

# CITYWIDE PEDESTRIAN SAFETY IMPROVEMENTS

## FEDERAL WAY, WA

### PROJECT # 36234

**PROJECT TEAM:**

**OWNER**  
 CITY OF FEDERAL WAY  
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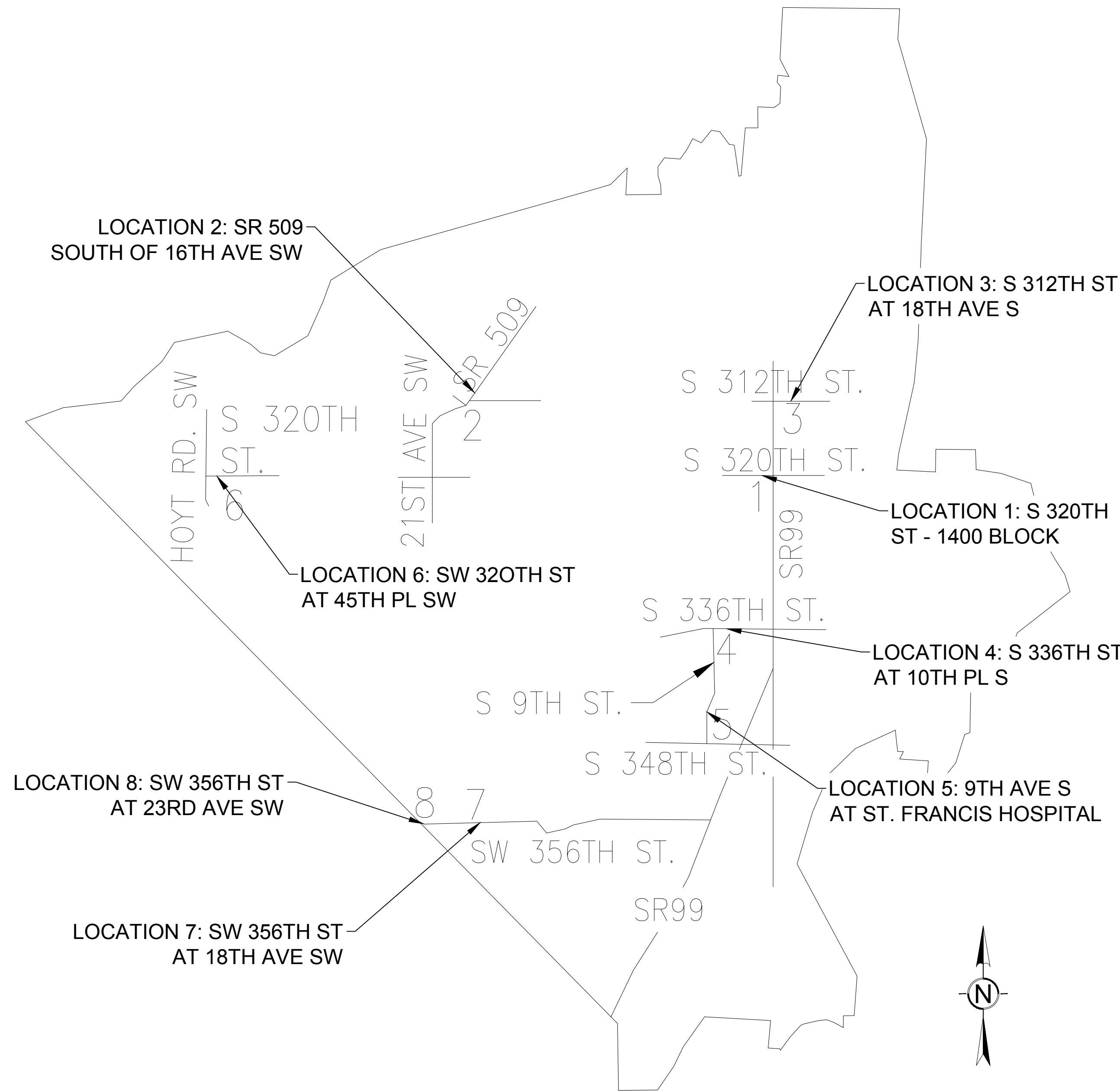
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**SURVEYOR**  
 LANKTREE LAND SURVEYING, INC.  
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**SURVEY DATUM:**

BASIS NAD83(2011) DATUM PER WASHINGTON STATE REFERENCE NETWORK(WSRN)  
 BASIS NAD83(2011) DATUM WAS ESTABLISHED BY HOLDING WSRN OBSERVATIONS ON MONUMENTS, SAID DIMENSIONS AS SHOWN ON SURVEY.

**VERTICAL DATUM (NGVD29)**  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) BASED ON CITY OF FEDERAL WAY SURVEY CONTROL MONUMENT FW-101, BEING A MONUMENT IN CASE AT THE INTERSECTION OF SW 320TH ST. AND 8TH AVE. S. ELEVATION: 421.83 FEET.



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NO.	DATE	REVISION

## CITYWIDE PEDESTRIAN SAFETY

COVER SHEET

CITY PROJECT #:  
 36234

SHEET  
 C-001

1 OF 37

**LEGENDS:**

**EXISTING FEATURES**

(NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP)

- SURVEY MONUMENT (AS NOTED)
- SECTION CORNER (AS NOTED)
- SET REBAR/CAP (LS#45789 OR #41282)
- LUMINAIRE (LUM.)
- YARD LIGHT
- POWER METER (PM)
- POWER POLE (PP)
- JUNCTION BOX (AS NOTED)
- POWER OUTLET
- TELEPHONE MANHOLE (TM)
- TELEPHONE RISER (TR)
- CATCH BASIN (CB)
- STORM MANHOLE (SDMH)
- STORM CLEANOUT (SDCO)
- SANITARY SEWER MANHOLE (SSMH)
- SANITARY CLEANOUT (SSCO)
- GAS VALVE (GV)
- WATER VALVE (WV)
- FIRE HYDRANT (FH)
- WATER METER (WM)
- BLOW-OFF / AIRVAC
- SIGN
- IRRIGATION VALVE (IV)
- DIRECTIONAL ARROW
- LANDSCAPE SPRINKLER
- CHAIN LINK FENCE
- WOOD FENCE
- WATER LINE
- GAS LINE
- TELEPHONE LINE (OH) OR (UG)
- POWER LINE (OH) OR (UG)
- STORM LINE
- SEWER LINE
- ROCKERY
- KEYSTONE WALL
- DECIDUOUS TREE
- CONIFEROUS TREE
- TREE DRIPLINE
- CONCRETE
- ASPHALT
- BUILDING LINE

**PROPOSED FEATURES**

- CLEARING LIMITS
- REMOVE ASPHALT PAVEMENT
- SAWCUT
- REMOVE EXISTING CURB
- REMOVE CEMENT CONCRETE SIDEWALK
- REMOVE EXISTING TREE
- RIGHT-OF-WAY LINE
- ROAD CENTERLINE
- CURB RAMP PAY LIMITS
- HMA PAVEMENT
- HMA PAVEMENT BACKFILL
- CEMENT CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE (YELLOW)
- DETECTABLE WARNING SURFACE (BLACK)
- SEEDED LAWN
- BARK MULCH
- EXTRUDED CURB
- CURB & GUTTER
- SIGN
- TYPE 2Y RPM
- 28" TUBULAR MARKER
- SIGNAL POLE (REFER TO RRFB PLANS)
- RRFB POLE (REFER TO RRFB PLANS)
- JUNCTION BOX (REFER TO RRFB PLANS)

**ABBREVIATIONS**

AC	ACRE	G	GAS	R	RADIUS
APPROX	APPROXIMATELY	GRVL	GRAVEL	RCW	REVISED CODE OF WASHINGTON
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	GV	GAS VALVE	ROW	RIGHT-OF-WAY
ARCH	ARCHITECTURAL	H	HEIGHT	RT	RIGHT
ASPH	ASPHALT	HDPE	HIGH DENSITY POLYETHYLENE	S	SOUTH
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HMA	HOT MIX ASPHALT	SC	STORM CEPTOR
AVE	AVENUE	HORIZ	HORIZONTAL	SCH	SCHEDULE
BLDG	BUILDING	ID	INSIDE DIAMETER	SD	STORM DRAIN
BMP	BEST MANAGEMENT PRACTICE	IE	INVERT ELEVATION	SDMH	STORM DRAIN MANHOLE
BG	BOTTOM OF GRADE	IN	INCH	SDR	STANDARD DIMENSION RATIO
BTM	BOTTOM OF PIPE	L	LENGTH	SF	SQUARE FEET
BW	BOTTOM OF WALL	LAT	LATITUDE	SPECS	SPECIFICATIONS
€	CENTERLINE	LF	LINEAR FEET	SQ YD	SQUARE YARD
CB	CATCH BASIN	LON	LONGITUDE	SS	SANITARY SEWER
CF	CUBIC FEET	LT	LEFT	SSCO	SANITARY SEWER CLEANOUT
CI	CAST IRON	MAX	MAXIMUM	ST	STREET
CL	CLASS	MH	MANHOLE	STA	STATION
COMP	CORRUGATED METAL PIPE	MIN	MINIMUM	STD	STANDARD
CO	CLEAN OUT	MISC	MISCELLANEOUS	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
COFW	CITY OF FEDERAL WAY	MJ	MECHANICAL JOINT	T	TELEPHONE
CONC	CONCRETE	MON	MONUMENT	TC	TOP OF CURB
CPEP	CORRUGATED POLYETHYLENE PIPE	N	NORTH	TEMP	TEMPORARY
CR	CROWN OF PIPE	NC	NO CURB	TESS	TEMPORARY EROSION & SEDIMENT CONTROL
CSTC	CRUSHED SURFACING TOP COURSE	NO	NO	TG	TOP OF GRADE
DEPT	DEPARTMENT	NTS	NOT TO SCALE	TP	TOP OF PAVEMENT
DI	DUCTILE IRON	OC	ON CENTER	TW	TOP OF WALL
E	EAST	OD	OUTSIDE DIAMETER	TYP	TYPICAL
EA	EACH	OFF	OFFSET	UG	UNDER GROUND
EC	EXTRUDED CURB	PC	POINT OF CURVATURE	UIC	UNDER GROUND INJECTION CONTROL
EG	EXISTING GRADE	PCC	POINT OF COMPOUND CURVE	U.O.N.	UNLESS OTHERWISE NOTED
ELEV	ELEVATION	PI	POINT OF INTERSECTION	UP	UTILITY POLE
EP	EDGE OF PAVEMENT	PL	PROPERTY LINE	V	VERTICAL
ESC	EROSION & SEDIMENT CONTROL	PP	POWER POLE	W	WEST
EXIST	EXISTING	PRC	POINT OF REVERSE CURVE	W/	WITH
FFE	FINISH FLOOR ELEVATION	PROP	PROPOSED	WAC	WASHINGTON ADMINISTRATIVE CODE
FG	FINISHED GRADE	PT	POINT OF TANGENCY	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
FH	FIRE HYDRANT	PVC	POLYVINYL CHLORIDE	WV	WATER VALVE
FL	FLANGED	PVMT	PAVEMENT	YD	YARD DRAIN



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REVIEWED: JBD  
APPROVED:



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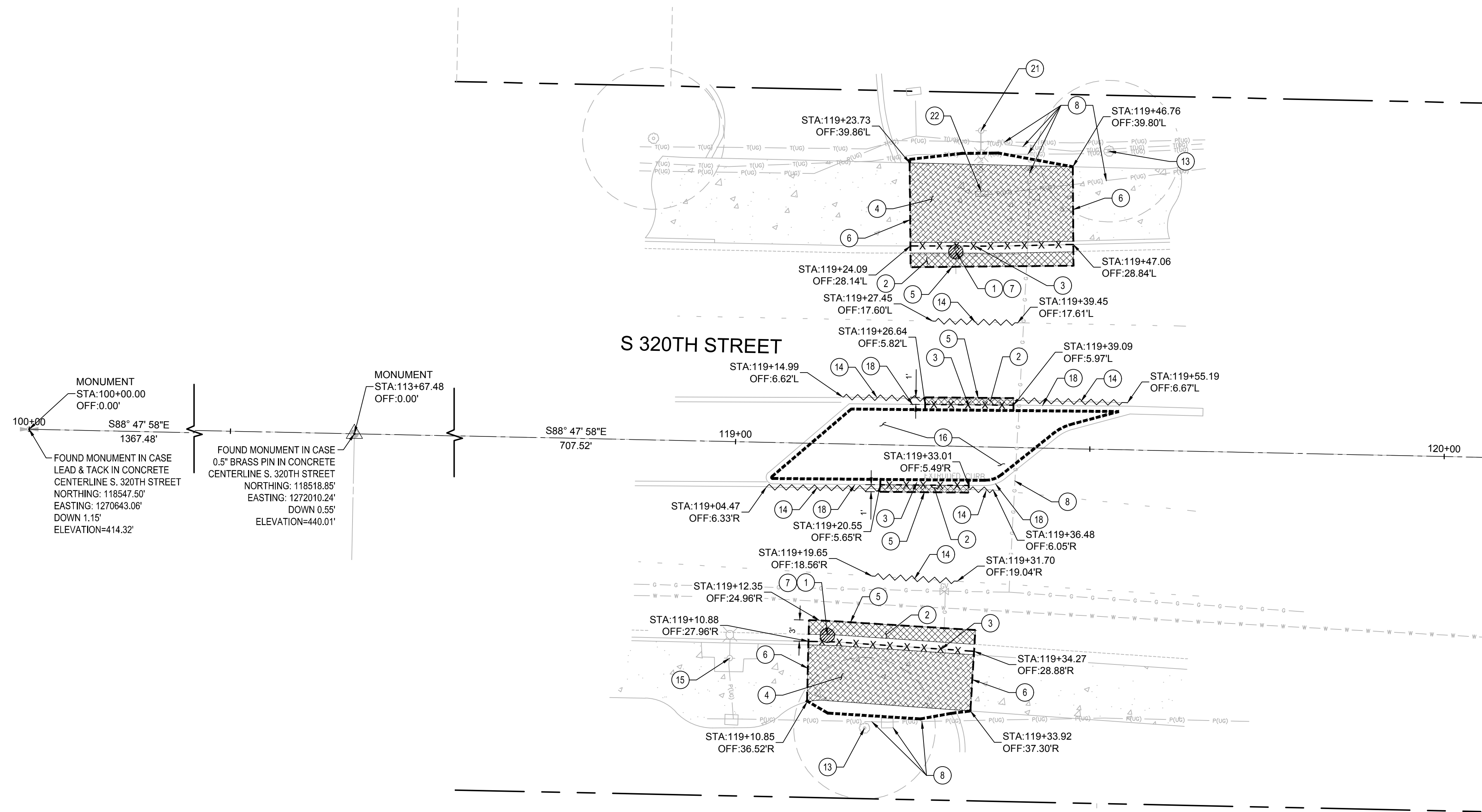
**CITYWIDE PEDESTRIAN SAFETY**

LEGEND AND ABBREVIATIONS

CITY PROJECT #: 36234  
SHEET C-002  
2 OF 37

**SITE PREPARATION NOTES:**

- 1 INSTALL INLET PROTECTION PER WSDOT STD PLAN I-40.20-00.
- 2 REMOVE EXISTING ASPHALT PAVEMENT TO BASE ROCK. IF BASE ROCK IS UNSUITABLE FOR REGRADING AND COMPACTION REMOVE FULL PAVEMENT SECTION TO SUBGRADE.
- 3 REMOVE EXISTING CURB OR CURB AND GUTTER.
- 4 REMOVE EXISTING CEMENT CONCRETE SIDEWALK.
- 5 SAWCUT, LEAVE NEAT UNIFORM EDGE.
- 6 SAWCUT AT NEAREST JOINT, LEAVE NEAT UNIFORM EDGE. STATIONS SHOWN ON PLAN ARE APPROXIMATE.
- 7 PROTECT EXISTING STRUCTURE AND ASSOCIATED LINES.
- 8 PROTECT EXISTING UTILITY.
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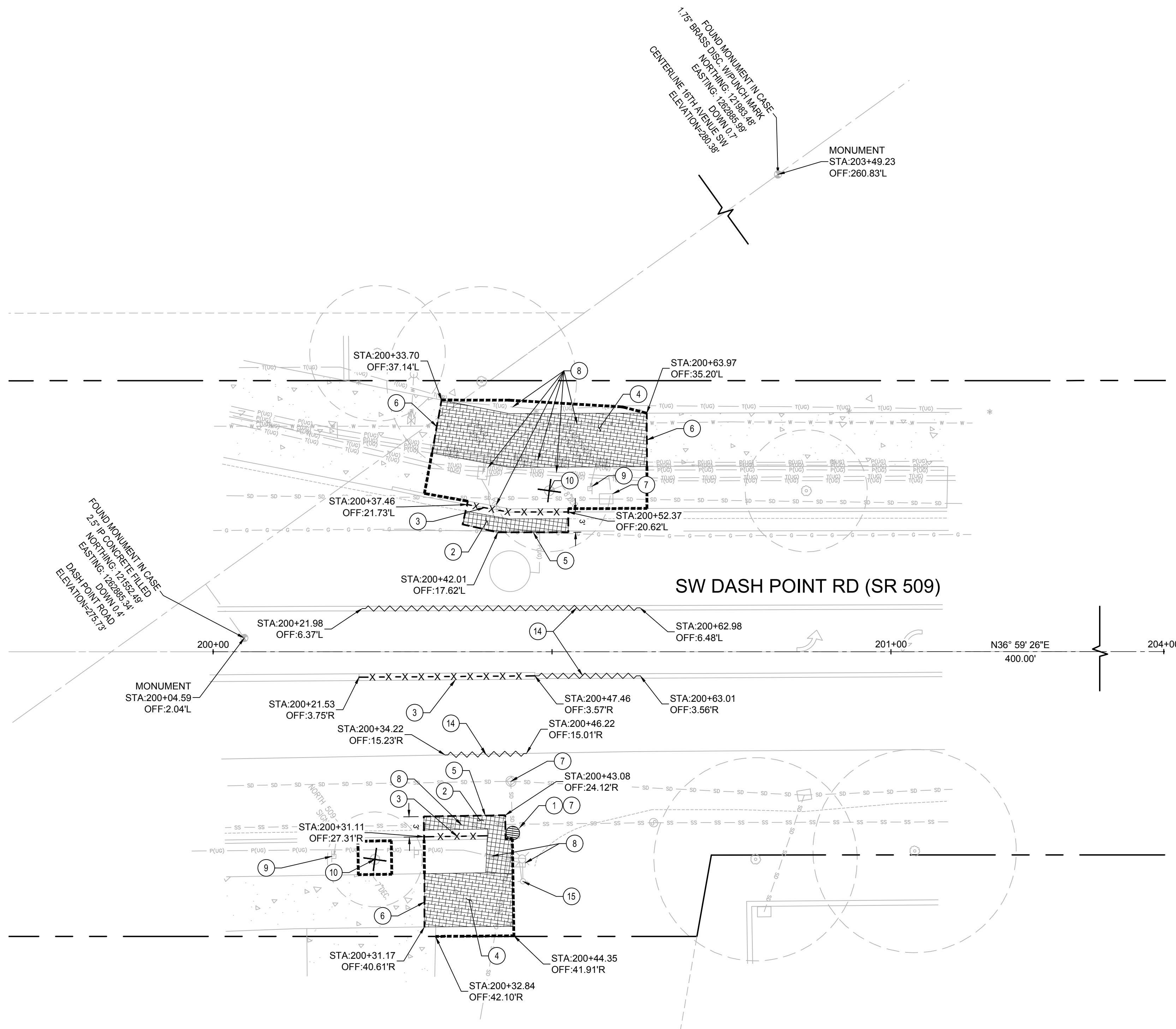
**CITYWIDE PEDESTRIAN SAFETY**  
SITE PREPARATION AND SURVEY CONTROL PLAN  
LOCATION 1: S 320TH ST - 1400 BLOCK

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CITY PROJECT #: 36234  
SHEET C-101  
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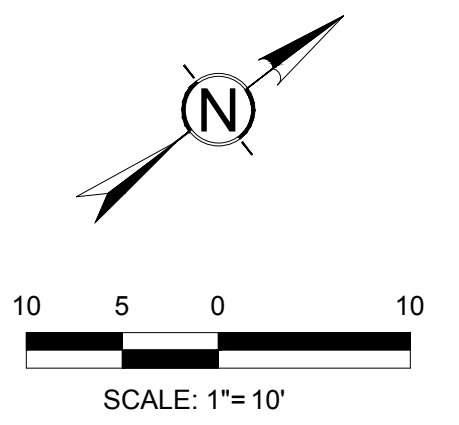
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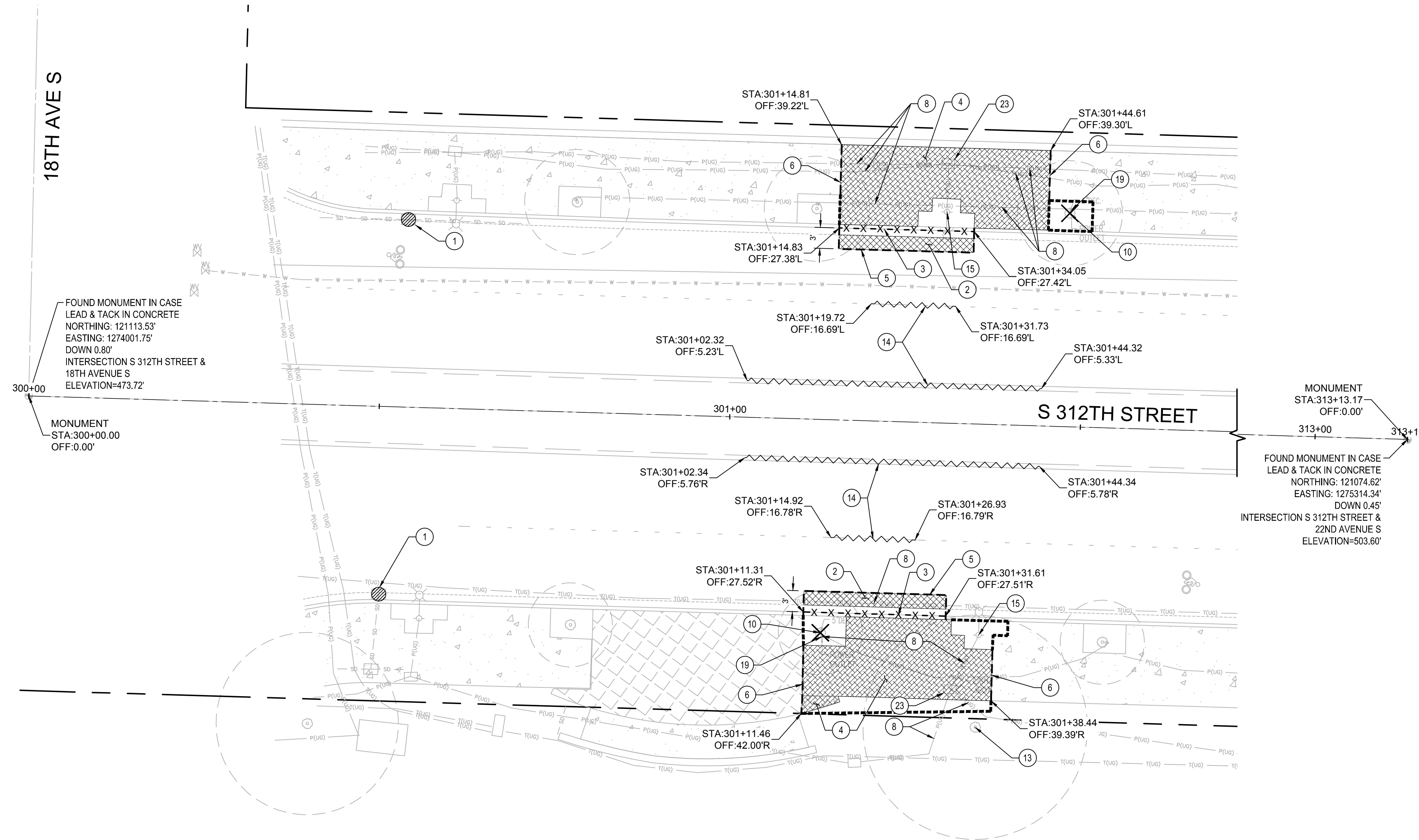
**CITYWIDE PEDESTRIAN SAFETY**  
SITE PREPARATION AND SURVEY CONTROL PLAN  
LOCATION 2: SR 509 SOUTH OF 16TH AVE SW

CITY PROJECT #:  
**36234**  
SHEET  
**C-102**  
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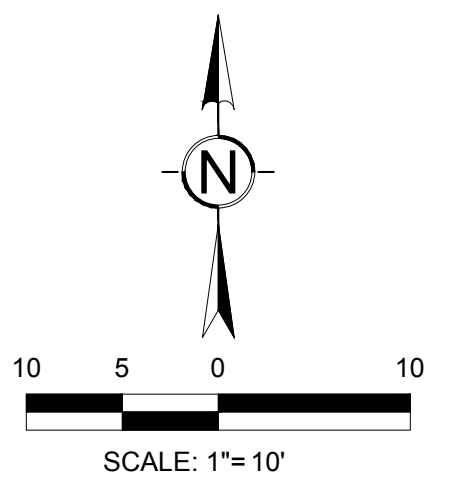
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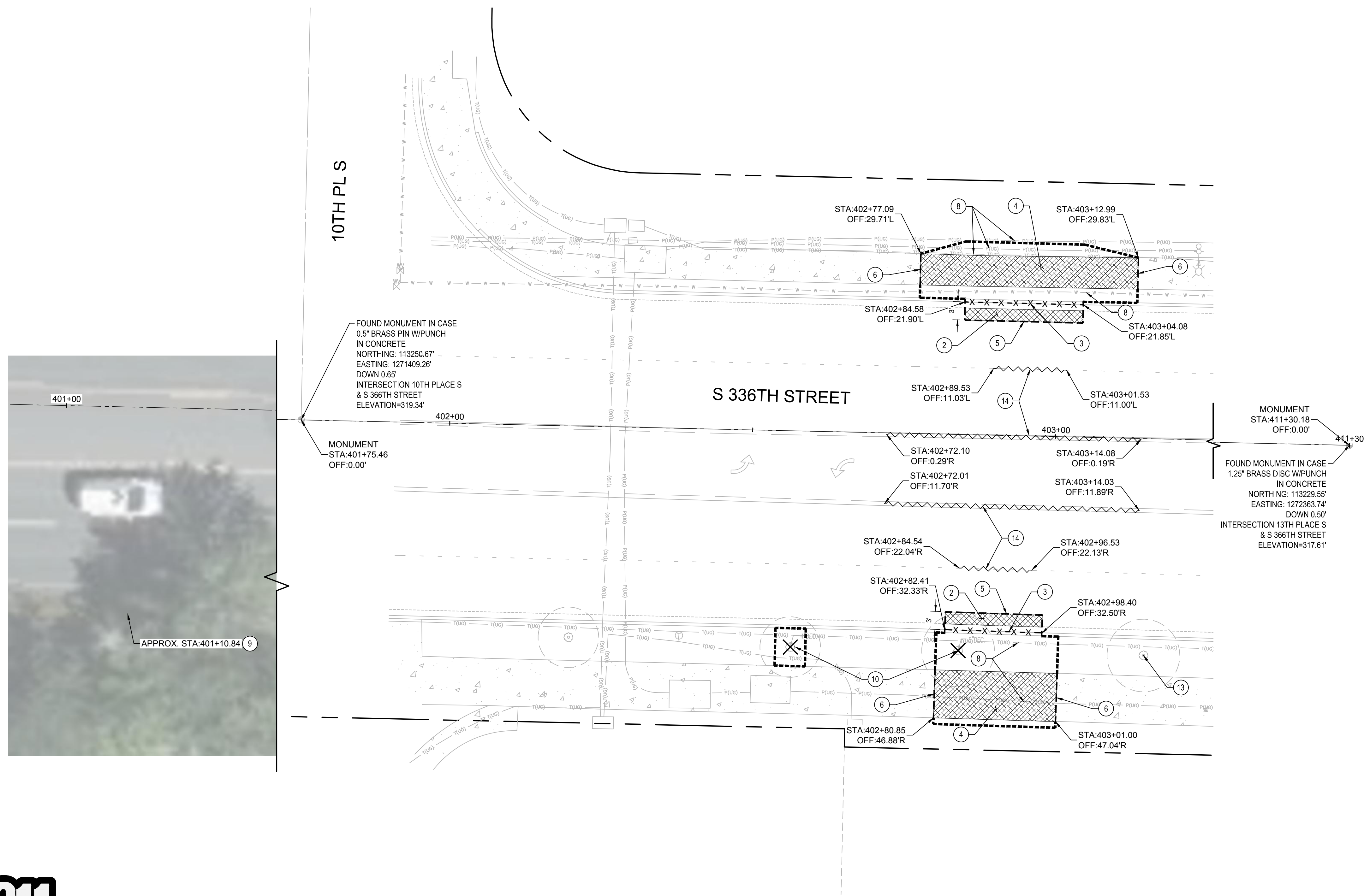
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LOCATION 3: S 312TH ST AT 18TH AVE S

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SHEET C-103  
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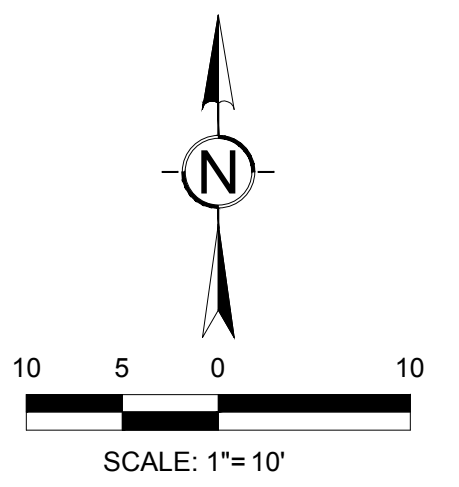
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10TH PLS

S 336TH STREET



**RFB #23-008**

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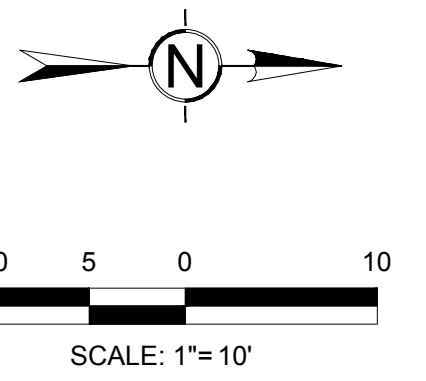
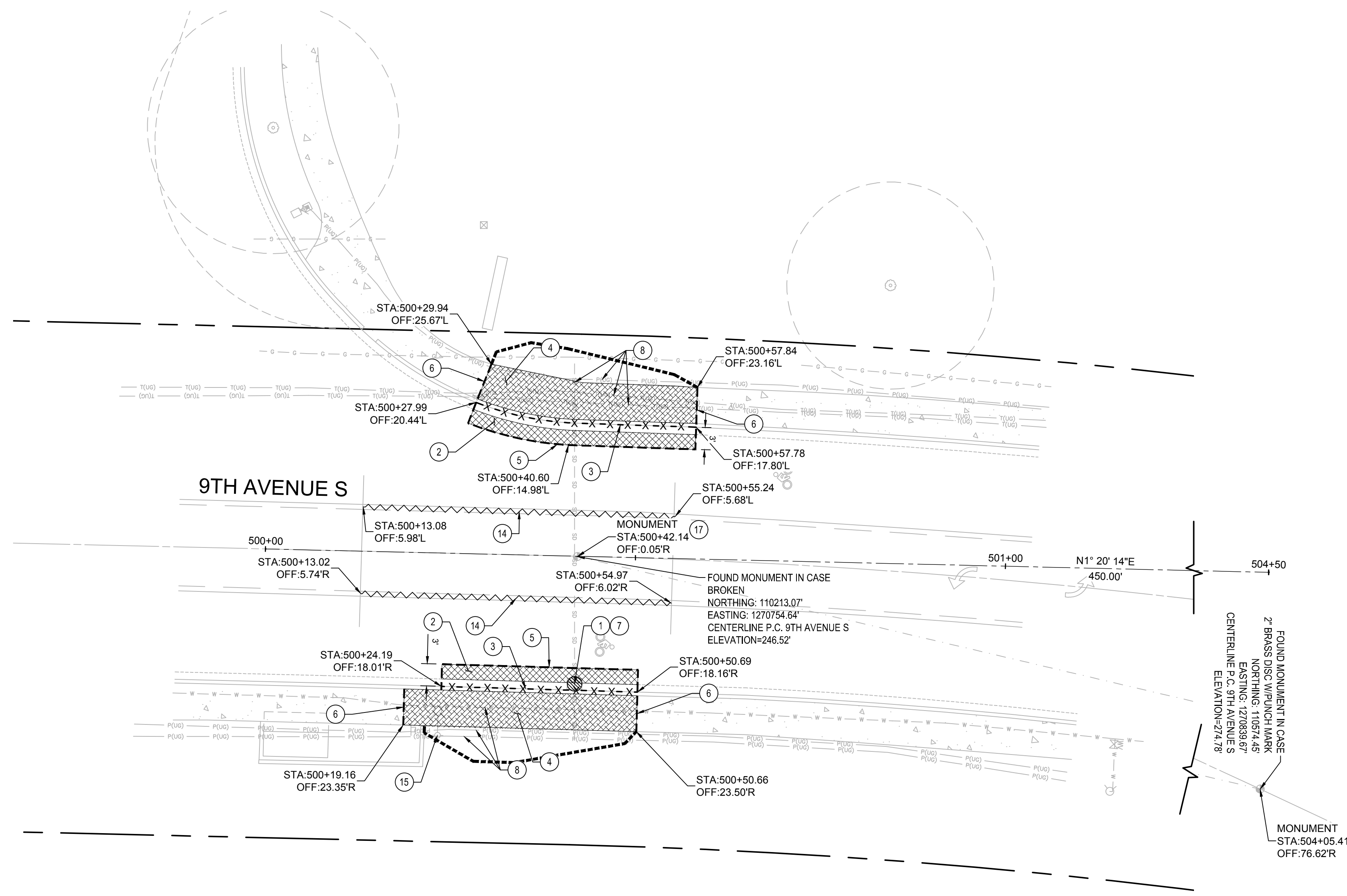
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 SITE PREPARATION AND SURVEY CONTROL PLAN  
 LOCATION 4: S 336TH ST AT 10TH PL S

CITY PROJECT #:	36234
SHEET	C-104
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- 11 RELOCATE EXISTING BOULDERS. REFER TO PAVING AND GRADING PLANS.
- 12 NOT USED.
- 13 PROTECT EXISTING TREE TO REMAIN.
- 14 REMOVE EXISTING PAVEMENT MARKING.
- 15 PROTECT EXISTING POLE.
- 16 REMOVE VEGETATION AND SOIL FROM EXISTING ISLAND.
- 17 PROTECT EXISTING MONUMENT. ADJUST CASE TO GRADE.
- 18 PRESERVE AND PROTECT EXISTING ISLAND CURB.
- 19 REMOVE POWER OUTLET AND CAP EXISTING LINE.
- 20 PROTECT EXISTING ROCKERY TO REMAIN.
- 21 REMOVE EXISTING LIGHT POLE. REFER TO RRFB PLANS.
- 22 REMOVE EXISTING JUNCTION BOX. REFER TO RRFB PLANS FOR NEW JUNCTION BOX LOCATION.
- 23 REPLACE EXISTING JUNCTION BOX IN PLACE. REFER TO RRFB PLANS.
- 24 PROTECT EXISTING FENCE.



