



2600 The American Rd. SE, Ste. 100
Rio Rancho, NM 87124
505-898-8021 phone
505-898-8501 fax

Albuquerque
Aztec
Colorado Springs
Cuba
Denver
Fort Worth
Houston
Kansas City
Lawrence
Monterey Park
Omaha
Overland Park
Phoenix
Rio Rancho
Salina
Salt Lake City
San Bernardino
San Diego
Santa Fe

April 14, 2010

Curtis Cherne, P.E.
City of Albuquerque
Planning Department
600 2nd Street NW
Albuquerque, NM 87103

Re: West Mesa HS Parking Lot Traffic Circulation Layout

Dear Mr. Cherne,

This letter is in response to the comments dated March 25, 2010 for the West Mesa High School Parking Lot Grading and Drainage Plan with the engineer's stamp dated 03-03-10 (J10-D005). The comments and the responses are shown below:

Comment 1: "Provide inverts for the connections to the existing storm drain."

Response: Inverts are shown on C-107 and C-108.

Comment 2: "Provide flow line elevation in Fortuna at the drive entrances."

Response: The flow line elevations are shown on C-107 and C-108.

Comment 3: "Provide existing elevation data (contours or spots)."

Response: The contour elevations are shown on C-107 and C-108.

Comment 4: "It appears the proposed median curb on the west end of the project may block flows from the west. Provide elevation data west of this curb and a top of curb elevation."

Response: The curb was blocking the flows from heading west. The median curb was removed and a proposed cut off wall is shown that matches existing grades to let the flows pass east into the parking lot.

Comment 5: "Keyed Note 14 proposes to build a Type "C" inlet in median curb. A typical COA Type "C" inlet is built into an 8" curb, while median curb is 6"."

Response: Please see attached detail for transition (a COA standard transition but modified to 6" curb).

Comment 6: "What does a raised cross walk culvert look like? Sheet C-502 was not provided."

Response: Please see sheet C-502 attached.





The revised grading and drainage plan sheets C-106, C-107 and C-107 are attached for your review.

If you have any questions or need any more information for your review, please contact me at 505-948-5129.

Sincerely,

A handwritten signature in black ink, appearing to read "Jennifer Flor", with a stylized flourish at the end.

