ADR & Associates, Ltd.
88 West Church St.
Newark, Ohio 43055
740-345-1921
Fax 740-345-4994

Clientcentric Consulting
Design . Engineering . Innovation

LICKING COUNTY LIBRARY
Parking Lot Improvements
ADDENDUM #1
February 25, 2019

This document is an addendum to the bid documents for the Licking County Library Parking Lot Improvements. The Bidder shall sign the end of this addendum and staple it to the inside of the back cover of the bid book. Bids submitted without a signed addendum attached shall be considered non-responsive. The addendum shall be signed by the same official signing the bid documents for the bidder. The bidder shall add the addendum number and date to the blanks provided in Article 6 of the bid documents.

- Engineer's Construction Cost Estimate has been revised to $424,647.50
- See attached itemized list of changes included in Addendum #1

Sign this page, scan, and email to Bill Whipkey, Licking County Library at: bwhipkey@lickingcountylibrary.org

_____ _____
Received by: Signature & Print Name Date

The submitted bid includes provisions for the additions, deletions, clarifications and/or changes specified in Addendum #1.

_____ _____
Bidder

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LICKING COUNTY LIBRARY
Parking Lot Improvements
ADDENDUM #1
February 25, 2019

ITEMIZED LIST OF CHANGES:

1. Snow melt system shall be added to the (2) sidewalk replacement sections (622 sq. ft. total) located in front of the existing library building (See Rev.1 on sheet 3/7). Electrical conduit shall be extended to the existing building, owner shall be responsible for electrical connecton to building. Snow melt system specifications have been attached to this addendum.
2. Water irrigation tubing shall be extended to the existing library as shown on the plan. Contractor shall core drill into building, extend water tubing into building, and cap proposed tubing. Location to be as directed by the owner, owner shall be responsible for water tubing connection to existing building plumbing. (See Rev.1 on sheet 3/7).
3. Detailed elevation view of the book drop pavement replacement has been attached to this addendum for clarity only.
4. Existing building foundation, to be removed as shown on sheet 3/7 has been added to the general summary (See Rev.1 on sheet 2/7)
5. Item 407 Tack Coat (0.075 Gal./Sq. Yd.) has been added between existing pavement and proposed pavement layers, and between all proposed pavement layers. (See Rev.1 on sheet 3/7)
6. Bid form has been attached to this addendum. Contractor shall include itemized bid form with their bid for reference, the lump sum bid shall for a complete project shall still be utilized as originally described in the bid packet.

Licking County Library
Parking Lot Improvements
Bid Form

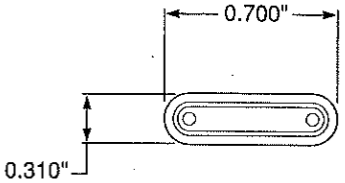
ITEM	DESCRIPTION	QUANTITY		Unit Cost	Extented Cost
		TOTAL	UNIT		
	BASE BID				
201	CLEARING AND GRUBBING	1	LUMP		
202	PAVEMENT REMOVED (CONCRETE)	345	SQ YD		
202	PAVEMENT REMOVED (ASPHALT)	228	SQ YD		
202	CURB REMOVED	234	FOOT		
202	BUILDING FOUNDATION REMOVED	1	LUMP		
203	EXCAVATION	1	LUMP		
203	EMBANKMENT	1	LUMP		
204	SUBGRADE COMPACTION	3604	SQ YD		
253	PAVEMENT REPAIR, AS PER PLAN	38	SQ YD		
254	PAVEMENT PLANING	1538	SQ YD		
207	TACK COAT	733	GAL		
304	AGGREGATE BASE	573	CU YD		
448	ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, PG 64-22	230	CU YD		
448	ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG 64-22	420	CU YD		
448	ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1, PG 64-22 (SCRATCH COAT, AS DIRECTE	20	CU YD		
451	NON-REINFORCED CONCRETE PAVEMENT	251	SQ YD		
608	4" CONCRETE WALK	1456	SQ FT		
609	CURB, STRAIGHT 18"	1833	FOOT		
SPECIAL	SNOW MELT SYSTEM	1	LUMP		
659	TOPSOIL	19	CU YD		
609	SEEDING AND MULCHING, CLASS 1	172	SQ YD		
630	SIGN ERECTED, FLAT SHEET	64	SQ FT		
630	GROUND MOUNTED SUPPORT, No. 2 POST	252	FOOT		
642	CROSSWALK LINE	60	FOOT		
642	TRANSVERSE/DIAGONAL LINE, TYPE 1	3070	FOOT		
642	HANDICAP SYMBOL MARKING, TYPE 1	10	EACH		
642	LANE ARROW	3	EACH		
642	PARKING STALL MARKINGS, TYPE 1	4510	FOOT		
603	6" ROOF DRAIN COLLECTOR (PVC, 707.45)	127	FOOT		
603	8" CONDUIT, TYPE B (PVC, 707.45)	95	FOOT		
603	12" CONDUIT, TYPE B (RCP, 706.02)	213	FOOT		
603	12" CONDUIT, TYPE B (CPP, 707.33)	406	FOOT		
603	12" CONDUIT, TYPE B (PVC, 707.45)	164	FOOT		
603	12" CONDUIT, TYPE C (CPP, 707.33)	100	FOOT		
604	MANHOLE (MH-1.1 "DOGHOUSE")	1	EACH		
604	CURB INLET (600-2)	1	EACH		
604	CATCH BASIN (CB No. 2-2B)	11	EACH		
SPECIAL	CLEANOUT	4	EACH		
SPECIAL	ROOF DRAIN DOWNSPOIUT RECONNECTION, AS PER PLAN	5	EACH		
805	3/4" WATER SERVICE TUBING	211	FOOT		
805	2" WATER SERVICE TUBING	170	FOOT		

ITEM	DESCRIPTION	QUANTITY		Unit Cost	Extented Cost
		TOTAL	UNIT		
805	GROUND MOUNTED SPIGOT BOX	2	EACH		
915	CLEANOUT	2	EACH		
918	6" SANITARY CONNECTION SERVICE PIPE	160	FOOT		
SPECIAL	SITE LIGHTING, COMPLETE	1	LUMP		
207	PERIMETER FILTER FABRIC FENCE	765	FOOT		
207	INLET PROTECTION	19	EACH		
SPECIAL	STABILIZED CONSTRUCTION ENTRANCE	1	EACH		
SPECIAL	CONCRETE WASHOUT	1	EACH		
614	MAINTAINING TRAFFIC	1	LUMP		
623	CONSTRUCTION LAYOUT STAKES	1	LUMP		
324	MOBILIZATION	1	LUMP		
				BASE BID	$ -

ALTERNATE 1 - CONCRETE PATH					
ITEM	**DESCRIPTION**	**TOTAL**	**UNIT**		
608	4" CONCRETE WALK	1,837	SQ FT		
				ALT. 1 TOTAL	
				BASE BID TOTAL + ALTERNATE 1	

EM2-XR

**Self-Regulating Heating Cable
For Concrete Snow-Melting
and Anti-Icing Applications**



Description

The ElectroMelt EM2-XR heating cable is a high-powered, self-regulating heating cable for concrete snow-melting and anti-icing applications. The uniquely blended polymer core of the heating cable adjusts its power output at every point along its length to eliminate hot spots and burnouts that can be experienced with constant-wattage heating cables. A heavy-duty, modified polyolefin outer jacket resists abrasion, puncture, and damage caused by rough handling.

Specifications

Operating voltage	208 to 277 Vac
Overcurrent protection	50 amps, maximum
Maximum circuit length	300 feet at 277 Vac
Minimum bend radius	2 inches
Minimum installation temperature	30°F
Maximum self-generated temperature	275°F

Circuit Breaker Sizing

220V

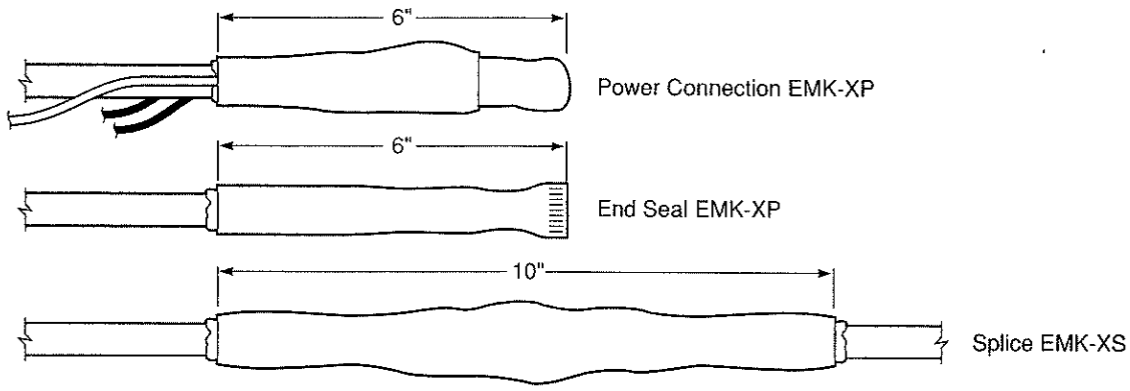
Maximum Heating Cable Circuit Length (in Feet) for Startup at 0°F				
Circuit Breaker	**Heating Cable Operating Voltage**			
	208 V	**220 V**	**240 V**	**277 V**
50 amp	245	250	265	300
40 amp	200	200	210	240
30 amp	145	150	160	180
20 amp	100	100	110	120
15 amp	75	75	80	90

Ordering Information

Catalog number	EM2-XR
Part number	449561
Description	Self-regulating heating cable
Packaging	Random-length reels
Shipping weight	0.18 pound per foot

EMK-XP
EMK-XS

**Power Connection and End Seal Kit, and Splice Kit
For Use with EM2-XR
Self-Regulating Heating Cable**



Description

The ElectroMelt termination and splicing components are used to terminate the end of the heating cable to power conductors or to splice one length of heating cable to another. These water-resistant electrical assemblies are sealed with a proprietary Raychem adhesive and protected by an outer heat-shrinkable tube manufactured by Raychem of crosslinked, modified polyolefin polymers.