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WWW.BCRADESIGN.COM

DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



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NO.	DATE	REVISION

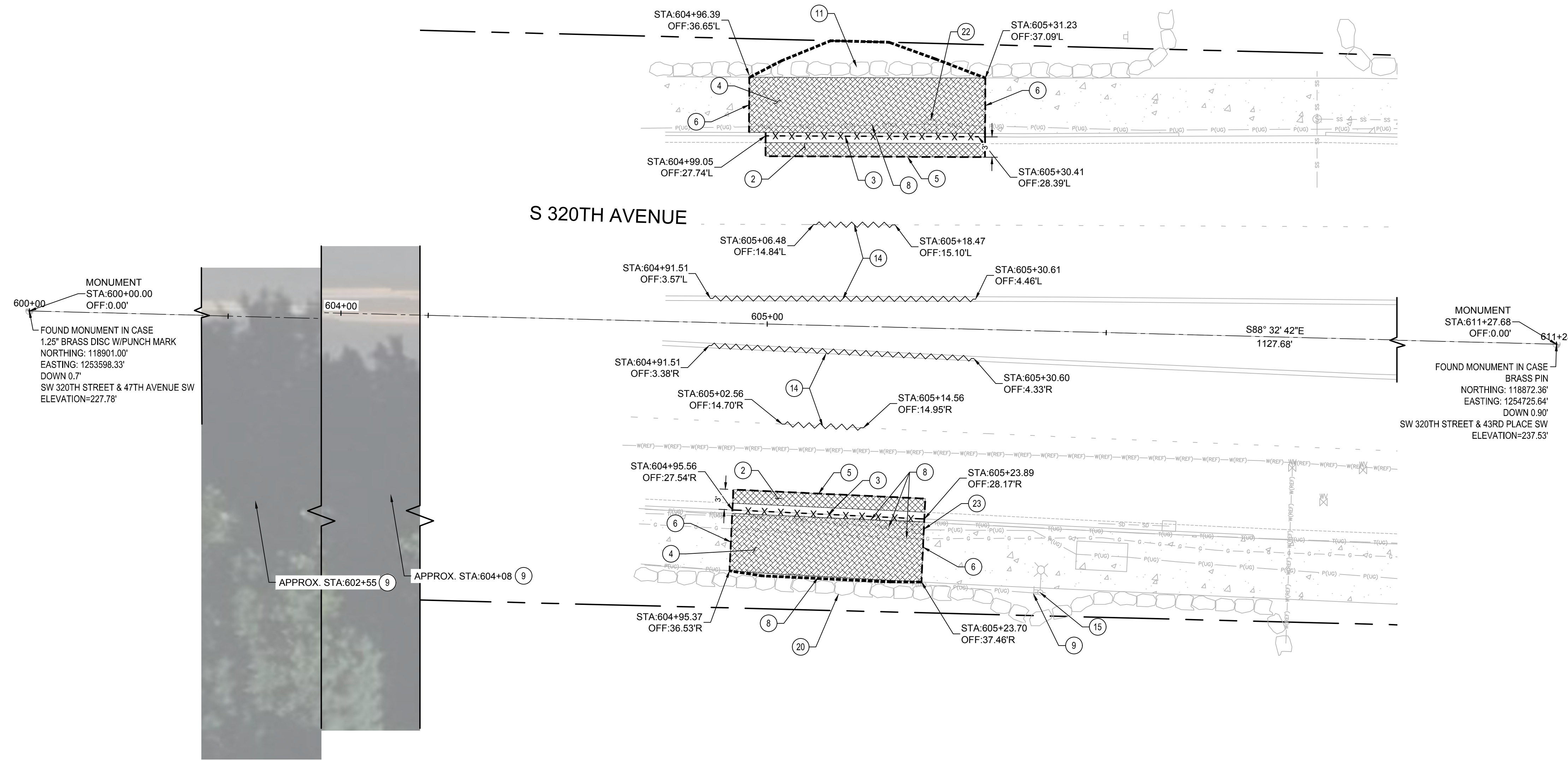
**CITYWIDE PEDESTRIAN SAFETY**  
SITE PREPARATION AND SURVEY CONTROL PLAN  
LOCATION 5: 9TH AVE S AT ST. FRANCIS HOSPITAL

CITY PROJECT #:  
**36234**  
SHEET  
**C-105**  
7 OF 37

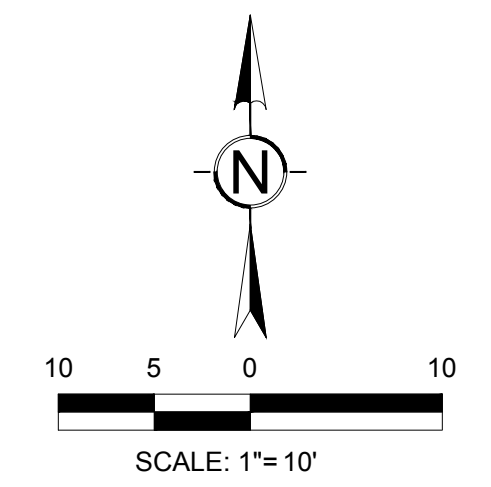
H:\210002\1027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\21027C-105-108.dwg, 2/6/2023

**SITE PREPARATION NOTES:**

- 1 INSTALL INLET PROTECTION PER WSDOT STD PLAN I-40.20-00.
- 2 REMOVE EXISTING ASPHALT PAVEMENT TO BASE ROCK. IF BASE ROCK IS UNSUITABLE FOR REGRADING AND COMPACTION REMOVE FULL PAVEMENT SECTION TO SUBGRADE.
- 3 REMOVE EXISTING CURB OR CURB AND GUTTER.
- 4 REMOVE EXISTING CEMENT CONCRETE SIDEWALK.
- 5 SAWCUT, LEAVE NEAT UNIFORM EDGE.
- 6 SAWCUT AT NEAREST JOINT, LEAVE NEAT UNIFORM EDGE. STATIONS SHOWN ON PLAN ARE APPROXIMATE.
- 7 PROTECT EXISTING STRUCTURE AND ASSOCIATED LINES.
- 8 PROTECT EXISTING UTILITY.
- 9 RELOCATE EXISTING SIGN. REFER TO PAVEMENT MARKING AND SIGNAGE PLANS.
- 10 REMOVE EXISTING TREE.
- 11 RELOCATE EXISTING BOULDERS. REFER TO PAVING AND GRADING PLANS.
- 12 NOT USED.
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- 24 PROTECT EXISTING FENCE.



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WWW.BCRADESIGN.COM

DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



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NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
SITE PREPARATION AND SURVEY CONTROL PLAN  
LOCATION 6: SW 320TH ST AT 45TH PL SW

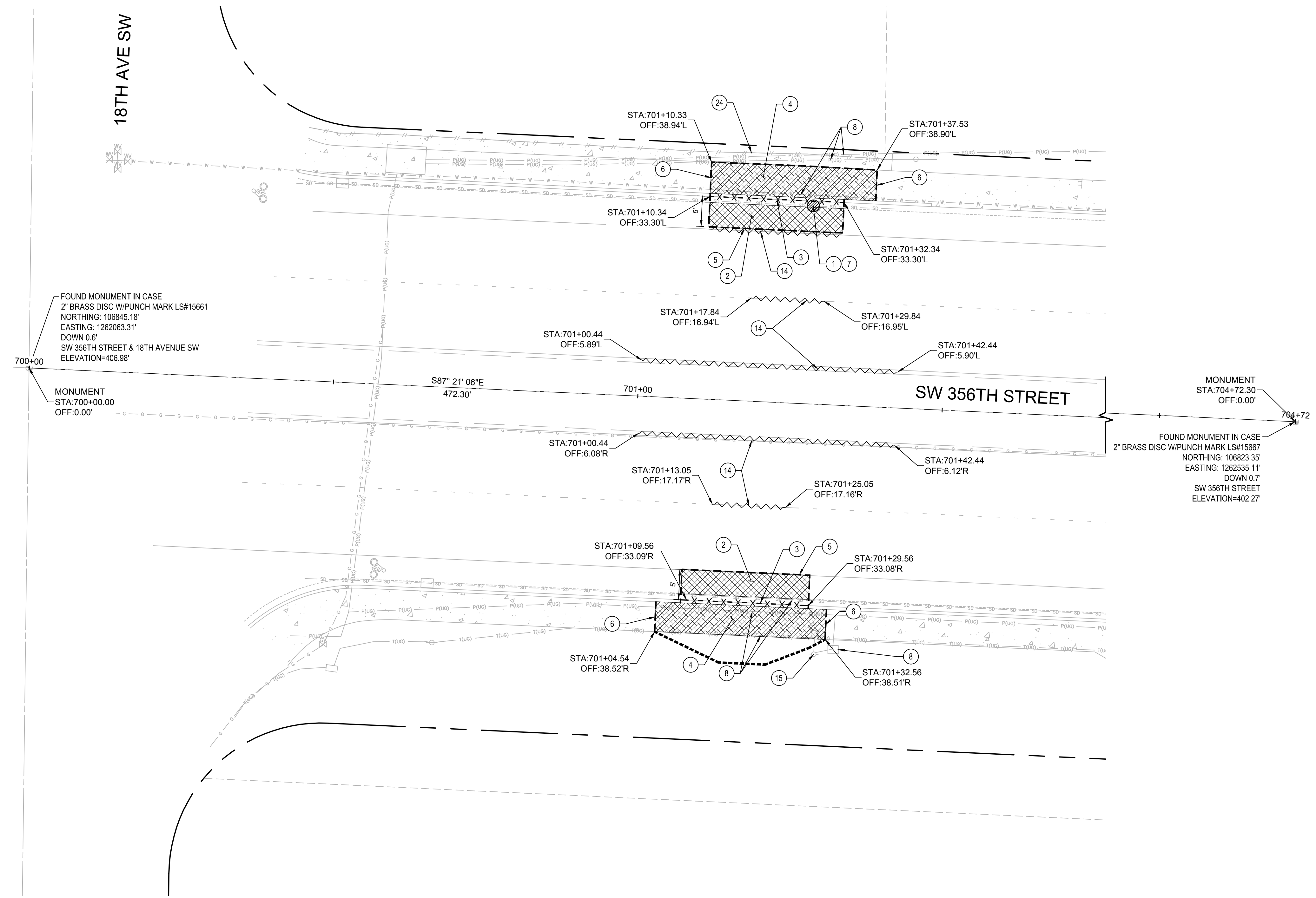
CITY PROJECT #:  
**36234**  
SHEET  
**C-106**  
8 OF 37

H:\210002\1027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\21027C-106-108.dwg, 2/6/2023



**SITE PREPARATION NOTES:**

- 1 INSTALL INLET PROTECTION PER WSDOT STD PLAN I-40.20-00.
- 2 REMOVE EXISTING ASPHALT PAVEMENT TO BASE ROCK. IF BASE ROCK IS UNSUITABLE FOR REGRADING AND COMPACTION REMOVE FULL PAVEMENT SECTION TO SUBGRADE.
- 3 REMOVE EXISTING CURB OR CURB AND GUTTER.
- 4 REMOVE EXISTING CEMENT CONCRETE SIDEWALK.
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- 23 REPLACE EXISTING JUNCTION BOX IN PLACE. REFER TO RRFB PLANS.
- 24 PROTECT EXISTING FENCE.



FOUND MONUMENT IN CASE  
2" BRASS DISC W/PUNCH MARK LS#15661  
NORTHING: 106845.18'  
EASTING: 1262063.31'  
DOWN 0.6'  
SW 356TH STREET & 18TH AVENUE SW  
ELEVATION=406.98'

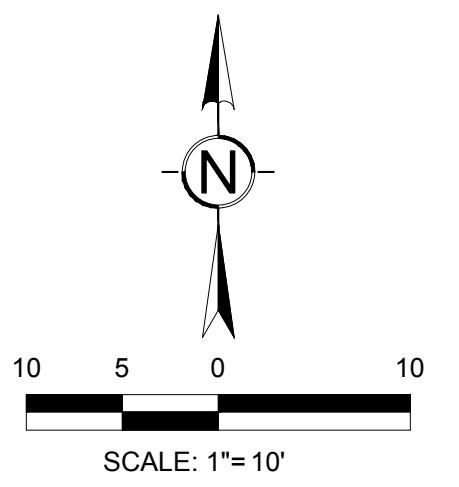
MONUMENT  
STA:700+00.00  
OFF:0.00'

MONUMENT  
STA:704+72.30  
OFF:0.00'

FOUND MONUMENT IN CASE  
2" BRASS DISC W/PUNCH MARK LS#15667  
NORTHING: 106823.35'  
EASTING: 1262535.11'  
DOWN 0.7'  
SW 356TH STREET  
ELEVATION=402.27'



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DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



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NO.	DATE	REVISION

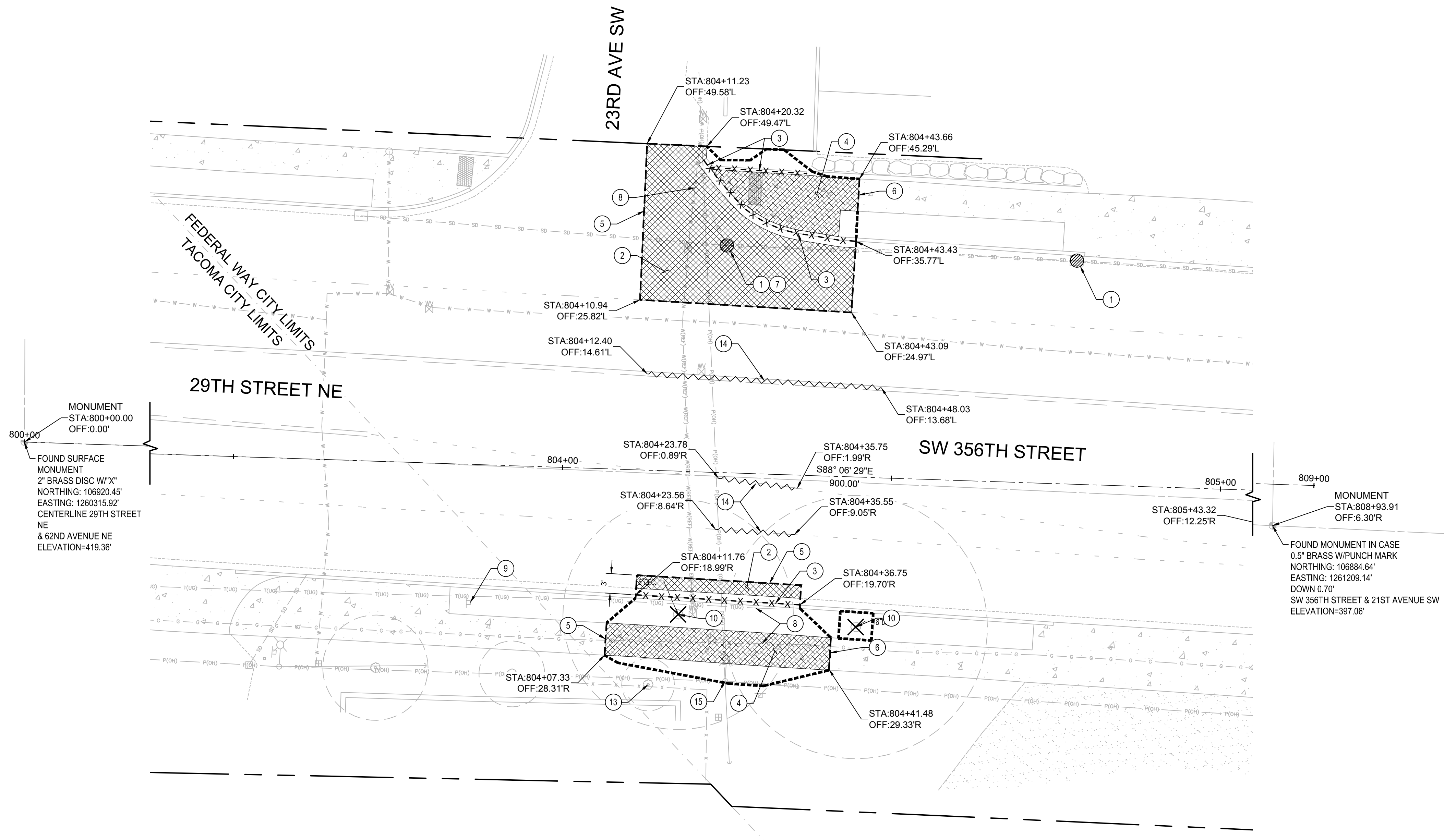
**CITYWIDE PEDESTRIAN SAFETY**  
SITE PREPARATION AND SURVEY CONTROL PLAN  
LOCATION 7: SW 356TH ST AT 18TH AVE SW

CITY PROJECT #:  
36234  
SHEET  
C-107  
9 OF 37

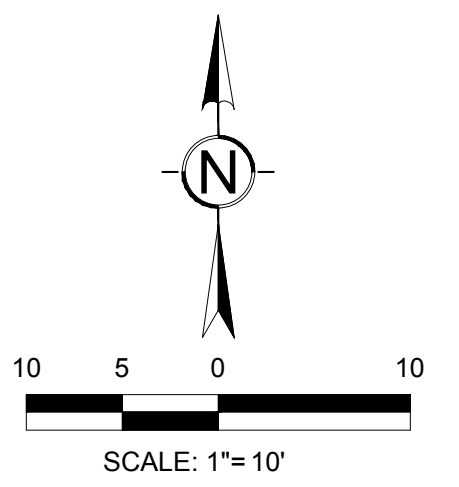
H:\210002\1027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\21027C-105-108.dwg, 2/6/2023

**SITE PREPARATION NOTES:**

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DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



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NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
SITE PREPARATION AND SURVEY CONTROL PLAN  
LOCATION 8: SW 356TH ST AT 23RD AVE SW

CITY PROJECT #:  
**36234**  
SHEET  
**C-108**  
10 OF 37

H:\210002\1027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\21027C-105-108.dwg, 2/6/2023

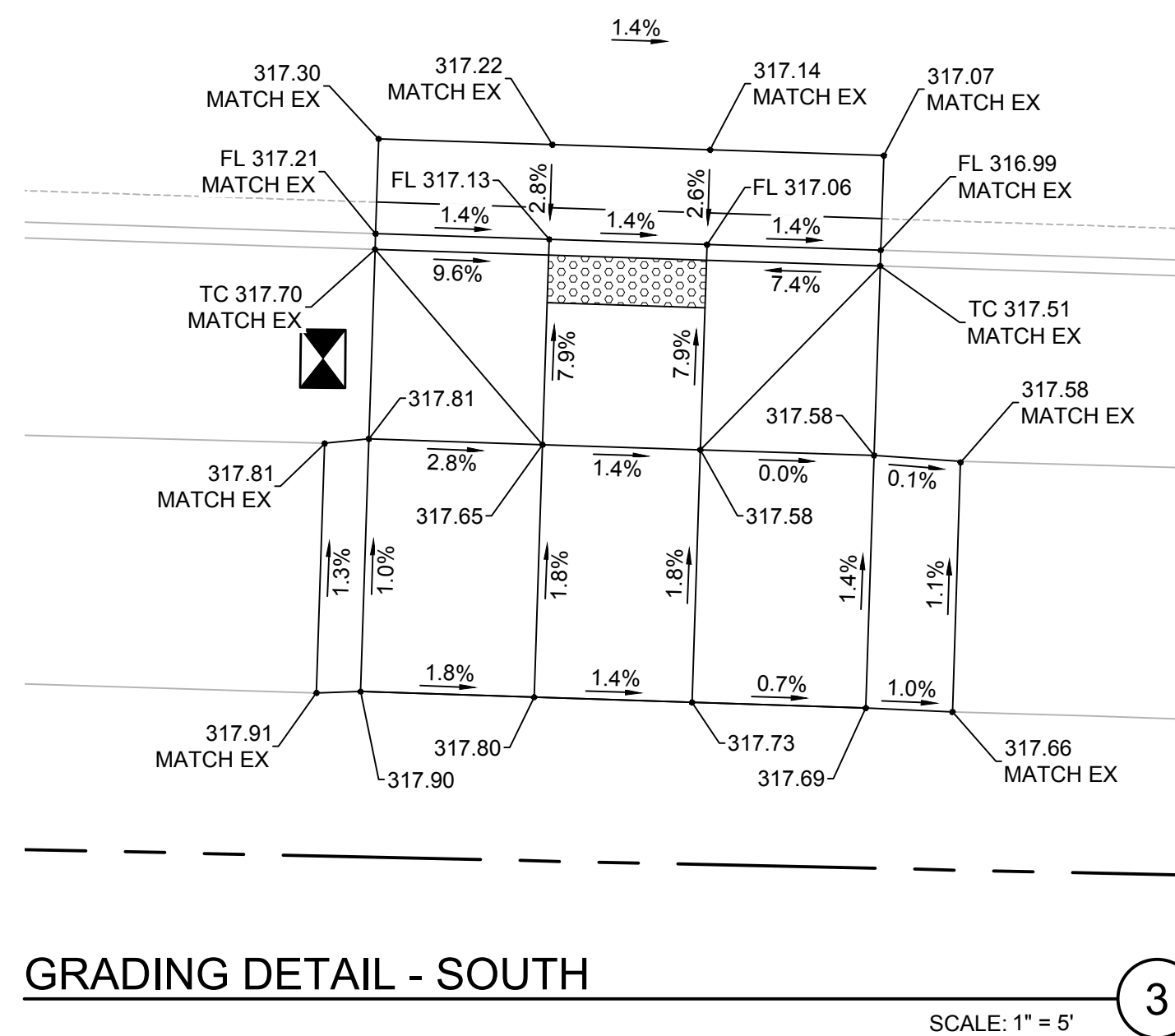
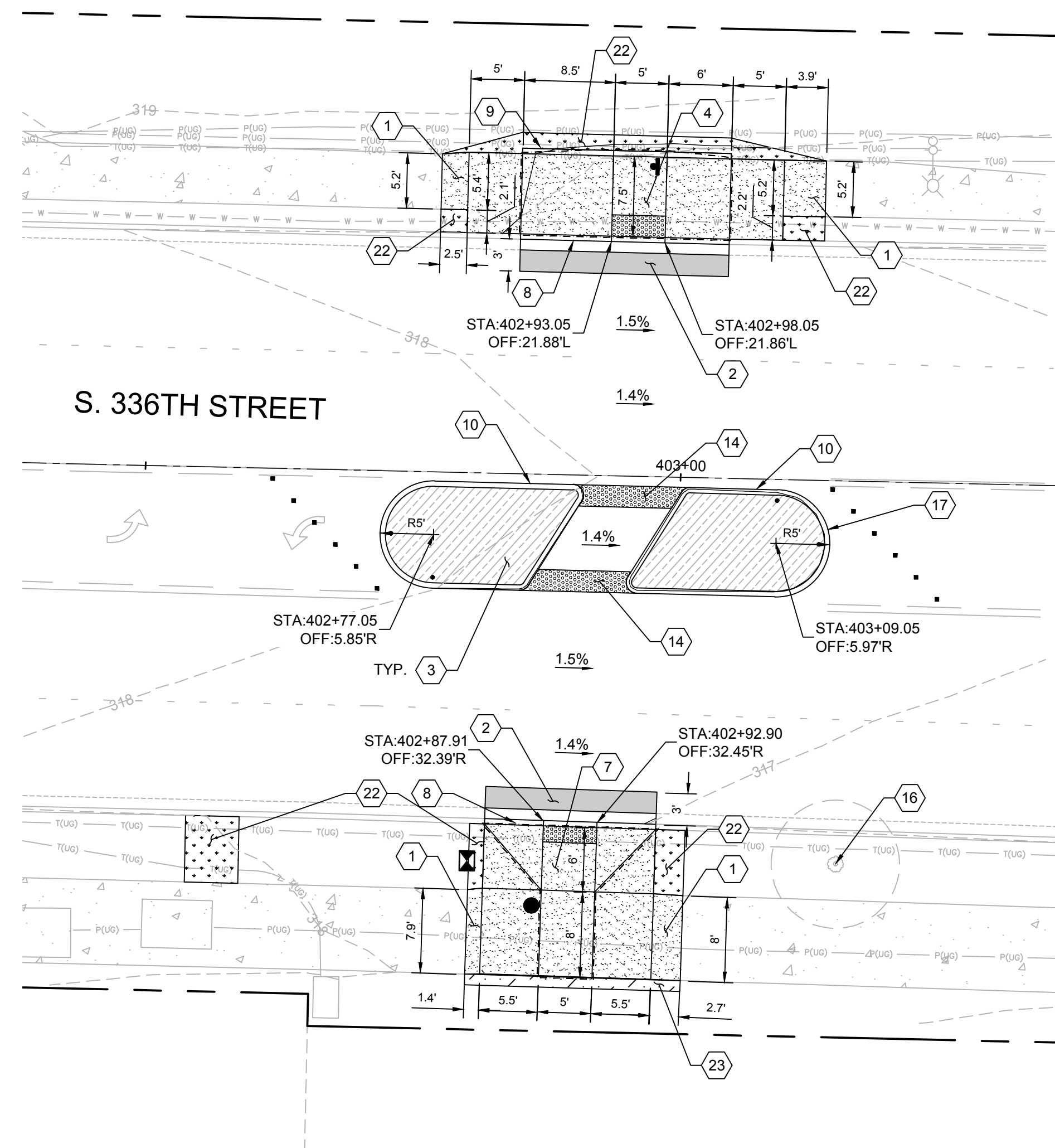
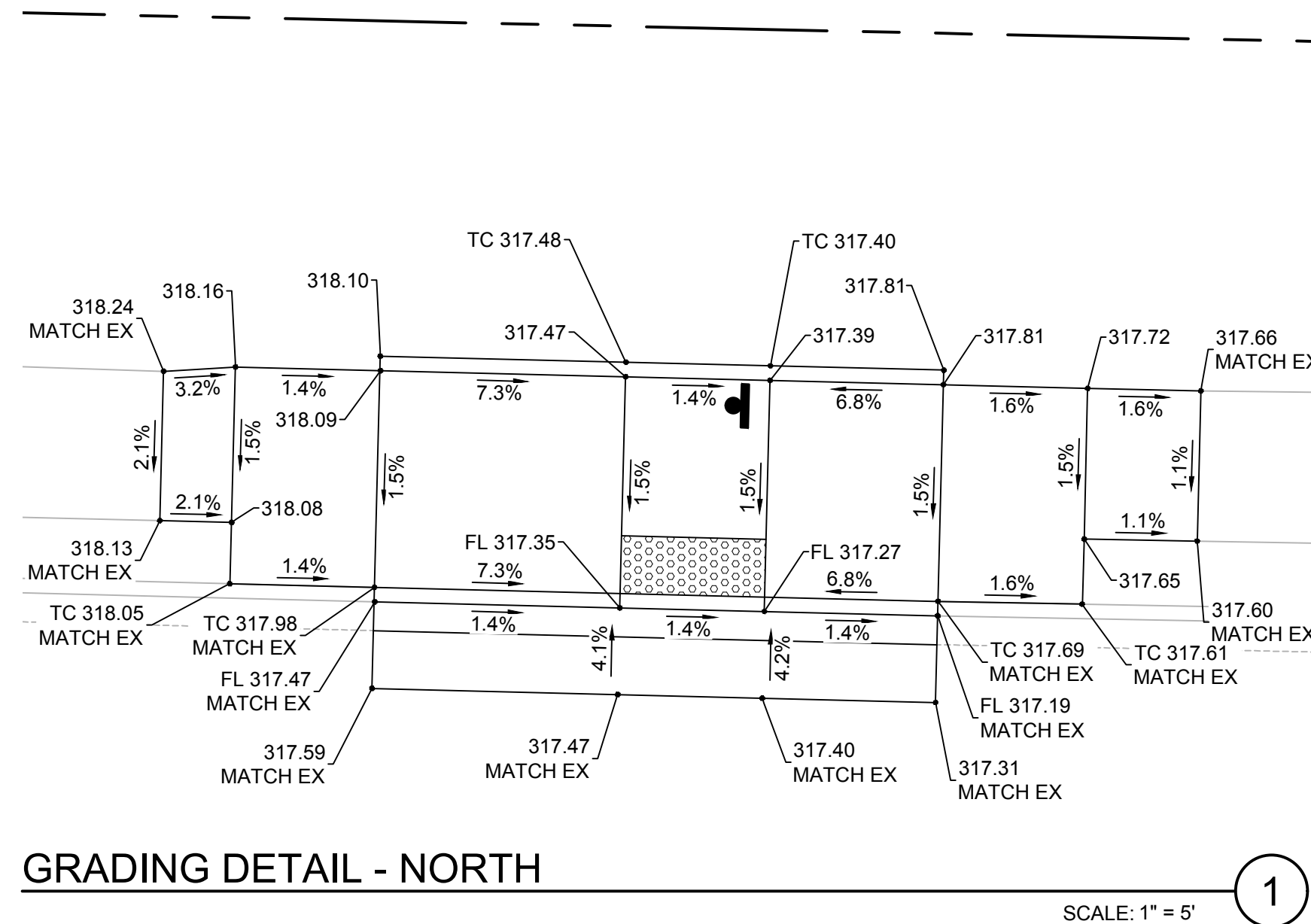




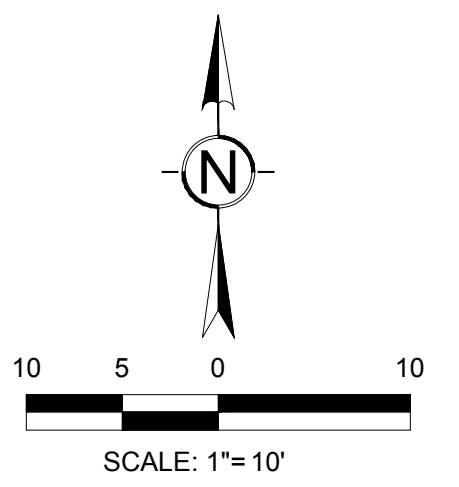


**PAVING AND GRADING NOTES:**

- 1 CEMENT CONCRETE SIDEWALK PER CITY OF FEDERAL WAY DWG NO 3-12.
- 2 HMA PAVEMENT PER DETAIL.
- 3 BACKFILL WITHIN CURBING: 2" HMA PAVEMENT OVER 4" CSTC.
- 4 PARALLEL CURB RAMP WITH PLANTER STRIP PER CITY OF FEDERAL WAY DWG NO 3-8.
- 5 PARALLEL CURB RAMP WITH NO PLANTER STRIP PER CITY OF FEDERAL WAY DWG NO 3-8A.
- 6 PARALLEL CURB RAMP WITH NO BARRIER CURB PER CITY OF FEDERAL WAY DWG NO 3-8B.
- 7 PERPENDICULAR CURB RAMP PER CITY OF FEDERAL WAY DWG NO 3-11.
- 8 CEMENT CONCRETE CURB AND GUTTER PER CITY OF FEDERAL WAY DWG NO 3-4.
- 9 CEMENT CONCRETE BARRIER CURB PER CITY OF FEDERAL WAY DWG NO 3-4.
- 10 YELLOW PAINTED CEMENT CONCRETE EXTRUDED CURB PER CITY OF FEDERAL WAY DWG NO 3-4A.
- 11 RELOCATED BOULDERS. PROVIDE MIN 2' CLEAR FROM ROCK FACE TO POLE.
- 12 ADJUST UTILITY TO FINISHED GRADE.
- 13 ADJUST CATCH BASIN TO FINISHED GRADE.
- 14 LIQUID-FORMED DETECTABLE WARNING SURFACE. LOCATE DETECTABLE WARNING AT FACE OF CURB. REFER TO SPECIAL PROVISIONS.
- 15 FLUSH CURB, MATCH EXISTING.
- 16 PROTECT EXISTING TREE TO REMAIN.
- 17 PEDESTRIAN REFUGE ISLAND AND CROSSWALK - MID-BLOCK PER CITY OF FEDERAL WAY DWG NO 3-58. DIMENSIONS AS SHOWN ON DWG NO 3-58 UNLESS NOTED OTHERWISE ON PLAN.
- 18 POUR BACK OF WALK AGAINST EXISTING WALL WITH FIBER EXPANSION JOINT MATERIAL BETWEEN WALL AND NEW POUR.
- 19 SINGLE DIRECTION CURB RAMP WITH PLANTER STRIP PER CITY OF FEDERAL WAY DWG NO 3-10A.
- 20 LIMB TREE AS NECESSARY TO PREVENT OBSTRUCTION OF SIGNAGE. COORDINATE WITH INSPECTOR.
- 21 TRANSITION PANEL.
- 22 4" DEPTH TOPSOIL AND SEEDED LAWN.
- 23 4" DEPTH TOPSOIL AND 2" DEPTH BARK MULCH.
- 24 DETECTABLE WARNING SURFACE, BLACK TRUNCATED DOMES.



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DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



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NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
PAVING AND GRADING PLAN  
LOCATION 4: S 336TH ST AT 10TH PL S

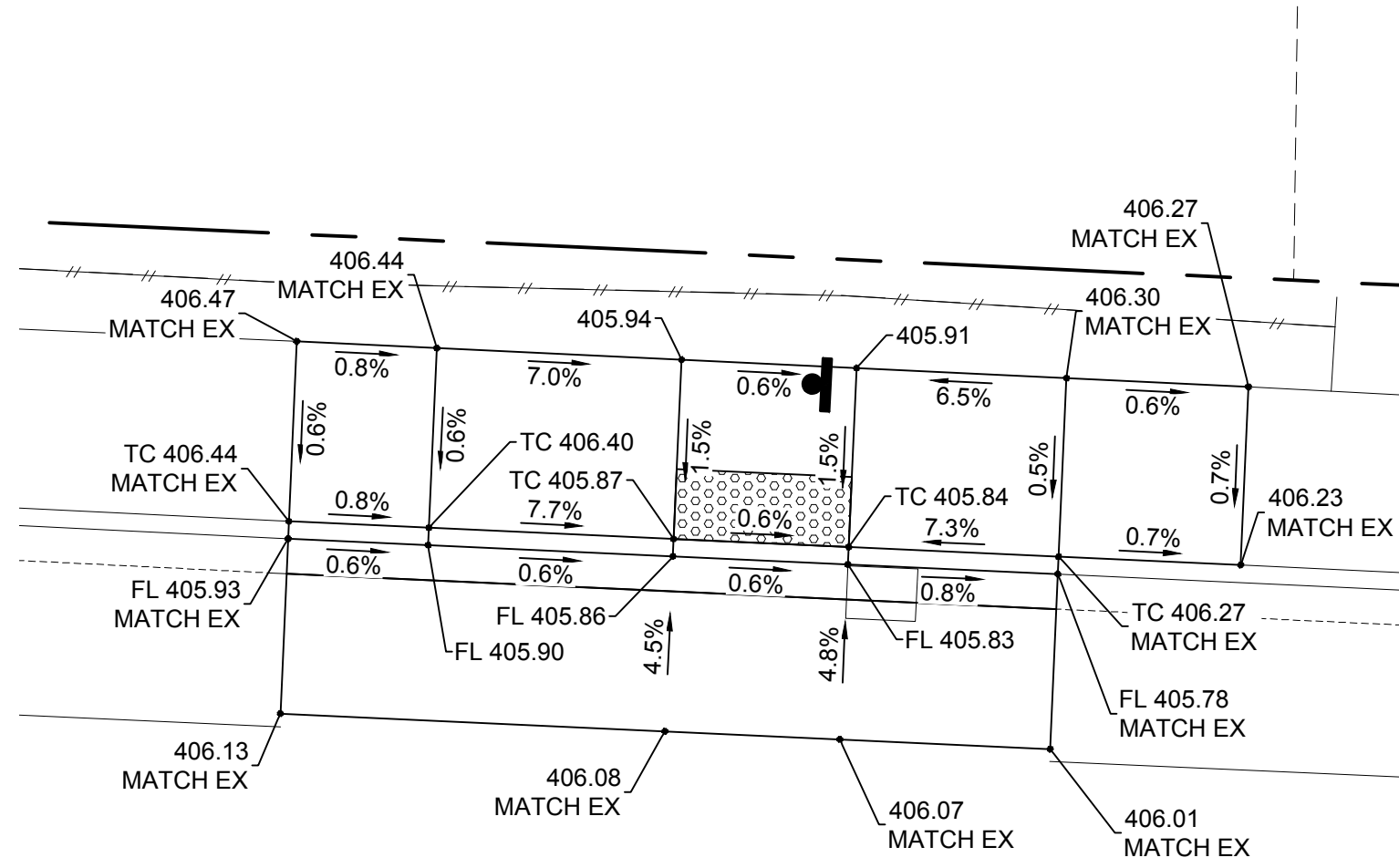
CITY PROJECT #: 36234  
SHEET C-204  
14 OF 37

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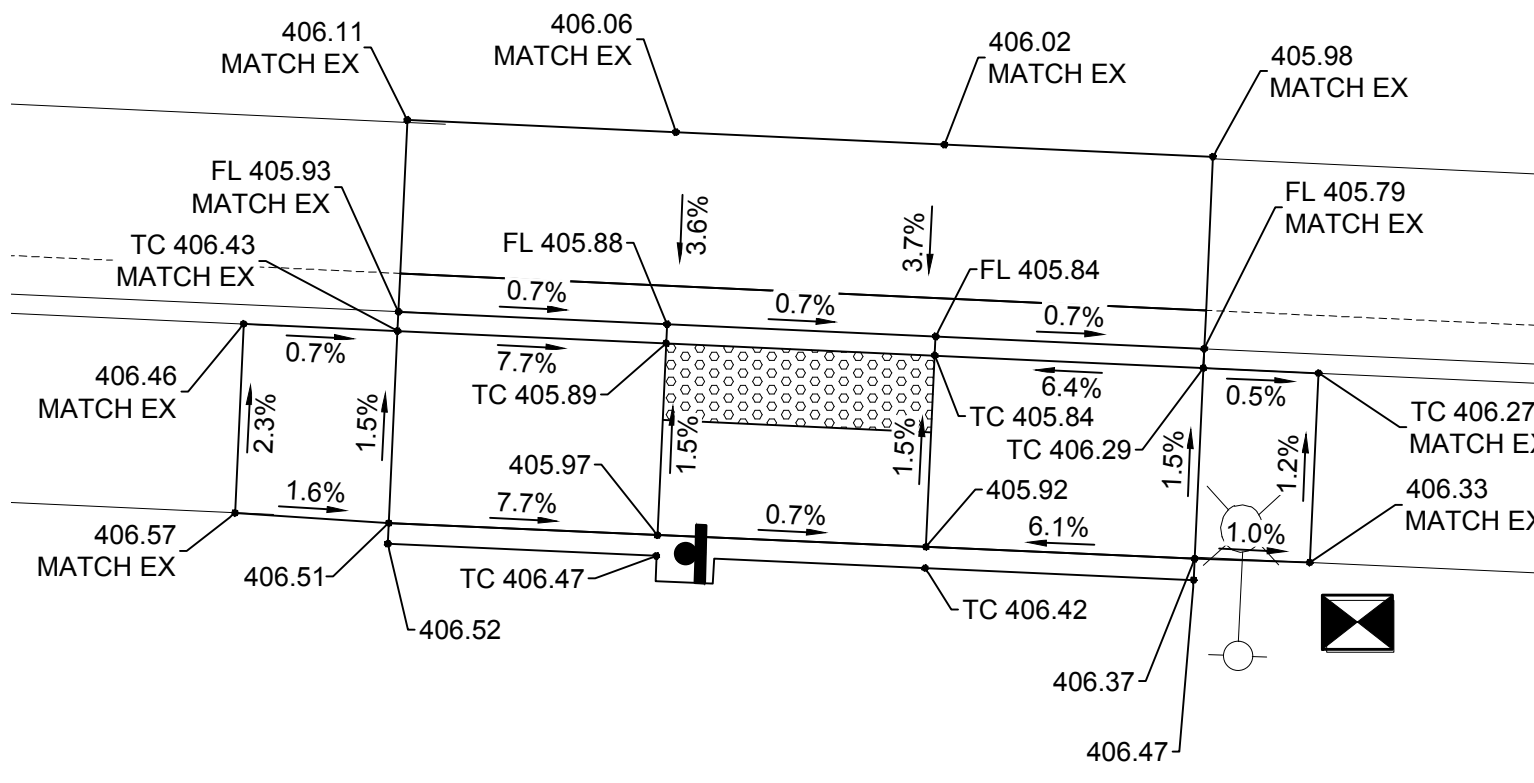




GRADING DETAIL - NORTH

SCALE: 1" = 5'

