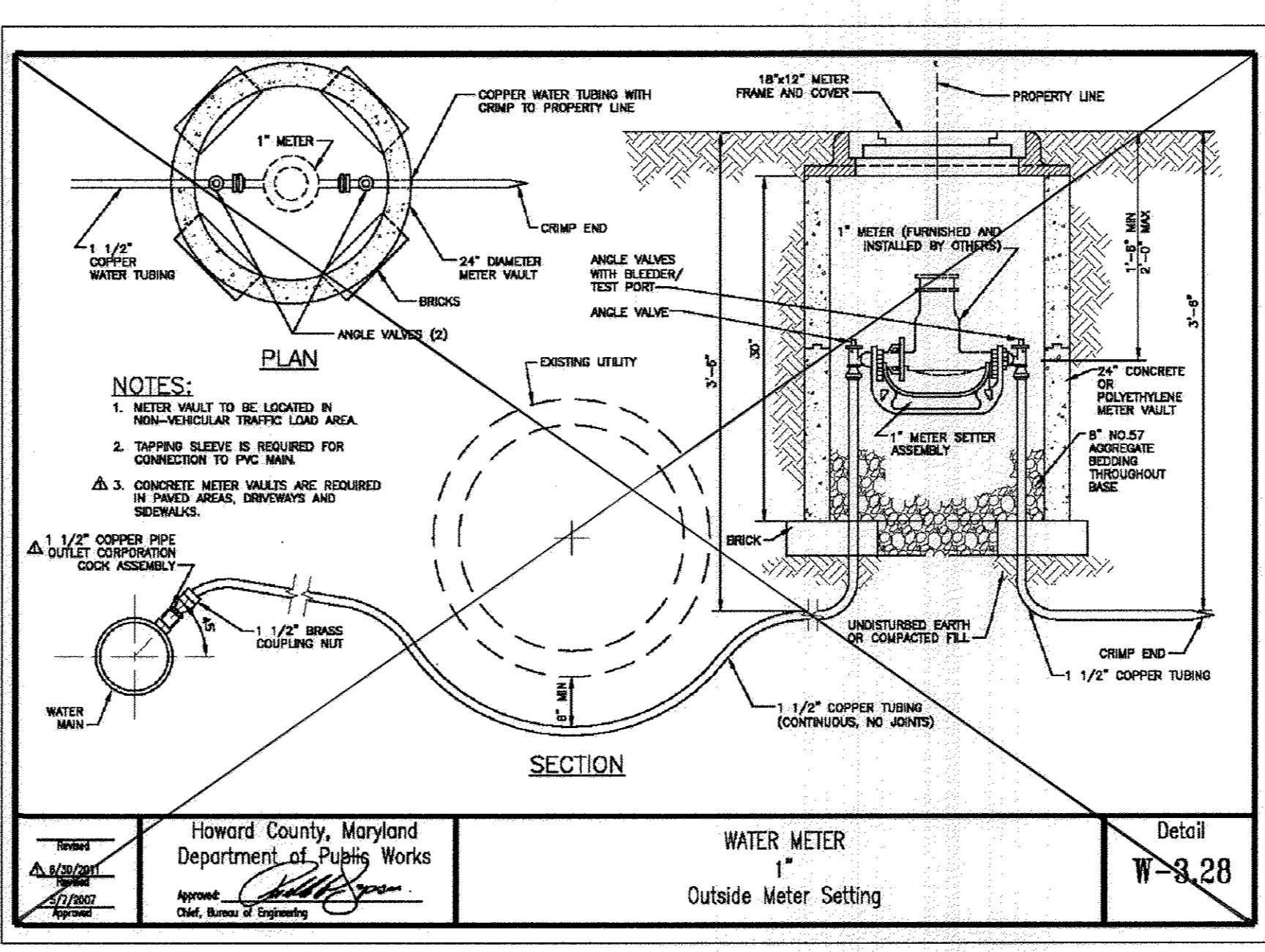
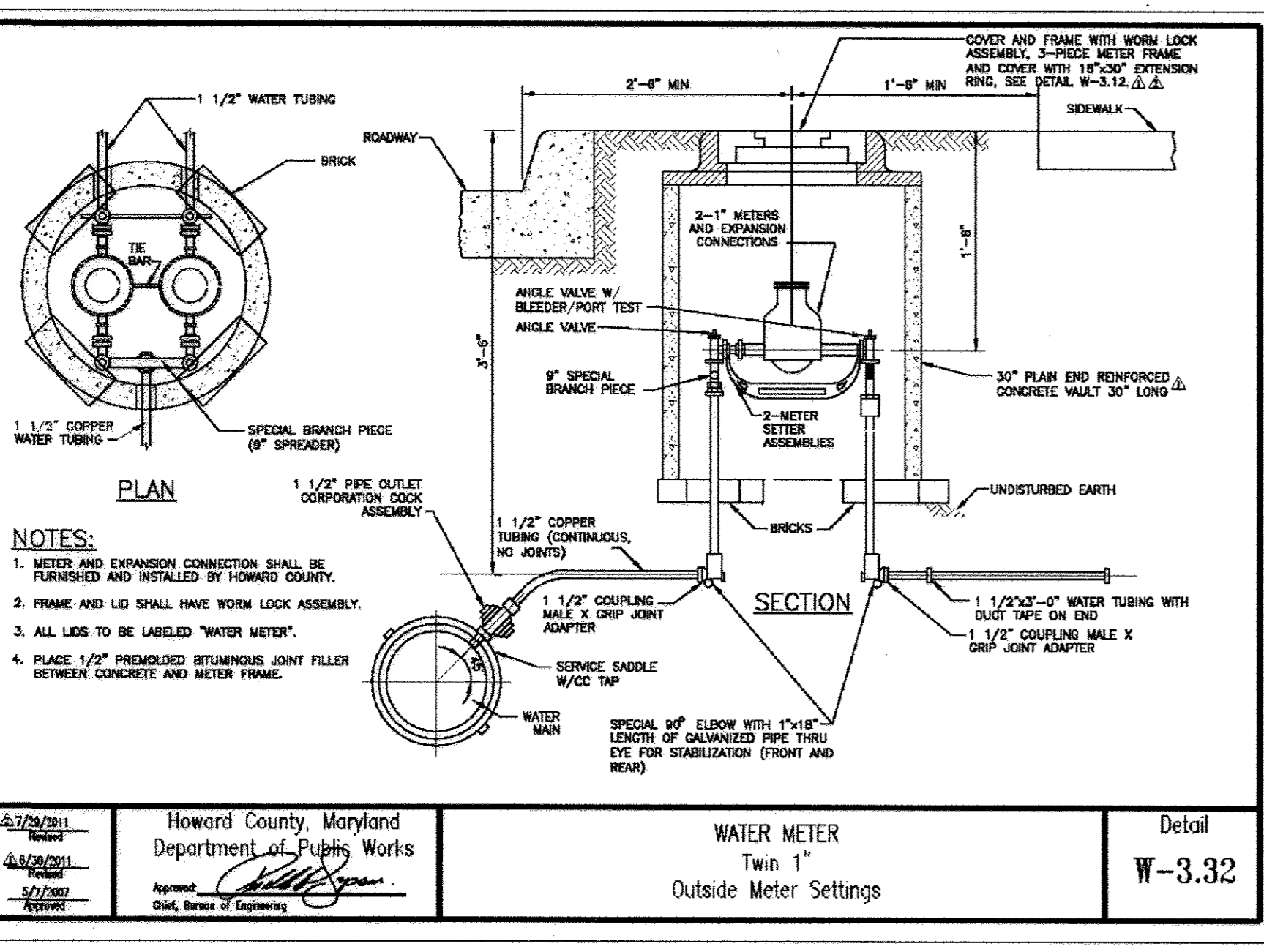


