

Addendum #1



Capital Project Committee

Project Information

Project Name:	Recreation Center & Family Funplex Pool Lighting / Painting
Bid Number:	FD20-03-051
Date:	March 26, 2020
Project Manager:	Dale Blehm

Addendum Items

Item 1:	Are there any drawings related to these projects? Please see attached.
Item 2:	Pre-Bid meeting - initially meet outside of Public Works Building at 2:00pm then proceed to see project sites.

GENERAL NOTES - THIS SHEET ONLY
 1. ALL EXISTING FIXTURES, CONDUIT, AND WIRE TO BE REMOVED AND REPLACED.



**GREELEY REC CENTER & FUN PLEX
 LIGHTING UPGRADE**
 GREELEY, COLORADO



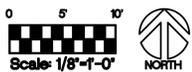
JOB 19089
 DATE 03/03/2020
 DRAWN CAD
 CHECKED TP

GREELEY REC CENTER POOL - DEMO LIGHTING PLAN

ED1.0



GREELEY REC CENTER POOL - DEMO LIGHTING PLAN

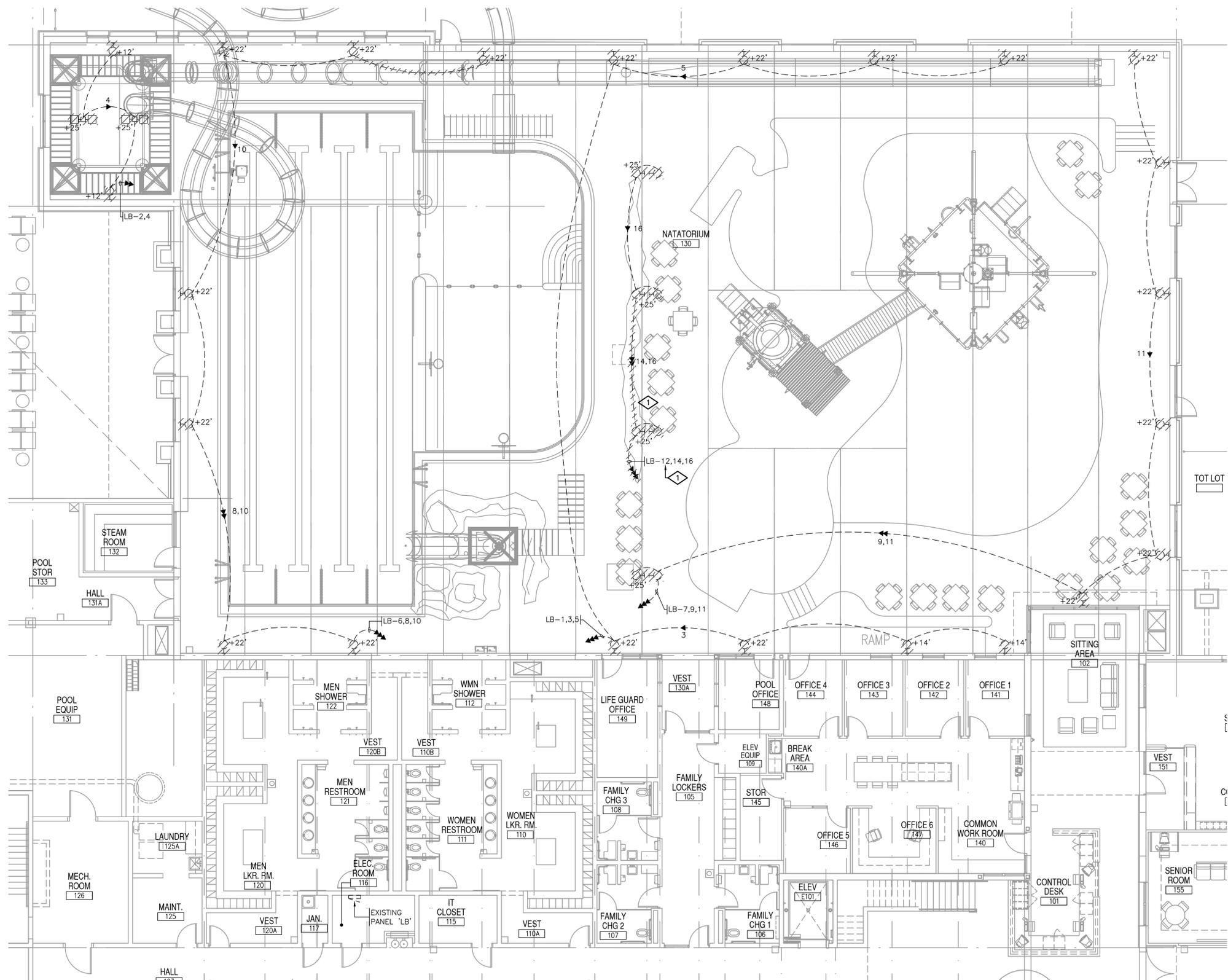


GENERAL NOTES - THIS SHEET ONLY

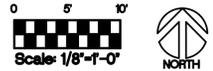
1. ALL FIXTURES SHOWN TO BE REPLACED ONE FOR ONE
- REUSE EXISTING CIRCUITS AND CONTROLS
ACCORDINGLY.

FLAG NOTES - THIS SHEET ONLY

