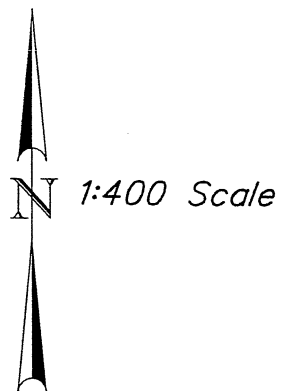


MSE WALL R-381F

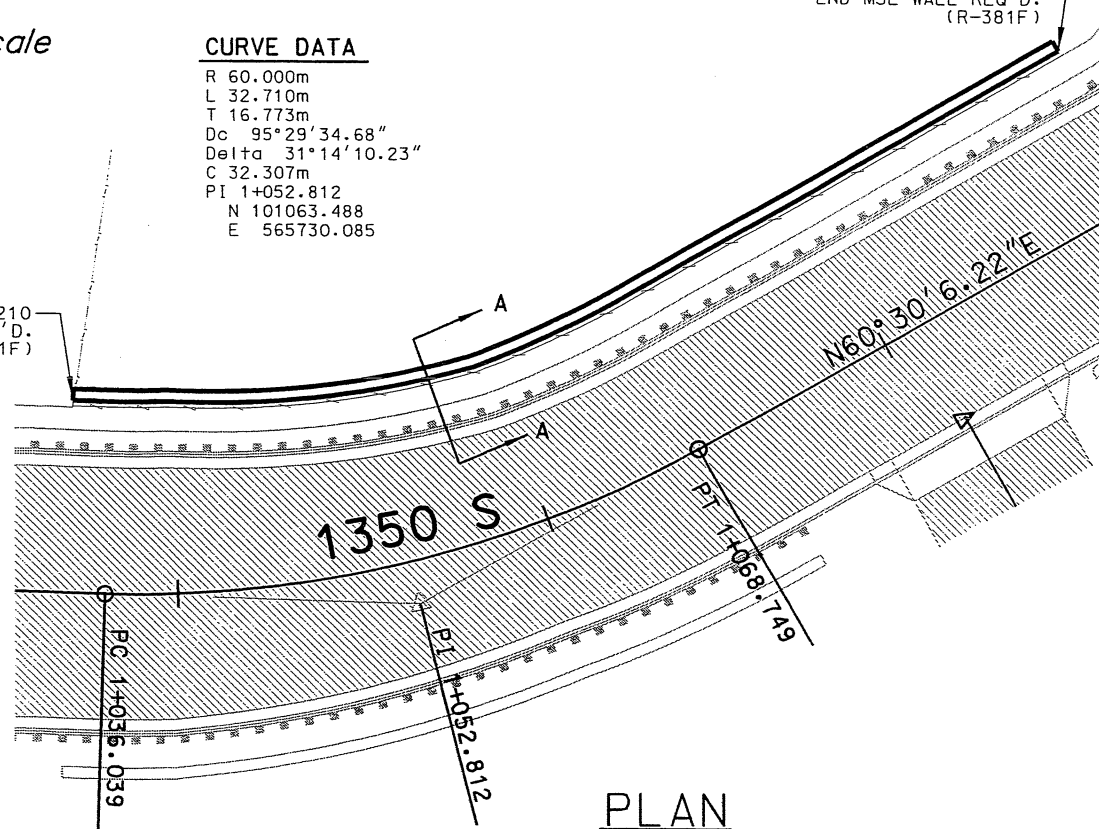


CURVE DATA

R 60.000m
L 32.710m
T 16.773m
Dc 95°29'34.68"
Delta 31°14'10.23"
C 32.307m
PI 1+052.812
N 101063.488
E 565730.085

STA. 1+034.000 LT. 10.210
BEGIN MSE WALL REQ'D.
(R-381F)

STA. 1+095.530 LT. 8.910
END MSE WALL REQ'D.
(R-381F)