Lot Number	S/L Sta	Invert @ main	SHC	Invert @ PUE	Minimum Cellar	Notes
246	2+89.36	236.94	2.00%	237.66	241.52	#14-4710-D
247	2+89.36	236.94	2.00%	237.66	241.52	#14-4710-D
248	2+49.36	235.54	2.00%	236.26	240.12	#14-4710-D
249	2+49.36	235.54	2.00%	236.26	240.12	#14-4710-D
250	2+21.36	234.56	2.00%	235.37	239.23	#14-4710-D
251	1+86.07	233.32	2.00%	234.13	237.99	#14-4710-D
252	1+54.07	232.20	2.00%	232.92	236.78	#14-4710-D
253	1+54.07	232.20	2.00%	232.92	236.78	#14-4710-D
254	1+14.07	230.80	2.00%	231.62	235.38	#14-4710-D
255	1+14.07	230.80	2.00%	231.52	235.38	#14-4710-D
256	+81.36	229.65	2.00%	230.46	234.32	#14-4710-D
257	+54.07	228.69	2.00%	229.41	233.27	#14-4710-D
258	+54.07	228.69	2.00%	229.41	233.27	#14-4710-D
259	2+37.76	225.22	2.00%	225.42	229.52	#14-4710-D
260	2+00.76	223.93	2.00%	224.21	228.31	#14-4710-D
261	2+00.76	223.93	2.00%	224.21	228.31	#14-4710-D
262	+480.76	222.53	2.00%	222.81	226.91	#14-4710-D
263	+180.76	222.53	2.00%	222.81	226.91	#14-4710-D
264	+105.47	220.59	2.00%	220.87	224.97	#14-4710-D
265	+105.47	220.59	2.00%	220.87	224.97	#14-4710-D
266	+65.47	219.19	2.00%	219.47	223.57	#14-4710-D
267	+65.47	219.19	2.00%	219.47	223.57	#14-4710-D
268	+47.8	220.27	2.00%	220.55	224.35	PUBLIC
269	+70.3	221.40	2.00%	221.68	225.48	PUBLIC
270	+	223.25	2.00%	223.45	227.25	PUBLIC @ MH-39
271	+	223.25	2.00%	223.45	227.25	PUBLIC @ MH-39
272	+	223.75	2.00%	223.95	227.75	PUBLIC @ MH-35
273	+	223.75	2.00%	223.95	227.75	PUBLIC @ MH-35
274	+80.23	232.95	2.00%	233.32	237.12	PUBLIC
275	+55.23	232.45	2.00%	232.73	236.53	PUBLIC
276	+55.23	232.45	2.00%	232.73	236.53	PUBLIC
277	+37.75	232.11	2.00%	232.68	236.28	PUBLIC
278	+75.23	232.85	2.00%	233.33	236.93	PUBLIC
279	+75.23	232.85	2.00%	233.33	236.93	PUBLIC
280	+	233.75	2.00%	234.23	237.83	PUBLIC @ MH-35
281	+	233.75	2.00%	234.23	237.83	PUBLIC @ MH-35
282	+	233.25	2.00%	233.65	227.25	PUBLIC @ MH-39
283	+	233.25	2.00%	233.65	227.25	PUBLIC @ MH-39
284	+85.3	221.15	2.00%	221.63	225.23	PUBLIC
285	+85.3	221.15	2.00%	221.63	225.23	PUBLIC
286	+65.23	226.81	2.00%	227.09	230.89	PUBLIC
287	+65.23	226.81	2.00%	227.09	230.89	PUBLIC
288	+90.23	227.84	2.00%	228.21	232.01	PUBLIC
289	+	229.40	2.00%	229.60	233.40	PUBLIC @ MH-41
290	+	229.40	2.00%	229.60	233.40	PUBLIC @ MH-41
291	+	241.95	2.00%	242.15	245.95	PUBLIC @ MH-36
292	+	241.95	2.00%	242.15	245.95	PUBLIC @ MH-36
293	+60.23	241.15	2.00%	241.52	245.32	PUBLIC
294	+38.23	240.73	2.00%	241.10	244.90	PUBLIC
