RCP INV. IN (22324) = 44.35 18" RCP INV. OUT = 44.03

#22328

TOP = 50.67 STRUCTURE IS FULL OF DEBRIS/DIRT

#22330 TOP GRATE = 77.78 STRUCTURE IS FULL OF DEBRIS/DIRT

			A R L I N G T O N VIRGI NIA
			DEPARTMENT OF ENVIRONMENTAL SERVICES Signal Systems and ITS Traffic Engineering and Operations Bureau 2100 Clarendon Boulevard, Suite 900 Arlington, VA 22201 Phone: 703.228.3629
Survey Control Table:			Fax: 703.228.3606 Kimley >>> Horn Kimley-Horn and Associates, Inc. © 2018 Killey-HORN AND ASSOCIATES, INC. 11400 Commerce Park Drive, Suite 400 Reston Virginio 20191 Phone: 703-674-1300
107024430.1911876200.2455.02117024386.4411876203.6956.20127024438.9011876298.4051.34137024466.2311876334.8750.29147024379.0411876091.9963.66157024411.1211876101.0661.74167024332.0411876014.6070.98177024265.9611875924.9380.12187024498.4511876076.8266.07197024242.2911875861.1087.64207024197.3711875887.3786.821007024592.2611876611.9162.231017024541.5311876387.2454.32	FLY 11 DH FLY 12 SN FLY 13 SN FLY 14 PK FLY 15 PK FLY 16 PK FLY 17 PK FLY 18 PK FLY 19 PK FLY 20 PK TRAV 100 PK		For: 703-674-1350 Seal GEOFF D. GIFFIN Lic. No. 039584 MONAL FINAL DESIGN PLANS Approvals Date
			Approvals Date DESIGN TEAM SUPERVISOR John Juhh 10/9/19 TRAFFIC SIGNALS MANAGER
			CHIEF TERO BUREAU DIRECTOR OF TRANSPORTATION
			Revisions Date
			Designed: KF Drawn: KF Checked: GG Miss Utility Transmittal #:
			Filename: 0001 LEGEND AND SURVEY DATA Path: K:\NVA_TPTO\110010100 - Glebe Road ITS Design\CAD\PlanSheets Plotted: September 18, 2019 Plotted by: Kelley.Frank
	ARLINGTON DEPARTMENT OF F	N COUNTY, VI ENVIRONMEN	
	LEGEND A N. GLEBE ROA	ND SURVEY I D ITS IMPROV	
	CONSTRUC	CTION DOCUN	ИENTS
SCALE:	HOR. N/A VERT. N/A	SHEET:	0001

General Signal Notes

1. ALL WORK FOR TRAFFIC SIGNALS, TRAFFIC SIGNS, AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE LATEST EDITION OF THE ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS, 2016 VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, 2016 VDOT ROAD AND BRIDGE STANDARDS, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PRODUCTION MANUAL, AND SPECIAL PROVISIONS IN EFFECT AT THE TIME OF ADVERTISEMENT.

2. FIVE WORKING DAYS PRIOR TO COMMENCING SIGNAL INSTALLATION/MODIFICATION WORK AT ANY LOCATION IN ARLINGTON COUNTY, VIRGINIA, SIGNAL CONTRACTORS MUST NOTIFY THE COUNTY ENGINEER IN WRITING WITH THE NAME, DAYTIME PHONE NUMBER, AND EMERGENCY PHONE NUMBERS OF THE CONTRACTOR. THIS NOTIFICATION IS TO INCLUDE LOCATION, ROUTE NUMBERS, TYPE, AND DETAILS OF CONSTRUCTION AND SCHEDULE OF WORK.

3. THE TRAFFIC SIGNAL CONSTRUCTION SHALL NOT BEGIN WITHOUT PRIOR NOTIFICATION AND APPROVAL FROM ARLINGTON COUNTY.

4. THE COUNTY ENGINEER, PRIOR TO CONSTRUCTION, SHALL VERIFY POLE(S) AND CONTROLLER CABINET LOCATIONS.

5. ALL CATALOG CUTS, POLE CALCULATIONS, FOUNDATION DESIGNS, SHOP DRAWINGS, ETC., SHALL BE SUBMITTED TO, AND APPROVED BY, ARLINGTON COUNTY PRIOR TO CONSTRUCTION.

6. OPERATION OF THE SIGNALIZED INTERSECTION IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE TRAFFIC SIGNAL IS ACCEPTED BY ARLINGTON COUNTY.

7. ANY NOTES NOT MENTIONED IN THE NOTES SECTION OF THIS SIGNAL PLAN WILL REVERT TO THE ARLINGTON COUNTY STANDARDS.

8. CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL COMMUNICATION THROUGHOUT THE PROJECT. DUE TO THE CRITICAL LOCATION OF THIS INTERSECTION, THE CONTRACTOR SHALL VERIFY WORKING COMMUNICATIONS TO NEW TRAFFIC SIGNAL CABINET PRIOR TO DEACTIVATION OF THE EXISTING CABINET.

9. ALL NEW CONTROLLER CABINETS MUST BE FURNISHED WITH A BACKUP POWER BATTERY

A. POLES AND FOUNDATIONS

- MAST ARM LENGTH IS TO BE AS SHOWN ON PLAN AND ALL MAST ARMS ARE TO BE FIELD 1. DRILLED ONLY.
- MAST ARM POLES SHALL BE DESIGNED TO THE PROPER HEIGHT TO ACCOMMODATE A STREET LIGHT LUMINAIRE AND INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS.
- 3 MAST ARM POLE FOUNDATIONS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS AND SPECIFICATIONS. ALL POLES SHALL HAVE A 6-BOLT PATTERN.
- THE COUNTY SHALL VERIFY POLE LOCATIONS PRIOR TO EXCAVATION. THE CONTRACTOR 4. SHALL NOTIFY MR. SAROSH SALEEM, 703-228-3402 TO SCHEDULE INSPECTION. STAKEOUT IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
- AT THE COUNTY'S REQUEST, THE CONTRACTOR SHALL DIG TEST PITS TO VERIFY THAT 5. SIGNAL POLE FOUNDATIONS WILL NOT CONFLICT WITH UNDERGROUND UTILITIES AND THAT FOUNDATIONS WILL FIT WITHIN EXISTING RIGHT-OF-WAY
- SIGNAL POLES AND MAST ARMS SHALL BE NON-ORNAMENTAL. COBRA LIGHTING SHALL 6. BE LED TYPE - RFL-145W64LED4K-T-R2M-UNIV-DMG-PH8-RCD7-[USA-003]-BK.

B. CONTROLLER AND FOUNDATION

- NEW CONTROLLER CABINETS SHALL BE TS2, P TYPE WITH BATTERY BACKUP PER ARLINGTON COUNTY REQUIREMENTS. ADD GENERATOR AND POLICE PANEL WITH RJ-45 SWITCH PER THE ARLINGTON COUNTY STANDARDS.
- CONTROLLER SHALL BE INTELIGHT X-3 WITH LATEST FIRMWARE AND SHALL BE INSTALLED AND SET AS FOLLOWS: 2.1 TO REST IN PHASE 2 & 6 GREEN INTERVAL
- 2.2 TO START/RESTART IN PHASE 2 & 6 YELLOW CHANGE INTERVAL
- THE CONTROLLER CABINET AND FOUNDATION SHALL BE INSTALLED IN ACCORDANCE 3 WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS 66-01. 66-02, AND 70-01.
- 4. THE COUNTY WILL PROVIDE SIGNAL TIMINGS TO THE CONTRACTOR FOR THE CONTROLLER WHEN THE INTERSECTION IS TOTALLY PREPARED FOR OPERATION. THE CONTRACTOR SHALL NOTIFY THE COUNTY IN WRITING 10 DAYS IN ADVANCE OF REQUIRING FINAL TIMINGS.

C. TRAFFIC SIGNAL HEADS

- 1. ALL NEW VEHICULAR SIGNAL SECTIONS SHALL BE 12 INCHES IN DIAMETER CAST ALUMINUM WITH LED DISPLAYS.
- 2. PEDESTRIAN SIGNAL HEAD SECTIONS SHALL BE CAST ALUMINUM WITH LED DISPLAYS (COUNTDOWN).

10. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC, AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY." PRIVATE UTILITY LATERALS ARE NOT LOCATED. CONTRACTOR SHALL VERIFY THE LOCATION OF UTILITY LATERALS AND IS RESPONSIBLE FOR ANY DAMAGE TO PRIVATE UTILITY LATERALS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, SIDEWALK, ETC. THAT ARE DAMAGED DURING CONSTRUCTION .

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE SIGNING, DELINEATION, PAVEMENT MARKINGS AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY TO PERFORM THE WORK IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY REMOVE ALL TEMPORARY DEVICES.

13. THE CONTRACTOR SHALL SUBMIT "AS-BUILT" DRAWINGS TO ARLINGTON COUNTY UPON JOB COMPLETION AND FINAL INSPECTION .

14. EXISTING CONTROLLER AND CABINETS SPECIFIED TO BE REMOVED SHALL BE **RETURNED TO ARLINGTON COUNTY.**

FINAL LOCATIONS SHALL BE FIELD LOCATED.

D. DETECTORS

- SPECIFIED.

E. CONDUIT, CONDUCTORS, AND ELECTRICAL

- 61-03, AND 61-04.
- COMPANY FOR CONNECTION.
- ENGINEER.
- OR BUSHING.

- CABLES.
- WITH COUNTY PRIOR TO INSTALLATION.

15. CCTV LOCATIONS AND QUANTITIES ARE FOR PLANNING PURPOSES ONLY. THE

16. CONTRACTOR SHALLL COORDINATE WITH UTILITY COMPANIES ON ADJUSTMENT OF OVERHEAD CABLES TO INSTALL MAST ARM SIGNAL POLES.

Signal Notes

1. ALL NEW PEDESTRIAN PUSH BUTTON STATIONS SHALL CONFORM TO ARLINGTON COUNTY'S SPECIFICATIONS FOR ACCESSIBLE SIGNAL DESIGN AND SHALL USE POLARA NAVIGATOR VIBRO-TACTILE/AUDIO PUSH BUTTON ASSEMBLIES UNLESS OTHERWISE

2. NEW PASSIVE PEDESTRIAN DETECTION SHALL CONFORM TO SPECIFICATIONS INCLUDED IN CONTRACT DOCUMENT FOR THIS PROJECT.

3. NEW OVERHEAD VIDEO DETECTION SHALL BE FLIR CAMERAS AND SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY REQUIREMENTS.

4. EMERGENCY VEHICLE PRE-EMPTION (EVP) EQUIPMENT (GTT MODEL M711 OR M721). OR APPROVED SUBSTITUTE, SHALL BE INSTALLED COMPLETE WITH DISCRIMINATOR CARDS, WIRING, ETC. IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS.

1. ALL JUNCTION BOXES SHALL HAVE THE WORDS "ARLINGTON COUNTY TRANSPORTATION" CAST IN THE LID. ALL JUNCTION BOXES SHALL BE INSTALLED PER STANDARDS 61-01, 61-02,

METER PEDESTAL SHALL MATCH COUNTY STANDARDS. UNDERGROUND SERVICE SHALL BE OBTAINED FROM THE NEAREST UTILITY POLE OR SERVICE POINT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL AND COORDINATING WITH POWER SERVICE

CONDUIT SYSTEM SHALL BE ADDED TO CONNECT EXISTING COMMUNICATION CABLE PLANT TO THE NEW CONTROLLER CABINET LOCATION AS DIRECTED BY THE COUNTY

4. ALL CONDUIT ENTERING INTO JUNCTION BOXES SHALL NOT EXTEND OVER 3" MAXIMUM NOR 2" MINIMUM INSIDE THE JUNCTION BOXES, AND SHALL BE FITTED WITH BELL ENDS

5. ALL JUNCTION BOXES SHALL HAVE A GROUND ROD INSTALLED. ALL JUNCTION BOXES SHALL BE PROPERLY CONNECTED TO THE INTERSECTION GROUNDING SYSTEM. METAL LIDS SHALL BE BONDED TO THE GROUNDING SYSTEM.

6. CONTRACTOR IS TO VERIFY DEPTHS OF UTILITIES AT PROPOSED CONDUIT CROSSINGS PRIOR TO EXCAVATING CONDUIT TRENCHES OR BORING.

7. ALL CONDUITS BENEATH ROADWAYS SHALL BE DIRECTIONAL DRILLED UNLESS DIRECTED OTHERWISE BY THE COUNTY CONSTRUCTION MANAGER. WHERE DIRECTED ON THE PLANS OR BY THE CONSTRUCTION MANAGER, THE CONTRACTOR SHALL INSTALL SPARE CONDUITS WITH PULL TAPE AND TRACER WIRE FOR ROAD CROSSINGS.

8. ALL EXISTING CONDUIT AND CABLES ARE BASED ON RECORD DRAWINGS OR WERE ESTIMATED. CONTRACTOR SHALL VERIFY CONDUIT FILL CAPACITY IN EXISTING CONDUITS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY IF CONDUIT CAPACITY IS NOT AVAILABLE IN EXISTING CONDUIT FOR NEW

9. NEW CCTV CAMERAS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY REQUIREMENTS. CONTRACTOR SHALL CONFIRM MOUNTING LOCATION OF CCTV CAMERA 10. ALL PROPOSED CONDUIT SHALL HAVE #8 AWG (EGC) FOR GROUNDING SYSTEM.

11. REMOVE ALL EXISTING UNUSED RISER, JUNCTION BOXES, AND CABLES.

F. SIGNS

- 1. ALL MAST ARM SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS. SIGNS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
- 2. STREET NAME SIGNS SHALL HAVE A WHITE LEGEND ON GREEN BACKGROUND. CONTRACTOR SHALL SUBMIT SIGN DETAILS TO COUNTY TO REVIEW. THE DIMENSIONS PROVIDED ON PLANS ARE ESTIMATED.

G. DEMOLITION/SALVAGE

- 1. ALL EXISTING SIGNAL EQUIPMENT IS TO BE REMOVED & RETURNED TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES LOCATED AT 4300 29TH ST S., ARLINGTON, VA 22206.
- 2. ALL EXISTING SIGNAL POLE FOUNDATIONS SHALL BE DEMOLISHED IN ACCORDANCE WITH ARLINGTON COUNTY SPECIFICATIONS.
- H. COMMUNICATIONS
- 1. EXISTING COUNTY FIBER JUNCTION BOXES AND CONDUITS CONTAIN LIVE FIBER OPTIC CABLES. THE CONTRACTOR SHALL NOT CUT OR DAMAGE THE COUNTY'S EXISTING FIBER CABLES.
- 2. ALL FIBER OPTIC CABLE INSTALLATION, REMOVAL, SPLICING, AND TESTING SHALL BE PERFORMED BY THE COUNTY AT THE CONTRACTOR'S EXPENSE. CONTRACTOR MAY CONTRACT DIRECTLY WITH THE COUNTY'S FIBER CONTRACTORS. UPON REQUEST 703-228-7726, THE COUNTY WILL PROVIDE THE CONTACT INFORMATION FOR CURRENT COUNTY FIBER CONTRACTORS.
- 3. CONTACT ARLINGTON COUNTY DTS FOR FIBER OPTIC CABLE REMOVAL OR INSTALLATION AT LEAST 10 BUSINESS DAYS IN ADVANCE.
- 4. CONTRACTOR SHALL FURNISH FIBER PATCH PANEL FOR INSTALLATION BY THE COUNTY. FIBER PIGTAIL SHALL BE APPROPRIATE LENGTH TO ALLOW FOR 50 FEET OF SLACK IN EACH INTERMEDIATE JUNCTION BOX. CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PATCH PANEL (INDICATING THE TAIL LENGTH) FOR COUNTY REVIEW PRIOR TO ORDERING.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF PROPOSED JUNCTION BOXES AND CONDUITS INCLUDING ALL APPURTENANCES SUCH AS GROUND RODS, TRACER WIRE, PULL TAPE, ETC.
- 6. ALL NEW CONDUITS SHALL HAVE PULL TAPE INSTALLED BETWEEN JUNCTION BOXES AND TRACER WIRE INSTALLED WITHIN OR BESIDE AT LEAST ONE OF THE CONDUITS. TRACER WIRE SHALL BE CONNECTED TO THE GROUND RODS INSTALLED IN THE ADJACENT JUNCTION BOXES.
- 7. DO NOT SPLICE TRACER WIRE.

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	DEPARTMENT OF ENVIRONMENTAL SERVICES	
	Signal Systems and ITS Traffic Engineering and Operations Bureau 2100 Clarendon Boulevard, Suite 900 Arlington, VA 22201 Phone: 703.228.3629 Fax: 703.228.3606	
	Kimley » Horn Kimley-Horn and Associates, Inc. © 2018 KiMLEY-HORN AND ASSOCIATES, INC. 11400 Commerce Park Drive, Suite 400 Restor Virginia 20191 Phone: 703-674-1300 Fax: 703-674-1350	
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MAPPING

1. EXISTING CONDITIONS MAPPING PROVIDED BY ARLINGTON COUNTY. BASIS FOR MAPPING IS FIELD SURVEY AND AS-BUILT INFORMATION.

<u>GENERAL REQUIREMENTS</u>

- 1. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND LICENSES AND KEEP COPIES OF THE SAME ON SITE DURING CONSTRUCTION, EXCEPT AS PROVIDED BY ARLINGTON COUNTY.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK SITE, FREE FROM TRASH AND DEBRIS.
 THE CONTRACTOR SHALL KEEP AND MAINTAIN A SET OF APPROVED PROJECT PLANS AND
- SPECIFICATIONS ON SITE AT ALL TIMES.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, PAVEMENT MARKINGS, ETC. THAT MUST BE CUT OR REMOVED, OR THAT ARE DAMAGED DURING CONSTRUCTION.

