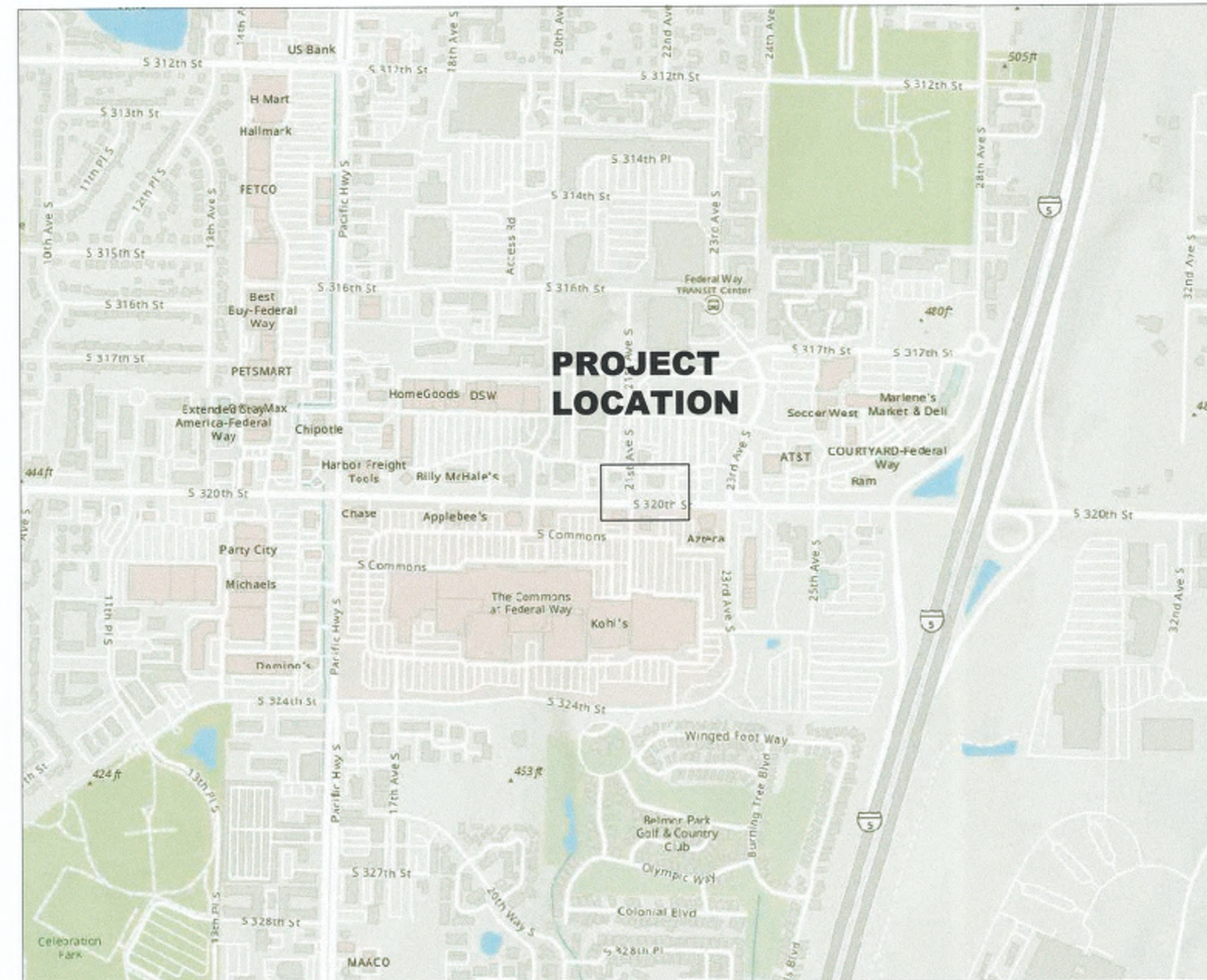


CITY OF FEDERAL WAY 21ST AVE S & S 320TH ST SIGNALIZATION AND PEDESTRIAN IMPROVEMENTS CITY PROJECT # 36225



PROJECT LOCATION MAP
NO SCALE



VICINITY MAP
NO SCALE

INDEX OF SHEETS:

CS01	SHEET INDEX, VICINITY MAP, PROJECT LOCATION MAP
	HORIZONTAL CONTROL SURVEY
	RIGHT-OF-WAY SURVEY
GN01	GENERAL NOTES
AL01	ALIGNMENT PLAN
SP01	SITE PREP PLAN
PV01	PAVING PLAN
DT01-DT03	GRADING DETAILS
WD01-WD02	CURB WALL DETAILS
SS01-SS02	CHANNELIZATION / SIGNAGE PLAN
SG01-SG05	SIGNALIZATION PLANS
TC01-TC09	TRAFFIC CONTROL PLAN
PTC01-PTC02	PEDESTRIAN TRAFFIC CONTROL PLAN
TCD01-TCD02	TRAFFIC CONTROL PLAN DETAILS

Underground Service Alert
Call: TOLL FREE
811/800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

APPROVED FOR CONSTRUCTION

Desiree S. Winkler 12/4/23
Desiree S. Winkler, P.E. Date
Deputy Public Works Director

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WWW.CITYOFFEDERALWAY.COM

FEHR PEERS
1001 4th Avenue Suite 4120 Seattle, WA 98154 (206) 576-4220

DRAFTED: NH
DESIGNED: CG
REVIEWED: CG
APPROVED: CG

CHRISTOPHER A. GREICH
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 08/24/25

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

21ST AVE S AND S 320TH ST

COVER

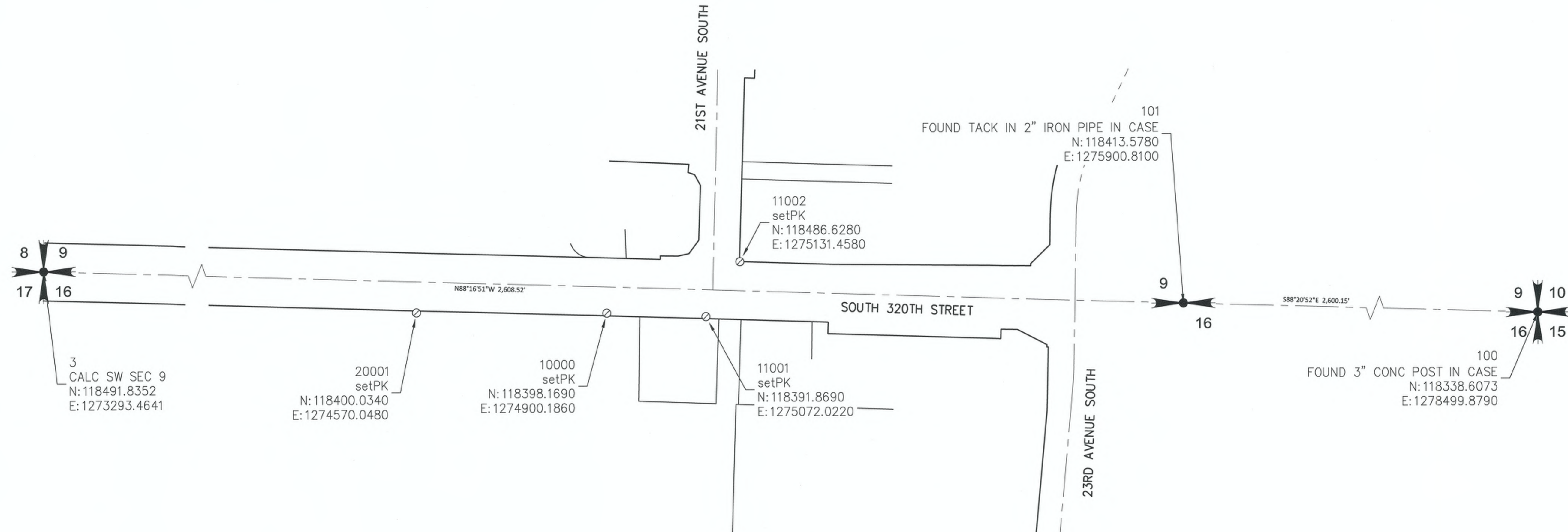
CITY PROJECT #:	36225
SHEET	CS01
1 OF 31	

NOTES

BASIS OF BEARING: NAD 83/2011 WASHINGTON COORDINATE SYSTEM AS SHOWN ON SURVEY RECORDED IN KING COUNTY RECORDS UNDER RECORDING NUMBER 2018022290014.
BASIS OF COORDINATES: COORDINATES SHOWN HEREON ARE A LOCAL DATUM PLANE.

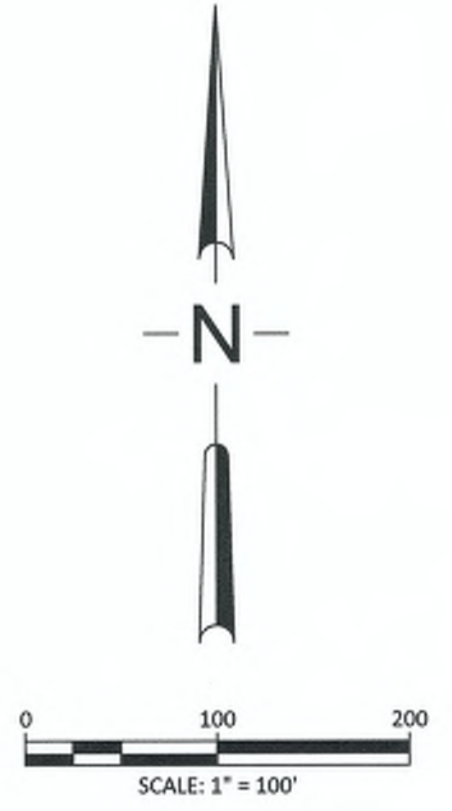
HORIZONTAL CONTROL SURVEY

SE 1/4 OF THE SW 1/4 OF SECTION 9, NE 1/4 OF THE NW 1/4 OF SECTION 16,
TOWNSHIP 21 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN
CITY OF FEDERAL WAY, KING COUNTY, WASHINGTON STATE



LEGEND:

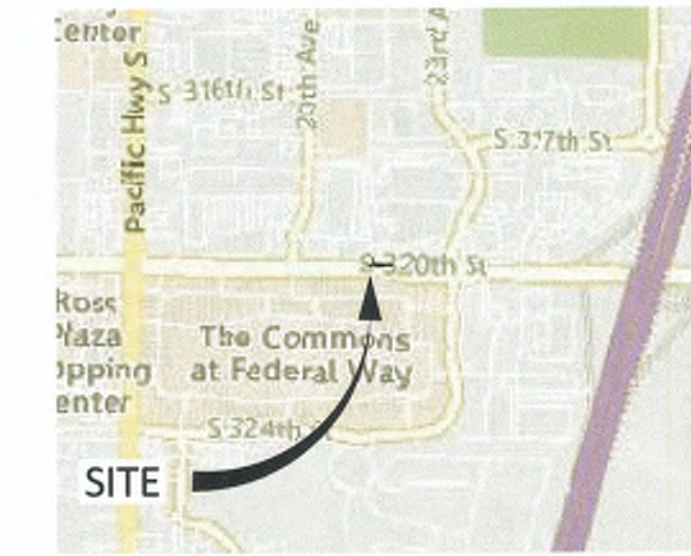
- CENTERLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- SET P/K NAIL



<p>CITY OF Federal Way Centered on Opportunity 33325 8TH AVE S FEDERAL WAY, WA 98003 PHONE: (253) 835-2700 WWW.CITYOFFEDERALWAY.COM</p>	<p>MacKay Sposito ENERGY PUBLIC WORKS LAND DEVELOPMENT www.mackaysposito.com</p>	DRAFTED:	<p>DRAWING VERSION / REVISION LOG</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 85%;">REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	REVISION																<p>21ST AVE S AND S 320TH ST</p>	CITY PROJECT #:
		NO.		DATE	REVISION																		
DESIGNED:	36225																						
REVIEWED:	SHEET																						
APPROVED:	2 OF 31																						

TOPOGRAPHIC SURVEY

SE 1/4 OF THE SW 1/4 OF SECTION 9, NE 1/4 OF THE NW 1/4 OF SECTION 16,
TOWNSHIP 21 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN
CITY OF FEDERAL WAY, KING COUNTY, WASHINGTON STATE



VICINITY MAP
NOT TO SCALE

NOTES

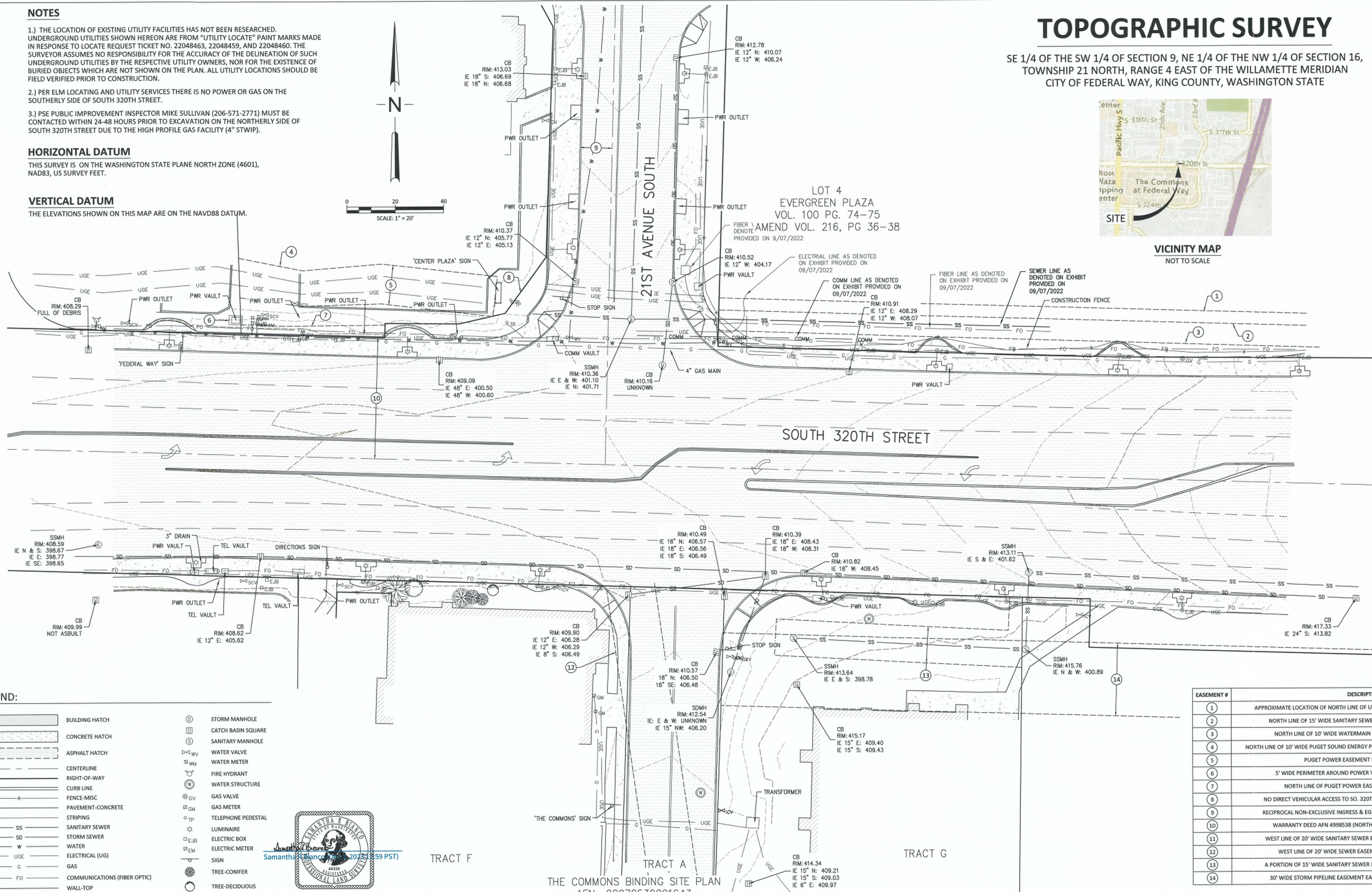
- 1.) THE LOCATION OF EXISTING UTILITY FACILITIES HAS NOT BEEN RESEARCHED. UNDERGROUND UTILITIES SHOWN HEREON ARE FROM "UTILITY LOCATE" PAINT MARKS MADE IN RESPONSE TO LOCATE REQUEST TICKET NO. 22048463, 22048459, AND 22048460. THE SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES BY THE RESPECTIVE UTILITY OWNERS, NOR FOR THE EXISTENCE OF BURIED OBJECTS WHICH ARE NOT SHOWN ON THE PLAN. ALL UTILITY LOCATIONS SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- 2.) PER ELM LOCATING AND UTILITY SERVICES THERE IS NO POWER OR GAS ON THE SOUTHERLY SIDE OF SOUTH 320TH STREET.
- 3.) PSE PUBLIC IMPROVEMENT INSPECTOR MIKE SULLIVAN (206-571-2771) MUST BE CONTACTED WITHIN 24-48 HOURS PRIOR TO EXCAVATION ON THE NORTHERLY SIDE OF SOUTH 320TH STREET DUE TO THE HIGH PROFILE GAS FACILITY (4" STWIP).

HORIZONTAL DATUM

THIS SURVEY IS ON THE WASHINGTON STATE PLANE NORTH ZONE (4601), NAD83, US SURVEY FEET.

VERTICAL DATUM

THE ELEVATIONS SHOWN ON THIS MAP ARE ON THE NAVD88 DATUM.



LEGEND:

- | | | | |
|--|------------------------------|--|--------------------|
| | BUILDING HATCH | | STORM MANHOLE |
| | CONCRETE HATCH | | CATCH BASIN SQUARE |
| | ASPHALT HATCH | | SANITARY MANHOLE |
| | CENTERLINE | | WATER VALVE |
| | RIGHT-OF-WAY | | WATER METER |
| | CURB LINE | | FIRE HYDRANT |
| | FENCE-MISC | | WATER STRUCTURE |
| | PAVEMENT-CONCRETE | | GAS VALVE |
| | STRIPING | | GAS METER |
| | SANITARY SEWER | | TELEPHONE PEDESTAL |
| | STORM SEWER | | LUMINAIRE |
| | WATER | | ELECTRIC BOX |
| | ELECTRICAL (UG) | | ELECTRIC METER |
| | GAS | | SIGN |
| | COMMUNICATIONS (FIBER OPTIC) | | TREE-CONIFER |
| | WALL-TOP | | TREE-DECIDUOUS |



EASEMENT #	DESCRIPTION
1	APPROXIMATE LOCATION OF NORTH LINE OF UTILITY EASEMENT PER KC VAC. ORD. 2813
2	NORTH LINE OF 15' WIDE SANITARY SEWER EASEMENT PER AFN 7606170594
3	NORTH LINE OF 10' WIDE WATERMAIN EASEMENT PER AFN 7606170697
4	NORTH LINE OF 10' WIDE PUGET SOUND ENERGY POWER EASEMENT PER AFN 20170428000159
5	PUGET POWER EASEMENT PER AFN 7901160705
6	5' WIDE PERIMETER AROUND POWER VAULT PER AFN 20170428000159
7	NORTH LINE OF PUGET POWER EASEMENT PER AFN 7901160705
8	NO DIRECT VEHICULAR ACCESS TO SO. 320TH STREET PER AFN KCSF NO. 1077139
9	RECIPROCAL NON-EXCLUSIVE INGRESS & EGRESS EASEMENT PER AFN 7709220881
10	WARRANTY DEED AFN 4998538 (NORTH 50' OF SO. 320TH RIGHT OF WAY)
11	WEST LINE OF 20' WIDE SANITARY SEWER EASEMENT PER AFN 20141104000382
12	WEST LINE OF 20' WIDE SEWER EASEMENT PER AFN 20141104000382
13	A PORTION OF 15' WIDE SANITARY SEWER EASEMENT PER AFN 20020411000173
14	30' WIDE STORM PIPELINE EASEMENT PER AFN 20000821000464

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REVIEWED: _____
APPROVED: _____

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21ST AVE S AND S 320TH ST

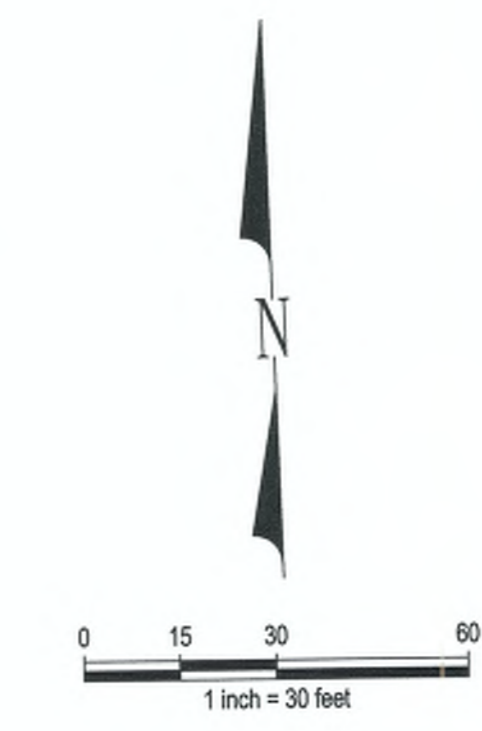
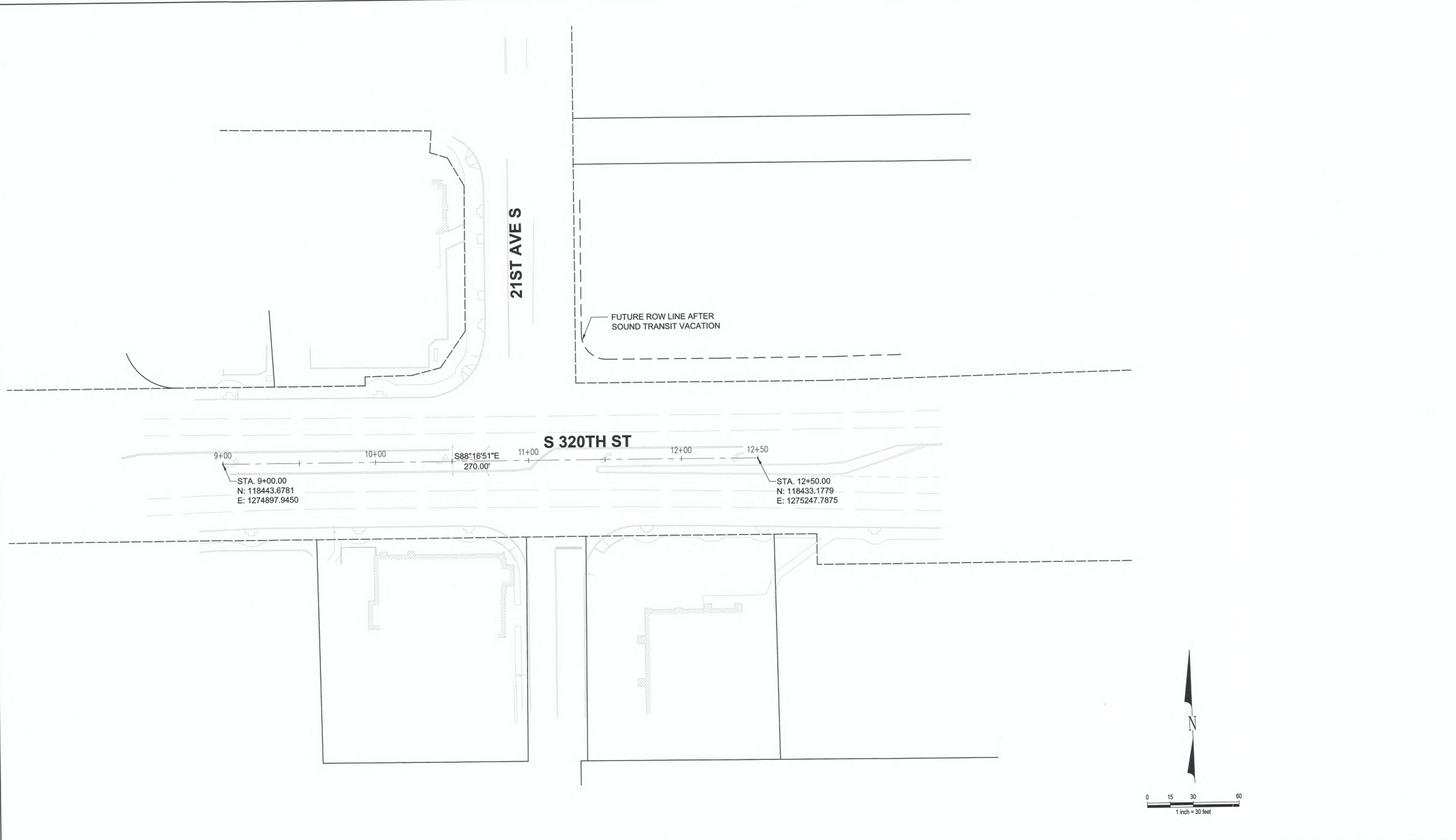
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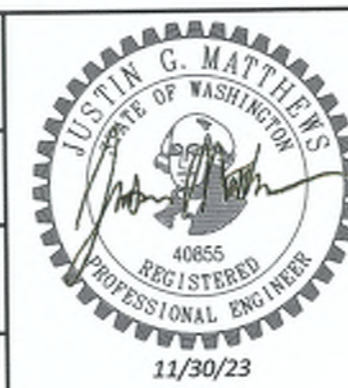
SHEET 3 OF 31

