

FACILITIES COMMITTEE  
Tuesday, October 16, 2012 8:30 AM

Boardroom / Teleconference  
1820 Xenium Ln N  
Minneapolis, MN 55441-3790

## **Agenda**

1. North Education Center (NEC) Facilities Committee Agenda for October 16, 2012

# Intermediate District 287

RESPONSIVE. INNOVATIVE. SOLUTIONS.

**GROUP:** Facilities Committee

**DATE:** October 16, 2012

**TIME:** 8:30 – 10:30 AM

**LOCATION:** DSC Board Room

**PROTOCOLS:**

Decisions will be made via consensus on the agenda items.

**CONVENER:** Tom Shultz

**FACILITATOR:** Ann Bremer

**ATTENDING:**

**LONG TERM PURPOSE**

The Facilities Committee for the North Education Center project will provide oversight and direction to administration and bring recommendations to the full Board for approval as needed.

AGENDA ITEMS	OUTCOMES	TIME BUDGETED	ACTION
1. Weekly Risk Report, WRR	<ul style="list-style-type: none"><li>Committee members will understand the most recent Weekly Risk Report (WRR)</li></ul>	10 minutes Jeff Walker Site Supt. Jeff Callinan Project Manager	
2. Change Orders	<ul style="list-style-type: none"><li>Committee will review and approve (as necessary) Change Orders.</li></ul>	10 minutes Tom Shultz Mark Thiede Jeff Callinan	
3. All Systems	<ul style="list-style-type: none"><li>Committee will review Daily Progress Log and understand progress of underlying installation issues</li></ul>	15 minutes Tom Shultz	
4. NEC Finance Summary	<ul style="list-style-type: none"><li>The group will discuss NEC Finance Summary including cost overages and plan to address same.</li></ul>	5 minutes Mae Hawkins	
5. Shady Oak / PCA	<ul style="list-style-type: none"><li>Committee will understand options for Shady Oak site</li></ul>	15 minutes Tom Shultz	
6. 9/27/12 Star Tribune Article on NEC	<ul style="list-style-type: none"><li>Committee will view NEC article printed in Star Tribune 9/27/12 and award nominations</li></ul>	5 minutes Tom Shultz	

**HANDOUTS:**

1. Change Order Memo
2. J. E. Dunn Weekly Risk Detail and Summary
3. All Systems Weekly Risk Detail and Summary
4. NEC Monthly Finance Report
5. Star Tribune Article

The mission of Intermediate District 287 Is to be the premier provider of innovative specialized services to ensure that each member district can meet the unique learning needs of its students.

# Intermediate District 287

RESPONSIVE. INNOVATIVE. SOLUTIONS.

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## M E M O R A N D U M

Date: October 16, 2012  
To: Facilities Committee  
From: Thomas Shultz, Director of Facilities  
RE: NEC Change Orders

The following is a list of Change Orders (COs) for the North Education Center construction project. According to the Board-approved decision making process, *Levels of Authority*, those items that are less than \$10,000 may be approved by District Administration. Those items greater than \$10,000 but less than \$25,000 may be approved by the Facilities Committee.

Six Change Orders being presented are within the District Administration levels and are being presented as information only: All Systems CO #03 and #04, J.E. Dunn CO #88 through #92.

Two J. E. Dunn Change Orders require Committee approval: CO#87 and #92

<b>Cost of Change Orders being presented as information only:</b>	\$18,430.00
<b>Cost of Change Orders needing Committee approval:</b>	<u>29,191.00</u>
<b>Total of all Change Orders being presented</b>	<b><u>\$47,621.00</u></b>

### Administration Decision

#### J. E. Dunn

Change Order #88	Add lighting in kitchen per Health Inspector	957.00
Change Order #89	Relocation of HC card reader (3)	783.00
Change Order #90	Trustwater System relocation (TSP)	5,682.00
Change Order #92	Numerous electrical issues, negotiated	8,320.00

#### All Systems

Change Order #03	Mounting of additional power for additional NAC expander in server room	418.00
Change Order #04	Two additional card readers (B-136 and B-230)	2,270.00

### Facilities Committee Decision

#### J. E. Dunn

Change Order #87	Street paving to correct slope	\$15,919.00
Change Order #91	Generator exhaust alterations	13,272.00