Specifications

Temperature rating	90°F
Storage temperature	-40°F to 140°F
Minimum installation temperature	30°F
Power connection wire range	14 to 4 AWG
Voltage rating	600 Vac

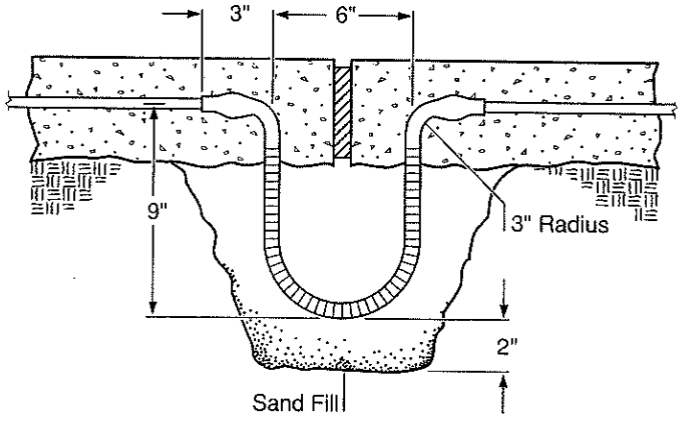
Ordering Instructions

Power connection and end seal	
Catalog number	EMK-XP
Part number	579519
Description	Power connection and end seal kit
Packaging	One power connection and one end seal per box
Shipping weight	0.4 pound

Splice kit	
Catalog number	EMK-XS
Part number	356667
Description	Splice kit
Packaging	One splice kit per box
Shipping weight	0.2 pound

EMK-XEJ

**Expansion Joint Kit
For Use with EM2-XR
Self-Regulating Heating Cable**



Description

The ElectroMelt EMK-XEJ expansion joint kit provides physical protection for the heating cable beneath slab joints. An expansion tube is used to form an expansion loop for the heating cable.

Specifications

Temperature rating	195°F
Storage temperature	-40°F to 140°F
Min. installation temperature	30°F

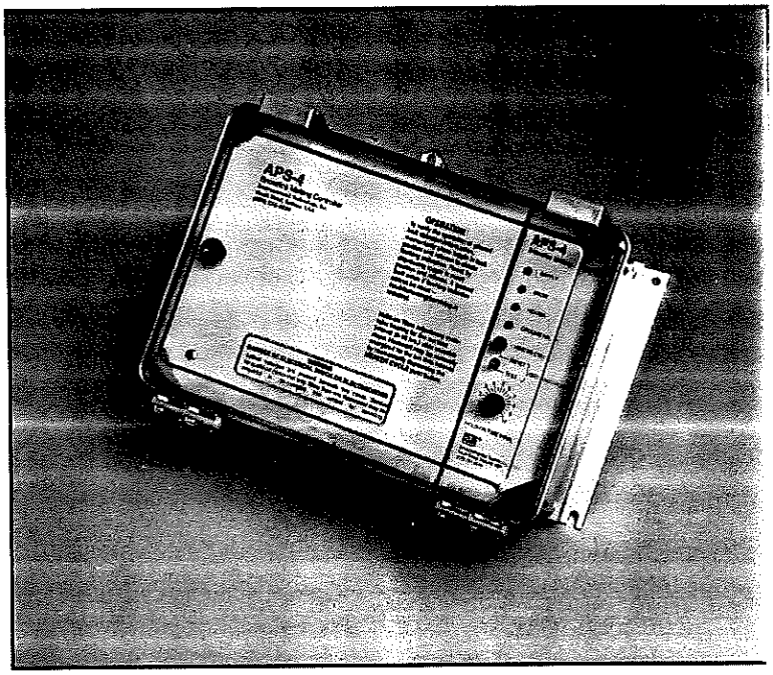
Ordering Information

Catalog number	EMX-XEJ
Part number	472207
Description	Expansion joint kit
Packaging	One expansion joint per kit
Shipping weight	0.3 pound

Automatic Snow/Ice Melting System Controller

MODEL APS™–4 SNOW SWITCH®

We Manage Heat!™



BENEFITS

- Automatic snow/ice melting control
- Minimum energy costs

FEATURES

- Integral GFCI protection
- Network control of satellite contactors
- Remote control/monitor (option)
- NEMA 3R enclosure
- U-L Listed
- Adjustable heater hold-on timer
- Heater cycle push button
- Multiple sensor capability

DESCRIPTION

In conjunction with up to six sensors residing in target zones, the microprocessor-based APS–4 provides effective, economical automatic control of snow melting applications for walkways, ramps, driveways, gutters and downspouts.

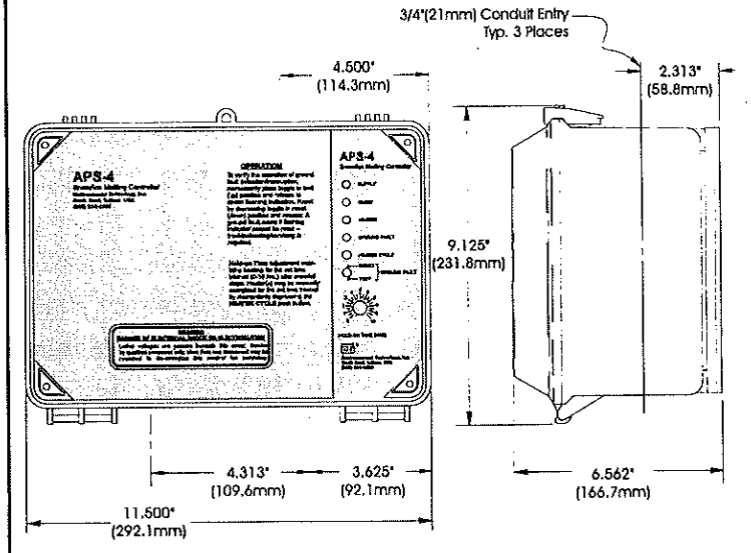
Operating at either 208-240 volt or 277 volt, 50/60 Hz, the APS–4's integral 2-pole contactor switches 40 amp heater loads and provides 30 ma ground fault detection/interruption with test feature.

The adjustable hold-on timer provides up to 10 hours of heater operation after snowfall ceases to complete snow/ice melting. Independent of weather conditions, a manual heater cycle control operates heaters for the hold-on period to clear tracked slush and drifted snow. LEDs provide indication of power, sensor status, heater operation and ground fault. Remote heater cycle and system indication is provided by RCU™–1 optional accessory.

The APS–4 nonmetallic enclosure is suitable for NEMA 1, 2, 3R, 12 and 13 applications over an ambient temperature range of -40° to 160°F (-40° to 60°C).

The APS–4 may host up to ten SC™–40 Satellite Contactors networked by a 2-conductor CommLink, allowing contactors to be located proximate to heaters and their power source.

For economy and ease of installation, sensor, CommLink and RCU–1 wiring may, each, have an equivalent installed length of 2,000'(609.6m) using NEC Class 2 #18 AWG multiconductor jacketed cable.



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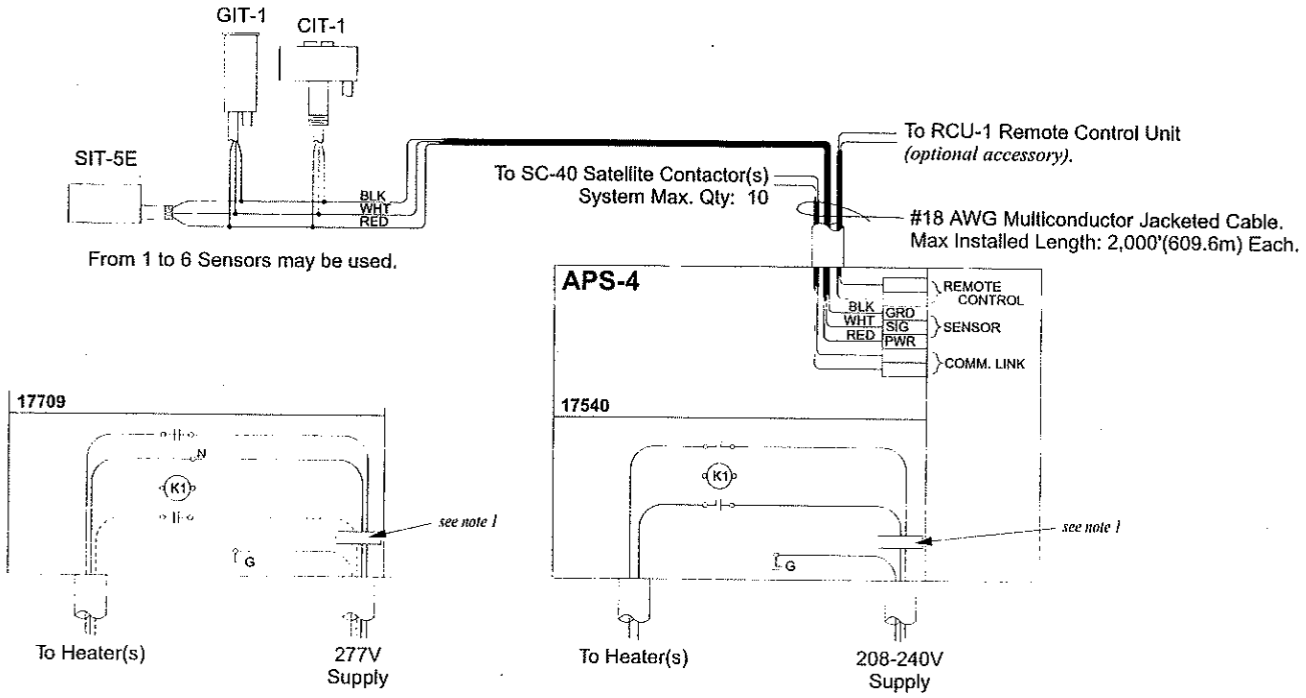
continuec

INSTALLATION

Install in accordance with the requirements of all applicable electrical and building codes and regulations. The APS–4 nonmetallic enclosure is furnished with three $^{3}/_{4}$"(21mm) conduit openings; if installed in a hostile environment, ensure that all conduit terminations are watertight.



