LIGHTING GENERAL NOTES:

- THIS PROJECT CONSISTS OF WORK TO INSTALL ALL WIRING, CONDUIT, PULL BOXES, NEW LIGHTING, POLES, UTILITY BOXES AND CONCRETE PEDESTALS FOR ADDITION OF TYPE "SA" POLE TOP MOUNTED FIXTURES AS SHOWN IN DRAWINGS.
- 2 PROVIDE 2" PVC SCHEDULE 80 CONDUIT FROM PANEL "PP J" AS SHOWN IN DRAWINGS TO NEW LIGHT LOCATIONS
- LIGHT STANDARD # LUMINARIES (PEDESTRIAN AND STREET LIGHT), SHALL INCLUDE THE FOLLOWING ITEMS FROM ALL PHASE ELECTRIC 3. LOCATED AT 2776 CROSSROADS BLVD, GRAND JUNCTION, CO 8/506, 970.245.6031. THE ITEMS NUMBERS ARE AS FOLLOWS.
- TYPE "SA" RAB LIGHTING #ALED-5T-78-N-USA, PROVIDE COLLISION BREAK AWAY CONNECTORS. FIXTURE TO BE 10' ABOVE FINISHED GRADE TO BOTTOM OF LIGHT. ORDER WITH PS4-11-10WT POLE.
- TYPE "SB" PHILLIPS GARDCO #GL18-1-4-310LA-961A-NW-UNV-BLP-LF-ISRFA2, PROVIDE COLLISION BREAK AWAY CONNECTORS. FIXTURE TO HAVE 25' POLE AND 2 FOOT CONCRETE PEDESTAL FOR A TOTAL OF 27' ABOVE FINISHED GRADE TO BOTTOM OF LIGHT . PROVIDE COLLISION BREAK AWAY CONNECTORS. ORDER WITH 5" ROUND POLE 401-5007-25-D1-GARDCO BLACK BAC-L OO-SET(GARDOC LYTEP) POLE
- TYPE "SB2" PHILLIPS GARDCO #GL18-2-4-3 I OLA-96 I A-NW-UNV-BLP-LF-ISRPA2, PROVIDE COLLISION BREAK AWAY CONNECTORS. FIXTURE TO HAVE 25' POLE AND 2 FOOT CONCRETE PEDESTAL FOR A TOTAL OF 27' ABOVE FINISHED GRADE TO BOTTOM OF LIGHT , PROVIDE COLLISION BREAK AWAY CONNECTORS. ORDER WITH 5" ROUND POLE 401-5007-25-D1-GARDCO BLACK BAC-1 00-SET(GARDOC LYTEP) POLE
- TYPE "SB4" PHILLIPS GARDCO #GL18-4-4-310LA-961A-NW-UNV-BLP-LF-ISRPA2, PROVIDE COLLISION BREAK AWAY CONNECTORS. FIXTURE TO HAVE 25' POLE AND 2 FOOT CONCRETE PEDESTAL FOR A TOTAL OF 27' ABOVE FINISHED GRADE TO BOTTOM OF LIGHT, PROVIDE COLLISION BREAK AWAY CONNECTORS. ORDER WITH 5" ROUND POLE 401-5007-25-D1-GARDCO BLACK BAC-1.00-SET(GARDOC,LYTEP) POLE.
- ALL PEDESTRIAN LIGHTING FIXTURES (TYPE "SA") INSTALLED ON THE PROJECT WILL BE CONTROLLED WITH NEW CONTROLLER WITH NEW 8. PHOTO CELL LOCATED AS SHOWN IN DRAWINGS.
- 9. PULL BOXES FOR CDOT PULL BOXES 11"X18"X12".
- 10. PULL BOXES WILL BE INSTALLED IN GRADES WITHOUT CONCRETE WHERE POSSIBLE.
- 11. ALL ELECTRICAL CONDUIT SHALL BE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE, TYPICAL
- 12. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS SHALL INCLUDE PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. FURNISH ALL REQUIRED ITEMS WHETHER SUCH ARE SPECIFICALLY SHOWN OR NOT
- 13. INFORMATION SHOWN ON DRAWINGS IS DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. OBTAIN VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS AMONG TRADES AND FOR ADJUSTING THE WORK REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDER GROUND OBSTRUCTIONS AND MAKING ALLOWANCES FOR FIELD ADJUSTMENT OF LOCATION OF LUMINARIES TO AVOID SHUT DOWN OF ANY SERVICES OR SYSTEMS THAT ARE TO REMAIN.
- 14. BEFORE SUBMITTING THE BID ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE PREMISES AND/OR JOB SITE SO AS TO ASCERTAIN THE EXISTING CONDITIONS IN WHICH THE CONTRACTOR WILL BE OBLIGED TO OPERATE IN PERFORMING HIS PART OF THE CONTRACT TO ANTICIPATE ANY POSSIBLE SPACE RESTRICTIONS OR CONSTRAINTS THAT COULD AFFECT THE TIMELY COMPLETION OF THE ELECTRICAL WORK IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL REPORT TO THE THE PROJECT ENGINEER OR GENERAL CONTRACTOR ANY CONDITIONS THAT MIGHT PREVENT THE SPECIFIED ELECTRICAL WORK FROM BEING PERFORMED IN THE MANNER INTENDED. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED TO THE ELECTRICAL CONTRACTOR FOR FAILURE TO VISIT THE PROJECT SITE, OR FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED OR WORK TO BE DONE ..
- 15. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES WHOSE WORK RELATES TO OR IS DEPENDENT ON ELECTRICAL WORK TO BECOME FULLY INFORMED OF THE EXTENT AND CHARACTER OF THEIR SPECIFIED WORK AND BE ABLE TO COORDINATE WITH OTHER TRADES WHILE AVOIDING POSSIBLE INTERFERENCE WITH THE ELECTRICAL WORK.
- 16. TRACE ALL CIRCUITS AND UPDATE PANEL SCHEDULES

DATE

DESCRIPTION

EVISION /

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REVISION Z

EVISION /

- 17. ONLY AREA LIGHTING WILL BE REPLACED ALL OTHER ITEMS POWERED BY EXISTING POWER PANEL WILL REMAIN POWERED
- 18. FIELD LOCATE IRRIGATION CONTROL LINES AND AVOID AND PROTECT DURING CONSTRUCTION, TYPICAL.
- 1.9. RESTRICT OPEN TRENCHING OUTSIDE OF DRIP LINE OF EXISTING TREES TO AVOID DAMAGE TO DRIP LINE
- 20. UTILIZE DIRECTIONAL BORING AT A MINIMUM DEPTH OF 36 INCHES UNDER THE CANOPY OF EXISTING TREE.

PPROVED BY EM

21. ADJUST LOCATION OF NEW LIGHTS WITH EXISTING TREES. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO TRENCHING.

DRAWN BY ______ DATE ______4/19/23

DESIGNED BY AJM DATE 4/19/23

CHECKED BY AJM DATE 4/19/23

DATE 4/19/23

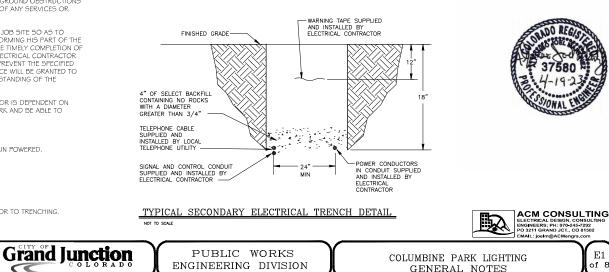
- PP I -X ELECTRICAL CIRCUIT NUMBER (REFER TO PANEL SCHEDULES)
- HEAVY DUTY, TRAFFIC RATED, FLUSH-TO-GRADE POLYMER UB 🗌 CONCRETE SPLICE BOX WITH HEAVY DUTY, TRAFFIC RATED, BOLTED COVER.11"X18"X12" TYPE 1.
 - UNDER GROUND BURIED RACEWAY (2#6 THWN CU AND 1#8 GND) IN 2" PVC CONDUIT (UNLESS NOTED OTHERWISE ON PLANS) IN 24" DEEP TRENCH, BURY AND COMPACTED BACKFILL TO PRE CONSTRUCTION CONDITION
- INSTALL POST TOP MOUNTED PEDESTRIAN STANDARD AS SPECIFIED.

