

**APPANOOSE CO.**  
**PIPE CULVERTS**  
**ER-202-2(7)--28-04**

LETTING DATE  
 04-21-2020



## Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

# PRIMARY ROAD SYSTEM APPANOOSE COUNTY PIPE CULVERTS

6.8 mi S and 4.1 mi S of IA 2

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.



REVISIONS

TOTAL

PROJECT IDENTIFICATION NUMBER

20-04-202-010

PROJECT NUMBER

ER-202-2(7)--28-04

R.O.W. PROJECT NUMBER

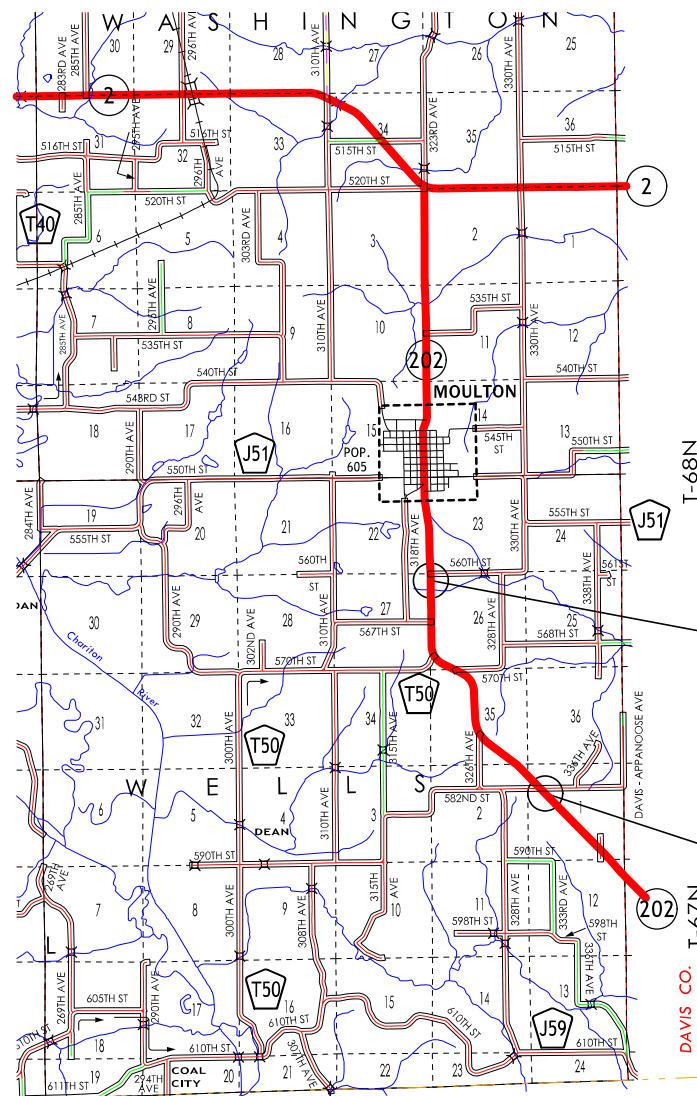
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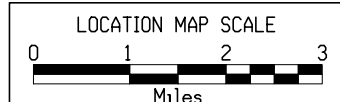
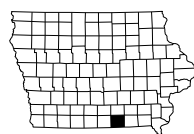
### INDEX OF SHEETS

No.	DESCRIPTION
<b>A Sheets</b>	<b>Title Sheets</b>
* A.1	Title Sheet
<b>B Sheets</b>	<b>Typical Cross Sections and Details</b>
B.1	Typical Cross Sections
<b>D Sheets</b>	<b>Mainline Plan and Profile Sheets</b>
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 3	IA 202 Plan & Profile Sheet
<b>J Sheets</b>	<b>Traffic Control and Staging Sheets</b>
J.1	Traffic Control Plan & 511 Travel Restrictions
J.1	Coordinated Operations
J.1	Staging Notes
* J.2	Detour Route
* J.3	Detour Sign Spacing
<b>W Sheets</b>	<b>Mainline Cross Sections</b>
W.1 - 2	Mainline Cross Sections
	* Color Plan Sheets



Project Location  
Sta. 338 + 41  
Ref. Loc. 6.39

Project Location  
Sta. 193 + 13  
Ref. Loc. 3.66

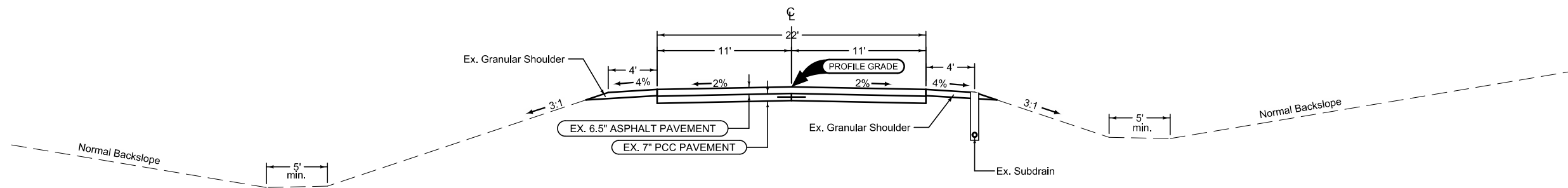


INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	Jonathan W. Bahr	Primary Signature Block

