

T. 17 N., R. 23 E., S. 19, W.M.
VANTAGE CULVERT INSTALLATION
CONSTRUCTION DOCUMENTS
 VANTAGE, WASHINGTON



OWNER / APPLICANT

IHM INVESTMENTS LLC
 7501 212TH ST SUITE A4
 EDMONDS, WA 98026-7619
 PHONE: 206.940.1115
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CONSULTANTS

SCJ ALLIANCE
 25 N WENATCHEE AVE, SUITE 238
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SURVEYOR:
 NORTHWEST GEODIMENSIONS
 15 NORTH CHELAN AVE.
 WENATCHEE, WA 98801
 PHONE: 509.663.8660

SITE INFORMATION

PARCEL NUMBER: 930933
 ACRES: ±0.35

SITE ADDRESS:

320 MAIN STREET
 VANTAGE, WA 98926

UTILITIES

WATER:
 KITITITAS COUNTY WATER DISTRICT
 PHONE: 509.856.2041

POWER:
 KITITITAS COUNTY PUD
 509.933.7200

LEGAL DESCRIPTION:

LOTS 24, 25, 26, 27, 29, 30, 31, AND 32, BLOCK A, VANTAGE SUNLAND, A PORTION OF SECTION 19 AND 20 T17N-R23E, W.M. KITITITAS COUNTY, WASHINGTON, REPLAT OF "STOCKDALE'S FIRST ADDITION" TO VANTAGE, IN COUNTY OF KITITITAS, STATE OF WASHINGTON, AS PER PLAT THEREOF RECORDED IN BOOK 4 OF PLATS, PAGE 68, 69, AND 70, RECORDS OF SAID COUNTY.

BASIS OF BEARINGS:

WASHINGTON STATE PLANE SOUTH ZONE NAD 83(91)

DATUM:

VERTICAL DATUM IS NAVD 88

SHEET INDEX

Sheet Number	Sheet Title	DESCRIPTION
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07	LS-01	SITE RESTORATION PLAN
08	TC-01	TRAFFIC CONTROL PLAN

A PORTION OF SEC 19, T 17 N., R23 E., W.M.
 VANTAGE, WASHINGTON



Sep 30, 2021 1:33:59pm - User: scj@scjalliance.com - User: scj@scjalliance.com
 PROJECTS\2020\IHM INVESTMENTS LLC\21-000403 VANTAGE GRAND HOTEL CULVERT DESIGN\CAD\21-000403 CV-01.DWG

REVISIONS	DATE	BY	DESIGNED BY:	ISSUE DATE:
			S. HOWSDEN	OCTOBER, 2021
			DRAWN BY:	JOB No.:
			S. HOWSDEN	21-000403
			CHECKED BY:	DRAWING FILE No.:
			D. IRELAND	21-000403 CV-01

ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED



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PROJECT NAME:

VANTAGE CULVERT INSTALLATION

COVER SHEET

DRAWING No.: CV-01
 SHEET No.: 01 OF 08

ABBREVIATIONS

&	AND	L	LENGTH
∠	ANGLE	LB(S)	POUND(S)
±	APPROXIMATELY	LF	LINEAR FEET
⊙	AT	LP	LOW POINT ELEVATION
⊖	CENTERLINE	LT	LEFT
'	DEGREE	MAX	MAXIMUM
=	EQUALS	MFR	MANUFACTURER
>	FOOT	MH	MANHOLE
>	GREATER THAN	MIN	MINIMUM, MINUTE
"	INCH	MISC	MISCELLANEOUS
#	NUMBER	MON	MONUMENT IN CASE
%	PERCENT	N	NORTH, NORTHING
AC	ASPHALTIC CONCRETE	N/A	NOT APPLICABLE
ADD'L	ADDITIONAL	NE	NORTHEAST
ADJT	ADJACENT	NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
AF	ABOVE FINISH FLOOR	NIC	NOT IN CONTRACT
AP	ANGLE POINT	NO, NO	NUMBER
APPROX	APPROXIMATE	NTS	NOT TO SCALE
ARCH	ARCHITECT	NW	NORTHWEST
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	OC, OC	ON CENTER
ATB	ASPHALT TREATED BASE COURSE	OD	OUTSIDE DIAMETER
AVE	AVENUE	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
BCR	BEGIN CURB RETURN	P	POWER, POWER VAULT
BFV	BUTTERFLY VALVE	PC	POINT OF CURVATURE
BGS	BELOW GROUND SURFACE	PCC	POINT OF COMPOUND CURVE
BLK	BLOCK(S)		OR PORTLAND CEMENT CONCRETE
BLDG	BUILDING	PED	PEDESTAL
BM	BENCHMARK	PI	POINT OF INTERSECTION
BVC	BEGIN VERTICAL CURB	R	PROPERTY LINE
C	CONDUIT	PDC	POINT OF CONNECTION
CB	CATCH BASIN	PP	POWER POLE
CF	CUBIC FEET	PRC	POINT OF REVERSE CURVATURE
CIRC	CIRCUIT, CIRCULAR(ATION)	PROP	PROPERTY
CIP	CAST-IN-PLACE	PSI	POUNDS PER SQUARE INCH
CIP MON	CAST-IN-PLACE MONUMENT	PT	POINT OF TANGENCY
CJ	CENTER JOINT	PVC	POINT OF VERTICAL CURVE
CL	CENTER LINE	PVI	POINT OF VERTICAL INTERSECTION
CL	CROWNLINE	PVT	POINT OF VERTICAL TANGENT
CLR	CLEAR	PVMT	PAVEMENT
CO	CLEANOUT	PWR	POWER
COMM	COMMUNICATION	QTY	QUANTITY
COMPT	COMPACTED	R	RADIUS
CONC	CONCRETE	RD	ROAD, ROADWAY
CONST	CONSTRUCT	REF	REFERENCE
CONT	CONTINUE(ED, OUS, ATION)	REINF	REINFORCE(ED, ING, MENT)
COORD	COORDINATE	REQ'D	REQUIRED
CSSC	CRUSHED SURFACING BASE COURSE	REV	REVISION
CSTC	CRUSHED SURFACING TOP COURSE	RIM	STRUCTURE RIM ELEVATION
CULV	CULVERT	RT	RIGHT TURN
CU YD	CUBIC YARD	R/W, ROW	RIGHT OF WAY
D/W	DRIVEWAY	S	SOUTH OR SLOPE
DEF	DEFLECTION	SCHED	SCHEDULE
DEG	DEGREE	SD, SDMH	STORM DRAIN, STORM DRAIN MANHOLE
DEMO	DEMOLISH/DEMOLITION	SE	SOUTHEAST
DIA	DIAMETER	SECT	SECTION(S)
DIM	DIMENSION(S)	SHT	SHEET
DIP	DUCTILE IRON PIPE	SP	SPRINKLER
DR	DRIVE	SQ	SQUARE
DWG(S)	DRAWING(S)	SQ FT	SQUARE FEET
E	EAST OR ELECTRICAL	SQ IN	SQUARE INCH
EA	EACH	SS	SANITARY SEWER
ECR	END CURB RETURN	SSMH	SANITARY SEWER MANHOLE
EHH	ELECTRICAL HANDHOLE	ST	STREET
EL, ELEV	ELEVATION	STA	STATION
ELEC	ELECTRIC(AL)	STD	STANDARD
ENGR	ENGINEER	STRUCT	STRUCTURE(ED, AL)
EOP	EDGE OF PAVEMENT	SW	SOUTHWEST
EQ	EQUAL(LY)	SYS	SYSTEM
EQUIP	EQUIPMENT	T	TELEPHONE OR TELEPHONE VAULT
ESMT	EASEMENT	TBD	TO BE DETERMINED
EVC	END VERTICAL CURVE	TBM	TEMPORARY BENCH MARK
EX, EXIST	EXISTING EXP EXPANSION	TC	TOP OF CURB ELEVATION
EXP	EXPANSION	TELE	TELEPHONE
FDC	FIRE DEPARTMENT CONNECTION	TEMP	TEMPORARY
FDN	FOUNDATION	TOW	TOP OF WALL ELEVATION
FF	FINISH FLOOR	TP, T/P	TOP OF PIPE
FG	FINISH GRADE ELEVATION	TYP	TYPICAL
FH	FIRE HYDRANT	UDG	UNDERGROUND
FIN	FINISH(ED)	VAP	VERTICAL ANGLE POINT
FL	FIRE LINE/FLANGE	VC	VERTICAL CURVE
FT	FOOT/FEET	VERT	VERTICAL
G	GAS	VOL	VOLUME
GALV	GALVANIZED	W	WEST, WIDTH, WDE OR WATER
GRND	GROUND	W/	WITH
GV	GATE VALVE	W/O	WITHOUT
HH	HANDHOLE	WM	WATER MAIN OR WILLAMETTE MERIDIAN
HORIZ	HORIZONTAL	WV	WATER VALVE
HT	HEIGHT	XFMR	TRANSFORMER
IE	INVERT ELEVATION		
IN	INCH		
JB, J-BOX	JUNCTION BOX		
JT	JOINT TRENCH		
KV	KILOVOLTS		
KW	KILOWATT		
KWH	KILOWATT HOURS		

