NOTICE
SPECIAL MEETING OF COUNCIL

Clerk's Office, Brook Park, Ohio

September 6, 2017

TO: COUNCIL MEMBERS TROYER, MENCINI, POWERS, SCOTT, BURGIO, McDONNELL, SALVATORE, COUNCIL PRESIDENT ASTORINO, MAYOR COYNE, LAW DIRECTOR HORVATH, FINANCE DIRECTOR CINGLE

YOU ARE HEREBY NOTIFIED THAT A SPECIAL MEETING OF COUNCIL HAS BEEN CALLED FOR THE PURPOSE OF:

XXX COUNCIL MEETING _____ CAUCUS MEETING

_____ EXECUTIVE SESSION _____ OTHER (Specify)

Such special meeting will accordingly be held on TUESDAY, the 26th day of SEPTEMBER, IMMEDIATELY FOLLOWING THE REGULAR CAUCUS MEETING, at the place of holding regular meetings. (*Refer to Rules of Council, No. 4, if applicable.)

ROLL CALL OF MEMBERS:

PLEDGE OF ALLEGIANCE

THIRD READING OF ORDINANCES AND RESOLUTIONS:

SEE ATTACHED SHEET FOR LEGISLATION TITLES:

ADJOURNMENT:

Mayor	Date 9/6/17	Time 12:15pm
Clerk of Council	Date 9/6/2017	Time 12:20pm

THIRD READING OF ORDINANCES AND RESOLUTIONS:

1. AN ORDINANCE AUTHORIZING AND APPROVING THE MAYOR TO ENTER INTO A PERSONAL SERVICES CONTRACT WITH PRO ONCALL FOR PROFESSIONAL SERVICES AND DECLARING AN EMERGENCY. Introduced by Mayor Coyne

2. AN ORDINANCE AUTHORIZING AND APPROVING THE MAYOR TO ENTER INTO A PERSONAL SERVICES CONTRACT WITH VIASOUND FOR PROFESSIONAL SERVICES AND DECLARING AN EMERGENCY. Introduced by Mayor Coyne

3. AN ORDINANCE AUTHORIZING AND APPROVING THE MAYOR TO ENTER INTO A PERSONAL SERVICES CONTRACT WITH CUSTOMIZED PHONE SYSTEMS, INC. FOR PROFESSIONAL SERVICES AND DECLARING AN EMERGENCY. Introduced by Mayor Coyne

4. AN ORDINANCE AUTHORIZING AND APPROVING THE MAYOR TO ENTER INTO A PERSONAL SERVICES CONTRACT WITH BUILDING TECHNICIANS CORP. FOR PROFESSIONAL SERVICES AND DECLARING AN EMERGENCY. Introduced by Mayor Coyne

5. AN ORDINANCE AUTHORIZING THE CONSULTING ENGINEER TO PREPARE PLANS AND BID DOCUMENTS AND THE MAYOR TO ADVERTISE FOR BIDS AND ENTER INTO A CONTRACT FOR THE ADMINISTRATION PARKING LOT PROJECT AND DECLARING AN EMERGENCY. Introduced by Mayor Coyne

6. AN ORDINANCE AUTHORIZING THE MAYOR TO HIRE INSPECTOR(S) FOR THE ADMINISTRATION PARKING LOT PROJECT AND DECLARING AN EMERGENCY. Introduced by Mayor Coyne

CITY OF BROOK PARK, OHIO

ORDINANCE NO: _____

INTRODUCED BY: MAYOR COYNE

AN ORDINANCE
AUTHORIZING AND APPROVING THE MAYOR TO ENTER INTO
A PERSONAL SERVICES CONTRACT WITH PRO ONCALL
FOR PROFESSIONAL SERVICES
AND DECLARING AN EMERGENCY

WHEREAS, Council deems it necessary for the City to enter into a contract with a specialist in order to provide for the purchase and installation of a municipal telephone system to be installed in our buildings; and

WHEREAS, the City advertised for proposals for a municipal telephone system and held a proposal meeting which consisted of a walk-through of all City buildings; and

WHEREAS, seven vendors attended the mandatory meeting and walk through, but only two vendors submitted a proposals; and

WHEREAS, a communications team consisting of Jen Sinatra, Human Resource Commissioner, Sergeant Jim Stopiak and IT Consultant Zach Ellis chose PRO OnCall as the best provider for the City's telephone system, as set forth herein as Exhibit "A;" and

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: That the Mayor is hereby authorized and directed to enter into a contract with PRO OnCall in order to purchase a new telephone system that would be provided and installed in all City buildings.

SECTION 2: That the funds for the purpose of the aforesaid expenditure have been appropriated or to be appropriated and shall be paid from the General Capital Improvement Fund No. 401 in the amount of $100,878.07.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings

open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason that Council deems it necessary for the Mayor to enter into said contract with PRO OnCall without undue delay; therefore provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: _____

_____
PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

I HEREBY APPROVE THE WITHIN INSTRUMENT AS TO LEGAL FORM AND CORRECTNESS

_____
DIRECTOR OF LAW

_____
DATE

City of Brook Park ❖ Thomas J. Coyne Mayor
6161 Engle Road
Brook Park, Ohio 44142
Phone: 216-433-1300 ❖ Fax: 216-433-1511
❖ www.cityofbrookpark.com

memo

To: Thomas J. Coyne, Jr., Mayor

From: Communications Team (Jen Sinatra, Human Resource Commissioner; Sergeant Jim Stopiak and IT Consultant Zach Ellis)

Date: August 29, 2017

Re: Telephone RFP recommendation

History:
On July 2, 2017 and again on July 6, 2017, a Public Notice was issued in the Cleveland Plain Dealer requesting a proposal for a municipal telephone system. As noted in the RFP advertisement, a mandatory pre-proposal meeting took place in Council Chambers on July 11, 2017. Seven vendors attended the mandatory meeting and subsequent walk through of all City buildings. Following the mandatory meeting, vendors were encouraged to submit questions via email. All questions received and the responses were copied to all seven vendors so everyone had identical information.

Proposals were due no later than noon on August 1, 2017. Only two vendors, PRO OnCall Technologies and Warwick Communications, submitted proposals. Both bids lacked certain required information so our team reached out to both vendors for a second meeting; these meetings were held on August 10th (separate times for each vendor). Sergeant Stopiak and Zach Ellis walked PRO OnCall through our buildings again the morning of August 15th. Warwick was walked through by Sergeant Stopiak and Zach Ellis in the afternoon of August 15th. Final amended bids were due by noon on August 21st.

Recommendation:
Based on a 5 point rating system, the graph below shows total points received from Sergeant Stopiak and Zach Ellis's evaluation. Both vendors are excellent but based on all criteria as outlined below, the team feels PRO On Call is the best solution for the City of Brook Park's telephone system.

	PRO OnCall	**Warwick**
Price	10	8
Format/compliancy with RFP process	10	10
Equipment	10	8
Maintenance, support, & warranties	9	9
Suitability of needs	10	9
Totals	**49**	44

Considerations for these ratings follow:

EXHIBIT A

Price: Including the required $5,000 contingency plus maintenance, PRO OnCall's total is $98,382.46 and Warwick came in at $99,996.54 – a difference of $1,614.08. These prices exclude the new City Hall wiring which will be done by another vendor.

Format/compliancy with RFP process: Both PRO OnCall and Warwick complied with the process. The team feels both met this request.

Equipment: The team rated each vendor based on hardware, layout and type of equipment as well as reputation of equipment. The team feels confident in both companies' hardware. Layout of equipment rated better for PRO OnCall , particularly in the Service garage because PRO OnCall uses a device to plug into the network port that interfaces their digital phones to the network. This type of system is more localized and scalable so modifications, additions, deletions, etc., require only a network port. Warwick will require the installation of a control unit which is less favorable. Both systems have solid reputations in the industry.

Maintenance, support and warranties: Both vendors cover maintenance over a five year period, as requested. Warwick charges $2,702.70 (a 12% discount if prepaid with initial purchase), for a five year total of $10,810.80. PRO OnCall has a rate of $8,000.00 total or $2,000.00 per year (for 4 years as the first year is already built into the total contract). Therefore, a difference of $2,810.80 making PRO OnCall the more affordable of the two.

Suitability of needs: Both systems and both vendors are well suited for this new telephone system.

Municipal Telephone System

Mandatory pre-proposal meeting **7/11/2017** **9:00 AM**

Name	Company Name	Street Address	City	State	Zip	Telephone Number	Email Address
Russ Wurst	Tele-Solutions Inc	6001 Southern Blvd	Boardman	OH	44512	440-237-0227	RSWurst@Tele-Solutio
John Gillespie	Ro On Call	5145 Brecksville Rd	Richfield	OH	44286	440-746-3672	johngillespie@roonca
Jack Yard	Business Connexion	162 Main St	Wadsworth	OH	44281	330-335-7276	jack@BCSI.com
Steve Leopold	Warwick	405 Ken Mar	Broadview Hts	OH	44147	216-787-8300	Sleopold@warwick
Jim Auer	Warwick	405 Ken Mar Ind	Broadview Hts	OH	44147	216-787-6300	jauer@warwick
Gary Gatzke	On Technology Partners	7100 E Pleasant Ave #120	Cleveland	OH	44103	216 920 3100	ggatzke@ontechpartners.com
Tim Greaves	Avaya	5811 Benjamin St. SW	Canton	OH	44706	5132288057	tjgreaves@AVAYA
* Jerry Black	MVD Connect	5188 Cox Smith Rd	Mason	OH	45040	5134441015	Jerry.Black@mvd
* Mark Kandel				OH		4405707127	MK1898@ATT.com

Summary - City of Brook Park Recreation Center/City Hall 8/21/2017

Hybrid Configuration

City Hall

iPECS Base System	1	$45,558.92	$45,558.92
Voice Mail Transcription Service (Monthly Per User)	0	$18.41	$0.00
iPECS Call Recording	0	$4,782.25	$0.00
iPECS Call Accounting	1	$4,508.45	$4,508.45
POCT 5-yr Labor/Maintenance Plan	1	$8,000.00	$8,000.00
Total Purchase Price			$58,067.37
Safety			$23,860.82
Service			$11,454.26
Total			$93,382.46
Contincency			$5,000.00
Total			$98,382.46

Premise Wiring

Recreation Center/City Hall	0	$2,758.61	$0.00
Safety Building	0	$1,137.95	$0.00
Fire Station	0	$1,954.70	$0.00
Service Building	0	$2,780.63	$0.00
Ruple Road	0	$367.08	$0.00
Total			

Grand Total

Hybrid Configuration		$98,382.46
Premise Wiring		$0.00
Purchase Price		$98,382.46
60-month Lease ($1.00 Buy-out/Zero Down)	$2,057.18	

PRO OnCall TECHNOLOGIES

AUTHORIZED DEALER iPECS AN ERICSSON-LG BRAND

8/21/2017

Hybrid Configuration

Schedule A - City of Brook Park Recreation Center/City Hall

Qty	Part Number	Description	Unit	Total
1	TKSN9115704	UCP100 CALL SERVER INC. 50 PORTS, (EXP to 199 PORTS), 30 IPEXT LICENSES, 4 CO, 2 SLT PORTS, 4 VOIP/SIP ports (EXP TO 20 PORTS) VOICE MAIL 8 CH/ 4HR (10 HR EXP OPT), (2) UC STD DESKTOP, UC MOBILE, CLICKCALL CLIENT LICENSE, 6 CH CONF BRIDGE (EXP TO , 1GB UPLINK, USB 3.0, HTML5 INTERFACE. 1 YR MAINT. 16GB USB MEM	$2,012.80	$2,012.80
2	INE 105 4739	UCP100 8 Channel VOIP License (Max 2 LIC for 20 trunk total)	$294.52	$589.04
3	INE 105 4733	UCP100 System Port Expansion License (50 Ports)	$584.60	$1,753.80
1	INE 105 4736	UCP100 IP Extension License (10 Ports)	$183.52	$183.52
1	INE 105 4737	UCP100 IP Extension License (50 Ports)	$688.20	$688.20
1	INE 105 7553	UCP100 Maintenance License for UCP100 - 5 Year - from the Start	$989.89	$989.89
1	TKSN9116501	4 PORTS LOOP START CO GATEWAY	$738.52	$738.52
1	TKSN9084802	T1/PRI	$1,567.32	$1,567.32
1	TKSN9109901	DTIM DIGITAL 24 PORT 1U GATEWAY	$1,226.92	$1,226.92
2	TKSN9116801	8 PORT SLT GATEWAY MODULE	$1,300.92	$2,601.84
1	INE 105 4718	UVM 8 CHANNEL 50 HR VOICE MAIL MODULE, EXP 16 CH, 200 HR.	$1,258.00	$1,258.00
1	INE 105 4862	UVM MEMORY EXPANSION, 50 HOURS (UP TO 3 MEM EXP PER UVM)	$362.60	$362.60
1	RPS-48V 1.25	1U 1 CHANNEL RACKMOUNT REDUNDANT POWER SUPPLY, SUPERVISED W/SYSTEM REPORTING, SUPPORTS UP TO 4 GATEWAYS, ALARM CONTACTS, VOLT/AMP METER *MICRO/MFIM50A NOT SUPPORTED	$340.33	$340.33
1	1U-GWM-RPS-PKG	1U 1 CHANNEL RACKMOUNT REDUNDANT POWER SUPPLY, SUPERVISED W/SYSTEM REPORTING, SUPPORTS UP TO 4 GATEWAYS, ALARM CONTACTS, VOLT/AMP METER, INC. 3 1U-GWM MOUNTS	$591.93	$591.93
4	1U-GWM	19" SINGLE GATEWAY RACK FOR GATEWAY AND PS	$99.90	$399.60
71	TKTU9060606	LIP-9008G 8 BTN PAPER IP PHONE, GIG SWT, BACKLIT LCD	$247.16	$17,548.36
1	TKTU9057003	LIP-9040 8 BTN 3 PAGE LCD BACKLIT IP PHONE, GIG SWT	$307.10	$307.10
2	INE 105 7985	LIP-9048DSS, 48 BUTTON DIRECT STATION SELECTION W/ PAPER UNDERLAY	$295.26	$590.52
16	INE 105 7987	LDP-9208D, 8 button digital phone w/ LCD	$133.13	$2,130.02
1	INE 105 4742	IP NETWORKING QSIG UCP100	$412.92	$412.92
1	SW8-POE-PLUS-60	8 PORT SWT W/ 7 POE & 1 UPLINK PORT 10/100 INC 60 W PWR S	$132.46	$132.46
1	SW8-RM	1U RACKMOUNT CHASSIS FOR SW8-POE-PLUS SUPPORTS 2	$21.46	$21.46
				$36,447.14
		Hardware/Software/Licensing/Software Assurance		$9,111.78
		Professional Services		$45,558.92
		Total Base System		

OPTIONAL PRODUCTS/SERVICES

Qty	Voice Mail Transcription Part Number	Description	Unit	Total
1	VOICE-CLOUD M	MACHINE TRANSCRIPTION VOICE MAIL TO TEXT, INCLUDES WAV. FILE MONTHLY	$14.73	$14.73
1	PROSVCS	Professional Services		$3.68
		Total Voice Mail Transscription Monthly Subscription		$18.41

Qty	iPECS Call Recording - 10 Users Part Number	Description	Unit	Total
1	IPCR SVR 402-DM	2.13 GHZ, 4GB, 1 TB 2U RACK MNT 1-50 AGENTS, 1-8 TRUNKS (Call Recording Server)	$1,916.60	$1,916.60
10	INE 105 4764	iPECS IP Call Recording(IPCR) AGENT LICENSE	$190.92	$1,909.20
1	PROSVCS	Professional Services		$956.45
		Total Call Recording		$4,782.25

Qty	iPECS Call Accounting Part Number	Description	Unit	Total
1	PC-SFF-J2900-RP	SMALL FORM FACTOR INTEL J2900 QUAD 4GB, 500GB, WIN 7 PRO, REPORTS + INSTALLED	$962.00	$962.00
1	INE 105 6394	iPECS Report Plus - Base reporting software, including: 100 Extension, 1 Supervisor license, and 1 Dashboard	$1,182.52	$1,182.52
1	INE 105 6395	iPECS Report Plus - Supervisor license for accessing report web server	$259.00	$259.00
1	INE 105 6397	iPECS Report Plus - 100 additional Extensions	$427.72	$427.72
5	INE 105 6402	Maintenance for iPECS Reports Plus -iPECS Reports Plus - Base Reporting Software, including 100 Extension, 1 Supervisor, 1 Dashboard	$125.80	$629.00
5	INE 105 6403	Maintenance for iPECS Report Plus - iPECS Report Plus - Supervisor license for accessing report web server	$24.42	$122.10
5	INE 105 6405	Maintenance for iPECS Report Plus - iPECS Report Plus - 100 additional Extensions	$43.66	$218.30
1	PROSVCS	Professional Services		$707.81
		Total Call Accounting		$4,508.45

Summary

iPECS Base System	1	$45,558.92	$45,558.92
Voice Mail Transcription Service	0	$18.41	$0.00
iPECS Call Recording	0	$4,782.25	$0.00
iPECS Call Accounting	0	$4,508.45	$0.00
Total Purchase Price			$45,558.92

