Replacement Medical Center Facility Eastern Colorado Health Care System Aurora, CO



		ADD	TIONAL PROPOSED VE									IM	PACT (Y/N, if "Y" apply C	omment or PRO / CON)							a Joint Venture
							Variance from						1							netured in DOC #5 Included in DOC #	7
KT Lead	I ID	VE #		Proposer Trade (s	s) Building? Target Cost In	npact Ac	Actual Cost Target Accceptance	Action Item	Responsible Party	SCHEDULE	COST PATIENT CA	RE FORM	FUNCTION	SPEC. VARIANCE	LIFE CYCLE COST	Comment or PRO / CON	JVT Cor	nments 7-14	-2011	ncluded in DOC #6 CS-1 IFO-3 IFO-1	Remarks (Nov 4, 2011)
Donnelly	В	id VE VE-1	 Reduce thickness of foamed-in-place metal panels where insulating properties are not required. 	JVT						No	No	No	No	No	No						
Wegner	K	T estm. VE-2	Omit the partitions in the PVN & PSN stairs where not required for seperation.	JVT Arch						No	No	No	No	No	No						
Donnelly	К	T estm. VE-3		JVT Arch			E	Establish height reduction	JVT	No	No	No	No	No	No						
Carlson, estimate	к	T estm. VE-4	Reduce site wall width. In conjunction with VE 33.	JVT Land						No	No	No	No	No	No						
Morgan	s	ub price VE-5	Reduce the Level 2 interstitial slab at the east elevaton of the DAT.	KT Arch/stru						No	No	No	No	No	No						
Donnelly	P		Use a spandrel panel and insulation in lieu of a shadow box system at PVN & PSN garages.							No	No	No	No	No	No						
Donnelly	P	NA VE-	Omit horizontal caps, at Concourse exterior wall, at level 2, level 2 intermediate, level 3 and level 3 intermediate.	KT/JVT Glass						No	No	No	No	No	No						
Donnelly	P	NA VE-I	(see also VE-17,18) Reduce all mullions widths to 3" from 4"	KT/IVT Glass						No	No	No	No	No	No						
Donnelly	В		Use a two coat kynar paint system on the metal panels ilo	D JVT Mtl Pnls						No	No	No	No	No	No						
-			3 coats. O Open							No	No	No	No	No	No						
Morgan	s		Delete the interstitial floors from the project. Leave the	KT Struct						No	No	No	No	No	No						
Carlson	K		floor to floor elevations intact. Change concrete parking lot paving to asphalt paving at							No	No	No	No	No	No						
Carlson	K		PSN entry, fleet vehical surface parking lot, North entry Change IPE trellis wood slats to aluminum slats or another							No	No	No	No	No	No						
Carlson	K	T estm. VE-1	type of wood slat. Change the type 1 drainage swales to yard drains with UG	KT Land						No	No	No	No	No	No						
Carlson	K	T estm. VE-1	piping (4064lf) Change the type 2 drainage swales to yard drains / CB	KT Land						No	No	No	No	No	No						
Morgan	Void S	ub price VE 1	with UG piping (6849lf) Change concrete shear walls where used with steel-	KT	CBC,CBN,IBN,IBS												SAM stated that due to the progressive				
			framing to steel bracing, plus foundation changes.		, CON												collasp requirements concrete shear walls are need to add structural stiffness.				
Donnelly	P	NA VE-1	7 Change the CON zig zag wall and first floor storefront	VA Glass	CON (550),000)				TBD	No	No	No	No	Yes						
			systems to a flat curtain wall; see also accepted VE#17 (1000000-450000= 550000); and VE-18.																		
Donnelly VI	'E P	NA VE-1	8 For Zig Zag wall, glass is relocated to be parallel to the	KT Glass	CON (450	0,000)	Si	SOM to review internally with their designers;	JVT - Bernie (SOM) KT - Tina,	TBD	No	No	No	No	Yes						
17			backside of the system.				h	norizontal metal infills; Permasteelisa to	DA Sub								JVT notes horizontal metal fins will be deleted. The glass should remain as				JVT deleted the horizontal metal fins. K-T to adjust costs savings to reflect.
							lo lo	evaluate the cost of triple, in lieu of standard G unit, for the re-aligned glass; Triple Glazing									designed based on building energy calculations. JVT will look at continuing to	VA	CS-1 (95% CD 8/19/2011) - TBD	Yes - Partial n/a	Balance of design requires K-T Design Assist Subcontractor to maximize the
							a W	add is approx \$10-\$11/sf SIMPLIFY ZIG ZAG WALL									simplify curtiain wall.				savings.
Wiebelhaus	v	A VE-1	9 VA to allow and pay for off site stored materials.	Rocky Mountain Structural Prestress precast	PVN,PSN	TBD				No	No	No	No	Yes	No	VA to deceide under what circumimstances they would pay for stored materials.					
Morgan	s	ub price VE-2	Substitute untreated black reinforcing steel for specified	Rocky Mountain Structural	PVN,PSN (416	5,273)	(416,273)			No	No	No	No	Yes	No	Reviewed by SA Miro and should not be an					
			galvanized reinforcing.	Prestress precast												issue to revised specification. Not a VA specification variance.					
Morgan	s	ub price VE-2	Substitute untreated black steel weld plates for specified galvanized weld plates. Add painting plates.	Rocky Mountain Structural Prestress precast	PVN,PSN (278	3,969)	(278,969)			No	No	No	No	Yes	No	Reviewed by SA Miro and should not be an issue to revised specification. Not a VA					
