



Public Meeting

SD Highway 34 Bridge Replacements & Approach Grading Bridge Erosion Protection

SD34 Bridges Located 6.0, 9.4, 17.6 & 19.5 Miles NE of SD79

P 0034(143)44

PCN 02AB

Meade County

Karen Olson

SDDOT Road Design Engineering Supervisor



Project Locations

Bridge Replacement & Approach Grading:

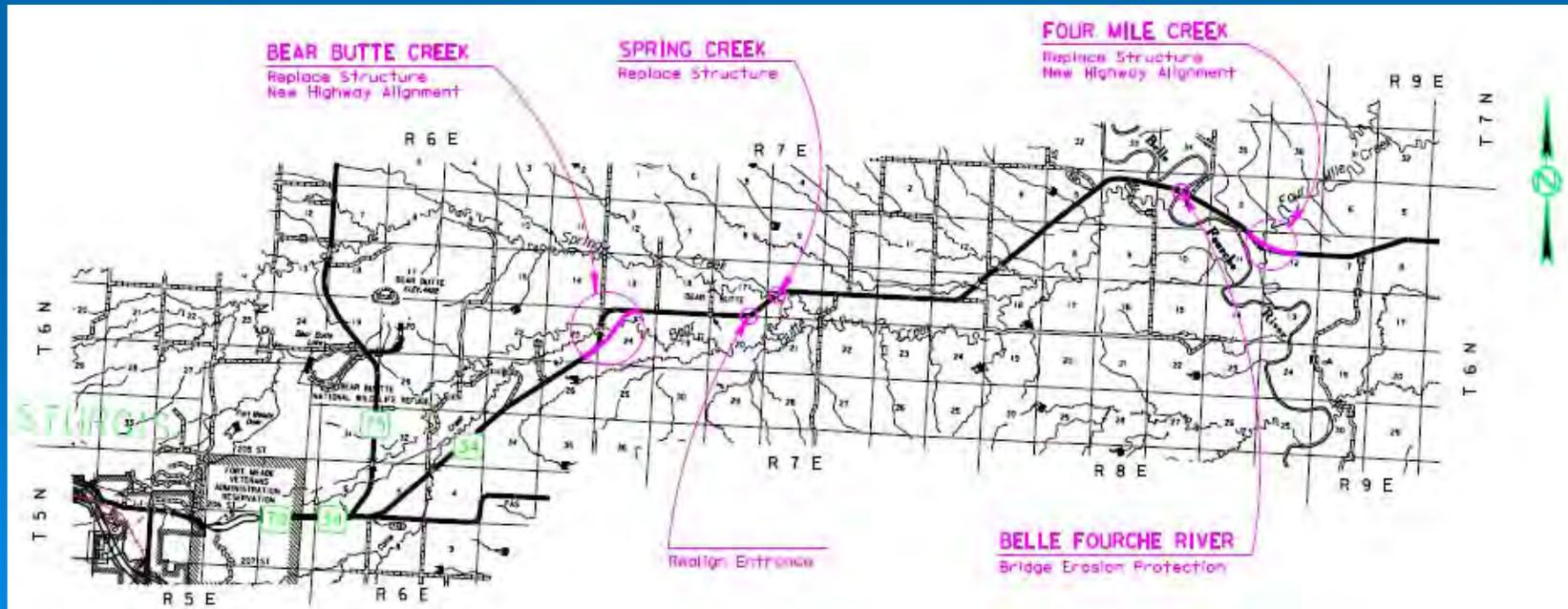
Bear Butte Creek – 6.0 Miles NE of SD79

Spring Creek – 9.4 Miles NE of SD79

Four Mile Creek – 19.5 Miles NE of SD79

Bridge Erosion Protection:

Belle Fourche River – 17.6 Miles NE of SD79





Background Information

➤ Originally Constructed in:

Bear Butte Creek ~~1950~~ 1935

- Bridge widened with new deck in 1950

Spring Creek 1957

Four Mile Creek 1950

➤ Average Daily Traffic for SD34 Project:

Current (2011) 658

Projected (2031) 760

Trucks 7.0%



Accident History

January 1, 2006 to December 31, 2011

Bear Butte Creek: 14 Accidents, 2 Injuries, 1 Fatal

4 Animal Related

2 Guardrail Hits

3 Weather Related

1 Sign Hit

4 Overcorrection

Spring Creek: 4 Accidents, 0 Injuries, 0 Fatal

4 Animal Related

Four Mile Creek: 2 Accident, 0 Injuries, 0 Fatal

1 Animal Related

1 Guardrail Hit - due to speed and curve



Needs

- Replace aging bridges due to their condition.
- Adjust highway horizontal and vertical alignment curves to meet the posted speed limit.
- Adjust highway alignment to improve safety and meet current design standards.
- Extend riprap at Belle Fourche River along SW channel bank.



Project Scope

- Provide replacement drainage structures to meet hydraulic requirements.
- Improve highway alignment.
 - Improve highway curves to meet current design criteria for posted speed limit.
 - Move curves away from structures where possible.
- Realign intersecting roads to be perpendicular with the highway.
- Provide 12 ft driving lanes & 6 ft shoulders
- Estimated cost to construct is \$4.1 M.

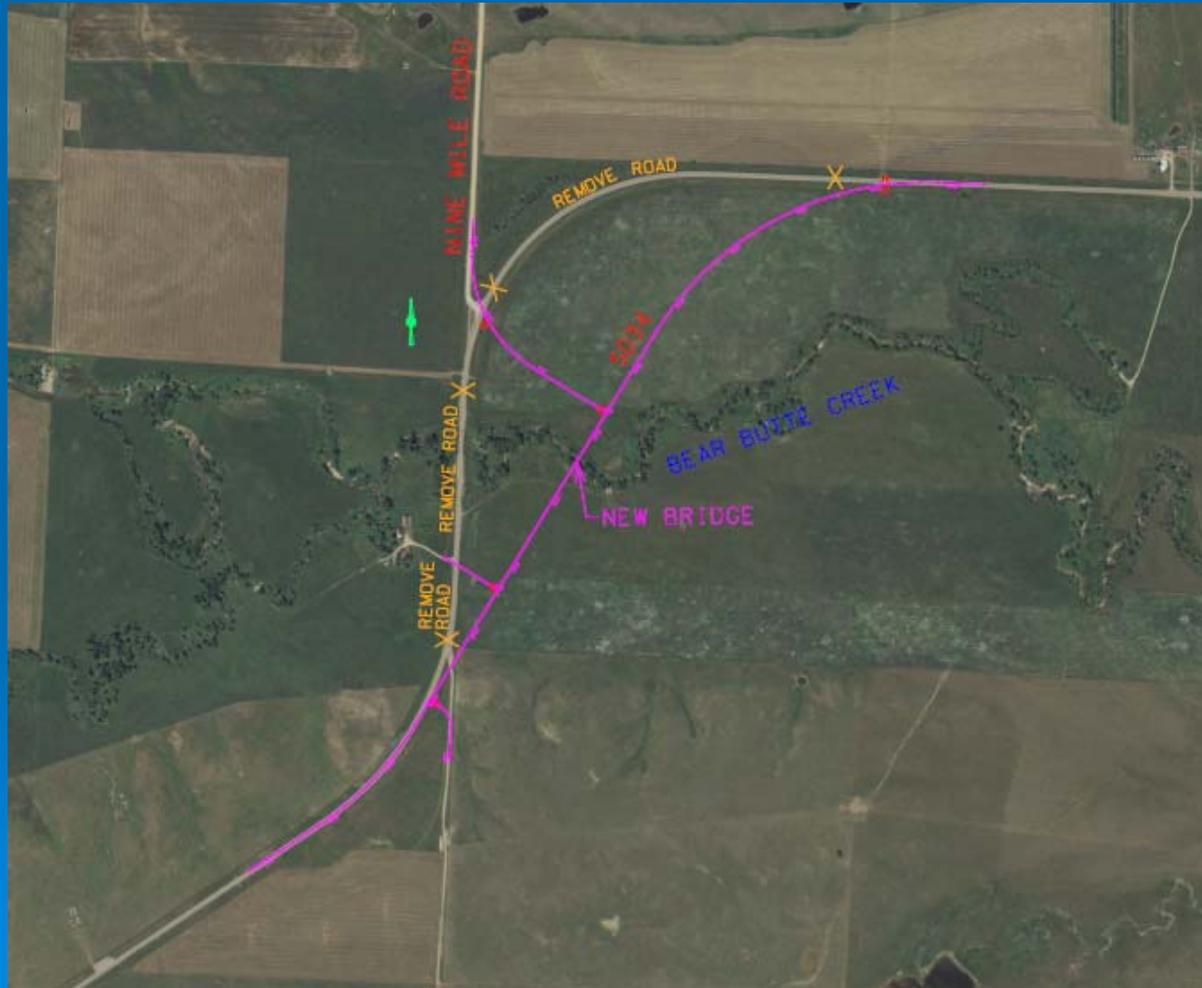


Bear Butte Creek

Proposed Location: New Alignment (Remove Old Highway)

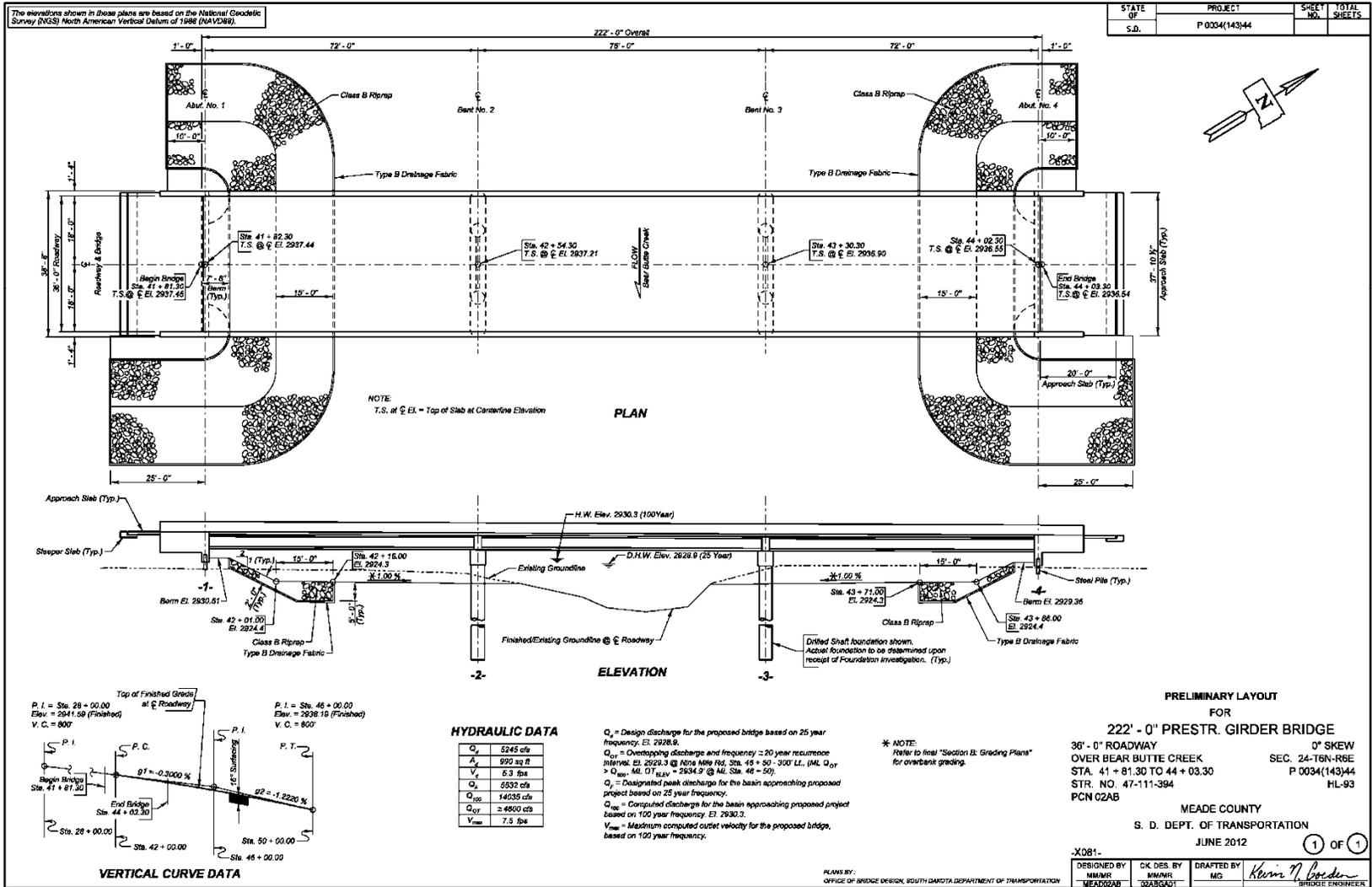
Proposed Structure: 222' Girder Bridge (36' wide)

