



Hawthorne Park City of Grand Junction Colorado

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Location



Hawthorne Park Grand Junction Colorado

Located at: 400 Gunnison Ave, Grand Junction, CO 81501

Size: Approximately 3.5 Acres

Amenities: Grill, Open Space, Picnic Tables, Playground, Restrooms, Shelters (2), Bocce Ball, Shuffleboard court (2)

TEAM PAIN SKATE PARKS

A CUSTOM SKATE PARK DESIGN/BUILD COMPANY

Summary of Hawthorne Park

In September 2023, Team Pain was tasked by the City of Grand Junction to develop a conceptual plan to reimagine and modernize Hawthorne Park. The following is a summary of our findings with recommendations:

History

Located on Gunnison Avenue, Hawthorne Park, previously known as Walnut Park, is one of the four original recreational parks within the City of Grand Junction. In 1895, women from the Grand Junction Loyal Temperance Legion were granted permission by the town council to beautify the park. On Arbor Day of that year, work began alongside school children to plant walnut trees throughout the park. It then became known as Children's Park. In 1909, a new school building was built at 4th and Hill and named Hawthorne School, after

American Novelist Nathanial Hawthorne. The fountain at the center of the park was also installed that included koi fish and lily pads. A year later, a Balsam tree was planted in the park from the home of Nathanial Hawthorne and in 1910, the park was renamed Hawthorne Park and a large playground was added.

Current Day Site Information

Today, the park is divided into 4 quadrants, with each area sectioned off by deteriorating asphalt. The fountain feature, although not in working condition, still stands in the middle of the park. Because of the historical significance, this feature should be kept into future development of Hawthorne Park. The site sits under a beautiful tree canopy that will need to be incorporated into the updated design. There is an outdated playground at the northwest quadrant of the park that is set to be updated in fiscal year 2025. In the northeast quadrant, sits a brick-and-mortar restroom with a small covered seating area. The southeast quadrant houses an octagon shade feature and bocci ball court. The area surrounding the park is residential with a good mix of younger families and working professionals.

Project approach

Team Pain met with City of Grand Junction representatives in late September 2023 to begin developing a plan to update Hawthorne Park. A tree study was commenced to determine the area that could be developed while also not disturbing any of the canopy. There were no trees noted that are sick or needed to be removed. Most were healthy and in good shape. 101 trees were noted on the plan. Any concept would need to be developed in a way to not disturb the root zone of these trees. An additional 20 trees were determined to be small enough to relocate. 14 trees were identified as Memorial Trees that needed to stay in place.

In October 2023, Team Pain met with City Officials to determine what site improvements to include in the conceptual design. They expressed the need for a pump track park that would include elements to attract new users to the sport in a safe and noncompetitive space. City Representatives also envisioned a yoga or fitness space that is fenced off and could be used as a private rentable space for events.

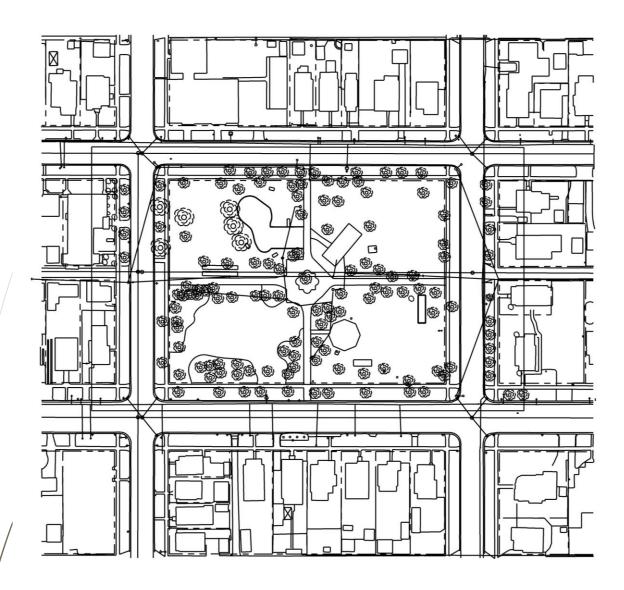
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Working through the conceptual design process, it was determined the construction budget for this project is \$360,000 for fiscal year 2024. During several planning sessions and budget analysis with the City, it was realized that the City's requests, would cost upwards of \$560,000. Therefore, a phasing approach of over 2 years would be the best option for Grand Junction to have all the desired amenities without compromising the quality of the amenities. During fiscal year 2024, the design/and planning work for the entire project would take place. The grass area in the two southern quadrants is approximately 21,000 square feet. When you take in to account the tree canopy and root system, a 7-10k square foot pump could be constructed that winds through the tree canopy and connects the two lower southern quadrants of the park. Smaller trees that were identified on the survey as relocatable will be placed around the skating area to provide additional shade in years to come. After meeting with the City, it was determined it would be best to remove the existing octogen shade feature and relocate the bocca ball court to another facility. This will allow for additional design space on the southeast quadrant for the pump track. The existing asphalt sidewalks are in poor condition and will need to be replaced for safety reasons. Because the cost to remove and replace the sidewalks could exceed \$90,000, a recommended cost saving measure would be to have the Public Works Department self-perform this with the Parks Department covering the cost of materials as they have done with previous trail projects. Musco was tasked to create a lighting plan. It was determined three fixtures (SA29, SA31, and SA27) and the electrical feeds to the lights in the SW and SE quadrants would need to be taken into consideration when finalizing the final layout and design of the pump track. Minimal landscaping should also be included in the 2024-year budget. The cost for updating the irrigation system is unknown at this time, but we do have concerns with the age of the system. Depending on the materials and quantities used for the pump track, the City may need to consider stormwater collection and treatment methods, including collection ground water through a "bioswale".

