

UNIFORM COMMERCIAL CODE - FINANCING STATEMENT - FORM UCC-1

This FINANCING STATEMENT is presented for filing pursuant to the Nevada Uniform Commercial Code

Real Estate Records

IMPORTANT: Read instructions on back before filling out form.

Receipt No. _____

1. DEBTOR (ONE NAME ONLY) <input checked="" type="checkbox"/> LEGAL BUSINESS NAME <input type="checkbox"/> INDIVIDUAL (LAST NAME FIRST)		1A. SOCIAL SECURITY OR FEDERAL TAX NO. 88-0066882	
Harveys Casino Resorts, a Nevada Corporation			
1B. MAILING ADDRESS Highway 50 Stateline Avenue	1C. CITY, STATE STATELINE, NV	1D. ZIP CODE 89449	
1E. RESIDENCE ADDRESS Highway 50 Stateline Avenue	1F. CITY, STATE STATELINE, NV	1G. ZIP CODE 89449	

2. ADDITIONAL DEBTOR (IF ANY) (ONE NAME ONLY) <input type="checkbox"/> LEGAL BUSINESS NAME <input type="checkbox"/> INDIVIDUAL (LAST NAME FIRST)		2A. SOCIAL SECURITY OR FEDERAL TAX NO.	
2B. MAILING ADDRESS		2C. CITY, STATE	2D. ZIP CODE
2E. RESIDENCE ADDRESS		2F. CITY, STATE	2G. ZIP CODE

3. ADDITIONAL DEBTOR(S) ON ATTACHED SHEET

4. SECURED PARTY NAME THE CIT GROUP/EQUIPMENT FINANCING, INC. MAILING ADDRESS 900 ASHWOOD PARKWAY, SUITE 600 CITY ATLANTA STATE GA ZIP CODE 30338	4A. SOCIAL SECURITY NO. FEDERAL TAX NO. OR BANK TRANSIT AND A.B.A. NO.
5. ASSIGNEE OF SECURED PARTY (IF ANY) NAME _____ MAILING ADDRESS _____ CITY _____ STATE _____ ZIP CODE _____	5A. SOCIAL SECURITY NO. FEDERAL TAX NO. OR BANK TRANSIT AND A.B.A. NO.

6. This FINANCING STATEMENT covers the following types or items of property (if crops or timber, include description of real property on which growing or to be growing and name of record owner of such real estate; if fixtures, include description of real property to which affixed or to be affixed and name of record owner of such real estate; if oil, gas or minerals, include description of real property from which to be extracted).

Energy Management System as further described on the attached Exhibit A
 This financing statement is to be filed as a fixture filing in the Real Estate Records of Douglas County. The goods referenced above are or are to be affixed to the property described on Exhibit B attached hereto and made a part hereof. See Exhibit B for name of the record owner. Secured party is the owner and debtor is the lessee of the described personal property.

6A. _____ SIGNATURE OF RECORD OWNER

6B. _____ (TYPE) RECORD OWNER OF REAL PROPERTY

6C. \$ _____ MAXIMUM AMOUNT OF INDEBTEDNESS TO BE SECURED AT ANY ONE TIME (OPTIONAL)

7. Check if Applicable <input checked="" type="checkbox"/>	A. <input checked="" type="checkbox"/> Proceeds collateral also covered	B. <input type="checkbox"/> Products of collateral are also covered	C. <input checked="" type="checkbox"/> Proceeds of above described original collateral in which a security interest was perfected (Debtor's Signature Not Required)	D. <input type="checkbox"/> Collateral was brought into this State subject to security interest in another jurisdiction (Debtor's Signature Not Required)
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8. Check if Applicable DEBTOR IS A "TRANSMITTING UTILITY" IN ACCORDANCE WITH NRS 704.205 AND NRS 104.9403. NV-Douglas County

9453-90006975

9. (Date) JUNE 30 19 99

By John McFarland CEO
 Harveys Casino Resorts, a Nevada Corporation

By Aphrodite Campbell ETC
 THE CIT GROUP/EQUIPMENT FINANCING, INC.

11. This Space for Use of Filing Officer: (Date, Time, File Number and Filing Officer)

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10. **Return Copy to:**

The CIT Group/Equipment Financing, Inc.
 NAME 900 Ashwood Parkway, Suite 600
 ADDRESS Atlanta, GA 30338
 CITY, STATE AND ZIP

Trust Account Number (if applicable)

WHITE-Alphabetical; PINK-Acknowledgement; GREEN-Secured Party; BLUE-Debtor.

Exhibit A
 To UCC 1 Financing Statement
 between The CIT Group Equipment Financing, Inc. and Harvey's Casino
 Resorts, a Nevada Corporation

Schedule A Descriptions of ECMs and Equipment

The following is a listing and description of the ECMs to be implemented at Harveys Hotel and Casino, Stateline, Nevada

ECM 1 Steam Traps

Table A.1 Inventory of Steam Traps

Steam Guard Model #	Orifice Dia. In.	Psig	Steam Capacity Lb/Hr	Qty	Steam Guard Model #	Orifice Dia. In.	Psig	Steam Capacity Lb/Hr	Qty
AG 800	0.109	120	61.6	8	2" HNB	0.750	40	1,188.7	17
HNB	0.115	120	68.6	11	AG 800	0.188	15	42.4	5
AG 800	0.109	90	48.1	11	¾ HNB	0.140	15	23.5	5
3/8 TD	0.150	90	91.2	1	1" HN FT	0.250	15	74.9	2
AG 800	0.125	40	33	44	AG 812	0.313	15	117.4	4
¾ HN FT	0.125	40	33	3	AG 811	0.250	15	74.9	1
¾ TD	0.150	40	47.5	6	AG 813	0.375	15	168.5	1
HN FT	0.200	40	84.5	3	½ HNB	0.140	15	23.5	6
AG 883	0.313	40	207	4	1.5 AG FT	0.375	15	168.5	1

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ECM 2 – WATER TREATMENT EQUIPMENT

1- Complete packaged PureTreat® Ionization treatment system for Cooling Towers:

CT 2-1

CT 2-2

CT 2-3

CT 2-4

CT 2-5

CT 2-6

CT 2-7

The system consists of ion generators, pumps, filters, tanks, piping and controls.

1 - Complete packaged GuestCare® ozone laundry treatment system for Hotel Laundry, consisting of ozone generator, pumps, filters, tanks, piping and controls.

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ECM 3 – COGENERATION EQUIPMENT

- A. 4 – 125kw Coast Intelligen® model 2060 engine-generator units with induction generators. Includes appurtenant controls and natural gas supply lines.
- B. Double-walled heat exchanger for potable water system
- C. Stainless steel heat exchanger for building hot water system.

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ECM 4a and ECM 4b Variable Frequency Drives and VFD controls

System Reference	Serving	Motor HP	Existing System Type	Existing Control	New Control
AH-LL1 (Supply/Return)	Lake Tower Lobby	30/10	VAV	N8000	N8000
AH-LL2 (Supply/Return)	Lake Tower Basement	40/15	VAV	Pneumatic	N8000
AH-B1 (Supply/Return)	Lake Tower Basement	20/7.5	VAV	Pneumatic	N8000
AC2-1 (Supply/Return)	Health Club	15/3	VAV	Pneumatic	N8000
AC-C1 (Supply/Return)	Casino Core	50/25	VAV	N8000	N8000
SAU 19-1 (Supply/Return)	Llewelyns Restaurant	30/7.5	VAV	Pneumatic	N8000
SAU 19-2 (Supply/Return)	Lobby Area 19th Floor	15/7.5	VAV	Pneumatic	N8000
AH-1 (Supply)	Mountain Tower Basement & El Vaquero	30	VAV	Pneumatic	N8000
AH-2	Mountain Tower Casino Sect 2,3 and 4	40	VAV	N8000	N8000
AH-3	Buffet	50	VAV	N8000	N8000
AH-4	Mountain Tower Casino Sect 2,3 and 4	15	VAV	N8000	N8000
AH-5 (Supply/Return)	Mountain Tower Keno and Sect 6	15/5	VAV	N8000	N8000
AH-6 (Supply/Return)	Mountain Tower Casino Sect 6 and 7	15/5	VAV	N8000	N8000
AH-7 (Supply/Return)	Mountain Tower Casino Pit 5 and Sect 6	15/5	VAV	N8000	N8000
AH-8 (Supply/Return)	Mountain Tower Casino Mountain Bar	20/7.5	VAV	N8000	N8000
AH-9 (Supply/Return)	Mountain Tower Casino Heavenly Bar	20/7.5	VAV	N8000	N8000

Notes

1. N8000 is Network 8000 EMS
2. VAV is Variable Air Volume

Cooling Tower Fans

System Reference	Serving	Motor HP	Existing System Type	Existing Control	New Control
Cooling Tower Fan 1	Lake Tower Chiller 1	50	Constant Speed Fan with Discharge Dampers	Discharge Damper	VFD
Cooling Tower Fan 2	Lake Tower Chiller 2	50	Constant Speed Fan with Discharge Dampers	Discharge Damper	VFD
Cooling Tower Fan 3	Lake Tower Chiller 3	15	Constant Speed Fan with Discharge Dampers	Discharge Damper	VFD

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Inventory of Graham VFD's

Graham Model Number	Quantity	Nominal HP
VLT 600 H 4.8	1	3
VLT 600 H 8.2	5	5
VLT 600 H 11	3	7.5
VLT 600 H 14	1	10
VLT 600 H 21	7	15
VLT 600 H 27	3	20
VLT 600 H 34	1	25
VLT 600 H 40	3	30
VLT 600 H 52	2	40
VLT 600 H 65	5	50

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ECM 5 Energy Management System Upgrade

Table A.4 DDC Retrofit

System Reference	Serving	System Type	Existing Control	New Control
AH-LL1	Lake Tower Lobby	VAV	N8000	N8000
AH-LL2	Lake Tower Basement	VAV	Pneumatic	N8000
AH-B1	Lake Tower Basement	VAV	Pneumatic	N8000
AH-B2	Lake Tower Laundry	VAV	Pneumatic	N8000
AC-1	Mountain Tower Arcade	CV-Evap	Electronic	N8000
AC-2	Mountain Tower Arcade	CV-Evap	Electronic	N8000
AC2-1	Health Club	VAV	Pneumatic	N8000
AC-C1	Casino Core	VAV	N8000	N8000
SAU-C1/C2	Casino Fan Deck	VAV	N8000	N8000
SAU 19-1	Llewelyns Restaurant	VAV	Pneumatic	N8000
SAU 19-2	Lobby Area 19th Floor	VAV	Pneumatic	N8000
SAU 18-1	Lake Tower Corridor	CAV	Pneumatic	N8000
SAU 18-2	Lake Tower Corridor	CAV	Pneumatic	N8000
MAU-1	Garden Buffet Kitchen	CAV	N8000	N8000
AH-1	Mountain Tower Basement & El Vaquero	VAV	Pneumatic	N8000
AH-2	Mountain Tower Casino Sect 2,3 and 4	VAV	N8000	N8000
AH-3	Buffet	VAV	N8000	N8000
AH-4	Mountain Tower Casino Sect 2,3 and 4	VAV	N8000	N8000
AH-5	Mountain Tower Keno and Sect 6	VAV	N8000	N8000
AH-6	Mountain Tower Casino Sect 6 and 7	VAV	N8000	N8000
AH-7	Mountain Tower Casino Pit 5 and Sect 6	VAV	N8000	N8000
AH-8	Mountain Tower Casino Mountain Bar	VAV	N8000	N8000
AH-9	Mountain Tower Casino Heavenly Bar	VAV	N8000	N8000
AH-10	Mountain Tower 2nd Floor offices and Accounting	Dual Duct	Pneumatic	N8000
AH-11	Mountain Tower Corridor	CV-Evap	Pneumatic	N8000
AH-12	Mountain Tower Corridor	CV-Evap	Pneumatic	N8000
AH-13	Mountain Tower Lobby	Multi Zone	N8000	N8000
AH-14	Mountain Tower Players Bar and Sect 7	Multi Zone	N8000	N8000
AH-15	Mountain Tower Executive Offices	Multi Zone	N8000	N8000
AH-16	Mountain Tower 2nd Floor offices	Dual Duct VAV	N8000	N8000
AH-17	Tunnel and Beauty Shop	CV-Evap	Pneumatic	N8000
AH-18	Carriage House Restaurant	CV-Evap	Pneumatic	N8000
AH-19	Tunnel and Arcade	Multi Zone	Pneumatic	N8000
AH-20	Top Of The Wheel	Multi Zone	Pneumatic	N8000
AH-21	Top Of The Wheel Kitchen	Dual Duct VAV	Pneumatic	N8000
N/A	Replacement Of Delta 1000 Points (340)	Multi Zone	N/A	N8000
N/A	AH-17 Equipment Room Auxiliary Equipment	Dual Duct	None	N8000
N/A	AH-10 and AH-18 Equipment Room Auxiliary Equipment	CAV	None	N8000

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ECM 6 – (Labor Only)

Install customer owned plate and frame exchanger.

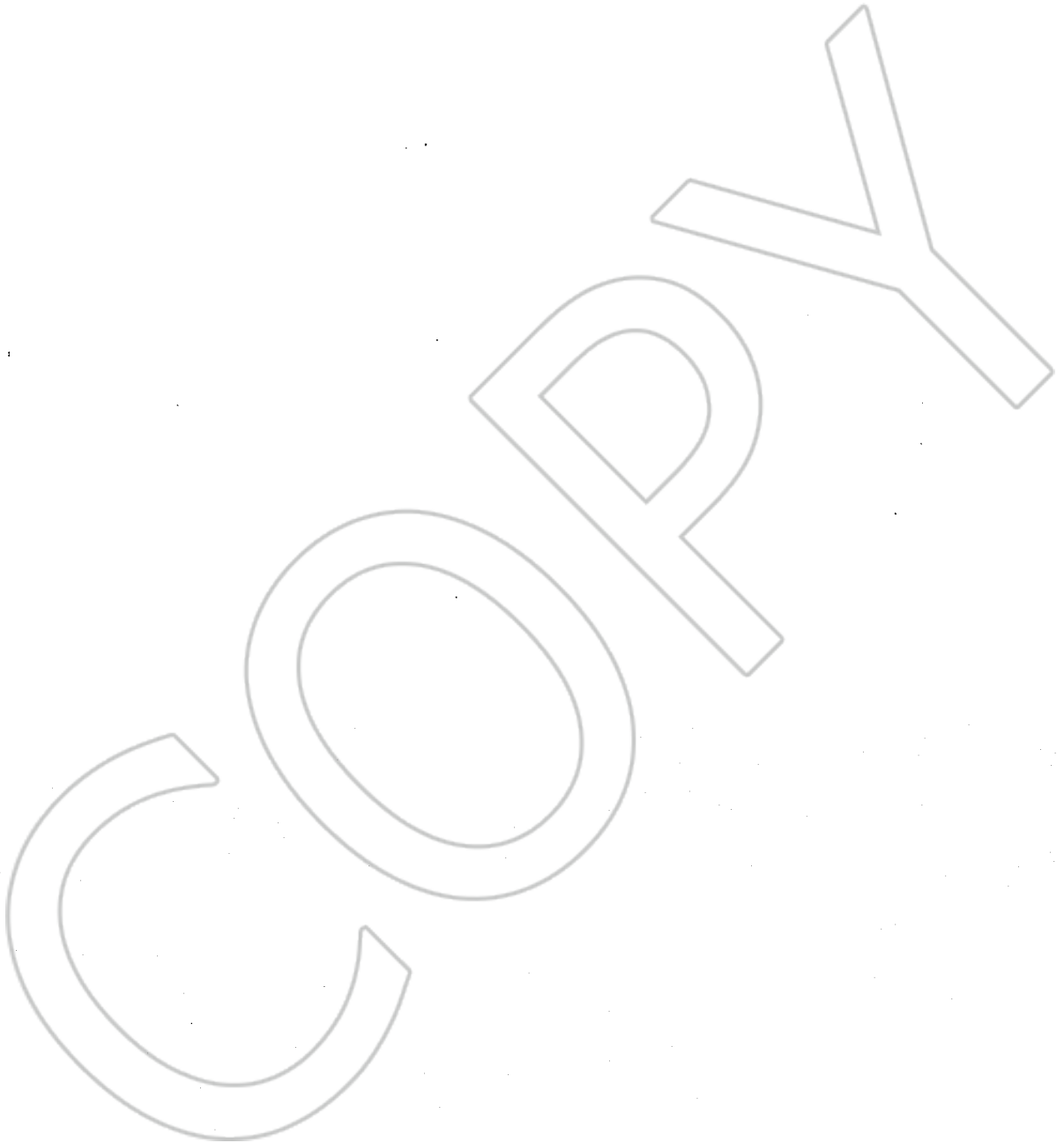
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ECM 7 – ADDITIONAL PLATES FOR HEAT EXCHANGER

A. 106 – Alfa Laval Model A20-B, AISI 316, 0.6mm plates with gaskets



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ECM 8 Energy Efficient Lighting Retrofit

