



May 14, 2014

Mr. Dave Corliss  
City Manager  
6 East 6<sup>th</sup> Street  
Lawrence, KS 66044

Re: Lawrence Recreation Center – Change Order Request No. 1, 3 and 4.

Dear Dave,

As discussed in our meeting today I recommend approval of the following Change Orders on the Lawrence Recreation Center at Rock Chalk Park.

Change Order Requests

No. 1	Add Concre concrete admixture to the Track (232) concrete to ensure the track has reached the recommended moisture content level prior to the track surface being installed. Total area of concrete = 12,000 sqft.	\$22,044.00
No. 3	Add the following electrical items requested by the City per attached sheets E102F, E101B, E101F, E101G, E101H, E304: <ul style="list-style-type: none"><li>(4) electrical outlets in Turf (126)</li><li>(5) electrical outlets in Gymnastics (127)</li><li>(2) 2P/30A circuits for selected kitchen equipment in Food Prep #206.</li><li>electrical outlet in Storage (105)</li></ul>	\$3,902.80
No. 4	Add a mop sink requested by the City in Storage (105) pre attached sheet P100B, P101B, and P101F.	\$6,015.63
Total Recommended Change Order		\$31,962.43

706 MASSACHUSETTS STREET  
LAWRENCE, KS 66044  
785.842.3800

KANSAS CITY LAWRENCE PHOENIX TAMPA SAN FRANCISCO NEW ORLEANS  
WWW.GOULDEVANS.COM

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Change Order No. 1: As discussed at a recent progress meeting, we were made aware that the subcontractor (Tarkett) had concerns with the installation of the rubber flooring at the elevated track given where the project was relative to getting it enclosed and the ability of the contractor to adequately dehumidify the space. As you are aware, documents were completed Spring of 2013 and bids were received in May 2013, however work did not start until late August 2013. This effectively pushed the critical structural trades into the winter. To compound this, we experienced some extreme conditions this winter that delayed much of this work. As a result, the current schedule that Gene Fritzel has provided the City anticipates the facility enclosed and conditioned by the end of May.

Tarkett and Gene Fritzel believe that it could take 4-6 months for the concrete slabs as planned to reach the appropriate moisture levels for installation of the flooring. In our opinions and that of the City's 3<sup>rd</sup> party consultant (KBS), we believe this could not have been anticipated when the drawings were completed and bids were taken.

If the flooring was installed with too great a moisture level in the slab, it most probably would lead to delamination, and bubbling of the surface. To mitigate this Tarkett has proposed through Gene Fritzel to add a Concur admixture to the concrete which in effect would turn the concrete into a vapor barrier.

In discussions with Tarkett, we have requested and Tarkett has agreed to provide a "letter of confidence" regarding the installation of the flooring following use of the Concur admixture, and furthermore, Tarkett would have a representative on-site during the placement of the Concur and provide a letter of acceptance of the installation as well as a recommended installation date for you're the rubber flooring.

It is our recommendation that you accept this change order request to ensure that we are able to have the rubber flooring installed on the track for the opening September 1, 2014. The alternative would be to have the contractor proceed per plans and specs and install the flooring when the moisture levels are acceptable, but most probably well after the opening.

Change Order No. 3 & 4: These were changes that were requested by LPRD in the last couple of months. In reviewing these changes, they seem very reasonable for the way they want to operate the building. Now would be the best time to incorporate these changes. We have review the attached proposals from the contractor and feel these are reasonable and fair prices, and would recommend that you proceed with them.

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In summary, we recommend you approve a change order in the amount of \$31,962.43. If acceptable, we will prepare the necessary paperwork and notify the contractor to proceed. If you have any questions, please give me a call.

Sincerely,

A handwritten signature in black ink, appearing to read "John Wilkins". The signature is fluid and cursive, with a period at the end.

John Wilkins, AIA LEED AP  
Principal

# CHANGE ORDER

**GENE FRITZEL**  
**CONSTRUCTION CO., INC.**  
643 Massachusetts, Suite 300  
P.O. Box 906  
Lawrence, Kansas 66044-0906

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**Job:** City of Lawrence Rec Center  
670 N. 1800 Rd  
Lawrence, KS 66049

**Date:** May 6, 2014

**Number:** 001

**To:** City of Lawrence Kansas

**We hereby agree to make the change(s) specified below:**

<b>1. Elevated Track Add Concure</b>	
A. 12,000 square feet @ 1.67	\$ 20,040.00
<b>2. GC Margin 5% &amp; OH 5%</b>	\$ 2,004.00
<b>TOTAL</b>	<b>\$ 22,044.00</b>

**Total Price:** \$22,044.00

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City of Lawrence

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GC



# CHANGE ORDER

**GENE FRITZEL**  
**CONSTRUCTION CO., INC.**  
643 Massachusetts, Suite 300  
P.O. Box 906  
Lawrence, Kansas 66044-0906

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**Job:** City of Lawrence Rec Center  
670 N. 1800 Rd  
Lawrence, KS 66049

**Date:** May 6, 2014

**Number:** 003

**To:** City of Lawrence Kansas

**We hereby agree to make the change(s) specified below:**

<b>1. Electrical Changes per City</b>	
A. See attached breakdown	\$ 3,548.00
<b>2. GC Margin 5% &amp; OH 5%</b>	\$ 354.80
<b>TOTAL</b>	<b>\$ 3,902.80</b>

**Total Price:** \$3,902.80

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City of Lawrence

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GC



Earnie's Mechanical  
P.O. Box 1476  
Lawrence, KS 66044

May 12, 2014

DFC Company of Lawrence  
P.O. Box 721  
Lawrence, KS 66044

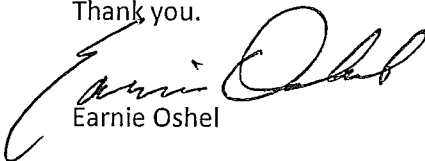
RE: Lawrence Recreational Center

We are pleased to provide you with a proposal for change order for the above mentioned project.

E 102 F		
	(6) 1/20 circuits \$ 250.00 each	\$ 1500.00
	(2) 2/20 circuits \$ 344.00 each	\$ 688.00
E 101 B		\$281.00
	(1)1/20 circuit for floor machine \$ 281.00	
E 101 F		
	(1) add outlet \$120.00	\$ 120.00
E 101G		
	(2) add outlets \$120.00 each	\$ 240.00
	75 ft of surface wire way with 3 outlets.	<u>\$ 719.00</u>
Total		\$3,548.00

Please feel free to contact me at 785-424-4291.

Thank you.

  
Earnie Oshel

# CHANGE ORDER

**GENE FRITZEL**  
**CONSTRUCTION CO., INC.**  
643 Massachusetts, Suite 300  
P.O. Box 906  
Lawrence, Kansas 66044-0906

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**Job:** City of Lawrence Rec Center  
670 N. 1800 Rd  
Lawrence, KS 66049

**Date:** May 6, 2014

**Number:** 004

**To:** City of Lawrence Kansas

**We hereby agree to make the change(s) specified below:**

1. Add Janitors Sink per City request	
A. See attached breakdown	\$ 5,468.75
2. GC Margin 5% & OH 5%	\$ 546.88
<b>TOTAL</b>	<b>\$ 6,015.63</b>

**Total Price:** \$6,015.63

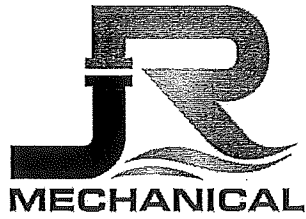
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City of Lawrence

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GC





Phone 785-842-1272 Fax 785-842-1292 Cell 785-423-0550

BID DATE: 5-7-2014

JOB NAME: City Rec. Center

BID SUBMITTED TO: Thomas Fritzel

BASE BID AMOUNT: \$ 5,468.75

Alternate bid amount:

BASE BID INCLUDES: install plumbing as per instruction to added Janitors Sink in room 105, remove and replace concrete as needed, Domestic water piping as per plans and instructions, vent piping as per plans, Janitors sump is assumed to be a Mop sink 24X24 stone commercial grade , with faucet and mop hangers, bumper guards

BID EXCLUDES: any and all additional work

**Josef Rantner**





4.16.2013  
REVISED FOR PERMITS  
Tom C. Laughlin, P.E. - License No. 10090  
© PAUL WERNER ARCHITECTS, L.L.C.  
THIS DRAWING IS COPYRIGHTED WORK BY PAUL WERNER ARCHITECTS, L.L.C. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF PAUL WERNER ARCHITECTS, L.L.C.

**CITY OF LAWRENCE RECREATION AND WELLNESS CENTER**  
ROCK CHALK TAPS  
LAWRENCE, KANSAS

PROJECT # 212-140  
RELEASE DATE: 4/16/13  
BIDDING APPENDIX 1 5/2/13  
E5H 12/13  
E5I-2 4/10/14

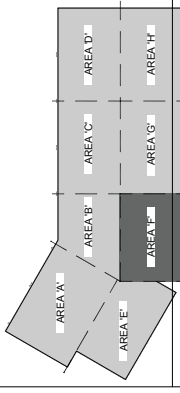
**PLAN NOTES:**

1. Dishing fraction rough-in - coordinate with EC.
2. Flush-mount receptacle boxes mounted above the ceiling. Transformer furnished by EC and installed by EC.
3. Flush-mount sensor rough-in - coordinate the exact location and requirements with shop drawings.
4. #14ga wiring from flush-mount transformer to valve sensor.
5. SPST disconnect provided with fan.
6. Conference room box for power and data. Provide 1" conduit for power. Provide 1" conduit for data/cable to above light ceiling.
7. Provide 6" x 6" receptacle at 11" off to center for laboratory AC plug-in transformers. Coordinate rough-in with EC.
8. Surface raceway mounted on floor as base board. Route homann conduit to plenum space below in route to panel.
9. Owners equipment and NEPA configuration of receptacle with data.
10. Rough hood electrical control panel. One circuit for preheated lights and one for HVAC system controls.
11. Provide interconnecting wiring between hood mounted control panel and roof mounted HVAC equipment.
12. Receptacle for Office area data/telephone switch.
13. Mount adjacent (or above as required) to TV Monitor outlet, refer E102F.
14. Mount space receptacle with bottom 2" off. Provide 1" conduit up to room to homann.
15. Grounding plate - refer specifications and riser diagram.
16. L20 rough-in for investigation controller by others. Coordinate with EC.
17. Rough-in for electric hand dryer - refer architectural details for elevations.
18. EC shall provide parking lot lighting circuits from L21 panel to junction box for extension to site fixtures by others.
19. Flush ground mounted junction box - refer spec's.
20. Receptacles and tele/data outlets to be provided by EC and installed in casework by others. Floor box shall be provided with 1" conduit to junction box. Coordinate location of devices in casework with EC.
21. 120 volt power junction box roughed in a head of door for interface between card reader (provided by others) and door lock mechanism (provided by others).
22. Provide NEPA 6-20R receptacle.

