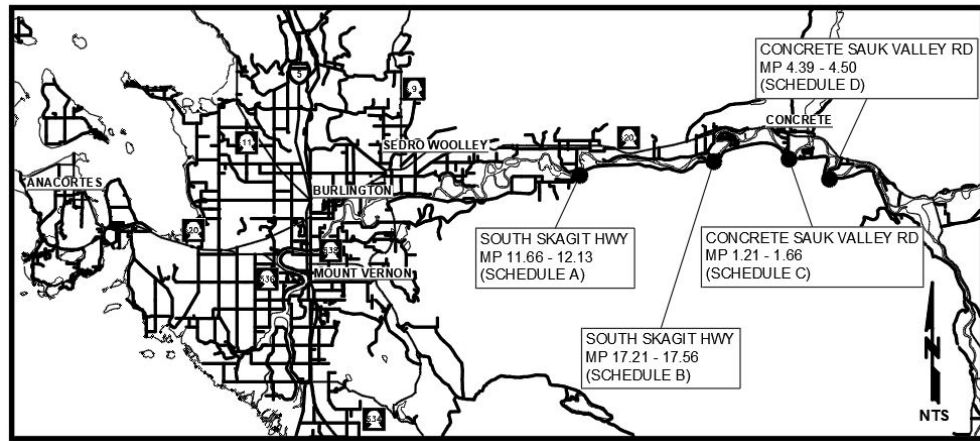


INSTALL/UPGRADE GUARDRAIL WITH REFLECTORS

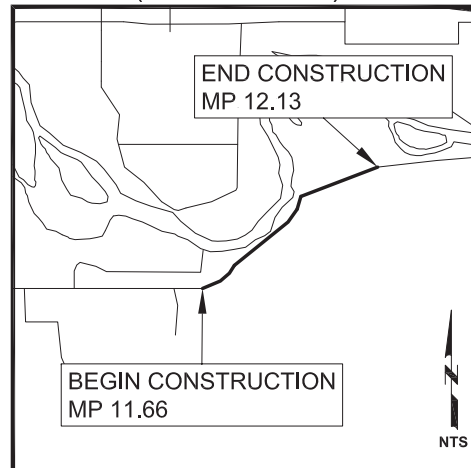
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FEDERAL AID NO. HSIP-000S(578)

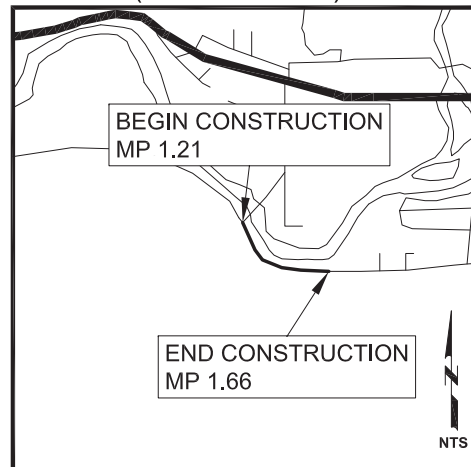
VICINITY MAP



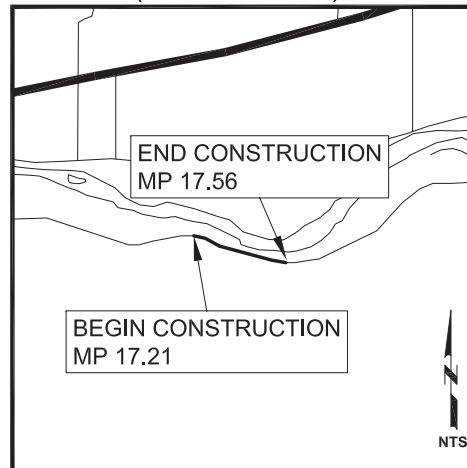
SITE A
SOUTH SKAGIT HWY
(SCHEDULE A)



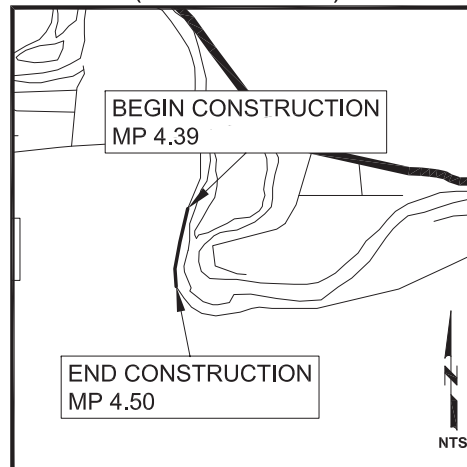
SITE C
CONCRETE-SAUK VALLEY RD
(SCHEDULE C)



SITE B
SOUTH SKAGIT HWY
(SCHEDULE B)



SITE D
CONCRETE-SAUK VALLEY RD
(SCHEDULE D)



SUMMARY OF QUANTITIES				
SCHEDULE A (SOUTH SKAGIT HIGHWAY MP 11.66 - 12.13)				
Item No	Spec.	Qty.	Unit	Item Description
A - 1	1-04.4(1)	EST	DOL	Unexpected Site Changes
A - 2	1-07.15(1)	1	LS	SPCC Plan
A - 3	1-09.7	1	LS	Mobilization
A - 4	1-10.5(2)	160	HR	Flaggers
A - 5	1-10.5(2)	1	LS	Traffic Control Supervisor
A - 6	1-10.4(1)	1	LS	Project Temporary Traffic Control
A - 7	1-10.5(2)	57	SF	Construction Signs Class A
A - 8	2-11.5	1	LS	Trimming and Cleanup
A - 9	4-04.5	34	TON	Shoulder Ballast
A - 10	8-10.5	24	EA	Flexible Guide Post
A - 11	8-11.5	1,193	LF	Beam Guardrail Type 31 - 6 Ft Long Post
A - 12	8-11.5	475	LF	Beam Guardrail Type 31 - 8 Ft Long Post
A - 13	8-11.5	623	LF	Beam Guardrail Type 31 - 9 Ft Long Post
A - 14	8-11.5	75	LF	Beam Guardrail Type 31 - 11 Ft Long Post
A - 15	8-11.5	2	EA	Beam Guardrail Type 31 - Non-Flared Terminal
A - 16	8-11.5	2,366	LF	Removing Guardrail
A - 17	8-11.5	2	EA	Removing Guardrail Anchor
SCHEDULE B (SOUTH SKAGIT HIGHWAY MP 17.21 - 17.56)				
Item No	Spec.	Qty.	Unit	Item Description
B - 1	1-04.4(1)	EST	DOL	Unexpected Site Changes
B - 2	1-07.15(1)	1	LS	SPCC Plan
B - 3	1-09.7	1	LS	Mobilization
B - 4	1-10.5(2)	128	HR	Flaggers
B - 5	1-10.5(2)	1	LS	Traffic Control Supervisor
B - 6	1-10.4(1)	1	LS	Project Temporary Traffic Control
B - 7	1-10.5(2)	41	SF	Construction Signs Class A
B - 8	2-01.3(4)	EST	DOL	Roadside Cleanup
B - 9	2-11.5	1	LS	Trimming and Cleanup
B - 10	4-04.5	26	TON	Shoulder Ballast
B - 11	8-10.5	18	EA	Flexible Guide Post
B - 12	8-11.5	187	LF	Beam Guardrail Type 31 - 6 Ft Long Post
B - 13	8-11.5	1,229	LF	Beam Guardrail Type 31 - 8 Ft Long Post
B - 14	8-11.5	284	LF	Beam Guardrail Type 31 - 9 Ft Long Post
B - 15	8-11.5	41	LF	Beam Guardrail Type 31 - 11 Ft Long Post
B - 16	8-11.5	2	EA	Beam Guardrail Type 31 - Non-Flared Terminal
B - 17	8-11.5	1,741	LF	Removing Guardrail
B - 18	8-11.5	2	EA	Removing Guardrail Anchor
SCHEDULE C (CONCRETE SAUK VALLEY ROAD MP 1.21 - 1.66)				
Item No	Spec.	Qty.	Unit	Item Description
C - 1	1-04.4(1)	EST	DOL	Unexpected Site Changes
C - 2	1-07.15(1)	1	LS	SPCC Plan
C - 3	1-09.7	1	LS	Mobilization
C - 4	1-10.5(2)	176	HR	Flaggers
C - 5	1-10.5(2)	1	LS	Traffic Control Supervisor
C - 6	1-10.4(1)	1	LS	Project Temporary Traffic Control
C - 7	1-10.5(2)	41	SF	Construction Signs Class A
C - 8	2-11.5	1	LS	Trimming and Cleanup
C - 9	4-04.5	33	TON	Shoulder Ballast
C - 10	8-10.5	24	EA	Flexible Guide Post
C - 11	8-11.5	875	LF	Beam Guardrail Type 31 - 6 Ft Long Post
C - 12	8-11.5	1,479	LF	Beam Guardrail Type 31 - 8 Ft Long Post
C - 13	8-11.5	129	LF	Beam Guardrail Type 31 - Buried End Terminal Type 2
C - 14	8-11.5	2	EA	Beam Guardrail Type 31 - Non-Flared Terminal
C - 15	8-11.5	2,354	LF	Removing Guardrail
C - 16	8-11.5	4	EA	Removing Guardrail Anchor
SCHEDULE D (CONCRETE SAUK VALLEY ROAD MP 4.39 - 4.50)				
Item No	Spec.	Qty.	Unit	Item Description
D - 1	1-04.4(1)	EST	DOL	Unexpected Site Changes
D - 2	1-07.15(1)	1	LS	SPCC Plan
D - 3	1-09.7	1	LS	Mobilization
D - 4	1-10.5(2)	96	HR	Flaggers
D - 5	1-10.5(2)	1	LS	Traffic Control Supervisor
D - 6	1-10.4(1)	1	LS	Project Temporary Traffic Control
D - 7	1-10.5(2)	41	SF	Construction Signs Class A
D - 8	2-11.5	1	LS	Trimming and Cleanup
D - 9	4-04.5	8	TON	Shoulder Ballast
D - 10	8-10.5	5	EA	Flexible Guide Post
D - 11	8-11.5	40	LF	Beam Guardrail Type 31 - 6 Ft Long Post
D - 12	8-11.5	395	LF	Beam Guardrail Type 31 - 8 Ft Long Post
D - 13	8-11.5	115	LF	Beam Guardrail Type 31 - Buried End Terminal Type 2
D - 14	8-11.5	475	LF	Removing Guardrail
D - 15	8-18.5	2	EA	Removing Guardrail Anchor
THE CONTRACTOR SHALL INCLUDE FOR COMPENSATION THE AMOUNT OF ANY TAXES PAID IN THE VARIOUS UNIT BID PRICES IN ACCORDANCE WITH SECTION 1-07.2(1)				



