

Demolition and Construction		Comments
Demolition		
1	Demolition Duration	20-25 days for building demolition, 5-10 days for paving demolition
2	Demolition Equipment Type	(1) CAT 335 Excavator, (1) CAT 973 Track Loader, (1) Water Truck
3	Demolition Quantity - Area (SF)	Approx. 48,150 SF of buildings, approx. 157,000 SF of paving
4	Demolition Quantity - Tons Debris Generated	Approx. 1,250 tons of building debris, approx. 3,925 tons of paving
5	Number of Haul Trucks Per Day - Debris Removal	30-35 Loads per day (solid/inert material), 25 Loads per day (trash & C/D material)
Excavation		
1	Excavation Duration	Approx. 133 days based on 2,500 CY export per day
2	Excavation Equipment Type	(2) CAT 345 Excavators, (1) CAT 950 Loader, (1) CAT D6 Dozer, (1) Water Truck, (1) Water
3	Excavation Quantity - Cy Excavated Soil (Inc. % Expansion and Over-Ex Factor)	Approx. 316,850 CY of excavated soil, over-excavation factor of 5% = 332,700 CY
4	Well Excavation Quantity - Cy Excavated Soil (Inc. % Expansion and Over-Ex Factor)	Approx. 173 CY of excavated soil
5	Maximum Number of Haul Trucks Per Day - Soil Export	Approx. 192 based on 2,500 CY export per day
6	Requirement For Imported Soil?	None required
Concrete and Paving		
1	Area of New Or Replacement Asphalt Paving - Sf	Approx. 230,800 SF of paving
2	Area of New East Parking Lot Asphalt Paving - Sf	Approx. 145,000 SF of paving
3	Area of New Hotel Parking Lot Asphalt Paving - Sf	Approx. 22,100 SF of paving
4	Continuous Foundation Concrete at Arena and Supporting Facilities - Cy	Approx. 5,225 CY of concrete based on 372,700 SF of building foot print
5	Continuous Foundation Concrete at West Parking Structure - Cy	Approx. 5,714 CY of concrete based on 195,492 SF of building foot print
6	Continuous Foundation Concrete at Hotel - Cy	Approx. 327 CY of concrete based on 21,780 SF of building foot print
7	Number of Concrete Trucks Needed for Continuous Foundation Concrete	Approx. 1,210 concrete trucks needed
8	General Concrete Needed For Construction of the Arena and Supporting Facilities - Cy	Approx. 12,220 CY of concrete
9	General Concrete Needed For Construction of the West Parking Structure - Cy	Approx. 28,822 CY of concrete
10	General Concrete Needed For Construction of the 150 Key Hotel - Cy	Approx. 1,882 CY of concrete
11	General Concrete Needed For Construction of the New City Water Well - Cy	Approx. 72 CY of concrete
12	Maximum Number of Daily Concrete Trucks For General Concrete Needs	Approx. 4,622 total concrete trucks needed, maximum of 75 trucks per day
Logistics, Sequencing, and Schedule		
1	Arena Construction Phasing, Equipment and Duration	Demo/site prep, Excavation/Grading, Foundations, Superstructure/Building Construction,
2	Will Special Noise Generators (E.G., Impact Pile Drivers) Be Utilized?	None required
3	Construction Schedule - Overall (Demo, Site Prep, Grading/Exc., Foundations, Building	Total Overall Construction Duration: 36 Months
4	Maximum Number of On-Site Construction Workers at Each Construction Phase	Demo: 20, Site Prep: 20, Grading: 15, Foundations: 40, Building Construction: 400, Finishing
5	Construction Traffic Management Plan - Street/Lane Closures	Anticipated street/lane closures at Century Blvd., S Pairie Ave., and S Doty Ave.
6	Ancillary Development Construction Assumptions	All Ancillary Buildings will be constructed concurrently with the Arena Construction
7	Days / Hours of Construction	Monday - Friday 7:00 AM to 9:00 PM; Saturdays 7:00 AM to 6:00 PM
8	Demolition, Soil Export/Import, and Construction Truck Routes	Anticipated demolition and excavation haul routes will utilize S Pairie Ave and Century
Airspace Evaluation Information		Comments
Construction Equipment Data		
1	Type of Machinery	(2) 500T Mobile Cranes (Liebeher 1400, Manitowoc 888 or similar), (2) 150T Hydro Assist
2	Location of Machinery	500T cranes and 150T hydro assist cranes located within the Arena footprint, 250T mobile
3	Machinery Operation Parameters	Monday - Friday 7:00 AM to 9:00 PM; Saturdays 7:00 AM to 6:00 PM during construction of