Hybrid Configuration

Schedule A - City of Brook Park Safety Building

8/21/2017

Qty	Part Number	Description	Unit	Total
1	TKSN9115704	UCP100 CALL SERVER INC. 50 PORTS, (EXP to 199 PORTS), 30 IPEXT LICENSES, 4 CO, 2 SLT PORTS, 4 VOIP/SIP ports (EXP TO 20 PORTS) VOICE MAIL 8 CH/ 4HR (10 HR EXP OPT), (2) UC STD DESKTOP, UC MOBILE, CLICKCALL CLIENT LICENSE, 6 CH CONF BRIDGE (EXP TO , 1GB UPLINK, USB 3.0, HTML5 INTERFACE, 1 YR MAINT. 16GB USB MEM	$2,012.80	$2,012.80
1	INE 105 4739	UCP100 8 Channel VOIP License (Max 2 LIC for 20 trunk total)	$294.52	$294.52
1	INE 105 4733	UCP100 System Port Expansion License (50 Ports)	$584.60	$584.60
1	INE 105 4736	UCP100 IP Extension License (10 Ports)	$183.52	$183.52
1	INE 105 7553	UCP100 Maintenance License for UCP100 - 5 Year - from the Start	$989.89	$989.89
1	TKSN9116501	4 PORTS LOOP START CO GATEWAY	$738.52	$738.52
1	TKSN9109901	DTIM DIGITAL 24 PORT 1U GATEWAY	$1,226.92	$1,226.92
1	TKSN9116206	32 ports 19" SLT gateway 120/240 VAC US	$2,662.52	$2,662.52
1	RPS-48V 1.25	1U 1 CHANNEL RACKMOUNT REDUNDANT POWER SUPPLY, SUPERVISED W/SYSTEM REPORTING, SUPPORTS UP TO 4 GATEWAYS, ALARM CONTACTS, VOLT/AMP METER *MICRO/MFIM50A NOT SUPPORTED	$340.33	$340.33
1	1U-GWM	19" SINGLE GATEWAY RACK FOR GATEWAY AND PS	$99.90	$99.90
31	TKTU9060606	LIP-9008G 8 BTN PAPER IP PHONE, GIG SWT, BACKLIT LCD	$247.16	$7,661.96
13	INE 105 7987	LDP-9208D, 8 button digital phone w/ LCD	$133.13	$1,730.64
1	INE 105 4742	IP NETWORKING QSIG UCP100	$412.92	$412.92
1	SW8-POE-PLUS-60	8 PORT SWT W/ 7 POE & 1 UPLINK PORT 10/100 INC 60 W PWR S	$132.46	$132.46
1	SW8-RM	1U RACKMOUNT CHASSIS FOR SW8-POE-PLUS SUPPORTS 2	$21.46	$21.46
				$19,092.95
		Hardware/Software/Licensing and Software Assurance		$4,767.87
		Professional Services		$23,860.82
		Total		

Hybrid Configuration

Schedule A - City of Brook Park Service Department

8/21/2017

Qty	Part Number	Description	Unit	Total
1	TKSN9115704	UCP100 CALL SERVER INC. 50 PORTS, (EXP to 199 PORTS), 30 IPEXT LICENSES, 4 CO, 2 SLT PORTS, 4 VOIP/SIP ports (EXP TO 20 PORTS) VOICE MAIL 8 CH/ 4HR (10 HR EXP OPT), (2) UC STD DESKTOP, UC MOBILE, CLICKCALL CLIENT LICENSE, 6 CH CONF BRIDGE (EXP TO , 1GB UPLINK, USB 3.0, HTML5 INTERFACE. 1 YR MAINT. 16GB USB MEM	$2,012.80	$2,012.80
1	INE 105 4739	UCP100 8 Channel VOIP License (Max 2 LIC for 20 trunk total)	$294.52	$294.52
1	INE 105 7553	UCP100 Maintenance License for UCP100 - 5 Year - from the Start	$989.89	$989.89
1	TKSN0083102	DTIM DIGITAL 8 PORT MODULE	$694.12	$694.12
1	TKSN9116701	4 PORT SLT GATEWAY MODULE	$664.52	$664.52
1	RPS-48V 1.25	1U 1 CHANNEL RACKMOUNT REDUNDANT POWER SUPPLY, SUPERVISED W/SYSTEM REPORTING, SUPPORTS UP TO 4 GATEWAYS, ALARM CONTACTS, VOLT/AMP METER *MICRO/MFIM50A NOT SUPPORTED	$340.33	$340.33
2	1U-GWM	19" SINGLE GATEWAY RACK FOR GATEWAY AND PS	$99.90	$199.80
1	TKSN0042202	GW WALL MOUNT	$25.90	$25.90
1	TKSN9102211-T	GATEWAY POWER SUPPLY HIGH CURRENT 1.25 AMP 48VDC	$45.88	$45.88
10	TKTU9060606	LIP-9008G 8 BTN PAPER IP PHONE, GIG SWT, BACKLIT LCD	$247.16	$2,471.60
6	INE 105 7987	LDP-9208D, 8 button digital phone w/ LCD	$133.13	$798.76
1	INE 105 4742	IP NETWORKING QSIG UCP100	$412.92	$412.92
1	SW8-G-POE-PLUS-60	8 PORT SWT W/ 7 POE & 1 UPLINK PORT GIGABIT INC 60 W PWR S	$190.92	$190.92
1	SW8-RM	1U RACKMOUNT CHASSIS FOR SW8-POE-PLUS SUPPORTS 2	$21.46	$21.46
		Hardware/Software/Licensing/Software Assurance		$9,163.41
		Professional Services		$2,290.85
		Total		$11,454.26

Schedule A - City of Brook Park Premise Wiring 8/21/2017

REC CENTER/NEW CITY HALL

Qty	Part Number	Description	Unit	Total
1	CAT6 PREWIRE W/JACK	ext 4202	$192.72	$192.72
1	CAT6 PREWIRE W/JACK	4260 Maint off gym non-standard 20' ceilings	$266.13	$266.13
1	CAT6 PREWIRE W/JACK	ext 4273 Community Room non-standard 10' ceiling	$266.13	$266.13
1	CAT6 PREWIRE W/JACK	ext 4288 Cardio room	$192.72	$192.72
1	CAT6 PREWIRE W/JACK	ext 4272 non standard 20' ceiling	$266.13	$266.13
1	CAT6 PREWIRE W/JACK	Free weight room	$192.72	$192.72
1	CAT6 PREWIRE W/JACK	Mini Gym	$192.72	$192.72
5	CAT6 PREWIRE W/JACK	Basement rooms 2,3,4, Filter room, meeting room	$192.72	$963.59
1	PP-6240-BK	TRT Cat6 24-port patch panel	$174.36	$174.36
1	ICCMSHB1RS	ICC 1U Hinged Wall Mount Bracket	$51.39	$51.39
		Total		$2,758.61

SAFTY BUILDING

Qty	Part Number	Description	Unit	Total
2	CAT6 PREWIRE W/JACK	Front Lobby--Ring Down phones	$192.72	$385.43
1	CAT6 PREWIRE W/JACK	Break Room (will require wire mold)	$192.72	$192.72
1	CAT6 PREWIRE W/JACK	2nd floor conference room	$192.72	$192.72
1	CAT6 PREWIRE W/JACK	basement wall phone	$192.72	$192.72
1	PP-6240-BK	TRT Cat6 24-port patch panel	$174.36	$174.36
		Total		$1,137.95

FIRE STATION

Qty	Part Number	Description	Unit	Total
1	CAT6 PREWIRE W/JACK	Day Room	$192.72	$192.72
1	CAT6 PREWIRE W/JACK	Kitchen (will require wire mold inside 90 flate 90 25')	$275.31	$275.31
1	CAT6 PREWIRE W/JACK	Garage	$192.72	$192.72
1	CAT6 PREWIRE W/JACK	Library non standard	$266.13	$266.13
3	CAT6 PREWIRE W/JACK	Weight room, Dorm area, Loccker room non-standard across the bays	$284.49	$853.46
1	PP-6240-BK	TRT Cat6 24-port patch panel	$174.36	$174.36
		Total		$1,954.70

SERVICE BUILDING

Qty	Part Number	Description	Unit	Total
1	CAT6 PREWIRE W/JACK	Lounge non-standard 30' ceilings across builing	$284.49	$284.49
1	CAT6 PREWIRE W/JACK	CAT6 cablerun w/jack including 1 hr labor	$192.72	$192.72
1	CAT6 PREWIRE W/JACK	Foreman office non-standard 300' 30'ceilings	$376.26	$376.26
1	CAT6 PREWIRE W/JACK	Back maint office non standard---FARTHER THAN 300 METERs (run toForman Office v	$376.26	$376.26
3	CAT6 PREWIRE W/JACK	Back maint bays (3) non-standard	$275.31	$825.93
1	Lift Rental	Lift Rental (3 days)	$550.62	$550.62
1	PP-6240-BK	TRT Cat6 24-port patch panel	$174.36	$174.36
		Total		$2,780.63

RUPLE ROAD

Qty	Part Number	Description	Unit	Total
1	CAT6 PREWIRE W/JACK	4 locations	$192.72	$192.72
1	PP-6240-BK	TRT Cat6 24-port patch panel	$174.36	$174.36
		Total		$367.08

Summary

Rec Center/City Hall	$2,758.61
Safety - Police	$1,137.95
Safety - Fire	$1,954.70
Service Department	$2,780.63
Ruple Road	$367.08
Total	**$8,998.97**

Revision 2 City of Brook Park Mitel MiVoice Office Telephone Solution

This quote is based on the Mitel NJPA contract #040314-MBS

Purchase orders resulting from this quote may be written to Mitel NJPA Selling Agent

NJPA contract number 040314-MBS must be referenced on any PO resulting from this quote.

Membership and contract information is available at www.njpacoop.org

City Hall

Part No.	Description	Qty	Cust Price	Ext Price
3rd party components				
900.0509	4 PAIR TELCO PROTECTOR 130 VOLT	1	36.40	36.40
Accessories				
50006488	HX to DEI Cable 16in	1	31.00	31.00
50006504	Wall Mount Kit (HX Controller + PSU, PS-1/DEI (2)	1	155.00	155.00
Boards				
50006500	2GB Compact Flash MiVoice Office 250 NA	1	120.00	120.00
580.2100	Single Line Module (SLM-4)	1	285.20	285.20
580.2101	Single Line Mdl (SLM-8) for DEI	1	554.90	554.90
580.2304	Loop Start Mdl (LSM-4) for CS/HX	1	241.80	241.80
580.2702	Dual T1/E1 Pri TIM2 NA	1	620.00	620.00
Licences				
840.0224	IP Networking Licence	1	1,240.00	1,240.00
840.0416	MiVoice Office License - IP Phone Cat D	62	86.80	5,381.60
840.0460	UVM Port License (Pack of 4)	1	620.00	620.00
Service				
50006123EW60	Extended Warranty for 8568 NA Digital Phone	15	24.00	360.00
50006478EW60	EXT WAR 5340E IP Phone	63	38.00	2,394.00
580.1001EW60	Extended Warranty for DEI Interface	1	43.00	43.00
580.1003EW60	Extended Warranty for HX Controller	1	48.00	48.00
580.2100EW60	Extended Warranty for Single Line Module SLM-4	1	22.00	22.00
580.2101EW60	Extended Warranty for Single Line Mdl (SLM-8) for DEI	1	43.00	43.00
580.2202EW60	Extended Warranty for DDM-16 Module	1	47.00	47.00
580.2304EW60	Extended Warranty for Trunk Module LSM-4	1	20.00	20.00
580.2702EW60	Extended Warranty for Dual T1/E1 Module	1	48.00	48.00
580.3000EW60	Extended Warranty for HX Processor Module	1	48.00	48.00
Software Assurance				
54008143	SWA Std 5y MiVO250 over 32 usr [Prod.Mgmt.Apprl reqd]	1	992.00	992.00
System				
52002827	MiVo Office Digital Base Pack	1	1,112.90	1,112.90
580.1001	Digital Exp Interface (DEI)	1	558.00	558.00
901.0528	8 OUTLET STRIP 6' CORD 1RJ11 IN 2	1	18.20	18.20
Terminals				
50002824	5448 PKM FRU (48 KEY) DARK GRAY	1	254.20	254.20
50005915	PKM KIT - 48 KEY (for 85xx/53xx Phones)	1	279.00	279.00
50006123	8568 Telephone NA	15	182.90	2,743.50
50006478	5340E IP Phone	63	310.00	19,530.00
Total				37,846.70

Safety

Part No.	Description	Qty	Cust Price	Ext Price
3rd party components				
900.0509	4 PAIR TELCO PROTECTOR 130 VOLT	1	36.40	36.40
Accessories				
50006488	HX to DEI Cable 16in	1	31.00	31.00
50006504	Wall Mount Kit (HX Controller + PSU, PS-1/DEI (2)	1	155.00	155.00
Boards				
50006500	2GB Compact Flash MiVoice Office 250 NA	1	120.00	120.00
580.2100	Single Line Module (SLM-4)	2	285.20	570.40
580.2101	Single Line Mdl (SLM-8) for DEI	1	554.90	554.90
580.2304	Loop Start Mdl (LSM-4) for CS/HX	1	241.80	241.80
Licences				
840.0224	IP Networking Licence	1	1,240.00	1,240.00
840.0416	MiVoice Office License - IP Phone Cat D	38	86.80	3,298.40
840.0418	MiVoice Office License - IP Phone Cat F	2	62.00	124.00
Service				
50006123EW60	Extended Warranty for 8568 NA Digital Phone	13	24.00	312.00
50006478EW60	EXT WAR 5340E IP Phone	38	38.00	1,444.00
580.1001EW60	Extended Warranty for DEI Interface	1	43.00	43.00
580.1003EW60	Extended Warranty for HX Controller	1	48.00	48.00
580.2100EW60	Extended Warranty for Single Line Module SLM-4	2	22.00	44.00
580.2101EW60	Extended Warranty for Single Line Mdl (SLM-8) for DEI	1	43.00	43.00
580.2202EW60	Extended Warranty for DDM-16 Module	1	47.00	47.00
580.2304EW60	Extended Warranty for Trunk Module LSM-4	1	20.00	20.00
580.3000EW60	Extended Warranty for HX Processor Module	1	48.00	48.00
Software Assurance				
54008143	SWA Std 5y MiVO250 over 32 usr [Prod.Mgmt.Apprl reqd]	1	992.00	992.00
System				
52002827	MiVo Office Digital Base Pack	1	1,112.90	1,112.90
580.1001	Digital Exp Interface (DEI)	1	558.00	558.00
901.0528	8 OUTLET STRIP 6' CORD 1RJ11 IN 2	1	18.20	18.20
Terminals				
50006123	8568 Telephone NA	13	182.90	2,377.70
50006478	5340E IP Phone	38	310.00	11,780.00
Total				25,259.70

Service

Part No.	Description	Qty	Cust Price	Ext Price
3rd party components				
900.0509	4 PAIR TELCO PROTECTOR 130 VOLT	1	36.40	36.40
Accessories				
828.1771	Wall Mount Kit (HX Controller) + PSU only No DEI	1	49.60	49.60
Boards				
50006500	2GB Compact Flash MiVoice Office 250 NA	1	120.00	120.00
580.2100	Single Line Module (SLM-4)	1	285.20	285.20
Licences				
840.0416	MiVoice Office License - IP Phone Cat D	9	86.80	781.20

Service				
50006123EW60	Extended Warranty for 8568 NA Digital Phone	6	24.00	144.00
50006478EW60	EXT WAR 5340E IP Phone	10	38.00	380.00
580.1003EW60	Extended Warranty for HX Controller	1	48.00	48.00
580.2100EW60	Extended Warranty for Single Line Module SLM-4	1	22.00	22.00
580.2202EW60	Extended Warranty for DDM-16 Module	1	47.00	47.00
580.3000EW60	Extended Warranty for HX Processor Module	1	48.00	48.00
Software Assurance				
54008144	SWA Std 5y MIVO250 upto 32 usr [Prod.Mgmt.Apprl reqd]	1	496.00	496.00
System				
52002827	MiVo Office Digital Base Pack	1	1,112.90	1,112.90
901.0528	8 OUTLET STRIP 6' CORD 1RJ11 IN 2	1	18.20	18.20
Terminals				
50006123	8568 Telephone NA	6	182.90	1,097.40
50006478	5340E IP Phone	10	310.00	3,100.00
Total				7,785.90
	MiVoice Office Promo 2017 3 for2			($12,186.10)

	Grand Total		
Totals	Mitel Material		$58,706.20
	City Hall/Rec Center Cabling (see tab 2 for scope of work)	1	$16,692.33
	Miscellaneous Cable Other City Sites (see tab 3 for scope of work)		$1,020.47
	Miscellaneous Installation Items	1	$700.00
	Call Accounting Software	1	$3,806.60
	Call Accounting PC	1	$914.27
	Warwick Services (Install, Program, Train)	1	$16,100.00
	Sub Total		$97,939.87
	Performance Bond Fee 3% of Purchase Price		$2,938.20
	Total Quoted Price		$100,878.07

New City Hall Cabling Scope of Work:

1. Provide and Install (34) Dual Category 6, (Cat6), plenum-rated cables for Voice and Data.

2. Provide and Install one (1) 4 Post Open Rack in the City Hall IT Room.

3. Provide and Install two (2) 48-port Cat6 patch panel in the rack above for all Data cables.

5. Provide and Install one (1) 6-strand 62.5/125um multimode fiber optic cable from the new I.T. Room to the existing Network/Telephone Room.

7. Provide and Install one (1) 12-pair Category 3 telephone feed cable from the new I.T. Room to the existing Network/Telephone Room.

8. Includes termination, labeling and testing of all cabling.

9. Provide and install all misc. hardware required, (I.E. J-hooks, bridle rings, beam clamps, labels, velcro, tie-wraps, tape, anchors, screws, etc.).

10. Provide and Install all cable, rack, jacks, wall plates, patch panel, blocks, etc.

See pricing total on Line 119 of Tab 1 Pricing Sheet

Cable for Other City Buildings

Install one (1)data cable to a location in the Animal Control Building for an IP Phone
Install one (1) data cable to a location in the Ruple Rd. Fire Station for an IP Phone
Install two (2) voice cables to two (2) locations in the Safety Building for Digital Phones

See pricing total on Line 120 of Tab 1 Pricing Sheet

CITY OF BROOK PARK, OHIO

ORDINANCE NO: _____

INTRODUCED BY: MAYOR COYNE

AN ORDINANCE
AUTHORIZING AND APPROVING THE MAYOR TO ENTER INTO
A PERSONAL SERVICES CONTRACT WITH VIASOUND
FOR PROFESSIONAL SERVICES
AND DECLARING AN EMERGENCY

WHEREAS, Council deems it necessary for the City to enter into a contract with a specialist in order to provide for the purchase and installation of a new audio and visual system to be used in our new Council Chambers at our Recreation Center; and

WHEREAS, the City sought proposals for a new audio and visual system and held a meeting which consisted of a walk-through of the proposed new City Council Chambers; and

WHEREAS, three vendors met with the Mayor, Service Director and the Building Commissioner and each one had a walk through and submitted proposals as attached herein as Exhibit "A;" and

WHEREAS, Viasound was chosen as the best provider for the City's audio and visual system, as set forth herein as Exhibit "A;" and

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: That the Mayor is hereby authorized and directed to enter into a contract with Viasound in order to purchase a new audio and visual system that would be installed in the City's new Council Chamber, at the Recreation Center.