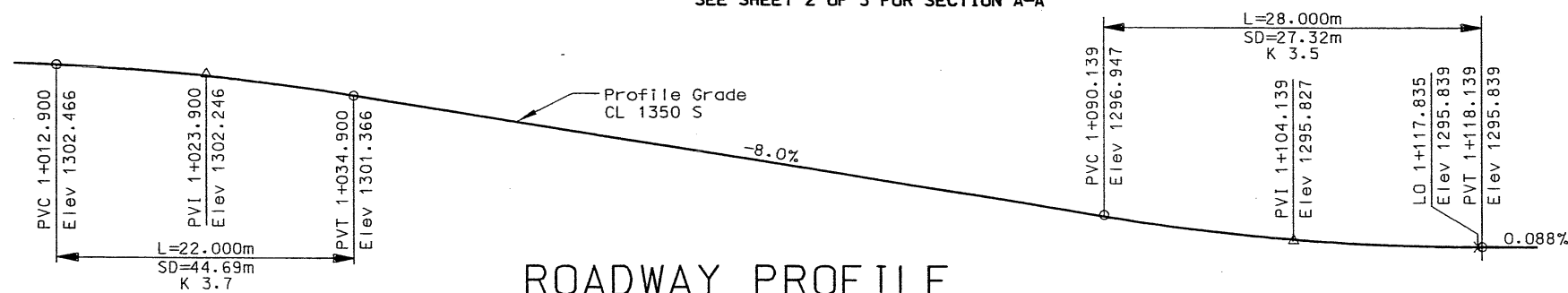


PLAN

SEE SHEET 2 OF 3 FOR SECTION A-A

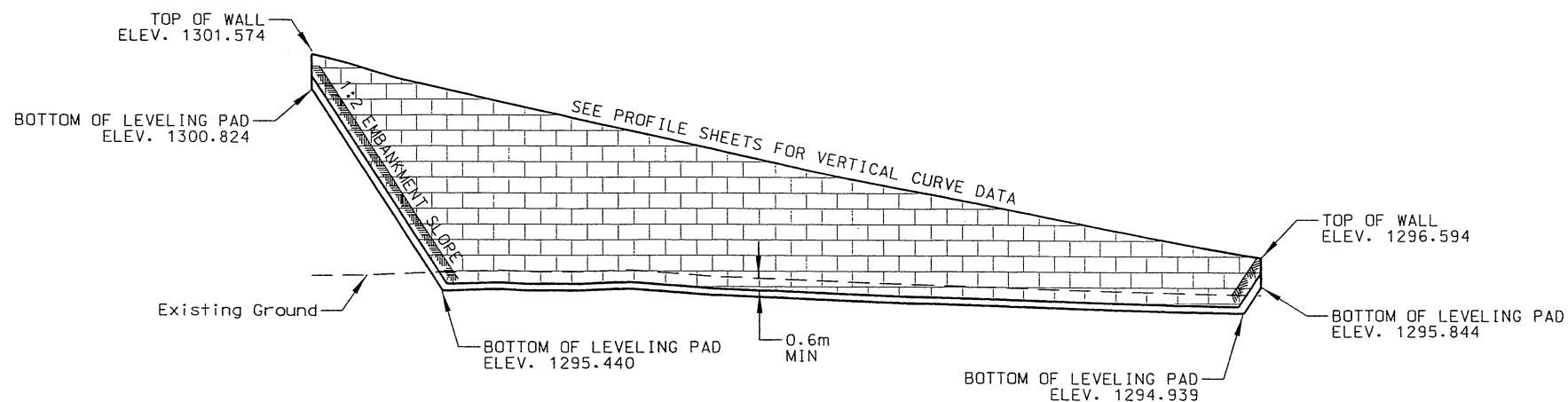
NOTES:

1. EXCAVATE A TEST PIT WITHIN THE FOUNDATION FOOTPRINT AT LEAST 3m DEEP WITH THE ENGINEER PRESENT TO VERIFY THE PRESENCE OF 2 METERS OF GRANULAR SOIL BENEATH THE WALL.
2. IF THE TEST PIT SHOWS 2 METERS OF GRANULAR SOIL, NO EXCAVATION BELOW THE LEVELING PAD IS REQUIRED.
3. IF THE TEST PIT SHOWS UNSUITABLE SOILS, EXCAVATE 2 METERS BELOW THE BOTTOM OF LEVELING PAD ELEVATION AND BACKFILL WITH SELECT MATERIAL MEETING THE REQUIREMENTS OF SECTION 02061M. THE WIDTH OF THIS EXCAVATION WILL BE THE WIDTH OF THE MSE WALL SECTION PLUS 1 METER. THE WATER LEVEL MUST BE KEPT AT LEAST 0.6m BELOW THE EXCAVATION DURING BACKFILLING OPERATIONS.



ROADWAY PROFILE

2x VERT. SCALE



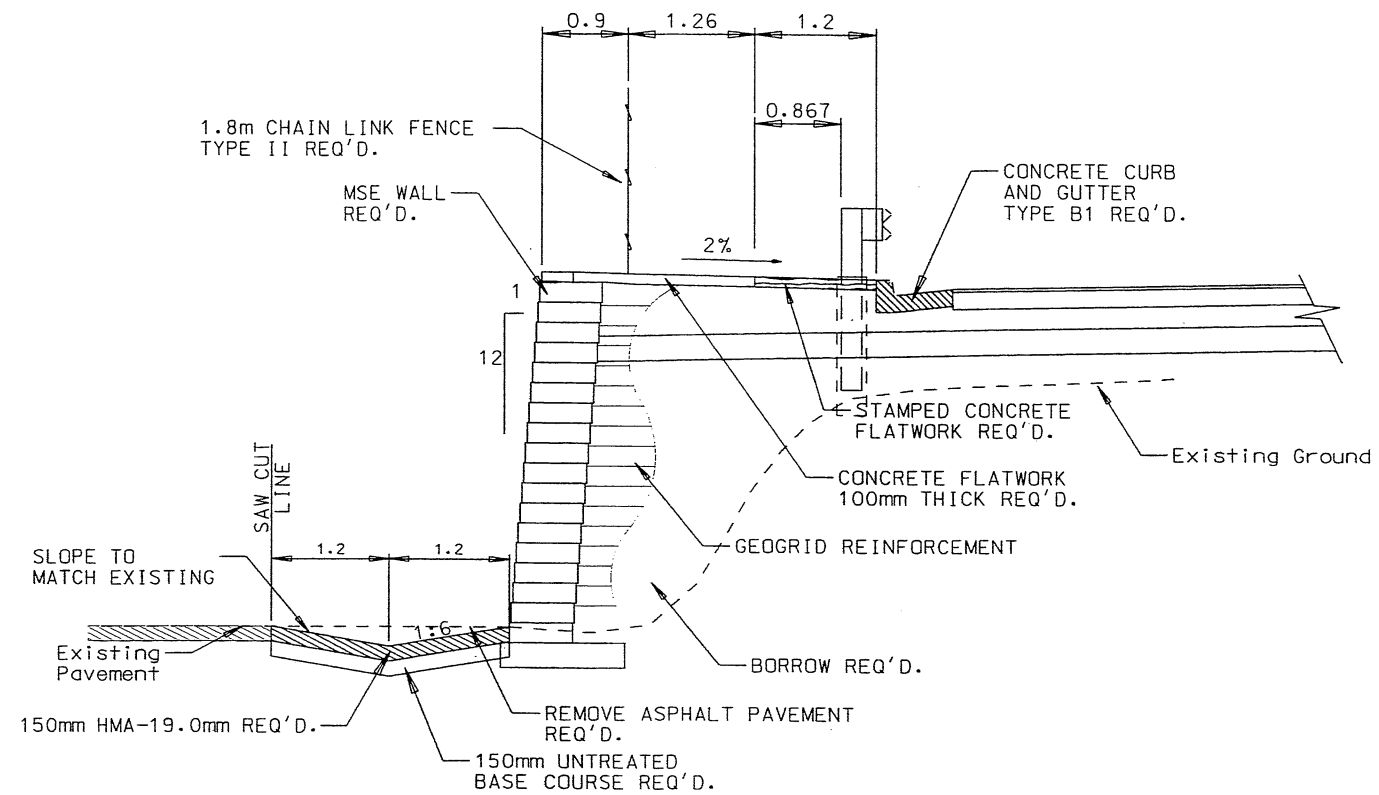
PROFILE

3x VERT. SCALE

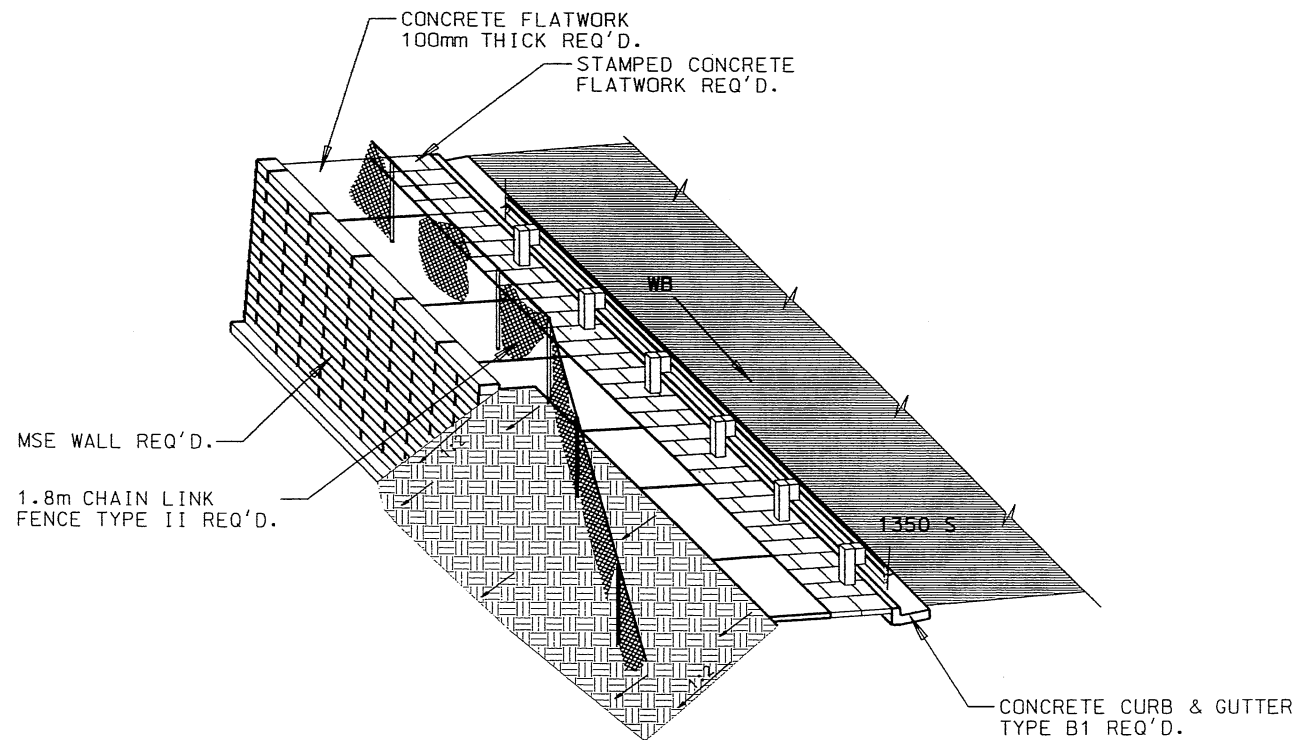
UTAH DEPARTMENT OF TRANSPORTATION REGION ONE, OGDEN ROADWAY DESIGN			
DESIGN RJ 7/01	CHECK BK 8/01	DESIGN RJ 7/01	CHECK RJ 8/01
DRAWN RM 7/01	CHECK RM 7/01	QUANT. RJ 7/01	CHECK BK 8/01
APPROVAL REGIONAL DATE 7/01		APPROVAL PROJECT DESIGN ENGINEER DATE 7/01	
APPROVAL REGIONAL DATE 7/01		APPROVAL PROJECT DESIGN ENGINEER DATE 7/01	
SR-126, 1800 SOUTH TO 12TH STREET, OGDEN MSE WALL SITUATION AND LAYOUT PROJECT NUMBER STP-BRF-0126(3)14			
WEBER COUNTY			
R-381F DRG. NO.			
SHT. 1 OF 3			
			REVISIONS
			NO. DATE BY SN

