GENERAL CONSTRUCTION NOTES

1. All erosion control devices built in accordance with ODOT standard drawings specified in the contract.
2. Excavator shall conform to the provisions of OR-RD 4-07.
3. Where applicable, all ditchwork and backfill shall conform to the current Deschutes County and ODOT standards and specifications requirements.
4. Contractor is required to notify the County to inspect the ditchwork and backfill, and to conduct all water and soil tests prior to backfilling.
5. All excavations shall be backfilled by the Contractor in accordance with ODOT and Deschutes County standards and specifications requirements.
6. Excavations shall be backfilled by the Contractor in accordance with ODOT and Deschutes County standards and specifications requirements.
7. The Contractor shall verify the location and elevation of all existing utilities.
8. The Contractor shall provide all necessary temporary utilities to the Design Engineer, and all necessary temporary utility modifications shall be completed prior to excavation.
9. The Contractor shall verify the location and elevation of all existing utilities.
10. All equipment and materials shall be backfilled by the Contractor in accordance with ODOT and Deschutes County standards and specifications requirements.
11. All excavation work shall be performed in accordance with ODOT and Deschutes County standards and specifications requirements.

VERTICAL DATUM

Virginia to topographic survey by HWA, Inc. dated August 30, 2006 for control survey control. Elevations, horizontal control, and vertical control determined by site calibration and surveying. The vertical control data used for the project is based on OR-NAD83, HWA-10077.

FILE: 62930 O.B. RILEY ROAD, STE. 100, BEND, OR 97703
DATE: 03/05/2021
SCALE: 1"

DESIGNER: RICKARD ROAD: GROFF RD
PUBLIC INFRASTRUCTURE PLANS
MARCH, 2021
DESHUTES COUNTY, OREGON

1" = 5,000'

PROJECT AREA

LOCATION MAP

1" = 1,000'

VICINITY MAP

RICKARD ROAD
GROFF RD TO US 20 IMPROVEMENT
PUBLIC IMPROVEMENT PLANS
MARCH, 2021
DESHUTES COUNTY, OREGON

UTILITY Notification Center

County Engineer

NOTE: SIGNATURE DOES NOT GRANT APPROVAL TO COMMENCE CONSTRUCTION.

APPROVAL

COUNTY ENGINEER:

DATE: March 9, 2021

C1.01 COVER SHEET
C2.01 CONSTRUCTION DETAIL DRAWINGS
C2.10 TEMPORARY TRAFFIC CONTROL PLAN
C3.00 SHEET INDEX MAP & DESIGN TABLES
C3.01 DEMO, ESC, & PVMT REHAB. PLAN, STA 10+00 TO STA 25+00
C3.02 DEMO, ESC, & PVMT REHAB. PLAN, STA 25+00 TO STA 70+00
C3.03 DEMO, ESC, & PVMT REHAB. PLAN, STA 70+00 TO STA 100+00
C3.04 DEMO, ESC, & PVMT REHAB. PLAN, STA 122+00 TO STA 170+00
C3.05 DEMO, ESC, & PVMT REHAB. PLAN, STA 170+00 TO STA 200+00
C4.01 RICKARD ROAD PLAN AND PROFILE, STA 90+00 TO STA 100+00
C4.02 RICKARD ROAD PLAN AND PROFILE, STA 100+00 TO STA 114+00
C4.03 RICKARD ROAD PLAN AND PROFILE, STA 114+00 TO STA 122+00
C4.04 RICKARD ROAD PLAN AND PROFILE, STA 122+00 TO STA 130+00
C4.05 RICKARD ROAD PLAN AND PROFILE, STA 130+00 TO STA 138+00
C4.06 RICKARD ROAD PLAN AND PROFILE, STA 138+00 TO STA 146+00
C4.07 RICKARD ROAD PLAN AND PROFILE, STA 146+00 TO STA 154+00
C4.08 RICKARD ROAD PLAN AND PROFILE, STA 154+00 TO STA 162+00
C4.09 RICKARD ROAD PLAN AND PROFILE, STA 162+00 TO STA 170+00
C4.10 RICKARD ROAD PLAN AND PROFILE, STA 170+00 TO STA 178+00
C4.11 RICKARD ROAD PLAN AND PROFILE, STA 178+00 TO STA 186+00
C4.12 RICKARD ROAD PLAN AND PROFILE, STA 186+00 TO STA 194+00
C4.13 RICKARD ROAD PLAN AND PROFILE, STA 194+00 TO STA 202+00
C4.14 RICKARD ROAD PLAN AND PROFILE, STA 202+00 TO STA 205+00
C5.01 STRIPING & SIGNAGE PLAN, STA 10+00 TO STA 34+00
C5.02 STRIPING & SIGNAGE PLAN, STA 34+00 TO STA 58+00
C5.03 STRIPING & SIGNAGE PLAN, STA 58+00 TO STA 82+00
C5.04 STRIPING & SIGNAGE PLAN, STA 82+00 TO STA 106+00
C5.05 STRIPING & SIGNAGE PLAN, STA 106+00 TO STA 130+00
C5.06 STRIPING & SIGNAGE PLAN, STA 130+00 TO STA 154+00
C5.07 STRIPING & SIGNAGE PLAN, STA 154+00 TO STA 178+00
C5.08 STRIPING & SIGNAGE PLAN, STA 178+00 TO STA 205+00
C5.09 SIGN LEGEND
C5.10 SIGN LEGEND
C5.11 SIGN AND POST DATA TABLE
C5.12 SIGN AND POST DATA TABLE
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C5.97 SIGN AND POST DATA TABLE
C5.98 SIGN AND POST DATA TABLE
C5.99 SIGN AND POST DATA TABLE
C6.00 ODOT STANDARD DRAWING INDEX
R0001 MAILBOX SUPPORT
R0002 TRENCH BACKFILL, BEDDING AND PIPE ZONE
R0010 ASPHALT CONCRETE PAVEMENT (ACP) DETAILS
R0011 ASPHALT CONCRETE PAVEMENT (ACP) DETAILS
R0015 CHECK DAMS - TYPE 1, 3 AND 4
R0040 SEDIMENT FENCE
T0000 SIGN INSTALLATION DETAILS
T0001 SIGNING DETAILS MILEPOST MARKERS
T0002 INSTALLATION DETAILS MILEPOST MARKER POSTS
T0003 PAVEMENT MARKING STANDARD DETAIL BLOCKS
T0004 PAVEMENT MARKING DETAIL BLOCKS
T0005 INTERSECTION MARKING DETAILS
T0067 SIGN ATTACHMENTS
T0071 PERFORATED STEEL SQUARE TUBE SIGN SUPPORT INSTALLATION
T0072 PERFORATED STEEL SQUARE TUBE SLIP BASE INSTALLATION
T0100 TABLES, ABRUT EDGE AND PCMs DETAILS
T0134 CLOSURE DETAILS
T0141 INTERSECTION WORK ZONE DETAILS
T0150 2-LANE, 2-WAY ROADWAYS
PHASE 1 TEMPORARY TRAFFIC CONTROL PLAN

