

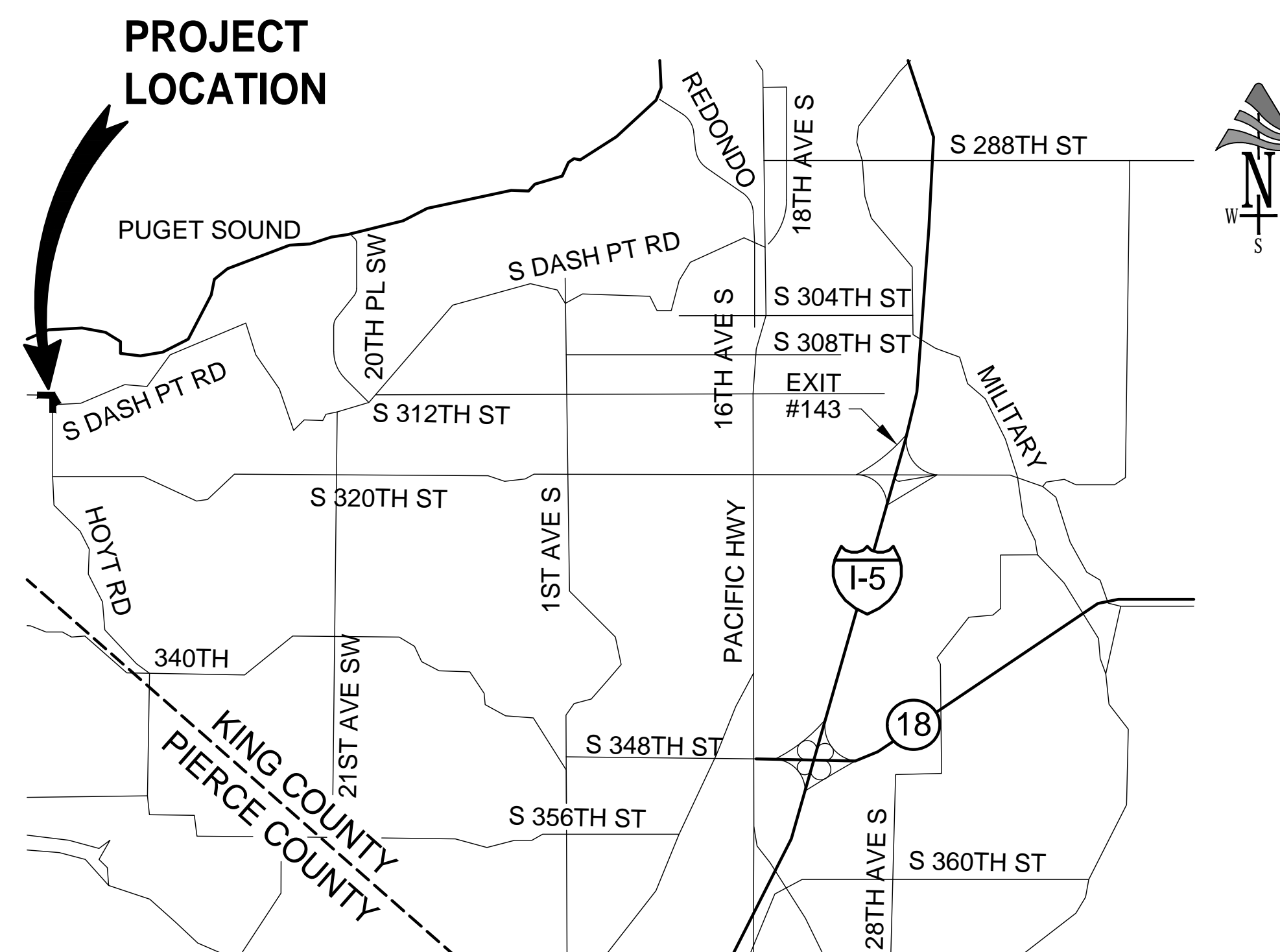
City of Federal Way Public Works Department

SW DASH POINT & 47TH AVE SW COMPACT ROUNDAABOUT

RFB NUMBER: 20-0010

FEDERAL AID NUMBER: HSIP-000S(528)

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**CALL 3 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555**

APPROVED FOR CONSTRUCTION

Desiree S. Winkler
DESIREE S. WINKLER P.E.
DEPUTY PUBLIC WORKS DIRECTOR

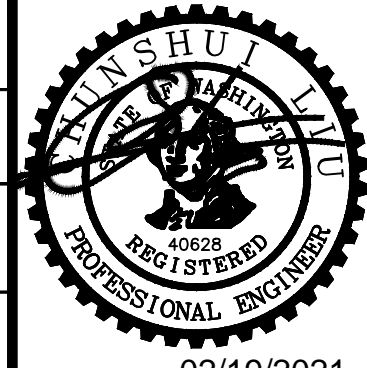
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DESIGNED: AHC
REVIEWED: CLM
APPROVED: JXL



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SW DASH POINT & 47TH AVE SW COMPACT ROUNDAABOUT
COVER PAGE, SHEET INDEX, LOCATION MAP
SW DASH POINT RD & 47TH AVE SW

CITY PROJECT #: 36217
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OF 21

EXISTING LEGEND

-----P-----P-----P-----	POWER(UNDERGROUND)		QUARTER SECTION CORNER
---OH---OH---OH---	POWER(OVERHEAD)		ROAD MONUMENT
-----W-----W-----W-----	WATER		MAG/PK NAIL
---SD---SD---SD---	STORM		POWER POLE
---SS---SS---SS---	SEWER		POWER POLE W/ LIGHT
-----T-----T-----T-----	COMMUNICATION(UNDERGROUND)		POWER POLE WITH DROPDOWN
-----G-----G-----G-----	GAS		POWER JUNCTION BOX
-----	ROAD CENTER LINE		GUY POLE
-----	RIGHT-OF-WAY		GUY ANCHOR
-----	BREAK LINES		YARD LIGHT
-----	DITCH CENTER		COMMUNICATION RISER
-----	PAVEMENT EDGE		BOLLARD
-----	GRAVEL EDGE		POST
-----	VEGETATION EDGE		SIGN
-----	SURFACE CONTOURS(MAJOR)		WATER VALVE
-----	SURFACE CONTOURS(MINOR)		FIRE HYDRANT
-----	LANE STRIPING		WATER MARKER
-----	TOP BACK CURB		SEWER MANHOLE
-----	CONC WALK EDGE		STORM CATCHBASIN
-----	FLOW LINE		STORM MANHOLE
-----	FENCE(WOOD)		STORM CULVERT
-----	FENCE(CHAIN LINK)		GAS VALVE
-----	ROCK/RETAINING WALL		GAS MARKER
-----	QUARRY SPALL EDGE		TREE(CONIFER)
			TREE(DECIDUOUS)

ABBREVIATIONS

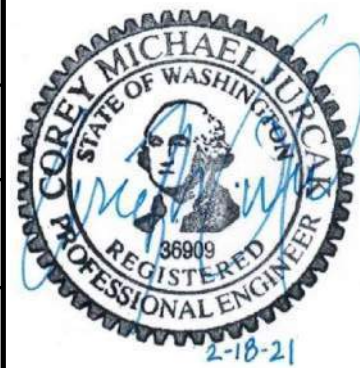
AC	ASPHALT/CONCRETE	NTS	NOT TO SCALE
ACP	ASPHALT CONCRETE PAVEMENT	NW	NORTHWEST
ADA	AMERICANS WITH DISABILITIES ACT	O.C.	ON CENTER
AP	ANGLE POINT	O.D.	OUTSIDE DIAMETER
APPROX, ~	APPROXIMATE	PC	POINT OF CURVATURE
AVE	AVENUE	PCC	POINT OF CURVE ON CURVE
BEG	BEGIN	PCC	PORTLAND CEMENT CONCRETE
BLDG	BUILDING	PE	POLYETHYLENE
BOC	BACK OF CURB	PG	PAGE
BOW	BOTTOM OF WALL, BACK OF WALK	PI	POINT OF INTERSECTION
CB	CATCH BASIN	PK	PK NAIL
CDF	CONTROLLED DENSITY FILL	POC	POINT OF CURVE
CFW	CITY OF FEDERAL WAY	PRC	POINT OF REVERSE CURVATURE
CHLK	CHAIN LINK	PT	POINT OF TANGENCY, POINT
CL, CL, C/L	CENTERLINE	PVC	POLYVINYL CHLORIDE
CL	CLASS	PVC	POINT OF VERTICAL CURVE
CO	CLEANOUT	PVI	POINT OF VERTICAL INTERSECTION
CONC	CONCRETE	PVT	POINT OF VERTICAL TANGENT
CONT	CONTINUOUS	R, RAD	RADIUS
CPEP	CORRUGATED POLYETHYLENE PIPE	RD	ROAD
CPP	CORRUGATED PLASTIC PIPE	REQ'D	REQUIRED
CSBC	CRUSHED SURFACING BASE COURSE	R, RP	RADIUS POINT
CSTC	CRUSHED SURFACING TOP COURSE	R, RT	RIGHT
DET	DETAIL	R/W, ROW	RIGHT OF WAY
DIA, DIAM, Ø	DIAMETER	S	SLOPE/SOUTH
DI, DIP	DUCTILE IRON PIPE	SCH	SCHEDULE
DW, DWY	DRIVEWAY	SD	STORM DRAIN
E	EASTING/EAST	SHT	SHEET
EA	EACH	SPEC	SPECIFICATIONS
EG	EXISTING GROUND, EXISTING GRADE	SS, SAN	SANITARY SEWER
EL, ELEV	ELEVATION	SSMH	SANITARY SEWER MANHOLE
EOP	EDGE OF PAVEMENT	ST	STREET
EQ	EQUIVALENT	STA	STATION
EX, EXIST	EXISTING	STCR	STRUCTURE
FG	FINISHED GRADE	STD	STANDARD
FL	FLANGE/FLOWLINE	SW	SOUTHWEST
FM	FORCE MAIN	T, TAN	TANGENT LENGTH
FND	FOUND	TE	TOP ELEVATION
FOC	FACE OF CURB	TEL	TELEPHONE
GV	GATE VALVE	TEMP	TEMPORARY
H, HORIZ	HORIZONTAL	TOC, TC	TOP OF CURB
HMA	HOT MIX ASPHALT	TOG	TOP OF GRATE
HT	HEIGHT	TOW	TOP OF WALL
ID	INSIDE DIAMETER	TYP	TYPICAL
IE	INVERT ELEVATION	UG	UNDERGROUND
JUT	JOINT UTILITY TRENCH	UNK	UNKNOWN
L, LEN	LENGTH	VC	VERTICAL CURVE
LF	LINEAR FEET	V, VERT	VERTICAL
LP	LOW POINT	W	WATER, WEST, WIDTH
L, LT	LEFT	W/	WITH
MAX	MAXIMUM	WM	WATER MAIN
MDD	MAXIMUM DRY DENSITY	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
MIC	MONUMENT IN CASE	Δ	DELTA
MIN	MINIMUM		
MH	MANHOLE		
MISC	MISCELLANEOUS		
MJ	MECHANICAL JOINT		
MON	MONUMENT		
N	NORTHING/NORTH		
NO, #	NUMBER		

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DESIGNED:	MBW
REVIEWED:	BJS
APPROVED:	CMJ



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SW DASH POINT ROAD & 47TH AVE SW COMPACT ROUNDABOUT

LEGEND AND ABBREVIATIONS

CITY PROJECT #:	36217
SHT.	2
OF	21

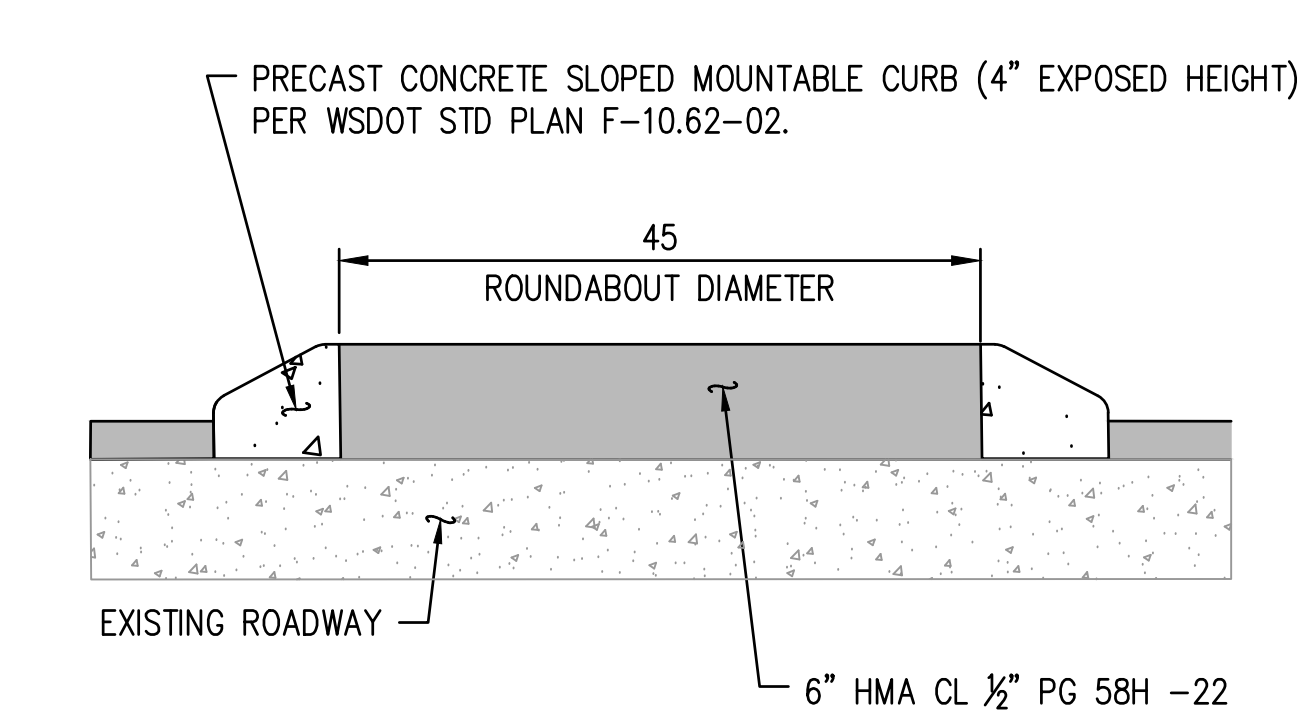
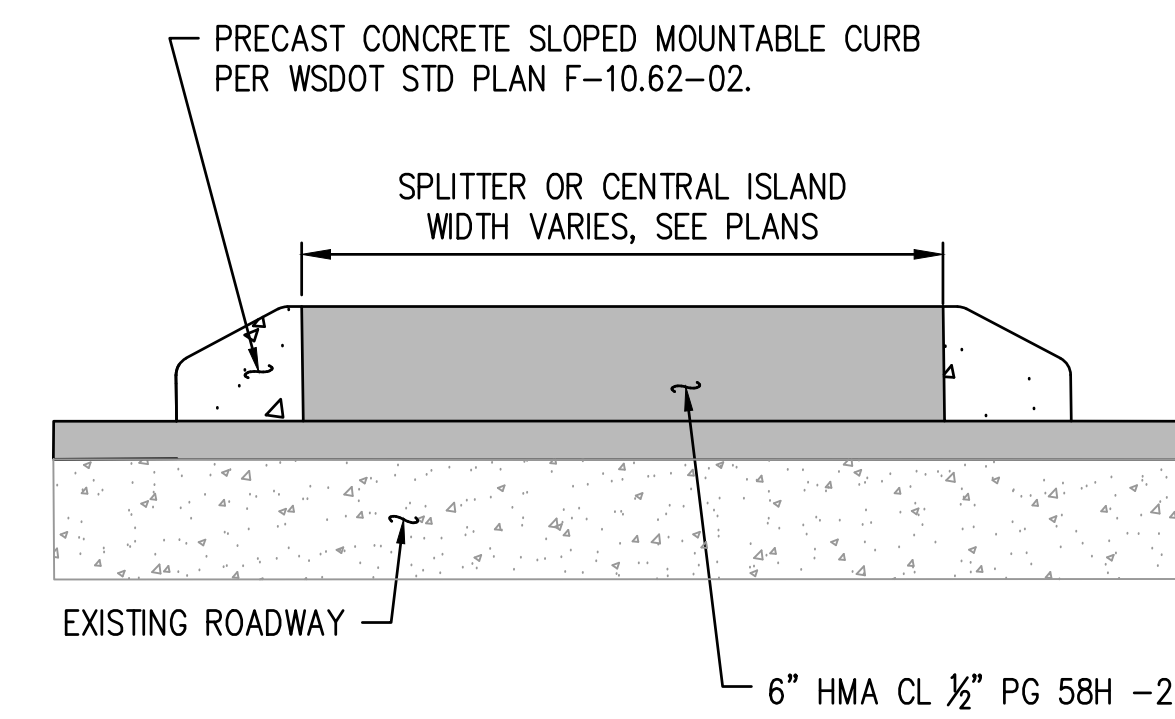
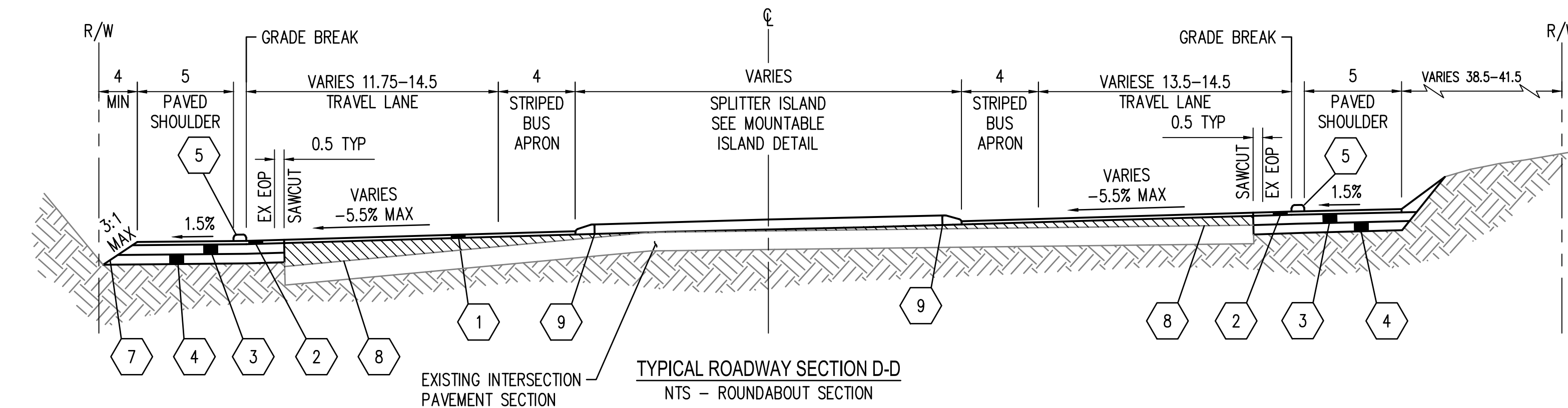
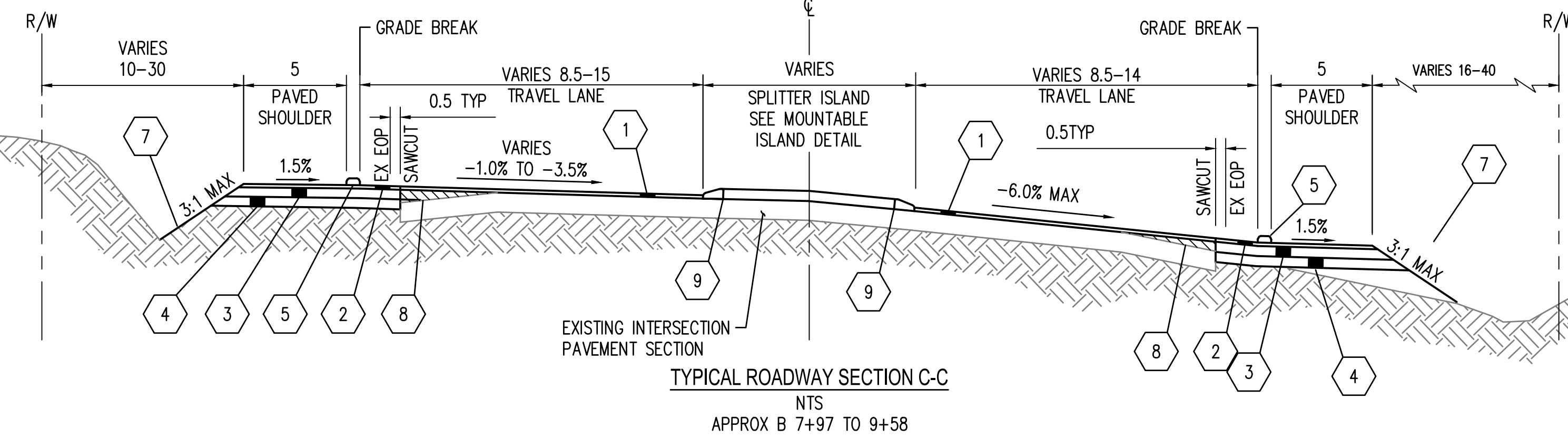
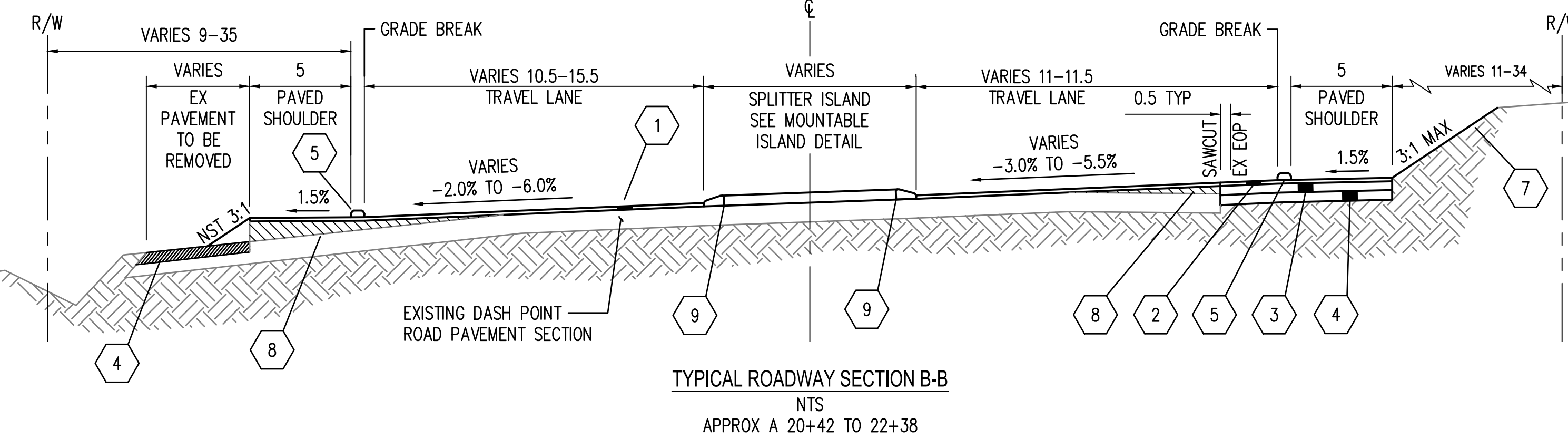
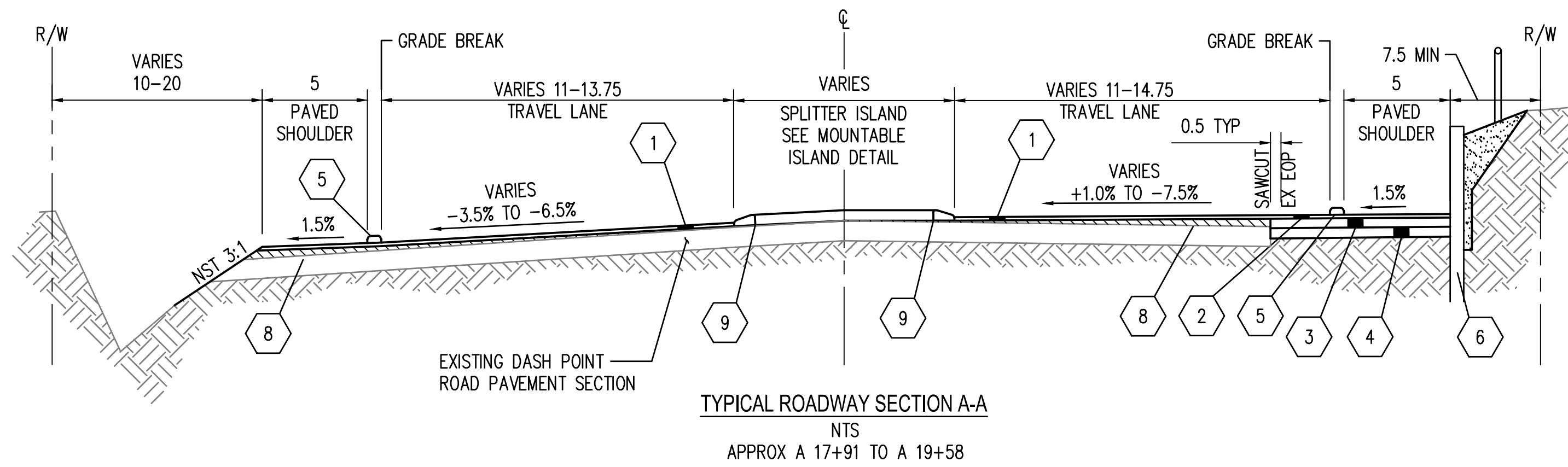
REGION NO.	STATE	FEDERAL AND PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	WA	HSIP-000S(528)	3	21