To Follow

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SP#	DESCRIPTION	EXISTING CODE	EXISTING TYPE	DESCRIPTION	LENS	QTY	BURNOUTS	L	OUT	PROPOSED CODE	DESCRIPTION	QTY	POWER CALCULATION			ENERGY USAGE			SAVINGS			MISCELLANEOUS
													EXISTING WATT	EXISTING KW	EXISTING HRS	EXISTING KWH	EXISTING COST	PROPOSED WATT	PROPOSED KW	PROPOSED HRS	PROPOSED KWH	
1	SWITCHGEAR	E14P5	6'x4' Chain Hung, Shop Fixture, w/2' 4" Lamps			13	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	13	86	1.116	66	0.754	8,760	0.794	0.364	3,166		34 WATT @ 1' 28FC
2	PLAN ROOM	E14P5	6'x4' Chain Hung, Shop Fixture, w/2' 4" Lamps			2	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	2	86	0.172	56	0.116	500	86	0.056	28		34 WATT @ 1' 28FC
2	PLAN ROOM	E14S8	6'x4' S/M, Shop Fixture, w/2' 4" Lamps			1	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	1	86	0.086	56	0.056	500	43	0.028	14		34 WATT @ 1' 28FC
3	CHILLER ROOM	E14P5	6'x4' Chain Hung, Shop Fixture, w/2' 4" Lamps			25	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	25	86	2.15	56	1.45	8,760	18,634	0.100	6,132		34 WATT @ 6" 28FC
3A	CHILLER OFFICE	E24R4	2x4', Recessed, w/4' 4" Lamps			2	4			P4F53	Retro, w/4', 4" T8 Lamps, (1) 4-Lamp EB-Lowest	2	172	0.344	100	0.2	8,760	3,013	0.144	1,261		34 WATT @ 6" 28FC
4	BOILER ROOM	E14P5	6'x4' Chain Hung, Shop Fixture, w/2' 4" Lamps			35	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	35	86	3.01	56	2.03	8,760	28,388	0.890	9,565		34 WATT @ 10" 28FC
4	BOILER ROOM	E18P10	6'x8' Chain Hung, Shop Fixture, w/2' 5" H.O. Lamps			5	2			P8F7	Retro, w/4', 6" T8 Lamps, (2) 2-Lamp EBs	5	210	1.05	204	1.03	8,760	9,198	0.020	175		34 WATT @ 1' 28FC
4	BOILER ROOM	E183	Incandescent, Wall Mount, w/1' 91 Watt Lamp			1	1			PPL11	Retro, w/1', 28W PL Unit, w/o Reflector	1	91	0.091	28	0.028	8,760	797	0.093	532		34 WATT @ 1' 28FC
4	BOILER ROOM	E183	Incandescent, Wall Mount, w/1' 91 Watt Lamp			1	1			PPL11	Retro, w/1', 28W PL Unit, w/o Reflector	1	91	0.091	28	0.028	8,760	797	0.093	532		34 WATT @ 1' 28FC
4	BOILER ROOM	E183	Incandescent, Wall Mount, w/1' 91 Watt Lamp			1	1			PPL11	Retro, w/1', 28W PL Unit, w/o Reflector	1	91	0.091	28	0.028	8,760	797	0.093	532		34 WATT @ 1' 28FC
4	BOILER ROOM	E184	Incandescent, Wall Mount, w/1' 150 Watt Lamp			1	1			PPL43	Retro, w/1', 100W Halogen	1	150	0.15	100	0.1	8,760	1,314	0.050	438		NOT IN USE FOR BOILER CONTROL, W/ OPACULE PLATE
4A	STAIR	E14W2	18x4', Wall Mount, w/2' 4" Lamps			5	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	5	86	0.43	56	0.29	8,760	3,767	0.140	1,226		NEED TENE PLATE
4B	HALLWAY	E14S2	18x4', S/M, w/2' 4" Lamps			7	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	7	86	0.602	56	0.406	8,760	5,274	0.186	1,717		9'-0" 20FC
5	GENERATOR ROOM	E14P5	6'x4' Chain Hung, Shop Fixture, w/2' 4" Lamps			17	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	17	86	1.462	56	0.996	8,760	12,807	0.476	4,170		MOTION SENS
5B	AIRWAY	E188	Incandescent, Wall Mount, w/1' 136 Watt Lamp			2	1			PPL39	Retro, w/1', 28W PL Unit, w/Polycarbonate Jar	2	136	0.272	30	0.06	1,500	408	0.212	315		MOTION SENS
6	FIRE PUMP	E14P5	6'x4' Chain Hung, Shop Fixture, w/2' 4" Lamps			3	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	3	86	0.258	56	0.174	5,000	1,290	0.084	420		8" 5 LENSES @ 68FC
7	ENGINEERING	E14S2	18x4', S/M, w/2' 4" Lamps		W	36	2			P4F21	Retro, w/4', 4" T8 Lamp, (1) 4-Lamp EB (Random Wire)	18	86	3.066	106	1.962	8,760	27,121	1.134	9,934		INVOIT SWITCH
7	ENGINEERING	E14S2	18x4', S/M, w/2' 4" Lamps			1	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	1	86	0.086	56	0.058	8,760	753	0.028	245		
7A	ENGINEERING OFFICE	E24R5	2x4', Recessed, w/4' 4" Lamps, INVOIT Switched			4	4			P4F49	Retro, w/4', 4" T8 Lamps, (2) 2-Lamp EBs - Lowest	4	172	0.688	106	0.436	8,760	6,027	0.252	2,206		
7A	ENGINEERING OFFICE	E188	Incandescent, Track Flood, 75 Watt			2	1			NIC	Not in Contract	2	75	0.15	75	0.15						
7B	ENGINEERING BREAAROOM	E24R5	2x4', Recessed, w/4' 4" Lamps, INVOIT Switched			4	4			P4F49	Retro, w/4', 4" T8 Lamps, (2) 2-Lamp EBs - Lowest	4	172	0.688	106	0.436	8,760	6,027	0.252	2,206		
7C	ENGINEERING OFFICE	E24R5	2x4', Recessed, w/4' 4" Lamps, INVOIT Switched			4	4			P4F49	Retro, w/4', 4" T8 Lamps, (2) 2-Lamp EBs - Lowest	4	172	0.688	106	0.436	8,760	6,027	0.252	2,206		
7D	ENGINEERING OFFICE	E24R5	2x4', Recessed, w/4' 4" Lamps, INVOIT Switched			3	4			P4F49	Retro, w/4', 4" T8 Lamps, (2) 2-Lamp EBs - Lowest	3	172	0.516	106	0.327	4,000	2,084	0.189	756		
10	STAIR	E14S9	6'x4', Wall Mount, Box Lens Fixture, w/2' 4" Lamps		OIPQ	2	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	2	86	0.172	56	0.116	8,670	1,481	0.056	488		
10A	STAIR HALLWAY	E14P2	18x4', Pendant, w/2' 4" Lamps		W	2	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	2	86	0.172	56	0.116	8,670	1,481	0.056	488		
10B	STORAGE / OFFICE	E24R4	2x4', Recessed, w/4' 4" Lamps			2	4			P4F53	Retro, w/4', 4" T8 Lamps, (1) 4-Lamp EB-Lowest	2	172	0.344	100	0.2	3,276	1,127	0.144	472		
8	WAREHOUSE	E14S9	6'x4', S/M, Shop Fixture, w/2' 4" Lamps			20	2			P4F21	Retro, w/4', 4" T8 Lamp, (1) 4-Lamp EB (Random Wire)	13	86	2.238	106	1.417	3,640	8,139	0.819	2,981		
8	WAREHOUSE	E14S8	6'x4', S/M, Shop Fixture, w/2' 4" Lamps			1	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	1	86	0.086	56	0.058	3,640	313	0.028	102		
8A	STORAGE	E59	Strip, 4', w/2' 4" Lamps			8	2			P4F21	Retro, w/4', 4" T8 Lamp, (1) 4-Lamp EB (Random Wire)	4	86	0.688	106	0.436	1,560	1,073	0.252	363		8
9	CORRIDOR	E14S10	6'x4', S/M, Box Lens Fixture, w/2' 4" Lamps		W	29	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	29	86	2.494	56	1.662	8,760	21,947	0.812	7,113		8
9A	ELEV. CORRIDOR	E14S10	6'x4', S/M, Box Lens Fixture, w/2' 4" Lamps		W	6	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	6	86	0.516	56	0.348	8,760	4,520	0.168	1,472		
11	STORAGE	E59	Strip, 4', w/2' 4" Lamps			1	2			P4F29	Retro, w/2', 4" T8 Lamps, (1) 2-Lamp EB-Lowest	1	86	0.086	52	0.052	2,912	250	0.034	99		
12	STORAGE	E59	Strip, 4', w/2' 4" Lamps			1	2			P4F29	Retro, w/2', 4" T8 Lamps, (1) 2-Lamp EB-Lowest	1	86	0.086	52	0.052	1,500	129	0.034	51		
13	LAUNDRY SHOOT	E57	Strip, 4', w/1' 4" Lamp			3	1			P4F18	Retro, w/3', 4" T8 Lamp, (1) 3-Lamp EB (Random Wire)	1	56	0.15	64	0.084	2,912	437	0.066	182		
14	STAIR/HALL	E14S10	6'x4', S/M, Box Lens Fixture, w/2' 4" Lamps		W	7	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	7	86	0.602	56	0.406	8,760	5,274	0.196	1,717		
14	STAIR/HALL	E14S10	6'x4', S/M, Box Lens Fixture, w/2' 4" Lamps		W	6	2			P4F25	Retro, w/2', 4" T8 Lamps, (1) EB	6	86	0.516	56	0.348	8,760	4,520	0.168	1,472		

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LIGHTING RETROFIT WORKSHEET
 CONTRACT SUMMARY
 Siskiwit

SP#	DESCRIPTION	EXISTING CODE	EXISTING TYPE	DESCRIPTION	PROPOSED TYPE	CODE	QTY	LIFE	OUT	POWER CALCULATION		ENERGY USAGE		PROPOSED		SAVINGS		MATERIAL COST		LABOR COST		UTILITY REBATE		FOOT CANDLE	MISCELLANEOUS
										EXISTING	PROPOSED	EXISTING	PROPOSED	HRS	KWH	COST	KWH	COST	PER HOUR	TOTAL	PER HOUR	TOTAL	PER HOUR		
STAR 1112	Star, 11' x 18' Lamp, EB	P413	Star, w/1, 4' x 18' Lamp, EB	4	60	0.2	30	0.12	0.70	1.52	8,700	1,061	0.000	701											
STAR 1113	Star, 11' x 18' Lamp, EB	P425	Star, w/2, 4' x 18' Lamp, (1) EB	3	60	0.25	45	0.174	8,700	2,200	8,700	1,624	0.004	708											
STAR 1314	Star, 13' x 14' Lamp, EB	P424	Star, w/4, 4' x 18' Lamp, (1) 4'	1	172	0.172	106	0.109	8,700	1,627	8,700	965	0.003	652											
STAR 1314	Star, 13' x 14' Lamp, EB	P425	Star, w/2, 4' x 18' Lamp, (1) EB	14	60	0.940	84	0.812	8,700	8,287	8,700	7,113	0.134	1,114											
STAR 1314	Star, 13' x 14' Lamp, EB	P421	Star, w/1, 4' x 18' Lamp, EB	2	60	0.1	30	0.06	8,700	878	8,700	628	0.040	350											
STAR 1314	Star, 13' x 14' Lamp, EB	P425	Star, w/2, 4' x 18' Lamp, (1) EB	7	60	0.602	63	0.408	8,700	8,274	8,700	3,667	0.108	1,717											
STAR 1314	Star, 13' x 14' Lamp, EB	P421	Star, w/1, 4' x 18' Lamp, EB	34	60	1.7	30	1.02	8,700	14,882	8,700	9,038	0.000	8,967											
STAR 1314	Star, 13' x 14' Lamp, EB	P425	Star, w/2, 4' x 18' Lamp, (1) EB	8	60	0.43	60	0.29	8,700	3,787	8,700	2,540	0.140	1,226											
STAR 1314	Star, 13' x 14' Lamp, EB	P425	Star, w/2, 4' x 18' Lamp, (1) EB	12	60	1.02	60	0.684	8,700	9,940	8,700	6,097	0.038	2,943											
STAR 1314	Star, 13' x 14' Lamp, EB	P425	Star, w/2, 4' x 18' Lamp, (1) EB	3	60	0.253	30	0.174	8,700	2,200	8,700	1,624	0.004	708											
GRAND TOTAL				370			370	28,320	16,033	222,881	126,471	10,293	80,290												

DEMAND REDUCTION CALCULATION

Diversity Factor: 0.85
 Existing Monthly Lighting Demand: 22.38
 Proposed Monthly Lighting Demand: 13.05
 Summer Demand Savings: 8.71
 Winter Demand Savings: 6.75

DEMAND RATE
 Rate Month: 4
 Rate: 6

ANNUAL DEMAND SAVINGS

16,033
 28,320
 16,033

TOTAL ANNUAL SAVINGS

KWH: 10,293
 KW: 22.4
 \$: 1,327.3

REASONABLENESS CALCULATION

Facility Square-Foot (SF): 4,000
 Existing Monthly Lighting Demand: 22.38
 Proposed Monthly Lighting Demand: 13.05
 Annual Demand Savings: 8.71
 Winter Demand Savings: 6.75

PERCENT SAVINGS

Existing Facility Total: 100.00
 Existing Lighting: 22.38
 % Existing Lighting vs. E.L.: 20%
 Lighting Savings: 8.71
 % Lighting Savings vs. E.L.: 87%

ANNUAL DEMAND SAVINGS

KWH: 10,293
 KW: 22.4
 \$: 1,327.3

0472361

BK0799PG2027

LIGHTING RETROFIT WORKSHEET

Contract Summary
 CONTRACT SUMMARY
 UTILITY RATE

Cabaret

ITEM	DESCRIPTION	EXISTING CODE	NEW CODE	L. OUT	QTY	LENS	DESCRIPTION	DEFINITION	POWER CALCULATION		ENERGY USAGE		PROPOSED		SAVINGS		MATERIAL COST		LABOR COST		UTILITY REBATE		FOOT CANDLE	MISCELLANEOUS	
									EXISTING	PROPOSED	HRS	KWH	WATT	KW	WATT	KW	COST	W/H	COST	W/H	COST	W/H			COST
1	TOILET BOOTH	EX101	EX101	2	2	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	WOMEN'S DRESSING	EX102	EX102	2	2	D	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3	OFFICE	EX103	EX103	3	3	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4	WOMEN'S BATHROOM	EX104	EX104	1	1	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5	MEN'S DRESSING ROOM	EX105	EX105	1	1	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6	MEN'S DRESSING ROOM	EX106	EX106	2	2	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7	SEMI-PRIVATE ROOM	EX107	EX107	2	2	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
8	OFFICE	EX108	EX108	2	2	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	DRESSING ROOM	EX109	EX109	3	3	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10	DRESSING ROOM	EX110	EX110	3	3	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11	OFFICE	EX111	EX111	3	3	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12	CORRIDOR	EX112	EX112	2	2	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
13	CENTRAL	EX113	EX113	2	2	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
14	ELECTRIC ROOM	EX114	EX114	4	4	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
15	LIGHTED PANELS	EX115	EX115	24	24	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
16	BACK BAR	EX116	EX116	8	8	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
17	EXIT-27V	EX117	EX117	10	10	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
18	EXIT-120V	EX118	EX118	3	3	CPA	2x1, 2x1, 2x1	2x1, 2x1, 2x1	100	0.2	840	1.60	840	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
									81	16	81	16	81	16	81	16	81	16	81	16	81	16	81	16	

DEMAND REDUCTION CALCULATION		DEMAND RATE		ANNUAL DEMAND SAVINGS		TOTAL ANNUAL SAVINGS	
Priority Factor	0.8	Rate	\$/KWH	Annual Demand	KWH	Total Savings	\$/YR
Existing Facility Demand	3,100	Rate	\$/KWH	Annual Demand	KWH	Total Savings	\$/YR
Proposed Facility Demand	2,100	Rate	\$/KWH	Annual Demand	KWH	Total Savings	\$/YR
Percent Demand Savings	32%	Rate	\$/KWH	Annual Demand	KWH	Total Savings	\$/YR
Percent Demand Savings	32%	Rate	\$/KWH	Annual Demand	KWH	Total Savings	\$/YR

RESPONSE/LINEER CALCULATION		DEMAND RATE		ANNUAL DEMAND SAVINGS		TOTAL ANNUAL SAVINGS	
Facility Square-Foot (SF)	8000	Rate	\$/KWH	Annual Demand	KWH	Total Savings	\$/YR
Response Factor	0.001	Rate	\$/KWH	Annual Demand	KWH	Total Savings	\$/YR
Annual Demand	8000	Rate	\$/KWH	Annual Demand	KWH	Total Savings	\$/YR
Percent Demand Savings	32%	Rate	\$/KWH	Annual Demand	KWH	Total Savings	\$/YR
Percent Demand Savings	32%	Rate	\$/KWH	Annual Demand	KWH	Total Savings	\$/YR

0472361

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LIGHTING RETROFIT WORKSHEET
 Harveys
 SUMMARY

Lower Level

UTILITY RATE
 0.080000
 0.080000
 0.080000

EPT	DESCRIPTION	QTY	L	QTY	L	OUT	L	QTY	DESCRIPTION	POWER CALCULATION				ENERGY USAGE				SAVINGS				LABOR COST	MATERIAL COST	UTILITY REBATE	FOOT CANDLE	MISCELLANEOUS			
										EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED						EXISTING	PROPOSED	EXISTING
61	HALL ROOM	1		1				1	1	66	0.066	66	0.066	66	0.066	66	0.066	66	0.066	66	0.066	66	0.066	66	0.066	298			
61	HALL ROOM	1		1				1	1	66	0.066	66	0.066	66	0.066	66	0.066	66	0.066	66	0.066	66	0.066	66	0.066	298			
62	FOOD ISSUE	37		37				37	37	172	6.108	100	3.7	8.795	63.489	8.795	63.489	8.795	63.489	8.795	63.489	8.795	63.489	8.795	63.489	2,408	24,212	2,408	24,212
62	FOOD ISSUE	1		1				1	1	81	0.081	28	0.028	8.795	797	8.795	245	0.083	8.795	245	0.083	8.795	245	0.083	8.795	245	0.083	8.795	245
62	FOOD ISSUE	6		6				6	6	95	0.018	65	0.312	8.795	4,820	8.795	2,733	0.204	8.795	2,733	0.204	8.795	2,733	0.204	8.795	2,733	0.204	8.795	2,733
62	FOOD ISSUE	3		3				3	3	182	0.048	28	0.084	2,008	1,533	2,008	238	0.482	2,008	238	0.482	2,008	238	0.482	2,008	238	0.482	2,008	238
62	FOOD ISSUE	6		6				6	6	182	1.092	182	1.092	2,008	3,008	2,008	3,008	0.308	2,008	3,008	0.308	2,008	3,008	0.308	2,008	3,008	0.308	2,008	3,008
62	FOOD ISSUE	2		2				2	2	182	0.384	28	0.056	2,008	1,022	2,008	187	0.308	2,008	187	0.308	2,008	187	0.308	2,008	187	0.308	2,008	187
62	FOOD ISSUE	7		7				7	7	100	0.7	28	0.195	2,008	1,008	2,008	187	0.308	2,008	187	0.308	2,008	187	0.308	2,008	187	0.308	2,008	187
62	FOOD ISSUE	1		1				1	1	85	0.085	65	0.032	2,008	241	2,008	148	0.034	2,008	148	0.034	2,008	148	0.034	2,008	148	0.034	2,008	148
62	FOOD ISSUE	4		4				4	4	172	0.344	65	0.208	3,432	1,181	3,432	714	0.138	3,432	714	0.138	3,432	714	0.138	3,432	714	0.138	3,432	714
62	FOOD ISSUE	18		18				18	18	85	1.548	65	0.308	4,300	670	4,300	4,100	0.012	4,300	4,100	0.012	4,300	4,100	0.012	4,300	4,100	0.012	4,300	4,100
62	FOOD ISSUE	7		7				7	7	182	1.274	28	0.198	4,300	850	4,300	655	1.078	4,300	655	1.078	4,300	655	1.078	4,300	655	1.078	4,300	655
62	FOOD ISSUE	2		2				2	2	182	0.384	28	0.056	4,300	1,884	4,300	245	0.308	4,300	245	0.308	4,300	245	0.308	4,300	245	0.308	4,300	245
62	FOOD ISSUE	6		6				6	6	172	0.602	100	0.8	4,300	2,037	4,300	245	0.102	4,300	245	0.102	4,300	245	0.102	4,300	245	0.102	4,300	245
62	FOOD ISSUE	1		1				1	1	85	0.085	65	0.032	4,300	317	4,300	228	0.034	4,300	228	0.034	4,300	228	0.034	4,300	228	0.034	4,300	228
62	FOOD ISSUE	4		4				4	4	172	0.616	100	0.4	2,000	1,032	2,000	800	0.118	2,000	800	0.118	2,000	800	0.118	2,000	800	0.118	2,000	800
62	FOOD ISSUE	1		1				1	1	85	0.085	30	0.03	2,000	100	2,000	60	0.020	2,000	60	0.020	2,000	60	0.020	2,000	60	0.020	2,000	60
62	FOOD ISSUE	6		6				6	6	85	0.616	68	0.340	870	4,820	870	3,048	0.188	870	3,048	0.188	870	3,048	0.188	870	3,048	0.188	870	3,048
62	FOOD ISSUE	3		3				3	3	85	0.258	65	0.155	500	129	500	78	0.102	500	78	0.102	500	78	0.102	500	78	0.102	500	78
62	FOOD ISSUE	1		1				1	1	172	0.172	100	0.1	870	1,807	870	870	0.072	870	870	0.072	870	870	0.072	870	870	0.072	870	870
62	FOOD ISSUE	1		1				1	1	85	0.085	65	0.032	870	753	870	458	0.034	870	458	0.034	870	458	0.034	870	458	0.034	870	458
62	FOOD ISSUE	2		2				2	2	85	0.172	65	0.1	870	1,807	870	870	0.072	870	870	0.072	870	870	0.072	870	870	0.072	870	870
62	FOOD ISSUE	1		1				1	1	85	0.085	65	0.032	870	753	870	458	0.034	870	458	0.034	870	458	0.034	870	458	0.034	870	458
62	FOOD ISSUE	10		10				10	10	85	1.548	65	0.8	870	13,680	870	7,884	0.448	870	7,884	0.448	870	7,884	0.448	870	7,884	0.448	870	7,884
62	FOOD ISSUE	1		1				1	1	81	0.081	65	0.032	870	797	870	797	0.091	870	797	0.091	870	797	0.091	870	797	0.091	870	797
62	FOOD ISSUE	3		3				3	3	85	0.258	65	0.155	870	2,200	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267
62	FOOD ISSUE	2		2				2	2	78	0.15	28	0.056	870	1,314	870	481	0.094	870	481	0.094	870	481	0.094	870	481	0.094	870	481
62	FOOD ISSUE	2		2				2	2	85	0.172	65	0.110	500	88	500	68	0.058	500	68	0.058	500	68	0.058	500	68	0.058	500	68
62	FOOD ISSUE	1		1				1	1	85	0.085	65	0.032	500	43	500	25	0.038	500	25	0.038	500	25	0.038	500	25	0.038	500	25
62	FOOD ISSUE	11		11				11	11	85	0.948	65	0.633	1,000	848	1,000	600	0.308	1,000	600	0.308	1,000	600	0.308	1,000	600	0.308	1,000	600
62	FOOD ISSUE	4		4				4	4	85	0.344	65	0.2	870	3,013	870	1,732	0.144	870	1,732	0.144	870	1,732	0.144	870	1,732	0.144	870	1,732
62	FOOD ISSUE	7		7				7	7	172	1.204	108	0.763	500	682	500	382	0.441	500	382	0.441	500	382	0.441	500	382	0.441	500	382
62	FOOD ISSUE	3		3				3	3	85	0.258	65	0.155	870	2,200	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267
62	FOOD ISSUE	31		31				31	31	172	6.074	100	3.1	870	4,448	870	1,267	1.974	870	1,267	1.974	870	1,267	1.974	870	1,267	1.974	870	1,267
62	FOOD ISSUE	3		3				3	3	85	0.258	65	0.155	870	2,200	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267
62	FOOD ISSUE	6		6				6	6	85	0.658	65	0.418	870	6,027	870	3,844	0.272	870	3,844	0.272	870	3,844	0.272	870	3,844	0.272	870	3,844
62	FOOD ISSUE	3		3				3	3	85	0.258	65	0.155	870	2,200	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267
62	FOOD ISSUE	3		3				3	3	85	0.258	65	0.155	870	2,200	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267
62	FOOD ISSUE	3		3				3	3	85	0.258	65	0.155	870	2,200	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267
62	FOOD ISSUE	3		3				3	3	85	0.258	65	0.155	870	2,200	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267
62	FOOD ISSUE	3		3				3	3	85	0.258	65	0.155	870	2,200	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267
62	FOOD ISSUE	3		3				3	3	85	0.258	65	0.155	870	2,200	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267	0.102	870	1,267
62	FOOD ISSUE	3		3				3	3	85	0.258	65	0.155	870	2,200	870	1,267	0.102											