1 REMOVE CIRCUIT TO FIXTURE, TO BE REUSED FOR
NEW OVERHEAD LIGHTING AND RECONNECTED TO
ADJACENT PENDANT, SEE SHEET E1.1.



FAMILY FUN PLEX - DEMO LIGHTING PLAN



GREELEY REC CENTER & FUN PLEX
LIGHTING UPGRADE

GREELEY, COLORADO



JOB 19089
DATE 03/03/2020
DRAWN CAD
CHECKED TP

FAMILY FUN PLEX
POOL - DEMO
LIGHTING PLAN

ED1.1

LIGHTING FIXTURE SCHEDULE - GREELEY REC CENTER								
TYPE	LAMPS	DESCRIPTION	FINISH	MOUNTING	MANUFACT.	CATALOG #	VOLT.	NOTES
A	LED 250W 34800 LUMENS 4000K	250 WATT LED HIGH BAY FIXTURE DUAL HEAD, LOW-IRON TEMPERED GLASS LENS, WIDE 120 DEGREE THROW, WET LISTED, IMPACT RATED, WITH 0-10V DIMMING(10%), CORROSION RESISTANT AND NATATORIUM RATED.	WHITE	SURFACE/ THREADED ROD	GE LIGHTING	ABR1-0-4-T-47-1-N-V-22-A-N-R	MV	1,2

NOTE:
1. THREADED ROD TO BOTTOM OF STRUCTURE.
2. PROVIDE DIMMING CONTROL WIRING ACCORDINGLY.

GENERAL NOTES - THIS SHEET ONLY

1. CONTRACTOR SHALL PROVIDE ENGINEER LIST OF AVAILABLE SPARE CIRCUITS AFTER DEMOLITION IS COMPLETED, PRIOR TO ANY ROUGH-INS, AND AS-BUILT DEMO'ED CIRCUITS ON DEMO PLANS.