SECTION 2: That the funds for the purpose of the aforesaid expenditure have been appropriated or to be appropriated and shall be paid from the General Capital Improvement Fund No. 401 in the amount of $102,250.00.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings

open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason that Council deems it necessary for the Mayor to enter into said contract with Viasound without undue delay; therefore provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: _____

_____
PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

I HEREBY APPROVE THE WITHIN INSTRUMENT AS TO LEGAL FORM AND CORRECTNESS

_____
DIRECTOR OF LAW

_____
DATE

PROPOSAL COVERLETTER

PAUL HADJUK
Viasound

216-265-0006

Dear Mayor Thomas Coyne **Date: 8-25-2017**

Enclosed herein, the proposal you requested, titled: *Council Chambers Auditorium*.

I also wish to take this opportunity to thank you, together with other members of your team for the immeasurable efforts you offered in helping me draft this business proposal . I was able to come up with this proposal for the build out of your new Council Chambers.

Please be at liberty to review the proposal and highlight any necessary adjustments. I will arrange for a meeting in coming weeks at your convenience to discuss it further if needed. You can always get in touch with me if there is need for clarification or additional information.

As a Brook Park resident for 20+ years, it would be an honor to work on a project that deserves the attention it needs from one of its own. I hope we can build a strong relationship.

Sincerely,

Paul Hadjuk
Owner/Operator
Viasound

EXHIBIT
A

Overview

Brook Park is building a new City Council Chambers. This will enlarge the scale of meetings and create a new atmosphere for planning and building in this community. This needs to be brought up to date and with the ever changing technology, Viasound can bring you to the 21st century. With our multiple walk through and discussions with the Mayor, we have concluded to this proposal . Based on EST16-91

Work Scope

Two drop down motor controlled screens will be on both sides of the Dais for the Audience viewing of the content. These screens will be above the ground by 7 feet and the largest available size remaining to the ceiling will be used for maximum viewing. (approximately 150" diagonally) . Three projectors will have a 6000 lumens or higher rating. Projectors shall be WUXGA native resolution.

One drop down motor controlled screen will be for a "Movie Night" or some other event without the use of the counsel as it will be centered in the front of the auditorium. Lighting is very important to how well the quality of the image and Viasound will discuss the location of the lighting for the build out. Some fire sprinkler heads may need to be move to satisfy code and would be completed by others and not included on this proposal.

Sound reinforcement will consist of nine in-ceiling speakers or pendent speakers where no ceiling exists. Microphones attached to the Dais for each of the 11 chairs and 4 microphones for the lower seats on bases for more flexibility. All audio will be controlled off a digital sound processor with acoustic echo cancellation. One wireless lapel microphone and handheld will also be provided for a mobile speaker.

Work Scope

To control the room electronics, the use of two 10" touch screens and its main processor communicates to the system for an "easy for anyone" to use. We strive to program our systems for a "no training needed" to use the system since the touch screen will walk you trough with questions in an easy to follow format. Touch screen locations to be determined later and can have locking codes to eliminate unwanted use.

Connectivity from a laptop will be built in to the Dais with retracting cables for VGA, AUDIO, and HDMI. Two other location for connectivity can be placed anywhere in the room. A wireless system will also be provided to allow a laptop or any compatible mobile device to send images up to the projectors from the podium.

Total of 7 small 15-17" monitors will be placed in front of most of the seated positions so the counsel can view in detail what the speaker is presenting. One 42" on the face of the Dais in front of the mobile table with the same image, eliminating the need to remove connections to video equipment when moving the table.

System will reside in a single locked rack behind counsel. Connection to the Box Cast streaming device will be locked within this cabinet and controlled remotely without the ability to override. Two basic video cameras in a fixed position will be installed with a wide view of the podium and a wide view of the Dais. Power and paths for podium and other electronic locations will need to be present and provided by others not included on this quote.

A signaling light will be located on the Podium for controlling the speakers time to talk. One controller for setting the timer will be included.

Council Caucus Room to have a 65" display and HDMI and VGA connectivity under the display for simple use as well as a wireless connectivity system for more flexibility. This display will not have any part of the main system and is considered a stand alone system.

Price

Design Build Council Chamber System	$ 102,250.00

Payment Terms

Due to extreme changes in pricing and availability in some electronic products, Viasound uses a 50% deposit to secure products and to schedule work to begin. 25% Due in 30 days after beginning of installation, and balance due 30 Days after completion and sign off of completion. Because of product availability and dynamic prices in the electronic industry, prices are valid for 30 days, please verify equipment availability after 30days. In most instances, a newer model will be substituted at the same price.

Warranty of equipment with manufactures vary. Viasound will continue to make minor changes, if needed, to tweak programming to make sure for smooth operation and quality control. Installation warranty of 1 year.

Viasound

PO BOX 30204 – CLEVELAND, OH 44130

216-265-0006

Paladin

John Davidson

Paladin
7680 Hub Parkway
Valley View, OH 44125

Tel: 216-441-6500 Fax: 216-441-5150

8/15/2017
* * Quotation * *
Project Number: 43694
Brookpark City Council Chamber

Qty	Mfr-Part No.	Description

The following is our quotation to provide the turnkey installation for the Council Chamber located at Brook Park City Hall.

Sales tax is not included in this quotation but may be added if applicable.

Our quotation is based on Sketch Number SK-2 dated 7/13/17

Labor Scope:
1. Installation of all 120vac is to be provided by the customer where required.
2. Network Connections to be provided by the customer where required.
3. Any IP addresses needed are to be provided by the customer's IT Personnel.

Paladin will be responsible for:
1. Installation of all devices, cabling, and equipment.
2. System programming, testing and balancing.
3. All required owner training & documentation proposed
4. One year material and labor warranty.

This Proposal includes 2 PC's for the presenter and the Clerk.
This proposal includes 1 IPad for wireless sharing of documents.
An optional price per additional IPad has been provided if more are desired.

Qty	Mfr-Part No.	Description
		This proposal is based on using a streaming and recording device which can be done simultaneously. This proposal is based on the customer providing a storage server for managing recorded sessions. A touch screen control panel has been provided for the Clerk's control of the system presentation. If control of the system is desired on additional panels, or an IPad, additonal programming will be required and cost incurred.
		Paladin will warranty materials one year from the date of purchase, and one year labor from the date of acceptance.
		Clerk Control Panel
1	CRESTRON	10.1" Touch Screen, Black smooth
		System Controller
1	CRESTRON	3-Series Control System
		Video Preview Window on Clerk TP
1	CRESTRON	Digital Graphics Engine 100
1	CRESTRON	5-Port PoE Switch
		Video Switcher
1	Extron	10x8 Seamless 4K Scaling Presentation Matrix Switcher - Preamp O Switcher - Preamp Output w/o Amplifier and Control Processor
		Recordings and Streaming Live
1		AJA HELO Recorder/ Streamer
		Presenter Podium Connections
1	Extron	Three Input Multi-Format Switcher with Integrated DTP Transmitte DTP Transmitter and Audio Embedding - 230 feet (70 m)
		Clerk PC connections
1	MIDATLPRO	HDMI+USB OVR 2CAT5 EXTEND
1		Kramer HDMI DA
1	Extron	Primary Shelf, gray
1	Extron	Secondary Shelf, gray
2	Extron	HDMI Twisted Pair Receiver - 230 feet (70 m)
1		Denon Blu ray player
1		Tote Vision 19" Rack mount Monitor
		Council Monitors
13		LG 29" Ultra wide Monitor
12	MIDATLPRO	5M HDMI TO DVI CBL
2	MIDATLPRO	PD THIN,1-15A CIR,10 0UT W/9' CORD, FITS RACKS THAT ACCEPT 'G' POWER
		TV's
2	STAM	90-inch-class Commercial LCD TV

Qty	Mfr-Part No.	Description
2	CHIEF	LARGE DUAL ARM W/ UNIVERSAL
		Microphones- Council
1	SHURE	8-CH ACCESS POINT TRANSCEIVER
7	SHURE	DESKTOP BASE TRANSCEIVER
7	SHURE	15 Shock-Mounted Gooseneck, Cardioid, includes surface mount Pre surface mount Preamplifier
1	SHURE	4-CH NETWORK INTERFACE
2	SHURE	8-CH NETWORKED CHARGING STATION
11	AUDTEC	Cardioid condenser quick-mount gooseneck microphone with integra microphone with integral power module, phantom power only, 18.94" long
11	AUDTEC	Microphone desk stand with switch, XLRF-type in, XLRM-type out c XLRM-type out connectors
		Audience Mics
2		Shure Steerable Microphone Array
		Audio Processing Equipment
1	BSS	12 analog mic/line input, 8 analog output, networked signal processor w/ BLU link
2	BSS	8-channel analog break-in box w/ BLU link & switchable Phantom Power per channel (half rack width)
1	BSS	Rack Mount Kit for up to two BLU-BIB / BLU-BOB devices (1U)
3	EVI	4 Coaxial speaker with horn loaded Ti coated tweeter - complete tweeter - complete with back can enclosure, tile rails, and mounting ring - for 70v/100v or 8-ohm operation. Taps at 30, 15, 7.5, 3.75, and 1.88 watts (pair)
1	CROWN	Two-channel, 500W @ 4o, 70V/100V/140V Power Amplifier
1		Cable TV Tuner
		Cameras
2		Vaddio Camera
1		Vaddio Dual Rack Mount Kit
1	CRESTRON	AirMedia Presentation Gateway
1		IPAD
1	Extron	1U 9.5 Deep Universal Rack Shelf Kit
1		APC UPS 1500VA
		Rack Equipment
1	MIDATLPRO	44SP/27D WRK RACK REAR DOOR, BLACK FINISH
1	MIDATLPRO	44SP,LARGE PERF FD,UNV,BK ERK, MRK, WRK, VRK SERIES RACKS, BLACK FINISH
1	MIDATLPRO	16OUT 15A 3STGSEQ 2STGSRG
7	MIDATLPRO	2SP FLANGED ECONO BLANK POWDER COAT FINISH

Qty	Mfr-Part No.	Description	
1	MIDATLPRO	FEB1 1SP FLAT - With Paladin Logo	
2	MIDATLPRO	1SP RACKSHELF 11DP	
1	MIDATLPRO	3SP ANODIZED DRAWER	
1		Double Sided Clock with ceiling mount	
2		PC	
1		Podium	
		Cables	
1	FSR	HDMI Male to HDMI Male Plenum (23M or 75 Cable)	
14	MIDATLPRO	6FT HDMI HS W ETHERNET CB	
4	MIDATLPRO	6FT CAT6 SNAGLESS UTP CAB	
300	WESPENWIR	4PR 23AWG SHLD CAT 6A CMR	
500	WESPENWIR	2 COND. 22 (7X30) BARE SHLD CMP	
300	WESPENWIR	2 COND 16 (19X29) BARE CMP	
200	WESPENWIR	2 COND. 18 (7X26) BARE CMP	
1000	WESPENWIR	CATEGORY 6 CMR 4 PAIR	
300	WESPENWIR	RG-6 18 SOLID BARE CATVP	
1		Termination Hardware	
		Caucus	
1	STAM	60-inch-class Commercial LCD TV	
1	CHIEF	Micro-Adjust Tilt Wall Mount, Large	
1	STEAUD	50w x 1 @ 70 / 100v	
1		A/V Wall Plate WESCO-PCG1796EPB	
2	EVI	4 Coaxial speaker with horn loaded Ti coated tweeter - complete tweeter - complete with back can enclosure, tile rails, and mounting ring - for 70v/100v or 8-ohm operation. Taps at 30, 15, 7.5, 3.75, and 1.88 watts (pair)	
1		Gefen Digital to analog audio converter	
100	WESPENWIR	2 COND 16 (19X29) BARE CMP	
1	MIDATLPRO	15ft SELECT IN WALL HDMI	
1		Installation Hardware	
		Mounting Devices	
		Programming	
		System Testing	
		CAD Drawings and User Manual	
		Customer Training	
		System Subtotal (Less Tax)	**124,521.10**
		Option Add IPAD	
1		IPAD	
		Add IPAD Per unit (Less Tax)	**667.00**

Qty	Mfr-Part No.	Description

By signing below, I acknowledge that I have read and give authorization to proceed with this quotation. I also understand that this signature does not take the place of a Purchase Order and in some cases, one will still be required.

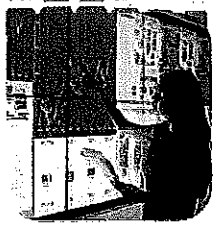
This * * Quotation * * is Valid for 90 Days.

_____ / _____

Authorized Signature Date

_____

Print Name / Title



High Performance Solutions for

Audio, Video, Sound and

Communication Technologies

AUGUST 8, 2017

City of Brook Park
Council Chamber Audio and Visual System

SoundCom SYSTEMS

SoundCom SYSTEMS

August 8, 2017

Mayor Thomas J. Coyne
City of Brook Park
19065 Holland Road
Brookpark, OH 44142

PROPOSAL

COUNCIL CHAMBER AUDIO AND VISUAL SYSTEM UPGRADE

Please accept this letter along with the additional information enclosed within this proposal as an introduction to SoundCom Systems. This is a valued opportunity for SoundCom and let me start by saying that we would like to earn your business.

We have been performing comparable work for over 40 years and are proud to call many of the region's top performing companies our clients. We have completed countless projects over the years including hundreds that integrate sound, video, and communications systems for a wide range of clients.

In fact, we have recently deployed comparable council chamber solutions for clients in the region including City of Lakewood, City of Oberlin, Cuyahoga County Headquarters, City of Westlake, City of Beachwood, City of Brunswick, and more, just to name a few.

Our highly trained and certified staff is singularly focused on delivering world-class sound, video, and specialty communications solutions with an acute attention on quality and service.

On behalf of our over 190 full-time employees, I would like to personally thank you for the opportunity to continue to earn your business and we look forward to discussing this project with you in greater detail soon.

Please feel free to contact us with any questions.

Sincerely,

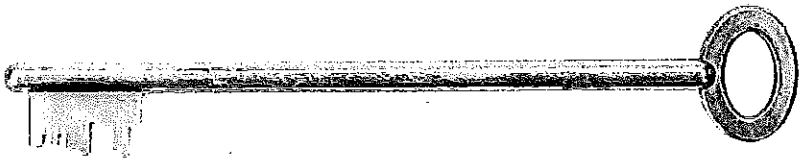
Richard Threadgill
Sr. Account Executive

SoundCom SYSTEMS

SoundCom is ranked among the top 25 systems integration firms in the U.S. by Systems Contractor News, and has ranked among the top 50 since 2004.

About SoundCom Systems

For over 40 years, SoundCom Systems has been providing cutting-edge sound, video, and communications solutions for businesses and institutions of nearly every size. Headquartered in Cleveland, Ohio with offices in Detroit, Pittsburgh, Columbus, Grand Rapids, Flint, Lansing, and Cincinnati, SoundCom has the knowledge, experience, and scalability to meet virtually any project scope and deadline with an attention to detail and focus on quality that is unrivaled in the industry.



COMPLETE TURN-KEY SERVICES

As a full-service integration firm, SoundCom offers complete turn-key services for any project of any size including:

- Consulting & Design
- Engineering & CAD
- Shop & Fabrication
- Project Management
- Installation
- Programming
- Training
- Technical Support

WE'RE ALWAYS OPEN

SoundCom prides itself on providing our customers with world-class support before, during, and after the sale. Our service department is never closed delivering critical services to customers when it is needed most.

We're here when you need us!
24/7/365

CERTIFIED INDUSTRY EXPERTS

SoundCom's engineering and technical teams are some of the most experienced and well-trained in the industry. Our engineering department collectively has over 130 years of experience and our installation and service teams have an average tenure over 10 years with SoundCom and over 230,000 hours of available man-power annually. Our technical staff carries many of the industry's major certifications so you can be assured that your project will be done right and on-time.

Detailed Project Narrative

SOLUTION OVERVIEW

The City of Brook Park, OH is moving their council chamber from City Hall to the Recreation Center. As part of this move, the City is looking to upgrade the audio visual systems as the current systems are outdated and will not meet the needs of the new space.

This proposal includes a base system that includes a new projection system, sound reinforcement, a control system, and options to add a camera production and streaming component.

This design is based on a recent system SoundCom installed for the City of Lakewood as the space and functionality needs are nearly identical.

COUNCIL CHAMBER AUDIO AND VISUAL SYSTEM UPGRADE

SoundCom will provide and install three (3) single-chip DLP laser-phosphor projectors, each featuring a 1,920 x 1,200 resolution at 6,500 lumens of light power, using ceiling mount brackets specific to this application. These will provide bright, crisp images for all audience members.

These projectors will operate maintenance-free for 20,000 hours and do not require replacement lamps or filters over the life of the projector.

Two of these projectors will project on to a pair of motorized projection screens located just behind the dais on the left and right sides so that the audience can see any content being shown in the room. Each screen will be 87.5" tall and 140" wide (165" diagonal). They will be surface mounted to the ceiling.

The third projector will project to a 165" diagonal motorized projections screen located in front of the dais in the center of the room to be used for alternative meetings and events (planning meetings, public events) when the dais is not being used. This screen will also be surface mounted.

Each projection screen will include a low voltage controller and a quiet motor.

Connection to the projectors will be possible in various ways. Two (2) laptop connections will be available at the dais, each containing a VGA and an HDMI connection. These connections will be inside of a "cable cubby", a recessed box with a movable lid to conceal these connections when not in use.

A portable, lockable lectern will be provided by SoundCom that will also have a Cable Cubby with similar inputs. The lectern will also have a digital document camera that will enable paper documents to be shared on screen.

This proposal assumes the City will provide a PC dedicated to the system which will be installed in in the dais in the room. This PC is to be equipped with a keyboard and mouse and is assumed to be placed on the City's data network (network drop at dais location by others).

Additionally, a wireless presentation gateway pod will be provided that will turn the council chamber into a Bring-Your-Own-Device (BYOD) space. This device will allow any user with access rights (or multiple users) to instantly connect a mobile device on screen from anywhere in the room without having to connect any wires. This device supports portable PC's running Windows, portable Mac computers, iOS devices, and Android devices.

Because the projectors are intended mostly for an audience view, this proposal includes six (6) 22" high definition preview monitors to be installed on the vertical façade of the dais so that council members seated in the upper dais can see any content that is being projected on the large screens.

For the lower dais, a floor standing 43" flat panel display will be placed on a portable, low-profile confidence monitor cart. The same content being shown on the projections screens will be shown on all these displays as well.