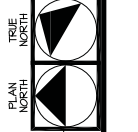
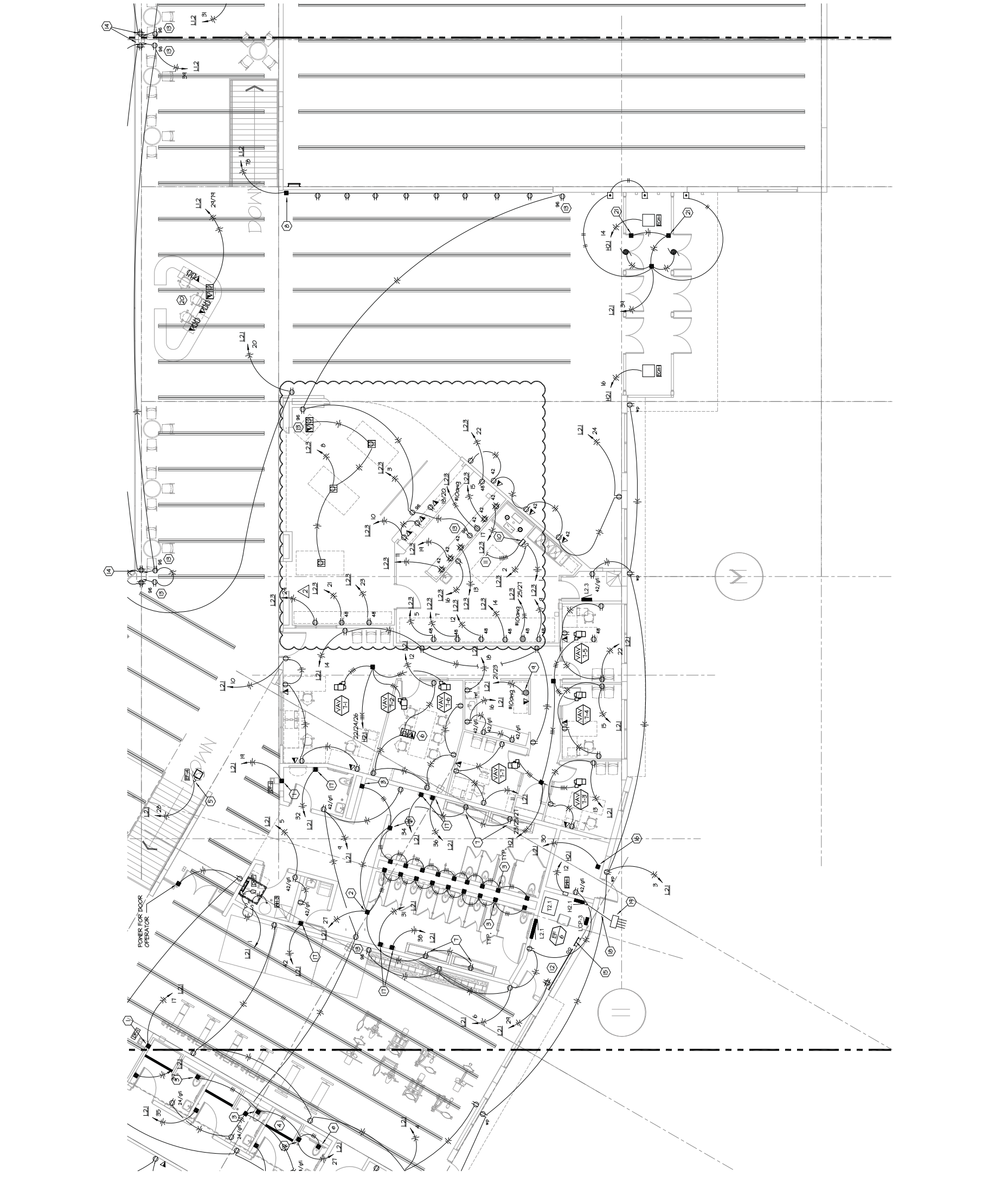
Issue for Bid and Construction

**GENERAL NOTES:**

- A. These drawings are diagrammatic in nature and indicate the general extent of the work. The electrical contractor shall provide all pull boxes, junction boxes and hucapical materials and all conduit and raceway.
- B. Electrical contractor shall determine conductors as required by the NEC, when grouped in common raceways.
- C. Provide firestopping on conduits passing through the rated walls and floors. Coordinate location and ratings of walls with architectural drawings.
- D. Verify requirements of all mechanical equipment with shop drawings and provide conduit and pull-strings up to plenum equipment, ventilate and electrical drawings.
- E. Contractor shall offset outlet boxes on opposite sides of common wall to prevent sound transmission between adjoining rooms.
- F. All low voltage wires not routed in conduit shall be provided as plenum rated cables.
- G. Provide conduit and conductors with pull-strings up to plenum at all entry and data outlet locations.
- H. Where boxes are installed in concrete block walls, the box mounting height shall be at the block joint and the device shall be provided with a jumbo coverplate.
- I. E.C. to provide rough-in boxes and consult for thermistats as indicated.
- J. Refer to telecommunication drawings for data requirements.



Issue for Bid and Construction  
H&B  
HOSS & BROWN  
4910 City Centre Drive  
Lawrence, Kansas 66047  
(785) 833-1310  
www.hossandbrown.com  
H&B Project Number: 12110





ENGINEER OF RECORD:  
PAUL WERNER ARCHITECTS, L.L.C.  
PAUL WERNER ARCHITECTS, L.L.C., THE  
DESIGNER OF RECORD FOR THIS PROJECT,  
IS AN EQUAL OPPORTUNITY ADEQUATELY  
LICENSED PROFESSIONAL ENGINEER,  
REGISTERED IN THE STATE OF KANSAS,  
AND HAS ACCEPTED THE RESPONSIBILITY  
FOR THE DESIGN AND CONSTRUCTION  
OF THIS PROJECT.

DATE: 4.16.13  
BIDDING: 5.8.13  
ADDENDA: 1 5.8.13 2.8.13  
ESI-1  
ESI-2 4.10.14

**PANEL L2.3**  
DESCRIPTION: 100A, 42P MAIN LUGS ONLY SURFACE MOUNT W/ GROUND KIT  
VOLTAGE: 120/208V, 3P, 4 WIRE  
TOTAL CONNECTED LOAD: 39,253W= 109A  
TOTAL DEMANDDED LOAD: 28,483W= 79A

NO	LOAD	LOAD (W)	NO	LOAD	LOAD (W)
1	300 Hood Lights	1000	1	20 A 20 1 Spare	200
2	1500 Meni Boards	1176	2	1 Hood Exhaust Fan	4
3	1500 Future	1500	3	1 Hood Exhaust Fan	4
4	1500 Future	1500	4	1 Hood Exhaust Fan	4
5	1500 Future	1500	5	1 Hood Exhaust Fan	4
6	1500 Future	1500	6	1 Hood Exhaust Fan	4
7	1500 Future	1500	7	1 Hood Exhaust Fan	4
8	1500 Future	1500	8	1 Hood Exhaust Fan	4
9	1500 Future	1500	9	1 Hood Exhaust Fan	4
10	1500 Future	1500	10	1 Hood Exhaust Fan	4
11	1500 Future	1500	11	1 Hood Exhaust Fan	4
12	1500 Future	1500	12	1 Hood Exhaust Fan	4
13	1500 Future	1500	13	1 Hood Exhaust Fan	4
14	1500 Future	1500	14	1 Hood Exhaust Fan	4
15	1500 Future	1500	15	1 Hood Exhaust Fan	4
16	1500 Future	1500	16	1 Hood Exhaust Fan	4
17	1500 Future	1500	17	1 Hood Exhaust Fan	4
18	1500 Future	1500	18	1 Hood Exhaust Fan	4
19	1500 Future	1500	19	1 Hood Exhaust Fan	4
20	1500 Future	1500	20	1 Hood Exhaust Fan	4
21	1500 Future	1500	21	1 Hood Exhaust Fan	4
22	1500 Future	1500	22	1 Hood Exhaust Fan	4
23	1500 Future	1500	23	1 Hood Exhaust Fan	4
24	1500 Future	1500	24	1 Hood Exhaust Fan	4
25	1500 Future	1500	25	1 Hood Exhaust Fan	4
26	1500 Future	1500	26	1 Hood Exhaust Fan	4
27	1500 Future	1500	27	1 Hood Exhaust Fan	4
28	1500 Future	1500	28	1 Hood Exhaust Fan	4
29	1500 Future	1500	29	1 Hood Exhaust Fan	4
30	1500 Future	1500	30	1 Hood Exhaust Fan	4
31	1500 Future	1500	31	1 Hood Exhaust Fan	4
32	1500 Future	1500	32	1 Hood Exhaust Fan	4
33	1500 Future	1500	33	1 Hood Exhaust Fan	4
34	1500 Future	1500	34	1 Hood Exhaust Fan	4
35	1500 Future	1500	35	1 Hood Exhaust Fan	4
36	1500 Future	1500	36	1 Hood Exhaust Fan	4
37	1500 Future	1500	37	1 Hood Exhaust Fan	4
38	1500 Future	1500	38	1 Hood Exhaust Fan	4
39	1500 Future	1500	39	1 Hood Exhaust Fan	4
40	1500 Future	1500	40	1 Hood Exhaust Fan	4
41	1500 Future	1500	41	1 Hood Exhaust Fan	4
42	1500 Future	1500	42	1 Hood Exhaust Fan	4

**PANEL L1.3**  
DESCRIPTION: 100A, 30P MAIN BREAKER SURFACE MOUNT W/ GROUND KIT  
VOLTAGE: 120/208V, 3P, 4 WIRE  
TOTAL CONNECTED LOAD: 36,364W= 101A  
TOTAL DEMANDDED LOAD: 29,074W= 81A

NO	LOAD	LOAD (W)	NO	LOAD	LOAD (W)
1	1800 Data Room Receptacles	1800	1	20 A 20 1 Spare	200
2	1800 Data Room Receptacles	1800	2	20 A 20 1 Spare	200
3	1800 Data Room Receptacles	1800	3	20 A 20 1 Spare	200
4	1800 Data Room Receptacles	1800	4	20 A 20 1 Spare	200
5	1800 Data Room Receptacles	1800	5	20 A 20 1 Spare	200
6	1800 Data Room Receptacles	1800	6	20 A 20 1 Spare	200
7	1800 Data Room Receptacles	1800	7	20 A 20 1 Spare	200
8	1800 Data Room Receptacles	1800	8	20 A 20 1 Spare	200
9	1800 Data Room Receptacles	1800	9	20 A 20 1 Spare	200
10	1800 Data Room Receptacles	1800	10	20 A 20 1 Spare	200
11	1800 Data Room Receptacles	1800	11	20 A 20 1 Spare	200
12	1800 Data Room Receptacles	1800	12	20 A 20 1 Spare	200
13	1800 Data Room Receptacles	1800	13	20 A 20 1 Spare	200
14	1800 Data Room Receptacles	1800	14	20 A 20 1 Spare	200
15	1800 Data Room Receptacles	1800	15	20 A 20 1 Spare	200
16	1800 Data Room Receptacles	1800	16	20 A 20 1 Spare	200
17	1800 Data Room Receptacles	1800	17	20 A 20 1 Spare	200
18	1800 Data Room Receptacles	1800	18	20 A 20 1 Spare	200
19	1800 Data Room Receptacles	1800	19	20 A 20 1 Spare	200
20	1800 Data Room Receptacles	1800	20	20 A 20 1 Spare	200
21	1800 Data Room Receptacles	1800	21	20 A 20 1 Spare	200
22	1800 Data Room Receptacles	1800	22	20 A 20 1 Spare	200
23	1800 Data Room Receptacles	1800	23	20 A 20 1 Spare	200
24	1800 Data Room Receptacles	1800	24	20 A 20 1 Spare	200
25	1800 Data Room Receptacles	1800	25	20 A 20 1 Spare	200
26	1800 Data Room Receptacles	1800	26	20 A 20 1 Spare	200
27	1800 Data Room Receptacles	1800	27	20 A 20 1 Spare	200
28	1800 Data Room Receptacles	1800	28	20 A 20 1 Spare	200
29	1800 Data Room Receptacles	1800	29	20 A 20 1 Spare	200
30	1800 Data Room Receptacles	1800	30	20 A 20 1 Spare	200

**PANEL L2.1 (Section 2)**  
DESCRIPTION: 200A, 42P MAIN LUGS ONLY SURFACE MOUNT W/ GROUND KIT  
VOLTAGE: 120/208V, 3P, 4 WIRE