RECOMMENDED CONSTRUCTION SEQUENCE
(INFORMATIONAL ONLY)

- PRE-CONSTRUCTION MEETING.
- FLAG OR FENCE CLEARING LIMITS.
- INSTALL TREE PROTECTION FENCING, PRIOR TO OR IN CONJUNCTION WITH SILT FENCING. (IF NECESSARY)
- POST SIGN WITH NAME AND PHONE NUMBER OF EROSION & SEDIMENT CONTROL SUPERVISOR.
- INSTALL CATCH BASIN PROTECTION IF REQUIRED.
- INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.)
- CONSTRUCT SEDIMENT PONDS AND TRAPS.
- CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
- MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF OLYMPIA AND MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE SURFACE WATER CONTROLS AND EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY OF OLYMPIA AND SEDIMENT CONTROL STANDARDS.
- UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS SHALL BE STABILIZED AND, IF APPROPRIATE, BEST MANAGEMENT PRACTICES REMOVED.

Sep 30, 2021 11:34:03am - User: scj@scjalliance.com
 N:\PROJECTS\2570 IHM INVESTMENTS LLC\21-000403 VANTAGE GRAND HOTEL CULVERT DESIGN\21-000403 GN-01.DWG

REVISIONS	DATE	BY

DESIGNED BY: S. HOWSDEN	ISSUE DATE: OCTOBER, 2021
DRAWN BY: S. HOWSDEN	JOB No.: 21-000403
CHECKED BY: D. IRELAND	DRAWING FILE No.: 21-000403 GN-01

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PROJECT NAME:

DRAWING No.:
GN-01

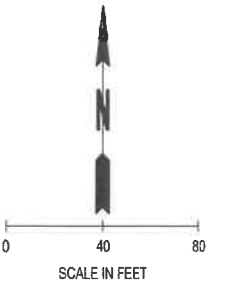
SHEET No.:
02 of 08

GENERAL NOTES

T. 17 N., R. 23 E., S. 19, W.M.

LEGEND

- PROPERTY LINE
- WATTLE INSTALLATION ON SLOPE (SEE DETAIL ON SHEET EC-02)
- STORM DRAIN INLET PROTECTION (SEE DETAIL ON SHEET EC-02)
- STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET EC-02)
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- CONTOUR MAJOR
- CONTOUR MINOR
- LIMITS OF CLEARING AND GRUBBING
- REMOVE EXISTING 36 IN. DIAM. CEMENT CONC. STORM PIPE



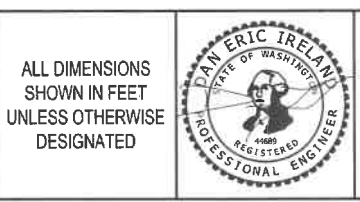
- x EROSION CONTROL / DEMOLITION NOTES:**
1. INSTALL WATTLE INSTALLATION ON SLOPE SEE WSDOT STD PLAN I-30.30.
 2. INLET PROTECTION SEE WSDOT STD PLAN I-40.20.
 3. STABILIZED CONSTRUCTION ENTRANCE SEE WSDOT STD PLAN I-80.10.
 4. RELOCATE EXISTING 25 MPH SPEED LIMIT SIGN AND POST.