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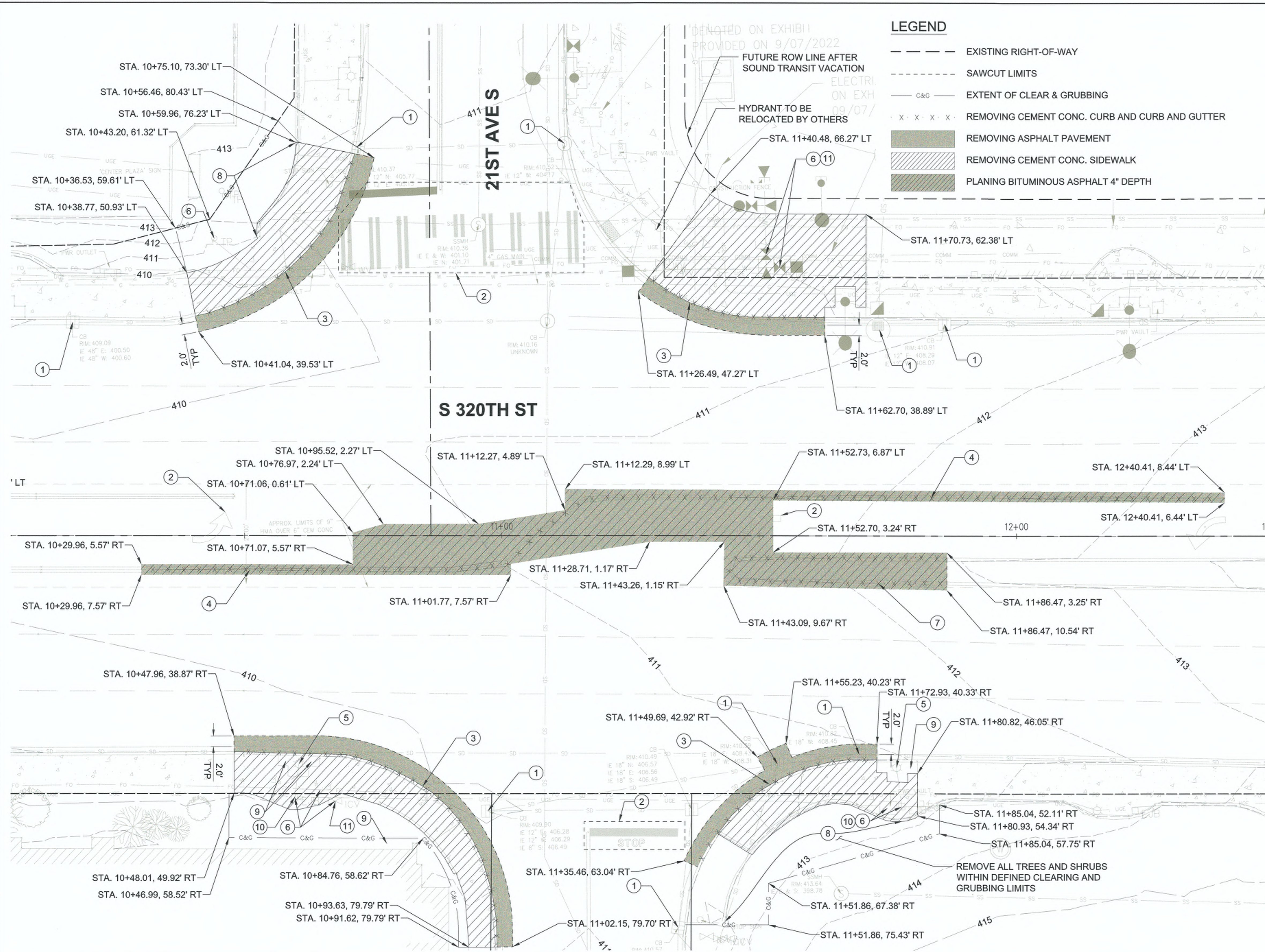
Nov 30, 2023 - 4:43pm
michalev



 CITY OF Federal Way Centered on Opportunity 33325 8TH AVE S FEDERAL WAY, WA 98003 PHONE: (253) 835-2700 WWW.CITYOFFEDERALWAY.COM	 1601 5th Avenue, Suite 1600 Seattle, WA 98101 206.622.5822 www.kpff.com	DRAFTED: MRV DESIGNED: CJO REVIEWED: TCG APPROVED: JGM		DRAWING VERSION / REVISION LOG	21ST AVE S AND S 320TH ST ALIGNMENT PLAN	CITY PROJECT #:													
				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 85%;">REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	DATE	REVISION											
NO.	DATE	REVISION																	
4 OF 31						SHEET AL01													

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 minshock
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LEGEND

- EXISTING RIGHT-OF-WAY
- - - SAWCUT LIMITS
- - - C&G EXTENT OF CLEAR & GRUBBING
- X · X · X · X · REMOVING CEMENT CONC. CURB AND CURB AND GUTTER
- [Solid Green Box] REMOVING ASPHALT PAVEMENT
- [Hatched Green Box] REMOVING CEMENT CONC. SIDEWALK
- [Hatched Brown Box] PLANING BITUMINOUS ASPHALT 4" DEPTH

- SITE PREPARATION NOTES**
- ① INLET PROTECTION, SEE WSDOT STD PLAN I-40.20
 - ② REMOVING PAVEMENT MARKINGS
 - ③ REMOVE CURB AND GUTTER
 - ④ REMOVE TYPE C TRAFFIC CURB
 - ⑤ PROTECT EXISTING LIGHT POLE AND FESTIVAL OUTLET
 - ⑥ PROTECT EXISTING UTILITY
 - ⑦ REMOVE EXTRUDED CURB
 - ⑧ REMOVE CONC. CURB WALL
 - ⑨ PROTECT TREE/SHRUB
 - ⑩ ADJUST JUNCTION BOX TO GRADE
 - ⑪ ADJUST WATER VALVE TO GRADE
 - ⑫ REMOVE STRIPING

- GENERAL NOTES**
1. PROTECT AND MAINTAIN ALL EXISTING UTILITIES UNLESS OTHERWISE NOTED.
 2. SEE SPECIAL PROVISIONS FOR LIST OF UTILITY OWNERS AND CONTACT INFORMATION.
 3. COORDINATE DIRECTLY WITH UTILITY OWNERS FOR THIRD PARTY UTILITY ADJUSTMENTS.
 4. SEE PAVEMENT MARKING PLANS FOR ADDITIONAL PAVEMENT MARKING REMOVALS.
 5. SEE PAVING PLANS FOR ADJUSTMENT FOR EX. DRAINAGE INLETS AND MANHOLES TO GRADE.
 6. SEE TRAFFIC SIGNAL PLANS FOR REMOVAL AND ADJUSTMENT OF SIGNAL RELATED STRUCTURES.
 7. ALL SIDEWALK REMOVALS SHALL BE EXPANDED TO NEAREST CONSTRUCTION JOINT.
 8. PROTECT EXISTING IRRIGATION LINES DURING REMOVAL.




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 206.622.5822
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 DESIGNED: CJO
 REVIEWED: TCG
 APPROVED: JGM



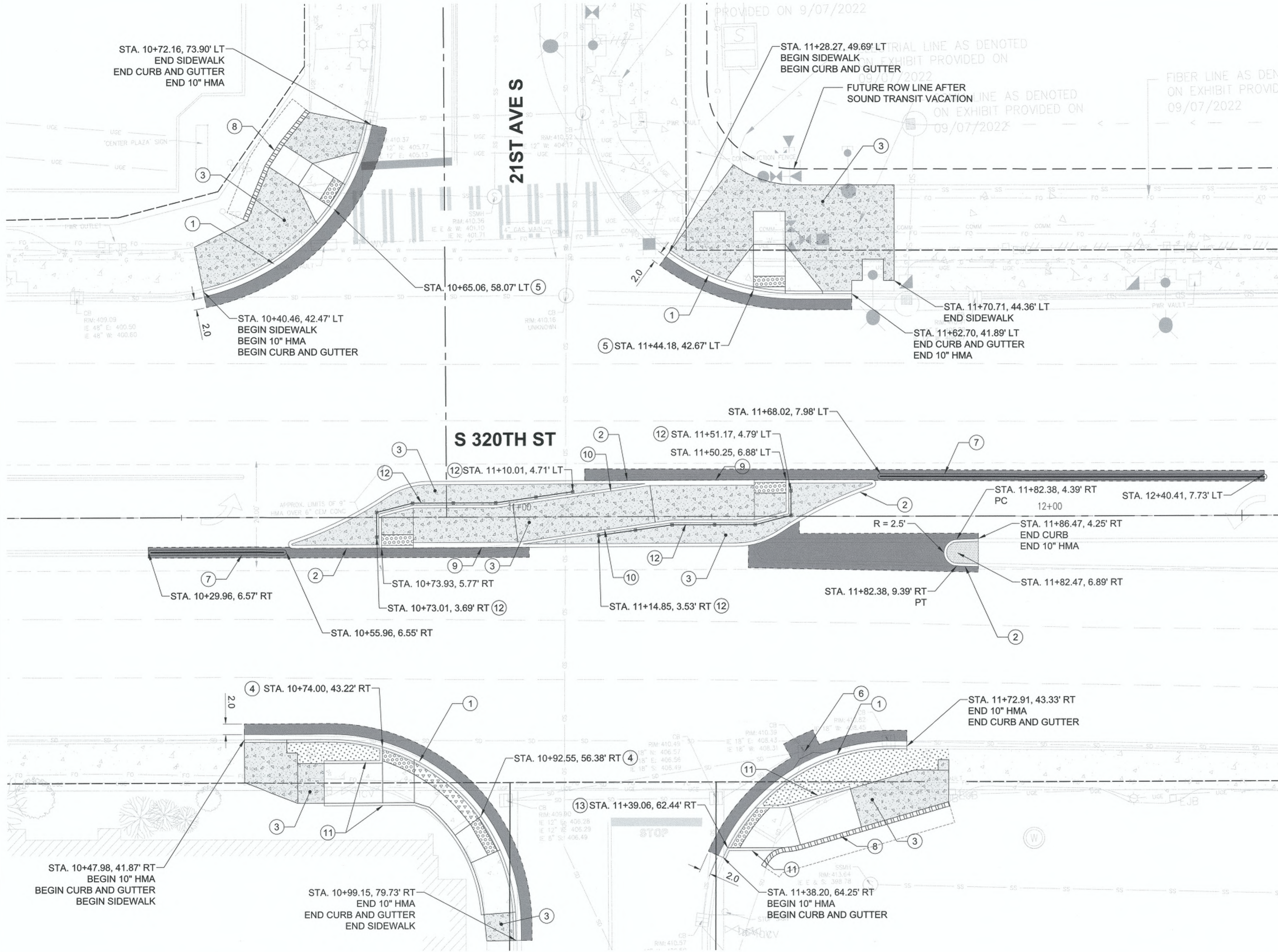
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NO.	DATE	REVISION

21ST AVE S AND S 320TH ST

SITE PREP PLAN

CITY PROJECT #: 36225
 SHEET SP01
 5 OF 31

PROVIDED ON 9/07/2022



LEGEND

- EXISTING RIGHT-OF-WAY
- ==== CURB WALL
- - - ROADWAY CENTERLINE
- ○ ○ METAL HANDRAIL PER COFW STD DWG 3-25
- - - EDGE OF WALL FOOTING
- 12" HMA 1/2", PG 58H-22 OVER 10" CSTC PER COFW STD DWG 3-02B
- 4" HMA 1/2", PG 58H-22
- CEMENT CONCRETE SIDEWALK PER COFW STD DWG 3-12
- SHRUBS AS INDICATED BY COFW, WITH 4" MULCH ON 6" AMENDED SOIL
- YELLOW DETECTABLE WARNING PER WSDOT STD PLAN F-45.10-03
- BLACK DETECTABLE WARNING PER WSDOT STD PLAN F-45.10-03
- 2" HMA 1/2", PG 58H-22 OVER 4" CSTC PER COFW STD DWG 3-58

CONSTRUCTION NOTES

- ① CEMENT CONCRETE CURB AND GUTTER REPLACEMENT PER COFW STD DWG. NO. 3-04A
- ② EXTRUDED CURB TYPE 6 PER WSDOT STD PLAN F-10.42-00
- ③ CONSTRUCT CEMENT CONCRETE SIDEWALK PER COFW STD DWG. NO. 3-12
- ④ CONSTRUCT CEMENT CONC. CURB RAMP TYPE PARALLEL NO PLANTER STRIP PER COFW STD DWG. NO. 3-08A AND SHEETS DT01-DT02.
- ⑤ CONSTRUCT CEMENT CONC. CURB RAMP TYPE PERPENDICULAR PER COFW STD DWG. NO. 3-11 AND SHEETS DT01-DT02
- ⑥ ADJUST CATCH BASIN LID TO FINISH GRADE PER COFW STD DWG. NO. 3-55
- ⑦ DUAL FACED SLOPED MOUNTABLE CURB CURB PER WSDOT STD PLAN F-10.64-03
- ⑧ CONSTRUCT CURB WALL, SEE SHEET WD01 FOR DETAIL
- ⑨ CONSTRUCT DOUBLE-WIDE CEMENT CONCRETE CURB PER DETAIL 2 ON SHEET DT03
- ⑩ CONSTRUCT CEMENT CONCRETE PEDESTRIAN CURB PER WSDOT STD PLAN F-10.12-04
- ⑪ CONSTRUCT CEMENT CONCRETE PEDESTRIAN CURB AT CURB RAMPS PER WSDOT STD PLAN F-10.12-04 AND SHEETS DT01-DT02
- ⑫ 44" BREAKAWAY CABLE PEDESTRIAN RAILING, SEE DETAIL 4, SHEET DT03
- ⑬ CONSTRUCT CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION WITH PLANTER STRIP PER COFW STD DWG. NO. 3-10A AND DT01-DT02

GENERAL NOTES

1. SEE DETAIL 1 SHEET DT03 FOR MEDIAN ISLAND LAYOUT

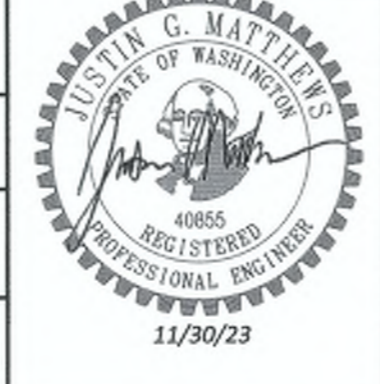


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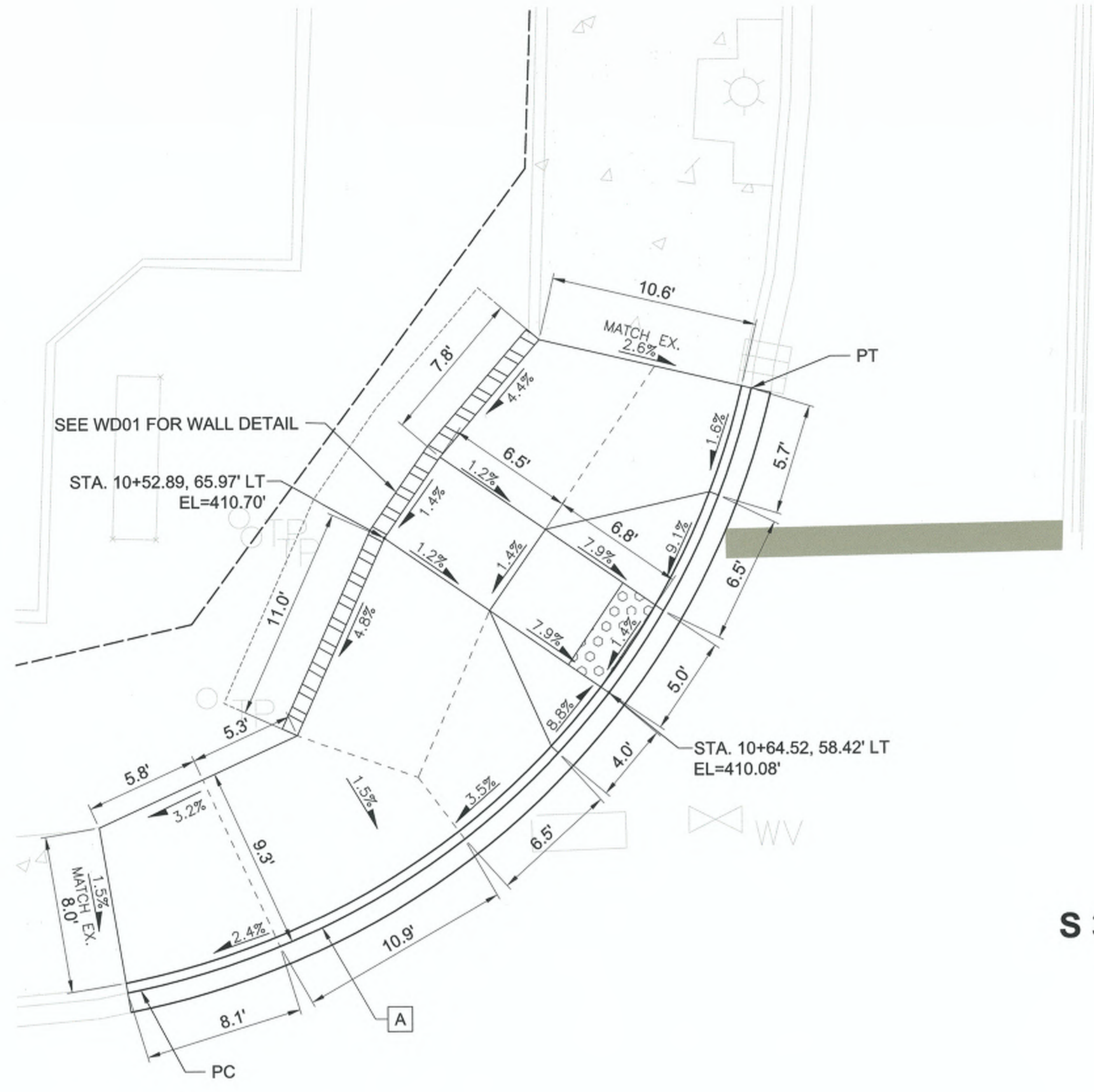
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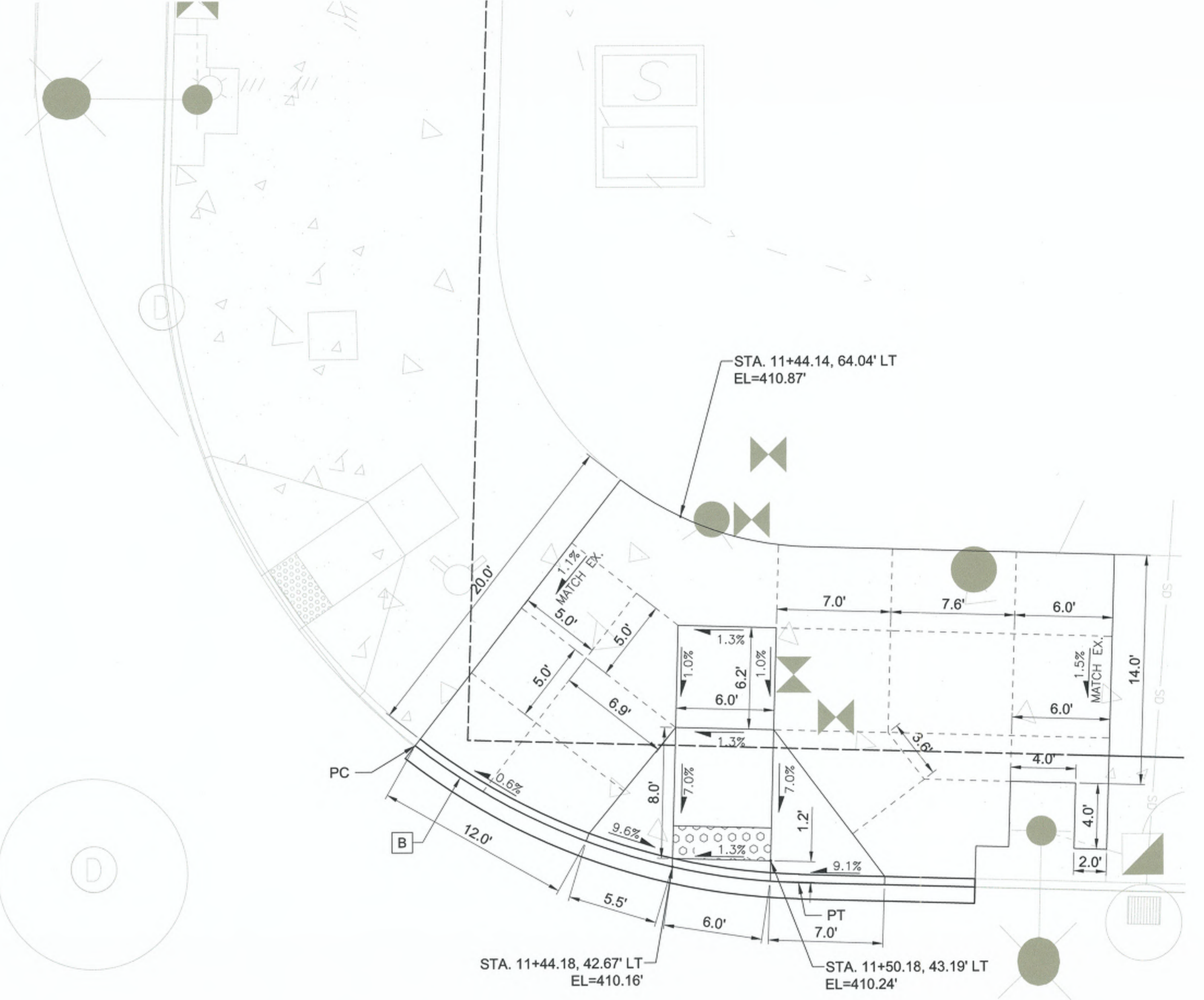
21ST AVE S AND S 320TH ST
PAVING PLAN

CITY PROJECT #:
36225
SHEET
PV01
6 OF 31



21ST AVE S

S 320TH ST



LEGEND

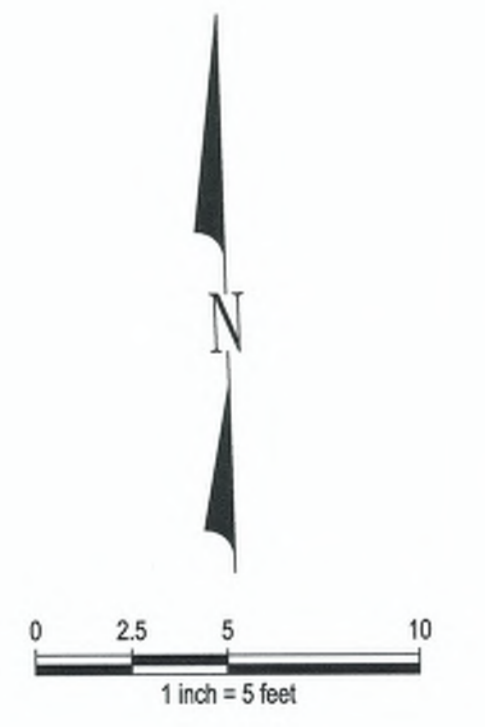
- EXISTING RIGHT-OF-WAY
- PAVEMENT JOINT
- EDGE OF WALL FOOTING
- DETECTABLE WARNING PER WSDOT STD PLAN F-45.10-03

GENERAL NOTES

1. SEE SHEET PV01 FOR ROADWAY PAVING LIMITS
2. CURB HEIGHT IS 6"
3. SEE WD01 FOR WALL ALIGNMENT HORIZONTAL CONTROL

CURVE A (NW CORNER)			
RADIUS	DELTA	TANGENT	LENGTH
40.50'	N65°06'20.72"W	25.85'	46.02'
STATION/OFFSET		BC ELEV	
PC	10+40.46, 42.47' LT	409.19	
1/4	10+51.75, 46.93' LT	409.55	
1/2	10+60.80, 53.97' LT	409.90	
3/4	10+67.52, 63.26' LT	410.16	
PT	10+71.37, 74.06' LT	410.33	

CURVE B (NE CORNER)			
RADIUS	DELTA	TANGENT	LENGTH
40.00'	N36°15'17.18"W	13.10'	25.32'
STATION/OFFSET		BC ELEV	
PC	10+40.46, 42.47' LT	410.00	
1/4	10+53.39, 47.48' LT	410.01	
1/2	10+63.88, 56.56' LT	410.19	
3/4	10+70.69, 68.65' LT	410.14	
PT	10+73.02, 82.32' LT	410.24	



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21ST AVE S AND S 320TH ST

GRADING DETAILS

CITY PROJECT #:
36225

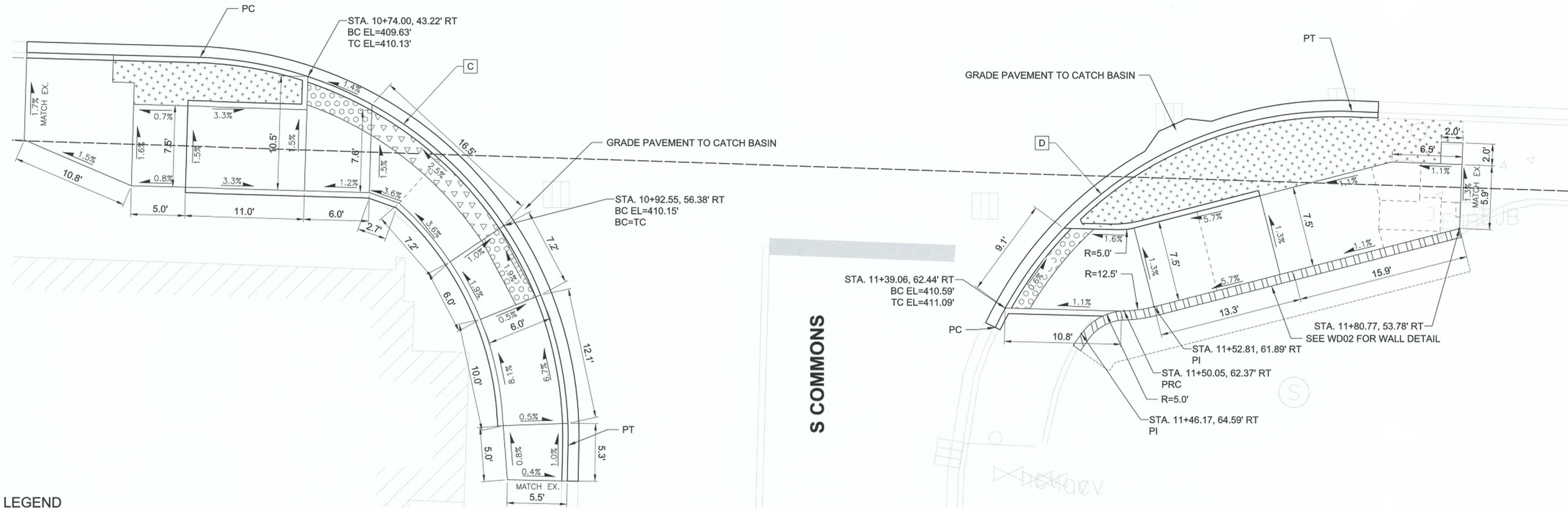
SHEET
DT01

7 OF 31

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michaelv

S 320TH ST



LEGEND

- EXISTING RIGHT-OF-WAY
- PAVEMENT JOINT
- EDGE OF WALL FOOTING
- DETECTABLE WARNING PER WSDOT STD PLAN F-45.10-03
- BLACK DETECTABLE WARNING PER WSDOT STD PLAN F-45.10-03
- LANDSCAPING

GENERAL NOTES

1. SEE SHEET PV01 FOR ROADWAY PAVING LIMITS
2. CURB HEIGHT IS 6"
3. SEE WD02 FOR WALL ALIGNMENT HORIZONTAL CONTROL

CURVE C (SW CORNER)			
RADIUS	DELTA	TANGENT	LENGTH
35.00'	N89°39'39.65"W	34.79'	54.77'
STATION/OFFSET		BC ELEV	
PC	10+63.98, 41.80' RT	409.51	
1/4	10+77.33, 44.39' RT	409.69	
1/2	10+88.69, 51.87' RT	410.00	
3/4	10+96.34, 63.13' RT	410.30	
PT	10+99.12, 76.45' RT	410.66	

