PRE-CONSTRUCTION NOTIFICATION

Nationwide Permit 14: Linear Transportation Projects

Submitted to US Army Corps of Engineers, Wyoming Regulatory Office

March 17, 2016

Project Title: Pathway 22: East Section - Segment 3 & Middle Section - Phase 2

Location: **WY** State Highway 22 Right-of-Way
NE1/4 Sec 31, NW1/4 Sec. 32, & SW1/4 Sec. 29
Township 41N, Range 116W, 6th Prime Meridian
Teton County, WY

Permittee/Mailing Address:
Teton County Engineering Department
c/o Sean O'Malley, County Engineer
PO Box 3594
Jackson, WY 83001
307-733-3317
somalley@tetonwyo.org

Agent: Alder Environmental, LLC
Brian Remlinger, *Principal/ Professional Wetland Scientist*
P.O. Box 6519
Jackson, WY 83002
307-733-5031
brian@alderenvironmental.com

LOCATION/ VICINITY

Location: WY State Highway 22 Right-of-Way
NE1/4 Sec 31, NW1/4 Sec. 32, & SW1/4 Sec. 29
Township 41N, Range 116W, 6th Prime Meridian
Teton County, WY

Directions: From the Town of Jackson, WY at the intersection of West Broadway and WY State Highway 22 head west on Highway 22 for ¼ mile. The Project Area starts at the intersection with Spring Gulch Road and continues west for 0.9 miles.

Map: Figure 1 - Location

EXISTING CONDITIONS

REFERENCES

Appendix B: Aquatic Resources Inventory (dated March 14, 2016)

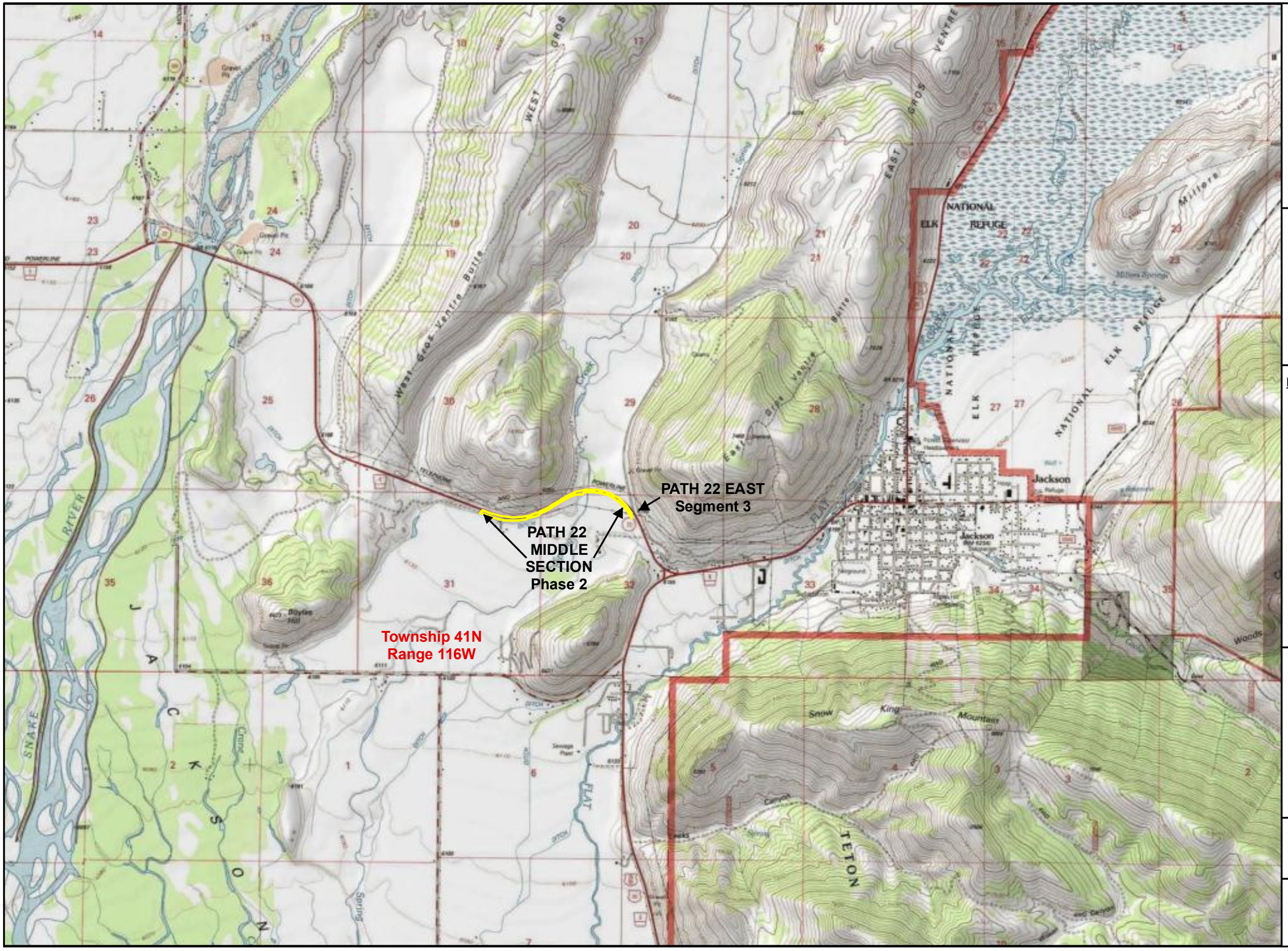
AQUATIC RESOURCES

Specific details on existing aquatic resources and photos of the Project Area can be found in the *Aquatic Resources Inventory Report* provided in Appendix B.

Surface Waters
Spring Creek, a natural channel, and three constructed irrigation supply ditches (Spring Creek Ditch, Badger Ditch, and Stephen Adams Ditch) flow through the Project Area. In addition, a return ditch flows west back to Spring Creek from the Stephen Adams ditch south of the Project Area.

Wetlands
Approximately 0.56 acres of palustrine scrub-shrub wetlands have been delineated within the 9-acre Project Area. The wetlands are primarily adjacent to irrigation supply ditches and are dominated by *Salix exigua* (narrowleafed willow).

The areas adjacent to Spring Creek and the low lying *Natural Wetland Hydrology Area* to the east of Spring Creek (circled in white in Figure 4 of the ARI Report) have perennial surface and groundwater (estimated to be <12" deep). Wetlands in this area likely have natural hydrology in addition to irrigation induced hydrology. Wetlands adjacent to and within the Stephen Adams Ditch, Badger Ditch and Spring Creek Ditch are influenced by irrigation practices and not natural hydrologic conditions. When these ditches are not receiving diverted water from Spring Creek, they do not have wetland hydrology.



Nationwide Permit 14
Pre-Construction
Notificaiton

JH Community
Pathways

Pathway 22 East & Middle
State Highway 22
Teton County, WY

FIGURE 1:

Location

March 17, 2016

Description:

Landowners:
- State of Wyoming
- Pittsburgh National Bank, Trustee PNC Bank Co.
- Four Lazy F Ranch

WY Highway 22
Right-of-Way

NE1/4 Sec 31, NW1/4 Sec. 32, & SW1/4 Sec. 29
Township 41N, Range 116W

USGS Topographic 1:24,000 Map

1 inch = 0.5 miles

0 0.25 0.5 Miles

NORTH

ALDER ENVIRONMENTAL, LLC
Water • Wetlands • Ecological Consulting
P.O. Box 6519, Jackson, Wyoming 83002
(307) 733-5031 www.alderenvironmental.com

PROJECT DESCRIPTION

PROPOSED ACTIVITIES & PURPOSE

JH Community Pathways is planning to construct in the spring of 2016 approximately 0.9 miles of 10' wide paved multi-use pathway within the Wyoming State Highway 22 Right-of-Way. The proposed work is within the *Path 22 East - Segment 3* near Spring Gulch Road, which is part of the larger planning effort known as *WY22/US89 Pathway Project*, as well as in the *Path 22 Middle Section Phase 2* west of Spring Gulch Road (Figure 1). Due to the need for a safe and structurally operational side-slope on the south side of the pathway, delineated wetlands are proposed to be filled. The *East Segment 3* pathway was partially constructed in 2015, but fill in wetlands was avoided. It was later determined the original topographic survey for the project area was imprecise and fill in wetlands would be required to achieve the design side slope of no steeper than 2:1.

Construction design drawings for both segments are provided in Appendix A. The *Path 22 Middle Section Phase 2* is shown in Sheets TS0 – PP11 (Teton County Engineering) and *East Section Segment 3* is show in Sheets C3.01, C3.03, and C3.04 (Jorgensen Associates).

The primary purpose of this project is to improve infrastructure for non-motorized travel (bicycle and pedestrian) between the Town of Jackson and outlying areas by constructing a paved pathway segment along WY Highway 22. This pathway will serve the residents and visitors of Jackson Hole.

PROPOSED FILL IN WETLANDS

Approximately 3,133 square feet (0.07 acres) of scrub-shrub wetland will be filled with 63 cubic yards of fine (topsoil) to gravels and cobbles (pit run) gradation. The following Table 1 provides the location and quantities of proposed wetland fill.

TABLE 1. SUMMARY OF PROPOSED ACTIVITIES IN WETLANDS

Location	Fill in Wetlands (square feet)	Fill in Wetlands (cubic yards)
MIDDLE SECTION Phase 2 (Sheets TS0 – PP11)		
STA 14+00	1,137	19
STA 36+00	25	1
STA 39+00	36	2
STA 40+00	156	4
STA 41+00	785	15
EAST SECTION Segment 3 (Sheets C3.01, C3.03, C3.04)		
300+00	567	13
302+00	407	9
Total	**3,113 sf (0.07 acres)**	**63 CY**

PROPOSED MEASURES TO MINIMIZE ADVERSE EFFECTS

Soil on constructed side slopes with be stabilized in the short term through either hydro-mulch or erosion control fabric applications. Long term soil stabilization will be achieved through establishment of native grass species specified in L2.0 in Appendix A. A silt fence will be placed at the toe of slope to prevent soil transported by runoff from the constructed side slopes to adjacent wetlands and surface waters as shown in Typical Detail 2 in Sheet C14.01 of Appendix A.

No surface water channel modifications or temporary structures, fill or work will take place in delineated wetlands or surface waters within the Project Area.

HISTORIC PROPERTY REVIEW

The online Wyoming Cultural Resource Information System through the State Historic Preservation Office was consulted to determine if any historic sites or National Register of Historic Places exist within the property. The online search did not indicate any historic sites exist and no sites were observed during the field inventory and survey. The majority of the property is located within the highway ROW fill, so historic sites likely don't exist or were previously disturbed.

THREATENED & ENDANGERED SPECIES

The US Fish and Wildlife Service online database Information for Planning and Conservation, was consulted for determining potential impacts to endangered species in the Project Area. The Yellow-Billed Cuckoo, a Threatened species, is listed as potentially existing on or near the property. However, the Cuckoo's primary habitat is cottonwood riparian, which does not exist within the project area. The Gray Wolf (Experimental Population, Non-Essential) and Grizzly Bear (Threatened) may pass through the Project Area, however the highway ROW provides non-essential habitat for these species.

APPENDIX A – Design Drawings

Sheets TS0 – PP11: Path 22 Middle Section Phase 2 (Teton County Engineering)
Sheets C3.01, C3.03, and C3.04: Path 22 East Section Segment 3 (Jorgensen Associates)
Sheet L2.0 – Reclamation/ Landscape specifications (Jorgensen Associates)
Sheet C14.01 – Silt fence typical (Detail 2) (Jorgensen Associates)

PATH 22
MIDDLE SECTION PHASE 2
CATTLE TUNNEL TO SPRING GULCH

0 500 1000 Feet

N

LEGEND

	RIGHT OF WAY
	EDGE OF EXISTING PAVEMENT
—X-X—X-X—X-X—X-X—	EXISTING FENCE
	PROPOSED ASPHALT PATHWAY
	LIMITS OF DISTURBANCE
	PROPOSED GUARDRAIL
— SF — SF — SF —	SILT FENCE
	STRAW WATTLE
— FO — FO — FO —	EXISTING FIBER OPTIC
— T — T — T — T —	EXISTING PHONE
— P — P — P — P —	EXISTING POWER
— WET — WET —	EXISTING WETLAND BOUNDARY

SHEET INDEX

TS0	TITLE SHEET
TS1 - TS3	TYPICAL SECTIONS
PP1 - PP11	PLAN & PROFILE SHEETS
D1	CATTLE TUNNEL AREA DETAIL
XX-XX	BLOCK RETAINING WALL LAYOUT DETAILS
SS1 - SSX	SIGNING & STRIPING SHEETS
DX - DX	DETAIL SHEETS
X - X	WYDOT STANDARD DETAILS FOR TRAFFIC CONTROL & GUARDRAIL

PRELIMINARY PLANS
FOR REVIEW & APPROVAL
NOT FOR CONSTRUCTION

TETON COUNTY WYOMING
ENGINEERING & PATHWAYS
OLD TETON COUNTY LIBRARY
320 S. KING STREET
PO BOX 3594
JACKSON, WY 83001
P: 307.733.3317