NO	LOAD	LOAD (W)	NO	LOAD	LOAD (W)
1	1000 Spare	1000	1	20 A 20 1 Spare	200
2	1000 Spare	1000	2	20 A 20 1 Spare	200
3	1000 Spare	1000	3	20 A 20 1 Spare	200
4	1000 Spare	1000	4	20 A 20 1 Spare	200
5	1000 Spare	1000	5	20 A 20 1 Spare	200
6	1000 Spare	1000	6	20 A 20 1 Spare	200
7	1000 Spare	1000	7	20 A 20 1 Spare	200
8	1000 Spare	1000	8	20 A 20 1 Spare	200
9	1000 Spare	1000	9	20 A 20 1 Spare	200
10	1000 Spare	1000	10	20 A 20 1 Spare	200
11	1000 Spare	1000	11	20 A 20 1 Spare	200
12	1000 Spare	1000	12	20 A 20 1 Spare	200
13	1000 Spare	1000	13	20 A 20 1 Spare	200
14	1000 Spare	1000	14	20 A 20 1 Spare	200
15	1000 Spare	1000	15	20 A 20 1 Spare	200
16	1000 Spare	1000	16	20 A 20 1 Spare	200
17	1000 Spare	1000	17	20 A 20 1 Spare	200
18	1000 Spare	1000	18	20 A 20 1 Spare	200
19	1000 Spare	1000	19	20 A 20 1 Spare	200
20	1000 Spare	1000	20	20 A 20 1 Spare	200
21	1000 Spare	1000	21	20 A 20 1 Spare	200
22	1000 Spare	1000	22	20 A 20 1 Spare	200
23	1000 Spare	1000	23	20 A 20 1 Spare	200
24	1000 Spare	1000	24	20 A 20 1 Spare	200
25	1000 Spare	1000	25	20 A 20 1 Spare	200
26	1000 Spare	1000	26	20 A 20 1 Spare	200
27	1000 Spare	1000	27	20 A 20 1 Spare	200
28	1000 Spare	1000	28	20 A 20 1 Spare	200
29	1000 Spare	1000	29	20 A 20 1 Spare	200
30	1000 Spare	1000	30	20 A 20 1 Spare	200
31	1000 Spare	1000	31	20 A 20 1 Spare	200
32	1000 Spare	1000	32	20 A 20 1 Spare	200
33	1000 Spare	1000	33	20 A 20 1 Spare	200
34	1000 Spare	1000	34	20 A 20 1 Spare	200
35	1000 Spare	1000	35	20 A 20 1 Spare	200
36	1000 Spare	1000	36	20 A 20 1 Spare	200
37	1000 Spare	1000	37	20 A 20 1 Spare	200
38	1000 Spare	1000	38	20 A 20 1 Spare	200
39	1000 Spare	1000	39	20 A 20 1 Spare	200
40	1000 Spare	1000	40	20 A 20 1 Spare	200
41	1000 Spare	1000	41	20 A 20 1 Spare	200
42	1000 Spare	1000	42	20 A 20 1 Spare	200

**PANEL L1.2 (Section 2)**  
DESCRIPTION: 400A, 42P MAIN BREAKER SURFACE MOUNT W/ GROUND KIT  
VOLTAGE: 120/208V, 3P, 4 WIRE

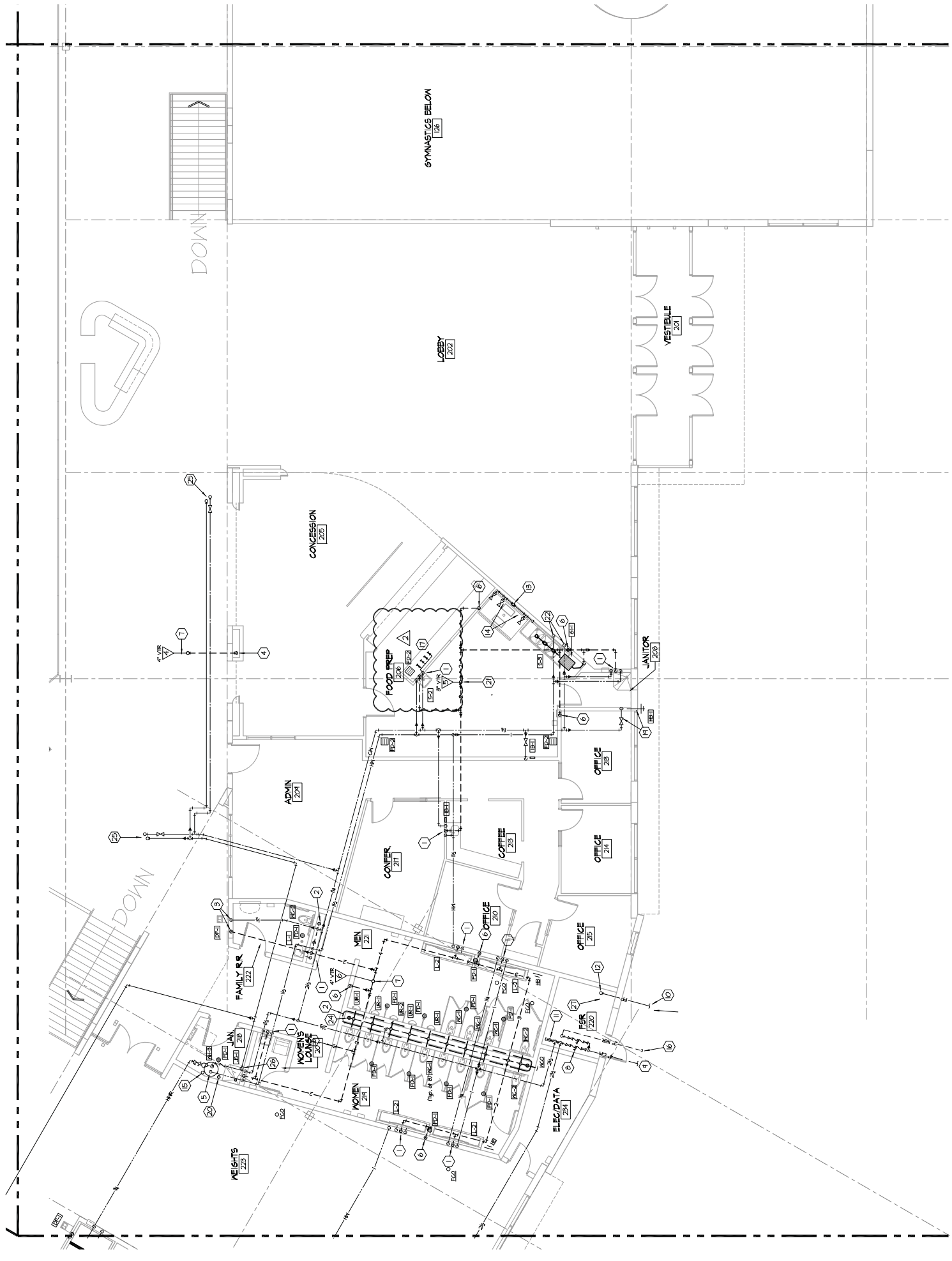
NO	LOAD	LOAD (W)	NO	LOAD	LOAD (W)
1	1200 General Receptacles	1200	1	20 A 20 1 Spare	200
2	1200 General Receptacles	1200	2	20 A 20 1 Spare	200
3	1200 General Receptacles	1200	3	20 A 20 1 Spare	200
4	1200 General Receptacles	1200	4	20 A 20 1 Spare	200
5	1200 General Receptacles	1200	5	20 A 20 1 Spare	200
6	1200 General Receptacles	1200	6	20 A 20 1 Spare	200
7	1200 General Receptacles	1200	7	20 A 20 1 Spare	200
8	1200 General Receptacles	1200	8	20 A 20 1 Spare	200
9	1200 General Receptacles	1200	9	20 A 20 1 Spare	200
10	1200 General Receptacles	1200	10	20 A 20 1 Spare	200
11	1200 General Receptacles	1200	11	20 A 20 1 Spare	200
12	1200 General Receptacles	1200	12	20 A 20 1 Spare	200
13	1200 General Receptacles	1200	13	20 A 20 1 Spare	200
14	1200 General Receptacles	1200	14	20 A 20 1 Spare	200
15	1200 General Receptacles	1200	15	20 A 20 1 Spare	200
16	1200 General Receptacles	1200	16	20 A 20 1 Spare	200
17	1200 General Receptacles	1200	17	20 A 20 1 Spare	200
18	1200 General Receptacles	1200	18	20 A 20 1 Spare	200
19	1200 General Receptacles	1200	19	20 A 20 1 Spare	200
20	1200 General Receptacles	1200	20	20 A 20 1 Spare	200
21	1200 General Receptacles	1200	21	20 A 20 1 Spare	200
22	1200 General Receptacles	1200	22	20 A 20 1 Spare	200
23	1200 General Receptacles	1200	23	20 A 20 1 Spare	200
24	1200 General Receptacles	1200	24	20 A 20 1 Spare	200
25	1200 General Receptacles	1200	25	20 A 20 1 Spare	200
26	1200 General Receptacles	1200	26	20 A 20 1 Spare	200
27	1200 General Receptacles	1200	27	20 A 20 1 Spare	200
28	1200 General Receptacles	1200	28	20 A 20 1 Spare	200
29	1200 General Receptacles	1200	29	20 A 20 1 Spare	200
30	1200 General Receptacles	1200	30	20 A 20 1 Spare	200

**PANEL L2.1 (Section 1)**  
DESCRIPTION: 200A, 42P MAIN BREAKER SURFACE MOUNT W/ GROUND KIT  
VOLTAGE: 120/208V, 3P, 4 WIRE  
TOTAL CONNECTED LOAD: 61,604W= 178A  
TOTAL DEMANDDED LOAD: 47,854W= 133A

NO	LOAD	LOAD (W)	NO	LOAD	LOAD (W)
1	750 Water Heater 3	1000	2	1 Lighting Control Panel LCP-3	2
2	1000 Electric Receptacles	800	3	1 Water Heater 2	4
3	1000 Electric Receptacles	800	4	1 Water Heater 1	4
4	1000 Electric Receptacles	800	5	1 Water Heater 1	4
5	1000 Electric Receptacles	800	6	1 Water Heater 1	4
6	1000 Electric Receptacles	800	7	1 Water Heater 1	4
7	1000 Electric Receptacles	800	8	1 Water Heater 1	4
8	1000 Electric Receptacles	800	9	1 Water Heater 1	4
9	1000 Electric Receptacles	800	10	1 Water Heater 1	4
10	1000 Electric Receptacles	800	11	1 Water Heater 1	4
11	1000 Electric Receptacles	800	12	1 Water Heater 1	4
12	1000 Electric Receptacles	800	13	1 Water Heater 1	4
13	1000 Electric Receptacles	800	14	1 Water Heater 1	4
14	1000 Electric Receptacles	800	15	1 Water Heater 1	4
15	1000 Electric Receptacles	800	16	1 Water Heater 1	4
16	1000 Electric Receptacles	800	17	1 Water Heater 1	4
17	1000 Electric Receptacles	800	18	1 Water Heater 1	4
18	1000 Electric Receptacles	800	19	1 Water Heater 1	4
19	1000 Electric Receptacles	800	20	1 Water Heater 1	4
20	1000 Electric Receptacles	800	21	1 Water Heater 1	4
21	1000 Electric Receptacles	800	22	1 Water Heater 1	4
22	1000 Electric Receptacles	800	23	1 Water Heater 1	4
23	1000 Electric Receptacles	800	24	1 Water Heater 1	4
24	1000 Electric Receptacles	800	25	1 Water Heater 1	4
25	1000 Electric Receptacles	800	26	1 Water Heater 1	4
26	1000 Electric Receptacles	800	27	1 Water Heater 1	4
27	1000 Electric Receptacles	800	28	1 Water Heater 1	4
28	1000 Electric Receptacles	800	29	1 Water Heater 1	4
29	1000 Electric Receptacles	800	30	1 Water Heater 1	4
30	1000 Electric Receptacles	800	31	1 Water Heater 1	4
31	1000 Electric Receptacles	800	32	1 Water Heater 1	4
32	1000 Electric Receptacles	800	33	1 Water Heater 1	4
33	1000 Electric Receptacles	800	34	1 Water Heater 1	4
34	1000 Electric Receptacles	800	35	1 Water Heater 1	4
35	1000 Electric Receptacles	800	36	1 Water Heater 1	4
36	1000 Electric Receptacles	800	37	1 Water Heater 1	4
37	1000 Electric Receptacles	800	38	1 Water Heater 1	4
38	1000 Electric Receptacles	800	39	1 Water Heater 1	4
39	1000 Electric Receptacles	800	40	1 Water Heater 1	4
40	1000 Electric Receptacles	800	41	1 Water Heater 1	4
41	1000 Electric Receptacles	800	42	1 Water Heater 1	4