Morgan	s	ub price VE-2	2 If 2D AutoCAD from RMP supports the BIM model withou		PVN,PSN (41	1,199)	(41,199)			No	No	No	No	Yes	No	specification variance.					
Morgan	s	ub price VE-2	a BIM modeler deduct Accept 1 year precast warranty, stated in prime contract	Prestress precast Rocky Mountain Structural	PVN,PSN (142	2,500)	(142,500)			No	No	No	No	Yes	No						
			attachment A, in lieu of 5yr specified 03 45 00.	Prestress precast																	
Morgan	s	ub price VE-2	At the garages, delete the profile precast panel and provide a flat spandrel panel with chamfer edges.	Rocky Mountain Structural Prestress precast	PVN,PSN (67	7,617)	(67,617)			No	No	Yes	No	No	No						
Danash		ub price VE-2	In the 95% CS-1 drawings, for the buildings, change the	NT (auch hid	-1					N-	N-	N-	N-	N-	N-						
Dollinelly	٥	ub price VE-2	new 10" thick Insulated precast panels back to a standard 6-7" thick precast panel at all locations, e.g. CBC and CBN,	d precast pan	nels					NO	No	NO	No	NO	NO						
			(except at concrete shear walls). For example, refer to Isometric 03/08.AS.310: change these 10" insulated																		
			precast panels back to a standard panel.																		
Donnelly	3	ub price VE-2	6 In the 95% CS-1 drawings, at all penthouses for D&T, IBS, IBN, CBC, & CBC, at the Intake louvers, revert back to the design shown in the DD-2 drawings. The DD-2 document:	precast pane						No	No	No	No	No	No						
			indicated standard intake louvers, a CMU wall to retain the louver in a blast event, with interior rooms of standard																		
			20' tall studs and drywall; 95%CS-1 drawings now indicate standard louvers, CMU deleted and replaced with a blast-																		
			resistant structural stud-insulated metal panel clad wall, with interior rooms composed of 20' tall blast structural																		
			studs, clad with more insulated metal panels. For example, see 03.AS.104-A and Plan 6/XX.AS.525.																		
Donnelly	S	ub price VE-2	7 At all penthouses, retain the Insulated metal panel exterior wall (MP52) and delete the overlay of horizontal	KT / sub bid Metal panel	els					No	No	No	No	No	No						
L	\perp)		architectural ribbed panels (MP51).											<u> </u>				<u></u>			
Donnelly	S	ub price VE-2	8 In the 95% CS-1 drawings the Concourse Chapel roof is shown to be a metal roof system in lieu of an EPDM roof	KT estimate Metal roofin	ng					No	No	No	No	No	No						
			assembly. Change to roof system back to EPDM. Also, delete the metal seam roof at the Bridge roof, crossing																		
Donnelly	S	ub price VE-2	17th street. In the 95% CS-1 drawings, the exterior wall precast panels	s Sub bid Structural	Garages					No	No	No	No	No	No						
			are twice the required thickness due to architectural articulation. Simplify the Garage exterior wall precast panels;	precast																	
			change back to DD-2 design.																		
Donnelly	S	ub price VE-3	In the 95% CS-1 drawings a new free standing canopy has been added, refer to Drawing 03.AS.313 and 00.AS.102-A.	KT estimate Mtl canopy	south of DAT					No	No	No	No	No	No				\Box		
Donnelly, Morgan,	K	T estm. VE-3	Delete the canopy. For the Garages, delete the BIPV overhang grid: structural	I VE 4 changes BIPV PV	Garges					No	No	No	No	No	No	+			+		
Fallvene			steel/misc metals, aluminum grid and BIPV panels.	to PV										<u> </u>				<u></u>			
Donnelly & wegner	К	T estm. VE-3	In the 95% CS-1 and IFO drawings, (see 01.AI.504, 01.AI.411-D, & 01.AS.102-D. & 3/01.AS. 306), new roof	KT Skylights	Concourse					No	No	No	No	No	No						
			skylights have been added at Dining and at the Chaple; the interior RCP and sections indicate operable skylight																		
			diffusers, extensive coffered, sloped ceiling, etc. Delete the skylights.																		
Wegner	К	T estm. VE-3	3 For the Concourse building, change the interior Atrium Glass walls, which are now cantilevered off of the slab	KT Interior glas	ss Concourse					No	No	No	No	No	No						
			edge (see Dwg XX.AS.515), to a more simplified, floor-to- floor system.																		
Wegner	К	T estm. VE-3	4 At the interior of the chapel, delete the new wood 'louver	r- KT Millwork	Concourse					No	No	No	No	No	No						
			slat' at the inside face of the exterior wall (see Dwg 01.AI.502).																		
Morgan	К	T estm. VE-3	In the 95% CS-1 drawings, for D&T, IBS, IBN, CBC, and CBN new exterior metal pan stairways have been added from		DAT, IBS,IBN,CBC,					No	No	No	No	No	No						
			the penthouse floor level to the roof of the penthouses (see Dwgs XX.AS.410 & 411, 03.AS.104-B). Provide ladder in lieu of new stairways.	rs	CBN																