295	+55.23	241.05	2.00%	241.53	245.13	PUBLIC
296	+55.23	241.05	2.00%	241.53	245.13	PUBLIC
297	+	241.95	2.00%	242.35	245.95	PUBLIC @ MH-36
298	+	241.95	2.00%	242.35	245.95	PUBLIC @ MH-36
299	+	229.40	2.00%	229.80	233.40	PUBLIC @ MH-41
300	+	229.40	2.00%	229.80	233.40	PUBLIC @ MH-41
301	+85.23	227.64	2.00%	228.12	231.72	PUBLIC
302	+85.23	227.64	2.00%	228.12	231.72	PUBLIC
303	+57.23	228.48	2.00%	227.06	230.65	PUBLIC
304	+52.48	224.92	2.00%	225.20	229.00	PUBLIC
305	+52.48	224.92	2.00%	225.20	229.00	PUBLIC
306	+92.48	225.55	2.00%	225.83	229.63	PUBLIC
307	+92.48	225.55	2.00%	225.83	229.63	PUBLIC
308	+127.48	226.10	2.00%	226.47	230.27	PUBLIC
309	+	226.60	2.00%	226.80	230.60	PUBLIC @ MH-40
310	+	226.60	2.00%	226.80	230.60	PUBLIC @ MH-40
311	+41.48	224.75	2.00%	225.23	228.83	PUBLIC
312	+41.48	224.75	2.00%	225.23	228.83	PUBLIC
313	+73.48	225.25	2.00%	225.73	229.33	PUBLIC
314	+73.48	225.25	2.00%	225.73	229.33	PUBLIC
315	+105.48	225.76	2.00%	226.24	229.84	PUBLIC
316	+105.48	225.76	2.00%	226.24	229.84	PUBLIC
317	+137.48	226.26	2.00%	226.74	230.34	PUBLIC
318	+137.48	226.26	2.00%	226.74	230.34	PUBLIC
319	+	224.85	2.00%	225.25	228.85	PUBLIC @ MH-38
320	+	224.85	2.00%	225.25	228.85	PUBLIC @ MH-38
321	+105.53	223.16	2.00%	223.64	227.24	PUBLIC
322	+105.53	223.16	2.00%	223.64	227.24	PUBLIC
323	+73.51	221.56	2.00%	222.04	225.64	PUBLIC
324	+73.51	221.56	2.00%	222.04	225.64	PUBLIC
325	+41.5	219.96	2.00%	220.44	224.04	PUBLIC
326	+41.5	219.96	2.00%	220.44	224.04	PUBLIC
327	+48.35	220.30	2.00%	220.58	224.38	PUBLIC
328	+48.35	220.30	2.00%	220.58	224.38	PUBLIC
329	+88.37	222.30	2.00%	222.58	226.38	PUBLIC
330	+88.37	222.30	2.00%	222.58	226.38	PUBLIC
331	+128.39	224.30	2.00%	224.58	228.38	PUBLIC
332	+128.39	224.30	2.00%	224.58	228.38	PUBLIC
333	+26	228.73	2.00%	229.45	233.31	PUBLIC
334	+26	228.73	2.00%	229.45	233.31	PUBLIC
335	+58	230.33	2.00%	231.14	235.00	PUBLIC
336	+25.59	232.63	2.00%	233.35	237.21	PUBLIC
337	+25.59	232.63	2.00%	233.35	237.21	PUBLIC
338	+65.59	234.63	2.00%	235.35	239.21	PUBLIC
339	+65.59	234.63	2.00%	235.35	239.21	PUBLIC
340	+105.59	236.63	2.00%	237.35	241.21	PUBLIC
341	+105.59	236.63	2.00%	237.35	241.21	PUBLIC
342	+145.59	238.63	2.00%	239.35	243.21	PUBLIC
343	+145.59	238.63	2.00%	239.35	243.21	PUBLIC
344	+32.01	241.55	2.00%	242.27	246.13	PUBLIC
345	+32.01	241.55	2.00%	242.27	246.13	PUBLIC
346	+	243.25	2.00%	243.89	247.75	PUBLIC @ MH-34