SKAGIT COUNTY OFFICIALS

BOARD OF COMMISSIONERS
 • LISA JANICKI, CHAIR
 • PETER BROWNING, COMMISSIONER
 • RON WESEN, COMMISSIONER
 PUBLIC WORKS
 • DAN BERENTSON, DIRECTOR

Paul A. Randall-Grutter

PAUL A. RANDALL-GRUTTER, P.E., COUNTY ENGINEER DATE 9.13.21

PLAN SHEET INDEX

SHEET	TITLE
1	COVER, VICINITY MAP, & SUMMARY OF QUANTITIES
2	LEGEND, ABBREVIATIONS, NOTES, & ROADWAY SECTION
3	SCHEDULE A GUARDRAIL
4	SCHEDULE B GUARDRAIL
5	SCHEDULE C GUARDRAIL
6	SCHEDULE D GUARDRAIL
7	CLASS A SIGNS
8	SCHEDULE A WZTC
9	SCHEDULE B WZTC
10	SCHEDULE C WZTC
11	SCHEDULE D WZTC

SKAGIT COUNTY PUBLIC WORKS
 1800 CONTINENTAL PLACE
 MOUNT VERNON, WA 98273-5625
 (360) 416-1400 FAX (360) 416-1405

NO.	REVISIONS	DATE



PROJECT NO.: ES07000-12
 FED. AID NO.: HSIP-000S(578)
 DESIGNED BY: JAS
 CHECKED BY: GKK
 DRAWN BY: JAS
 APPROVED BY: PAR
 PROJECT LOCATED NEAR:
 CONCRETE, WA
SEC 22, TSDM R&E & SEC 22 TSDM, RFE & SEC 16 & 23, TSDM, RFE

INSTALL/UPGRADE GUARDRAIL WITH REFLECTORS
 COVER SHEET

1 INCH SCALE BAR
 ADJUST SCALE ACCORDINGLY
 SHEET
1 OF 11



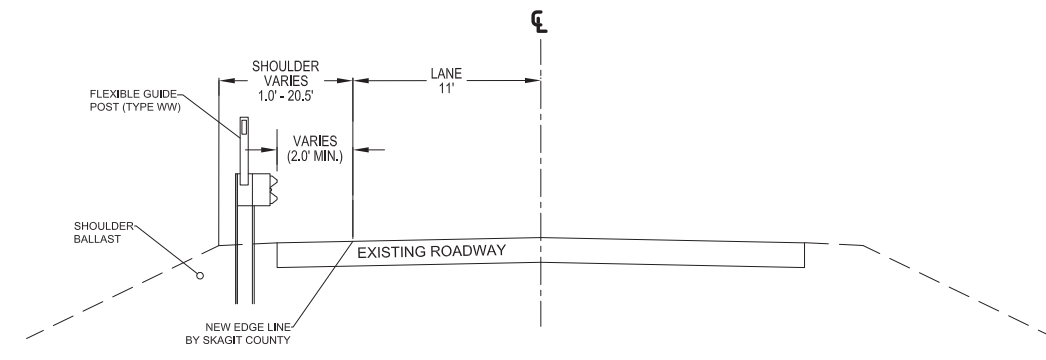
1-800-424-5555

GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT VERSION OF THE CONTRACT PLANS AND PROVISIONS, WSDOT STANDARD PLANS, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND THE 2021 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DIGGING, CALL 1-800-424-5555 AT LEAST TWO (2) BUSINESS DAYS BEFORE YOU DIG.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF ANY HAZARD CREATED BY OVERHEAD ELECTRICAL POWER AND SHALL FOLLOW ANY APPLICABLE PROCEDURES AS REQUIRED BY LAW.
4. THERE WILL NOT BE AN ADJUSTMENT IN UNIT PRICE FOR ANY ITEM DUE TO HAND DIGGING HOLES. ALL BIDDERS SHOULD REVIEW THE SITE BEFORE SUBMITTING A BID PROPOSAL.

ABBREVIATIONS:

AC	ACRE	LT	LEFT
AP	ANGLE POINT	MAX	MAXIMUM
APPROX	APPROXIMATE	MIN	MINIMUM
ASPH	ASPHALT	MIC	MONUMENT IN CASE
AVE	AVENUE	MON	MONUMENT
BLDG	BUILDING	MP	MILE POST
BLVD	BOULEVARD	MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
BVC	BEGIN VERTICAL CURVE	N	NORTH/NORTHING
CALC	CALCULATED	NTS	NOT TO SCALE
CAT	CATEGORY	OD	OUTSIDE DIAMETER
CB	CATCH BASIN	OHW	ORDINARY HIGH WATER MARK
CIP	CAST IRON PIPE	PERF	PERFORATED PIPE
CFS	CUBIC FEET PER SECOND	PC	POINT OF CURVATURE
CL & C	CENTERLINE	PI	POINT OF INTERSECTION
CP	CONTROL POINT	PT	POINT OF TANGENCY
CPCP	CORRUGATED POLYETHYLENE CULVERT PIPE	R	RADIUS
CPSSP	CORRUGATED POLYETHYLENE STORM SEWER PIPE	RD	ROAD
CONT'D	CONTINUED	RGE	RANGE
CULV	CULVERT	R/W &	RIGHT OF WAY
CY	CUBIC YARD	ROW	RIGHT OF WAY
DEG	DEGREE	RT	RIGHT
DIA	DIAMETER	S	SOUTH
DWG	DRAWING	SEC	SECTION
E	EAST/EASTING	SF	SQUARE FOOT
EL & ELEV	ELEVATION	SHLD	SHOULDER
EST	ESTIMATED	SPEC	SPECIFICATIONS
EVC	END VERTICAL CURVE	ST	STREET
FT & '	FEET	STA	STATION
GALV	GALVANIZED	SY	SQUARE YARD
GND	GROUND	SYMM	SYMMETRICAL
GR	GUARDRAIL	TWN	TOWNSHIP
HMA	HOT MIX ASPHALT	TYP	TYPICAL
HR	HOUR	UG	UNDERGROUND
IN & "	INCHES	VCL	VERTICAL CURVE LENGTH
INV	INVERT	VPI	VERTICAL POINT INTERSECTION
K	CURVE COEFFICIENT	W	WEST
L	LENGTH OF CURVE	W.M.	WILLAMETTE MERIDIAN
LF	LINEAR FEET	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
LS	LUMP SUM		



TYPICAL ROADWAY DETAIL

CONSTRUCTION NOTES:

1. MATERIALS USED TO FILL VOID LEFT BY POST REMOVAL SHALL BE IN ACCORDANCE TO STANDARD SPECIFICATION 8-11.3(1)D. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCIDENTAL TO BID ITEMS LISTED IN CONTRACT.
2. BACKFILL MATERIALS USED AND ALL OTHER COSTS ASSOCIATED TO THE INSTALLATION OF THE BURIED END TERMINALS SHALL BE INCIDENTAL TO BID ITEMS LISTED IN CONTRACT PER STANDARD SPECIFICATION 8-11.3(1)C.
3. FLEXIBLE GUIDE POST WITH REFLECTIVE SHEETING SHALL BE INSTALLED PER STANDARD SPECIFICATION 8-10.3. SEE STANDARD PLAN M-40,10-03
4. WHEN INSTALLING POSTS, EXTRA BLOCKS MAY BE REQUIRED, WHICH SHALL BE INCLUDED IN THE UNIT BID PRICE FOR GUARDRAIL INSTALLATION.
5. ALL POSTS SHALL BE DOMESTIC STEEL IN LENGTHS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. CONTRACTOR SHALL VERIFY RADIUS PRIOR TO ORDERING MATERIALS.
7. USE CASES 1 AND 3 WHEN THERE IS A 2.5-FOOT TO 4.0-FOOT SHOULDER WIDENING FROM FACE OF GUARDRAIL TO THE BREAKPOINT.
8. USE CASE 2 WHEN THERE IS A 4.0-FOOT OR GREATER SHOULDER WIDENING FROM THE FACE OF GUARDRAIL TO THE BREAKPOINT.
9. USE CASES 4, 5, AND 6 WHEN THERE IS LESS THAN A 2.5-FOOT SHOULDER WIDENING FROM FACE OF GUARDRAIL TO THE BREAKPOINT.

LEGEND

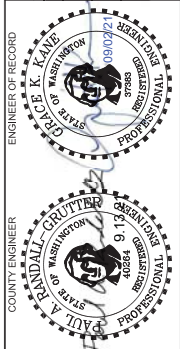
	ROAD CENTERLINE		CLASS "A" SIGN
	EXISTING EDGE OF ASPHALT		CLASS "B" SIGN
	EXISTING GUARDRAIL		TEMPORARY TRAFFIC CONTROL DEVICE
	PROPOSED GUARDRAIL		PROTECTIVE VEHICLE 2/ FLASHING BEACON
	COUNTY RIGHT OF WAY		FLAGGER STATION
	CONSTRUCTION NOTE		



