# INDEX

| SHEET NO. | PLAN REFERENCE NO. | TITLE |
|---|---|---|
| 1 | IN1 | INDEX |
| 2 | VM1 | VICINITY MAP |
| 3 - 4 | SQ1 - SQ2 | SUMMARY OF QUANTITES |
| 5 - 26 | P1 - P22 | PLAN SHEETS |
| 27 - 29 | TC1 - TC3 | TRAFFIC CONTROL PLAN |

# INDEX (CONTINUED)

| SHEET NO. | PLAN REFERENCE NO. | TITLE |
|---|---|---|

PLAN REFERENCE NO.

SHEET OF SHEETS

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Index.dgn |
| TIME | 9:00:31 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

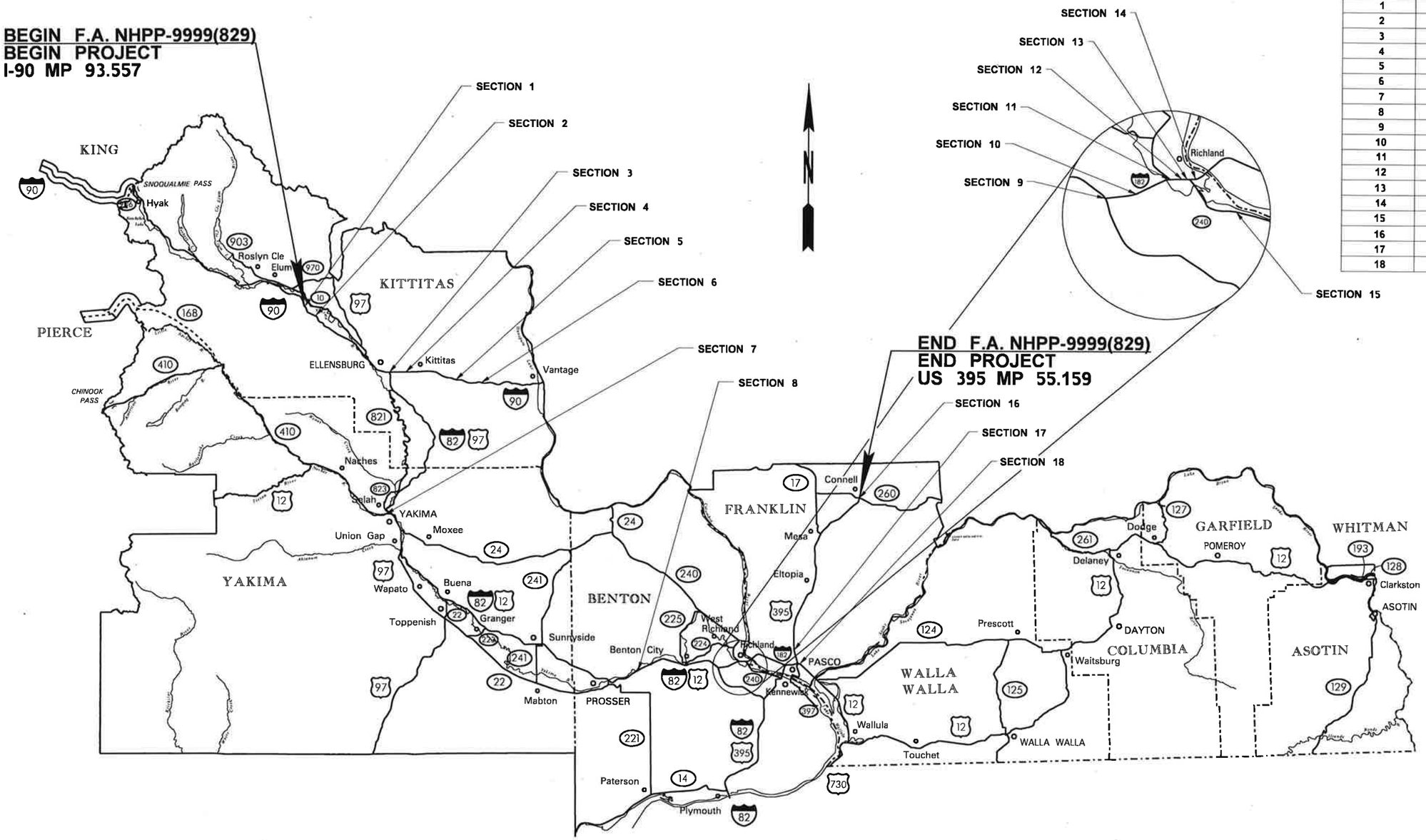
INDEX

Plot 1

PLAN REF. NO. IN1

SHEET 1 OF 29 SHEETS

**BEGIN F.A. NHPP-9999(829)**
**BEGIN PROJECT**
**I-90 MP 93.557**




**END F.A. NHPP-9999(829)**
**END PROJECT**
**US 395 MP 55.159**

## SECTION LOCATIONS

| SECTION | SR. NO. | MP TO MP |
|---|---|---|
| 1 | 90 | MP 93.557 - MP 93.683 |
| 2 | 90 | MP 100.995 - MP 101.144 |
| 3 | 90 | MP 110.777 - MP 110.939 |
| 4 | 90 | MP 111.381 - MP 111.537 |
| 5 | 90 | MP 115.389 - MP 115.548 |
| 6 | 90 | MP 117.735 - MP 117.891 |
| 7 | 12 | MP 201.490 - MP 201.625 |
| 8 | 82 | MP 88.51 - MP 92.14 |
| 9 | 182 | MP P1 9.914 - I-182 MP 0.112 |
| 10 | 182 | MP 2.331 - MP 2.499 |
| 11 | 182 | MP 3.758 - MP 3.923 |
| 12 | 182 | MP 4.283 - MP 4.439 |
| 13 | 182 | MP 4.741 - MP 4.893 |
| 14 | 182 | MP 4.992 - MP 5.165 |
| 15 | 240 | MP 40.427 - MP 40.532 |
| 16 | 395 | MP 23.634 - MP 23.750 |
| 17 | 395 | MP 54.997 - MP 55.195 |
| 18 | 12 | MP 292.296 - MP 292.480 |

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Vicinity.dgn |
| TIME | 9:01:35 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 19Y002
CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

**SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER**

**VICINITY MAP**

Plot 3
PLAN REF NO VM1
SHEET 2 OF 29 SHEETS

# SUMMARY OF QUANTITIES

DOT_RGG900

4/29/2019

| ITEM NO | TOTAL QUANTITY | SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS | SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS | STD. ITEM NO. | UNIT | ITEM | GROUP 1 I-90, SECTION 1, ELK HEIGHTS I/C | GROUP 2 I-90, SECTION 1, ELK HEIGHTS I/C | GROUP 1 I-90, SECTION 2, THORP RD I/C | GROUP 2 I-90, SECTION 2, THORP RD I/C | GROUP 1 I-90, SECTION 3, I-82 I/C | GROUP 2 I-90, SECTION 3, I-82 I/C | GROUP 1 I-90, SECTION 4, NUMBER 6 RD U/C | GROUP 2 I-90, SECTION 4, NUMBER 6 RD U/C | GROUP 1 I-90, SECTION 5, KITTITAS RD I/C | GROUP 1 I-90, SECTION 6, PRATER RD U/C | GROUP 3 US 12, SECTION 7, 16TH AVE I/C | GROUP 4 US 12, SECTION 7, 16TH AVE I/C | GROUP 5 I-82, SECTION 8, GIBBON RD | GROUP 6 I-82, SECTION 8, GIBBON RD | GROUP 7 I-182, SECTION 9, I-82/I-182 I/C | GROUP 8 I-82, SECTION 10, KEENE RD U/C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **PREPARATION** | | | | | | | | | | | | | | | | |
| 1 | LUMP SUM | | LUMP SUM | 0001 | L.S. | MOBILIZATION | L.S. | | L.S. | | L.S. | | L.S. | | L.S. | L.S. | L.S. | | L.S. | | L.S. | L.S. |
| 2 | 100.00 | | 100.00 | 0170 | L.F. | REMOVING GUARDRAIL | | | | | | | | | | | | | | | | |
| 3 | 2.00 | | 2.00 | 0182 | EACH | REMOVING GUARDRAIL ANCHOR | | | | | | | | | | | | | | | | |
| 4 | 19418.00 | | 19418.00 | | L.F. | REMOVING HIGH TENSION CABLE BARRIER SYSTEM | | | | | | | | | | | | | 19,418.00 | | | |
| | | | | | | **EROSION CONTROL AND ROADSIDE PLANTING** | | | | | | | | | | | | | | | | |
| 5 | 11.00 | | 11.00 | 6403 | DAY | ESC LEAD | 1.00 | | 1.00 | | 1.00 | | 1.00 | | 1.00 | 1.00 | | | | | | 1.00 |
| 6 | 11.00 | | 11.00 | 6471 | EACH | INLET PROTECTION | | | | | | | | | | | | | 9.00 | | | 2.00 |
| 7 | LUMP SUM | | LUMP SUM | 6488 | L.S. | EROSION CONTROL AND WATER POLLUTION PREVENTION | L.S. | | | | | | | | | | | | | | | L.S. |
| | | | | | | **TRAFFIC** | | | | | | | | | | | | | | | | |
| 8 | 1124.00 | | 1124.00 | 6757 | L.F. | BEAM GUARDRAIL TYPE 31 | | | | | | | | | | | | | | | | |
| 9 | 2.00 | | 2.00 | 6719 | EACH | BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL | | | | | | | | | | | | | | | | |
| 10 | 39348.00 | | 39348.00 | 7432 | L.F. | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) | 784.00 | | 1,203.00 | | 1,345.00 | | 1,296.00 | | 1,311.00 | 1,284.00 | 1,156.00 | | 19,411.00 | | 1,727.00 | 1,403.00 |
| 11 | LUMP SUM | | LUMP SUM | 7434 | L.S. | ADDITIONAL HIGH-TENSION CABLE BARRIER COMPONENTS | | L.S. | | L.S. | | L.S. | | L.S. | | | | L.S. | | L.S. | | |
| 12 | 3.00 | | 3.00 | 7447 | EACH | TRANSPORTABLE ATTENUATOR | 1.00 | | | | | | | | | | | | 1.00 | | | 1.00 |
| 13 | 330.00 | | 330.00 | 7449 | HR | OPERATION OF TRANSPORTABLE ATTENUATOR | 6.00 | | 12.00 | | 12.00 | | 12.00 | | 12.00 | 12.00 | 12.00 | | 150.00 | | 12.00 | 12.00 |
| 14 | 3000.00 | | 3000.00 | 7450 | DOL | REPAIR TRANSPORTABLE ATTENUATOR | | | | | | | | | | | | | 3,000.00 | | | |
| 15 | 1650.00 | | 1650.00 | 6956 | HR | SEQUENTIAL ARROW SIGN | 30.00 | | 60.00 | | 60.00 | | 60.00 | | 60.00 | 60.00 | 60.00 | | 750.00 | | 90.00 | 60.00 |
| 16 | 1650.00 | | 1650.00 | 6993 | HR | PORTABLE CHANGEABLE MESSAGE SIGN | 30.00 | | 60.00 | | 60.00 | | 60.00 | | 60.00 | 60.00 | 60.00 | | 750.00 | | 90.00 | 60.00 |
| 17 | LUMP SUM | | LUMP SUM | 6973 | L.S. | OTHER TEMPORARY TRAFFIC CONTROL | L.S. | | L.S. | | L.S. | | L.S. | | L.S. | L.S. | L.S. | | L.S. | | L.S. | L.S. |
| 18 | 2640.00 | | 2640.00 | 6992 | HR | OTHER TRAFFIC CONTROL LABOR | 48.00 | | 96.00 | | 96.00 | | 96.00 | | 96.00 | 96.00 | 96.00 | | 1,200.00 | | 144.00 | 96.00 |
| 19 | LUMP SUM | | LUMP SUM | 6974 | L.S. | TRAFFIC CONTROL SUPERVISOR | L.S. | | L.S. | | L.S. | | L.S. | | L.S. | L.S. | L.S. | | L.S. | | L.S. | L.S. |
| | | | | | | **OTHER ITEMS** | | | | | | | | | | | | | | | | |
| 20 | 10000.00 | | 10000.00 | 7480 | DOL | ROADSIDE CLEANUP | 5,000.00 | | | | | | | | | | | | | | | 5,000.00 |
| 21 | 5.00 | | 5.00 | 7725 | DOL | REIMBURSEMENT FOR THIRD PARTY DAMAGE | | | | | | | | | | | | | | | | |
| 22 | -1.00 | | -1.00 | 7728 | DOL | MINOR CHANGE | -1.00 | | | | | | | | | | | | | | | |
| 23 | LUMP SUM | | LUMP SUM | 7736 | L.S. | SPCC PLAN | L.S. | | | | | | | | | | | | | | | L.S. |

GROUP LEGEND

| GROUP NUMBER | SR | CONTROL SECTION | TAX SCHEDULE | FUND PARTICIPANTS |
|---|---|---|---|---|
| 1 | 090 | 190200 | ** | FED,STATE -MVA |
| 2 | 090 | 190200 | ** | STATE -MVA |
| 3 | 012 | 390811 | ** | FED,STATE -MVA |
| 4 | 012 | 390811 | ** | STATE -MVA |
| 5 | 082 | 030500 | ** | FED,STATE -MVA |
| 6 | 082 | 030500 | ** | STATE -MVA |
| 7 | 182 | 031410 | ** | FED,STATE -MVA |
| 8 | 182 | 031410 | ** | FED,STATE -MVA |

| DATE | REVISION | BY |
|---|---|---|

| REGION | STATE | FEDERAL AID PROJECT. NO. |
|---|---|---|
| 10 | WA | NHPP-9999(829) |

JOB NUMBER 19Y002/2

CONTRACT NO 000000

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

SUMMARY OF QUANTITIES

SQ1

SHEET 3 OF 29 SHEETS

# SUMMARY OF QUANTITIES

| ITEM NO | TOTAL QUANTITY | SUB-TOTAL SECTION I-07.2(1) OF STANDARD SPECS | SUB-TOTAL SECTION I-07.2(2) OF STANDARD SPECS | STD. ITEM NO. | UNIT | ITEM | GROUP 9 I-82, SECTION 10, KEENE RD U/C | GROUP 8 I-182, SECTION 11, SR 240 I/C | GROUP 9 I-182, SECTION 11, SR 240 I/C | GROUP 8 I-182, SECTION 12, JADWIN AVE I/C | GROUP 9 I-182, SECTION 12, JADWIN AVE I/C | GROUP 8 I-182, SECTION 13, SR 240 I/C S-E RAMP | GROUP 9 I-182, SECTION 13, SR 240 I/C S-E RAMP | GROUP 8 I-182, SECTION 14, SR 240 I/C W-W RAMP | GROUP 10 SR 240, SECTION 15, EDISON ST I/C | GROUP 11 US 395, SECTION 16, KARTCHNER ST I/C | GROUP 12 US 395, SECTION 17, SR 260 I/C | GROUP 13 US 12, SECTION 18, LEWIS ST I/C | GROUP 14 THIRD PARTY DAMAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **PREPARATION** | | | | | | | | | | | | | |
| 1 | LUMP SUM | | LUMP SUM | 0001 | L.S. | MOBILIZATION | | L.S. | | L.S. | | L.S. | | L.S. | L.S. | L.S. | L.S. | L.S. | |
| 2 | | | | 0170 | L.F. | REMOVING GUARDRAIL | | | | | | 50.00 | | 50.00 | | | | | |
| 3 | | | | 0182 | EACH | REMOVING GUARDRAIL ANCHOR | | | | | | 2.00 | | | | | | | |
| 4 | | | | | L.F. | REMOVING HIGH TENSION CABLE BARRIER SYSTEM | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | **EROSION CONTROL AND ROADSIDE PLANTING** | | | | | | | | | | | | | |
| 5 | | | | 6403 | DAY | ESC LEAD | | 1.00 | | 1.00 | | 1.00 | | 1.00 | | | | | |
| 6 | | | | 6471 | EACH | INLET PROTECTION | | | | | | | | | | | | | |
| 7 | LUMP SUM | | LUMP SUM | 6488 | L.S. | EROSION CONTROL AND WATER POLLUTION PREVENTION | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | **TRAFFIC** | | | | | | | | | | | | | |
| 8 | | | | 6757 | L.F. | BEAM GUARDRAIL TYPE 31 | | | | | | 622.00 | | 502.00 | | | | | |
| 9 | | | | 6719 | EACH | BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL | | | | | | 1.00 | | 1.00 | | | | | |
| 10 | | | | 7432 | L.F. | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) | | 1,285.00 | | 1,289.00 | | 600.00 | | 600.00 | 703.00 | 980.00 | 1,351.00 | 1,620.00 | |
| 11 | LUMP SUM | | LUMP SUM | 7434 | L.S. | ADDITIONAL HIGH-TENSION CABLE BARRIER COMPONENTS | L.S. | | L.S. | | L.S. | | L.S. | | | | | | |
| 12 | | | | 7447 | EACH | TRANSPORTABLE ATTENUATOR | | | | | | | | | | | | | |
| 13 | | | | 7449 | HR | OPERATION OF TRANSPORTABLE ATTENUATOR | | 12.00 | | 12.00 | | 6.00 | | 6.00 | 6.00 | 12.00 | 12.00 | 12.00 | |
| 14 | | | | 7450 | DOL | REPAIR TRANSPORTABLE ATTENUATOR | | | | | | | | | | | | | |
| 15 | | | | 6956 | HR | SEQUENTIAL ARROW SIGN | | 30.00 | | 60.00 | | 30.00 | | 30.00 | 30.00 | 60.00 | 60.00 | 60.00 | |
| 16 | | | | 6993 | HR | PORTABLE CHANGEABLE MESSAGE SIGN | | 30.00 | | 60.00 | | 30.00 | | 30.00 | 30.00 | 60.00 | 60.00 | 60.00 | |
| 17 | LUMP SUM | | LUMP SUM | 6973 | L.S. | OTHER TEMPORARY TRAFFIC CONTROL | | L.S. | | L.S. | | L.S. | | L.S. | L.S. | L.S. | L.S. | L.S. | |
| 18 | | | | 6992 | HR | OTHER TRAFFIC CONTROL LABOR | | 48.00 | | 96.00 | | 48.00 | | 48.00 | 48.00 | 96.00 | 96.00 | 96.00 | |
| 19 | LUMP SUM | | LUMP SUM | 6974 | L.S. | TRAFFIC CONTROL SUPERVISOR | | L.S. | | L.S. | | L.S. | | L.S. | L.S. | L.S. | L.S. | L.S. | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | **OTHER ITEMS** | | | | | | | | | | | | | |
| 20 | | | | 7480 | DOL | ROADSIDE CLEANUP | | | | | | | | | | | | | |
| 21 | | | | 7725 | DOL | REIMBURSEMENT FOR THIRD PARTY DAMAGE | | | | | | | | | | | | | 5.00 |
| 22 | | | | 7728 | DOL | MINOR CHANGE | | | | | | | | | | | | | |
| 23 | LUMP SUM | | LUMP SUM | 7736 | L.S. | SPCC PLAN | | | | | | | | | | | | | |