Sep 30, 2021 1:34:13pm - User: sara.h.bowden
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			S. HOWSDEN	OCTOBER, 2021
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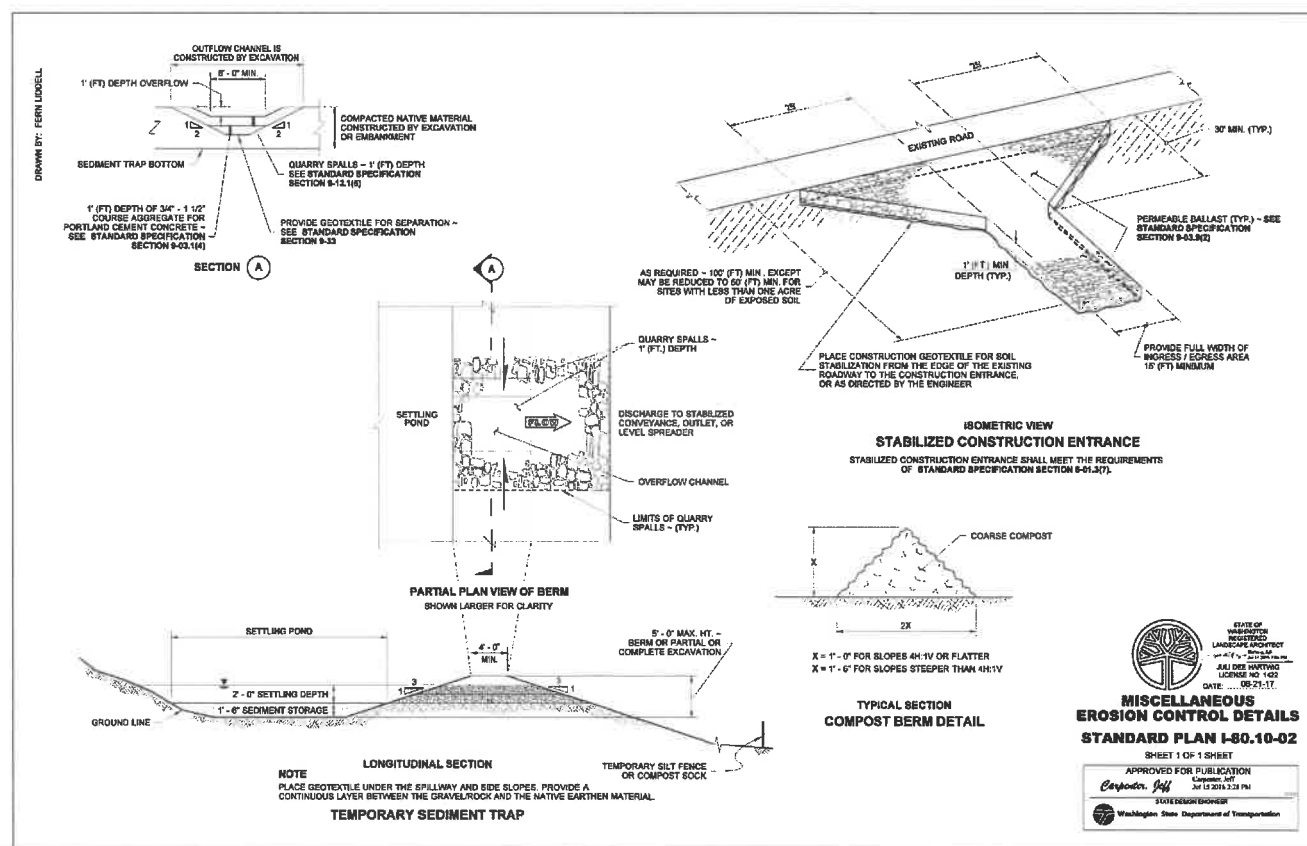
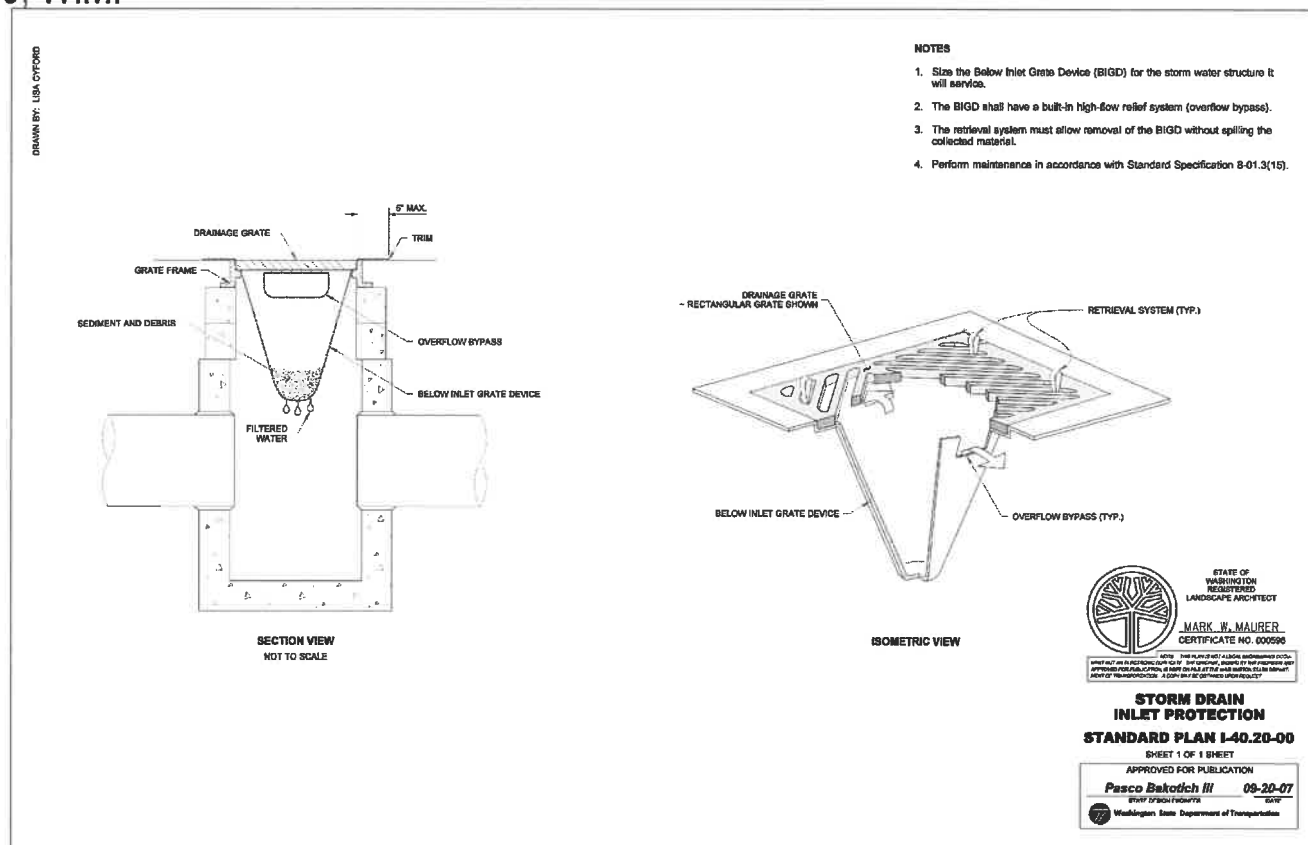
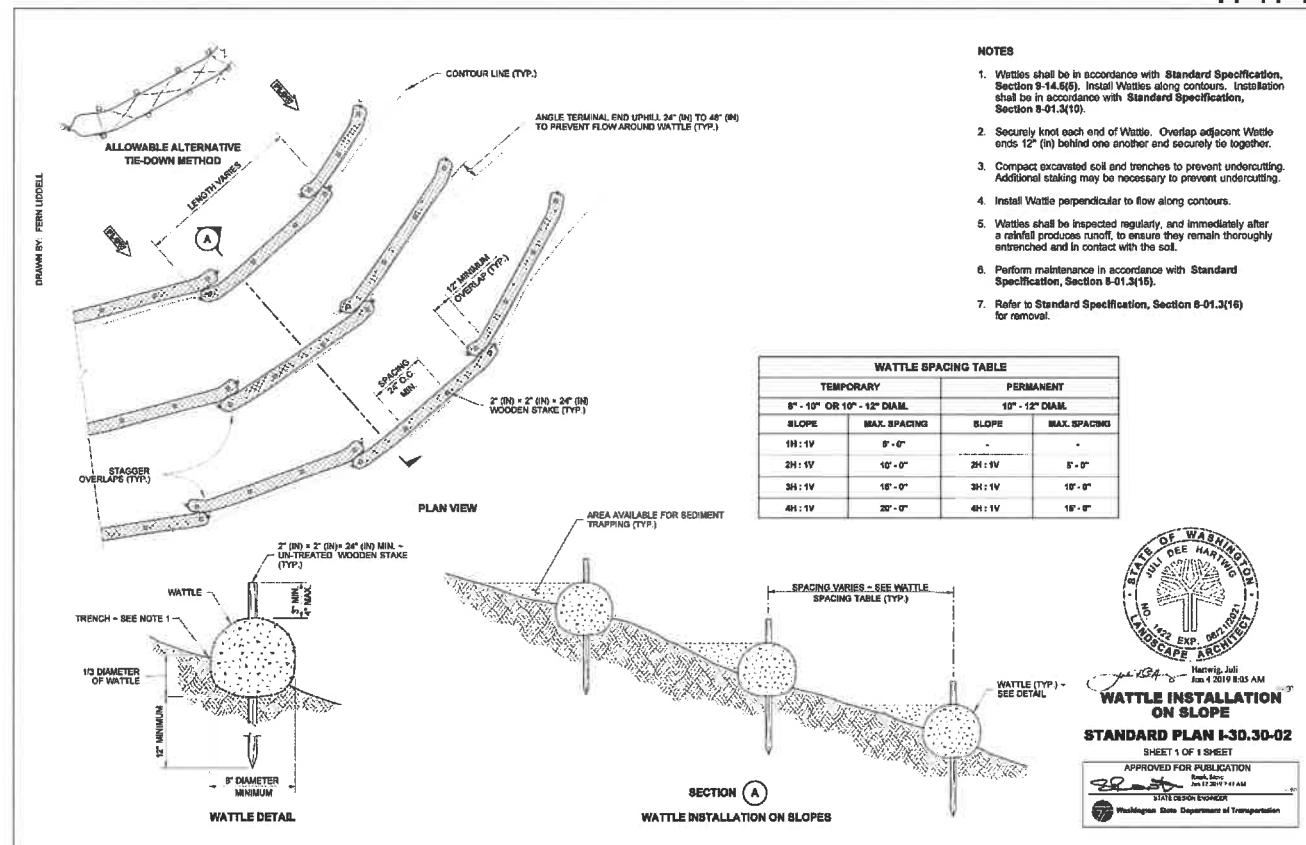
PROJECT NAME:

DRAWING No.: **EC-01**

SHEET No.: **03 of 08**

VANTAGE CULVERT INSTALLATION

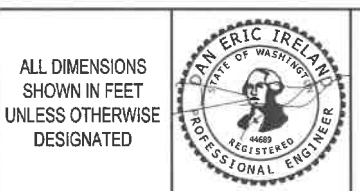
REMOVAL AND TESC PLAN



Sep 30, 2021 11:34:16am - User: sara.h.bowden
 R:\PROJECTS\2020\21\INVESTMENTS\CLC\21-000403 VANTAGE GRAND HOTEL CULVERT DESIGN\CADD\21-000403 EC-02.DWG

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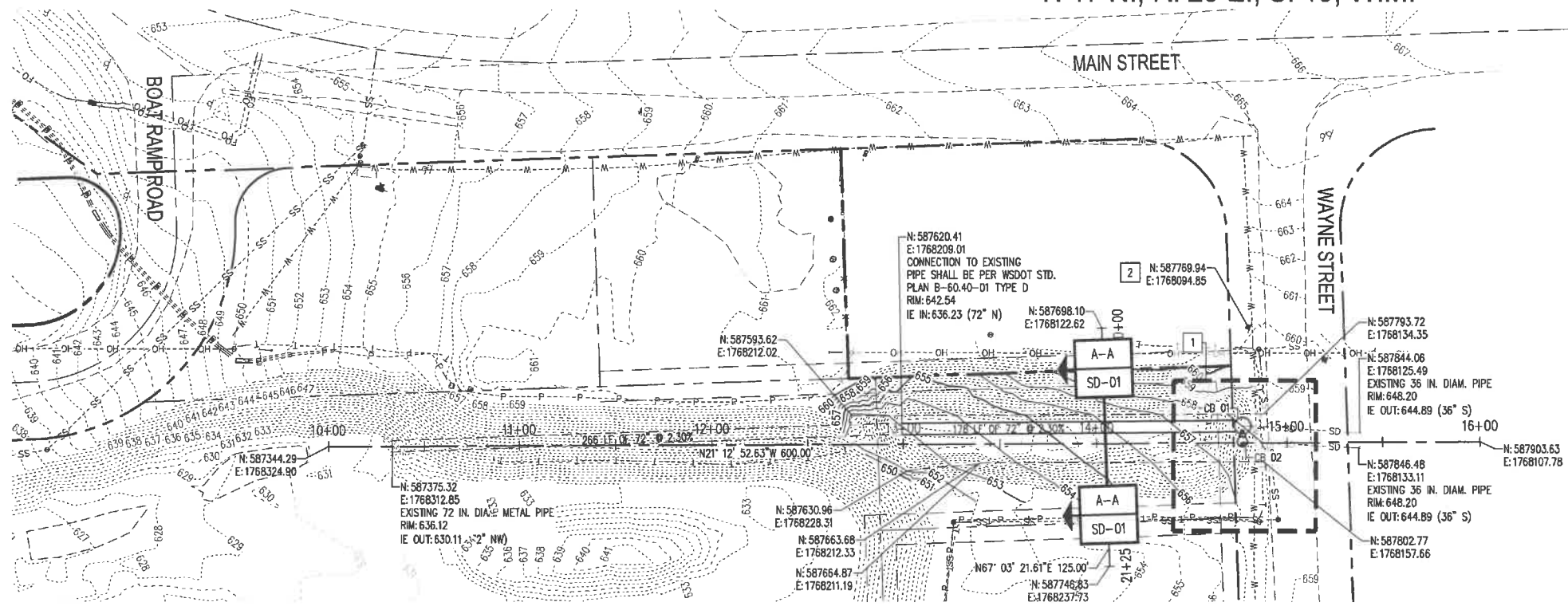
PROJECT NAME:

VANTAGE CULVERT INSTALLATION

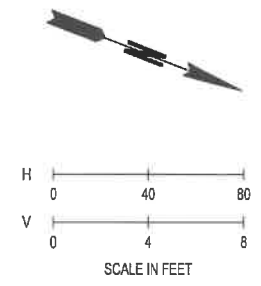
DRAWING No.: EC-02

SHEET No.: 04 OF 08

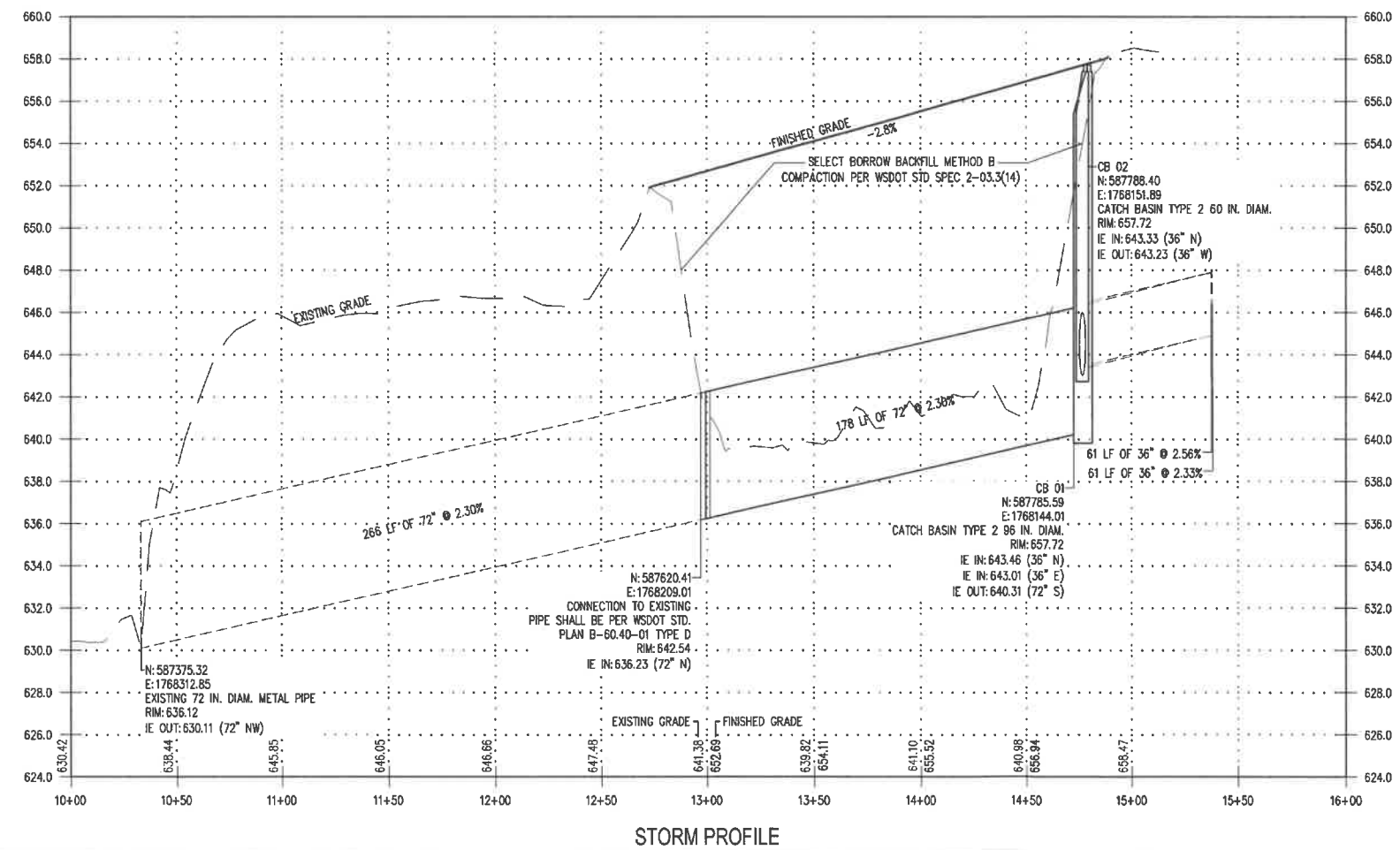
T. 17 N., R. 23 E., S. 19, W.M.



