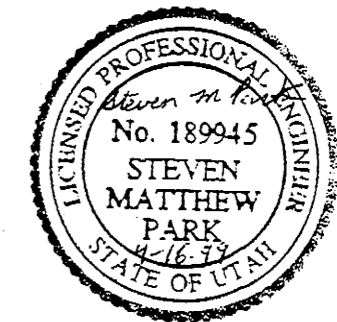
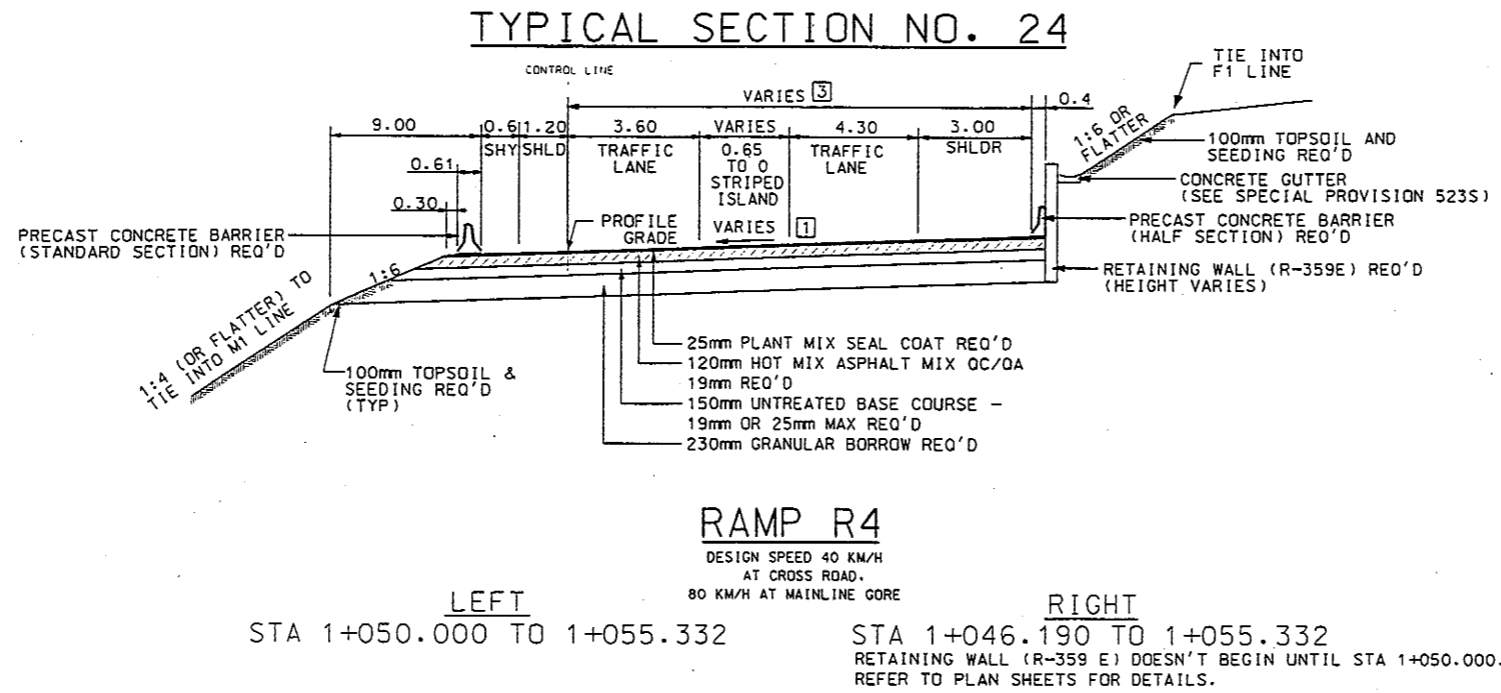
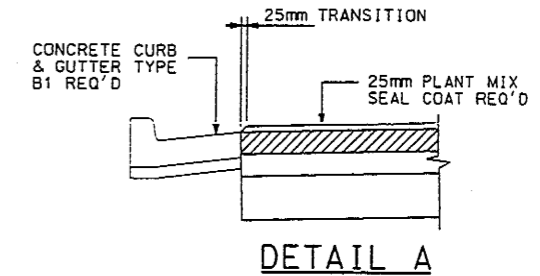
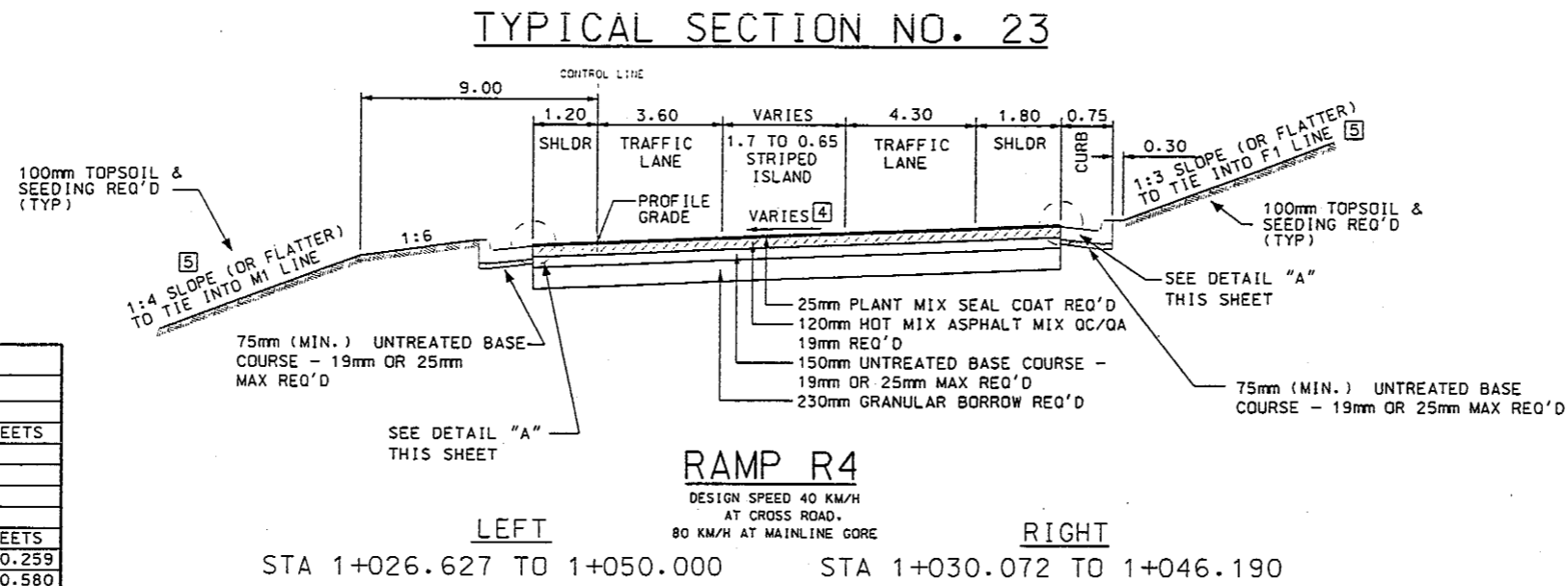


NOTES:

- 1 SEE PROFILE SHEETS FOR PAVEMENT CROSS SLOPES AND SUPERELEVATION DATA
- 2 ALL UNITS ARE IN METERS UNLESS OTHERWISE NOTED
- 3 REFER TO PLAN SHEETS & TABLE FOR PAVEMENT WIDTHS & TRANSITIONS
- 4 REFER TO INTERSECTION GRADING SHEETS FOR PAVEMENT WIDTHS & CROSS SLOPES AT INTERSECTION APPROACHES
- 5 REFER TO GRADING SHEETS

PAVEMENT WIDTH TABLE	
STATION	WIDTH
R4 LINE - LEFT	
1+000.000 TO 1+026.627	SEE PLAN SHEETS
1+026.627 TO 1+050.000	1.200
1+050.000 TO 1+260.000	2.710
1+260.000 TO 1+323.353	1.200
R4 LINE - RIGHT	
1+000.000 TO 1+030.072	SEE PLAN SHEETS
1+030.072 TO 1+046.190	11.302 TO 10.259
1+046.190 TO 1+064.705	11.859 TO 10.580
1+064.705 TO 1+080.012	10.580
1+080.012 TO 1+167.500	10.580 TO 7.080
1+167.500 TO 1+220.000	7.080
1+220.000 TO 1+323.353	6.100



UTAH DEPARTMENT OF TRANSPORTATION
REGION TWO -- SALT LAKE CITY, UTAH
ROADWAY DESIGN

DESIGN	EAR	B/87	CHECK	DJK	6/88	REVIEW	DATE
DRAWN	DJK	6/88	CHECK	EAR	T/WB	BY	DATE

CHERRY HILL INTERCHANGE
RAMP

TYPICAL SECTIONS
PROJECT NUMBER #HDP-9124(003)

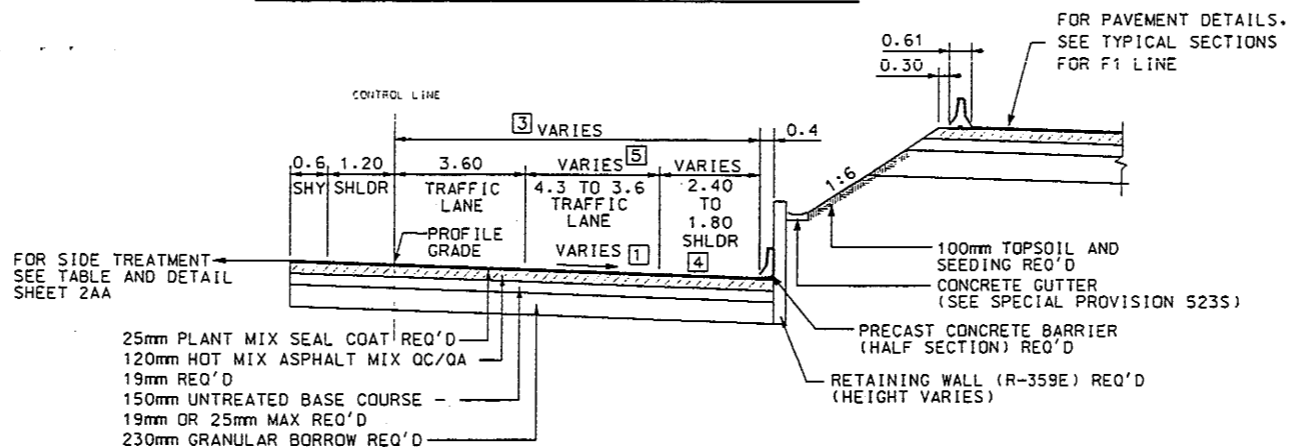
DAVIS COUNTY

SHEET NO. 2K

NOTES:

- 1 SEE PROFILE SHEETS FOR PAVEMENT CROSS SLOPES AND SUPERELEVATION DATA
- 2 ALL UNITS ARE IN METERS UNLESS OTHERWISE NOTED
- 3 REFER TO PLAN SHEETS & TABLE FOR PAVEMENT WIDTHS & TRANSITIONS
- 4 SHOULDER TRANSITIONS FROM 2.4 @ STA 1+080.012 TO 1.8 @ STA 1+095.000
- 5 LANE TRANSITIONS FROM 4.3 @ 1+055.332 TO 3.6 @ 1+065.332

TYPICAL SECTION NO. 25

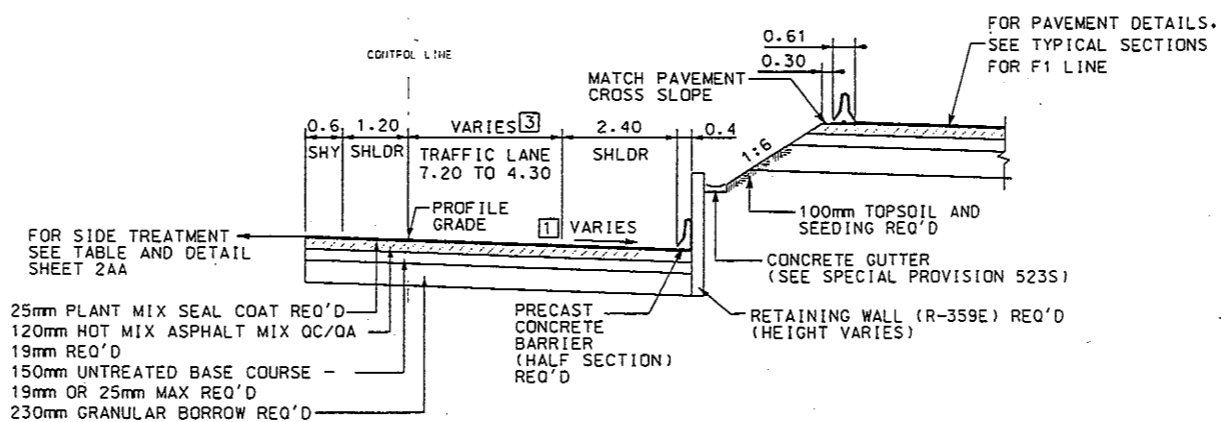


RAMP R4

DESIGN SPEED 40 KM/H AT CROSS ROAD.
80 KM/H AT MAINLINE GORE
STA 1+055.332 TO STA 1+095.000

PAVEMENT WIDTH TABLE	
STATION	WIDTH
R4 LINE - LEFT	
1+050.000 TO 1+260.000	2.710
R4 LINE - RIGHT	
1+046.190 TO 1+064.705	11.479 TO 10.220
1+064.705 TO 1+080.012	10.220
1+080.012 TO 1+101.766	10.220 TO 9.349
1+101.766 TO 1+167.500	9.349 TO 6.720

TYPICAL SECTION NO. 26



RAMP R4

DESIGN SPEED 40 KM/H AT CROSS ROAD.
80 KM/H AT MAINLINE GORE
STA 1+095.000 TO STA 1+167.500

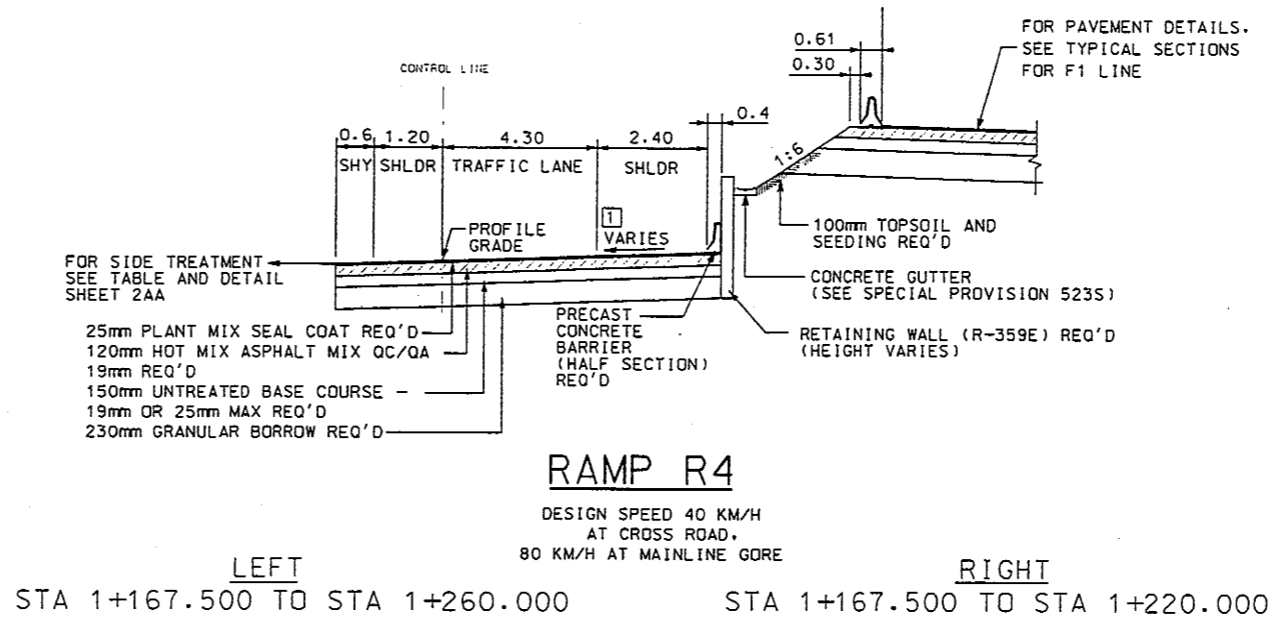


UTAH DEPARTMENT OF TRANSPORTATION REGION - TWO -- SALT LAKE CITY, UTAH ROADWAY DESIGN		REVIEW DATE
DESIGN DATE	CHECK DATE	REMARKS
DRAWN DATE	CHECK DATE	DESIGN MAPS REQUESTED BY
QUANT.	CHECK DATE	ORIGINAL SUBMISSION FOR AUTHORIZATION
APPROVED DATE	CHECK DATE	REVISIONS
CHERRY HILL INTERCHANGE RAMP		PROJECT NUMBER #HDP-9124(003)
TYPICAL SECTIONS		DAVIS COUNTY
SHEET NO. 2L		DATE

NOTES:

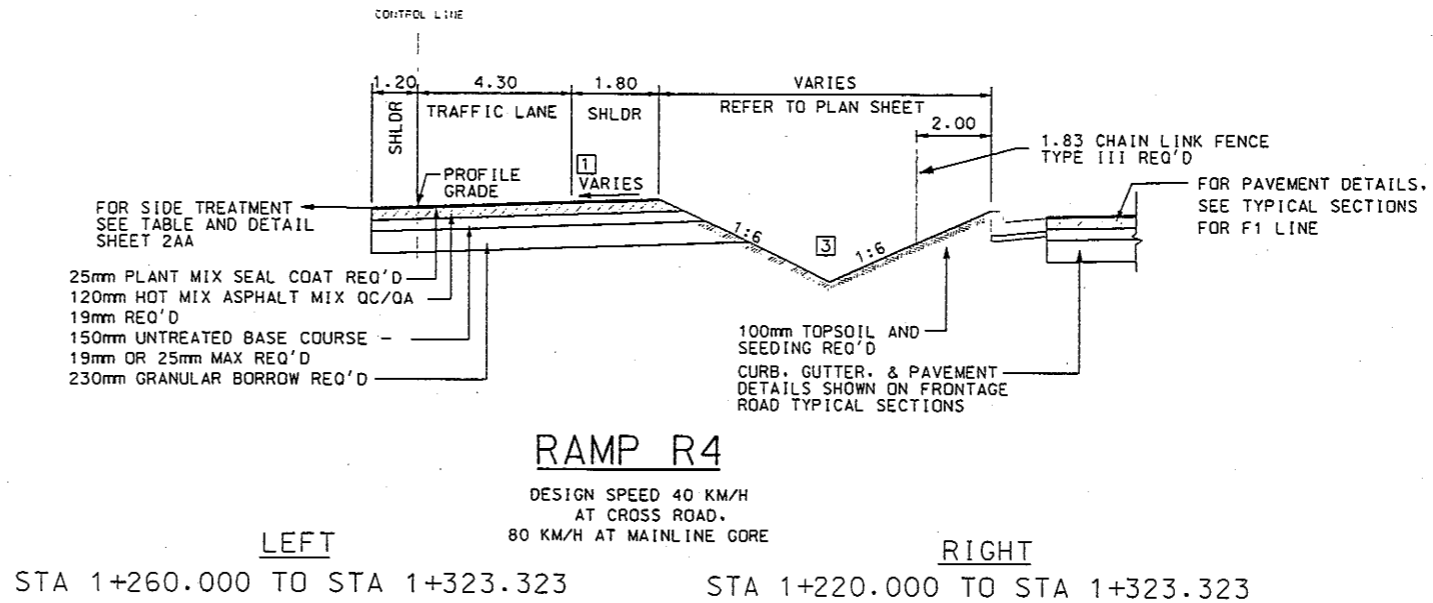
- 1 SEE PROFILE SHEETS FOR PAVEMENT CROSS SLOPES AND SUPERELEVATION DATA
- 2 ALL UNITS ARE IN METERS UNLESS OTHERWISE NOTED
- 3 REFER TO HYDRAULIC SHEETS FOR CATCH BASIN LOCATIONS. GRADE TO DRAIN

TYPICAL SECTION NO. 27



PAVEMENT WIDTH TABLE	
STATION	WIDTH
R4 LINE - LEFT	
1+050.000 TO 1+260.000	2.710
1+260.000 TO 1+323.353	1.200
R4 LINE - RIGHT	
1+167.500 TO 1+220.000	6.720
1+220.000	6.720 TO 6.100
1+220.000 TO 1+323.353	6.100

TYPICAL SECTION NO. 28



UTAH DEPARTMENT OF TRANSPORTATION
REGION TWO -- SALT LAKE CITY, UTAH
ROADWAY DESIGN

CHERRY HILL INTERCHANGE
RAMP
TYPICAL SECTIONS
PROJECT NUMBER *HDP-9124(1003)

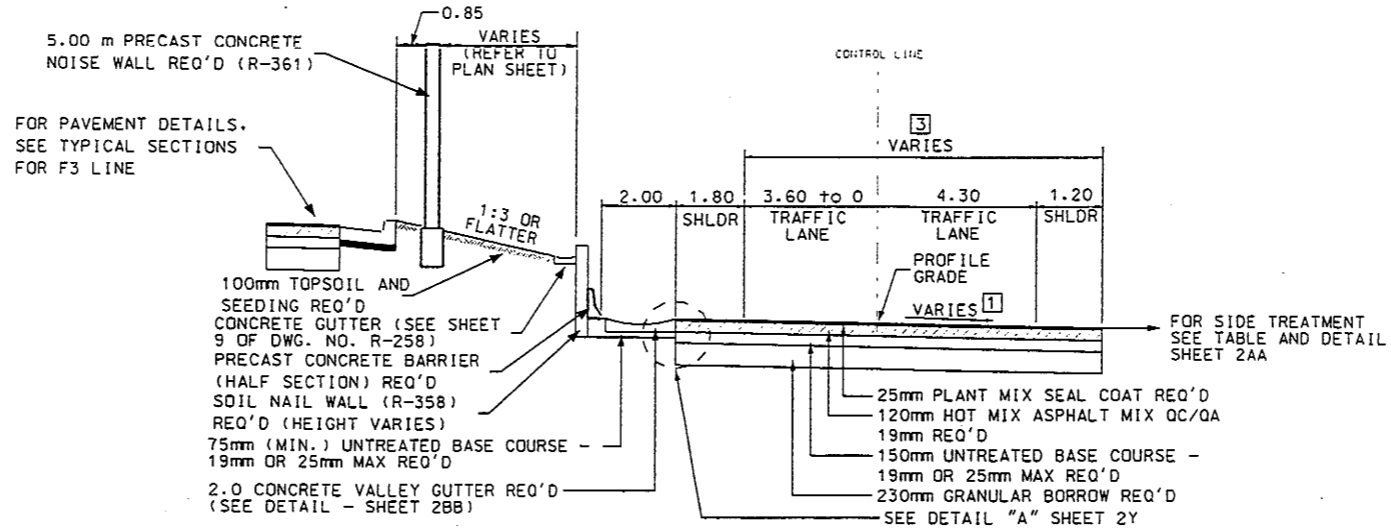
DESIGN	EAR	6/97	CHECK	DLK	6/98	REVIEW	DATE
DRAWN	DLK	6/98	CHECK	EAR	7/98	DATE	BY
APPROVED	DATE	PROJECT DESIGN ENGINEER	APPROVED	DATE	ROADWAY DESIGN ENGINEER	REVISIONS	DATE

DAVIS COUNTY

SHEET NO. 2M

- NOTES:
- 1 SEE PROFILE SHEETS FOR PAVEMENT CROSS SLOPES AND SUPERELEVATION DATA
 - 2 ALL UNITS ARE IN METERS UNLESS OTHERWISE NOTED
 - 3 REFER TO PLAN SHEETS & TABLE FOR PAVEMENT WIDTHS & TRANSITIONS

TYPICAL SECTION NO. 21



RAMP R3

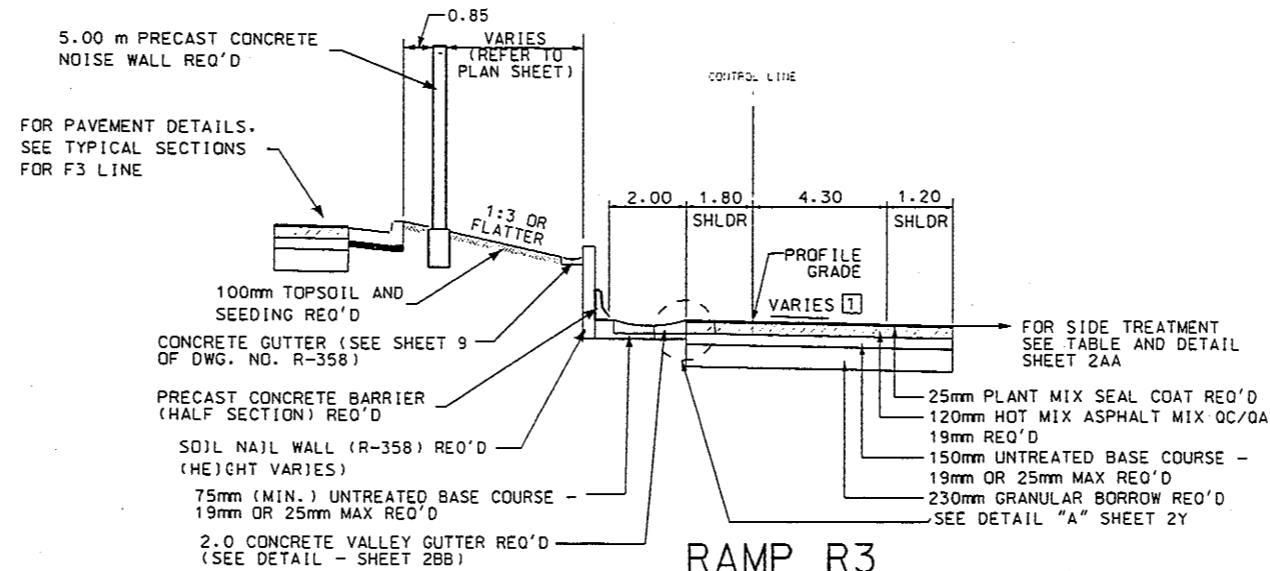
DESIGN SPEED 40 KM/H AT CROSS ROAD.
80 KM/H AT MAINLINE GORE

RETAINING WALL AND CONCRETE VALLEY GUTTER TREATMENT BEGINS AT STA 1+160.000

LEFT STA 1+162.000 TO STA 1+252.000 RIGHT STA 1+185.500 TO STA 1+264.749

PAVEMENT WIDTH TABLE	
STATION	WIDTH
R3 LINE - LEFT	
1+147.037 TO 1+252.000	6.00 TO 1.80
1+252.000 TO 1+264.749	1.80
R3 LINE - RIGHT	
1+113.000 TO 1+185.500	8.400 TO 5.500
1+185.500 TO 1+264.749	5.500

TYPICAL SECTION NO. 22



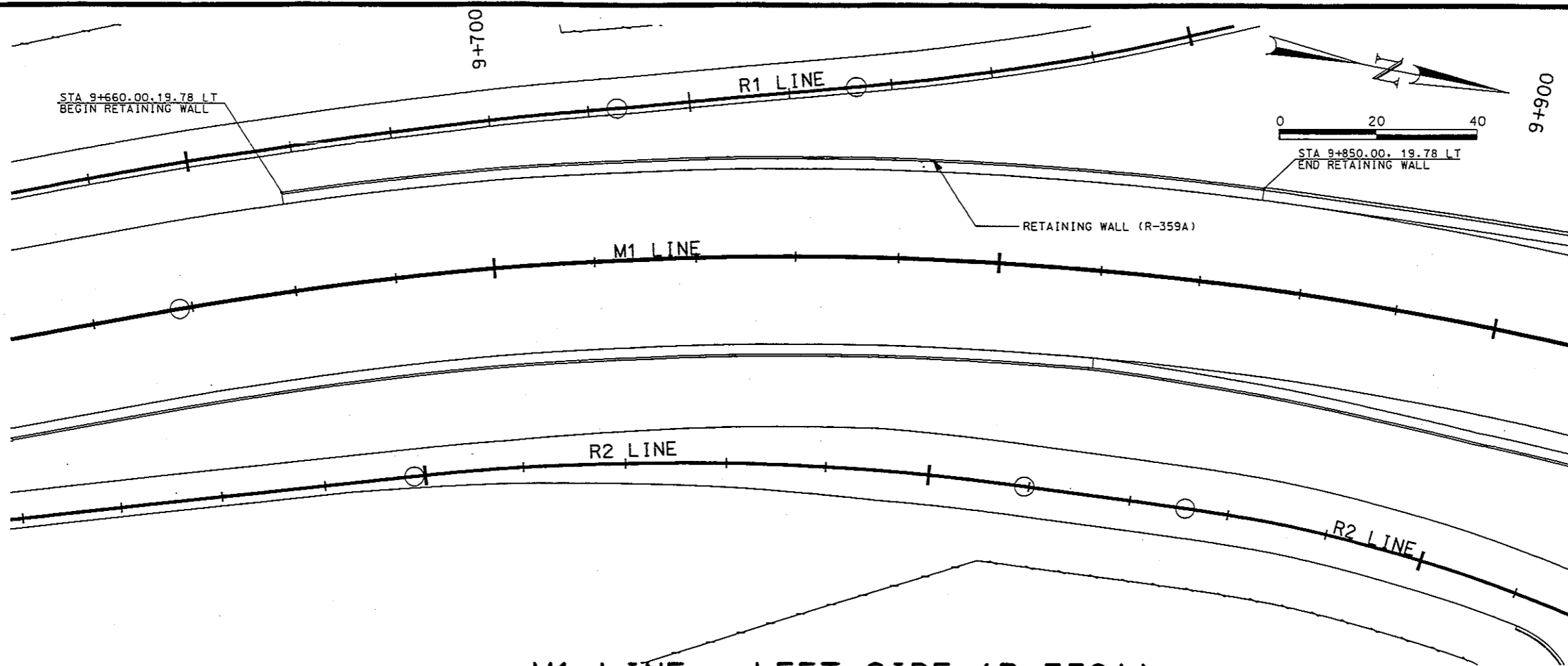
RAMP R3

DESIGN SPEED 40 KM/H AT CROSS ROAD.
80 KM/H AT MAINLINE GORE

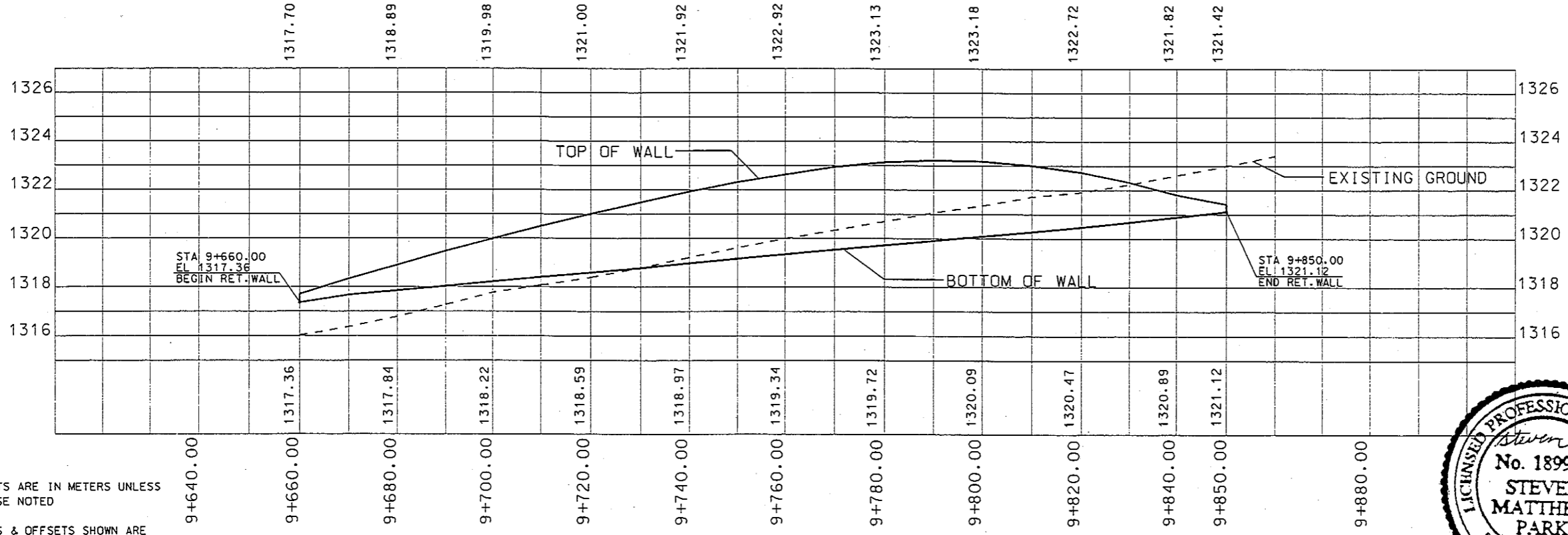
LEFT STA 1+252.000 TO STA 1+264.749



UTAH DEPARTMENT OF TRANSPORTATION REGION TWO -- SALT LAKE CITY, UTAH ROADWAY DESIGN		REVIEW DATE
DESIGN	CHECK	DATE
DRAWN	CHECK	DATE
QUANT.	CHECK	DATE
APPROVAL RECORD	PROJECT DESIGN ENGINEER	DATE
APPROVED	ROADWAY DESIGN ENGINEER	DATE
CHERRY HILL INTERCHANGE RAMP		PROJECT NUMBER *HDP-9124(003)
TYPICAL SECTIONS		DAVIS COUNTY
SHEET NO. 2J		REVISIONS



M1 LINE - LEFT SIDE (R-359A)



- NOTES:
- ALL UNITS ARE IN METERS UNLESS OTHERWISE NOTED
 - STATIONS & OFFSETS SHOWN ARE TO FINISHED FACE OF WALL
 - THE FINISHED FACE OF WALL CONTAINS APPROXIMATELY 420 SQ. METERS



UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION		DESIGN SMP 9/98	CHECK EAR 2/99
APPROVAL RECORD	DATE	DESIGN ENGR.	CHECK SMP 2/99
APPROVED	DATE	CHIEF STRUCTURAL ENGR.	CHECK SMP 2/99
CHERRY HILL INTERCHANGE	RETAINING WALL R-359A	PLAN AND PROFILE	PROJECT NUMBER #HDP-9124(003)
DAVIS COUNTY	R-359A	DRG. NO.	
SHT. 1 OF 3			

