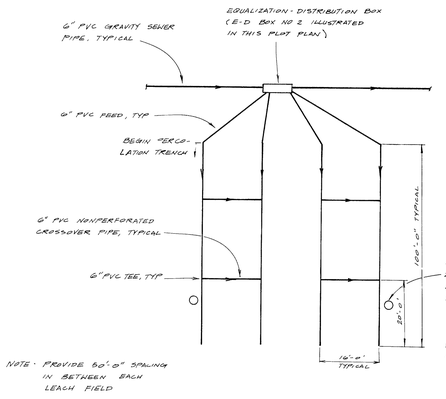
GENERAL NOTES:

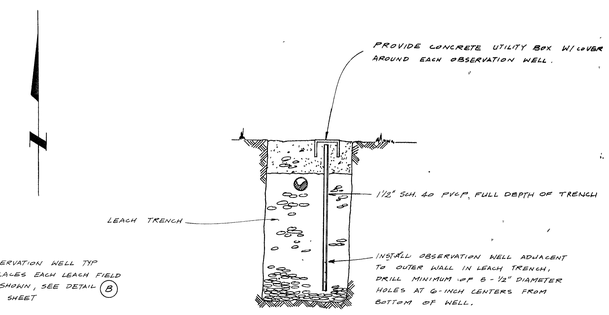
1. NEW SEPTIC TANK INLET AND OUTLET PIPES SHALL CONSIST OF 5'-0" MINIMUM LENGTH CAST IRON PIPE. OUTLET SHALL TRANSITION TO PVCP AFTER CAST IRON PIPE
2. MINIMUM SLOPE ON GRAVITY SEWER LINES SHALL BE n 0040 FT./FT., UNLESS OTHERWISE SHOWN.
3. LOCATION OF ALL SEPTIC TANKS SHALL BE MADE IN THE FIELD TO COORDINATE WITH UTILITIES AND FUTURE PLANNING
4. PROVIDE CLEANOUTS TO GRADE ON ALL NEW SEWER LINES LEAVING NEW BUILDINGS CLEANOUTS SHALL BE INSTALLED WITHIN 5 FEET OF BUILDING.

SEWAGE PACILITY CONNECTIONS, SEPTIC TANK LOCATION AND EQUIPMENT DESCRIPTION

ITEM #	DESCRIPTION OF WORK
(1)	Install new 4-inch PVCP outlet on existing septic tank (depth unknown) at Residence No. 1 and route to Manhole No. 1. Invert at manhole shall be 2468.00
(1A)	Install new 2,500 gallon septic tank; minimum 8 feet from new comfort station. Install 4-inch PVCP outlet and run to Manhole No. 1 at invert 2468.00.
(2)	Install new 1,500 gallon septic tank. Placement of tank shall be as required for new lavatory services installed in Building No. 2. Provide cleanout to grade on sewer line within 5 feet from edge of building. Install sewer service inlet into tank on 45 degree angle. Install outlet on septic tank on 45 degree angle and route to gravity sewer line.
(3)	Install new 1,500 gallon septic tank at east end of existing zoo building. Intercept existing outlet (size, type and depth unknown) from building and run into new septic tank. Install new 4-inch PVC outlet and route to new gravity main.
(4)	Install 6-inch PVC gravity sewer overflow, approximately 50 feet in length and terminate at 600 ft.³ gravel leach sump. Gravel shall begin 2'-0" below existing grade and be 6 feet deep. Install 1-2½ clean graded gravel.
(5)	Install new 4-inch PVCP outlet on existing septic tank (size and depth unknown). Route new outlet to west leach line of leach field No. 1 and connect to distribution pipe with PVC tee fitting.
(6)	Install new 4-inch PVCP sewer line under Building No. 17 as shown in Detail (E) and route to new 1,500 gallon septic tank. Provide cleanouts as shown. Route 4-inch outlet from new septic tank to west leach line of leach field No. 2 and connect to distribution pipe with PVC tee fitting.
(7)	Install new 2,500 gallon septic tank. Provide cleanouts as required. Install 6-inch PVCP outlet line and route to equalization, minimum slope from septic tank to E-D box is 0.004 ft./ft.
(8)	Install percolation field consisting of three 100 foot trenches and construct similar to Detail (A), this sheet and Details: sheet . Install observation well similar to (B) adjacent north end of eastern trench.
(9)	Install new 500 gallon septic tank; may use steel tank with 16 mil coat tar epoxy coating inside and out. Inlet and outlet shall be similar in location and diameter to that shown in Detail (5), Sheet .
(10)	Install leach field consisting of two 100-foot long trenches. Construct similar to Detail (A), Sheet . Diameter of feed and perforated piping shall be 4-inch PVCP sewer. Depth of gravel sha-l be 3'-0" below perforated pipe. Separation between leach trenches shall be 16'-0". Begin leach trenches 10'-0" from edge of loop roadway. Minimum slope of pipe shall be 0.0040 ft/ft for gravity sewer and 0.0030 ft/ft for perforated pipe.
(11)	At tee, disconnect and retire sewer lateral from building 16 and verify flow from building 16 to septic tank at Item 6.