ROADWAY SECTION KEY NOTES:

- 1 GRIND AND 2" OVERLAY - HMA CLASS 1/2" PG. 58H -22
- 2 2" OVERLAY - HMA 1/2" PC 58H -22
- 3 6" DEPTH - HMA 1/2" PC 58H -22
- 4 6" DEPTH - CSBC
- 5 EXTRUDED CURB TYPE 2 PER WSDOT STD PLAN F-10.42-02
- 6 SOLDIER PILE WALL - SEE WALL DETAIL SHEET FOR FURTHER WALL AND FENCE DETAIL
- 7 SEEDED LAWN AND 8" TOPSOIL TYPE A
- 8 HMA FOR PRELEVELING - HMA CLASS 1/2" PG. 58H -22
- 9 PRECAST SLOPED MOUNTABLE CURB PER WSDOT STD PLAN F-10.62-02

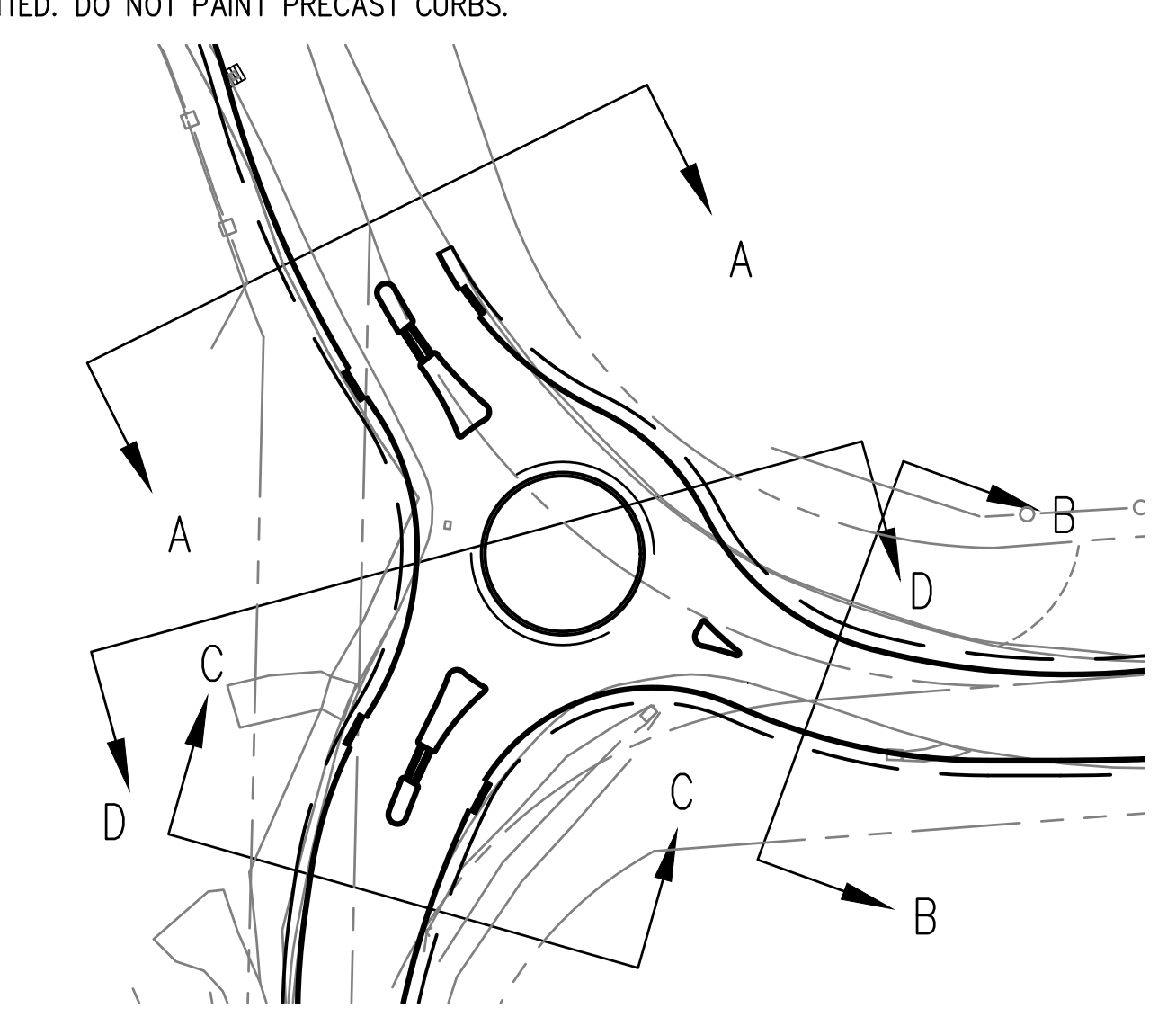
GENERAL NOTES:

1. SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH SECTION 2-06 OF THE STANDARD SPECIFICATIONS.
2. ADDITIONAL FILL MATERIAL REQUIRED FOR CONSTRUCTION SHALL BE APPROVED GRAVEL BORROW.
3. EMBANKMENTS SHALL BE CONSTRUCTED PER SECTION 2-03 OF THE STANDARD SPECIFICATIONS.
4. IF UNSUITABLE FOUNDATION MATERIAL IS ENCOUNTERED, THE CONTRACTOR SHALL CAREFULLY OVER EXCAVATE TO A MAXIMUM DEPTH OF 1' AND REPLACE PAVEMENT AS REQUIRED TO PROVIDE 2' MINIMUM CLEARANCE FROM TRAVELED WAY, AS DIRECTED BY THE ENGINEER.
5. CONTRACTOR SHALL SAWCUT AND REMOVE PAVEMENT AS REQUIRED TO PROVIDE 2' MINIMUM CLEARANCE FROM TRAVELED WAY, AS DIRECTED BY THE ENGINEER.
6. SEE CHANNELIZATION AND SIGNING PLAN SHEETS FOR PAVEMENT MARKINGS.
7. SEE PLAN AND PROFILES (SHEETS 7 AND 8) FOR PROFILE ELEVATIONS ON 25 FOOT STATIONS TO ESTABLISH GRADES BETWEEN CENTERLINE AND CURB LINE.
8. NST = NO STEEPER THAN



DETAIL GENERAL NOTES:

1. ROUNDABOUT CENTRAL ISLAND SHALL RECEIVE TERRA COTTA COLOR METHYL METHACRYLATE (MMA) PAVEMENT MARKING
2. ALL PRECAST CURBS SHALL REMAIN UNPAINTED. DO NOT PAINT PRECAST CURBS.



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DESIGNED: MBW
REVIEWED: CMJ
APPROVED: CMJ & BJS

BRADLEY J. SHEA
REGISTERED PROFESSIONAL ENGINEER
2-10-21

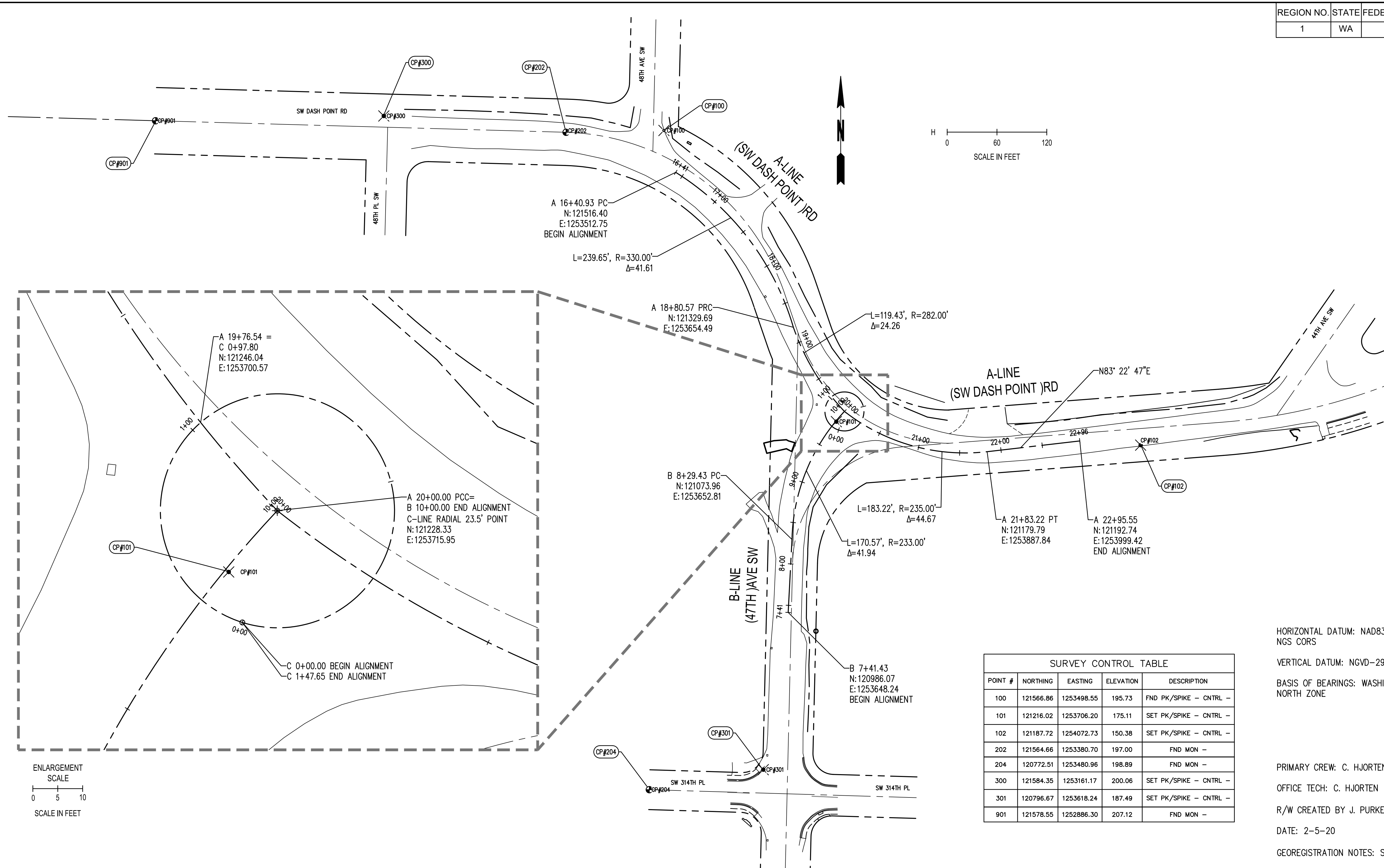
LORELY MICHAEL LUKY
REGISTERED PROFESSIONAL ENGINEER
2-10-21

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SW DASH POINT ROAD & 47TH AVE SW COMPACT ROUNDABOUT

TYPICAL ROADWAY SECTIONS

CITY PROJECT #:	36217
SHT.	3
OF	21



SURVEY CONTROL TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	121566.86	1253498.55	195.73	FND PK/SPIKE - CNTRL -
101	121216.02	1253706.20	175.11	SET PK/SPIKE - CNTRL -
102	121187.72	1254072.73	150.38	SET PK/SPIKE - CNTRL -
202	121564.66	1253380.70	197.00	FND MON -
204	120772.51	1253480.96	198.89	FND MON -
300	121584.35	1253161.17	200.06	SET PK/SPIKE - CNTRL -
301	120796.67	1253618.24	187.49	SET PK/SPIKE - CNTRL -
901	121578.55	1252886.30	207.12	FND MON -

HORIZONTAL DATUM: NAD83-2011 EPOCH 2010 DERIVED FROM WSRN AND NGS CORS

VERTICAL DATUM: NGVD-29

BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE

PRIMARY CREW: C. HJORTEN & J. JONES

OFFICE TECH: C. HJORTEN

R/W CREATED BY J. PURKEY

DATE: 2-5-20

GEOREGISTRATION NOTES: SW & NW 1/4 SEC. 11, T. 21 N, R. 03 E, W.M.

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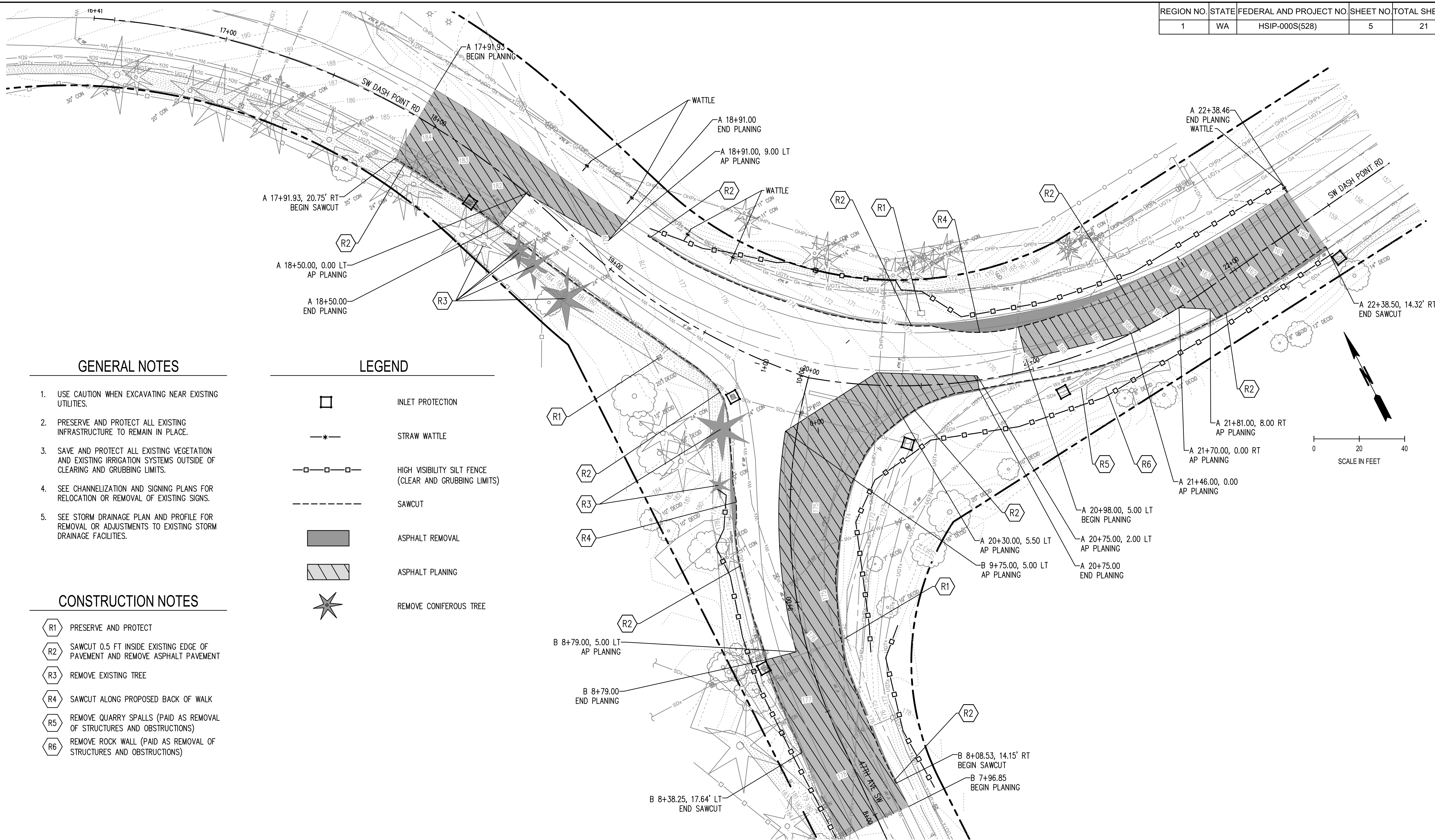


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SW DASH POINT ROAD & 47TH AVE SW COMPACT ROUNDABOUT

SURVEY CONTROL



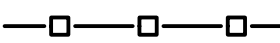
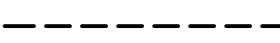



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





GENERAL NOTES

- USE CAUTION WHEN EXCAVATING NEAR EXISTING UTILITIES.
- PRESERVE AND PROTECT ALL EXISTING INFRASTRUCTURE TO REMAIN IN PLACE.
- SAVE AND PROTECT ALL EXISTING VEGETATION AND EXISTING IRRIGATION SYSTEMS OUTSIDE OF CLEARING AND GRUBBING LIMITS.
- SEE CHANNELIZATION AND SIGNING PLANS FOR RELOCATION OR REMOVAL OF EXISTING SIGNS.
- SEE STORM DRAINAGE PLAN AND PROFILE FOR REMOVAL OR ADJUSTMENTS TO EXISTING STORM DRAINAGE FACILITIES.