GROUP LEGEND

| GROUP NUMBER | SR | CONTROL SECTION | TAX SCHEDULE | FUND PARTICIPANTS |
|---|---|---|---|---|
| 8 | 182 | 031410 | ** | FED,STATE -MVA |
| 9 | 182 | 031410 | ** | STATE -MVA |
| 10 | 240 | 030411 | ** | FED,STATE -MVA |
| 11 | 395 | 110110 | ** | FED,STATE -MVA |
| 12 | 395 | 110112 | ** | FED,STATE -MVA |
| 13 | 012 | 110210 | ** | FED,STATE -MVA |
| 14 | 082 | 030500 | ** | STATE 3RD PARTY |

| DATE | REVISION | BY |
|---|---|---|

| REGION | STATE | FEDERAL AID PROJECT. NO. |
|---|---|---|
| 10 | WA | NHPP-9999(829) |

JOB NUMBER 19Y002/2

CONTRACT NO 000000

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

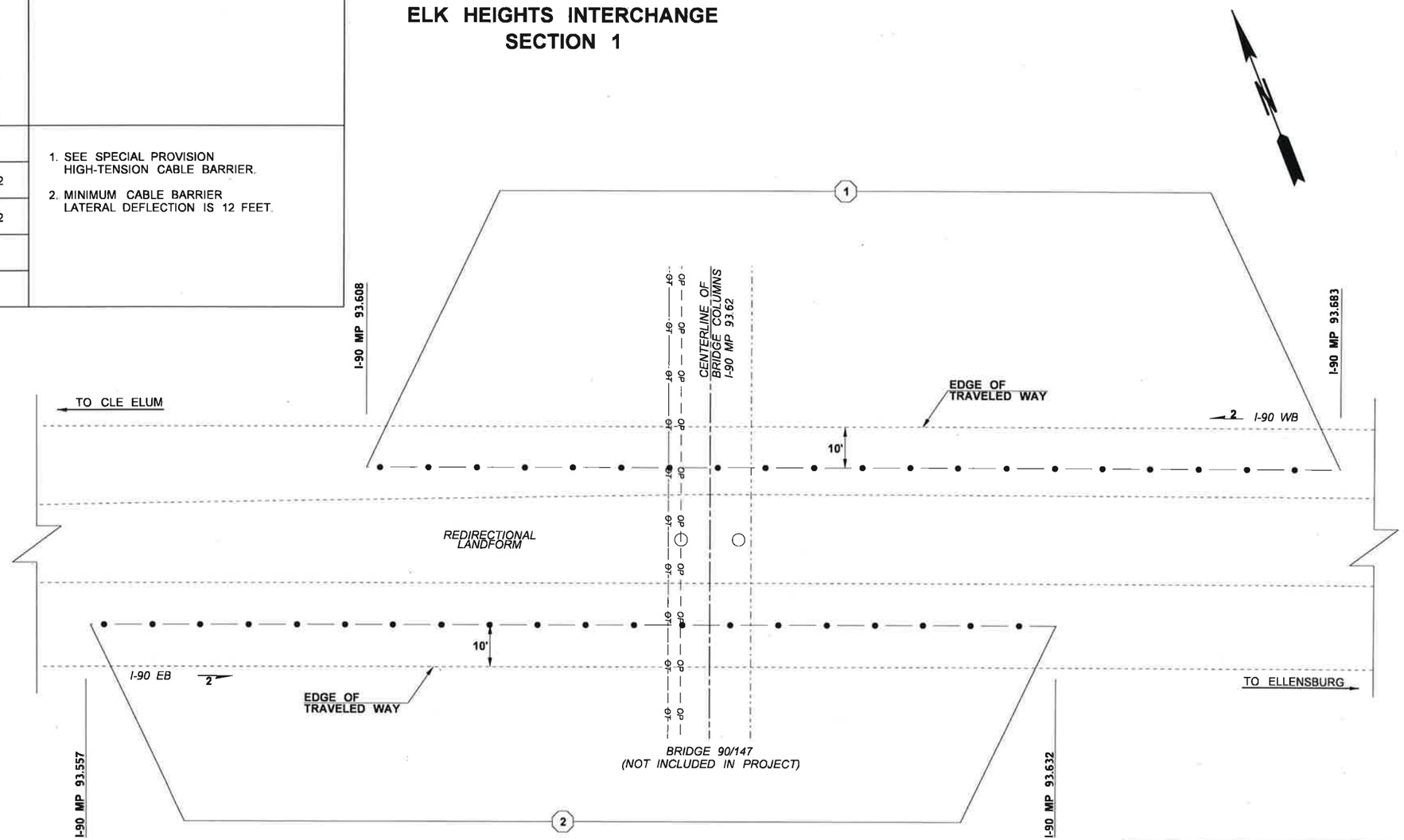
SUMMARY OF QUANTITIES

| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | MP 93.608 TO MP 93.683 WB | 392 | 1, 2 |
| 2 | MP 93.557 TO MP 93.632 EB | 392 | 1, 2 |
| | | | |
| SHEET TOTAL | | 784 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.19N. R.16E.
## I-90
## ELK HEIGHTS INTERCHANGE
## SECTION 1




NOTE:

1. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR MUST VERIFY.

NOT TO SCALE

**LEGEND**

- (#) QUANTITY TABULATION NOTE
- •—— HIGH-TENSION CABLE BARRIER
- OP — OVERHEAD POWERLINE
- OT — OVERHEAD TELEPHONE LINE

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:30 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | T. BURLINGAME |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER

4/29/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

**SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER**

**PLAN SHEET - SECTION 1**

Plot 1

PLAN REF NO P1

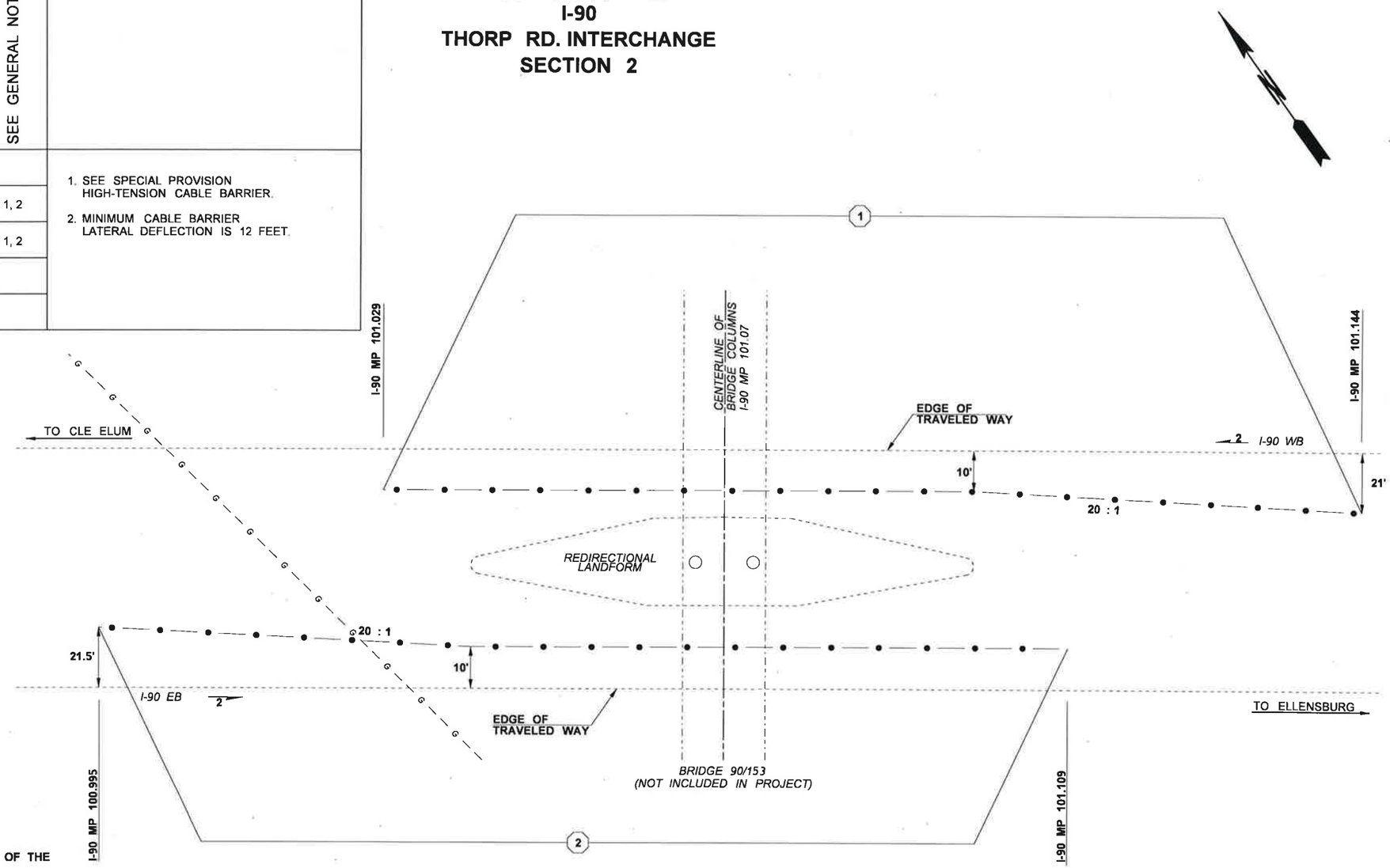
SHEET 5 OF 29 SHEETS

| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | MP 101.029 TO MP 101.144 WB | 604 | 1, 2 |
| 2 | MP 100.995 TO MP 101.109 EB | 599 | 1, 2 |
| | | | |
| SHEET TOTAL | | 1203 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.18N. R.17E.
## I-90
## THORP RD. INTERCHANGE
## SECTION 2




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.
2. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR MUST VERIFY.

NOT TO SCALE

**LEGEND**

- (#) QUANTITY TABULATION NOTE
- HIGH-TENSION CABLE BARRIER
- G NATURAL GAS LINE

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:31 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | T. BURLINGAME |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER

4/29/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 2

Plot 2

PLAN REF NO P2

SHEET 6 OF 29 SHEETS

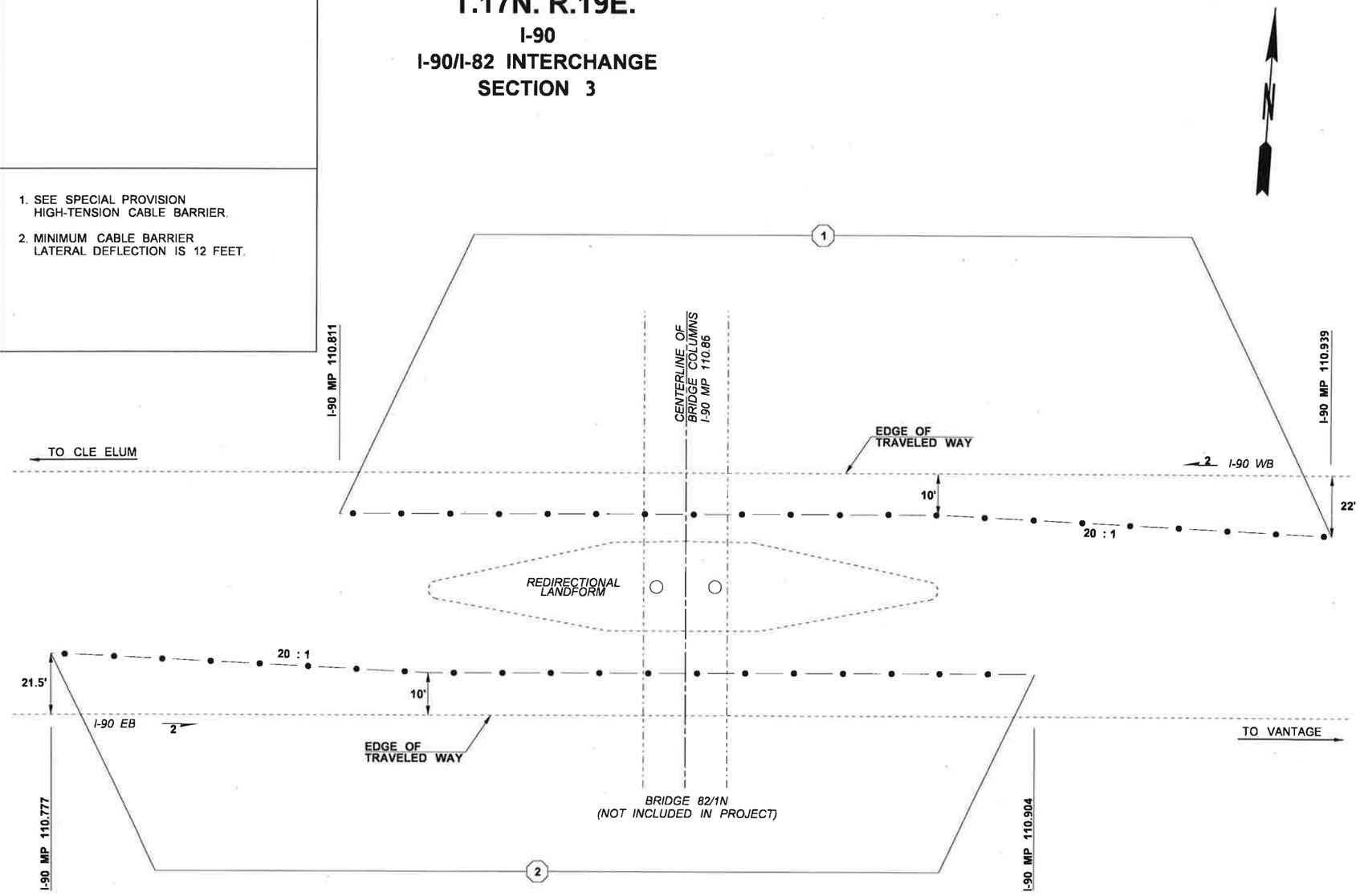
| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | MP 110.811 TO MP 110.939 WB | 675 | 1, 2 |
| 2 | MP 110.777 TO MP 110.904 EB | 670 | 1, 2 |
| | | | |
| SHEET TOTAL | | 1,345 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.17N. R.19E.

## I-90
## I-90/I-82 INTERCHANGE
## SECTION 3




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.