PHASE 1 AND PHASE 2 WORK SHALL NOT BE PERFORMED SIMULTANEOUSLY

PER ODOT STD DWG TM840 "TYPICAL ROAD CLOSURE"

PREVIOUS ROUTE ALONG GOSNEY ROAD
PER ODOT STD DWG TM841 "2-LANE, 2-WAY ONE LANE CLOSURE"

DETOUR ROUTE

DETOUR SIGNAGE

CONTRACTOR SHALL MAINTAIN DETOUR ROUTE AND ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR DURATION OF PHASE 1 WORK

PHASE 1 TEMPORARY TRAFFIC CONTROL SIGNAGE

1. W20-3 36"x36" CLOSED ROAD AHEAD
2. W20-2 36"x36" DETOUR AHEAD
3. M4-8 24"x12" DETOUR
4. M5 SERIES OR M6 SERIES 21"x15"
5. M5 SERIES OR M6 SERIES 21"x15"
6. M5 SERIES OR M6 SERIES 21"x15"
7. M5 SERIES OR M6 SERIES 21"x15"
8. M4-10 48"x18" ROAD CLOSED 1.7 MILES AHEAD LOCAL TRAFFIC ONLY
9. R11-3A 60"x30" END DETOUR
10. W20-3 36"x36" CLOSED ROAD 1000 FT
11. W20-2 36"x36" CLOSED ROAD 500 FT ROAD CLOSED LOCAL TRAFFIC ONLY
12. R11-3A 60"x30" END DETOUR
13. M4-8A 24"x18" Portable Changeable Message Sign (PCMS) 14. M4-10 48"x18" Portable Changeable Message Sign (PCMS) (MESSAGE AS DIRECTED BY ENGINEER)
15. 8' WIDE TYPE III BARRICADE C (CLOSED-C) PER ODOT STD DWG TM820

PHASE 1 TEMPORARY TRAFFIC CONTROL PLAN

PHASE 1 AND PHASE 2 WORK SHALL NOT BE PERFORMED SIMULTANEOUSLY

FULL ROAD CLOSURE (LOCAL ACCESS ONLY)

PHASE 1 DETOUR ROUTE

CONTRACTOR SHALL MAINTAIN DETOUR ROUTE AND ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR DURATION OF PHASE 1 WORK

PHASE 2 TEMPORARY TRAFFIC CONTROL PLAN

CONTRACTOR SHALL COORDINATE ACTIVITY AREA WITH COUNTY ENGINEER AND MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES FOR DURATION OF PHASE 1 WORK

CONTRACTOR SHALL MAINTAIN DETOUR ROUTE AND ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR DURATION OF PHASE 2 WORK

PHASE 2 TEMPORARY TRAFFIC CONTROL PLAN

FOR ODOT OSID MIX DAILY WORK AT INTERSECTION OF GOSNEY ROAD AND RICKARD ROAD REFER TO ODOT STD DWG TM841 "2-LANE, 2-WAY ONE LANE CLOSURE"

FOR ODOT OSID MIX ALONG RICKARD ROAD (STA 10+45 TO STA 101+50) REFER TO ODOT STD DWG TM840 "TYPICAL ROAD CLOSURE"

CONTRACTOR SHALL MAINTAIN DETOUR ROUTE AND ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR DURATION OF PHASE 2 WORK

PHASE 2 TEMPORARY TRAFFIC CONTROL SIGNAGE

1. W20-3 36"x36" ROAD CLOSED 3600 FT
2. W20-2 36"x36" ROAD CLOSED 500 FT ROAD CLOSED LOCAL TRAFFIC ONLY
3. M5 SERIES OR M6 SERIES 21"x15"
4. M5 SERIES OR M6 SERIES 21"x15"
5. M5 SERIES OR M6 SERIES 21"x15"
DEMOLITION & ESC PLAN, STA 107+00 TO STA 126+00

LEGEND
- Existing Fence
- Existing Overhead Power
- Existing Underground Power
- Existing Communications Conduit
- Existing Water Line
- Existing Fire Hydrant
- Existing Water Meter
- Existing Domestic Water Valve
- Existing Irrigation Valve
- Existing Communication Pedestal
- Existing Power Pedestal
- Existing Utility Pole and Guy Anchor
- Existing Right-Of-Way

EXISTING MAJOR
- Existing Traffic Sign
- Existing Tree, Size and Type Noted
- Existing Tree to be Removed
- Install Sediment Fence
- (Per ODOT STD DWG RD1040)

EXISTING
- Existing Driveway
- Existing ACP to Remain
- Asphalt Concrete Pavement
- Erosion and Sediment Control
- Existing

SCALE: 1" = 60'

