	STRUCTURE NAME	GENERAL USE/OCCUPANCY	EQUIPMENT SUPPORT	NORMALLY OCCUPIED	DIMENSIONS OF STRUCTURE (L x W x H) OR VESSEL SIZE (DIAMETER x STRAIGHT SIDE)	NUMBER OF STORIES
1	RAIL CAR DUMP (BUILDING)	H-2	–	N	128′ X 78′ X 45′	1
2	TRUCK DUMP. PIT (BUILDING)	–	–	N	–	
4	RAILCAR WEIGH SCALE	–	–	N	–	
5	BUCKET ELEVATOR	–	–	N	–	
6	GRAIN STORAGE	H-2		N	78′# X 78′ S.S. (3x	
7	DEHULLING / MILLING (BUILDING)	H-2	–	N	158′ X 88′ X 75′	1
8	STORMWATER DETENTION POND	–	–	N	–	
10	LIQUEFACTION	F-1		N	13′# X 54′ S.S. (2x	
11	CAUSTIC STORAGE	H-4		N	25′ X 18′	1
12	FERMENTATION	F-1		N	52′# X 64′ S.S (4x)	1
13	BEER WELL AND ABSORBER	F-1		N	60′# X 60′	
14	DISTILLATION AND DEHYDRATION	H-3		N	160′ X 51′ X 50′	1
15	SHIFT AND BAD BATCH TANKS	–		N	22′# X 32′ S.S. (3x)	
16	ETHANOL TANKS	–		N	45′# X 32′ S.S. (2x	
17	ETHANOL LOAD OUT W/CONTAINMENT (CANOPY)	H-2		N	85′ X 18′	1
18	DENATURANT TANK	–		N	13′# X 30′ S.S.	
19	STILLAGE TANKS	–		N	40′-6″# X 40′ S.S. (2x	
20	CENTRIFUGES	F-1		N	53′ X 118′ X 50′	1

	STRUCTURE NAME	GENERAL USE/OCCUPANCY	EQUIPMENT SUPPORT	NORMALLY OCCUPIED	DIMENSIONS OF STRUCTURE (L x W x H) OR VESSEL SIZE (DIAMETER x STRAIGHT SIDE)	NUMBER OF STORIES
21	EVAPORATORS	F-1		N	96′ X 31′ X 82′	
22	BPM DRYERS	F-1		N	90′ X 134′ X 110′	
23	DRY BPM STORAGE (BUILDING)	H-2	–	N	78′ X 128′ X 45	1
24	WET BPM STORAGE PAD	H-2		N	40′ X 25′	1
25	ENZYME STORAGE (BUILDING)	S-1	–	N	62′ X 82′ X 30′	1
26	CIP	–		N	62′ X 46′	
27	CONTROL ROOM AND LAB (BUILDING)	B	–	Y	COMBINED W/ MAINTENANCE	1
28	RTO ID FAN & STACK	–		N	48′ X 116′	
29	CO2 TREATMENT/COMPRESSION (NOT IN CONTRACT)					
30	TRUCK SCALE (IN)	–		N	–	
31	MASH COOLERS & YEAST PROPAGATORS PAD	F-1		N	60′ X 50′	
32	AIR COMPRESSORS (BUILDING)	U	–	N	COMBINED W/ R.O. BUILDING	1
33	CHILLERS (BUILDING)	U	–	N	COMBINED W/ R.O. BUILDING	1
34	COOLING TOWERS	–		N	90′ X 42′ X 41′	
35	FIRE WATER TANK	U		N	72′# X 30′	1
36	PROCESS WATER TANK	–	–	–	COMBINED W/ FIRE WATER	
37	ADMINISTRATION (BUILDING)	B	–	Y	72′ X 37′ X 20′	2
38					103′ X 78′	1
40	MAINTENANCE SHOP (BUILDING)	F-1	–	Y	98′ X 98′ X 21′	1