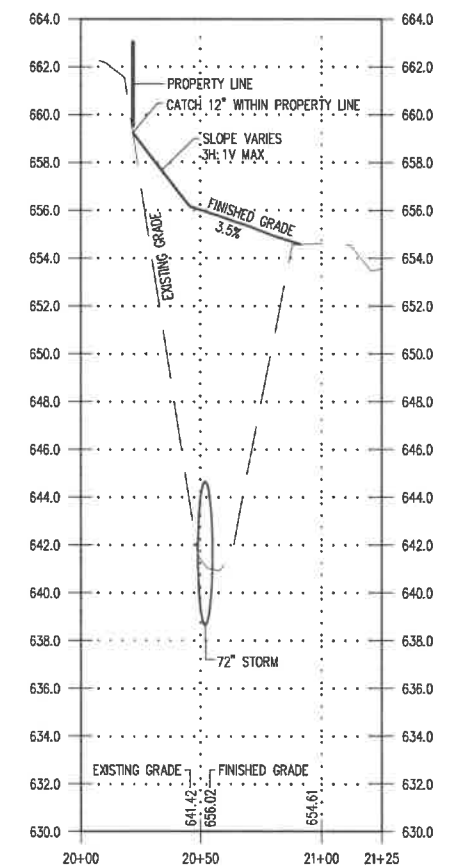
- LEGEND**
- xx EXISTING MAJOR CONTOUR
 - xx EXISTING MINOR CONTOUR
 - xx MAJOR CONTOUR
 - xx MINOR CONTOUR
 - - - GRADE BREAK
 - - - UTILITY EASEMENT (WATER, SEWER, STORM)
 - SD SCHEDULE A STORM SEWER PIPE 36 IN. DIAM.
 - PLAIN ST. CULV. PIPE 0.138 IN. TH. 72 IN. DIAM.
 - CATCH BASIN TYPE 2 96 IN. DIAM.
 - CATCH BASIN TYPE 2 60 IN. DIAM.
 - RELOCATED 25 MPH SPEED LIMIT SIGN



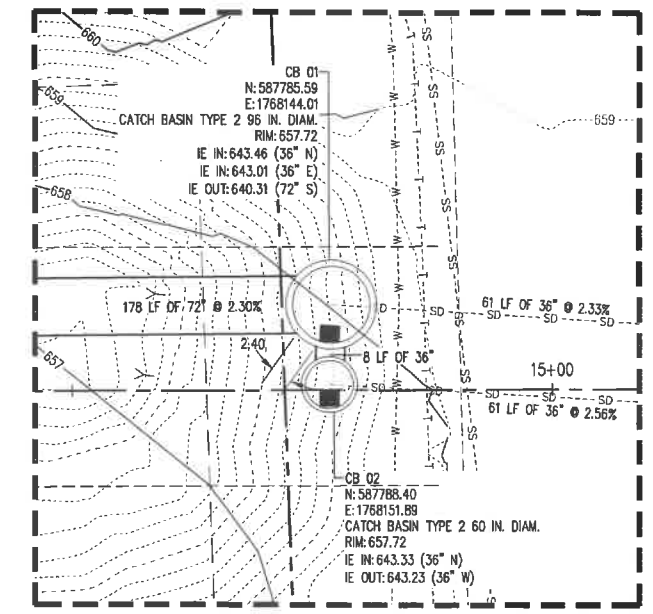
- CONSTRUCTION NOTES:**
1. CATCH BASIN ENLARGEMENT: SEE SD-01
 2. INSTALL EXISTING 25 MPH SIGN TO MOUNT ON A NEW TIMBER SIGN SUPPORT PER WSDOT STD. PLAN G-22.10-04



STORM PROFILE



STORM PROFILE CROSS SECTION A-A



CATCH BASIN ENLARGEMENT
1" = 10'

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Δ	REVISIONS	DATE	BY

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DRAWN BY: S. HOWSDEN	JOB No.: 21-000403
CHECKED BY: D. IRELAND	DRAWING FILE No.: 21-000403 SD-01

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PROJECT NAME:	VANTAGE CULVERT INSTALLATION
DRAWING No.:	SD-01
SHEET No.:	05 OF 08

GRADING AND DRAINAGE PLAN	
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DRAWN BY: FERN LOCELL

NOTES

- No steps are required when height is 4' or less.
- The bottom of the precast catch basin may be sloped to facilitate cleaning.
- The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
- Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.

CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER					
	CONCRETE	ALL METAL	CPSSP 1) PP (4)	SOLID WALL PVC (2)	PROFILE WALL PVC (3)	
48"	24"	30"	24"	30"	30"	
54"	30"	36"	30"	36"	36"	
60"	36"	42"	36"	42"	42"	
72"	42"	54"	42"	48"	48"	
84"	54"	60"	54"	48"	48"	
96"	60"	72"	60"	48"	48"	
120"	66"	84"	60"	48"	48"	
144"	78"	96"	60"	48"	48"	

PIPE ALLOWANCES

① Corrugated Polyethylene Storm Sewer Pipe (See Standard Specification Section 9-05.20)
 ② (See Standard Specification Section 9-05.12(1))
 ③ (See Standard Specification Section 9-05.12(2))
 ④ Polypropylene Pipe (See Standard Specification Section 9-05.24)

CATCH BASIN TYPE 2
 STANDARD PLAN B-10.20-02
 SHEET 1 OF 1 SHEET

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 J. Heilman, Julie
 PROFESSIONAL ENGINEER
 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

COUPLING BAND DIMENSION TABLE
 (ALL DIMENSIONS ARE IN INCHES)

BAND TYPE	CORRUGATION FITCH x DEPTH	PIPE DIAM.	MIN W	GASKET TYPE
STEEL	2 2/3 x 1/2 OR 3 x 1	12 - 84	12	SLEEVE
	REFORMED TO 2 2/3 x 1/2			
	3 x 1	60 - 144	24	SLEEVE
	REFORMED TO 2 2/3 x 1/2			
ALUMINUM	2 2/3 x 1/2 OR 3 x 1	12 - 84	10 1/2	SLEEVE OR O-RING
	REFORMED TO 2 2/3 x 1/2			
	2 2/3 x 1/2	12 - 48	12	SLEEVE
	3 x 1	54 - 84	24	SLEEVE
	* 3 x 1	64 - 144	24	SLEEVE
ALUMINUM	2 2/3 x 1/2 OR 3 x 1	12 - 72	12	SLEEVE
	REFORMED TO 2 2/3 x 1/2			
	2 2/3 x 1/2	12 - 48	10 1/2	SLEEVE OR O-RING
	3 x 1	36 - 60	12	SLEEVE
	* 3 x 1	54 - 84	24	SLEEVE
	* 3 x 1	54 - 96	24	SLEEVE

* PIPE ARCH ONLY

COUPLING BANDS FOR CORRUGATED METAL PIPE
 STANDARD PLAN B-60.40-01
 SHEET 1 OF 1 SHEET

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 J. Heilman, Julie
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NOTES

- Notch is only required with multiple post installations.
- 6x10, 8x10, and 8x12 Timber Sign Posts cannot be made breakaway and do not have holes or notches. These posts shall not be installed within the Design Clear Zone. They may be installed behind traffic barrier.
- For "X", "Y", "H1", "H2", "H3", and "H4", refer to the Sign Specification Sheet in the Contract.
- For 6x6 posts and larger, 7" (ft) minimum spacing is required between posts.
- All materials shall meet the requirements of Standard Specification Section 9-25.