Existing Structure: 162' Girder Bridge (30' wide)





Bear Butte Creek Proposed Structure





Spring Creek

Proposed Structure Location: Existing Alignment

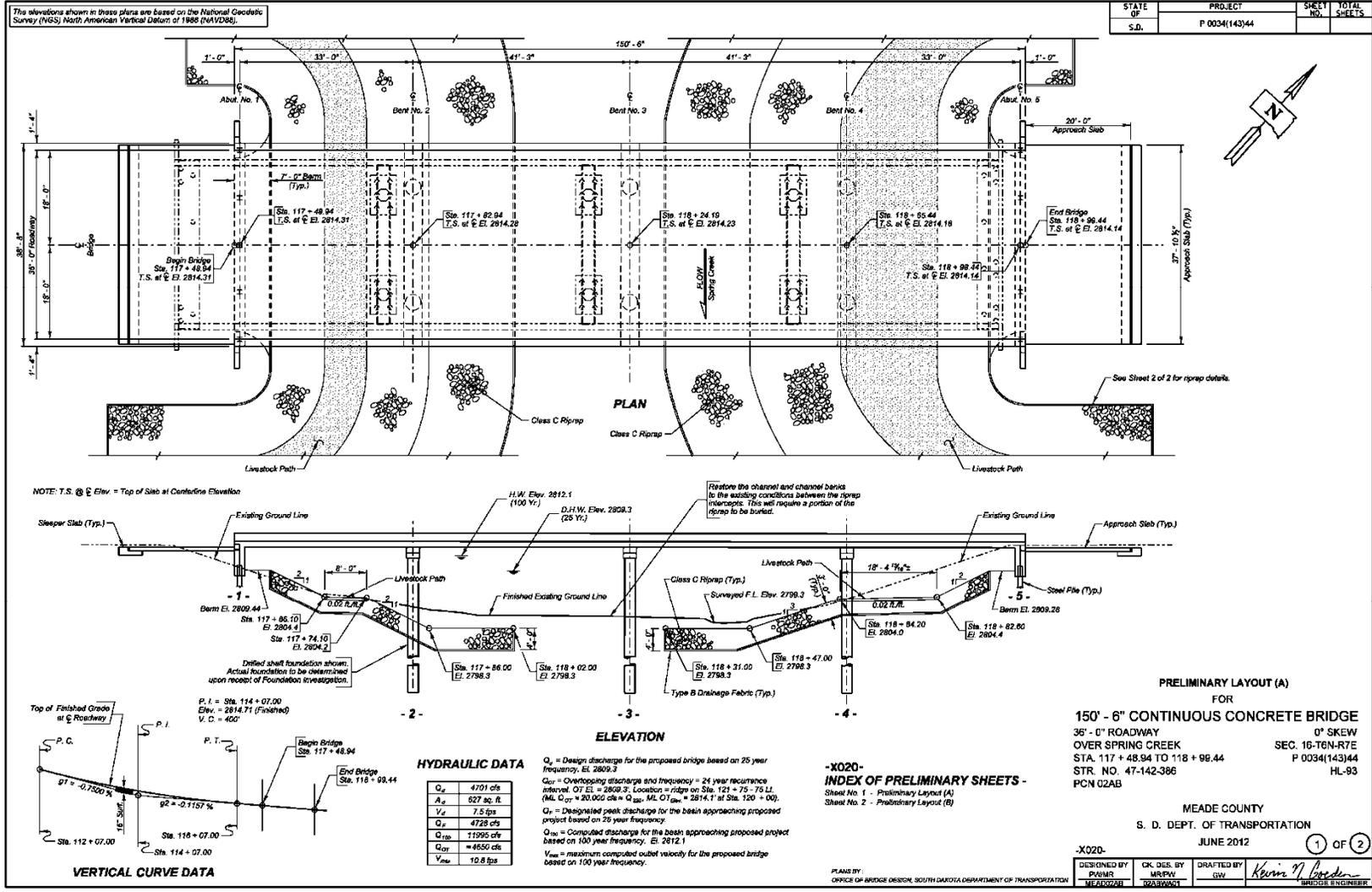
Proposed Structure: 150.5' Concrete Slab Bridge (36' wide)

