

Potential VE Items

Division 01

1. Remove Sales Tax from the project
2. Adjust schedule to avoid any winter conditions

Division 02

1. Delete Landscaping from the scope of work

Division 03

1. Remove 10" Ledge on CIP foundation
2. Reduce slab thickness to 4" throughout

Division 04

1. Replace Veneer with Thin Brick
2. Remove Masonry Veneer in its entirety
3. Remove Masonry Gable Walls
4. Drop exterior Masonry wall height by 1'6"
5. Remove Masonry at Entry Columns
- 6.

Division 06

1. Change Trusses to 16" OC with ¾" Advantech Roof sheathing in lieu of 1-1/8" Sheathing
2. Add Wood Gables with plywood sheathing at end walls where masonry is shown
3. Remove Bar Joists and Deck – Replace with Wood

Division 07

1. Remove insulation from roof deck – spray foam underside of roof deck.
2. Remove AVB – Replace with 4" of spray foam on exterior
3. Remove Metal Roof – Replace with Asphalt Shingles
4. Delete Hydro duct
5. Damp proofing at Mechanical pit walls only
6. Delete Atas or Everlast Aluminum siding with Steel PBR Panel (Full Height)

Division 08

1. Change Bullet Resistant Glass from Level 4 to level 3
2. Reduce STC Rating on 2 STC Wood doors from 52 to 40

3. Change 3 Detention Hold Cells to 14 GA Frames and 14 ga Stiffened Steel Comm. Doors

Division 09

- 1.

Division 10

1. Change exterior signage from back lit to no lighting

Division 11

1. Remove Bench & pull out drawers from lockers (2' x 2' x 7') including single door with a top shelf with garment rail – no other equipment in the locker.
2. Reduce Evidence lockers from 3 to 2.
 - Cost Per E1 & E3 is \$12,000.00
 - Cost Per E2 is \$7,200.00

Division 12

1. Change Dual shades to single shades
- 2.

Division 22 & 23

1. Replace Scheduled PVI Conquest water heaters with Rheem 100 Gallon 400,000 BTU LP Water heaters. This possible cost saving includes the standard factory warranty I have not included the extended 15 year warranty cost for this VE item.
2. Replace Scheduled Intellestation Domestic Hot Water Mixing Valve with a 1 ¼" Caleffi \ Legiomix mixing valve
3. Remove the Crete Heat Insulation Panels from the mech/plumbing scope. If this deduct is chosen the GC will need to carry expenses to lay in 2" blue board and wire mesh or rebar to attach tubing to.
4. Replace ASHP-1 and all of the FCU's with a Mitsubishi VRF System consisting of two outdoor units and indoor ducted units. This cost savings item will eliminate all

chilled water piping, valves, fittings, chilled water pumps CHWP 1 & 2, buffer tank B-2, air separator AS-1, glycol feed pump GF-1, expansion tank ET-2, and the under ground piping heat trace system. This deduct includes removing the underground chilled water lines feeding the building and replacing them with refrigerant piping run above grade. I have also included pre insulated refrigerant piping line sets and Type L ACR piping with insulation to complete the interior Air Conditioning Piping for this item. If this is possibly an acceptable option I would also replace the Specified DOAS Unit with a Renewaire Energy Recovery Unit with External Duct Heating Coil. The reason for this is there will be no more chilled water system to feed this unit, the added cooling load we have allowed for in the sizing of the ducted indoor units and Mitsubishi VRF System

5. Delete in its entirety, spec section 23 25 00 HVAC System Water Treatment. This is unnecessary and removing it eliminates both of the chemical feed pump systems as well as system treatment chemicals that will have to be monitored, maintained and altered as the system ages.
6. Remove Glycol Mixing Station GF-1 from Boiler System and install a tee, pressure gauge, fill point, hoses, 120v transfer pump, and a 50 gallon drum of pre mixed glycol for the heating system.
7. Replace the Cast Iron No hub drainage waste and vent piping in the building with PVC Pipe and Fittings with firestops and fire caulking
8. The plumbing/mech specifications include details on commissioning and a commissioning agent there is no mention of commissioning in the front end of the specifications. We are unclear on commissioning if this is not a requirement please deduct from our scope.
9. Remove vibration isolation and seismic bracing from the project. All equipment that poses a risk of vibration noise come from the factory with internal vibration. This is unnecessary.
10. Remove the requirement of Coordination Drawings. This is unnecessary.
11. Remove The Dehumidification Unit DHU-1 from evidence storage and install Namco RW-150 Dehumidifier and add an indirect waste for condensate removal
12. Replace the Sally Port Trench Drains with four 4" standard floor drains

13. Remove the specified Dog Kennels P-17 and replace them with Vibrant Life 48" Wire Dog Crate. Replace the Dog Wash Station P-16 with a 3/4" domestic hot water tempering valve, thermometer, hose, and hose sprayer.
14. Replace the scheduled boilers with Veissman Boilers with a Insulated Low Loss Header. This eliminates buffer tank BT-1 the low loss header will replace the need for this.

Division 26, 27 & 28

1. Lighting Fixture Package – TBD. The lighting vendor would like some direction from the engineer for lighting cost savings. They would like to discuss options and not affect the photometrics unless approved prior by the engineer
2. Type P Style (Owner Provided) – TBD. The Plans note 150' of light but does not provide description of the fixture.
3. Switchgear – Remove BABA requirement
4. Branch Circuits – Replace conduit homeruns, etc. with MC Armored cable
5. Fire Alarm – Remove Voice EVAC
6. Access Controls – Remove Cabling (Pathways only)
7. Video Surveillance – Remove Cabling (pathways only)
8. Electrical Service Conductors – Replace Copper with aluminum
9. Panel board feed conductors – replace copper with aluminum
10. Remove lightning protection system