

# Traffic Signal Design

## N. GLEBE RD. & 18TH STREET N. (ID #165)

Project Number: P26D

## Signal Notes

A. POLES AND FOUNDATIONS

- MAST ARM LENGTH IS TO BE AS SHOWN ON PLAN AND ALL MAST ARMS ARE TO BE FIELD 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.
- MAST ARM POLE FOUNDATIONS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS AND SPECIFICATIONS. ALL POLES SHALL HAVE A 6-BOLT PATTERN.
- AT THE COUNTY'S REQUEST, THE CONTRACTOR SHALL DIG TEST PITS TO VERIFY THAT SIGNAL POLE FOUNDATIONS WILL NOT CONFLICT WITH UNDERGROUND UTILITIES AND THAT FOUNDATIONS WILL FIT WITHIN THE EXISTING RIGHT-OF-WAY.
- SIGNAL POLES AND MAST ARMS SHALL BE ORNAMENTAL OR NON-ORNAMENTAL. POLES DESIGNATED AS ORNAMENTAL SHALL BE TRAFFIC STANDARD WITH 6' LUMINAIRE ARM (BY UNION METAL OR APPROVED SUBSTITUTE) UNLESS SPECIFIED OTHERWISE. COBRA LIGHTING SHALL BE LED.
- COBRA LIGHTING SHALL BE LED TYPE RFL-145W64LED4K-T-R2M-UNIV-DMG-PH8-RCD7-[USA-003]-BK. DECORATIVE POST-TOP LIGHTING SHALL BE HADCO DECORATIVE POST-TOP LUMINAIRE WITH RELUME LED KIT (UAZ XRE LED 57.69W).

B. CONTROLLER AND FOUNDATION

- NEW CONTROLLER CABINETS SHALL BE TS2, P TYPE WITH BATTERY BACKUP PER ARLINGTON COUNTY REQUIREMENTS.
- CONTROLLER SHALL BE INTELIGHT X-3 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 WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS 66-01, 66-02, AND 70-01.
- 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

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

D. DETECTORS

- 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 SPECIFIED.
- NEW OVERHEAD VIDEO DETECTION SHALL BE FLIR CAMERAS AND SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY REQUIREMENTS.
- 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.
- EVP TO BE MOUNTED ON VEHICLE HEAD MOUNTING BRACKET OR AS APPROVED BY THE ENGINEER IN THE FIELD.

E. CONDUIT, CONDUCTORS, AND ELECTRICAL

- 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, 61-03, AND 61-04.
- METER PEDESTAL SHALL BE INSTALLED PER 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 COMPANY FOR CONNECTION.
- CONDUIT SYSTEM SHALL BE ADDED TO CONNECT EXISTING COMMUNICATION CABLE PLANT TO THE NEW CONTROLLER CABINET LOCATION AS DIRECTED BY THE COUNTY ENGINEER.
- 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 OR BUSHING.
- 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.
- CONTRACTOR IS TO VERIFY DEPTHS OF UTILITIES AT PROPOSED CONDUIT CROSSINGS PRIOR TO EXCAVATING CONDUIT TRENCHES OR BORING.
- 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.
- 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 CABLES.
- NEW CCTV CAMERAS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY REQUIREMENTS. CONTRACTOR SHALL CONFIRM MOUNTING LOCATION OF CCTV CAMERA WITH COUNTY PRIOR TO INSTALLATION.
- CONTRACTOR TO VERIFY THE CONDUIT AND % FILL. IF THERE IS NOT ENOUGH CAPACITY IN CONDUIT, THEN THE CONTRACTOR SHALL INSTALL NEW CONDUIT.
- ALL PROPOSED CONDUIT SHALL HAVE #8 AWG (EGC) & TRACER WIRE FOR GROUNDING SYSTEM.
- REMOVE ALL EXISTING UNUSED RISERS, JUNCTION BOXES, AND CABLES.

F. SIGNS

- 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.
  - 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
- 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.
  - ALL EXISTING SIGNAL POLE FOUNDATIONS SHALL BE DEMOLISHED IN ACCORDANCE WITH ARLINGTON COUNTY SPECIFICATIONS.

H. COMMUNICATIONS

- 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.
- 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 QUALIFIED COUNTY FIBER CONTRACTORS.
- CONTACT ARLINGTON COUNTY DTS FOR FIBER OPTIC CABLE REMOVAL OR INSTALLATION AT LEAST 10 BUSINESS DAYS IN ADVANCE.
- 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.
- 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.
- 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.
- DO NOT SPLICE TRACER WIRE.