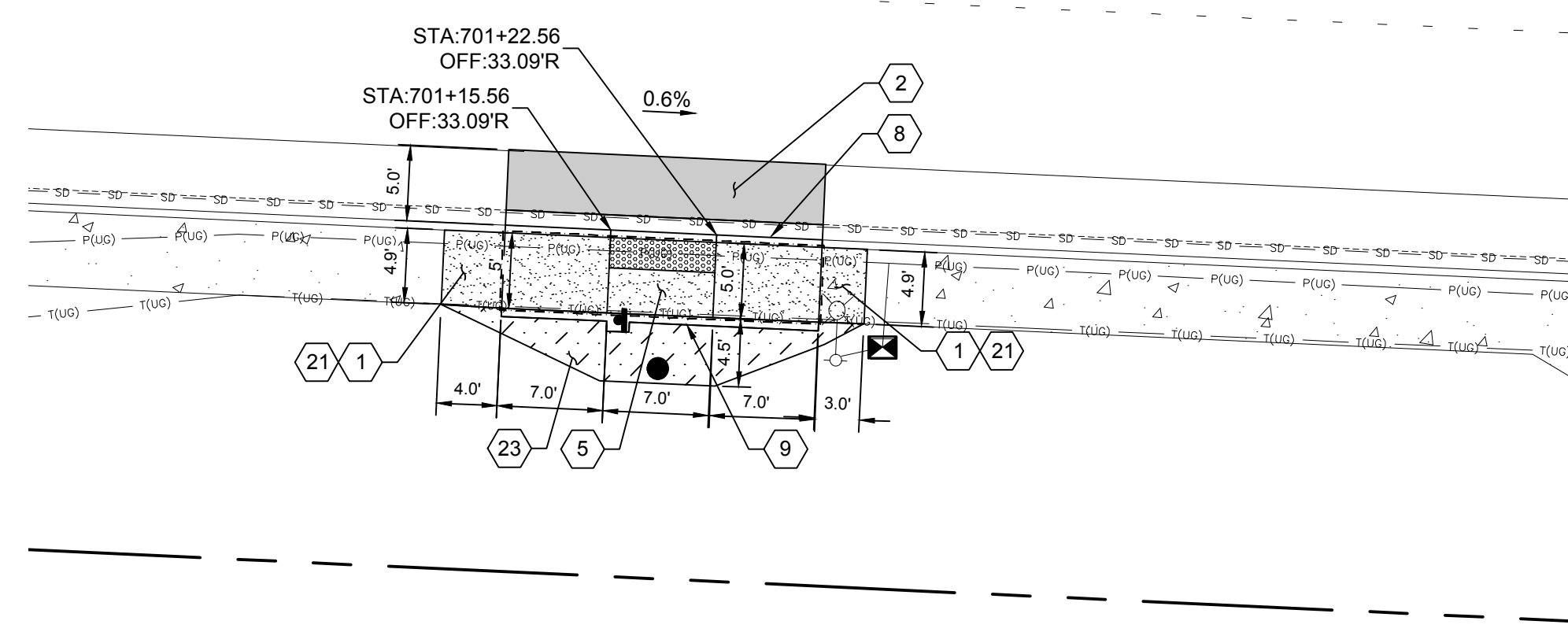
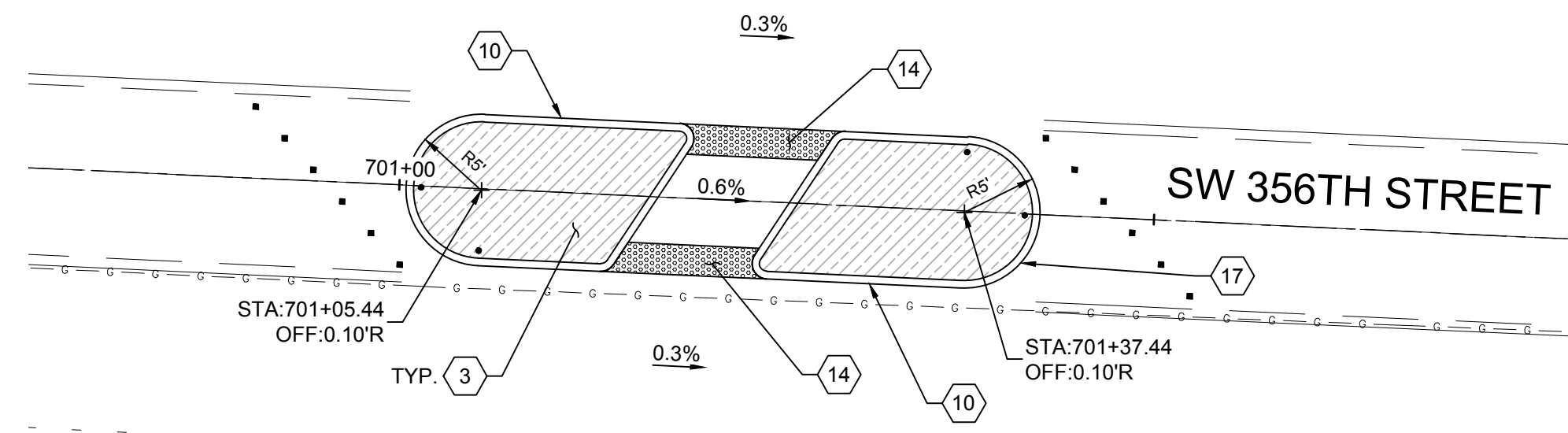
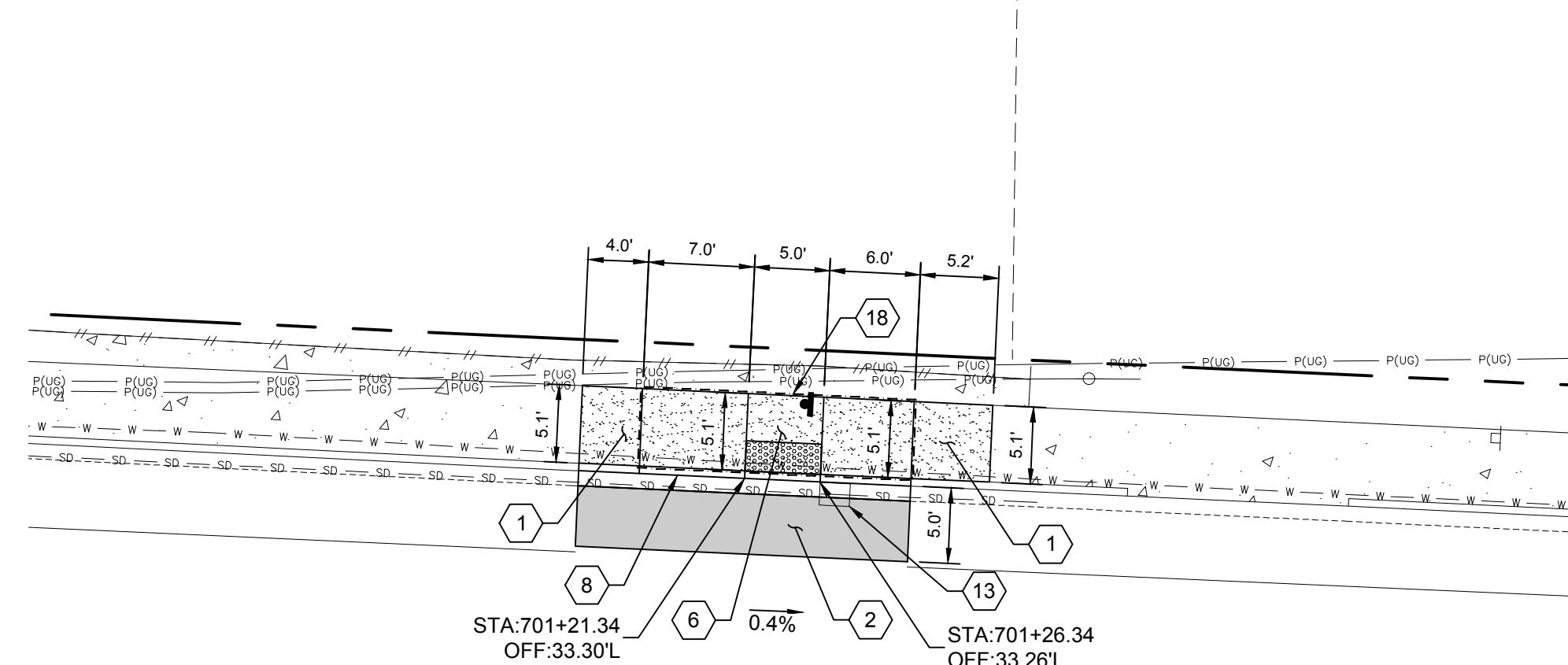
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GRADING DETAIL - SOUTH

SCALE: 1" = 5'

3

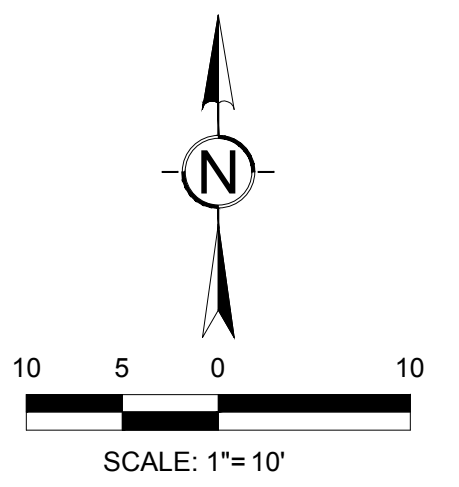


PAVING AND GRADING NOTES:

- 1 CEMENT CONCRETE SIDEWALK PER CITY OF FEDERAL WAY DWG NO 3-12.
- 2 HMA PAVEMENT PER DETAIL.
- 3 BACKFILL WITHIN CURBING: 2" HMA PAVEMENT OVER 4" CSTC.
- 4 PARALLEL CURB RAMP WITH PLANTER STRIP PER CITY OF FEDERAL WAY DWG NO 3-8.
- 5 PARALLEL CURB RAMP WITH NO PLANTER STRIP PER CITY OF FEDERAL WAY DWG NO 3-8A.
- 6 PARALLEL CURB RAMP WITH NO BARRIER CURB PER CITY OF FEDERAL WAY DWG NO 3-8B.
- 7 PERPENDICULAR CURB RAMP PER CITY OF FEDERAL WAY DWG NO 3-11.
- 8 CEMENT CONCRETE CURB AND GUTTER PER CITY OF FEDERAL WAY DWG NO 3-4.
- 9 CEMENT CONCRETE BARRIER CURB PER CITY OF FEDERAL WAY DWG NO 3-4.
- 10 YELLOW PAINTED CEMENT CONCRETE EXTRUDED CURB PER CITY OF FEDERAL WAY DWG NO 3-4A.
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- 12 ADJUST UTILITY TO FINISHED GRADE.
- 13 ADJUST CATCH BASIN TO FINISHED GRADE.
- 14 LIQUID-FORMED DETECTABLE WARNING SURFACE. LOCATE DETECTABLE WARNING AT FACE OF CURB. REFER TO SPECIAL PROVISIONS.
- 15 FLUSH CURB, MATCH EXISTING.
- 16 PROTECT EXISTING TREE TO REMAIN.
- 17 PEDESTRIAN REFUGE ISLAND AND CROSSWALK - MID-BLOCK PER CITY OF FEDERAL WAY DWG NO 3-58. DIMENSIONS AS SHOWN ON DWG NO 3-58 UNLESS NOTED OTHERWISE ON PLAN.
- 18 POUR BACK OF WALK AGAINST EXISTING WALL WITH FIBER EXPANSION JOINT MATERIAL BETWEEN WALL AND NEW POUR.
- 19 SINGLE DIRECTION CURB RAMP WITH PLANTER STRIP PER CITY OF FEDERAL WAY DWG NO 3-10A.
- 20 LIMB TREE AS NECESSARY TO PREVENT OBSTRUCTION OF SIGNAGE. COORDINATE WITH INSPECTOR.
- 21 TRANSITION PANEL.
- 22 4" DEPTH TOPSOIL AND SEEDED LAWN.
- 23 4" DEPTH TOPSOIL AND 2" DEPTH BARK MULCH.
- 24 DETECTABLE WARNING SURFACE, BLACK TRUNCATED DOMES.



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DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



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NO.	DATE	REVISION

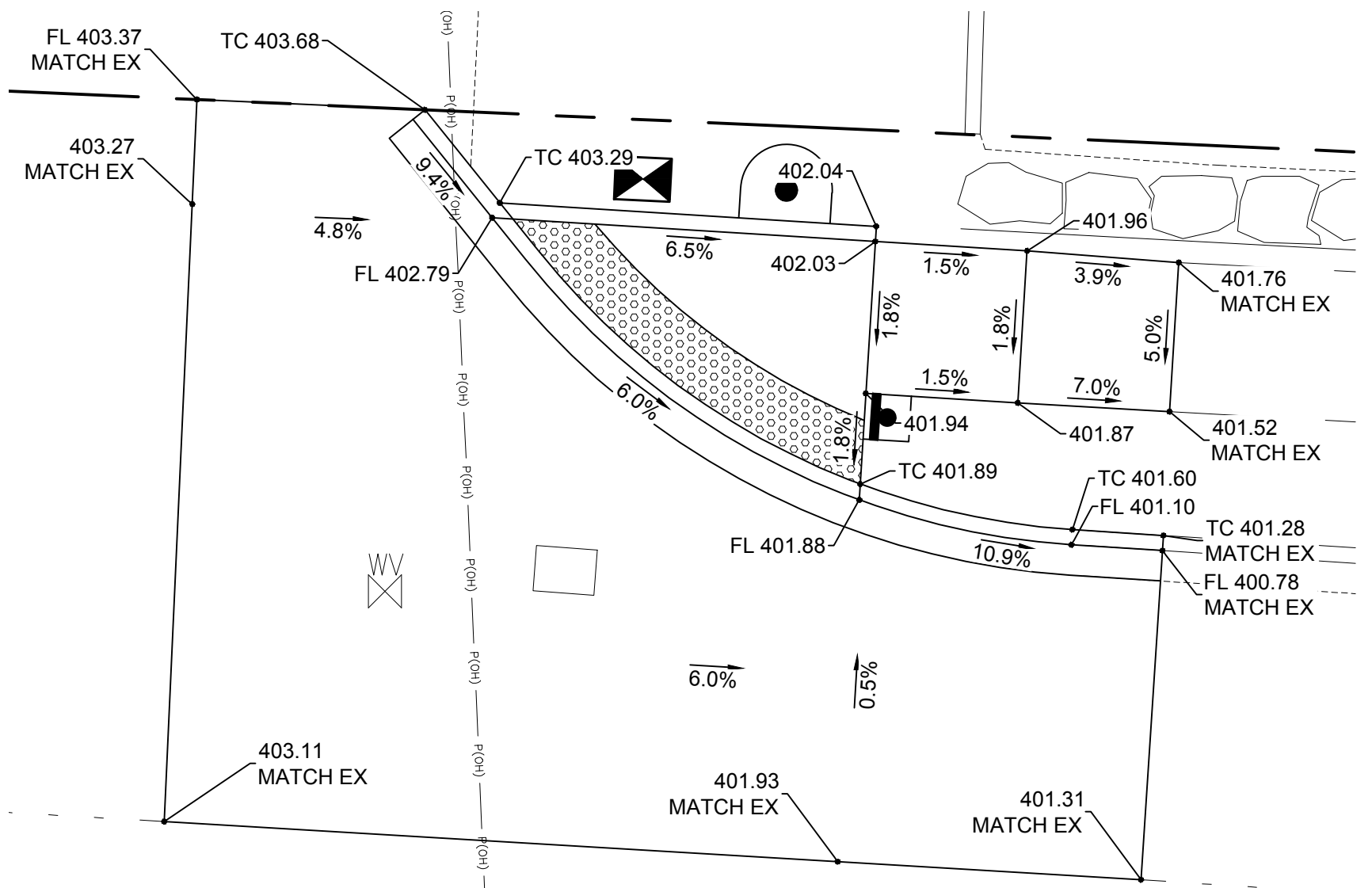
**CITYWIDE PEDESTRIAN SAFETY**  
PAVING AND GRADING PLAN  
LOCATION 7: SW 356TH ST AT 18TH AVE SW

CITY PROJECT #: 36234  
SHEET C-207  
17 OF 37

H:\210002\1027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\21027-TC-205-208.dwg, 9/8/2022

**PAVING AND GRADING NOTES:**

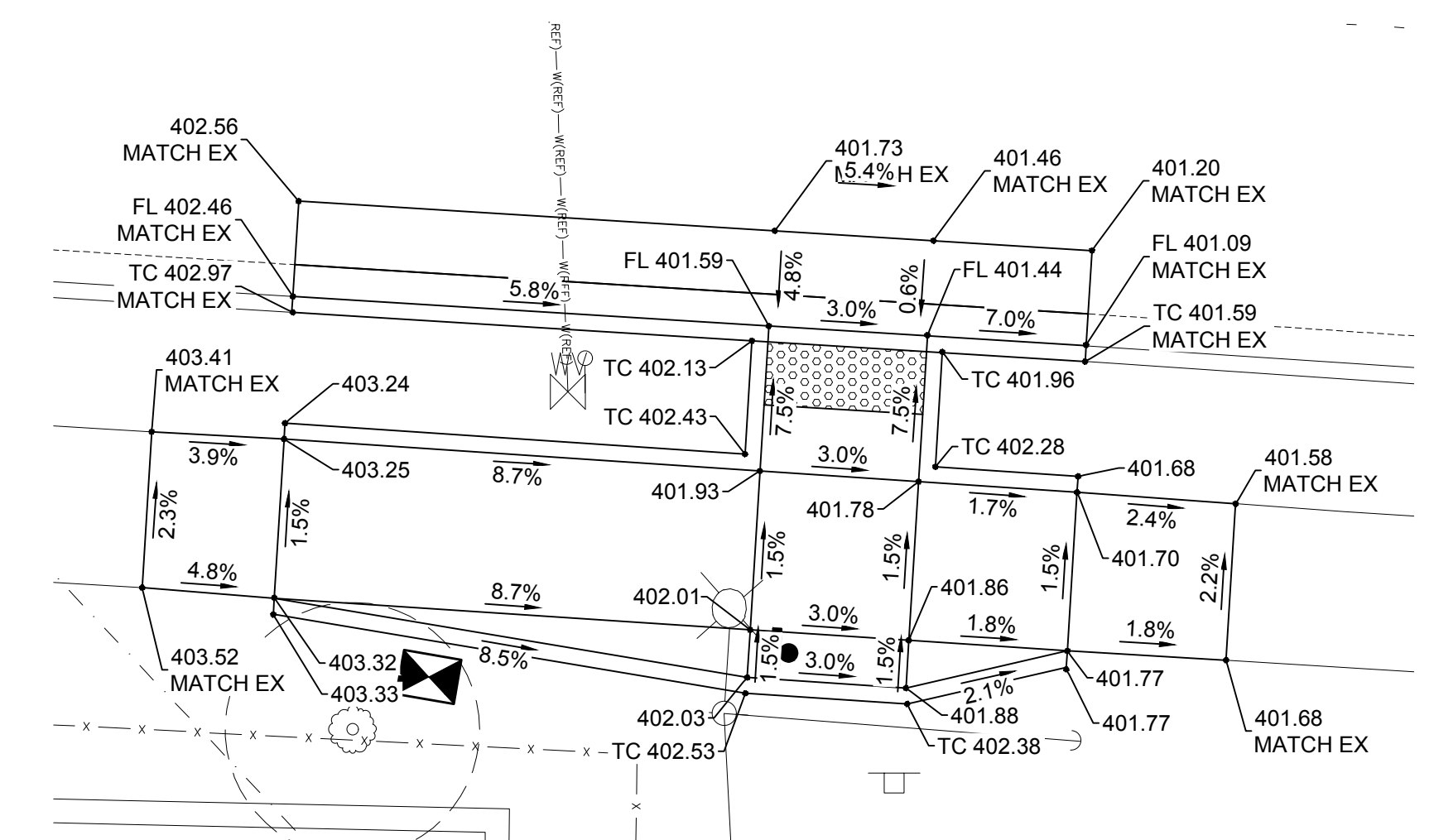
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**GRADING DETAIL - NORTH**

SCALE: 1" = 5'

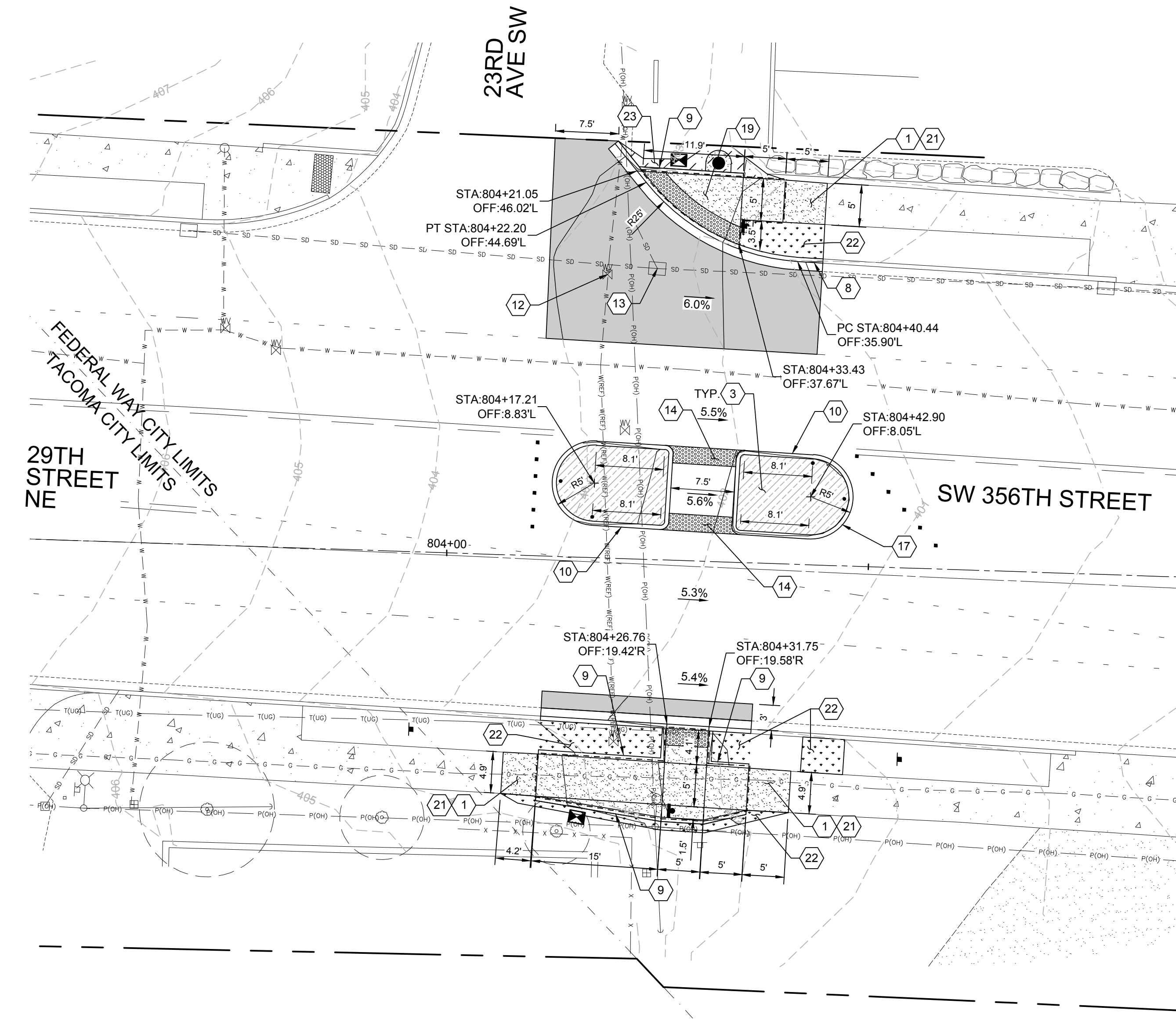
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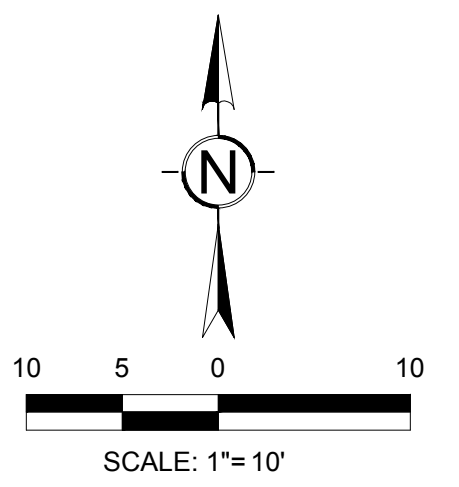
**GRADING DETAIL - SOUTH**

SCALE: 1" = 5'

3



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WWW.BCRADESIGN.COM

DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
PAVING AND GRADING PLAN  
LOCATION 8: SW 356TH ST AT 23RD AVE SW

CITY PROJECT #: 36234  
SHEET C-208  
18 OF 37

H:\210002\027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\21027-TC-205-208.dwg, 9/8/2023

**PAVEMENT MARKING NOTES:**

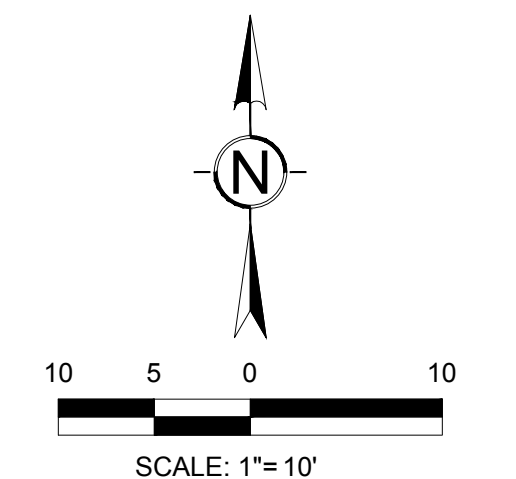
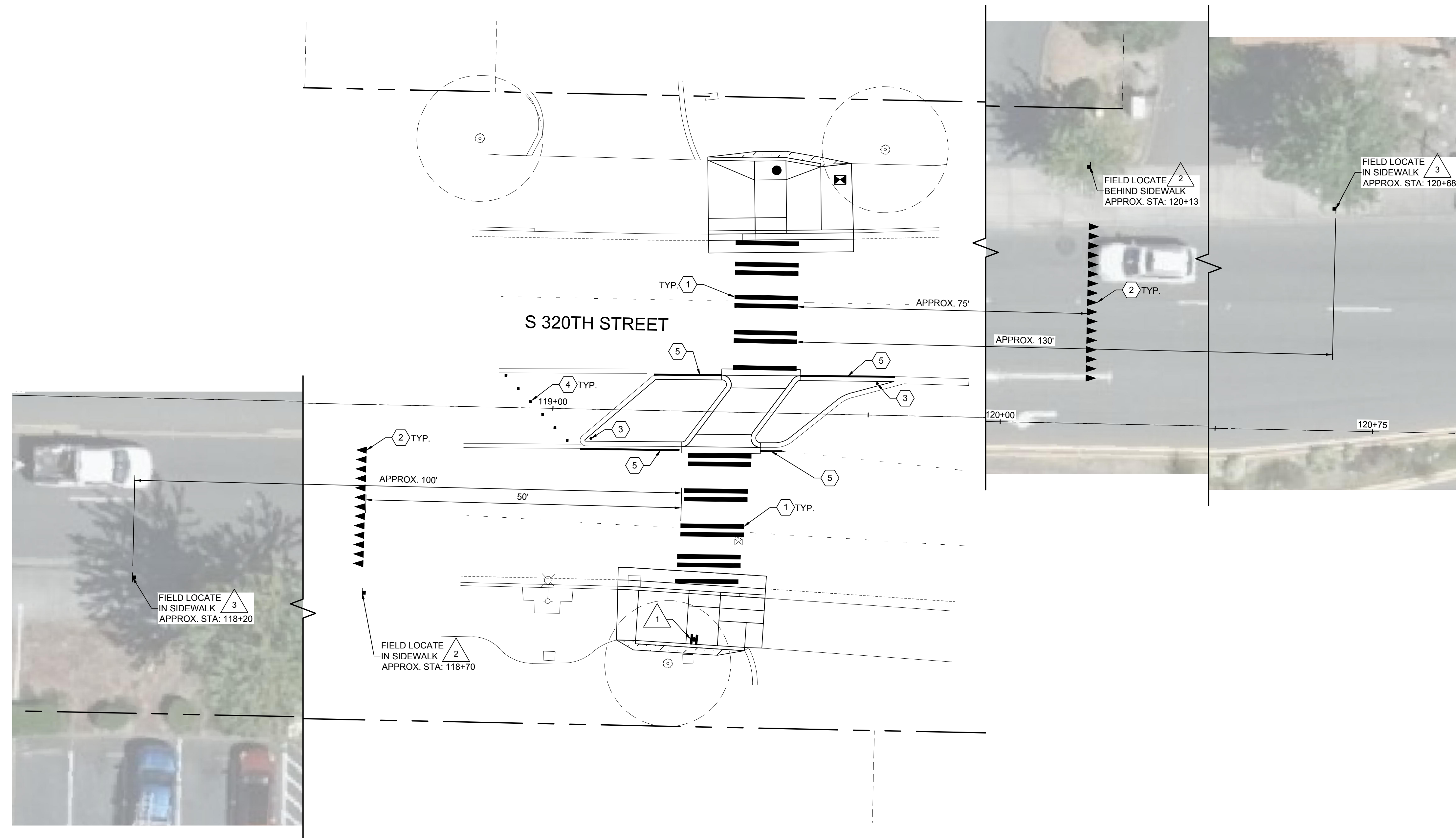
- ① PLASTIC CROSSWALK LINE PER CITY OF FEDERAL WAY DWG NO 3-21.
- ② PLASTIC TYPE 1 YIELD LINE SYMBOLS PER WSDOT STD PLAN M-24.60-04 LOCATED MINIMUM 50' IN ADVANCE OF MARKED CROSSWALK.
- ③ 28" TUBULAR MARKER. REFER TO SPECIAL PROVISIONS.
- ④ TYPE 2Y RPM. REFER TO SPECIAL PROVISIONS.
- ⑤ 4" PLASTIC TYPE D EDGE LINE.
- ⑥ CONVERT REMAINDER OF TWO WAY LEFT TURN LANE TO DOUBLE YELLOW CENTER LINE PER CITY OF FEDERAL WAY DWG NO 3-17.
- ⑦ 4" PLASTIC TYPE D LANE LINE PER CITY OF FEDERAL WAY DWG NO 3-18.

**GENERAL SIGNAGE NOTES:**

- 1. INSTALL SIGNS IN ACCORDANCE WITH FEDERAL WAY DWG NO 3-17 AND 3-18. SIGNS WITHIN EXISTING SIDEWALK SHALL BE SURFACE MOUNTED.
- 2. EDGE OF SIGN SHALL BE A MINIMUM OF 2' FROM FACE OF CURB AND BOTTOM OF SIGN SHALL BE A MINIMUM OF 7' ABOVE FINISHED GRADE.

**SIGNAGE NOTES:**

- ① RRFB ASSEMBLY. REFER TO RRFB PLANS.
- ② YIELD HERE TO PEDESTRIANS SIGN (R1-5A). ALIGN WITH YIELD LINE SYMBOLS.
- ③ PEDESTRIAN SIGN (W11-2). LOCATE MINIMUM 100' IN ADVANCE OF MARKED CROSSWALK.
- ④ RELOCATED SR509 NORTH SIGN.
- ⑤ APPROXIMATE LOCATION OF EXISTING SCHOOL ZONE AHEAD SIGN.
- ⑥ PEDESTRIAN SIGN (W11-2). LOCATE MINIMUM 100' IN ADVANCE OF EXISTING SCHOOL ZONE AHEAD SIGN.
- ⑦ RELOCATE EXISTING SCHOOL ZONE AHEAD SIGN MINIMUM 100' FROM MARKED CROSSWALK AND MINIMUM 100' IN ADVANCE OF SCHOOL ZONE.
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- ⑩ RELOCATE EXISTING SPEED LIMIT SIGN MINIMUM 100' IN ADVANCE OF PROPOSED PEDESTRIAN SIGN.
- ⑪ RELOCATED WELCOME TO FEDERAL WAY SIGNS.
- ⑫ RELOCATE EXISTING SPEED LIMIT SIGN MINIMUM 100' IN ADVANCE OF PEDESTRIAN SIGN.
- ⑬ INSTALL ON SIDEWALK PER CITY OF TACOMA STANDARD PLAN SU-34.
- ⑭ RELOCATE EXISTING STOP AHEAD SIGN MINIMUM 50' AFTER MARKED CROSSWALK.



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WWW.BCRADESIGN.COM

DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



DRAWING VERSION / REVISION LOG

NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**

PAVEMENT MARKING AND SIGNAGE PLAN  
LOCATION 1: S 320TH ST - 1400 BLOCK

CITY PROJECT #:  
**36234**  
SHEET  
**C-301**  
19 OF 37

H:\210002\1027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\321027C-301-304.dwg, 9/8/2022

**PAVEMENT MARKING NOTES:**

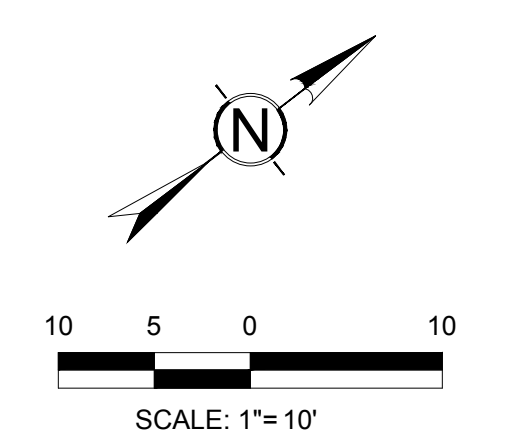
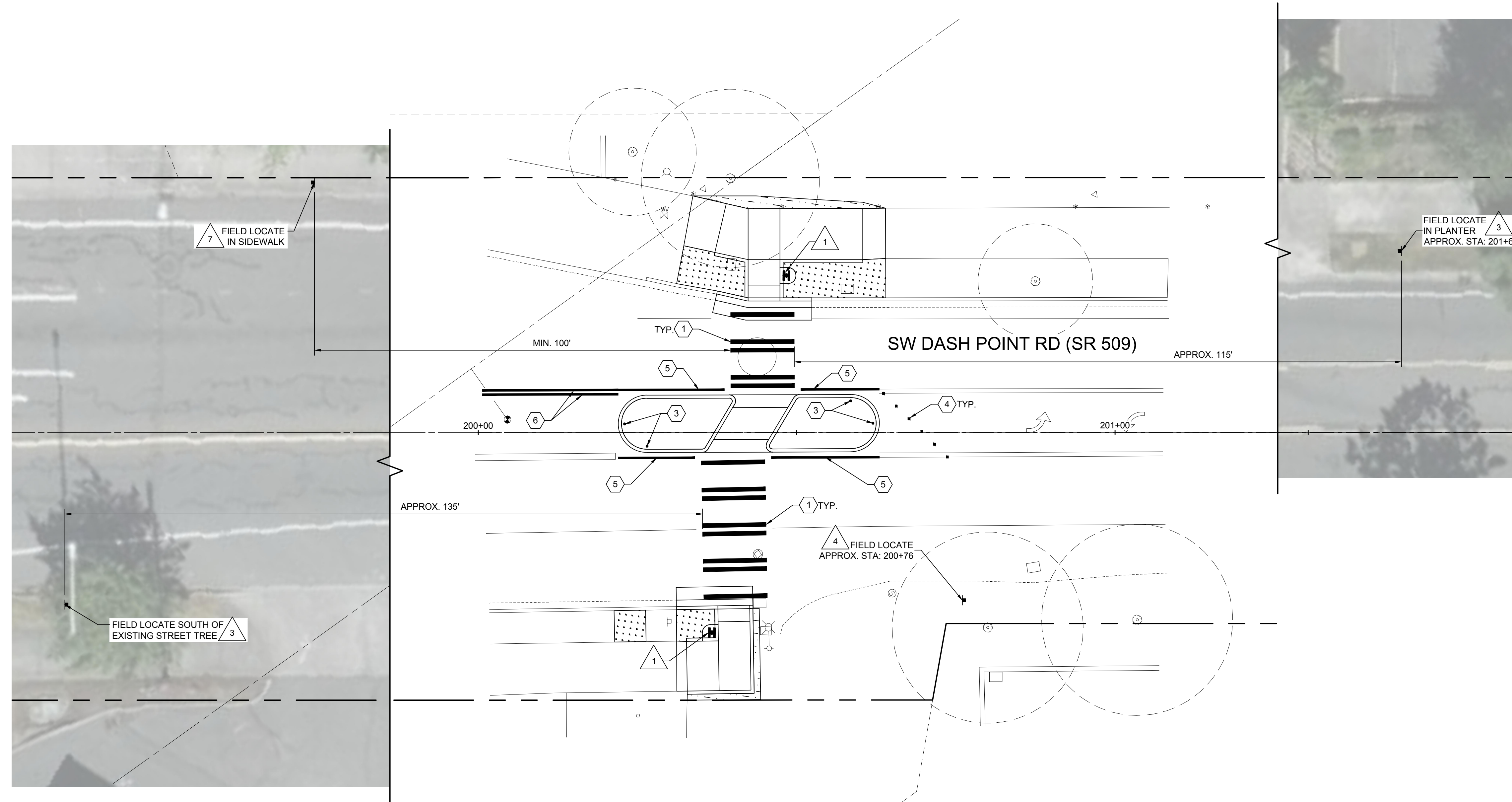
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- ④ TYPE 2Y RPM. REFER TO SPECIAL PROVISIONS.
- ⑤ 4" PLASTIC TYPE D EDGE LINE.
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- ⑦ 4" PLASTIC TYPE D LANE LINE PER CITY OF FEDERAL WAY DWG NO 3-18.

**GENERAL SIGNAGE NOTES:**

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- 2. EDGE OF SIGN SHALL BE A MINIMUM OF 2' FROM FACE OF CURB AND BOTTOM OF SIGN SHALL BE A MINIMUM OF 7' ABOVE FINISHED GRADE.

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- ⑫ RELOCATE EXISTING SPEED LIMIT SIGN MINIMUM 100' IN ADVANCE OF PEDESTRIAN SIGN.
- ⑬ INSTALL ON SIDEWALK PER CITY OF TACOMA STANDARD PLAN SU-34.
- ⑭ RELOCATE EXISTING STOP AHEAD SIGN MINIMUM 50' AFTER MARKED CROSSWALK.