ECTRICAL DESIGN, CONSUL GINEERS; PH: 970-245-7292 3211 GRAND JCT., CO 81502

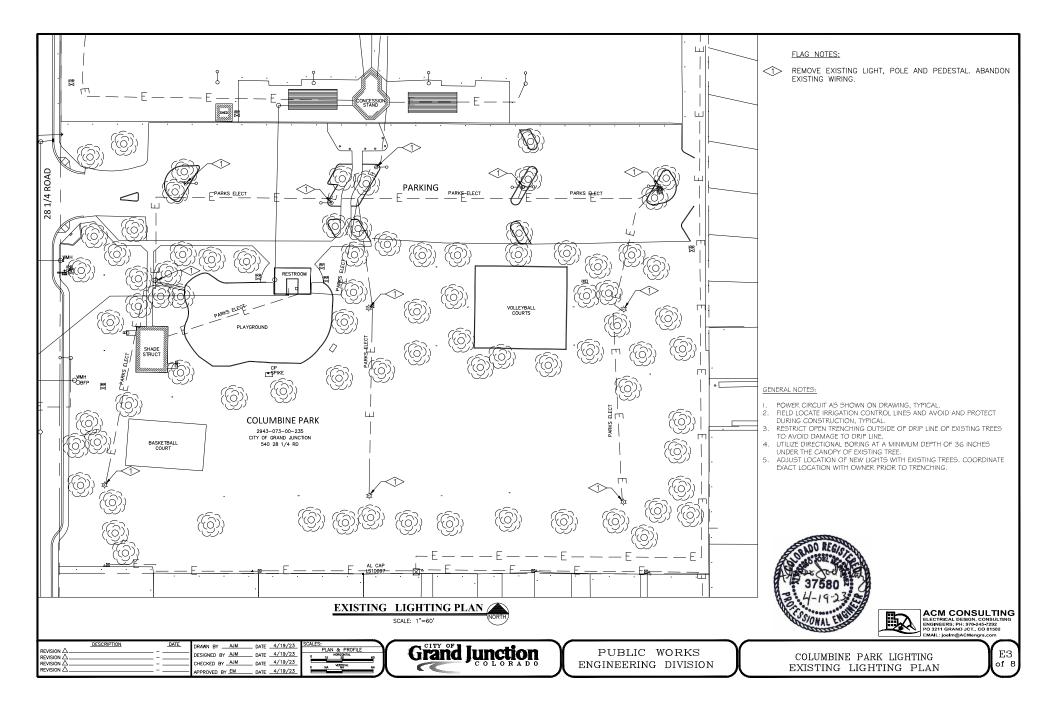
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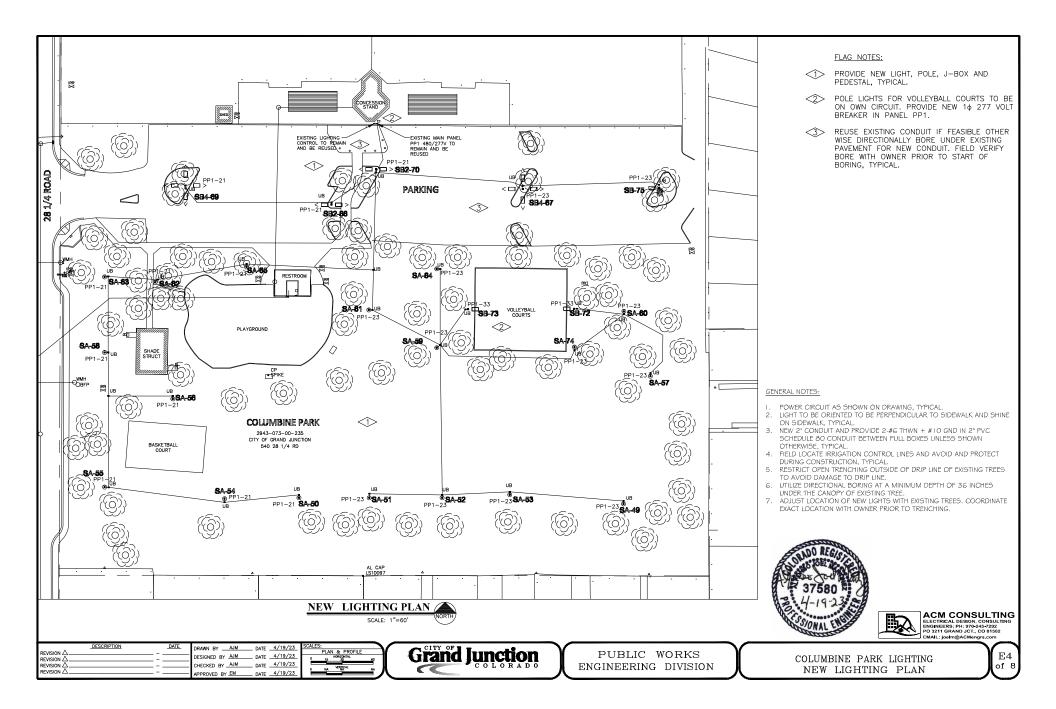
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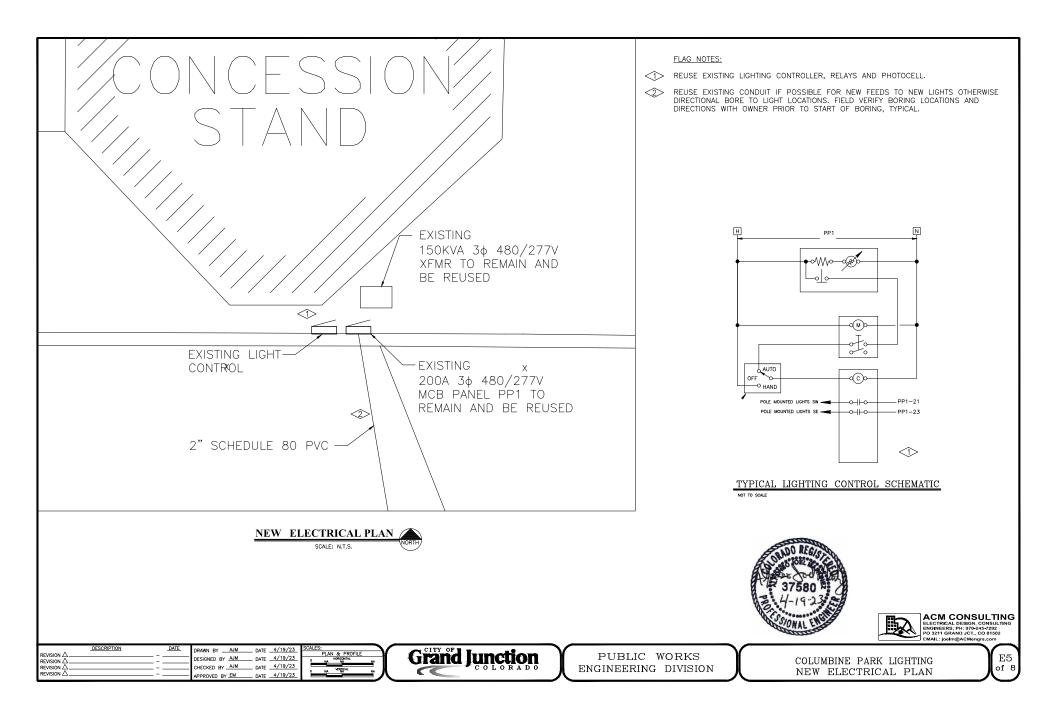
AAL: joelm@ACMengr