Existing Structure: 157.5' Girder Bridge (30' wide)





Spring Creek Proposed Structure





Spring Creek

Proposed Entrance Location: New Alignment
(Remove Existing Entrance)





Four Mile Creek

Proposed Location: New Alignment (Remove Old Highway)

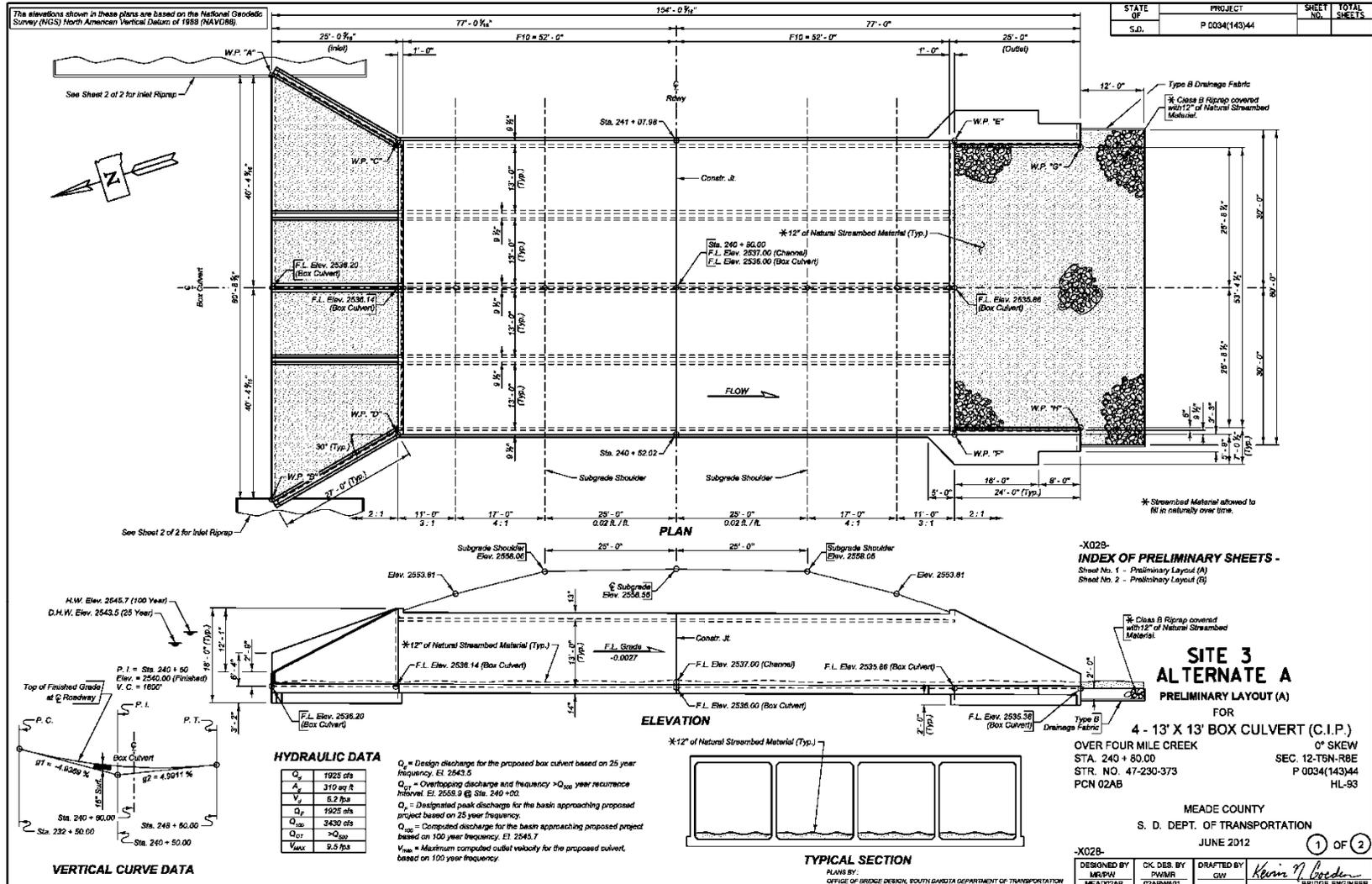
Proposed Structure: 4-13'x13' Concrete Box Culvert