POST SIZE (NOM.)	DEPTH	HOLE DIAMETER	NOTCH DEPTH (SEE NOTE 1)
4x4	3'-0"	NOT REQ'D	NOT REQ'D
4x6	4'-0"	1 1/2"	1 1/2"
6x6	4'-0"	2"	2"
6x6	5'-0"	2"	3"
8x10	6'-0"	SEE NOTE 2	SEE NOTE 2
8x10	6'-0"	SEE NOTE 2	SEE NOTE 2
8x12	7'-0"	SEE NOTE 2	SEE NOTE 2

TIMBER SIGN SUPPORT
 STANDARD PLAN G-22.10-04
 SHEET 1 OF 3 SHEETS

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 PROFESSIONAL ENGINEER
 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

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MAJOR AND SECONDARY SIGN INSTALLATION

SIGN PANEL ATTACHMENT DETAIL

CONCRETE FOUNDATION SLEEVE DETAIL
 TO BE USED WHEN PLACING TIMBER POST IN A PAVED AREA

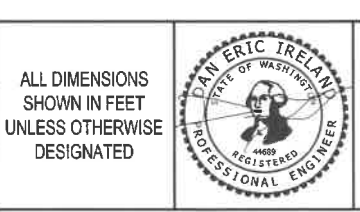
TIMBER SIGN SUPPORT
 STANDARD PLAN G-22.10-04
 SHEET 3 OF 3 SHEETS

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			S. HOWSDEN	OCTOBER, 2021
			S. HOWSDEN	JOB No.: 21-000403
			D. IRELAND	DRAWING FILE No.: 21-000403 SD-02

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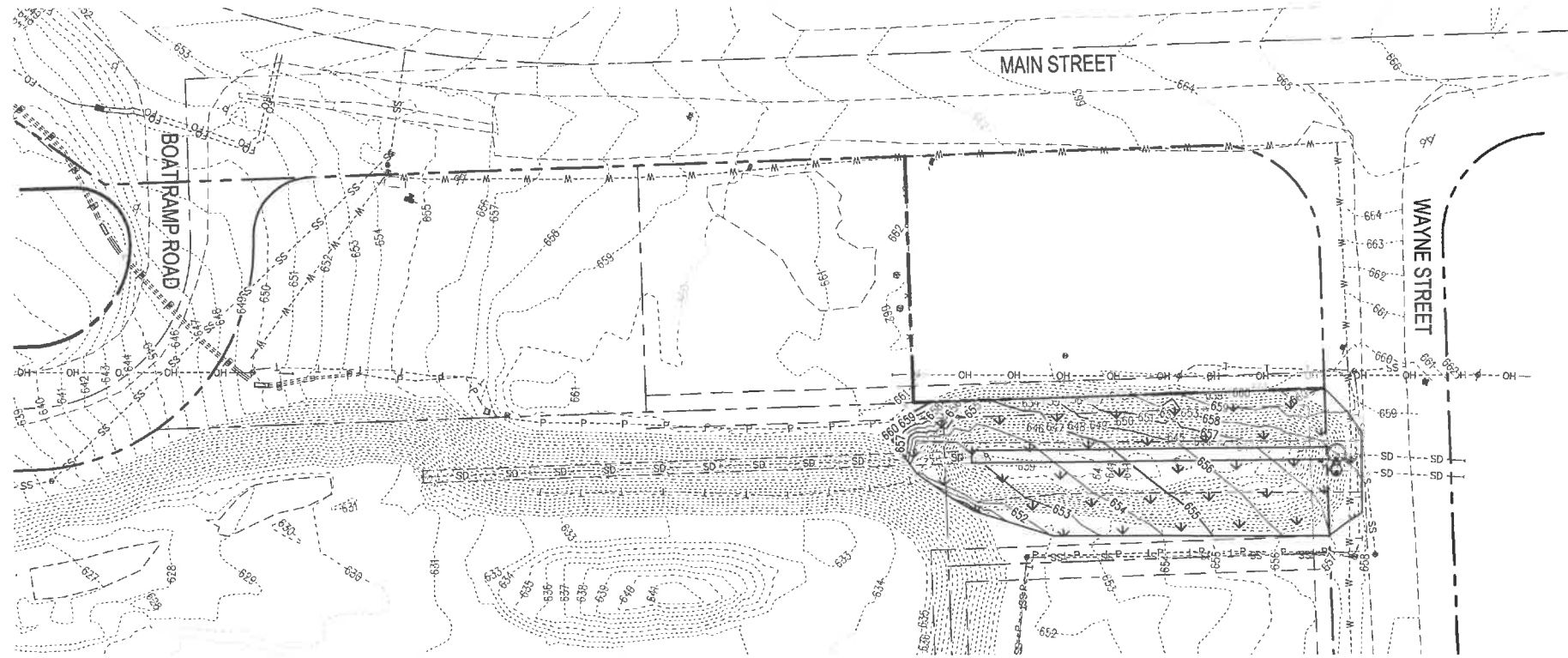
VANTAGE CULVERT INSTALLATION

DRAWING No.: SD-02

SHEET No.: 06 OF 08

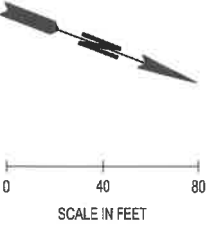
GRADING AND DRAINAGE DETAILS

T. 17 N., R. 23 E., S. 19, W.M.



LEGEND

- xx EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- MAJOR CONTOUR
- MINOR CONTOUR
- ▾ NATIVE SEED MIX FOR RESTORATION