D:\Projects\1172\1172_00\Sitework\Final\Wall\WALLR381F.dwg

MSE WALL R-381F



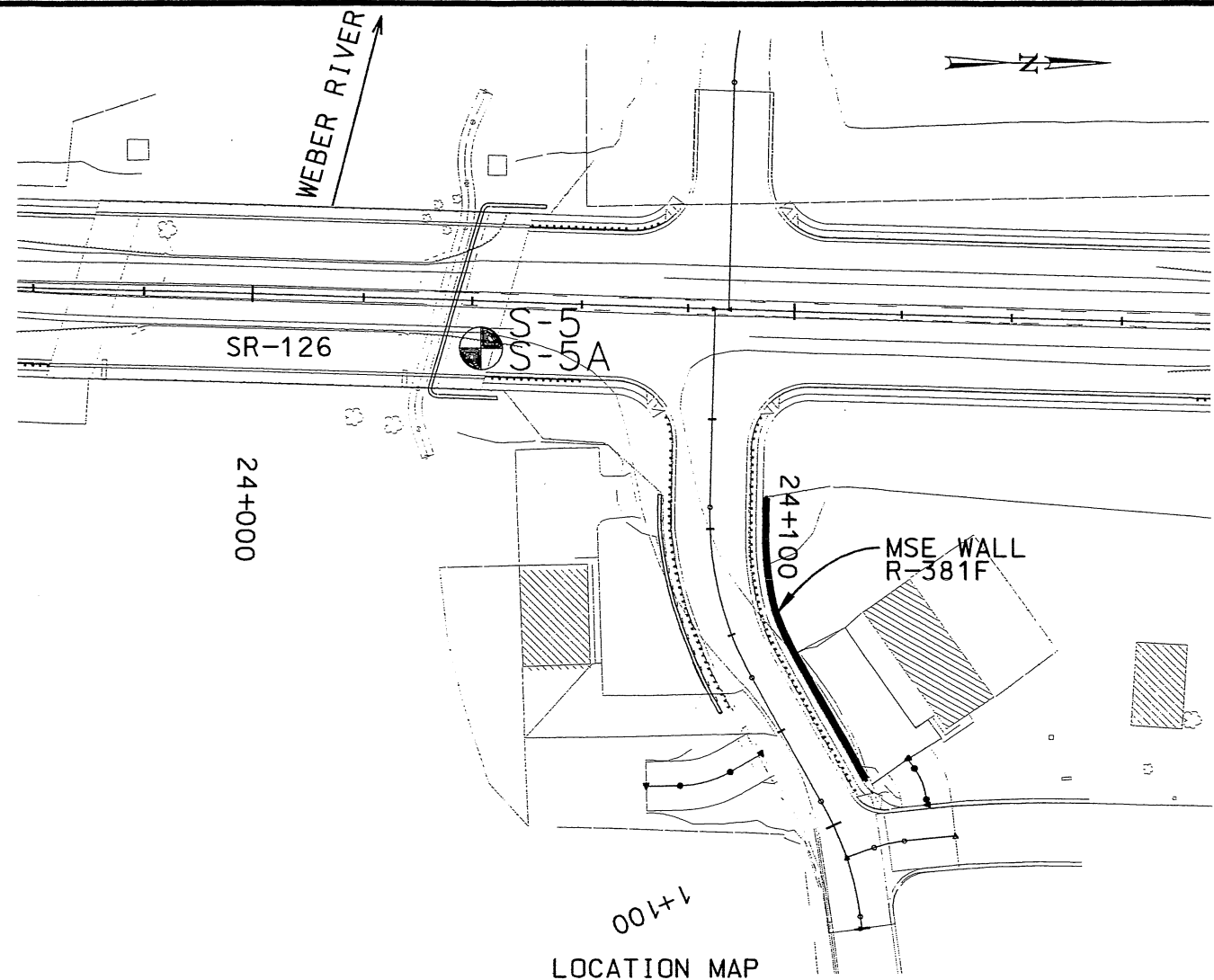
SECTION A-A



ISOMETRIC

24-AUG-2001 DGN File: NA\Floorplan\1472_D00_Sheet1_EPlan\Walls\R-381F-2.dgn

UTAH DEPARTMENT OF TRANSPORTATION REGION ONE, OGDEN ROADWAY DESIGN			
DESIGN	CHECK	BK	8/01
RJ	RJ	RJ	RJ
7/01	7/01	7/01	8/01
DESIGN	DRAWN	QUANT.	CHECK
RJ	RM	RJ	BK
7/01	7/01	7/01	8/01
APPROVAL	DATE	APPROVED	DATE
REC'D	9/01	R. J. [Signature]	9/01
		PROJECT DESIGN ENGINEER	
		APPROVED	DATE
		9/01	9/01
		[Signature]	
		ROADWAY DESIGN ENGINEER	
SR-126, 1800 SOUTH TO 12TH STREET, OGDEN MSE WALL SITUATION AND LAYOUT PROJECT NUMBER STP-BRF-0126(3)14			
WEBER COUNTY			
R-381F DRG. NO.			
SHT. 2 OF 3			



001+1
LOCATION MAP

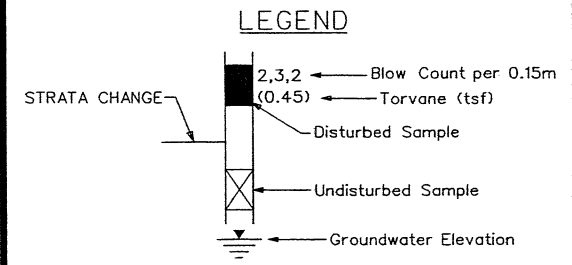
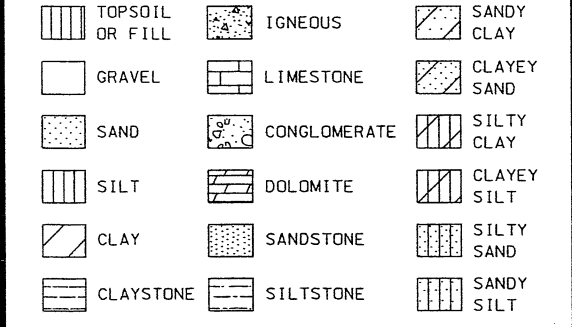
DRILL HOLE LOG		PROJECT: OGDEN SR-126 1800 SOUTH TO 12TH STREET PROJECT NO.: 200028.000				
BORING NO. S-5		CLIENT: UTAH DEPARTMENT OF TRANSPORTATION DATE: 12/11/00				
		LOCATION: SR-126 STA. 24+041.78 RT. 8.57 ELEVATION: -1297.30m				
		DRILLER: B. HARTLEY LOGGED BY: M. HANSEN/J. BOONE				
		EQUIP./DRILL METHOD: CME-55 / N.W. CASING				
