

SUPPLEMENTAL INFORMATION

Land Use or Surface Characteristics	Percent Impervious	Frequency			
		2	5	10	100
Business:					
Commercial Areas	95	0.87	0.87	0.88	0.89
Neighborhood Areas	70	0.60	0.65	0.70	0.80
Residential:					
Single-Family		0.40	0.45	0.50	0.60
Multi-Unit (detached)	50	0.45	0.50	0.60	0.70
Multi-Unit (attached)	70	0.60	0.65	0.70	0.80
1/2 Acre Lot or Larger		0.30	0.35	0.40	0.60
Apartments	70	0.65	0.70	0.70	0.80
Industrial:					
Light Areas	80	0.71	0.72	0.76	0.82
Heavy Areas	90	0.80	0.80	0.85	0.90
Parks, Cemeteries:	7	0.10	0.10	0.35	0.60
Playgrounds:	13	0.15	0.25	0.35	0.65
Schools:	50	0.45	0.50	0.60	0.70
Railroad Yard Areas:	40	0.40	0.45	0.50	0.60
Undeveloped Areas:					
Historic Flow Analysis,					
Greenbelt, Agricultural:	2		See Lawns		
Offsite Flow Analysis:	45	0.43	0.47	0.55	0.65
(when landuse not defined)					
Streets:					
Paved	100	0.87	0.88	0.90	0.93
Gravel	13	0.15	0.25	0.35	0.65
Drive and Walks,	96	0.87	0.87	0.88	0.89
Roofs:	90	0.80	0.85	0.90	0.90
Lawns, Sandy Soil:	0	0.00	0.01	0.05	0.20
Lawns, Clayey Soil:	0	0.05	0.10	0.20	0.40

Note: These Rational Formula coefficients may not be valid for large basins.

Source: Urban Storm Drainage Criteria Manual (UDFCD, 2001).

TABLE RO-5 (Continued)—Runoff Coefficients, *C*

Percentage Imperviousness	Type A NRCS Hydrologic Soils Group					
	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
0%	0.00	0.00	0.05	0.12	0.16	0.20
5%	0.00	0.02	0.10	0.16	0.20	0.24
10%	0.00	0.06	0.14	0.20	0.24	0.28
15%	0.02	0.10	0.17	0.23	0.27	0.30
20%	0.06	0.13	0.20	0.26	0.30	0.33
25%	0.09	0.16	0.23	0.29	0.32	0.35
30%	0.13	0.19	0.25	0.31	0.34	0.37
35%	0.16	0.22	0.28	0.33	0.36	0.39
40%	0.19	0.25	0.30	0.35	0.38	0.41
45%	0.22	0.27	0.33	0.37	0.40	0.43
50%	0.25	0.30	0.35	0.40	0.42	0.45
55%	0.29	0.33	0.38	0.42	0.45	0.47
60%	0.33	0.37	0.41	0.45	0.47	0.50
65%	0.37	0.41	0.45	0.49	0.51	0.53
70%	0.42	0.45	0.49	0.53	0.54	0.56
75%	0.47	0.50	0.54	0.57	0.59	0.61
80%	0.54	0.56	0.60	0.63	0.64	0.66
85%	0.61	0.63	0.66	0.69	0.70	0.72
90%	0.69	0.71	0.73	0.76	0.77	0.79
95%	0.78	0.80	0.82	0.84	0.85	0.86
100%	0.89	0.90	0.92	0.94	0.95	0.96

Table RO-5— Runoff Coefficients, *C*

Percentage Imperviousness	Type C and D NRCS Hydrologic Soil Groups					
	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
0%	0.04	0.15	0.25	0.37	0.44	0.50
5%	0.08	0.18	0.28	0.39	0.46	0.52
10%	0.11	0.21	0.30	0.41	0.47	0.53
15%	0.14	0.24	0.32	0.43	0.49	0.54
20%	0.17	0.26	0.34	0.44	0.50	0.55
25%	0.20	0.28	0.36	0.46	0.51	0.56
30%	0.22	0.30	0.38	0.47	0.52	0.57
35%	0.25	0.33	0.40	0.48	0.53	0.57
40%	0.28	0.35	0.42	0.50	0.54	0.58
45%	0.31	0.37	0.44	0.51	0.55	0.59
50%	0.34	0.40	0.46	0.53	0.57	0.60
55%	0.37	0.43	0.48	0.55	0.58	0.62
60%	0.41	0.46	0.51	0.57	0.60	0.63
65%	0.45	0.49	0.54	0.59	0.62	0.65
70%	0.49	0.53	0.57	0.62	0.65	0.68
75%	0.54	0.58	0.62	0.66	0.68	0.71
80%	0.60	0.63	0.66	0.70	0.72	0.74
85%	0.66	0.68	0.71	0.75	0.77	0.79
90%	0.73	0.75	0.77	0.80	0.82	0.83
95%	0.80	0.82	0.84	0.87	0.88	0.89
100%	0.89	0.90	0.92	0.94	0.95	0.96
TYPE B NRCS HYDROLOGIC SOILS GROUP						
0%	0.02	0.08	0.15	0.25	0.30	0.35
5%	0.04	0.10	0.19	0.28	0.33	0.38
10%	0.06	0.14	0.22	0.31	0.36	0.40
15%	0.08	0.17	0.25	0.33	0.38	0.42
20%	0.12	0.20	0.27	0.35	0.40	0.44
25%	0.15	0.22	0.30	0.37	0.41	0.46
30%	0.18	0.25	0.32	0.39	0.43	0.47
35%	0.20	0.27	0.34	0.41	0.44	0.48
40%	0.23	0.30	0.36	0.42	0.46	0.50
45%	0.26	0.32	0.38	0.44	0.48	0.51
50%	0.29	0.35	0.40	0.46	0.49	0.52
55%	0.33	0.38	0.43	0.48	0.51	0.54
60%	0.37	0.41	0.46	0.51	0.54	0.56
65%	0.41	0.45	0.49	0.54	0.57	0.59
70%	0.45	0.49	0.53	0.58	0.60	0.62
75%	0.51	0.54	0.58	0.62	0.64	0.66
80%	0.57	0.59	0.63	0.66	0.68	0.70
85%	0.63	0.66	0.69	0.72	0.73	0.75
90%	0.71	0.73	0.75	0.78	0.80	0.81
95%	0.79	0.81	0.83	0.85	0.87	0.88
100%	0.89	0.90	0.92	0.94	0.95	0.96