Note 1: All line voltage supply conductors ***must*** *pass through GFCI current transformer toroid.*

ORDERING INFORMATION

Order Number	Description
17540	APS™–4 Control Panel, 208-240 Vac (U-L Listed)
17709	APS™–4 Control Panel, 277 Vac (U-L Listed)
17541	SC™–40 Satellite Contactor 208-240 Vac (U-L Listed)
17710	SC™–40 Satellite Contactor 277 Vac (U-L Listed)
17542	RCU™–1 Remote Control Unit

LIMITED WARRANTY

ETI's two year limited warranty covering defects in workmanship and materials applies. Contact Customer Service for complete warranty information.

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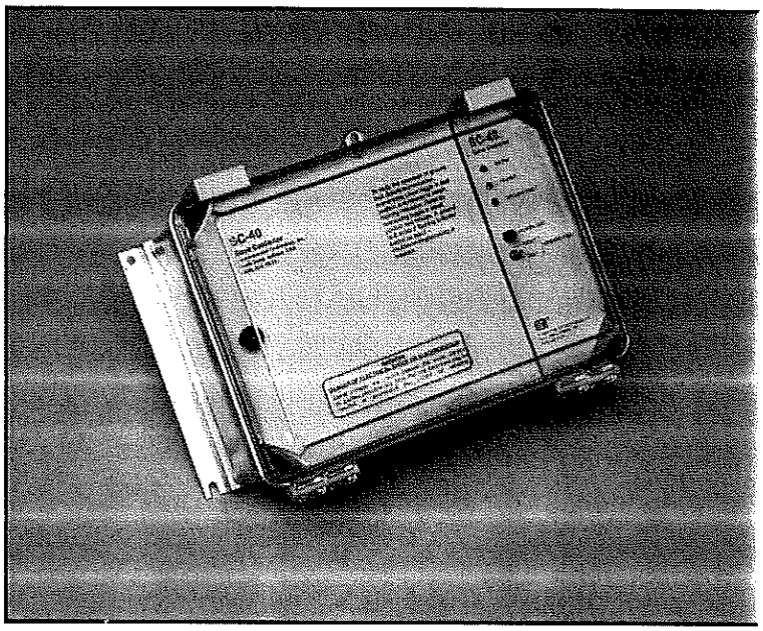
9/96 MKT 1098

We Manage Heat!™

Automatic Snow/Ice Melting System Peripher

MODEL SC™–40 SATELLITE CONTACTOR



BENEFITS

- Automatic snow/ice melting control
- Minimum energy costs

FEATURES

- Integral GFCI protection
- NEMA 3R enclosure
- U-L Listed
- Adjustable heater hold-on timer
- Heater cycle push button
- Simple installation
- Low cost

DESCRIPTION

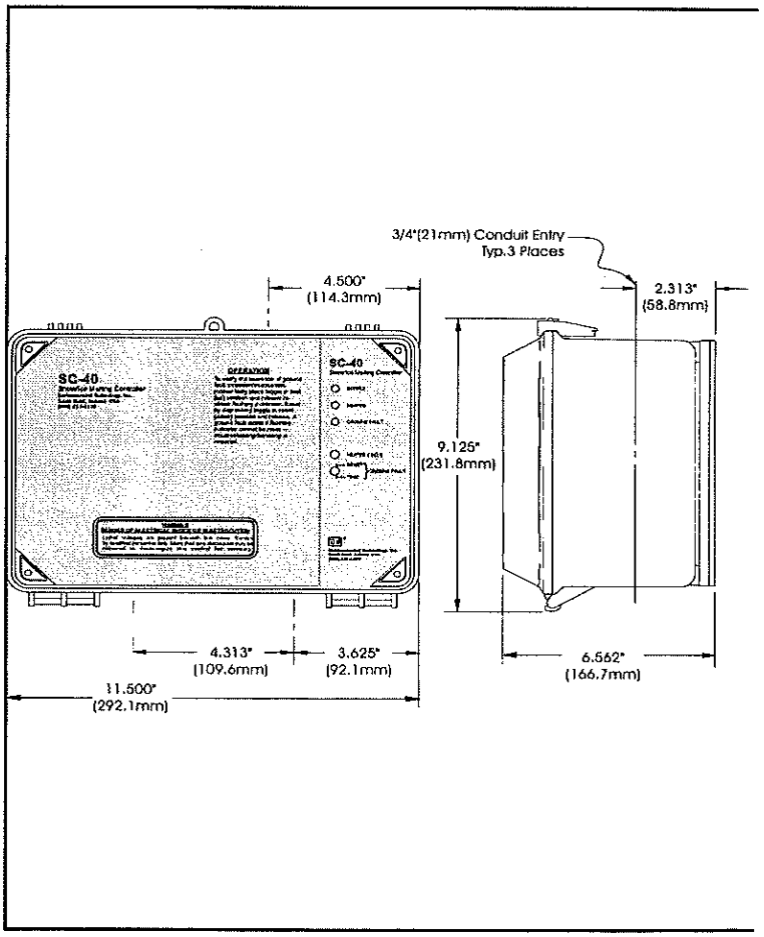
In conjunction with a host APS™–4 Control Panel, the SC–40 provides an economical means of controlling extensive snow/ice melting systems. Utilizing a 2-conductor CommLink, networking of up to ten SC–40 Satellite Contactors accommodates campus topologies, allowing contactors to be located proximate to heaters and their respective power source.

Operating at 208-240 volt, 50/60 Hz, the SC–40's integral 2-pole contactor switches 40 amp heater loads and provides 30 ma ground fault detection/interruption with test feature.

All networked SC–40 Satellite Contactors share the host APS–4's adjustable hold-on timer, providing up to 10 hours of heater operation after snowfall ceases to complete snow/ice melting. An integral manual heater cycle control operates heaters for the hold-on period to clear tracked slush and drifted snow independent of weather conditions. LEDs provide indication of power, heater operation and ground fault.

The SC–40 nonmetallic enclosure is suitable for NEMA 1, 2, 3R, 12 and 13 applications over an ambient temperature range of -40° to 160°F (-40° to 60°C).

For economy and ease of installation CommLink wiring may have an equivalent installed length of 2,000'(609.6m) using NEC Class 2 #18 AWG jacketed cable.



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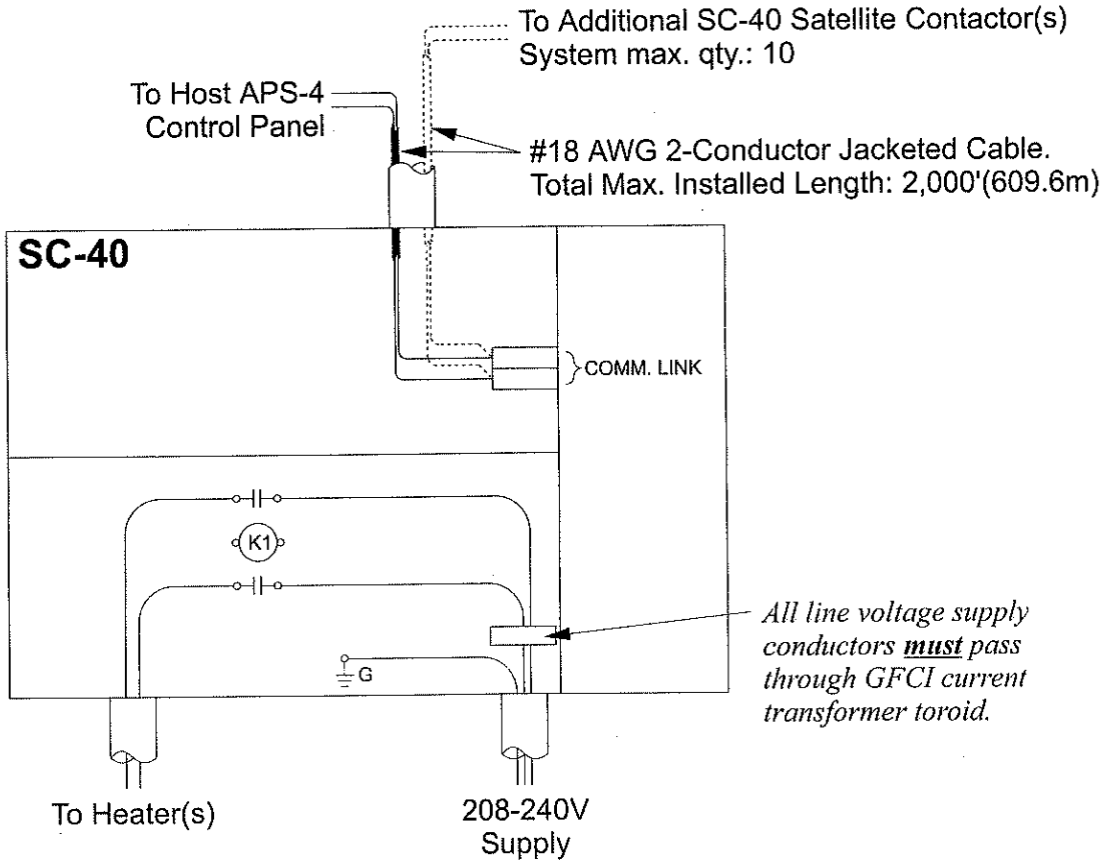
SOUTH BEND, IN 46601 USA

continued.