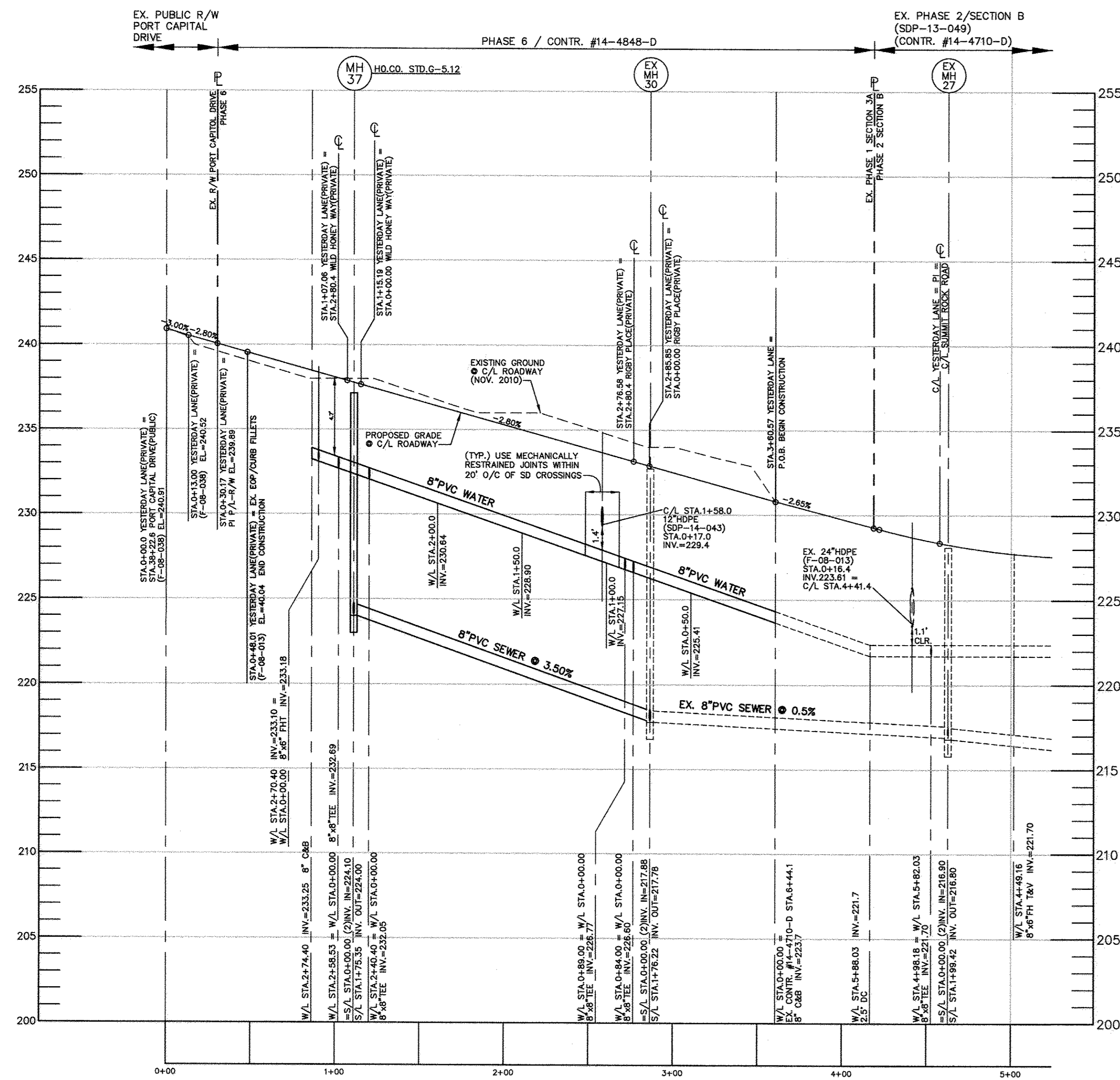


NOTE: ALL WATER HOUSE CONNECTIONS ARE TO BE 1.5" WITH A 1" METER (OUTSIDE SETTING).

