










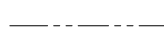













LEGEND




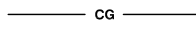
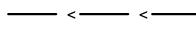
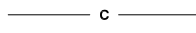
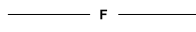


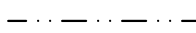

EXISTING FEATURES

-  CONIFER TREE
-  DECIDUOUS TREE
-  INCLINOMETER
-  CULVERT
-  UTILITY POLE
-  TELEPHONE RISER
-  WATER VALVE
-  MAG NAIL
-  LC REBAR
-  EDGE OF ROAD
-  DITCH
-  DRAINAGE
-  UNDERGROUND WATER
-  UNDERGROUND ABANDONED WATER
-  RELOCATED UNDERGROUND WATERMAIN
-  UNDERGROUND POWER
-  UNDERGROUND TELEPHONE
-  FENCE

SURVEY FEATURES

-  POINT OF CURVATURE
-  POINT OF INTERSECTION
-  POINT OF TANGENT
-  RIGHT OF WAY
-  EXISTING PROPERTY LINE

NEW CONSTRUCTION FEATURES

-  CONSTRUCTION NOTE
-  DESIGN ROADWAY CENTERLINE ALIGNMENT
-  HIGH VISIBILITY SILT FENCE
-  CLEARING AND GRUBBING
-  DITCH FLOW LINE
-  CUT
-  FILL
-  LEWIS COUNTY PROPERTY
-  NEW CULVERT
-  EDGE OF PAVEMENT
-  SAWCUT

GENERAL NOTES


1. SURVEY HORIZONTAL DATUM; WASHINGTON STATE PLANE, SOUTH GRID, NAD 83/91
VERTICAL DATUM: NAVD '88
2. CONTRACTOR TO MAINTAIN INGRESS AND EGRESS FROM THE PROJECT SITE, AND PRIVATE PROPERTY DRIVEWAYS DURING CONSTRUCTION.

SUMMARY OF QUANTITIES

ITEM NO.	STD. ITEM NO.	ITEM DESCRIPTION	TOTAL QUANTITY	UNIT
PREPARATION				
1	0001	MOBILIZATION	LUMP SUM	LUMP SUM
2	0025	CLEARING AND GRUBBING	0.42	ACRE
3	S.P.	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
GRADING				
4	S.P.	ROADWAY EXCAVATION INCL. HAUL	4,500	C.Y.
5	0431	GRAVEL BORROW INCL. HAUL	6,030	TON
DRAINAGE				
6	1086	QUARRY SPALLS	2,940	TON
7	S.P.	CL. IV REINF. CONC. CULV. PIPE 18 IN. DIAM.	58	L.F.
SURFACING				
8	5100	CRUSHED SURFACING BASE COURSE	620	TON
9	5120	CRUSHED SURFACING TOP COURSE	240	TON
10	S.P.	SHOULDER FINISHING	0.10	MILE
HOT MIX ASPHALT				
11	S.P.	HMA CL. 1/2 IN. PG 58H-22 FIBER REINFORCED	170	TON
EROSION CONTROL AND ROADSIDE PLANTING				
12	6403	ESC LEAD	7	DAY
13	S.P.	SEEDING AND MULCHING	0.24	ACRE
14	6490	EROSION / WATER POLLUTION CONTROL	EST.	DOLLAR
15	6635	HIGH VISIBILITY SILT FENCE	365	L.F.
16	S.P.	PLANTING MITIGATION CONSTRUCTION	LUMP SUM	LUMP SUM
TRAFFIC				
17	6781	TEMPORARY BARRIER	374	L.F.
18	6806	PAINT LINE	850	L.F.
19	6832	FLEXIBLE GUIDE POST	12	EA.
20	6842	TEMPORARY STOP LINE - SHORT DURATION	20	L.F.
21	6971	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM	LUMP SUM
22	6980	FLAGGERS	350	HR
23	6982	CONSTRUCTION SIGNS CLASS A	96	S.F.
24	6992	OTHER TRAFFIC CONTROL LABOR	30	HR
OTHER ITEMS				
25	S.P.	STRUCTURE EXCAVATION CLASS B INCL. HAUL	560	C.Y.
26	7008	SHORING OR EXTRA EXCAVATION CLASS B	1,080	S.F.
27	S.P.	DECOMMISSION WELL	LUMP SUM	LUMP SUM
28	7480	ROADSIDE CLEANUP	1	DOLLAR
29	7530	CONSTRUCTION GEOTEXTILE FOR SEPARATION	1,000	S.Y.
30	7535	CONSTRUCTION GEOTEXTILE FOR DITCH LINING	15	S.Y.
31	7725	REIMBURSEMENT FOR THIRD PARTY DAMAGE	EST.	DOLLAR
32	7736	SPCC PLAN	LUMP SUM	LUMP SUM

4/14/2023 9:41 AM

S:\Engineer\Design\Little Hanaford Rd MP 4.1 Drawings\Little Hanaford Rd Slide MP 4.1_VRA2.dwg



2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : WRA
DRAWN BY : WRA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

LITTLE HANAFORD RD MP 4.1 SLIDE REPAIR

COUNTY ROAD PROJECT NO:
90-22F171510410

LEGEND AND SUMMARY OF QUANTITIES

SHEET

2 OF 12



WESLEY R. ANDERSON, P.E.
SENIOR ENGINEER / DESIGN

Date: 04/14/2023



4/14/2023 10:57 AM

S:\Engineer\Design\Little Hanaford Rd MP 4.1 Drawings\Little Hanaford Rd Slide MP 4.1_WRA2.dwg

DROP, DALE S
PARCEL # 020891002000

DROP, DALE EXEC
PARCEL # 021346002000

VERD, KALE
PARCEL # 021347003000

GENERAL NOTES

THE TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLAN IS A LIVING DOCUMENT AND SHALL BE UPDATED BY THE CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) TO REFLECT FIELD CONDITIONS.

SEE SHEET 5 OF 12 FOR DESIGN ROADWAY CENTERLINE ALIGNMENT INFORMATION

CONSTRUCTION NOTES

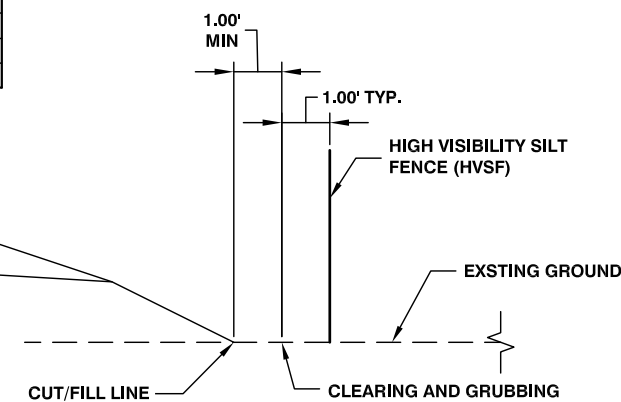
- 1 STA 100+35.65, 2.66' LT TO STA 100+35.65, 11.66' LT
SAWCUT LEFT LANE - 9 L.F.
SAWCUT INCIDENTAL TO ROADWAY EXCAVATION INCL. HAUL
- 2 STA 100+35.65, 2.66' LT TO STA 103+57.14, 3.00' RT
SAWCUT - 325 L.F.
SAWCUT INCIDENTAL TO ROADWAY EXCAVATION INCL. HAUL
- 3 STA 101+49.50, 0.0' RT TO STA 101+49.50, 11.66' RT
SAWCUT RIGHT LANE - 12 L.F.
SAWCUT INCIDENTAL TO ROADWAY EXCAVATION INCL. HAUL
- 4 STA 100+21.55, 22.70' LT TO STA 103+71.01, 23.77' LT
REMOVING WIRE FENCE - 329 L.F.
SEE SPECIAL PROVISION REMOVAL OF STRUCTURES AND OBSTRUCTIONS
- 5 HIGH VISIBILITY SILT FENCE - 365 L.F.
INSTALL PER WSDOT STANDARD PLAN I-30.17
SEE CLEARING AND GRUBBING AND HVSF LAYOUT DETAIL THIS SHEET
- 6 PROTECT EXISTING 2 IN. WATERLINE (CITY OF CENTRALIA)
APPROXIMATE LOCATION
- 7 REMOVE 40 L.F. OF EXISTING 18 IN. DIAM. CONC. PIPE
SEE SPECIAL PROVISION REMOVAL OF STRUCTURES AND OBSTRUCTIONS
STRUCTURE EXCAVATION CLASS B INCL. HAUL FOR EXISTING CULVERT
REMOVAL IS INCLUDED IN ROADWAY EXCAVATION INCL. HAUL QUANTITY FOR BUTTRESS EXCAVATION
- 8 DECOMMISSION WELL
- 9 ABANDONED 18-INCH DIAM. ASBESTOS CONCRETE WATERLINE.
ASBESTOS CONCRETE PIPE EXPOSED BY EXCAVATION SHALL BE
REMOVED AND DISPOSED OF IN ACCORDANCE WITH STANDARD
SPECIFICATIONS 1-07.5(4)
SEE SPECIAL PROVISION REMOVAL OF STRUCTURES AND OBSTRUCTIONS
- 10 PROTECT UNDERGROUND PHONE AND POWER UTILITY. UTILITIES TO
REMAIN.
- 11 PROTECT 10 IN. DIAM. WATERLINE (CITY OF CENTRALIA). TO REMAIN.
- 12 STA 103+57.14, 11.76' LT TO STA 103+57.14, 11.01' RT
SAWCUT FULL WIDTH OF ROADWAY - 23 L.F.
SAWCUT INCIDENTAL TO ROADWAY EXCAVATION INCL. HAUL