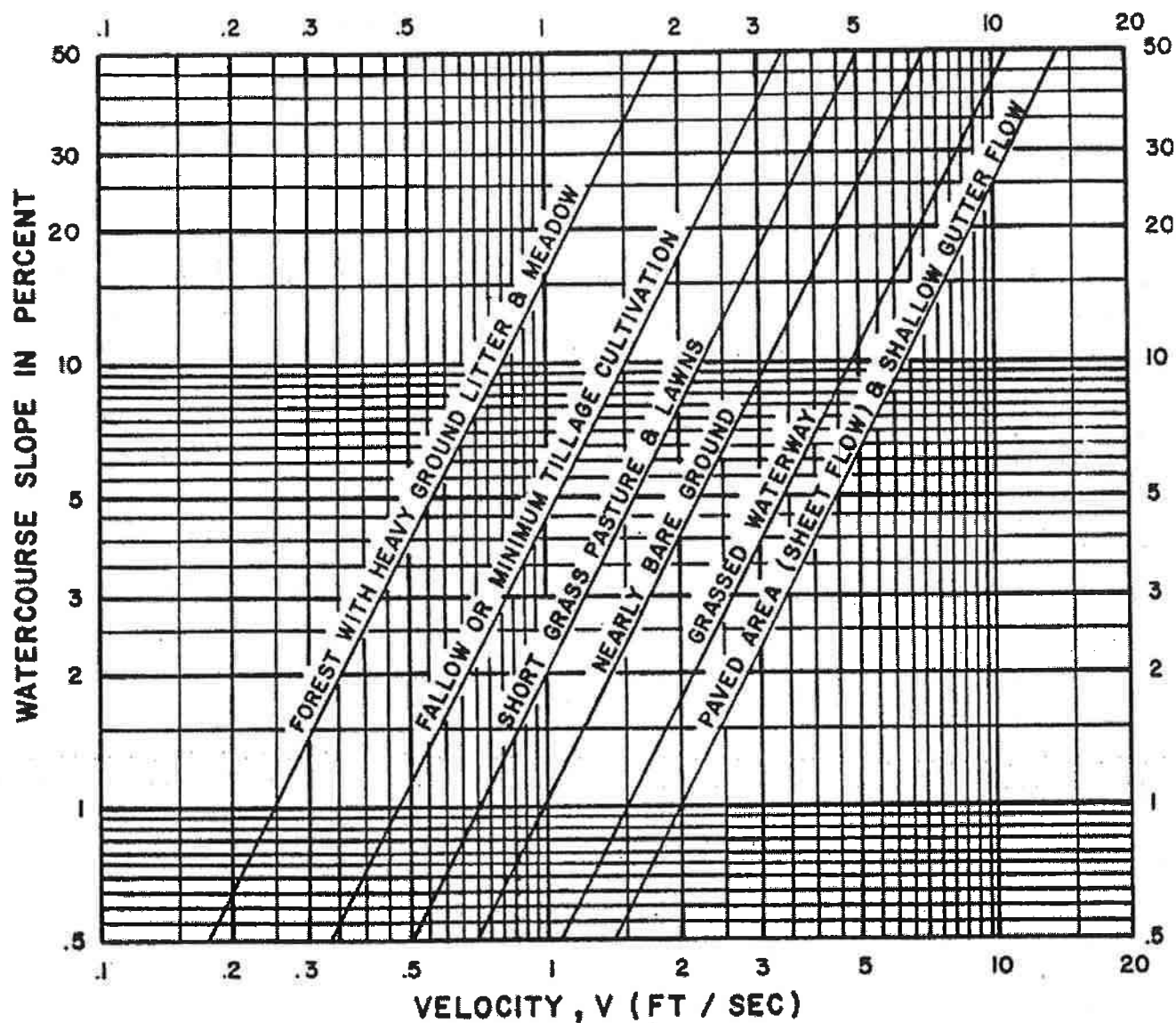


Figure 7.2 Velocities for Estimation of Time of Concentration

Depth-Duration-Frequency and Intensity-Duration-Frequency Tables for Colorado Hydrologic Zones 1 through 4

Blue cells are inputs.

Project: 13-034.01 US 550 South Connection SEIS Alternative Analysis

Where is the Watershed Located?

- ☐ Located within UDFCD Boundary
☒ Located outside of UDFCD Boundary

Hydrologic Zone (1, 2, 3, or 4) = (see map)
 Elevation at Center of Watershed = ft
 Watershed Area (Optional) = sq. mi.

(Optional) Select a location within the UDFCD boundary:

1. Rainfall Depth-Duration-Frequency Table

If within the UDFCD Boundary, Enter the 1-hour and 6-hour rainfall depths from the USDCM Volume 1.

Otherwise, Enter the 6-hour and 24-hour rainfall depths from the NOAA Atlas 2 Volume III.

Return Period	Rainfall Depth in Inches at Time Duration								
	5-min	10-min	15-min	30-min	1-hr	2-hr	3-hr	6-hr	24-hr
2-yr	0.16	0.26	0.33	0.38	0.58	0.72	0.82	1.00	1.60
5-yr	0.25	0.39	0.49	0.57	0.87	1.01	1.11	1.30	2.00
10-yr	0.30	0.48	0.60	0.69	1.06	1.24	1.37	1.60	2.25
25-yr	0.37	0.59	0.74	0.85	1.30	1.50	1.64	1.90	2.80
50-yr	0.43	0.69	0.86	1.00	1.52	1.75	1.91	2.20	3.00
100-yr	0.49	0.78	0.99	1.14	1.74	1.96	2.11	2.40	3.50
500-yr	0.62	0.99	1.25	1.44	2.20	2.47	2.66	3.01	4.19

Note: Refer to Figures 4-1 through 4-12 of USDCM Volume 1 for 1-hr and 6-hr rainfall depths.

Refer to NOAA Atlas 2 Volume III isopluvial maps for 6-hr and 24-hr rainfall depths.

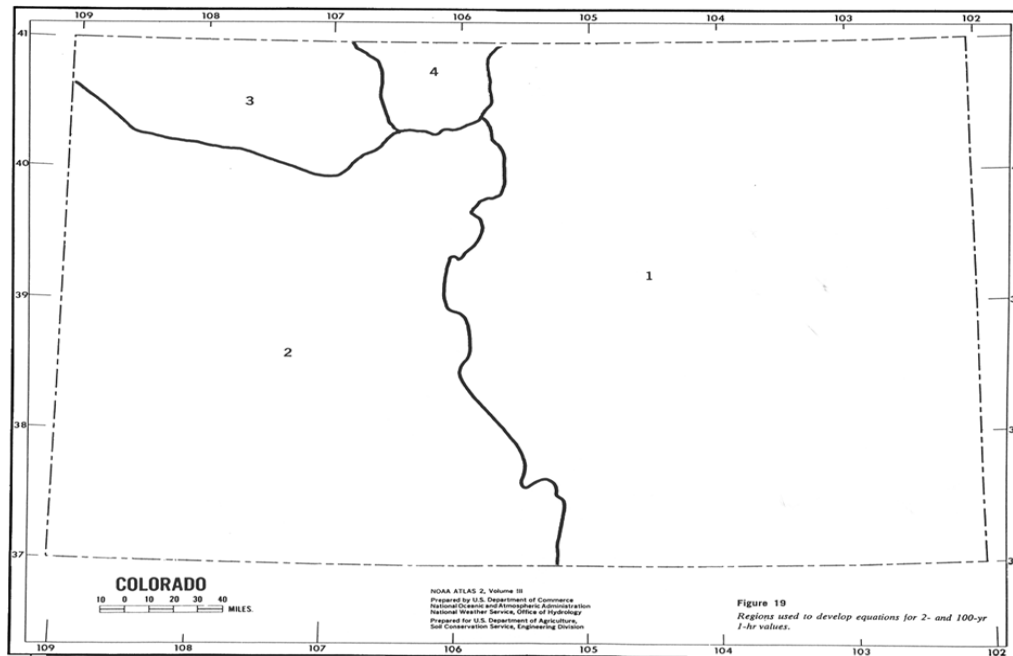
Rainfall depths for durations less than 1-hr are calculated using Equation 4-4 in USDCM Volume 1.