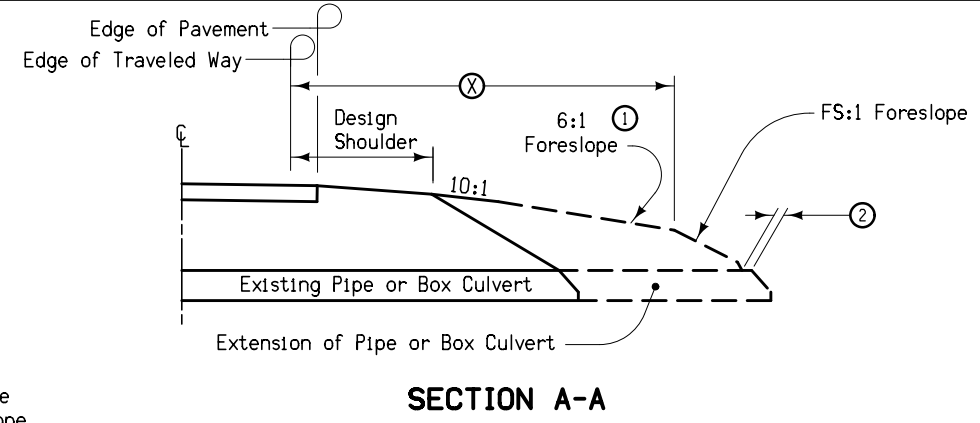
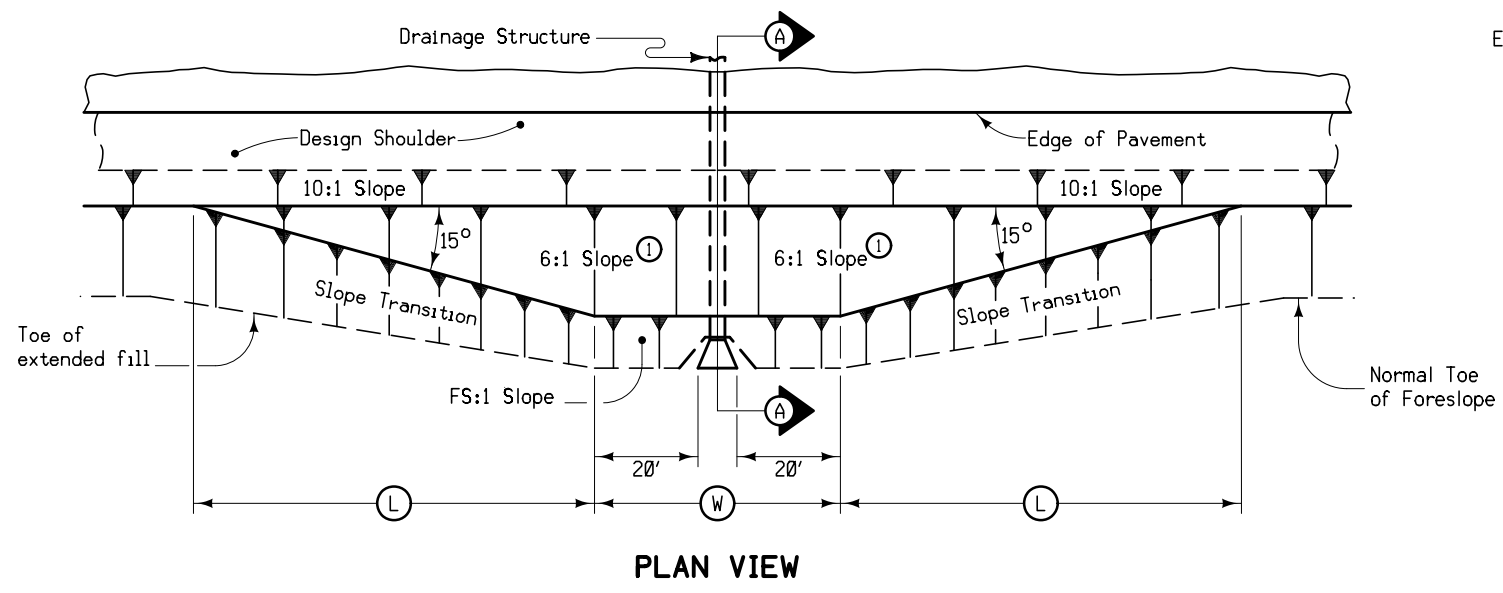
# PRELIMINARY PLANS

Subject to change by final design.

IN-PROGRESS – Date: 1/9/2020



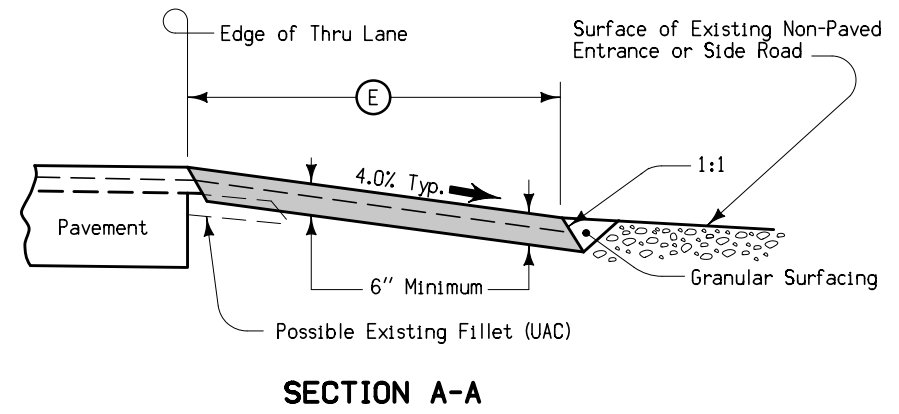
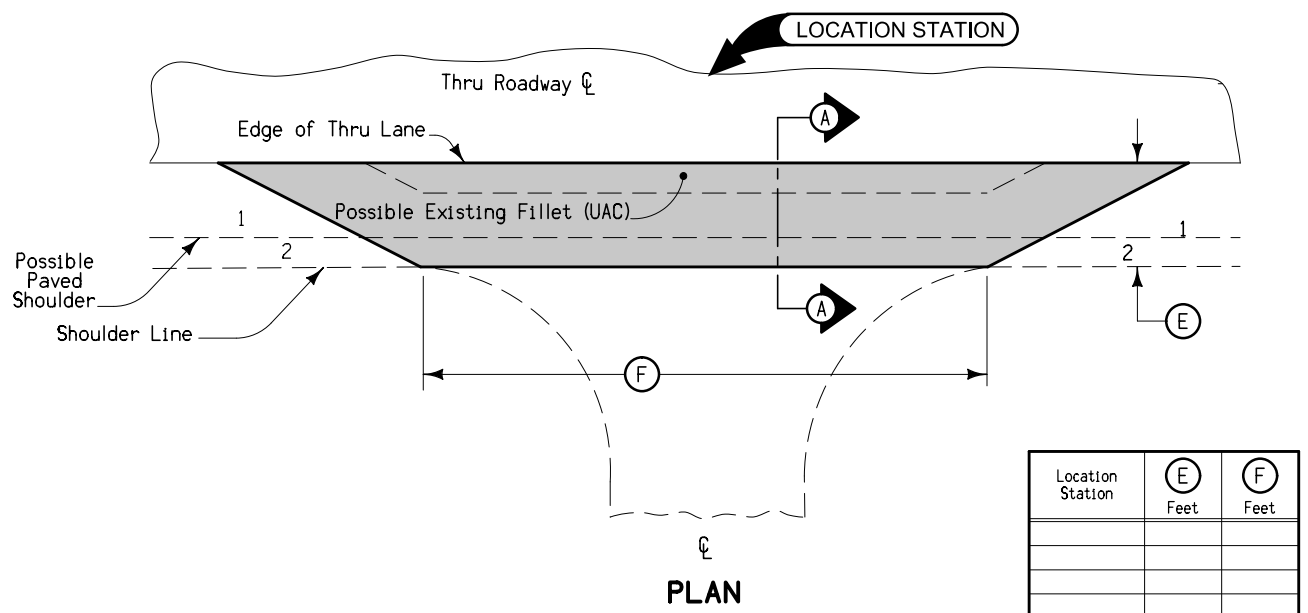
IA 202 EX. TYPICAL SECTION



- Notes:
- At locations where an extended or newly constructed drainage structure extends beyond the normal foreslope cover, flatten the foreslope as indicated so as to cover the structure. Minimum earth cover is 6".
  - ① Slope may be flatter than 6:1.
  - ② 6" Minimum for pipe installations or to top of headwall on R.C.B.
  - Ⓜ = Pipe or R.C.B. opening width plus 20 feet each side.

