

### GENERAL NOTES:

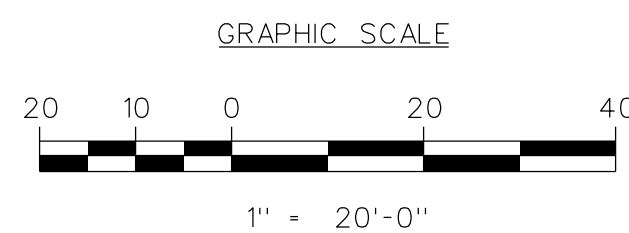
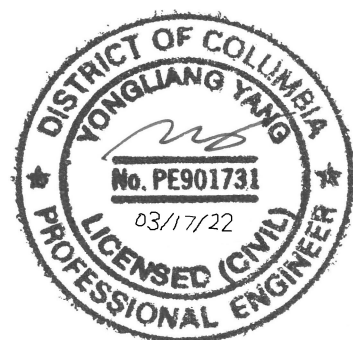
- A. ALL WORK RELATING TO THE TRAFFIC SAFETY IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH APPROPRIATE PROVISIONS OF THE LATEST VERSIONS OF DDOT STANDARD DRAWINGS, STANDARD SPECIFICATIONS AND THE CONTRACT SPECIAL PROVISIONS.
- B. THE CONTRACTOR SHALL SUBMIT TO DDOT CATALOG CUTS OF ALL EQUIPMENT AND MATERIALS TO BE FURNISHED AND INSTALLED. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO PROCUREMENT.
- C. THE LOCATION OF PROPOSED EQUIPMENT SHOWN IS APPROXIMATE.
- D. THE LOCATION OF ALL PROPOSED EQUIPMENT AND MATERIALS SHALL BE FIELD LOCATED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- E. NO ABOVE GROUND HARDWARE OR EQUIPMENT SHALL BE LOCATED SUCH THAT A 4 FEET CLEAR PATH IS NOT AVAILABLE FOR ADA PURPOSES. ALL DDOT ADA REQUIREMENTS MUST BE SATISFIED.

### CONSTRUCTION NOTES:

- A. INSTALL HIGH VISIBILITY CROSSWALK PAVEMENT MARKINGS AS SHOWN.
- B. INSTALL NEW WHEELCHAIR RAMPS PER ADA STANDARDS.
- C. REMOVE PAVEMENT MARKINGS AS SHOWN.
- D. INSTALL PAVEMENT MARKINGS AS SHOWN.
- E. REMOVE THE EXISTING SIGN POST(S).
- F. INSTALL SIGN POST(S).
- G. REMOVE THE EXISTING SIGN(S).
- H. INSTALL SIGN(S).
- I. INSTALL CONCRETE SIDEWALK AS SHOWN.
- J. TO BE INSTALLED WITH RRFB PLANS.
- K. INSTALL FLEXIBLE DELINEATOR POST(S).

### LEGEND:

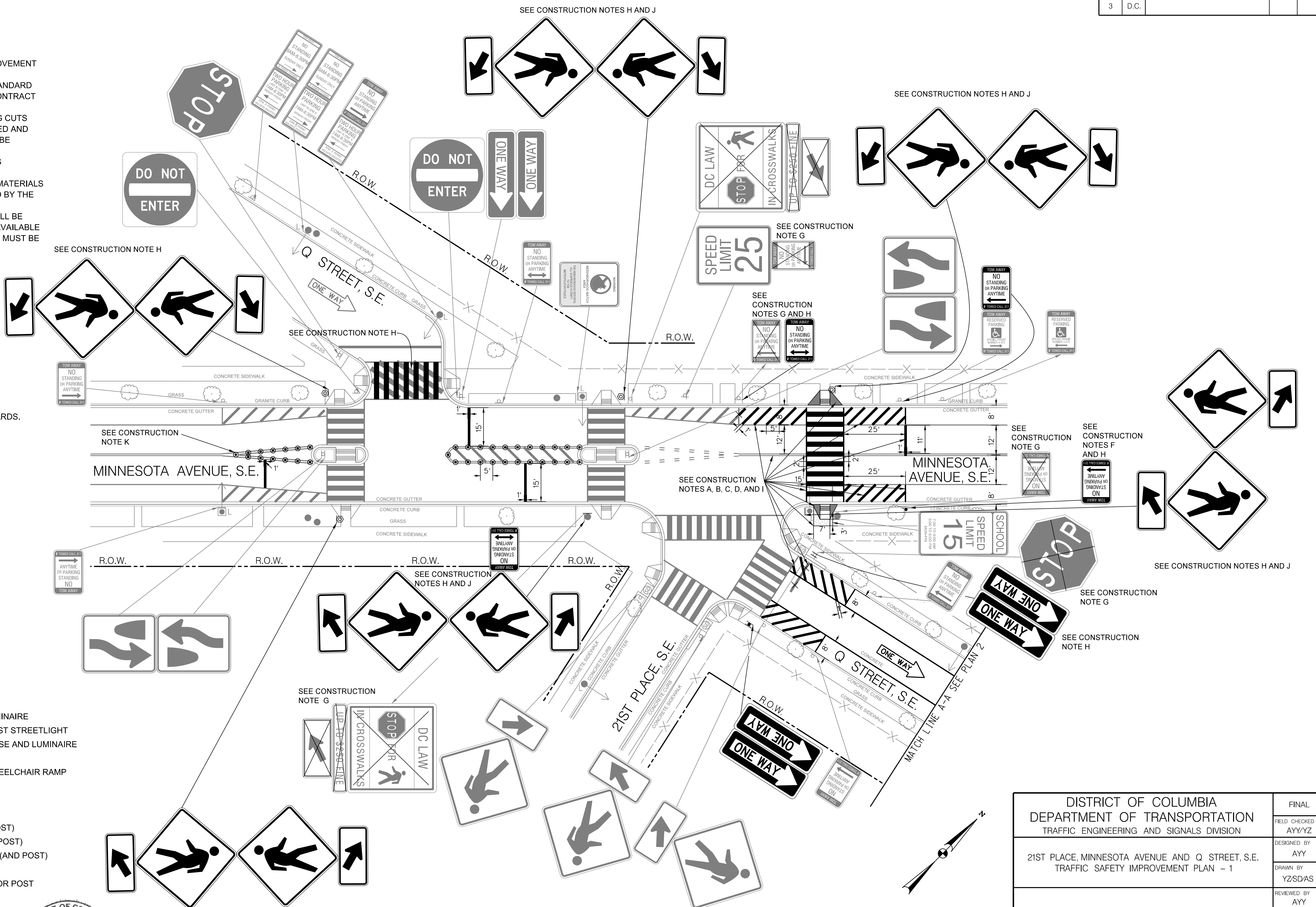
- EXISTING WOOD POLE
- L ● → EXISTING WOOD POLE WITH LUMINAIRE
- L □ → EXISTING 28-FOOT PENDANT POST STREETLIGHT POLE WITH A TRANSFORMER BASE AND LUMINAIRE
- ▲ EXISTING WHEELCHAIR RAMP
- ▲ (with lines) PROPOSED ADA COMPLIANT WHEELCHAIR RAMP
- EXISTING TREE
- ⊗ EXISTING CATCH BASIN(S)
- ⊕ EXISTING FIRE HYDRANT
- ● EXISTING TRAFFIC SIGN (AND POST)
- ● (with lines) PROPOSED TRAFFIC SIGN (AND POST)
- ⊙ (with lines) PROPOSED RRFB TRAFFIC SIGN (AND POST)
- ⊕ (with lines) FLASHING BEACON (RRFB) POLE
- ⊕ (with lines) PROPOSED FLEXIBLE DELINEATOR POST
- ⊕ (with lines) EXISTING GAS VALVE
- ⊕ (with lines) PROPOSED CONCRETE PAVEMENT
- ✕ EXISTING ITEM TO BE REMOVED
- X — EXISTING METAL FENCE
- R.O.W. RIGHT OF WAY LINE



**PSI**  
**Precision Systems, Inc.**  
 Engineers, Planners and Architects  
 WASHINGTON, D.C. (202) 686-8225 www.dcpsl.com

NO.	DESCRIPTION	NAME	DATE

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND SIGNALS DIVISION		FINAL
21ST PLACE, MINNESOTA AVENUE AND Q STREET, S.E. TRAFFIC SAFETY IMPROVEMENT PLAN - 1		FIELD CHECKED BY Ayy/Yz
DESIGNED BY Ayy		DRAWN BY Yz/SDAS
REVIEWED BY Ayy		DATE 03 / 22
SUBMITTED BY PROJECT ENGINEER	DATE	SCALE 1" = 20'
RECOMMENDED BY PROJECT MANAGER	DATE	SHEET 1
APPROVED BY ASSOCIATE DIRECTOR, TESD	DATE	OF 4
DRAWING NO.		



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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.			

**GENERAL NOTES:**

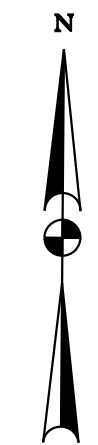
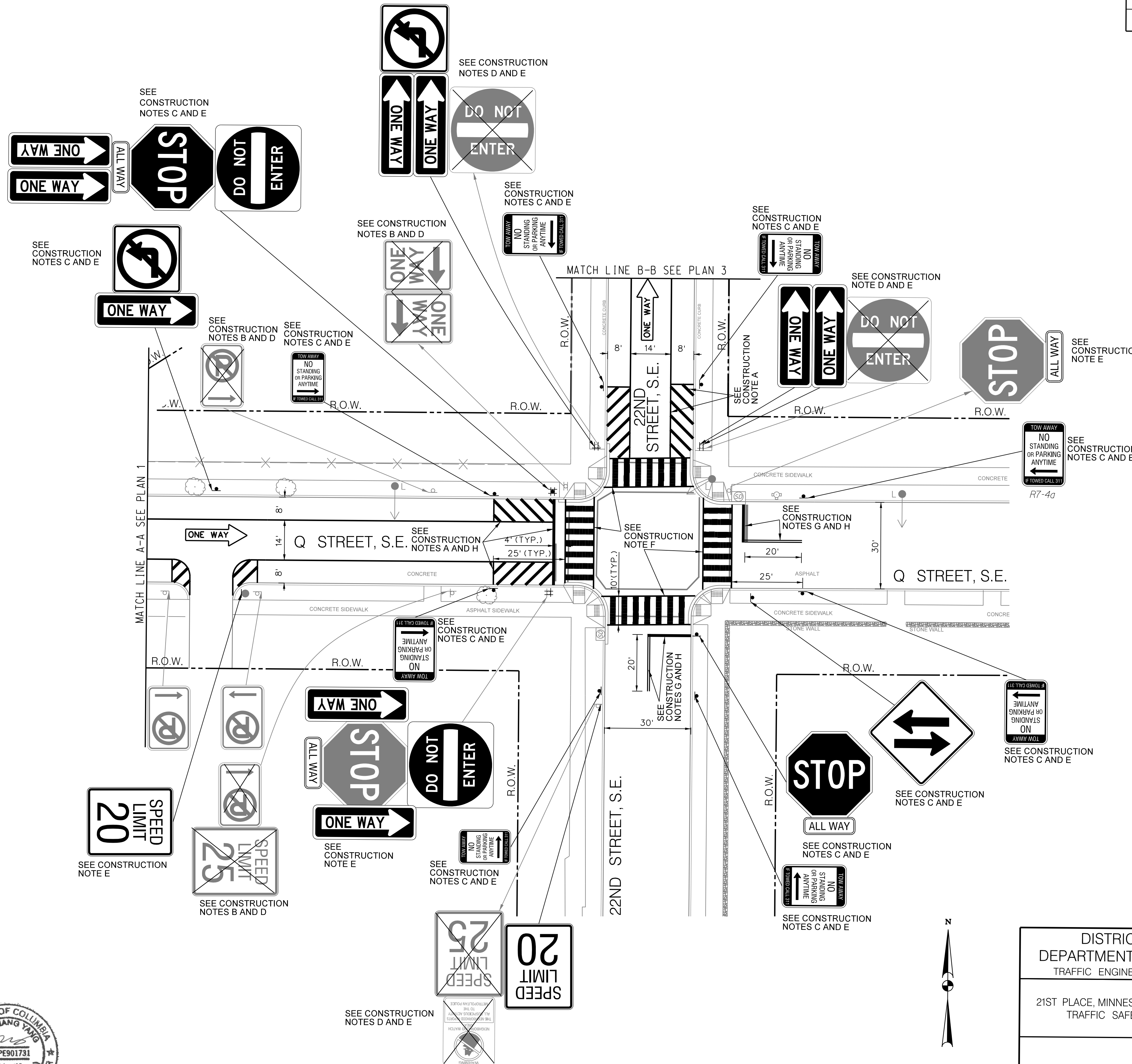
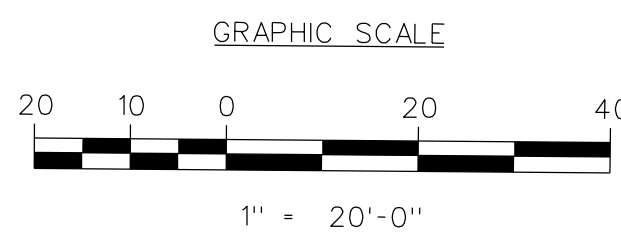
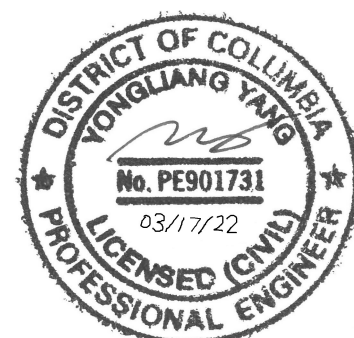
- A. ALL WORK RELATING TO THE TRAFFIC SAFETY IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH APPROPRIATE PROVISIONS OF THE LATEST VERSIONS OF DDOT STANDARD DRAWINGS, STANDARD SPECIFICATIONS AND THE CONTRACT SPECIAL PROVISIONS.
- B. THE CONTRACTOR SHALL SUBMIT TO DDOT CATALOG CUTS OF ALL EQUIPMENT AND MATERIALS TO BE FURNISHED AND INSTALLED. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO PROCUREMENT.
- C. THE LOCATION OF PROPOSED EQUIPMENT SHOWN IS APPROXIMATE.
- D. THE LOCATION OF ALL PROPOSED EQUIPMENT AND MATERIALS SHALL BE FIELD LOCATED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- E. NO ABOVE GROUND HARDWARE OR EQUIPMENT SHALL BE LOCATED SUCH THAT A 4 FEET CLEAR PATH IS NOT AVAILABLE FOR ADA PURPOSES. ALL DDOT ADA REQUIREMENTS MUST BE SATISFIED.