NOT TO SCALE

**LEGEND**

(#) QUANTITY TABULATION NOTE

-•— HIGH-TENSION CABLE BARRIER

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:32 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | T. BURLINGAME |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 54272, REGISTERED PROFESSIONAL ENGINEER

4/24/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 3

Plot 3

PLAN REF NO P3

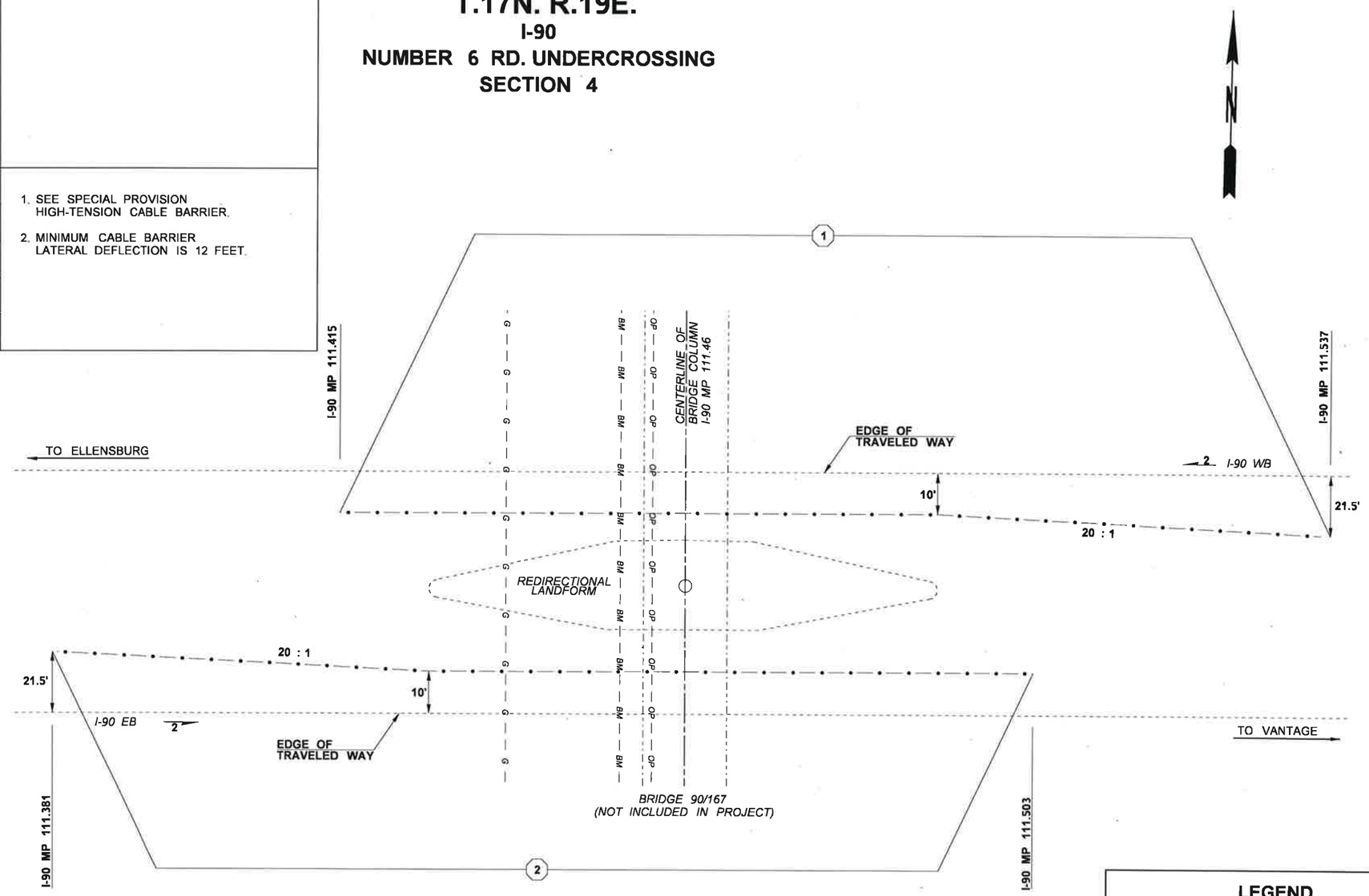
SHEET 7 OF 29 SHEETS

| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | MP 111.415 TO MP 111.537 WB | 648 | 1, 2 |
| 2 | MP 111.381 TO MP 111.503 EB | 648 | 1, 2 |
| | | | |
| SHEET TOTAL | | 1,296 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.17N. R.19E.
## I-90
## NUMBER 6 RD. UNDERCROSSING
## SECTION 4




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.
2. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR MUST VERIFY.

NOT TO SCALE

## LEGEND

| | |
|---|---|
| # | QUANTITY TABULATION NOTE |
| - • — | HIGH-TENSION CABLE BARRIER |
| - BM — | BURIED MULTIPLE UTILITY LINE |
| - G — | NATURAL GAS LINE |
| - OP — | OVERHEAD POWERLINE |

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:33 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | T. BURLINGAME |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER

4/29/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 4

Plot 4

PLAN REF NO P4

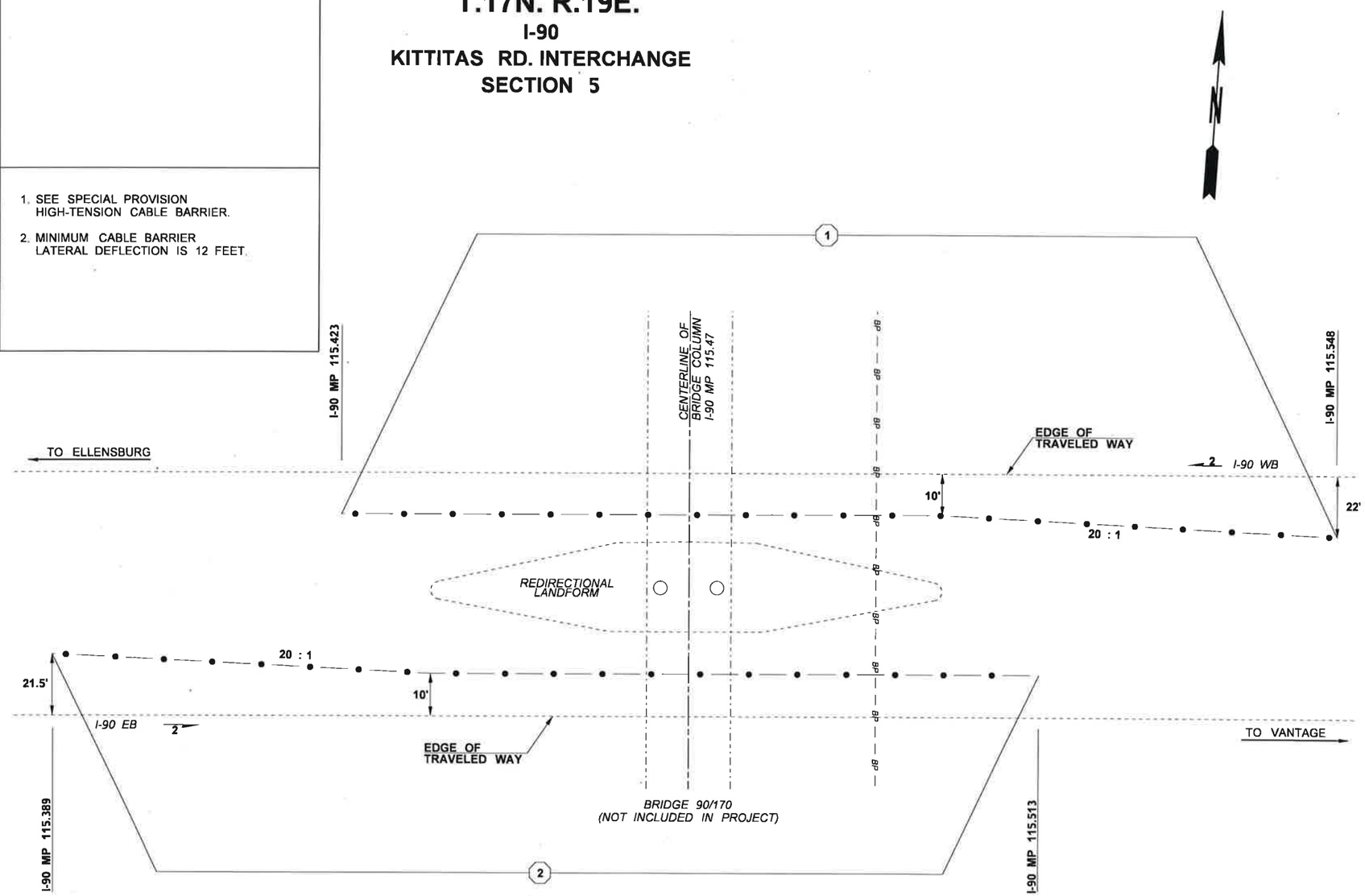
SHEET 8 OF 29 SHEETS

| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | MP 115.423 TO MP 115.548 WB | 658 | 1, 2 |
| 2 | MP 115.389 TO MP 115.513 EB | 653 | 1, 2 |
| | | | |
| SHEET TOTAL | | 1,311 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.17N. R.19E.
## I-90
## KITTITAS RD. INTERCHANGE
## SECTION 5




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.
2. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR MUST VERIFY.

NOT TO SCALE

**LEGEND**

- (#) QUANTITY TABULATION NOTE
- HIGH-TENSION CABLE BARRIER
- BP BURIED POWERLINE

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:35 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | T. BURLINGAME |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 54272, REGISTERED PROFESSIONAL ENGINEER
4/29/19
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 5

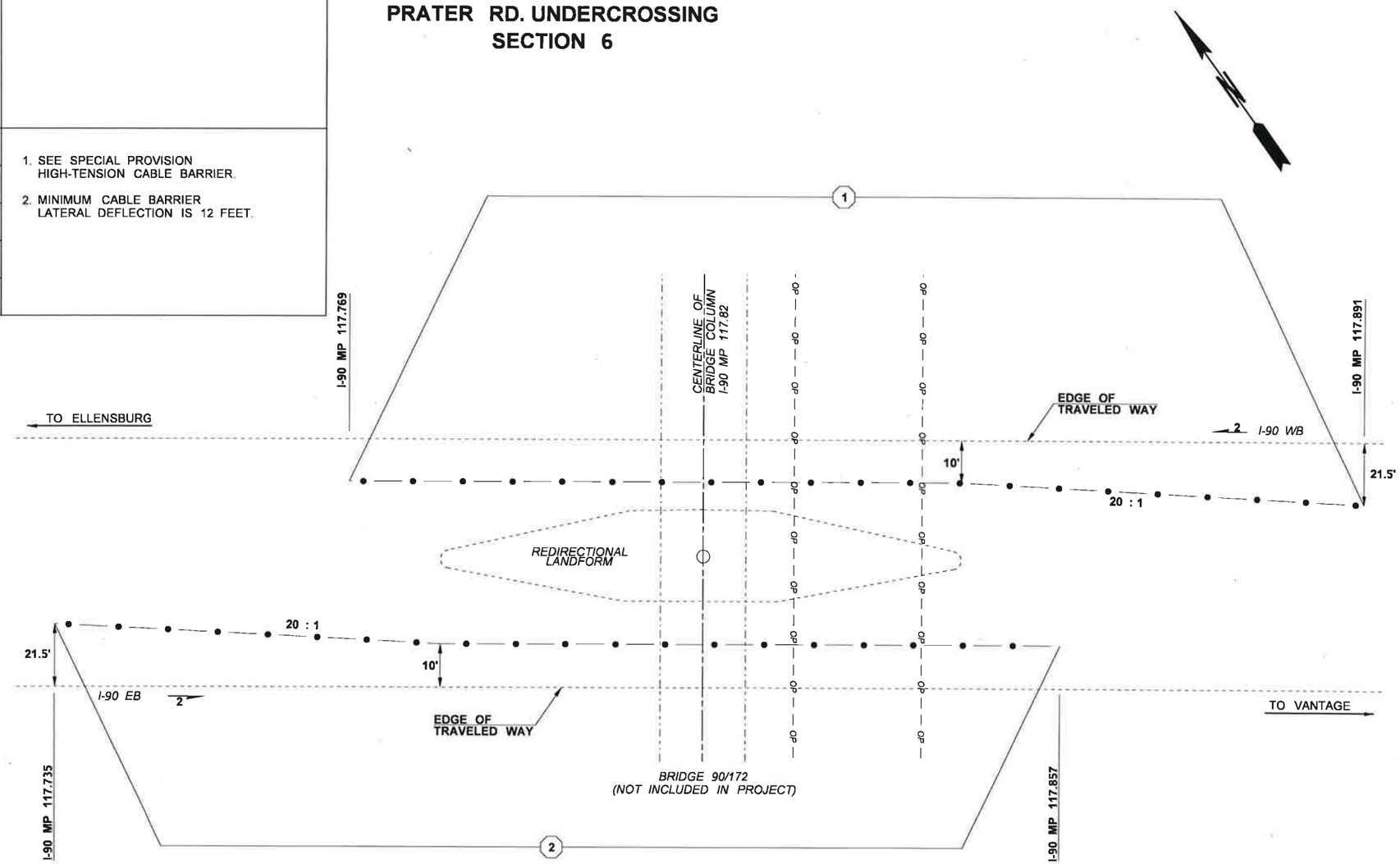
Plot 5
PLAN REF NO P5
SHEET 9 OF 29 SHEETS

| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | MP 117.769 TO MP 117.891 WB | 642 | 1, 2 |
| 2 | MP 117.735 TO MP 117.857 EB | 642 | 1, 2 |
| | | | |
| SHEET TOTAL | | 1,284 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.17N. R.20E.
## I-90
## PRATER RD. UNDERCROSSING
## SECTION 6




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.
2. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR MUST VERIFY.

NOT TO SCALE

**LEGEND**

- (#) QUANTITY TABULATION NOTE
- -•— HIGH-TENSION CABLE BARRIER
- -OP— OVERHEAD POWERLINE

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:36 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | T. BURLINGAME |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER

Scott Allen Golbek

4/29/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 6

Plot 6

PLAN REF NO P6

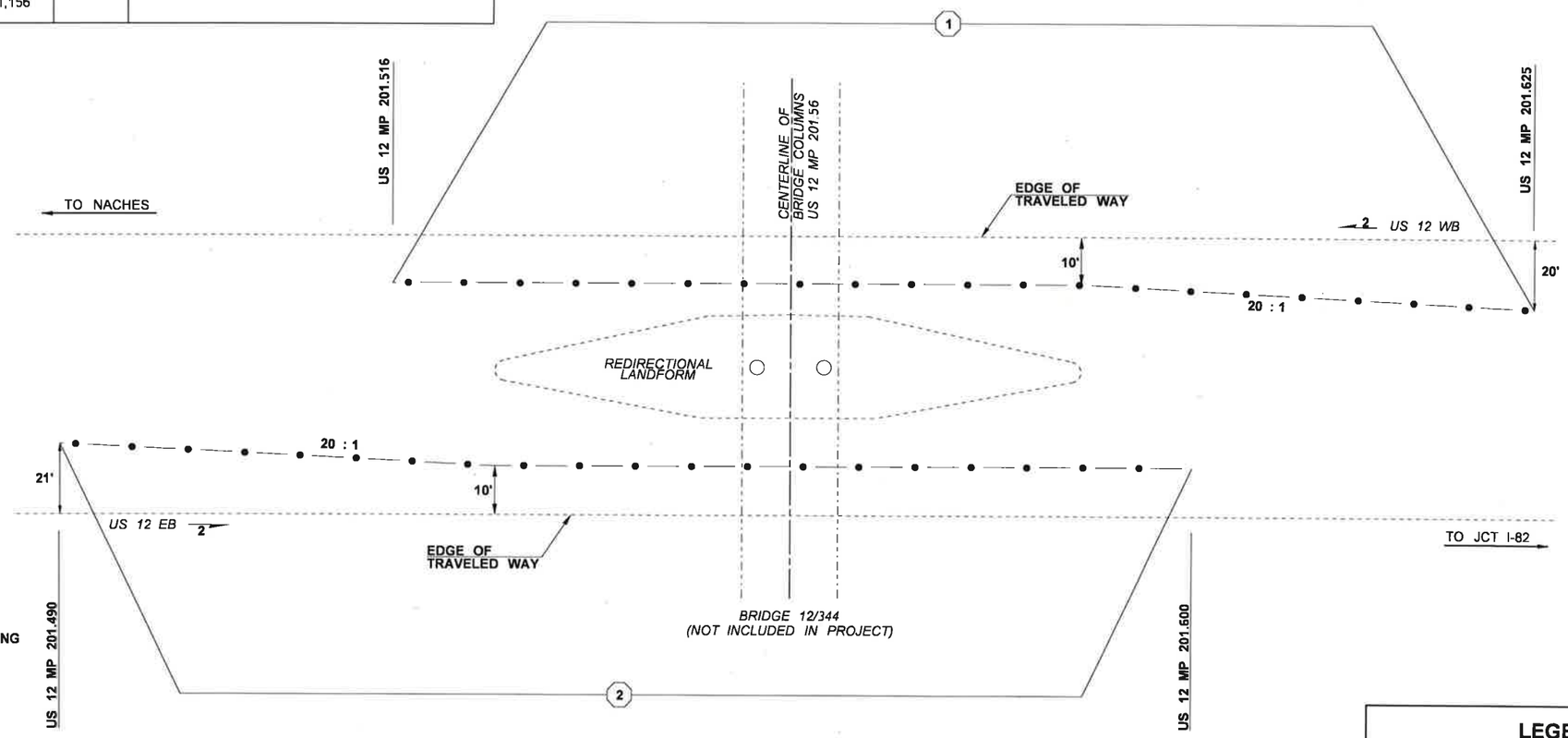
SHEET 10 OF 29 SHEETS

| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | MP 201.516 TO MP 201.625 WB | 578 | 1, 2 |
| 2 | MP 201.490 TO MP 201.600 EB | 578 | 1, 2 |
| | | | |
| SHEET TOTAL | | 1,156 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER SYSTEM.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.13N. R.18E.
## US 12
## 16TH AVE. INTERCHANGE
## SECTION 7




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.