<u>COORDINATION</u>

- 1. CONSTRUCTION WILL TAKE PLACE ADJACENT TO ONGOING TRAFFIC OPERATIONS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ARLINGTON COUNTY (AC).
- 2. THE CONTRACTOR SHALL SUBMIT A SCHEDULE FOR CONSTRUCTION TO AC IN ACCORDANCE WITH ARLINGTON COUNTY D.E.S. REQUIREMENTS.
- 3. PER THE CONTRACT DOCUMENTS, PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE A MEETING WITH AC TO DISCUSS COORDINATION OF CONSTRUCTION ACTIVITIES AND RELATED PROJECTS. THE CONTRACTOR SHALL PARTICIPATE IN A CONTRACTOR LED BIWEEKLY PROGRESS MEETINGS WITH THE COUNTY AND SHALL SUBMIT SCHEDULE UPDATES AT THESE MEETINGS.
- 4. THE CONTRACTOR WILL ALSO BE REQUIRED TO CLOSELY COORDINATE WITH ADJACENT ONGOING AND PLANNED PROJECTS BEING CONSTRUCTED BY OTHERS, INCLUDING BUT NOT LIMITED TO THE COUNTY FIBER OPTIC INSTALLATION.

CLEARING AND GRUBBING/DEMOLITION

- 1. THE CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES AS NOTED AND SHOWN ON THESE PLANS AND AS DIRECTED BY ARLINGTON COUNTY (AC).
- 2. INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION PRIOR TO BEGINNING DEMOLITION WORK.
- 3. DEMOLITION DETAILS AND NOTES ARE INTENDED TO DEPICT GENERAL DEMOLITION AND UTILITY WORK AND ARE NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. CONTRACTOR SHALL COORDINATE WITH AC AND APPROPRIATE UTILITY COMPANIES PRIOR TO WORK.
- 4. THE CONTRACTOR SHALL REMOVE OR ABANDON, AS SPECIFIED, EXISTING UTILITIES SUCH AS STORM DRAINAGE, SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELEPHONE OR AS DIRECTED BY AC. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH UTILITY COMPANY AND AC TO COORDINATE ABANDONMENT OR REMOVAL OF ALL UTILITIES AND FOR DETERMINING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO COMMENCING WORK.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
- 6. ALL MATERIALS REMOVED UNDER CLEARING WORK, NOT TO BE RELOCATED OR TO BE TURNED OVER TO THE OWNER, SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
- 7. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING ROAD SURFACES.
- 8. ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.

<u>UTILITIES</u>

- THIS PLAN DOES NOT GUARANTEE THE EXISTENCE, NONEXISTENCE, SIZE, TYPE, LOCATION, ALIGNMENT, OR DEPTH OF ANY UNDERGROUND UTILITIES OR OTHER FACILITIES. WHERE SURFACE FEATURES (MANHOLES, CATCH BASINS, VALVES, ETC.) ARE UNAVAILABLE OR INCONCLUSIVE, INFORMATION SHOWN MAY BE FROM UTILITY OWNER'S RECORDS AND/OR ELECTRONIC LINE TRACING, THE RELIABILITY OF WHICH IS UNCERTAIN. THE CONTRACTOR SHALL PERFORM TEST EXCAVATIONS OR OTHER REINVESTIGATIONS AS NECESSARY TO VERIFY LOCATION AND CLEARANCES.
- 2. UNLESS OTHERWISE NOTED, UTILITIES LIDS, INCLUDING WATER VALVE LIDS, ARE TO BE ADJUSTED BY THE CONTRACTOR TO MATCH FINAL GRADE AND SLOPE.
- 3. STATE LAW MANDATES THE NOTIFICATION OF UTILITY OWNERS 48 HOURS IN ADVANCE OF EXCAVATION. FOR LOCATION OF UTILITIES CALL:

TELEPHONE 888-667-3000 888-826-2355 888-683-1000 540-891-5545
703-750-1000

- 4. CONTRACTOR SHALL CONFORM TO THE "OVERHEAD HIGH VOLTAGE ACT" (EFFECTIVE JULY 1, 2003) AND SHALL CONTACT THE NECESSARY AUTHORITIES PRIOR TO START OF CONSTRUCTION.
- 5. ARLINGTON COUNTY'S UTILITY DEPARTMENT INSPECTOR SHALL BE NOTIFIED WHEN ANY IMPROVEMENT PERTINENT TO HIS INSPECTION DUTIES ARE BEING INSTALLED. SPECIFIC REQUIREMENTS ARE:
 - A. SITE INSPECTOR OR AREA SUPERVISOR IS TO BE NOTIFIED AT LEAST 3 DAYS PRIOR TO START OF CONSTRUCTION.
 - A MINIMUM OF 24 HOURS NOTICE IS REQUIRED WHEN REQUESTING COMPACTION TESTS.
- 5. STABLE SUBGRADE SHALL COMPRISE SOLID, WELL DRAINED, UNDISTURBED EARTH CAPABLE OF SUPPORTING STREET LOADING WITHOUT RESULTING IN ANY DAMAGING SETTLEMENT AS DETERMINED BY THE ENGINEER.
- WHERE UNSUITABLE SUBGRADE, AS DETERMINED BY THE ENGINEER, IS ENCOUNTERED, IT SHALL BE MADE STABLE BY DRAINING, COMPACTING, AND/OR REPLACING AS REQUIRED, TO THE SATIFACTION OF THE ENGINEER.
- 8. ALL CONCRETE SHALL BE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) CLASS "A4" FOR PRECAST STRUCTURES AND VDOT CLASS "A3" FOR ALL OTHERS USES, UNLESS OTHERWISE SPECIFIED.
- 9. ALL ASPHALT PAVEMENT COURSES SHALL BE IN CONFORMANCE WITH VDOT SPECIFICATIONS.
- 10. EXISTING FIRE HYDRANTS MUST REMAIN ACTIVE UNTIL NEW HYDRANTS ARE AVAILABLE FOR PUBLIC USE. CONTRACTOR TO COORDINATE WITH PROPERTY OWNERS AND FIRE DEPARTMENT WHEN SERVICES TO PROPERTIES ARE INTERRUPTED.

GENERAL NOTES

WATER-SEWER CONSTRUCTION REQUIREMENTS

- 1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES CONSTRUCTION STANDARDS & SPECIFICATIONS AND SHALL BE APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL SERVICES. UPON PHYSICAL INSPECTION, THE COUNTY RESERVES THE RIGHT TO REJECT THE USE OF ANY MATERIAL FOUND TO BE DEFECTIVE OR NOT CONFORMING TO THE STANDARDS AND SPECIFICATIONS.
- 2. BEFORE START OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE FOLLOWING INFORMATION AND/OR EVIDENCE OF COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND LAWS, TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES:
 - THE NAME AND ADDRESS OF THE CONTRACTOR HIRED TO WORK ON THE PROJECT. THE CONTRACTOR SHALL BE REGISTERED IN THE COMMONWEALTH OF VIRGINIA. SATISFACTORY EVIDENCE SHALL BE FURNISHED OF THE CONTRACTOR'S PRIOR EXPERIENCE AS PRIME CONTRACTOR IN THE CONSTRUCTION OF WATER MAINS AND/OR SANITARY SEWER INSTALLATIONS. FURTHER, THE CONTRACTOR SHALL FURNISH A LETTER WITH A LIST OF MATERIALS AND SUPPLIERS FOR PROPOSED PROJECT.
 - A RIGHT-OF-WAY PERMIT IS REQUIRED TO WORK IN ARLINGTON COUNTY STREETS. IN INSTANCES OF EXCAVATIONS IN STATE RIGHT OF WAY, THE DATE AND NUMBER OF ALL PERMITS REQUIRED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) SHALL BE FURNISHED.
 - IF ANY EASEMENTS ARE NEEDED, TWO (2) COPIES OF THE DESCRIPTION OF SUCH EASEMENT, AS ACTUALLY RECORDED, SHALL BE FURNISHED, INCLUDING THE PLACE, DATE AND REFERENCE OF SUCH RECORDATION PRIOR TO PLAN APPROVAL.
 - WRITTEN NOTICE OF TENTATIVE STARTING DATE OF CONSTRUCTION, WHICH SHALL BE A MINIMUM OF ONE (1) WEEK FOLLOWING THE DATE OF NOTICE. IN ADDITION, THE CONTRACTOR SHALL FURNISH THE NAMES AND TELEPHONE NUMBERS OF TWO (2) RESPONSIBLE PERSONS WHO CAN BE CONTACTED IN CASE OF EMERGENCY.
 - EXISTING WATER SERVICES MAY BE ALLOWED FOR CONSTRUCTION PURPOSES ONLY WITH PRIOR APPROVAL OF ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES. IN THESE CASES, INSTALLATION OF A WATER METER FOR "WATER ONLY" USE SHALL BE REQUESTED BY CALLING THE UTILITY SERVICES OFFICES AT (703) 228-6570. THE METER WILL NOT BE PROVIDED WITHOUT EVIDENCE THAT THE CONTRACTOR HAS INSTALLED AN ASSE-1013 APPROVED, REDUCED-PRESSURE, BACKFLOW PREVENTION (HIGH HAZARD) DEVICE PER THE ARLINGTON COUNTY PLUMBING CODE.
 - CONSTRUCTION SHALL NOT BEGIN UNTIL THE ABOVE ITEMS HAVE BEEN COMPLETED AND THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES HAS APPROVED THE STARTING DATE AND ARRANGEMENTS HAVE BEEN MADE FOR THE REQUIRED INSPECTION SERVICE.
- 3. ALL CONSTRUCTION SHALL BE ACCOMPLISHED FROM APPROVED PLANS, SPECIFICATIONS AND CUT SHEETS SUBMITTED BY A REGISTERED ENGINEER AND APPROVED BY THE COUNTY. TO AVOID CONSTRUCTION DELAYS ALL NECESSARY TEST HOLE INFORMATION SHALL BE OBTAINED PRIOR TO PLAN APPROVAL. WATER MAIN VALVES, METERS AND APPURTENANCES SHALL ONLY BE OPERATED BY ARLINGTON COUNTY WATER PERSONNEL.
- 4. NO EXISTING WATER MAINS, FIRE HYDRANTS, OR SANITARY SEWERS MAY BE TAKEN OUT OF SERVICE OR MADE INACCESSIBLE BY THE CONTRACTOR WITHOUT THE PRIOR APPROVAL FROM THE DEPARTMENT OF ENVIRONMENTAL SERVICES.
- 5. SANITARY SEWER LATERALS ARE PRIVATELY OWNED AND MAINTAINED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING LATERALS WITHIN THE LIMITS OF CONSTRUCTION. APPROPRIATE PERMITS AND INSPECTIONS FOR WORK ON ANY LATERALS SHALL BE OBTAINED FROM THE INSPECTION SERVICES DIVISION. ANY LATERALS ABANDONED WITH THE PROJECT SHALL BE CAPPED AT THE SEWER MAIN.
- 6. IN CASES WHERE A PROPOSED SANITARY SEWER IS TO BE CONNECTED TO AN EXISTING SANITARY MANHOLE, THE EXISTING MANHOLE SHALL BE RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AS DIRECTED BY THE COUNTY TO MEET THE CURRENT STANDARDS. ALL NEW CONNECTIONS TO THE EXISTING MANHOLES SHALL BE CORE DRILLED WITH BOOT JUST ABOVE THE EXISTING BENCH AND THE FLOW CHANNELS RESHAPED AS NEEDED.
- 7. UPON COMPLETION OF CONSTRUCTION, ALL FINAL TESTS, AS REQUIRED, SHALL BE PERFORMED IN THE PRESENCE OF THE COUNTY'S REPRESENTATIVE. WATER AND SEWER SERVICE CONNECTIONS SHALL NOT BE MADE UNTIL THE WATER AND/OR SEWER MAINS AND APPURTENANCES HAVE BEEN APPROVED AND ACCEPTED BY ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR DECHLORINATING ALL CHLORINATED WATER, REGARDLESS OF THE CONCENTRATION. ALL SUPER CHLORINATED WATER REQUIRES A DECHLORINATION PLAN THAT SHALL BE SUBMITTED TO AND APPROVED BY ARLINGTON COUNTY. THIS PLAN SHALL DESCRIBE HOW AND WHERE THE WATER IS TO BE DISCHARGED.
- 8. THE CONTRACTOR SHALL MAINTAIN BACKFILL FOR UTILITY EXCAVATIONS UNTIL ARLINGTON COUNTY HAS FINALLY ACCEPTED THE PROPOSED WATER AND/OR SEWER MAIN. ALSO, ALL SURFACES OVER THE UTILITY EXCAVATIONS SHALL EITHER BE RESTORED TO THE ORIGINAL CONDITION OR FINISHED AS PER THE PROPOSED DESIGN BEFORE THE ACCEPTANCE OF THE PROJECT. PAVEMENT PATCHING FOR UTILITY CUTS IN THE PUBLIC STREETS SHALL BE PERFORMED IN ACCORDANCE WITH ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES CONSTRUCTION STANDARDS AND SPECIFICATIONS OR AS PER VDOT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS DEPENDING UPON THE STREET OWNERSHIP. PRIOR TO FINAL PAVING, THE CONTRACTOR SHALL ADJUST ALL EXISTING VALVE BOXES AND SANITARY SEWER MANHOLE FRAME AND COVERS AS PER COUNTY STANDARDS, REMOVE ALL ABANDONED SANITARY MANHOLES AND VALVE BOXES OVER THE ABANDONED WATER MAINS, ABANDON ALL PIPES IN ACCORDANCE WITH COUNTY STANDARDS AND COMPLETE ALL NECESSARY WATER MAIN □CUT AND CAPS."
- 9. UPON COMPLETION, APPROVAL, AND ACCEPTANCE OF WATER AND/OR SEWER MAINS AND APPURTENANCES, THE CONTRACTOR SHALL SUBMIT A TELEVISION INSPECTION AND REPORT ON A DVD IN A COUNTY APPROVED FORMAT. PRIOR TO ANY BOND REDUCTION/RELEASE OR APPROVAL/ACCEPTANCE OF WATER AND/OR SEWER MAINS AND APPURTENANCES, THE CONTRACTOR'S REGISTERED ENGINEER SHALL SUBMIT TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, A SET OF MYLAR TRACINGS AND CD WITH PDF FILE FORMAT THAT SHOWS THE AS-BUILT CONDITIONS PER THE COUNTY STANDARDS AND A SIGNED STATEMENT CONFIRMING THAT THE WORK, AS INDICATED, IS ACCEPTABLE TO THE ENGINEER.
- 10. PRIOR TO THE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL REQUEST TO THE UTILITY SERVICES IN WRITING FOR THE DISCONTINUATION OF ALL EXISTING WATER SERVICES (WHERE APPLICABLE) AT WHICH TIME THE COUNTY WILL REMOVE THE WATER METER AND ISSUE A FINAL BILL. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING METER BOXES RELATED TO THE SERVICES BEING DISCONTINUED AND DISCONNECTING EXISTING WATER SERVICES AT THE MAIN BY EXCAVATING, TURNING OFF THE CORPORATION STOP AND DISCONNECTING THE SERVICE FROM THE CORPORATION STOP.

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EROSION AND SEDIMENT CONTROL

- 1. TEMPORARY SILT FENCE SHALL BE CONSTRUCTED FOR SHEET RUN OFF AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER. INFORMATION.
- 2. WHEN WIRE SUPPORT IS USED, STANDARD STRENGTH FILTER CLOTH MAY BE USED. POSTS FOR THIS TYPE OF INSTALLATION SHALL BE PLACED A MAXIMUM OF 10 FEET APART. THE WIRE MESH FENCE MUST BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST ONE INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF TWO INCHES AND SHALL NOT EXTEND MORE THAN 34 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 3. WHEN WIRE SUPPORT IS NOT USED, EXTRA STRENGTH FILTER CLOTH SHALL BE USED. POSTS FOR THIS TYPE OF FABRIC SHALL BE PLACED A MAXIMUM OF 6 FEET APART. THE FILTER FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING ONE INCH LONG (MINIMUM) HEAVY DUTY WIRE STAPLES OR TIE WIRES AND EIGHT INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH.
- 4. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES. POSTS SHALL BE EITHER STEEL POSTS OR WOODEN STAKES AND HAVE A MINIMUM LENGTH OF 5 FEET.
- 5. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS NOTED IN TABLE 3.05-B OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION. THE SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF SIX MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0°F TO 120°F.
- 6. SILT FENCES SHALL BE INSPECTED AND CLEANED ON A WEEKLY BASIS AND ON A DAILY BASIS IMMEDIATELY FOLLOWING EACH RAIN STORM. ALL NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY.
- 14. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE <u>VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION (1992)</u> AND VIRGINIA REGULATIONS 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
- 15. THE TEMPORARY EROSION AND SILTATION (E&S) CONTROL ITEMS SHOWN ON THE E&S CONTROL PLAN ARE INTENDED TO PROVIDE A GENERAL PLAN FOR CONTROLLING EROSION AND SILTATION WITHIN THE PROJECT LIMITS. THE E&S CONTROL PLAN IS BASED ON FIELD CONDITIONS AT THE TIME OF PLAN DEVELOPMENT AND AN ASSUMED SEQUENCE OF CONSTRUCTION. THE CONTRACTOR, IN CONJUNCTION WITH THE AC PROJECT MANAGER AND/OR RLD, SHALL ADJUST THE LOCATION, QUANTITY AND TYPE OF EROSION AND SILTATION CONTROL ITEMS REQUIRED BASED ON THE ACTUAL FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION AND THE SELECTED SEQUENCE OF CONSTRUCTION.
- 16. THE AREAS BEYOND THE PROJECT'S CONSTRUCTION AREA ARE TO BE PROTECTED FROM SILTATION. PERIMETER CONTROLS SUCH AS FILTER BARRIER, SILT FENCE, ETC. SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OPERATIONS.
- 17. SILT REMOVAL AND SEDIMENT CLEAN-OUT FROM EROSION AND SILTATION CONTROL ITEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING: A. TEMPORARY SEDIMENT BASINS AND SEDIMENT TRAPS - WHEN THE "WET" STORAGE VOLUME
 - (PERMANENT POOL) HAS BEEN REDUCED BY 50%.
 - B. DEWATERING BASINS WHEN THE EXCAVATED VOLUME HAS BEEN REDUCED BY 50%.
 C. ALL OTHER EROSION AND SILTATION CONTROL ITEMS WHEN THE CAPACITY, HEIGHT, OR DEPTH HAS BEEN REDUCED BY 50%.
- 18. EXCEPT WHERE NOTED HEREON, TO THE BEST OF THE DESIGNER'S KNOWLEDGE, THE PROPOSED DEVELOPMENT OF THE SUBJECT PROPERTY CONFORMS TO ALL CURRENT APPLICABLE LAND DEVELOPMENT ORDINANCES, REGULATIONS, AND ADOPTED STANDARDS.
- 19. LAND CONSERVATION NOTES MEASURES TO CONTROL EROSION AND SILTATION SHALL BE PROVIDED PURSUANT TO AND IN COMPLIANCE WITH CURRENT STATE AND LOCAL REGULATIONS. HOWEVER, THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OR HIS AGENT OF ANY LEGAL RESPONSIBILITIES WHICH MAY BE REQUIRED BY THE CODE OF VIRGINIA OR ANY ORDINANCE ENACTED BY AC.
- 20. ADDITIONAL SILTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS DIRECTED BY ARLINGTON COUNTY INSPECTOR DURING FIELD REVIEW; COSTS ASSOCIATED WITH ADDITIONAL MEASURES SHALL BE ASSUMED BY THE CONTRACTOR.
- 21. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION.
- 22. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 23. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- 24. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- 25. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- 26. EROSION CONTROL MEASURES ARE TO BE REMOVED BY CONTRACTOR AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED.
- 27. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS: 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 THE TRENCH.
 C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED (EXAMPLE WOULD BE A SILT BAG) OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE (EXAMPLE WOULD BE A SEDIMENT TRAP) 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 COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
 - E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH STANDARDS 3.31 AND 3.32.
 - F. ALL TRENCHING SHALL BE IN ACCORDANCE WITH APPLICABLE SAFETY STANDARDS.