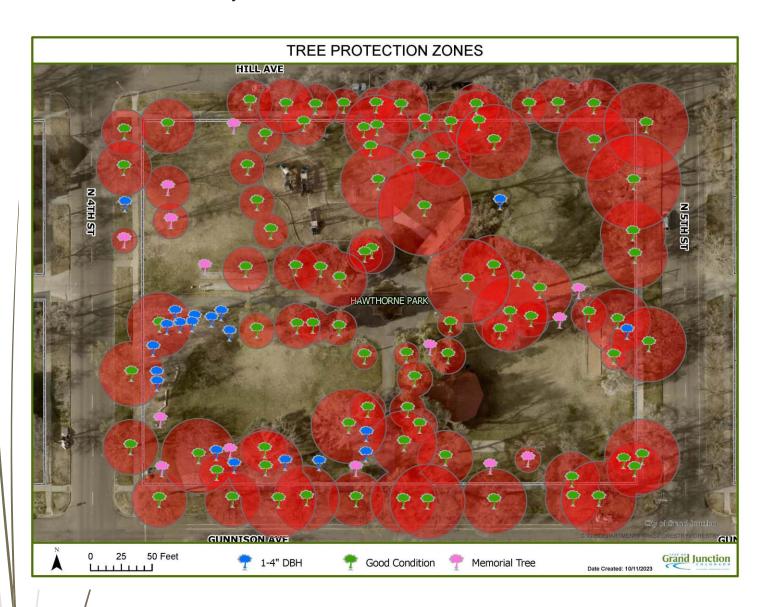
For fiscal year 2025, the construction improvements to the northside of the park would take place. We are recommending an updated playground and adding a yoga and dance area that includes 30' x 60' deck with pillars and removable shades. This area would also be fenced off with wrought iron decorative fencing to match fencing at Lincoln Park and Stocker Stadium. This would allow for private events and rentals to take place. Landscaping of local native pollinator plants that require minimal water will surround the yoga area. Because of the historical nature of the planter fountain, we are recommending some concrete repair work so it may be kept in the new design of the park.

DWG File

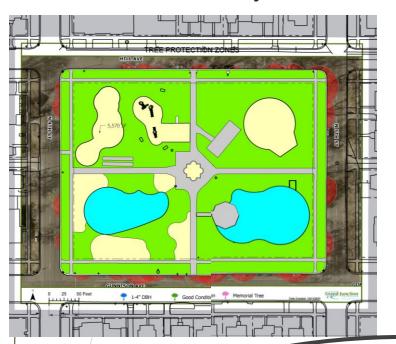


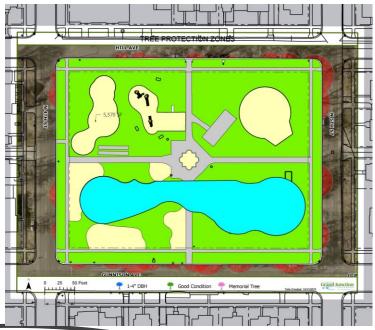
Hawthorne Park
Grand Junction Colorado
DWG file Provided by City of Grand
Junction

Tree Survey



Hawthorne Park
Grand Junction Colorado
Tree Survey Provided by City of
Grand Junction

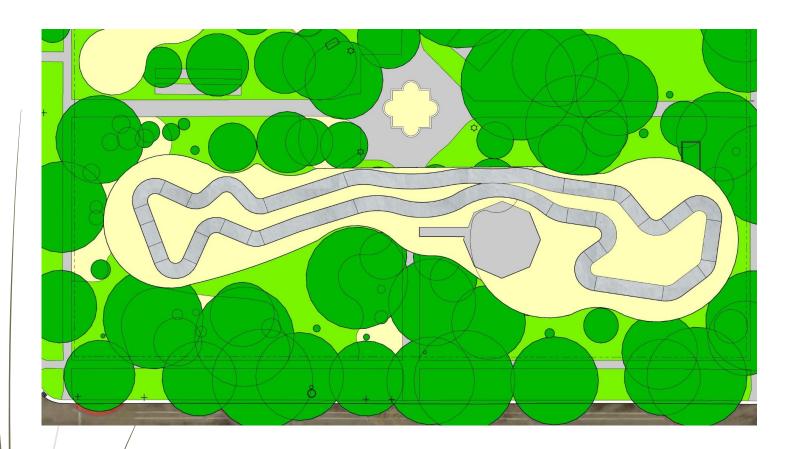




The Pumptrack area is broken up into the southwest and southeast corner of the park. The City wishes to connect these two areas together by removing a few trees and possibly the shelter in that area to make the connection.

Please note: Depending on the materials and quantities used for the pump track, the City may need to consider stormwater collection and treatment methods, including collection ground water through a "bioswale".





Conceptually designed for beginners and intermediate users

Total area is approximately 24,000 SF of useable space

The pumptrack is estimated to be 7,000 SF to 10,000 SF of concrete

Pump Track Examples





Pump Track Examples





Project 1 - Concrete Pump Track Estimate

Design Cost Estimate

Planning and design \$10,000.00

Construction documents \$15,000.00

Allowance for permitting \$ 1,500.00

\$26,500.00 Total Estimate

Construction Cost Estimate

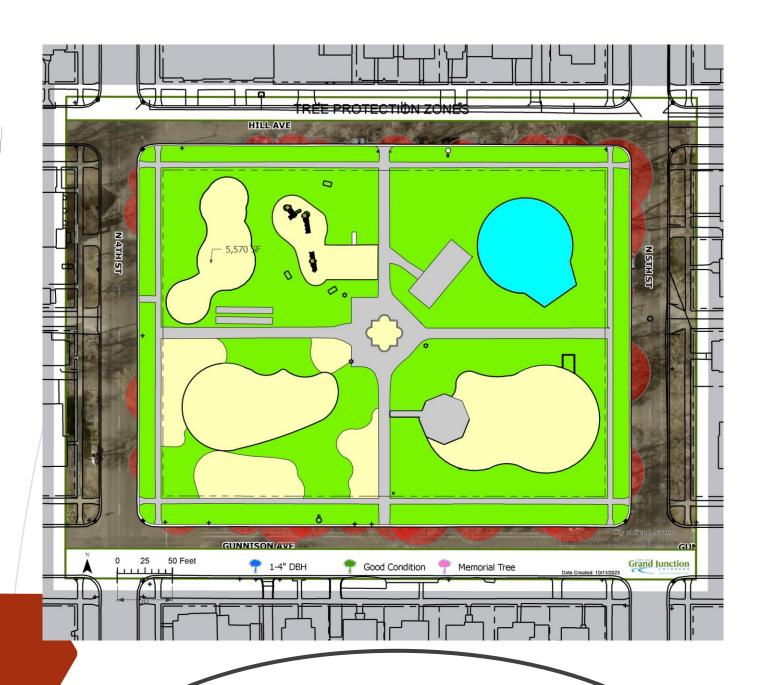
Demo and temporary site fencing \$ 15,000.00