EXISTING
- EX VEHICLE ACCESS ROW
- RIGHT-OF-WAY
- EXISTING FENCE
- EXISTING OVERHEAD POWER
- EXISTING UNDERGROUND POWER
- EXISTING COMMUNICATIONS CONDUIT
- EXISTING WATER LINE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING DOMESTIC WATER VALVE
- EXISTING IRRIGATION VALVE
- EXISTING COMMUNICATION PEDESTAL
- EXISTING POWER PEDESTAL
- EXISTING UTILITY POLE AND GUY ANCHOR
- EXISTING RIGHT-OF-WAY

MATCH LINE
SEE SHEET C3.02

MATCH LINE
SEE SHEET C3.04

EXISTING
- EXISTING GRAVEL
- EXISTING ACP TO REMAIN
- ASPHALT CONCRETE PAVEMENT
- EROSION AND SEDIMENT CONTROL
- EXISTING

LEGEND
- ACP
- ESC
- EX
- ROW
- WM
DEMOLITION & ESC PLAN, STA 178+00 TO STA 194+00

Legend:
- **RED**: REMOVAL
- **BLACK**: CONSTRUCTION

**REMOVAL KEY NOTES**

1. STA 200+00 (L) TO STA 201+00 (R)
   - REMOVE EXISTING WHITE STRIPE
   - REMOVE EXISTING MAILBOX SUPPORT
   - SAVE EXISTING MAILBOX FOR REINSTALL (SEE SHEET C5.08 FOR PROPOSED RELLOCATION)

2. STA 203+86.75 (L) TO STA 203+81.45 (L)
   - REMOVE EXISTING WHITE STRIPE
   - INSTALL 2" ACP GRIND/INLAY (PER ODOT STD DWG TM830)
   - REMOVE EXISTING MAILBOX SUPPORT
   - SAVE EXISTING MAILBOX FOR REINSTALL (SEE SHEET C5.08 FOR PROPOSED RELLOCATION)

3. STA 203+99.25 (L) TO STA 203+99.25 (R)
   - EXISTING RUMBLE STRIP AND RECESSED PAVEMENT MARKER REMOVAL
   - CONSTRUCT 2" ACP GRIND/INLAY (PER ODOT STD TM830)

**CONSTRUCTION KEY NOTES**

- **NEW CONSTRUCTION**: IN PROGRESS
- **EXISTING CONSTRUCTION**: UNCHANGED

- **BLACK**: CONSTRUCTION
- **RED**: REMOVAL

**SCALE: 1" = 60'**

**FILE: 200607_CD.dwg**

**DATE: 03/05/2021**

**DRAWN BY**: 

**DESIGNED BY**: 

**CHECKED BY**: 

**SCALE**: 1" = 60'

**DATE**: 

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**SCALE**: 1" = 60'
RICKARD ROAD PLAN, STA 106+00 TO STA 114+00

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 6'

PAVING KEY NOTES
- SEE SHEET C5.01 - C5.12 FOR PERMANENT STRIPING AND SIGNAGE
- SEE SHEET C2.01 FOR TYPICAL CONSTRUCTION DETAILS
- SEE SHEET C1.01 FOR ODOT STANDARD DRAWING INDEX

RICKARD ROAD PROFILE, STA 106+00 TO STA 114+00

SCALE: HORIZONTAL: 1" = 30' / VERTICAL: 1" = 6'

RICKARD ROAD SUPERELEVATION DIAGRAM

SCALE: 1" = 30'

RICKARD RD: GROFF RD
PUBLIC INFRASTRUCTURE PLANS
CIVIL ENGINEERING | SURVEYING | PLANNING
62930 O.B. RILEY ROAD, STE. 100, BEND, OR 97703
PH: (541)389-9351 | FAX: (541)388-5416

DATE: 03/05/2021

DESIGNED BY: MPD
DRAWN BY: MPD
CHECKED BY: MPD

PUBLIC INFRASTRUCTURE PLANS
CIVIL ENGINEERING | SURVEYING | PLANNING
62930 O.B. RILEY ROAD, STE. 100, BEND, OR 97703
PH: (541)389-9351 | FAX: (541)388-5416

DATE: 03/05/2021

DESIGNED BY: MPD
DRAWN BY: MPD
CHECKED BY: MPD
CURVE #6
L = 478.846
Δ = 40.6535
R = 674.870

PC: 142+05.45

HIGH PT. STA: 142+05.53
HIGH PT. ELEV: 3613.19
PVI STA: 142+68.03
PVI ELEV: 3611.70
K: 36.53

EVCS: 143+30.53
EVCE: 3608.08

LOW PT. STA: 145+76.68
LOW PT. ELEV: 3598.81
PVI STA: 145+66.57
PVI ELEV: 3594.39
K: 29.77

EVCS: 144+04.07
EVCE: 3603.81

PC: 142+05.53

EG 30' LEFT OF ROW CL
EG 30' RIGHT OF ROW CL

HWA # 200607
DESCO # 2020-416
RICKARD RD: GROFF RD TO US 20 IMPROVEMENT

PUBLIC INFRASTRUCTURE PLANS
FINAL CONSTRUCTION PLANS

CIVIL ENGINEERING | SURVEYING | PLANNING
DESCHUTES COUNTY, OREGON
62930 O.B. RILEY ROAD, STE. 100, BEND, OR 97703
PH: (541)389-9351 | FAX: (541)388-5416
WEB: WWW.HWA-INC.ORG

SCALE: 1" = 30'
RICKARD ROAD PLAN, STA 138+00 TO STA 146+00

SCALE: HORIZONTAL: 1" = 30' / VERTICAL: 1" = 6'
RICKARD ROAD PROFILE, STA 138+00 TO STA 146+00

MATCH LINE
SEE SHEET C4.05

PAVING KEY NOTES
FULL RECONSTRUCT (PER DETAIL 2/C2.01)
CONSTRUCT SWALE (PER TABLES SHEET C2.01 AND DETAIL 2/C2.01)
STA 144+85.92 TO STA 146+00.00
CONSTRUCT KANE PROPERTY FENCE (REPLACE IN KIND)

SEE SHEET C1.01 FOR ODOT STANDARD DRAWING INDEX
SEE SHEET C2.01 FOR TYPICAL CONSTRUCTION DETAILS
SEE SHEETS C5.01 - C5.12 FOR PERMANENT STRIPING AND SIGNAGE