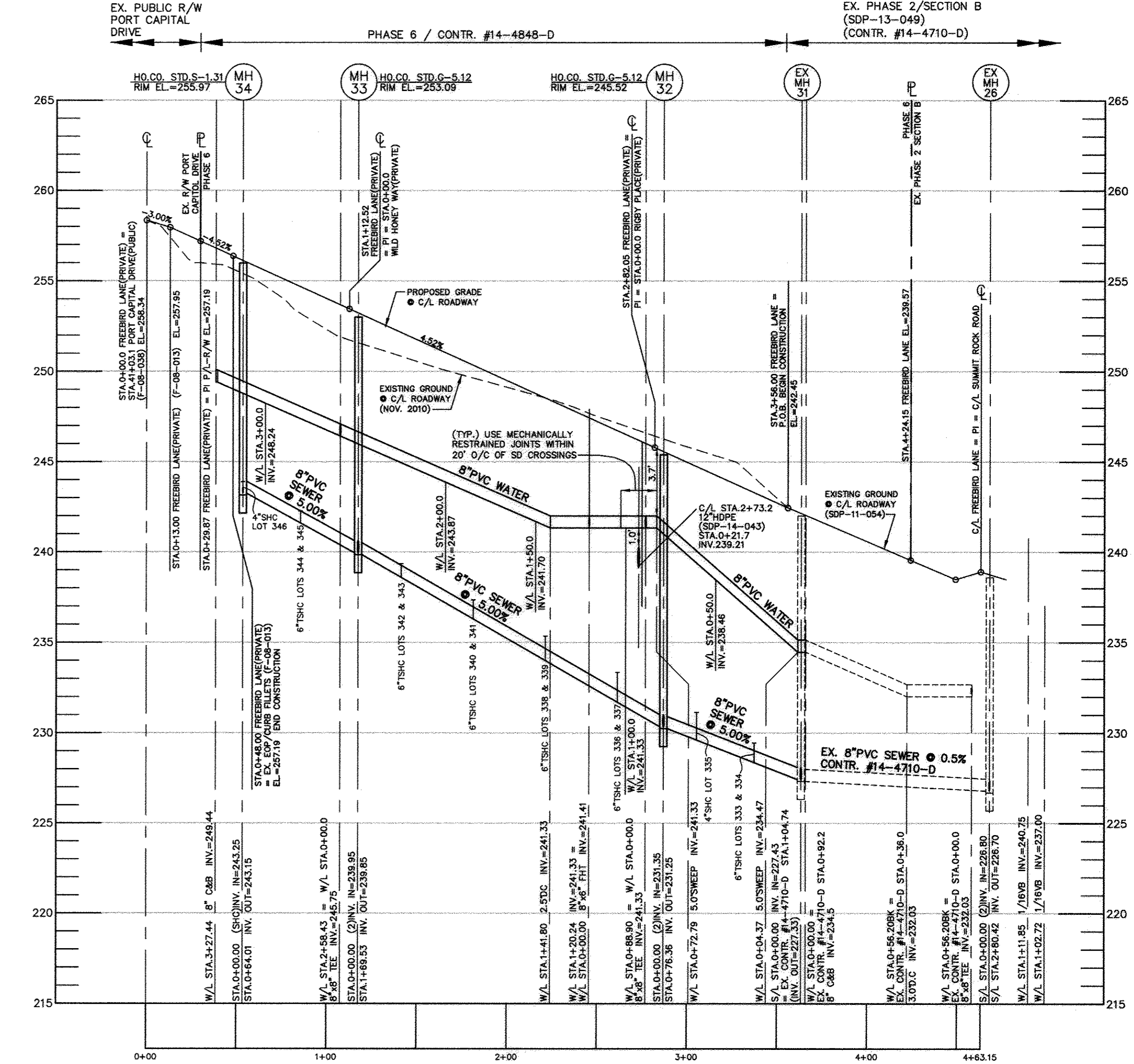
NOTE: HOUSE CONNECTIONS TO BE SIZED ACCORDINGLY:
SINGLE WHC = 1-1/2"
TWIN WHC = 1-1/2"
SINGLE SHC = 4"
TWIN SHC = 6"x4"

NOTE: ALL JOINTS AND CONNECTIONS LOCATED WITHIN STRUCTURAL FILL AREAS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Chief, Bureau of Utilities DATE: 5/20/14	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND Chief, Development Engineering Division DATE: 6-5-14	BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE SUITE 313 ELLICOTT CITY, MARYLAND 21043 (P) 410-485-8105 (F) 410-485-6644 WWW.BE-CVLENGINEERING.COM	DES: MCR DRN: MCR CHK: CAM DATE: 05/21/2014 BY: NO. AS-BUILTS REVISIONS: 1/15/14 DATE: 600 SCALE MAPS: 43 BLOCKS: 3 & 9	PUBLIC WATER AND SEWER PLAN VIEW	HOWARD SQUARE PHASE 6 LOTS 246-346 & OPEN SPACE LOT 347 TAX MAP 43, PARCEL A-3, GRIDS 3 & 9 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT No. 14-4848-D	SCALE: AS SHOWN SHEET NO. 2 OF 4
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UTILITY PROFILE - YESTERDAY LANE
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 5'



UTILITY PROFILE - FREEBIRD LANE
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 5'

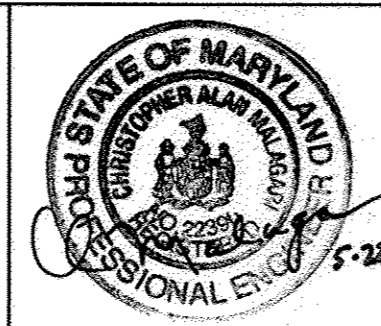
NOTE: HOUSE CONNECTIONS TO BE SIZED ACCORDINGLY:
 SINGLE WHC = 1-1/2"
 TWIN WHC = 1-1/2"
 SINGLE SHC = 4"
 TWIN SHC = 6"x4"

NOTE: ALL JOINTS AND CONNECTIONS LOCATED WITHIN STRUCTURAL FILL AREAS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 DATE: 5/21/14

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 DATE: 5/21/14

BENCHMARK
 ENGINEERS & LAND SURVEYORS & PLANNERS
 ENGINEERING, INC.
 8400 BALTIMORE NATIONAL PIKE
 SUITE 310
 ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-8105 (F) 410-465-8644
 WWW.BE-CIVILENGINEERING.COM