Concrete pump track \$290,000.00

Allowance for pavilion removal, if required \$ 25,000.00

\$330,000.00 Total Estimate

^{**}Irrigation costs to be provided by City



Northeast Flex Space

This area is intended to be designed as a fenced area with deck and covering that could be used as a rentable flex space for Yoga and other activities.

Please note: it was determined it would be best to remove the existing octogen shade feature and relocate the bocca ball court to another facility. that the city

Concept Design Example





Flex Space
Conceptually designed as a 43' Radius
With a 30' x 60' deck and shade structure.
Fencing is approximately 290' that
includes a programmable locking push
button combination on the gate.







Yoga Studio Vision covered deck with diffused natural light and possible ascent lighting for evening events.



Flex space is to be secured with Ameristar: Montage II Genesis fencing 6' tall with programmable locking combination gate.





Incorporating native plants that require little water into the space, that attract pollinators.

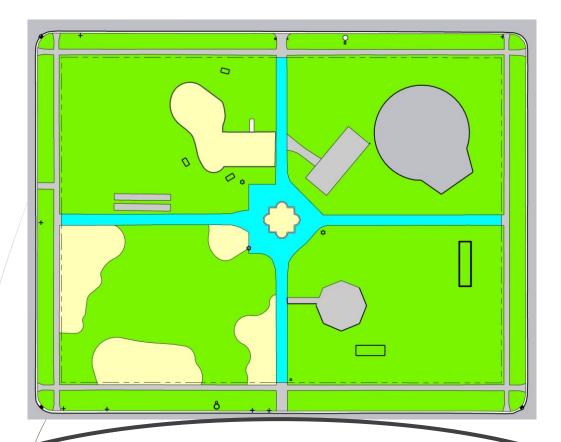




The City is open to the addition of artistic pathways in and around the flex space.

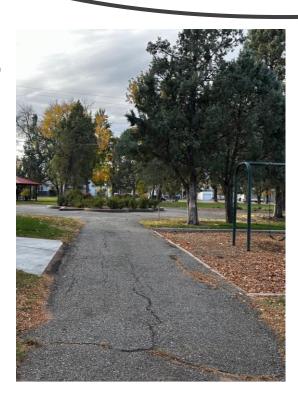


Project 3 - Sidewalk Replacement and Center Planter Curb Restoration



Sidewalk replacement inside the park.

The asphalt walkways inside with park need to be replaced with concrete sidewalks.

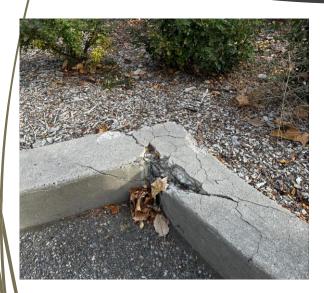




Project 3 - Sidewalk Replacement and Center Planter Curb Restoration



Center planter curb has historical value and needs to be repaired to preserve the integrity for the future of the park.





Project 3 - Sidewalk Replacement and Center Planter Curb Restoration

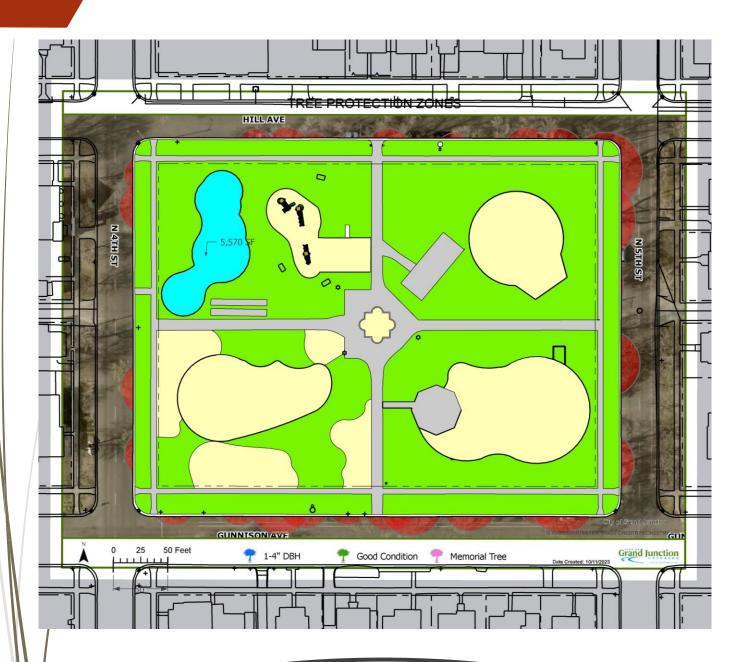
Estimated Costs

City, In-house \$25,000.00 Concrete material estimate 8,500 SF

City, In-house \$65,000.00 Labor estimate

City, In-house \$ 5,000.00
 Curb restoration estimate

Project 4 - Playground Expansion (not part of this project)



Northwest Playground Area
There will be \$600,000 dedicated to the
expansion of the playground in 2025 as
a separate project that is not part of
this current project.

Project 4 - Playground Expansion (not part of this project)







Photos of Northwest Playground Area



Additional amities inside the park that need to be protected or replaced if disturbed

Project 5 – Updated Lighting at the site

Lighting Plan

Musco was tasked to create a lighting plan. It was determined three fixtures (SA29, SA31, and SA27) and the electrical feeds to the lights in the SW and SE quadrants would need to be taken into consideration when finalizing the final layout and design of the pump track.