FLAG NOTES - THIS SHEET ONLY

1. PROVIDE 0-10 VOLT DIMMER (4400W) WITH LINE VOLTAGE (120/277 VOLT) TOGGLE SWITCH, LEVITON AWSMT-7DW OR APPROVED EQUAL.

2. VERIFY LOCATION WITH OWNER PRIOR TO ANY ROUGH-IN.

Description	Load (kW)	BKR	CKT #	PH.	CKT#	BKR	Load (kW)	Panel	
								Exist 'L1A'	10000 @ 240V
277/480 Voltage								Flush	Mountings
3 Phase 4 Wire								225A MLO	Mains
NEMA 1 Enclosure Rating								100%	Neutral Rating
								No	Isolated Ground Bar
									Description
Main Gym North	20/1	1	A	2	20/1				Spare
Main Gym Center	20/1	3	B	4	20/1				Spare
Main Gym South	20/1	5	C	6	20/1				Spare
Hall M Gym, Locker Rm	20/1	7	A	8	20/1				Spare
Spare	20/1	9	B	10	20/1				Mens Locker Room
Womens Locker Rm	20/1	11	C	12	20/1				Spare
Room 102	20/1	13	A	14	20/1	2.25			POOL LTS ZONE 1
Middle Stairs,Vend, Lob	20/1	15	B	16	20/1	3.00			POOL LTS ZONE 2
Main Floor Restrooms	20/1	17	C	18	20/1	1.50			POOL LTS ZONE 3
Front Stairs, Lobby	20/1	19	A	20	20/1	2.00			POOL LTS ZONE 4
Front Desk	20/1	21	B	22	20/1				Spare
Front Desk Offices	20/1	23	C	24	20/1				Spare
Aux Gym/Pool N Exit	20/1	25	A	26	20/1				Main Gym Stor. Off
#25 101 Hall Single Lts	20/1	27	B	28	20/1				101 Storage
Aux Gym South	20/1	29	C	30	20/1				101 AB Stor. Closets
Aux Gym North	20/1	31	A	32	20/1				Kitchenette
Aux Gym Center	20/1	33	B	34	20/1				Aux Gym Stor/Fmt Dsk
Spare	20/1	35	C	36	20/1				Pool Filtrm, Chlor Rm
Racquetball #3 W	20/1	37	A	38	20/1				Lts Reception
Racquetball #2 C	20/1	39	B	40	20/1				Meeting Rm
Racquetball #1 E	20/1	41	C	42	20/1				Space



