

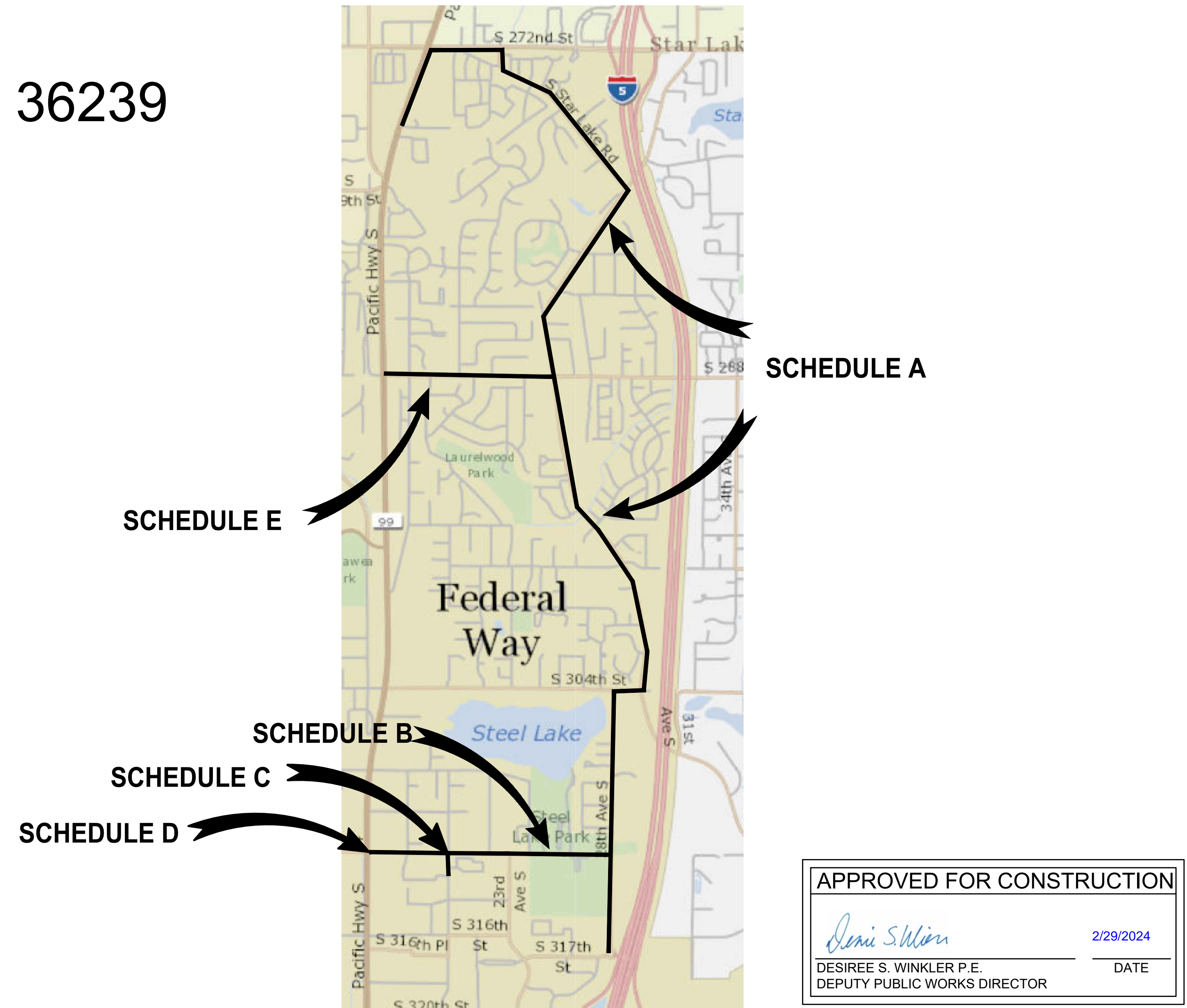
City of Federal Way Public Works Department

FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

PROJECT # 36239

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SHEET NUMBER	SHEET TITLE	SHEET DESCRIPTION
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20	DT 2	FIBER CABINET DETAIL 2
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31	TC 1	TRAFFIC CONTROL
32	TC 2	TRAFFIC CONTROL
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34	TC 4	TRAFFIC CONTROL
35	TC 5	TRAFFIC CONTROL
36	TC 6	TRAFFIC CONTROL
37	TC 7	TRAFFIC CONTROL
38	TC 8	TRAFFIC CONTROL
39	TC 9	TRAFFIC CONTROL



APPROVED FOR CONSTRUCTION

Desiree S. Winkler 2/29/2024

DESIREE S. WINKLER P.E. DATE

DEPUTY PUBLIC WORKS DIRECTOR

RFB# #24-003

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BID SET



DRAFTED: J. COLE
DESIGNED: J. COLE
REVIEWED: C. MULLEN
APPROVED: C. MULLEN



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

COVER

CITY PROJECT #:
36239

SHEET
COVER

01 OF 39

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LEGEND

EXISTING	
MIC	MONUMENT IN CASE
MON	SURFACE MONUMENT
△	PK NAIL
RC	REBAR & CAP
⊗	SPOT SHOT (DESCRIBED)
□	CATCH BASIN
⊕	STORM DRAIN MANHOLE
⊖	YARD DRAIN
⊙	DOWNSPOUT
SD	STORM DRAIN CLEAN-OUT
^	CULVERT
○	SEWER MANHOLE
SS	SEWER CLEAN-OUT
⊖	POWER POLE
⊖	POWER POLE W/UNDERGROUND CONNECT
⊖	POWER POLE WITH LUMINAIRE
⊖	PWR POLE W/LUMINAIRE & UNDRD CONNECT
⊕	POWER MANHOLE
P	POWER RISER
P	POWER VAULT LID
△	POWER TRANSFORMER
⊖	POWER METER
⊖	POWER OUTLET
⊖	HIGH VOLTAGE POWER POLE
⊖	HIGH VOLTAGE PWR POLE W/UNDRD CONNECT
⊖	GUY POLE
→	GUY ANCHOR
⊖	TRAFFIC SIGNAL
⊖	TRAFFIC SIGNAL WITH LUMINAIRE
⊖	PEDESTRIAN SIGNAL
⊖	JUNCTION BOX
⊖	TRAFFIC CONTROL CABINET
BPS	BACKUP POWER SUPPLY
⊖	INTERCONNECT CABINET
⊖	ELECTRICAL SERVICE CABINET
⊖	TRAFFIC ATTENUATOR LOOP
⊖	STREET LIGHT (LUMINAIRE)
⊖	LOT LIGHT
⊖	YARD LIGHT
⊖	RAILROAD CROSSING ARM
⊖	RAILROAD CROSSING SIGNAL
⊕	TELEPHONE MANHOLE
T	TELEPHONE RISER
⊖	TELEPHONE VAULT LID
⊖	TELEPHONE POLE
TV	TV MANHOLE
TV	TV RISER
TV	TV VAULT LID
FO	FIBER OPTIC MANHOLE
FO	FIBER OPTIC VAULT LID
G	GAS VALVE
G	GAS METER
G	GAS MANHOLE
W	WATER VALVE
W	WATER METER
W	WATER MANHOLE
W	WATER VAULT LID
⊖	FIRE HYDRANT
⊖	BLOW-OFF
⊖	FIRE DEPARTMENT CONNECT
⊖	POST INDICATOR VALVE
⊖	HOSE BIB
⊖	IRRIGATION CONTROL VALVE
⊖	UTILITY MANHOLE (GENERIC/UNK)
U	UTILITY VAULT LID (GENERIC/UNK)
CO	UTILITY CLEAN-OUT (GENERIC/UNK)
UR	UTILITY RISER (GENERIC/UNK)
SP	STAND-PIPE (GENERIC/UNK)
U	UTILITY ACCESS (GENERIC/UNK)
●	BORE SITE (WITH FIELD DESC)
⊖	MONITORING WELL
GP	GUARD POST
O	BOULDER
H	SIGN
M	MAILBOX (# OF BOXES)
S	SHRUB
XX	STUMP, DIAMETER
XX	SNAG, DIAMETER (# OF TRUNKS)
XX	DECIDUOUS TREE, DIA (# OF TRUNKS)
XX	CONIFEROUS TREE, DIA (# OF TRUNKS)
P	PAINTED POWER
P	RECORD POWER
T	PAINTED TELEPHONE
T	RECORD TELEPHONE
FD	PAINTED FIBER OPTIC
TV	PAINTED TV
W	PAINTED WATER
W	RECORD WATER
G	PAINTED GAS
G	RECORD GAS
DH	OVERHEAD UTILITY LINE (GENERIC)
SD	STORM
S	SEWER
X	FENCE
H	HEDGE (HEIGHT NOTED)
///	BUILDING
—	PAINTED STRIPE
—	PAINTED SKIP STRIPE
—	RAISED-BUTTON SOLID STRIPE
—	RAISED-BUTTON SKIP STRIPE
—	EDGE OF PAVEMENT
—	FLOWLINE
—	CONTOUR
—	RIGHT OF WAY LINE
AC	CONCRETE
CHLK	GRAVEL
DWY	GRASS
COL	ROCKERY
YD	BRICK
STCR	METAL GRATE
FF	ASPHALT/CONCRETE
CHLK	CHAINLINK
DWY	DRIVEWAY
COL	COLUMN
YD	YARD DRAIN
STCR	STRUCTURE
FF	FINISHED FLOOR

PROPOSED

⊕	MONUMENT	XXX	CONTOUR
⊕	STORMDRAIN MANHOLE	—	EDGE OF PAVEMENT
■	CATCH BASIN	—	CONCRETE CURB & GUTTER
⊕	AREA DRAIN	—	SAWCUT
SD	STORMDRAIN CLEAN-OUT	SD	STORMDRAIN
^	CULVERT	SS	SANITARY SEWER
⊕	SEWER MANHOLE	W	WATER
⊖	SIGN	UE	UNDERGROUND POWER
JB	JUNCTION BOX, SEE WSDOT STD. PLAN J-40.10-04	TEL	TELECOMMUNICATION
+	BORE / POT HOLE LOCATION	OE	OVERHEAD UTILITY LINE
⊖	STREET LIGHT (LUMINAIRE)	FO	CITY FIBER
⊖	PEDESTRIAN PUSHBUTTON POLE	x	FENCE - CHAINLINK
⊖	TRAFFIC / ILLUM J-BOX	o	FENCE - WOOD
⊖	TRAFFIC CONTROL CABINET		
BPS	BACKUP POWER SUPPLY		
⊖	ELECTRICAL SERVICE CABINET		
FO	CITY FIBER OPTIC VAULT / SMALL CABLE VAULT, SEE WSDOT STD. PLAN J-90.21-02		
⊖	POWER POLE		
→	POWER POLE GUY ANCHOR		
⊖	POWER POLE W/ LUMINAIRE		
P	POWER VAULT LID / J-BOX		
△	POWER TRANSFORMER		
⊖	POWER METER		
T	TELECOMM VAULT / J-BOX		
FED	UTILITY PEDESTAL		
⊖	GAS VALVE		
⊖	GAS METER		
⊖	WATER VALVE		
⊖	WATER METER		
W	WATER VAULT LID		
⊖	FIRE HYDRANT		
PB	PULL BOX, SEE WSDOT STD. PLAN J-90.10-03		

ABBREVIATIONS

ABND	ABANDONED	MW	MONITORING WELL
AC	ASPHALT	N	NORTHING/NORTH
AC	ASBESTOS CEMENT WATER PIPE	NO	NUMBER
ACP	ASPHALT CONCRETE PAVEMENT	NTS	NOT TO SCALE
ADA	AMERICANS WITH DISABILITIES ACT	OC	ON CENTER
AP	ANGLE POINT	OD	OUTSIDE DIAMETER
AVE	AVENUE	OH	OVERHEAD UTILITIES
BLDG	BUILDING	PC	POINT OF CURVATURE
BMP	BEST MANAGEMENT PRACTICE	PCC	POINT OF CURVE ON CURVE
BOW	BACK OF WALK	PE	POLYETHYLENE
CB	CATCH BASIN	PG	PERFORMANCE GRADE
CDF	CONTROLLED DENSITY FILL	PI	POINT OF INTERSECTION
CI	CAST IRON	PIV	POST INDICATOR VALVE
CL	CENTERLINE	POB	POINT OF BEGINNING
CL	CLASS	POC	POINT OF CONNECTION
CO	CLEANOUT	POE	POINT OF ENDING
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CONT	CONTAINER	PT	POINT OF TANGENCY
DCVA	DOUBLE CHECK VALVE ASSEMBLY	PVC	POLYVINYL CHLORIDE
DI	DUCTILE IRON	PVI	POINT OF VERTICAL INTERSECTION
DIA #	DIAMETER	R	RADIUS
CFW	CITY OF FEDERAL WAY	RJ	RESTRAINED JOINT
CSBC	CRUSHED SURFACING BASE COURSE	RT	RIGHT
E	EASTING/EAST	S	SLOPE/SOUTH
EL	ELEVATION	SD	STORM DRAIN
ELEV	ELEVATION	SDP	STORM DRAIN PIPE
EOP	EDGE OF PAVEMENT	SEW	SEWER
EX	EXISTING	SHT	SHEET
EXIST	EXISTING	SSMH	SANITARY SEWER MANHOLE
FDC	FIRE DEPARTMENT CONNECTION	ST	STREET
FG	FINISHED GRADE	STA	STATION
FL	FLANGE	STD	STANDARD
FL	FLOWLINE	T	TANGENT LENGTH
HORIZ	HORIZONTAL	T1	TYPE 1 CATCH BASIN
HMA	HOT MIX ASPHALT	T2	TYPE 2 CATCH BASIN
ICV	IRRIGATION CONTROL VALVE	TOC	TOP OF CURB
ID	INSIDE DIAMETER	TOG	TOP OF GRATE
IE	INVERT ELEVATION	TYP	TYPICAL
L	LENGTH OF CURVE	VC	VERTICAL CURVE
LT	LEFT	VERT	VERTICAL
LF	LINEAR FEET	VLT	VAULT
LP	LOW POINT	W	WEST / WITH
MAX	MAXIMUM	WAT	WATER
MIN	MINIMUM	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
MH	MANHOLE		
MIC	MONUMENT IN CASE		
MJ	MECHANICAL JOINT		

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BID SET

CITY OF Federal Way
Centered on Opportunity
33325 8TH AVE S FEDERAL WAY, WA 98003
PHONE: (253) 835-2700
WWW.CITYOFFEDERALWAY.COM

811
Know what's below.
Call before you dig.

DRAFTED:	J. COLE
DESIGNED:	J. COLE
REVIEWED:	C. MULLEN
APPROVED:	C. MULLEN

CHRISTINE J. MULLEN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
2024/Feb/29

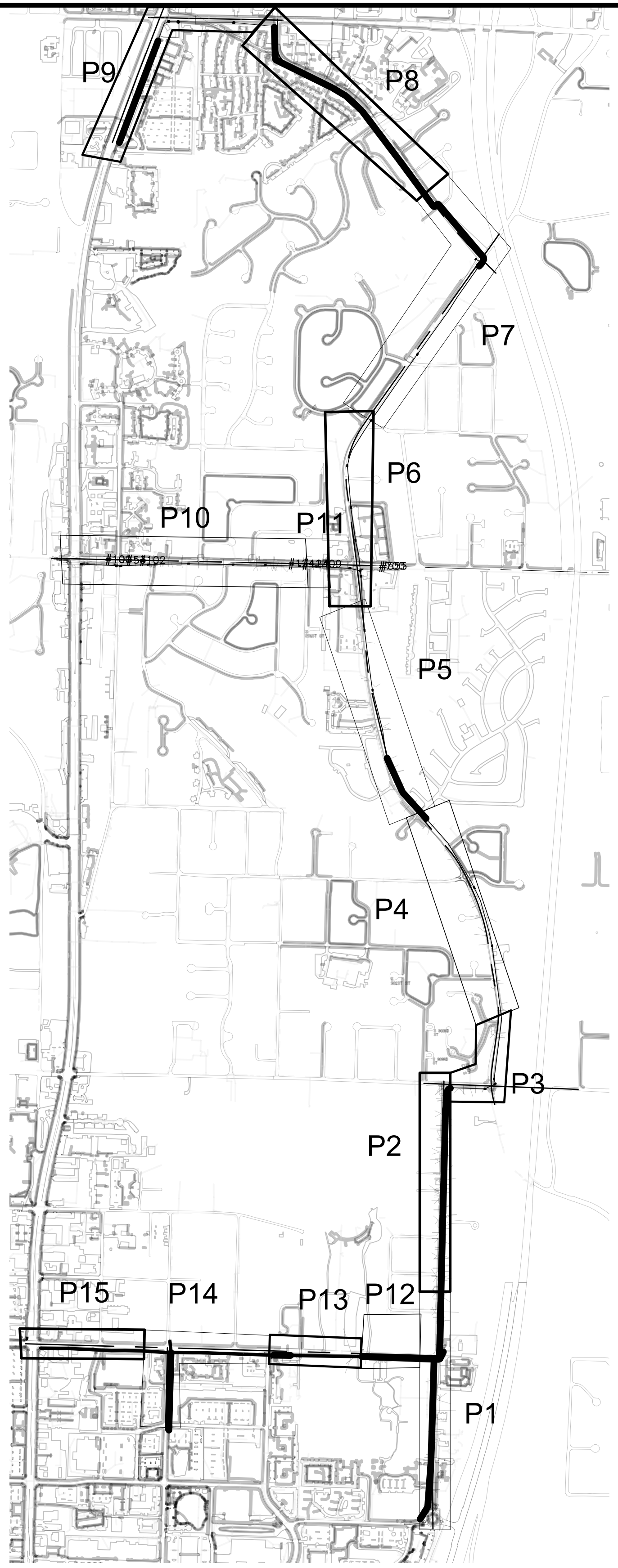
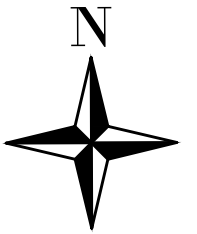
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NO.	DATE	REVISION

FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

LEGEND

CITY PROJECT #:	36239
SHEET	02
	02 OF 39

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BID SET
CITY PROJECT #:
36239
SHEET
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03 OF 39

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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
KEY PLAN

k:\engineering\division\PROJECTS\ACTIVE\36239 - fiber optic loop - 317th to 272nd\03 PE\ACAD\04 KEY PLAN.dwg, 2/1/2024

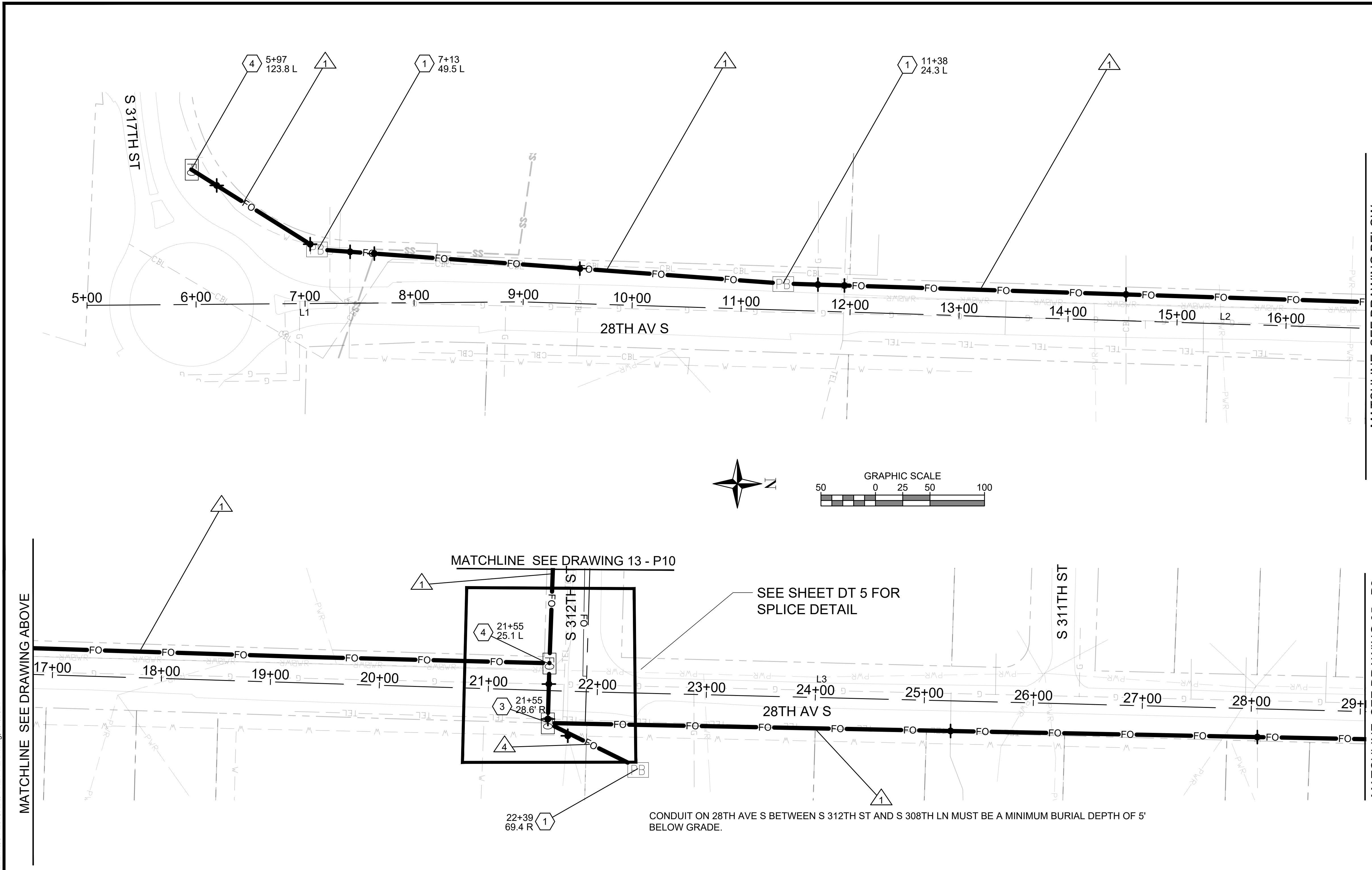
GENERAL NOTES:

1. THE FIBER PATH AND VAULT LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION AND REROUTE THE PATH AND LOCATIONS AS NECESSARY TO AVOID CONFLICTS WITH EXISTING UTILITIES AND OTHER FACILITIES. ALL COSTS ASSOCIATED WITH THE RELOCATION OF PATHS AND LOCATIONS DUE TO CONFLICTS WITH EXISTING UTILITIES SHALL BE INCLUDED IN THE "FIBER SYSTEM, COMPLETE" BID ITEM.
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3. EXISTING PRIVATE IRRIGATION SYSTEMS ARE LOCATED THROUGHOUT THE PROJECT AND IN SOME CASES EXTEND INTO THE ROADWAY ROW. THE CONTRACTOR SHALL COORDINATE WITH EACH PROPERTY OWNER BEFORE CUTTING AND CAPPING THESE IRRIGATION LINES TO INSURE THE IRRIGATION SYSTEM CAN OPERATE PROPERLY THROUGHOUT THE CONSTRUCTION.

CONDUIT AND WIRING SCHEDULE				
NO.	CONDUIT	SYSTEM	FIBER	COMMENTS
1	(2) - 4"	INTERCONNECT	72 CT	CONDUIT PLACED BY DIRECTIONAL BORE OR OPEN CUT
2	(1) - 1.5"	INTERCONNECT	72 CT	REMOVE COPPER INTERCONNECT CABLE AND REPLACE WITH FIBER
3	(1) - 4"	INTERCONNECT	72 CT	CONDUIT INSTALLED BY SOUND TRANSIT
4	(1) - 4"	INTERCONNECT		EMPTY CONDUIT
5	(1) - 2"	INTERCONNECT	72 CT	REMOVE COPPER INTERCONNECT CABLE AND REPLACE WITH FIBER

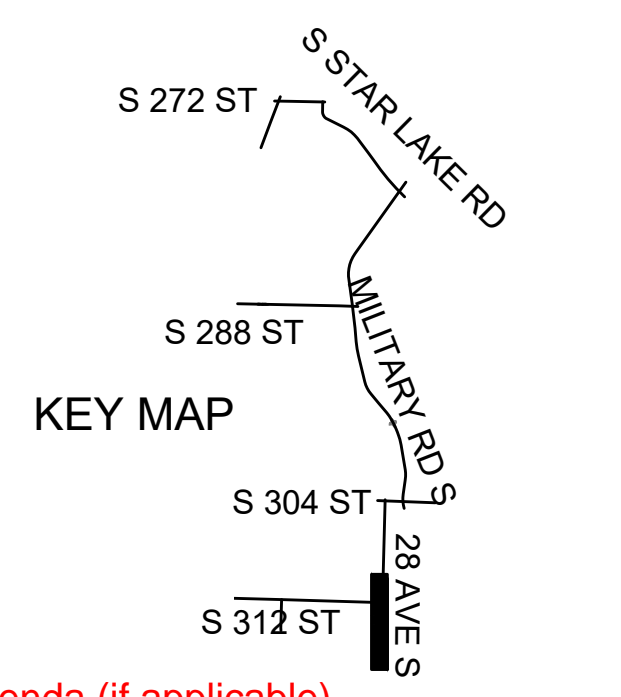
- NOTES: 1. MINIMUM 2' COVER
 2. HDPE CONDUIT WITH CONDUCTORS SHALL CONTAIN GROUND WIRE. SEE WSDOT STD. PLAN J-28.70-01. #8 MINIMUM GROUND WIRE IN ALL NEW CONDUIT.
 3. ALL CONDUIT SHALL CONTAIN DETECTABLE MULE TAPE.

CONSTRUCTION NOTES	
1	PULL BOX, SEE WSDOT STD. PLAN -90.10-03
2	SMALL CABLE VAULT, SEE WSDOT STD. PLAN J-90.21-02
3	EXISTING VAULT TO BE REPLACED WITH LOCKING LID STANDARD DUTY JUNCTION BOX TYPE 2, SEE WSDOT STD. PLAN J-40.10-04
4	EXISTING VAULT TO REMAIN
5	CEMENT CONC. SIDEWALK
6	PATCH PANEL IN TRAFFIC SIGNAL CONTROL CABINET



MATCHLINE SEE DRAWING BELOW

MATCHLINE SEE DRAWING 05 - P2



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BID SET
 CITY PROJECT #:
36239
 SHEET
P1
 04 OF 39

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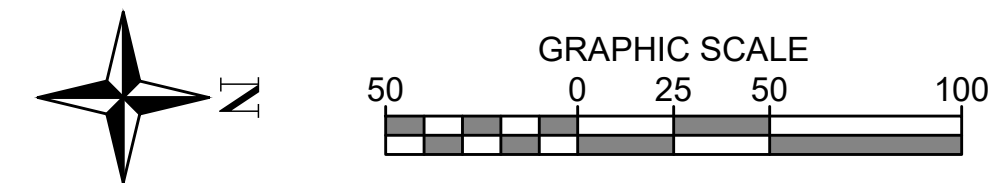
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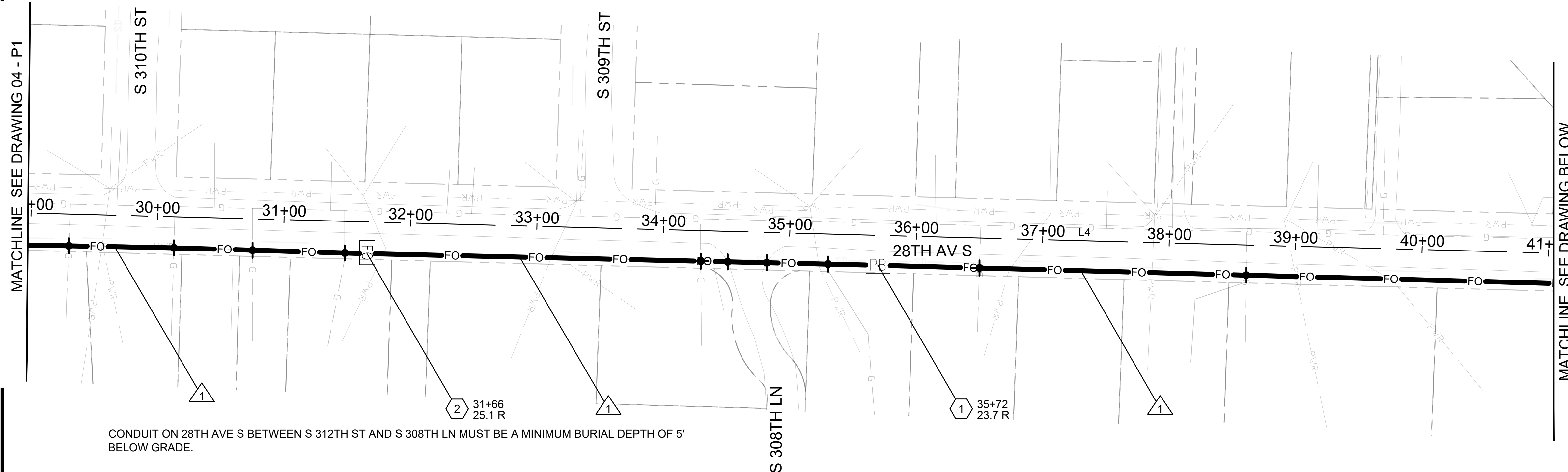
FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SCHEDULE A
 5+00 - 29+00

K:\engineering\division\PROJECTS\ACTIVE\18239 - fiber optic loop - 317th to 272nd\03 PE\ACAD\04 KEY PLAN.dwg, 2/1/2024



GENERAL NOTES:

1. THE FIBER PATH AND VAULT LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION AND REROUTE THE PATH AND LOCATIONS AS NECESSARY TO AVOID CONFLICTS WITH EXISTING UTILITIES AND OTHER FACILITIES. ALL COSTS ASSOCIATED WITH THE RELOCATION OF PATHS AND LOCATIONS DUE TO CONFLICTS WITH EXISTING UTILITIES SHALL BE INCLUDED IN THE "FIBER SYSTEM, COMPLETE" BID ITEM.
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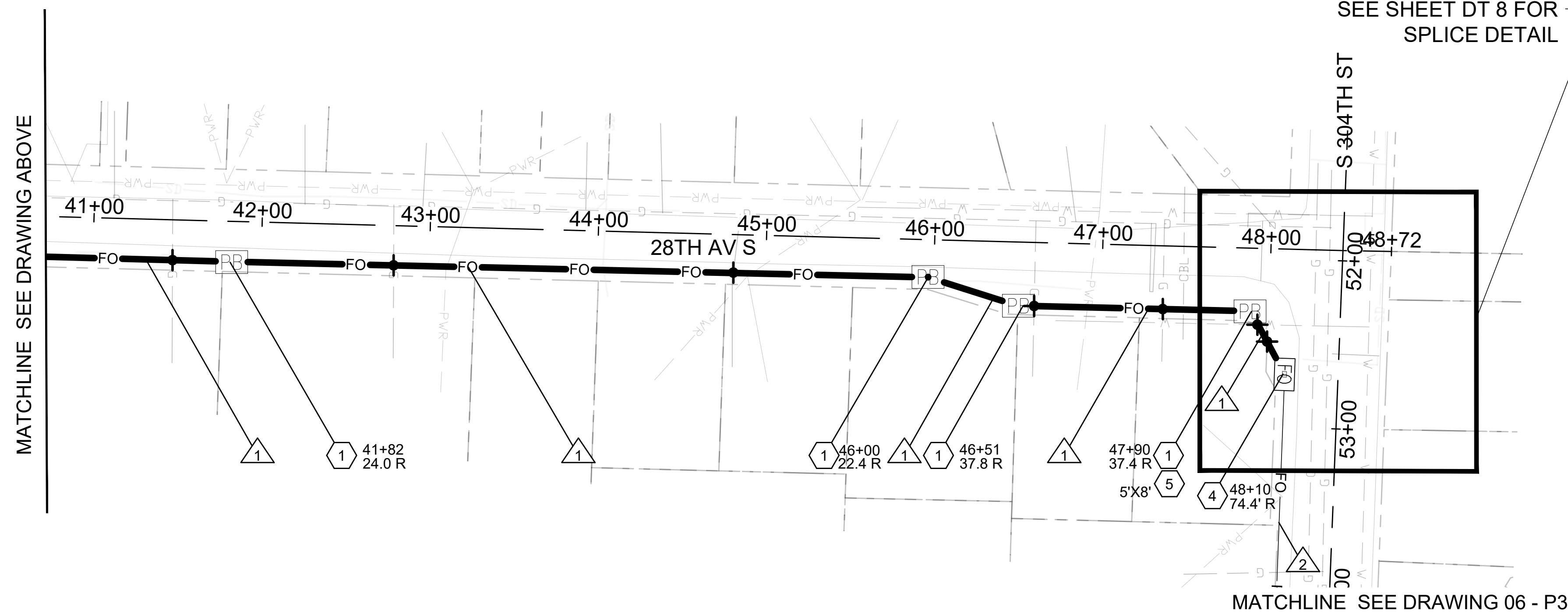


CONDUIT ON 28TH AVE S BETWEEN S 312TH ST AND S 308TH LN MUST BE A MINIMUM BURIAL DEPTH OF 5' BELOW GRADE.

