



CONSULTANT:

GENERAL SHEET NOTES

- 1. REFER TO C-001 COVER SHEET FOR GENERAL NOTES REFERENCING SURVEY INFORMATION, DATUMS, GENERAL PROJECT AND CONSTRUCTION INFORMATION.
- 2. THE SUBJECT PROPERTY IS LOCATED WITHIN FLOOD ZONE 'X' PER THE FEMA MAP PANEL #36071C0331E, DATED AUGUST 3, 2009.

SYMBOLS LEGEND

PROPERTY BOUNDARY	---
MINOR CONTOUR	-2.50-
MAJOR CONTOUR	-2.50-
ROAD	---
ROAD CURB	---
ROAD CENTERLINE	---
BUILDING SETBACK	---
SANITARY LINE	---
UNDERGROUND POWER LINE	---
OVERHEAD POWER LINE	---
NATURAL GAS LINE	---
WATER LINE	---
WATER METER	⊕
HYDRANT	⊕
VALVE	⊕
STORM SEWER LINE	---
CATCH BASIN	⊕
CURB INLET	⊕
MANHOLE	⊕
END SECTION	---
HEADWALL	---
TREE	⊕
SPOT ELEVATION	⊕
STRUCTURE	⊕
UTILITY POLE	⊕
SURVEY BENCHMARK	⊕

BORING I.D.	SURFACE ELEVATION	BORING DEPTH	GROUNDWATER DEPTH
B-1	±311.50	12'-0"	6'-0"
B-2	±312.50	12'-0"	5'-0"
B-3	±315.00	12'-0"	8'-0"
B-4	±318.00	12'-0"	8'-0"
IT-1	±308.50	8'-0"	N/A
IT-2	±293.50	8'-0"	2'-6"
B-5	±316.00	8'-0"	5'-0"
B-6	±315.50	8'-0"	5'-0"
B-7	±315.50	8'-0"	5'-0"
B-8	±311.25	8'-0"	5'-0"
B-9	±310.25	8'-0"	4'-0"

TESTS WERE CONDUCTED IN MARCH, 2020 BY GIFFORD ENGINEERING. FULL RESULTS FROM THE BORINGS ARE INCLUDED IN THE GEOTECHNICAL REPORT INCLUDED IN THE STORMWATER POLLUTION PREVENTION PLAN ASSOCIATED WITH THIS PROJECT.

NOT FOR CONSTRUCTION
THIS DRAWING PROVIDED ONLY FOR **REVIEW AND APPROVAL**

28 APR 23 SUBMISSION TO TOWN
15 FEB 23 SUBMISSION TO TOWN
11 NOV 22 SUBMISSION TO TOWN
20 OCT 22 GPI CONCEPT FOR REVIEW
16 SEP 22 CONCEPT FOR REVIEW

OWNER:
JW CONGREGATION SUPPORT, INC.
1005 RED MILLS ROAD
WALLKILL, NY 12589-3283

PROJECT TITLE:
NEWBURGH KINGDOM HALL OF JEHOVAH'S WITNESSES
33 OLD LITTLE BRITAIN RD
NEWBURGH, NY 12550

SHEET TITLE:
BOUNDARY AND TOPOGRAPHIC SURVEY

PROJECT No. **37147**

SHEET No. **V-101**

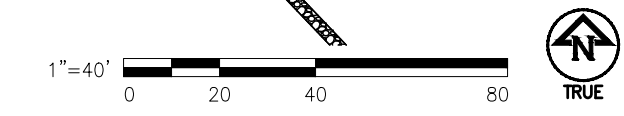
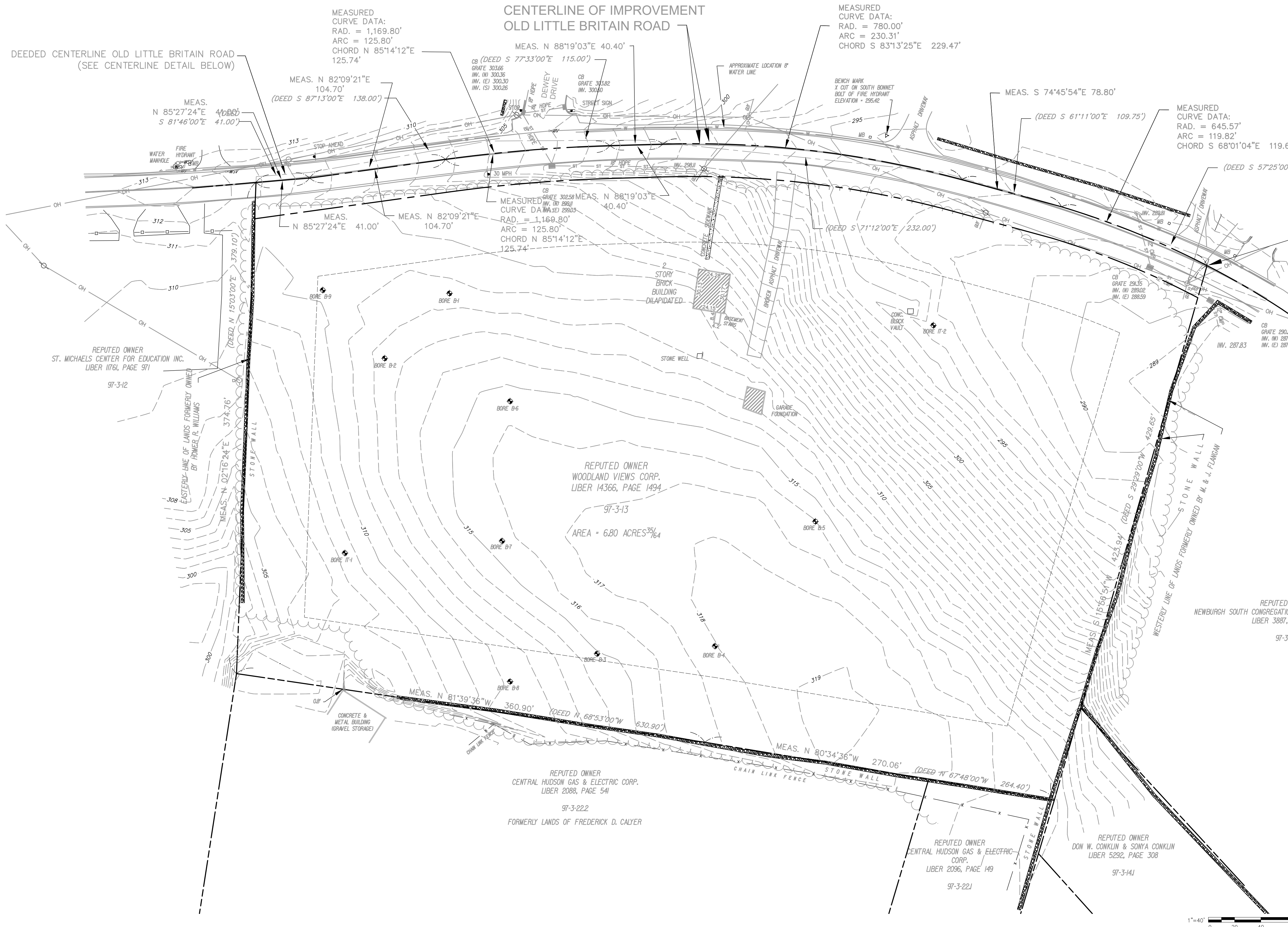


IMAGE: ####
XREF: ####
XREF: ####
XREF: ####
XREF: ####

PLotted BY: DSGN/DRFT:
DIMSCALE: 20.0000
FILE PATH: E:\2022\2200152.00_Newburgh_Civil_Design_JWCSC\CADD\01_CIVIL\USA37035_V-101_Boundary_Topo_Survey.dwg
PLOT DATE: 20.0000
DIMSCALE: 20.0000
FILE PATH: E:\2022\2200152.00_Newburgh_Civil_Design_JWCSC\CADD\01_CIVIL\USA37035_V-101_Boundary_Topo_Survey.dwg

CENTERLINE OF IMPROVEMENT
OLD LITTLE BRITAIN ROAD



CONSULTANT:

NOT FOR CONSTRUCTION
THIS DRAWING PROVIDED ONLY FOR
REVIEW AND APPROVAL

- 28 APR 23 SUBMISSION TO TOWN
- 15 FEB 23 SUBMISSION TO TOWN
- 11 NOV 22 SUBMISSION TO TOWN
- 20 OCT 22 GPI CONCEPT FOR REVIEW
- 16 SEP 22 CONCEPT FOR REVIEW

MARK: DATE: DESCRIPTION:

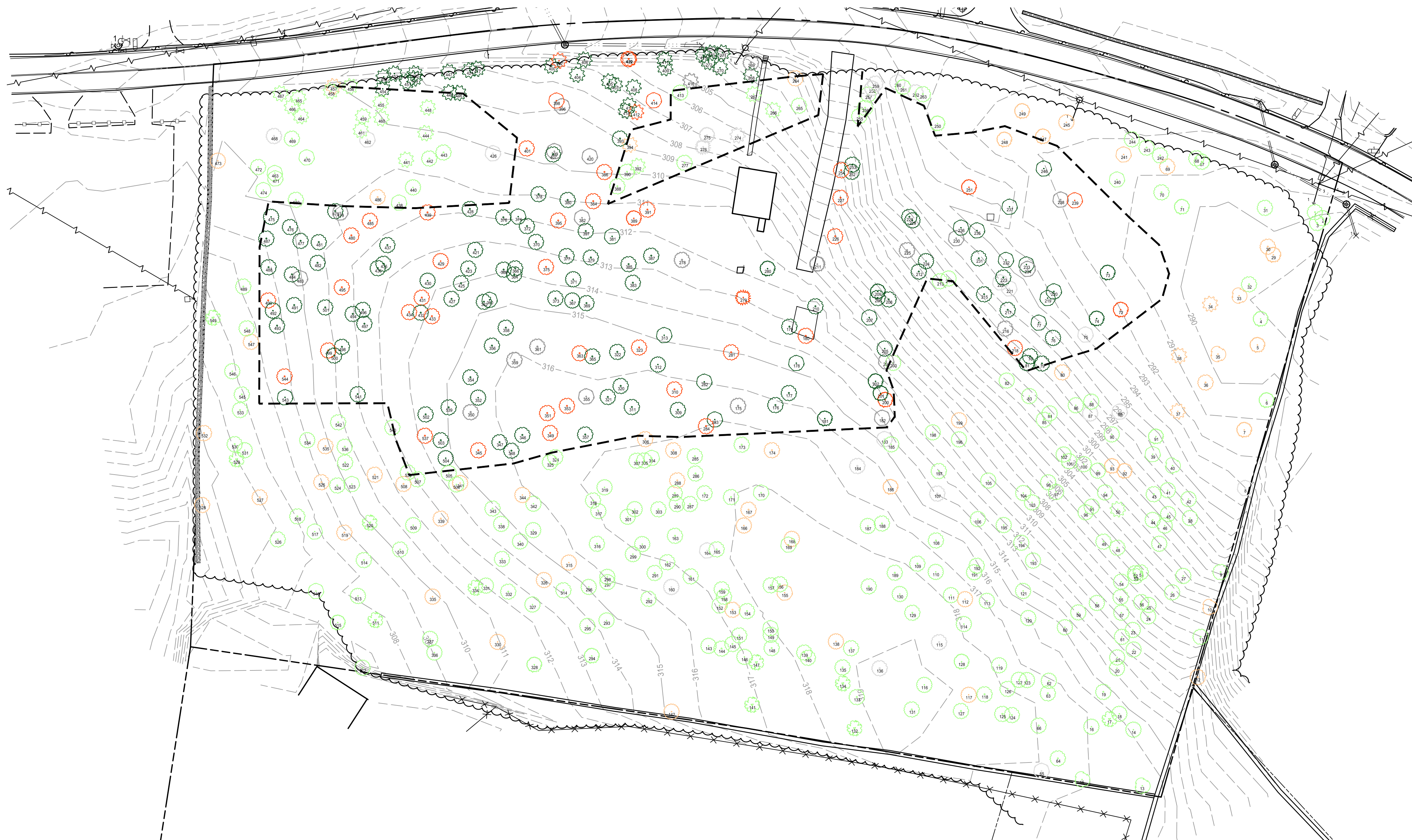
OWNER:
JW CONGREGATION SUPPORT, INC.
1005 RED MILLS ROAD
WALLKILL, NY 12589-3283

PROJECT TITLE:
**NEWBURGH KINGDOM HALL OF JEHOVAH'S WITNESSES
33 OLD LITTLE BRITAIN RD
NEWBURGH, NY 12550**

SHEET TITLE:
TREE SURVEY

PROJECT No. **37147**

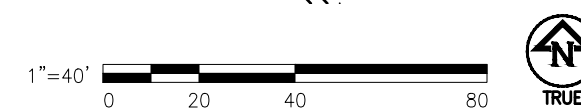
SHEET No. **V-102**



ARBORIST:
Quonika Stover
ISA Certified Arborist NJ-1285A

SYMBOLS LEGEND

- SPECIMEN TREE TO REMAIN (Green circle with black outline)
- SIGNIFICANT TREE TO REMAIN (Green circle with red outline)
- DEAD/DISEASED TREE TO REMAIN (Green circle with black outline and red center)
- SPECIMEN TREE TO BE REMOVED (Red circle with black outline)
- SIGNIFICANT TREE TO BE REMOVED (Red circle with red outline)
- DEAD/DISEASED TREE TO BE REMOVED (Red circle with black outline and red center)
- LIMITS OF DISTURBANCE (Dashed line)



SPECIMEN TREE TABLE

Tree ID #	Tree Species	DBH (in)	Tree Condition
7	Ash	24.75	Fair
10	Black Walnut	23.5	Fair
12	Maple	28	Poor
29	Ash	25.75	Poor
30	Maple	21.5	Fair
34	Elm	21.75	Fair, Poor
36	Maple	23	Fair, Poor
38	Elm	24	Poor
69	Maple	20.75	Fair
72	Ash	24	Fair, Poor
80	Maple	20.25	Fair, Poor
92	Ash	35.75	Poor
93	Ash	27	Fair, Poor
107	Maple	22.25	Damaged
112	Oak	30	Fair, Poor
117	Oak	24.5	Fair, Poor
138	Oak	32	Poor
142	Oak	30.5	Fair, Poor
153	Maple	24	Fair, Poor
155	Black Cherry	20.25	Critical
166	Oak	38.25	Fair, Poor
167	Maple	22.25	Fair, Poor
168	Oak	26.75	Poor
174	Maple	20	Fair, Poor
180	Maple	32.75	Fair, Poor
183	Black cherry	20.25	Diseased, Poor
186	Ash	23.5	Fair, Poor
199	Oak	29.5	Poor

200	Ash	21.25	Fair, Poor
218	Oak	22	Fair, Poor
226	Maple	25	Poor
227	Maple	26.75	Poor
239	Black Cherry	51	Critical
241	Black Cherry	22.25	Poor
245	Oak	25.75	Fair, Poor
247	Ash	20.75	Fair, Poor
248	Ash	22.5	Poor
249	Ash	22.25	Fair, Poor
251	Ash	25.75	Fair, Poor
254	Maple	47.75	Critical
264	Maple	27.25	Critical
269	Maple	28.75	Diseased, Poor
274	Elm	24.25	Dead
276	Douglas Fir	22.75	Diseased
278	Maple	40.25	Dead
279	Pine	32.5	Fair, Poor
281	Maple	27.25	Poor
284	Maple	23	Fair, Poor
288	Maple	34.25	Poor
306	Maple	33.25	Poor, Critical
308	Maple	21.25	Poor
310	Maple	25.25	Poor
315	Oak	25	Poor
323	Maple	36.75	Fair, Poor
326	Oak	23	Poor
330	Oak	22	Fair
335	Oak	32.75	Fair, Poor

339	Maple	25.5	Poor
341	Oak	21.25	Poor
344	Oak	29	Poor
345	Maple	25.25	Poor
349	Maple	23.75	Poor
351	Maple	26	Fair, Poor
353	Maple	23.75	Poor
359	Dead	21.25	Dead, Diseased
361	Dead	21.25	Dead
363	Maple	26.5	Poor
375	Maple	29	Poor
384	Maple	28.25	Poor, Critical
386	Maple	28	Poor
388	Maple	29.25	Poor, Critical
389	Ash	24.25	Fair, Poor
391	Maple	23.5	Poor
394	Elm	20.75	Critical
395	Maple	27	Poor
398	Black cherry	21.75	Critical
399	Black Cherry	34.25	Dead
401	Maple	39.5	Poor
402	Elm	25.75	Poor
412	Elm	26.75	Poor
414	Black Cherry	26.5	Critical
416	Elm	24	Diseased, Poor
419	Maple	22.5	Poor
420	Black Cherry	26.25	Diseased, Critical

422	Elm	26.75	Poor
429	Oak	22	Poor
431	Maple	25.75	Poor
433	Maple	21.75	Poor
434	Maple	20.5	Poor
439	Maple	21	Poor
457	Elm	32.5	Critical
473	Oak	22.25	Fair, Poor
480	Maple	33	Poor
483	Black Cherry	23.25	Diseased, Critical
485	Maple	23	Poor
486	Maple	22.5	Poor
490	Maple	20.75	Poor
495	Maple	23.5	Fair, Poor
499	Maple	24.25	Poor
508	Maple	26.5	Poor
519	Maple	20.75	Poor
521	Maple	21.5	Fair, Poor
525	Maple	23.5	Poor
527	Maple	20	Poor
528	Maple	41.5	Fair, Poor
532	Maple	20.5	Poor
535	Maple	23	Poor
537	Maple	21.75	Fair, Poor
544	Maple	22.25	Poor
547	Maple	21	Fair, Poor

TREE REMOVAL CALCULATIONS

	SPECIMEN	SIGNIFICANT
TOTAL DBH (INCHES)	2,855	6,027
REMOVAL DBH (INCHES)	1,371	1,990
PERCENTAGE REMOVED	48.0	33.1

IMAGE: ####
XREF: ####
IMAGE: ####
XREF: ####
IMAGE: ####
XREF: ####
IMAGE: ####
XREF: ####
IMAGE: ####
XREF: ####

PLotted BY: DSGN.DRTF:
DATE: 20.0000
SCALE: 20.0000
FILE PATH: ES:\2022\2200152.00_Newburgh_Civil_Design_JMCS\CADD\01_CIVIL\US37035_V-102_Tree_Survey.dwg

SIGNIFICANT TREE TABLE

Tree ID #	Tree Species	DBH (in)	Tree Condition
1	Maple	10	Good, Fair
2	Maple	17	Fair
3	Maple	13.25	Critical
4	Ash	11	Poor
5	Ash	15.25	Poor
6	Ash	18.75	Poor
8	Cherry	11.5	Dead
9	Maple	18	Fair
11	Maple	10.75	Fair, Damaged, Poor
13	Black Walnut	15.25	Damaged, Poor
14	Oak	11.5	Good, Fair
15	Black Walnut	16.5	Poor
16	Oak	14.25	Fair
17	Shagbark Hickory	13	Fair
18	Oak	15	Fair
19	Maple	17	Fair
20	Oak	11.75	Fair
21	Oak	14.75	Fair
22	Oak	11.75	Fair
23	Oak	11.25	Fair
24	Oak	11.5	Fair, Poor
25	Oak	10	Fair, Poor
26	Oak	10.75	Fair
27	Oak	11.5	Good
28	Oak	13.25	Fair
31	Maple	12.5	Fair
32	Maple	11.25	Fair, Poor
33	Walnut	19.25	Fair
35	Walnut	18	Fair
37	Elm	18	Poor
39	Black Cherry	11.75	Fair, Poor
40	Walnut	14	Poor
41	Oak	11	Good, Fair
42	Oak	14.75	Fair, Poor
43	Maple	15.25	Fair, Poor
44	Oak	13	Fair
45	Oak	10.75	Fair, Poor
46	Oak	11.25	Fair, Poor
47	Oak	11.75	Fair
48	Maple	10.5	Fair, Poor
49	Maple	10.25	Poor
50	Elm	11.75	Fair, Poor
51	Maple	10.25	Poor
52	Maple	10.75	Poor
53	Maple	11.5	Poor
54	Oak	11.5	Poor
55	Maple	10.25	Poor
56	Maple	10	Fair, Poor
57	Oak	10	Fair
58	Oak	15.25	Fair
59	Oak	19.25	Fair, Poor
60	Oak	11.75	Fair, Poor
61	Oak	11.25	Fair, Poor
62	Oak	14.75	Fair
63	Maple	13.25	Fair, Poor
64	Maple	13.25	Fair
65	Black Cherry	12	Diseased, Critical
66	Maple	10	Fair, Poor
67	Maple	14.25	Poor
68	Maple	19	Fair, Poor
70	Maple	19.5	Fair
71	Ash	12	Fair
73	Ash	19.5	Fair, Poor
74	Ash	12.75	Fair, Damaged, Poor, Critical
75	Black Cherry	18.75	Dead, Critical
76	Oak	15.25	Poor
77	Black Cherry	15.25	Poor
78	Maple	10	Poor
79	Maple	10.25	Fair
81	Oak	16.25	Fair, Poor
82	Oak	10.75	Poor
83	Oak	14.25	Damaged, Poor
84	Oak	13.75	Poor
85	Maple	13.75	Fair, Poor
86	Oak	18.75	Poor
87	Oak	13.25	Dead

88	Oak	13.25	Poor
89	Black Cherry	10.75	Dead
90	Oak	11	Fair, Poor
91	Ash	10.25	Poor
94	Oak	10.25	Poor
95	Oak	10.75	Poor
96	Oak	11.5	Poor
97	Oak	12	Poor
98	Oak	13	Fair, Poor
99	Oak	15.25	Poor
100	Oak	11.75	Poor
101	Oak	16	Poor
102	Oak	11.75	Poor
103	Oak	13.5	Fair, Poor
104	Oak	10.5	Fair
105	Oak	16.25	Fair
106	Oak	19	Fair
108	Maple	11	Fair
109	Maple	16.75	Poor
110	Oak	16.75	Fair, Poor
111	Oak	15	Fair, Poor
113	Oak	13.75	Poor
114	Oak	13.5	Poor
115	Maple	17.25	Dead
116	Oak	11	Fair, Poor
118	Maple	15	Fair, Poor
119	Oak	15	Poor
120	Oak	13	Fair, Poor
121	Oak	14.25	Fair, Poor
122	Oak	12	Fair, Poor
123	Oak	11.5	Poor
124	Maple	15.5	Poor
125	Maple	12.25	Damaged, Fair, Poor
126	Maple	10	Poor
127	Maple	10.75	Fair, Poor
128	Ash	10.25	Fair, Poor
129	Maple	12	Fair, Poor
130	Oak	20	Poor
131	Maple	12.75	Fair
132	Hickory	12.75	Fair, Poor
133	Maple	15.75	Poor
134	Shagbark Hickory	12.5	Fair, Poor
135	Maple	18.5	Fair, Poor
136	Dead	12.5	Dead
137	Maple	10.75	Fair, Poor
139	Maple	11.75	Fair, Poor
140	Maple	13.25	Fair
141	Hickory	11.5	Fair
143	Oak	12.5	Good, Fair
144	Maple	11	Fair
145	Maple	11	Fair, Poor
146	Oak	16.75	Poor
147	Shagbark Hickory	11	Fair, Poor
148	Maple	11.5	Fair
149	Oak	14.75	Poor
150	Black Cherry	11.5	Fair, Poor
151	Maple	15.5	Fair, Poor
152	Black Cherry	10.25	Damaged, Critical
154	Maple	10	Fair, Poor
156	Maple	14.75	Fair, Poor
157	Maple	13.25	Fair
158	Maple	12.5	Fair, Poor
159	Maple	11.5	Fair, Poor
160	Oak	15	Diseased, Poor, Critical
161	Maple	16.75	Poor
162	Maple	10.25	Fair, Poor
163	Maple	18.25	Fair, Poor
164	Black Cherry	12.5	Dead, Diseased
165	Maple	14.5	Fair, Poor
169	Black Cherry	12.75	Poor
170	Black Cherry	18.75	Poor
171	Maple	13	Fair, Poor
172	Maple	19.75	Fair, Poor
173	Maple	18	Fair, Poor
175	Dead	14.5	Dead
176	Maple	12.5	Fair, Poor
177	Maple	11.75	Fair, Poor

178	Black Cherry	16	Damaged, Poor
179	Maple	14.25	Fair, Poor
181	Ash	12.5	Fair, Poor
182	Black cherry	16.75	Diseased, Critical
184	Maple	10.5	Dead, Critical
185	Oak	15.5	Fair, Poor
187	Oak	10.75	Poor
188	Maple	10	Fair, Poor
189	Maple	10.25	Critical
190	Maple	15	Fair, Poor
191	Oak	11.75	Fair, Poor
192	Maple	12.5	Poor
193	Oak	14.75	Fair
194	Linden	11.5	Fair, Poor
195	Oak	11	Fair, Poor
196	Oak	18.75	Fair
197	Maple	11.75	Fair
198	Oak	19.25	Fair
201	Ash	13.5	Poor
202	Ash	19.5	Fair, Poor
203	Oak	15.75	Fair, Poor, Dead
204	Black cherry	11	Diseased
205	Oak	15.25	Fair, Poor
206	Maple	12.5	Fair, Poor
207	Black Cherry	15.5	Poor
208	Maple	12.75	Fair, Poor
209	Ash	18.5	Fair, Poor
210	Maple	18.25	Fair, Poor, Diseased, Critical
211	Ash	13.75	Fair, Poor
212	Maple	10	Poor
213	Maple	12.75	Poor
214	Oak	13	Fair, Poor
215	Maple	16	Fair, Poor
216	Maple	14	Dead
217	Maple	18.75	Poor
219	Black Cherry	17.25	Poor
220	Black Cherry	15	Fair, Poor
221	Dead	17.5	Dead
222	Black cherry	17.25	Dead, Diseased
223	Maple	11	Fair, Poor
224	Oak	18.25	Fair, Poor
225	Maple	15.5	Diseased, Poor
228	Maple	12.75	Poor
229	Oak	13	Fair
230	Black cherry	12.75	Dead, Diseased
231	Maple	13.25	Fair, Poor
232	Black Cherry	15.25	Poor
233	Black Cherry	14.25	Fair
234	Black Cherry	10.25	Dead
235	Black Cherry	10	Poor
236	Black Cherry	10	Poor
237	Black Cherry	12.5	Poor
238	Black Cherry	13.25	Dead
240	Black Cherry	13.75	Poor
242	Maple	11.75	Critical
243	Maple	10	Fair, Poor
244	Maple	12.25	Fair, Poor
246	Black cherry	19.75	Critical
250	Ash	19.75	Fair, Poor
252	Maple	12.75	Fair, Poor
253	Maple	10.75	Poor
255	Maple	10.5	Fair, Poor
256	Maple	11.5	Fair, Poor
257	Maple	10.5	Fair, Poor
258	Ash	15.75	Dead, Diseased, Poor
259	Maple	14.25	Poor
260	Maple	13	Dead
261	Ash	14.25	Fair, Poor, Diseased, Poor
262	Maple	10.75	Poor
263	Maple	10	Fair, Poor
265	Maple	15.5	Fair, Poor
266	Elm	13.25	Poor
267	Elm	11.75	Critical
268	Elm	17.5	Fair, Poor
270	Elm	20	Poor
271	Elm	17	Poor
272	Elm	14.75	Poor

273	Elm	13.5	Poor
275	Ash	13.75	Dead
277	Maple	12.5	Poor
280	Ash	18	Fair, Poor
282	Black Cherry	18.75	Poor
283	Black Cherry	13	Fair, Poor
285	Maple	12.75	Fair
286	Maple	14.75	Fair, Poor
287	Maple	13	Poor
289	Maple	18	Poor
290	Maple	13.5	Poor
291	Maple	11	Fair, Poor
292	Maple	11	Poor
293	Oak	18.25	Poor
294	Ash	16.25	Poor, Critical
295	Oak	10	Poor
296	Oak	13.25	Fair, Poor
297	Oak	13	Fair
298	Oak	13	Fair
299	Oak	16	Fair, Poor
300	Oak	15.75	Fair, Poor
301	Oak	11.75	Poor
302	Oak	13.25	Fair, Poor
303	Maple	12.5	Fair, Poor
304	Black Cherry	16.25	Poor
305	Maple	15.75	Poor
307	Maple	13.75	Poor
309	Maple	12.5	Poor
311	Maple	12	Poor, Critical
312	Oak	11.25	Poor
313	Black cherry	14.5	Poor
314	Maple	13.5	Poor
316	Maple	11.25	Fair, Poor
317	Oak	13.25	Fair, Poor
318	Maple	12.75	Poor
319	Oak	15.25	Fair
320	Maple	15.25	Fair, Poor
321	Maple	11	Fair
322	Maple	14.5	Poor
324	Maple	10.25	Fair, Poor
325	Maple	10.75	Fair, Poor
327	Oak	18.25	Fair, Poor
328	Ash	10	Fair, Poor
329	Oak	11.75	Fair, Poor
331	Oak	16.75	Fair, Poor
332	Maple	11.75	Poor
333	Maple	12	Fair, Poor
334	Shagbark Hickory	14.25	Poor
336	Oak	18	Fair
337	Oak	15.5	Fair
338	Oak	16.5	Fair, Poor
340	Oak	15.25	Fair, Poor
342	Oak	15	Fair, Poor
343	Maple	16.5	Poor
346	Maple	10	Poor
347	Maple	14.5	Fair, Poor
348	Maple	11.25	Fair, Poor
350	Dead	14	Dead
352	Oak	11.75	Critical
354	Maple	17.5	Critical, Diseased
355	Black cherry	18.5	Diseased, Critical
356	Maple	16	Fair, Poor
357	Maple	10.75	Poor
358	Maple	10.75	Poor
360	Black cherry	12	Critical
362	Maple	11	Fair, Poor
364	Maple	12.5	Poor
365	Maple	12.5	Poor
366	Maple	11.25	Poor
367	Oak	13.5	Fair
368	Maple	18.5	Poor
369	Maple	15.5	Fair, Poor
370	Maple	13.5	Critical
371	Oak	15	Fair
372	Maple	13.5	Fair, Poor
373	Maple	11.75	Poor
374	Black Cherry	18.75	Poor, Critical
376	Maple	17.25	Poor
377	Maple	14.25	Poor

378	Maple	11.75	Fair, Poor
379	Maple	14.5	Poor
380	Maple	11.25	Poor
381	Black Cherry	16	Critical
382	Black Cherry	11.75	Dead
383	Maple	10.75	Fair
385	Maple	13.75	Fair, Poor
387	Maple	17.25	Poor
390	Maple	18.75	Poor, Critical
392	Elm	18.5	Critical
393	Maple	14.75	Poor
396	Black cherry	10.25	Dead
397	Maple	19.5	Poor
400	Elm	14.75	Fair, Poor
403	Elm	18.75	Poor
404	Elm	10.5	Fair, Poor
405	Elm	18.75	Fair, Poor
406	Elm	14.75	Fair, Poor
407	Maple	16.75	Fair
408	Elm	18.75	Fair, Poor
409	Elm	19.25	Poor
410	Elm	14.75	Fair, Poor
411	Elm	19.25	Poor
413	Oak	13.75	Poor
415	Elm	14.75	Poor
417	Elm	13.75	Fair, Poor
418	Elm	13.75	Poor
421	Maple	12.5	Poor
423	Maple	12.5	Poor
424	Elm	11.75	Fair, Poor
425	Maple	15	Critical
426	Black Cherry		