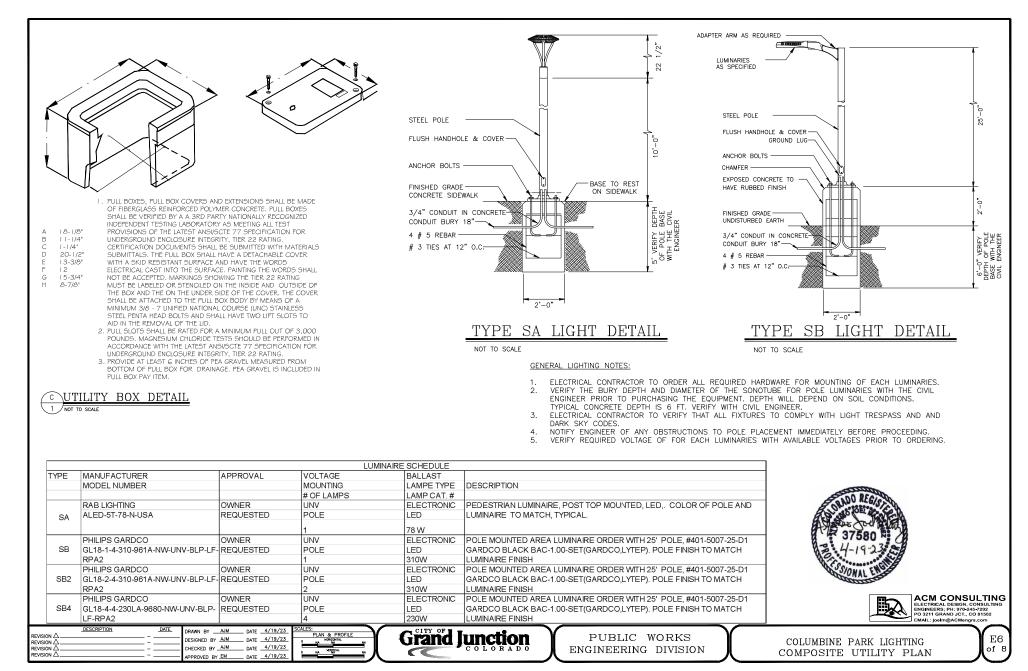
Schedule of Lighting Devices										1		Tabulation of Approximate Quanti	ties			
M No.				613-30003	613-40012	613-30004	613-30005	613-30006	613-40011		ltem No.	Ref. No.	Construction Note Description	Quantity	Unit	NOTES
											1		2 Inch Electrical Conduit (Plastic)	2597	LF	
				LIGHT STANDARD	LIGHT STANDARD	LIGHT STANDARD AND LUMINAIRE LED	LIGHT STANDARD	LIGHT STANDARD AND LUMINAIRE	LIGHT STANDARD		2		Type two Pull Box(Electric)	27	EA	
				AND LUMINAIRE LED	FOUNDATION	(PARKINGAREA, 1	LED (PARKING	LED (PARKING	FOUNDATION		3		Wiring	1	LS	
SCRIPTION				(PEDESTRIAN)	SPECIAL	HEAD)	AREA, 2 HEADS)	AREA, 4 HEADS)	SPECIAL	NOTES	4		Light Standard and Luminaire (Pedestrian)	18	EA	
				EACH	EACH	EACH	EACH	EACH	EACH		5		Light Standard Foundation (Special PEDESTRIAN)	18	EA	
SHEET NO.	TYPE	EAST	NORTH	PLAN	PLAN	PLAN	PLAN	PLAN	PLAN		6		Light Standard and Luminaire (PARKING AREA)	3	EA	
E4	SA-49	101896.56	41333.02	1	1					1,2,3	7		Light Standard and Luminaire (PARKING AREA)	2	EA	
	SA-50	101583.14	41338.95	1	1					1,2,3	8		Light Standard and Luminaire (PARKING AREA)	2	EA	
	SA-51 SA-52	101650.92 101721.36	41338.95 41338.95	1	1				-	1,2,3 1,2,3	9		Light Standard Foundation (SpecialPARKING AREA)	7	EA	
	SA-53	101786.70	41341.89	1	1					1,2,3	3	013-40011	Light Standard Foundation (SpecialFARKING AREA)	(EA	
	SA-54	101511.27	41338.06	1	1					1,2,3		YNOTES:				
	SA-55 SA-56	101395.37 101461.27	41349.34 41434.41	1	1					1,2,3	SOMMAP	TNUTES:				
	SA-57	101922.51	41456.41	1	1					1,2,3						
E4	SA-58	101395.37	41479.34	1	1					1,2,3	1					
	SA-59 SA-60	101716.15	41483.84	1	1					1,2,3	-					
	SA-60 SA-61	101896.89 101650.56	41519.12 41520.40	1	1					1,2,3	-					
E4	SA-62	101444.22	41547.17	1	<u>i</u>					1,2,3	1					
	SA-63	101395.37	41552.27	1	1					1,2,3						
	SA-64 SA-65	101716.15 101532.49	41560.02 41561.82	1	1					1,2,3 1,2,3						
E4	SA-74	101849.14	41484.50	1	1					1.2.3						
	SB2-66	101614.60	41621.99				1		1	3,4	1					
	SB2-70 SB4-67	101657.55 101799.32	41656.26 41637.12				1	1	1	3,4 3,4	-					
	SB4-69	101/33.52	41640.59					1	1	3,4	-					
	SB-72	101848.66	41521.47			1			1	3,4	1					
	SB-73 SB-75	101746.44	41521.13 41638.18			1			1		-					
E4	SB-75	101930.97	41038.18			1			- '							
·											1					
											1					
											-					
											-					
BLE TOTALS				18	18	3	2	2	7							
HEDULE OF LIGHT	TING DEVI	ES NOTES:														
OUNDATION TOP																
UMINIARE LED(78 OUNDATION TOP	8 WATT) IS	TO BE INCLU	DED IN THE C	OST OF PAY ITEM 613-	30005 LIGHT STANDA	RD AND LUMINIARE (P	EDESTRIAN)									
REFERENCE LIGHT				GHTS ON POLE												
													0.028 00.00			
													RAU MEDS			
GENERAL NO													A DE AND COL ARTICLE			
GENERAL NU	JIES:												A THERE TO COM THE REAL			
1. EACH LIG	GHT ТО I	AVE A P	JLL BOX "I	JB".									37580			
REFEREN	VCE ELEC	TRICAL SHE	ETS.	,									1-2. 11-10-73 CH			
													80.7-11 2.5			
													Sector Bar		M CON	SULTIN
													ONAL LISS		TRICAL DESIG NEERS; PH: 970 211 GRAND JCT	IN, CONSULTIN 0-245-7292
													wares.		211 GRAND JC1 L: joelm@ACMe	T., CO 81502 engrs.com
															L. Joein@Acime	
DES	SCRIPTION		DATE DRAWN	N BYAJM DATE 4/	/19/23		CITY OF	J T		$\sqrt{-}$				J EWA	L. Joeini@Acine	$\neg \frown$
/ISION △ /ISION △ /ISION △	SCRIPTION		DESIG	N BY <u>AJM</u> DATE <u>42</u> NED BY <u>AJM</u> DATE <u>42</u> KED BY <u>AJM</u> DATE <u>42</u>	/19/23	$\neg \gamma$	Gran	d Juncti	on	Γ		IC WOF	RKS COLUMBINE PARK			E

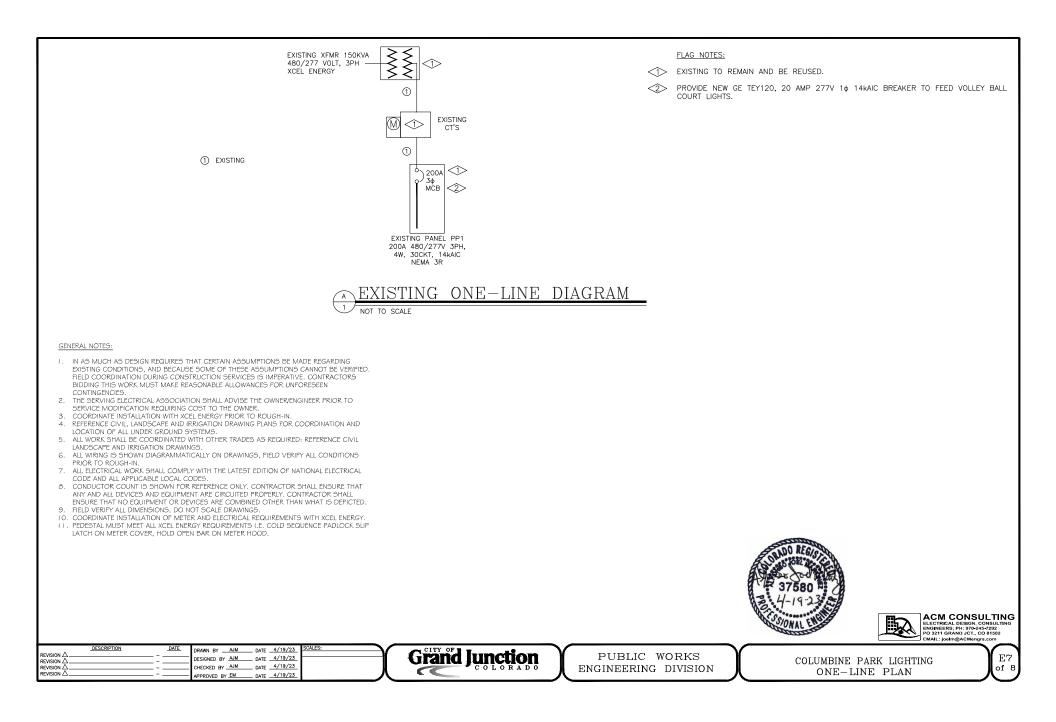






Attachment .	Α
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PANEL: PP1 LDCATION: FED FROM: XF2-0011 INCIDENT ENERGY:	DEVICE FA		aker ug In	ME VE	ICLESURE JUNTING: JLTAGE: JUNDARY:	• NEMA 31 Flush 480/1 0.00(in)	277	MAII WIR	NS(A): B ING: 3	KR -Phase 4-Wire	CONTINUOUS(A): BUS SC RATING(A) FAULT CURRENT(A):	200 14000 4725	FED FROM	PP1 N: FIELD ENTR M: XF2-0011 T ENERGY: 14	ANCE DE .98 Cal/cm2 @1
AMPS P NOTES	DESCRIPTION	DEMAND CDDE	VA	СКТ		LDADS VA B C	СКТ	VA	DEMAND CDDE	DESCRIPTION	NDTES	DC AMPS P	DC AMPS P	NDTES	DESCRIPTION
40 2	E1	LTS	7200	1	7200	7200	5	7200	LTS	W1		40 2	40 2		E1,,
40 2	E2,,	LTS	7200	5	7200	7200	6	7200	LTS	W2		40 2	40 2		E2,,
40 2	E3,,	LTS	7200	9		7200 7200	10 12	7200	LTS	W3		40 2	40 2		E3
40 2	E4	LTS	9600	13 15	8400	8400	14	7200	LTS	W4		40 2	40 2		E4
50 2	W&E 5	LTS	12000		9600	9600	18 20	7200	LTS	W&E_6		40 2	50 2		W&E 5
30 2	LTS PARK	LTS	4320			7920 7920	22	11520	LTS	XFMR 120/240		40 2	30 1 30 1		LTS PARK SW
70 2	OLD PUMP	GENERAL	15360	25	11837	1837	26	12471	GENERAL	RR BUILDINGS		60 3	70 2		DLD PUMP
60 2	HDT WATER	LTS	11520		5760	9917	30	-		**			60 2		HDT WATER
0 1	SPACE SPACE	SPACE SPACE	l o	33	5760	0	34 36						20 1	2	> LTS-VOLLEY I
0 1	SPACE	SPACE	0	37	0	-	38						0 i		SPACE
0 1 0 1	SPACE SPACE	SPACE SPACE		39 41		0 0	40 42						0 1 0 1		SPACE SPACE
ALL CONNECTED TOTAL CONNECTED TOTAL DEMAND TOTAL DESIGN	KVA 3P AVE AMP3 134.39 161.6 161.03 193.7 194.33 233.7		* PHASE * A-N * B-N * C-N	тоти	499 425	VA 96. 9 56. 9 36. 9	AMF 180. 153. 151.	4 6			DATE: Apr TIME: 09:5	19, 2023 5:49	ALL CON TOTAL CO TOTAL DO TOTAL DO	DNNECTED EMAND	KVA 3P 4 140.61 168.65 203.70