LEGEND

-  INLET PROTECTION
-  STRAW WATTLE
-  HIGH VISIBILITY SILT FENCE (CLEAR AND GRUBBING LIMITS)
-  SAWCUT
-  ASPHALT REMOVAL
-  ASPHALT PLANING
-  REMOVE CONIFEROUS TREE

CONSTRUCTION NOTES

-  R1 PRESERVE AND PROTECT
-  R2 SAWCUT 0.5 FT INSIDE EXISTING EDGE OF PAVEMENT AND REMOVE ASPHALT PAVEMENT
-  R3 REMOVE EXISTING TREE
-  R4 SAWCUT ALONG PROPOSED BACK OF WALK
-  R5 REMOVE QUARRY SPALLS (PAID AS REMOVAL OF STRUCTURES AND OBSTRUCTIONS)
-  R6 REMOVE ROCK WALL (PAID AS REMOVAL OF STRUCTURES AND OBSTRUCTIONS)

DRAFTED: MBW

DESIGNED: MBW

REVIEWED: BJS

APPROVED: CMJ



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SW DASH POINT ROAD & 47TH AVE SW COMPACT ROUNDABOUT

SITE PREPARATION & TESC PLAN



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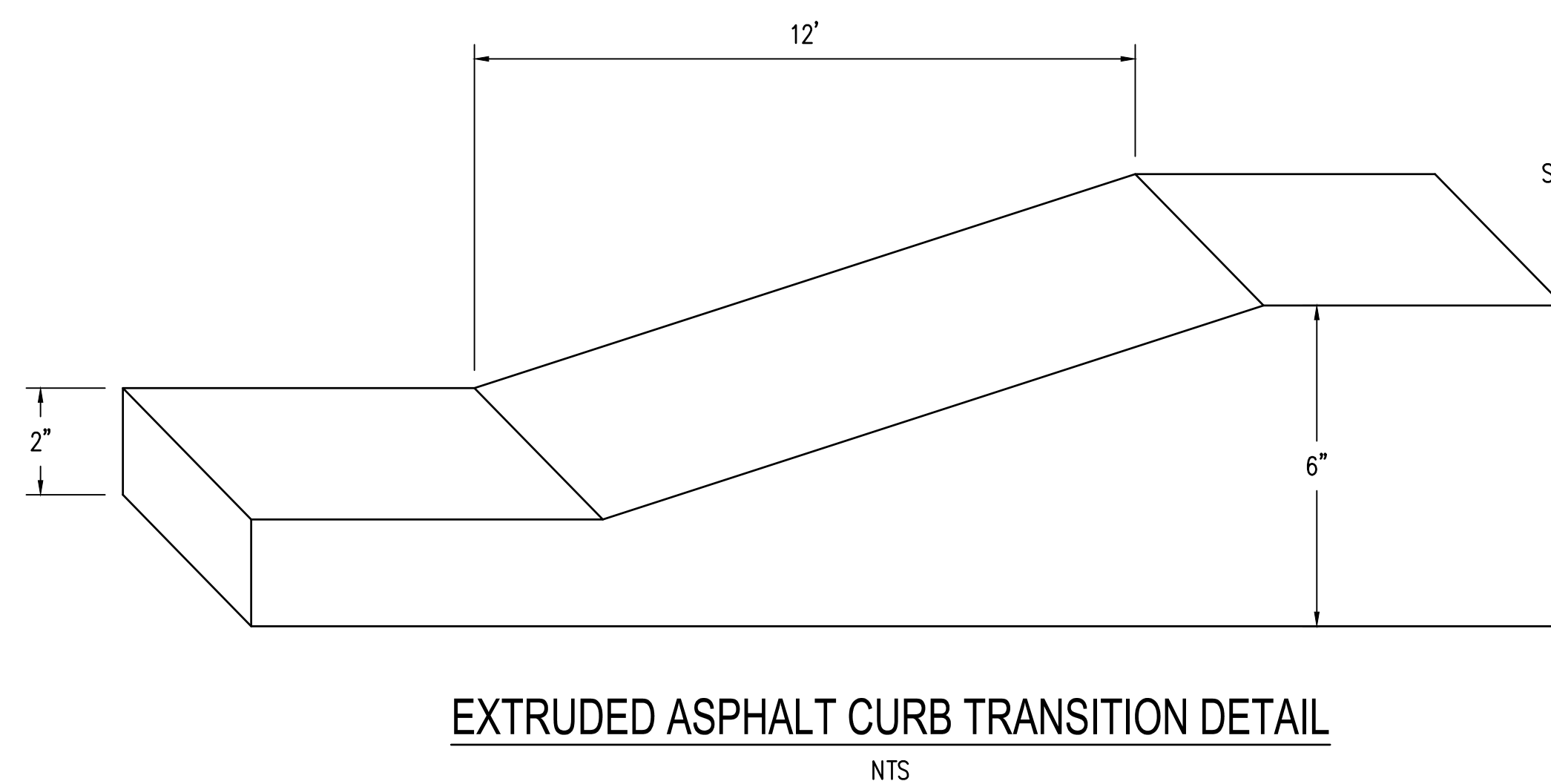
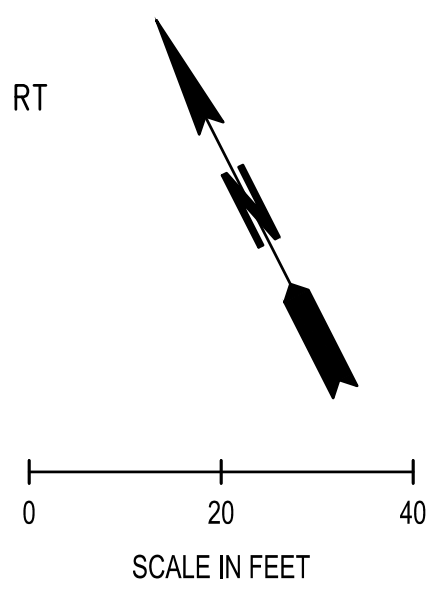
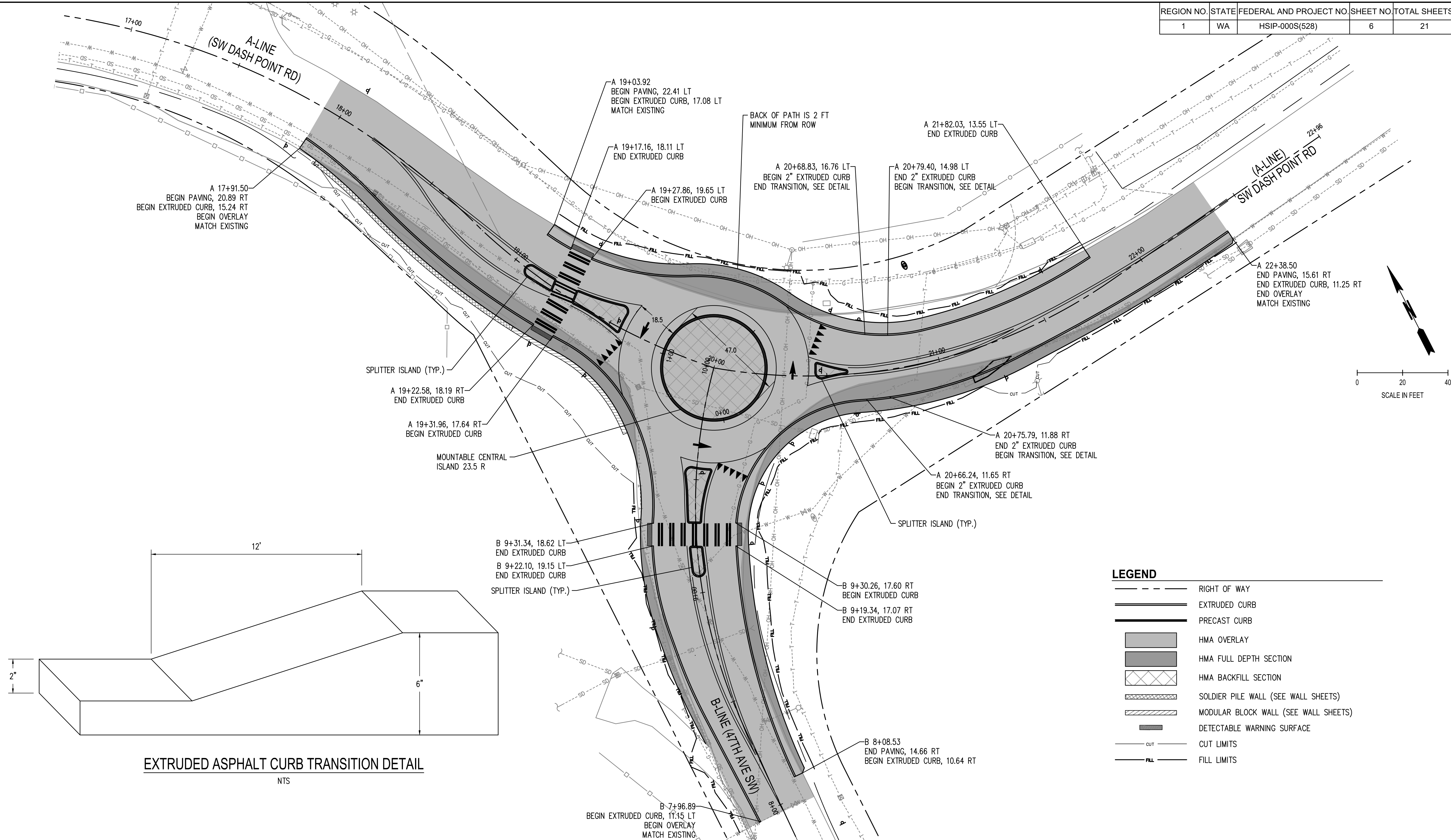


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1	WA	HSIP-000S(528)	6	21



LEGEND

- RIGHT OF WAY
- == EXTRUDED CURB
- == PRECAST CURB
- HMA OVERLAY
- HMA FULL DEPTH SECTION
- ▨ HMA BACKFILL SECTION
- ▨ SOLDIER PILE WALL (SEE WALL SHEETS)
- ▨ MODULAR BLOCK WALL (SEE WALL SHEETS)
- ▨ DETECTABLE WARNING SURFACE
- - - CUT LIMITS
- — — FILL LIMITS

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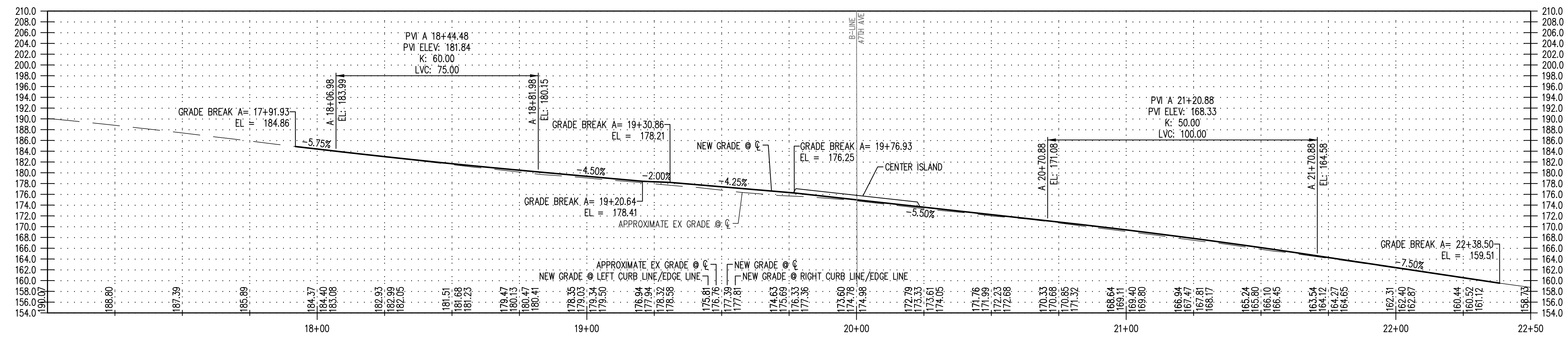
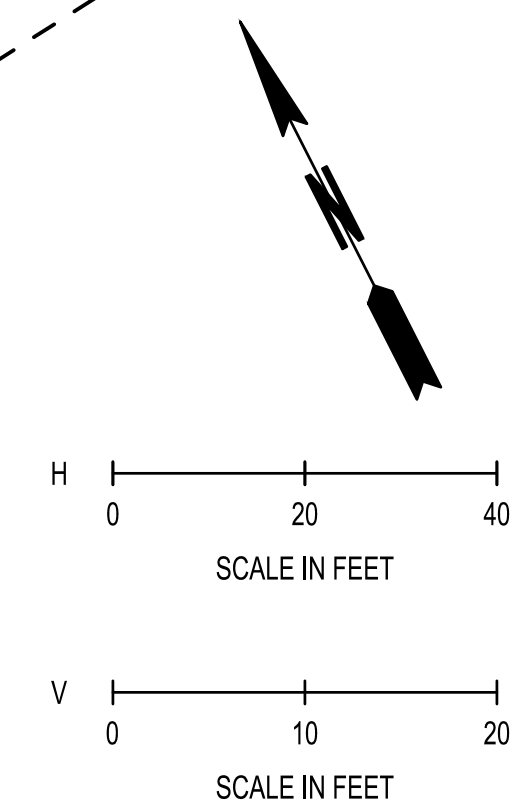
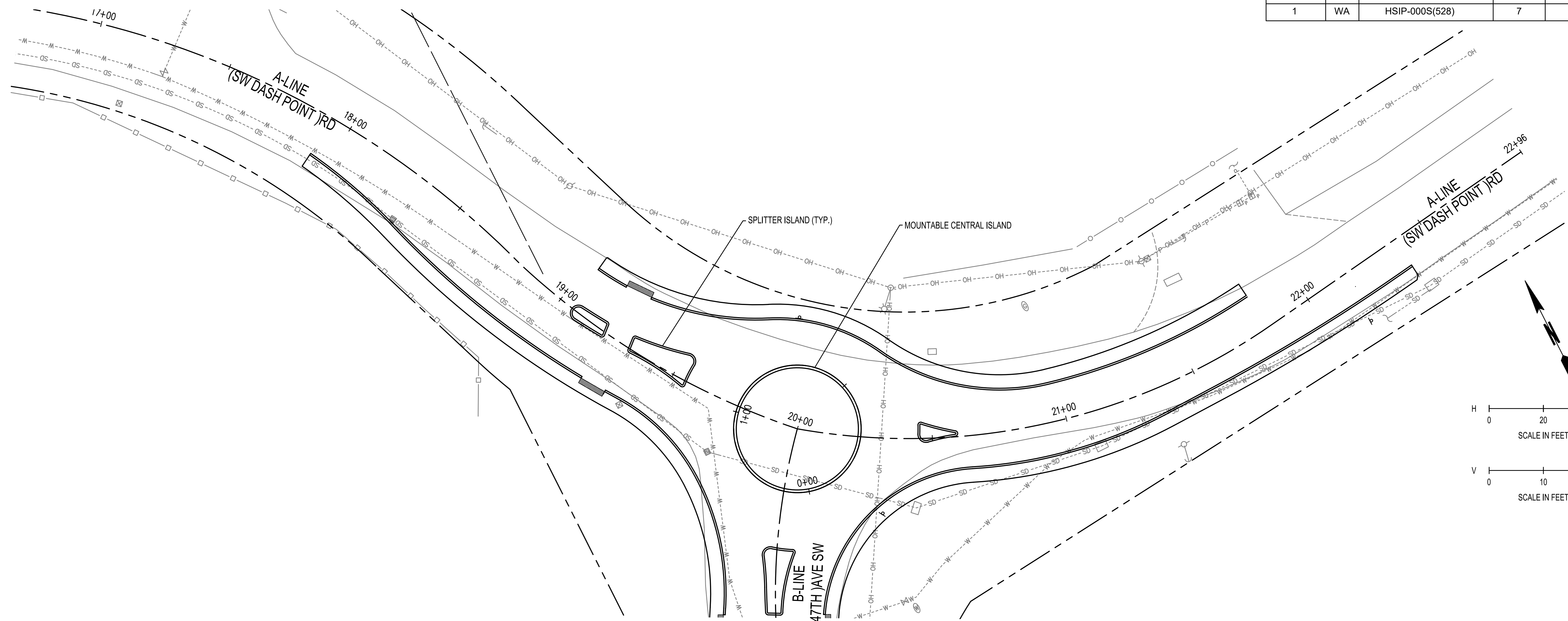
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SW DASH POINT ROAD & 47TH AVE SW COMPACT ROUNDABOUT
ROUNDABOUT LAYOUT

CITY PROJECT #: 36217
SHT. 6
OF 21

REGION NO.	STATE	FEDERAL AND PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	WA	HSIP-000S(528)	7	21