LIGHTING RETROFIT WORKSHEET
 Summary
 Lower Level
 UTILITY RATE

ITEM	DESCRIPTION	QTY	L. OUT	PROPOSED TYPE	DESCRIPTION	POWER CALCULATION			ENERGY USAGE			MATERIAL COST			LABOR COST			UTILITY REBATE	FOOT CANDLE	MISCELLANEOUS
						EXISTING WATT	EXISTING KW	EXISTING KWH	PROPOSED WATT	PROPOSED KW	PROPOSED KWH	PROPOSED WATT	PROPOSED KW	PROPOSED KWH	REACH	TOTAL	REACH			
85	REFRIGERATOR	3		RF139	Refrigerator, Standard Surface	100	0.3	30	0.09	1,500	450	1,500	133	0.210	318					
86	HARD COURT	27		RF141	2x4, Fluorescent, w/0' Lamps, (1) 3-Lamp EB	112	4.844	84	2,568	8,790	40,881	8,790	19,868	2,378	20,814					
87	HARD COURT	2		RF151	2x4, Fluorescent, w/0' Lamps, EB	50	0.1	30	0.09	870	87	870	620	0.040	350					
88	HARD COURT	8		RF140	2x4, Fluorescent, w/0' Lamps, (1) 4-Lamp EB	112	1,378	105	0,612	8,790	12,054	8,790	1,838	0.064	4,418					
87	CART STORAGE	3		RF170	2x4, Fluorescent, w/0' Lamps, (1) 2-Lamp EB-Lamp	80	0,258	63	0,156	1,500	307	1,500	254	0.102	153					
88	ELEVATOR	2		RF111	2x4, Fluorescent, w/0' Lamps, w/0' Pendant	91	0.182	20	0,056	870	1,064	870	481	0.128	1,104					
89	ELEVATOR	1		RF211	2x4, Fluorescent, w/0' Lamps, EB	15	0.032	15	0.015	870	200	870	131	0.017	148					
89	SOFT COURT	18		RF140	2x4, Fluorescent, w/0' Lamps, (1) 4-Lamp EB	112	3,086	105	1,802	8,790	21,121	8,790	17,187	1,134	9,954					
91	CAMPVAULT	2		RF153	2x4, Fluorescent, w/0' Lamps, (1) 4-Lamp EB-Lamp	112	0,344	105	0.2	870	3,013	870	1,782	0.144	1,281					
92	HALLWAY	7		RF125	2x4, Fluorescent, w/0' Lamps, (1) EB	60	0.002	56	0.406	870	5,274	870	3,887	0.108	1,717					
93	HALLWAY	1		RF277	2x4, Fluorescent, w/0' Lamps, EB-Lamp	60	0.006	56	0.035	870	753	870	438	0.030	318					
93	SECURITY	6	4	RF141	2x4, Fluorescent, w/0' Lamps, (1) 3-Lamp EB	130	0,610	84	0,504	870	5,500	870	4,418	0.131	1,148					
94	OBSERVATION	7		RF133	2x4, Fluorescent, w/0' Lamps, (1) 2-Lamp EB-Lamp	80	0.002	68	0.434	1,500	903	1,500	232	0.108	232					
95	OFFICE	3		RF133	2x4, Fluorescent, w/0' Lamps, (1) 4-Lamp EB-Lamp	112	0.818	100	0.3	870	4,500	870	2,028	0.218	1,882					
96	OFFICE	2		RF140	2x4, Fluorescent, w/0' Lamps, (1) 2-Lamp EB-Lamp	112	0,344	105	0,218	870	3,013	870	1,910	0.128	1,104					
97	OFFICE	2		RF153	2x4, Fluorescent, w/0' Lamps, (1) 4-Lamp EB-Lamp	112	0,344	105	0.2	870	3,013	870	1,782	0.144	1,281					
98	MISC COUNTS	11		RF140	2x4, Fluorescent, w/0' Lamps, (1) 4-Lamp EB	112	1,882	105	1,199	870	16,574	870	10,803	0.863	6,071					
98	MISC COUNTS	1		RF125	2x4, Fluorescent, w/0' Lamps, EB	60	0.006	56	0.056	870	753	870	481	0.030	233					
99	MISC COUNTS	4		RF125	2x4, Fluorescent, w/0' Lamps, (1) EB	60	0.344	58	0.332	870	3,013	870	2,032	0.112	981					
100	ELEVATOR MACHINE ROOM	1		RF129	2x4, Fluorescent, w/0' Lamps, (1) EB	60	0.006	56	0.056	870	753	870	458	0.034	298					
100	OFFICE	1		RF153	2x4, Fluorescent, w/0' Lamps, (1) EB	112	0.172	100	0.1	870	1,500	870	878	0.072	611					
101	ELEVATOR MACHINE ROOM	1		RF129	2x4, Fluorescent, w/0' Lamps, (1) EB	60	0.006	56	0.056	870	43	870	28	0.028	14					
102	COMMUNICATION CENTER	3		RF129	2x4, Fluorescent, w/0' Lamps, (1) 2-Lamp EB-Lamp	80	0.258	63	0.156	870	2,200	870	1,267	0.102	884					
103	ELECTRIC ROOM	1		RF129	2x4, Fluorescent, w/0' Lamps, (1) 2-Lamp EB-Lamp	80	0.006	62	0.052	870	43	870	28	0.028	14					
103	ELECTRIC ROOM	1		RF141	2x4, Fluorescent, w/0' Lamps, EB-Lamp	75	0.015	40	0.04	870	30	870	20	0.020	18					
104	ELEVATOR MACHINE ROOM	2		RF125	2x4, Fluorescent, w/0' Lamps, EB	60	0.1	30	0.06	870	878	870	628	0.040	350					
104	ELEVATOR MACHINE ROOM	1		RF125	2x4, Fluorescent, w/0' Lamps, EB	32	0.032	15	0.015	870	200	870	131	0.017	149					
105	HOUSEKEEPING	13		RF129	2x4, Fluorescent, w/0' Lamps, (1) EB	112	2,226	84	0,754	870	19,887	870	8,035	1,442	12,983					
105	HOUSEKEEPING	1		RF129	2x4, Fluorescent, w/0' Lamps, (1) 2-Lamp EB-Lamp	80	0.006	62	0.052	870	753	870	458	0.034	298					
105	HOUSEKEEPING	3		RF277	2x4, Fluorescent, w/0' Lamps, EB-Lamp	80	0.258	63	0.18	870	2,200	870	1,214	0.108	945					
106	TELEPHONE EQUIP ROOM	2		RF125	2x4, Fluorescent, w/0' Lamps, (1) EB	60	0.172	58	0.110	1,500	258	1,500	174	0.056	84					
106	JAC EQUIPMENT	5		RF125	2x4, Fluorescent, w/0' Lamps, (1) EB	60	0.82	68	0.29	870	6,058	870	2,540	0.030	619					
106	JAC EQUIPMENT	5		RF125	2x4, Fluorescent, w/0' Lamps, (1) EB	60	0.43	60	0.29	870	3,817	870	2,540	0.160	1,428					
106	JAC EQUIPMENT	1		RF125	2x4, Fluorescent, w/0' Lamps, (1) EB	100	0.1	28	0.029	870	878	870	254	0.071	622					
106	JAC EQUIPMENT	7		RF125	2x4, Fluorescent, w/0' Lamps, (1) EB	80	0.002	68	0.006	870	5,274	870	3,887	0.198	1,717					
106A	ELEVATOR MACHINE ROOM	2		RF130	2x4, Fluorescent, w/0' Lamps, w/0' Pendant	200	0.4	30	0.08	870	200	870	50	0.040	170					
107	MECHANICAL ROOM	9		RF130	2x4, Fluorescent, w/0' Lamps, w/0' Pendant	184	1,856	35	0.27	870	14,897	870	2,363	1,308	12,141					
107	MECHANICAL ROOM	3		RF125	2x4, Fluorescent, w/0' Lamps, EB	112	0.51	103	0.309	870	4,408	870	2,707	0.201	1,781					
107	MECHANICAL ROOM	3		RF125	2x4, Fluorescent, w/0' Lamps, (1) EB	80	0.258	68	0.174	870	2,200	870	1,834	0.084	759					
107	MECHANICAL ROOM	2		RF141	2x4, Fluorescent, w/0' Lamps, EB	50	0.1	30	0.06	870	978	870	628	0.040	350					
107A	LOCK SHOP	3		RF153	2x4, Fluorescent, w/0' Lamps, (1) 4-Lamp EB	112	0.818	100	0.3	2,000	1,032	2,000	600	0.210	432					
108	CORRIDOR	7		RF125	2x4, Fluorescent, w/0' Lamps, (1) EB	60	0.258	58	0.174	870	2,200	870	1,834	0.084	759					
108	CORRIDOR	7		RF125	2x4, Fluorescent, w/0' Lamps, (1) EB	60	0.602	58	0.408	870	5,274	870	3,887	0.198	1,717					
109	ICE ROOM	1		RF129	2x4, Fluorescent, w/0' Lamps, (1) 2-Lamp EB-Lamp	80	0.006	62	0.052	870	753	870	458	0.034	298					

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Lighting Retrofit Worksheet
 Harvey's
 SUMMARY
 Lower Level
 UTILITY RATE

ITEM	DESCRIPTION	QTY	UNIT	PROPOSED TYPE	DESCRIPTION	POWER CALCULATION			ENERGY USAGE			MATERIAL COST			LABOR COST			UTILITY REBATE			FOOT CANDLE	MISCELLANEOUS
						EXISTING	PROPOSED	SAVINGS	EXISTING	PROPOSED	SAVINGS	PERCH	TOTAL	PERCH	TOTAL	PERCH	TOTAL	PERCH	TOTAL	PERCH		
110	SLOP ROOM	2		P4F5	Refr. w/2, 6' TB Lamps, EB	2	170	0.34	103	0.206	100	21								0.134	13	
111	PUMP ROOM	6		P4F25	Refr. w/2, 6' TB Lamps, (1) EB	6	66	0.43	56	0.29	1,500	645								0.140	210	
111	PUMP ROOM	2		P4F48	Refr. w/2, 6' TB Lamps, (1) Lamps EB	2	172	0.344	100	0.218	1,500	816								0.128	188	
112	SLOT REPAIR	5		P4F25	Refr. w/2, 6' TB Lamps, (1) EB	5	66	0.43	66	0.29	6,700	3,787								0.140	1,228	
113	ELECTRICAL	4		P4F25	Refr. w/2, 6' TB Lamps, (1) EB	4	66	0.344	66	0.232	6,700	3,613								0.112	801	
114	SLOTS	12		P4F25	Refr. w/2, 6' TB Lamps, (1) EB	12	66	1.032	66	0.698	6,700	6,040								0.338	2,843	
114	SLOTS	6		P4F48	Refr. w/2, 6' TB Lamps, (1) Lamps EB	6	172	0.80	106	0.545	6,700	7,634								0.318	2,758	
114A	OFFICE	2		P4F25	Refr. w/2, 6' TB Lamps, (1) EB	2	172	0.12	66	0.116	6,700	1,507								0.056	481	
115	PARTS	3		P4F1	Refr. w/1, 6' TB Lamps, EB	3	66	0.16	30	0.09	6,700	1,314								0.060	628	
115	PARTS	3		P4F43	Refr. w/2, 6' TB Lamps, (1) Lamps EB	3	136	0.408	70	0.228	6,700	3,874								0.180	1,877	
116	FREIGHT ELEVATOR	2		P4F11	Refr. w/1, 20W PL Lamps, w/2 Reflector	2	200	0.4	20	0.058	6,700	1,504								0.344	3,013	
117	RECEIVING	2		P4F43	Refr. w/2, 6' TB Lamps, (1) Lamps EB	2	136	0.272	70	0.162	2,000	707								0.120	312	
117	RECEIVING	7		P4F53	Refr. w/2, 6' TB Lamps, (1) Lamps EB	7	172	1.204	100	0.7	2,000	3,130								0.504	1,310	
117	RECEIVING	4		P4F29	Refr. w/2, 6' TB Lamps, (1) Lamps EB	4	66	0.344	66	0.238	2,000	894								0.138	364	
118	ELEVATOR	1		P4F1	Refr. w/1, 6' TB Lamps, EB	1	66	0.09	30	0.03	6,700	438								0.020	178	
119	WINE STORAGE	6		P4F29	Refr. w/2, 6' TB Lamps, (1) Lamps EB	6	66	0.43	66	0.28	6,700	3,787								0.170	1,458	
120	COOLER	2		P4F39	Refr. w/1, 20W PL Lamps, w/2 Reflector	2	100	0.2	30	0.09	500	100								0.140	70	
121	CORRIDOR	50		P4F25	Refr. w/2, 6' TB Lamps, (1) EB	50	66	8.074	66	3.422	500	2,517								1.852	820	
121	CORRIDOR	2		P4F7	Refr. w/2, 2' US TB Lamps, EB	2	66	0.12	66	0.1	6,700	1,507								0.072	631	
122	HALLWAY	2		P4F25	Refr. w/2, 6' TB Lamps, (1) EB	2	66	0.12	66	0.116	6,700	1,507								0.056	481	
123	PAN ROOM	30		P4F39	Refr. w/1, 20W PL Lamps, w/2 Reflector	30	61	2.73	30	0.9	4,000	10,920								1.830	7,320	
124	PBX ROOM	2		P4F53	Refr. w/2, 6' TB Lamps, (1) Lamps EB	2	172	0.344	100	0.2	6,700	3,013								0.144	1,261	
124	PBX ROOM	2		CC	CA, Cap and remove Battery(4)	2	172	0.344			6,700	3,013								0.344	3,013	
124	PBX ROOM	6		P4F25	Refr. w/2, 6' TB Lamps, (1) EB	6	172	1.032	66	0.548	6,700	9,040								0.884	6,952	
124	PBX ROOM	1		P4F29	Refr. w/2, 2' US TB Lamps, EB	1	66	0.086	66	0.05	6,700	753								0.026	318	
124A	BATHROOM	1		P4F29	Refr. w/2, 2' US TB Lamps, EB	1	66	0.086	66	0.052	1,000	86								0.034	34	
125	PBX EQUIPMENT	4		P4F53	Refr. w/2, 6' TB Lamps, (1) Lamps EB	4	172	0.43	100	0.4	3,000	1,280								0.030	80	
125	PBX EQUIPMENT	2		P4F29	Refr. w/2, 6' TB Lamps, (1) Lamps EB	2	66	0.258	66	0.208	3,000	714								0.050	160	
125	PBX EQUIPMENT	1		P4F5	Refr. w/2, 6' TB Lamps, EB	1	170	0.17	103	0.103	3,000	810								0.067	201	
126	PUMP ROOM	1		P4F25	Refr. w/2, 6' TB Lamps, (1) EB	1	66	0.086	66	0.058	1,000	86								0.028	28	
126	PUMP ROOM	1		P4F1	Refr. w/1, 6' TB Lamps, EB	1	66	0.05	30	0.03	1,000	60								0.020	20	
127	STAR 'C			6ER	STARVETLS																	
128	STORAGE	3		P4F25	Refr. w/2, 6' TB Lamps, (1) Lamps EB	3	66	0.238	66	0.156	6,700	2,200								0.102	884	
128A	ELEVATOR PIT	1		P4F39	Refr. w/1, 20W PL Lamps, w/2 Reflector	1	91	0.91	30	0.03	500	48								0.061	31	
129	ELECTRIC ROOM	2		P4F25	Refr. w/2, 6' TB Lamps, (1) EB	2	66	0.12	66	0.116	1,000	172								0.056	66	
130	AC ROOM	2		P4F25	Refr. w/2, 6' TB Lamps, (1) EB	2	66	0.12	66	0.116	600	86								0.056	28	
131	SHOW HALL	1		P4F53	Refr. w/2, 6' TB Lamps, (1) Lamps EB	1	172	0.12	100	0.1	600	60								0.072	36	
132	BEVERAGE STORAGE	4		P4F53	Refr. w/2, 6' TB Lamps, (1) Lamps EB	4	150	0.6	30	0.12	2,000	1,200								0.480	960	
133	MECHANICAL ROOM	1		P4F25	Refr. w/2, 6' TB Lamps, (1) EB	1	66	0.068	66	0.056	1,000	86								0.028	28	
134	SLOT STORAGE	3		P4F53	Refr. w/2, 6' TB Lamps, (1) Lamps EB	3	172	0.16	100	0.3	4,300	2,280								0.218	948	
134	SLOT STORAGE	2		P4F53	Refr. w/2, 6' TB Lamps, (1) Lamps EB	2	172	0.344	100	0.2	4,300	1,507								0.144	631	
135	STORAGE	1		P4F48	Refr. w/2, 6' TB Lamps, (1) Lamps EB	1	172	0.12	100	0.1	2,000	344								0.072	144	
136	ELECTRIC ROOM	1		P4F25	Refr. w/2, 6' TB Lamps, (1) Lamps EB	1	172	0.12	100	0.109	2,000	344								0.060	126	

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LIGHTING RETROFIT WORKSHEET
Harveys
SUMMARY

Lower Level

UTILITY RATE

FUTURE LOCATION	FUTURE DESCRIPTION	LINE	QTY	L	O	OUT	PROPOSED TYPE		DESCRIPTION		POWER CALCULATION		ENERGY USAGE		PROPOSED		SAVINGS		COST		LABOR COST		MATERIAL COST		UTILITY REBATE		FOOT CANDLE	MISCELLANEOUS
							EXISTING CODE	NEW CODE	EXISTING	NEW	EXISTING KW	NEW KW	EXISTING kWh	NEW kWh	EXISTING kWh	NEW kWh	EXISTING kWh	NEW kWh	EXISTING kWh	NEW kWh	EXISTING kWh	NEW kWh	EXISTING kWh	NEW kWh	EXISTING kWh	NEW kWh		
			1182			61					144,788	82,243	848,882	838,864	82,648	411,808												
GRAND TOTAL																												