STRUCTURE LOCATION		Ⓜ	Ⓛ	Ⓧ	FS
STATION	SIDE	Feet	Feet	Feet	

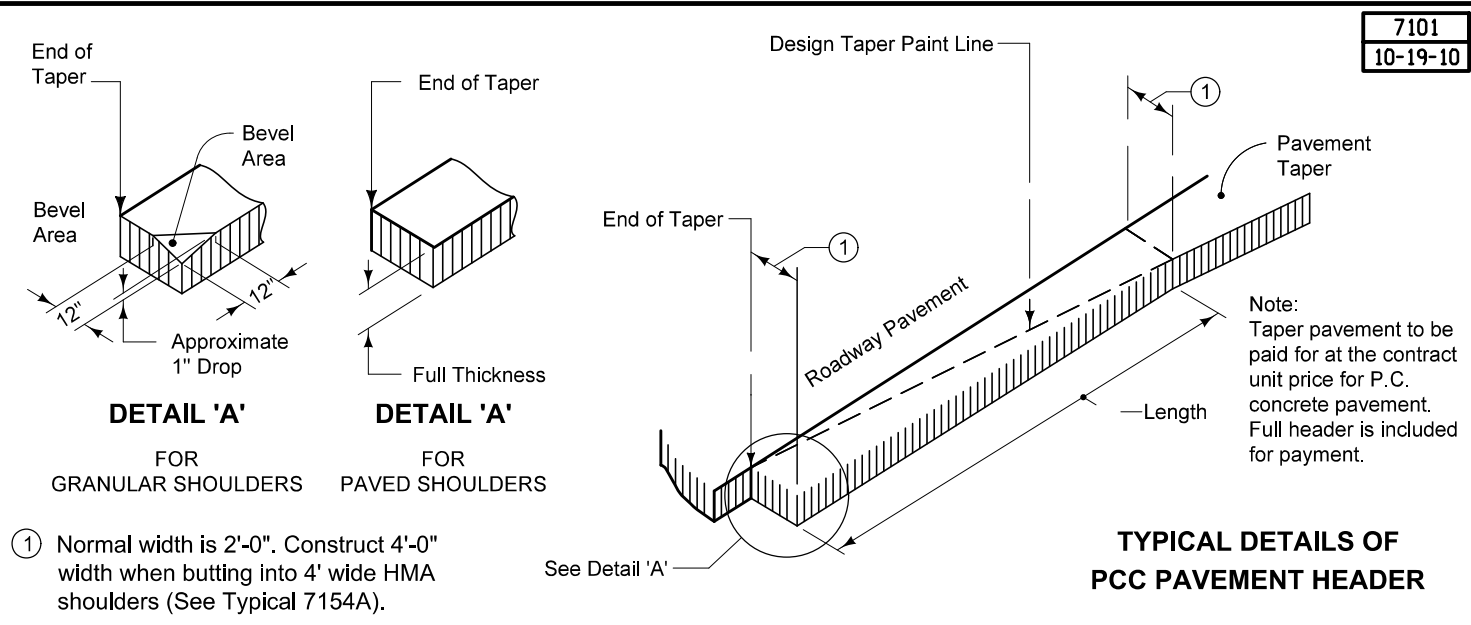
**BARNROOF FORESLOPE AT DRAINAGE STRUCTURE**



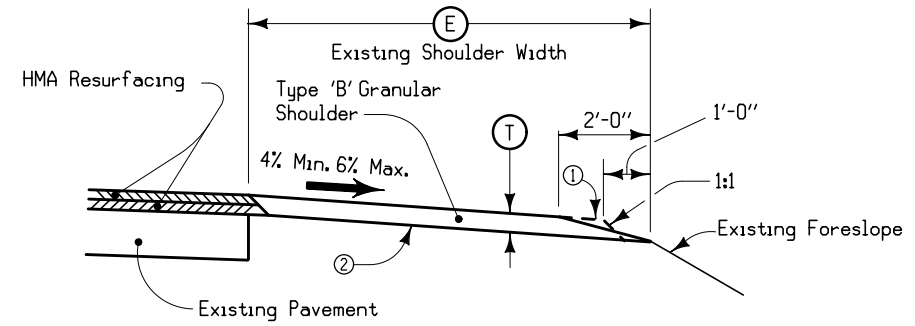
Special shaping of existing surface prior to placement of fillet may be required by the Engineer and is incidental to other work on the project. Quantities included with mainline quantities.

Location Station	E	F
	Feet	Feet

**FILLET FOR NON-PAVED ENTRANCES OR SIDE ROADS**



① Normal width is 2'-0". Construct 4'-0" width when butting into 4' wide HMA shoulders (See Typical 7154A).




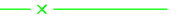


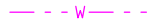







- ① Place and compact material to the dashed lines; then blade and shape to foreslope that portion above the solid line in the outer 2' and roll with loaded truck tire.
- ② Existing shoulder surface to be shaped to a uniform cross slope prior to placing granular shoulder material. Shape to ensure the thickness of the granular shoulder material is not less than the thickness of the resurfacing.