PANEL: PP1 DC DEVI	E TYPE: Breat	ker FN	NCLOSURE: NEMA 3R	MAT	NS(A): BKR	CONT INUOUS(A):	200
LECATION: FILL ENTRANCE DEVICE FED FREM: XF2-0011 INCIDENT ENERGY: 14.98 Cal/cm2 @18.00(AMILY: Plug	In ME	JUNTING: Free St JLTAGE: 480/2 JUNDARY: 87. 36(in)	anding WIR		BUS SC RATING(A) FAULT CURRENT(A)	14000 4725
AMPS P NOTES DESCRIPTION	DEMAND CODE	VA CKT	PHASE LDADS VA A B C	CKT VA	DEMAND DESCRIPTION CODE	NDTES	DC AMPS P
40 2 E1	LTS	7200 1	7200	2 7200	LTS W1		40 2
40 2 E2	LTS	7200 5	7200	6 7200	LTS W2		40 2
40 2 E3	LTS	7200 9 - 11	7200 7200 7200	10 7200	LTS W3		40 2
40 2 E4	LTS	9600 13 - 15	8400 8400	14 7200 16 -	LTS W4		40 2
50 2 W&E 5	LTS 1	12000 17	9600	18 7200	LTS W&E_6		40 2
30 1 LTS PARK SW 30 1 LTS PARK SE		4960 21 4960 23	10720	22 11520	LTS XFMR 120/240		40 2
70 2 DLD PUMP	GENERAL 1	15360 25	11837	26 12471	GENERAL RR BUILDINGS		60 3
60 2 HDT WATER	LTS 1	11520 29	9917 5760	30 -			**
20 1 0 1	SPACE	620 33 0 35	620	34			
0 1 SPACE 0 1 SPACE	SPACE	0 37	0 0	38			
0 1 SPACE	SPACE	0 41	0	42			
ALL CONNECTED KVA 3P AVE AM TOTAL CONNECTED 140, 61 169		PHASE TOTA	ALS VA 49996, 9	AMPS 180, 4	BUS TOTALS KV CONNECTED 141.8		
TDTAL DEMAND 148.65 202 TDTAL DESIGN 203.70 245	9 × 1	B-N C-N	45976. 9 45976. 9 44636. 9	165. 9 161. 1	DEMAND 169.8 DESIGN 204.9	5	

EXISTING PANEL SCHEDULE DETAIL

NOT TO SCALE

NEW PANEL SCHEDULE DETAIL

NOT TO SCALE

PUBLIC WORKS

ENGINEERING DIVISION

FLAG NOTES:

TRACE CIRCUITS AND PROVIDE NEW UPDATED PANEL SCHEDULE, TYPICAL.

 $<\!\!>$ provide NeW Ge tey120, 20 AMP 277V 1 $_{\phi}$ 14kAic breaker to feed volley ball court lights.

DESCRIPTION - REVISION A - - REVISION A - - REVISION A - - REVISION A - -	_DATE_	DRAWN BY AJM DATE 4/19/23 SCALES: DESIGNED BY AJM DATE 4/19/23 CHECKED BY AJM DATE 4/19/23 APPROVED BY EM DATE 4/19/23		Grand Junction
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ACCM CONSULTING ELECTRICAL DESIGN, CONSULTING ENGINEERS, PH: 370-245-7322 PO 3211 GRAND JCT., CO 81502 EMAIL: jedni@ACMengra.com

COLUMBINE PARK LIGHTING PANEL SCHEDULES PLAN



Grand Junction

LIGHTING GENERAL NOTES:

- THIS PROJECT CONSISTS OF WORK TO INSTALL ALL WIRING, CONDUIT, PULL BOXES, NEW LIGHTING, POLES, UTILITY BOXES AND CONCRETE PEDESTALS FOR ADDITION OF TYPE "SA" POLE TOP MOUNTED FIXTURES AS SHOWN IN DRAWINGS.
- 2. PROVIDE 2" PVC SCHEDULE 80 CONDUIT FROM PANEL "PP I " AS SHOWN IN DRAWINGS TO NEW LIGHT LOCATIONS.
- LIGHT STANDARD # LUMINARIES (PEDESTRIAN AND STREET LIGHT), SHALL INCLUDE THE FOLLOWING ITEMS FROM ALL PHASE ELECTRIC LOCATED AT 2776 CRO5SROAD5 BLVD, GRAND JUNCTION, CO 8 I 506, 970.245.603 I. THE ITEMS NUMBERS ARE AS FOLLOWS.
- 4. TYPE "SA" RAB LIGHTING #ALED-5T-78-N-USA, PROVIDE COLLISION BREAK AWAY CONNECTORS. FIXTURE TO BE 10' ABOVE FINISHED GRADE TO BOTTOM OF LIGHT. ORDER WITH PS4-11-10WT POLE
- 5. ALL PEDESTRIAN LIGHTING FIXTURES (TYPE "SA") INSTALLED ON THE PROJECT WILL BE CONTROLLED WITH NEW LIGHTING CONTROLLER WITH NEW PHOTO CELL LOCATED AS SHOWN IN DRAWINGS.
- 6. PULL BOXES FOR CDOT PULL BOXES 11"X18"X12".

DESCRIPTION

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EVISION (

REVISION Z

EVISION /

DATE

- 7. PULL BOXES WILL BE INSTALLED IN GRADES WITHOUT CONCRETE WHERE POSSIBLE.
- 8. ALL ELECTRICAL CONDUIT SHALL BE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE, TYPICAL.
- UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS SHALL INCLUDE PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. FURNISH ALL REQUIRED ITEMS WHETHER SUCH ARE SPECIFICALLY SHOWN OR NOT.
- 10. INFORMATION SHOWN ON DRAWINGS IS DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. OBTAIN VERIFY EVACT LOCATIONS, MEASUREMENTS, LEVEIS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS AMONG TRADES AND FOR ADJUSTING THE WORK REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDER GROUND OBSTRUCTIONS AND MAKING ALLOWANCES FOR FIELD ADJUSTMENT OF LOCATION OF LUMINARIES TO AVOID SHUT DOWN OF ANY SERVICES OR SYSTEMS THAT ARE TO REMAIN.
- 11. BEFORE SUBMITTING THE BID ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE PREMISES AND/OR JOB SITE SO AS TO ASCERTAIN THE EXISTING CONDITIONS IN WHICH THE CONTRACTOR WILL BE OBLIGED TO OPERATE IN PERFORMING HIS PART OF THE CONTRACT TO ANTICIPATE ANY POSSIBLE SPACE RESTRICTIONS OR CONSTRAINTS THAT COULD AFFECT THE TIMELY COMPLETION OF THE ELECTRICAL WORK IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL REPORT TO THE THE PROJECT ENGINEER OR GENERAL CONTRACTOR ANY CONDITIONS THAT MIGHT PREVENT THE SPECIFIED ELECTRICAL WORK FROM BEING PERFORMED IN THE MANNER INTENDED. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED TO THE ELECTRICAL CONTRACTOR FOR FALLWET OVISIT THE PROJECT SITE, OR FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED OR WORK TO BE DONE...
- 12. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES WHOSE WORK RELATES TO OR IS DEPENDENT ON ELECTRICAL WORK TO BECOME FULLY INFORMED OF THE EXTENT AND CHARACTER OF THEIR SPECIFIED WORK AND BE ABLE TO COORDINATE WITH OTHER TRADES WHILE AVOIDING POSSIBLE INTERFERENCE WITH THE ELECTRICAL WORK.
- 13. ONLY AREA LIGHTING WILL BE REPLACED ALL OTHER ITEMS POWERED BY EXISTING POWER PANEL WILL REMAIN POWERED.
- 14. FIELD LOCATE IRRIGATION CONTROL LINES AND AVOID AND PROTECT DURING CONSTRUCTION, TYPICAL.
- 15. RESTRICT OPEN TRENCHING OUTSIDE OF DRIP LINE OF EXISTING TREES TO AVOID DAMAGE TO DRIP LINE.
- 16. UTILIZE DIRECTIONAL BORING AT A MINIMUM DEPTH OF 36 INCHES UNDER THE CANOPY OF EXISTING TREE
- 17. ADJUST LOCATION OF NEW LIGHTS WITH EXISTING TREES. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO TRENCHING.