EMB. 235 CY
EXC. 1,666 CY

MATCH LINE
SEE SHEET C4.07
CURVE #7

L = 346.710
Δ = 33.4316
R = 594.200

PRC: 146+84.30
PT: 150+31.01

EG AT ROW CL

PVI STA: 149+64.70
PVI ELEV: 3614.77

K: 38.32
275.00' VC

EVCS: 147+29.07
EVCE: 3602.71

HIGH PT. STA: 151+78.16
HIGH PT. ELEV: 3610.38

K: 115.99
275.00' VC

BVCS: 148+27.20
BVCE: 3607.73

EVCS: 151+02.20
EVCE: 3611.94

HIGH PT. STA: 151+78.16
HIGH PT. ELEV: 3610.38

K: 115.99
275.00' VC

BVCS: 151+78.16
BVCE: 3610.38

LOW PT. STA: 145+76.68
LOW PT. ELEV: 3598.81

PVI STA: 145+66.57
PVI ELEV: 3594.39

K: 29.77
325.00' VC

EVCS: 147+29.07
EVCE: 3602.71

PAVING KEY NOTES:

1. FULL RECONSTRUCT (PER DETAIL 2/C2.01)
2. STA 148+15.95 TO STA 154+00.00
   CONSTRUCT BLM FENCE (PER TABLE C2.01)
3. CONSTRUCT SWALE (PER TABLE C2.01)
4. STA 146+00.00 TO STA 147+58.73
   CONSTRUCT RICKARD PROPERTY FENCE (PER DETAIL 2/C2.01)

SEE SHEET C1.01 FOR ODOT STANDARD DRAWING INDEX
SEE SHEET C2.01 FOR TYPICAL CONSTRUCTION DETAILS
SEE SHEETS C5.01 - C5.12 FOR PERMANENT STRIPING AND SIGNAGE
SEE SHEETS C5.01 - C5.12 FOR STRIPING AND SIGNAGE
SEE SHEET C2.01 FOR TYPICAL CONSTRUCTION DETAILS
SEE SHEET C1.01 FOR ODOT STANDARD DRAWING INDEX

PAVING KEY NOTES

FULL RECONSTRUCT (PER DETAIL C2.01)
STA 170+00 (CONSTRUCT) CONSTRUCT ACP DRIVEWAY APRON (PER DETAIL C2.01)
STA 170+00 (CONSTRUCT) CONSTRUCT BLM FENCE (PER DETAIL C2.01)
STA 170+00 TO STA 170+33.93 (CENTERLINE) CONSTRUCT ACP DRIVEWAY APRON

RICKARD ROAD PLAN, STA 170+00 TO STA 178+00

RICKARD ROAD PROFILE, STA 170+00 TO STA 178+00

RICKARD ROAD SUPERELEVATION DIAGRAM
RICKARD ROAD PLAN, STA 194+00 TO STA 202+00

Scale: HORIZONTAL: 1" = 30' / VERTICAL: 1" = 6'

RICKARD ROAD PROFILE, STA 194+00 TO STA 202+00

PAVING KEY NOTES

See Sheet C1.01 for ODOT Standard Drawing Index
See Sheet C2.01 for Typical Construction Details
See Sheets C2.01 - C2.12 for Permanent Striping and Signage
See Sheet C1.01 for ODOT Standard Drawing Index
See Sheet C2.01 for Typical Construction Details
See Sheets C5.01 - C5.12 for Permanent Striping and Signage

1. FULL RECONSTRUCTION
   (PER DETAIL 3/C2.01)
2. STA 194+00 (CENTERLINE)
   CONSTRUCT ACP DRIVEWAY APRON
   (PER DETAIL 3/C2.01)
3. STA 200+99.56 (CENTERLINE)
   CONSTRUCT ACP DRIVEWAY APRON
   (PER DETAIL 3/C2.01)
4. CONSTRUCT SWALE (PER TABLES SHEET C2.01 AND DETAIL 2/C2.01)

See Sheet C1.01 for ODOT Standard Drawing Index
See Sheet C2.01 for Typical Construction Details
See Sheets C5.01 - C5.12 for Permanent Striping and Signage
RS7 DESCHUTES COUNTY, OREGON

OHP RS20

RI7 LOCATE STOP AHEAD SIGN (NO. 20) AND TABLE, SHEET C5.12

W RI20 W

18+00

26+00

STOP

ST

RD

ND

TV

W

OHP

S

UGP

( RURAL COLLECTOR )

EX SIGN

DRIVEWAY

OHP

OHP

OHP

OHP

OHP

OHP

OHP

OHP

OHP

OHP

OHP

OHP

W

27+00

22+00

29+00

21+00

24+00

PERMANENT STRIPING KEY NOTES

PROVIDE "STOP" MARKERS

PROVIDE "STOP" MARKERS

PROVIDE "STOP" MARKERS

PROVIDE "STOP" MARKERS

PROVIDE "STOP" MARKERS

PROVIDE "STOP" MARKERS

PROVIDE "STOP" MARKERS

PROVIDE "STOP" MARKERS

PROVIDE "STOP" MARKERS

PROVIDE "STOP" MARKERS

W

W

W

W

W

W

W

W

W

W

W

W

W

W

W

W

W
RICKARD ROAD STRIPING & SIGNAGE PLAN, STA 58+00 TO STA 66+00

RICKARD ROAD STRIPING & SIGNAGE PLAN, STA 66+00 TO STA 74+00

RICKARD ROAD STRIPING & SIGNAGE PLAN, STA 74+00 TO STA 82+00

PERMANENT STRIPING KEY NOTES

- PROVIDE 3" WHITE LINES
  (PER ODOT STD DWG TM503, DETAIL "S")
- PROVIDE 2" WHITE LINES
  (PER ODOT STD DWG TM503, DETAIL "NPR")
- PROVIDE 1" WHITE LINES
  (PER ODOT STD DWG TM503, DETAIL "ND")
- INSTALL STOP BARS
  (PER ODOT STD DWG TM503, DETAIL "W")
- PROVIDE NO-PASS RIGHT 4" YELLOW LINES
  (PER ODOT STD DWG TM503, DETAIL "NPR")
- PROVIDE NARROW DOUBLE NO-PASS TWO 4" YELLOW LINES
  (PER ODOT STD DWG TM503, DETAIL "ND")
- PROVIDE 4" WHITE LINE
  (PER ODOT STD DWG TM503, DETAIL "S")
- INSTALL STOP BARS
  (PER ODOT STD DWG TM503, DETAIL "W")

