

CHANGE ORDER SUMMARY  
 CITY OF NORMAN  
 CLEVELAND COUNTY, OKLAHOMA

CHANGE ORDER NO.: 07

DATE: 07-12-18

CONTRACT NO.: K-1617-56

SUBMITTED BY: Steve Shank

PROJECT: Westwood Family Aquatic Center

CONTRACTOR: W.L. McNatt

217 East Sheridan

Oklahoma City, OK 73104

ORIGINAL CONTRACT AMOUNT \$ 10,167,000.00

Increase this change order 14 Calendar days

DESCRIPTION	(DECREASE)	INCREASE
Change Order #1	---	\$ 8,729.00
Change Order #2	(\$ 22,480.42 )	---
Change Order #3	(\$ 9,848.32 )	---
Change Order #4 – delay days	---	---
Change Order #5	(\$ 7,139.81 )	---
Change Order #6	(\$ 4,998.27 )	---
Change Order #7 – delay days	---	---

NET CHANGE

\$ ( 35,737.82 )

REVISED CONTRACT AMOUNT

\$ 10,131,262.18

CONTRACTOR: 

DATE: 7-13-18

ENGINEER: 

DATE: 7-12-18

PROJECT MGR.: 

DATE: 7-13-18

CITY ATTORNEY: 

DATE: 7/13/18

ACCEPTED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

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CHANGE ORDER DETAIL  
CHANGE ORDER NO. 7  
City of Norman  
Cleveland Co., Oklahoma

Project Name: Westwood Family Aquatic Center

Project Manager: Jud Foster

Project Account Number: 051-0404-451.6101

Project Number: NFB-018

Contract No.: K-1617-56

Address/Phone:

201-C West Gray Street

Norman, OK 73069

(405) 366-5472

- A. Change Orders or addenda to public construction contracts of One Million Dollars (\$1,000,000.00) or less shall not exceed a fifteen percent (15%) cumulative increase in the original contract amount.
- B. Change orders or addenda to public construction contracts of over One Million Dollars (\$1,000,000.00) shall not exceed the greater of One Hundred Fifty Thousand Dollars (\$150,000.00) or a ten percent (10%) cumulative increase in the original contract amount.
- C. Change orders or cumulative change orders which exceed the limits of subsection A or B of this section shall require a readvertising for bids on the incomplete portions of the contract.
- D.
1. All materials with cost per item;
  2. Itemization of all labor with number of hours per operation and cost per hour;
  3. Itemization of all equipment with the type of equipment, number of each type, cost per hour for each type, and number of hours of actual operation for each type;
  4. Itemization of insurance cost, bond cost, social security, taxes, workers' compensation, employee fringe benefits and overhead cost; and
  5. Profit for the contractor.
- E. 1. **If a construction contract contains unit bid pricing, and the change order pertains to the unit bid price, the change order will not be subject to subsection A or B of this section.**
2. When the unit price change does not exceed Ten Thousand Dollars (\$10,000.00), the unit price change order computation may be based on an acceptable unit price basis in lieu of cost itemization as required in paragraphs 1,2,3,4 and 5 of subsection G of this section.
- F. Alternates or add items bid with the original bid and contained in the awarded contract as options of the awarding public agency shall not be construed as change orders under the provisions of the Public Competitive Bidding Act of 1974.

## Westwood Family Aquatic Center Project Delay Log

Dates		Delay Description	Days Lost	Notes	Rain Amount (in.)
10/27/16 - 11/3/16		Buried Cox Communication Lines	8	Cox communications was notified to have the existing buried cables that needed to be relocated on 10/12/16. As of 10/27/16, Cox had not been on site and the excavators had gone as far as they could until the Cox Cables were removed. Cox completed the cable relocation over night of 11/3/16. Critical Path was to remove the existing earth berm located on the South / South West sides of the site. This scope of work had to be completed in order to get the site at the lap pool to subgrade, to get Filter Building Pad to sub grade elevation, complete the excavation of the lap pool deep end, and complete the structural fill in the deep end of the lap pool. This scope of work out of the control of W.L McNatt & Company.	
				Taking weather out of the equation, the dirt contractor could have started on 11/4/16 removing the earth berm and continuing with the remaining excavation of the lap pool. The earthwork at the dive tower was completed on 11/14/16. Work was performed over the weekend on 11/5 & 11/12. Eight utility delays and three weather days. Progress on non-critical operations does not mitigate delay.	
10/27/2016	Thursday			Cox Cable prevented critical excavation work completion at Lab Pool	
10/28/2016	Friday			Standing water in the deep end, Sump pumps used to dewater. Cox Cable prevented critical excavation work completion at Lab Pool which is the critical path. Progress on non-critical operations does not mitigate delay.	
10/29/2016	Saturday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	
10/30/2016	Sunday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	
10/31/2016	Monday			Cox Cable prevented critical excavation work completion at Lab Pool which is the critical path. Hit water at 13 feet. Progress on non-critical operations does not mitigate delay.	