CIVIL ENGINEER

GPI Engineering Design Planning Construction Management
518.483.9433 GPINET.COM

Greenman-Pedersen, Inc.
80 Wolf Road, Suite 300
Albany, NY 12205

STATE OF NEW YORK
GREENMAN PEDERSEN INC.
LICENSED PROFESSIONAL ENGINEER
No. 137

CONSULTANT:

NOT FOR CONSTRUCTION
THIS DRAWING PROVIDED ONLY FOR
REVIEW AND APPROVAL

- 28 APR 23 SUBMISSION TO TOWN
- 15 FEB 23 SUBMISSION TO TOWN
- 11 NOV 22 SUBMISSION TO TOWN
- 20 OCT 22 GPI CONCEPT FOR REVIEW
- 16 SEP 22 CONCEPT FOR REVIEW

MARK: DATE: DESCRIPTION:

OWNER:
JW CONGREGATION SUPPORT, INC.
1005 RED MILLS ROAD
WALLKILL, NY 12589-3283

PROJECT TITLE:
NEWBURGH KINGDOM HALL OF JEHOVAH'S WITNESSES
33 OLD LITTLE BRITAIN RD
NEWBURGH, NY 12550

SHEET TITLE:
SITE PLAN

PROJECT No. **37147**

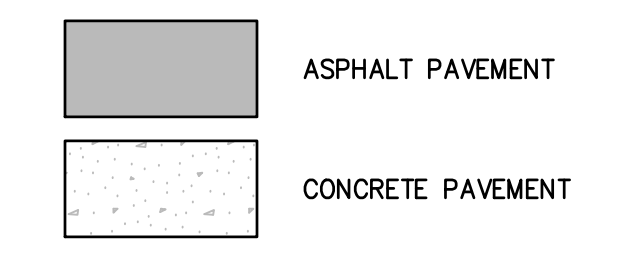
SHEET No. **CS101**

SITE SIGN TABLE				
SIGN NO.	DESC.	M.U.T.C.D NO./SIZE	QTY	COLOR*
1		R1-1 30" x 30"	1	LEGEND: RED-RETROFLECTIVE BACKGROUND; WHITE-RETROFLECTIVE
2		R7-8 12" x 18"	3	LEGEND: GREEN-RETROFLECTIVE BACKGROUND; WHITE-RETROFLECTIVE SYMBOL BACKGROUND: BLUE -RETROFLECTIVE
3		R7-8a 12" x 6"	1	LEGEND: GREEN-RETROFLECTIVE (OR BLACK) BACKGROUND; WHITE-RETROFLECTIVE
4		R7-1 12" x 18"	1	LEGEND: RED BACKGROUND; WHITE-RETROFLECTIVE

GENERAL SHEET NOTES

- REFER TO C-001 COVER SHEET FOR GENERAL NOTES REFERENCING SURVEY INFORMATION, DATUMS, GENERAL PROJECT AND CONSTRUCTION INFORMATION.
- CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MOST RECENT EDITION AS REVISED) AND AS REQUIRED BY THE TOWN OF NEWBURGH'S HIGHWAY DEPARTMENT. DURING CONSTRUCTION WITHIN THE PUBLIC R.O.W, CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN THE PROJECT AREA.
- REQUIRED SIGNAGE AND STRIPING OF FIRE ZONES OR ACCESS LANES SHALL BE AS REQUIRED BY FIRE OFFICIAL.
- PAINT ALL PARKING STALLS, STOP BARS, CROSSWALKS AND HANDICAP ACCESSIBLE SPACES. ALLOW PAVING TO AGE 30 DAYS BEFORE APPLYING MARKINGS.
- DIMENSIONS SHOWN ON PLANS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- SOLID WASTE WILL BE PRIVATELY HANDLED. WASTE ACCUMULATED DAILY IS FROM LITTLE TO NONE AND IS DISPOSED OFF-SITE BY THE PATRONS. NO KITCHENS OR DAY CARE SERVICES WILL BE PART OF THE USE OF THE BUILDING. NO DUMPSTER OR MUNICIPAL SERVICE IS NECESSARY.
- DEMOLITION OF THE EXISTING BUILDINGS ON SITE WILL REQUIRE A DEMOLITION PERMIT FROM THE TOWN OF NEWBURGH BUILDING DEPARTMENT.

PAVEMENT LEGEND

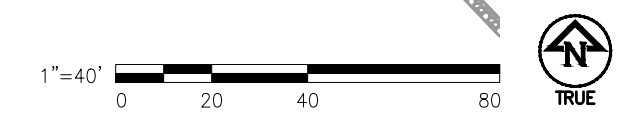
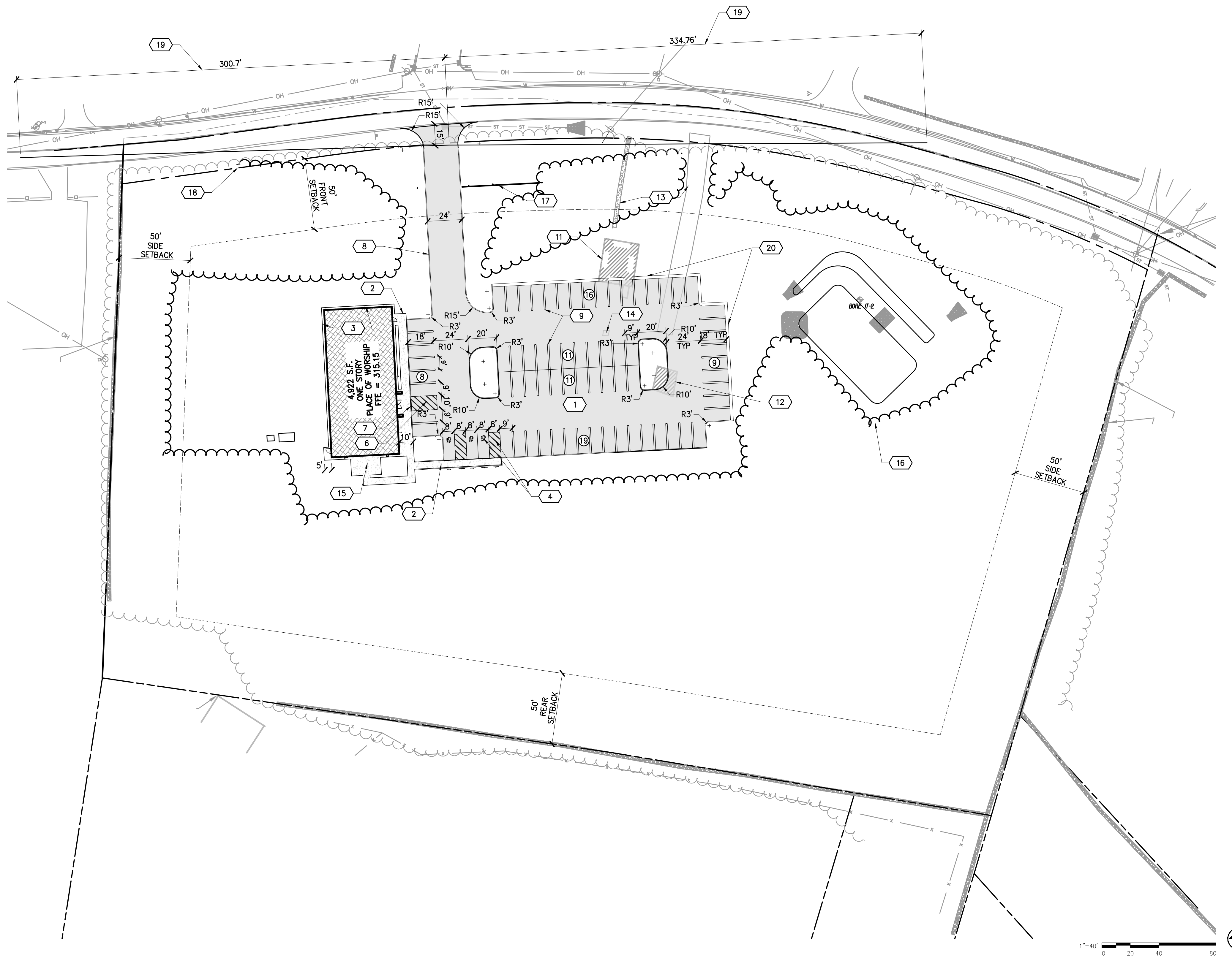


SYMBOLS LEGEND

	EXISTING	PROPOSED
PROPERTY BOUNDARY	---	- - - -
BUILDING SETBACK LINE	---	- - - -
BUILDING	▬	▬
EDGE OF PAVEMENT	▬	▬
CURB	▬	▬
FENCE	▬	▬
SIGN	▬	▬
WHEEL STOP	▬	▬
BOLLARD	⊙	⊙
ACCESSIBLE PARKING	⊙	⊙
LIGHT POLE (1-LIGHT)	⊙	⊙
HYDRANT	⊙	⊙
UTILITY POLE	⊙	⊙
PARKING SPACE COUNT	⊙	⊙

SHEET KEYNOTES

- STANDARD ASPHALT PAVEMENT. SEE DETAIL 12, SHEET C-502
- SIDEWALK CONCRETE PAVEMENT. SEE DETAIL 6/C-501
- 18" WIDE CONCRETE EDGE.
- ACCESSIBLE SIGNAGE AND STRIPING PER AHJ STANDARDS. FACE OF SIGN SHALL BE A MINIMUM OF 2' FROM EDGE OF CURB. SEE DETAILS 2, 3, 4, AND 5, SHEET C-501
- HANDICAP RAMP, TYPE 2. SEE DETAIL 10/C-501
- 10'x18' STRIPED PEDESTRIAN ACCESS. SEE DETAIL 3/C-501
- 6" VERTICAL TURNDOWN SIDEWALK PAVEMENT. SEE DETAIL 15/C-501
- 6" VERTICAL REVEAL CURB, TAPERED TO FLUSH AT EACH END. SEE DETAIL 14/C-501
- 4" WIDE TRAFFIC WHITE STRIPING, TYP. SEE DETAIL 9/C-501
- RESERVED
- EXISTING ABANDONED HOUSE TO BE REMOVED
- EXISTING ABANDONED GARAGE TO BE REMOVED
- EXISTING GRAVEL DRIVE AND SIDEWALK TO BE REMOVED
- EXISTING WELL TO BE CAPPED AND ABANDONED
- CONCRETE HVAC PAD
- PROPOSED TREE LINE
- PROPOSED SLIDE GATE
- PROPOSED DEDICATION OF 25' RIGHT-OF-WAY
- SIGHT DISTANCE MEASUREMENTS
- 6" VERTICAL ASPHALT WING CURB. SEE DETAIL 9/C-501



PLOTTED BY: DSN\DRFT: DIMSCALE: 20.00 PLOT DATE: ES\2022\2200152.00 Newburgh Civil Design -JWC5\CADD\01_CIVIL\USA37035_CS101_Site_Plan.dwg
FILE PATH: ES\2022\2200152.00 Newburgh Civil Design -JWC5\CADD\01_CIVIL\USA37035_CS101_Site_Plan.dwg

EARTHWORK SPECIFICATIONS

FILL TYPE (1)	USCS CLASSIFICATION	ACCEPTABLE LOCATION FOR PLACEMENT
STRUCTURAL FILL	GW, GW-GM, SW, SW-SM (2)	ALL LOCATIONS AND ELEVATIONS.
COMMON FILL	VARIES (3)	COMMON FILL MAY BE USED FOR GENERAL SITE GRADING. COMMON FILL SHOULD NOT BE USED UNDER SETTLEMENT OR FROST-SENSITIVE STRUCTURES.
CRUSHED STONE	GP	FOR USE ON WET SUBGRADES AND AS DRAINAGE FILL. SHOULD BE UNIFORM 3/4-INCH ANGULAR CRUSHED STONE.
DENSE GRADED CRUSHED STONE	(4)	FOR USE ON ROADWAY BASE AND SUBBASE

- COMPACTED FILL SHOULD CONSIST OF APPROVED MATERIALS THAT ARE FREE OF ORGANIC MATTER AND DEBRIS. FROZEN MATERIALS SHOULD NOT BE USED. FILL SHOULD NOT BE PLACED ON A FROZEN SUBGRADE.
- IMPORTED STRUCTURAL FILL SHOULD MEET THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT FINER
3-INCHES	100
1 1/2-INCHES	70-100
NO. 4	50-85
NO. 10	30-55
NO. 60	8-24
NO. 200	3-10
- FRIABLE, NATURAL SOIL CONTAINING NO GRAVEL GREATER THAN 3/8" LOOSE LIFT THICKNESS AND FREE OF TRASH, SNOW, ICE, ORGANICS, ROOTS, AND TREE STUMPS AND NO MORE THAN 25% PASSING THE NO. 200 SIEVE. COMMON BORROW CAN BE USED AS GENERAL SITE BACKFILL PROVIDED IT CAN BE COMPACTED AND STABILIZED FOR THE INTENDED PURPOSE.

- DENSE GRADED CRUSHED STONE SHOULD MEET THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT FINER
2-INCHES	100
1 1/2-INCHES	70-100
3/4-INCHES	50-85
NO. 4	30-55
NO. 50	8-24
NO. 200	3-10

GENERAL EARTHWORK NOTES

- FOR ADDITIONAL INFORMATION ABOUT SITE-SPECIFIC SOILS AND ENGINEERING RECOMMENDATIONS, PLEASE REFER TO THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY GIFFORD ENGINEERING, DATED 3/4/2020. IN CASE A NOTE ON THESE PLANS CONFLICTS WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS, THE MORE STRINGENT OF THE TWO SHALL APPLY.
- PRIOR TO COMMENCEMENT OF GRADING OR FILL PLACEMENT, ANY MISCELLANEOUS TRASH, DEBRIS, OR OTHER UNSUITABLE MATERIALS SHOULD BE REMOVED FROM THE SITE. CLEARING AND GRUBBING OF ALL TREES (INCLUDING REMOVAL OF ANY ASSOCIATED ROOT SYSTEMS) AND VEGETATION DESIGNATED FOR REMOVAL SHOULD BE PERFORMED.
- TOPSOIL SHOULD BE STRIPPED FROM THE PROPOSED BUILDING AND PAVEMENT AREAS. BASED ON THE GEOTECHNICAL INVESTIGATION, THE SITE CONTAINS BETWEEN 4 AND 8 INCHES OF TOPSOIL. AT THIS TIME, WE ANTICIPATE THAT THE TOPSOIL CAN BE USED IN PROPOSED LANDSCAPED AREAS; THE REUSE OF THE ONSITE TOPSOIL SHOULD BE EVALUATED BY A QUALIFIED LANDSCAPE ARCHITECT WITH REGARDS TO NUTRIENT LEVELS, GRAIN SIZE, PH, ETC. TOPSOIL DEEMED UNSUITABLE FOR REUSE SHOULD BE PROPERLY DISPOSED IN AREAS NOT REQUIRING STRUCTURAL FILL. CONFIRM WITH ENGINEER OF RECORD BEFORE EXPORTING MATERIAL OFFSITE (IF REQUIRED).
- ANY FORMER CONCRETE FOUNDATIONS AND FLOOR SLABS AND ABANDONED UTILITIES THAT ARE ENCOUNTERED BENEATH PROPOSED BUILDINGS SHOULD BE COMPLETELY REMOVED. FORMER CONCRETE FOUNDATIONS AND FLOOR SLABS SHOULD BE CUT TO A MINIMUM OF 3 FEET BELOW PROPOSED SUBGRADE LEVELS IN PROPOSED PAVEMENT AND LANDSCAPE AREAS.
- EXISTING UTILITIES THAT CONFLICT WITH NEW CONSTRUCTION SHOULD BE REMOVED FROM PROPOSED BUILDING FOOTPRINT AREA. EXISTING UTILITIES LOCATED OUTSIDE OF THE PROPOSED BUILDING FOOTPRINT SHOULD BE REMOVED OR ABANDONED IN-PLACE BY COMPLETE FILLING WITH GROUT. EXCAVATIONS MADE TO REMOVE FOUNDATION ELEMENTS OR UTILITIES SHOULD BE BACKFILLED WITH APPROVED COMPACTED FILL AS DESCRIBED IN THE ENGINEERED FILL SECTION OF THE GEOTECHNICAL REPORT.

GENERAL GRADING NOTES

- REFER TO C-001 COVER SHEET FOR GENERAL NOTES REFERENCING SURVEY INFORMATION, DATUMS, GENERAL PROJECT AND CONSTRUCTION INFORMATION
- CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
- YARD AREAS, SIDEWALKS AND PAVEMENT SHALL BE GRADED TO DRAIN AWAY FROM THE BUILDINGS. FINISHED SURFACES SUCH AS ALL PAVING, SIDEWALKS AND RAMPS IN ACCESSIBLE AREAS SHALL CONFORM TO FEDERAL AND NEW YORK STATE ACCESSIBILITY STANDARDS. ACCESSIBLE ROUTES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS AND WITH THE FOLLOWING:
PARKING AND LOADING AREAS - MAXIMUM SLOPE OF 1:50 (2%) IN ALL DIRECTIONS IN ACCESSIBLE PARKING SPACES AND AISLES. ACCESSIBLE ROUTES - MAXIMUM SLOPE OF 1:20 (5%) IN THE DIRECTION OF TRAVEL. MAXIMUM CROSS SLOPE OF 1:50 (2%). BUILDING ENTRANCES AND EXITS - AT ALL LOCATIONS 5'X5' (MINIMUM) ACCESSIBLE, CONCRETE WALK WITH A MAXIMUM SLOPE OF 1:50 (2%) IN ALL DIRECTIONS.
- CONTRACTOR SHALL GRADE THE SITE TO MATCH EXISTING GROUND AT THE LIMITS OF THE PROJECT SITE. ALL DRAINAGE ENTERING THE PROJECT AREA SHALL BE INTERCEPTED IN THE FINAL GRADING. TRANSITIONS TO EXISTING GROUND THAT ARE DIFFERENT FROM THE PLANS SHALL BE COORDINATED PRIOR TO FINAL GRADING. LAWN AREAS TO BE MOWED SHOULD NOT EXCEED A SLOPE OF 4:1.
- ALL AREAS WITHIN THE PROJECT SITE SHALL BE GRADED TO DRAIN TO ON-SITE STORM SEWERS OR TO THE PUBLIC R.O.W. THE DEVELOPMENT SHALL NOT HAVE ANY ADVERSE IMPACTS TO SURROUNDING PROPERTIES.

STORM DRAINAGE CONSTRUCTION NOTES

- CONSTRUCTION IN STORM SEWER AND DRAINAGE EASEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S REQUIREMENTS.
- SPECIFICATIONS:
 - PIPES WITHIN THE PUBLIC R.O.W.: PIPE SHALL BE CLASS III, WALL B, REINFORCED CONCRETE PIPE IN ACCORDANCE WITH ASTM C76.
 - PIPES WITHIN PROPERTY:
 - 4" AND GREATER SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) WITH SOIL-TIGHT JOINTS IN ACCORDANCE WITH ASTM F2648 WITH RUBBER GASKETS MEETING ASTM F477 WITH FITTINGS IN ACCORDANCE WITH ASTM F2306 UNLESS OTHERWISE SPECIFIED. INSTALLATION OF HDPE STORM SEWERS SHALL BE IN ACCORDANCE WITH ASTM D2321 IN ALL CASES. CHANGES IN PIPE SIZE OR TYPE SHALL OCCUR AT AN APPROVED STRUCTURE.
- MANHOLES:
 - USE NYLOPLAST DRAIN BASINS
 - USE ROUND CONCRETE MANHOLES WITH ECCENTRIC CONES WITH 24" OPENING IN ACCORDANCE WITH ASTM C478, RUBBER GASKETS IN ACCORDANCE WITH C433 AND STEPS IN ACCORDANCE WITH C478.
- CATCH BASINS:
 - USE NYLOPLAST DRAIN BASINS
 - USE SQUARE CONCRETE BOX IN ACCORDANCE WITH ASTM C913 WITH RUBBER GASKETS IN ACCORDANCE WITH C433 AND STEPS IN ACCORDANCE WITH ASTM C497.
- FRAMES AND COVERS: SHALL BE IN ACCORDANCE WITH AASHTO M105.
- CONTRACTOR SHALL VERIFY ALL FLOWLINE OR INVERT ELEVATIONS 48 HOURS PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. IF A DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- ROOF DRAINAGE TO BE DIRECTED FROM BUILDING TO STORM SYSTEM VIA DOWNSPOUTS.

PROOF-ROLLING NOTES

- ALL BUILDING PAD AND PAVEMENT SUBGRADE SURFACES EXPOSED AFTER THE STRIPPING OF THE VEGETATION AND THE WEAK SURFICIAL SOILS, AS WELL AS ALL AREAS OF THE SITE PLANNED FOR THE PLACEMENT OF GENERAL FILL SOILS, SHOULD BE PROOF-ROLLED WITH AT LEAST 4 PASSES OF EITHER A SMOOTH ROLLER HAVING A MINIMUM STATIC WEIGHT OF 5 TONS OR A FULLY LOADED TANDEM DUMP TRUCK OR EQUIVALENT. ANY SOFT OR WEAK AREAS IDENTIFIED BY THE QUALIFIED SITE INSPECTOR WORKING IN COORDINATION WITH THE CIVIL ENGINEER DURING PROOF-ROLLING SHOULD BE REMOVED AND REPLACED WITH SELECT FILL SOILS OR GENERAL FILL SOILS. DEPENDING UPON THE AREA, THAT ARE INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS PRESENTED IN "CONSTRUCTION CONSIDERATIONS" SECTION OF THE GEOTECHNICAL REPORT. THE REASONS FOR PROOF-ROLLING OF THE SUBGRADE IS THAT SOME SOILS HAVE BEEN FOUND TO COMPACT TO MINIMUM DENSITY REQUIREMENTS BUT TO STILL EXHIBIT "PUMPING" TENDENCIES. PROOF-ROLLING OF THE SUBGRADE SHOULD IDENTIFY THE SOILS THAT HAVE A TENDENCY TO PUMP SO THAT THEY CAN BE REMOVED AND REPLACED WITH MORE SUITABLE FOUNDATION SOILS APPROVED BY THE GEOTECHNICAL ENGINEER.

STRUCTURAL FILL NOTES

COMPACTION TESTING NOTES

- COMPACTION AND MOISTURE CONTENT OF SUBGRADE AND EACH LIFT OF STRUCTURAL FILL SHALL BE INSPECTED AND APPROVED BY A QUALIFIED ENGINEERING TECHNICIAN, SUPERVISED BY A GEOTECHNICAL ENGINEER.
- SUBGRADE COMPACTION TESTS SHOULD BE PERFORMED AT AN AVERAGE RATE OF ONE TEST FOR EVERY 2,000 SF OF BUILDING PAD SUBGRADE AREA OR EVERY 5,000 SF OF PAVEMENT OR GENERAL FILL AREA, WITH A MINIMUM OR THREE TESTS BEING PERFORMED FOR EACH DISTINCT SUBGRADE AREA.

FILL AREA	PERCENT MAX DENSITY PER ASTM D698	PERCENT MAX DENSITY PER ASTM D1557
FOUNDATION SUPPORT FILL	98%	95%
FOUNDATION BACKFILL	98%	95%
SLAB-ON-GRADE, PAVED AREAS	98%	95%
NON-STRUCTURAL AREAS, GREEN AREAS	92%	90%

SHEET KEYNOTES

- 6" HDPE CONNECTED TO DOWNSPOUT (0.8% SLOPE). SEE DETAIL 12/C-503
- 8" HDPE
- CONCRETE HEADWALL. SEE DETAIL 14/C-503
- OUTLET CONTROL STRUCTURE. SEE DETAIL 10/C-503
INV: 94.90'
INV OUT: 93.50'
6" ORIFICE INV: 93.50'
- RIP-RAP SPILLWAY. SEE DETAIL 5/C-503
- RIP-RAP APRON. SEE DETAIL 9/C-502
- DRAINAGE SWALE @ 0.8% SLOPE. SEE DETAIL 7/C-502
- CHAINLINK FENCE. SEE DETAIL 12/C-501

SYMBOLS LEGEND

	EXISTING	PROPOSED
CONTOUR-MAJOR	-----2.50	-----2.50
CONTOUR-MINOR	-----2.50	-----2.50
STORM SEWER	-----	-----
TOP OF BANK	-----	-----
SPOT GRADE	+2.50	+2.50
SPOT GRADE TOP OF CURB	+C2.50	+C2.50
DIRECTION OF WATER FLOW	←	←
DOWN SPOUT	⊙	⊙
CATCH BASIN - NO CURB PIECE	⊞	⊞
CURB INLET	⊕	⊕
STORM MANHOLE	⊙	⊙
FLARED END SECTION	▽	▽
RIP RAP APRON	▨	▨
HEADWALL	▢	▢
SURVEY BENCHMARK	⊕	⊕

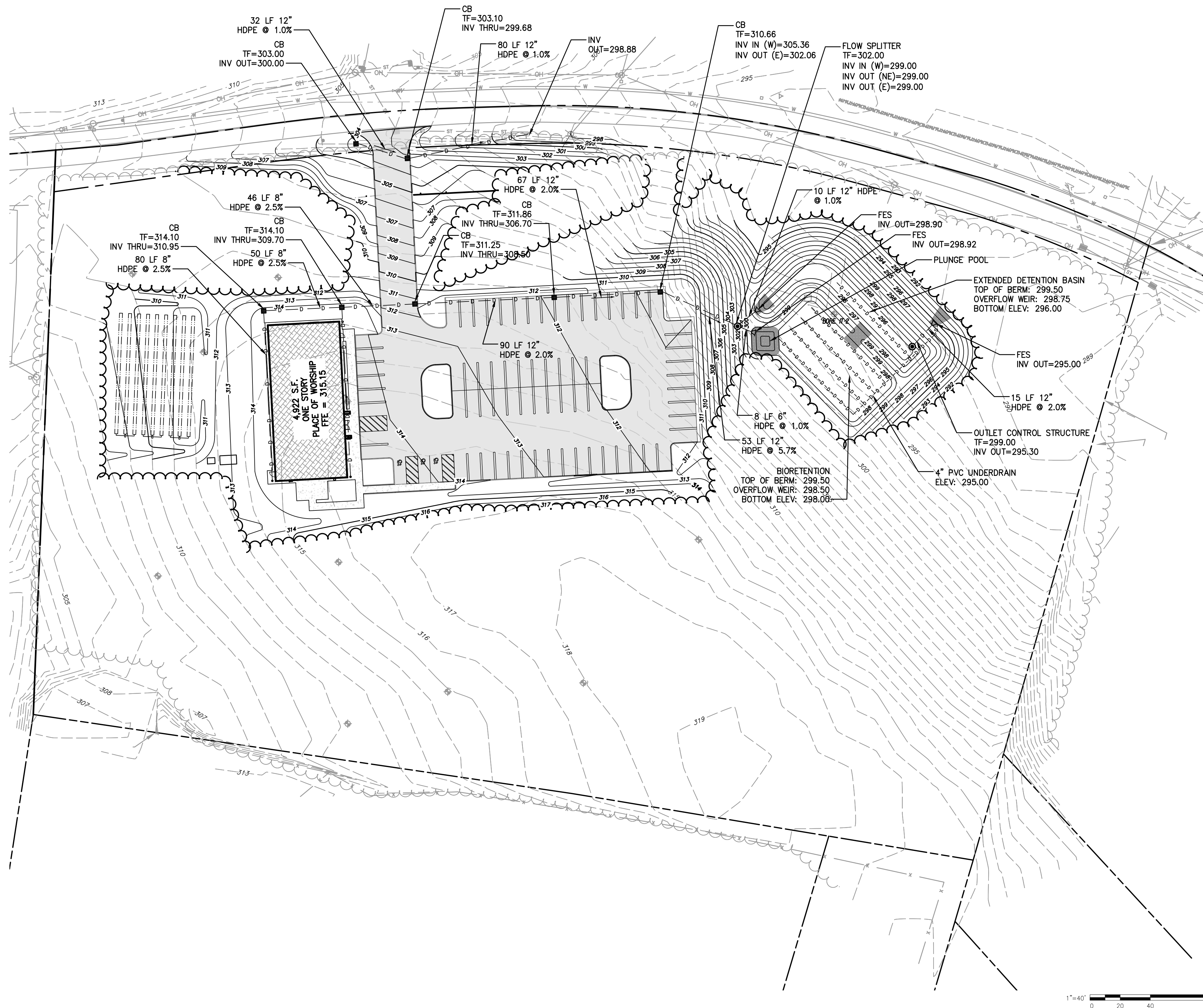


IMAGE: #
 XREF: #
 IMAGE: #
 XREF: #
 IMAGE: #
 XREF: #
 IMAGE: #
 XREF: #
 IMAGE: #
 XREF: #
 IMAGE: #
 XREF: #
 IMAGE: #
 XREF: #
 PLOTTED BY: DSGN.DRFT
 DIMSCALE: 20.00
 FILE PATH: E:\2022\2200152.00 Newburgh_Civil_Design\DWG\CG101_Grading_Drainage_Plan.dwg

CIVIL ENGINEER

518.483.9433
 GPRNET.COM
 Greenspan-Pedersen, Inc.
 80 Wolf Road, Suite 300
 Albany, NY 12205

CONSULTANT:

NOT FOR CONSTRUCTION

THIS DRAWING PROVIDED ONLY FOR REVIEW AND APPROVAL

DATE: 28 APR 23 SUBMISSION TO TOWN
 15 FEB 23 SUBMISSION TO TOWN
 11 NOV 22 SUBMISSION TO TOWN
 20 OCT 22 GPI CONCEPT FOR REVIEW
 16 SEP 22 CONCEPT FOR REVIEW

MARK: DATE: DESCRIPTION:

OWNER:
JW CONGREGATION SUPPORT, INC.
 1005 RED MILLS ROAD
 WALLKILL, NY 12589-3283

PROJECT TITLE:
NEWBURGH KINGDOM HALL OF JEHOVAH'S WITNESSES
 33 OLD LITTLE BRITAIN RD
 NEWBURGH, NY 12550

SHEET TITLE:
GRADING AND DRAINAGE PLAN

PROJECT No. **37147**

SHEET No. **CG101**

LIST OF CONTACTS FOR UTILITY COMPANIES

- 1. WATER & SEWER TOWN OF NEWBURGH-JEFF GUIDO; 308 GARDNERTOWN ROAD, NEWBURGH, NY; 845-564-7803
2. ELECTRIC CHG&E-LISA CARVER; 610 LITTLE BRITAIN ROAD, NEW WINDSOR, NY; 845-563-4529
3. GAS CHG&E-LISA CARVER; 610 LITTLE BRITAIN ROAD, NEW WINDSOR, NY; 845-563-4529

SHEET KEYNOTES

- 1. 1" GAS LINE CONNECTION W/METER
2. 6" DIP WATER LINE CONNECTION
3. 6" WATER METER
4. WATER TAP CONNECTION WITH TAPPING SLEEVE. SEE DETAIL 4/C-502
5. 4" SDR-35 PVC
6. SEWER @ BLDG.
7. SANITARY SEWER CLEANOUT, TYP. AT LEAST ONE TO BE DUAL DIRECTION. SEE DETAILS 5 AND 6, SHEET C-502
8. 3/4" ELECTRICAL CONDUIT FOR LIGHTING CIRCUITS. SEE ES101 FOR CONDUIT LAYOUT
9. 2" ELECTRICAL CONDUIT FROM METER
10. TRANSFORMER AT POWER POLE
11. LIGHT POLE ON CONCRETE BASE. SEE ES101 FOR DETAIL AND POLE HEIGHT
12. STORM SEWER SYSTEM. SEE CG101 FOR MORE INFORMATION
13. REPLACE EXISTING CATCH BASIN FRAME AND GRATE WITH NEW FRAME AND SOLID COVER.