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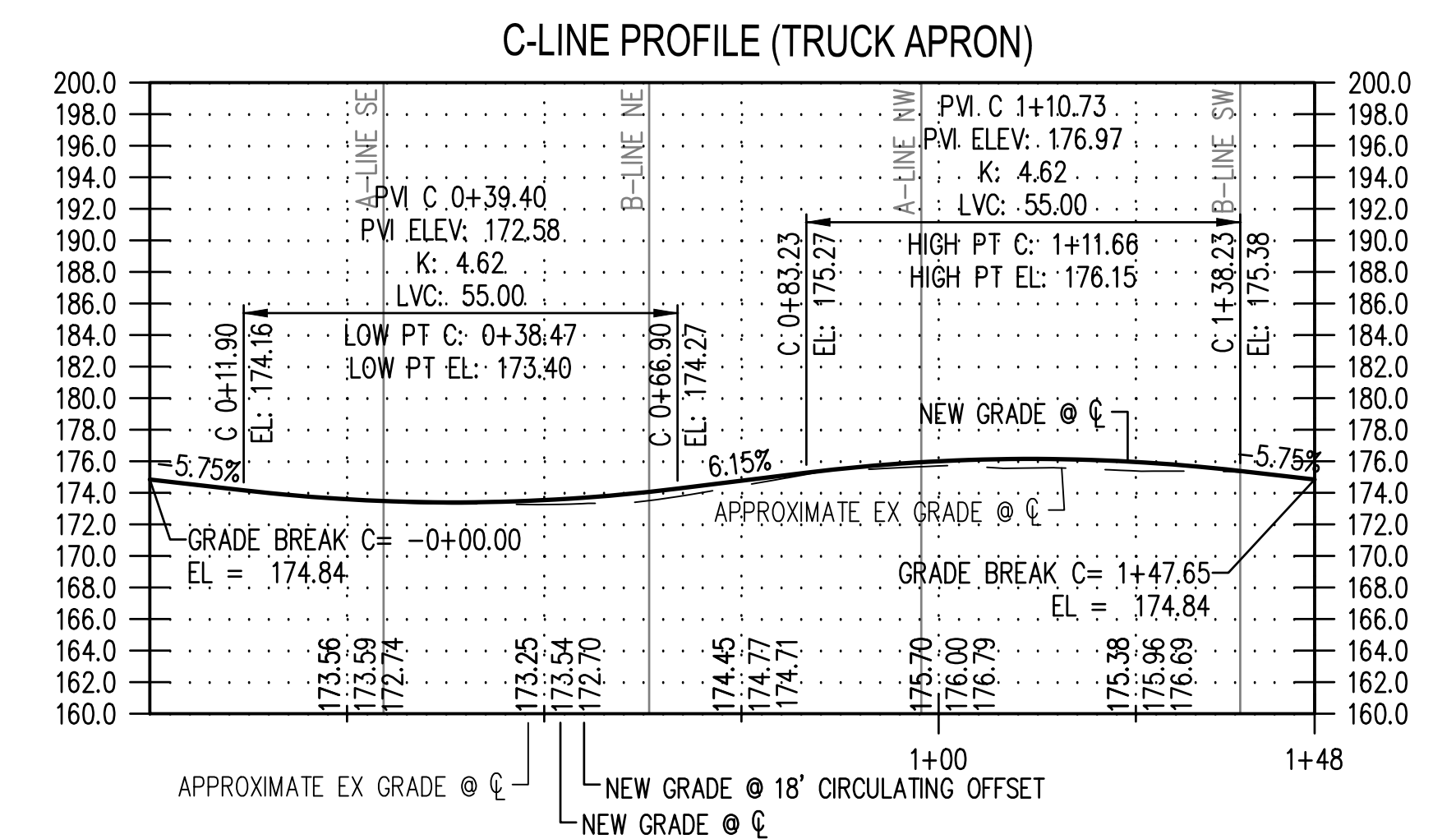
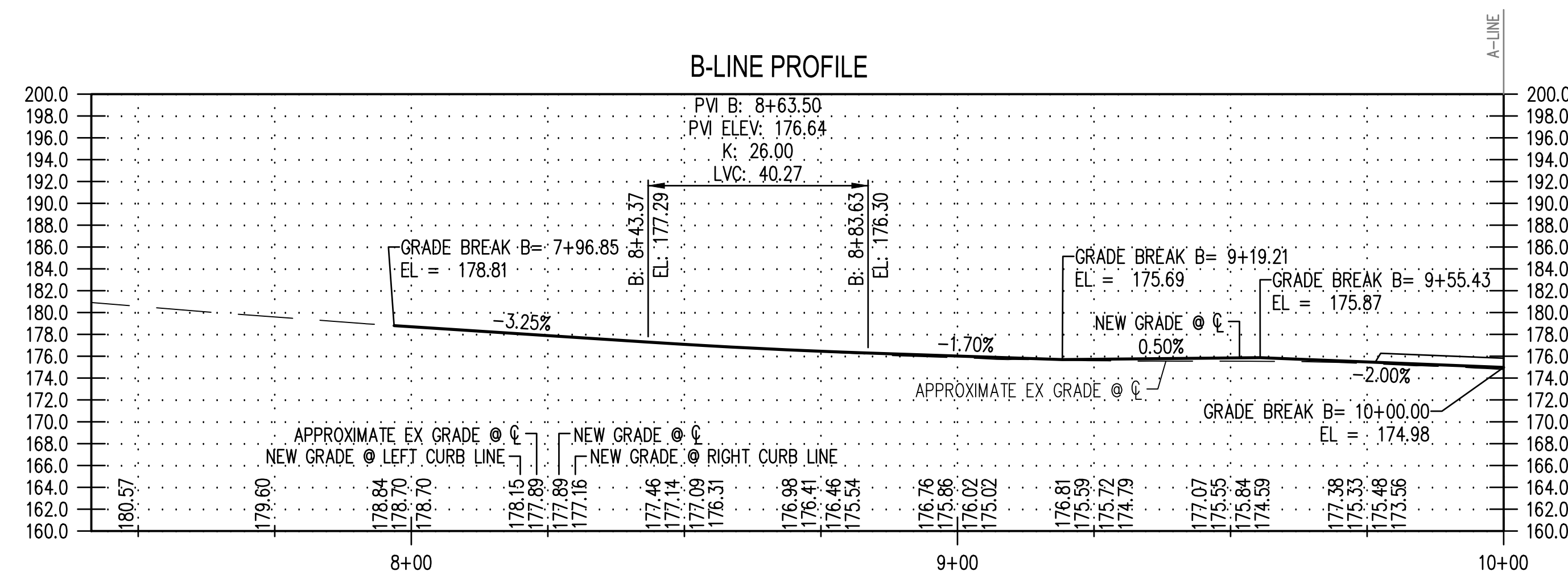
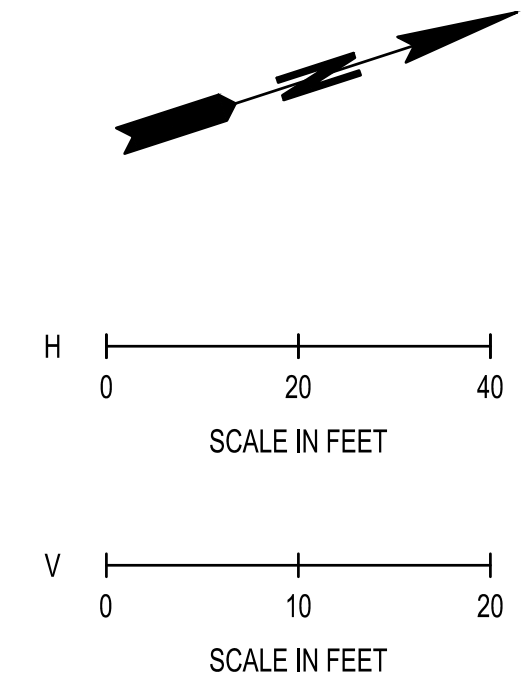
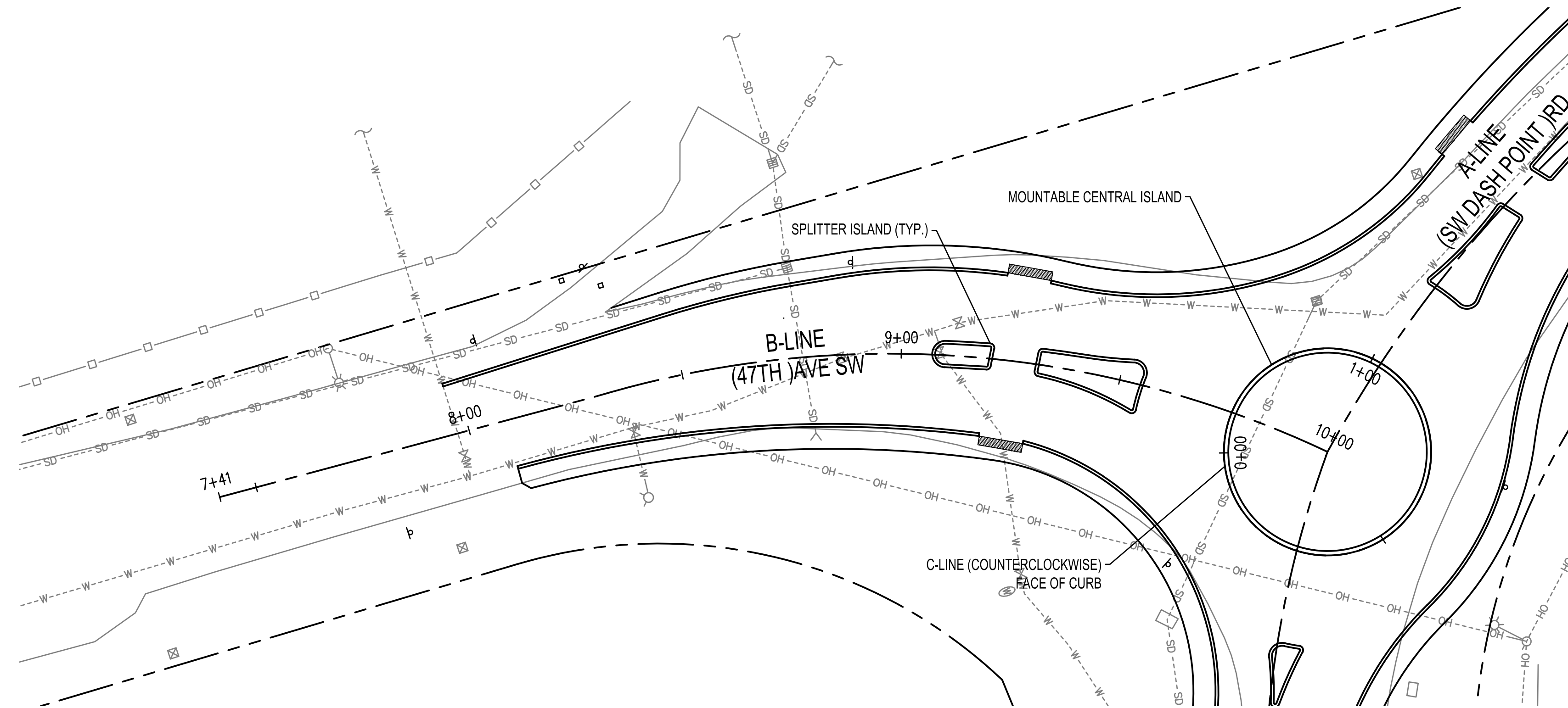
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NO.	DATE	REVISION

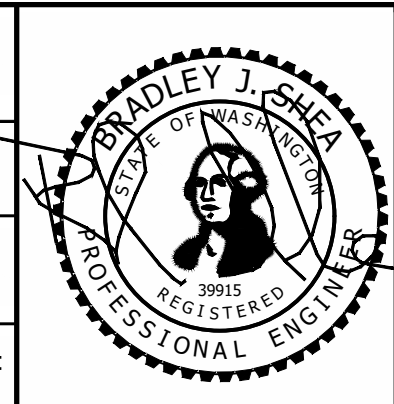
SW DASH POINT ROAD & 47TH AVE SW COMPACT ROUNDABOUT
ROADWAY PLAN AND PROFILES
SW DASH PT RD

CITY PROJECT #:	36217
SHT.	7
OF	21



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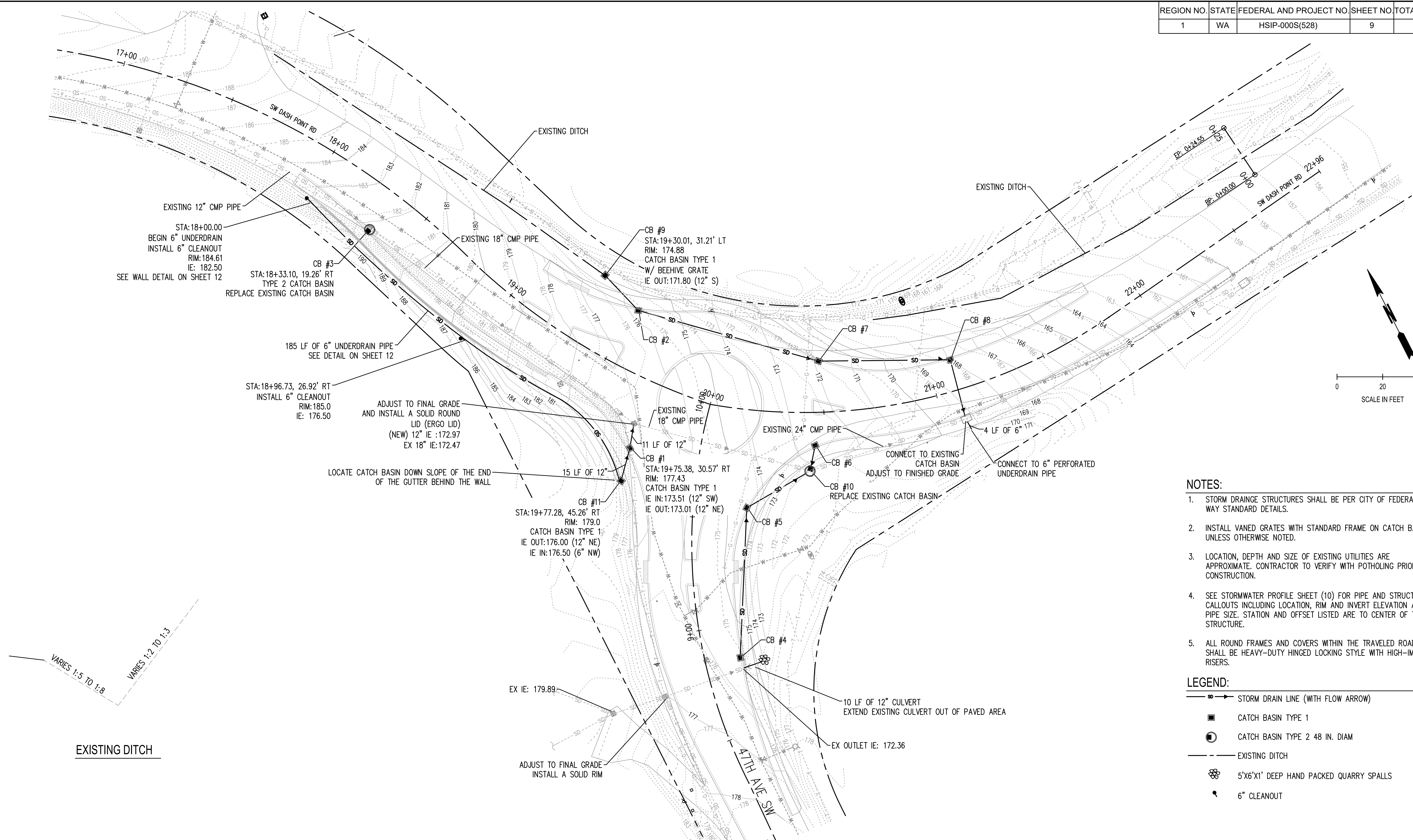
DRAFTED: MBW
DESIGNED: MBW
REVIEWED: CMJ
APPROVED: CMJ & BJS



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NO.	DATE	REVISION

SW DASH POINT ROAD & 47TH AVE SW COMPACT ROUNDABOUT ROADWAY PLAN AND PROFILES 47TH AVE SW

CITY PROJECT #: 36217
SHT. 8
OF 21



- NOTES:**
- STORM DRAINAGE STRUCTURES SHALL BE PER CITY OF FEDERAL WAY STANDARD DETAILS.
 - INSTALL VANED GRATES WITH STANDARD FRAME ON CATCH BASINS UNLESS OTHERWISE NOTED.
 - LOCATION, DEPTH AND SIZE OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO VERIFY WITH POT-HOLING PRIOR TO CONSTRUCTION.
 - SEE STORMWATER PROFILE SHEET (10) FOR PIPE AND STRUCTURE CALLOUTS INCLUDING LOCATION, RIM AND INVERT ELEVATION AND PIPE SIZE. STATION AND OFFSET LISTED ARE TO CENTER OF THE STRUCTURE.
 - ALL ROUND FRAMES AND COVERS WITHIN THE TRAVELED ROADWAY SHALL BE HEAVY-DUTY HINGED LOCKING STYLE WITH HIGH-IMPACT RISERS.

- LEGEND:**
- STORM DRAIN LINE (WITH FLOW ARROW)
 - CATCH BASIN TYPE 1
 - CATCH BASIN TYPE 2 48 IN. DIAM
 - EXISTING DITCH
 - 5'x6'x1' DEEP HAND PACKED QUARRY SPALLS
 - 6" CLEANOUT

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REVIEWED:	BJS
APPROVED:	CMJ

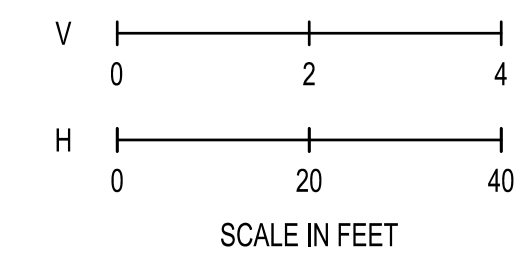
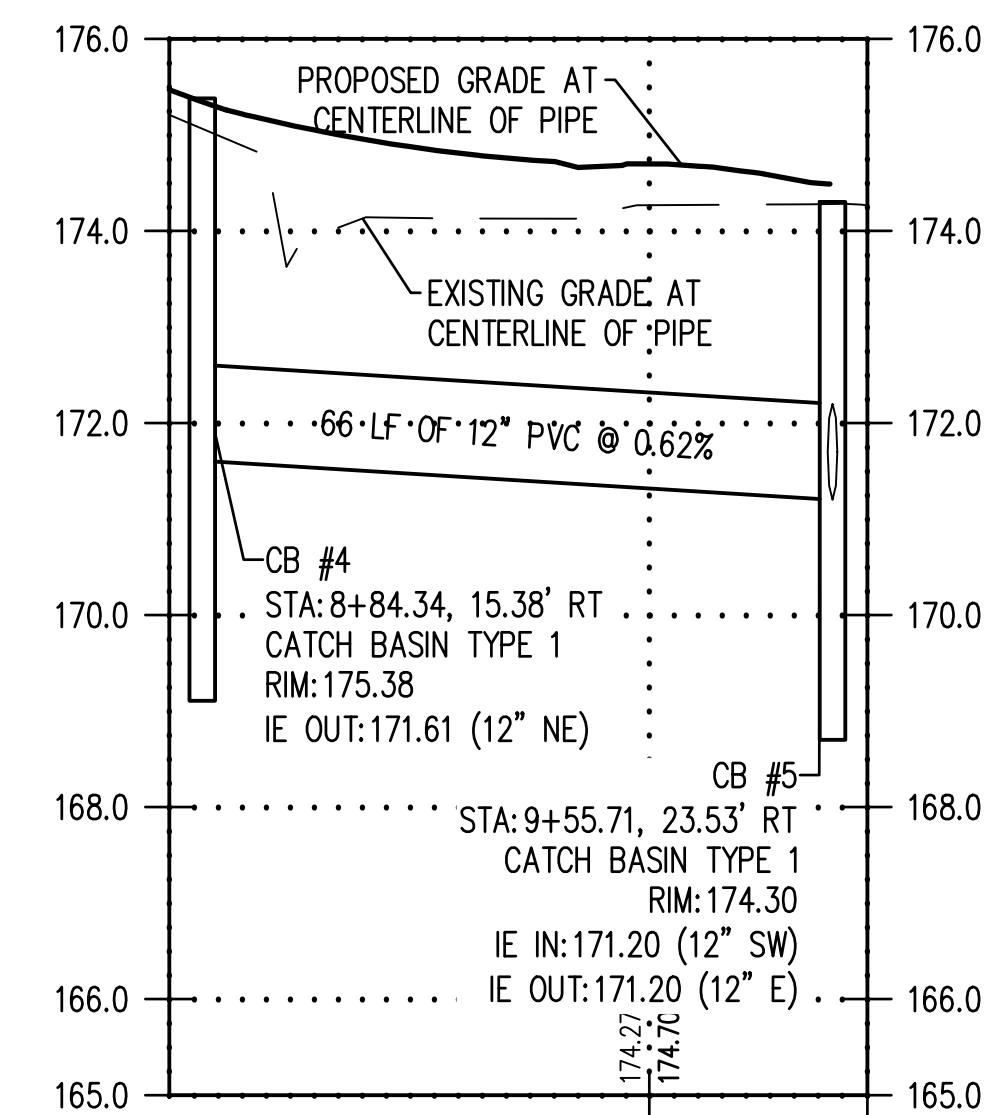
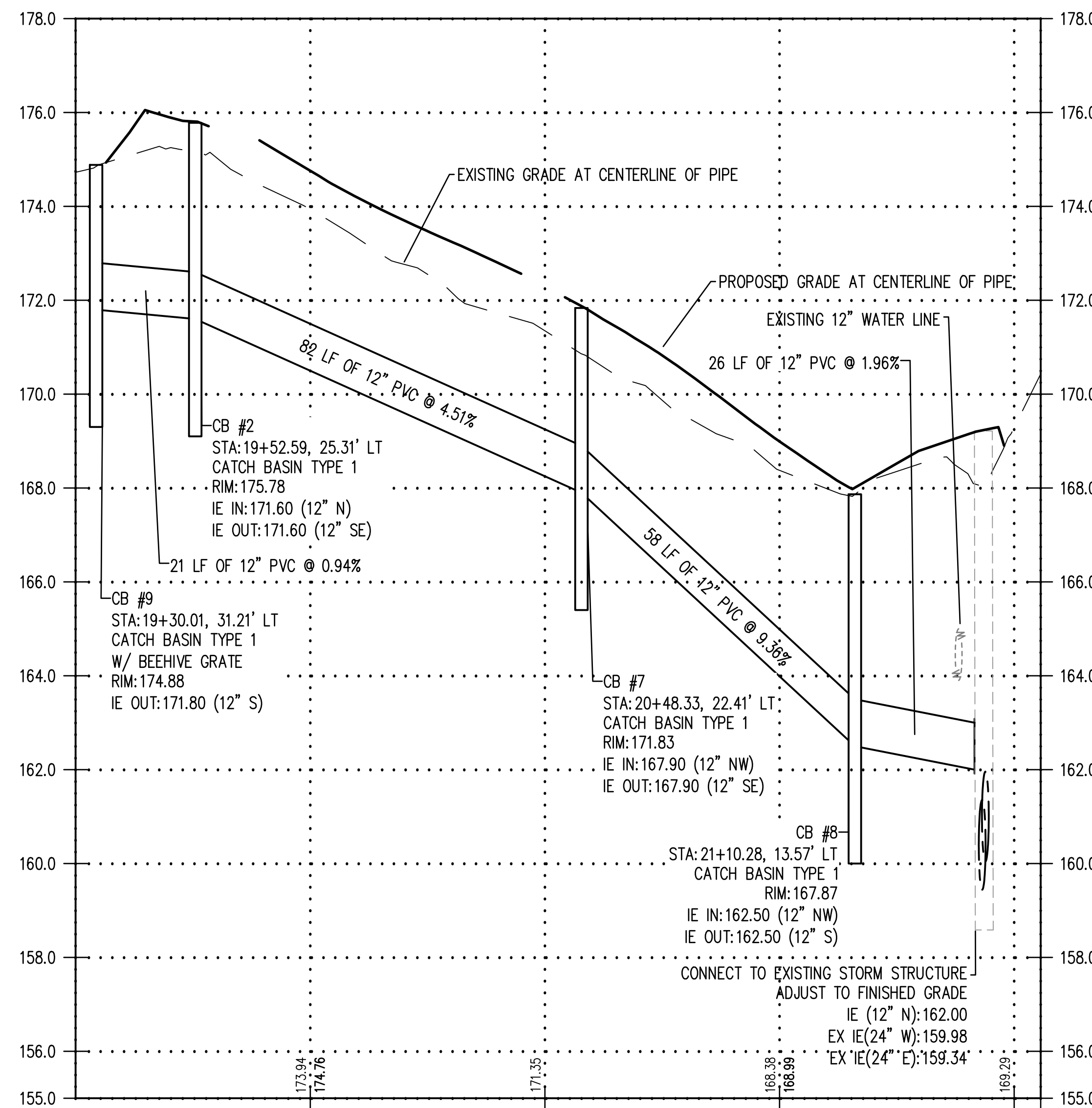
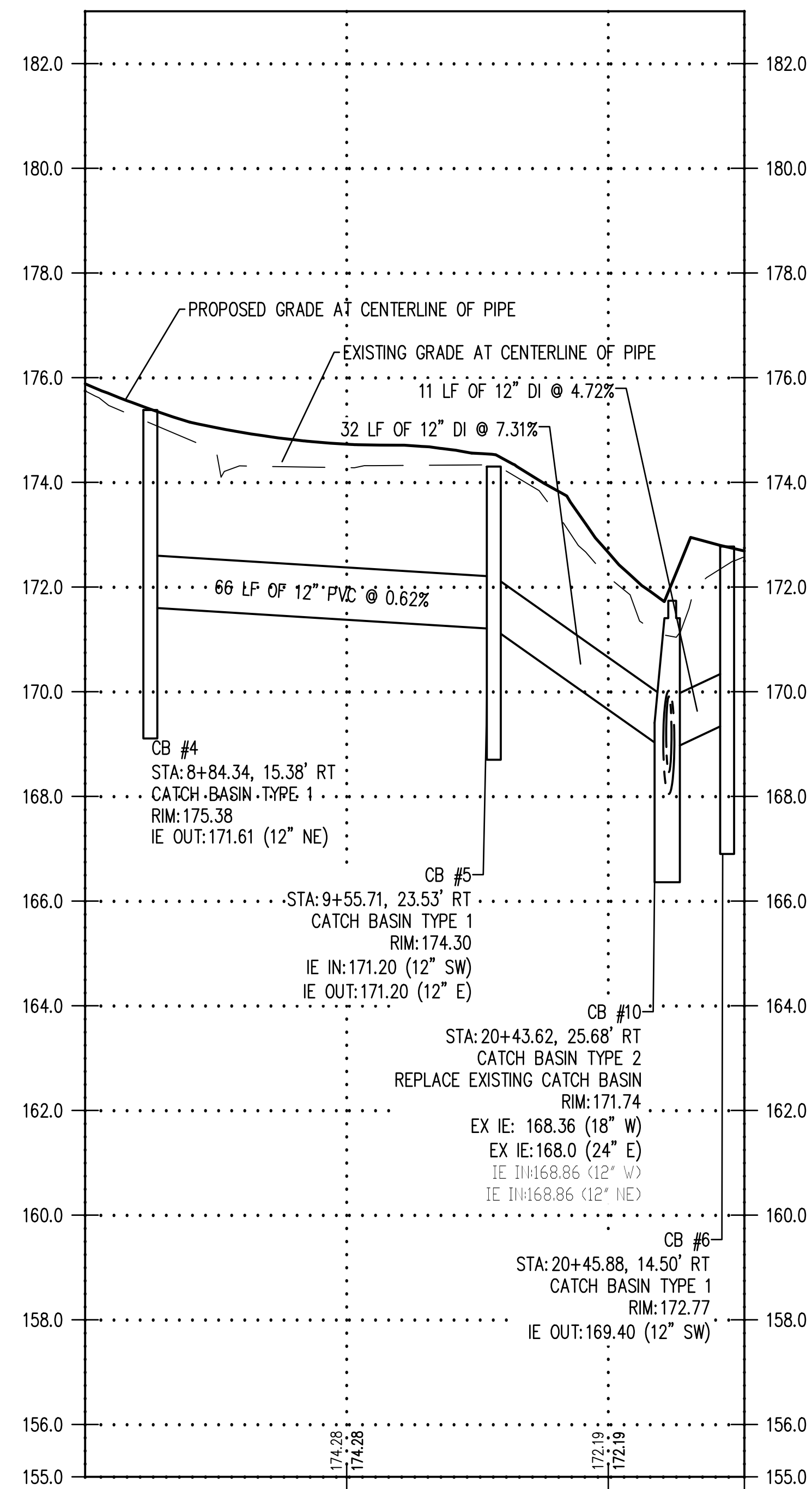