CURVE D (SE CORNER)			
RADIUS	DELTA	TANGENT	LENGTH
35.00'	N66°40'19.27"W	26.75'	40.73'
STATION/OFFSET		BC ELEV	
PC	11+38.20, 64.25' RT	410.58	
1/4	11+43.98, 55.19' RT	410.54	
1/2	11+52.24, 48.31' RT	410.43	
3/4	11+62.19, 44.26' RT	410.62	
PT	11+70.48, 43.32' RT	410.82	



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Nov 30, 2023 - 4:44pm michelb

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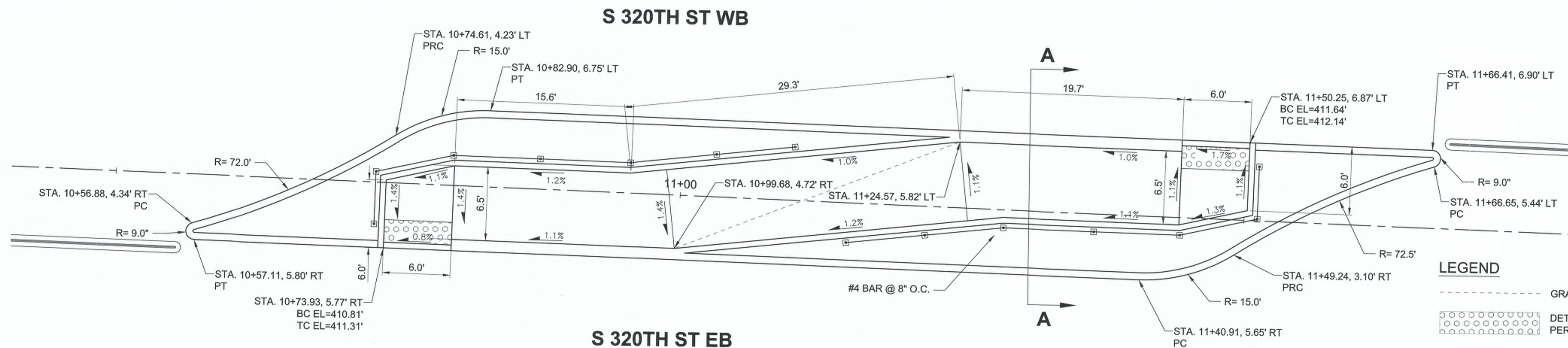
21ST AVE S AND S 320TH ST

GRADING DETAILS

CITY PROJECT #:
36225

SHEET
DT02

8 OF 31

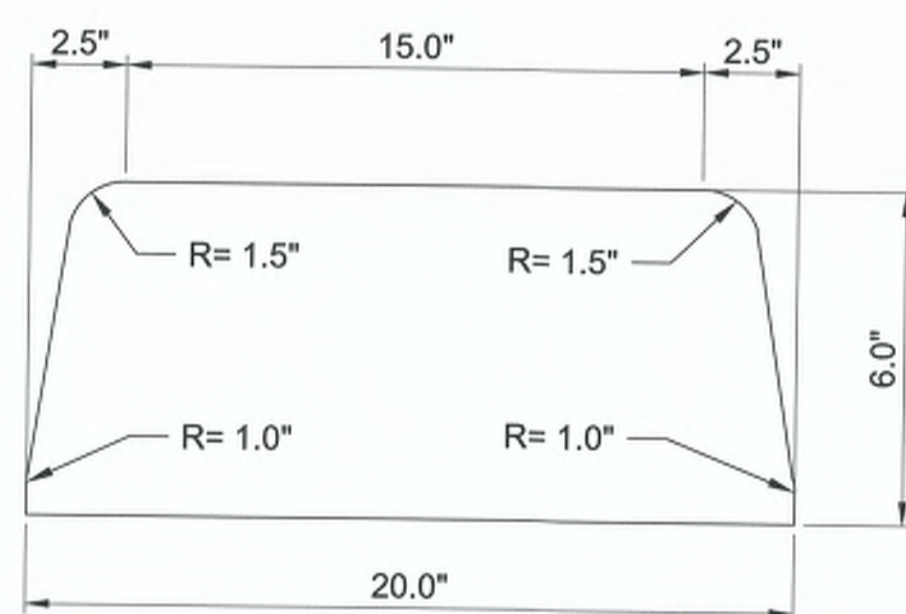


MEDIAN ISLAND
SCALE: 1" = 5.0'

1
PV01

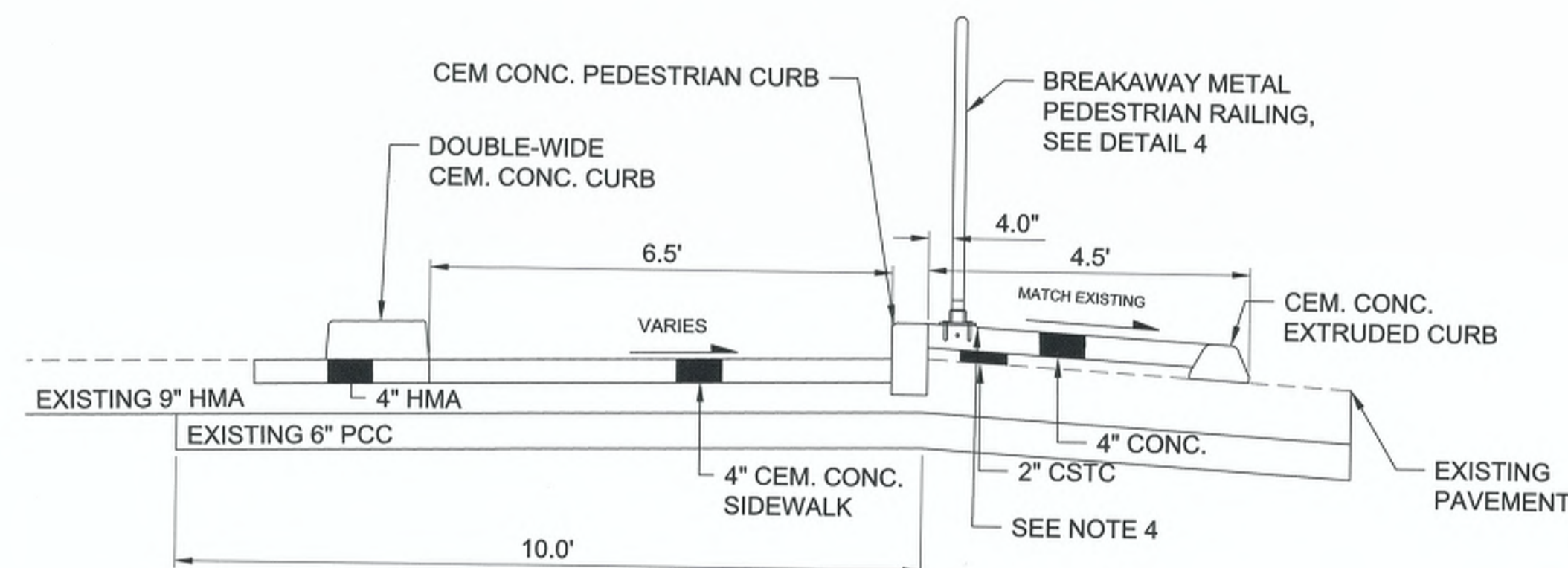
GENERAL NOTES

- SEE SHEET PV01 FOR ROADWAY PAVING LIMITS
- BASE CONNECTION SHALL BE IN COMPLIANCE WITH NCHRP 350 CRASH TEST CRITERIA
- DO NOT TIGHTEN ANY SLIP PLATE BOLT TO THE RECOMMENDED TORQUE BEFORE PRETIGHTENING OTHER BOLTS. PROGRESSIVELY TIGHTEN BOLTS IN 10 FT-LBS INCREMENTS, TO A FINAL TORQUE OF 38 FT-LBS FOR EACH BOLT
- GROUT PAD FOR BOLTED BASE



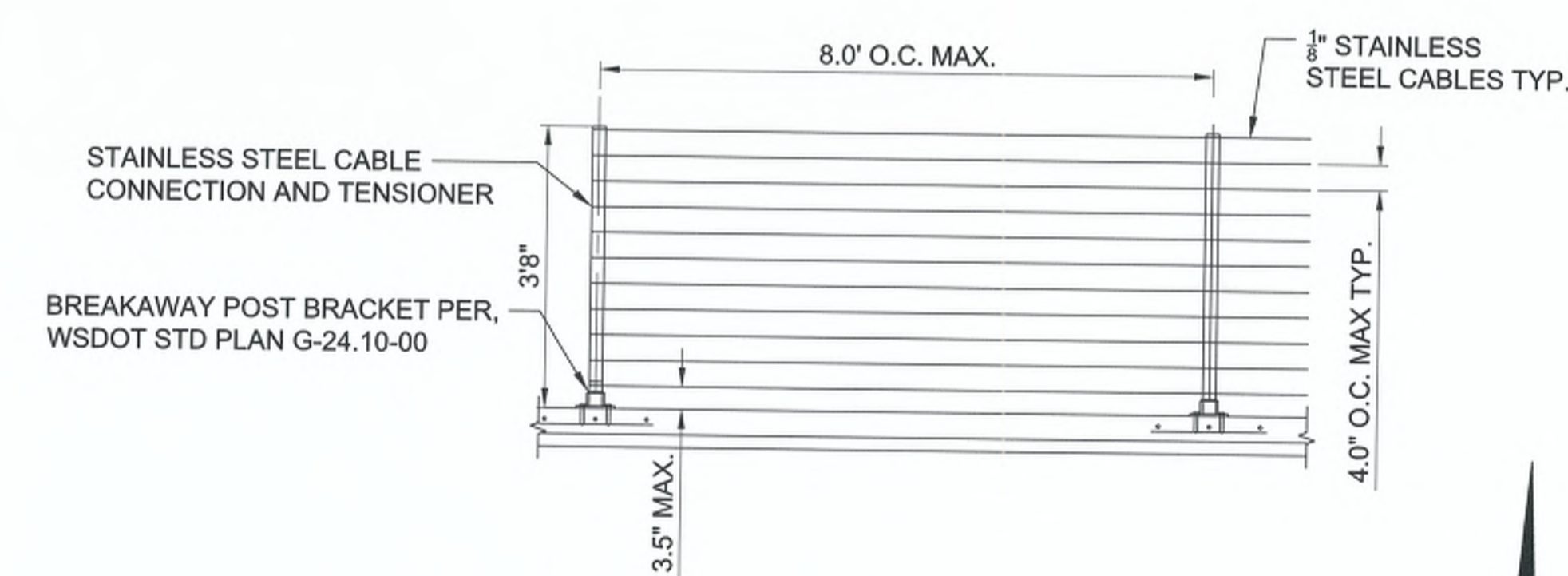
DOUBLE WIDE CEMENT CONCRETE CURB
SCALE: NTS

2
PV01



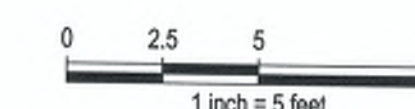
SECTION A-A
SCALE: NTS

3
-



**44" BREAKAWAY CABLE
PEDESTRIAN RAILING**
SCALE: NTS

4
-



CITY OF Federal Way
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kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

DRAFTED: MRV
DESIGNED: CJO
REVIEWED: TCG
APPROVED: JGM



DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

21ST AVE S AND S 320TH ST

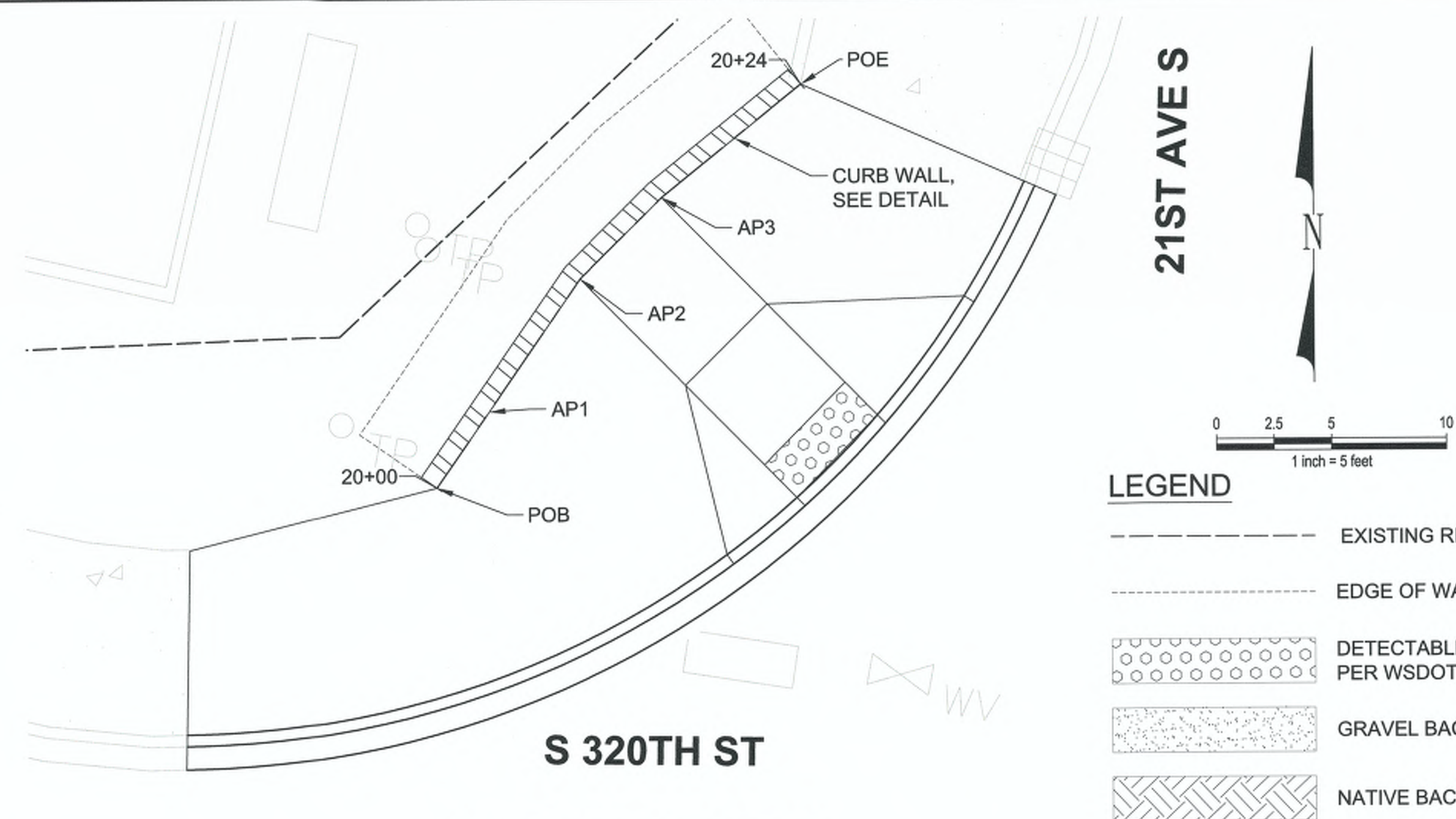
GRADING DETAILS

CITY PROJECT #:
36225

SHEET
DT03

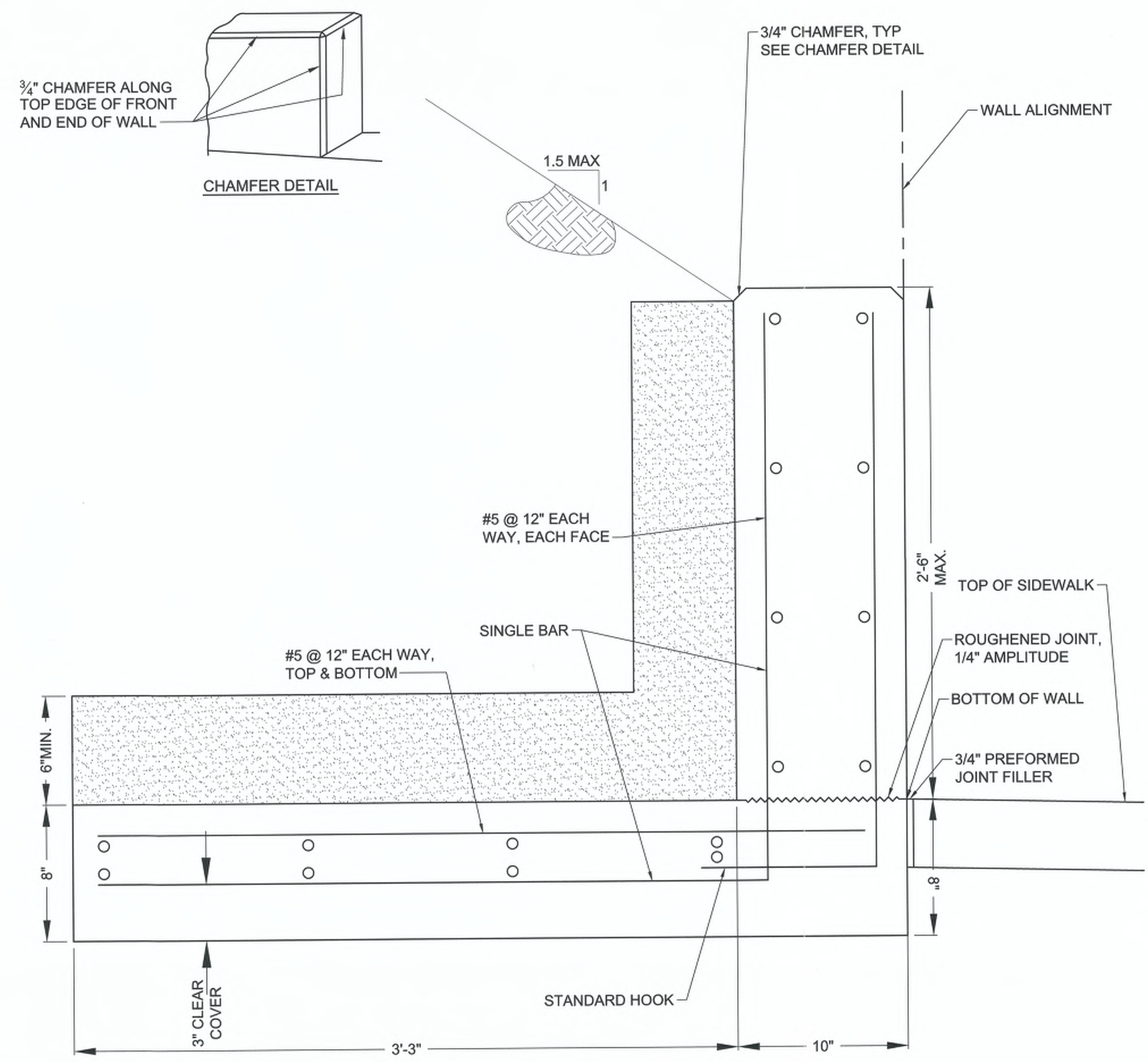
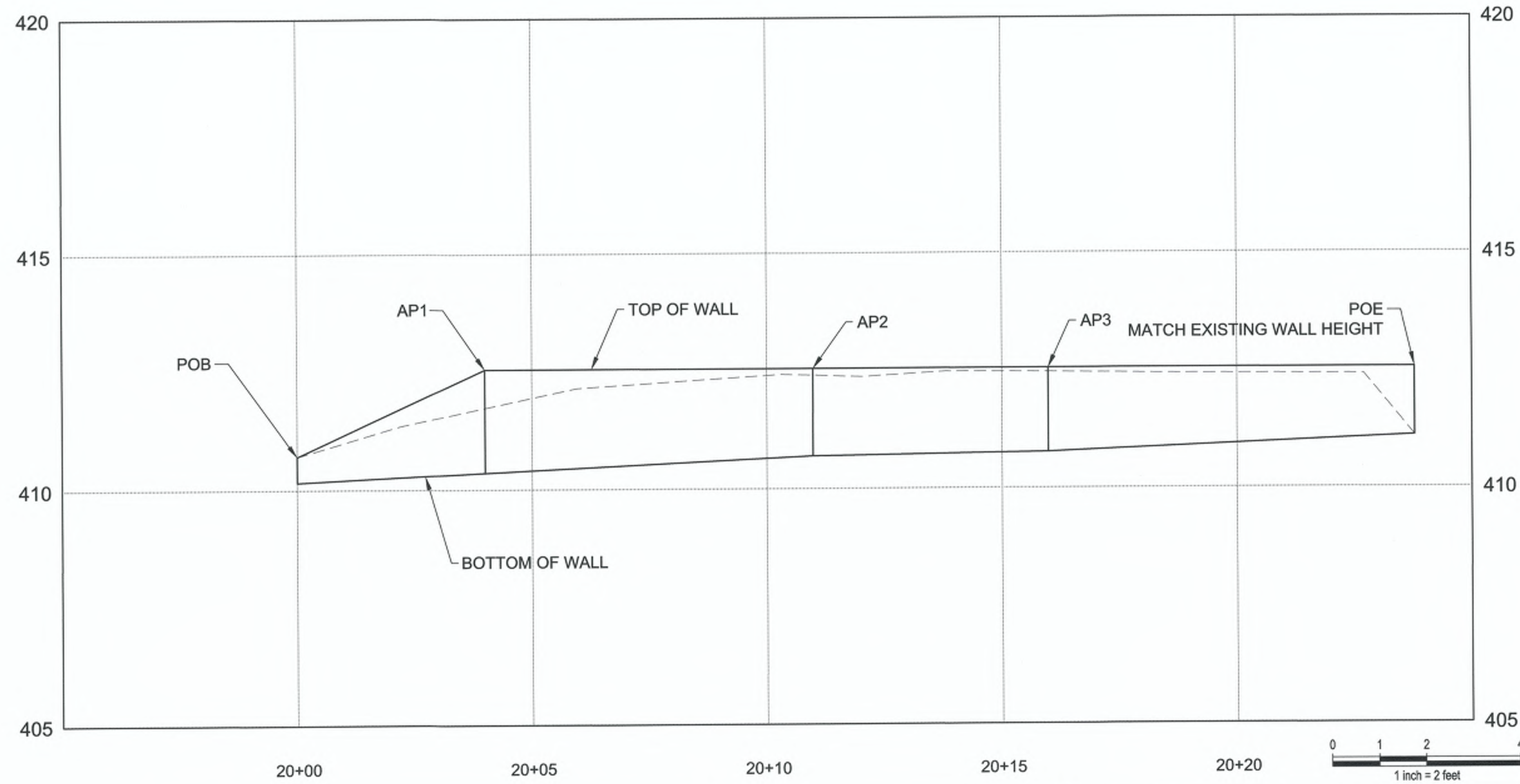
9 OF 31

*** PLAN CENTER COPY *** Official bid documents, plan holder's list, and addenda (if applicable) are available on BxWA.com



CURB WALL TABLE

POINT	S320 STA	WALL STA	BOT EL	TOP EL
POB	10+48.72, 55.81' LT	20+00.00	410.17	410.72
AP1	10+50.24, 59.51' LT	20+04.00	410.36	412.56
AP2	10+52.89, 65.97' LT	20+10.98	410.70	412.56
AP3	10+55.62, 70.16' LT	20+15.98	410.77	412.56
POE	10+60.51, 76.24' LT	20+23.78	411.11	412.56/ EXISTING WALL EL



NOTES:

1. CONCRETE SHALL COMPLY WITH WSDOT CLASS 4000 CONCRETE.
2. REINFORCING STEEL SHALL COMPLY WITH ASTM A4706, GRADE 60.
3. PROVIDE 1 1/2" CLEAR COVER UNLESS NOTED OTHERWISE.
4. PROVIDE MINIMUM 6" THICKNESS GRAVEL BACKFILL FOR WALLS BETWEEN WALL AND RETAINED SOIL

**CURB WALL DETAIL
N.T.S.**

Nov 30, 2023 - 4:46pm
 michaels
 Z:\100001-2109999\2100738 S 320th St & 21st Ave Signal Upgrade\CAD\Sheet\320-10.dwg

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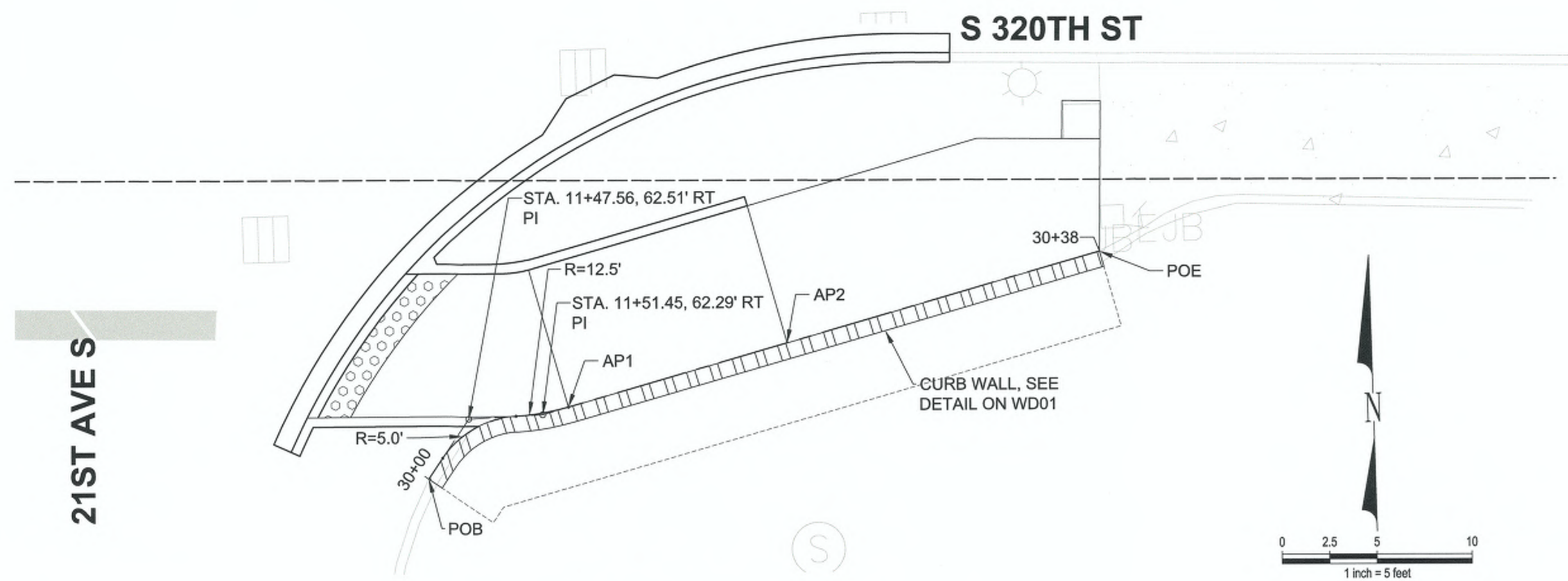
DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