1-800-424-5555

SKAGIT COUNTY PUBLIC WORKS
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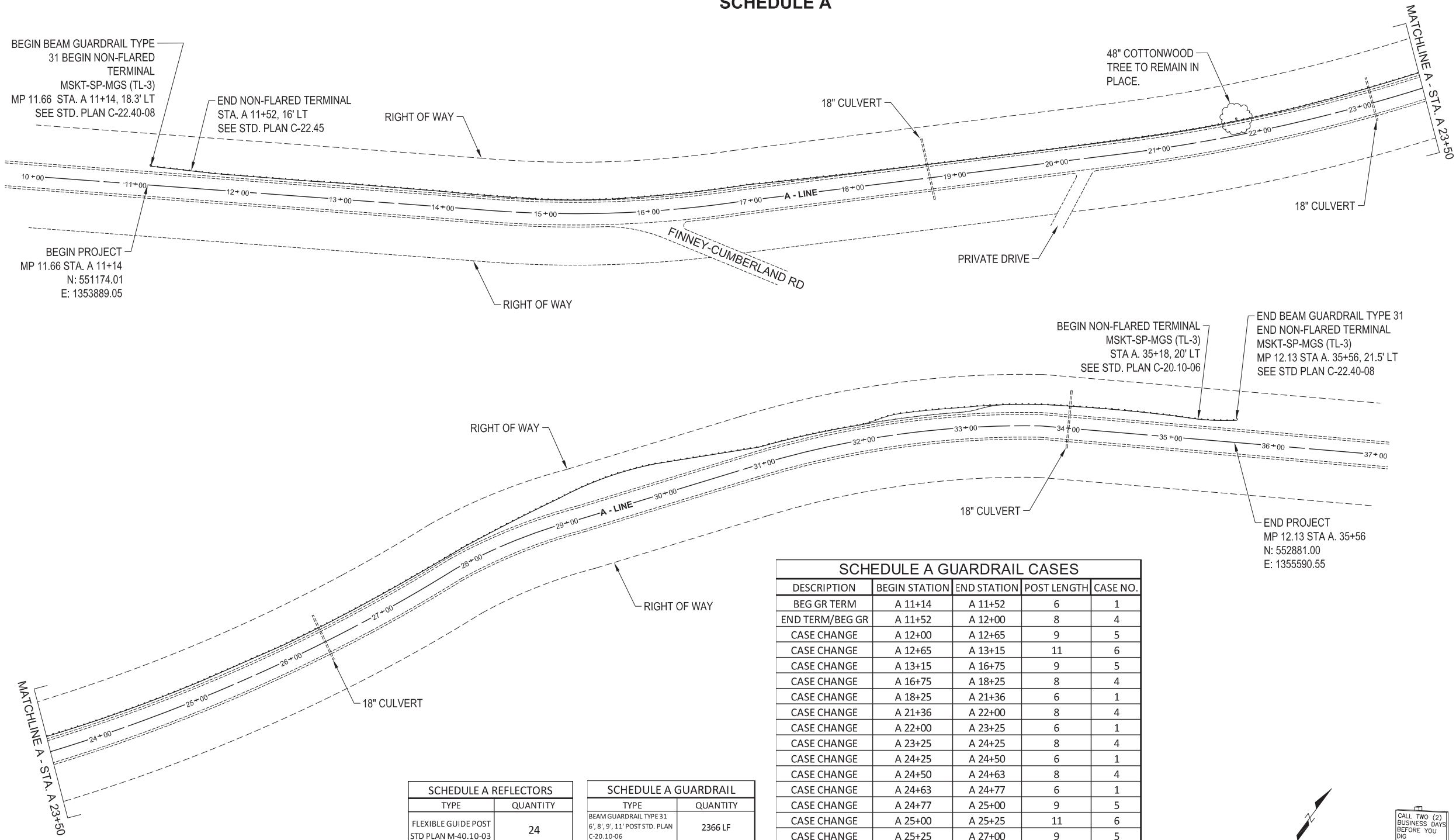


PROJECT NO.: ES07000-12	FED. AID NO.: HSIF-0005(576)	DRAWN BY: JAS	APPROVED BY: PAR
DESIGNED BY: JAS	CHECKED BY: GKK	PROJECT LOCATED NEAR: CONCRETE, WA	SEC 22, T30A RBE & SEC 22, T30A, RFE & SEC 16 & 23, T30A, RBE

INSTALL/UPGRADE GUARDRAIL WITH REFLECTORS
 LEGEND, ABBREVIATIONS, & TYPICAL ROAD SECTION

1 INCH SCALE BAR
 ADJUST SCALE ACCORDINGLY
 SHEET
2 OF 11

SOUTH SKAGIT HIGHWAY MP 11.66 - 12.13 SCHEDULE A



BEGIN BEAM GUARDRAIL TYPE 31 BEGIN NON-FLARED TERMINAL MSKT-SP-MGS (TL-3) MP 11.66 STA. A 11+14, 18.3' LT SEE STD. PLAN C-22.40-08

END NON-FLARED TERMINAL STA. A 11+52, 16' LT SEE STD. PLAN C-22.45

48" COTTONWOOD TREE TO REMAIN IN PLACE.

BEGIN PROJECT MP 11.66 STA. A 11+14 N: 551174.01 E: 1353889.05

BEGIN NON-FLARED TERMINAL MSKT-SP-MGS (TL-3) STA A. 35+18, 20' LT SEE STD. PLAN C-20.10-06

END BEAM GUARDRAIL TYPE 31 END NON-FLARED TERMINAL MSKT-SP-MGS (TL-3) MP 12.13 STA A. 35+56, 21.5' LT SEE STD PLAN C-22.40-08

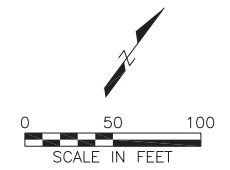
END PROJECT MP 12.13 STA A. 35+56 N: 552881.00 E: 1355590.55

NOTE
CONSTRUCTION ALIGNMENT IS BASED ON THE PAINTED ROAD CENTERLINE.

SCHEDULE A REFLECTORS	
TYPE	QUANTITY
FLEXIBLE GUIDE POST STD PLAN M-40.10-03	24

SCHEDULE A GUARDRAIL	
TYPE	QUANTITY
BEAM GUARDRAIL TYPE 31 6', 8', 9', 11' POST STD. PLAN C-20.10-06	2366 LF
BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL MSKT-SP-MGS(TL-3) STD. PLAN C-22.40-08	2

SCHEDULE A GUARDRAIL CASES				
DESCRIPTION	BEGIN STATION	END STATION	POST LENGTH	CASE NO.
BEG GR TERM	A 11+14	A 11+52	6	1
END TERM/BEG GR	A 11+52	A 12+00	8	4
CASE CHANGE	A 12+00	A 12+65	9	5
CASE CHANGE	A 12+65	A 13+15	11	6
CASE CHANGE	A 13+15	A 16+75	9	5
CASE CHANGE	A 16+75	A 18+25	8	4
CASE CHANGE	A 18+25	A 21+36	6	1
CASE CHANGE	A 21+36	A 22+00	8	4
CASE CHANGE	A 22+00	A 23+25	6	1
CASE CHANGE	A 23+25	A 24+25	8	4
CASE CHANGE	A 24+25	A 24+50	6	1
CASE CHANGE	A 24+50	A 24+63	8	4
CASE CHANGE	A 24+63	A 24+77	6	1
CASE CHANGE	A 24+77	A 25+00	9	5
CASE CHANGE	A 25+00	A 25+25	11	6
CASE CHANGE	A 25+25	A 27+00	9	5
CASE CHANGE	A 27+00	A 28+00	8	4
END GR/ BEG TERM	A 28+00	A 35+18	6	1
END GR TERM	A 35+18	A 35+56	6	1



SKAGIT COUNTY PUBLIC WORKS
1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273-5625
(360) 416-1400 FAX (360) 416-1405

NO.	REVISIONS	DATE

ENGINEER OF RECORD
RANDALL CRUTCHER
STATE OF WASHINGTON
LICENSE NO. 40886

DESIGN ENGINEER
CRAG K. PAYNE
STATE OF WASHINGTON
LICENSE NO. 37989

PROJECT NO.: ES07000-12	DESIGNED BY: JAS	APPROVED BY: PAR
FED. AID NO.: HSIP-0005(578)	DRAWN BY: JAS	CHECKED BY: GKK
PROJECT LOCATED NEAR: DAY CREEK, WA SEC 22, T35N, R06E		