PATH 22

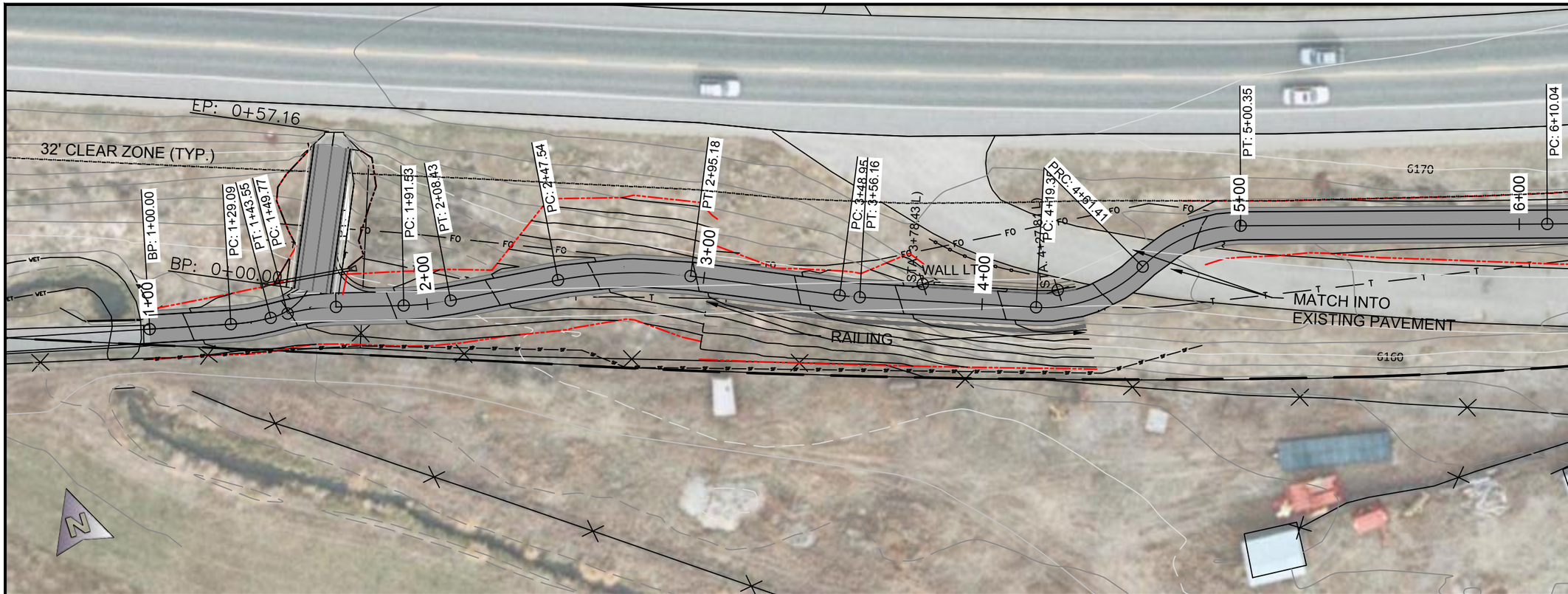
PATH 22 MIDDLE SECTION PHASE 2

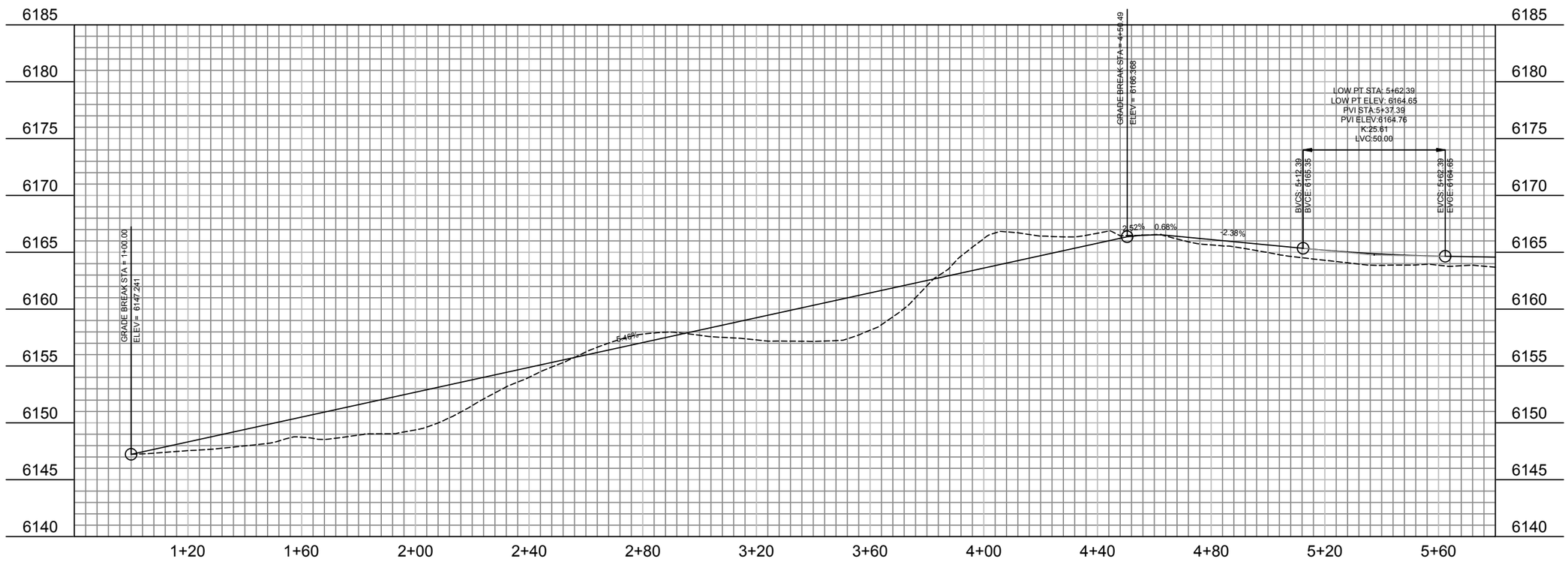
CATTLE TUNNEL TO SPRING GULCH
HIGHWAY 22, TETON COUNTY, WY

Issue Date
. Mar 04, 2016 - 3:53pm

Drawing Title:
TITLE SHEET

TS 0





TETON COUNTY WYOMING

PATH 22

REVISIONS:

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:
PLAN&PROFILE

DRAWING NUMBER:
PP1

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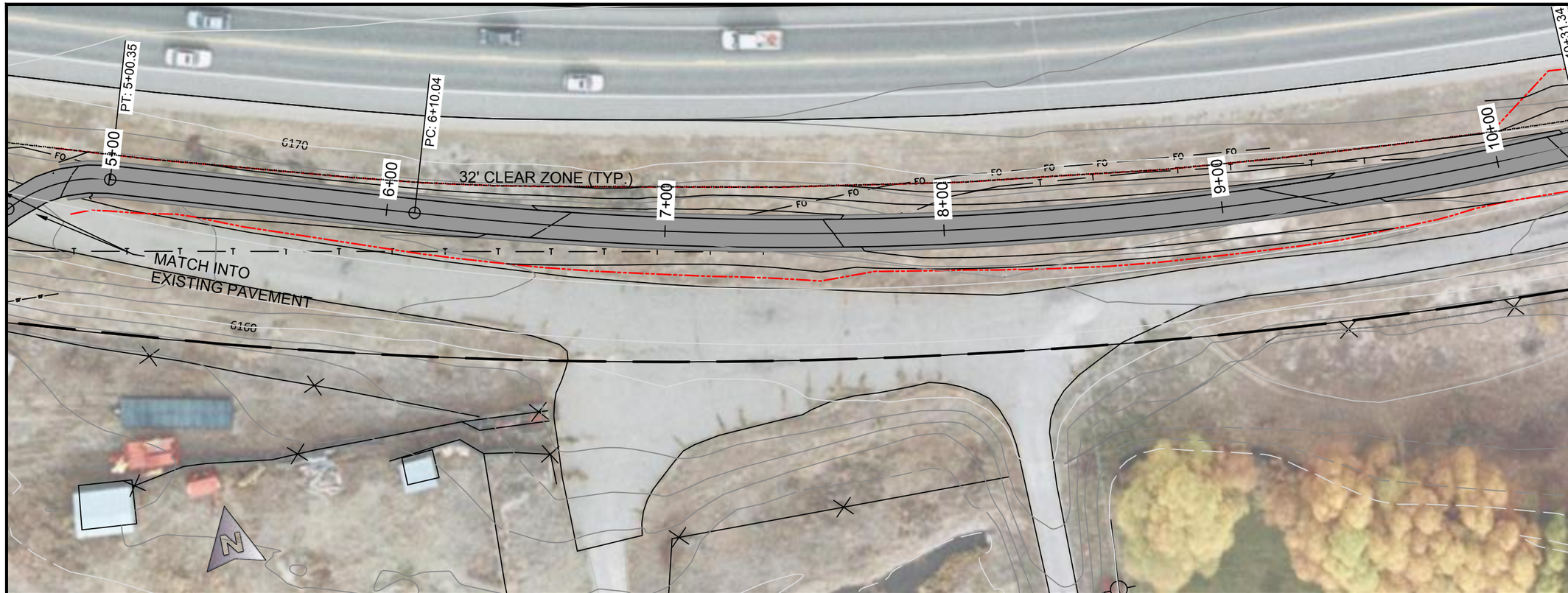

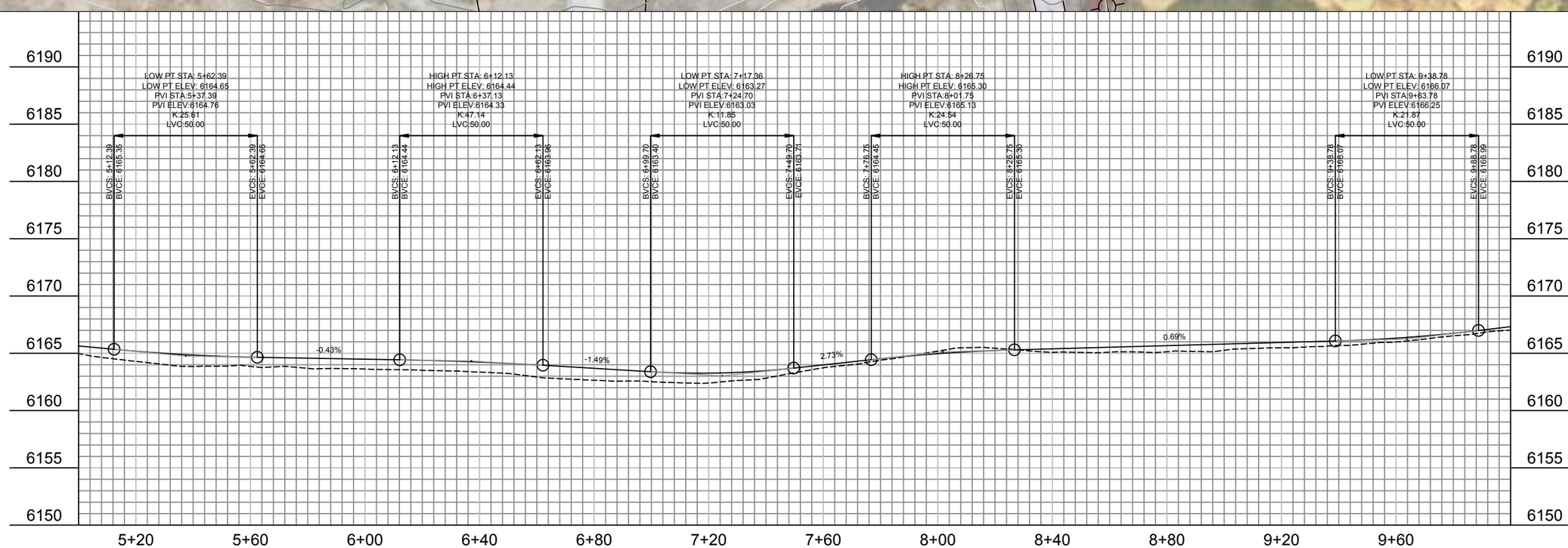

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TETON COUNTY WYOMING

PATH 22

REVISIONS:

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

DRAWING TITLE:
PLAN&PROFILE

DRAWING NUMBER:
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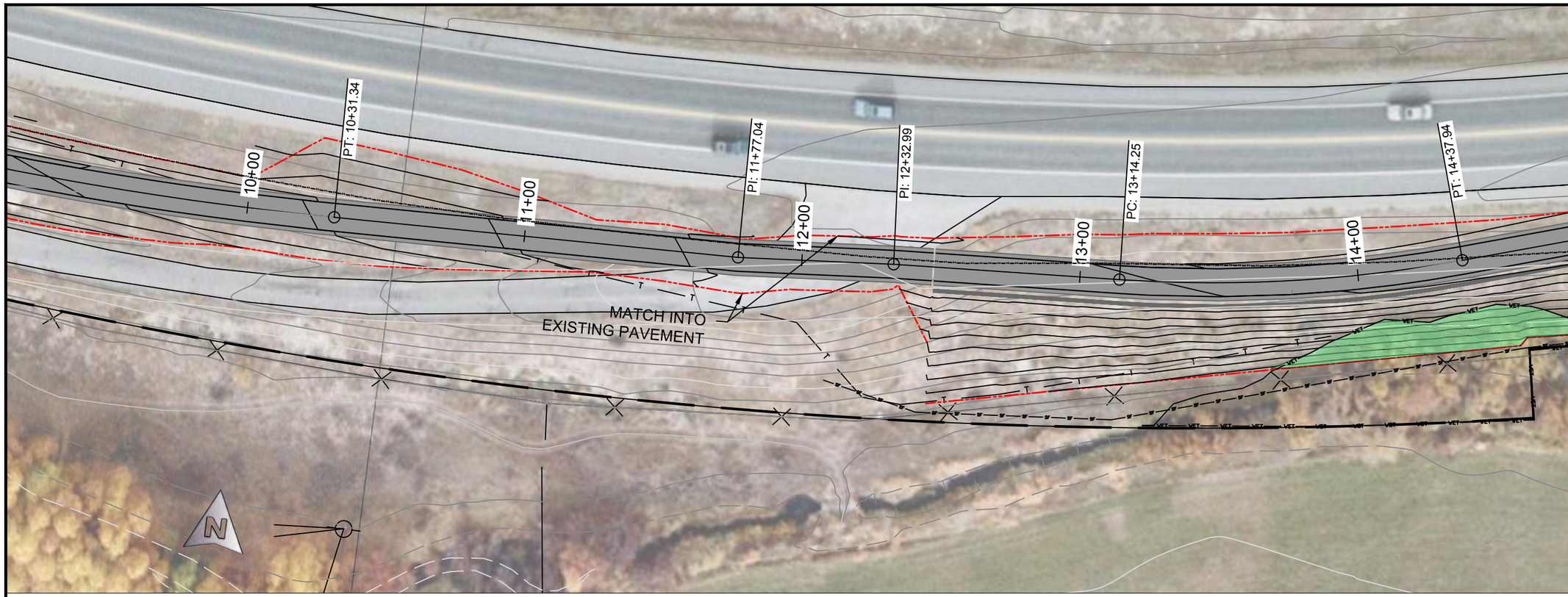