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: 9819.000						
BORING RB&G NO 7		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 7/31/98						
		LOCATION: R1 LINE, STA. 1+400.0, CENTERLINE		ELEVATION: 1317.81m						
		DRILLER: B. HARTLEY		LOGGED BY: M. HANSEN/V.N.B.						
		EQUIP./DRILL METHOD: CME-55 / N.W. CASING		DEPTH TO WATER - INITIAL: 1.83m AFTER 24 HOURS: 3.32						
Elev (m)	Depth (m)	Blow Pz (0.30m)	USCS (AASHTO)	Material Description	Moisture Content %	Dry Density (kN/m ³)	Liquid Limit %	Plasticity Index %	Gradation	Other Tests
1317.81	0	3.46	SC	CLAYEY SAND w/organics, dk. to lt. brown						
1317.81	1	2.11	SM	SILTY SAND lt. brown			33	8	27 53 20	
1315	2	8.61	SC	CLAYEY SAND w/GRAVEL fine grained gravel, lt. brown						
1315	3	0.32	CL							
1310	4	0.20	CL-M (A-4)	SANDY CLAY w/SILTY SAND LAYERS dk. gray	27.6	14.68	26	4		CT SG
1310	5	2.22	CL							
1310	6	0.15	CL							
1310	7	1.11	SM (A-4)					NP	0 62 38	
1310	8	2.51	SM	SILTY SAND w/some coarse sand and shell fragments (gastropods), lt. brown to dk. gray						
1310	9	8.11	SP-SM (A-2-4)							
1310	10	3.17	SM	w/clay layers and lenses						
1310	11	0.25	SM							
1305	12	3.63	CL (A-6)	SILTY CLAY gray-brown	25.7	15.41	30	8		CT SG
1305	13		CL							
1305	14		CL							
1305	15		SM	SILTY SAND w/CLAY LENSES (trace of rip-up clasts, trace of organics, gray-brown)						

Bottom of hole 15.8 m

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: 9819.000						
BORING RB&G NO 8		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 8/3/98						
		LOCATION: M1 LINE, STA. 9+840.0, 24m LEFT		ELEVATION: 1322.92m						
		DRILLER: B. HARTLEY		LOGGED BY: M. HANSEN/V.N.B.						
		EQUIP./DRILL METHOD: CME-55 / N.W. CASING		DEPTH TO WATER - INITIAL: 5.18m AFTER 24 HOURS: -						
Elev (m)	Depth (m)	Blow Pz (0.30m)	USCS (AASHTO)	Material Description	Moisture Content %	Dry Density (kN/m ³)	Liquid Limit %	Plasticity Index %	Gradation	Other Tests
1322.92	0	22.50, 26	SM	102 mm CONCRETE SLAB						
1322.92	1	7.10, 58	SM (A-4)	OLD ASPHALT						
1322.92	2	8.15, 13	SM (A-4)	SANDY GRAVEL w/SILT lt. brown						
1322.92	3	6.55	SM (A-4)	SILTY SAND brown						
1322.92	4	6.10, 7	SM	ASPHALT						
1322.92	5	3.65	SM	SANDY GRAVEL w/SILT						
1320	6	8.15, 13	SM (A-4)							
1320	7	6.55	SM (A-4)	SILTY SAND w/CLAY brown, lt.						
1320	8	6.10, 7	SM							
1320	9	3.65	SM	SILTY SAND w/CLAY LAYERS lt. brown						
1320	10	29.14, 12	GP-GM							
1315	11	20.36, 14	GC	GRAVEL w/SAND AND SILT dk. brown very dense						

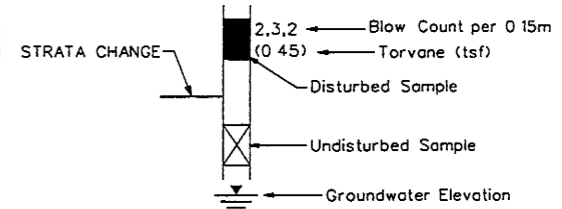
Bottom of hole 8.1 m

KEY TO DRILLING LOG
 RELATIVE DENSITY (NON-PLASTIC SAND & SILT)
 VERY LOOSE - N LESS THAN 4
 LOOSE - N 4 TO 10
 MEDIUM - N 10 TO 30
 DENSE - N 30 TO 50
 VERY DENSE - N MORE THAN 50

CONSISTENCY (PLASTIC - SILT & CLAY)
 VERY SOFT - N LESS THAN 2
 SOFT - N 2 TO 4
 MEDIUM - N 4 TO 8
 STIFF - N 8 TO 15
 VERY STIFF - N 15 TO 30
 HARD - N MORE THAN 30

	TOPSOIL OR FILL		IGNEOUS		SANDY CLAY
	GRAVEL		LIMESTONE		CLAYEY SAND
	SAND		CONGLOMERATE		SILTY CLAY
	SILT		DOLOMITE		CLAYEY SILT
	CLAY		SANDSTONE		SILTY SAND
	CLAYSTONE		SILTSTONE		SANDY SILT

LEGEND

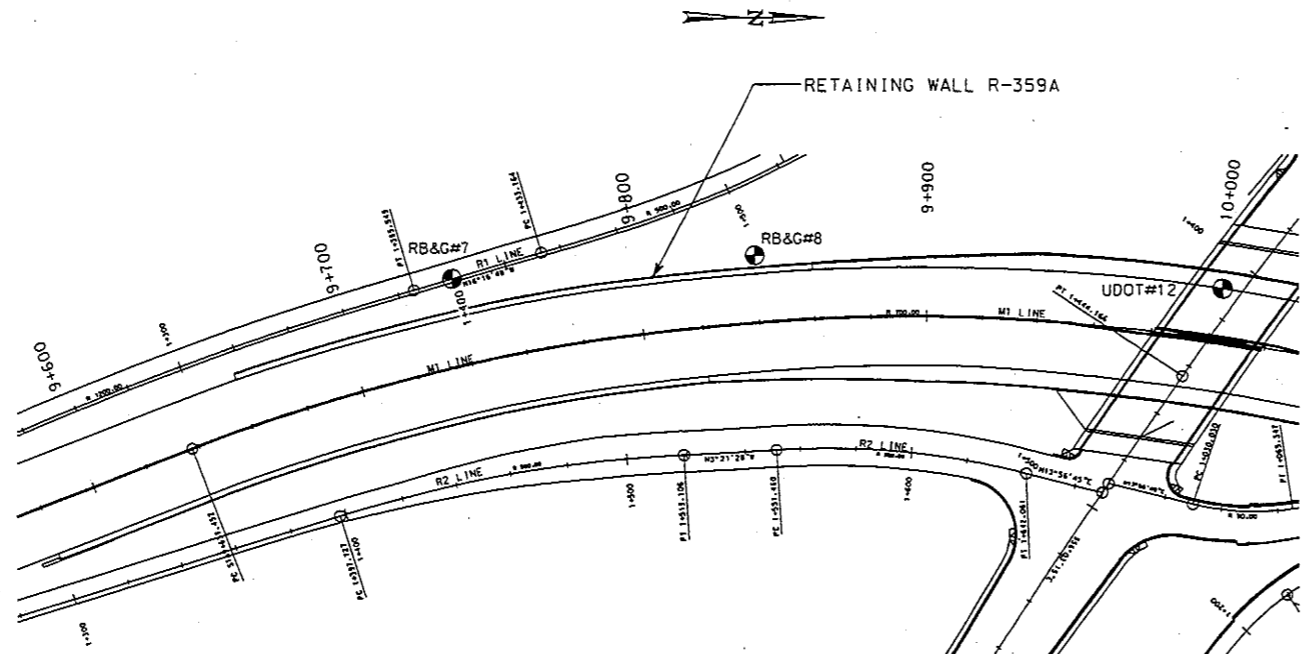


ABBREVIATIONS

UC = Unconfined Compression test
 CT = Consolidation Test
 SG = Specific Gravity Test
 VS = Vane Shear Test

GENERAL NOTES

- THE SUBGRADE SURFACE EXPLORATIONS SHOWN WERE CONDUCTED BETWEEN JULY-31-98 AND AUG-3-98, AND BETWEEN APRIL-23-98 AND APRIL-29-98.
- THESE DRILL LOGS REPRESENT A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN EACH 89 mm DIAMETER BORING AND ARE BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGEMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THESE DRILL LOGS MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR.
- THE WATER LEVELS AND CONDITIONS INDICATED ON THE DRILL LOGS REPRESENT HOLE CONDITIONS ON THE DATE SHOWN, EITHER WITH CASING STILL IN PLACE OR WITH PERFORATED PLASTIC PIPE INSTALLED. IT SHOULD BE NOTED, HOWEVER, THAT AT LOCATIONS AWAY FROM THE TEST HOLES OR AT OTHER TIMES OF THE YEAR THE WATER LEVELS AND CONDITIONS MAY VARY SIGNIFICANTLY.
- THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND TRANSITION MAY BE GRADUAL.
- COBBLE - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION BETWEEN 76 mm AND 305 mm.
- BOULDER - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION OF 305 mm OR MORE.



LOCATION PLAN



UTAH DEPARTMENT OF TRANSPORTATION		REVISIONS
REGION	STRUCTURES DIVISION	NO. DATE BY
DESIGNER	DRAWN	CHECK
DESIGNED BY: <i>Bradford E. Price</i>	DRAWN BY: <i>Bradford E. Price</i>	CHECK BY: <i>Bradford E. Price</i>
DATE: 8/3/98	DATE: 8/3/98	DATE: 8/3/98
APPROVED	CHEF STRUCTURAL ENGR.	QUANT.
CHERRY HILL INTERCHANGE		
MSE WALL R-359A		
SOIL DATA		
PROJECT NUMBER: HDP-9124(003)		
DAVIS COUNTY		
R-359A		
DWG. NO.		
SHEET NO. 2 OF 3		

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO. :-							
BORING UDOT NO 12		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 4/23/98 TO 4/28/98							
		LOCATION: M.I. LINE, STA. 10+002.0, 18.25m LEFT		ELEVATION: 1329.87m							
		DRILL CREW: SIZEMORE, WORWOOD, GRAHAM		LOGGED BY: -							
		EQUIP/DRILL METHOD: RIG B-5HDX									
		DEPTH TO WATER - INITIAL: 1.68m AFTER 24 HOURS: 4.88m									
Elev (m)	Depth (m)	USCS (AASHTO)	Material Description	Moisture Content %	Dry Density (Mg/m ³)	Liquid Limit %	Plasticity Index %	Gravel %	Sand %	Silt/Clay %	Other Tests
1324.58	1	SM	ASPHALT CONCRETE								
	2	SM	SILTY SAND w/GRAVEL (tan fill)								
	3	SM	SILTY SAND w/GRAVEL (green-brown to brown fill)								
	4	SM	SILTY SAND brown to dk. brown, loose to medium few thin clay lenses								
	5	SM	SILTY SAND brown to dk. brown, loose to medium few thin clay lenses								
	6	CL	LEAN CLAY brown								
	7	SM	SILTY SAND TO SANDY SILT traces to some clay and some thin lenses of lean clay, brown some gray medium	24.1							
	8	SM	grading to lean clay w/sand lenses								
	9	CL-M (A-4)	few sand lenses	26.9	15.41	25	5				UC HY
	10	CL	few sand lenses								
	11	CL	SILTY CLAY w/SAND TO LEAN CLAY brown-gray stiff	28.2	10.44	27	9				UC
	12	CL	few sand lenses								
	13	CL	few sand lenses								
	14	CL	few sand lenses								
	15	CL-M (A-4)	few sand lenses	21.1	16.95	24	3				UC
	16	CL-M (A-4)	few sand lenses								
	17	SM/CL	ALTERNATING LENSES OF SILTY SAND AND LEAN CLAY gray and brown								
	18	SM/CL	gray, brown-gray	27.6		n/a	n/p	0	23	77	VS
	19	SM/CL	gray, brown-gray								
	20	SM/CL	gray, brown-gray								
	21	SM/CL	gray, brown-gray								
	22	CL/SM	trace of gravel								
	23	CL/SM	LENSES OF SILTY SAND, SILTY CLAY AND SILT								
	24	CL/SM	traces of gravel								
	25	CL-M (A-4)		22.9	16.80	25	6	0	18	82	UC
	26	CL/SM									
	27	CL/SM									
	28	CL/SM		26.5		32	12				
	29	CL/SM	sandy silt lenses								
	30	CL	LEAN CLAY w/lenses of sandy lean clay, brown-gray, very stiff	25.9	15.94	30	12				UC
	31	CL	sand and silt lenses								
	32	CL									
	33	CL									
	34	SM	BOULDER								
	35	SM	SILTY SAND w/GRAVEL, COBBLES AND BOULDER gray								
	36	CL	LEAN CLAY w/SAND brown-gray								
	37	SM	SILTY SAND w/GRAVEL COBBLES gray								
	38	SM	SILTY SAND w/GRAVEL AND COBBLES gray								
	39	SM	SILTY SAND w/GRAVEL AND COBBLES gray								

Bottom of hole 38.1m

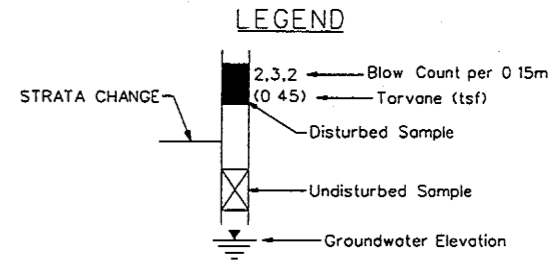


KEY TO DRILLING LOG
 RELATIVE DENSITY (NON-PLASTIC SAND & SILT)
 VERY LOOSE - N LESS THAN 4
 LOOSE - N 4 TO 10
 MEDIUM - N 10 TO 30
 DENSE - N 30 TO 50
 VERY DENSE - N MORE THAN 50

CONSISTENCY (PLASTIC - SILT & CLAY)
 VERY SOFT - N LESS THAN 2
 SOFT - N 2 TO 4
 MEDIUM - N 4 TO 8
 STIFF - N 8 TO 15
 VERY STIFF - N 15 TO 30
 HARD - N MORE THAN 30

LEGEND

	TOPSOIL OR FILL		IGNEOUS		SANDY CLAY
	GRAVEL		LIMESTONE		CLAYEY SAND
	SAND		CONGLOMERATE		SILTY CLAY
	SILT		DOLOMITE		CLAYEY SILT
	CLAY		SANDSTONE		SILTY SAND
	CLAYSTONE		SILTSTONE		SANDY SILT



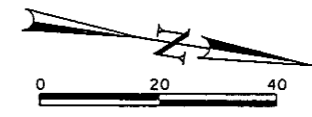
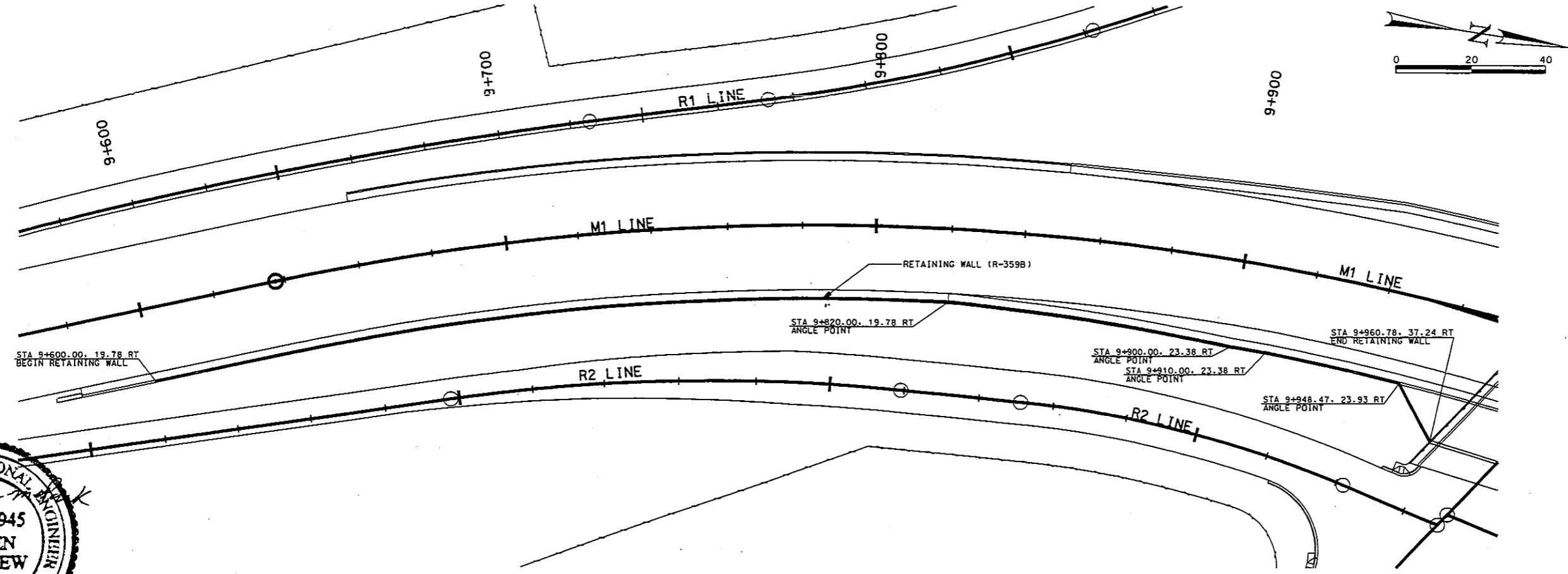
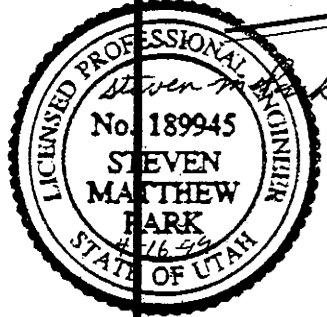
ABBREVIATIONS

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- SG = Specific Gravity Test
- VS = Vane Shear Test
- HY = Hydrometer Test

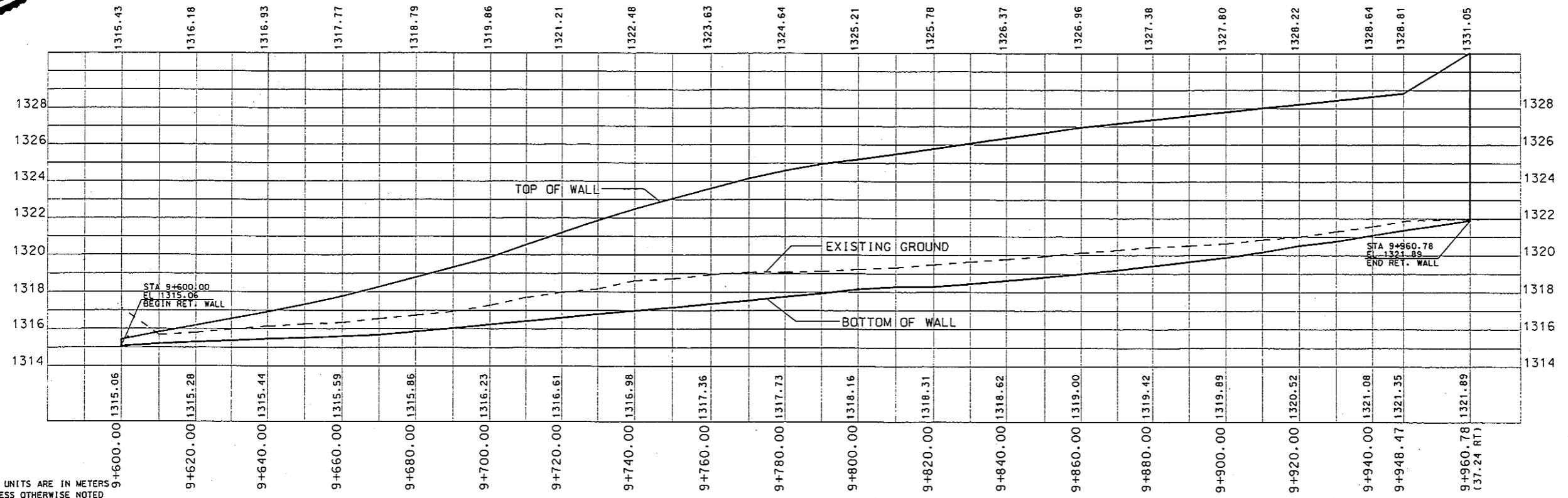
GENERAL NOTES

- THE SUBGRADE SURFACE EXPLORATIONS SHOWN WERE CONDUCTED BETWEEN JULY-31-98 AND AUG-3-98, AND BETWEEN APRIL-23-98 AND APRIL-29-98.
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- BOULDER - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION OF 305 mm OR MORE.