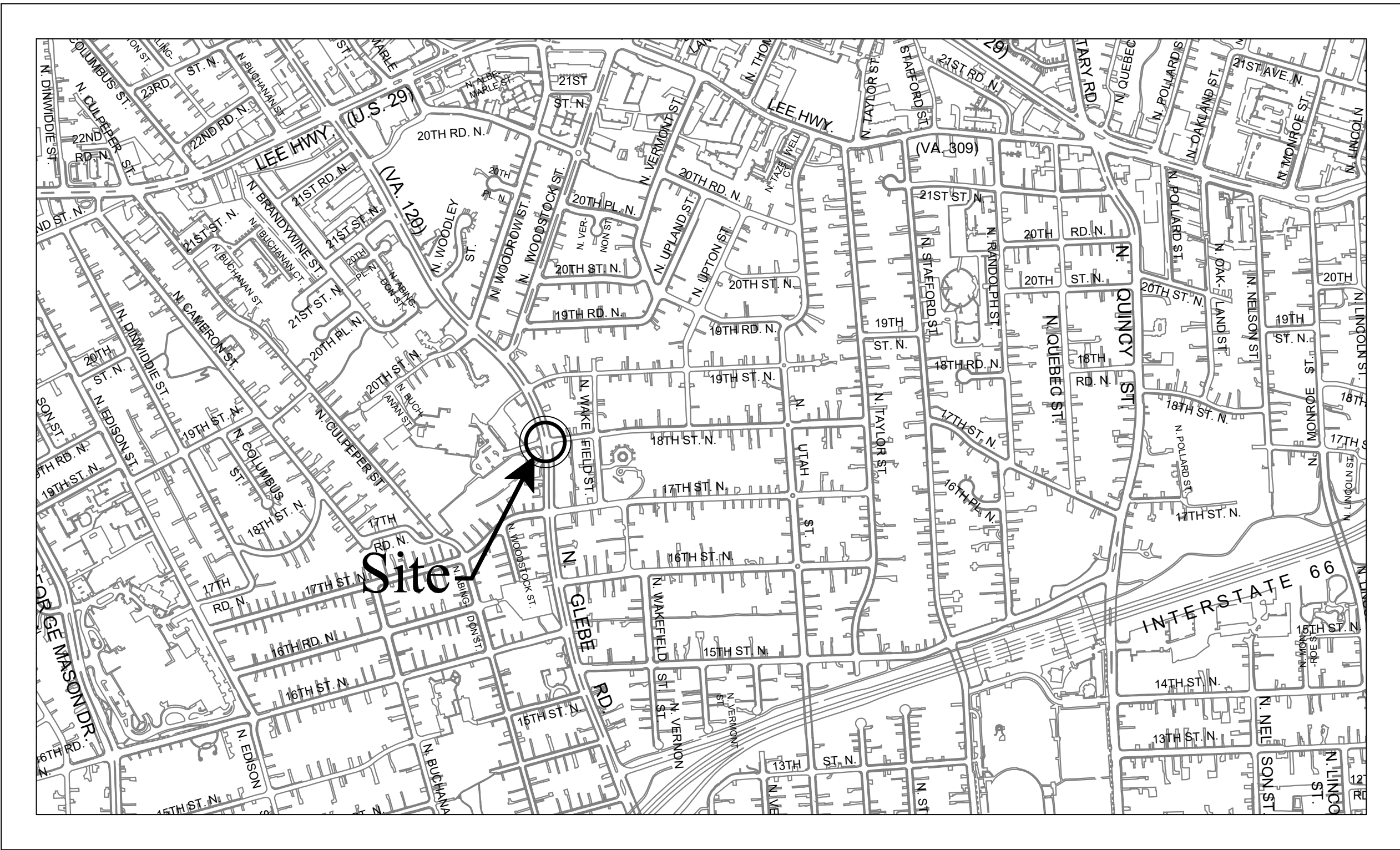
I. INSPECTIONS

- THE CONTRACTOR SHALL CONTACT THE COUNTY CONSTRUCTION MANAGER FOR INSPECTIONS THROUGHOUT CONSTRUCTION AS REQUIRED BY THE CONSTRUCTION MANAGER.
- THE COUNTY SHALL VERIFY POLE LOCATIONS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOTIFY MR. SAROSH SALEM, 703-228-3402 TO SCHEDULE INSPECTION PRIOR TO EXCAVATION, AND AGAIN PRIOR TO POURING CONCRETE. STAKEOUT IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
- 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.

# Location Map

Scale: 1" = 600'

## Vicinity



### TABLE OF CONTENTS:

Sheet Number	Sheet Title
1	COVER SHEET
2	TRAFFIC SIGNAL PLAN
3	TRAFFIC COMMUNICATION PLAN

ALL TRAFFIC SIGNALS ARE OWNED, MAINTAINED AND OPERATED BY ARLINGTON COUNTY. ALL SIGNAL DESIGNS SHALL BE IN ACCORDANCE WITH COUNTY TRAFFIC SIGNAL AND SPECIFICATION AND STANDARDS..

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

Seal



Approvals Date

TRAFFIC SIGNAL ENGINEER

TRAFFIC ENGINEERING MANAGER

TE&O BUREAU CHIEF

TRANSPORTATION DIRECTOR

Revisions Date


Project Name and Location

## Traffic Signal Design

COVER SHEET

### N. GLEBE RD. & 18TH STREET N. ID #165 (P26D)

Designed: RGS/AK  
Drawn: RGS/AK  
Checked: JSN  
Miss Utility Transmittal #:

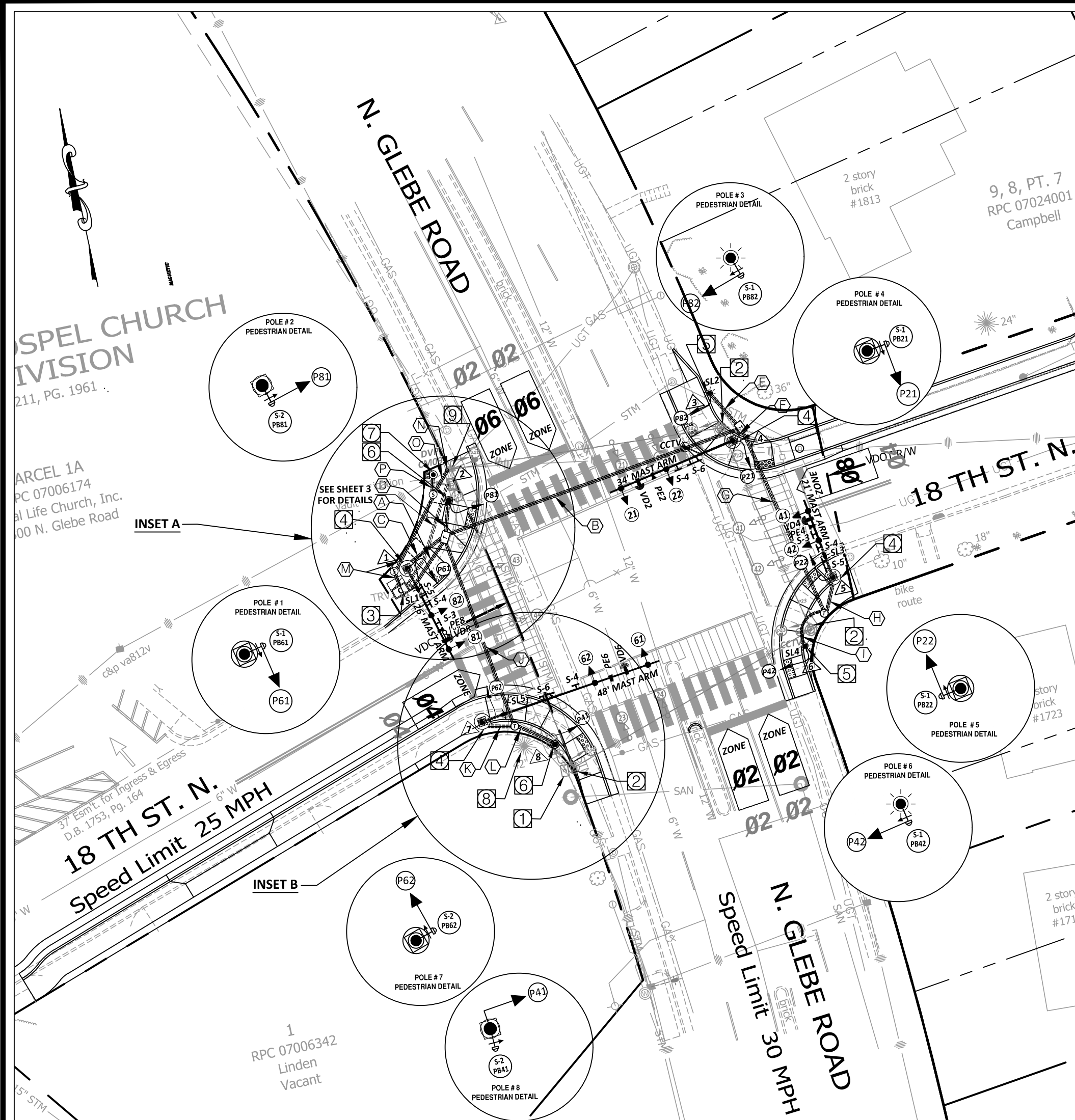
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Plotted: January 08, 2020  
Plotted by: Akafle