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DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
PAVEMENT MARKING AND SIGNAGE PLAN  
LOCATION 2: SR 509 SOUTH OF 16TH AVE SW

CITY PROJECT #: <b>36234</b>
SHEET <b>C-302</b>
<b>20</b> OF 37

H:\210002\1027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\21027C-301-304.dwg, 9/8/2022

**PAVEMENT MARKING NOTES:**

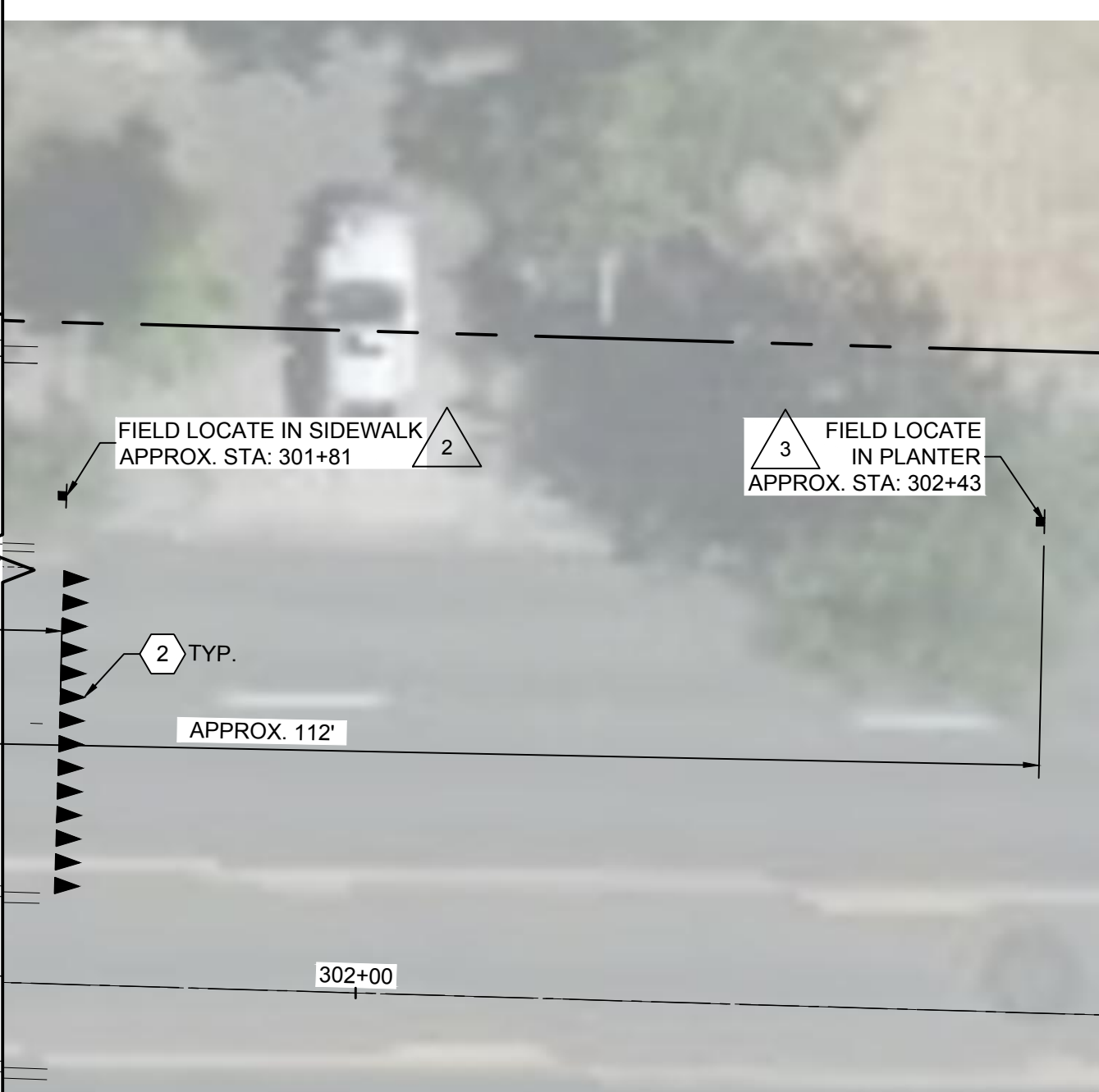
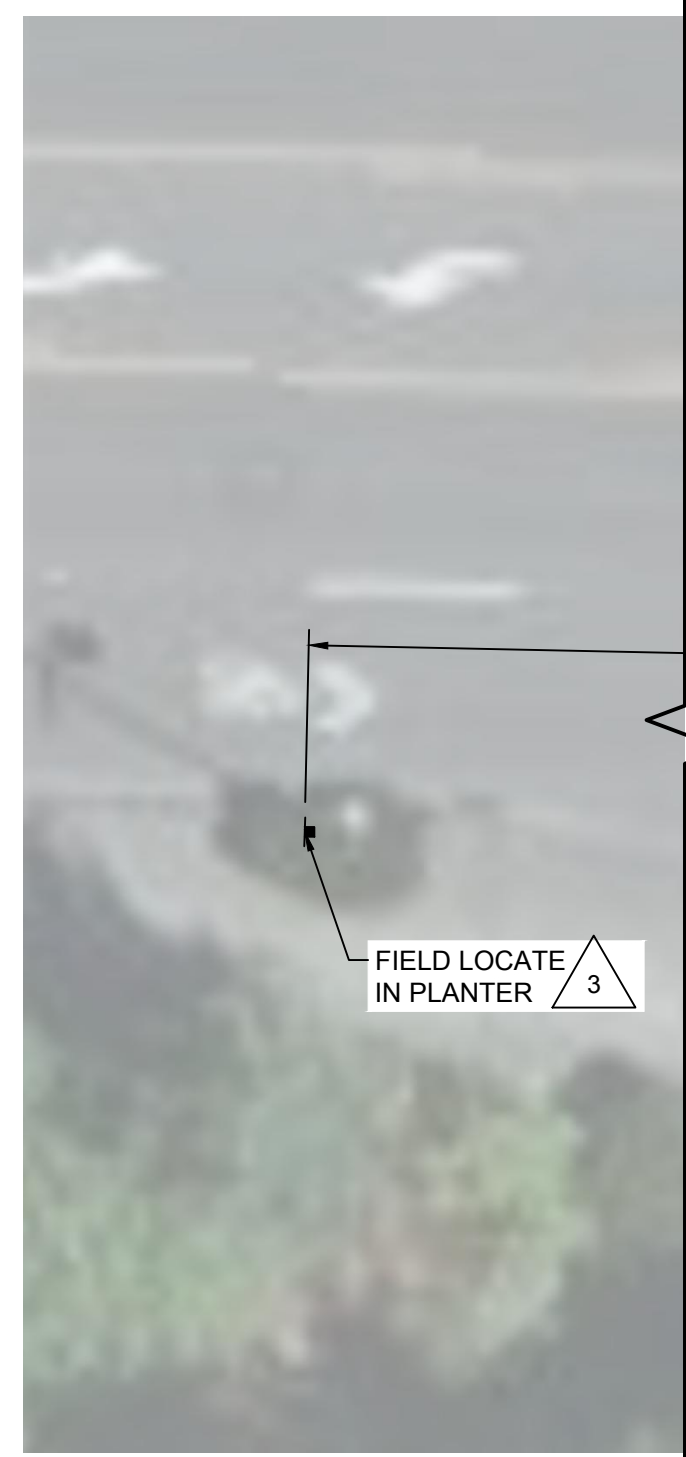
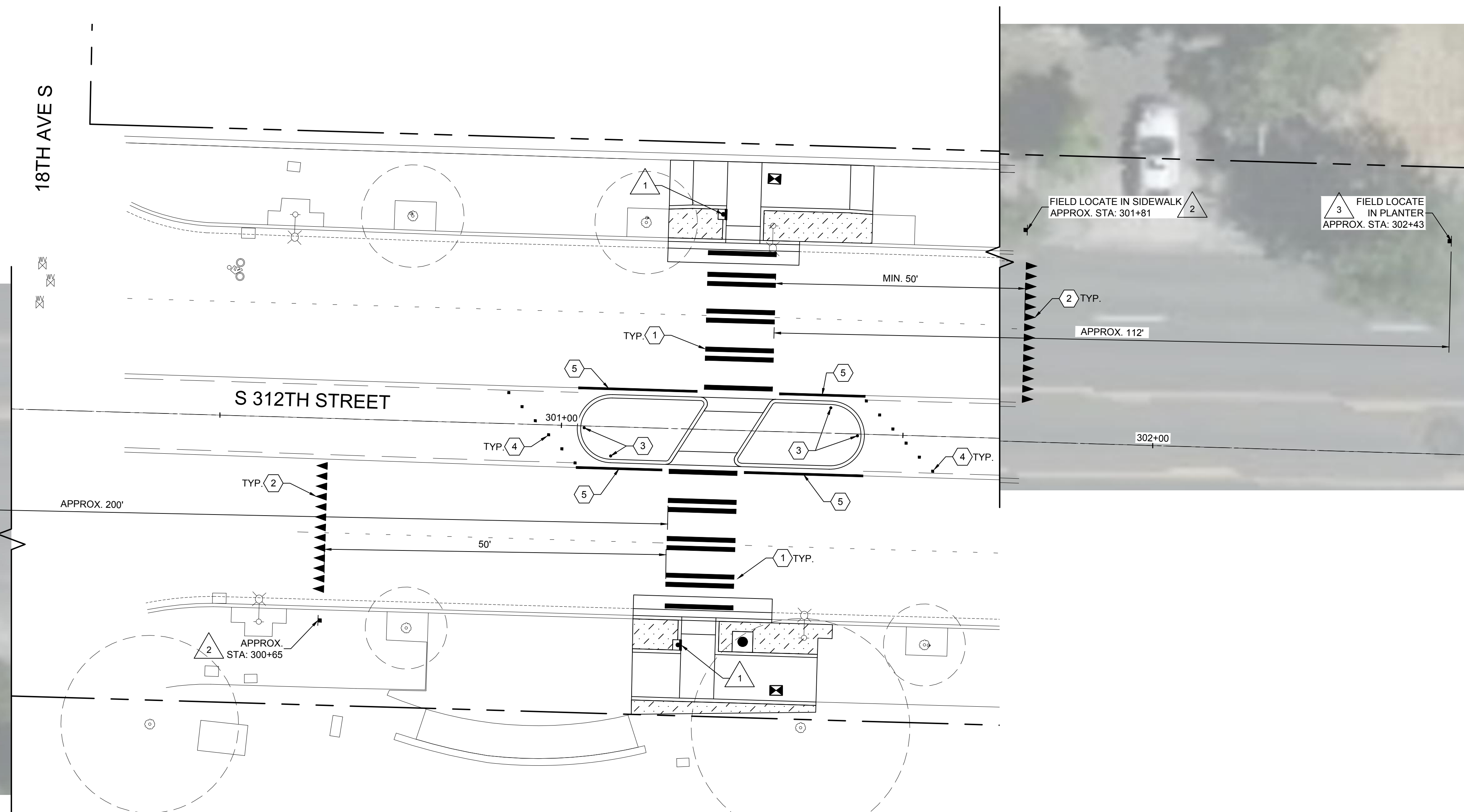
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- ④ TYPE 2Y RPM. REFER TO SPECIAL PROVISIONS.
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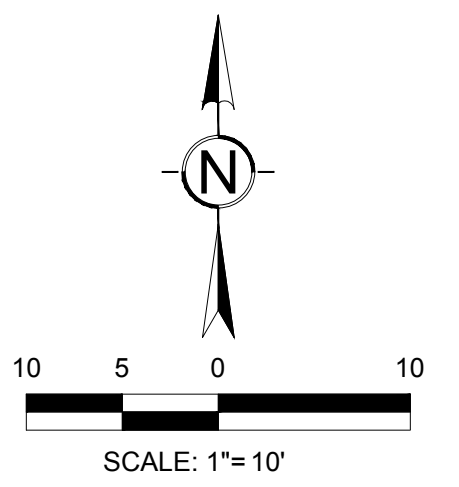
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**SIGNAGE NOTES:**

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- ⑫ RELOCATE EXISTING SPEED LIMIT SIGN MINIMUM 100' IN ADVANCE OF PEDESTRIAN SIGN.
- ⑬ INSTALL ON SIDEWALK PER CITY OF TACOMA STANDARD PLAN SU-34.
- ⑭ RELOCATE EXISTING STOP AHEAD SIGN MINIMUM 50' AFTER MARKED CROSSWALK.



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WWW.BCRADESIGN.COM

DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
PAVEMENT MARKING AND SIGNAGE PLAN  
LOCATION 3: S 312TH ST AT 18TH AVE S

CITY PROJECT #:  
**36234**  
SHEET  
**C-303**  
21 OF 37

H:\210002\1027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\21027C-301-304.dwg, 9/8/2022

**PAVEMENT MARKING NOTES:**

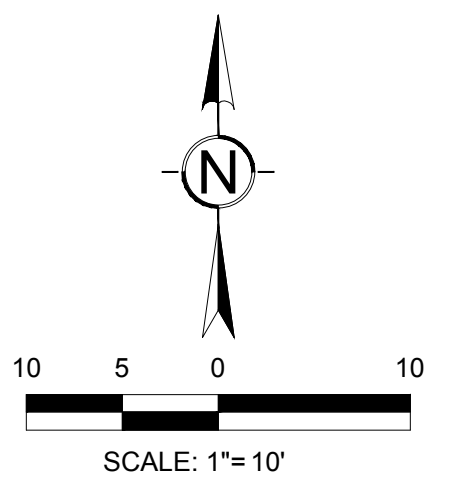
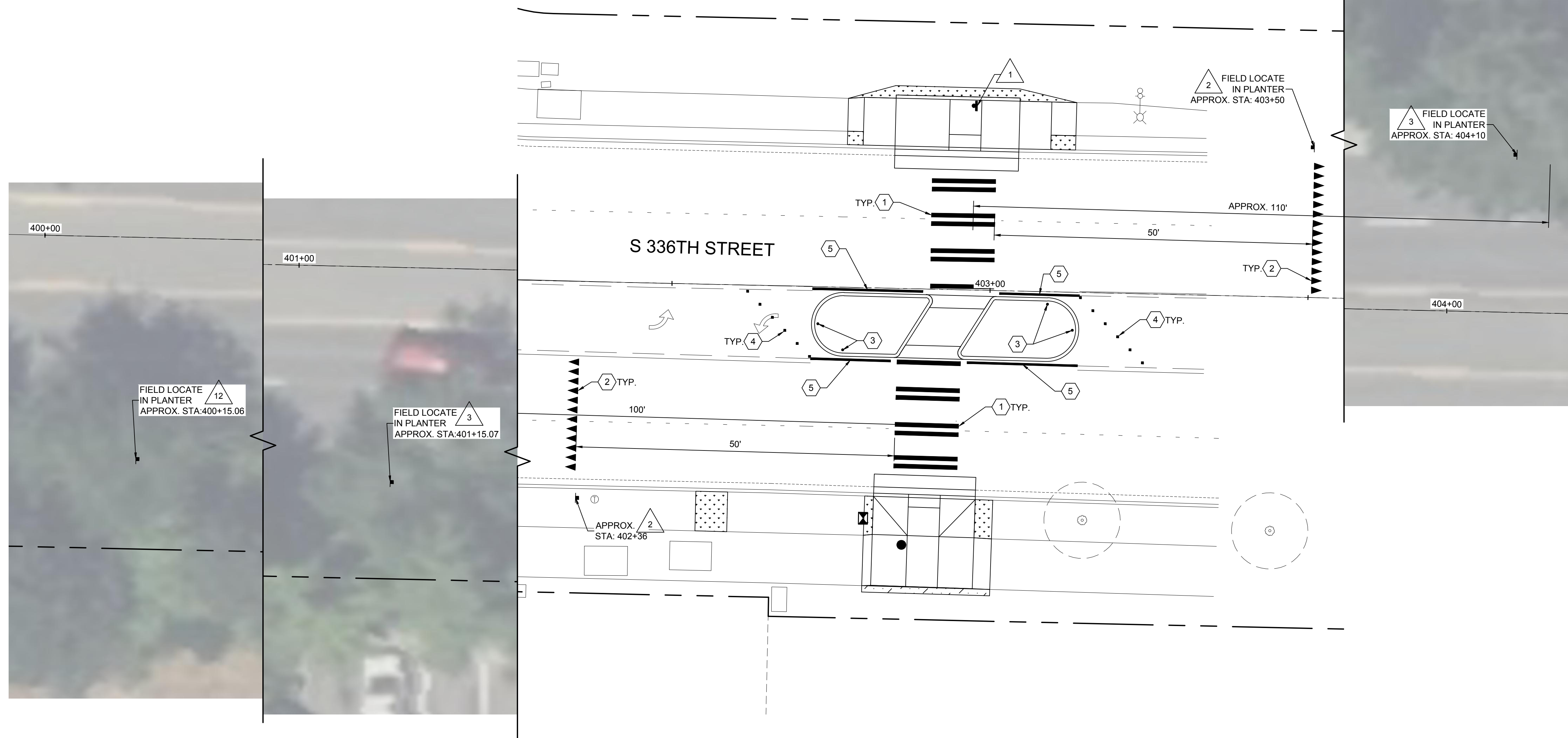
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- ⑤ 4" PLASTIC TYPE D EDGE LINE.
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- ⑭ RELOCATE EXISTING STOP AHEAD SIGN MINIMUM 50' AFTER MARKED CROSSWALK.



**RFB #23-008**

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DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
PAVEMENT MARKING AND SIGNAGE PLAN  
LOCATION 4: S 336TH ST AT 10TH PL S

CITY PROJECT #:	36234
SHEET	C-304
	22 OF 37

H:\210002\027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\Civil\BCRA\Production Dwg\21027C-301-304.dwg, 9/8/2022

**PAVEMENT MARKING NOTES:**

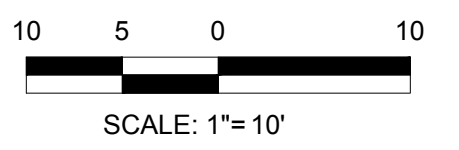
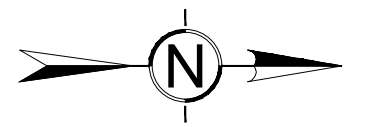
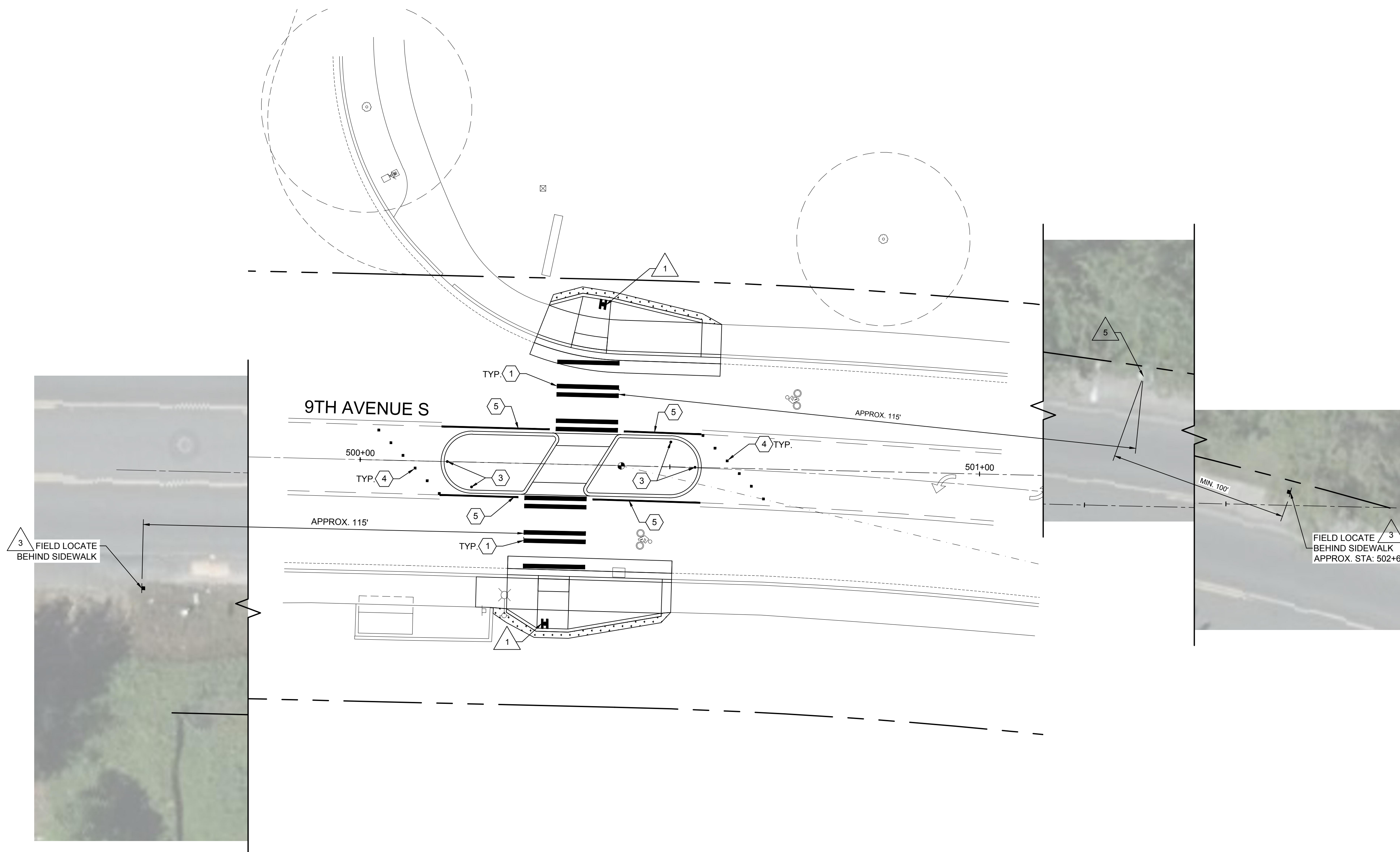
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DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
PAVEMENT MARKING AND SIGNAGE PLAN  
LOCATION 5: 9TH AVE S AT ST. FRANCIS HOSPITAL

CITY PROJECT #: <b>36234</b>
SHEET <b>C-305</b>
<b>23</b> OF 37

H:\2100021027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\21027C-305-308.dwg, 9/8/2022

**PAVEMENT MARKING NOTES:**

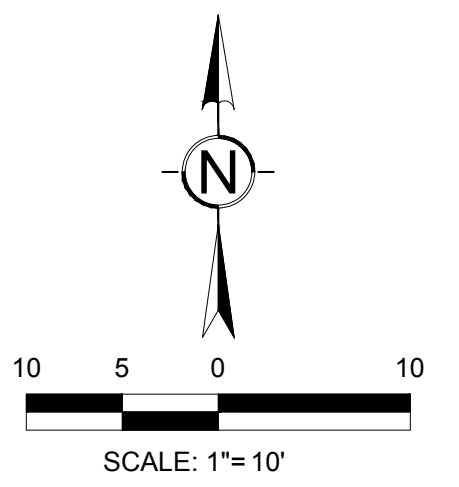
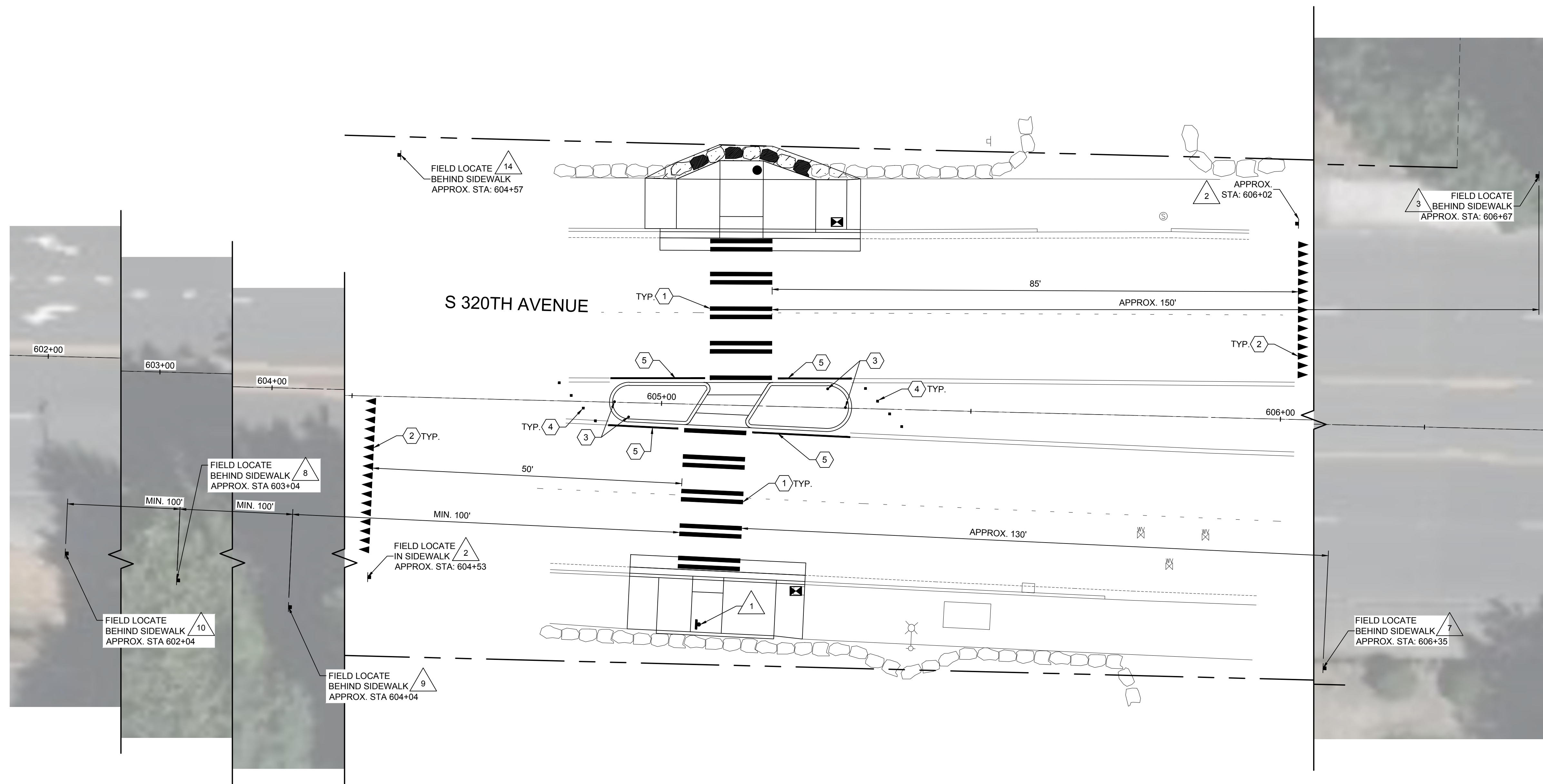
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DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
PAVEMENT MARKING AND SIGNAGE PLAN  
LOCATION 6: SW 320TH ST AT 45TH PL SW

CITY PROJECT #: <b>36234</b>
SHEET <b>C-306</b>
<b>24</b> OF 37

H:\210002\027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\21027C-305-308.dwg, 9/8/2022



**PAVEMENT MARKING NOTES:**

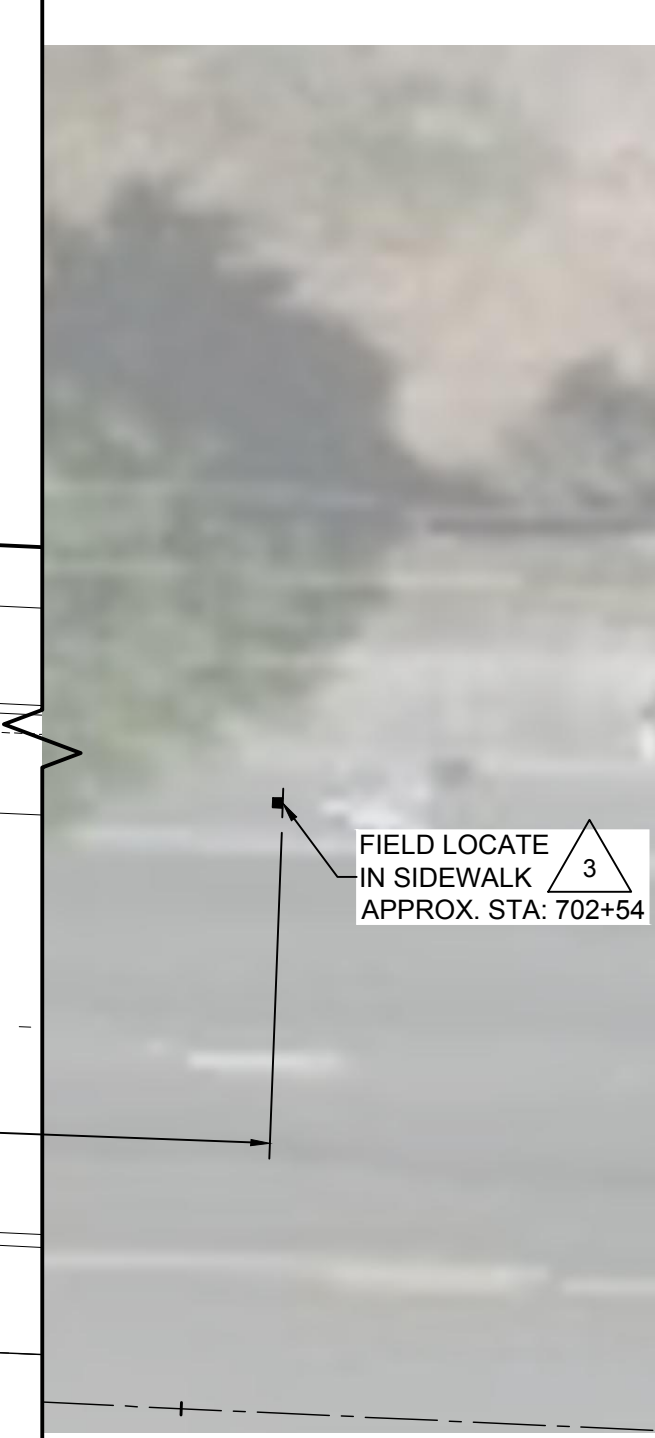
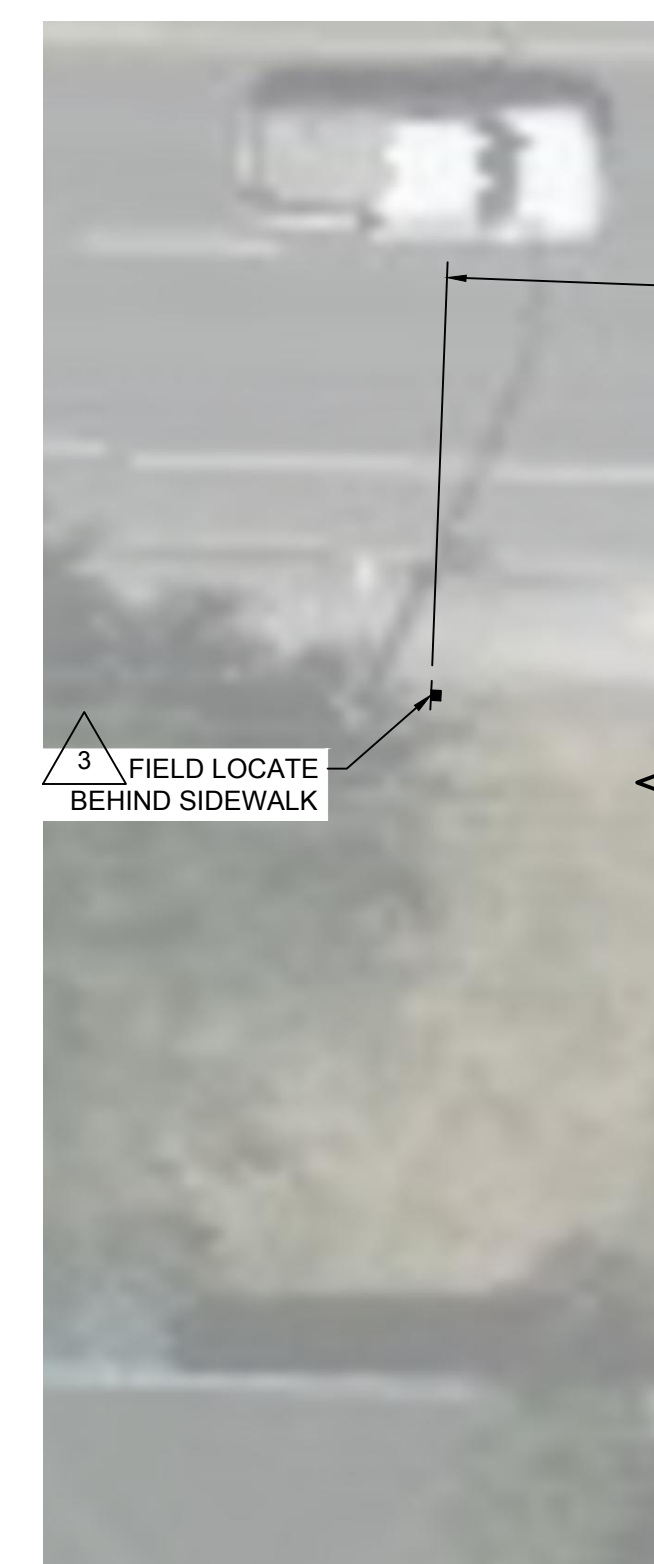
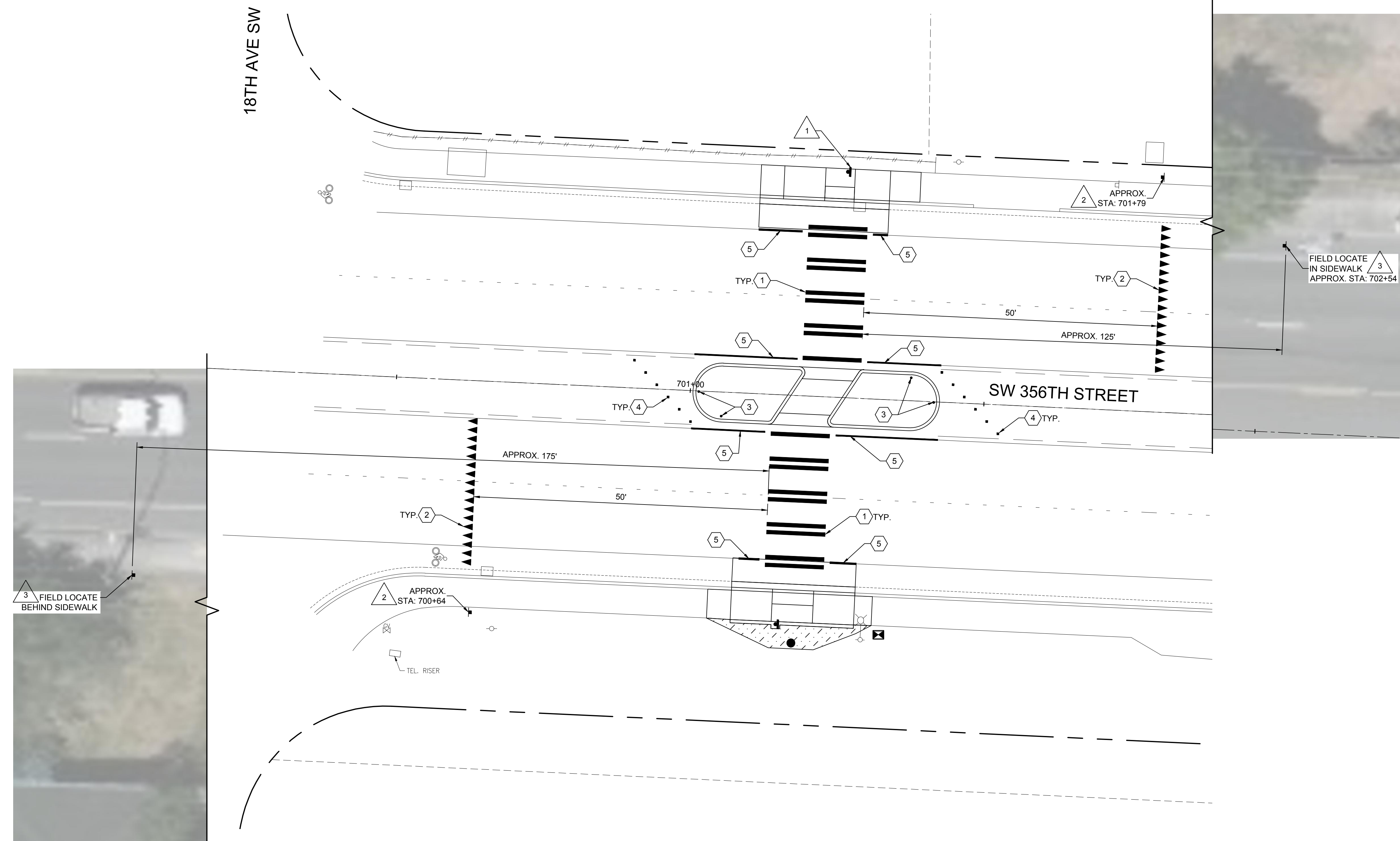
- ① PLASTIC CROSSWALK LINE PER CITY OF FEDERAL WAY DWG NO 3-21.
- ② PLASTIC TYPE 1 YIELD LINE SYMBOLS PER WSDOT STD PLAN M-24.60-04 LOCATED MINIMUM 50' IN ADVANCE OF MARKED CROSSWALK.
- ③ 28" TUBULAR MARKER. REFER TO SPECIAL PROVISIONS.
- ④ TYPE 2Y RPM. REFER TO SPECIAL PROVISIONS.
- ⑤ 4" PLASTIC TYPE D EDGE LINE.
- ⑥ CONVERT REMAINDER OF TWO WAY LEFT TURN LANE TO DOUBLE YELLOW CENTER LINE PER CITY OF FEDERAL WAY DWG NO 3-17.
- ⑦ 4" PLASTIC TYPE D LANE LINE PER CITY OF FEDERAL WAY DWG NO 3-18.

**GENERAL SIGNAGE NOTES:**

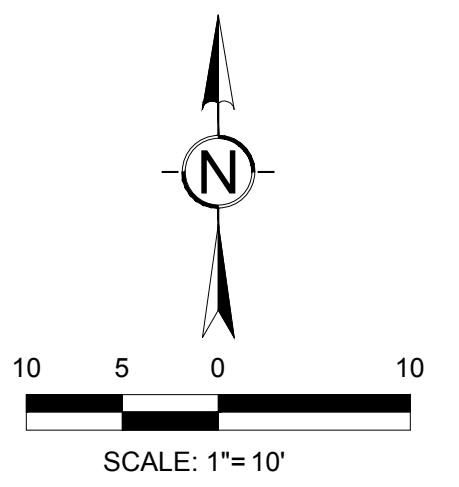
- 1. INSTALL SIGNS IN ACCORDANCE WITH FEDERAL WAY DWG NO 3-17 AND 3-18. SIGNS WITHIN EXISTING SIDEWALK SHALL BE SURFACE MOUNTED.
- 2. EDGE OF SIGN SHALL BE A MINIMUM OF 2' FROM FACE OF CURB AND BOTTOM OF SIGN SHALL BE A MINIMUM OF 7' ABOVE FINISHED GRADE.