**CONSTRUCTION NOTES:**

- A. INSTALL PAVEMENT MARKINGS AS SHOWN.
- B. REMOVE THE EXISTING SIGN POST(S).
- C. INSTALL SIGN POST(S).
- D. REMOVE THE EXISTING SIGN(S).
- E. INSTALL SIGN(S).
- F. INSTALL HIGH VISIBILITY CROSSWALK PAVEMENT MARKINGS AS SHOWN.
- G. INSTALL 20 FOOT DOUBLE YELLOW LINES AS SHOWN.
- H. INSTALL 12" WHITE STOP BAR AS SHOWN.

**LEGEND:**

- EXISTING WOOD POLE
- L ● → EXISTING WOOD POLE WITH LUMINAIRE
- L □ → EXISTING 28-FOOT PENDANT POST STREETLIGHT POLE WITH A TRANSFORMER BASE AND LUMINAIRE
- ▭ EXISTING WHEELCHAIR RAMP
- ⊙ EXISTING TREE
- ⊙ EXISTING CATCH BASIN(S)
- ⊙ EXISTING FIRE HYDRANT
- P EXISTING SIGN AND SIGN POST
- P EXISTING SIGN AND SIGN POST
- ▨ EXISTING STONE WALL
- R.O.W. RIGHT OF WAY LINE



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DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND SIGNALS DIVISION		FINAL
21ST PLACE, MINNESOTA AVENUE AND Q STREET, S.E. TRAFFIC SAFETY IMPROVEMENT PLAN - 2		FIELD CHECKED BY AyyYZ
DESIGNED BY Ayy		DRAWN BY YZSDAS
REVIEWED BY Ayy		DATE 03 / 22
RECOMMENDED PROJECT MANAGER		SCALE 1" = 20'
APPROVED ASSOCIATE DIRECTOR, TESO		SHEET 2 OF 4
SUBMITTED BY PROJECT ENGINEER		DATE
RECOMMENDED PROJECT MANAGER		DATE
APPROVED ASSOCIATE DIRECTOR, TESO		DATE
DRAWING NO.		

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.			

**GENERAL NOTES:**

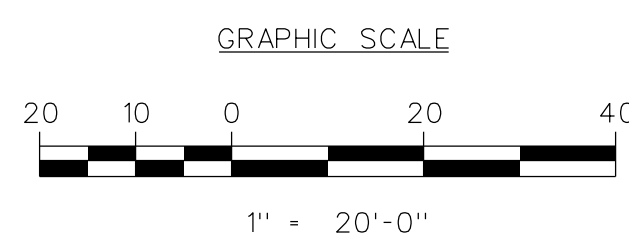
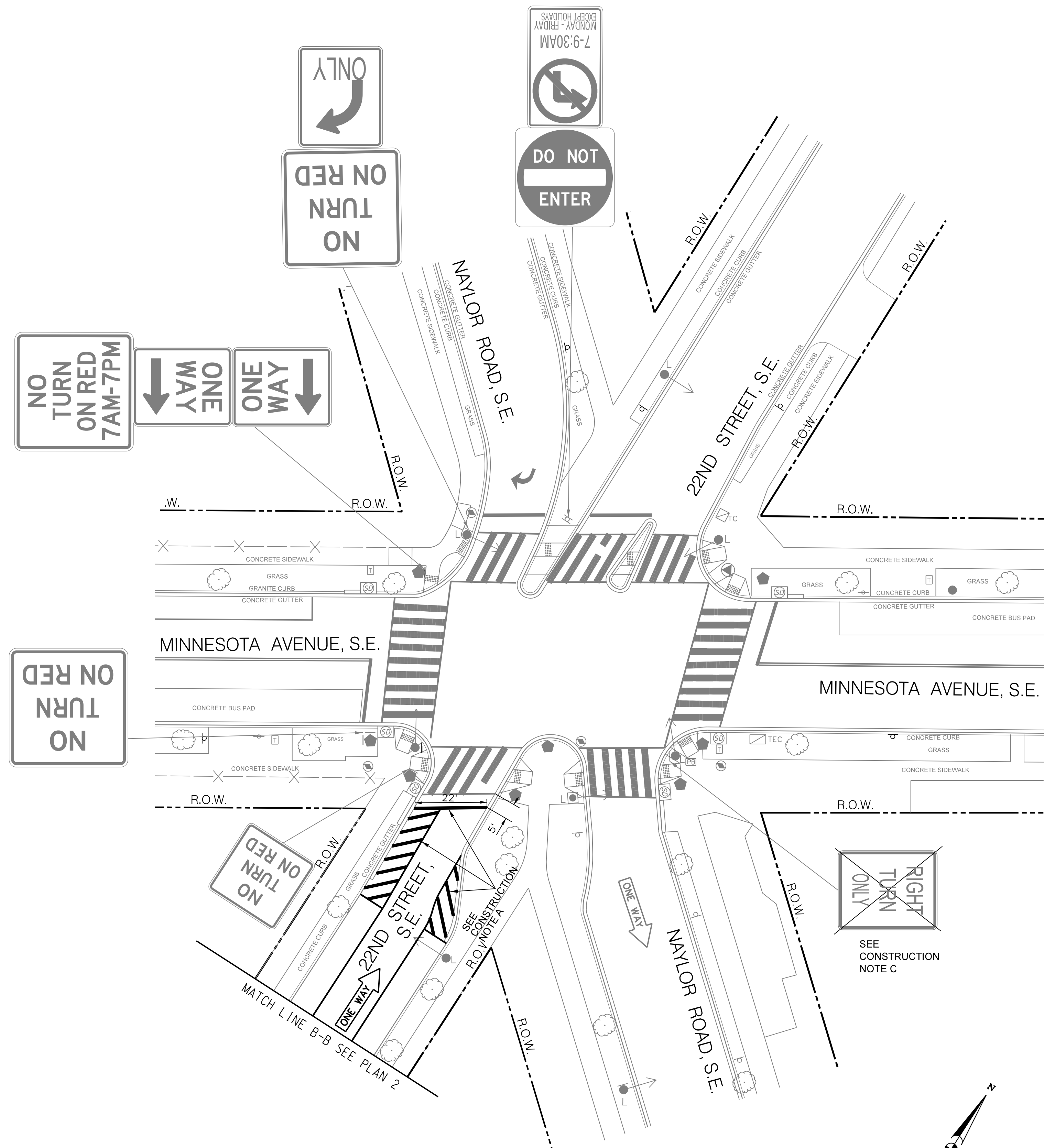
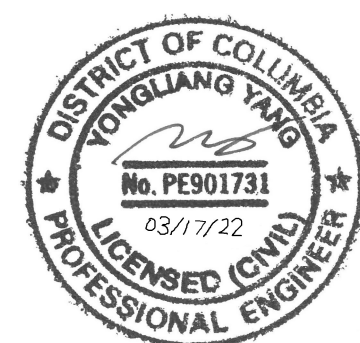
- A. ALL WORK RELATING TO THE TRAFFIC SAFETY IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH APPROPRIATE PROVISIONS OF THE LATEST VERSIONS OF DDOT STANDARD DRAWINGS, STANDARD SPECIFICATIONS AND THE CONTRACT SPECIAL PROVISIONS.
- B. THE CONTRACTOR SHALL SUBMIT TO DDOT CATALOG CUTS OF ALL EQUIPMENT AND MATERIALS TO BE FURNISHED AND INSTALLED. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO PROCUREMENT.
- C. THE LOCATION OF PROPOSED EQUIPMENT SHOWN IS APPROXIMATE.
- D. THE LOCATION OF ALL PROPOSED EQUIPMENT AND MATERIALS SHALL BE FIELD LOCATED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- E. NO ABOVE GROUND HARDWARE OR EQUIPMENT SHALL BE LOCATED SUCH THAT A 4 FEET CLEAR PATH IS NOT AVAILABLE FOR ADA PURPOSES. ALL DDOT ADA REQUIREMENTS MUST BE SATISFIED.
- F. REFER TO SIGNAL PLANS FOR PROPOSED INTERSECTION SIGNAGE.

**CONSTRUCTION NOTES:**

- A. INSTALL PAVMENT MARKINGS AS SHOWN.
- B. INSTALL SIGN(S).
- C. REMOVE EXISTING SIGN(S).

**LEGEND:**

- TC EXISTING TRAFFIC SIGNAL CONTROLLER
- TEC EXISTING TRAFFIC SIGNAL COMMUNICATION CABINET
- EXISTING WOOD POLE
- L EXISTING WOOD POLE WITH LUMINAIRE
- L EXISTING 28-FOOT PENDANT POST STREETLIGHT
- POLE WITH A TRANSFORMER BASE AND LUMINAIRE
- EXISTING WHEELCHAIR RAMP
- EXISTING TREE
- EXISTING CATCH BASIN(S)
- EXISTING FIRE HYDRANT
- EXISTING TRAFFIC SIGN (AND POST)
- PROPOSED TRAFFIC SIGN (AND POST)
- EXISTING BUS STOP SIGN AND POST
- EXISTING TRASH RECEPTACLE
- EXISTING PULL BOX
- EXISTING DDOT MANHOLE (4'X4')
- EXISTING DDOT MANHOLE (3'X3')
- EXISTING METAL FENCE
- RIGHT OF WAY LINE



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21ST PLACE, MINNESOTA AVENUE AND Q STREET, S.E. TRAFFIC SAFETY IMPROVEMENT PLAN - 3		FIELD CHECKED BY AYY/YZ
DESIGNED BY AYY		DRAWN BY YZSD/AS
REVIEWED BY AYY		DATE 03 /22
SCALE 1" = 20'		SHEET 3
APPROVED ASSOCIATE DIRECTOR, TESD		DATE
SUBMITTED BY PROJECT ENGINEER		DATE
RECOMMENDED PROJECT MANAGER		DATE
DRAWING NO.		OF 4

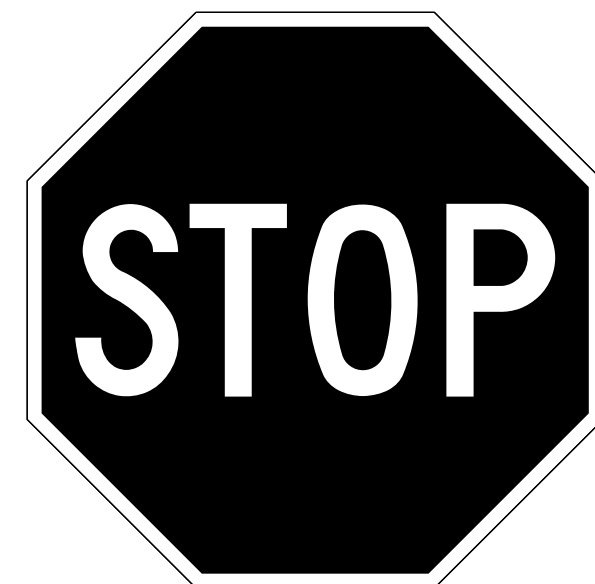
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.			