Jennifer Flor, P.E.
Project Manager
Wilson & Company

CC: Project File

Appendix B

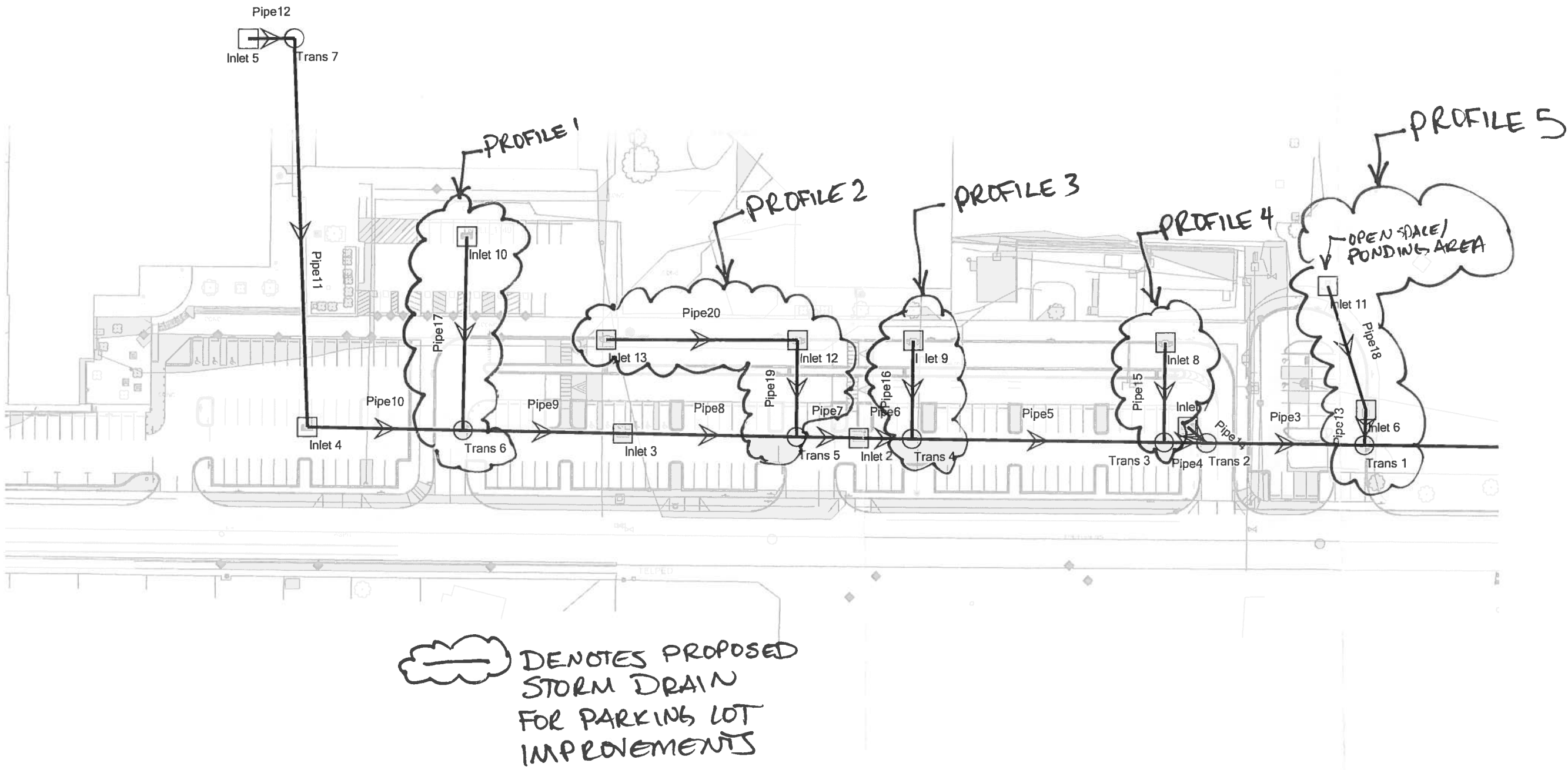
StormCAD Data

STORMCAD RESULTS FOR
WEST MESA HIGH SCHOOL
PARKING LOT IMPROVEMENTS

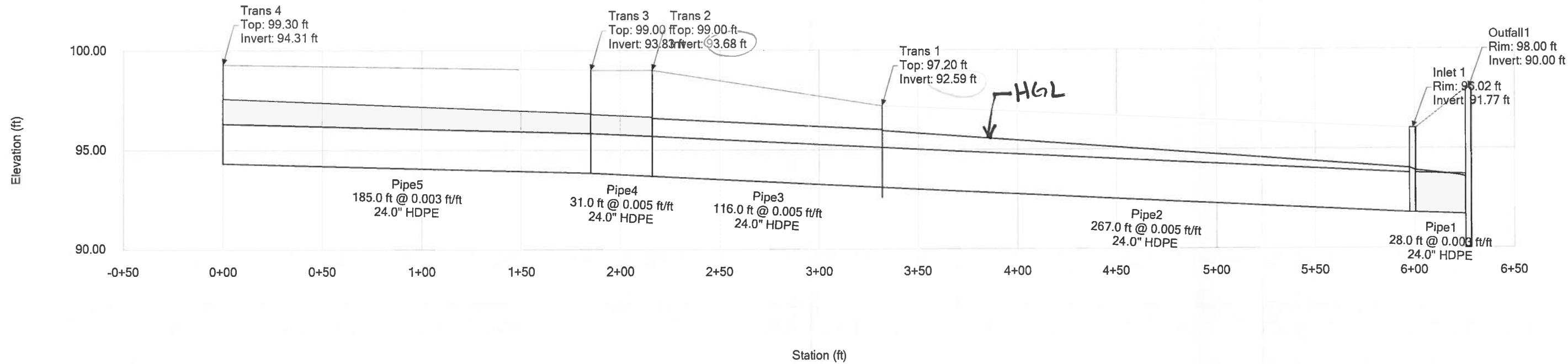
MARCH 2010

Label	Slope (Calculated) (ft/ft)	Length (Unified) (ft)	Diameter (in)	Manning's n	Flow (ft³/s)	Velocity (Average) (ft/s)	Invert (Upstream) (ft)	Invert (Downstream) (ft)	Elevation Ground (Start) (ft)	Elevation Ground (Stop) (ft)	Cover (Start) (ft)	Cover (Stop) (ft)	Hydraulic Grade Line (In) (ft)	Hydraulic Grade Line (Out) (ft)
Pipe1	0.003	28	24	0.01	28.85	9.18	91.77	91.69	96.02	98	2.25	4.31	93.89	93.53
Pipe2	0.005	267	24	0.01	24.98	7.95	93.1	91.77	97.2	96.02	2.1	2.25	95.95	94.02
Pipe3	0.005	116	24	0.01	20.88	6.65	93.68	93.1	99	97.2	3.32	2.1	96.6	96.01
Pipe4	0.005	31	24	0.01	20.08	6.39	93.83	93.68	99	99	3.17	3.32	96.78	96.64
Pipe5	0.003	185	24	0.01	18.76	5.97	94.31	93.83	99.3	99	2.99	3.17	97.58	96.82
Pipe6	0.005	39	24	0.01	17.76	5.65	94.5	94.31	99.7	99.3	3.2	2.99	97.76	97.61