UTAH DEPARTMENT OF TRANSPORTATION		STRUCTURE DIVISION	
REGION		DESIGN ENGINEER	
APPROVAL		DATE	
CHECK		CHECK	
DATE		QUANT.	
CHIEF STRUCTURAL ENGR.		DATE	
CHERRY HILL INTERCHANGE	MSE WALL R-359A	SOIL SATA	PROJECT NUMBER
			HDP-9124(003)
DAVIS COUNTY		R-359A DWG. NO.	
SHEET NO.		3 OF 3	



M1 LINE - RIGHT SIDE (R-359B)



- NOTES:**
- ALL UNITS ARE IN METERS UNLESS OTHERWISE NOTED
 - STATIONS & OFFSETS SHOWN ARE TO FINISHED FACE OF WALL
 - THE FINISHED FACE OF WALL CONTAINS APPROXIMATELY 2.048 SQ. METERS

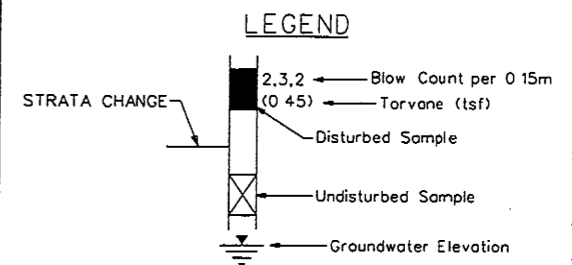
UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION		DESIGN SMP 9/98	CHECK EAR 2/99
APPROVAL RECORD	DATE	DESIGN ENGR.	CHECK SMP 2/99
APPROVED	DATE	CHIEF STRUCTURAL ENGR.	CHECK SMP 2/99
CHERRY HILL INTERCHANGE	REVISIONS		
RETAINING WALL R-359B	NO.	DATE	BY
PLAN AND PROFILE	REMARKS		
PROJECT NUMBER #HDP-9124(1003)			
DAVIS COUNTY			
R-359B			
ORG. NO.			
SHT. 1 OF 3			

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO. 9819.000									
BORING UDOT NO 15		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 5/20/98 TO 5/22/98									
		LOCATION: MILLINE STA. 10+000.0, 35.86m. RIGHT		ELEVATION: 1328.04m									
		DRILL CREW: SIZEMORE, WOOD, GRAHAM		LOGGED BY: [Signature]									
		EQUIP/DRILL METHOD: RIG B-610X											
		DEPTH TO WATER - INITIAL: 4.51m AFTER 24 HOURS: 5.70m											
Elev (m)	Depth (m)	Lithology	Blows Per 0.15m	USCS (AASHTO)	Material Description	Moisture Content %	Dry Density (kN/m ³)	Liquid Limit %	Plasticity Index %	Gravel %	Sand %	Silt/Clay %	Notes
1328.04	0	SM	254	SM	ASPHALTIC CONCRETE								
1325	3	SM	305	SM	SILTY SAND w/ GRAVEL brown, medium, fl								
1320	8	SM	457	SM (A-4(2))	SILTY SAND traces of gravel, probably natural ground, brown, medium	33.1	34	10	13	39	48		
1320	8	CL	457	CL (A-6(B))	SILT TO SILTY CLAY some sand and clay, brown, very loose to medium	30.7	14.78	38	17	0	11	89	VS CT SG
1315	13	CL M	432	CL M (A-4(5))	moderate loss of circulation on occasional thin clay lense	25.3	15.91	26	7	0	11	89	VS CT SG
1310	18	M	559	M	sand lenses								
1310	18	CL M	457	CL M (A-4(3))		26.5	15.55	25	5	0	9	91	UC CT SG
1305	23	M	559	M									
1305	23	M	381	M (A-4(0))	medium	23.3	16.68	22	3	0	15	85	UC CT SG
1300	28	CL M	533	CL M	SILT w/ SAND TO SILTY CLAY sand lenses brown medium	23.7	16.60	25	7	0	6	94	UC CT SG
1300	28	M	533	M	few thin clay lenses								
1300	28	CL	457	CL	LEAN CLAY w/ SILT AND SAND LENSES	25.5	15.92	32	12				UC CT SG
1300	28	SM	406	SM	SILTY SAND few thin lenses of sandy silt, gray, very dense								
1300	28	M	457	M	SILT w/ SAND AND LEAN CLAY LENSES								
1300	28	SM	178	SM	SILTY SAND w/ GRAVEL gray to dark gray silty sand layer								
1295	33	SM		SM	cobble boulder cobbles few cobbles								
1295	33	SM		SM	silty sand layer								

KEY TO DRILLING LOG
 RELATIVE DENSITY (NON-PLASTIC SAND & SILT)
 VERY LOOSE - N LESS THAN 4
 LOOSE - N 4 TO 10
 MEDIUM - N 10 TO 30
 DENSE - N 30 TO 50
 VERY DENSE - N MORE THAN 50

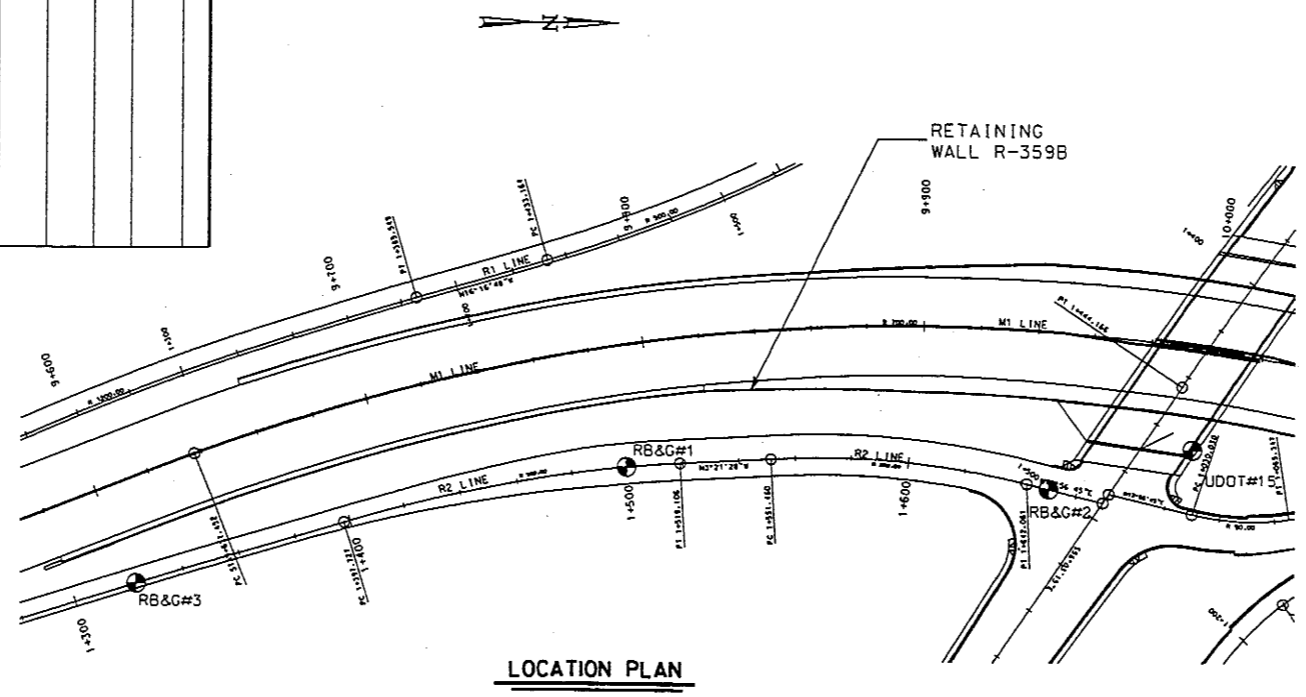
CONSISTENCY (PLASTIC - SILT & CLAY)
 VERY SOFT - N LESS THAN 2
 SOFT - N 2 TO 4
 MEDIUM - N 4 TO 8
 STIFF - N 8 TO 15
 VERY STIFF - N 15 TO 30
 HARD - N MORE THAN 30

[Symbol] TOPSOIL OR FILL	[Symbol] IGNEOUS	[Symbol] SANDY CLAY
[Symbol] GRAVEL	[Symbol] LIMESTONE	[Symbol] CLAYEY SAND
[Symbol] SAND	[Symbol] CONGLOMERATE	[Symbol] SILTY CLAY
[Symbol] SILT	[Symbol] DOLOMITE	[Symbol] CLAYEY SILT
[Symbol] CLAY	[Symbol] SANDSTONE	[Symbol] SILTY SAND
[Symbol] CLAYSTONE	[Symbol] SILTSTONE	[Symbol] SANDY SILT



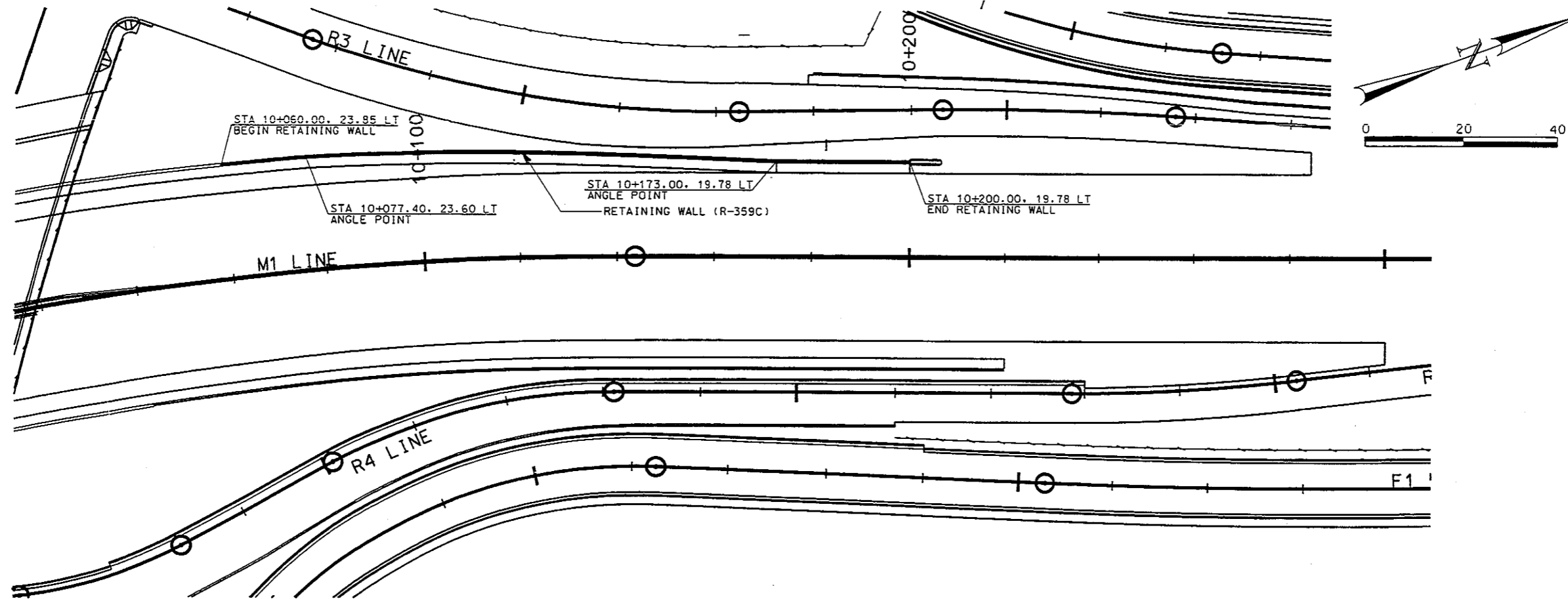
ABBREVIATIONS
 UC = Unconfined Compression test
 CT = Consolidation Test
 SG = Specific Gravity Test
 VS = Vane Shear Test

- GENERAL NOTES**
- THE SUBGRADE SURFACE EXPLORATIONS SHOWN WERE CONDUCTED BETWEEN MAY-20-98 AND MAY-22-98 BY UTAH DEPT. OF TRANSP. AND BETWEEN JULY-20-98 AND JULY-21-98 BY RB&G ENGINEERING.
 - THESE DRILL LOGS REPRESENT A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN EACH 89 mm DIAMETER BORING AND ARE BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGEMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THESE DRILL LOGS MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR.
 - THE WATER LEVELS AND CONDITIONS INDICATED ON THE DRILL LOGS REPRESENT HOLE CONDITIONS ON THE DATE SHOWN, EITHER WITH CASING STILL IN PLACE OR WITH PERFORATED PLASTIC PIPE INSTALLED. IT SHOULD BE NOTED, HOWEVER, THAT AT LOCATIONS AWAY FROM THE TEST HOLES OR AT OTHER TIMES OF THE YEAR THE WATER LEVELS AND CONDITIONS MAY VARY SIGNIFICANTLY.
 - THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND TRANSITION MAY BE GRADUAL.
 - COBBLE - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION BETWEEN 76 mm AND 305 mm.
 - BOULDER - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION OF 305 mm OR MORE.

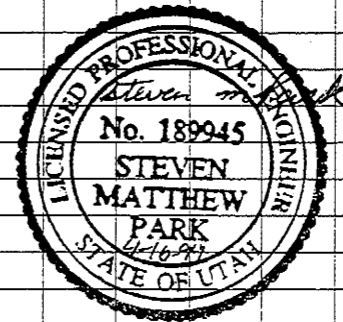
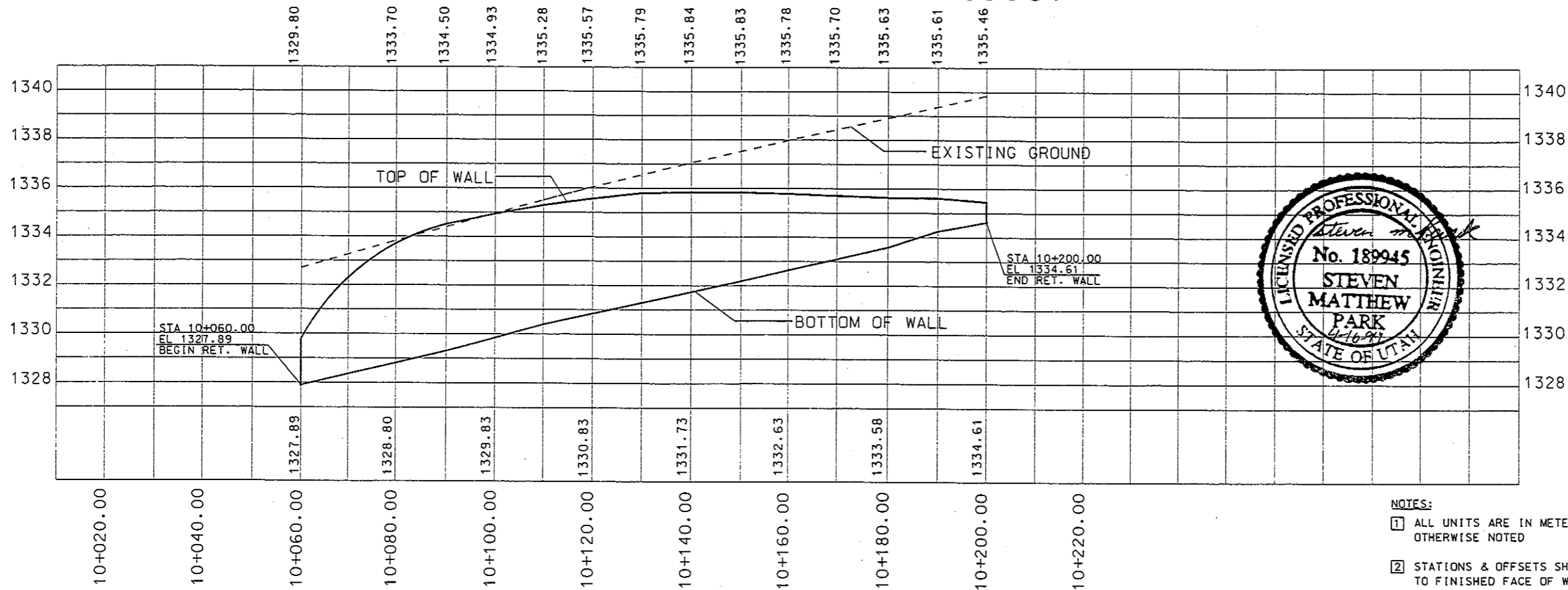