PROPOSED SIGN SCHEDULE



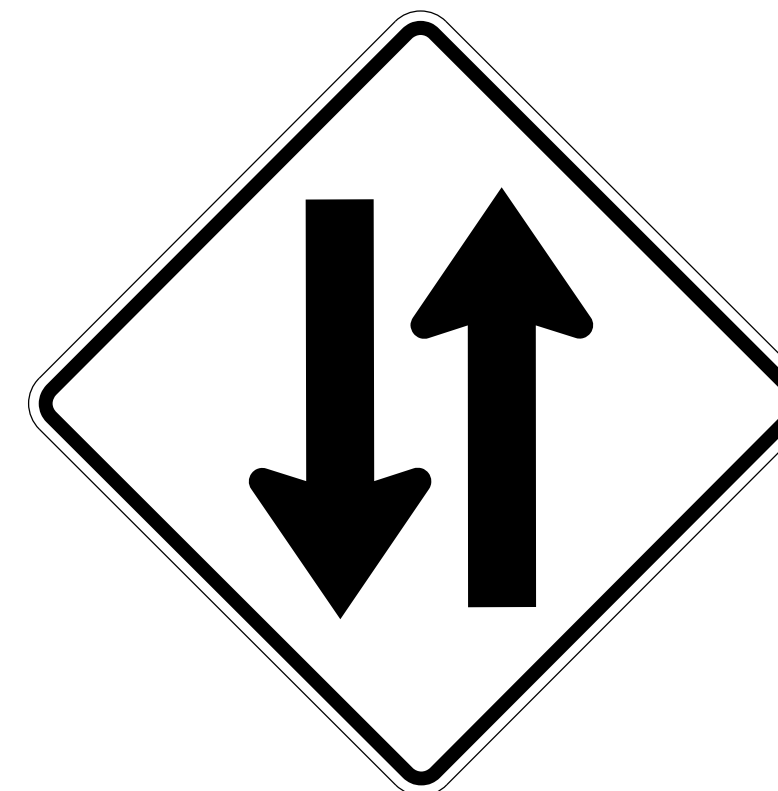
R5-1  
30" x 30"  
QUANTITY: 2



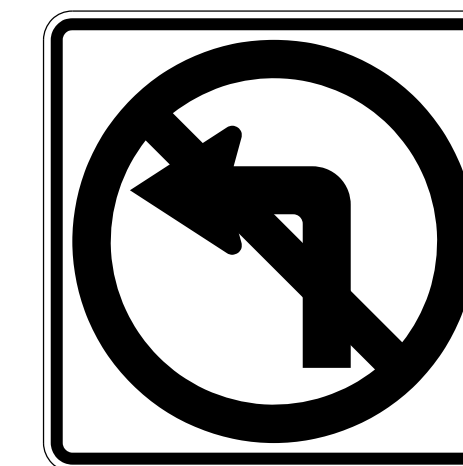
R1-1  
30" x 30"  
QUANTITY: 2



W11-2  
36" x 36"  
QUANTITY: 12



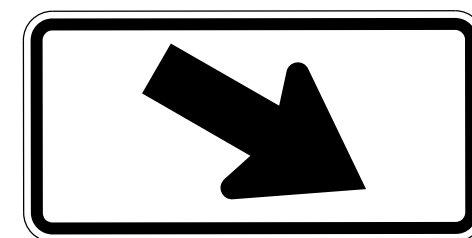
W6-3  
36" x 36"  
QUANTITY: 1



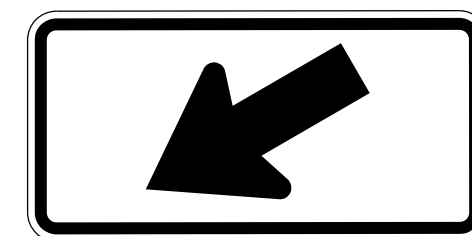
R3-2  
24" x 24"  
QUANTITY: 2



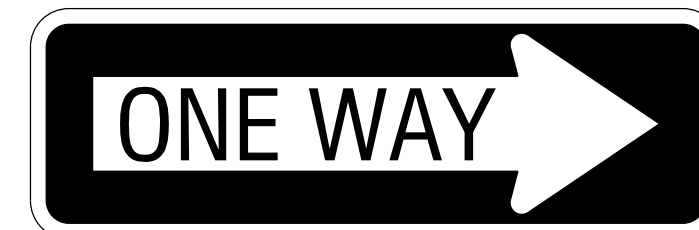
R1-3P  
6" x 18"  
QUANTITY: 3



W16-7pR  
12" x 24"  
QUANTITY: 6



W16-7pL  
12" x 24"  
QUANTITY: 6



R6-1R  
12" x 36"  
QUANTITY: 7



R6-1L  
12" x 36"  
QUANTITY: 6



R7-4a  
12" x 18"  
QUANTITY: 5



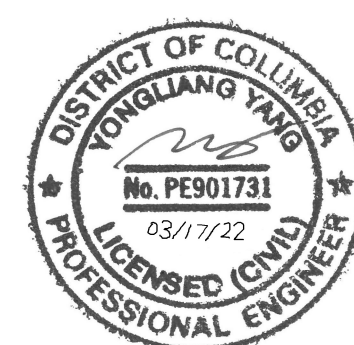
R7-4b  
12" x 18"  
QUANTITY: 6



R7-4c  
12" x 18"  
QUANTITY: 2

SUMMARY OF QUANTITIES

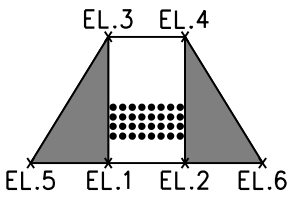
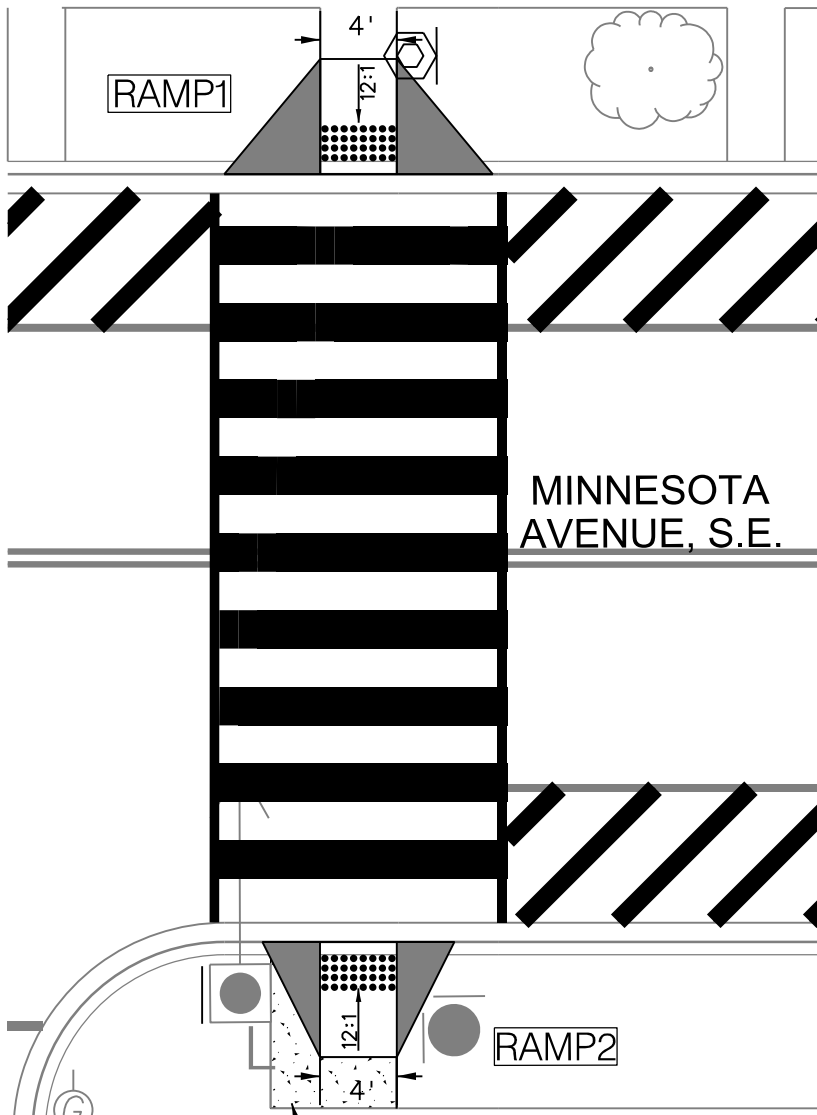
ITEM NUMBER	DESCRIPTION	QUANTITY	UNIT
605006	PCC SIDEWALK, 4 INCH	3	SY
606098	PCC WHEELCHAIR/BICYCLE RAMP - W CONSTRUCTION	2	EACH
612008	REMOVE LANE MARKING	294	SF
612058	THERMOPLASTIC PAVEMENT MARKING, 6 INCH	1087	LF
612064	THERMOPLASTIC PAVEMENT MARKING, 12 INCH	750	LF
612066	THERMOPLASTIC PAVEMENT MARKING, 24 INCH	520	LF
616016	METAL SIGN POSTS, 3.00 POUNDS PER FOOT	120	LF
616022	TRAFFIC SIGN PANELS	260	SF



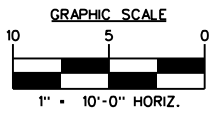
NO.	DESCRIPTION	NAME	DATE

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND SIGNALS DIVISION		FINAL
21ST PLACE, MINNESOTA AVENUE AND Q STREET, S.E. TRAFFIC SAFETY IMPROVEMENT PLAN - 4		FIELD CHECKED BY Ayy/YZ
		DESIGNED BY Ayy
SUBMITTED BY _____ DATE _____ PROJECT ENGINEER		DRAWN BY YZSD/AS
		REVIEWED BY Ayy
RECOMMENDED BY _____ DATE _____ PROJECT MANAGER		DATE 03 / 22
		SCALE
APPROVED BY _____ DATE _____ ASSOCIATE DIRECTOR, TESD		SHEET / OF 4 / 4
		DRAWING NO.

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NEW SIDEWALK  
TO BE INSTALLED



RAMP	LANDING (LxW)	LANDING SLOPE	FLARE LENGTH		SLOPE	CURB HEIGHT	SPOT ELEVATIONS					
			LEFT	RIGHT			EL.1	EL.2	EL.3	EL.4	EL.5	EL.6
1	4'x4'	48:1	5'	5'	12:1	7"	0"	0"	7"	7"	7"	7"
2	4'x4'	48:1	3'	3'	12:1	7"	0"	0"	7"	7"	7"	7"

RAMP DETAIL

MINNESOTA AVENUE, Q STREET, AND 21ST PLACE, S.E.

D.C. DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND SIGNALS DIVISION	DESIGNED BY: _____ PRECISION SYSTEMS, INC. TRAFFIC SIGNAL DESIGNER
	SUBMITTED BY: _____ TRAFFIC SIGNAL PROJECT ENGINEER
CHECKED BY: AYY                      DATE: 03/22	RECOMMENDED BY: _____ TRAFFIC SIGNAL DESIGN PROJECT MANAGER
DRAWN BY: SH, GT, CC, AS              DATE: 03/22	APPROVED BY: _____ TRAFFIC SIGNAL PROGRAM MANAGER
IN SERVICE:                              SCALE: 1"=10'	

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.			