TESC LEGEND

	DESIGN ROADWAY CENTERLINE ALIGNMENT		HIGH VISIBILITY SILT FENCE
	EXISTING ROW		CUT
	EXISTING PROPERTY LINE		FILL
	EXISTING EDGE OF ROAD		CLEARING AND GRUBBING
	DITCH		LEWIS COUNTY PROPERTY
	DRAINAGE		ABANDONED ASBESTOS CONCRETE (AC) 18 IN. DIA. WATER MAIN.
	SAWCUT		RELOCATED 10 IN. WATERLINE (CITY OF CENTRALIA)
	EXISTING CULVERT (TO BE REMOVED)		UNDERGROUND POWER (LEWIS COUNTY PUD)
	EXISTING CONIFER TREE		UNDERGROUND TELEPHONE (LUMENS)
	EXISTING DECIDUOUS TREE		EXISTING FENCE
	EXISTING INCLINOMETER		
	TREE TO BE REMOVED		

HORIZONTAL: 1" = 20'
SCALE IS FOR 24" X 36" SHEETS

QUANTITY TABULATION - SITE PREPARATION			
STA	ITEM	QTY	UNIT
STA 100+30.42 - STA 103+60.61 LT	CLEARING AND GRUBBING	0.31	ACRE
STA 100+90.52 - STA 104+25.20 RT	CLEARING AND GRUBBING	0.11	ACRE



CLEARING AND GRUBBING AND HVSF LAYOUT DETAIL

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : WRA
DRAWN BY : WRA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

**LITTLE HANAFORD RD MP 4.1
SLIDE REPAIR**

COUNTY ROAD PROJECT NO:
90-22F171510410
SITE PREPARATION/UTILITY/TESC PLAN

SHEET
4
OF
12

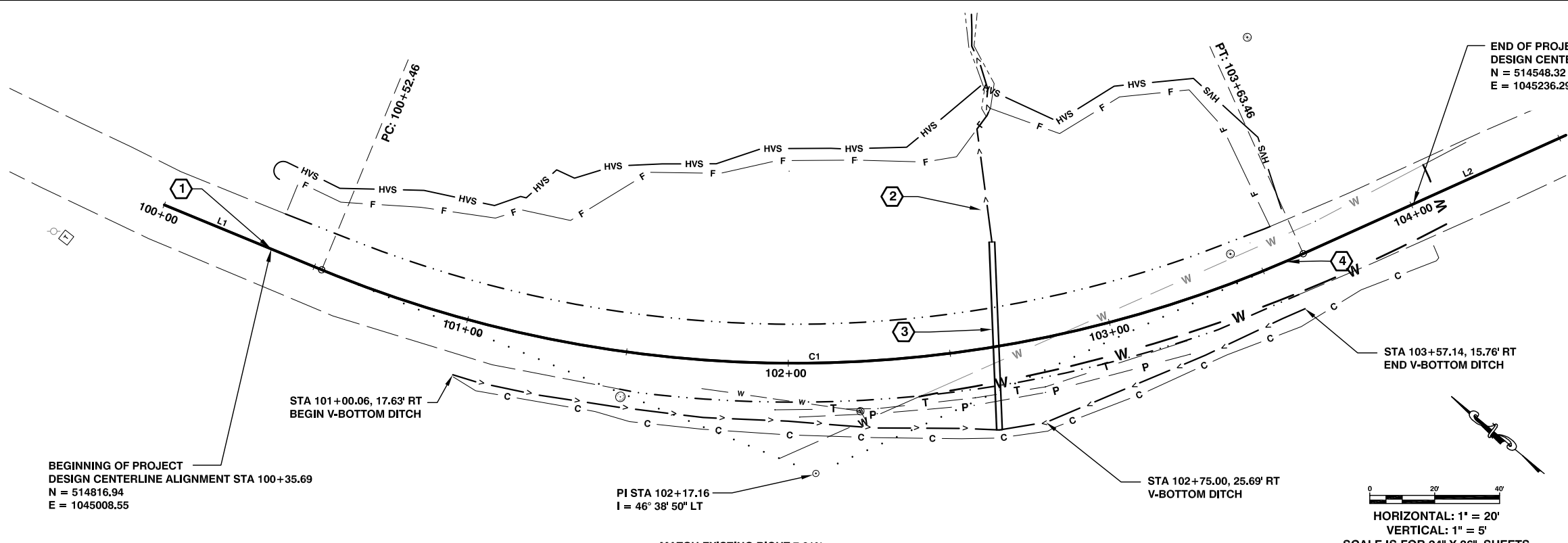


WESLEY R. ANDERSON, P.E.
SENIOR ENGINEER / DESIGN
Date: 04/14/2023



4/14/2023 10:58 AM

S:\Engineer\Design\Little Hanaford Rd MP 4.1 Drawings\Little Hanaford Rd Slide MP 4.1_VRA2.dwg



BEGINNING OF PROJECT
 DESIGN CENTERLINE ALIGNMENT STA 100+35.69
 N = 514816.94
 E = 1045008.55

PI STA 102+17.16
 I = 46° 38' 50" LT

HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 5'
 SCALE IS FOR 24" X 36" SHEETS