See Attached lighting plan regarding preliminary lighting improvement changes

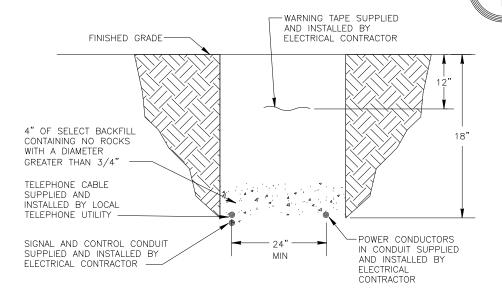
LIGHTING GENERAL NOTES:

- I. 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
- 3. LIGHT STANDARD & LUMINARIES (PEDESTRIAN AND STREET LIGHT), SHALL INCLUDE THE FOLLOWING ITEMS FROM ALL PHASE ELECTRIC LOCATED AT 2776 CROSSROADS BLVD, GRAND JUNCTION, CO 81506, 970.245.6031. 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 | | "X | 8"X | 2".
- 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
- 9. 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.
- IO. 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.
- II. 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..
- I 2. 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 MEMS POWERED BY EXISTING POWER PANEL WILL REMAIN POWERED
- 14. FIELD LOCATE IRRIGATION CONTROL LINES AND AVOID AND PROTECT DURING CONSTRUCTION, TYPICAL.
- 15. UTILIZE OPEN TRENCH FOR CONDUIT AS MUCH AS POSIBLE, TRENCH OUTSIDE OF DRIP LINE OF EXISTING TREES TO AVOID DAMAGE TO EXISTING TREES. PROVIDE TRENCHING PLAN TO OWNER PRIOR TO START OF TRENCHING.
- I G. ADJUST LOCATION OF NEW LIGHTS WITH EXISTING TREES. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO TRENCHING.

- 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 I "X I 8"X I 2" TYPE I.
 - 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.
 - INSTALL POST TOP MOUNTED PEDESTRIAN STANDARD AS SPECIFIED.

PRELIMINARY NOT FOR CONSTRUCTION

DATE: 10/25/23



TYPICAL SECONDARY ELECTRICAL TRENCH DETAIL

NOT TO SCALE



Grand Junction

PUBLIC WORKS ENGINEERING DIVISION

HAWTHORNE PARK LIGHTING GENERAL NOTES

E1 of 8

FF.1.5.			00110	edule of Lighting [613-30003		
TEM No.				100 0 0 0 0000 0 0000 0 000	613-40012	
				LIGHT STANDARD	LIGHT STANDARD	
NECODIDITION.				AND LUMINAIRE LED	FOUNDATION	NOTES
DESCRIPTION				(PEDESTRIAN)	SPECIAL	NOTES
				EACH	EACH	
SHEET NO.	TYPE	EAST	NORTH	PLAN	PLAN	
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	SA-26	91054.10	38077.55	1	1	1,2,3
E4	SA-27	91017.66	38114.04	1	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	
CHEDULE OF LIC	SHTING DEVI	ICES NOTES:				
FOUNDATION TO	OP HEIGHT E	EQUAL TO ADJ		WALK PAY ITEM, TYPICAL.		

Tabulation of Approximate Quantities								
Item No.	Ref. No.	Construction Note Description	Quantity	Unit	NOTES			
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	EΑ				
5		Light Standard Foundation (Special)	27	EΑ				
6		Lighting Controller	1	EA				
7								
8								
SUMMAR'	SUMMARY NOTES:							

PRELIMINARY
NOT FOR
CONSTRUCTION

DATE: 10/25/23

TOOND (HON TOT TIET

GENERAL NOTES:

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

<u>DESCRIPTION</u> REVISION ↑ PATH TO AVOID TREE DRIPLINE	<u>DATE</u> _ 10-25-23	DRAWN BY AJM DATE 4/19/23
REVISION A PAIN TO AVOID THEE BRIFEINE	- <u>10-23-23</u>	DESIGNED BY AJM DATE 4/19/23
REVISION A		CHECKED BY AJM DATE 4/19/23
REVISION \triangle		APPROVED BY EM DATE 4/19/23