**SIGNAGE NOTES:**

- ① RRFB ASSEMBLY. REFER TO RRFB PLANS.
- ② YIELD HERE TO PEDESTRIANS SIGN (R1-5A). ALIGN WITH YIELD LINE SYMBOLS.
- ③ PEDESTRIAN SIGN (W11-2). LOCATE MINIMUM 100' IN ADVANCE OF MARKED CROSSWALK.
- ④ RELOCATED SR509 NORTH SIGN.
- ⑤ APPROXIMATE LOCATION OF EXISTING SCHOOL ZONE AHEAD SIGN.
- ⑥ PEDESTRIAN SIGN (W11-2). LOCATE MINIMUM 100' IN ADVANCE OF EXISTING SCHOOL ZONE AHEAD SIGN.
- ⑦ RELOCATE EXISTING SCHOOL ZONE AHEAD SIGN MINIMUM 100' FROM MARKED CROSSWALK AND MINIMUM 100' IN ADVANCE OF SCHOOL ZONE.
- ⑧ RELOCATE EXISTING REDUCED SCHOOL SPEED LIMIT AHEAD SIGN MINIMUM 100' IN ADVANCE OF PEDESTRIAN WARNING SIGN.
- ⑨ PEDESTRIAN SIGN (W11-2). LOCATE MINIMUM 100' IN ADVANCE OF MARKED CROSSWALK.
- ⑩ RELOCATE EXISTING SPEED LIMIT SIGN MINIMUM 100' IN ADVANCE OF PROPOSED PEDESTRIAN SIGN.
- ⑪ RELOCATED WELCOME TO FEDERAL WAY SIGNS.
- ⑫ RELOCATE EXISTING SPEED LIMIT SIGN MINIMUM 100' IN ADVANCE OF PEDESTRIAN SIGN.
- ⑬ INSTALL ON SIDEWALK PER CITY OF TACOMA STANDARD PLAN SU-34.
- ⑭ RELOCATE EXISTING STOP AHEAD SIGN MINIMUM 50' AFTER MARKED CROSSWALK.



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DRAFTED: RJB  
DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



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**CITYWIDE PEDESTRIAN SAFETY**  
PAVEMENT MARKING AND SIGNAGE PLAN  
LOCATION 7: SW 356TH ST AT 18TH AVE SW

CITY PROJECT #:  
**36234**  
SHEET  
**C-307**  
25 OF 37

H:\210002\1027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\21027C-305-308.dwg, 9/8/2022

**PAVEMENT MARKING NOTES:**

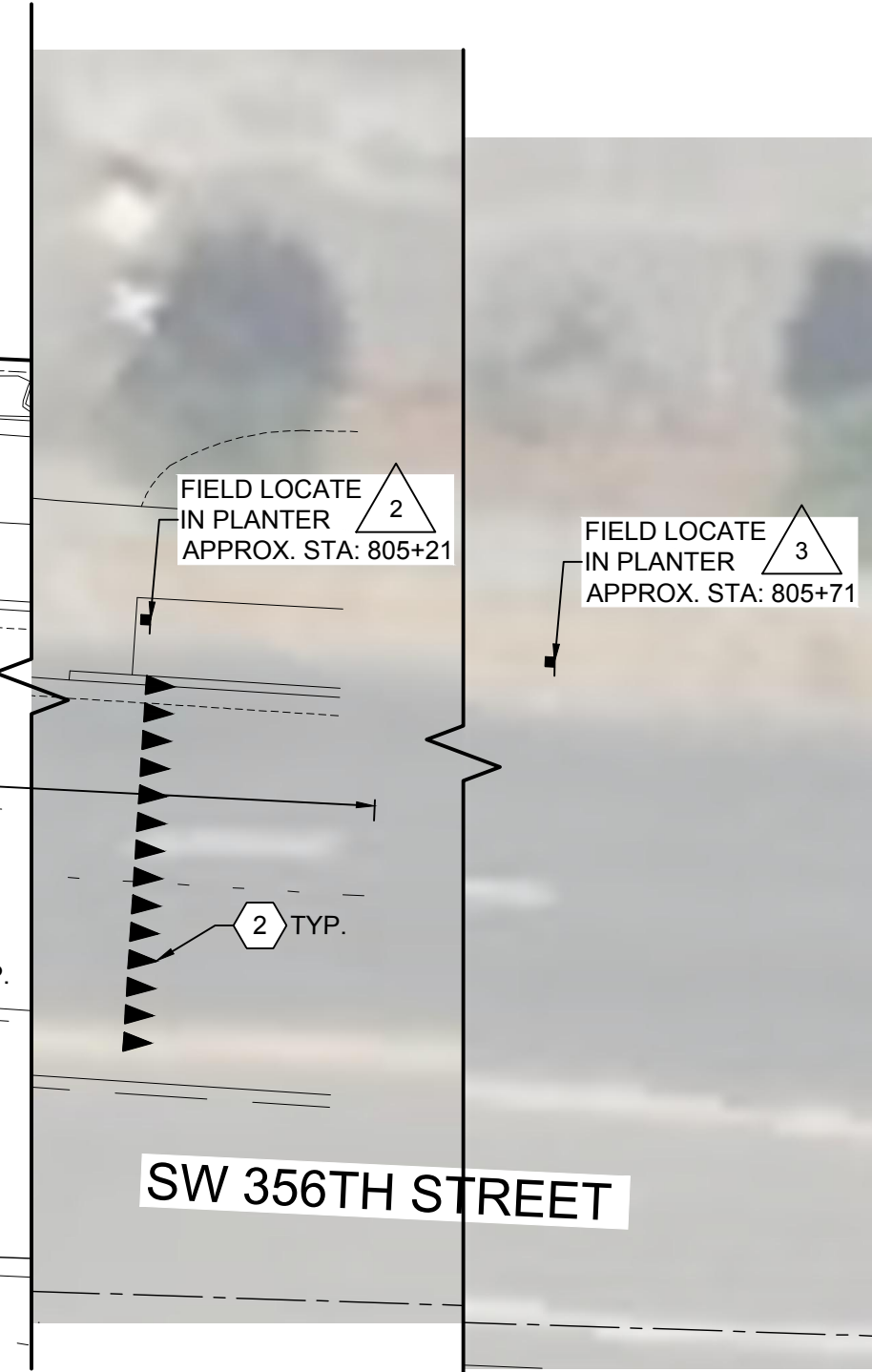
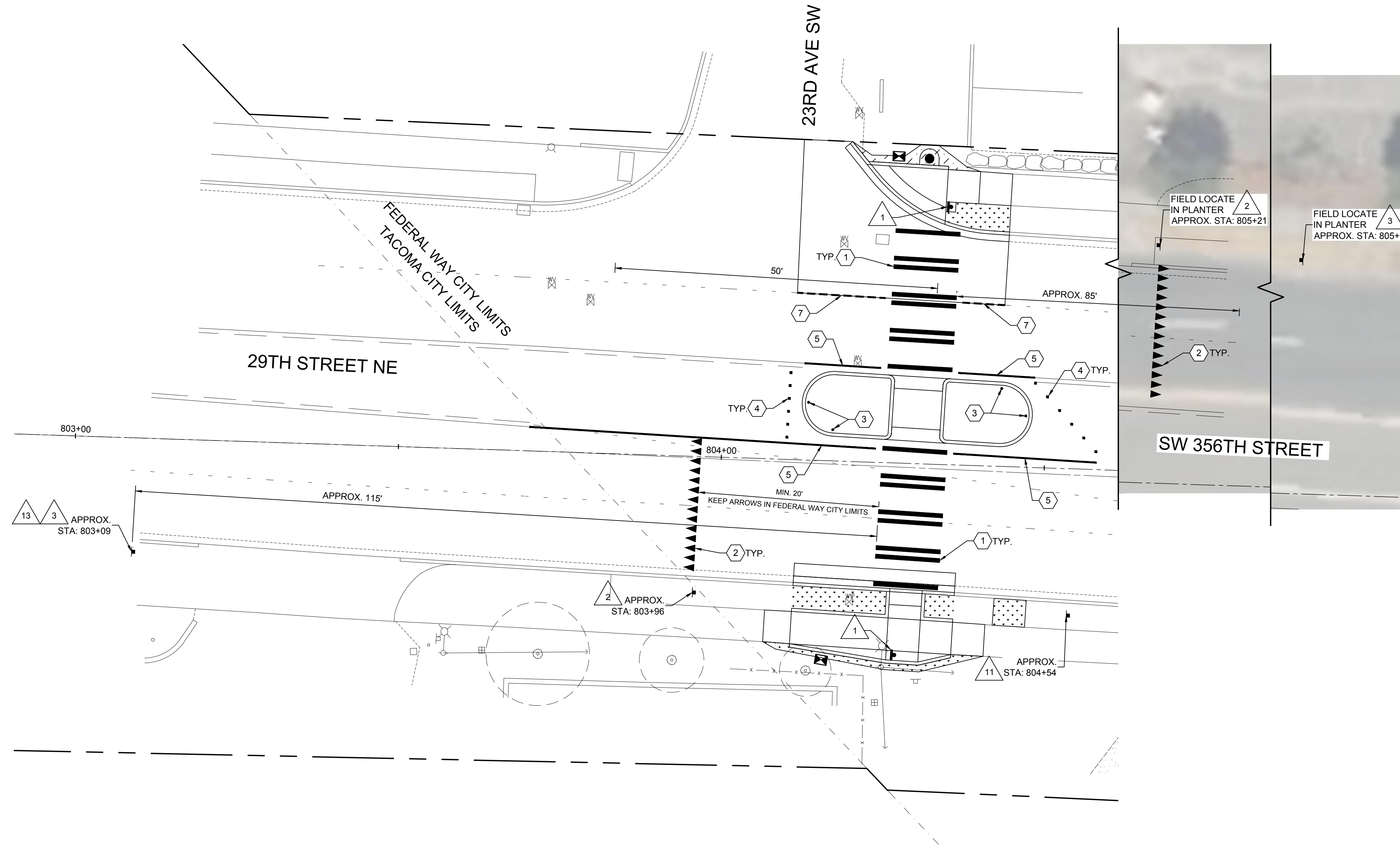
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- ② PLASTIC TYPE 1 YIELD LINE SYMBOLS PER WSDOT STD PLAN M-24.60-04 LOCATED MINIMUM 50' IN ADVANCE OF MARKED CROSSWALK.
- ③ 28" TUBULAR MARKER. REFER TO SPECIAL PROVISIONS.
- ④ TYPE 2Y RPM. REFER TO SPECIAL PROVISIONS.
- ⑤ 4" PLASTIC TYPE D EDGE LINE.
- ⑥ CONVERT REMAINDER OF TWO WAY LEFT TURN LANE TO DOUBLE YELLOW CENTER LINE PER CITY OF FEDERAL WAY DWG NO 3-17.
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**GENERAL SIGNAGE NOTES:**

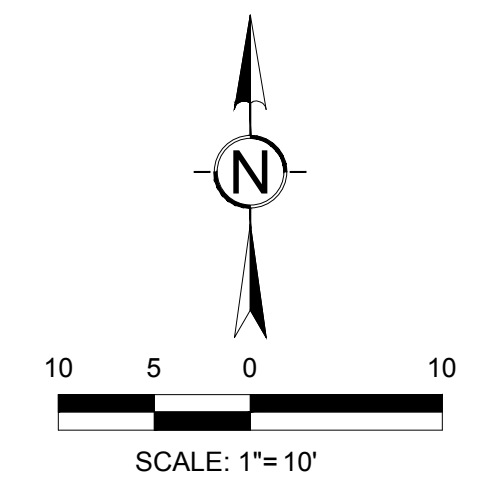
- 1. INSTALL SIGNS IN ACCORDANCE WITH FEDERAL WAY DWG NO 3-17 AND 3-18. SIGNS WITHIN EXISTING SIDEWALK SHALL BE SURFACE MOUNTED.
- 2. EDGE OF SIGN SHALL BE A MINIMUM OF 2' FROM FACE OF CURB AND BOTTOM OF SIGN SHALL BE A MINIMUM OF 7' ABOVE FINISHED GRADE.

**SIGNAGE NOTES:**

- ① RRFB ASSEMBLY. REFER TO RRFB PLANS.
- ② YIELD HERE TO PEDESTRIANS SIGN (R1-5A). ALIGN WITH YIELD LINE SYMBOLS.
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- ④ RELOCATED SR509 NORTH SIGN.
- ⑤ APPROXIMATE LOCATION OF EXISTING SCHOOL ZONE AHEAD SIGN.
- ⑥ PEDESTRIAN SIGN (W11-2). LOCATE MINIMUM 100' IN ADVANCE OF EXISTING SCHOOL ZONE AHEAD SIGN.
- ⑦ RELOCATE EXISTING SCHOOL ZONE AHEAD SIGN MINIMUM 100' FROM MARKED CROSSWALK AND MINIMUM 100' IN ADVANCE OF SCHOOL ZONE.
- ⑧ RELOCATE EXISTING REDUCED SCHOOL SPEED LIMIT AHEAD SIGN MINIMUM 100' IN ADVANCE OF PEDESTRIAN WARNING SIGN.
- ⑨ PEDESTRIAN SIGN (W11-2). LOCATE MINIMUM 100' IN ADVANCE OF MARKED CROSSWALK.
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- ⑪ RELOCATED WELCOME TO FEDERAL WAY SIGNS.
- ⑫ RELOCATE EXISTING SPEED LIMIT SIGN MINIMUM 100' IN ADVANCE OF PEDESTRIAN SIGN.
- ⑬ INSTALL ON SIDEWALK PER CITY OF TACOMA STANDARD PLAN SU-34.
- ⑭ RELOCATE EXISTING STOP AHEAD SIGN MINIMUM 50' AFTER MARKED CROSSWALK.



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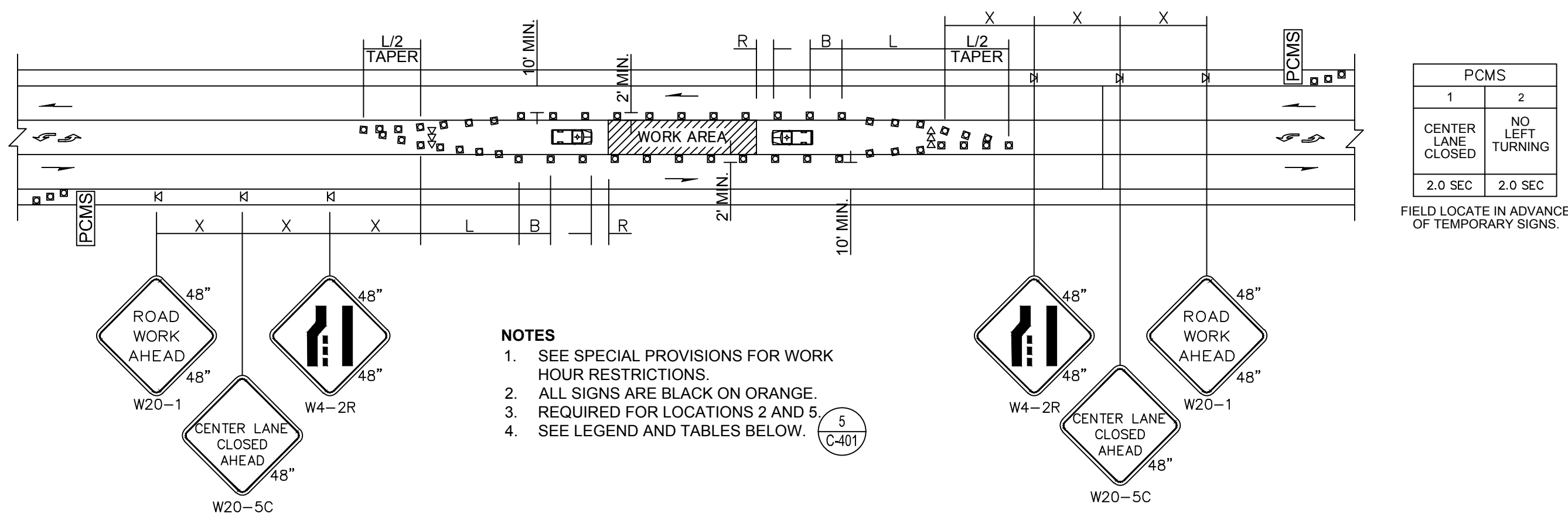


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**CITYWIDE PEDESTRIAN SAFETY**  
PAVEMENT MARKING AND SIGNAGE PLAN  
LOCATION 8: SW 356TH ST AT 23RD AVE SW

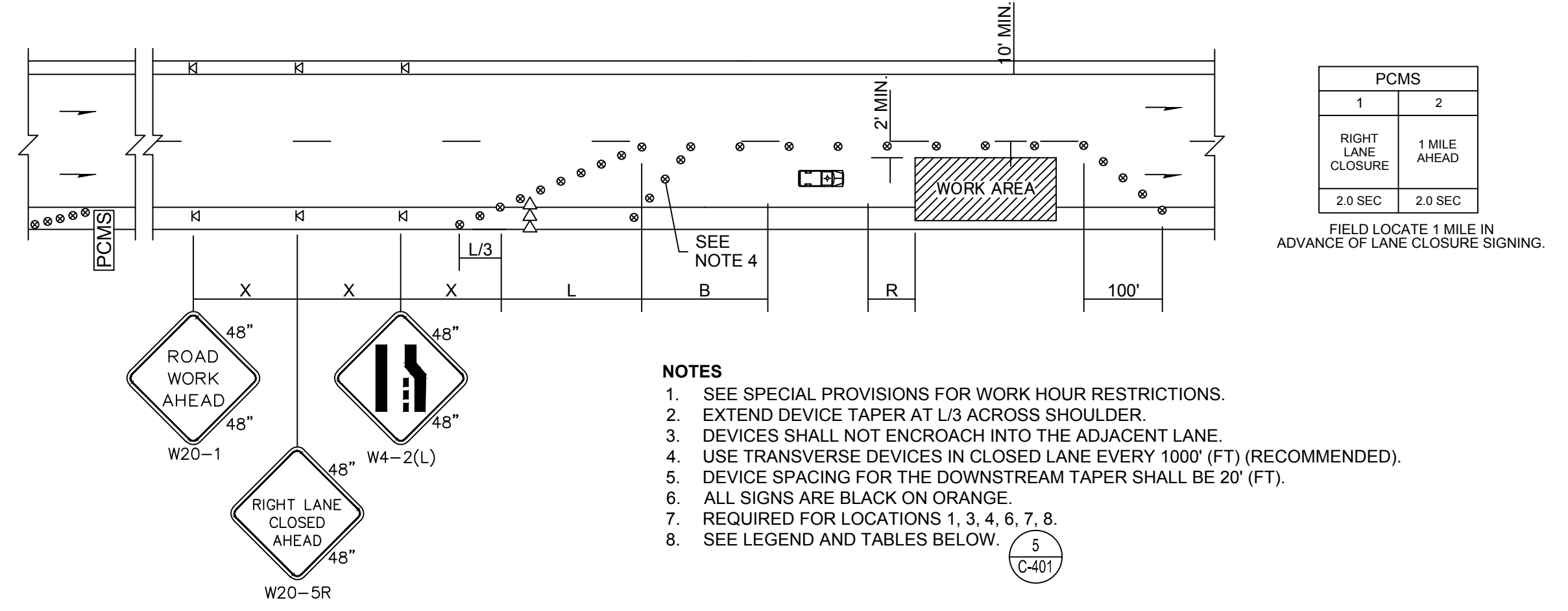
CITY PROJECT #:  
**36234**  
SHEET  
**C-308**  
26 OF 37

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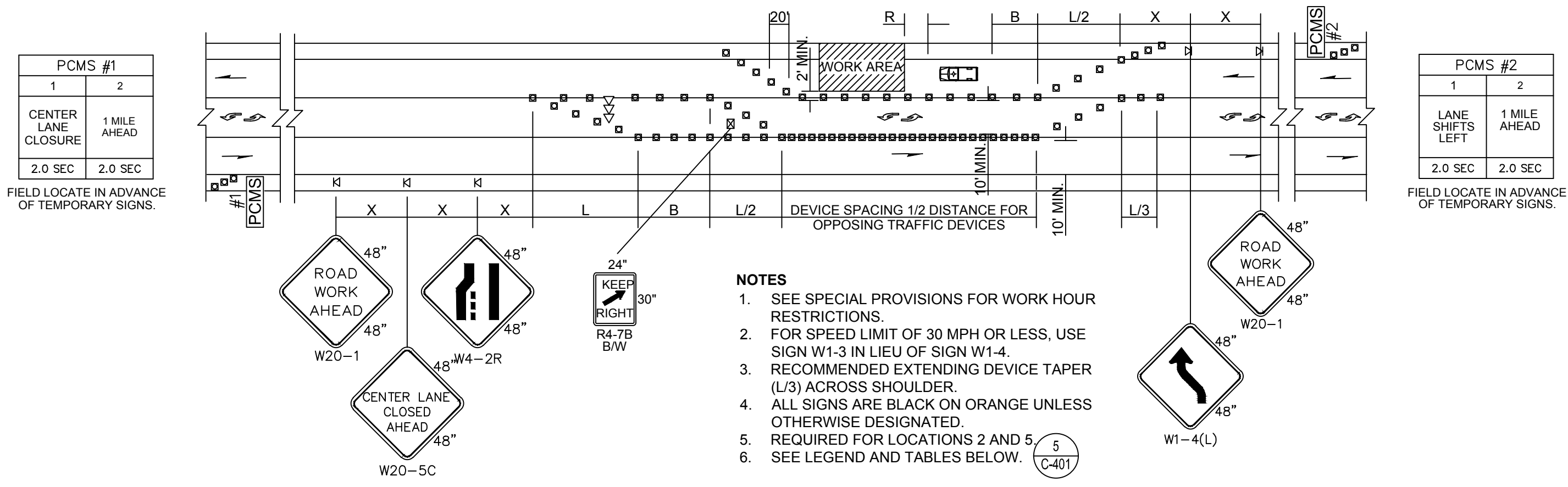
**CENTER LANE CLOSURE - THREE LANE ROADWAY**  
LOCATIONS 2 AND 5

SCALE: NTS **1**



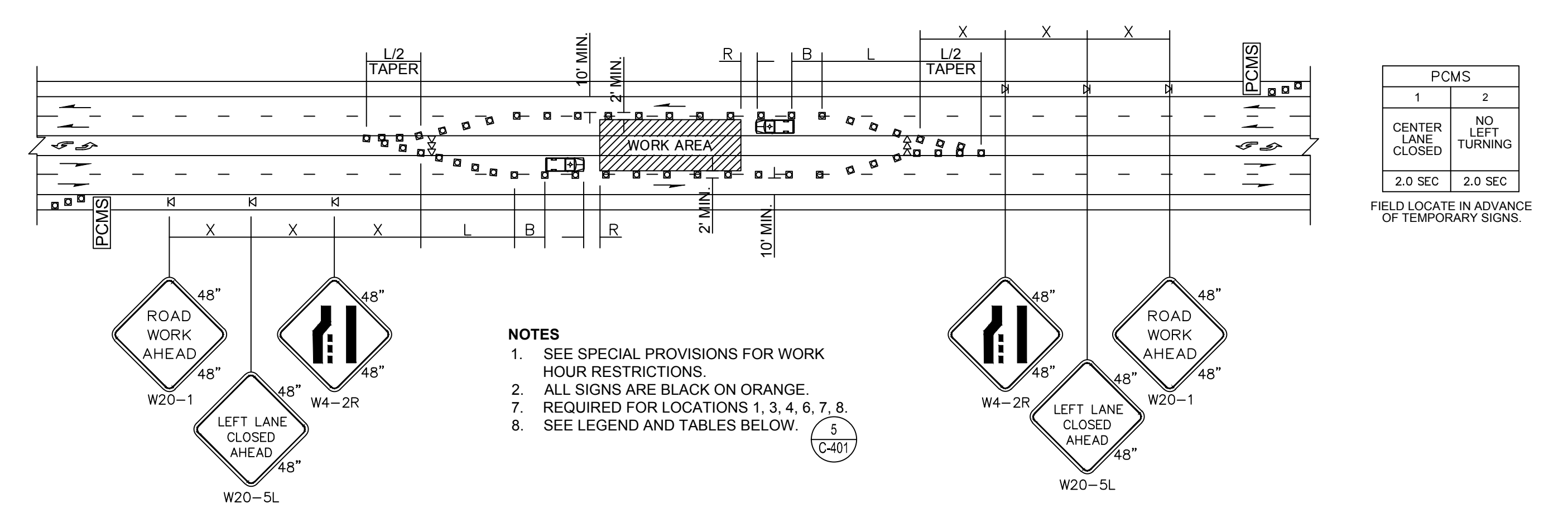
**SINGLE-LANE CLOSURE FOR MUTI-LANE ROADWAYS**  
LOCATIONS 1, 3, 4, 6, 7, AND 8

SCALE: NTS **2**



**LANE SHIFT - THREE LANE ROADWAY**  
LOCATIONS 2 AND 5

SCALE: NTS **3**



**LEFT AND CENTER TURN LANE CLOSURE**  
LOCATIONS 1, 3, 4, 6, 7, AND 8

SCALE: NTS **4**

**LEGEND**

- K TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- ⊙ TRAFFIC SAFETY DRUM
- ⇨ SEQUENTIAL ARROW SIGN
- ▭ PROTECTIVE VEHICLE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ⊠ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

**MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)**

LANE WIDTH (feet)	Posted Speed (mph)						
	25	30	35	40	45	50	55
10	105	150	205	270	450	500	550
11	115	165	225	295	495	550	605
12	125	180	245	320	540	600	660

**MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)**

SHOULDER WIDTH (feet)	Posted Speed (mph)						
	25	30	35	40	45	50	55
8'	40	40	60	90	120	130	150
10'	40	60	90	150	170	190	220

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

**SIGN SPACING = X (1)**

FREWAYS & 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'
URBAN STREETS	25 MPH OR LESS	100'

(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**

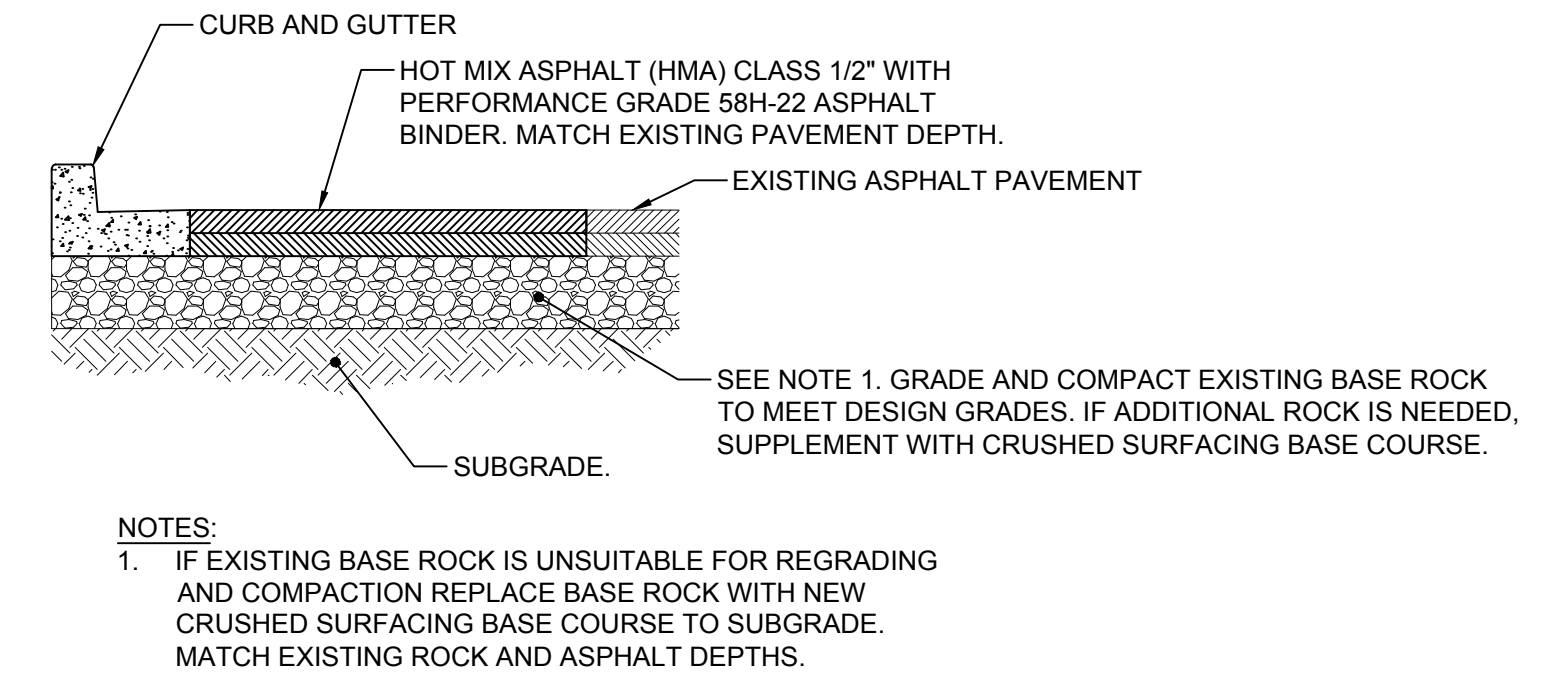
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

**TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R**

HOST VEHICLE WEIGHT	< 45 MPH		> 45 MPH	
	9,000 TO 22,000 lbs.	> 22,000 lbs.	< 45 MPH	> 45 MPH
100'	123'	172'	74'	100'

**PROTECTIVE VEHICLE (WORK VEHICLE) = R**

NO SPECIFIED DISTANCE REQUIRED



**HMA PAVEMENT**

SCALE: NTS **6**

**LANE CLOSURE LEGEND AND TABLES**

**GENERAL NOTES:**

- SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- OVERNIGHT LANE CLOSURES ARE NOT ALLOWED. FOR CURB AND GUTTER REPLACEMENTS, REMOVE PAVEMENT 1' FROM EDGE OF GUTTER AND BACKFILL WITH CSTC TO WITHIN 0.2' OF ADJACENT PAVEMENT GRADE AT END OF DAY.

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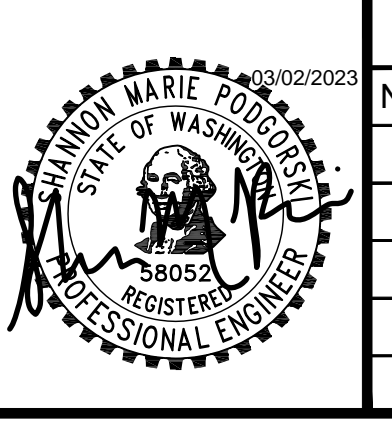
**RFB #23-008**

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DESIGNED: MB/SMP  
REVIEWED: JBD  
APPROVED:



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NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
DETAILS AND TRAFFIC CONTROL

CITY PROJECT #: 36234  
SHEET C-401  
27 OF 37

H:\210002\1027.00.00 - FW Citywide Ped Safety\6-BIM-CAD\3-Civil\BCRA\Production Dwg\CS-C-401 DETAILS AND TRAFFIC CONTROL.dwg, 9/8/2022

**CONSTRUCTION NOTES:**

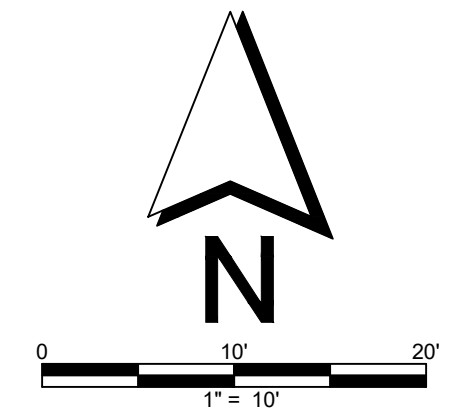
- 1 FW RRFB SIGNAL STANDARD POLE WITH SINGLE OR DOUBLE SIDED SOLAR RRFB ASSEMBLY PER PLAN, PER WSDOT IS-22 (SHEET 2 OF 2), AND PER SHEET IL-109.
- 2 REMOVE EXISTING POLE AND FOUNDATION. CAP CONDUITS.
- 3 STANDARD TYPE III MAST ARM POLE PER WSDOT IS-13B AND PER SHEETS IL-109 AND IL-110 WITH SOLAR RRFB ASSEMBLY.
- 4 SIGNAL STANDARD FOUNDATION PER WSDOT J-26.15-01 (SHEET 3 OF 3) "FOUNDATION WITHIN THE SIDEWALK SECTION OR TRAFFIC ISLAND SECTION" AND WSDOT J-26.10-03. TOP OF FOUNDATION SHALL BE FINISHED FLUSH WITH ADJACENT SIDEWALK.
- 6 FW RRFB SIGNAL STANDARD POLE FOUNDATION IN ACCORDANCE WITH THE RRFB FOUNDATION DETAIL ON SHEET IL-110.
- 8 CONTRACTOR SHALL POTHOLE AND NOTIFY ENGINEER IF CONFLICT EXISTS.
- 9 INSTALL NEW CONDUIT INTO EXISTING JUNCTION BOX.
- 12 REPLACE JUNCTION BOX WITH NEW JUNCTION BOX WITH SLIP RESISTANT LID IN NEW LOCATION. INTERCEPT EXISTING CONDUIT RUN AND EXTEND TO NEW JUNCTION BOX. CONTRACTOR TO VERIFY CONDUIT SIZE AND TYPE AND SUPPLY ANY NECESSARY ADAPTOR FITTINGS. PROTECT EXISTING CONDUCTORS AND PULL INTO TO NEW JUNCTION BOX PER PLAN.
- 21 SPLICE NEW AND EXISTING LIGHTING CONDUCTORS FOR NEW STREET LIGHT ADDED TO EXISTING CIRCUIT.

WIRING SCHEDULE						
RUN NO.	CONDUIT SIZE/TYPE	PPB CABLE	ILLUM	GRND	PULL TAPE	COMMENTS
			#8	#8		
1	NEW 2"		2	1		
	NEW 2"				1	SPARE
2	NEW 2"			1	1	SPARE
3	NEW 2"		2	1		
4	EX.	1	2 EX.	1		
5	NEW 1"	1		1		
6	NEW 2"	1		1		
	NEW 2"				1	SPARE
7	NEW 2"		2	1		
	NEW 2"	1		1		

Note 1. Only proposed conductors shown.  
 Note 2. Ground wire shall be equal to or larger than largest conductor in conduit.  
 Note 3. New circuit wiring shall be aluminum. For lights installed on existing circuits, wiring material shall match existing wiring material (copper or aluminum) and shall match existing wiring size. Contractor shall notify engineer if there is a discrepancy between the Wiring Schedule and the field conditions.  
 Note 4. Conduits installed under travelled way shall be schedule 80. All other conduits shall be schedule 40.

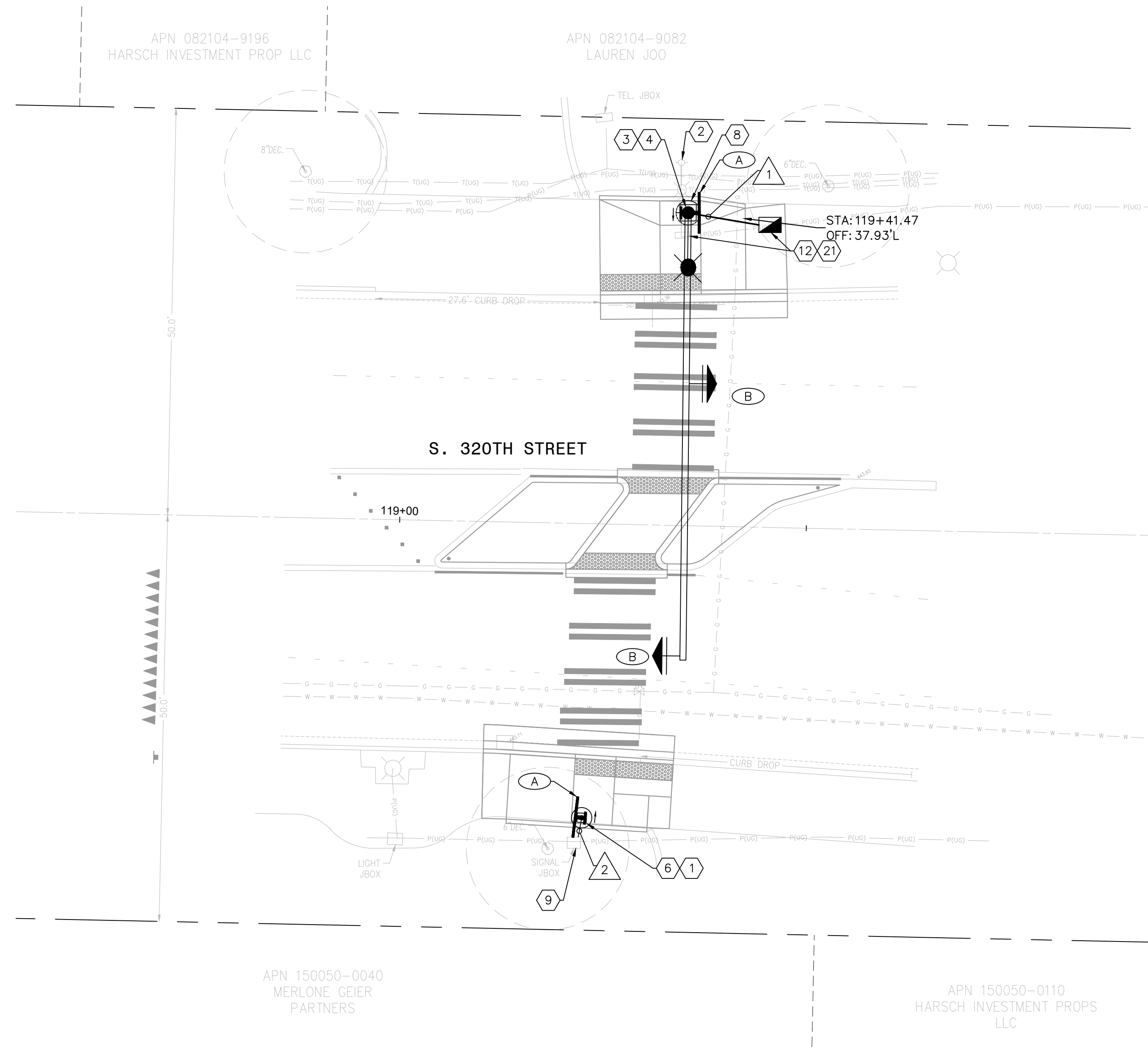
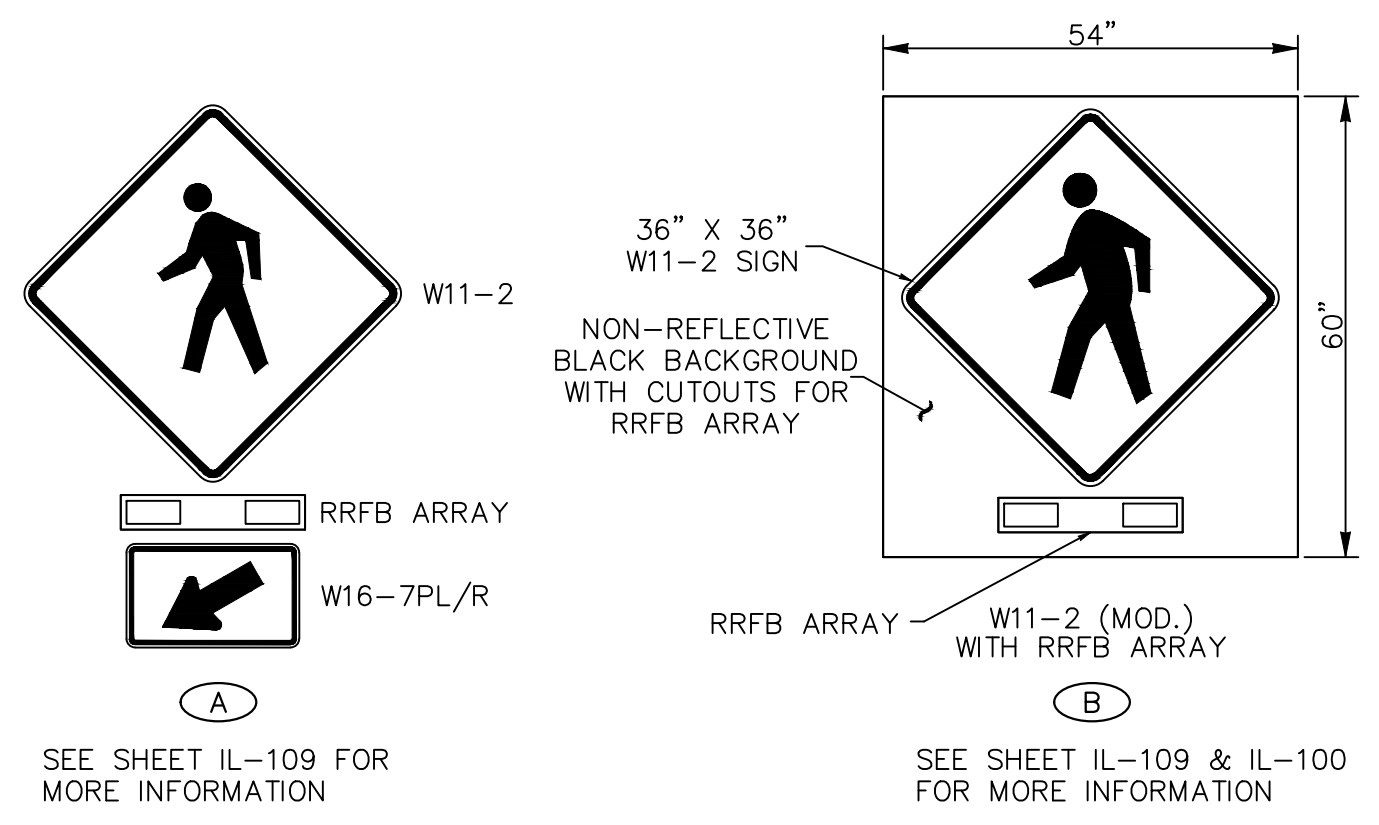
**GENERAL NOTES:**

1. JUNCTION BOXES INSTALLED OUTSIDE OF THE SIDEWALK SHALL BE SURROUNDED BY A CONCRETE PAD PER CITY OF FEDERAL WAY STANDARD DRAWING 3-39A.
2. NEW POLES WITH LUMINAIRES SHALL BE NUMBERED PER FEDERAL WAY STANDARD DRAWING NUMBER 3-39B.