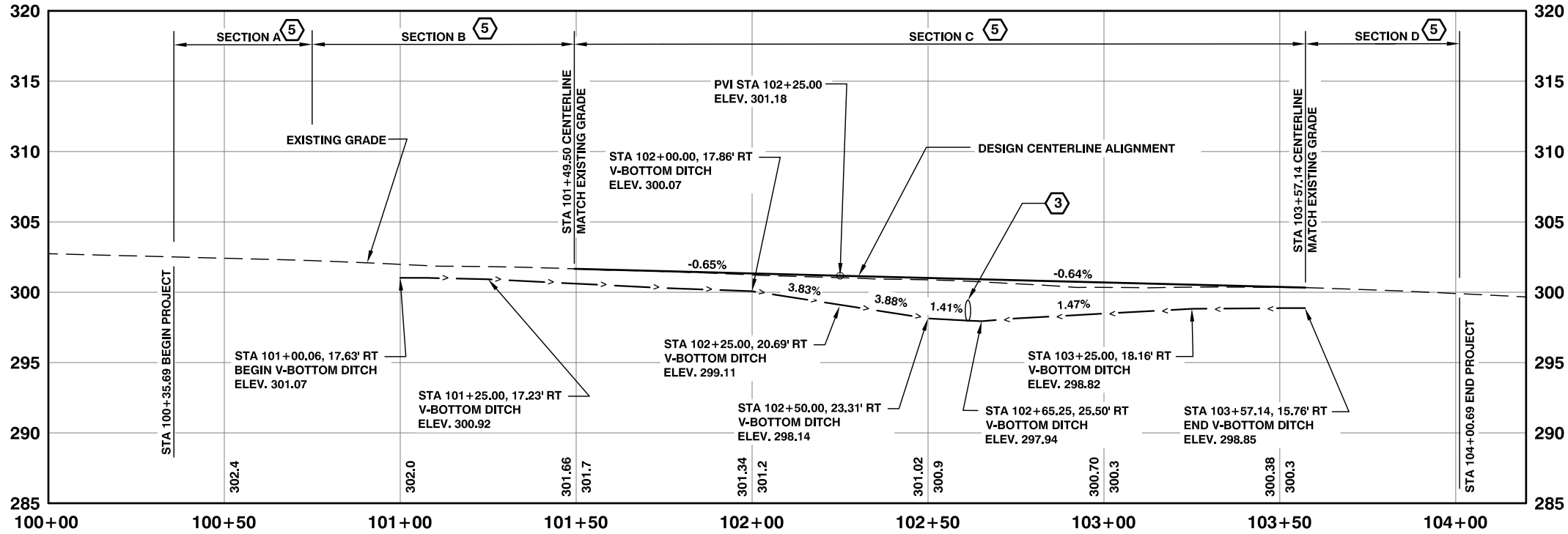
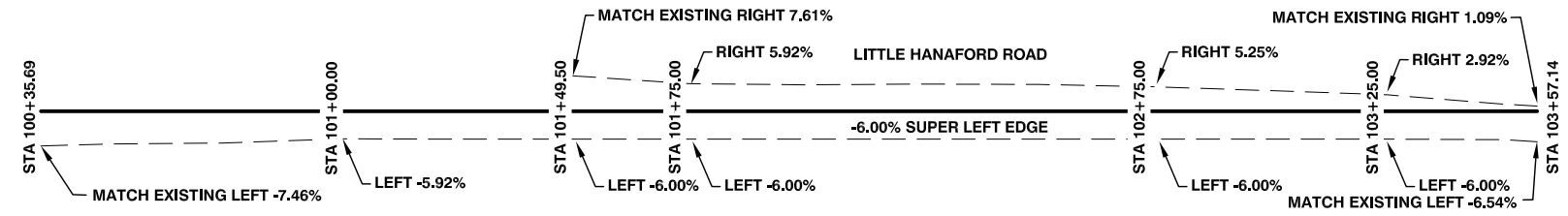
- CONSTRUCTION NOTES**
- ① STA 100+35.69
BEGIN ROADWAY PAVEMENT IMPROVEMENTS
SEE ROADWAY SECTIONS SHEET 3 OF 12
 - ② STA 102+68.67, 31.98' LT TO STA 102+70.51, 66.80' LT
5 TONS QUARRY SPALLS
DRAINAGE DITCH
SEE DETAILS ON SHEET 8 OF 12
 - ③ STA 102+64.32
CL. IV REINF. CONC. CULV. PIPE 18 IN. DIAM - 58 L.F.
OUTLET INV. = EL 291.76 (STA 102+68.67, 31.97' LT)
INLET INV. = EL 297.94 (STA 102+61.35, 25.50' RT)
 - ④ STA 103+57.14
END ROADWAY PAVEMENT IMPROVEMENTS
SEE ROADWAY SECTIONS SHEET 3 OF 12
 - ⑤ SEE ROADWAY SECTION SHEET 3 OF 12

LINE TABLE: DESIGN CENTERLINE ALIGNMENT

LINE #	LENGTH	DIRECTION
L1	52.46'	S15° 39' 01"E
L2	113.12'	S62° 17' 51"E

CURVE TABLE: DESIGN CENTERLINE ALIGNMENT

CURVE #	R	L	D	T
C1	382.00'	311.01'	014° 59' 56"	164.70'



ROADWAY EXCAVATION INCL. HAUL 500 C.Y.
 GRAVEL BORROW INCL. HAUL 6,000 TON
 QUARRY SPALLS 435 TON

Lewis County
 Department of Public Works
 2025 N. E. KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY : WRA
 DRAWN BY : WRA
 CHECKED BY :
 DATE :

NO.	DATE	REVISION	BY	APP.

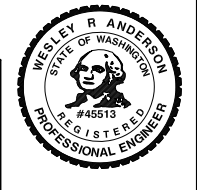
**LITTLE HANAFORD RD MP 4.1
 SLIDE REPAIR**