2. Rainfall Intensity-Duration-Frequency Table

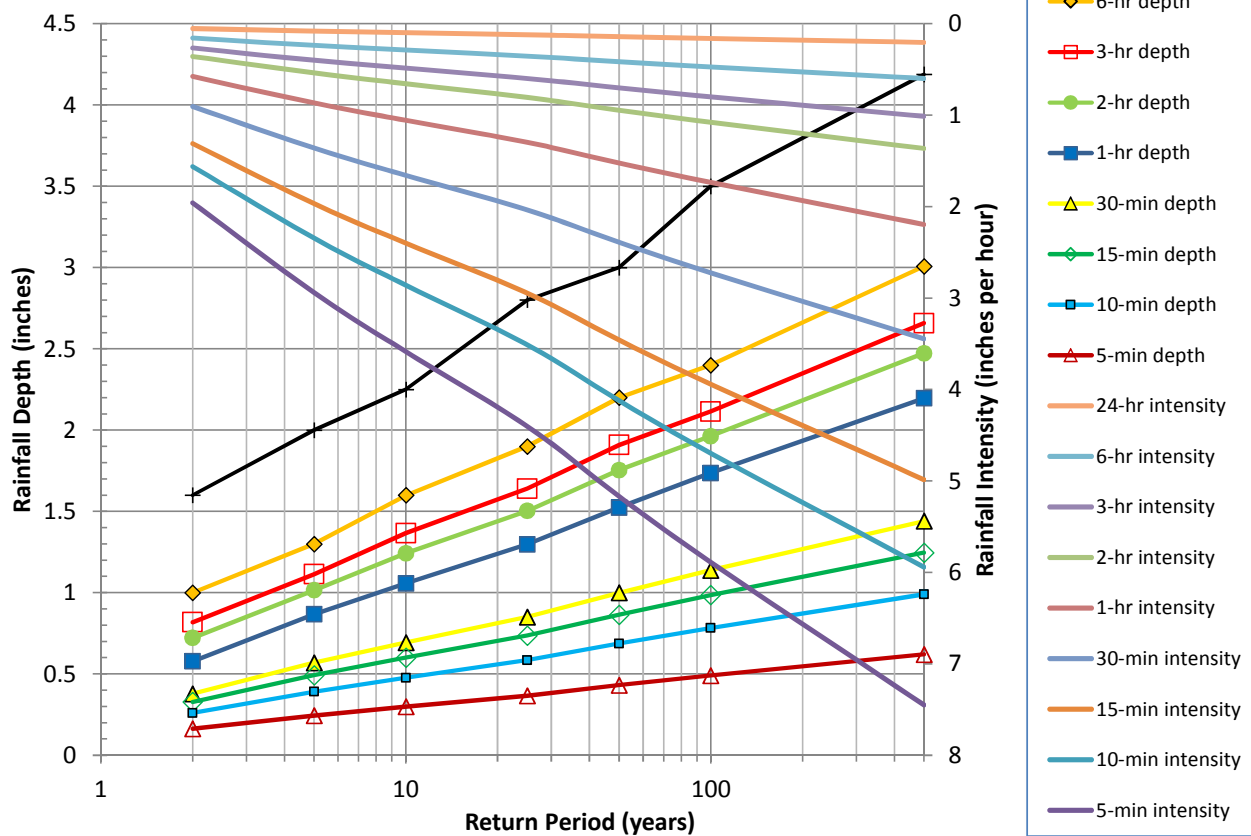
Return Period	Rainfall Intensity in Inches Per Hour at Time Duration								
	5-min	10-min	15-min	30-min	1-hr	2-hr	3-hr	6-hr	24-hr
2-yr	1.96	1.56	1.31	0.91	0.58	0.36	0.27	0.16	0.05
5-yr	2.94	2.35	1.97	1.36	0.87	0.54	0.40	0.24	0.08
10-yr	3.59	2.86	2.40	1.66	1.06	0.66	0.49	0.29	0.10
25-yr	4.40	3.51	2.95	2.04	1.30	0.81	0.60	0.35	0.12
50-yr	5.17	4.12	3.46	2.39	1.52	0.95	0.70	0.42	0.14
100-yr	5.89	4.70	3.94	2.72	1.74	1.08	0.80	0.47	0.16
500-yr	7.45	5.94	4.99	3.45	2.20	1.36	1.01	0.60	0.20

Note: Intensity approximated using 1-hr rainfall depths and Equation 4-3 in USDCM Volume 1.

Depth-Duration-Frequency and Intensity-Duration-Frequency Tables for Colorado Hydrologic Zones 1 through 4



Design Rainfall IDF & DDF Chart





NOAA Atlas 14, Volume 8, Version 2
Location name: Durango, Colorado, USA*
Latitude: 37.2222°, Longitude: -107.8442°
Elevation: 6684.85 ft**
 * source: ESRI Maps
 ** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffrey Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

[PF_tabular](#) | [PF_graphical](#) | [Maps & aeriels](#)

For rational
method
calculations

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches/hour) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	2.28 (1.85-2.90)	2.99 (2.42-3.80)	4.32 (3.49-5.51)	5.59 (4.50-7.15)	7.58 (6.05-10.3)	9.32 (7.21-12.6)	11.2 (8.40-15.4)	13.3 (9.60-18.6)	16.4 (11.4-23.3)	18.9 (12.7-26.8)
10-min	1.67 (1.36-2.12)	2.19 (1.78-2.78)	3.16 (2.56-4.04)	4.09 (3.29-5.24)	5.56 (4.43-7.51)	6.82 (5.28-9.28)	8.21 (6.15-11.3)	9.76 (7.03-13.6)	12.0 (8.32-17.0)	13.8 (9.30-19.6)
15-min	1.36 (1.10-1.73)	1.78 (1.44-2.26)	2.57 (2.08-3.28)	3.33 (2.68-4.26)	4.52 (3.60-6.11)	5.55 (4.29-7.50)	6.68 (5.00-9.18)	7.93 (5.72-11.1)	9.74 (6.77-13.9)	11.2 (7.56-15.9)
30-min	0.780 (0.634-0.992)	1.04 (0.848-1.33)	1.53 (1.24-1.95)	1.98 (1.60-2.54)	2.68 (2.13-3.61)	3.28 (2.53-4.42)	3.92 (2.93-5.38)	4.63 (3.33-6.46)	5.65 (3.92-8.02)	6.48 (4.36-9.19)
60-min	0.447 (0.364-0.569)	0.601 (0.488-0.765)	0.876 (0.709-1.12)	1.13 (0.908-1.44)	1.51 (1.19-2.02)	1.83 (1.41-2.46)	2.17 (1.62-2.97)	2.55 (1.83-3.55)	3.08 (2.13-4.36)	3.51 (2.36-4.98)
2-hr	0.252 (0.208-0.316)	0.340 (0.280-0.426)	0.494 (0.405-0.620)	0.632 (0.516-0.797)	0.839 (0.671-1.10)	1.01 (0.788-1.34)	1.19 (0.902-1.60)	1.39 (1.01-1.90)	1.67 (1.17-2.32)	1.89 (1.29-2.64)
3-hr	0.193 (0.160-0.240)	0.250 (0.207-0.311)	0.351 (0.290-0.438)	0.443 (0.364-0.553)	0.580 (0.468-0.756)	0.695 (0.546-0.909)	0.817 (0.623-1.09)	0.949 (0.697-1.29)	1.14 (0.806-1.57)	1.29 (0.887-1.78)
6-hr	0.132 (0.111-0.162)	0.159 (0.133-0.194)	0.206 (0.173-0.253)	0.250 (0.208-0.307)	0.316 (0.258-0.404)	0.371 (0.297-0.478)	0.431 (0.334-0.565)	0.496 (0.371-0.662)	0.589 (0.425-0.801)	0.664 (0.466-0.905)
12-hr	0.092 (0.079-0.111)	0.105 (0.089-0.126)	0.127 (0.108-0.153)	0.148 (0.124-0.179)	0.178 (0.148-0.224)	0.204 (0.166-0.258)	0.232 (0.183-0.299)	0.263 (0.199-0.344)	0.306 (0.224-0.408)	0.340 (0.243-0.456)
24-hr	0.060 (0.052-0.071)	0.068 (0.058-0.080)	0.081 (0.069-0.096)	0.092 (0.078-0.109)	0.107 (0.090-0.131)	0.120 (0.098-0.148)	0.133 (0.106-0.168)	0.147 (0.113-0.189)	0.167 (0.124-0.218)	0.182 (0.132-0.240)
2-day	0.036 (0.032-0.042)	0.041 (0.036-0.048)	0.050 (0.043-0.058)	0.056 (0.049-0.066)	0.066 (0.055-0.078)	0.073 (0.060-0.088)	0.080 (0.064-0.098)	0.087 (0.068-0.109)	0.096 (0.072-0.123)	0.103 (0.076-0.134)
3-day	0.027 (0.024-0.031)	0.031 (0.027-0.036)	0.037 (0.032-0.042)	0.042 (0.036-0.048)	0.048 (0.041-0.057)	0.054 (0.045-0.064)	0.059 (0.048-0.071)	0.064 (0.050-0.079)	0.071 (0.054-0.090)	0.076 (0.056-0.097)
4-day	0.022 (0.020-0.025)	0.025 (0.022-0.029)	0.030 (0.026-0.034)	0.034 (0.030-0.039)	0.039 (0.033-0.046)	0.043 (0.036-0.051)	0.047 (0.039-0.057)	0.052 (0.041-0.063)	0.057 (0.044-0.072)	0.061 (0.046-0.078)
7-day	0.015 (0.013-0.017)	0.017 (0.015-0.019)	0.020 (0.018-0.023)	0.023 (0.020-0.026)	0.026 (0.023-0.030)	0.029 (0.025-0.034)	0.032 (0.026-0.038)	0.035 (0.028-0.042)	0.038 (0.030-0.047)	0.041 (0.031-0.051)
10-day	0.012 (0.011-0.013)	0.013 (0.012-0.015)	0.016 (0.014-0.018)	0.018 (0.016-0.020)	0.021 (0.018-0.024)	0.023 (0.019-0.026)	0.025 (0.021-0.029)	0.027 (0.022-0.032)	0.030 (0.023-0.036)	0.032 (0.024-0.039)
20-day	0.008 (0.007-0.009)	0.009 (0.008-0.010)	0.010 (0.009-0.011)	0.011 (0.010-0.013)	0.013 (0.011-0.015)	0.014 (0.012-0.016)	0.015 (0.013-0.018)	0.017 (0.014-0.020)	0.018 (0.015-0.022)	0.019 (0.015-0.024)
30-day	0.006 (0.006-0.007)	0.007 (0.006-0.008)	0.008 (0.007-0.009)	0.009 (0.008-0.010)	0.010 (0.009-0.011)	0.011 (0.010-0.013)	0.012 (0.010-0.014)	0.013 (0.011-0.015)	0.014 (0.011-0.017)	0.015 (0.012-0.018)
45-day	0.005 (0.005-0.005)	0.006 (0.005-0.006)	0.007 (0.006-0.007)	0.007 (0.007-0.008)	0.008 (0.007-0.009)	0.009 (0.008-0.010)	0.010 (0.008-0.011)	0.011 (0.009-0.012)	0.011 (0.009-0.014)	0.012 (0.010-0.015)
60-day	0.004 (0.004-0.005)	0.005 (0.005-0.005)	0.006 (0.005-0.006)	0.006 (0.006-0.007)	0.007 (0.007-0.008)	0.008 (0.007-0.009)	0.009 (0.007-0.010)	0.009 (0.008-0.011)	0.010 (0.008-0.012)	0.011 (0.008-0.013)