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NO.	DATE	REVISION

SW DASH POINT ROAD & 47TH AVE SW COMPACT ROUNDABOUT

STORMWATER PLAN

CITY PROJECT #:	36217
SHT.	9
OF	21

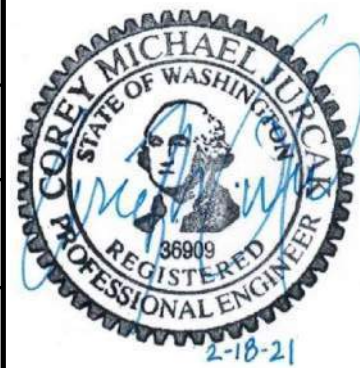


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APPROVED:	CMJ



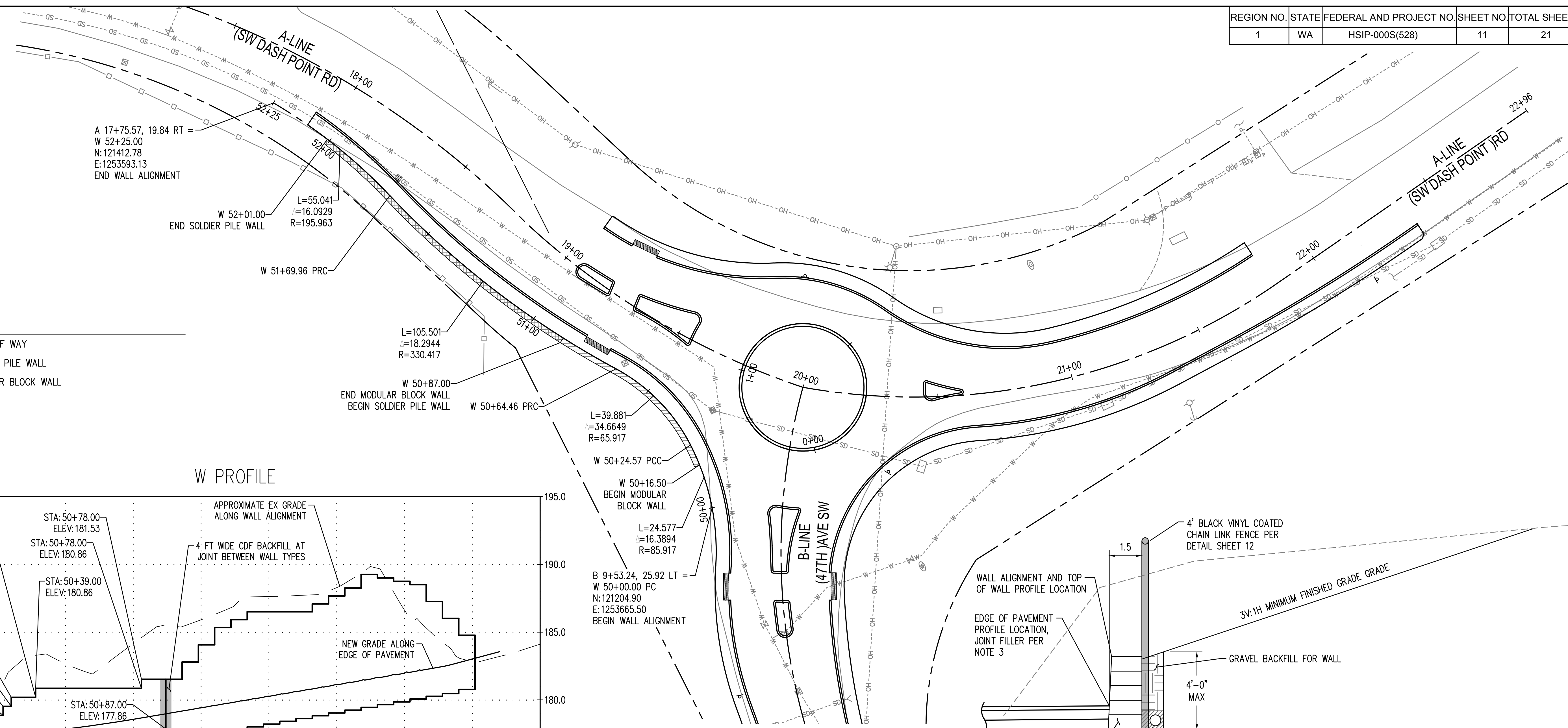
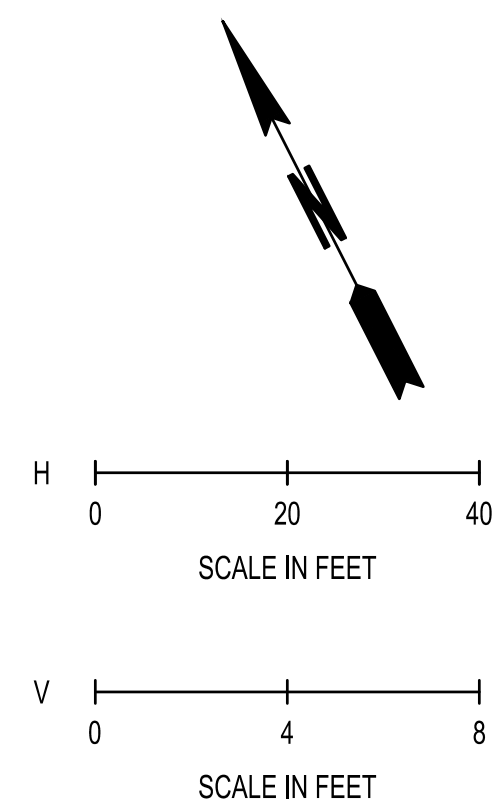
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NO.	DATE	REVISION

SW DASH POINT ROAD & 47TH AVE SW COMPACT ROUNDABOUT

STORMWATER PROFILES

CITY PROJECT #:	36217
SHT.	10
OF	21

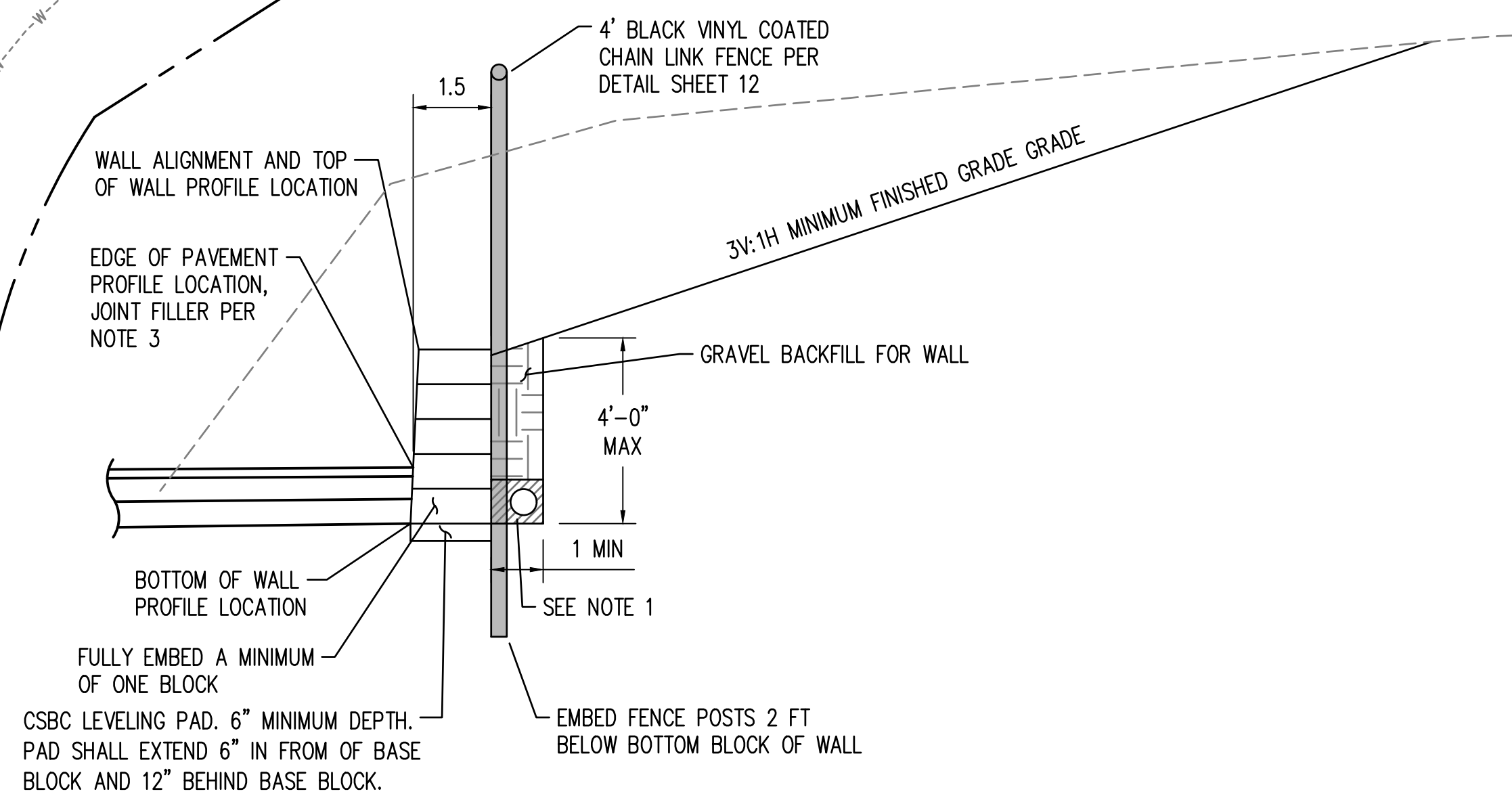
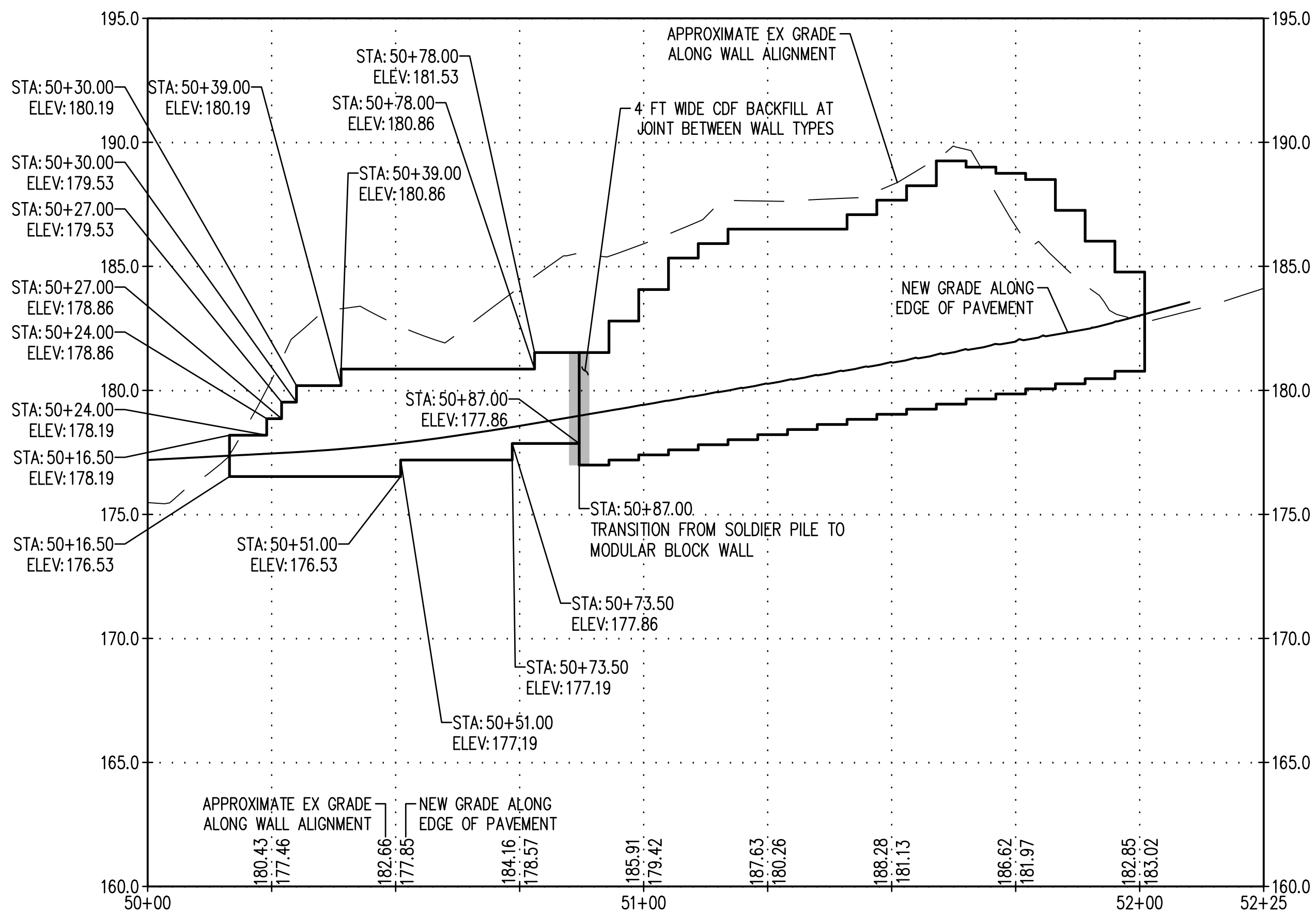
REGION NO.	STATE	FEDERAL AND PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	WA	HSIP-000S(528)	11	21



LEGEND

	RIGHT OF WAY
	SOLDIER PILE WALL
	MODULAR BLOCK WALL

W PROFILE



- NOTES:**
1. THE UNDERDRAIN PIPE BEHIND THE WALL SHALL HAVE A NOMINAL INSIDE DIAMETER OF 6 INCHES AND SHALL COMPLY WITH THE WASHINGTON DEPARTMENT OF TRANSPORTATION 2021 STANDARD SPECIFICATIONS SECTIONS 9-30.1(5)B AND 9-30.2(5).
 2. END OF WALL SHALL HAVE FINISHED END/CORNER BLOCKS OR BE WRAPPED BACK INTO THE SLOPE AS APPROVED BY THE ENGINEER. UNFINISHED SIDES OF BLOCKS SHALL NOT BE VISIBLE. EXPOSED ENDS OF LEVELS AT WALL STEPS AND CHANGES IN ELEVATION SHALL ALSO HAVE FINISHED END/CORNER BLOCKS.
 3. PROVIDE 1/2" PRE-MOLDED JOINT FILLER COMPLYING WITH WSDOT 2021 STANDARD SPECIFICATIONS 9-04.1(2).