Scale: AS NOTED

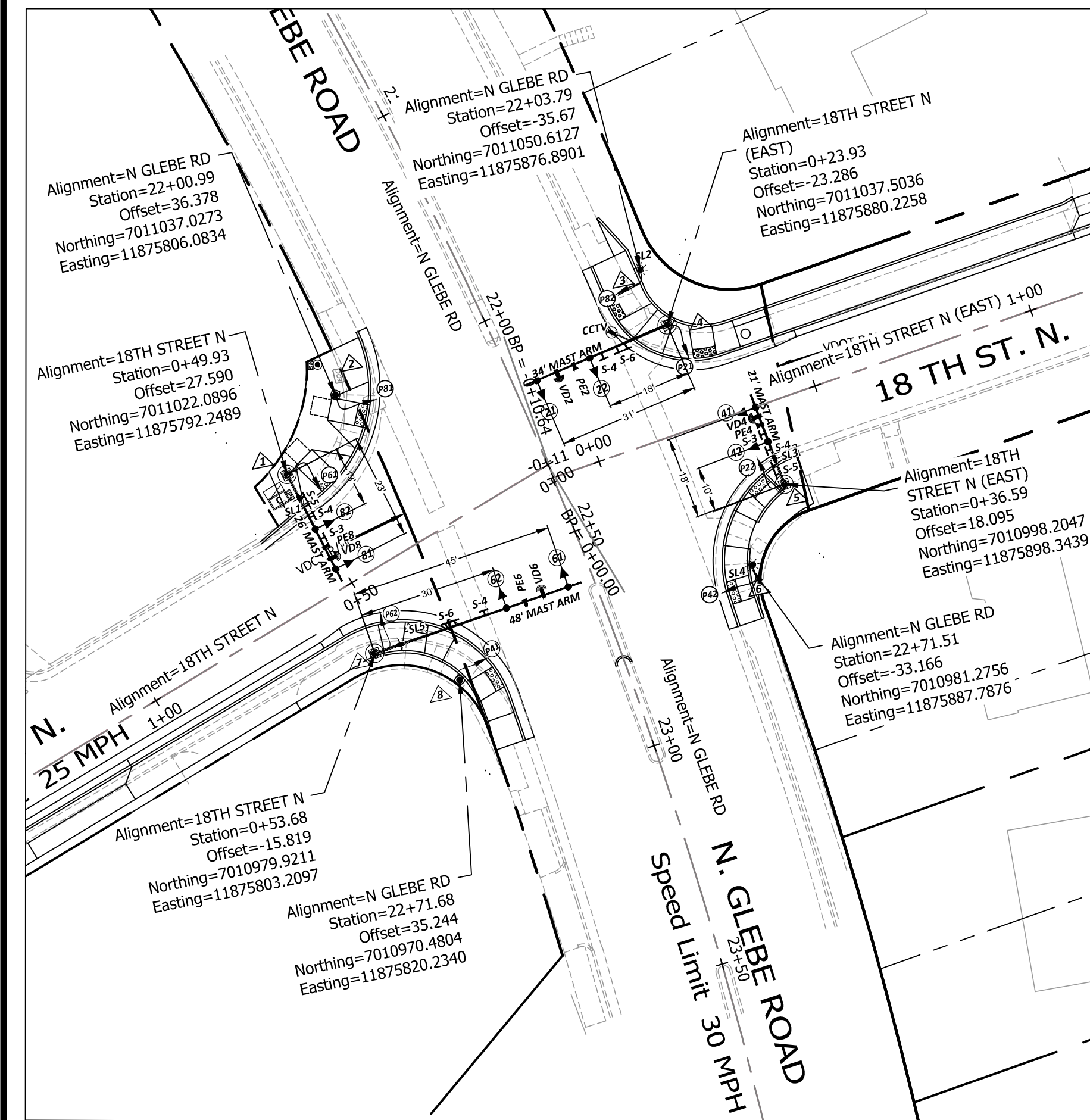
Sheet  
1 of 3

N. GLEBE RD.

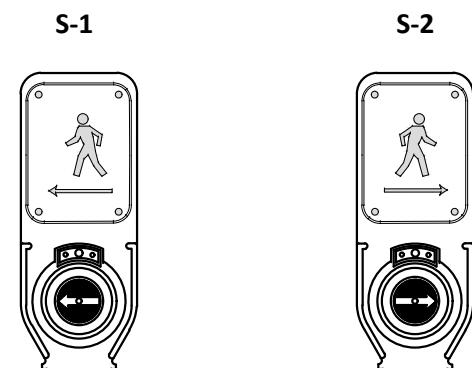




POLE LOCATION DETAIL  
(SCALE: 1"=25')



PROPOSED ACCESSIBLE  
PUSHBUTTON SYSTEM (APS)

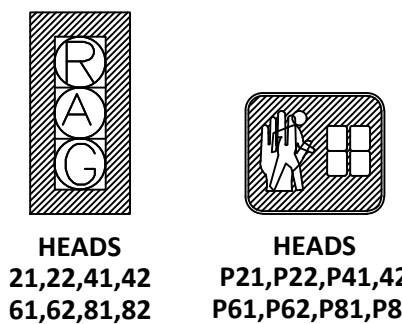


PUSHBUTTONS  
PB21, PB22, P41  
P42, PB61, PB82

PUSHBUTTONS  
PB62, PB81

- ACCESSIBLE PUSHBUTTON SYSTEM SHALL BE POLARA SYSTEM CONFORMING TO ARLINGTON COUNTY SPECIFICATION AND SHALL INCLUDE A POLARA CENTRAL CONTROL UNIT.
- PUSHBUTTONS PB21, PB22, PB61, PB62 SHALL HAVE THE FOLLOWING SPEECH WALK MESSAGE "18TH ST., WALK SIGN IS ON TO CROSS 18TH ST."
- PUSHBUTTONS PB41, PB42, PB81, PB82 SHALL HAVE THE FOLLOWING SPEECH WALK MESSAGE "GLEBE RD., WALK SIGN IS ON TO CROSS GLEBE RD."

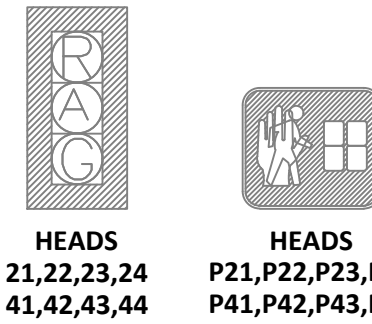
PROPOSED SIGNALS



HEADS  
21,22,41,42  
61,62,81,82

HEADS  
P21, P22, P41, 42  
P61, P62, P81, P82

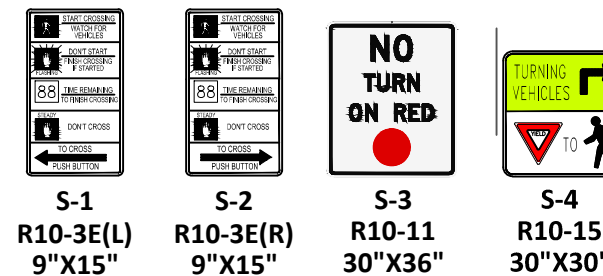
EXISTING SIGNALS  
(TO BE REMOVED)