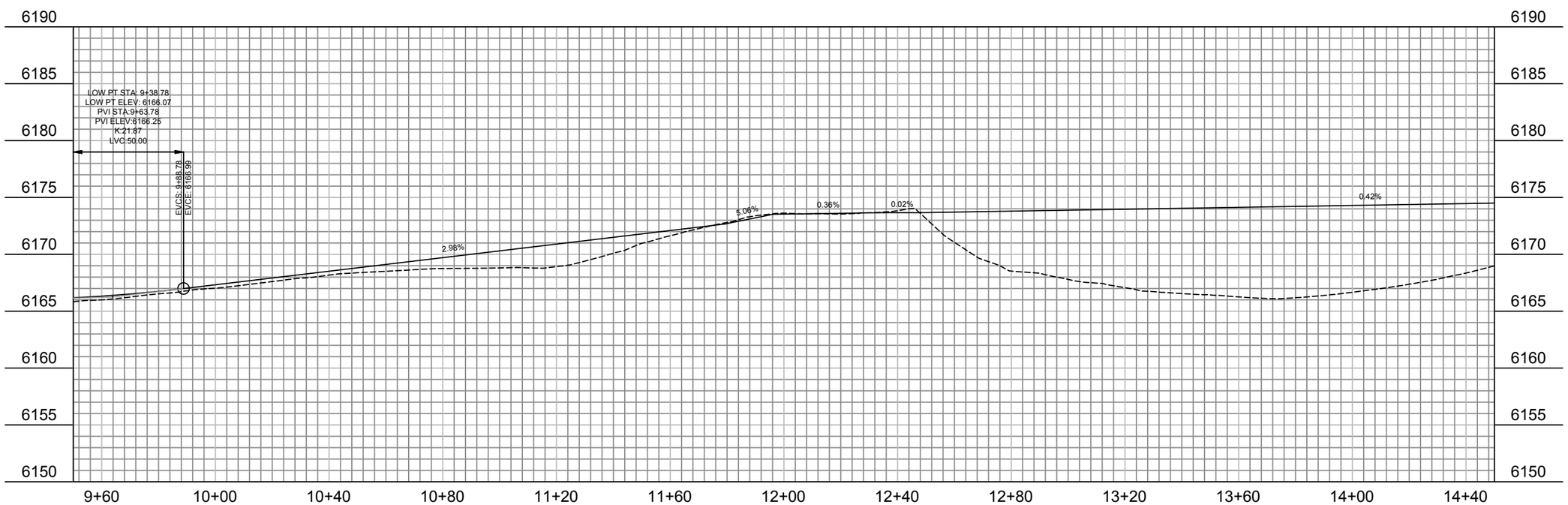

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TETON COUNTY WYOMING

PATH 22

REVISIONS:

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

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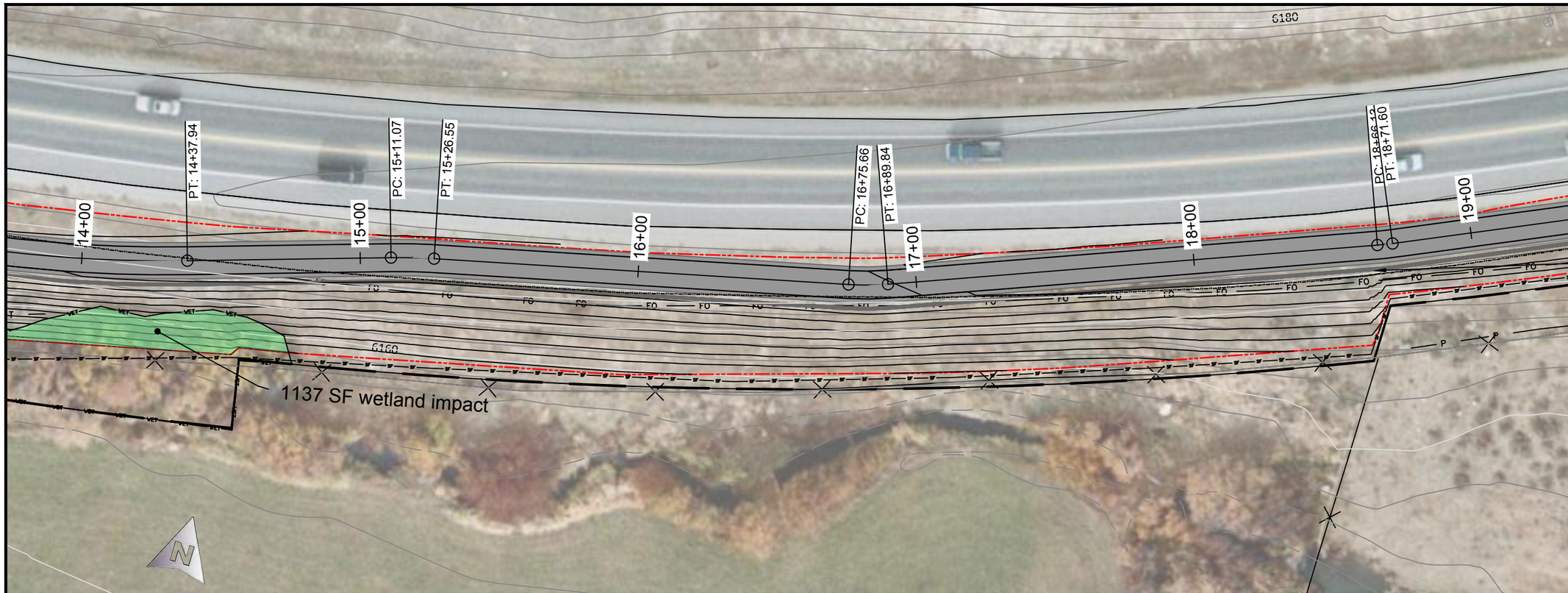

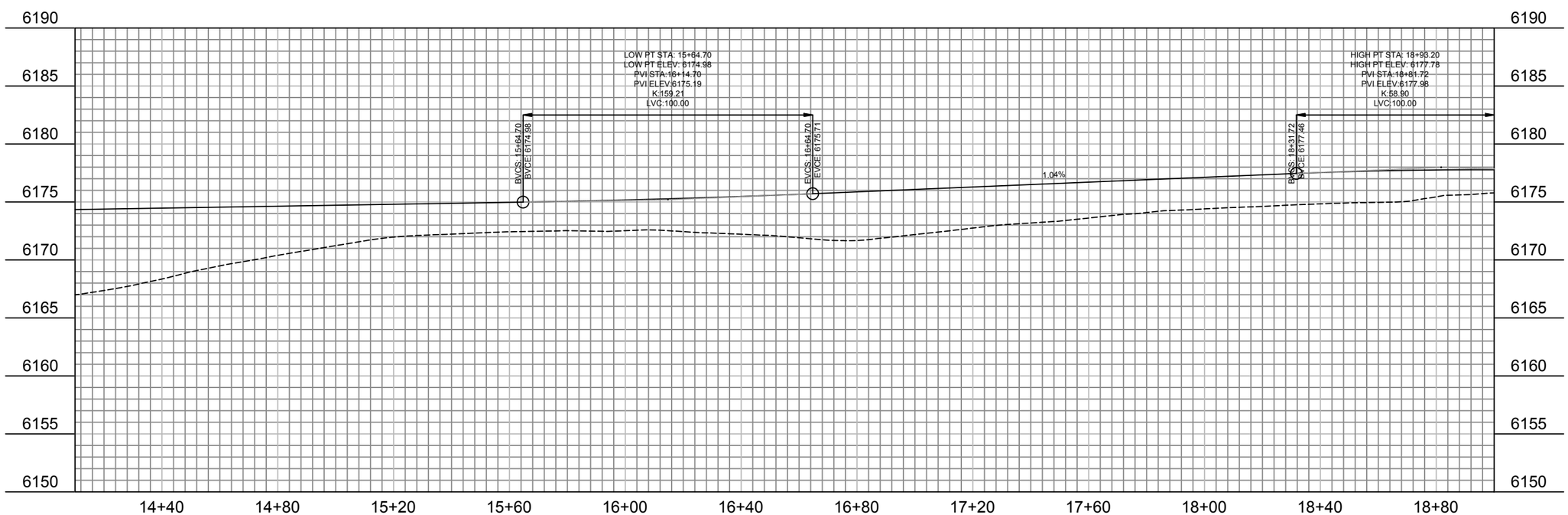

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CATTLE TUNNEL
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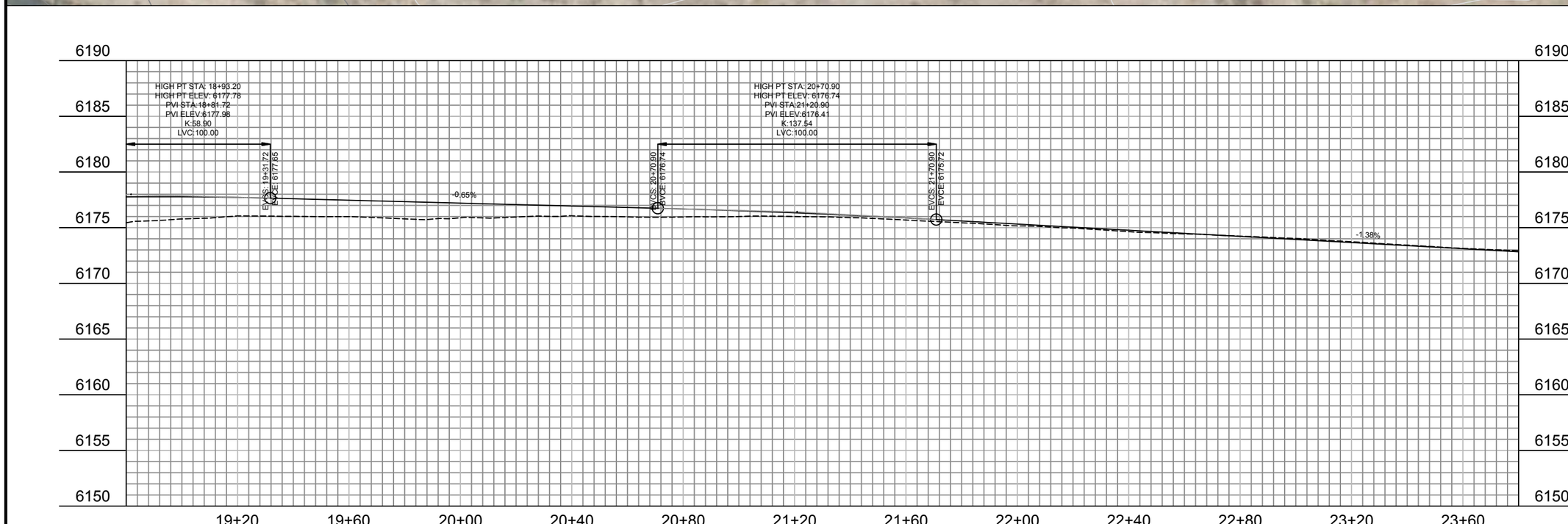

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MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

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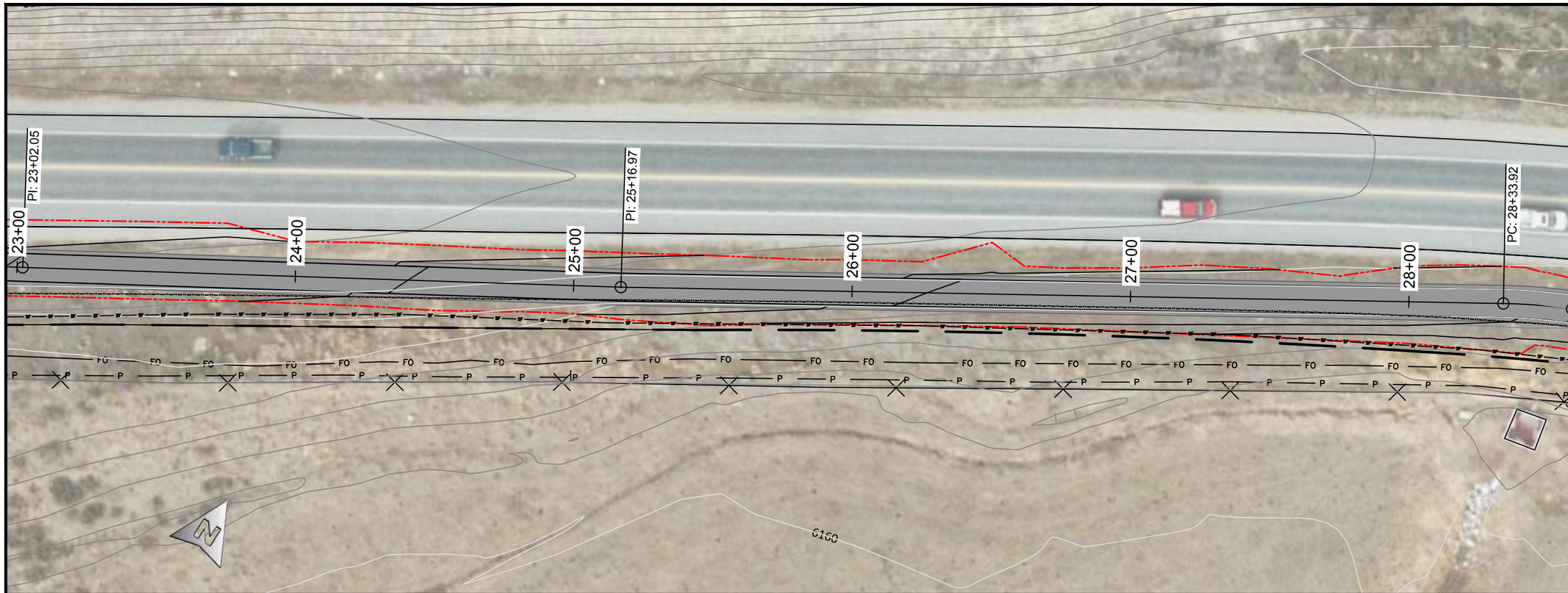