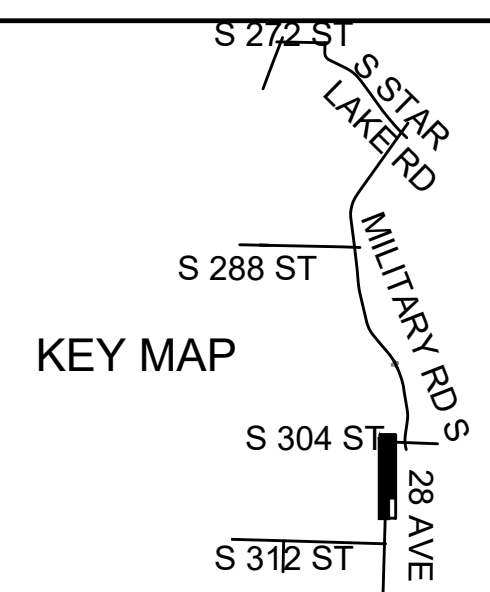
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4	(1) - 4"	INTERCONNECT		EMPTY CONDUIT
5	(1) - 2"	INTERCONNECT	72 CT	REMOVE COPPER INTERCONNECT CABLE AND REPLACE WITH FIBER

- NOTES: 1. MINIMUM 2' COVER
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4	EXISTING VAULT TO REMAIN
5	CEMENT CONC. SIDEWALK
6	PATCH PANEL IN TRAFFIC SIGNAL CONTROL CABINET



SEE SHEET DT 8 FOR SPLICE DETAIL

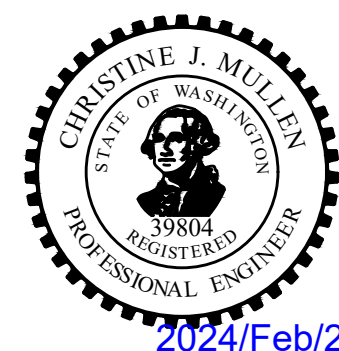


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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

SCHEDULE A
 29+00 - 54+00

CITY PROJECT #:

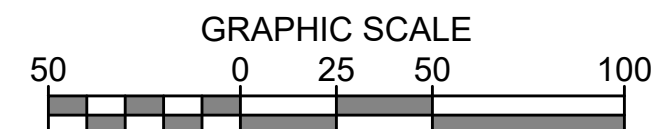
36239

SHEET

P2

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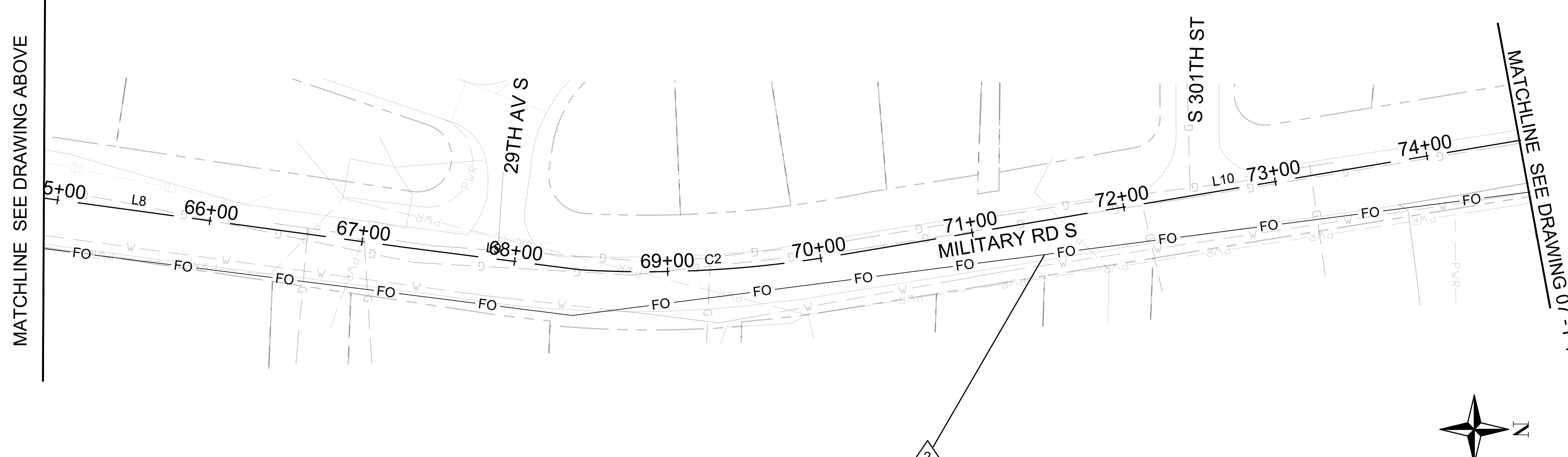
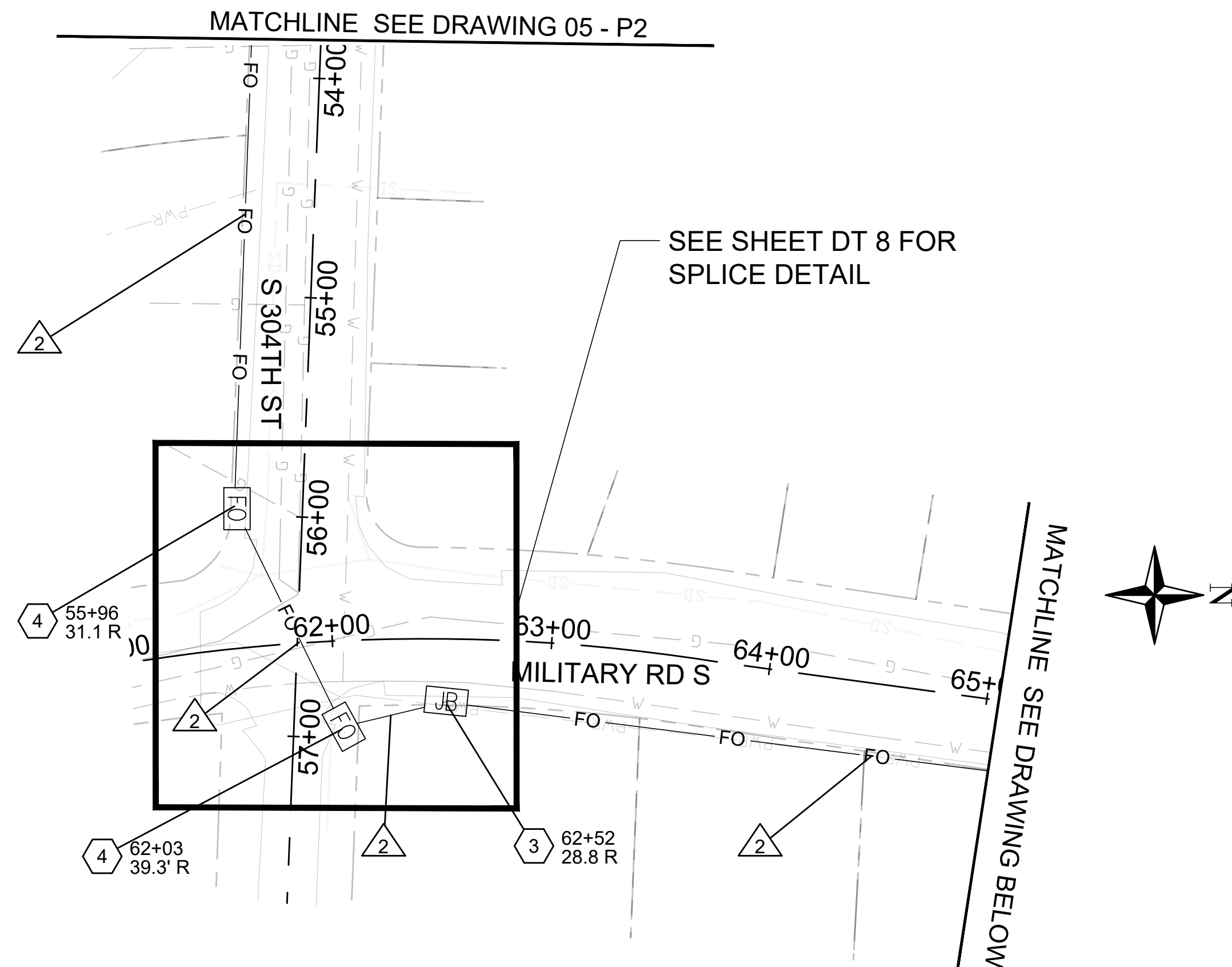
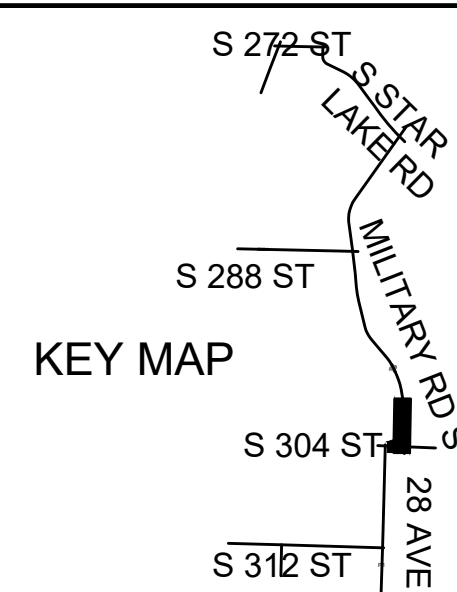
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2	SMALL CABLE VAULT, SEE WSDOT STD. PLAN J-90.21-02
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4	EXISTING VAULT TO REMAIN
5	CEMENT CONC. SIDEWALK
6	PATCH PANEL IN TRAFFIC SIGNAL CONTROL CABINET



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BID SET
 CITY PROJECT #:
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P3
 06 OF 39

CITY OF Federal Way
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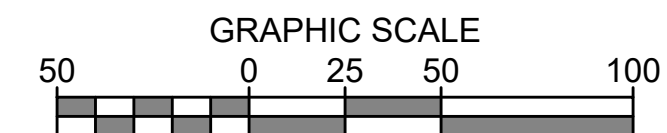
DRAFTED: J. COLE
 DESIGNED: J. COLE
 REVIEWED: C. MULLEN
 APPROVED: C. MULLEN



DRAWING VERSION / REVISION LOG		
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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SCHEDULE A
54+00 - 75+00

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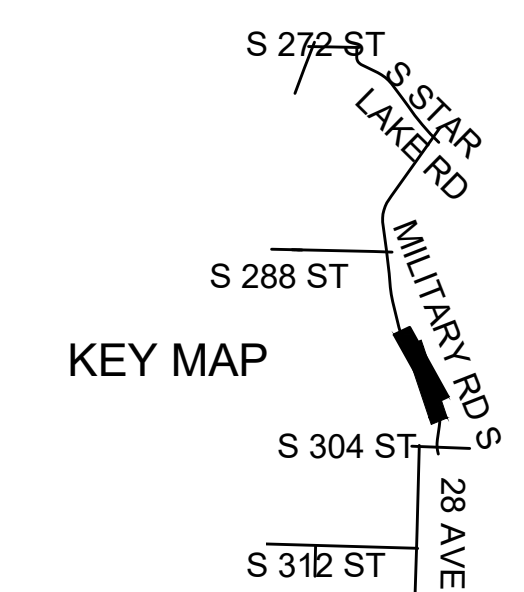
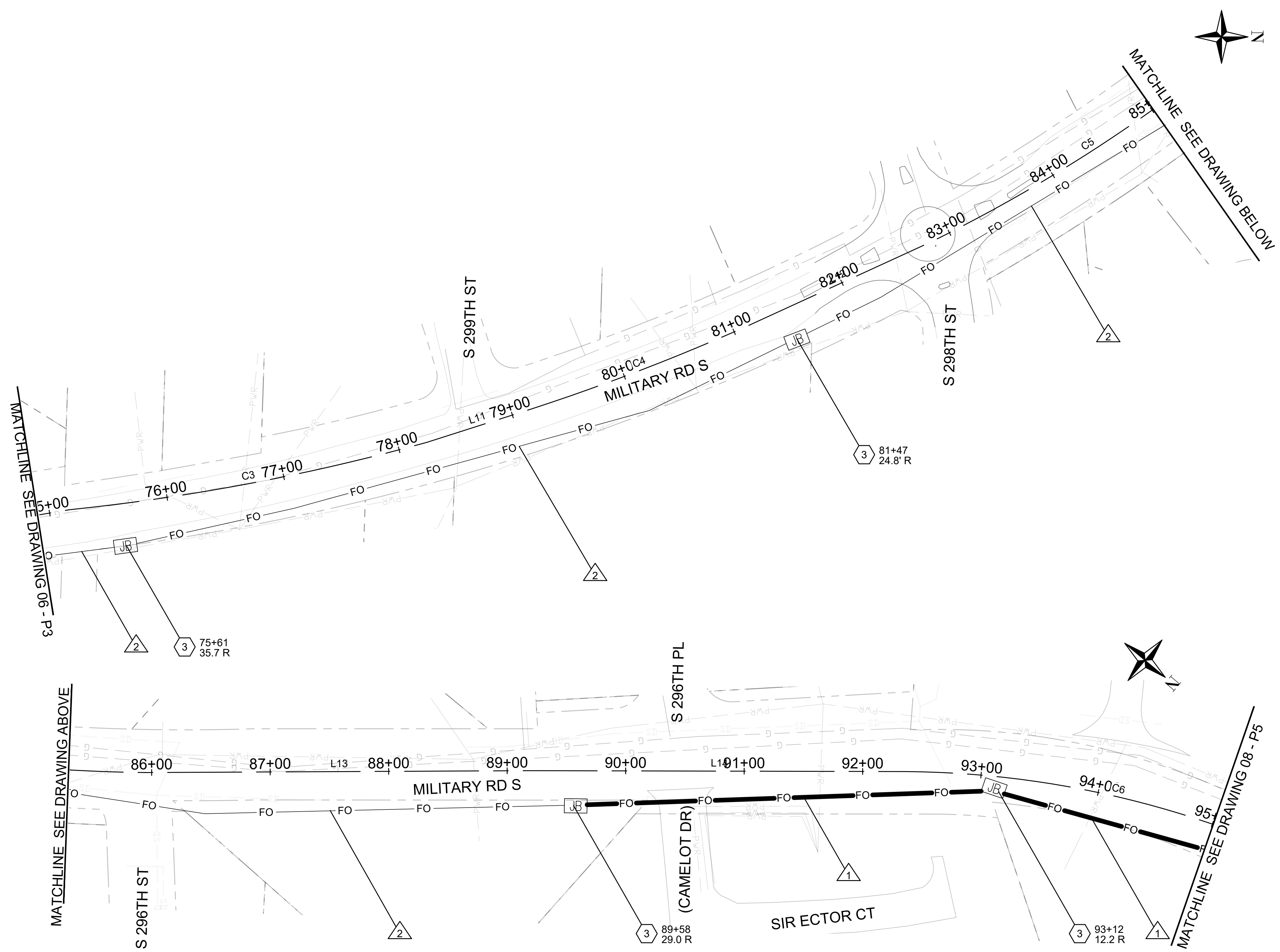
GENERAL NOTES:

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CONDUIT AND WIRING SCHEDULE				
NO.	CONDUIT	SYSTEM	FIBER	COMMENTS
1	(2) - 4"	INTERCONNECT	72 CT	CONDUIT PLACED BY DIRECTIONAL BORE OR OPEN CUT
2	(1) - 1.5"	INTERCONNECT	72 CT	REMOVE COPPER INTERCONNECT CABLE AND REPLACE WITH FIBER
3	(1) - 4"	INTERCONNECT	72 CT	CONDUIT INSTALLED BY SOUND TRANSIT
4	(1) - 4"	INTERCONNECT		EMPTY CONDUIT
5	(1) - 2"	INTERCONNECT	72 CT	REMOVE COPPER INTERCONNECT CABLE AND REPLACE WITH FIBER

NOTES: 1. MINIMUM 2' COVER
 2. HDPE CONDUIT WITH CONDUCTORS SHALL CONTAIN GROUND WIRE. SEE WSDOT STD. PLAN J-28.70-01. #8 MINIMUM GROUND WIRE IN ALL NEW CONDUIT.
 3. ALL CONDUIT SHALL CONTAIN DETECTABLE MULE TAPE.

CONSTRUCTION NOTES	
1	PULL BOX, SEE WSDOT STD. PLAN -90.10-03
2	SMALL CABLE VAULT, SEE WSDOT STD. PLAN J-90.21-02
3	EXISTING VAULT TO BE REPLACED WITH LOCKING LID STANDARD DUTY JUNCTION BOX TYPE 2, SEE WSDOT STD. PLAN J-40.10-04
4	EXISTING VAULT TO REMAIN
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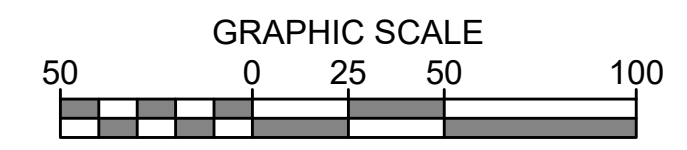
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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SCHEDULE A
75+00 - 95+00

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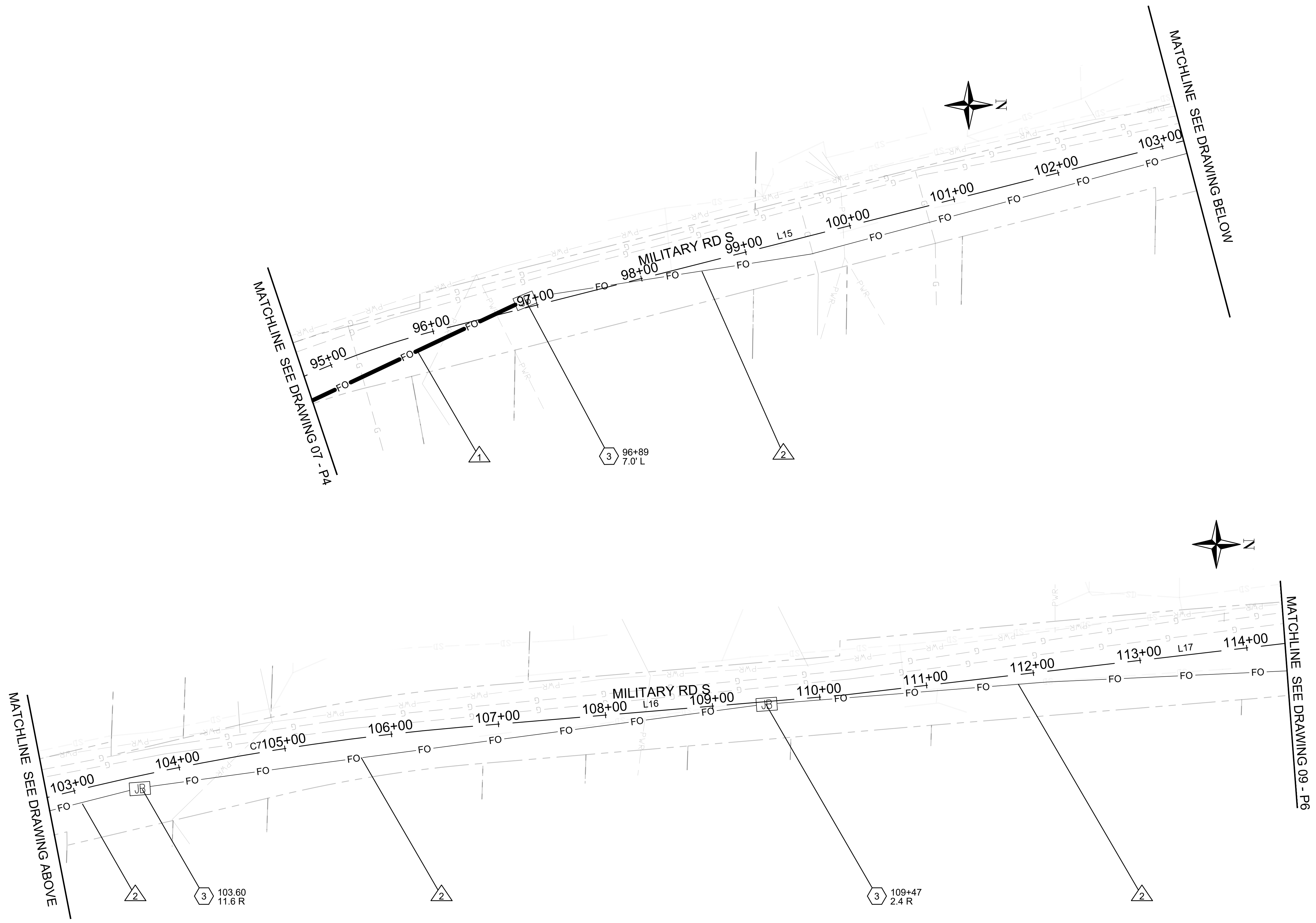


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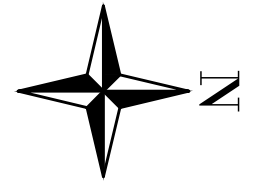
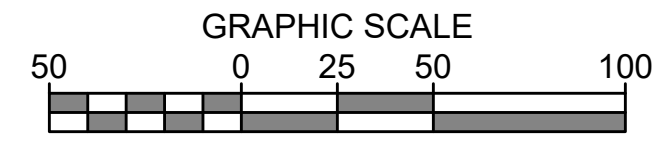
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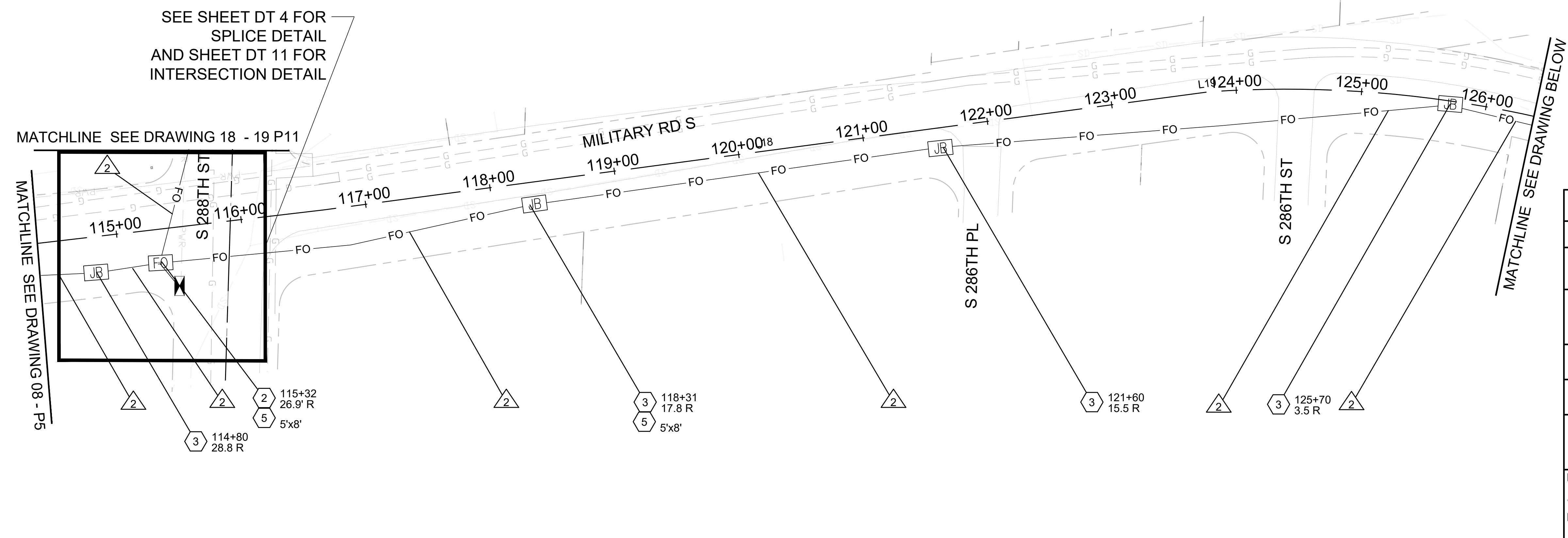
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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SCHEDULE A
 95+00 - 115+00

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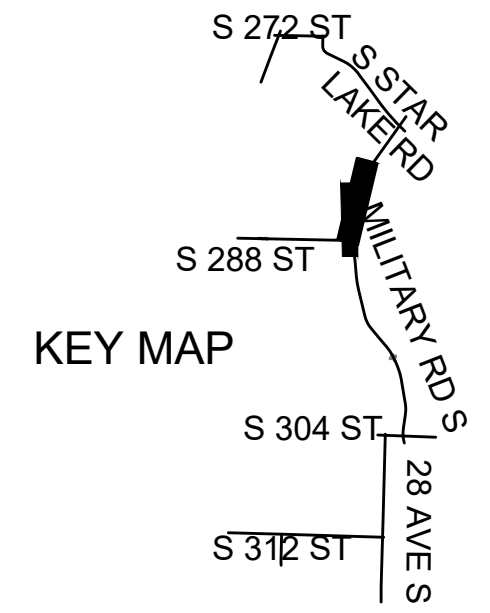
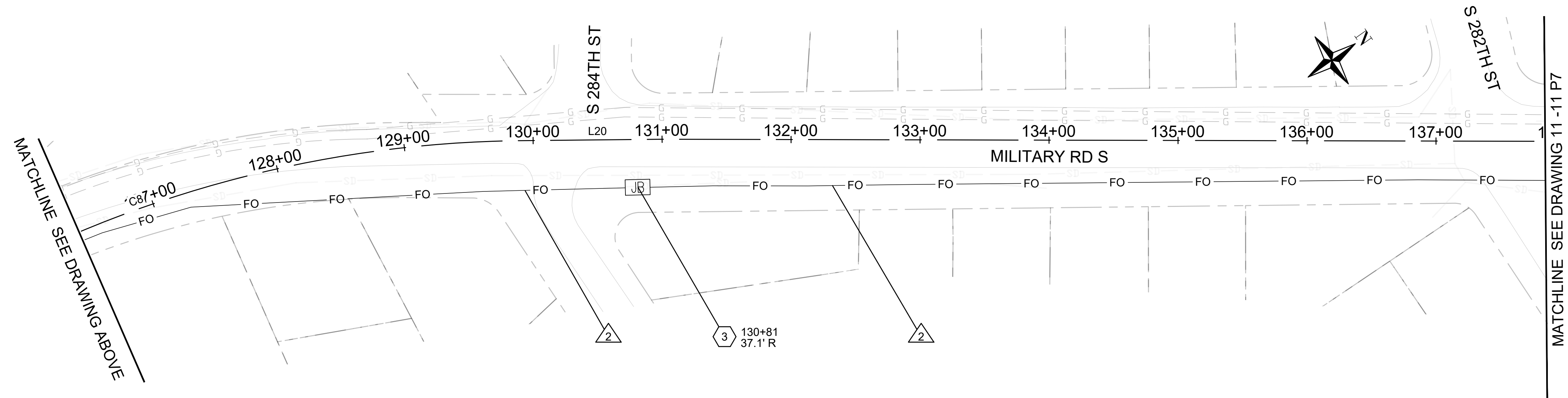
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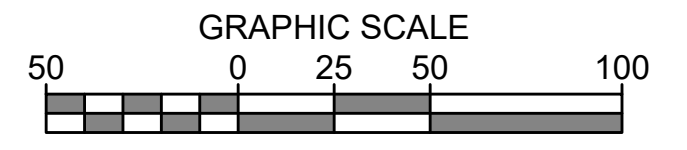
DRAFTED: J. COLE
DESIGNED: J. COLE
REVIEWED: C. MULLEN
APPROVED: C. MULLEN