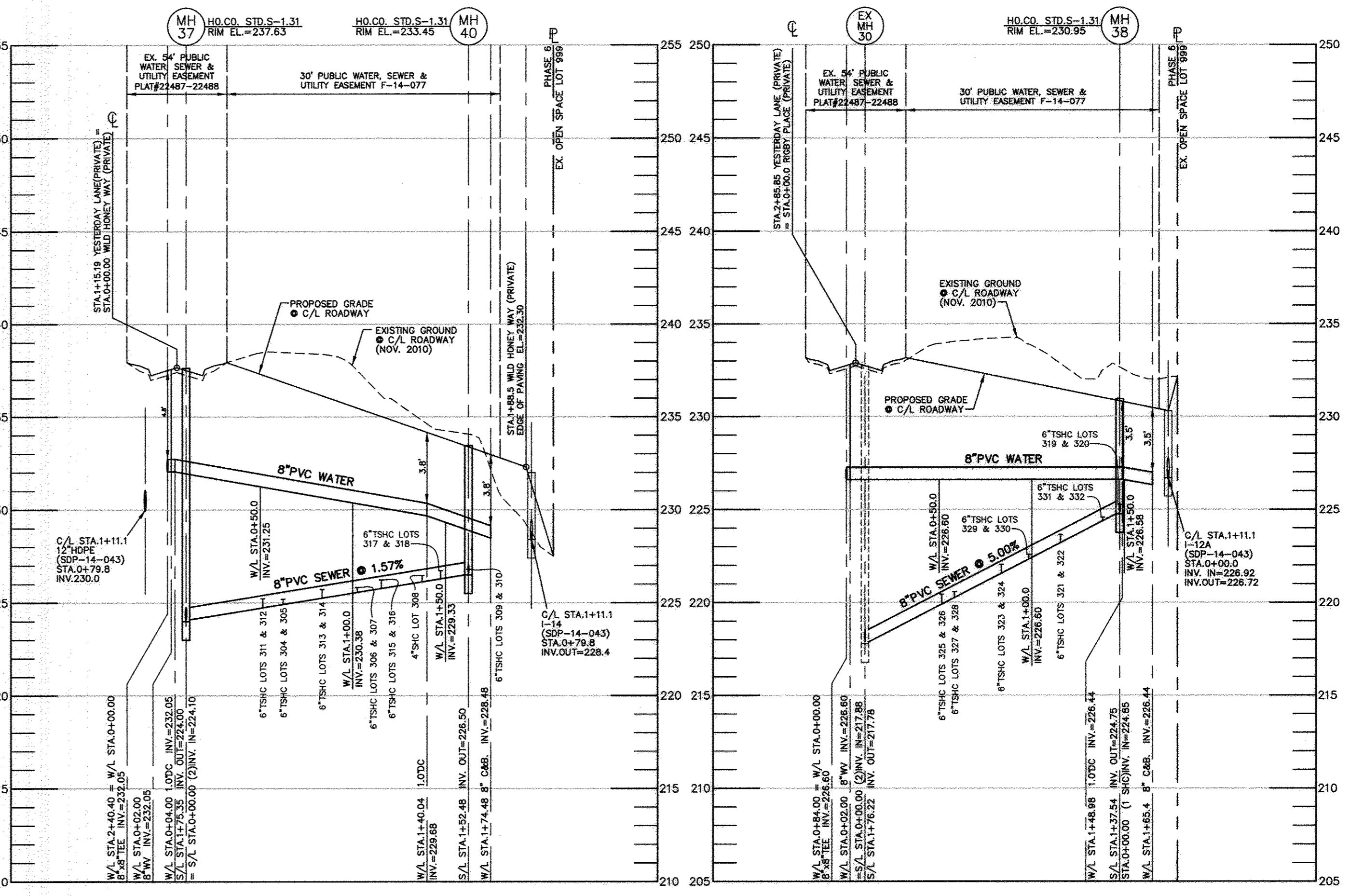
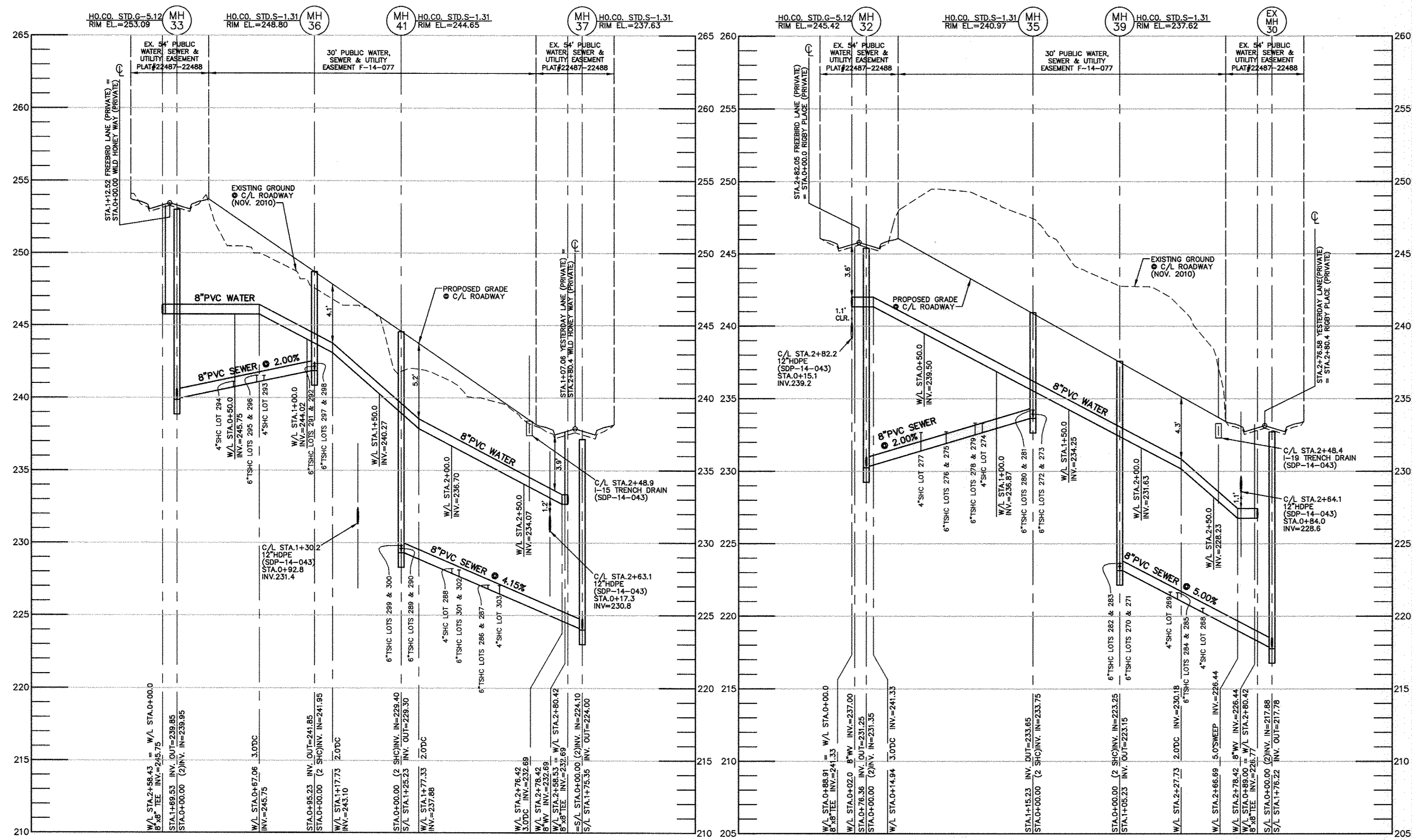