LOCATION PLAN

UTAH DEPARTMENT OF TRANSPORTATION		REGION		STRUCTURES DIVISION	
APPROVAL	RECORD	DATE	DESIGN ENGINEER	DATE	QUANT.
APPROVED	APPROVED	DATE	DATE	DATE	DATE
CHERRY HILL INTERCHANGE		MSE WALL R-359B		SOIL DATA	
DAVIS COUNTY		R-359B		DWG. NO.	
PROJECT NUMBER		HDP-9124(003)		SHEET NO. 2 OF 3	



M1 LINE - LEFT SIDE (R-359C)



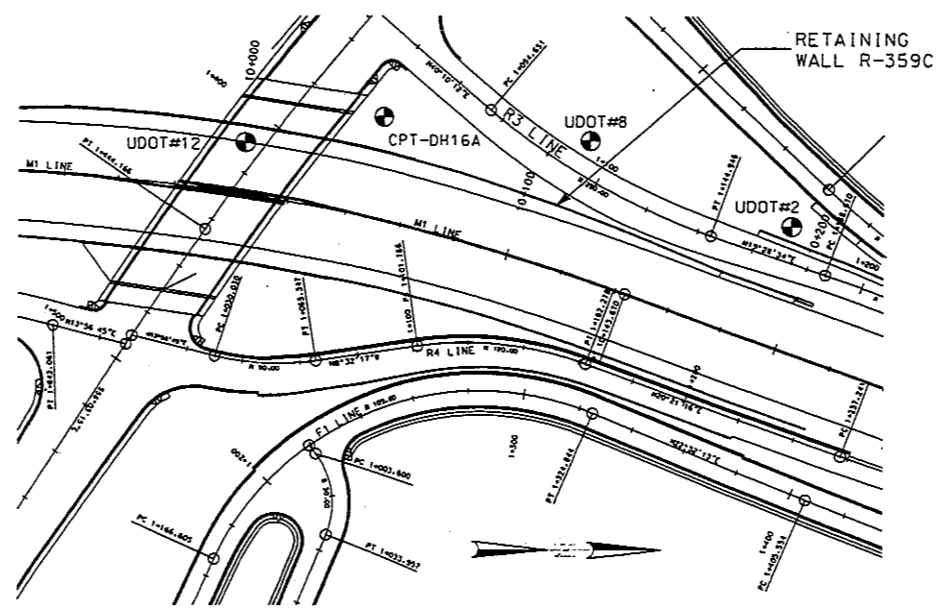
- NOTES:
- ALL UNITS ARE IN METERS UNLESS OTHERWISE NOTED
 - STATIONS & OFFSETS SHOWN ARE TO FINISHED FACE OF WALL
 - THE FINISHED FACE OF WALL CONTAINS APPROXIMATELY 516 SQ. METERS

UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION		DESIGN SMP 9/98	CHECK EAR 2/99
CHERRY HILL INTERCHANGE RETAINING WALL R-359C		DRAWN DJK 9/98	CHECK SMP 2/99
PLAN AND PROFILE		COUNT. EAR 9/98	CHECK SMP 2/99
PROJECT NUMBER #HDP-9124(003)		APPROVAL RECORD	REVISIONS
DAVIS COUNTY		DATE	BY
R-359C		DATE	DATE
DRG. NO.		NO.	NO.
SHT. 1 OF 3			

D:\246R-9124\10-246R-9124.dwg

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: -	
BORING UDOT NO 2		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 10/30/97 TO 10/31/97	
Elev (m)		LOCATION: MI LINE STA. 10+181.42.8m LEFT		ELEVATION: 1338.26m	
Depth (m)		DRILL CREW: SIZEMORE, WORWOOD, GRAHAM		LOGGED BY: -	
Lithology		EQUIP/DRILL METHOD: RIG B-61HDX		DEPTH TO WATER - INITIAL: 3.96m AFTER 24 HOURS: 5.80m	
1	1.3, 6.8	SM (A-2-4)	SILTY SAND II brown to brown, loose	4.8	NA NP 0 70 30
2	2.4, 4.4	ML (A-4)	SILT W/SAND some clay and thin lenses of lean clay, brown, loose	26.5	NA NP 0 18 82
3	2.3, 4.6	ML (A-4(U))	SILT numerous thin to very thin sand lenses, brown, loose to med dense	28.4	25 2 0 9 91
4	5.9, 14	ML (A-4(O))	SANDY SILT Some clay and a few thin lenses of lean clay, brown to gray, med dense to dense	25.2	14.95 24 1 0 12 88 OS
5	4.6, 7.0	ML			
6	5.6, 10.17	ML	ALTERNATING 0.2m THICK SANDY SILT AND LEAN CLAY LAYERS	19.2	16.87
7	10.11, 9.15	ML (A-4)			
8	9.19, 23	CU/ML	few thin clay lenses	27.3	NA NP 0 48 52
9	10.17, 18.24	ML			
10	13.35	VS			

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: -	
BORING UDOT NO 8		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 1/8/98 TO 1/8/98	
Elev (m)		LOCATION: MI LINE STA. 10+115.1.47.53m LEFT		ELEVATION: 1335.49m	
Depth (m)		DRILL CREW: SIZEMORE, WORWOOD, GRAHAM		LOGGED BY: -	
Lithology		EQUIP/DRILL METHOD: RIG B-61HDX		DEPTH TO WATER - INITIAL: - AFTER 24 HOURS: -	
1	1.1, 7.12	SM	SILTY SAND fine, lenses of clay and gravel, brown, loose		
2	4.5, 3.3	SM	SANDY LEAN CLAY brown		
3	1.1, 1.3	CL SM			
4	2.3, 3.7	SM	SILTY SAND some clay, fine, brown, loose to medium		
5	4.6, 12.11	SM			
6	6.16, 18.28	SM	dense		
7	15, 20.22	SM	trace of gravel, dense		
8	4.4, 7.8	SM	some thin sandy silt lenses, medium		

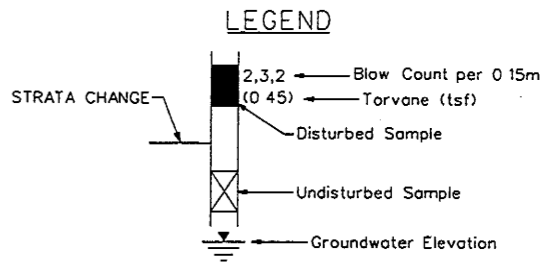
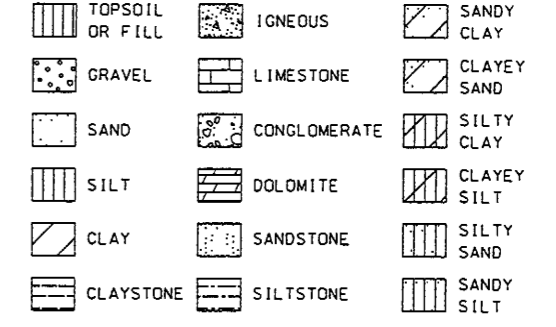


LOCATION PLAN



KEY TO DRILLING LOG
 RELATIVE DENSITY (NON-PLASTIC SAND & SILT)
 VERY LOOSE - N LESS THAN 4
 LOOSE - N 4 TO 10
 MEDIUM - N 10 TO 30
 DENSE - N 30 TO 50
 VERY DENSE - N MORE THAN 50

CONSISTENCY (PLASTIC - SILT & CLAY)
 VERY SOFT - N LESS THAN 2
 SOFT - N 2 TO 4
 MEDIUM - N 4 TO 8
 STIFF - N 8 TO 15
 VERY STIFF - N 15 TO 30
 HARD - N MORE THAN 30



ABBREVIATIONS
 UC = Unconfined Compression test
 CT = Consolidation Test
 SG = Specific Gravity Test
 VS = Vane Shear Test

- GENERAL NOTES**
- THE SUBGRADE SURFACE EXPLORATIONS SHOWN WERE CONDUCTED BETWEEN OCT-30-97 AND JAN-8-98 BY UTAH DEPT. OF TRANSP.
 - THESE DRILL LOGS REPRESENT A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN EACH 89 mm DIAMETER BORING AND ARE BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGEMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THESE DRILL LOGS MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR.
 - THE WATER LEVELS AND CONDITIONS INDICATED ON THE DRILL LOGS REPRESENT HOLE CONDITIONS ON THE DATE SHOWN. EITHER WITH CASING STILL IN PLACE OR WITH PERFORATED PLASTIC PIPE INSTALLED. IT SHOULD BE NOTED, HOWEVER, THAT AT LOCATIONS AWAY FROM THE TEST HOLES OR AT OTHER TIMES OF THE YEAR THE WATER LEVELS AND CONDITIONS MAY VARY SIGNIFICANTLY.
 - THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND TRANSITION MAY BE GRADUAL.
 - COBBLE - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION BETWEEN 76 mm AND 305 mm.
 - BOULDER - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION OF 305 mm OR MORE.

UTAH DEPARTMENT OF TRANSPORTATION		STRUCTURES DIVISION	
CHERRY HILL INTERSECTION	MSE WALL R-359C	SOIL DATA	PROJECT NUMBER: HDP-9124(003)
DAVIS COUNTY	R-359C	DWG. NO.	
APPROVED: [Signature]	DATE: 1/24/98	DESIGN ENGINEER	CHIEF STRUCTURAL ENGR.
CHECK: [Signature]	DATE: 1/24/98	DRAWN	DATE
CHECK: [Signature]	DATE: 1/24/98	BY	REVISIONS
CHECK: [Signature]	DATE: 1/24/98	NO.	

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: 9819.000							
BORING RB&G NO 14		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 8/13/98							
		LOCATION: NE CORNER OF POND, -11.9E, STA 1+378.0, 8m LEFT		ELEVATION: 1330.40m							
		DRILLER: B. HARTLEY		LOGGED BY: M. HANSEN/V.N.B.							
		EQUIP/DRILL METHOD: SIMCO / N.W. CASING		DEPTH TO WATER - INITIAL: 0.0 AFTER 24 HOURS: 0.0							
Elev (m)	Depth (m)	USCS (AASHTO)	Material Description	Moisture Content %	Dry Density (kN/m ³)	Liquid Limit %	Plasticity Index %	Gravel %	Sand %	Silt/Clay %	Other Tests
1330	0	ML	0.5m of water in pond at time of drilling								
	1	GM	SILT AND SAND LAYERS w/ organics, black-brown			41	5	47	33	20	
	2	GM	SILTY CLAYEY GRAVEL w/SAND brown								
	3	ML	SANDY SILT brown	25.7	15.03	36	12				CT SG
	4	ML	CLAY dk brown								
	5	ML	CLAYEY GRAVEL II, brown			30	10	38	22	40	
	6	CL	CLAY w/SILTY SAND LENSES brown								
	7	CL	GRAVELLY CLAY	31.3	13.94	35	16				CT SG
	8	CL									
	9	CL									
	10	CL		23.5	15.56	25	7				CT SG
	11	CL									
	12	CL	CLAY w/SILTY SAND LENSES gray-brown	24.5	15.80	37	19				CT SG
	13	CL									
	14	CL									
	15	CL									
	16	CL		25.3	14.54	30	13				CT SG

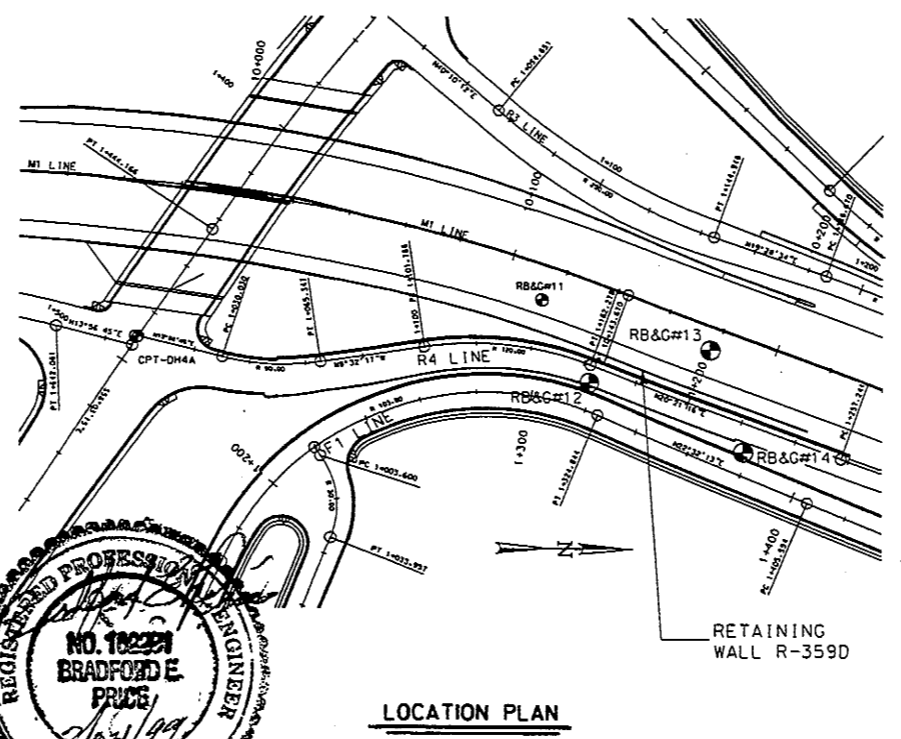
Bottom of hole 16.5m

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: 9819.000							
BORING RB&G NO 11		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 8/10/98							
		LOCATION: SW CORNER OF POND, -11.9E, STA 1+112.0, 13.0m RIGHT		ELEVATION: 1329.51m							
		DRILLER: B. HARTLEY		LOGGED BY: M. HANSEN/V.N.B.							
		EQUIP/DRILL METHOD: SIMCO / N.W. CASING		DEPTH TO WATER - INITIAL: 0.0 AFTER 24 HOURS: 0.0							
Elev (m)	Depth (m)	USCS (AASHTO)	Material Description	Moisture Content %	Dry Density (kN/m ³)	Liquid Limit %	Plasticity Index %	Gravel %	Sand %	Silt/Clay %	Other Tests
1325	0	OH SM	2.0m of water in pond at time and location of drilling								
	1	SM	ORGANIC CLAY block spoon sink 0.6m w/weight								
	2	CL	SILTY SAND gray	33.7		53	28	0	8	92	
	3	CL	SANDY CLAY brown								
	4	SM	SILTY SAND trace of gravel, lt gray								
	5	SC									
	6	CL	SILTY CLAYEY SAND	21.2							
	7	CL									
	8	CL		21.2		32	13				
	9	CL									
	10	CL									
	11	CL	SANDY SILTY CLAY w/SILT AND SAND LENSES lt. gray-brown, interbedded lenses of clay and silty sand	25.8	14.98	33	13				CT SG
	12	CL									
	13	CL									
	14	CL		26.6	15.09	34	14				CT SG

Bottom of hole 14.7m

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: 9819.000							
BORING RB&G NO 13		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 8/12/98							
		LOCATION: NW SIDE OF POND, -11.9E, STA 1+178.0, 8m RIGHT		ELEVATION: 1330.11m							
		DRILLER: B. HARTLEY		LOGGED BY: M. HANSEN/V.N.B.							
		EQUIP/DRILL METHOD: SIMCO / N.W. CASING		DEPTH TO WATER - INITIAL: 0.0 AFTER 24 HOURS: 0.0							
Elev (m)	Depth (m)	USCS (AASHTO)	Material Description	Moisture Content %	Dry Density (kN/m ³)	Liquid Limit %	Plasticity Index %	Gravel %	Sand %	Silt/Clay %	Other Tests
1330	0	SM	1.0m of water in pond at time of drilling								
	1	SM									
	2	SM									
	3	SM	SILTY SAND fine grained, some gravel, gray-brown			22	3	2	58	40	
	4	SM									
	5	SM									
	6	SM									
	7	SM	w/gravel, denser								
	8	SM									
	9	SM									
	10	CL		25.3	15.06	31	11	0	16	84	CT SG
	11	CL									
	12	CL	SANDY CLAY w/SAND LENSES gray-brown, interbedded lenses of silty clay and silty sand								
	13	CL									
	14	CL		25.5	15.75	27	9	0	12	88	CT SG
	15	CL									

Bottom of hole 15.4m

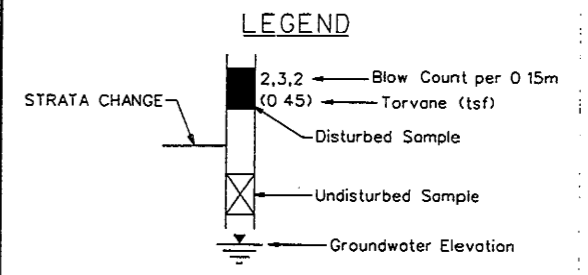


KEY TO DRILLING LOG
 RELATIVE DENSITY (NON-PLASTIC SAND & SILT)
 VERY LOOSE - N LESS THAN 4
 LOOSE - N 4 TO 10
 MEDIUM - N 10 TO 30
 DENSE - N 30 TO 50
 VERY DENSE - N MORE THAN 50

CONSISTENCY (PLASTIC - SILT & CLAY)
 VERY SOFT - N LESS THAN 2
 SOFT - N 2 TO 4
 MEDIUM - N 4 TO 8
 STIFF - N 8 TO 15
 VERY STIFF - N 15 TO 30
 HARD - N MORE THAN 30

LEGEND

[Symbol]	TOPSOIL OR FILL	[Symbol]	IGNEOUS	[Symbol]	SANDY CLAY
[Symbol]	GRAVEL	[Symbol]	LIMESTONE	[Symbol]	CLAYEY SAND
[Symbol]	SAND	[Symbol]	CONGLOMERATE	[Symbol]	SILTY CLAY
[Symbol]	SILT	[Symbol]	DOLOMITE	[Symbol]	CLAYEY SILT
[Symbol]	CLAY	[Symbol]	SANDSTONE	[Symbol]	SILTY SAND
[Symbol]	CLAYSTONE	[Symbol]	SILTSTONE	[Symbol]	SANDY SILT



ABBREVIATIONS
 UC = Unconfined Compression test
 CT = Consolidation Test
 SG = Specific Gravity Test
 VS = Vane Shear Test

GENERAL NOTES

- THE SUBGRADE SURFACE EXPLORATIONS SHOWN WERE CONDUCTED BETWEEN AUG-10-98 AND AUG-13-98 BY RB&G ENGINEERING.
- THESE DRILL LOGS REPRESENT A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN EACH 89 mm DIAMETER BORING AND ARE BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGEMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THESE DRILL LOGS MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR.
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- COBBLE - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION BETWEEN 76 mm AND 305 mm.
- BOULDER - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION OF 305 mm OR MORE.