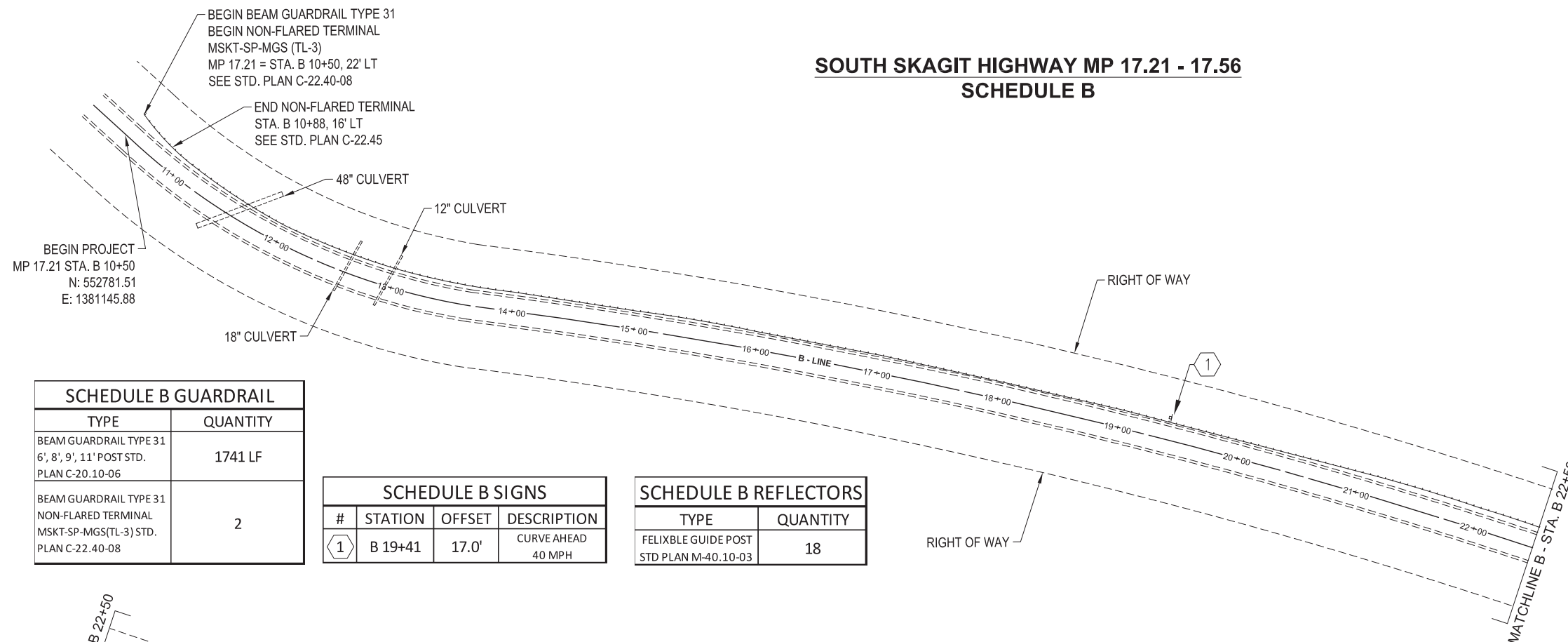
INSTALL/UPGRADE GUARDRAIL WITH REFLECTORS

SCHEDULE A - SOUTH SKAGIT HWY
MP 11.66 - 12.13

1 INCH SCALE BAR
ADJUST SCALE ACCORDINGLY

SHEET
3 OF 11

SOUTH SKAGIT HIGHWAY MP 17.21 - 17.56 SCHEDULE B

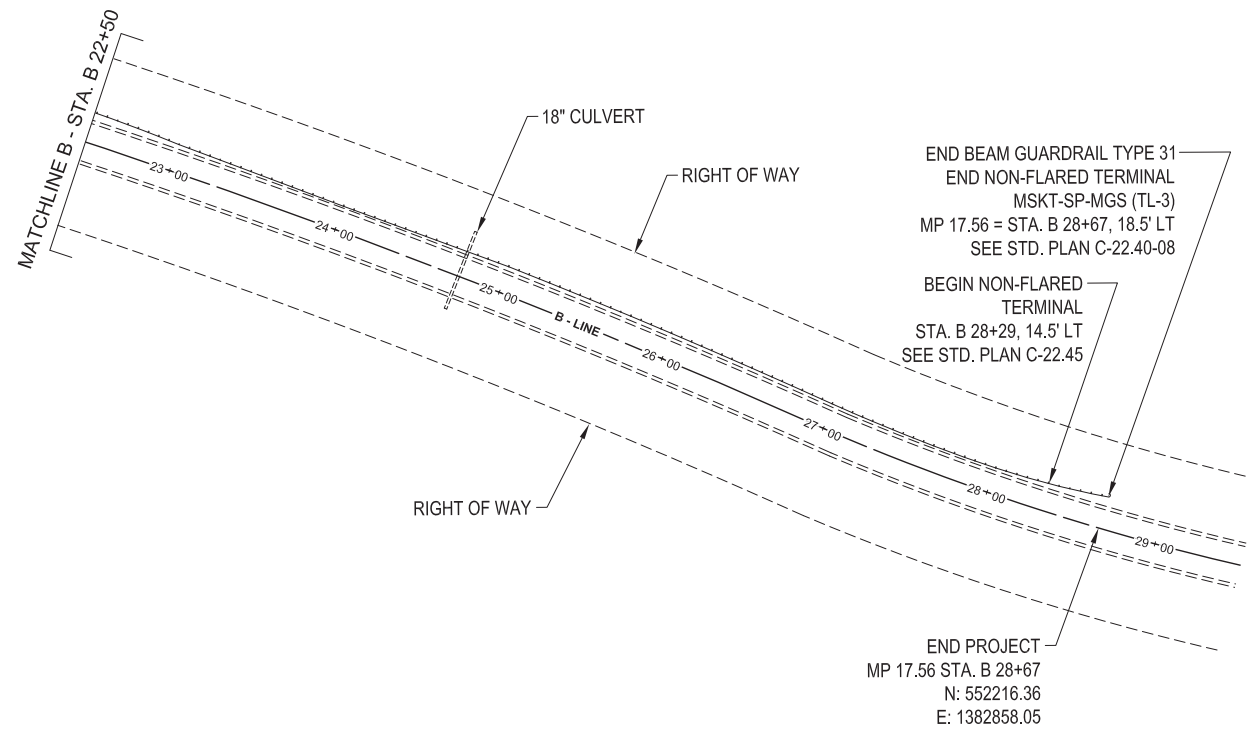


BEGIN PROJECT
MP 17.21 STA. B 10+50
N: 552781.51
E: 1381145.88

SCHEDULE B GUARDRAIL	
TYPE	QUANTITY
BEAM GUARDRAIL TYPE 31 6', 8', 9', 11' POST STD. PLAN C-20.10-06	1741 LF
BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL MSKT-SP-MGS(TL-3) STD. PLAN C-22.40-08	2

SCHEDULE B SIGNS			
#	STATION	OFFSET	DESCRIPTION
1	B 19+41	17.0'	CURVE AHEAD 40 MPH

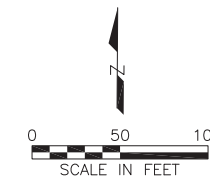
SCHEDULE B REFLECTORS	
TYPE	QUANTITY
FELIXBLE GUIDE POST STD PLAN M-40.10-03	18



END PROJECT
MP 17.56 STA. B 28+67
N: 552216.36
E: 1382858.05

SCHEDULE B GUARDRAIL CASES				
DESCRIPTION	BEGIN STATION	END STATION	POST LENGTH	CASE NO.
BEG GR TERM	B 10+50	B 10+88	6	1
END TERM/BEG GR	B 10+88	B 12+00	6	1
CASE CHANGE	B 12+00	B 13+00	8	4
CASE CHANGE	B 13+00	B 13+25	9	5
CASE CHANGE	B 13+25	B 16+50	8	4
CASE CHANGE	B 16+50	B 16+75	6	1
CASE CHANGE	B 16+75	B 18+50	8	4
CASE CHANGE	B 18+50	B 19+00	6	1
CASE CHANGE	B 19+00	B 19+41	11	6
CASE CHANGE	B 19+41	B 20+00	9	5
CASE CHANGE	B 20+00	B 21+00	8	4
CASE CHANGE	B 21+00	B 23+00	9	5
END GR/ BEG TERM	B 23+00	B 28+29	8	4
END GR TERM	B 28+29	B 28+67	6	1

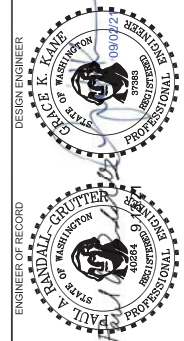
NOTE
CONSTRUCTION ALIGNMENT IS BASED
ON THE PAINTED ROAD CENTERLINE.



1-800-424-5555

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1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273-5625
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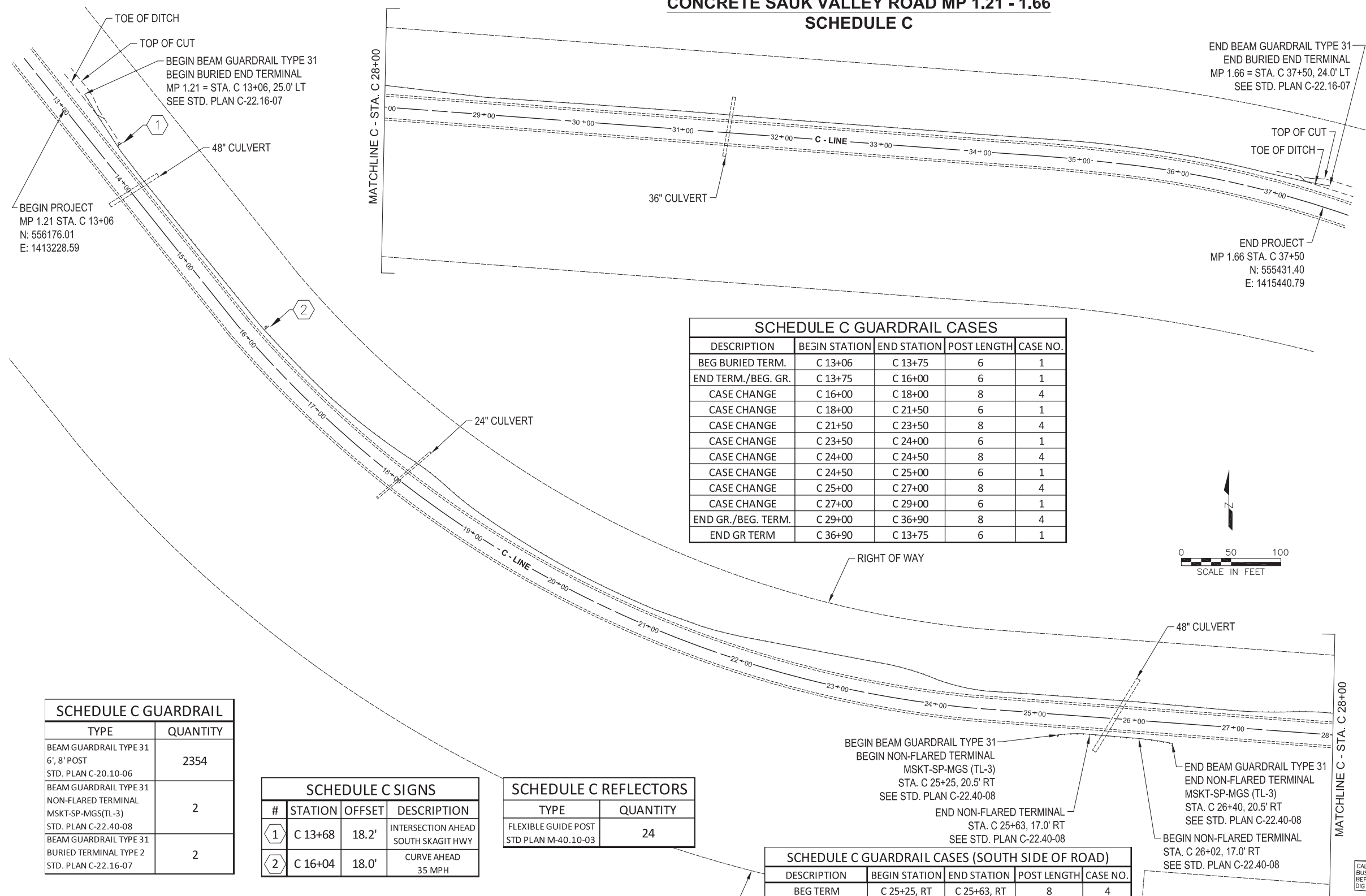


PROJECT NO.: ES07000-12
FED. AID NO.: HSIF-0005(578)
DESIGNED BY: JAS
DRAWN BY: JAS
CHECKED BY: GJK
APPROVED BY: PAR
PROJECT LOCATED NEAR:
BIRDSVIEW, WA
SEC 21 & 22, T35N, R7E

