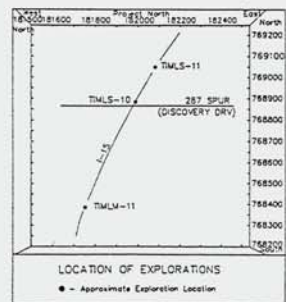
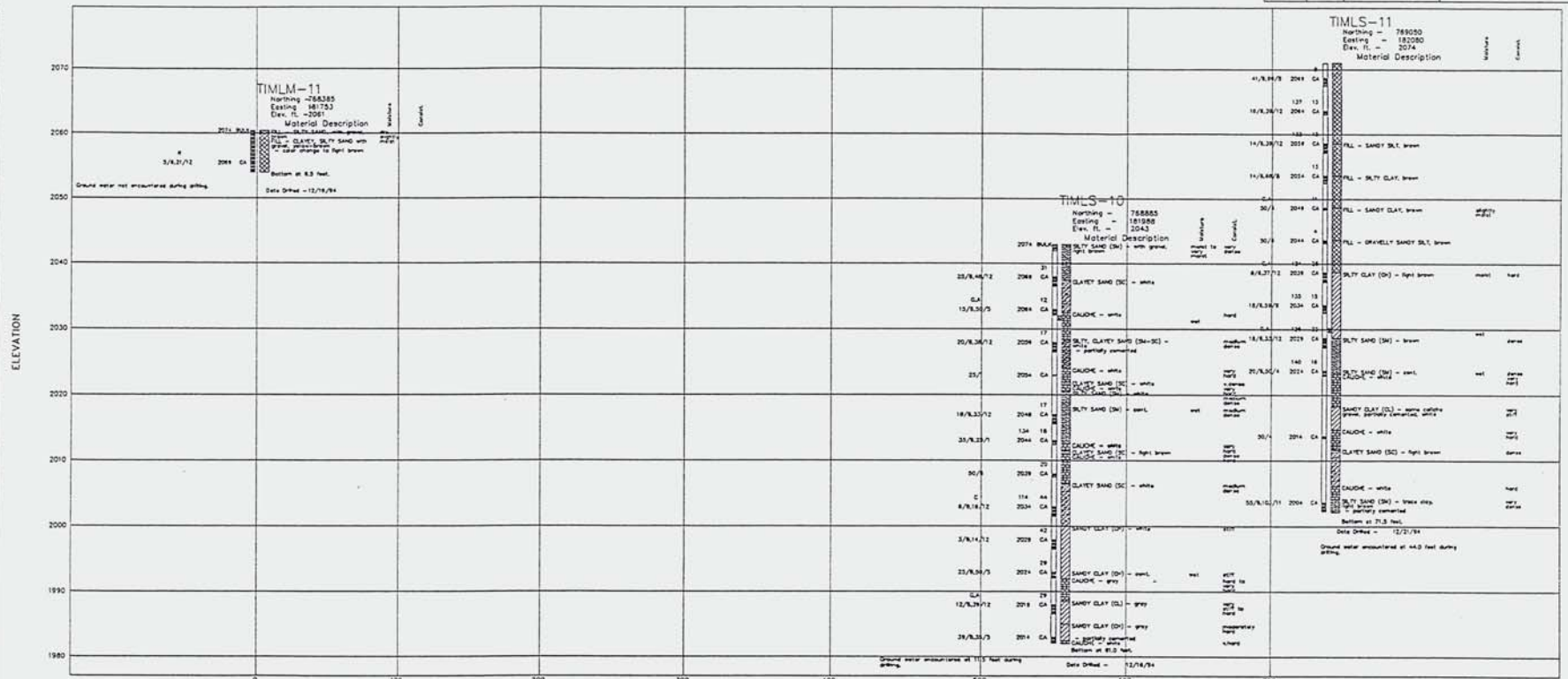


FENCE DIAGRAM

FED. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	DPC-009(002)	CLARK	B138A



BEST FIT DISTANCE FROM FIRST BORING (ft.)

THESE BORING LOGS AND TEST SUMMARIES APPLY ONLY AT THE LOCATIONS DRILLED AND AT THE TIME OF EXPLORATION. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THESE LOCATIONS WITH TIME. DATA IS A SIMPLIFICATION. SEE SHEET B138B FOR FENCE DIAGRAM LEGEND.

ORIGINAL CONSTRUCTION CONTRACT NO 1259



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 DISCOVERY DRIVE
 GRADE SEPARATION
LOG of BORINGS

H-936

KLEINFELDER
 Geotechnical and Environmental Engineers
 Soils and Material Testing

DESIGNED BY: WEV
 DRAWN BY: AJR
 CHECKED BY: WEV
 REVIEWED BY: ASM

PROJECT No. 31-215903

B-138A.DWG 6/75

FENCE DIAGRAM

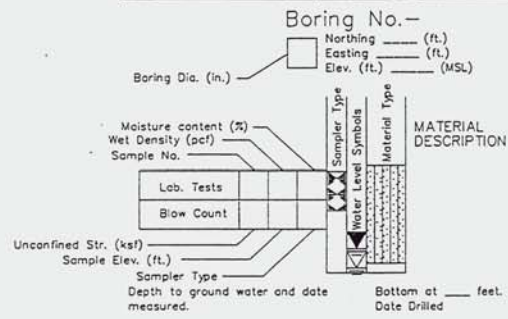
FED. REC. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	GPC-009(002)	CLARK	B-388