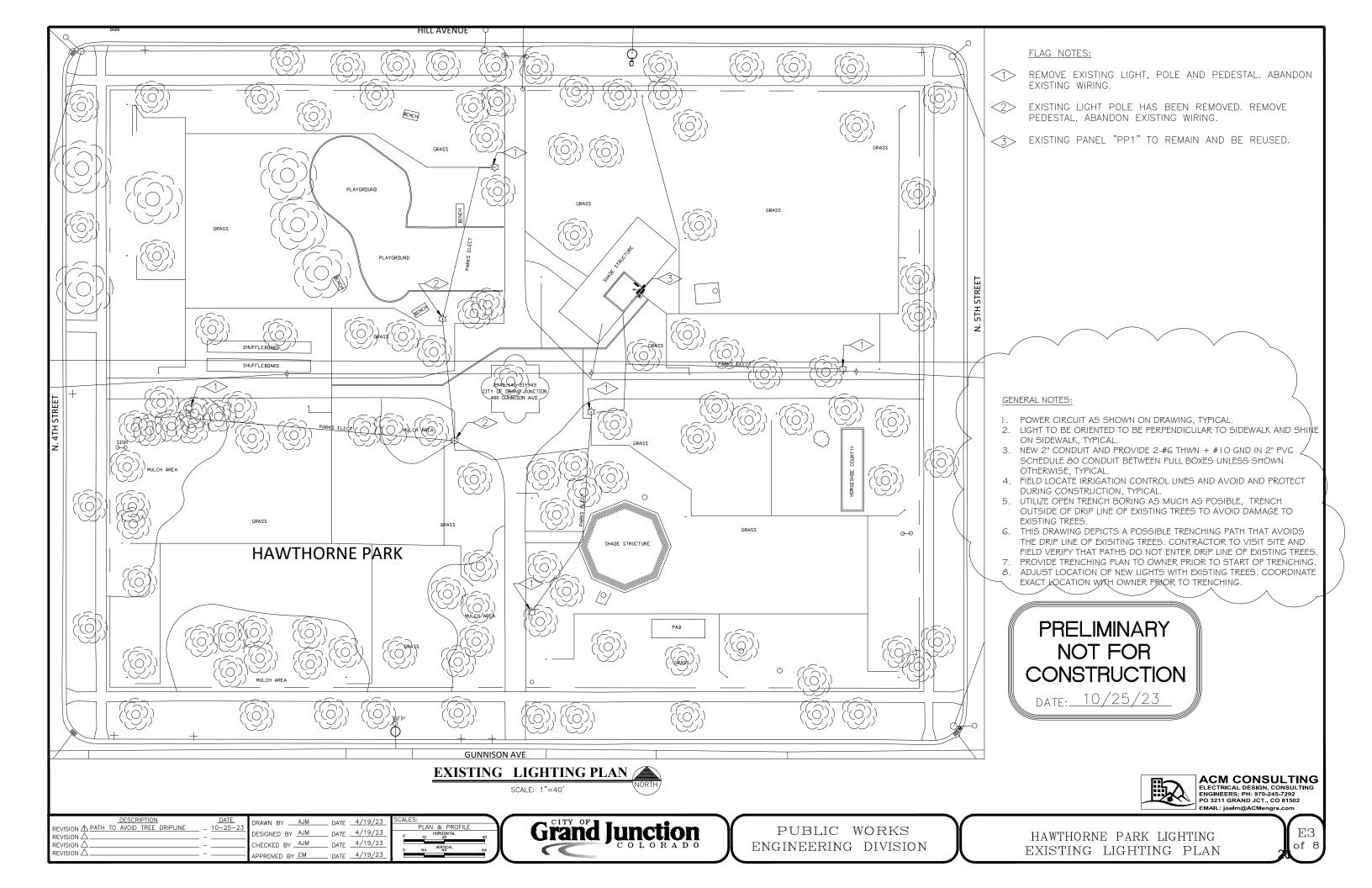


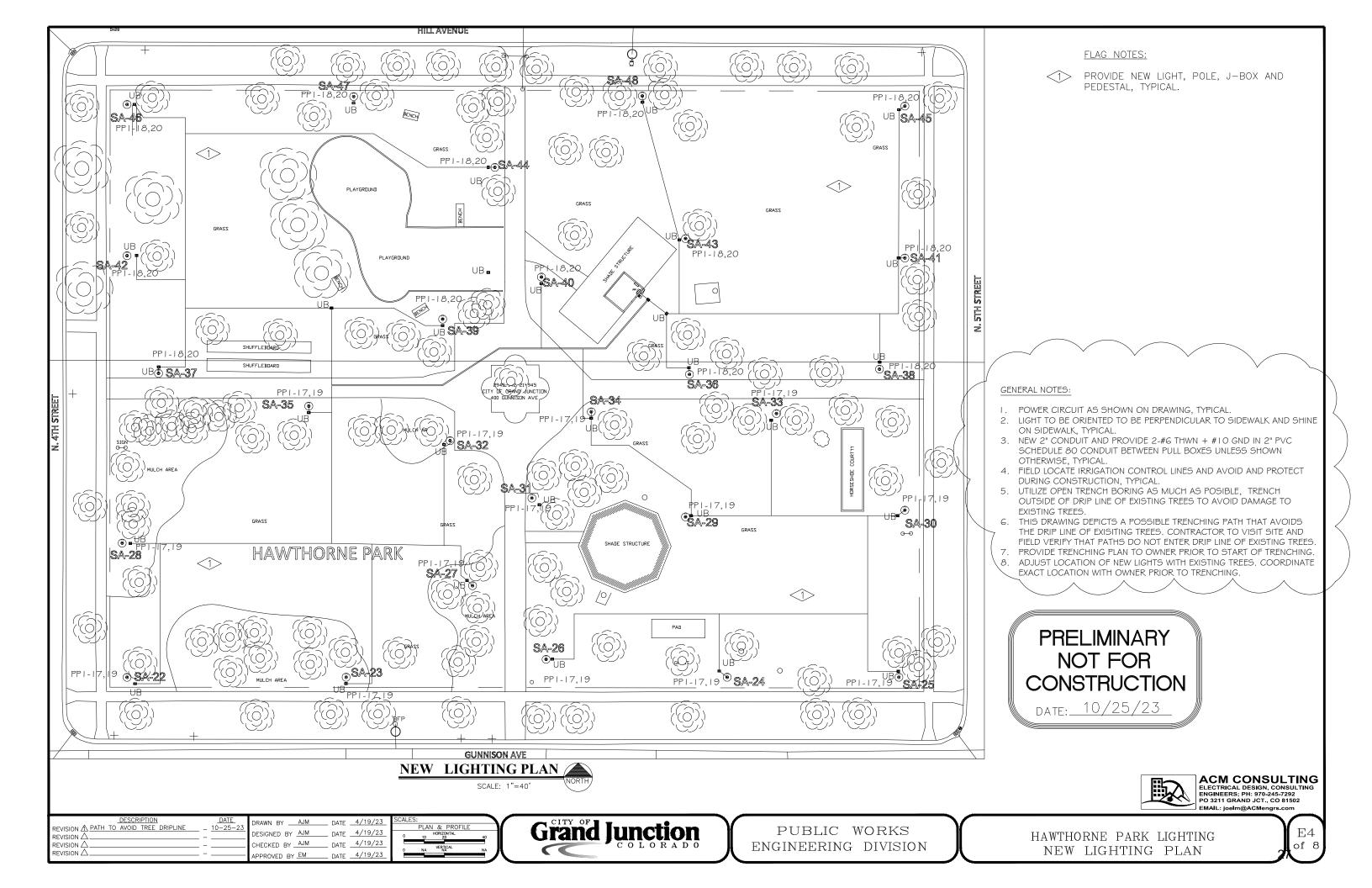
PUBLIC WORKS ENGINEERING DIVISION

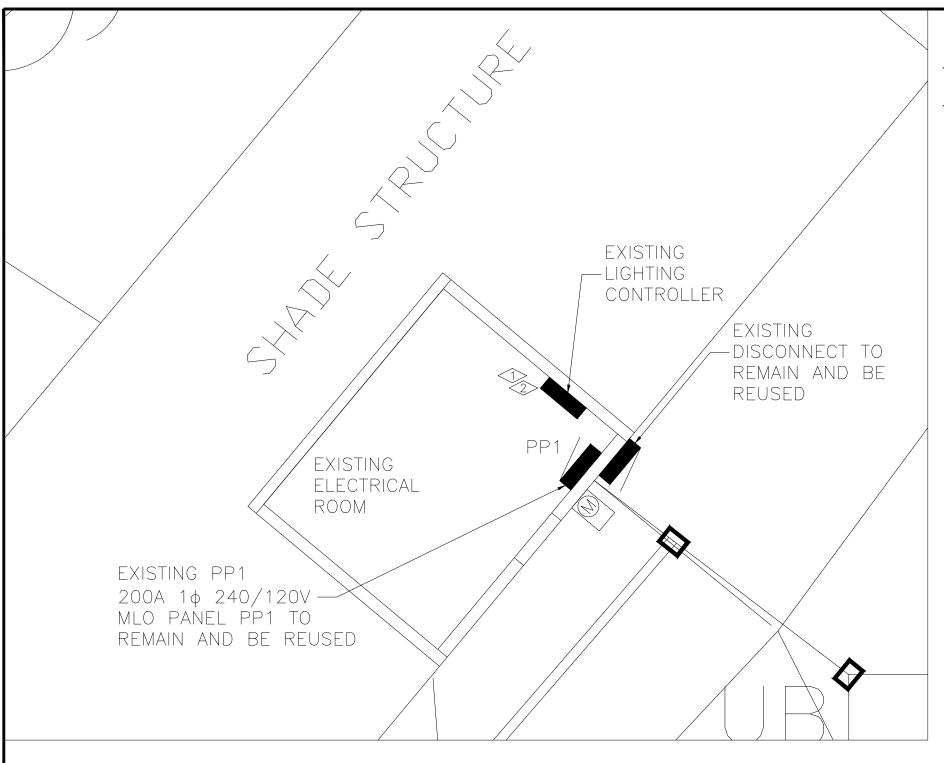
ACM CONSULTING
ELECTRICAL DESIGN, CONSULTING
ENGINEERS; PH: 970-245-7292
PO 3211 GRAND JCT., CO 81502
EMAIL: joelm@ACMengrs.com

HAWTHORNE PARK LIGHTING QUANTITIES SCHEDULES



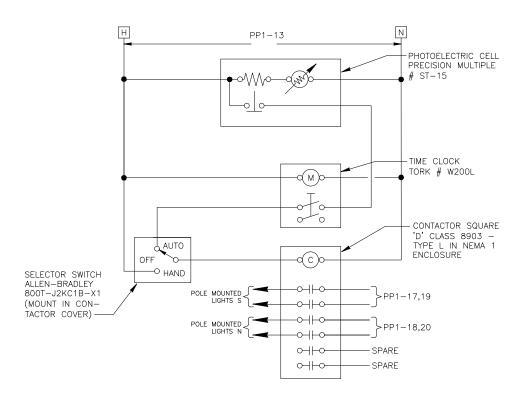






FLAG NOTES:

- REMOVE AND REPLACE EXISTING LIGHTING CONTROLLER AND PHOTOCELL AND REPLACE WITH NEW LIGHTING CONTROLLER, REFERENCE LIGHTING CONTROL SCHEMATIC.
- $\hat{z}
 angle$ provide new enclosure for controller and relays.



TYPICAL LIGHTING CONTROL SCHEMATIC