DEMAND REDUCTION CALCULATION

Diversity Factor: 0.85
 Existing Lighting Demand: 12,137
 Proposed Lighting Demand: 88.88
 Proposed Demand Savings: 12,048
 Without Demand Savings: 12,036

DEMAND RATE
 Rate Month: 6
 Rate: 0

ANNUAL DEMAND SAVINGS

TOTAL ANNUAL SAVINGS

KW
kWh

REASONABLENESS CALCULATION

Facility	Energy Use (kWh)	Rate	Price	Comments
Facility	12,137	0.07		
Existing Lighting Demand	12,137	0.07		
Proposed Lighting Demand	88.88	0.07		
Without Demand Savings	12,048	0.07		

Facility Energy Use (kWh): 12,137
 Existing Lighting Demand: 12,137
 Proposed Lighting Demand: 88.88
 Without Demand Savings: 12,048

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 BK 799 PG 2035

2nd Floor
 LIGHTING RETROFIT WORKSHEET
 Harvey's
 SUMMARY

UTILITY RATE

Material Sum

SP#	DESCRIPTION	EXISTING CODE	DESCRIPTION	LENS	BURNHOURS		QTY	PROPOSED TYPE	DESCRIPTION	QTY	POWER CALCULATION		ENERGY USAGE		PROPOSED		SAVINGS		COST \$/KWH	FOOT CANDLE	MISCELLANEOUS
					L	OUT					EXISTING WATT	RW	EXISTING HRS	RWH	COST	HRS	KWH	COST			
1	OFFICE	INCAN DNL	Not In Contract					NIC													
1A	BATH	Incandescent Drum, w/1 91 Watt Lamp			1		4	PPL11	Retro w/1(1), 26W PL Unit, w/o Reflector	4	91	0.384	28	0.112	1,000	384			0.252	252	
1A	BATH	6"x4", SM, Shop Fixture, w/2 4" Lamps			1	2	1	PAF29	Retro, w/2(2), 4" T8 Lamps, (1) 2-Lamp EB-Lowatt	1	86	0.086	52	0.052	2,600	224			0.034	86	
1B	RECEPTION	Z22, Recessed, w/2 U6 - Lamps		CPA	4	2	4	PZ27	Retro, w/2(2), 2 U6 T8 Lamps, EB-Lowatt	4	86	0.344	50	0.2	2,600	684			0.144	374	
2	FOYER	INCAN DNL	Not In Contract					NIC													
3	OFFICE	Z22, Recessed, w/2 U6 - Lamps		PBC	10	2	10	PZ27	Retro, w/2(2), 2 U6 T8 Lamps, EB-Lowatt	10	86	0.86	50	0.5	2,600	2,226			0.360	936	
3A	BATH	Incandescent Drum, w/1 91 Watt Lamp			2	1	2	PPL11	Retro w/1(1), 26W PL Unit, w/o Reflector	2	91	0.182	28	0.056	1,000	182			0.126	126	
3A	BATH	Strip, 4", w/1 4" Lamp		PBC	2	1	2	PAF4	Retro, w/1(1), 4" T8 Lamp, (1) EB-Lowatt	2	50	0.1	28	0.052	1,000	100			0.048	48	
3B	RECEPTION	Z22, Recessed, w/2 U6 - Lamps		PBC	4	2	4	PZ27	Retro, w/2(2), 2 U6 T8 Lamps, EB-Lowatt	4	86	0.288	50	0.2	2,600	671			0.058	151	
4	EXECUTIVE BOARD ROOM	Strip, 4", w/1 4" Lamp		CPA	16	1	16	PAF21	Retro, w/4(4), 4" T8 Lamps, (1) 4-Lamp EB (Random Wire)	4	50	0.8	109	0.436	1,248	998			0.364	454	1 NOT USED DICKT COUNT INCAN.
4	EXECUTIVE BOARD ROOM	Strip, 4", w/1 4" Lamp		CPA	4	1	4	PAF1	Retro, w/1(1), 4" T8 Lamp, EB	4	50	0.2	30	0.12	1,248	250			0.080	100	DICKT COUNT INCAN.
5	FOYER	INCAN DNL	Not In Contract					NIC													
6	MEETING ROOM	Strip, 4", w/1 4" Lamp			6	1	6	PAF17	Retro, w/2(2), 4" T8 Lamps, (1) 2-Lamp EB (Random Wire)	4	50	0.4	58	0.232	1,248	499			0.168	210	DICKT COUNT INCAN.
7	CONFERENCE ROOM	Strip, 4", w/1 4" Lamp			9	1	9	PAF41	Retro, w/3(3), 4" T8 Lamps, (1) 3-Lamp EB	3	50	0.45	64	0.252	1,248	562			0.198	247	DICKT COUNT INCAN.
8	HALLWAY	Z22, Recessed, w/2 U6 - Lamps		PBC	5	2	5	PZ27	Retro, w/2(2), 2 U6 T8 Lamps, EB-Lowatt	5	86	0.43	50	0.25	3,432	1,476			0.180	618	
9	OFFICE	Z24, Recessed, w/4 4" Lamps		CPA	5	4	5	PAF48	Retro, w/4(4), 4" T8 Lamps, (1) 4-Lamp EB	5	172	0.516	109	0.545	3,432	1,771			0.028	245	
9	OFFICE	Incandescent, Recessed w/1 91 Watt			2	1	2	PPL11	Retro w/1(1), 26W PL Unit, w/o Reflector	2	91	0.182	28	0.056	3,432	625			0.126	432	
9	OFFICE	Incandescent, Standard Surface Mount, 100 Watt			5	1	4	CC	Cut, Cap and remove fixture(s)	5	100	0.1			3,432	343			0.100	343	
10	OFFICE	Z24, Recessed, w/4 4" Lamps, IN/OUT Switched		PBC	2	4	2	PAF49	Retro, w/4(4), 4" T8 Lamps, (2) 2-Lamp EB-Lowatt	2	172	0.344	109	0.218	3,432	1,181			0.126	432	
11	OFFICE	Z24, Recessed, w/4 4" Lamps, IN/OUT Switched		PBC	2	4	2	PAF49	Retro, w/4(4), 4" T8 Lamps, (2) 2-Lamp EB-Lowatt	2	172	0.344	109	0.218	3,432	1,181			0.126	432	
11	OFFICE	Z22, Recessed, w/2 U6 - Lamps		PBC	2	2	2	PZ27	Retro, w/2(2), 2 U6 T8 Lamps, EB-Lowatt	2	86	0.172	50	0.1	3,432	500			0.072	247	
12	STORAGE	E14S2 1x4, SMA, w/2 4" Lamps		W	40	2	20	PAF21	Retro, w/4(4), 4" T8 Lamps, (1) 4-Lamp EB (Random Wire)	20	86	3.44	109	2.16	6,760	30,134			1.260	11,038	NEED 2 LENSES
13	HOLDING	E14S2 1x4, SMA, w/2 4" Lamps		W	14	2	7	PAF21	Retro, w/4(4), 4" T8 Lamps, (1) 4-Lamp EB (Random Wire)	7	86	1.204	109	0.763	6,760	10,547			0.441	3,863	NEED 3 LENSES
13	HOLDING	E14S2 1x4, SMA, w/2 4" Lamps		W	1	2	1	PAF25	Retro, w/2(2), 4" T8 Lamps, (1) EB	1	86	0.086	58	0.055	6,760	753			0.028	245	
13	HOLDING	E10S11 1x8, SMA, w/1 4" Lamp		W	2	4	2	PAF48	Retro, w/4(4), 4" T8 Lamps, (1) 4-Lamp EB	2	172	0.344	109	0.218	6,760	3,013			0.126	1,104	
14	HALLWAY	6"x4", Wall Mount, Box Lens Fixture, w/1 4" Lamp		OPAQUE	3	1	10	PPL11	Retro w/1(1), 26W PL Unit, w/o Reflector	10	91	0.91	28	0.28	6,760	7,972			0.630	5,519	
15	PARTITION STORAGE	6"x4", Wall Mount, Box Lens Fixture, w/1 4" Lamp		OPAQUE	3	1	3	PAF1	Retro, w/1(1), 4" T8 Lamp, EB	3	50	0.1	30	0.09	6,760	876			0.010	86	
16	POOL EQUIPMENT	Strip, 4", w/2 4" Lamps			1	2	1	PAF25	Retro, w/2(2), 4" T8 Lamps, (1) EB	1	86	0.086	58	0.055	1,460	128			0.028	41	
16	POOL EQUIPMENT	11x8, Wall Mount, w/4 4" Lamps			1	4	1	PAF48	Retro, w/4(4), 4" T8 Lamps, (1) 4-Lamp EB	1	172	0.172	109	0.109	1,460	251			0.053	92	
17	VESTIBULE	Incandescent, Recessed w/1 91 Watt			12	1	12	PPL11	Retro w/1(1), 26W PL Unit, w/o Reflector	12	91	1.092	28	0.336	6,760	9,268			0.756	6,623	
18	CORRIDOR	E14W2 1x4, Wall Mount, w/2 4" Lamps			1	2	1	PAF29	Retro, w/2(2), 4" T8 Lamps, (1) 2-Lamp EB-Lowatt	1	86	0.086	52	0.052	6,760	753			0.034	288	
19	REFER	Incandescent Drum, w/2 91 Watt Lamps			2	2	2	PPL11	Retro w/1(1), 26W PL Unit, w/o Reflector	2	182	0.364	28	0.056	6,760	3,169			0.306	2,898	
20	VESTIBULE	Incandescent, Recessed w/1 91 Watt			19	1	19	PPL11	Retro w/1(1), 26W PL Unit, w/o Reflector	19	91	1.729	28	0.532	6,760	15,146			1.197	10,486	
21	STAIR TO FAN	6"x4", Wall Mount, Box Lens Fixture, w/1 4" Lamp		OPAQUE	3	1	3	PAF1	Retro, w/1(1), 4" T8 Lamp, EB	3	50	0.15	30	0.09	2,000	300			0.060	120	
21	STAIR TO FAN	11x4, Wall Mount, w/2 4" Lamps		W	1	2	1	PAF25	Retro, w/2(2), 4" T8 Lamps, (1) EB	1	86	0.086	58	0.055	2,000	172			0.028	56	
22	FAN DECK	Incandescent, Wall Mount, w/1 91 Watt Lamp			25	1	4	PPL11	Retro w/1(1), 26W PL Unit, w/o Reflector	25	91	1.911	28	0.7	2,000	3,622			1.211	2,422	
23	OFFICE	Z22, Recessed, w/2 U6 - Lamps		CPA	2	2	2	PZ27	Retro, w/2(2), 2 U6 T8 Lamps, EB-Lowatt	2	86	0.172	50	0.1	2,200	378			0.072	156	

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2nd Floor

UTILITY RATE

Contract: All Data
Miscellaneous Sum

LIGHTING RETROFIT WORKSHEET

Harvey's SUMMARY

Contract: All Data
Miscellaneous Sum

SP#	DESCRIPTION	EXISTING TYPE	DESCRIPTION	LENS	BURNOUTS		PROPOSED TYPE		DESCRIPTION	QTY	POWER CALCULATION		ENERGY USAGE		SAVINGS		FOOT CANDLE	MISCELLANEOUS	
					QTY	UNIT	EXISTING	PROPOSED			EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED			EXISTING
24	OFFICE	E24R1	Z4, Recessed, w(1) 4' Lamp	CPA	1	4	P4F53	Retro, w(1), 4' T8 Lamp, (1) 4' Lamp EB-Low	1	172	0.172	100	0.1	0.935	1,193	0.072	499		
24	OFFICE	E24R2	Z2, Recessed, w(2) U8 - Lamp	CPA	2	2	P2F7	Retro, w(2), 2' U8 T8 Lamp, EB-Low	2	86	0.172	50	0.1	0.935	1,193	0.072	499		
24	OFFICE	E24R3	Shp. 4', w(1) 4' Lamp	CPA	2	1	P4F4	Retro, w(1), 4' T8 Lamp, (1) EB-Low	2	50	0.1	26	0.052	0.935	694	0.046	333		
25	STORAGE	E25R1	Shp. 4', w(4) 4' Lamp	CPA	2	4	P4F49	Retro, w(4), 4' T8 Lamp, (2) 2-Lamp EBs - Low	2	172	0.215	108	0.218	1,000	215	(0.003)	(1)		
25	STORAGE	E25R2	Shp. 4', w(3) 4' Lamp	CPA	3	3	P4F43	Retro, w(3), 4' T8 Lamp, (1) 3-Lamp EB-Low	3	136	0.3173	76	0.228	0.935	2,201	0.089	620		
25	STORAGE	E25R3	Shp. 4', w(2) 4' Lamp	CPA	1	2	P4F20	Retro, w(2), 4' T8 Lamp, (1) 2-Lamp EB-Low	1	66	0.080	52	0.052	0.935	690	0.034	238		
25A	PUMP ROOM	E14S0	6'x4', S/M, Shop Fixture, w(2) 4' Lamp	CPA	2	2	P4F25	Retro, w(2), 4' T8 Lamp, (1) EB-Low	2	66	0.172	50	0.116	1,000	172	0.058	56		
26	DINING ROOM	E18P12	14x, Pendant, w(4) 4' Lamp	CPA	2	4	P4F46	Retro, w(4), 4' T8 Lamp, (1) 4-Lamp EB	2	172	0.172	108	0.218	1,000	172	(0.046)	(46)		
27	OFFICE	E14S8	6'x4', S/M, Shop Fixture, w(2) 4' Lamp	CPA	2	2	P4F20	Retro, w(2), 4' T8 Lamp, (1) 2-Lamp EB-Low	2	66	0.172	52	0.104	3,000	616	0.068	204		
28	CORRIDOR	E24R1	Z4, Recessed, w(4) 4' Lamp	CPA	8	4	P4F53	Retro, w(4), 4' T8 Lamp, (1) 4-Lamp EB	8	172	1.376	100	0.8	6,760	12,054	0.576	5,046		
29	STORAGE	E68	Incandescent, Recessed w(1) 91 Watt		4	1	P4L11	Retro w(1), 28W PL Unit, w/o Reflector	4	91	0.091	26	0.112	6,760	787	(0.021)	(184)		
30	CORRIDOR	E14S2	14x, S/M, w(2) 4' Lamp	CPA	6	2	P4F25	Retro, w(2), 4' T8 Lamp, (1) EB-Low	6	66	0.516	58	0.348	6,760	4,520	0.168	1,472		NEED 8 LENSES
31	OFFICE	E68	Incandescent, Recessed w(1) 91 Watt		2	1	PR20	Replace Existing w/ (1) New, Z4 Recessed Fixture w(2) 4' T8 Lamp	2	91	0.182	58	0.116	6,760	1,594	0.066	578		
32	ELECTRICAL ROOM	E14P6	6'x4' Chain Hung, Shop Fixture, w(1) 4' Lamp	CPA	1	4	P4F48	Retro, w(4), 4' T8 Lamp, (1) 4-Lamp EB	1	172	0.172	108	0.218	6,760	1,507	0.083	552		
32	ELECTRICAL ROOM	E14S2	14x, S/M, w(2) 4' Lamp	CPA	6	2	P4F25	Retro, w(2), 4' T8 Lamp, (1) EB-Low	6	66	0.516	58	0.348	6,760	4,520	0.168	1,472		
33	STAR #27	E14S13	6'x4', Wall Mount, Box Lens Fixture, w(1) 4' Lamp	CPA	3	1	P4F1	Retro, w(1), 4' T8 Lamp, EB-Low	3	50	0.15	30	0.09	6,760	1,314	0.060	528		
34	CONV. SOUND BOOTY STORAGE	E57	Shp. 4', w(1) 4' Lamp	CPA	9	1	P4F4	Retro, w(1), 4' T8 Lamp, (1) EB-Low	9	50	0.45	26	0.224	1,800	810	0.216	389		
34	STORAGE	E50	Shp. 6', w(2) 4' Lamp	CPA	1	2	P4F20	Retro, w(2), 4' T8 Lamp, (1) 2-Lamp EB-Low	1	86	0.088	52	0.052	1,000	86	0.034	34		
35	ELEVATOR LOBBY	E24R1	Z4, Recessed, w(1) 4' Lamp	CPA	5	4	P4F53	Retro, w(4), 4' T8 Lamp, (1) 4-Lamp EB-Low	5	172	0.85	100	0.5	6,760	7,534	0.360	3,134		
36	MECHANICAL ROOM	E57	Shp. 4', w(1) 4' Lamp	CPA	1	1	P4F4	Retro, w(1), 4' T8 Lamp, (1) EB-Low	1	50	0.05	26	0.028	1,800	90	0.024	43		
37	TV ROOM	E57	Shp. 4', w(1) 4' Lamp	CPA	1	1	P4F4	Retro, w(1), 4' T8 Lamp, (1) EB-Low	1	50	0.05	26	0.028	500	25	0.024	12		
38	STORAGE	E57	Shp. 4', w(1) 4' Lamp	CPA	1	1	P4F4	Retro, w(1), 4' T8 Lamp, (1) EB-Low	1	50	0.05	26	0.028	3,000	150	0.024	72		
39	STORAGE	E24R1	Z4, Recessed, w(2) 4' Lamp	CPA	3	2	P4F20	Retro, w(2), 4' T8 Lamp, (1) 2-Lamp EB-Low	3	86	0.256	52	0.156	1,000	256	0.102	102		
39	STORAGE	E68	Incandescent, Recessed w(1) 91 Watt		5	1	P4L11	Retro w(1), 28W PL Unit, w/o Reflector	5	91	0.455	26	0.14	1,000	455	0.315	315		
40	HALLWAY	E24R1	Z4, Recessed, w(2) 4' Lamp	CPA	4	2	P4F25	Retro, w(2), 4' T8 Lamp, (1) EB-Low	4	66	0.344	58	0.232	3,432	1,161	0.112	364		
41	OFFICE	E24R1	Z4, Recessed, w(4) 4' Lamp	CPA	4	4	P4F53	Retro, w(4), 4' T8 Lamp, (1) 4-Lamp EB-Low	4	172	0.688	100	0.4	3,432	2,361	0.268	968		
42	OFFICE	E24R1	Z4, Recessed, w(4) 4' Lamp	CPA	6	4	P4F53	Retro, w(4), 4' T8 Lamp, (1) 4-Lamp EB-Low	6	172	0.85	100	0.6	3,432	2,862	0.260	892		
43	OFFICE	E24R5	Z4, Recessed, w(4) 4' Lamp, INVOUL Switched	CPA	6	4	P4F49	Retro, w(4), 4' T8 Lamp, (2) 2-Lamp EBs - Low	6	172	1.032	108	0.654	3,432	3,542	0.378	1,297		
44	COPY	E24R1	Z4, Recessed, w(4) 4' Lamp	CPA	1	4	P4F53	Retro, w(4), 4' T8 Lamp, (1) 4-Lamp EB-Low	1	172	0.172	100	0.1	3,432	690	0.072	247		
45	OFFICE	E24R1	Z4, Recessed, w(4) 4' Lamp	CPA	4	4	P4F53	Retro, w(4), 4' T8 Lamp, (1) 4-Lamp EB-Low	4	172	0.688	100	0.4	3,432	2,361	0.268	968		
46	OPEN OFFICE	E24R1	Z4, Recessed, w(4) 4' Lamp	CPA	5	4	P4F53	Retro, w(4), 4' T8 Lamp, (1) 4-Lamp EB-Low	5	172	0.85	100	0.5	3,432	2,962	0.360	1,238		
46	OPEN OFFICE	E22R8	Z2, Recessed, w(2) U8 - Lamp	CPA	1	2	P2F7	Retro, w(2), 2' U8 T8 Lamp, EB-Low	1	86	0.086	50	0.05	3,432	266	0.036	124		
47	OFFICE	E24R1	Z4, Recessed, w(4) 4' Lamp	CPA	2	4	P4F53	Retro, w(4), 4' T8 Lamp, (1) 4-Lamp EB-Low	2	172	0.172	100	0.2	3,432	590	(0.028)	(96)		
47	OFFICE	E22R8	Z2, Recessed, w(2) U8 - Lamp	CPA	2	2	P2F7	Retro, w(2), 2' U8 T8 Lamp, EB-Low	2	86	0.172	50	0.1	3,432	343	0.072	247		
48	OFFICE	E24R1	Z4, Recessed, w(4) 4' Lamp	CPA	5	4	P4F53	Retro, w(4), 4' T8 Lamp, (1) 4-Lamp EB-Low	5	172	0.774	100	0.5	3,432	2,656	0.274	940		75
48	OFFICE	E22R8	Z2, Recessed, w(2) U8 - Lamp	CPA	1	2	P2F5	Retro, w(2), 2' U8 T8 Lamp, EB-Low	1	66	0.066	58	0.056	3,432	295	0.030	100		
49	OFFICE	E24R1	Z4, Recessed, w(4) 4' Lamp	CPA	3	4	P4F53	Retro, w(4), 4' T8 Lamp, (1) 4-Lamp EB-Low	3	172	0.43	100	0.3	3,432	1,476	0.130	446		NEED 3 LENSES
49	OFFICE	E22R8	Z2, Recessed, w(2) U8 - Lamp	CPA	2	2	P2F5	Retro, w(2), 2' U8 T8 Lamp, EB-Low	2	66	0.172	58	0.112	3,432	590	0.060	206		