SANITARY SEWER CONSTRUCTION NOTES

- 1. SANITARY SEWER CONSTRUCTION AND TESTING SHALL BE IN ACCORDANCE WITH THE RULES AND REQUIREMENTS OF THE TOWN OF NEWBURGH ENGINEERING DEPARTMENT, ORANGE COUNTY DEPARTMENT OF HEALTH, AND THE NEW YORK STATE DEPARTMENT OF HEALTH.
2. SPECIFICATIONS:
A. FOR PVC PIPES LESS THAN 8 FT DEEP: USE 4" PVC SDR-35 IN ACCORDANCE WITH ASTM D3034 WITH RUBBER GASKET JOINTS PER ASTM D3213 INSTALLED IN ACCORDANCE WITH ASTM D2321. SANITARY SEWER BEDDING WITHIN FIVE (5) FEET OF THE BUILDING SHALL BE BEDDED AND BACKFILLED WITH STRUCTURAL FILL.
B. FOR PVC PIPES DEEPER THAN 8 FT DEEP: USE TYPE PSM SDR-26 PVC PIPE USE DUCTILE IRON PIPE IN ACCORDANCE WITH ANSI/AWWA A21.50/C151, FITTINGS IN ACCORDANCE WITH ANSI/AWWA A21.53.C153, RUBBER GASKET IN ACCORDANCE WITH ANSI/AWWA A21.11/C111 AND CEMENT MORTAR LINING IN ACCORDANCE WITH ANSI/AWWA A21.4/C104.
3. SEPARATION DISTANCES FOR ALL SANITARY/STORM SEWER AND WATER MAIN CONSTRUCTION SHALL BE 18 VERTICAL INCHES AND/OR 10 HORIZONTAL FEET IN ACCORDANCE WITH THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS' SPECIFICATIONS.
4. ALL CLEANOUTS THAT ARE PLACED WITHIN PAVING OR SIDEWALK AREAS SHALL BE INSTALLED WITH A NON-SKID, TRAFFIC RATED, SEALED METAL COVER SET FLUSH WITH THE FINISHED PAVING ELEVATION.
5. THE MINIMUM DEPTH OF COVER REQUIRED FOR ALL SANITARY SEWERS AND LATERALS SHALL BE 4 FEET.
6. THE JOINT DEFLECTION METHOD SHALL BE USED WHERE PRACTICAL IN LIEU OF INSTALLING BENDS.
7. THE CONTRACTOR SHALL PERFORM A CLOSED CIRCUIT TELEVISION INSPECTION ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE ORANGE COUNTY DEPARTMENT OF HEALTH PRIOR TO FINAL ACCEPTANCE.

GENERAL UTILITY NOTES

- 1. REFER TO C-001 COVER SHEET FOR GENERAL NOTES REFERENCING SURVEY INFORMATION, DATUMS, GENERAL PROJECT AND CONSTRUCTION INFORMATION
2. CONTRACTOR IS NOTIFIED THAT EXISTING UTILITIES ARE PRESENT AND UTILITY INFORMATION SHOWN ON THE PLANS HAVE BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OF COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION.
3. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES WITHIN PROJECT LIMITS TO PREVENT DAMAGE OR IDENTIFY IF ADJUSTMENTS ARE NEEDED. CONTRACTOR SHALL NOTIFY ALL UTILITIES RELATED TO THE PROJECT AT LEAST 2 BUT NOT MORE THAN 10 DAYS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOT PROCEED WITH WORK IN AREAS WHERE UTILITIES HAVE NOT BEEN LOCATED AND MARKED BY UTILITY COMPANIES. FOR UTILITY MARKOUT, CALL DISASAFETY (811)
4. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTION, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO CONFIRM EXISTING INVERTS, MATERIALS AND SIZES, SUCH THAT CONFLICTS MAY BE AVOIDED.
5. CONTRACTOR MUST VERIFY ALL EXISTING WATER, SEWER, AND STORMWATER INFRASTRUCTURE WITHIN THE PROPERTY AND PUBLIC RIGHT-OF-WAY BEFORE ORDERING STRUCTURES OR CONNECTING TO EXISTING LINES. CONFIRMATION INCLUDES ALL HORIZONTAL AND VERTICAL LOCATIONS.
6. UNLESS OTHERWISE NOTED, MAINTAIN 6 INCHES OF VERTICAL CLEARANCE (MINIMUM) AT CROSSINGS BETWEEN ALL UNDERGROUND CONDUITS.
7. REFER TO ELECTRICAL SITE PLAN FOR ELECTRICAL CONDUIT SPECIFICATIONS

WATER UTILITY NOTES

- 1. WATER CONSTRUCTION NOTES SHALL APPLY TO THE ON-SITE, DOMESTIC AND FIRE SYSTEMS FROM FIVE FEET OUTSIDE THE BUILDING TO THE METER OR SERVICE CONNECTION.
2. ALL WATER LINE CONSTRUCTION AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS.
3. SEPARATION DISTANCES FOR ALL WATER MAIN AND SANITARY/STORM SEWER MAIN CONSTRUCTION SHALL BE 18 VERTICAL INCHES AND/OR 10 HORIZONTAL FEET IN ACCORDANCE WITH THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS' SPECIFICATIONS.
4. ALL WATER LINES SHALL BE CONSTRUCTED ABOVE SANITARY SEWERS AT ALL CROSSINGS. ALL WATER LINES SHALL BE CONSTRUCTED WITH A MINIMUM OF 18 INCHES FROM SEWER LINES. WHEN POTABLE WATER LINES PASS UNDERNEATH SEWER LINES, AN EIGHTEEN-FOOT LONG, CONTINUOUS JOINT OF WATER LINE SHALL BE CENTERED AT ALL CROSSINGS WITH SANITARY SEWERS.
5. SPECIFICATIONS: DOMESTIC WATER SERVICE: 3/4" TO 2" - USE PEX TUBING IN ACCORDANCE WITH ASTM F876 AND F877. 3/4" TO 2" - USE COPPER, TYPE K, IN ACCORDANCE WITH ASTM B88. PRIVATE FIRE SERVICE: <4" - USE PVC SDR21 IN ACCORDANCE WITH ASTM D2241, WITH RUBBER GASKETS MEETING ASTM F477 WITH A MINIMUM PRESSURE RATING OF 150 PSI. 4"-12" - USE PVC IN ACCORDANCE WITH AWWA C900, JOINTS MEETING ASTM F3139 AND GASKETS MEETING F477. 3" TO 12" - USE DUCTILE IRON PIPE PRESSURE CLASS 350 IN ACCORDANCE WITH ANSI/AWWA A21.50/C151, FITTINGS MEETING ANSI/AWWA A21.53/C153, WITH RUBBER GASKETS MEETING ANSI/AWWA A21.11.C111. PIPING SHALL USE CEMENT MORTAR LINING MEETING THE REQUIREMENTS OF AWWA C153 AND C104.
6. WATER LINE CONSTRUCTION SHALL INCLUDE BEDDING AND CONCRETE THRUST BLOCKING IN ACCORDANCE WITH THE DETAILS.
7. WATER LINES WITHIN FIVE (5) FEET OF THE BUILDING SHALL BE BEDDED AND BACKFILLED USING STRUCTURAL FILL. WATER LINES BEYOND FIVE (5) FEET FROM THE BUILDING AND 4" IN DIAMETER OR GREATER SHALL BE BEDDED AND BACKFILLED PER DETAIL 2/C-502.
8. CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING AND OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER AND ENGINEER.
9. FIRE HYDRANT, GATE VALVE, AND BLOW-OFF VALVE ASSEMBLIES SHALL CONSIST OF ALL PIPE, VALVES, TEES, FITTINGS, AND ANY AND ALL OTHER APPURTENANCES COMPRISING A COMPLETE WORKING UNIT.
10. ALL COMPONENTS OF THE WATER SYSTEM SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE TOWN OF NEWBURGH'S WATER DEPARTMENT OR THE CHIEF ENGINEER. PRESSURE TESTS SHALL BE IN ACCORDANCE WITH THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS' SPECIFICATIONS.
11. THE CONTRACTOR SHALL NOT OPERATE ANY VALVES OR PRESSURE TEST AGAINST ANY COUNTY/CITY INSTALLED VALVES OR FITTINGS.

GAS CONSTRUCTION NOTES

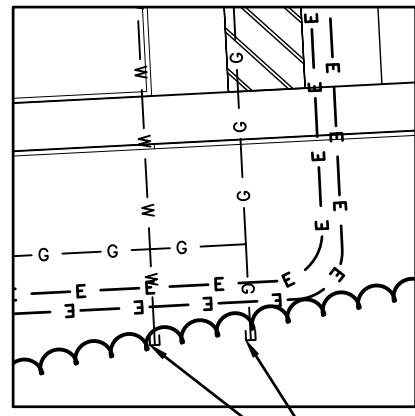
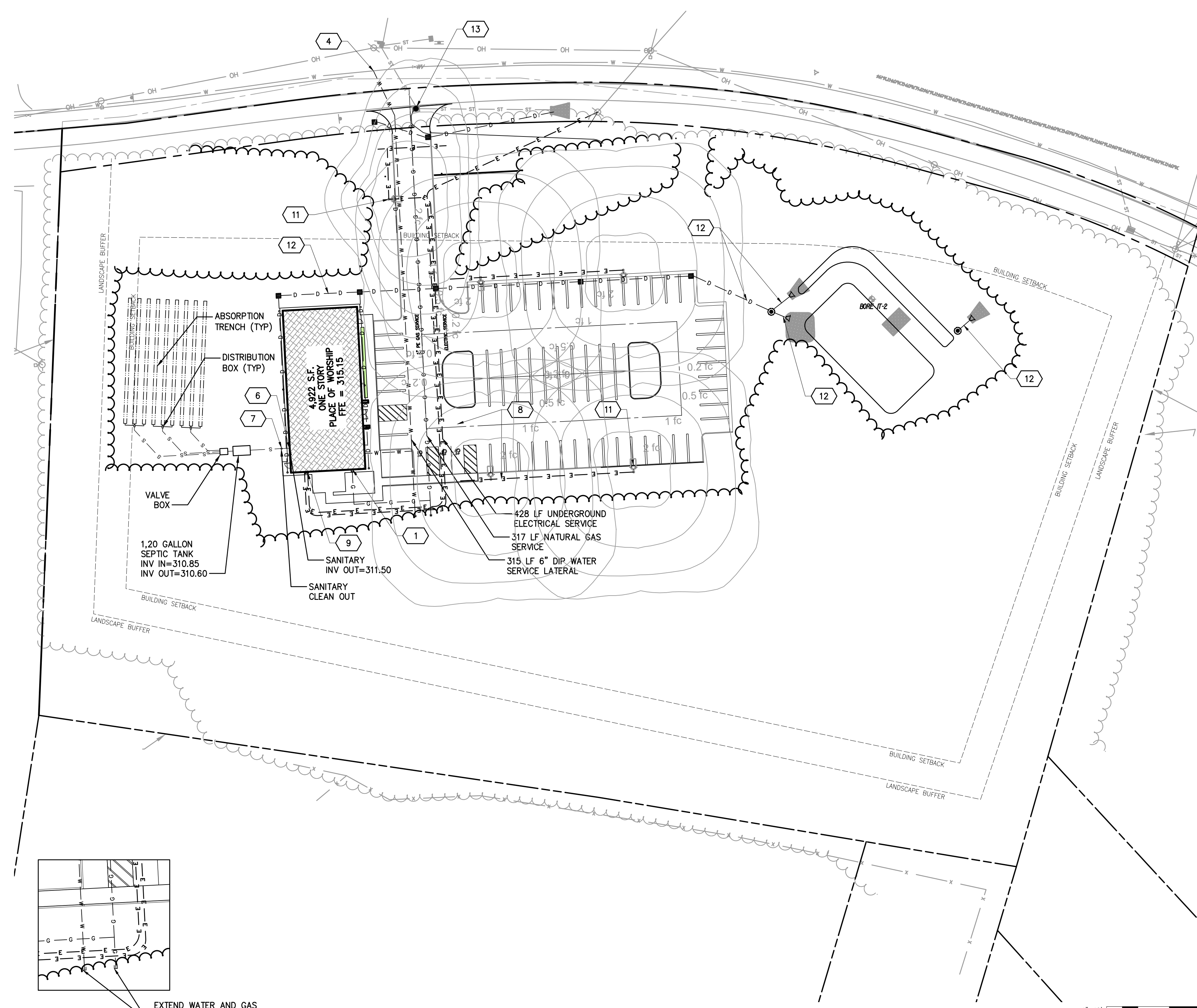
- 1. THE MINIMUM DEPTH OF COVER FOR ALL UNDERGROUND GAS CONDUIT SHALL BE 3 FEET
2. GAS LINE SHALL BE MADE OF POLYETHYLENE PIPE IN ACCORDANCE WITH ASTM D2315 (PE 4710)

UTILITY TRENCH NOTES

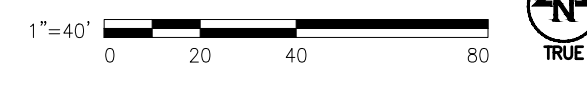
- 1. EXCAVATION AND SHORING REQUIREMENTS FOR ALL OPEN EXCAVATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH APPLICABLE PROVISIONS OF OSHA 29 CFR 1926, SUBPART P.
2. SOILS USED TO BACKFILL UTILITY TRENCHES SHALL BE FREE OF DELETERIOUS MATERIAL AND EXCESSIVE AMOUNTS OF SILT. NATIVE SOILS OR SOILS MEETING STRUCTURAL FILL REQUIREMENTS MAY BE USED FOR BACKFILLING OF UTILITY TRENCHES UNLESS OTHERWISE PROHIBITED BY PLANS AND OTHER SPECIFICATIONS REFERENCED ELSEWHERE.
3. TRENCH BACKFILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8 INCHES AND MECHANICALLY COMPACTED TO THE REQUIRED MOISTURE/DENSITY REQUIREMENTS.
4. SOILS USED TO BACKFILL UTILITIES LOCATED BENEATH BUILDINGS, UNDERNEATH PAVEMENT OR OTHER STRUCTURAL UNITS SHALL BE COMPACTED AT MOISTURE CONTENTS WITHIN THE RANGE OF THE OPTIMAL MOISTURE CONTENT (OMC) TO 4% ABOVE OMC, INCLUSIVE, AND TO AT LEAST 98% OF THE MAX DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST, ASTM D998. ALTERNATIVELY, CEMENT-STABILIZED SAND MAY BE USED FOR UTILITY BACKFILL.
5. EXCEPT UNDER PAVEMENT, BUILDING, OR AS OTHERWISE REQUIRED FOR THE PROJECT, TRENCH BACKFILL ABOVE THE PIPE ZONE MAY BE NATIVE MATERIAL. NATIVE MATERIAL BACKFILL SHALL BE PLACED IN LOOSE LIFTS OF LESS THAN EIGHT (8) INCHES COMPACTED TO A DENSITY OF NINETY (90) PERCENT, STANDARD PROCTOR, MAXIMUM DRY DENSITY, WITH MOISTURE WITHIN 3 PERCENT OF OPTIMUM.
6. SOILS USED TO BACKFILL UTILITIES LOCATED IN LANDSCAPED OR GRASSED AREAS SHALL BE COMPACTED AT MOISTURE CONTENTS IN THE RANGE OF 3% BELOW TO 4% ABOVE OMC, INCLUSIVE, AND TO AT LEAST 92% OF THE MAX DRY DENSITY AS DETERMINED BY STANDARD PROCTOR COMPACTION TEST, ASTM 698.
7. ALL UTILITY TRENCHES SHALL BE EXCAVATED AND BACKFILLED WHILE THE TRENCH IS DRY. EXCAVATION AND BACKFILLING OPERATIONS SHOULD CEASE DURING RAIN OR SNOW EVENTS THAT WOULD CAUSE THE SOIL TO EXCEED THE MAXIMUM MOISTURE CONTENT.
8. CONTRACTOR SHALL PROVIDE ANY DEWATERING FOR UTILITY INSTALLATION, IF REQUIRED.

SYMBOLS LEGEND

Table with columns for EXISTING and PROPOSED symbols for various utility types: STORM SEWER, SANITARY SEWER, UNDERGROUND ELECTRIC LINE, OVERHEAD ELECTRIC LINE, GAS LINE, WATER LINE, CLEANOUT, WATER METER, WATER VALVE, HYDRANT, UTILITY POLE, LIGHT POLE.



EXTEND WATER AND GAS MAINS BEYOND ELECTRICAL SERVICE AND CAP ENDS FOR FUTURE CONNECTIONS



Vertical text on the left margin containing drawing metadata: PLOT DATE: 20.00, DIMSCALE: 20.00, DSN: DRFT, FILE PATH: E:\2022\2200152.00, Newburgh, Civil Design, JWC5\CADD\01_CIVIL\USA37035_CU101_Liberty_Plan.dwg

Professional Engineer information for GPI (Greenman-Pedersen, Inc.), including license number 5184839431 and the State of New York Professional Engineer seal.

NOT FOR CONSTRUCTION. THIS DRAWING PROVIDED ONLY FOR REVIEW AND APPROVAL.

Revision table with columns for DATE, DESCRIPTION, and a list of revisions from 2023 APR 23 to 2023 SEP 22.

OWNER: JW CONGREGATION SUPPORT, INC. 1005 RED MILLS ROAD WALLKILL, NY 12589-3283

PROJECT TITLE: NEWBURGH KINGDOM HALL OF JEHOVAH'S WITNESSES 33 OLD LITTLE BRITAIN RD NEWBURGH, NY 12550

SHEET TITLE: UTILITY PLAN

PROJECT No. 37147

SHEET No. CU101



CONSULTANT:

NOT FOR CONSTRUCTION
THIS DRAWING PROVIDED ONLY FOR **REVIEW AND APPROVAL**

- 28 APR 23 SUBMISSION TO TOWN
- 15 FEB 23 SUBMISSION TO TOWN
- 11 NOV 22 SUBMISSION TO TOWN
- 20 OCT 22 GPI CONCEPT FOR REVIEW
- 16 SEP 22 CONCEPT FOR REVIEW

MARK: DATE: DESCRIPTION:

OWNER:
JW CONGREGATION SUPPORT, INC.
1005 RED MILLS ROAD
WALLKILL, NY 12589-3283

PROJECT TITLE:
NEWBURGH KINGDOM HALL OF JEHOVAH'S WITNESSES
33 OLD LITTLE BRITAIN RD
NEWBURGH, NY 12550

SHEET TITLE:
EROSION CONTROL PLAN

PROJECT No. **37147**

SHEET No. **CE101**

SHEET KEYNOTES

1. CONSTRUCTION ENTRANCE. SEE DETAIL 11/C-502
2. SILT FENCE. SEE DETAIL 10/C-502
3. RIP-RAP STABILIZED SPILLWAY. SEE DETAIL 5/C-503
4. RIP-RAP APRON. SEE DETAIL 9/C-502
5. LIMIT OF DISTURBANCE
6. INLET FILTER
7. EROSION CONTROL BLANKET

SYMBOLS LEGEND

- PROPOSED**
- XX— SILT FENCE
 - LIMIT OF DISTURBANCE
 - ⊕ INLET FILTER
 - ▣ RIPRAP/CONSTRUCTION ENTRANCE
 - ▨ EROSION CONTROL BLANKET

SOIL EROSION AND BMP INSPECTION NOTES

- AT A MINIMUM, THE FOLLOWING SHALL BE PROVIDED.
1. INSPECTIONS SHALL BE PERFORMED ONCE EVERY 7 CALENDAR DAYS OR THE OCCURRENCE OF RUNOFF FROM SNOWMELT SUFFICIENT TO CAUSE A DISCHARGE.
 2. DURING EACH INSPECTION, CONTRACTOR SHALL INSPECT THE FOLLOWING AREAS OF THE SITE:
 - CLEARED, GRADED, OR EXCAVATED AREAS OF THE SITE
 - STORMWATER CONTROLS (E.G. PERIMETER CONTROLS, SEDIMENT BASINS, INLETS, EXIT POINTS, ETC.) AND PRACTICES (E.G. POLLUTION PREVENTION PRACTICES FOR VEHICLES FUELING/MAINTENANCE AND WASHING, STORAGE, HANDLING AND DISPOSAL, ETC.) AT THE SITE.
 - MATERIAL, WASTE, OR BORROW AREAS COVERED BY AN EPA SWPPP OR SOIL EROSION PERMIT AND EQUIPMENT STORAGE MAINTENANCE AREAS
 - AREAS WHERE STORMWATER FLOWS WITHIN THE SITE.
 - STORMWATER DISCHARGE POINTS, AND
 - AREAS WHERE STABILIZATION HAS BEEN IMPLEMENTED.
 3. DURING EACH SITE INSPECTION, CONTRACTOR SHALL CHECK:
 - WHETHER STORMWATER CONTROLS OR POLLUTION PREVENTION PRACTICES ARE PROPERLY INSTALLED, REQUIRING CORRECTIVE ACTION, OR WHETHER NEW OR MODIFIED CONTROLS ARE REQUIRED;
 - FOR THE PRESENCE OF CONDITIONS THAT COULD LEAD TO SPILLS, LEAKS, OR OTHER POLLUTANT ACCUMULATIONS AND DISCHARGES;
 - FOR LOCATIONS WHERE NEW OR MODIFIED STORMWATER CONTROLS ARE NECESSARY TO MEET REQUIREMENTS OF EPA SWPPP OR SOIL EROSION PERMIT;
 - WHETHER THERE ARE VISIBLE SIGNS OF EROSION AND SEDIMENT ACCUMULATION AT POINTS OF DISCHARGE AND TO THE CHANNELS AND STREAMBANKS THAT ARE IN THE IMMEDIATE VICINITY OF THE DISCHARGE
 - IF A STORMWATER DISCHARGE IS OCCURRING AT THE TIME OF INSPECTION, WHETHER THERE ARE OBVIOUS VISUAL SIGNS OF POLLUTANT DISCHARGES; AND
 - IF ANY PERMIT VIOLATIONS HAVE OCCURRED ON THE SITE

GENERAL SHEET NOTES

1. REFER TO C-001 COVER SHEET FOR GENERAL NOTES REFERENCING SURVEY INFORMATION, DATUMS, GENERAL PROJECT AND CONSTRUCTION INFORMATION.
2. BMP INSPECTIONS TO BE SCHEDULED DURING CONSTRUCTION. ALL SOIL EROSION AND SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" CURRENT EDITION.
3. PLEASE REFER TO EARTHWORK AND UTILITY TRENCH NOTES ON THE GRADING PLAN AS WELL AS FOR SPECIFIC REFERENCE TO THE GEOTECHNICAL REPORT.
4. ALL SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION SHALL BE TEMPORARILY SEEDED AND HAY MULCHED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER. THIS TEMPORARY COVER SHALL BE MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT RESTABILIZATION IS ESTABLISHED.
5. SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
6. ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE IMMEDIATELY RECTIFIED.
7. SEDIMENT IN BASINS SHALL BE REMOVED AT REGULAR INTERVALS. THE LAST TWO FEET OF ANY INFILTRATION BASINS SHOULD NOT BE EXCAVATED IF IT WILL BE USED AS A SEDIMENT BASIN. BASIN CONSTRUCTION MUST NOT COMPACT SOILS AT BASIN BOTTOM.
8. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. ALL PUMP DEWATERING SHALL BE DIRECTED TOWARD A SEDIMENT BASIN.
9. THE MAXIMUM SOIL SLOPES SHALL NOT EXCEED 3:1 UNLESS ADDITIONAL MEASURES ARE TAKEN AND APPROVED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.

CLEARING/DEMOLITION NOTES

1. PRIOR TO ANY SOIL DISTURBANCE OR LAND CLEARING, ALL SOIL EROSION AND SEDIMENT CONTROLS MUST BE IN PLACE.
2. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN AS INDICATED ON PLANS SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL REGULATIONS. THE CONTRACTOR SHALL MAINTAIN THESE TREES IN GOOD CONDITION.
3. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION, AS NOTED ON THE PLANS.
4. THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANIES TO DISCONNECT / RELOCATE THEIR FACILITIES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO ANY DEMOLITION.
5. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ONSITE, PROVIDED THAT THE MATERIAL IS DEEMED SUITABLE FOR CONSTRUCTION BY THE OWNER'S SOIL TESTING COMPANY.
6. THE CONTRACTOR SHALL CALL DIGSAFENY (811) AT LEAST 72 HOURS PRIOR TO ANY EARTHWORK ACTIVITIES.