### GENERAL NOTES:

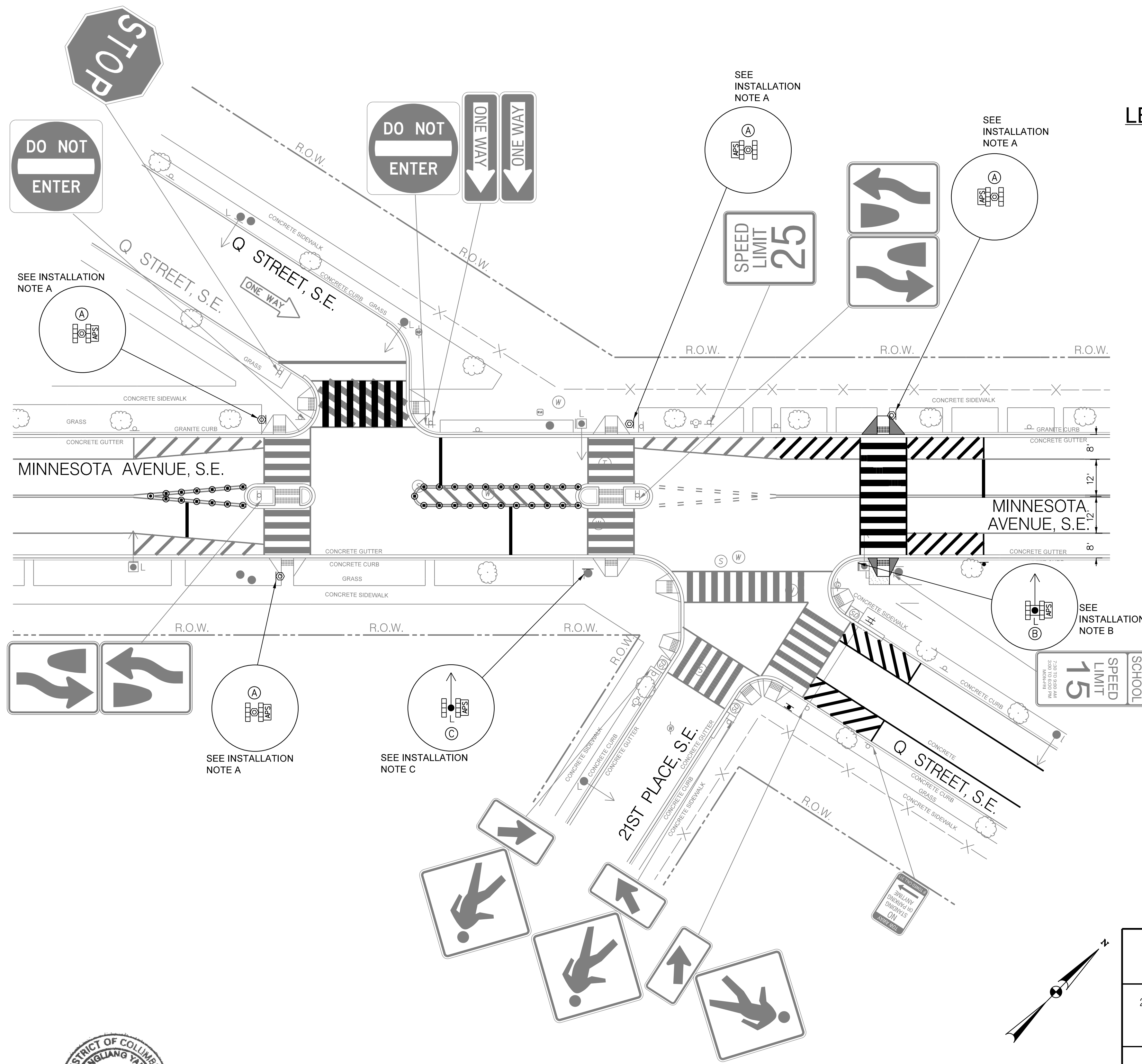
- ALL WORK RELATING TO THE INSTALLATION OF RECTANGULAR RAPID FLASHING BEACONS (RRFB'S) SHALL COMPLY WITH APPROPRIATE PROVISIONS OF THE LATEST VERSIONS OF DDOT STANDARD DRAWINGS, STANDARD SPECIFICATIONS, AND CONTRACT SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL SUBMIT TO DDOT CATALOG CUTS OF ALL EQUIPMENT AND MATERIALS TO BE FURNISHED AND INSTALLED. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO PROCUREMENT.
- THE LOCATION OF PROPOSED EQUIPMENT SHOWN IS APPROXIMATE. THE LOCATION OF ALL PROPOSED EQUIPMENT AND MATERIALS SHALL BE FIELD LOCATED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL RECTANGULAR RAPID FLASHING BEACONS (RRFB'S) AND ALL MOUNTING HARDWARE.
- THE CONTRACTOR SHALL RETURN ALL REMOVED TRAFFIC SIGNAL EQUIPMENT TO THE DDOT TRAFFIC SIGNAL SHOP. CONTACT MR. HARVEY ALEXANDER AT LEAST 72 HOURS IN ADVANCE AT 202-671-1485 TO ARRANGE SERVICE.
- NO ABOVE GROUND HARDWARE OR EQUIPMENT SHALL BE LOCATED SUCH THAT A 4 FEET CLEAR PATH IS NOT AVAILABLE FOR ADA PURPOSES.
- THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL SIZE AS-BUILT DRAWING RECORDS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL SIGNAL EQUIPMENT AND CONDUITS, STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.
- PLEASE REFER TO THE SAFETY IMPROVEMENT PLANS FOR PROPOSED SIGN ASSEMBLIES TO INSTALLED ALONG WITH RRFB.

### RRFB SPECIFICATIONS:

- RRFB INSTALLATION SHALL FOLLOW GUIDELINES SPECIFIED IN FHWA IA-21.
- RRFB FLASH DURATION SHALL BE CALCULATED AS FOLLOWS: TOTAL FLASH DURATION SHALL BE GREATER THAN OR EQUAL TO LONGEST CURB TO CURB CROSSING DISTANCE + DISTANCE FROM PUSH-BUTTON TO CURB LINE (OR 6 FEET, WHICHEVER IS GREATER) AT 3.0 FEET PER SECOND. FOR THIS LOCATION, THE RRFB FLASH DURATION SHALL BE 16 SECONDS  $([40' + 6'] / 3.0)$ .
- RRFB FLASH SEQUENCE SHALL CONFORM TO SECTION 5B OF FHWA IA-21.
- A LOCATER TONE AND SPEECH INFORMATION MESSAGE SHALL BE PROVIDED. THE SPEECH INFORMATION MESSAGE SHALL BE AS FOLLOWS: "YELLOW LIGHTS ARE FLASHING" AND SHALL BE PROVIDED TWICE. NO VIBROTACTILE INDICATIONS OR PERCUSSIVE INDICATIONS SHALL BE USED.
- BEACONS SHALL BE PROPERLY AIMED TOWARD APPROACHING TRAFFIC FOR BEST EFFECTIVENESS. FINAL INSTALLATION ANGLE SHALL BE DETERMINED IN THE FIELD AND/OR DIRECTED BY DDOT.

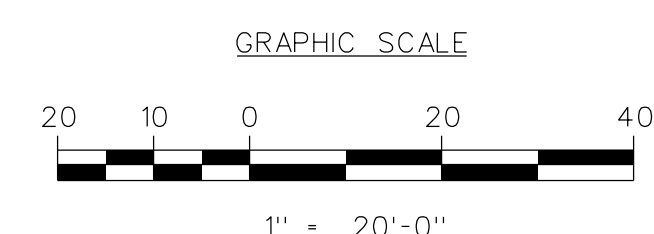
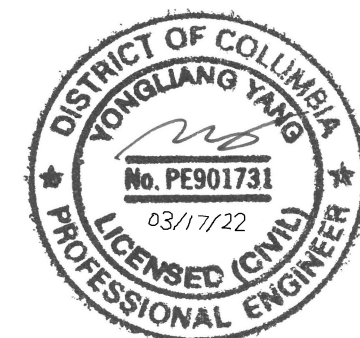
### INSTALLATION NOTES:

- INSTALL SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) A (SEE DETAILS ON SHEET 2).
- INSTALL SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) B (SEE DETAILS ON SHEET 2) ON THE EXISTING 28-FOOT PENDANT POST STREETLIGHT POLE.
- INSTALL SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) C (SEE DETAILS ON SHEET 2) ON THE EXISTING WOOD POLE. INSTALL PROPOSED SIGN(S).



### LEGEND:

- EXISTING WOOD POLE
- EXISTING WOOD POLE WITH LUMINAIRE
- EXISTING 28-FOOT PENDANT POST STREETLIGHT
- POLE WITH A TRANSFORMER BASE AND LUMINAIRE
- EXISTING WHEELCHAIR RAMP
- PROPOSED ADA COMPLIANT WHEELCHAIR RAMP
- EXISTING TREE
- EXISTING CATCH BASIN(S)
- EXISTING FIRE HYDRANT
- EXISTING TRAFFIC SIGN (AND POST)
- PROPOSED TRAFFIC SIGN (AND POST)
- PROPOSED SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) POLE
- PROPOSED RECTANGULAR RAPID FLASHING BEACON (RRFB)
- PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL (APS)
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING WATER MANHOLE
- EXISTING SEWER MANHOLE
- EXISTING GAS VALVE
- EXISTING GAS METER
- EXISTING TELEPHONE MANHOLE
- EXISTING PEPCO ELECTRICAL MANHOLE
- PROPOSED CONCRETE PAVEMENT
- EXISTING METAL FENCE
- RIGHT OF WAY LINE



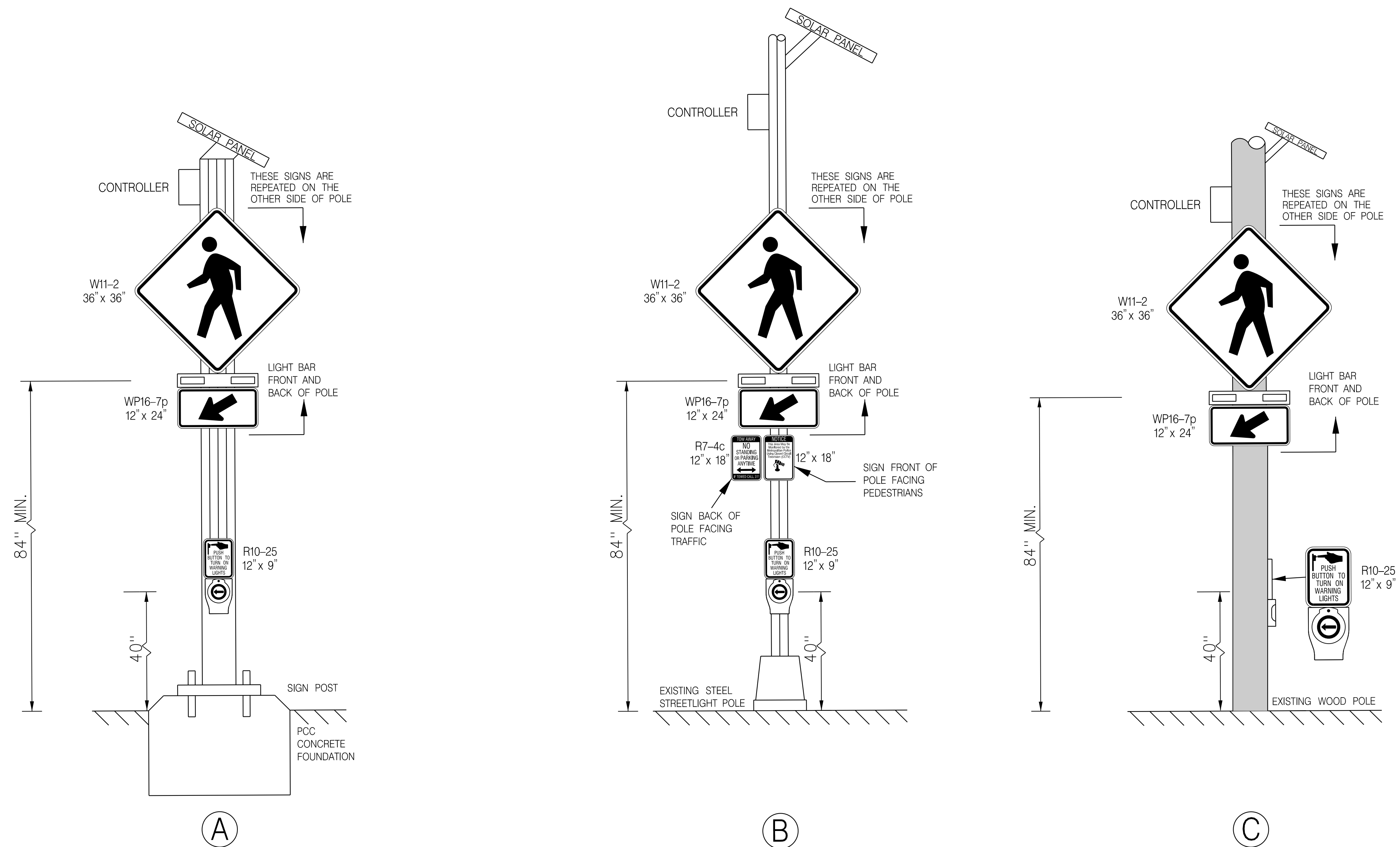
NO.	DESCRIPTION	NAME	DATE

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND SIGNALS DIVISION		FINAL
21ST PLACE, MINNESOTA AVENUE AND Q STREET, S.E. RECTANGULAR RAPID FLASHING BEACON (RRFB) INTSTALLATION		FIELD CHECKED BY AYY/YZ
DESIGNED BY AYY		DRAWN BY YZ/SD/AS
REVIEWED BY AYY		DATE 03 /22
SUBMITTED BY PROJECT ENGINEER		DATE
RECOMMENDED PROJECT MANAGER		DATE
APPROVED ASSOCIATE DIRECTOR, TESD		DATE
SCALE 1" = 20'		SHEET 1 OF 2
DRAWING NO.		

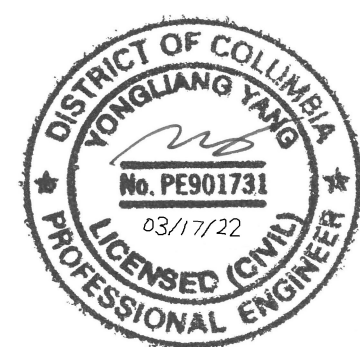
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.			

### RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY DETAIL



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3/23/2022 3:11:03 PM



NO.	DESCRIPTION	NAME	DATE

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND SIGNALS DIVISION		FINAL
21ST PLACE, MINNESOTA AVENUE AND Q STREET, S.E. RECTANGULAR RAPID FLASHING BEACON (RRFB) INTSTALLATION		FIELD CHECKED BY AYY/YZ
DESIGNED BY AYY		DRAWN BY YZ/SD/AS
REVIEWED BY AYY		DATE 03 /22
SUBMITTED BY PROJECT ENGINEER		DATE
RECOMMENDED PROJECT MANAGER		DATE
APPROVED ASSOCIATE DIRECTOR, TESD		DATE
SHEET 2		OF 2
DRAWING NO.		