**TYPICAL SECTION  
FOR TYPE 'B'  
GRANULAR SHOULDER**  
ADJACENT TO HOT MIX ASPHALT  
RESURFACING

LOCATION			⒓	Ⓔ
ROAD IDENTIFICATION	STATION TO STATION	SIDE	Inches	Feet














### SURVEY SYMBOLS

-  SIGN Sign
-  Deciduous Tree
-  Timber
-  Wire Fence
-  TVP Television Pedestal
-  Power Pole
-  Existing Water Line
-  Existing Fiber Optics Telephone Line
-  Water Valve
-  Revetment (Rip Rap)
-  Existing Drainage
-  Existing Ditch Line







### UTILITY LEGEND







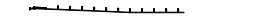
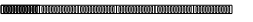
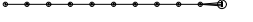
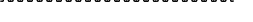


-  -- FO-1 --  
 Tammy Wheeler  
 General Manager  
 Farmers Mutual Cooperatives Telephone Company  
 101 North Main Street  
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 (641) 642-3249 Cell: (641) 895-2510  
 twheeler@netins.net
-   
 Greg Proctor  
 CEO/Manager  
 Southern Iowa Electric Cooperative, Inc.  
 800 E Franklin Street  
 Bloomfield, IA 52537  
 (641) 664-2277  
 gproctor@sie.coop
-  -- W --  
 Kelly Carol  
 West Distribution Superintendent  
 Rathbun Regional Water Association  
 16166 Hwy J-29  
 Centerville, IA 52544  
 (641) 647-2416 Cell: (641) 777-0925  
 kellycarel1962@gmail.com









### PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	 Existing Topographic Features and Labels
Blue	(1)	 Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	 Existing Utilities
SHADING		
Design Color No.		
Yellow	(4)	 Highlight for Critical Notes or Features
Red	(3)	 Delineates Restricted Areas
Lavender	(9)	 Temporary Pavement Shading
Gray, Light	(48)	 Proposed Pavement Shading
Gray, Med	(80)	 Proposed Granular Shading
Gray, Dark	(112)	 Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	 Grading Shading
Tan	(8)	 Proposed Sidewalk Shading
Blue, Light	(230)	 Proposed Sidewalk Landing Shading
Pink	(11)	 Proposed Sidewalk Ramp Shading

### PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

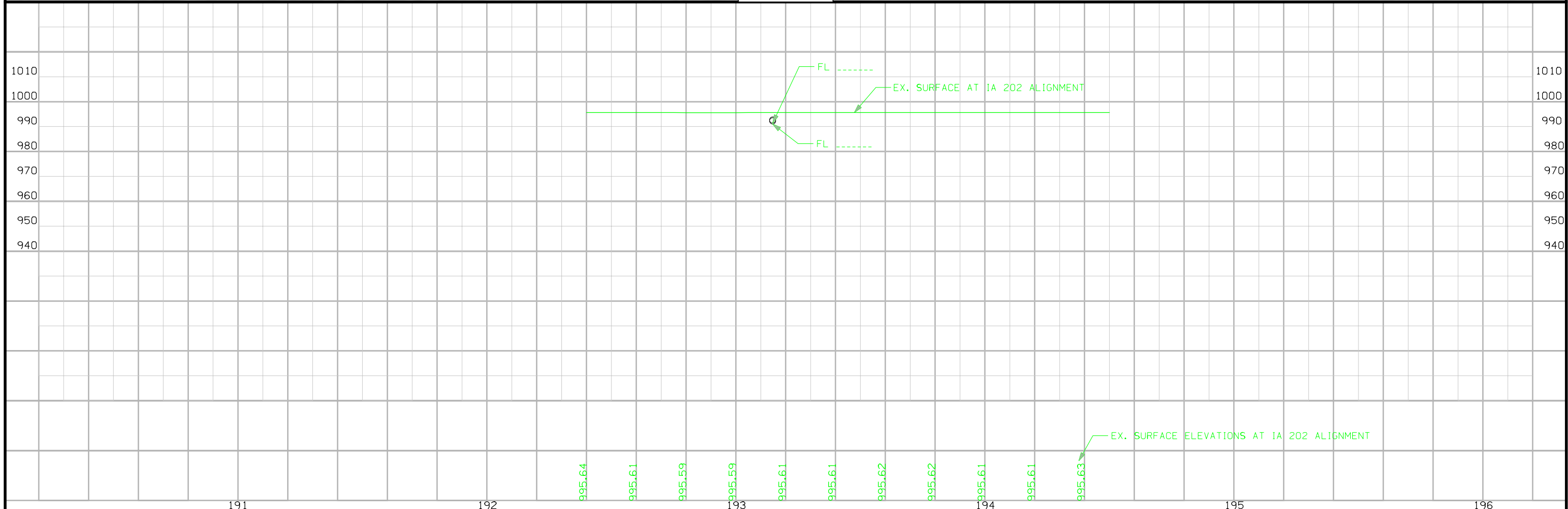
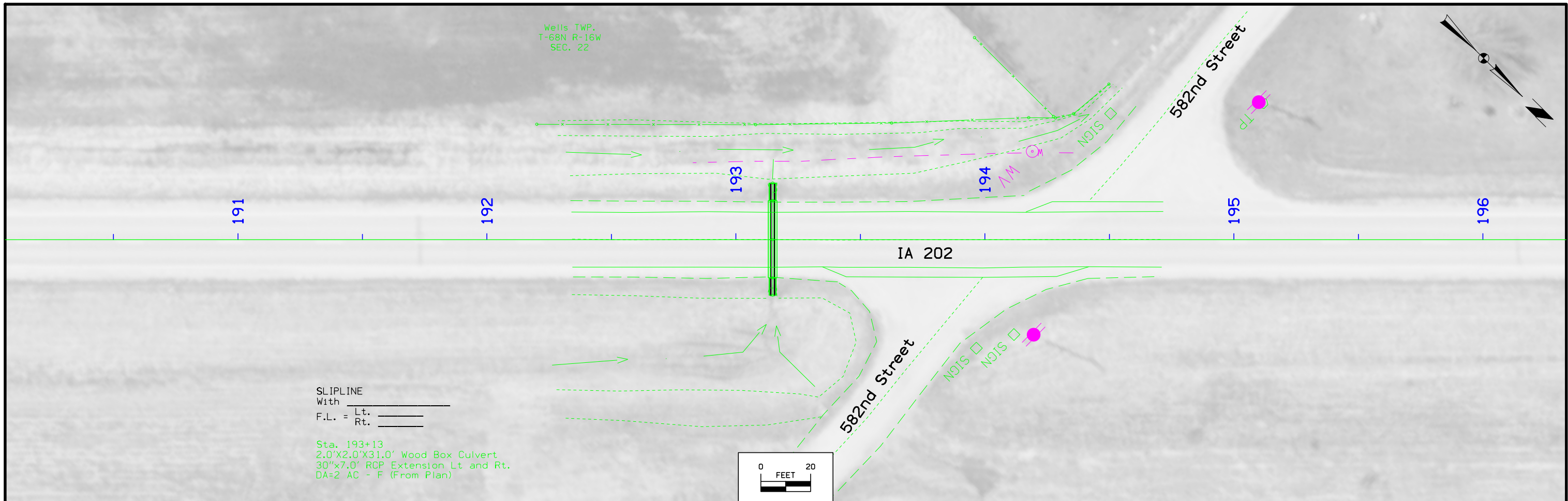
LINEWORK	Design Color No.	
Green	(2)	 Existing Ground Line Profile
Blue	(1)	 Proposed Profile and Annotation
Magenta	(5)	 Existing Utilities
Blue, Light	(230)	 Proposed Ditch Grades, Left
Black	(0)	 Proposed Ditch Grades, Median
Rust	(14)	 Proposed Ditch Grades, Right