COUNTY ROAD PROJECT NO:
 90-22F171510410
 DESIGN ROADWAY
 PLAN & PROFILE

SHEET
5
 OF
12

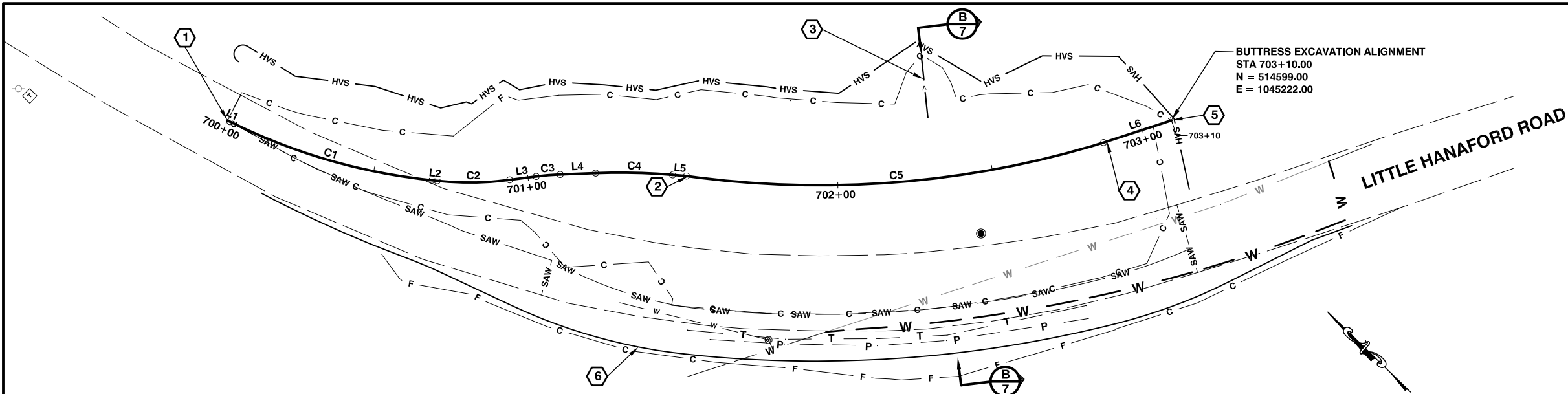


WESLEY R. ANDERSON, P.E.
 SENIOR ENGINEER / DESIGN
 Date: 04/14/2023



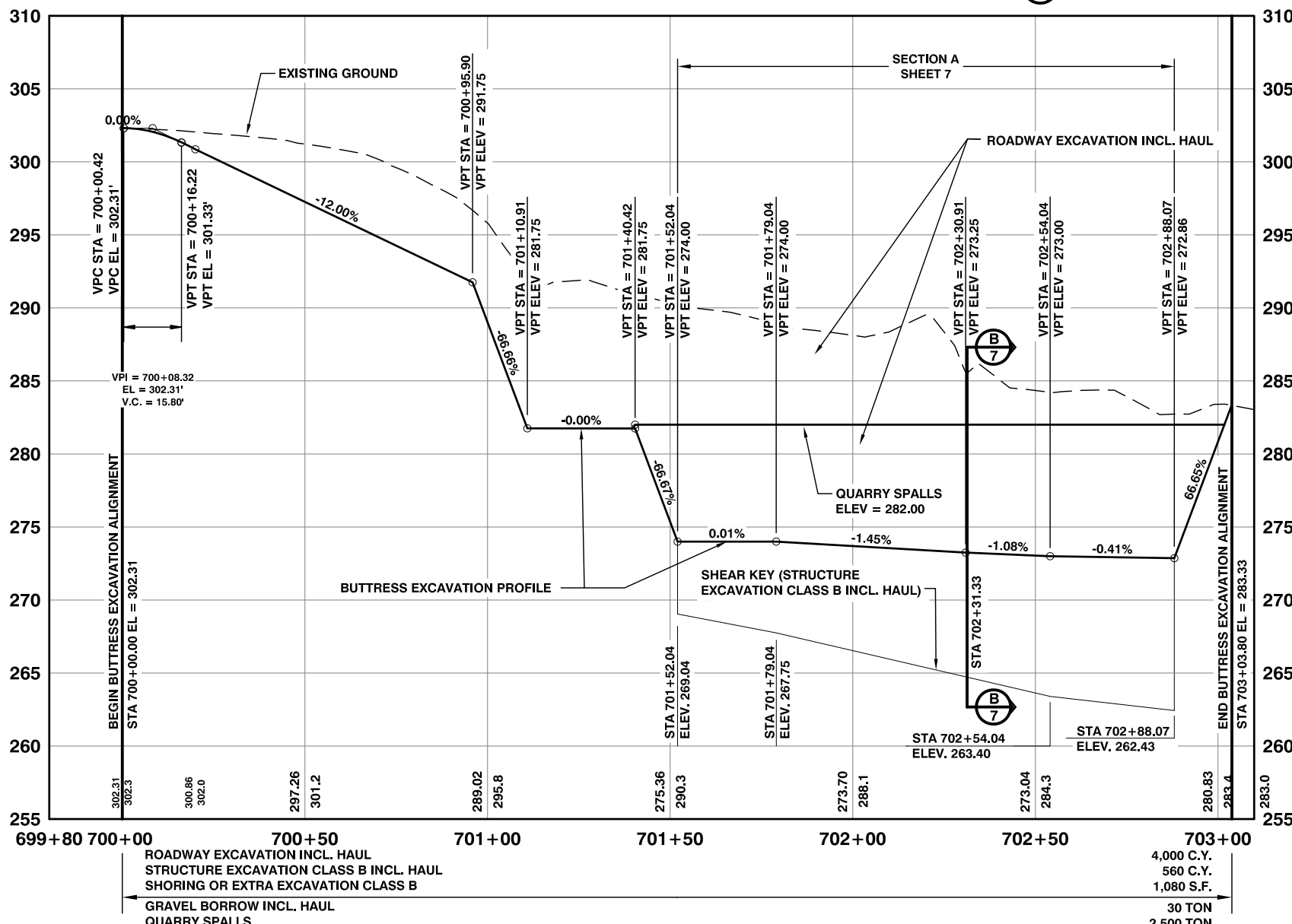
4/14/2023 11:01 AM

S:\Engineer\Design\Little Hanaford Rd MP 4.1 Drawings\Little Hanaford Rd Slide MP 4.1_WRA2.dwg



- CONSTRUCTION NOTES**
- ① STA 700+00.00 (BUTTRISS EXCAVATION ALIGNMENT) = STA 100+35.69, 2.47' LT DESIGN CENTERLINE ALIGNMENT
N: 514817.63
E: 1045010.92
BEGIN HAUL ROAD AND BUTTRISS EXCAVATION
 - ② STA 701+52.04
BEGIN SHEAR KEY EXCAVATION
SEE DETAILS SHEET 7 OF 12
 - ③ STA 702+31.33 LEFT
CONSTRUCT V-NOTCH CHANNEL FROM SHEAR KEY
AT 1.85% GRADE TO DAYLIGHT
SEE DETAILS ON SHEET 7 OF 12
 - ④ STA 702+88.07
END SHEAR KEY EXCAVATION
SEE DETAIL SHEET 7 OF 12
 - ⑤ STA 703+03.80 (BUTTRISS EXCAVATION ALIGNMENT) = STA 103+57.80, 38.19' LT DESIGN CENTERLINE ALIGNMENT
END HAUL ROAD AND BUTTRISS EXCAVATION
 - ⑥ TEMPORARY DETOUR EDGE OF GRAVEL
SEE ROADWAY SECTIONS ON SHEET 3 OF 12

HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'
SCALE IS FOR 24" X 36" SHEETS



LINE TABLE: ALIGNMENTS

LINE #	LENGTH	DIRECTION
L1	0.93	S17° 35' 16"E
L2	1.75	S38° 01' 04"E
L3	8.61	S51° 24' 25"E
L4	11.44	S46° 08' 09"E
L5	4.49	S39° 15' 27"E
L6	22.99	S62° 06' 55"E

CURVE TABLE: ALIGNMENTS

CURVE #	R	L	D	T
C1	190.69	67.99	030° 02' 49"	34.36
C2	100.00	23.37	057° 17' 45"	11.74
C3	84.50	7.77	067° 48' 20"	3.89
C4	206.43	24.78	027° 45' 18"	12.41
C5	310.41	135.76	018° 27' 29"	68.98

LEGEND

ⓑ — DENOTES SECTION DETAIL
⑦ — DENOTES SHEET

ROADWAY EXCAVATION INCL. HAUL
STRUCTURE EXCAVATION CLASS B INCL. HAUL
SHORING OR EXTRA EXCAVATION CLASS B
GRAVEL BORROW INCL. HAUL
QUARRY SPALLS

4,000 C.Y.
560 C.Y.
1,080 S.F.
30 TON
2,500 TON

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : WRA
DRAWN BY : WRA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

**LITTLE HANAFORD RD MP 4.1
SLIDE REPAIR**

COUNTY ROAD PROJECT NO:
90-22F171510410
SHEAR KEY EXCAVATION
PLAN & PROFILE

SHEET
6
OF
12

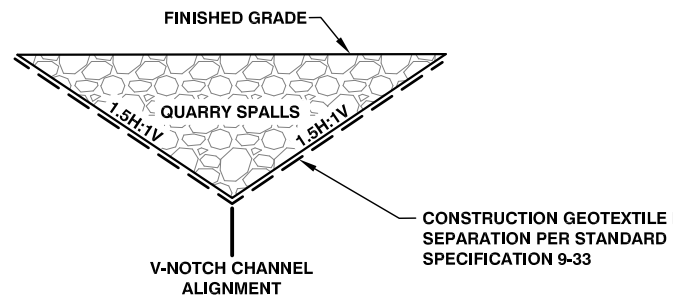


WESLEY R. ANDERSON, P.E.
SENIOR ENGINEER / DESIGN
Date: 04/14/2023



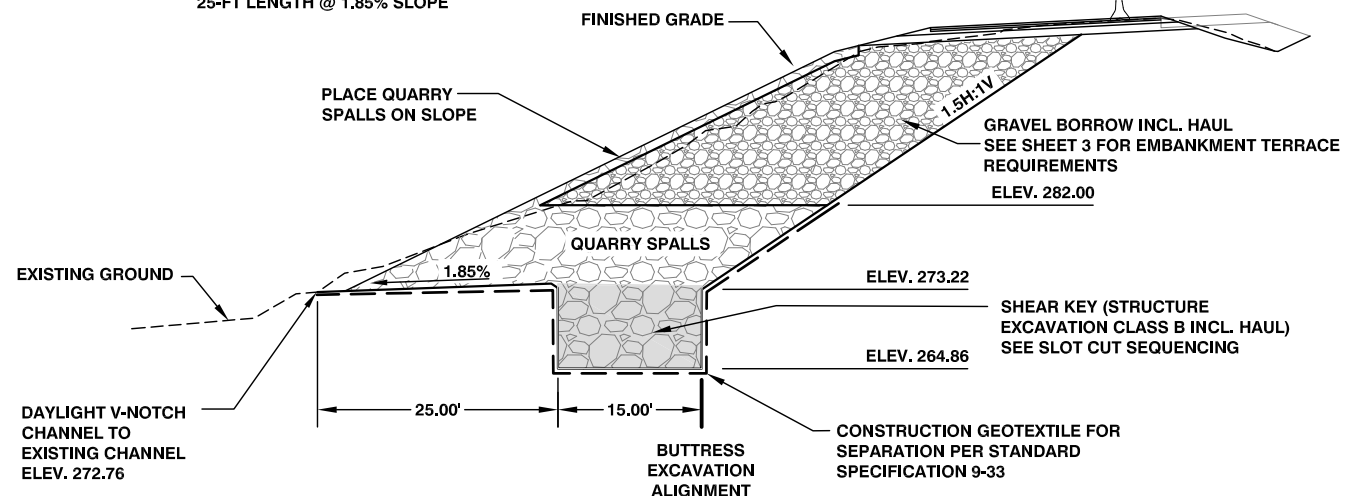
4/14/2023 9:26 AM

S:\Engineer\Design\Little Hanaford Rd MP 4.1 Drawings\Little Hanaford Rd Slide MP 4.1_VRA2.dwg