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2nd Floor
 LIGHTING RETROFIT WORKSHEET
 Harvey's
 SUMMARY

SP#	FUTURE LOCATION	FIXTURE DESCRIPTION	EXISTING TYPE	DESCRIPTION	LENS	QTY	BURNOUTS	L. OUT	PROPOSED TYPE		DESCRIPTION	QTY	POWER CALCULATION			ENERGY USAGE			SAVINGS			FOOT CANDLE	MISCELLANEOUS
									CODE	DESCRIPTION			EXISTING WATT	RW	PROPOSED WATT	RW	EXISTING HRS	RWH	PROPOSED HRS	RWH	EXISTING COST		
90	OFFICE	E24R4	2x4, Recessed, w(4) 4' Lamps	CPA	4	4	2		P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	4	172	0.602	100	0.4	3,432	2,068	3,432	1,373	0.202	693		
91	CORRIDOR	E24R4	2x4, Recessed, w(4) 4' Lamps	CPA	3	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	3	172	0.516	100	0.3	8,760	4,520	8,760	2,620	0.216	1,892		
92	OFFICE	E24R4	2x4, Recessed, w(4) 4' Lamps	CPA	2	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	2	172	0.344	100	0.2	2,600	894	2,600	520	0.144	374		
93	OFFICE	E22R8	2x2, Recessed, w(2) U8 - Lamps	CPA	3	2			P2F7	Retro, w(2), 2' U8 T8 Lamps, EB-Lowvatt	3	86	0.258	50	0.15	2,600	871	2,600	390	0.108	281		
94	COFFEE	E6S3	Incandescent, Recessed Flood, 75 Watt		2	1			PPL22	Retro w(1), 28W PL Unk, wBR10 Reflector	2	75	0.15	28	0.086	2,600	390	2,600	146	0.094	244		
95	COFFEE	E6B1	Incandescent, Wall Mount, w(1) 60 Watt Lamp		2	1			PPL9	Retro w(1), 15W PL Unk, w/o Reflector	2	60	0.12	18	0.039	2,600	312	2,600	94	0.084	218		
96	MEN	E14W2	1x4, Wall Mount, w(2) 4' Lamps		1	2			P4F25	Retro, w(2), 4' T8 Lamps, (1) EB Lamp EB-Lowvatt	1	86	0.086	58	0.056	8,760	753	8,760	508	0.028	245		
97	MEN	E16S13	6x6, S.M. Box Lamp, Fixture, w(4) 4' Lamps		1	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	1	172	0.172	100	0.1	3,432	590	3,432	343	0.072	247		
98	MEN	E6S8	Incandescent, Recessed w(1) 91 Watt		1	1			PPL11	Retro w(1), 20W PL Unk, w/o Reflector	1	91	0.091	28	0.028	3,432	312	3,432	96	0.063	216		
99	WOMEN	E14S9	6x4, Wall Mount, Box Lamp, Fixture, w(2) 4' Lamps		1	2			P4F29	Retro, w(2), 4' T8 Lamps, (1) 2' Lamp EB-Lowvatt	1	66	0.066	52	0.042	3,432	295	3,432	178	0.034	117		
100	WOMEN	E16S13	6x6, S.M. Box Lamp, Fixture, w(4) 4' Lamps		1	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	1	172	0.172	100	0.1	3,432	590	3,432	343	0.072	247		
101	WOMEN	E6B8	Incandescent, Recessed w(1) 91 Watt		1	1			PPL11	Retro w(1), 20W PL Unk, w/o Reflector	1	91	0.091	28	0.028	3,432	312	3,432	96	0.063	216		
102	ADMIN. OFFICES	E22R8	2x2, Recessed, w(2) U8 - Lamps		10	2			P2F7	Retro, w(2), 2' U8 T8 Lamps, EB-Lowvatt	10	86	0.86	50	0.5	3,432	2,852	3,432	1,716	0.360	1,236		
103	ADMIN. OFFICES	E24R4	2x4, Recessed, w(4) 4' Lamps		7	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	7	172	1.204	100	0.7	3,432	4,132	3,432	2,402	0.504	1,730		
104	STORAGE	E22R8	2x2, Recessed, w(2) U8 - Lamps		1	2			P2F7	Retro, w(2), 2' U8 T8 Lamps, EB-Lowvatt	1	86	0.086	50	0.05	3,432	295	3,432	172	0.036	124		
105	OFFICE	E22R8	2x2, Recessed, w(2) U8 - Lamps		3	2			P2F7	Retro, w(2), 2' U8 T8 Lamps, EB-Lowvatt	3	86	0.258	50	0.15	3,432	865	3,432	515	0.108	371		
106	OFFICE	E24R4	2x4, Recessed, w(4) 4' Lamps		2	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	2	172	0.344	100	0.2	3,432	1,181	3,432	668	0.144	494		
107	OFFICE	E24R4	2x4, Recessed, w(4) 4' Lamps		4	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	4	172	0.602	100	0.4	3,432	2,068	3,432	1,373	0.202	693		
108	OFFICE	E22R8	2x2, Recessed, w(2) U8 - Lamps		10	2			P2F7	Retro, w(2), 2' U8 T8 Lamps, EB-Lowvatt	10	86	0.86	50	0.5	3,432	2,852	3,432	1,716	0.360	1,236		
109	OFFICE	E6S7	Incandescent, Recessed w(1) 75 Watt		14	1			NIC	Not In Contract	14	75	1.05	75	1.05	3,432	3,604	3,432	3,604	0.268	968		60
110	OFFICE	E24R4	2x4, Recessed, w(4) 4' Lamps		4	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	4	172	0.688	100	0.4	3,432	2,961	3,432	1,373	0.268	968		
111	OFFICE	E22R8	2x2, Recessed, w(2) U8 - Lamps		2	2			P2F7	Retro, w(2), 2' U8 T8 Lamps, EB-Lowvatt	2	86	0.172	50	0.1	3,432	590	3,432	343	0.072	247		
112	HALLWAY	E22R8	2x2, Recessed, w(2) U8 - Lamps		1	2			P2F7	Retro, w(2), 2' U8 T8 Lamps, EB-Lowvatt	1	86	0.086	50	0.05	3,432	295	3,432	172	0.036	124		
113	HALLWAY	E24R4	2x4, Recessed, w(2) 4' Lamps		1	2			P4F29	Retro, w(2), 4' T8 Lamps, (1) 2' Lamp EB-Lowvatt	1	86	0.086	52	0.052	3,432	295	3,432	178	0.034	117		
114	OFFICE	E24R4	2x4, Recessed, w(4) 4' Lamps		6	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	6	172	1.032	100	0.6	3,432	3,542	3,432	2,059	0.432	1,483		90-110
115	OFFICE	E22R8	2x2, Recessed, w(2) U8 - Lamps		1	2			P2F7	Retro, w(2), 2' U8 T8 Lamps, EB-Lowvatt	1	86	0.086	50	0.05	3,432	295	3,432	172	0.036	124		
116	BOOZE ROOM	E24R1	2x4, Recessed, w(2) 4' Lamps		11	2			P4F29	Retro, w(2), 4' T8 Lamps, (1) 2' Lamp EB-Lowvatt	11	66	0.946	52	0.372	8,760	6,287	8,760	5,011	0.374	3,276		
117	STORAGE	E6S3	Shp. 4', w(2) 4' Lamps		1	2			P4F50	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB & 8' Retrofit (Pre-wired)	1	170	0.17	109	0.09	1,500	255	1,500	164	0.081	92		
118	ICE MACHINE	E6S9	Shp. 4', w(2) 4' Lamps		1	2			P4F29	Retro, w(2), 4' T8 Lamps, (1) 2' Lamp EB-Lowvatt	1	66	0.086	52	0.052	8,760	753	8,760	458	0.034	298		
119	HALLWAY	E24R4	2x4, Recessed, w(4) 4' Lamps		2	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	2	172	0.344	100	0.2	8,760	3,013	8,760	1,732	0.144	1,261		NEED 1 LENS
120	ELEVATOR LOBBY	E6S7	Shp. 4', w(1) 4' Lamp		2	1			P4F4	Retro, w(1), 4' T8 Lamp, (1) EB-Lowvatt	2	50	0.1	26	0.062	8,760	876	8,760	458	0.048	420		
121	OFFICE	E16S11	1x8, S.M. w(4) 4' Lamps		1	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	1	172	0.172	100	0.1	5,840	1,004	5,840	584	0.072	420		
122	OFFICE	E14S2	1x4, S.M. w(2) 4' Lamps		4	2			P4F29	Retro, w(2), 4' T8 Lamps, (1) 2' Lamp EB-Lowvatt	4	66	0.344	52	0.308	5,840	2,009	5,840	1,215	0.136	794		
123	MEN	E16S11	1x8, S.M. w(4) 4' Lamps		1	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	1	172	0.172	100	0.1	8,760	1,507	8,760	876	0.072	631		
124	WOMEN'S	E16S11	1x8, S.M. w(4) 4' Lamps		1	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	1	172	0.172	100	0.1	8,760	1,507	8,760	876	0.072	631		
125	HALLWAY	E14S2	1x4, S.M. w(2) 4' Lamps		1	2			P4F29	Retro, w(2), 4' T8 Lamps, (1) 2' Lamp EB-Lowvatt	1	66	0.086	52	0.052	8,760	753	8,760	458	0.034	298		
126	HALLWAY	E22R8	2x2, Recessed, w(2) U8 - Lamps		2	2			P2F7	Retro, w(2), 2' U8 T8 Lamps, EB-Lowvatt	2	86	0.172	50	0.1	8,760	1,507	8,760	876	0.072	631		
127	HALLWAY	E24R4	2x4, Recessed, w(4) 4' Lamps		6	4			P4F53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowvatt	6	172	1.032	100	0.6	8,760	9,040	8,760	5,256	0.432	3,784		NEED LENSES

0472361

BK0799PG2038

SP#	DESCRIPTION	FEATURE DESCRIPTION	EXISTING TYPE	DESCRIPTION	LENS	BURNOUTS		POWER CALCULATION		ENERGY USAGE		PROPOSED		SAVINGS		FOOT CANDLE	MISCELLANEOUS		
						QTY	LRFT	LRFT	LRFT	QTY	WAIT	RV	RV	HRS	KWH			COST	HRS
73	KITCHEN	E24R1	Zx4, Recessed, w/2) 4' Lamp		CFA	19	4	10	172	3,268	100	1.9	8,760	24,628	8,760	18,644	1,368	11,984	
73A	KITCHEN HOOD	E12R2	1x3, Recessed, w/2) 3' Lamp			15	2	75	1,125	42	0.63	8,760	9,855	8,760	5,519	0,498	4,338		
74	REFEE	E112	Incandescent, Drum, w/2) 91 Wafd Lamp			4	2	182	0,728	26	0.12	8,760	6,377	8,760	981	0,618	3,398		
75	HALL/KITCHEN	E24R1	Zx4, Recessed, w/2) 4' Lamp		CFA	17	2	86	1,482	52	0.884	8,760	12,807	8,760	7,744	0,578	5,083		
76	POT WASH	E24R1	Zx4, Recessed, w/2) 4' Lamp		CFA	5	2	86	0,43	52	0.28	8,760	3,787	8,760	2,278	0,170	1,489		
77	DISHWASHER	E24R4	Zx4, Recessed, w/4) 4' Lamp		CFA	18	4	172	2,752	100	1.8	8,760	24,108	8,760	14,018	1,132	10,092		
77	DISHWASHER	E24R1	Zx4, Recessed, w/2) 4' Lamp		CFA	5	2	86	0,43	52	0.28	8,760	3,787	8,760	2,278	0,170	1,489		
77A	COMPRESSOR ROOM	E24R4	Zx4, Recessed, w/4) 4' Lamp		CFA	1	4	172	0,172	100	0.1	1,000	172	1,000	100	0,072	72	NEED 1 LENS	
78	STAIR																		
79	BAKERY	E24R4	Zx4, Recessed, w/4) 4' Lamp		CFA	28	4	172	4,818	100	2.8	8,760	42,168	8,760	24,528	2,018	17,660		
79A	BAKERY HOODS	E12R2	1x4, Recessed, w/2) 4' Lamp		CFA	3	2	66	0,088	52	0.156	8,760	753	8,760	1,387	(0,070)	(813)		
80	BAKERY STORAGE	E24R1	Zx4, Recessed, w/2) 4' Lamp		CFA	5	2	86	0,43	52	0.28	8,760	3,787	8,760	2,278	0,170	1,489		
81	CHINA/PLATWA RE	E24R1	Zx4, Recessed, w/2) 4' Lamp		CFA	18	2	86	1,378	52	0.938	8,760	12,884	8,760	8,199	0,440	3,854		
81A	HALLWAY	E24R1	Zx4, Recessed, w/2) 4' Lamp		CFA	2	2	86	0,088	52	0.104	8,760	753	8,760	911	(0,016)	(158)		
81A	HALLWAY	E22R8	Zx2, Recessed, w/2) U6 - Lamp		CFA	2	2	86	0,172	50	0.1	8,760	1,507	8,760	878	0,072	831		
81B	WASHING	E24R1	Zx4, Recessed, w/2) 4' Lamp		CFA	6	2	86	0,43	52	0.312	8,760	3,787	8,760	2,733	0,118	1,034		
82	REFER	E112	Incandescent, Drum, w/2) 91 Wafd Lamp			4	2	182	0,728	28	0.112	8,760	6,377	8,760	981	0,818	5,398		
83	FREEZER	E112	Incandescent, Drum, w/2) 91 Wafd Lamp			3	2	182	0,546	182	0,546	8,760	4,783	8,760	4,783				
84	FINISHING ROOM	E24R4	Zx4, Recessed, w/4) 4' Lamp		CFA	8	4	172	1,378	100	0.8	8,760	12,084	8,760	7,098	0,578	5,048		
84A	FINISH ROOM	E12R2	1x3, Recessed, w/2) 3' Lamp		CFA	1	2	75	0,075	42	0,042	8,760	657	8,760	368	0,033	289		
85	PASTRY SHOP	E24R4	Zx4, Recessed, w/4) 4' Lamp		CFA	3	4	172	0,518	100	0.3	8,760	4,520	8,760	2,828	0,218	1,892		
85A	OFFICE	E24R4	Zx4, Recessed, w/4) 4' Lamp		CFA	1	4	172	0,172	100	0.1	8,760	1,507	8,760	878	0,072	831		
86	OFFICE	E24R4	Zx4, Recessed, w/4) 4' Lamp		CFA	4	4	172	0,602	100	0.4	8,760	8,274	8,760	3,504	0,202	1,770		
87	ELEVATOR LOBBY	E24R1	Zx4, Recessed, w/2) 4' Lamp		CFA	2	2	86	0,172	52	0,104	8,760	1,507	8,760	911	0,068	598		
88	FACILITIES	E24R3	Zx4, Recessed, w/2) 4' Lamp		CFA	3	3	138	0,408	76	0,220	3,278	1,337	3,278	747	0,180	590		
88	FACILITIES	E24R1	Zx4, Recessed, w/2) 4' Lamp		CFA	3	2	86	0,258	52	0,156	3,278	845	3,278	811	0,102	334		
88	FACILITIES	E24R4	Zx4, Recessed, w/4) 4' Lamp		CFA	2	4	172	0,344	100	0.2	3,278	1,127	3,278	855	0,144	472		
88	FACILITIES	E24R1	Zx4, Recessed, w/2) 4' Lamp		CFA	4	2	86	0,344	52	0,208	3,278	1,127	3,278	861	0,136	448		
89	OFFICE	E24R3	Zx4, Recessed, w/2) 4' Lamp		CFA	4	3	138	0,544	76	0,304	3,278	1,782	3,278	998	0,240	768		
90	OFFICE	E24R3	Zx4, Recessed, w/2) 4' Lamp		CFA	6	4	172	1,032	108	0,684	3,278	3,381	3,278	2,143	0,378	1,238		
91	MENS	ES9	Strip, 4', w/2) 4' Lamp			6	2	86	0,518	52	0,312	8,760	4,520	8,760	2,733	0,204	1,787		
91	MENS	E22R8	Zx2, Recessed, w/2) U6 - Lamp			10	2	86	0,86	50	0.5	8,760	7,534	8,760	4,380	0,380	3,154		
91A	JANITOR	ES7	Strip, 4', w/1) 4' Lamp			1	1	50	0,05	30	0,03	8,760	438	8,760	283	0,020	175		
92	WOMENS	ES9	Strip, 4', w/2) 4' Lamp			6	2	86	0,518	52	0,312	8,760	4,520	8,760	2,733	0,204	1,787		
92	WOMENS	E22R8	Zx2, Recessed, w/2) U6 - Lamp			10	2	86	0,86	50	0.5	8,760	7,534	8,760	4,380	0,380	3,154		
93	ELECTRICAL ROOM	ES23	Strip, 6', w/3) 6' Lamp			1	2	170	0,17	108	0,09	2,000	340	2,000	218	0,081	122		
94	OFFICE	E24R1	Zx4, Recessed, w/2) 4' Lamp		CFA	2	2	86	0,172	52	0,104	2,000	344	2,000	208	0,068	138	TUBE GUARDS	
95	OFFICE	E24R4	Zx4, Recessed, w/4) 4' Lamp		CFA	6	4	172	1,032	100	0.6	2,000	2,064	2,000	1,200	0,432	864		