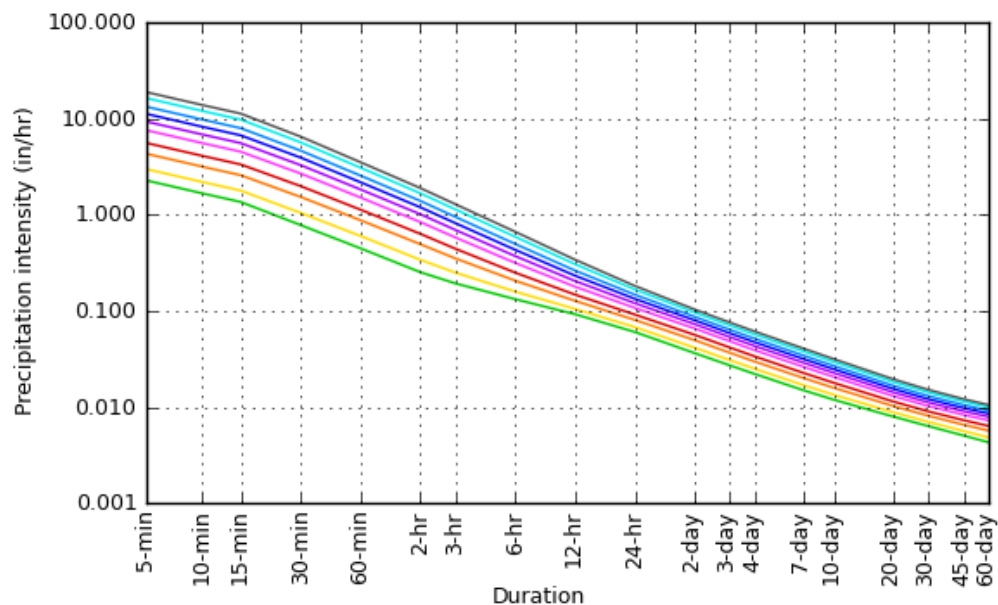
¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).
 Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.
 Please refer to NOAA Atlas 14 document for more information.

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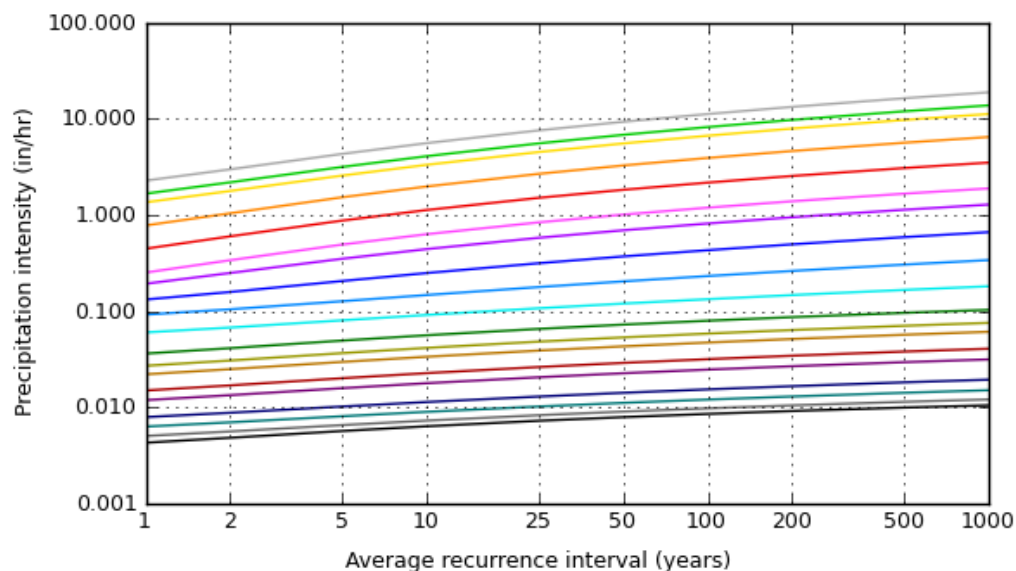
PF graphical

PDS-based intensity-duration-frequency (IDF) curves

Latitude: 37.2222°, Longitude: -107.8442°



Average recurrence interval (years)
1
2
5
10
25
50
100
200
500
1000



Duration
5-min
10-min
15-min
30-min
60-min
2-hr
3-hr
6-hr
12-hr
24-hr
2-day
3-day
4-day
7-day
10-day
20-day
30-day
45-day
60-day