Existing Structure: 196.5' Girder Bridge (30' wide)





Four Mile Creek Proposed Structure



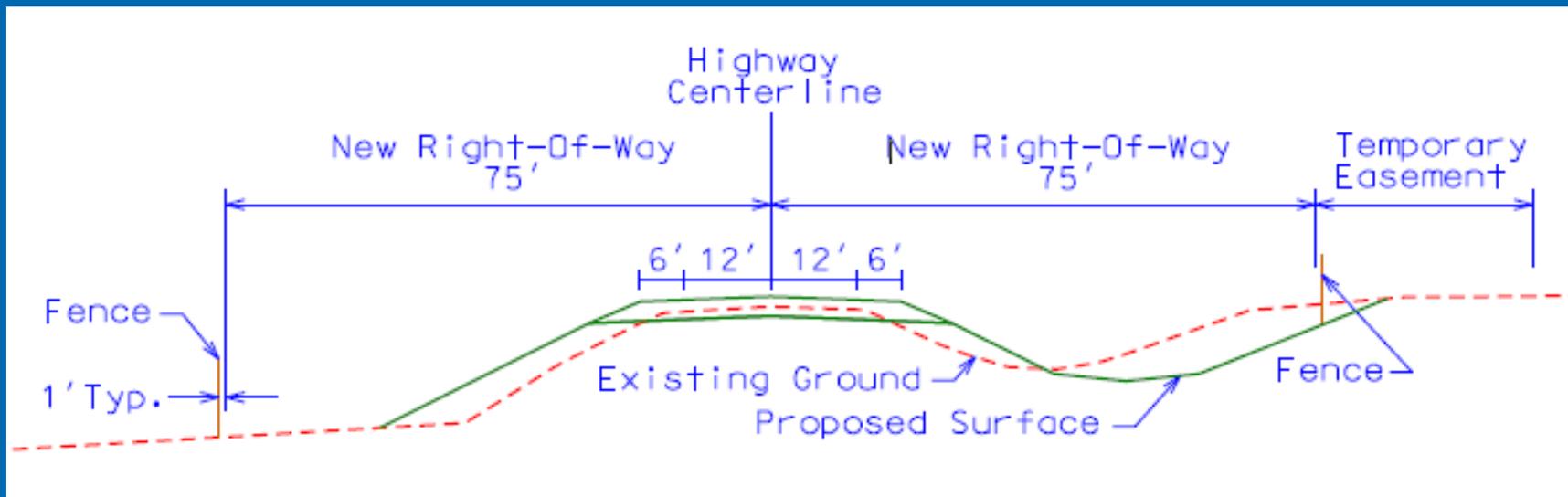


Right of Way

- ROW will be acquired to 75 feet from centerline along the new SD34 alignments at Bear Butte Creek & Four Mile Creek.
- ROW will be acquired to 50 feet from centerline along the new Nine Mile Road alignment.
- Existing highway ROW may be abandoned along the old highway alignments.
- Temporary Easements will be acquired for construction.