**LEGEND:**

STREET LIGHT	
MAST ARM POLE	
FW RRFB POLE	
PED PUSH BUTTON	
CONSTRUCTION NOTE	
WIRE NOTE	
UNDERGROUND CONDUIT	
TYPE 1 JB	
TYPE 2 JB	
SERVICE ENCLOSURE	
OVERHEAD RRFB/SIGN	
POST MOUNTED RRFB/SIGNS	



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APPROVED:	

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NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**

**RRFB SYSTEM**

**LOCATION 1: S 320TH ST - 1400 BLOCK**

CITY PROJECT #:	36234
SHEET	IL-101
	28 OF 37

**CONSTRUCTION NOTES:**

- 1 FW RRFB SIGNAL STANDARD POLE WITH SINGLE OR DOUBLE SIDED SOLAR RRFB ASSEMBLY PER PLAN, PER WSDOT IS-22 (SHEET 2 OF 2), AND PER SHEET IL-109.
- 8 CONTRACTOR SHALL POTHOLE AND NOTIFY ENGINEER IF CONFLICT EXISTS.
- 9 INSTALL NEW CONDUIT INTO EXISTING JUNCTION BOX.
- 10 ABANDON LOOP.
- 19 FW RRFB SIGNAL STANDARD POLE FOUNDATION IN ACCORDANCE WITH THE RRFB CURB FOUNDATION DETAIL ON SHEET IL-110.

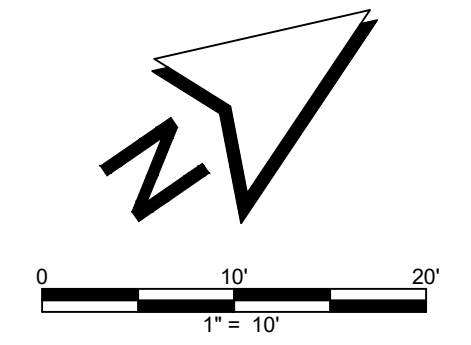
**WIRING SCHEDULE**

RUN NO.	CONDUIT SIZE/TYPE	PPB CABLE	ILLUM	GRND	PULL TAPE	COMMENTS
			#8	#8		
1	NEW 2"		2	1		
2	NEW 2"			1	1	SPARE
3	NEW 2"		2	1		
4	EX.		2 EX.	1		
5	NEW 1"	1		1		
6	NEW 2"	1		1		
	NEW 2"			1	1	SPARE
7	NEW 2"		2	1		
	NEW 2"	1		1		

Note 1. Only proposed conductors shown.  
 Note 2. Ground wire shall be equal to or larger than largest conductor in conduit.  
 Note 3. New circuit wiring shall be aluminum. For lights installed on existing circuits, wiring material shall match existing wiring material (copper or aluminum) and shall match existing wiring size. Contractor shall notify engineer if there is a discrepancy between the Wiring Schedule and the field conditions.  
 Note 4. Conduits installed under travelled way shall be schedule 80. All other conduits shall be schedule 40.

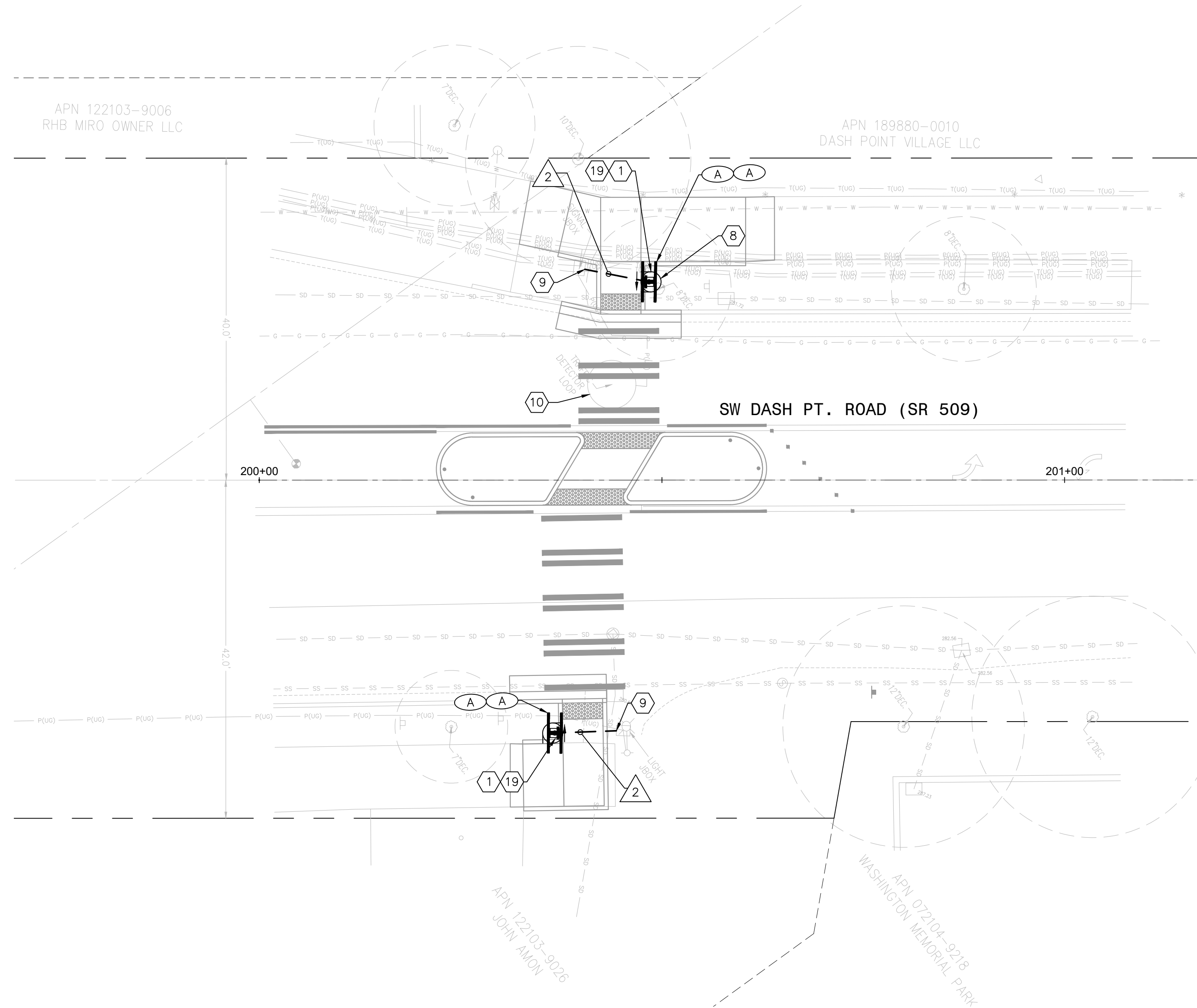
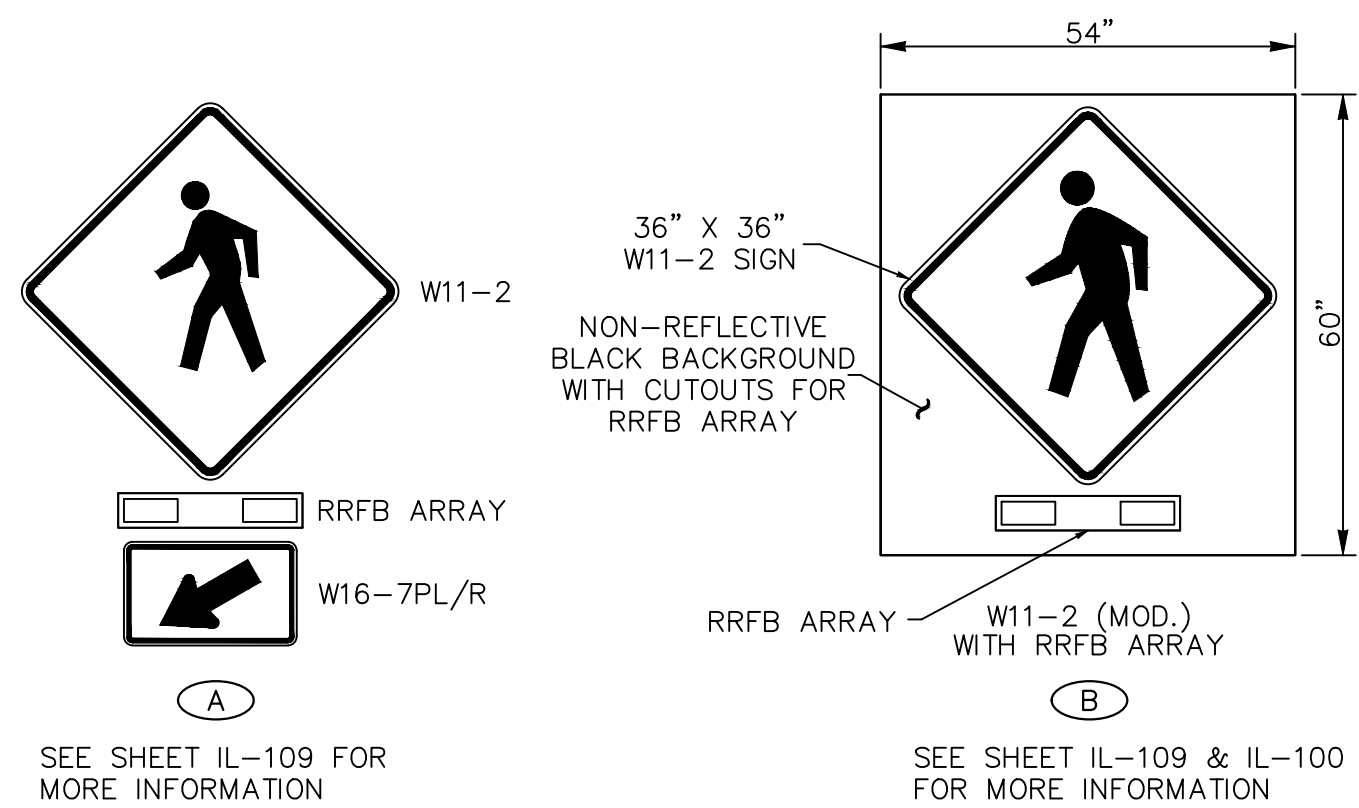
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- 2. NEW POLES WITH LUMINAIRES SHALL BE NUMBERED PER FEDERAL WAY STANDARD DRAWING NUMBER 3-39B.



**LEGEND:**

STREET LIGHT	
MAST ARM POLE	
FW RRFB POLE	
PED PUSH BUTTON	
CONSTRUCTION NOTE	
WIRE NOTE	
UNDERGROUND CONDUIT	
TYPE 1 JB	
TYPE 2 JB	
SERVICE ENCLOSURE	
OVERHEAD RRFB/SIGN	
POST MOUNTED RRFB/SIGNS	



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 DESIGNED: MT  
 REVIEWED: PP  
 APPROVED:

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**DRAWING VERSION / REVISION LOG**

NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**

**RRFB SYSTEM**

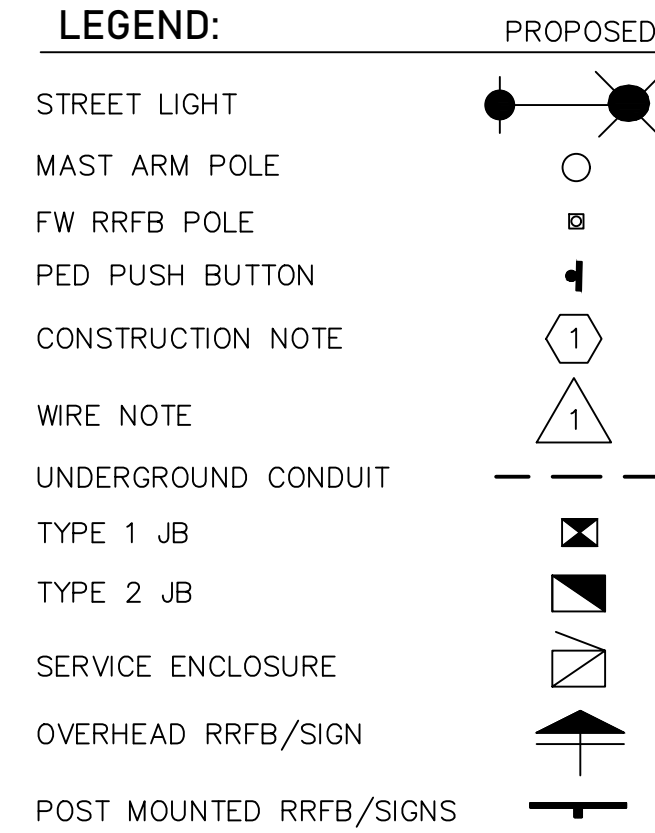
**LOCATION 2: SR 509 SOUTH OF 16TH AVE SW**

CITY PROJECT #: 36234  
 SHEET: IL-102  
 29 OF 37

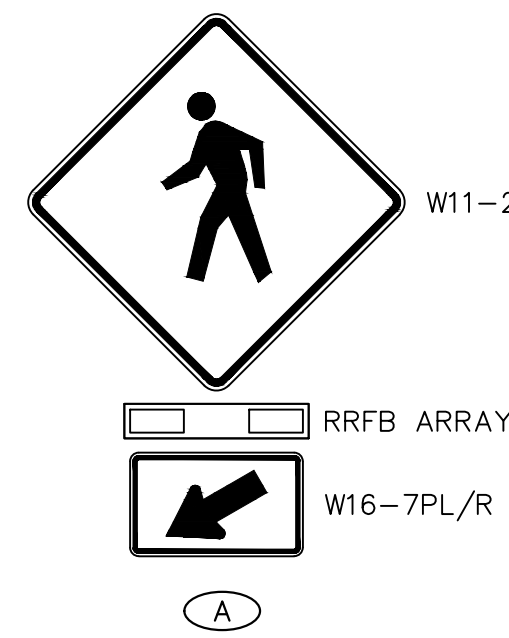
**CONSTRUCTION NOTES:**

- 5 SIGNAL STANDARD FOUNDATION PER WSDOT J-26.10-03. IF FOUNDATION IS ADJACENT TO CURB, TOP OF FOUNDATION SHALL BE FINISHED FLUSH WITH ADJACENT CURB VERTICALLY AND HORIZONTALLY.
- 7 REPLACE EXISTING JUNCTION BOX IN PLACE WITH NEW JUNCTION BOX WITH SLIP RESISTANT LID.
- 13 EXISTING LUMEC ECOSWAP SYSTEM HAS ADJUSTMENT SWITCH TO CHANGE OPERATING WATTAGE. SWITCH TO OPERATE AT 65W RATHER THAN 40W.
- 16 STANDARD TYPE II MAST ARM POLE PER WSDOT IS-13B AND PER SHEETS IL-109 AND IL-110 WITH SOLAR RRFB ASSEMBLY.
- 18 INSTALL PEDESTRIAN PUSH BUTTON POST AND PUSH BUTTON PER WSDOT STANDARD PLAN J-20.10-04 WITH CURB BASE FOUNDATION PER WSDOT STANDARD PLAN J-20.11-03.
- 20 INSTALL SINGLE SIDED SOLAR RRFB ASSEMBLY ON EXISTING DECORATIVE POLE. SOLAR PANEL SHALL BE INSTALLED ON SIDE OF POLE WITH BANDED SIDE POLE MOUNT.

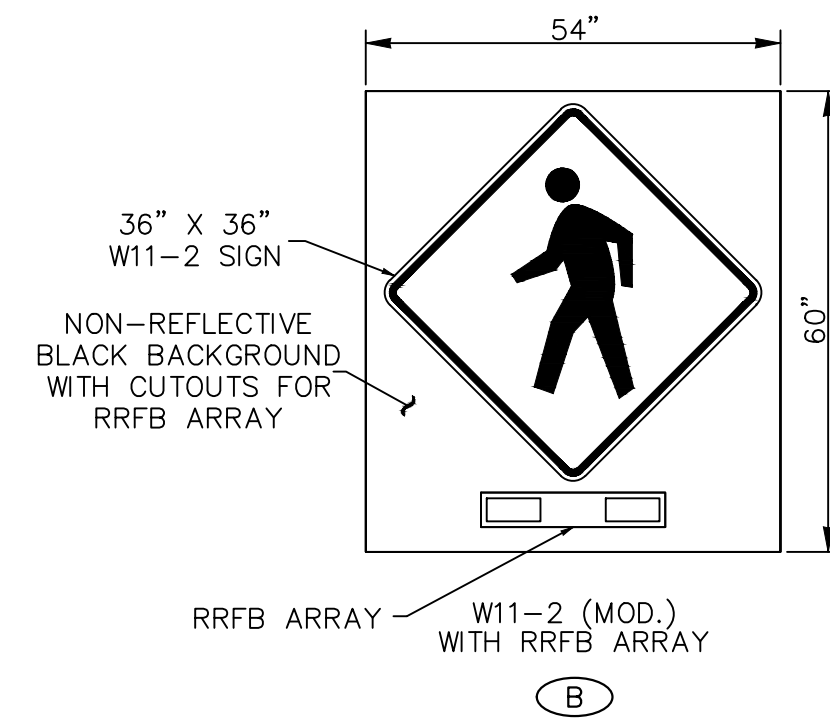
**LEGEND:**



PROPOSED



SEE SHEET IL-109 FOR MORE INFORMATION



SEE SHEET IL-109 & IL-100 FOR MORE INFORMATION

**WIRING SCHEDULE**

RUN NO.	CONDUIT SIZE/TYPE	PPB CABLE	ILLUM	GRND	PULL TAPE	COMMENTS
			#8	#8		
1	NEW 2"		2	1		
2	NEW 2"			1	1	SPARE
3	NEW 2"		2	1		
4	EX.	1	2 EX.	1		
5	NEW 1"	1		1		
6	NEW 2"	1		1	1	SPARE
7	NEW 2"		2	1		
	NEW 2"	1		1		

Note 1. Only proposed conductors shown.

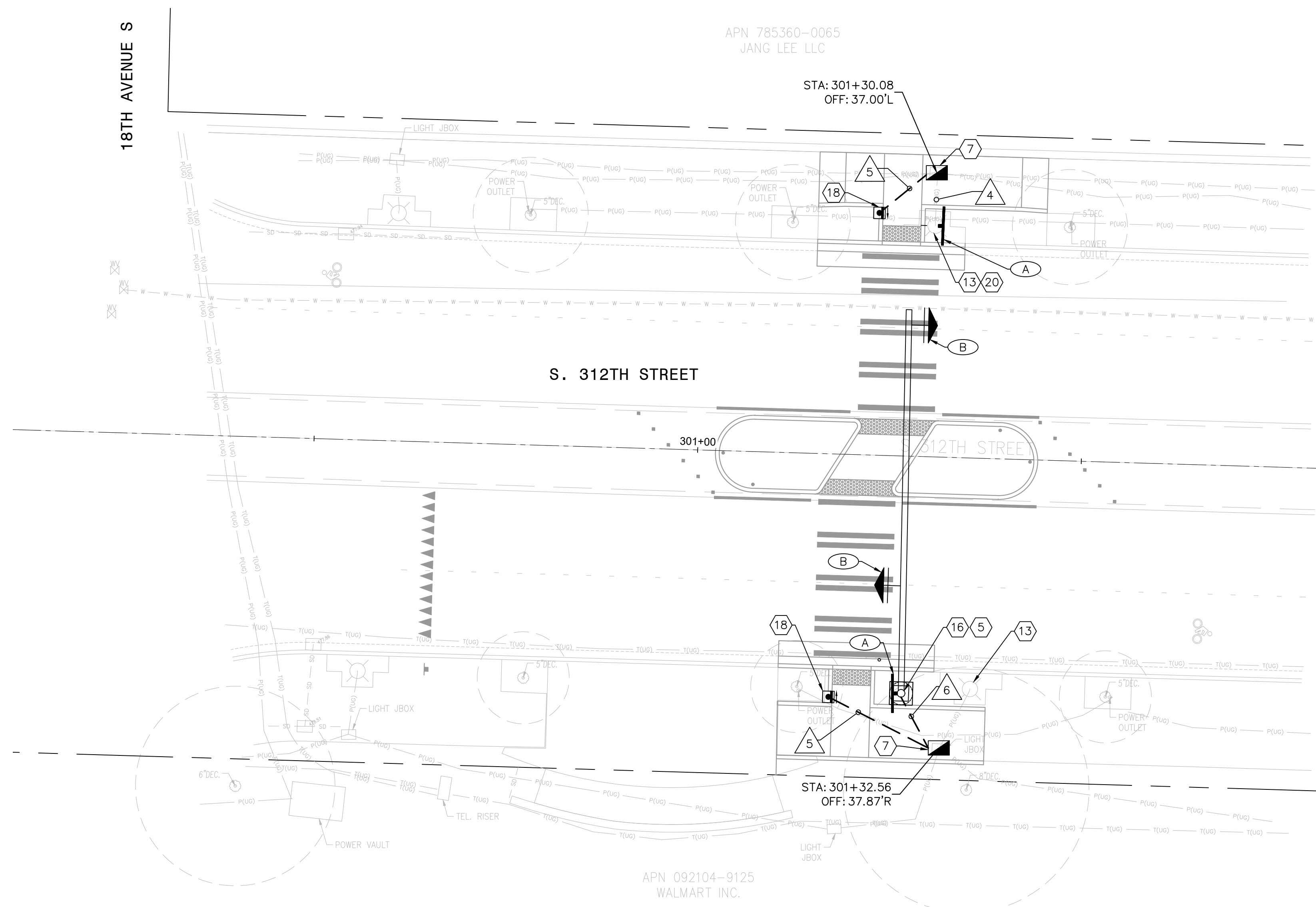
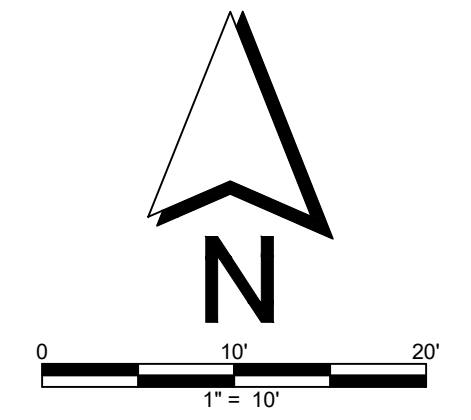
Note 2. Ground wire shall be equal to or larger than largest conductor in conduit.

Note 3. New circuit wiring shall be aluminum. For lights installed on existing circuits, wiring material shall match existing wiring material (copper or aluminum) and shall match existing wiring size. Contractor shall notify engineer if there is a discrepancy between the Wiring Schedule and the field conditions.

Note 4. Conduits installed under travelled way shall be schedule 80. All other conduits shall be schedule 40.

**GENERAL NOTES:**

- 1. JUNCTION BOXES INSTALLED OUTSIDE OF THE SIDEWALK SHALL BE SURROUNDED BY A CONCRETE PAD PER CITY OF FEDERAL WAY STANDARD DRAWING 3-39A.
- 2. NEW POLES WITH LUMINAIRES SHALL BE NUMBERED PER FEDERAL WAY STANDARD DRAWING NUMBER 3-39B.



3/1/23

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NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
**RRFB SYSTEM**  
**LOCATION 3: S 312TH ST AT 18TH AVE S**

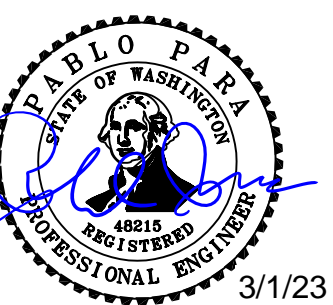
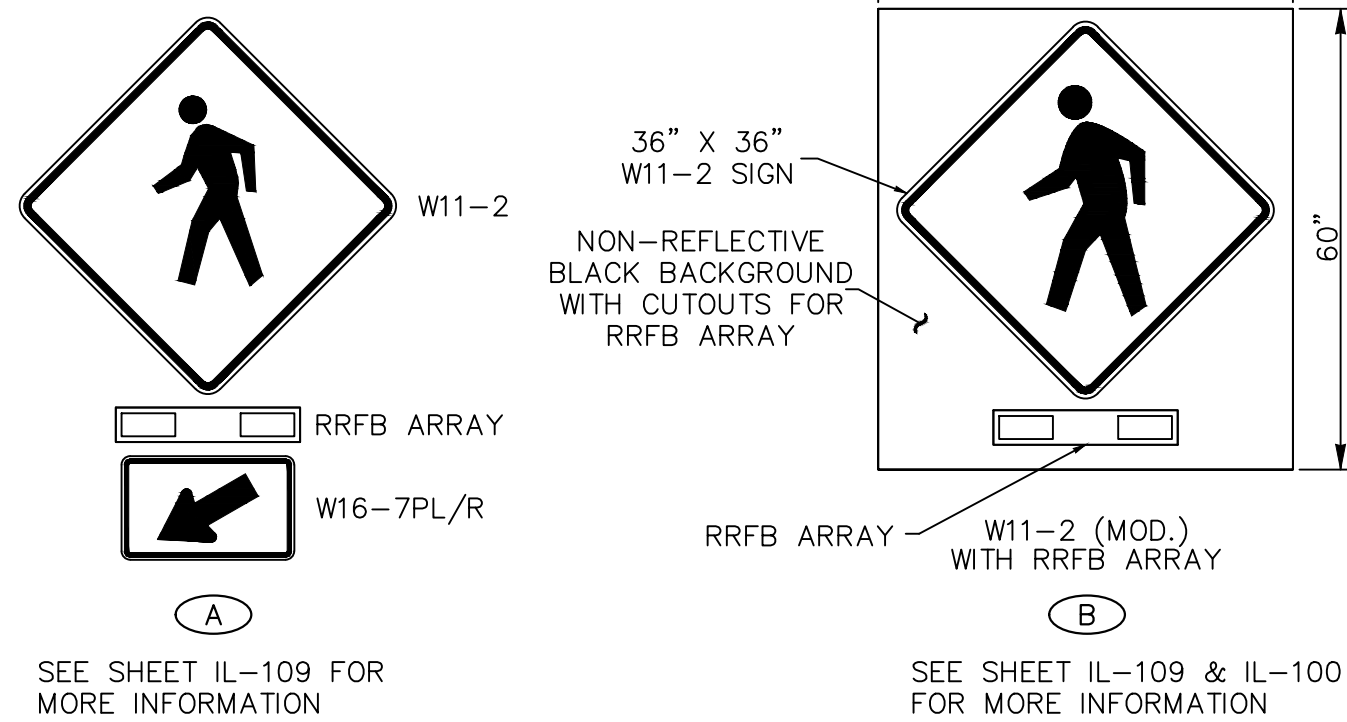
CITY PROJECT #: 36234  
SHEET: IL-103  
30 OF 37

**CONSTRUCTION NOTES:**

- 1 FW RRFB SIGNAL STANDARD POLE WITH SINGLE OR DOUBLE SIDED SOLAR RRFB ASSEMBLY PER PLAN, PER WSDOT IS-22 (SHEET 2 OF 2), AND PER SHEET IL-109.
- 3 STANDARD TYPE III MAST ARM POLE PER WSDOT IS-13B AND PER SHEETS IL-109 AND IL-110 WITH SOLAR RRFB ASSEMBLY.
- 4 SIGNAL STANDARD FOUNDATION PER WSDOT J-26.15-01 (SHEET 3 OF 3) "FOUNDATION WITHIN THE SIDEWALK SECTION OR TRAFFIC ISLAND SECTION" AND WSDOT J-26.10-03. TOP OF FOUNDATION SHALL BE FINISHED FLUSH WITH ADJACENT SIDEWALK.
- 6 FW RRFB SIGNAL STANDARD POLE FOUNDATION IN ACCORDANCE WITH THE RRFB FOUNDATION DETAIL ON SHEET IL-110.
- 8 CONTRACTOR SHALL POTHOLE AND NOTIFY ENGINEER IF CONFLICT EXISTS.
- 9 INSTALL NEW CONDUIT INTO EXISTING JUNCTION BOX.
- 11 INSTALL NEW JUNCTION BOX WITH SLIP RESISTANT LID.
- 21 SPLICE NEW AND EXISTING LIGHTING CONDUCTORS FOR NEW STREET LIGHT ADDED TO EXISTING CIRCUIT.

**LEGEND:**

STREET LIGHT	
MAST ARM POLE	
FW RRFB POLE	
PED PUSH BUTTON	
CONSTRUCTION NOTE	
WIRE NOTE	
UNDERGROUND CONDUIT	
TYPE 1 JB	
TYPE 2 JB	
SERVICE ENCLOSURE	
OVERHEAD RRFB/SIGN	
POST MOUNTED RRFB/SIGNS	



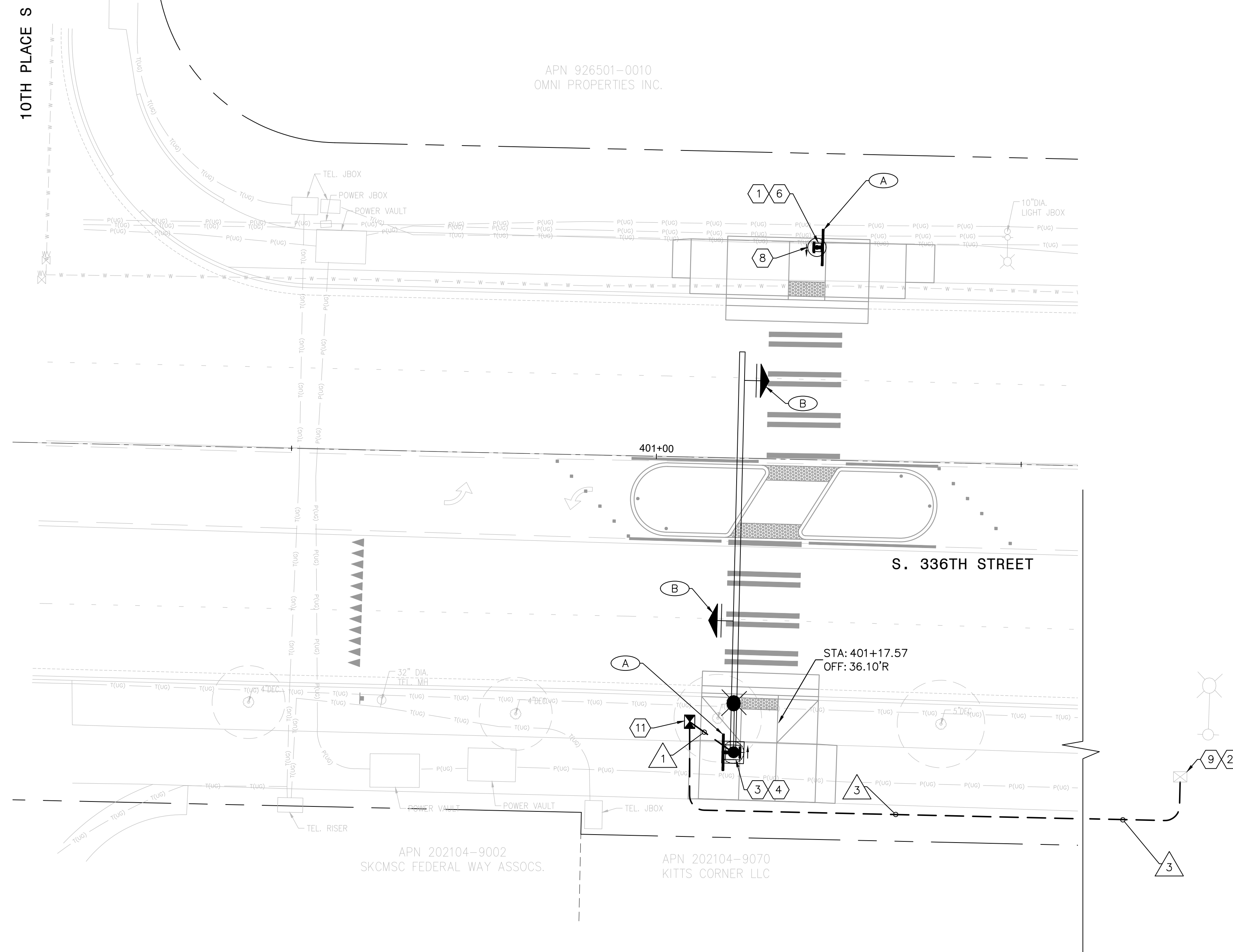
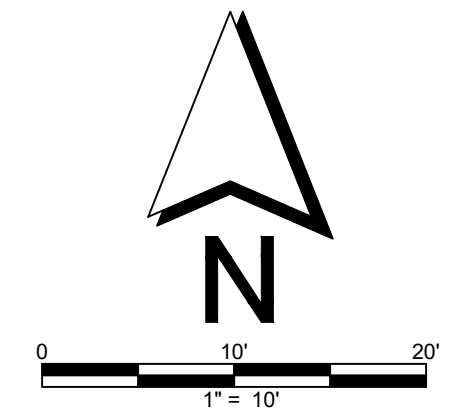
**WIRING SCHEDULE**

RUN NO.	CONDUIT SIZE/TYPE	PPB CABLE	ILLUM	GRND	PULL TAPE	COMMENTS
			#8	#8		
1	NEW 2"		2	1		
2	NEW 2"			1	1	SPARE
3	NEW 2"		2	1		
4	EX.	1	2 EX.	1		
5	NEW 1"	1		1		
6	NEW 2"	1		1	1	SPARE
7	NEW 2"		2	1		
	NEW 2"	1		1		

Note 1. Only proposed conductors shown.  
 Note 2. Ground wire shall be equal to or larger than largest conductor in conduit.  
 Note 3. New circuit wiring shall be aluminum. For lights installed on existing circuits, wiring material shall match existing wiring material (copper or aluminum) and shall match existing wiring size. Contractor shall notify engineer if there is a discrepancy between the Wiring Schedule and the field conditions.  
 Note 4. Conduits installed under travelled way shall be schedule 80. All other conduits shall be schedule 40.

**GENERAL NOTES:**

- 1. JUNCTION BOXES INSTALLED OUTSIDE OF THE SIDEWALK SHALL BE SURROUNDED BY A CONCRETE PAD PER CITY OF FEDERAL WAY STANDARD DRAWING 3-39A.
- 2. NEW POLES WITH LUMINAIRES SHALL BE NUMBERED PER FEDERAL WAY STANDARD DRAWING NUMBER 3-39B.



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NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**

**RRFB SYSTEM**

**LOCATION 4: 336TH ST AT 10TH PL S**

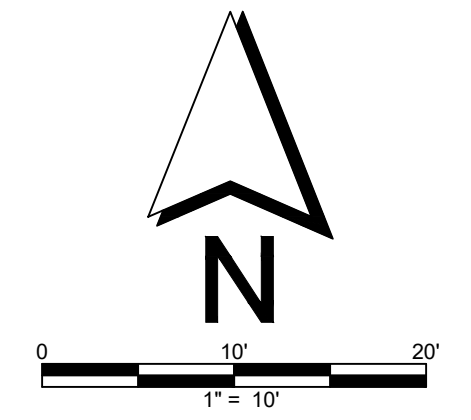
CITY PROJECT #:	36234
SHEET	IL-104
	31 OF 37

**CONSTRUCTION NOTES:**

- 1 FW RRFB SIGNAL STANDARD POLE WITH SINGLE OR DOUBLE SIDED SOLAR RRFB ASSEMBLY PER PLAN, PER WSDOT IS-22 (SHEET 2 OF 2), AND PER SHEET IL-109.
- 6 FW RRFB SIGNAL STANDARD POLE FOUNDATION IN ACCORDANCE WITH THE RRFB FOUNDATION DETAIL ON SHEET IL-110.
- 8 CONTRACTOR SHALL POTHOLE AND NOTIFY ENGINEER IF CONFLICT EXISTS.
- 14 LIGHT FIXTURE/POLE TO BE UPGRADED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH PSE ON WORK PHASING TO ENSURE LIGHT IS UPGRADED BY THE TIME THE NEW PEDESTRIAN CROSSING IS FUNCTIONING.