HEADS  
21,22,23,24  
41,42,43,44

HEADS  
P21, P22, P23, P24  
P41, P42, P43, P44

PROPOSED SIGNS



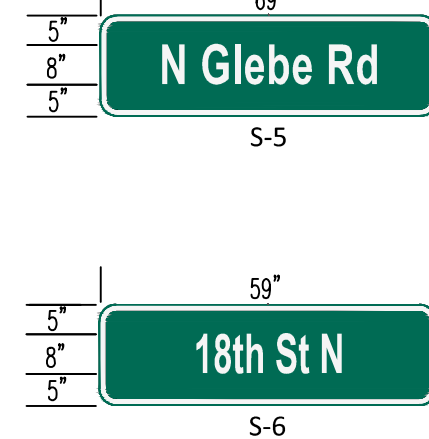
S-1  
R10-3E(L)  
9"X15"

S-2  
R10-3E(R)  
9"X15"

S-3  
R10-11  
30"X36"

S-4  
R10-15  
30"X30"

PROPOSED STREET SIGN



S-5

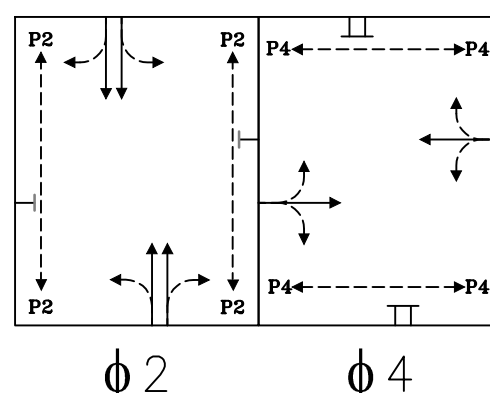
S-6

CONDUIT & CABLE

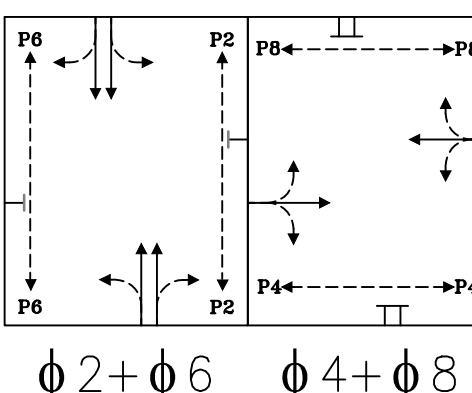
- 1-3" CONDUIT (TRENCHING)  
4-14/7c PROP. VEHICLE SIGNAL HEADS 21,22,41,42,61,62,81,82  
8-14/7c PROP. PEDESTRIAN SIGNAL HEAD P21,P22,P41,P42  
P61,P62,P81,P82
- 1-3" CONDUIT (TRENCHING)  
5-12/2c PROP. CABLE LUMINAIRES SL1,SL2,SL3,SL4,SL5
- 1-3" CONDUIT (TRENCHING)  
8-14/3c PROP. PEDESTRIAN PUSH BUTTON PB21,PB22,PB41  
PB42,PB61,PB62,PB81,PB82
- 4-PROP. LEAD-IN CABLE VIDEO DETECTION VD2,VD4,VD6,VD8  
4-PROP. LEAD-IN CABLE FOR OPTICOM GTT EVP PE2,PE4,PE6,PE8  
1-PROP. LEAD-IN CABLE FOR CCTV CAMERA
- 1-3" SPARE CONDUIT (TRENCHING)
- 1-3" CONDUIT (BORING)  
2-14/7c PROP. VEHICLE SIGNAL HEADS 21,22,41,42  
4-14/7c PROP. PEDESTRIAN SIGNAL HEAD P21,P22,P42,P82  
4-14/3c PROP. PEDESTRIAN PUSH BUTTON PB21,PB22,PB42,PB82
- 1-3" CONDUIT (BORING)  
3-12/2c PROP. CABLE LUMINAIRES SL2,SL3,SL4  
2-PROP. LEAD-IN CABLE FOR VIDEO DETECTION VD2,VD4  
2-PROP. LEAD-IN CABLE FOR OPTICOM GTT EVP PE2,PE4  
1-PROP. LEAD-IN CABLE FOR CCTV CAMERA
- 1-3" SPARE CONDUIT (BORING)
- 1-2" CONDUIT (TRENCHING)  
1-14/7c PROP. VEHICLE SIGNAL HEADS 81,82  
1-14/7c PROP. PEDESTRIAN SIGNAL HEAD P61  
1-14/3c PROP. PEDESTRIAN PUSH BUTTON PB61
- 1-2" CONDUIT (TRENCHING)  
1-12/2c PROP. CABLE LUMINAIRE SL1  
1-PROP. LEAD-IN CABLE FOR VIDEO DETECTION VD8  
1-PROP. LEAD-IN CABLE FOR OPTICOM GTT EVP PE8
- 1-2" CONDUIT (TRENCHING)  
1-14/7c PROP. PEDESTRIAN SIGNAL HEAD P81  
1-14/3c PROP. PEDESTRIAN PUSH BUTTON PB81
- 1-2" CONDUIT (TRENCHING)  
1-14/7c PROP. PEDESTRIAN SIGNAL HEAD P82  
1-14/3c PROP. PEDESTRIAN PUSH BUTTON PB82
- 1-2" CONDUIT (TRENCHING)  
1-12/2c PROP. CABLE LUMINAIRE SL2  
1-PROP. LEAD-IN CABLE FOR OPTICOM GTT EVP PE8
- 1-2" CONDUIT (TRENCHING)  
1-14/7c PROP. VEHICLE SIGNAL HEADS 21,22  
1-14/7c PROP. PEDESTRIAN SIGNAL HEAD P21  
1-14/3c PROP. PEDESTRIAN PUSH BUTTON PB21
- 1-2" CONDUIT (TRENCHING)  
1-PROP. LEAD-IN CABLE FOR VIDEO DETECTION VD2  
1-PROP. LEAD-IN CABLE FOR OPTICOM GTT EVP PE2  
1-PROP. LEAD-IN CABLE FOR CCTV CAMERA
- 1-3" CONDUIT (BORING)  
1-14/7c PROP. VEHICLE SIGNAL HEADS 41,42  
2-14/7c PROP. PEDESTRIAN SIGNAL HEAD P22,P42  
2-14/3c PROP. PEDESTRIAN PUSHBUTTON PB22, PB42
- 1-3" CONDUIT (BORING)  
1-12/2c PROP. CABLE LUMINAIRE SL3,SL4  
1-PROP. LEAD-IN CABLE FOR VIDEO DETECTION VD4  
1-PROP. LEAD-IN CABLE FOR OPTICOM GTT EVP PE4
- 1-3" SPARE CONDUIT (BORING)
- NOTES : 1. All PROPOSED CONDUITS SHOULD BE HDPE SCHEDULE 40.  
2. ALL PROPOSED CONDUIT SHOULD HAVE #8 AWG (EGC) FOR GROUNDING SYSTEM AND TRACER WIRE.