		DEPTH TO WATER - INITIAL: 2.59m AFTER 24 HOURS: 3.87m				
Elev. (m)	Depth (m)	Lith. (m)	USCS (AASHTO)	Material Description	Blows Per 152mm	Other Tests
1295	1	5.6,5	GP-GM	gray wet, med. dense GRAVEL W/SAND AND SILT		
	2	4.3,32	GM (A-1-b)(3)	dk. brown moist to wet, med. dense to loose, SILTY GRAVEL W/SAND hitting something hard at bottom of sample, maybe concrete	9.2	NP 44 4.3 13
	3	3.2,2		brown, very soft SANDY CLAY See Boring No. B-5SA		
	4	7.6,4	SM	wet, loose, silty sand layer - 50mm thick	27.8	
	5	10.9,7	GP	brown, very moist LEAN CLAY		
	6	10.9,3		gray wet, med. dense GRAVEL W/SAND		
	7	12.1, 42.9	CL (A-7-5)(25)	gray-brown w/black spots, moist, firm	12.1	42.9 45 24 0 3 97 CT UC
	8	12.2, 0.72	CL	gray-brown moist, stiff	24.6	
	9	13.5, 31.6	CL	gray-brown moist, firm	13.5	31.6 CT
	10	33.3, 0.42	SM	dk. brown-gray SILTY SAND	36.3	
	11	33.3, 0.42	CL	gray-brown moist, firm	36.3	
	12	13.3, 33.6, 4.3	CL (A-7-5)(23)	gray-brown moist, stiff	13.3	33.6 4.3 20 0 4 96 CT
	13	2.2, 2, 0.48	CL	gray-brown moist, firm	33.5	
	14	2.2, 2, 0.48	CL	gray-brown moist, firm	33.5	
	15	13.9, 32.1	CL	gray-brown moist, stiff, w/interbedded sand layers	13.9	32.1 CT

