

These plans are conditionally approved as submitted or noted during plan review and are subject to field inspection. Approved plans must be kept on site and are needed for all inspections. No changes or modifications to these plans. Changes require a revision permit with the revised plans. Trade Permits are required for Trade (e.g. Electrical or Plumbing)

Structural Review - Glenn Keshavan
 DDOF Review - Shwanti Zaky
 DDOE SE-SW Review - Saba Charavi
 HPRB Review - Timothy Demee
 DC Water Review - Vahid Bahari

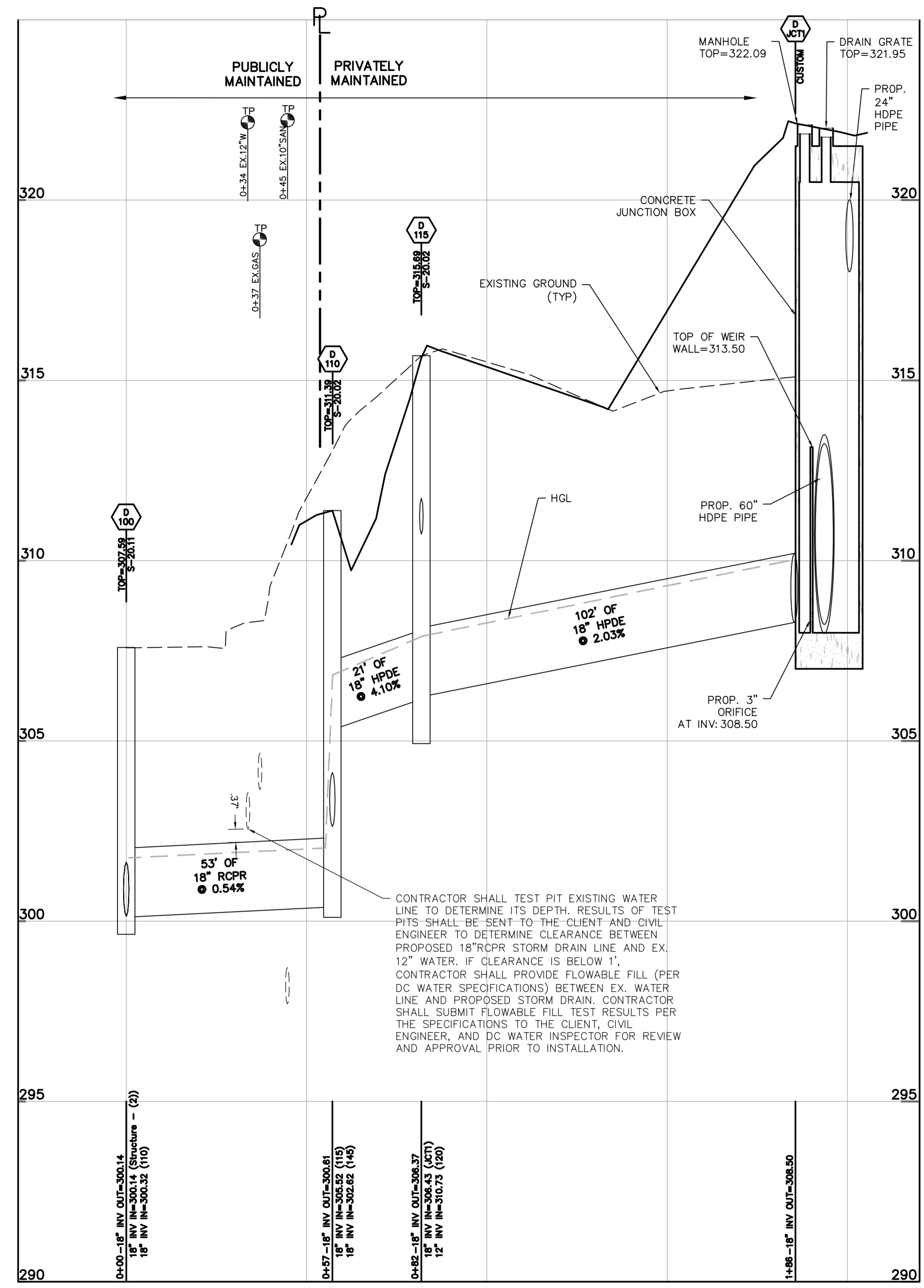
VKA CAPITOL
 ENGINEERS * PLANNERS * LANDSCAPE ARCHITECTS * SURVEYORS * CIVIL ENGINEERS * ARCHITECTS * DESIGNERS * CONSTRUCTION MANAGERS