NOT TO SCALE

**LEGEND**

(#) QUANTITY TABULATION NOTE

HIGH-TENSION CABLE BARRIER

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:37 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | T. BURLINGAME |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER

4/29/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 7

Plot 7

PLAN REF NO P7

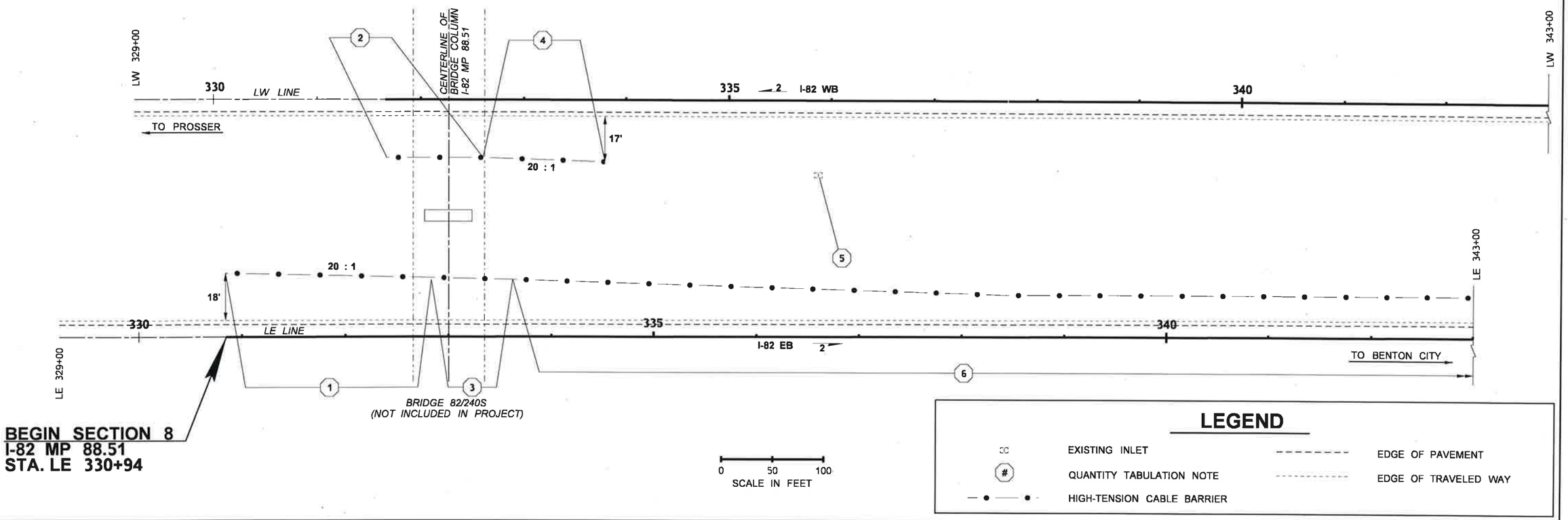
SHEET 11 OF 29 SHEETS

| CODE | LOCATION | REMOVING HIGH-TENSION CABLE BARRIER SYSTEM | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) | INLET PROTECTION | SEE GENERAL NOTES |
|---|---|---|---|---|---|
| | | LF | LF | | |
| 1 | LE 330+94 (28.6' LT) TO LE 332+84 (20' LT) | 257 | 190 | | 1,2 |
| 2 | LW 331+67 (19' RT) TO LW 332+60 (20' RT) | 93 | 93 | | 1,2 |
| 3 | LE 332+84 (20' LT) TO LE 333+77 (20' LT) | 93 | 93 | | 1,2 |
| 4 | LW 332+60 (20' RT) TO LW 334+40 (23.5' RT) | 120 | 180 | | 1,2 |
| 5 | LW 335+87 (35' RT) | | | 1 | |
| 6 | LE 333+77 (20' LT) TO LE 366+10 (20' LT) | 3233 | 3233 | | 1,2 |
| SHEET TOTAL | | 3,796 | 3,789 | 1 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.9N. R.25E.
## I-82
## GIBBON RD. UNDERCROSSING
## SECTION 8




## LEGEND

| | | | |
|---|---|---|---|
| CC | EXISTING INLET | - - - - - - - - | EDGE OF PAVEMENT |
| (#) | QUANTITY TABULATION NOTE | - - - - - - - - | EDGE OF TRAVELED WAY |
| —●—●— | HIGH-TENSION CABLE BARRIER | | |

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:38 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | T. BURLINGAME |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER

4/22/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 8

Plot 8

PLAN REF NO P8

SHEET 12 OF 29 SHEETS

# T.9N. R.26E.
## I-82
## GIBBON RD. UNDERCROSSING
## SECTION 8

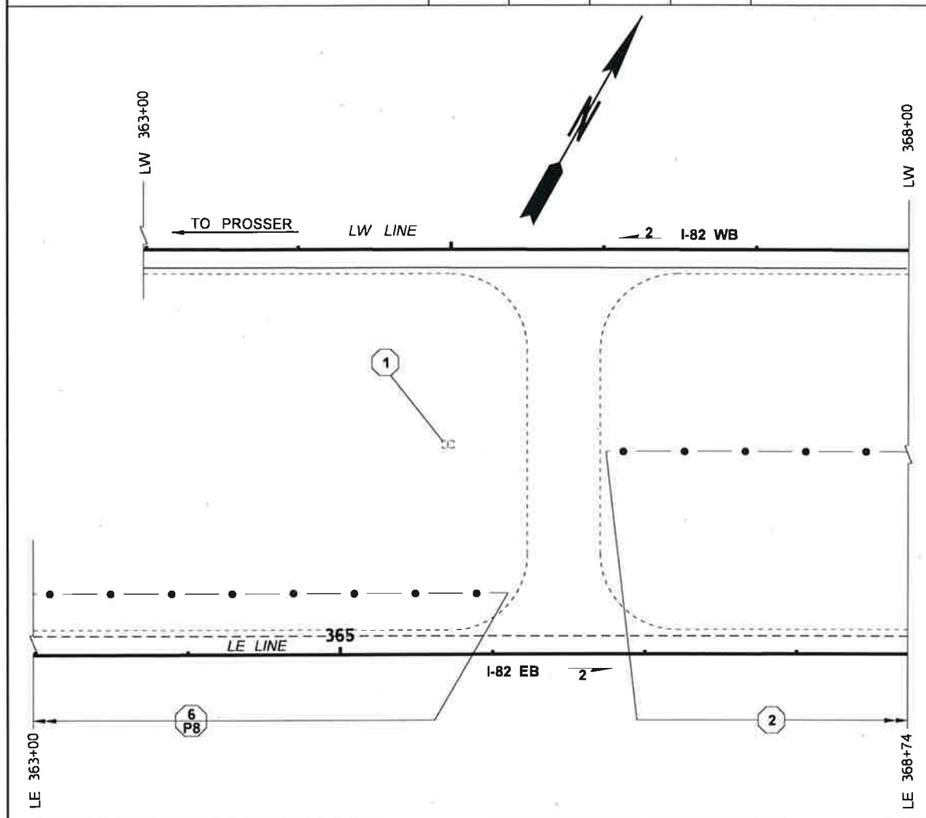
**NOTE:**

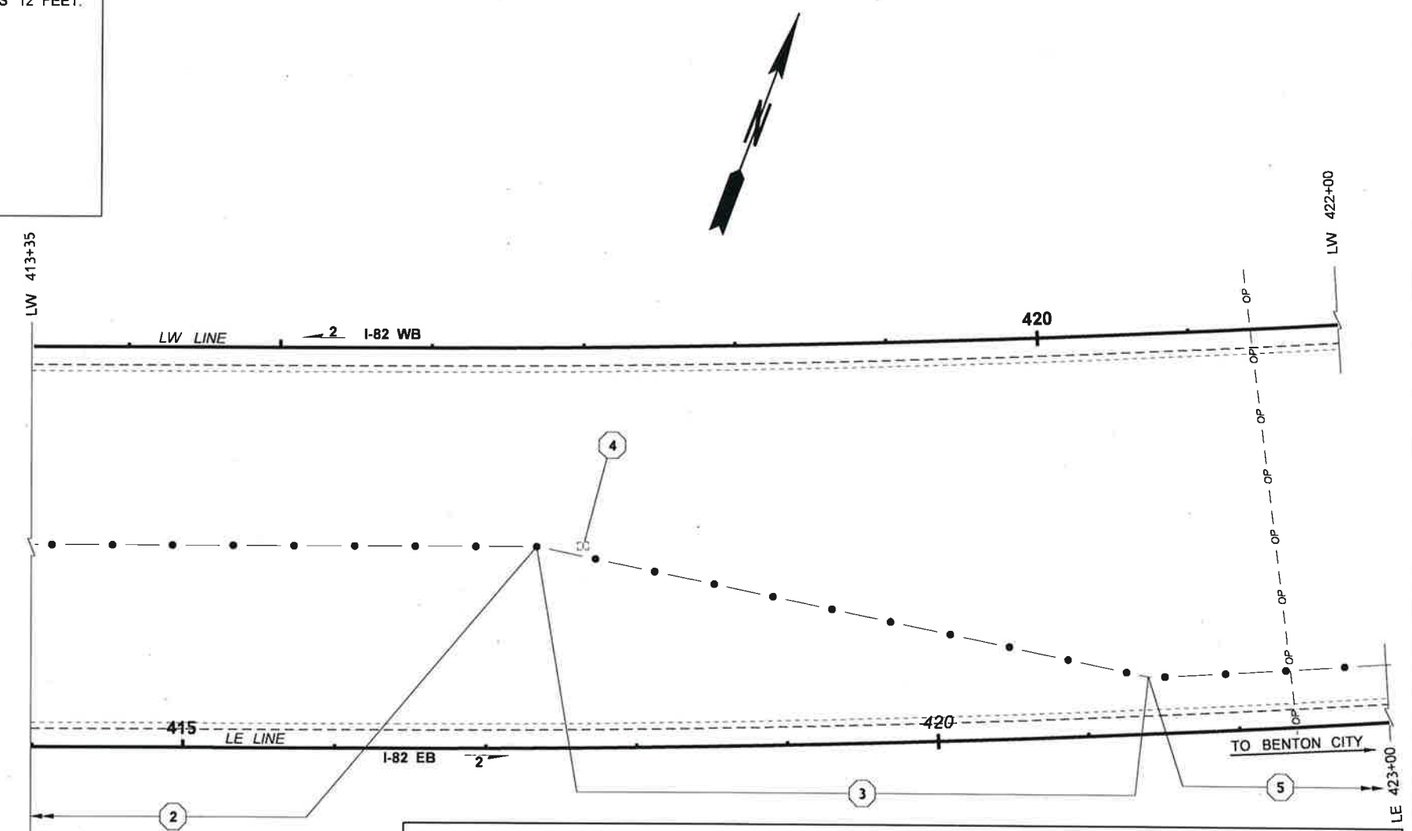
1. **LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR MUST VERIFY.**

| CODE | LOCATION | REMOVING HIGH-TENSION CABLE BARRIER SYSTEM | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) | INLET PROTECTION | SEE GENERAL NOTES |
|---|---|---|---|---|---|
| | | LF | LF | | |
| 1 | LW 364+98 (34' RT) | | | 1 | |
| 2 | LE 366+75 (33' LT) TO LE 417+30 (32' LT) | 5055 | 5055 | | 1,2 |
| 3 | LE 417+30 (32' LT) TO LE 421+34 (20' LT) | 404 | 404 | | 1,2 |
| 4 | LE 417+75 (33' LT) | | | 1 | |
| 5 | LE 421+34 (20' LT) TO LE 522+95 (20' LT) | 10,163 | 10,163 | | 1,2 |
| SHEET TOTAL | | 15,622 | 15,622 | 2 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.




## LEGEND

| | | | |
|---|---|---|---|
| | EXISTING INLET | OP — OP | OVERHEAD POWERLINE |
| # | QUANTITY TABULATION NOTE | | EDGE OF PAVEMENT |
| # # | QUANTITY TABULATION CONTINUED | | EDGE OF TRAVELED WAY |
| | HIGH-TENSION CABLE BARRIER | | |

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:39 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | T. BURLINGAME |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK — STATE OF WASHINGTON — 34272 — REGISTERED PROFESSIONAL ENGINEER

4/29/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

**SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER**

**PLAN SHEET - SECTION 8**

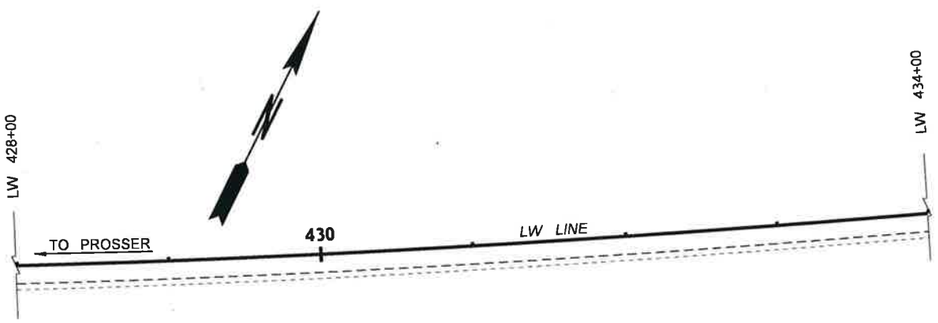
Plot 9

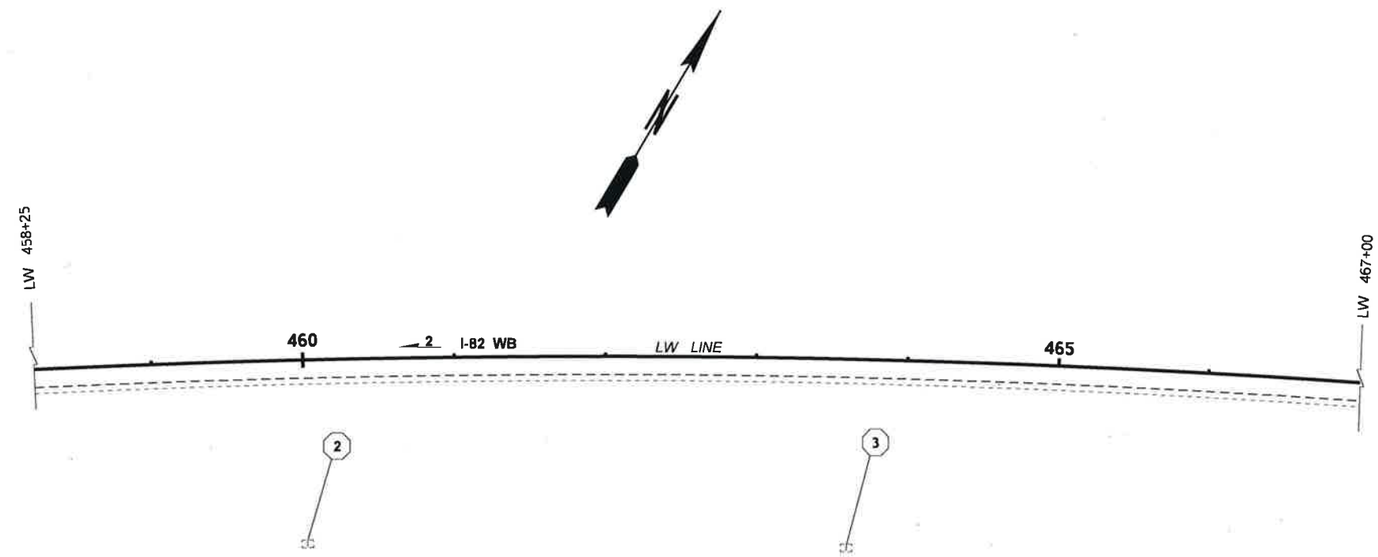
PLAN REF NO P9

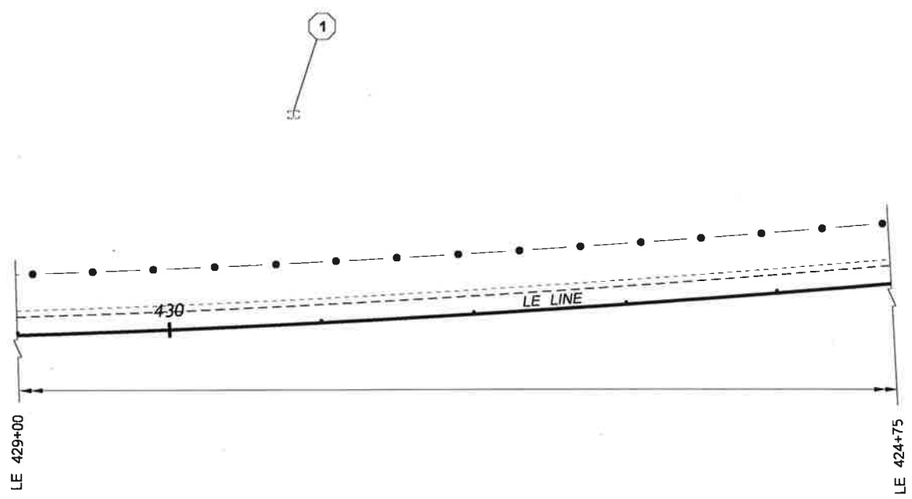
SHEET 13 OF 29 SHEETS

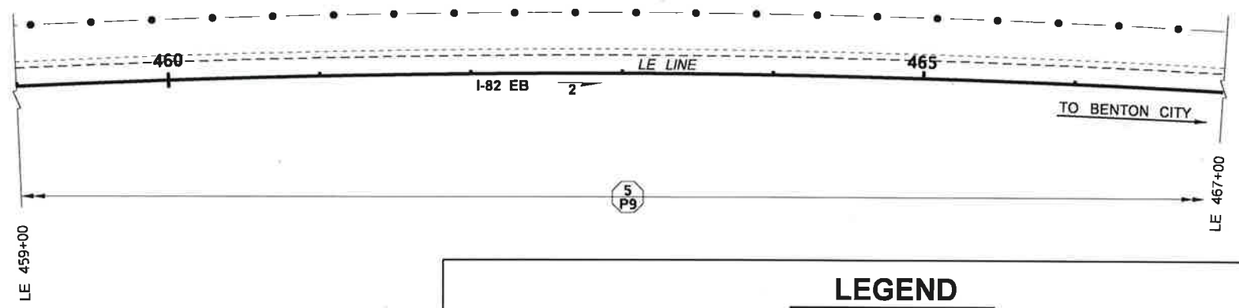
| CODE | LOCATION | INLET PROTECTION LF | SEE GENERAL NOTES | GENERAL NOTES: |
|---|---|---|---|---|
| 1 | LE 430+86 (30' LT) | 1 | | |
| 2 | LE 460+70 (31' LT) | 1 | | |
| 3 | LE 464+28 (25' LT) | 1 | | |
| SHEET TOTAL | | 3 | | |