Twelve (12) high-quality gooseneck microphones will be installed on the upper dais using shock mounts specific to this microphone model. Each microphone measures 15.75" in length and features an illuminated LED ring to indicate the muted or live status of the microphone. Each microphone will be equipped with a simple mute button mounted in the connection plate on the dais. This button can be configured to mute or unmute the microphone, or the can be configured as pus-to-talk.

Eight (8) of the same gooseneck microphones will be placed at the planning commission table using tabletop bases instead of installed shock mounts. This allows for placement flexibility as these same microphones can be moved to the main floor level for other events.

Two (2) 4-microphone snake cables will be provided to support a variety of configurations in the room for various meetings. These cables will connect to two (2) microphone plates to be installed in the face of the stage area.

A similar gooseneck microphone, 19.70" In length, will be installed in the lectern.

A wireless hand held and wireless lavalier microphone will be provided to give presenters the opportunity to remain engaged while moving about the room.

Audio signals will be managed using a powerful audio digital signal processor (DSP). The DSP will be programmed by SoundCom to provide the clearest, most robust audio the room will physically allow through careful configuration of the dynamic parameters that exists in this powerful, software-driven signal processor.

This DSP will also allow audio conference calls to take place in the room with advanced acoustic echo cancellation for every microphone channel.

A series of pendant speakers will be installed above the dais area to handle voice reinforcement during council meetings. These speakers will be processed using a mix/minus to eliminate feedback when council members are speaking.

Additional ceiling speakers will be installed throughout the rest of the room to cover the audience areas.

The entire system will be controlled using a 10" wired color touch panel to be installed on the dais. This control panel can also be placed on the lower dais or on the main floor as needed.

The touch panel will be fully customized with language, color, logos, and text at the direction of the City of Brook Park. The touch panel will feature a workflow created for ease of use, with the most commonly used features readily accessible and will use automation sequences where appropriate to further streamline the overall system operation.

ADDITIONAL NOTES

The system head end will be assembled in a new equipment rack enclosure, tested and configured prior to delivery to the project site. This is a normal practice for SoundCom, insuring a more precise installation and reducing down-time of our customers' resources. This equipment rack will be at the back of the stage level area.

The system head end will have its own power distribution system, including an uninterruptable power supply for critical system components. The enclosure will be properly ventilated and will include exhaust fans to reduce head and extend component life.

The equipment rack will be built on casters to reduce floor damage during the installation or subsequent maintenance, and two (2) drawers will be built-in for the storage of small items (wireless microphones, cables, documentation, etc.).

SoundCom SYSTEMS

CAMERA AND PRODUCTION SYSTEM OPTION

This option will add a 3-camera production system used primarily during council meetings. With acceptance of this option, three (3) robotic, high-definition cameras will be installed on the council chamber ceiling using a bracket specific to this camera model.

Each camera features high quality imaging technology for the reproduction of color and detail in production environments. These cameras also feature Tri-Synchronous Motion, which allows each camera to Pan, Tilt, and Zoom simultaneously, creating a smooth transition when recalling camera position presets.

A camera control console will be provided to give the system operator the ability to create a quality video production for archiving or live streaming. Camera shots and shared content can be selected, and recalled by fading or swiping into the live shot. Camera positions can be preset, easily recalled at the touch of a button.

A Marshall Electronics 17" monitor will be installed on the equipment rack to provide the operator a clear image of each available camera or content shot through an intuitive layout of preview and live video windows.

This system includes a high-definition output feed which can be provided to a new recording and/or streaming encoder along with feeding a local cable access channel.

SoundCom SYSTEMS

General Project Notes

GENERAL PROJECT NOTES

Unless otherwise noted within this proposal, all on-site labor services are assumed to occur during normal business hours, Monday through Friday, excluding major holidays.

NETWORK NOTES

Unless otherwise noted within this proposal, any required data network drops are assumed to be existing or provided by others, at locations as directed by SoundCom.

This proposal assumes the client's IT staff will coordinate network access and configuration closely with SoundCom field technicians and engineers. This includes configurations for remote access where possible.

If applicable, additional pre-installation coordination with the client's IT staff may be required for specialized system integrations involving video conferencing, audio conferencing (VoIP), control systems, streaming, digital signage, and other similar technologies.

Systems requiring a custom control system are installed on a dedicated network/VLAN utilizing network switches provided by SoundCom, unless otherwise noted.

ADDITIONAL NOTES \ EXCEPTIONS

The City of Brook Park will provide any required conduit, rough-in, data drops, AC power, and any patching and painting or carpentry work subsequent to the installation.

This proposal assumes the existing dais is being moved to the new location and that all microphones, displays, and supporting equipment and distribution wire can be installed within the dais as required.

FIRST EVENT SUPPORT & TRAINING

SoundCom will provide extensive on-site, hands-on training for all staff members as needed. This includes providing easy to read and follow quick reference materials to aide users with operation of the system.

Additionally, to ensure that the first major public use of the new system goes smoothly, SoundCom will attend the event with qualified technical staff to make sure the system performs as expected and that any issues are immediately resolved.

SoundCom Systems Custom Design Proposal

SoundCom is proud to present this proposal for the City of Brook Park.
This summary is intended to provide a simple and brief overview of our approach to the project and is supplemented with much more detailed information including a detailed narrative, scope definition, warranty and support details, and SoundCom's qualifications relative to this project along with other supporting documentation.

August 8, 2017

SoundCom Proposal # **60449**

Client
City of Brook Park
19065 Holland Road
Brookpark, OH 44142

Project
Council Chamber Audio and Visual System Upgrade

All Prices USD

Item	Description	Price
Council Chamber	Council Chamber Audio and Visual System Upgrade	$103,840.00

PROPOSAL TOTAL $103,840.00

THIS PROPOSAL ASSUMES THE CLIENT IS TAX EXEMPT OR WILL SELF-PAY ANY APPLICABLE TAX
IF THIS PROJECT IS TAX EXEMPT CUSTOMER IS REQUIRED TO SUBMIT PROOF OF TAX EXEMPT STATUS

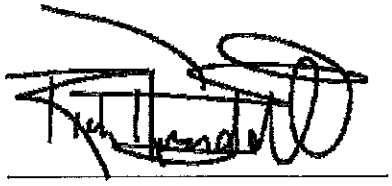
OPTIONS

Item	Description	Amount
Camera Production System	Production Camera System Option (ADD)	$32,595.00

Payment Terms:
30% Down Payment due upon receipt of PO
60% Progress Billed Based on Implementation of System – Invoiced with Net30 Day Terms
10% Certification of System & System "Go-Live" – Invoiced with Net30 Day Terms

Proposal Originating Office
SoundCom Systems - Office
227 Depot St.
Berea, OH 44017
(440) 234-2604

Proposal Created By:
Richard Threadgill
Sr. Accound Executive
rthreadgill@soundcom.net
Ext. 1407



This proposal is subject to SoundCom System's Standard Terms & Conditions of Sale enclosed within this proposal and available online at http://www.soundcom.net/info/terms-conditions.asp

SoundCom SYSTEMS

Scope Overview

Every project is unique and we strive to deliver clear definitions of scope for every project. Our project managers are highly trained to clearly understand where scope breaks occur between trades on any given project so that the installation runs smoothly and on time while keeping the customer accurately informed, removing any mystery about our delivery commitment.

Engineering

DRAWINGS

All drawings are engineered in AutoCAD and delivered in electronic (PDF) format and are archived at SoundCom.
**All D/C drawings require accurate floorplan files (backgrounds) delivered to SoundCom in AutoCAD format (DWG with applicable X-refs). ** Specialty detail drawings may require source files supplied by a third-party.*

		SoundCom Systems	N/A
Functional	Engineered technical drawing(s) showing the schematic design of the system including device connections, signal types, and equipment parts.	☒	☐
Device & Cable* D/C	Engineered technical drawing(s) detailing the wiring and locations of all devices and equipment racks outlined on a floor plan.	☒	☐
Rack Elevation	Engineered technical drawing(s) detailing the layout of any equipment racks, cabinets, lecterns, etc.	☒	☐
Plate Details	Engineered technical drawing(s) detailing any connection plates for the project to be installed in the field or on any equipment rack, including specific plate labeling.	☒	☐
Specialty Details**	Engineered technical drawing(s) detailing any custom or specialty work, including but not limited to custom mounts, rigging, console design, lectern layout, furniture, etc.	☐	☒
Trade Coordination	Engineered technical drawing(s) most often detailing conduit, rough-in, blocking, etc. requirements for the project for use by other trades in coordination with the system(s) being provided by SoundCom.	☐	☒
As-Builts	A complete set of all SoundCom engineered drawings reflecting the complete system as installed, which may have varied from the originally engineered set of drawings based on unique changes/adds/deletions during the installation period.	☒	☐

Documents

All engineering documents are delivered in electronic (PDF) format and are archived at SoundCom.

Submittals	A complete set of data/cut-sheets for all primary/major pieces of equipment being supplied for the project showing brand/make & model along with the detailed technical specifications submitted prior to project deployment.	☐	☒
O/M's	A complete set of manufacturer's operation and/or owner's manuals for all primary/ major pieces of equipment submitted during the closeout period of the project.	☐	☒

SoundCom SYSTEMS

Scope Overview: Installation

FIELD INSTALLATION			SoundCom Systems	E.C.	G.C.	Owner	Existing	N/A
Demolition	Removal of any existing equipment and/or wire as specified and required for the project. Any wire and/or equipment to be reused must be properly protected by others during demo.		☐	☐	☐	☒	☐	☐
Power	Provide power as specified at all required locations including equipment racks and field devices.		☐	☐	☐	☒	☐	☐
Rough-In	Provide rough-in as specified at all required locations including equipment racks and field devices, plate locations, floor boxes, etc.		☐	☐	☐	☒	☐	☐
Conduit	Provide conduit with pull string as specified at all required locations including equipment racks and field devices.		☐	☐	☐	☒	☐	☐
Backboxes	Backboxes as specified at all locations as required for the project.	Provide Install	☐ ☐	☐ ☐	☐ ☐	☒ ☒	☐ ☐	☐ ☐
Floor Boxes	Floor boxes as specified at all locations as required by the project.	Provide Install	☐ ☐	☐ ☐	☐ ☐	☒ ☒	☐ ☐	☐ ☐
Table Interfaces	Specialty interface boxes and/or "cubbies" designed to accommodate AV cabling connections, and other cables including data and AC power.	Provide Cut Install	☒ ☐ ☒	☐ ☐ ☐	☐ ☐ ☐	☐ ☒ ☐	☐ ☐ ☐	☐ ☐ ☐
Lift/Scaffolding	If necessary, provide a lift and/or scaffolding capable of safely reaching and lifting required personnel and equipment to correct mounting/wiring positions.		☐	☐	☐	☐	☐	☒
Provide Wire	Provide all cable for complete and functional system as required for the project.		☒	☐	☐	☐	☐	☐
Pull (Install) Wire	Pull (install) and tag (label) all cable for complete and functional system as required for the project and as directed by D/C drawings.		☒	☐	☐	☐	☐	☐
Blocking	Provide appropriate blocking and/or structural support for wall mounted equipment cabinets and/or specialty field devices like LCD flat panels, large format speakers, projectors, etc. as specified and required by the project.		☐	☐	☐	☐	☐	☒
Cutting & Patching	Cutting, patching, and painting of walls and/or ceilings, including ceiling tiles and grid.		☐	☐	☐	☒	☐	☐
Install Field Devices	Install all field devices including, but not necessarily limited to speakers, cameras, projectors, screens, displays, TV's, etc. Exceptions? ☐ Yes (if YES, see "General Project Notes") ☒ No		☒	☐	☐	☐	☐	☐
Install Field Plates	Install all connection field located plates as specified and required for the project.		☒	☐	☐	☐	☐	☐
Install Headend	Install system headend which could include floor standing equipment racks, wall mounted equipment cabinets, plywood backboard mounted headends, etc.		☒	☐	☐	☐	☐	☐

SoundCom SYSTEMS

Scope Overview: Specialty Services

SHOP & FABRICATION		SoundCom Systems	E.C.	G.C.	Owner	Existing	N/A
Rack Assembly	The assembly of, and equipment loading of any and all equipment racks, cabinets, lecterns, podiums, and/or furniture as required for the project. ☐ On-Site ☒ Off-Site	☒	☐	☐	☐	☐	☐
Rack Plate Fab	The fabrication and labeling of any connection plates to be installed in an equipment rack, cabinet, lectern, podium, and/or furniture as required for the project.	☒	☐	☐	☐	☐	☐
Field Plate Fab	The fabrication and labeling of any connection plates to be installed in the field including wall and floor plates.	☐	☐	☐	☐	☐	☒
Setup & Programming							
System Configuration	Configure and setup system for proper operation as coordinated with customer and/or specifications.	☒	☐	☐	☐	☐	☐
System Programming	Develop and test any custom system programming for proper operation as coordinated with customer and/or specifications.	☒	☐	☐	☐	☐	☐

TESTING & COMMISSIONING		SoundCom Systems	N/A
Testing	Test complete system and verify operation meets specifications as required by project. Provide documentation of testing results.	☒	☐
System Commissioning	Verification of system functionality and completeness of system configurations including software version verification operational accuracy.	☒	☐
Tune (EQ)	Tune system for optimum performance as specified and/or as project requires.	☒	☐
Configuration Backup	Backup and archive of all system programming, configuration settings, and setup files as specified and required by the project.	☒	☐

TRAINING & SUPPORT		SoundCom Systems	N/A
On-Site Training	Provide on-site training with key customer personnel as specified and required by the project.	☒	☐
Off-Site Training	Provide off-site training with key customer personnel as specified and required by the project.	☐	☒
Online Training	Provide online training, either self-paced or instructor-guided as specified and required by the project.	☐	☒
Training Materials	Provide comprehensive user training materials, typically in electronic (PDF) format, as specified and required by the project. ☐ Video Recording ☒ Quick Ref. Guides ☐ Training Manual	☒	☐
Event Support	Provide on-site "first use" support with qualified technical and/or engineering personnel.	☒	☐

SoundCom SYSTEMS

Scope Overview: Crestron Programming

The system(s) included in this proposal will utilize a custom built Crestron control system designed specifically for this application with custom graphics and functionality engineered for easy operation.

CRESTRON

Crestron Control System

CONTROL INTERFACES		SoundCom Systems	N/A
Keypads	Crestron keypads are simple "hard button" panels of various sizes and colors typically used in very simple room applications.	Wall ☐ Tabletop ☐	☒
Touch Screen	Touchscreens come in various sizes and formats. The designs of each touch screen are completely custom built to meet the specific look, feel, and functionality requirements of the system.	Wall ☐ Tabletop ☒ Wireless ☐	☐
Mobile Device	Use of a mobile device requires the Crestron Mobile Pro application. SoundCom strongly recommends dedicating the mobile device to the system in most application uses.	iPad ☐ iPad/iPhone ☐ Android ☐	☒
PC/Mac	Often referred to as an "XPanel", allowing control of the system via a web browser on connected desktop or laptop computer.	☐	☒
STANDARD PROGRAMMING SERVICES			
Video Conferencing	Control code written for video conferencing codecs (Polycom, Cisco, LifeSize, etc.). Typical control consists of directory listing, manual dialing, privacy, and volume/mute controls.	☐	☒
Audio Conferencing	Control code written for audio conferencing systems (Polycom, Cisco, Biamp, etc.) Control consists of manual dialing, privacy, and volume/mute controls.	☒	☐
Source Selection & Routing	Control code built for controlling a DM switcher and/or control of a 3rd party switcher. Typical control consists of "audio-follows-video" routing to displays in either a room map or drop down list type of functionality.	☒	☐
Displays/Projectors & Screens	Control code built for controlling flat panel displays, LED walls, and/or projector and projection screens. All control of displays will be integrated into the system for automatic power on/off, input selection, scaling resolution, etc. depending on system operation requirements.	☒	☐
Source Equipment	Control code to operate source equipment like Blu-Ray/DVD players, decoders, etc. For sources that do not have control (such as laptop computers) a general message will be displayed on the control panel in lieu of control buttons.	☒	☐
Audio Systems	In rooms with audio reinforcement, volume/mute controls of program (video) volume and speech (reinforced audio) are provided. Individual control of specific inputs are not typically provided as these functions are handled automatically in the audio system for "normal" operation.	☒	☐
Motorized Shades*	Control of window shades. Typical control consists of blackout and solar shades in up to two (2) unique zones per room.	☐	☒
Recording & Streaming Devices	Control code of a recording and/or streaming device or system. Typical control is to start, stop, or pause recording/streaming as well as display how much recording time and/or storage space is remaining.	☐	☒
Lighting Systems*	Control code to operate a controllable lighting system. Typical control consists of emulating a local wall controller and includes four (4) preset lighting controls, and off.	☐	☒
HVAC Systems*	Control code to operate a controllable HVAC system.	☐	☒
Other	Control of other systems and or functions like window shades, air-walls, occupancy sensors, or other controllable devices.	☐	☒

3rd party interface required (not provided by SoundCom)

SoundCom SYSTEMS

Hundreds of the region's top performing companies have chosen SoundCom for their technology needs and we are proud to call all of these companies our clients.

SoundCom Systems Client List

Below is just a small listing. Upon request, SoundCom can provide detailed references specific to your project.

FERRO
GOODYEAR
ALCOA
GE
Cleveland Metropolitan School District
UPMC Life Changing Medicine
SAE International
PROGRESSIVE
Akron Children's Hospital
dunnhumby
Heinz
CALFEE
Cleveland Clinic
I-X CENTER
North Central State College
Nationwide is on your side
Sherwin Williams
University Hospitals
ddr
Nestlé
ReedSmith The business of relationships.
CapitalUniversity
The Ohio State University
MetroHealth
RPM
porterwright
MTD
Tucker Ellis LLP
Safelite AutoGlass
WORTHINGTON INDUSTRIES
EMH HEALTHCARE Expert care. Exceptional caring.
Chevron
EQT
DELPHI
MERCYHEALTH
Cleveland State University
MATERION
ORACLE
DUKE ENERGY
STERIS
Case Western Reserve University Est. 1826
GNC LIVE WELL
CLE
ORDWAY Joy. Centerstage.

SoundCom SYSTEMS

SoundCom Systems 12 Month Warranty

Today's technology and communications systems are complex, often requiring careful integration of hardware and software from a multitude of manufacturers. SoundCom engineers carefully research equipment selection and work closely with manufacturers and our installation technicians to make sure every system functions as expected.