INITIAL TIMING CHART									
PHASE	2	4	6	8					
MOVEMENT	NB THRU	EB THRU	SB THRU	NB THRU					
PHASE ON	X	X	X	X					
PHASE OFF									
PHASE TIMINGS									
MIN GR	5	5	5	5					
PASSAGE	0.0	2.0	0.0	2.0					
AMBER	4.5	4.0	4.5	4.0					
RED	2	2.5	2	2.5					
MAX 1	50	20	50	20					
MAX 2	0.0	0.0	0.0	0.0					
MIN GAP	0.0	0.0	0.0	0.0					
TIME BEFORE PROTECTION	0.0	0.0	0.0	0.0					
TIME TO REDUCE	0.0	0.0	0.0	0.0					
PED WALK	7.0	7.0	7.0	7.0					
PED CLEARANCE	9	16	11	17					
MODE	MAX REAL	NONE	MAX REAL	NONE					

EXISTING PHASING DIAGRAM



PROPOSED PHASING DIAGRAM



COLOR SEQUENCE CHART									
PHASE	2	4	6	8	2+6	4+8	FLASH		
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W			
21,22	G				G	A			
41,42		G				R			
61,62			G			A			
81,82				G		R			
P21,P22	WALK				WALK	BLANK			
P41,P42		WALK				WALK			
P61,P62			WALK			WALK			
P81,P82				WALK		WALK			

NOTE: BLANK SPACES REPRESENT A RED DISPLAY. WALK INDICATION DISPLAYED AFTER PEDESTRIAN CALL IS SERVICED; OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

POLE SIGNAL MOUNTING

No.	STANDARD			LUM. LED (S)	POLE SIGNAL MOUNTING				STREET NAME SIGN
	TYPE	SIG. M.A.	LUM. M.A.		VEHICLE, BICYCLE & PEDESTRIAN HEADS	PED. PUSH BUTTONS	SIGNS	VIDEO DETECTOR PREEMPTION & CCTV	
1	MAST ARM POLE	26'	6'	180W	81,82,P61	PB61	S-1,S-3,S-4	VD8,PE8	S-5
2	PEDESTAL POLE 9'	-	-	-	P81	PB81	S-2	-	-
3	STREETLIGHT 30'	-	-	180W	P82	PB82	S-1	-	-
4	*MAST ARM POLE	34'	-	-	21,22,P21	PB21	S-1,S-4	VD2,PE2, CCTV	S-6
5	MAST ARM POLE	21'	6'	180W	41,42,P22	PB22	S-1,S-3,S-4	VD4,PE4	S-5
6	STREETLIGHT 30'	-	-	180W	P42	PB42	S-1	-	-
7	MAST ARM POLE	48'	6'	180W	61,62,P62	PB62	S-2,S-4	VD6,PE6	S-6
8	PEDESTAL POLE 9'	-	-	-	P41	PB41	S-2	-	-

- NOTES:
- EVP to be mounted on vehicle head mounting bracket or as approved by the engineer in the field.
  - All signal heads shall be yellow in color and equipped with LED type lens.
  - Street light (Cobra Head) shall be LED type (LUMEC GPLM-180W98led4k-le3-120-bl-ph-8-np).