GREELEY REC CENTER & FUN PLEX LIGHTING UPGRADE

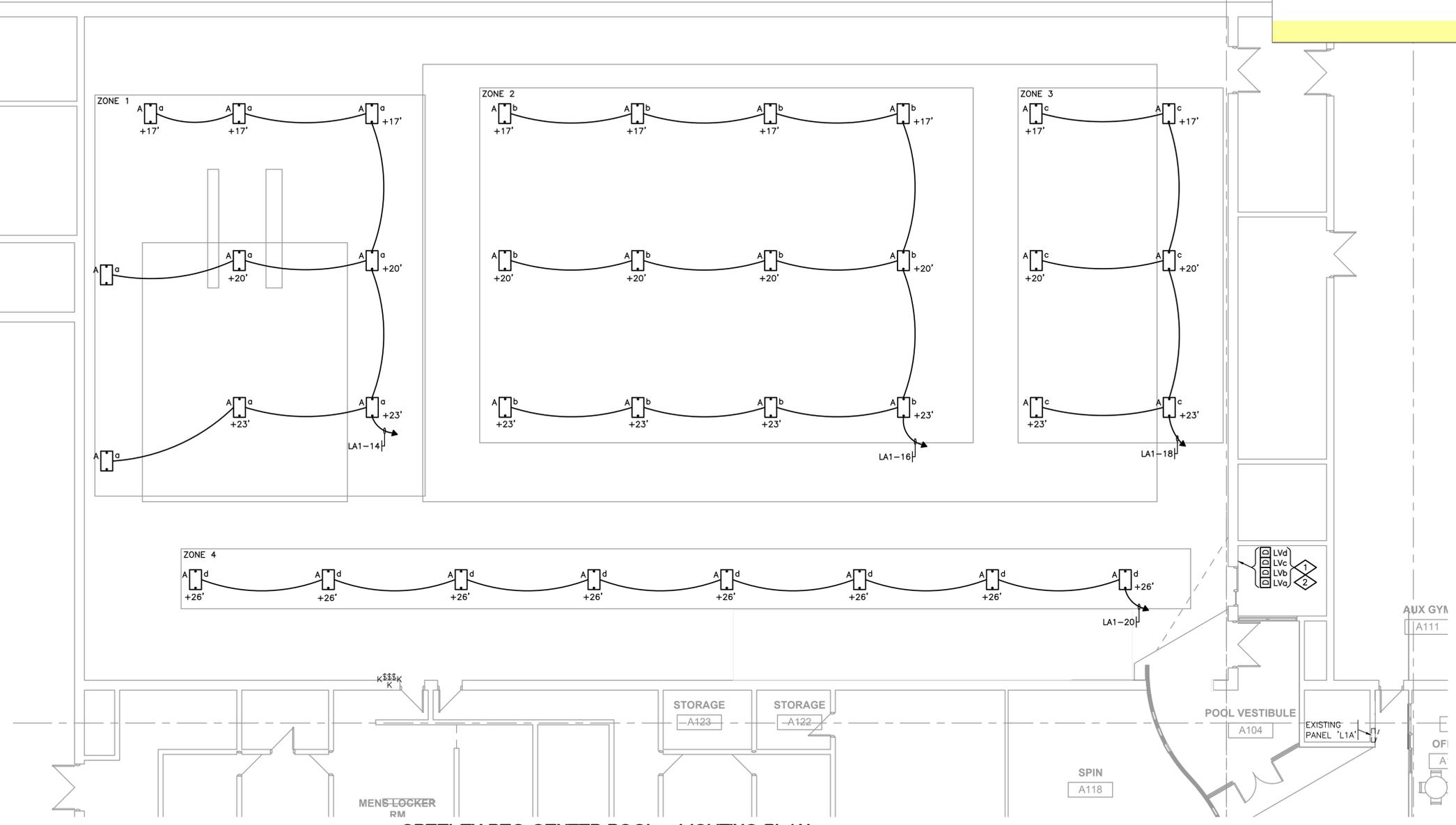
GREELEY, COLORADO



JOB 19089
DATE 03/03/2020
DRAWN CAD
CHECKED TP

GREELEY REC CENTER POOL - LIGHTING PLAN

E1.0



C:\Projects 2019\Greeley Rec Center & Funplex Pool Lighting Upgrade (T) - 19089\Drawings\E1.0.dwg Mar. 06.2020 - 8:26am black



GREELEY REC CENTER & FUN PLEX LIGHTING UPGRADE

GREELEY, COLORADO

Ray Nutt
+ ASSOCIATES, L.L.C.
4648 18TH STREET SUITE 200
GREELEY, COLORADO 80634
GREELEY: (970) 330-3246

JOB 19089
DATE 03/03/2020
DRAWN CAD
CHECKED TP

FAMILY FUN PLEX
POOL - LIGHTING PLAN

E1.1

FLAG NOTES - THIS SHEET ONLY

- 1. CIRCUITS FOR NEW FIXTURES TO BE CONTROLLED VIA EXISTING SMART BREAKER CONTROLS. SEE SHEET E2.0, FOR FURTHER DETAIL.
- 2. FIELD VERIFY LOCATION DURING INSTALLATION.
- 3. CONNECT PENDANT TO EXISTING CIRCUIT.
- 4. REUSE EXISTING OVERHEAD PENDANT CIRCUIT FOR NEW OVERHEAD LIGHTS.