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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SCHEDULE A
115+00 - 138+00

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SEE SHEET DT 4 AND DT 11 FOR DETAIL

GENERAL NOTES:

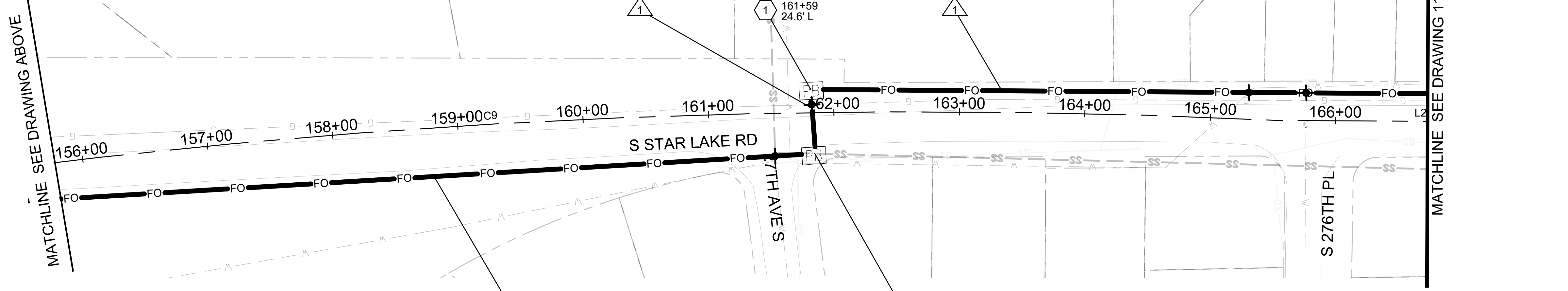
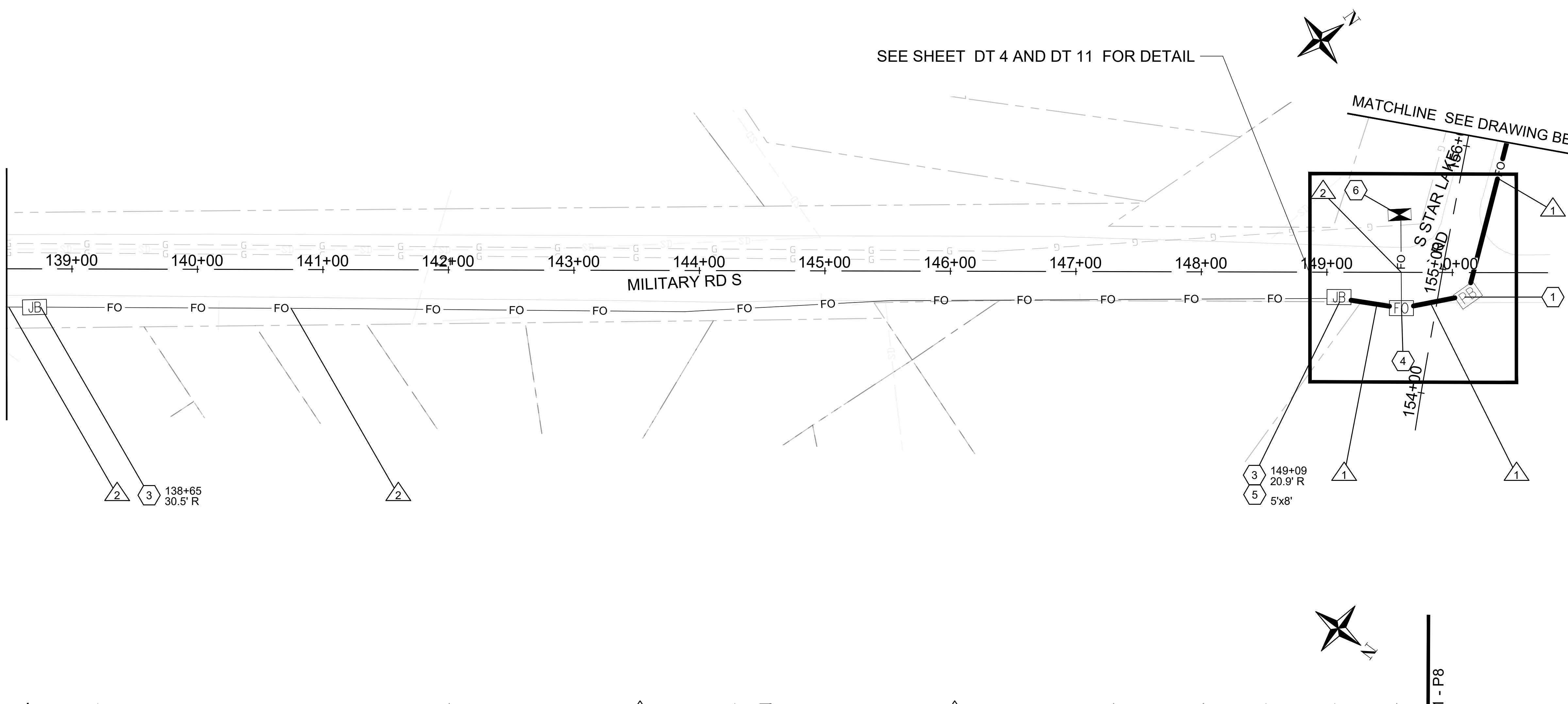
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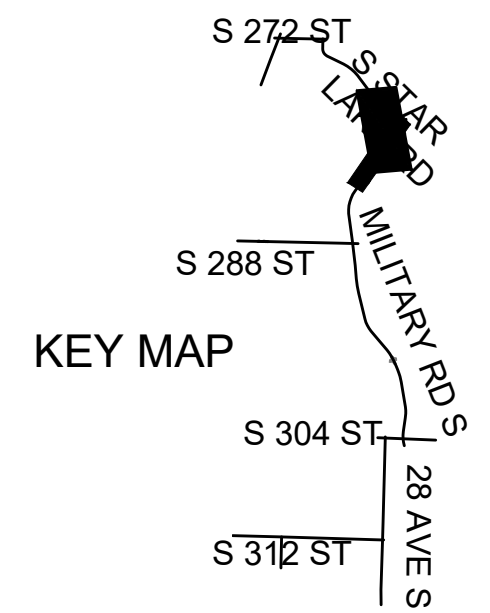
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MATCHLINE SEE DRAWING 09 - P6



MATCHLINE SEE DRAWING 11 - P8



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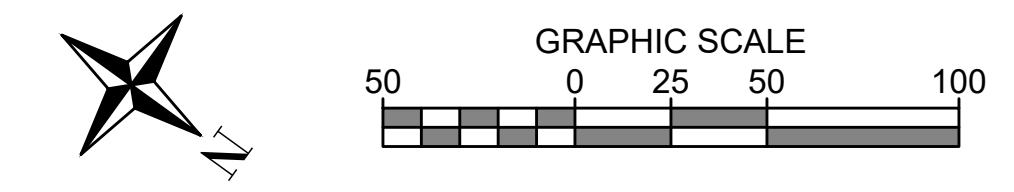
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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SCHEDULE A
 138+00 - 167+00

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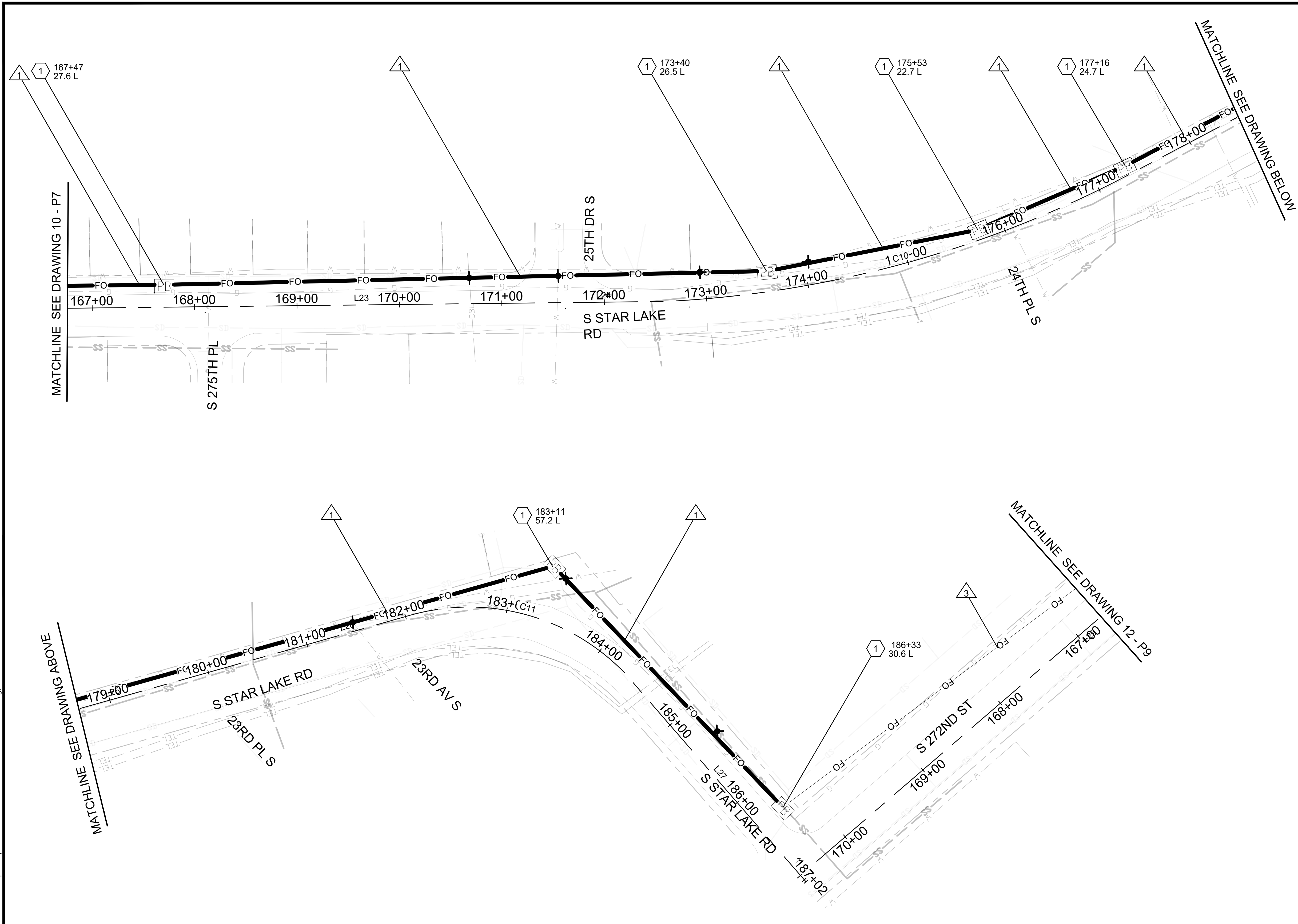
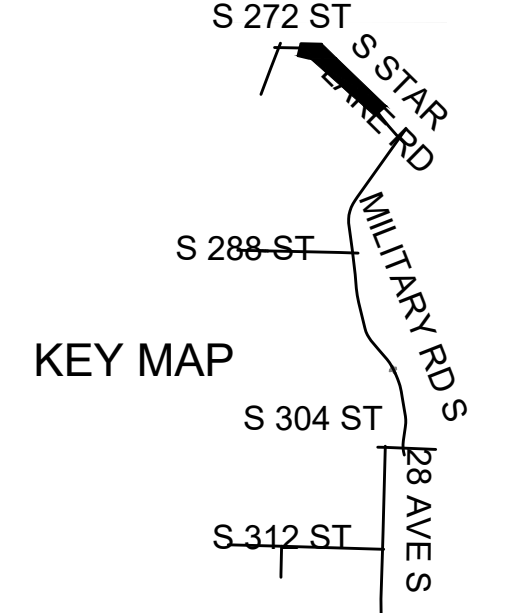


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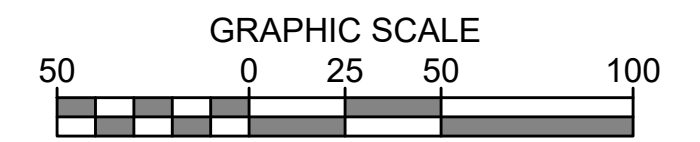
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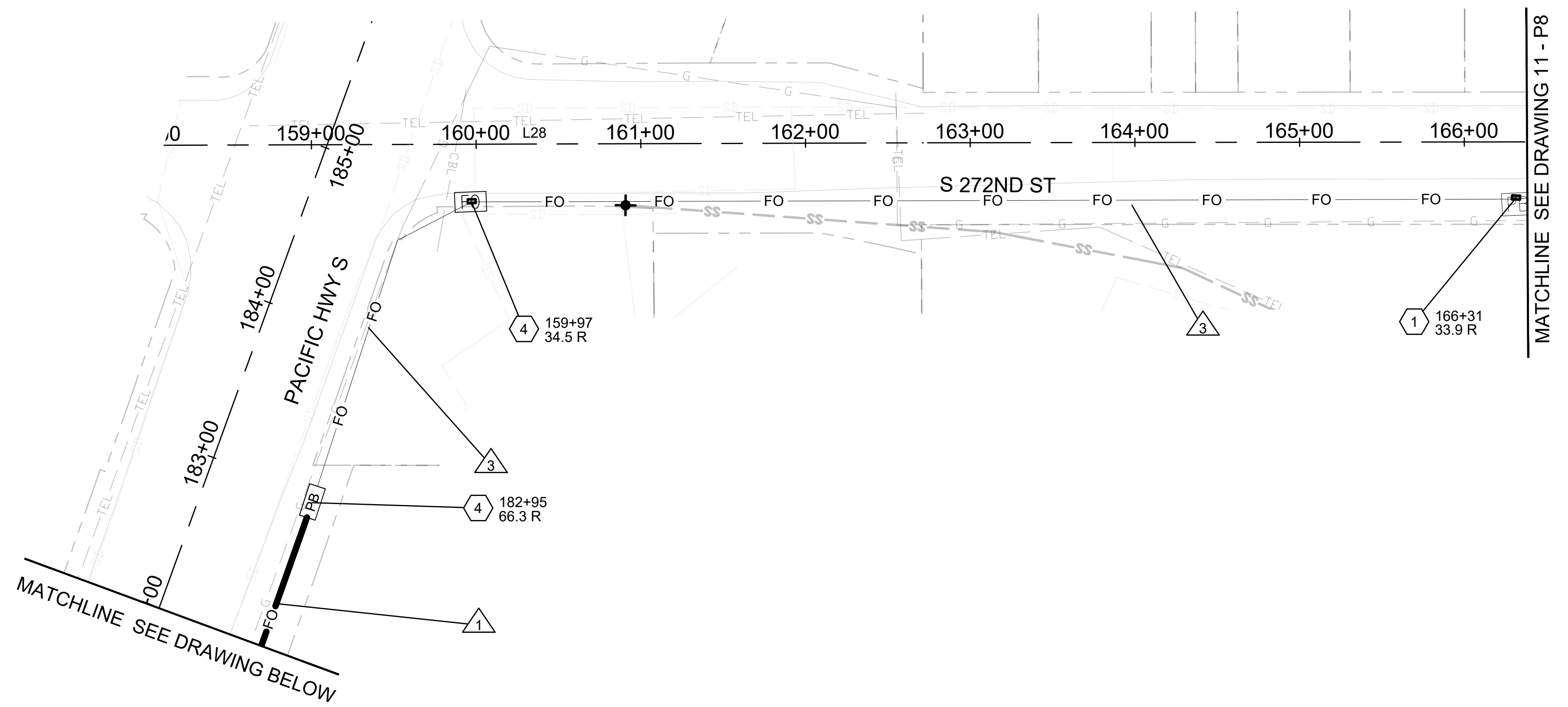
FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SCHEDULE A
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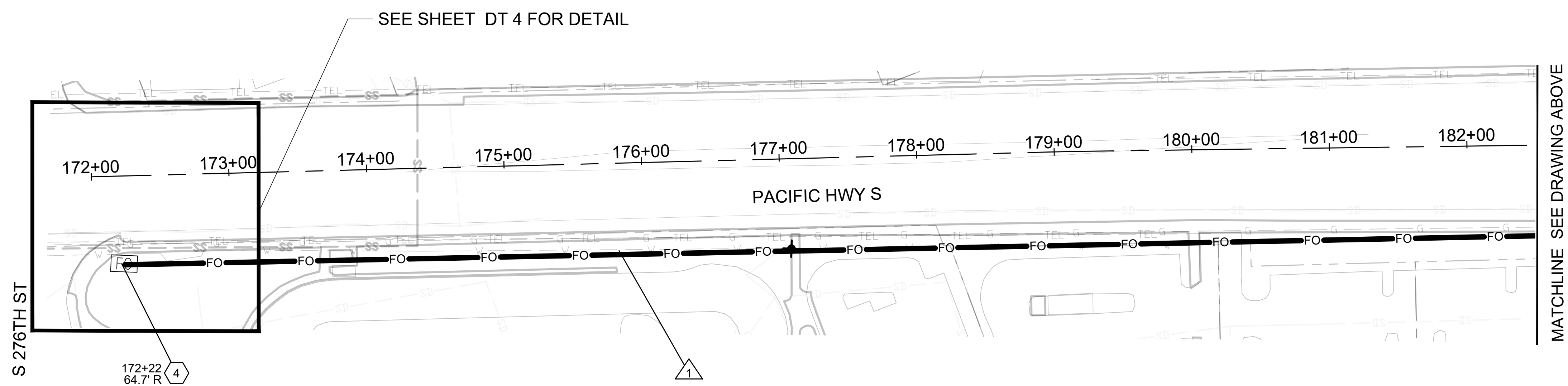
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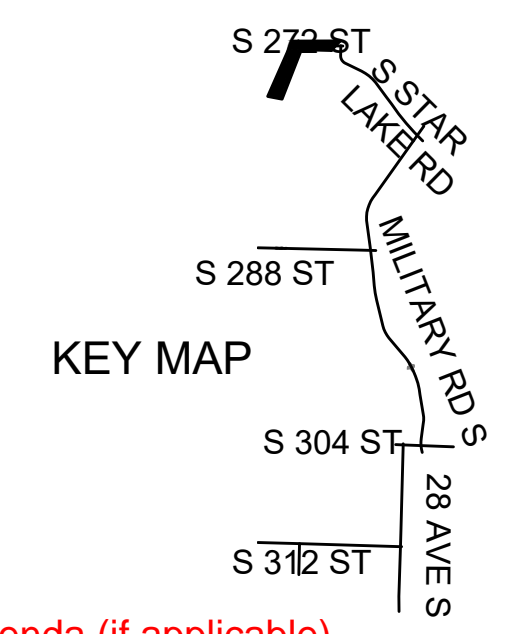


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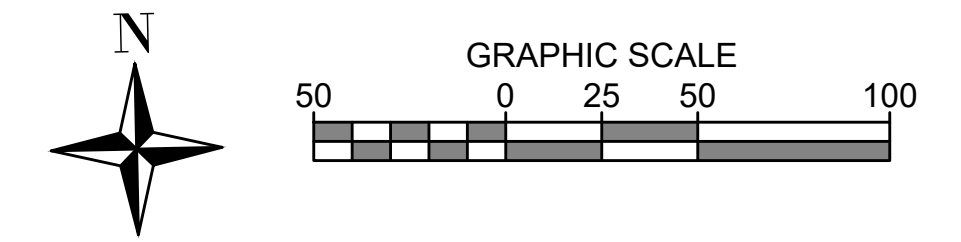
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DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

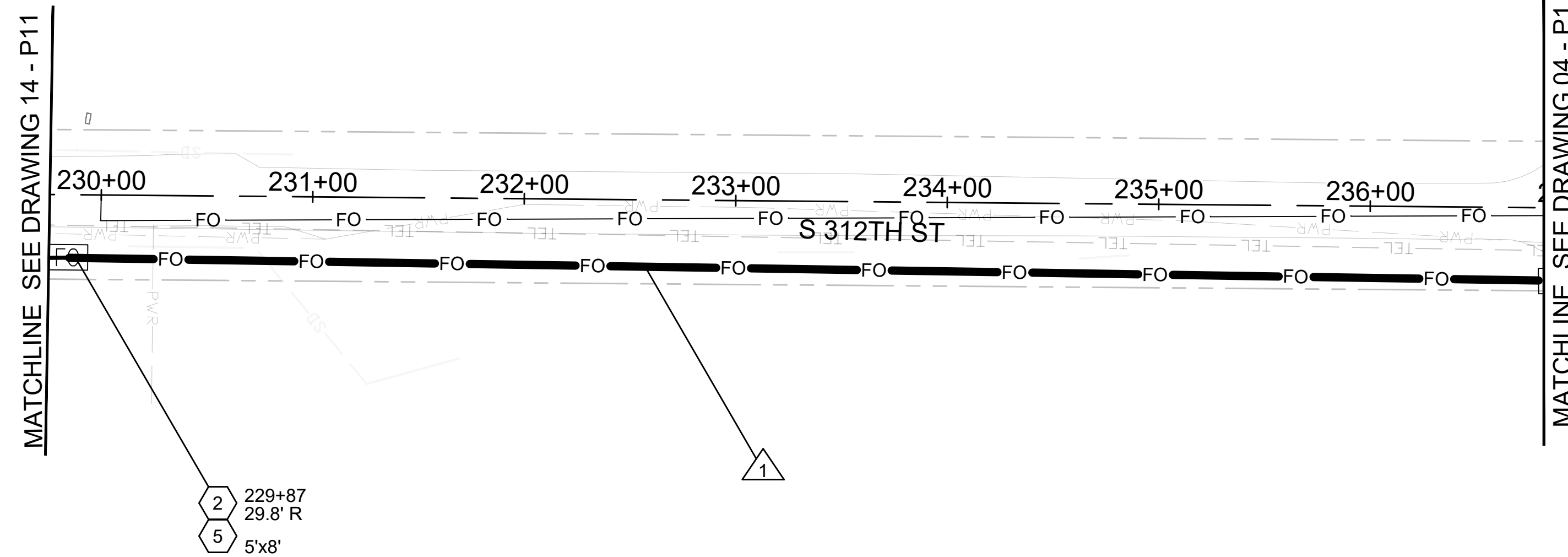
FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SCHEDULE A
159+00 -185+00

k:\engineering\division\PROJECTS\ACTIVE\18239 - fiber optic loop - 317th to 272nd\03 PE\ACAD\04 KEY PLAN.dwg, 2/1/2024



GENERAL NOTES:

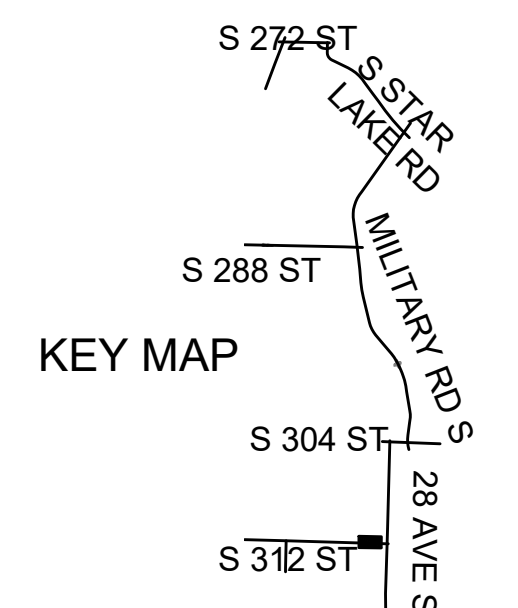
1. THE FIBER PATH AND VAULT LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION AND REROUTE THE PATH AND LOCATIONS AS NECESSARY TO AVOID CONFLICTS WITH EXISTING UTILITIES AND OTHER FACILITIES. ALL COSTS ASSOCIATED WITH THE RELOCATION OF PATHS AND LOCATIONS DUE TO CONFLICTS WITH EXISTING UTILITIES SHALL BE INCLUDED IN THE "FIBER SYSTEM, COMPLETE" BID ITEM.
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CONDUIT AND WIRING SCHEDULE				
NO.	CONDUIT	SYSTEM	FIBER	COMMENTS
1	(2) - 4"	INTERCONNECT	72 CT	CONDUIT PLACED BY DIRECTIONAL BORE OR OPEN CUT
2	(1) - 1.5"	INTERCONNECT	72 CT	REMOVE COPPER INTERCONNECT CABLE AND REPLACE WITH FIBER
3	(1) - 4"	INTERCONNECT	72 CT	CONDUIT INSTALLED BY SOUND TRANSIT
4	(1) - 4"	INTERCONNECT		EMPTY CONDUIT
5	(1) - 2"	INTERCONNECT	72 CT	REMOVE COPPER INTERCONNECT CABLE AND REPLACE WITH FIBER

NOTES: 1. MINIMUM 2' COVER
2. HDPE CONDUIT WITH CONDUCTORS SHALL CONTAIN GROUND WIRE, SEE WSDOT STD. PLAN J-28.70-01. #8 MINIMUM GROUND WIRE IN ALL NEW CONDUIT.
3. ALL CONDUIT SHALL CONTAIN DETECTABLE MULE TAPE.

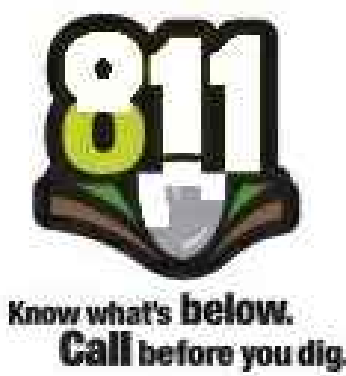
CONSTRUCTION NOTES	
1	PULL BOX, SEE WSDOT STD. PLAN -90.10-03
2	SMALL CABLE VAULT, SEE WSDOT STD. PLAN J-90.21-02
3	EXISTING VAULT TO BE REPLACED WITH LOCKING LID STANDARD DUTY JUNCTION BOX TYPE 2, SEE WSDOT STD. PLAN J-40.10-04
4	EXISTING VAULT TO REMAIN
5	CEMENT CONC. SIDEWALK
6	PATCH PANEL IN TRAFFIC SIGNAL CONTROL CABINET



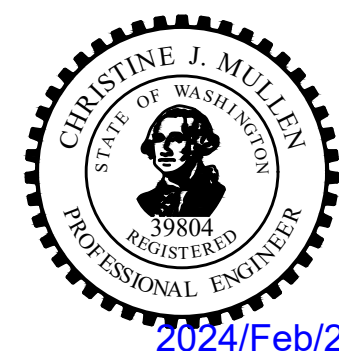
*****UNOFFICIAL BID COPY***** Official bid documents, plan holder's list, and addenda (if applicable) are available on BXWA.com

BID SET

CITY OF Federal Way
Centered on Opportunity
33325 8TH AVE S FEDERAL WAY, WA 98003
PHONE: (253) 835-2700
WWW.CITYOFFEDERALWAY.COM



DRAFTED: J. COLE
DESIGNED: J. COLE
REVIEWED: C. MULLEN
APPROVED: C. MULLEN



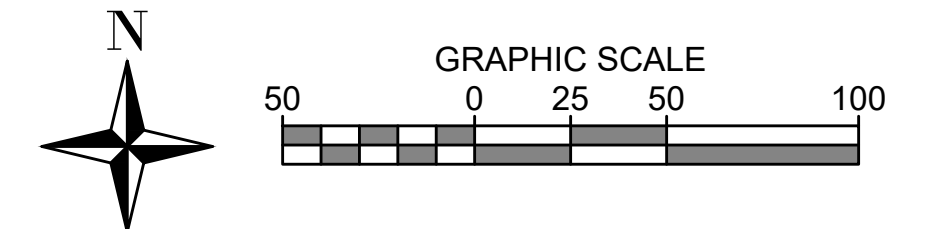
DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

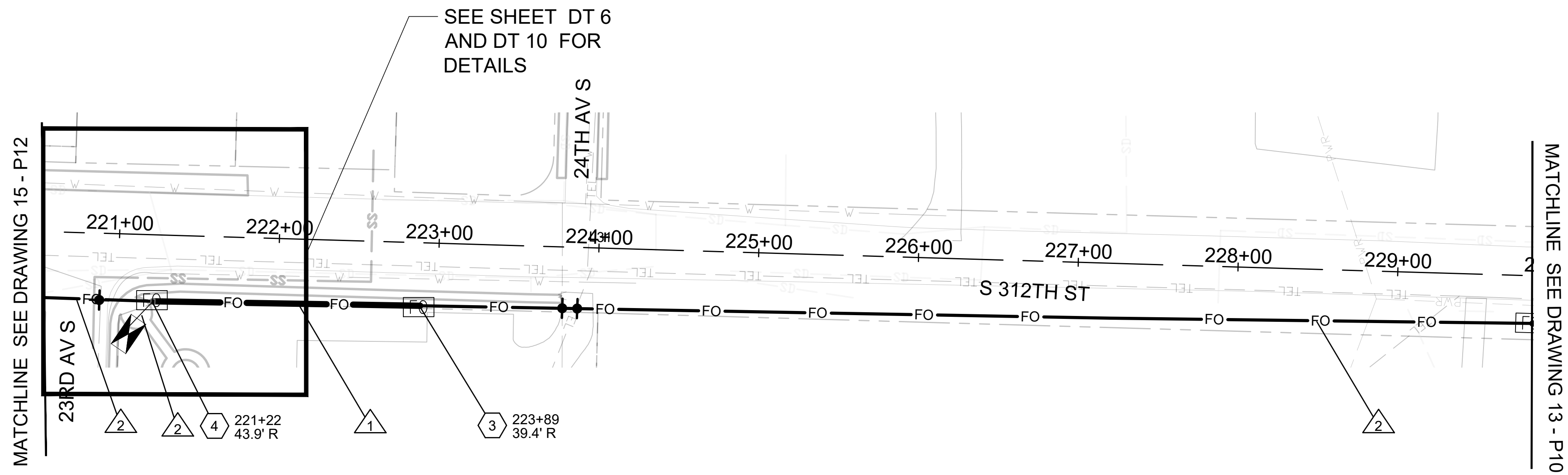
SCHEDULE B
STA: 230+00-236+50

CITY PROJECT #:
36239
SHEET
P10
13 OF 39



GENERAL NOTES:

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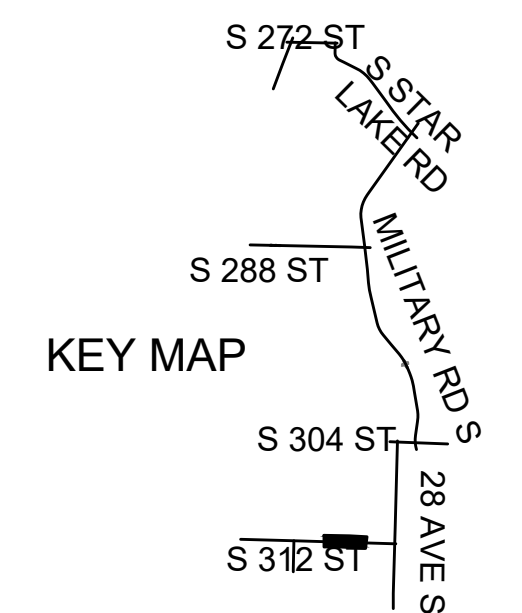
CONDUIT AND WIRING SCHEDULE

NO.	CONDUIT	SYSTEM	FIBER	COMMENTS
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2	(1) - 1.5"	INTERCONNECT	72 CT	REMOVE COPPER INTERCONNECT CABLE AND REPLACE WITH FIBER
3	(1) - 4"	INTERCONNECT	72 CT	CONDUIT INSTALLED BY SOUND TRANSIT
4	(1) - 4"	INTERCONNECT		EMPTY CONDUIT
5	(1) - 2"	INTERCONNECT	72 CT	REMOVE COPPER INTERCONNECT CABLE AND REPLACE WITH FIBER

- NOTES:
1. MINIMUM 2' COVER
 2. HDPE CONDUIT WITH CONDUCTORS SHALL CONTAIN GROUND WIRE, SEE WSDOT STD. PLAN J-28.70-01. #8 MINIMUM GROUND WIRE IN ALL NEW CONDUIT.
 3. ALL CONDUIT SHALL CONTAIN DETECTABLE MULE TAPE.