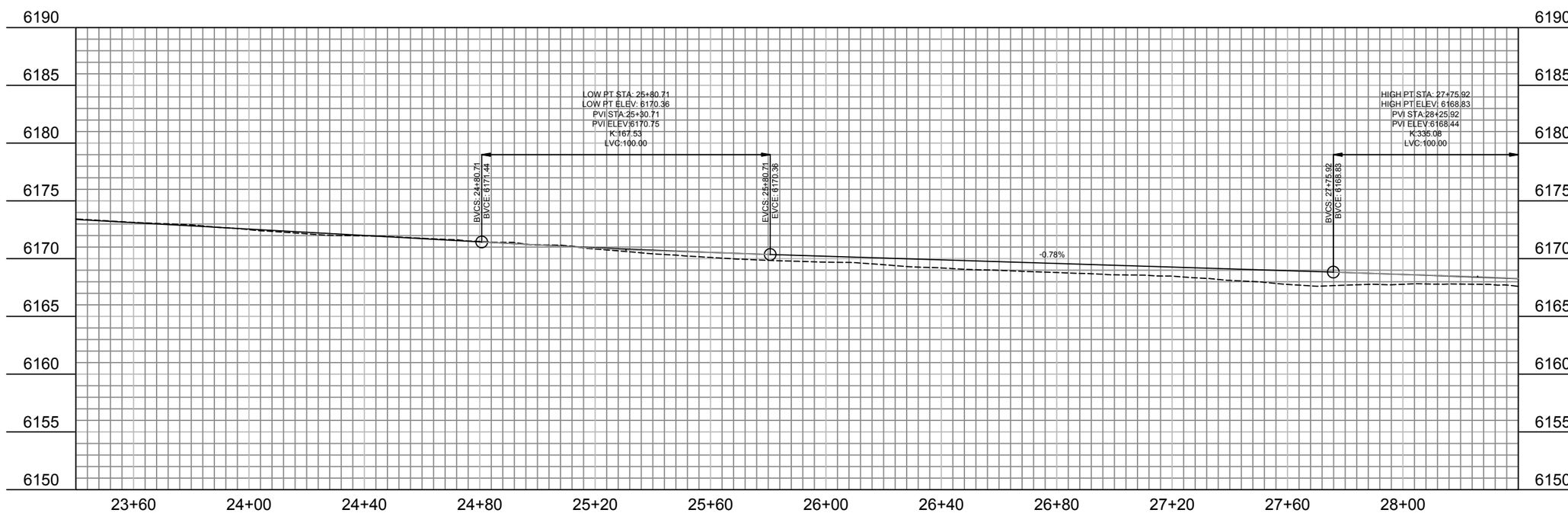

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CATTLE TUNNEL
TO SPRING GULCH

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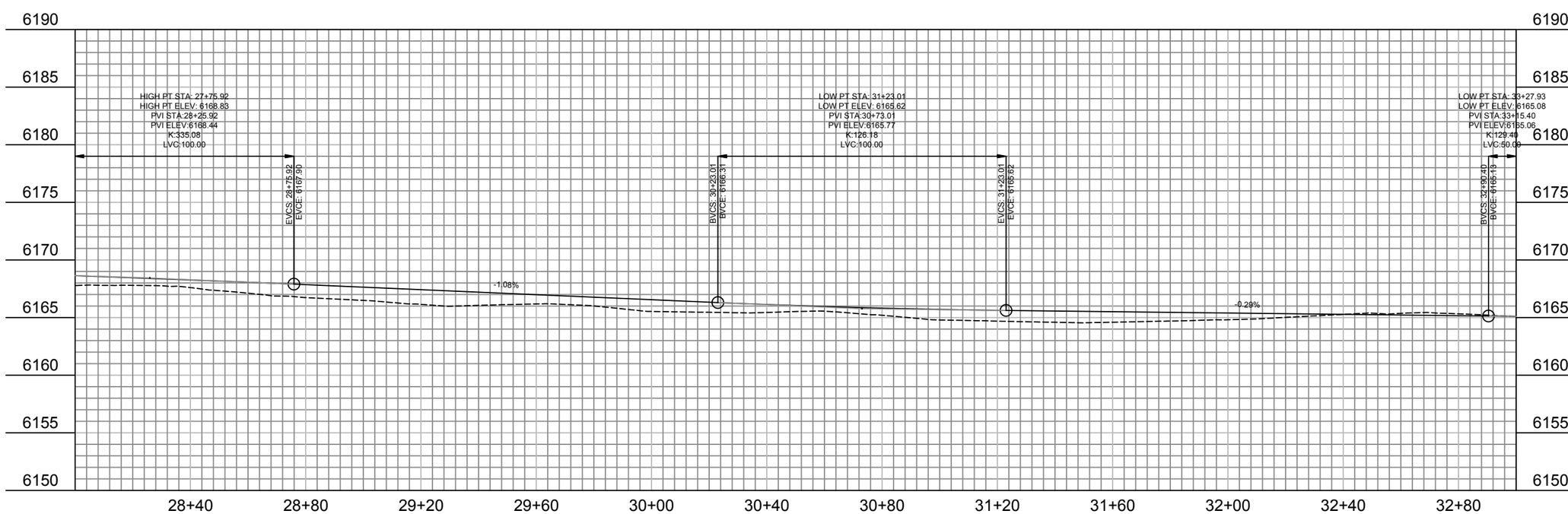

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TETON COUNTY WYOMING

PATH 22

REVISIONS:

MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

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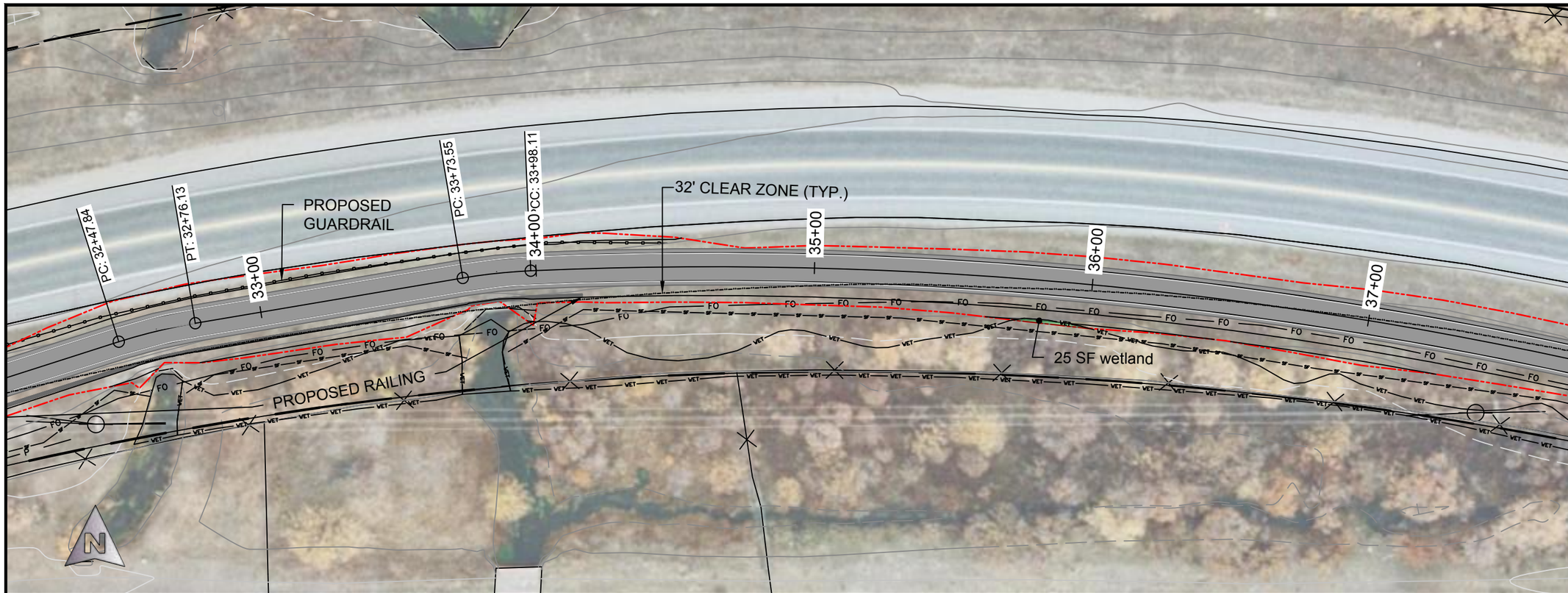

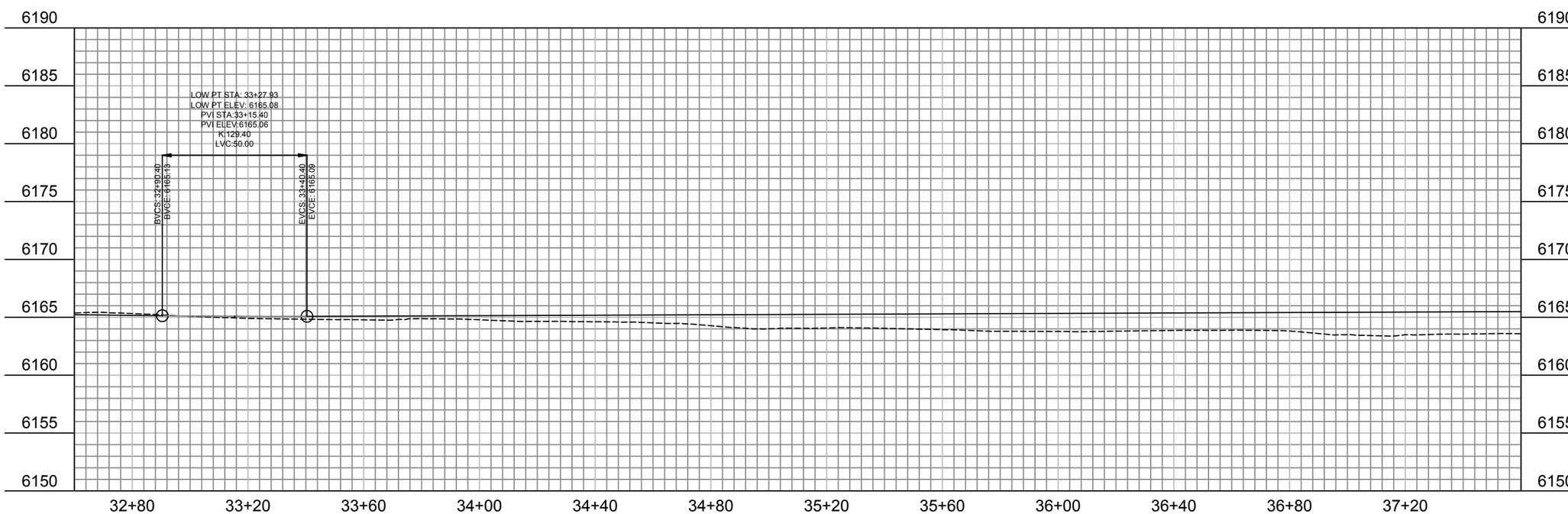

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MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

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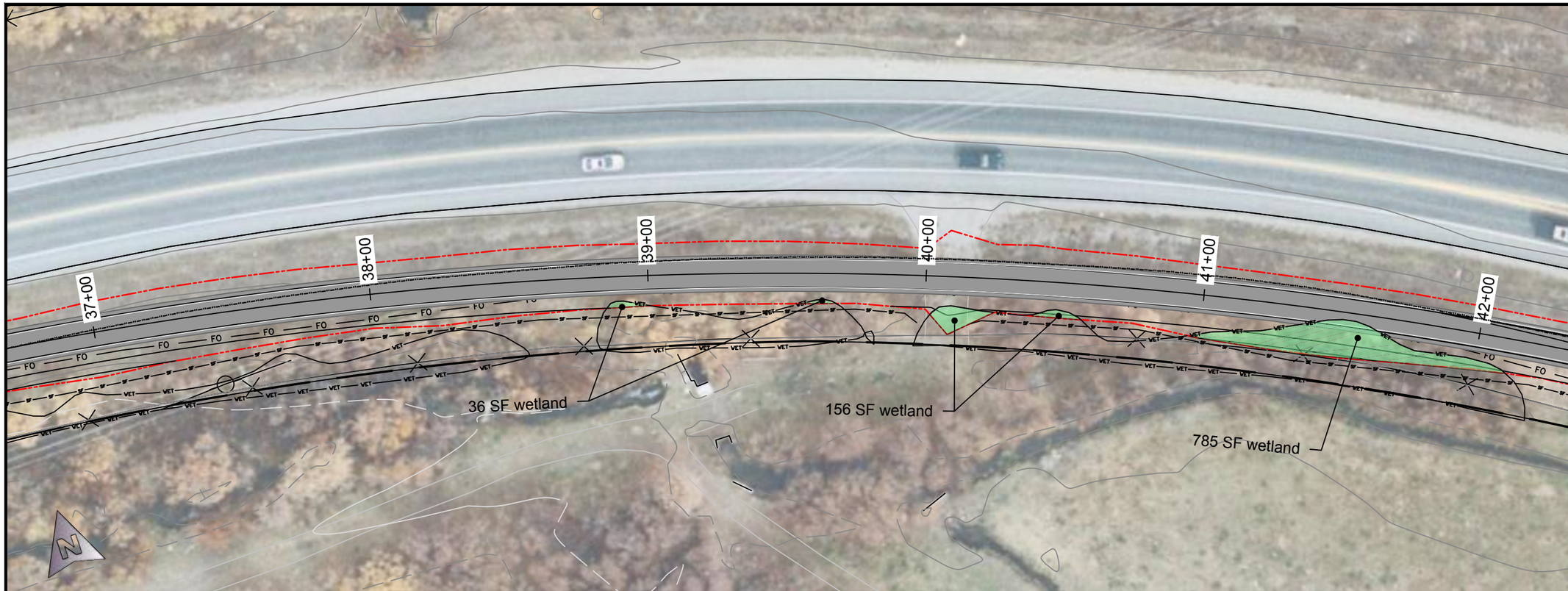