# T.9N. R.26E.
## I-82
## GIBBON RD. UNDERCROSSING
## SECTION 8




0 50 100
SCALE IN FEET

## LEGEND

| | | | |
|---|---|---|---|
| | EXISTING INLET | | HIGH-TENSION CABLE BARRIER |
| # | QUANTITY TABULATION NOTE | | EDGE OF PAVEMENT |
| # # | HIGH-TENSION CABLE BARRIER | | EDGE OF TRAVELED WAY |

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:40 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | T. BURLINGAME |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK — STATE OF WASHINGTON — 34272 — REGISTERED PROFESSIONAL ENGINEER

4/29/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 8

Plot 10

PLAN REF NO P10

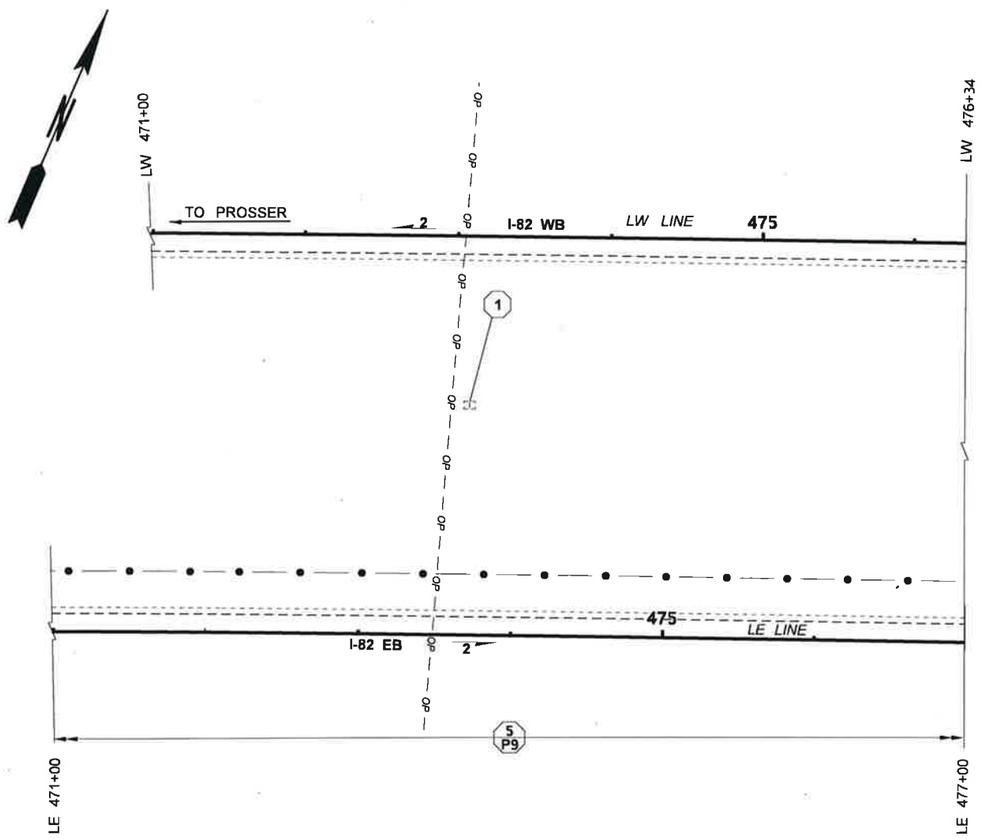
SHEET 14 OF 29 SHEETS

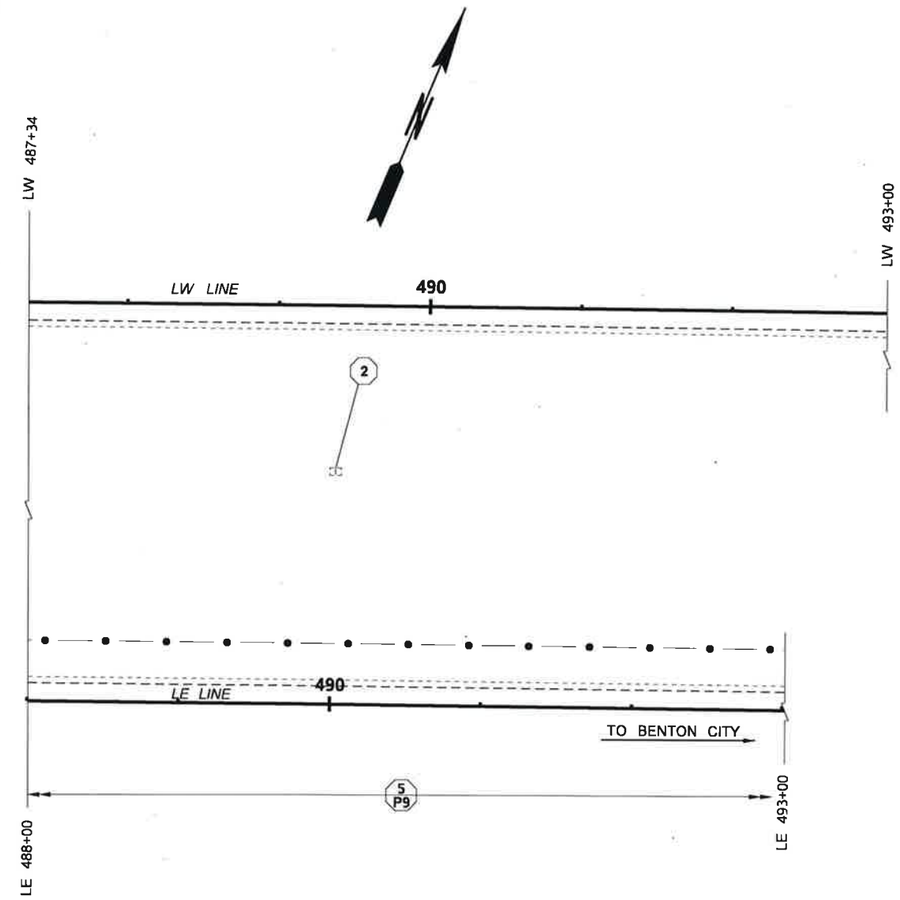
| | | INLET PROTECTION | SEE GENERAL NOTES | GENERAL NOTES: |
|---|---|---|---|---|
| CODE | LOCATION | LF | | |
| 1 | LE 473+72 (26' LT) | 1 | | |
| 2 | LE 490+00 (26' LT) | 1 | | |
| | | | | |
| SHEET TOTAL | | 2 | | |

# T.9N. R.26E.
## I-82
## GIBBON RD. UNDERCROSSING
## SECTION 8

**NOTE:**

1. **LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR MUST VERIFY.**




## LEGEND

| | | | |
|---|---|---|---|
| | EXISTING INLET | OP | OVERHEAD POWERLINE |
| # | QUANTITY TABULATION NOTE | | EDGE OF PAVEMENT |
| # # | QUANTITY TABULATION CONTINUED | | EDGE OF TRAVELED WAY |
| | HIGH-TENSION CABLE BARRIER | | |

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:41 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | T. BURLINGAME |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | JOB NUMBER 19Y002 | CONTRACT NO.

FED.AID PROJ.NO.

LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER

4/27/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

**SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER**

**PLAN SHEET - SECTION 8**

Plot 11

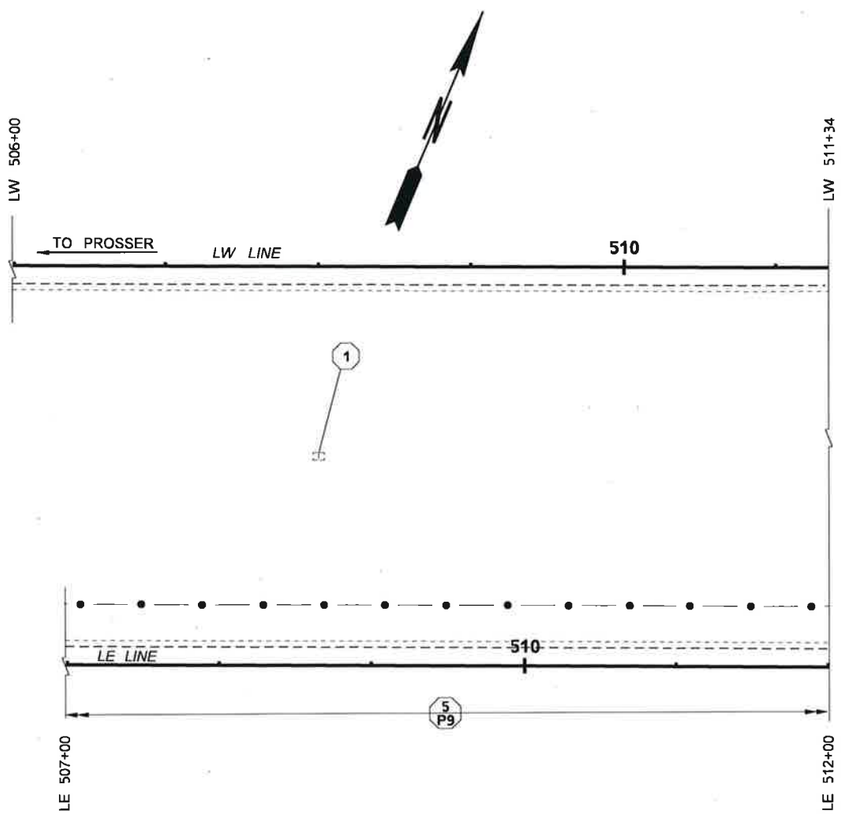
PLAN REF NO P11

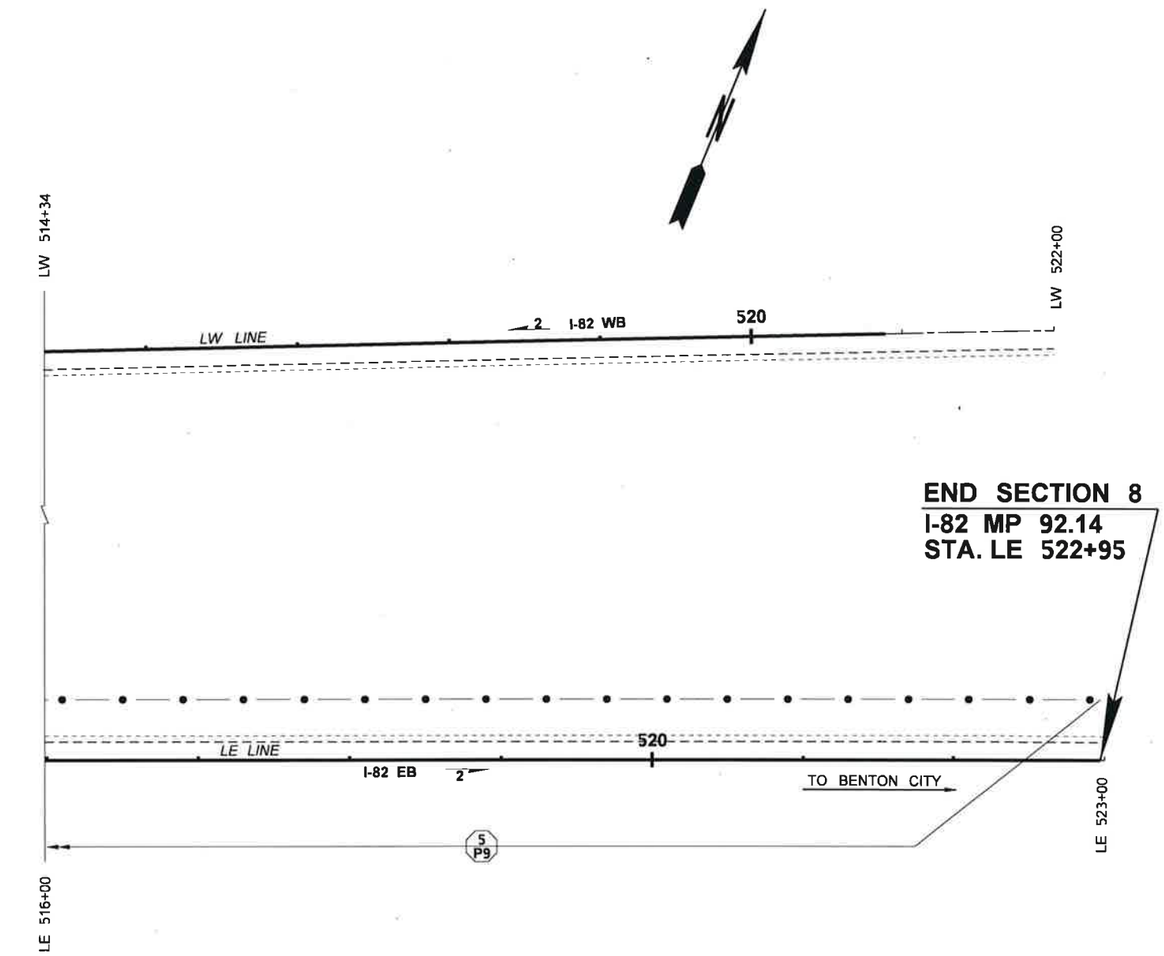
SHEET 15 OF 29 SHEETS

| CODE | LOCATION | INLET PROTECTION LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | LW 508+66 (27' RT) | 1 | |
| | | | |
| | | | |
| SHEET TOTAL | | 1 | |

GENERAL NOTES:

# T.9N. R.26E.
## I-82
## GIBBON RD. UNDERCROSSING
## SECTION 8




0 50 100
SCALE IN FEET

## LEGEND

| | | | |
|---|---|---|---|
| | EXISTING INLET | | HIGH-TENSION CABLE BARRIER |
| # | QUANTITY TABULATION NOTE | | EDGE OF PAVEMENT |
| # # | HIGH-TENSION CABLE BARRIER | | EDGE OF TRAVELED WAY |

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:43 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | T. BURLINGAME |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 38272, REGISTERED PROFESSIONAL ENGINEER
4/29/19
P.E. STAMP BOX | DATE

P.E. STAMP BOX | DATE

Washington State Department of Transportation

SCR REGION WIDE
REDIRECTIONAL LANDFORMS AND
MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 8

Plot 12
PLAN REF NO P12
SHEET 16 OF 29 SHEETS

| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | P2 MP 9.949 TO I-182 MP 0.112 WB | 859 | 1, 2 |
| 2 | P1 MP 9.914 TO MP 0.079 EB | 869 | 1, 2 |
| | | | |
| SHEET TOTAL | | 1,728 | |

GENERAL NOTES:

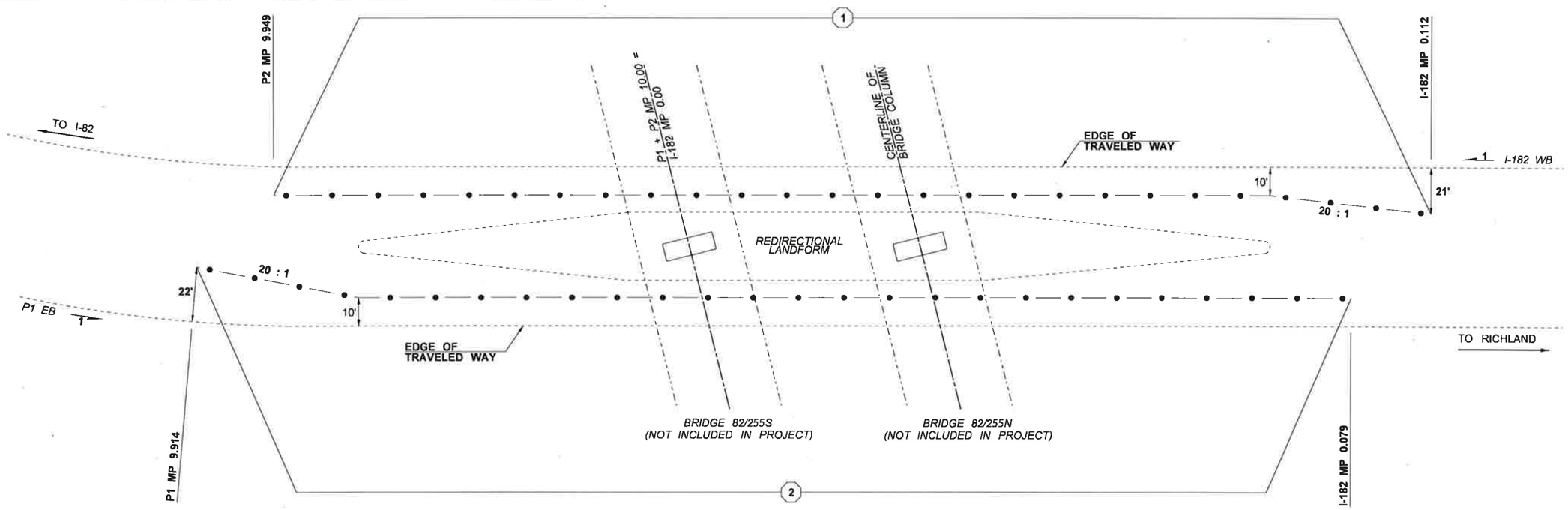
1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER SYSTEM.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.9N. R.28E.

## I-182

## I-82/I-182 INTERCHANGE

## SECTION 9




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.