MINIMUM STANDARDS REVIEW

- MS-1 TEMPORARY AND PERMANENT STABILIZATION HAS BEEN ADDRESSED. INFORMATION.
- MS-2 THERE ARE NO STOCKPILES PROPOSED WITH THIS PLAN.
- MS-3 MAINTENANCE OF PERMANENT STABILIZATION HAS BEEN ADDRESSED, SEE PERMANENT STABILIZATION.
- MS-4 SEDIMENT TRAPPING FACILITIES ARE TO BE INSTALLED AS THE FIRST STEP IN LAND DISTURBING ACTIVATES. MAINTENANCE OF FACILITIES ARE DETAILED UNDER THE EROSION AND SEDIMENT CONTROL NOTES.
- MS-5 THERE ARE NO EARTHEN STRUCTURE PROPOSED WITH THIS PROJECT.
- MS-6 THERE ARE NO SEDIMENT BASINS PROPOSED WITH THIS PROJECT.
- MS-7 THERE ARE NO CUT AND FILL SLOPES PROPOSED WITH THIS PROJECT.
- MS-8 THERE ARE NO PAVED FLUMES, CHANNELS, OR SLOPE DRAINS PROPOSED WITH THIS PROJECT.
- MS-9 THERE ARE NO WATER SEEPS ANTICIPATED WITH THIS PROJECT.
- MS-10 INLET PROTECTION IS PROVIDED ON INLETS DOWN GRADIENT FROM DISTURBED AREAS.
- MS-11 ADEQUATE OUTLET PROTECTION EXIST AT ALL EXISTING OUTLETS. THERE ARE NO NEW OUTLETS PROPOSED.
- MS-12 THERE ARE NO IN-STREAM CONSTRUCTION MEASURES PROPOSED WITH THIS PROJECT.
- MS-13 THERE ARE NO STREAM CROSSINGS PROPOSED WITH THIS PROJECT.
- MS-14 THERE ARE NO WATERCOURSES BEING CROSSED WITH THIS PROJECT.
- MS-15 THERE ARE NO IMPACTS TO IN-STREAM IMPROVEMENTS PROPOSED WITH THIS PROJECT.
- MS-16 UTILITY TRENCHING HAS BEEN ADDRESSED IN THE EROSION AND SEDIMENT CONTROL NOTES.
- MS-17 PREVENTING SOIL FROM BEING TRACKED ON THE STREETS IS ADDRESSED IN THE EROSION AND SEDIMENT CONTROL NOTES.
- MS-18 THE REMOVAL OF TEMPORARY PRACTICES HAS BEEN ADDRESSED IN THE EROSION AND SEDIMENT CONTROL NOTES.
- MS-19 THIS PROJECT REDUCES THE IMPERVIOUS AREA AND DECREASE THE RUNOFF FROM THE SITE AREA. DOWNSTREAM OUTFALL POINTS ARE ADEQUATELY PROTECTED AND ARE NOT ACTIVELY ERODING. OUTFALL POINTS HAVE BEEN ANALYZED AND FOUND TO BE ADEQUATE IN ACCORDANCE WITH THE STATE OUTFALL REQUIREMENTS.

MS4 NOTES

- 1. ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S MS4 PERMIT, UNLESS THE STATE WATER CONTROL BOARD, THE VIRGINIA SOIL AND WATER CONSERVATION BOARD (BOARD), OR ARLINGTON COUNTY DETERMINES THE DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTANTS TO SURFACE WATERS: WATER LINE FLUSHING; LANDSCAPE IRRIGATION; DIVERTED STREAM FLOWS; RISING GROUND WATERS; UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20)); UNCONTAMINATED PUMPED GROUND WATER; DISCHARGES FROM POTABLE WATER SOURCES; AIR CONDITIONING CONDENSATION; IRRIGATION WATER; SPRINGS; WATER FROM CRAWL SPACE PUMPS; FOOTING DRAINS; LAWN WATERING; INDIVIDUAL RESIDENTIAL CAR WASHING; FLOWS FROM RIPARIAN HABITATS AND WETLANDS; DECHLORINATED SWIMMING POOL DISCHARGES; DISCHARGES OR FLOWS FROM FIRE FIGHTING; AND, OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION.
- 2. APPROPRIATE CONTROLS MUST BE IMPLEMENTED TO PREVENT ANY NON-STORMWATER DISCHARGES NOT INCLUDED ON THE ABOVE LIST (EG., CONCRETE WASH WATER, PAINT WASH WATER, VEHICLE WASH WATER, DETERGENT WASH WATER, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S MS4 SYSTEM, WHICH INCLUDES THE CURB AND GUTTER SYSTEM, AS WELL AS CATCH BASINS AND OTHER STORM DRAIN INLETS, OR STREAM NETWORK.
- 3. PER CHAPTER 26 OF THE ARLINGTON COUNTY CODE, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE STORM SEWER SYSTEM OR STATE WATER, ANY SUBSTANCE LIKELY, IN THE OPINION OF THE COUNTY MANAGER, TO HAVE AN ADVERSE EFFECT ON THE STORM SEWER SYSTEM OR STATE WATERS.

GENERAL LAND CONSERVATION NOTES

- 1. NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.
- 2. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
- 3. ALL STORM AND SANITARY SEWER LINES NOT IN STREETS ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL. NO MORE THAN 500 FEET ARE TO BE OPEN AT ANY ONE TIME.
- 4. ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED AND MULCHED WITHIN 5 DAYS OF BACKFILL.
- 5. ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
- 6. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
- 7. ANY DISTURBED AREA NOT COVERED BY NOTE # 1 ABOVE AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1ST, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED NO LATER THAN MAY 15TH.
- 8. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILTATION MEASURES.

EROSION CONTROL NARRAT

- PROJECT DESCRIPTION: THIS PROJECT RECONSTRUCTS THREE EXISTING INTE ST S. ALL CONSTRUCTION WORK WILL BE FOR THE TO INCLUDE ARLINGTON COUNTY PUBLIC HOLIDAYS.
- EXISTING CONDITIONS: S CARLIN SPRINGS ROAD IS A MULTI-LANE, CURB UTILITIES ARE LOCATED ALONG MOST OF THE ROAD STORM DRAINAGE STRUCTURES AND PIPES, SANITA COMMUNICATIONS LINES AND MASS TRANSIT STOP PROPOSED WITH LIMITED AREAS OUTSIDE OF THE R WITHIN THE PROJECT LIMITS SHALL BE REPLACED.
- ADJACENT AREAS:
- S CARLIN SPRINGS ROAD IS BOUND ON BOTH SIDE AND A SCHOOL. THE CONTRACTOR SHALL PROVID ADJACENT AREAS TO DOCUMENT ADJACENT OFFSIT OFF-SITE AREAS:
- THERE ARE NO OFF-SITE AREAS OR STOCKPILES A CONTRACTOR OR ITS LACK OF EROSION CONTROLS TIMELY MANOR.
- SOILS:
- THE SOILS IN THE PROJECT AREA HAVE BEEN MAF HAVE BEEN PREVIOUSLY DISTURBED AND NOT CHA ANALYZED BY GEOCONCEPTS ENGINEERING, INC. AN DOCUMENTS. THE SOILS HAVE BEEN LISTED AS A – SC). ADDITIONAL INFORMATION IS AVAILABLE IN
- CRITICAL AREAS:
- THERE ARE NO CRITICAL AREAS ASSOCIATED WITH THE CONTRACTOR SHALL PROTECT THOSE AREAS PROJECT AREA.
- EROSION AND SEDIMENT CONTROL MEASURES: THE FOLLOWING EROSION CONTROLS SHALL BE USI
- 1. STD. 3.05 SILT FENCE SILT FENCE AND STANDARD AND AS SPECIFIED BY ARLINGTON SHALL BE USED DOWN GRADIENT FROM DISTU THE TRANSPORTATION OF SEDIMENT BEYOND LAND DISTURBANCE AND SHALL BE REMOVED STABILIZATION ESTABLISHED. COORDINATE R
- 2. STD. 3.07 STORM DRAIN INLET PROTECTION WITH THIS STANDARD. INLETS DOWN GRADIEN INSTALLED PRIOR TO STARTING LAND DISTURE COLUMBIA PIKE WHEN SELECTING THE TYPE CO SILT BUILDUP PROMPTLY SO THAT SILT IS NO SHALL OCCUR ONCE DISTURBED AREA UP GR WITH THE ARLINGTON COUNTY INSPECTOR.
- 3. STD. 3.26 DEWATERING STRUCTURE ALL ACCORDANCE WITH THIS STANDARD. DEWATE CONTRACTOR IS TO NOTIFY THE ARLINGTON O THE LOCATION AND TYPE OF FILTER OR CON
- 4. STD. 3.31 TEMPORARY SEEDING TEMPOR TEMPORARY STABILIZATION IS REQUIRED WHEN CONTRACTOR SHALL STABILIZE DISTURBED AR PROTECTION TO EROSION. TEMPORARY SEEDI DENSE, HEALTHY STAND OF VEGETATION THAT
- THE CONTRACTOR SHALL USE APPROPRIATE I TO THE CONDITION THAT WAS PRESENT PRIOF
 STD. 3.33 SODDING – ALL SODDING SHAL MAINTAINED BY THE CONTRACTOR UNTIL THE
- CONTRACTOR SHALL COORDINATE THE RELEAS
 INSPECTOR AND THE LAND OWNER.
 7. STD. 3.38 TREE PRESERVATION AND PROTECTION STANDARD AND ARLINGTON COUNTY'S TI PROTECTION SHALL BE USED ALONG THE LIMI MAY HAVE A CRITICAL ROOT ZONE THAT EXT URBAN FORESTER MAY REQUIRE ADDITIONAL LAND DISTURBING ACTIVITIES. TREE PRESERV OF THE ARLINGTON COUNTY URBAN FORESTER

PERMANENT STABILIZATION:

- ALL DISTURBED AREAS BY THIS PROJECT SHALL BE SODDING IS THE REQUIRED GROUND COVER FOR AR FOR MAINTENANCE OF ALL DISTURBED ARES UNTIL THIS SHALL INCLUDE CUTTING THE GRASS TO MAIN
- STORMWATER RUNOFF CONSIDERATIONS: THIS PROJECT REDUCES THE OVERALL IMPERVIOUS
- PATTERNS OR VOLUMES. NO FLOODING OR CHANN THE PROPOSED REDUCTION IN RUNOFF.

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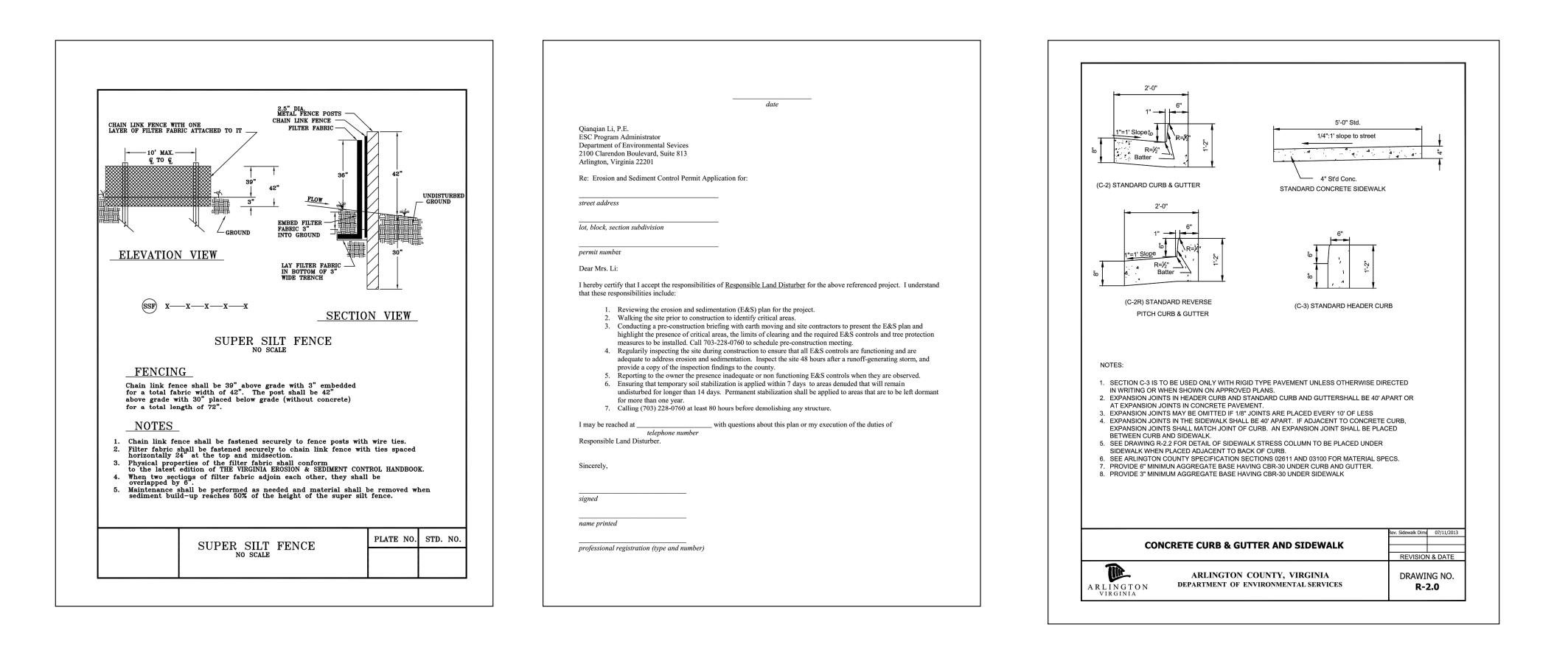
DETAILED CALCULATIONS SHOWING PRE AND POST AND FLOWS ARE INCLUDED IN THIS SET OF PLANS.

