



The City of
WORCESTER

Administration & Finance – Purchasing Division
Christopher J. Gagliastro, MCPPO – Purchasing Director
455 Main Street, Room 201, Worcester, MA 01608
P | 508-799-1220
purchasing@worcesterma.gov

July 9, 2025

To All Bidders:

Subject: **Bid No. 8479-J6 – Great Brook Valley Park Improvements – Phase 1 / DPRC**

ADDENDUM NO. 1

To Whom It May Concern:

With reference to our bid request relative to the above subject, please refer to the changes/modifications/clarifications to the original proposal request.

General Bid Clarification:

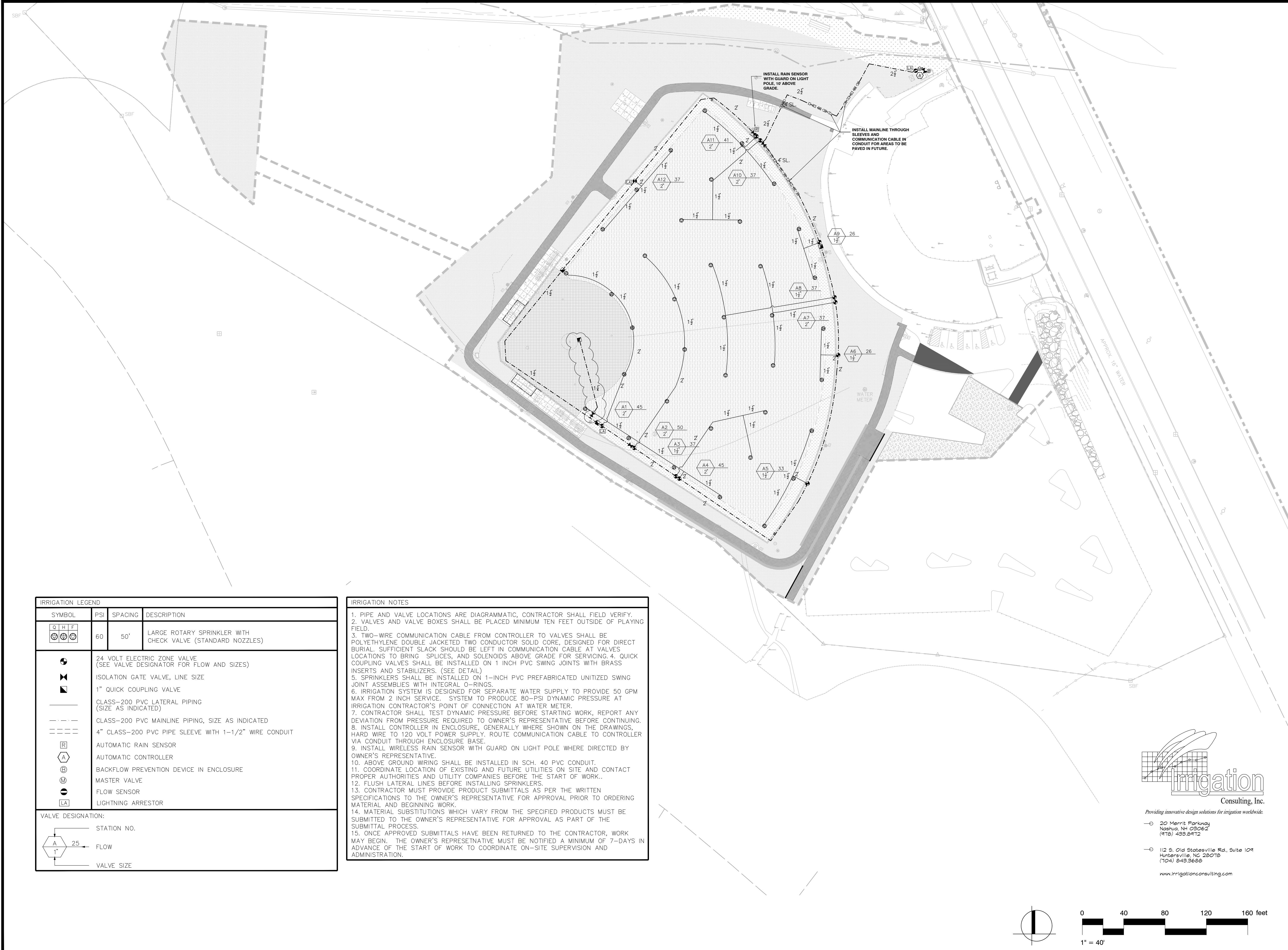
1. Please see the attached for additional drawings which were initially omitted (Irrigation & Electrical).







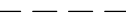






Bidders are requested to acknowledge and/or include this addendum with submission. All other terms, conditions and specifications remain unchanged.

Very truly yours,

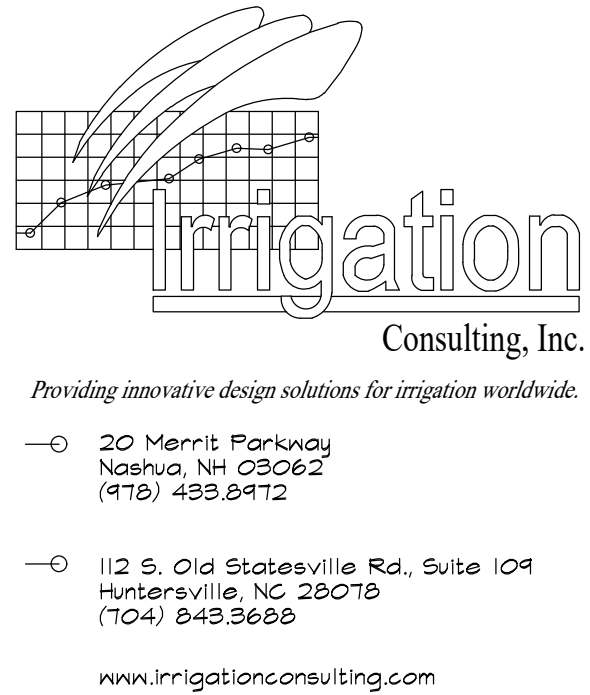
Jerry Kucera
Buyer

D:\Projects\weston&sampson\Great Brook Valley Park\Phase 1\07-adds bottle fill\Great Brook Valley Park\IR100.dwg



IRRIGATION LEGEND			
SYMBOL	PSI	SPACING	DESCRIPTION
<div><div>Q H F</div><div></div></div>	60	50'	LARGE ROTARY SPRINKLER WITH CHECK VALVE (STANDARD NOZZLES)
	24 VOLT ELECTRIC ZONE VALVE (SEE VALVE DESIGNATOR FOR FLOW AND SIZES)		
	ISOLATION GATE VALVE, LINE SIZE		
	1" QUICK COUPLING VALVE		
	CLASS-200 PVC LATERAL PIPING (SIZE AS INDICATED)		
	CLASS-200 PVC MAINLINE PIPING, SIZE AS INDICATED		
	4" CLASS-200 PVC PIPE SLEEVE WITH 1-1/2" WIRE CONDUIT		
	AUTOMATIC RAIN SENSOR		
	AUTOMATIC CONTROLLER		
	BACKFLOW PREVENTION DEVICE IN ENCLOSURE		
	MASTER VALVE		
	FLOW SENSOR		
	LIGHTNING ARRESTOR		
VALVE DESIGNATION:			
<div><div></div></div>			

- IRRIGATION NOTES
1. PIPE AND VALVE LOCATIONS ARE DIAGRAMMATIC, CONTRACTOR SHALL FIELD VERIFY.
 2. VALVES AND VALVE BOXES SHALL BE PLACED MINIMUM TEN FEET OUTSIDE OF PLAYING FIELD.
 3. TWO-WIRE COMMUNICATION CABLE FROM CONTROLLER TO VALVES SHALL BE POLYETHYLENE DOUBLE JACKETED TWO CONDUCTOR SOLID CORE, DESIGNED FOR DIRECT BURIAL. SUFFICIENT SLACK SHOULD BE LEFT IN COMMUNICATION CABLE AT VALVES LOCATIONS TO BRING SPLICES, AND SOLENOIDS ABOVE GRADE FOR SERVICING.
 4. QUICK COUPLING VALVES SHALL BE INSTALLED ON 1 INCH PVC SWING JOINTS WITH BRASS INSERTS AND STABILIZERS. (SEE DETAIL)
 5. SPRINKLERS SHALL BE INSTALLED ON 1-INCH PVC PREFABRICATED UNITIZED SWING JOINT ASSEMBLIES WITH INTEGRAL O-RINGS.
 6. IRRIGATION SYSTEM IS DESIGNED FOR SEPARATE WATER SUPPLY TO PROVIDE 50 GPM MAX FROM 2 INCH SERVICE. SYSTEM TO PRODUCE 80-PSI DYNAMIC PRESSURE AT IRRIGATION CONTRACTOR'S POINT OF CONNECTION AT WATER METER.
 7. CONTRACTOR SHALL TEST DYNAMIC PRESSURE BEFORE STARTING WORK, REPORT ANY DEVIATION FROM PRESSURE REQUIRED TO OWNER'S REPRESENTATIVE BEFORE CONTINUING.
 8. INSTALL CONTROLLER IN ENCLOSURE, GENERALLY WHERE SHOWN ON THE DRAWINGS, HARD WIRE TO 120 VOLT POWER SUPPLY. ROUTE COMMUNICATION CABLE TO CONTROLLER VIA CONDUIT THROUGH ENCLOSURE BASE.
 9. INSTALL WIRELESS RAIN SENSOR WITH GUARD ON LIGHT POLE WHERE DIRECTED BY OWNER'S REPRESENTATIVE.
 10. ABOVE GROUND WIRING SHALL BE INSTALLED IN SCH. 40 PVC CONDUIT.
 11. COORDINATE LOCATION OF EXISTING AND FUTURE UTILITIES ON SITE AND CONTACT PROPER AUTHORITIES AND UTILITY COMPANIES BEFORE THE START OF WORK..
 12. FLUSH LATERAL LINES BEFORE INSTALLING SPRINKLERS.
 13. CONTRACTOR MUST PROVIDE PRODUCT SUBMITTALS AS PER THE WRITTEN SPECIFICATIONS TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO ORDERING MATERIAL AND BEGINNING WORK.
 14. MATERIAL SUBSTITUTIONS WHICH VARY FROM THE SPECIFIED PRODUCTS MUST BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL AS PART OF THE SUBMITTAL PROCESS.
 15. ONCE APPROVED SUBMITTALS HAVE BEEN RETURNED TO THE CONTRACTOR, WORK MAY BEGIN. THE OWNER'S REPRESENTATIVE MUST BE NOTIFIED A MINIMUM OF 7-DAYS IN ADVANCE OF THE START OF WORK TO COORDINATE ON-SITE SUPERVISION AND ADMINISTRATION.



Project:
CITY OF WORCESTER
Dept. of Parks, Recreation & Cemetery



**GREAT BROOK VALLEY PARKS
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33 Northeast Cutoff, Worcester,
Massachusetts 01605

Weston & Sampson

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Consultants:

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**PHASE 1
CONSTRUCTION
DOCUMENT**

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Approved By: BEV

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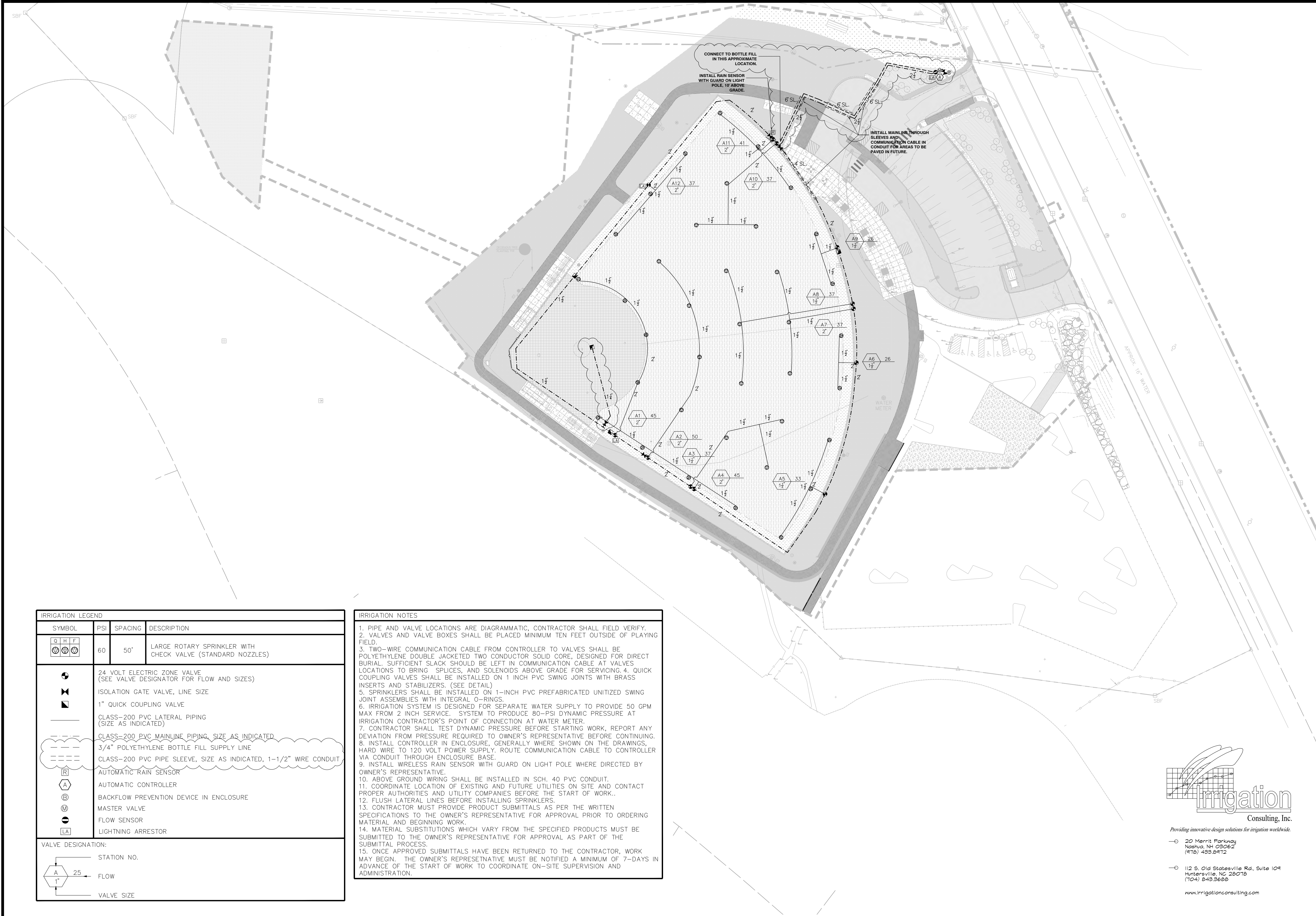
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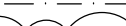








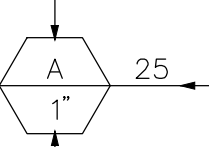
IRRIGATION PLAN

Sheet Number:

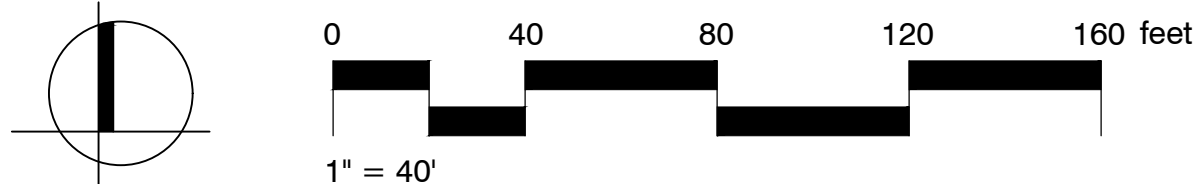
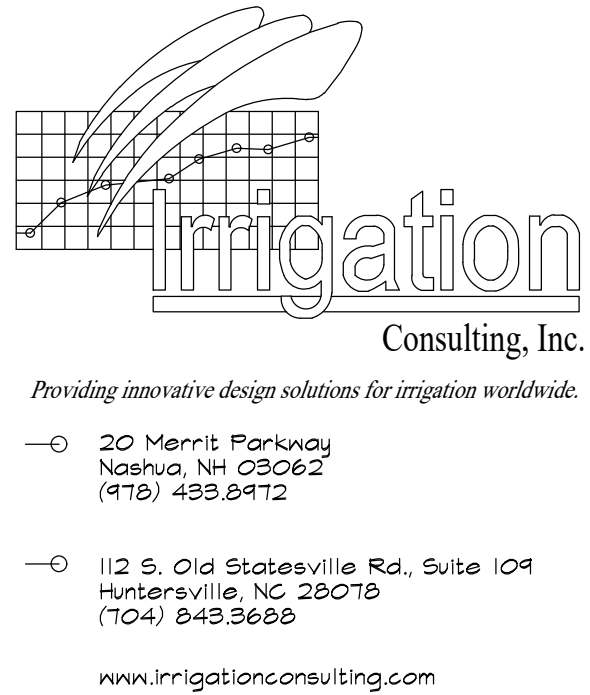
IR100

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IRRIGATION LEGEND			
SYMBOL	PSI	SPACING	DESCRIPTION
<div><div>Q</div><div>W</div><div>E</div><div>F</div></div> <div></div>	60	50'	LARGE ROTARY SPRINKLER WITH CHECK VALVE (STANDARD NOZZLES)
	24 VOLT ELECTRIC ZONE VALVE (SEE VALVE DESIGNATOR FOR FLOW AND SIZES)		
	ISOLATION GATE VALVE, LINE SIZE		
	1" QUICK COUPLING VALVE		
	CLASS-200 PVC LATERAL PIPING (SIZE AS INDICATED)		
	CLASS-200 PVC MAINLINE PIPING, SIZE AS INDICATED		
	3/4" POLYETHYLENE BOTTLE FILL SUPPLY LINE		
	CLASS-200 PVC PIPE SLEEVE, SIZE AS INDICATED, 1-1/2" WIRE CONDUIT		
	AUTOMATIC RAIN SENSOR		
	AUTOMATIC CONTROLLER		
	BACKFLOW PREVENTION DEVICE IN ENCLOSURE		
	MASTER VALVE		
	FLOW SENSOR		
	LIGHTNING ARRESTOR		
VALVE DESIGNATION:			
	STATION NO.		
	FLOW		
	VALVE SIZE		