**PANEL L1.2 (Section 1)**  
DESCRIPTION: 400A, 30P MAIN BREAKER SURFACE MOUNT W/ GROUND KIT AND THRU FEED LUGS  
VOLTAGE: 120/208V, 3P, 4 WIRE  
TOTAL CONNECTED LOAD: 148,428W= 412A  
TOTAL DEMANDDED LOAD: 115,678W= 322A

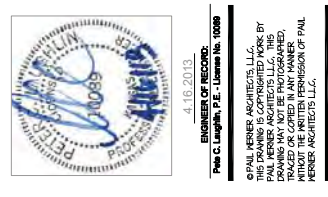
NO	LOAD	LOAD (W)	NO	LOAD	LOAD (W)
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- PLAN NOTES:**
1. Vent, hv & cn down to fixture, refer to riser diagram.
  2. Refer to riser diagram for continuation and sizing of vent, cn, and waste piping in chase.
  3. Vent & cn down to fixture, refer to riser diagram.
  4. Vent down to lower level. Refer to sheet P102F for continuation.
  5. Hv, cn, and hv down to water heater. Refer to riser diagram on sheet P102G and refer to gas water heater detail on sheet P201.
  6. Vent down through slab.
  7. Vent through roof.
  8. Domestic water service entrance refer to detail #5 on sheet P201.
  9. 3" domestic water service entrance out 5 feet. Refer to civil plan for continuation.
  10. Fire Protection service entrance out 5 feet. Refer to civil plan for continuation.
  11. 3" cn down to lower level. Refer to sheet P102F for continuation.
  12. Collection service entrance location. Provide and install backwater valve and cleanout. Refer to sheet P102G for continuation. Refer to the protection specification. Coordinate all scheduling and work with other trades so as to prevent conflicts, and to ensure orderly progress of the work.
  13. Non-pressure gas riser up to roof. Refer to sheet WFE201F for continuation of piping.
  14. 2" gas header along wall. Verify with kitchen plans for connection sizes to equipment.
  15. 1" low pressure gas riser up to roof. Refer to sheet WFE201F for continuation of piping. Refer to gas water heater detail on sheet P201 for gas piping requirements.
  16. 2" inspection line below slab and out five (5) foot for extension by others.
  17. Provide 1/2" PVC line from slab, through wall, above the counter with four (4) 200 ball valves for cover connection to coffee machines.
  18. Not used.
  19. 3/4" cn down in wall to freeze proof wall hydrant. Provide with shutoff valve above ceiling.
  20. 4" concentric termination (AO Smith RN 4006320205) up through roof for direct vent of water heater. Provide 3" PVC pipe and 3" vent through roof. Refer to manufacturer's installation manual.
  21. 3" vent through roof.
  22. Hv & cn down to fixture. Refer to riser diagram.
  23. 2" vent down to grease waste interceptor piping. Refer to riser diagram.
  24. 4" waste down through slide.
  25. 3" domestic water and 1" drain line to roof mounted hose bibb.
  26. 3" drain line terminated over junction sump with Code air gap.
  27. Not Used.
  28. Not Used.

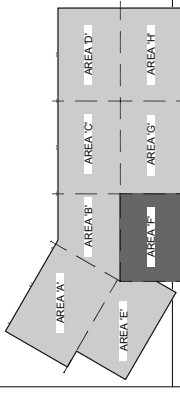
- GENERAL NOTES:**
- A. These drawings are diagrammatic and indicate the general extent of the work, provide plumbing systems complete and per applicable codes including all required components, offsets and clearances.
  - B. Refer to the architectural plans for the exact locations of plumbing fixtures.
  - C. Coordinate the installation of plumbing and piping with the work of all other trades.
  - D. Piping shall not be located over electrical equipment/panels, provide the code required working clearance around all electrical equipment.
  - E. Provide support for all piping, but do not support at terminal units, terminal heating coils, or other equipment.
  - F. Provide supplementary steel as required for the proper support of all plumbing systems.
  - G. Plumbing vent piping through the roof shall be located a minimum of 10'-0" away from any fresh air intake location and a minimum of 10' clear from the inside face of the parapet.
  - H. Provide the code required clearance for all cleanouts installed.
  - I. Plumbing contractor shall provide all condensate drains required for refrigeration equipment.
  - J. Coordinate all locations of floor drains and floor sink receptors with kitchen equipment plans.
  - K. Plumbing contractor is responsible to run condensate line from cooler coil through wall, to extract drain. Seal hole in wall and drain the as high as possible and tight to wall to drain for shelving.
  - L. Plumbing contractor is responsible to run & insulate condensate line from freezer coil through wall, to extract drain. Condensate line must be wrapped with heat tape. Seal hole in wall and hold heat tape as high as possible and tight to wall to drain for shelving.
  - M. Plumbing contractor is responsible to mount all faucets and pre-rinse units provided. All gas lines, elbows, shut-off valves, pressure reducers, water supply lines, drain lines, traps, floor drains, and other plumbing equipment shall be provided and installed by the plumbing contractor.

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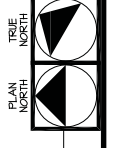


**CITY OF LAWRENCE RECREATION AND WELLNESS CENTER**  
 ROCK CHALK TALK  
 LAWRENCE, KANSAS

PROJECT # 212-140  
 RELEASE DATE: 4/16/13  
 BIDDING APPENDIX I 5/2/13  
 ESH 12/13  
 ESI-2 4/10/14



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**PLAN NOTES:**

1. Elevator sump pump with 1" discharge line. Coordinate the location with elevator to insure there are no conflicts.

**paul werner**  
ARCHITECTS  
**gould evans**

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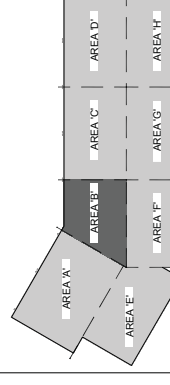
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ROCK CHALK PARK  
LAWRENCE, KANSAS**

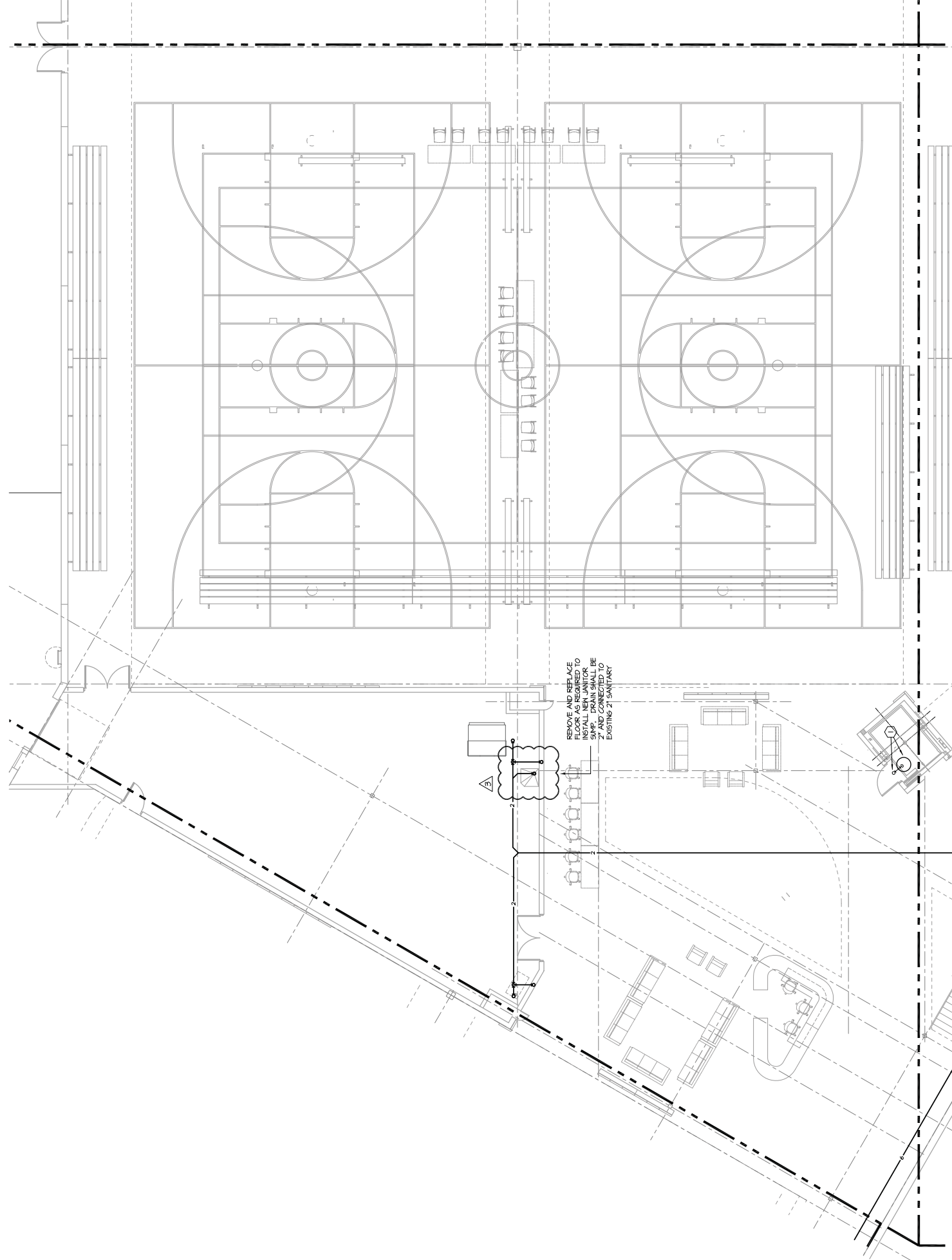
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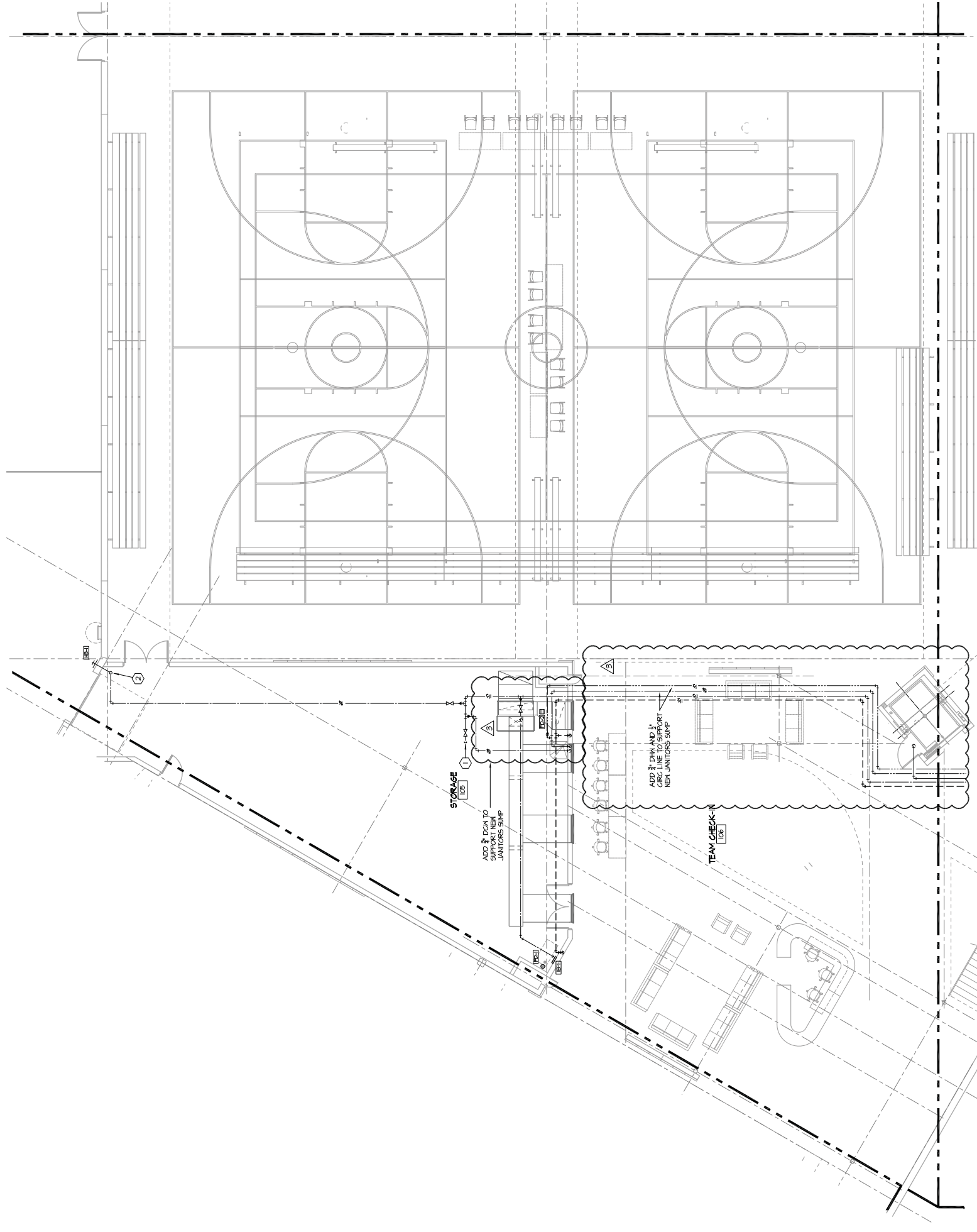