BRIAN RUHL
 PROJECT MANAGER
 ruhl@vkapitol.com

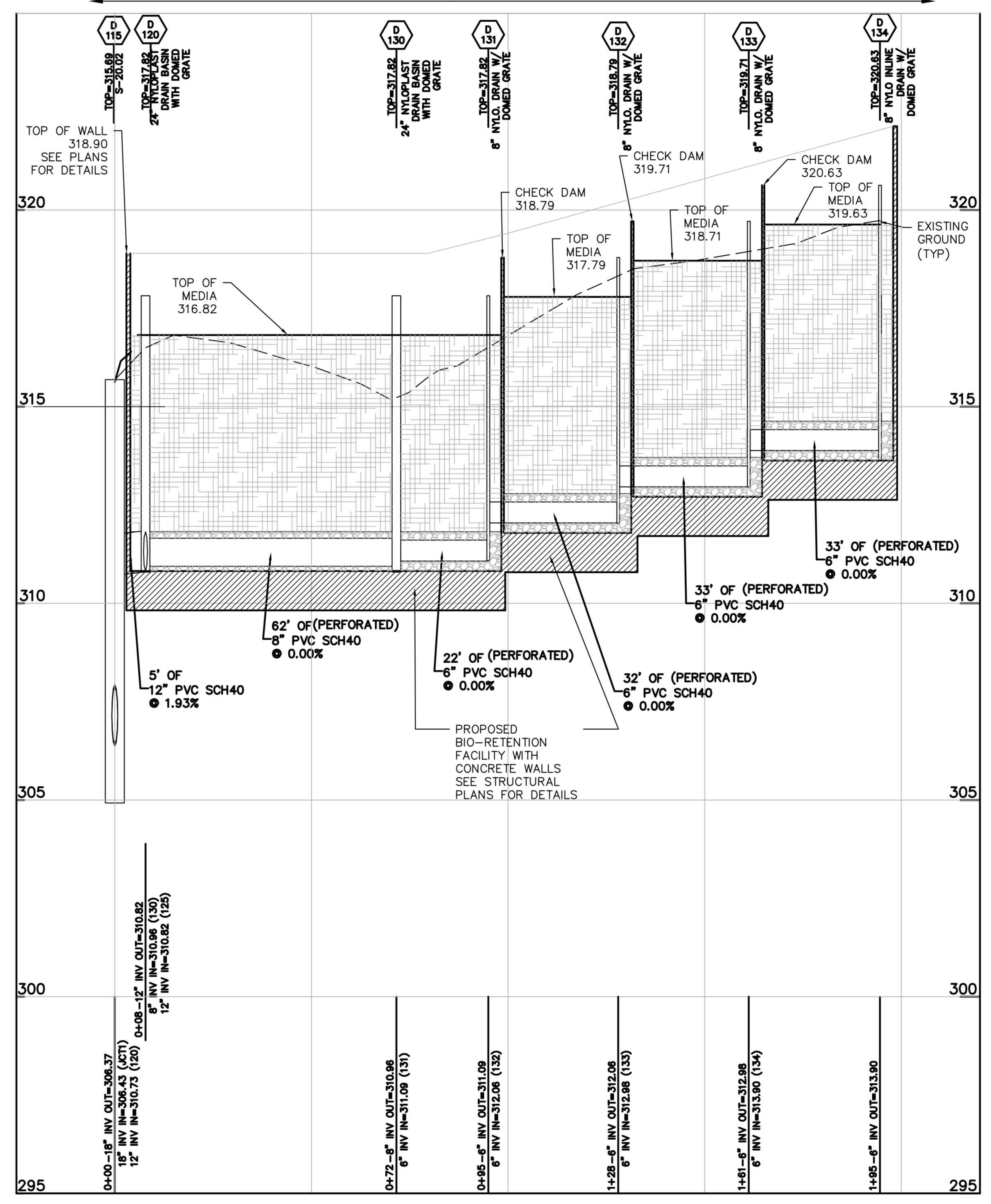
VKA CAPITOL, LLC * 4910 MASSACHUSETTS AVENUE, NW, SUITE 100
 WASHINGTON, DC 20016 * PHONE: 202.244.4140
 W.W.W. V.K.A.C.A.P.I.T.O.L.C.O.M.