**INSTALL/UPGRADE GUARDRAIL
WITH REFLECTORS**
SCHEDULE B - SOUTH SKAGIT HWY
MP 17.21 - 17.56

1 INCH SCALE BAR
ADJUST SCALE ACCORDINGLY
SHEET
4 OF 11

**CONCRETE SAUK VALLEY ROAD MP 1.21 - 1.66
SCHEDULE C**



BEGIN PROJECT
MP 1.21 STA. C 13+06
N: 556176.01
E: 1413228.59

END BEAM GUARDRAIL TYPE 31
END BURIED END TERMINAL
MP 1.66 = STA. C 37+50, 24.0' LT
SEE STD. PLAN C-22.16-07

END PROJECT
MP 1.66 STA. C 37+50
N: 555431.40
E: 1415440.79

SCHEDULE C GUARDRAIL CASES				
DESCRIPTION	BEGIN STATION	END STATION	POST LENGTH	CASE NO.
BEG BURIED TERM.	C 13+06	C 13+75	6	1
END TERM./BEG. GR.	C 13+75	C 16+00	6	1
CASE CHANGE	C 16+00	C 18+00	8	4
CASE CHANGE	C 18+00	C 21+50	6	1
CASE CHANGE	C 21+50	C 23+50	8	4
CASE CHANGE	C 23+50	C 24+00	6	1
CASE CHANGE	C 24+00	C 24+50	8	4
CASE CHANGE	C 24+50	C 25+00	6	1
CASE CHANGE	C 25+00	C 27+00	8	4
CASE CHANGE	C 27+00	C 29+00	6	1
END GR./BEG. TERM.	C 29+00	C 36+90	8	4
END GR TERM	C 36+90	C 13+75	6	1

SCHEDULE C GUARDRAIL	
TYPE	QUANTITY
BEAM GUARDRAIL TYPE 31 6', 8' POST STD. PLAN C-20.10-06	2354
BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL MSKT-SP-MGS(TL-3) STD. PLAN C-22.40-08	2
BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2 STD. PLAN C-22.16-07	2

SCHEDULE C SIGNS			
#	STATION	OFFSET	DESCRIPTION
1	C 13+68	18.2'	INTERSECTION AHEAD SOUTH SKAGIT HWY
2	C 16+04	18.0'	CURVE AHEAD 35 MPH

SCHEDULE C REFLECTORS	
TYPE	QUANTITY
FLEXIBLE GUIDE POST STD PLAN M-40.10-03	24

SCHEDULE C GUARDRAIL CASES (SOUTH SIDE OF ROAD)				
DESCRIPTION	BEGIN STATION	END STATION	POST LENGTH	CASE NO.
BEG TERM	C 25+25, RT	C 25+63, RT	8	4
BEG GR	C 25+63, RT	C 26+02, RT	8	4
END TERM	C 26+02, RT	C 26+40, RT	8	4

NOTE
CONSTRUCTION ALIGNMENT IS BASED
ON THE PAINTED ROAD CENTERLINE.

**SKAGIT COUNTY
PUBLIC WORKS**

1800 CONTINENTAL PLACE
MOUNT VERNON, WA 98273-5625
(360) 416-1400 FAX (360) 416-1405

NO.	REVISIONS	DATE

ENGINEER OF RECORD

DESIGN ENGINEER

PROJECT NO.: ES07000-12
FED. AID NO.: HSIF-0005(578)
DESIGNED BY: JAS
DRAWN BY: JAS
CHECKED BY: GKK
APPROVED BY: PAR

PROJECT LOCATED NEAR:
CONCRETE, WA
SEC 15 & 16, T35N, R1E

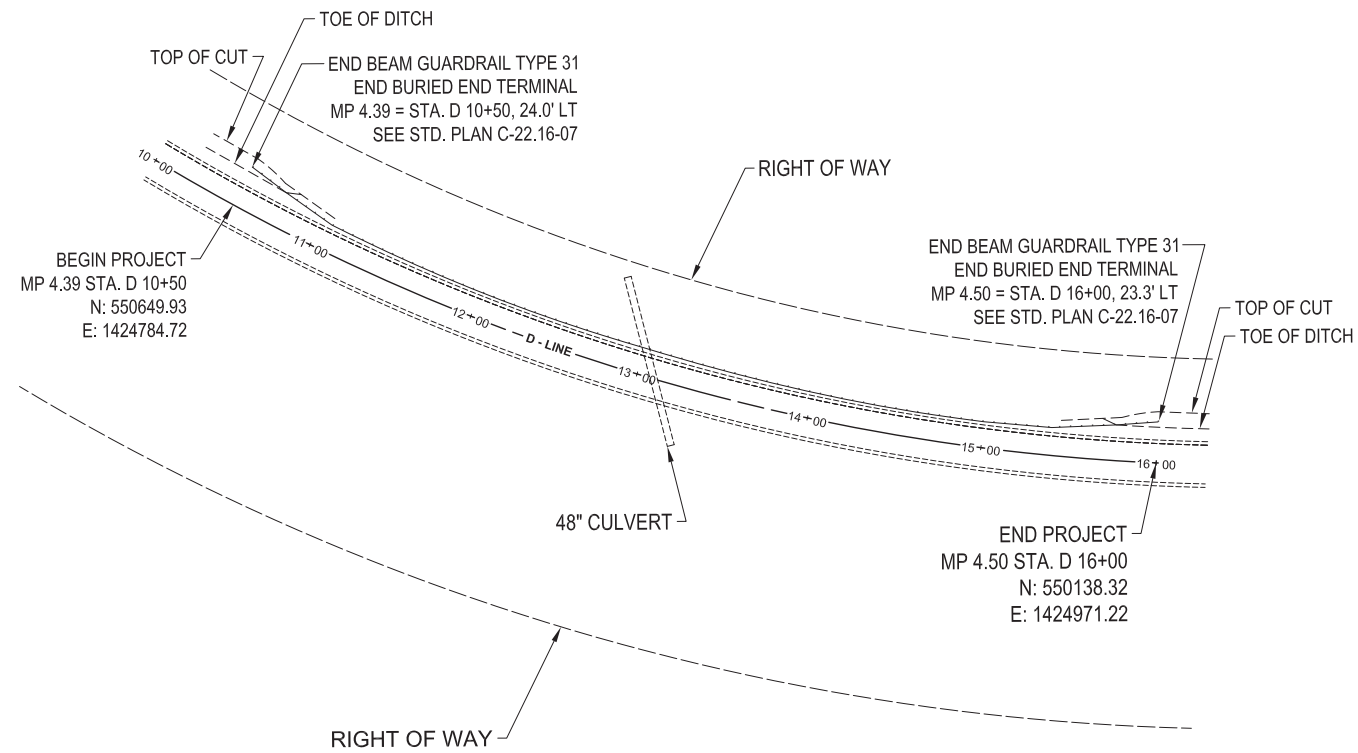
**INSTALL/UPGRADE GUARDRAIL
WITH REFLECTORS**

SCHEDULE C - CONCRETE SAUK VALLEY ROAD
MP 1.21 - 1.66

1 INCH SCALE BAR
ADJUST SCALE ACCORDINGLY

SHEET
5 OF 11

**CONCRETE SAUK VALLEY ROAD MP 4.39 - 4.50
SCHEDULE D**

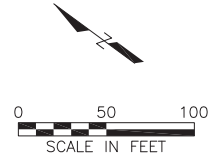


SCHEDULE D GUARDRAIL CASES				
DESCRIPTION	BEGIN STATION	END STATION	POST LENGTH	CASE NO.
BEG BURIED TERM.	D 10+50	D 11+05	6	1
CASE CHANGE	D 11+05	D 15+00	8	4
CASE CHANGE	D 15+00	D 15+40	6	1
BEG BURIED TERM.	D 15+40	D 16+00	6	1

SCHEDULE D GUARDRAIL	
TYPE	QUANTITY
BEAM GUARDRAIL TYPE 31 6', 8' POST STD. PLAN C-20.10-06	435 LF
BEAM GUARDRAIL TYPE 31 BURIED TERMINAL TYPE 2 STD. PLAN C-22.16-07	2

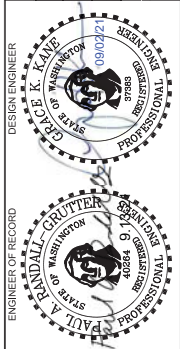
SCHEDULE D REFLECTORS	
TYPE	QUANTITY
FLEXIBLE GUIDE POST STD. PLAN M-40.10-03	5

NOTE
CONSTRUCTION ALIGNMENT IS BASED
ON THE PAINTED ROAD CENTERLINE.



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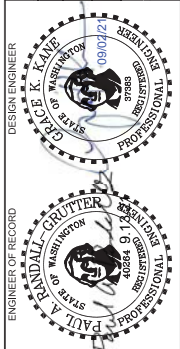


PROJECT NO.: ES07000-12
FED. AID NO.: HSIF-0005(578)
DESIGNED BY: JAS
CHECKED BY: GKK
DRAWN BY: JAS
APPROVED BY: PAR
PROJECT LOCATED NEAR:
CONCRETE, WA
SEC 23, T35N, R8E