**1** BELOW SLAB PLUMBING PLAN - AREA B

1/8" = 1'-0"

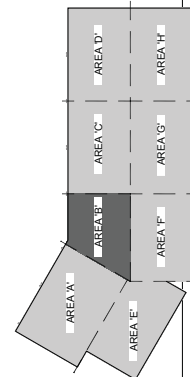
**PLAN NOTES:**

1. Cop 1/2" on the for future tenant finish.
2. 3/4" on down in wall to freeze proof wall hydrant.



PROJECT # 212-140

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ES1-3	4/21/14



**CITY OF LAWRENCE RECREATION AND WELLNESS CENTER**  
 ROCK CHALK PARK  
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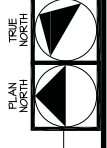
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**GENERAL NOTES:**

- A. These drawings are diagrammatic and indicate the general extent of the work. Provide plumbing systems complete and per applicable codes. Coordinate with other trades, utilities required to avoid the structure, ductwork, etc.
- B. Refer to the architectural plans for the exact locations of plumbing fixtures.
- C. Coordinate the installation of plumbing and piping with the work of all other trades.
- D. Piping shall not be located over electrical equipment/panels, unless required working clearance around all electrical equipment.
- E. The contractor shall not locate piping below ducts mounted at terminal units, terminal heating coils, or other equipment.
- F. Provide supplementary steel as required for the proper support of all plumbing systems.
- G. Plumbing vent piping through the roof shall be located a minimum of 18" above the roof surface and a minimum of 10" clear of the edge of the roof.
- H. Provide the code required clearance for all clearouts installed in sanitary waste and vent piping.



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PROJECT # 212-140

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ES1-2:	4/10/14
ES1-3:	4/21/14

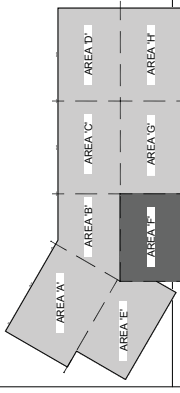
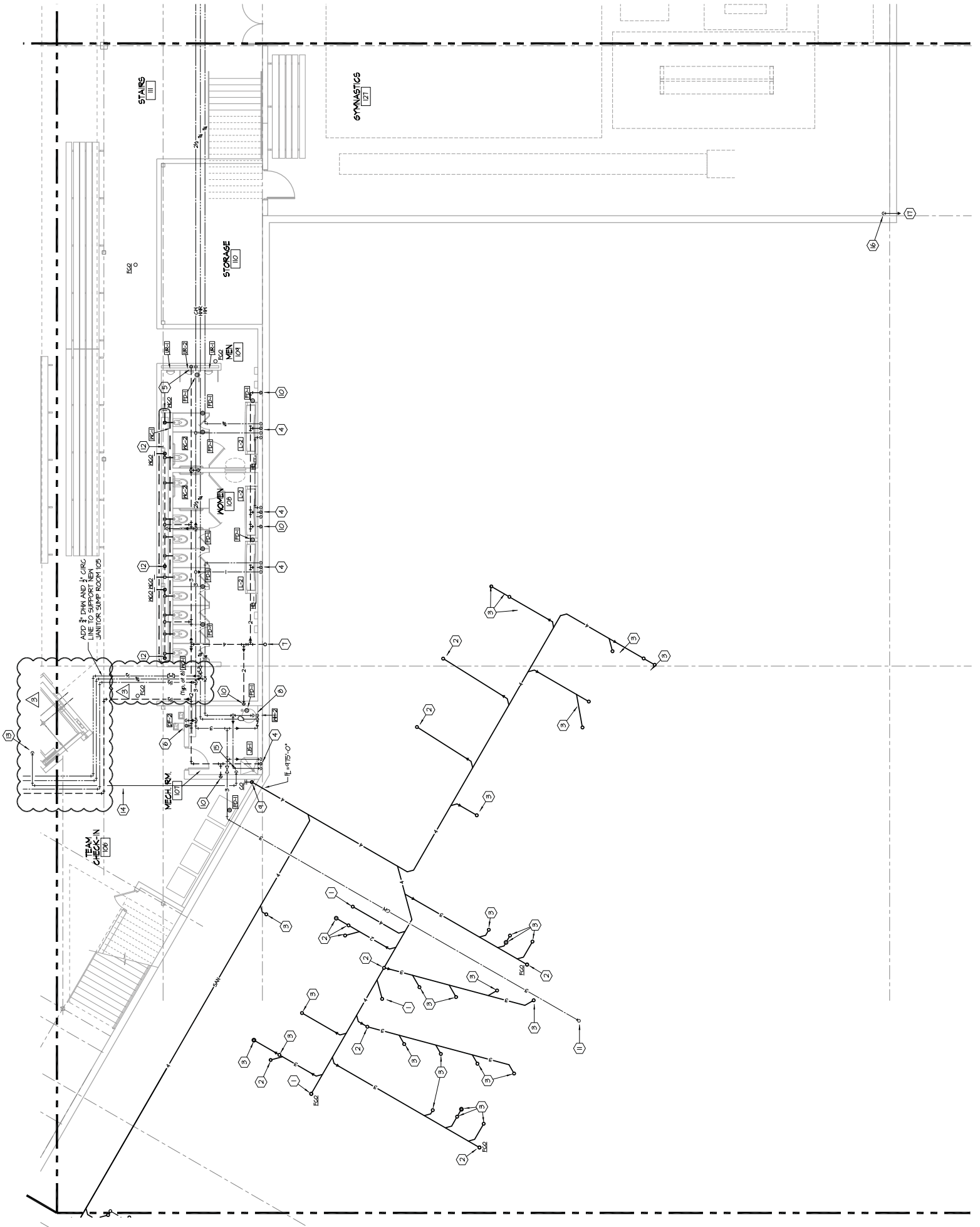
**P101F**  
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**PLAN NOTES:**

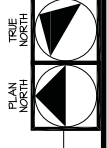
1. 4" waste up through slab.
2. 3" waste up through slab.
3. 2" waste up through slab.
4. Vent, hv & cn down to fixture, refer to riser diagram.
5. Refer to riser diagram for continuation and sizing of vent, cn and waste piping in chase.
6. Vent, hv & cn down to fixture, refer to riser diagram.
7. Vent to chase to roof. Refer to sheet P102B for continuation.
8. Hv, cn and hv down to water heater. Refer to riser diagram on sheet P102C and refer to electric water heater detail on sheet P201.
9. Provide finish wall cleanout at base of riser.
10. 2" vent down through slab.
11. 3" cn down from domestic water service entrance. Refer to sheet P202 for continuation.
12. 4" waste down through slab.
13. 1 1/2" discharge line from elevator sump pump.
14. Route line in web of metal decking above structural beams.
15. Drop in Janitor's room and terminate over Janitor's sump.
16. 1 1/2" discharge line from gym pit sump pump.
17. Route line exposed on wall, exist building wall 12" above grade and terminate in Jim Zier (space block by others)

**GENERAL NOTES:**

- A. These drawings are diagrammatic and indicate the general location of piping. The contractor shall be responsible for determining applicable codes including all required components, offsets and clearances. Refer to the architectural plans for the exact locations of plumbing fixtures.
- B. Coordinate the installation of plumbing and piping with the work of all other trades.
- C. Piping shall not be located over electrical equipment/panels, electrical equipment, or other equipment.
- D. The contractor shall not locate piping below duct mounted air terminal units, terminal heating coils, or other equipment.
- E. Provide supplementary steel as required for the proper support of all plumbing systems.
- F. Plumbing vent piping through the roof shall be located a minimum of 12" above the roof surface and a minimum of 18" clear from the inside face of the parapet.
- G. Provide the code required clearance for all cleanouts installed in sanitary waste and vent piping.
- H. Flowlines are based on a lower level finished floor elevation of 481'-0" and an upper level finished floor elevation of 481'-0".