NOT TO SCAL

PRELIMINARY
NOT FOR
CONSTRUCTION
DATE: 10/25/23

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

 DESCRIPTION
 DATE
 DATE
 AJM
 DATE
 4/19/23

 REVISION △
 DESIGNED BY
 AJM
 DATE
 4/19/23

 REVISION △
 CHECKED BY
 AJM
 DATE
 4/19/23

 REVISION △
 APPROVED BY
 BM
 DATE
 4/19/23



NEW ELECTRICAL PLAN

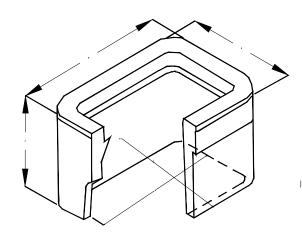
SCALE: N.T.S.

Grand Junction

PUBLIC WORKS ENGINEERING DIVISION

HAWTHORNE PARK LIGHTING NEW ELECTRICAL PLAN

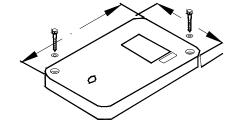
E5 of 8



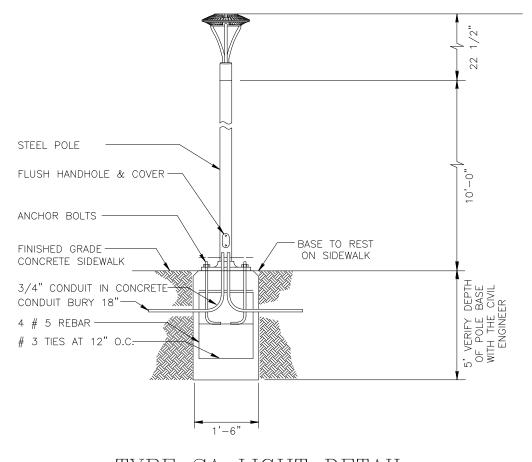
A | 18-1/8" B | 11-1/4" C | 1-1/4" D | 20-1/2" E | 13-3/8" F | 12 G | 15-3/4"

8-7/8"