CONSTRUCTION NOTES

1	PULL BOX, SEE WSDOT STD. PLAN -90.10-03
2	SMALL CABLE VAULT, SEE WSDOT STD. PLAN J-90.21-02
3	EXISTING VAULT TO BE REPLACED WITH LOCKING LID STANDARD DUTY JUNCTION BOX TYPE 2, SEE WSDOT STD. PLAN J-40.10-04
4	EXISTING VAULT TO REMAIN
5	CEMENT CONC. SIDEWALK
6	PATCH PANEL IN TRAFFIC SIGNAL CONTROL CABINET



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DRAFTED: J. COLE
DESIGNED: J. COLE
REVIEWED: C. MULLEN
APPROVED: C. MULLEN



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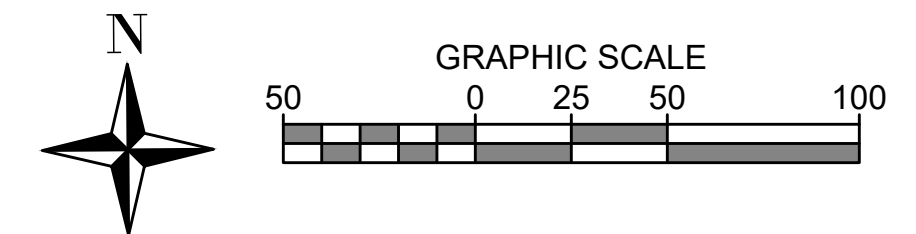
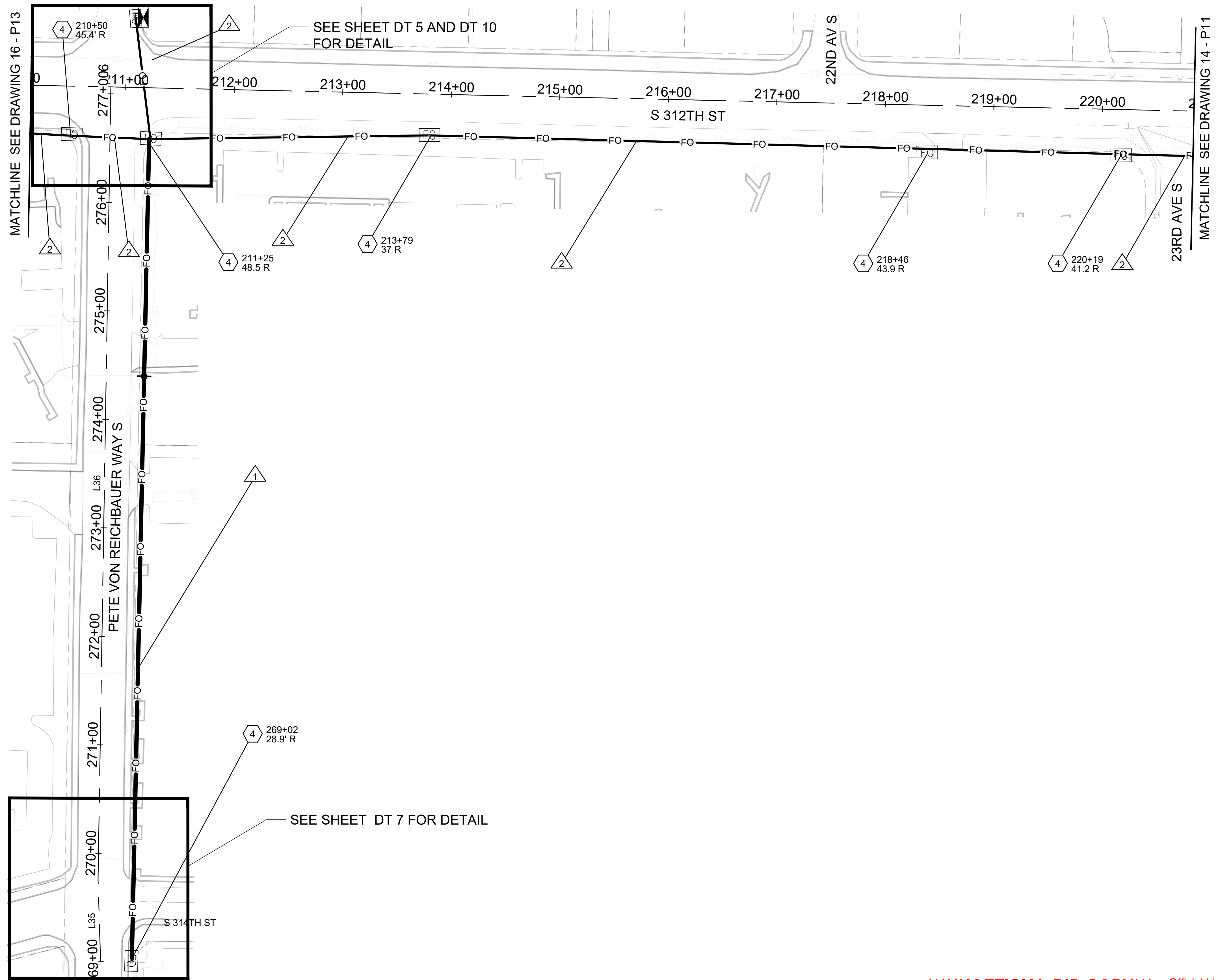
NO.	DATE	REVISION

FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

SCHEDULE B
STA: 221+00-230+00

CITY PROJECT #: 36239
SHEET P11
14 OF 39

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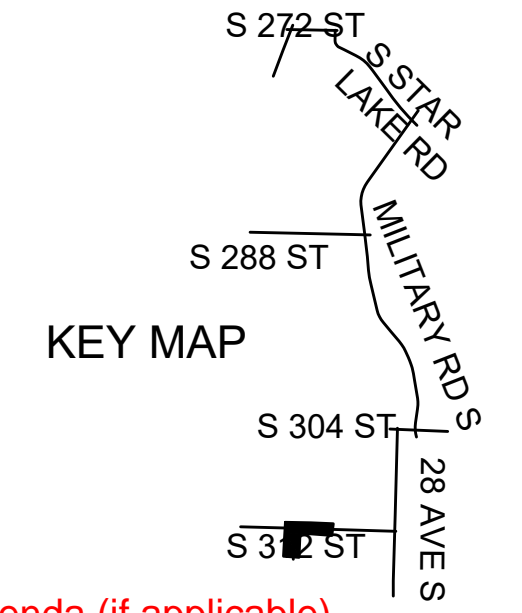


- GENERAL NOTES:**
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- NOTES:**
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CONSTRUCTION NOTES	
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2	SMALL CABLE VAULT, SEE WSDOT STD. PLAN J-90.21-02
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BID SET
CITY PROJECT #:
36239
SHEET
P12
15 OF 39



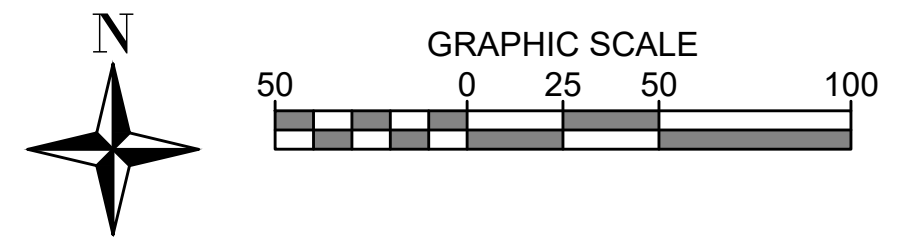
DRAFTED: J. COLE
DESIGNED: J. COLE
REVIEWED: C. MULLEN
APPROVED: C. MULLEN



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SCHEDULE C
312TH STA: 210+50-221+00 PVR WAY STA: 269+00-227+07

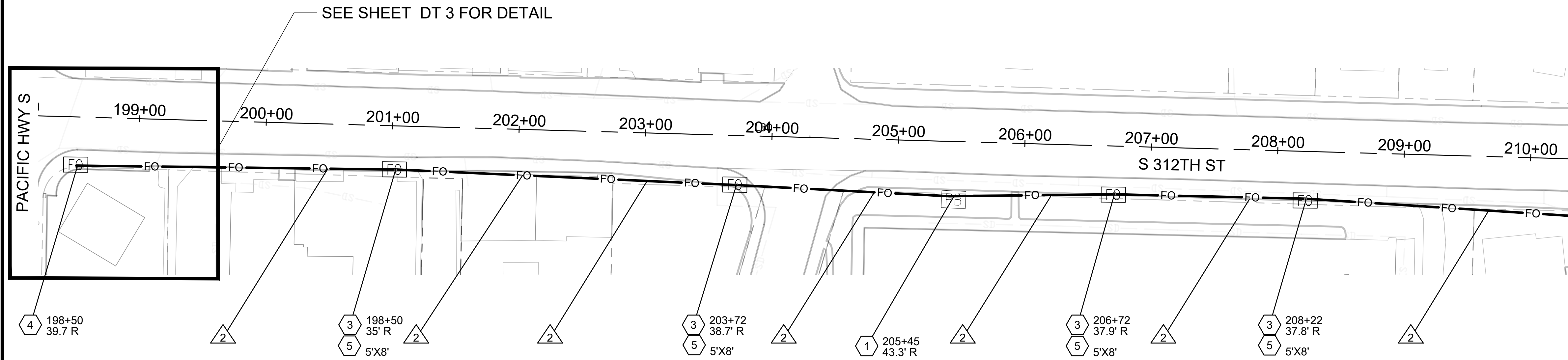
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MATCHLINE SEE DRAWING 15 - P12

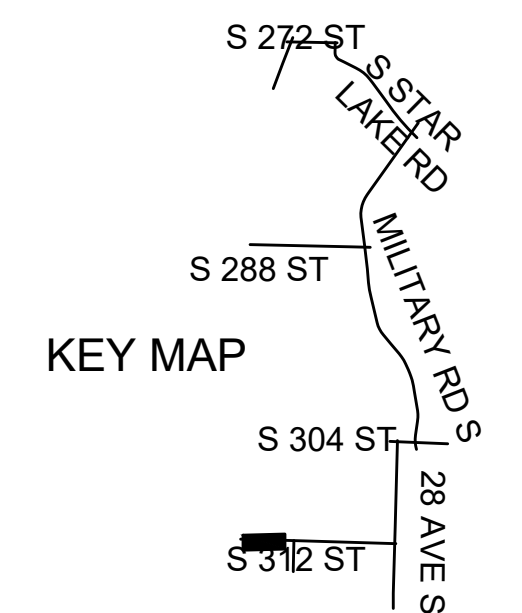


SEE SHEET DT 3 FOR DETAIL

CONDUIT AND WIRING SCHEDULE				
NO.	CONDUIT	SYSTEM	FIBER	COMMENTS
1	(2) - 4"	INTERCONNECT	72 CT	CONDUIT PLACED BY DIRECTIONAL BORE OR OPEN CUT
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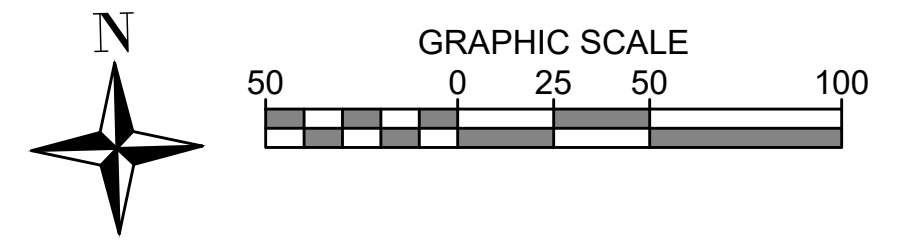
BID SET
CITY PROJECT #:
36239
SHEET
P13
16 OF 39

DRAFTED: J. COLE
DESIGNED: J. COLE
REVIEWED: C. MULLEN
APPROVED: C. MULLEN

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NO.	DATE	REVISION

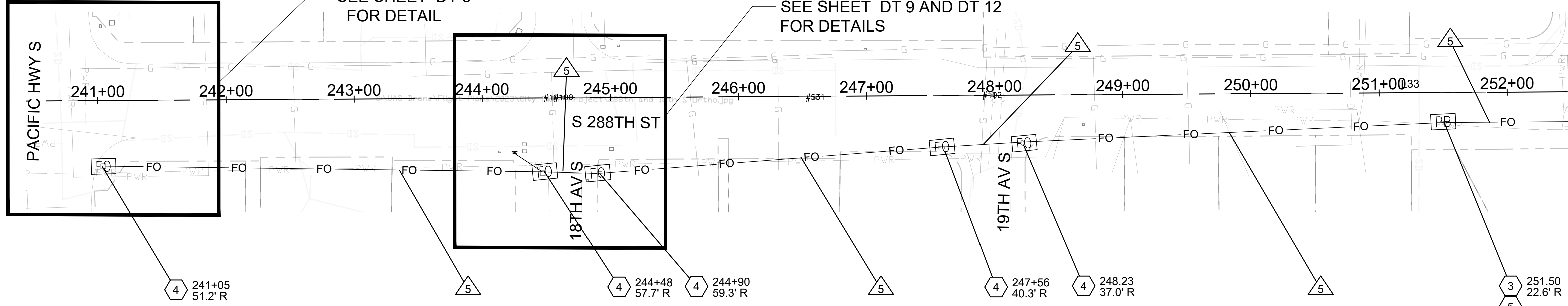
FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SCHEDULE D
STA: 198+00-211+00

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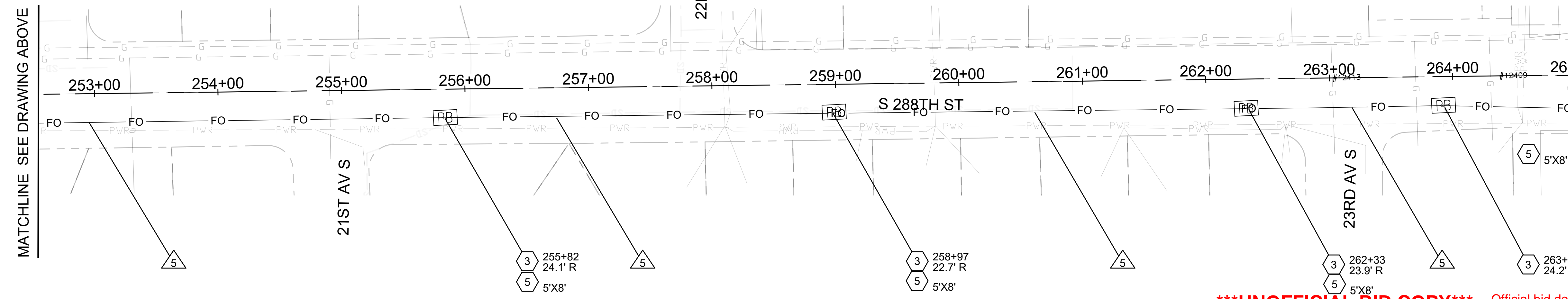


MATCHLINE SEE DRAWING BELOW

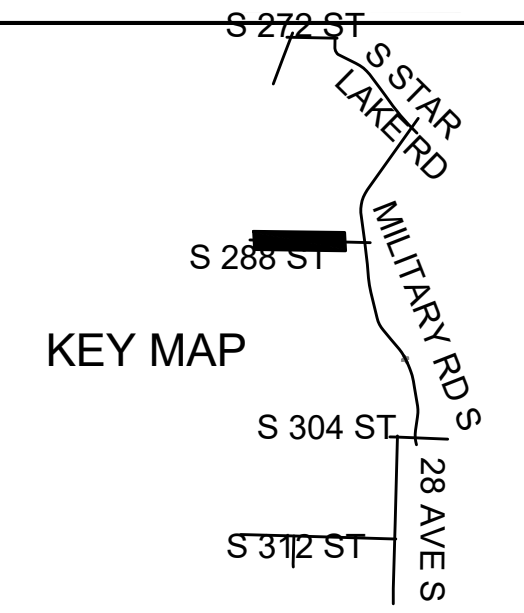
CONDUIT AND WIRING SCHEDULE				
NO.	CONDUIT	SYSTEM	FIBER	COMMENTS
1	(2) - 4"	INTERCONNECT	72 CT	CONDUIT PLACED BY DIRECTIONAL BORE OR OPEN CUT
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MATCHLINE SEE DRAWING 18 - P15



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BID SET
 CITY PROJECT #:
36239
 SHEET
P14
 17 OF 39

CITY OF Federal Way
 Centered on Opportunity
 33325 8TH AVE S FEDERAL WAY, WA 98003
 PHONE: (253) 835-2700
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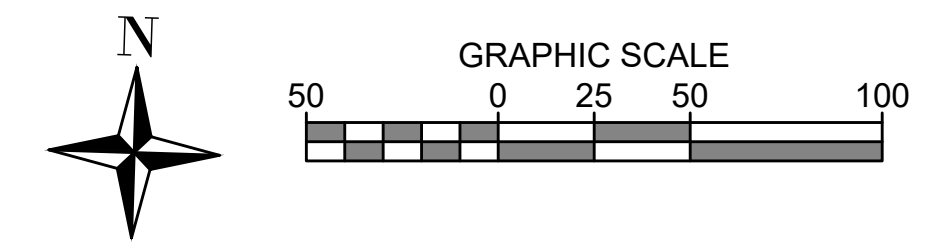
DRAFTED: J. COLE
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 APPROVED: C. MULLEN



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

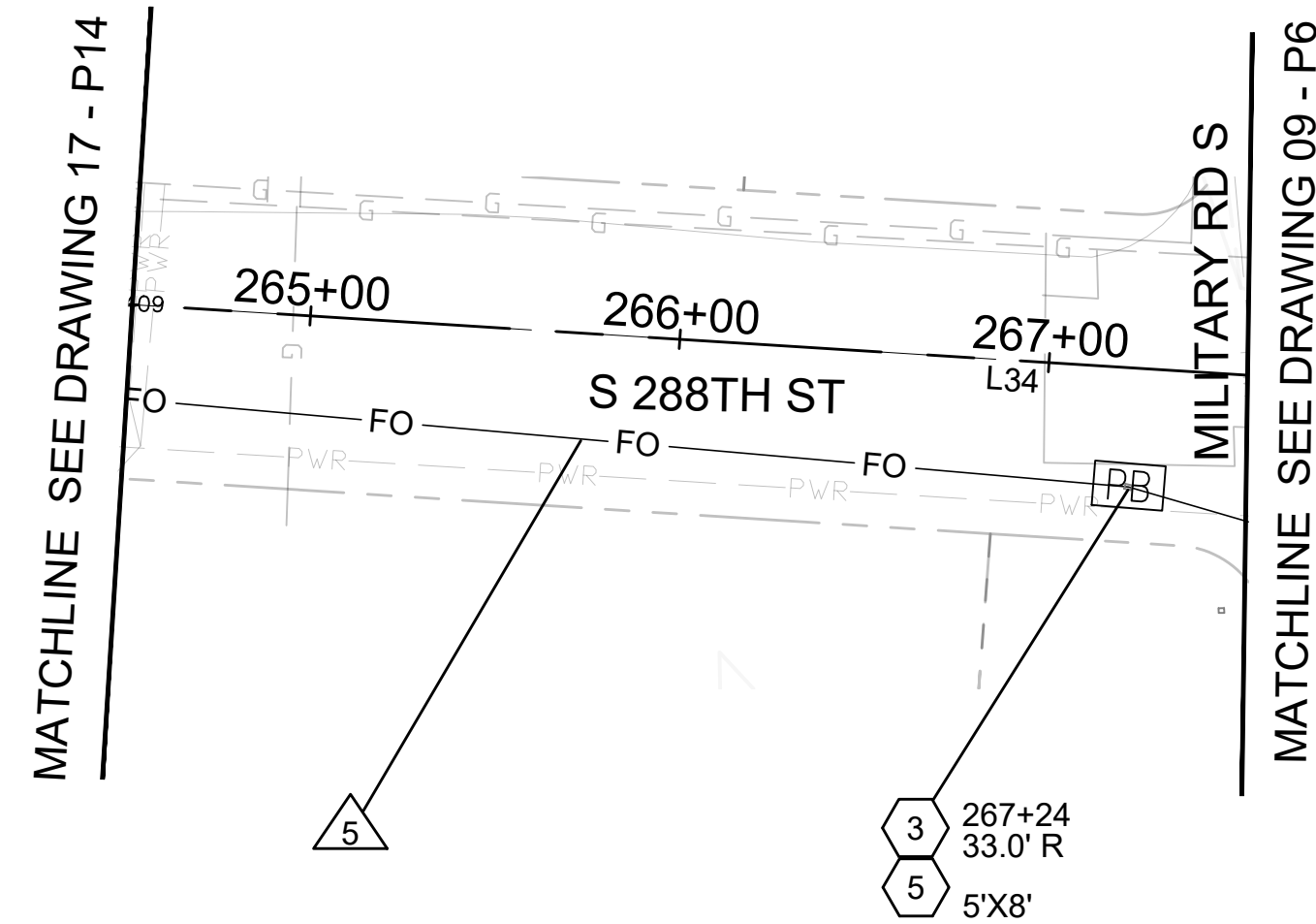
FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SCHEDULE E
241+00-265+00

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GENERAL NOTES:

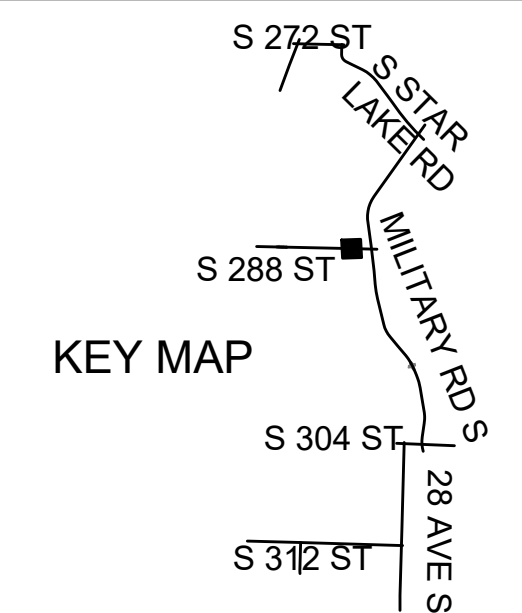
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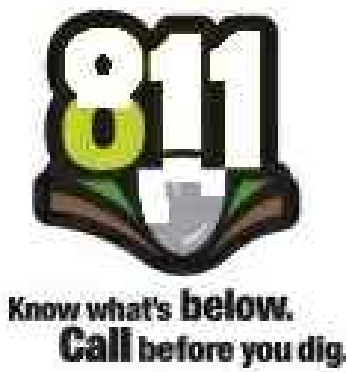
NOTES: 1. MINIMUM 2' COVER
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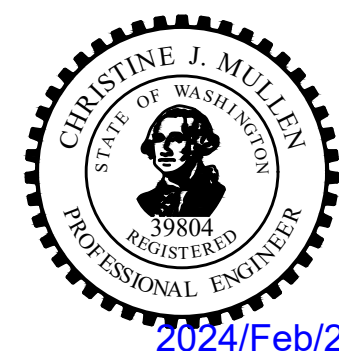


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BID SET



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 DESIGNED: J. COLE
 REVIEWED: C. MULLEN
 APPROVED: C. MULLEN



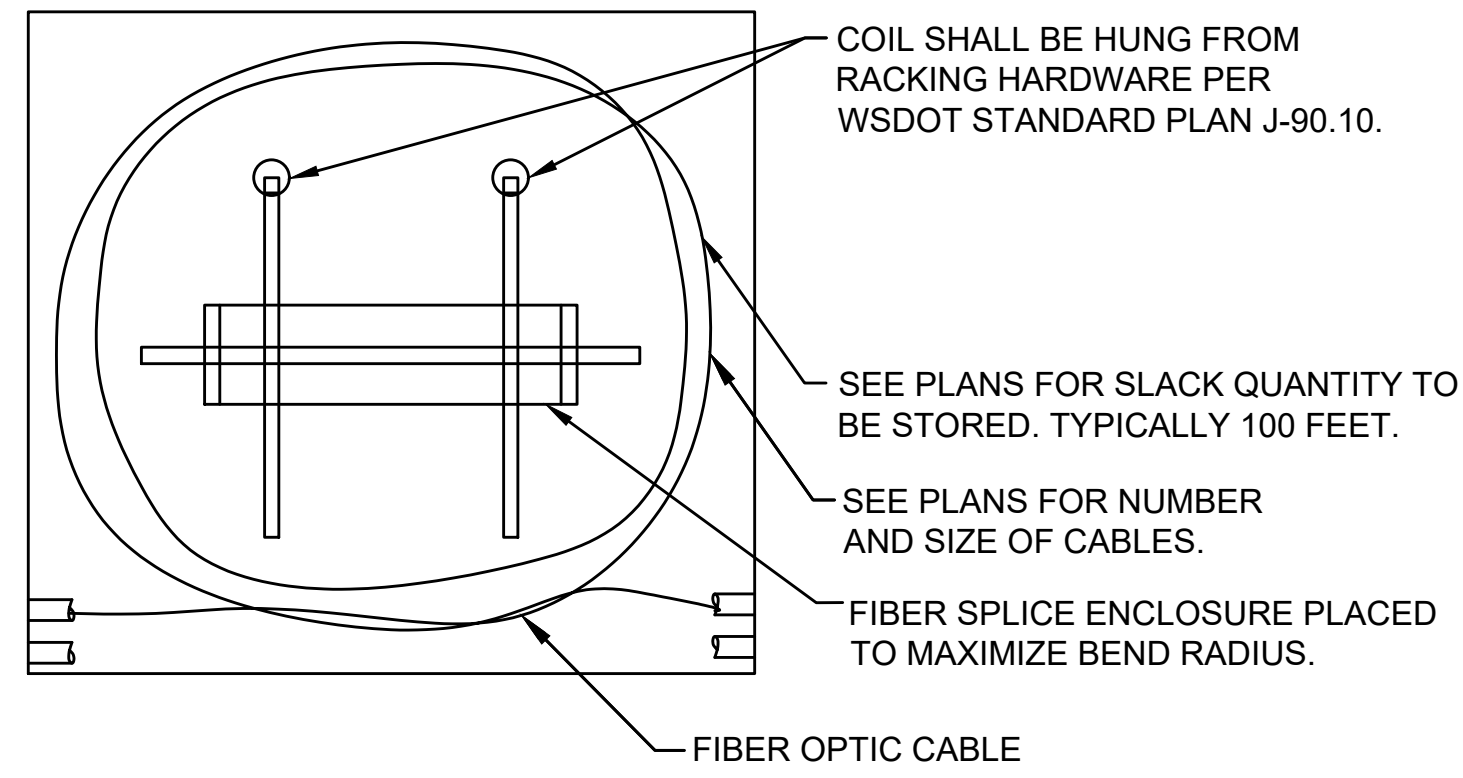
DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