LIGHTING FIXTURE SCHEDULE - FAMILY FUN PLEX									
TYPE	LAMPS	DESCRIPTION	FINISH	MOUNTING	MANUFACT.	CATALOG #	VOLT.	NOTES	
B	LED 178W 23,000 LUMENS 4000K	178 WATT LED HIGH BAY, 120 DEGREE TEMPERED GLASS LENS, HIGH OUTPUT, WET LISTED, IMPACT RATED, CORROSION RESISTANT AND NATATORIUM RATED.	WHITE	WALL MOUNTED @ 45° SEE DWGS	GE LIGHTING	ABR1-0-2-H-47-1-N-N-RB-A-N-R	MV		
B1	LED 178W 23,000 LUMENS 4000K	SAME AS TYPE 'A' EXCEPT SUSPENDED FROM CEILING.	WHITE	THREADED ROD MOUNTED +25'-0" AFF	GE LIGHTING	ABR1-0-2-H-47-1-N-N-22-A-N-R	MV	1	
C	LED 90W 11,800 LUMENS 4000K	90 WATT LED HIGH BAY, 120 DEGREE TEMPERED GLASS LENS, STANDARD OUTPUT, WET LISTED, IMPACT RATED, CORROSION RESISTANT AND NATATORIUM RATED.	WHITE	THREADED ROD MOUNTED +25'-0" AFF	GE LIGHTING	ABR1-0-1-H-47-1-N-N-22-A-N-R	MV	1	
D	LED 90W 11,800 LUMENS 4000K	90 WATT LED HIGH BAY, 120 DEGREE TEMPERED GLASS LENS, STANDARD OUTPUT, WET LISTED, IMPACT RATED, CORROSION RESISTANT AND NATATORIUM RATED.	WHITE	WALL MOUNTED @ 45° +12'-0" AFF	GE LIGHTING	ABR1-0-1-H-47-1-N-N-RB-A-N-R	MV		

NOTES:
1. THREADED ROD TO BOTTOM OF STRUCTURE.