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CHK:	CAM		
DATE:	05/21/2014		
BY:	NO.	REVISIONS	DATE

**PUBLIC WATER AND SEWER
 PROFILE VIEWS**

HOWARD SQUARE
 PHASE 6
 LOTS 246-346 & OPEN SPACE LOT 347
 TAX MAP 43, PARCEL A-3, GRIDS 3 & 9
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
CONTRACT No. 14-4848-D

SCALE:
 AS SHOWN
 SHEET NO.
 3 OF 4



UTILITY PROFILE -- WILD HONEY WAY
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

UTILITY PROFILE -- RIGBY PLACE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

UTILITY PROFILE -- WILD HONEY WAY
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

UTILITY PROFILE -- RIGBY PLACE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

SEWER MANHOLE - STRUCTURE SCHEDULE								
NO.	TYPE	LOCATION	INVERT IN	SHC INV.	INVERT OUT	TOP ELEV.	HO.CO. STD.	REMARKS
EX. MH-30	STD. 4.0' PRE-CAST	YESTERDAY LANE	(3) 217.88	-	217.78	232.74	G-5.15	EX. CONTR. #14-4710-0
EX. MH-31	STD. 4.0' PRE-CAST	FREEBIRD LANE	227.43	-	227.33	242.00	G-5.12	EX. CONTR. #14-4710-0
MH-32	STD. 4.0' PRE-CAST	FREEBIRD LANE	(2) 231.35	-	231.25	248.42	G-5.12	-
MH-33	STD. 4.0' PRE-CAST	FREEBIRD LANE	(2) 239.95	-	239.85	253.09	G-5.12	-
MH-34	TERMINAL	FREEBIRD LANE	-	243.25	243.15	255.97	S-1.31	-
MH-35	TERMINAL	RIGBY PLACE / FREEBIRD LANE	-	(2) 233.75	233.65	240.97	S-1.31	-
MH-36	TERMINAL	WILD HONEY WAY / FREEBIRD LANE	-	(2) 241.85	241.75	248.80	S-1.31	-
MH-37	STD. 4.0' PRE-CAST	YESTERDAY LANE	224.10	-	224.00	237.63	G-5.15	-
MH-38	TERMINAL	RIGBY PLACE / YESTERDAY LANE	-	224.85	224.75	230.95	G-5.15	-
MH-39	TERMINAL	RIGBY PLACE / YESTERDAY LANE	-	(2) 223.25	223.15	237.62	G-5.12	-
MH-40	TERMINAL	WILD HONEY WAY / YESTERDAY LANE	-	228.60	228.50	233.45	G-5.12	-
MH-41	TERMINAL	WILD HONEY WAY / YESTERDAY LANE	-	(2) 228.40	228.30	244.65	G-5.12	-

NOTES:
1. STRUCTURE LOCATION FOR MANHOLES IS AT THE CENTER OF THE STRUCTURE.