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BK0799PG2039

SP#	DESCRIPTION	EXISTING TYPE	DESCRIPTION	LENS	BURNOUTS		PROPOSED TYPE	DESCRIPTION	QTY	POWER CALCULATION			ENERGY USAGE			SAVINGS			FOOT CANDLE	MISCELLANEOUS
					QTY	L				OUT	EXISTING	WAIT	RW	EXISTING	HRS	RWH	COST	ENERGY		
96	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	4	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	4	172	0.658	100	0.4	2,000	1,376	2,000	600	0.248	576	
96	OFFICE	E24R8	Zx2, Recessed, w(2) U6 - Lamps		3	2	P2F7	Retro, w(2), 2' U6 T8 Lamps, EB-Lowest	3	66	0.258	50	0.15	2,000	610	2,000	300	0.108	216	
97	OFFICE	E24R8	Zx2, Recessed, w(2) U6 - Lamps		10	2	P2F7	Retro, w(2), 2' U6 T8 Lamps, EB-Lowest	10	66	0.86	50	0.5	6,760	7,534	6,760	4,380	0.360	3,164	NEED 1 LENS
97	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	3	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	3	172	0.43	100	0.3	6,760	3,767	6,760	2,628	0.130	1,139	
98	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	1	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 2' Lamp EB-Lowest	1	172	0.172	100	0.1	6,760	1,507	6,760	676	0.072	631	
98	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	2	2	PAF53	Retro, w(4), 4' T8 Lamps, (1) 2' Lamp EB-Lowest	2	66	0.172	52	0.104	6,760	1,507	6,760	911	0.068	598	1 FIXTURE NOT USED
99	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	2	2	PAF53	Retro, w(4), 4' T8 Lamps, (1) 2' Lamp EB-Lowest	2	66	0.172	52	0.104	6,760	1,507	6,760	911	0.068	598	
100	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	2	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	2	172	0.344	100	0.2	6,760	3,013	6,760	1,732	0.144	1,261	
101	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	2	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	2	172	0.344	100	0.2	6,760	3,013	6,760	1,732	0.144	1,261	
101	OFFICE	E24R7	Zx2, Recessed, w(2) U6 - Lamp	CPA	1	1	P2F10	Retro, w(1), 2' U6 T8 Lamp, EB-Lowest	1	40	0.04	26	0.026	6,760	350	6,760	228	0.014	123	
102	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	4	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	4	172	0.344	100	0.4	6,760	3,013	6,760	3,504	0.068	(491)	
102	OFFICE	E24R8	Zx2, Recessed, w(2) U6 - Lamps	CPA	2	2	P2F7	Retro, w(2), 2' U6 T8 Lamps, EB-Lowest	2	66	0.172	50	0.1	6,760	1,507	6,760	678	0.072	631	
103	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	2	2	PAF53	Retro, w(4), 4' T8 Lamps, (1) 2' Lamp EB-Lowest	2	66	0.172	52	0.104	6,760	1,507	6,760	911	0.068	598	
103	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	1	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	1	172	0.172	100	0.1	6,760	1,507	6,760	678	0.072	631	
104	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	4	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	4	172	0.602	100	0.4	3,120	1,678	3,120	1,248	0.202	600	
105	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	6	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	6	172	1.032	100	0.6	3,120	3,220	3,120	1,672	0.432	1,348	NEED 1 LENS
105	OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	2	2	PAF53	Retro, w(4), 4' T8 Lamps, (1) 2' Lamp EB-Lowest	2	66	0.172	52	0.104	3,120	637	3,120	324	0.068	212	
105	OFFICE	E14S3	1x4, S/A, w(4) 4' Lamps	W	13	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	13	172	2.236	100	1.3	3,120	6,976	3,120	4,056	0.636	2,620	80-100
105	OFFICE	E14S2	1x4, S/A, w(2) 4' Lamps	W	2	2	PAF53	Retro, w(4), 4' T8 Lamps, (1) 2' Lamp EB-Lowest	2	66	0.172	52	0.104	3,120	637	3,120	324	0.068	212	
105	OFFICE	E24R3	Zx4, Recessed, w(4) 4' Lamps	CPA	2	3	PAF43	Retro, w(3), 4' T8 Lamps, (1) 3' Lamp EB-Lowest	2	136	0.1813	76	0.162	3,120	666	3,120	474	0.029	92	
106	PURCHASING	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	3	2	PAF53	Retro, w(4), 4' T8 Lamps, (1) 2' Lamp EB-Lowest	3	66	0.258	52	0.156	2,600	671	2,600	408	0.102	265	
106	PURCHASING	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	12	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	12	172	2.064	100	1.2	2,600	3,368	2,600	3,120	0.864	2,246	
107	MECHANICAL ROOM	E14P1	1x4, Pendant, w(1) 4' Lamp		1	1	PAF1	Retro, w(1), 4' T8 Lamp, EB	1	50	0.05	30	0.03	2,400	120	2,400	72	0.020	48	
107	MECHANICAL ROOM	E14P2	1x4, Pendant, w(2) 4' Lamps		9	2	PAF25	Retro, w(2), 4' T8 Lamps, (1) EB	9	66	0.774	58	0.522	2,400	1,658	2,400	1,253	0.252	605	
107	MECHANICAL ROOM	E14P3	1x4, Pendant, w(3) 4' Lamps		2	3	PAF41	Retro, w(3), 4' T8 Lamps, (1) 3' Lamp EB	2	136	0.272	64	0.108	2,400	653	2,400	403	0.104	250	
107	MECHANICAL ROOM	E14P4	1x4, Pendant, w(4) 4' Lamps		5	4	PAF40	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB	5	172	0.66	106	0.545	2,400	2,064	2,400	1,308	0.315	756	
108	CORRIDOR	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	13	2	PAF25	Retro, w(2), 4' T8 Lamps, (1) EB	13	66	1.110	58	0.754	6,760	9,784	6,760	6,065	0.364	3,189	
108	CORRIDOR	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	3	4	PAF25	Retro, w(2), 4' T8 Lamps, (1) EB	3	172	0.516	58	0.174	6,760	4,520	6,760	1,524	0.342	2,698	
109	CORRIDOR	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	10	2	PAF25	Retro, w(2), 4' T8 Lamps, (1) EB	10	66	0.66	58	0.58	6,760	7,534	6,760	5,091	0.280	2,463	
110	SLOT OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	9	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	9	172	1.376	100	0.9	6,570	9,040	6,570	5,913	0.470	3,127	
110	SLOT OFFICE	E24R8	Zx2, Recessed, w(2) U6 - Lamps		2	2	P2F7	Retro, w(2), 2' U6 T8 Lamps, EB-Lowest	2	66	0.172	50	0.1	6,570	1,130	6,570	687	0.072	473	
111	SLOT OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	3	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	3	172	0.344	100	0.3	6,570	2,680	6,570	1,971	0.044	289	
112	OFFICE	E24S4	Zx4, S/A, w(4) 4' Lamps	OPAQUE	4	4	PAF48	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB	4	172	0.688	109	0.438	6,570	4,520	6,570	2,885	0.252	1,658	
113	GAMES OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	3	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	3	172	0.43	100	0.3	3,120	3,342	3,120	936	0.130	406	
114	GAMES OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	2	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	2	172	0.344	100	0.2	3,120	1,073	3,120	624	0.144	449	
115	GAMES OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	2	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	2	172	0.344	100	0.2	3,120	1,073	3,120	624	0.144	449	
116	GAMES OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	4	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	4	172	0.688	100	0.4	3,120	2,147	3,120	1,248	0.266	699	
117	GAMES OFFICE	E24R1	Zx4, Recessed, w(4) 4' Lamps	CPA	3	4	PAF53	Retro, w(4), 4' T8 Lamps, (1) 4' Lamp EB-Lowest	3	172	0.516	100	0.3	3,120	1,610	3,120	936	0.216	674	

2nd Floor
UTILITY RATE

LIGHTING RETROFIT WORKSHEET
Harvey's SUMMARY

ITEM #	DESCRIPTION	FIXTURE TYPE	DESCRIPTION	LENS	QTY	BURNOUTS	L_OUT	POWER CALCULATION				ENERGY USAGE				SAVINGS				MISCELLANEOUS				
								EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED			EXISTING		PROPOSED	
								WATT	KW	WATT	KW	HRS	KWH	HRS	KWH	COST	KWH	COST	KWH		COST	KWH	COST	
107	GAMES OFFICE	E24R8	Z4, Recessed, w/(2) U8 - Lamps	CPA	1	2		66	0.066	50	0.05	3,120	268	3,120	156	0.036	112							
110	GAMES OFFICE	E24R4	Z4, Recessed, w/(4) Lamps	CPA	2	4		172	0.344	100	0.2	3,120	1,073	3,120	824	0.144	449							
119	COFFEE	E1S3	Incandescent, Recessed Flood, 75 Watt		2	1		75	0.15	28	0.056	3,120	469	3,120	175	0.094	293							
120	OFFICE	E24R3	Z4, Recessed, w/(3) Lamps	CPA	3	3	1	136	0.407	76	0.226	100	36	100	23	0.135	13	VACANT						
120	OFFICE	E24R4	Z4, Recessed, w/(4) Lamps	CPA	1	4	2	172	0.688	100	0.1	100	9	100	10	(0.014)	(1)							
120	OFFICE	E24R8	Z4, Recessed, w/(2) U8 - Lamps	CPA	1	2		66	0.066	50	0.05	100	9	100	5	0.036	4							
121	OFFICE	E24R4	Z4, Recessed, w/(4) Lamps	CPA	3	4		172	0.516	100	0.3	3,744	1,632	3,744	1,123	0.216	609							
122	OFFICE	E24R4	Z4, Recessed, w/(4) Lamps	CPA	2	4		172	0.344	100	0.2	3,744	1,288	3,744	749	0.144	539							
123	ELECTRICAL ROOM	E24R8	Z4, Recessed, w/(2) U8 - Lamps	CPA	2	2		66	0.172	50	0.1	1,000	172	1,000	100	0.072	72							
124	FRANK DECARLO	E24R4	Z4, Recessed, w/(4) Lamps	CPA	3	4		172	0.516	100	0.3	2,600	1,342	2,600	760	0.216	562							
125	SPECIAL EVENTS	E24R4	Z4, Recessed, w/(4) Lamps	CPA	3	4		172	0.43	100	0.3	2,600	1,118	2,600	760	0.130	338							
125	OFFICE	E24R4	Z4, Recessed, w/(4) Lamps	CPA	3	4		172	0.516	100	0.3	2,600	1,342	2,600	760	0.216	562							
127	OFFICE	E24R4	Z4, Recessed, w/(4) Lamps	CPA	2	4	2	172	0.258	100	0.2	2,600	671	2,600	620	0.058	151							
128	OFFICE	E24R4	Z4, Recessed, w/(4) Lamps	CPA	4	4	2	172	0.682	100	0.4	2,600	1,568	2,600	1,040	0.202	525							
129	PURCHASING OFFICE	E24R4	Z4, Recessed, w/(4) Lamps	CPA	24	4	6	172	3.87	100	2.4	2,600	10,082	2,600	6,240	1,470	3,622							
129	PURCHASING OFFICE	E24R8	Z4, Recessed, w/(2) U8 - Lamps	CPA	2	2		66	0.066	50	0.1	2,600	224	2,600	260	(0.014)	(9)							
129A	COFFEE ROOM	E24R4	Z4, Recessed, w/(4) Lamps	CPA	1	4		172	0.172	100	0.1	2,600	447	2,600	260	0.072	167	NEED LENS						
130	COMPUTER ROOM	E24R8	Z4, Recessed, w/(2) U8 - Lamps	CPA	29	2	6	66	2.15	50	1.45	6,760	18,634	6,760	12,702	0.700	6,132							
131	COMPUTER OFFICE	E24R8	Z4, Recessed, w/(2) U8 - Lamps	CPA	4	2		66	0.344	50	0.2	6,760	3,013	6,760	1,732	0.144	1,261							
132	COMPUTER OFFICE	E24R8	Z4, Recessed, w/(2) U8 - Lamps	CPA	1	2		66	0.066	50	0.05	6,760	753	6,760	438	0.038	315							
132	COMPUTER OFFICE	E24R8	Z4, Recessed, w/(2) U8 - Lamps	CPA	2	2		66	0.172	50	0.1	6,760	1,507	6,760	878	0.072	631							
133	OFFICE	E24R1	Z4, Recessed, w/(2) Lamps	CPA	3	2	2	66	0.172	52	0.156	3,120	537	3,120	487	0.016	50							
134	OFFICE	E24R4	Z4, Recessed, w/(4) Lamps	CPA	3	4	4	172	0.344	100	0.3	3,120	1,073	3,120	938	0.044	137							
135	OFFICE	E24R4	Z4, Recessed, w/(4) Lamps	CPA	4	4	4	172	0.516	100	0.4	3,120	1,610	3,120	1,248	0.116	362							
136	HALLWAY	E24R1	Z4, Recessed, w/(2) Lamps	CPA	1	2		66	0.066	55	0.058	3,120	268	3,120	161	0.028	87							
136	HALLWAY	E24R8	Z4, Recessed, w/(2) U8 - Lamps	CPA	1	2		66	0.066	50	0.05	3,120	268	3,120	156	0.038	112							
137	ARCHIVES	E24R1	Z4, Recessed, w/(2) U8 - Lamps	CPA	1	2	2	66		50	0.05	2,340		2,340	117	(0.050)	(117)							
137	ARCHIVES	E24R1	Z4, Recessed, w/(2) Lamps	CPA	6	2		66	0.516	52	0.312	2,340	1,207	2,340	730	0.204	477							
138	CLOSET	E172	Incandescent, Standard Surface Mount, 100 Watt		1	1		100	0.1	28	0.028	500	50	500	14	0.072	38							
139	OFFICE	E24R4	Z4, Recessed, w/(4) Lamps	CPA	13	4	8	172	1.692	100	1.3	2,340	4,427	2,340	3,042	0.592	1,385							
139	OFFICE	E24R8	Z4, Recessed, w/(2) U8 - Lamps	CPA	2	2		66	0.172	50	0.1	2,340	402	2,340	234	0.072	168							
140	STAIR	E1S3	Incandescent, Recessed Flood, 75 Watt		2	1		75	0.15	26	0.056	2,340	351	2,340	131	0.094	220							
141	ADMIN. OFFICE	E1MS12	6x4, S/M, Box Lens Fixture, w/(1) Lamps	CPA	8	1		50	0.4	109	0.218	2,340	938	2,340	510	0.182	420							
141	ADMIN. OFFICE	E1MS12	6x4, S/M, Box Lens Fixture, w/(1) Lamps	CPA	2	1		50	0.1	30	0.08	2,340	234	2,340	140	0.040	94							
141	ADMIN. OFFICE	E1MS10	6x4, S/M, Box Lens Fixture, w/(2) Lamps	CPA	3	2		66	0.258	52	0.156	2,340	604	2,340	365	0.102	239							
142	OFFICE	E1MS3	1x4, S/M, w/(1) Lamps	W	3	4		172	0.516	100	0.3	2,340	1,207	2,340	702	0.216	505							
143	OFFICE	E1MS3	1x4, S/M, w/(1) Lamps	W	3	4		172	0.516	100	0.3	2,340	1,207	2,340	702	0.216	505							
144	STAIR LANDING	E1MP4	1x4, Pendant, w/(4) Lamps	CPA	1	4		172	0.172	109	0.109	6,760	1,507	6,760	855	0.083	552							

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2nd Floor
 LIGHTING RETROFIT WORKSHEET
 Harvey's
 SUMMARY

SP#	FUTURE LOCATION	EXISTING DESCRIPTION	EXISTING CODE	EXISTING TYPE	DESCRIPTION	LENS	BURNOUTS		UTILITY RATE		POWER CALCULATION		ENERGY USAGE		PROPOSED		SAVINGS		FOOT CANDLE	MISCELLANEOUS
							QTY	LUMEN	WATT	KWH	WATT	KWH	WATT	KWH	WATT	KWH	KWH	KWH		
167	OFFICE	E24R1 Zx4, Recessed, w/(4) 4' Lamps	E24R1	Zx4, Recessed, w/(4) 4' Lamps	CFA	3	4	2	172	0.43	100	0.3	2,340	1,006	2,340	702	0.130	304		
168	OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	6	2		66	0.316	50	0.3	2,340	1,207	2,340	702	0.216	508		
169	HALLWAY	E24R4 Zx4, Recessed, w/(4) 4' Lamps	E24R4	Zx4, Recessed, w/(4) 4' Lamps	CFA	2	4		172	0.344	106	0.216	2,340	605	2,340	510	0.128	296		
170	CONTROLLERS OFFICE	E24R1 Zx4, Recessed, w/(4) 4' Lamps	E24R1	Zx4, Recessed, w/(4) 4' Lamps	CFA	3	4		172	0.316	100	0.3	2,340	1,207	2,340	702	0.216	505		
171	OFFICE	E24R5 Zx4, Recessed, w/(4) 4' Lamps	E24R5	Zx4, Recessed, w/(4) 4' Lamps	CFA	2	4		172	0.344	106	0.216	2,340	605	2,340	510	0.128	296		
172	OFFICE	E24R5 Zx4, Recessed, w/(4) 4' Lamps	E24R5	Zx4, Recessed, w/(4) 4' Lamps	CFA	2	4		172	0.344	106	0.216	2,340	605	2,340	510	0.128	296		
173	OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	4	2		66	0.344	50	0.2	2,340	805	2,340	468	0.144	337		
174	OFFICE	E24R4 Zx4, Recessed, w/(4) 4' Lamps	E24R4	Zx4, Recessed, w/(4) 4' Lamps	CFA	2	4		172	0.344	100	0.2	2,340	805	2,340	468	0.144	337		
174	OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	2	2		66	0.172	50	0.1	2,600	447	2,600	280	0.072	187		
175	SALES OFFICE	E24R1 Zx4, Recessed, w/(4) 4' Lamps	E24R1	Zx4, Recessed, w/(4) 4' Lamps	CFA	4	4		172	0.680	100	0.4	2,600	1,769	2,600	1,040	0.268	748		
175	SALES OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	2	2		66	0.172	50	0.1	2,600	447	2,600	290	0.072	187		
176	HALLWAY	E24R1 Zx4, Recessed, w/(4) 4' Lamps	E24R1	Zx4, Recessed, w/(4) 4' Lamps	CFA	1	4		172	0.172	58	0.058	2,600	447	2,600	151	0.114	290		
177	STORAGE	E24R1 Zx4, Recessed, w/(4) 4' Lamps	E24R1	Zx4, Recessed, w/(4) 4' Lamps	CFA	3	4		172	0.43	86	0.174	2,600	1,118	2,600	432	0.256	666		
178	OFFICE	E24R1 Zx4, Recessed, w/(4) 4' Lamps	E24R1	Zx4, Recessed, w/(4) 4' Lamps	CFA	1	4		172	0.086	58	0.058	2,600	224	2,600	151	0.028	73		
178	OFFICE	E24R3 Zx4, Recessed, w/(4) 4' Lamps	E24R3	Zx4, Recessed, w/(4) 4' Lamps	CFA	1	3		138	0.136	58	0.058	2,600	354	2,600	151	0.078	203		
179	OPER OFFICE	E24R1 Zx4, Recessed, w/(4) 4' Lamps	E24R1	Zx4, Recessed, w/(4) 4' Lamps	CFA	2	4		172	0.344	100	0.2	2,600	894	2,600	520	0.144	374		
179	OPER OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	5	2		66	0.43	50	0.25	2,600	1,118	2,600	650	0.180	468		
180	OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	4	2		66	0.172	50	0.2	2,600	447	2,600	520	0.028	73		USES ONLY 2 FIXTURES
181	OFFICE	E24R1 Zx4, Recessed, w/(4) 4' Lamps	E24R1	Zx4, Recessed, w/(4) 4' Lamps	CFA	2	4		172	0.256	100	0.2	2,600	671	2,600	620	0.058	151		
182	OFFICE	E24R1 Zx4, Recessed, w/(4) 4' Lamps	E24R1	Zx4, Recessed, w/(4) 4' Lamps	CFA	2	4		172	0.172	58	0.116	2,600	447	2,600	302	0.058	146		
183	OFFICE	E24R1 Zx4, Recessed, w/(4) 4' Lamps	E24R1	Zx4, Recessed, w/(4) 4' Lamps	CFA	2	4		172	0.256	58	0.116	2,600	671	2,600	302	0.142	389		
184	OFFICE	E24R1 Zx4, Recessed, w/(4) 4' Lamps	E24R1	Zx4, Recessed, w/(4) 4' Lamps	CFA	3	4		172	0.43	100	0.3	2,600	1,118	2,600	780	0.130	338		
184	OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	3	2		66	0.256	50	0.15	2,600	671	2,600	390	0.108	281		
185	OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	1	2		66	0.086	50	0.05	2,600	224	2,600	130	0.036	94		
186	HALLWAY	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	5	2		66	0.43	50	0.25	2,600	1,118	2,600	650	0.180	468		
186	ELEVATOR LOBBY	E500 Ship, 4', w/(2) 4' Lamps	E500	Ship, 4', w/(2) 4' Lamps		2	2		66	0.172	58	0.116	8,760	1,507	8,760	1,016	0.056	491		
186	ELEVATOR LOBBY	E500 Ship, 6', w/(2) 4' Lamps	E500	Ship, 6', w/(2) 4' Lamps		2	2		66	0.172	58	0.116	8,760	1,507	8,760	1,016	0.056	491		
187	STORAGE	E148 Miscellaneous, Circular, Recessed	E148	Miscellaneous, Circular, Recessed		1	1		23	0.023	23	0.023								
188	SERVICE ELEV. LOBBY	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	2	2		66	0.172	50	0.1	8,760	1,507	8,760	676	0.072	631		
189	SALES OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	15	2		66	1.28	50	0.75	8,760	11,300	8,760	6,570	0.540	4,730		
189A	COPY	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	1	2		66	0.086	50	0.05	2,340	201	2,340	117	0.036	84		
189A	COPY	E24R2 Zx4, Recessed, w/(2) 4' Lamps & Reflector	E24R2	Zx4, Recessed, w/(2) 4' Lamps & Reflector		1	2		66	0.086	50	0.052	2,340	201	2,340	122	0.034	80		
190	OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	4	2		66	0.344	50	0.2	2,340	605	2,340	468	0.144	337		
191	OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	4	2		66	0.344	50	0.2	2,340	605	2,340	468	0.144	337		
192	OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	4	2		66	0.256	50	0.2	2,340	604	2,340	468	0.058	136		
193	OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	6	2		66	0.516	50	0.3	2,340	1,207	2,340	702	0.216	505		
194	OFFICE	E22R0 Zx2, Recessed, w/(2) U6 - Lamps	E22R0	Zx2, Recessed, w/(2) U6 - Lamps	CFA	4	2		66	0.344	50	0.2	2,340	605	2,340	468	0.144	337		
195	CORRIDOR	E24S4 Zx4, SMI, w/(4) 4' Lamps	E24S4	Zx4, SMI, w/(4) 4' Lamps	OPAOUE	17	4		172	2.924	108	1.633	2,340	6,842	2,340	4,336	1.071	2,506		