21ST AVE S AND S 320TH ST
CURB WALL DETAILS

CITY PROJECT #:	36225
SHEET	WD01
	10 OF 31

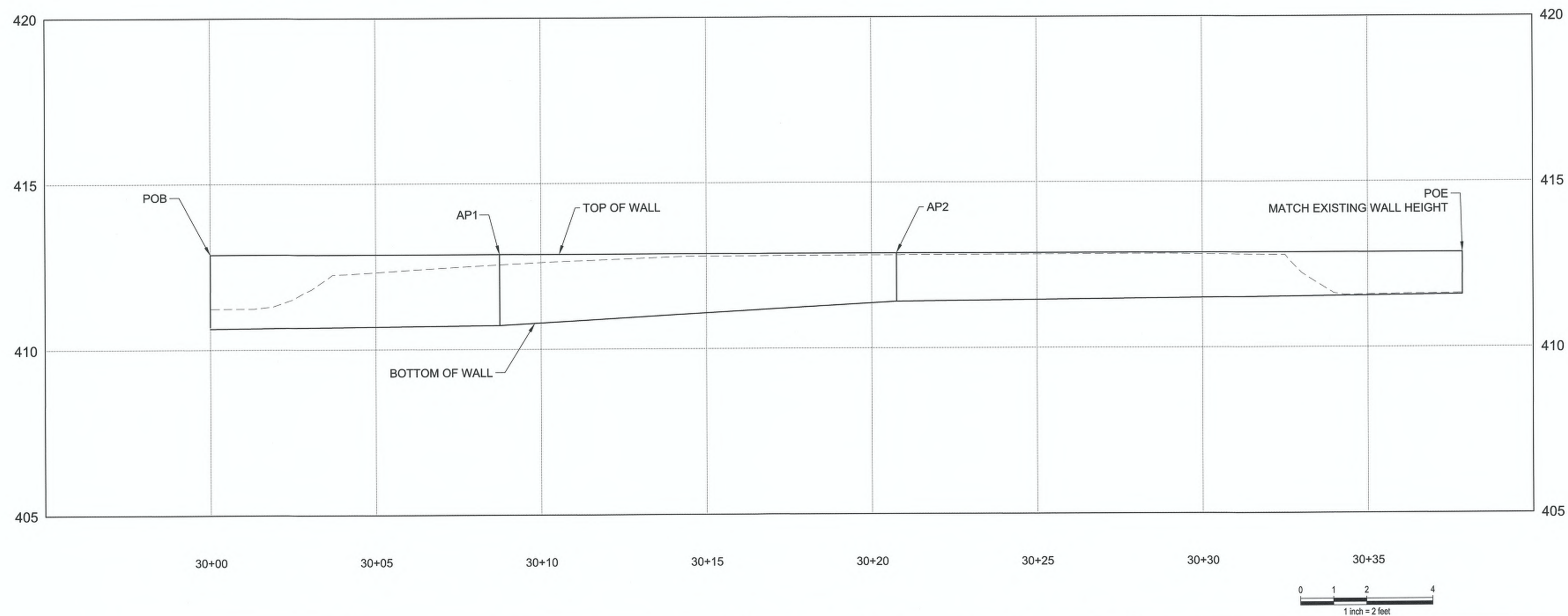
LEGEND

- EXISTING RIGHT-OF-WAY
- EDGE OF WALL FOOTING
-  DETECTABLE WARNING
PER WSDOT STD PLAN F-45.10-03



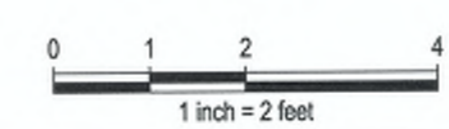
CURB WALL TABLE




POINT	S320 STA	WALL STA	BOT EL	TOP EL
POB	11+45.44, 65.68' RT	30+00.00	410.64	412.87
AP1	11+52.81, 61.89' RT	30+08.75	410.73	412.87
AP2	11+64.33, 58.55' RT	30+20.75	411.41	412.87
POE	11+80.77, 53.78' RT	30+37.87	411.59	412.87/ EXISTING WALL EL



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Nov 30, 2023 - 4:44pm michoelv



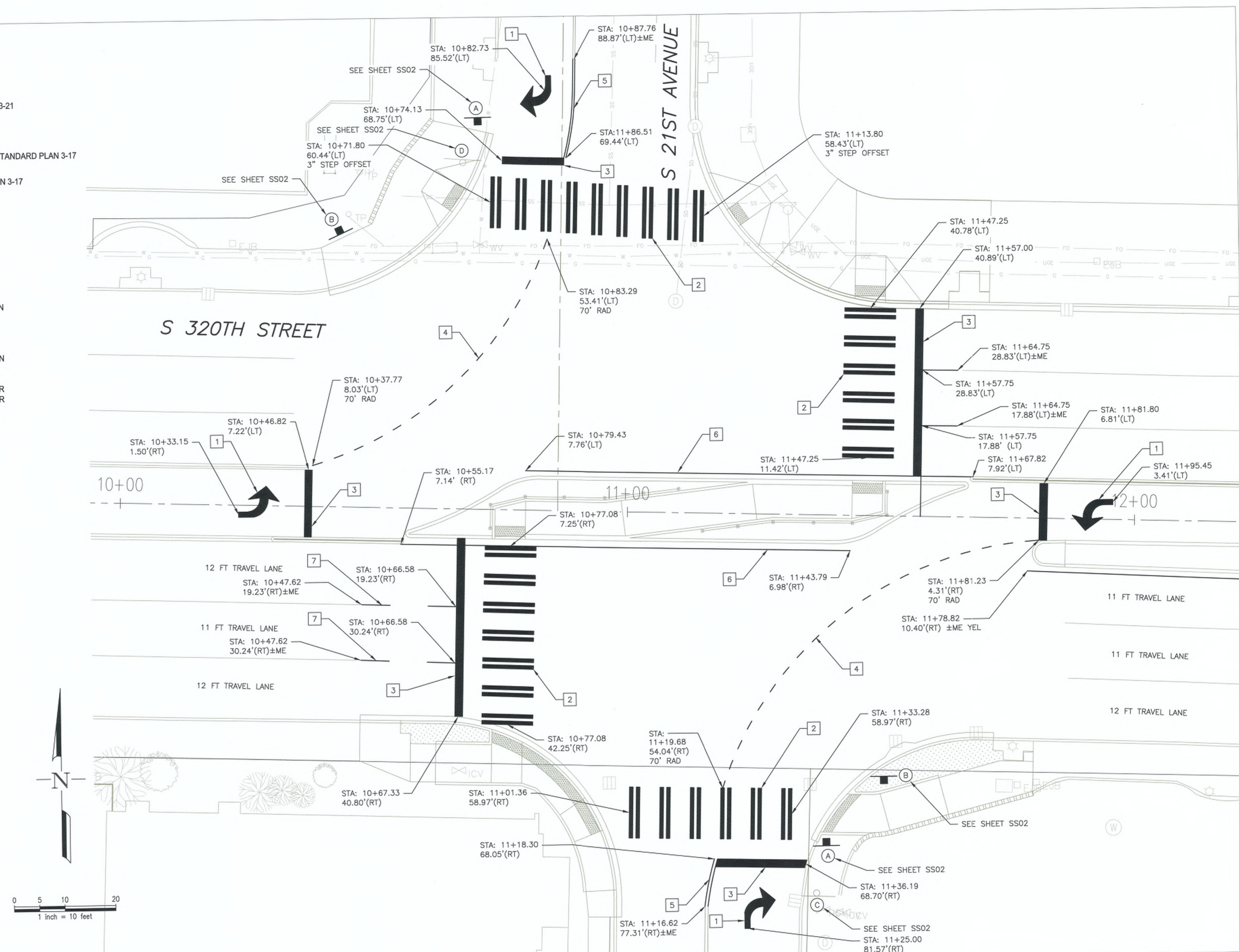
 CITY OF Federal Way <i>Centered on Opportunity</i> 33325 8TH AVE S FEDERAL WAY, WA 98003 PHONE: (253) 835-2700 WWW.CITYOFFEDERALWAY.COM	 1601 5th Avenue, Suite 1600 Seattle, WA 98101 206.622.5822 www.kpff.com	DRAFTED: MRV DESIGNED: CJO REVIEWED: TCG APPROVED: JGM	 JUSTIN G. MATTHEWS 48955 REGISTERED PROFESSIONAL ENGINEER 11/30/23	DRAWING VERSION / REVISION LOG <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	REVISION																21ST AVE S AND S 320TH ST CURB WALL DETAILS	CITY PROJECT #: 36225 SHEET WD02 11 OF 31
				NO.	DATE	REVISION																		
				*** PLAN CENTER COPY *** Official bid documents, plan holder's list, and addenda (if applicable) are available on B2WA.com																				

STRIPING NOTES

- 1 TYPE 2SL TRAFFIC ARROW, PLASTIC TYPE A, PER WSDOT STANDARD PLAN M-24.20-02
- 2 WHITE CROSSWALK BARS, PLASTIC TYPE A, PER CITY OF FEDERAL WAY STANDARD PLAN 3-21
- 3 18" WHITE STOP BAR, PLASTIC TYPE A, PER CITY OF FEDERAL WAY STANDARD PLAN 3-21
- 4 YELLOW DOTTED EXTENSION LINE (WDEL), PLASTIC TYPE A, PER CITY OF FEDERAL WAY STANDARD PLAN 3-17
- 5 DOUBLE YELLOW CENTER LINE (DYCL), PAINT, PER CITY OF FEDERAL WAY STANDARD PLAN 3-17
- 6 YELLOW EDGE LINE (YEL), PAINT, PER CITY OF FEDERAL WAY STANDARD PLAN 3-17
- 7 LANE LINE (LL), PAINT, PER CITY OF FEDERAL WAY STANDARD PLAN 3-18

GENERAL NOTES:

- 1. LONGITUDINAL STRIPING SHALL BE PAINT. TRANSVERSE MARKINGS AND DOTTED EXTENSION LINE SHALL BE PLASTIC TYPE A.
- 2. ALL RPM'S SHALL BE LOCATED TO PROVIDE 4 INCHES BETWEEN STRIPING AND RPM'S.
- 3. TRAFFIC ARROWS TYPE 1S, 2SL, 2SR, 3SL, 3SR, 4S, AND 5S - SEE WSDOT STANDARD PLAN M - 24.40.
- 4. REMOVE AND SALVAGE ALL EXISTING TRAFFIC AND PARKING SIGNS INAPPLICABLE AND/ OR IN CONFLICT WITH PLANS AND RETURN TO KING COUNTY SIGN SHOP (RENTON) FOR RETAINAGE.



21ST AVE S AND S 320TH ST
CHANNELIZATION / SIGNAGE PLAN

CITY PROJECT #:	36225
SHEET	SS01
	12 OF 31

CITY OF Federal Way
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FEHR PEERS
1001 4th Avenue Seattle, WA 98154
Suite 4120 (206) 576-4220

DRAFTED:	NH
DESIGNED:	CG
REVIEWED:	CG
APPROVED:	CG

DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

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SIGNING NOTES

SEE CITY OF FEDERAL WAY STANDARD PLANS: 3-50, 3-51, AND 3-52 FOR SIGN INSTALLATION, POST, AND BASE DETAILS.

GENERAL NOTES:

1. ALL SIGNAGE SHALL COMPLY WITH MUTCD 2009 STANDARDS.
2. ALL SIGN DIMENSIONS SHALL BE VERIFIED WITH THE ENGINEER AND MANUFACTURER PRIOR TO FABRICATION.

SIGN SCHEDULE		
SIGN ID.	STATION	COMMENTS
A	11+40.30, 64.39' RT	
A	10+69.20, 76.42' LT	
B	11+51.12, 52.07' RT	
B	10+42.26, 54.35 LT	SIGN FACE ROTATED TOWARD STA: 10+75
C	EXISTING	REMOVE EXISTING POST AND FOUNDATION INCLUDING STOP AND RIGHT TURN ONLY SIGNS AT TIME OF SIGNAL TURN ON.
D	EXISTING	TEMPORARILY RELOCATE EXISTING POST AND FOUNDATION INCLUDING STOP, NO LEFT TURN, AND STREET NAME SIGNS OUTSIDE OF SIDEWALK REPLACEMENT AREA. COMPLETELY REMOVE AT TIME OF SIGNAL TURN ON.



R3-5R
24"X30"
A



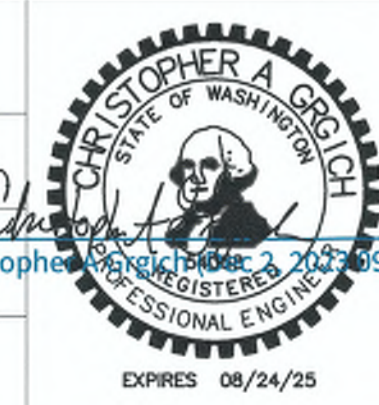
R9-3A
24"X24"
B

BLACK (NON-REFL)
RED (REFL)
WHITE (REFL)

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FEHR PEERS
1001 4th Avenue Suite 4120 Seattle, WA 98154 (206) 576-4220

DRAFTED: NH
DESIGNED: CG
REVIEWED: CG
APPROVED: CG



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21ST AVE S AND S 320TH ST
CHANNELIZATION / SIGNAGE PLAN

CITY PROJECT #:
36225
SHEET
SS02
13 OF 31

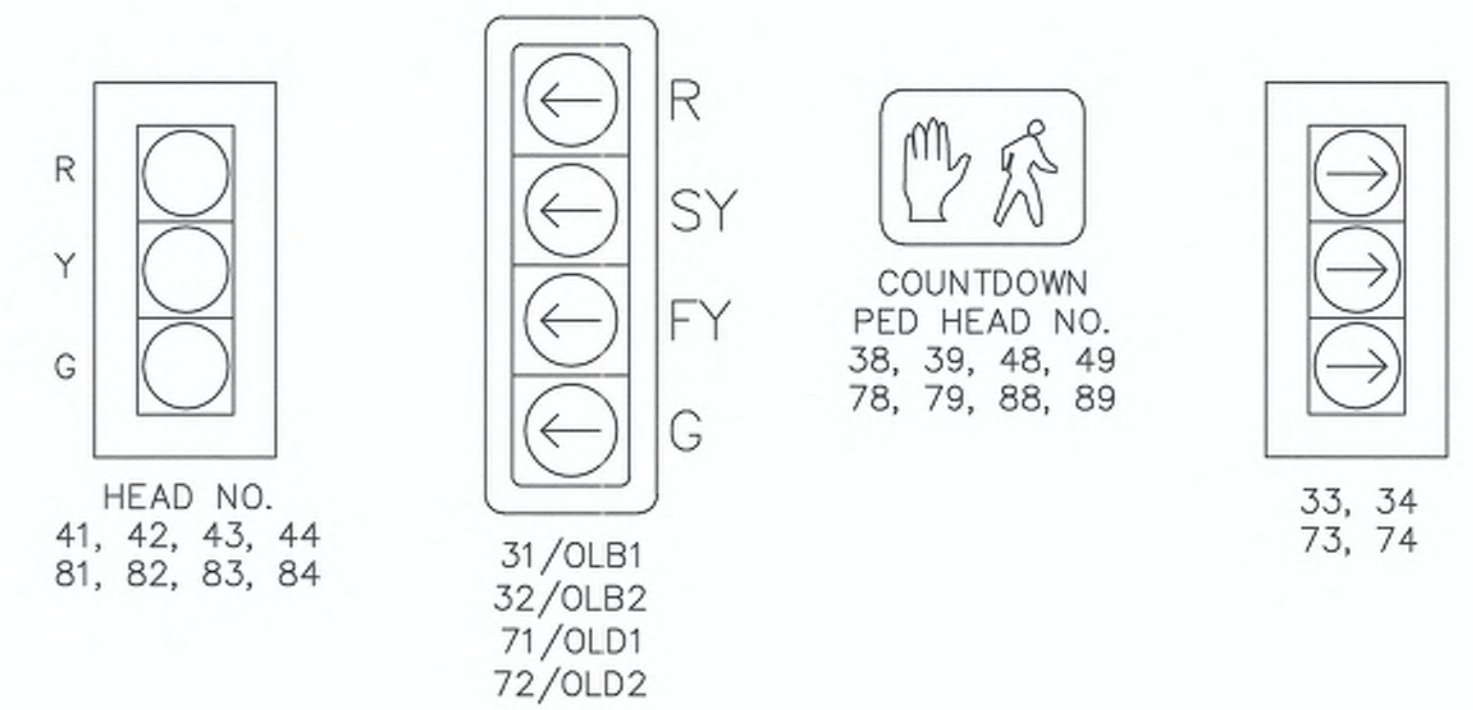
CONSTRUCTION NOTES (FOR SHEET SG-2)

- 1 PROVIDE AND INSTALL TYPE III SIGNAL POLE WITH 60FT MAST ARM, FOUNDATION, TERMINAL CABINET, SIGNAL HEADS WITH BACKPLATES, PREEMPT DETECTOR, PEDESTRIAN HEAD, STREET SIGN, VIDEO DETECTION AND A 16FT LUMINAIRE ARM ROTATED AT 90 DEGREES AS SHOWN ON SHEET SG-2.
- 2 PROVIDE AND INSTALL TYPE PPB POST WITH PEDESTRIAN PUSHBUTTON IN ACCORDANCE WITH WSDOT STANDARD PLAN J-20.10. (2 LOCATIONS)
- 3 PROVIDE AND INSTALL TYPE III SIGNAL POLE WITH 25FT MAST ARM, FOUNDATION, TERMINAL CABINET, SIGNAL HEADS WITH BACKPLATES, PREEMPT DETECTOR, PEDESTRIAN HEAD, STREET SIGN, AND A 16FT LUMINAIRE ARM ROTATED AT 90 DEGREES AS SHOWN ON SHEET SG-2.
- 4 PROVIDE AND INSTALL COMBINED SERVICE, SIGNAL AND UPS/ BBS FOUNDATION WITH ELECTRICAL SERVICE CABINET, CONTROLLER CABINET, AND UPS/BBS CABINET IN ACCORDANCE WITH COFW STANDARD DRAWINGS. NO. 3-45, 3-45A, 3-45B, 3-45C IN THE APPROXIMATE LOCATION SHOWN. AVOID PLACING FOUNDATION BEHIND STREET LIGHT PLANTER CUT OUT ADJACENT TO CURB. ENSURE 4 FT OF CLEARANCE BETWEEN THE ROW AND BASE OF THE CABINET PEDESTALS, SEE "DETAIL A" ON SHEET SG-3.
- 5 PROVIDE TYPE PS POST WITH PEDESTRIAN PUSHBUTTON AND HEAD WITH TYPE D MOUNT IN ACCORDANCE WITH WITH WSDOT STANDARD PLAN J-20.16. INSTALL ASSEMBLY ON CURB BASE IN ACCORDANCE WITH WSDOT STANDARD PLAN J-20.11. (2 LOCATIONS)
- 6 PROVIDE AND INSTALL TYPE III SIGNAL POLE WITH 20FT MAST ARM, FOUNDATION, TERMINAL CABINET, SIGNAL HEADS WITH BACKPLATES, PREEMPT DETECTOR, PEDESTRIAN HEAD, STREET SIGN, AND A 16FT LUMINAIRE ARM ROTATED AT 90 DEGREES AS SHOWN ON SHEET SG-2.
- 7 PROVIDE AND INSTALL TYPE PPB POST WITH PEDESTRIAN PUSHBUTTON ON CURB BASE IN ACCORDANCE WITH WSDOT STANDARD PLAN J-20.11. (3 LOCATIONS)
- 8 PROVIDE AND INSTALL TYPE III SIGNAL POLE WITH 50FT MAST ARM, FOUNDATION, TERMINAL CABINET, SIGNAL HEADS WITH BACKPLATES, PREEMPT DETECTOR, PEDESTRIAN HEAD, STREET SIGN, VIDEO DETECTION AND A 16FT LUMINAIRE ARM ROTATED AT 90 DEGREES AS SHOWN ON SHEET SG-2.
- 9 INSTALL TYPE 2 JUNCTION BOX IN ACCORDANCE WITH WSDOT STANDARD PLAN J-40.10 IN APPROXIMATE LOCATION SHOWN (3 BOXES TOTAL). SYSTEM IDENTIFICATION LETTERS SHALL BE "TS".
- 10 INSTALL TYPE 8 JUNCTION BOX IN ACCORDANCE WITH WSDOT STANDARD PLAN J-40.30 IN APPROXIMATE LOCATION SHOWN (6 BOXES TOTAL). SYSTEM IDENTIFICATION LETTERS SHALL BE "TS".
- 11 EXISTING CITY-OWNED FIBER OPTIC CABLE AND CONDUIT. MAINTAIN AND PROTECT DURING CONSTRUCTION OPERATIONS.
- 12 COIL AN ADDITIONAL 50 FEET OF CONDUCTOR IN THIS JUNCTION BOX (2 LOCATIONS).
- 13 PROVIDE AND INSTALL TYPE PPB POST WITH PEDESTRIAN PUSHBUTTON ON BASE IN ACCORDANCE WITH WSDOT STANDARD PLAN J-20.10. VERIFY LOCATION OF WATER AND FIBER OPTIC LINES.
- 14 INSTALL SMALL CABLE VAULT IN ACCORDANCE WITH WSDOT STANDARD PLAN J-90.21 IN APPROXIMATE LOCATION SHOWN. SPLICE EXISTING FIBER WITH NEW 2-24 STRAND CABLE AND COIL 100 FEET OF CABLE.
- 15 INSTALL PULL BOX IN ACCORDANCE WITH WSDOT STANDARD PLAN J-90.10 IN APPROXIMATE LOCATION SHOWN. COIL 100 FEET OF CABLE (2 LOCATIONS).
- 16 REMOVE EXISTING FIBER OPTIC SPLICE AT 23RD AVENUE S/S 320TH STREET AND PULL BACK FIBER CABLE IN EXISTING CONDUIT TO THE NEAREST PULL BOX. CUT AND INTERCEPT EXISTING CONDUIT WITH NEW 2 INCH CONDUIT FOR CITY OWNED FIBER CABLE. RE-RUN FIBER CABLE INTO NEW 2 INCH CONDUIT AND ABANDON EXISTING CONDUIT BETWEEN INTERCEPTS IN PLACE. RESTORE/REINSTALL FIBER OPTIC SPLICE AT 23RD AVENUE S/S 320TH STREET. COORDINATE FIBER OPTIC OUTAGE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- 17
 - A. SPLIT EXISTING ILLUMINATION CIRCUIT ALONG THE NORTH SIDE OF S 320TH STREET APPROXIMATELY HALFWAY BETWEEN 23RD AVENUE S AND 21ST AVENUE S. INSTALL NEW EPOXY SPLICE KITS AT SPLIT AND REMOVE UNUSED CONDUCTOR AND GROUND WIRE. SPLICE EXISTING CONDUCTORS TO NEW LIGHTING CONDUCTORS IN JUNCTION BOX TO RECEIVE POWER FROM NEW SERVICE CABINET.
 - B. SPLIT EXISTING ILLUMINATION CIRCUIT ALONG THE SOUTH SIDE OF S 320TH STREET APPROXIMATELY HALFWAY BETWEEN BOTH 23RD AVENUE S AND 21ST AVENUE S AND PETE VON REICHBAUER WAY S AND 21ST AVENUE S. INSTALL NEW EPOXY SPLICE KITS AT SPLIT AND REMOVE UNUSED CONDUCTOR AND GROUND WIRE. SPLICE EXISTING CONDUCTORS TO NEW LIGHTING CONDUCTORS IN JUNCTION BOX TO RECEIVE POWER FROM NEW SERVICE CABINET.
 - C. AT SERVICE CABINET, ONE CIRCUIT WILL SERVICE THE NORTH SIDE OF S 320TH STREET. THE OTHER CIRCUIT WILL SERVICE THE SOUTH SIDE OF S 320TH STREET. SEE WIRE SCHEDULE ON SG03 FOR CIRCUIT RUNS.
- 18 ALL NEW LUMINAIRES SHALL BE FITTED WITH CIMCOM CONTROL NODES. SEE SPECIAL PROVISIONS. (4 LOCATIONS)
- 19 CONNECT SERVICE TO NEW TRANSFORMER ON THE EAST SIDE OF 21ST AVENUE, NORTH OF THE INTERSECTION WITH S 320TH STREET IN ACCORDANCE WITH COFW STANDARD PLAN 3-41.
- 20 DIRECTIONALLY DRILL ACROSS S 320TH STREET FOR CONDUIT RUNS 6, 8, AND 14. LOCATE DRILLING EQUIPMENT IN NEW CENTER ISLAND OR AS NEEDED.

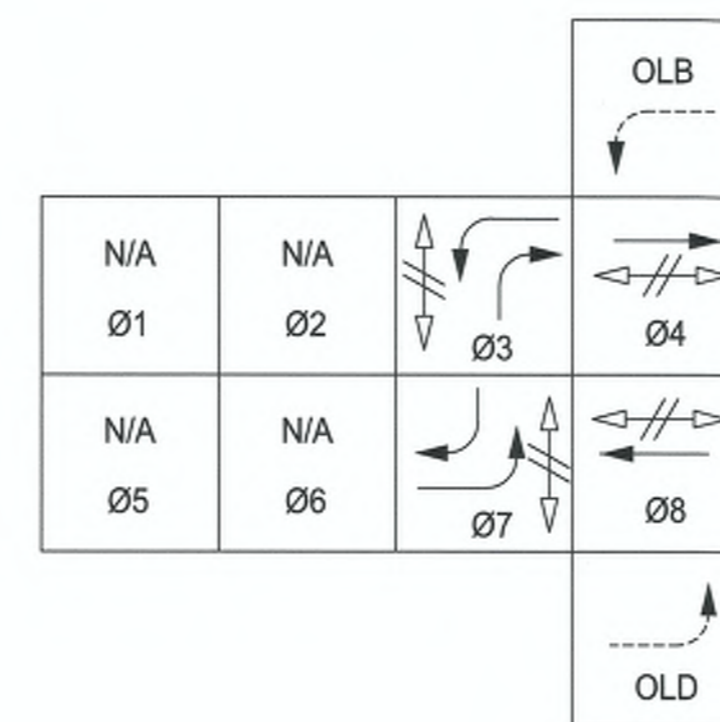
GENERAL NOTES (FOR SHEET SG-2)

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF FEDERAL WAY STANDARD PLANS, AND CONTRACT SPECIAL PROVISIONS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) 2023 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND THE 2022 WSDOT STANDARD PLANS AS SUPPLEMENTED WITH THE ABOVE REFERENCED DOCUMENTS.