J. E. Dunn Weekly Risk Detail Report  
10/5/12

NO	DATE ENTERED	RISK CATEGORY	RISK DETAILS 1. What is the risk / why was it unexpected? 2. What will be done / what is plan to minimize this risk? 3. Who is responsible for resolving the issue? 4. What is an estimated impact of the risk? 5. Any updates to this risk (if applicable)	PLANNED RESOLUTION DATE	ACTUAL DATE RESOLVED	OVERALL DURATION IMPACT	OVERALL COST IMPACT	CHANGE ORDER NUMBER	PM SATISFACTION RATING
127	7/13/12	4) DESIGN ISSUE / IMPACT	RISK DETAILS 1. As noted in the RAVA, JED had a peer review done on the building envelope by Encompass. The result of the comments were changes incorporated into ASI 34. The changes were unexpected because it was a review by a separate design entity. 2. The ASI revised some flashing and waterproofing details. The changes were minimized by definition with the peer review followed by a secondary review by the architect. 3. The project team. 4. Cost for change order is shown to the right. 5. Change Order issued.	1/31/12	7/10/12	0	\$3,169	77	10
128	7/13/12	4) DESIGN ISSUE / IMPACT	RISK DETAILS 1. As noted in the RAVA, JED had a peer review done on the building envelope by Encompass. The result of the comments were changes incorporated into ASI 34. The changes were unexpected because it was a review by a separate design entity. 2. The ASI revised some flashing and waterproofing details. The changes were minimized by definition with the peer review followed by a secondary review by the architect. 3. The project team. 4. Cost for change order is shown to the right. 5. Change Order issued.	2/15/12	7/10/12	0	\$8,420	78	10
131	7/13/12	3) CONTRACTOR ISSUE / IMPACT	RISK DETAILS 1. The terrazzo contractor has not completed the terrazzo as required by the contract schedule, thus delaying a small number of finish items and the owner's contractor in getting the follow up honing completed. While not expected to be late when started, he has failed to perform the work as required. PLEASE NOTE THIS ITEM, CARRIED IN THE RMP SECTION SINCE 6/22/12, WAS MOVED TO A RISK THIS WEEK. 2. He has added manpower to his team to have the work sufficiently complete on Monday, the 16th to allow the honing to start and is scheduled to be complete on July 19. 3. The project team 4. Cost impact, if any, TBD. 5. Work is being completed. Cororecital work as required will be scheduled during the school year	7/19/12	9/14/12	0	\$0	N/A	
132	7/13/12	2) CLIENT ISSUE / IMPACT	RISK DETAILS 1. The phone system for the building was not complete in time to allow the final elevator start up and inspection to be complete prior to substantial completion and allow the elevator use for move in of owner furniture. This issue became known prior to completion. 2. The owner has installed an optional phone set up to allow completion of the elevator start up. The final adjustments will be made next week and we are working to get the inspector scheduled for approval to operate. We have worked to minimize the impact to the owner activities by providing an operator to run the elevator when possible. This will continue moving forward. 3. The project team 4. Cost impact will be operator costs, which are to be determined. 5. Not applicable	7/20/12	8/24/12	0	\$0	n/a	
135	8/3/12	4) DESIGN ISSUE / IMPACT	RISK DETAILS 1. During the Health Department review in the kitchen, the inspector required us to install additional lights in the kitchen areas. Unexpected because there was a question on lighting during the plan review, but we understood it had passed. We knew nothing of the fixtures until the inspection. 2. Fixtures will be added. To minimize cost, per the owner's direction, we will add readily available fixtures in lieu of the fixtures called out in the design. Fixtures were ordered and installed. 3. The project team. 4. The cost to provide and install the fixtures is to be determined. JED has estimated it at \$2,000 for now. 5. Not applicable.	8/10/12	8/28/12	0	\$957	88	

J. E. Dunn Weekly Risk Detail Report  
10/5/12

136	8/10/12	4) DESIGN ISSUE / IMPACT	<p><b>RISK DETAILS</b></p> <ol style="list-style-type: none"> <li>1. There is an issue with the location of the card reader at the handicap door. The location of the reader and the handicap push button make access an issue. The card reader is also one of the hot spot locations. Unexpected since it was install per the plans.</li> <li>2. CCD 2 was issued directing us to move the readers</li> <li>3. The project team.</li> <li>4. To be determined.</li> <li>5. Card readers are being relocated.</li> </ol>	8/10/12	8/28/12	0	\$783	89	
139	8/10/12	4) DESIGN ISSUE / IMPACT	<p><b>RISK DETAILS</b></p> <ol style="list-style-type: none"> <li>1. The trustwater system was installed in the location shown on the drawing. The ISD decided to move it to another location once installation had begun.. It was unexpected since it was being installed as shown.</li> <li>2. Per owner direction, the system was relocated.</li> <li>3. The project team.</li> <li>4. The price is to the left</li> <li>5. There are discussions going on between the owner and TSP as to resolution.</li> </ol>	8/10/12	9/11/12	0	\$5,682	90	
140	8/10/12	3) CONTRACTOR ISSUE / IMPACT	<p><b>RISK DETAILS</b></p> <ol style="list-style-type: none"> <li>1. During the installation of the drainage swale on the back side of the north parking lot, the earthwork contractor hit one of the piping loops for the geothermal system. The pipe location was known, the unexpected break was due to a mistake by the earthwork contractor.</li> <li>2. The loops in question (unknown which loop at the time of break) were taken out of service and the system restarted. The loop was fixed and the system will be refushed and the loops restarted.</li> <li>3. The project team.</li> <li>4. The cost to the owner is \$0. The cost to the earthwork contractor is estimated at \$10,000 at this time.</li> <li>5. Loop has been repaired and flushed. Glycol refill is currently scheduled.</li> </ol>	8/17/12	8/27/12	0	\$0	N/A	
144	8/17/12	5) UNFORESEEN IMPACT	<p><b>RISK DETAILS</b></p> <ol style="list-style-type: none"> <li>1. During a City street inspection, the City notified JED that the street would have to be removed, regraded and paved at the SE corner of the sight on Zealand and at the NE corner of the site on 56th Ave due to a grade issue with the repair. This was unexpected (a) nothing claled out on drawings and (b) City had not noted the issue previously.</li> <li>2. The architect has issued PR 23 to get pricing for the work.</li> <li>3. The project team</li> <li>4. See cost to the right.</li> <li>5. Not applicable</li> </ol>	8/24/12	8/28/12	Will take place after completion date	\$15,919	87	
145	8/17/12	4) DESIGN ISSUE / IMPACT	<p><b>RISK DETAILS</b></p> <ol style="list-style-type: none"> <li>1. The drawings do not call for any type of closure under the stair or over the raidation piping at stait B01 and B05.</li> <li>2. THe architect has issued ASI 71 for metal panel closures at each location.</li> <li>3. The project team</li> <li>4. See cost to the right.</li> <li>5. We are reviewing costs with the owner team. 9/28/12 - We are building a different stair enclosure per review withthe owner. We will track time on a T&amp;M and provide pricing later. We have reviewed the requirement for a radiator cover with the architect. There was never anything included in the drawings, so we have left he price for the cover as is.</li> </ol>	8/24/12		Will take place after completion date	\$7,669		
147	8/31/12	4) DESIGN ISSUE / IMPACT	<p><b>RISK DETAILS</b></p> <ol style="list-style-type: none"> <li>1. The room for the generator (in the trash enclosure building) causes the heat from the exhaust to heat the air and push the internal temperature of the generator to overheat. This issue was compounded by the electrical contractor installing the generator 180deg from design.</li> <li>2. CCD 1 was issued to add ductwork, louvers, etc. to allow more air into the space and allow exhaust to exit the space.</li> <li>3. The project team.</li> <li>4. The pricing has been submitted as noted to the left. Working through the numbers to get the correct pricing.</li> <li>5. Not applicable.</li> </ol>	9/11/12	9/11/12	0	\$13,272	91	
148	8/31/12	5) UNFORESEEN IMPACT	<p><b>RISK DETAILS</b></p> <ol style="list-style-type: none"> <li>1. Per drawing C103, the contractor is to assume there are 2950cy of topsoil on site for use. When topsoil installation time arrived, it was determined that only 1450 cy had been stockpiled on the site by the phase 1 contractor. This was unforeseen in that the quantity to be expected was stated on the drawings.</li> <li>2. JED has directed the earthwork contractor to procure and provide needed topsoil. While the original quantity estimate was approx 1400cy, the total actually needed was 1018cy.</li> <li>3. The project team.</li> <li>4. The total price is shown to the left.</li> <li>5. Not applicable.</li> </ol>	9/11/12		0	\$21,297		