Our installation technicians are highly-trained, experienced, and carry numerous industry certifications meeting manufacturer's installation guidelines and our industry's demanding installation standards.

Many systems require custom software development and our programmers are some of the best in the industry, keeping up with the latest trends and platforms while delivering easy to use control interfaces our customers can rely on.

Because our engineering, installation, and programming teams consistently deliver world-class quality systems for our customers, we are proud to offer an *industry-leading twelve (12) month warranty* on all SoundCom provided equipment, materials, and labor, effective upon substantial completion of the project as outlined in our standard terms and conditions.

OPEN 24 Hours

SoundCom operates 24 hours a day, 7 days a week, 365 days a year to service our customers with mission and life-critical support systems and is staffed by veteran technicians trained to troubleshoot virtually any system and situation quickly minimizing downtime.

To obtain warranty service, contact SoundCom's Service Department at +1 (800) 628-8739.

Severity	Description	On-Site Response Time
Level I Critical	**Catastrophic or total system failure** System is in a complete non-functional state.	Within one (1) business day during normal business hours.
Level II Minor	**Erratic, sporadic system performance** System is still functional, but minor problems exists.	Within two (2) business days during normal business hours.
Level III Routine	**Routine system maintenance or fixes** System is generally functional, however minor programming or firmware updates may be needed to resolve a system issue.	Within three (3) business days during normal business hours.

CUSTOMER SERVICE HOURS

While our service department operates 24/7/365, our standard service department business hours are, Monday through Friday (excluding holidays) from 8:00 AM to 5:00 PM EST.

Customers placing service calls during normal business hours will receive a phone response immediately or within two (2) hours.

Customers placing after-hours service calls will be connected with an answering service who will contact an available on-call technician. If classified as a Level I – Critical service disruption, the technician will call-back within two (2) hours and be on-site within four (4) hours*. Unless specifically requested, Level II and Level III classified service disruptions placed during after-hours periods will be responded to the next business day.

*After-hours emergency service is for Level 1 – Critical issues specific to life safety only.

Unless specifically outlined in a SoundCom Performance Maintenance Agreement, after-hours emergency service is typically limited to healthcare facilities with life-safety related systems.

SoundCom SYSTEMS

Performance Maintenance Agreement

To supplement SoundCom's standard twelve-month warranty, we are proud to offer comprehensive system Performance Maintenance Agreements (PMA) designed to maximize system uptime by proactively managing the critical components of each system.

SoundCom PMA's are ideal for mission critical systems allowing our customers to fully understand and manage their total cost of ownership while minimizing downtime and insuring their systems are always kept up to date with the latest software releases and bug fixes.

Our service department is staffed by our most senior and experienced technicians highly trained to troubleshoot and resolve system problems fast.

SoundCom PMA's include a number of enhanced services including:

- Priority Service Response
- Preventative Maintenance
- Regular System Training
- Software/Firmware Updates
- Remote Diagnostics
- Technology Refresh
- System Backup & Archive
- 24/7/365 Service Availability
- Equipment Repair/Replacement
- Loaner Equipment
- System Documentation Maintenance
- After hours Emergency Service
- On-Site Hot Spares
- Dedicated Staffing

In addition to custom agreements, SoundCom offers a number of pre-designed PMA's designed for virtually any project and budget with varying service levels and access based on the need.

These packages are available in one, two, and three year terms and can be renewed annually. Our Custom/Critical offering can even include advanced replacement of parts, on-site hot-spares, and dedicated staffing options.

	Silver	Gold	Platinum
24/7/365 Availability	☒	☒	☒
Priority Service	☒	☒	☒
Documentation Maintenance	☒	☒	☒
Scheduled Maintenance		☒	☒
Continued System Training		☒	☒
System Backup & Archive		☒	☒
Parts Repair/Replacement			☒
After-Hours Emergency Service			☒
Loaner Equipment			☒

SoundCom can provide a proposal upon customer request.

SoundCom SYSTEMS

SoundCom Systems Financial Services

SoundCom works with industry leading financial institutions to deliver flexible and scalable financing options with both traditional capital leasing programs and operating leasing options which can fit virtually any project size and type.

PNC EQUIPMENT FINANCE

PNC Equipment Finance is a recognized leader in providing equipment financing solutions to clients throughout the US and Canada. As the fifth largest bank-affiliated leasing company, with over $9 billion in lease assets, and a 30-year history serving clients of all sizes and industries.

TAMCO®

Founded in 1994, the Telecommunications Asset Management Company (TAMCO) is a highly focused financing organization which specializes exclusively on programs for business looking to acquire new communications and related technologies. TAMCO's unique value is in providing operating expense structured financing solutions with additional protection against functional obsolescence for its customers.

Capital Equipment Leasing

Services Offered	Capital Lease ($1 Buyout), and Fair Market Value Lease (FMV)
Length of Term	12-60 Months
Equipment Types	Audio, Video, Security, and Communications equipment
Install Included?	Yes
Service Agreements?	No
System Replacement Guarantee?	No
Deductible Coverage?	No
Lease Exit Options	$1 Buyout

Operating Equipment Leasing

Services Offered	TAMCO Shield
Length of Term	36-60 Months
Equipment Types	Audio, Video, Security, and Communications equipment
Install Included?	Yes
Service Agreements?	Yes
System Replacement Guarantee?	Yes
Deductible Coverage?	Yes, up to $5,000 insurance deductible coverage for natural disasters
Lease Exit Options	Renew The Lease w/Shield, Renew the Lease w/o Shield, Fair Market Value Buyout, and Return System

Comparative Analysis – Based on a $25,000 turn-key solution

	$1 Buyout Lease	TAMCO Shield	Cash Purchase
Number of Months	60	60	60
Equipment Type	AUDIO/VIDEO	AUDIO/VIDEO	AUDIO/VIDEO
Monthly Payment	$531	$525	
System Solution Price			$25,000
Present Value (PV) of Payments	$24,992	$24,709	
Residual Payment	$1		
Tax Deductions on Payments	($2,006)	($8,648)	
After Tax Interest on Cash	($2,649)	($2,649)	
Depreciation Tax Savings	($6,634)		($6,634)
Net After Tax PV Cost	*$13,704*	*$13,412*	*$18,366*
Assumed System Replacement Cost	($15,930)	$0	($12,500)
Off Balance Sheet	FALSE	TRUE	FALSE

* Assumption above based on a complete system replacement at midpoint of term. This analysis was prepared using accepted financial and accounting principles considering the "time value of money" and the following assumptions: Present Value Discount Factor = 10%, Annual Inflation Rate for Maintenance = 4%, Federal income tax rate - 35%, Straight-line depreciation - 5 years, Interest Rate on Idle Cash = 4%

SoundCom SYSTEMS

SoundCom Systems Terms & Conditions of Sale

Fees and Payment Terms

1.1 Prices and/or fees quoted by SoundCom are for acceptance within 30 days from the date of quotation and are subject to change thereafter.

1.2 Prices and/or fees quoted by SoundCom are inclusive of any taxes, levies, duties, or other governmental charges, shipping, and insurance unless otherwise specifically outlined within the quotation. If Customer is exempt from any tax, proof of exempt status is required prior to order acceptance.

1.3 Any and all taxes, levies, duties and governmental charges or other charges of any nature, present or future, imposed on SoundCom or which SoundCom has a duty to collect in connection with the sale, delivery, or use of any Products and/or Services will appear as separate line items on the invoice.

1.4 Customer understands that Customer may receive multiple invoices from SoundCom for the Products, Services and/or Support Services Customer ordered. Upon execution of each shipment and/or delivery of Products and/or Services, SoundCom will issue an invoice to Customer's address specified in the Purchase Order. Unless otherwise specifically outline within this proposal, SoundCom reserves the right to make partial shipment of products and/or services, rendering invoice(s) thereof.

1.5 SoundCom's standard payment terms are net thirty (30) calendar days from the date of invoice unless otherwise specified in the Quotation/Proposal/Contract or otherwise agreed to in writing by the parties, regardless of when the Products and/or Services are placed into service or whether ancillary commissioning or related services have been offered or performed by SoundCom. In the event Customer fails to pay SoundCom's invoice in full in due time, SoundCom shall be entitled to suspend the performance of its obligations until Customer has paid all amounts due. All overdue payments shall also be subject to late payment interest at the rate of one and one-half percent (1.5%) per month from the due date until the date when all outstanding payments have been made in full. Customer agrees to pay any third-party collection expenses, including attorney's fees, incurred by SoundCom to collect any unpaid amounts. All payments shall be made in US dollars ($USD).

1.6 All payment terms are subject to prior credit approval by SoundCom. SoundCom may reject any Purchase Order, change its credit terms, suspend performance or cancel any accepted Purchase Order, in its sole discretion when, in SoundCom's reasonable determination, Customer's financial condition or record of payment so warrants.

1.7 SoundCom reserves the right to cancel or amend any accepted Purchase Order if for any reason it becomes unable to fulfill Customer's Purchase Order. In such case, notice of SoundCom's action will be promptly given to Customer. The amendment or cancellation will be deemed accepted by Customer unless rejected by Customer within ten (10) calendar days of the date of such amendment or cancellation. If customer chooses to reject the amendment or cancellation, SoundCom may terminate the related Quotation/Proposal/Contract or Statement of Work (SOW) without further liability.

Shipment, Delivery, Transfer, and Acceptance

2.1 Title transfer, delivery and risk of loss shall be FOB ("Free on Board") Destination in accordance with Incoterms 2010 of the International Chamber of Commerce (ICC). Products are deemed accepted upon delivery to Customer.

2.2 SoundCom will schedule shipments based on Customer's requests and SoundCom's estimated shipping capability. SoundCom may make partial shipments unless Customer and SoundCom specifically agree otherwise.

2.3 SoundCom will not be liable for any delay or failure to deliver resulting from circumstances beyond SoundCom's reasonable control or circumstances which would cause SoundCom to incur unreasonable expenses.

2.4 Once accepted by SoundCom, Customer is not entitled to cancel or amend any Purchase Orders. Notwithstanding the foregoing, SoundCom may (in its sole discretion) allow cancellation or rescheduling of any Purchase Order, in which case Customer shall pay to SoundCom a re-stocking or re-scheduling charge to be determined by SoundCom. The re-stocking or re-scheduling charge will vary by Product and/or services and will not constitute a waiver by SoundCom of any other rights it may have under law for such a cancellation or rescheduling.

Limitation of Liability

3.1 In no event shall SoundCom be liable for any incidental, indirect, special or consequential damages by reason of any act or omission or arising out of or in connection with the Products and/or Services or their sale, delivery, installation, warranty, maintenance, operation, performance or use, including without limitation any loss of use, lost revenues, lost profits, costs of capital, damage to associated products or equipment or to facilities, costs of substitute products, facilities or services, costs associated with downtime, costs of replacement power and similar or dissimilar losses, costs or damages. Furthermore, SoundCom's liability to customer for any claim or recovery of any kind hereunder shall in no event exceed the purchase price paid for the products and/or services and/or support services with respect to which such a claim or recovery is made. This limitation shall not apply to liability that by law cannot be so restricted.

3.2 SoundCom shall have no obligation of liability if the action or claim of infringement is due to (i) Customer's use of the Product in combination with other equipment and/or software other than the Product was intended or designed to be used with; (ii) Customer's modification to the Product or Product's installation without SoundCom's prior written consent; (iii) the use of third-party software and or control system programming modifications not documented prior to System/Product delivery/installation; (iv) any unauthorized use of the Product by Customer or any third party.

Warranty

4.1 SoundCom warrants to Customer that its installation of Products will be free from defects in materials and workmanship under normal authorized use consistent with the technical hardware specifications of the Products for a period of twelve (12) months from date of substantial completion (go-live). In the case of phased or segmented installations, the warranty period will be executed upon date of completion of each phase or segment regardless of when the overall project is completed.

4.2 All Rauland-Borg (Rauland) manufactured equipment and parts supplied and installed by SoundCom carry a five (5) year parts warranty, exclusive of labor, effective upon date of substantial completion (go-live). In the case of phased or segmented installations, the warranty period will be executed upon date of completion of each phase or segment regardless of when the overall project is completed. This warranty covers Rauland manufactured core components including control/switching equipment, power supplies, patient stations, sub-stations, and nurse consoles.

4.3 All Rauland Software products carry a one (1) year warranty effective upon date of substantial completion (go-live). In the case of phased or segmented installations, the warranty period will be executed upon date of completion of each phase or segment regardless of when the overall project is completed.

4.4 This expressed twelve-month warranty is extended by SoundCom to the Customer and is not transferrable or assignable to any other party.

4.5 If any such Product proves defective under the foregoing warranty during the Product Warranty Period, SoundCom, at its option, will either (i) repair the defective Product without charge for parts and labor, or (ii) provide a replacement in exchange for the defective product. Replacement Products, parts and components may include reconditioned and/or materials in a like-new condition as determined and in conjunction with Product manufacturer's standard warranty policies.

4.6 SoundCom assumes no obligations or liability for additions or modifications to this warranty unless made in writing and signed by an authorized agent of SoundCom.

4.7 SoundCom will not be liable for any ancillary equipment not furnished by or installed by SoundCom which is attached to or used in connection with SoundCom provided and/or installed Products, and such equipment is expressly excluded from coverage under this warranty.

4.8 In order to obtain service under this Standard Limited Warranty, Customer must notify SoundCom of the alleged defect before the expiration of the warranty period by contacting the SoundCom Service Department during normal business hours. Upon notification, SoundCom will exercise reasonable commercial efforts to confirm the alleged defect and to determine whether the defect is a result of hardware failure. If defect is confirmed, SoundCom shall execute repair or replacement in a reasonable manner at no charge to the customer. If, however, SoundCom determines the allegedly defective Product is functional and in compliance with the technical specifications of the Product, then SoundCom reserves the right to charge the customer for problem diagnostics at SoundCom's then current, prevailing rates and all shipping charges, duties, taxes, travel and expenses.

4.9 Replacement and/or repaired Products, parts and components provided pursuant to this Standard Limited Warranty are warranted to be free from defects in materials and craftsmanship under normal authorized use consistent with the Product instructions for a period of ninety (90) days from shipment, or the remainder of the original Warranty period, whichever is longer, providing neither extends past the original Warranty period.

4.10 This warranty does not extend to any defect, failure or damage caused by (i) use of the Products in a manner inconsistent with the Product instructions; (ii) use of non-SoundCom furnished equipment, software, or facilities with Products; (iii) failure to follow installation, operation, maintenance or care instructions; (iv) failure to permit SoundCom timely access, remote or otherwise, to Products; (v) failure to implement all new Updates to Software to the extent such updates are made available to Customer; or (vi) virus or malware that comes into contact with the Product after installation date. SoundCom shall not be obligated in any event, to reimburse Customer for service provided by personnel other than SoundCom representatives or to furnish service under the applicable warranty: (a) to repair damage resulting from attempts by personnel other than SoundCom representatives to install, repair, or service the Product; (b) to repair damage resulting from improper use or connection to incompatible equipment; or (c) to service a Product that has been modified or integrated with other products without SoundCom's prior written approval. It is expressly understood and agreed that the Products will be maintained at operational condition, taking into account its age and normal wear and tear and nothing herein obligates SoundCom to maintain the Products in new or like-new condition.

4.11 It is expressly understood that damage or defects as a result from Product use other than its normal customary manner are excluded. Damage or defects arising as a consequence of disasters including but not limited to acts of nature, wars, earthquakes, storms, fires, floods, destruction, explosions, riots, strikes, lock-outs, neglect, water, power surges/spike/loss or any other occurrences due to external influences such as improper power supply, improper storage, air conditioning, or other damages are excluded.

4.12 Products which have had the serial number altered and/or removed and/or made illegible are excluded from warranty coverage.

4.13 Consumable items such as batteries and projection lamps are not covered under this warranty.

Applicable Law

5.1 These Terms and Conditions will be construed and interpreted in accordance with the laws of the State of Ohio, without regard to principles of choice of law. Each of the parties consent the jurisdiction of the courts of the State of Ohio, United States of America.

Notices

6.1 All notices shall be given in writing and deemed effective upon receipt. Notices to Customer will be sent to the ordering office or other address as shown on Purchase Order. Notices to SoundCom should be sent to the SoundCom entity identified on the Quotation/Proposal/Contract.

Use of Customer Name

7.1 In consideration of the Products, Services, and/or Support Services purchased in pursuant to a Quotation/Proposal/Contract, Customer agrees that SoundCom may use Customer's name and logo to identify Customer as a customer of SoundCom on SoundCom's website, and as part of a general list of SoundCom's customers for use and reference in SoundCom's corporate, promotional, and marketing materials. Customer agrees that SoundCom may issue a press release identifying Customer as a SoundCom customer describing the nature of the Products, Services, and/or Support Services to be provided. The content of any press release using Customer's name will be subject to Customer's prior review and approval which will not be unreasonably withheld.

Integration

8.1 If Services and/or Support Services are purchased by Customer under a Quotation/Proposal/Contract, the applicable Statement of Work (SOW), description of covered equipment, or written agreement signed by authorized representatives of both parties identifying the Quotation/Proposal/Contract number, if any, shall be incorporated in and made Addenda to these Terms and Conditions. These Terms and Conditions are the complete and exclusive statement of the mutual understanding between SoundCom and Customer and superseded all previous written and oral agreements and communications relating to the subject matter hereof.

Client Acceptance

_____
Company Name

_____
Printed Name

_____
Signature

_____
Date

CITY OF BROOK PARK, OHIO

ORDINANCE NO: _____

INTRODUCED BY: MAYOR COYNE

AN ORDINANCE
AUTHORIZING AND APPROVING THE MAYOR TO ENTER INTO
A PERSONAL SERVICES CONTRACT WITH CUSTOMIZED PHONE SYSTEMS, INC.,
FOR PROFESSIONAL SERVICES
AND DECLARING AN EMERGENCY

WHEREAS, Council deems it necessary for the City to enter into a contract with a specialist in order to provide for the purchase and installation of a network cabling to be used in our new City Hall location; and

WHEREAS, the City sought proposals for network cabling for the new City Hall location and received two proposals; and

WHEREAS, two vendors met with the communications team consisting of Jen Sinatra, Human Resource Commissioner, Sergeant Jim Stopiak and Zach Ellis, our IT Consultant; and

WHEREAS, the communications team chose Customized Phone Systems, Inc., as the best provider for the City as set forth in Exhibit "A;" and

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: That the Mayor is hereby authorized and directed to enter into a contract with Customized Phone Systems, Inc., in order to purchase the network cabling that would be installed in the new City Hall located at the Recreation Center.