MARET SCHOOL
 PROPOSED ATHLETIC FIELDS
 SQUARE 2319, LOT 832
 5901 UTAH AVE. NW
 WASHINGTON, D.C. 20015

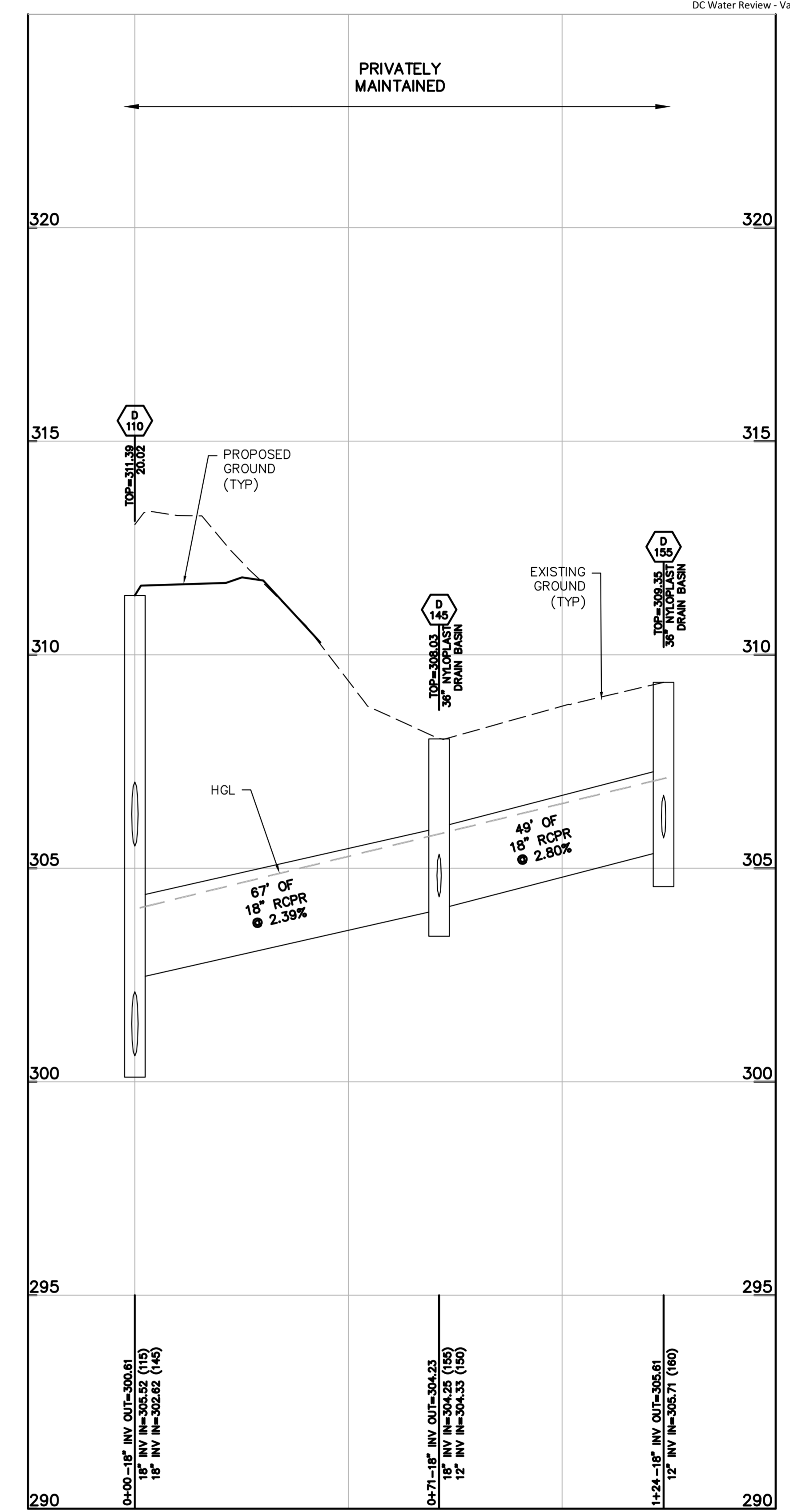
UTILITY PROFILES



D100 TO D135
 HORIZ. 1"=20
 VERT. 1"=2
 (NEBRASKA AVE, NW)



D115 TO D134
 HORIZ. 1"=20
 VERT. 1"=2
 (ON SITE)



D110 TO D155
 HORIZ. 1"=20
 VERT. 1"=2
 (ON SITE)