NOT TO SCALE

**LEGEND**

- (#) QUANTITY TABULATION NOTE
- •— HIGH-TENSION CABLE BARRIER

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:44 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER

4/29/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 9

Plot 13

PLAN REF NO P13

SHEET 17 OF 29 SHEETS

| CODE | LOCATION | INLET PROTECTION EACH | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|---|
| 1 | I-182 MP 2.366 - I-182 2.499 WB | | 704 | 1, 2 |
| 2 | I-182 MP 2.331 - I-182 MP 2.464 EB | | 699 | 1, 2 |
| 3 | I-182 EB MP 2.367 (28' LT) | 1 | | |
| 4 | I-182 EB MP 2.408 (34' LT) | 1 | | |
| SHEET TOTAL | | 2 | 1,403 | |

GENERAL NOTES:

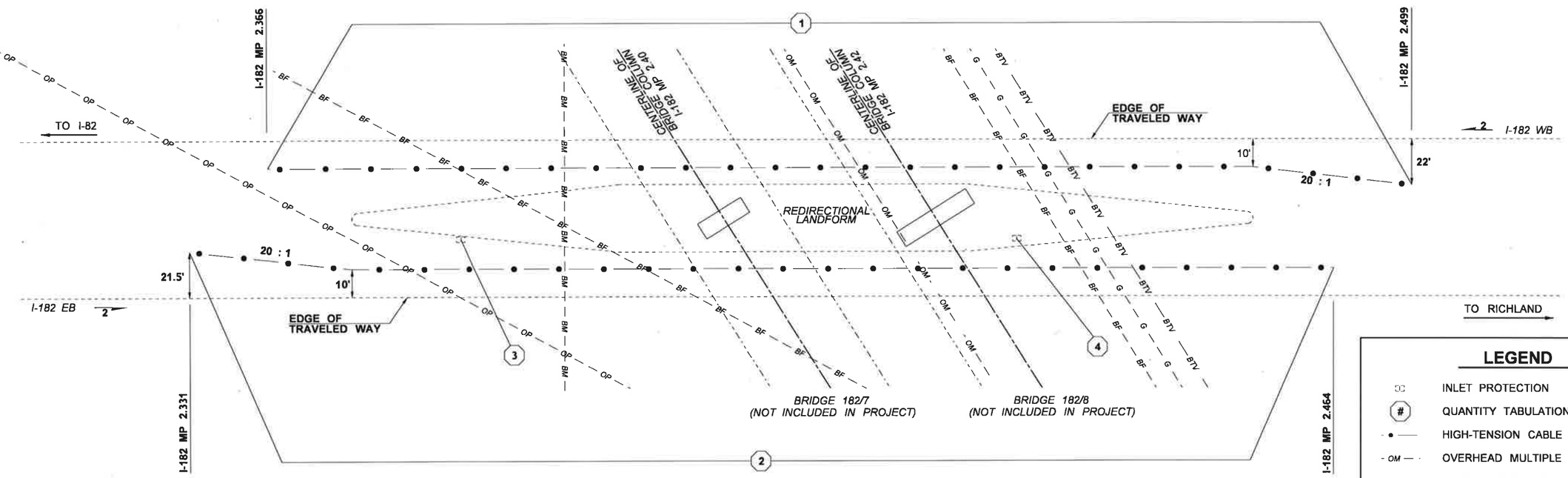
1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER SYSTEM.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.9N. R.28E.

## I-182

## KEENE RD. UNDERCROSSING

## SECTION 10




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.
2. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR MUST VERIFY.

NOT TO SCALE

## LEGEND

- INLET PROTECTION
- # QUANTITY TABULATION NOTE
- HIGH-TENSION CABLE BARRIER
- OM — OVERHEAD MULTIPLE UTILITY LINE
- BF — BURIED FIBER OPTIC LINE
- OP — OVERHEAD POWERLINE
- BM — BURIED MULTIPLE UTILITY LINE
- BTV — BURIED TELEVISION LINE
- G — NATURAL GAS LINE

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:49:11 AM |
| DATE | 4/16/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER

4/24/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 10

Plot 14

PLAN REF NO P14

SHEET 18 OF 29 SHEETS

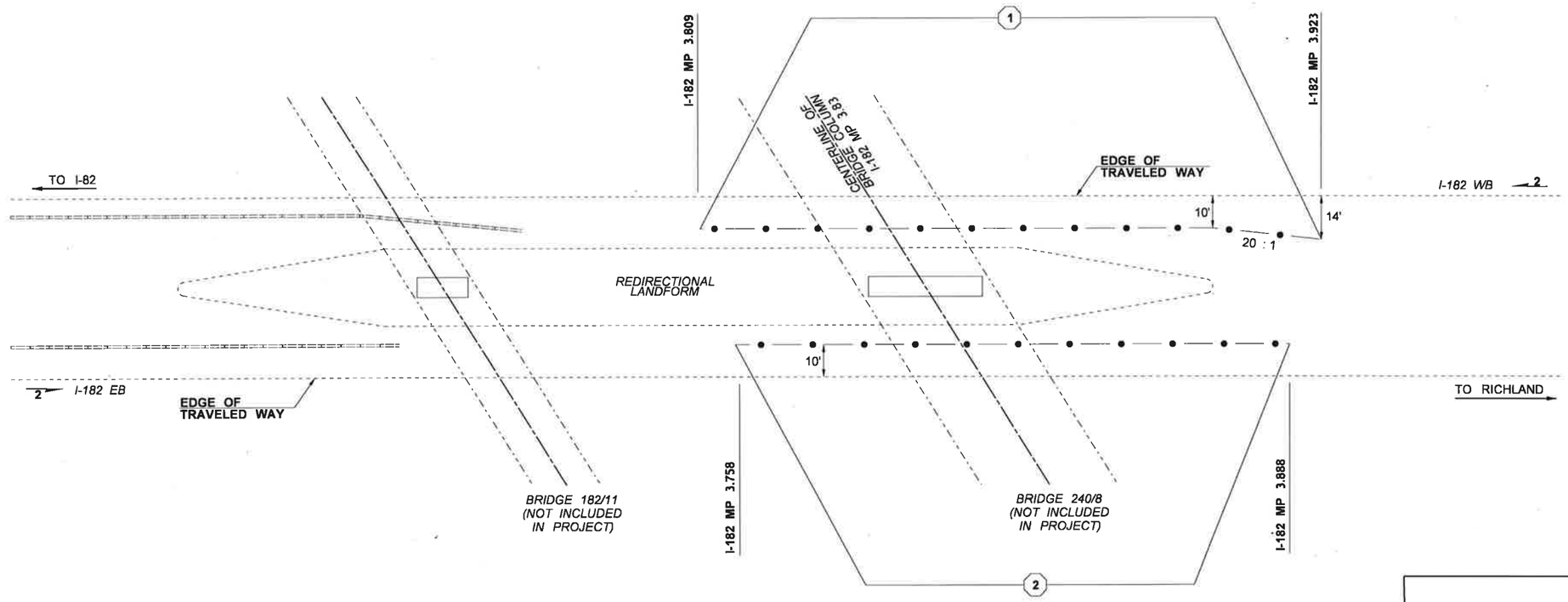
| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | I-182 MP 3.809 - I-182 3.923 WB | 600 | 1, 2 |
| 2 | I-182 MP 3.758 - I-182 MP 3.888 EB | 685 | 1, 2 |
| | | | |
| SHEET TOTAL | | 1,285 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER SYSTEM.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.9N. R.28E.

## I-182
## SR 240 INTERCHANGE
## SECTION 11




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.

NOT TO SCALE

**LEGEND**

- (#) QUANTITY TABULATION NOTE
- EXISTING CONRETE BARRIER
- HIGH-TENSION CABLE BARRIER

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:46 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER

4/29/19 DATE

P.E. STAMP BOX

P.E. STAMP BOX | DATE

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 11

Plot 15

PLAN REF NO P15

SHEET 19 OF 29 SHEETS

| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | I-182 MP 4.316 - I-182 4.439 WB | 647 | 1, 2 |
| 2 | I-182 MP 4.283 - I-182 MP 4.405 EB | 642 | 1, 2 |
| | | | |
| SHEET TOTAL | | 1,289 | |

GENERAL NOTES:

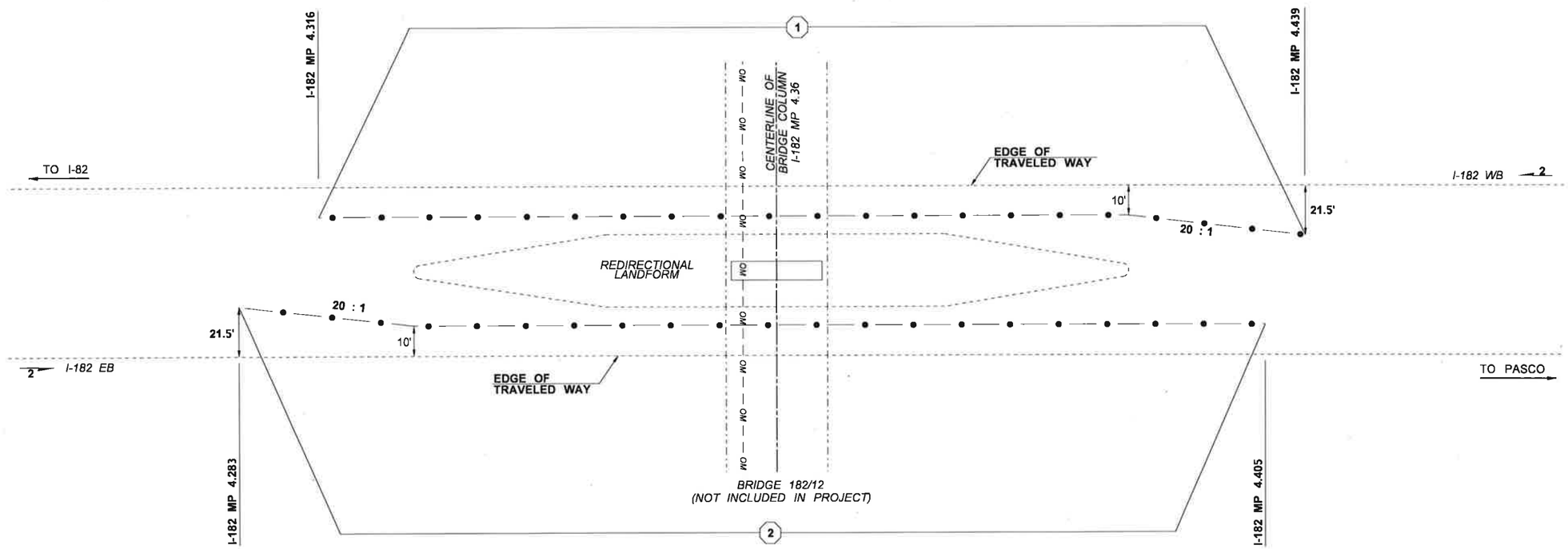
1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER SYSTEM.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.9N. R.28E.

## I-182

## JADWIN AVE UNDERCROSSING

## SECTION 12




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.
2. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR MUST VERIFY.

NOT TO SCALE

**LEGEND**

- (#) QUANTITY TABULATION NOTE
- -•— HIGH-TENSION CABLE BARRIER
- -OM— OVERHEAD MULTIPLE UTILITY LINE

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:47 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER — 4/29/19 DATE — P.E. STAMP BOX

DATE — P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 12

Plot 16

PLAN REF NO P16

SHEET 20 OF 29 SHEETS

# T.9N. R.28E.

## I-182

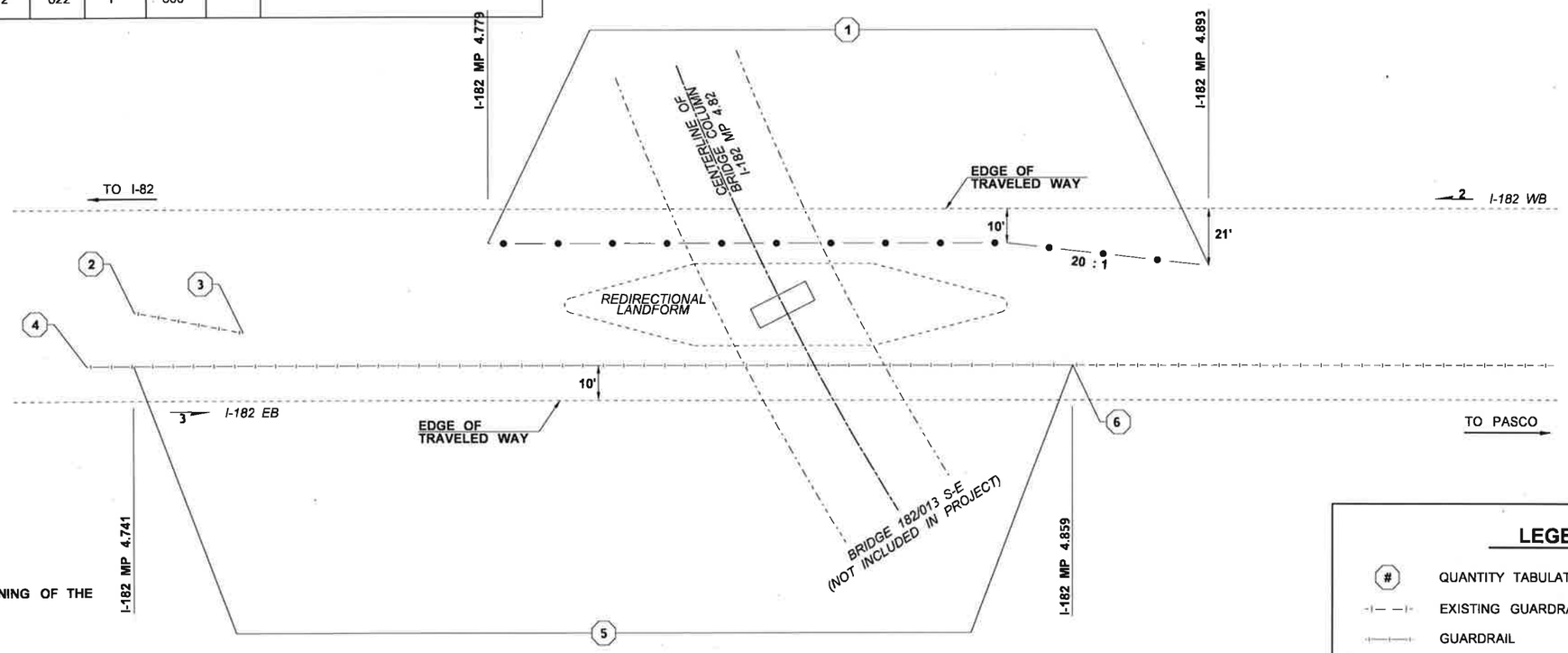
## SR 240 INTERCHANGE I-182 S-E RAMP

## SECTION 13

| CODE | LOCATION | REMOVING GUARDRAIL | REMOVING GUARDRAIL ANCHOR | BEAM GUARDRAIL TYPE 31 | BEAM GUARDRAIL TYPE 31 NON-FLARRED TERMINAL | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) | SEE GENERAL NOTES |
|---|---|---|---|---|---|---|---|
| | | LF | LF | EACH | EACH | LF | |
| 1 | I-182 PM 4.779 - I-182 MP 4.893 WB | | | | | 600 | 1, 2 |
| 2 | I-182 4.784 | | 1 | | | | |
| 3 | I-182 4.793 | | 1 | | | | |
| 4 | I-182 4.781 | | | | 1 | | |
| 5 | I-182 MP 4.741 - I-182 MP 4.859 EB | | | 622 | | | 3 |
| 6 | I-182 MP 4.859 | 50 | | | | | |
| | | | | | | | |
| SHEET TOTAL | | 50 | 2 | 622 | 1 | 600 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER SYSTEM.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.
3. BEAM GUARDRAIL TYPE 1 ADAPTOR REQUIRED.




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.