INSTALLATION

Install in accordance with the requirements of all applicable electrical and building codes and regulations. The SC–40 nonmetallic enclosure is furnished with three $^{3}/_{4}$"(21mm) conduit openings; if installed in a hostile environment, ensure that all conduit terminations are watertight.



ORDERING INFORMATION

Order Number	Description
17541	SC™–40 Satellite Contactor, 208-240 Vac (U-L Listed)
17710	SC™–40 Satellite Contactor, 277 Vac (U-L Listed)

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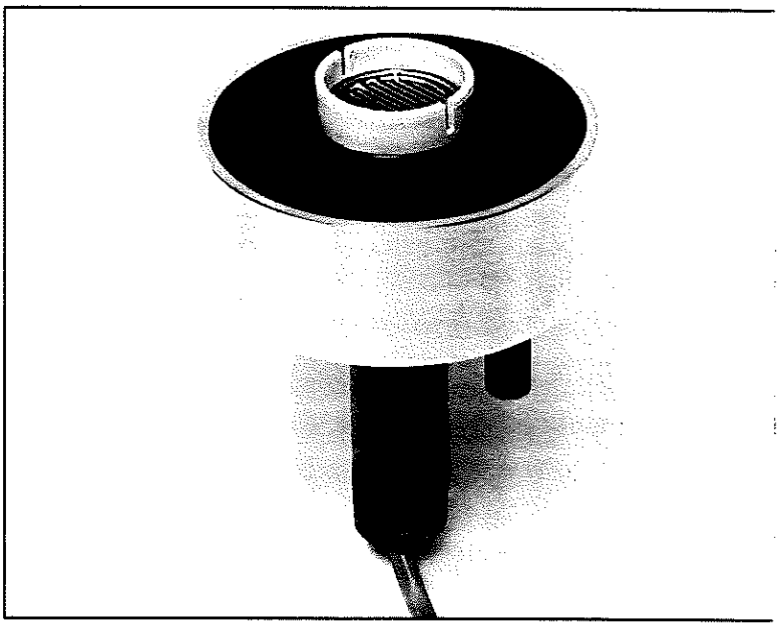
9/96 MKT 1099

"We Manage Heat"™

General Purpose Snow Sensor

MODEL CIT-1 SNOW SENSOR



BENEFITS

- Minimum snow melting costs
- No supervision required

FEATURES

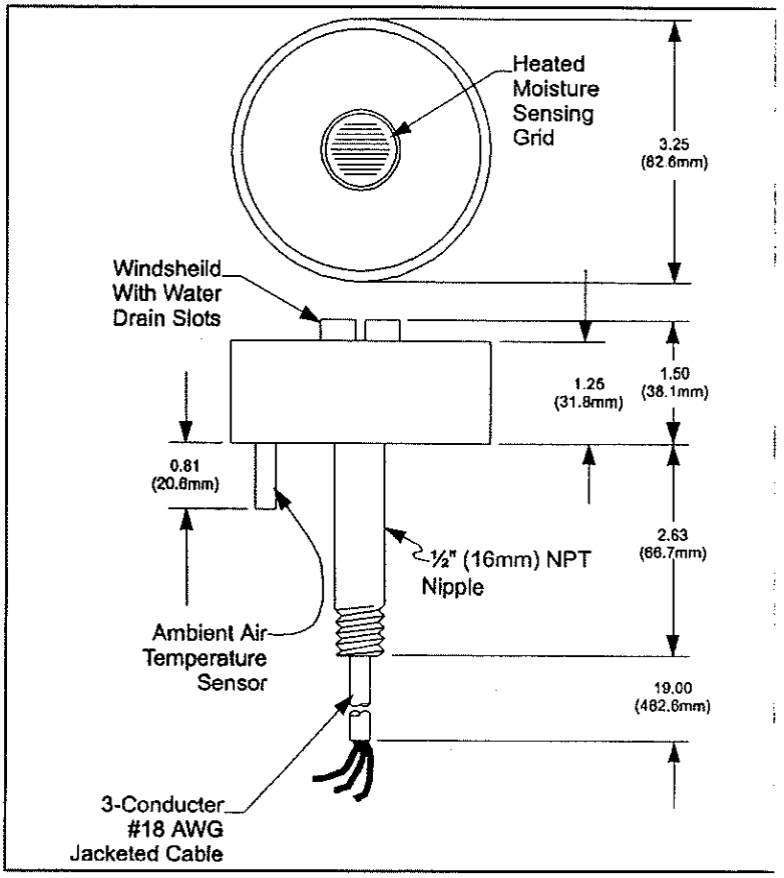
- Reliable snow sensing
- Senses both temperature and precipitation
- Application flexibility
- Simple installation
- Field proven in thousands of installations

DESCRIPTION

The CIT-1 Snow Sensor detects falling or blowing snow as precipitation at temperatures below 38° F (3.3° C). The CIT-1 provides the industry's most versatile and cost effective automatic snow melting control when used with either an APS-3A or APS-3B Control Panel or an EUR-4 Control Module.

Reliability and sensitivity are key CIT-1 features. The solid state design combined with a rugged aluminum housing and epoxy potting ensure many years of trouble free service. Precision precipitation and temperature sensors ensure snow detection accuracy.

Typical applications include controlling snow melting systems for sidewalks, doorways, stairs, loading docks, ramps for the physically challenged and parking garages. Easy installation is another key CIT-1 feature. Low voltage operation, up to 2000' (609.6m) separation from the control panel, mast or roof mounting, and non-critical extension wiring are just a few of the features making this possible.



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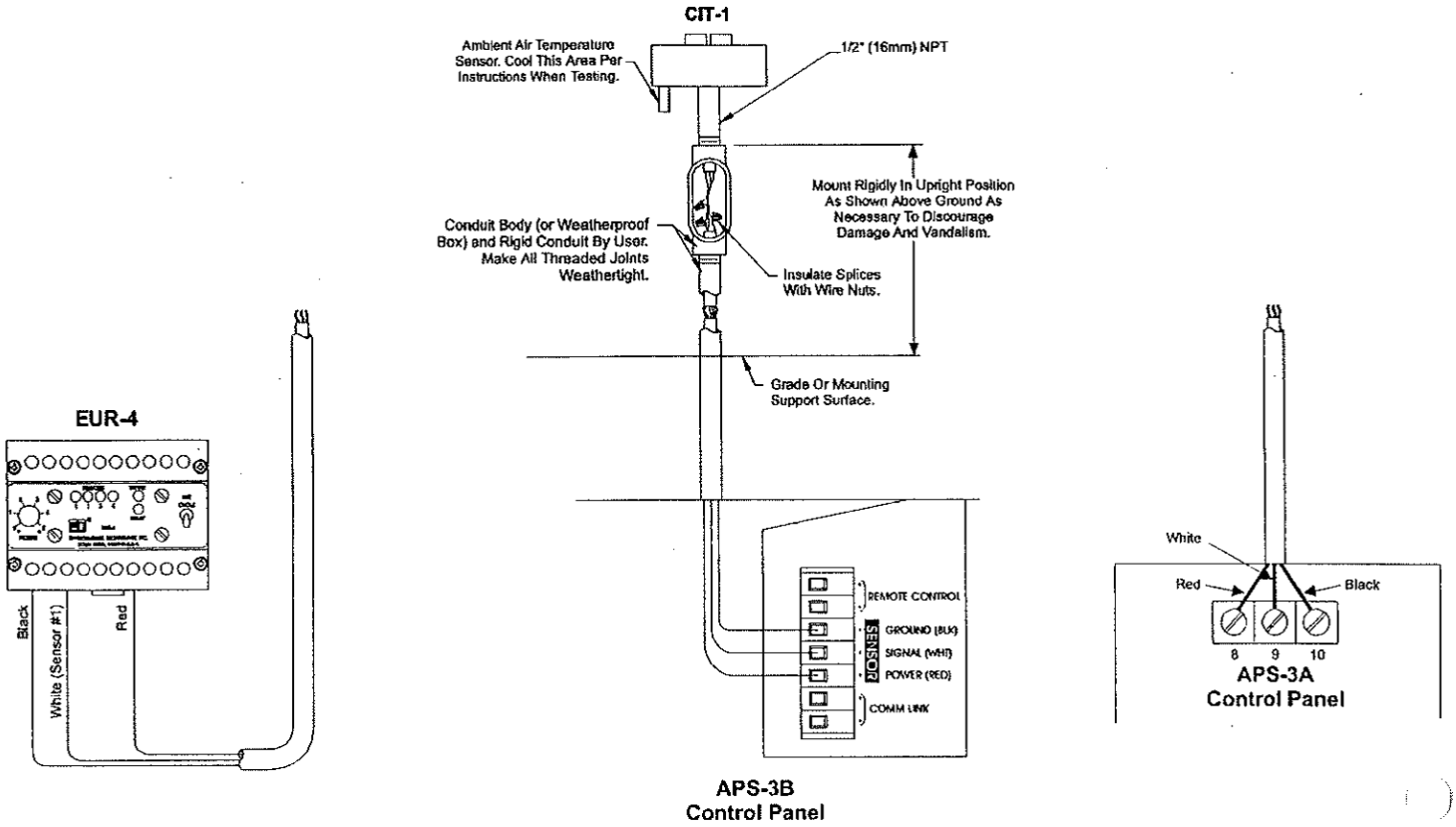
INSTALLATION