J. E. Dunn Weekly Risk Detail Report  
10/5/12

149	9/7/12	4) DESIGN ISSUE / IMPACT	<p>RISK DETAILS</p> <ol style="list-style-type: none"> <li>The contract documents do not call for insulation on the refrigerant piping. RFI 287 was issued to ask the question. RFI 287 directed us to install the insulation. Unexpected since not called for in the documents.</li> <li>Per the RFI answer to add the insulation, PCI 147 was issued. The architect has rejected the CO request based on Best Value and industry standard. The subcontractor wants to discuss this issue. Insulation has not been installed.</li> <li>The project team.</li> <li>The total price is shown to the left.</li> <li>9/14/12 - The costs for this change were rejected as an item that should have been known under Best Value. Not closed until confirm acceptance with the subcontractor.</li> </ol>	9/11/12	9/11/12	0	\$0	N/A	
150	9/7/12	5) UNFORESEEN IMPACT	<p>RISK DETAILS</p> <ol style="list-style-type: none"> <li>There is a conflict between the hardware specified for the partition swing doors and their mounting location on the swing doors. The partition construction does not allow the hardware to be mounted. The partition mfg (separate contract) has designed a fix for the issue but has charged our hardware supplier for the material. There is also an issue with the designed fix not working or costing additional labor for installation that the partition supplier is looking to our supplier to pay. This was unexpected since the partition supplier was chosen after our contract RAVA period was completed.</li> <li>Our hardware supplier has issued a PO for the material to keep the ball rolling, but feels the cost is not theirs to bear. JED agrees with this position.</li> <li>The project team.</li> <li>The estimated price (all of the final costs on the shipping is not known) is shown to the left. Pricing to be submitted on 9/10/12</li> <li>9/14/12 - Moved to RMP section until actual approach is determined.</li> </ol>	9/11/12	9/14/12	0	\$0	N/A	
151	9/14/12	4) DESIGN ISSUE / IMPACT	<p>RISK DETAILS</p> <ol style="list-style-type: none"> <li>There are several electrical issues (T1 to D4 fixture change, kitchen coiling door, 120v power for acc heaters, FCU 114 power feed and FCU B205A and B205B, GMP-CRAC unit power) that were originally rejected by TSP that the electrician disagreed with. Elliott asked for a meeting to review with the owner. Based on the discussion, the owner agreed to review and potentially cost share on the items noted. This was unforeseen and not included in the risk report since the items were originally rejected.</li> <li>The work noted on each item is complete.</li> <li>The project team.</li> <li>The price to date is shown to the right - there is still some discussion on a couple of the items. 9/21/12 - Final number shown to the right.</li> <li>9/21/12 - Completed review this week.</li> </ol>	9/21/12	9/26/12	0	\$8,320	92	
152	9/14/12	4) DESIGN ISSUE / IMPACT	<p>RISK DETAILS</p> <ol style="list-style-type: none"> <li>The design of the exterior water and air barrier calls for it to be continuous on the building. Where the front canopy extends out from the building, there was an opening in this protection that was not closed. It was unexpected due to the size of the detail versus the time during RAVA.</li> <li>By RFI, the architect added a roof membrane dam down to the deck to close the air gap.</li> <li>The project team.</li> <li>The price to date is shown to the right.</li> <li>Not applicable.</li> </ol>	9/21/12		0	\$3,482		
153	9/21/12	1) NO RISKS							
154	9/28/12	4) DESIGN ISSUE / IMPACT	<p>RISK DETAILS</p> <ol style="list-style-type: none"> <li>In order for the door operations to work as requested by the owner, we need to add three power supplies above ceiling. This was unexpected because the control of the door is under a different contract package (Tech) and the power supplies are in per the contract.</li> <li>By Tech package RFI 34, the architect called for additional power supplies. The price was minimized by coordinating the power supplies needed with the Techpackage contractor.</li> <li>The project team.</li> <li>The price is shown to the right.</li> <li>Not applicable.</li> </ol>	9/28/12				Will take place after completion date	\$3,225
155	9/28/12	5) UNFORESEEN IMPACT	<p>RISK DETAILS</p> <ol style="list-style-type: none"> <li>In mechanical room B205, the concrete SOD has cracked, which is typical for SOD installations. The specs call for grout to fill the cracks, but this will not prevent the cracks from working through the grout and separating the bond. The high performance Sherwin and Williams coatings will not span the crack. Sherwin and Williams has recommended a product. The team is reviewing.</li> <li>The project team is reviewing the costs for this system as well as reviewing other materials in lieu of the specified coating.</li> <li>The project team.</li> <li>Price for crack filler is noted to the right.</li> <li>Not applicable.</li> </ol>	10/5/12				Will take place after completion date	\$1,350
156	10/5/12	1) NO RISKS							