NOT TO SCALE

### LEGEND

- (#) QUANTITY TABULATION NOTE
- EXISTING GUARDRAIL
- GUARDRAIL
- HIGH-TENSION CABLE BARRIER

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:48 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 36372, REGISTERED PROFESSIONAL ENGINEER

4/29/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 13

Plot 17

PLAN REF NO P17

SHEET 21 OF 29 SHEETS

# T.9N. R.28E.

## I-182

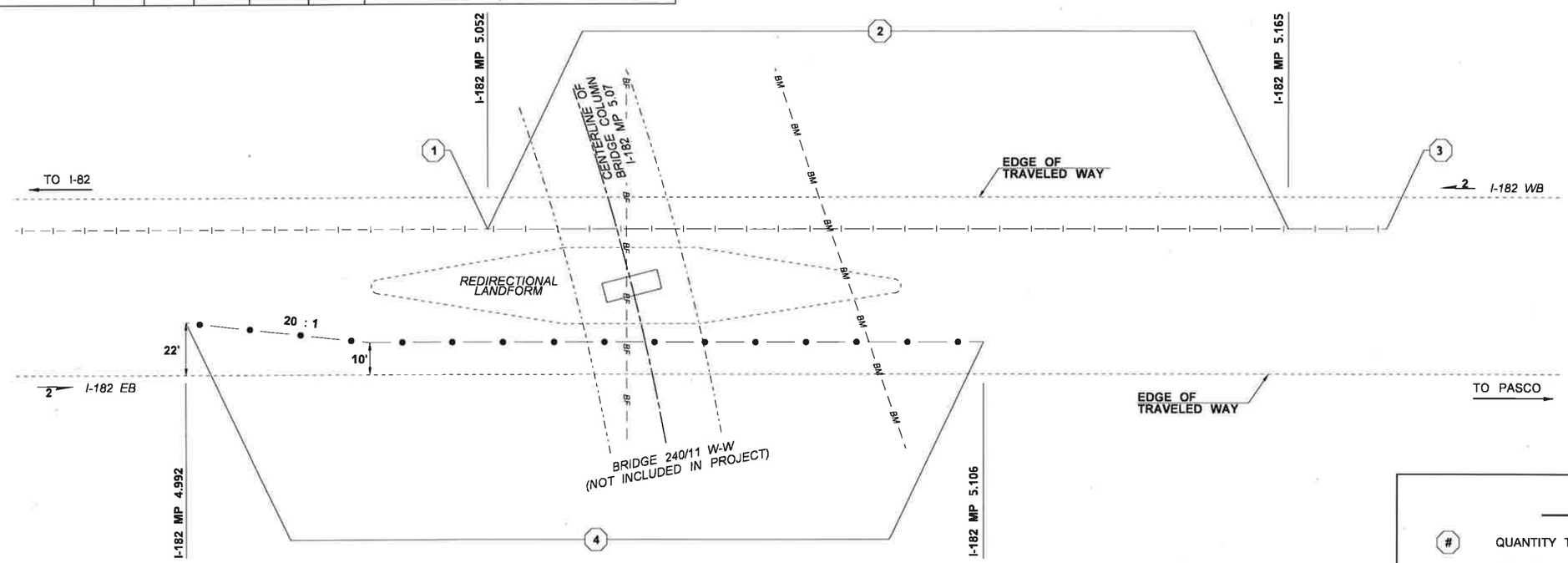
## SR 240 INTERCHANGE I-182 W-W RAMP

## SECTION 14

| CODE | LOCATION | REMOVING GUARDRAIL LF | REMOVING GUARDRAIL TYPE 31 LF | BEAM GUARDRAIL TYPE 31 NON-FLARRED TERMINAL EACH | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|---|---|---|
| 1 | I-182 MP 5.052 | 50 | | | | |
| 2 | I-182 MP 5.502 - I-182 MP 5.165 WB | | 502 | | | 3 |
| 3 | I-182 MP 5.123 | | | 1 | | |
| 4 | I-182 MP 4.992 - I-182 MP 5.106 EB | | | | 600 | 1, 2 |
| | | | | | | |
| SHEET TOTAL | | 50 | 502 | 1 | 600 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER SYSTEM.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.
3. BEAM GUARDRAIL TYPE 1 ADAPTOR REQUIRED.




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.
2. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR MUST VERIFY.

NOT TO SCALE

### LEGEND

- (#) QUANTITY TABULATION NOTE
- EXISTING GUARDRAIL
- GUARDRAIL
- HIGH-TENSION CABLE BARRIER
- BM — BURIED MULTIPLE UTILITY LINE
- BF — BURIED FIBER OPTIC LINE

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:50 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 35972, REGISTERED PROFESSIONAL ENGINEER — 4/29/19 DATE — P.E. STAMP BOX

P.E. STAMP BOX — DATE

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 14

Plot 18 | PLAN REF NO P18 | SHEET 22 OF 29 SHEETS

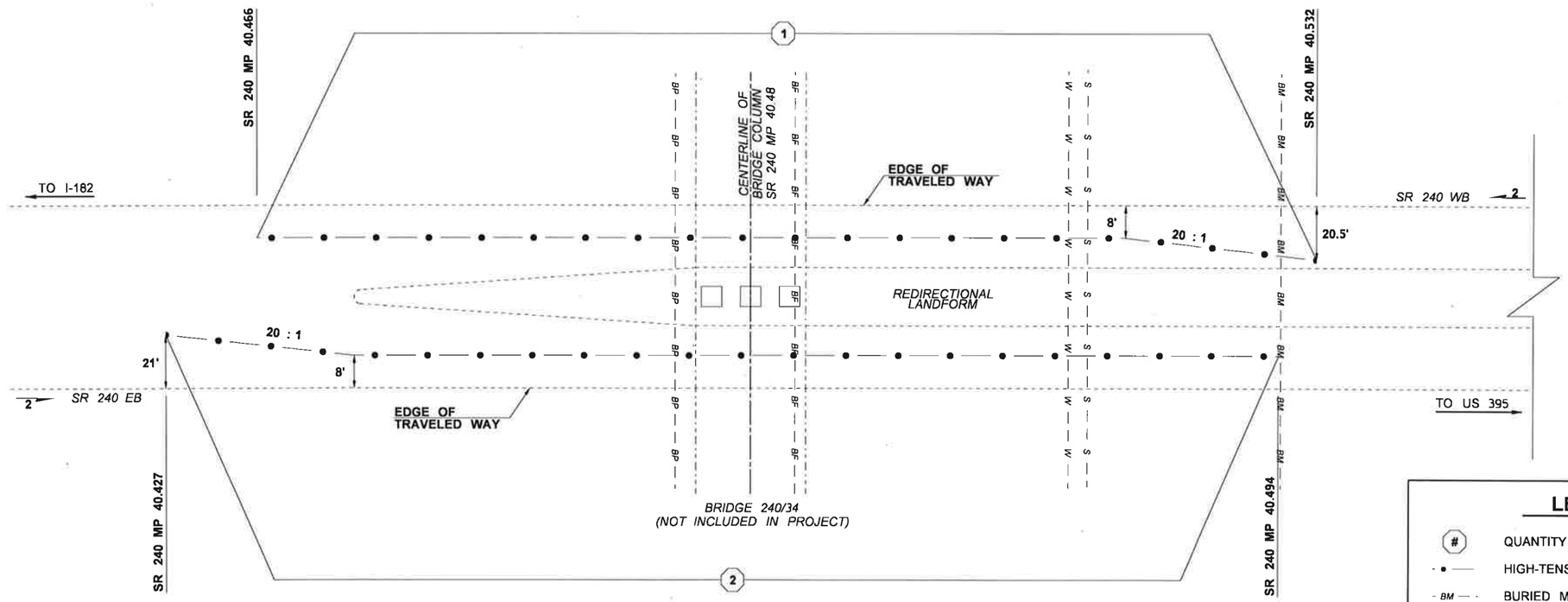
| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | SR 240 MP 40.466 - SR 240 MP 40.532 WB | 350 | 1, 2 |
| 2 | SR 240 MP 40.427 - SR 240 MP 40.494 EB | 353 | 1, 2 |
| | | | |
| SHEET TOTAL | | 703 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER SYSTEM.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.9N. R.29E.

## SR 240
## EDISON ST. INTERCHANGE
## SECTON 15




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.
2. LOCATION OF UTILITIES IS APPROXIMATE. CONTRACTOR MUST VERIFY.

NOT TO SCALE

## LEGEND

| | |
|---|---|
| # | QUANTITY TABULATION NOTE |
| - • — | HIGH-TENSION CABLE BARRIER |
| - BM — - | BURIED MULTIPLE UTILITY LINE |
| - BF — - | BURIED FIBER OPTIC LINE |
| - BP — - | BURIED POWERLINE |
| - W — - | WATER LINE |
| - S — - | SANITARY SEWER LINE |

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:51 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER

4/29/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 15

Plot 19

PLAN REF NO P19

SHEET 23 OF 29 SHEETS

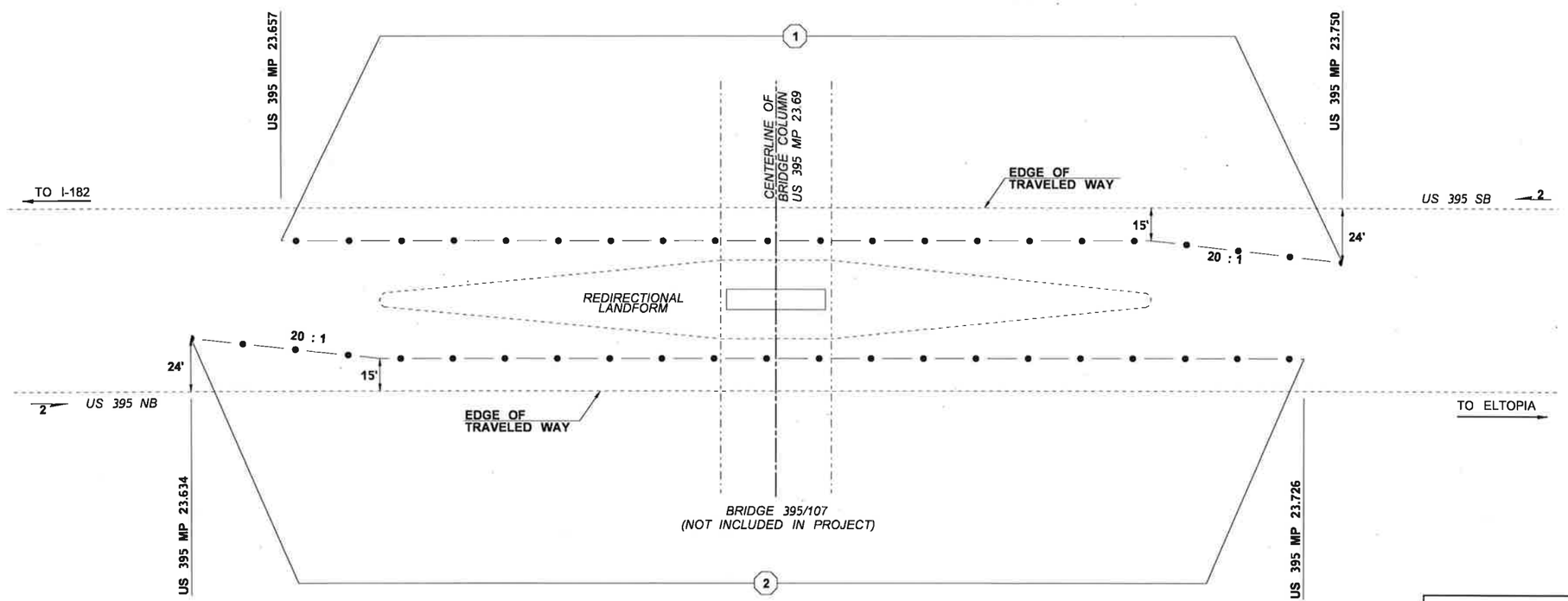
# T.9N. R.30E.

## US 395
## KARTCHNER ST INTERCHANGE
## SECTION 16

| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | US 395 MP 23.657 - US 395 MP 23.750 SB | 490 | 1, 2 |
| 2 | US 395 MP 23.634 - US 395 MP 23.726 NB | 490 | 1, 2 |
| | | | |
| SHEET TOTAL | | 980 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER SYSTEM.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.

NOT TO SCALE

**LEGEND**

(#) QUANTITY TABULATION NOTE

-•— HIGH-TENSION CABLE BARRIER

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:52 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER

4/24/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 16

Plot 20

PLAN REF NO P20

SHEET 24 OF 29 SHEETS

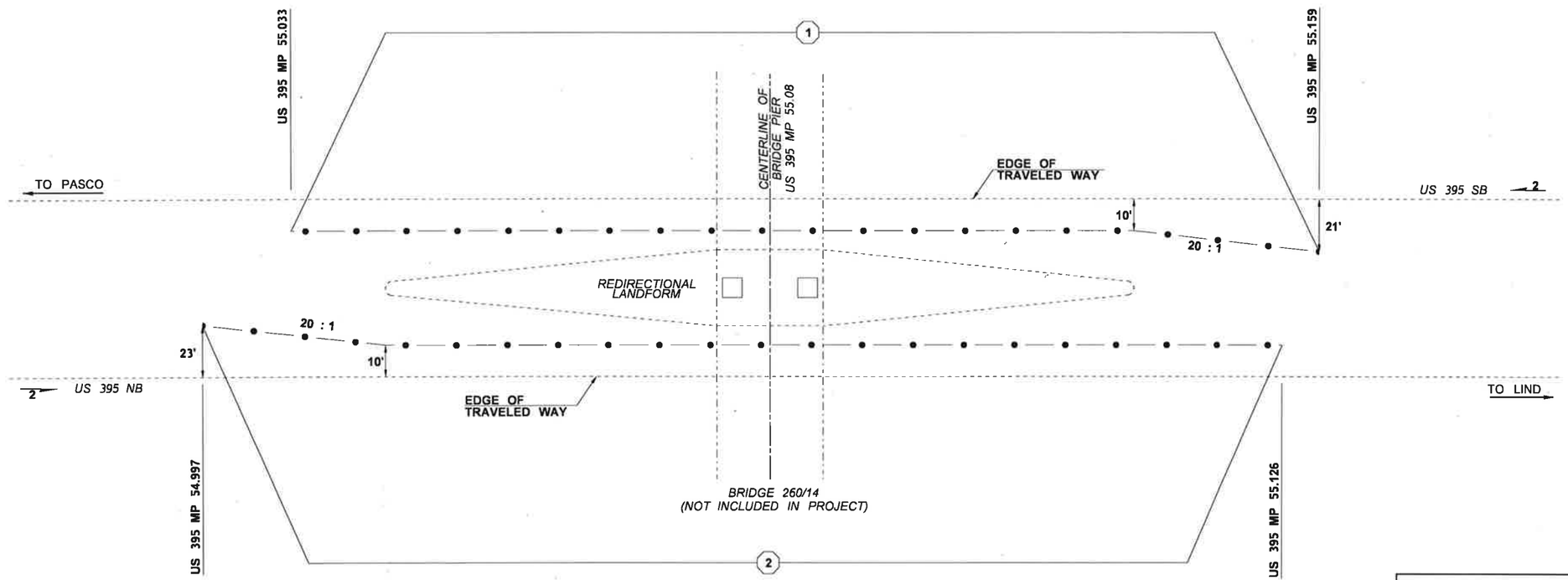
| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | US 395 MP 55.033 - US 395 MP 55.159 SB | 668 | 1, 2 |
| 2 | US 395 MP 54.997 - US 395 MP 55.126 NB | 683 | 1, 2 |
| | | | |
| SHEET TOTAL | | 1,351 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER SYSTEM.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.14N. R.32E.

## US 395
## SR 260 INTERCHANGE
## SECTION 17




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.

NOT TO SCALE

**LEGEND**

(#) QUANTITY TABULATION NOTE

-•— HIGH-TENSION CABLE BARRIER

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn |
| TIME | 9:25:53 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 38272, REGISTERED PROFESSIONAL ENGINEER

4/24/19 DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 17

Plot 21

PLAN REF NO P21

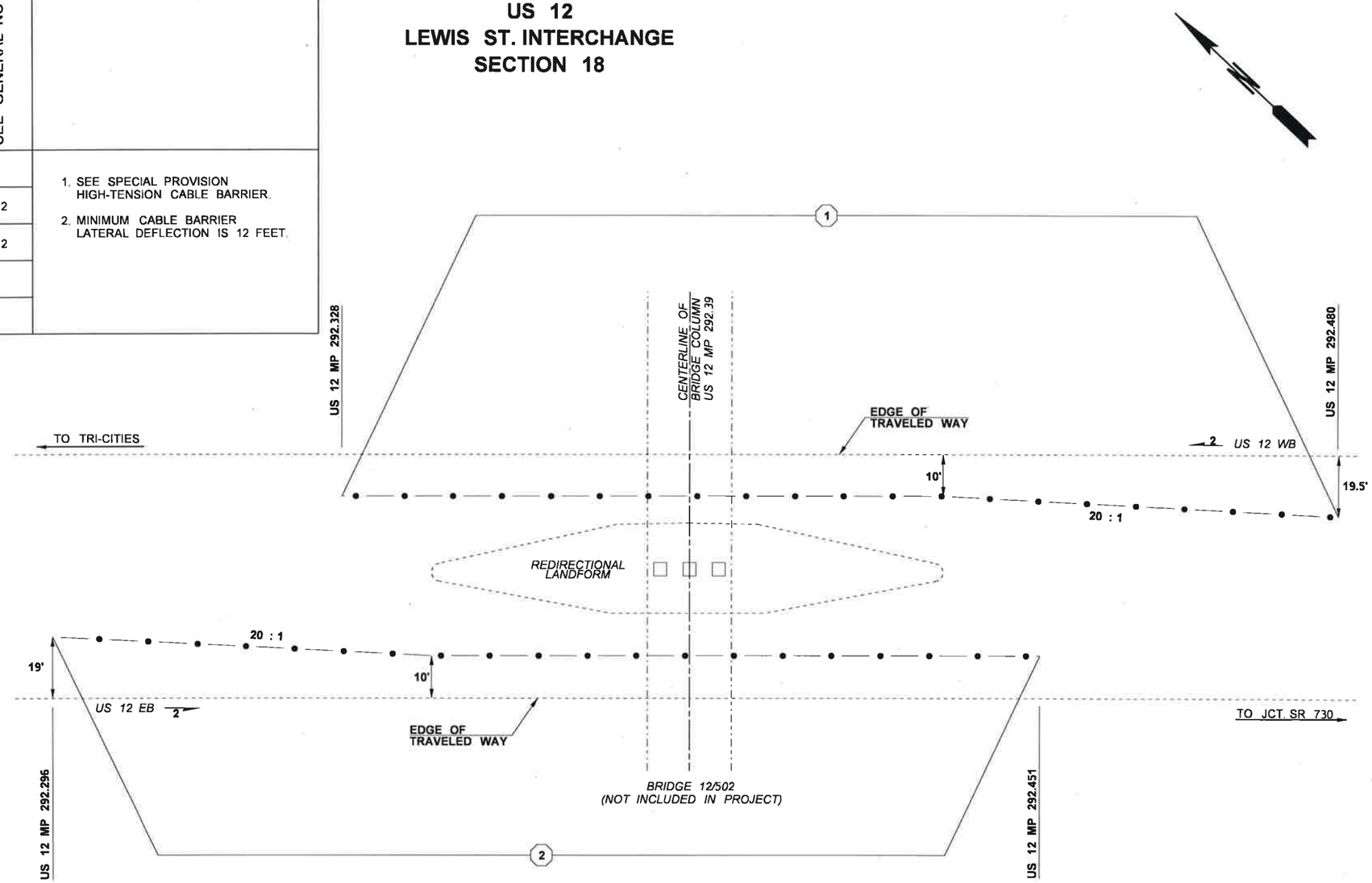
SHEET 25 OF 29 SHEETS

| CODE | LOCATION | HIGH-TENSION CABLE BARRIER SYSTEM (4 CABLE) LF | SEE GENERAL NOTES |
|---|---|---|---|
| 1 | US 12 MP 292.328 TO US 12 MP 292.480 WB | 805 | 1, 2 |
| 2 | US 12 MP 292.296 TO US 12 MP 292.451 EB | 815 | 1, 2 |
| | | | |
| SHEET TOTAL | | 1,620 | |