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.			

**GENERAL NOTES:**

- ALL WORK RELATING TO THE INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH APPROPRIATE PROVISIONS OF THE LATEST VERSIONS OF DDOT STANDARD DRAWINGS, STANDARD SPECIFICATIONS AND THE CONTRACT SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL SUBMIT TO THE DDOT CATALOG CUTS OF ALL EQUIPMENT AND MATERIALS TO BE FURNISHED AND INSTALLED. WRITTEN APPROVAL FROM DDOT SHALL BE SECURED PRIOR TO PROCUREMENT.
- THE LOCATION OF PROPOSED EQUIPMENT SHOWN IS APPROXIMATE. THE LOCATION OF ALL PROPOSED EQUIPMENT AND MATERIALS SHALL BE FIELD LOCATED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRAFFIC AND PEDESTRIAN SIGNAL HEADS, TRAFFIC SIGNAL POLES, TRANSFORMER BASES, APS UNITS, VIDEO DETECTION CAMERA, TRAFFIC SIGNAL CONTROLLER, CABINET, AND ALL MOUNTING HARDWARE.
- THE CONTRACTOR SHALL RETURN ALL REMOVED TRAFFIC SIGNAL EQUIPMENT TO DDOT TRAFFIC SIGNAL SHOP. CONTACT MR. RANDOLPH COPPER 72 HOURS IN ADVANCE AT (202) 905-6059 TO ARRANGE SERVICE.
- NO ABOVE GROUND HARDWARE OR EQUIPMENT SHALL BE LOCATED SUCH THAT A 4 FEET CLEAR PATH IS NOT AVAILABLE FOR ADA PURPOSES.
- THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL SIZE AS-BUILT DRAWING RECORDS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL SIGNAL EQUIPMENT AND CONDUITS, STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.
- CONTRACTOR SHALL TEMPORARILY INSTALL W23-2 (NEW TRAFFIC PATTERN AHEAD) SIGNS ALONG BOTH APPROACHES OF MINNESOTA AVENUE TO NOTIFY DRIVERS OF A CHANGE IN OPERATION.

**REMOVAL NOTES:**

- REMOVE THE EXISTING SIGN(S).
- REMOVE THE EXISTING 3-SECTION R,Y,G ARROW TRAFFIC SIGNAL HEAD(S).

**INSTALLATION NOTES:**

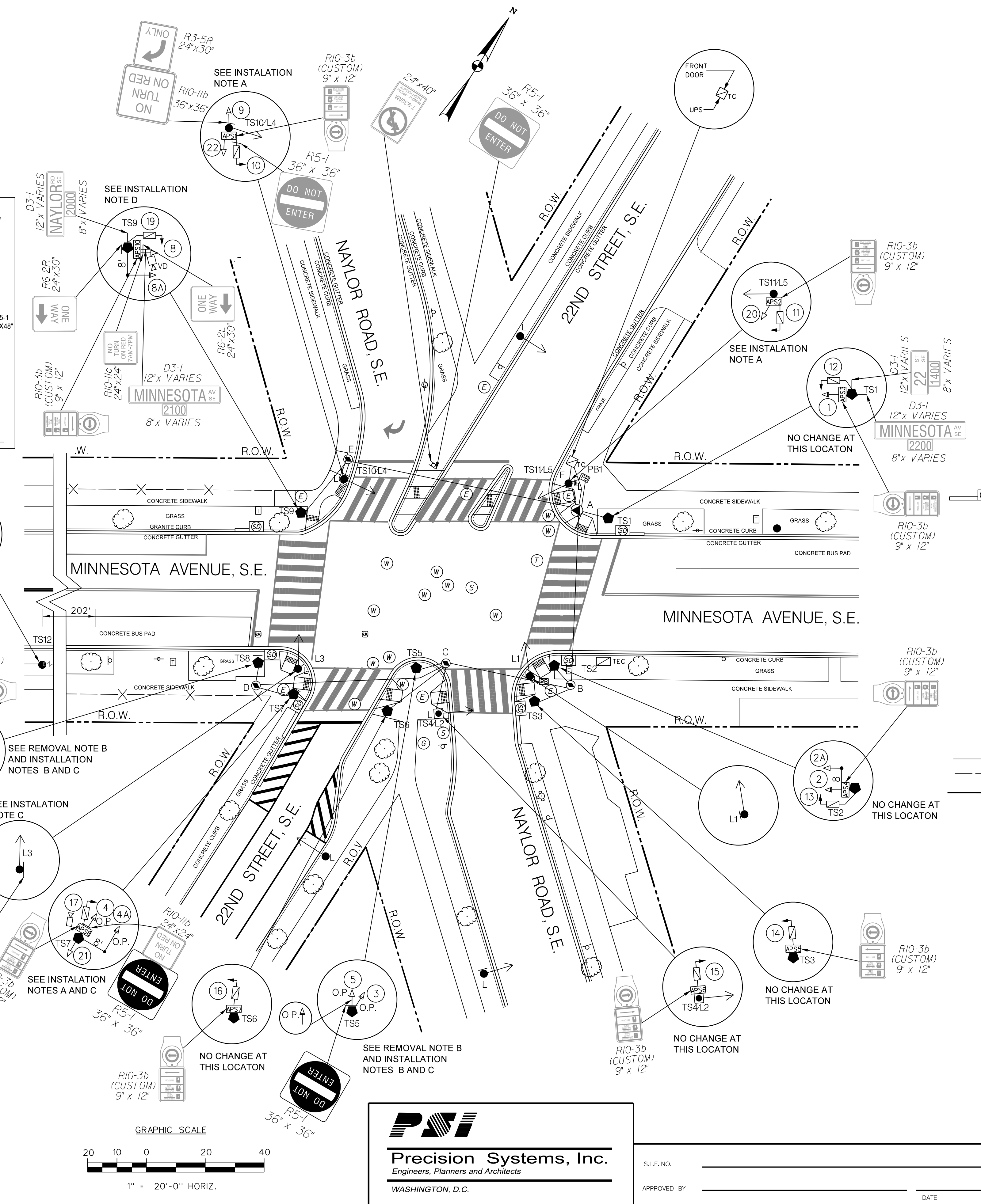
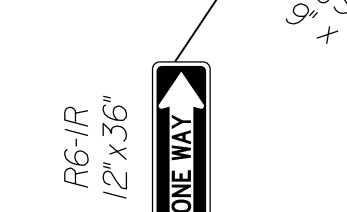
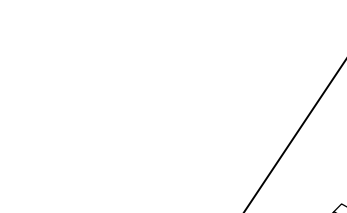
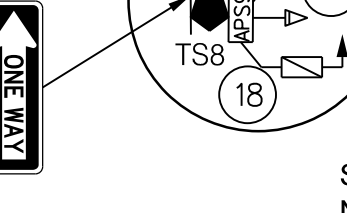
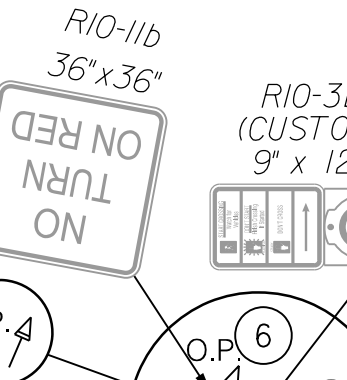
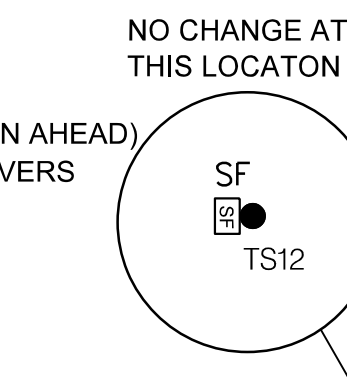
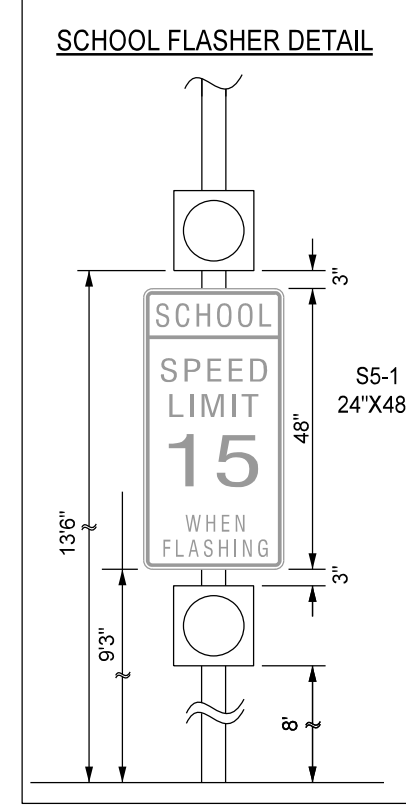
- INSTALL PROPOSED LED 3-SECTION R,Y,G, BALL TRAFFIC SIGNAL HEAD(S) WITH BACKPLATES.
- INSTALL PROPOSED LED 3-SECTION R,Y,Y, ARROW TRAFFIC SIGNAL HEAD(S) WITH BACKPLATES.
- INSTALL PROPOSED SIGN(S).
- INSTALL PROPOSED VIDEO DETECTION CAMERA.

**MAST ARM NOTES:**

- A BACK PLATE SHALL BE AFFIXED TO EACH MAST ARM MOUNTED SIGNAL HEAD.
- THE BOTTOM OF MAST ARM MOUNTED SIGNAL HEADS SHALL BE 16 FEET ABOVE THE ROADWAY SURFACE.

**CABLE NOTES:**

- DDOT PERSONNEL WILL MAKE ALL ELECTRICAL CONNECTIONS INSIDE THE CONTROLLER CABINET. THE CONTRACTOR SHALL MAKE ALL ELECTRICAL CONNECTIONS IN TRAFFIC AND PEDESTRIAN SIGNAL HEADS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL NEW, UNSPLICED 7C 14AWG STRANDED CABLE TO ALL PROPOSED SIGNAL HEADS.

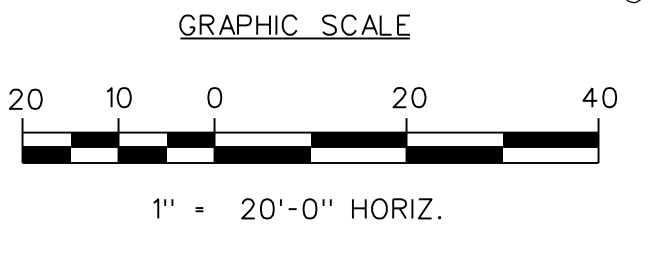
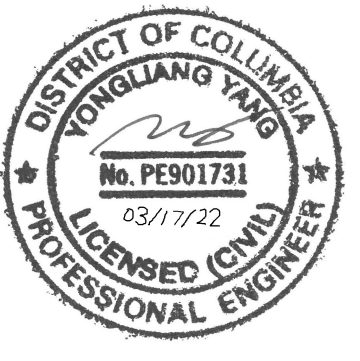


**LEGEND:**

- TC EXISTING TRAFFIC SIGNAL CONTROLLER
- TEC EXISTING TRAFFIC SIGNAL COMMUNICATION CABINET
- 20' EXISTING 20-FOOT STEEL TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
- W EXISTING WOOD POLE
- L EXISTING WOOD POLE WITH LUMINAIRE
- L EXISTING 28.5-FOOT STEEL PENDANT POST STREETLIGHT POLE WITH LUMINAIRE AND A STEEL TRANSFORMER BASE
- EXISTING LUMINAIRE AND SUPPORT ARM INDICATING DIRECTION OF LIGHT
- EXISTING 3-SECTION LED TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- EXISTING 3-SECTION OPTICALLY PROGRAMMABLE TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- PROPOSED 3-SECTION OPTICALLY PROGRAMMABLE TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- PROPOSED 3-SECTION LED TRAFFIC SIGNAL HEAD CONVENTIONAL (ALL LENSES 12 INCHES)
- EXISTING 2-SECTION LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
- 8' EXISTING 8-FOOT MAST ARM WITH CAP AND CLAMP
- APS EXISTING ACCESSIBLE PEDESTRIAN SIGNAL (APS)
- VD EXISTING VIDEO DETECTION CAMERA
- SF EXISTING SCHOOL FLASHER AND SIGN
- CB EXISTING CATCH BASIN(S)
- WR EXISTING WHEELCHAIR RAMP
- TS EXISTING TRAFFIC SIGN AND POST
- BS EXISTING BUS STOP SIGN AND POST
- TR EXISTING TRASH RECEPTACLE
- WH EXISTING WATER MANHOLE
- SM EXISTING SEWER MANHOLE
- GM EXISTING GAS MANHOLE
- GV EXISTING GAS VALVE
- GM EXISTING GAS METER
- TM EXISTING TELEPHONE MANHOLE
- EM EXISTING PEPCO ELECTRICAL MANHOLE
- PB EXISTING PULL BOX
- T EXISTING TREE
- 4' EXISTING DDOT MANHOLE (4'X4'X4')
- 3' EXISTING DDOT MANHOLE (3'X3'X3')
- EC EXISTING DDOT ELECTRICAL CONDUIT
- MF EXISTING METAL FENCE
- R.O.W. RIGHT OF WAY LINE