- IRRIGATION NOTES
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**PHASE 1
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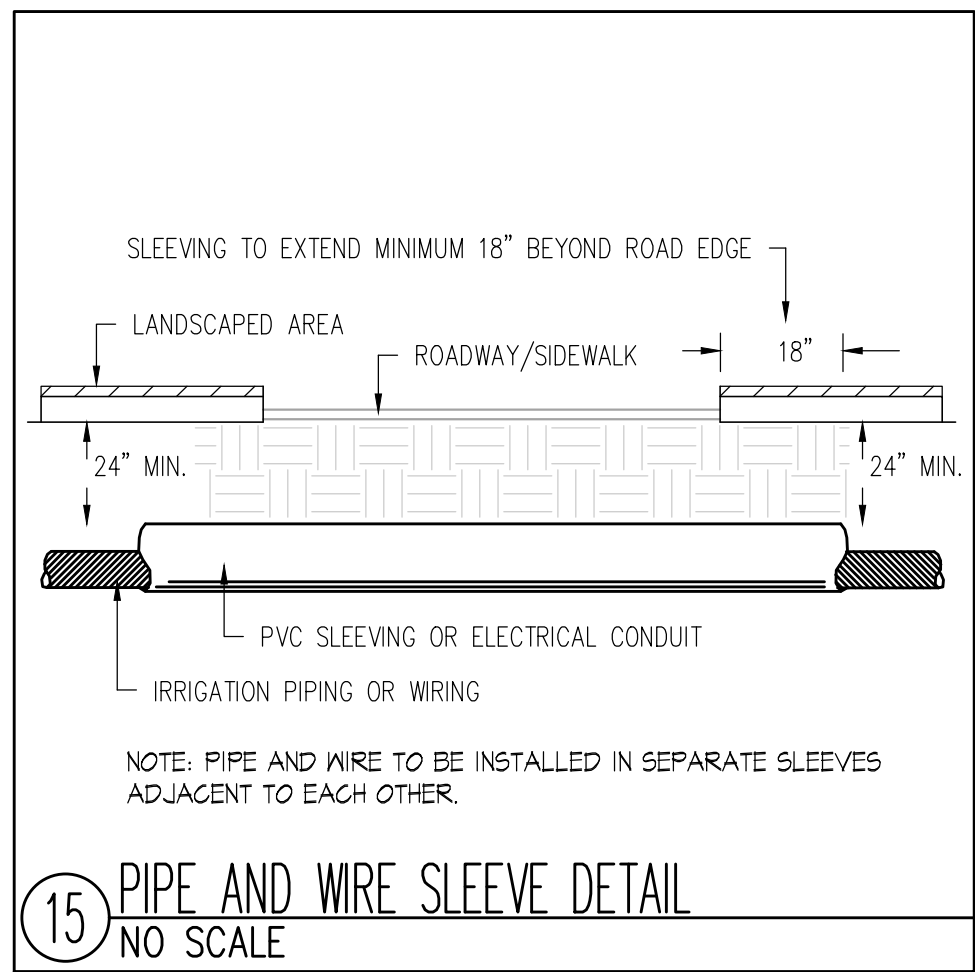
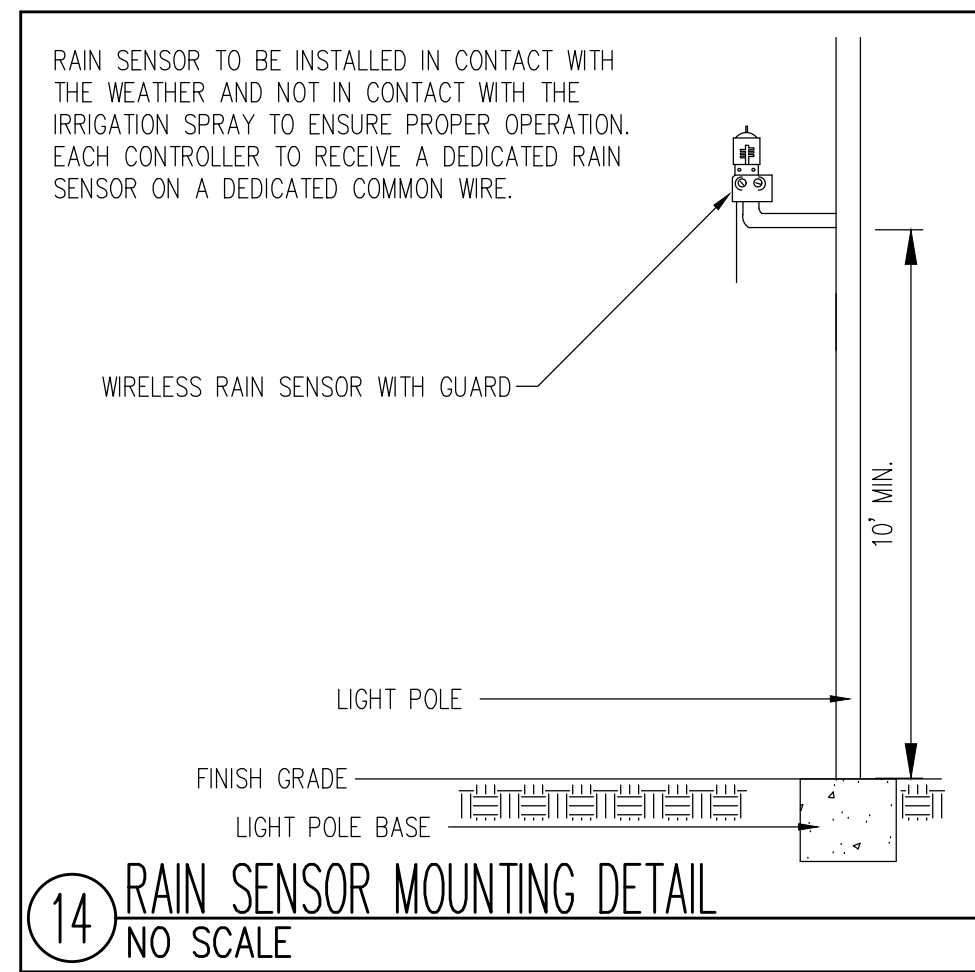
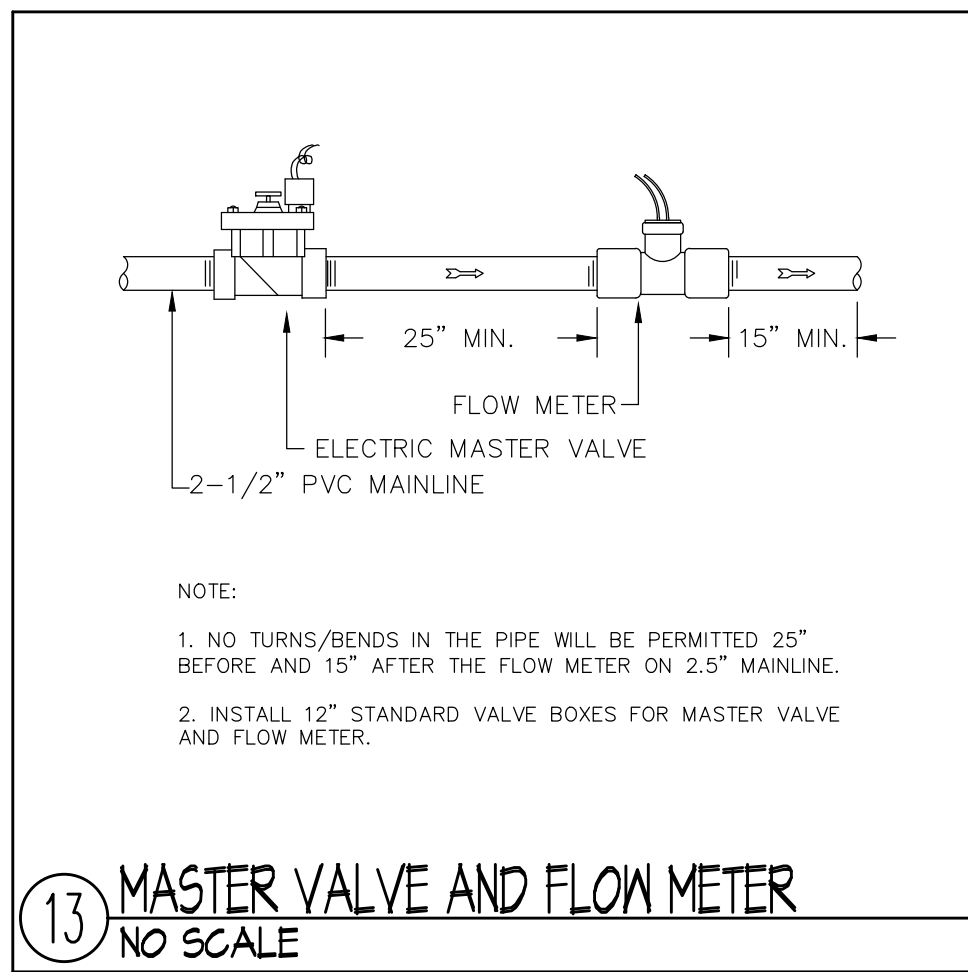
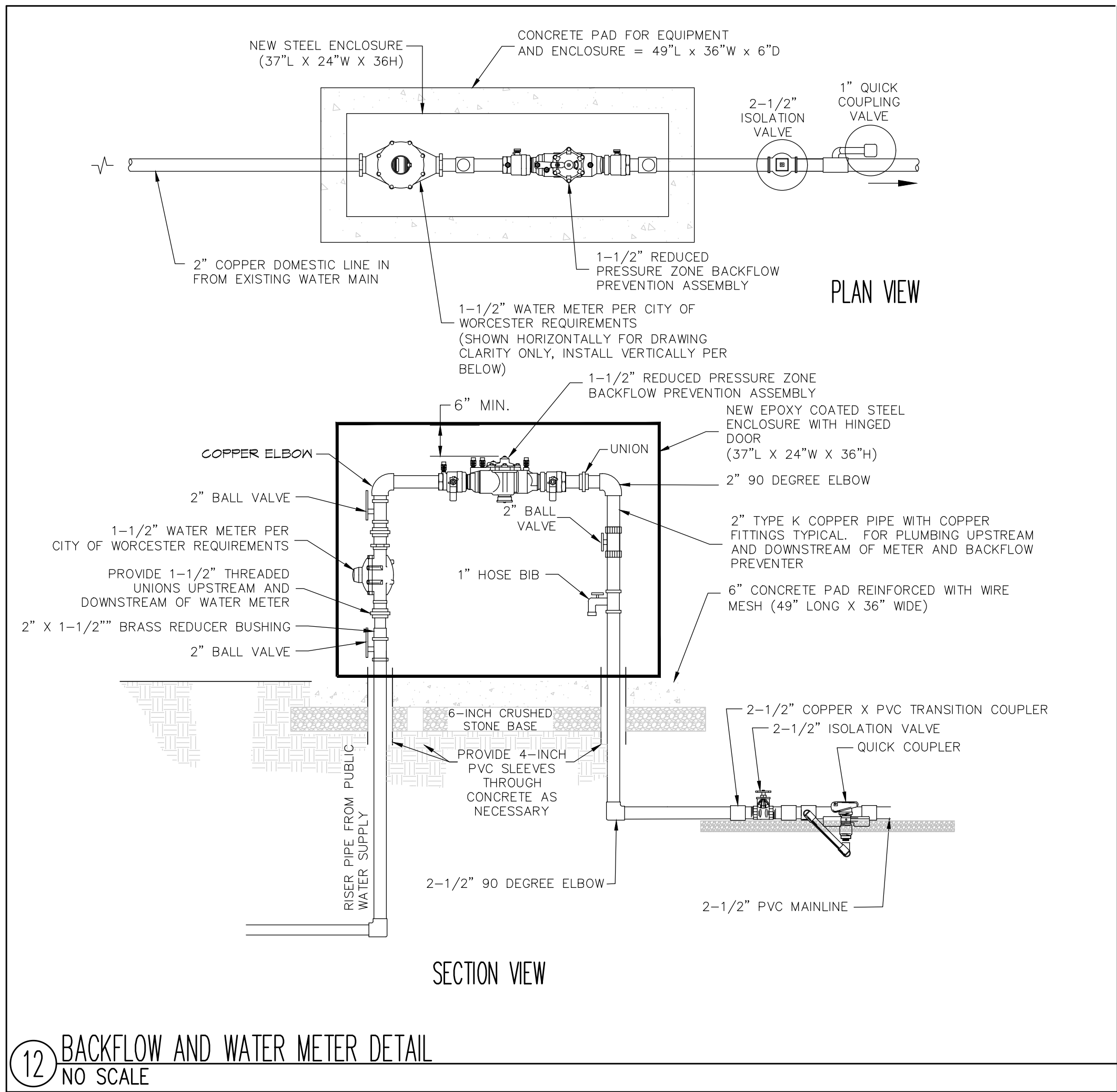
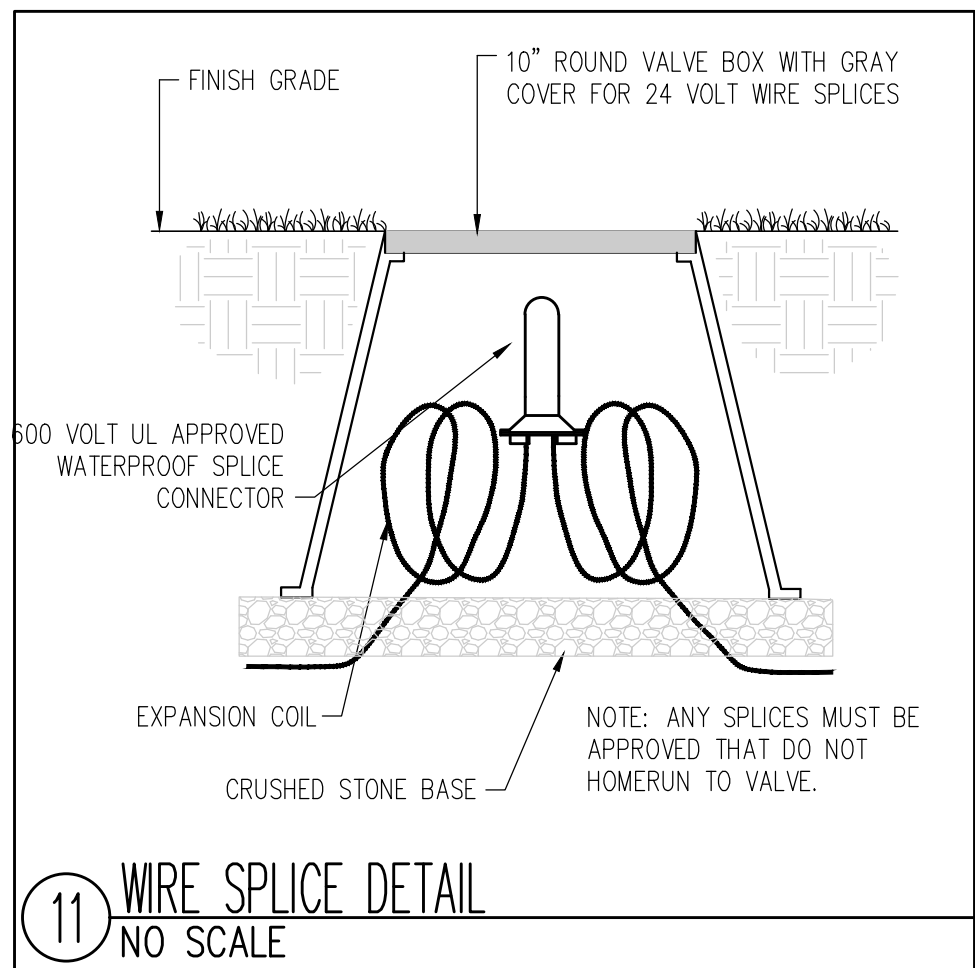
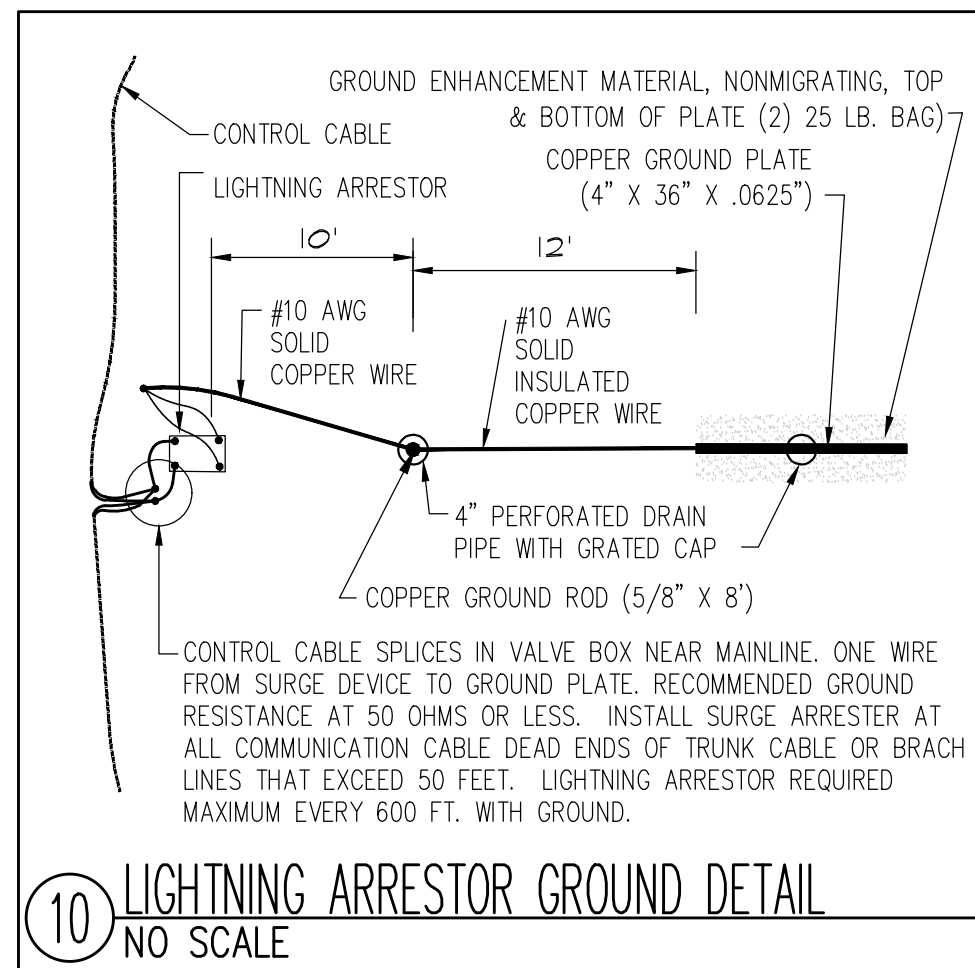