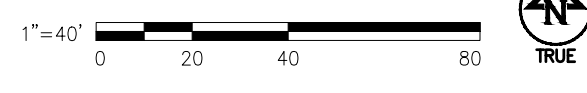
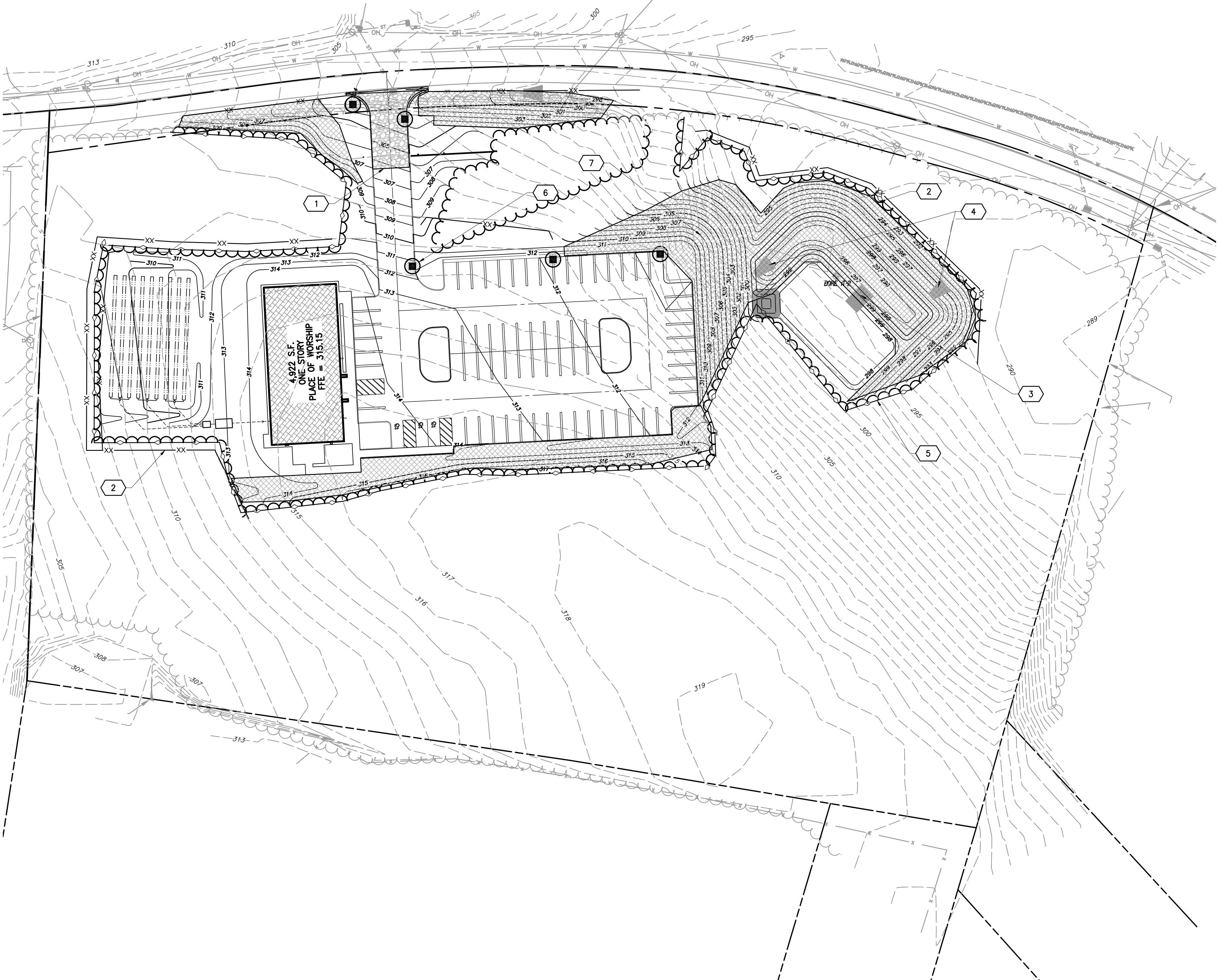
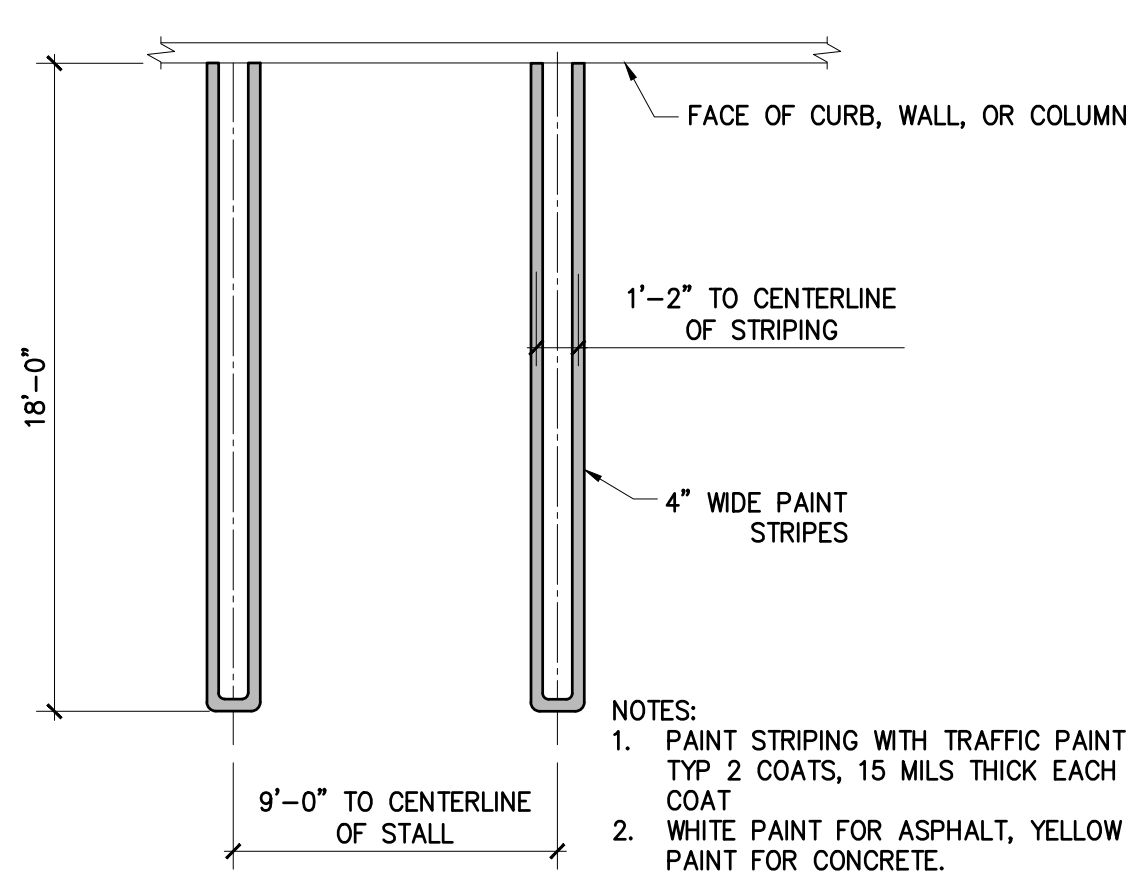
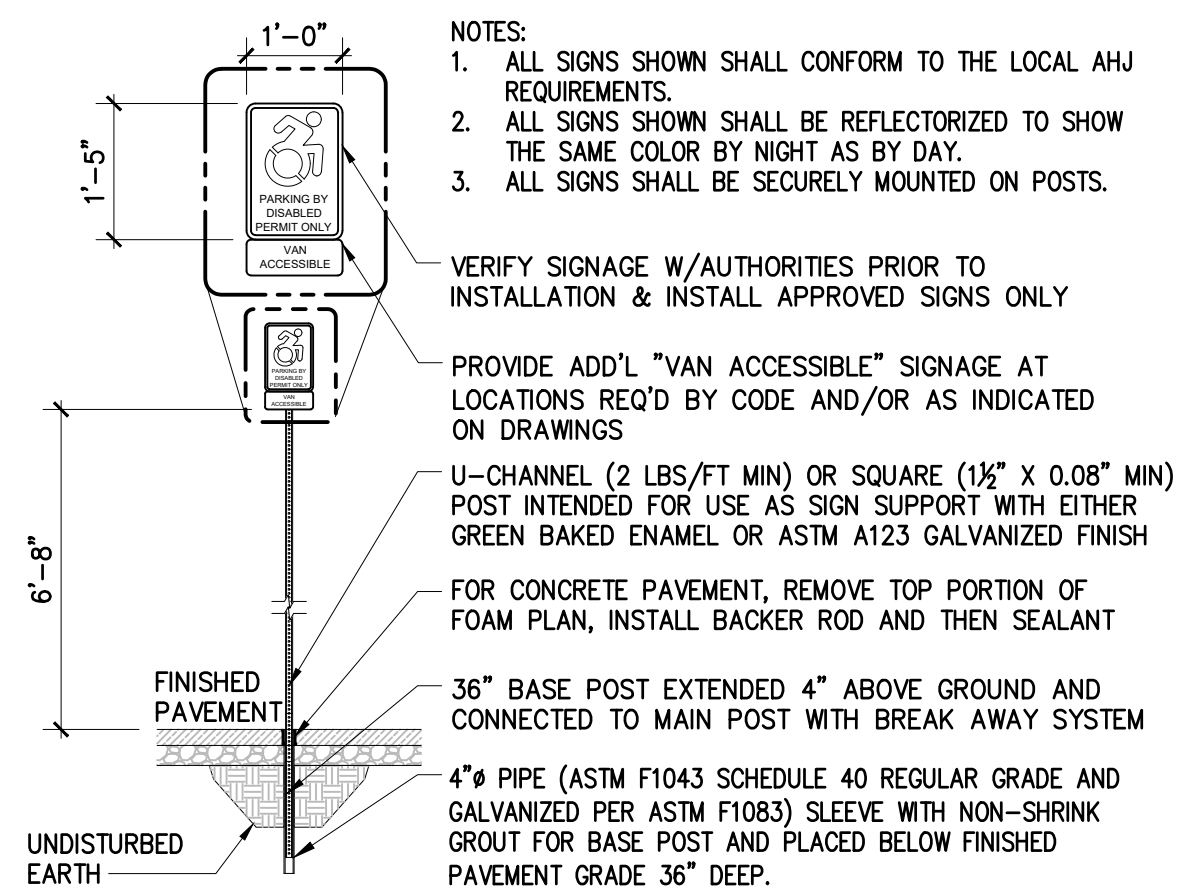


IMAGE: ###
XREF: ###
IMAGE: ###
XREF: ###
IMAGE: ###
XREF: ###
IMAGE: ###
XREF: ###
XREF: ###
XREF: ###
XREF: ###
XREF: ###
XREF: ###

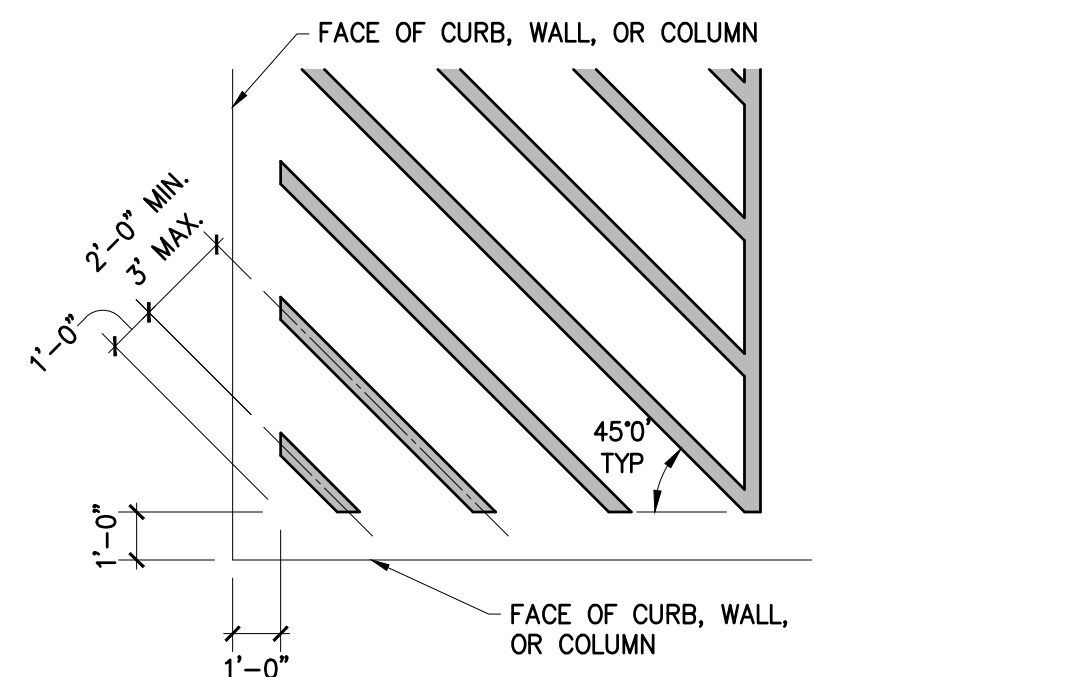
PLOTTED BY:
DMSCALE: 20.00
FILE PATH: E:\2022\2200152.00 Newburgh Civil Design -WCS\CADD\01 CIVIL\USA37035_CE101_Erosion_Control_Plan.dwg
PLOT DATE:
DSON\DRFT:
FILE PATH: E:\2022\2200152.00 Newburgh Civil Design -WCS\CADD\01 CIVIL\USA37035_CE101_Erosion_Control_Plan.dwg



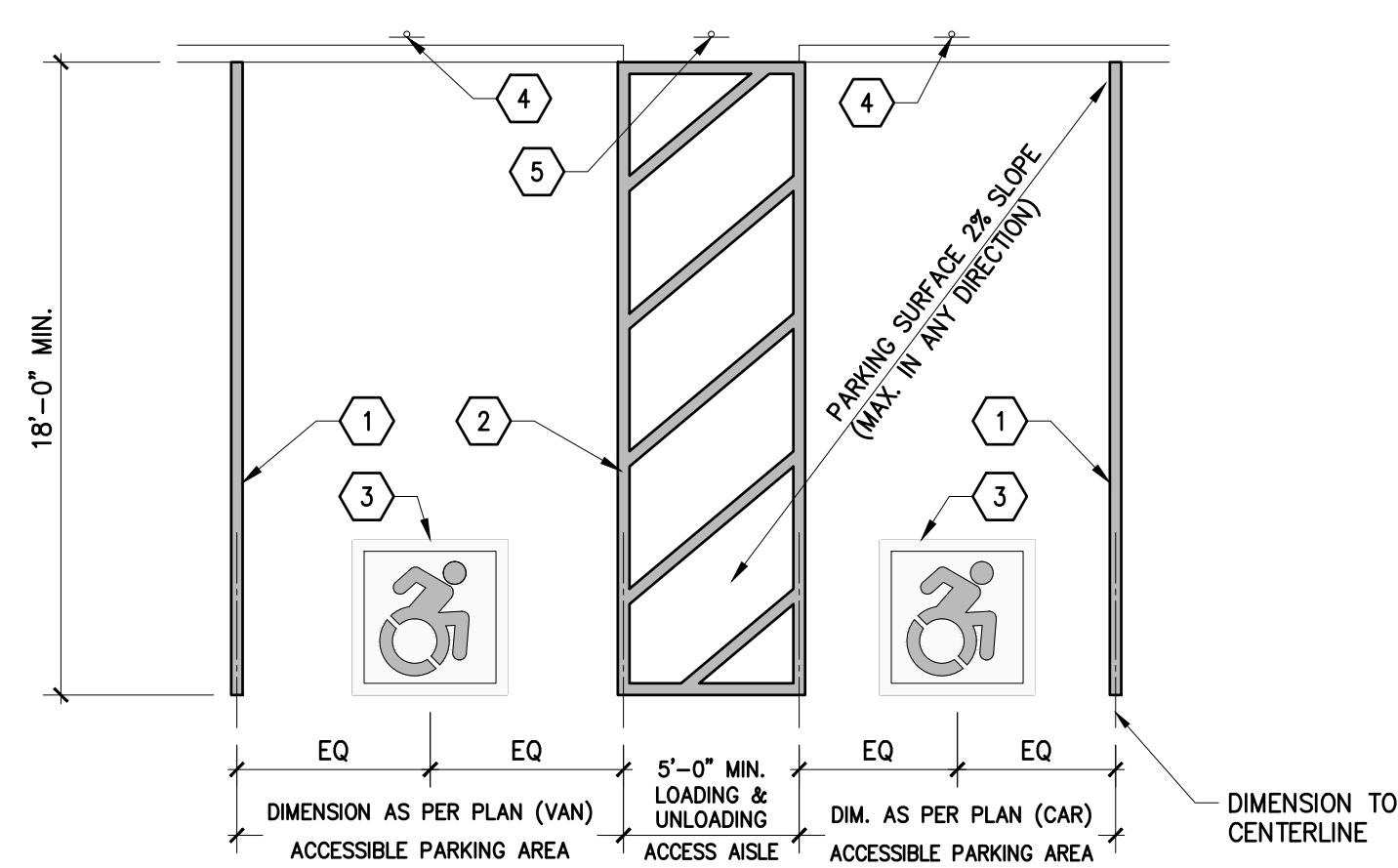
1 **DETAIL - PARKING STRIPING**
 3/16"=1'-0"
 0' 2'-0" 4'-0" 8'-0"



2 **DETAIL - ACCESSIBLE PARKING SIGN**
 1/4"=1'-0"
 0' 2'-0" 4'-0" 8'-0"



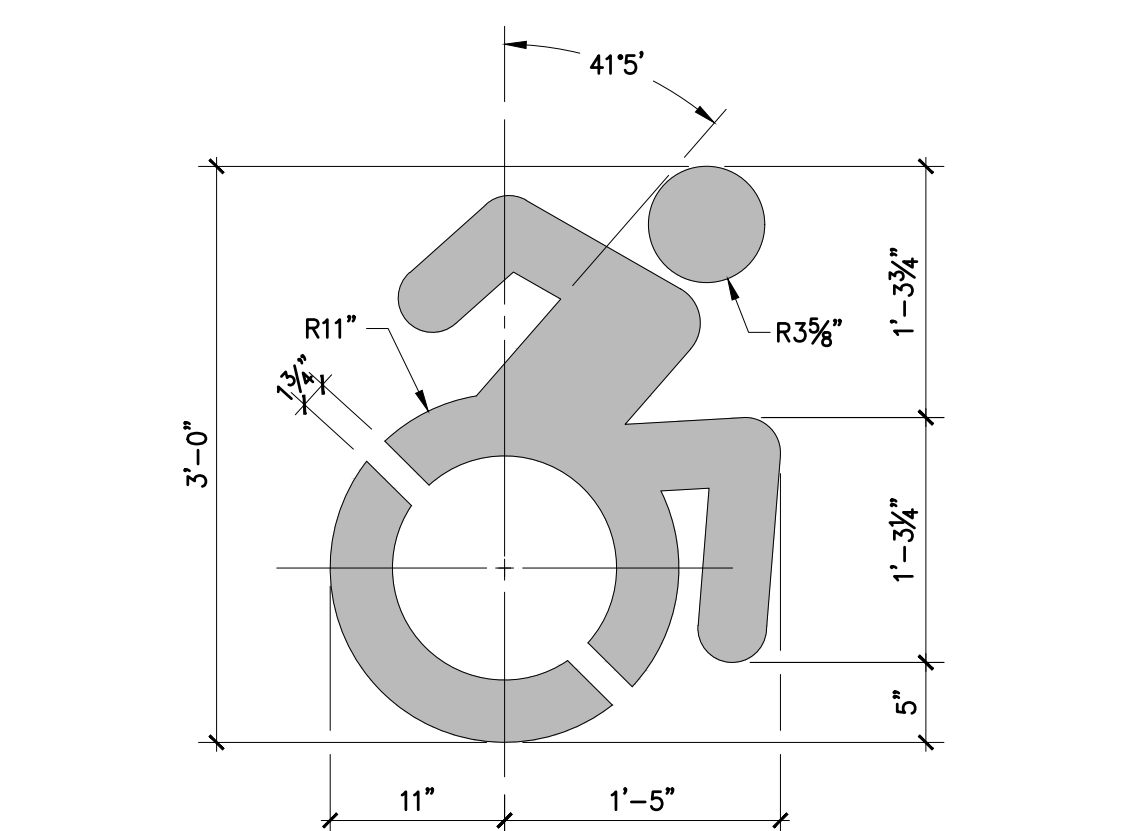
3 **DETAIL - DIAGONAL STRIPING (TYP)**
 1/4"=1'-0"
 0' 2'-0" 4'-0" 8'-0"



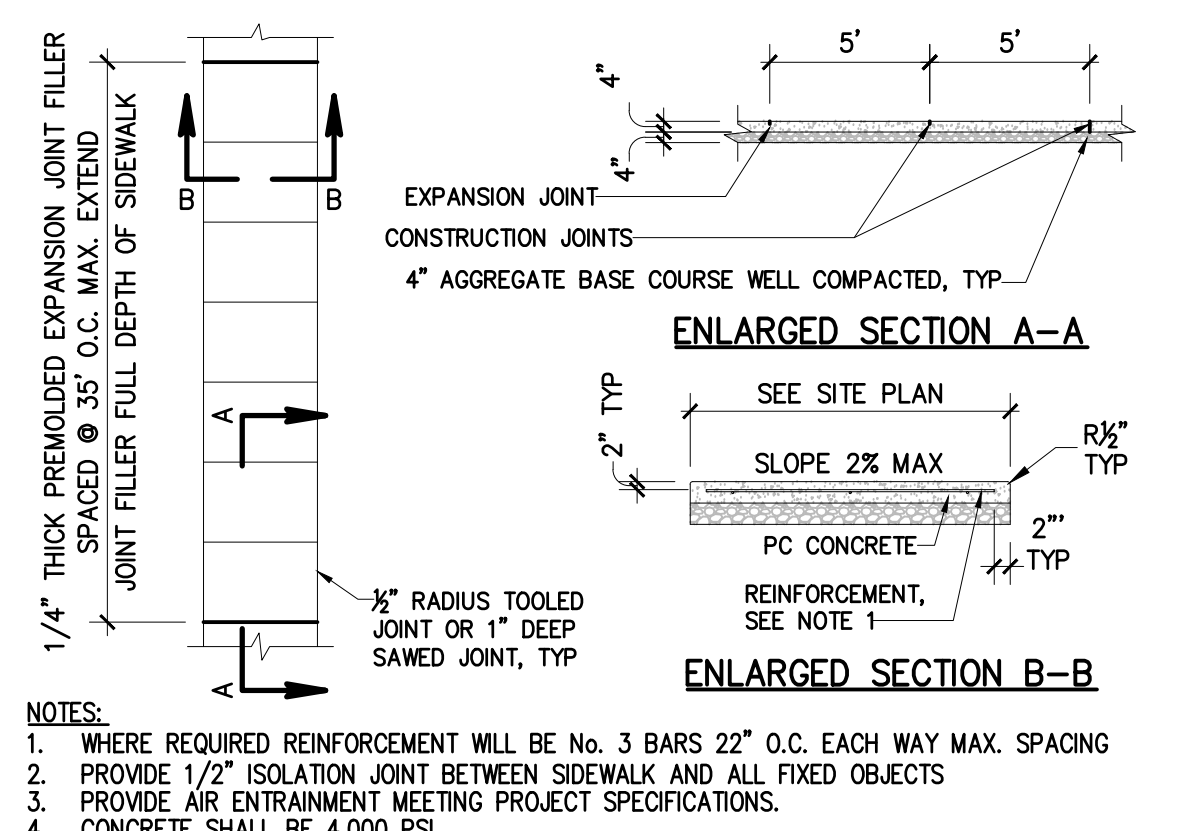
4 **DETAIL - ACCESSIBLE PARKING STRIPING**
 3/16"=1'-0"
 0' 2'-0" 4'-0" 8'-0"

DETAIL KEYNOTES
 THIS DETAIL CONTAINS TYPICAL SPECIFICATIONS, CONSULT PLAN FOR ACTUAL LAYOUT OF PAVEMENT MARKING AND SIGNS.

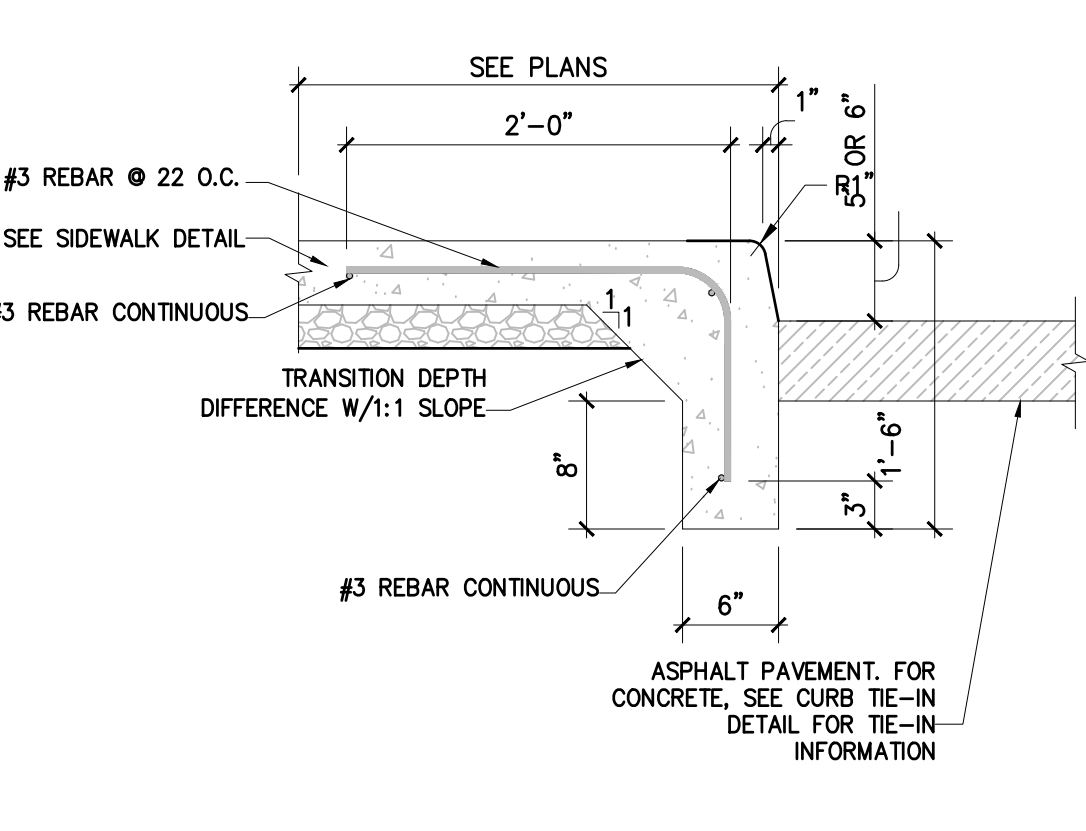
1. PARKING AREA SHALL BE MARKED BY 4" WIDE BORDER. COLOR SHALL BE PER LOCAL AHJ REQUIREMENTS. APPLIES TO BOTH SIDES OF ACCESS AISLE AT DOUBLE PARKING STALLS*
2. ACCESS AISLE SHALL BE MARKED BY 4" WIDE BORDER. WITHIN BORDER, HATCHED LINES 3/8" O.C. MAX. SHALL BE PAINTED COLOR CONTRASTING WITH PARKING SURFACE PER LOCAL AHJ REQUIREMENTS.
3. NYS INTERNATIONAL SYMBOL OF ACCESS PAVEMENT MARKING. SEE DETAIL 5/C-501
4. ACCESSIBLE PARKING SIGN. SEE SEPARATE DETAIL 2/C-501
5. NO PARKING SIGN. SEE SHEET CS-101.



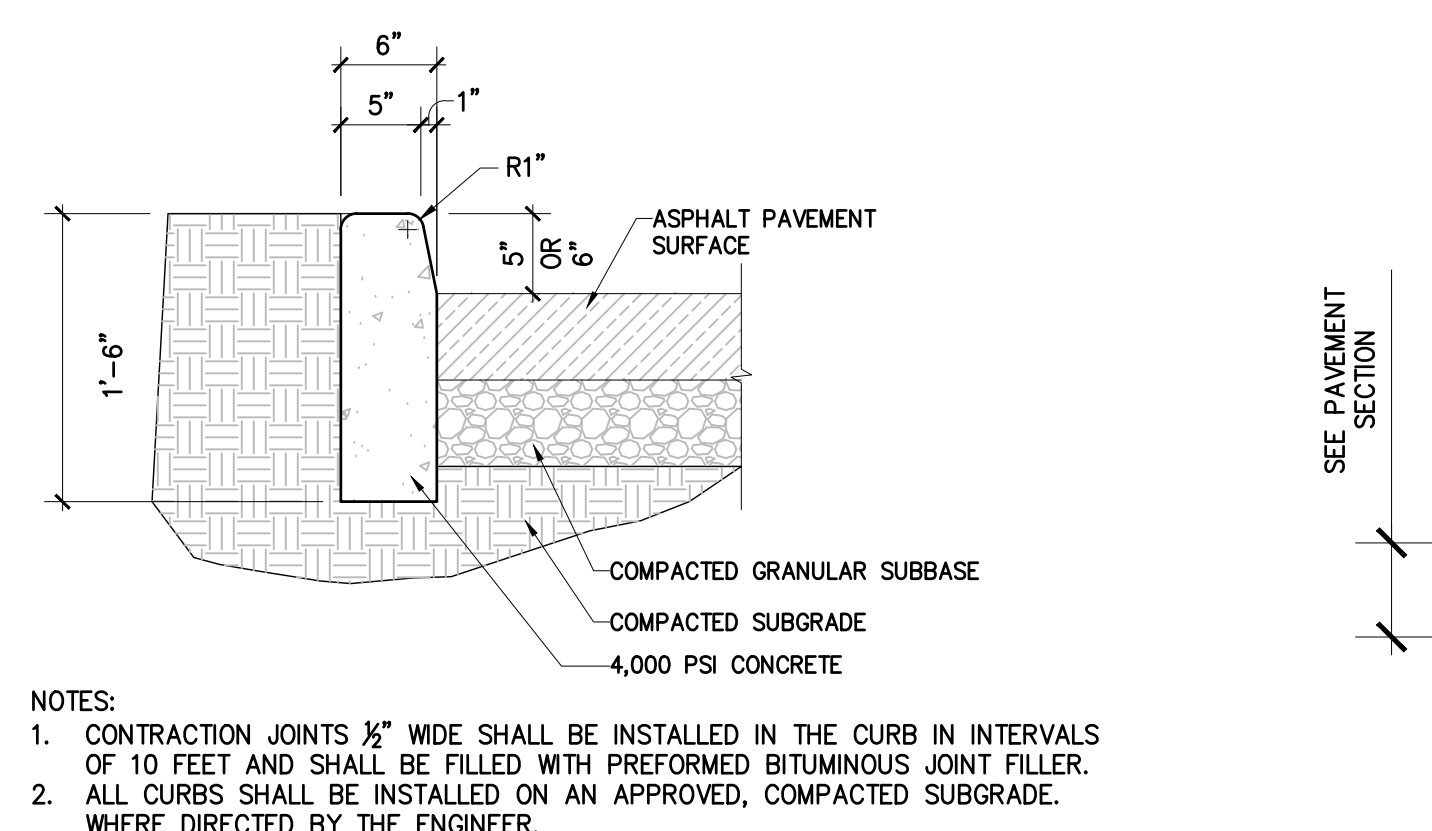
5 **DETAIL - NYS INTERNATIONAL SYMBOL OF ACCESSIBILITY**
 1"=1'-0"
 0' 6" 1'-0" 2'-0"



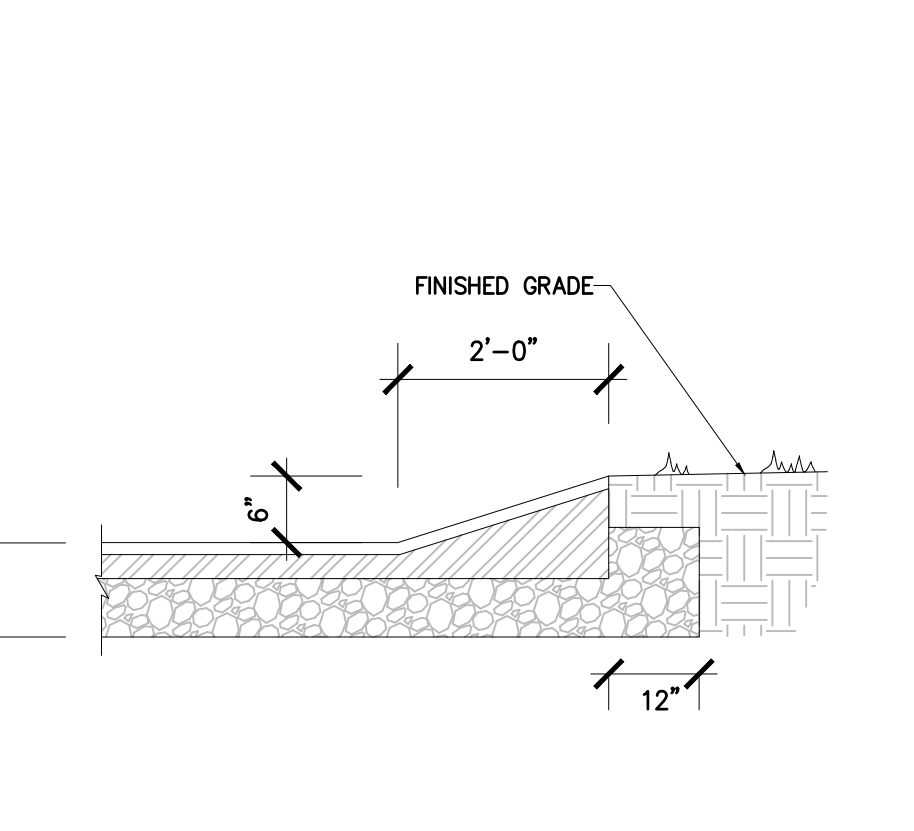
6 **DETAIL - CONCRETE SIDEWALK**
 1"=1'-0"
 0' 6" 1'-0" 2'-0"



7 **DETAIL - SIDEWALK TURNDOWN WITH INTEGRATED CURB**
 1"=1'-0"
 0' 6" 1'-0" 2'-0"



8 **DETAIL - VERTICAL CONCRETE CURB**
 1"=1'-0"
 0' 6" 1'-0" 2'-0"



9 **DETAIL - 2' ASPHALT WING CURB**
 1"=1'-0"
 0' 6" 1'-0" 2'-0"

XREF: IMAGE
 XREF: IMAGE
 XREF: IMAGE
 XREF: IMAGE
 XREF: IMAGE
 XREF: IMAGE

XREF: IMAGE
 XREF: IMAGE
 XREF: IMAGE
 XREF: IMAGE
 XREF: IMAGE
 XREF: IMAGE

PLOT DATE: 28 Apr 23 PLOTTED BY: Andy LaPort V
 DIMSCALE: 1:10000 DSN\DRFT:
 FILE PATH: E:\2022\2200152.00 Newburgh Civil Design - WPCS\CA00\01 CIVIL\USA37035_C-501_Site_Details.dwg

CIVIL ENGINEER

GPI Engineering Design Planning Construction Management
 518.483.9433 GPINET.COM
 Greenman-Pedersen, Inc.
 80 Wolf Road, Suite 300
 Albany, NY 12205

STATE OF NEW YORK
 GREENMAN PEDERSEN INC.
 LICENSED PROFESSIONAL ENGINEER
 No. 131

CONSULTANT:

NOT FOR CONSTRUCTION
 THIS DRAWING PROVIDED ONLY FOR REVIEW AND APPROVAL

28 APR 23	SUBMISSION TO TOWN
15 FEB 23	SUBMISSION TO TOWN
11 NOV 22	SUBMISSION TO TOWN
20 OCT 22	GPI CONCEPT FOR REVIEW
16 SEP 22	CONCEPT FOR REVIEW