Right of Way





Construction Traffic Plan

- Highway will remain open.
- Traffic will remain on the current highway and bridge during construction of the new alignment at Bear Butte Creek and Four Mile Creek.
- Traffic diversion will be provided around the new bridge construction at Spring Creek.
- Access to adjacent property will be maintained.



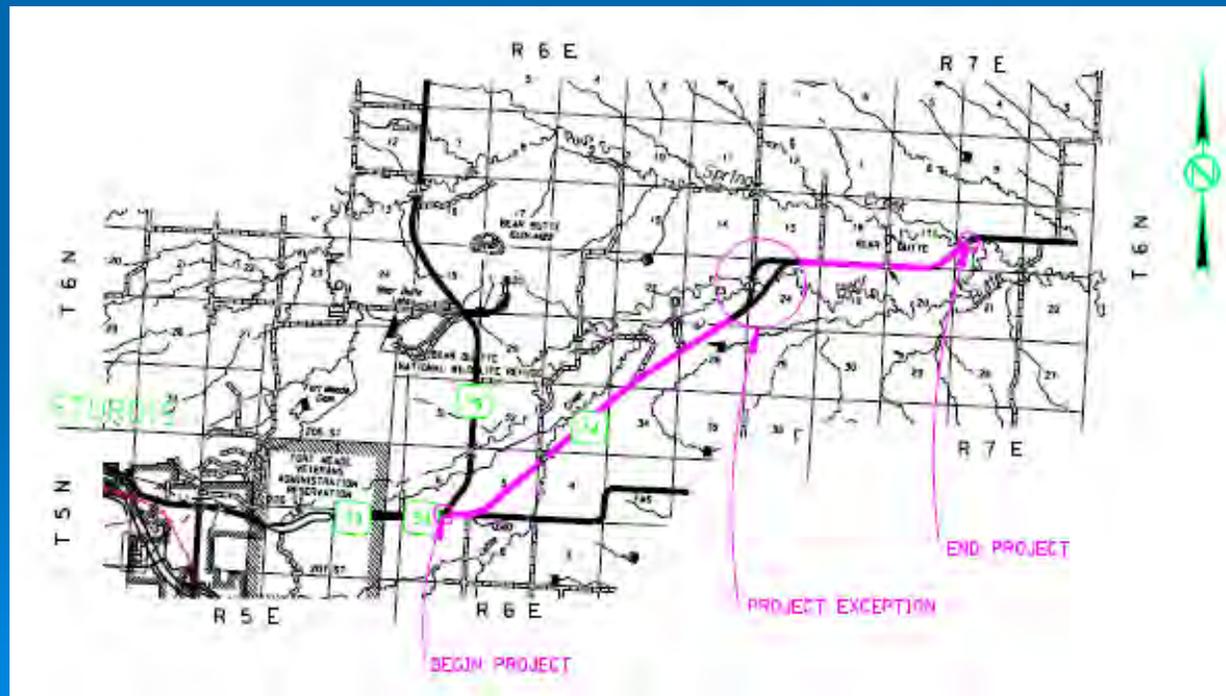
DOT Project Process

- Public Meeting: June 28, 2012
- Individual Landowner Meetings: June 28, 2012
 - Discuss Right-of-Way needs, fences, entrances, private utilities, drainage, other
- Final Design: Summer 2012
- ROW Negotiations with Landowners: Early 2013
- Letting: Fall 2013
- Construction: 2014



Future Projects

- SD 34 Shoulder Widening with Mill and Asphalt Resurfacing from SD 79 to Spring Creek.
 - Currently Scheduled for Construction in 2016.





Questions or Comments?

Please Provide Comment Forms or Letters
to the following by July 8, 2012:

Karen Olson
SDDOT
700 E Broadway Ave
Pierre SD, 57501

Karen.Olson@state.sd.us

Public Meeting Information @
www.sddot.com/dot/publicmeetings