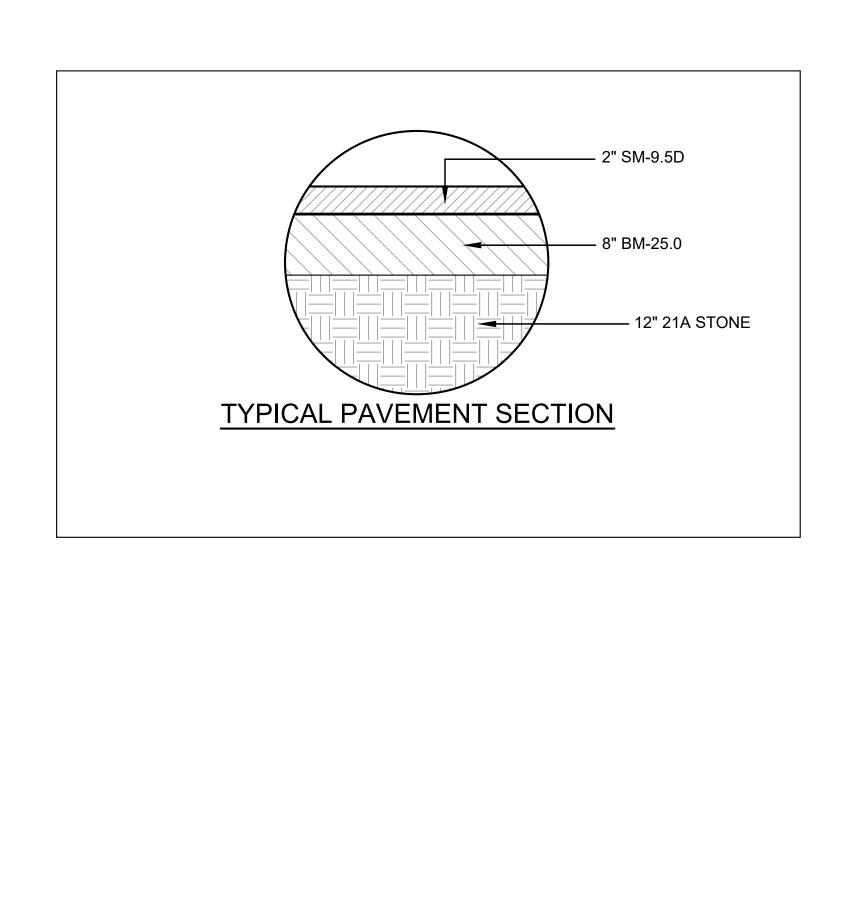
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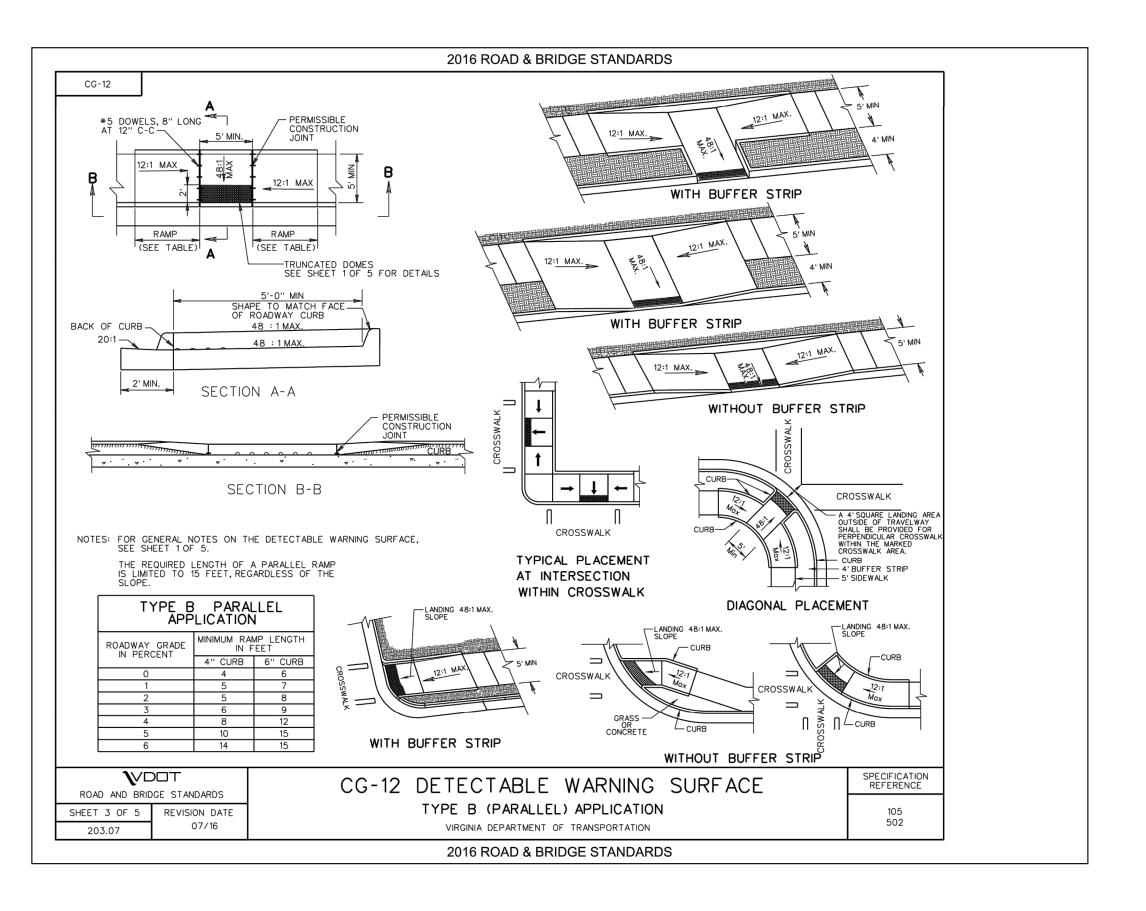
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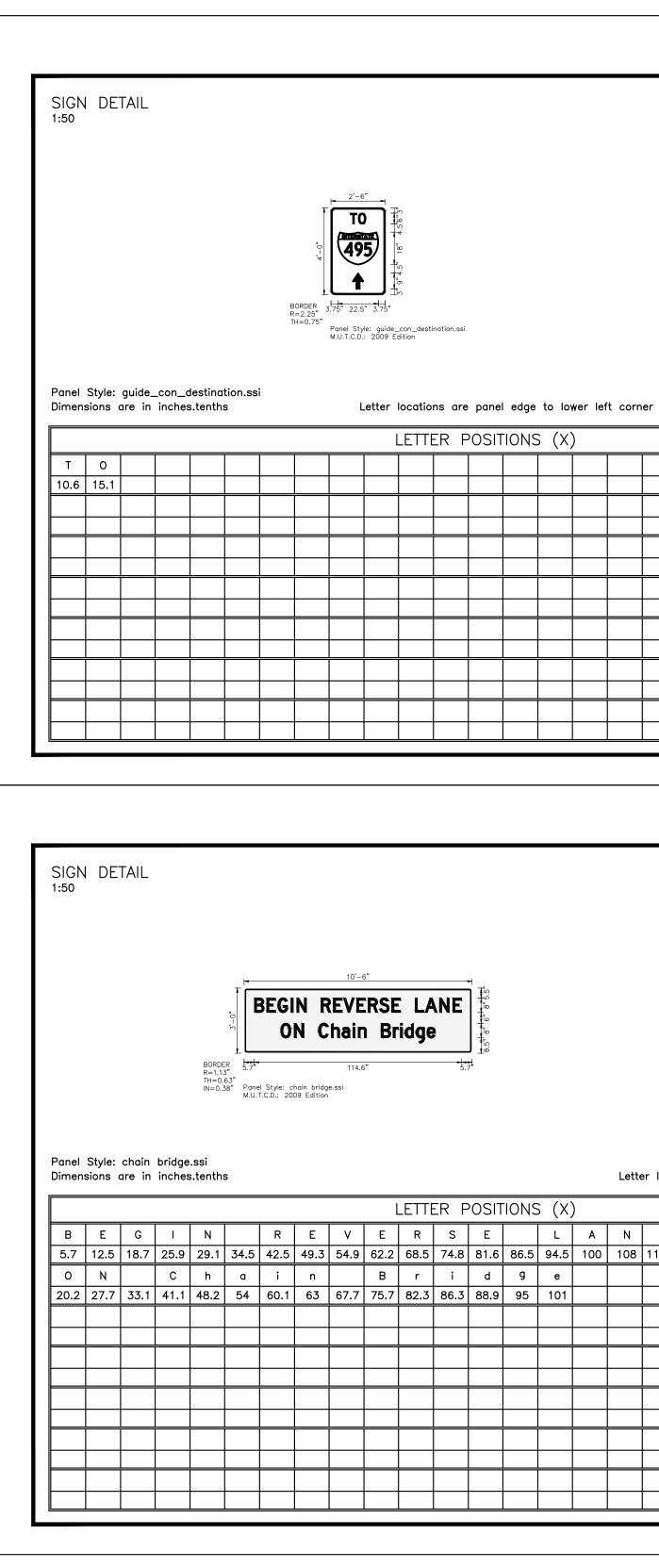




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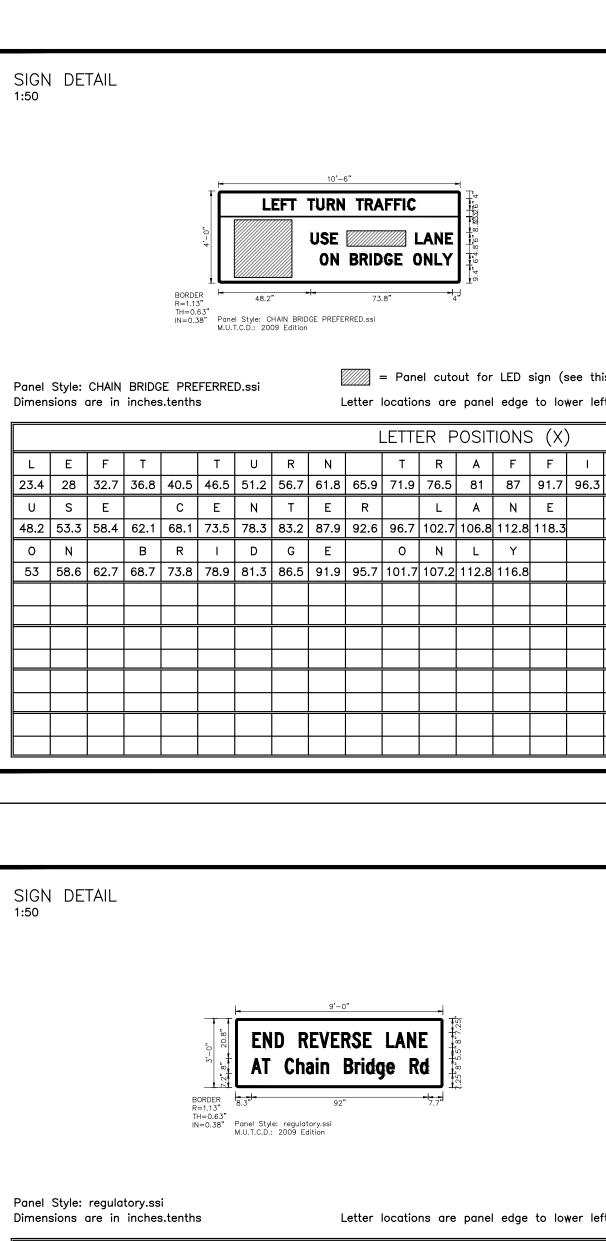


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	DEPARTMENT OF ENVIRONMENTAL SERVICES Signal Systems and ITS Traffic Engineering and Operations Bureau 2100 Clarendon Boulevard, Suite 900 Arlington, VA 22201 Phone: 703.228.3629 Fax: 703.228.3606
6" DIA SCH. 40 STEEL PIPE WITH BOLLARD COVERS FILLED WITH A-3 CONCRETE	Kimley » Horn Kimley-Horn and Associates, Inc. © 2018 Killey-Horn AND Associates, INC. 11400 Commerce Park Drive, Suite 400 Reston Virginia 20191 Phone: 703–674–1300 Fax: 703–674–1350
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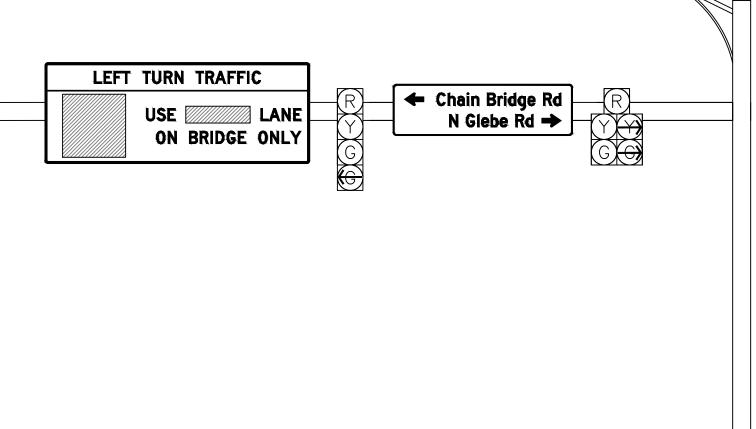
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				Lic. No. 039584 09/18/2019 FINAL DESIGN PLANS Approvals Date
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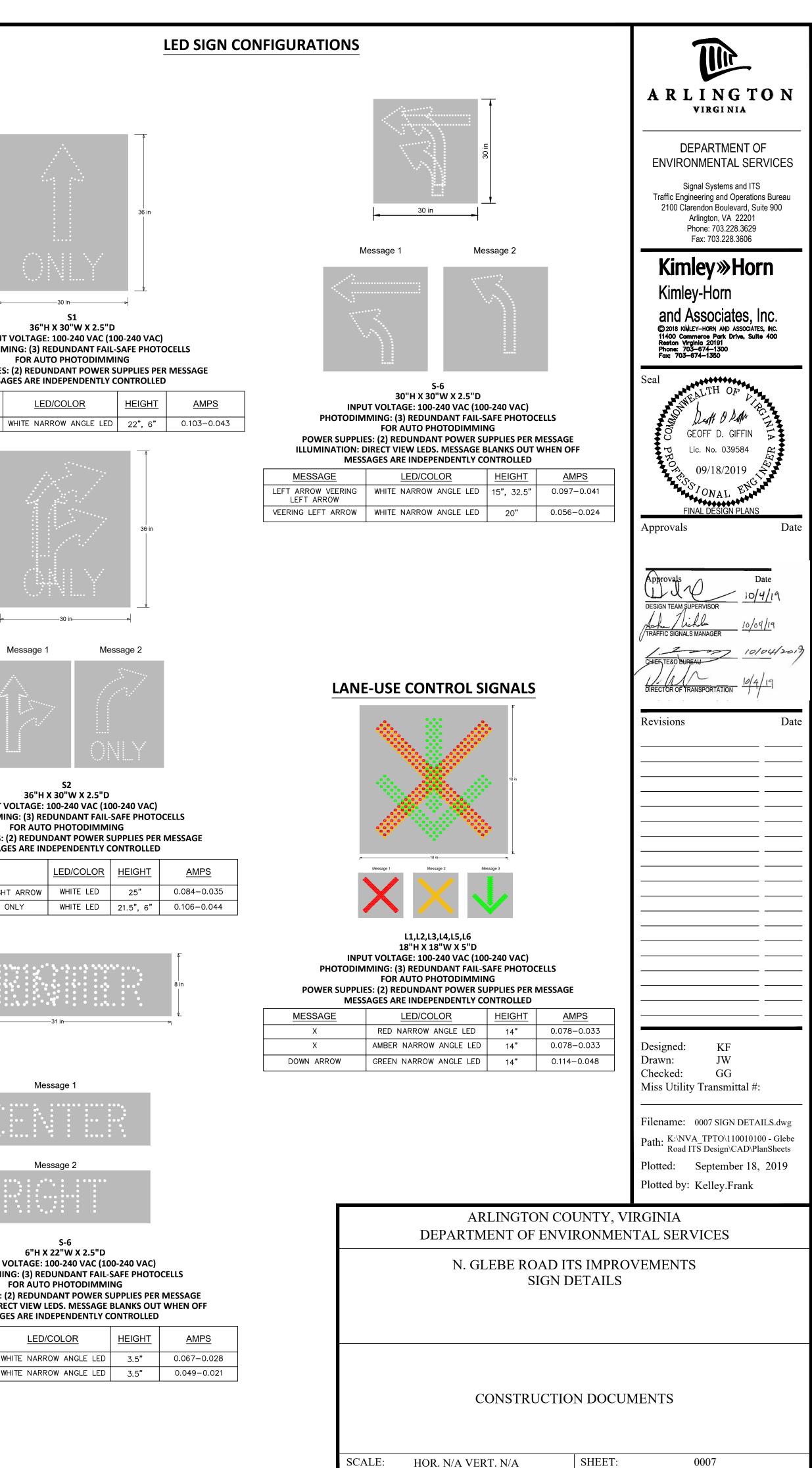
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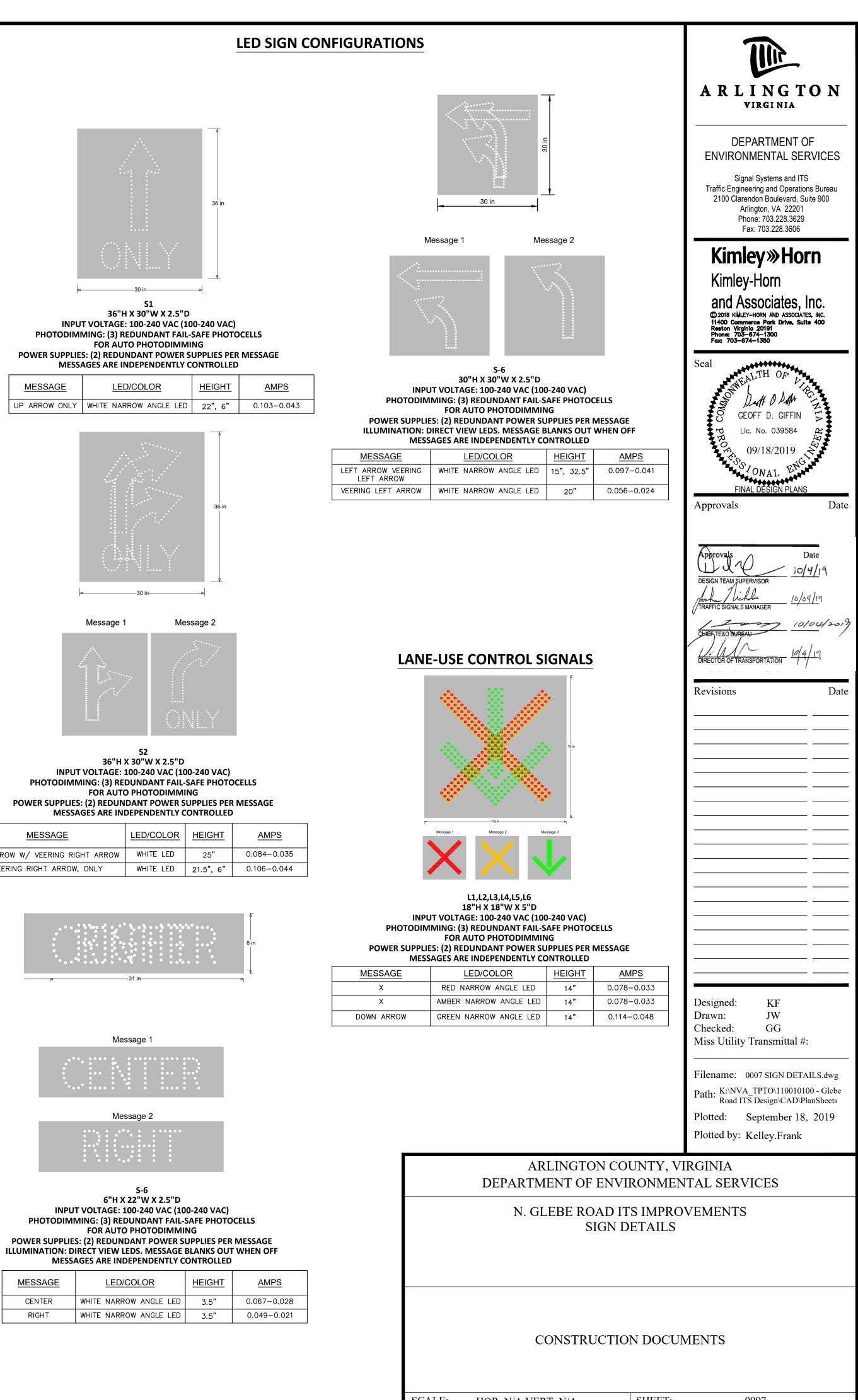
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36"H X 30"W X 2.5"D FOR AUTO PHOTODIMMING

MESSAGE	LED/COLOR	<u>HEIGHT</u>		
UP ARROW ONLY	WHITE NARROW ANGLE LED	22", 6"		