DRAWN BY ______ DATE ______4/19/23

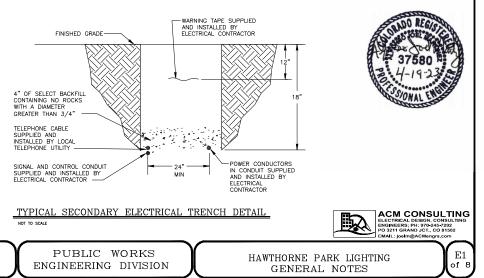
DESIGNED BY AJM DATE 4/19/23

CHECKED BY _AJM ____ DATE _____4/19/23

_____ DATE _____4/19/23

PPROVED BY EM

- PP I -X ELECTRICAL CIRCUIT NUMBER (REFER TO PANEL SCHEDULES)
- UB HEAVY DUTY, TRAFFIC RATED, FLUSH-TO-GRADE POLYMER CONCERTE SPLICE BOX WITH HEAVY DUTY, TRAFFIC RATED, BOLTED COVER. I 1 "XI 92" 12" TYPE 1.
 - UNDER GROUND BURIED RACEWAY (2#6 THWN CU AND I #8 GND) IN 2" PVC CONDUIT (UNLESS NOTED OTHERWISE ON PLANS) IN 24" DEEP TRENCH, BURY AND COMPACTED BACKFILL TO PRE CONSTRUCTION CONDITION.



			Sche	edule of Lighting [Jevices	
TEM No.				613-30003	613-40012	
				LIGHT STANDARD	LIGHT STANDARD	
				AND LUMINAIRE LED	FOUNDATION	
DESCRIPTION				(PEDESTRIAN)	SPECIAL	NOTES
				EACH	EACH	
	7/05		NORTH		21 4 1 1	
SHEET NO.	TYPE	EAST	NORTH	PLAN	PLAN	100
E4	SA-22	90846.45	38068.65	1	1	1,2,3
E4	SA-23	90955.01	38068.69	1	1	1,2,3
E4	SA-24	91143.85	38068.69	1	1	1,2,3
E4	SA-25	91228.92	38068.69	1	1	1,2,3
E4 E4	SA-26	91054.10 91017.66	38077.55	1	1	1,2,3
	SA-27		38114.04		1	1,2,3
E4	SA-28	90844.04	38135.13	1	1	1,2,3
E4	SA-29	91123.20	38148.13	1	1	1,2,3
E4	SA-30	91231.90	38151.46	1	1	1,2,3
E4	SA-31	91047.06	38157.43	1	1	1,2,3
E4	SA-32	91006.51	38185.87	1	1	1,2,3
E4	SA-33	91168.25	38199.30	1	1	1,2,3
E4	SA-34	91076.50	38200.16	1	1	1,2,3
E4	SA-35	90936.51	38202.99	1	1	1,2,3
E4	SA-36	91125.16	38218.71	1	1	1,2,3
E4	SA-37	90862.05	38219.24	1	1	1,2,3
E4	SA-38	91219.32	38221.31	1	1	1,2,3
E4	SA-39	91002.85	38246.10	1	1	1,2,3
E4	SA-40	91051.80	38266.93	1	1	1,2,3
E4	SA-41	91231.90	38276.35	1	1	1,2,3
E4	SA-42	90846.45	38277.52	1	1	1,2,3
E4	SA-43	91123.20	38286.02	1	1	1,2,3
E4	SA-44	91028.73	38321.28	1	1	1,2,3
E4	SA-45	91231.90	38351.66	1	1	1,2,3
E4	SA-46	90846.45	38352.43	1	1	1,2,3
E4	SA-47	90958.76	38356.36	1	1	1,2,3
E4	SA-48	91101.80	38356.65	1	1	1,2,3
ABLE TOTALS				27	27	
ADLE IUIALS				21	21	
SCHEDULE OF LIC	SHTING DEV	ICES NOTES:				
. FOUNDATION T			ACENT SIDE	VALK		
				AY ITEM, TYPICAL.		
		AS SHOWN IN				

	Tabulation of Approximate Quantities												
Item No.	Ref. No. Construction Note Description Quantity Unit NO												
1		2 Inch Electrical Conduit (Plastic)	2445	LF									
2		Type two Pull Box(Electric)	30	EA									
3		Wiring	1	LS									
4		Light Standard and Luminaire (Pedestrian)	27	EA									
5		Light Standard Foundation (Special)	27	EA									
6		Lighting Controller	1	EA									
7													
8													
SUMMAR'	YNOTES:	•											



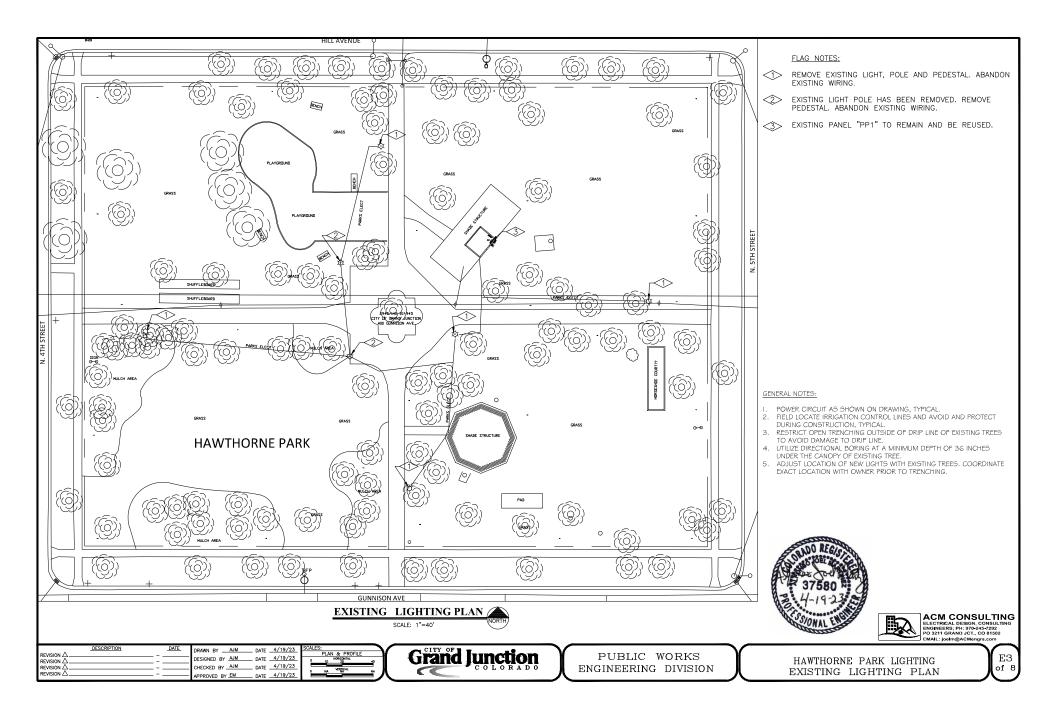
ACM CONSULTING ELECTRICAL DESIGN, CONSULTING ENGINEERS; PH: 970-245-7292 PO 3211 GRAND JCT., CO 81502 EMAIL: joelm@ACMengrs.com

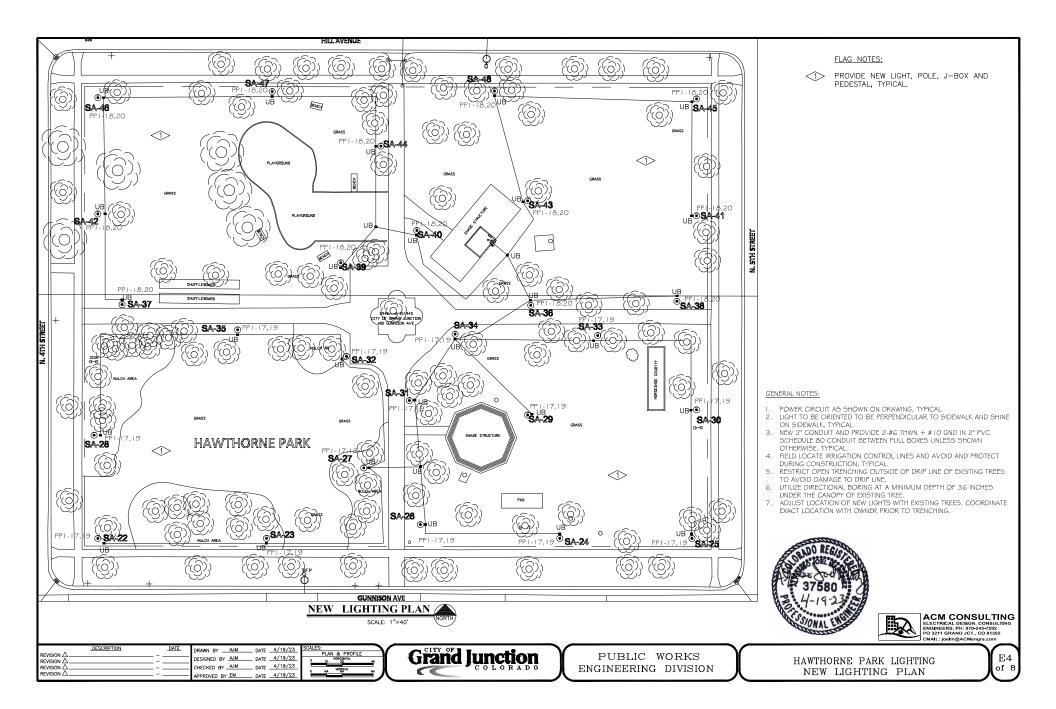
1. EACH LIGHT TO HAVE A PULL BOX "UB", REFERENCE ELECTRICAL SHEETS.