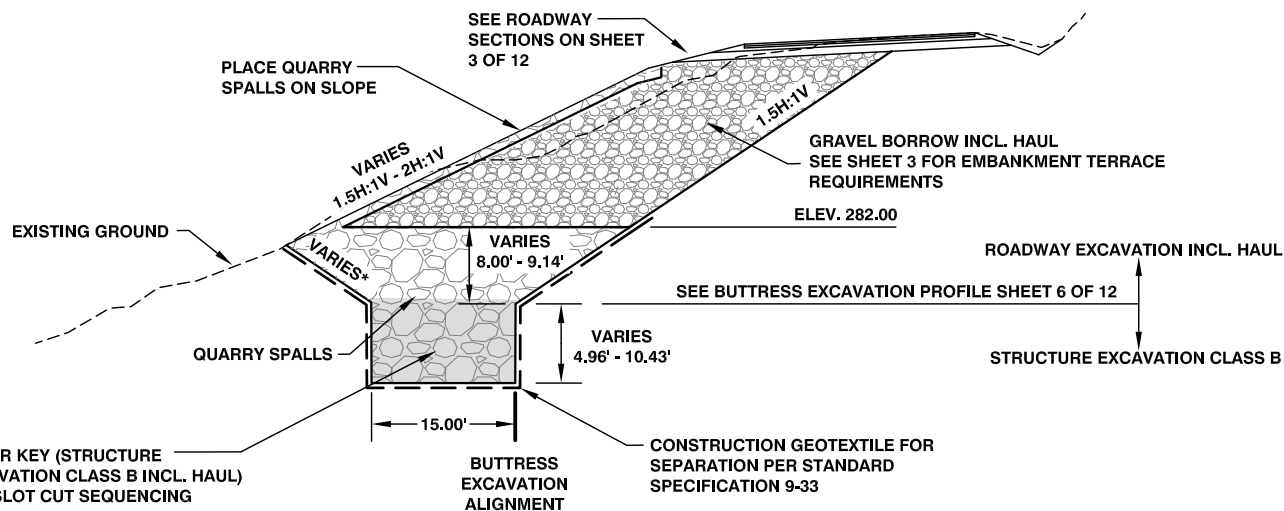
V-NOTCH CHANNEL

STA 702+31.33, 15' LT; ELEV. 273.22
 STA 702+31.33, 40' LT; ELEV. 272.76
 25-FT LENGTH @ 1.85% SLOPE



SECTION B

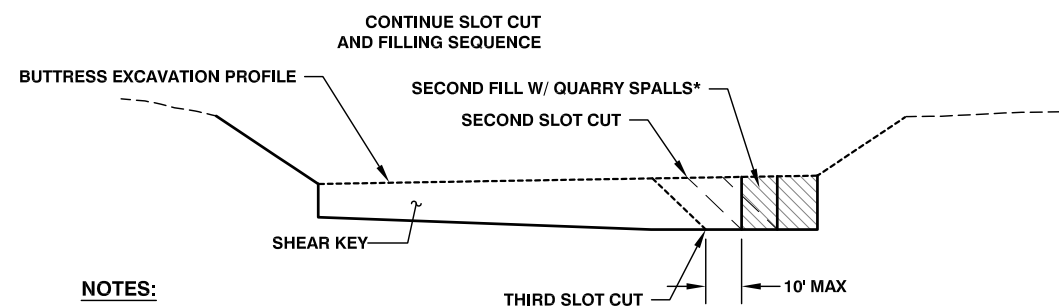
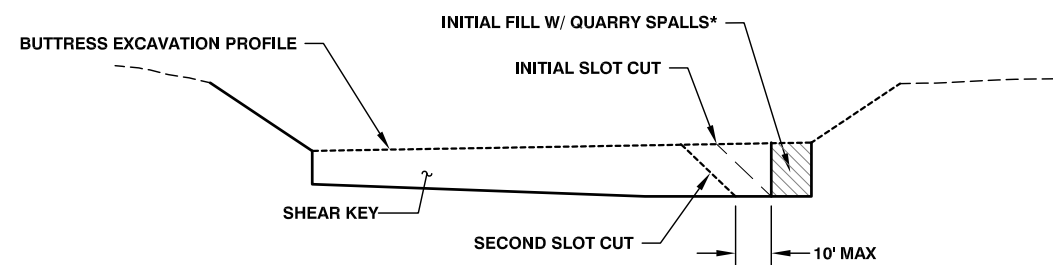
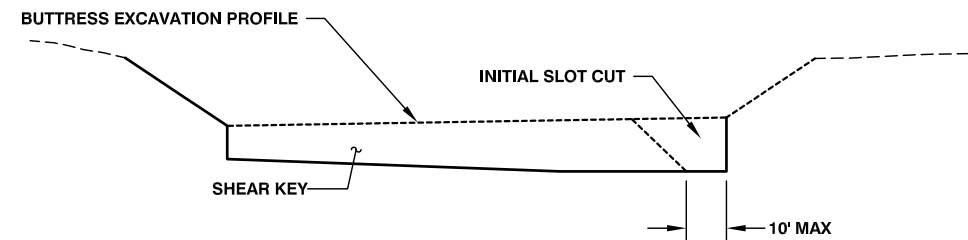
STA 702+31.33



SECTION A

STA 701+52.04 - STA 702+88.07

*SLOPE SHALL NOT BE STEEPER THAN 1.5H:1V



NOTES:

1. CONSTRUCT SLOT CUT SLOPES AT 1.5:1.
2. SLOT CUT MAY BEGIN AT ANY POINT ALONG THE SHEAR KEY EXCAVATION.
3. SEE SPECIAL PROVISIONS 2-09.3(4) FOR SLOT CUT SEQUENCING SUBMITTAL REQUIREMENTS.

SLOT CUT SEQUENCING

NOT TO SCALE

Lewis County
 Department of Public Works
 2025 N. E. KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY : WRA
 DRAWN BY : WRA
 CHECKED BY :
 DATE :

NO.	DATE	REVISION	BY	APP.

**LITTLE HANAFORD RD MP 4.1
 SLIDE REPAIR**

COUNTY ROAD PROJECT NO:
 90-22F171510410

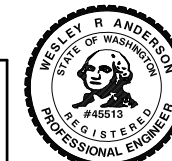
SHEAR KEY DETAILS AND
 SLOT CUTTING

SHEET
7
 OF
12



WESLEY R. ANDERSON, P.E.
 SENIOR ENGINEER / DESIGN

Date: 04/14/2023

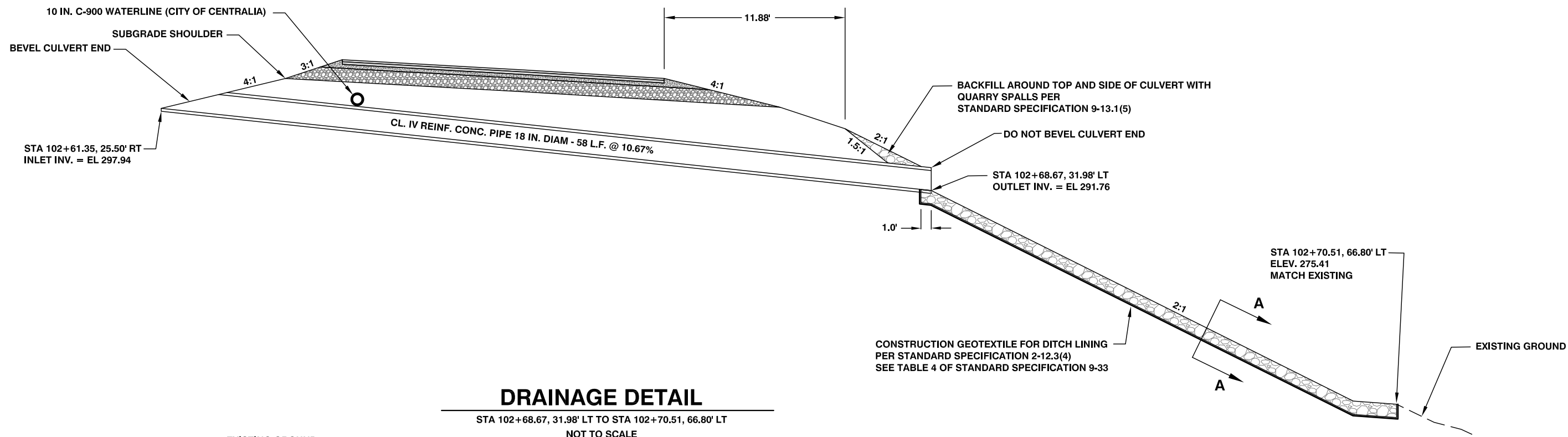


4/14/2023 9:28 AM

S:\Engineer\Design\Little Hanaford Rd MP 4.1 Drawings\Little Hanaford Rd Slide MP 4.1_VRA2.dwg