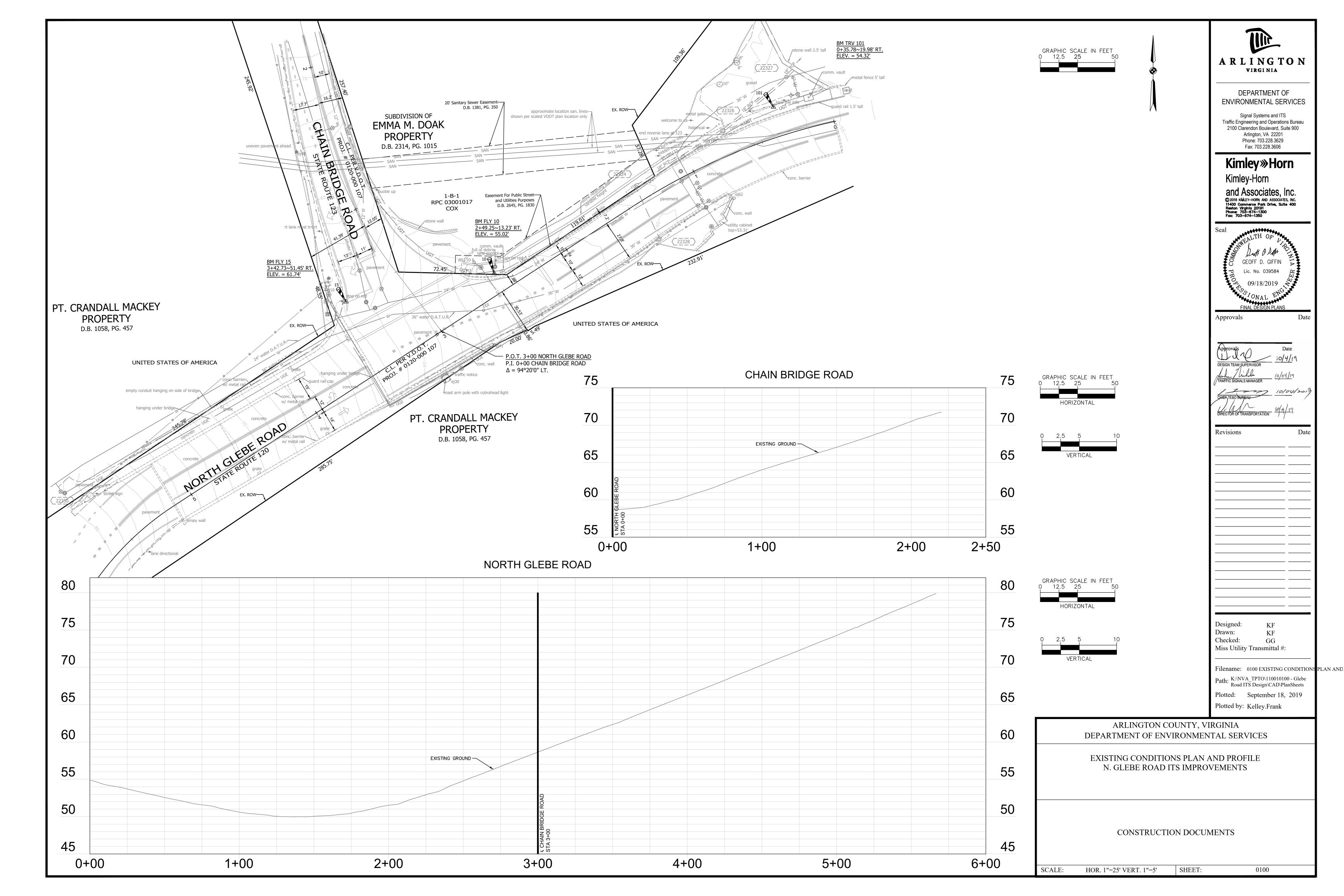


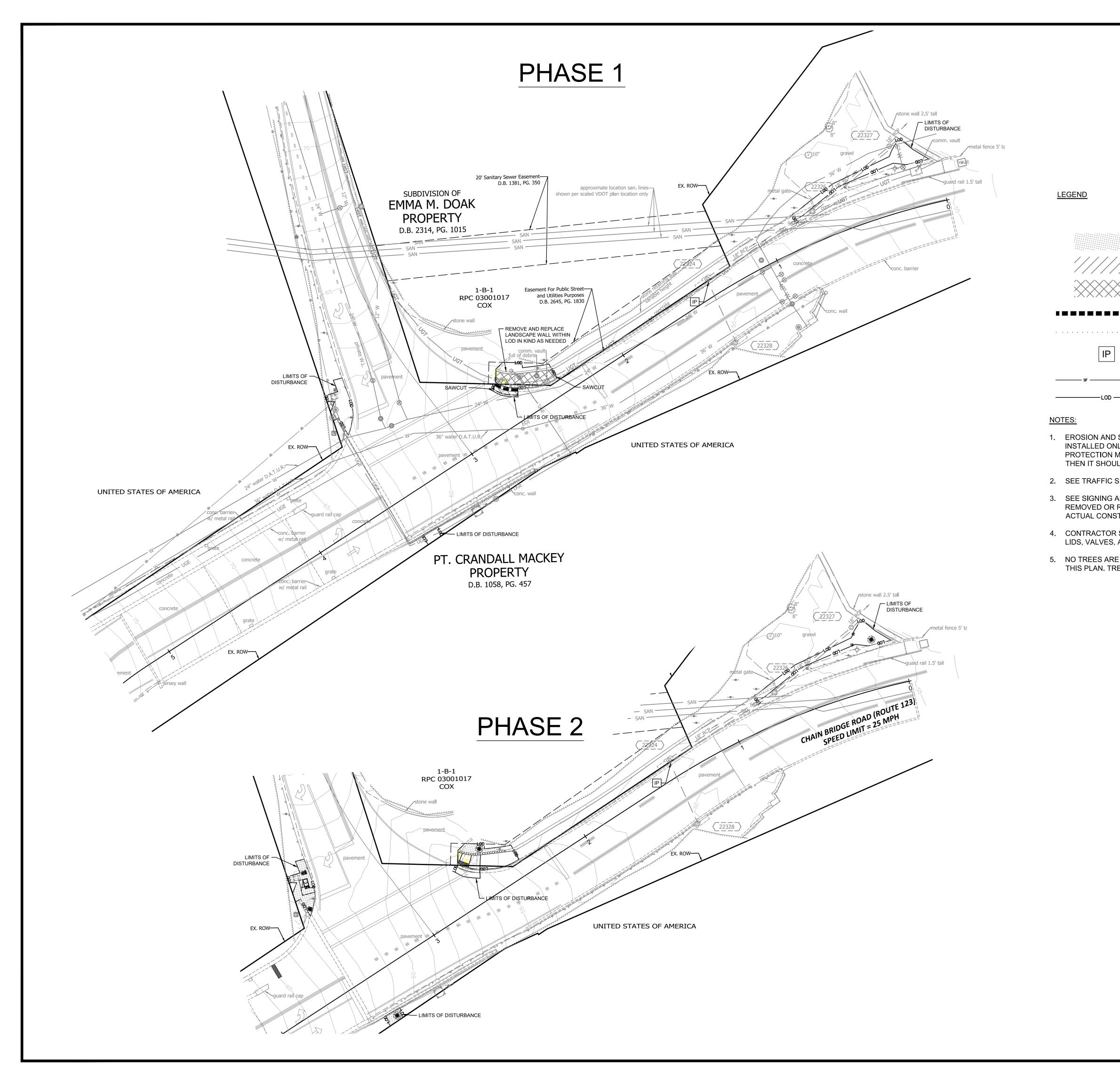
MESSAGE	LED/COLOR	<u>HEIGHT</u>		
UP ARROW W/ VEERING RIGHT ARROW	WHITE LED	25"		
VEERING RIGHT ARROW, ONLY	WHITE LED	21.5", 6"		