Pipe7	0.005	46	24	0.01	17.76	5.65	95.81	95.6	99.3	99.7	1.49	2.1	97.98	97.81
Pipe8	0.005	127	24	0.01	16.34	5.2	96.4	95.81	100.4	99.3	2	1.49	98.4	98.01
Pipe9	0.006	117	24	0.01	15.24	7.58	97.66	97	101.5	100.4	1.84	1.4	99.07	98.44
Pipe10	0.006	114	24	0.01	10.53	6.93	98.3	97.66	101.3	101.5	1	1.84	99.46	99.11
Pipe11	0.005	285	18	0.01	3.4	4.98	100.12	98.7	104.14	101.3	2.52	1.1	100.82	99.72
Pipe12	0.005	33	18	0.01	3.4	5.04	100.29	100.12	104.06	104.14	2.27	2.52	100.99	100.94
Pipe13	0.005	26	24	0.01	4.1	1.31	92.72	92.59	96.87	97.2	2.15	2.61	96.8	96.8
Pipe14	0.005	18	18	0.01	0.8	3.31	95.96	95.87	98.96	99	1.5	1.63	96.98	96.98
Pipe15	0.005	73	12	0.01	1.32	1.68	95.55	95.19	98.55	99	2	2.81	97.35	97.29
Pipe16	0.005	72	12	0.01	1	1.27	95.83	95.47	98.83	99.3	2	2.83	98.08	98.05
Pipe17	0.005	142	18	0.01	4.71	5.43	98.4	97.69	100.9	101.5	1	2.31	99.23	99.15
Pipe18	0.005	95	24	0.01	2.7	0.86	93.3	92.82	96.3	96.87	1	2.05	96.83	96.82
Pipe19	0.005	71	12	0.01	1.42	1.81	96.31	95.96	99.26	99.3	1.95	2.34	98.07	98
Pipe20	0.005	140	12	0.01	0.88	1.12	97.11	96.41	99.61	99.26	1.5	1.85	98.18	98.13