UTAH DEPARTMENT OF TRANSPORTATION
 REGION STRUCTURES DIVISION
 CHERRY HILL INTERCHANGE
 MSE WALL R-359D
 SOIL DATA
 PROJECT NUMBER: HDP-9124(003)
 DAVIS COUNTY
 R-359D
 DWG. NO.
 SHEET NO. 2 OF 3

APPROVED: [Signature] DATE: [Date]
 CHECKED: [Signature] DATE: [Date]
 DRAWN: [Signature] DATE: [Date]
 DESIGN ENGINEER: [Signature] DATE: [Date]
 CHIEF STRUCTURAL ENGR. DATE: [Date]

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: 9819.000							
BORING RB&G NO 12		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 8/11/98							
		LOCATION: SE SIDE OF POND - R4 LINE, STA. 1+164.0, 6.0m RIGHT		ELEVATION: 1329.37m							
		DRILLER: B. HARTLEY		LOGGED BY: M. HANSEN/V.N.B.							
		EQUIP / DRILL METHOD: SIMCO / N.W. CASING									
		DEPTH TO WATER - INITIAL: 0.0		AFTER 24 HOURS: 0.0							
Elev (m)	Depth (m)	USCS (AASHTO)	Material Description	Moisture Content %	Dry Density (g/cm ³)	Liquid Limit %	Plasticity Index %	Gravel %	Sand %	Silt/Clay %	Other Tests
	0	SM	5m of water in pond at time of drilling								
	1	CH	SANDY SILT organic, black	58.0	10.23	63	34				CI SG
	5	OH	SILTY CLAY black to gray-brown								
	2	SM	SILTY SAND black to dk. gray					30	56	14	
	3	CL	SILTY CLAY dk. gray								
	4	CL	CLAY brown								CI SG
	5	CL	CLAY brown	37.8	12.89	42	16				CI SG
	6	SM	SILTY SAND gray-brown								
	7	CL	CLAY								
	8	CL	CLAY								
	9	CL	CLAY	23.7	15.07	29	12				CI SG
	10	CL	CLAY								
	11	CL	CLAY w/SILTY SAND LENSES gray-brown, interbedded lenses of clay and silty sand w/silty sand layers	24.6	15.31	30	12				CI SG
	12	CL	CLAY								
	13	CL	CLAY								
	14	CL	CLAY								
	15	CL	CLAY								
	16	CL	CLAY								
	17	CL	CLAY								
	18	CL	CLAY w/SILTY SAND LENSES gray-brown								
	19	CL	CLAY								
	20	CL	CLAY								
	21	CL	CLAY								

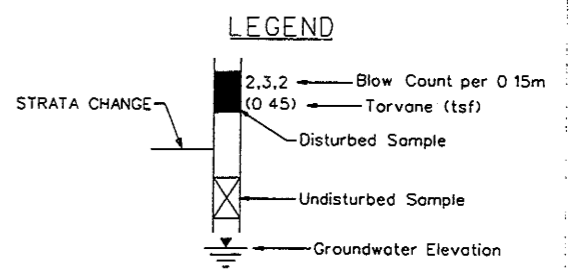
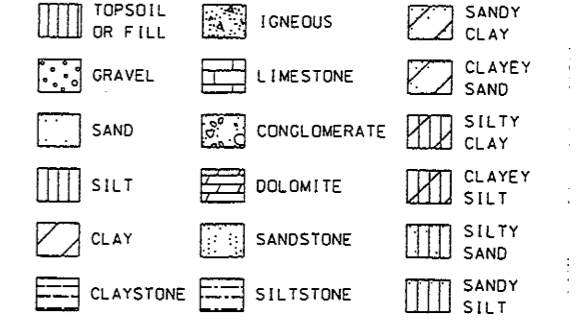
Bottom of hole 21.3m

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: 9819.000							
BORING NO CPT-DH4A		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 2/3/99							
		LOCATION: CL LINE, STA. 1+487.2, 2.38m LEFT		ELEVATION: 1327.0m							
		DRILLER: B. HARTLEY		LOGGED BY: M. STILSON							
		EQUIP / DRILL METHOD: CME-55 / N.W. CASING									
		DEPTH TO WATER - INITIAL: 4.97m		AFTER 24 HOURS: 5.00m, 5.03m							
Elev (m)	Depth (m)	USCS (AASHTO)	Material Description	Moisture Content %	Dry Density (g/cm ³)	Liquid Limit %	Plasticity Index %	Gravel %	Sand %	Silt/Clay %	Other Tests
	1	CL	INTERBEDDED SILT, SAND AND CLAY								
	2	CL/SC	LEAN CLAY gray, little fine gravel	32.3							
	3	SM	brown to dk. brown, moist, fine, 25" silt lenses, possible fill	8.54							
	4	SM/ML	INTERBEDDED SILTY SAND AND SANDY SILT dk. brown, moist	4.22							
	5	ML	lt. brown, wet, rust coloring, laminated	1.12							
	6	SM/ML	5" SM, 10" ML, tan, wet, rust coloring, possible organic inclusion, fine	1.21							
	7	SM/ML	disturbed sample	2.59							
	8	SM	tan, wet, fine	4.25							
	9	SM	SILTY SAND tan, wet, fairly homogeneous, 1" clay lenses, rust coloring	5.54							
	10	SM	gray	3.13							
	11	SM	gray	3.22							
	12	ML	SANDY SILT brown, wet, low plasticity	4.35							
	13	ML	SANDY SILT brown, wet, low plasticity	4.35							
	14	SM	SILTY SAND brown, fine grained, 25" silt lenses every 1'-2" fewer silt lenses	6.80							
	15	SM	SILTY SAND brown, fine grained, 25" silt lenses every 1'-2" fewer silt lenses	7.67							
	16	CL	LEAN CLAY gray, wet, med plasticity	3.34							
	17	CL	LEAN CLAY gray, wet, med plasticity	4.80							

Bottom of hole 18.1m

KEY TO DRILLING LOG
 RELATIVE DENSITY (NON-PLASTIC SAND & SILT)
 VERY LOOSE - N LESS THAN 4
 LOOSE - N 4 TO 10
 MEDIUM - N 10 TO 30
 DENSE - N 30 TO 50
 VERY DENSE - N MORE THAN 50

CONSISTENCY (PLASTIC - SILT & CLAY)
 VERY SOFT - N LESS THAN 2
 SOFT - N 2 TO 4
 MEDIUM - N 4 TO 8
 STIFF - N 8 TO 15
 VERY STIFF - N 15 TO 30
 HARD - N MORE THAN 30

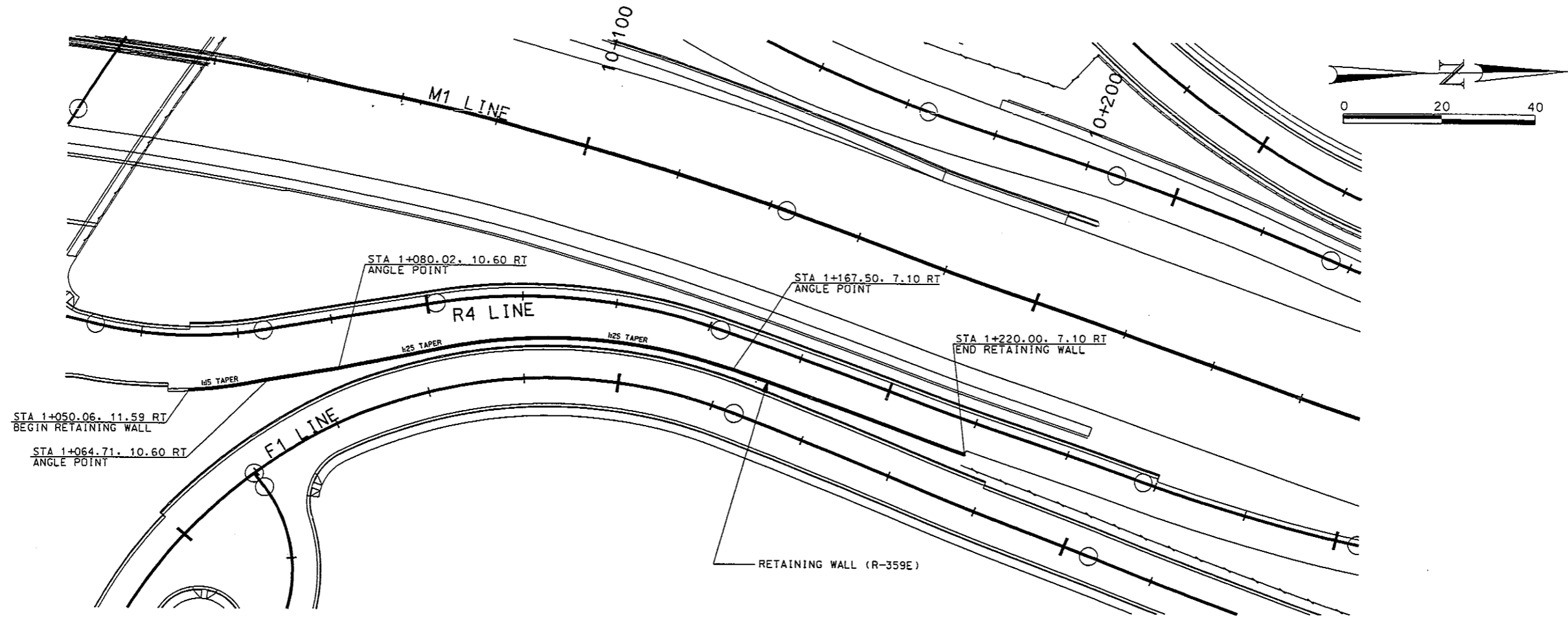


ABBREVIATIONS
 UC = Unconfined Compression test
 CT = Consolidation Test
 SG = Specific Gravity Test
 VS = Vane Shear Test
 HY = Hydrometer Test

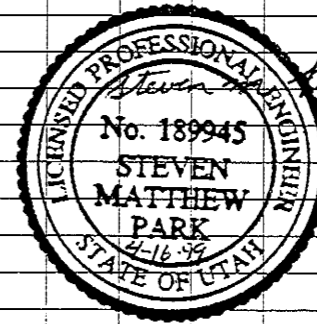
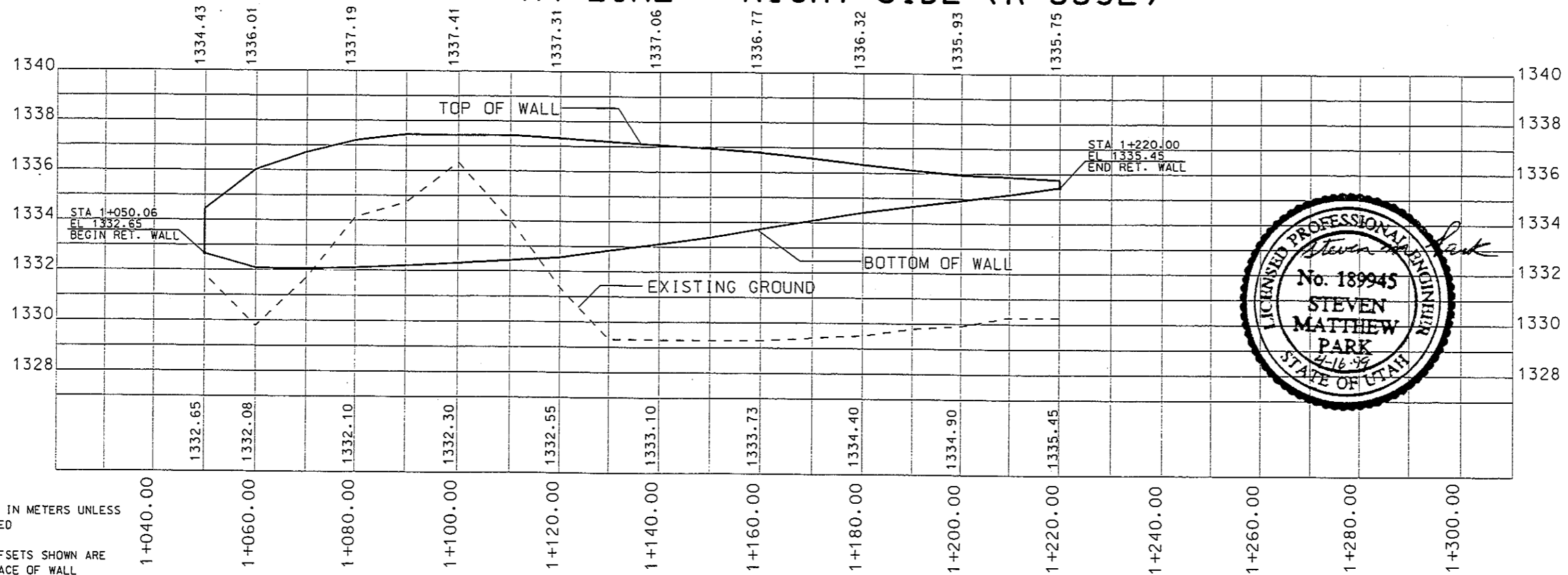
- GENERAL NOTES**
- THE SUBGRADE SURFACE EXPLORATIONS SHOWN WERE CONDUCTED BETWEEN AUG-10-98 AND AUG-13-98 BY RB&G ENGINEERING.
 - THESE DRILL LOGS REPRESENT A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN EACH 89 mm DIAMETER BORING AND ARE BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGEMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THESE DRILL LOGS MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR.
 - THE WATER LEVELS AND CONDITIONS INDICATED ON THE DRILL LOGS REPRESENT HOLE CONDITIONS ON THE DATE SHOWN. EITHER WITH CASING STILL IN PLACE OR WITH PERFORATED PLASTIC PIPE INSTALLED. IT SHOULD BE NOTED, HOWEVER, THAT AT LOCATIONS AWAY FROM THE TEST HOLES OR AT OTHER TIMES OF THE YEAR THE WATER LEVELS AND CONDITIONS MAY VARY SIGNIFICANTLY.
 - THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND TRANSITION MAY BE GRADUAL.
 - COBBLE - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION BETWEEN 76 mm AND 305 mm.
 - BOULDER - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION OF 305 mm OR MORE.