SEQUENCE OF OPERATION DRAWING NO. TS-283-G, ACISA NO. 4132

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND SIGNALS DIVISION		FINAL
22ND STREET, MINNESOTA AVENUE AND NAYLOR ROAD, S.E. TRAFFIC SIGNAL MODIFICATION		FIELD CHECKED BY AYY
DESIGNED BY AYY		DESIGNED BY AYY
DRAWN BY SDAS		DRAWN BY SDAS
REVIEWED BY AYY		REVIEWED BY AYY
SUBMITTED BY TRAFFIC SIGNAL PROJECT ENGINEER	DATE	DATE
RECOMMENDED TRAFFIC SIGNAL DESIGN PROJECT MANAGER	DATE	03 / 22
ITS /TRAFFIC SIGNAL MAINTENANCE DIVISION MANAGER	DATE	SCALE 1" = 20'
APPROVED TRAFFIC SIGNAL PROGRAM MANAGER	DATE	SHEET 1 OF 3
DRAWING NO. S-1867-D		



S.L.F. NO. \_\_\_\_\_  
APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

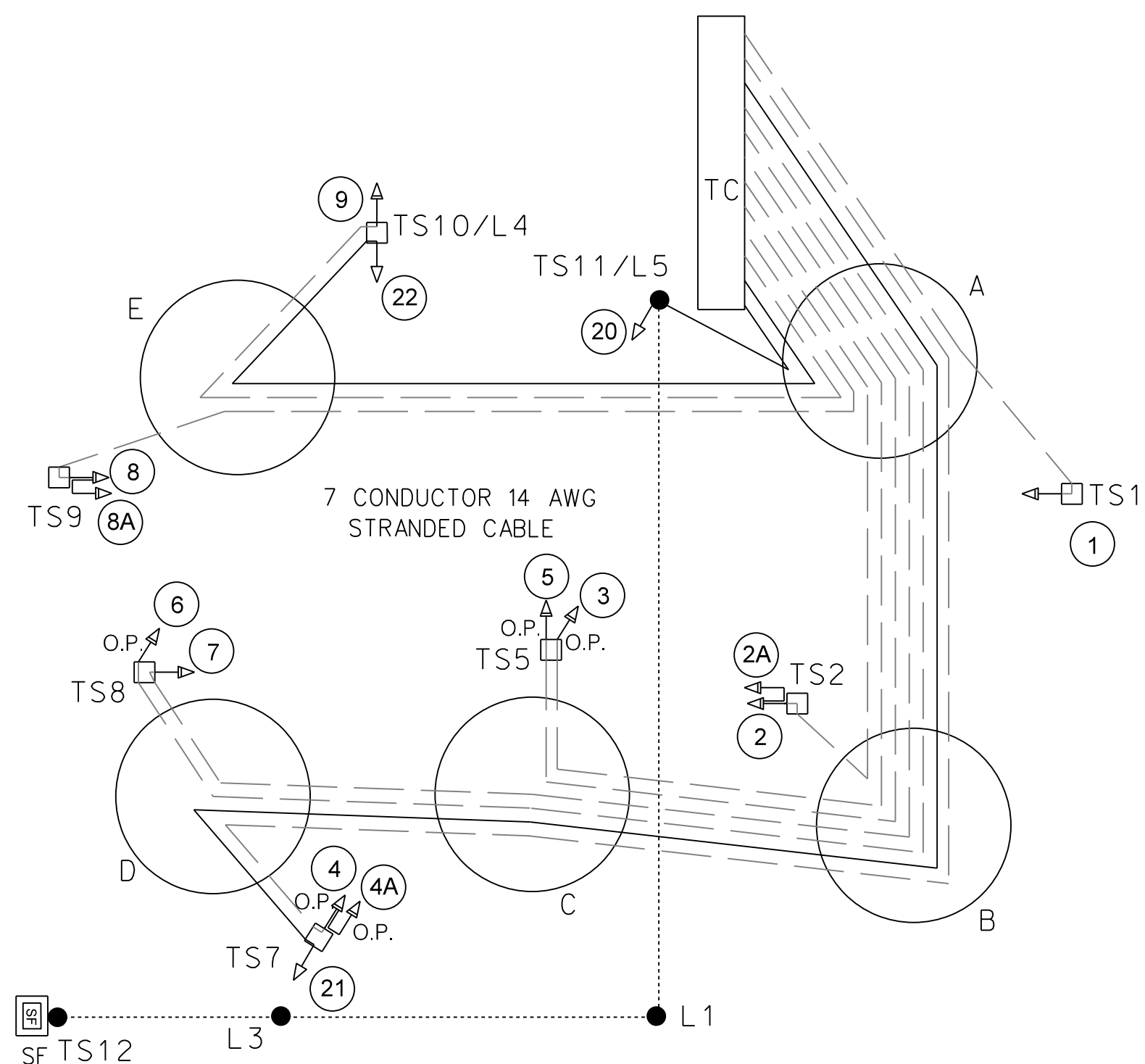
P:\80200\working-temp\work\_order\_25 - modification for 21st q and minnesota.se\signal\pSG-P101-80200-25.dgn 5/23/2022



DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.			

EXISTING AND PROPOSED TRAFFIC SIGNAL HEAD AND SCHOOL FLASHER CABLE SCHEMATIC



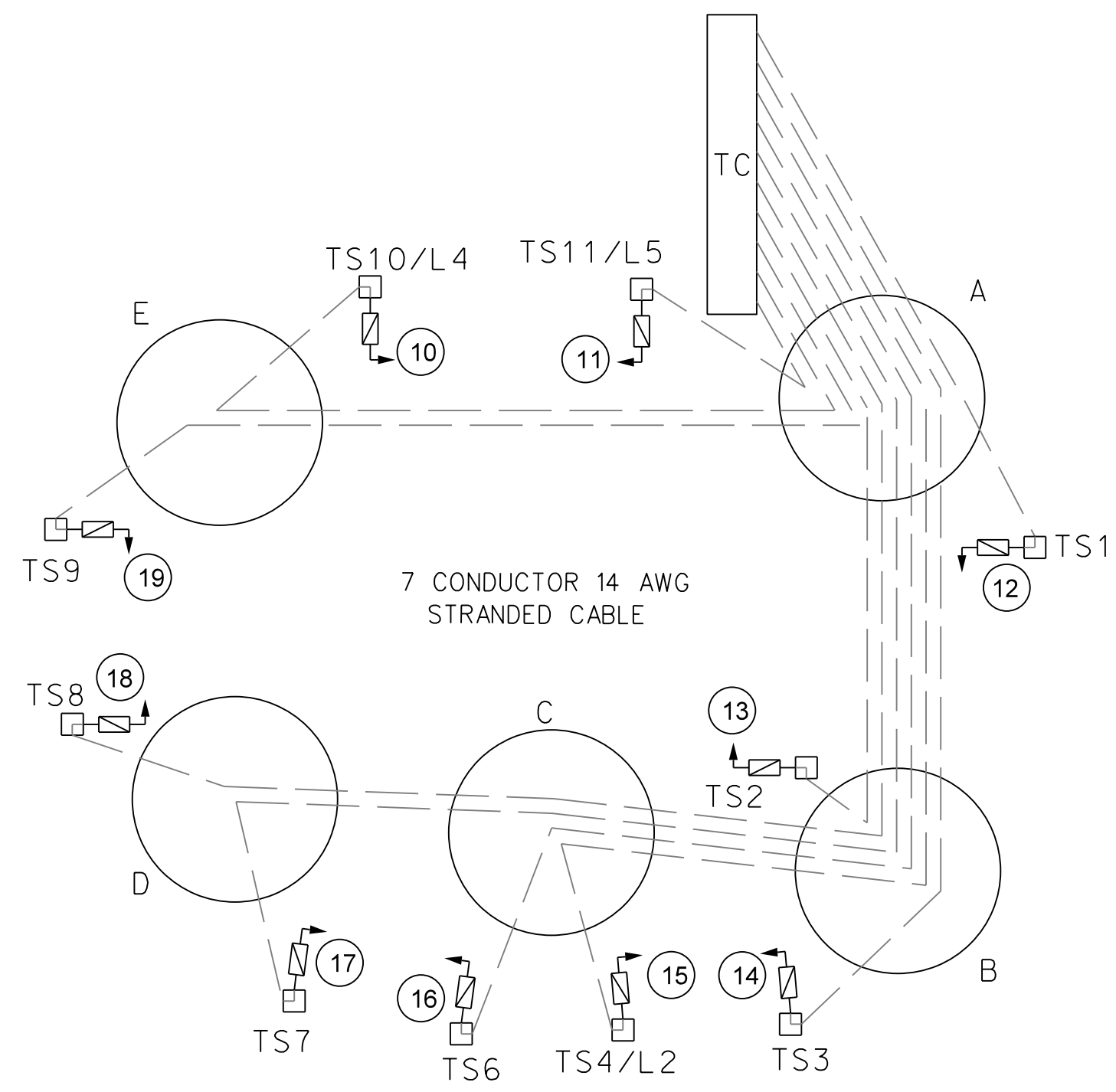
EXISTING TRAFFIC SIGNAL HEAD AND SCHOOL FLASHER CABLE ROUTING

- TC - A - [TS1] - 1
- TC - A - B - [TS2] - 2
- 2 - 2A
- TC - A - B - C - [TS5] - 3
- TC - A - B - C - D - [TS7] - 4
- 4 - 4A
- TC - A - B - C - [TS5] - 5
- TC - A - B - C - D - [TS8] - 6
- TC - A - B - C - D - [TS8] - 7
- TC - A - E - [TS9] - 8
- 8 - 8A
- TC - A - E - [TS10/L4] - 9
- TC - [TS11/L5] - 20
- TC - A - B - C - D - [TS7] - 21
- TC - A - E - [TS10/L4] - 22
- TC - A - TS11/15 - L1 - L3 - [TS12] - SF

LEGEND:

- PROPOSED UNDERGROUND
- - - EXISTING UNDERGROUND
- · · EXISTING OVERHEAD CABLE
- EXISTING WOOD POLE

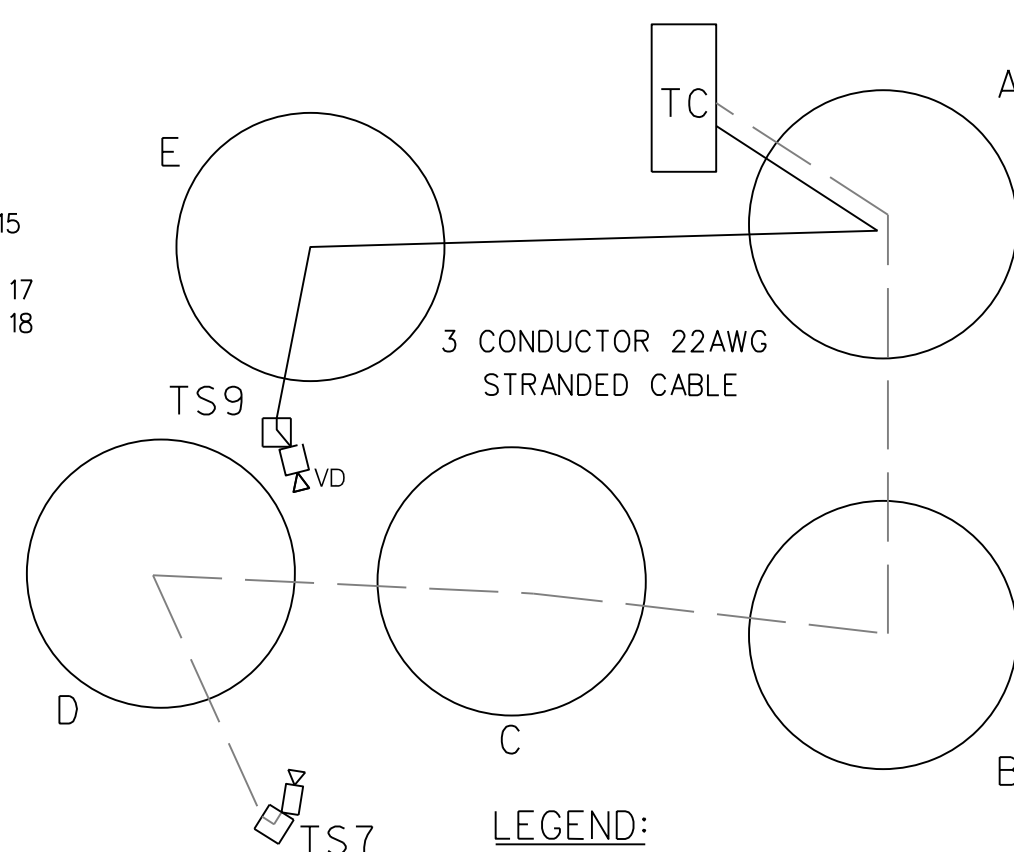
EXISTING PEDESTRIAN SIGNAL HEAD CABLE SCHEMATIC



EXISTING PEDESTRIAN SIGNAL HEAD CABLE ROUTING

- TC - A - E - [TS10/L4] - 10
- TC - A - [TS11/L5] - 11
- TC - A - [TS1] - 12
- TC - A - B - [TS2] - 13
- TC - A - B - [TS3] - 14
- TC - A - B - C - [TS4/L2] - 15
- TC - A - B - C - [TS6] - 16
- TC - A - B - C - D - [TS7] - 17
- TC - A - B - C - D - [TS8] - 18
- TC - A - E - [TS9] - 19