SECTION 2: That the funds for the purpose of the aforesaid expenditure have been appropriated or to be appropriated and shall be paid from the General Capital Improvement Fund No. 401 in the amount of $17,990.00.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings

open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason that Council deems it necessary for the Mayor to enter into said contract with Customized Phone Systems, Inc., without undue delay; therefore provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: _____

_____
PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

I HEREBY APPROVE THE WITHIN INSTRUMENT AS TO LEGAL FORM AND CORRECTNESS

_____
DIRECTOR OF LAW

_____
DATE

City of Brook Park ❖ Thomas J. Coyne Mayor
6161 Engle Road
Brook Park, Ohio 44142
Phone: 216-433-1300 ❖ Fax: 216-433-1511
❖ www.cityofbrookpark.com

memo

To: Thomas J. Coyne, Jr., Mayor

From: Communications Team (Jen Sinatra, Human Resource Commissioner; Sergeant Jim Stopiak and IT Consultant Zach Ellis)

Date: September 1, 2017

Re: Network cabling quotes

The team solicited quotes from DBS Communications and Customized Phone Systems, Inc for network cabling for the new City Hall location and all other City buildings. The scope of this project includes all CAT 6 plenum wire, 6 strand single mode fiber, patch panels and rack for equipment.

Customized Phone Systems, Inc. came in $3,631.00 under DBS Communications. Therefore we recommend Customized Phone Systems for this project.

EXHIBIT A

CUSTOMIZED PHONE SYSTEMS, INC.

6307 Southington Drive
Parma, OH 44129
Cell: 440-463-1196
Office: 440-884-5282

PROPOSAL

To: City of Brook Park
Attention: Jen Sinatra
6161 Engle Road
Brook Park, OH 44142

Date: August 30, 2017

The following is an estimate of time and material for installation of CAT6 plenum wire at the following locations:

Court/Council:	6 Dual CAT6 (4 for offices one set for the printer)	$1320.00
City Hall:	26 Dual CAT6 (for offices)	$5720.00
	14 Dual CAT6 (for the cubicles)	$3080.00
	2 Single CAT6 (runs for wireless APs)	$ 280.00
	4 Single CAT6 (to copy room)	$ 560.00
		$9640.00
Recreation Center:	13 Single CAT6 (various locations)	$1820.00
Police Department:	5 Single CAT6 (various locations)	$ 700.00
Fire Station #8:	7 Single CAT6 (various locations at 17401 Holland Road)	$ 980.00
Fire Station #9:	1 Single CAT6 (Apparatus Bay)	$ 140.00
Service Department:	6 Single CAT6 (various locations)	$ 840.00
Total for Wire Runs:		$15,440.00
Additional material:		
	1 – 7' 4/post rack	
	2 – shelves	
	4 – 12/port patch panels	
	1 – 48/port patch panel	$ 1025.00

300' Plenum fiber optic run- 6 stran single mode fiber to copper ends	$ 1525.00
TOTAL WIRE RUNS, EQUIPMENT AND LABOR	**$17990.00**

All locations will be tested and labeled

50% DOWN ON ACCEPTANCE OF BID

This estimate is intended solely for City of Brook Park and is good for fifteen (15) days from above date.

_____ _____

Wayne Wightman
Customized Phone Systems

Date

_____ _____

City of Brook Park, Ohio

Date

DBS Communications

Voice and Data Specialists

Network Cabling Infrastructure Proposal for

BROOK PARK

REBUILDING TOGETHER

New City Hall

August 21, 2017

Presented by:

JT Krohe
DBS Communications
Brook Park, Ohio

216-265-3200

Uniprise CommScope Authorized Business Partner

BICSI REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER

DBS Communications
Voice and Data Specialists

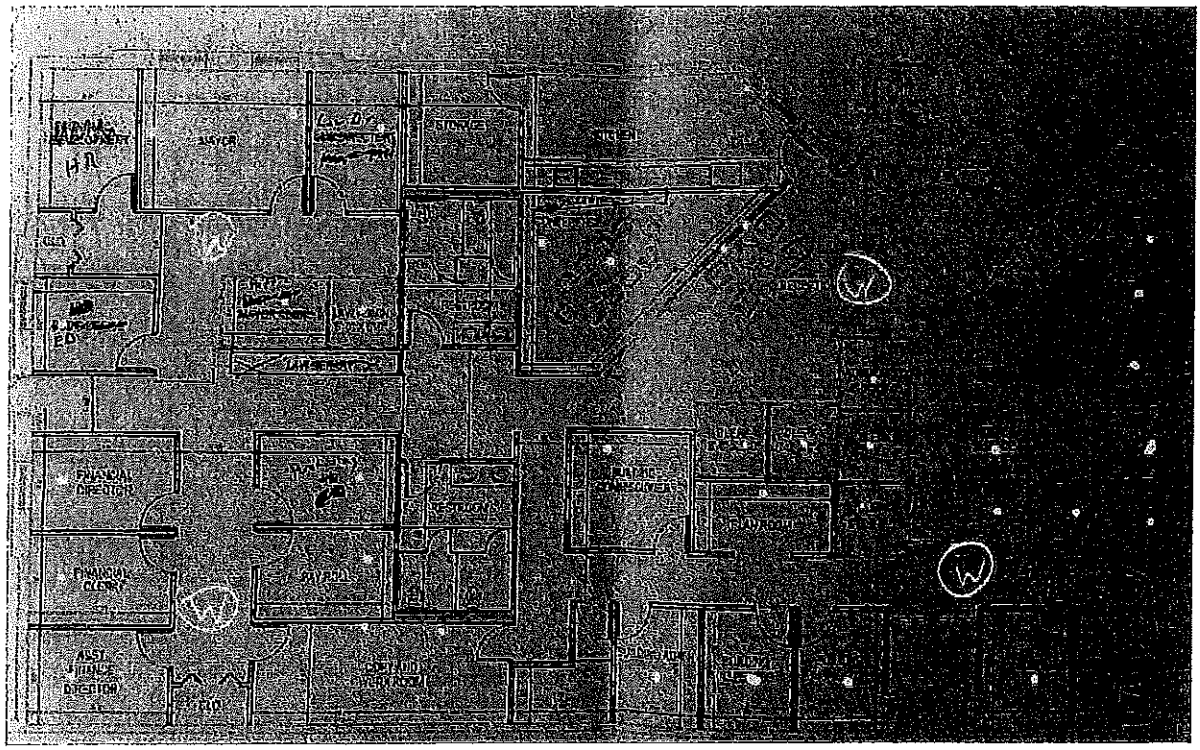
August 18, 2017

City of Brook Park New City Hall Cabling Infrastructure

Overview:
DBS Communications proposes to install Category 6 network cabling for the new City Hall to be located in the former Day Care space.

DBS will pull all CAT6 plenum voice/data cabling as listed, per the print.

All cabling will be pulled from a centralized MDF(IT Room) and be terminated as modular on CAT6 patch panels.



Locations:

Dual CAT6 Office Locations:
For Dual CAT6 office locations, DBS will pull two CAT6 plenum cables from the MDF. Each cable will be terminated in its own CAT6 jack and placed in a flush-mounted 2-port wall plate.

There are 26 total office duals.

Dual CAT6 Cubicle Locations:
For cubicle locations, DBS will pull two CAT6 cables to each cubicle. These cables will be routed down power poles (provided by others) or columns/walls attached to the furniture.

Cubicle wires will be laced through the furniture as it is being built and will include a furniture-specific face 2-port faceplate.

There are 14 total cubicle duals.

WAP CAT6 Locations:
All WAP locations will include a single CAT6 wire pulled to the WAP location and terminated in a CAT6 jack placed in a surface-mount-box mounted above the drop ceiling.

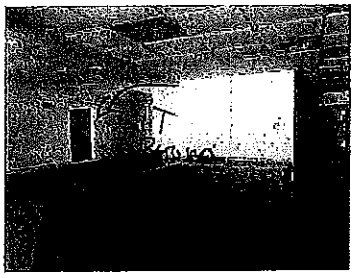
There are four (4) total WAP locations.

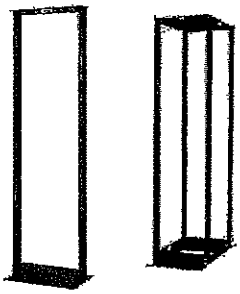
MDF (IT Room):
DBS will provide and build out the racking for the MDF. DBS will include a 7-foot, 2-post floor rack with ladder rack section securing it to the wall. DBS will also provide rack radius drops to support the cabling along with required mounting hardware for the rack and ladder rack.

Additionally, DBS will provide and install a 4-post rack for servers. The rack will include ladder rack, hardware and two sets of server shelves.

The rack equipment is itemized just in case the City prefers it to be provided by another contractor.

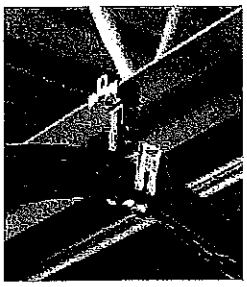
DBS will also provide grounding/bonding hardware in the MDF. The electrical contractor must provide a THHN #6 ground wire in the MDF from the nearest building ground.

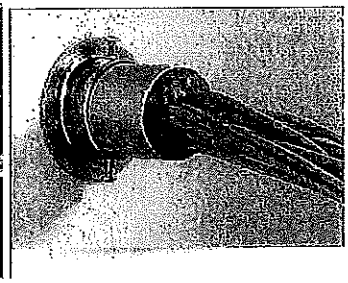


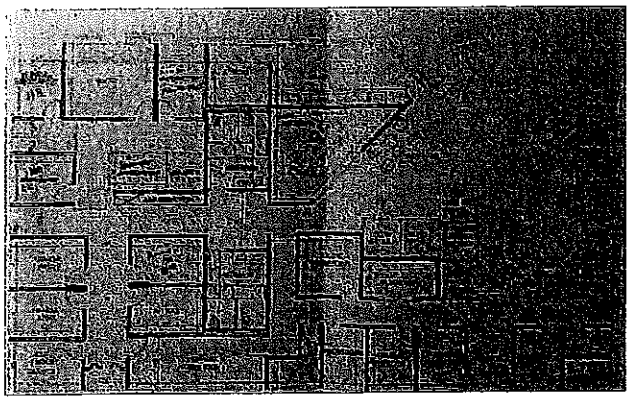


Please Note:
No wire managers are included. Once rack layout and rack equipment is determined, wire managers can be added as needed.

Pathways and Hanging Hardware
DBS will provide and install all required J-hooks hanging hardware and pathways. DBS will also install all sleeves as required. New J-Hooks will be a combination of CAT64, CAT32, CAT16 and CAT12.





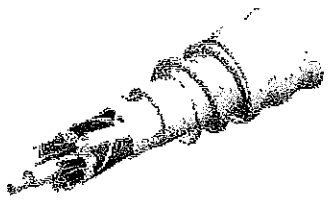


* The exact route of the new pathways will be determined onsite by the project foreman.

Wire Removal
No removal of existing or abandoned wire is included.

Project Overhead
The project overhead line item includes set-up and tear-down time, travel time, lift rental, velcro, truck charges, walk-thru's and miscellaneous materials.

Fiber Optic Feed from City Hall MDF to Rec Center IDF
DBS will also pull a fiber optic cable to connect the MDF in the new City Hall to the IDF located in the Rec Center (inside the future Council Chambers).



This cable will be a 6-strand single-mode (10-gigabit) armored cable. Included will be fiber optic shelves on each end with fiber cartridges for terminations.

Four fiber jumpers are included along with pathway hardware and installation.

Location Schedule

Location	Qty	Item	# of CAT6	For	Dual Office	Dual Cube	WAP	Notes
MDF (IT)								No Wiring
Tax Admin	1	Dual CAT6	2	Workstation	1			
Building Inspector 1	1	Dual CAT6	2	Workstation	1			
Building Inspector 2	1	Dual CAT6	2	Workstation	1			
Building Admin	1	Dual CAT6	2	Workstation	1			
Copy/Work Room	4	Dual CAT6	8	Multi-Purpose	4			
Asst Fin Director	1	Dual CAT6	2	Workstation	1			
Financial Clerk	1	Dual CAT6	2	Workstation	1			
Financial Director	1	Dual CAT6	2	Workstation	1			
ED	1	Dual CAT6	2	Workstation	1			
Human Resources	1	Dual CAT6	2	Workstation	1			
Mayor	2	Dual CAT6	4	Workstation	2			
Law Director	1	Dual CAT6	2	Workstation	1			
Pattie	1	Dual CAT6	2	Workstation	1			
Law Admin	1	Dual CAT6	2	Cube		1		
Purchasing	1	Dual CAT6	2	Workstation	1			
Pay Roll	1	Dual CAT6	2	Workstation	1			
Kitchen	1	Dual CAT6	2	Multi-Purpose	1			
Conference	2	Dual CAT6	4	Multi-Purpose	2			
Building Commish	1	Dual CAT6	2	Workstation	1			
Plan Room	1	Dual CAT6	2	Multi-Purpose	1			
Reception	2	Dual CAT6	4	Workstations	2			
Clerk 1	1	Dual CAT6	2	Workstation		1		
Clerk 2	1	Dual CAT6	2	Workstation		1		
Clerk 3	1	Dual CAT6	2	Workstation		1		
Clerk 4	1	Dual CAT6	2	Workstation		1		
Admin Assistant	1	Dual CAT6	2	Workstation		1		
Civil Service	1	Dual CAT6	2	Workstation		1		
Tax 1	1	Dual CAT6	2	Workstation		1		
Tax 2	1	Dual CAT6	2	Workstation		1		
Analyst	1	Dual CAT6	2	Workstation		1		
Tax 3	1	Dual CAT6	2	Workstation		1		
Tax 4	1	Dual CAT6	2	Workstation		1		
Tax 5	1	Dual CAT6	2	Workstation		1		
Tax 6	1	Dual CAT6	2	Workstation		1		
Mayor WAP	1	SingleCAT6	1	WAP			1	
Finance WAP	1	SingleCAT6	1	WAP			1	
Reception WAP	1	SingleCAT6	1	WAP			1	
TAX WAP	1	SingleCAT6	1	WAP			1	
			84		26	14	4	

Total Project Cost:

Qty	Item	Each	Total
26	Dual CAT6 Office	222	5,772
14	Dual CAT6 Cubicle	262	3,668
4	Single CAT6 WAPS	118	472
1	MDF	4,277	4,277
1	Pathways	2,049	2,049
1	Job Overhead	433	433
1	Fiber Run MDF/IDF	4950	4,950
Total Project:			$21,621

- All cabling will be terminated, tested and labeled.
- Test results confirming CAT6 performance will be provided to the customer.
- Cost does not include sales tax
- Cost does not include any required permits
- All work to be completed during normal business hours
- The above cost does NOT include patch cords.

Please Note:

- All locations are assumed to be piped by the electrical contractor.
- This cost does not include the removal of any existing or abandoned wire.

CITY OF BROOK PARK, OHIO

ORDINANCE NO: _____

INTRODUCED BY: MAYOR COYNE

AN ORDINANCE
AUTHORIZING AND APPROVING THE MAYOR TO ENTER INTO
A PERSONAL SERVICES CONTRACT WITH BUILDING TECHNICIANS CORP.
FOR PROFESSIONAL SERVICES
AND DECLARING AN EMERGENCY

WHEREAS, Council deems it necessary for the City to enter into a contract with a specialist in order to provide for the purchase and installation of a Fire Department Roof A Replacement & Fire Department Roof B and Hallway Repairs located at 17401 Holland Road; and

WHEREAS, the City sought proposals for the Fire Department Roof A Replacement and Fire Department Roof B and Hallway Repairs and received three proposals; and

WHEREAS, three vendors met at the Fire Department and were shown the problems; and

WHEREAS, Building Technicians Corp., was chosen as the best provider for the City as set forth in Exhibit "A;" and

NOW THEREFORE, BE IT ORDAINED, by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: That the Mayor is hereby authorized and directed to enter into a contract with Building Technicians Corp., for the purchase of the Fire Department Roof A Replacement and Fire Department Roof B and Hallway Repairs that would be installed at 17401 Holland Road.

SECTION 2: That the funds for the purpose of the aforesaid expenditure have been appropriated or to be appropriated and shall be paid from the General Capital Improvement Fund No. 401 in the amount of $81,800.00.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its

committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of said City, and for the further reason that Council deems it necessary for the Mayor to enter into said contract with Building Technicians Corp., without undue delay; therefore provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: _____

_____
PRESIDENT OF COUNCIL

ATTEST: _____
Clerk of Council

APPROVED: _____
MAYOR

I HEREBY APPROVE THE WITHIN INSTRUMENT AS TO LEGAL FORM AND CORRECTNESS

DIRECTOR OF LAW

_____
DATE

Form of Proposal
for
City of Brookpark –
Fire Department Roof A Replacement & Fire Department Roof B and Hallway Repairs

Certified Proposal Number R132205-OH-15435
Service Notification 5032269 Bid Form

BID DUE DATE: Friday, September 1, 2017

DIRECT BIDS TO: Mr. Lou Cayet
City of Brookpark
19065 Holland Road
Brook Park, Ohio 44142
Email: lcayet@cityofbrookpark.com

Having carefully examined the scope of work, as well as the site and all conditions affecting work for the above noted project, the undersigned agrees to furnish all materials, labor, taxes and freight to complete the replacement of Fire Department Roof A & Fire Department B and Hallway Repairs at The Safety Center for the following amount:

TOTAL BID: $ 78,800.00

ADD ALTERNATE (Coating Rusted Metal): $3,000.00

1. If unforeseen, or extra work, authorized by The City of Brookpark is performed on this project, list rate per man-hour to be charged: $85.00 /hour

CONTRACTOR SUBMITTING THIS PROPOSAL:

Printed Contractor Name: Building Technicians Corp.