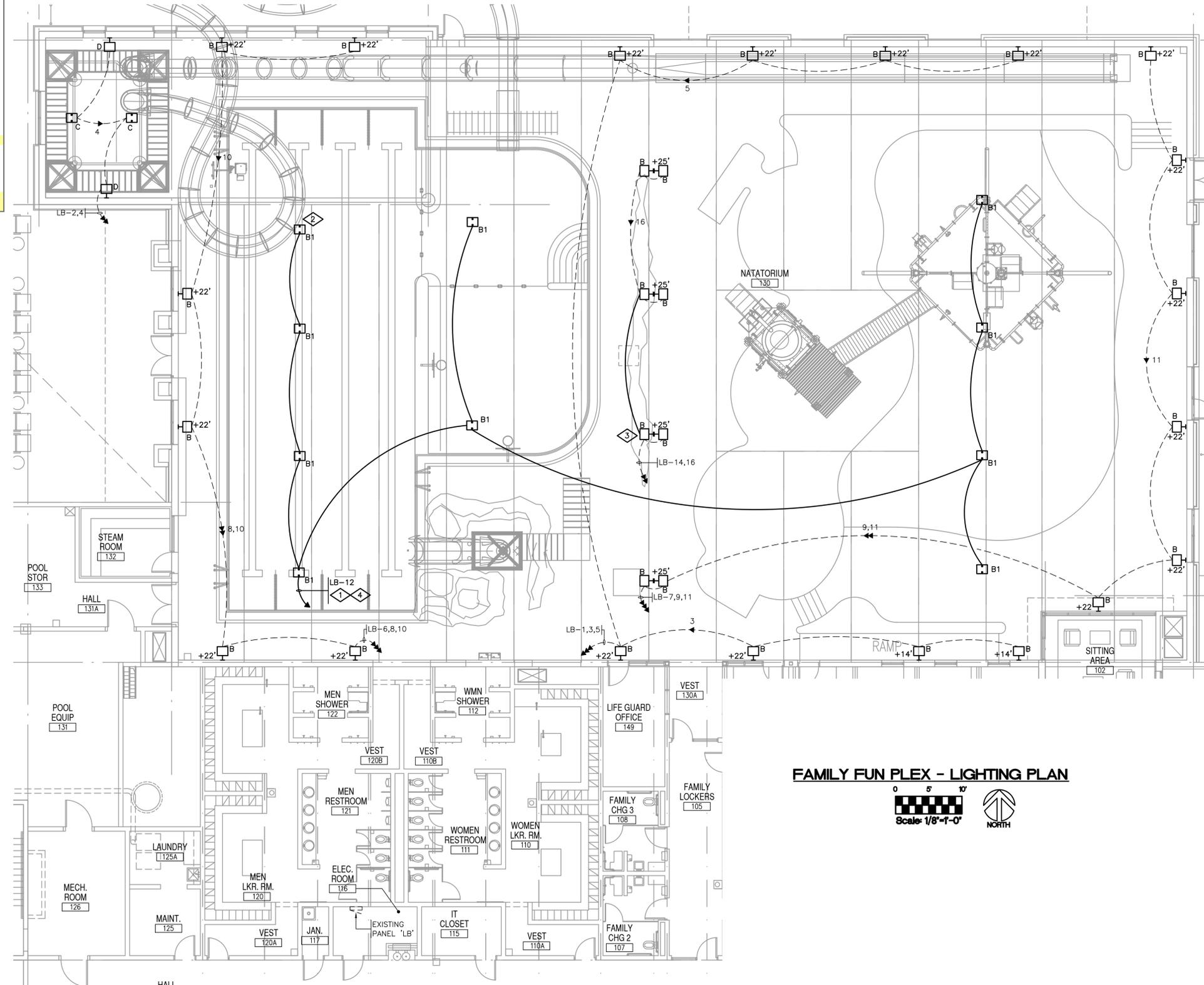
Description	Load (kW)	BKR	CKT #	PH.	CKT #	BKR	Load (kW)	Panel	
								Exist. 'LB'	A/C
Center Pool Lts	0.36	20/1	1	A	2	20/1	0.18	Surface	Mountings
SE Pool Lts	0.53	20/1	3	B	4	20/1	0.18	225A M.O.	Mains
NE Pool Lts	0.53	20/1	5	C	6	20/1	0.36	100%	Neutral Rating
W Pool Lts	0.36	20/1	7	A	8	20/1	0.36	No	Isolated Ground Bar
Center Lts	0.36	20/1	9	B	10	20/1	0.36		
E Pool Lts	0.53	20/1	11	C	12	20/1	1.78		
E Pool Lts	0.53	20/1	13	A	14	20/1	0.71		
Ext. Wall Lts	2.05	20/1	15	B	16	20/1	0.36		
SPARE	20/1	17	C	18	20/1	0.20			
SPARE	20/1	19	A	20	20/1				
SPARE	20/1	21	B	22	20/1	1.13			
SPARE	20/1	23	C	24	20/1				
SPARE	20/1	25	A	26	20/1				
SPARE	20/1	27	B	28	20/1				
SPARE	20/1	29	C	30	20/1				
SPARE	20/1	31	A	32	20/1				
SPARE	20/1	33	B	34	20/1				
SPARE	20/1	35	C	36	20/1				
SPARE	20/1	37	A	38	20/1				
SPARE	20/1	39	B	40	20/1				
SPARE	20/1	41	C	42	20/1	0.15			
Relay Power									

Lighting 10.65 kW AT 125 % Demand = 13.31 kW

*** = BREAKER SHALL REMAIN UNSWITCHED FOR EM LIGHTS**

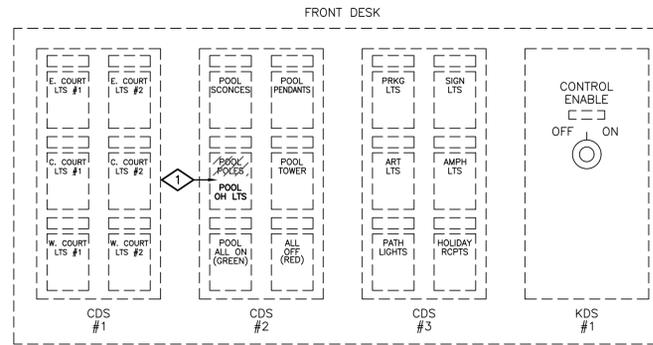
Total Demand =	13.31	kWAT	90	% PF =	14.8	kVA
Feeder Size	14.8	kVA DIVIDED BY VLL x SQRT(3) =	17.8	AMPS	0.0	AMPS
		0% SPARE CAPACITY =	17.8	AMPS TOTAL		