MARK: DATE: DESCRIPTION:

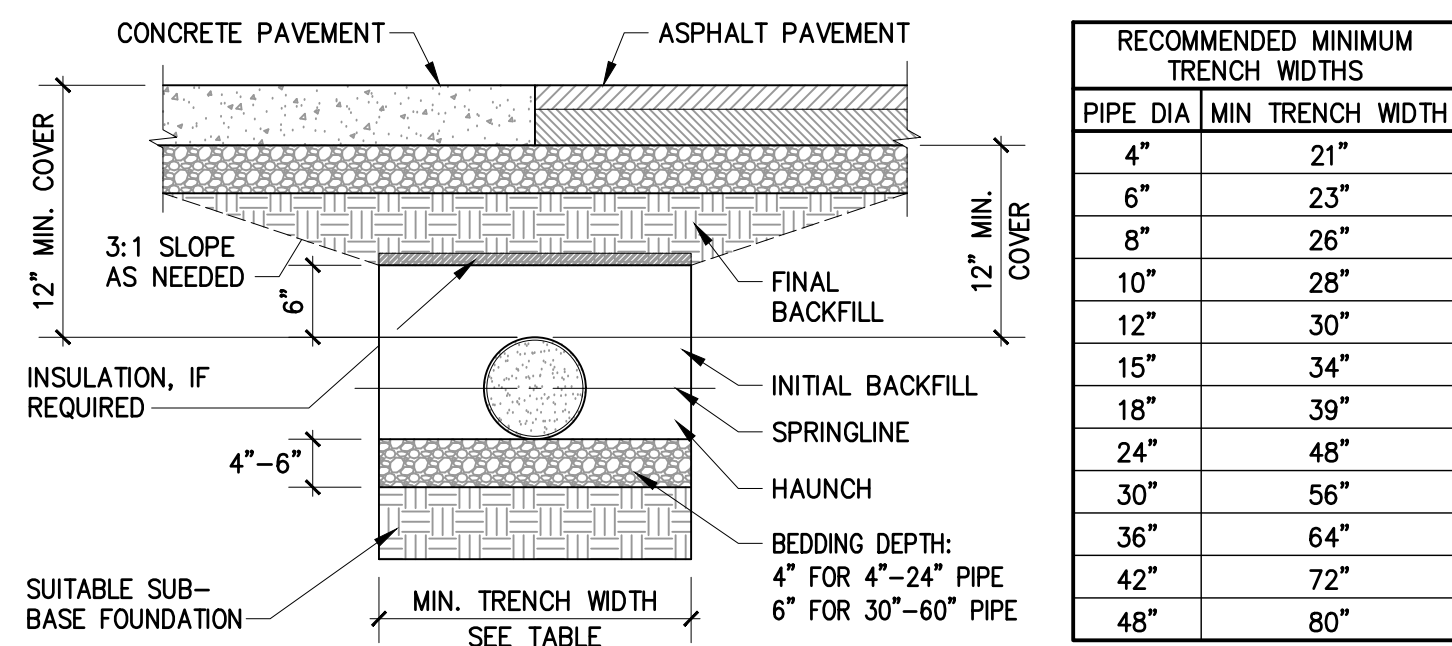
OWNER:
JW CONGREGATION SUPPORT, INC.
 1005 RED MILLS ROAD
 WALLKILL, NY 12589-3283

PROJECT TITLE:
NEWBURGH KINGDOM HALL OF JEHOVAH'S WITNESSES
 33 OLD LITTLE BRITAIN RD
 NEWBURGH, NY 12550

SHEET TITLE:
SITE DETAILS

PROJECT No. **37147**

SHEET No. **C-501**

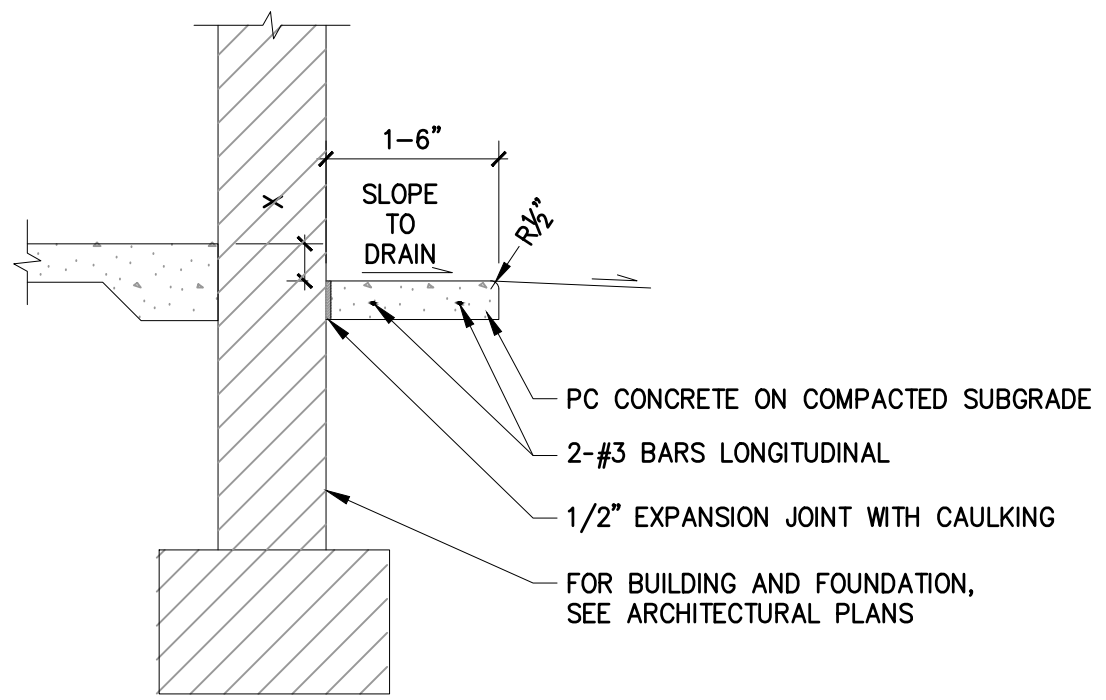


PIPE DIA	MIN TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"

- NOTES:
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
 - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED. SLOPING THE SIDES OF THE TRENCH AT 3:1 SHOULD BE PERFORMED WHEN NECESSARY TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER.
 - BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4"-24"; 6" FOR 30"-60".
 - INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
 - FINAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III UNDER ALL SIDEWALK, PARKING AND PAVED AREAS. PLACE IN LOOSE LIFTS NOT TO EXCEED 8" AND MECHANICALLY COMPACT TO A DENSITY OF AT LEAST 98 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D698.

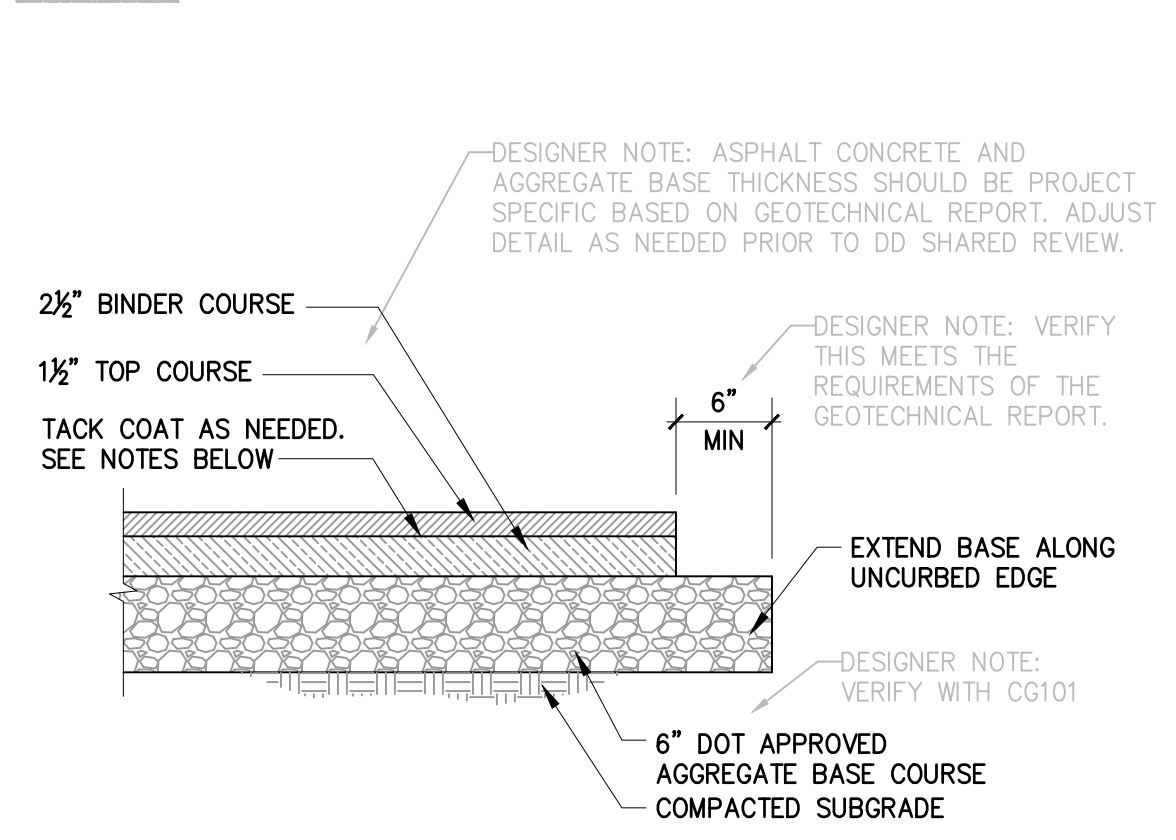
DESCRIPTION OF CLASSES:
 CLASS I ANGULAR CRUSHED STONE OR ROCK, DENSE OR OPEN GRADED WITH LITTLE OR NO FINES (1/4" TO 1 1/2" IN SIZE).
 CLASS II CLEAN, COARSE-GRAINED MATERIAL, SUCH AS GRAVEL, COARSE SANDS AND GRAVEL/SAND MIXTURES (1 1/2" MAXIMUM IN SIZE).
 CLASS III COARSE GRAINED MATERIAL WITH FINES INCLUDING SILTY OR CLAYEY GRAVELS OR SANDS. GRAVEL OR SAND MUST COMPRISE MORE THAN 50% OF THE CLASS III MATERIAL (1 1/2" MAXIMUM SIZE).

1 DETAIL - SEWER PIPE TRENCH

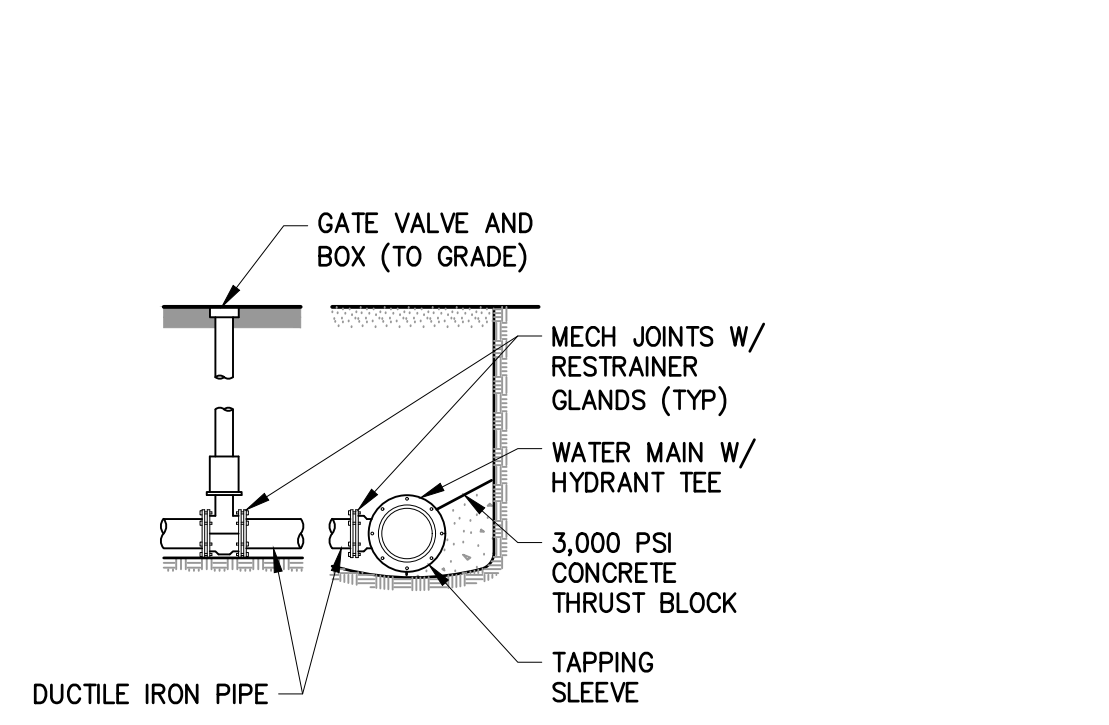


- NOTES:
- PROVIDE 1/2" ISOLATION JOINT BETWEEN APRON AND ALL FIXED OBJECTS.
 - PROVIDE AIR ENTRAINMENT MEETING PROJECT SPECIFICATIONS.
 - CONCRETE SHALL BE 4,000 PSI.
 - APRONS MEETING EXISTING SIDEWALKS SHALL MATCH PATTERN, FINISH AND COLOR OF EXISTING SIDEWALKS.

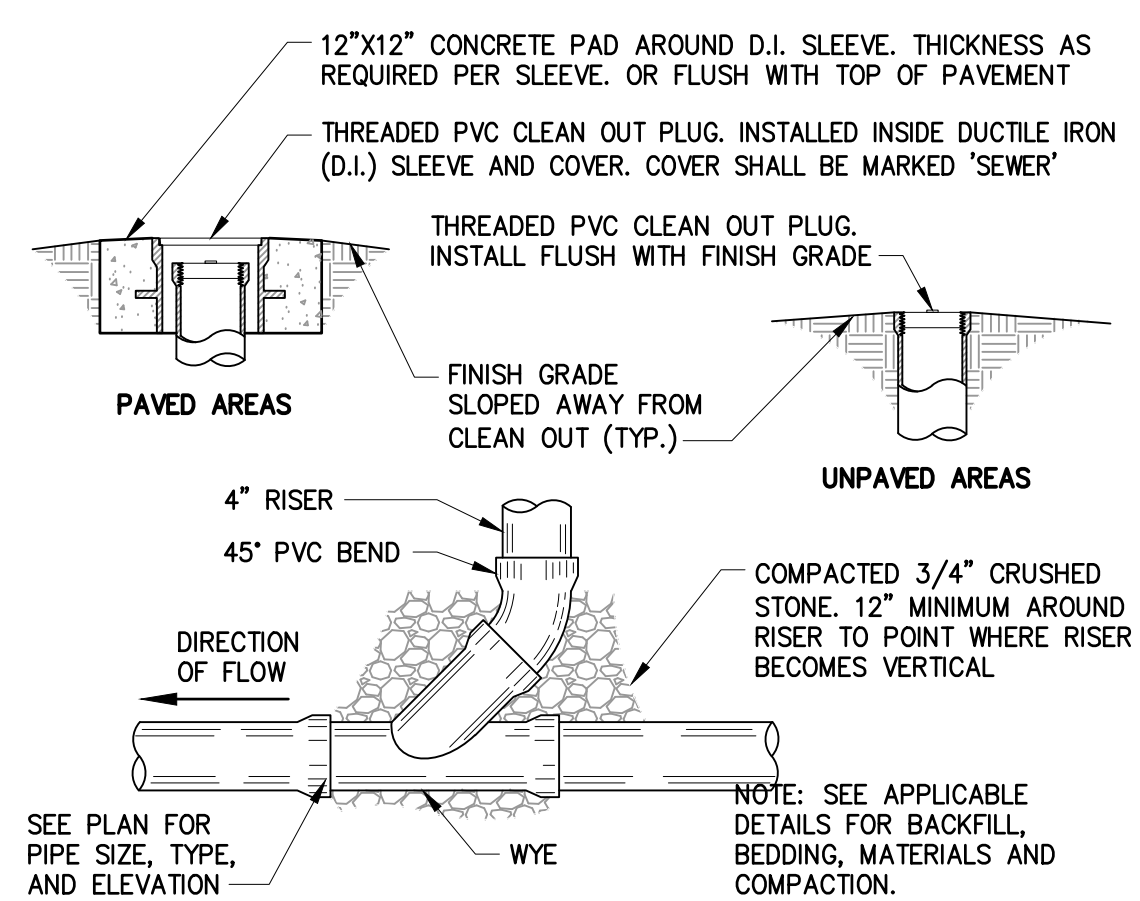
2 DETAIL - CONCRETE APRON



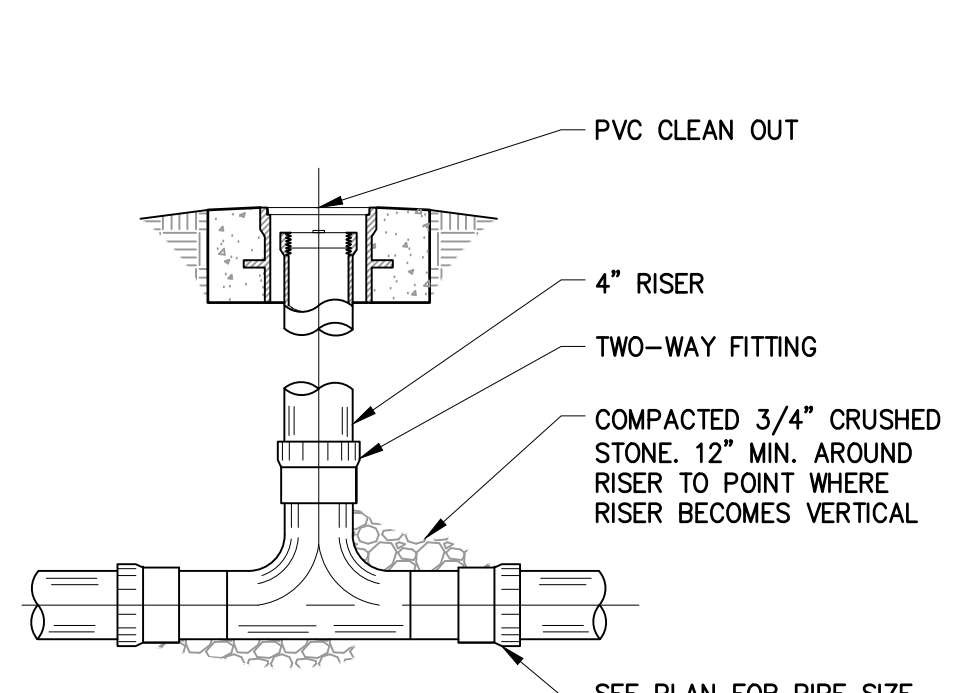
3 DETAIL - ASPHALT PAVEMENT



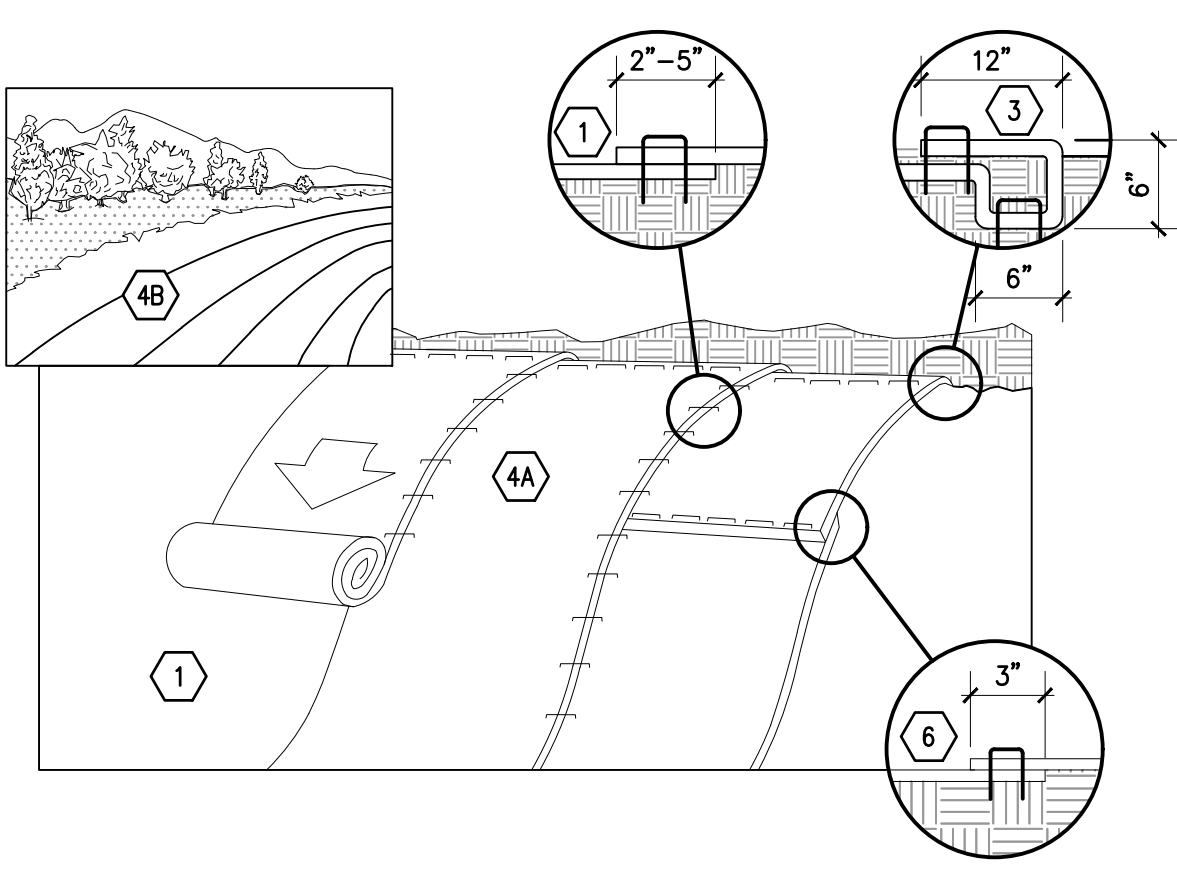
4 DETAIL - WATER SERVICE CONNECTION



5 DETAIL - SEWER CLEANOUT

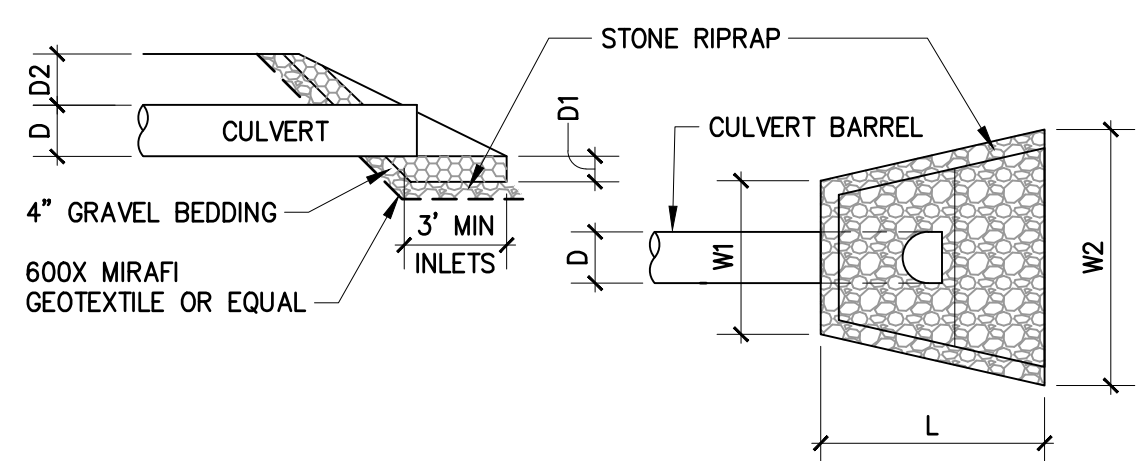


6 DETAIL - SEWER CLEANOUT (DUAL DIRECTION)



7 DETAIL - EROSION CONTROL BLANKET

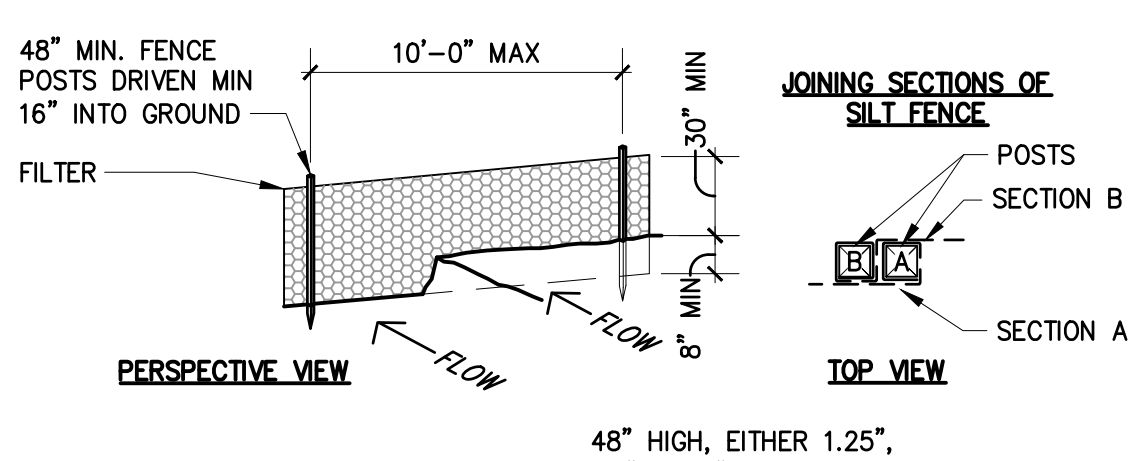
- DETAIL KEYNOTES
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S) INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 - RECP SHALL BE NORTHAMERICAN GREEN S75 OR APPROVED EQUAL.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP x 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UPSLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
 - ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHALL BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP DEPENDING ON THE RECP'S TYPE.
 - CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH.
 - IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTH GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.



D	D1	D2 INLET	D2 OUTLET
8"	9"	24"	12"
12"	9"	24"	12"
15"	9"	24"	12"
18"	14"	24"	12"
36"	14"	24"	12"

D	W1	W2	L	D50
8"	4'	14'	10'	4"
12"	4'	14'	10'	4"
15"	4'	14'	10'	4"
18"	5'	15'	10'	6"
36"	12'	12'	12'	6"

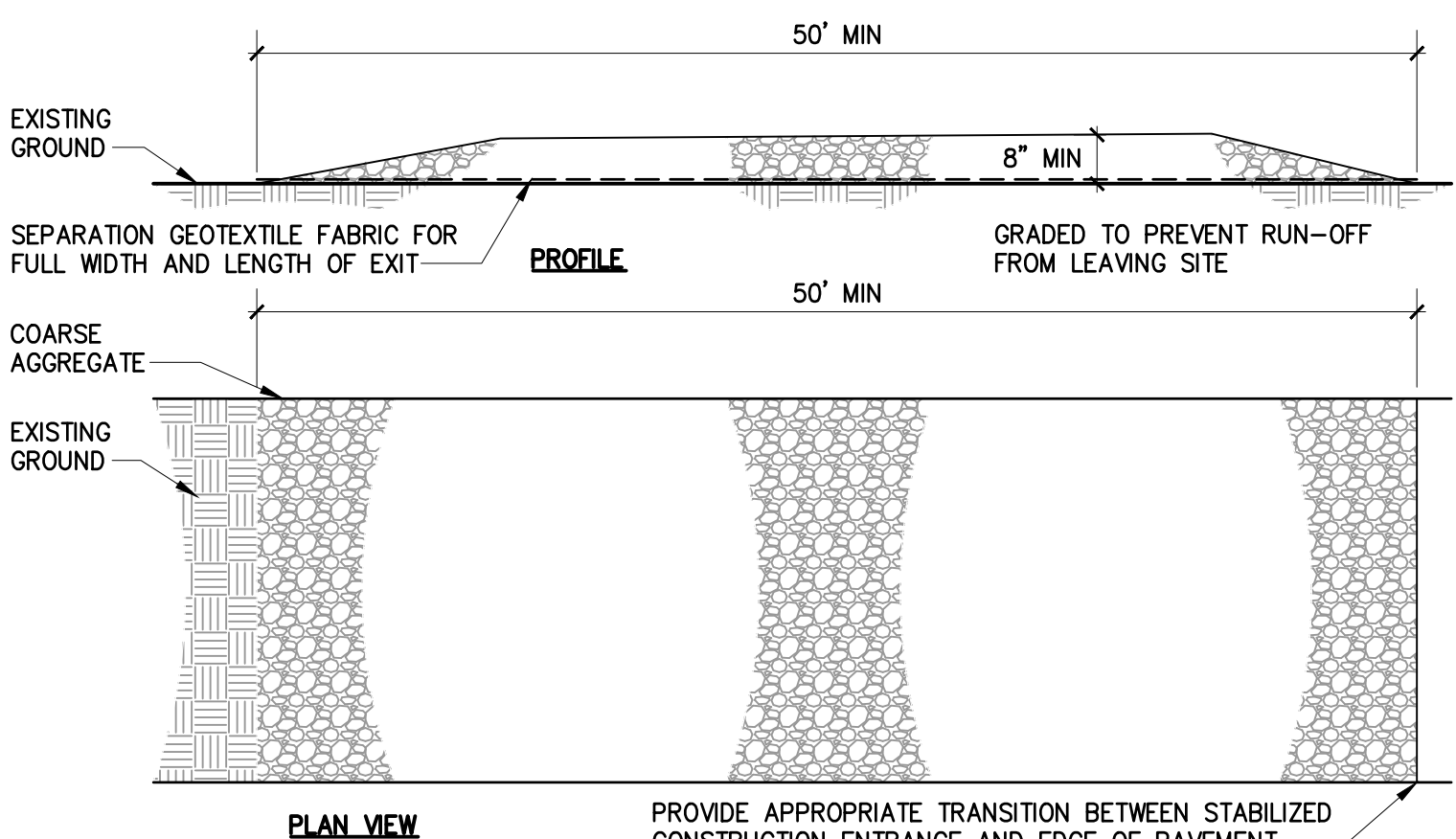
8 DETAIL - RIPRAP APRON



- FABRICATED SILT FENCE CONSTRUCTION NOTES:
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.
 - SILT FENCE WILL BE DOI INDUSTRIES SILT FENCE OR OTHER PRE-APPROVED SILT FENCE MEETING AASHTO M-288 AND MEETING ASTM D4491.