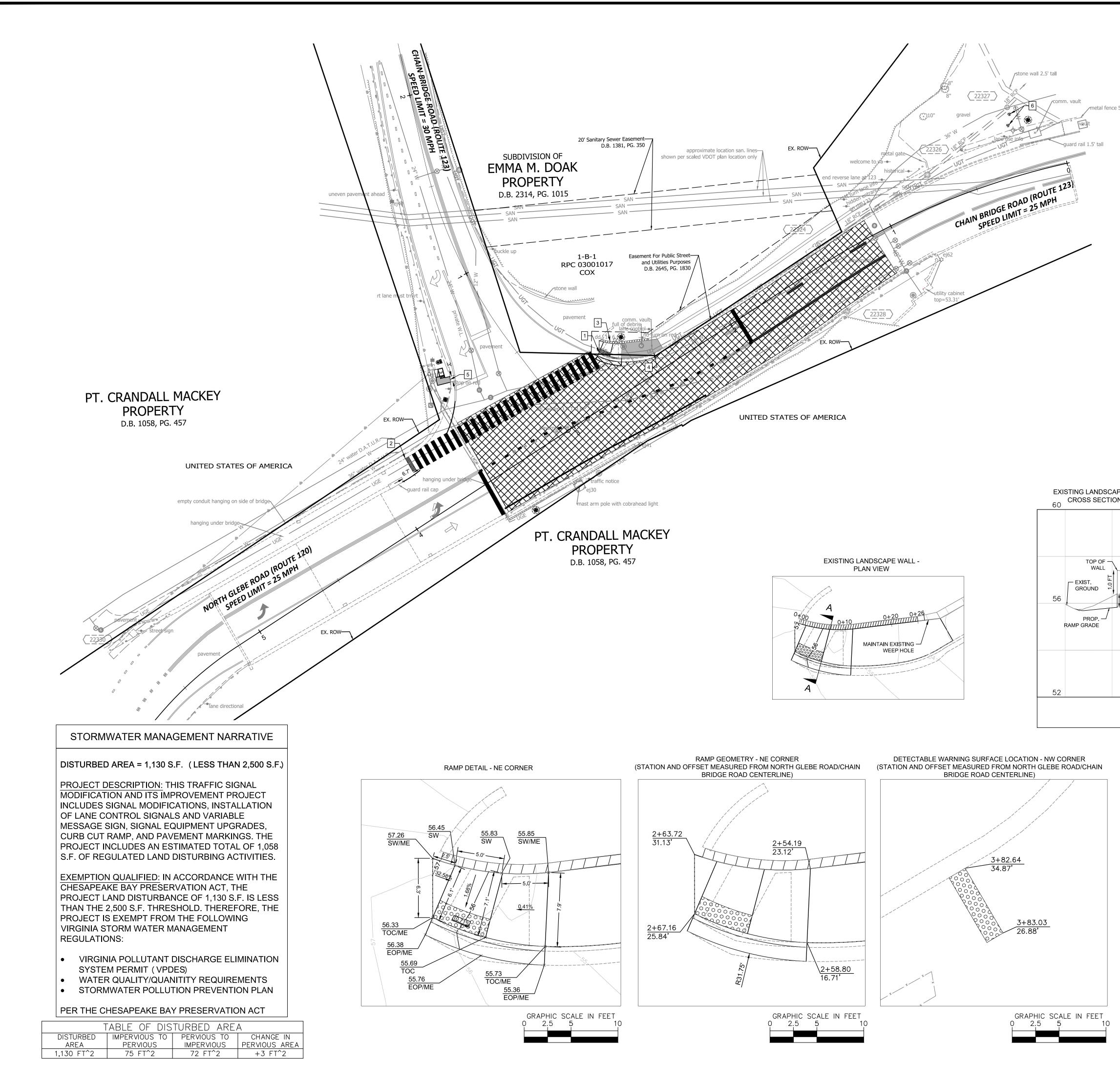
MESSAGE

ELEVATION VIEW CHAIN BRIDGE ROAD SOUTHBOUND

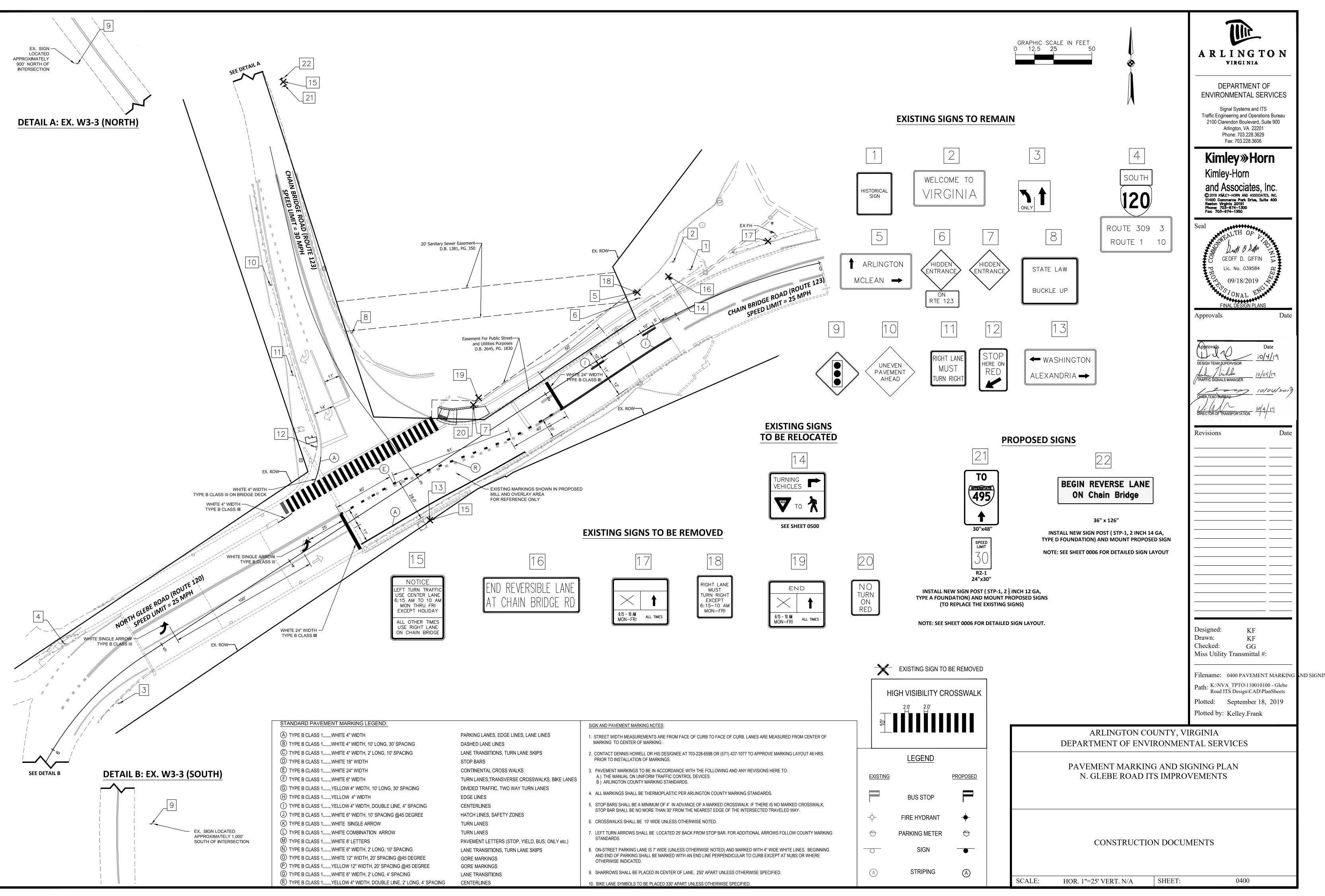




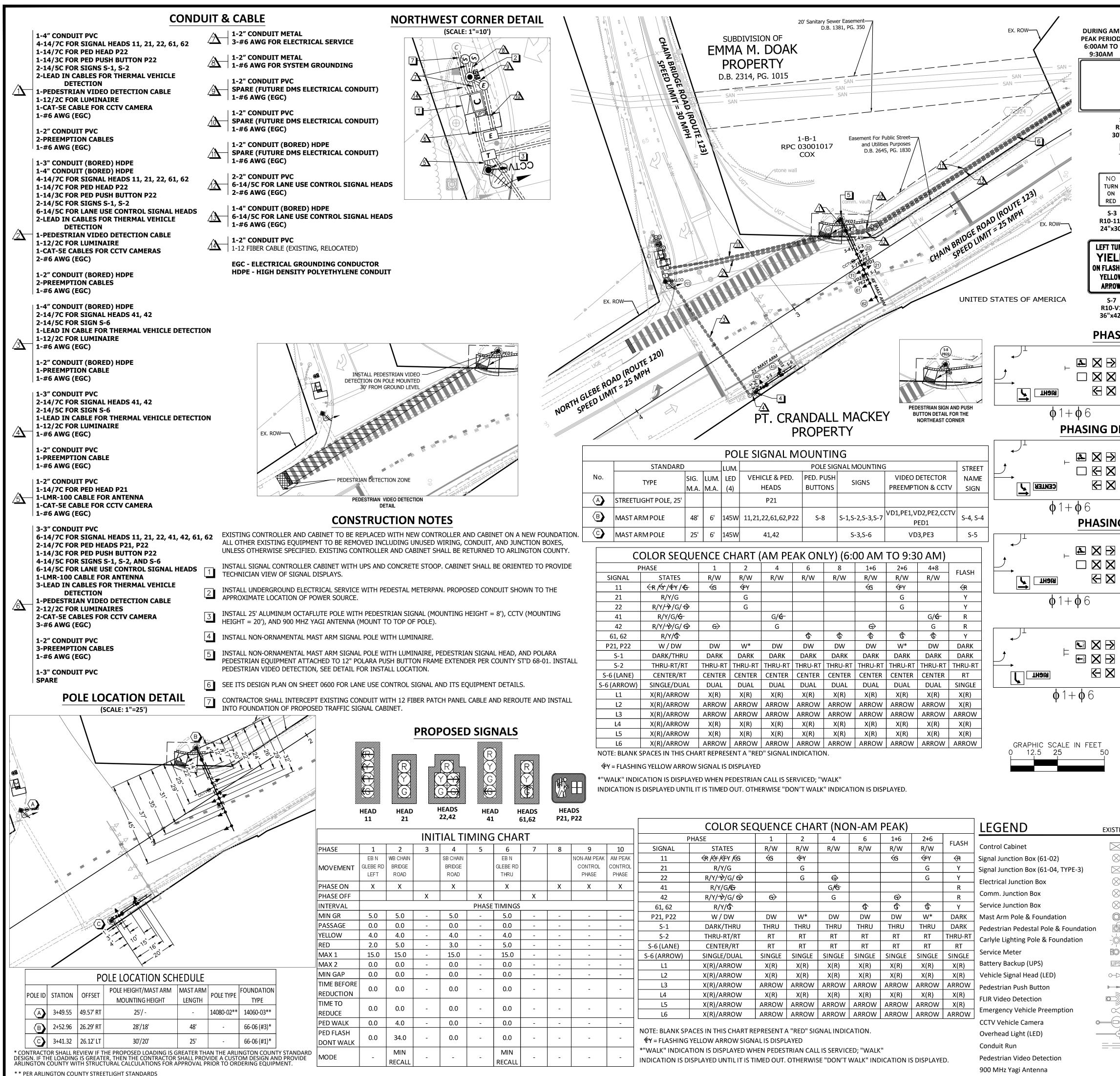
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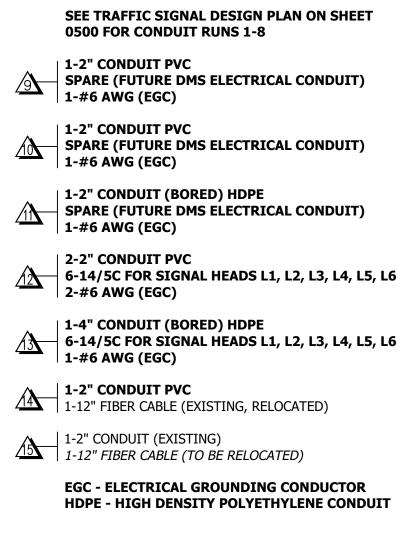
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		SIGN AND PAVEMENT MARKING NOTES:		10	
	PARKING LANES, EDGE LINES, LANE LINES DASHED LANE LINES	1. STREET WIDTH MEASUREMENTS ARE FROM FACE OF CURB TO FACE OF CURB. LANES ARE MEASURED FROM CENTER OF MARKING .			
	LANE TRANSITIONS, TURN LANE SKIPS STOP BARS	 CONTACT DENNIS HOWELL OR HIS DESIGNEE AT 703-228-6598 OR (571) 437-1077 TO APPROVE MARKING LAYOUT 48 HRS. PRIOR TO INSTALLATION OF MARKINGS. 	_		LEC
	CONTINENTAL CROSS WALKS TURN LANES, TRANSVERSE CROSSWALKS, BIKE LANES	 PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING AND ANY REVISIONS HERE TO: A.) THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. B.) ARLINGTON COUNTY MARKING STANDARDS. 	<u>E</u>	<u>XISTING</u>	
	DIVIDED TRAFFIC, TWO WAY TURN LANES EDGE LINES	4. ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS.	F		BUS
	CENTERLINES HATCH LINES, SAFETY ZONES	 STOP BARS SHALL BE A MINIMUM OF 4' IN ADVANCE OF A MARKED CROSSWALK. IF THERE IS NO MARKED CROSSWALK, STOP BAR SHALL BE NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTED TRAVELED WAY. 	-4	~	
	TURN LANES	6. CROSSWALKS SHALL BE 10' WIDE UNLESS OTHERWISE NOTED.		~	FIRE H
	TURN LANES PAVEMENT LETTERS (STOP, YIELD, BUS, ONLY etc.)	 LEFT TURN ARROWS SHALL BE LOCATED 25' BACK FROM STOP BAR. FOR ADDITIONAL ARROWS FOLLOW COUNTY MARKING STANDARDS. 	Č	5	PARKIN
	LANE TRANSITIONS, TURN LANE SKIPS GORE MARKINGS GORE MARKINGS	 ON-STREET PARKING LANE IS 7' WIDE (UNLESS OTHERWISE NOTED) AND MARKED WITH 4" WIDE WHITE LINES. BEGINNING AND END OF PARKING SHALL BE MARKED WITH AN END LINE PERPENDICULAR TO CURB EXCEPT AT NUBS OR WHERE OTHERWISE INDICATED. 		5	
	LANE TRANSITIONS	9. SHARROWS SHALL BE PLACED IN CENTER OF LANE, 250' APART UNLESS OTHERWISE SPECIFIED.	0	A	ST
CING	CENTERLINES	10. BIKE LANE SYMBOLS TO BE PLACED 330' APART UNLESS OTHERWISE SPECIFIED.			



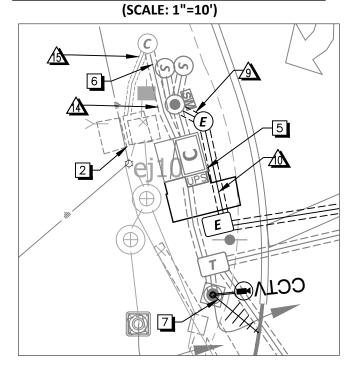
* * PER ARLINGTON COUNTY STREETLIGHT STANDARDS

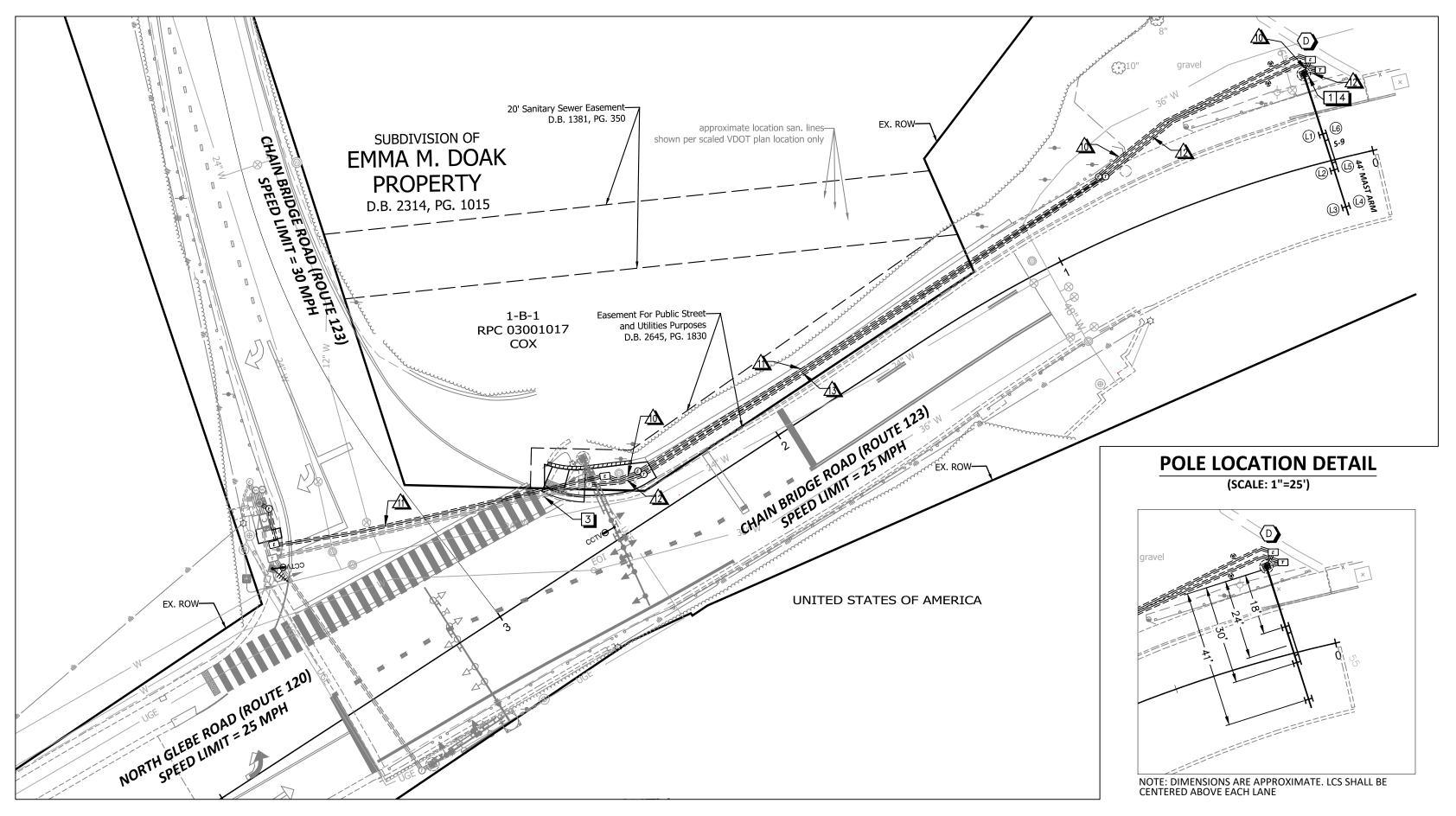
PROPOSED LED SIGNS	EXISTING SIGN TO BE	
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D NON-AM 6:00AM TO PEAK PERIOD * 9:30AM	NON-AM PEAK PERIOD *	A R L I N G T O N VIRGI NIA
		DEPARTMENT OF
S-1	S-2 S-2 S-2 S-2 S-9 SEE SIGN 14	ENVIRONMENTAL SERVICES
R3-5a R3- 0"x36" 30	6 R3-5 ON SHEET 0400	Signal Systems and ITS Traffic Engineering and Operations Bureau 2100 Clarendon Boulevard, Suite 900
PROPOSED SIGNS	PROPOSED COMBINATION STATIC AND LED SIGN	Arlington, VA 22201 Phone: 703.228.3629
Chain Bridge I		Fax: 703.228.3606
S-4 90"x18"	LEFT TURN TRAFFIC ** USE CENTER LANE CENTER	Kimley »Horn
^{1A} ^{30"} ← Chain Bridge	** STATIC	Kimley-Horn and Associates, Inc.
		© 2018 KIMLEY–HORN AND ASSOCIATES, INC. 11400 Commerce Park Drive, Suite 400 Reston Virginia 20191
D S -5 108"x30"		Phone: 703-674-1300 Fax: 703-674-1350
HING DW W	ON BRIDGE ONLY	Seal
	STATIC LED D7 FOR LED SIGN DESIGN AND SPECIFICATIONS	Deft O Path C
2" **NOTE: SEE SHEE	TS 0006-0007 FOR DETAILED SIGN LAYOUT	C GEOFF D. GIFFIN C Lic. No. 039584
		09/18/2019
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G DIAGRAM (TRANSITIO	N TO NON-AM PEAK)	Revisions Date
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	TON WALK MESSAGE S-8	Designed: AS
PB22	P "CHAIN BRIDGE ROAD, WALK SIGN IS ON TO CROSS CHAIN BRIDGE ROAD." R10-3E(L) 9"X15" ESTRIAN PUSHBUTTON SIGN SHALL BE MOUNTED Image: Comparison of the second	Drawn: AS Checked: GG
* ACCE	ABOVE PEDESTRIAN PUSHBUTTON. SSIBLE PUSHBUTTON SYSTEM SHALL BE A SYSTEM CONFORMING TO ARLINGTON	Miss Utility Transmittal #:
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CONDUIT & CABLE

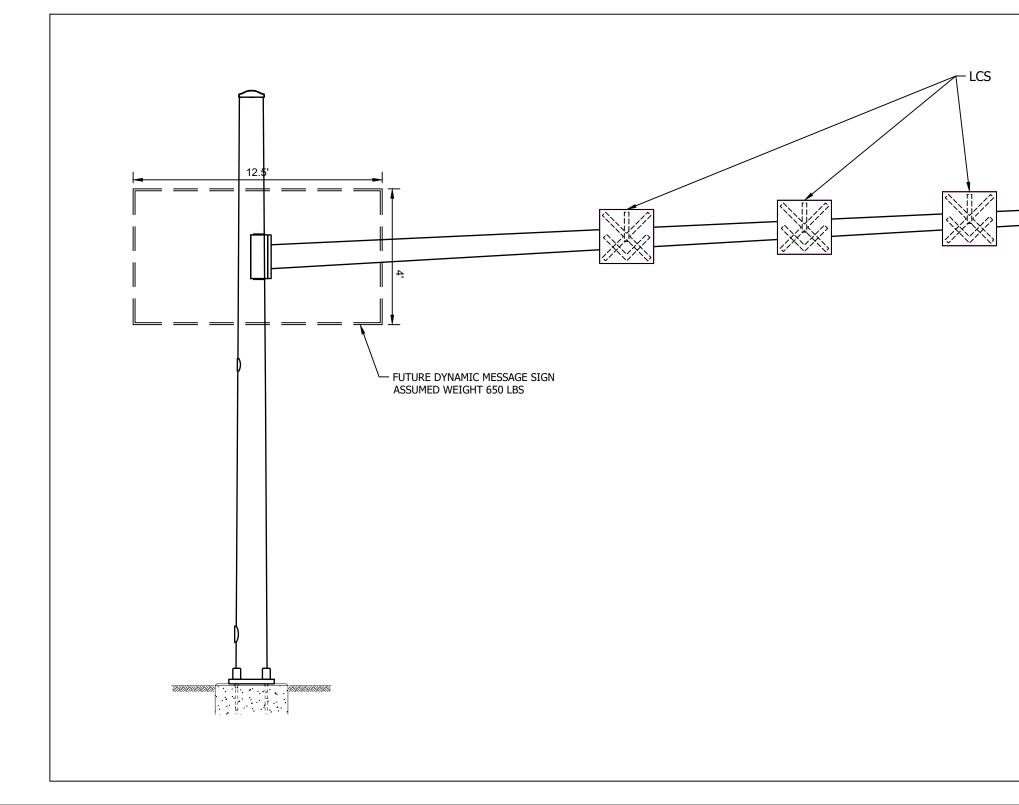


NORTHWEST CORNER DETAIL





DETAIL A: LCS POLE DETAIL NOT TO SCALE



	POLE LOCATION SCHEDULE									
POLE ID	STATION	OFFSET	UMC DESIGN NUMBER	MAST ARM LENGTH	POLE TYPE	FOUNDATION TYPE				
D	0+14.37	27.32' RT	-	44'	-	66-06*				

STANDARD DESIGN. IF THE LOADING IS GREATER, THEN THE CONTRACTOR SHALL REVIEW IF THE PROPOSED LOADING IS GREATER, THEN THE CONTRACTOR SHALL PROVIDE A CUSTOM DESIGN AND PROVIDE ARLINGTON COUNTY WITH STRUCTURAL CALCULATIONS FOR APPROVAL PRIOR TO ORDERING EQUIPMENT.

CONSTRUCTION NOTES

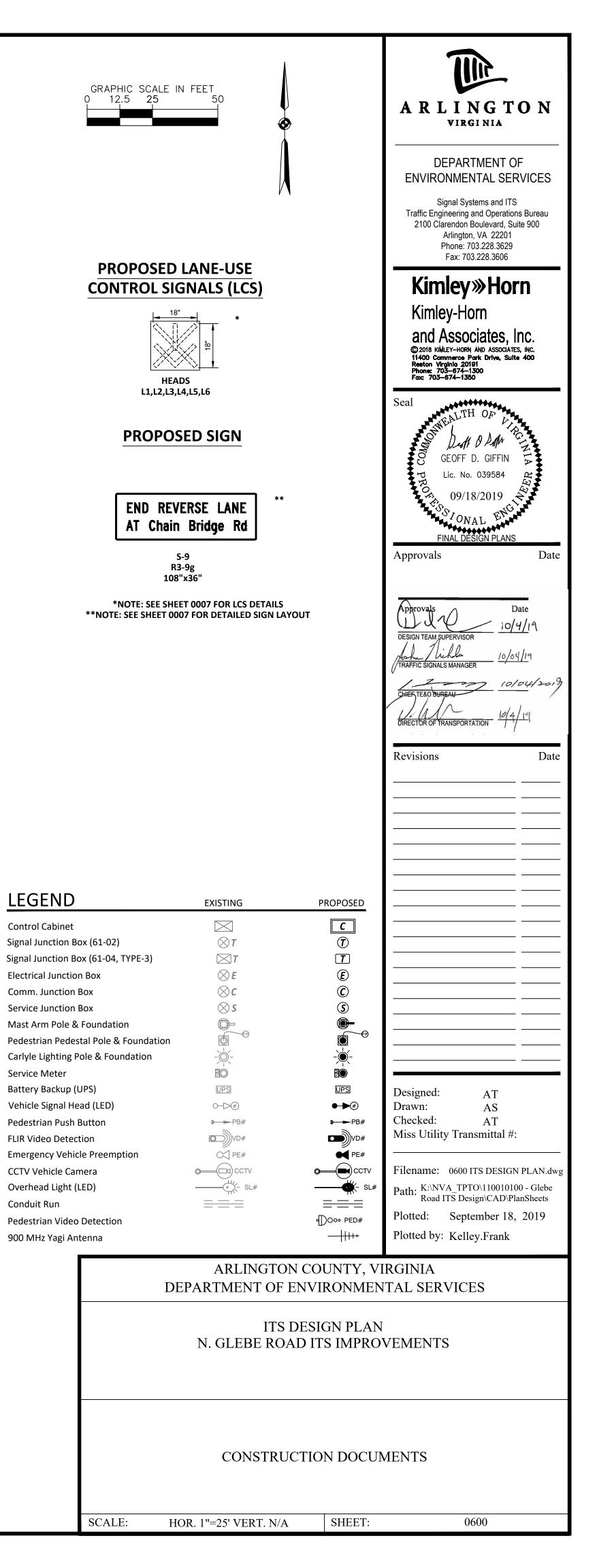
- 1 INSTALL NON-ORNAMENTAL SIGNAL MAST-ARM POLE. SEE <u>DETAIL A</u> THIS SHEET.
- 2 CONTRACTOR SHALL REMOVE ALL COMMUNICATION EQUIPMENT TO INCLUDE: 12 FIBER PATCH PANEL AND FIBER CABLE, EHTERNET SWITCH AND JUMPER CABLES FROM EXISTING TRAFFIC SIGNAL CABINET AND RELOCATE TO PROPOSED CONTROLLER CABINET.
- 3 SEE TRAFFIC SIGNAL DESIGN PLAN ON SHEET 0500 FOR ITS CABLE AND CONDUIT WITHIN TRAFFIC SIGNAL SYSTEM.