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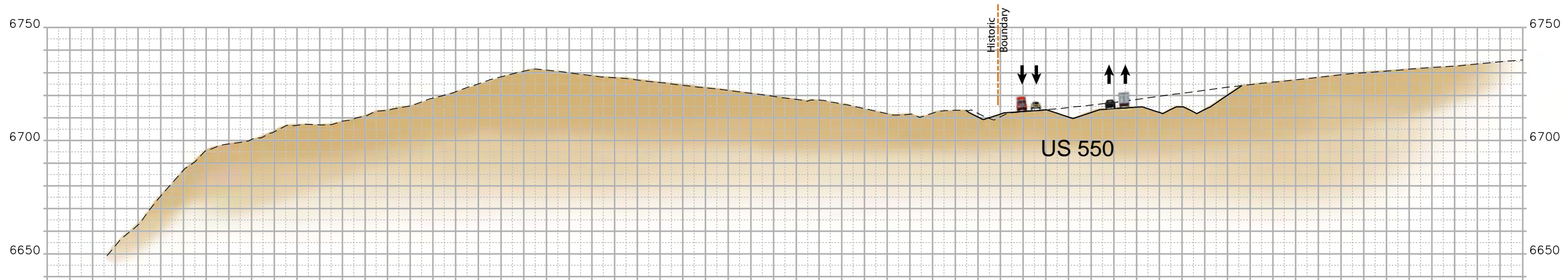
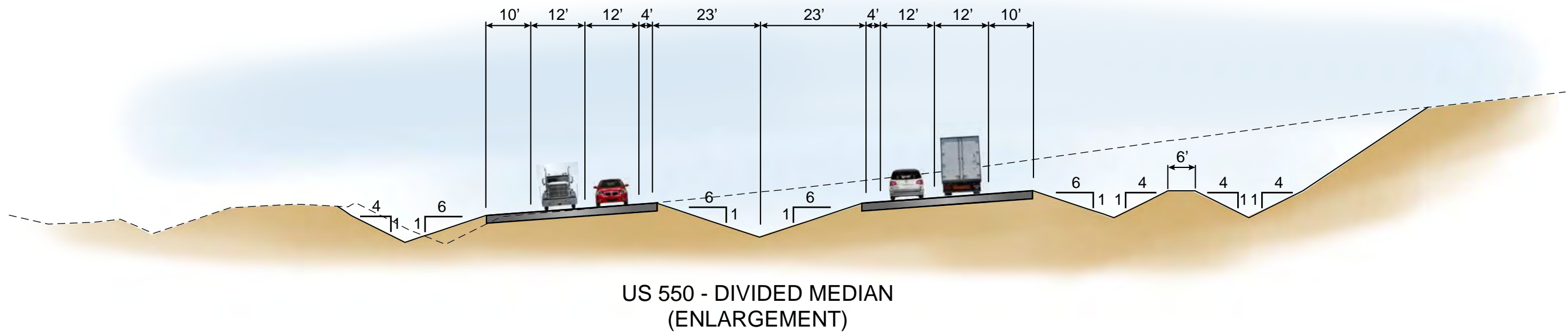
Maps & aerals

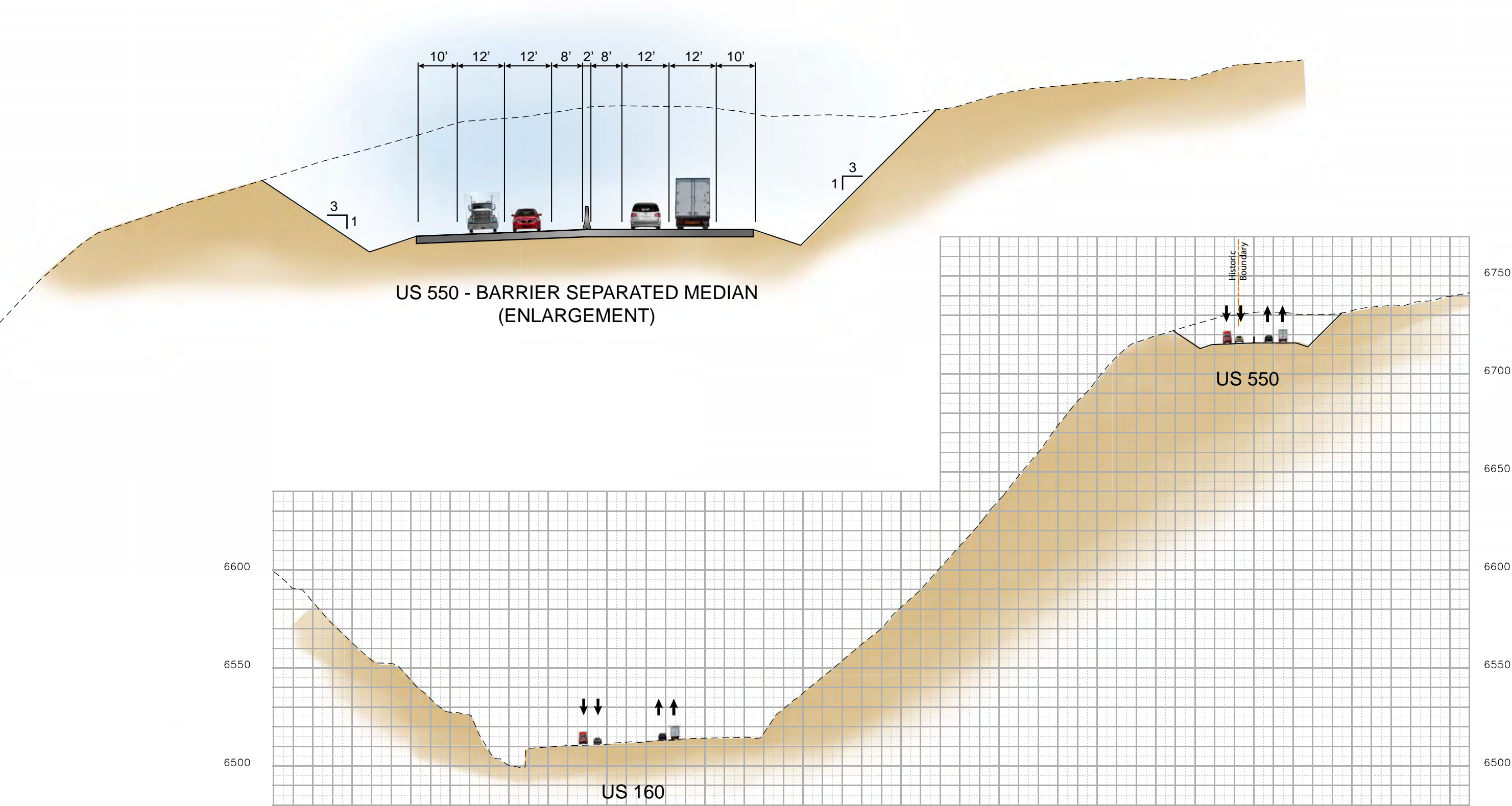
Small scale terrain

APPENDIX B

Hydraulics

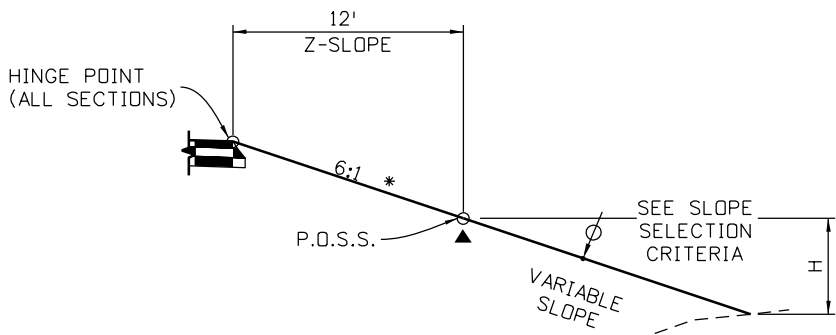
- Typical Roadway Sections
- Drainage Plan Sheets
- Inlet Calculations
- Supplemental Information