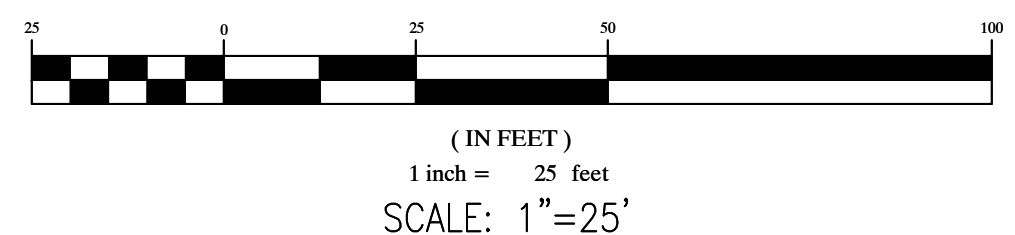
DEMOLITION & CONSTRUCTION NOTES

- REMOVE EXISTING CABINET & CONTROLLER. SALVAGE EXISTING EQUIPMENT TO BE RETURNED TO ARLINGTON PROPERTY YARD.
- REMOVE EXISTING MAST ARM POLES, SIGNALHEADS AND ASSOCIATED WIRING. SALVAGE EXISTING EQUIPMENT AND RETURN TO ARLINGTON COUNTY PROPERTY YARD. DEMOLISH EXISTING FOUNDATION.
- INSTALL CONTROLLER, CABINET, UPS AND ASSOCIATED EQUIPMENT.
- INSTALL TRAFFIC SIGNAL MAST ARM POLE & FOUNDATION WITH LUMINAIRE, SIGNALS, SIGNS, AND EQUIPMENT AS SHOWN. FOR POLE #4 PLEASE REFER TO POLE SIGNAL MOUNTING FOR DETAILS.
- INSTALL 30" COBRA HEAD STREETLIGHT POLE & FOUNDATION WITH LED LUMINAIRE AND WITH PEDESTRIAN HEAD, SIGN & PUSHBUTTON.
- INSTALL 9' PEDESTAL POLE & FOUNDATION WITH PEDESTRIAN HEAD, SIGN & PUSHBUTTON.
- INSTALL SERVICE METER WITH DISCONNECT BOX. CONTRACTOR SHALL COORDINATE WITH DE (DOMINION ENERGY) TO DETERMINE SOURCE OF ELECTRICAL SERVICE.
- CONTRACTOR SHALL COORDINATE WITH COUNTY'S ARBORIST TO DETERMINE THE CONDITION OF THE TREE AND CONFIRM WITH COUNTY'S PROJECT OFFICER IN WRITING TO ENSURE THE EXISTING TREE SHALL NOT POSE SAFETY HAZARD TO THE PROPOSED SIGNAL INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH UTILITY POLE OWNER FOR REMOVAL OF EXISTING SIGNAL RELATED WIRING.

LEGEND

	EXISTING	PROPOSED
Controller Cabinet		
Signal Junction Box (61-02)		
Signal Junction Box (61-04)		
Comm. Junction Box		
Service Junction Box		
Mast Arm Pole & Foundation		
Pedestrian Pedestal Pole & Foundation		
Cobra Head Light Pole & Foundation		
Service Meter		
Battery Backup (UPS)		
Vehicle Signal Head (LED)		
Pedestrian Push Button		
FLIR Video Detection		
Emergency Vehicle Preemption		
CCTV Vehicle Camera		
Overhead Light (LED)		
Conduit Run		

GRAPHIC SCALE



Seal



Approvals

Date

TRAFFIC SIGNAL ENGINEER

TRAFFIC ENGINEERING MANAGER

TE&O BUREAU CHIEF

TRANSPORTATION DIRECTOR

Revisions

Date

Traffic Signal Design

TRAFFIC SIGNAL PLAN

N. GLEBE RD. & 18TH STREET N.  
ID #165  
(P26D)

Project Name and Location

Designed: RGS/AK

Drawn: RGS/AK

Checked: JSN

Miss Utility Transmittal #:

Filename: P26D-165-SIG & COMM.dwg

Path: Q:\Data\TrafficData\N. Glebe Rd\18th St N\Drawings\TS Design

Plotted: January 08, 2020

Plotted by: Akafle

Scale: AS NOTED

Sheet



Seal



Approvals \_\_\_\_\_ Date \_\_\_\_\_

TRAFFIC SIGNAL ENGINEER \_\_\_\_\_

TRAFFIC ENGINEERING MANAGER \_\_\_\_\_

TE&O BUREAU CHIEF \_\_\_\_\_

TRANSPORTATION DIRECTOR \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_


Project Name and Location

Traffic Signal Design

TRAFFIC COMMUNICATION PLAN

N. GLEBE RD. & 18TH STREET N.  
ID #165  
(P26D)

Designed: RGS/AK  
Drawn: RGS/AK  
Checked: JSN  
Miss Utility Transmittal #:

Filename: P26D-165-SIG & COMM.dwg  
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Plotted: January 08, 2020  
Plotted by: Akafle