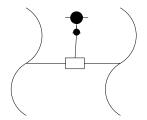


- I. PULL BOXES, PULL BOX COVERS AND EXTENSIONS SHALL BE MADE OF FIBERGLASS REINFORCED POLYMER CONCRETE. PULL BOXES SHALL BE VERIFIED BY A A 3RD PARTY NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY AS MEETING ALL TEST PROVISIONS OF THE LATEST ANSI/SCTE 77 SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY, TIER 22 RATING. CERTIFICATION DOCUMENTS SHALL BE SUBMITTED WITH MATERIALS SUBMITTALS. THE PULL BOX SHALL HAVE A DETACHABLE COVER WITH A SKID RESISTANT SURFACE AND HAVE THE WORDS ELECTRICAL CAST INTO THE SURFACE. PAINTING THE WORDS SHALL NOT BE ACCEPTED. MARKINGS SHOWING THE TIER 22 RATING MUST BE LABELED OR STENCILED ON THE INSIDE AND OUTSIDE OF THE BOX AND THE ON THE UNDER SIDE OF THE COVER. THE COVER SHALL BE ATTACHED TO THE PULL BOX BODY BY MEANS OF A MINIMUM 3/8 7 UNIFIED NATIONAL COURSE (UNC) STAINLESS STEEL PENTA HEAD BOLTS AND SHALL HAVE TWO LIFT SLOTS TO AID IN THE REMOVAL OF THE LID.
- PULL SLOTS SHALL BE RATED FOR A MINIMUM PULL OUT OF 3,000 POUNDS.
 MAGNESIUM CHLORIDE TESTS SHOULD BE PERFORMED IN ACCORDANCE WITH THE
 LATEST ANSI/SCTE 77 SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY, TIER
 22 RATING.
- 3. PROVIDE AT LEAST 6 INCHES OF PEA GRAVEL MEASURED FROM BOTTOM OF PULL BOX FOR DRAINAGE. PEA GRAVEL IS INCLUDED IN PULL BOX PAY ITEM.



TYPE SA LIGHT DETAIL

NOT TO SCALE



CUTILITY BOX CONNECTION DETAIL

2 NOT TO SCALE

GENERAL NOTES:

- 1. ELECTRICAL CONTRACTOR TO ORDER ALL REQUIRED HARDWARE FOR MOUNTING OF EACH LUMINARIES.
- 2. VERIFY THE BURY DEPTH AND DIAMETER OF THE SONOTUBE FOR POLE LUMINARIES WITH THE CIVIL ENGINEER PRIOR TO PURCHASING THE EQUIPMENT. DEPTH WILL DEPEND ON SOIL CONDITIONS. TYPICAL CONCRETE DEPTH IS 6 FT. VERIFY WITH CIVIL ENGINEER.
- 3. ELECTRICAL CONTRACTOR TO VERIFY THAT ALL FIXTURES TO COMPLY WITH LIGHT TRESPASS AND AND DARK SKY CODES.
- 4. NOTIFY ENGINEER OF ANY OBSTRUCTIONS TO POLE PLACEMENT IMMEDIATELY BEFORE PROCEEDING.
- 5. VERIFY REQUIRED VOLTAGE OF FOR EACH LUMINARIES WITH AVAILABLE VOLTAGES PRIOR TO ORDERING.

	LUMINAIRE SCHEDULE LUMINAIRE SCHEDULE									
TYPE	MANUFACTURER	APPROVAL	VOLTAGE	BALLAST						
	MODEL NUMBER		MOUNTING	LAMPE TYPE	DESCRIPTION					
			# OF LAMPS	LAMP CAT. #						
	RAB LIGHTING	OWNER	UNV	ELECTRONIC	PEDESTRIAN LUMINAIRE, POST TOP MOUNTED, LED,. COLOR OF POLE AND					
SA	ALED-5T-78-N-USA	REQUESTED	POLE	LED	LUMINAIRE TO MATCH POLE. POLE PS4-11-10WT.					
0, 1			1	78 W						
			1.*	1						

PRELIMINARY
NOT FOR
CONSTRUCTION

DATE: 10/25/23



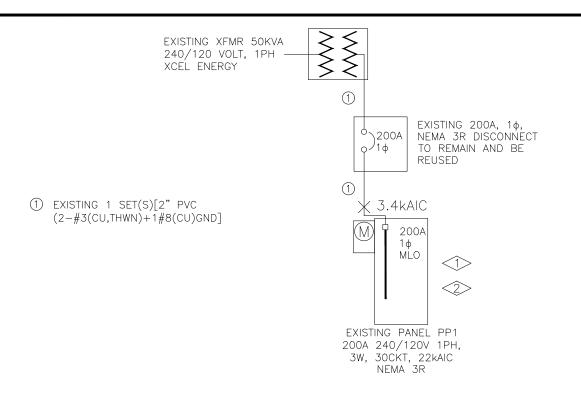




PUBLIC WORKS ENGINEERING DIVISION

HAWTHORNE PARK LIGHTING COMPOSITE UTILITY PLAN

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FLAG NOTES:

- 1> EXISTING PANEL PP1 TO REMAIN AND BE REUSED
- PROVIDE NEW BREAKERS AS SHOWN IN PANEL SCHEDULE DRAWING, TYPICAL. MATCH EXISTING BREAKER RATINGS.

