

	A	B	C
1	Value-Engineered PROPOSED ADDENDUM (rev 12/5/2016)	Estimated Cost Savings	Description of Design Concessions
2	OVERALL		
3	1. The design specification occasionally identifies specific manufacturers, products, equipment, etc., ("PRODUCTS"). Those specific PRODUCTS are NOT requirements. Bidders may substitute other PRODUCTS of similar or superior functionality at a comparable or lower cost.		
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5	1.0 STRUCTURAL		
6	1.01 Utilize open web steel joists in lieu of wide flange beams		
7	1.01.01 - Keep mechanical equipment on the roof		Utilizing open web steel joists eliminates future flexibility to add/change/relocate loads supported by the roof steel
8	1.01.02 - Move mechanical equipment to the ground		Utilizing open web steel joists eliminates future flexibility to add/change/relocate loads supported by the roof steel
9	1.02 Change 6" slab on grade to 4" slab on grade in select areas		
10	1.02.01 - Curing cooler, packaging room, & hot product		Increased potential for slab to crack
11	1.02.02 - Breaking & Fabrication & Ingredient storage		Increased potential for slab to crack
12	1.03 Substitute Concrete Ts in lieu of steel		Implication for structural redesign and equipment
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14	2.0 ARCHITECTURAL		
15	2.01 Eliminate storefront penthouse roof		
16	2.02 Eliminate canopies (employee entrance, docks, etc.)		Note: Storefront canopy required by Westport STOD
17	2.03 Eliminate (1) dock position/setup		
18	2.04 Eliminate dock restraint on remaining dock setup		
19	2.05 Eliminate exterior roof access ladder		
20	2.06 Make building single roof height		Additional costs: wall and column materials. Reduced costs: roof expansion joint, atypical steel connections between higher/lower roofs, snow load design between higher/lower roofs (larger steel/footings, etc.)
21	2.07 Reduce amount of concrete wall curb - OR substitute alternate design and material (e.g. galvanized angle iron)		TLI to review where curbing required
22	2.08 Change all FRP doors to hollow metal doors		
23	2.09 Change IMP ceiling to LAT ceiling (Smoke House, Packaging Room, Plant Corridor 1/2/3, Ingredients Storage, Plant Restrooms, Chemical Storage, Kill Floor Breakroom)		
24	2.10 Change all floor finishes to Sealed Concrete		
25	2.11 Change all bollards to mild steel with epoxy finish		
26	2.12 Eliminate millwork and lockers		
27	2.13 Eliminate wall and single-bump door between Kill Floor Hide On and Kill Floor Cleaning rooms		IF there is no impact on positive airflow westerly, towards the knocking pen, hide removal
28	2.14 Eliminate containment curb for bleed area		
29	2.15 Engineered fire pump building vs. prefabricated		IF Fire Pump is required
30	2.16 Alternate to ceramic tile in retail store (e.g., LPV)		
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32	3.0 ELECTRICAL		
33	3.01 Substitute aluminum conduit in lieu of stainless steel conduit in NEMA 4X wet areas.		Based on assumption that chemicals that may be in prolonged contact with aluminum conduit will not pose a hazard.
34	3.02 Substitute metal-clad cable in lieu of running cables in EMT raceways in interstitial space.		
35	3.03 Remove one dock controller per 2.03 above		
36	3.04 Remove HVAC circuits per section 5 below		
37	3.05 Circuit changes as needed per 6 below		
38	3.06 Alt Add: Extend utility conduits in key note 12 sheet E1.200 to street		
39	3.07 Reduce ATS Specifications from 30cycle two motor to 3 cycle rating		
40	3.08 Light fixtures may be substituted if equal.		
41	3.09 Remove ground loop and triad from grounding scope		
42	3.10 Remove (13) walk-on ceiling lights		
43	3.11 Reduce service and switchboard to 800amp main based on process load 50% demand factor.		
44	3.12 Eliminate or reduce generator size as result of requirement for fire pump.		TLI to follow up with Town requirements of fire pump.
45	3.13 Aluminum vs Copper Wire		
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47	4.0 PLUMBING		
48	4.01 All Stainless Steel Drains/cleanouts shall change to Cast Iron		Cast Iron Drains will require chemical resistance coating, discoloration may occur overtime and drains may become more susceptible to corrosive solutions as coating wears overtime. Even with the protective coating the cast iron drains will be less corrosive resistant than S.S. Drains.