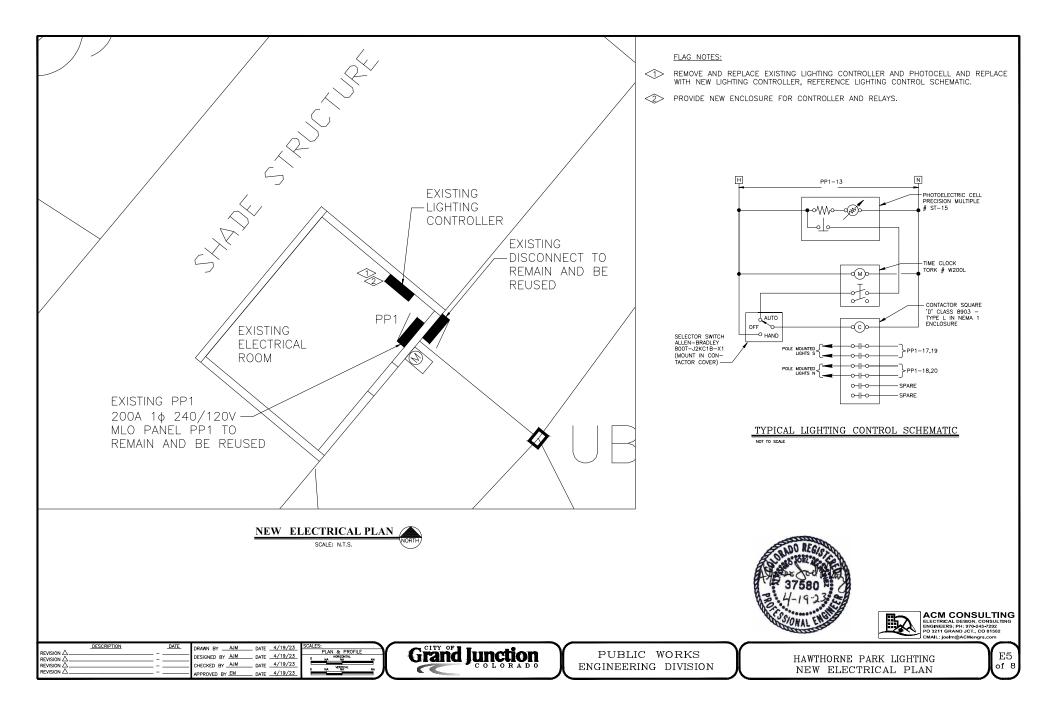
	DESCRIPTION	DATE	DRAWN BY DATE 4/19/23
REVISION △ REVISION △			DESIGNED BY AJM DATE 4/19/23
			CHECKED BY AJM DATE 4/19/23
REVISION Z			APPROVED BY EM DATE 4/19/23