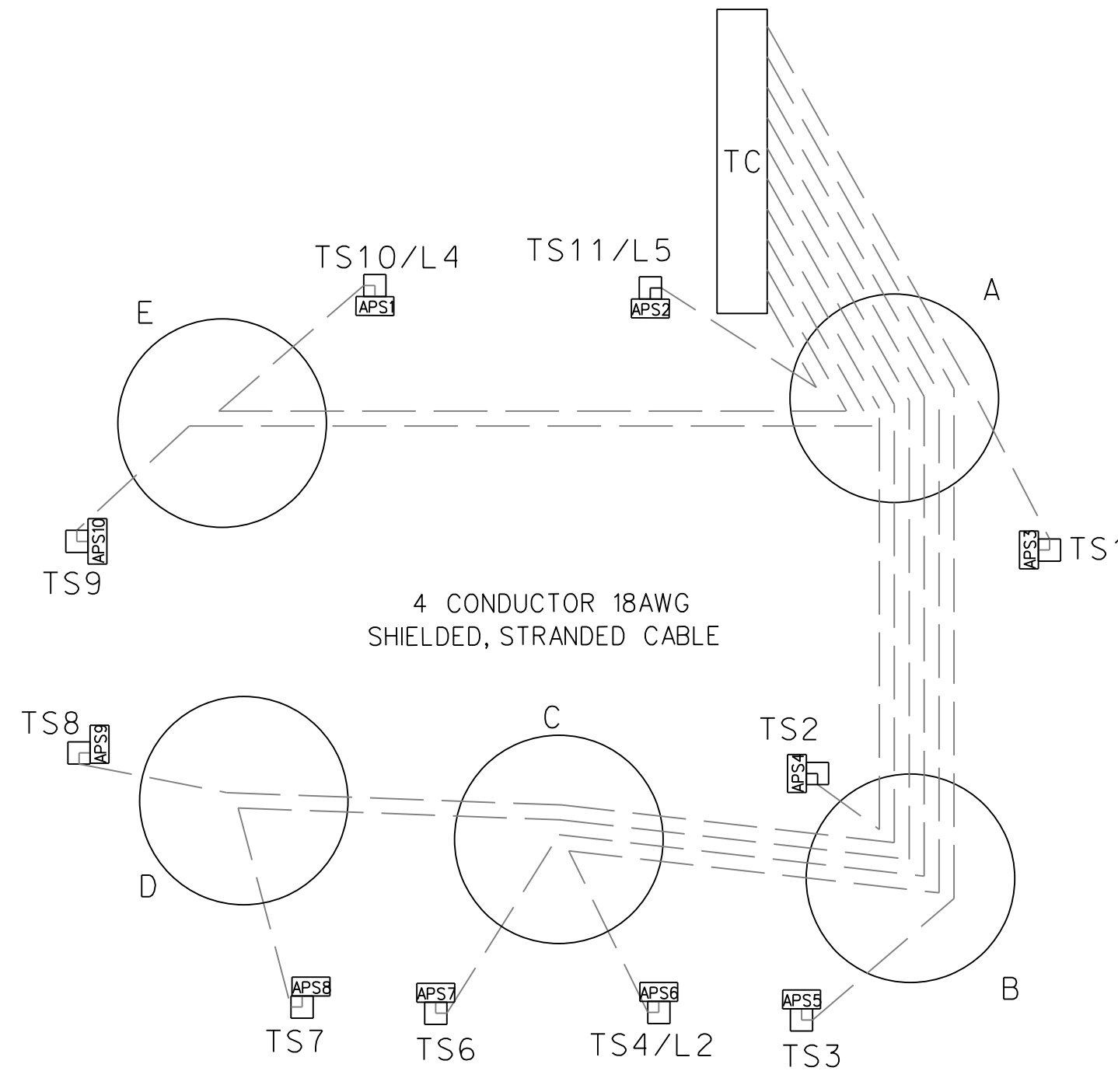
EXISTING AND PROPOSED VIDEO DETECTION CAMERA CABLE SCHEMATIC



LEGEND:

- PROPOSED CABLE
- - - EXISTING CABLE

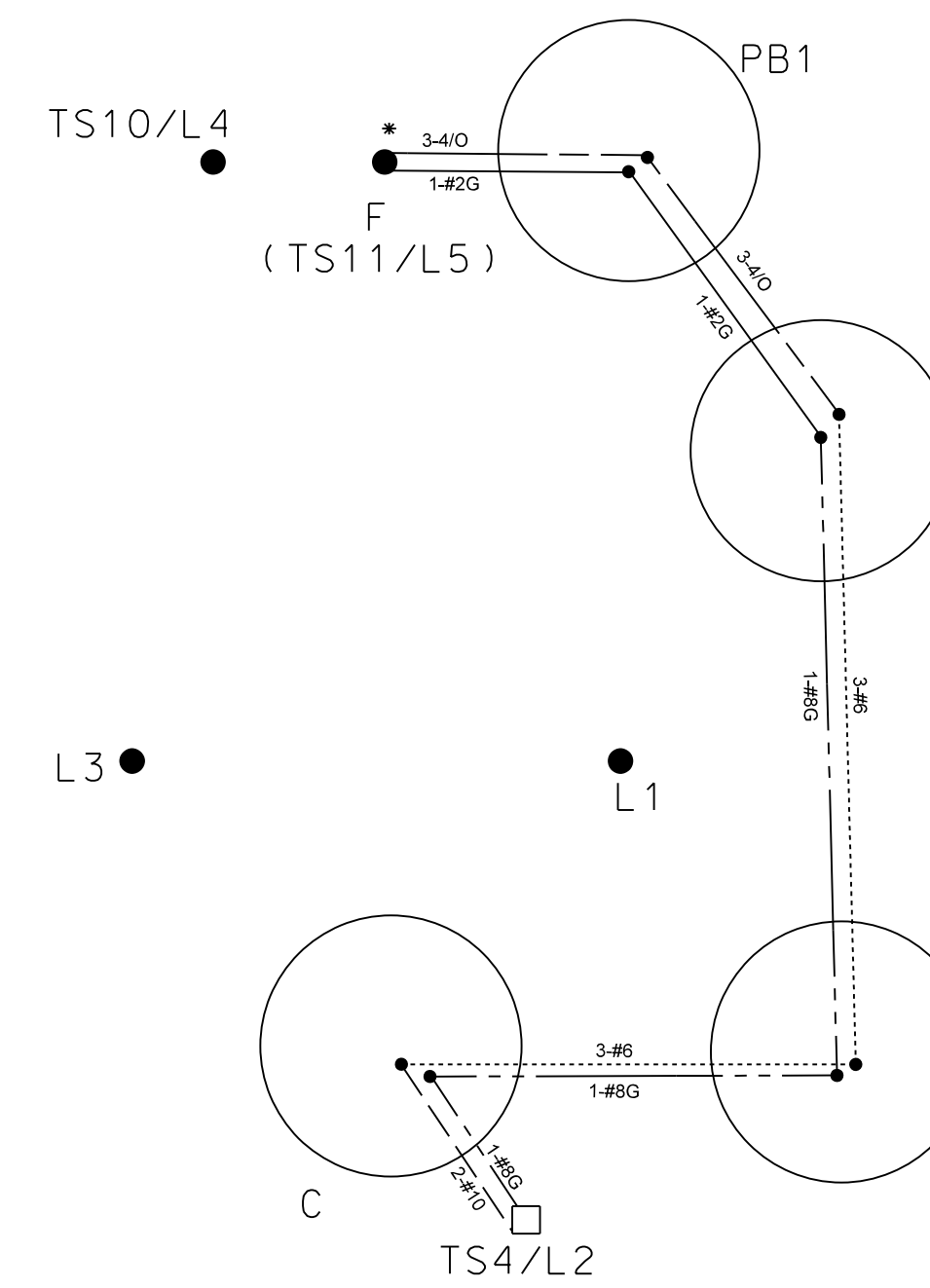
EXISTING ACCESSIBLE PEDESTRIAN SIGNAL (APS) CABLE SCHEMATIC



EXISTING ACCESSIBLE PEDESTRIAN SIGNAL (APS) CABLE ROUTING

- TC - A - E - [TS10/L4] - APS1
- TC - A - [TS11/L5] - APS2
- TC - A - [TS1] - APS3
- TC - A - B - [TS2] - APS4
- TC - A - B - [TS3] - APS5
- TC - A - B - C - [TS4/L2] - APS6
- TC - A - B - C - [TS6] - APS7
- TC - A - B - C - D - [TS7] - APS8
- TC - A - B - C - D - [TS8] - APS9
- TC - A - E - [TS9] - APS10

EXISTING STREETLIGHT CABLE SCHEMATIC



EXISTING STREETLIGHT CABLE LEGEND

- - - NO. 8 STRANDED BARE COPPER GROUND WIRE
- - - NO. 2 STRANDED BARE COPPER GROUND WIRE
- - - TWO NO. 10 STRANDED CABLES
- - - THREE NO. 6 STRANDED CABLES
- - - THREE 4/0 STRANDED CABLES
- SPLICE POINT
- EXISTING WOOD POLE

EXISTING STREETLIGHT CABLE ROUTING

- F - PB - A - B - C - [TS4/L2]

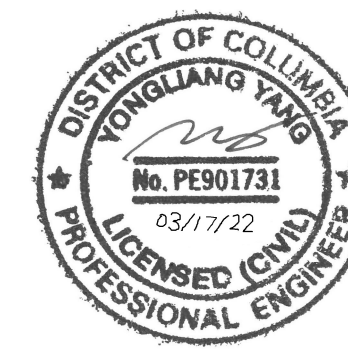
STREETLIGHT POLE INFORMATION (EXISTING)					
DRAWING	LOCATION	TYPE OF POLE	LIGHT SOURCE	LAMP WATTS	DATE IN SERVICE
L1	SE COR. OF NAYLOR STREET AND MINNESOTA AVENUE, S.E.	WOOD POLE	LED	110W	
TS4/L2	SW COR. OF NAYLOR STREET AND MINNESOTA AVENUE, S.E.	PEND POST	LED	110W	
L3	SW COR. OF 22ND STREET AND MINNESOTA AVENUE, S.E.	WOOD POLE	LED	110W	
TS10/L4	NW COR. OF NAYLOR ROAD AND MINNESOTA AVENUE, S.E.	WOOD POLE	LED	110W	
TS11/L5	NE COR. OF 22ND STREET AND MINNESOTA AVENUE, S.E.	WOOD POLE	LED	110W	

STATION SCHEDULE		
STATION	STATUS	DESCRIPTION
TC	EXISTING	TYPE 170E TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336SS CABINET AND AN EXTERNAL UNINTERRUPTED POWER SUPPLY SYSTEM
A	EXISTING	DDOT ELECTRICAL MANHOLE (4'x4'x4')
B	EXISTING	DDOT ELECTRICAL MANHOLE (3'x3'x3')
C	EXISTING	DDOT ELECTRICAL MANHOLE (3'x3'x3')
D	EXISTING	DDOT ELECTRICAL MANHOLE (3'x3'x3')
E	EXISTING	DDOT ELECTRICAL MANHOLE (3'x3'x3')
*F	EXISTING	PEPCO WOOD POLE
[TS1]	EXISTING	20-FOOT STEEL TRAFFIC SIGNAL POLE WITH A STEEL TRANSFORMER BASE
[TS2]	EXISTING	20-FOOT STEEL TRAFFIC SIGNAL POLE WITH A STEEL TRANSFORMER BASE AND AN 8-FOOT MAST ARM WITH CAP AND CLAMP
[TS3]	EXISTING	20-FOOT STEEL TRAFFIC SIGNAL POLE WITH A STEEL TRANSFORMER BASE
[TS4/L2]	EXISTING	28-FOOT STEEL PENDANT POST STREETLIGHT POLE WITH A STEEL TRANSFORMER BASE AND LUMINAIRE
[TS5]	EXISTING	20-FOOT STEEL TRAFFIC SIGNAL POLE WITH A STEEL TRANSFORMER BASE
[TS6]	EXISTING	20-FOOT STEEL TRAFFIC SIGNAL POLE WITH A STEEL TRANSFORMER BASE
[TS7]	EXISTING	20-FOOT STEEL TRAFFIC SIGNAL POLE WITH A STEEL TRANSFORMER BASE AND AN 8-FOOT MAST ARM WITH CAP AND CLAMP
[TS8]	EXISTING	20-FOOT STEEL TRAFFIC SIGNAL POLE WITH A STEEL TRANSFORMER BASE
[TS9]	EXISTING	20-FOOT STEEL TRAFFIC SIGNAL POLE WITH A STEEL TRANSFORMER BASE AND AN 8-FOOT MAST ARM WITH CAP AND CLAMP
[TS10/L4]	EXISTING	PEPCO WOOD POLE
[TS11/L5(F)]	EXISTING	PEPCO WOOD POLE WITH PROPOSED LUMINAIRE
[TS12]	EXISTING	PEPCO WOOD POLE
L2	EXISTING	PEPCO WOOD POLE WITH PROPOSED LUMINAIRE
L3	EXISTING	PEPCO WOOD POLE WITH PROPOSED LUMINAIRE
PB1	EXISTING	PULL BOX