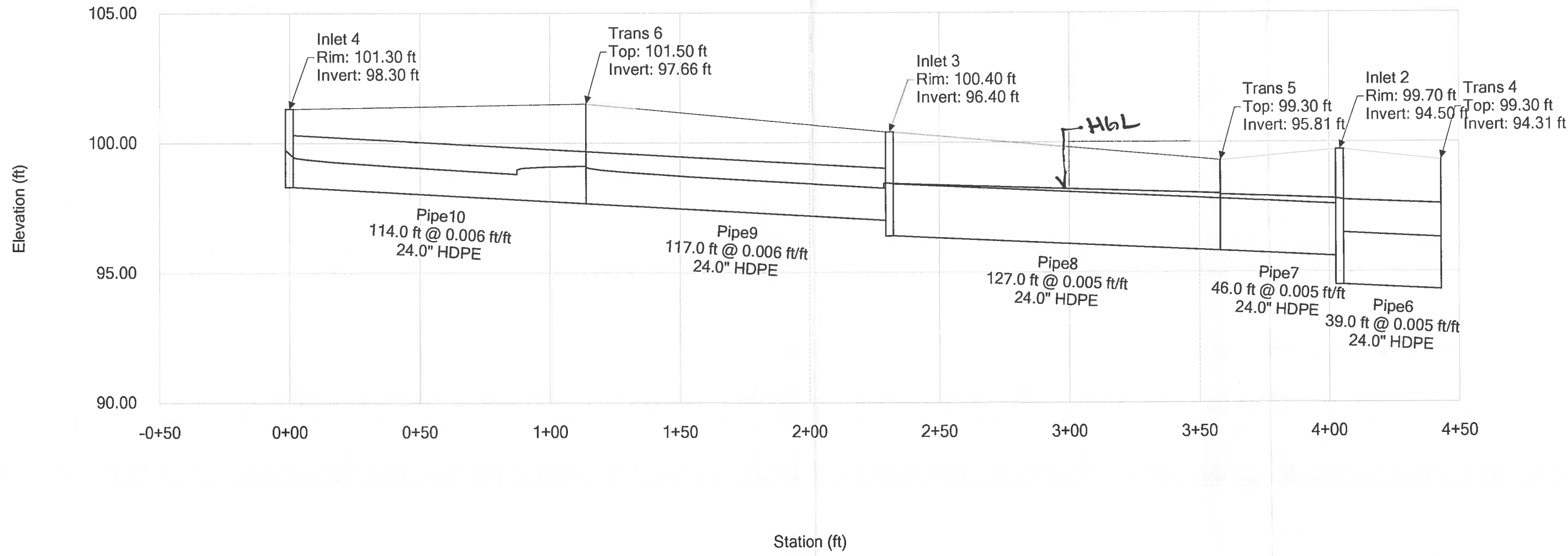
Scenario: Base



Profile Report **Engineering Profile - MAIN LINE 1 (stormcad parking lot.stc)**

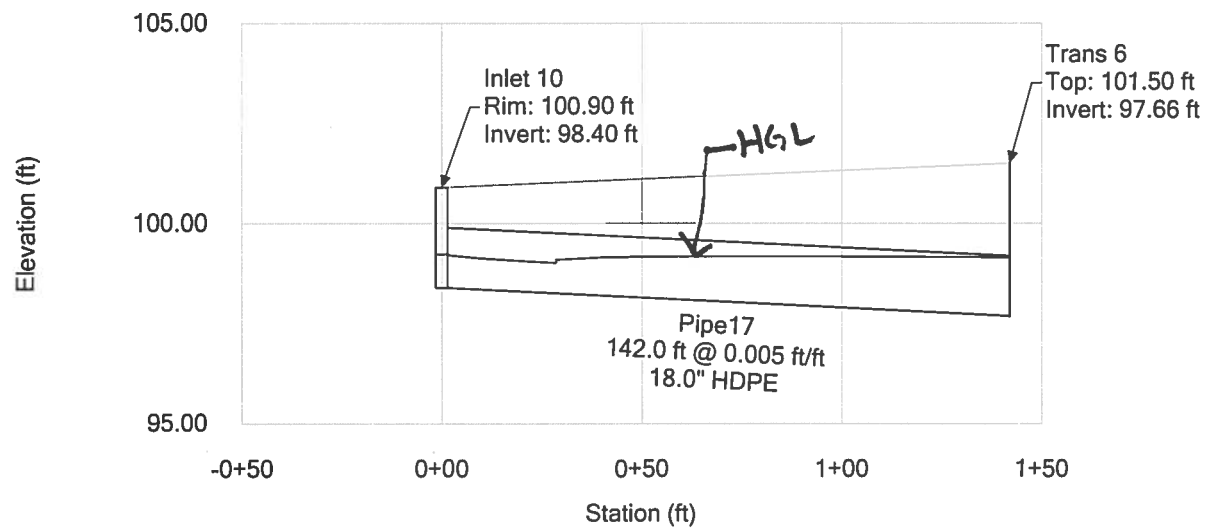