EXISTING ONE-LINE DIAGRAM

GENERAL NOTES:

- I. IN AS MUCH AS DESIGN REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS CANNOT BE VERIFIED. FIELD COORDINATION DURING CONSTRUCTION SERVICES IS IMPERATIVE. CONTRACTORS BIDDING THIS WORK MUST MAKE REASONABLE ALLOWANCES FOR UNFORESEEN CONTINGENCIES.
- 2. THE SERVING ELECTRICAL ASSOCIATION SHALL ADVISE THE OWNER/ENGINEER PRIOR TO SERVICE MODIFICATION REQUIRING COST TO THE OWNER.
- 3. COORDINATE INSTALLATION WITH XCEL ENERGY PRIOR TO ROUGH-IN.
- 4. REFERENCE CIVIL, LANDSCAPE AND IRRIGATION DRAWING PLANS FOR COORDINATION AND LOCATION OF ALL UNDER GROUND SYSTEMS.
- 5. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES AS REQUIRED: REFERENCE CIVIL LANDSCAPE AND IRRIGATION DRAWINGS.
- 6. ALL WIRING IS SHOWN DIAGRAMMATICALLY ON DRAWINGS, FIELD VERIFY ALL CONDITIONS PRIOR TO ROUGH-IN.
- 7. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES.
- 8. CONDUCTOR COUNT IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL ENSURE THAT ANY AND ALL DEVICES AND EQUIPMENT ARE CIRCUITED PROPERLY. CONTRACTOR SHALL ENSURE THAT NO EQUIPMENT OR DEVICES ARE COMBINED OTHER THAN WHAT IS DEPICTED.
- 9. FIELD VERIFY ALL DIMENSIONS. DO NOT SCALE DRAWINGS.
- 10. COORDINATE INSTALLATION OF METER AND ELECTRICAL REQUIREMENTS WITH XCEL ENERGY.
- II. PEDESTAL MUST MEET ALL XCEL ENERGY REQUIREMENTS I.E. COLD SEQUENCE PADLOCK SLIP LATCH ON METER COVER, HOLD OPEN BAR ON METER HOOD.

PRELIMINARY
NOT FOR
CONSTRUCTION

DATE: 10/25/23





PUBLIC WORKS ENGINEERING DIVISION

PANEL: LOCATII FED FRI INCIDEN	JM: BUS-XFMRO	□C DEVICE DEVICE FAM 2.57 Cal/cm2 @18.00(in)	IILY: Plug		ENCLOSUR MOUNTING VOLTAGE: BOUNDARY		20	MAIN WIR	NS(A): MI ING: S		3-Wire B	DNTINUDUS(A); US SC RATING(A) AULT CURRENT(A);	225 22000 2077
DC AMPS P	NOTES	DESCRIPTION	DEMAND CDDE	VA CI	T PHASE	LOADS VA B C	CKT	VA	DEMAND CODE	DESCRIPTION	1	NOTES	DC AMPS P
20 1 20 1 20 1 40 2 20 1 20 1 20 1		LTG-AREA LTG-AREA EXHAUST FANS AIR HANDLER HTR """ FLUSH VALVES LTS-CONTROLLER LTS-POST SPRUCE	LTS LTS LTS GENERAL GENERAL LTS LTS	600 1 600 3 1200 5 3840 7 3840 9 300 1 600 1: 1200 1: 1 1: 2	1200	2807 4981 1500	2 4 6 8 10 12 14 16 18 20 22 24	2304 1344 1344 1200 1200 600	GENERAL GENERAL GENERAL REC GENERAL GENERAL	WTR HTR 1 WTR HTR 2 HAND DRYER HAND DRYER RCPT- PINE RCPT-SPRUCE IRR TIMER TIME CLOCK	2		30 1 30 1 25 1 25 1 20 1 20 1 20 1 20 1
		KVA 3P AVE AMPS 23. 08 55. 5 24. 13 58. 0 25. 44 61. 2	*	PHASE TI A-N B-N C-N	11	VA 688. 0 388. 0 0. 0	AMP 97. 94. 0.	4 9		ND 2	KVA 25. 54 26. 59 27. 90		

PANEL: LOCATIO FED FRO INCIDEN	M: BUS-XFMRO	DC DEVICE DEVICE FAM		In M	NCLOSURE: NEMA 1 OUNTING: Surface OLTAGE: 240/1; OUNDARY: 28, 73(in)	WI	INS(A): MLO RING: Single-Pho	CONTINUOUS(A): ase 3-Wire BUS SC RATING(FAULT CURRENT(>	
DC AMPS P	NDTES	DESCRIPTION	DEMAND CODE	VA CKT	PHASE LOADS VA A B C	CKT VA	DEMAND DESCRIPT	TION NOTES	DC AMPS P
20 1 20 1 20 1 40 2 20 1 20 1 20 1 20 2	$\langle 1 \rangle$	LTG- POLE NW LTG-POLE NE EXHAUST FANS AIR HANDLER HTR FLUSH VALVES LTS-CONTROLLER LTS-POST SPRUCE LTS POLE S	GENERAL LTS	546 1 468 3 1200 5 3840 7 3840 9 300 11 600 13 1200 15 507 17 507 19 21 23	2760 2693 2414 4981 5040 1500 1200 1800 1014	4 230 6 134 8 134 10 120 12 120 14 60 16 60	4 GENERAL WTR HTR 4 GENERAL WTR HTR 4 GENERAL HAND DRY 5 REC RCPT-PI 6 GENERAL IRR TIME 6 GENERAL TIME CLE 7 LTS LTS POLE	2 VER 1 VER 2 INE UUCE INE UUCE	30 1 30 1 25 1 25 1 20 1 20 1 20 1 20 2
ALL CON TOTAL C TOTAL D	CONNECTED DEMAND	KVA 3P AVE AMPS 24. 92 59. 9 26. 43 63. 6 28. 32 68. 1	* P * A * B * C	-N	ALS VA 12648. 0 12270. 0 0. 0	AMPS 105. 4 102. 3 0. 0	BUS TOTALS CONNECTED DEMAND DESIGN	KVA 27. 38 28. 89 30. 78	

EXISTING PANEL SCHEDULE DETAIL

NOT TO SCALE

NEW PANEL SCHEDULE DETAIL

NOT TO SCALE

FLAG NOTES:

- PROVIDE NEW 20 AMP 240V 1¢ 10kAIC BREAKERS TO MATCH EXISTING RATINGS, TYPICAL.
- PROVIDE NEW UPDATED PANEL SCHEDULE, TYPICAL

PRELIMINARY
NOT FOR
CONSTRUCTION

DATE: 10/25/23



REVISION \triangle PATH TO AVOID TREE DRIPLINE REVISION \triangle RE



PUBLIC WORKS
ENGINEERING DIVISION

HAWTHORNE PARK LIGHTING PANEL SCHEDULES PLAN

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