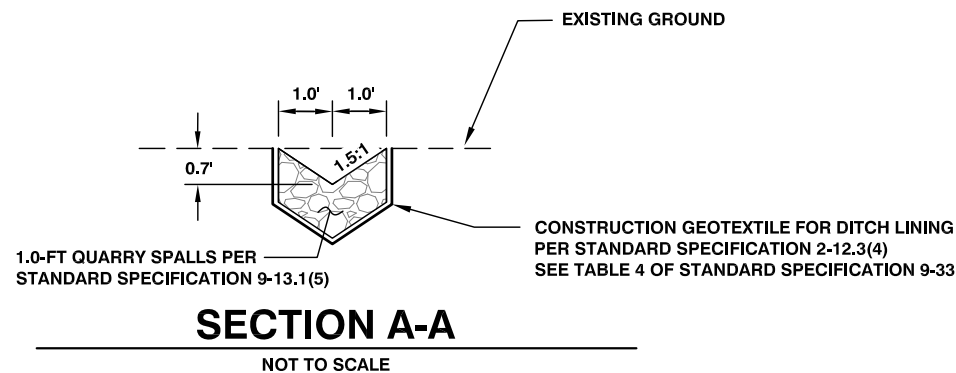
GENERAL NOTES

1. BEVELED CULVERT ENDS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLAN B-70.20.



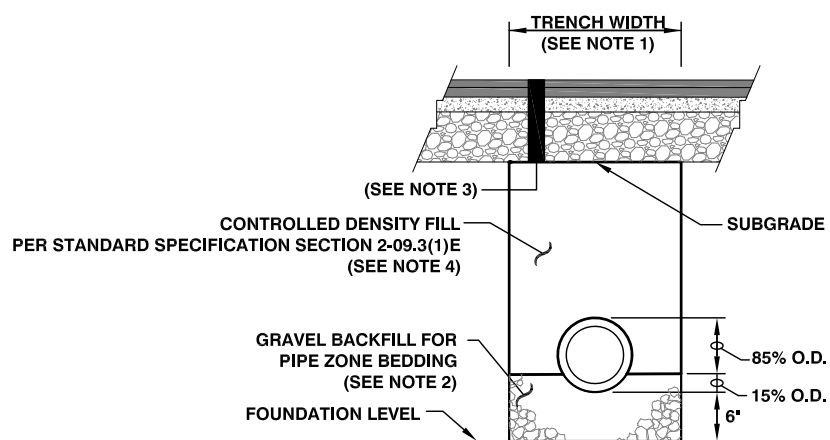
DRAINAGE DETAIL

STA 102+68.67, 31.98' LT TO STA 102+70.51, 66.80' LT
NOT TO SCALE



SECTION A-A

NOT TO SCALE



PIPE ZONE BEDDING AND BACKFILL

NOT TO SCALE

NOTES

1. SEE STANDARD SPECIFICATIONS SECTION 2-09.4 FOR MEASUREMENT OF TRENCH WIDTH.
2. SEE STANDARD SPECIFICATIONS SECTION 9-03.12(3) FOR GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
3. ROADWAY SECTION SHALL BE CONSTRUCTED AFTER CULVERT PIPE INSTALLATION. NO CUTTING OF NEW HMA WILL BE ALLOWED FOR CULVERT INSTALLATION.
4. CONTROLLED DENSITY FILL SHALL BE CONSIDERED INCIDENTAL TO CL. IV REINF. CONC. CULV. PIPE 18 IN. DIAM. PER L.F. (ESTIMATED QUANTITY OF CDF ~25 C.Y. CONTRACTOR TO VERIFY)

2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : WRA
DRAWN BY : WRA
CHECKED BY :
DATE :

NO.	DATE	REVISION	BY	APP.

LITTLE HANAFORD RD MP 4.1
SLIDE REPAIR

COUNTY ROAD PROJECT NO:
90-22F171510410

DETAILS

SHEET

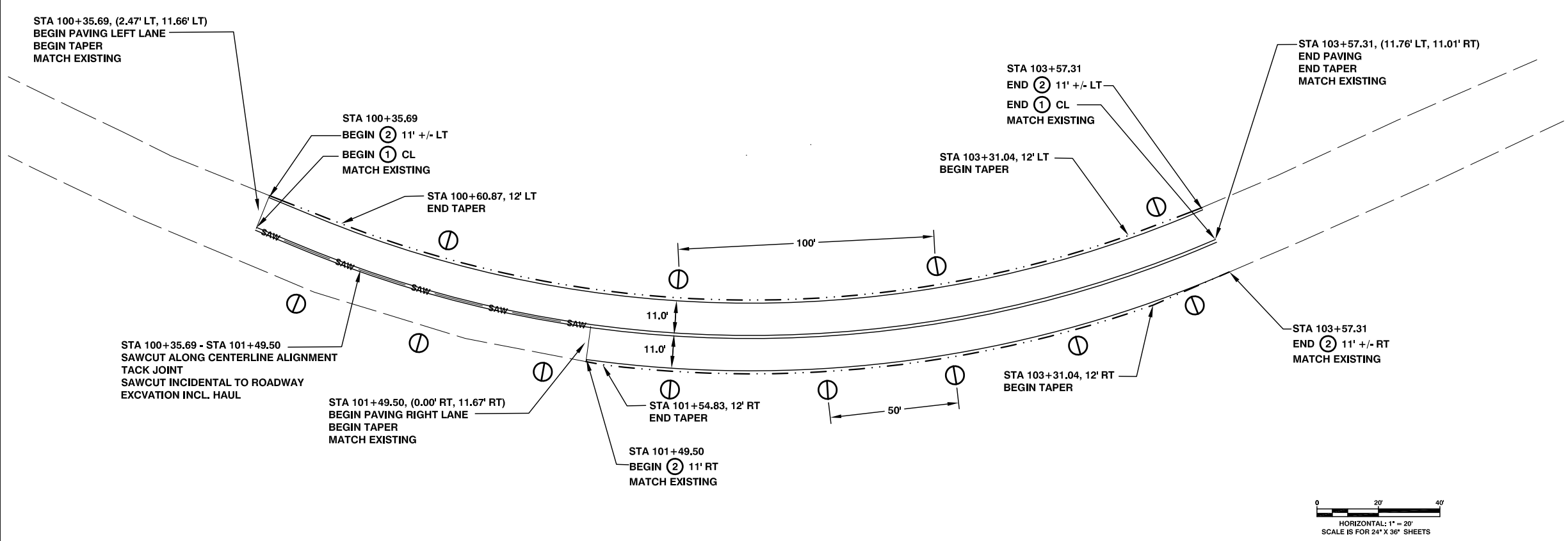
8
OF
12



WESLEY R. ANDERSON, P.E.
SENIOR ENGINEER / DESIGN

Date: 04/14/2023





CHANNELIZATION LEGEND

- ① PAINT LINE - DOUBLE YELLOW CENTERLINE - 320 L.F. PER WSDOT STANDARD PLAN M-20.10
- ② PAINT LINE - EDGE LINE WHITE - 530 L.F. PER WSDOT STANDARD PLAN M-20.10

LEGEND

- ==== DOUBLE YELLOW CENTER LINE
- ===== EDGE LINE WHITE
- ② CHANNELIZATION NOTE
- ① FLEXIBLE GUIDE POST (TYPE WW)

GENERAL NOTES

1. FLEXIBLE GUIDE POST SHALL BE INSTALLED PER WSDOT STANDARD PLANS M-40.10.



Lewis County
 Department of Public Works
 2025 N. E. KRESKY AVE.
 CHEHALIS WA 98532
 PHONE # (360) 740-1123
 FAX # (360) 740-2719

DESIGNED BY : WRA
 DRAWN BY : WRA
 CHECKED BY :
 DATE :

NO.	DATE	REVISION	BY	APP.

**LITTLE HANAFORD RD MP 4.1
 SLIDE REPAIR**

COUNTY ROAD PROJECT NO:
 90-22F171510410
 PAVING & PAVEMENT MARKING PLAN

SHEET
9
 OF
12



WESLEY R. ANDERSON, P.E.
 SENIOR ENGINEER / DESIGN
 Date: 04/14/2023



SIGN SPACING = X (1)		
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.

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

GENERAL NOTES:

1. ALL SIGNS ARE BLACK ON ORANGE.
2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
3. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
4. CONSTRUCTION CLASS A SIGNS SHOWN ON SHEETS 10 AND 11 WILL ONLY BE MEASURED ONCE. TOTAL = 96 S.F.