TYPICAL SECTION US 550 - BARRIER SEPARATED MEDIAN

USED FOR CONNECTION SEGMENT ONLY



FILL/CUT SLOPE DETAIL
(SEE CROSS SECTIONS FOR FILL/CUT SLOPE DITCH TYPE)

SLOPE SELECTION
(TYPICAL FOR ALL US 550)

HEIGHT OF CUT

C = 0 - 20'
C > 20'

SLOPE

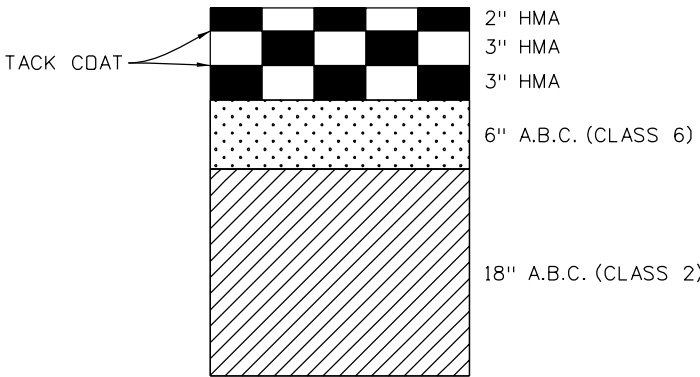
3:1
SEE CUT WALL TYPICAL

HEIGHT OF FILL

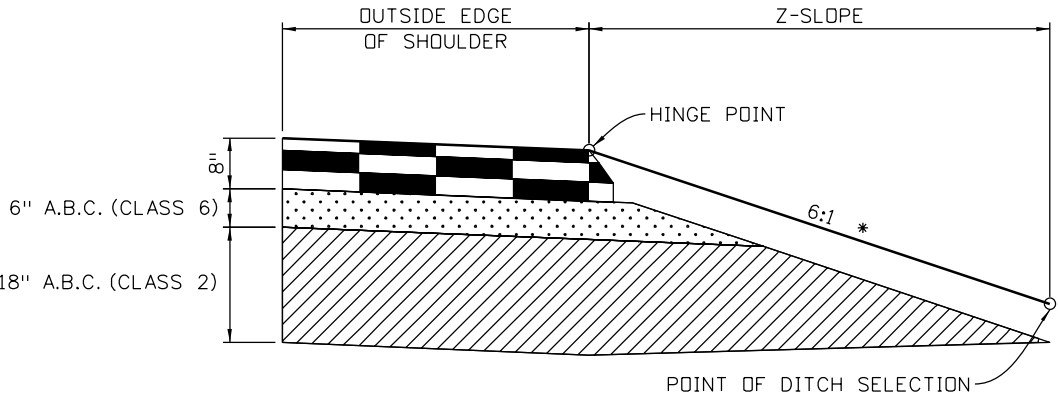
H = 0 - 2'
2' - 14.5'
14.5' - 20'
20' > H

SLOPE

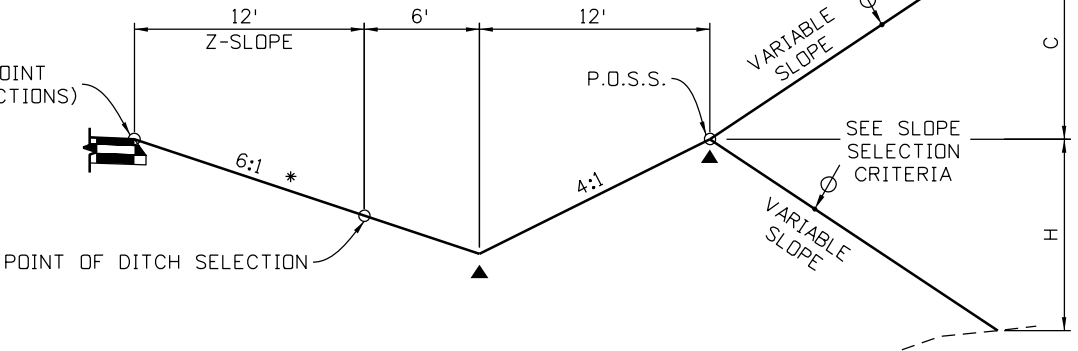
Z-SLOPE THEN, 6:1
Z-SLOPE THEN, 4:1
Z-SLOPE THEN, 3:1
SEE FILL WALL TYPICAL



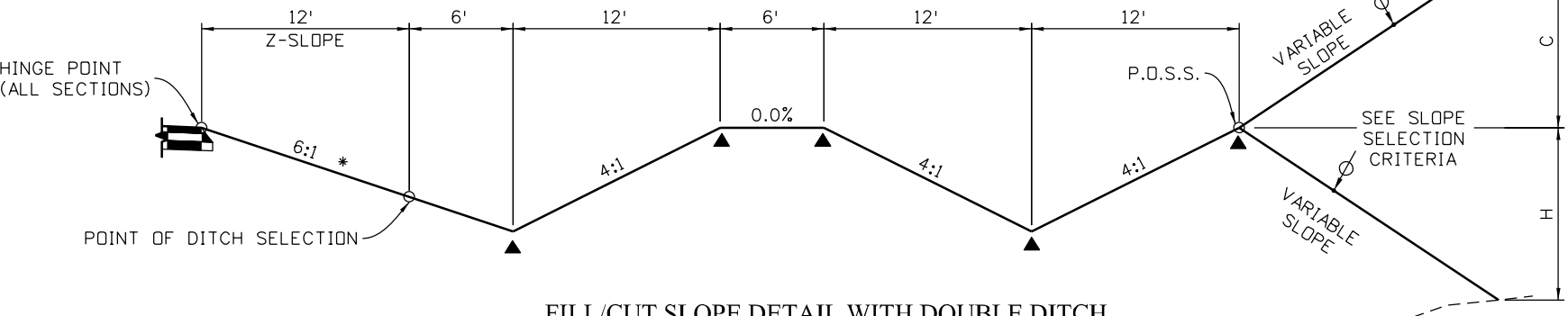
8" HOT MIX ASPHALT
FULL DEPTH PAVEMENT DETAILS
(TYPICAL FOR US 550)



SAFETY EDGE DETAIL
(TYPICAL FOR ALL SECTIONS)



FILL/CUT SLOPE DETAIL WITH SINGLE DITCH
(SEE PLANS AND CROSS SECTIONS FOR FILL/CUT SLOPE DITCH TYPE)




FILL/CUT SLOPE DETAIL WITH DOUBLE DITCH
(SEE PLANS AND CROSS SECTIONS FOR FILL/CUT SLOPE DITCH TYPE)

TYPICAL SECTION NOTES

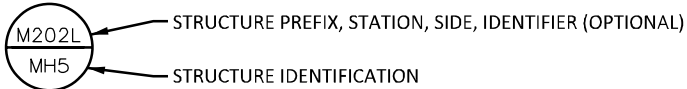
- P.G.L. -PROFILE GRADE LINE
- H.M.A. -HOT MIX ASPHALT
- P.O.S.S. -POINT OF SLOPE SELECTION
- H.P. -HINGE POINT
- ⊕ THE CONTRACTOR WILL BE REQUIRED TO PLACE 6 INCHES OF TOPSOIL TO THIS LINE AFTER COMPLETION OF PAVING OPERATION.
- ▲ BREAKPOINTS IN SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- APPROXIMATE THICKNESS (MINIMUM)
- △ ROADWAY CROSS SLOPE FOR SPECIFIC CROSS SLOPES AND SUPERELEVATION LIMITS SEE PROFILE SHEETS.
- * THE CONTRACTOR SHALL PLACE ABC (SPECIAL) TO THIS LINE AFTER COMPLETION OF PAVING OPERATIONS.