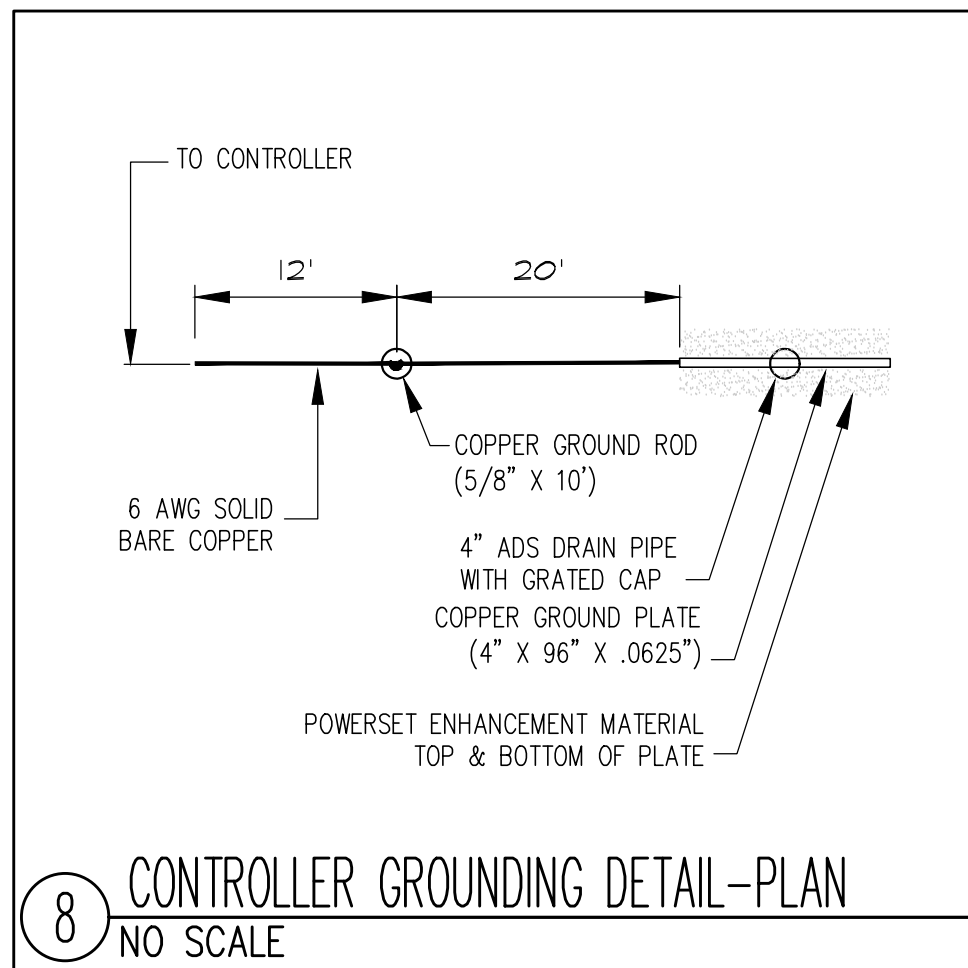
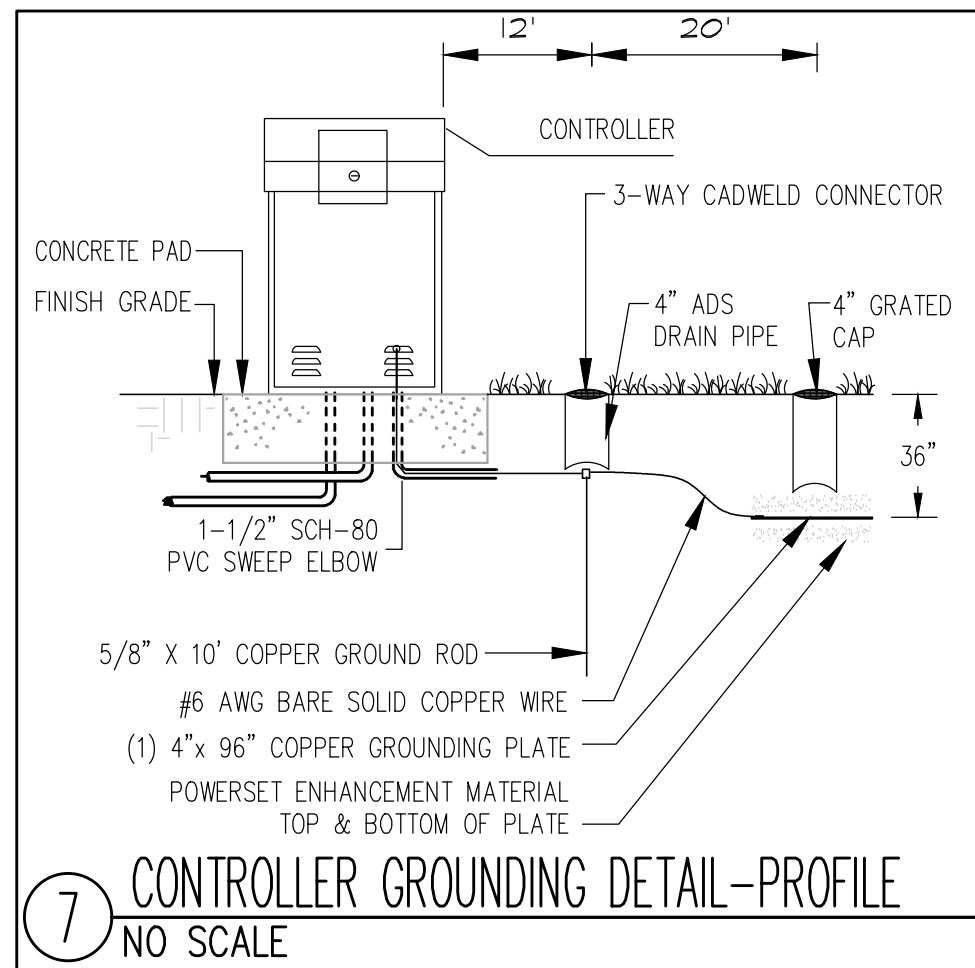
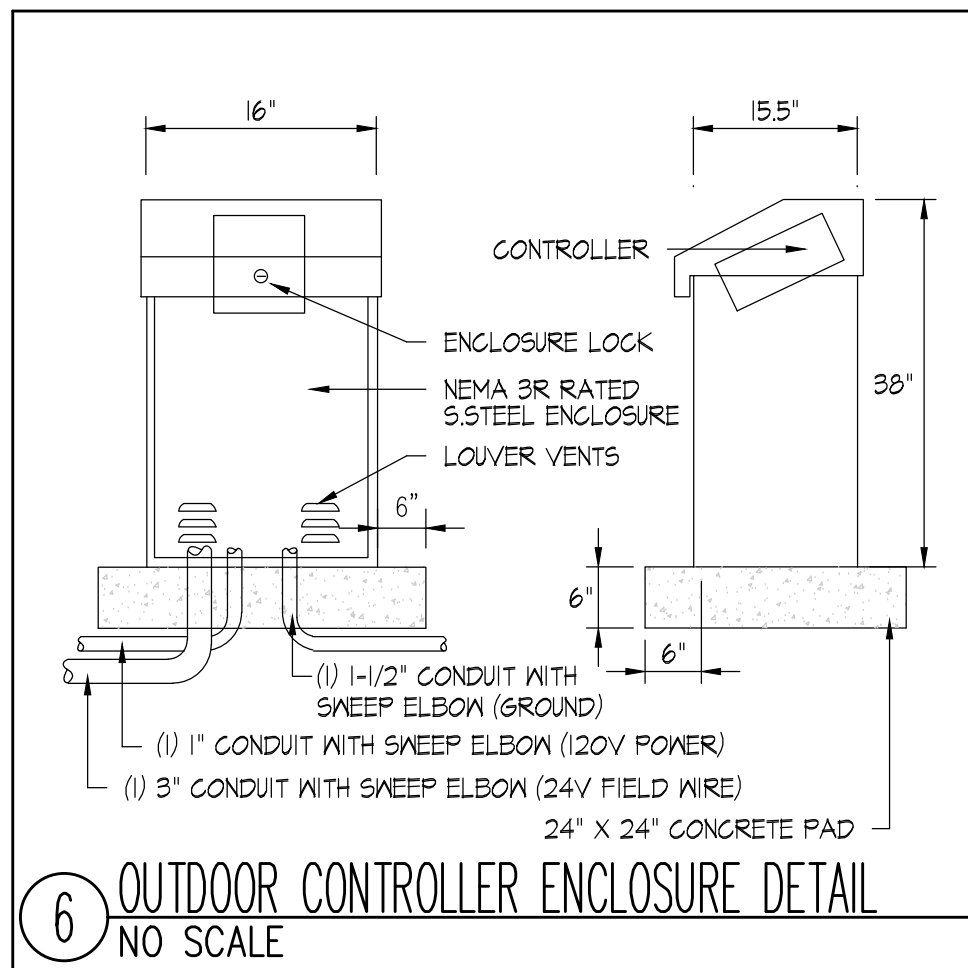
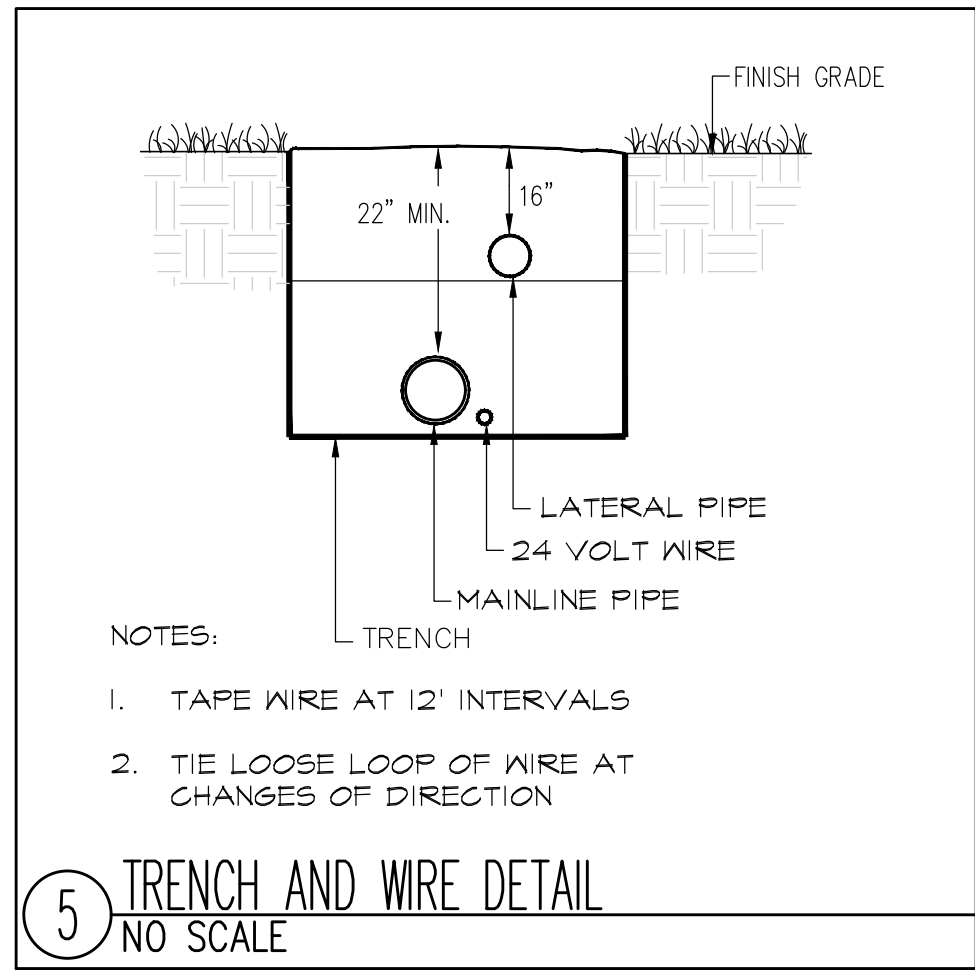
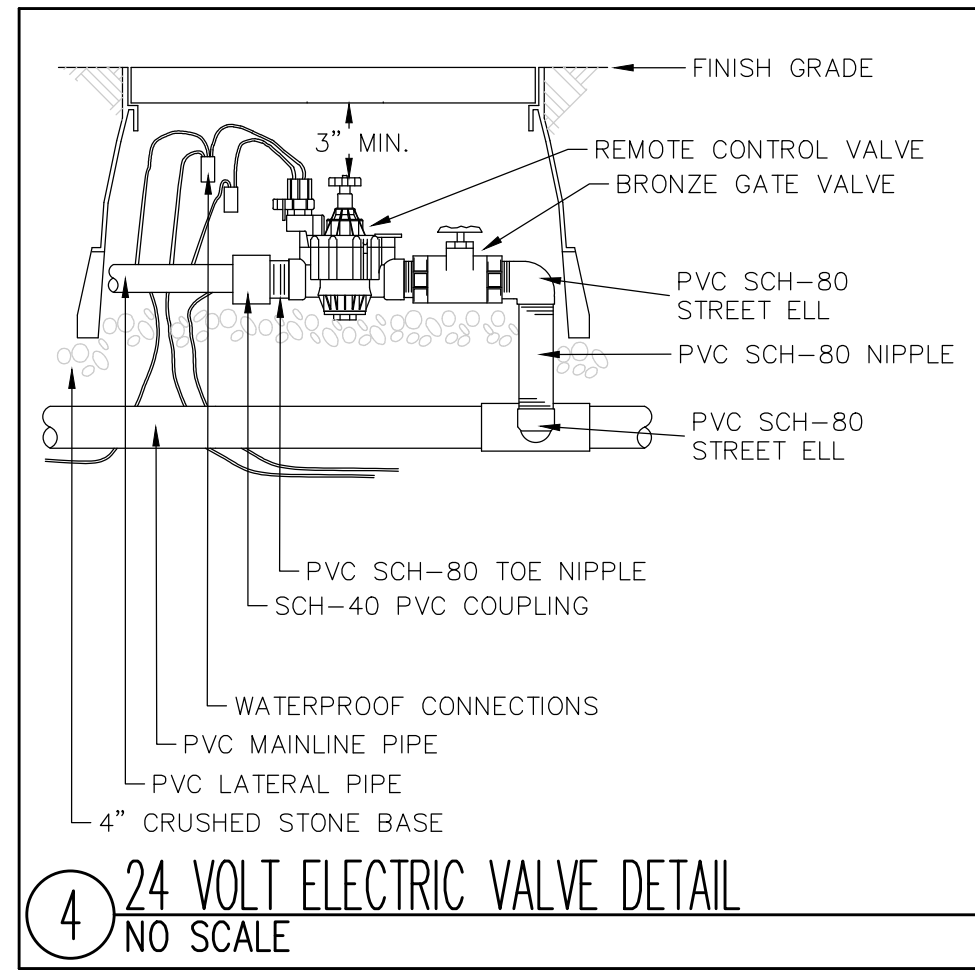
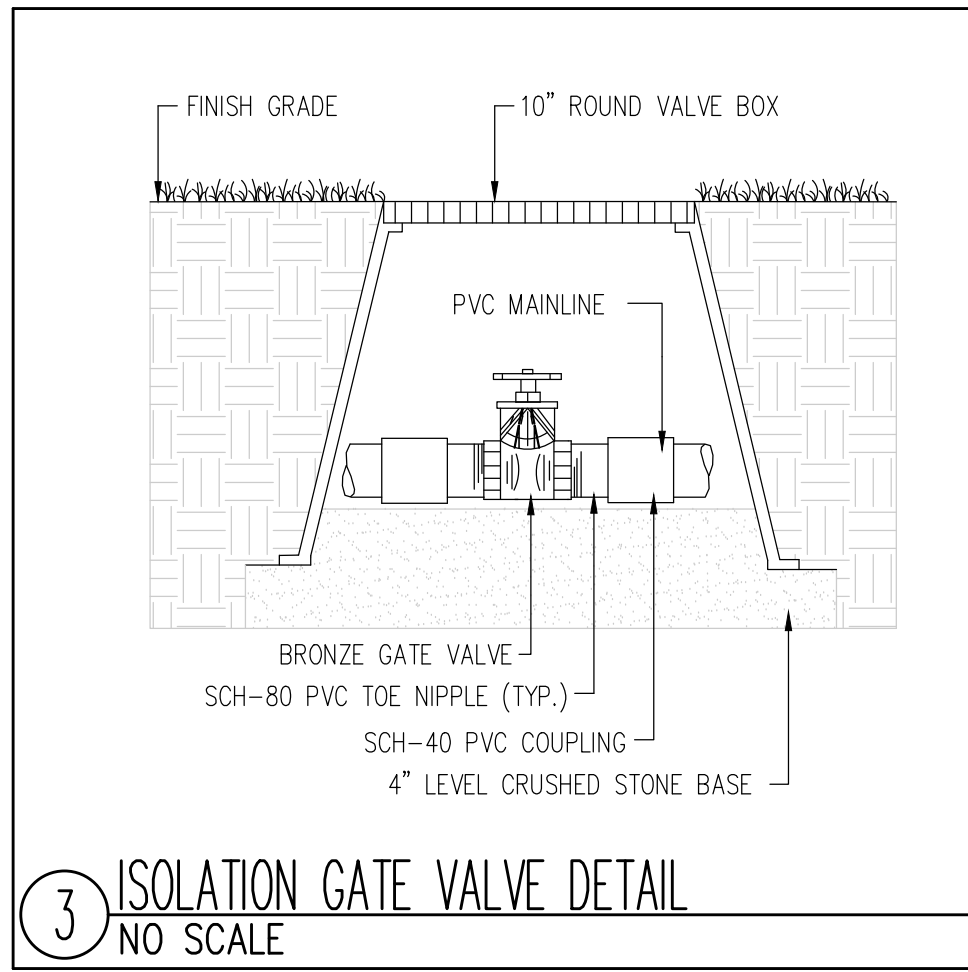
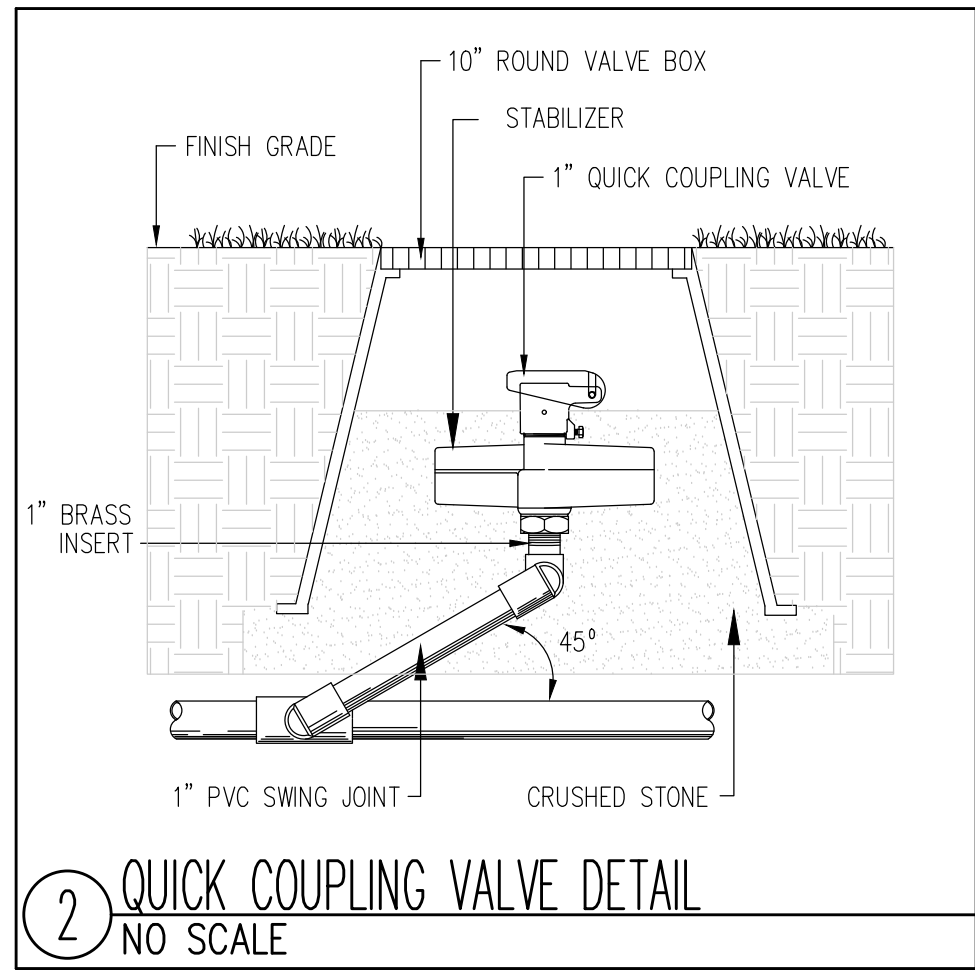
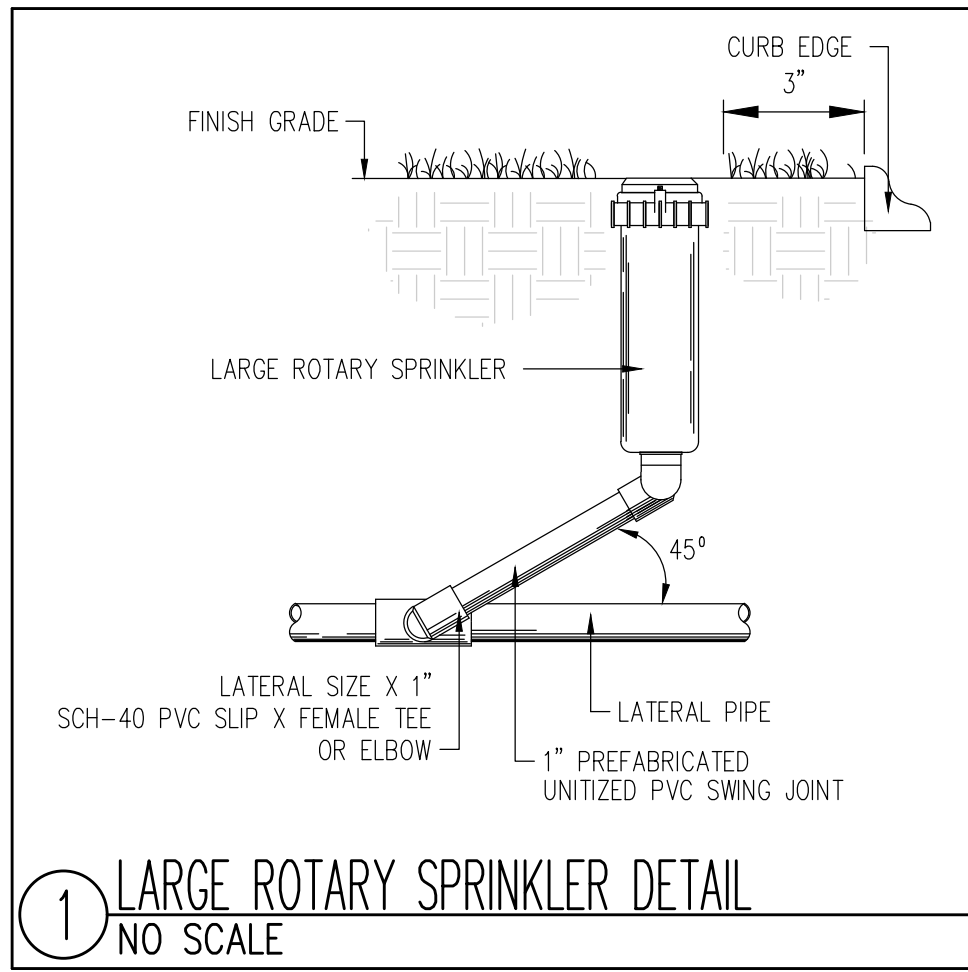
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Drawing Title:

**IRRIGATION PLAN -
BID ALT 1**

Sheet Number:

IR101

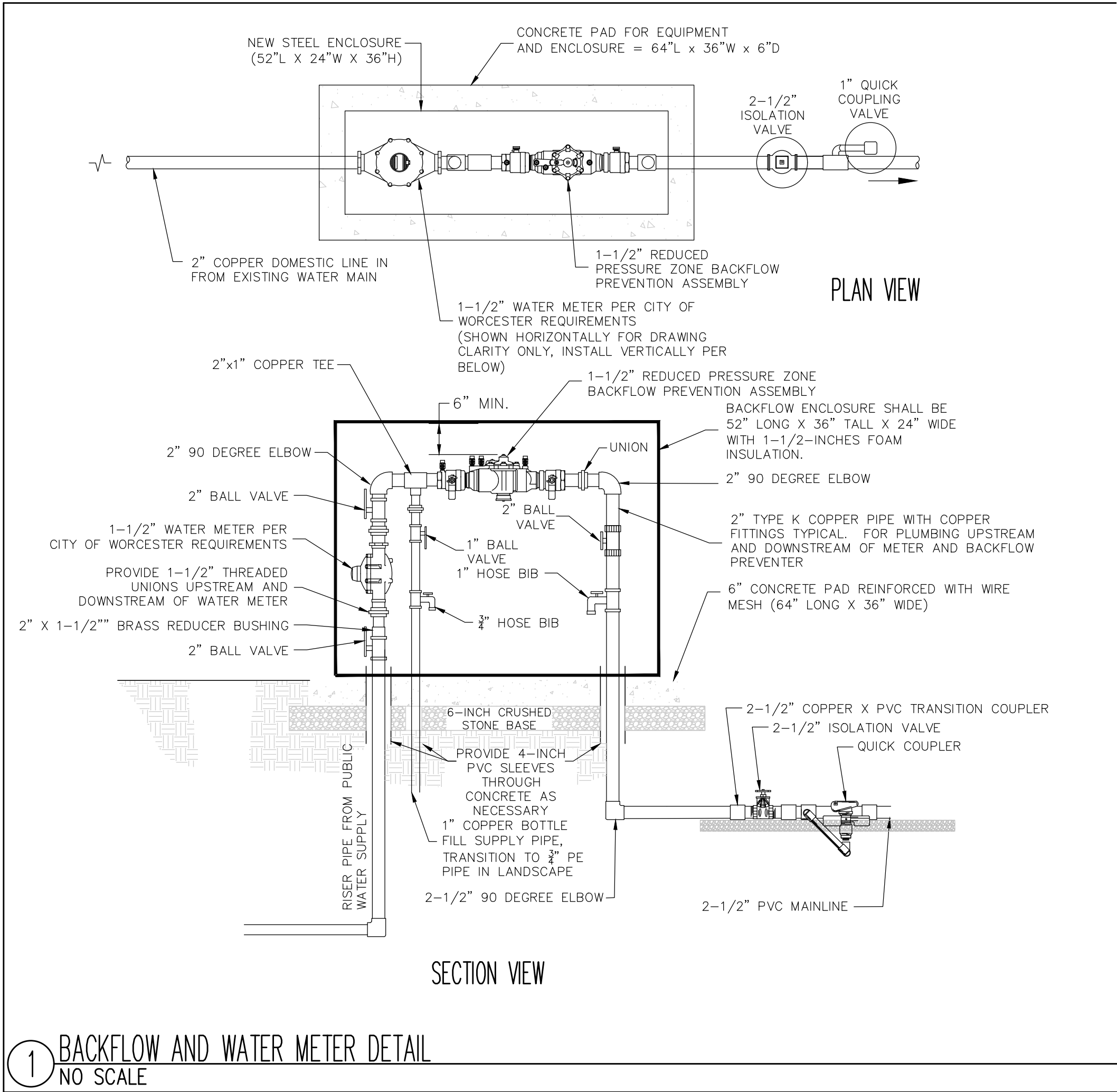


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Project:

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Dept. of Parks, Recreation & Cemetery



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Drawn By: JLW

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Drawing Title:

IRRIGATION DETAILS
BID-ALT 1

Sheet Number:








IR201


ELECTRICAL DEMOLITION NOTES	
1.	REFER TO THE CIVIL/LANDSCAPE DRAWINGS FOR THE EXTENT OF THE DEMOLITION SCOPE OF WORK AND AREA. THE DEMOLITION PLANS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL SCOPE MAY EXTEND BEYOND THE AREA DEFINED BY THE ARCHITECTURAL DEMOLITION LIMITS TO FULLY COMPLY WITH VARIOUS REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2.	THE ELECTRICAL DEMOLITION PLANS ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING THE DEMOLITION.
3.	PERFORM ELECTRICAL DEMOLITION WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN COOPERATION WITH THE OTHER TRADES AND AS SCHEDULED AND APPROVED BY THE OWNER'S REPRESENTATIVE. DISCONNECT AND MAKE SAFE ALL ELECTRICAL EQUIPMENT IDENTIFIED FOR REMOVAL ON THE ELECTRICAL, LANDSCAPE AND CIVIL PLANS.
4.	THE LOCATIONS OF EXISTING EQUIPMENT ARE SHOWN IN AN APPROXIMATE WAY ONLY. VISIT THE SITE PRIOR TO SUBMISSION OF THE BIDS AND COMMENCEMENT OF WORK TO BECOME FAMILIAR WITH THE ACTUAL CONDITIONS AND EXTENT OF THE WORK.
5.	CDE-ENERGIZE AND REMOVE ALL CONDUCTORS AND RACEWAYS TO THEIR POINTS OF ORIGIN WITHIN THE AREA OF DEMOLITION SCOPE.
6.	EXERCISE CARE WITH EQUIPMENT THAT IS TO BE RELOCATED OR TURNED OVER TO THE OWNER. EXAMINE THE EQUIPMENT BEFORE REMOVAL IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE TO DETERMINE ITS CONDITION. DELIVER OWNER-RETAINED EQUIPMENT TO AN ON-SITE LOCATION DESIGNATED BY THE OWNER AND OBTAIN ACKNOWLEDGMENT OF RECEIPT IN ORIGINAL CONDITION.
7.	ALL ITEMS REMOVED SHALL BE OFFERED TO THE OWNER FOR SALVAGE. IF THE OWNER DOES NOT TAKE POSSESSION, DISPOSE OF THE ITEMS IN A SAFE AND LEGAL MANNER. ALL ITEMS CLASSIFIED AS HAZARDOUS SHALL BE DISPOSED AS HAZARDOUS WASTES AND A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PROVIDED TO THE OWNER.
8.	NOTIFY UTILITY COMPANIES IN ACCORDANCE WITH THEIR REQUIREMENTS PRIOR TO DEMOLITION. VERIFY THAT THE UTILITIES HAVE BEEN DISCONNECTED, CAPPED AND MADE SAFE PRIOR TO DEMOLITION.
9.	ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT WINDBLOWN DUST.
10.	REMOVED HID LAMPS SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE.
11.	ALL BALLASTS IN LIGHTING FIXTURES TO BE DISPOSED SHALL BE VERIFIED TO BE PCB FREE. ALL BALLASTS MANUFACTURED PRIOR TO 1979 AND NOT LABELED AS PCB FREE SHALL BE CONSIDERED TO CONTAIN PCBs. PROVIDE WRITTEN VERIFICATION TO THE OWNER'S REPRESENTATIVE THAT CONFIRMS PCB FREE WASTE. WHERE PCB FREE WASTE CANNOT BE VERIFIED, BALLASTS SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE, WITH PCB COMPONENTS ELIMINATED BY A HIGH TEMPERATURE INCINERATION.

ELECTRICAL GENERAL NOTES:



1. REFER TO CIVIL/LANDSCAPE DRAWINGS FOR ASSOCIATED NOTES, DETAILS AND EXACT LOCATION OF ALL EQUIPMENT.
2. CIRCUIT NUMBERS DENOTE CIRCUITING INTENT. EXACT NUMBER DESIGNATIONS SHALL BE DETERMINED IN THE FIELD AND REFLECTED ON THE AS BUILT DRAWINGS. INTERCONNECTING BRANCH WIRING SHALL BE SIZED EQUAL TO THE HOMERUN UNLESS NOTED OTHERWISE.
3. VOLTAGE DROP HAS BEEN CONSIDERED IN THE DESIGN OF ALL BRANCH CIRCUITRY AND FEEDER SIZES BASED ON EQUIPMENT LAYOUTS AND SHORTEST CONDUCTOR/RACEWAY ROUTING. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEVIATIONS TAKEN THAT WILL INCREASE CONDUCTOR/RACEWAY LENGTHS. BRANCH CIRCUITS LONGER THAN 75' FOR 120V FROM PANEL TO LAST OUTLET SHALL BE INCREASED A MINIMUM OF ONE SIZE ABOVE THAT SPECIFIED TO LIMIT VOLTAGE DROP TO LESS THAN 3%. FEEDERS SHALL FOLLOW SIMILAR GUIDELINES AND BE LIMITED TO A 2% DROP.
4. ALL SPORTS LIGHTING AND SITE LIGHTING (WALKWAY, PARKING LOT, ETC) SHALL BE CONTROLLED VIA THE SPORTS LIGHTING CONTROLLER.

BRANCH CIRCUIT & FEEDER LEGEND

	BRANCH CIRCUIT OR FEEDER CONCEALED IN FINISHED AREAS
	BRANCH CIRCUIT OR FEEDER, CONCEALED IN OR UNDER FLOOR SLAB
	BRANCH CIRCUIT OR FEEDER TURNING UP TOWARDS OBSERVER
	BRANCH CIRCUIT OR FEEDER TURNING DOWN AWAY FROM OBSERVER
	CONDUIT STUBBED ABOVE CEILING
<p>BRANCH CIRCUIT HOME RUN TICKS INDICATE QUANTITY OF CONDUCTORS, GROUND CONDUCTORS ARE NOT INDICATED. NO TICKS INDICATES 2#12 & 1#12G IN 3/4" MINIMUM. R22A-1.3.5 INDICATES PANEL AND CIRCUIT DESIGNATION FROM WHICH HOMERUN SHALL ORIGINATE. EACH CIRCUIT SHALL BE 20A-1P (20AMP SINGLE POLE) UNLESS NOTED OTHERWISE.</p>	
	
	FLEXIBLE CONNECTION TO EQUIPMENT. RACEWAY AND CONDUCTOR RATING TO MATCH ASSOCIATED BRANCH CIRCUIT OR FEEDER

MOTOR & CONTROLS LEGEND	
<div>20AS TS4P</div> <div>  4X </div>	FUSED DISCONNECT SWITCH, 3-POLE, IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED.
	"4X" - INDICATES NEMA TYPE 4X ENCLOSURE
	"60AS" - INDICATES 60AMP SWITCH
	"50AF" - INDICATES 50AMP FUSES

SWITCH LEGEND	
S _a	SINGLE POLE SWITCH, RATED 20A, 120/277V "a" LOWER CASE LETTER INDICATES FIXTURE SWITCH CONTROL

EXISTING EQUIPMENT LEGEND	
XM	EXISTING EQUIPMENT TO REMAIN
X	EXISTING EQUIPMENT TO BE REMOVED
XR	EXISTING EQUIPMENT TO BE RELOCATED
XN	NEW LOCATION OF EXISTING RELOCATED EQUIPMENT
NR	EXISTING EQUIPMENT TO BE REMOVED AND NEW EQUIPMENT TO BE INSTALLED ON EXISTING BRANCH/FEEDER
	EXISTING EQUIPMENT FOR INFORMATION ONLY- INDICATED BY SYMBOL WITH LIGHT AND OUT OF FUNCTION LINE TYPE
	EXISTING EQUIPMENT TO BE REWORKED- INDICATED BY SYMBOL WITH DASHED AND IN FUNCTION LINE TYPE

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Revisions:		
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Drawn By: MVM		
Reviewed By: KEG		
Approved By: KEG		
W&S Project No: 24-0000416		
W&S File No:		

Drawing Title:	
ELECTRICAL LEGEND, SCHEDULES & NOTES	
Sheet Number:	
E000	

1. REFER TO DRAWING E000 FOR LEGEND, SYMBOLS AND GENERAL NOTES.

NOTES:

1 REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

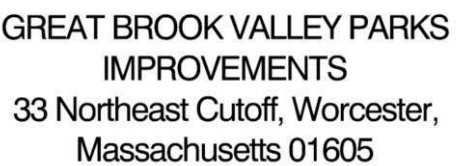
NOTES:

1. ALL CONDUIT SHALL BE DIRECT BURIED UNLESS OTHERWISE INDICATED. REFER TO DIRECT BURIED CONDUIT DETAIL ON DRAWING E300 FOR ADDITIONAL INFORMATION.
2. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO REINFORCEMENT REQUIRED UNDER PAVED AREAS INTENDED FOR VEHICULAR TRAFFIC.
3. ALL CONDUCTORS SHALL BE SUITABLE FOR WET LOCATIONS.
4. PROVIDE ALL EMPTY/SPARE CONDUIT WITH NYLON PULL STRING.
5. BRANCH CIRCUIT WIRING TO STAIR LIGHTING SYSTEM SHALL BE PROVIDED BY WHA.

NOTES:

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2. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO REINFORCEMENT REQUIRED UNDER PAVED AREAS INTENDED FOR VEHICULAR TRAFFIC.
3. ALL CONDUIT JOINTS SHALL BE SUITABLE FOR WEAT LOCATIONS.
4. PROVIDE ALL EMPLOY/SPARE CONDUIT WITH NYLON PULL STRING.
5. BRANCH CIRCUIT WIRING TO STAIR LIGHTING SYSTEM SHALL BE PROVIDED BY WHA.

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Date: MARCH 31, 2025

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W&S Project No: 24-0000416

W&S File No.

ELECTRICAL SITE PLAN

E100

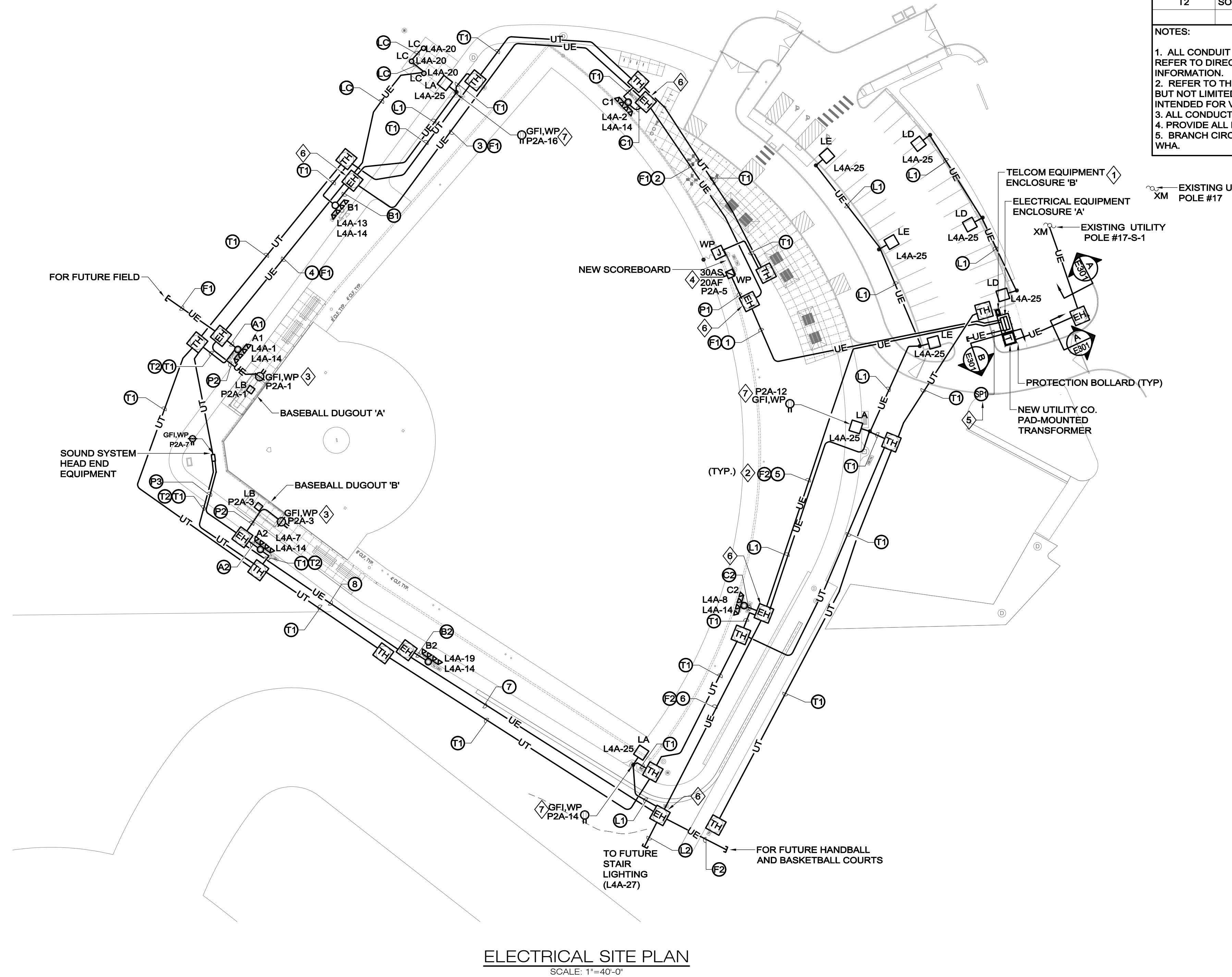
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W:\BLUES\Projects\2024\34-0000418 - Worcester Grand Brook Valley Park\2400 Drawings\CA\CA-0000418 E101 ELEC SITE PLAN - A00 ALTERNATE.dwg

NOTES:
1. REFER TO DRAWING E000 FOR LEGEND, SYMBOLS AND GENERAL NOTES.