	STRUCTURE NAME	GENERAL USE/OCCUPANCY	EQUIPMENT SUPPORT	NORMALLY OCCUPIED	DIMENSIONS OF STRUCTURE (L x W x H) OR VESSEL SIZE (DIAMETER x STRAIGHT SIDE)	NUMBER OF STORIES
41	ELECTRICAL ROOM – GRAIN STORAGE/RECEIVING	F-1	–	N	20′ X 20′ X 18′	1
		–				
43	GUARD HOUSE	B	–	Y	COMBINED W/ ADMINISTRATION	1
45	WET BPM LOAD OUT	–		N	–	
46	DRY BPM LOAD OUT	–	–	N	COMBINED W/ RAIL & TRUCK DUMP	
47	ENZYME RECEIVING	–	–	N	–	
48					44′ X 30′ X 10′	1
49	ELECTRICAL ROOM	F-1	–	N	40′ X 98′ X 10′	1
50	ELECTRICAL ROOM (NORTH)	F-1	–	N	COMBINED W/ R.O. BUILDING	
53	FLARE STACK	–		N	12′# X 20′ TALL	
54	EMERGENCY GATE ACCESS WITH KNOX BOX	–		N	–	
55	SYRUP TANK	–		N	25′# X 50′ S.S.	
56	TRUCK SCALE (OUT)	–		N	–	
57	VEHICLE CHARGING AREA (CANOPY)	F-1		N	10′ X 10′	1
59	FERMENTER WASHING & EVAP. COND. TANK	–		N	19′# X 38′SS, 30′# X 38′SS.	
60	NATURAL GAS REDUCING STATION	–		N	10′ X 10′ X 4′	

	STRUCTURE NAME	GENERAL USE/OCCUPANCY	EQUIPMENT SUPPORT	NORMALLY OCCUPIED	DIMENSIONS OF STRUCTURE (L x W x H) OR VESSEL SIZE (DIAMETER x STRAIGHT SIDE)	NUMBER OF STORIES
61	MASH WIX TANK AND JET COOKER	F-1		N	58′ X 29′	1
62	R.O. BUILDING	F-1	–	N	128′ X 73′ X 25′	1
63	CARDED SECURITY GATE	–	–	N	–	
64	BOILER (FUTURE)	F-1			80′ X 150′ X 30′	1