SCALE: 1" = 30'
PERMANENT STRIPING KEY NOTES:

1. PROVIDE 4" WHITE LINE (PER ODOT STD DWG TM500, DETAIL "W")
2. PROVIDE NARROW DOUBLE NO PASS TWO 4" YELLOW LINES (PER ODOT STD DWG TM500, DETAIL "ND")
3. PROVIDE NO PASS LEFT 4" YELLOW LINES (PER ODOT STD DWG TM500, DETAIL "NPL")
4. PROVIDE 4" YELLOW BROKEN LINE (PER ODOT STD DWG TM500, DETAIL "YB")

SCALE: 1" = 30'
PERMANENT SIGN LEGEND

PERMANENT STRIPING KEY NOTES

NOTES:
EXISTING SIGNS NOT SHOWN ARE TO REMAIN IN PLACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
THE LOCATIONS OF SIGN INSTALLATIONS SHOWN ARE APPROXIMATE WITH EXACT LOCATIONS TO BE DETERMINED IN THE FIELD.
RICKARD ROAD STRIPING & SIGNAGE PLAN, STA 154+00 TO STA 162+00

RICKARD ROAD STRIPING & SIGNAGE PLAN, STA 162+00 TO STA 170+00

RICKARD ROAD STRIPING & SIGNAGE PLAN, STA 170+00 TO STA 178+00

PERMANENT STRIPING KEY NOTES

- PROVIDE 4" WHITE LINE
  PER DEPTH STD/STD (YELLOW EXC. 1/4")
  (PER ODOT STD DWG TM500, DETAIL "W")

- PROVIDE NARROW DOUBLE NO-PASS 4" YELLOW LINES
  PER DEPTH STD/STD (YELLOW EXC. 1/4")

- PROVIDE NO-PASS LEFT 4" YELLOW LINE
  PER DEPTH STD/STD (DEPTH EXC. 1/4")

- PROVIDE 4" YELLOW BROKEN LINE
  PER DEPTH STD/STD (DEPTH EXC. 1/4")

- PROVIDE NO-PASS RIGHT 4" YELLOW LINES
  PER DEPTH STD/STD (DEPTH EXC. 1/4")

- PROVIDE 4" WHITE LINE
  PER DEPTH STD/STD (YELLOW EXC. 1/4")

- PROVIDE NARROW DOUBLE NO-PASS 4" YELLOW LINES
  PER DEPTH STD/STD (YELLOW EXC. 1/4")

- PROVIDE NO-PASS LEFT 4" YELLOW LINE
  PER DEPTH STD/STD (DEPTH EXC. 1/4")

- PROVIDE 4" YELLOW BROKEN LINE
  PER DEPTH STD/STD (DEPTH EXC. 1/4")

- PROVIDE NO-PASS RIGHT 4" YELLOW LINES
  PER DEPTH STD/STD (DEPTH EXC. 1/4")

PERMANENT SIGN LEGEND

- SEE SHEETS C5.09 - C5.12 FOR SIGN AND SUPPORT DETAILS
- INSTALL NEW SIGNS (N) ON NEW SIGN SUPPORT (M)

	x = SIGN NUMBER

M = MATERIAL OPTIONS ARE:

- W = WOOD
- S = PERFORATED SQUARE STEEL TUBE
- P = STEEL POLE

NOTES:

- EXISTING SIGNS NOT SHOWN ARE TO REMAIN IN PLACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE LOCATIONS OF SIGN INSTALLATIONS SHOWN ARE APPROXIMATE WITH EXACT LOCATIONS TO BE DETERMINED IN THE FIELD.
## SIGN & POST DATA TABLE

<table>
<thead>
<tr>
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<td>SIGN NO.</td>
<td>SIGN LOCATION (TM200-TM201, TM300)</td>
<td>SIGN DIMENSIONS</td>
<td>HOUSING</td>
<td>COLOR</td>
<td>LEGEND</td>
<td>LEGEND NO.</td>
<td>TYPE OF SUPPORT</td>
<td>POST LENGTH</td>
<td>POSTING</td>
<td>FOOTING</td>
<td>FOOTING LOC.</td>
<td>REMARKS</td>
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<td>R</td>
<td>W</td>
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<td>R</td>
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<td>R</td>
<td>W</td>
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<td>30&quot; 30&quot;</td>
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<td>R</td>
<td>W</td>
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<td>30&quot; 30&quot;</td>
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<td>W</td>
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<td>W</td>
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<td>MOUNT BELOW SIGN NO. 19</td>
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</tbody>
</table>

- MOUNT BELOW SIGN NO. 6
- MOUNT BELOW SIGN NO. 7
- MOUNT BELOW SIGN NO. 8
- MOUNT BELOW SIGN NO. 9
- MOUNT BELOW SIGN NO. 10
- MOUNT BELOW SIGN NO. 11
- MOUNT BELOW SIGN NO. 12
- MOUNT BELOW SIGN NO. 13
- MOUNT BELOW SIGN NO. 14
- MOUNT BELOW SIGN NO. 15
- MOUNT BELOW SIGN NO. 16
- MOUNT BELOW SIGN NO. 17
- MOUNT BELOW SIGN NO. 18
- MOUNT BELOW SIGN NO. 19

SEE ODOT STD DWG TM222

PH: (541) 389-9351 | FAX: (541) 388-5416
PUBLIC INFRASTRUCTURE PLANS
DESIGNED BY: HWA | DRAWN BY: MPD | CHECKED BY: AS NOTED

PUBLIC INFRASTRUCTURE PLANS
RICKARD RD: GROFF RD
TO US 26 STRUCTURE PLANS
OSKOSH COUNTY, OREGON

HWA

C.5.12
TABLE 1

<table>
<thead>
<tr>
<th>Posted Speed</th>
<th>Taper Length</th>
</tr>
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<tbody>
<tr>
<td>≤ 45 mph</td>
<td>1&quot; per 50'</td>
</tr>
<tr>
<td>≥ 45 mph</td>
<td>1&quot; per 100'</td>
</tr>
</tbody>
</table>

METHOD A *

ACP wearing course

Taper (See Table 1)

* See project plans for method.