11/1/2016	Tuesday			Cox Cable prevented critical excavation work completion at Lab Pool which is the critical path. Contractor removed soil in the deep end to expose the extent of the water issue. Progress on non-critical operations does not mitigate delay.	
11/2/2016	Wednesday			Standing water in the deep end, Sump pumps used to dewater. Cox Cable prevented critical excavation work completion at Lab Pool which is the critical path. Progress on non-critical operations does not mitigate delay.	
11/3/2016	Thursday	Rain / Mud (Rain, Drizzle, Overcast, High Humidity)	<u>1</u>	Critical Path was to continue excavation of the Lap Pool and bring in select fill for the pool sub grade. Due to rain over night, site conditions were too muddy and off site select fill quarry pit was closed due to weather. CEC noted that the site conditions were too wet to perform density tests.	0.44
10/28/2016	Friday	Lap Pool Ground Water	To be determined	Excavation on the Lap Pool: Ran into standing water at approximately 13' below grade, about 2" above finish grade for the bottom of the pool. Another 36" will be excavated.	See above
11/4/2016	Friday	Muddy (Drizzle, Overcast, High Humidity)	1	Critical Path was to continue excavation of the Lap Pool and bring in select fill for the pool sub grade. Due to yesterdays rain, site conditions were too muddy and off site select fill quarry pit was closed due to weather. CEC noted that the site conditions were too wet to perform density tests. CEC report for 11/4/16 states that "due to moisture content of the soil, contractor was unable to work on the deep end of the new pool" this is a delay to the critical path. Densities pulled were on work already in place, not on new work that was performed. CEC report from 11/5/16 states "contractor spent approx. 4 hours scarifying soil in attempt to dry soil to a acceptable working condition without success". If soil was not acceptable on 11/5/16 then work obviously didn't proceed on previous days.	
11/7/2016	Monday	Rain / Muddy (Rain, Drizzle, Overcast, High Humidity)	<u>1</u>	Critical Path was to continue excavation of the Lap Pool and bring in select fill for the pool sub grade. Due to rain, site conditions were too muddy due to weather. CEC noted that the site conditions were too wet to perform density tests.	0.27 Plus
11/8/2016	Tuesday	Muddy (Drizzle, Overcast, High Humidity)	1	Critical Path was to continue excavation of the Lap Pool and bring in select fill for the pool sub grade. Due to yesterdays rain, site conditions were too muddy due to weather. CEC noted that the site conditions were too wet to perform density tests. Rain/Mist occurred after 12pm on 11/7/16, with 100 % relative humidity and overcast skies, not allowing for drying to occur overnight. CEC was unable to pull tests which is a delay to the critical path. 3rd Party Testing is not required to verify that muddy conditions prevented work.	



11/27/2016	Sunday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	
11-28-16	Monday			At approximately 12:45 we received confirmation from City that trenches was disinfected properly and safe to return to trenches to work. Capri began shortly after 1:00 prepping trenches and getting them back to condition they had them at as of 11-22-16, 11:00 a.m. to continue running under drain.	
11-29-16	Tuesday			Capri was able to begin continue running under drain.	
12/2/16 (Night) & 12/3/2016 - 12/5/16		Rain / Muddy (Rain, Drizzle, Overcast, High Humidity)	3	Critical Path was to continue with the main drains in the lap pool, under drains in the lazy river, foundations for the Filter Building, parking lot stabilization, & site grading/removal of stock piled soils. Due to Weather, site conditions were too muddy to perform required work. Rain began at 8:00 pm on Friday 12/2/16 and lasted until Sunday 12/4/16. 1.10 inches of rain fell preventing work from being done on the project. With local weather forecast, there was no need to schedule work when we knew it was going to be raining all weekend.	1.1"
12/3/2016	Saturday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	
12/4/2016	Sunday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	
12/5/2016	Monday			Unable to excavate trenches due to mud. Norman received 1.1" of rain throughout the weekend	
12/16/2016	Friday	Rain / Mist	<u>1</u>	We have completed the installation of the main drains in the Lap pool. We were going to start the installation of the plumbing on Friday the 16th. We were unable to start the plumbing due to the "mist" as stated in the weather report from the Norman/Max Westheimer airport. Capri was unable to prime or glue any piping during these conditions.	
12/17/2016, 12/18/2016, & 12/19/2016		Extreme Temperatures	3	We were unable to start the plumbing due to the extreme cold temperatures. Capri was unable to prime or glue any piping during these conditions. Temperatures were well below freezing which prevented Capri from gluing any pipe. This directly prevented us from progressing on the critical path. With local weather forecast, there was no need to schedule work when we knew it was going to be below freezing all weekend.	
12/17/2016	Saturday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	
12/18/2016	Sunday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	