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LIGHTING RETROFIT WORKSHEET

Harvey's
SUMMARY

2nd Floor

UTILITY RATE

Contract: Mechanical Sum

FEATURE LOCATION		EXISTING TYPE		LENS		BURNOUTS		PROPOSED TYPE		DESCRIPTION		POWER CALCULATION		ENERGY USAGE		PROPOSED		SAVINGS		FOOT		MISCELLANEOUS	
SP1	DESCRIPTION	CODE	DESCRIPTION	QTY	LENS	QTY	LENS	QTY	LENS	QTY	DESCRIPTION	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	ENERGY	SAVINGS	WATT	KWH	WATT	KWH
GRAND TOTAL												145.13	87.602	743.030	444.247	57.590	299.391						

DEMAND REDUCTION CALCULATION

Diversity Factor
Existing Monthly Lighting Demand
Proposed Monthly Lighting Demand
Summer Demand Savings
Winter Demand Savings

0.65
123.41
74.48
48.95
48.95

DEMAND RATE
Rate Month
6
6

ANNUAL DEMAND SAVINGS

TOTAL ANNUAL SAVINGS

KW
KWH

REASONABLENESS CALCULATION

Facility Square-Foot (SF)
Required (SF)
Wanted (SF)
Aver Beam Hours = KWH/KW
Aver Cost/KWH = \$/KWH/KWH/Ser

Exist
#DIV/0!
#DIV/0!
5,122

Prop. Comments
#DIV/0! Typ. range \$ to 50
#DIV/0! Typ. range 0.5-3
5,071 Full Time = 6,780
Typ. range \$0.05 to \$0.11

PERCENT SAVINGS

Existing Facility Total	KWH	KW	\$/KWH	\$/KW	\$/TOTAL
Existing Lighting	743.038	123.4	##	##	##
%: Existing Lighting vs Ex.	44%	77%			
Lighting Savings	299.391	49.0			
%: Lighting Savings vs Ex.	18%	31%			

0472361

BK0799PG2045

LIGHTING RETROFIT WORKSHEET

Harry's
SUMMARY

Public Areas
UTILITY RATE

Contract: Masterdial Sum

SP#	DESCRIPTION	EXISTING TYPE	DESCRIPTION	LENS	QTY	L	OUT	POWER CALCULATION				ENERGY USAGE				SAVINGS				FOOT CANDLE	MISCELLANEOUS		
								EXISTING WATT	EXISTING KW	PROPOSED WATT	PROPOSED KW	EXISTING HRS	EXISTING KWH	PROPOSED HRS	PROPOSED KWH	EXISTING HRS	EXISTING KWH	PROPOSED HRS	PROPOSED KWH			EXISTING KW	PROPOSED KW
G4	LUMINOUS CEILING	ES9	Strip, 4', w/(2) 4' Lamps		4			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		4	86	0.344	52	0.208	8,760	3,013	8,760	1,822	0.136	1,191		
G5	LUMINOUS CEILING	ES2	Strip, 2', w/(2) 2' Lamps		8			P2F3	Retro, w/(2), 2' T8 Lamps, EB-Lowvatt		8	50	0.4	20	0.208	8,760	3,504	8,760	1,822	0.192	1,682		
G5	LUMINOUS CEILING	ES9	Strip, 4', w/(2) 4' Lamps		4			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		4	86	0.344	52	0.208	8,760	3,013	8,760	1,822	0.136	1,191		
G6	LUMINOUS CEILING	ES9	Strip, 4', w/(2) 4' Lamps		4			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		4	86	0.344	52	0.208	8,760	3,013	8,760	1,822	0.136	1,191		
G7	LUMINOUS CEILING	ES9	Strip, 4', w/(2) 4' Lamps		4			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		4	86	0.344	52	0.208	8,760	3,013	8,760	1,822	0.136	1,191		
G8	BACK BAR	ES0	Strip, 6', w/(2) 4' Lamps		2			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		2	86	0.172	52	0.104	8,760	1,507	8,760	911	0.068	599		
G8	BACK BAR	ES3	Strip, 1', w/(1) 1' Lamp		2			NIC	Not in Contract		2	17	0.034	17	0.034	8,760	288	8,760	288				
G9	LATTICE	ES9	Strip, 4', w/(2) 4' Lamps		3			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		3	86	0.258	52	0.155	8,760	2,200	8,760	1,367	0.102	894		
G9	LATTICE	ES12	Strip, 4', w/(4) 4' Lamps		1			P4F53	Retro, w/(4), 4' T8 Lamps, (1) 4- Lamp EB-Lowvatt		1	172	0.172	100	0.1	8,760	1,507	8,760	876	0.072	631		
G9	LATTICE	ES4	Strip, 3', w/(1) 3' Lamp		1			P3F2	Retro, w/(1), 3' T8 Lamp, EB-Lowvatt		1	43	0.043	20	0.02	8,760	377	8,760	175	0.023	201		
G10	ENTRY SIGN	ES23	Strip, 6', w/(2) 6' Lamps-HO		2			P4F62	Retro, w/(6), 4' T8 Lamps, (2) 3- Lamp Eba & 6' Retrofit Kit		2	250	0.5	168	0.338	8,760	4,380	8,760	2,943	0.184	1,437		
G11	ENTRY SIGN	ES15	Strip, 6', w/(2) 6' H.O. Lamps		1			P3F13	Retro, w/(6), 3' T8 Lamps, (3) 2- Lamp Eba		1	192	0.192	128	0.128	8,760	1,882	8,760	1,104	0.088	578		
E02	EXITS	E02	Incandescent, Exit Light, w/(2) 15 Watt Lamps		38			PPL4	Retro, w/(1), Exit Light Kit, LED - 1 Sided		38	30	1.14	2	0.078	8,760	9,986	8,760	666	1.064	9,321		
GASBRO FLOOR																							
G1	ESCALATOR SIGN	ES2	Strip, 2', w/(2) 2' Lamps		2			NIC	Not in Contract		2	50	0.1	50	0.1	8,760	876	8,760	876				
G1	ESCALATOR SIGN	ES23	Strip, 6', w/(2) 6' Lamps-HO		2			P4F62	Retro, w/(6), 4' T8 Lamps, (2) 3- Lamp Eba & 6' Retrofit Kit		2	250	0.5	168	0.338	8,760	4,380	8,760	2,943	0.184	1,437		
C1	STORAGE	E16S11	1x8, S/M, w/(4) 4' Lamps		2			P4F53	Retro, w/(8), 4' T8 Lamps, (1) 4- Lamp EB-Lowvatt		2	172	0.344	100	0.2	2,000	688	2,000	400	0.144	288		
C2	STORAGE	E172	Incandescent, Standard Surface Mount, 100 Watt		1			CC	Out, Cap and remove fixture(s)		1	100	0.1	100	0.1	2,000	200	2,000	200	0.100	200		
C3	BREAK ROOM	E14S2	1x4, S/M, w/(2) 4' Lamps		2			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		2	86	0.172	52	0.104	8,760	1,607	8,760	911	0.068	596		120 V
C4	UNDER COUNTER	ES7	Strip, 4', w/(1) 4' Lamp		4			P4F1	Retro, w/(1), 4' T8 Lamp, EB-Lowvatt		4	50	0.2	30	0.12	8,760	1,752	8,760	1,051	0.080	701		120 V
C5	RESTROOM HALL	E228	2x2, Recessed, w/(2) U6 - Lamps		5			P2F7	Retro, w/(2), 2' U6 T8 Lamps, EB-Lowvatt		5	86	0.43	50	0.25	8,760	3,767	8,760	2,190	0.180	1,577		
C6	MEN'S ROOM	ES0	Strip, 6', w/(2) 4' Lamps		1			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		1	86	0.088	52	0.052	8,760	753	8,760	455	0.034	288		
C6	MEN'S ROOM	ES4	Strip, 16' w/(4) 4' Lamps		1			P4F53	Retro, w/(16), 4' T8 Lamps, (1) 4- Lamp EB-Lowvatt		1	172	0.172	100	0.1	8,760	1,507	8,760	876	0.072	631		
C6	MEN'S ROOM	ES33	Strip, 12', w/(3) 4' Lamps		1			P4F43	Retro, w/(12), 4' T8 Lamps, (1) 3- Lamp EB-Lowvatt		1	138	0.138	70	0.070	8,760	1,191	8,760	886	0.080	526		
C6	MEN'S ROOM	ES1	Strip, 2', w/(1) 2' Lamp		1			P2F2	Retro, w/(1), 2' T8 Lamp, EB-Lowvatt		1	32	0.032	13	0.013	8,760	280	8,760	114	0.019	166		
C7	WOMEN'S RR	ES0	Strip, 6', w/(2) 4' Lamps		1			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		1	86	0.088	52	0.052	8,760	753	8,760	455	0.034	288		
C7	WOMEN'S RR	ES4	Strip, 16' w/(4) 4' Lamps		2			P4F53	Retro, w/(16), 4' T8 Lamps, (1) 4- Lamp EB-Lowvatt		2	172	0.344	100	0.2	8,760	3,013	8,760	1,752	0.144	1,261		
C8	SPORTS BOOK OFFICE	E24R1	2x4, Recessed, w/(2) 4' Lamps		4			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		4	86	0.344	52	0.208	7,300	2,511	7,300	1,518	0.136	993		120 V
C9	SPORTBOOK BACK ROOM	E24R1	2x4, Recessed, w/(2) 4' Lamps		0			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		0	86	0.510	52	0.312	7,300	3,787	7,300	2,278	0.204	1,489		120 V
C10	LAKE LOBBY ELEVATOR	ES9	Strip, 4', w/(2) 4' Lamps		12			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		12	86	1.032	52	0.824	8,760	9,040	8,760	5,465	0.408	3,574		SOFFET 277 V
C11	LUMINOUS 12,13 CEILING	ES7	Strip, 4', w/(1) 4' Lamp		44			P4F4	Retro, w/(1), 4' T8 Lamp, (1) EB-Lowvatt		44	50	2.2	20	1.144	8,760	19,272	8,760	10,021	1.056	9,251		
C11	LUMINOUS 12,13 CEILING	ES9	Strip, 4', w/(2) 4' Lamps		21			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		21	86	1.806	52	1.092	8,760	15,821	8,760	9,568	0.714	6,255		
C11	LUMINOUS 12,13 CEILING	ES1	Strip, 2', w/(1) 2' Lamp		1			P2F2	Retro, w/(1), 2' T8 Lamp, EB-Lowvatt		1	32	0.032	13	0.013	8,760	280	8,760	114	0.019	166		
C14	LUMINOUS 15 CEILING	ES9	Strip, 4', w/(2) 4' Lamps		8			P4F29	Retro, w/(2), 4' T8 Lamps, (1) 2- Lamp EB-Lowvatt		8	86	0.688	52	0.416	8,760	6,027	8,760	3,644	0.272	2,383		
C14	LUMINOUS 15 CEILING	ES31	Strip, 6', w/(4) 4' Lamps		8			P4F53	Retro, w/(4), 4' T8 Lamps, (1) 4- Lamp EB-Lowvatt		8	172	1.376	100	0.8	8,760	12,054	8,760	7,008	0.576	5,046		
C16	LUMINOUS CEILING	ES31	Strip, 6', w/(4) 4' Lamps		4			P4F53	Retro, w/(4), 4' T8 Lamps, (1) 4- Lamp EB-Lowvatt		4	172	0.688	100	0.4	8,760	6,027	8,760	3,504	0.288	2,520		

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LIGHTING RETROFIT WORKSHEET

Public Areas

UTILITY RATE

Harvey's SUMMARY

Contract: All Work Members Sum

S#	DESCRIPTION	FIXTURE LOCATION	EXISTING TYPE	DESCRIPTION	LENS	QTY	L. OUT	PROPOSED TYPE			POWER CALCULATION			ENERGY USAGE			PROPOSED			SAVINGS ENERGY			FOOT CANDLE	MISCELLANEOUS
								CODE	QTY	QTY	WATT	KW	WATT	KW	HRS	KWH	COST	HRS	KWH	COST	KW	KWH		
C17	MENS & WOMENS RR		ESS	Strip, 4', w(2) 4' Lamps		2		PAF29	2	86	0.172	52	0.104	8,700	1,507	8,700	911	0.068	598					
C17	MENS & WOMENS RR		ESS	Strip, 3', w(2) 3' Lamps		4		P3F6	4	75	0.3	40	0.10	8,700	2,828	8,700	1,402	0.140	1,228					
C17	MENS & WOMENS RR		E22R8	2x2, Recessed, w(2) U8 - Lamps	PRC	20		P2F7	20	86	1.72	50	1	8,700	15,067	8,700	8,700	0.720	6,307					NEW 120V
C19	BACK OF MTN BAR		E14S2	1x4, SMA, w(2) 4' Lamps		2		PAF29	2	86	0.172	52	0.104	8,700	1,507	8,700	911	0.068	598					
C20	MENS		ES31	Strip, 6', w(4) 4' Lamps		4		PAF53	4	172	0.688	100	0.4	8,700	6,027	8,700	3,504	0.268	2,523					
C20	MENS		ES9	Strip, 4', w(2) 4' Lamps		2		PAF29	2	86	0.172	52	0.104	8,700	1,507	8,700	911	0.068	598					
C20	MENS		ES31	Strip, 6', w(4) 4' Lamps		2		PAF53	2	172	0.688	100	0.2	8,700	2,280	8,700	1,752	0.068	598					
C20	MENS		ES31	Strip, 6', w(4) 4' Lamps		4		PAF53	4	172	0.688	100	0.4	8,700	6,027	8,700	3,504	0.268	2,523					
C21	WOMENS		ES31	Strip, 6', w(4) 4' Lamps		10		PAF53	10	172	1.72	100	1	8,700	15,067	8,700	8,700	0.720	6,307					
C21	WOMENS		ES31	Strip, 6', w(4) 4' Lamps		2		PAF53	2	172	0.344	100	0.2	8,700	3,013	8,700	1,752	0.144	1,261					
C21	WOMENS		ES7	Strip, 4', w(1) 4' Lamp		2		PAF4	2	50	0.1	28	0.062	8,700	878	8,700	458	0.048	420					
C22	JANITOR		E172	Incandescent, Standard Surface Mount, 100 Watt		1		PR5	1	100	0.1	28	0.029	8,700	878	8,700	254	0.071	622					
C23	PARKING WALKWAY		ES13	Strip, 4', w(3) 4' Lamps		6		PAF43	6	138	0.810	78	0.456	8,700	7,148	8,700	3,965	0.360	3,154					CASINO FLOOR
C23	PARKING WALKWAY		ES7	Strip, 4', w(1) 4' Lamp		6		PAF4	6	50	0.3	28	0.158	8,700	2,828	8,700	1,387	0.144	1,261					
C24	PARKING LOBBY		E24R3	2x4, Recessed, w(3) 4' Lamps		4		PAF43	4	138	0.544	78	0.304	8,700	4,785	8,700	2,883	0.240	2,102					T-12 ELECTRONIC

0472361

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LIGHTING RETROFIT WORKSHEET

Public Areas

UTILITY RATE

Harvey's SUMMARY

SP#	DESCRIPTION	EXISTING CODE	FIXTURE DESCRIPTION	EXISTING TYPE	LENS	QTY	L	OUT	PROPOSED TYPE		DESCRIPTION		POWER CALCULATION		EXISTING		PROPOSED		ENERGY USAGE		SAVINGS		FOOT CANDLE	MISCELLANEOUS
									CODE	TYPE	QTY	DESCRIPTION	EXISTING WATT	PROPOSED WATT	EXISTING HRS	PROPOSED HRS	EXISTING KWH	PROPOSED KWH	EXISTING COST	PROPOSED COST	EXISTING ENERGY KW	PROPOSED ENERGY KW		
						502			2				37,245	20,397	309,564	198,149								
GRAND TOTAL																								

DEMAND REDUCTION CALCULATION		DEMAND RATE		ANNUAL DEMAND SAVINGS		TOTAL ANNUAL SAVINGS	
Diversity Factor	0.85	Rate Months	6	KW		KW	
Existing Monthly Lighting Demand	31.68		6	KWH		KWH	
Proposed Monthly Lighting Demand	17.34		6	KW		KW	
Summer Demand Savings	14.32		6	KWH		KWH	
Winter Demand Savings	14.32		6	KW		KW	

REASONABLENESS CALCULATION		PERCENT SAVINGS		EXISTING FACILITY TOTAL		SAVINGS	
Facility Square-Foot (SF)	#DIV/0!	Existing Facility Total	160.0	Existing Facility Total	309,564	Existing Facility Total	\$25,000
Existing RSP	#DIV/0!	% Existing Lighting vs Ex.	18%	% Existing Lighting vs Ex.	18%	% Existing Lighting vs Ex.	18%
Proposed RSP	#DIV/0!	Lighting Savings	140,415	Lighting Savings	140,415	Lighting Savings	14.3
Aver Burn Hours = 8760	8,283	% Lighting Savings vs Ex.	6%	% Lighting Savings vs Ex.	6%	% Lighting Savings vs Ex.	6%
Aver Cost/KWH = \$10.05	8,283						