Edward C. VanHoy

Signature:

Title: Sales

Date 9/1/17

Address: 4500 Clay St. Geneva, Ohio 44041

Phone#: 440-812-5320 Email:edvanhoy@buildingtechnicians.org

EXHIBIT A

Form of Proposal
for
City of Brookpark –
Fire Department Roof A Replacement & Fire Department Roof B and Hallway Repairs

Certified Proposal Number R132205-OH-15435
Service Notification 5032269 Bid Form

BID DUE DATE: Friday, September 1, 2017

DIRECT BIDS TO: Mr. Lou Cayet
City of Brookpark
19065 Holland Road
Brook Park, Ohio 44142
Email: lcayet@cityofbrookpark.com

Having carefully examined the scope of work, as well as the site and all conditions affecting work for the above noted project, the undersigned agrees to furnish all materials, labor, taxes and freight to complete the replacement of Fire Department Roof A & Fire Department B and Hallway Repairs at The Safety Center for the following amount:

TOTAL BID: $ 134,500.00

ADD ALTERNATE (Coating Rusted Metal): $ 8,000.00

1. If unforeseen, or extra work, authorized by The City of Brookpark is performed on this project, list rate per man-hour to be charged: $ 85.00 /hour

CONTRACTOR SUBMITTING THIS PROPOSAL:

Printed Contractor Name: Warren Roofing & Insulating Co.

Signature:

Title: John Vetrovsky, Senior VP

Date: 9/1/2017

Address: 7015 Krick Road, Walton Hills, OH 44146

Phone#: 440-439-4404 Email: john@warrenroofing.com

Form of Proposal
for
City of Brookpark –
Fire Department Roof A Replacement & Fire Department Roof B and Hallway Repairs

Certified Proposal Number R132205-OH-15435
Service Notification 5032269 Bid Form

BID DUE DATE: Friday, September 1, 2017

DIRECT BIDS TO: Mr. Lou Cayet
City of Brookpark
19065 Holland Road
Brook Park, Ohio 44142
Email: lcayet@cityofbrookpark.com

Having carefully examined the scope of work, as well as the site and all conditions affecting work for the above noted project, the undersigned agrees to furnish all materials, labor, taxes and freight to complete the replacement of Fire Department Roof A & Fire Department B and Hallway Repairs at The Safety Center for the following amount:

TOTAL BID: $ 89,600.00

ADD ALTERNATE (Coating Rusted Metal): $ 4,900.00

1. If unforeseen, or extra work, authorized by The City of Brookpark is performed on this project, list rate per man-hour to be charged: $ 80.00 /hour

CONTRACTOR SUBMITTING THIS PROPOSAL:

Printed Contractor Name: A.W. FARRELL & SON INC.

Signature: Tyler Vaske - TYLER VASKE

Title: MANAGER

Date: 9/1/17

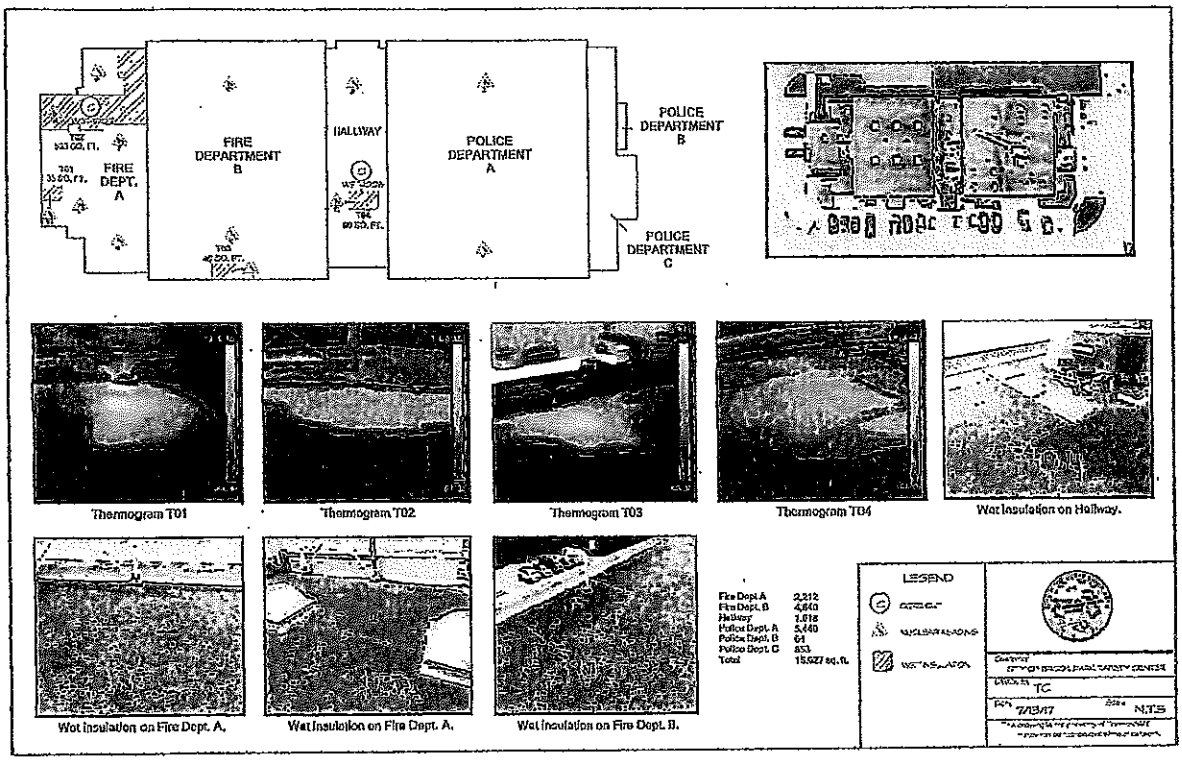
Address: 13200 BROADWAY AVE. GARFIELD HTS, OH 44125

Phone#: 216-337-0926 Email: TYLER.VASKE@AWFARRELL.COM

Brook Park Safety Center - Roof Analysis Report

Introduction

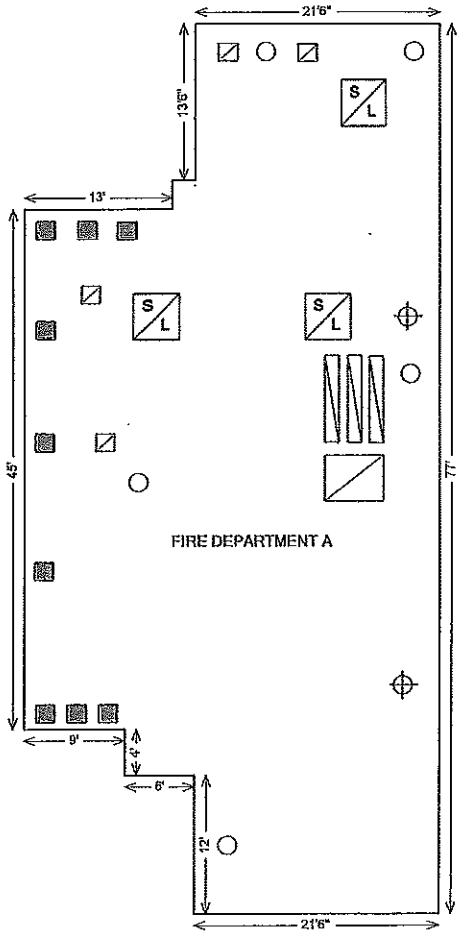
On the night of June 28th, 2017 Tremco performed an infrared inspection. Approximately 668 sq. ft. of wet insulation was found. This was followed by core samples to determine construction and a visual survey. The following is a summary of our findings and recommendations.

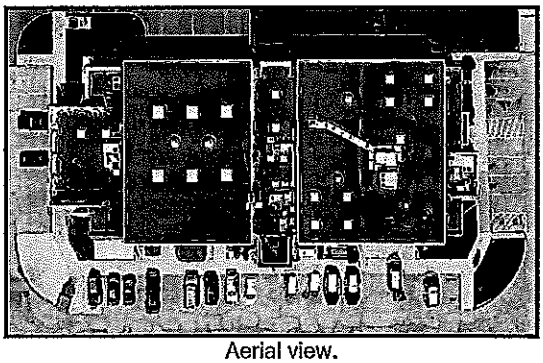


Roof Construction

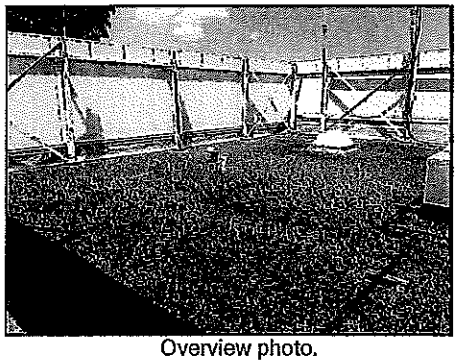
All Roofs:

Aggregate Surfacing
Built-Up Roof
½" Fiberboard
2" ISO
Metal Deck





Aerial view.



Overview photo.

Existing Roof Construction:
Asphalt Built-up Roof
1/2" Fiberboard
2 1/2" ISO
Metal Deck
2,359 sq. ft.

LEGEND

S/L SKYLIGHT

STRUCTURAL MEMBER

STACK

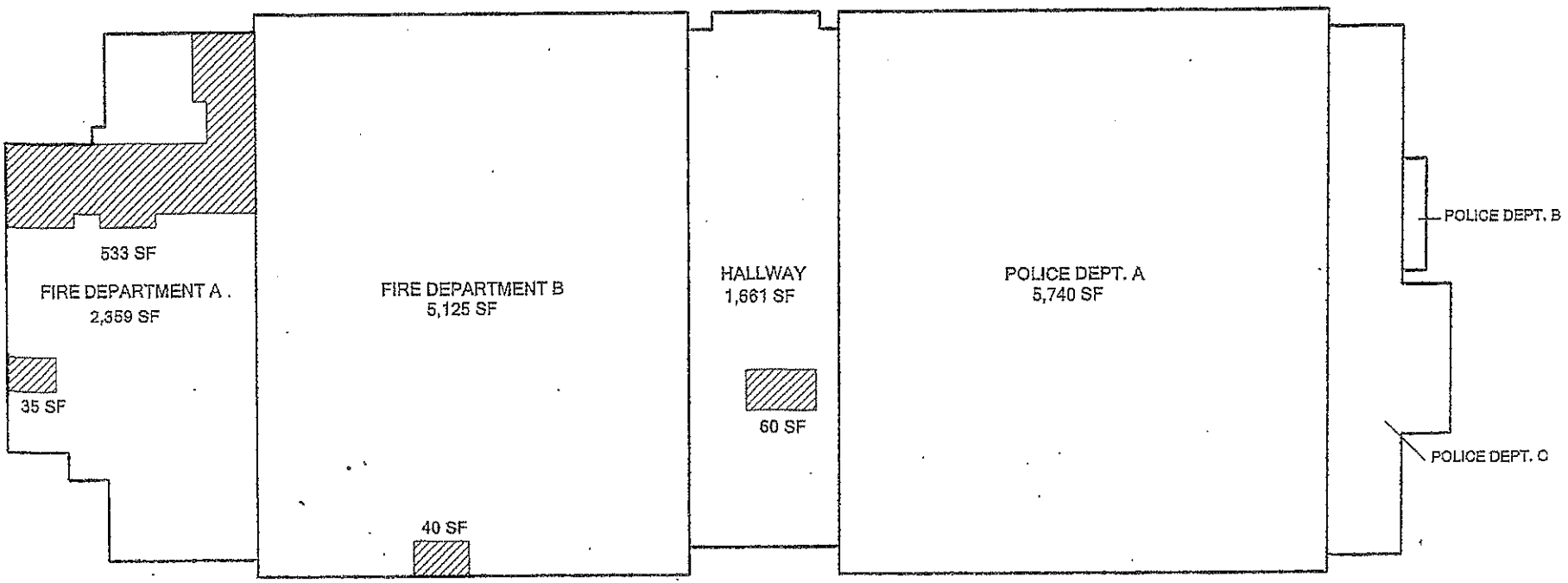
CURB

DRAIN

Customer: CITY OF BROOK PARK

DWG. By: TC | Sheet: A1

Date: 8/1/17 | Scale: N.T.S



DRAFT/WORKING COPY

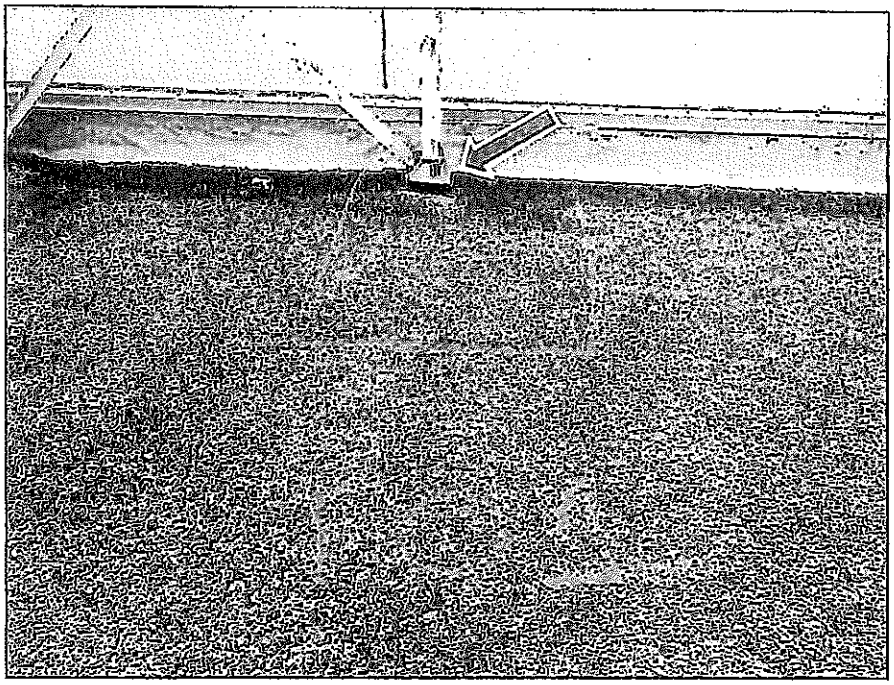
Customer: CITY OF BROOK PARK

DWG. By: TC | Sheet: A1

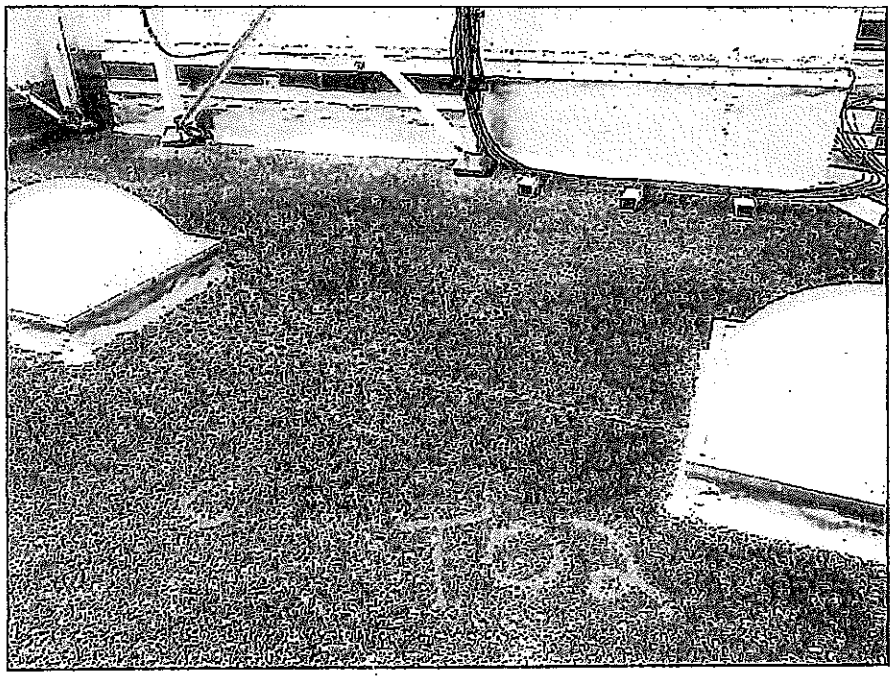
Date: 6/30/17 | Scale: N.T.S

Typical Condition Photographs

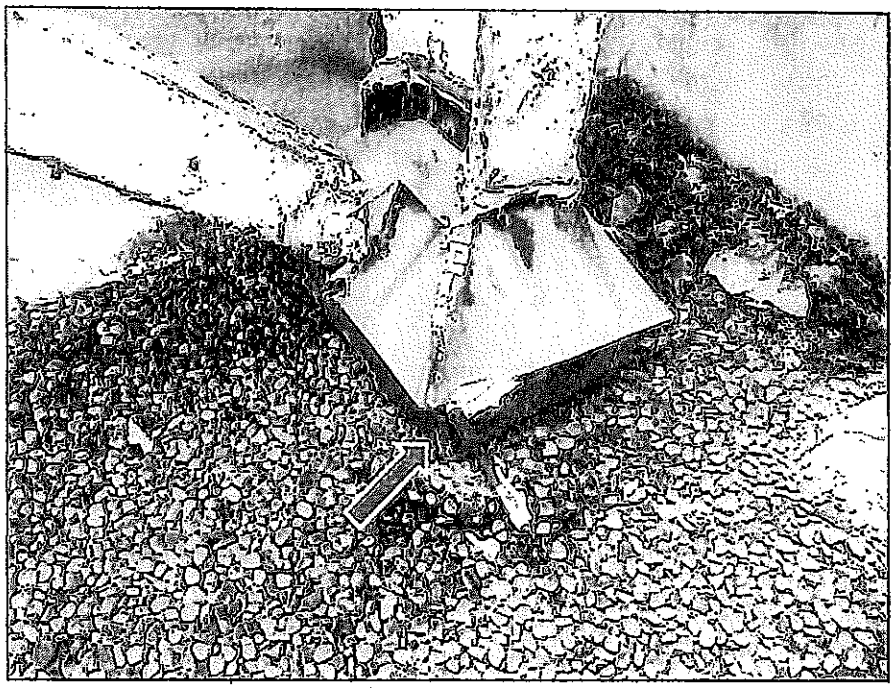
Fire Department A – Open pitch pocket flashings at wet area T01.