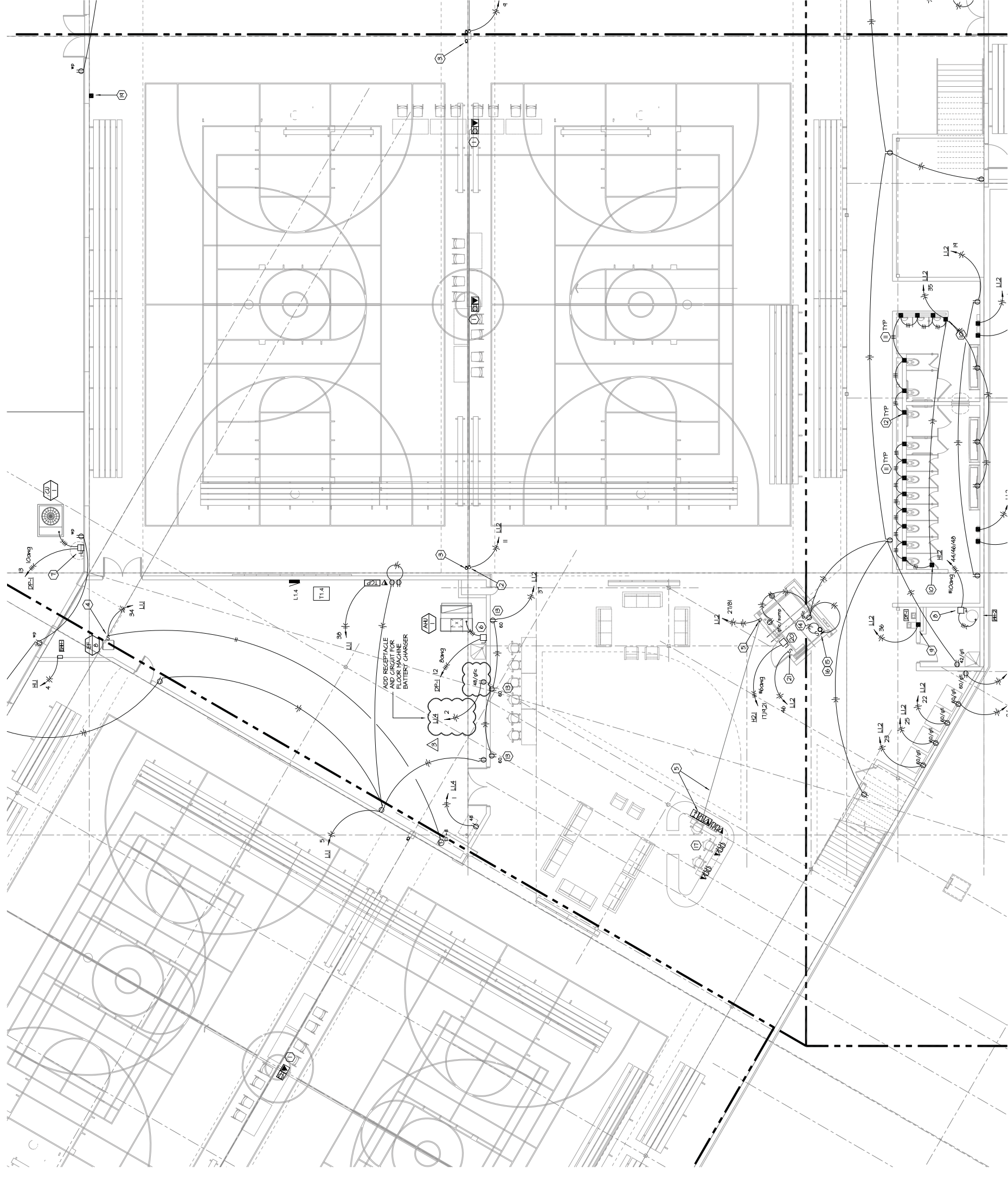


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- PLAN NOTES:**
1. Floor box for screens table power and data
  2. 1/2" underfloor conduit for power - rise against column to within roof structure and route to panel indicated
  3. 3/4" underfloor conduit for handwired scoreboard control - rise against column to within roof structure and route to scoreboard as indicated on upper level plans
  4. Disconnect furnished with fan and installed by EC
  5. Floor box at check desk for power and data. Provide 3/4" underfloor conduit from data box and 1/2" underfloor conduit for power.
  6. 3P/300V/1E NEMA 1 disconnect
  7. 3P/200V/1E NEMA 3R disconnect
  8. 3P/200V/1E NEMA 1 disconnect
  9. DRYING fountain rough-in - coordinate with PC
  10. Flashover transformer box mounted above ceiling - coordinate with PC
  11. #18gq 24V wiring from transformer to each flashover sensor - typical for all as indicated
  12. Rough-in box for flashover sensor furnished by PC and installed by EC - coordinate location with shop drawings
  13. Receptacles for TV Monitors - mount adjacent to TV cable outlet - refer E101B
  14. Outlet located in elevator pit per ANSI requirements
  15. Switch and light fixture located in pit per ANSI requirements
  16. Light fixture shall be equal to Hubbell
  17. Receptacles and teledata outlets to be provided by EC and installed by EC. Coordinate location with shop drawings. Provide with threaded covers to allow for flexible conduit run from box to devices. Coordinate location of devices in casework with EC.
  18. Not Used
  19. Sports equipment lockup location (form # 48" off) with one 1/2" conduit with 2-wiring 12 volt wires and one 1/2" conduit with one pair wiring shielded cable.
  20. Elevator Power Module - refer specifications
  21. Elevator 120 volt power disconnect

**GENERAL NOTES:**

- A. These drawings are diagrammatic in nature and indicate the general extent of the work. The electrical contractor shall provide all materials and labor for a complete and fully functional system.
- B. Electrical contractor shall de-rate conductors as required by the NEC, when grouped in common raceways.
- C. Provide firestopping on conduits passing through fire rated walls and floors. Coordinate location and ratings of walls with structural drawings.
- D. Verify all mechanical equipment with shop drawings submitted. Notify engineer of any conflicts between equipment terminals and electrical drawings.
- E. Contractor shall offset outlet boxes on opposite sides of common wall to prevent sound transmission between adjoining rooms.
- F. All new voltage wires not routed in conduit shall be provided as plenum rated cables.
- G. Provide junction boxes and conduit with pull-strings up to plenum at all valve and data outlet locations.
- H. Where boxes are installed in concrete block walls, the box mounting height shall be at the block joint and the device shall be provided with a junco coverplate.
- I. E.C. to provide rough-in boxes and conduit for thermostats as required.
- J. Refer to telecommunication drawings for data requirements.

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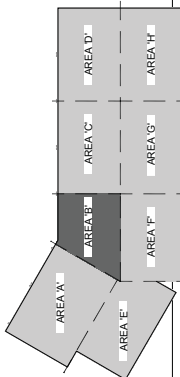


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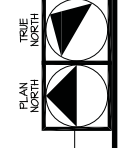
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 ROCK CHALK TALK  
 LAWRENCE, KANSAS

PROJECT # 212-140

RELEASE:	DATE:
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ADDENDA 1:	5/2/13
ESH-1:	12/13
ESH-2:	4/10/14
ESH-3:	4/21/14



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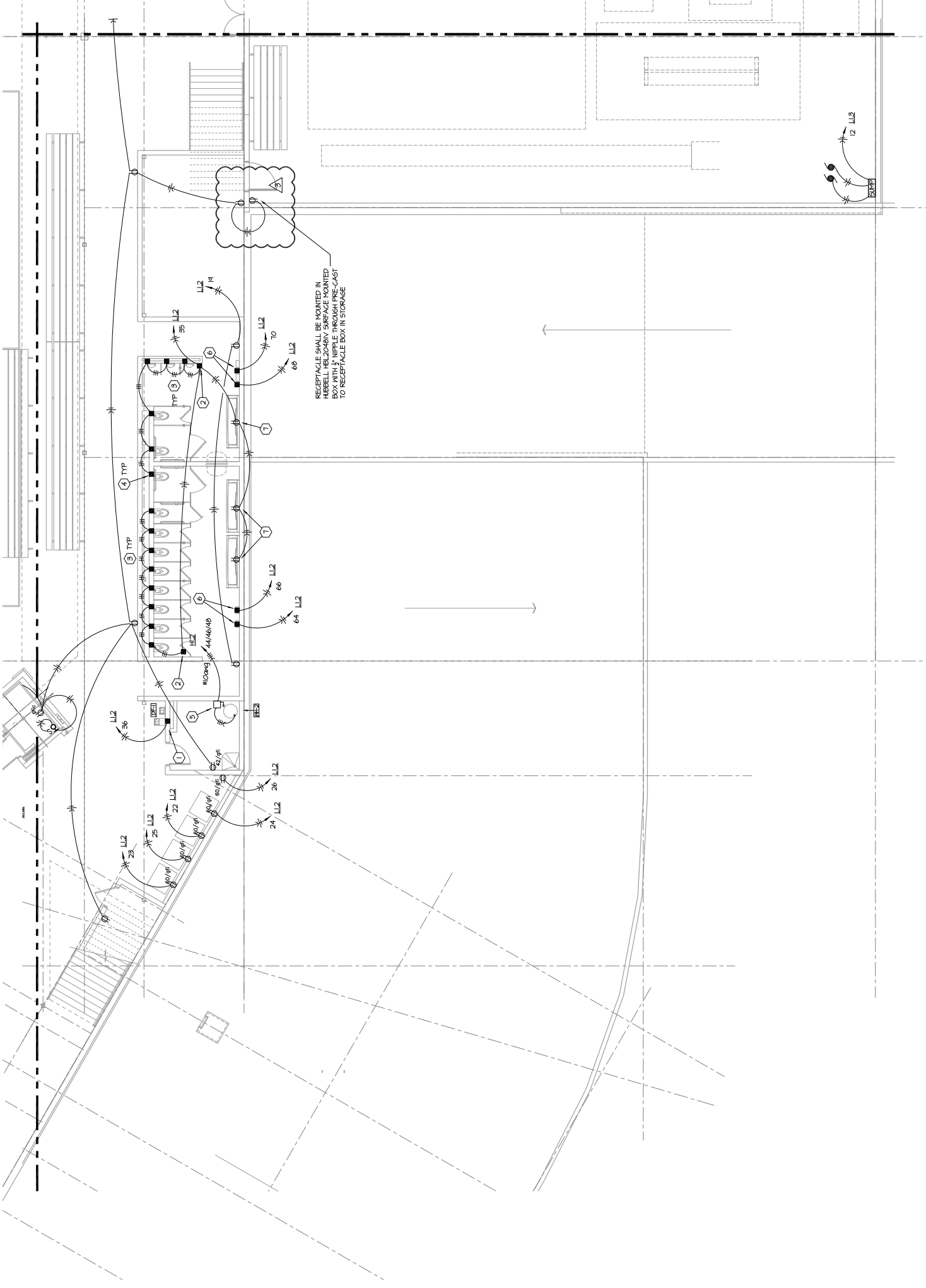


**1 LOWER LEVEL POWER PLAN - AREA B**  
 1/8" = 1'-0"

**E101B**  
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**PLAN NOTES:**

1. Drinking fountain rough-in - coordinate with PC
2. Flushvalve transformer box mounted above ceiling - coordinate with PC
3. 180ga 24V wiring from transformer to each flushvalve sensor - typical for all as indicated
4. Rough-in box for flushvalve sensor furnished by PC and installed by EC - coordinate location with shop drawings
5. 3P/300VNF NEHA I disconnect
6. Rough-in for electric hand dryers - refer architectural details for elevation
7. Verify all EIC receptacles for locating flush transformers at 2'± off to center - coordinate rough-in with PC
8. Not Used
9. Not Used



RECEPTACLE SHALL BE MOUNTED IN HERBELL HELD-DRAWY SURFACE MOUNTED BOX WITH 1/2" NIPPLE THROUGH PRE-CAST TO RECEPTACLE BOX IN STORAGE

**paul werner architects**  
**goulddevans**

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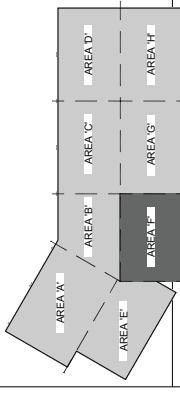


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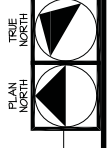
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ES1-3:	4/21/14



**GENERAL NOTES:**

- A. These drawings are diagrammatic in nature and indicate the general extent of the work. The electrical contractor shall provide all pull boxes, junction boxes and electrical materials and labor for the installation of the electrical system.
- B. Electrical contractor shall describe conductors as required by the NEC, when grouped in common raceways.
- C. Provide firestopping on conduits passing through fire rated walls and floors. Coordinate location and ratings of walls with architectural drawings.
- D. Verify requirements of all mechanical equipment with shop drawings and provide all electrical connections between equipment, ventilators and electrical drawings.
- E. Contractor shall offset outlet boxes on opposite sides of common wall to prevent sound transmission between adjoining rooms.
- F. All low voltage wires not routed in conduit shall be provided as plenum rated cables.
- G. All low voltage wires and conduit with pull-strings up to plenum shall be installed in concrete block walls.
- H. Where boxes are installed in concrete block walls, the box mounting height shall be at the block joint and the device shall be provided with a jumbo coverplate.
- I. E.C. to provide rough-in boxes and conduit for thermostats as indicated.
- J. Refer to telecommunication drawings for data requirements.