# Intermediate District 287

## Weekly Risk Report

October 5, 2012

Project Name: **North Education Center**  
 Project ID: **12/1/2010**  
 Contractor: **JE Dunn**  
 Project Type: **General Construction**  
 Award Method: **RFP - PIPS Best Value**

Risk Rating: 1.0  
 Percent Complete: 99%  
 Overall PM Risk Satisfaction: 10.0  
 Risks: 109  
 Risks Unresolved: 7  
 Risks resolved but no Change Order: 3

### Cost Analysis

Allocated Funds: \$27,100,000  
 Awarded Cost: \$25,987,230  
  
 Potential Cost Increases: \$725,412  
 Potential Final Cost: \$27,372,553  
  
 Actual Cost Increases: \$659,911  
**Actual Final Cost: \$26,647,141**  
 Percent Increase in Cost: 2.5%

Contractor Change Order Rate: 0.0%  
 Non-Contractor Change Order Rate: 2.5%

### Schedule Analysis

Notice to Proceed Date: 3/24/2011  
 Original Completion Date: 8/24/2012  
  
 Potential Project Delays: 0  
 Potential Completion Date: 8/24/2012  
  
 Actual Project Delays: 0  
**Actual Completion Date: 08/24/12**  
 Percent Delayed: 0.0%

Contractor Delay Rate: 0.0%  
 Non Contractor Delay Rate: 0.0%

Project Schedule Analysis	Total Number of Risks	Potential Schedule Impacts	Potential Cost Impacts	Actual Schedule Impacts	Actual Cost Impacts
1) NO RISKS	45	0	\$ -	0	\$ -
2) CLIENT ISSUE / IMPACT	24	0	\$ -	0	\$ 82,988
3) CONTRACTOR ISSUE / IMPACT	2	0	\$ -	0	\$ -
4) DESIGN ISSUE / IMPACT	66	0	\$ 42,854	0	\$ 413,607
5) UNFORESEEN IMPACT	17	0	\$ 22,647	0	\$ 163,316
	<b>109</b>	<b>0</b>	<b>\$65,501</b>	<b>0</b>	<b>\$659,911</b>

All Systems Weekly Risk Detail Report  
10/5/12

NO	DATE ENTERED	RISK CATEGORY	RISK DETAILS	PLANNED RESOLUTION DATE	ACTUAL DATE RESOLVED	IMPACT TO OVERALL PROJECT DURATION (In Days)	IMPACT TO OVERALL PROJECT COST	CHANGE ORDER NUMBER	PM SATISFACTION RATING
15	12/22/11	4) DESIGN ISSUE / IMPACT	New Hope fire marshall is requesting additional horn/strobes in design above TSP design for proper notification. Submitted pricing to Tom Shultz 1/6/12. Re-submitted 1/16/12-1/25/12 TSP response back, GSSC will install field devices at no extra charge per the fire alarm specifications.	1/20/12	1/25/12	0	\$0		10
25	3/2/12	2) CLIENT ISSUE / IMPACT	Gym AV system was not originally in base bid. Electrical rough-in work for gym AV started.	2/27/12	2/27/12	0	\$8,605	1	10
33	4/27/12	4) DESIGN ISSUE / IMPACT	NAC expander power missing on plans for fire alarm system. Added (6) 120 VAC power outlets and conduit for NAC expanders.	4/24/12	4/24/12	0	\$2,422	2	10
37	5/23/12	4) DESIGN ISSUE / IMPACT	NAC expander power missing in room C202. Added conduit-rough-in and power to room C202	6/19/12	8/10/12	0	\$418	4	10
40	6/15/12	2) CLIENT ISSUE / IMPACT	Century Link boring permit for 100-pair telco service to building. Century Link claims that they are waiting for permit from city to bore 1,075' of 100-pair to splice point on West side. We have installed the 100-pair feeder from the splice point to the second floor server room. Circuits of 6-analog lines were ordered through Integra and ordered through Century Link. Chad Maxa is aware of issues. We are still hounding Century Link trying to get dates for start-up and installation, permit was complete by City on 6/25-Century Link still claims no permit. 6/29/12-No New Update, we know the city issued the permit. 7/06 Boring and cross-connect should be complete by end of next week 7-20-12-Service was to be activated today (7/20/12) at 9:00am	7/20/12	7/20/12	NONE	\$0	N/A	
41	6/22/12	4) DESIGN ISSUE / IMPACT	ASI 66 requests that (2) additional card readers be added to doors B136 and B230. Performed work and is documented under change order #5.	6/27/12	8/10/12	0	\$2,270	5	10
52	9/7/12	3) CONTRACTOR ISSUE / IMPACT	1.) Intellix video switches used for classroom AV are not working properly once PC is unplugged-presently Alpha Video is working with manufacturer to determine if it is switcher problem or a design issue. 9/14/12-believe switcher is fine and issue is with Smart projector language, preparing for meeting w/Tierney through Chad Meeting set for 9/21/12 2.) Software written for tie to lighting controls does not work properly. Alpha is currently working with Extron to re-write the software-9/13/12 changed communication from bi-directional to unidirectional per Encilium requests-waiting to here from lighting control contractor if that fixed it. Per Encilium-program seems to have resolved issues-verified by Encilium on 9/17/12-this is closed. 3.) Doors cannot operate independantly by reader swipe at Doors A06.2, A10.2, B17.2, B13.3, B13.6, B06.1, and (2) exterior cafeteria doors because doors share a power supply. Writing an RFI to TSP today to clarify situation. Also, notified Pat M w/JE Dunn of the situation. 9/14/12 No answer yet from TSP RFI came back 9/21/12	9/26/12	9/24/12				
53	9/14/12	3) CONTRACTOR ISSUE / IMPACT	In reference to Line item 52, ASI, Alpha Video, TSP, and the Schoold district met today at 1:00pm to discuss the process of getting items resolved-next update meeting 9/26/12						
54	9/21/12	3) CONTRACTOR ISSUE / IMPACT	Meeting set 9/24 at 3:00pm on site with Tierney and Alpha to look at Smart projector and switcher-Tierney to represent Smart-troubleshoot to see if there is compatibility issues. 9/24 meeting determed that Projector is issue-not Intellix.	9/26/12	9/24/12				
55	9/28/12	3) CONTRACTOR ISSUE / IMPACT	9/28/12-Alpha is on-site today trying to resolve paging issues/levels in rooms. Next status meeting is set for 9/27/12 to see progress	9/27/12					
56	10/5/12	2) CLIENT ISSUE / IMPACT	V-Brick cannot be tested because Comcast has not delivered cable boxes.	10/19/12					