12/19/2016	Monday			Unable to prime and glue main drain piping at Lap Pool due to the low temps.	
12/23/2016	Friday	Rain / Mist	1	It has been raining off and on since 7:20 this morning. Capri has sent their crew home and we have a lost day due to the rain. Capri is unable to prime or glue any piping during these conditions so they sent their crews home. Crews cannot stand around hoping that the weather improves. Temperature was not a factor, just moisture.	
12/25/2016	Sunday	Rain / Mist	1	Rain began at 3:30 am and last recorded rain was at 3:30 pm. Due to the rain and high humidity Capri was unable to prime or glue any piping during these conditions. Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	.10"
1/3/17- 1/8/17		Snow/Below Freezing Temperatures	6	Tuesday 1/3/17 - Temperatures were below freezing until after 1 pm preventing Capri from gluing pipe, delaying critical path. Wednesday 1/4/17- Temperatures were below freezing until after 1 pm preventing Capri from gluing pipe, delaying the critical path. Thursday 1/5/17- Temperatures were below freezing all day, preventing Capri from gluing pipe, delaying the critical path. Friday 1/6/17 - Snow fell overnight and Temperatures remained below freezing all day. Preventing Capri from gluing pipe or setting batter boards on the Lap Pool. Mallett Plumbing was also unable to dig trenches and start plumbing on Bath House, all delaying the critical path. Saturday 1/7/17 - Temperatures were below freezing, Snow also remained covering the site. Preventing Capri from gluing pipe and setting batter boards on the Lap Pool. Mallett Plumbing was also unable to dig trenches and start plumbing on the Bath House, delaying the critical path. Sunday 1/8/17 - Temperatures were below freezing until after 10 am, Snow began to melt from site causing site to be extremely muddy. Preventing Capri from gluing pipe and setting batter boards on the Lap Pool. Mallett Plumbing was also unable to dig trenches and start plumbing on the Bath House, delaying the critical path. Work was done on items outside of the critical path that weren't dependent on the weather. With local weather forecast, there was no need to schedule work when we knew conditions were not feasible all weekend.	Snow
1/3/2016	Tuesday			Temperatures were well below freezing which prevented Capri from gluing any pipe. This directly delayed the critical path. Progress on non-critical operations does not mitigate delay.	
1/4/2016	Wednesday			Lost day, too cold to glue at lap pool floor returns	
1/5/2016	Thursday			Lost day due to cold and snow. No work today on site	
1/6/2016	Friday			3 inches of snow, No work on site	
1/7/2016	Saturday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	

1/8/2016	Sunday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	
1/13/17- 1/16/17		Below Freezing Temperatures/Ice/Rain/Mud	4	Friday 1/13/17 -Temperatures were below freezing all day with on and off light freezing fog/precipitation which prevented Capri from gluing pipe and Turning Point from setting forms on the Filter Building and Lap Pool. Saturday 1/14/17 Temperatures were below freezing all day with .08 inches of freezing rain/ice which prevented Capri from gluing pipe and Turning Point from setting forms on the Filter Building and Lap Pool. Sunday 1/15/17- Rain lasted on and off all day resulting in 2.55 inches of precipitation at the site preventing Turning Point from setting forms at the Filter Building and Lap Pool. Monday 1/16/17- Rain of .07 inches occurred overnight combined with 2.55 inches of rain from the day before causing the site to be extremely muddy and prevented Mallett Plumbing from starting plumbing on the bathhouse, Capri from continuing piping, and Turning Point from setting forms on both the Filter Building and the Lap Pool. With local weather forecast, there was no need to schedule work when we knew conditions were not feasible all weekend.	Ice, 2.70" rain
1/13/2016	Friday			Temperatures were well below freezing all day with on and off light freezing fog / precipitation which prevented Capri from gluing any pipe. This directly delayed the critical path. Progress on non-critical operations does not mitigate delay. Covered all Under Drain line gravel with fabric around perimeter of pool for silting purposes due to incoming rain. Relocated all 3 pumps and added rock around buckets to pump from. We placed pumps under both main drains in deep end of lap and placed one pump at SW corner of the deep end, rerouted hoses and water tight all extension cord connections.	
1/14/2016	Saturday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	
1/15/2016	Sunday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	