Profile Report **Engineering Profile - MAIN LINE 2 (stormcad parking lot.stc)**



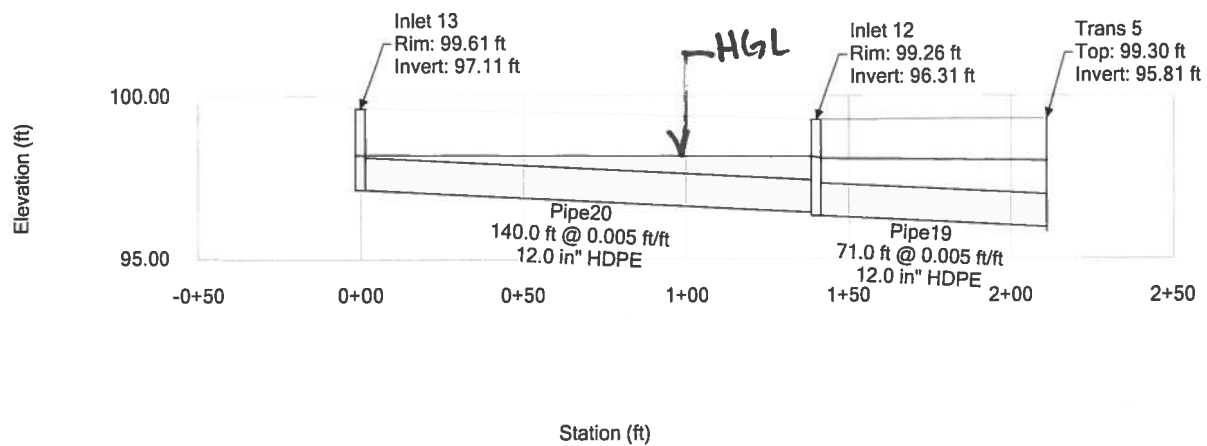
Profile Report

Engineering Profile - PROFILE 1 (stormcad parking lot.stc)