Depth Continues on Boring No. S-5A

DRILL HOLE LOG		PROJECT: OGDEN SR-126 1800 SOUTH TO 12TH STREET PROJECT NO.: 200028.000				
BORING NO. S-5A		CLIENT: UTAH DEPARTMENT OF TRANSPORTATION DATE: 12/12/00 TO 12/14/00				
		LOCATION: SR-126 STA. 24+041.78 RT. 8.57 ELEVATION: 1297.38m				
		DRILLER: B. HARTLEY LOGGED BY: M. HANSEN/J. BOONE				
		EQUIP./DRILL METHOD: CME-55 / N.W. CASING				
		DEPTH TO WATER - INITIAL: 2.60m AFTER 24 HOURS: 3.78m				
Elev. (m)	Depth (m)	Lith. (m)	USCS (AASHTO)	Material Description	Blows Per 152mm	Other Tests
	1		GM	SILTY GRAVEL W/SAND		
	2			Also See Boring No. S-5 for Top 16.78m		
	3	1.1, 0.10	CL (A-4)(3)	brown very moist to wet, very soft SANDY CLAY W/SILTY SAND LAYERS	33.3	34 7 0 37 63
	4	14.7, 18	GP	gray wet, dense GRAVEL W/SAND		
	5					
	6	12.3, 0.46	CL (A-6)(8)	gray-brown moist, firm LEAN CLAY W/SILTY SAND LENSES AND SMALL LAYERS	31.2	40 18 0 3 97
	7					
	8	4.7, 17, 0.40	CL SM	gray-brown moist, firm dk. gray SILTY SAND W/CLAY LENSES	34.4	
	9					
	10	12.1, 13.13	CL (A-7-5)(18)	gray-brown moist, stiff LEAN CLAY	13.2	35.5 41 21 0 14 86 CT UC
	11	12.1, 13.13	CL SM	gray-brown moist, stiff LEAN CLAY W/SILTY SAND LENSES AND LAYERS	30.7	20.9 NP 0 70 30
	12	12.1, 13.13	CL SM	gray-brown moist, med. dense SILTY SAND SAND LENSES		
	13	12.1, 13.13	CL SM	gray-brown moist, stiff SILTY SAND		
	14	12.9, 37.6	CL	gray-brown moist, stiff	12.9	37.6
	15					
	16	0.56, 0.51, 0.78	CL, SM	gray-brown moist, stiff LEAN CLAY W/SILTY SAND LENSES AND LAYERS	28.5	
	17					
	18	0.71	CL, SM	gray-brown moist, stiff	13.1	33.5
	19					
	20	0.37, 0.46, 0.78	OH (A-7-5)(19)	gray to dk. gray moist, stiff to firm SANDY FAT CLAY	29.3	52 30 0 33 67
	21					
	22	13.2, 35.5	OH SM, CL	dk. gray brown wet, med. dense, very stiff SILTY SAND W/CLAY LENSES AND LAYERS	13.2	35.5
	23					
	24	25.8	SM (A-2-4)(3)	brown wet, dense SILTY SAND	25.8	NP 0 63 37
	25					