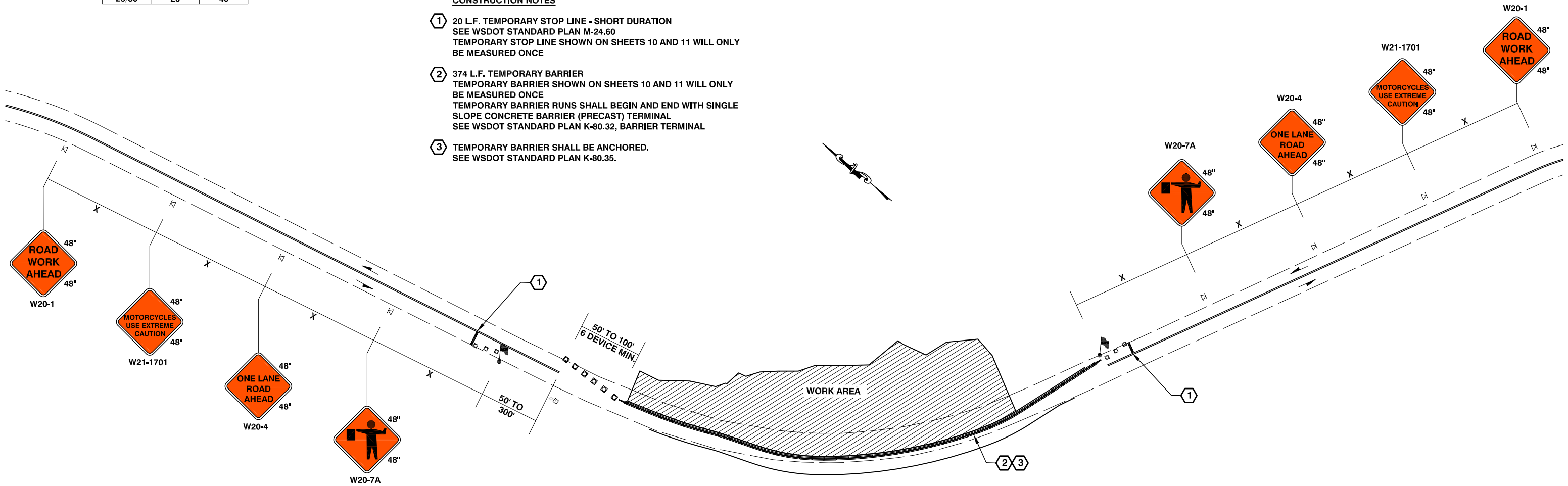
CONSTRUCTION NOTES

- 1 20 L.F. TEMPORARY STOP LINE - SHORT DURATION
SEE WSDOT STANDARD PLAN M-24.60
TEMPORARY STOP LINE SHOWN ON SHEETS 10 AND 11 WILL ONLY BE MEASURED ONCE
- 2 374 L.F. TEMPORARY BARRIER
TEMPORARY BARRIER SHOWN ON SHEETS 10 AND 11 WILL ONLY BE MEASURED ONCE
TEMPORARY BARRIER RUNS SHALL BEGIN AND END WITH SINGLE SLOPE CONCRETE BARRIER (PRECAST) TERMINAL
SEE WSDOT STANDARD PLAN K-80.32, BARRIER TERMINAL
- 3 TEMPORARY BARRIER SHALL BE ANCHORED.
SEE WSDOT STANDARD PLAN K-80.35.

LEGEND

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- TEMPORARY CONCRETE BARRIER
- TEMPORARY STOP LINE

CONSTRUCTION CLASS A SIGNS



ONE LANE, TWO WAY TRAFFIC CONTROL WITH FLAGGERS

NOT TO SCALE

CONSTRUCTION CLASS A SIGNS

SIGN SPACING = X (1)		
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.

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

GENERAL NOTES:

1. ALL SIGNS ARE BLACK ON ORANGE.
2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
3. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
4. CONSTRUCTION CLASS A SIGNS SHOWN ON SHEETS 10 AND 11 WILL ONLY BE MEASURED ONCE. TOTAL = 96 S.F.

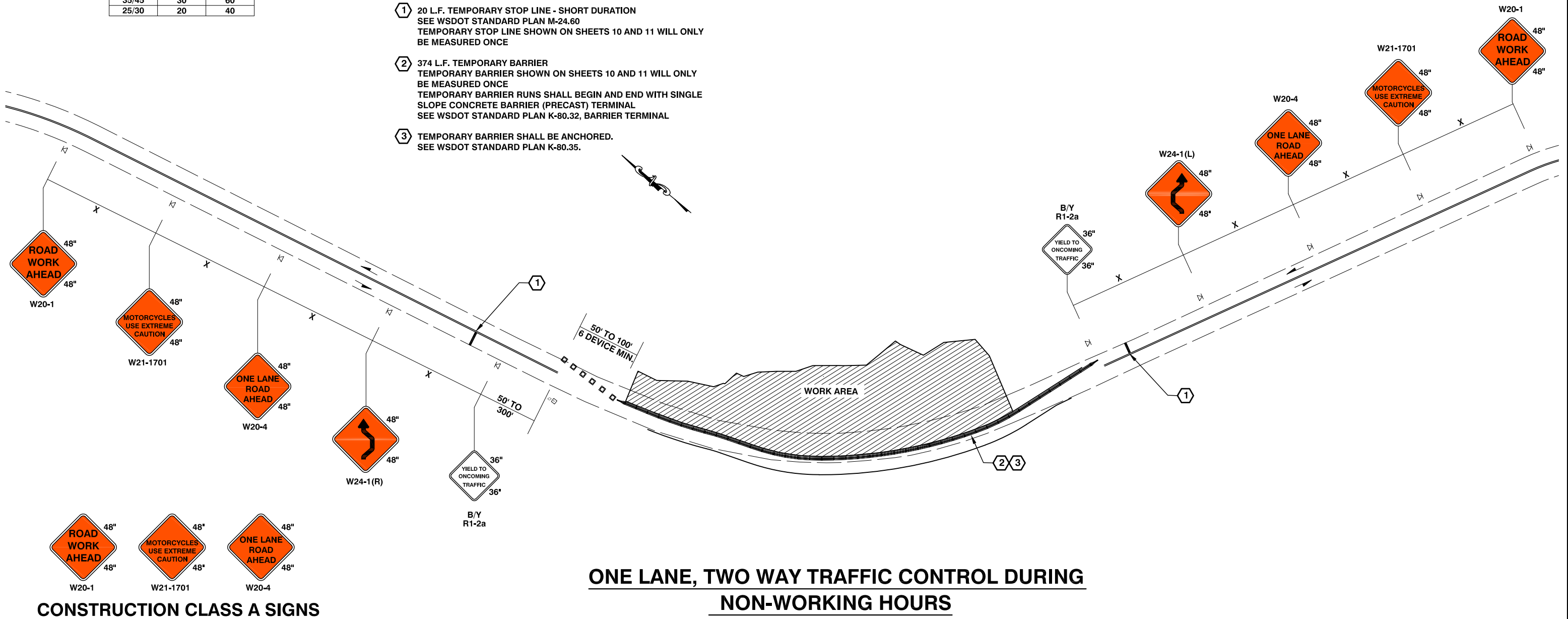
CONSTRUCTION NOTES

- 1 20 L.F. TEMPORARY STOP LINE - SHORT DURATION
SEE WSDOT STANDARD PLAN M-24.60
TEMPORARY STOP LINE SHOWN ON SHEETS 10 AND 11 WILL ONLY BE MEASURED ONCE
- 2 374 L.F. TEMPORARY BARRIER
TEMPORARY BARRIER SHOWN ON SHEETS 10 AND 11 WILL ONLY BE MEASURED ONCE
TEMPORARY BARRIER RUNS SHALL BEGIN AND END WITH SINGLE SLOPE CONCRETE BARRIER (PRECAST) TERMINAL
SEE WSDOT STANDARD PLAN K-80.32, BARRIER TERMINAL
- 3 TEMPORARY BARRIER SHALL BE ANCHORED.
SEE WSDOT STANDARD PLAN K-80.35.