# Intermediate District 287

## *Weekly Risk Report*

October 5, 2012

Project Name: <b>North Education Center</b>	Risk Rating: <u>1.0</u>
Project ID: <b>1/0/1900</b>	Percent Complete: <u>100%</u>
Contractor: <b>All Systems Installation</b>	Overall PM Risk Satisfaction: <u>10.0</u>
Project Type: <b>General Construction</b>	Risks: <u>9</u>
Award Method: <b>RFP - PIPS Best Value</b>	Risks Unresolved: <u>2</u>
	Risks resolved but no Change Order: <u>3</u>

### Cost Analysis

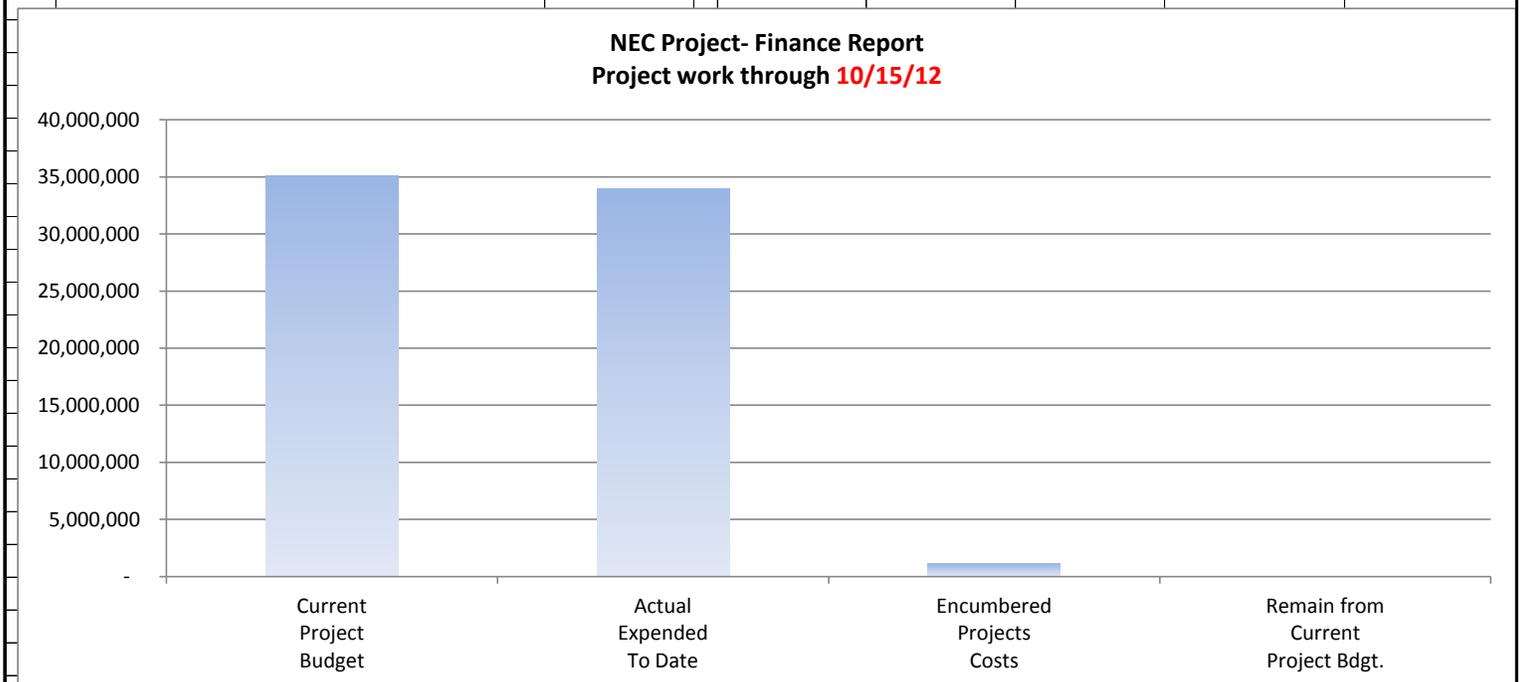
### Schedule Analysis

Allocated Funds: <u>\$1,800,000</u>	Notice to Proceed Date: <u>8/26/2011</u>
Awarded Cost: <u>\$1,562,722</u>	Original Completion Date: <u>8/23/2012</u>
Potential Cost Increases: <u>\$13,715</u>	Potential Project Delays: <u>0</u>
Potential Final Cost: <u>\$1,590,152</u>	Potential Completion Date: <u>8/23/2012</u>
Actual Cost Increases: <u>\$13,715</u>	Actual Project Delays: <u>0</u>
<b><u>Actual Final Cost: \$1,576,437</u></b>	<b><u>Actual Completion Date: 08/23/12</u></b>
Percent Increase in Cost: <u>0.9%</u>	Percent Delayed: <u>0.0%</u>
Contractor Change Order Rate: <u>0.0%</u>	Contractor Delay Rate: <u>0.0%</u>
Non-Contractor Change Order Rate: <u>0.9%</u>	Non Contractor Delay Rate: <u>0.0%</u>