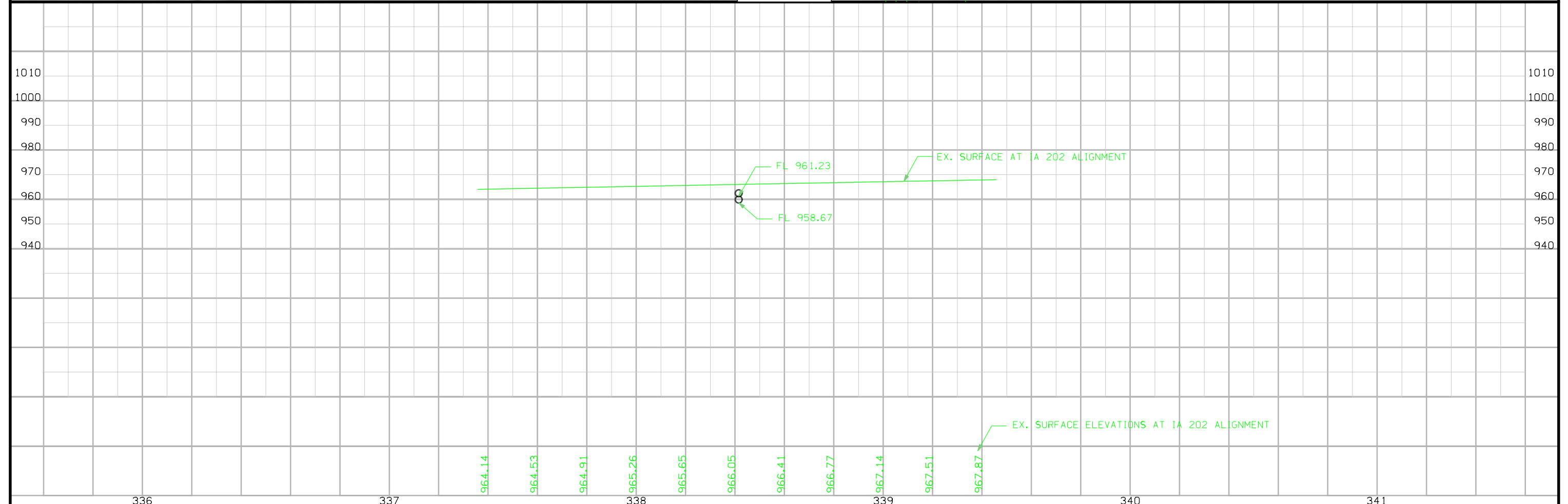
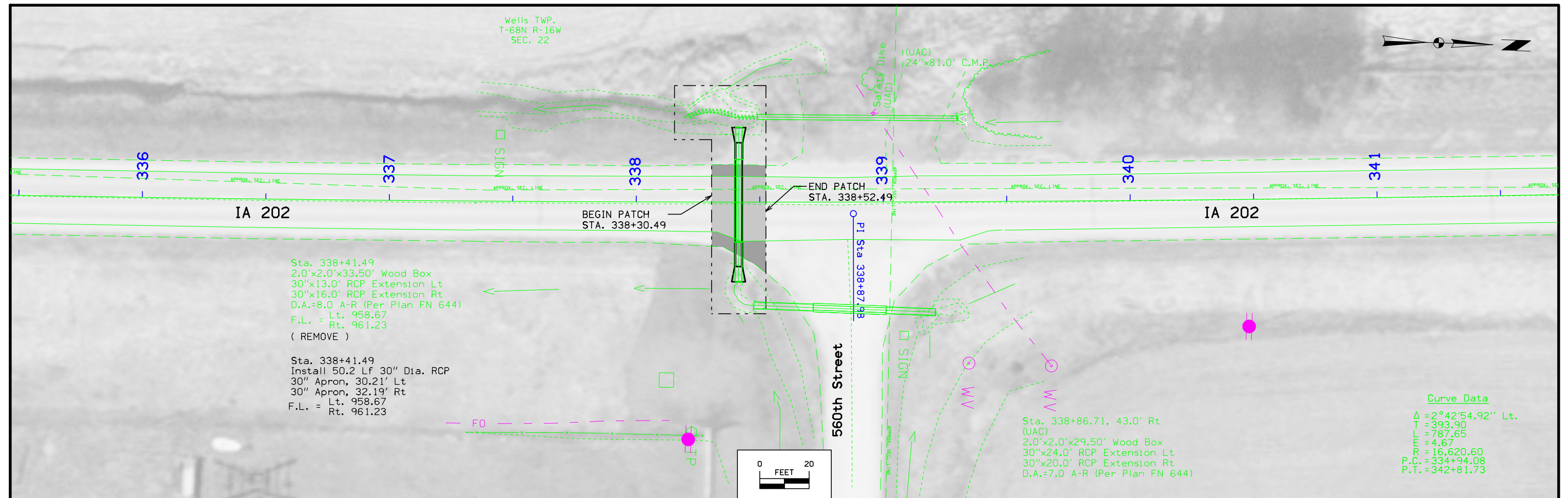
-  Reference Point
-  Station
-  Survey Line
-  Section Corner
-  Ground Line Intercept
-  Saw Cut
-  Guardrail
-  Trench Drain
-  High Tension Cable Guardrail
-  Sheet Pile
-  Pavement Removal
-  Clearing & Grubbing Area

- ### RIGHT-OF-WAY LEGEND
-  Proposed Right-of-Way
  -  Existing Right of Way
  -  Existing and Proposed Right-of-Way
  -  Easement and Existing Right-of-Way
  -  Easement (Temporary)
  -  Easement
  -  Access Control
  -  Property Line

## PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E, F, & K)





- QUANTITY = 3
- 1 **DETOUR** M4-8, 24"X12"
  - SOUTH** M3-3, 24"X12"
  - 202** M1-6, 30"X24"
  - M5-1R, 21"X15"

- QUANTITY = 4
- 5 **DETOUR** M4-8, 24"X12"
  - NORTH** M3-1, 24"X12"
  - 202** M1-6, 30"X24"
  - ←** M5-1L, 21"X15"

- QUANTITY = 3
- 2 **DETOUR** M4-8, 24"X12"
  - SOUTH** M3-3, 24"X12"
  - 202** M1-6, 30"X24"
  - M6-1R, 21"X15"

- QUANTITY = 4
- 6 **DETOUR** M4-8, 24"X12"
  - NORTH** M3-1, 24"X12"
  - 202** M1-6, 30"X24"
  - ←** M6-1L, 21"X15"