ORDERING INFORMATION

Order Number	Description
10001	CIT-1 Snow Sensor

LIMITED WARRANTY

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12/95 EP1M MKT 1062

"We Manage Heat"™

Automatic Snow/Ice Melting System Accessory

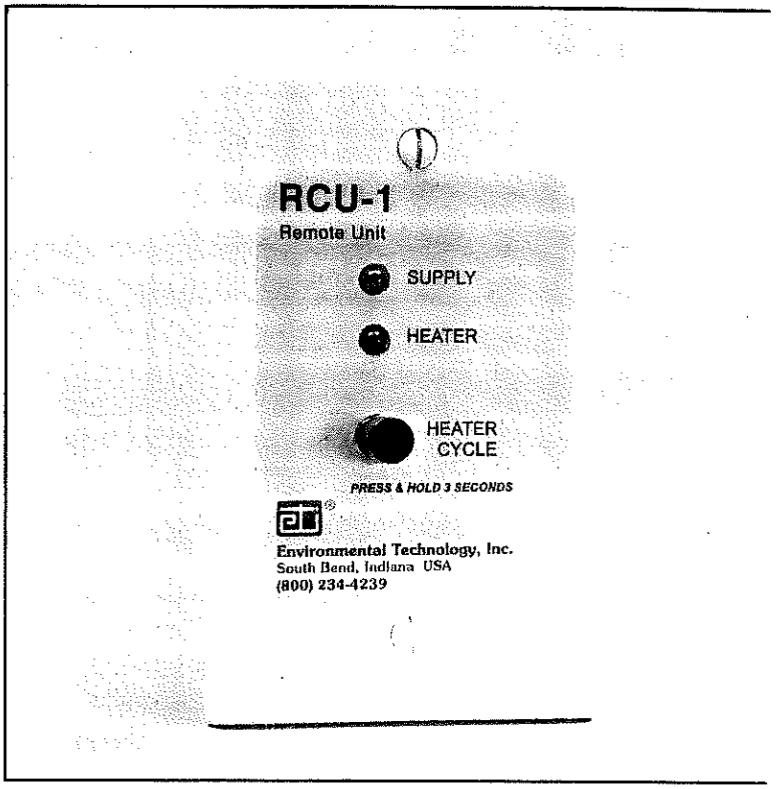
MODEL RCU-1 REMOTE CONTROL UNIT

BENEFITS

- Remote system status indication
- Convenient manual control for melting problem areas.

FEATURES

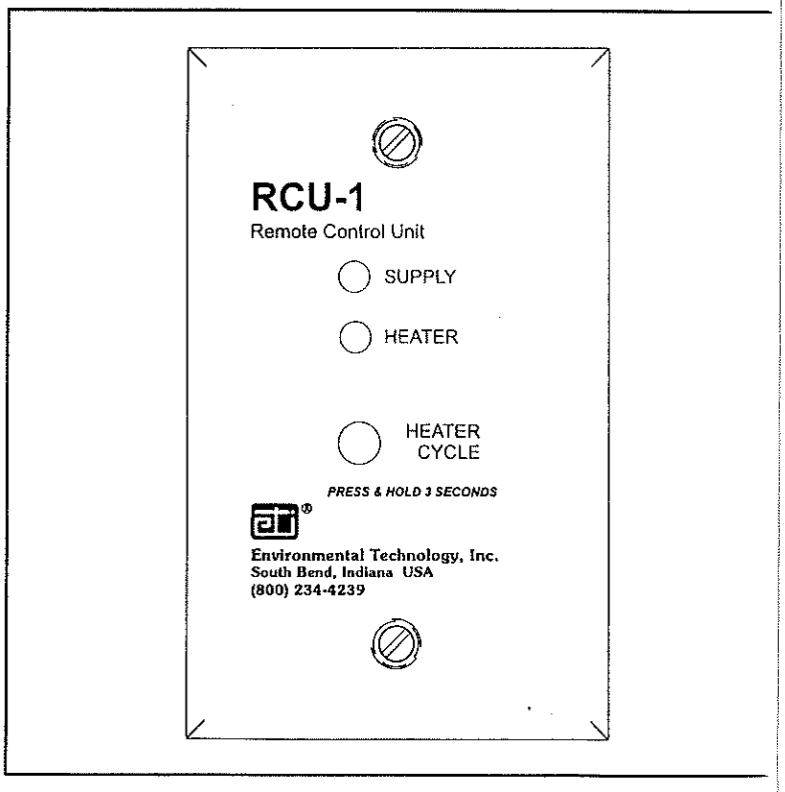
- Low Cost
- Simple installation



DESCRIPTION

The RCU-1 Remote Control Unit is a companion accessory to both the APS-3B and the APS-4 Snow/Ice Melting Controllers. The RCU-1 provides a convenient and economical means to both monitor and manually control a snow/ice melting system from a remote location. The integral heater cycle push button operates heaters for the hold-on time setting on the host Control Panel, permitting tracked slush or drifted snow to be cleared independent of prevailing meteorologic conditions. LEDs provide indication of system power supply and heater operation.

The RCU-1 Remote Control Unit employs an attractive single gang metallic device plate suitable for both flush and surface installations. The RCU-1 interfaces with its host Control Panel via a NEC Class 2 circuit which may have an installed length as great as 2,000' (609.6m) utilizing 2-conductor #18 AWG jacketed cable.



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continued . .

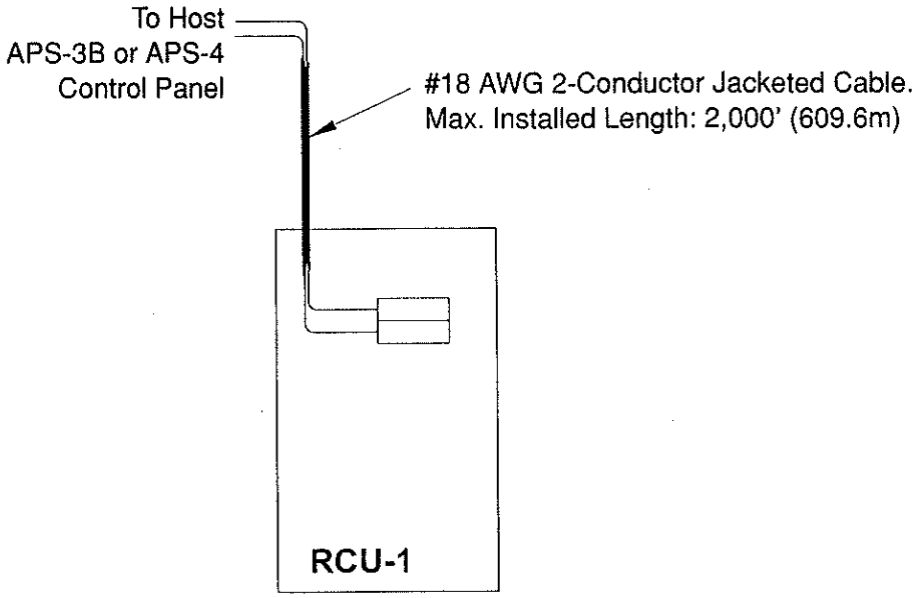
INSTALLATION

Flush mounting applications may employ one of the following rough-ins:

1) 1 1/2" (38.1mm) deep single gang switch box
2) 1 1/2" (38.1mm) deep outlet box with single gang device cover
3) Single gang low voltage rough in ring

Surface mounting applications may employ one of the following rough-ins:

1) 1 1/2" (38.1mm) deep handy box
2) 2" (50.8mm) deep single gang cast or nonmetallic device box



ORDERING INFORMATION

Order Number	Description
17542	RCU-1 Remote Control Unit

LIMITED WARRANTY

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2/96 EP1M MKT 1100

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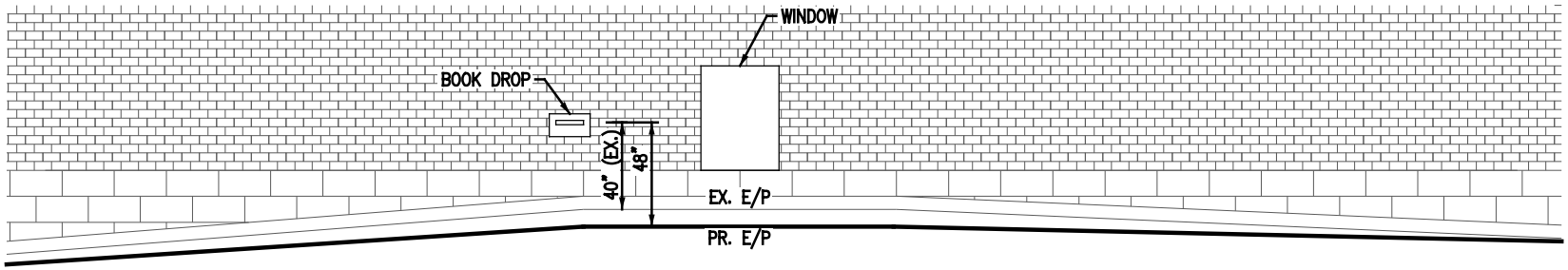

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REVISIONS
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3 -

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GENERAL NOTES

SPECIFICATIONS
CITY OF NEWARK CONSTRUCTION AND MATERIAL SPECIFICATIONS, DATED AUGUST 1, 1996, ALONG WITH THE 2010 VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CMS SHALL GOVERN THIS PROJECT.

NOTIFICATION
THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES AT LEAST 48 HOURS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION.

CITY OF NEWARK ENGINEER: (740) 670-7727
WATER DEPARTMENT: (740) 349-6762
SEWER DEPARTMENT: (740) 349-6764
STORMWATER UTILITY: (740) 670-7762

GENERAL
THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL INSPECTION FEES.

