SAMPLE LIGHTING TAKEOFF · PUBLIC BID DOCUMENTS

Ashman Library Lighting Upgrade

CITY OF MADISON, WI · CONTRACT 8960 · CONSTRUCTION DOCUMENTS DATED 2/9/2021 · 5 SHEETS

SAMPLE

205	48 LF	68	~20	2
Fixtures, 18 types	Track, 2 runs	Control devices	Emergency fixtures on inverter	RFI items before ordering

CATCHES

1. Two fixture types say 2x2 but the catalog number is a 2x4 panel

Types 22R-2000 (6) and 22S-2000 (3) are described as "Recessed 2x2" and "Surface 2x2" on the schedule, but both catalog numbers start `EPANL-2x4`. Nine fixtures could be ordered in the wrong size. RFI before release.

`EL 300, Lighting Fixture Schedule`

2. A straight text count overcounts by 8

Sections 2 and 3 on EL 210 repeat 8 plan tags (22S-3400 ×2, 22S-4000, P-UD-4500-08, T-NFL-1500, SD ×2, S). CR 100 repeats 23 more in the light-level study. Excluded here; plan counts then match the schedule exactly.

`EL 210 details 2 and 3, CR 100`

FIXTURE COUNTS

TYPE	DESCRIPTION	CATALOG NO.	PLAN	SCHEDULE	CHECK
22R-2000	Recessed 2x2	`EPANL-2x4-2000LMHE-40K`	6	6	Size
22R-3400	Recessed 2x2	`EPANL-2x2-3400LMHE-40K`	98	98	Match
22R-4000	Recessed 2x2	`EPANL-2x2-4000LMHE-40K`	9	9	Match
22R-4800	Recessed 2x2	`EPANL-2x2-4800LMHE-40K`	4	4	Match
22S-2000	Surface 2x2	`EPANL-2x4-2000LMHE-40K…2x2SMKSH`	3	3	Size
22S-3400	Surface 2x2	`EPANL-2x2-3400LMHE-40K…2x2SMKSH`	24	24	Match
22S-4000	Surface 2x2	`EPANL-2x2-4000LMHE-40K…2x2SMKSH`	3	3	Match
24R-4000	Recessed 2x4	`EPANL-2x4-4000LMHE-40K`	16	16	Match
P-UD-4500-08	Pendant linear, 80% down	`LedaLite 77-1-1-L-A-C-AG-08…`	16	16	Match
S2 / S3 / S4 / S8	Striplight 2', 3', 4', 8'	`CLX-L24 / L36 / L48 / L96`	2 / 1 / 5 / 3	2 / 1 / 5 / 3	Match
SR-10-2200-W	Surface round, white	`Lightolier S10R-8-40K-22-W`	2	2	Match
T-FL / T-NFL / T-SP	Track heads 38°, 23°, 10°	`Juno T272L-G2-40K-90CRI`	3 / 3 / 3	3 / 3 / 3	Match
TRACK	Track, keynote 8 "length as shown"	Compatible with heads	48 LF	—	Measured
EX-AC	Exit sign, AC	`LQM-S-W-3-R-MVOLT`	4	4	Match

Controls: 23 dual-tech wide-range sensors, 14 wide-range, 6 short-range, 4 high-bay, 1 corner, 15 switch-dimmers, 4 switches, 1 four-circuit timer. Plus one 1.5 kVA battery inverter (335 lb). Track measured at 3/16" = 1'-0".

SPEC AND NOTES CHECKLIST

1. Library stays open. Work in sections, no complete outages, coordinate with staff on site. Price the phasing. `G 001 B.1, I.1`
2. Work hours 6 a.m. to 5 p.m., Monday to Friday, unless approved. `G 001 B.5`
3. UL 924 relays triggered by the existing fire alarm panel. Verify a dry contact is available; add a relay if not. Wire from the panel to every relay. `G 001 B.2, EL 210 KN 13–14, EL 300 det. 6`
4. Emergency fixtures and exits fed from the central inverter. Size the breaker to connected load, provide a wall or floor bracket. `EL 210 KN 1, EL 300`
5. Lockable covers on all switches and dimmers in Reading and Stacks. `EL 210 KN 7, 15, note 6`
6. Replace the existing outdoor lighting timer and control outdoor lighting from the new one. `EL 210 KN 11`
7. Contractor provides ceiling grid changes; owner provides tiles. Sheet metal covers for arch gaps. `EL 210 note 3, KN 2`
8. Three ceiling fans and a fan speed control appear on the lighting sheets under a mechanical spec. Confirm who furnishes and wires them. `EL 300 fan schedule, EL 210 KN 3`
9. Sensor programming per manufacturer settings, confirmed with the engineer. Carry the labor. `EL 300 det. 4`
10. Demolish all fixtures and controls, including items not shown. Remove unused raceway and wire. One space is not in contract. `EL 200`
11. Contractor pulls the permit. Counts on the drawings are for convenience only. `G 001 G.1, A.1, D.2`

Prepared from public bid documents posted by the City of Madison for illustration only. Counts exclude section and study views. Emergency fixture count is approximate from plan symbols; confirm in field. Verify all quantities before bidding.