METHOD B *

ACP PAVEMENT MATCH AT PROJECT ENDS
OR BRIDGE ENDS WHEN NOT OVERLAYING THE BRIDGE

METHOD OF FEATHERING ACP PAVEMENT
AT GRAVEL APPROACHES

METHOD OF MATCHING EXTG. ACP INLAY SURFACING
(Inlay to extg. asphalt conc. pmnt.)

Effective Date: December 1, 2020 – May 31, 2021
SEDIMENT FENCE AND GEOTEXTILE BURY DETAIL - TYPE 1

GENERAL NOTES:
1. Use 2"x2" wood fence posts.
2. Posts to be installed on downhill side of sediment fence geotextile. Position posts to prevent separation from geotextile.
4. Locate fence no closer than three feet to the toe of a slope.
5. Wing spacing shall comply with "Fence Spacing for General Application Table".

FENCE SPACING FOR GENERAL APPLICATION TABLE

<table>
<thead>
<tr>
<th>GRADE</th>
<th>MINIMUM SPACING ON GRADE</th>
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</thead>
<tbody>
<tr>
<td>Grade 1.5%</td>
<td>300'</td>
</tr>
<tr>
<td>10% x Grade 1.5%</td>
<td>250'</td>
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<tr>
<td>15% x Grade 1.5%</td>
<td>200'</td>
</tr>
<tr>
<td>20% x Grade 1.5%</td>
<td>150'</td>
</tr>
<tr>
<td>30% x Grade 1.5%</td>
<td>100'</td>
</tr>
<tr>
<td>40% x Grade 1.5%</td>
<td>50'</td>
</tr>
<tr>
<td>50% x Grade 1.5%</td>
<td>25'</td>
</tr>
</tbody>
</table>

POST SPACING TABLE

- Sediment Fence with Geotextile elongation less than 50% or more
- Sediment Fence with Geotextile elongation 50% or more

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

Effective Date: December 1, 2020 - May 31, 2021
**General Installation Notes:**

a. Signing details shown on this sheet are intended to convey "typical" conditions only.
   Individual locations may require installation different from those shown.
   For guidance regarding unique installations or exceptions call the Project Sign Designer
   or Region Traffic Section.

b. Locate breakaway supports away from ditches to avoid problems with erosion, corrosion,
   debris, maintenance and breakaway performance. See Dwg. No. TM635 for more information.

c. For wood post support details see Dwg. No. TM670.

d. For perforated steelsquare tube support details see Dwg. No. TM681.

e. For triangular base breakaway support details see Dwg. No. TM682.

f. For multi-post breakaway support details see Dwg. No. TM690.

g. Mounting heights should not be more than 3 inches more than the minimum heights shown, where practical.

h. 2" vertical spacing between all signs.

**Notes:**

1. 6' minimum if behind barrier.
2. 2' minimum if restricted R/W.
3. 20' for ramp terminals.
4. 8' minimum if bicycle path underneath.
5. 8' minimum if secondary signs attached.
6. 5' minimum if outside clear zone, in rural areas and no pedestrians underneath.
7. For multi-post installations measure distance from post closest to roadway.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

**Effective Date:** December 1, 2020 - May 31, 2021
GENERAL NOTES:
1. SIGNS
   (a) Signs shall be fabricated from sheet aluminum with a nominal thickness of 0.065".
   (b) Signs shall have silver-white ASTM Type III or Type IV retroreflective sheeting.
   (c) Permanently legible and against a green ASTM Type III or Type IV retroreflective sheeting background.
   (d) The Federal Highway Administration's standard rounded capital letter alphabet shall be used.
   (e) The corners of signs shall be rounded to match the border.
   (f) 1/4" dia. mounting holes
   (g) Signs shall conform to sections 940 and 2910 of the current Oregon Standard Specifications for Construction.
   (h) The rivet hole pattern is unique for each sign and corresponds to a specific post length on ODOT Standard Drawing TM222.
   (i) Border for all signs is 1/4" wide. This dimension supersedes ODOT Standard specification 00840.45(b)
POST DIMENSION TABLE

<table>
<thead>
<tr>
<th>SIGN</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f***</th>
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<tbody>
<tr>
<td>A</td>
<td>1&quot;</td>
<td>7&quot;</td>
<td>9/16&quot;</td>
<td>9&quot;</td>
<td>9&quot;</td>
<td>12-5/16&quot;</td>
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<tr>
<td>B</td>
<td>1&quot;</td>
<td>7&quot;</td>
<td>9/16&quot;</td>
<td>9&quot;</td>
<td>9&quot;</td>
<td>12-5/16&quot;</td>
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<tr>
<td>C</td>
<td>1&quot;</td>
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<td>12-1/8&quot;</td>
<td>13&quot;</td>
<td>13&quot;</td>
<td>12-5/16&quot;</td>
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</tbody>
</table>

**See TM221**

**Length may vary according to ground slope conditions.**

POST AND BRACKET ASSEMBLIES

(a) The nominal weight of the post shall be 2 pounds per linear foot.
(b) Bracket assemblies shall conform to subsection 2910.10 of the current Oregon Standard Specifications for Construction.