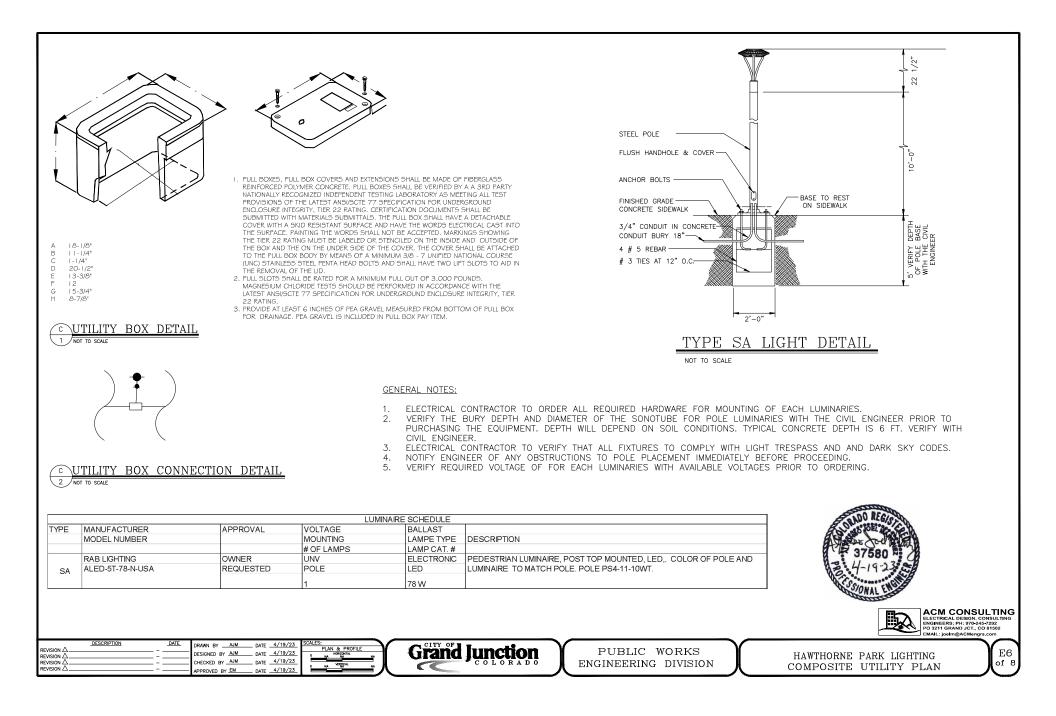
Grand Junction

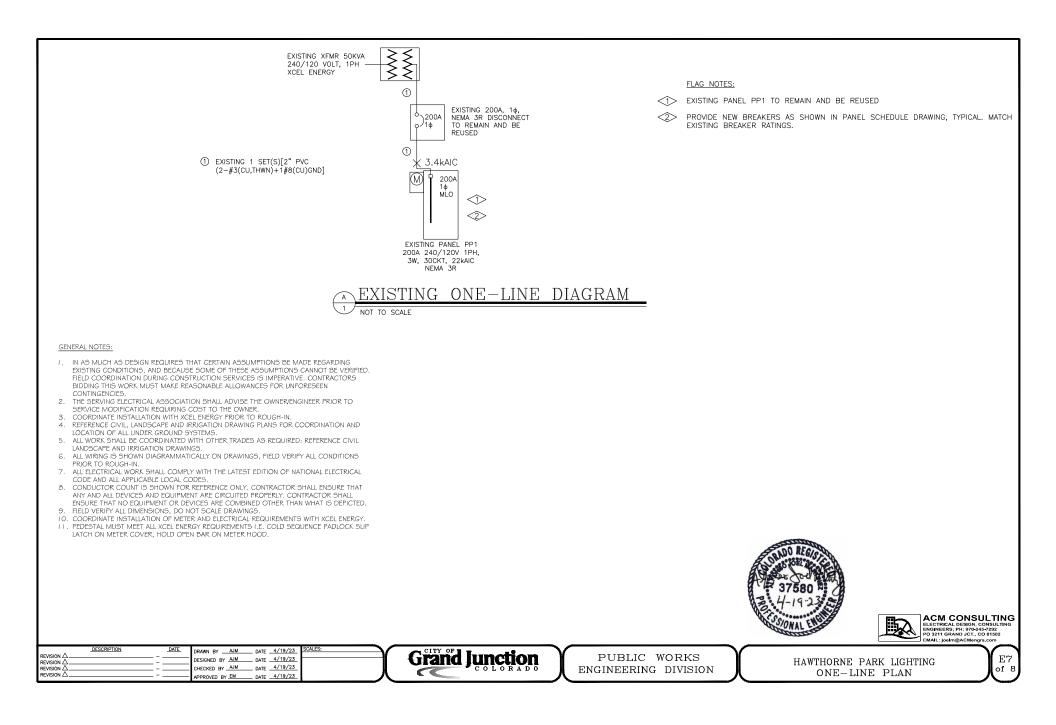












PANEL: PP1 DC DEVICE TYPE: Breaker ENCLOSURE: NEMA 1 MAINS(A): MLD	CDNTINUDUS(A); 225 PAN	iel: PP1 DC DEVIC	E TYPE: Breaker ENCLOSURE: NEMA 1	MAINS(A): MLD	CDNT INUDUS(A) ; 200
PARGET PPT ULLEVICE IPPE Breaker ENGLISHER, REMA MAINSKAJ RULU NAINSKAJ INN. PPT ULLEVICE FARLLY, PIUG IN VOLTAGE TED FROM BUS-XFMRO VICE FARLLY, PIUG IN VOLTAGE 240/120 INCIDENT ENERGY. 2.57 Calver2 €18.00(in) BOUNDARY.28.73(in)	-Phase 3-Wire BUS SC RATING(A) 22000 LDC FAULT CURRENT(A): 2077 FEI	HEL: PP1 UL DEVIL ATION: DEVICE F FRDM: BUS-XFMR0 IDENT ENERGY: 2.57 Cαl/cm2 @18.00(i	AMILY Plug In MOUNTING Surface VOLTAGE 240/	e WIRING Single-Phase 3-W 120	FAULT CURRENT(A): 2000
DC AMPS P NOTES DESCRIPTION DEMAND VA CKT PHASE LIDADS VA CKT VA DEMAND DESCRIPTION	AMPS P AMP		DEMAND VA CKT PHASE LOADS VA CDDE CKT A B C		NDTES DC AMPS P
20 1 LTG-AREA LTS 600 1 2807 2 2304 GENERAL VTR 20 1 LTG-AREA LTS 600 3 2807 4 2304 GENERAL VTR 1 20 1 LTG-AREA LTS 1200 3 4 2304 GENERAL VTR 1 20 1 EXHAUST FANS LTS 1200 5 2414 6 1244 GENERAL 444 GENERAL 43840 7 4981 8 1344 GENERAL 7 3840 7 4981 8 1244 GENERAL 7 3840 9 5040 10 1200 REC RCPT 7	ITR 1 30 1 2 ITR 2 30 1 2 DBYER 1 25 1 2 DPYER 2 25 1 2 - PINE 20 1 2 SPRUCE 20 1 2 (JDCK) 20 1 2	1 LTG- PDLE NV 10 1 LTG-PDLE NE 10 1 EXHAUST FANS 10 2 AIR HANDLER HTR	LTS 546 1 2760 LTS 468 3 2693 LTS 1200 5 2414 GENERAL 3840 7 4981	2 2304 GENERAL WTR HTR 1 4 2304 GENERAL WTR HTR 2 6 1344 GENERAL HAND DRYER 1 8 1344 GENERAL HAND DRYER 2	30 1 30 1 25 1 25 1
20 1 FLUSH VALVES GENERAL 300 11 1500 12 1200 GENERAL RCPT-	-SPRUCE 20 1 2	FLUSH VALVES	GENERAL 3840 9 5040 1500 LTS 600 13 1200 1500 LTS 1200 15 1800 LTS 507 17 1014	6 1344 GENERAL HAND DRYER 2 10 1200 REC RCPT- PINE 12 1200 GENERAL RCPT- SPRUCE 14 600 GENERAL IRCPT- SPRUCE 16 600 GENERAL TIME CLDCK	> 30 1 30 1 25 1 25 1 20 1 20 1 20 1 20 1 20 1 20 2 20 2
20 1 LIS-DUTINGLENC LIS 1200 15 1600 16 600 GENERAL TIME 17 1800 16 600 GENERAL TIME 19 20 21 22 2 23 24		LTS-POST SPRICE	LTS 1200 15 1200 1800 LTS 507 17 1014 507 19 1014 23	16 600 GENERAL TIME CLUCK 18 507 LTS 20 507 22 24	> 20 2
ALL CONNECTED KVA 3P AVE AMPS * PHASE TOTALS VA AMPS BUS TOTAL TOTAL CONNECTED 23.08 55.5 * A-N 11688.0 97.4 CONNECTED TOTAL DEMAND 24.13 58.0 * B-N 11388.0 94.9 DEMAND TOTAL DESIGN 25.44 61.2 * C-N 0.0 0.0 DESIGN	S KYA ALL 25, 54 TO 26, 59 TO 27, 90 TO	CONNECTED KVA 3P AVE AMP AL CONNECTED 24.92 59, AL DEMAND 26.43 63, AL DESIGN 28.32 668,	S * PHASE TOTALS VA 9 * A-N 12648.0 6 * B-N 12270.0 1 * C-N 0.0	AMPS BUS TOTALS KV/ 105.4 CONNECTED 27.33 102.3 DEMAND 28.8 0.0 DESIGN 30.76	A
EXISTING PANEL SCHEDULE		NFW D	ANEL SCHEDULE		
NOT TO SCALE	DETAIL	NOT TO SCALE	ANEL SCHEDULI	5 DETAIL	
FLAG NOTES:					
PROVIDE NEW 20 AMP 240V 1¢ 10KAIC BREAKERS TO MATCH EXISTING RATINGS,	TYPICAL.				
PROVIDE NEW UPDATED PANEL SCHEDULE, TYPICAL					
			555500	REGIS	
			37	80 8 0	
			4-1		
			SION .		ELECTRICAL DESIGN, CONSULTING ENGINEERS; PH: 970-245-7292 PO 3211 GRAND JCT., CO 81502 EMAIL: joelm@ACMengrs.com
DESCRIPTION DATE PRAWN BY AJM Date 4/19/23 SCALES: REVISION A	Grand Junction	PUBLIC WC		AWTHORNE PARK LIGH	
EEVISION △ = CHECKED BY _AJM DATE/19/23_	COLORADO	ENGINEERING D			TING E8 of 8

LIGHTING GENERAL NOTES:

- THIS PROJECT CONSISTS OF WORK TO REMOVE EXISTING FLUORESCENT LIGHTING AND EXISTING GFCI RECEPTACLES AND INSTALL NEW CEILING MOUNTED LIGHTING AND GFCI RECEPTACLES REUSING EXISTING WIRING, CONDUIT, PULL BOXES, AND EXTENDING TO LOCATION AS SHOWN IN DRAWINGS.
- INSTALL NEW TYPE "5A", HUBBELL #NRG-4-30L-U-4K-035-BZ FIXTURE MOUNTED TO CEILING OF EXISTING SHADE STRUCTURE AT LOCATIONS SHOWN IN DRAWINGS.
- 3. NEW TYPE "SA" INSTALLED ON THE PROJECT WILL BE CONTROLLED WITH EXISTING CONTROLLER, PROVIDE NEW PHOTO CELL TO MATCH EXISTING.
- EXISTING SHELTER GFCI, JBOX AND COVER TO BE REMOVED AND REPLACED WITH LEVITON I GM53-GY BOX WITH WM I D-SGY WEATHERPROOF COVER INSTALLED IN VANDAL STOP AA-EB-3R AS SHOWN IN DRAWINGS.
- 5. PULL BOXES FOR CDOT PULL BOXES 11"X18"X12".
- 6. PULL BOXES WILL BE INSTALLED IN GRADES WITHOUT CONCRETE WHERE POSSIBLE.
- 7. ALL ELECTRICAL CONDUIT TO MATCH EXISTING, TYPICAL.
- UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS SHALL INCLUDE PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM, FURNISH ALL REQUIRED ITEMS WHETHER SUCH ARE SPECIFICALLY SHOWN OR NOT.
- 9. INFORMATION SHOWN ON DRAWINGS IS DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. OBTAIN VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS AMONG TRADES AND FOR ADJUSTING THE WORK REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDER GROUND OBSTRUCTIONS AND MAKING ALLOWANCES FOR FIELD ADJUSTMENT OF LOCATION OF LUMINARIES TO AVOID SHUT DOWN OF ANY SERVICES OR SYSTEMS THAT ARE TO REMAIN.
- 10. BEFORE SUBMITTING THE BID ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE PREMISES AND/OR JOB SITE SO AS TO ASCERTAIN THE EXISTING CONDITIONS IN WHICH THE CONTRACTOR WILL BE OBLICED TO OPERATE IN PERFORMING HIS PART OF THE CONTRACT TO ANTICIPATE ANY POSSIBLE SPACE RESTRICTIONS OR CONSTRAINTS THAT COULD AFFECT THE TIMELY COMPLETION OF THE ELECTRICAL WORK IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS THAT MGNONS THAT MGNONS THE THEORY SHALL REPORT TO THE THE PROJECT ENGINEER OR GENERAL CONTRACTOR ANY CONDITIONS THAT MGNONS THAT MGNONS THE SPECIFIED ELECTRICAL WORK, FROM BEING PERFORMED IN THE MANNER INTENDED. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED TO THE ELECTRICAL CONTRACTOR FOR FAILURE TO VISIT THE PROJECT SITE, OR FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED OR WORK TO BE DONE..
- 11. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES WHOSE WORK RELATES TO OR IS DEPENDENT ON ELECTRICAL WORK TO BECOME FULLY INFORMED OF THE EXTENT AND CHARACTER OF THEIR SPECIFIED WORK AND BE ABLE TO COORDINATE WITH OTHER TRADES WHILE AVOIDING POSSIBLE INTERFERENCE WITH THE ELECTRICAL WORK.

- PPI-X ELECTRICAL CIRCUIT NUMBER (REFER TO PANEL SCHEDULES)
- UB HEAVY DUTY, TRAFFIC RATED, FLUSH-TO-GRADE POLYMER CONCRETE SPLICE BOX WITH HEAVY DUTY, TRAFFIC RATED, BOLTED COVER. I [*:] 8*1 | 2* "TYPE 1.
 - UNDER GROUND BURIED RACEWAY (2#G THWN CU AND 1#8 GND) IN 2" PVC CONDUIT (UNLESS NOTED OTHERWISE ON PLANS) IN 24" DEEP TRENCH, BURY AND COMPACTED BACKFILL TO PRE CONSTRUCTION CONDITION.
- SA NEW LUMINIARE STANDARD AS SPECIFIED.