Storm Drainage Computations																				
Structure		Local Flow				Cumulative Flow			Pipe Information					Profile	Top					
From	To	Area (Ac)	Runoff C. Value	CA	Tc (min)	Intensity (I)	Qnew (CFS)	Total Area (Ac)	Qtotal (CFS)	Diameter (in)	Slope (%)	Length (ft)	Material	n Factor	Qmax (CFS)	V (FPS)	Upper Invert	Lower Invert	(ft)	
D160	D155	0.07	0.35	0.03	5.00	7.56	0.20	0.07	0.03	0.20	12	3.18%	5	HDPE	0.012	6.90	3.28	305.85	305.71	83.64
D155	D145	0.00	0.35	0.00	5.02	7.55	0.00	0.07	0.03	0.20	18	2.92%	47	HDPE	0.012	19.51	5.23	305.61	304.25	83.18
D150	D145	0.11	0.35	0.04	5.00	7.56	0.30	0.11	0.04	0.30	12	3.84%	4	HDPE	0.012	7.58	3.84	304.47	304.33	82.79
DICT1	D115	3.21	0.90	2.89	5.00	7.56	21.86	3.21	2.89	21.86	18	2.12%	98	HDPE	0.012	16.62	0.59	308.51	306.43	306.43
D120	D115	0.86	0.78	0.67	5.00	7.56	5.06	0.86	0.67	5.06	12	2.25%	4	PVC	0.010	6.97	8.56	310.82	310.73	310.73
D145	D110	0.00	0.00	0.00	5.17	7.51	0.00	0.19	0.07	0.49	18	2.56%	63	HDPE	0.012	18.24	3.85	304.23	302.62	302.62
D115	D110	0.00	0.00	0.00	7.78	6.79	0.00	4.07	3.56	24.21	18	5.00%	17	HDPE	0.012	25.51	15.07	306.37	305.52	305.52
D110	D100	0.00	0.00	0.00	5.44	7.42	0.00	4.26	3.63	26.93	18	0.59%	49	RCP	0.015	7.02	0.25	300.61	300.32	300.32
D100	EX SD	0.00	0.00	0.00	8.73	6.57	0.00	4.26	3.63	23.84	18	5.48%	147	RCP	0.015	21.37	0.76	300.14	292.08	292.08

Hydraulic Grade Line Computations																									
Structures		Friction Loss										Junction Loss							Results						
Structure	Downstream	WSE	DO (in)	QO	LO	n	R	Sf%	Hf	Vo	HO	Qi	di	Vi	Qj/Vi	V12/Zg	Hi	Angle	HA	Qsrf	Ht	plng 1.3"Ht	Final H	Inlet WSE	Rim Elevation
D160	D155	305	18	0.195	47	0.012	0.05	8.99%	4.23	0.11	0.00	0.20	12	0.25	0.005	0.000	0.000	90	0.00	0	0.00	0.00	4.23	309.68	83.18
D155	D145	304	18	0.49	63	0.012	0.12	1.68%	1.06	0.28	0.00	0.20	18	0.11	0.002	0.000	0.000	0	0.00	0	0.00	0.00	1.06	304.88	0.00
D150	D145	304	18	0.49	63	0.012	0.12	1.68%	1.06	0.28	0.00	0.30	12	0.38	0.11	0.002	0.001	90	0.00	0	0.00	0.00	1.06	304.88	0.00
DICT1	D115	307	18	24.21	17	0.012	0.45	4.24%	0.72	13.70	0.73	21.86	18	12.37	270.50	2.377	0.832	0	0.00	0	1.56	1.56	2.28	309.00	0.00
D120	D115	307	18	24.21	17	0.012	0.45	4.24%	0.72	13.70	0.73	5.06	12	6.45	32.64	0.645	0.226	0	0.00	0	0.95	1.24	1.96	308.68	0.00
D145	D110	302	18	26.93	49	0.015	0.38	8.75%	4.29	15.24	0.90	0.49	18	0.28	0.14	0.001	0.000	90	0.00	0	0.90	1.17	5.46	306.98	0.00
D115	D110	302	18	26.93	49	0.015	0.38	8.75%	4.29	15.24	0.90	24.21	18	13.70	331.54	2.913	1.020	135	0	0	0	0	0	306.98	0.00
D110	D100	293	18	23.84	147	0.015	0.38	6.86%	10.08	13.49	0.71	26.93	18	15.24	410.37	3.606	1.262	90	2.51	0	4.48	4.48	14.56	307.84	0.00

TEST PIT NOTE:
 INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION, ELEVATIONS, AND SIZES OF EX. UTILITIES BY DIGGING TESTS PITS BY HAND AT ALL POINTS OF CONNECTION AND AT CROSSINGS. RESULTS FROM THESE TEST PITS SHALL BE SUBMITTED TO THE ARCHITECT FIVE (5) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION AND/OR ORDERING MATERIALS.

DATE: 23-FEB-2023

DES. KUO DWN. BUR

SCALE: AS SHOWN

PROJECT/FILE NO. VC0626D

SHEET NO. CIV1000

NOTE:
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FOR LOCATION OF UTILITIES CALL 8-1-1 OR 1-800-257-7777 OR LOG ON TO OR 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY

VKA CAPITOL, LLC
 PROFESSIONAL ENGINEER
 3/17/2023