SIGNAL FACE SCHEDULE



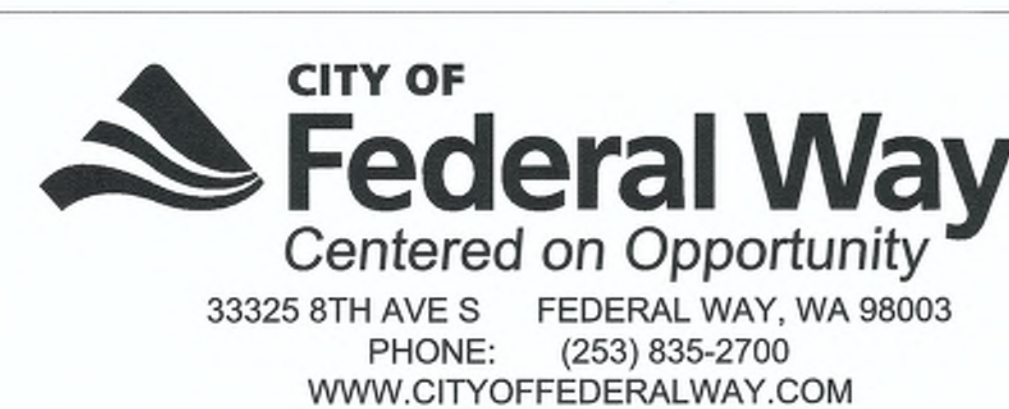
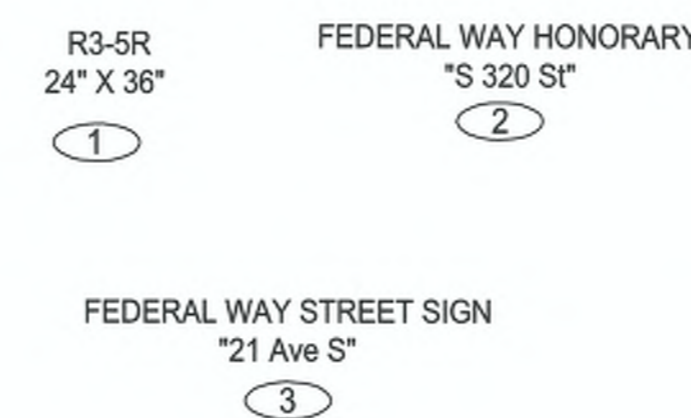
SIGNAL PHASING DIAGRAM



- PEDESTRIAN MOVEMENT
- PROTECTED VEHICLE MOVEMENT
- PERMITTED VEHICLE MOVEMENT

EMERGENCY PREEMPTION SCHEDULE	
DETECTOR	PHASE
A	3 & 8
B	4 & 7
C	4 & 7
D	3 & 8

SIGN LEGEND (FOR SHEET SG-2)



DRAFTED: NH
 DESIGNED: CG
 REVIEWED: CG
 APPROVED: CG






















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NO.	DATE	REVISION

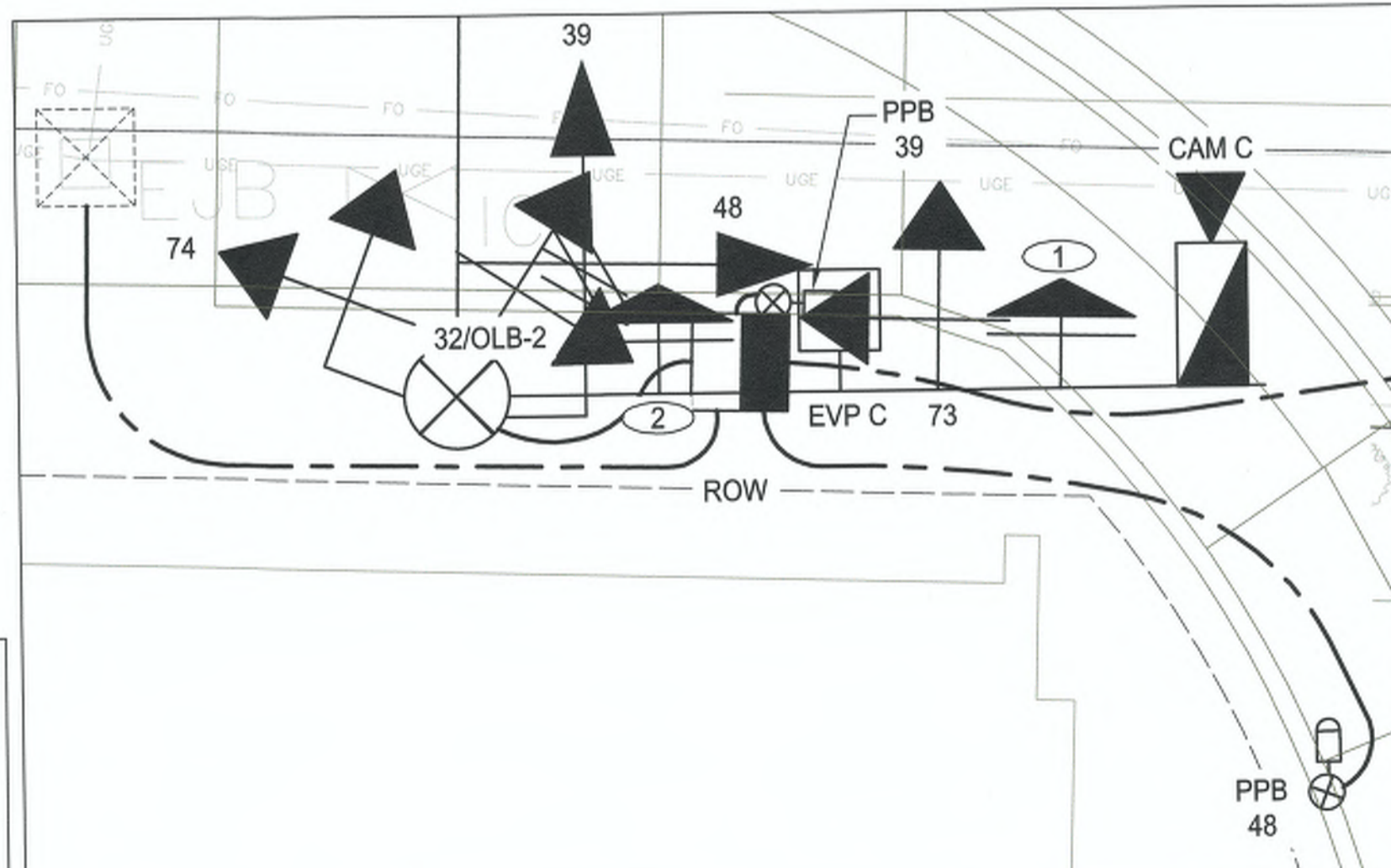
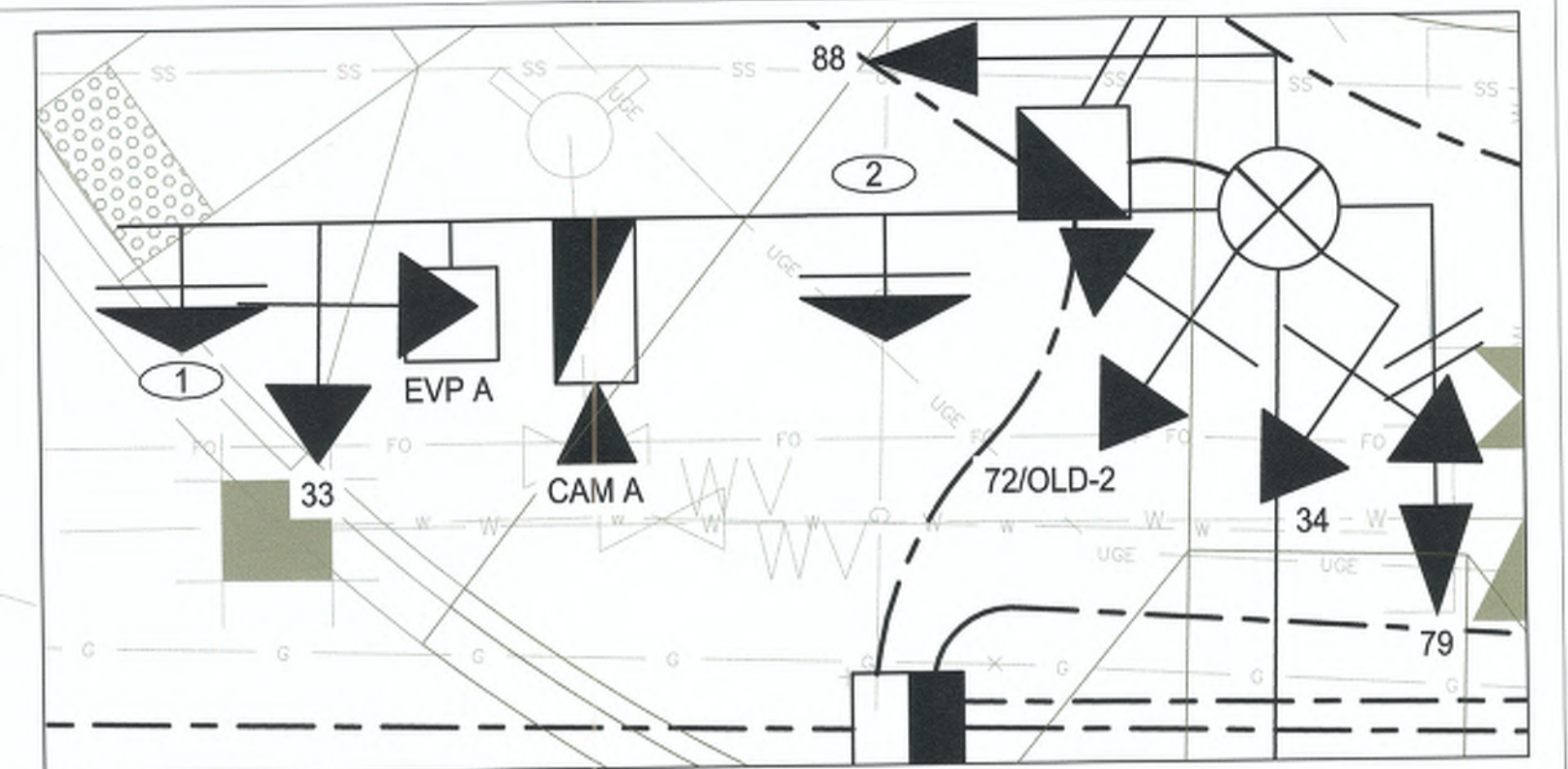
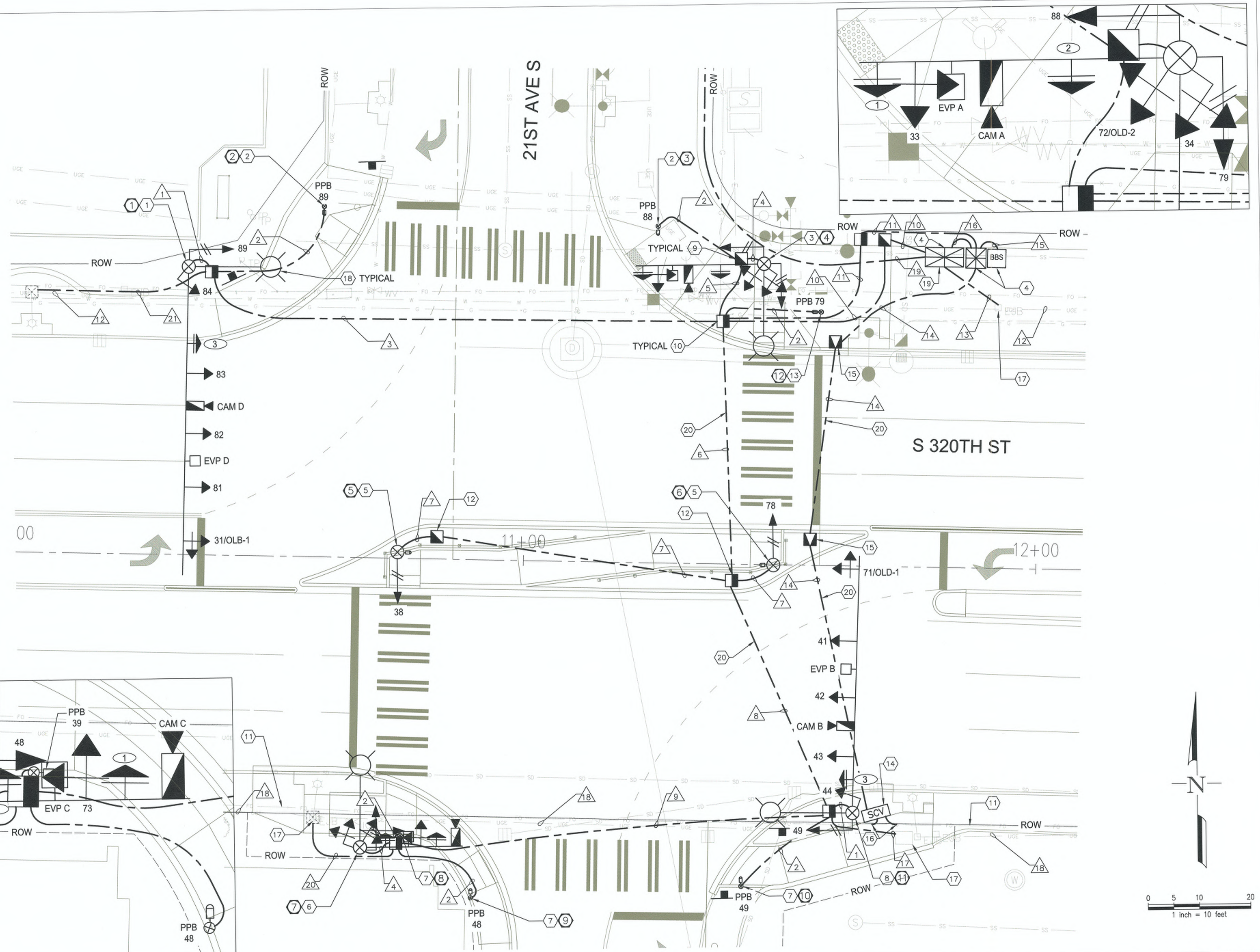
21ST AVE S AND S 320TH ST

SIGNALIZATION PLAN

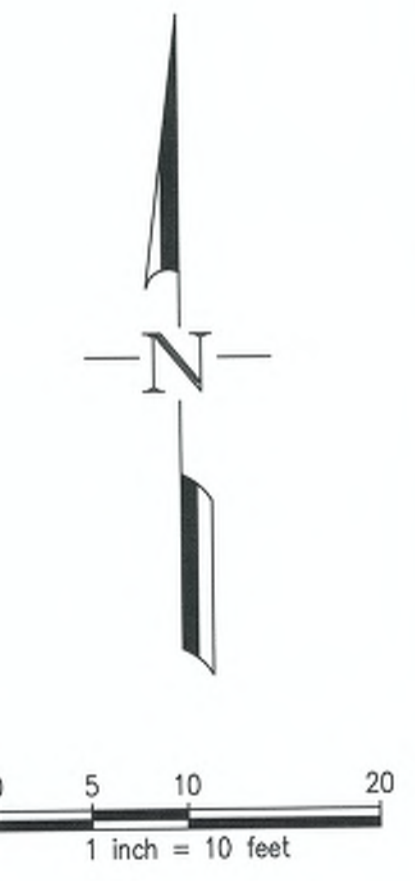
CITY PROJECT #: 36225
 SHEET SG01
 14 OF 31

LEGEND:

-  PROPOSED MAST ARM STANDARD
-  TYPE PPB POST
-  TYPE PS PEDESTRIAN SIGNAL POLE
-  PROPOSED PEDESTRIAN PUSHBUTTON ASSEMBLY
-  PROPOSED EMERGENCY VEHICLE PREEMPTION (EVP)
-  HYBRID RADAR/VIDEO DETECTION CAMERA (VANTAGE VECTOR NEXT)
-  PROPOSED PEDESTRIAN SIGNAL HEAD
-  PROPOSED VEHICLE SIGNAL HEAD
-  PROPOSED SIGN
-  TYPE 2 JUNCTION BOX
-  TYPE 8 JUNCTION BOX
-  PROPOSED CONTROLLER CABINET
-  ELECTRICAL SERVICE CABINET #3053
-  PULL BOX
-  SMALL CABLE VAULT
-  EXISTING LUMINAIRE JUNCTION BOX
-  CONSTRUCTION NOTE
-  POLE ID NOTE
-  SIGN NOTE



Underground Service Alert
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 811/800
 227-2600
TWO WORKING DAYS BEFORE YOU DIG



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 1001 4th Avenue Seattle, WA 98154
 Suite 4120 (206) 576-4220

CHRISTOPHER A. GREGG
 STATE OF WASHINGTON
 REGISTERED PROFESSIONAL ENGINEER
 EXPIRES 06/24/25

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NO.	DATE	REVISION

21ST AVE S AND S 320TH ST
SIGNAL PLAN

CITY PROJECT #:
 36225
 SHEET
SG02
 15 OF 31

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WIRE SCHEDULE

Run	Conduit Size	PPB (2C)	PED HEADS (5C)	VEHICLE HEADS (5C)	VEHICLE HEADS (7C)	EVP DETECT (3CS)	ILLUM (#8)	VEHICLE DET COAX	FIBER OPTIC (24 STRAND)	POWER (#8)	FILL*	FILL LIMIT* (26%)	CIRCUIT	COMMENTS
1	3"		1	1	1	1					0.85	1.92		
	2"						2				0.11	0.87		
2	2"	1									0.09	0.87		
	3"	1	1	1	1	1					0.94	1.92		
3	2"						2				0.11	0.87		
	3"		2	1	1	1					0.99	1.92		
4	2"						2				0.11	0.87		
	3"	1	2	1	1	1					1.08	1.92		
5	2"						2				0.11	0.87		
	3"	3	5	2	2						1.59	1.92		
6	2"					2		2			0.79	0.87		
	2"						6				0.34	0.87	B	2 WIRES FOR ILLUMINATION POLES ON S 320TH ST ON NEW CIRCUIT.
7	2"		1								0.14	0.87		
	3"	3	3	2	2						1.31	1.92		
8	3"						2			2	0.79	1.92		
	2"						6				0.34	0.87	B	2 WIRES FOR ILLUMINATION POLES ON S 320TH ST ON NEW CIRCUIT.
9	3"	2	2	1	1	1					1.17	1.92		
	2"						2				0.11	0.87		
10	2"						10				0.56	0.87		
	3"			4	4						1.24	1.92		
11	3"	6	8								1.66	1.92		
	3"					4		4			1.58	1.92		
12	EXISTING						2				0.11	0.87	A	EXISTING WIRES FOR ILLUMINATION POLES ON S 320TH ST ASSUMED TO BE 2 #8.
13	2"						2				0.11	0.87	A	2 WIRES FOR ILLUMINATION POLES ON S 320TH ST ON NEW CIRCUIT.
14	2"							2			0.15	0.87		
15	2"									4	0.22	0.87		
16	2"									2	0.11	0.87		
17	2"						2				0.11	0.87	B	2 WIRES FOR ILLUMINATION POLES ON S 320TH ST ON NEW CIRCUIT.
18	EXISTING						2				0.11	0.87	B	EXISTING WIRES FOR ILLUMINATION POLES ON S 320TH ST ASSUMED TO BE 2 #8.
19	2"													COORDINATE WITH PSE FOR SERVICE CONNECTION AND WIRING.
20	2"													SPARE WITH PULL TAPE AND #8 GROUND.

*AREA IN SQUARE INCHES.

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SIGN SCHEDULE



R3-5R
24" X 36"
1



HONORARY NAME Veterans Way

FEDERAL WAY HONORARY
"S 320 St"
24" X 36"
2

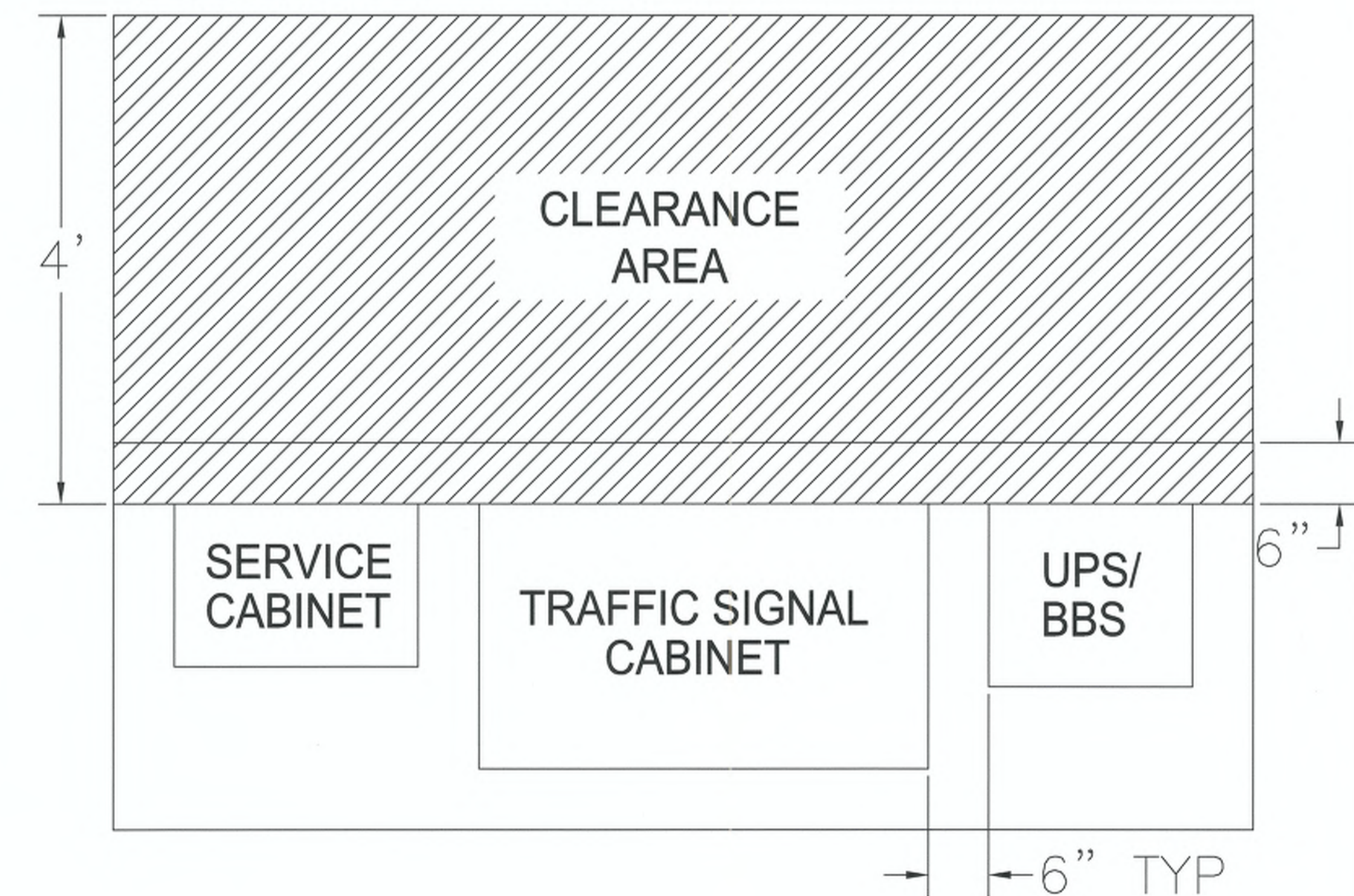


FEDERAL WAY STREET SIGN
"21 Ave S"
18" Height
12" D Series Capital
9" D Series Lower Case
3

SIGN NOTES

1. VERIFY LENGTH OF STREET NAME SIGNS PRIOR TO FABRICATION.

DETAIL A



CITY OF Federal Way
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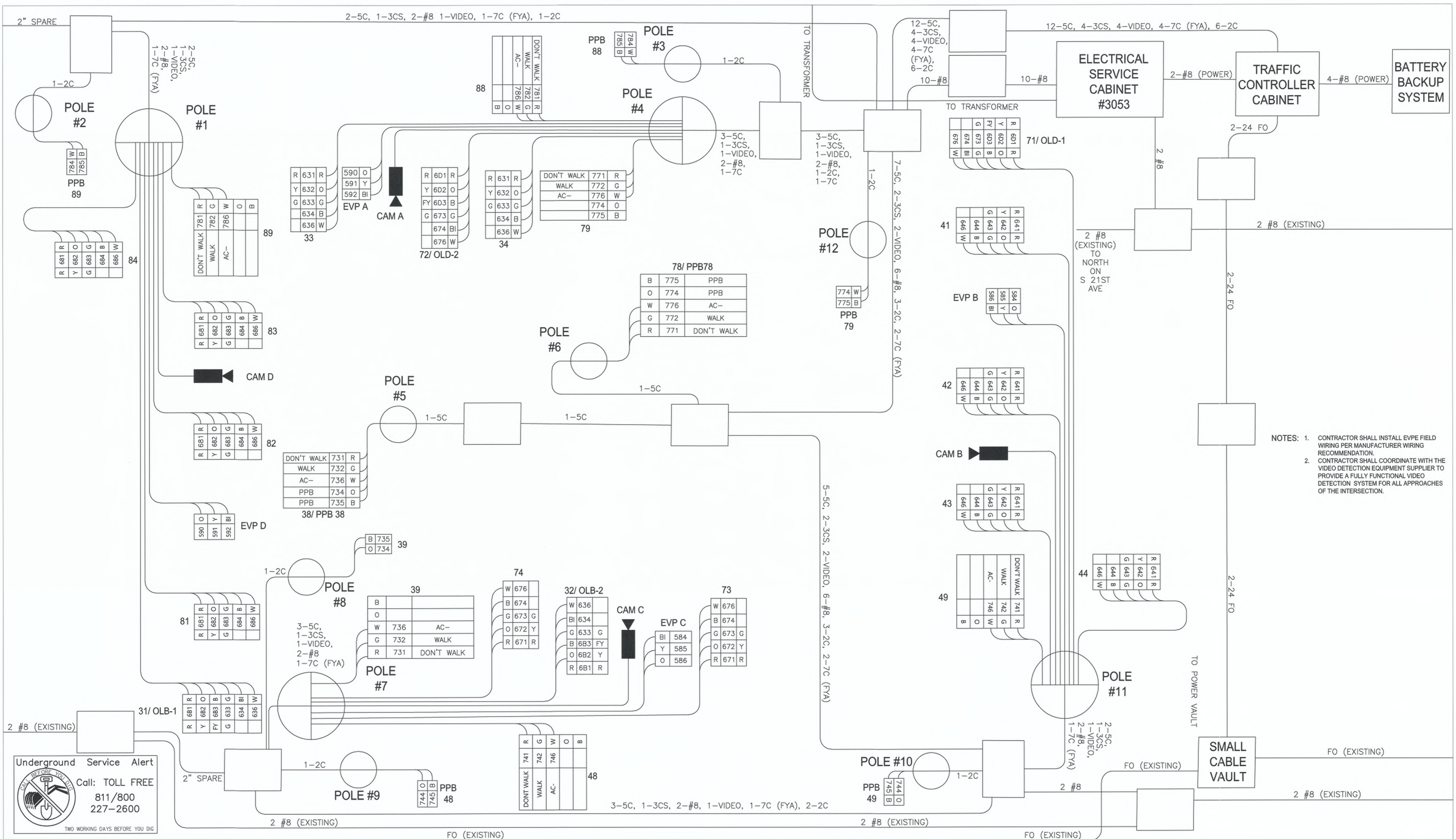
DRAFTED: NH
 DESIGNED: CG
 REVIEWED: CG
 APPROVED: CG

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NO.	DATE	REVISION

21ST AVE S AND S 320TH ST

SIGNAL DETAILS

CITY PROJECT #: 36225
 SHEET: SG03
 16 OF 31



- NOTES:
1. CONTRACTOR SHALL INSTALL EVPE FIELD WIRING PER MANUFACTURER WIRING RECOMMENDATION.
 2. CONTRACTOR SHALL COORDINATE WITH THE VIDEO DETECTION EQUIPMENT SUPPLIER TO PROVIDE A FULLY FUNCTIONAL VIDEO DETECTION SYSTEM FOR ALL APPROACHES OF THE INTERSECTION.