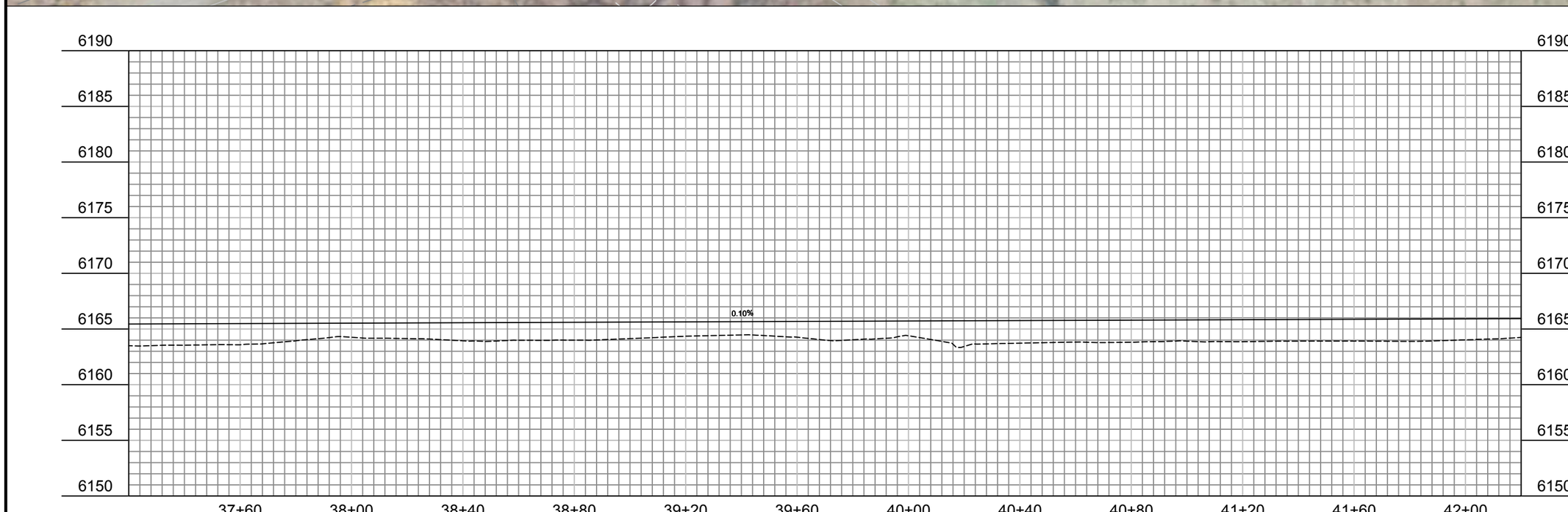

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MIDDLE SECTION PHASE 2
CATTLE TUNNEL
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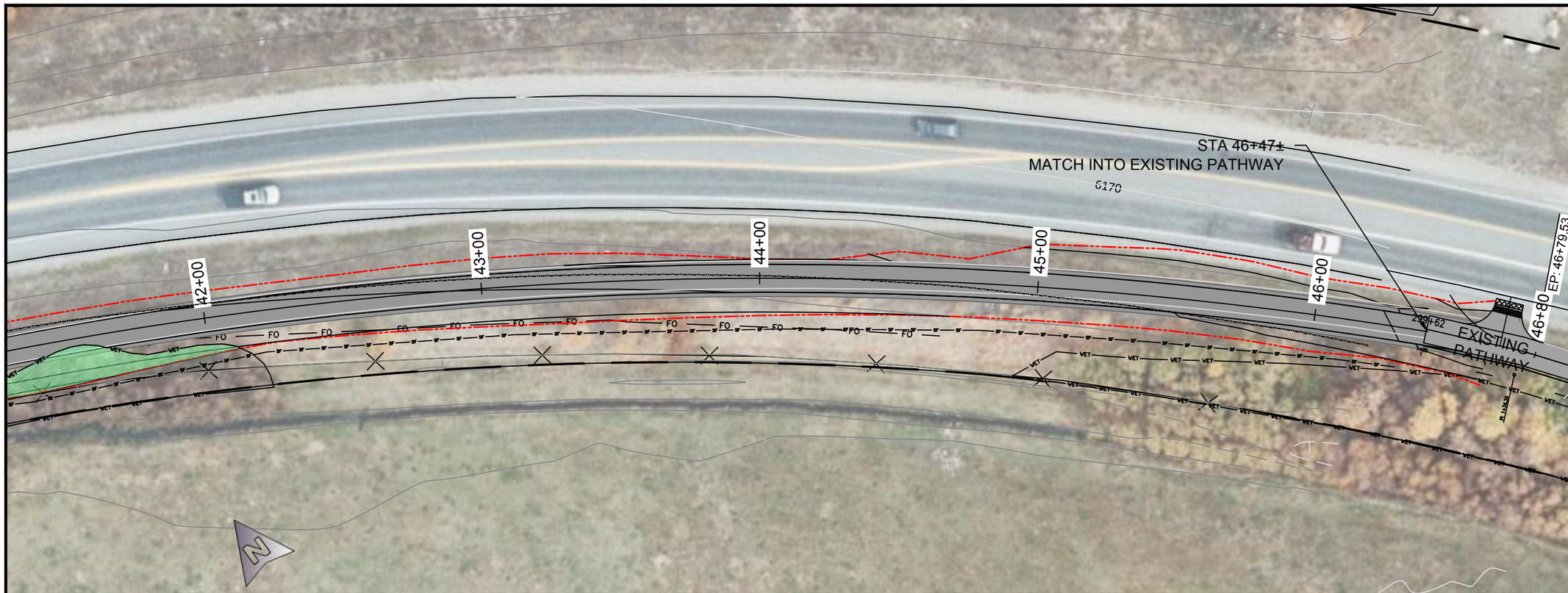

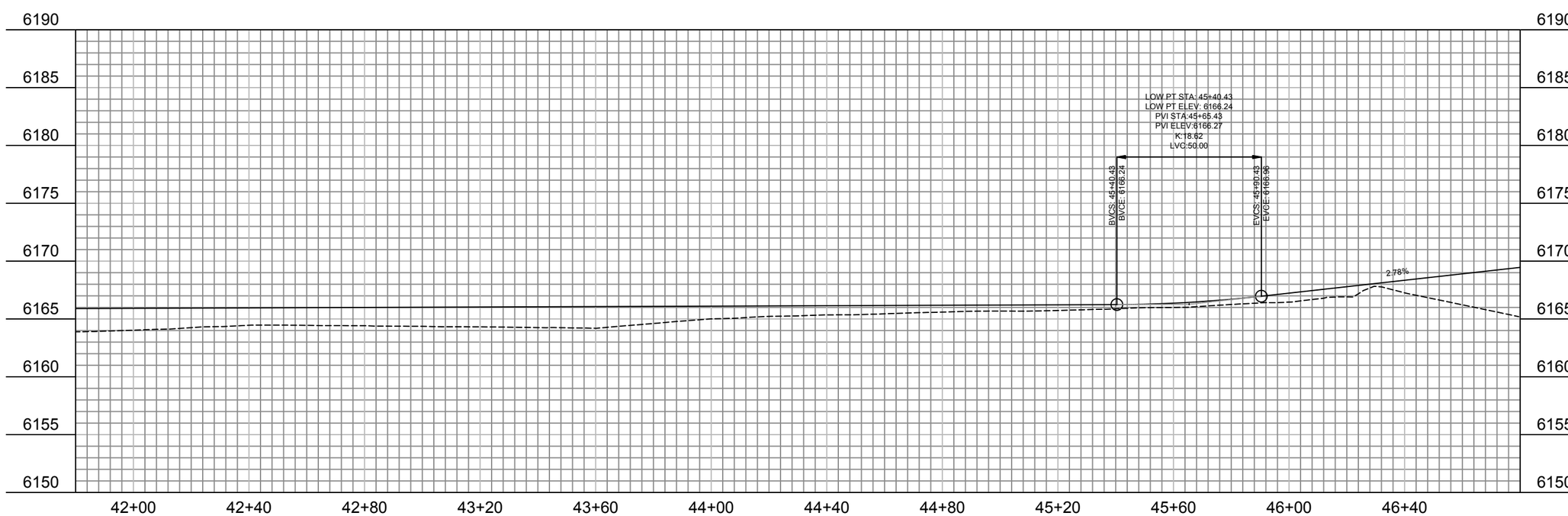

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CATTLE TUNNEL
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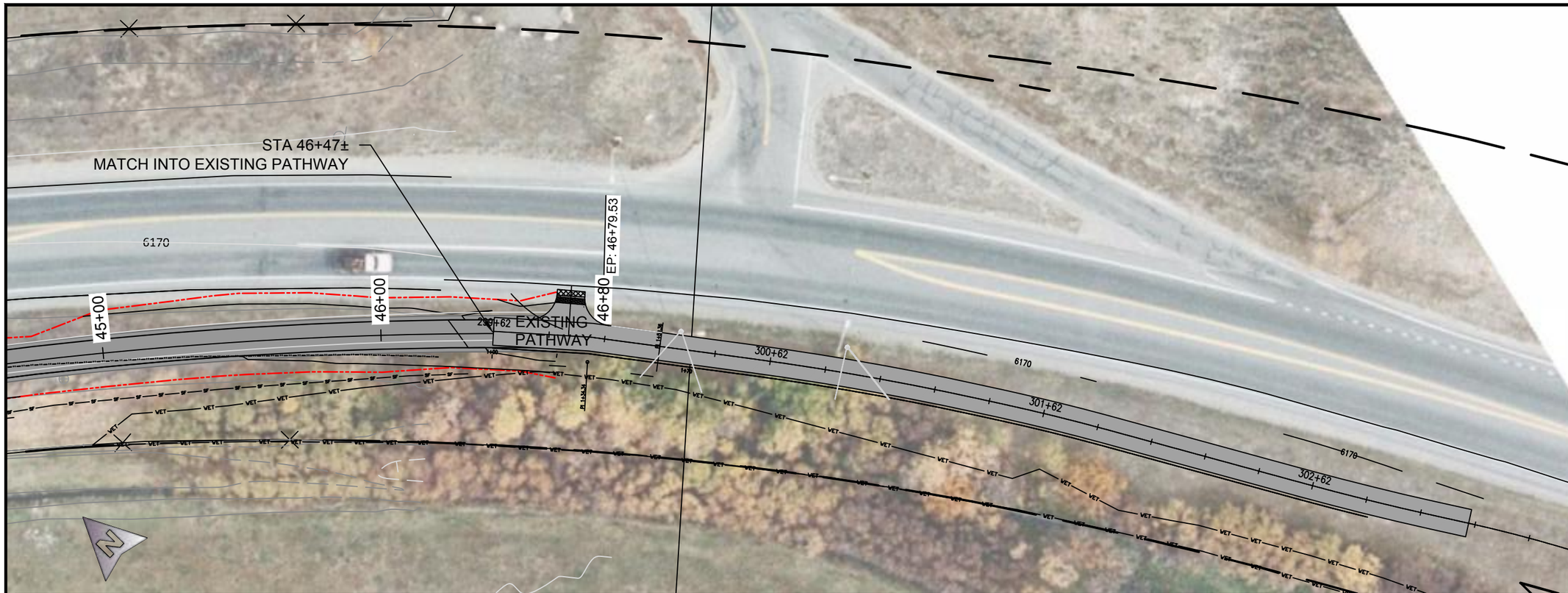