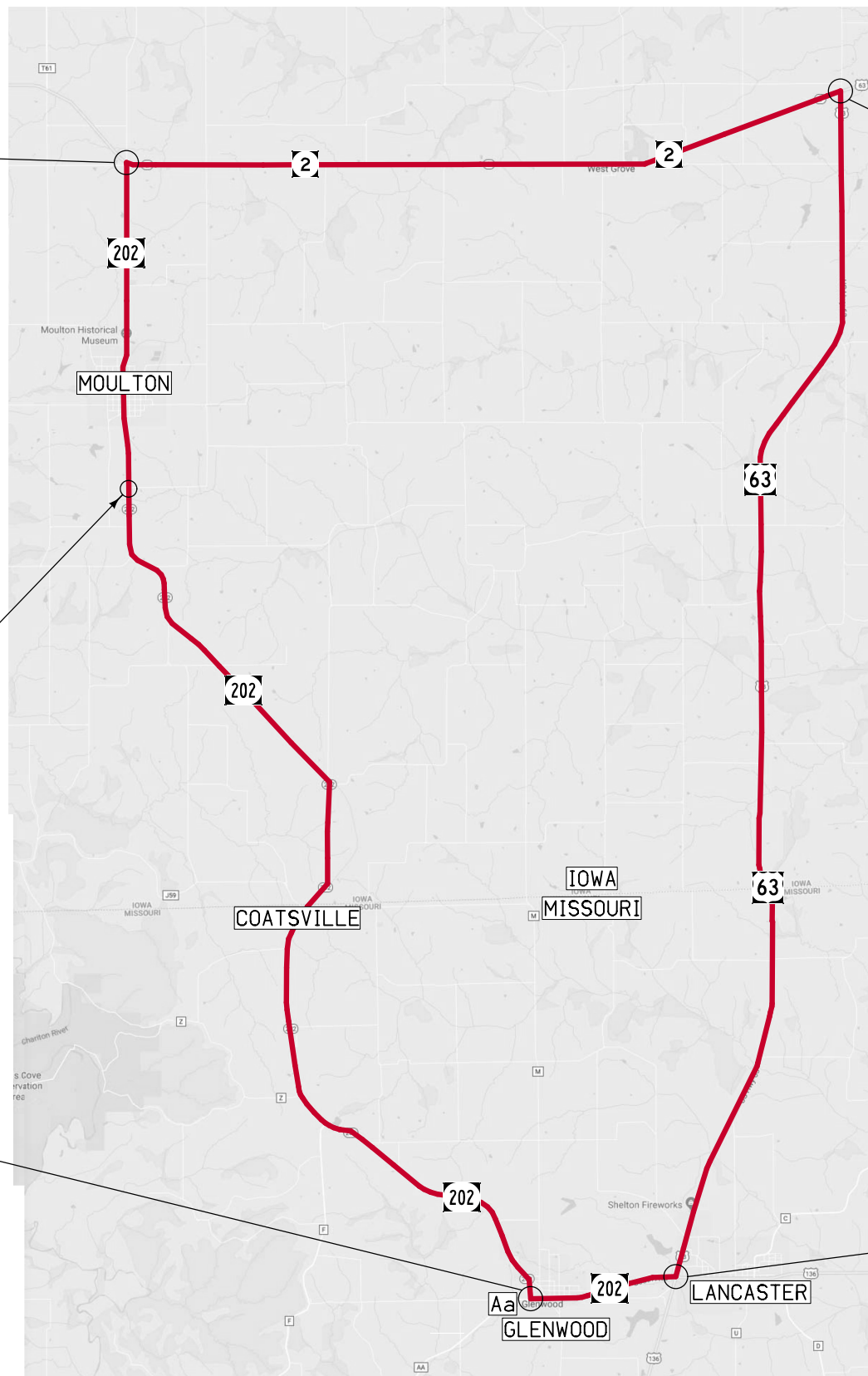
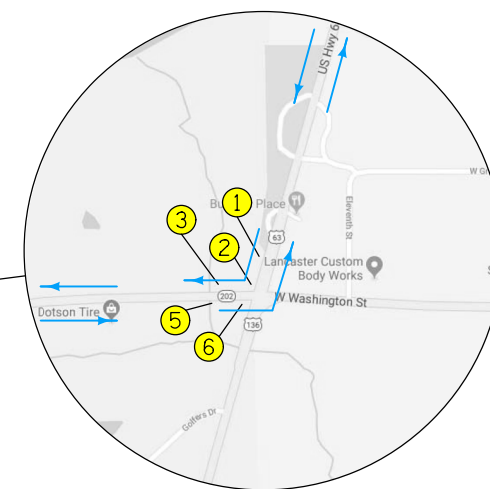
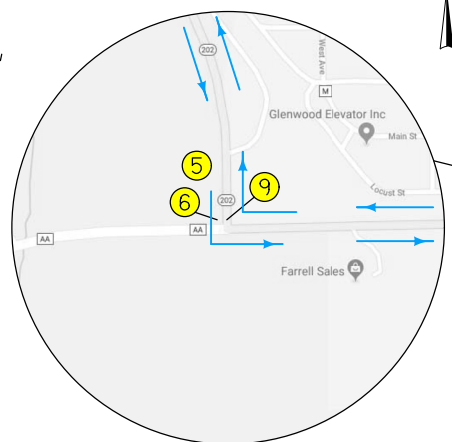
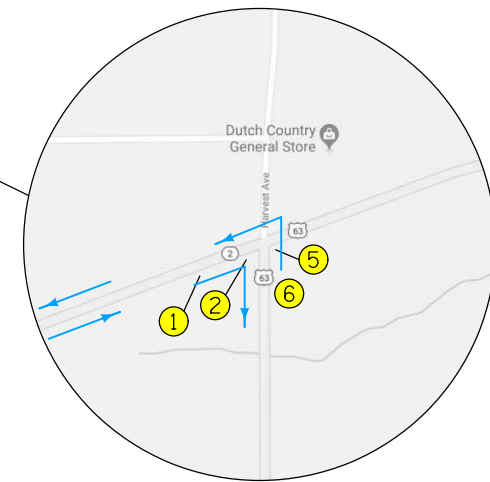
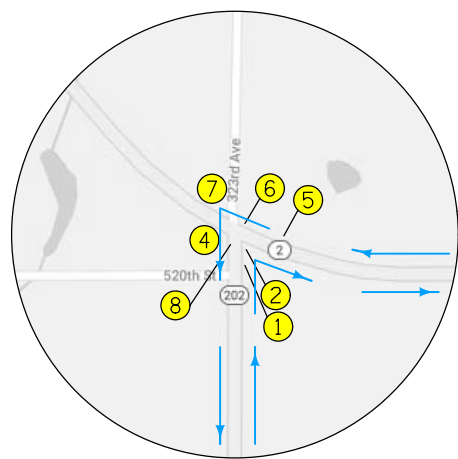
- QUANTITY = 1
- 3 **DETOUR** M4-8, 24"X12"
  - SOUTH** M3-3, 24"X12"
  - 202** M1-6, 30"X24"
  - END** M4-6, 24"X12"