OVERCURRENT PROTECTION: 100A



C:\Projects\2019\Greeley Rec Center & Funplex Pool Lighting Upgrade (T) - 19089\Drawings\E1.1.dwg Mar 06 2020 - 8:26am black

C:\Projects\2019\Greeley Rec Center & Funplex Pool Lighting Upgrade (T) - 19089\Drawings\19089-E20.dwg Mar 06,2020 - 8:27am black



FLAG NOTES - THIS SHEET ONLY	
1	EXISTING "POOL POLES" BUTTON TO BE REPLACED AND REPROGRAMMED TO CONTROL "POOL OH LTS".
2	COORDINATE WITH OWNER IF RELAY CONTROL STILL REQUIRED AND REPROGRAM ACCORDINGLY.



GREELEY REC CENTER & FUN PLEX LIGHTING UPGRADE
GREELEY, COLORADO

LIGHTING CONTROL SCHEDULE							
BANK	BUTTON	NAME	CIRCUITS	DESCRIPTION	ON	OFF	NOTES
POOL	1	POOL SCENES	LB-1,3,5,6,8,9,10,11		NOTE 6	NOTE 8	1, 5
LIGHTS	2	POOL PENDANTS	LB-7,12,14,16		NOTE 6	NOTE 8	1, 5
(CDS #2)	3	POOL POLES	LB-2,3, LB-12	VIA CONTROL RELAY (082404-S-277) 2	NOTE 6	NOTE 8	1, 5
	4	POOL TOWER	LB-2,4		NOTE 6	NOTE 8	1, 5
	5	ALL ON	ALL CDS#2 CONTROLLED CKTS	WHEN TURNED OFF RETURN TO PREVIOUS STATE	NOTE 6	NOTE 8	1, 5,14,18
	6	ALL OFF	ALL CDS#2 CONTROLLED CKTS		NOTE 6	NOTE 8	1,2

ALL SWITCHES SCHEDULED ABOVE SHALL BE MOUNTED BEHIND A COMMON "DECORA" STYLE, MULTI-GANG DEVICE PLATE AT 42" AFF.
 B. ARCHITECT SHALL SELECT COLOR OF SWITCHES AND DEVICE PLATE.
 C. ALL BUTTONS SHALL BE WHITE UNLESS OTHERWISE NOTED.
 D. EC SHALL CONFIRM CIRCUIT #'S CORRESPOND WITH PANEL SCHEDULES, PRIOR TO PROGRAMMING.
 E. EC SHALL INCLUDE TIME FOR PROGRAMMING AND TRAINING IN BID, SEE SPEC. FOR DETAILS
 F. PROGRAMMER SHALL GET APPROVAL FROM OWNER FOR LIGHTING CONTROL REQUIREMENTS AND MAKE REQUIRED ADJUSTMENTS AS REQUIRED.
 G. ACTIVATING OVERRIDE SHALL CAUSE ALL CIRCUITS AND BUTTON LED'S ASSOCIATED WITH OVERRIDE TO CHANGE TO OVERRIDE STATE. PRESSING AN INDIVIDUAL BUTTON WITHIN OVERRIDE GROUP SHALL "TOGGLE" THE ASSOCIATED CIRCUITS.