**INSTALL/UPGRADE GUARDRAIL
WITH REFLECTORS**
SCHEDULE D - CONCRETE SAUK VALLEY ROAD
MP 4.39 - 4.50

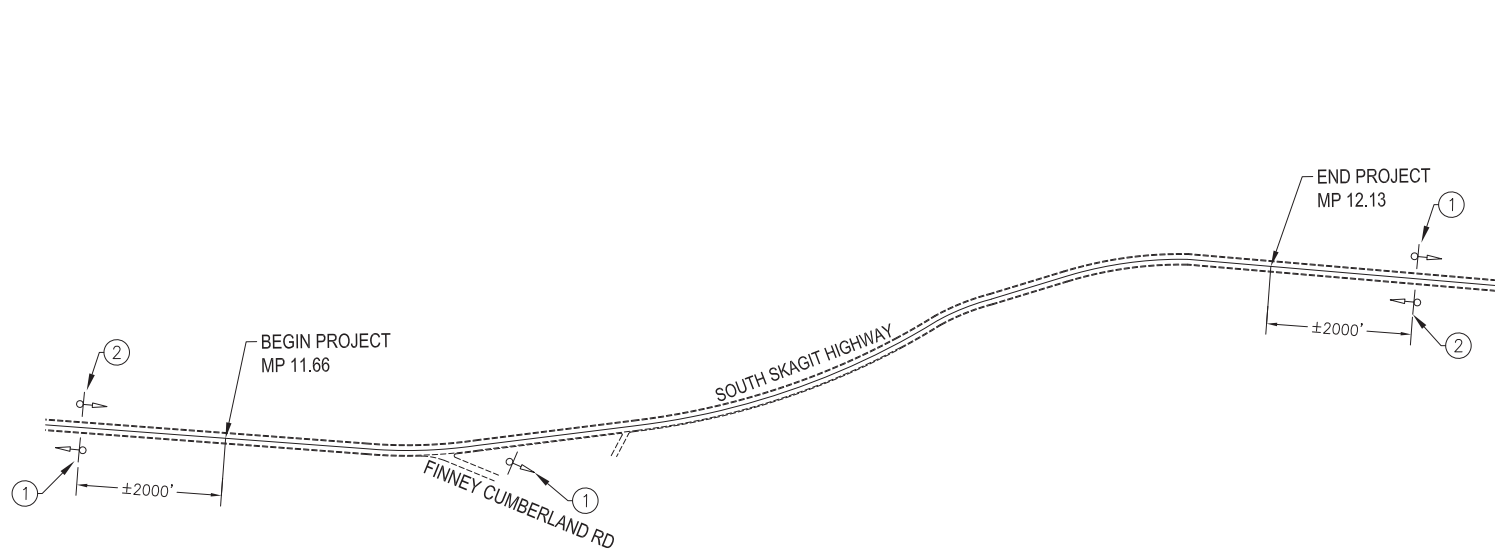
1 INCH SCALE BAR
ADJUST SCALE ACCORDINGLY
SHEET
6 OF 11

NO.	REVISIONS	DATE

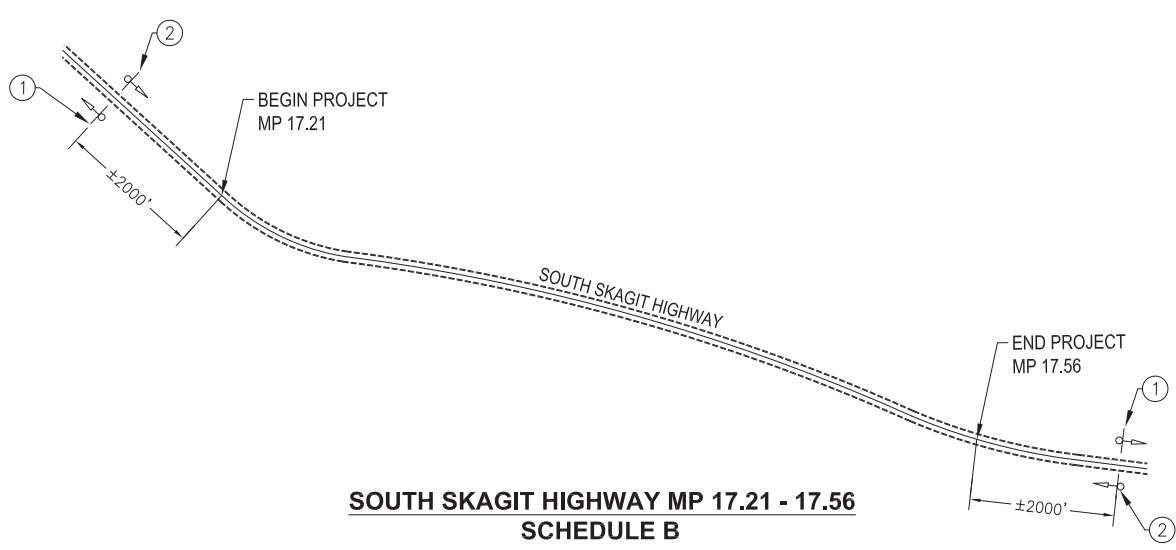


PROJECT NO.: ES07000-12	FED. AID NO.: HSPJ-0005(578)	DRAWN BY: JAS	APPROVED BY: PAR
DESIGNED BY: JAS	CHECKED BY: SKK	PROJECT LOCATED NEAR: SKAGIT COUNTY, WA	

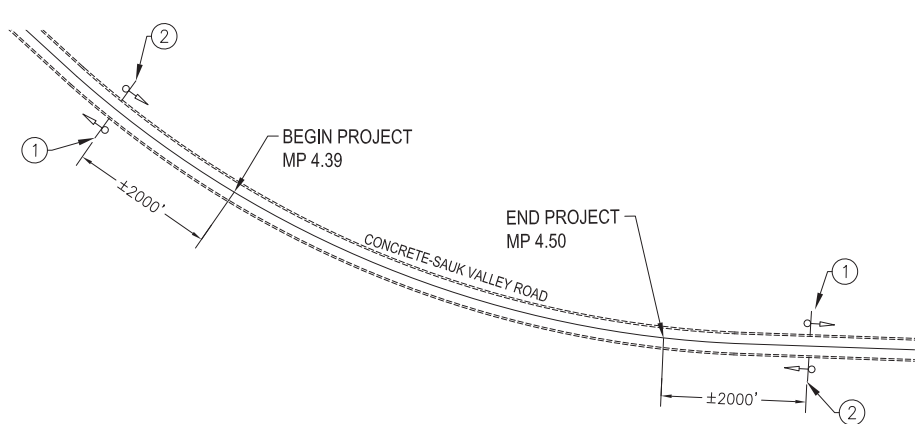
INSTALL/UPGRADE GUARDRAIL WITH REFLECTORS
 CLASS 'A' SIGNS
 SCHEDULE A, B, C, & D



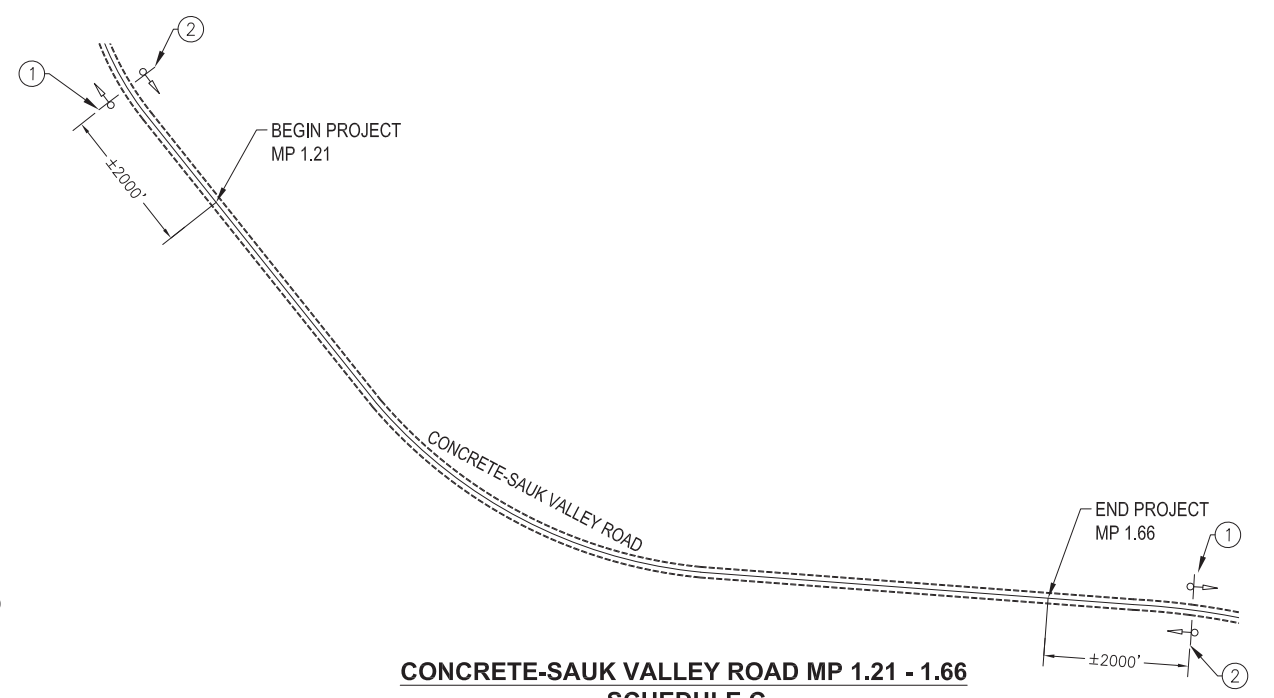
**SOUTH SKAGIT HIGHWAY MP 11.66 - 12.13
 SCHEDULE A**



**SOUTH SKAGIT HIGHWAY MP 17.21 - 17.56
 SCHEDULE B**



**CONCRETE-SAUK VALLEY ROAD MP 4.39 - 4.50
 SCHEDULE D**



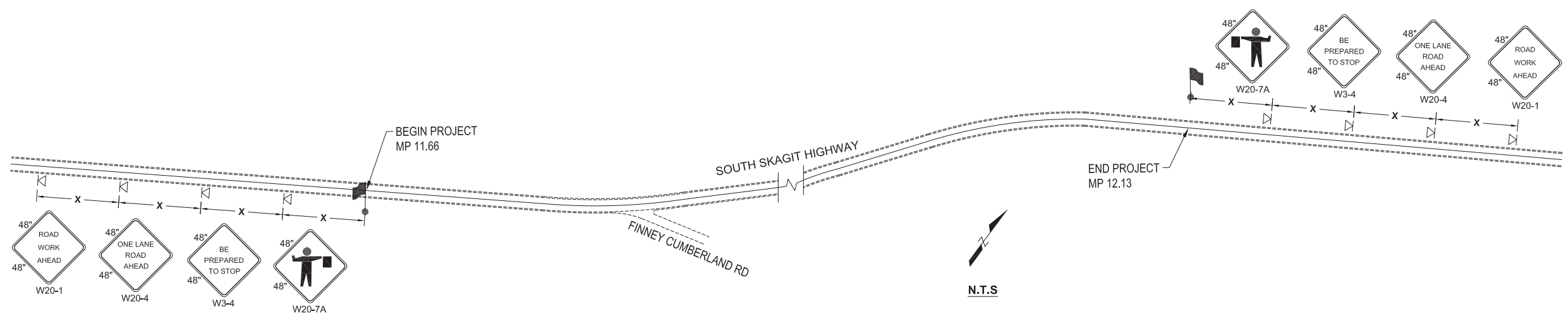
**CONCRETE-SAUK VALLEY ROAD MP 1.21 - 1.66
 SCHEDULE C**

CONSTRUCTION SIGN CLASS A NOTES:

- SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MOST CURRENT M.U.T.C.D. ADOPTED BY WAC 468-95 AND ITS MODIFICATIONS.
- SIGNS SHALL CONFORM TO THE 2021 WSDOT STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION MANUAL.
- SIGNS SHALL NOT BE LOCATED WHERE THEY MAY CAUSE SIGHT DISTANCE PROBLEMS.
- IF WORK INCLUDES GROOVED PAVEMENT, ABRUPT LANE EDGES, STEEL PLATES, OR GRAVEL OR EARTH SURFACES, SIGNS SHALL BE PLACED STATING THE CONDITION, AS REQUIRED BY THE CURRENT M.U.T.C.D. & WAC 468-95.
- CONTRACTOR SHALL FURNISH ALL SIGNS.
- SIGNS SHALL BE MOUNTED ON 4X4 POSTS.
- CLASS B SIGNS ARE NOT SHOWN ON DRAWING.
- ALL SIGN SPACING MAY BE ADJUSTED TO ACCOMMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.