1203.75	3925		
16 tons per load			
duration - CY based on 2500 CY per day			
124.40	326550		
124.40	326550		
192.31			
surface parking and roadway	230800		
surface parking and roadway	230800		
surface parking and roadway	230800		
.015 per sf of arena, .005 per sf of building	524700	5223.5	
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.015 per sf of arena, .005 per sf of building	524700	5223.5	
9.3 CY per truck, 500 CY per day	561.827957		
team/garage = bldg / 27, + arena = bldg / 27 * .25	315000	12211.11111	
team/garage = bldg / 27, + arena = bldg / 27 * .25	315000	12211.11111	
team/garage = bldg / 27, + arena = bldg / 27 * .25	315000	12211.11111	
team/garage = bldg / 27, + arena = bldg / 27 * .25	315000	12211.11111	
9.3 CY per truck, XXX CY per day			
10.2		<u>48844.44444</u>	
		5252.0908	

Excavation:

Area	Width	Length	Depth	CF
Main Arena	402	436.5	34.5	6,053,818.50
Step 1 - training	402	120.5	30	1,453,230.00
Step 2 - BOH	402	100	20	804,000.00
Mat foundation	402	40	5	80,400.00

Mat foundation - west parking	sf	1142812	0.005	
Mat foundation - hotel	sf	65340	0.005	

haul trucks				2500 cy per day
excavation well	2745			
	1915			
	4660	172.5925926		

Concrete:

surface parking and roadway	230800			
.015 per sf of arena, .005 per sf of building	524700			5,223.50
9.3 CY per truck, 500 CY per day				1,211.21
team/garage = bldg / 27, + arena = bldg / 27 * .25		315000		12,211.11
9.3 CY per truck, XXX CY per day				10.2
concrete trucks				12,211.11
				4,622.30

West garage footing	1142812			5,714.06
P1 West Garage - 4"	189387	0.33	63129	2,338.11
P2 West Garage - 9"	189387	0.75	142040.25	5,260.75
P3 West Garage - 9"	188741	0.75	141555.75	5,242.81
P4 West Garage - 9"	192313	0.75	144234.75	5,342.03
P5 West Garage - 9"	195492	0.75	146619	5,430.33
P6 West Garage - 9"	187492	0.75	140619	5,208.11
				28,822.14

	footprint			
hotel footing	65340			326.70
L1 Hotel - 4"	21780	0.33	7260	268.89
L2 Hotel - 12"	21780	1.00	21780	806.67
L3 Hotel - 12"	21780	1.00	21780	806.67
				1,882.22

Hotel parking lot paving	105 spaces	sf	162	parking	17,010.00
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CY	224,215.50	
	53,823.33	
	29,777.78	
	2,977.78	
	310,794.39	CY
	5,714.06	CY
	326.70	CY
	316,835.15	

1.25

foundation trucks

CY - General Concrete

general trucks

CY		0.005
CY	/27	
CY	/27	
CY	/27	
CY	/27	
CY	/27	
CY	/27	
CY		

CY		0.005
CY		
CY	/27	
CY	/27	
CY		
drive	5000	22,010.00

CY Concrete