1/16/17- 1/23/17		Flooding	7	<p>Friday 1/13/17- In anticipation of the incoming weather, Capri and WLM took preventative measures to protect the site. We placed multiple water pumps in the deep end of the lap pool to dewater as the weather moved through. Sunday 1/15/17- Capri was on site Sunday morning to check on the pumps and verify operation of the pumps. At they them all pumps were working. The amount of rain (2.61 inches) in such a short amount of time flooded the deep end of the lap pool and overtook our water pumps causing the GFCI to trip. This caused the completed main drains and piping to float from their trenches. Monday 1/16/17- The damage was documented with pictures and the dewatering process began. Tuesday 1/17/17- Dewatering continued in the lap pool deep end Wednesday 1/18/17- The main drains and piping were determined not to have cracked or lose pressure allowing them to be reset in place, work to reset these began in the afternoon. Thursday 1/19/17- Capri continued work on resetting the main drains and piping, still dealing with extremely muddy conditions. Friday 1/20/17- Capri continued and finished setting main drains and piping, backfilling with gravel. Monday 1/23/17- Capri was able to proceed with filter fabric as scheduled on 1/16/17 without the extreme rain and damage to work they had completed prior. Without work being preformed as scheduled, the critical path was delayed.</p>	Flooding / Damage to work in place
1/16/2016	Monday			Norman had 2.61" of rain over the weekend. We had about 3' of water in the deep end of the Lap pool that floated the main drains and piping. The GFI had tripped and we lost power some time on Sunday. Capri had employees on site Sunday morning to check on the pumps. The 2 main drains in the 4' depth area also floated along with a portion of pipe.	
1/17/2016	Tuesday			Worked on deep end of the main drains and piping that floated in the lap pool. Excavated out the mud from the deep end due to the rain. (1/17/17 was the planned date to install rock prior to the weather / power event)	
1/18/2016	Wednesday			Worked on deep end of the main drains and piping that floated in the lap pool. Excavated out the mud from the deep end due to the rain	
1/19/2016	Thursday			Finished resetting pipes and main drains in deep end of lap pool. Final grade deep end. Replaced all dewatering pumps in deep end. Final grade shallow end of lap pool to get ready for fabric and rock.	
1/20/2016	Friday			Finished resetting pipes and main drains in deep end of lap pool. Final grade deep end. Replaced all dewatering pumps in deep end. Final grade shallow end of lap pool to get ready for fabric and rock.	
1/21/2016	Saturday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	

1/22/2016	Sunday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	
1/23/2016	Monday			Installed fabric and grade stakes to rock the lap pool	
1/24/2016	Tuesday			Finished installing fabric and grade stakes to rock the lap pool.	
1/25/2016	Wednesday			Strip bracing at all main drains in the lap pool. Convey rock for lap pool floor. (Stone placement was previously scheduled for 1/17/17)	
2/14/2016	Tuesday	Rain	1	Rain began falling on 2/13/17 around 5:30 pm and lasted until 2/14/17 at 6:00 pm resulting in 2.46 inches of rain. The critical path was to continue the forming of lap pool walls, and the forming of lazy river slabs but both were unable to proceed with the amount of rain received.	2.46 in
2/20/2017	Monday	Rain	1	Rain began falling on 2/19/17 around 10:00 pm and lasted until 2/20/17 at 6:00am resulting in 1.94 inches of rain. The critical path was to continue forming the lap pool walls, and place rebar in the lazy river slabs with both unable to proceed due to the amount of rain received. Entire day was spent dewatering the site.	1.94 in
3/29/17-3/30/17	Wednesday-Thursday	5.35 inches Rain	2	Rain began falling on 3/28/17 around 10:00pm and lasted until 3/29/17 at 6:00 am resulting in 5.35 inches of rain. The critical path was to continue bath house masonry, begin setting trusses at admin building, lap pool walls, site pool plumbing, lazy river walls, rec pool forming of walls, and filter building backfill. We have been continuously dewatering and continue to do so at this time. Future days may be added due to this weather event.	5.35 in
3/29/2017	Wednesday			Spent the entire day dewatering the site from the overnight rain. The rain prevented us from working on critical path items such as bath house masonry, backfilling at the filter building, excavating for pool piping, setting trusses on the admin.	
3/30/2017	Thursday			Again, spent the entire day dewatering the site from the overnight rain. The rain and site conditions prevented us from working on critical path items such as bath house masonry, backfilling at the filter building, excavating for pool piping, setting trusses on the admin.	