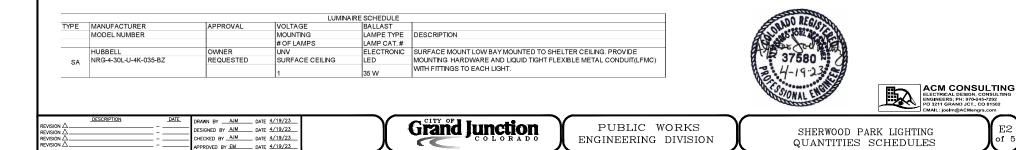




DESCRIPTION	DATE DR	AWN BY AJM	DATE	4/19/23	SCALES:
REVISION A				4/19/23	
REVISION A	DES	SIGNED BY AJM	_ DATE		
REVISION 🛆	CH	ECKED BYAJM	_ DATE	4/19/23	
REVISION \triangle	APP	PROVED BY EM	DATE	4/19/23	

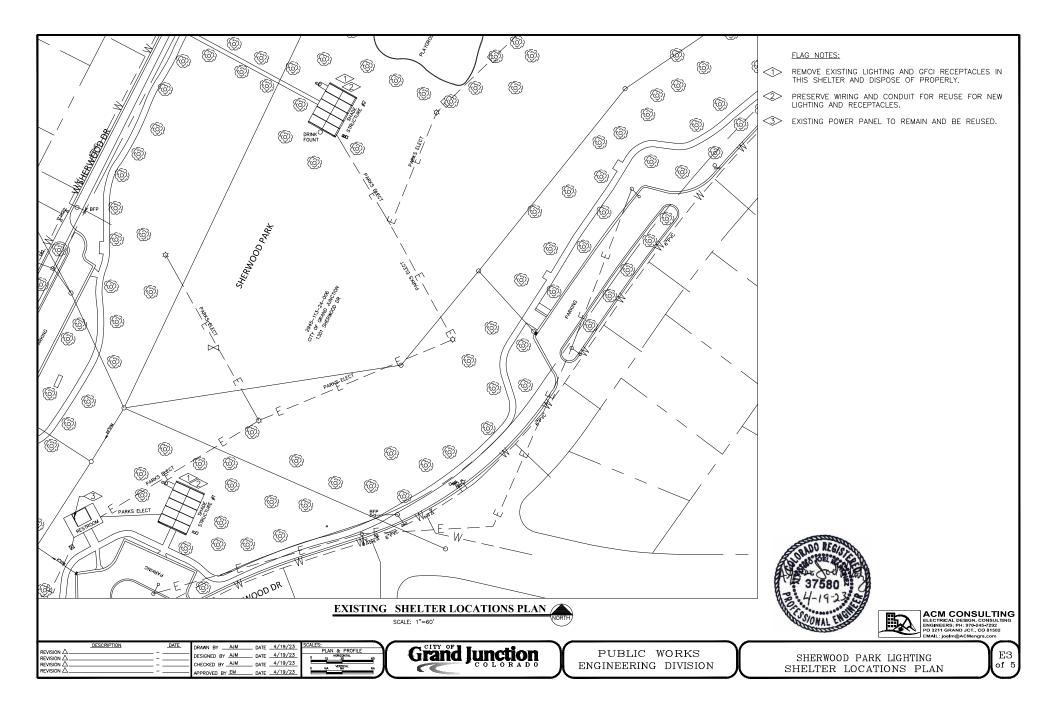


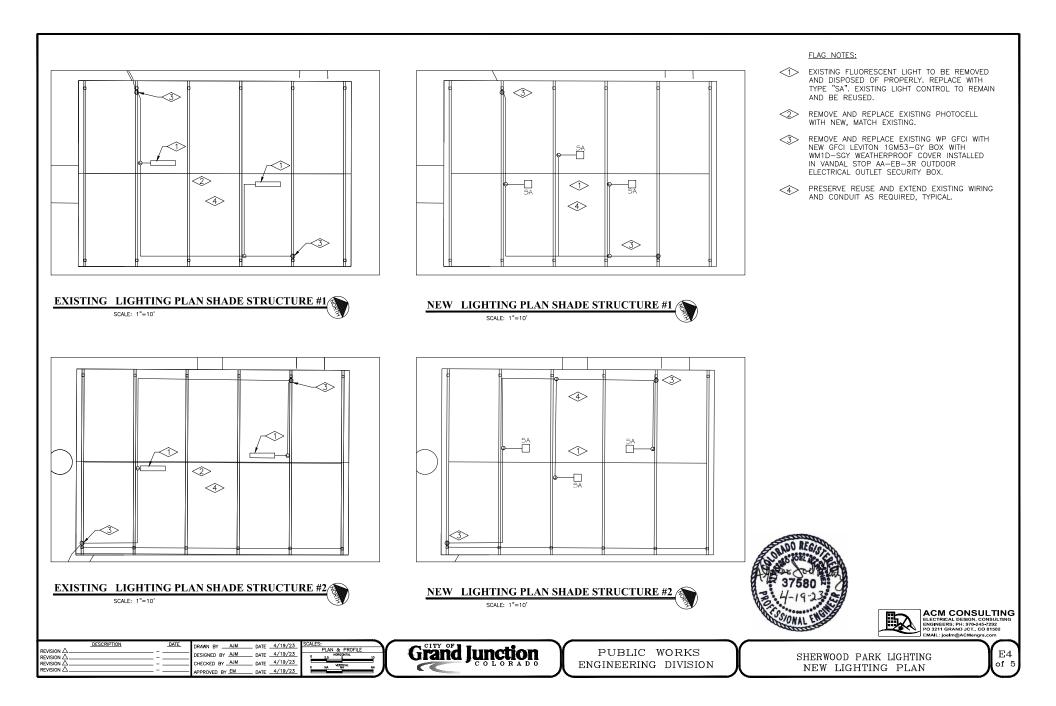
		Tabulation of Approximate Quar	ntities							
ltem No.	Ref. No.	Construction Note Description								
1		Wiring	1	LS						
2		Hubbell Luminaire	6	ΕA						
3		LEVITON 1GM53-GY BOX WITH WM1D-SGY	4	ΕA						
4		VANDAL STOP AA-EB-3R	4	ΕA						
5										
6										
7										
8										
SUMMAR	YNOTES:									



GENERAL NOTES:

- EXTEND EXISTING WIRING AND CONDUIT TO NEW LIGHT LOCATIONS SHOWN ON DRAWINGS.
 PROVIDE MOUNTING HARDWARE FOR NEW LIGHTS, TYPICAL.





FED FRD		DC DEVICE DEVICE FAM 00 Cal/cm2 @18.00(in)		aker 1g In	ME	DUNTING: DLTAGE:	NEMA 1 Surface 208/1 0.00(in)		MAII WIR	NSCA): ML ING: S		nase 3-Wire	CONTINUOUS(A): BUS SC RATING(A) FAULT CURRENT(A):	225 10000 0
DC AMPS P	NDTES	DESCRIPTION	DEMAND CODE	VA	скт		LDADS VA B C	СКТ	VA	DEMAND CDDE	DESCRIF	PTION	NDTES	DC AMPS P
20 1 20 1 20 1 30 1 15 2 20 1 15 2 15 1 0 1 0 1		LTS-EXTERIOR RCPT ITS-EXTERIOR WATER HTR S. WATER HTR N. SPARE SPARE LTS-S. PARK LTS-S. PARK SPRINKLERS SYS SPACE SPACE SPACE	GENERAL GENERAL GENERAL GENERAL SPARE GENERAL SPARE GENERAL GENERAL SPACE SPACE SPACE	- - - - 0 0	3 5 7 9 11 13 15 17	0 0 0 0 0		2 4 6 8 10 2 4 6 8 10 2 4 6 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	_ 0 _ 0 _ 0 _ 0 0 0 0 0 0 0 0 0	RECEPTA LTS SPACE SPACE	N. HANI LTS-N. HEATING LTS-S. RCPT-S. RCPT-N.	D DRYER PARK 5 UNIT		20 2 20 2 20 2 40 2 20 1 20 1 20 1 20 1 20 1 20 1 20 1 0 1 0 1
ALL CONT TOTAL CO TOTAL DE TOTAL DE	DNNECTED EMAND	KVA 3P AVE AMPS 0, 00 0, 0 0, 0 0, 0 0, 00 0, 0 0, 0 0, 0 0, 00 0, 0 0, 0 0, 0	,	PHASE A-N B-N C-N	тоти	NLS	VA 0. 0 0. 0 0. 0	AMF 0. 0. 0.	0	BUS CONNE DEMAN DESIO	٩D	KVA 1. 20 1. 20 1. 20		12, 2023 44:44

EXISTING PANEL SCHEDULE DETAIL

NOT TO SCALE