- SCHEDULE NOTES:
- ALL BUTTONS REQUIRE KEYED ENABLE SWITCH TO BE ON IN ORDER TO OPERATE
 - PROVIDE RED BUTTON
 - CIRCUIT(S) INDICATED CONTROLLED VIA TIMECLOCK AND PHOTOCELL. PROVIDE SEPARATE TIMECLOCK SCHEDULE AND PHOTOCELL TRIGGER FOR EACH GROUP OF CIRCUITS
 - PUSHING BUTTON SHALL CAUSE ALL CIRCUITS ASSOCIATED WITH OVERRIDE TO CHANGE TO OVERRIDE STATE, DE-ACTIVATING OVERRIDE RETURNS CONTROL OF AFFECTED CIRCUITS TO PROGRAMMED CONTROL SCHEDULE.
 - DEFAULT SETTING FOR THESE CIRCUITS IS TO TURN ON AUTOMATICALLY, AT A TIME DEFINED BY THE USER (DAY OF WEEK DEPENDENT)
 - PHOTOCELL ON
 - DEFAULT SETTING FOR THESE CIRCUITS IS TO TURN OFF AUTOMATICALLY, AT A TIME DEFINED BY THE USER (DAY OF WEEK DEPENDENT)
 - OWNER SHALL SELECT WHICH INTERIOR CIRCUITS FLASH PRIOR TO LIGHTS GOING OUT (AND TIME DELAY)
 - TIMECLOCK OFF, AT A TIME DEFINED BY THE USER (DAY OF WEEK DEPENDENT). UNLESS IDENTIFIED AS "NL" ON DWG, THEN PHOTOCELL OFF
 - DEFAULT SETTING FOR THESE CIRCUITS IS TO TURN OFF AUTOMATICALLY, AT A TIME DEFINED BY THE USER (DAY OF WEEK DEPENDENT)
 - PHOTOCELL OFF
 - LIGHTS SHALL BE TIME CLOCK ON/TIME CLOCK OFF & PHOTOCELL ON/TIME CLOCK OFF WHERE NOTED ON DRAWINGS
 - WHEN ALL LIGHTS OFF IS DEPRESSED EGRESS LIGHTS SHALL COME ON AND 1 MINUTE LATER FIELDS SHALL SHUT DOWN. EGRESS SHALL THEN TIME OFF, AT A USER DEFINED INTERVAL.
 - IF BUTTON IS DEPRESSED AFTER LIGHTS FLASH, INDICATING ALL LIGHTS ARE ABOUT TO GO OFF, LIGHTS WILL REQUIRE MANUAL SHUTDOWN "BUILDING OFF" IF BUTTON IS DEPRESSED PRIOR TO TIME ON CYCLE, LIGHTS WILL REMAIN ON UNTIL NEXT TIMED OFF, OR UNTIL A MANUAL SHUTDOWN IS PRESSED.
 - OWNER SELECTED LIGHTS SHALL FLASH AND A USER DEFINED TIMER SHALL BEGIN TIMING TO TURN OFF ALL LIGHTS. TIME OUT CAN BE OVERRIDDEN WITH A MANUAL ON (SEE NOTE 14)
 - EC SHALL FURNISH CONTACTOR (30A, 277V COIL, # POLES AS REQUIRED), IN ELECTRIC ROOM TO CONTROL LOW VOLTAGE CIRCUITS
 - RELAY PANEL SHALL BE WIRED TO THE AUTO POSITION OF THE SOFTBALL FIELD CONTROL PANEL
 - PROVIDE GREEN BUTTON
 - EGRESS LIGHTS CAN BE MANUALLY TURNED ON BY THE BUTTON, OR COME ON AUTOMATICALLY WHEN FIELDS ARE TURNED OFF
 - BOTH SHALL RESULT IN THE EGRESS LIGHTS BEING TIMED OUT BY A USER DEFINED TIME LIMIT
 - CONTROL STATION AT CONTROL DESK IS DISABLED WHEN CONTROL STATION AT SOFTBALL FIELDS IS ENABLED LOCALLY.
- IN THE EVENT OF A FIRE, ALL INTERIOR LIGHTS SHALL TURN ON. LIGHTING CONTROL PANEL SHALL ACCEPT A DRY CONTACT SIGNAL FROM THE FACP VIA A DIGILINK DL2400-EXT-277, CONTACT CLOSURE INTERFACE



JOB	19089
DATE	03/03/2020
DRAWN	CAD
CHECKED	TP

ELECTRICAL SCHEDULES AND DETAILS

E2.0