	26	23.27, 31	SP-SM (A-3)(3)	brown to gray-brown wet, very dense SAND W/SILT	23.2	NP 0 92 8
	27					
	28	14.0, 30.3, 53	OH (A-7-6)(34)	green-gray moist, stiff FAT CLAY W/SAND LENSES	14.0	30.3 53 32 0 3 97
	29					
	30	9.1, 12.5	SM	dk. gray wet, med. dense SILTY SAND W/CLAY LENSES AND LAYERS UP TO 25mm THICK	9.1	12.5
	31					
	32	9.1, 11.3	SM (A-4)(3)	dk. brown and gray-green moist to wet, med. dense SILTY SAND W/CLAY LAYERS AND LENSES	21.3	NP 0 60 40
	33					
	34	23.34, 34	SP-SM (A-3)(3)	dk. gray wet, very dense SAND W/SILT	22.6	NP 1 90 9
	35					
	36	22.34, 40	SM	dk. gray wet, very dense, w/clay lenses, trace fine gravel SAND W/SILT	22.3	40 0 60 40
	37					
	38	13.8, 33.0, 36	CL-2 (A-6)(10)	green LEAN CLAY SANDY SILT	13.8	33.0 36 16 0 9 91 CT UC
	39					
	40	11.1, 14, 0.79	CL (A-6)(17)	greenish-gray-brown moist, stiff SANDY LEAN CLAY W/CLAY SAND LAYERS	30	12 0 25 75
	41					
	42	37.9	CL	lt. green moist, stiff	37.9	
	43					
	44	13.9, 32.1	CL	dk. gray moist, stiff SANDY CLAY W/CLAY AND SAND LAYERS	13.9	32.1 CT UC

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**
1. THE SUBGRADE SURFACE EXPLORATIONS SHOWN WERE CONDUCTED ON AUG-19-99 BY UTAH DEPT. OF TRANSP. AND RB&G ENGINEERING.
 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 SALT LAKE CITY, UTAH STRUCTURES DIVISION		DESIGN BEP_ 8/01 CHECK BEP_ 8/01	DESIGN BEP_ 8/01 CHECK BEP_ 8/01
SR-126, 1800 SOUTH TO 12TH STREET, OGDEN SR-126 OVER WEBER RIVER		DESIGN BEP_ 8/01 CHECK BEP_ 8/01	DESIGN BEP_ 8/01 CHECK BEP_ 8/01
SOIL DATA		DESIGN BEP_ 8/01 CHECK BEP_ 8/01	DESIGN BEP_ 8/01 CHECK BEP_ 8/01
STP-BRF-0126(3)14		DESIGN BEP_ 8/01 CHECK BEP_ 8/01	DESIGN BEP_ 8/01 CHECK BEP_ 8/01
WEBER COUNTY		DESIGN BEP_ 8/01 CHECK BEP_ 8/01	DESIGN BEP_ 8/01 CHECK BEP_ 8/01
R-381F DRG. NO.		DESIGN BEP_ 8/01 CHECK BEP_ 8/01	DESIGN BEP_ 8/01 CHECK BEP_ 8/01
SHT. 3 OF 3		DESIGN BEP_ 8/01 CHECK BEP_ 8/01	DESIGN BEP_ 8/01 CHECK BEP_ 8/01