**SCHEDULE E
 264+00-268+00**

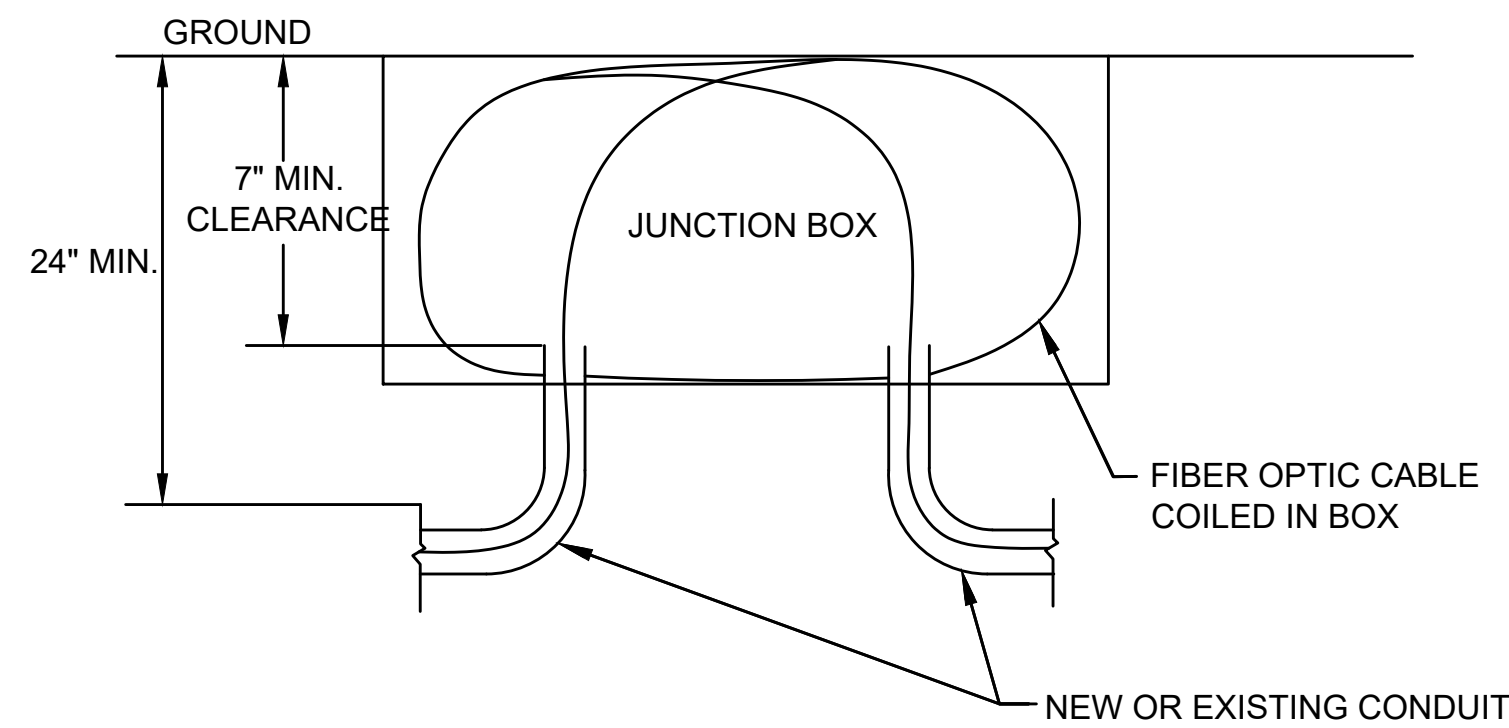
CITY PROJECT #:
36239
 SHEET
P15
 18 OF 39

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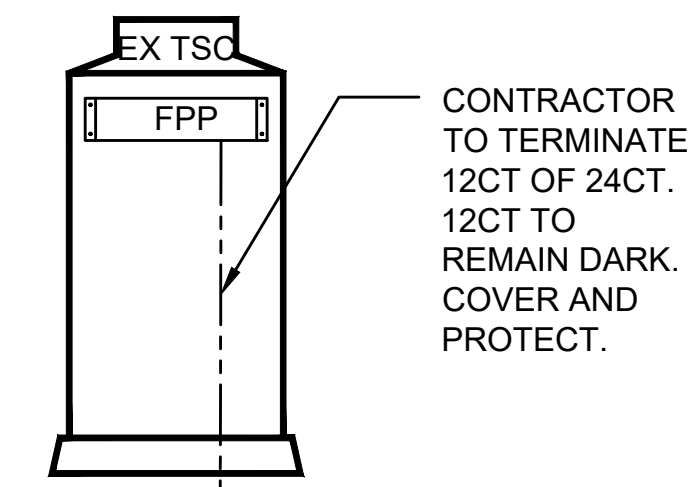
FIBER SPLICE ENCLOSURE AND CABLE STORAGE DETAIL

NTS

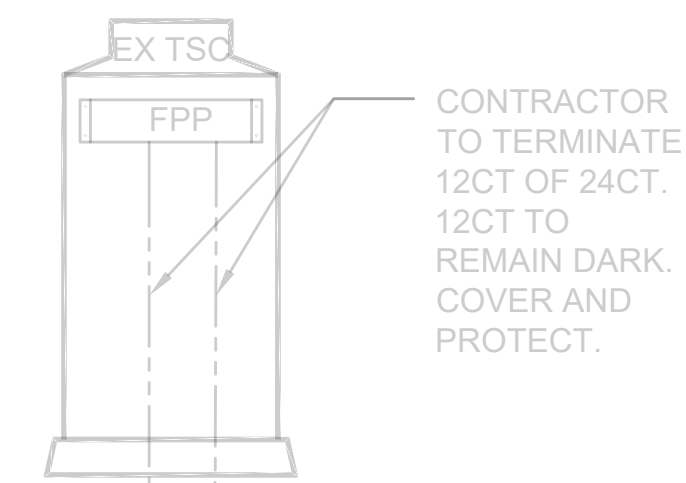


FIBER OPTIC INSTALLATION DETAIL

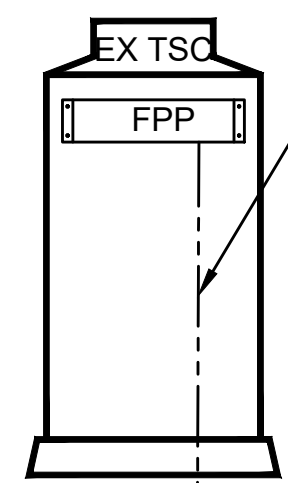
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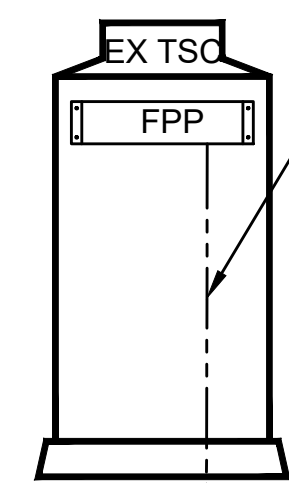
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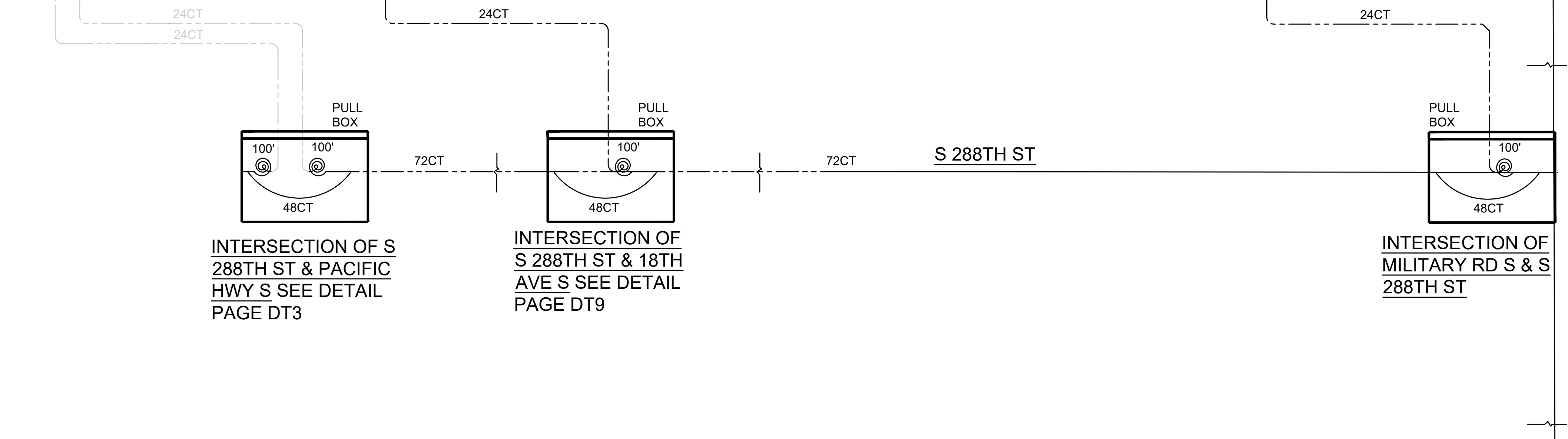
CONTRACTOR TO TERMINATE 12CT OF 24CT. 12CT TO REMAIN DARK. COVER AND PROTECT.



CONTRACTOR TO TERMINATE 12CT OF 24CT. 12CT TO REMAIN DARK. COVER AND PROTECT.



CONTRACTOR TO TERMINATE 12CT OF 24CT. 12CT TO REMAIN DARK. COVER AND PROTECT.



LEGEND

- TSC TRAFFIC SIGNAL CONTROLLER CABINET
- FPP FIBER PATCH PANEL
- EX EXISTING
- SE SPLICE ENCLOSURE
- JB JUNCTION BOX

MATCHLINE SEE DRAWING DT2

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STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
2024/Feb/29

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NO.	DATE	REVISION

FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

**FIBER CABINET DETAIL 1
317TH TO 272ND**

BID SET

CITY PROJECT #:

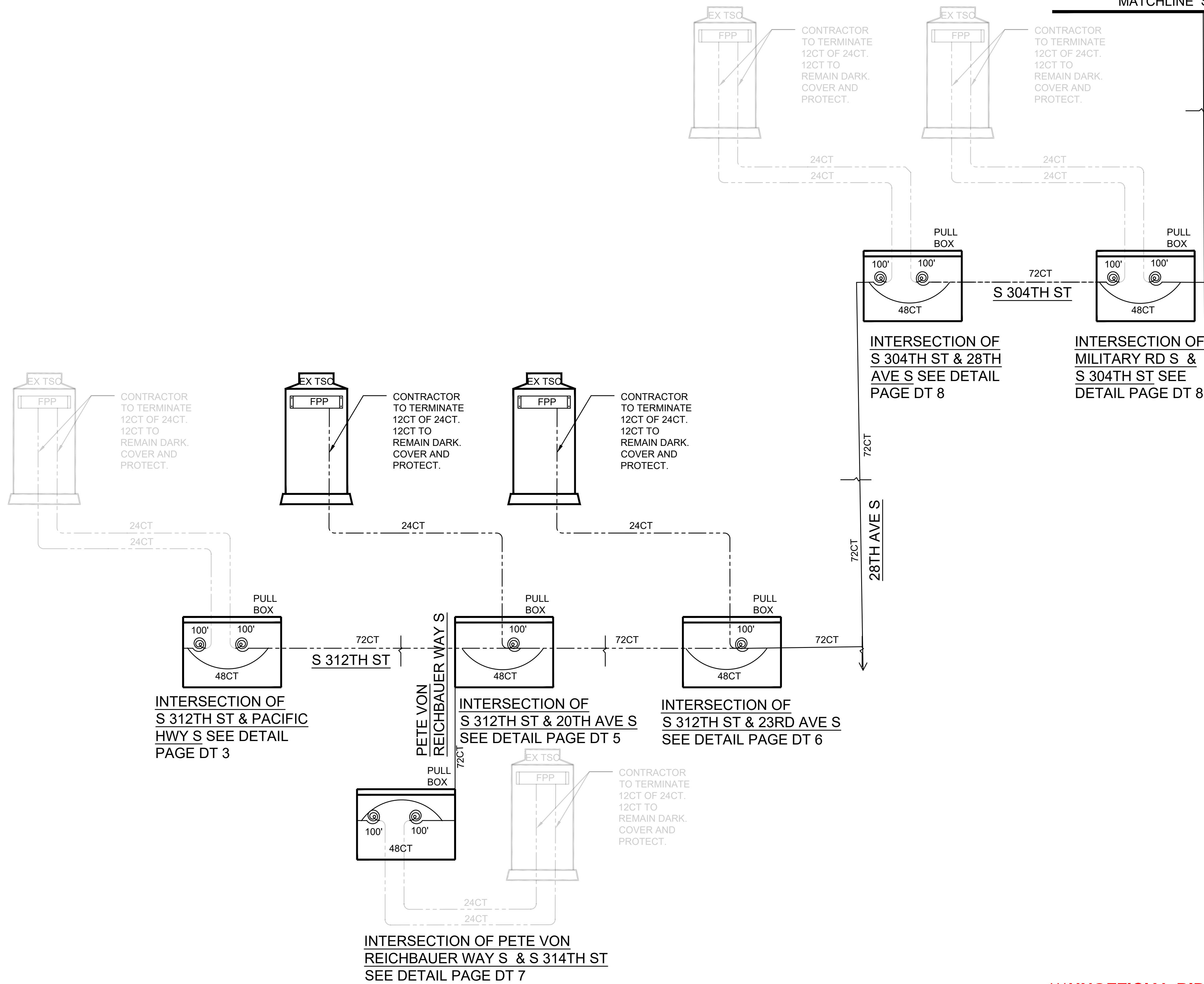
36239

SHEET

DT 1

19 OF 35

MATCHLINE SEE DRAWING DT1



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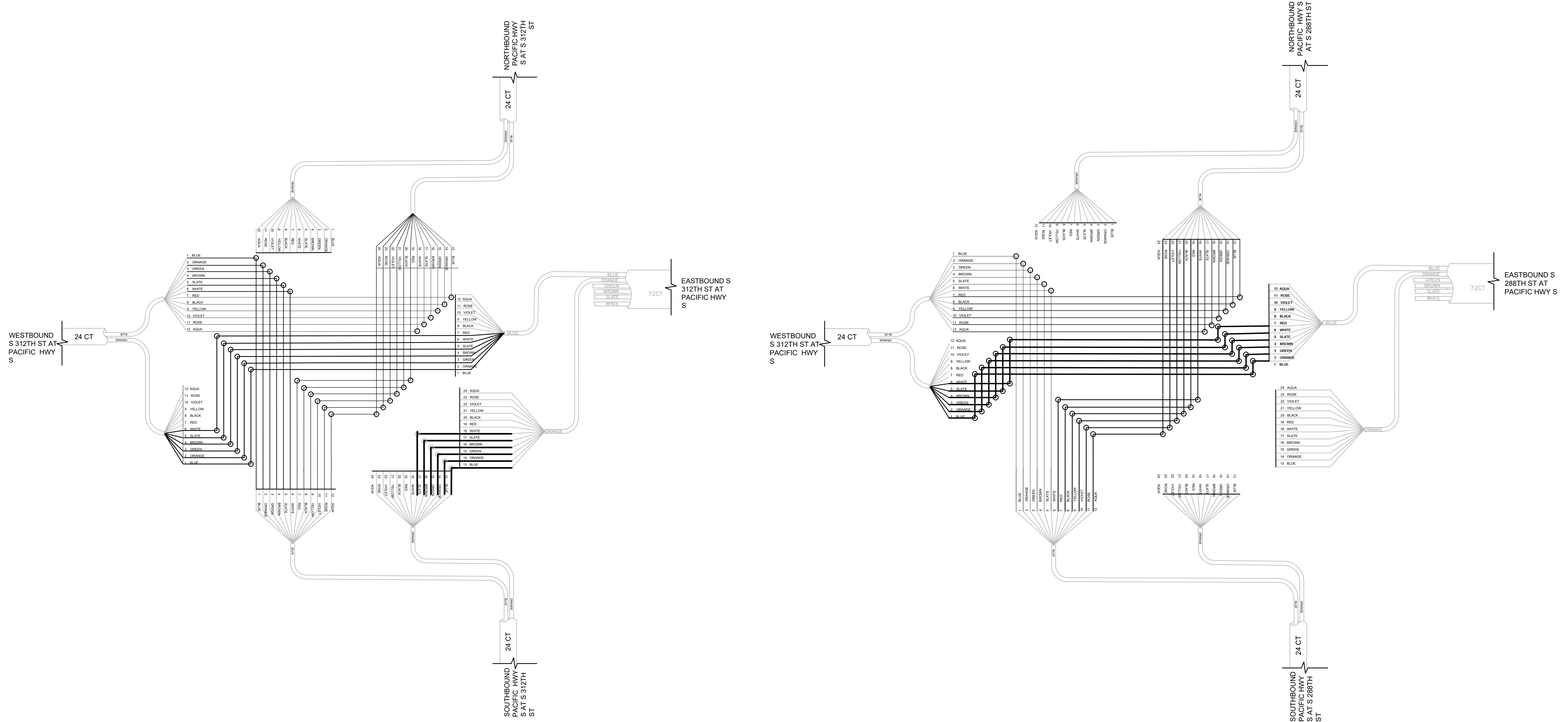
BID SET
 CITY PROJECT #:
 36239
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 DT 2
 20 OF 39

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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
FIBER CABINET DETAIL 2
 317TH TO 272ND

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PACIFIC HWY S AT S 312TH ST

PACIFIC HWY S AT S 288TH ST

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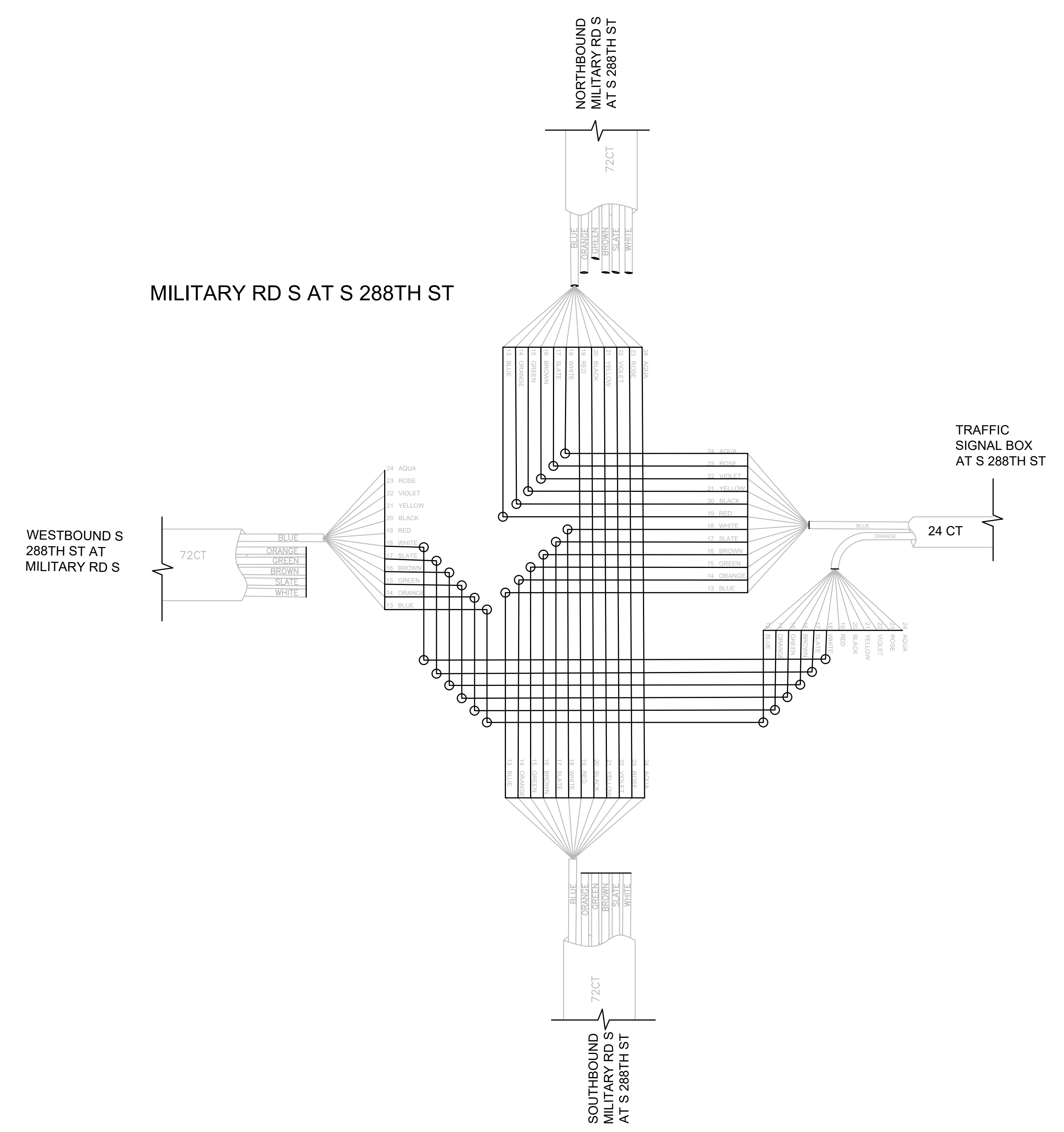
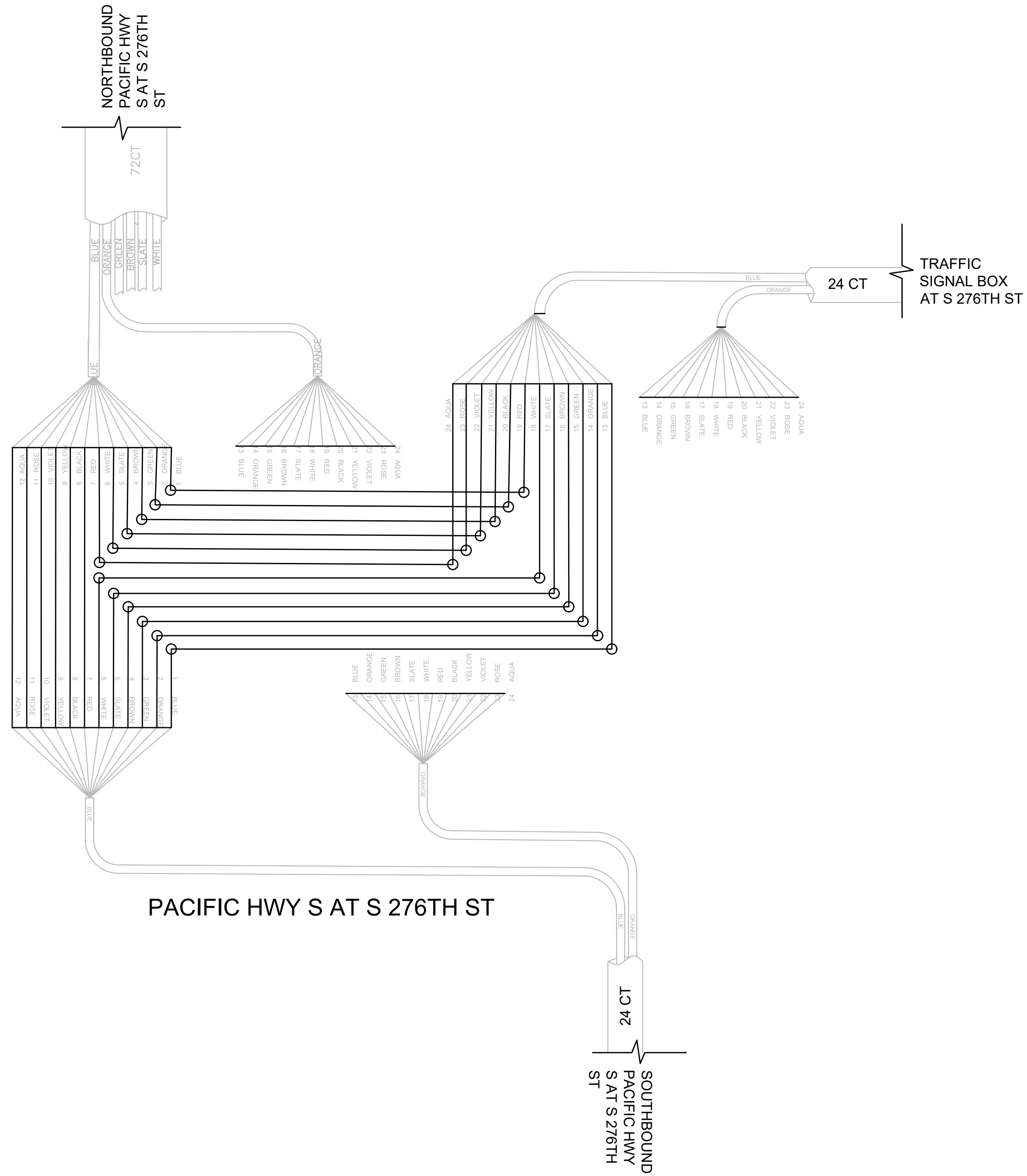


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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SPLICE DETAIL 1
PACIFIC HWY @ S 312TH & S 288TH ST

BID SET
 CITY PROJECT #:
36239
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DT 3
 21 OF 39

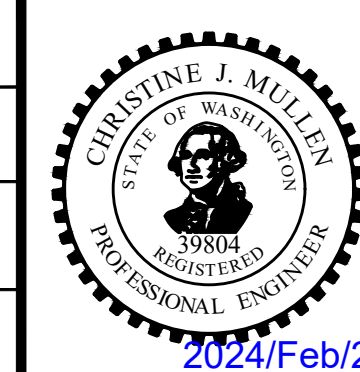
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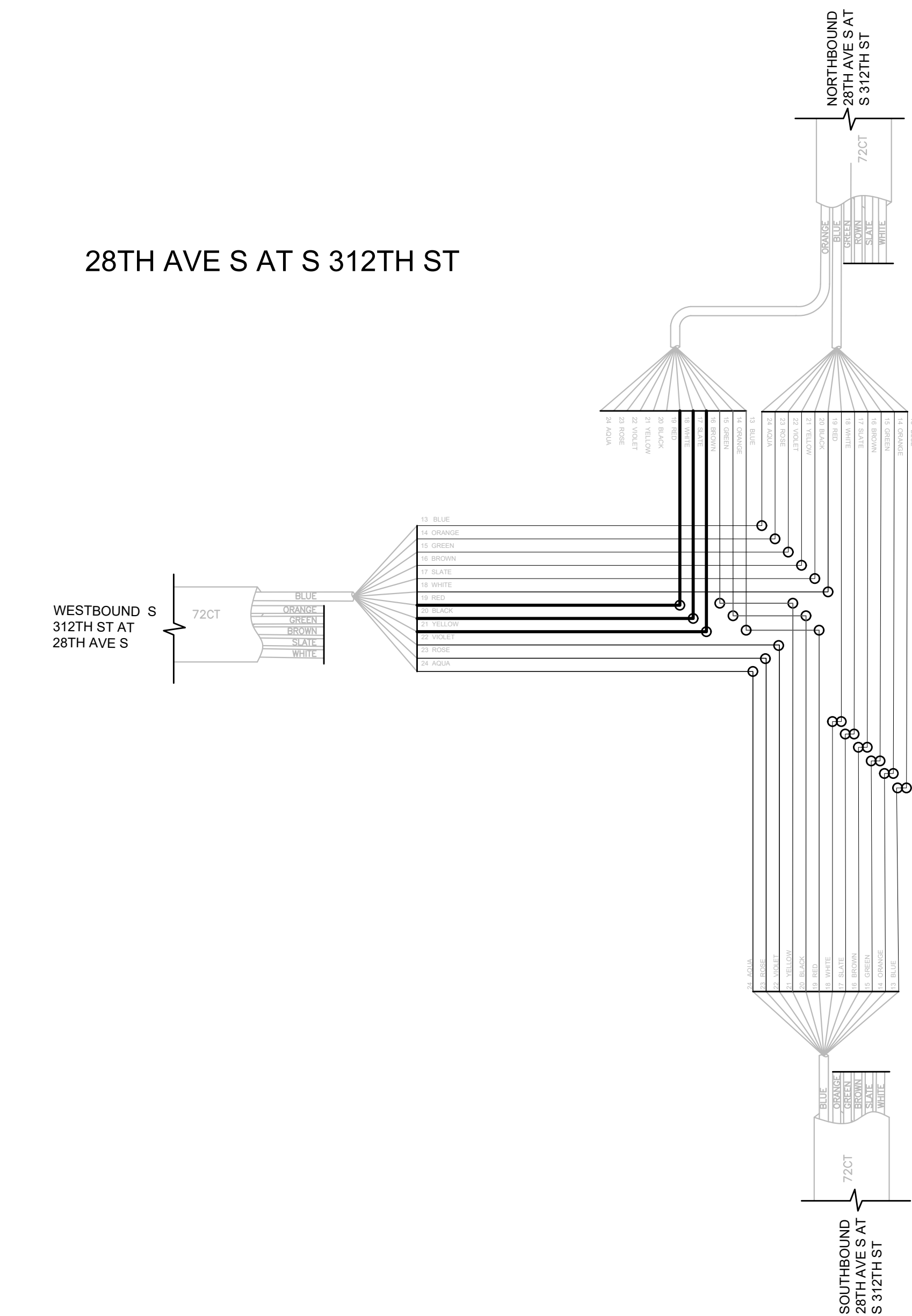
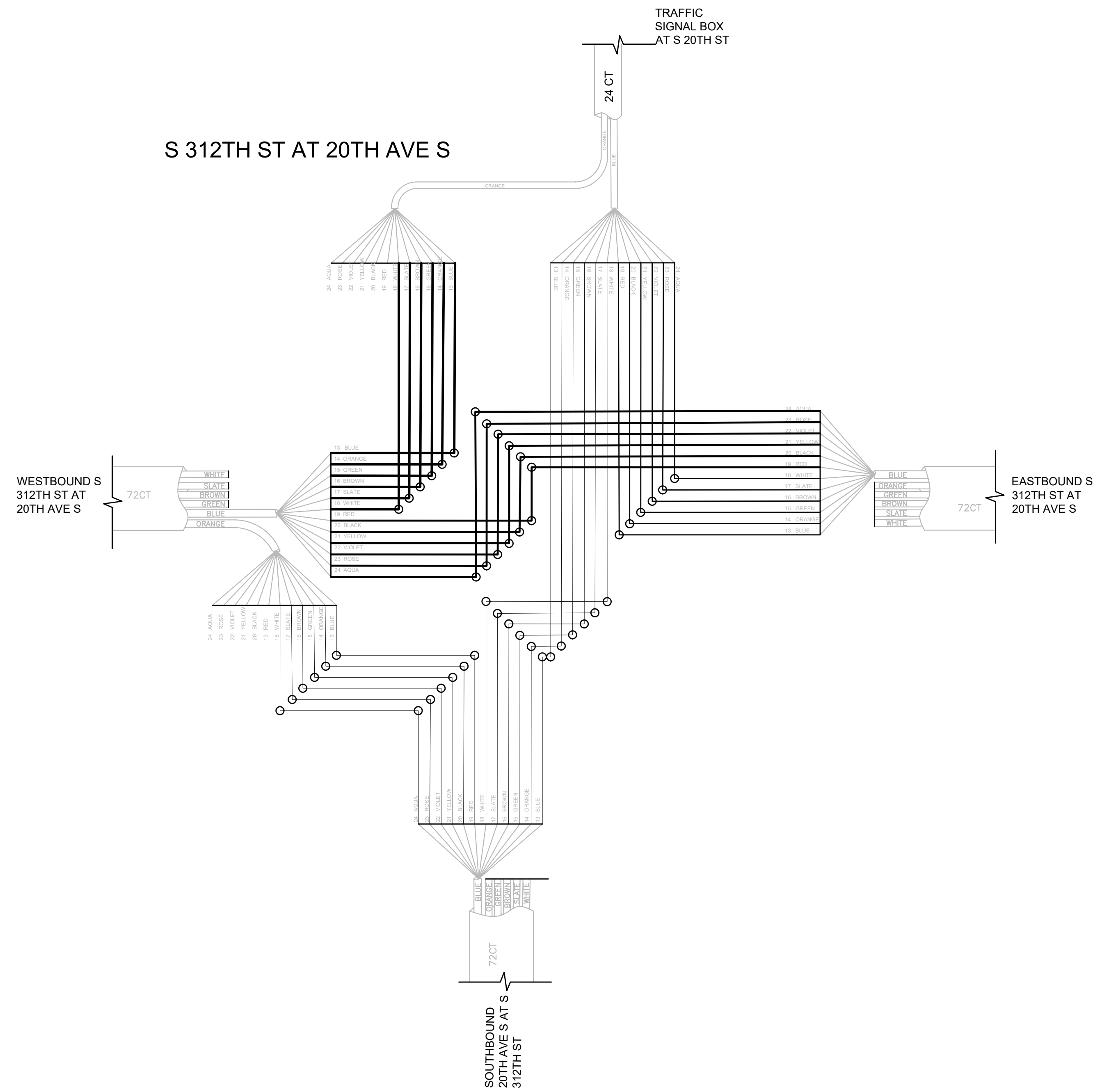
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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