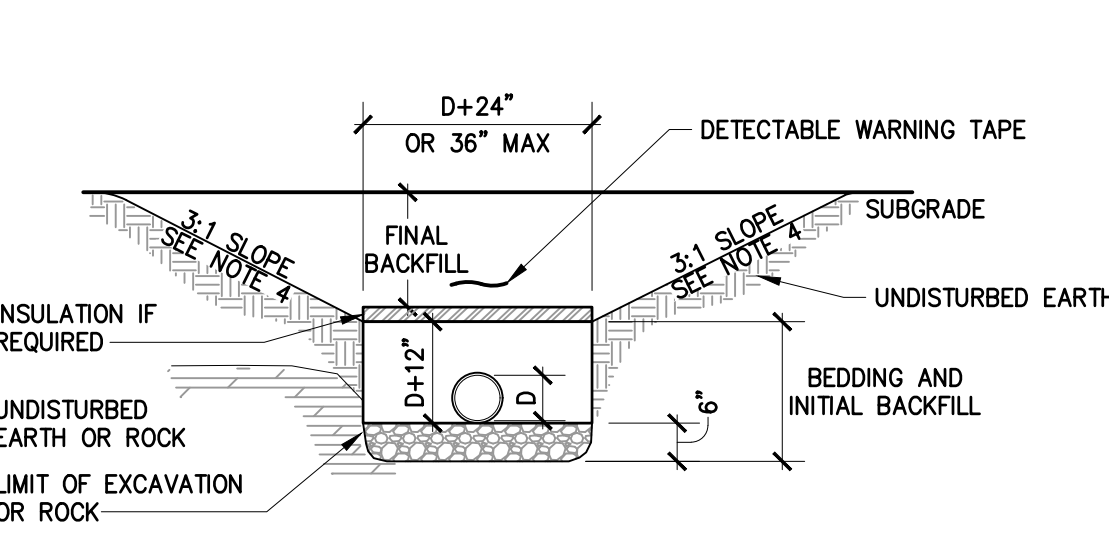
NOTE: IT IS PREFERRED THAT MULCH BERMS CREATED FROM STUMP GRINDINGS OR COIR WATLES BE USED INSTEAD OF SILT FENCE WHERE APPROPRIATE.

9 DETAIL - SILT FENCE



10 DETAIL - STABILIZED CONSTRUCTION ENTRANCE

- CONSTRUCTION ENTRANCE/EXIT NOTES:
- LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
 - THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
 - WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
 - STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
 - STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMMODATE A TRUCK WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE TRUCK WASHING AREA.
 - STABILIZED CONSTRUCTION EXIT SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL COORDINATE LOCATION WITH AGENCIES.
 - STONE SIZE - AASHTO DESIGNATION M43, SIZE NO. 1 (3/8" TO 1 1/2"). USE CRUSHED STONE.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND /OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.



11 DETAIL - PRESSURIZED PIPE TRENCH

CIVIL ENGINEER

GPI Engineering Design Planning Construction Management
 518.483.9433 GPNET.COM
 Greenman-Pedersen, Inc.
 80 Wolf Road, Suite 300
 Albany, NY 12205

STATE OF NEW YORK
 GREENMAN PEDERSEN INC.
 LICENSED PROFESSIONAL ENGINEER
 No. 121

CONSULTANT:

NOT FOR CONSTRUCTION
 THIS DRAWING PROVIDED ONLY FOR **REVIEW AND APPROVAL**

DATE	DESCRIPTION
28 APR 23	SUBMISSION TO TOWN
15 FEB 23	SUBMISSION TO TOWN
11 NOV 22	SUBMISSION TO TOWN
20 OCT 22	GPI CONCEPT FOR REVIEW
16 SEP 22	CONCEPT FOR REVIEW

OWNER:
JW CONGREGATION SUPPORT, INC.
 1005 RED MILLS ROAD
 WALLKILL, NY 12589-3283

PROJECT TITLE:
NEWBURGH KINGDOM HALL OF JEHOVAH'S WITNESSES
 33 OLD LITTLE BRITAIN RD
 NEWBURGH, NY 12550

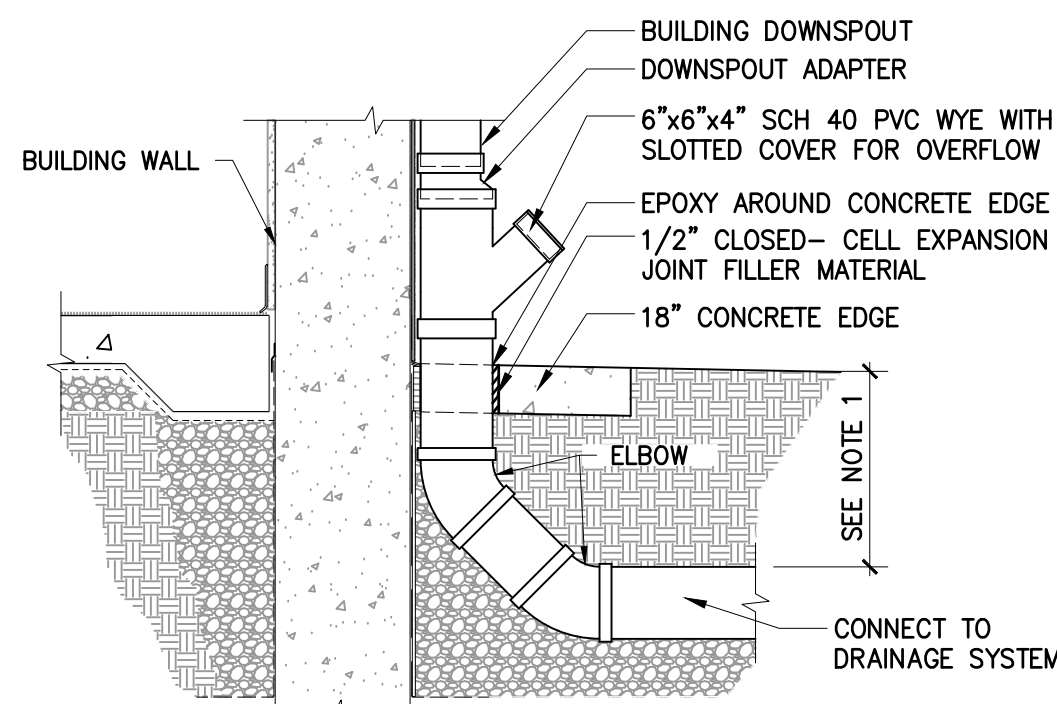
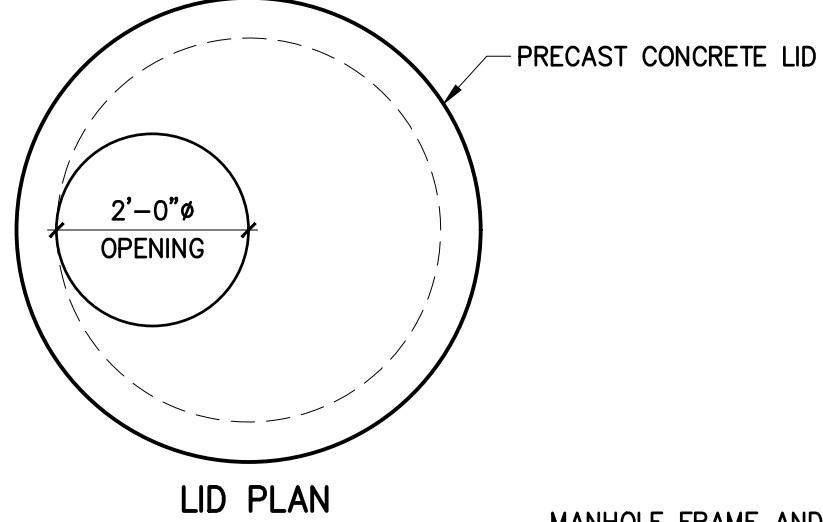
SHEET TITLE:
SITE DETAILS AND NOTES

PROJECT No. **37147**

SHEET No. **C-502**

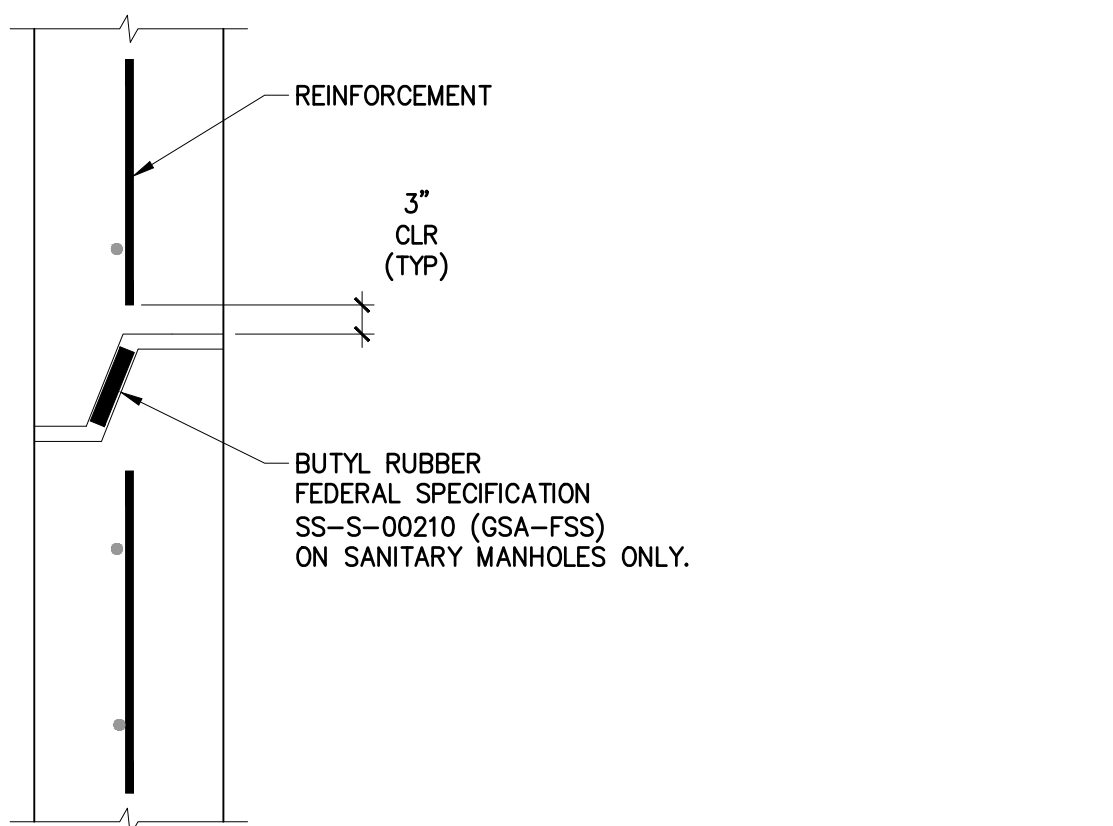
XREF: IMAGE: 28 Apr 23 PLOTTED BY: Andy LaPort V
 DMSCALE: 1:0000 DSN\DRFT1:
 FILE PATH: E:\2022\2200152.00 Newburgh_Civil Design -WCS\CADD\01_CIVIL\USA370235_C-502_Site_Details.dwg

- NOTES:
1. INLET PIPES ARE NOT TO EXTEND MORE THAN 3" INTO MANHOLE. OUTLET PIPES ARE TO BE FLUSH AND ALL EDGES SMOOTH WITH MANHOLE WALL.
 2. MINIMUM SLOPE OF FLOW CHANNEL INVERT FROM INLET TO OUTLET IS 2% UNLESS NOTED OTHERWISE.
 3. REINFORCEMENT SHALL BE FOR H20/ASTM C857 LOADING.
 4. USE 4000+ PSI PRECAST CONCRETE.
 5. IF STRUCTURE EXTENDS BELOW WATER TABLE, ADD WEEP HOLES TO RELIEVE WATER PRESSURE.
 6. INSTALL HEAVY DUTY MANHOLE FRAME AND COVER.
 7. STEPS ARE REQUIRED FOR STRUCTURES DEEPER THAN 4 FEET.
 8. PRECAST MANHOLES SHALL COMPLY WITH ASTM C478 WITH RUBBER GASKETS MEETING ASTM A433 AND STEPS MEETING ASTM C497. IF SQUARE PRECAST BOXED IS USED, IT SHALL MEET ASTM C913.

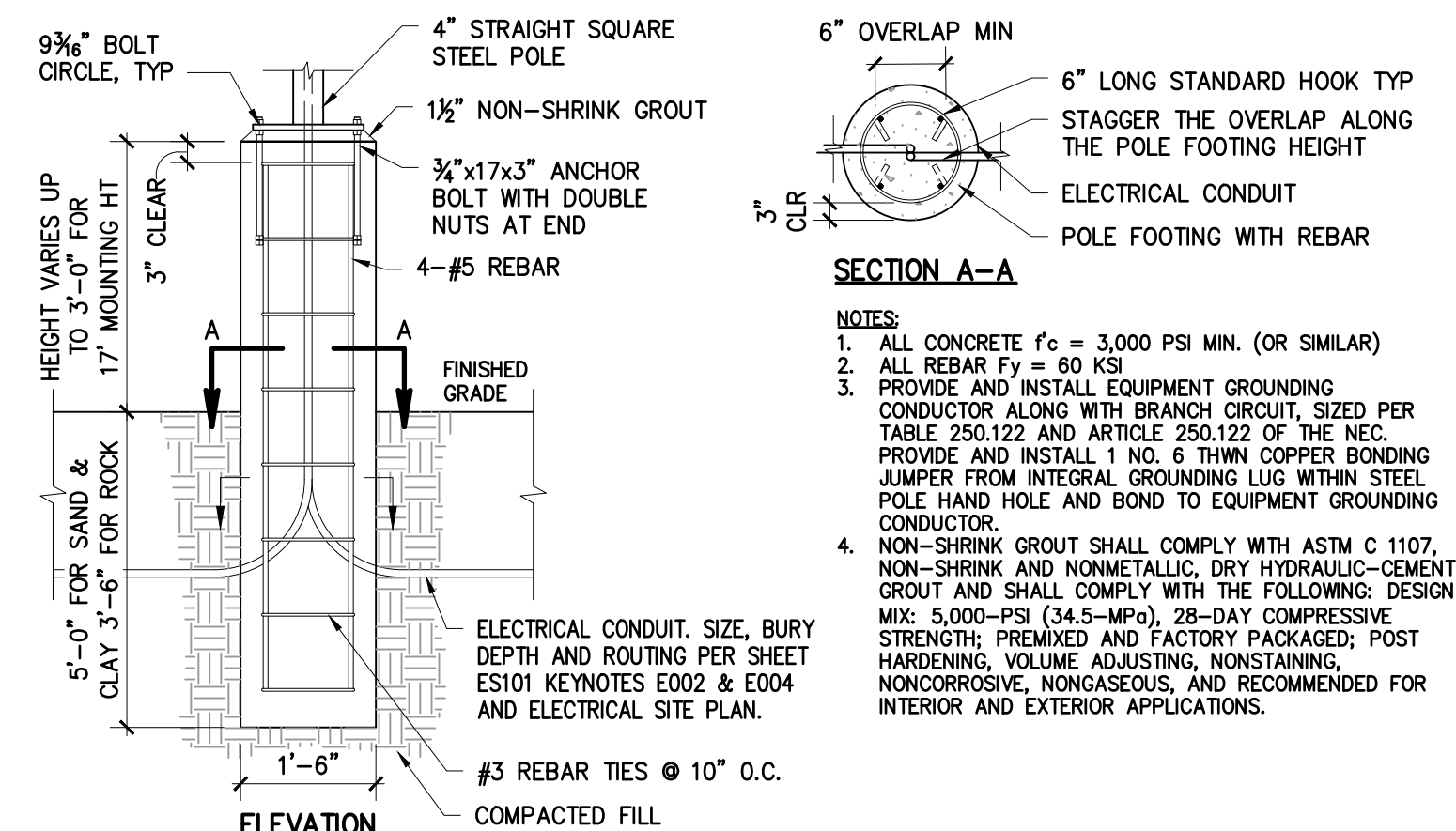


NOTE: SEE SHEET C-502 FOR TRENCH DETAILS AND PIPE COVER REQUIREMENTS

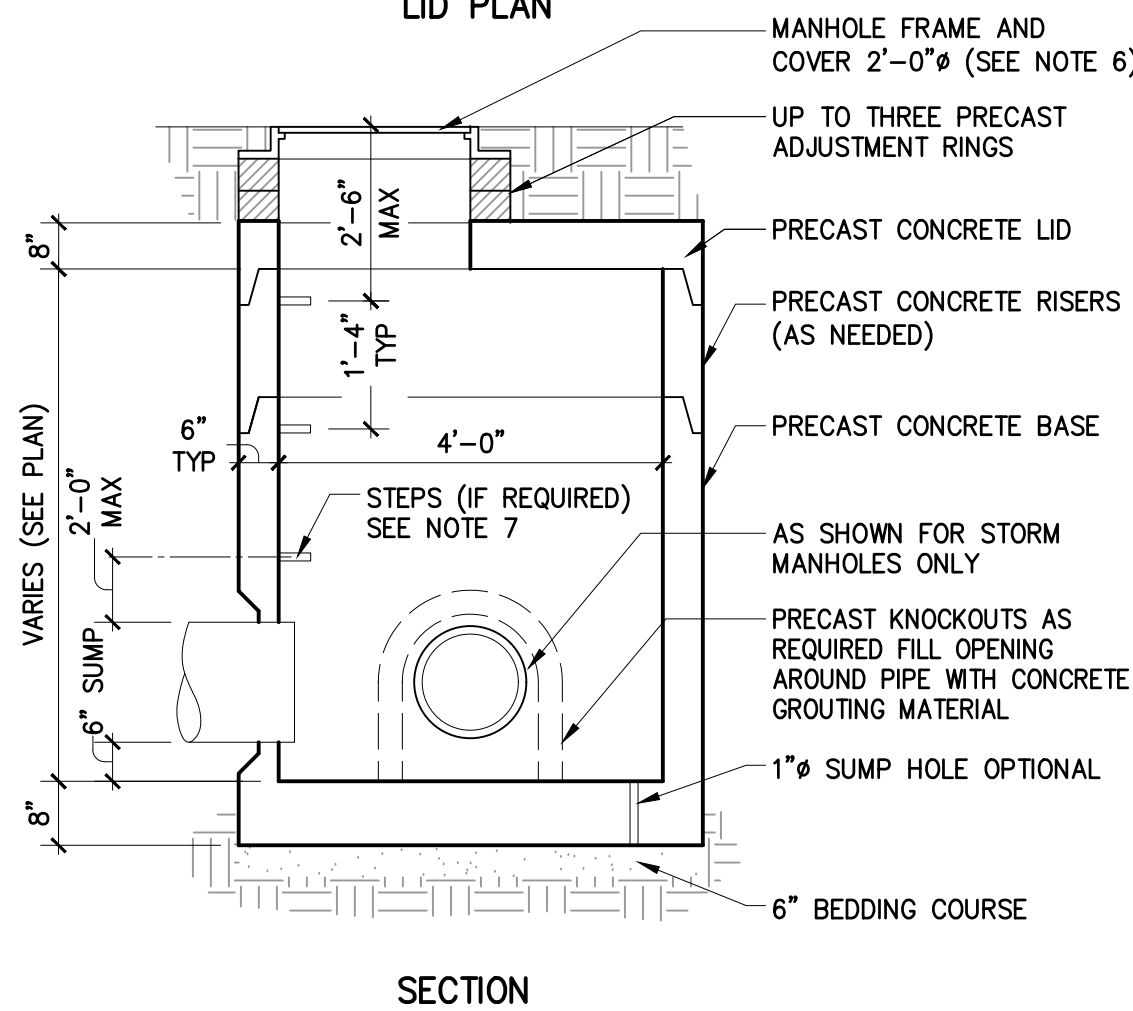
2 DETAIL - DOWNSPOUT GUTTER TO DRAINAGE SYSTEM



3 DETAIL - MANHOLE JOINT



4 DETAIL - LIGHT POLE



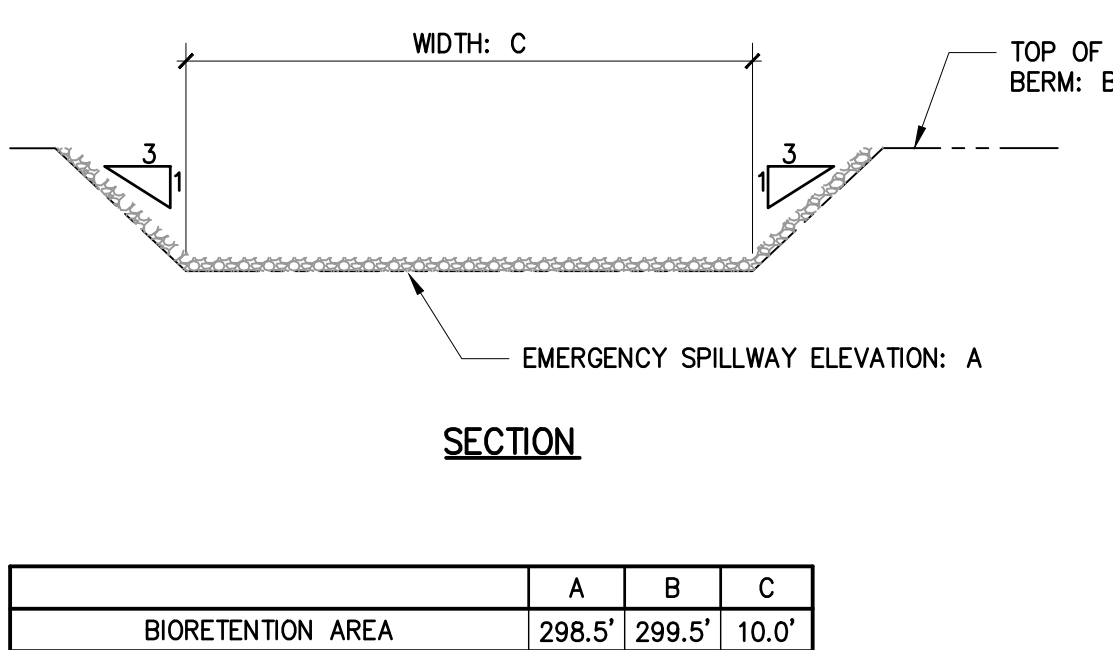
1 DETAIL - STORM DRAIN MANHOLE

DIA.	PIPE DIAMETER (IN)					
	12	15	18	24	30	36
A	6.5	7.5	7.5	7.5	7.5	7.5
B	10.0	10.0	15.0	8.0	22.0	25.0
H	6.5	6.5	6.5	6.5	8.6	8.6
L	25.0	25.0	32.0	36.0	58.0	58.0
W	29.0	29.0	35.0	45.0	63.0	63.0

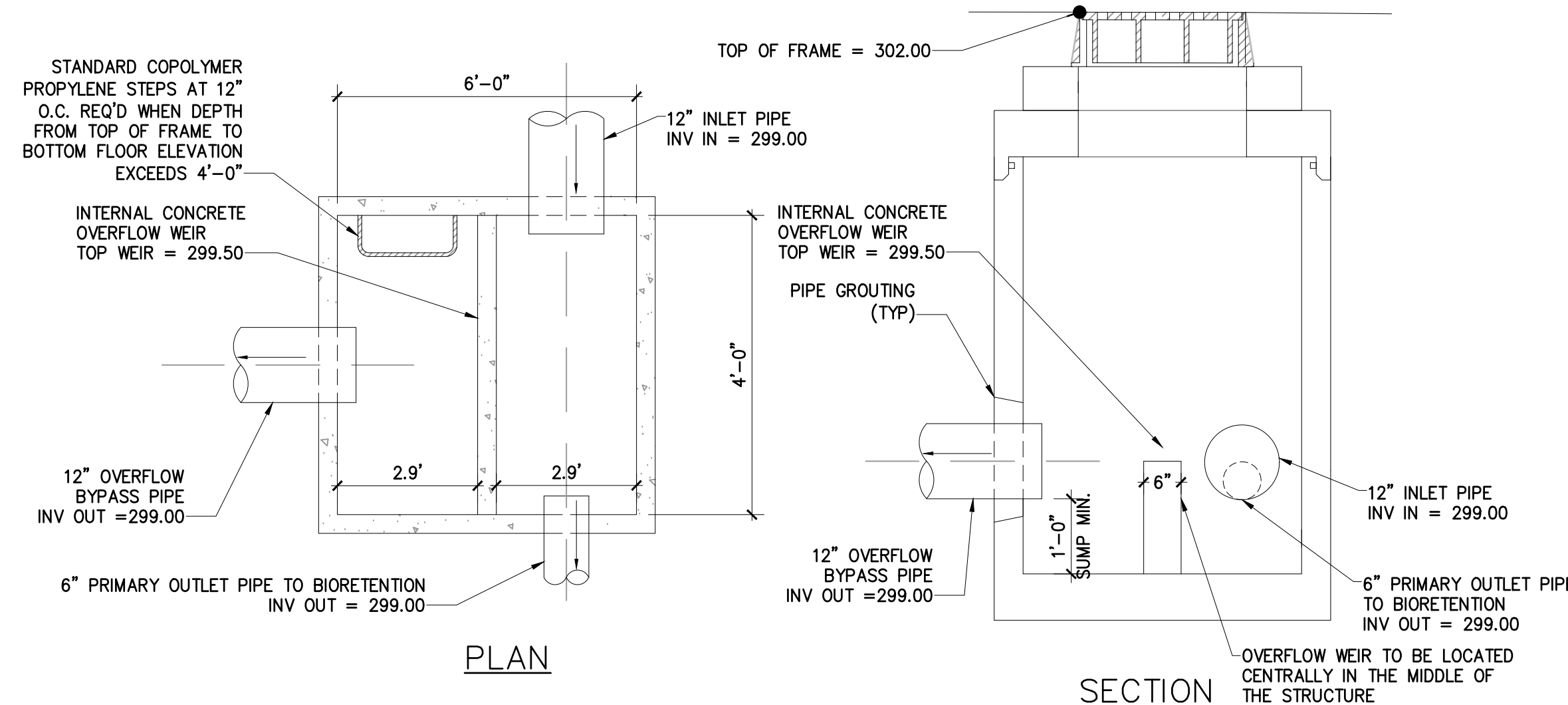
NOTES:

1. ADS FLARED END SECTION FOR PIPE SIZES BETWEEN 12-INCH AND 36-INCHES.
2. THE INVERT OF THE PIPE AND THE FLARED END SECTION SHALL BE AT THE SAME ELEVATION.
3. THE FLARED END SECTION SHALL BE HDPE ASTM D3350 MIN CELL CLASSIFICATION 213320C.
4. WHEN PROVIDED, THE METAL THREADED FASTENING ROD SHALL BE STAINLESS STEEL.