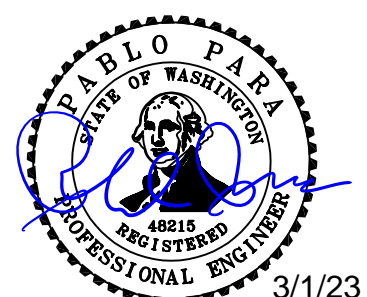
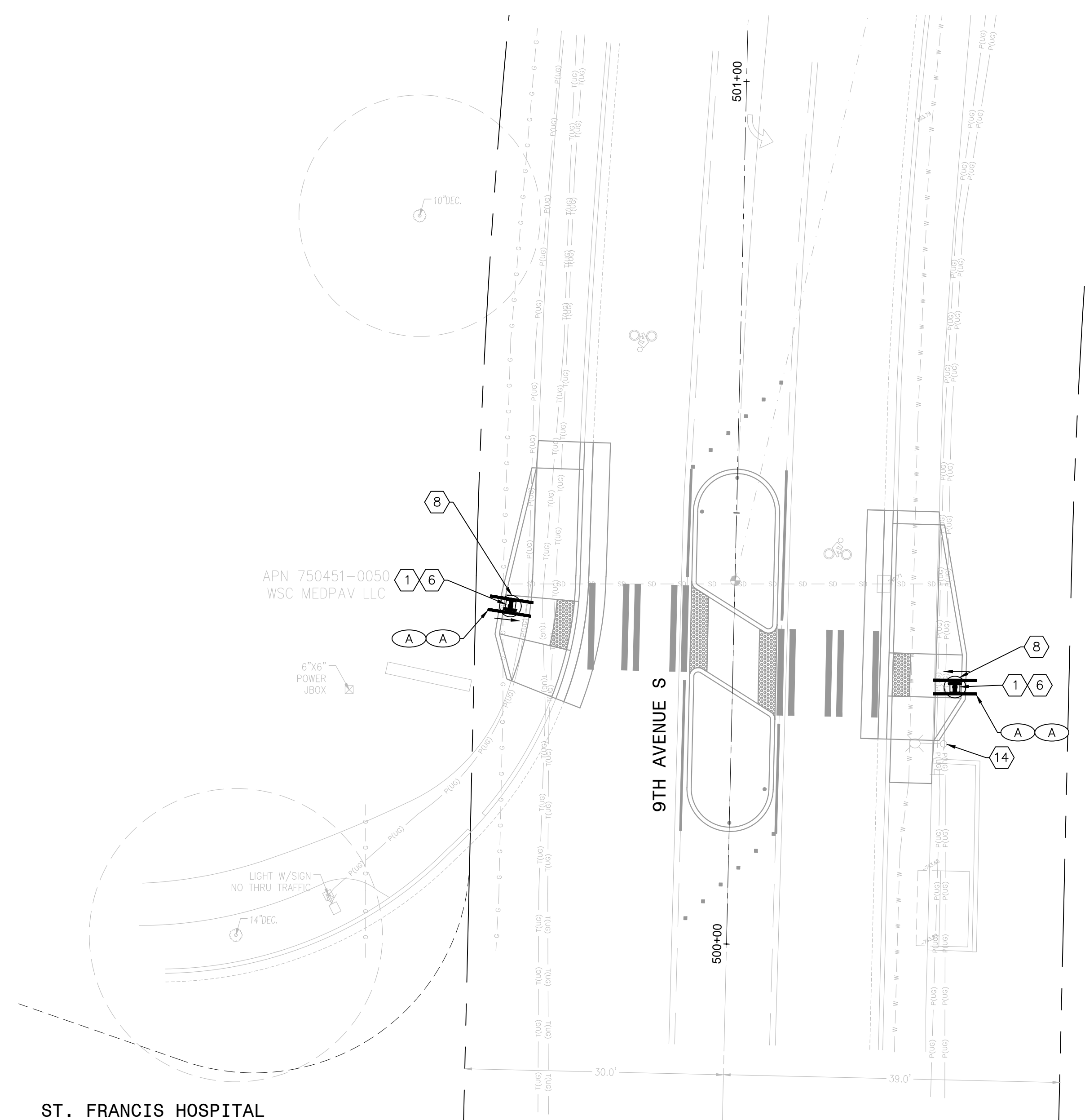
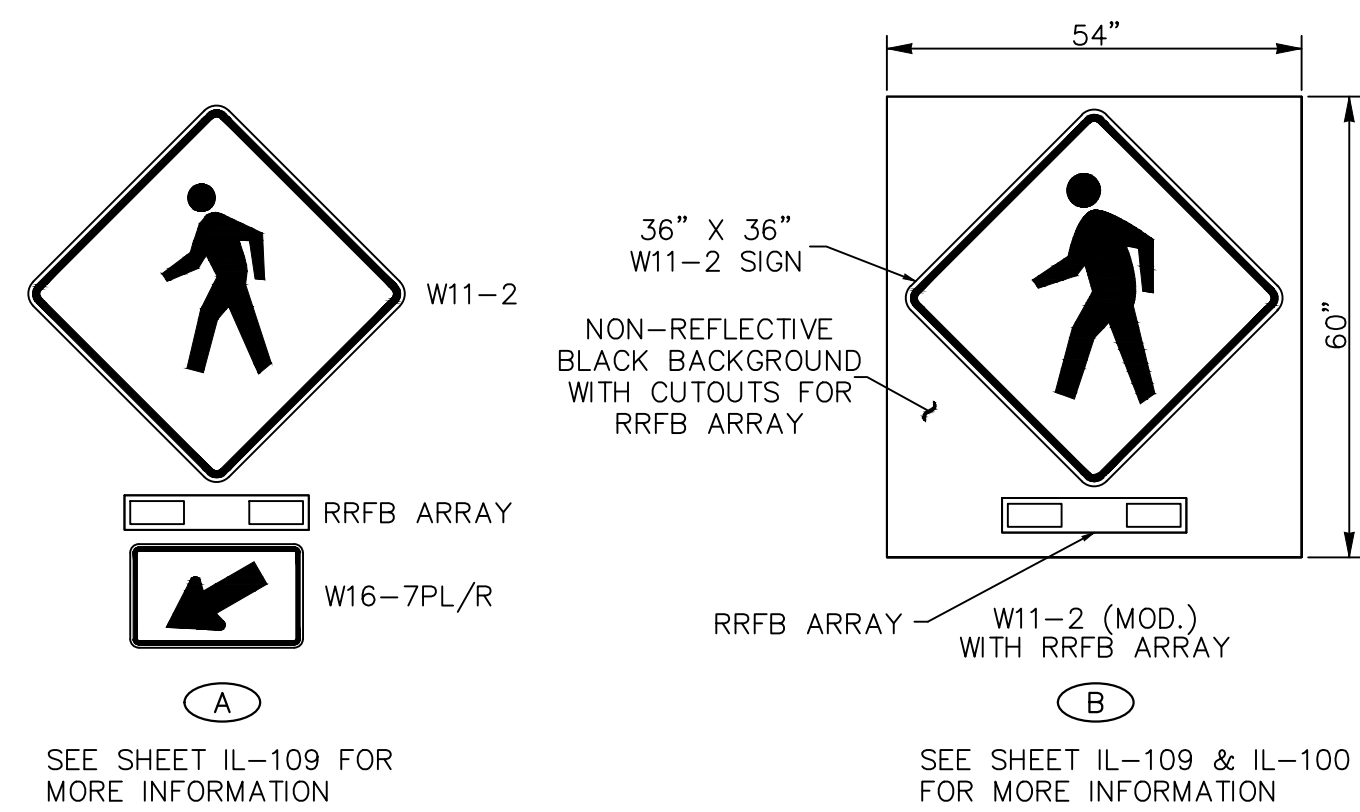
**GENERAL NOTES:**

- 1. JUNCTION BOXES INSTALLED OUTSIDE OF THE SIDEWALK SHALL BE SURROUNDED BY A CONCRETE PAD PER CITY OF FEDERAL WAY STANDARD DRAWING 3-39A.
- 2. NEW POLES WITH LUMINAIRES SHALL BE NUMBERED PER FEDERAL WAY STANDARD DRAWING NUMBER 3-39B.



**LEGEND:**

- STREET LIGHT
- MAST ARM POLE
- FW RRFB POLE
- PED PUSH BUTTON
- CONSTRUCTION NOTE
- WIRE NOTE
- UNDERGROUND CONDUIT
- TYPE 1 JB
- TYPE 2 JB
- SERVICE ENCLOSURE
- OVERHEAD RRFB/SIGN
- POST MOUNTED RRFB/SIGNS



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**CITYWIDE PEDESTRIAN SAFETY**

**RRFB SYSTEM**

**LOCATION 5: 9TH AVE S AT ST. FRANCIS HOSPITAL**

CITY PROJECT #: 36234
SHEET IL-105
32 OF 37



**CONSTRUCTION NOTES:**

- 1 FW RRFB SIGNAL STANDARD POLE WITH SINGLE OR DOUBLE SIDED SOLAR RRFB ASSEMBLY PER PLAN, PER WSDOT IS-22 (SHEET 2 OF 2), AND PER SHEET IL-109.
- 3 STANDARD TYPE III MAST ARM POLE PER WSDOT IS-13B AND PER SHEETS IL-109 AND IL-110 WITH SOLAR RRFB ASSEMBLY.
- 4 SIGNAL STANDARD FOUNDATION PER WSDOT J-26.15-01 (SHEET 3 OF 3) "FOUNDATION WITHIN THE SIDEWALK SECTION OR TRAFFIC ISLAND SECTION" AND WSDOT J-26.10-03. TOP OF FOUNDATION SHALL BE FINISHED FLUSH WITH ADJACENT SIDEWALK.
- 6 FW RRFB SIGNAL STANDARD POLE FOUNDATION IN ACCORDANCE WITH THE RRFB FOUNDATION DETAIL ON SHEET IL-110.
- 7 REPLACE EXISTING JUNCTION BOX IN PLACE WITH NEW JUNCTION BOX WITH SLIP RESISTANT LID.
- 8 CONTRACTOR SHALL POTHOLE AND NOTIFY ENGINEER IF CONFLICT EXISTS.
- 12 REPLACE JUNCTION BOX WITH NEW JUNCTION BOX WITH SLIP RESISTANT LID IN NEW LOCATION. INTERCEPT EXISTING CONDUIT RUN AND EXTEND TO NEW JUNCTION BOX. CONTRACTOR TO VERIFY CONDUIT SIZE AND TYPE AND SUPPLY ANY NECESSARY ADAPTOR FITTINGS. PROTECT EXISTING CONDUCTORS AND PULL INTO TO NEW JUNCTION BOX PER PLAN.
- 17 ORIENT POLE SUCH THAT HANDHOLE FACES THE STREET FOR EASE OF ACCESS.
- 21 SPLICE NEW AND EXISTING LIGHTING CONDUCTORS FOR NEW STREET LIGHT ADDED TO EXISTING CIRCUIT.

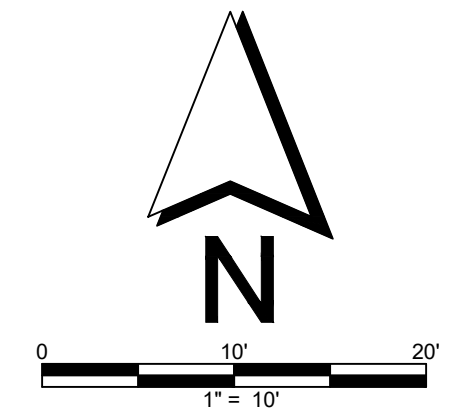
**WIRING SCHEDULE**

RUN NO.	CONDUIT SIZE/TYPE	PPB CABLE	ILLUM	GRND	PULL TAPE	COMMENTS
			#8	#8		
1	NEW 2"		2	1		
2	NEW 2"			1	1	SPARE
3	NEW 2"		2	1		
4	EX.		2 EX.	1		
5	NEW 1"	1		1		
6	NEW 2"	1		1	1	SPARE
7	NEW 2"		2	1		
	NEW 2"	1		1		

Note 1. Only proposed conductors shown.  
 Note 2. Ground wire shall be equal to or larger than largest conductor in conduit.  
 Note 3. New circuit wiring shall be aluminum. For lights installed on existing circuits, wiring material shall match existing wiring material (copper or aluminum) and shall match existing wiring size. Contractor shall notify engineer if there is a discrepancy between the Wiring Schedule and the field conditions.  
 Note 4. Conduits installed under travelled way shall be schedule 80. All other conduits shall be schedule 40.

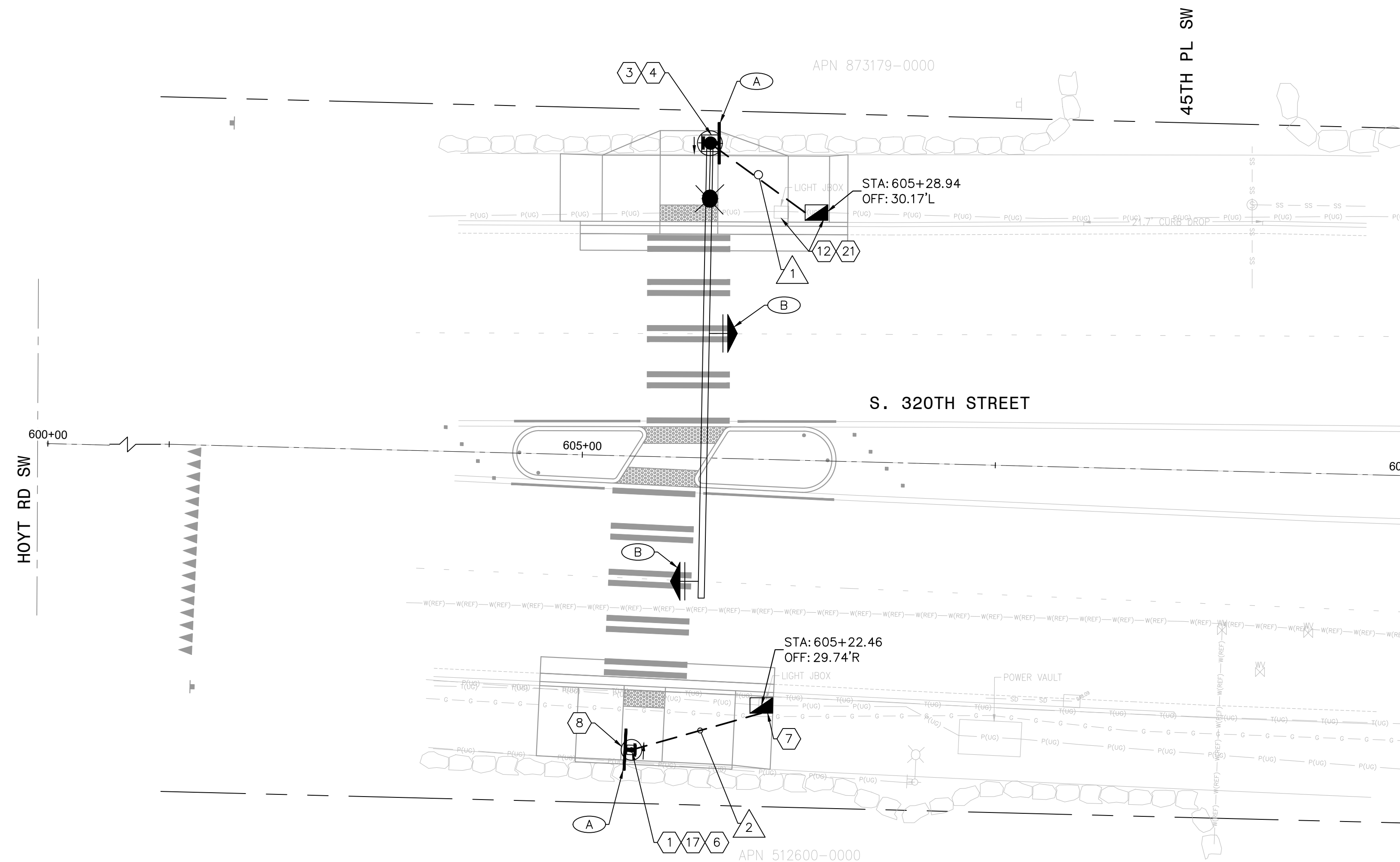
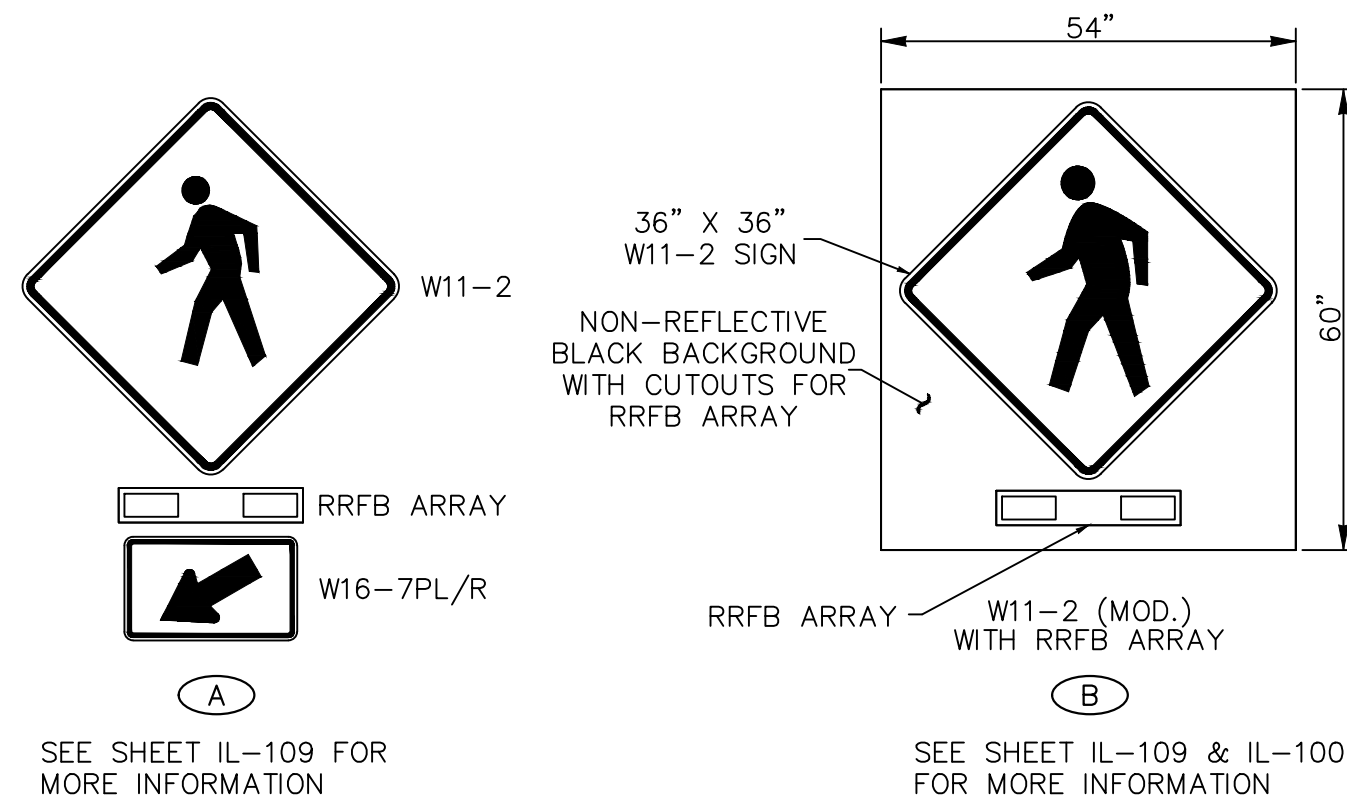
**GENERAL NOTES:**

- 1. JUNCTION BOXES INSTALLED OUTSIDE OF THE SIDEWALK SHALL BE SURROUNDED BY A CONCRETE PAD PER CITY OF FEDERAL WAY STANDARD DRAWING 3-39A.
- 2. NEW POLES WITH LUMINAIRES SHALL BE NUMBERED PER FEDERAL WAY STANDARD DRAWING NUMBER 3-39B.



**LEGEND:**

STREET LIGHT	
MAST ARM POLE	
FW RRFB POLE	
PED PUSH BUTTON	
CONSTRUCTION NOTE	
WIRE NOTE	
UNDERGROUND CONDUIT	
TYPE 1 JB	
TYPE 2 JB	
SERVICE ENCLOSURE	
OVERHEAD RRFB/SIGN	
POST MOUNTED RRFB/SIGNS	



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NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**

**RRFB SYSTEM**

**LOCATION 6: SW 320TH ST AT 45TH PL SW**

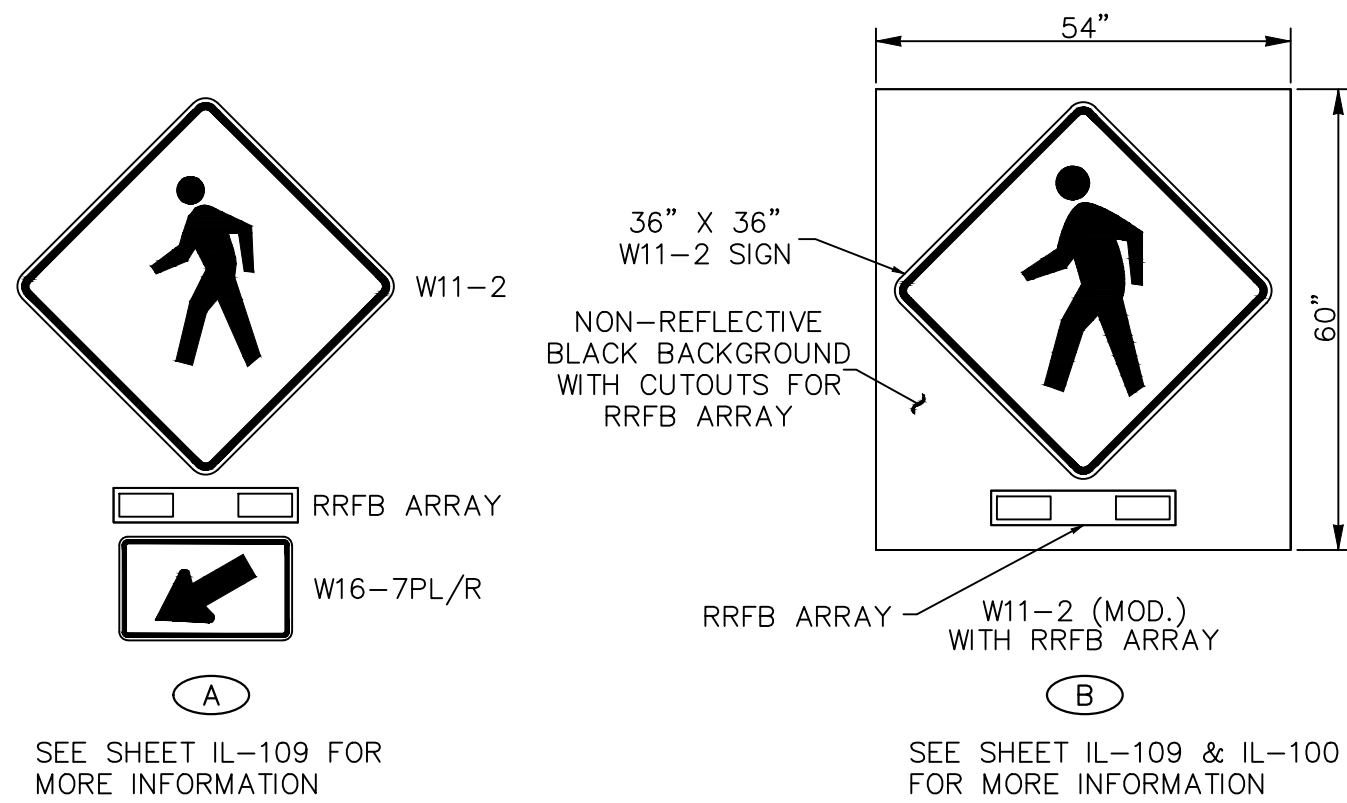
CITY PROJECT #:	36234
SHEET	IL-106
	33 OF 37

**CONSTRUCTION NOTES:**

- 1 FW RRFB SIGNAL STANDARD POLE WITH SINGLE OR DOUBLE SIDED SOLAR RRFB ASSEMBLY PER PLAN, PER WSDOT IS-22 (SHEET 2 OF 2), AND PER SHEET IL-109.
- 2 REMOVE EXISTING POLE AND FOUNDATION. CAP CONDUITS.
- 3 STANDARD TYPE III MAST ARM POLE PER WSDOT IS-13B AND PER SHEETS IL-109 AND IL-110 WITH SOLAR RRFB ASSEMBLY.
- 5 SIGNAL STANDARD FOUNDATION PER WSDOT J-26.10-03. IF FOUNDATION IS ADJACENT TO CURB, TOP OF FOUNDATION SHALL BE FINISHED FLUSH WITH ADJACENT CURB VERTICALLY AND HORIZONTALLY.
- 6 FW RRFB SIGNAL STANDARD POLE FOUNDATION IN ACCORDANCE WITH THE RRFB FOUNDATION DETAIL ON SHEET IL-110.
- 7 REPLACE EXISTING JUNCTION BOX IN PLACE WITH NEW JUNCTION BOX WITH SLIP RESISTANT LID.
- 8 CONTRACTOR SHALL POT-HOLE AND NOTIFY ENGINEER IF CONFLICT EXISTS.
- 15 LIGHT FIXTURE TO BE ADDED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH PSE ON WORK PHASING TO ENSURE LIGHT IS UPGRADED BY THE TIME THE NEW PEDESTRIAN CROSSING IS FUNCTIONING.
- 17 ORIENT POLE SUCH THAT HANDHOLE FACES THE STREET FOR EASE OF ACCESS.
- 18 INSTALL PEDESTRIAN PUSH BUTTON POST AND PUSH BUTTON PER WSDOT STANDARD PLAN J-20.10-04 WITH CURB BASE FOUNDATION PER WSDOT STANDARD PLAN J-20.11-03.
- 21 SPLICE NEW AND EXISTING LIGHTING CONDUCTORS FOR NEW STREET LIGHT ADDED TO EXISTING CIRCUIT.
- 22 CONTRACTOR SHALL INVESTIGATE SIDEWALK BASE. CONTRACTOR SHALL REPORT FIELD CONDITIONS TO ENGINEER TO VERIFY THAT CURRENT DESIGN IS ACCEPTABLE BEFORE STARTING WORK.

**LEGEND:**

- PROPOSED**
- STREET LIGHT
  - MAST ARM POLE
  - FW RRFB POLE
  - PED PUSH BUTTON
  - CONSTRUCTION NOTE
  - WIRE NOTE
  - UNDERGROUND CONDUIT
  - TYPE 1 JB
  - TYPE 2 JB
  - SERVICE ENCLOSURE
  - OVERHEAD RRFB/SIGN
  - POST MOUNTED RRFB/SIGNS



SEE SHEET IL-109 FOR MORE INFORMATION

SEE SHEET IL-109 & IL-100 FOR MORE INFORMATION



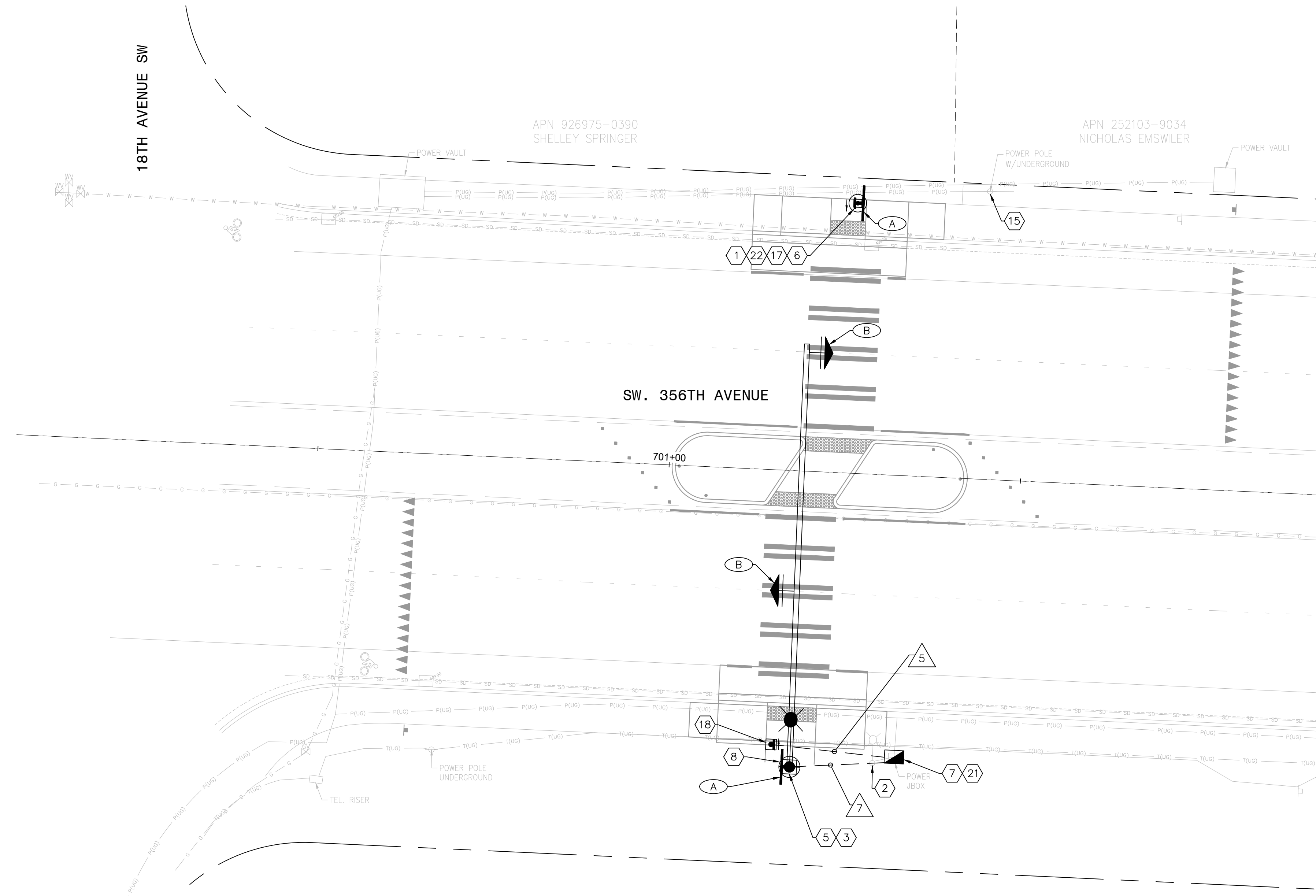
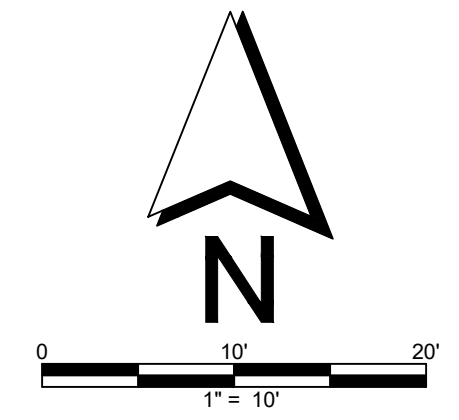
**WIRING SCHEDULE**

RUN NO.	CONDUIT SIZE/TYPE	PPB CABLE	ILLUM	GRND	PULL TAPE	COMMENTS
			#8	#8		
1	NEW 2"		2	1		
2	NEW 2"			1	1	SPARE
3	NEW 2"			1		SPARE
4	EX.		2 EX.	1		
5	NEW 1"		1	1		
6	NEW 2"			1	1	SPARE
7	NEW 2"		2	1		
	NEW 2"	1		1		

Note 1. Only proposed conductors shown.  
 Note 2. Ground wire shall be equal to or larger than largest conductor in conduit.  
 Note 3. New circuit wiring shall be aluminum. For lights installed on existing circuits, wiring material shall match existing wiring material (copper or aluminum) and shall match existing wiring size. Contractor shall notify engineer if there is a discrepancy between the Wiring Schedule and the field conditions.  
 Note 4. Conduits installed under travelled way shall be schedule 80. All other conduits shall be schedule 40.

**GENERAL NOTES:**

1. JUNCTION BOXES INSTALLED OUTSIDE OF THE SIDEWALK SHALL BE SURROUNDED BY A CONCRETE PAD PER CITY OF FEDERAL WAY STANDARD DRAWING 3-39A.
2. NEW POLES WITH LUMINAIRES SHALL BE NUMBERED PER FEDERAL WAY STANDARD DRAWING NUMBER 3-39B.



**DRAWING VERSION / REVISION LOG**

NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**

**RRFB SYSTEM  
 LOCATION 7: SW 356TH ST AT 18TH AVE SW**

CITY PROJECT #:

36234

SHEET

**IL-107**

34 OF 37

DRAFTED: ER  
 DESIGNED: MT  
 REVIEWED: PP  
 APPROVED:

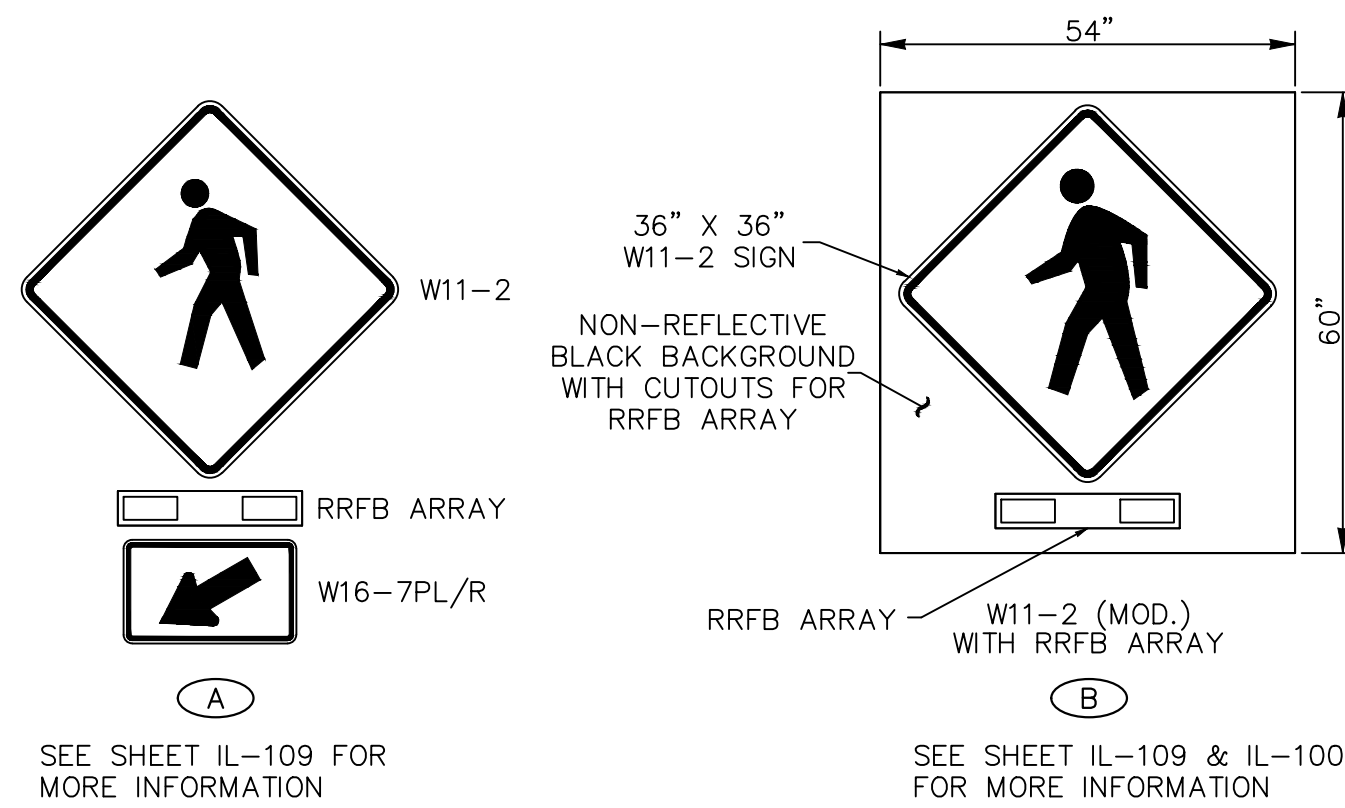


**CONSTRUCTION NOTES:**

- 1 FW RRFB SIGNAL STANDARD POLE WITH SINGLE OR DOUBLE SIDED SOLAR RRFB ASSEMBLY PER PLAN, PER WSDOT IS-22 (SHEET 2 OF 2), AND PER SHEET IL-109.
- 3 STANDARD TYPE III MAST ARM POLE PER WSDOT IS-13B AND PER SHEETS IL-109 AND IL-110 WITH SOLAR RRFB ASSEMBLY.
- 5 SIGNAL STANDARD FOUNDATION PER WSDOT J-26.10-03. IF FOUNDATION IS ADJACENT TO CURB, TOP OF FOUNDATION SHALL BE FINISHED FLUSH WITH ADJACENT CURB VERTICALLY AND HORIZONTALLY.
- 6 FW RRFB SIGNAL STANDARD POLE FOUNDATION IN ACCORDANCE WITH THE RRFB FOUNDATION DETAIL ON SHEET IL-110.
- 11 INSTALL NEW JUNCTION BOX WITH SLIP RESISTANT LID.
- 23 INSTALL NEW SERVICE ENCLOSURE PER SPECIFICATIONS. CONTRACTOR SHALL VERIFY LOCATION OF SERVICE ENCLOSURE WITH ENGINEER PRIOR TO INSTALLATION.
- 24 INSTALL CONDUIT AND WIRING TO NEW SERVICE POINT PER SPECIAL PROVISIONS. LOCATION OF SERVICE POINT SHALL BE VERIFIED WITH THE ENGINEER AND TACOMA PUBLIC UTILITIES.
- 25 INSTALL PEDESTRIAN PUSH BUTTON POST AND PUSH BUTTON PER WSDOT STANDARD PLAN J-20.10-04.
- 26 NEW CONDUIT SHALL BE INSTALLED USING DIRECTIONAL BORING.