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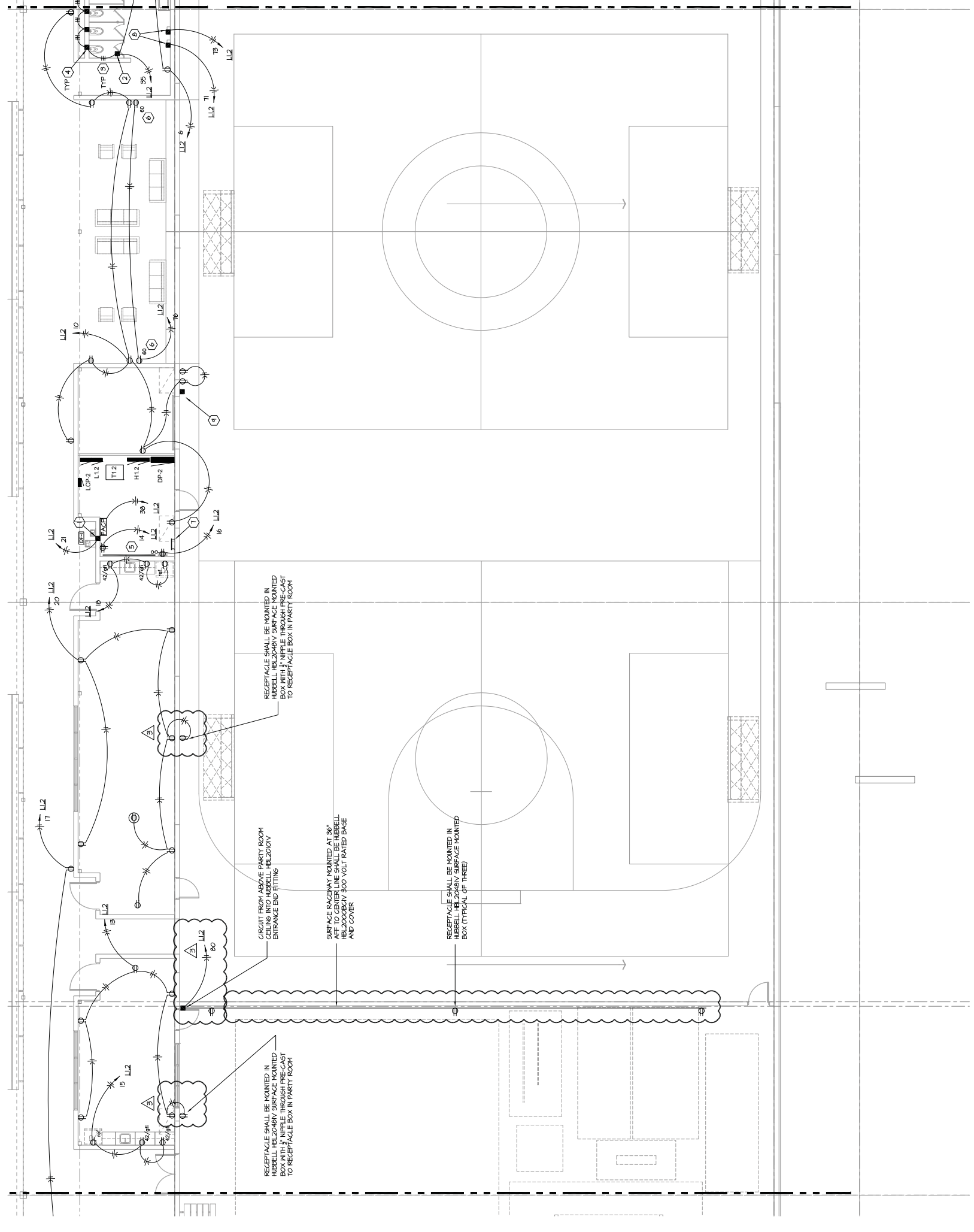


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**PLAN NOTES:**

1. Drinking fountain rough-in - coordinate with PC
2. Remove transformer box mounted above ceiling - coordinate with PC
3. Replace 24V wiring from transformer to each Insteve sensor - typical for all as indicated
4. Rough-in box for Insteve sensor furnished by PC and installed by EC - coordinate location with shop drawings
5. Receptacle and backboard for CCTV DVR use
6. Receptacles for TV Monitors - mount adjacent to TV cable outlet - refer E406
7. Grounding plate - refer specifications and riser diagram
8. Rough-in for electric hand dryers - refer architectural details for elevation
9. Approximate equipment backboard location (same as 168) off with one 1/2" spacing equipment backboard. For wires and one 1/2" conduit with one pair of 1/2" HDG shielded cable.



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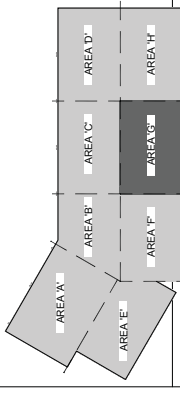


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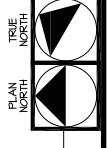
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RELEASE:	DATE:
BIDDING:	4/16/13
ADDENDA 1:	5/2/13
ESH:	12/13
ES1-2:	4/10/14
ES1-3:	4/21/14



**GENERAL NOTES:**

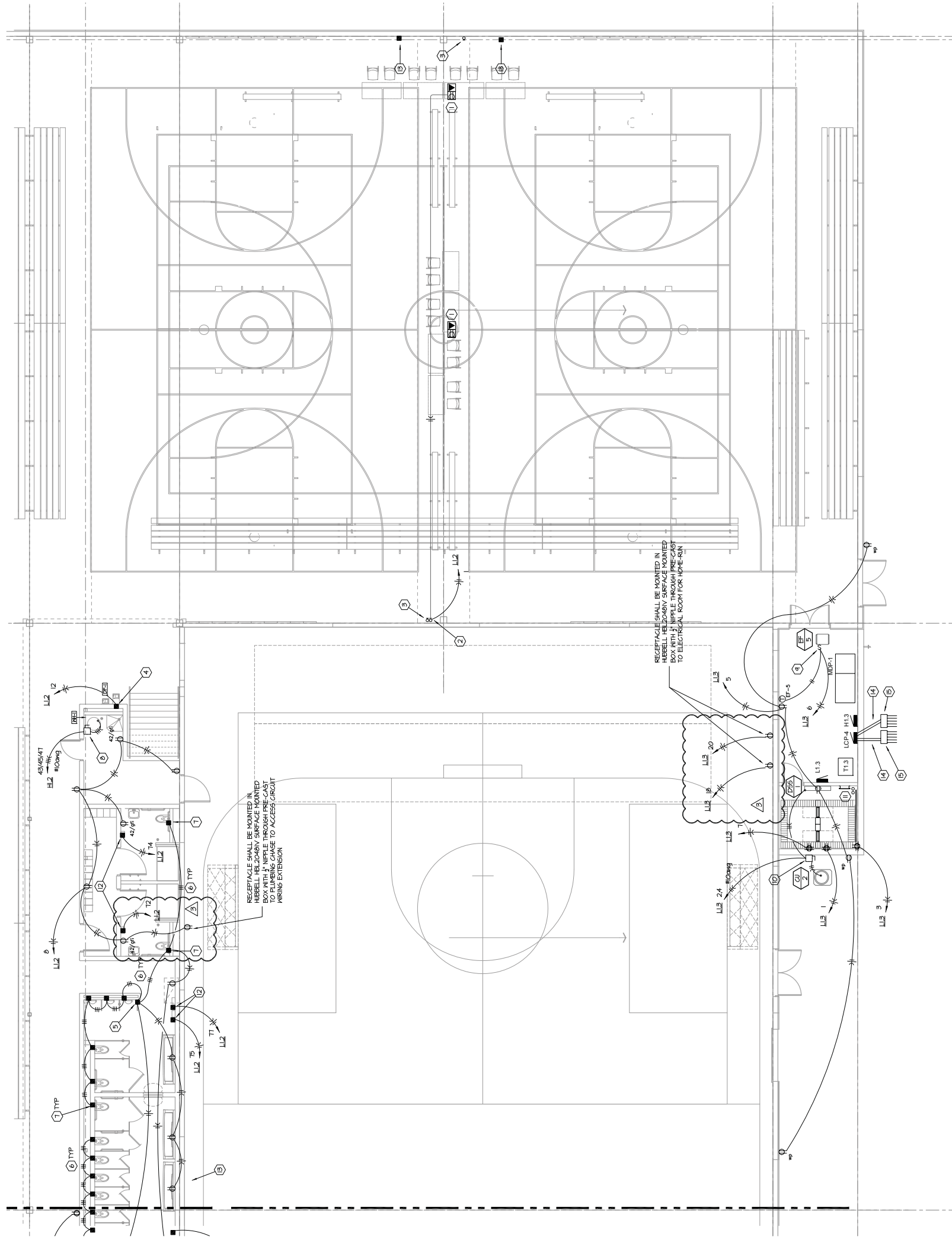
- A. These drawings are approximately in nature and indicate the general extent of the work. The electrical contractor shall provide all pull boxes, junction boxes and incidental materials and labor for a complete and fully functional system.
- B. Where a contractor shall derate conductors as required by the NEC.
- C. Provide fastening or conduits passing through the ceiling walls and floors, coordinate location and ratings of walls with architectural drawings.
- D. Verify requirements of all mechanical equipment with shop drawing submittals. Notify engineer of any conflicts between electrical and mechanical drawings.
- E. Contractor shall offset cable boxes on opposite sides of common wall to prevent sound transmission between adjoining rooms.
- F. All low voltage wires not routed in conduit shall be provided as plenum rated cables.
- G. Provide junction boxes and conduit with pull-strings up to plenum on walls and data rack locations.
- H. Where a contractor shall derate conductors, the box mounting height shall be at the block joint and the device shall be provided with a jumbo coverplate.
- I. EC to provide rough-in boxes and conduit for thermostats as indicated.
- J. Refer to telecommunication drawings for data requirements.



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H&B Project Number: 12110

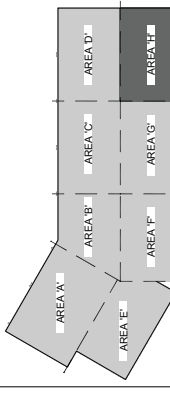
**PLAN NOTES:**

1. Floor box for scores table power and data
2. If conductor conduit for power - rise against column to within roof structure and route to panel indicated
3. If underfloor conduit for handheld scoreboard control - rise against column to within roof structure and route to scoreboard as indicated on upper level plans
4. Drinking fountain rough-in - coordinate with FC
5. Flashing transformer box mounted above ceiling - coordinate with FC
6. Recessed wiring from transformer to each flushmount sensor - riser for backscatter sensor
7. Recessed wiring from transformer to each flushmount sensor - riser for backscatter sensor
8. Flashing transformer box mounted above ceiling - coordinate with FC
9. Flashing transformer box mounted above ceiling - coordinate with FC
10. 2P/200V/NE NEVA 3R disconnect
11. Forwarding plate - refer specifications and riser diagram
12. Rough-in for electric hand dryer - refer architectural details for elevation
13. Sports equipment lockup location (form # 48) affl) with one 1/2" conduit with 2-wire and one 1/2" conduit with one pair of shielded cable
14. EC shall provide tennis court lighting circuits from HLB panel via 1/2" conduit to junction box for extension to site fixtures by others.
15. Flush ground mounted junction box - refer spec's



**GENERAL NOTES:**

- A. These drawings are diagrammatic in nature and indicate the general location of electrical equipment. The contractor shall provide all materials and labor for a complete and fully functional system.
- B. Electrical contractor shall de-rate conductors as required by the NEC, when grouped in common raceways.
- C. Provide firestopping on conduits passing through fire rated walls and floors. Coordinate location and ratings of walls with architectural.
- D. Verify requirements of all mechanical equipment with shop drawing submittals. Notify engineer of any conflicts between equipment submittals and electrical drawings.
- E. Contractor shall offset outlet boxes on opposite sides of common wall to prevent sound transmission between adjoining rooms.
- F. All low voltage wires not routed in conduit shall be provided as plenum rated cables.
- G. Provide junction boxes and conduit with pull-strings up to plenum at all voice and data outlet locations.
- H. Where boxes are installed in concrete block walls, the box mounting height shall be at the block joint and the device shall be provided with a jaco coverplate.
- I. Provide rough-in boxes and conduit for thermostats as indicated.
- J. Refer to telecommunication drawings for data requirements.