INSTALLATION

(a) If roadway conditions prohibit locating the milepost sign at the milepost, it may be moved up to 50 feet in either direction. If it cannot be located within this variation, it should be omitted.
(b) Signs shall be mounted to posts with 4" diameter aluminum blind rivets that conform to subsection 2910.40 of the current Oregon Standard Specifications for Construction.
(c) If the milepost sign is located within 25 feet of a delineator, the delineator should be moved or deleted.
(d) Installation of the post and sign panel shall conform to subsection 840.41 of the current "Oregon Standard Specifications".

GENERAL NOTES:

CONVENTIONAL ROADS

<table>
<thead>
<tr>
<th>INSTALLATION DETAILS</th>
<th>MILEPOST MARKER POSTS</th>
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<tr>
<td>CALC. BOOK NO.</td>
<td>MILE</td>
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<tr>
<td>OREGON STANDARD DRAWINGS</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** All material and workmanship shall be in accordance with the current Oregon Standard Specifications.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.
Reflective sheeting sign face

Nylon washer, nom. \( \frac{3}{8} \) O.D., \( \frac{3}{16} \) thick

Hold bolt head in place and turn nut on opposite side. Except for Lag Bolts

\( \frac{3}{8} \) O.D. min. Double Stainless steel ASTM 316 flat washers*

Nut w/ nylon locking feature **

\( \frac{3}{8} \) a Stainless steel bolt Type 304 or 316 inside \( \frac{3}{16} \) a mounting hole (length as required by support)

\( \frac{3}{8} \) O.D. min. ASTM 316 Stainless steel flat washer *

* Stainless steel bonded sealing washer with neoprene layer is an acceptable substitute
** Acceptable substitute for nylon locking nuts:
- ANCO PIN-LOC
- TRI-LOC*
- Top Lock Locknut

Reflective sheeting sign face

Nylon washer, nom. \( \frac{3}{8} \) O.D., \( \frac{3}{16} \) thick

3/8" dia. x 3" lag screw. Tighten until all piles are in firm contact. Do not overtighten and damage sign.

\( \frac{3}{8} \) O.D. min. Double Stainless steel ASTM 316 flat washers*

* Stainless steel bonded sealing washer with neoprene layer is an acceptable substitute

Note: This optional detail is to be used only when specified on a project.

OPTIONAL WOOD POST LAG SCREW DETAIL

Note: When signs are placed on opposite sides of post, \( \frac{3}{8} \) x 3" lag screws can be used instead of through bolt.
1) Use nylon and stainless steel washers when signs are placed on both sides of post.
2) Burr threads at junction with nut when locknuts are not used.
3) Post bolts to extend beyond the tightened nuts within the limits of \( \frac{3}{8} \) to \( \frac{3}{4} \).
Sign post shall be installed according to the manufacturer's instructions.

1/2" Bolt with 2 flatwashers, and 1 nut. (2 Required)

3/8" Bolt with 2 Sleeves, 2 flatwashers, and nut. (3 Required)

Top Slip Base Plate

Teflon Gasket

Bottom Slip Base Plate

3" x 3" x 7 gauge Anchor Tube welded to bottom slip base.

Well compacted granular material

General Notes:
1. Material grade for base hardware connection shall be according to the manufacturer's recommendation and based on crash testing.
2. Slip base steel shall be hot-dipped galvanized or approved equal.
3. Footing concrete shall be Commercial Grade Concrete (fc = 3000 psi) per Specification 00440. The CEC mixture may be accepted at the site of placement according to 00440.14.
4. Material grade for base hardware connection shall be according to the manufacturer's recommendation and based on crash testing.
5. All slip bases shall be pre-assembled by the manufacturer and shall be installed according to the manufacturer's instructions.
6. Use slip bases listed on the ODOT Qualified products list or submit crash testing data, installation instructions, and un stamped working drawings according to ODOT 3.25.
7. Slip base details shown are not for a specific manufacturer and are only shown to convey general pieces of a slip base system. Specific slip base material will be according to the manufacturer's documentation.

SLIP BASE EXPLODED VIEW

No scale

SLIP BASE ELEVATION

No scale

Perforated Steel Square Tube (PSS)

Washer

Nut

Top Slip Base Plate

Bolt Sleeve

Teflon Gasket

Bolt Sleeve

Bottom Slip Base Plate

Washer

1/2" Bolt

3" x 3" x 7 gauge Anchor Tube welded to bottom slip base.

PLAN
No scale
BARRICADE RAIL LAYOUT

NOTES:

- Markings for barricade rails shall slope downward at an angle of 45° in the direction traffic is to pass.

- Where a barricade extends entirely across a roadway, it is desirable that the stripes slope downward in the direction toward which traffic must turn in detouring.

- Where both right and left turns are provided, the chevron stripes shall slope downward in both directions from the center of the barricade.

- For full roadway closures, the C or LR barricade may be used. Extend barricades completely across roadway unless access is required for local road users.

BARRICADE NOTATION

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<td>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.</td>
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DIAGRAM FOR BARRICADE PLACEMENT AND SLOPE MARKING

- Sandbags (approximately 25 lb suck filled with sand) may be placed on lower frame to provide additional ballast.
- Ballast shall not extend above bottom rail or be suspended from barricade.
- For rails less than 36" long, 4" wide stripes shall be used.
- Rails must be 8" min. to 12" max. in height.
- Use barricades from ODOT Qualified Products List (QPL).
- Use 4" Type IIL barricades where horizontal space is limited.
- Do not block bike lanes or shoulders unless the facility is properly closed and signed.
- Do not place barricades in sidewalks unless sidewalk is closed and a temporary pedestrian accessible route (TPAR) is signed according to the TCP. See Dep. No. TM844.
**DOUBLE POST DETAIL**

- 2 - 8" dia. bolts per support (typ.)
- 2 - 3/8" x 3" lag screws per support (typ.)
- 4 1/2" x 6" x 0.080 sign per support (typ.)
- 1 4" x 3/8" x 3" lag screw per side (typ.)
- 1 1/2" dia. bolts per side (typ.)
- 4 - 2" x 6" 2 - 4" x 4" x 5 1/2"

**NOTES:**
- Use Double Post TSS for a total sign area of 20 sq. ft. or less.
- All members shall have a minimum yield stress of 50 ksi.
- Galvanize steel according to ASTM A533 with coating designation G90. Remove Galvanizing from steel before welding. Repair Galvanizing according to ASTM A760.
- Use ASTM Bolt or equivalent.