UTAH DEPARTMENT OF TRANSPORTATION		REGION		STRUCTURES DIVISION	
CHERRY HILL INTERCHANGE		MSE WALL R-359D		SOIL DATA	
PROJECT NUMBER		DATE		CHIEF STRUCTURAL ENGR.	
DAVIS COUNTY		R-359D		DWG. NO.	
SHEET NO.		3 OF		3	



R4 LINE - RIGHT SIDE (R-359E)



NOTES:

- 1 ALL UNITS ARE IN METERS UNLESS OTHERWISE NOTED
- 2 STATIONS & OFFSETS SHOWN ARE TO FINISHED FACE OF WALL
- 3 THE FINISHED FACE OF WALL CONTAINS APPROXIMATELY 571SQ. METERS

UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION		DESIGN: SMP 9/98	CHECK: EAR 2/99	REVISIONS
CHERRY HILL INTERCHANGE RETAINING WALL R-359E		DRAWN: DJK 9/98	CHECK: SMP 2/99	NO.
PLAN AND PROFILE		DATE: _____	CHECK: SMP 2/99	BY
PROJECT NUMBER #HDP-9124(003)		APPROVED: _____	CHECK: SMP 2/99	DATE
DAVIS COUNTY		DATE: _____	CHECK: SMP 2/99	REMARKS
R-359E		DATE: _____	CHECK: SMP 2/99	
DRG. NO.		DATE: _____	CHECK: SMP 2/99	
SHT. 1 OF 2		DATE: _____	CHECK: SMP 2/99	

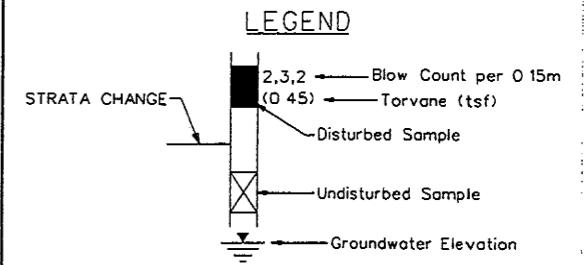
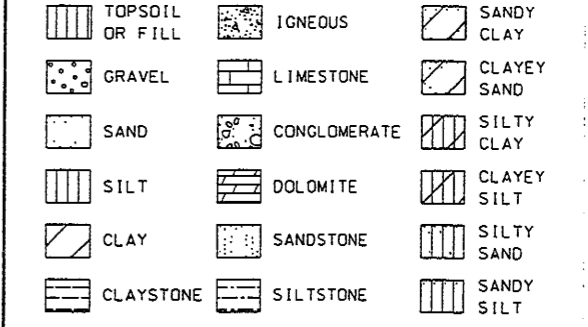
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 10/21/99

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: 9819.000								
BORING RB&G NO 12		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 8/11/98								
EQUIP / DRILL METHOD: SIMCO / N.W. CASING		LOCATION: SE SIDE OF POND, R4 LINE, STA 1+84.0, 5.0m RIGHT		ELEVATION: 1329.37m								
DEPTH TO WATER - INITIAL: 0.0 AFTER 24 HOURS: 0.0		DRILLER: B. HARTLEY		LOGGED BY: M. HANSEN/V.N.B.								
Elev (m)	Depth (m)	USCS (AASHTO)	Material Description	Moisture Content %	Dry Density (kg/m ³)	Liquid Limit %	Plasticity Index %	Gradation	Alter.	Blow Count	Penetration	Other Tests
1329.37	0.0	SM	1.9m of water in pond at time of drilling									
	1.1	CH	SANDY SILT organic, black	58.0	10.23	63	34					CT SG
	2.2	SM	SILTY CLAY black to gray-brown				NP	30 56 14				CT SG
	3.3	CL	SILTY SAND black to dk. gray									CT SG
	4.4	CL	SILTY CLAY dk. gray									CT SG
	5.5	CL	CLAY brown	37.8	12.89	42	18					CT SG
	6.6	SM	SILTY SAND gray-brown									CT SG
	7.7	CL	CLAY w/SILTY SAND LENSES gray-brown, interbedded lenses of clay and silty sand w/silty sand layers	23.7	16.07	29	12					CT SG
	8.8	CL	CLAY w/SILTY SAND LENSES gray-brown	24.6	15.31	30	12					CT SG
	9.9	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	10.0	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	11.1	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	12.2	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	13.3	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	14.4	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	15.5	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	16.6	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	17.7	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	18.8	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	19.9	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	20.0	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	21.1	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	22.2	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: 9819.000								
BORING RB&G NO 14		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 8/13/98								
EQUIP / DRILL METHOD: SIMCO / N.W. CASING		LOCATION: NE CORNER OF POND, R4 LINE, STA 1+378.0, 5m LEFT		ELEVATION: 1320.40m								
DEPTH TO WATER - INITIAL: 0.0 AFTER 24 HOURS: 0.0		DRILLER: B. HARTLEY		LOGGED BY: M. HANSEN/V.N.B.								
Elev (m)	Depth (m)	USCS (AASHTO)	Material Description	Moisture Content %	Dry Density (kg/m ³)	Liquid Limit %	Plasticity Index %	Gradation	Alter.	Blow Count	Penetration	Other Tests
1320.40	0.0	ML	0.5m of water in pond at time of drilling									
	1.1	CC-GM	SILT AND SAND LAYERS w/organics, black-brown									
	2.2	GM	SILTY CLAYEY GRAVEL w/SAND brown									
	3.3	ML	SANDY SILT brown	25.7	15.03	36	12					CT SG
	4.4	ML	CLAY dk. brown									CT SG
	5.5	CC	CLAYEY GRAVEL II, brown									CT SG
	6.6	CL	CLAY w/SILTY SAND LENSES brown	31.3	13.94	35	16					CT SG
	7.7	CL	GRAVELLY CLAY									CT SG
	8.8	CL	CLAY w/SILTY SAND LENSES gray-brown	23.5	15.56	25	7					CT SG
	9.9	CL	CLAY w/SILTY SAND LENSES gray-brown	24.5	15.80	37	19					CT SG
	10.0	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	11.1	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	12.2	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	13.3	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	14.4	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	15.5	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG
	16.6	CL	CLAY w/SILTY SAND LENSES gray-brown									CT SG

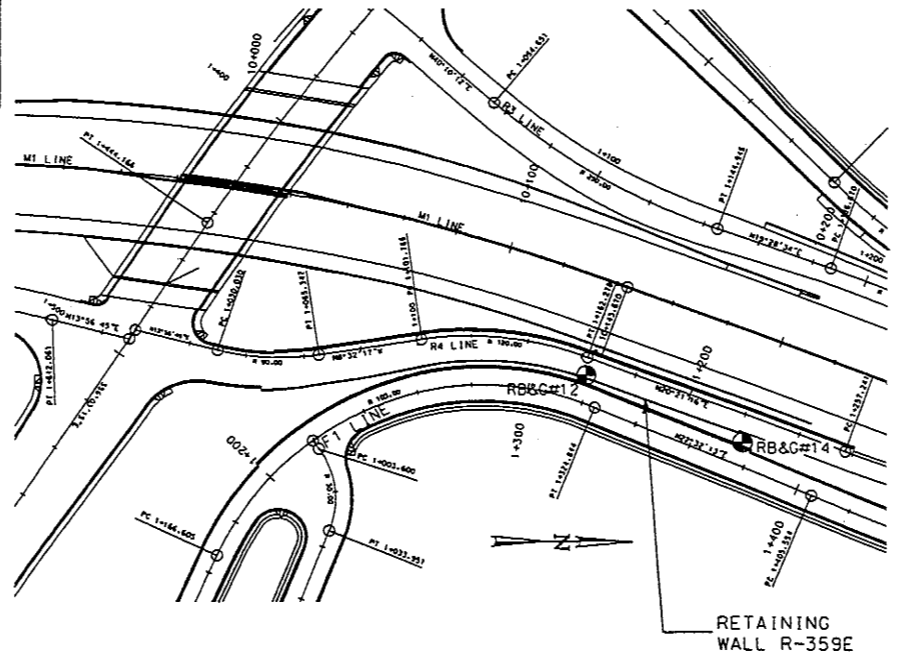
KEY TO DRILLING LOG
 RELATIVE DENSITY (NON-PLASTIC SAND & SILT)
 VERY LOOSE - N LESS THAN 4
 LOOSE - N 4 TO 10
 MEDIUM - N 10 TO 30
 DENSE - N 30 TO 50
 VERY DENSE - N MORE THAN 50

CONSISTENCY (PLASTIC - SILT & CLAY)
 VERY SOFT - N LESS THAN 2
 SOFT - N 2 TO 4
 MEDIUM - N 4 TO 8
 STIFF - N 8 TO 15
 VERY STIFF - N 15 TO 30
 HARD - N MORE THAN 30



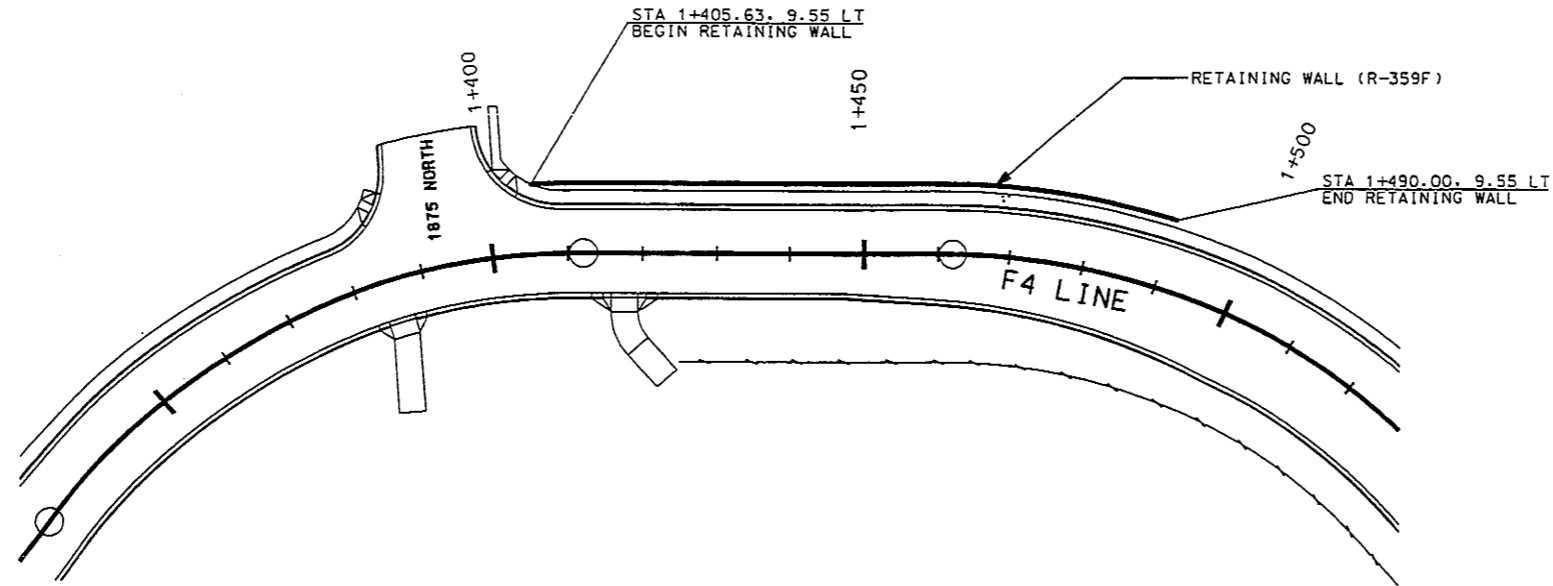
ABBREVIATIONS
 UC = Unconfined Compression test
 CT = Consolidation Test
 SG = Specific Gravity Test
 VS = Vane Shear Test

- GENERAL NOTES**
- THE SUBGRADE SURFACE EXPLORATIONS SHOWN WERE CONDUCTED BETWEEN AUG-11-98 AND AUG-13-98 BY RB&G ENGINEERING.
 - THESE DRILL LOGS REPRESENT A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN EACH 89 mm DIAMETER BORING AND ARE BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGEMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THESE DRILL LOGS MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR.
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 - COBBLE - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION BETWEEN 76 mm AND 305 mm.
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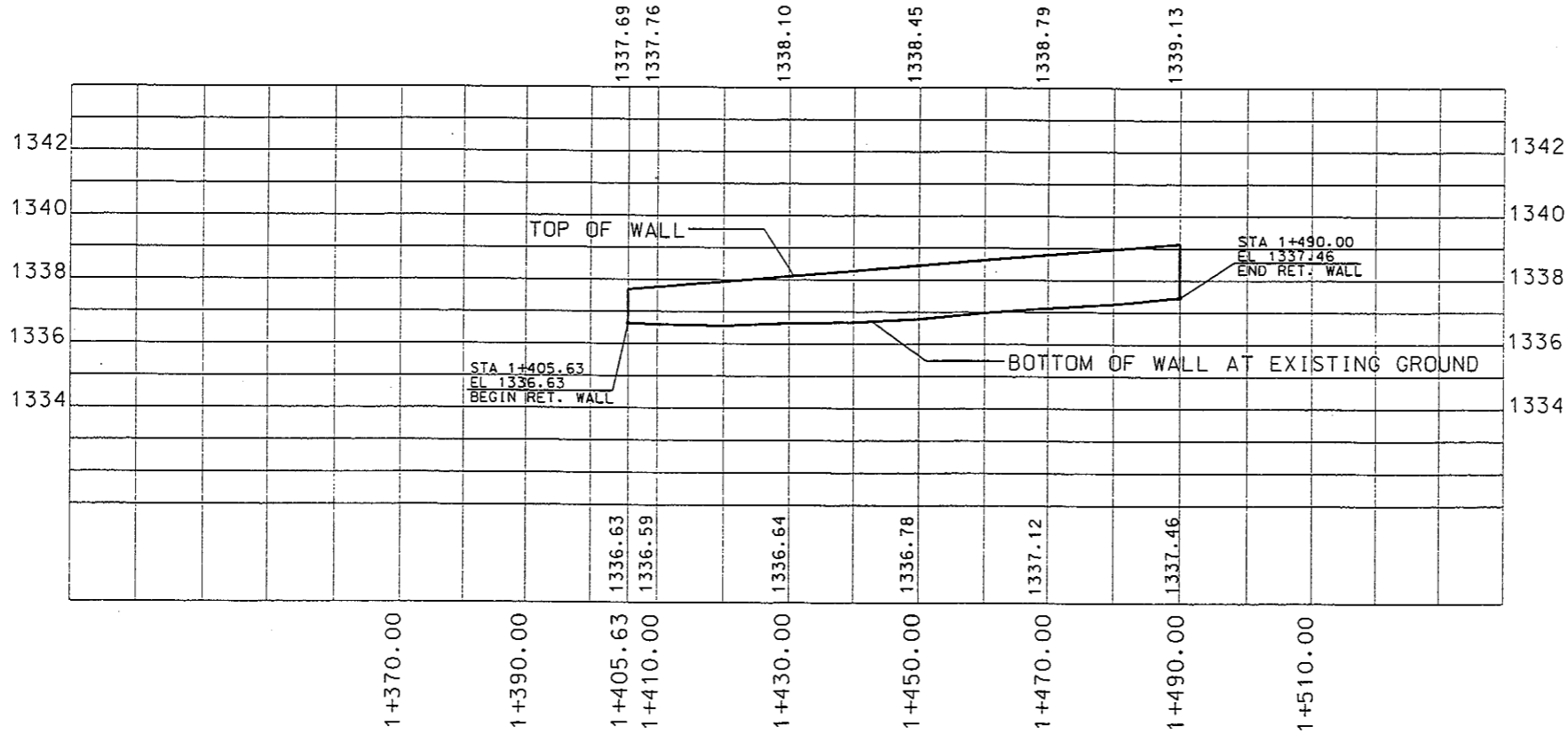


LOCATION PLAN

UTAH DEPARTMENT OF TRANSPORTATION	REGION	STRUCTURES DIVISION	CHECK	CHECK	CHECK
CHERRY HILL INTERCHANGE	MSE WALL R-359E	SOIL DATA	APPROVED	DATE	QUANT.
PROJECT NUMBER	HDP-9124(003)	DAVIS COUNTY	R-359E	DWG. NO.	



F4 LINE - LEFT SIDE (R-359F)



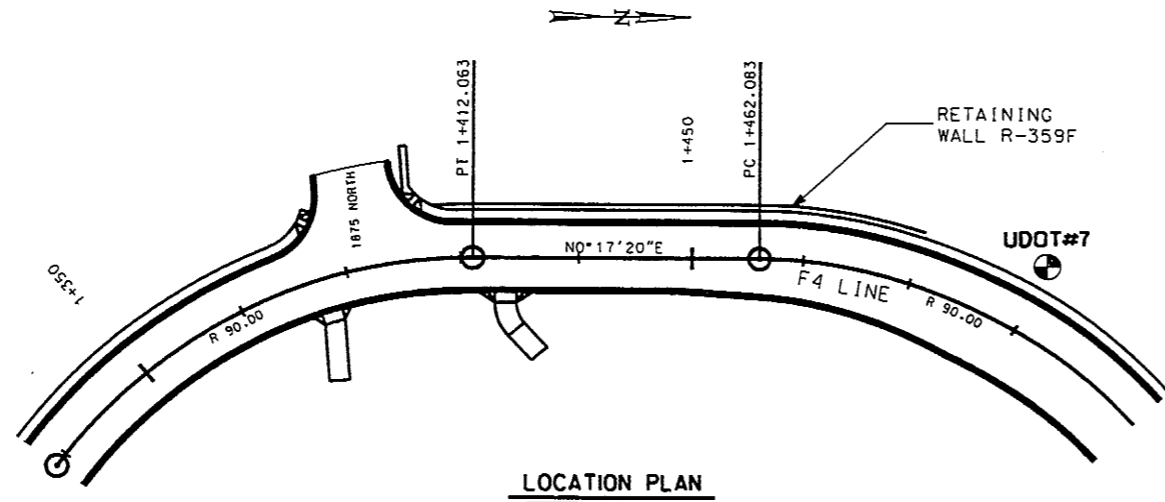
NOTES:

- 1 ALL UNITS ARE IN METERS UNLESS OTHERWISE NOTED
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- 3 THE FINISHED FACE OF WALL CONTAINS APPROXIMATELY 129 SQ. METERS



UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION		DESIGN SMP 10/98 DRAWN DJK 10/98 QUANT. EAR 10/98	CHECK EAR 2/99 CHECK SMP 2/99 CHECK SMP 2/99	REVISIONS
CHERRY HILL INTERCHANGE RETAINING WALL R-359F	PLAN AND PROFILE	APPROVAL RECORD DATE _____ DESIGN ENGR. _____ DATE _____ CHIEF STRUCTURAL ENGR. _____	BY _____ DATE _____ NO. _____	
PROJECT NUMBER #HDP-9124(003)		DAVIS COUNTY		
R-359F DRG. NO.		SHT. 1 OF 2		

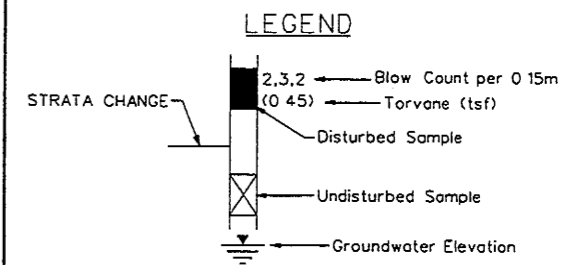
DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: -					
BORING UDOT NO 7		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 12/3/97 TO 12/3/97					
		LOCATION: M.I. LINE, STA. 10+055.0, 251.86m LEFT		ELEVATION: 1338.10m					
		DRILL CREW: SIZEMORE, WORWOOD, GRAHAM		LOGGED BY: -					
		EQUIP / DRILL METHOD: RIG R-61 HDX							
		DEPTH TO WATER - INITIAL: -		AFTER 24 HOURS: -					
Elev (m)	Depth (m)	LITHO	USCS (AASHTO)	Material Description	Atter.		Gradation		Other Tests
					Moisture Content, %	Dry Density (kN/m ³)	Gravel %	Sand %	
1335	1	152	3,4 4,4	SM	SILTY SAND brown, loose, fl, trace gravel				
1330	2	457	5,8,11,16	ML	SANDY SILT brown medium, some clay				
1335	3	457	4,6,9,11	ML					
1330	4	457	4,5,8,11	ML					
1330	5	457	4,3,7,7	SM	SILTY SAND trace of clay, brown, loose to medium, some sandy silt				
1330	6	483	5,5,7,9	SM					
1330	7	559	4,3,5,7	SM	SANDY SILT some clay, brown and some gray, loose				
1330	8	508	4,3,5,4	ML					