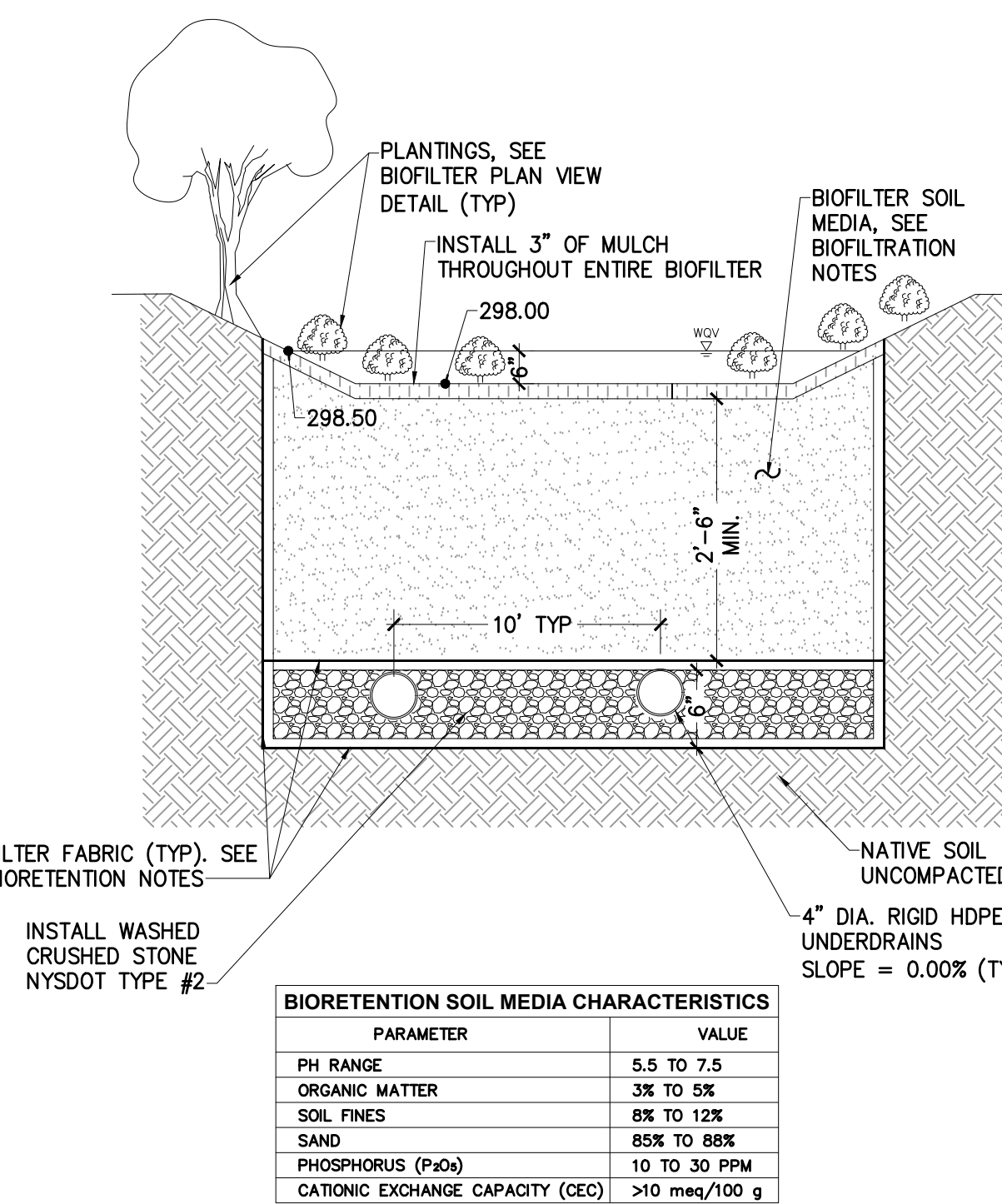
5 DETAIL - FLARED END SECTION



6 DETAIL - EMERGENCY SPILLWAY



7 DETAIL - FLOW SPLITTER MANHOLE

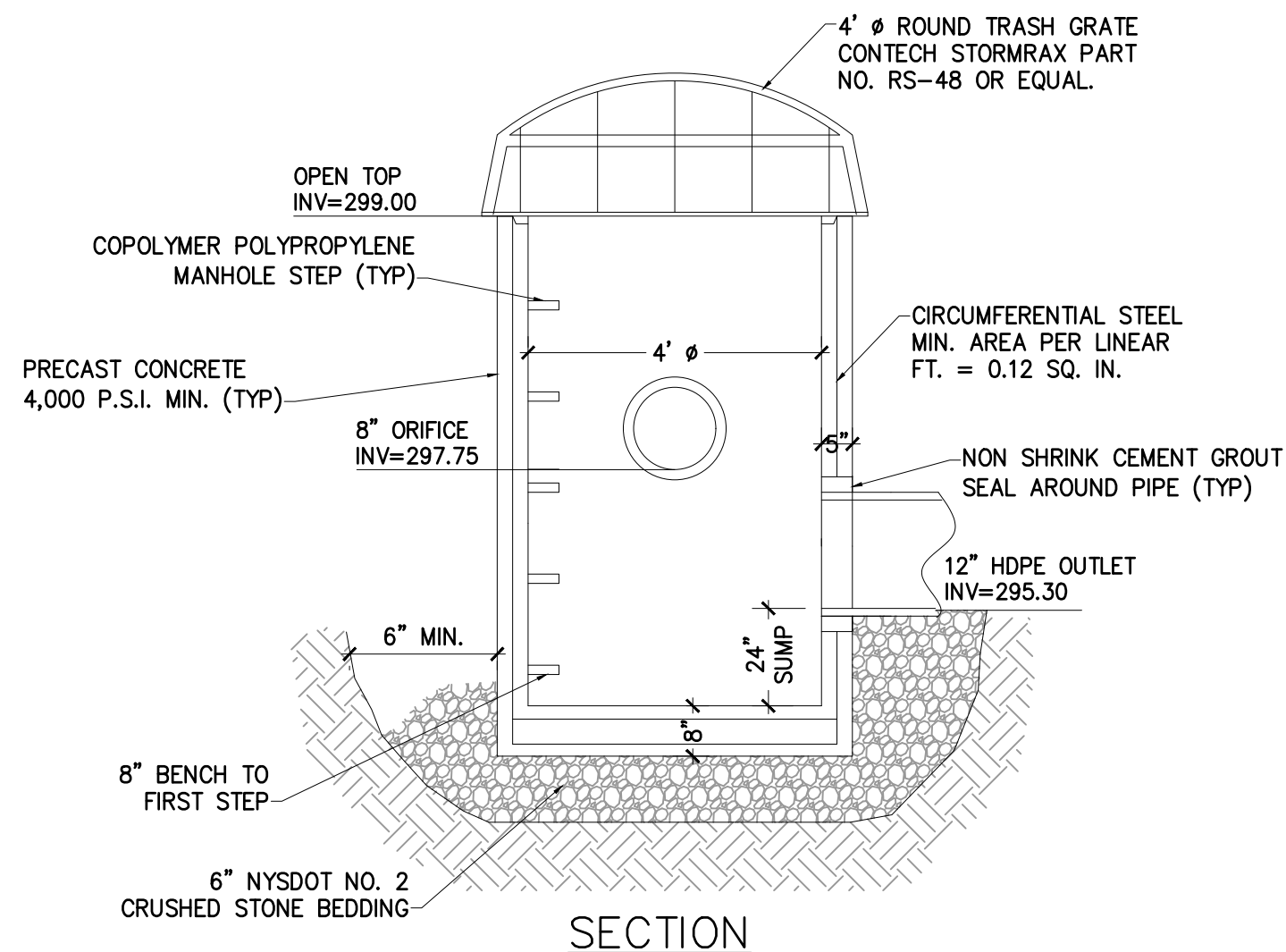


8 DETAIL - BIORETENTION TYPICAL SECTION

BIORETENTION NOTES:

1. THE BIORETENTION AREAS MAY NOT RECEIVE RUN-OFF UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA TO THE BIORETENTION AREA HAS RECEIVED FINAL STABILIZATION. PROVIDE TEMPORARY BYPASS FOR STORMWATER RUNOFF.
2. THE SOIL SHOULD BE FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER, BRUSH OR SEEDS FROM NOXIOUS WEEDS. PLACEMENT OF THE SOIL MEDIA SHOULD BE IN LIFTS OF 12" TO 18", LOOSELY COMPACTED BY TAMPING LIGHTLY WITH A DOZER OR BACKHOE BUCKET. SEE TABLE BELOW FOR PLANTING SOIL CHARACTERISTICS.
3. THE NON-WOVEN FILTER FABRIC SHALL BE MIRAFI 180-N, AMOCO 4552, WEBTEC N70, GEOLON N70, CARTHAGE FX-80S OR APPROVED EQUIVALENT. WHEN OVERLAPS ARE REQUIRED BETWEEN ROLLS, THE UPHILL ROLL SHOULD OVERLAP A MINIMUM 2' OVER THE DOWNHILL ROLL IN ORDER TO PROVIDE A SHINGLE EFFECT.
4. THE MULCH LAYER SHALL BE STANDARD LANDSCAPE STYLE, SINGLE OR DOUBLE, SHREDDED HARDWOOD MULCH OR CHIPS. THE MULCH LAYER SHALL BE WELL AGED (STOCKPILED OR STORED FOR AT LEAST 12 MONTHS), UNIFORM IN COLOR, AND FREE OF OTHER MATERIALS, SUCH AS WEED SEEDS, ROOTS, ETC. THE MULCH SHALL BE APPLIED TO A MAXIMUM DEPTH OF THREE INCHES. GRASS CLIPPINGS SHALL NOT BE USED AS A MULCH MATERIAL.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR SOIL MEDIA SHOWING THE USDA SOIL CLASSIFICATION AND GRADATION. FILTER FABRIC, MULCH AND DRAINAGE STONE.
6. A PERCOLATION TEST WITNESSED BY THE ENGINEER SHALL BE COMPLETED UPON FINAL CONSTRUCTION OF THE BIORETENTION PRACTICE TO CONFIRM PERFORMANCE.
7. ALL BIORETENTION PLANTINGS AND MATERIALS INSTALLED SHALL HAVE A SPECIAL WARRANTY FOR A PERIOD OF ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION, AGAINST DEFECTS INCLUDING DEATH AND UNSATSFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM INCIDENTS THAT ARE BEYOND THE CONTRACTOR'S CONTROL. NOTE THAT ANY PLANTINGS OR MATERIALS INSTALLED AFTER THE DATE OF SUBSTANTIAL COMPLETION SHALL BE NOTED AND THEIR RESPECTIVE ONE YEAR WARRANTIES SHALL COMMENCE TO RUN ON THE DAY OF THEIR INSTALLATION.

PARAMETER	VALUE
PH RANGE	5.5 TO 7.5
ORGANIC MATTER	3% TO 5%
SOIL FINES	8% TO 12%
SAND	85% TO 88%
PHOSPHORUS (P ₂ O ₅)	10 TO 30 PPM
CATIONIC EXCHANGE CAPACITY (CEC)	>10 meq/100 g



9 DETAIL - OUTLET CONTROL STRUCTURE

CIVIL ENGINEER

GPI Engineering
Design
Planning
Construction Management

518.453.9431 GPINET.COM

Greeman-Pedersen, Inc.
80 Wolf Road, Suite 300
Albany, NY 12205

STATE OF NEW YORK
GREENMAN-PEDERSEN, INC.
LICENSED PROFESSIONAL ENGINEER
No. 137

CONSULTANT:

NOT FOR CONSTRUCTION
THIS DRAWING PROVIDED ONLY FOR
REVIEW AND APPROVAL

- 28 APR 23 SUBMISSION TO TOWN
 - 15 FEB 23 SUBMISSION TO TOWN
 - 11 NOV 22 SUBMISSION TO TOWN
 - 20 OCT 22 GPI CONCEPT FOR REVIEW
 - 16 SEP 22 CONCEPT FOR REVIEW
- MARK: DATE: DESCRIPTION:

OWNER:
JW CONGREGATION SUPPORT, INC.
1005 RED MILLS ROAD
WALKKILL, NY 12589-3263

PROJECT TITLE:
NEUBURGH KINGDOM HALL OF JEHOVAH'S WITNESSES
33 OLD LITTLE BRITAIN RD
NEUBURGH, NY 12550

SHEET TITLE:
SITE DETAILS

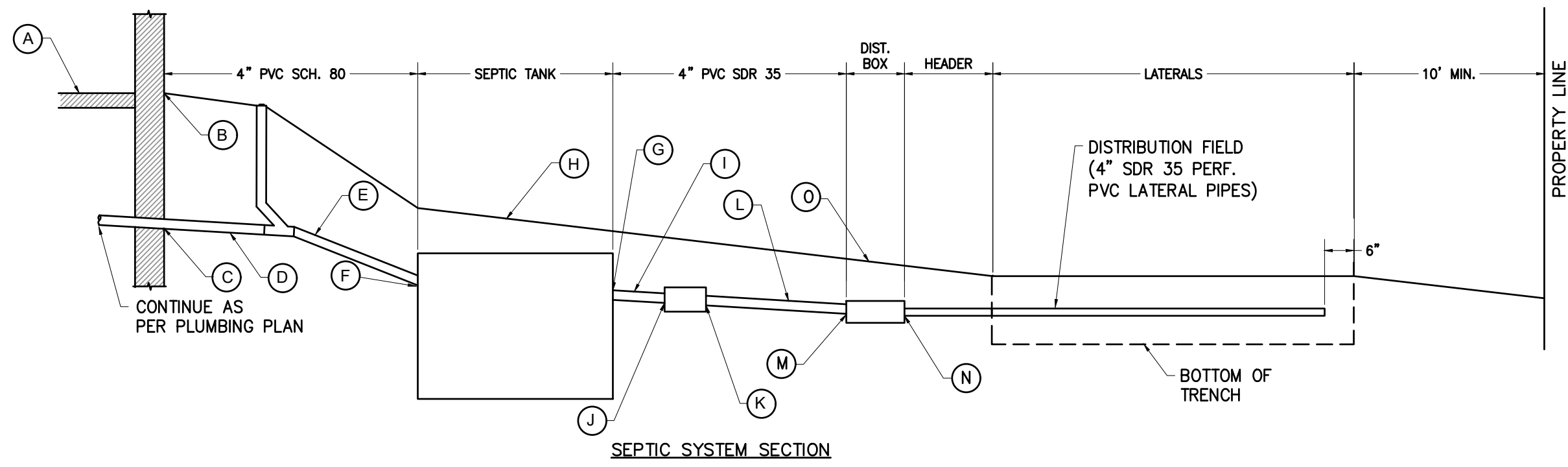
PROJECT No. **37147**

SHEET No. **C-503**

IMAGE: XREF:
IMAGE: XREF:
IMAGE: XREF:
IMAGE: XREF:
IMAGE: XREF:

XREF: XREF:
XREF: XREF:
XREF: XREF:
XREF: XREF:
XREF: XREF:

PLOT DATE: 28 Apr 23 PLOTTED BY: Andy LoPolt V
DIMSCALE: 1:0000 DSGN\DRFT:
FILE PATH: E:\2022\2200152.00 Neuburgh_Civil_Design_JWCS\CADD\01_CIVIL\USA37035_C-503_Site_Details.dwg

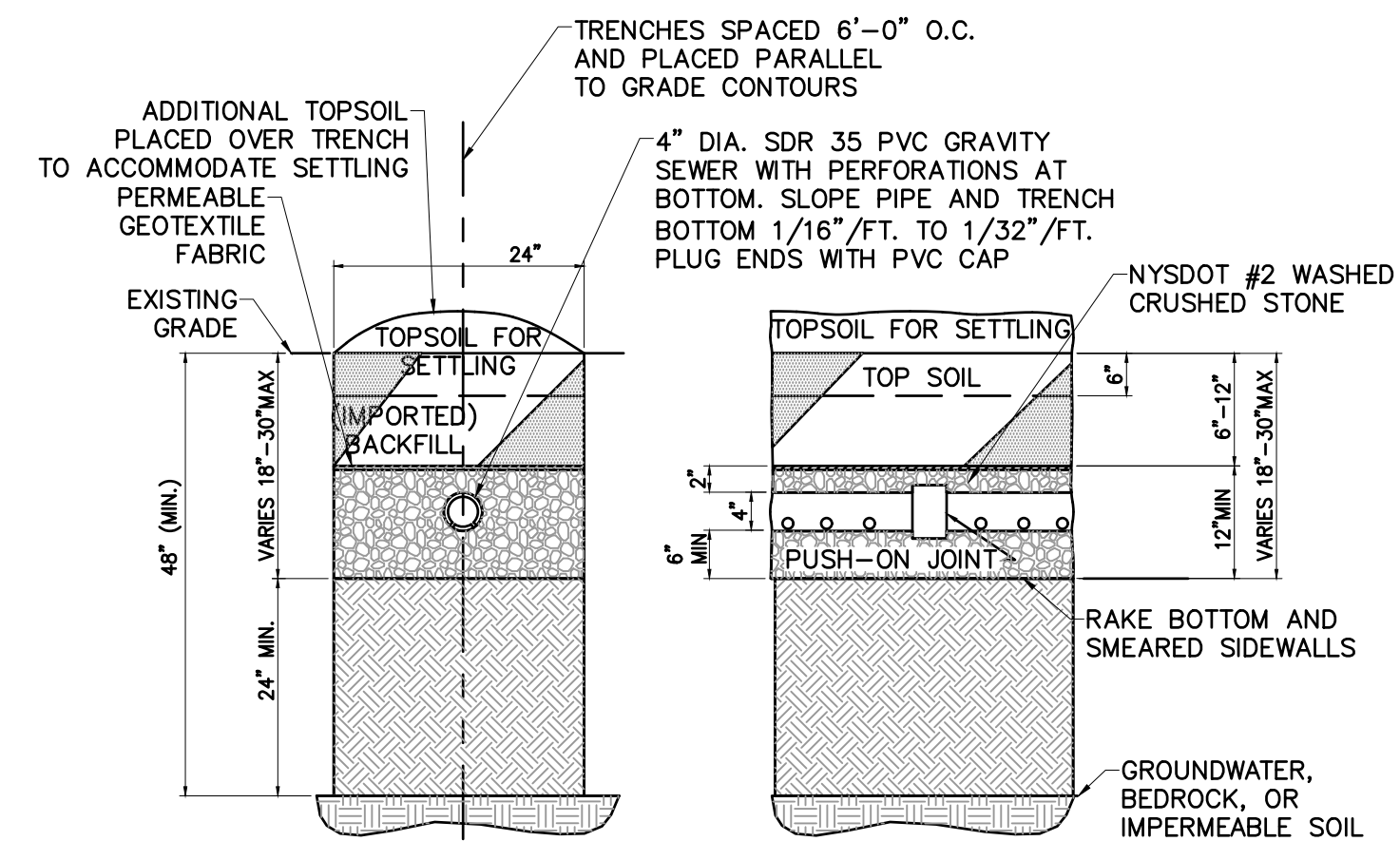


DESIGN CALCULATIONS:

NOTE: SEE SITE PLANS FOR SYSTEM LAYOUT/LOCATION.
 DESIGN FLOW = 660 GPD (BASED ON 220 SEATS @ 3 GPD/SEAT)
 PERCOLATION RATE = 18 MINUTES
 APPLICATION RATE = 0.7 GPD/SF (RATE DETERMINED FROM THE "DESIGN STANDARDS FOR WASTEWATER TREATMENT WORKS TABLE 10 (NYSDEC) FOR PERCOLATION RATE OF 18 MINUTES PER INCH."
 THREE SECTION DESIGN: 50% OF DESIGN FLOW PER SECTION = 660 GPD/2 = 330 GPD
 REQUIRED ABSORPTION TRENCH AREA = 330 GPD/0.7 GPD/SF = ±470 SF
 REQUIRED LATERAL LENGTH = 470 SF/2 = ±235 LF (MIN)
 LATERALS PROVIDED PER DESIGN = (3) LATERALS AT 80 FT EACH = 240 LF
 REQUIRED SEPTIC TANK SIZE = 24/12 * 660 = 1,320
 SIZE PROVIDED PER DESIGN = 1,500 GALLONS

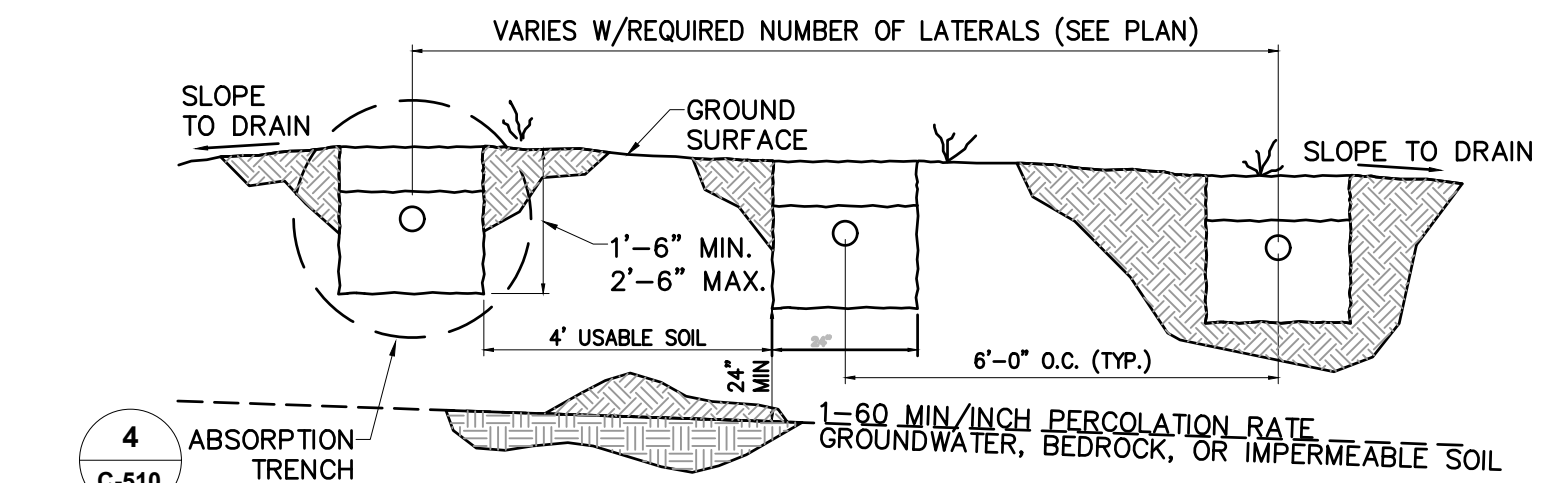
ITEM - DESCRIPTION	PROPOSED SEPTIC SYSTEM DESIGN INFORMATION		
A) PROPOSED F.F. ELEVATION	316.40		
B) GROUND ELEVATION @ INV. OUT OF BLDG	315.90		
C) INV. OUT OF BUILDING	311.50		
D) LENGTH AND SLOPE (TO CLEANOUT)	5 LF @ 1.0%		
E) LENGTH AND SLOPE (AFTER CLEANOUT)	20 LF @ 3.0%		
F) INV. IN @ SEPTIC TANK	310.85		
G) INV. OUT @ SEPTIC TANK	310.60		
H) GROUND ELEVATION ABOVE SEPTIC TANK	313.00		
I) LENGTH AND SLOPE (TANK TO VALVE BOX)	5 LF @ 3.0%		
J) INV. IN VALVE BOX	310.45		
K) INV. OUT VALVE BOX	310.35		
	FIELD 1	FIELD 2	FIELD 3
L) LENGTH AND SLOPE (TANK TO DBOX)	26 LF @ 4.2%	45 LF @ 4.7%	64 LF @ 4.8%
M) INV. IN D-BOX	309.25	308.25	307.25
N) INV. OUT D-BOX	309.00	308.00	307.00
O) GROUND ELEVATION ABOVE D-BOX	311.00	310.00	309.00

1 SEPTIC SYSTEM CROSS SECTION



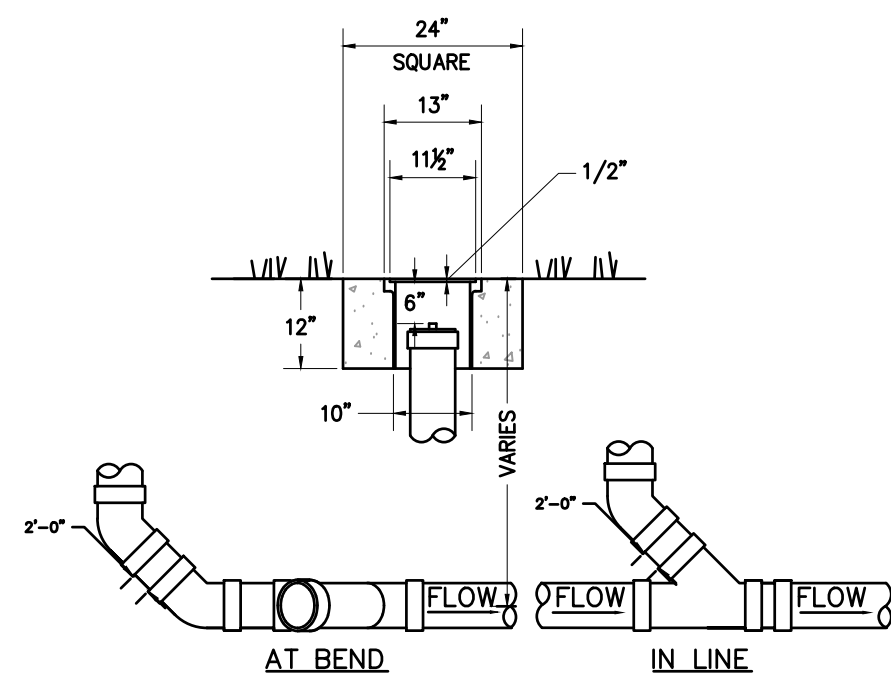
NOTES:
 1. IMPORTED BACKFILL SHALL BE TOPSOIL OR NATURAL RUN OF BANK SAND OR GRAVEL FREE OF ORGANIC MATERIAL AND ELONGATED PARTICLE AND HAVE A MAX PARTICLE SIZE OF 3/4".

2 ABSORPTION TRENCH DETAIL



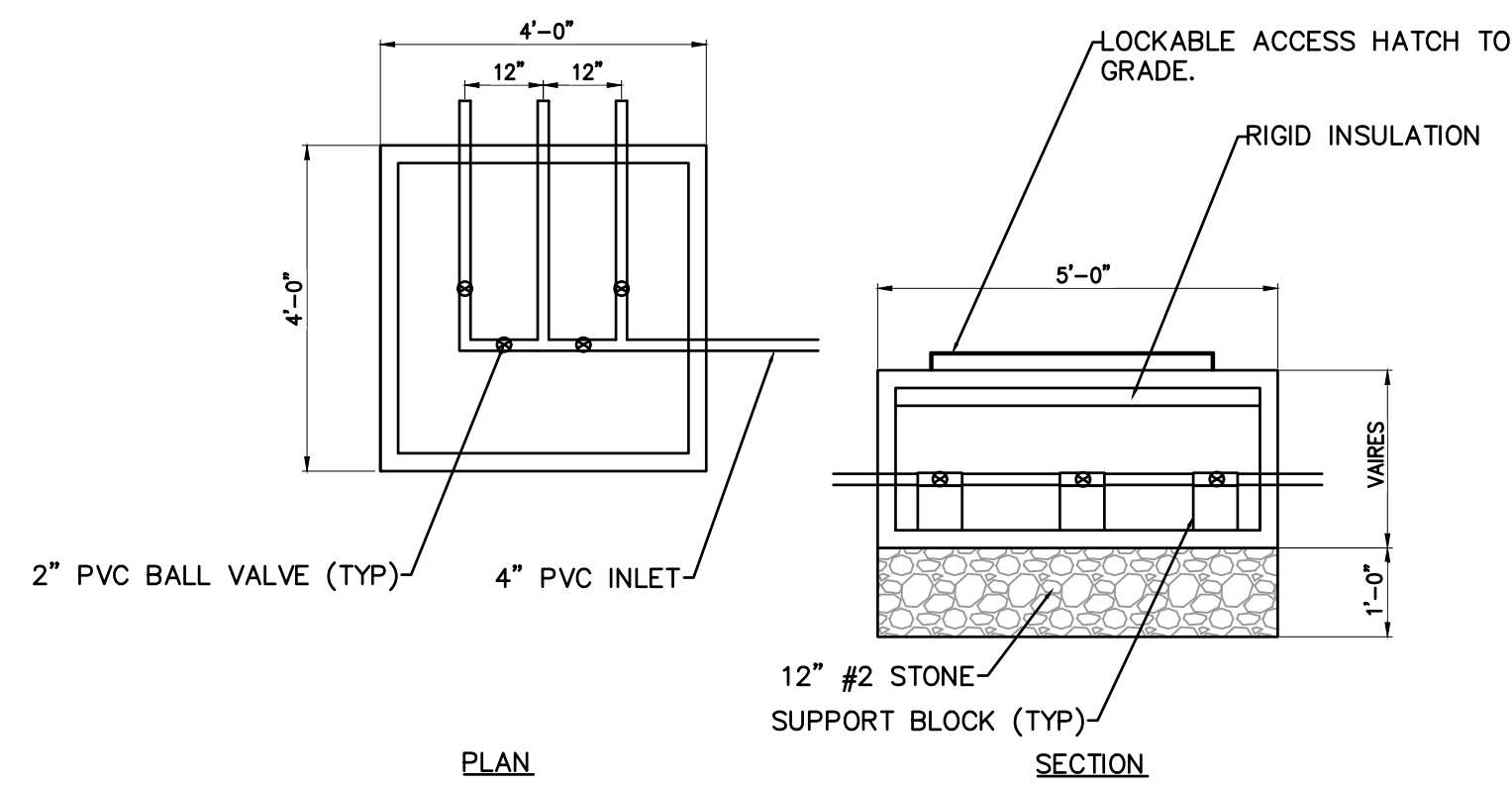
NOTES:
 1. ALL LATERAL ENDS MUST BE CAPPED.
 2. THE MAXIMUM LATERAL SLOPE IS 1/16" PER FOOT.

3 ABSORPTION TRENCH SECTION LAYOUT

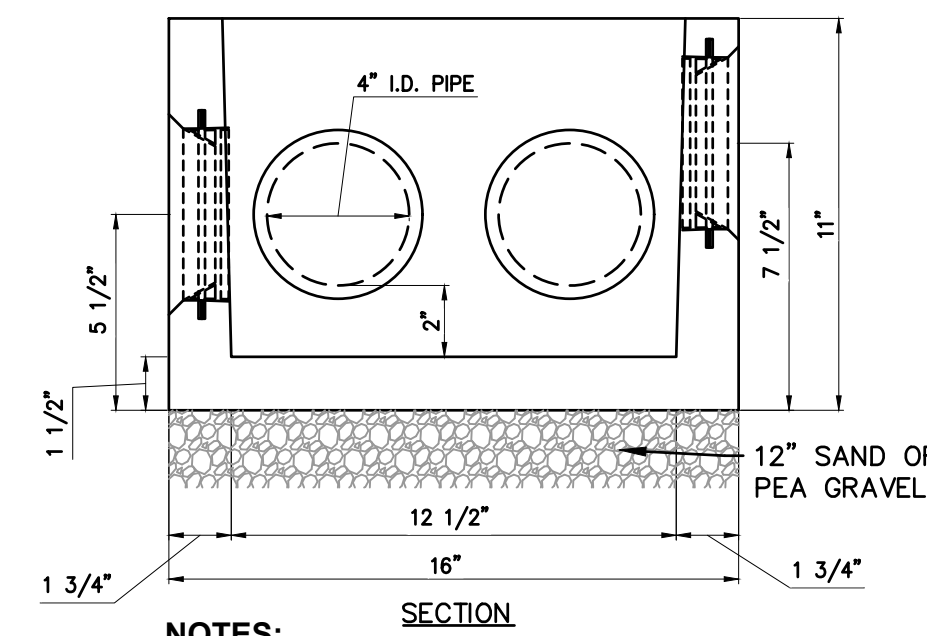
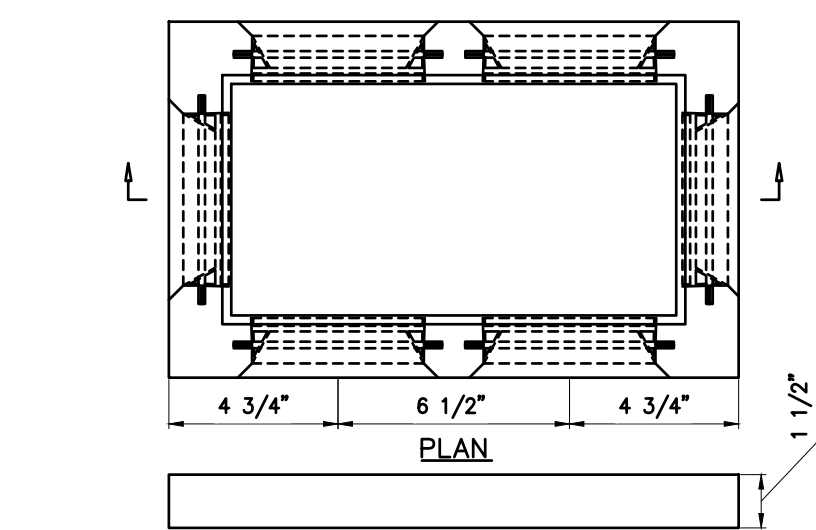


NOTES:
 1. SEWER PIPE FITTINGS TO BE ASTM D-3033 OR D-3034 SDR-26.
 2. TO BE USED FOR GRAVITY PORTION OF SANITARY SYSTEM AS WELL AS THE STORM ROOF DRAINAGE SYSTEM.