**PERFORATED STEEL SQUARE TUBE (PSST) DETAIL**

- 2 1/2" - 12 ga. PST
- 1 1/2" - 12 ga. PST Stub
- 2 1/2" - 12 ga. PST
- 2 1/2" - 12 ga. x 4" PST Stub
- 1/4" dia. bolt joining brace and support (typ.)
- 3/8" dia. bolt screw per side (typ.)
- 2 - 2" x 2" x 4" lag screws (typ.)
- 2 - 2" x 2" x 4" lag screws (typ.)
- 4 - 3/8" x 4 lag screws

**NOTES:**
- Use PSST TSS's for a total sign area of 16 sq. ft. or less.
- All members shall have a minimum yield stress of 50 ksi.
- Galvanize steel according to ASTM A533 with coating designation G90. Remove Galvanizing from steel before welding. Repair Galvanizing according to ASTM A760.
- Use ASTM Bolt or equivalent.

**SINGLE POST DETAIL**

- 2 1/2" - 12 ga. PST to extend entire length inside of the 2 1/2" - 12 ga. x 4" PST Stub.
- Do not use bolt to secure 2 1/4" PST inside of the 2 1/4" - 12 ga. x 4" PST Stub.
- Weld steel according to American Welding Society (AWS) D1.1.

**TEMPORARY SIGN SUPPORT GENERAL NOTES:**
- Do not tip over TSS at any time.
- Do not locate TSS in locations that block pedestrian or bicycle traffic.
- For wooden TSS’s, use either Douglas Fir or Hem Fir, which is surfaced four sides (S4S) and free of insect center (FOCH).
- See "Temporary Sign Placement" detail on TM822 for sign installation heights.
- Do not place or stack ballast more than 24" above the ground.
- When sign is consistent with current work zone conditions, cover sign: or turn sign 90 degrees away from approaching traffic. Remove TSS from roadway when signing is no longer needed for more than 3 days.
- Place a minimum of 50 lbs of sandbags on each of the four TSS supports legs. (25 lbs max per bag (min. 100 lbs per side of each TSS).
- See Dwg. No. TM204 for flag board mounting detail.

**SIGN POST REFLECTIVE SHEETING PLACEMENT**

- Double Post
- Perforated Steel Square Tube (PSST)
- Single Post

**NOTES:**
- Apply fluorescent orange, ANSI Type VIII or IV retroreflective sheeting to TSS posts, as shown, for all temporary signs, except "STOP" and "DO NOT ENTER." For "STOP" and "DO NOT ENTER" signs, use red ANSI Type III or IV retroreflective sheeting on the TSS posts.
- Apply sign post retroreflectivity to each TSS post facing front, and to the left and right sides of the TSS, as shown. Use 3" wide sheeting for wood post TSS’s. Use 2" wide sheeting for PSST TSS’s.
- SHEETING may be applied directly to post material, or applied to a rigid, lightweight substrate, then securely attached to the post.

**OREGON STANDARD DRAWINGS**

**TEMPORARY SIGN SUPPORTS**

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

**Effective Date:** December 1, 2020 - May 31, 2021
NOTES:
- DO NOT USE ON BRIDGE DECKS. Retain barrier on bridge decks according to Bridge Design Manual. See Chapter 1.3.1.1.10
- Predrill pin holes for PCC pavement placement.
- Excavation height greater than 3 feet requires proper back slope based on angle of repose, or shoring as directed.

SECURING TEMPORARY CONCRETE BARRIER
(Shoulder Installation)

SECURING TEMPORARY TALL CONCRETE BARRIER
(Median Installation)

NOTES:
- CPRR and inlay existing rumble strips prior to staging traffic across the area. Common application is staging for freeway crossovers and lane shifts.
- Remove and replace existing striping as required.

UNDER CONSTRUCTION

EXISTING RUMBLE STRIP REMOVAL

Effective Date: December 1, 2020 - May 31, 2021
2-Lane, 2-Way Roadway

**LOOSE GRAVEL IN ROADWAY SIGNING**

- Place Advance Flagger and additional signing when traffic queues extend beyond initial warning sign OR when sight distance is restricted.
- Relocate initial "ROAD WORK AHEAD" (W2-1) sign in advance of additional "BE PREPARED TO STOP" (W3-4) and Flagger Ahead (W23-2) signs, as shown.

**OVERLAY AREA SIGNING**

- Continue "ABRUPT EDGE" (CW21-7) and "DO NOT PASS" (W4-1) signing throughout the area at spacing shown.

**ADVANCE FLAGGER FOR EXTENDED TRAFFIC QUEUES**

- The "FLAGGER" (CW3-2) symbol sign shall be used only in conjunction with the "BE PREPARED TO STOP" (W3-4) sign.
- Cover existing passing zone signing, as directed.
- Install temporary striping as required.
- To determine Taper Length ("L") and Buffer Length ("B"), use the "MINIMUM LENGTHS" table shown on Deg No. TM800.
- To determine sign spacing, use "TRAFFIC CONTROL DISTANCES (TCD) SPACING TABLE" on Deg No. TM800.
- Install a "BICYCLES ON ROADWAY" (CW11-1) sign in advance of the closure when a bike lane is closed, or when the shoulder is closed and bikes are expected.
- At night, flagger stations shall be illuminated according to the FLASHER STATION LIGHTING DELINERATION detail on Deg No. TM800.

**ONE LANE CLOSURE**

- To be accompanied by Deg. Nos. TM820 & TM821.
- Use a minimum of 3 tubular markers in shoulder taper on 10' spacing for flagger station delineation.

**FLAGGER STATION DELINERATION**

- All material and workmanship shall be in accordance with the current Oregon Design Specifications.