Replacement Medical Center Facility

Eastern Colorado Health Care Systen

T-40 RK Mech. Review sizing of the storm water overflow lines

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ADDITIONAL PROPOSED VE VE # Proposed VE Item KT Lead ID Proposer Trade (s) Building? Target Cost Impact Actual Cost Variance from Target Accceptance Included in DOC #6 CS-1 IFO-3 IFO-1 JVT Comments 7-14-2011 Action Item Responsible Party Remarks (Nov 4, 2011) In the 95% C5-1 drawings, for R5-D4T, IBN, IBS, CRC & CBN at the Penthouse Level, delete the Extraor Precist and the supporting H5S steel members these precising part and the supporting H5S steel members; these precising panels do not enclose interior space. For example, see the One of Code IBN at Code IB In the 95% CS-1 drawings, for the Concourse Building, delete the clerestory level in its entirety (structure and walls) and delete the custom window washing all & trolley system. For the cleaning of the Concourse lower glass walls, add dawlst. Slope roof system so that the new stainless steel gutter system is not required. VE-38 Delete the metal seam roof at the Concourse at the Main roof and at the circustory level.

 VE-39 For Research building, eliminate the the non-flunctional space between Column Lones 09 4-to-exterior wall, and delete this exterior wall (this interior space has no function). KT estm. VE-40 Change West Elevation Entry Monumental Stone walls to CMU & Metal screen wall. T & JVT collaborate on details. JVT - Bernie (SOM) KT - Tina, DA Sub It was agreed to look at reducing the height of the wall, not change to a metal screen wall.

Glass thickness is performance based by the curtainwall contractor. Donnelly VI 7m PNA VE-41 Provide 5/16" thick outerlite for all glass in lieu of 3/8" thick glass.

Donnelly VI D KT est. VE-42 Energy Center -reduce exterior enclosure design Mtl pnls to precast flat pnls. IVT TO STUDY THE WIND LOAD REOMTS CS-1 (95% CD 8/19/2011) VES n/a JVT & KT collaborate on design alternative (schedule impacts/concerns) CONFIRM Multi Trades JVT to review reducing Metal panels & impacst of precast panel changes on the allready issued STR work. JVT's directvie will be not to change STR documents. (schedule impacts/conce SCOPE AND PRICE Vill be included as part of the ENC Redesign. CS-1 (95% CD 8/19/2011) n/a Sub price VE-43 Eliminate the precast lattice facing on the garage exterior. Rocky Mountain Struct Precast PVN,PSN It was noted that the alternate system must also fuction as a vehicular barrier or another barrier will be required. Open Issie - BIC-JVT to review design. Precast spandrel panel to have an architectural finish. Define & Image T-12 RK Mech. VE- Fiberglass ILO Polyiso Pipe Insulation on Cold Systems RK and CR to review this issue, there is an T-1.6 RK Mech. Patient Room DW PEX Piping
T-17 RK Mech. Copper/Silver Indication System ILO Chlorine Dioxide Injection System issue with smoke with Polyiso CR to review and ask the VA for approval Copper/Silver Ionization is VA Preferred System This should be accepted based on VE-40's acceptance, but confirmation to use PVC needs to go through VA.
This should be accepted based on VE-40's acceptance, but confirmation to use PVC Under Ground Piping PVC for Underground W&V Piping ILO Cast Iron R to review and ask the VA for approval PVC W&V Piping in Buildings (Not Parking Garages CR to review and ask the VA for approval 21 and T-23 only needs to go through VA. PVC Vents for Buildings (Not Parking Garages) 21 and T-23 T-25 RK Mech. Eliminate Shower Trench Drains CR to review and ask the VA for approval Provide Traditional Trap This should be accepted based on VE-40's acceptance, but confirmation to use PVC needs to go through VA.
This should be accepted based on VE-40's acceptance, but confirmation to use PVC PVC for Underground Storm Piping ILO Cast Iron R to review and ask the VA for approval Above Grade PVC Storm Piping ILO Cast Iron in Building (Not Parking Garages) R to review and ask the VA for approval needs to go through VA.
This should be accepted based on VE-40's acceptance, but confirmation to use PVC Above Grade PVC Storm Piping ILO Cast Iron in Parking Garages CR to review and ask the VA for approval eds to go through VA. capacity needed and reduce the number of tanks from 6 to 4. Tanks remain the same size.

Savings No

Pending CR to review and ask the VA for approval