THE CITY OF NEWARK STORMWATER UTILITY SHALL BE CONTACTED PRIOR TO CONSTRUCTION FOR PRE-CONSTRUCTION GRADING INSPECTION.

ALL CONSTRUCTION STAKING REQUIRED FOR THIS PROJECT SHALL BE PERFORMED BY OR AT THE DIRECTION OF AN OHIO REGISTERED PROFESSIONAL SURVEYOR OR ENGINEER.

GRANULAR BACKFILL SHALL BE TAMPED WITH A VIBRATORY COMPACTOR IN 12" LAYERS (MAXIMUM).

ALL ADJOINING PROPERTIES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE RESTORED TO THE SAME OR BETTER CONDITION. THIS INCLUDES GRADING, SEEDING, AND REMOVAL OF EXCESS MATERIALS.

THE CONTRACTOR SHALL CLEAN ALL MUD, DIRT, DEBRIS, ETC. FROM THE PUBLIC RIGHT-OF-WAY LEFT AS A RESULT OF WORK ON THIS PROJECT, DAILY.

WITHIN THE PUBLIC RIGHT-OF-WAY, OR WITHIN SEWER OR WATER EASEMENTS, #57 STONE BEDDING AND BACKFILL SHALL BE USED FROM 6" BELOW THE PIPE TO A MINIMUM OF 1' ABOVE THE PIPE. THE REMAINDER OF THE BACKFILL SHALL BE APPROVED BY THE CITY. THIS APPLIES TO STORM AND SANITARY. TRENCHES UNDER PAVEMENT AND CURBS SHALL HAVE COMPACTIBLE GRANULAR BACKFILL (ITEM 304) FULL DEPTH. FOR ANY REPLACEMENT OR REMOVAL OF WATERLINES, THE BACKFILL SHALL BE ODOT ITEM 703.

IRON PINS MARKING PROPERTY LINES/CORNERS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED BY A REGISTERED SURVEYOR.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PERMANENT SEEDING & MULCHING, TOPSOIL, FERTILIZER, AND WATER AS PER ODOT ITEM 659, TO ALL DISTURBED AREAS.

SAFETY REQUIREMENTS: THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PEOPLE (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

A PRE-CONSTRUCTION MEETING MUST BE HELD PRIOR TO THE START OF ANY CONSTRUCTION. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL PROVIDE ALL SHOP DRAWINGS AND MATERIAL SHEETS FOR REVIEW, A LIST OF ALL SUBCONTRACTORS, A WRITTEN SCHEDULE FOR THE PROJECT, EMERGENCY NUMBERS, AND OTHER ITEMS REQUESTED BY THE ENGINEER, PRIOR TO BEGINNING ANY WORK ON THE PROJECT.

CONTRACTOR MUST NOTIFY THE CITY UTILITIES DEPARTMENT 48 HOURS PRIOR TO CONNECTING TO THE WATER OR SEWER SYSTEM.

UTILITIES
THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UTILITY.

SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.

THE CONTRACTOR SHALL CAUSE NOTICE TO BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (PHONE 800/362-2764-TOLL FREE) AND TO THE OWNERS OF THE UTILITY FACILITIES SHOWN ON THE PLAN WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE REVISED CODE. THE ABOVE MENTIONED NOTICE SHALL BE GIVEN AT LEAST 48 HOURS PRIOR TO THE START OF THE CONSTRUCTION.

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

SANITARY SEWER:	CITY OF NEWARK	740-349-6764
STORMWATER UTILITY:	CITY OF NEWARK	740-670-7762
WATER:	CITY OF NEWARK	740-349-6762
CABLE:	SPECTRUM	740-345-7329
ELECTRIC:	AEP	740-349-8873
GAS:	ENERGY CO-OP	740-344-2102
TELEPHONE:	WINDSTREAM	740-349-8873

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES
WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

MAINTENANCE OF TRAFFIC
NO WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL OCCUR WITHOUT A "USE OF THE PUBLIC RIGHT-OF-WAY" PERMIT APPROVED BY THE CITY ENGINEER AND CITY SERVICE DIRECTOR. IF ANY PORTION OF THE ROADWAY WILL NEED TO BE RESTRICTED, BUT TWO-WAY TRAFFIC WILL BE MAINTAINED, THE CONTRACTOR SHALL DISCLOSE THIS ON THE PERMIT AND NOTIFY THE CITY WITHIN 48-HOURS OF THE RESTRICTION. IF TWO-WAY TRAFFIC CANNOT BE MAINTAINED, THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST TWO WEEKS PRIOR TO THE CLOSING AND, IF NECESSARY, THE CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING A MAINTENANCE OF TRAFFIC PLAN AND POSTING A DETOUR ROUTE. STREET AND/OR SIDEWALK CLOSURES OR RESTRICTIONS IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE CITY ENGINEER, SHALL NOT BE PERMITTED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN TRAFFIC WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL ERECT, MAINTAIN, AND REMOVE THE NECESSARY TRAFFIC CONTROL DEVICES, BARRICADES, FLAGMEN, LIGHTS, ETC., TO SAFELY MAINTAIN TRAFFIC AROUND HIS OPERATIONS. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH SECTION 614 OF THE LATEST EDITION OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND RELEVANT ODOT STANDARD CONSTRUCTION DRAWINGS. IF THE CONTRACTOR FAILS TO COMPLY WITH THESE PROVISIONS, THE CITY ENGINEER SHALL SUSPEND WORK UNTIL THE REQUIREMENTS ARE MET.

STORM SEWER
ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED AS PER CITY OF NEWARK ORDINANCE NUMBER 91-59.

STORM SEWERS SHALL BE CONSTRUCTED WITH 706.02 (RCP), 707.33 (HDPE), OR 707.41 (PVC).

A NEENAH R-1642, EAST JORDAN 1047, OR EQUIVALENT COMBINATION RING AND LID w/ CITY OF NEWARK SEAL "STORM" LISTED AS NEEDED SHALL BE USED ON ALL MANHOLES.

THE CONTRACTOR SHALL MAINTAIN SERVICE IN THE EXISTING LINE WHEN CONSTRUCTING THE PROPOSED CONNECTION. CONTRACTOR SHALL NOTIFY CITY OF NEWARK, STORMWATER UTILITY 48 HOURS PRIOR TO CONSTRUCTING ANY CONNECTION TO PERFORM A SITE VISIT.

SANITARY SEWER
ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED AS PER CITY OF NEWARK ORDINANCE NUMBER 91-59.

ALL SANITARY SEWERS (MAINS & LATERALS):
1) MATERIAL SPECIFICATION: ASTM D-3034, SDR 35;
   A) ALL SANITARY SEWERS WITH MORE THAN 15' OF COVER SHALL BE CONSTRUCTED WITH SDR 26 PIPE.
2) JOINT SPECIFICATION: ASTM D-3212;
3) BEDDING CLASSIFICATION: ASTM D-2321 (#57 STONE)

SANITARY SEWERS (PRESSURE)
1) MATERIAL SPECIFICATION: AWWA C-900, AWWA C-905 OR ASTM D-2241
2) JOINT SPECIFICATION: ASTM D-3139

ALL SANITARY MANHOLES:
1) TYPE: PRECAST; STD. DWG. 900-0, 900-2
2) MATERIAL SPECIFICATION: ASTM C-150;
3) JOINT SPECIFICATION: ASTM C-443

TESTING (ALL SANITARY SEWERS - MAINS & LATERALS)
1) MANDREL TEST: THE CONTRACTOR SHALL MANDREL TEST ALL PVC SANITARY SEWER PIPE FOR DEFLECTION A MINIMUM OF 30 DAYS AFTER INSTALLATION. PIPE DEFLECTION SHALL NOT EXCEED 5%.
2) LEAKAGE TEST: (HYDROSTATIC OR AIR)
   HYDROSTATIC (MINIMUM 2' POSITIVE HEAD): INFILTRATION OR EXFILTRATION SHALL NOT EXCEED 100 GALLON/INCH DIAMETER/MILE/DAY.
   AIR: ASTM F-1417

TESTING (SANITARY MANHOLES)
1) DAMAGE: MANHOLES SHALL BE VISUALLY INSPECTED FOR DAMAGE PRIOR TO INSTALLATION WITH LIFT HOLES FILLED WITH NON-SHRINKING MORTAR.
2) LEAKAGE: (HYDROSTATIC OR AIR)
   HYDROSTATIC: FILL WITH WATER, CHECK FOR EXFILTRATION.
   AIR: ASTM C-1244

ALL LATERALS SHALL BE 4 INCH MINIMUM AND SHALL BE CONSTRUCTED AS PER CITY OF NEWARK STANDARD DRAWING 900-4. Y POLES SHALL BE PAINTED FLUORESCENT ORANGE.

SERVICES OR HOUSE CONNECTIONS SHALL NOT BE CONNECTED TO THE LATERAL OR MAIN LINE SEWERS SHOWN HEREON UNTIL FULL APPROVAL OF SAID LATERAL OR MAIN LINE SEWER HAS BEEN RECEIVED.

SANITARY SEWER (CONTINUED)
RISERS SHALL BE PLACED ON ALL WYES WHERE THE FLOW LINE DEPTH IS GREATER THEN 12 FEET. TOPS OF RISERS ARE TO BE 10 FEET BELOW GROUND, PLUS OR MINUS ONE FOOT, OR AS OTHERWISE ORDERED.

WHERE THE SANITARY SEWER CROSSES UNDER A PROPOSED STORM SEWER, THE TRENCH SHALL BE BACKFILLED TO THE BOTTOM OF THE PROPOSED STORM SEWER WITH COMPACTED GRANULAR MATERIAL.