3/31/17-4/3/17	Friday-Monday	1.7 inches of Rain	4	<p>With the site saturated from 5.35 inches of rain from 3/28 and 3/29 added with the 1.70 inches on 4/2, the site received 7.05 inches of rain in a 5 day period. This has resulted in continuous dewatering and prevented us from working on critical path items. Friday 3/31- The site was being dewatered and conditions prevented us from backfilling at the filter building, excavating for pool piping, forming/pouring of walls at the lazy river and lap pool, setting trusses on the admin building, and continuing masonry work at the bathhouse. Saturday 4/1- The site was still being dewatered and prevented the backfilling at the filter building, the excavating for pool piping, forming/pouring of lap pool and lazy river walls, setting of trusses at admin, and masonry work at the bathhouse. Sunday 4/2- Rain fell overnight resulting in .97 inches, dewatering was ongoing and this prevented working on backfilling at the filter building, excavating for pool piping, setting trusses at the admin, masonry work at the bathhouse, and forming/pouring of walls at the lazy river and lap pool. Sunday afternoon rain started to fall again amounting in another .73 inches. Bringing the total to 1.70 inches for Sunday 4/2. Monday- 4/2- The site is being dewatered and the conditions prevented us from backfilling at the filter building, excavating for pool piping, setting trusses at the admin, masonry work on the bathhouse, and forming/pouring of walls at the lazy river and lap pools.</p>	1.70 in
3/31/2017	Friday			The site was being dewatered and conditions prevented us from backfilling at the filter building, excavating for pool piping, forming/pouring of walls at the lazy river and lap pool, setting trusses on the admin building, and continuing masonry work at the bathhouse.	
4/1/2017	Saturday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	
4/2/2017	Sunday			Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	
4/3/2017	Monday			1.70 inches of rain fell on Sunday 4/2/17. The site is being dewatered and the conditions prevented us from backfilling at the filter building, excavating for pool piping, setting trusses at the admin, masonry work on the bathhouse, and forming/pouring of walls at the lazy river and lap pools.	
4/14/2017	Friday	2.25 inches of rain	1	Rain began falling on 4/13/17 around 4:30pm and lasted until 11:55pm resulting in 2.25 inches of rain. The critical path was to continue bath house masonry, continue setting trusses at admin and bathhouse, lap pool walls, site pool plumbing, lazy river walls, and filter building backfill. We have been continuously dewatering and continue to do so at this time.	2.25 in



4/21/2017	Friday	1.48 inches of rain	1	Rain began falling on 4/21/17 around 8:00 am and lasted until 4:15 pm resulting in 1.48 inches of rain. The critical path was to continue setting trusses at the admin and bathhouse, continue masonry work at both admin and bathhouse, lap pool walls, site pool plumbing, lazy river walls, filter building foundations, and filter building plumbing. We have been continuously dewatering and continue to do so at this time. Future days may be added due to this weather event.	1.48 in
4/29-4/30/2017	Saturday-Sunday	2.03 inches of rain	2	Rain began falling on 4/29/17 around 4:00 am and lasted until 9:00 pm resulting in 1.94 inches of rain. .09 inches of rain fell on 4/30/17. The critical path was to continue setting trusses at the admin and bathhouse, continue masonry work at both admin and bathhouse, site pool plumbing, lazy river walls, filter building foundations, and filter building slab prep, lazy river ramp footings, and steel setting at bath/admin. We have been continuously dewatering and continue to do so at this time.	2.03 inches of rain
4/29/2017	Saturday	1.94 inches of rain		Rain began falling on 4/29/17 around 4:00 am and lasted until 9:00 pm resulting in 1.94 inches of rain. The critical path was to continue setting trusses at the admin and bathhouse, continue masonry work at both admin and bathhouse, site pool plumbing, lazy river walls, filter building foundations, filter building slab prep, lazy river ramp footings, and steel erection at bath/admin. We have been continuously dewatering and continue to do so at this time.	1.94 inches of rain
4/30/2017	Sunday	.09 inches of rain		Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	.09 inches of rain
5/17/2017	Wednesday	1.58 inches of rain	1	Rain began falling on 5/17/17 around 1:00 am and last until 4:00 am resulting in 1.58 inches of rain. The critical path was to continue working on lazy river plumbing, site pool piping, filter building pump pit, filter building pool piping, lazy river walls, lazy river ramp and bridge and rec pool slab. This work was unable to be performed due to the very wet and flooded site conditions. We were continuously dewatering the site.	1.58 inches of rain