CONDUIT SUMMARY				
LOCATION TO LOCATION	STATUS	SIZE (DIA.) (IN)	NUMBER OF CONDUITS	QUANTITY (FT)
TC - F*	EXISTING	2	1	8
TC - A	EXISTING	2,4	1,2	17
*F - A	EXISTING	2,4	1,2	12
A - PB1	EXISTING	4	1	12
A - B	EXISTING	4	4	68
A - E	EXISTING	4	4	91
B - C	EXISTING	4	4	45
C - D	EXISTING	4	4	66
A - [TS1]	EXISTING	2,4	1,1	11
B - [TS2]	EXISTING	2,4	1,1	14
B - [TS3]	EXISTING	2,4	1,1	15
C - [TS4/L2]	EXISTING	2,4	1,1	18
C - [TS5]	EXISTING	2,4	1,1	11
C - [TS6]	EXISTING	2,4	1,1	26
D - [TS7]	EXISTING	2,4	1,1	14
D - [TS8]	EXISTING	2,4	1,1	8
E - [TS9]	EXISTING	2,4	1,1	25
E - [TS10/L4]	EXISTING	2,4	1,1	7
A - [TS11/L5]	EXISTING	2,4	1,1	10

EXISTING AND PROPOSED VIDEO DETECTION CAMERA CABLE ROUTING

- TC - A - B - C - D - [TS7] - VD (EXISTING)
- TC - A - E - [TS9] - VD (PROPOSED)



S.L.F. NO. \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

SEQUENCE OF OPERATION DRAWING NO. TS-283-G, ACISA NO. 4132

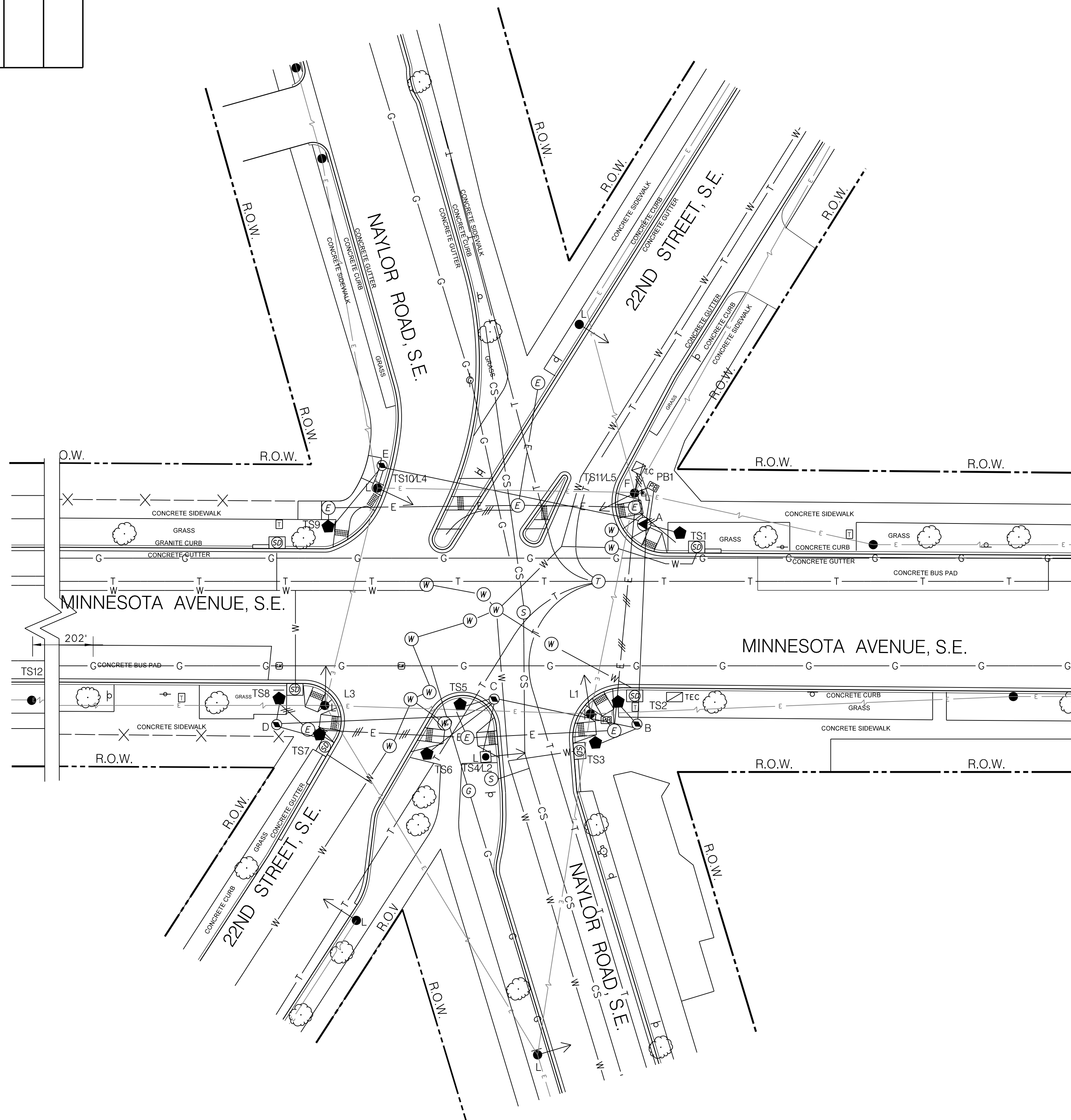
DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND SIGNALS DIVISION		FINAL
22ND STREET, MINNESOTA AVENUE AND NAYLOR ROAD, S.E. CABLE ROUTING AND SCHEMATIC PLAN		FIELD CHECKED BY AYY
DESIGNED BY AYY		DRAWN BY SDAS
REVIEWED BY AYY		DATE 03 / 22
SUBMITTED BY TRAFFIC SIGNAL PROJECT ENGINEER	DATE	SCALE N.T.S.
RECOMMENDED TRAFFIC SIGNAL DESIGN PROJECT MANAGER	DATE	SHEET 2 / 3
ITS / TRAFFIC SIGNAL MAINTENANCE DIVISION MANAGER	DATE	DRAWING NO. S-1867-D
APPROVED TRAFFIC SIGNAL PROGRAM MANAGER	DATE	

DESCRIPTION	REVISION						
	DATE	COR.	CHK.	APP.	APP.	APP.	APP.

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.			

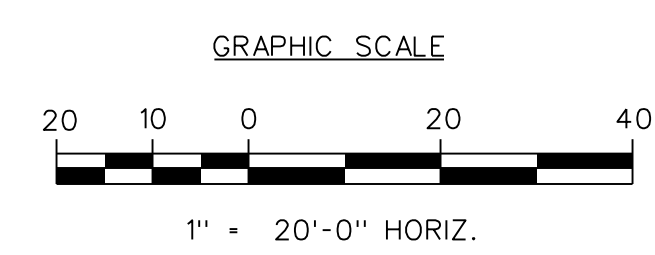
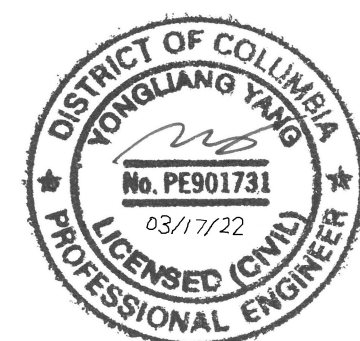
**UTILITY NOTES:**

1. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD SURVEY DATA AND/OR RECORD DRAWINGS. THE LOCATION OF UTILITIES SHOWN IS APPROXIMATE AND THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS WHICH COULD DAMAGE THESE FACILITIES. IN AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES. IF A UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER OF SAID UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW THE GROUND SHALL BE REPAIRED BY OR UNDER THE DIRECTION OF THE OWNER AT CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR BACKFILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.
2. THE CONTRACTOR SHALL EXCAVATE AND LOCATE VERTICALLY AND HORIZONTALLY ALL UTILITIES IN CLOSE PROXIMITY TO THE PROPOSED TRAFFIC SIGNAL WORK AREA AS NECESSARY FOR CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO EXCAVATING.
4. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 2-FOOT HORIZONTAL CLEARANCE TO ALL UTILITIES DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PROPOSED CONDUITS.

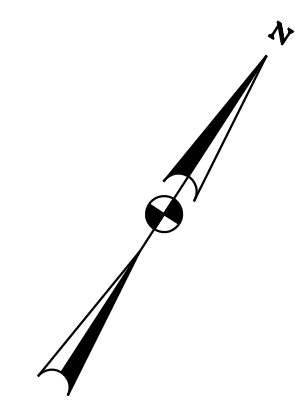


**LEGEND:**

- TC □ EXISTING TRAFFIC SIGNAL CONTROLLER
- TEC □ EXISTING TRAFFIC SIGNAL COMMUNICATION CABINET
- ◆ EXISTING 20-FOOT STEEL TRAFFIC SIGNAL POLE WITH A TRANSFORMER BASE
- EXISTING WOOD POLE
- EXISTING WOOD POLE WITH LUMINAIRE
- EXISTING 28.5-FOOT STEEL PENDANT POST STREETLIGHT POLE WITH LUMINAIRE AND A STEEL TRANSFORMER BASE
- EXISTING LUMINAIRE AND SUPPORT ARM INDICATING DIRECTION OF LIGHT
- ▭ EXISTING WHEELCHAIR RAMP
- EXISTING TREE
- EXISTING TRAFFIC SIGN AND POST
- EXISTING TRAFFIC SIGN AND POST
- EXISTING BUS STOP SIGN AND POST
- EXISTING TRASH RECEPTACLE
- EXISTING CATCH BASIN(S)
- EXISTING FIRE HYDRANT
- W ● EXISTING WATER MANHOLE
- S ● EXISTING SEWER MANHOLE
- G ● EXISTING GAS MANHOLE
- EXISTING GAS VALVE
- EXISTING GAS METER
- EXISTING TELEPHONE MANHOLE
- E ● EXISTING PEPCO ELECTRICAL MANHOLE
- EXISTING PULL BOX
- ▲ EXISTING DDOT MANHOLE (4'X4')
- EXISTING DDOT MANHOLE (3'X3')
- \* EXISTING LOCATION FOR PEPCO POWER CONNECTION
- W — EXISTING WATER LINE
- CS — EXISTING SEWER LINE
- T — EXISTING TELEPHONE LINE
- G — EXISTING GAS LINE
- E — EXISTING ELECTRICAL LINE
- E — EXISTING ELECTRICAL LINE TO BE ABANDONED
- E — EXISTING DDOT ELECTRICAL LINE
- E — EXISTING OVERHEAD ELECTRICAL LINE
- E — PROPOSED OVERHEAD ELECTRICAL LINE
- E — EXISTING DDOT ELECTRICAL CONDUIT
- X — EXISTING METAL FENCE
- — R.O.W. — RIGHT OF WAY LINE



S.L.F. NO. \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_



SEQUENCE OF OPERATION DRAWING NO. TS-283-G, ACISA NO. 4132

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND SIGNALS DIVISION		FINAL
22ND STREET, MINNESOTA AVENUE AND NAYLOR ROAD, S.E. UTILITY PLAN		FIELD CHECKED BY AYY
DESIGNED BY AYY		DESIGNED BY AYY
DRAWN BY SDAS		DRAWN BY SDAS
REVIEWED BY AYY		REVIEWED BY AYY
SUBMITTED BY TRAFFIC SIGNAL PROJECT ENGINEER	DATE	DATE 03 / 22
RECOMMENDED TRAFFIC SIGNAL DESIGN PROJECT MANAGER	DATE	SCALE 1" = 20'
ITS /TRAFFIC SIGNAL MAINTENANCE DIVISION MANAGER	DATE	SHEET 3
APPROVED TRAFFIC SIGNAL PROGRAM MANAGER	DATE	OF 3
DRAWING NO. S-1867-D		