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 227-2600
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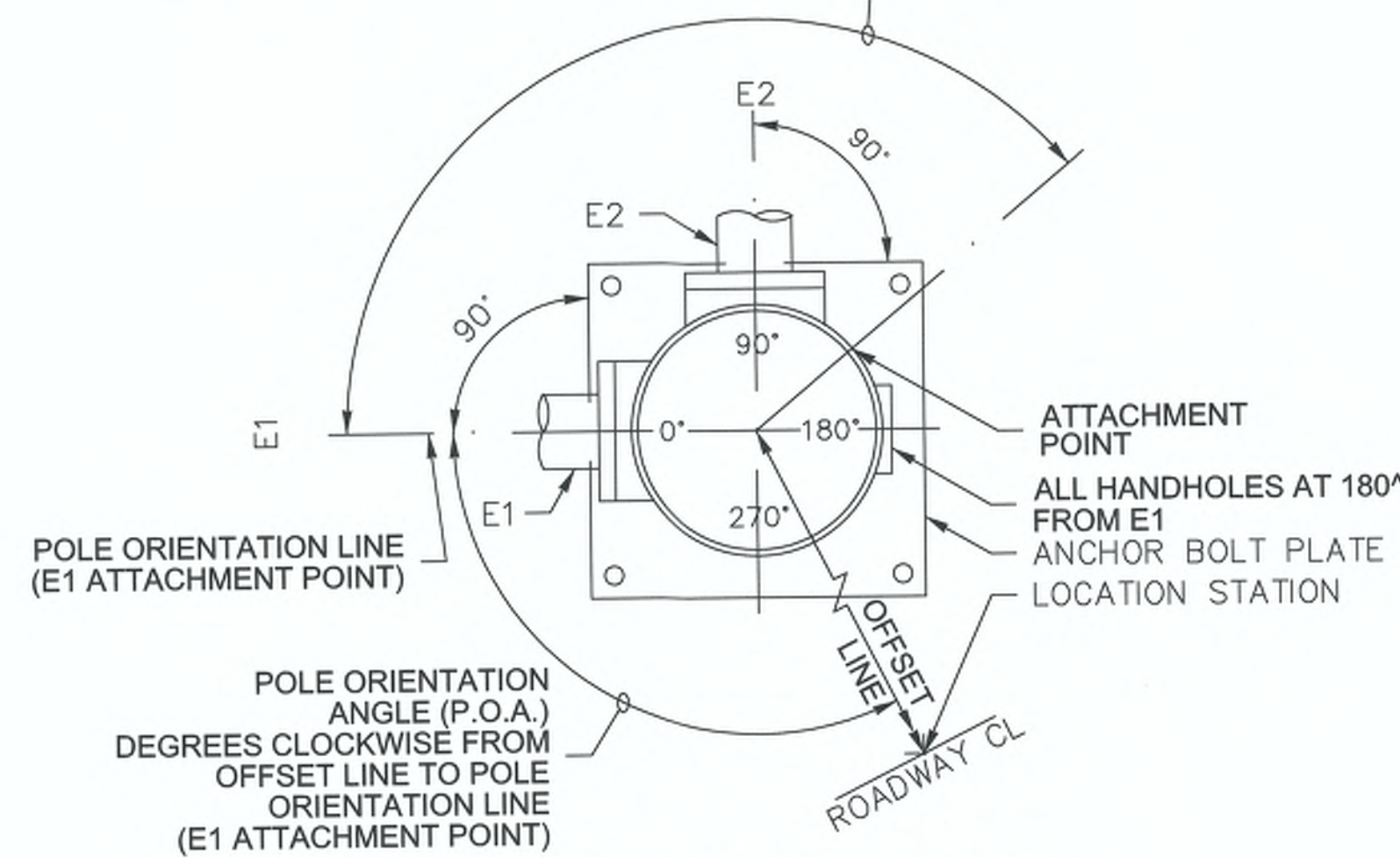
21ST AVE S AND S 320TH ST
SIGNALIZATION WIRING DIAGRAM

CITY PROJECT #: 36225
 SHEET SG04
 17 OF 31

LEGEND

- a. VEHICLE DISPLAY f. LUMINAIRE
- b. MAST ARM MTD. SIGN g. PEDESTRIAN DISPLAY
- c. STREET NAME SIGN h. TERMINAL CABINET
- d. PRE-EMPT DETECTOR i. APS PPB-M
- e. POST MTD. SIGN j. HANDHOLE

MEASURE ATTACHMENT POINT ANGLES CLOCKWISE FROM POLE ORIENTATION LINE (E1 ATTACHMENT POINT) TO THE ATTACHMENT POINT LOCATION

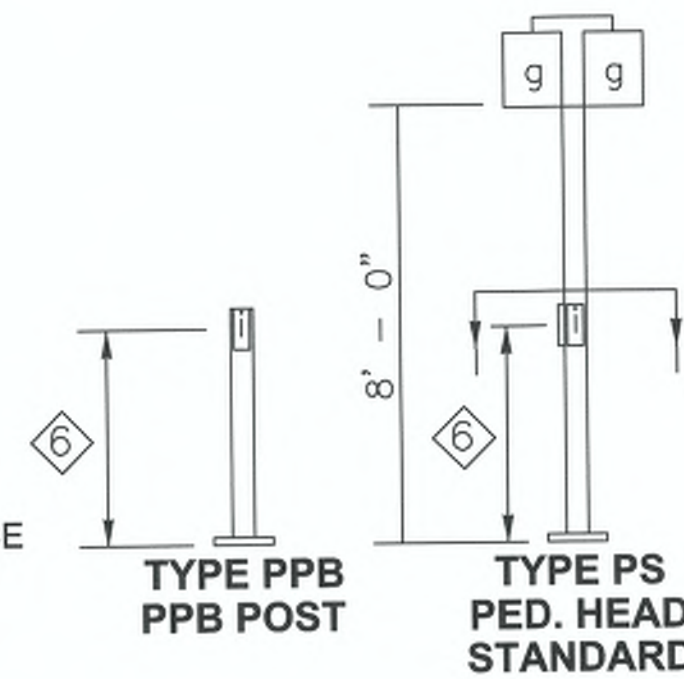


POLE ORIENTATION AND ATTACHMENT POINT DETAIL

NOTE:
TYPE E MOUNTS SHALL BE USED FOR PEDESTRIAN DISPLAYS ON TYPE II OR III SIGNAL STANDARDS, WITH THE FOLLOWING EXCEPTION: PEDESTRIAN DISPLAYS MOUNTED ON OCTAGONAL (8 SIDED) SIGNAL STANDARDS AT AN ANGLE OTHER THAN A 45 DEGREE INCREMENT SHALL USE A TYPE A MOUNT FOR TWO PEDESTRIAN DISPLAYS, OR A TYPE B MOUNT FOR A SINGLE PEDESTRIAN DISPLAY.

3' - 6" MEASURED FROM SIDEWALK SURFACE TO CENTER OF PEDESTRIAN PUSH BUTTON

STANDARD TYPE	STANDARD PLAN REFERENCES			
	POLE	FOUNDATION STANDARD	FOUNDATION CURB	ELECTRICAL
PPB FIXED	J-20.10	J-20.10	J-20.11	J-20.10
PS	J-20.16	J-21.10	J-20.11	J-20.20
III	N/A	J-26.10, J-26.15	N/A	N/A

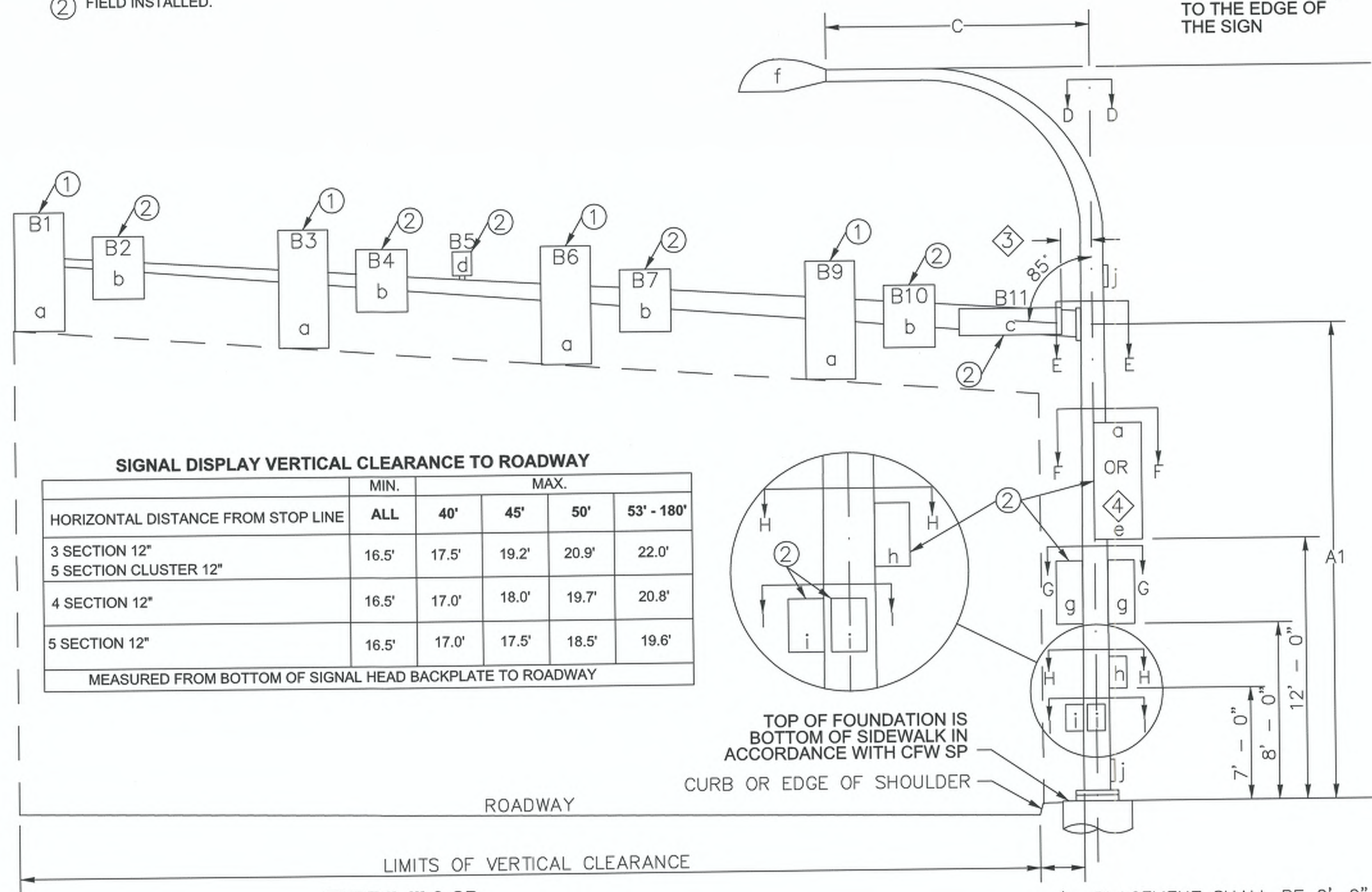


NOTES

- ① MOUNTING BRACKET INSTALLED AT OFFSET DISTANCE INDICATED IN CHART. FOR TYPE N MOUNTS ONLY, DRILL 1" DIA. HOLE IN MAST ARM AND INSTALL PLASTIC SPLIT BUSHING FOR CABLE ENTRANCE.
- ② FIELD INSTALLED.

③ 1' - 0" MIN. TO 2' - 6" MAX. FROM POLE CENTERLINE TO SIGN EDGE

④ FOR POST MOUNTED SIGNS THERE SHALL BE 2' - 0" MIN. FROM THE FACE OF THE CURB OR THE EDGE OF THE SHOULDER TO THE EDGE OF THE SIGN



HORIZONTAL DISTANCE FROM STOP LINE	SIGNAL DISPLAY VERTICAL CLEARANCE TO ROADWAY				
	MIN.	MAX.			
3 SECTION 12"	16.5'	17.5'	19.2'	20.9'	22.0'
4 SECTION 12"	16.5'	17.0'	18.0'	19.7'	20.8'
5 SECTION 12"	16.5'	17.0'	17.5'	18.5'	19.6'

MEASURED FROM BOTTOM OF SIGNAL HEAD BACKPLATE TO ROADWAY

POLE #	LOCATION					MOUNTING HEIGHT	MAST ARM LENGTH	SIGNAL MAST ARM DATA																			LUMINAIRE ARM (FT)		POLE ATTACHMENT ANGLES (DEGREES)												FOUNDATION DESIGN				NOTES					
	STATION	OFFSET	LT	RT	ELEV.*			TYPE	OFFSET DIST. (FT) (Z) (POLE 1 TO ATTACHMENT PT)											WINDLOAD AREAS (SQ. FT) (X)(Y)								C1	C2	POA	D1	D2	E1	E2	F1	F2	G1	G2	H	I1	I2	DESIGN XYZ (FT³)	SOIL BEARING PREASURE (PSI)	ALT 1 DEPTH (FT)		ALT 2 DEPTH (FT)				
									B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B1	B2	B3	B4	B6	B7	B9	B10																	B11		3'RD	3'SQ	4'RD	3'RD	4'RD
									B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B1	B2	B3	B4	B6	B7	B9	B10																	B11		3'RD	3'SQ	4'RD	3'RD	4'RD
①	10+33.6	56.1	X			III	18	40	60	53.4		42.9	37.8	32.5		20.8	15.0	12.4	9.2	9.2	9.2	8.6	1676.6	16	0	270	0	315	180	135			1900	1500	13	8	8													
②	10+60.0	68.2	X			PPB																																												
③	11+25.2	65.5	X			PPB																																												
④	11+45.9	58.5	X			III	18	40	25	23.8	20.7	17.8						8.5	6.0	9.2		11.0	426.7	16	90	270	0	45	45	90	180	135			700	1500	8	7	7											
⑤	11+75.4	1.2	X			PS																																												
⑥	11+48.8	0.0		X		PS																																												
⑦	10+69.1	56.4		X		III	18	40	20	15.0	11.9	9.5						5.0	6.0	9.2		11.0	254.5	16	90	270	0	45	45	0	90	135			700	1000	10	8	8											
⑧	10+76.8	54.0		X		PPB																																												
⑨	10+90.7	65.9		X		PPB																																												
⑩	11+43.5	62.7		X		PPB																																												
⑪	11+65.5	48.1		X		III	18	40	50	47.5	33.5	28.0	22.4					11.0	6.5	12.4	9.2	9.2	9.2	8.6	1260.4	16	0	270	0	315	180	135			1350	1000	11	9	9											
⑫	11+57.3	49.3	X			PPB																																												

* TOP OF FOUNDATION IS BOTTOM OF SIDEWALK IN ACCORDANCE WITH CFW SP. FIELD VERIFY ELEVATION PRIOR TO ORDERING SIGNAL STANDARDS.

** CALCULATED POLE XYZ (FT³) IS THE SUM OF THE TOTAL XYZ (FT³) FOR THE SIGNAL ARM AND THE XYZ (FT³) FOR THE LUMINAIRE ARM (IF PRESENT).

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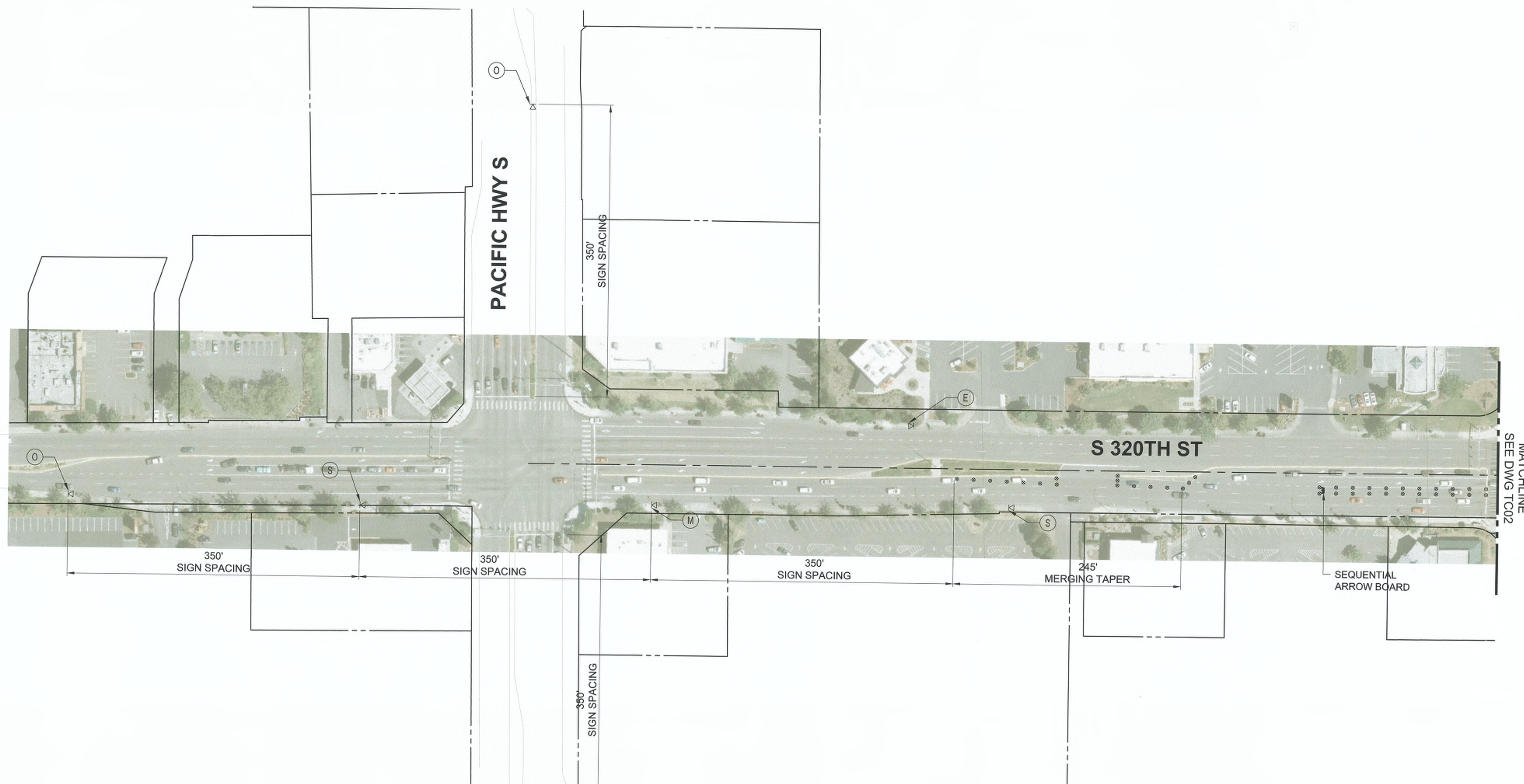
CHRISTOPHER A. GEORICH
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 06/24/25

DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

21ST AVE S AND S 320TH ST
SIGNAL POLE SPECIFICATIONS

CITY PROJECT #: 36225
SHEET SG05
18 OF 31



GENERAL NOTES

1. THIS APPROVED TRAFFIC CONTROL PLAN IS AVAILABLE FOR CONTRACTOR USE AND BASED ON ONE WAY OF CONSTRUCTING THE PROJECT. IF THE CONTRACTOR DETERMINES THAT THEIR SCHEDULE AND SEQUENCE OF WORK ACTIVITIES DIFFER FROM THE TRAFFIC CONTROL SHOWN, THE CONTRACTOR MUST SUBMIT REVISED PROJECT SPECIFIC TRAFFIC CONTROL PLANS TO THE CITY FOR APPROVAL.
2. ROADWORK AHEAD SIGNS SHALL BE PLACED 350' FROM STOP BAR ON ROADWAYS ENTERING CONSTRUCTION ZONE BETWEEN WARNING SIGNS ON S 320TH ST.
3. TEMPORARY LANE WIDTHS ARE MEASURED FROM EDGE OF CHANNELIZING DEVICE TO EDGE OF CHANNELIZING DEVICE.
4. FOR PED DETOUR SEE SHEETS PTC01 AND PTC02.

LEGEND

- ⊗ BARREL
- PEDESTRIAN DETOUR
- ▨ WORK ZONE
- BARRIER
- ⊠ SIGN
- ⊗(X) SIGN DESIGNATION, SEE TCD01
- ↔ SEQUENTIAL ARROW BOARD
- EXISTING ROW

NOTES

1. THIS PLAN TO BE IMPLEMENTED DURING ACTIVE WORKING HOURS DURING MEDIAN CONSTRUCTION.



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 mchahly
 Nov 30, 2023 - 4:44pm

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DRAFTED: MRV
DESIGNED: CJO
REVIEWED: TCG
APPROVED: JGM

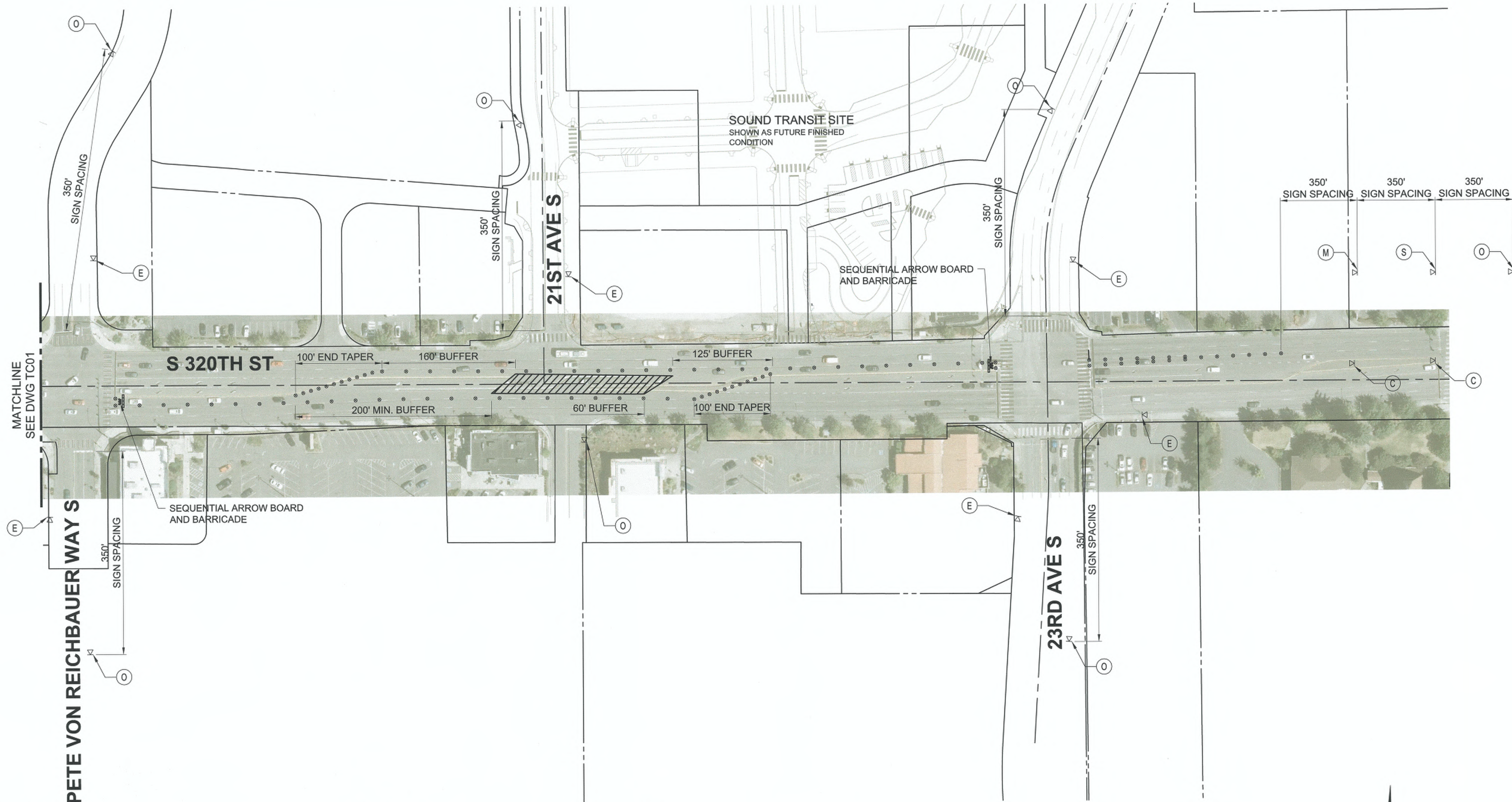


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NO.	DATE	REVISION

21ST AVE S AND S 320TH ST

TRAFFIC CONTROL PLAN
MEDIAN ISLAND - WORKING HOURS

CITY PROJECT #:	36225
SHEET	TC01
19 OF 31	



GENERAL NOTES

1. THIS APPROVED TRAFFIC CONTROL PLAN IS AVAILABLE FOR CONTRACTOR USE AND BASED ON ONE WAY OF CONSTRUCTING THE PROJECT. IF THE CONTRACTOR DETERMINES THAT THEIR SCHEDULE AND SEQUENCE OF WORK ACTIVITIES DIFFER FROM THE TRAFFIC CONTROL SHOWN, THE CONTRACTOR MUST SUBMIT REVISED PROJECT SPECIFIC TRAFFIC CONTROL PLANS TO THE CITY FOR APPROVAL.
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3. TEMPORARY LANE WIDTHS ARE MEASURED FROM EDGE OF CHANNELIZING DEVICE TO EDGE OF CHANNELIZING DEVICE.
4. FOR PED DETOUR SEE SHEETS PTC01 AND PTC02.