MODULAR BLOCK WALL DETAIL

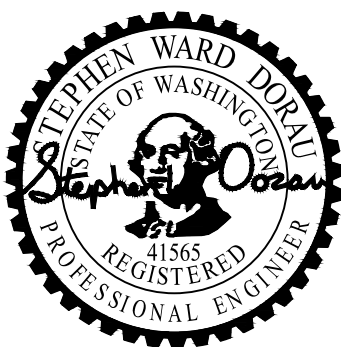
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APPROVED:	SWD

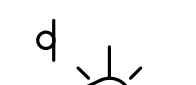



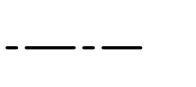


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NO.	DATE	REVISION

SW DASH POINT ROAD & 47TH AVE SW COMPACT ROUNDABOUT
WALL PLAN AND PROFILES
SW DASH PT RD

CITY PROJECT #:	36217
SHT.	11
OF	21

LEGEND

- PROPOSED
-  SIGN
 -  ILLUMINATION POLE
 -  JUNCTION BOX (TYPE 1, 2)
 -  SERVICE CABINET
 -  CONDUIT

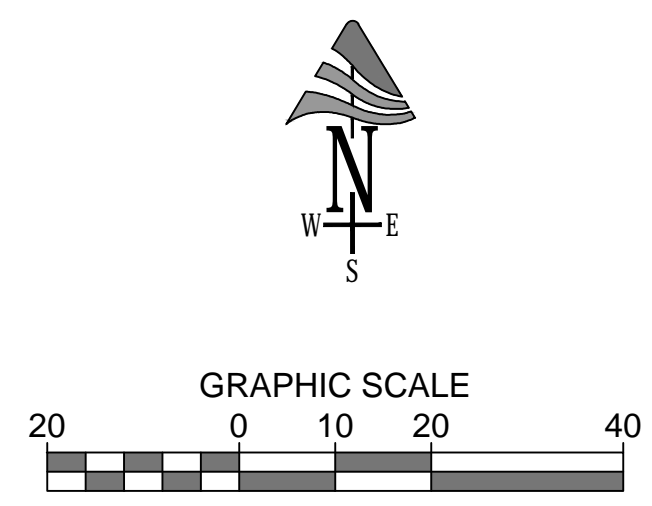
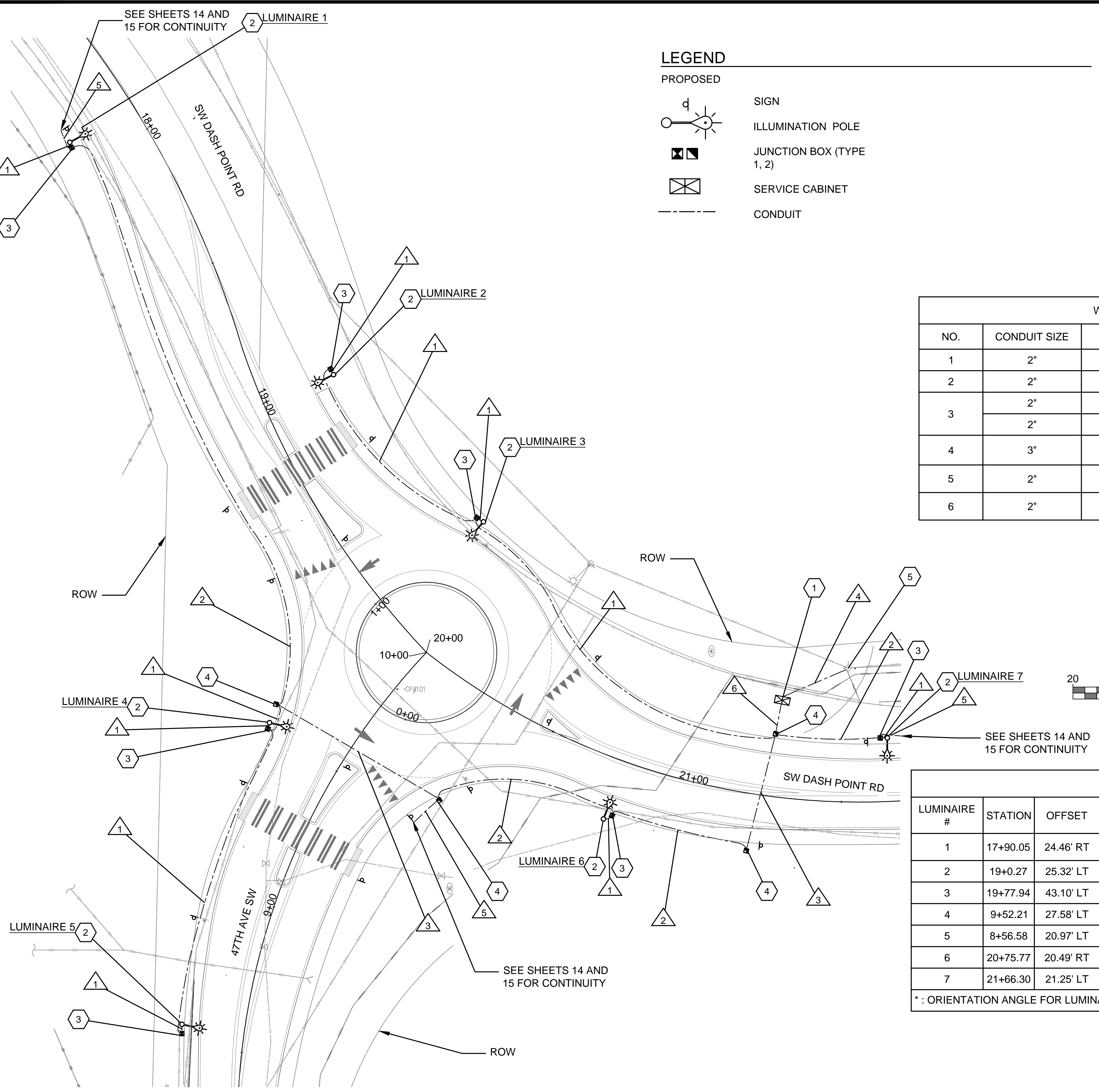
GENERAL NOTES

- ALL ILLUMINATION DESIGN AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH CFW STD. DETAILS 3-38 THRU 3-41 AND 3-45 UNLESS OTHERWISE NOTED.
- THE LOCATION OF ALL CONDUIT, JUNCTION BOXES SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY AND FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD. THE LOCATION OF ALL LUMINAIRES SHALL FOLLOW THE STATIONING SHOWN ON THE PLAN. ALL EQUIPMENT AND CONSTRUCTION ACTIVITIES SHALL BE LOCATED WITHIN THE CITY OF FEDERAL WAY RIGHT-OF-WAY.
- ALL NEW LUMINAIRE POLE SHALL BE PLACED MINIMUM 6' BEHIND THE FACE OF EXTRUDED CURB WHEN PRESENT.
- ALL ILLUMINATION NOT CALLED OUT TO BE REMOVED SHALL BE PROTECTED DURING CONSTRUCTION.
- ALL NEW JUNCTION BOXES INSTALLED IN SOFTSCAPE SHALL HAVE CONCRETE COLLARS PER CITY OF FEDERAL WAY DWG 3-39A.

CONSTRUCTION NOTES

- CONSTRUCT FOUNDATION AND FURNISH AND INSTALL A NEW SERVICE CABINET WITH FRONT DOOR FACING SOUTHWEST PER CFW STD. DETAIL 3-45.
- CONSTRUCTION FOUNDATION AND INSTALL A NEW LUMINAIRE POLE WITH A LUMINAIRE ARM PER CFW STD. DETAILS 3-39, 3-39A AND 3-39B. FURNISH AND INSTALL A NEW LED LUMINAIRE. SEE ILLUMINATION SCHEDULE AND SPECIAL PROVISION.
- INSTALL TYPE 1 JUNCTION BOX PER WSDOT STD PLAN J-40.10-04.
- INSTALL TYPE 2 JUNCTION BOX PER WSDOT STD PLAN J-40.10-04.
- MAINTAIN AND PROTECT EXISTING POWER POLE. INSTALL 10' RISER ON THE POLE WITH 45' WIRE COIL. PROVIDE 25' RISER AND WEATHER HEAD FOR PSE TO FINISH THE POWER CONNECTION.

NO.	CONDUIT SIZE	#8	#1	NOTES
1	2"	3		
2	2"	5		
3	2"	5		SPARE
4	3"		3	SEVICE CONNECTION
5	2"	2		SEE SHEETS 14 & 15
6	2"	7		



LUMINAIRE #	STATION	OFFSET	LUMINAIRE ARM ORIENTATION*	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
1	17+90.05	24.46' RT	61°	COBRA, 83W, 4000K, 60 LED, 530MA (MII-B3-U0-G3), 240 V	8'	35'	FIXED	B	
2	19+0.27	25.32' LT	218°	COBRA, 83W, 4000K, 60 LED, 530MA (MII-B3-U0-G3), 240 V	8'	35'	FIXED	A	
3	19+77.94	43.10' LT	243°	COBRA, 83W, 4000K, 60 LED, 530MA (MII-B3-U0-G3), 240 V	8'	35'	FIXED	A	
4	9+52.21	27.58' LT	108°	COBRA, 83W, 4000K, 60 LED, 530MA (MII-B3-U0-G3), 240 V	8'	35'	FIXED	B	
5	8+56.58	20.97' LT	99°	COBRA, 83W, 4000K, 60 LED, 530MA (MII-B3-U0-G3), 240 V	8'	35'	FIXED	B	
6	20+75.77	20.49' RT	22°	COBRA, 83W, 4000K, 60 LED, 530MA (MII-B3-U0-G3), 240 V	8'	35'	FIXED	B	
7	21+66.30	21.25' LT	180°	COBRA, 83W, 4000K, 60 LED, 530MA (MII-B3-U0-G3), 240 V	8'	35'	FIXED	A	

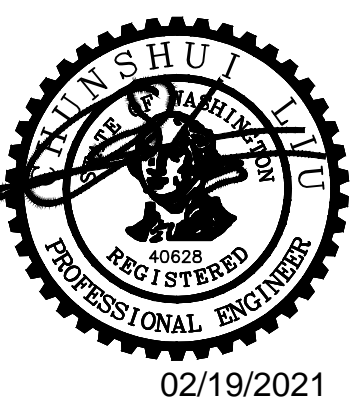
* : ORIENTATION ANGLE FOR LUMINAIRE ARM, DUE NORTH IS 0°

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REVIEWED: CLM
APPROVED: JXL

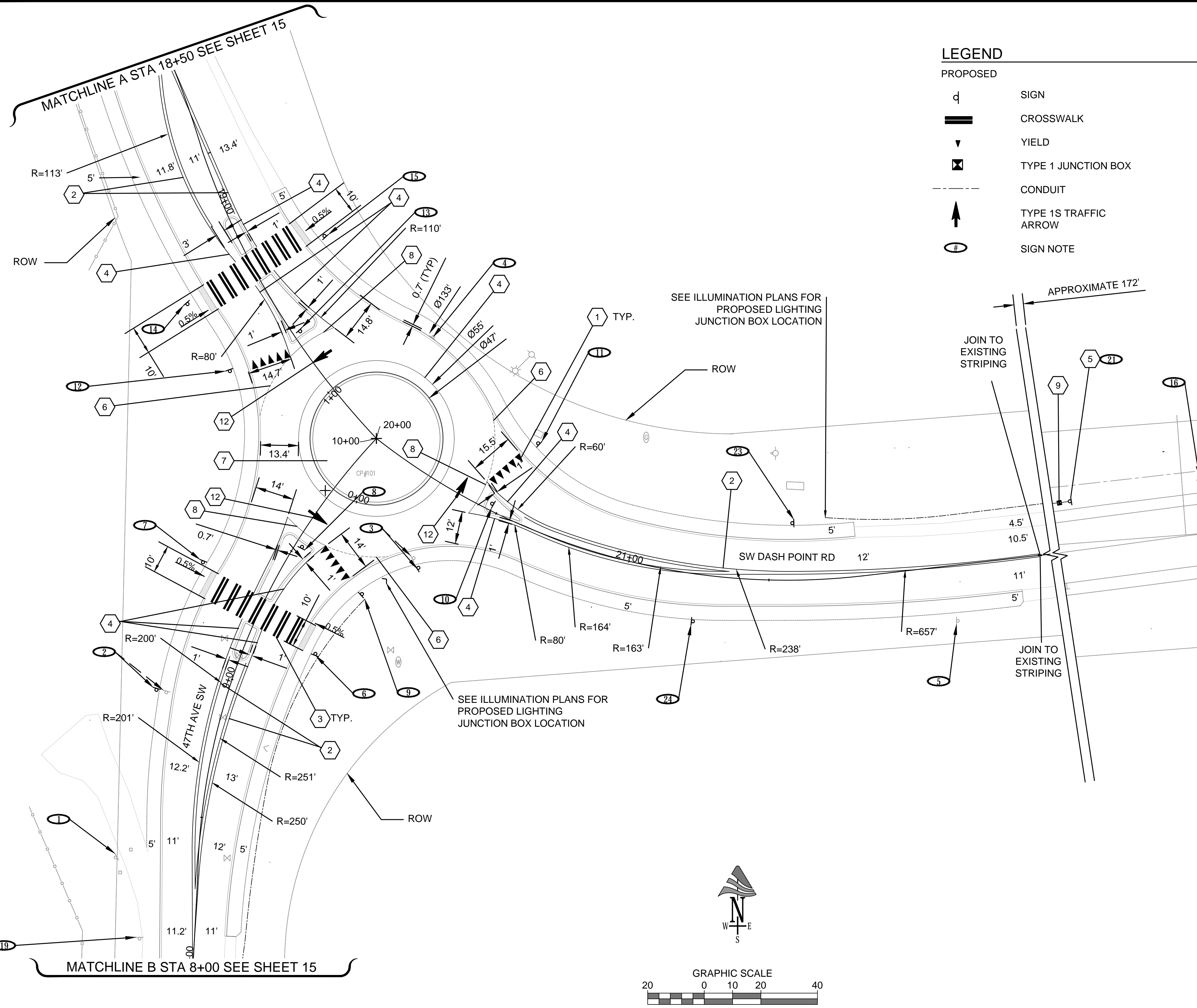


NO.	DATE	REVISION

SW DASH POINT & 47TH AVE SW COMPACT ROUNDABOUT

ILLUMINATION PLAN
SW DASH POINT RD & 47TH AVE SW

CITY PROJECT #: 36217
SHT. 13
OF 21



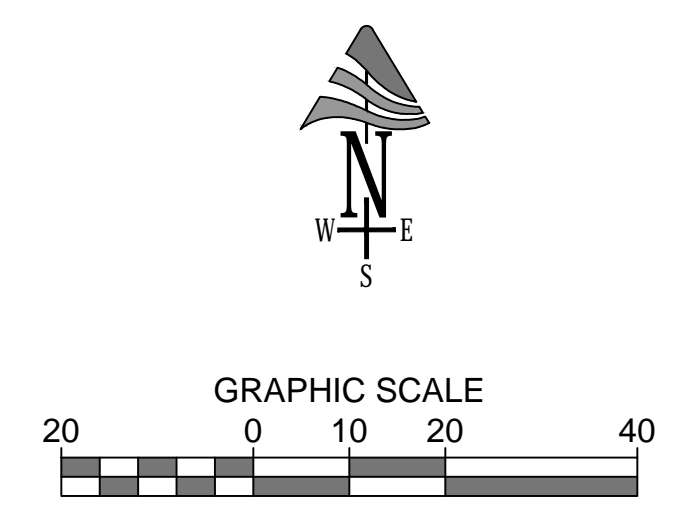
LEGEND

PROPOSED

- SIGN
- ▬ CROSSWALK
- ▼ YIELD
- ⊠ TYPE 1 JUNCTION BOX
- CONDUIT
- ↑ TYPE 1S TRAFFIC ARROW
- ⊙ SIGN NOTE

- GENERAL NOTES**
- REMOVE ALL CONFLICTING EXISTING CHANNELIZATION.
 - ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CFW STANDARD DETAILS 3-17 THRU 3-21 UNLESS OTHERWISE NOTED.
 - OFFSET SIGN 1' FROM BACK OF WALKWAY (WHEN PRESENT) UNLESS OTHERWISE NOTED.
 - NEW AND RELOCATED SIGNS SHALL BE INSTALLED ON NEW TYPE ST-2 POSTS PER WSDOT STD PLAN G-24.50-05.
 - ALL SIGNS NOT CALLED OUT TO BE REMOVED OR RELOCATED SHALL BE PROTECTED DURING CONSTRUCTION.
 - SEE SHEET 16 FOR SIGN SCHEDULE AND DETAILS.

- CONSTRUCTION NOTES**
- INSTALL HOT APPLIED THERMOPLASTIC YIELD LINE SYMBOLS TYPE 2 PER WSDOT STD. PLAN M-24.60-04.
 - INSTALL 4" PLASTIC PROFILED DOUBLE YELLOW CENTERLINE, (MATERIAL TYPE D), PER CFW STD DET 3-17.
 - INSTALL HOT APPLIED THERMOPLASTIC CROSSWALK LINE (MATERIAL TYPE A), PER CFW STD DETAIL 3-21.
 - INSTALL 4" MMA PROFILED YELLOW EDGE LINE WITH TYPE 2 RPMs PER CFW STD. DETAIL 3-17
 - CONSTRUCT FOUNDATION AND INSTALL SIGN POLE, W2-1 ROUNDABOUT SIGN AND TWO FLASHING BEACONS PER WSDOT STD. PLAN J-21.17-01. RUN TWO NEW #8 IN A NEW 1" CONDUIT TO THE CLOSEST PROPOSED JUNCTION BOX. SEE SPECIAL PROVISIONS.
 - INSTALL 8" HOT APPLIED THERMOPLASTIC WHITE WIDE DOTTED ENTRY LANE LINE PER WSDOT STD. PLAN M-12.10-01.
 - INSTALL RED MMA PAVEMENT MARKING ON THE ROUNDABOUT CENTER ISLAND.
 - INSTALL 8" HOT APPLIED THERMOPLASTIC WHITE EDGE LINE PER WSDOT STD. PLAN M-12.10-01.
 - INSTALL TYPE 1 JUNCTION BOX PER WSDOT STD PLAN J-40.10-04.
 - INSTALL TYPE 1S THERMOPLASTIC TRAFFIC ARROW PER WSDOT STD. PLANS M-12.10-02 AND M-24.40-02.



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REVIEWED: CLM
APPROVED: JXL



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NO.	DATE	REVISION

SW DASH POINT & 47TH AVE SW COMPACT ROUNDABOUT

CHANNELIZATION & SIGNS PLAN
SW DASH POINT RD & 47TH AVE SW

CITY PROJECT #: 36217
SHT. 14
OF 21

GENERAL NOTES

- REMOVE ALL CONFLICTING EXISTING CHANNELIZATION.
- ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CFW STANDARD DETAILS 3-17 THRU 3-21 UNLESS OTHERWISE NOTED.
- OFFSET SIGN 1' FROM BACK OF WALKWAY (WHEN PRESENT) UNLESS OTHERWISE NOTED.
- NEW AND RELOCATED SIGNS SHALL BE INSTALLED ON NEW TYPE ST-2 POSTS PER WSDOT STD PLAN G-24.50-05.
- ALL SIGNS NOT CALLED OUT TO BE REMOVED OR RELOCATED SHALL BE PROTECTED DURING CONSTRUCTION.
- SEE SHEET 16 FOR SIGN SCHEDULE AND DETAILS.

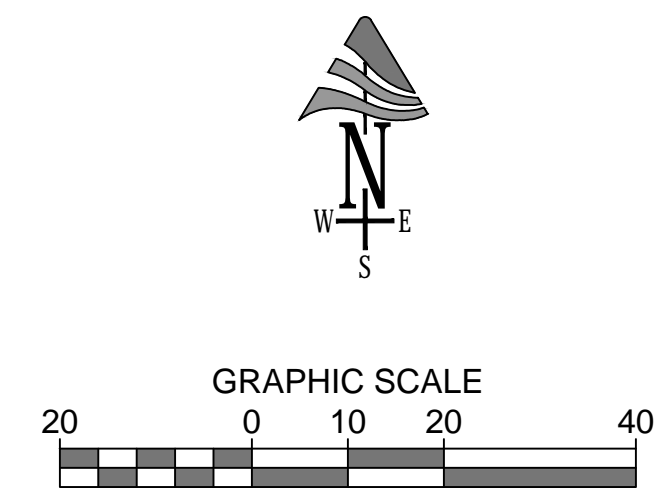
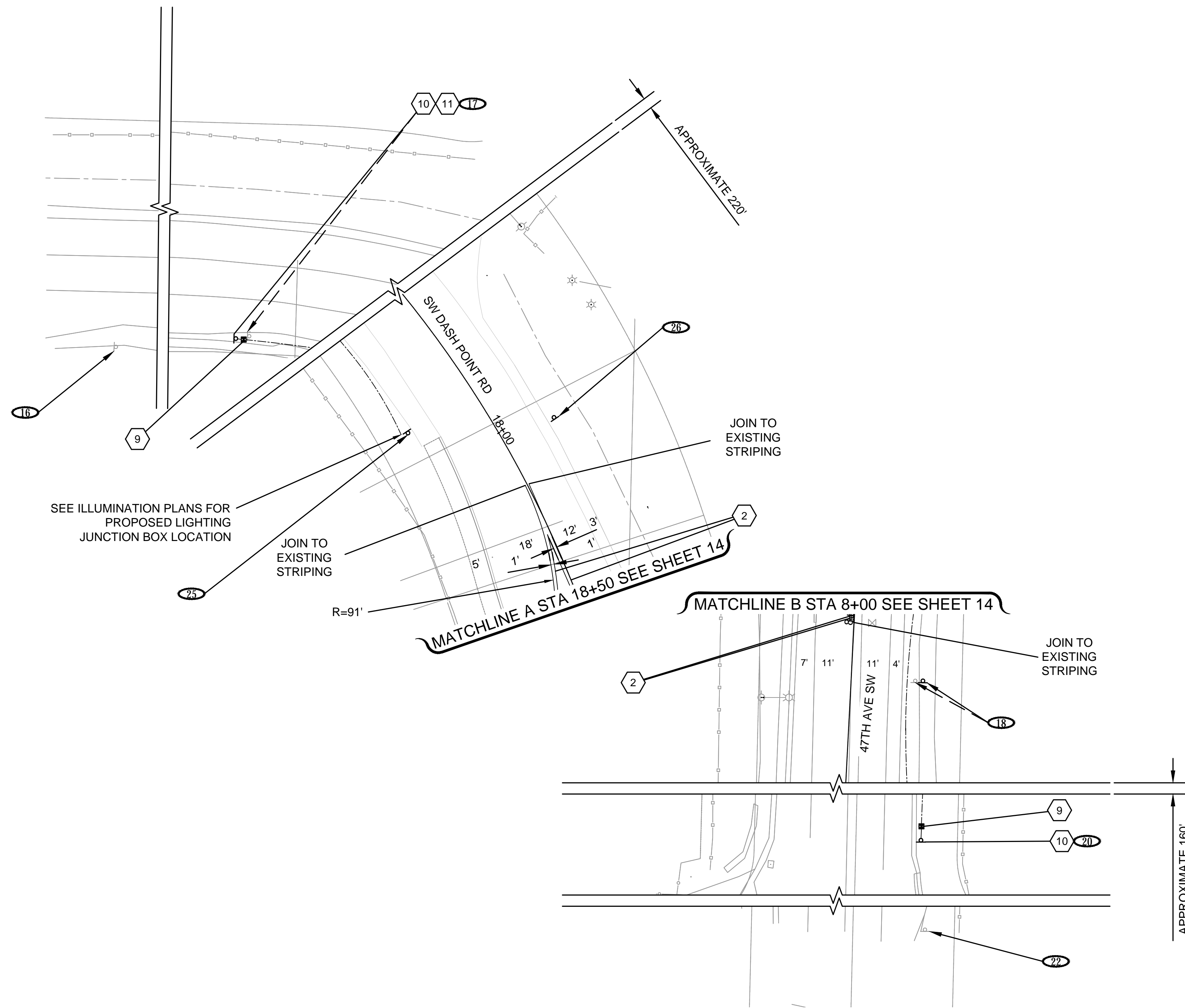
CONSTRUCTION NOTES

- INSTALL 4" PLASTIC PROFILED DOUBLE YELLOW CENTERLINE, (MATERIAL TYPE D), PER CFW STD DET 3-17.
- INSTALL TYPE 1 JUNCTION BOX PER WSDOT STD PLAN J-40.10-04.
- REMOVE EXISTING SIGN POST. CONSTRUCT FOUNDATION AND INSTALL SIGN POLE, W2-1 ROUNDABOUT SIGN AND TWO FLASHING BEACONS PER WSDOT STD. PLAN J-21.17-01. RUN TWO NEW #8 IN A NEW 1" CONDUIT TO THE CLOSEST PROPOSED JUNCTION BOX. SEE SPECIAL PROVISIONS.
- RELOCATE EXISTING SIGN TO NEW SIGN POST.