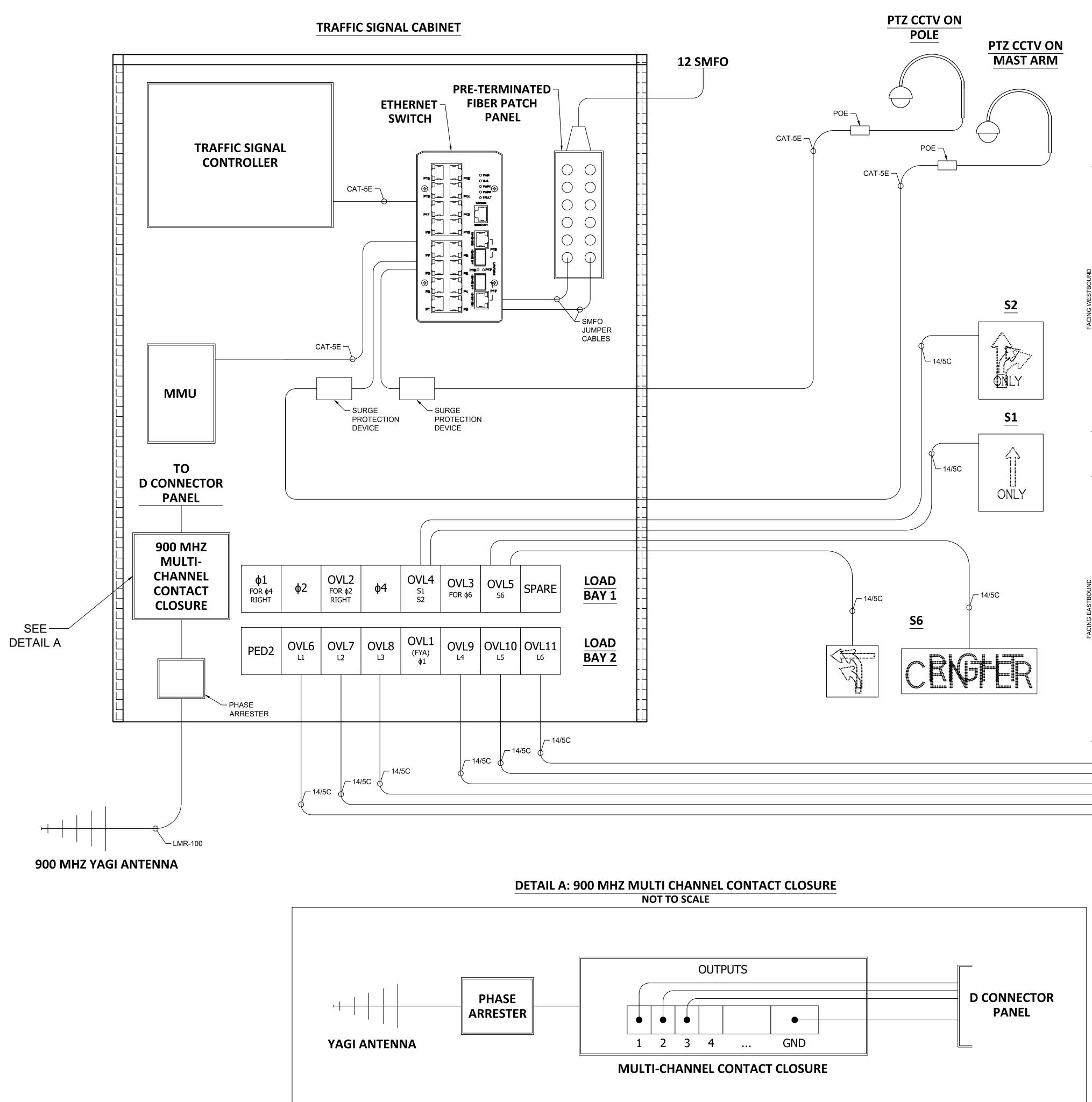
4 LCS POLE SHALL BE DESIGNED TO ACCOMMODATE FUTURE DYNAMIC MESSAGE SIGN MOUNTED ON POLE PER DETAIL: A. ASSUMED SIGN SIZE: 12.5' X 4', ASSUMED SIGN WEIGHT: 650 LBS.

- 5 CONTRACTOR SHALL INSTALL 12 FIBER PATCH PANEL, ETHERNET SWITCH AND JUMPER CABLES IN PROPOSED TRAFFIC SIGNAL CABINET.
- 6 CONTRACTOR SHALL INTERCEPT EXISTING CONDUIT WITH 12 FIBER PATCH PANEL CABLE AND REROUTE AND INSTALL WITHIN PROPOSED TRAFFIC SIGNAL CABINET.
- T INSTALL 900 MHZ YAGI ANTENNA ON TOP OF POLE.

GENERAL NOTES

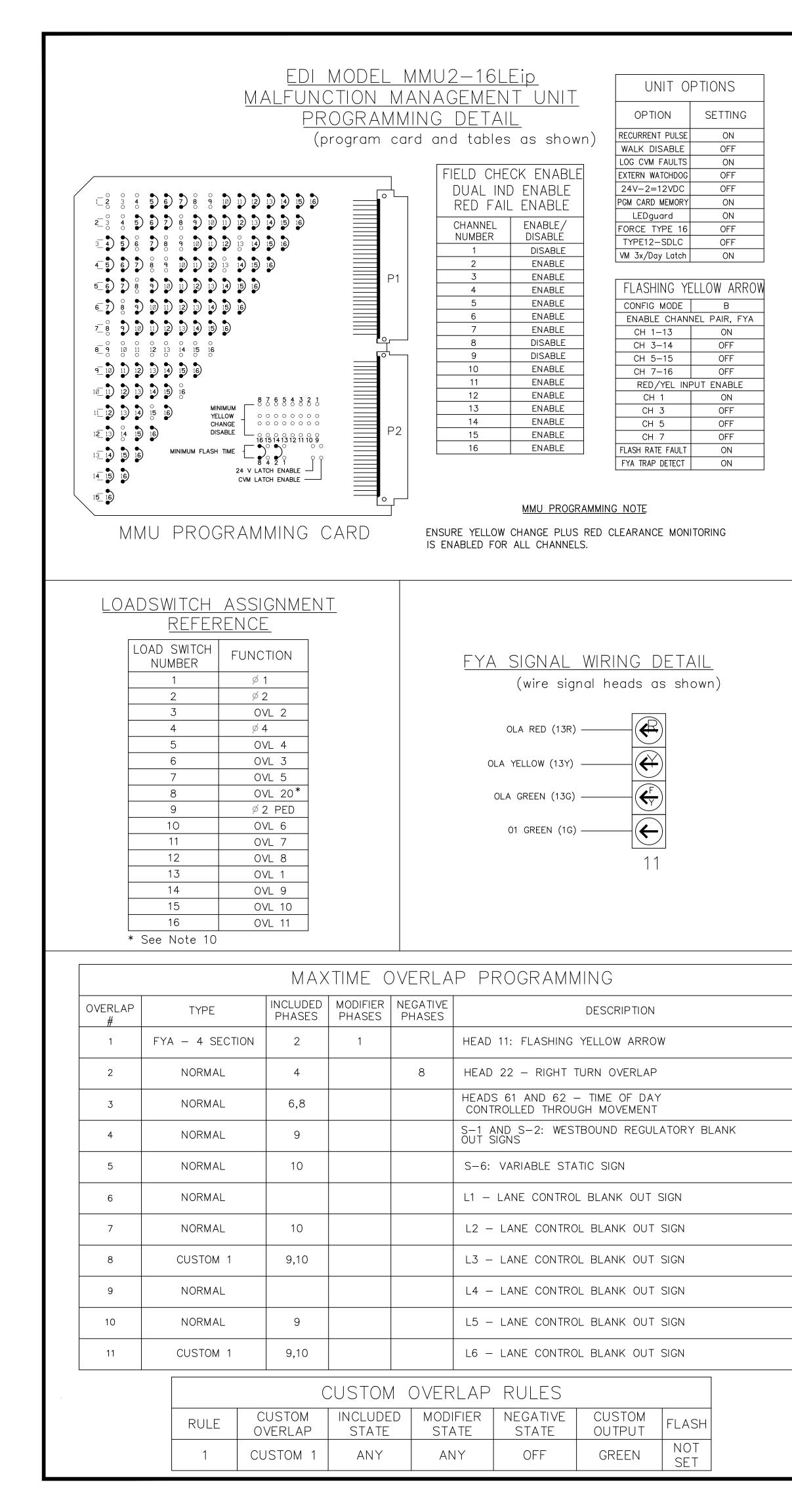
- CONTRACTOR SHALL SUBMIT SPLICE ENCLOSURES FOR ENGINEER APPROVAL. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CUTTING OR DISCONNECTING ANY FIBER CABLE. CONTRACTOR SHALL NOT PROCEED
- WITH FIBER CUTTING UNLESS ENGINEER IS ON-SITE.
- 3. CONTRACTOR SHALL RE-SPLICE ALL FIBERS TO THE SAME FIBERS AND BUFFER TUBE AS THE EXISTING CONDITION. 4. CONTRACTOR SHALL PERFORM BI-DIRECTIONAL OTDR TESTING ON THE 12 FIBER CABLE ENTERING THE PROPOSED TRAFFIC SIGNAL
- CABINET FROM THE TERMINATION POINTS. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO GAIN ACCESS TO THE NEAREST FIBER TERMINATION POINTS FOR THE ITS 144 FIBER OPTIC CABLE TO PERFORM TESTING.
- 5. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH BI-DIRECTIONAL OTDR TEST RESULTS IN PDF FORMAT FOR APPROVAL. NO WORK SHALL BE ACCEPTED IF THE FOLLOWING REQUIREMENTS ARE NOT MET:
 - EACH FUSION SPLICE LOSS DOES NOT EXCEED 0.05 DB, BI-DIRECTIONALLY AVERAGED -- CABLE ATTENUATION MAY NOT EXCEED 0.30 DB/KM AT 1550 NM AND 0.40 DB/KM AT 1310 NM.
- IF ANY OF THE ABOVE CONDITIONS ARE NOT MET, THEN TAKE APPROVED CORRECTIVE ACTION, INCLUDING REMAKING SPLICES OR REPLACING COMPLETE SEGMENTS OF FIBER OPTIC CABLE, AS REQUIRED. CORRECTIVE ACTION WILL BE AT NO ADDITIONAL COST TO THE COUNTY.
- 6. THE CONTRACTOR SHALL NOT CUT OR DAMAGE EXISTING FIBER OPTIC CABLES OR FIBER OPTIC SPLICE ENCLOSURES. WHEN HANDLING THE EXISTING FIBER OPTIC CABLES, THE CONTRACTOR SHALL PROTECT THE CABLES FROM EXCEEDING THE MINIMUM BEND RADIUS OF 14 INCHES.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIR AND COSTS ASSOCIATED WITH DAMAGED FIBER OPTIC CABLES OR SPLICE ENCLOSURES DUE TO CONSTRUCTION ACTIVITIES.
- 8. ALL CABLING AND SPLICE ENCLOSURES IN JUNCTION BOXES SHALL BE NEATLY ARRANGED.
- 9. IF EXISTING FACTORY-TERMINATED PATCH PANEL IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE AT NO COST TO THE COUNTY.





COMMUNICATION BLOCK DIAGRAM

				A R L I NG TO N VIRGI NIA	
				DEPARTMENT OF ENVIRONMENTAL SERVICES Signal Systems and ITS Traffic Engineering and Operations Bureau 2100 Clarendon Boulevard, Suite 900 Arlington, VA 22201 Phone: 703.228.3629	
SIGNS (LCS) L1				Fax: 703.228.3606	
				Kimley-Horn and Associates, Inc. © 2018 KIMLEY-HORN AND ASSOCIATES, INC. 11400 Commerce Park Drive, Suite 400 Reston Virginia 20191 Phone: 703-674-1300 Fax: 703-674-1350	
				Seal Seal	
<u>L3</u>				FINAL DESIGN PLANS Approvals Date	
L4				Approvals Date DESIGN TEAM SUPERVISOR Jo/4/19 Jo/04/19 TRAFFIC SIGNALS MANAGER	
				CHIEF TERO BUREAU DIRECTOR OF TRANSPORTATION	
				Revisions Date	
L5					
<u>L6</u>					
				Designed: NM Drawn: KF Checked: GG Miss Utility Transmittal #:	
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		COMMUNICATION A DI N. GLEBE ROAD	AGRAM		
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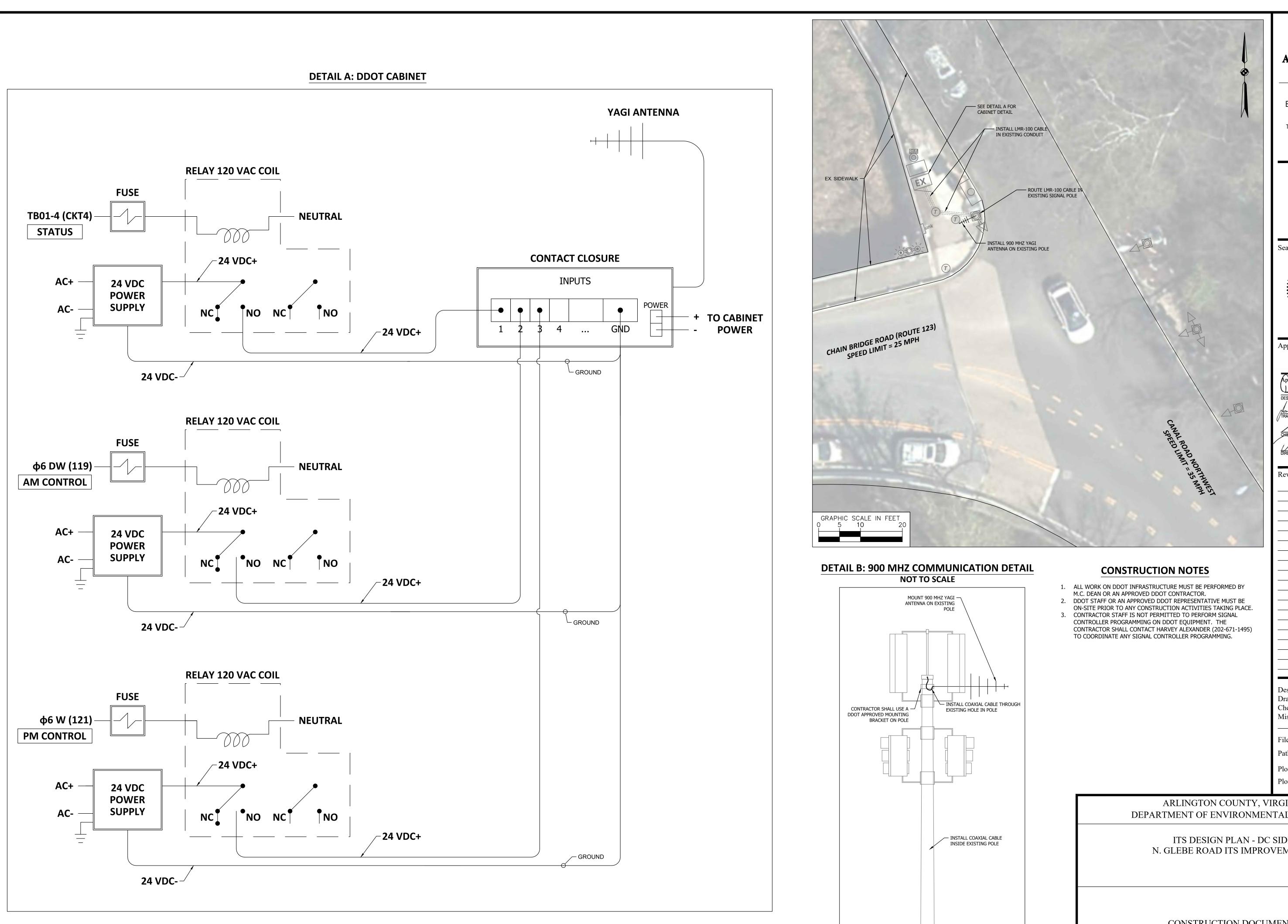
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CONSTRUCTION DOCUMENTS

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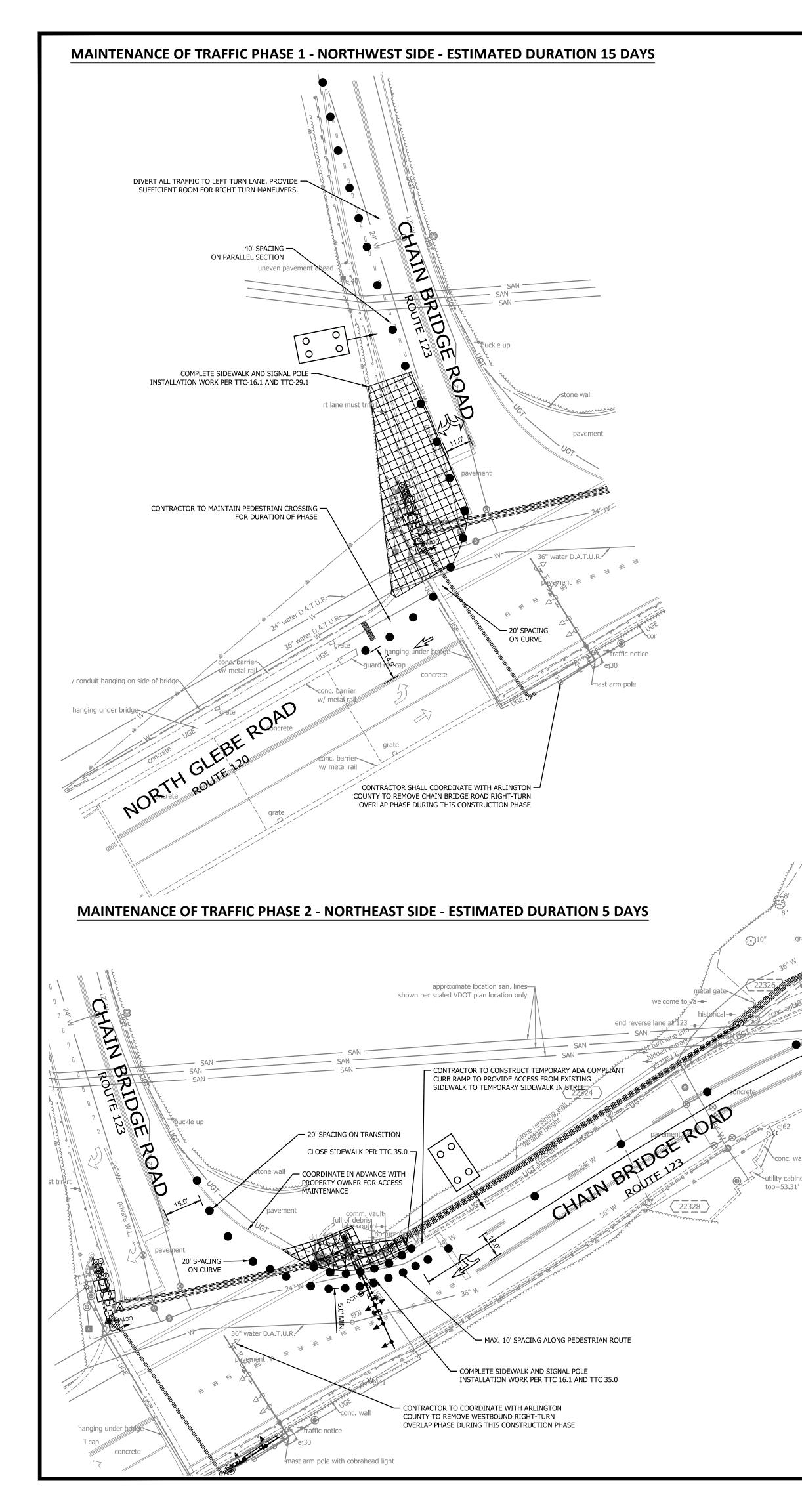