SPLICE DETAIL 2
 PACIFI HWY S @ S 276TH S & MILITARY RD S @ S 288TH ST

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 DT 4
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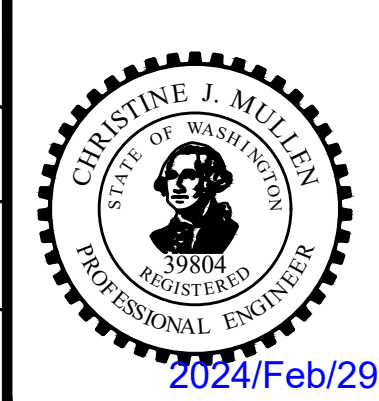


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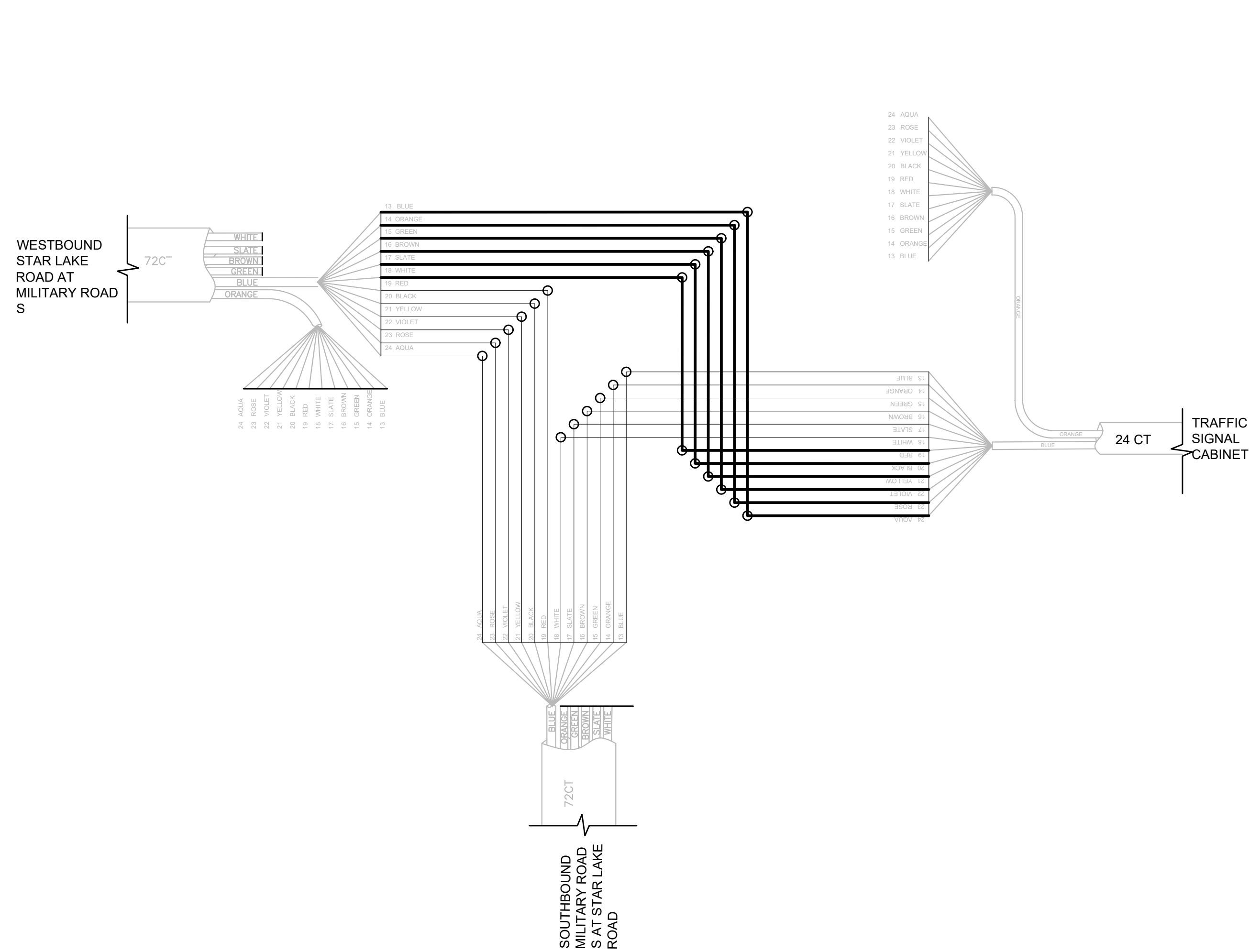


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NO.	DATE	REVISION

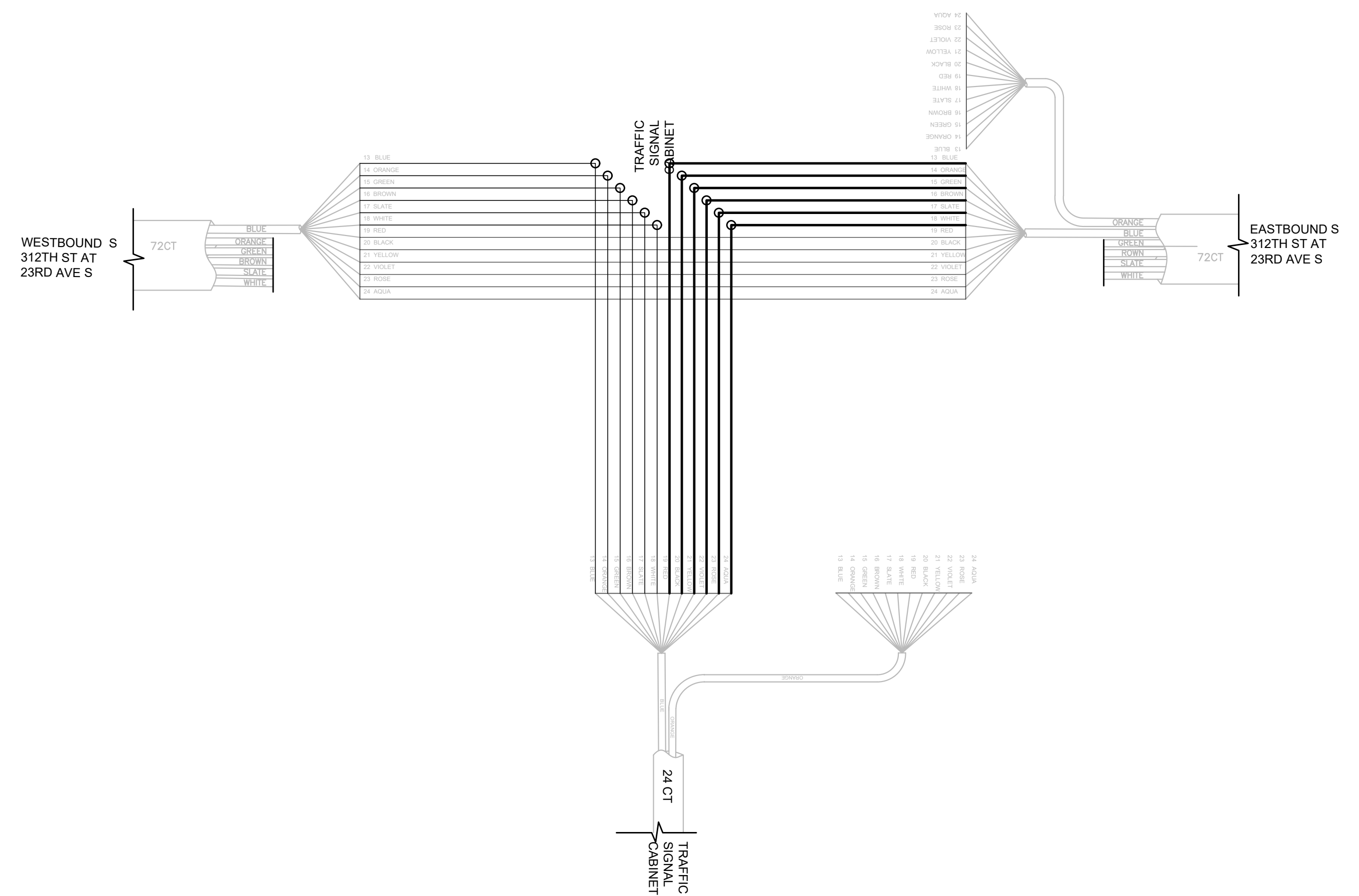
FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SPLICE DETAIL 3
S 312TH ST @ 20TH AVE S & 28TH AVE S @ S 312TH ST

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CITY PROJECT #:
36239
SHEET
DT 5
23 OF 39

MILITARY ROAD S & STAR LAKE ROAD



23RD AVE S AT S 312TH ST

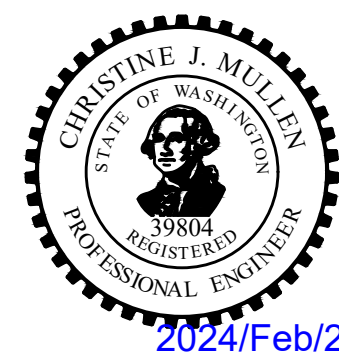


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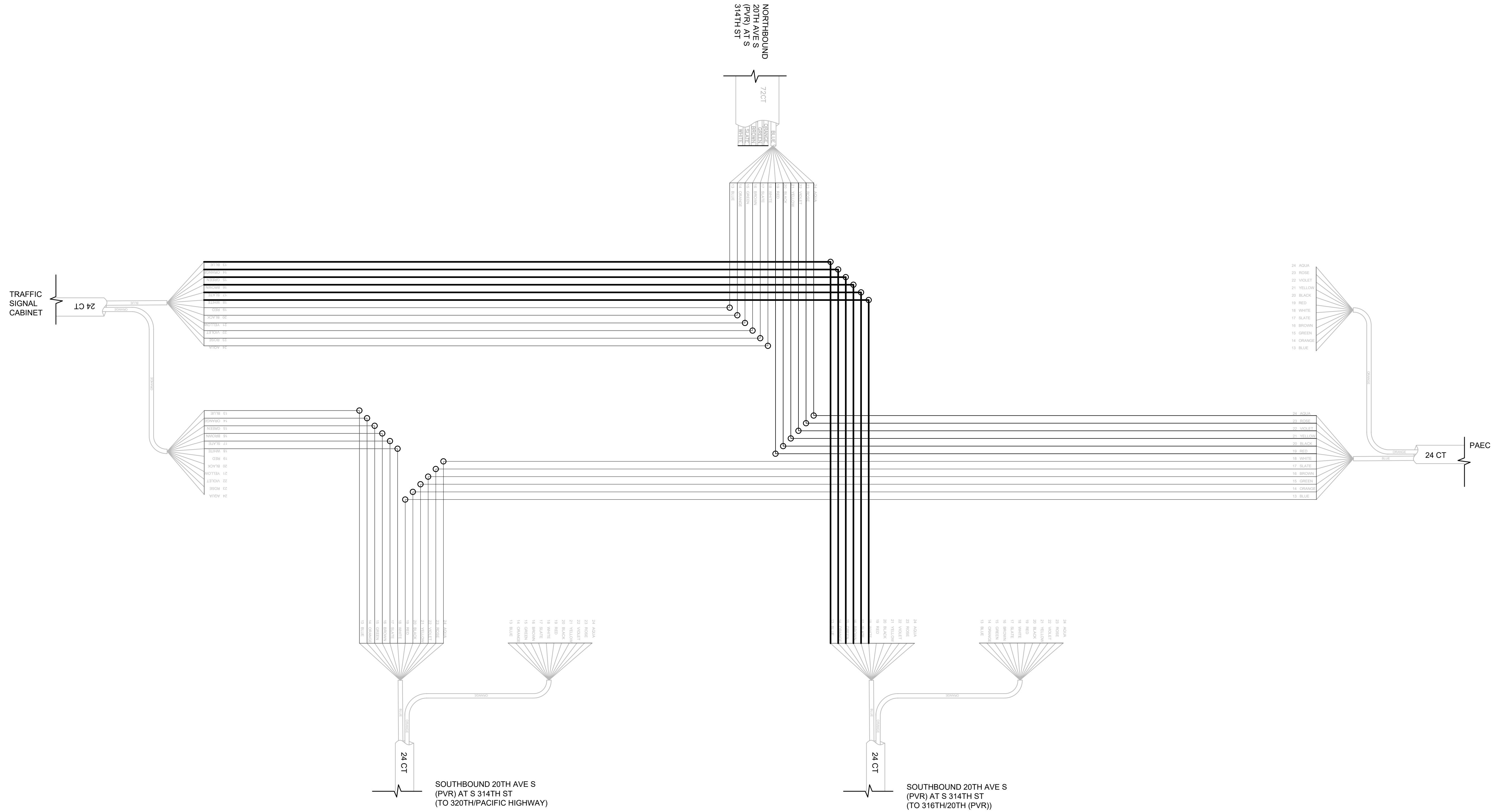
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NO.	DATE	REVISION

FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SPLICE DETAIL 4
MILITARY RD S @ STAR LAKE RD & 23RD AVE S @ S 312TH ST

CITY PROJECT #:
36239
SHEET
DT 6
24 OF 39

20TH AVE S (PVR) & S 314TH ST

NOTE: SPLICING AT THIS LOCATION REQUIRES COORDINATION WITH CITY IT STAFF AND PAEC MANAGEMENT DUE TO LIVE CIRCUITS



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SPLICE DETAIL 5
20TH AVE S @ S 314TH ST

CITY PROJECT #:

36239

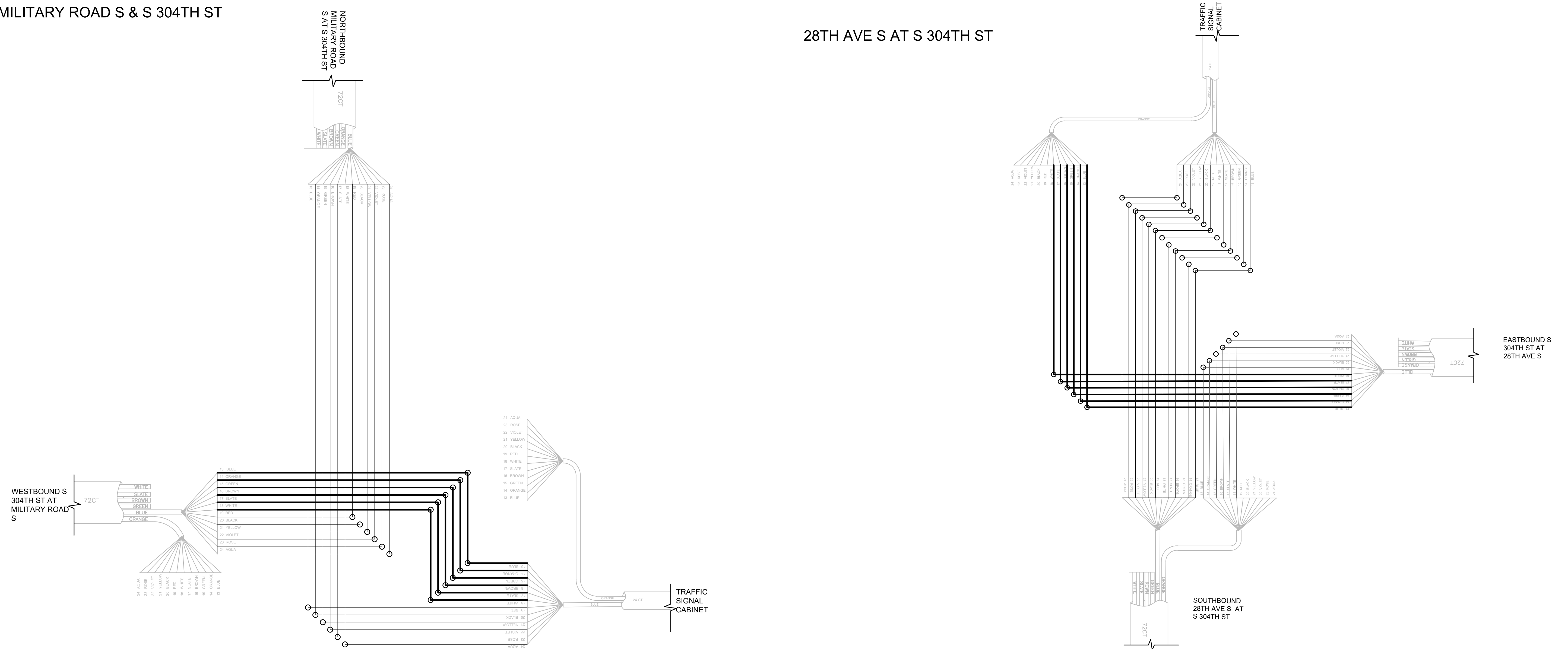
SHEET

DT 7

25 OF 39

MILITARY ROAD S & S 304TH ST

28TH AVE S AT S 304TH ST



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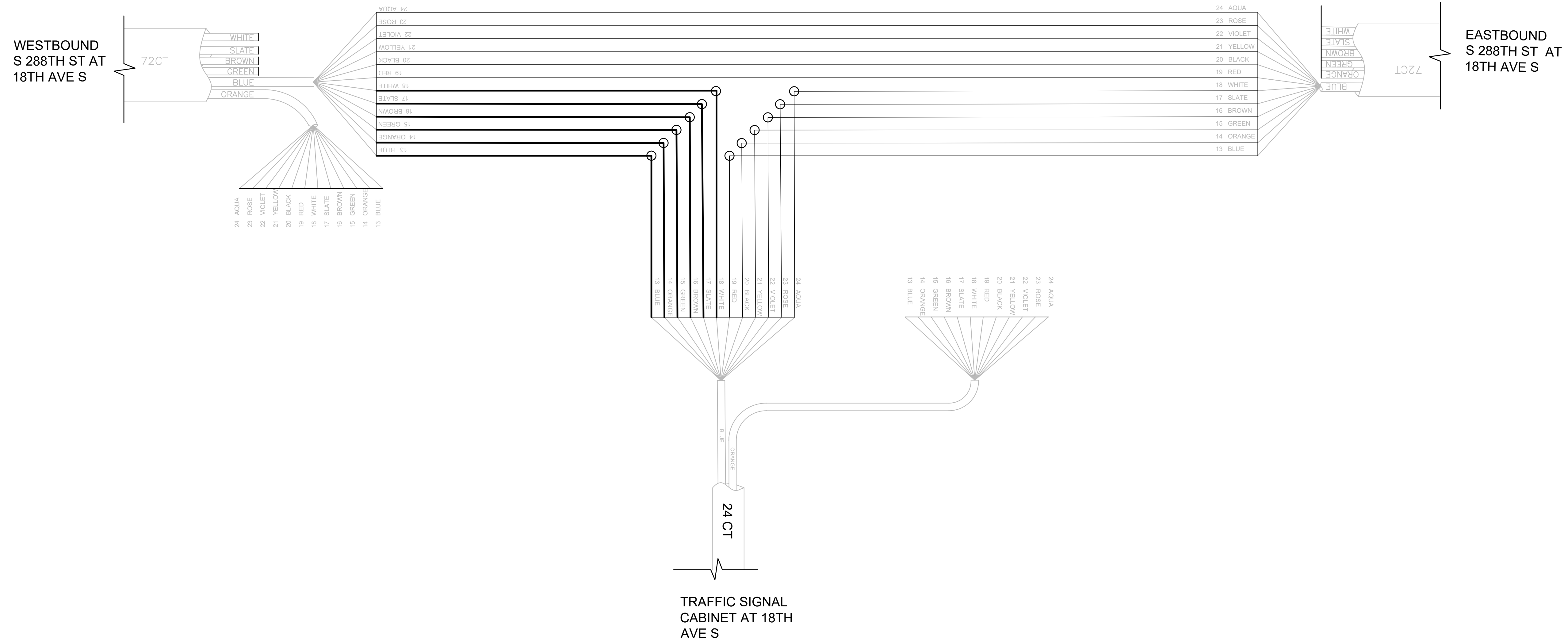
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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
SPLICE DETAIL 6
S 304TH ST @ MILITARY RD S & 28TH AVE S

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DT 8
26 OF 39

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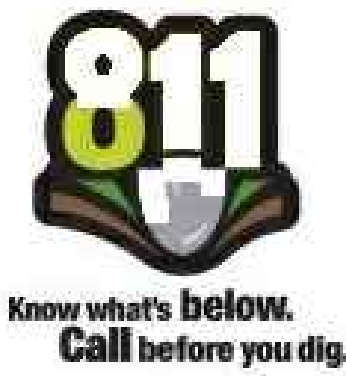
18TH AVE S & S 288TH ST



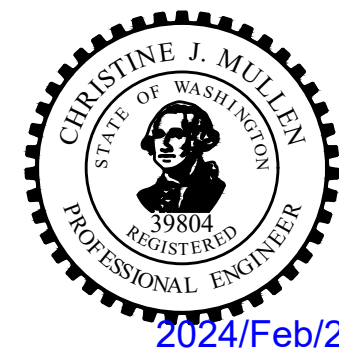
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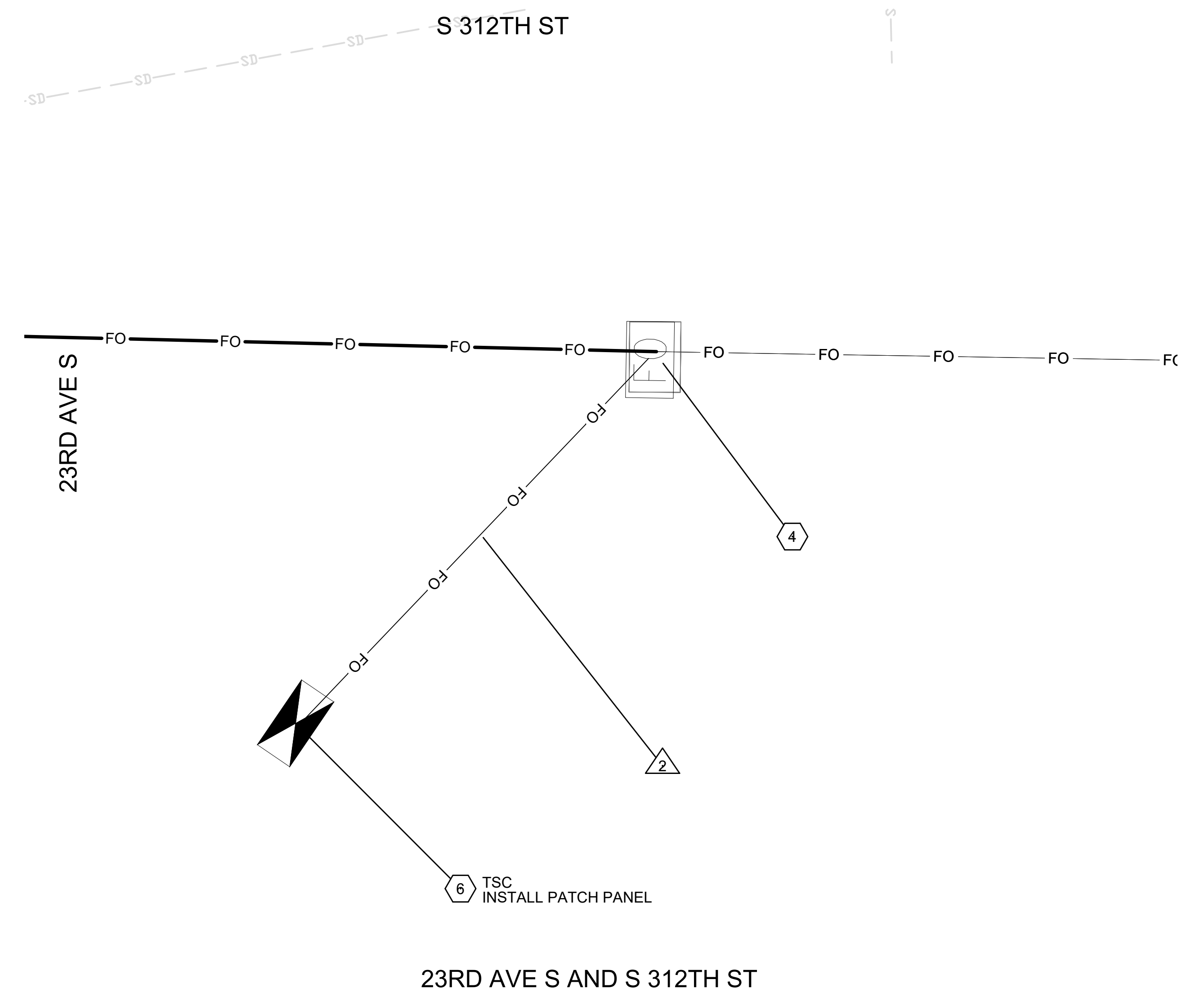
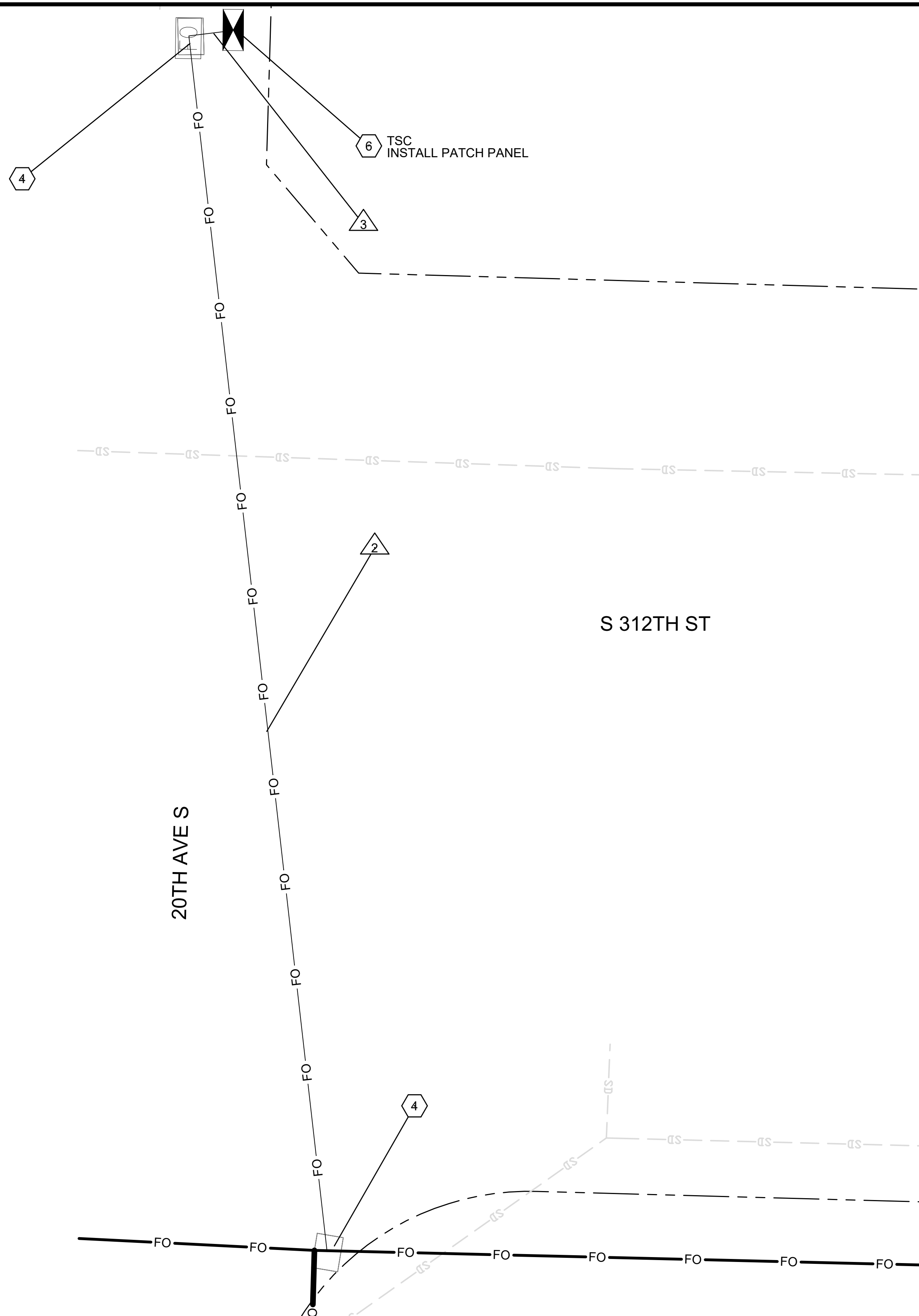
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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