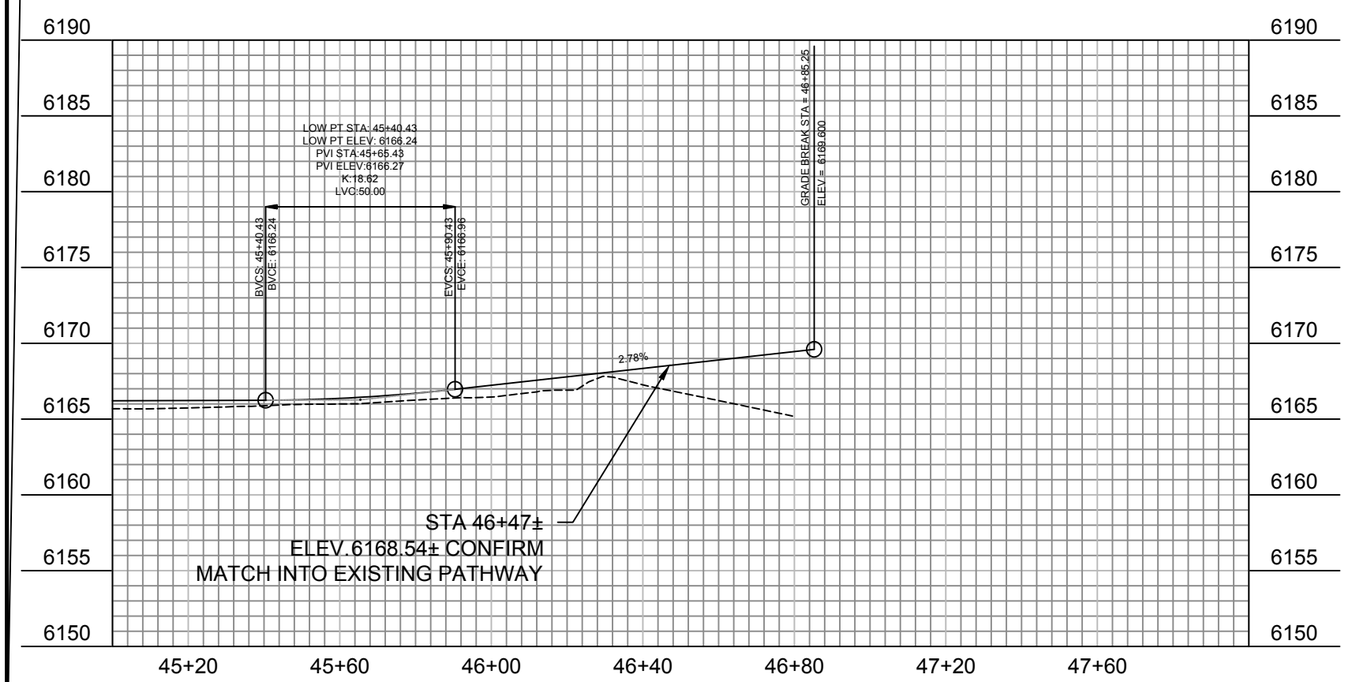

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MIDDLE SECTION PHASE 2
CATTLE TUNNEL
TO SPRING GULCH

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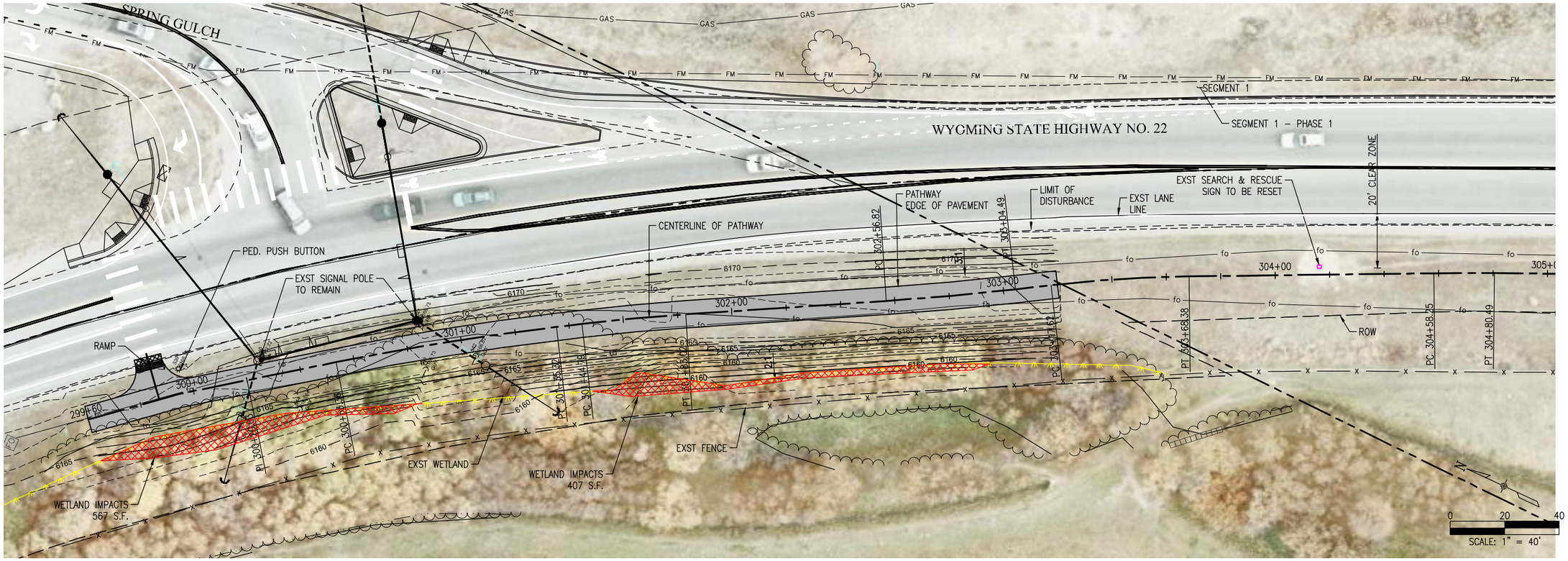
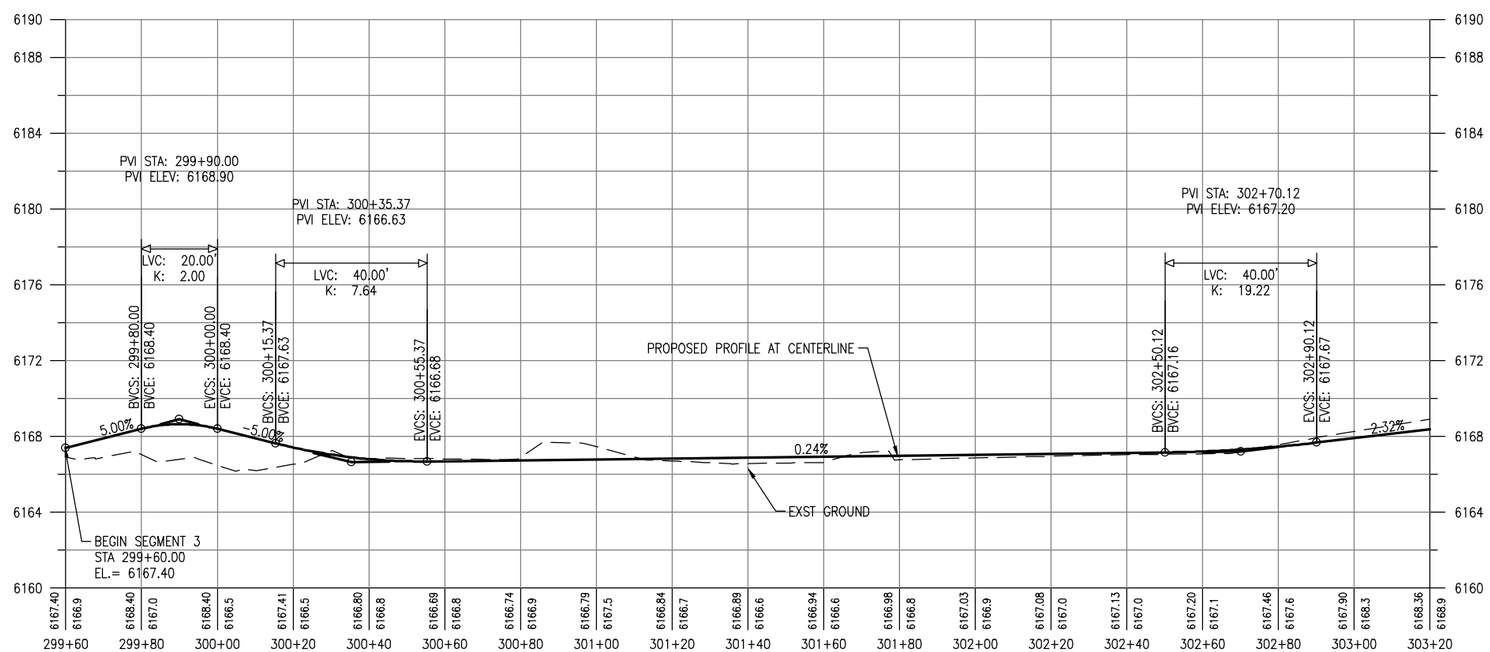
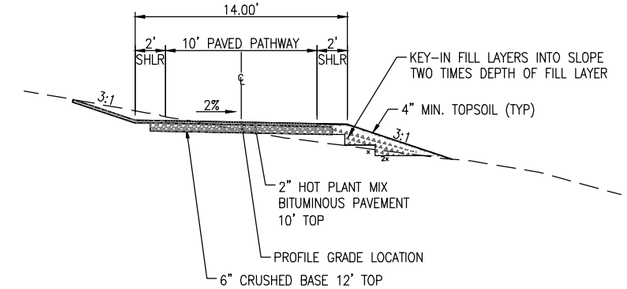
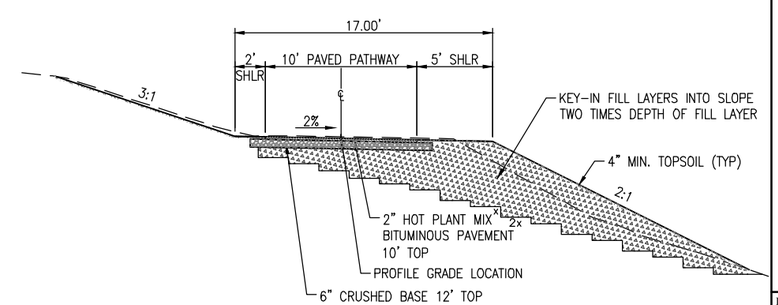






1 C3.01 PATHWAY TYPICAL SECTION SEGMENT 3
NTS



2 C3.01 PATHWAY TYPICAL SECTION SEGMENT 3
NTS

PLAN VERSION	DATE	DRAFTER	APPROVED
Phase 2 - 95% DD	11/07/2014	LX	SJB
Phase 2 - Bid Set	06/04/2014	LX	SJB
Plan Revision	07/15/2015	LX	SJB
Plan Revision	08/18/2015	LX	SJB
Plan Revision	10/12/2015	LX	SJB
Plan Revision	02/22/2016	LX	SJB

SHEET TITLE:
SEGMENT 3
PLAN & PROFILE
STA 299+60 TO STA 303+20

PROJECT TITLE:
JH Community Pathways
Pathway 22 East
Phase 2 Construction
Teton County, Wyoming

Loris and Associates, Inc.
100 Superior Plaza Way
Suite 220
Superior, Colorado 80027
303.444.2073
www.LorisandAssociates.com

JORGENSEN ASSOCIATES, P.C.
Civil Engineers • Land Surveyors
P.O. Box 9504, 270 East Simpson Ave., Jackson, Wyoming 83002
(307) 733-5150 FAX (307) 733-5187
Email: jeffjorgensen@wyoming.com

PROJECT NUMBER
11001.06

SHEET
C3.01

Plotted by JGong on Feb 23, 2016 - 8:27am
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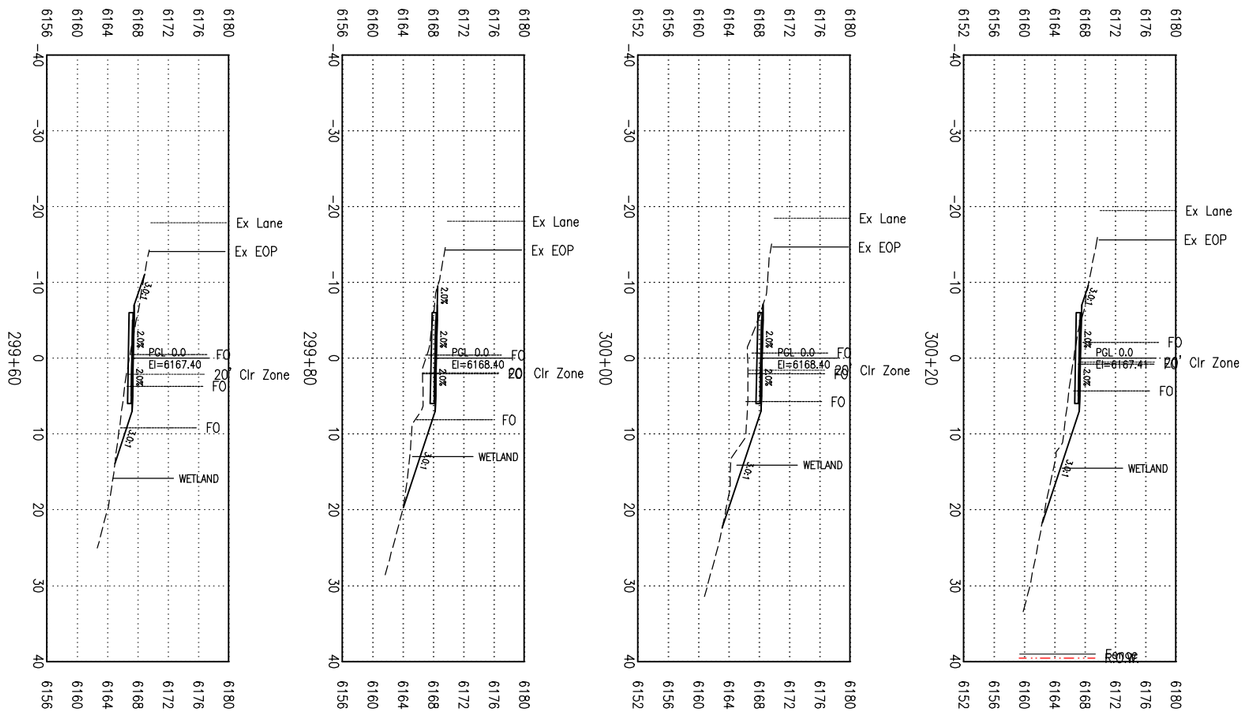