5/19/2017	Friday	.45 inches of rain	1	Rain began falling on 5/18/17 around 5:00 pm and lasted off and on until 4:00 pm on 5/19/17 resulting in .45 inches of rain. This amount of rain with the already saturated site caused the jobsite to shut down. The critical path was to continue working on lazy river plumbing, site pool piping, filter building pump pit, filter building pool piping, lazy river walls, lazy river ramp and bridge and rec pool slab. This work was unable to be performed due to the very wet and flooded site conditions. We are continuously dewatering the site.	.45 inches of rain
7/19/2017	Wednesday	CEC Testing Error	1	CEC took possession of 2 five gallon buckets of red select on Tuesday the 18th. The Atterberg limit tests came back on the 19th with a PI around an 18 or 19. Metco, another testing company was concurrently running tests on the same material for our contractor in regards to another project. Those results came back with a PI below the max of 15 required in the plans and specs. Due to these results from Metco we had CEC and Metco then collect an additional sample of the red select on site and run new tests. The Atterberg limits test results both came back on Friday the 21st with a PI below the max of 15. Due to CEC testing errors our dirt contractor was unable to place the red select for 3 days.	
7/20/2017	Thursday	CEC Testing Error	1	CEC took possession of 2 five gallon buckets of red select on Tuesday the 18th. The Atterberg limit tests came back on the 19th with a PI around an 18 or 19. Metco, another testing company was concurrently running tests on the same material for our contractor in regards to another project. Those results came back with a PI below the max of 15 required in the plans and specs. Due to these results from Metco we had CEC and Metco then collect an additional sample of the red select on site and run new tests. The Atterberg limits test results both came back on Friday the 21st with a PI below the max of 15. Due to CEC testing errors our dirt contractor was unable to place the red select for 3 days.	
7/21/2017	Friday	CEC Testing Error	1	CEC took possession of 2 five gallon buckets of red select on Tuesday the 18th. The Atterberg limit tests came back on the 19th with a PI around an 18 or 19. Metco, another testing company was concurrently running tests on the same material for our contractor in regards to another project. Those results came back with a PI below the max of 15 required in the plans and specs. Due to these results from Metco we had CEC and Metco then collect an additional sample of the red select on site and run new tests. The Atterberg limits test results both came back on Friday the 21st with a PI below the max of 15. Due to CEC testing errors our dirt contractor was unable to place the red select for 3 days.	

8/10/2017	Thursday	Rain	1	Rain fell beginning at 2:15 am on the morning of 8/10/17. The amount of .43 inches has prevented trades to work on scheduled items. The site was too muddy to allow concrete trucks, sand blasting trucks, dump trucks or any other truck on site. This prevented us from being able to remove and replace red select, sand blast the pools, receive rock delivery, or access the site. Work was scheduled to begin on the metal roof fascia metal and metal roof panels. The amount of rain prevented us from working on critical path items and delayed the project.	.43 inches of rain
8/11/2017	Friday	Rain	1	Rain started falling at 2:35 in the morning of 8/11/17. The rain amounted to 2.65 inches in a short period of time. This amount of rain coupled with the rain the night before have accumulated over 3 inches in 2 days. This has left the entire site with standing water. All scheduled tasks were unable to be performed. The sandblasting of the pools was unable to be done, the metal fascia metal and metal roof panes could not be installed, removal and replacing of red select did not happen. This amount of rain prevented us from working on critical path items and have delayed the project.	2.65 inches of rain
8/12/2017-8/14/2017	Saturday-Monday	2.71 inches of rain	3	2.71 inches fell starting at 5:00 am on 8/12/17 and lasted until after 5:00 pm resulting in 2.69 inches of rain. This coupled with the rain from previous days has resulted in over 5.79 inches of rain in less than 5 days. This has left the site inaccessible due to the standing water and extreme muddy conditions. No equipment can operate or move freely on site. The site conditions coupled with the prolonged rain prevented work from continuing on critical path items. The pool deck, metal roofing, pool piping, and site piping could not continue in these conditions. Not being able to work on these items has caused a delay to our critical path.	
8/12/2017	Saturday	Rain		Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	2.69 inches of rain
8/13/2017	Sunday	Rain/Site inaccessible/Mud		Excluding Weekends & Holidays, Requires Conversion of Total Days from Work Days to Calendar Days	.02 inches of rain
8/14/2017	Monday	Rain/Site inaccessible/Mud		The extreme amount of rain in the previous days has left the site inaccessible to trades and work that is on the critical path. With over 5.79 inches of rain over the previous days, the entire day was spent dewatering the site. With so much saturated soil and standing water the pool deck could not be worked on, site piping could not continue, pool piping could not continue, metal roof was not able to commence due to the equipment not being able to maneuver. All of these items are on the critical path and without being able to continue them the project has been delayed.	