LEGEND

- ⊗ BARREL
- PEDESTRIAN DETOUR
- ▨ WORK ZONE
- BARRIER
- ⚠ SIGN
- ⊙ SIGN DESIGNATION, SEE TCD01
- ▬ SEQUENTIAL ARROW BOARD
- EXISTING ROW

NOTES

1. THIS PLAN TO BE IMPLEMENTED DURING ACTIVE WORKING HOURS DURING MEDIAN CONSTRUCTION.



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 REVIEWED: TCG
 APPROVED: JGM



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21ST AVE S AND S 320TH ST

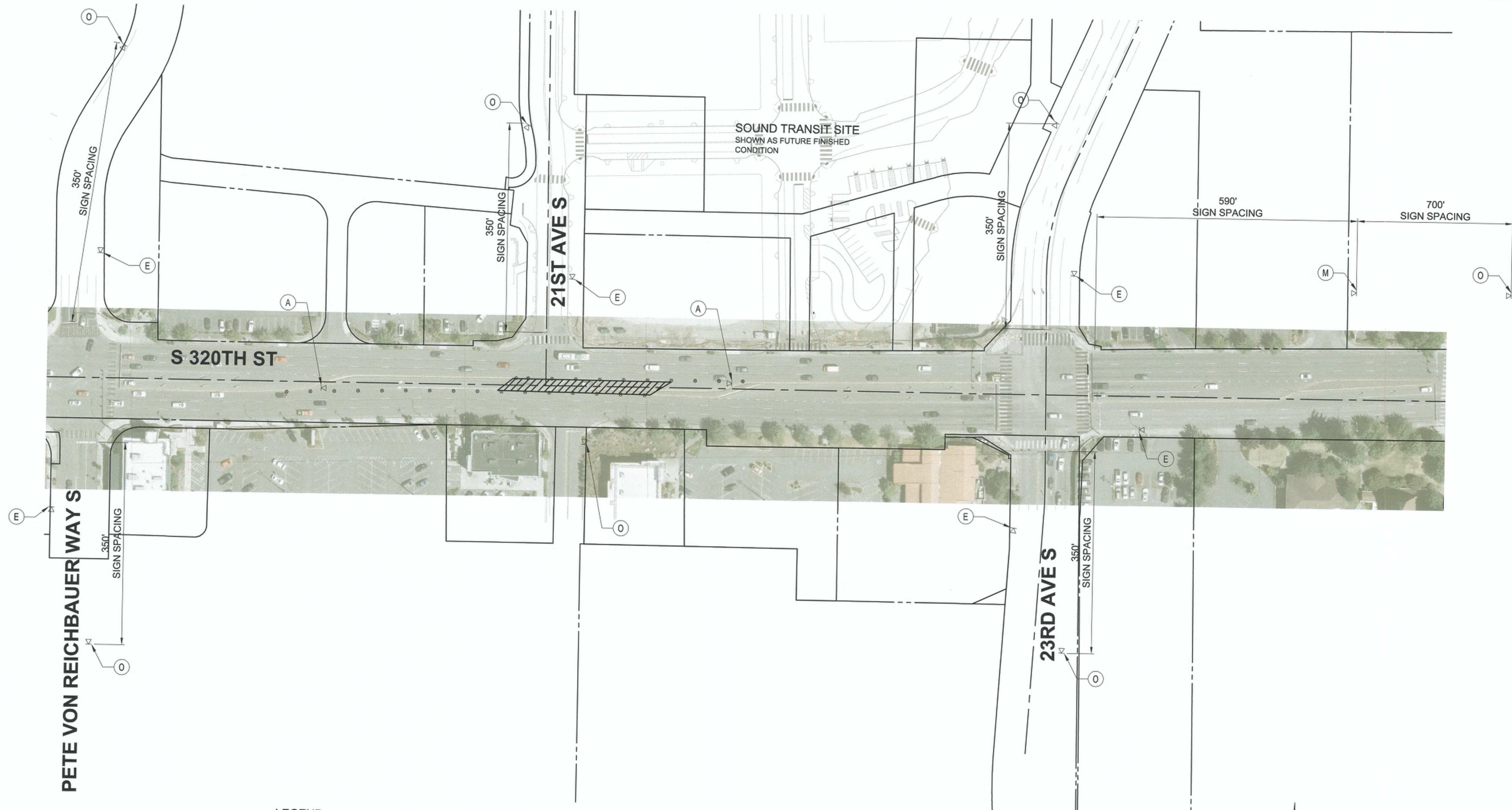
**TRAFFIC CONTROL PLAN
 MEDIAN ISLAND - WORKING HOURS**

CITY PROJECT #:
 36225

SHEET
TC02

20 OF 31

Nov 30, 2023 - 4:15pm
 michaeltv
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GENERAL NOTES

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3. TEMPORARY LANE WIDTHS ARE MEASURED FROM EDGE OF CHANNELIZING DEVICE TO EDGE OF CHANNELIZING DEVICE.
4. FOR PED DETOUR SEE SHEETS PTC01 AND PTC02.

LEGEND

- BARREL
- PEDESTRIAN DETOUR
- WORK ZONE
- BARRIER
- SIGN
- SIGN DESIGNATION, SEE TCD01
- SEQUENTIAL ARROW BOARD
- EXISTING ROW

NOTES

1. THIS PLAN TO BE IMPLEMENTED OUTSIDE OF ACTIVE WORKING HOURS DURING MEDIAN CONSTRUCTION, UNTIL SIGNAL IS CONSTRUCTED AND OPERABLE.
2. REMOVE/COVER ALL SIGNS REFERRING TO LEFT LANE CLOSURE.



Dec 01, 2023 - 8:35am
 timg
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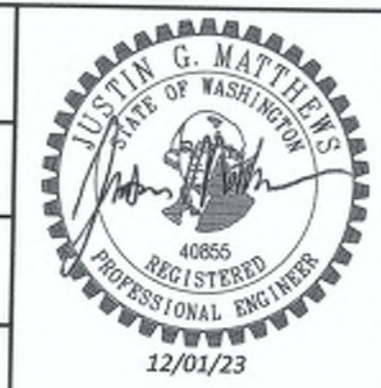
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DESIGNED: CJO
REVIEWED: TCG
APPROVED: JGM



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21ST AVE S AND S 320TH ST

TRAFFIC CONTROL PLAN

MEDIAN ISLAND - OUTSIDE WORKING HOURS

CITY PROJECT #:	36225
SHEET	TC03



GENERAL NOTES

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3. TEMPORARY LANE WIDTHS ARE MEASURED FROM EDGE OF CHANNELIZING DEVICE TO EDGE OF CHANNELIZING DEVICE.
4. FOR PED DETOUR SEE SHEETS PTC01 AND PTC02.

LEGEND

- ⊗ BARREL
- PEDESTRIAN DETOUR
- ▨ WORK ZONE
- BARRIER
- ⊗ SIGN
- ⊗ SIGN DESIGNATION, SEE TCD01
- ▭ SEQUENTIAL ARROW BOARD
- EXISTING ROW



Nov 30, 2023 - 4:45pm
 michaels
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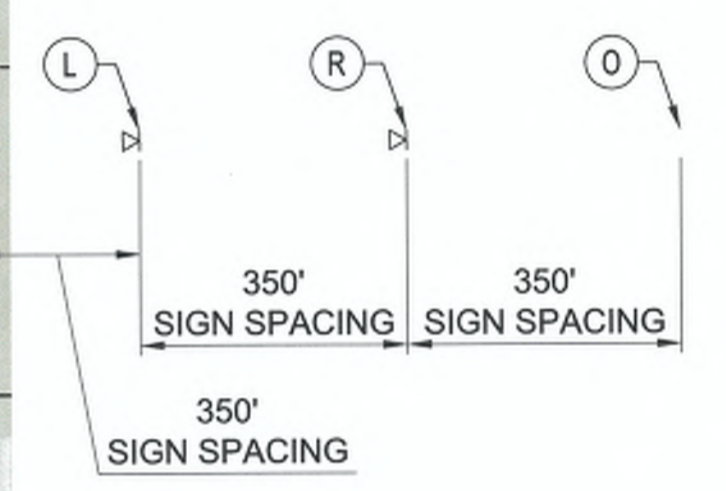


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21ST AVE S AND S 320TH ST

TRAFFIC CONTROL PLAN
NORTHWEST CORNER

CITY PROJECT #:	36225
SHEET	TC04
	22 OF 31



Nov 30, 2023 - 4:45pm
 michaelv
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GENERAL NOTES

1. THIS APPROVED TRAFFIC CONTROL PLAN IS AVAILABLE FOR CONTRACTOR USE AND BASED ON ONE WAY OF CONSTRUCTING THE PROJECT. IF THE CONTRACTOR DETERMINES THAT THEIR SCHEDULE AND SEQUENCE OF WORK ACTIVITIES DIFFER FROM THE TRAFFIC CONTROL SHOWN, THE CONTRACTOR MUST SUBMIT REVISED PROJECT SPECIFIC TRAFFIC CONTROL PLANS TO THE CITY FOR APPROVAL.
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3. TEMPORARY LANE WIDTHS ARE MEASURED FROM EDGE OF CHANNELIZING DEVICE TO EDGE OF CHANNELIZING DEVICE.
4. FOR PED DETOUR SEE SHEETS PTC01 AND PTC02.

LEGEND

- ⊗ BARREL
- PEDESTRIAN DETOUR
- ▨ WORK ZONE
- ▬ BARRIER
- ⊠ SIGN
- ⊗(X) SIGN DESIGNATION, SEE TCD01
- ⊠(A) SEQUENTIAL ARROW BOARD
- EXISTING ROW


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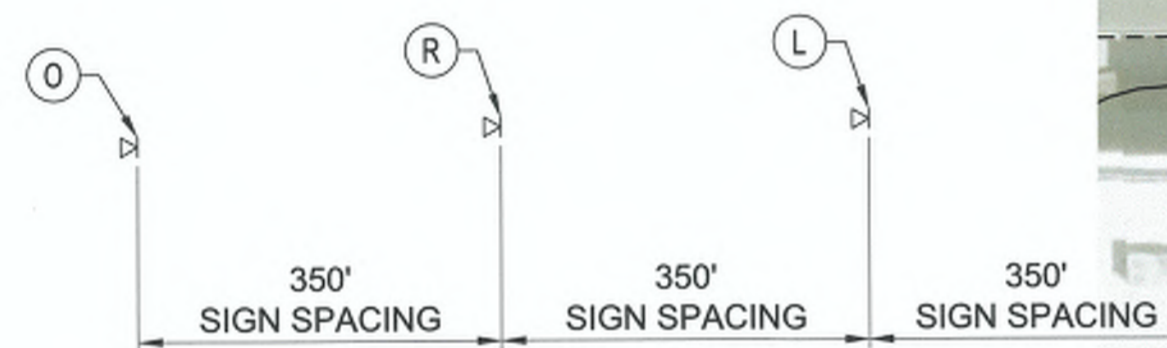
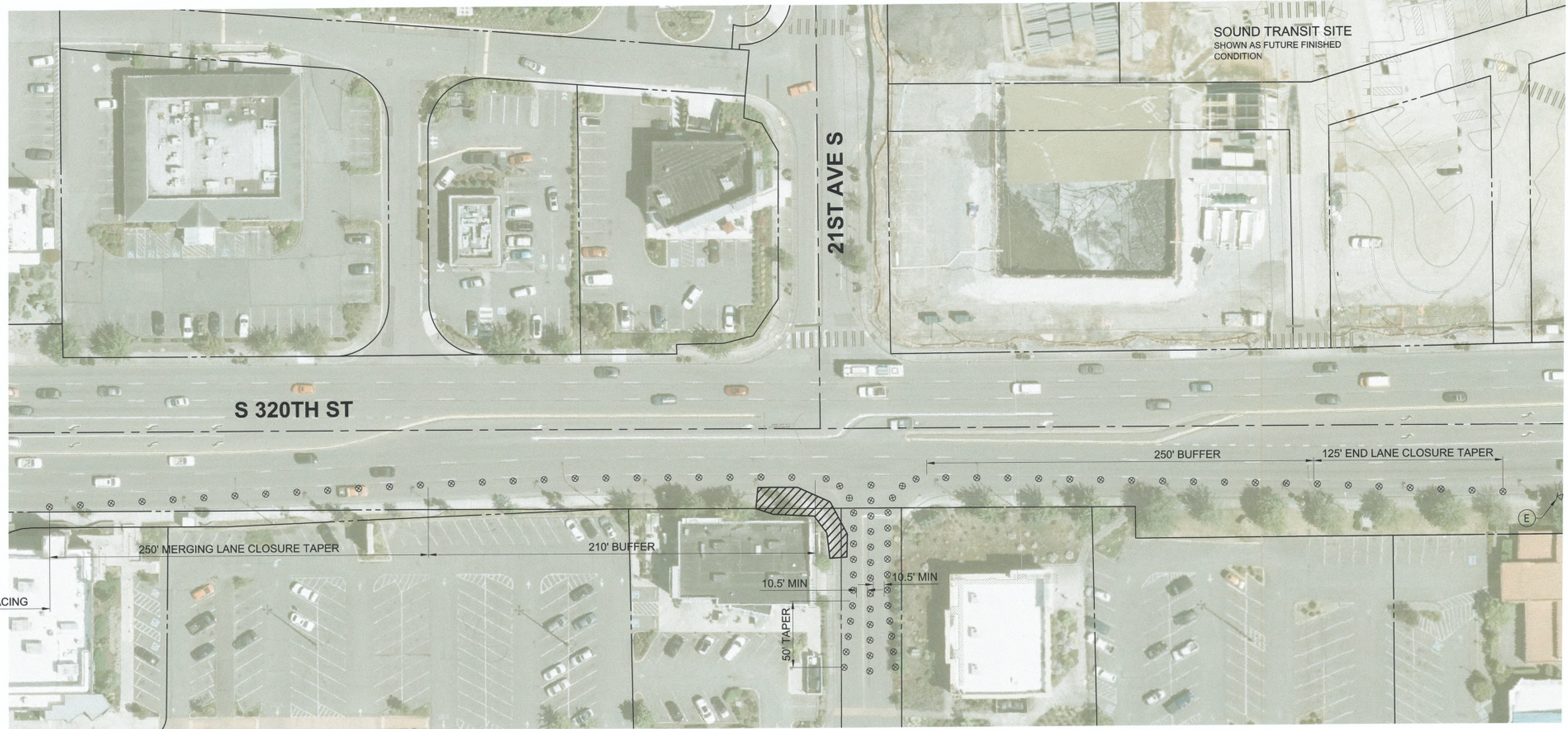


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21ST AVE S AND S 320TH ST

TRAFFIC CONTROL PLAN
NORTHEAST CORNER

CITY PROJECT #:	36225
SHEET	TC05
23 OF 31	



GENERAL NOTES

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3. TEMPORARY LANE WIDTHS ARE MEASURED FROM EDGE OF CHANNELIZING DEVICE TO EDGE OF CHANNELIZING DEVICE.
4. FOR PED DETOUR SEE SHEETS PTC01 AND PTC02.

LEGEND

- ⊗ BARREL
- PEDESTRIAN DETOUR
- ▨ WORK ZONE
- ▬ BARRIER
- ⊠ SIGN
- ⊙ SIGN DESIGNATION, SEE TCD01
- ⊞ SEQUENTIAL ARROW BOARD
- EXISTING ROW



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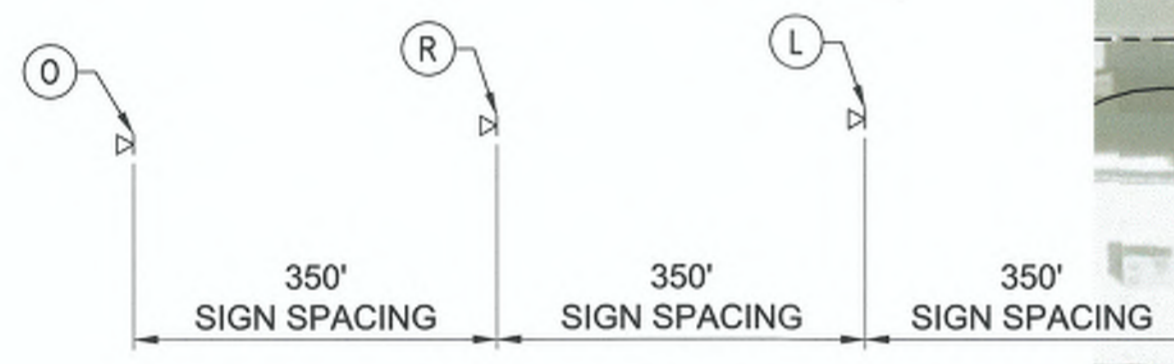


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21ST AVE S AND S 320TH ST

TRAFFIC CONTROL PLAN
SOUTHWEST CORNER

CITY PROJECT #:	36225
SHEET	TC06
	24 OF 31



GENERAL NOTES

1. THIS APPROVED TRAFFIC CONTROL PLAN IS AVAILABLE FOR CONTRACTOR USE AND BASED ON ONE WAY OF CONSTRUCTING THE PROJECT. IF THE CONTRACTOR DETERMINES THAT THEIR SCHEDULE AND SEQUENCE OF WORK ACTIVITIES DIFFER FROM THE TRAFFIC CONTROL SHOWN, THE CONTRACTOR MUST SUBMIT REVISED PROJECT SPECIFIC TRAFFIC CONTROL PLANS TO THE CITY FOR APPROVAL.
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4. FOR PED DETOUR SEE SHEETS PTC01 AND PTC02.

LEGEND

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- PEDESTRIAN DETOUR
- ▨ WORK ZONE
- ▬ BARRIER
- ⊠ SIGN
- ⊗ SIGN DESIGNATION, SEE TCD01
- ⊠ SEQUENTIAL ARROW BOARD
- EXISTING ROW



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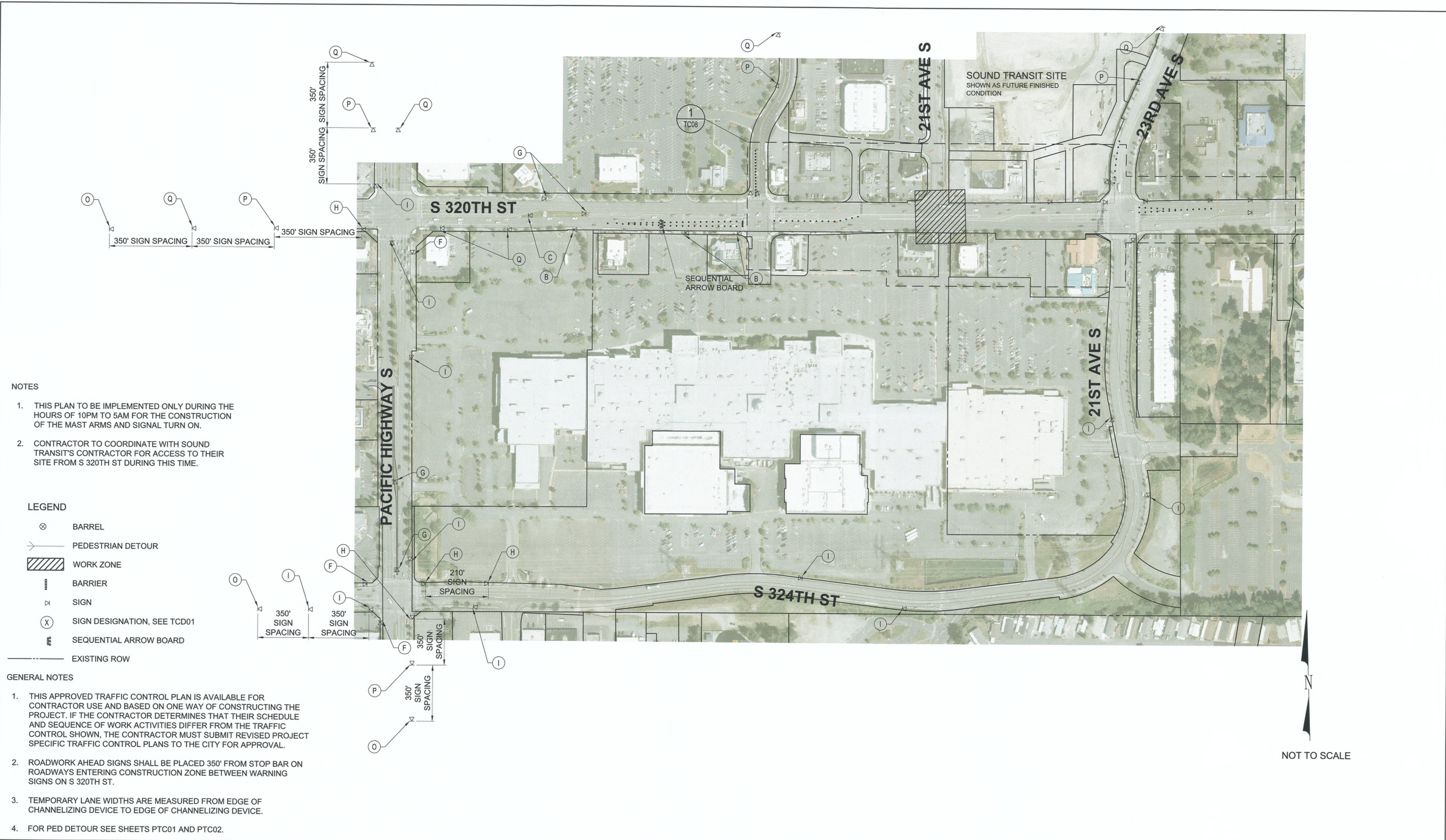
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21ST AVE S AND S 320TH ST
TRAFFIC CONTROL PLAN
SOUTHEAST CORNER

CITY PROJECT #:
36225
SHEET
TC07
25 OF 31

Nov 30, 2023 - 4:45pm
microadv
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Nov 30, 2023 - 4:45pm
 michaelv
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- NOTES**
1. THIS PLAN TO BE IMPLEMENTED ONLY DURING THE HOURS OF 10PM TO 5AM FOR THE CONSTRUCTION OF THE MAST ARMS AND SIGNAL TURN ON.
 2. CONTRACTOR TO COORDINATE WITH SOUND TRANSIT'S CONTRACTOR FOR ACCESS TO THEIR SITE FROM S 320TH ST DURING THIS TIME.

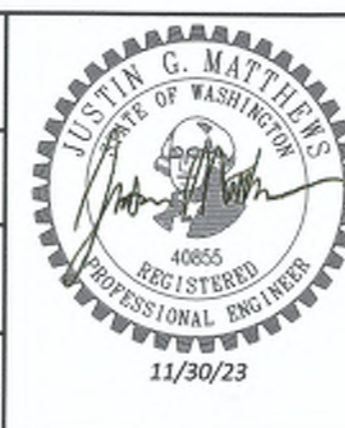
- LEGEND**
- ⊗ BARREL
 - PEDESTRIAN DETOUR
 - ▨ WORK ZONE
 - ▬ BARRIER
 - ⊠ SIGN
 - ⊙ SIGN DESIGNATION, SEE TCD01
 - ➡ SEQUENTIAL ARROW BOARD
 - EXISTING ROW

- GENERAL NOTES**
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 2. ROADWORK AHEAD SIGNS SHALL BE PLACED 350' FROM STOP BAR ON ROADWAYS ENTERING CONSTRUCTION ZONE BETWEEN WARNING SIGNS ON S 320TH ST.
 3. TEMPORARY LANE WIDTHS ARE MEASURED FROM EDGE OF CHANNELIZING DEVICE TO EDGE OF CHANNELIZING DEVICE.
 4. FOR PED DETOUR SEE SHEETS PTC01 AND PTC02.