LEGEND

- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- TEMPORARY CONCRETE BARRIER
- TEMPORARY STOP LINE

CONSTRUCTION CLASS A SIGNS

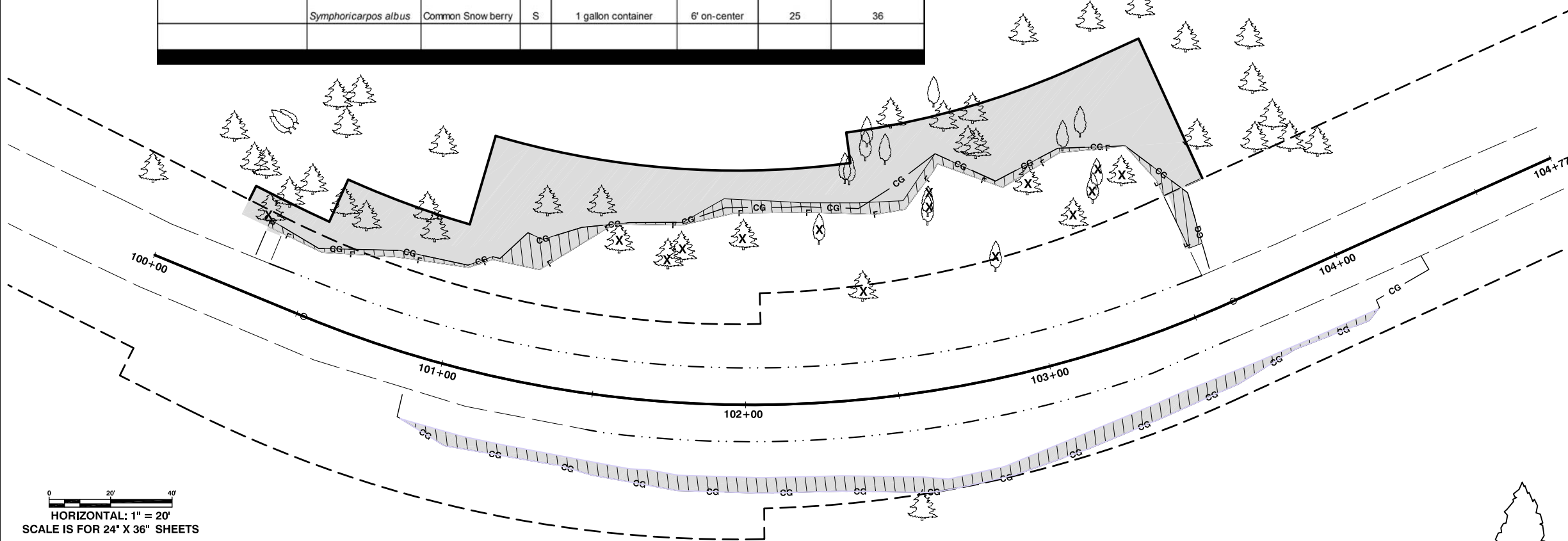


**ONE LANE, TWO WAY TRAFFIC CONTROL DURING
NON-WORKING HOURS**

NOT TO SCALE

NO.	DATE	REVISION	BY	APP.

Planting Zone	Scientific Name	Common Name	Type	Size of Plants (Material)	Planting Density (Spacing)	Proportion of Planting in Strata (%)	Number of Plants
Zone 1	<i>Pseudotsuga menziesii</i>	Douglas Fir	T	2 gallon container	12' on-center	50	24
area 6,898 sq ft	<i>Acer macrophyllum</i>	Big-Leaf Maple	T	2 gallon container	12' on-center	25	12
	<i>Thuja plicata</i>	Western Red Cedar	T	2 gallon container	12' on-center	25	12
	<i>Oemleria cerasiformis</i>	Indian Plum	S	1 gallon container	6' on-center	25	36
	<i>Acer circinatum</i>	Vine Maple	S	1 gallon container	6' on-center	25	36
	<i>Sambucus racemosa</i>	Red Elderberry	S	1 gallon container	6' on-center	25	36
	<i>Symphoricarpos albus</i>	Common Snow berry	S	1 gallon container	6' on-center	25	36



PLANTING NOTES:

ALL PLANT MATERIAL SHALL BE NURSERY GROWN STOCK. CONTAINER PLANT MATERIAL SHALL BE WELL-ROOTED IN POT.

PLANTING AREAS SHALL BE STAKED BY CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO PLANTING.

NO PLANT MATERIAL SHALL BE PLANTED UNTIL IT HAS BEEN INSPECTED AND APPROVED FOR PLANTING BY THE ENGINEER PER STANDARD SPECIFICATION 8-02.3(B).

PLANT MATERIAL SHALL BE STORED AND HANDLED PER SECTION 8-02.3(B) AND 9-14.7(3) OF THE STANDARD AND SPECIAL PROVISIONS.

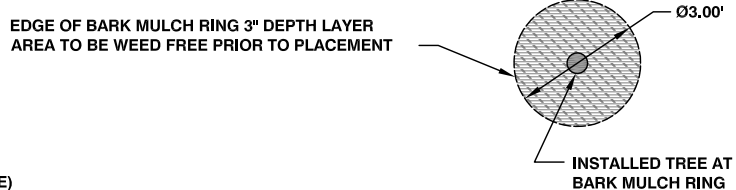
PLANT MATERIAL SHALL BE INSTALLED PER SECTION 8-02.3(B) OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

PLANTS TO BE RANDOMLY MIXED WITHIN DESIGNATED PLANT GROUPS AS APPROVED BY THE ENGINEER UNLESS SPECIFIED OTHERWISE.

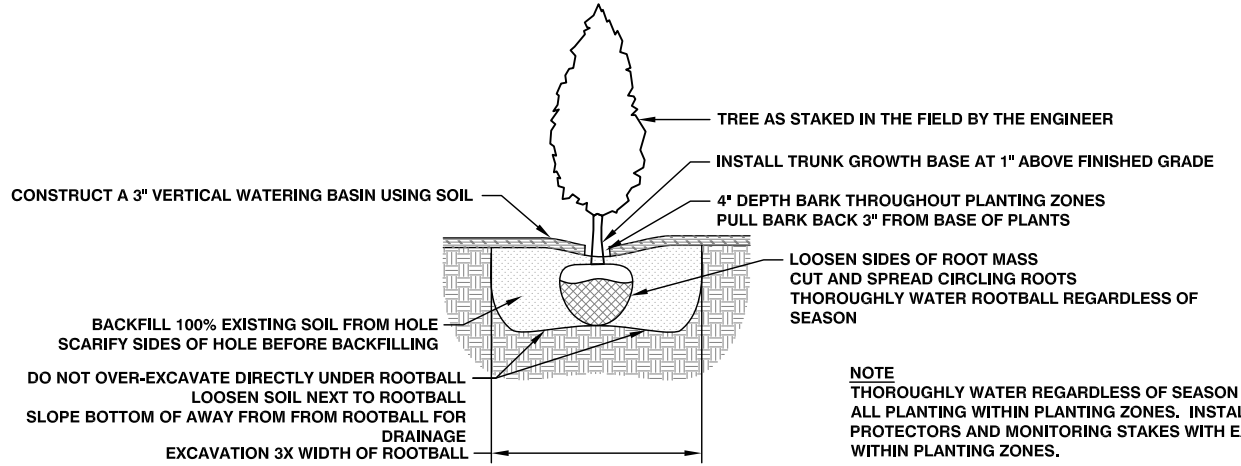
0 20' 40'
HORIZONTAL: 1" = 20'
SCALE IS FOR 24" X 36" SHEETS

LEGEND

- DESIGN ROADWAY CENTERLINE ALIGNMENT
- EXISTING ROW
- EXISTING EDGE OF ROAD
- NEW EDGE OF ROAD
- 🌲 EXISTING CONIFER TREE
- 🌳 EXISTING DECIDUOUS TREE
- F — F — F — F — FILL
- CG — CG — CG — CLEARING AND GRUBBING
- LEWIS COUNTY PROPERTY
- ✕ TREE REMOVAL
- ▨ SEEDING AND MULCHING (0.24 ACRE)
- PLANTING AREA (6892.28 SQ. FT.)



BARK MULCH RING DETAIL
NOT TO SCALE



CONTAINER PLANTING DETAIL
NOT TO SCALE

NOTE
THOROUGHLY WATER REGARDLESS OF SEASON
ALL PLANTING WITHIN PLANTING ZONES. INSTALL PLANT PROTECTORS AND MONITORING STAKES WITH EACH PLANT WITHIN PLANTING ZONES.

4/14/2023 11:14 AM

S:\Engineer\Design\Little Hanaford Rd MP 4.1 Drawings\Little Hanaford Rd Slide MP 4.1_VRA2.dwg

Lewis County
Department of Public Works
2025 N. E. KRESKY AVE.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : RAW
DRAWN BY : RAW
CHECKED BY :
DATE : 10/25/2022

NO.	DATE	REVISION	BY	APP.

LITTLE HANAFORD RD MP 4.1
SLIDE REPAIR

COUNTY ROAD PROJECT NO:
90-22F171510410
PLANTING PLAN

SHEET
12
OF
12



WESLEY R. ANDERSON, P.E.
SENIOR ENGINEER / DESIGN
Date: 04/14/2023