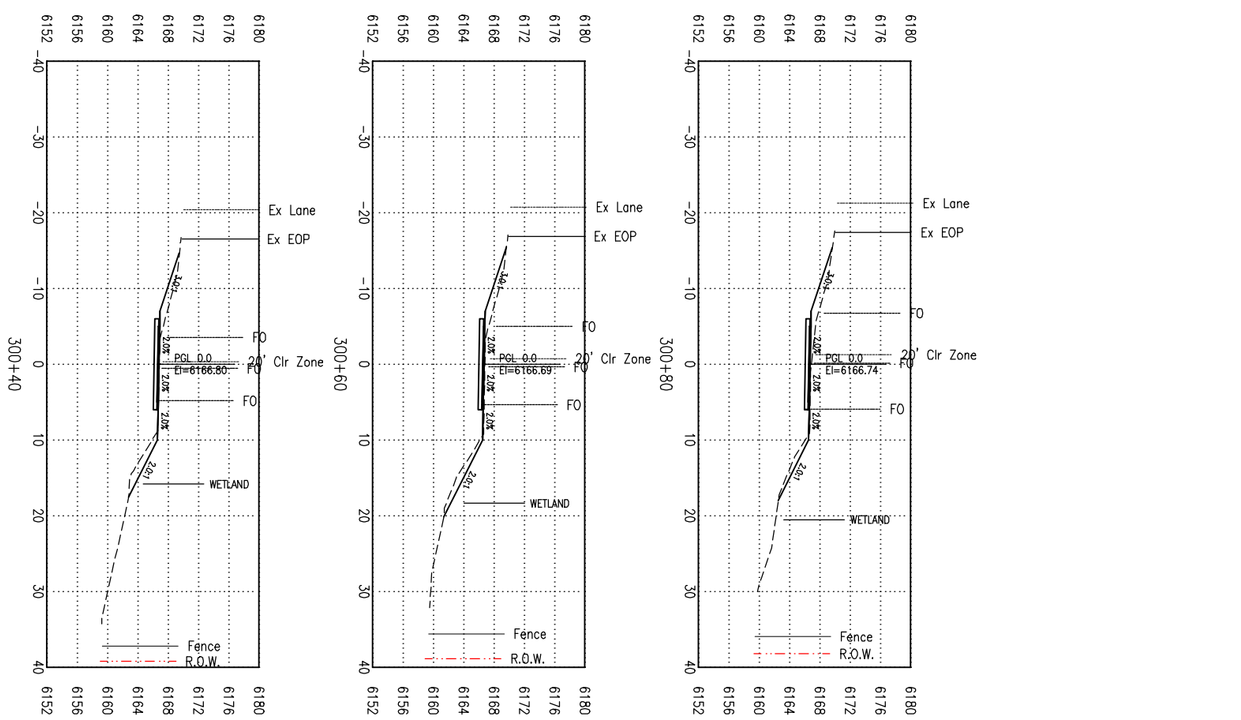

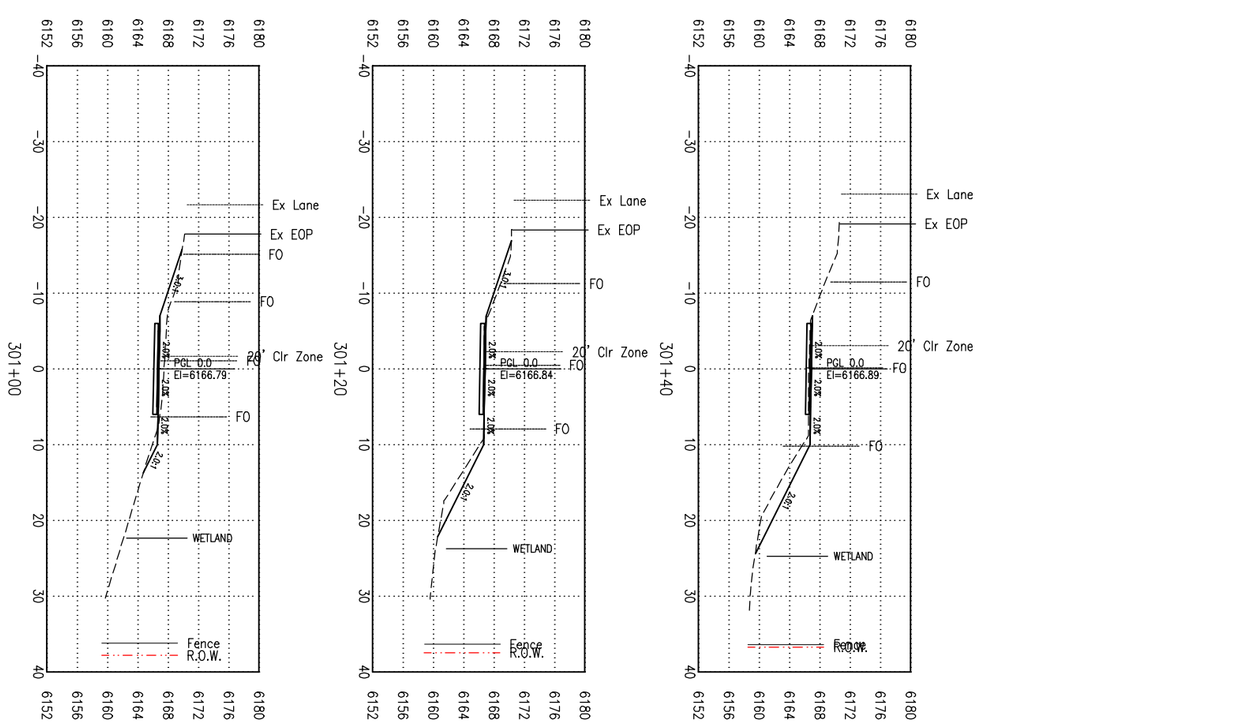

SHEET C3.03

PROJECT NUMBER 11001.06

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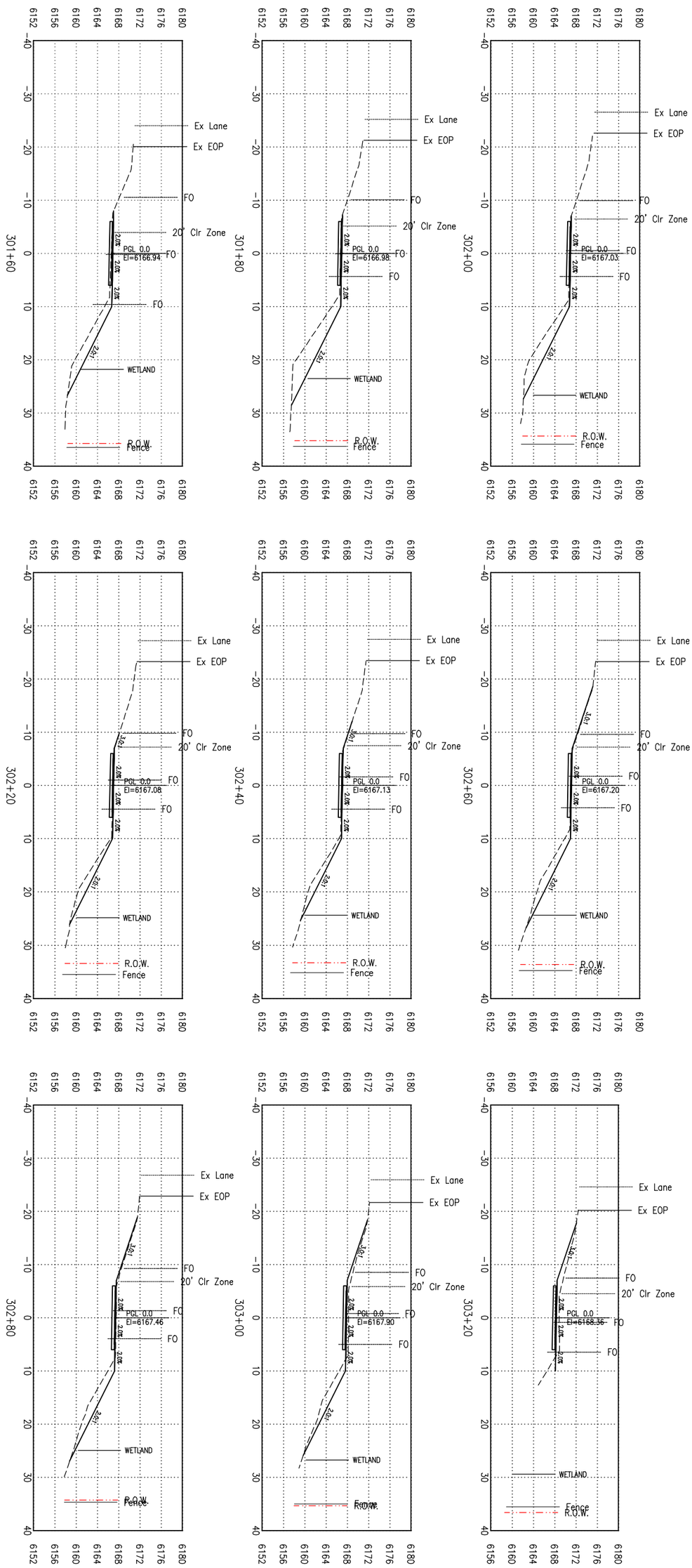
PROJECT TITLE:
JH Community Pathways
Pathway 22 East
Phase 2 Construction
Teton County, Wyoming

SHEET TITLE:
SEGMENT 3
CROSS SECTIONS

PLAN VERSION	DATE	DRAFTER	APPROVED
Phase 2 - 95% DD	11/07/2014	LX	SJB
Phase 2 - Bid Set	06/04/2014	LX	SJB
Plan Revision	07/15/2015	LX	SJB
Plan Revision	08/18/2015	LX	SJB
Plan Revision	10/12/2015	LX	SJB
Plan Revision	02/22/2016	LX	SJB



SHEET C3.04

PROJECT NUMBER 11001.06

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PROJECT TITLE:
JH Community Pathways
Pathway 22 East
Phase 2 Construction
Teton County, Wyoming

SHEET TITLE:
SEGMENT 3
CROSS SECTIONS

PLAN VERSION	DATE	DRAFTER	APPROVED
Phase 2 - 95% DD	11/07/2014	LX	SJB
Phase 2 - Bid Set	06/04/2014	LX	SJB
Plan Revision	07/15/2015	LX	SJB
Plan Revision	08/18/2015	LX	SJB
Plan Revision	10/12/2015	LX	SJB
Plan Revision	02/22/2016	LX	SJB

PLANT SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	NOTES
TREES					
	Fraxinus pennsylvanica 'Patmore"	Patmore Ash	3" CAL	41	B&B
GRASSES / TURF					

Bluegrass Sod

16,410 SF

Fescue Sod

11,840 SF

Seed Mix #1 - Hillside

29,499 SF

Bluebunch wheatgrass (Pseudoroegneria spicata) - 4.8 lbs/ac
Sandberg bluegrass (Poa secunda) - 0.8 lbs/ac
Idaho fescue (Festuca idahoensis) - 1.4 lbs/ac
Slender wheatgrass (Elymus glaucus) - 2.8 lbs/ac
*QuickGaurd Sterile Triticale hybrid - 10.0 lbs/ac
Mountain big sagebrush (Artemisia tridentata ssp. vaseyana) - 0.4 lbs/ac
Basin wild rye (Leymus cinereus) - 0.6 lbs/ac
Rubber rabbitbrush (Ericameria nauseosa) - 0.2 lbs/ac
Common yarrow (Achillea millefolium) - 0.1 lbs/ac

Total Application Rate = 21.1 Pounds/Acre

* Sterile triticale has been added to Seed Mix #1 as a nurse crop to provide fast-growing, short-term vegetative growth to assist with erosion control prior to the full establishment of the slower growing native perennial species. The triticale is sterile and will not produce viable seed. Therefore, it will only be present during the initial growing season.

Seed Mix #2 - Meadow

6,152 SF

Slender wheatgrass (Elymus glaucus) - 4.8 lbs/ac
Bluebunch wheatgrass (Pseudoroegneria spicata) - 3.2 lbs/ac
Sandberg bluegrass (Poa secunda) - 0.8 lbs/ac
Idaho fescue (Festuca idahoensis) - 1.2 lbs/ac
Western wheatgrass(Pascopyrum smithii) - 1.6 lbs/ac

Total Application Rate = 11.6 Pounds/Acre

MISC. SHRUBS, ORNAMENTAL GRASSES & PERENNIALS TO REPLACE EXISTING DISTURBED PLANT MATERIAL

ESTIMATED QUANTITIES:

#5 Shrub to match existing
400 S.F. @ 36" O.C. = **44 Total**

#1 Ornamental grass to match existing
400 S.F. @ 18" O.C. = **176 Total**

#1 Perennial to match exisiting
302 S.F. @ 18" O.C. = **133 Total**

PLANTING NOTES

1. Refer to civil engineer's utility and grading plans. If site conditions vary from what is shown, contact the landscape architect and civil engineer for direction before proceeding.

2. Verify locations and timing of site improvements installed under other sections. If any part of the work cannot be completed due to site conditions, contact the landscape architect.

3. Obtain approval of finish grading from landscape architect prior to installing any plant material. The finish grades of planting areas and lawns shall be 1 1/2 inches below adjacent edging or paving. (Confirm mulch depth and whether lawns are to be seed or sod).

4. Excavation near underground utilities shall be done carefully and, if necessary, by hand. The contractor is fully responsible for this work and any disruption to utilities or damage to the site and/or improvements shall be repaired immediately at no expense to the owner.

5. Confirm all plant counts and square footages: quantities shown are provided as owner information only. If quantities indicated in the plant list differ from symbols shown on the plans, then the plans shall govern the plant count.

6. The landscape architect shall review all plant materials at the source or nursery - or by photographs - prior to digging trees or shipping plant materials. The landscape architect reserves the right to reject any unacceptable plant material either at the source or when delivered to the project site.

7. Carefully align and space plant materials as indicated in these notes, drawings and details.

8. The final location of plant materials is to be approved by the landscape architect on site prior to installation. The contractor is responsible for staking or marking the location of all plant materials on site for review by the landscape architect. The landscape architect reserves the right to adjust the exact locations of plants on site.

9. All plants shall be planted at the same level with relation to finish grade as they were grown in the field or nursery.

10. Do not perform any pruning of existing or newly planted trees or shrubs without the direction and approval of the landscape architect.

11. Provide burlap wrap or other approved trunk protection for all new trees during installation.

12. For ball & burlap trees, remove burlap from top 1/3 of rootball once trees are fully planted, unless directed otherwise by nursery.

13. The landscape architect shall review and reserves the right to reject the method and/or installation of tree staking and guying systems prior to acceptance.

14. All disturbed areas to be seeded with seed mix noted in the Fall. Ensure proper watering for adequate germination.

PERMANENT IRRIGATION NOTES

1. A Town of Jackson owned and operated irrrigation system shall be installed within the right-of-way to irrigate all proposed street trees and fescue sod. This design-build system shall be maintained by the Town of Jackson Parks and Recreation Department. The proposed design-build system, tap, and equipment location shall be reviewed and approved by Parks and Recreation.

2. All existing privately owned irrigation systems disturbed by construction shall be repaired and/or retrofitted.

3. Irrigation system shall include separate zones between sod types, trees and other vegetation to ensure appropriate amount of water for each. Sod shall be spray irrigated and all trees and shrubs to be drip irrigated.

4. Irrigation components shall match or exceed the quality of adjacent private system components.

5. The irrigation system shall be operational prior to plant installation, or temporary irrigation measures shall be provided in the interim. The method of temporary irrigation shall be approved by the landscape architect prior to installing any plant material.

TEMPORARY IRRIGATION NOTES (REVEGETATION)

1. All disturbed areas seeded with revegation seed mix #1 or #2, whether inside or outside the right-of-way, shall receive temporary irrigation.

2. Temporary irrigation via a sprinkler system or watering truck shall be undertaken to enhance seed germination and accelerate seedling growth during the first two growing seasons. The specified species are native and adapted to the regional climate; therefore, no irrigation will be required after the stand has become established. When seeded in the Fall under the winter snowpack, sufficient moisture should be available through spring or early summer. Soil moisture conditions shall be closely monitored, and irrigation shall be initiated when the upper portion of the soil profile begins to dry out (likely in June). Irrigation shall occur twice per week, or as needed, through the dry summer months (June-September).