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**gould evans**

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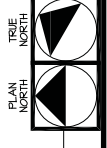


4.16.2013  
 ENGINEER OF RECORD:  
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**CITY OF LAWRENCE RECREATION AND WELLNESS CENTER**  
 ROCK CHALK TALK  
 LAWRENCE, KANSAS

PROJECT # 212-140

RELEASE:	DATE:
BIDDING:	4/16/13
APPENDIX I:	5/2/13
ESH:	12/13
ESI-2:	4/10/14
ESI-3:	4/21/14



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 PLAN NORTH

Issue for Bid and Construction

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 H&B Project Number: 12110

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4.16.2013  
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**CITY OF LAWRENCE RECREATION  
AND WELLNESS CENTER**  
LAURENCE, KANSAS

PROJECT # 212-140  
DATE: 4.16.13  
APPENDIX 1  
5.8.13  
5.11.13  
5.11.13  
5.11.13  
5.11.13  
5.11.13

**PANEL L2.3**  
DESCRIPTION: 100A 42P MAIN LUGS ONLY SURFACE MOUNT W/ GROUND KIT  
VOLTAGE: 120/208V, 3P, 4 WIRE  
TOTAL CONNECTED LOAD: 39,253W= 109A  
TOTAL DEMAND LOAD: 28,483W= 79A

NO	LOAD (W)	DESCRIPTION	AMP	P	S	H	SIZE	PH	SIZE	P	LOAD (W)	NO
1	300	Hood Lights	1	20	A	20	1	20	A	20	1	4
2	1500	Main Boards	1	20	B	20	1	20	B	20	1	46
3	1500	Main Boards	1	20	C	20	1	20	C	20	1	46
4	1500	Main Boards	1	20	D	20	1	20	D	20	1	46
5	1500	Main Boards	1	20	E	20	1	20	E	20	1	46
6	1500	Main Boards	1	20	F	20	1	20	F	20	1	46
7	1500	Main Boards	1	20	G	20	1	20	G	20	1	46
8	1500	Main Boards	1	20	H	20	1	20	H	20	1	46
9	1500	Main Boards	1	20	I	20	1	20	I	20	1	46
10	1500	Main Boards	1	20	J	20	1	20	J	20	1	46
11	1500	Main Boards	1	20	K	20	1	20	K	20	1	46
12	1500	Main Boards	1	20	L	20	1	20	L	20	1	46
13	1500	Main Boards	1	20	M	20	1	20	M	20	1	46
14	1500	Main Boards	1	20	N	20	1	20	N	20	1	46
15	1500	Main Boards	1	20	O	20	1	20	O	20	1	46
16	1500	Main Boards	1	20	P	20	1	20	P	20	1	46
17	1500	Main Boards	1	20	Q	20	1	20	Q	20	1	46
18	1500	Main Boards	1	20	R	20	1	20	R	20	1	46
19	1500	Main Boards	1	20	S	20	1	20	S	20	1	46
20	1500	Main Boards	1	20	T	20	1	20	T	20	1	46
21	1500	Main Boards	1	20	U	20	1	20	U	20	1	46
22	1500	Main Boards	1	20	V	20	1	20	V	20	1	46
23	1500	Main Boards	1	20	W	20	1	20	W	20	1	46
24	1500	Main Boards	1	20	X	20	1	20	X	20	1	46
25	1500	Main Boards	1	20	Y	20	1	20	Y	20	1	46
26	1500	Main Boards	1	20	Z	20	1	20	Z	20	1	46
27	1500	Main Boards	1	20	1	20	1	20	1	20	1	46
28	1500	Main Boards	1	20	2	20	1	20	2	20	1	46
29	1500	Main Boards	1	20	3	20	1	20	3	20	1	46
30	1500	Main Boards	1	20	4	20	1	20	4	20	1	46

**PANEL L1.3**  
DESCRIPTION: 100A 30P MAIN BREAKER SURFACE MOUNT W/ GROUND KIT  
VOLTAGE: 120/208V, 3P, 4 WIRE  
TOTAL CONNECTED LOAD: 38,364W= 106A  
TOTAL DEMAND LOAD: 31,074W= 85A

NO	LOAD (W)	DESCRIPTION	AMP	P	S	H	SIZE	PH	SIZE	P	LOAD (W)	NO
1	1800	Data Room Receptacles	1	20	A	20	1	20	A	20	1	2
2	1800	Data Room Receptacles	1	20	B	20	1	20	B	20	1	2
3	1800	Data Room Receptacles	1	20	C	20	1	20	C	20	1	2
4	1800	Data Room Receptacles	1	20	D	20	1	20	D	20	1	2
5	600	General Receptacles	1	20	E	20	1	20	E	20	1	6
6	1800	Data Room Receptacles	1	20	F	20	1	20	F	20	1	2
7	1800	Data Room Receptacles	1	20	G	20	1	20	G	20	1	2
8	1800	Data Room Receptacles	1	20	H	20	1	20	H	20	1	2
9	1800	Data Room Receptacles	1	20	I	20	1	20	I	20	1	2
10	1800	Data Room Receptacles	1	20	J	20	1	20	J	20	1	2
11	3500	Gym Control Panel	1	30	A	30	1	30	A	30	1	8
12	3500	Gym Control Panel	1	30	B	30	1	30	B	30	1	8
13	3500	Gym Control Panel	1	30	C	30	1	30	C	30	1	8
14	3500	Gym Control Panel	1	30	D	30	1	30	D	30	1	8
15	3500	Gym Control Panel	1	30	E	30	1	30	E	30	1	8
16	3500	Gym Control Panel	1	30	F	30	1	30	F	30	1	8
17	3500	Gym Control Panel	1	30	G	30	1	30	G	30	1	8
18	3500	Gym Control Panel	1	30	H	30	1	30	H	30	1	8
19	3500	Gym Control Panel	1	30	I	30	1	30	I	30	1	8
20	3500	Gym Control Panel	1	30	J	30	1	30	J	30	1	8
21	1000	LP-4 control power	1	20	A	20	1	20	A	20	1	20
22	1000	LP-4 control power	1	20	B	20	1	20	B	20	1	20
23	1000	LP-4 control power	1	20	C	20	1	20	C	20	1	20
24	1000	LP-4 control power	1	20	D	20	1	20	D	20	1	20
25	1000	LP-4 control power	1	20	E	20	1	20	E	20	1	20
26	1000	LP-4 control power	1	20	F	20	1	20	F	20	1	20
27	1000	LP-4 control power	1	20	G	20	1	20	G	20	1	20
28	1000	LP-4 control power	1	20	H	20	1	20	H	20	1	20
29	1000	LP-4 control power	1	20	I	20	1	20	I	20	1	20
30	1000	LP-4 control power	1	20	J	20	1	20	J	20	1	20

**PANEL L1.1 (Section 2)**  
DESCRIPTION: 400A 42P MAIN LUGS ONLY SURFACE MOUNT W/ GROUND KIT  
VOLTAGE: 120/208V, 3P, 4 WIRE

NO	LOAD (W)	DESCRIPTION	AMP	P	S	H	SIZE	PH	SIZE	P	LOAD (W)	NO
1	3500	Gym Control Panel	1	30	A	30	1	30	A	30	1	44
2	3500	Gym Control Panel	1	30	B	30	1	30	B	30	1	44
3	3500	Gym Control Panel	1	30	C	30	1	30	C	30	1	44
4	3500	Gym Control Panel	1	30	D	30	1	30	D	30	1	44
5	3500	Gym Control Panel	1	30	E	30	1	30	E	30	1	44
6	3500	Gym Control Panel	1	30	F	30	1	30	F	30	1	44
7	3500	Gym Control Panel	1	30	G	30	1	30	G	30	1	44
8	3500	Gym Control Panel	1	30	H	30	1	30	H	30	1	44
9	3500	Gym Control Panel	1	30	I	30	1	30	I	30	1	44
10	3500	Gym Control Panel	1	30	J	30	1	30	J	30	1	44
11	3500	Gym Control Panel	1	30	1	30	1	30	1	30	1	44
12	3500	Gym Control Panel	1	30	2	30	1	30	2	30	1	44
13	3500	Gym Control Panel	1	30	3	30	1	30	3	30	1	44
14	3500	Gym Control Panel	1	30	4	30	1	30	4	30	1	44
15	3500	Gym Control Panel	1	30	5	30	1	30	5	30	1	44
16	3500	Gym Control Panel	1	30	6	30	1	30	6	30	1	44
17	3500	Gym Control Panel	1	30	7	30	1	30	7	30	1	44
18	3500	Gym Control Panel	1	30	8	30	1	30	8	30	1	44
19	3500	Gym Control Panel	1	30	9	30	1	30	9	30	1	44
20	3500	Gym Control Panel	1	30	10	30	1	30	10	30	1	44
21	3500	Gym Control Panel	1	30	11	30	1	30	11	30	1	44
22	3500	Gym Control Panel	1	30	12	30	1	30	12	30	1	44
23	3500	Gym Control Panel	1	30	13	30	1	30	13	30	1	44
24	3500	Gym Control Panel	1	30	14	30	1	30	14	30	1	44
25	3500	Gym Control Panel	1	30	15	30	1	30	15	30	1	44
26	3500	Gym Control Panel	1	30	16	30	1	30	16	30	1	44
27	3500	Gym Control Panel	1	30	17	30	1	30	17	30	1	44
28	3500	Gym Control Panel	1	30	18	30	1	30	18	30	1	44
29	3500	Gym Control Panel	1	30	19	30	1	30	19	30	1	44
30	3500	Gym Control Panel	1	30	20	30	1	30	20	30	1	44

**PANEL L1.4**  
DESCRIPTION: 100A 30P MAIN BREAKER SURFACE MOUNT W/ GROUND KIT  
VOLTAGE: 120/208V, 3P, 4 WIRE  
TOTAL CONNECTED LOAD: 31,420W= 87A  
TOTAL DEMAND LOAD: 17,520W= 58A

NO	LOAD (W)	DESCRIPTION	AMP	P	S	H	SIZE	PH	SIZE	P	LOAD (W)	NO
1	1500	Ice Machine	1	20	A	20	1	20	A	20	1	2
2	1500	Ice Machine	1	20	B	20	1	20	B	20	1	2
3	1500	Ice Machine	1	20	C	20	1	20	C	20	1	2
4	1500	Ice Machine	1	20	D	20	1	20	D	20	1	2
5	1500	Ice Machine	1	20	E	20	1	20	E	20	1	2
6	1500	Ice Machine	1	20	F	20	1	20	F	20	1	2
7	1500	Ice Machine	1	20	G	20	1	20	G	20	1	2
8	1500	Ice Machine	1	20	H	20	1	20	H	20	1	2
9	1500	Ice Machine	1	20	I	20	1	20	I	20	1	2
10	1500	Ice Machine	1	20	J	20	1	20	J	20	1	2
11	1500	Ice Machine	1	20	1	20	1	20	1	20	1	2
12	1500	Ice Machine	1	20	2	20	1	20	2	20	1	2
13	1500	Ice Machine	1	20	3	20	1	20	3	20	1	2
14	1500	Ice Machine	1	20	4	20	1	20	4	20	1	2
15	1500	Ice Machine	1	20	5	20	1	20	5	20	1	2
16	1500	Ice Machine	1	20	6	20	1	20	6	20	1	2
17	1500	Ice Machine	1	20	7	20	1	20	7	20	1	2
18	1500	Ice Machine	1	20	8	20	1	20	8	20	1	2
19	1500	Ice Machine	1	20	9	20	1	20	9	20	1	2
20	1500	Ice Machine	1	20	10	20	1	20	10	20	1	2
21	1500	Ice Machine	1	20	11	20	1	20	11	20	1	2
22	1500	Ice Machine	1	20	12	20	1	20	12	20	1	2
23	1500	Ice Machine	1	20	13	20	1	20	13	20	1	2
24	1500	Ice Machine	1	20	14	20	1	20	14	20	1	2
25	1500	Ice Machine	1	20	15	20	1	20	15	20	1	2
26	1500	Ice Machine	1	20	16	20	1	20	16	20	1	2
27	1500	Ice Machine	1	20	17	20	1	20	17	20	1	2
28	1500	Ice Machine	1	20	18	20	1	20	18	20	1	2
29	1500	Ice Machine	1	20	19	20	1	20	19	20	1	2
30	1500	Ice Machine	1	20	20	20	1	2				