ALL SANITARY SEWERS SHALL BE STAKED BY A REGISTERED SURVEYOR AT 25 FOOT STATIONS UNLESS A LASER IS USED AND THEN THEY SHALL BE STAKED AT 100 FOOT STATIONS.

ALL SANITARY SEWER MAINS SHALL BE TV CAMERA INSPECTED BY CITY PERSONNEL PRIOR TO ACCEPTANCE AND SHALL BE FREE OF DEBRIS AND STRUCTURAL DEFECTS.

A NEENAH R-1642, EAST JORDAN 1047, OR EQUIVALENT COMBINATION RING AND LID SHALL BE USED ON ALL MANHOLES.

SANITARY SEWERS AND WATERLINES SHALL MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE. WHENEVER A SANITARY SEWER AND WATERLINE CROSS WITH LESS THAN 18" CLEARANCE, THE SANITARY SEWER CROSSING SHALL BE PRESSURE PIPE OF THE SAME INSIDE DIAMETER AS THE GRAVITY PIPE. A FULL LENGTH OF SANITARY SEWER PIPE SHALL BE CENTERED ON THE WATERLINE.

ALL SANITARY TAPS SHALL BE CONSTRUCTED TO THE RIGHT-OF-WAY OR EASEMENT BY SITE UTILITY SUBCONTRACTOR. SANITARY WYES SHALL NOT BE INSTALLED CLOSER THAN 6 FEET APART.

10 FEET OF SEPARATION SHALL BE MAINTAINED BETWEEN WATER SERVICES AND SEWER LATERALS.

THE CONTRACTOR SHALL MAINTAIN SERVICE IN THE EXISTING SEWER LINE WHEN CONSTRUCTING THE PROPOSED SEWER CONNECTION.

WATERLINE
WATERLINES SHALL BE CONSTRUCTED AS PER CITY OF NEWARK SPECIFICATIONS.

WATERLINES SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE, CLASS 52, CEMENT LINED WITH BITUMINOUS COATING.

HYDRANTS SHALL BE AMERICAN DARLING MODEL B-62-B, AS SHOWN IN THE CITY OF NEWARK STANDARD DRAWINGS 800-5 AND 800-6.

ALL BENDS, JOINTS AND DEFLECTIONS, AND FITTINGS SHALL BE BLOCKED WITH CONCRETE AS PER CITY OF NEWARK STANDARD DRAWINGS 800-3 AND 800-4, AS WELL AS, SPECIFICATION 801.05 OR APPROVED JOINT RESTRAINT (IE) MEGALUG, UNIFLANGE, GRIP RING.

ALL TEES SHALL BE ANCHORING TEES (CLOW F-1217).

ALL WATER SERVICE LINES SHALL BE 3/4 INCH IN DIAMETER, K-COPPER W/ TAP IN ACCORDANCE WITH CITY OF NEWARK STANDARD DRAWING 800-WS-3. ALL WATER SERVICES SHALL BE AS PER 800-WS-3 MODIFIED TO HAVE TAPS AT THE 2 O'CLOCK AND 10 O'CLOCK POSITIONS WITH COMPRESSION FITTINGS.

ALL WATER SERVICES SHALL BE AS PER CITY OF NEWARK STANDARD DRAWING 800-WS-3 OR 800-WS-3A WITH CURB BOX AND STOP TO BE INSTALLED 1 FOOT INSIDE THE RIGHT-OF-WAY OR EASEMENT BY UTILITY SUBCONTRACTOR. ALL CURB BOXES SHALL BE CLEANED AND OPERATIONAL PRIOR TO ACCEPTANCE.

WATERLINE SHOULD BE STAKED TO ENSURE PROPER DEPTH VS. FINISHED GRADE.

THE WATERLINE SHALL BE TESTED AND DISINFECTED PRIOR TO ACCEPTANCE BY THE CITY OF NEWARK AS PER AWWA C600-93 (HYDROSTATIC TEST) AND AWWA C651-92 DISINFECTION).

COST FOR TESTING SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 801

INDIVIDUAL BOOSTER PUMPS WILL NOT BE ALLOWED FOR ANY INDIVIDUAL SERVICE.

THE NORMAL WORKING PRESSURE IN THE WATERLINES WILL NOT BE LESS THAN 35 PSI AS PER INFORMATION PROVIDED BY THE CITY OF NEWARK.

IN ALL CONFLICTS IN GRADE BETWEEN WATERLINES AND GRAVITY SEWERS, THE WATERLINES SHALL BE LOWERED DURING CONSTRUCTION. A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE WATERLINE AND SANITARY/STORM SEWER.

NO SERVICE LINE SHALL BE TAPPED NEARER THAN 10 FEET FROM THE END OF THE MAIN PER 800-WS-3. ALL WATER SERVICES SHALL BE AS PER 800-WS-3 MODIFIED TO HAVE TAPS AT THE 2 O'CLOCK AND 10 O'CLOCK POSITIONS WITH COMPRESSION FITTINGS.

WATERLINES SHALL BE CONSTRUCTED TO MAINTAIN A MINIMUM OF 4.5 FEET AND A MAXIMUM OF 6.0 FEET OF COVER FROM TOP OF PIPE TO FINAL GROUND LINE. UNLESS OTHERWISE APPROVED BY THE UTILITIES SUPERINTENDENT.

THE OPERATION OF ALL IN-SERVICE VALVES SHALL BE BY WATER DEPARTMENT PERSONNEL ONLY. A 24 HOUR ADVANCE NOTICE SHALL BE GIVEN TO REQUEST SHUTDOWNS FOR TIE-INS.

ALL WATERLINE MATERIALS SHALL BE AWWA APPROVED.

AS-BUILT DRAWINGS SHALL BE SUBMITTED PRIOR TO ACCEPTANCE OF SYSTEM.

FINAL WALK THROUGH IS NEEDED PRIOR TO ACCEPTANCE OF SYSTEM.

WATERLINE (CONTINUED)
A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR, DEVELOPER, ENGINEER, AND CITY OF NEWARK WATER & SEWER MUST BE HELD BEFORE CONSTRUCTION BEGINS AND BEFORE SIGNED PLANS ARE ISSUED.

WATER IS NOT TO BE TURNED ON WITHOUT PROPER BACKFLOW PREVENTION OR BEFORE METER INSTALLATION AS PER CITY OF NEWARK STANDARD DRAWINGS. IMMEDIATELY NOTIFY WATER OFFICE (740-349-6730) ONCE METER/REMOTE READER IS SET AND READY FOR WATER TO BE TURNED ON AND INSPECTED.

THERE SHALL BE ONE STRUCTURE ON EACH METER. BUILDINGS THAT HAVE MULTIPLE WATER METERS ARE REQUIRED TO HAVE A PRIVATE STOP AND/OR LOCKSTOP ON THE MAIN SIDE OF EACH METER WITH PROPERLY SIZED THERMAL EXPANSION TANK BETWEEN THE DUAL CHECK AND WATER HEATER.

GENERAL SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
201	1	LUMP	CLEARING AND GRUBBING
202	345	SQ YD	PAVEMENT REMOVED (CONCRETE)
202	228	SQ YD	PAVEMENT REMOVED (ASPHALT)
202	234	FOOT	CURB REMOVED
202	1	LUMP	BUILDING FOUNDATION REMOVED
203	1	LUMP	EXCAVATION
203	1	LUMP	EMBANKMENT
204	3604	SQ YD	SUBGRADE COMPACTION
253	38	SQ YD	PAVEMENT REPAIR, AS PER PLAN
254	1538	SQ YD	PAVEMENT PLANING
207	733	GAL	TACK COAT
304	573	CU YD	AGGREGATE BASE
448	230	CU YD	ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, PG 64-22
448	420	CU YD	ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG 64-22
448	20	CU YD	ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1, PG 64-22 (SCRATCH COAT, AS DIRECTED)
451	251	SQ YD	NON-REINFORCED CONCRETE PAVEMENT
608	1456	SQ FT	4" CONCRETE WALK
609	1833	FOOT	CURB, STRAIGHT 18"
SPECIAL	1	LUMP	SNOW MELT SYSTEM
659	19	CU YD	TOPSOIL
609	172	SQ YD	SEEDING AND MULCHING, CLASS 1
630	64	SQ FT	SIGN ERECTED, FLAT SHEET
630	252	FOOT	GROUND MOUNTED SUPPORT, No. 2 POST
642	60	FOOT	CROSSWALK LINE
642	3070	FOOT	TRANSVERSE/DIAGONAL LINE, TYPE 1
642	10	EACH	HANDICAP SYMBOL MARKING, TYPE 1
642	3	EACH	LANE ARROW
642	4510	FOOT	PARKING STALL MARKINGS, TYPE 1
603	127	FOOT	6" ROOF DRAIN COLLECTOR (PVC, 707.45)
603	95	FOOT	8" CONDUIT, TYPE B (PVC, 707.45)
603	213	FOOT	12" CONDUIT, TYPE B (RCP, 706.02)
603	406	FOOT	12" CONDUIT, TYPE B (CPP, 707.33)
603	164	FOOT	12" CONDUIT, TYPE B (PVC, 707.45)
603	100	FOOT	12" CONDUIT, TYPE C (CPP, 707.33)
604	1	EACH	MANHOLE (MH-1.1 "DOGHOUSE")
604	1	EACH	CURB INLET (600-2)
604	11	EACH	CATCH BASIN (CB No. 2-2B)
	4	EACH	CLEANOUT
SPECIAL	5	EACH	ROOF DRAIN DOWNSPOIUT RECONNECTION, AS PER PLAN
805	211	FOOT	3/4" WATER SERVICE TUBING
805	170	FOOT	2" WATER SERVICE TUBING
805	2	FOOT	GROUND MOUNTED SPIGOT BOX
915	2	EACH	CLEANOUT
918	160	FOOT	6" SANITARY CONNECTION SERVICE PIPE
SPECIAL	1	LUMP	SITE LIGHTING, COMPLETE
207	765	FOOT	PERIMETER FILTER FABRIC FENCE
207	19	EACH	INLET PROTECTION
SPECIAL	1	EACH	STABILIZED CONSTRUCTION ENTRANCE
SPECIAL	1	EACH	CONCRETE WASHOUT
614	1	LUMP	MAINTAINING TRAFFIC
623	1	LUMP	CONSTRUCTION LAYOUT STAKES
624	1	LUMP	MOBILIZATION
ALTERNATE 1			
608	1837	SQ FT	4" CONCRETE WALK