LEGEND

PROPOSED

- SIGN
- ⊠ TYPE 1 JUNCTION BOX
- CONDUIT
- Ⓢ SIGN NOTE



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DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

SIGN SCHEDULE

SIGN NO.	SIGN CODE	DESCRIPTION	STATION	OFFSET	SIZE	REMARKS
1	-	EX. STORM WATER POND INFORMATION SIGN	EX	EX	EX" X EX"	PROTECT IN PLACE
2	-	EX. NO TRUCKS OVER 15 TONS GVWR EXCEPT LOCAL DELIVERIES	8+89.09	24.25' LT	EX" X EX"	RELOCATE
3	R1-1	EX. STOP SIGN	9+71.88	40.71' RT	EX" X EX"	REMOVE
	D3-1	EX. STREET NAME SIGNS			EX" X EX"	RELOCATE
4	W1-7	EX. TWO DIRECTIONAL ARROW	EX	EX	EX" X EX"	REMOVE
5	R2-1	EX. SPEED 35 LIMIT	EX	EX	EX" X EX"	PROTECT IN PLACE
6	W11-2	PEDESTRIAN	9+20.06	24.23' RT	30" X 30"	PROPOSED
	W16-7PL	DIAGONAL DOWNWARD ARROW LEFT SIGN			24" X 12"	
7	W11-2	PEDESTRIAN	9+32.49	25.49' LT	30" X 30"	PROPOSED
	W16-7PL	DIAGONAL DOWNWARD ARROW LEFT SIGN			24" X 12"	
8	R1-2	YIELD	9+53.28	2.45' RT	36" X 36"	PROPOSED
	R6-5P	ROUNDAABOUT CIRCULATION			30" X 30"	
9	R1-2	YIELD	9+49.83	29.21' RT	36" X 36"	PROPOSED
10	R1-2	YIELD	20+47.22	2.43' LT	36" X 36"	PROPOSED
	R6-5P	ROUNDAABOUT CIRCULATION			30" X 30"	
11	R1-2	YIELD	20+52.89	28.70' LT	36" X 36"	PROPOSED
12	R1-2	YIELD	19+51.35	25.88' RT	36" X 36"	PROPOSED
13	R1-2	YIELD	19+53.33	2.59' LT	36" X 36"	PROPOSED
	R6-5P	ROUNDAABOUT CIRCULATION			30" X 30"	
14	W11-2	PEDESTRIAN	19+25.70	26.59' RT	30" X 30"	PROPOSED
	W16-7PL	DIAGONAL DOWNWARD ARROW LEFT SIGN			24" X 12"	
15	W11-2	PEDESTRIAN	19+27.62	27.44' LT	30" X 30"	PROPOSED
	W16-7PL	DIAGONAL DOWNWARD ARROW LEFT SIGN			24" X 12"	
16	W1-3R	EX. CURVE AHEAD	EX	EX	EX" X EX"	PROTECT IN PLACE
	W13-1P-25	EX. ADVISORY SPEED			EX" X EX"	REMOVE
	W13-1P-20	ADVISORY SPEED			18" X 18"	PROPOSED
17	W2-4	EX. T INTERSECTION	14+81.32	22.55 RT	EX" X EX"	REMOVE
	W2-6	INTERSECTION WARNING			30" X 30"	PROPOSED
	W16-8P	EX. ADVANCED STREET NAME (1-LINE PLAQUE)			EX" X EX"	RELOCATE TO NEW SIGN POST
18	-	EX. DIRECTIONAL WAYFINDING SIGN	7+81.26	21.19' RT	EX" X EX"	RELOCATE
19	R2-1	EX. SPEED 35 LIMIT	EX	EX	EX" X EX"	PROTECT IN PLACE
20	W2-4	EX. T INTERSECTION	5+76.52	27.73' RT	EX" X EX"	REMOVE
	W2-6	INTERSECTION WARNING			30" X 30"	PROPOSED
21	W2-6	INTERSECTION WARNING	24+27.86	17.56' LT	30" X 30"	PROPOSED
22	RA-101	STOP AHEAD SIGN	EX	EX	EX" X EX"	REMOVE
	D1-201	[LEFT ARROW] SR 509 SOUTH SR 509 NORTH [RIGHT ARROW]			72" X 30"	PROPOSED
	W13-1P-20	ADVISORY SPEED			18" X 18"	PROPOSED
23	D1-201	[LEFT ARROW] 47TH AVE SW SR 509 SOUTH [THROUGH ARROW]	21+58.43	20.16' LT	78" X 30"	PROPOSED
24	M1-701 [MOD]	NORTH SR 509	21+25.23	16.74' RT	24" X 36"	PROPOSED
25	D1-201	[THROUGH ARROW] SR 509 NORTH 47TH AVE SW [RIGHT ARROW]	17+85.43	22.86' RT	78" X 30"	PROPOSED
26	M1-701 [MOD]	SOUTH SR 509	18+04.09	16.41' LT	24" X 36"	PROPOSED

EX: EXISTING SIZE

SIGN DETAILS

SIGNS 8, 10, 13, R1-2, R6-5P
 SIGNS 6, 7, 14, 15, W11-2, W16-7PL
 SIGN 9, 11, 12, R1-2
 SIGN 16, 22, W13-1P-20
 SIGN 17, 20, 21, W2-6
 SIGN 22, D1-201
 SIGN 23, D1-201
 SIGN 24, M1-701 [MOD]
 SIGN 25, D1-201
 SIGN 26, M1-701 [MOD]

NOTE:
1. ALL SIGN FACE MATERIALS SHALL MEET CFW STD. DETAIL 3-54.

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REVIEWED: CLM
APPROVED: JXL

PROFESSIONAL ENGINEER
02/19/2021

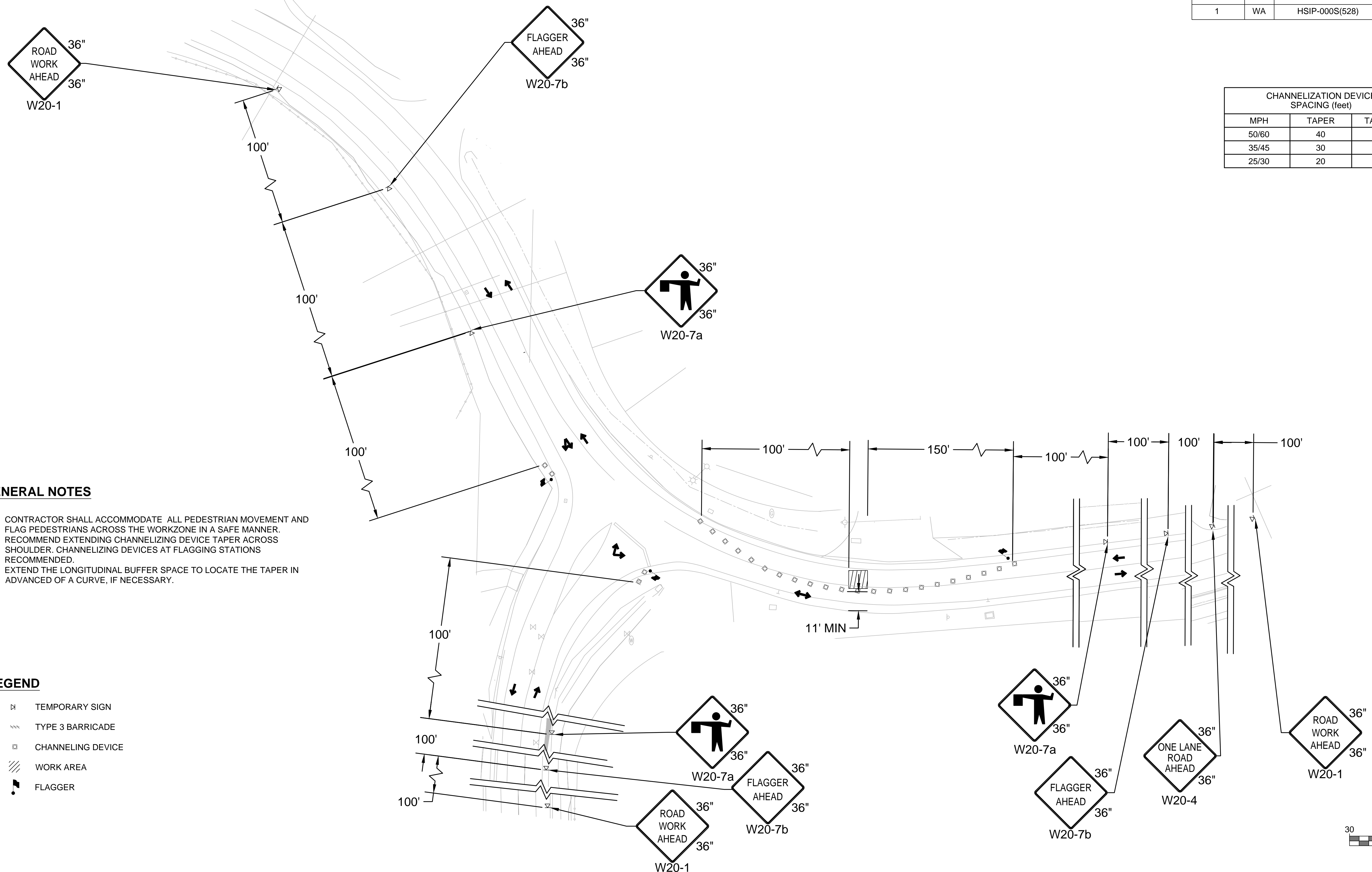
DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

SW DASH POINT & 47TH AVE SW COMPACT ROUNDABOUT

SIGN SCHEDULE & DETAILS

CITY PROJECT #: 36217
SHT. 16
OF 21

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



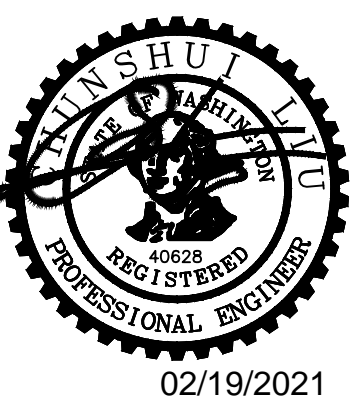
GENERAL NOTES

1. CONTRACTOR SHALL ACCOMMODATE ALL PEDESTRIAN MOVEMENT AND FLAG PEDESTRIANS ACROSS THE WORKZONE IN A SAFE MANNER.
2. RECOMMEND EXTENDING CHANNELIZING DEVICE TAPER ACROSS SHOULDER. CHANNELIZING DEVICES AT FLAGGING STATIONS RECOMMENDED.
3. EXTEND THE LONGITUDINAL BUFFER SPACE TO LOCATE THE TAPER IN ADVANCED OF A CURVE, IF NECESSARY.

LEGEND

- ⊠ TEMPORARY SIGN
- ≡ TYPE 3 BARRICADE
- ▣ CHANNELING DEVICE
- ▨ WORK AREA
- ⬮ FLAGGER

DRAFTED: JLB
 DESIGNED: AHC
 REVIEWED: CLM
 APPROVED: JXL



DRAWING VERSION / REVISION LOG		
NO.	DATE	REVISION

SW DASH POINT & 47TH AVE SW COMPACT ROUNDABOUT
TRAFFIC CONTROL PLAN
1 FLAGGING OPERATION FOR TRENCHING

CITY PROJECT #: 36217
 SHT. 17
 OF 21

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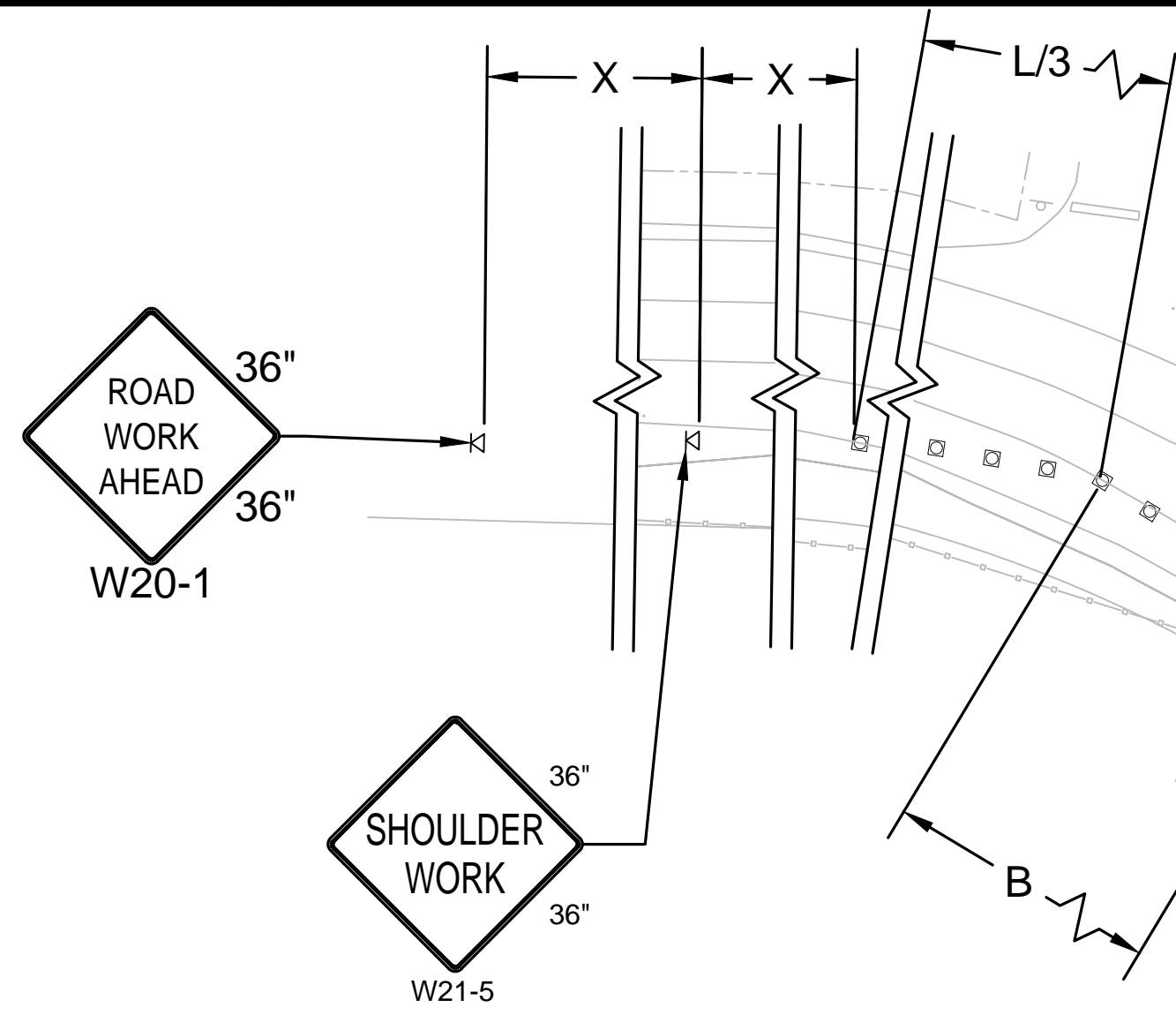
MPH	TAPER	TANGENT
50/60	40	80
35/45	30	60
25/30	20	40

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

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

GENERAL NOTES

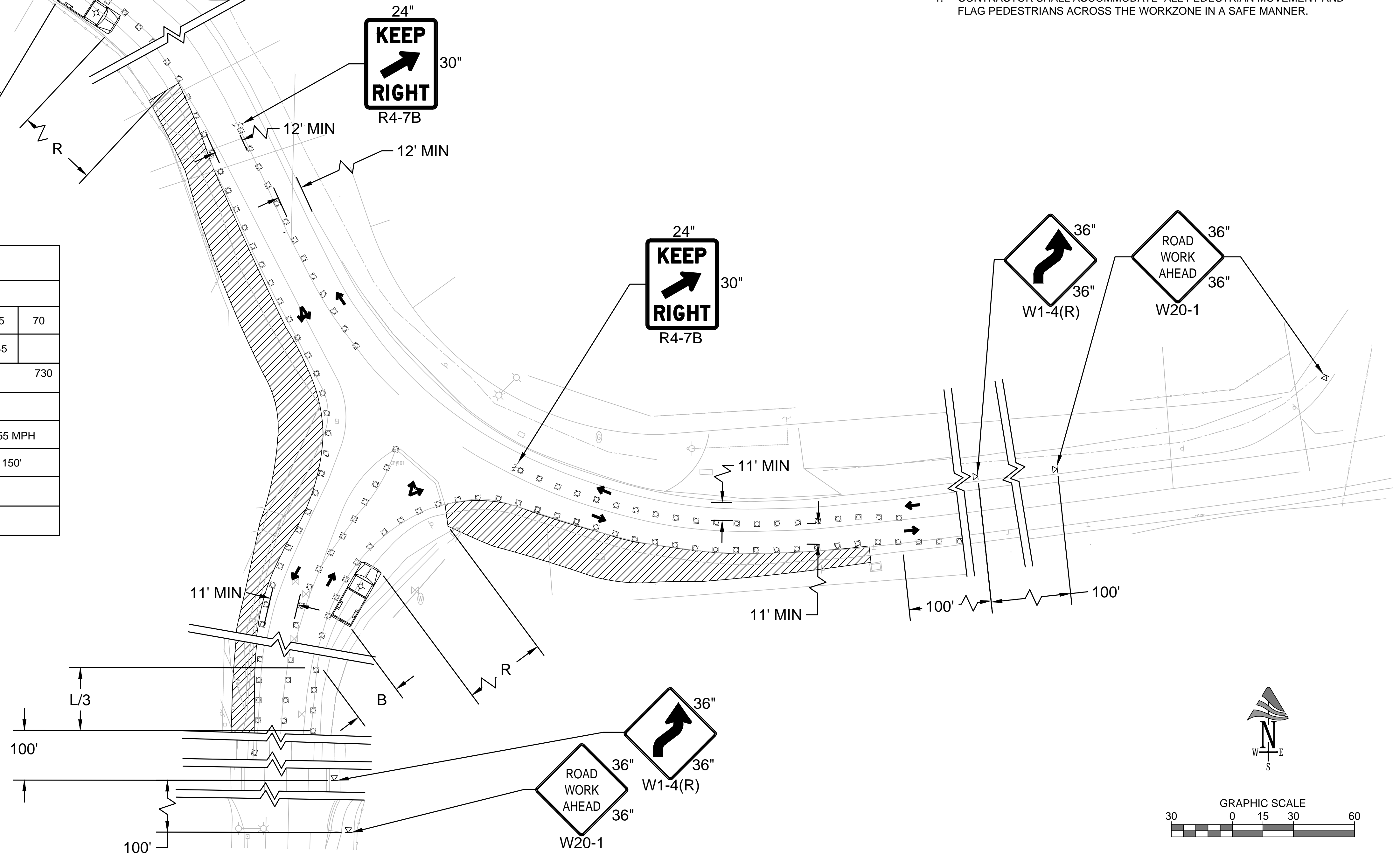
- CONTRACTOR SHALL ACCOMMODATE ALL PEDESTRIAN MOVEMENT AND FLAG PEDESTRIANS ACROSS THE WORKZONE IN A SAFE MANNER.