NATIVE SEED MIX NOTES:

TURF GRASS (HYDROMULCH)
 HIGH DESERT SEED MIX
 BLUEBUNCH WHEATGRASS (42%)
 IDAHO FESCUE (22%)
 BOTTLEBRUSH SQUIRREL TAIL (16%)
 SANDBERG'S BLUEGRASS (12%)
 PRAIRIE JUNEGRASS (8%)
 FROM BFI SEEDS 509.765.6348 OR APPROVED

Sep 30, 2021 1:34:50pm - User: sarah.howdsden
 N:\PROJECTS\570 HM INVESTMENTS LLC\21-000403 VANTAGE GRAND HOTEL CULVERT DESIGN\CADD\21-000403 LS-01.DWG

REVISIONS	DATE	BY

DESIGNED BY: S. HOWSDEN	ISSUE DATE: OCTOBER, 2021
DRAWN BY: S. HOWSDEN	JOB No.: 21-000403
CHECKED BY: D. IRELAND	DRAWING FILE No.: 21-000403 LS-01

ALL DIMENSIONS SHOWN IN FEET UNLESS OTHERWISE DESIGNATED




SCJ ALLIANCE
 CONSULTING SERVICES
 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516
 P: 360.352.1465 F: 360.352.1509
 SCJALLIANCE.COM

PROJECT NAME:

VANTAGE CULVERT INSTALLATION
 SITE RESTORATION PLAN

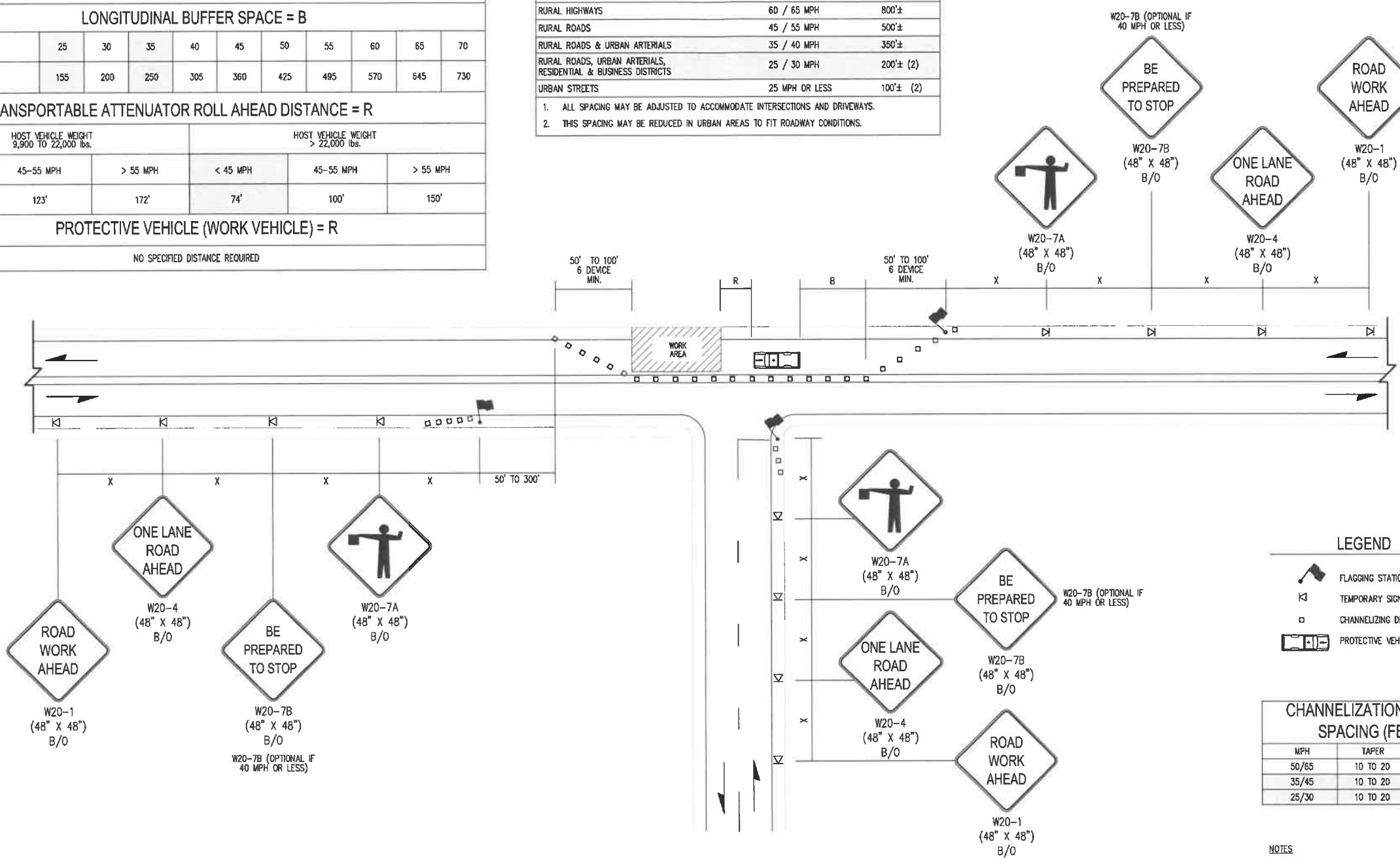
DRAWING No.:
LS-01
 SHEET No.:
07 of 08

T. 17 N., R. 23 E., S. 19, W.M.

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 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										

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

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



LEGEND

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

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

- NOTES**
- ALL SIGNS ARE BLACK ON ORANGE.
 - EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
 - NIGHT WORK REQUIRES ADDITIONAL LIGHTING AT FLAGGING STATIONS. SEE THE STANDARDS SPECIFICATIONS FOR ADDITIONAL DETAILS.
 - SEE PROVISIONS FOR WORK HOUR RESTRICTIONS.

ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS
NOT TO SCALE

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REVISIONS	DATE	BY	DESIGNED BY:	ISSUE DATE:
			S. HOWSDEN	OCTOBER, 2021
			DRAWN BY:	JOB No.:
			S. HOWSDEN	21-000403
			CHECKED BY:	DRAWING FILE No.:
			D. IRELAND	21-000403 TC-01

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DRAWING No.:	TC-01
SHEET No.:	08 of 08