Mer: 3-34-07 P:\13-034.01 US 550 South Connection SEIS Alternative Analysis\19378 Design\Drawings\R5\19378DES_R5-Typ02.dgn
5/1/2014 CDDT-DefaultPrinter-V8i.plt CDDT-Per Table V8I-revised.tbl

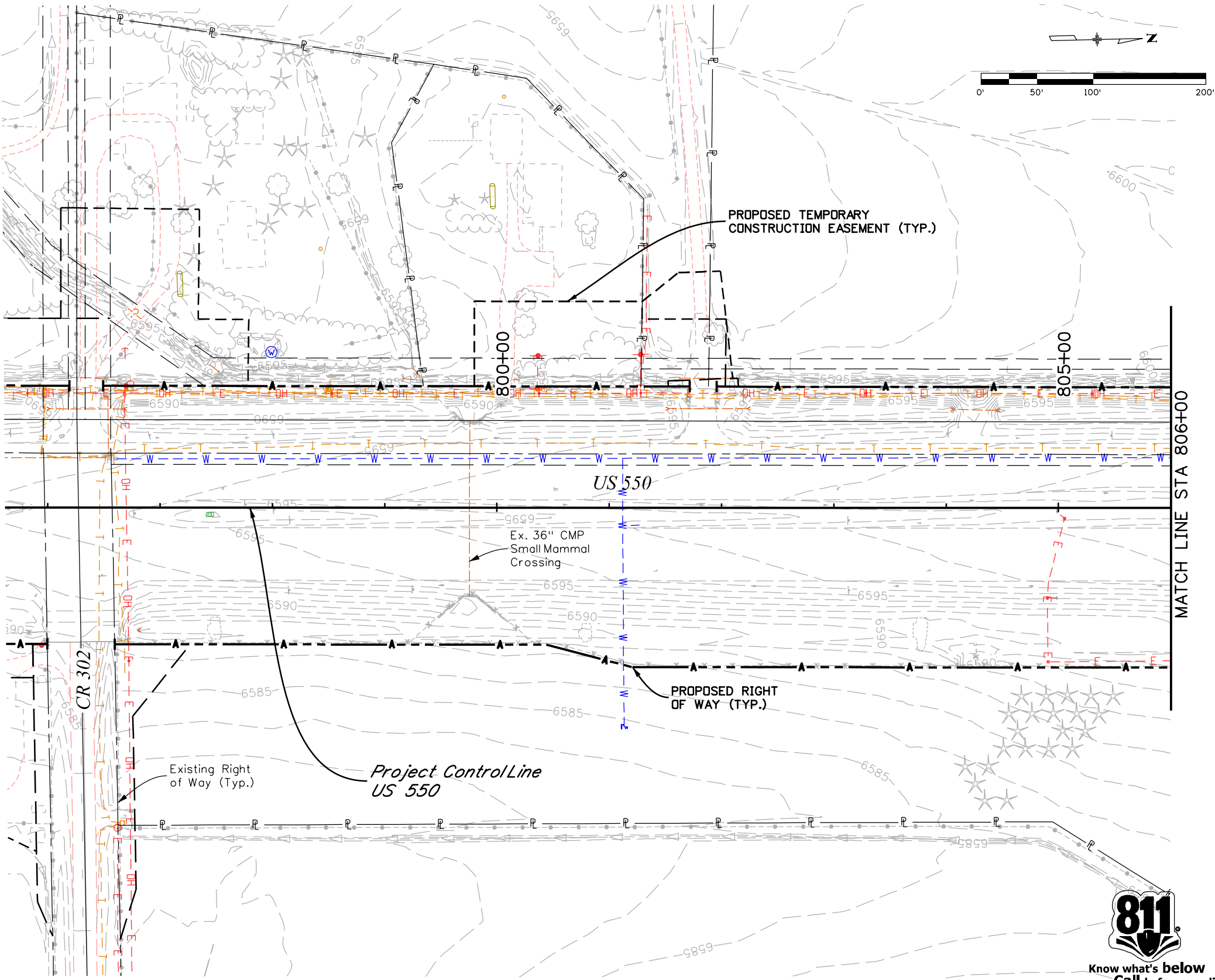
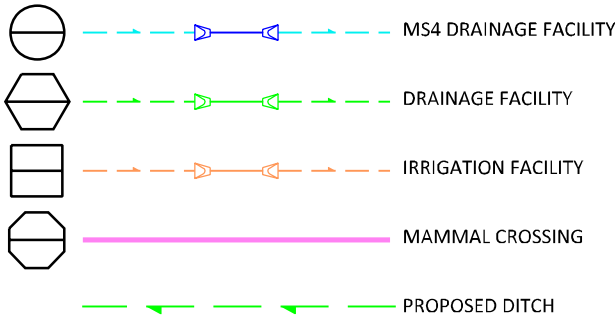
Print Date: 5/1/2014		<div>0000</div>			Sheet Revisions			<div>Colorado Department of Transportation</div> <div><div><div></div><div>3803 North Main Avenue Suite 200 Durango, CO 81301 Phone: 970-385-1440 FAX: 970-385-8365</div></div><div>Region 5</div><div>SPC</div></div>			As Constructed		<div>US 550 R5</div> <div>TYPICAL SECTIONS</div> <div>Designer: ACC</div> <div>Detailer: MAW</div> <div>Sheet Subset: ROADWAY</div> <div>Subset Sheets: 1 of 5</div>			Project No./Code	
File Name: 19378DES_R5-Typ02.dgn					No Revisions:		-										
Horiz. Scale: 1:10					Revised:		19378										
Unit Information					Void:		Sheet Number										
Unit Leader Initials																	
<div>MULLER</div> <div>Muller Engineering Co., Inc. 777 S. WADSWORTH BLVD., # 4-100 Consulting Engineers LAKEWOOD, CO. 80226 P:/13-034.01/Design/Drawings (303) 988-4939</div>																	

DRAINAGE LEGEND

STRUCTURE PREFIX	STRUCTURE TYPE
H	HEADWALL
I	INLET
M	MANHOLE
F	FLARED END SECTION



STRUCTURE IDENTIFICATION	STRUCTURE TYPE
C	INLET TYPE C
D	INLET TYPE D
FES	FLARED END SECTION
MHB	MANHOLE BOX BASE
MHX	MANHOLE SLAB BASE (X DIAMETER)
MHS	MANHOLE SLAB BASE (SPECIAL)
OS	OUTLET STRUCTURE
PE	PIPE END
RX	INLET TYPE R (X LENGTH)
VGS	INLET VANE GRATE (SINGLE)
VGD	INLET VANE GRATE (DOUBLE)
HW	HEADWALL



Know what's below
Call before you dig.

Print Date: 12/12/2018
Drawing File Name: 22420HYDR_Plan01.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted
Unit Information Unit Leader Initials



Sheet Revisions

Date:	Comments	Init.