- QUANTITY = 1
- 7 **DETOUR** M4-8, 24"X12"
  - NORTH** M3-1, 24"X12"
  - 202** M1-6, 30"X24"
  - END** M4-6, 24"X12"

- QUANTITY = 1
- 4 **DETOUR** M4-8, 24"X12"
  - SOUTH** M3-3, 24"X12"
  - 202** M1-6, 30"X24"
  - ↑** M6-3, 21"X15"

- QUANTITY = 1
- 8 **ROAD CLOSED** R11-3A; 60"X30"  
5 MILES AHEAD  
LOCAL TRAFFIC ONLY
- QUANTITY = 1
- 9 **ROAD CLOSED** R11-3A; 60"X30"  
11 MILES AHEAD  
LOCAL TRAFFIC ONLY

REFER TO J.3 FOR  
SIGN SPACING  
REFER TO TC-252  
FOR ADDITIONAL  
TRAFFIC CONTROL



PROJECT LOCATION

This Sheet  
For Information Only

Detour



Figure 6H-8. Road Closure with an Off-Site Detour (TA-8)

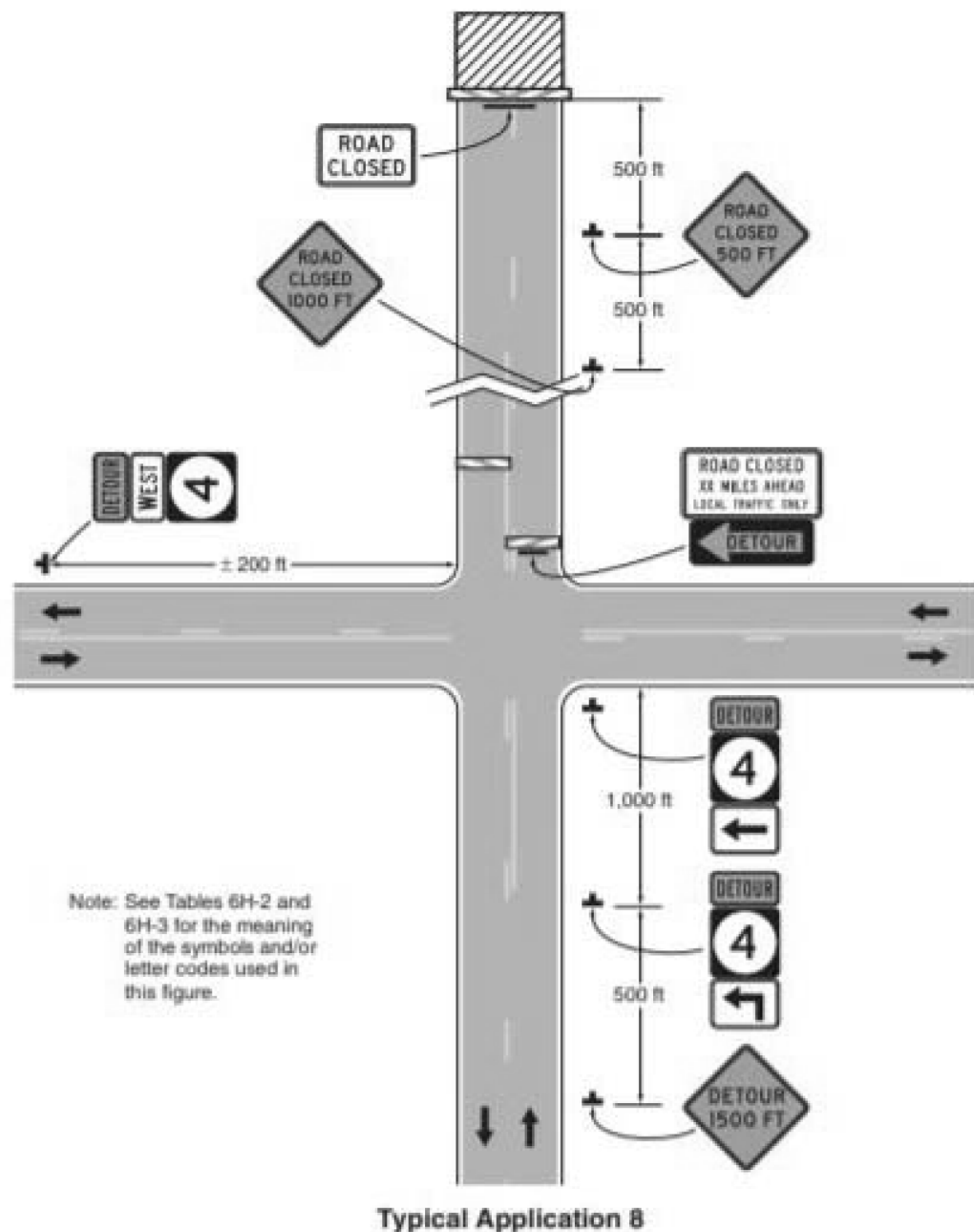
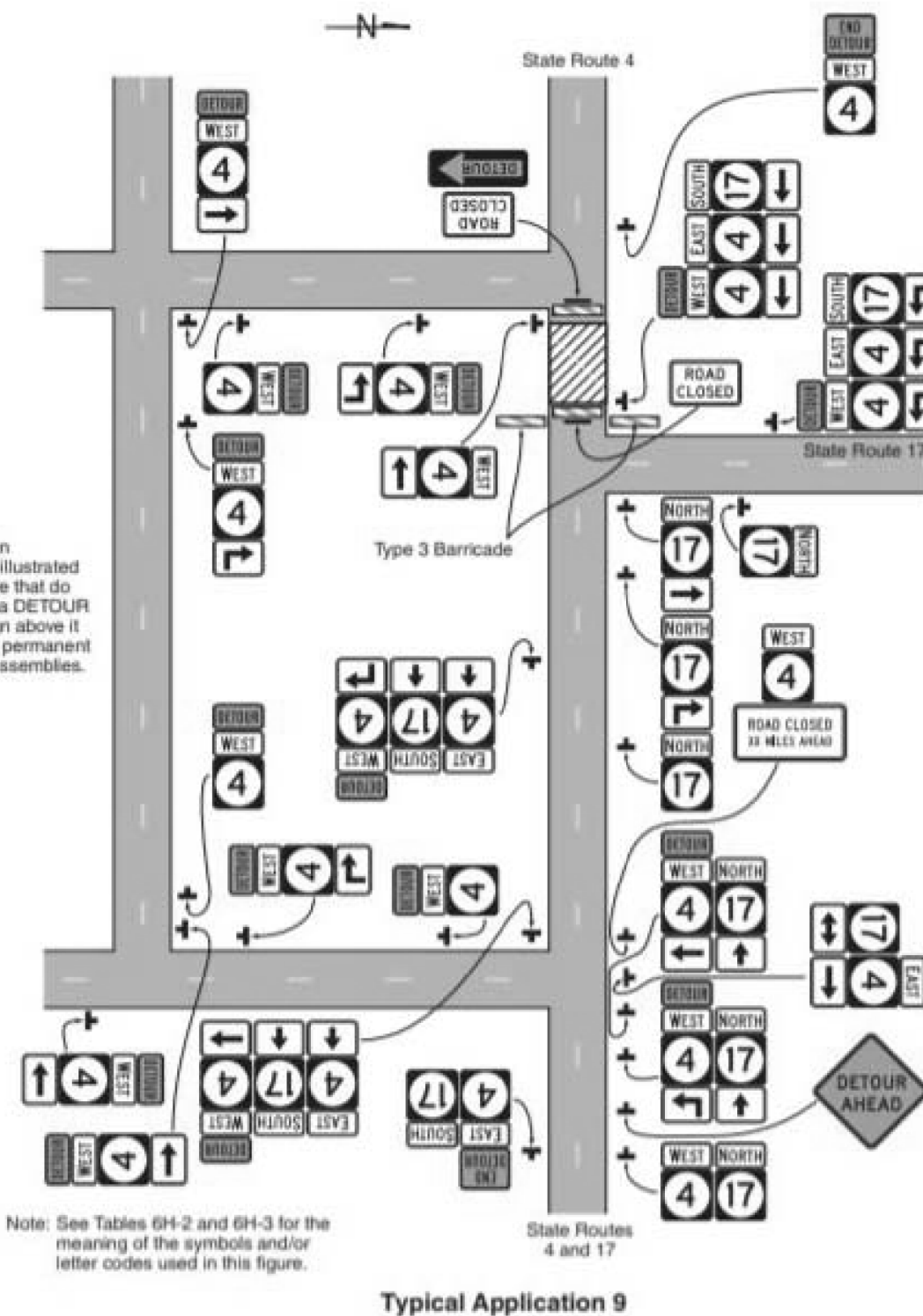
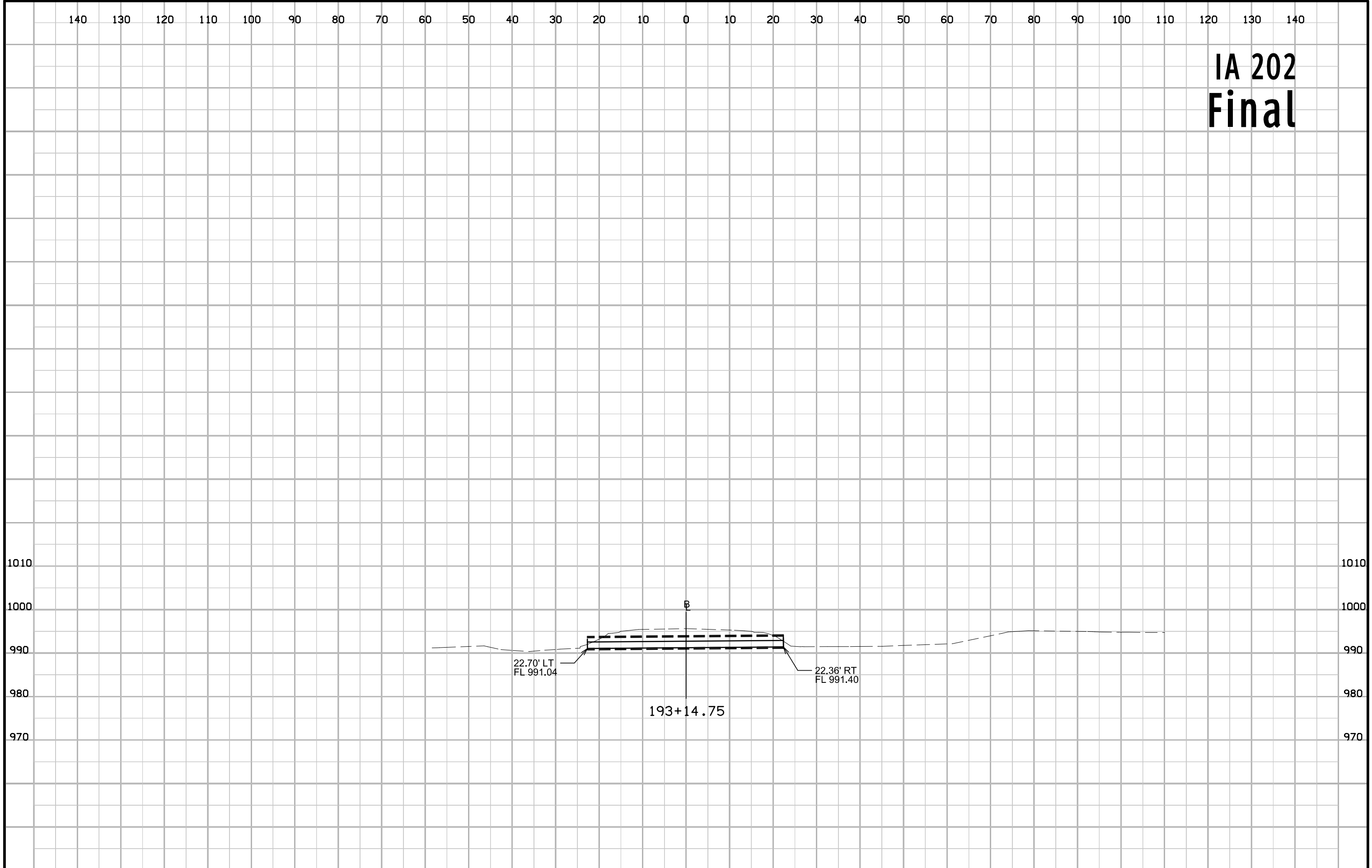


Figure 6H-9. Overlapping Routes with a Detour (TA-9)



From the Manual for Uniform Traffic Control Devices

# IA 202 Final



# IA 202 Final