0472361

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LIGHTING RETROFIT WORKSHEET

Misc. Areas

SP#	DESCRIPTION	FIXTURE DESCRIPTION	EXISTING TYPE	DESCRIPTION	LENS	QTY	L	O	U	POWER CALCULATION				ENERGY USAGE				SAVINGS ENERGY				FOOT CANDLE	MISCELLANEOUS				
										EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED				EXISTING		PROPOSED	
										WATT	KW	WATT	KW	HRS	KWH	HRS	KWH	COST	KWH	COST	KW			KWH	COST	KW	KWH
	MEZZANINE 100																										
	ELEVATOR LOBBY HALL	E172	Incandescent, Standard Surface Mount, 100 Watt	1x4, SMA, w(2) 4' Lamps	W	2																					
	DINING ROOM	E172	Strip, 4', w(2) 4' Lamps	2																							
	CATWALKS	E172	Incandescent, Standard Surface Mount, 100 Watt	1x4, SMA, w(2) 4' Lamps	W	25																					
	AHUS - 18 & 10	E14S2	1x4, SMA, w(2) 4' Lamps	1																							
	SOUND ROOM	E14S2	1x4, SMA, w(2) 4' Lamps	1																							
	SOUND ROOM	E14S3	1x4, SMA, w(4) 4' Lamps	2																							
	SLOT DISPATCH	E24R4	2x4, Recessed, w(4) 4' Lamps	1																							
	HALL	E158	Incandescent, Recessed w(1) 91 Watt	1x4, SMA, w(4) 4' Lamps	CPA	3																					
	AHU 5 - 9	E18S11	1x4, SMA, w(4) 4' Lamps	1																							
	AHU 5 - 9	E14S2	1x4, SMA, w(2) 4' Lamps	8																							
	AHU 5 - 9	E14S1	1x4, SMA, w(1) 4' Lamp	2																							
	LARGE TOWER PENTHOUSE	E14P5	6'x4' Chain Hung, Shop Fixture, w(2) 4' Lamps	34																							
	MAIN PENTHOUSE	E14P5	6'x4' Chain Hung, Shop Fixture, w(2) 4' Lamps	3																							
	DINING ROOM	E14P5	6'x4' Chain Hung, Shop Fixture, w(2) 4' Lamps	10																							
	PASSENGER ELEV. ROOM	E14P5	6'x4' Chain Hung, Shop Fixture, w(2) 4' Lamps	8																							
	SERV. ELEV. ROOM	E14P5	6'x4' Chain Hung, Shop Fixture, w(2) 4' Lamps	4																							
	AT&T WIRELESS	E14P5	6'x4' Chain Hung, Shop Fixture, w(2) 4' Lamps	3																							
	18TH FLOOR STORAGE	E14S10	6'x4', SMA, Box Lens Fixture, w(2) 4' Lamps	2																							
	STAIR	E14S9	6'x4', Wall Mount, Box Lens Fixture, w(2) 4' Lamps	2																							
	LEWELLYNS																										
	OFFICE	E18S13	6'x6', SMA, Box Lens, Fixture, w(1) 4' Lamps	2																							
	STAIR CORR.	E154	Incandescent, Recessed Flood, 100 Watt	2																							
	PEAK LOUNGE	E172	Incandescent, Standard Surface Mount, 100 Watt	4																							
	WAITER AREA	E172	Incandescent, Standard Surface Mount, 100 Watt	7																							
	WINE STORAGE	E14S10	6'x4', SMA, Box Lens Fixture, w(2) 4' Lamps	1																							
	KITCHEN	E18S13	6'x6', SMA, Box Lens, Fixture, w(1) 4' Lamps	8																							
	KITCHEN	E14S0	1x4, SMA, w(8) 4' Lamps	1																							
	KITCHEN	E14S10	6'x4', SMA, Box Lens Fixture, w(2) 4' Lamps	6																							
	KITCHEN HOOD	E14	Incandescent, Drum, w(1) 91 Watt Lamp	17																							
	FREEZER	E112	Incandescent, Drum, w(2) 91 Watt Lamps	2																							
	OFFICE	E18S13	6'x6', SMA, Box Lens, Fixture, w(1) 4' Lamps	1																							
	KITCHEN RRS	E153	Incandescent, Recessed w(1) 91 Watt	2																							

0472361

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LIGHTING RETROFIT WORKSHEET

Misc. Areas

UTILITY RATE

Contract Mechanical Sum

Harvey's SUMMARY

All Info

FOXTURE LOCATION

SP# DESCRIPTION

EXISTING TYPE

DESCRIPTION

CODE

QTY

LENS

L. OUT

PROPOSED TYPE

DESCRIPTION

QTY

PROPOSED CODE

DESCRIPTION

QTY

EXISTING WATT

KW

PROPOSED WATT

KW

EXISTING HRS

KWH

PROPOSED HRS

KWH

EXISTING ENERGY

KV

PROPOSED ENERGY

KV

EXISTING COST

\$

PROPOSED COST

\$

EXISTING SAVINGS

%

PROPOSED SAVINGS

%

EXISTING FOOT CANDLE

PROPOSED FOOT CANDLE

MISCELLANEOUS

FOOT CANDLE

MISCELLANEOUS

FOOT CANDLE

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FOOT CANDLE

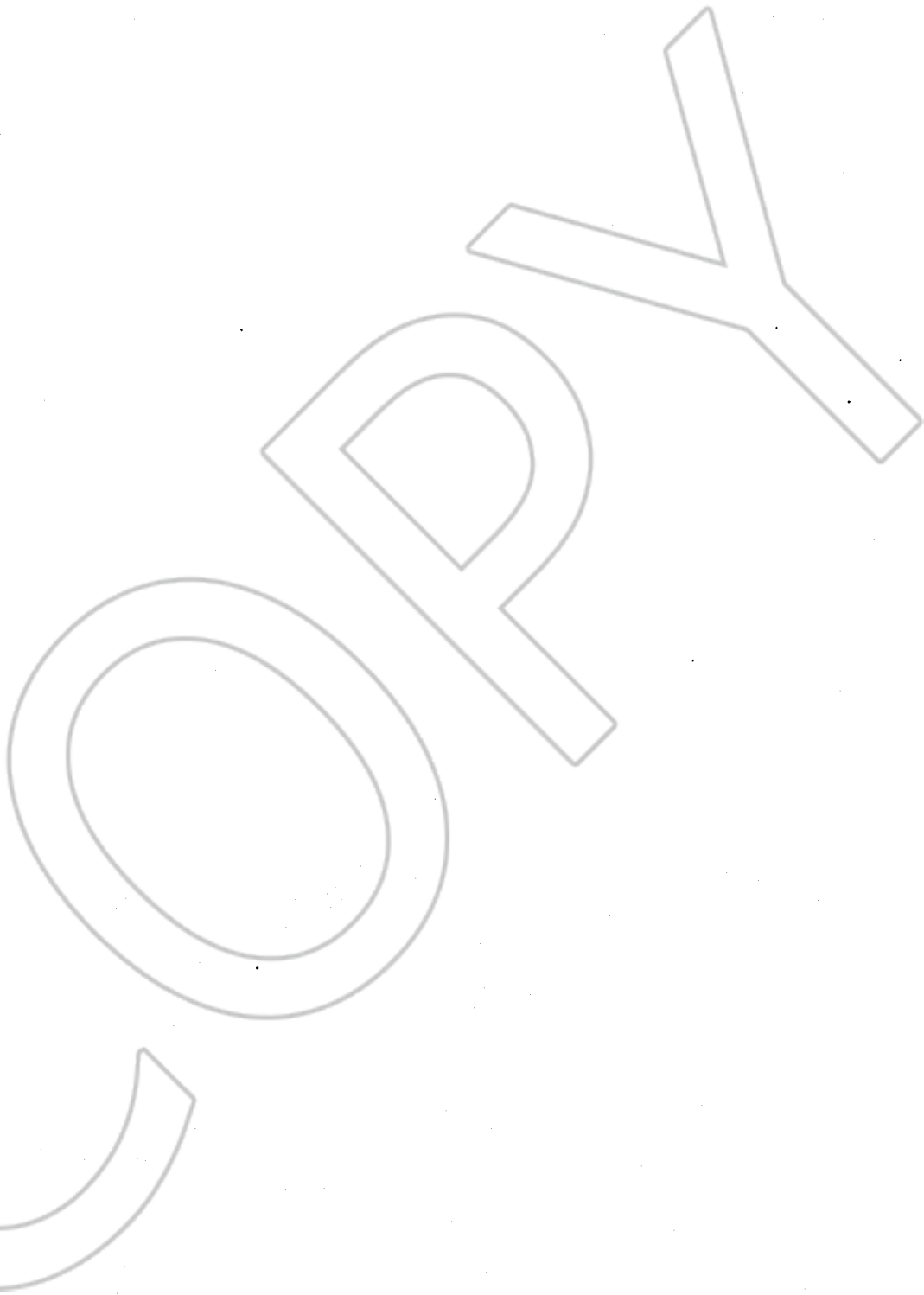
MISCELLANEOUS

FOOT CANDLE

MISCELLANEOUS

FOOT CANDLE

%: Lighting Savings vs Ex. 7% 35%



0472361

BK0799PG2052

The land referred to in this policy is situated in the State of Nevada, County of and is described as follows:

PARCEL 1:

All the certain piece or parcel of land situate in the Northeast Quarter of the Southeast Quarter of Section 27, Township 13 North, Range 18 East, M.D.B.&M., County of Douglas, State of Nevada, described as follows:

BEGINNING at the intersection of the California-Nevada State Line with the Westerly line of U.S. Highway 50; thence North $27^{\circ}57'22''$ East along the Westerly line of said U.S. Highway 50, a distance of 154.80 feet; thence North $56^{\circ}30'$ West, a distance of 291.50 feet; thence North $27^{\circ}57'22''$ East, a distance of 266.35 feet to a point on the Northerly line of parcel conveyed to HARVEY GROSS, et al, by Deed recorded June 2, 1944, in Book W of Deeds, Page 597, Douglas County, Nevada, records; thence along the Northerly line of said parcel North $80^{\circ}14'14''$ West, a distance of 613.15 feet to the Northeasterly corner of parcel conveyed to WILLIAM McCALLUM, et al, by Deed recorded November 24, 1952, in Book A-1 of Deeds, Page 351, Douglas County, Nevada, records; thence along the Northeasterly and Southeasterly line of said McCallum Parcel, the two following courses and distances; South $48^{\circ}43'15''$ East, a distance of 211.24 feet and South $41^{\circ}16'45''$ West, a distance of 50.00 feet to a point on said California-Nevada State Line; thence South $48^{\circ}43'15''$ East along the last mentioned line, a distance of 697.47 feet to the point of beginning, said parcel being further shown as Parcel No. 1 of that certain Record of survey filed for record in the office of the County Recorder on June 29, 1971, as File No. 60370, in Book 102, Page 544.

A PORTION OF 07-140-09

PARCEL 2:

All that certain piece or parcel of land situate in the County of Douglas, State of Nevada, that is described as follows:

That portion of the Southeast Quarter of Section 27, Township 13 North, Range 18 East, M.D.B.&M., that is described as follows:

COMMENCING at a point on the Westerly right of way line of the Nevada State Highway U.S. Route 50, which is 154.80 feet North $27^{\circ}57'22''$ East to the intersection of the California-Nevada State Line boundary with the Westerly right of way of the Nevada U.S. Route 50; thence first course North $27^{\circ}57'22''$ East, a distance of 389.99 feet to a point on the Westerly right of way line of the Nevada State Highway U.S. Route 50; thence second course North $80^{\circ}14'14''$ West, a distance of 305.48 feet; thence third course South $27^{\circ}57'22''$ West, a distance of 266.35 feet; thence fourth course South $56^{\circ}30'$ East, a distance of 291.50 feet to the point of beginning, said land being further shown as Parcel No. 2 on that certain Record of Survey filed for record in the office of the County Recorder of Douglas County, Nevada, on June 29, 1971, as File No. 60370, in Book 102, Page 544.

EXCEPTING THEREFROM a parcel of land located within a portion of section 27, Township 13
(Continued)

ALTA-C/DO

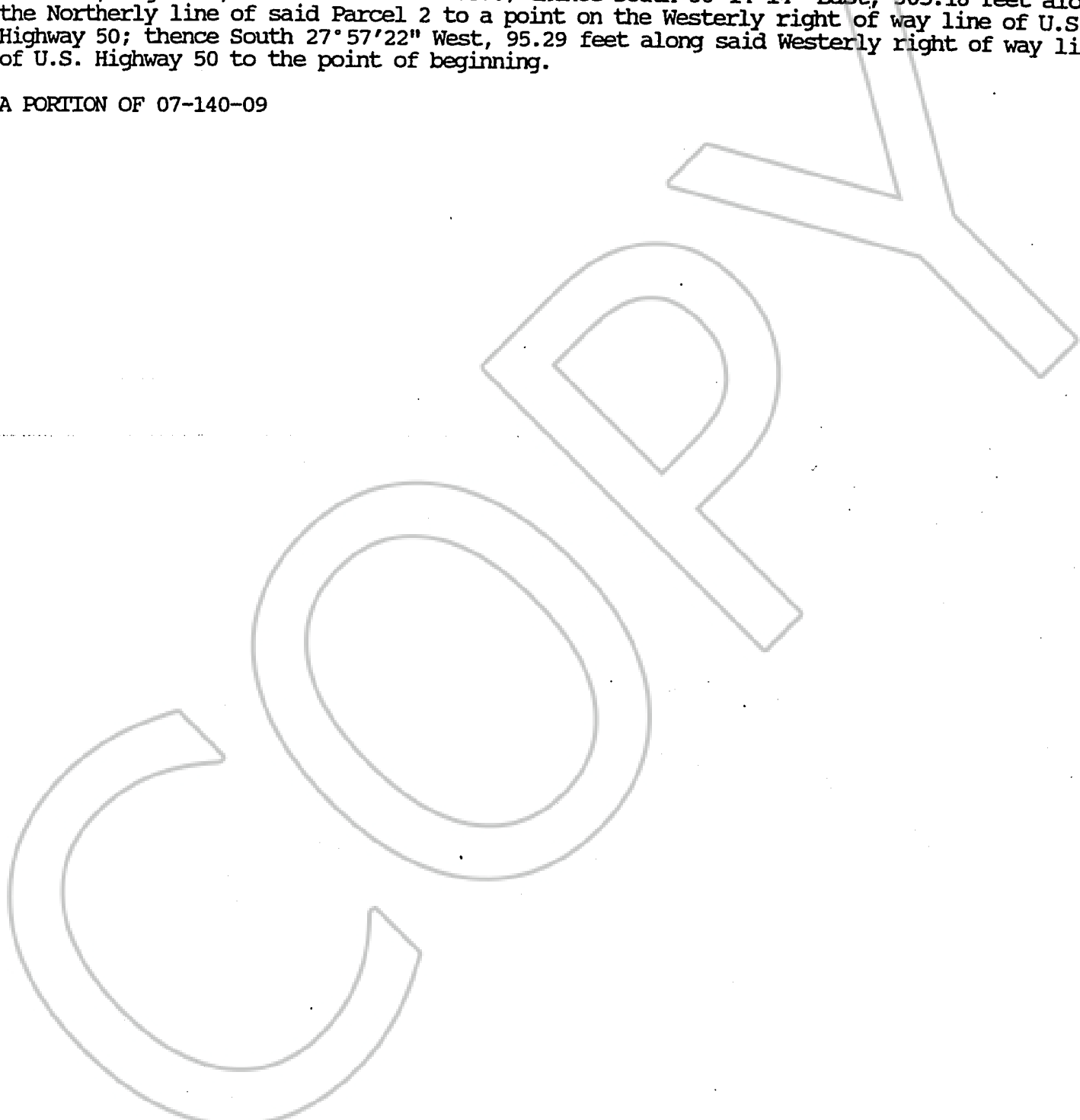
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North, Range 18 East, M.D.B.&M., Douglas County, Nevada, being more particularly described as follows:

COMMENCING at a point lying at the intersection of the California-Nevada State line and the Westerly right of way line of U.S. Highway 50; thence North $27^{\circ}57'22''$ East, 449.50 feet along the Westerly right of way line of U.S. Highway 50 to the point of beginning; thence North $62^{\circ}02'38''$ West, 289.93 feet to the Northwest corner of Parcel 2 as shown on the map filed within the Official Records of Douglas County, Nevada, on June 29, 1971, in Book 102, Page 544, as Document No. 60370; thence South $80^{\circ}14'14''$ East, 305.18 feet along the Northerly line of said Parcel 2 to a point on the Westerly right of way line of U.S. Highway 50; thence South $27^{\circ}57'22''$ West, 95.29 feet along said Westerly right of way line of U.S. Highway 50 to the point of beginning.

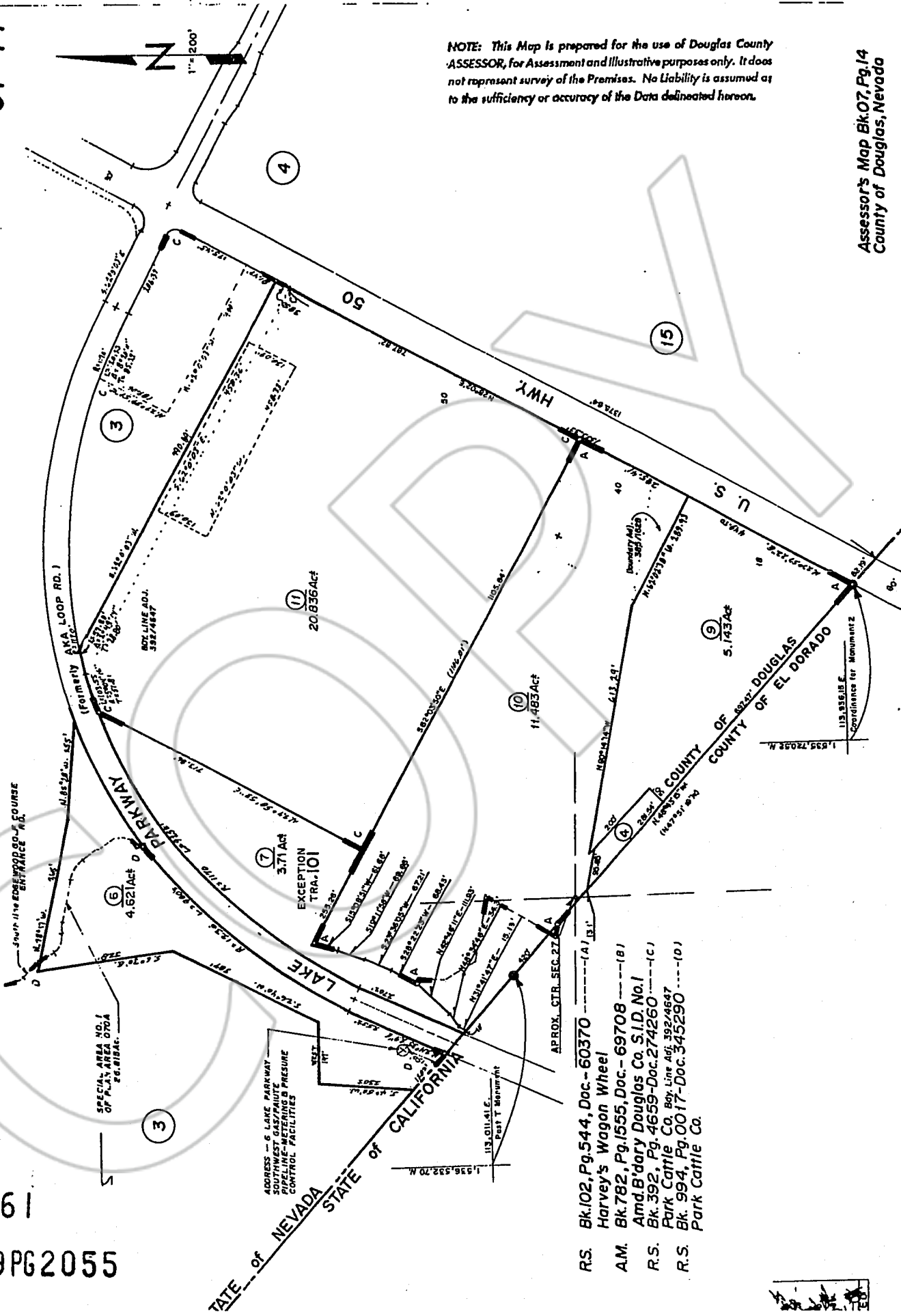
A PORTION OF 07-140-09



0472361

BK0799PG2054

NOTE: This Map is prepared for the use of Douglas County ASSESSOR, for Assessment and Illustrative purposes only. It does not represent survey of the Premises. No Liability is assumed as to the sufficiency or accuracy of the Data delineated hereon.



0472361

BK0799PG2055

- R.S. Bk.102, Pg.544, Doc. - 60370 ----- (A) B1
- A.M. Harvey's Wagon Wheel
- A.M. Bk.782, Pg.1555, Doc. - 69708 ----- (B)
- R.S. Amd. B'dary Douglas Co. S.I.D. No.1
- R.S. Bk.392, Pg. 4659-Doc.274260 ----- (C)
- R.S. Park Cattle Co. Boy Line Adj. 392/4667
- R.S. Bk. 994, Pg. 0017-Doc.345290 ----- (D)
- R.S. Park Cattle Co.



COPY

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CIT Group
IN OFFICIAL RECORDS OF
DOUGLAS CO., NEVADA

'99 JUL 13 AM 11:03

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BK0799PG2056

LINDA SLATER
RECORDER
\$61.00 PAID kd DEPUTY