**LEGEND:**

- PROPOSED**
- STREET LIGHT
  - MAST ARM POLE
  - FW RRFB POLE
  - PED PUSH BUTTON
  - CONSTRUCTION NOTE
  - WIRE NOTE
  - UNDERGROUND CONDUIT
  - TYPE 1 JB
  - TYPE 2 JB
  - SERVICE ENCLOSURE
  - OVERHEAD RRFB/SIGN
  - POST MOUNTED RRFB/SIGNS



SEE SHEET IL-109 FOR MORE INFORMATION

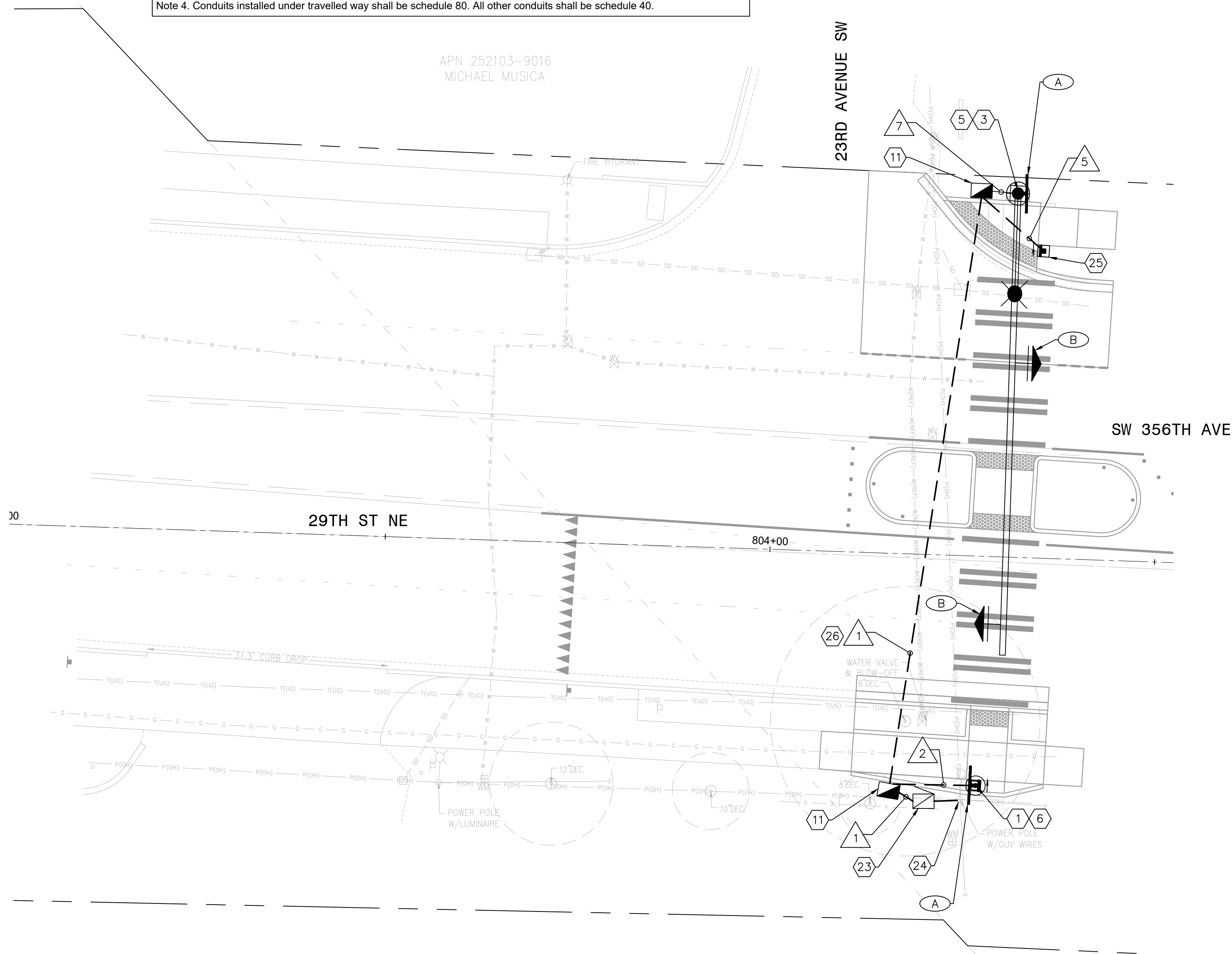
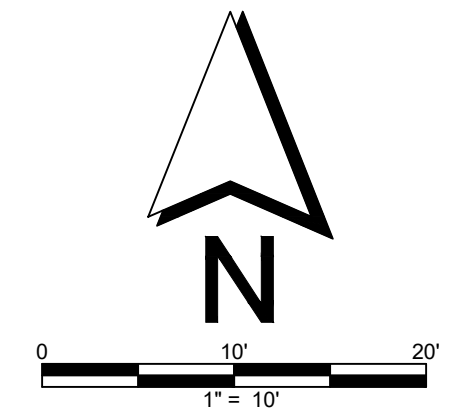
SEE SHEET IL-109 & IL-100 FOR MORE INFORMATION

RUN NO.	CONDUIT SIZE/TYPE	PPB CABLE	WIRING SCHEDULE		PULL TAPE	COMMENTS
			ILLUM #8	GRND #8		
1	NEW 2"		2	1		
2	NEW 2"			1	1	SPARE
3	NEW 2"		2	1		
4	EX.		2 EX.	1		
5	NEW 1"	1		1		
6	NEW 2"	1		1	1	SPARE
7	NEW 2"		2	1		
	NEW 2"	1		1		

Note 1. Only proposed conductors shown.  
 Note 2. Ground wire shall be equal to or larger than largest conductor in conduit.  
 Note 3. New circuit wiring shall be aluminum. For lights installed on existing circuits, wiring material shall match existing wiring material (copper or aluminum) and shall match existing wiring size. Contractor shall notify engineer if there is a discrepancy between the Wiring Schedule and the field conditions.  
 Note 4. Conduits installed under travelled way shall be schedule 80. All other conduits shall be schedule 40.

**GENERAL NOTES:**

- 1. JUNCTION BOXES INSTALLED OUTSIDE OF THE SIDEWALK SHALL BE SURROUNDED BY A CONCRETE PAD PER CITY OF FEDERAL WAY STANDARD DRAWING 3-39A.
- 2. NEW POLES WITH LUMINAIRES SHALL BE NUMBERED PER FEDERAL WAY STANDARD DRAWING NUMBER 3-39B.



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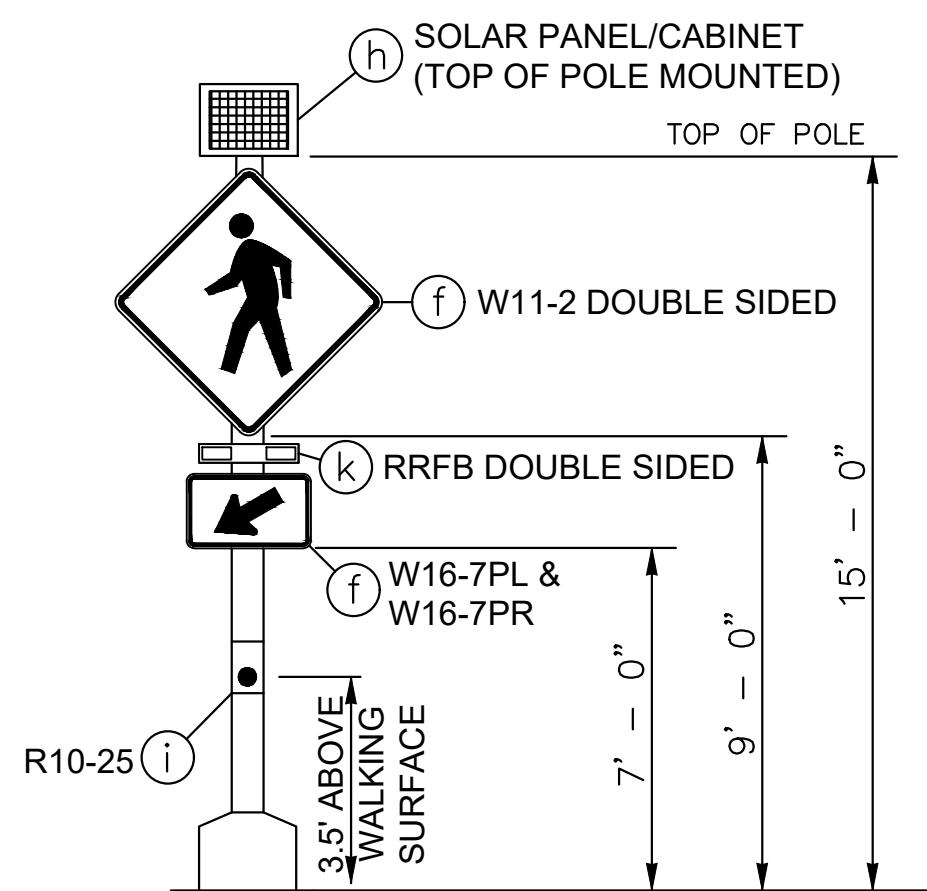
DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
**RRFB SYSTEM**  
**LOCATION 8: SW 356TH ST AT 23RD AVE SW**

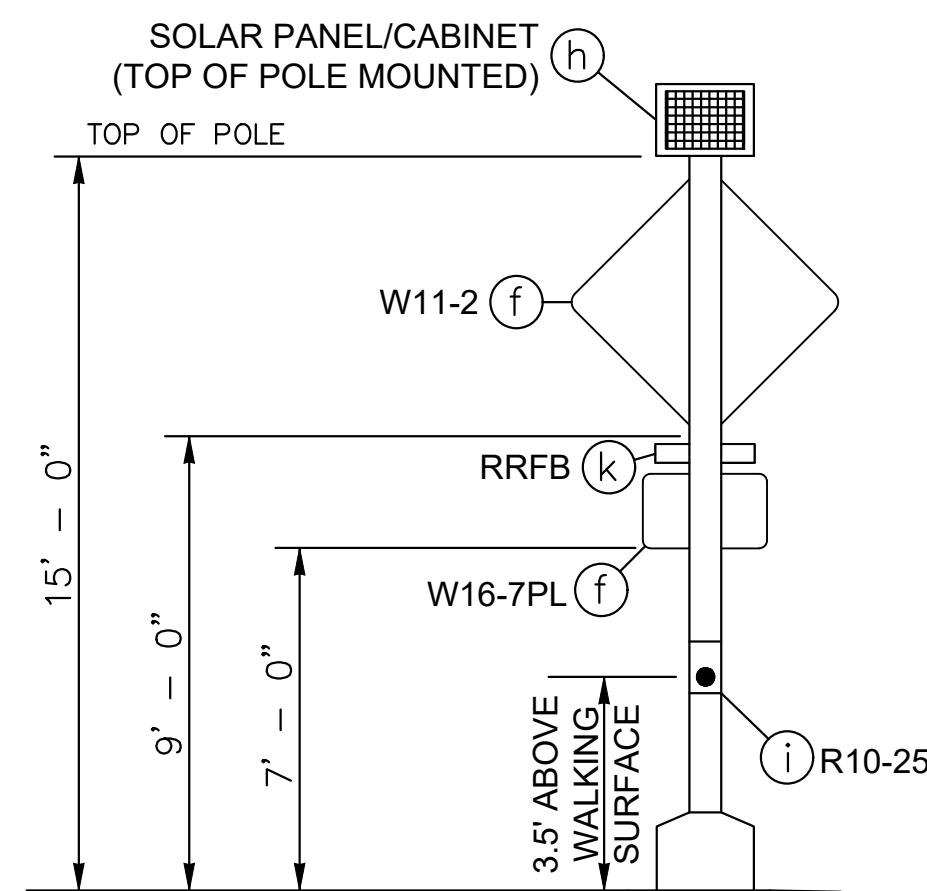
CITY PROJECT #: 36234  
 SHEET: IL-108  
 35 OF 37

RRFB SIGNAL STANDARD DETAIL CHART			
LOCATION	LOCATION INFO	FIELD LOCATION (STA, OFFSET, LT, RT)	PUSH BUTTON ATTACHMENT POINT (DEGREES)
SITE 1-SOUTH SIDE OF 320TH ST	RRFB	STA:119+23.14, 36.2' RT	90
SITE 2-NORTH SIDE OF SW DASH PT RD	RRFB	STA:200+48.40, 24.6' LT	90
SITE 2-SOUTH SIDE OF SW DASH PT RD	RRFB	STA:200+36.69, 31.4' RT	90
SITE 3-NORTH SIDE OF S 312TH ST	PPB POST	STA:301+22.77, 31.5L LT	90
SITE 3-NORTH SIDE OF S 312TH ST	EX. LIGHT POLE	EXISTING	NA
SITE 3-SOUTH SIDE OF S 312TH ST	PPB POST	STA:301+17.97, 31.6' RT	90
SITE 4-NORTH SIDE OF S 336TH ST	RRFB	STA:401+21.36, 29.1' LT	90
SITE 5-WEST SIDE OF 9TH AVE S	RRFB	STA:500+38.59, 25.9' LT	90
SITE 5-EAST SIDE OF 9TH AVE S	RRFB	STA:500+30.40, 25.8' RT	90
SITE 6-SOUTH SIDE OF S 320TH ST	RRFB	STA:605+06.87, 35.5' RT	90
SITE 7-NORTH SIDE OF SW 356TH AVE	RRFB	STA:701+25.05, 38.4' LT	90
SITE 7-SOUTH SIDE OF SW 356TH AVE	PPB POST	STA:701+16.31, 39' LT	90
SITE 8-NORTH SIDE OF SW 356TH AVE	PPB POST	STA:804+34.25, 39.8' LT	90
SITE 8-SOUTH SIDE OF SW 356TH AVE	RRFB	STA:804+27.72, 29.7' RT	90

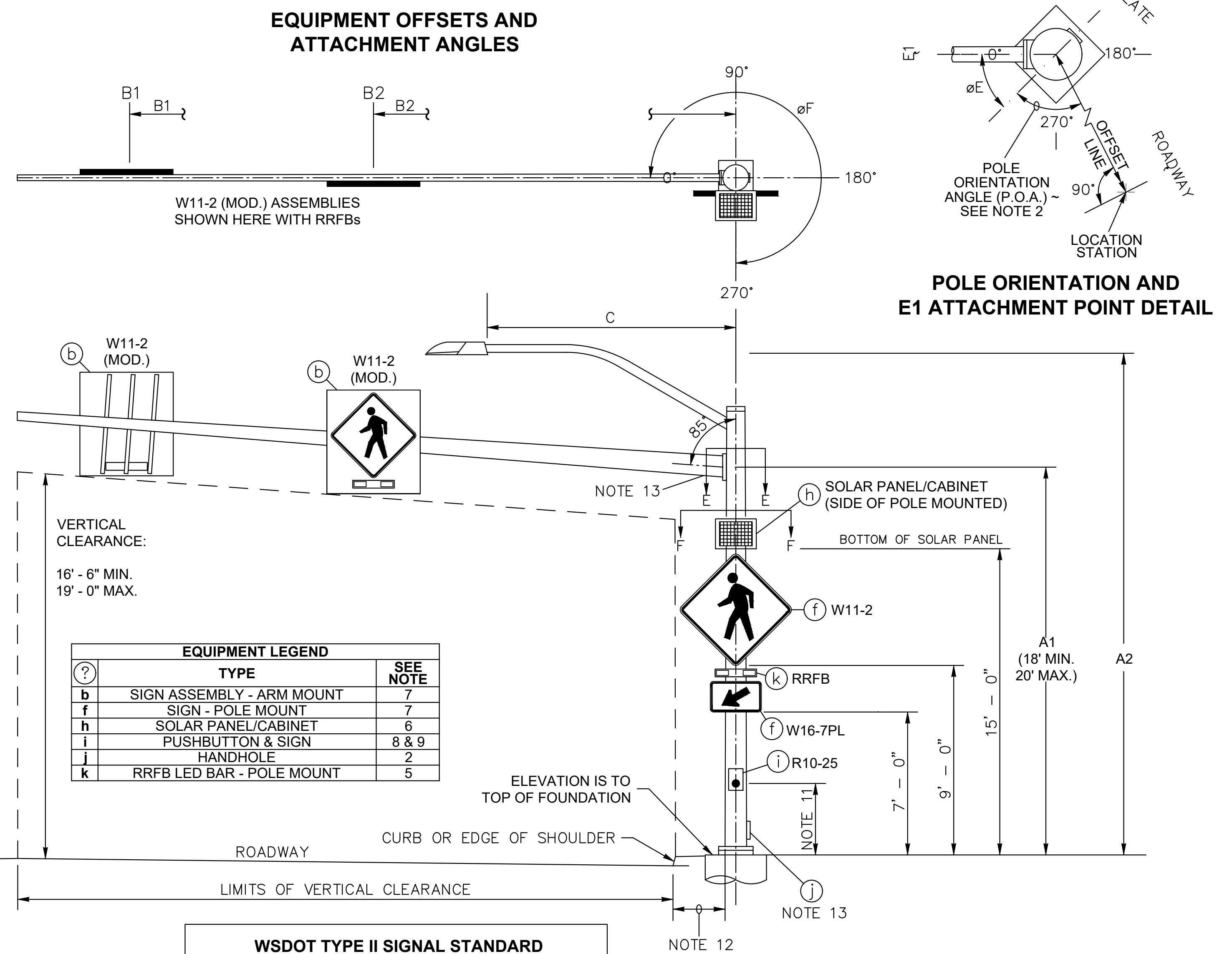
SIGN SPECIFICATIONS				
SIGN CODE	SIZE BY APPROACHING LANES	SHEETING TYPE	SIGN COLOR	
	SINGLE LANE	MULTI-LANE		
W11-2 (MOD.)	54" x 60"	IX	SEE SHEET IL-110	
W11-2	30" x 30"	36" x 36"	FLUORESCENT YELLOW GREEN	
W16-7PL	24" x 12"	24" x 12"		
W16-9P	24" x 12"	24" x 12"		



**FW RRFB SIGNAL STANDARD WITH DOUBLE SIDED SOLAR RRFB ASSEMBLY**



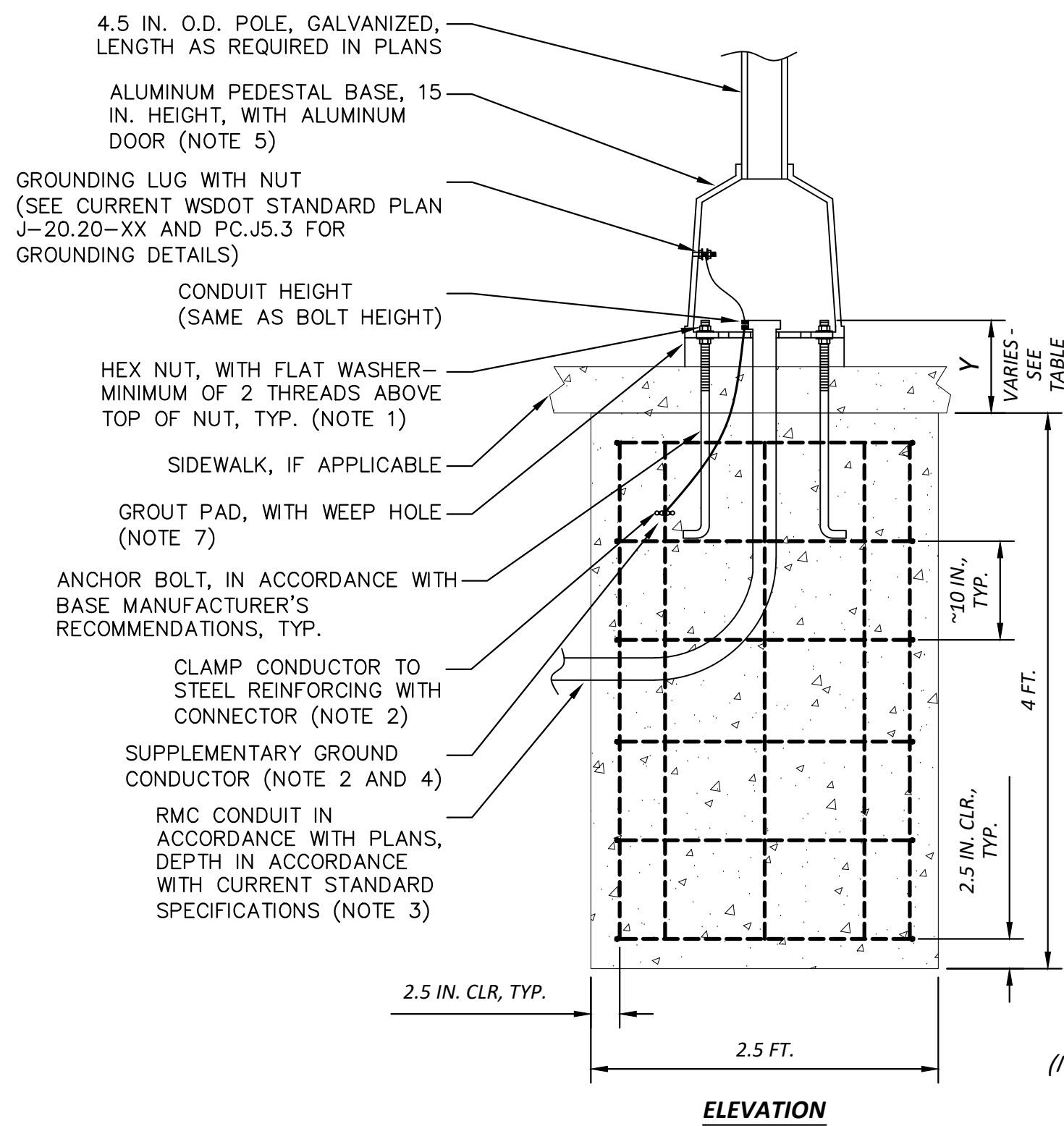
**FW RRFB SIGNAL STANDARD WITH SINGLE SIDED SOLAR RRFB ASSEMBLY (FACING AWAY)**



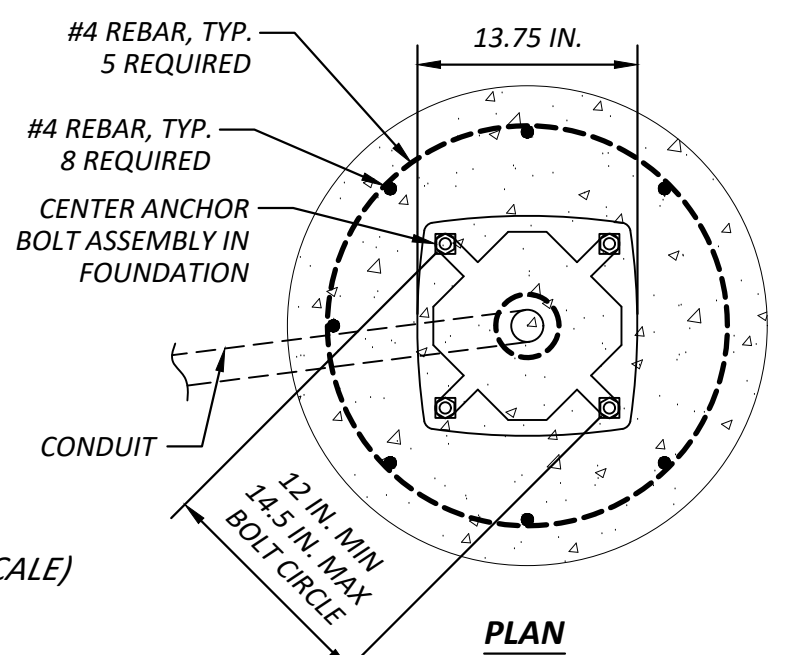
**COMBINED DETAIL FOR RRFB LOCATIONS WITH MAST ARM & POLE CONFIGURATION**

SIGNAL STANDARD DETAIL CHART																							
LOCATION #	LOCATION INFO	FIELD LOCATION					POLE TYPE	MOUNTING HEIGHT (FT)	MOUNTING HEIGHT (FT)	SIGNAL MAST ARM DATA				LUMINAIRE ARM (FT)	CALCULATED POLE XYZ (FT <sup>3</sup> )	ATTACHMENT POINT ANGLES (DEGREES)			FOUNDATION DESIGN XYZ (FT <sup>3</sup> )	SOIL BEARING PRESSURE (PSF)	FOUNDATION DEPTH (FT)		REMARKS
		STATION	OFFSET (FT)	LT.	RT.	P.O.A. (DEGREES)				OFFSETS (FT) (Z)		WINDLOAD AREAS (FT <sup>2</sup> ) (X)(Y)				E	F	PPB			3' RD.	3' SQ.	
										(POLE TO ATTACHMENT POINT)		B1	B2										
1	S 320TH ST - 1400 BLOCK	119+34.68	38.47	X		0	III	19	35	54.5	21	22.5	22.5	10	1710	0	270	90	1900	4500	9	7	
3	S 312TH ST AT 18TH AVE S	301+27.43	30.91		X	0	II	19	NA	48	14	22.5	22.5	10	1415	0	270	NA	1500	4500	8	6	
4	336TH ST AT 10TH PL S	401+11.38	40.32		X	0	III	19	35	51	18	22.5	22.5	10	1565	0	270	90	1900	2300	13	8	
6	SW 320TH ST AT 45TH AVE PL	605+14.48	38.06	X		0	III	19	35	53	23	22.5	22.5	10	1730	0	270	90	1900	2700	9	7	HANDHOLE SHALL BE ORIENTED ON SIDE OF POLE RATHER THAN BACK OF POLE. ATTACHMENT POINT ANGLE 270 DEGREES.
7	SW 356TH ST AT 18TH AVE SW	701+19.07	42.11		X	0	III	19	35	59	25	22.5	22.5	10	1890	0	270	NA	1900	2900	9	7	
8	SW 356TH ST AT 23RD AVE SW	804+30.69	47.24	X		0	III	19	35	57	22	22.5	22.5	12	1780	0	270	NA	1900	2500	12	10	





- NOTES:**
- 1) CLAMPING BOLTS SHALL BE TIGHTENED TO 50 FT-LBS MAX TORQUE. DO NOT OVER TIGHTEN.
  - 2) SUPPLEMENTAL GROUNDING CONDUCTOR SHALL BE NON-INSULATED #4 AWG STRANDED COPPER, PROVIDE 3 FT. MINIMUM SLACK. CLAMP TO VERTICAL STEEL REINFORCING BAR WITH LISTED CONNECTOR SUITABLE FOR USE EMBEDDED IN CONCRETE.
  - 3) JUNCTION BOX SERVING THE STANDARD SHALL PREFERABLY BE LOCATED 5 FT. FROM THE STANDARD (10 FT. MAXIMUM).
  - 4) EQUIPMENT GROUNDING CONDUCTOR SHALL ATTACH TO GROUNDING LUG WITH A FULL CIRCLE CRIMP-ON CONNECTOR (CRIMPED WITH A MANUFACTURER-RECOMMENDED CRIMPER).
  - 5) HAND HOLE/DOOR LOCATED AT 180 DEGREES FROM MAJOR ROADWAY, UNLESS OTHERWISE SPECIFIED.
  - 6) FOUNDATION MAY BE CONSTRUCTED USING METHOD 1 OR METHOD 2, UNLESS OTHERWISE SHOWN IN THE PLANS. FULL-DEPTH PAPERBOARD FORM IS NOT ALLOWED. SEE CURRENT WSDOT STANDARD PLAN J-28.30.
  - 7) WEEP HOLE TO BE PLACED ON DOWNHILL SIDE OF FOUNDATION.
- \* CONTRACTOR IS RESPONSIBLE FOR VERIFYING BELOW DIMENSIONS, AFTER CITY OF FEDERAL WAY APPROVAL OF SHOP DRAWINGS AND PRIOR TO ANCHOR BOLT INSTALLATION..

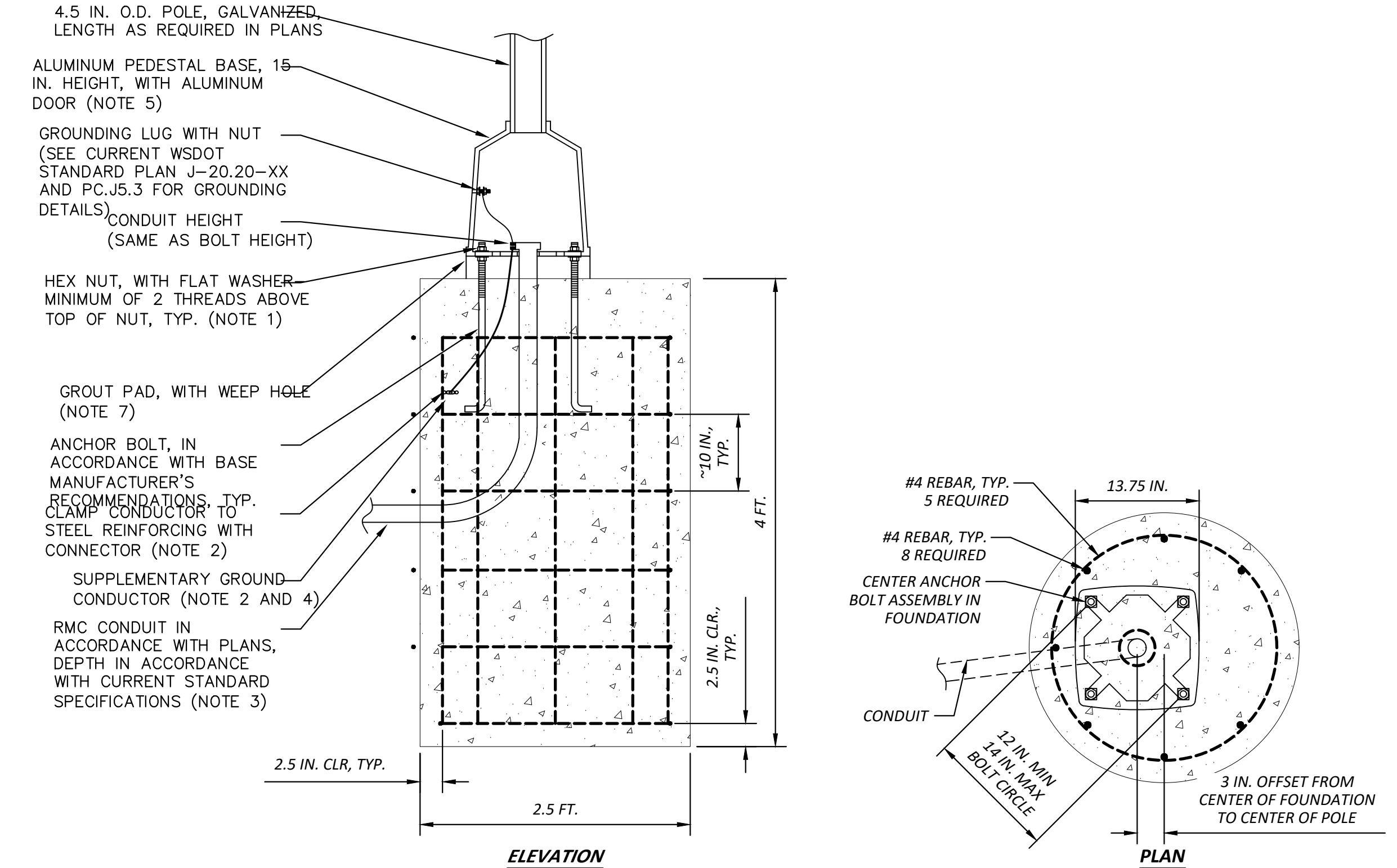


**INSTALLED IN SIDEWALK AREA\***

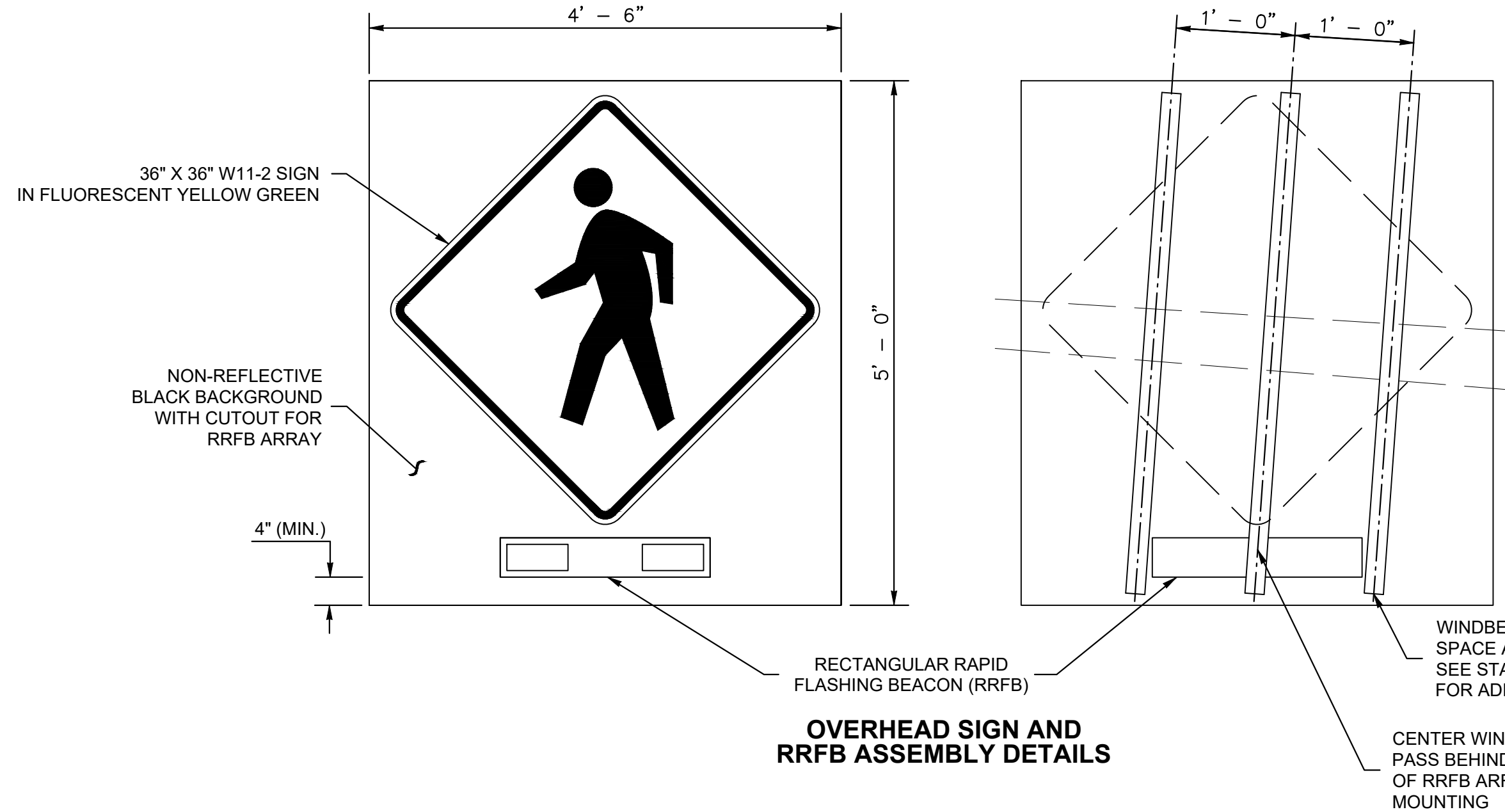
ASSUMPTIONS	ANCHOR BOLT Ø
TOP THREADS	0.5 - 1.0 IN.
NUT HEIGHT X 2	1.5 IN.
WASHER X 2	0.5 IN.
BASE	0.5 IN.
LEVELING THREADS	1.0 IN.
SIDEWALK DEPTH	6.0 IN.
Y	10 - 11.5 IN.

GROUT PAD HEIGHT SHALL BE 1.0 - 2.5 IN.

**RRFB FOUNDATION DETAIL**



**RRFB CURB FOUNDATION DETAIL**



**OVERHEAD SIGN AND RRFB ASSEMBLY DETAILS**

- RRFB SYSTEM NOTES:**
1. MAST ARMS SHALL NOT HAVE TENONS INSTALLED. WIRING ACCESS FOR RRFBs SHALL BE FIELD DRILLED AND USE RUBBER GROMMETS AND DRIP LOOPS.
  2. POLE ORIENTATION ANGLE IS MEASURED BETWEEN STATION OFFSET LINE AND THE CENTER OF THE BASEPLATE FRONT. THE POLE HANDHOLE IS ALWAYS AT THE BACK OF THE BASEPLATE (180° ON BASEPLATE).
  3. STREET NAME SIGNS SHALL NOT BE INSTALLED ON THE SIGNAL STANDARDS.
  4. B1 AND B2 SHALL BE CENTERED OVER THEIR RESPECTIVE APPROACH THROUGH LANES.
  5. RRFB LED BARS SHALL CONFORM TO THE LATEST MUTCD REQUIREMENTS. RRFB LED BARS SHALL HAVE SIDE CONFIRMATION LIGHTS. SEE SPECIAL PROVISIONS.
  6. SOLAR POWERED RRFBs SHALL BE AN ALL-IN-ONE SOLAR PANEL & TERMINAL CABINET SYSTEM THAT CAN OPERATE UP TO 3 LED BARS AND A PUSHBUTTON SIMULTANEOUSLY.
  7. SEE **STANDARD PLAN G-30.14** FOR SIGN MOUNTING DETAILS. MAST ARM MOUNTED SIGNS SHALL USE A MINIMUM OF THREE WINDBEAMS. SEE SIGN SPECIFICATION TABLE FOR SIGN SIZES AND SHEETING.
  8. PUSHBUTTON ASSEMBLIES SHALL BE AS SHOWN ON PLANS, ORIENTED RELATIVE TO THE CROSSWALK AND LEVEL CLEAR SPACE.
  9. PUSHBUTTON SHALL BE VOICE CAPABLE AND MEET THE LATEST MUTCD RRFB PUSHBUTTON REQUIREMENTS.
  10. POLE MOUNTED DISPLAYS AND SIGNS SHALL BE FIELD ORIENTED TOWARDS APPROACHING TRAFFIC, AND MUST BE 2' - 0" MIN. FROM FACE OF CURB OR EDGE OF SHOULDER.
  11. CENTER OF BUTTON SHALL BE 3' - 6" AS MEASURED FROM THE WALKING SURFACE.
  12. FACE OF POLE MUST BE SET BACK AS FOLLOWS:
    - a. 2' - 0" MIN. FROM FACE OF CURB OR EDGE OF SHOULDER.



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Know what's below.  
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DESIGNED: MT  
REVIEWED: PP  
APPROVED:



**DRAWING VERSION / REVISION LOG**

NO.	DATE	REVISION

**CITYWIDE PEDESTRIAN SAFETY**  
**RRFB SYSTEM DETAIL SHEET**

CITY PROJECT #: 36234  
SHEET IL-110  
37 OF 37