GENERAL NOTES:

1. SEE SPECIAL PROVISION HIGH-TENSION CABLE BARRIER.
2. MINIMUM CABLE BARRIER LATERAL DEFLECTION IS 12 FEET.

# T.9N. R.30E.
## US 12
## LEWIS ST. INTERCHANGE
## SECTION 18




NOTE:

1. BEGIN 20:1 TAPER FROM THE BEGINNING OF THE REDIRECTIONAL LANDFORM.

NOT TO SCALE

**LEGEND**

(#) QUANTITY TABULATION NOTE

-•— HIGH-TENSION CABLE BARRIER

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_Sheets.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 9:25:54 AM | | | | JOB NUMBER 19Y002 | | |
| DATE | 4/10/2019 | | | | CONTRACT NO. | | LOCATION NO. |
| PLOTTED BY | lheurem | | | | | | |
| DESIGNED BY | F. GODINA | | | | | | |
| ENTERED BY | M. REYES | | | | | | |
| CHECKED BY | C. HENKE | | | | | | |
| PROJ. ENGR. | S. GOLBEK | | | | | | |
| REGIONAL ADM. | T. TREPANIER | REVISION | DATE | BY | | | |

SCOTT ALLEN GOLBEK, STATE OF WASHINGTON, 34272, REGISTERED PROFESSIONAL ENGINEER
4/24/19
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SCR REGION WIDE
REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

PLAN SHEET - SECTION 18

Plot 22
PLAN REF NO P22
SHEET 26 OF 29 SHEETS

| MINIMUM LANE CLOSURE TAPER LENGTH = L (feet) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LANE WIDTH (feet) | Posted Speed (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 |

| MINIMUM SHOULDER TAPER LENGTH = L/3 (feet) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SHOULDER WIDTH (feet) | Posted Speed (mph) | | | | | | | | | |
| | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| 8' | 40 | 40 | 60 | 90 | 120 | 130 | 150 | 160 | 170 | 190 |
| 10' | 40 | 60 | 90 | 90 | 150 | 170 | 190 | 200 | 220 | 240 |

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.

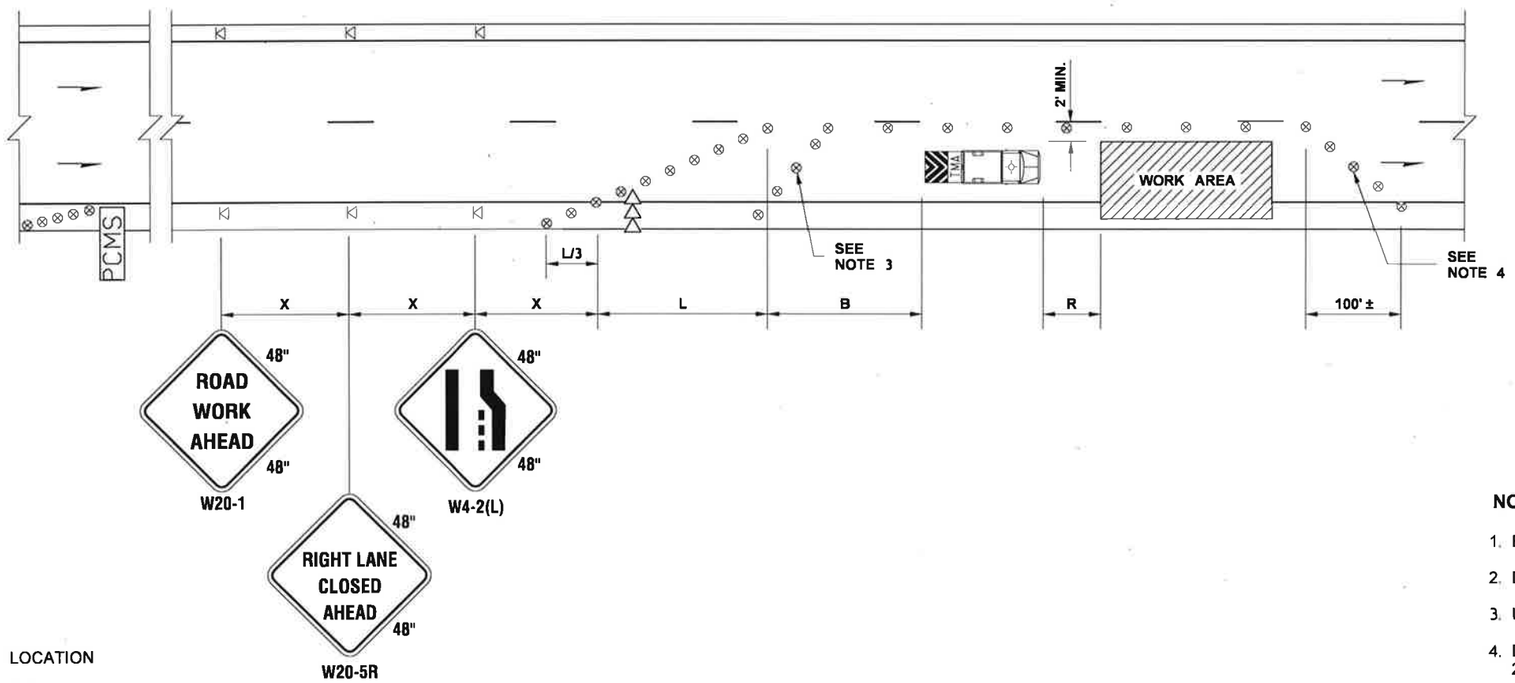
| SIGN SPACING = X (1) | | |
|---|---|---|
| FREEWAYS & EXPRESSWAYS | 55 / 70 MPH | 1500' ± |
| RURAL HIGHWAYS | 60 / 65 MPH | 800' ± |
| RURAL ROADS | 45 / 55 MPH | 500' ± |
| RURAL ROADS & URBAN ARTERIALS | 35 / 40 MPH | 350' ± |
| RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS | 25 / 30 MPH | 200' ± (2) |
| URBAN STREETS | 25 MPH OR LESS | 100' ± (2) |

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

| CHANNELIZATION DEVICE SPACING (feet) | | |
|---|---|---|
| MPH | TAPER | TANGENT |
| 50/70 | 40 | 80 |
| 35/45 | 30 | 60 |
| 25/30 | 20 | 40 |

| 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' |




| PCMS | |
|---|---|
| 1 | 2 |
| RIGHT LANE CLOSURE | 1 MILE AHEAD |
| 2.0 SEC | 2.0 SEC |

FIELD LOCATE 1 MILE ± IN ADVANCE OF LANE CLOSURE SIGNING.

## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

## NOTES

1. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
2. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANE.
3. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000'.
4. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'.
5. ALL SIGNS ARE BLACK ON ORANGE.
6. ALL SIGNS SHALL BE CLASS B.

# SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

NOT TO SCALE

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_PS_TCP.dgn |
| TIME | 9:03:50 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. | STATE: WASH | FED.AID PROJ.NO.
JOB NUMBER: 19Y002
CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX — DATE
P.E. STAMP BOX — DATE

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

TRAFFIC CONTROL PLAN

Plot 1
PLAN REF NO TC1
SHEET 27 OF 29 SHEETS

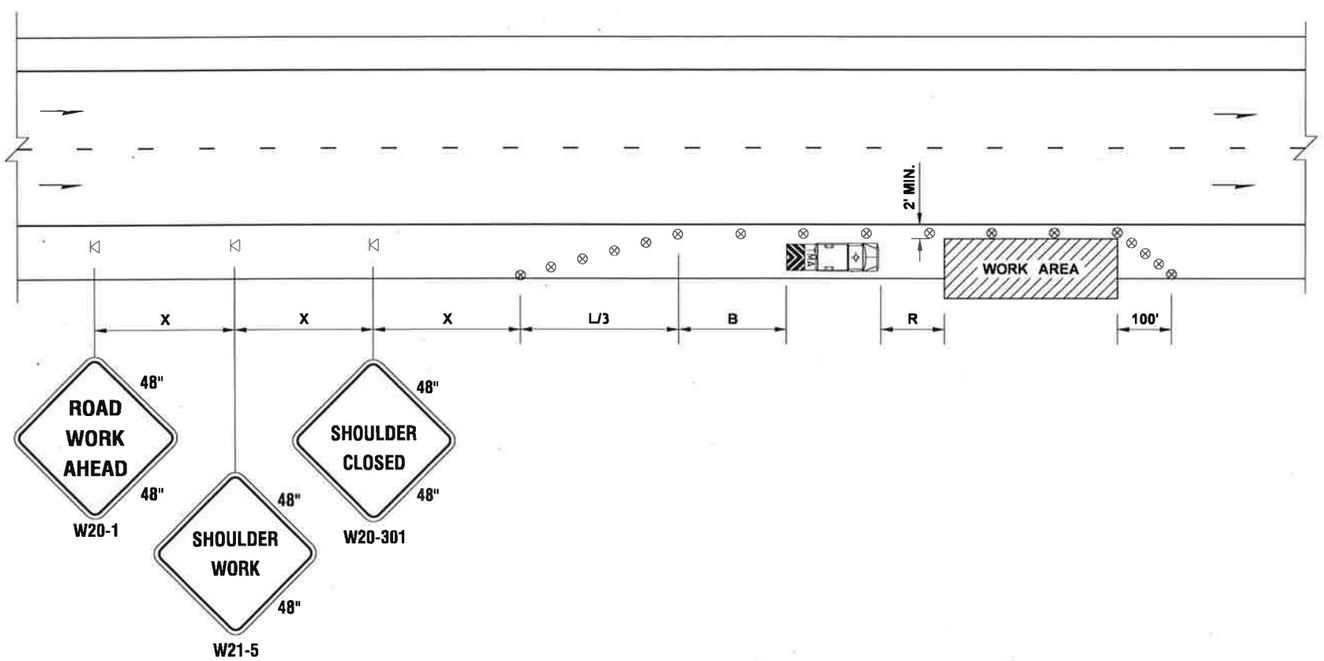
| MINIMUM SHOULDER TAPER LENGTH = L/3 (feet) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SHOULDER WIDTH (feet) | Posted Speed (mph) | | | | | | | | | |
| | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| 8' | - | - | - | - | 120 | 130 | 150 | 160 | 170 | 190 |
| 10' | - | - | - | - | 150 | 170 | 190 | 200 | 220 | 240 |
| USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'. | | | | | | | | | | |

| SIGN SPACING = X (1) | | |
|---|---|---|
| FREEWAYS & EXPRESSWAYS | 55 / 70 MPH | 1500'± |
| RURAL HIGHWAYS | 60 / 65 MPH | 800'± |
| RURAL ROADS | 45 / 55 MPH | 500'± |
| (1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS. | | |

| CHANNELIZATION DEVICE SPACING (feet) | | |
|---|---|---|
| MPH | TAPER | TANGENT |
| 50/70 | 40 | 80 |
| 35/45 | 30 | 60 |

| 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' |




**LEGEND**

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- TRANSPORTABLE ATTENUATOR

# SHOULDER CLOSURE - HIGH SPEED

NOT TO SCALE

**NOTES**

1. NO ENCROACHMENT IN TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
2. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' O.C.
3. ALL SIGNS ARE BLACK ON ORANGE.
4. ALL SIGNS SHALL BE CLASS B.

| | | | | | |
|---|---|---|---|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -RedirectionalLandforms and Median Cable Barrier\DGNs\MT0638_PS_TCP.dgn | | | | |
| TIME | 9:03:51 AM | | | | |
| DATE | 4/10/2019 | | | | |
| PLOTTED BY | lheurem | | | | |
| DESIGNED BY | F. GODINA | | | | |
| ENTERED BY | M. REYES | | | | |
| CHECKED BY | C. HENKE | | | | |
| PROJ. ENGR. | S. GOLBEK | | | | |
| REGIONAL ADM. | T. TREPANIER | REVISION | DATE | BY | |

| REGION NO. | STATE | FED.AID PROJ.NO. |
|---|---|---|
| 10 | WASH | |
| JOB NUMBER 19Y002 | | |
| CONTRACT NO. | | LOCATION NO. |

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

TRAFFIC CONTROL PLAN

Plot 2

PLAN REF NO TC2

SHEET 28 OF 29 SHEETS

## 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' |

## SIGN SPACING = X (1)

| | | |
|---|---|---|
| FREEWAYS & EXPRESSWAYS | 55 / 70 MPH | 1500' ± |
| RURAL HIGHWAYS | 60 / 65 MPH | 800' ± |
| RURAL ROADS | 45 / 55 MPH | 500' ± |

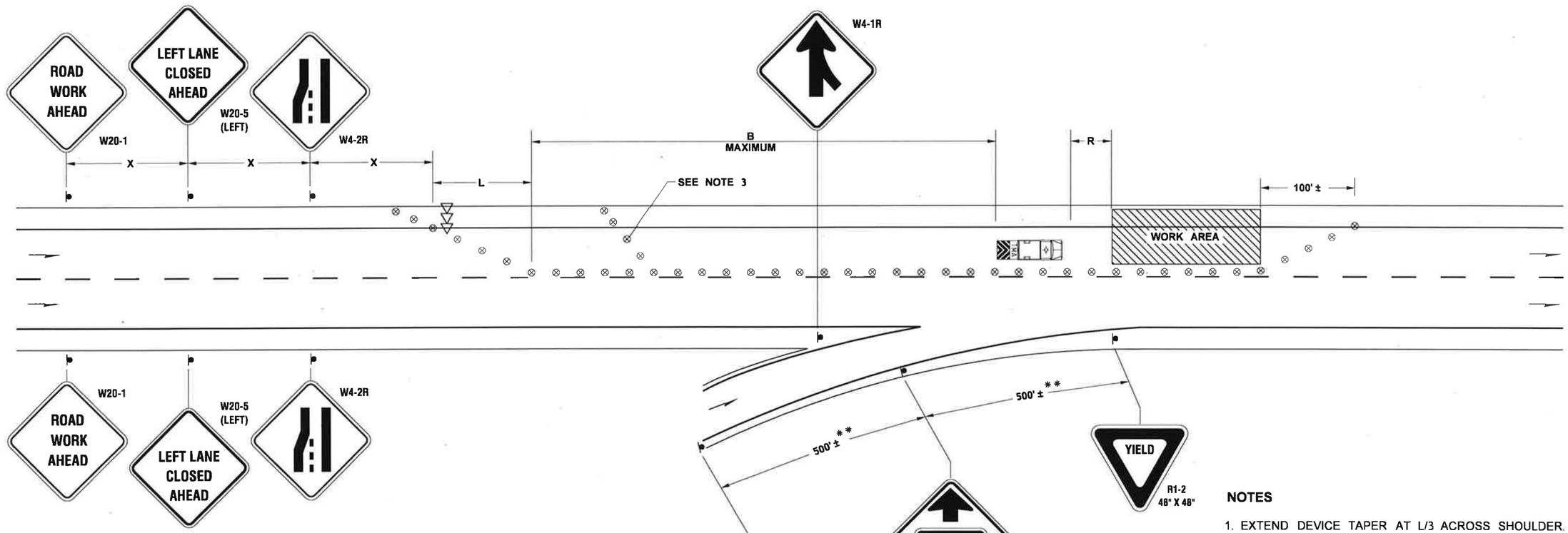
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

## CHANNELIZATION DEVICE SPACING (feet)

| MPH | TAPER | TANGENT |
|---|---|---|
| 50/70 | 40 | 80 |
| 35/45 | 30 | 60 |

## MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)

| LANE WIDTH (feet) | Posted Speed (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 |




** MAY BE ADJUSTED TO FIT THE LENGTH OF THE RAMP.

## LEGEND

- SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN - TYPE C
- TRANSPORTABLE ATTENUATOR

## TEMPORARY ON-RAMP

LEFT LANE CLOSED
MULTI-LANE FREEWAY

NOT TO SCALE

## NOTES

1. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
2. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANE.
3. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000'.
4. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'.
5. ALL SIGNS ARE BLACK ON ORANGE.
6. ALL SIGNS SHALL BE CLASS B.

| | |
|---|---|
| FILE NAME | K:\Review\19Y002 XL5972 SCR Region Wide -Redirectional Landforms and Median Cable Barrier\DGNs\MT0638_PS_TCP.dgn |
| TIME | 9:03:52 AM |
| DATE | 4/10/2019 |
| PLOTTED BY | lheurem |
| DESIGNED BY | F. GODINA |
| ENTERED BY | M. REYES |
| CHECKED BY | C. HENKE |
| PROJ. ENGR. | S. GOLBEK |
| REGIONAL ADM. | T. TREPANIER |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 19Y002

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State Department of Transportation

SCR REGION WIDE REDIRECTIONAL LANDFORMS AND MEDIAN CABLE BARRIER

TRAFFIC CONTROL PLAN

Plot 5

PLAN REF NO TC3

SHEET 29 OF 29 SHEETS