49	4.02 Change Pipe to CPVC		Cost and time associated with variance with State, this option is recommended for increased corrosive resistance but requires state approval.
50	4.03 Remove PHWR from all hand sinks, Leave PHWR on Main Header		There will be no instantaneous hot water for any of the sinks in process areas. This is the case for hose stations as well (already taken out prior to bid). Savings are reflection of removing PHWR from sinks only.
51	4.04 Change Water Distribution Piping from Copper to Pex Tubing		Increase in number of hangers required for piping system. Application of Pex Tubing shall be verified with state and authority having jurisdiction. This savings is based on entire system (up to 3" pipe) replacement. Massachusetts Accepted Plumbing Products only includes up to 1" Pex Tubing/Fittings for Approved materials. It is highly recommended that pox tubing not be used for industrial applications.
52	4.05 Stub out and cap the drain in bleed area to plan for future blood holding tank. Extend this capped process drain line outside of south wall. Do not connect to any holding tank.		
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1	Value-Engineered PROPOSED ADDENDUM (rev 12/5/2016)	Estimated Cost Savings	Description of Design Concessions
54	5.0 MECHANICAL		
55	5.01 Eliminate AHU-01 (Breaking & Fab), Associated Duct, etc.		Min OA (RTU-06) at 45-50F supply air and new Evaps. No wash down cycle, high levels of humidity and condensation during operation and wash down, drying of space following wash down could take hours. Supply air could condense upon entering the space - recommending drain pan below diffusers.
56	5.02 Eliminate RTU-05 (Dry Storage Dock), Associated Duct, Etc.		10 kW EUH for heating, 2 HP EF w/ Louver for cooling. Space temps will range from 10-15F above ambient during the summer, 45F during the winter. During the summer, condensation will most likely form at the door to the plant corridor.
57	5.03 Eliminate DDC Control System		Local Monitoring and control of all mechanical and refrigeration equipment. Operator will need to physically walk to each zone to monitor and adjust temperature. There will be no alarms to notify of Owner of any equipment failures or high/low temperatures. There will be no trend data to monitor energy usage.
58	5.04 Convert RTU-01 (Offices, meeting areas) to constant volume unit, eliminate all VAV boxes		Unit supply air temp will be controlled by single thermostat. Each zone temperature could vary significantly depending on relative building location, occupancy, equipment.
59	5.05 Eliminate ARC-01 (between breaking/fab & cooler)		No air curtain between breaking/fab and cooler. Condensate could form on door.
60	5.06 Eliminate EUH-01 in Hide Dock		Eliminate 2nd EUH in hide dock. Freeze protection for fire pipe only. EUH-02: Increase from 5 kW to 10kW.
61	5.07 Eliminate Wash down Exhaust fan in Kill Floor, Reduce Make-up Heating Capacity of RTU-04		RTU-04 will no longer have a full wash down mode. RTU-04 will recirculate approx. 6,000 CFM of 12,000 CFM Supply air during wash down. This will increase drying time following a wash down cycle.
62	5.08 Change grills/diffusers in process areas from Stainless to Aluminum		Depending on cleaning chemicals used, this could cause significant rusting of grills/diffusers in a short period of time.
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64	6.0 REFRIGERATION		
65	6.01 Single condenser unit for P108 and P106 (Hot Product and Curing Cooler)		If condenser unit is inoperable due to failure or maintenance, P108 and P106 will not receive any cooling
66	6.02 Remove one evaporator from Inedibles and Hides Dock		Lack of capacity on hottest days of the year
67	6.03 Remove one evaporator from Frozen Boxed Freezer		Lose 100% capacity capability. With 2 evaps, there will be 60% cooling capacity for approx. 45 minutes while one evap is in defrost
68	6.04 Additional Equipment for Breaking and Fabrication Room (additional Cost)		Refer to Mechanical line item 5.01; Additional condenser unit and evaporators due to elimination of AHU-01
69	6.05 Change Sales Cooler from one evaporator to two evaporators		Strongly recommended change, no negative affects to capacity
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71	7.0 FIRE PROTECTION		
72	7.01 Switch from white heads to brass heads in Process Areas		DGL investigated switching from white heads to standard brass heads in process areas but the savings is negligible (typically \$0.30 per head).
73	7.02 Eliminate Fire Pump if permitted by Town		TLI to follow up with Town requirements of fire pump.
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75	8.0 CIVIL		
76	8.1 Adjust grade at CL4 A-B to eliminate railing		