4 SANITARY SEWER CLEANOUT

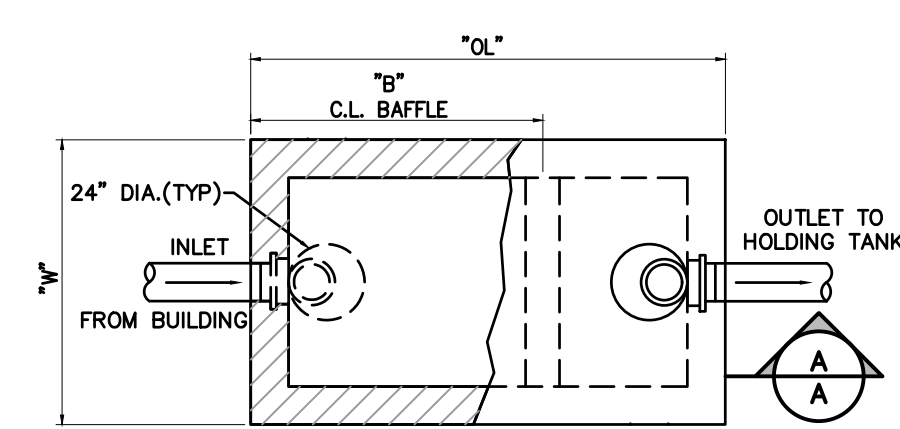
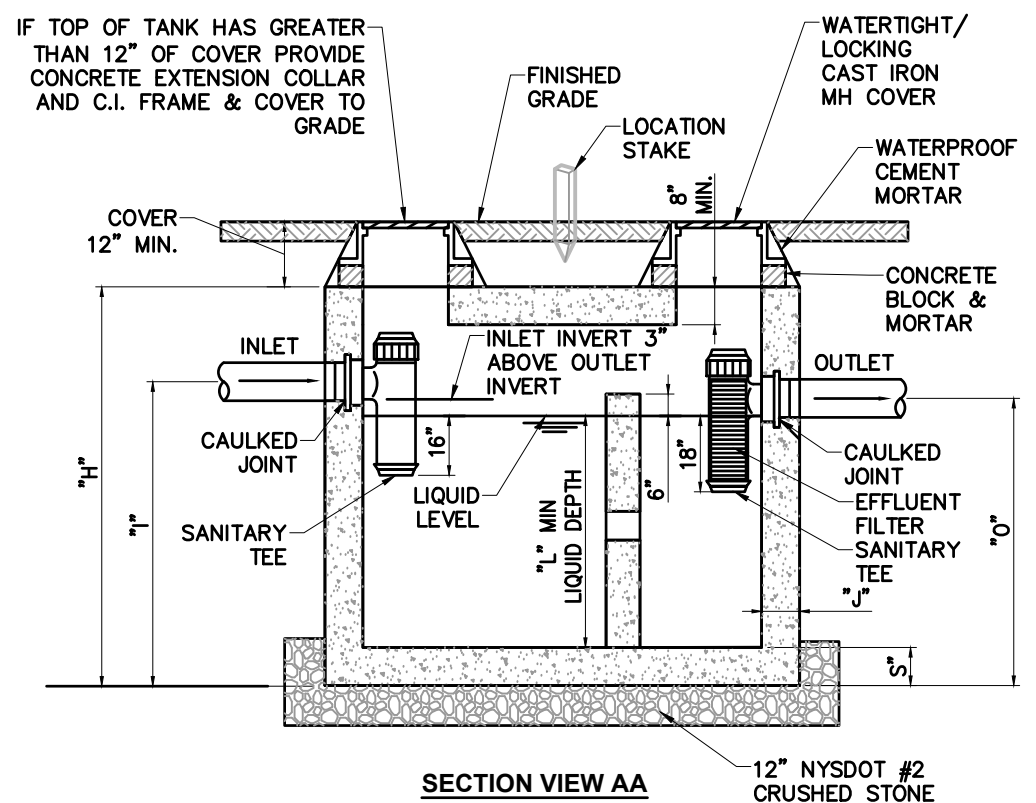


5 THREE BED VALVE BOX



NOTES:
 1. BY KISTNER CONCRETE PRODUCTS INC. OR APPROVED EQUAL.
 2. MINIMUM CONCRETE STRENGTH: 4500 PSI
 3. TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS

6 5 OUTLET DISTRIBUTION BOX



NOTE:
 1. SEPTIC TANKS SHALL BE AS MANUFACTURED BY THE FORT MILLER CO. OR APPROVED EQUIVALENT.
 2. DIMENSIONS SHOWN ARE PER STRUCTURES MANUFACTURED BY FORT MILLER CO.

SIZE GALLONS	OVERALL HEIGHT "H"	OVERALL WIDTH "W"	OVERALL LENGTH "OL"	SLAB THICKNESS "S"	WALL THICKNESS "J"	LIQUID LEVEL "L"	INLET HEIGHT "I"	OUTLET HEIGHT "O"	BAFFLE "B"
1500	6'-3"	6'-0"	11'-0"	6"	6"	4'-1"	5'-1"	4'-10"	7'-6"

7 CONCRETE SEPTIC TANK



CONSULTANT:

NOT FOR CONSTRUCTION
 THIS DRAWING PROVIDED ONLY FOR REVIEW AND APPROVAL

- 28 APR 23 SUBMISSION TO TOWN
- 15 FEB 23 SUBMISSION TO TOWN
- 11 NOV 22 SUBMISSION TO TOWN
- 20 OCT 22 GPI CONCEPT FOR REVIEW
- 16 SEP 22 CONCEPT FOR REVIEW

OWNER:
JW CONGREGATION SUPPORT, INC.
 1005 RED MILLS ROAD
 WALLKILL, NY 12589-3283

PROJECT TITLE:
NEWBURGH KINGDOM HALL OF JEHOVAH'S WITNESSES
 33 OLD LITTLE BRITAIN RD
 NEWBURGH, NY 12550

SHEET TITLE:
SITE DETAILS & NOTES

PROJECT No. **37147**

SHEET No. **C-504**

IMAGE: ###
 XREF: ###
 IMAGE: ###
 XREF: ###
 IMAGE: ###
 XREF: ###
 IMAGE: ###
 XREF: ###

IMAGE: ###
 XREF: ###
 IMAGE: ###
 XREF: ###
 IMAGE: ###
 XREF: ###
 IMAGE: ###
 XREF: ###

NOTE: ###
 XREF: ###
 NOTE: ###
 XREF: ###
 NOTE: ###
 XREF: ###

PLOT DATE: 28 Apr 23 PLOTTED BY: Andy LaPort V
 DMSCALE: 12.0000
 FILE PATH: E:\2022\2200152.00 Newburgh Civil Design -WCS\CADD\01 CIVIL\USA37035_C-504_Site_Details.dwg



CONSULTANT:

NOT FOR CONSTRUCTION

THIS DRAWING PROVIDED ONLY FOR **REVIEW AND APPROVAL**

28 APR 23	SUBMISSION TO TOWN
15 FEB 23	SUBMISSION TO TOWN
11 NOV 22	SUBMISSION TO TOWN
20 OCT 22	GPI CONCEPT FOR REVIEW
16 SEP 22	CONCEPT FOR REVIEW
MARK:	DATE: DESCRIPTION:

OWNER:
JW CONGREGATION SUPPORT, INC.
 1005 RED MILLS ROAD
 WALLKILL, NY 12589-3283

PROJECT TITLE:
NEWBURGH KINGDOM HALL OF JEHOVAH'S WITNESSES
 33 OLD LITTLE BRITAIN RD
 NEWBURGH, NY 12550

SHEET TITLE:
SITE DETAILS & NOTES

PROJECT No. **37147**

SHEET No. **C-505**

TOWN OF NEWBURGH WATER SYSTEM NOTES:

- CONSTRUCTION OF POTABLE WATER UTILITIES AND CONNECTION TO THE TOWN OF NEWBURGH WATER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEWBURGH WATER DEPARTMENT. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE NYSDOH AND THE TOWN OF NEWBURGH.
- ALL WATER SERVICE LINES FOUR (4) INCHES AND LARGER IN DIAMETER SHALL BE CEMENT LINED CLASS 52 DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C151/A21.51 FOR DUCTILE IRON PIPE, LATEST REVISION. JOINTS SHALL BE EITHER PUSH-ON OR MECHANICAL JOINT AS REQUIRED.
- THRUST RESTRAINT OF THE PIPE SHALL BE THROUGH THE USE OF JOINT RESTRAINT. THRUST BLOCKS ARE NOT ACCEPTABLE. JOINT RESTRAINT SHALL BE THROUGH THE USE OF MECHANICAL JOINT PIPE WITH RETAINER GLANDS. ALL FITTINGS AND VALVES SHALL ALSO BE INSTALLED WITH RETAINER GLANDS FOR JOINT RESTRAINT. RETAINER GLANDS SHALL BE EBBA IRON MEGALUG SERIES 1100 OR APPROVED EQUAL. THE USE OF A MANUFACTURED RESTRAINED JOINT PIPE IS ACCEPTABLE WITH PRIOR APPROVAL OF THE WATER DEPARTMENT.
- ALL FITTINGS SHALL BE CAST IRON OR DUCTILE IRON, MECHANICAL JOINT, CLASS 250 AND CONFORM TO ANSI/AWWA C110/A21.10 FOR DUCTILE AND GRAY IRON FITTINGS OR ANSI/AWWA C153/A21.53 FOR DUCTILE IRON COMPACT FITTINGS, LATEST REVISION.
- ALL VALVES 4 TO 12 INCHES SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSI/AWWA C509 SUCH AS MUELLER MODEL A-2360-23 OR APPROVED EQUAL. ALL GATE VALVES SHALL OPEN LEFT (COUNTERCLOCKWISE).
- TAPPING SLEEVE SHALL BE MECHANICAL JOINT SUCH AS MUELLER H-615 OR EQUAL. TAPPING VALVES 4 TO 12 INCHES SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSI/AWWA C509 SUCH AS MUELLER MODEL T-2360-19 OR APPROVED EQUAL. ALL TAPPING SLEEVES AND VALVES SHALL BE TESTED TO 150 PSI MINIMUM; TESTING OF THE TAPPING SLEEVE AND VALVE MUST BE WITNESSED AND ACCEPTED BY THE TOWN OF NEWBURGH WATER DEPARTMENT PRIOR TO CUTTING INTO THE PIPE
- ALL HYDRANTS SHALL BE CLOW-EDDY F-2640 CONFORMING TO AWWA STANDARD C- 502, LATEST REVISION. ALL HYDRANTS SHALL INCLUDE A 5 1/4 INCH MAIN VALVE OPENING, TWO 2 1/2 INCH DIAMETER NPT HOSE NOZZLES, ONE 4 INCH NPT STEAMER NOZZLE, A 6 INCH DIAMETER INLET CONNECTION AND A 1 1/2 INCH PENTAGON OPERATING NUT. ALL HYDRANTS SHALL OPEN LEFT (COUNTER-CLOCKWISE). HYDRANTS ON MAINS TO BE DEDICATED TO THE TOWN SHALL BE EQUIPMENT YELLOW. HYDRANTS LOCATED ON PRIVATE PROPERTY SHALL BE RED.
- ALL WATER SERVICE LINES TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING. CORPORATION STOPS SHALL BE MUELLER H-15020N FOR 3/4 AND 1 INCH, MUELLER H-15000N OR B-25000N FOR 1 1/2 AND 2 INCH SIZES. CURB VALVES SHALL BE MUELLER H-1502-2N FOR 3/4 AND 1 INCH AND MUELLER B-25204N FOR 1 1/2 AND 2 INCH SIZES. CURB BOXES SHALL BE MUELLER H-10314N FOR 3/4 AND 1 INCH AND MUELLER H-10310N FOR 1 1/2 AND 2 INCH SIZES.
- ALL PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEWBURGH WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT.
- THE WATER MAIN SHALL BE TESTED, DISINFECTED AND FLUSHED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING, DISINFECTION AND FLUSHING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT. PRIOR TO PUTTING THE WATER MAIN IN SERVICE SATISFACTORY SANITARY RESULTS FROM A CERTIFIED LAB MUST BE SUBMITTED TO THE TOWN OF NEWBURGH WATER DEPARTMENT. THE TEST SAMPLES MUST BE COLLECTED BY A REPRESENTATIVE OF THE TESTING LABORATORY AND WITNESSED BY THE WATER DEPARTMENT.
- THE FINAL LAYOUT OF THE PROPOSED WATER AND/OR SEWER CONNECTION, INCLUDING ALL MATERIALS, SIZE AND LOCATION OF SERVICE AND ALL APPURTENANCES, IS SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWN OF NEWBURGH WATER AND/OR SEWER DEPARTMENT. NO PERMITS SHALL BE ISSUED FOR A WATER AND/OR SEWER CONNECTION UNTIL A FINAL LAYOUT IS APPROVED BY THE RESPECTIVE DEPARTMENT.

TESTING GRAVITY SEWER SYSTEM:

- CONTRACTOR SHALL INSPECT AND TEST THE INSTALLATIONS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION WHEN WORK IS READY FOR TESTING. AFTER ALL TESTS HAVE BEEN PERFORMED, EVIDENCE OF COMPLIANCE SHALL BE FORWARDED TO OWNER/ENGINEER AND THE AUTHORITY HAVING JURISDICTION PRIOR TO ACCEPTANCE.
- IT SHALL BE DEMONSTRATED BY THE CONTRACTOR TO THE NYSDEC FIELD INSPECTOR AND/OR DESIGN PROFESSIONAL THAT THE TANK IS SEALED, WATERTIGHT AND ACCEPTABLE FOR USE. THIS SHALL REQUIRE AT A MINIMUM, FILLING THE TANK WITH WATER TO OBSERVE IF IN FACT IT IS SEALED, WATERTIGHT AND ACCEPTABLE FOR USE. THE TANK MUST MEET ANY LOCAL TESTING REQUIREMENTS, INCLUDING POSSIBLE ELECTRICAL SAFETY STANDARDS.
- THE CONTRACTOR SHALL TEST AND INSPECT FOR ALIGNMENT AND INFILTRATION AND EXFILTRATION OF ALL SANITARY SEWERS AND RELATED UTILITY STRUCTURES. INFILTRATION OR EXFILTRATION OF THE SANITARY SEWER SYSTEM SHALL NOT EXCEED 0.80 GAL/INCH OF INTERNAL PIPE DIAMETER PER 1000' OF PIPELINE PER HOUR WITH A MINIMUM HYDROSTATIC HEAD AT THE TOP OF THE PIPE OF 2 FT. OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. WHEN INFILTRATION OR EXFILTRATION OCCURS IN EXCESS OF ALLOWABLE AMOUNT, DEFECTS SHALL BE LOCATED AND REPAIRED.
- INFILTRATION LEAKAGE TESTS SHALL BE RUN ON EACH SINGLE MANHOLE-TO-MANHOLE SECTION, OR REACH, INDEPENDENTLY OF ALL OTHER MANHOLE-TO-MANHOLE SECTIONS. A PIPELINE SECTION UNDER TEST SHALL INCLUDE ALL PIPE AND FITTINGS BETWEEN THE TWO MANHOLES PLUS THE UPSTREAM MANHOLE.
- EACH MANHOLE-TO-MANHOLE SECTION SHALL BE REJECTED OR ACCEPTED BASED ONLY ON RESULTS OF ITS OWN INDEPENDENT SECTION TEST AND NOT ON RESULTS OF ANY ONE TEST RUN SIMULTANEOUSLY OVER MORE THAN ONE CONSECUTIVE MANHOLE-TO-MANHOLE SECTION. THE ONLY EXCEPTION ALLOWED: ACCEPTING SEVERAL CONSECUTIVE MANHOLE-TO-MANHOLE SECTIONS BASED ON ONE COMBINED INFILTRATION TEST INDICATING ZERO INFILTRATION.
- INFILTRATION TESTS SHALL BE MADE BY INSTALLING A FLOW MEASURING DEVICE IN THE DOWNSTREAM MANHOLE OF SECTION BEING TESTED. TEST DURATION SHALL BE 24 HRS. OR FOR SHORTER PERIOD, PROVIDED A STEADY STATE FLOW CONDITION HAS BEEN ACHIEVED IN THE TEST PERIOD, AND RESULTS PROJECTED TO A 24 HR PERIOD.
- EXFILTRATION TESTS SHALL BE RUN ON EACH SINGLE MANHOLE-TO-MANHOLE SECTION, OR REACH, INDEPENDENTLY OF ALL OTHER MANHOLE-TO-MANHOLE SECTIONS. A PIPELINE SECTION UNDER TEST SHALL INCLUDE ALL PIPE AND FITTINGS BETWEEN THE TWO MAN-HOLES PLUS THE UPSTREAM MANHOLE.
- EXFILTRATION TESTS SHALL BE MADE BY MEASURING THE DROP IN WATER ELEVATION IN THE UPSTREAM MANHOLE 24 HRS AFTER INITIAL WATER LEVEL IS RECORDED. INITIAL WATER LEVEL IN UPSTREAM MANHOLE SHALL BE 2 FEET HIGHER THAN EITHER THE TOP OF PIPE OR GROUNDWATER ELEVATION AT THE DOWNSTREAM MANHOLE. ANY MANHOLE-TO-MANHOLE SECTION UNDERGOING AN EXFILTRATION TEST MUST HAVE THE NEXT ADJACENT SECTIONS, BOTH UPSTREAM AND DOWNSTREAM, DRY AND NOT UNDER TEST. THIS PROCEDURE MINIMIZES HYDROSTATIC PRESSURE PLACED ON STOPPERS, PLUGS, AND END CAPS.
- LOW PRESSURE AIR TESTING MAY BE ALLOWED IN LIEU OF EXFILTRATION TESTS ONLY WHEN SO ALLOWED, TEST SHALL BE PERFORMED UNDER DIRECTION OF ENGINEER ACCORDING TO ASTM F1417. LOW PRESSURE AIR TEST IS A COMPARISON OF THE MEASURED TIME NECESSARY FOR ONE (1) PSIG PRESSURE DROP TO OCCUR, IF AT ALL, WITH MINIMUM ALLOWABLE TIME FOR THAT PRESSURE DROP TO OCCUR DETERMINED BY METHODS INDICATED IN ASTM F1417. IF THE ONE (1) PSIG PRESSURE DROP OCCURS FASTER THAN ALLOWABLE TIME, SECTION IS UNACCEPTABLE.
- AN AIR TEST SHALL NOT BE RUN UNTIL SECTION OF LINE TO BE TESTED HAS BEEN CLEANED OF ALL FOREIGN MATERIAL BY FLUSHING AND HAS BEEN VISUALLY INSPECTED AND APPROVED BY THE ENGINEER. CERTAIN PIPE MATERIALS PRODUCE MORE CONSISTENT RESULTS WHEN INTERIOR OF PIPE IS WETTED PRIOR TO TESTING.
- WHERE AIR-TESTING IS TO BE USED FOR LINE ACCEPTANCE, CORROBORATIVE HYDROSTATIC TESTING SHALL BE PERFORMED ON SEWER INSTALLATION OF THE SAME PIPE SIZE, MATERIAL AND CONDITIONS OF INSTALLATION. SEWER SECTIONS WHICH INDICATE RATES OF AIR LOSS PER UNIT OF SURFACE AREA WHICH MOST NEARLY APPROXIMATE RATE FOR PIPELINE ACCEPTANCE SHOULD BE SELECTED FOR CORROBORATIVE TESTS. AT LEAST 3 SECTIONS ARE TO BE SO TESTED. THE PURPOSE OF THESE CORROBORATIVE TESTS IS TO PERMIT A REASONABLE ASSUMPTION THAT, IF THESE 3 TEST SECTIONS MEET THE HYDROSTATIC TEST, THE BALANCE OF PROJECT ALSO MEETS OR EXCEEDS THESE REQUIREMENTS. IF AIR TEST IS NOT SUPPORTED BY ACCEPTABLE CORROBORATIVE HYDROSTATIC TESTS, COMPLETE HYDRO-STATIC TESTING OF SEWER LINES SHALL BE REQUIRED.
- WHERE FLEXIBLE PIPE IS USED, CONTRACTOR SHALL TEST ALL MAINLINE PIPE FOR MAXIMUM ALLOWABLE DEFLECTION OF 5% OF OUTSIDE DIAMETER. DEFLECTION TESTS SHALL BE PERFORMED USING A CIRCULAR STEEL BALL ON SLED 1/16-INCH IN DIAMETER SMALLER THAN ALLOWABLE INSIDE DIAMETER OF FLEXIBLE PIPE WHEN DEFLECTED A MAXIMUM OF 5% OF OUTSIDE DIAMETER. DEFLECTION TESTING OF ANY PIPE SHALL BE DONE NO SOONER THAN 30 DAYS AFTER DATE OF INSTALLATION OF PIPE SECTION UNLESS WRITTEN EXCEPTION.
- SEWERS SHALL BE LAID WITH STRAIGHT ALIGNMENT BETWEEN MANHOLES. STRAIGHT ALIGNMENT SHALL BE CHECKED EITHER USING A LASER BEAM OR LAMPING. TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- MANHOLES, WHICH CANNOT BE PROPERLY AIR TESTED, SHOULD BE VISUALLY INSPECTED AND LEAKAGE-TESTED USING INTERNAL OR EXTERNAL HYDROSTATIC PRESSURE. LEAKAGE TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- IN AREAS WHERE CONVENTIONAL TESTING IS IMPRACTICAL (I.E. AREAS DESIGNATED BY ENGINEER WHERE EXISTING SERVICES ARE TIED INTO NEW LINE IMMEDIATELY AND ANY BLOCKAGE COULD RESULT IN HEALTH PROBLEMS) NO LINES SHALL BE BACKFILLED UNTIL EACH PIPE SECTION AND CONNECTION IS INSPECTED AND APPROVED.
- WHERE SEWERS ARE CONSTRUCTED OF PRESSURE-RATED PIPE AND INSTALLED WITH LESS THAN 18 INCHES VERTICAL SEPARATION FROM EXISTING OR PROPOSED WATER MAINS, SEWERS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI TO ASSURE WATER TIGHTNESS. HYDROSTATIC ACCEPTANCE TESTS SHALL BE CONDUCTED AS SPECIFIED FOR TESTING WATER MAINS, EXCEPT THAT TESTING MAY BE PERFORMED WITH THE PIPE SECTION PARTIALLY BACK-FILLED.
- IF THE ALLOWABLE RATE OF INFILTRATION, EXFILTRATION, OR AIR LEAKAGE IS EXCEEDED, THE CONTRACTOR SHALL LOCATE POINTS OF EXCESSIVE LEAKAGE AND SHALL PROMPTLY CORRECT, REPAIR, AND BRING SYSTEM UP TO THE STANDARD. COSTS OF ALL SUCH REPAIRS AND CORRECTIVE MEASURES, INCLUDING COSTS OF REPEATED TESTS, SHALL BE BORN BY CONTRACTOR. THE SEWER LINE SECTION (INCLUDING MANHOLES AND BUILDING SERVICES) UNDER TEST SHALL NOT BE ACCEPTED UNTIL THESE TEST CRITERIA ARE MET.

MATERIALS NOTES:

- ENVELOPE MATERIAL
 - WASHED GRAVEL OR CRUSHED STONE CONSISTING OF DURABLE MATERIAL 3/4 TO 1-1/2 INCHES IN DIA.
- PIPE MATERIALS
 - DISTRIBUTION BOX TO ABSORPTION FIELD: 4 INCH DIA. SOLID P.V.C. SDR35 PIPE WITH GASKETED JOINTS (IN ACCORDANCE WITH ASTM SPEC. 2665) LAID AT A MINIMUM SLOPE OF 1/16 INCH PER 1 FOOT.
 - ABSORPTION FIELDS: PVC PERFORATED - TIGHT JOINT FITTINGS, INSIDE DIAMETER OF 4 INCHES INSTALLED LEVEL.
- DISTRIBUTION BOX
 - CONCRETE FORT MILLER NO. 2 OR EQUAL WITH LIQUID LEVELERS. (SIZE PER PLAN & DETAILS)
- ACCESS EXTENSION
 - 2'-0" I.D. X 4" HIGH, CONCRETE WITH STANDARD LID, FORT MILLER OR EQUAL.
- ENVELOPE COVER
 - UNTREATED BUILDING PAPER (TARPAPER, POLYETHYLENE, ETC. ARE NOT ACCEPTABLE.)

SDS NOTES:

- THERE SHALL BE NO CHANGES ON THIS PLAN IN ADVANCE OF, OR DURING CONSTRUCTION, WITHOUT PRIOR APPROVAL OF THE DESIGN ENGINEER, AND THE NYSDEC.
- THERE SHALL BE NO FURTHER SUBDIVISION OF ANY PARCEL SHOWN ON THIS PLAN WITHOUT PRIOR APPROVAL. THIS MAY WARRANT THE SUBMISSION OF ENGINEERING PLANS AND DOCUMENTS.
- DESIGN, CONSTRUCTION, MATERIAL STANDARDS AND INSPECTION REQUIREMENTS SHALL COMPLY WITH THE LATEST EDITION (S) OF: NEW YORK STATE HEALTH DEPARTMENT PUBLICATION(S). (A) RURAL WATER SUPPLY (B) NYORR PART 75A WASTE TREATMENT/ INDIVIDUAL HOUSEHOLD SYSTEMS.
- NO EXISTING OR APPROVED PROPOSED, WATER SUPPLY AND/OR SEWERAGE FACILITIES OTHER SIGNIFICANT PHYSICAL FEATURES ARE LOCATED WITHIN 200 FEET OF THE PROJECTS LIMITS, EXCEPT AS SHOWN.
- NO VEHICULAR PARKING OR TRAFFIC SHALL BE ALLOWED ON ANY PORTIONS OF THE SEWERAGE SYSTEM.
- INSPECTION OF THE SEWAGE DISPOSAL SYSTEM COMPONENTS SHALL BE CONDUCTED BY THE DESIGN ENGINEER. A) PRIOR TO SITE DEVELOPMENT. B) AFTER PRELIMINARY GRADING C) AFTER PLACEMENT OF FILL MATERIAL BY CONDUCTING A PERCOLATION TEST AND OBSERVING FILL MATERIAL IN PLACE AND GRADED. D) PRIOR TO BACKFILL OF PIPING, TANKS, WELLS, SEALS, ETC. E) AFTER FINAL GRADING.
- LATERALS SHALL BE ORIENTED ON CONTOURS SUCH THAT THE INVERT ELEVATIONS MATCH EXISTING GRADE ELEVATIONS AS MUCH AS POSSIBLE.
- CONTRACTOR SHALL VERIFY GRADES SHOWN DURING PRELIMINARY CONSTRUCTION STAKEOUT.
- PRIOR TO EXCAVATING, CALL DIG SAFELY NEW YORK AT 1-800-962-7962.
- PIPE LINES INTO THE SEPTIC TANK AND DISTRIBUTION BOX SHALL BE GROUTED ON THE INTERIOR AND EXTERIOR OF THE STRUCTURE.

STANDARD NOTES FOR NON-RESIDENTIAL SEWAGE:

THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:

- NEW YORK STATE DESIGN STANDARDS FOR INTERMEDIATE SIZED WASTEWATER TREATMENT SYSTEM", NYSDEC
- "APPENDIX 75-A, WASTE TREATMENT-INDIVIDUAL HOUSEHOLD SYSTEMS, NEW YORK STATE SANITARY CODE."
- RECOMMENDED STANDARDS FOR SEWAGE TREATMENT WORKS, (TEN STATES)."
- RECOMMENDED STANDARDS FOR WATER WORKS, (TEN STATES)."
- NEW YORK STATE DEPARTMENT OF HEALTH AND ORANGE COUNTY ENVIRONMENTAL HEALTH SERVICES DIVISION POLICIES, PROCEDURES AND STANDARDS."
- "ORANGE COUNTY AND NEW YORK STATE SANITARY CODES."
- "NYSDEC SPEDES PERMIT."

THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF SEWAGE DISPOSAL .

UPON COMPLETION OF THE FACILITIES, THE FINISHED WORKS SHALL BE INSPECTED, TESTED, AND CERTIFIED COMPLETE TO THE NYSDEC BY THE NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SUPERVISING CONSTRUCTION. NO PART OF THE FACILITIES SHALL BE PLACED INTO SERVICE UNTIL ACCEPTED BY THE NYSDEC.

IT SHALL BE DEMONSTRATED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL THAT THE TANK IS SEALED, WATERTIGHT AND ACCEPTABLE FOR USE. THIS SHALL REQUIRE, AT A MINIMUM, THE FILLING OF THE TANK WITH WATER TO OBSERVE IF IT IS IN FACT SEALED, WATERTIGHT AND ACCEPTABLE FOR USE. THE DESIGN PROFESSIONAL SHALL CERTIFY TO THE DC EHS THAT THE TANK IS SEALED, WATERTIGHT, AND ACCEPTABLE FOR USE. THE TANK MUST ALSO MEET ANY LOCAL TESTING REQUIREMENTS, INCLUDING POSSIBLE ELECTRICAL AND SAFETY STANDARDS.

APPROVAL OF ANY PLAN(S) OR AMENDMENT THERETO SHALL BE VALID FOR A PERIOD OF FIVE (5) YEARS FROM THE DATE OF APPROVAL. FOLLOWING THE EXPIRATION OF SAID APPROVAL, THE PLAN(S) SHALL BE RE-SUBMITTED TO THE COMMISSIONER OF HEALTH FOR CONSIDERATION FOR RE-APPROVAL. RE-SUBMISSION OR REVISED SUBMISSION OF PLANS AND/OR ASSOCIATED DOCUMENTS SHALL BE SUBJECT TO COMPLIANCE WITH THE TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES IN EFFECT AT THE TIME OF THE RE-SUBMISSION.

ALL ONSITE WASTEWATER TREATMENT SYSTEM EXISTING OR APPROVED WITHIN 300 FEET OF THE PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM ARE SHOWN ON THIS PLAN, ALONG WITH ANY OTHER ENVIRONMENTAL HAZARDS IN THE AREA THAT MAY AFFECT THE DESIGN AND FUNCTIONAL ABILITY OF THE ONSITE WASTEWATER TREATMENT SYSTEM.

ALL BUILDINGS SHALL BE CONSTRUCTED AT AN ELEVATION HIGH ENOUGH TO ENSURE GRAVITY FLOW TO THE ONSITE WATER TREATMENT SYSTEM.

NO CELLAR, FOOTING, FLOOR, GARAGE, COOLER OR ROOF DRAINS AND NO SOFTENER BACKWASH SHALL BE DISCHARGED INTO THE ONSITE WASTEWATER TREATMENT SYSTEM.

THERE SHALL BE NO VEHICULAR TRAFFIC OVER THE SEWAGE DISPOSAL SYSTEM PRIOR TO CONSTRUCTION, THE AREA OF THE SYSTEM SHALL BE STAKED OUT AND FENCED OFF.

SEWAGE DISPOSAL SYSTEMS SHALL NOT BE INSTALLED IN WET OR FROZEN SOIL.

ALL REQUIRED EROSION & SEDIMENT CONTROL AND STORM WATER POLLUTION PREVENTION WATER QUALITY & QUANTITY CONTROL STRUCTURES, PERMANENT AND TEMPORARY, ARE SHOWN ON THE PLANS.

THE NYSDEC SHALL BE NOTIFIED PRIOR TO THE BACKFILLING OF ANY COMPLETED SDS SO THAT A FINAL INSPECTION MAY BE PERFORMED.

THE NYSDEC SHALL BE NOTIFIED SIXTY DAYS PRIOR TO ANY CHANGE IN USE; USE CHANGES MAY REQUIRE REAPPROVAL BY THE NYSDEC.

ALL PROPOSED SERVICE LINES ON THIS PLAN ARE ACCESSIBLE FOR INSTALLATION AND PLACEMENT.

NO BUILDINGS SHALL BE OCCUPIED AND THE NEW WATER SYSTEM SHALL NOT BE PLACED INTO SERVICE, UNTIL A "COMPLETED WORKS APPROVAL" IS ISSUED UNDER SECTION 5-1.22(d) OF PART 5 OF THE NEW YORK STATE SANITARY CODE (10NYCRR5)

IMAGE: ### XREF: ### IMAGE: ### XREF: ### IMAGE: ### XREF: ### IMAGE: ### XREF: ### IMAGE: ### XREF: ###

PLOT DATE: 28 Apr 23 PLOTTED BY: Andy LaPoint V
 DMSCALE: 1:2,000 DSGN\DRFT:
 FILE PATH: E:\2022\2200152.00 Newburgh_Civil Design\WCS\CADD\01 CIVIL\USA\37035_C-505_Site_Details.dwg