KEYNOTES	
1	REFER TO DETAIL ON DRAWING E300 FOR ADDITIONAL INFORMATION. EXACT QUANTITY AND LOCATION OF BOLLARDS SHALL BE PROVIDED IN ACCORDANCE WITH NGRID REQUIREMENTS.
2	SEE DIRECT BURIED CONDUIT SCHEDULE FOR ADDITIONAL INFORMATION.
3	QUAD RECEPTACLE SHALL BE MOUNTED TO FENCE POST AT 18" AFG. PROVIDE CAST ALUMINIUM WORKBOX WITH RIGID STEEL CONDUIT FOR ALL ABOVE GRADE LOCATIONS. UTILIZE RIGID STEEL SWEEPS FOR TRANSITION FROM BELOW GRADE PVC SCHEDULE 40 CONDUIT.
4	PROVIDE LOCKABLE DISCONNECT SWITCH MOUNTED TO SCOREBOARD SUPPORT STRUCTURE. PROVIDE RIGID STEEL CONDUIT FOR ALL ABOVE GRADE LOCATIONS. UTILIZE RIGID STEEL SWEEPS FOR TRANSITION FROM BELOW GRADE PVC SCHEDULE 40 CONDUIT. UTILIZE LIQUID TIGHT FLEXIBLE CONDUIT FOR TERMINATION AT SCOREBOARD.
5	FOR FUTURE FIELDS. CONDUIT SHALL BE STUBBED OUT WITHIN 4'-0" OF EQUIPMENT ENCLOSURE AND AT 6" AFG WITHIN EQUIPMENT ENCLOSURE. CONDUIT SHALL BE CAPPED AT BOTH ENDS TO PREVENT RODENT INFILTRATION.
6	HANDHOLE DIMENSIONS SHALL BE 30"x30" MINIMUM
7	RECEPTACLE SHALL BE MOUNTED ADJACENT TO POLE BASE. PROVIDE RIGID STEEL CONDUIT/SWEEP FOR ABOVE GRADE INSTALLATION. RECEPTACLE SHALL BE MOUNTED IN CAST ALUMINIUM WORKBOX. PROVIDE LOCKABLE CAST ALUMINIUM WEATHERPROOF COVER.
NOTES: 1 REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.	



ELECTRICAL SITE PLAN
SCALE: 1"=40'-0"

DIRECT BURIED CONDUIT SCHEDULE			
TAG	DESCRIPTION	CONDUIT	CONDUCTORS
A1	SPORTS A1(BASEBALL)	1"	3#10+10G
A2	SPORTS A1 (SECURITY)	1"	3#10+10G
B1	SPORTS A2 (BASEBALL)	1"	3#10+10G
B2	SPORTS A2 (SECURITY)	1"	3#10+10G
C1	SPORTS B1 (BASEBALL)	1"	3#10+10G
C2	SPORTS B1 (SECURITY)	1"	3#10+10G
F1	SPORTS B2 (BASEBALL)	1"	3#10+10G
F2	SPORTS B2 (SECURITY)	1"	3#10+10G
L1	SPORTS C1 (BASEBALL)	1"	3#10+10G
L2	SPORTS C1 (SECURITY)	1"	3#10+10G
LC	SPORTS C2 (BASEBALL)	1"	3#10+10G
LC	SPORTS C2 (SECURITY)	1"	3#10+10G
P1	FUTURE SOCCER FIELD	(2)-4"C	NOTE 4
P2	FUTURE HANDBALL/BASKETBALL	(2)-4"C	NOTE 4
L1	PEDESTRIAN LIGHTING	1"	2#10+10G
L2	PEDESTRIAN LIGHTING RECEPTACLE	1"	2#10+10G
L2	STAIR LIGHTING	2"	NOTE 4,5
LC	FLAGPOLE LIGHTING	1"	2#10+10G
P1	SCOREBOARD	1"	2#10+10G
P2	DUGOUT QUAD RECEPTACLE	1"	2#10+10G
P3	SOUND SYSTEM	1"	
SP1	SPARE(FUTURE FIELDS)	(6)-4"C	NOTE 4
T1	TELECOM	2"	NOTE 4
T2	SOUND SYSTEM	2"	NOTE 4


NOTES:
1. ALL CONDUIT SHALL BE DIRECT BURIED UNLESS OTHERWISE INDICATED. REFER TO DIRECT BURIED CONDUIT DETAIL ON DRAWING E300 FOR ADDITIONAL INFORMATION.
2. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO REINFORCEMENT REQUIRED UNDER PAVED AREAS INTENDED FOR VEHICULAR TRAFFIC.
3. ALL CONDUCTORS SHALL BE SUITABLE FOR WET LOCATIONS.
4. PROVIDE ALL EMPTY/SPARE CONDUIT WITH NYLON PULL STRING.
5. BRANCH CIRCUIT WIRING TO STAIR LIGHTING SYSTEM SHALL BE PROVIDED BY WHA.

DIRECT BURIED CONDUIT SCHEDULE			
TAG	DESCRIPTION	CONDUIT	CONDUCTORS
1	SCOREBOARD	1"	2#10+10G
	SPORTS C1		3#10+10G
	SPORTS C1 SECURITY		3#10+10G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	FLAGPOLE LIGHTING		2#8+8G
	SPORTS C1		3#10+10G
	SPORTS C1 SECURITY		3#10+10G
	SPORTS B1		3#8+8G
	SPORTS B1 SECURITY		3#10+10G
2	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	SPORTS A1		3#10+10G
	SPORTS A1 SECURITY		3#10+10G
	DUGOUT A QUAD RECEPTACLE		2#1+1G
	SPORTS C1		3#10+10G
	SPORTS C1 SECURITY		3#10+10G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	FLAGPOLE LIGHTING		2#8+8G
3	SPORTS B1		3#8+8G
	SPORTS B1 SECURITY		3#10+10G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	SPORTS A1		3#10+10G
	SPORTS A1 SECURITY		3#10+10G
	DUGOUT A QUAD RECEPTACLE		2#1+1G
	PEDESTRIAN LIGHTING RECPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	FLAGPOLE LIGHTING		2#8+8G
4	SPORTS B1		3#8+8G
	SPORTS B1 SECURITY		3#10+10G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	SPORTS A1		3#10+10G
	SPORTS A1 SECURITY		3#10+10G
	DUGOUT A QUAD RECEPTACLE		2#1+1G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	FLAGPOLE LIGHTING		2#8+8G
5	SPORTS B1		3#8+8G
	SPORTS B1 SECURITY		3#10+10G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	SPORTS A1		3#10+10G
	SPORTS A1 SECURITY		3#10+10G
	DUGOUT A QUAD RECEPTACLE		2#1+1G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	FLAGPOLE LIGHTING		2#8+8G
6	SPORTS B1		3#8+8G
	SPORTS B1 SECURITY		3#10+10G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	SPORTS A1		3#10+10G
	SPORTS A1 SECURITY		3#10+10G
	DUGOUT A QUAD RECEPTACLE		2#1+1G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	FLAGPOLE LIGHTING		2#8+8G
7	SPORTS B1		3#8+8G
	SPORTS B1 SECURITY		3#10+10G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	SPORTS A1		3#10+10G
	SPORTS A1 SECURITY		3#10+10G
	DUGOUT A QUAD RECEPTACLE		2#1+1G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	FLAGPOLE LIGHTING		2#8+8G
8	SPORTS B1		3#8+8G
	SPORTS B1 SECURITY		3#10+10G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	SPORTS A1		3#10+10G
	SPORTS A1 SECURITY		3#10+10G
	DUGOUT A QUAD RECEPTACLE		2#1+1G
	PEDESTRIAN LIGHTING RECEPT	4"	2#1+1G
	PEDESTRIAN LIGHTING		2#10+10G
	FLAGPOLE LIGHTING		2#8+8G

NOTES:
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4. PROVIDE ALL EMPTY/SPARE CONDUIT WITH NYLON PULL STRING.
5. BRANCH CIRCUIT WIRING TO STAIR LIGHTING SYSTEM SHALL BE PROVIDED BY WHA.

Project:

CITY OF WORCESTER
Dept. of Parks, Recreation & Cemetery




GREAT BROOK VALLEY PARKS
IMPROVEMENTS
33 Northeast Cutoff, Worcester,
Massachusetts 01605

Weston & Sampson

427 Main St, Suite 400,
Worcester, MA 01608
508.762.1676 800.SAMPSON
www.westonandsampson.com

Consultants:



200 Brimstone Square,
Andover, MA 01810-1488
T: 978-296-6200
F: 978-296-6201
www.nv5.com

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Drawn By: MVM

Reviewed By: KEG

Approved By: KEG

W&S Project No: 24-0000416

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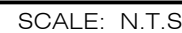
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**ELECTRICAL
SITE PLAN
BID ALT 1**

Sheet Number:

E101

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- Consultants:**

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PHASE 1 BID DOCUMENTS

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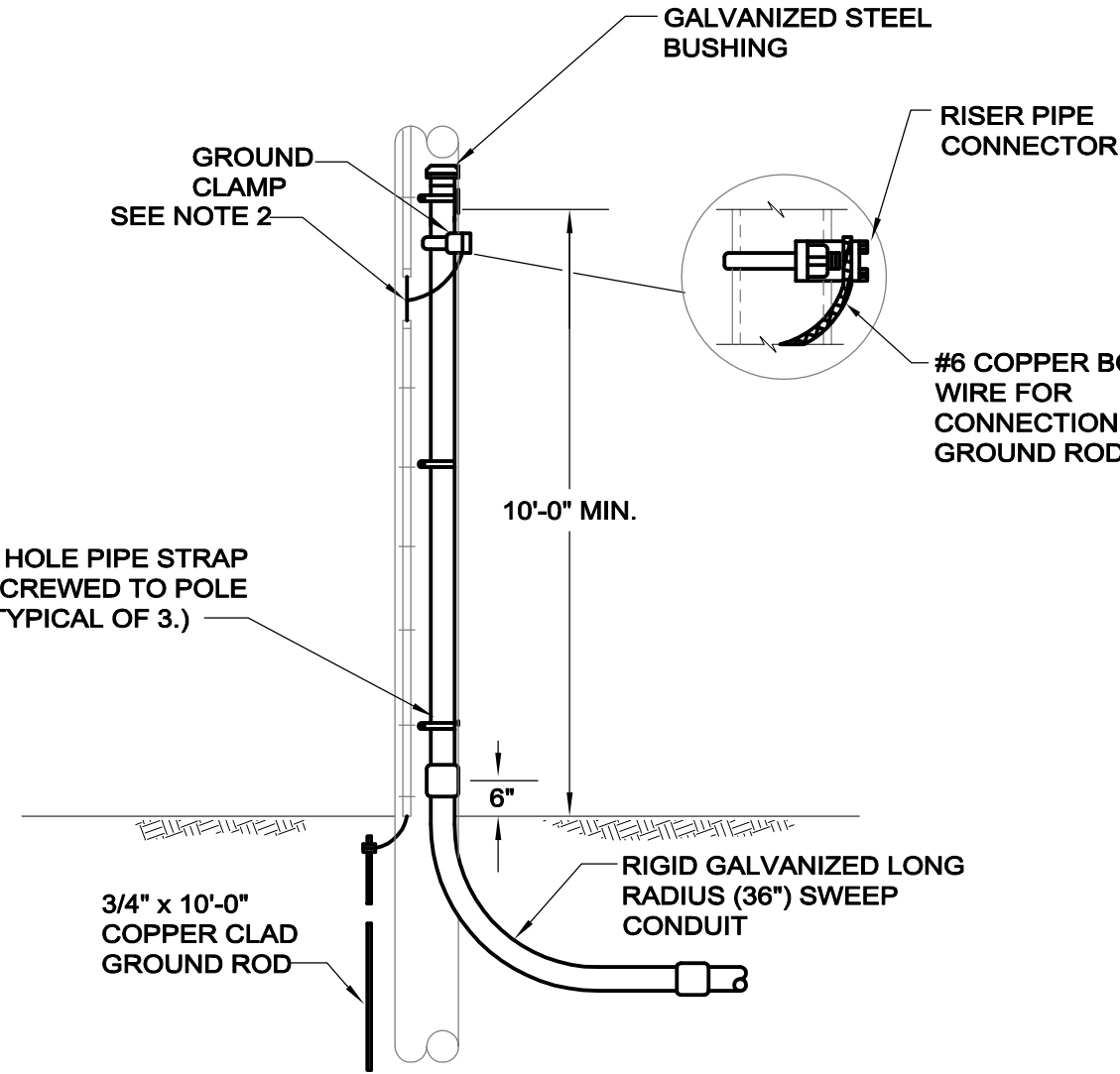
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ELECTRICAL ONE-LINE DIAGRAM & DETAILS

Sheet Number:

E200

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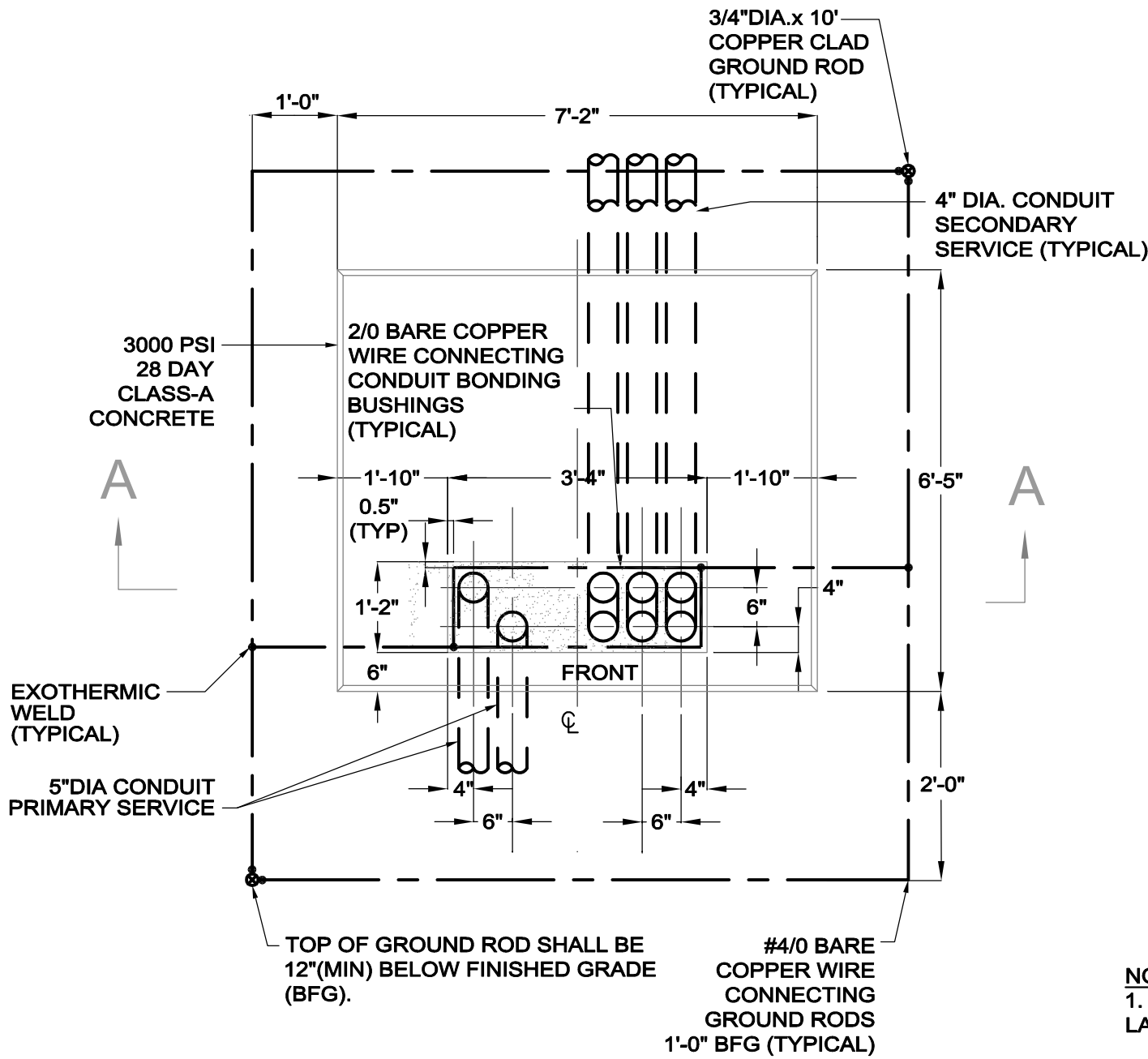


- NOTES:
1. RISER PIPES SHALL BE LOCATED ON A STREET QUARTER OF POLE & WHEN POSSIBLE ON THE QUARTER AWAY FROM APPROACHING TRAFFIC.
 2. GROUND METAL RISER PIPE TO ARRESTER GROUND LEAD WHERE AVAILABLE. PROVIDE AND INSTALL A #6 BARE COPPER GROUND WIRE AND MOLDING EXTENDING TO TOP OF STEEL PIPE.
 3. GROUND CABLE CONNECTIONS SHALL BE EXOTHERMIC WELD.
 4. CAP SPARE RACEWAYS 6" AFG FOR FUTURE USE.

NV5

POLE RISER DETAIL

E501

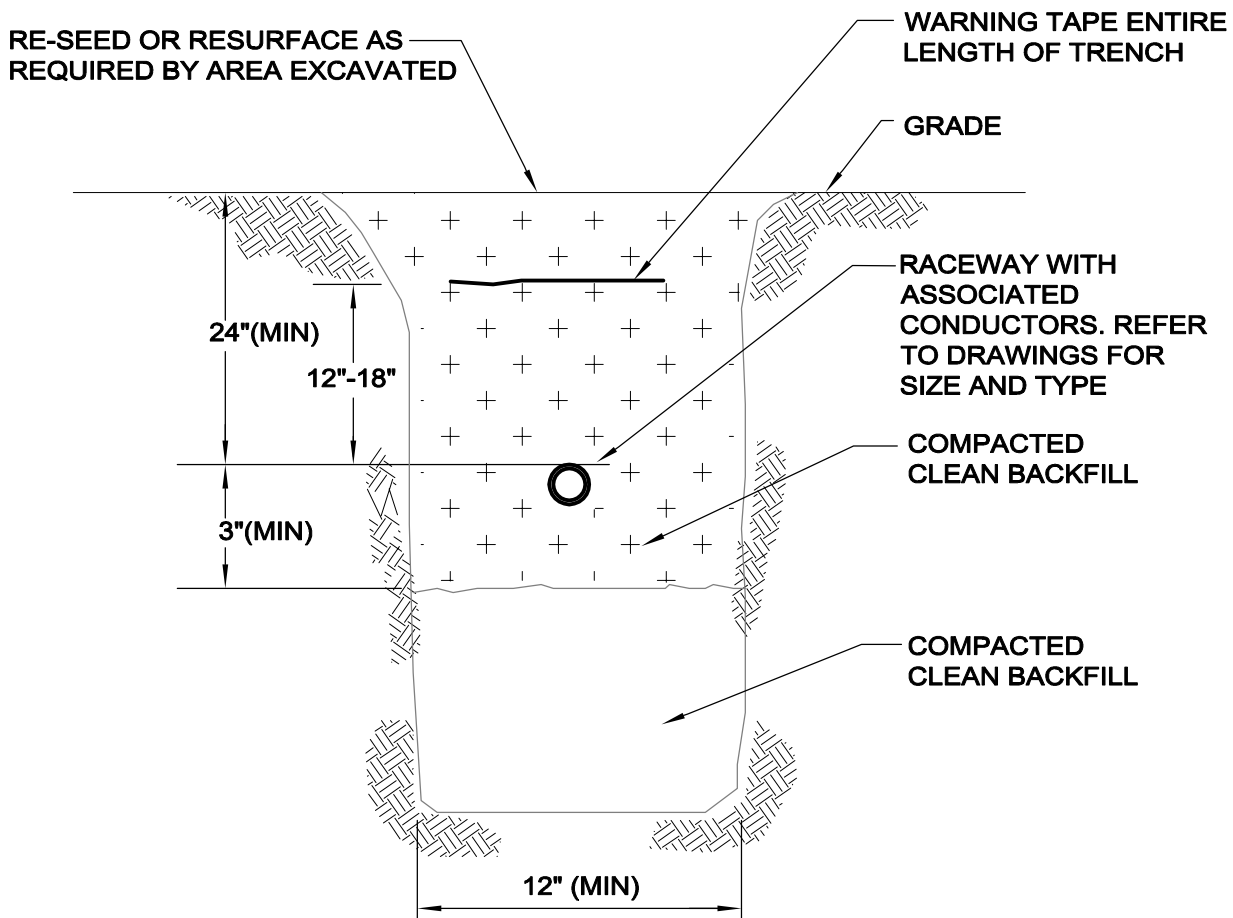


- NOTES:
1. REFER TO EXACT UTILITY COMPANY REQUIREMENTS FOR MODIFICATIONS THAT MAY BE REQUIRED TO THIS PAD LAYOUT.
 2. ALL GROUND GRID CONNECTIONS SHALL BE EXOTHERMIC WELD.
 3. DO NOT ALLOW PRIMARY AND SECONDARY CONDUITS TO CROSS EACH OTHER INSIDE OR OUTSIDE THE PAD. LOCATE SECONDARY CONDUITS AS FAR TO THE RIGHT AS POSSIBLE IN THE PAD OPENING.
 4. ALL QUARTER BENDS (PRIMARY AND SECONDARY) SHALL BE GALVANIZED STEEL SCHEDULE 40 WITH GROUNDING BUSHINGS. CAP ALL CONDUIT ENDS TO PREVENT MOISTURE AND DEBRIS FROM ENTERING CONDUITS PRIOR TO TRANSFORMER INSTALLATION.

NV5

TRANSFORMER PAD DETAIL
THREE PHASE 112.5 THRU 750 KVA

E508

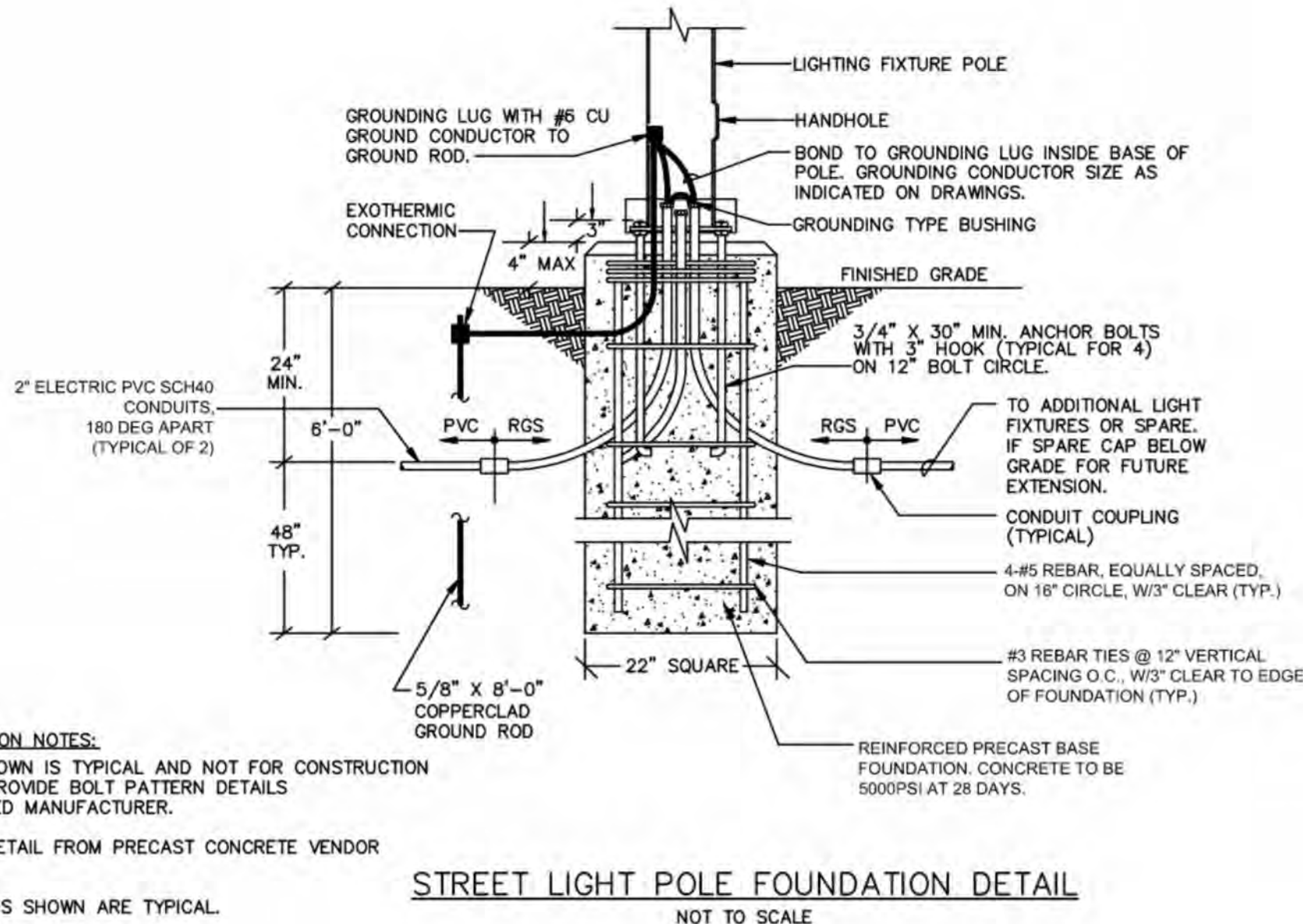


- NOTES:
1. THIS DETAIL IS INTENDED TO ILLUSTRATE REQUIREMENTS WHICH EXCEED THOSE REQUIRED BY NEC TABLE 300-5.
 2. WARNING TAPE SHALL BE DETECTABLE TYPE FOIL BACKED 4MIL POLYETHYLENE WITH FADE RESISTANT "BURIED ELECTRIC LINE BELOW" A MINIMUM OF 18 INCHES ABOVE THE BURIED SERVICE. TAPE SHALL BE EQUAL TO T&B NAF-0708.
 3. ALL ROADWAY CROSSING SHALL BE ENCASED WITH A MINIMUM OF 2 INCHES OF CONCRETE (TOP BOTTOM AND SIDES) EXTENDING A MINIMUM OF 2 FEET BEYOND EACH SIDE OF CROSSING.
 4. ALL CONDUIT RISERS SHALL UTILIZE LONG RADIUS GALVANIZED RIGID STEEL SWEEPS.

NV5

BURIED CONDUIT DETAIL

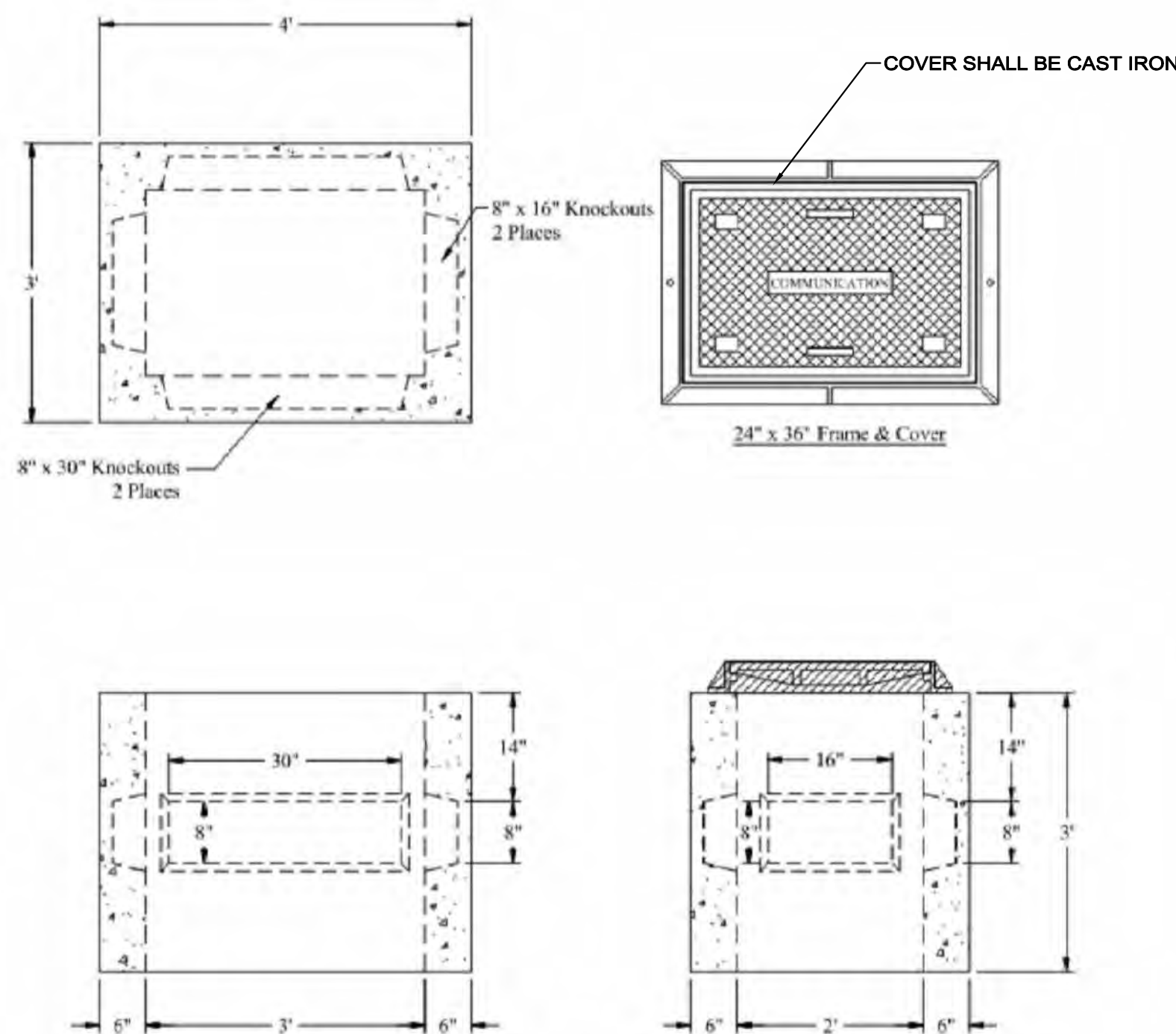
E513



- STREET LIGHT POLE FOUNDATION NOTES:
1. BOLT PATTERN SHOWN IS TYPICAL AND NOT FOR CONSTRUCTION CONTRACTOR TO PROVIDE BOLT PATTERN DETAILS BASED ON SELECTED MANUFACTURER.
 2. PROVIDE REBAR DETAIL FROM PRECAST CONCRETE VENDOR FOR APPROVAL.
 3. CONDUIT LOCATIONS SHOWN ARE TYPICAL.