SPLICE DETAIL 7
S 288TH ST AT 18TH AVE S

CITY PROJECT #:
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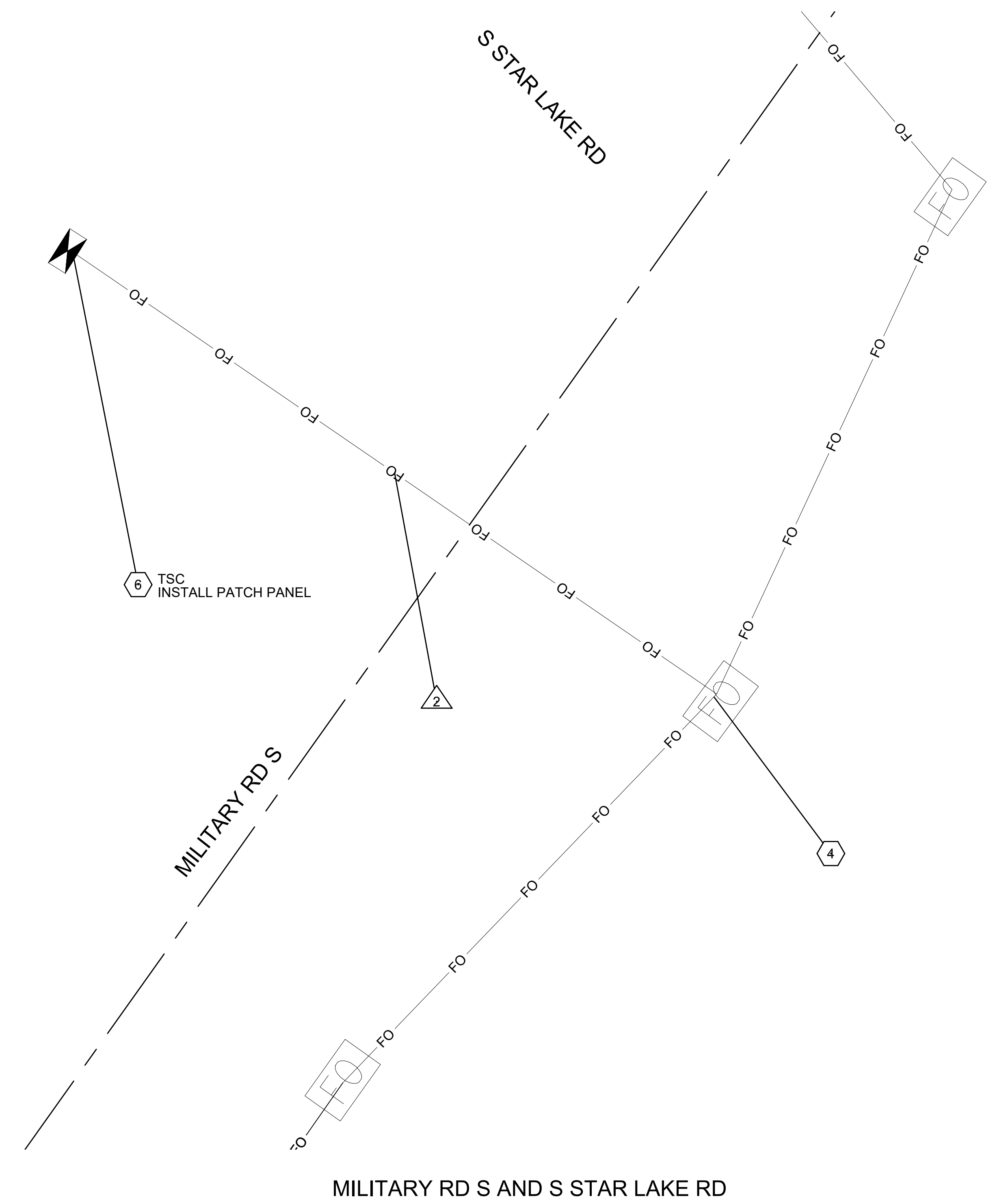
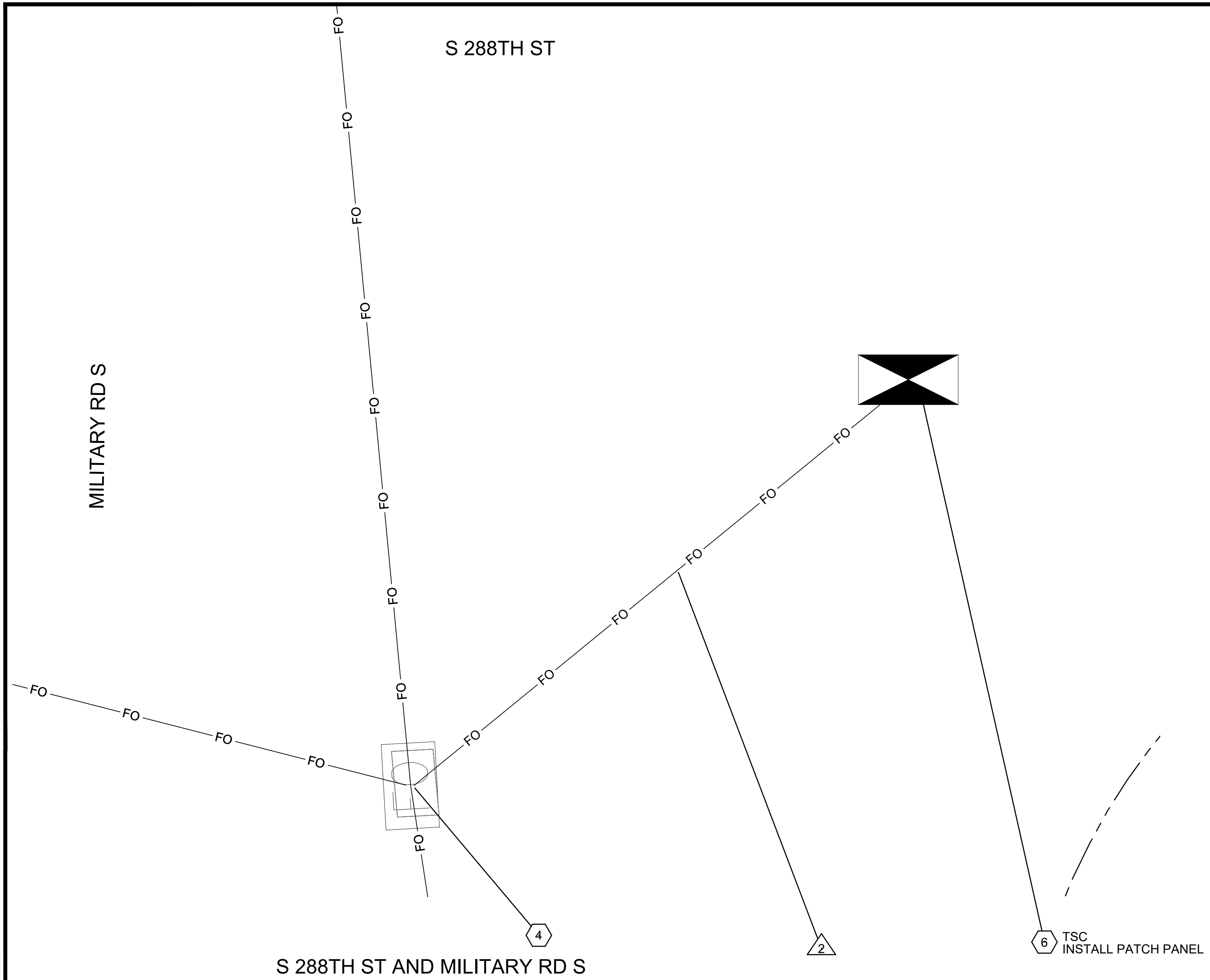


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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
INTERSECTION DETAIL 3
S 312 ST

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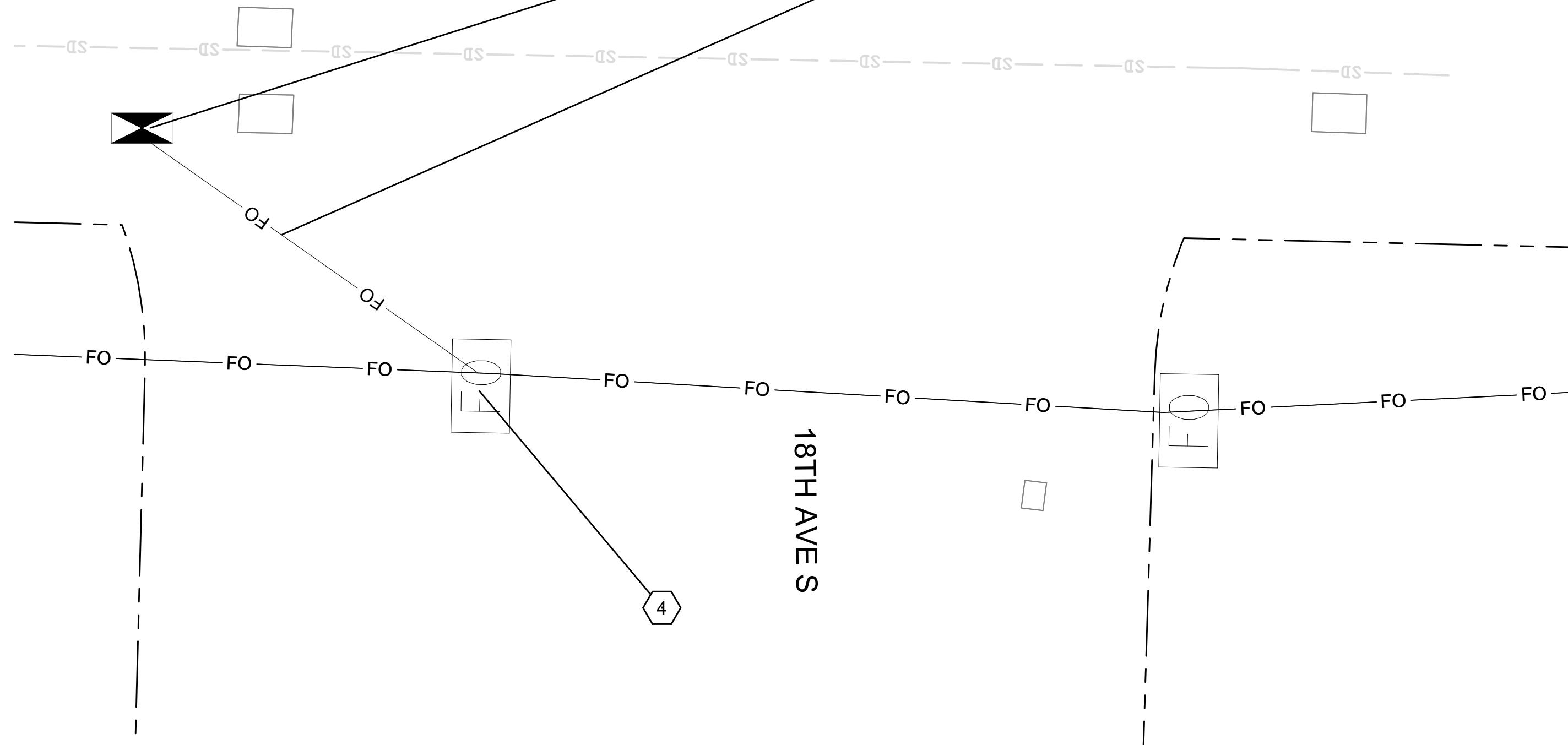
FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
 INTERSECTION DETAIL 2
 MILITARY RD S

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S 288TH ST

6 TSC
INSTALL PATCH PANEL

2



18TH AVE S

S 288TH ST AND 18TH AVE S

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PROFESSIONAL ENGINEER
2024/Feb/29

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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

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INTERSECTION DETAIL 3
S 288TH ST AND 18TH AVE S

SHEET
DT 12

30 OF 39

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	120	130	150	160	170	190
10'	40	60	90	90	150	170	190	200	220	240

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

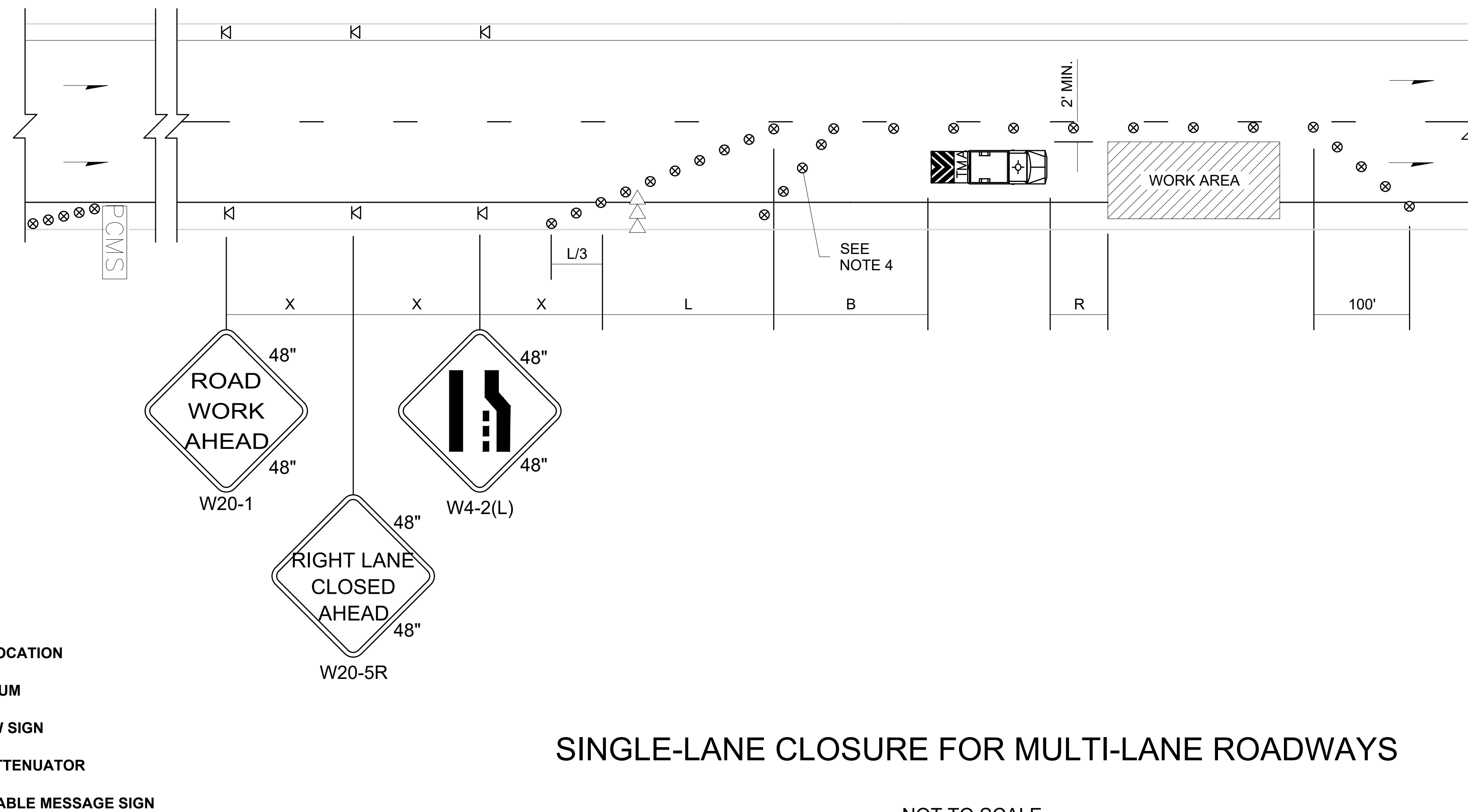
SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500'
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
LENGTH (feet)	25	30	35	40	45	50	55	60	65	70
	155	200	250	305	360	425	495	570	645	730

BUFFER VEHICLE ROLL AHEAD DISTANCE = R	
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.	30 FEET MIN. TO 100 FEET MAX.



PCMS	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE 1 MILE IN ADVANCE OF LANE CLOSURE SIGNING.

NOTES:

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
- DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANE.
- USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' (FT) (RECOMMENDED).
- DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
- ALL SIGNS ARE BLACK ON ORANGE.

SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

NOT TO SCALE

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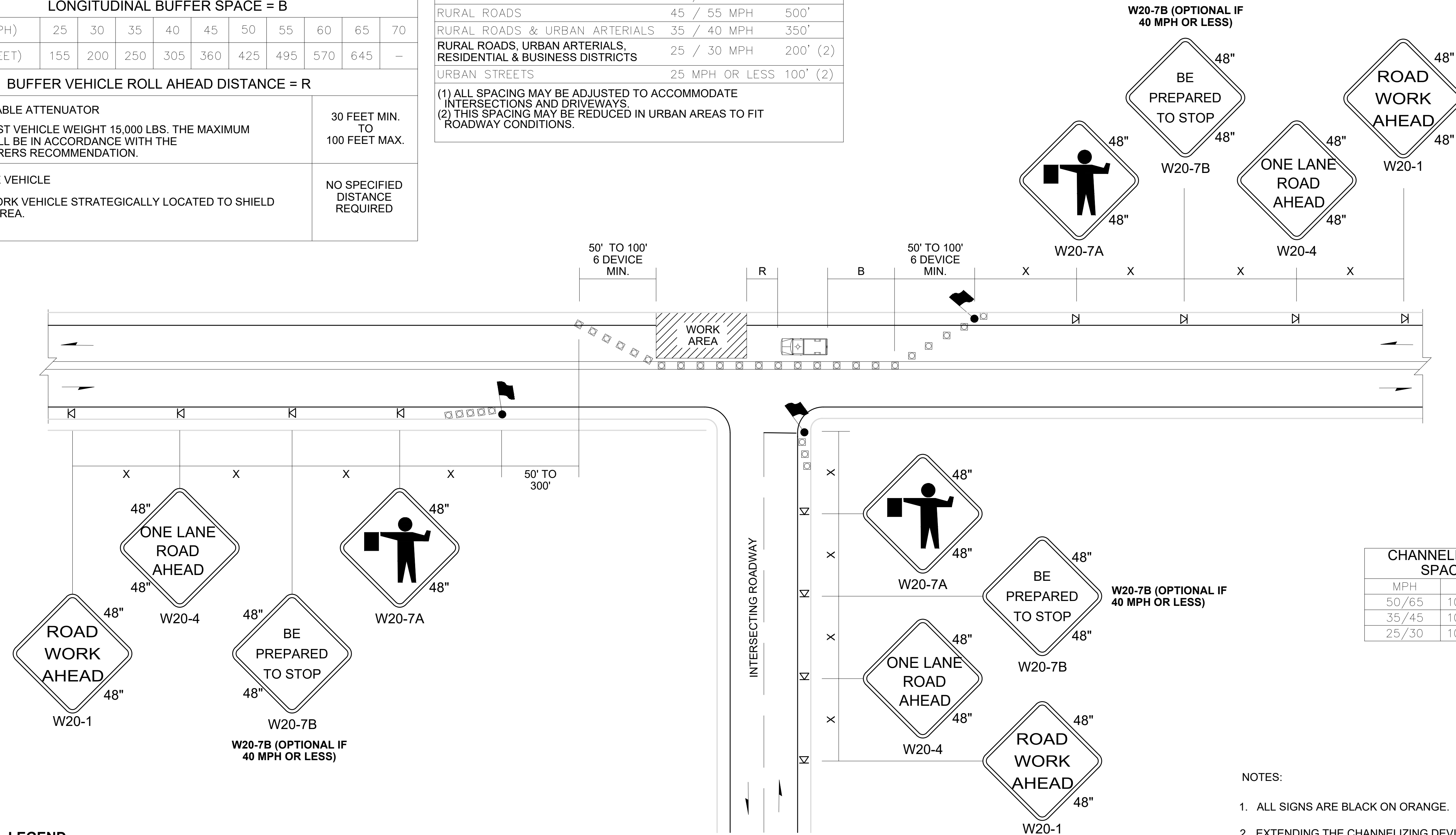
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NO.	DATE	REVISION

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FEET)	155	200	250	305	360	425	495	570	645	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR								30 FEET MIN. TO 100 FEET MAX.		
MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										
PROTECTIVE VEHICLE								NO SPECIFIED DISTANCE REQUIRED		
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.										

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50/65	10 TO 20	80
35/45	10 TO 20	60
25/30	10 TO 20	40

- LEGEND**
- FLAGGING STATION
 - TEMPORARY SIGN LOCATION
 - CHANNELIZING DEVICES
 - PROTECTIVE VEHICLE

- NOTES:**
1. ALL SIGNS ARE BLACK ON ORANGE.
 2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
 3. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
 4. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.

ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS

NOT TO SCALE

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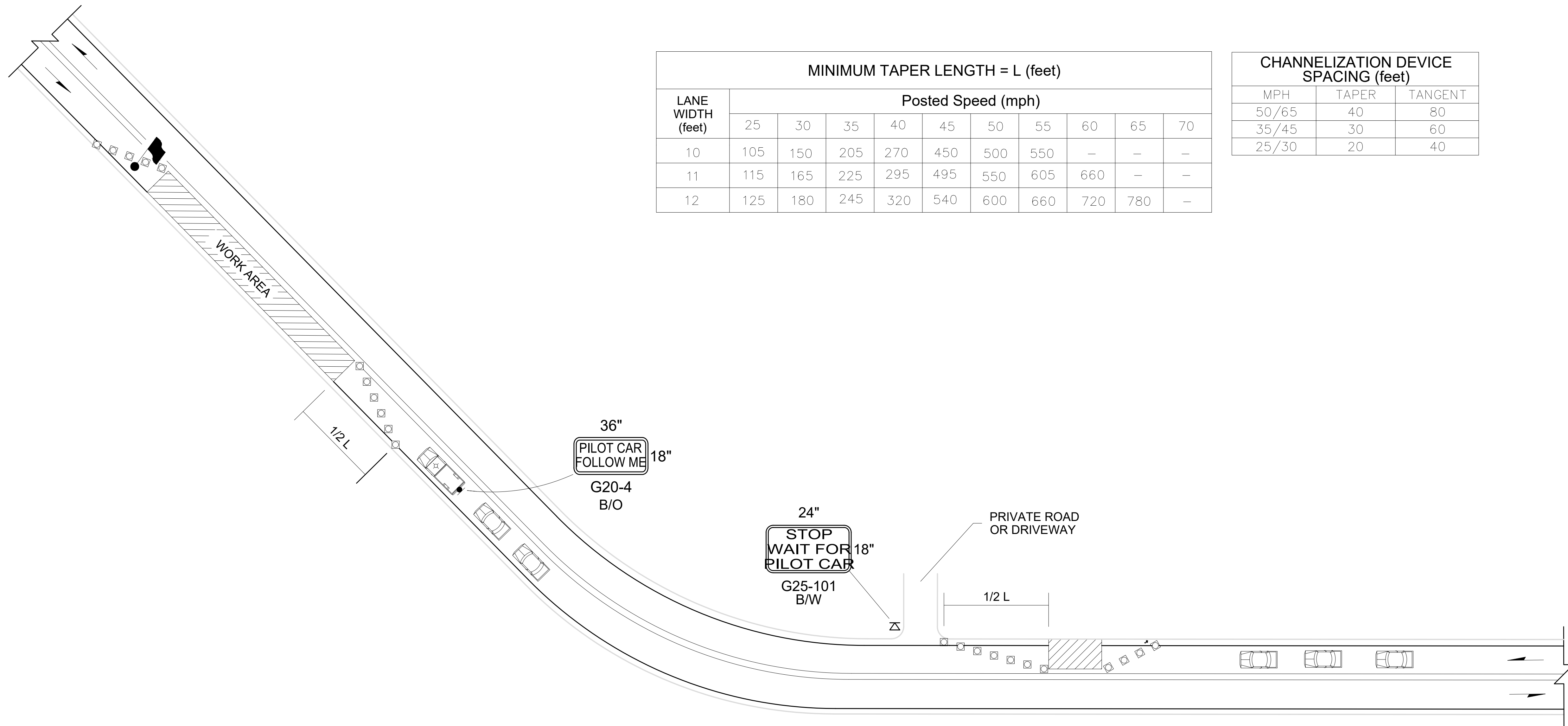
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REVIEWED: C. MULLEN
APPROVED: C. MULLEN

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STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
2024/Feb/29

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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
TRAFFIC CONTROL PLAN
317TH TO 272ND



LANE WIDTH (feet)	MINIMUM TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-

MPH	CHANNELIZATION DEVICE SPACING (feet)	
	TAPER	TANGENT
50/65	40	80
35/45	30	60
25/30	20	40

- LEGEND**
- FLAGGING STATION
 - TEMPORARY SIGN LOCATION
 - CHANNELIZING DEVICES
 - PILOT VEHICLE
 - MOTORIST VEHICLE

PILOT CAR OPERATION

NOT TO SCALE

NOTES:

1. REFER TO SHEET TC1 FOR ADDITIONAL SIGNING AND FLAGGING DETAILS NOT SHOWN.
2. CHANNELIZING DEVICES ARE RECOMMENDED ALONG CENTERLINE TO SEPARATE TRAFFIC FROM WORK OPERATION. DEVICES ARE REQUIRED AT TAPERS TO SHIFT TRAFFIC MOVEMENT BETWEEN LANES AND TO PROTECT FLAGGING STATIONS.
3. SIGN G25-101 IS RECOMMENDED FOR NON-STOP SIGN CONTROLLED APPROACHES SUCH AS PRIVATE ROADS AND DRIVEWAYS. THIS SIGN IS NOT REQUIRED TO BE ALUMINUM SUBSTRATE AND CAN BE MADE OF ALTERNATIVE MATERIALS.

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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

TRAFFIC CONTROL PLAN
317TH TO 272ND

CITY PROJECT #:
36239

SHEET
TC 3

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SIGN SPACING = X (1)		
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)

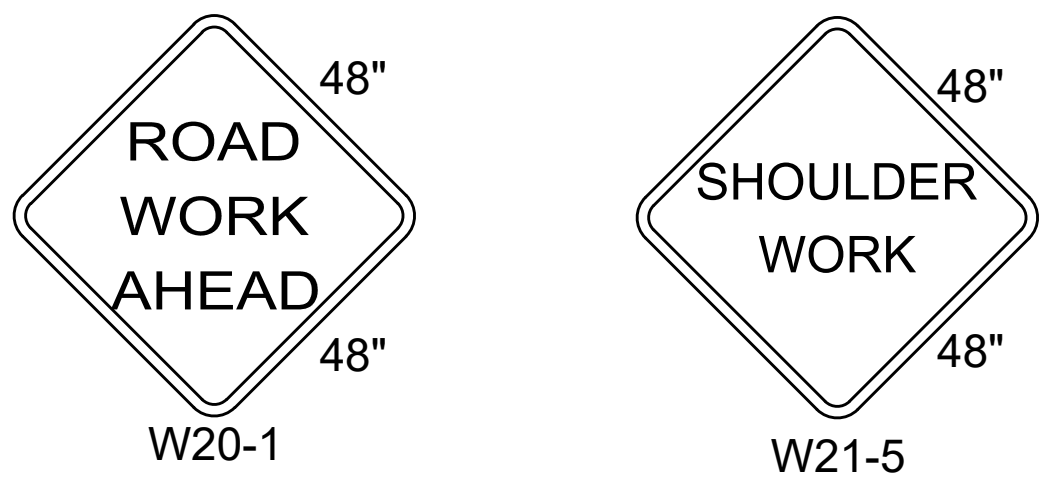
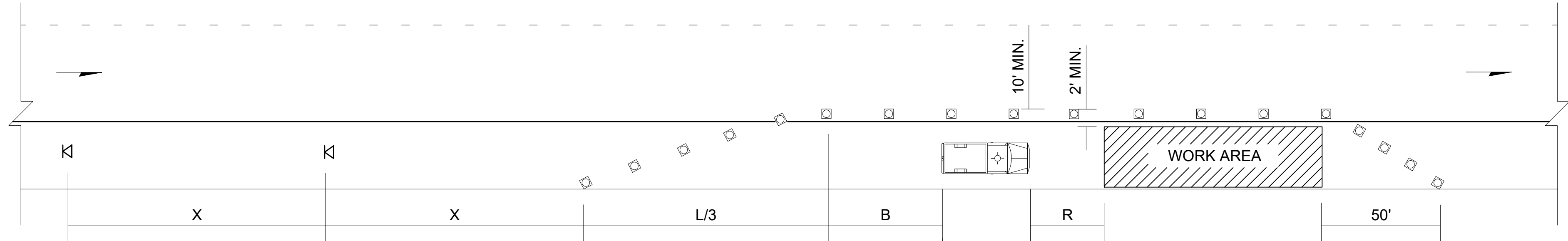
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	-	-	-	-	-	-
10'	40	60	90	90	-	-	-	-	-	-

USE A 3 DEVICES TAPER FOR SHOULDERS LESS THEN 8'

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305						
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.									30 FEET MIN. TO 100 FEET MAX.	
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.									NO SPECIFIED DISTANCE REQUIRED	



- LEGEND**
- ⊓ TEMPORARY SIGN LOCATION
 - CHANNELIZING DEVICES
 - PROTECTIVE VEHICLE

**SHOULDER CLOSURE - LOW SPEED
(40 MPH OR LESS)**

NOT TO SCALE

- NOTES:
1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
 2. ALL SIGNS ARE BLACK ON ORANGE.