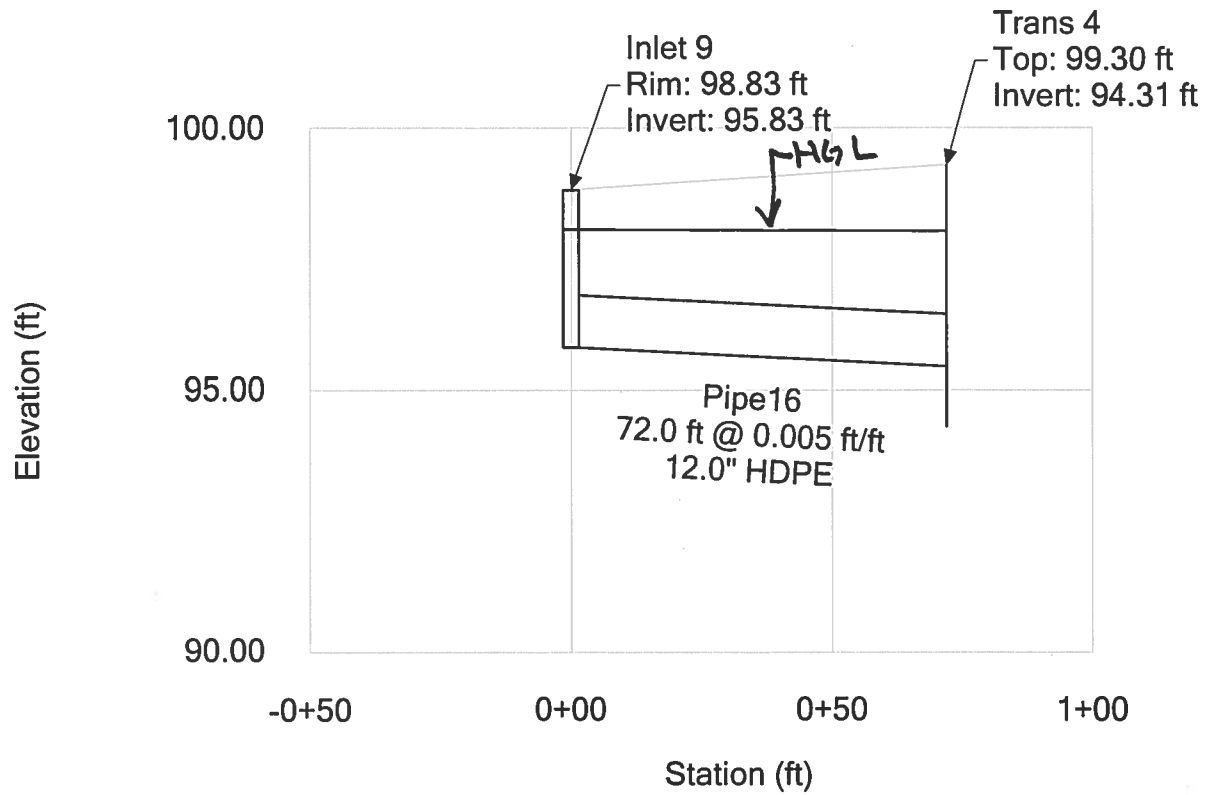


Profile Report

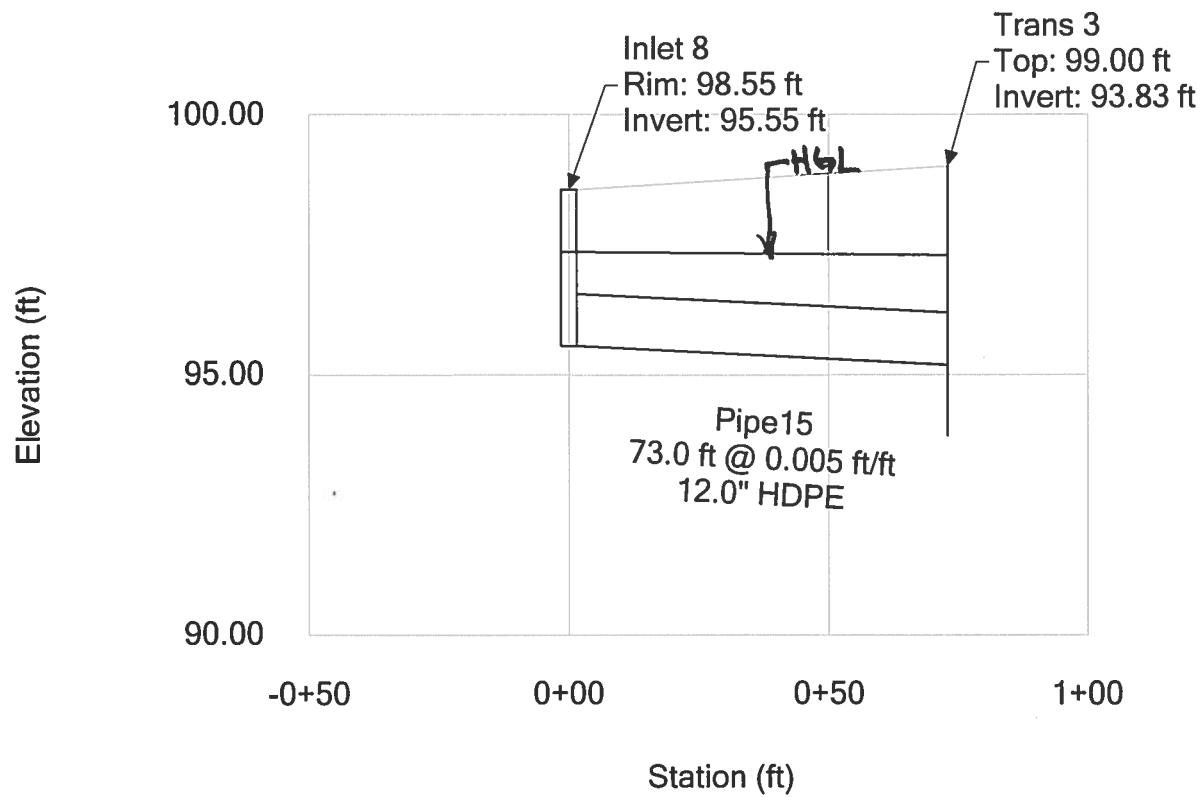
Engineering Profile - PROFILE 2 (stormcad parking lot.stc)



Profile Report
Engineering Profile - PROFILE 3 (stormcad parking lot.stc)



Profile Report **Engineering Profile - PROFILE 4 (stormcad parking lot.stc)**



Profile Report **Engineering Profile - PROFILE 5 (stormcad parking lot.stc)**