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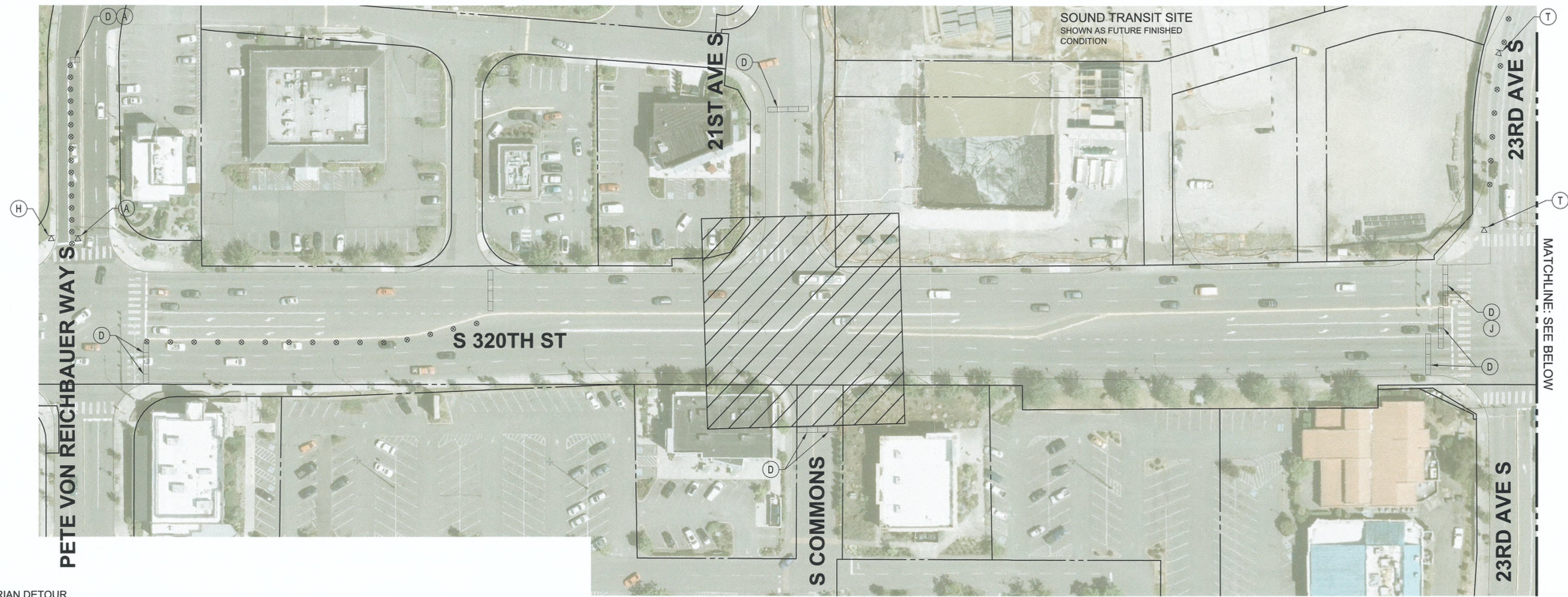
DRAFTED: MRV
 DESIGNED: CJO
 REVIEWED: TCG
 APPROVED: JGM



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

21ST AVE S AND S 320TH ST
TRAFFIC CONTROL PLAN
INTERSECTION CLOSURE DETOUR

CITY PROJECT #:
 36225
 SHEET
TC08
 26 OF 31

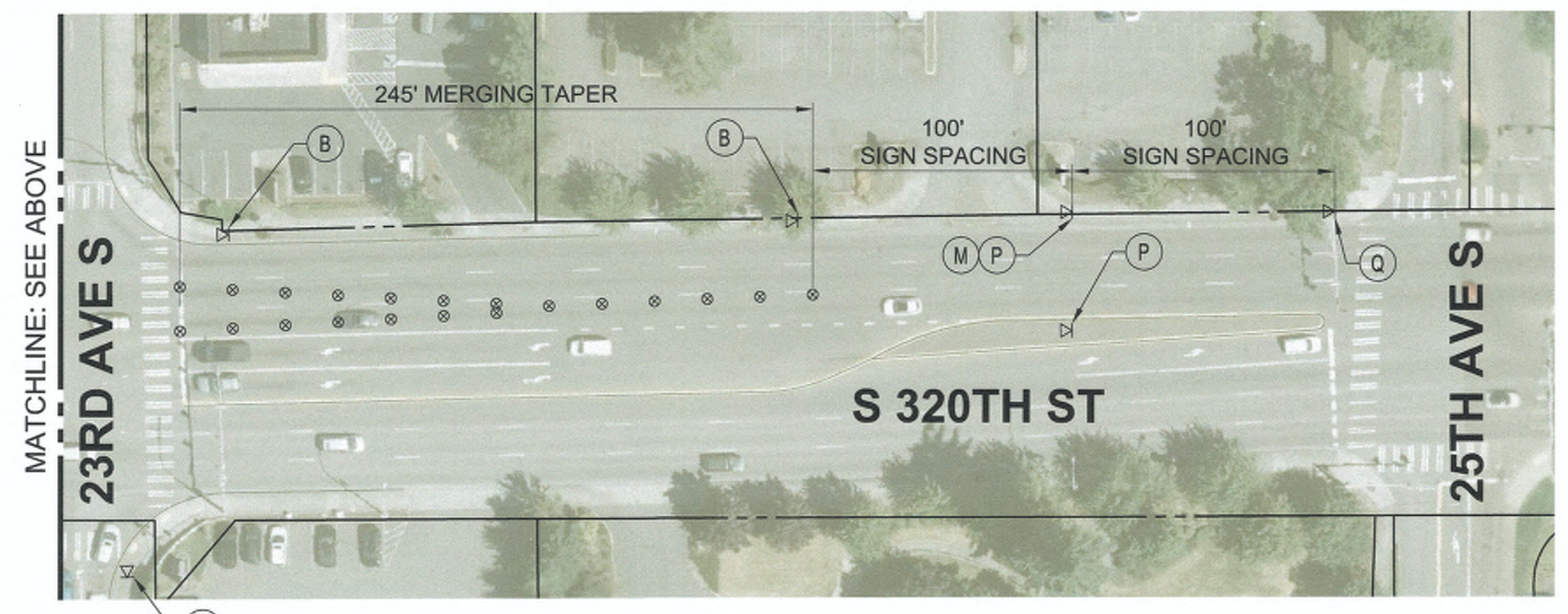


LEGEND

- ⊗ BARREL
- ↔ PEDESTRIAN DETOUR
- ▨ WORK ZONE
- ▬ BARRIER
- ⚡ SIGN
- ⓧ SIGN DESIGNATION, SEE TCD01
- ➡ SEQUENTIAL ARROW BOARD
- EXISTING ROW

GENERAL NOTES

1. THIS APPROVED TRAFFIC CONTROL PLAN IS AVAILABLE FOR CONTRACTOR USE AND BASED ON ONE WAY OF CONSTRUCTING THE PROJECT. IF THE CONTRACTOR DETERMINES THAT THEIR SCHEDULE AND SEQUENCE OF WORK ACTIVITIES DIFFER FROM THE TRAFFIC CONTROL SHOWN, THE CONTRACTOR MUST SUBMIT REVISED PROJECT SPECIFIC TRAFFIC CONTROL PLANS TO THE CITY FOR APPROVAL.
2. ROADWORK AHEAD SIGNS SHALL BE PLACED 350' FROM STOP BAR ON ROADWAYS ENTERING CONSTRUCTION ZONE BETWEEN WARNING SIGNS ON S 320TH ST.
3. TEMPORARY LANE WIDTHS ARE MEASURED FROM EDGE OF CHANNELIZING DEVICE TO EDGE OF CHANNELIZING DEVICE.
4. FOR PED DETOUR SEE SHEETS PTC01 AND PTC02.



NOTES

1. THIS PLAN TO BE IMPLEMENTED ONLY DURING THE HOURS OF 10PM TO 5AM FOR THE CONSTRUCTION OF THE MAST ARMS AND SIGNAL TURN ON.
2. CONTRACTOR TO COORDINATE WITH SOUND TRANSIT'S CONTRACTOR FOR ACCESS TO THEIR SITE FROM S 320TH ST DURING THIS TIME.



Z:\2100001-2109999\2100739 S_320th St & 21st Ave Signal Upgrades\CAD\Sheets\320-TC.dwg
mibaev Nov 30, 2023 4:45pm

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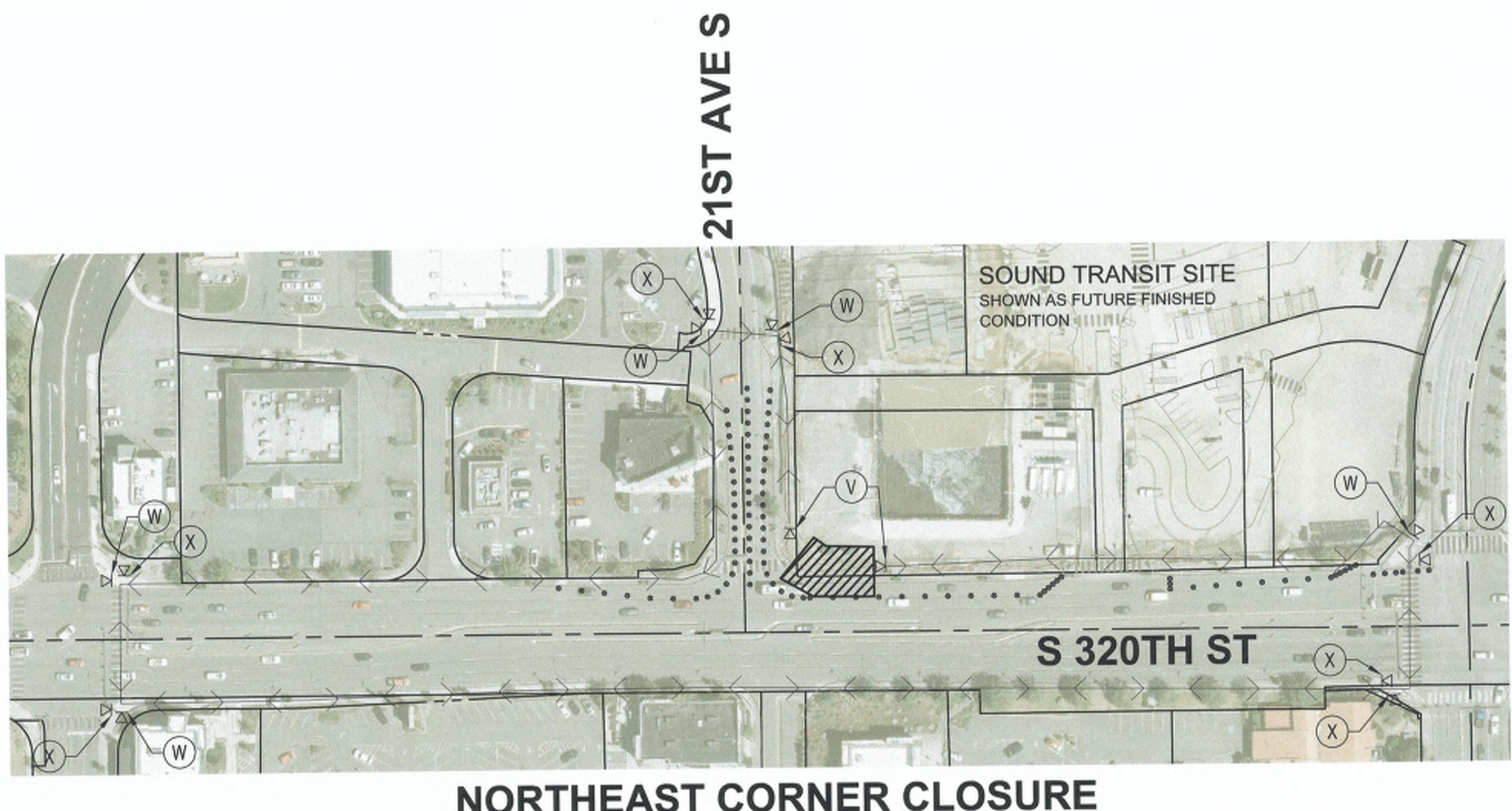


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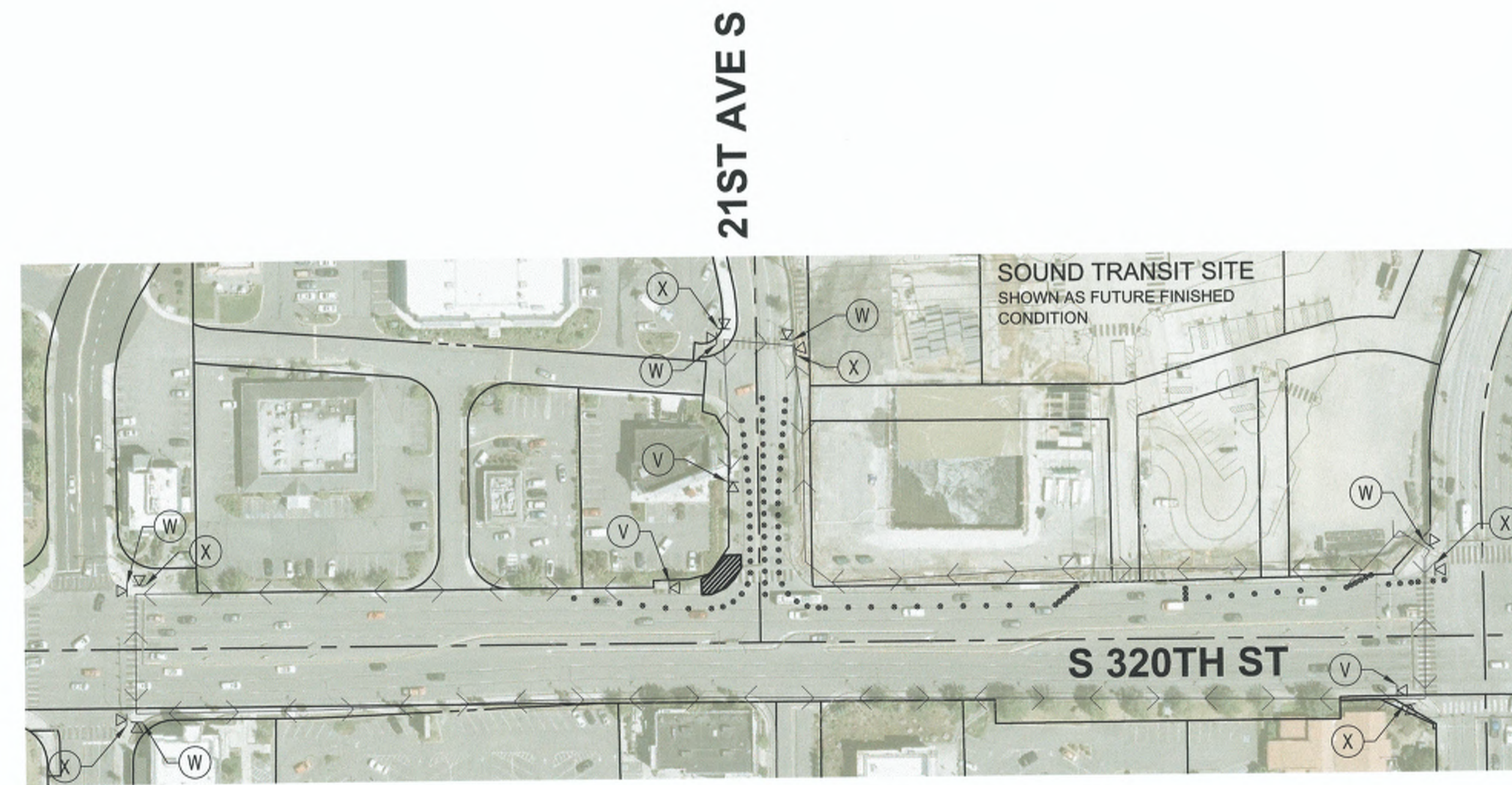
21ST AVE S AND S 320TH ST
TRAFFIC CONTROL PLAN
INTERSECTION CLOSURE DETOUR

CITY PROJECT #:
36225
SHEET
TC09
27 OF 31

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Nov 30, 2023 - 4:45pm
michaelv



NORTHEAST CORNER CLOSURE



NORTHWEST CORNER CLOSURE

- LEGEND**
- ⊗ BARREL
 - ↔ PEDESTRIAN DETOUR
 - ▨ WORK ZONE
 - BARRIER
 - ⊠ SIGN
 - ⊙ SIGN DESIGNATION, SEE TCD01
 - ↔ SEQUENTIAL ARROW BOARD
 - EXISTING ROW

- NOTES**
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 3. TEMPORARY LANE WIDTHS ARE MEASURED FROM EDGE OF CHANNELIZING DEVICE TO EDGE OF CHANNELIZING DEVICE.
 4. SEE TCD01 FOR TRAFFIC SIGNAGE DETAILS.
 5. ONLY ONE CORNER MAY BE CLOSED FOR CONSTRUCTION AT A TIME, SEE SHEETS TC04-TC07.



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NO.	DATE	REVISION

21ST AVE S AND S 320TH ST

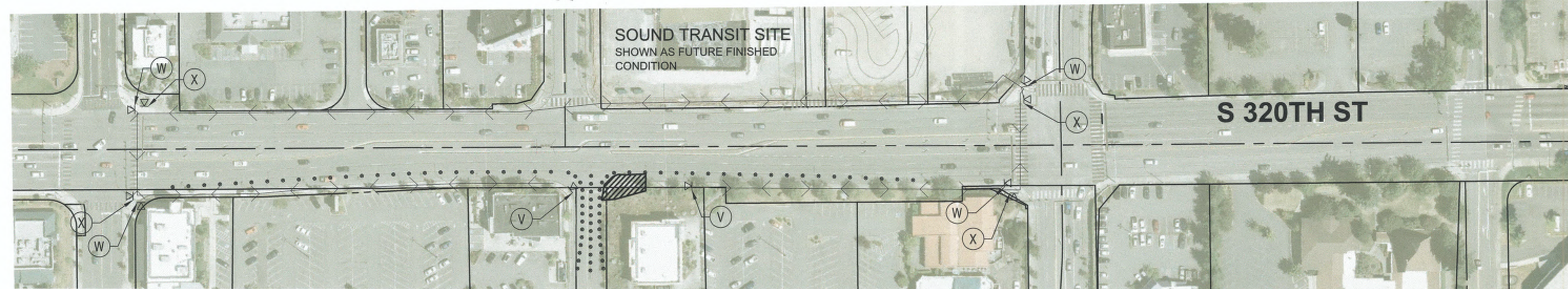
PEDESTRIAN TRAFFIC CONTROL PLAN

NORTH CORNERS

CITY PROJECT #:	36225
SHEET	PTC01
	28 OF 31

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21ST AVE S



SOUTHEAST CORNER

21ST AVE S



SOUTHWEST CORNER

LEGEND

- ⊗ BARREL
- ↔ PEDESTRIAN DETOUR
- ▭ WORK ZONE
- ▬ BARRIER
- ⚡ SIGN
- ⊗ SIGN DESIGNATION, SEE TCD01
- ↔ SEQUENTIAL ARROW BOARD
- EXISTING ROW

NOTES

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4. SEE TCD01 FOR TRAFFIC SIGNAGE DETAILS.
5. ONLY ONE CORNER MAY BE CLOSED FOR CONSTRUCTION AT A TIME, SEE SHEETS TC04-TC07.



NOT TO SCALE

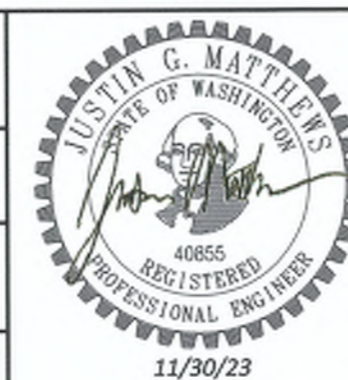
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Nov 30, 2023 - 4:45pm michaels

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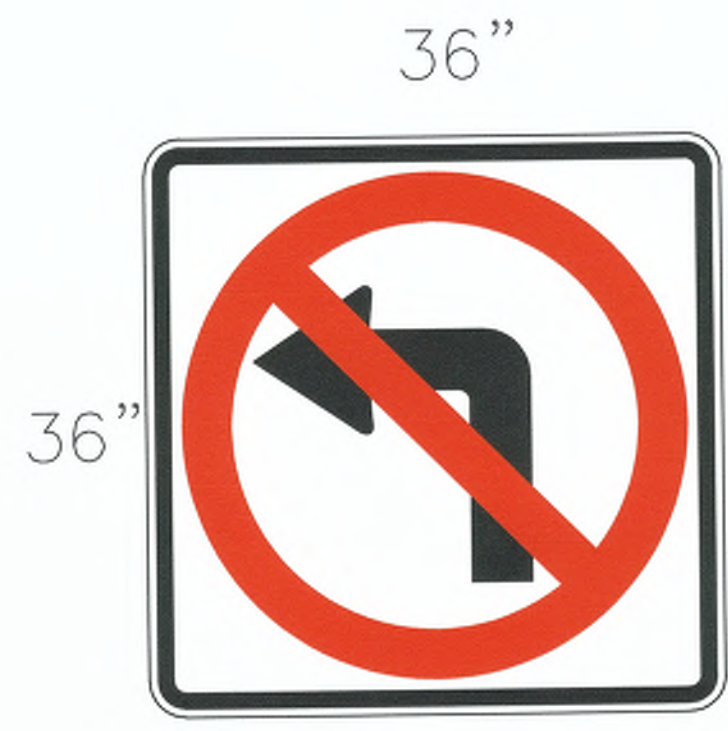
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21ST AVE S AND S 320TH ST

PEDESTRIAN TRAFFIC CONTROL PLAN
SOUTH CORNERS

CITY PROJECT #:	36225
SHEET	PTC02
	29 OF 31



R3-2
A
BORDER
R=1.5"
TH=0.63"
IN=0.47"



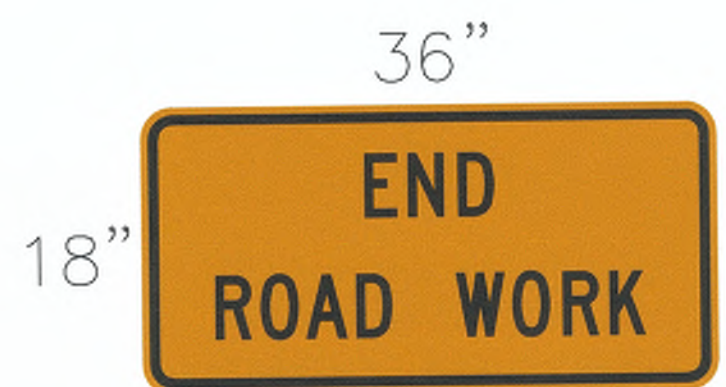
R3-7R
B
BORDER
R=1.13"
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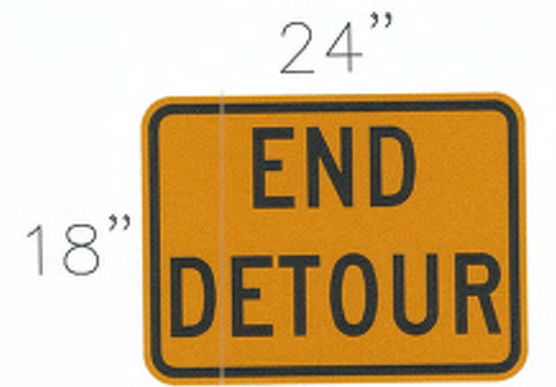
R3-7
C
BORDER
R=1.13"
TH=0.63"
IN=0.38"



R11-2
D
BORDER
R=1.13"
TH=0.63"
IN=0.38"



G20-2
E
BORDER
R=1.5"
TH=0.63"
IN=0.47"



M4-8A
F
BORDER
R=1.5"
TH=0.63"
IN=0.47"



M4-9B
G
BORDER
R=1.5"
TH=0.63"
IN=0.47"



M4-9BR
H
BORDER
R=1.5"
TH=0.63"
IN=0.47"



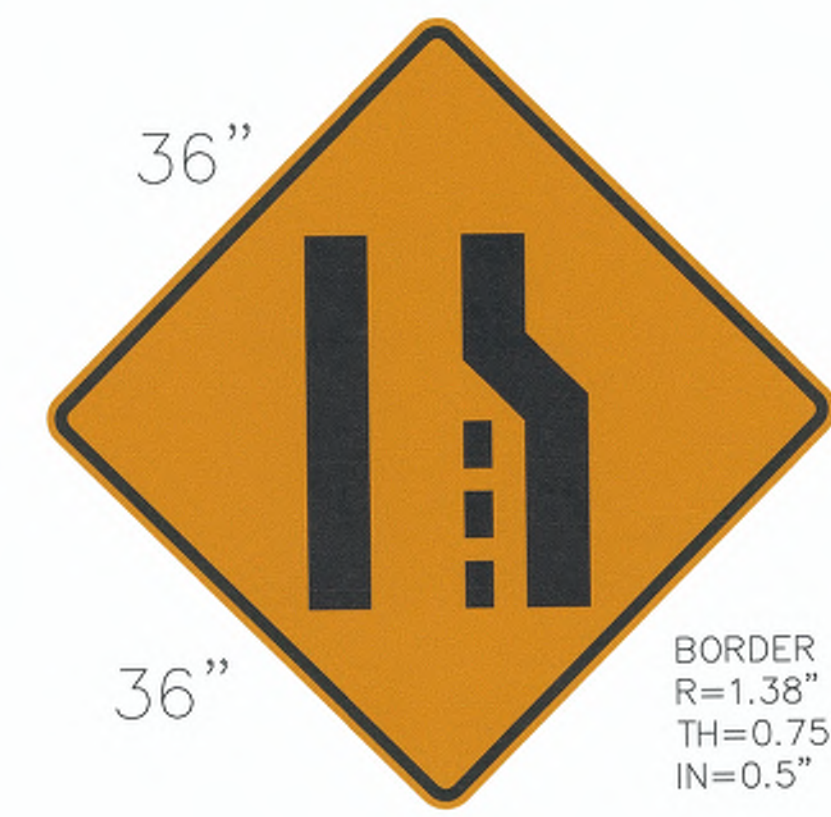
M4-9B MOD
I
BORDER
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TH=0.63"
IN=0.47"



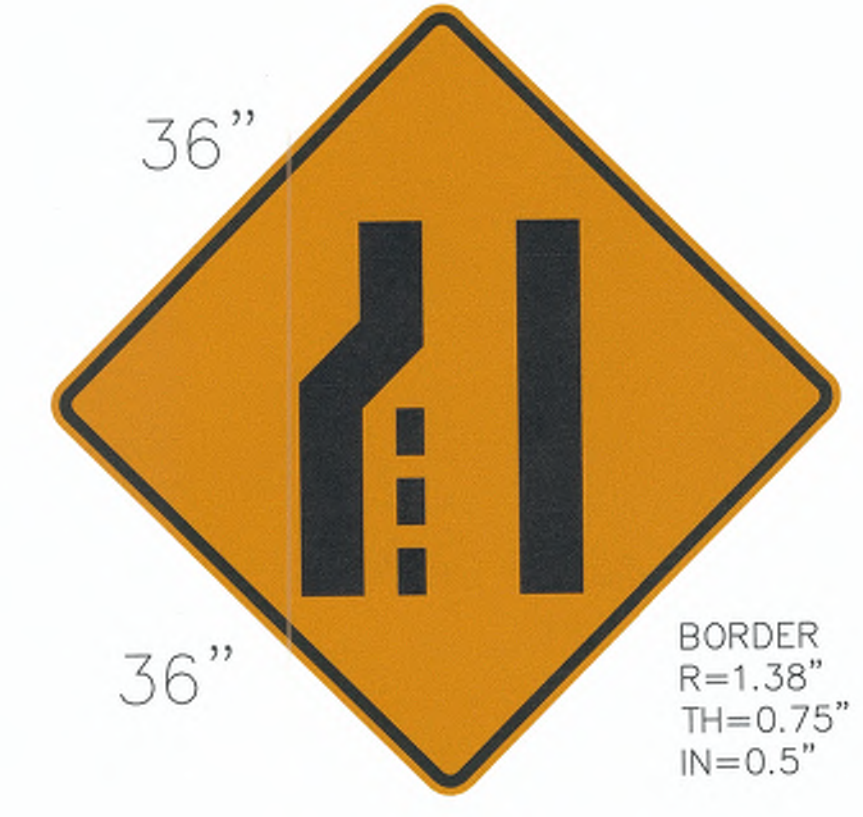
M4-10L
J
BORDER
R=1.5"
TH=0.63"
IN=0.47"



M4-10R
K



W4-2R
L
BORDER
R=1.38"
TH=0.75"
IN=0.5"



W4-2L
M
BORDER
R=1.38"
TH=0.75"
IN=0.5"



W9-3
N
BORDER
R=1.38"
TH=0.75"
IN=0.5"



W20-1
O
BORDER
R=1.38"
TH=0.75"
IN=0.5"



W20-2
P
BORDER
R=1.38"
TH=0.75"
IN=0.5"



W20-3
Q
BORDER
R=1.38"
TH=0.75"
IN=0.5"



W20-5R
R
BORDER
R=1.38"
TH=0.75"
IN=0.5"



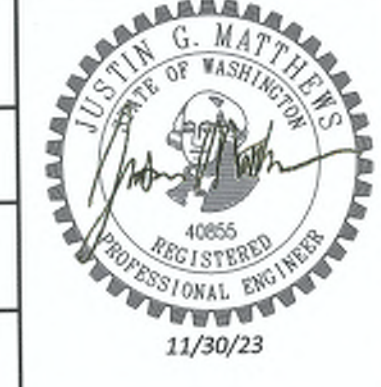
W20-5L
S
BORDER
R=1.38"
TH=0.75"
IN=0.5"

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mishoel
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REVIEWED: TCG
APPROVED: JGM



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21ST AVE S AND S 320TH ST
TRAFFIC CONTROL PLAN DETAILS

CITY PROJECT #: 36225
SHEET TCD01
30 OF 31

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R3-1
T
BORDER
R=1.5"
TH=0.63"
IN=0.47"

TEMPORARY PEDESTRIAN DETOUR SIGNS



R9-9
V
BORDER
R=1.13"
TH=0.63"
IN=0.38"



M4-9B
W
BORDER
R=1.5"
TH=0.63"
IN=0.47"



M4-9BR
X
BORDER
R=1.5"
TH=0.63"
IN=0.47"

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REVIEWED: TCG
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21ST AVE S AND S 320TH ST
TRAFFIC CONTROL PLAN DETAILS

CITY PROJECT #:	36225
SHEET	TCD02
31	OF 31