DC = DUST COLLECTOR

HATCH LEGEND

FIRE LANE AND GRAVEL ACCESS
- 8" 21A STONE
- COMPACTED SUBGRADE

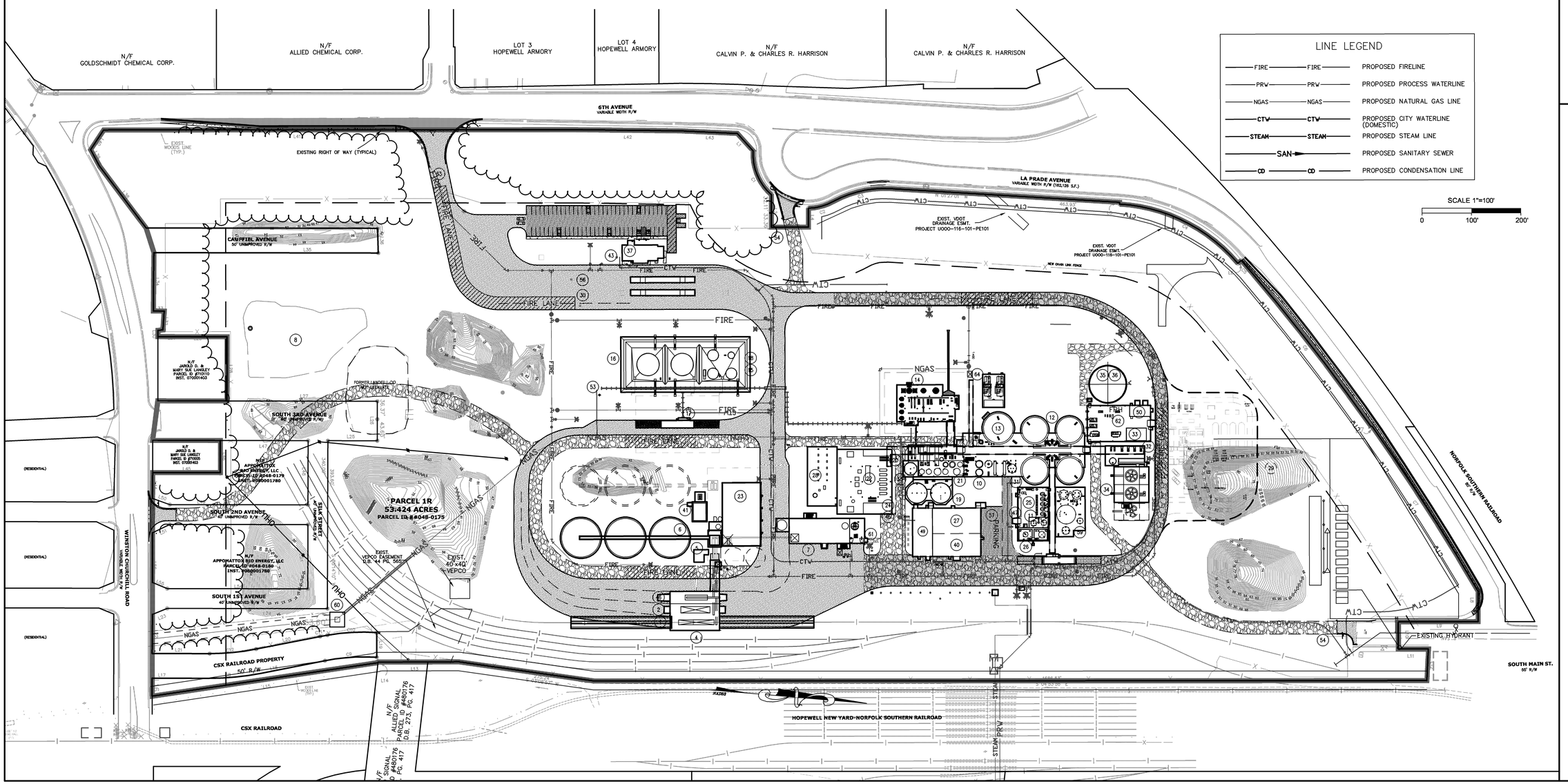
TURN LANE PAVEMENT
- 2" SM 12.5D ASPHALT
- 8" BM-25 ASPHALT
- 8" 21A STONE
- COMPACTED SUBGRADE

ON SITE PAVEMENT
- 3" SM 12.5D ASPHALT
- 6" BM-25 ASPHALT
- 10" 21A STONE
- COMPACTED SUBGRADE

LINE LEGEND

FIRE	PROPOSED FIRELINE
PRW	PROPOSED PROCESS WATERLINE
NGAS	PROPOSED NATURAL GAS LINE
CTW	PROPOSED CITY WATERLINE (DOMESTIC)
STEAM	PROPOSED STEAM LINE
SAN	PROPOSED SANITARY SEWER
CD	PROPOSED CONDENSATION LINE

SCALE 1"=100'
0 100' 200'



THIS DRAWING PREPARED AT THE
TRI-CITIES OFFICE
4260 Crossings Blvd | Prince George, VA 23875
TEL 804.458.8685 FAX 804.751.0798 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

Site Development | Residential | Infrastructure | Technology

DATE	REVISION DESCRIPTION
3/18/09	CITY COMMENTS & OWNER REVISIONS
5/26/09	OWNER REVISIONS
11/20/09	FINAL GRADING, PAVING, SEEDING
06-08-10	GRAVEL ACCESS AT UTILITY BUILDING
06-30-10	

DATE	31 OCT 2008
DRAWN BY	K.HALPAUS
DESIGNED BY	K.HALPAUS
CHECKED BY	D.JOHNSON
SCALE	1" = 100'

COMMONWEALTH OF VIRGINIA
KATHLEEN N HALPAUS
Lic. No. 45244
6/30/10
PROFESSIONAL ENGINEER

TIMMONS GROUP

APPOMATTOX BIO ENERGY FACILITY

CITY OF HOPEWELL, VIRGINIA

OVERALL PLAN OF DEVELOPMENT

JOB NO. 27067

SHEET NO. C0.2

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.