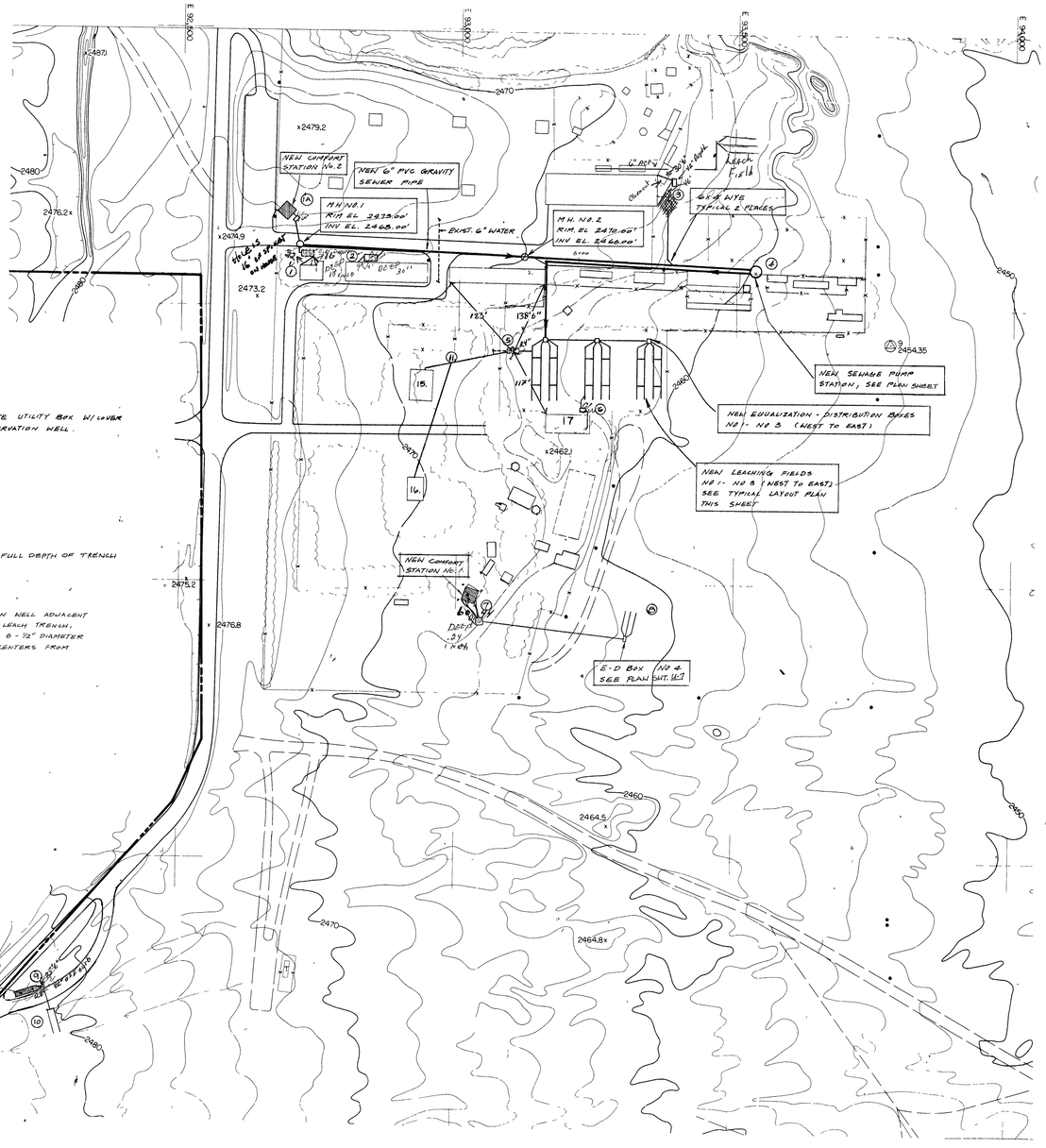


A U-5 TYPICAL LEACH FIELD PLOT PLAN
NTS



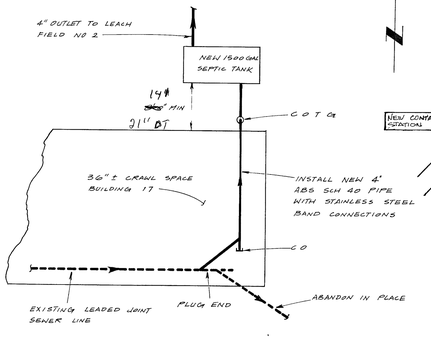
NOTE: MINIMUM SLOPE ON LEACH LINES SHALL BE 0.0030 FT/FT

B U-5 DETAIL - OBSERVATION WELL
NTS



SEWAGE FACILITIES PLAN
1" = 100'-0"

NOTE INSTALL SEPTIC TANK NORTH OF EXISTING IRRIGATION TRENCH.



C U-5 DETAIL - SEWER PIPING BUILDING NO. 17
NTS

Kenneth K. Freeman

NORTH

REVISIONS	
DESIGNED	CSL/GJ
CHECKED	KKF
DATE	11/80

SHEET U-5

CHARLES SALADINO-LANDSCAPE ARCHITECT-ASLA-LTD

waterresource consulting engineers

SEWAGE FACILITIES PLAN

FLOYD LAMB STATE PARK at TULE SPRINGS LAS VEGAS NEVADA PHASE 1-B & 2

NEVADA DIVISION OF STATE PARKS

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