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	
TRANSPORTATION ATTENUATOR ROLL AHEAD DISTANCE = R										730
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.					HOST VEHICLE WEIGHT > 22,000 lbs.					
< 45 MPH	45-55 MPH	> 55 MPH		< 45 MPH	45-55 MPH	> 55 MPH				
100'	123'	172'		74'	100'	150'				
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

LEGEND

- ⊠ TEMPORARY SIGN
- ⚡ TYPE 3 BARRICADE
- ▣ CHANNELIZATION DEVICE
- ▨ WORK AREA
- ⊞ TRANSPORTABLE ATTENUATOR
- ⊞ PORTABLE SIGN MOUNT



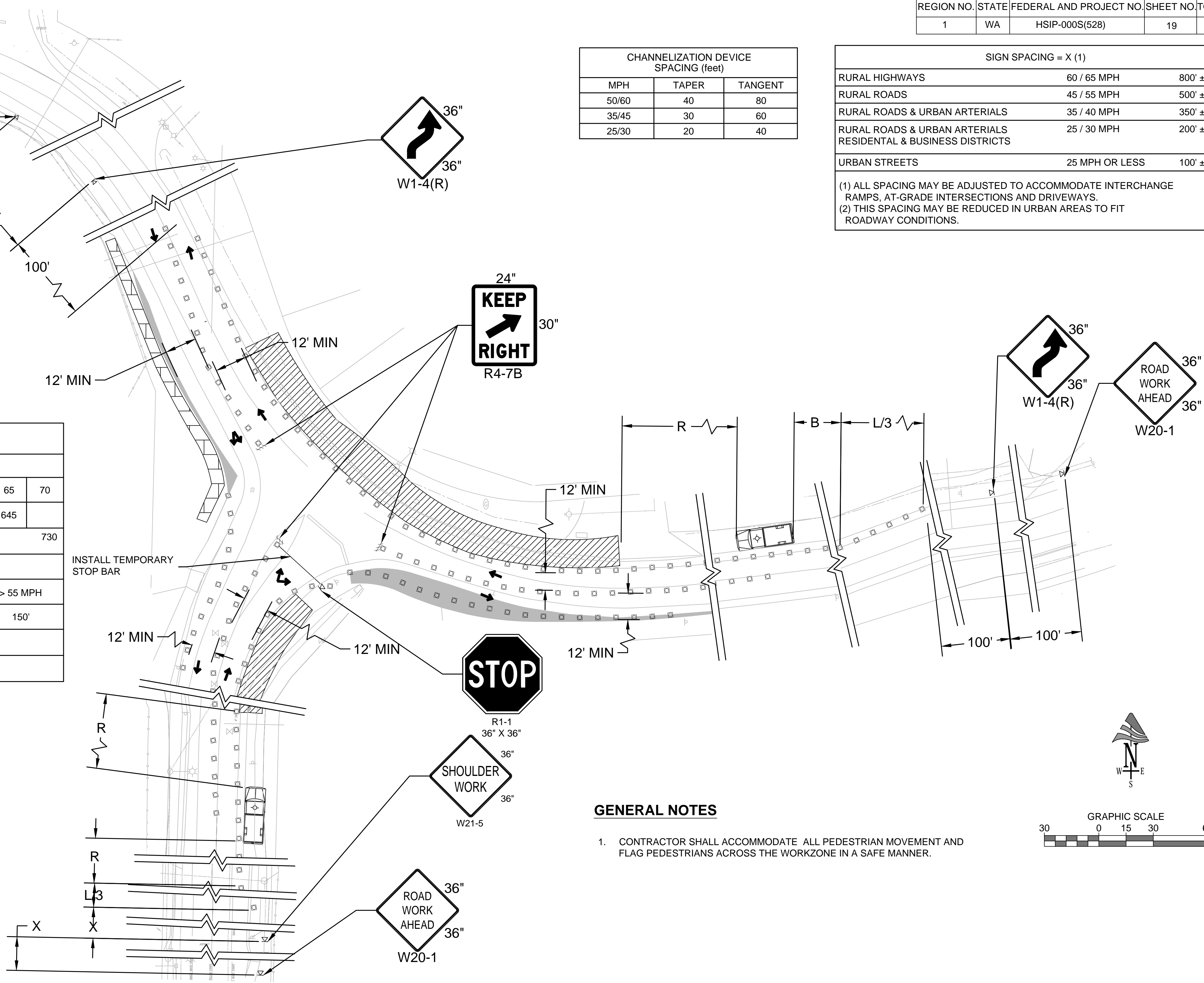
NO.	DATE	REVISION

MPH	TAPER	TANGENT
50/60	40	80
35/45	30	60
25/30	20	40

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

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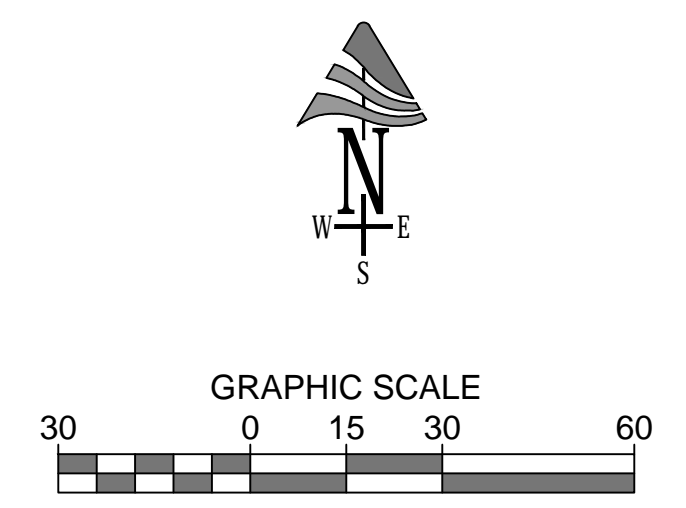
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	
TRANSPORTATION ATTENUATOR ROLL AHEAD DISTANCE = R							730			
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.			HOST VEHICLE WEIGHT > 22,000 lbs.							
< 45 MPH	45-55 MPH	> 55 MPH	< 45 MPH	45-55 MPH	> 55 MPH					
100'	123'	172'	74'	100'	150'					
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										



- LEGEND**
- ⊠ TEMPORARY SIGN
 - ⚡ TYPE 3 BARRICADE
 - ▣ CHANNELING DEVICE
 - ▨ WORK AREA
 - ▧ TRANSPORTABLE ATTENUATOR
 - ⊞ PORTABLE SIGN MOUNT
 - ▤ RETAINING WALL BUILT IN EARLIER PHASE
 - PAVEMENT BUILT IN EARLIER PHASE

GENERAL NOTES

- CONTRACTOR SHALL ACCOMMODATE ALL PEDESTRIAN MOVEMENT AND FLAG PEDESTRIANS ACROSS THE WORKZONE IN A SAFE MANNER.

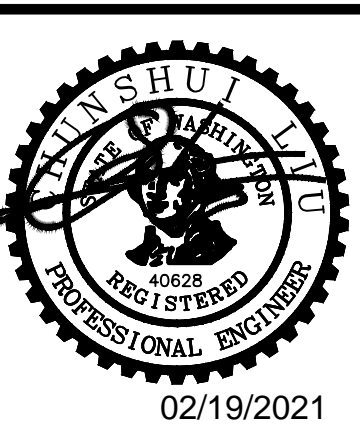


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DRAFTED: JLB
DESIGNED: AHC
REVIEWED: CLM
APPROVED: JXL



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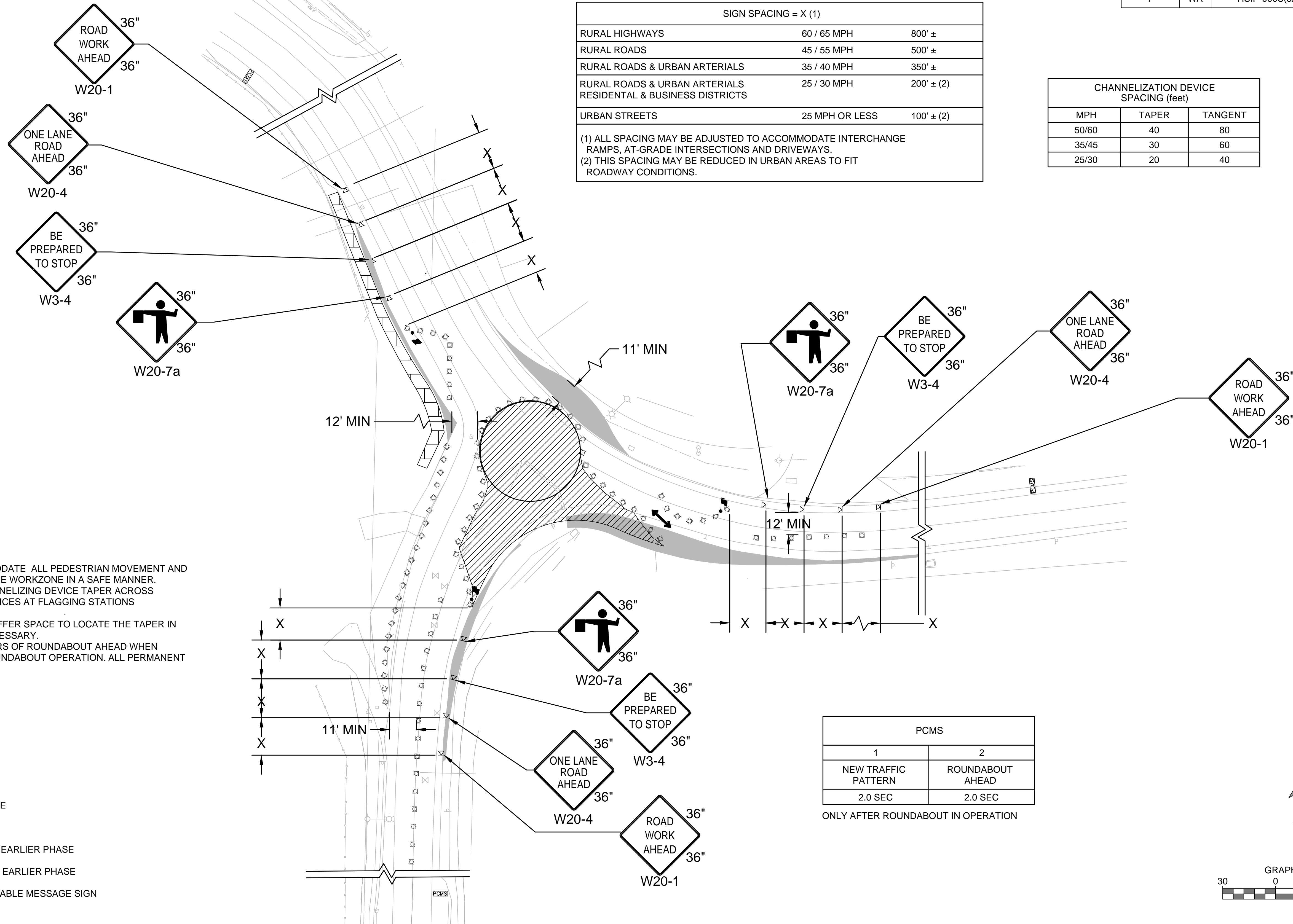
SW DASH POINT & 47TH AVE SW COMPACT ROUNDABOUT
TRAFFIC CONTROL PLAN
2-2 TRAFFIC SHIFT TO THE SOUTH

CITY PROJECT #: 36217
SHT. 19
OF 21

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
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(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

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



GENERAL NOTES

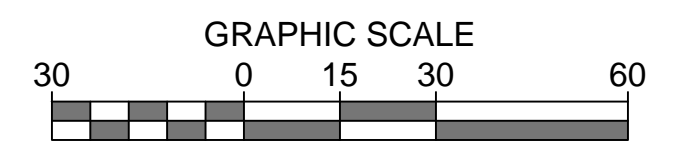
- CONTRACTOR SHALL ACCOMMODATE ALL PEDESTRIAN MOVEMENT AND FLAG PEDESTRIANS ACROSS THE WORKZONE IN A SAFE MANNER.
- RECOMMEND EXTENDING CHANNELIZING DEVICE TAPER ACROSS SHOULDER. CHANNELIZING DEVICES AT FLAGGING STATIONS RECOMMENDED.
- EXTEND THE LONGITUDINAL BUFFER SPACE TO LOCATE THE TAPER IN ADVANCED OF A CURVE, IF NECESSARY.
- INSTALL PCMS TO WARN DRIVERS OF ROUNDABOUT AHEAD WHEN INTERSECTION IS PUT INTO ROUNDABOUT OPERATION. ALL PERMANENT SIGNS SHALL BE INSTALLED.

LEGEND

- TEMPORARY SIGN
- FLAGGING STATION
- CHANNELING DEVICE
- WORK AREA
- RETAINING WALL IN EARLIER PHASE
- PAVEMENT BUILT IN EARLIER PHASE
- PORTABLE CHANGEABLE MESSAGE SIGN

PCMS	
1	2
NEW TRAFFIC PATTERN	ROUNDABOUT AHEAD
2.0 SEC	2.0 SEC

ONLY AFTER ROUNDABOUT IN OPERATION

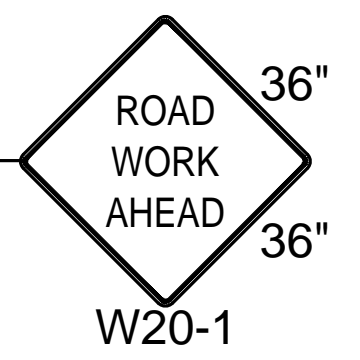
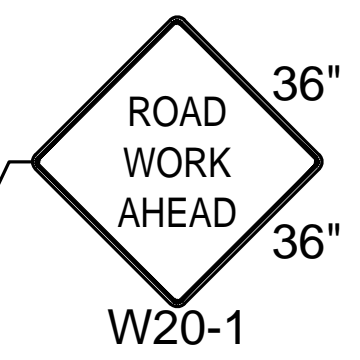
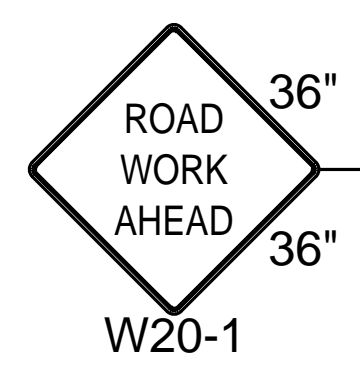


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CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/60	40	80
35/45	30	60
25/30	20	40

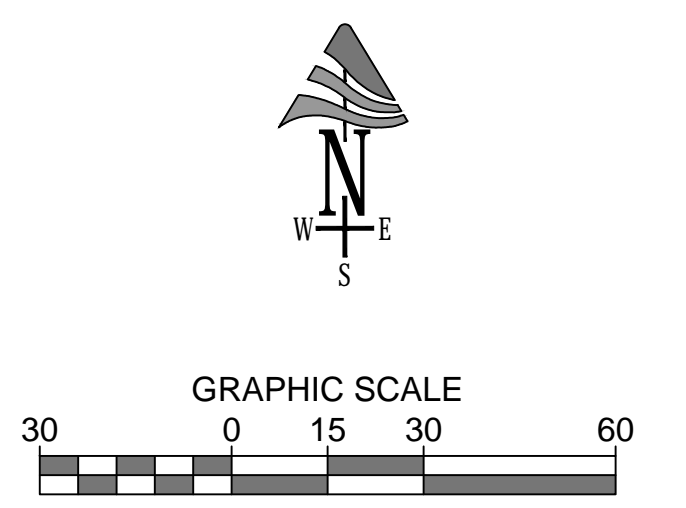
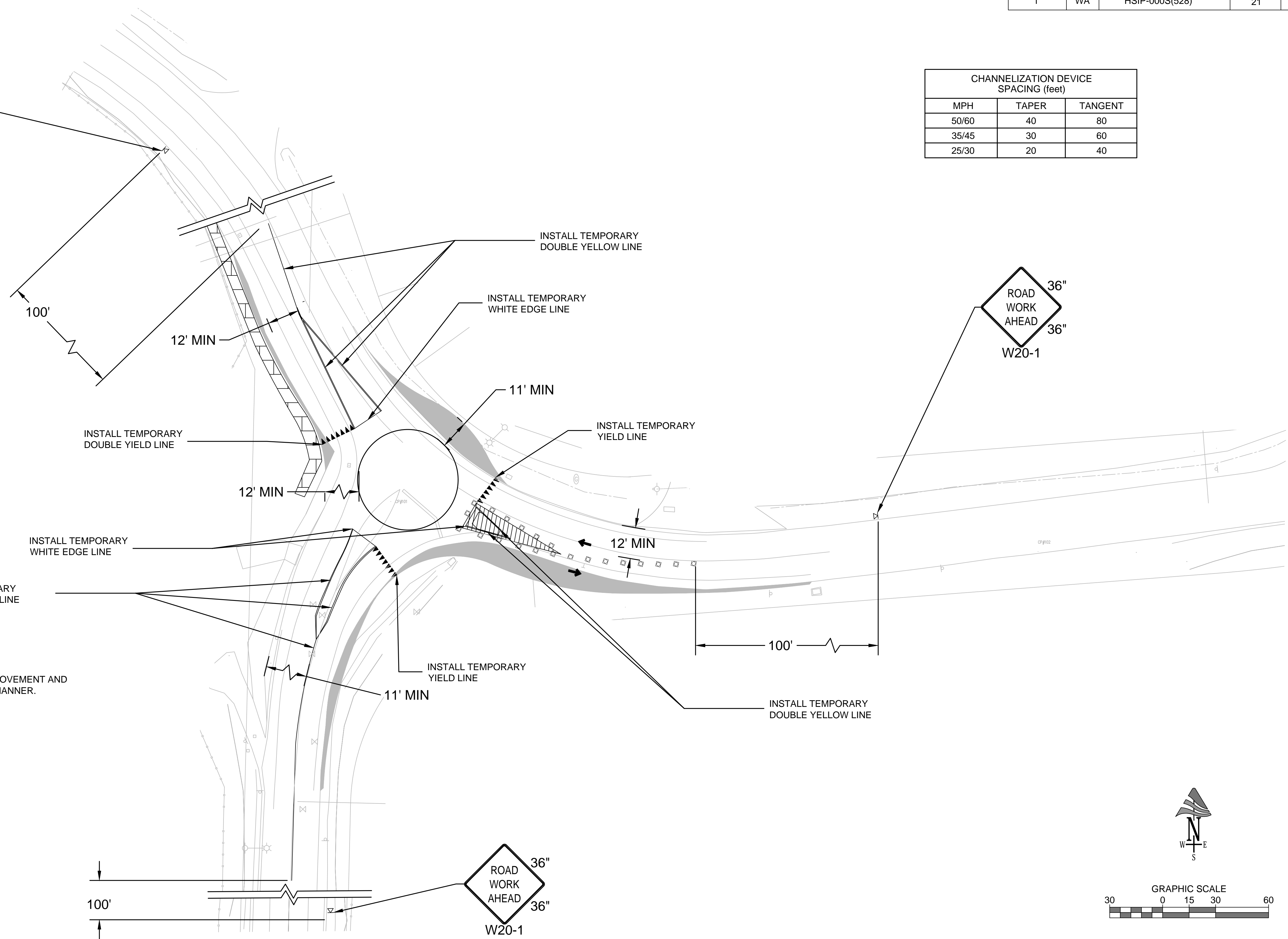


LEGEND

- ✕ TEMPORARY SIGN
- CHANNELING DEVICE
- ▨ WORK AREA
- ▤ RETAINING WALL BUILT IN EARLIER PHASE
- PAVEMENT BUILT IN EARLIER PHASE

GENERAL NOTES

1. CONTRACTOR SHALL ACCOMMODATE ALL PEDESTRIAN MOVEMENT AND FLAG PEDESTRIANS ACROSS THE WORKZONE IN A SAFE MANNER.
2. ALL PERMANENT SIGNS SHALL BE IN PLACE.

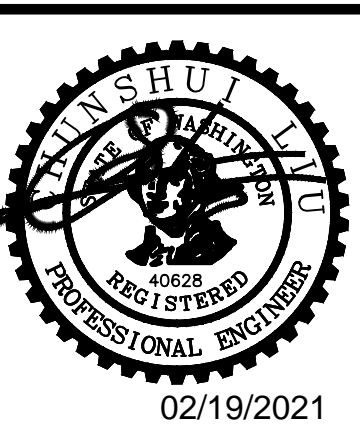


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SW DASH POINT & 47TH AVE SW COMPACT ROUNDABOUT
TRAFFIC CONTROL PLAN
2-4 SLIPT ISLAND

CITY PROJECT #: 36217
 SHT. 21
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