Project Schedule Analysis	Total Number of Risks	Potential Schedule Impacts	Potential Cost Impacts	Actual Schedule Impacts	Actual Cost Impacts
1) NO RISKS	45	0	\$ -	0	\$ -
2) CLIENT ISSUE / IMPACT	2	0	\$ -	0	\$ 8,605
3) CONTRACTOR ISSUE / IMPACT	3	0	\$ -	0	\$ -
4) DESIGN ISSUE / IMPACT	4	0	\$ -	0	\$ 5,110
5) UNFORESEEN IMPACT	0	0	\$ -	0	\$ -
	<b>9</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$13,715</b>

ISD 287							
NEC Project- Finance Report:							
(thru 10/15/12)							
Crs	Category	Original Project Budget	Approved Contingency Use	Current Project Budget	Actual Expended To Date	Encumbered Projects Costs	Remain from Current Project Bdgt.
000	Financing Costs	-	-	-	349,281	-	(349,281)
500	Land Purchase	1,175,000	-	1,175,000	1,182,400	-	(7,400)
500	Construction Cost	29,049,002	* 1,359,906	30,552,110	29,649,792	822,582	79,736
501	Design & Consultant Fees	2,208,411	-	2,065,209	1,876,884	188,324	0
502	Owner Administrative Costs	311,066	-	311,066	239,349	-	71,717
503	Furnishings, Fixtures & Equipment	998,489	* -	998,489	677,199	113,770	207,521
500	Construction Contingency	1,357,613	(1,359,906)	(2,293)	n/a	-	(2,293)
		35,099,581	-	35,099,581	33,974,906	1,124,675	0

\* transferred \$1,573,750 budget for AllSystems Installation from Course 503 to 500 to more accurately reflect the proper Category of expenditure



**Contingency Use:**

Description	Amt.	To	Aprvl. Date	Approved By
<b>Beginning Balance</b>	<b>1,357,613</b>			
- Tree removal for site prep	\$ 3,150	Doboszanski & Sons	9/23/2010	Admin
- Site fencing	11,800	Hansen Bros. Fence	4/19/2011	Committee
- Soil correction- Phase I	36,570	Doboszanski & Sons	4/28/2011	Comm/Board
- Hydrant removal- east side	2,486	Doboszanski & Sons	4/28/2011	Admin
- AIA Chg Ordr 1- sewer pipe size	2,886	JE Dunn	7/19/2011	Admin
- AIA Chg Ordr 2- door revisions	2,145	JE Dunn	7/19/2011	Admin
- AIA Chg Ordr 3- allow. items 1 & 2	7,788	JE Dunn	7/19/2011	Admin
- AIA Chg Ordr 4- electr. revisions	(2,405)	JE Dunn	7/19/2011	Admin
- AIA Chg Ordr 5- kitchen exhaust	(2,300)	JE Dunn	7/19/2011	Admin
- AIA Chg Ordr 6- ductwork revisions	(1,437)	JE Dunn	7/19/2011	Admin
- AIA Chg Ordr 7- changes in ERU #2	38,189	JE Dunn	7/28/2011	Comm/Board
- AIA Chg Ordr 8- pipe chase/cabling	1,621	JE Dunn	8/10/2011	Admin
- AIA Chg Ordr 9- door change	1,551	JE Dunn	8/10/2011	Admin
- Demountable wall upgrade	664,409	Hendricksen PSG	8/25/2011	Comm/Board