8/17/2017	Monday	Rain/Site inaccessible/Mud	1	Rain started falling at 11:00pm on 8/16/17 and lasting for nearly an hour resulting in 1.69 inches of rain. This on top of the 5.79 inches of rain over the past week have resulted in nearly a total of 7.48 inches of rain. This has left the site inaccessible and prevented critical path items from getting completed. The day was spent dewatering with multiple pumps in the manhole, street, and other important areas. The critical path was to continue with site piping, metal roofing at bath/admin building, site grading, and pool deck construction. These items were not able to proceed or begin due to the rain and site conditions.	
8/23/2017	Wednesday	Rain/Site inaccessible/Mud	1	Rain started falling at 8:00pm on 8/22/17 and lasting for nearly 4 hours resulting in 2.51 inches of rain. This on top of over 7 inches of rain in the past 2 weeks. This has left the site inaccessible and prevented critical path items from getting completed. The critical path was to continue with site piping, site grading, pool deck construction, surveying of critical items, and excavating the v-ditch along the roadway. These items were not able to proceed or begin due to the rain and site conditions. The day was spent dewatering with multiple pumps in the manhole, street, and other important areas.	2.51 inches of rain
8/29/2017	Tuesday	Fascia Design Change Initiated by Architect	10	The architect reviewed the fascia metal after it was installed and did not like the oil canning that was taking place. WLM stated that the fascia was installed per the plans and specifications and approved shop drawings. The architect asked for multiple options of how to correct this. The subcontractor suggested adding a stiffener bead horizontally to break up the amount of flat space. It was agreed that this was the option that the owner wanted to move forward with. The delay is to procure new materials and get the metal bent to the approved new design. The critical path will be stopped while this process plays out. None of the metal roofing can be completed while we wait on the material to arrive.	
9/26/2017	Tuesday	Rain/Site inaccessible/Mud	1	Rain began falling at 8:00pm on Monday the 25th. It rained off and on through the morning and all day Tuesday the 26th. Due to the inaccuracies of the Norman Airport weather, it is recorded that over 1 inch of rain fell this day. The constant rain and site conditions prevented the critical path from progressing. This included, site piping, pool structure preparation for painting, pool piping, pool backfill, and pool deck construction. These tasks were stopped and dewatering was being performed. * SEE MESONET WEATHER DATA FOR ACCURATE RAINFALL AMOUNT	≈ 1.00 inch

9/27/2017	Wednesday	Rain/Site inaccessible/Mud	1	Rain continued throughout the night and all day Wednesday the 27th. The airport weather was once again being inaccurate, as over 2.40 inches of rain have fallen in a 48 hour window from 4:00pm on 9/27/17. Again, the critical path was stopped from progressing. The tasks scheduled were pool piping, pool structure preparation for paint, site piping, and pool deck construction. The site was inaccessible due to the rain, and the day was spent dewatering the site. ** SEE MESONET WEATHER DATA FOR ACCURATE RAINFALL AMOUNT	≈1.40 inch
10/4/2017	Wednesday	Rain/Site inaccessible/Mud	1	Rain began at midnight and lasted all day Wednesday the 4th, resulting in 3.35 inches of rain. This amount of rain saturated the site and prevented critical path items from being completed. The tasks scheduled were to complete pool piping and backfill, pool structure preparation for paint, site piping, and pool deck construction. The site was inaccessible due to the rain, and the day was spent dewatering the site.	3.35 inches Rain
10/5/2017	Thursday	Site inaccessible/Mud	1	The rain tapered off around midnight but had dropped 3.35 inches the day before. The site was extremely muddy and completely inaccessible to concrete trucks, bobcats, sky tracks, excavators, or any type of equipment. The tasks scheduled on the critical path were to complete pool piping and backfill, pool structure preparation for paint, site piping, and pool deck construction.	
12/14/2017	Thursday	Electrical Code Issues	4	WLM notified WEAD, ADG, and the Owner over concerns regarding electrical issues not being to code. This notification happened on 12/14/17. WLM tproposed a cost and fix on 12/14/17 to correct the issue that would allow the building to pass inspection and bring everything to code. The electrician would be delayed from getting a final inspection until the code issues were fixed. Without being able to call for an electrical final inspection a temporary or final certificate of occupancy cannot be achieved. This is a direct delay to the project and until we are given directive of how to proceed this delay will be ongoing. A total number of delay days will be finalized once direction is given.	