EROSION CONTROL BLANKET NOTES

1. Erosion control fiber mesh required on slopes greater than 3:1. See specifications for more information.

6,930 SF

TREE PROTECTION FENCING NOTES

1. Provide perimeter fencing to protect existing adjacent trees and vegetation from construction activity.

1,098 LF

STONE SCHEDULE

SYMBOL		QTY	NOTES
	Native Boulders	8	½ - 1½ ton; equal distribution
	River Cobble Paving	4,320 SF	2"-8" diameter cobbles

LIGHTING SCHEDULE

SYMBOL		QTY	NOTES
O	Street Light	33	See civil plans for details

PLAN VERSION	DATE	DRAFTER	APPROVED
50% Drawing Set	01/06/2012		
90% Drawing Set	12/28/2012		
Phase 2 - Bid Set	06/04/2014		

SHEET TITLE
Plant, Stone, & Lighting Schedules and Notes

PROJECT TITLE
JH Community Pathways
Pathway 22 East
Phase 2 Construction
Teton County, Wyoming

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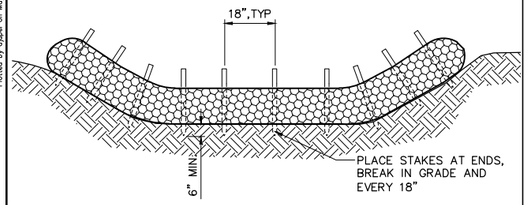
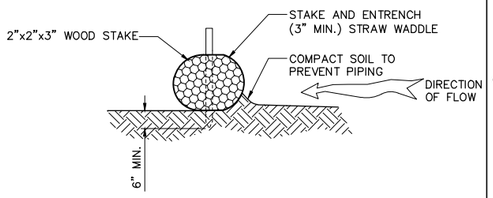
PROJECT NUMBER
10126

SHEET
L2.0

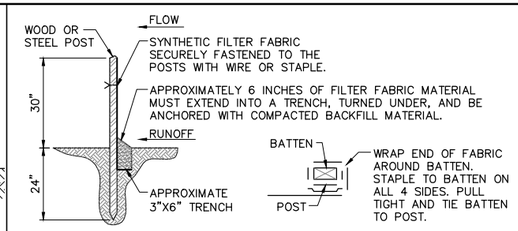


FRONT VIEW

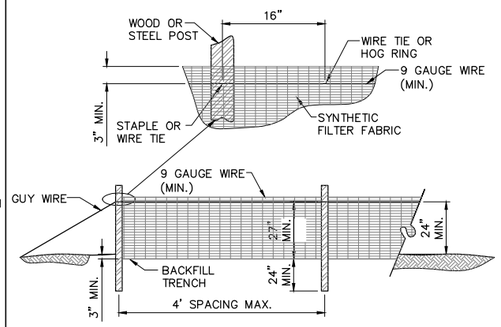


SECTION VIEW

1 C14.01 STRAW WATTLE BARRIER
SCALE: NTS



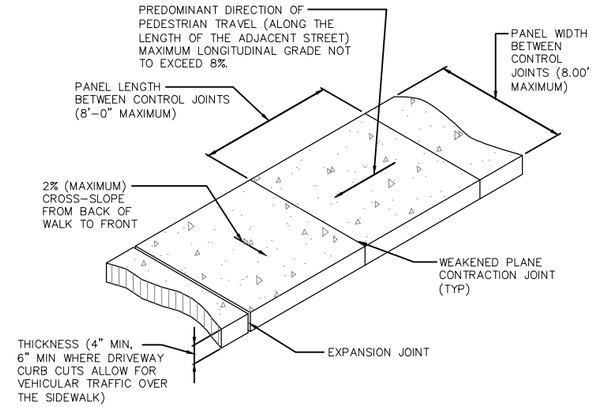
STAKING DETAIL



SILT FENCE

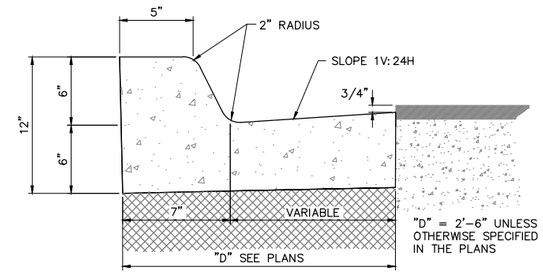
NOTES:
1. TIE WIRES TO LAP FOR LONG FENCES AND TO BE GUYED TO GROUND WITH 24"X2"X2" HARDWOOD STAKE OR TO POST BOTTOM EVERY 4 SPANS.
2. SILT FENCE LOCATED ADJACENT TO ALL WETLAND AREAS.
3. TURN ENDS OF SILT FENCE UP TO CAPTURE RUNOFF WHEN END OF SILT FENCE IS LOCATED AT A LOW POINT.

2 C14.01 SILT FENCE
SCALE: NTS



NOTES:
1. SIDEWALK SHALL CONFORM TO ALL APPLICABLE ADA STANDARD REQUIREMENTS. SIDEWALKS SHALL BE FIBERMESH-REINFORCED CLASS 4000 PORTLAND CEMENT CONCRETE CONFORMING WITH WYDOT SECTION 414.
2. EXPANSION JOINTS SHALL BE PLACED IN SIDEWALK AT THE SAME LOCATIONS AS THOSE IN CURB AND GUTTER WHEN SIDEWALK IS ADJACENT TO CURB. (PER WYDOT SECTION 414, SPACING SHALL NOT EXCEED 32'-0" ON CENTER.)
3. FOR SIDEWALKS GREATER THAN SIX FEET IN WIDTH, A LONGITUDINAL CONTROL JOINT SHALL BE INSTALLED AT THE CENTER OF THE WALK.
4. REMOVAL AND REPLACEMENT OF SIDEWALK SHALL TAKE PLACE IN FULL PANELS.
5. AGGREGATE BASE COURSE SHALL BE SIX INCH MINIMUM THICKNESS, CONFORM TO WYDOT SECTION 803, GRADING K, AND BE INSTALLED PER WYDOT SECTION 301.

3 C14.01 TYPICAL SIDEWALK DETAIL
SCALE: NTS

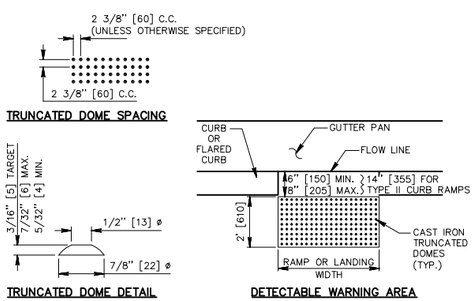


TYPE A

NOTES:
1. CONSTRUCTION OF CURB AND GUTTER SHALL CONFORM TO WYDOT SECTION 609.
2. SUBGRADE COMPACTION SHALL CONFORM TO WYDOT SUBSECTION 203.4.3.
3. 1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AT P.C., P.T. CURB TURNS, JUNCTIONS WITH EXISTING CONCRETE, AROUND RIGID STRUCTURES, AND AT INTERVALS OF 150 FEET OR LESS IN CONTINUOUS RUNS OF CURB, CURB AND GUTTER, AND DOUBLE GUTTER.
4. *CONTRACTION JOINTS SHALL COMPLY WITH WYDOT SECTION 609.4.3.3.
5. NO CURB AND GUTTER SHALL BE PLACED WITHOUT FINAL FORM INSPECTION BY THE ENGINEER.
6. CLASS B CONCRETE SHALL BE USED IN ACCORDANCE WITH SUBSECTION 513.4.4.

*CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING OR SCORING, WHEN SCORING A TOOL SHALL BE USED WHICH WILL LEAVE CORNERS ROUNDED AND DESTROY ALL AGGREGATE INTERLOCK FOR SPECIFIED MINIMUM DEPTH.

4 C14.01 WYDOT CURB & GUTTER
SCALE: NTS

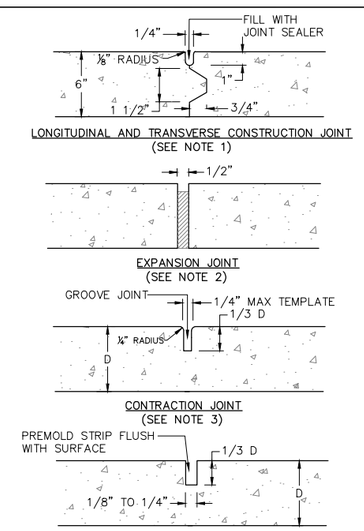


COLORED DETECTABLE WARNING DEVICES

COLORED DETECTABLE WARNING DEVICES ARE REQUIRED TO PROVIDE CANE DETECTION FOR THE VISUALLY IMPAIRED WHEREVER THERE IS AN ENTRANCE FROM A PEDESTRIAN FACILITY TO A TRAFFIC LOCATION WITHOUT A VERTICAL CURB DROP OFF OR CURB FLARE (WITH THE EXCEPTION OF DRIVEWAYS AND APPROACHES). PLACE THE COLORED DETECTABLE WARNING AREA 6 IN TO 8 IN [150 TO 205] FROM THE GUTTER FLOW LINE (UNLESS OTHERWISE SHOWN) AND EXTEND 2 FT [610] PERPENDICULAR TO THE CURB & GUTTER. ENSURE THE DETECTABLE WARNING AREA IS THE FULL WIDTH OF THE RAMP OR LANDING AS APPLICABLE. DO NOT USE THE DETECTABLE WARNING AREAS ON CURB RAMP FLARES. CONSTRUCT THE COLORED DETECTABLE WARNING AREA BY PLACING TRUNCATED DOMES IN A RECTANGULAR ARRAY AS SHOWN. ENSURE THE ENTIRE COLORED DETECTABLE WARNING AREA IS COLORED TO CONTRAST FROM THE ADJACENT CONCRETE. USE THE COLOR RED BRICK (FLAT RED) WHEN CONTRASTING AGAINST STANDARD PLAIN CONCRETE UNLESS OTHERWISE SHOWN IN THE PLANS. IF THE ADJACENT CONCRETE IS COLORED, USE A COLOR FOR THE DETECTABLE WARNING THAT IS A 70% CONTRAST FROM THE COLORED CONCRETE. ADA WILL USE THE COLOR YELLOW IN THIS SITUATION.

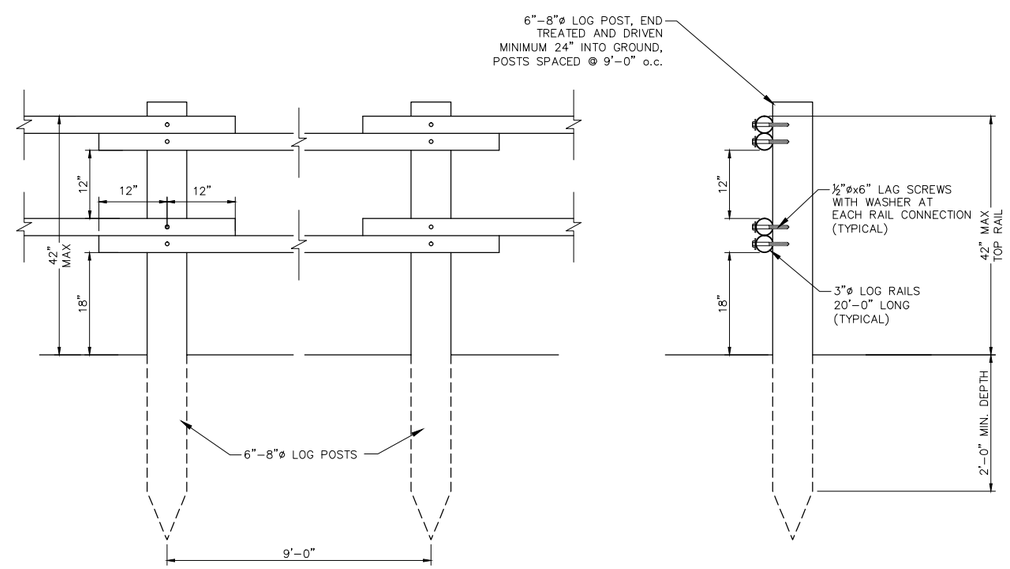
SPACE AND DIMENSION THE DOMES IN A UNIFORM PATTERN THROUGHOUT. DO NOT ALLOW THE HEIGHT OF THE TRUNCATED DOMES TO EXCEED 7/32 IN [6]. USE A HEIGHT OF 5/32 IN [4] AS A MINIMUM. ENSURE THE VALLEY SURFACE IS FLUSH WITH THE ADJACENT SIDEWALK SURFACE.

5 C14.01 DETECTABLE WARNING DEVICES
SCALE: NTS



NOTE:
1. KEYWAY FORMED BY FASTENING METAL KEY TO FORM.
2. 1/2" PREMOLDED NON-EXTRUDING EXPANSION JOINT MATERIAL TO MEET AASHTO M-59. EXPANSION MATERIAL SHALL BE INSTALLED WHEN ABUTTING EXISTING CONCRETE OR FIXED STRUCTURES SUCH AS INLETS AND DRIVEWAYS, AND EVERY 300' ON LONG STRAIGHT CONCRETE STRETCHES.
3. FORM WITH TEMPLATE OR SAWCUT JOINTS. IF SAWCUT JOINTS ARE USED, THEY SHALL BEGIN AS SOON AS CONCRETE IS HARDENED SUFFICIENTLY TO PERMIT SAWING WITHOUT EXCESSIVE RAVELING AND BEFORE UNCONTROLLED CRACKING OCCURS. MAXIMUM DISTANCE BETWEEN JOINTS IS 10'. MAXIMUM DISTANCE IS 5'.
4. JOINT LAYOUT FOR CONCRETE STREETS IS TO BE SUBMITTED TO THE TOWN ENGINEER FOR APPROVAL.

6 C14.01 CONCRETE JOINT DETAILS
SCALE: NTS



7 C14.01 POST AND RAIL FENCE DETAIL
SCALE: NTS

PLAN VERSION	DATE	DRAFTER	APPROVED
50% Submittal	01/06/2012	CB	AJ
90% Submittal	12/28/2012	CB	AJ
Phase 2 -95% DD	01/07/2014	CB	AJ
Phase 2 - Bid Set	06/04/2014	CB	AJ

SHEET TITLE: General Sidewalk Details

PROJECT TITLE: JH Community Pathways
Pathway 22 East
Phase 2 Construction
Teton County, Wyoming

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PROJECT NUMBER 11001.30

SHEET C14.01

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APPENDIX B – AQUATIC RESOURCES INVENTORY REPORT