KEY TO DRILLING LOG
 RELATIVE DENSITY (NON-PLASTIC SAND & SILT)
 VERY LOOSE - N LESS THAN 4
 LOOSE - N 4 TO 10
 MEDIUM - N 10 TO 30
 DENSE - N 30 TO 50
 VERY DENSE - N MORE THAN 50

CONSISTENCY (PLASTIC - SILT & CLAY)
 VERY SOFT - N LESS THAN 2
 SOFT - N 2 TO 4
 MEDIUM - N 4 TO 8
 STIFF - N 8 TO 15
 VERY STIFF - N 15 TO 30
 HARD - N MORE THAN 30

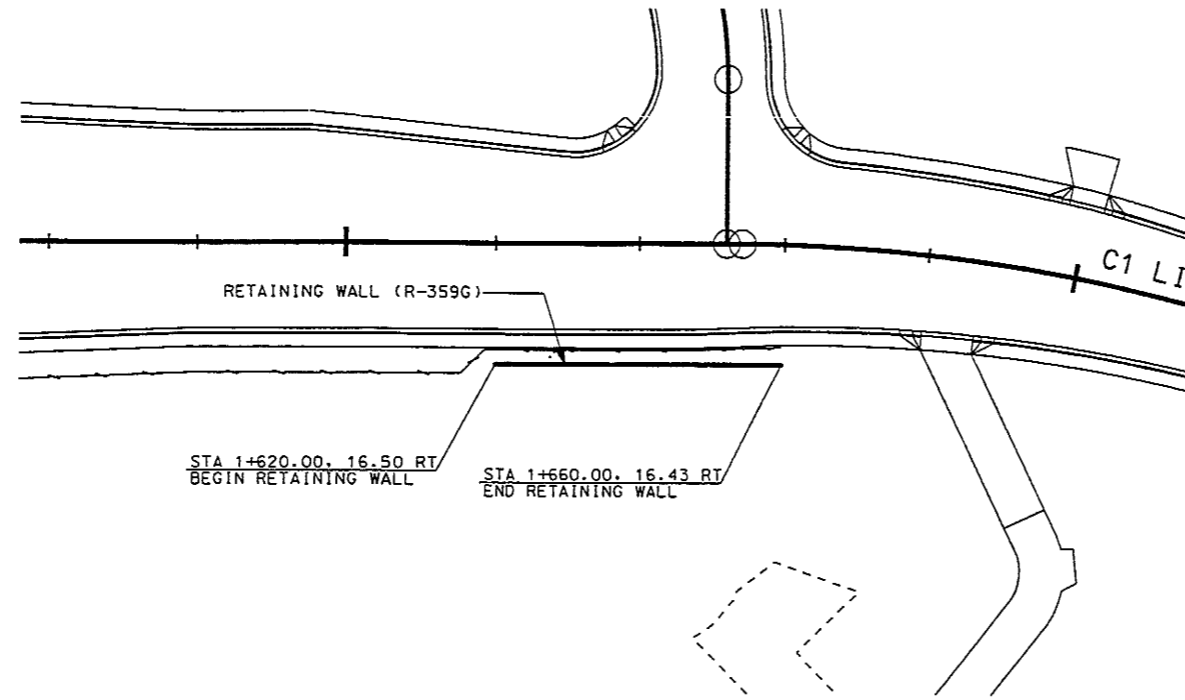
- | | | |
|-----------------|--------------|-------------|
| TOPSOIL OR FILL | IGNEOUS | SILTY SAND |
| GRAVEL | LIMESTONE | CLAYEY SAND |
| SAND | CONGLOMERATE | SILTY CLAY |
| SILT | DOLOMITE | CLAYEY SILT |
| CLAY | SANDSTONE | SILTY SAND |
| CLAYSTONE | SILTSTONE | SANDY SILT |



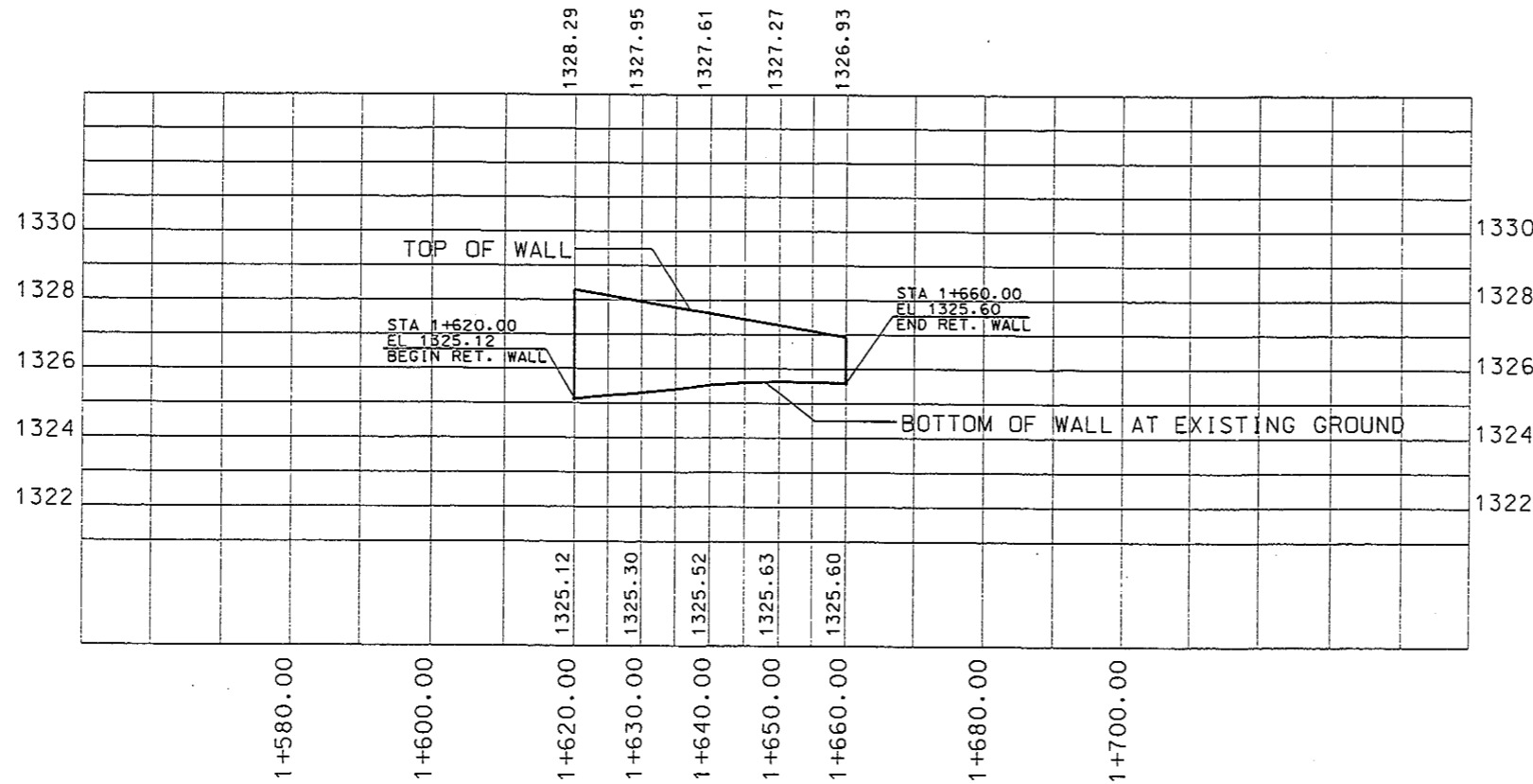
ABBREVIATIONS
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 SG = Specific Gravity Test
 VS = Vane Shear Test

- GENERAL NOTES**
1. THE SUBGRADE SURFACE EXPLORATION SHOWN WAS CONDUCTED ON DEC-3-97 BY UTAH DEPT. OF TRANSP.
 2. THESE DRILL LOGS REPRESENT A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN EACH 89 mm DIAMETER BORING AND ARE BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGEMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THESE DRILL LOGS MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR.
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 5. COBBLE - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION BETWEEN 76 mm AND 305 mm.
 6. BOULDER - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION OF 305 mm OR MORE.

UTAH DEPARTMENT OF TRANSPORTATION		STRUCTURES DIVISION	
REGION		DESIGN	
CHERRY HILL INTERCHANGE		MSE WALL R-359F	
SOIL DATA		PROJECT NUMBER	
DAVIS COUNTY		R-359F	
DWG. NO.		HDP-9124(003)	
APPROVED	DATE	CHECK	DATE
<i>Bradford E. Price</i>	12/3/97		
REGISTERED PROFESSIONAL ENGINEER			
NO. 102294			
BRADFORD E. PRICE			
STATE OF UTAH			

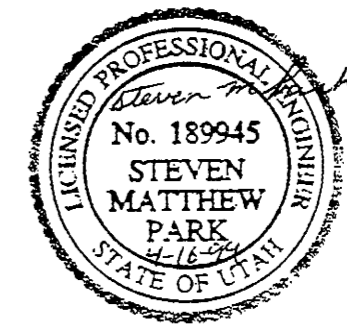


C1 LINE - RIGHT SIDE (R-359G)



NOTES:

- 1 ALL UNITS ARE IN METERS UNLESS OTHERWISE NOTED
- 2 STATIONS & OFFSETS SHOWN ARE TO FINISHED FACE OF WALL
- 3 THE FINISHED FACE OF WALL CONTAINS APPROXIMATELY 86 SQ. METERS

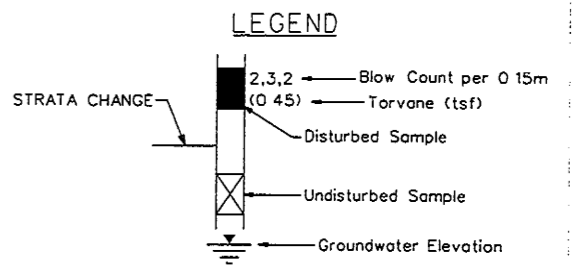
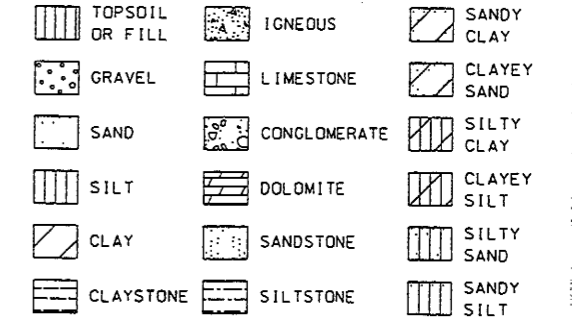


UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION		DESIGN SMP 11/98	CHECK EAR 2/99	REVISIONS
APPROVAL RECORD	DATE	DESIGN ENGR.	CHECK SMP 2/99	
APPROVED	DATE	CHIEF STRUCTURAL ENGR.	CHECK SMP 2/99	
CHERRY HILL INTERCHANGE	RETAINING WALL R-359G	PLAN AND PROFILE		NO.
PROJECT NUMBER #HDP-9124(003)				DATE
DAVIS COUNTY				BY
R-359G				
DRG. NO.				
SHT. 1 OF 2				

DRILL HOLE LOG		PROJECT: CHERRY HILL INTERCHANGE		PROJECT NO: -					
BORING UDOT NO 9		CLIENT: UTAH DEPT. OF TRANSPORTATION		DATE: 1/30/98 TO 1/30/98					
		LOCATION: M1 LINE, STA. 9+814.1, 143.2m RIGHT		ELEVATION: 1323.63m					
		DRILL CREW: SIZEMORE, WORWOOD, GRAHAM		LOGGED BY: -					
		EQUIP / DRILL METHOD: RIG B-61 HDX							
		DEPTH TO WATER - INITIAL: - N.M.		AFTER 24 HOURS: - 3.28m					
Elev (m)	Depth (m)	USCS	Material Description	Moisture Content %	Dry Density Mg/m ³	Liquid Limit %	Plasticity Index %	Gradation	Other Tests
1320	1	SM	some gravel SILTY SAND traces of clay and gravel, brown to dk brown, medium, fb						
	2	SM	some gravel SILTY SAND w/ GRAVEL gray-brown, loose						
	3	SM							
	4	SM							
	5	SM							
	6	SM	traces of lean clay and gravel SILTY SAND some gravel, gray						
	7	SM	traces of gravel, couple of thin lean clay lenses, very loose						
	8	SM	medium						
	9	SM	traces of clay and gravel						
	10	SM	loose						
	11	SM	fine, gray-brown traces of gravel and lean clay						
	12		Bottom of hole 12.2m						

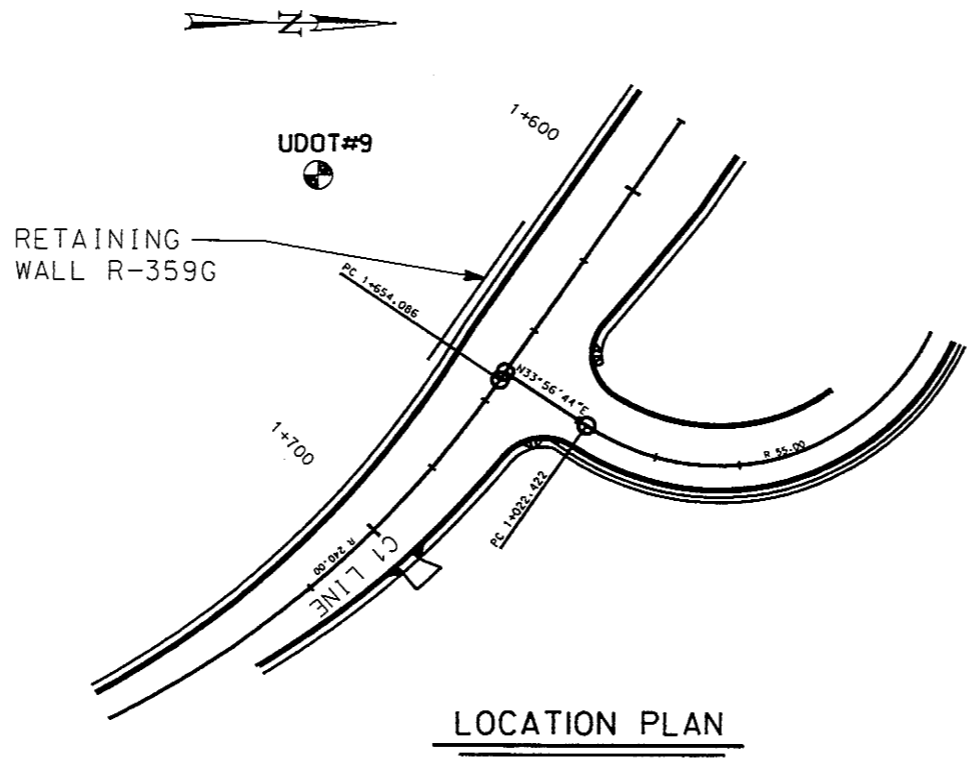
KEY TO DRILLING LOG
 RELATIVE DENSITY (NON-PLASTIC SAND & SILT)
 VERY LOOSE - N LESS THAN 4
 LOOSE - N 4 TO 10
 MEDIUM - N 10 TO 30
 DENSE - N 30 TO 50
 VERY DENSE - N MORE THAN 50

CONSISTENCY (PLASTIC - SILT & CLAY)
 VERY SOFT - N LESS THAN 2
 SOFT - N 2 TO 4
 MEDIUM - N 4 TO 8
 STIFF - N 8 TO 15
 VERY STIFF - N 15 TO 30
 HARD - N MORE THAN 30



ABBREVIATIONS
 UC = Unconfined Compression test
 CT = Consolidation Test
 SG = Specific Gravity Test
 VS = Vane Shear Test
 NM = Not Measured

- GENERAL NOTES**
1. THE SUBGRADE SURFACE EXPLORATION SHOWN WAS CONDUCTED ON JAN-30-98 BY UTAH DEPT. OF TRANSP.
 2. THESE DRILL LOGS REPRESENT A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN EACH 89 mm DIAMETER BORING AND ARE BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGEMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THESE DRILL LOGS MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR.
 3. THE WATER LEVELS AND CONDITIONS INDICATED ON THE DRILL LOGS REPRESENT HOLE CONDITIONS ON THE DATE SHOWN. EITHER WITH CASING STILL IN PLACE OR WITH PERFORATED PLASTIC PIPE INSTALLED. IT SHOULD BE NOTED, HOWEVER, THAT AT LOCATIONS AWAY FROM THE TEST HOLES OR AT OTHER TIMES OF THE YEAR THE WATER LEVELS AND CONDITIONS MAY VARY SIGNIFICANTLY.
 4. THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND TRANSITION MAY BE GRADUAL.
 5. COBBLE - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION BETWEEN 76 mm AND 305 mm.
 6. BOULDER - A ROCK FRAGMENT WITH AN AVERAGE DIMENSION OF 305 mm OR MORE.



UTAH DEPARTMENT OF TRANSPORTATION		REGION	STRUCTURES DIVISION	DESIGNED	CHECK
CHERRY HILL INTERCHANGE				DATE	CHECK
MSE WALL R-359G				DATE	CHECK
SOIL DATA				DATE	CHECK
PROJECT NUMBER				DATE	CHECK
•HDP-9124(003)				DATE	CHECK
DAVIS COUNTY				DATE	CHECK
R-359G				DATE	CHECK
DRG. NO.				DATE	CHECK
SHEET NO. 2 OF 2				DATE	CHECK