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BID SET
CITY PROJECT #:
36239
SHEET
TC 4
34 OF 39

CITY OF Federal Way
Centered on Opportunity
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PHONE: (253) 835-2700
WWW.CITYOFFEDERALWAY.COM



DRAFTED: J. COLE
DESIGNED: J. COLE
REVIEWED: C. MULLEN
APPROVED: C. MULLEN



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

TRAFFIC CONTROL PLAN
317TH TO 272ND

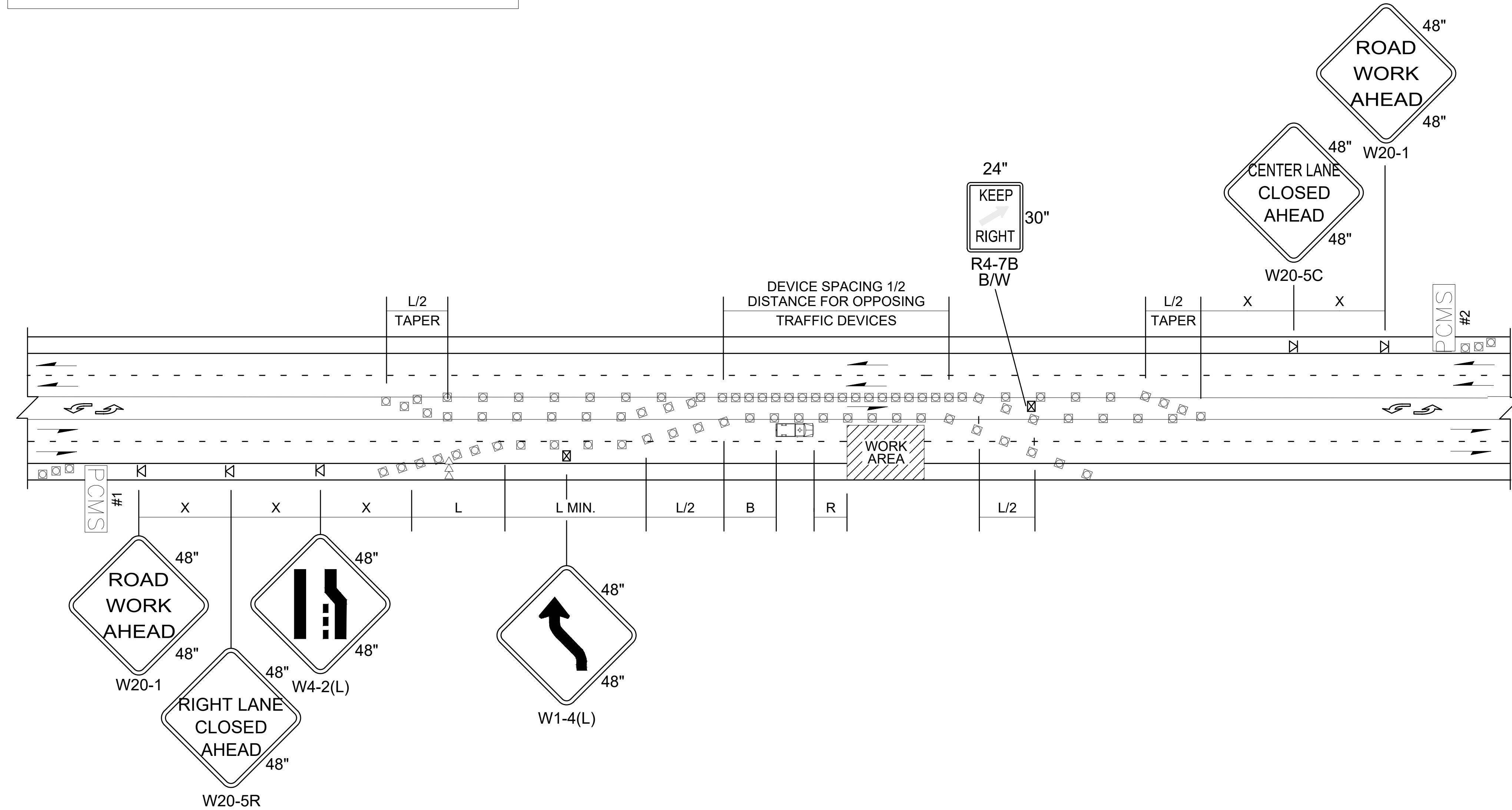
SIGN SPACING = X (1)		
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

LANE WIDTH (feet)	MINIMUM TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	-	-	-	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										30 FEET MIN. TO 100 FEET MAX.
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.										NO SPECIFIED DISTANCE REQUIRED



PCMS #1	
1	2
RIGHT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCMS #2	
1	2
CENTER LANE CLOSED	NNO LEFT TURNING
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

- LEGEND**
- ⊞ TEMPORARY SIGN LOCATION
 - ⊞ CHANNELIZING DEVICES
 - ⇨ SEQUENTIAL ARROW SIGN
 - ⊞ PROTECTIVE VEHICLE
 - PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 - ⊞ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

RIGHT LANE CLOSURE WITH SHIFT - 5 LANE ROADWAY

NOT TO SCALE

- NOTES:
- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
 - RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
 - FOR POSTED SPEED LIMITS OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
 - ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

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BID SET
CITY PROJECT #:
36239
SHEET
TC 5
35 OF 39

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APPROVED: C. MULLEN

CHRISTINE J. MULLEN
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
2024/Feb/29

DRAWING VERSION / REVISION LOG		
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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
TRAFFIC CONTROL PLAN
317TH TO 272ND

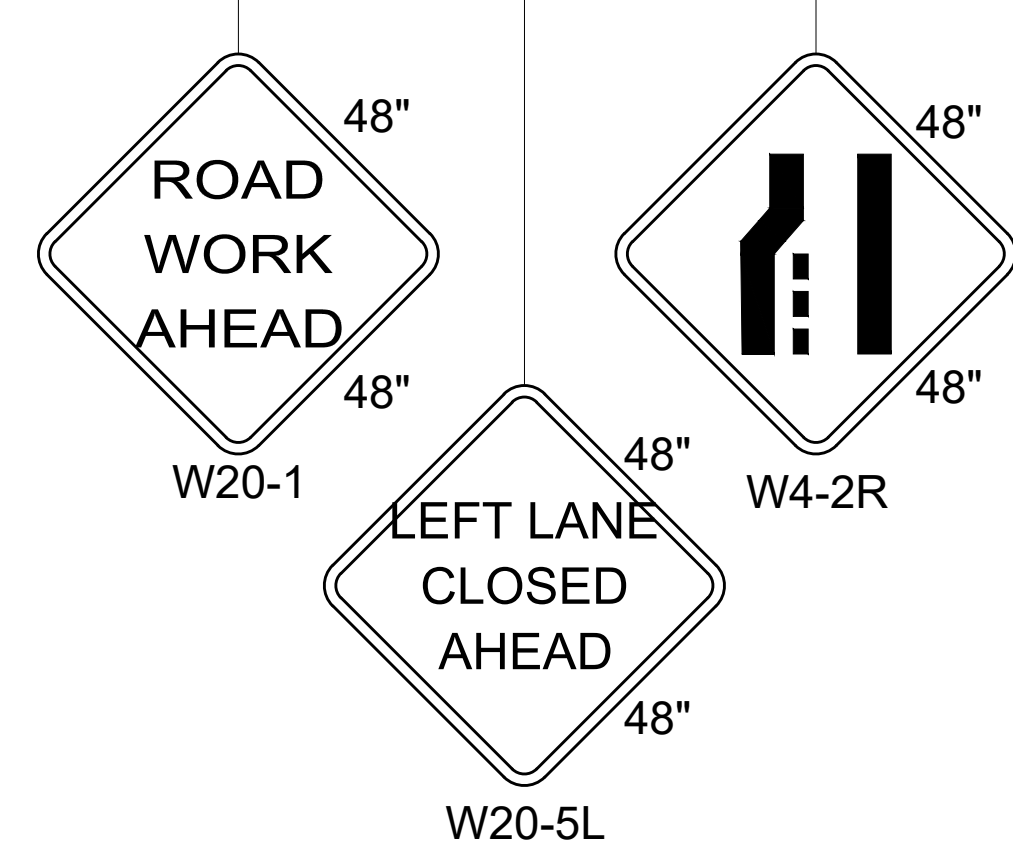
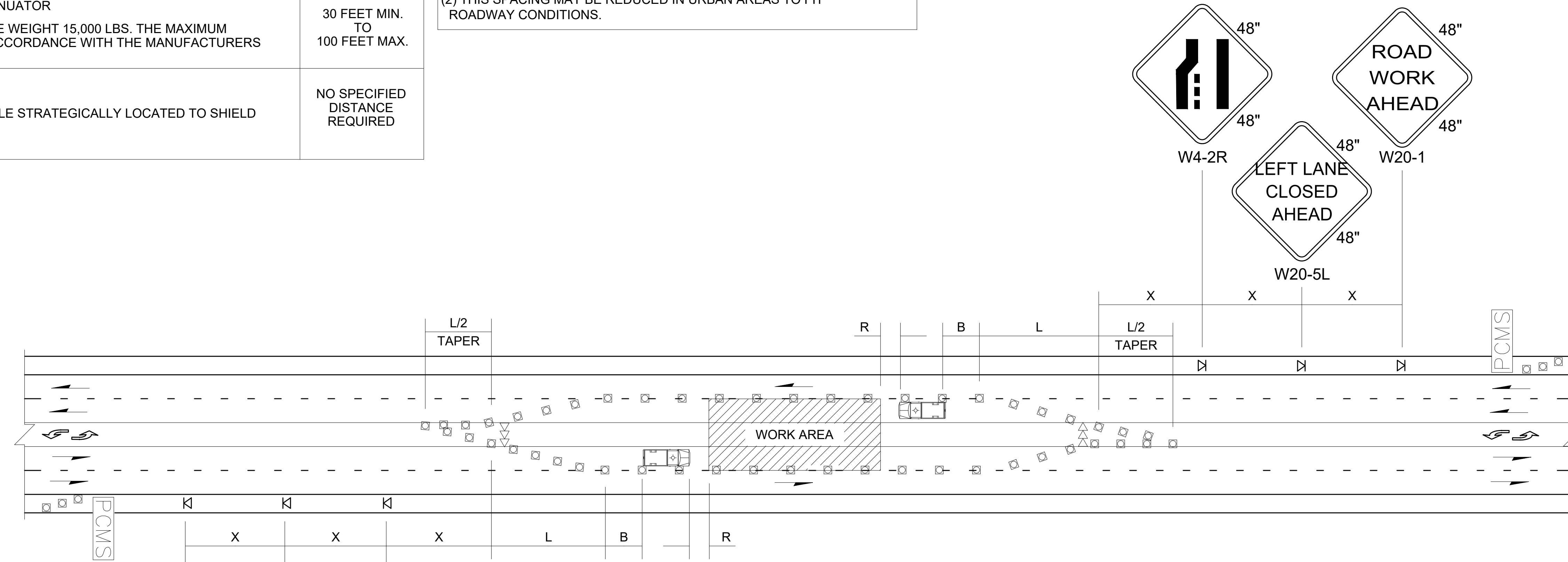
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	-	-	-	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.								30 FEET MIN. TO 100 FEET MAX.		
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.								NO SPECIFIED DISTANCE REQUIRED		

SIGN SPACING = X (1)		
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
		25	30	35	40	45	50	55	60	65
10	105	150	205	270	450	500	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40



PCMS	
1	2
CENTER LANE CLOSED	NNO LEFT TURNING
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

LEGEND

- K TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- ↔ SEQUENTIAL ARROW SIGN
- 🚚 PROTECTIVE VEHICLE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

LEFT LANE AND CENTER TURN LANE CLOSURE - 5 LANE ROADWAY

NOT TO SCALE

NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. ALL SIGNS ARE BLACK ON ORANGE.

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DRAFTED: J. COLE
DESIGNED: J. COLE
REVIEWED: C. MULLEN
APPROVED: C. MULLEN

DRAWING VERSION / REVISION LOG		
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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

TRAFFIC CONTROL PLAN

317TH TO 272ND

CITY PROJECT #: 36239
SHEET: TC 6
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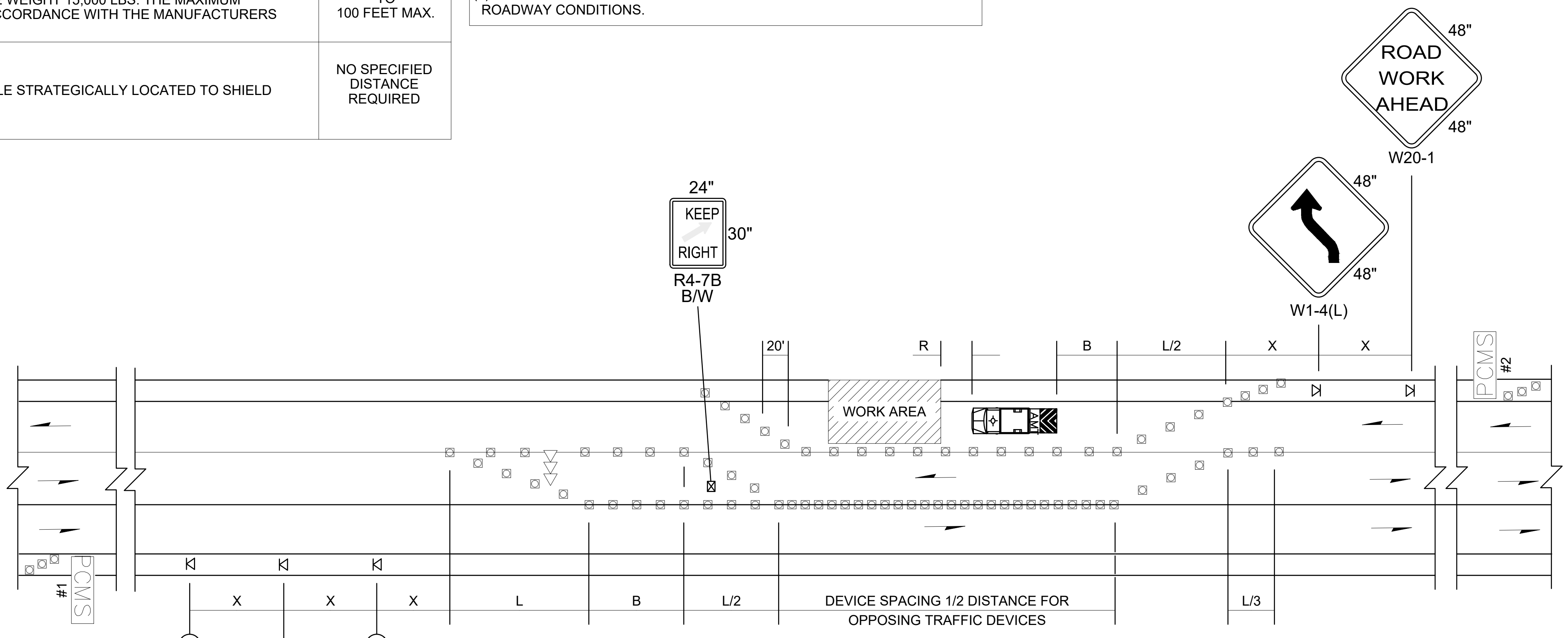
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										30 FEET MIN. TO 100 FEET MAX.
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.										NO SPECIFIED DISTANCE REQUIRED

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

LANE WIDTH (feet)	MINIMUM TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/60	40	80
35/45	30	60
25/30	20	40



PCMS #1	
1	2
LEFT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCMS #2	
1	2
LANE SHIFTS LEFT	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

- LEGEND**
- K TEMPORARY SIGN LOCATION
 - CHANNELIZING DEVICES
 - ⇒ SEQUENTIAL ARROW SIGN
 - ⊠ TRANSPORTABLE ATTENUATOR
 - PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 - ⊞ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. FOR SPEED LIMIT OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
3. RECOMMENDED EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
4. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

LANE SHIFT - THREE LANE ROADWAY

NOT TO SCALE

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CHRISTINE J. MULLEN
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
2024/Feb/29

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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

TRAFFIC CONTROL PLAN
317TH TO 272ND

CITY PROJECT #:
36239

SHEET
TC 7

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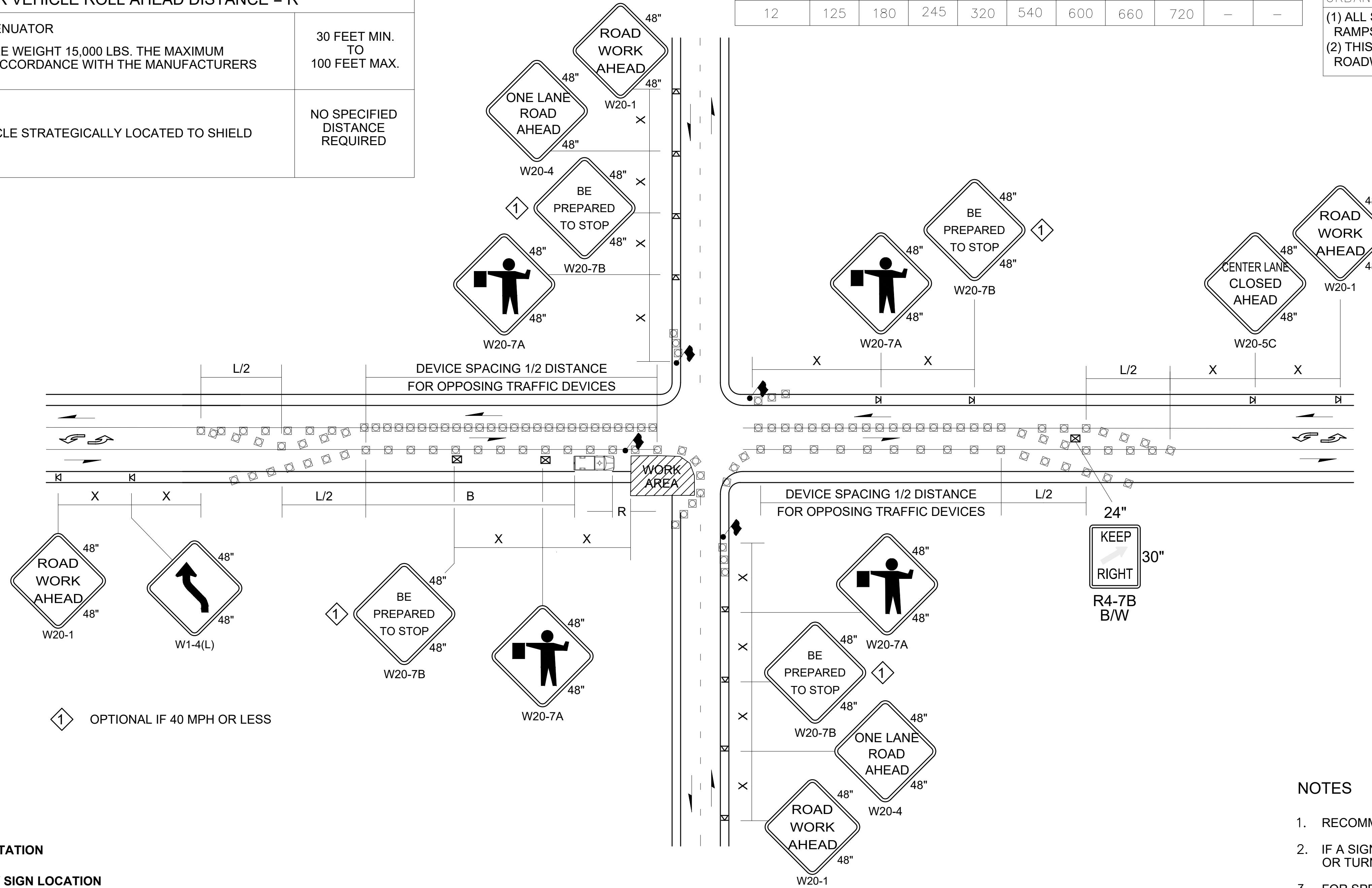
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.							30 FEET MIN. TO 100 FEET MAX.			
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.							NO SPECIFIED DISTANCE REQUIRED			

LANE WIDTH (feet)	MINIMUM TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' (2)
RESIDENTIAL & BUSINESS DISTRICTS		
URBAN STREETS	25 MPH OR LESS	100' (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40



1 OPTIONAL IF 40 MPH OR LESS

- LEGEND**
- FLAGGING STATION
 - TEMPORARY SIGN LOCATION
 - CHANNELIZING DEVICES
 - PROTECTIVE VEHICLE - RECOMMENDED
 - TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

INTERSECTION LANE CLOSURE ~ THREE LANE ROADWAY

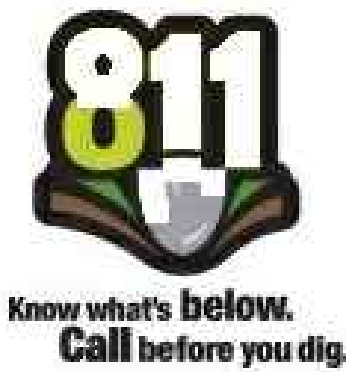
NOT TO SCALE

NOTES

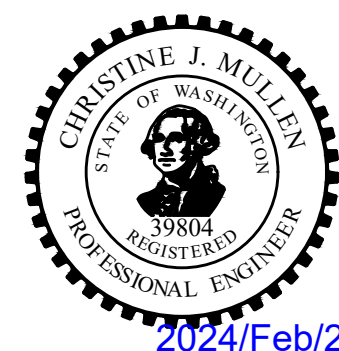
- RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" OR TURNED OFF DURING FLAGGING OPERATIONS.
- FOR SPEED LIMIT OF 30 MPH OR LESS USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

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BID SET



DRAFTED: J. COLE
DESIGNED: J. COLE
REVIEWED: C. MULLEN
APPROVED: C. MULLEN



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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST
TRAFFIC CONTROL PLAN
317TH TO 272ND

CITY PROJECT #:
36239
SHEET
TC 8
38 OF 39

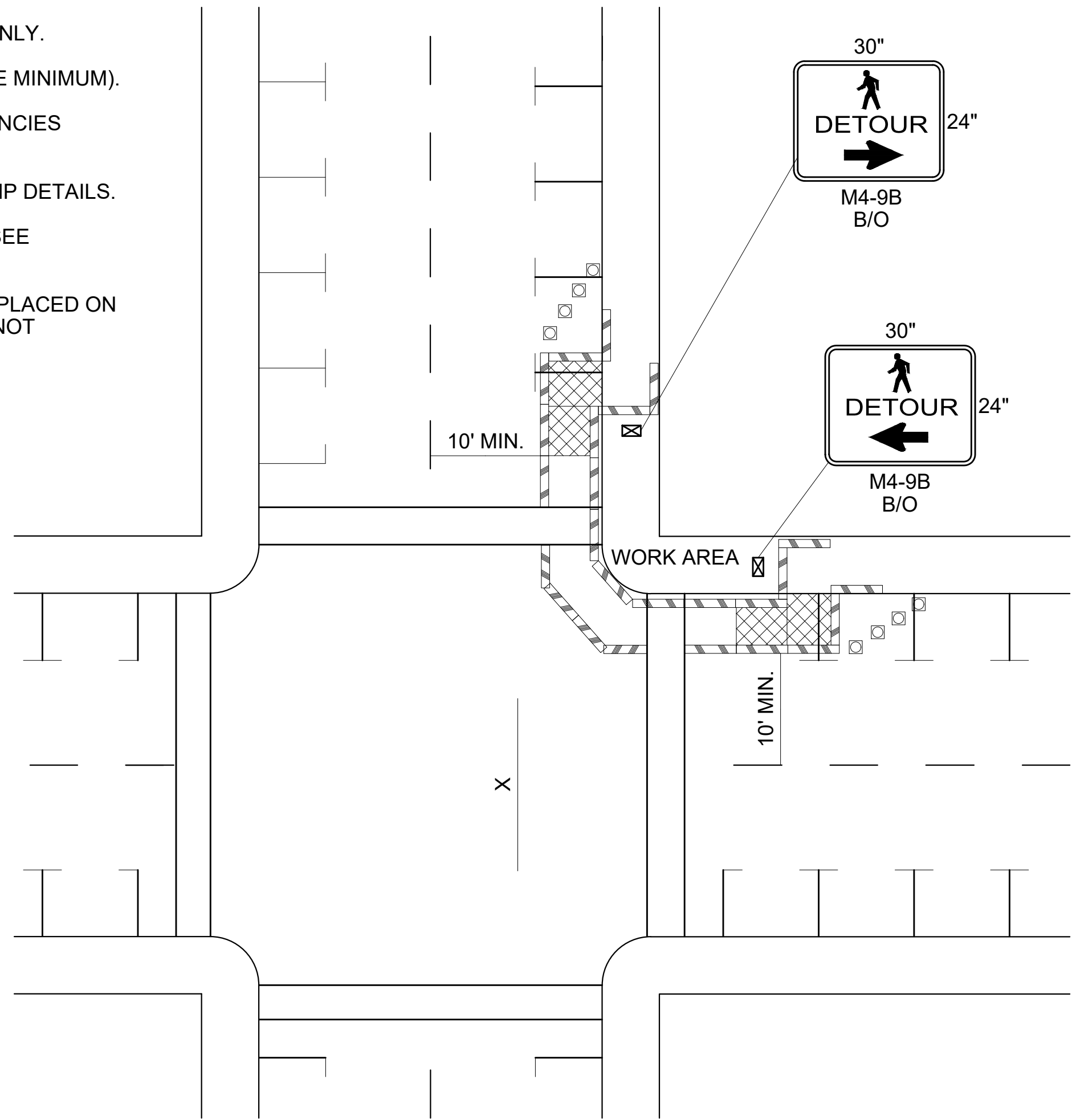
k:\engineering\division\PROJECTS\ACTIVE\36239 - fiber optic loop - 317th to 272nd\03 PE\ACAD\20 TC 8.dwg, 12/6/2022

NO PARKING R8-3
24" x 30"
R/W

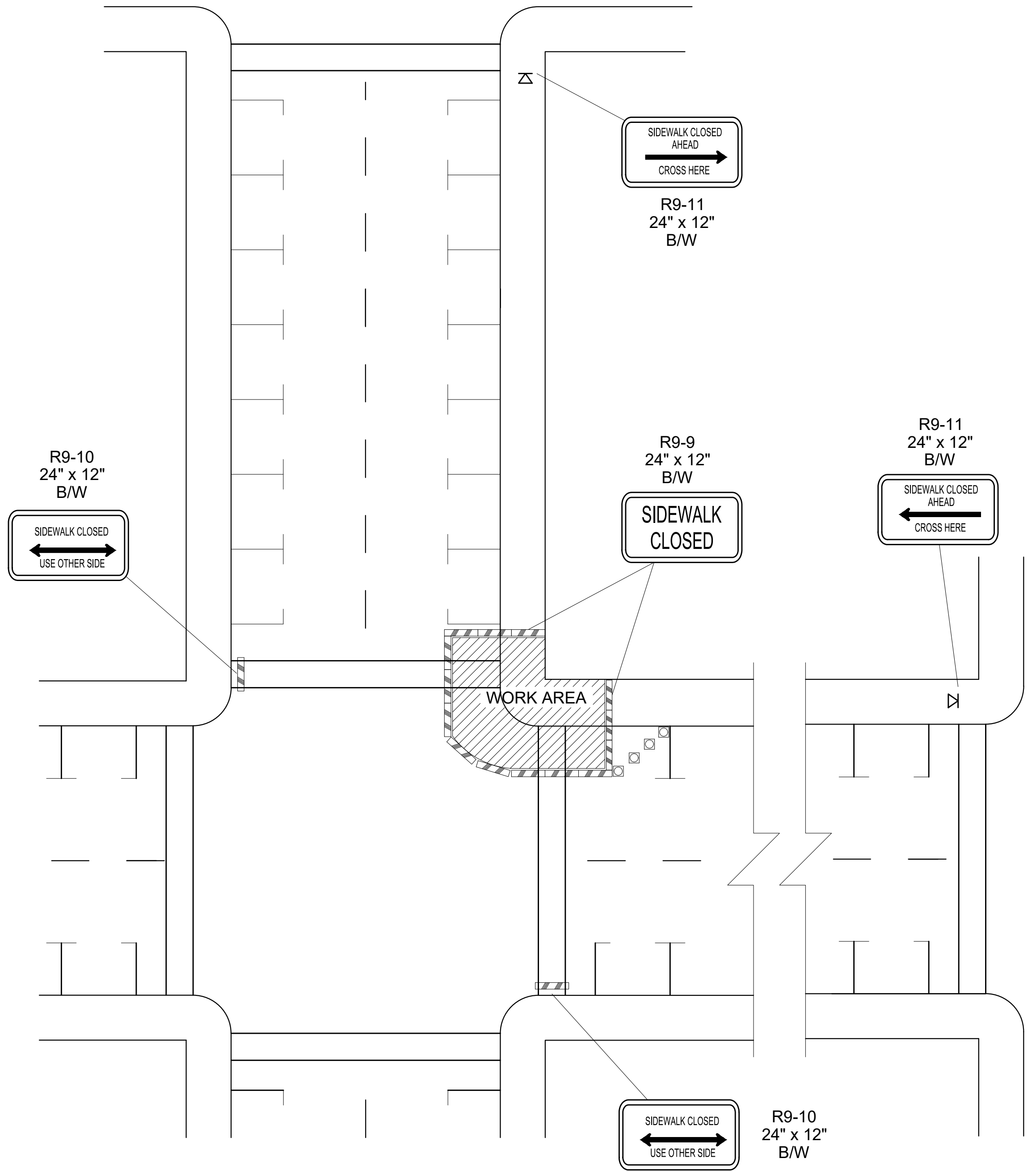
INSTALL ON TYPE 2 BARRICADES THROUGHOUT THE WORK AREA
24 HOURS PRIOR TO IMPLEMENTING TRAFFIC CONTROL.
PRIOR NOTIFICATION OF LOCAL LAW ENFORCEMENT REQUIRED.

NOTES

1. CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
2. A 60" PATH WIDTH SHOULD BE MAINTAINED (48" IS THE MINIMUM).
3. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
4. SEE SHEET TC-52 FOR TEMPORARY PEDESTRIAN RAMP DETAILS.
5. ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED. SEE STANDARD SPECIFICATION 1-10.2(1)B.
6. TEMPORARY PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON THE DIVERTED PATH WHEN EXISTING BUTTONS ARE NOT ACCESSIBLE TO PEDESTRIANS.



SIDEWALK DIVERSION



SIDEWALK DETOUR

INTERSECTION PEDESTRIAN TRAFFIC CONTROL

NOT TO SCALE

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BID SET

LEGEND

- ⊠ TEMPORARY SIGN LOCATION
- ⊠ CHANNELIZING DEVICES
- ▨ PEDESTRIAN CHANNELIZING DEVICES
- TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS

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APPROVED: C. MULLEN

CHRISTINE J. MULLEN
STATE OF WASHINGTON
39804 REGISTERED
PROFESSIONAL ENGINEER
2024/Feb/29

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FIBER OPTIC LOOP - S 317TH ST TO S 272ND ST

TRAFFIC CONTROL PLAN
317TH TO 272ND

CITY PROJECT #:
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SHEET
TC 9

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