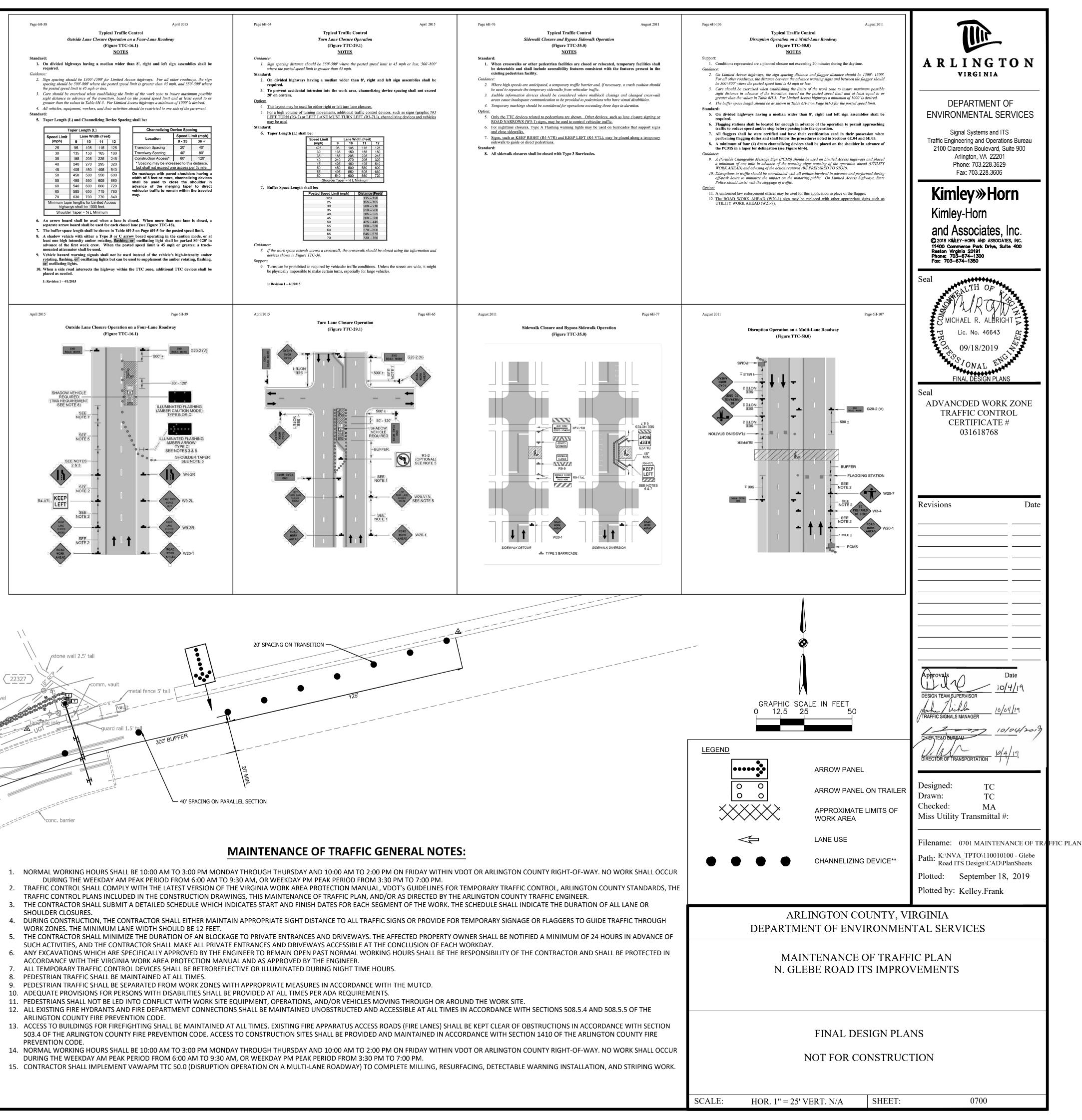
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DEPARTMENT OF ENVIRONMENTAL SERVICES	
Signal Systems and ITS Traffic Engineering and Operations Bureau 2100 Clarendon Boulevard, Suite 900 Arlington, VA 22201 Phone: 703.228.3629	
Fax: 703.228.3606	
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and Associates, Inc. © 2018 KIMLEY-HORN AND ASSOCIATES, INC.	
11400 Commerce Park Drive, Suite 400 Reston Virginia 20191 Phone: 703—674—1300 Fax: 703—674—1350	
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Lic. No. 039584 09/18/2019 FINAL DESIGN PLANS Approvals Date	
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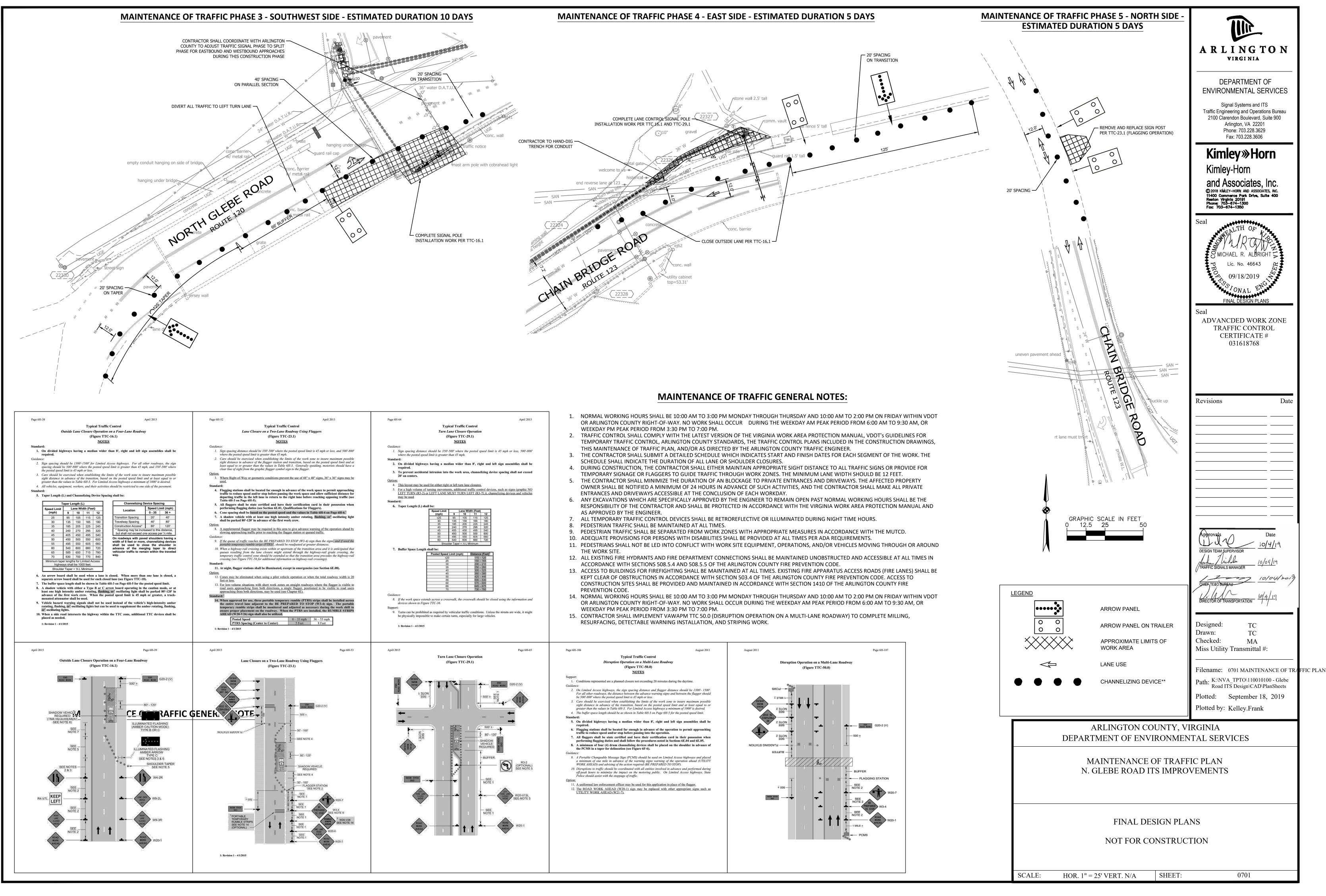
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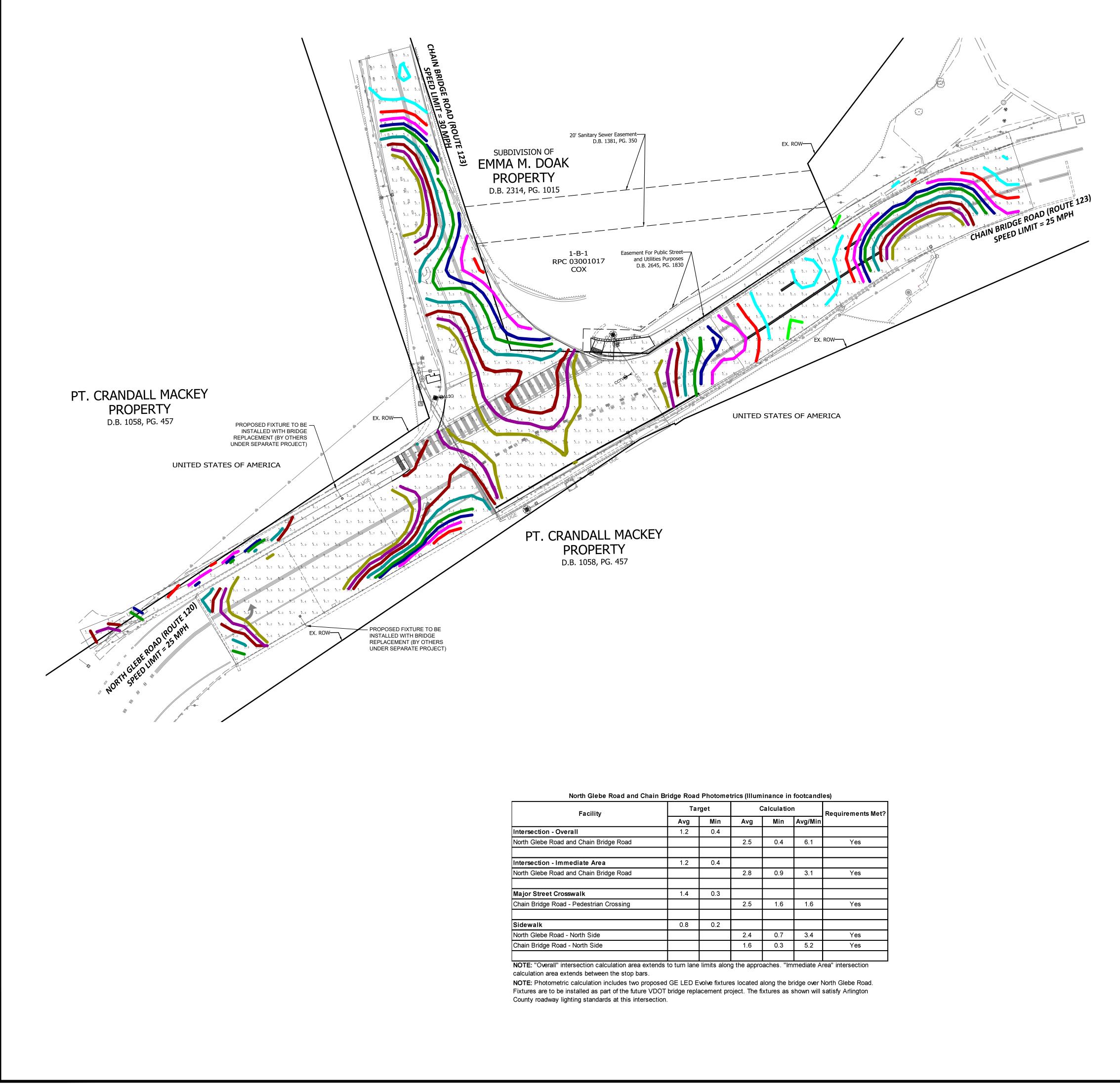
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Facility	Таг	rget	c	Calculation	Requirements Met?	
.	Avg	Min	Avg	Min	Avg/Min	
ction - Overall	1.2	0.4				
Glebe Road and Chain Bridge Road			2.5	0.4	6.1	Yes
ction - Immediate Area	1.2	0.4				
Glebe Road and Chain Bridge Road			2.8	0.9	3.1	Yes
Street Crosswalk	1.4	0.3				
Bridge Road - Pedestrian Crossing			2.5	1.6	1.6	Yes
alk	0.8	0.2				
Glebe Road - North Side			2.4	0.7	3.4	Yes
Bridge Road - North Side			1.6	0.3	5.2	Yes

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PHOTOM	FTRIC LEGEND		Signal Systems and Traffic Engineering and Oper 2100 Clarendon Boulevard Arlington, VA 222 Phone: 703.228.360 Fax: 703.228.360	ations Bureau , Suite 900 01 29
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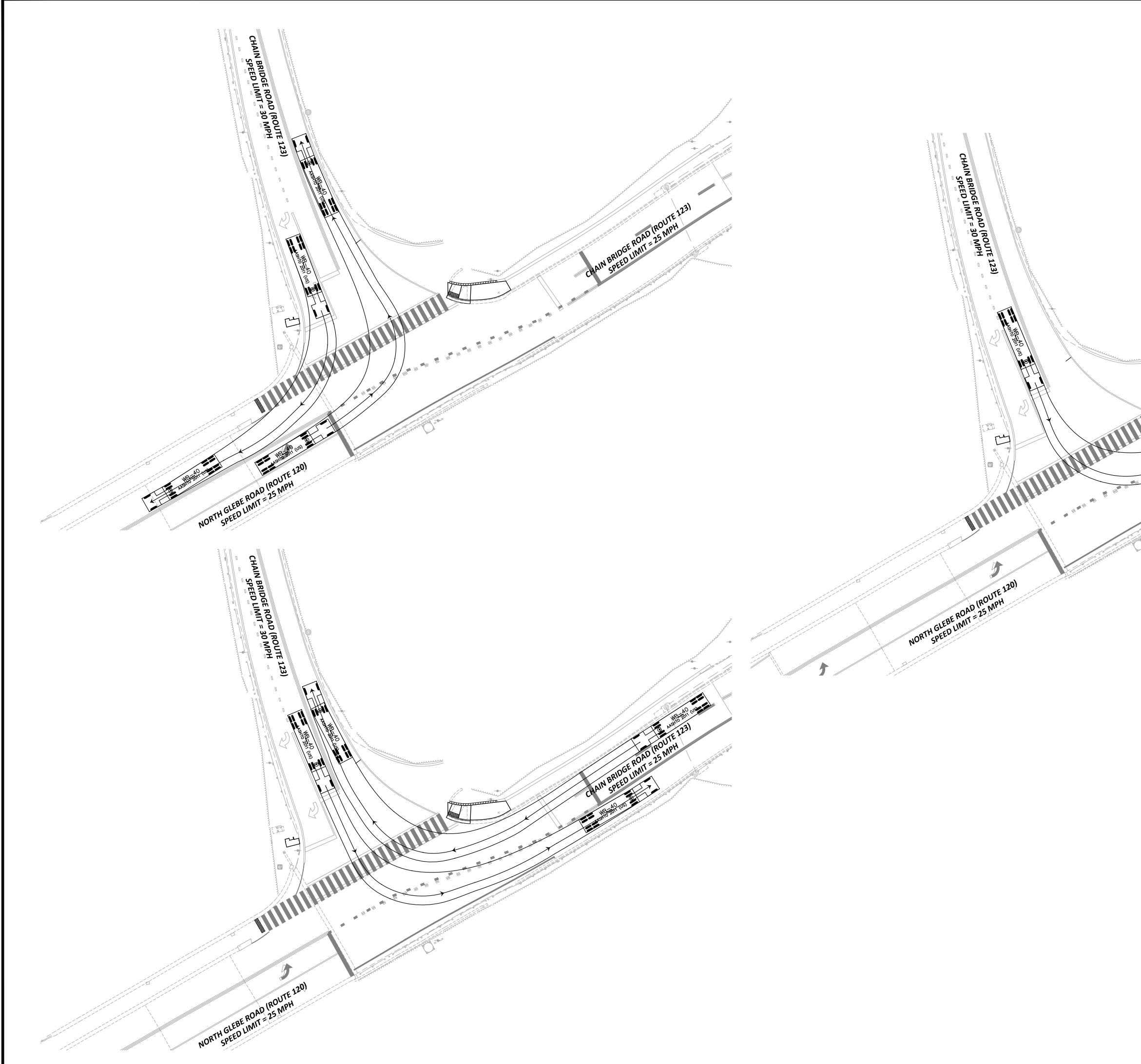
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Chungeneration of the second s	Kimley-Horn Kimley-Horn And Associates, Inc. PORTREACE Park Drive, Suite 400 Prome: 703-674-1300 Prome: 703-6
	Approvals Date JO/4/19 DESIGN TEAM SUPERVISOR JUL JUL J
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ARLINGTON COUNTY, VI DEPARTMENT OF ENVIRONMEN AUTOTURN - N GLEBE ROAD AND ROAD N. GLEBE ROAD ITS IMPROV	TAL SERVICES CHAIN BRIDGE
CONSTRUCTION DOCUN SCALE: HOR. 1"=25' VERT. N/A SHEET:	IENTS EXHIBIT B