NV5

CITY OF WORCESTER SITE LIGHTING POLE BASE DETAIL



1. THIS HANDHOLE IS INTENDED FOR NON-DELIBERATE VEHICULAR TRAFFIC ONLY.
 2. HANDHOLE SHALL BE PREFABRICATED POLYMER CONCRETE AGGREGATE EQUAL TO QUARTZITE OR EQUAL PRE CAST CONCRETE CONSTRUCTION.
 3. DIMENSIONS SHOWN ARE MINIMUM DIMENSIONS. CONTRACTOR TO SIZE ALL HANDHOLES PER MASSACHUSETTS ELECTRICAL CODE.
- NOTE: COMMUNICATIONS HANDHOLE DIMENSIONS SHALL BE 24"X36".
ELECTRICAL HANDHOLE DIMENSIONS SHALL BE 18"X24" UNLESS OTHERWISE NOTED.

NV5

CITY OF WORCESTER HANDHOLE DETAIL

Project:
CITY OF WORCESTER
Dept. of Parks, Recreation & Cemetery



GREAT BROOK VALLEY PARKS
IMPROVEMENTS
33 Northeast Cutoff, Worcester,
Massachusetts 01605

Weston & Sampson

427 Main St, Suite 400,
Worcester, MA 01608
508.762.1676 800.SAMPSON
www.westonandsampson.com

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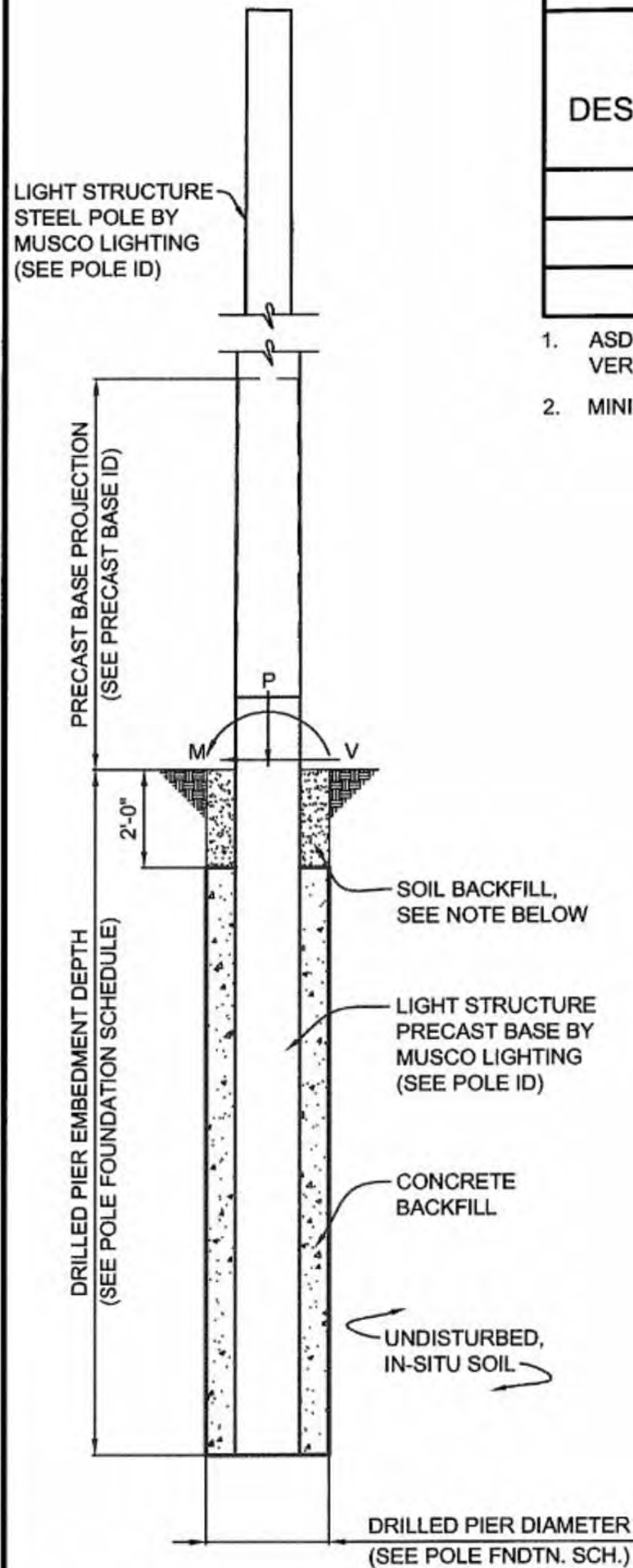
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**ELECTRICAL
DETAILS**

Sheet Number:

E300

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POLE FOUNDATION ELEV.

SCALE: NOT TO SCALE

SOIL BACKFILL NOTE:
THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH SOIL, WITH A CLASSIFICATION OF CLASS 5 (TABLE 1806.2) OR BETTER. COMPACTION, 95% FOR COHESIVE SOIL AND 98% FOR A COHESIONLESS SOIL BASED UPON STANDARD PROCTOR TESTING (ASTM D698).

POLE FOUNDATION SCHEDULE

POLE DESIGNATION	FORCES (1.)			DRILLED PIER		
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCHES	EMBEDMENT DEPTH	CONCRETE BACKFILL YD ³ (2.)
A1, A2	51,844	1,329	1,677	48	12'-0"	4.3
B1, B2	93,778	2,061	3,231	36	16'-0"	2.8
C1, C2	66,379	1,665	2,253	36	14'-0"	2.6

- ASD LOAD COMBINATION D + 0.6W.
VERTICAL FORCE IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT).
- MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.

PRECAST BASE IDENTIFICATION

PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
3B	2,470 LBS	20'-0"	8'-0"	12'-0"	13.38"
4B	3,490 LBS	22'-0"	8'-0"	14'-0"	15.75"
5B	4,580 LBS	23'-11"	7'-11"	16'-0"	18.25"

POLE IDENTIFICATION

POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT ²)
A1, A2	LSS70B	3B	5 (3)	19.6
B1, B2	LSS80B	5B	7 (5)	25.3
C1, C2	LSS70C	4B	7 (4)	25.3

- EACH POLE HAS (1) SPEAKER AT 30'-0" AGL, INCLUDED IN EPA ABOVE.
- EACH POLE HAS (1) CREEK OSQ FIXTURE AT 25'-0" AGL, INCLUDED ABOVE.
- EACH POLE HAS (1) CAMERA AT 20'-0" AGL, INCLUDED IN EPA ABOVE.
- POLES A1, A2, B1, & B2 HAVE (1) MUSCO LED FIXTURE AT 15'-6" AGL, INCLUDED ABOVE.
- POLES C1 & C2 HAVE (2) MUSCO LED FIXTURES AT 15'-6" AGL, INCLUDED ABOVE.

DESIGN NOTES

DESIGN PARAMETERS:
WIND: $V = 117$ MPH, $V_{\text{asd}} = 91$ MPH (EXPOSURE C, RISK CATEGORY II) PER MASSACHUSETTS STATE BUILDING CODE - 780 CMR, 10TH EDITION (IBC 2021 / ASCE 7-16).

GEOTECHNICAL PARAMETERS:
ALLOWABLE END BEARING SOIL PRESSURE: 4,000 PSF
ALLOWABLE LATERAL SOIL BEARING PRESSURE:
0 PSF/FT (GRADE TO -2'-0"); 222 PSF/FT (-2'-0" TO -7'-6"); 1 PSF/FT (-7'-6" TO -8'-6");
250 PSF/FT (-8'-6" TO -9'-0"); 125 PSF/FT (BELOW 9'-0")
IN ACCORDANCE WITH MASSACHUSETTS STATE BUILDING CODE - 780 CMR, 10TH ED., CHAPTER 18.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE SOILS AND FOUNDATION REPORT, NO. ENG24-1005, PREPARED BY WESTON & SAMPSON; READING, MA.

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT. CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION.

CONTRACTOR MUST BE FAMILIAR WITH THE COMPLETE SOIL INVESTIGATION REPORT AND BORINGS, AND CONTACT THE GEOTECHNICAL FIRM (IF NECESSARY) TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION OR BRACING DURING PRECAST BASE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

CONCRETE:
CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 3,000 PSI. 3,000 PSI CONCRETE SPECIFIED FOR EARLY POLE ERECTION, ACTUAL REQUIRED MINIMUM ALLOWABLE CONCRETE STRENGTH IS 1,000 PSI. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL.

GENERAL NOTES:
FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H : 1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.



GREAT BROOK VALLEY
BASEBALL
FIELD LIGHTING
WORCESTER, MA



STRUCTURAL
ENGINEERS, P.C.
114 NICHOLAS DRIVE
MARSHALLTOWN, IOWA 50158
PHONE NUMBER: 641-752-6334
EMAIL: MSL.INFO@SEPC.BIZ

DRAWING TITLE: POLE AND FOUNDATION SCALE: SEE PLAN NOTES: SCAN #X168504B	PROJECT NUMBER 168504	DATE 31 JANUARY 2025	DRAWING NUMBER C1 OF ONE
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Project:
CITY OF WORCESTER
Dept. of Parks, Recreation & Cemetery



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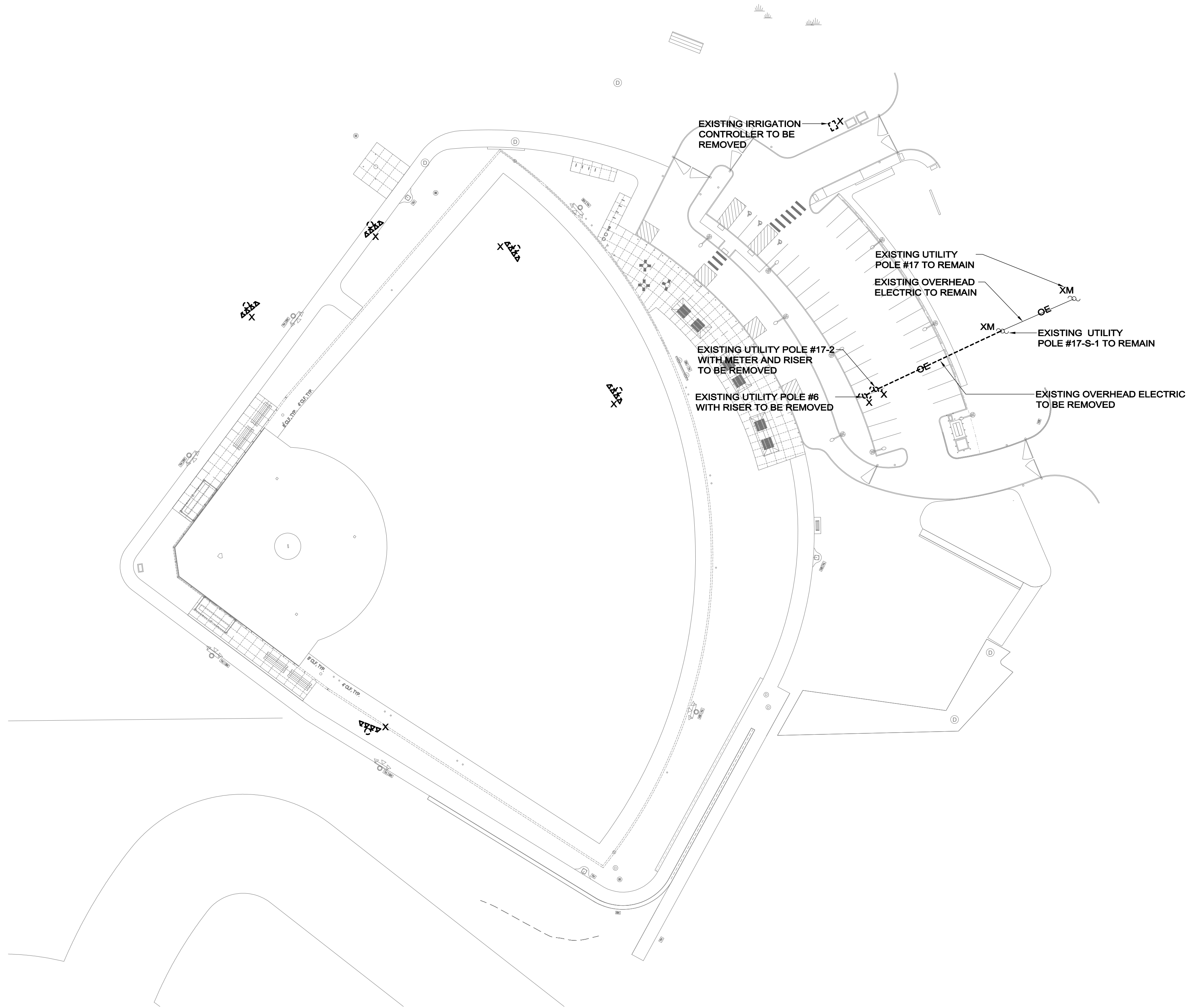
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**ELECTRICAL
DETAILS**

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E302

FOR INFORMATION ONLY

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ELECTRICAL SITE PLAN - DEMOLITION
SCALE: 1"=40'-0"

NOTES:

1. REFER TO DRAWING E000 FOR LEGEND, SYMBOLS, GENERAL NOTES AND DEMOLITION NOTES.
2. REFER TO CIVIL/LANDSCAPE DRAWINGS FOR ASSOCIATED NOTES, DETAILS, HEIGHTS AND EXACT LOCATION OF ALL EQUIPMENT.

Project:

CITY OF WORCESTER
Dept. of Parks, Recreation & Cemetery



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Consultants:

NIV5

200 Brickett Square,
Andover, MA 01810-1488
T: 978-296-6200
F: 978-296-6201
www.niv5.com

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Approved By: KEG

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W&S File No:

Drawing Title:

ELECTRICAL
SITE PLAN
DEMOLITION

Sheet Number:

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