- AIA Chg Ord'r 10- enlarge frames		10,417	JE Dunn		8/25/2011	Committee
- AIA Chg Order 11- Fin tube radiation/pumps		(6,923)	JE Dunn		9/14/2011	Admin
- AIA Chg Order 12- VAV/HVAC ducts		24,795	JE Dunn		9/20/2011	Committee
- AIA Chg Order 13- Sanitary/Storm Sewer		14,738	JE Dunn		9/20/2011	Committee
- AIA Chg Order 14- Fire Alarm requirements		11,058	JE Dunn		9/20/2011	Committee
- AIA Chg Order 15- HVAC Duct Revisions		5,476	JE Dunn		9/14/2011	Admin
- AIA Chg Order 16- MN Health Dept. revisions		3,258	JE Dunn		9/14/2011	Admin
- AIA Chg Order 17- Voids at geothermal wells		63,789	JE Dunn		9/22/2011	Comm/Board
- AIA Chg Order 18- Upsize transformer cable		32,241	JE Dunn		9/22/2011	Comm/Board
- AIA Chg Order NA- Floor level testing		3,283	Braun Intertec		10/18/2011	Admin
- AIA Chg Order 19- Add conduit & wire		6,678	JE Dunn		10/18/2011	Admin
- AIA Chg Order 20- Add flashing to transition		7,719	JE Dunn		10/18/2011	Admin
- AIA Chg Order 21- Parapet walls in areas B1 & B2		6,849	JE Dunn		11/15/2011	Admin
- AIA Chg Order 22- Insulation of kitchen exhaust duct		16,805	JE Dunn		11/15/2011	Committee
- AIA Chg Order 23- Sensors removed from rooms		(1,095)	JE Dunn		11/15/2011	Admin
- AIA Chg Order 24- Wet conditions from summer (soil)		25,437	JE Dunn		11/15/2011	Comm/Board
- AIA Chg Order 25- Structural wall changes		1,651	JE Dunn		11/15/2011	Admin
- AIA Chg Order 26- Door hardware changes		1,359	JE Dunn		11/15/2011	Admin
- AIA Chg Order 27- Disconnect changed to fused		710	JE Dunn		11/15/2011	Admin
- AIA Chg Order 28- Delete outlet/change circuiting		940	JE Dunn		11/15/2011	Admin
- AIA Chg Order 29- Change light in room B115		670	JE Dunn		11/15/2011	Admin
- AIA Chg Order 30- Add mesh to terazzo		1,205	JE Dunn		11/15/2011	Admin
- AIA Chg Order 31- Adt'l. rough in for voice/data		6,184	JE Dunn		11/15/2011	Admin
- AIA Chg Order 32- Misc. changes to mechanical room		102,262	JE Dunn		12/20/2011	Comm/Board
- AIA Chg Order 33- Code adjustments at exterior wall		793	JE Dunn		1/3/2012	Admin
- AIA Chg Order 34- Restroom layout revision on 3rd floor		789	JE Dunn		1/3/2012	Admin
- AIA Chg Order 35- Re-route storm drain along 55th Ave.		8,572	JE Dunn		1/3/2012	Admin
- AIA Chg Order 36- Corrective work on North parking lot		8,238	JE Dunn		1/3/2012	Admin
- AIA Chg Order 37- Added blinds in Literacy Lab		2,843	JE Dunn		2/7/2012	Admin
- AIA Chg Order 38- Changes to ERU3 to allow access		6,516	JE Dunn		2/7/2012	Admin
- AIA Chg Order 39- Kitchen exhaust operating changes		1,741	JE Dunn		2/7/2012	Admin
- AIA Chg Order 40- Door hardware for B210.1		896	JE Dunn		2/7/2012	Admin
- AIA Chg Order 41- Change in damper size		1,434	JE Dunn		2/7/2012	Admin
- AIA Chg Order 42- Change Operating/Reset function		8,131	JE Dunn		2/7/2012	Admin
- AIA Chg Order 43- Changes to jamb details & stairways		2,015	JE Dunn		2/29/2012	Admin
- AIA Chg Order 44- BAS tied into emergency power system			JE Dunn		Removed	Committee
- AIA Chg Order 45- Outlet additions in Data Closets		4,884	JE Dunn		2/29/2012	Admin
- AIA Chg Order 46- Relocation of lights & ext. color change		731	JE Dunn		2/29/2012	Admin
- AIA Chg Order 47- Hydronic filters installed during constr.		16,704	JE Dunn		3/20/2012	Committee
- AIA Chg Order 48- Changes to racks in main server room		5,374	JE Dunn		2/29/2012	Admin
- AIA Chg Order 49- Adt'l. outlet for 2nd refrigerator		850	JE Dunn		2/29/2012	Admin
- AIA Chg Order 50- Elimination of circulation pumps in ERU		(2,483)	JE Dunn		2/29/2012	Admin
- AIA Chg Order 51- Deletion of fire extinguishers not needed		(1,329)	JE Dunn		2/29/2012	Admin
- AIA Chg Order 52- Changes to control heat pump sequence		694	JE Dunn		2/29/2012	Admin
- Henricksen CO 1- Tempered Glass on 6 doors for nap rooms		894	Henricksen		2/29/2012	Admin
- AIA Chg Order 53- Power electronic faucets		11,923	JE Dunn		3/20/2012	Committee
- AIA Chg Order 54- Emergency power to both elevators		17,483	JE Dunn		3/20/2012	Committee
- AIA Chg Order 55- Steel detail revisions at stairs		8,191	JE Dunn		3/31/2012	Admin
- AIA Chg Order 56- Roof drains in lower canopy		6,012	JE Dunn		3/31/2012	Admin
- AIA Chg Order 57- Code issues for washer and dryer		3,068	JE Dunn		3/31/2012	Admin
- AIA Chg Order 58- Add cooling coil condensate piping		6,966	JE Dunn		3/31/2012	Admin
- AIA Chg Order 59- Ceiling revision in Rooms C103/C104		1,128	JE Dunn		3/31/2012	Admin
- AIA Chg Order 60- Change flooring in Room B233		1,205	JE Dunn		3/31/2012	Admin
- AIA Chg Order 61- Metal mesh panels main stairs		725	JE Dunn		3/31/2012	Admin
- ASI CO 01- gym A/V system \$8,605 (not from conting. fund)		-	All Systems Installation		4/30/2012	Admin
- ASI CO 02- power for NAC Expanders		2,422	All Systems Installation		4/30/2012	Admin