Scale: AS NOTED

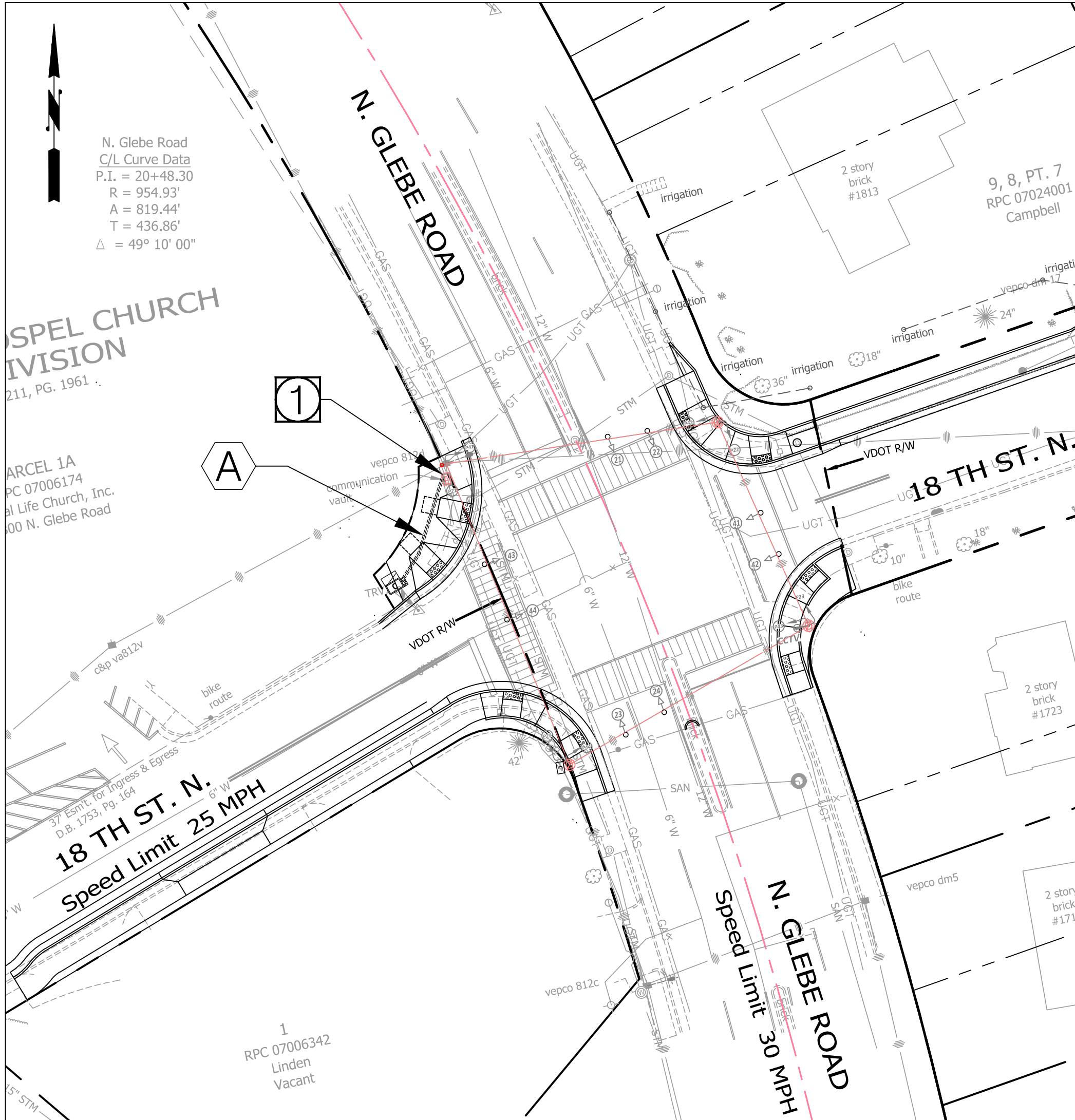
Sheet

3 of 3

N. GLEBE RD.

FIBER CONNECTION DETAIL

(SCALE: 1"=25')



NOTES: FIBER COMMUNICATION

1. THE CONTRACTOR SHALL MAINTAIN EXISTING FIBER COMMUNICATION THROUGH CONSTRUCTION.
2. ALL FIBER OPTIC CABLE DISCONNECTION, SPLICING AND TESTING SHALL BE PERFORMED BY ARLINGTON COUNTY DES CONTRACTOR. CONTACT DTS ONE WEEK IN ADVANCE OF WORK.
3. ALL COMMUNICATION WORK SHALL FOLLOW COUNTY STANDARDS AND BE PERFORMED BY A QUALIFIED CONTRACTOR.

DEMOLITION &  
CONSTRUCTION NOTES



EXISTING FIBER COMMUNICATION JUNCTION BOX, CONTACT  
ARLINGTON COUNTY DEPARTMENT OF TECHNOLOGY SERVICES (DTS) TO  
INSTALL NEW PATCH PANEL TO SPICE POINT; CONTRACTOR SHALL BE  
RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THIS WORK.

CONDUIT & CABLE

1-2" CONDUIT ( TRENCHING )  
1-12 STRAND FIBER OPTIC CABLE

NOTES :

1. ALL NEW CONDUITS SHOULD BE HDPE SCHEDULE 40.
2. ALL PROPOSED CONDUIT SHOULD HAVE #6 AWG (EGC) FOR GROUNDING SYSTEM.
3. PROPOSED COMMUNICATION CONDUIT SHOULD HAVE A PULL WIRE FOR FUTURE FIBER OPTIC CABLE.
4. ALL NEW CONDUIT SHALL HAVE TRACER WIRE.

LEGEND

	EXISTING	PROPOSED
Controller Cabinet		
Signal Junction Box (61-02)		
Signal Junction Box (61-04)		
Comm. Junction Box		
Service Junction Box		
Mast Arm Pole & Foundation		
Pedestrian Pedestal Pole & Foundation		
Cobra Head Light Pole & Foundation		
Service Meter		
Battery Backup (UPS)		
Vehicle Signal Head (LED)		
Pedestrian Push Button		
FLIR Video Detection		
Emergency Vehicle Preemption		
CCTV Vehicle Camera		
Overhead Light (LED)		
Conduit Run		

GRAPHIC SCALE