WATER LINE DATA CHART				
APPURTENANCE	WATERLINE STATION	LOCATION	OFFSET	COMMENT
EX. 8" CAP & BUTTRESS	EX. 6+44.1 = 0+00.00	YESTERDAY LANE STA.3+60.5	5.0 RT.	EX. 8" CAP & BUTT. - POB
8" 90° TEE = PI	0+84.00 = 0+00.00	YESTERDAY LANE STA.2+78.58	5.0 RT.	PI - RIGBY PLACE
8" 90° TEE = PI	0+89.00 = 2+80.42	YESTERDAY LANE STA.2+71.58	5.0 RT.	PI - RIGBY PLACE
8" 90° TEE = PI	2+40.40 = 0+00.00	YESTERDAY LANE STA.1+20.19	5.0 RT.	PI - WILD HONEY WAY
8" 90° TEE = PI	2+58.53 = 2+80.42	YESTERDAY LANE STA.1+02.08	5.0 RT.	PI - WILD HONEY WAY
8" 90° FH TEE	2+70.40	YESTERDAY LANE STA.0+90.19	5.0 RT.	-
FIRE HYDRANT	2+70.40 (13.10 LT.)	YESTERDAY LANE STA.0+90.19	18.1 LT.	BURY HT. = 5.5'
8" CAP & BUTTRESS	2+74.40	YESTERDAY LANE STA.0+86.19	5.0 RT.	POB = P/L
EX. 8" CAP & BUTTRESS	EX. 0+92.2 = 0+00.00	FREEBIRD LANE STA.3+68.0	5.0 RT.	EX. 8" CAP & BUTT. - POB
8" 90° TEE = PI	0+88.90 = 0+00.00	FREEBIRD LANE STA.2+77.05	5.0 RT.	PI - RIGBY PLACE
8" W	0+90.90 = 0+00.00	FREEBIRD LANE STA.2+75.05	5.0 RT.	-
8" 90° FH TEE	1+20.24	FREEBIRD LANE STA.2+45.72	5.0 RT.	-
FIRE HYDRANT	1+53.24 (23.10 LT.)	FREEBIRD LANE STA.2+45.72	18.1 LT.	BURY HT. = 6.5'
8" 90° TEE = PI	2+58.43 = 0+00.00	FREEBIRD LANE STA.1+07.52	5.0 RT.	PI - WILD HONEY WAY
8" W	2+60.43	FREEBIRD LANE STA.1+05.52	5.0 RT.	-
8" CAP & BUTTRESS	3+27.44	FREEBIRD LANE STA.0+38.51	5.0 RT.	END = R/W
8" 90° TEE = PI	0+89.00 = 2+80.42	YESTERDAY LANE STA.2+71.58	5.0 RT.	PI - RIGBY PLACE
8" 90° TEE = PI	0+88.90 = 0+00.00	FREEBIRD LANE STA.0+39.00	5.0 RT.	PI - RIGBY PLACE
8" 90° TEE = PI	2+58.53 = 2+80.42	YESTERDAY LANE STA.6+57.11	5.0 RT.	PI - WILD HONEY WAY
8" 90° TEE = PI	2+58.43 = 0+00.00	FREEBIRD LANE STA.1+07.52	5.0 RT.	PI - WILD HONEY WAY
8" 90° TEE = PI	2+40.40 = 0+00.00	YESTERDAY LANE STA.1+20.19	5.0 RT.	PI - WILD HONEY WAY
8" CAP & BUTTRESS	1+77.48	YESTERDAY LANE STA.1+20.19	172.48 RT.	END = PUE
8" 90° TEE = PI	0+84.00 = 0+00.00	YESTERDAY LANE STA.2+78.58	5.0 RT.	PI - RIGBY PLACE
8" CAP & BUTTRESS	1+85.39	YESTERDAY LANE STA.2+80.80	180.32 RT.	END = PUE

NOTE: HOUSE CONNECTIONS TO BE SIZED ACCORDINGLY:
SINGLE WHC = 1-1/2"
TWIN WHC = 1-1/2"
SINGLE SHC = 4"
TWIN SHC = 6"x4"

NOTE: ALL JOINTS AND CONNECTIONS LOCATED WITHIN STRUCTURAL FILL AREAS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Steve Green
CHIEF, BUREAU OF UTILITIES

5/30/14
DATE

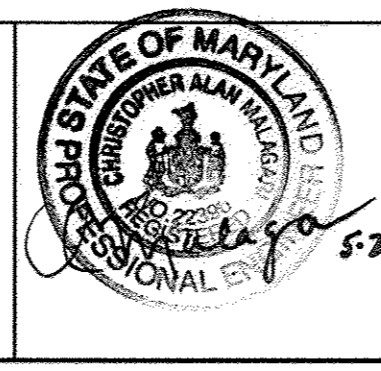
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

John Edlund
CHIEF, DEVELOPMENT ENGINEERING DIVISION

6.5.14
DATE

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.

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(P) 410-465-6105 (F) 410-465-8644
WWW.BEI-CIVLENGINEERING.COM



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DRN:	MCR			
CHK:	CAM			
DATE:	05/21/2014			
BY:	NO.	REVISIONS	DATE	

PUBLIC WATER AND SEWER PROFILE VIEWS

600 SCALE MAPS: 43

BLOCKS: 3 & 9

HOWARD SQUARE
PHASE 6
LOTS 246-346 & OPEN SPACE LOT 347
TAX MAP 43, PARCEL A-3, GRIDS 3 & 9
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT No. 14-4848-D

SCALE:
AS SHOWN

SHEET NO.
4 OF 4