- AIA Chg Order 62- Change floor finish, change wall paint		8,640	JE Dunn		4/30/2012	Admin
- AIA Chg Order 63- Relocate exit signs		4,592	JE Dunn		4/30/2012	Admin
- AIA Chg Order 64- Door jamb revisions at firewall		4,311	JE Dunn		4/30/2012	Admin
- AIA Chg Order 65- Front canopy modifications		741	JE Dunn		4/30/2012	Admin
- AIA Chg Order 66- Stair stringer modifications		1,087	JE Dunn		4/30/2012	Admin
- AIA Chg Order 67- Front canopy vent panels		1,576	JE Dunn		4/30/2012	Admin
- AIA Chg Order 68- Redundant fiber optic		10,753	JE Dunn		5/15/2012	Committee
- AIA Chg Order 69- Conduit for adtl. cameras		9,886	JE Dunn		4/30/2012	Admin
- Henrickson CO 2- Cut 30 locations for 2nd swith box		1,125	Henrickson		5/31/2012	Admin
- AIA Chg Order 44 Rev- emergency power supplie tie-in		12,964	JE Dunn		6/21/2012	Committee
- AIA Chg Order 70- Cr on approved CO #44		(10,668)	JE Dunn		5/31/2012	NA
- AIA Chg Order 71- Ceiling height revisions		9,297	JE Dunn		5/31/2012	Admin
- AIA Chg Order 72- Addition of 20a circuit		709	JE Dunn		5/31/2012	Admin
- AIA Chg Order 73- Soil correction @ SE entrance		3,264	JE Dunn		5/31/2012	Admin
- AIA Chg Order 74- Added fire alarm devices		3,095	JE Dunn		5/31/2012	Admin
- AIA Chg Order 75- Soil correcton @ front parking area		3,939	JE Dunn		5/31/2012	Admin
- AIA Chg Order 76- Change fence bottom		3,024	JE Dunn		5/31/2012	Admin
- AIA Chg Order 77- Masonry corrections		3,169	JE Dunn		6/30/2012	Admin
- AIA Chg Order 78- Remove heating coil & pipe, add pipes		8,420	JE Dunn		6/30/2012	Admin
- AIA Chg Order 79- Performance data & BAS controls		2,007	JE Dunn		6/30/2012	Admin
- AIA Chg Order 80- Added power to glycol pump		1,547	JE Dunn		6/30/2012	Admin
- AIA Chg Order 81- Front canopy changes		3,346	JE Dunn		7/31/2012	Admin
- AIA Chg Order 82- Soil correction SW corner		7,473	JE Dunn		7/31/2012	Admin
- AIA Chg Order 83- Starter disconnects		5,047	JE Dunn		7/31/2012	Admin
- AIA Chg Order 84- Ramp to sidewalk		1,197	JE Dunn		7/31/2012	Admin
- AIA Chg Order 85- Add more drop-off sidewalk in front bldg.		5,484	JE Dunn		7/31/2012	Admin
- AIA Chg Order 86- Adjust bases for planters in patio area		2,083	JE Dunn		7/31/2012	Admin
- AIA Chg Order 88- Add lighting in kitchen per Heath Inspector		957	JE Dunn		9/30/2012	Admin
- AIA Chg Order 89- Relocation of HC card reader (3)		783	JE Dunn		9/30/2012	Admin
- AIA Chg Order 90- Trustwater System relocation (TSP)		5,682	JE Dunn		9/30/2012	Admin
- AIA Chg Order 92- Numerous Electrical Issues, Negotiated		8,320	JE Dunn		9/30/2012	Admin
- ASI CO 03- Mounting of adtl. power for adtn. expander		418	All Systems Inc.		9/30/2012	Admin
- ASI CO 04- Two additional Card - aders B136, B230		2,270	All Systems Inc.		9/30/2012	Admin
<b>Total approved to-date</b>	<b>1,359,906</b>					
- AIA Chg Order 87- Street paving to correct slope		15,919	JE Dunn			Committee
- AIA Chg Order 91- Generator exhaust alterations		13,272	JE Dunn			Committee
<b>Total pending to-date</b>	<b>29,191</b>					
<b>10/15/12 - Balance</b>	<b>\$ (31,484)</b>					

## StarTribune

### New school holds a few green lessons

Article by: DON JACOBSON  
Special to the StarTribune  
September 27, 2012 - 5:42 PM

When Intermediate School District 287 decided to construct its own school in New Hope, it had a lengthy wish list of "green" features and cutting-edge education designs.

The district - which serves 4,675 special-education students among its total student body of 10,098 -- had thought about renting and rehabbing the former Hosterman Middle School to make it suitable for some of its special-ed kids to be taught there.

But in the end, district officials decided to raze the 1962 structure and start afresh with the new \$30 million North Education Center, which opened this school year sporting myriad innovative design and energy efficient features.

The effort has caught the attention of education facility planners, builders and managers across the state and was featured prominently at a panel discussion at last week's Impact 2012 conference put on by the U.S. Green Building Council's Minnesota chapter.

District 287 Facilities Director Tom Shultz helped lead the effort to build the new school when it became apparent that Hosterman couldn't be repaired at a reasonable cost. Minnetonka-based TSP Architecture, construction contractors and school officials worked for four years to complete the three-story NEC project.

The pride in the accomplishment was evident during a tour of the newly opened facility last week, which was abuzz with students checking out their new school.

"What is really unique about this new building is its adaptability," Shultz said. "Teaching methods change, kids' needs change. Why shouldn't you have a school that's adaptable to them? That was 'job one' -- get a building that would meet the students' needs rather than the other way around."

ISD 287 used to lease space that was "horrific," he added.

"The staff had to spend half their time worrying about the facilities and managing them, taking care of things they shouldn't have to take care of."

All that has changed with the NEC, which was largely financed by federal school bonds made available through the American Recovery and Reinvestment Act of 2009.

Probably the facility's most striking feature is its system of removable (or "demountable") walls, which allow educators to adjust the size of classrooms to suit the changing needs of the students.

"A 900-square-foot classroom doesn't always work well for special-needs kids, depending on their disabilities," Shultz said. "So we've set up small classrooms and break-out rooms, for instance, for kids with behavior issues, using the demountable wall systems."

The walls are designed to be sustainable, easily assembled and taken apart, plus they're pleasing to the eye, he said.

But because there are no permanent walls to attach traditional radiators, the NEC's heating, ventilation and air conditioning system is also cutting-edge for a school setting with the use of "active chilled beams."

While most commercial and school buildings cool spaces by delivering air cooled before it flows into them, chilled-beam systems instead use chilled water pipes in modular units mounted to ceilings, transferring heat primarily via convection rather than radiation.

They're energy-savers because they can deliver cooling directly into spaces, eliminating the need for "maximum air delivery" and thus cutting the need for energy-sucking ventilation fans.

On cold days, meanwhile, hot water can be run through the ceiling modules instead to provide heating, and the flows can be precisely controlled according to each room's needs.



The North Education Center in New Hope features state-of-the-art building features and techniques, including sensory room with soothing light and sounds.

Bmce Bisping. Star Tribune

"On a sunny winter day, classrooms facing south are going to get toasty warm, but the ones facing north are not going to get the solar heat gain," Shultz said. "So some active beams will be used for cooling and others for heating at the same time."

Another green feature of the school is its energy-efficient low-voltage lighting systems, which produces twice as much light for the same amount of power expended on "line voltage" incandescent lamps.

The technology also allows teachers to control each room's lighting to fit the needs of their students. "Some kids don't do well with fluorescent lights," Shultz noted.

Don Jacobson is a St. Paul-based freelance writer.

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