LEADER NO.	CONSTRUCTION SIGN	QUANTITY SCHEDULE				SIZE	(S.F.) SCHEDULE			
		A	B	C	D		A	B	C	D
1	W20-1	3	2	2	2	48"x48"	48	32	32	32
2	G20-2	2	2	2	2	36"x18"	9	9	9	9
TOTAL S.F. =							57	41	41	41

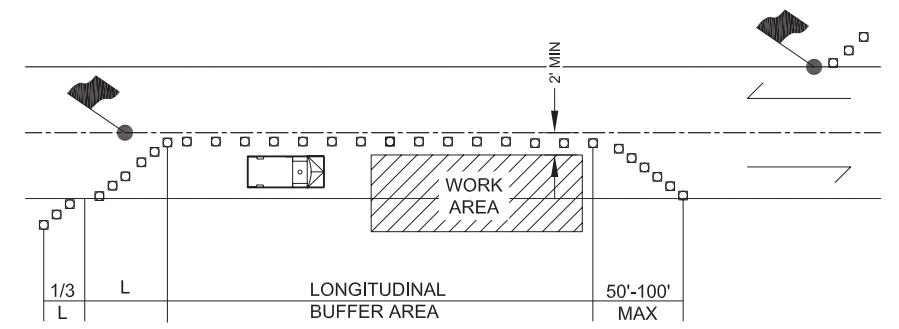
SOUTH SKAGIT HIGHWAY MP 11.66 - 12.13
SCHEDULE A



SIGN SPACING = X (FEET)		
FREEWAYS/EXRESSWAYS	55-70 MPH	1500±
RURAL HIGHWAY	60-65 MPH	800±
RURAL ROADS	45-55	500±
RURAL ROADS & URBAN ARTERIALS	35-40 MPH	350±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25-30 MPH	200±
URBAN STREETS	25 MPH-LESS	100±

- GENERAL NOTES:**
- ALL SIGNS SHOWN ON TRAFFIC CONTROL PLANS ARE CONSTRUCTION SIGNS CLASS "B" UNLESS OTHERWISE SPECIFIED.
 - ALL SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.
 - TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
 - ALL TAPERS SHALL HAVE A SIX DEVICE MINIMUM

- NOTES:**
- THIS TRAFFIC CONTROL PLAN IS FOR DAYLIGHT HOURS ONLY
 - FOR LEFT LANE CLOSURES, USE SIGNS W20-5(L), W4-2(R) AND CHANGE PCMS MESSAGE 1 TO "LEFT LANE CLOSED".
 - THE CONTRACTOR SHALL PLACE A SET OF THREE TRAFFIC DRUMS IN THE WORK ZONE. AS WORK PROCEEDS AWAY FROM THE MERGING TAPER AN ADDITIONAL SET OF DRUMS WILL BE REQUIRED FOR EVERY 1000' OF CLOSED LANE.
 - SEE SPECIAL PROVISION "CONSTRUCTION UNDER TRAFFIC".



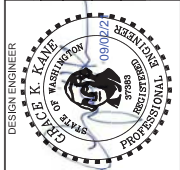
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FEET)	155	200	250	305	360	425	495	570	645	730

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

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

SKAGIT COUNTY PUBLIC WORKS
 1800 CONTINENTAL PLACE
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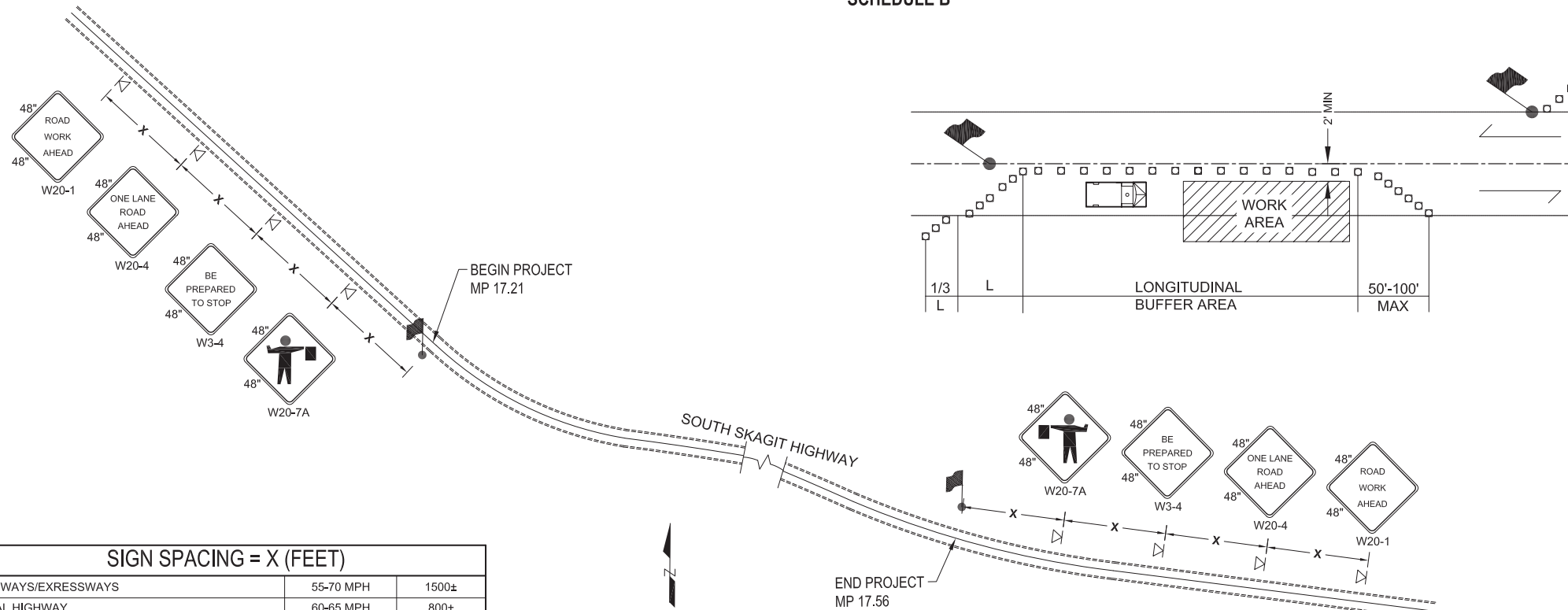


PROJECT NO.: ES07000-12
 FED. AID NO.: HSPJ-005(578)
 DESIGNED BY: JAS
 CHECKED BY: GKK
 DRAWN BY: JAS
 APPROVED BY: PAR
 PROJECT LOCATED NEAR:
 SKAGIT COUNTY, WA

INSTALL/UPGRADE GUARDRAIL WITH REFLECTORS
 WORK ZONE TRAFFIC CONTROL
 SCHEDULE A

1 INCH SCALE BAR
 ADJUST SCALE ACCORDINGLY
 SHEET
8 OF 11

SOUTH SKAGIT HIGHWAY MP 17.21 - 17.56
SCHEDULE B



SIGN SPACING = X (FEET)		
FREEWAYS/EXRESSWAYS	55-70 MPH	1500±
RURAL HIGHWAY	60-65 MPH	800±
RURAL ROADS	45-55	500±
RURAL ROADS & URBAN ARTERIALS	35-40 MPH	350±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25-30 MPH	200±
URBAN STREETS	25 MPH-LESS	100±

GENERAL NOTES:

1. ALL SIGNS SHOWN ON TRAFFIC CONTROL PLANS ARE CONSTRUCTION SIGNS CLASS "B" UNLESS OTHERWISE SPECIFIED.
2. ALL SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.
3. TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
4. ALL TAPERS SHALL HAVE A SIX DEVICE MINIMUM

NOTES:

1. THIS TRAFFIC CONTROL PLAN IS FOR DAYLIGHT HOURS ONLY
2. FOR LEFT LANE CLOSURES, USE SIGNS W20-5(L), W4-2(R) AND CHANGE PCMS MESSAGE 1 TO "LEFT LANE CLOSED".
3. THE CONTRACTOR SHALL PLACE A SET OF THREE TRAFFIC DRUMS IN THE WORK ZONE. AS WORK PROCEEDS AWAY FROM THE MERGING TAPER AN ADDITIONAL SET OF DRUMS WILL BE REQUIRED FOR EVERY 1000' OF CLOSED LANE.
4. SEE SPECIAL PROVISION "CONSTRUCTION UNDER TRAFFIC".