K.A. PENETRATION CLASSIFICATION - A				STANDARD PENETRATION CLASSIFICATION - B			
COARSE GRAINED SOIL		FINE GRAINED SOIL		COARSE GRAINED SOIL		FINE GRAINED SOIL	
BLOWS/FT.*	DENSITY	BLOWS/FT.*	CONSISTENCY	BLOWS/FT.*	DENSITY	BLOWS/FT.*	CONSISTENCY
0 - 5	VERY LOOSE	0 - 1	VERY SOFT	0 - 4	VERY LOOSE	0 - 2	VERY SOFT
6 - 12	LOOSE	2 - 3	SOFT	5 - 10	LOOSE	3 - 4	SOFT
13 - 36	MEDIUM DENSE	4 - 7	MEDIUM STIFF	11 - 30	MEDIUM DENSE	5 - 8	MEDIUM STIFF
37 - 60	DENSE	8 - 13	STIFF	31 - 50	DENSE	9 - 15	STIFF
OVER 60	VERY DENSE	14 - 25	VERY STIFF	OVER 50	VERY DENSE	16 - 30	VERY STIFF
* Penetration Test N=350 lb. Hammer, with a 30" free fall on a 3.25" O.D., 2.6" I.D. Sampler.		26 - 42	HARD	* Penetration Test N=140 lb. Hammer, with a 30" free fall on a 2.0" O.D., 1.38" I.D. Sampler.		31 - 50	HARD
		OVER 42	VERY HARD			OVER 50	VERY HARD

MOD. CA. PENETRATION CLASSIFICATION - C			
COARSE GRAINED SOIL		FINE GRAINED SOIL	
BLOWS/FT.*	DENSITY	BLOWS/FT.	CONSISTENCY
0 - 6	VERY LOOSE	0 - 2	VERY SOFT
7 - 16	LOOSE	3 - 5	SOFT
17 - 47	MEDIUM DENSE	6 - 10	MEDIUM STIFF
48 - 78	DENSE	11 - 18	STIFF
OVER 78	VERY DENSE	19 - 36	VERY STIFF
* Penetration test N=140 lb. hammer, with a 30" free fall on a 2.5" O.D., 1.9" I.D. Sampler.		37 - 60	HARD
		OVER 60	VERY HARD

		UNIFIED SOIL CLASSIFICATION	
		GROUP SYMBOL	TYPICAL NAME and DESCRIPTION
More than 50% of the coarse fraction coarser than the # 4 sieve.	GRAVEL	GW	WELL GRADED GRAVELS, Gravel-Sand mixtures, little or no fines.
		GP	POORLY GRADED GRAVELS, gravel-sand mixtures, little or no fines.
		GM	SILTY GRAVELS, poorly graded gravel-sand-silt mixtures.
	SAND	GC	CLAYEY GRAVELS, poorly graded gravel-sand-clay mixtures.
		SW	WELL GRADED SANDS, gravelly-sand with little or no fines.
		SP	POORLY GRADED SANDS, gravelly-sand with little or no fines.
More than 50% of the coarse fraction finer than the # 4 sieve.	GRAVEL WITH FINES	SM	SILTY SANDS, poorly graded gravel-sand-silt mixtures.
		SC	CLAYEY SANDS, poorly graded sand-gravel-clay mixtures.
	CLEAN SAND	ML	Inorganic SILTS & very fine SANDS, silty or clayey very fine sands, clayey silts with low plasticity.
		CL	Inorganic LEAN CLAYS of low to medium plasticity, GRAVELLY CLAYS, SANDY CLAY, SILTY CLAY.
More than 50% finer than the No. 200 sieve.	LOW PLASTIC SILTS & CLAYS	OL	Organic SILTS & CLAYS of low plasticity
		MH	Inorganic SILTS, micaceous or diatomaceous fine sand or silt.
	HIGH PLASTIC SILTS & CLAYS	CH	Inorganic CLAY of high plasticity, fat clay
		OH	Organic SILTS and CLAYS of medium to high plasticity.
HIGHLY ORGANIC SOILS		Pt	Peat, Humus, Swamp soil with high organics

Boundary classifications: Utilize dual symbols.



KEY:

	- CALICHE
	- cemented SAND & GRAVEL

BLOW COUNT - CONSISTENCY CORRELATION
 By: Terzaghi and others, correlation often poor do to many poorly controlled variables.

- Groundwater level encountered during drilling (May not be static level)

- Groundwater level measured on date shown.

LABORATORY TESTS:
 NR=No Recovery, C=Consolidation, A=Atterberg, Ch=Chemical test, S=Direct Shear, G=Grain-Size, E=Expansion, Sol=Solubility, Res=Resistivity, R=R-Value, PP=Pocket Penetrometer

SAMPLER TYPE:

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ORIGINAL CONSTRUCTION CONTRACT NO 1259

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 DISCOVERY DRIVE
 GRADE SEPARATION
FENCE DIAGRAM LEGEND

H-936

	DESIGNED BY <u>WRV</u>
	DRAWN BY <u>APR</u>
	CHECKED BY <u>WRV</u>
	REVIEWED BY <u>AEW</u>

PROJECT No. 31-215903