DRAWN BJW
CHECKED RRB
REVIEWED DAH

ADR & ASSOCIATES, LTD.
88 West Church Street • Newark, OH 43055 • (740) 345-1921

REVISIONS
1 -
2 -
3 -

GENERAL NOTES
GENERAL SUMMARY

LICKING COUNTY LIBRARY
101 W. MAIN ST. - NEWARK, OHIO

JAN. 31, 2019
JOB #305101

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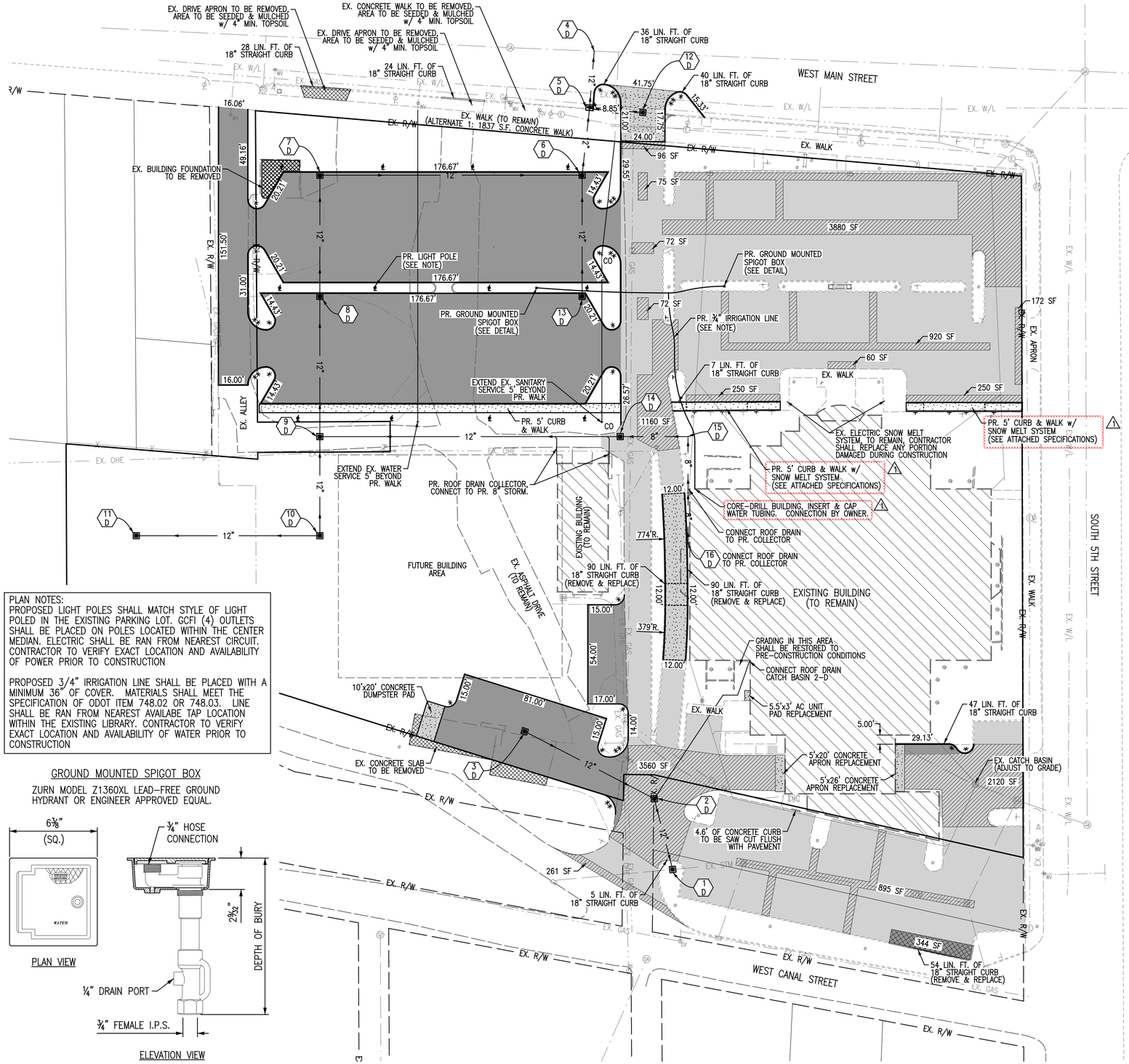
SITE PLAN

SHEET LEGEND:
* = 5' RADIUS
** = 10' RADIUS
NOTE:
ALL DIMENSIONS ARE TO EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.



PLAN NOTES:
PROPOSED LIGHT POLES SHALL MATCH STYLE OF LIGHT POLED IN THE EXISTING PARKING LOT. GCFI (4) OUTLETS SHALL BE PLACED ON POLES LOCATED WITHIN THE CENTER MEDIAN. ELECTRIC SHALL BE RAN FROM NEAREST CIRCUIT. CONTRACTOR TO VERIFY EXACT LOCATION AND AVAILABILITY OF POWER PRIOR TO CONSTRUCTION

PROPOSED 3/4" IRRIGATION LINE SHALL BE PLACED WITH A MINIMUM 36" OF COVER. MATERIALS SHALL MEET THE SPECIFICATION OF ODOT ITEM 748.02 OR 748.03. LINE SHALL BE RAN FROM NEAREST AVAILABE TAP LOCATION WITHIN THE EXISTING LIBRARY. CONTRACTOR TO VERIFY EXACT LOCATION AND AVAILABILITY OF WATER PRIOR TO CONSTRUCTION

GROUND MOUNTED SPIGOT BOX

ZURN MODEL Z1360XL LEAD-FREE GROUND HYDRANT OR ENGINEER APPROVED EQUAL.

PAVEMENT DETAIL LEGEND

1. Item 448 1 1/2" Asphalt Concrete, Surface Course, Type 1
2. Item 448 2 1/2" Asphalt Concrete, Intermediate Course, Type 2 ⚠1
3. Item 207 Tack Coat (@0.075 Gal/Sq. Yd.)
4. Item 608 4" Concrete Walk (Class C Concrete)
5. Item 452 6" Non-Reinforced P.C. Concrete Pavement, Class C
6. Item 304 4" Aggregate Base
7. Item 304 6" Aggregate Base
8. Item 254 Pavement Planing (1 1/2" Typ.)
9. Item 204 Subgrade Compaction
10. Item 609 18" Straight Curb
- EX Existing Pavement Section (To Remain)

* NOTE TO CONTRACTOR:
SCRATCH COAT MAY BE NECESSARY IN AREAS AND SHALL BE PLACED AS DIRECTED BY THE ENGINER.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:
20 CU. YD. – ITEM 448 ASPHALT CONCRETE, SUFACE COURSE, AS DIRECTED BY THE ENGINEER.

** NOTE TO CONTRACTOR:
FULL DEPTH PAVEMENT REPAIR SHALL ALSO INCLUDE PAVEMENT SAW-CUT AND PAVEMENT REMOVAL.

ALL COSTS SHALL BE INCLUDED WITH ITEM 253 – PAVEMENT REPAIR, AS PER PLAN. ⚠1

PAVEMENT OVERLAY AREA
TOP OF PAVEMENT
1* 3 EX

PAVEMENT MILLING & OVERLAY AREA
TOP OF PAVEMENT
1 3 1* 3 EX 7

NEW LIGHT DUTY PAVEMENT AREA
TOP OF PAVEMENT
1 3 2 6 8

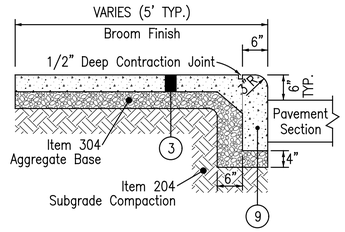
FULL DEPTH PAVEMENT REPAIR AREA**
TOP OF PAVEMENT
1 3 2 6 8

P.C. CONCRETE PAVEMENT AREA
TOP OF PAVEMENT
4 6 8

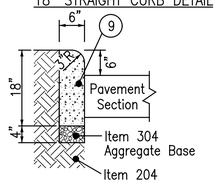
NOTE TO CONTRACTOR:
CONCRETE SIDEWALK PORTION OF DETAIL SHALL BE INCLUDED IN BID ITEM 608 – 4" CONCRETE WALK.

CONCRETE CURB PORTION OF DETAIL SHALL BE INCLUDED IN BID ITEM 609 – 18" STRAIGHT CURB.

COMBINED CURB & # WALK DETAIL



ITEM 609 18" STRAIGHT CURB DETAIL



HORIZONTAL SCALE IN FEET
0 30 60

DRAWN BJW
CHECKED JBW
REVIEWED RSB

ADR ARCHITECTURE
88 West Church Street • Newark, OH 43055 • (740) 345-1921

REVISIONS
1 – ADDENDUM No. 1 2/25/19
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SITE PLAN

LICKING COUNTY LIBRARY
101 W. MAIN ST. - NEWARK, OHIO

JAN. 31, 2019
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