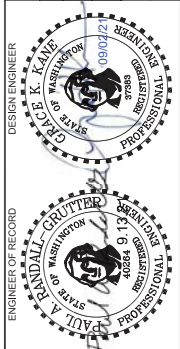
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LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FEET)	155	200	250	305	360	425	495	570	645	730

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

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

SKAGIT COUNTY PUBLIC WORKS
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MOUNT VERNON, WA 98273-5625
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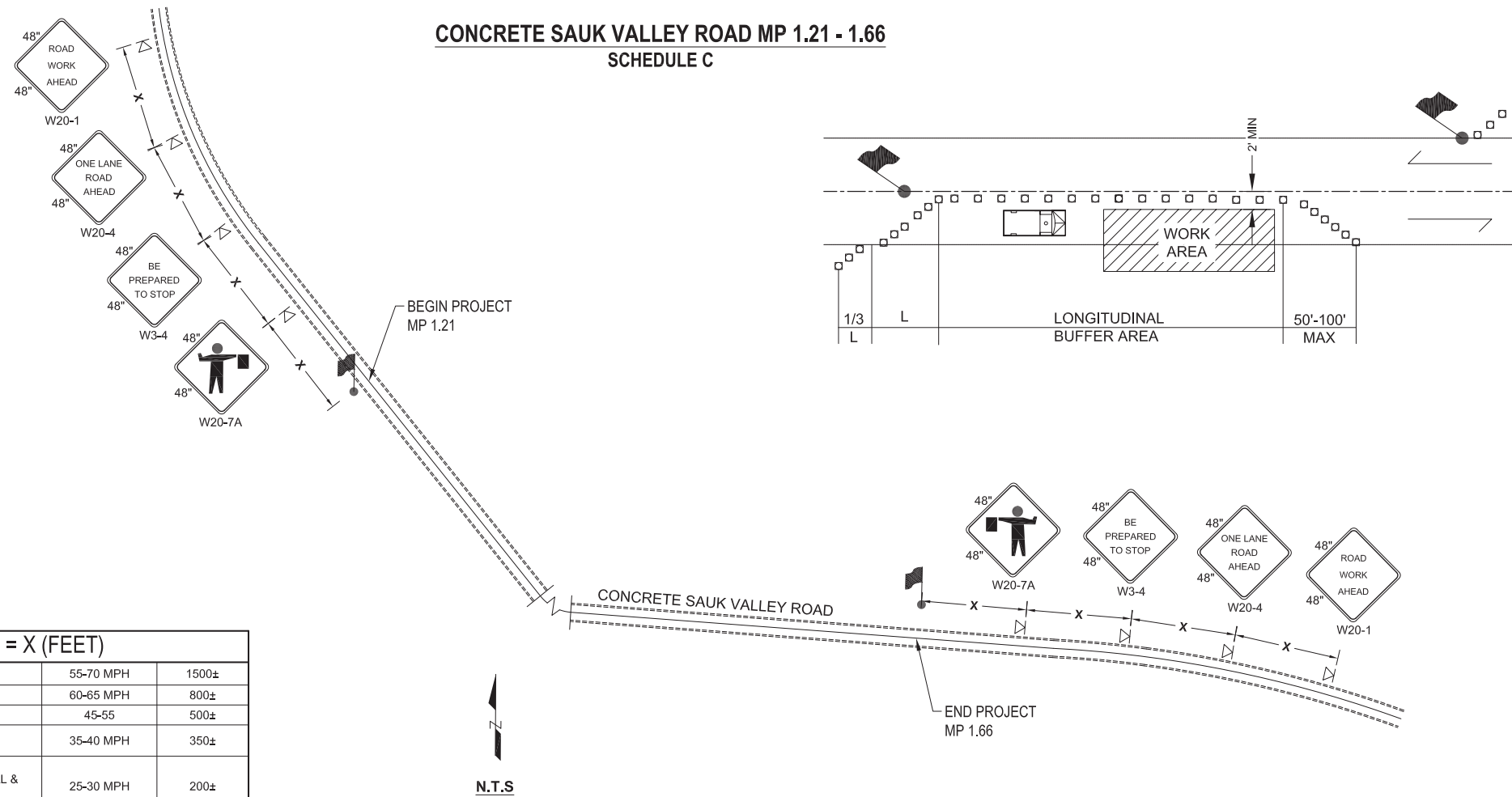


PROJECT NO.: ES07000-12
FED. AID NO.: HSIP-J005(578)
DESIGNED BY: JAS
DRAWN BY: JAS
CHECKED BY: GKK
APPROVED BY: PAR
PROJECT LOCATED NEAR:
SKAGIT COUNTY, WA

INSTALL/UPGRADE GUARDRAIL WITH REFLECTORS
WORK ZONE TRAFFIC CONTROL
SCHEDULE B

1 INCH SCALE BAR
ADJUST SCALE ACCORDINGLY
SHEET
9 OF 11

CONCRETE SAUK VALLEY ROAD MP 1.21 - 1.66
SCHEDULE C



SIGN SPACING = X (FEET)		
FREEWAYS/EXRESSWAYS	55-70 MPH	1500±
RURAL HIGHWAY	60-65 MPH	800±
RURAL ROADS	45-55	500±
RURAL ROADS & URBAN ARTERIALS	35-40 MPH	350±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25-30 MPH	200±
URBAN STREETS	25 MPH-LESS	100±

GENERAL NOTES:

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2. ALL SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.
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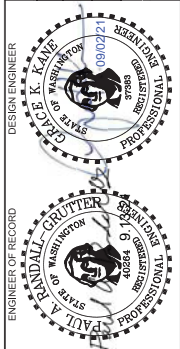
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FEET)	155	200	250	305	360	425	495	570	645	730

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

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

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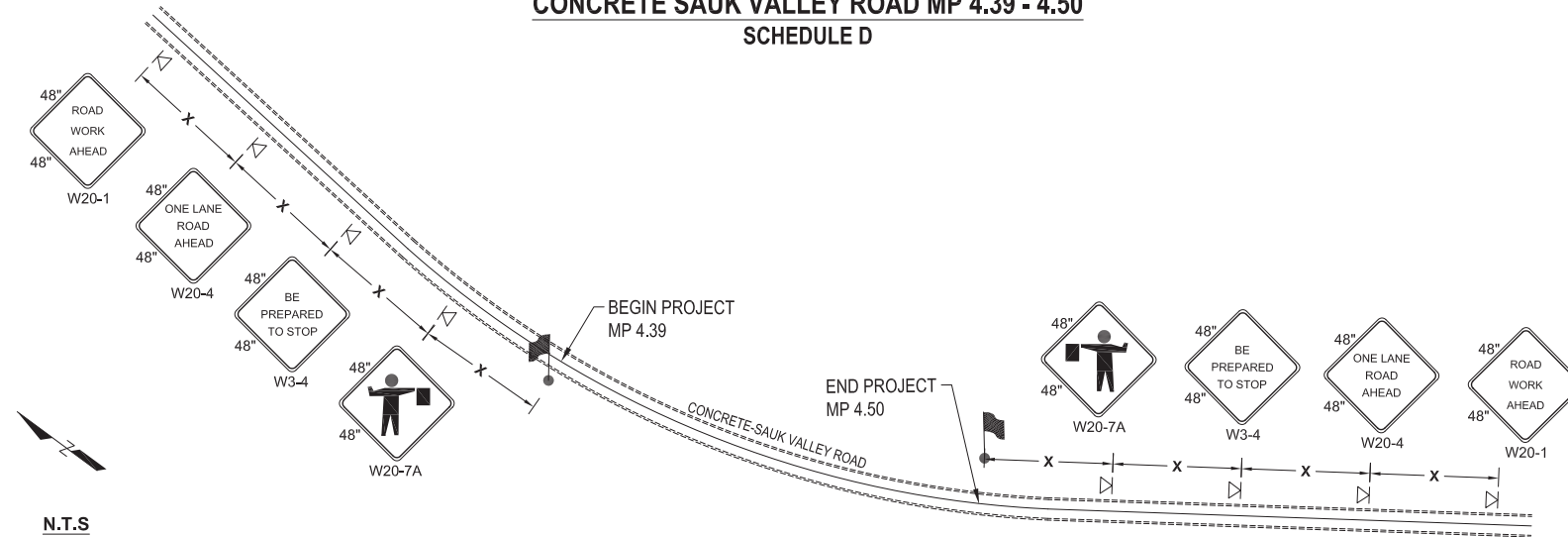


PROJECT NO.: ES07000-12
 FED. AID NO.: HSIP-J005(578)
 DESIGNED BY: JAS
 CHECKED BY: GKK
 DRAWN BY: JAS
 APPROVED BY: PAR
 PROJECT LOCATED NEAR:
 SKAGIT COUNTY, WA

INSTALL/UPGRADE GUARDRAIL WITH REFLECTORS
 WORK ZONE TRAFFIC CONTROL
 SCHEDULE C

1 INCH SCALE BAR
 ADJUST SCALE ACCORDINGLY
 SHEET
10 OF 11

CONCRETE SAUK VALLEY ROAD MP 4.39 - 4.50
SCHEDULE D



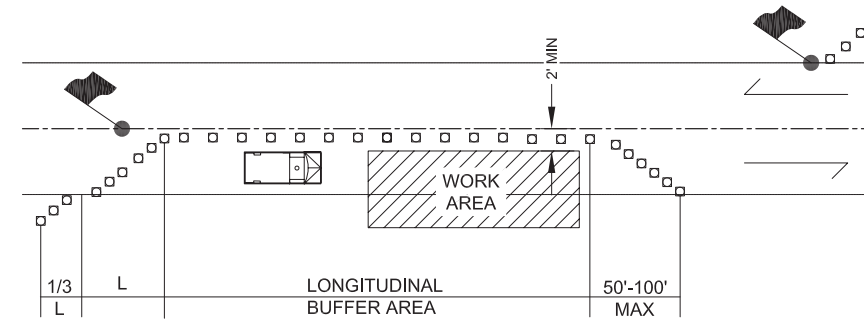
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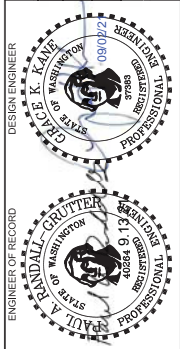
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PROJECT NO.: ES07000-12
FED. AID NO.: HSIP-J005(578)
DESIGNED BY: JAS
CHECKED BY: GKK
DRAWN BY: JAS
APPROVED BY: PAR
PROJECT LOCATED NEAR:
SKAGIT COUNTY, WA

INSTALL/UPGRADE GUARDRAIL WITH REFLECTORS
WORK ZONE TRAFFIC CONTROL
SCHEDULE D

1 INCH SCALE BAR
ADJUST SCALE ACCORDINGLY
SHEET
11 OF 11