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Suite 200
Durango, CO 81301
Phone: 970-385-1440 FAX: 970-385-8365
Region 5 DRV

As Constructed

No Revisions:
Revised:
Void:

US 550 DRAINAGE PLAN
STA. 792+00 TO STA. 806+00

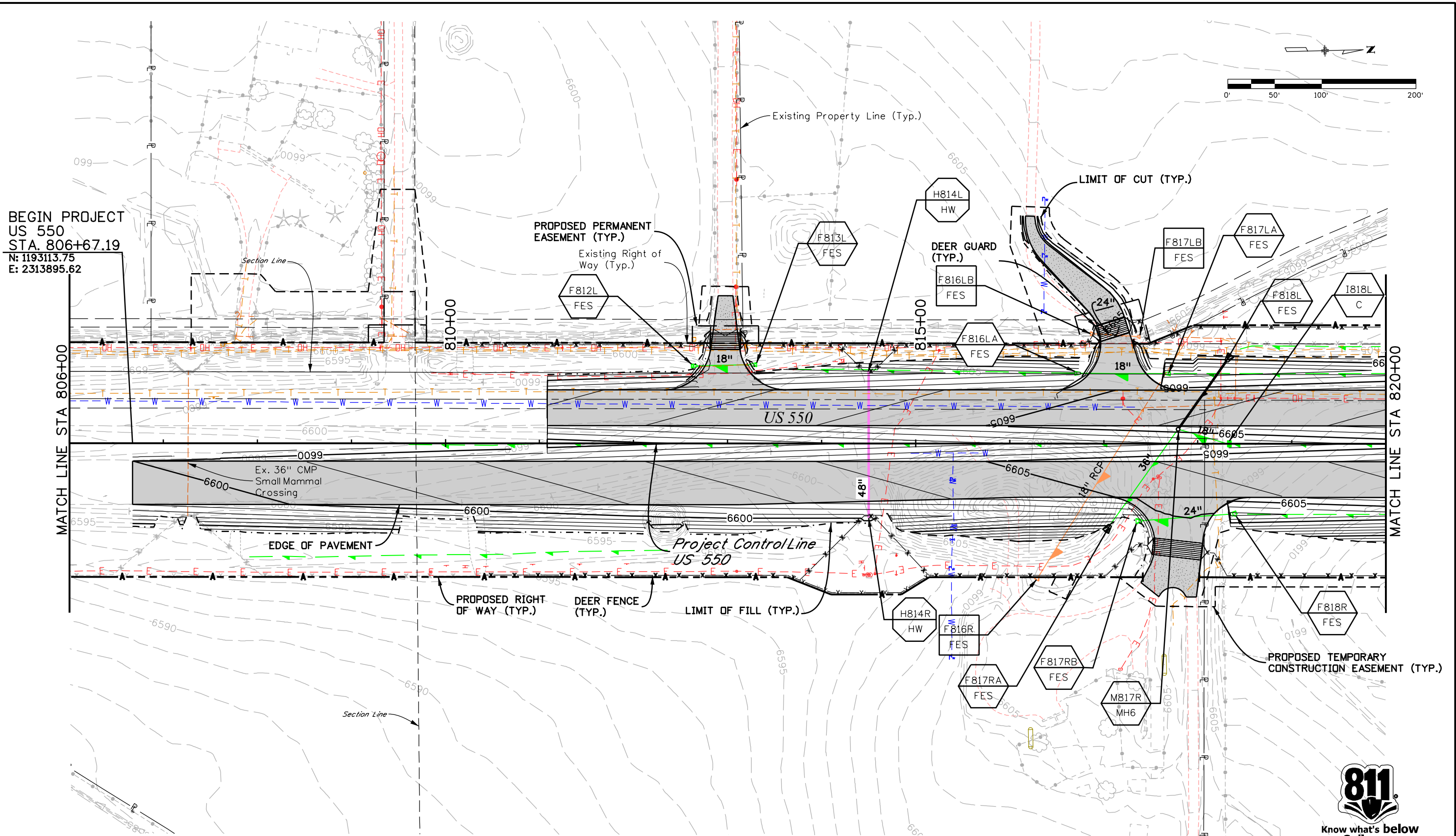
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Detailer:	LMR	Numbers	
Sheet Subset:	DRAINAGE	Subset Sheets:	1 of 19

Project No./Code

Project Number
22420
Sheet Number

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Print Date: 12/12/2018
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Date:	Comments	Init.

Region 5

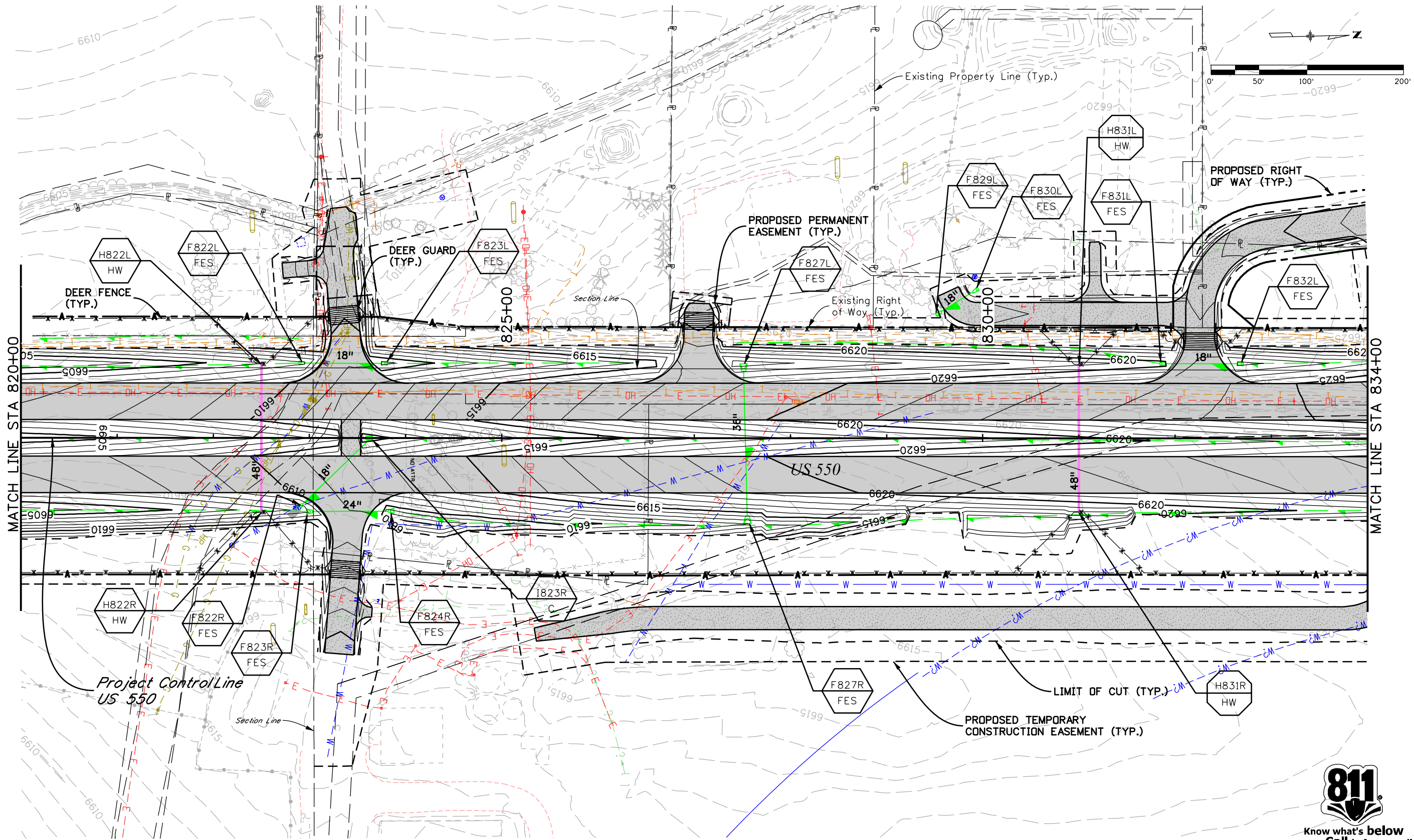
Colorado Department of Transportation

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DRV

As Constructed		US 550 DRAINAGE PLAN STA. 806+00 TO STA. 820+00			Project No./Code	
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Revised:		Designer:	CHH	Structure	22420	
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Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

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DRV

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No Revisions:					Project Number	
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