12/20/2017	Wednesday	Site inaccessible/Mud	1	Overnight 1.37 inches of rain was reported. The critical path was to continue bringing the parking lot area to grade, install sod, grade and backfill around deck, layout paving and sidewalks, and install landscaping, which is all critical as it pertains to getting occupancy. These tasks could not be performed due to the extreme amount of standing water and mud through these areas.	1.37 inches of rain
12/21/2017	Thursday	Site inaccessible/Mud	1	Again, the schedule was to continue bringing the parking lot area to grade, install sod, and install landscaping. These items were prevented from being completed due to the still standing water and extreme mud on site. With it being winter and very little sunlight, drying times are much longer and there was no change from the previous day.	
12/22/2017	Friday	Site inaccessible/Mud	1	Again, the schedule was to continue bringing the parking lot area to grade, install sod, and install landscaping. These items were prevented from being completed due to the still standing water and extreme mud on site. With it being winter and very little sunlight, drying times are much longer and there was no change from the previous day.	
12/23/17-12/28/17	Saturday-Thursday	Cold Weather	6	According to the contract documents, ODOT standards are what the asphalt paving and stabilization specifications are to be referenced on. According to the ODOT standards, the air temperature must be 45 degrees and rising for stabilization and 40 degrees and rising to lay asphalt. The temperatures for the past week have not attained these specified temperatures. The outlook going forward is also extremely cold. Without being able to stabilize the soil and lay asphalt, the parking lot and paving cannot be performed. This work is critical as it directly delays us from achieving substantial completion along with attaining a temporary certificate of occupancy.	
12/29/17-1/2/18	Friday-Tuesday	Cold Weather	5	According to the contract documents, ODOT standards are what the asphalt paving and stabilization specifications are to be referenced on. According to the ODOT standards, the air temperature must be 45 degrees and rising for stabilization and 40 degrees and rising to lay asphalt. The temperatures for the past week have not attained these specified temperatures. The outlook going forward is also extremely cold. Without being able to stabilize the soil and lay asphalt, the parking lot and paving cannot be performed. This work is critical as it directly delays us from achieving substantial completion along with attaining a temporary certificate of occupancy.	



1/3/18-1/7/18	Wednesday-Sunday	Cold Weather/Frozen Ground	5	<p>According to the contract documents, ODOT standards are what the asphalt paving and stabilization specifications are to be referenced on. According to the ODOT standards, the air temperature must be 45 degrees and rising for stabilization and 40 degrees and rising to lay asphalt. The temperature outlook showed there may be some times the temperature was met. However, the subcontractor spoke with both the testing lab CEC, and the City of Norman inspector in regards to the weather, and they stated that the ground must be above freezing before stabilization can occur. The readings of the ground temperature at a depth of 4" were 26 degrees and 27 degrees on both Thursday and Friday. The chemical reaction between the soil and the stabilizer cannot occur at these temperatures.</p>	
1/15/18-1/17/18	Monday-Wednesday	Cold Weather	3	<p>The weather has not gone above freezing for the past 3 days. This has prevented us from power washing floors, CMU Block, or pool deck. The cold also prevented us from sealing the concrete floors, or CMU block. Also, the paving could not proceed with frozen ground and it being too cold to pour concrete or lay asphalt. The cold also prevents us from laying sod or planting plants. All of the paving and landscape tasks are critical and prevent us from obtaining a certificate of occupancy.</p>	
2/20/18-2/27/18	Tuesday-Tuesday	Rain, Ice, Sleet, Snow, Cold	7	<p>Freezing rain and sleet began on 2/20/18 and continued on and off for 3 days, this was mixed in with sleet, snow, and rain. This prevented the sod, irrigation, and landscaping from being completed. It also prevented us from cleaning the exterior portions of the building due to the weather. The rain returned 2/27/18 and has again washed out the site. The consistent rain has closed the sod farms and left a mess on site that is not conducive to exterior work. This is a delay as it prevents the completion of these items. This delay could extend beyond today due to the rain closing the sod farms for future days. The NOAA weather is not registering and also did not pick up the amount of ice, sleet, or snow from he previous week.</p>	
		Total Project Delays	116		