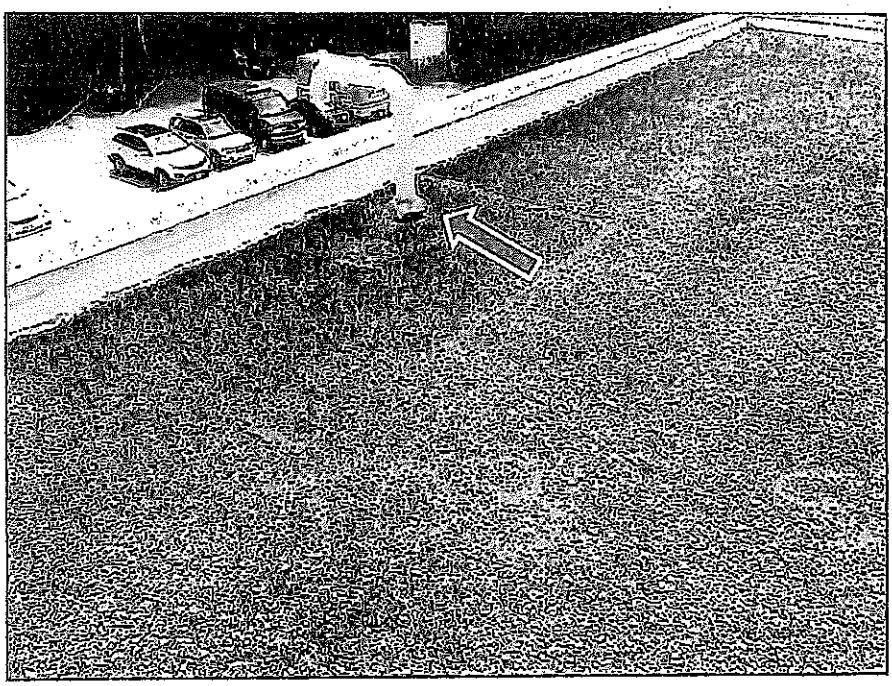
Fire Department A – Overview of wet area T02.



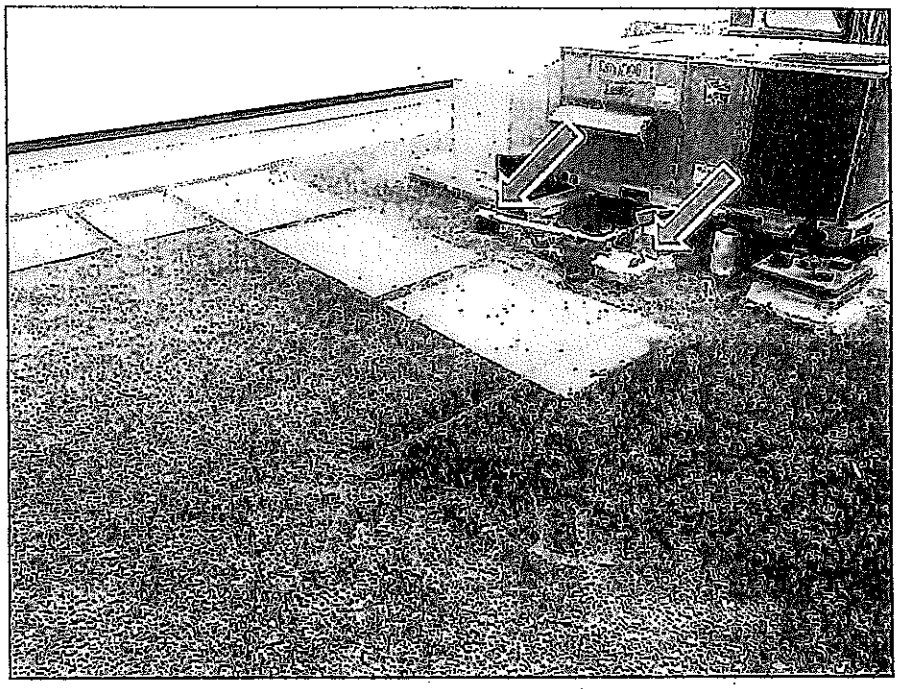
Fire Department A – Open pitch pocket flashing and previous repairs at wet area T02.



Fire Department B – Open pitch pocket flashings may have been the cause of the wet insulation at wet area T03.



Hallway – Open pitch pocket flashings or a puncture may have been the cause of the wet insulation at wet area T04.



TREMCO
ROOFING & BUILDING MAINTENANCE

Joseph Slattery
Weatherproofing Technologies, Inc.
3735 Green Road, Beachwood, Ohio 44124
jslattery@tremcoinc.com

At Fire Department A Roof:

1. Removal of roofing and insulation to metal deck.
2. Mechanically attach 2.8" Trisotech isocyanurate insulation.
3. Apply Roxul Monoboard 1" in Low Rise Foam insulation adhesive.
4. Install Burmastic Composite Ply sheet in Burmastic SF at a coverage rate of 3 gallons per square. Apply Polyroof LV and Burmesh at all terminations.
5. Prime sheet with WB primer at 200 sq. ft. per gallon.
6. Install Alphaguard base coat at 3 gals. per square, reinforcement, and top coat at 2 gals. per square at the field and flashings.
7. Install traffic coat of Alphaguard and embedded sand. Traffic coat will be 1 ¼ gals. per square with 20-40 mesh silica sand/3M granules at 10-15 lbs. per square.
8. At all metal edge perimeters, remove and replace with steel fascia and cleat meeting current code and ANSI SPRI standards.
9. Remove and replace slip flashing at A/C unit.
10. Install new Miro pipe supports as needed.
11. Existing wiring and blocking to remain.
12. Tremco details at all perimeter and penetrations.

At Fire Department B and Hallway Roofs:

1. Spud back area marked in spray paint.
2. Inspect for any open flashings, splits or other defects. Seal with Tremseal Pro and repair with ELS and Burmesh. Reflood and rock in standard Burmastic Adhesive.

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Rooftop equipment bases and support curbs.

2. Wood blocking, cants, and nailers.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.

1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.

2. Include data for fire-retardant treatmentfrom chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Include physical properties of treated materials based on testing by a qualified independent testing agency.

3. For fire-retardant treatments, include physical properties of treated lumber both before and after exposure to elevated temperatures, based on testing by a qualified independent testing agency according to ASTM D 5664.

4. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.

5. Include copies of warranties from chemical treatment manufacturers for each type of treatment.

1.4 INFORMATIONAL SUBMITTALS

A. Evaluation Reports: For the following, from ICC-ES:

1. Preservative-treated wood.

2. Fire-retardant-treated wood.

1.5 QUALITY ASSURANCE

A. Testing Agency Qualifications: For testing agency providing classification marking for fire-retardant treated material, an inspection agency acceptable to authorities having jurisdiction that periodically performs inspections to verify that the material bearing the classification marking is representative of the material tested.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Stack lumber flat with spacers beneath and between each bundle to provide air circulation. Protect lumber from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.

1. Factory mark each piece of lumber with grade stamp of grading agency.

2. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.

3. Provide dressed lumber, S4S, unless otherwise indicated.

B. Maximum Moisture Content of Lumber:unless otherwise indicated.

2.2 WOOD-PRESERVATIVE-TREATED MATERIALS

A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2 for interior construction not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.

1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.

B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or does not comply with requirements for untreated material.

C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.

D. Application: Treatall miscellaneous carpentry unless otherwise indicated.

2.3 MISCELLANEOUS LUMBER

A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:

1. Blocking.

2. Nailers.

3. Rooftop equipment bases and support curbs.

4. Cants.

B. For items of dimension lumber size, provide Construction or No. 2 grade lumber of any species.

C. For blocking not used for attachment of other construction, Utility, Stud, or No. 3 grade lumber of any species may be used provided that it is cut and selected to eliminate defects that will interfere with its attachment and purpose.

D. For blocking and nailers used for attachment of other construction, select and cut lumber to eliminate knots and other defects that will interfere with attachment of other work.

2.4 FASTENERS

A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.

1. Where carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.

B. Nails, Brads, and Staples: ASTM F 1667.

C. Power-Driven Fasteners: NES NER-272.

D. Wood Screws: ASME B18.6.1.

E. Screws for Fastening to Metal Framing:, length as recommended by screw manufacturer for material being fastened. ASTM C 954

F. Lag Bolts: ASME B18.2.1 (ASME B18.2.3.8M).

G. Bolts: Steel bolts complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); with ASTM A 563 (ASTM A 563M) hex nuts and, where indicated, flat washers.

H. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated below with capability to sustain, without failure, a load equal to 6 times the load imposed when installed in unit masonry

assemblies and equal to 4 times the load imposed when installed in concrete as determined by testing per ASTM E 488 conducted by a qualified independent testing and inspecting agency.

1. Material: Stainless steel with bolts and nuts complying with ASTM F 593 and ASTM F 594, Alloy Group 1 or 2 (ASTM F 738M and ASTM F 836M, Grade A1 or A4).

2.5 MISCELLANEOUS MATERIALS

A. Flexible Flashing: Composite, self-adhesive, flashing product consisting of a pliable, butyl rubber or rubberized-asphalt compound, bonded to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than 0.025 inch (0.6 mm).

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Set carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit carpentry to other construction; scribe and cope as needed for accurate fit. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.

B. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.

C. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.

D. Install plywood backing panels by fastening to studs; coordinate locations with utilities requiring backing panels. Install fire-retardant treated plywood backing panels with classification marking of testing agency exposed to view.

E. Do not splice structural members between supports unless otherwise indicated.

F. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.

G. Provide fire blocking in furred spaces, stud spaces, and other concealed cavities as indicated and as follows:

1. Fire block furred spaces of walls, at each floor level, at ceiling, and at not more than 96 inches (2438 mm) o.c. with solid wood blocking or noncombustible materials accurately fitted to close furred spaces.

2. Fire block concealed spaces of wood-framed walls and partitions at each floor level, at ceiling line of top story, and at not more than 96 inches (2438 mm) o.c. Where fire blocking is not inherent in framing system used, provide closely fitted solid wood blocks of same width as framing members and 2-inch nominal (38-mm actual) thickness.

3. Fire block concealed spaces between floor sleepers with same material as sleepers to limit concealed spaces to not more than 100 sq. ft. (9.3 sq. m) and to solidly fill space below partitions.

4. Fire block concealed spaces behind combustible cornices and exterior trim at not more than 20 feet (6 m) o.c.

H. Sort and select lumber so that natural characteristics will not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.

I. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.

1. Use inorganic boron for items that are continuously protected from liquid water.

2. Use copper naphthenate for items not continuously protected from liquid water.

J. Securely attach carpentry work to substrate by anchoring and fastening as indicated, complying with the following:

1. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.

K. Use steel common nails unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting wood. Drive nails snug but do not countersink nail heads unless otherwise indicated.

3.2 WOOD BLOCKING, AND NAILER INSTALLATION

A. Install where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.

B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.

3.3 PROTECTION

A. Protect miscellaneous rough carpentry from weather. If, despite protection, miscellaneous rough carpentry becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION 061053

SECTION 070150 - PREPARATION FOR RE-ROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Roof tear-off.
2. Partial roof tear-off.
3. Roof patching.
4. Roof replacementpreparation.
5. Removal and reinstallation of indicated components, accessories, and equipment.

B. Related Requirements:

1. Division 00 Document "Available Information," including the following pre-construction test report attachments.
    a. Infrared roof moisture survey report.
    b. Construction Drawings for existing roofing system.
2. Division 07 Section "Sheet Metal Flashing and Trim" for formed metal roof flashings and counterflashings.

C. Unit Prices: Refer to Division 01 Section "Unit Prices" for description of Work in this Section affected by unit prices. Work of this Section is affected by metal deck removal and replacement unit price.

1.3 DESCRIPTION OF WORK

A. Re-roofing preparation Work consists of the following:

1. Preparation for Roof Area RA#1: Fire Department Roof A:
    a. Preparation for: Roof replacement.

b. Existing Roof Type: Aggregate surfaced BUR.

c. Existing Deck Type: Metal deck.

d. Roof tear-off.

e. Removal and reinstallation of indicated components, accessories, and equipment.

f. Salvaging of non-hazardous demolition and construction waste.

g. Recycling of non-hazardous demolition and construction waste.

h. Uplift securement.

i. Removal of base flashings.

j. Temporary roof membrane.

2. Preparation for Roof Area RA#2: Fire Department B & Hallway Roof:

a. Preparation for: Roof rehabilitation.

b. Existing Roof Type: Aggregate surfaced BUR.

c. Existing Deck Type: Metal deck.

d. Partial roof tear-off.

e. Removal and reinstallation of indicated components, accessories, and equipment.

f. Roof patching.

1.4 MATERIALS OWNERSHIP

A. Except for items or materials indicated to be reused, reinstalled, or otherwise indicated to remain Owner's property, demolished materials shall become Contractor's property and shall be removed from Project site.

1.5 DEFINITIONS

A. Roofing Terminology: Refer to ASTM D 1079 and glossary in NRCA's "The NRCA Roofing and Waterproofing Manual" for definition of terms related to roofing work in this Section.

B. Existing Membrane Roofing System: Roofing system identified above, including roofing membrane, roof insulation, surfacing, and components and accessories between deck and roofing membrane.

C. Roof Re-Cover Preparation: Existing roofing membrane that is to remain and be prepared for reuse or rehabilitation.

D. Roof Tear-Off: Removal of existing membrane roofing system from deck.

E. Partial Roof Tear-Off: Removal of a portion of existing membrane roofing system from deck or removal of selected components and accessories from existing membrane roofing system.

F. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and reinstalled.

G. Existing to Remain: Existing items of construction that are not indicated to be removed.

H. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.

I. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.

J. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.

K. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.6 QUALITY ASSURANCE

A. Reroofing Conference: Conduct conference at Project site.

1. Meet with Owner; Owner's insurer if applicable; testing and inspecting agency representative; roofing system manufacturer's representative; deck Installer; roofing Installer including project manager, superintendent, and foreman; and installers whose work interfaces with or affects reroofing including installers of roof accessories and roof-mounted equipment.

2. Review methods and procedures related to roofing system tear-off and replacement including, but not limited to, the following:

a. Reroofing preparation, including membrane roofing system manufacturer's written instructions.

b. Procedures for salvaging and recycling of demolition and construction waste

c. Temporary protection requirements for existing roofing system that is to remain during and after installation.

d. Existing roof drains and roof drainage during each stage of reroofing, and roof drain plugging and plug removal requirements.

e. Construction schedule and availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

f. Existing deck removal procedures and Owner notifications.

g. Condition and acceptance of existing roof deck and base flashing substrate for reuse.

h. Structural loading limitations of deck during reroofing.

i. Base flashings, special roofing details, drainage, penetrations, equipment curbs, and condition of other construction that will affect reroofing.

j. HVAC shutdown and sealing of air intakes.

k. Shutdown of fire-suppression, -protection, and -alarm and -detection systems.

l. Asbestos removal and discovery of asbestos-containing materials.

m. Governing regulations and requirements for insurance and certificates if applicable.

n. Existing conditions that may require notification of Architect before proceeding.

1.7 PROJECT CONDITIONS

A. Owner will occupy portions of building immediately below reroofing area. Conduct reroofing so Owner's operations will not be disrupted. Provide Owner with not less than 48 hours' notice of activities that may affect Owner's operations.

1. Coordinate work activities daily with Owner so Owner can place protective dust or water leakage covers over sensitive equipment or furnishings, shut down HVAC and fire-alarm or -detection equipment if needed, and evacuate occupants from below the work area.

2. Before working over structurally impaired areas of deck, notify Owner to evacuate occupants from below the affected area. Verify that occupants below the work area have been evacuated before proceeding with work over the impaired deck area.

B. Protect building to be reroofed, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from reroofing operations.

C. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.

1. A roof moisture survey of existing membrane roofing system is available for Contractor's reference.

2. The results of an analysis of test cores from existing membrane roofing system are available for Contractor's reference.

3. Construction Drawings for existing roofing system are provided for Contractor's reference. Contractor is responsible for conclusions derived from existing documents.

D. Limit construction loads on roof to rooftop equipment wheel loads and uniformly distributed loads not exceeding recommendations of Contractor's professional engineer based upon site inspection and analysis.

E. Weather Limitations: Proceed with reroofing preparation only when existing and forecasted weather conditions permit Work to proceed without water entering existing roofing system or building.

Daily Protection: Coordinate installation of roofing so insulation and other components of roofing system not permanently exposed are not subjected to precipitation or left uncovered at the end of the workday or when rain is forecast.

1.8 PROVISIONS FOR NIPA – TCPN PROPOSALS

A. Additional terms and conditions:
1. Purchase Orders. Purchase orders will be issued by Members to the awarded Contractor indicating on the purchase order "Per TCPN Contract #R132205 – Contractor Network. Certified Proposal Number OH 15435" or "Per TCPN Contract #R140303 – Contractor Network, Certified Proposal Number OH 15435," respectively. Contractor must submit a copy of each purchase order received from a Member to Tremco via email at contractornetworkadmin@tremcoinc.com.
2. Duty to keep current license: Contractor shall maintain in current status all federal, state and local licenses, bonds and permits required for the operation of the business conducted by Contractor. Contractor shall remain fully informed of and in compliance with all ordinances and regulations pertaining to the lawful provision of services under the contract. Region 4 ESC reserves the right to stop work and/or cancel the contract of any Contractor whose license(s) expire, lapse, are suspended or terminated.
3. 33. Suspended or Disbarred. The Contractor certifies that it has not been debarred, suspended or otherwise declared ineligible for the award of federal, state or local government contracts.
4. Survival Clause: All applicable software license agreements, warranties or service agreements that were entered into between Contractor and Customer under the terms and conditions of the Contract shall survive the expiration or termination of the Contract. All Purchase Orders issued and accepted by Order Fulfiller shall survive expiration or termination of the Contract.
5. Manufacturer Certification or Approval. Contractor warrants and certifies that it has the necessary approval or certification from the manufacturers to install the specified manufacturers' roofing systems and deliver to Members manufacturers' warranties for those systems, including but not limited to entering into any authorized or similar contractor agreements required by the manufacturer. Contractor will not submit a bid or proposal to be awarded a project through the Contractor Network to install a roofing system for which it cannot deliver a manufacturers' warranty to the Member.
6. Compliance with Trade Restrictions. (A) Except as authorized by the Office of Foreign Assets Control (OFAC) in the Department of Treasury, the Contractor warrants that it shall not acquire, for use in the performance of any Contractor Network project, any supplies or services if any proclamation, Executive order, or statute administered by OFAC, or if OFAC's implementing regulations at 31 CFR Chapter V would prohibit such a transaction by a person subject to the jurisdiction of the United States. (B) Except as authorized by OFAC, most transactions involving Cuba, Iran and Sudan are prohibited as are most imports from Burma or North Korea, into the United States or its outlying areas. Lists of entities and individuals subject to economic sanctions are included in OFAC's List of Specially Designated Nationals and Blocked Persons at http://www.treas.gov/offices/enforcement/ofac/sdn. More information about these

restrictions, as well as updates, is available in the OFAC's regulation at 31 CFR Chapter V and/or on OFAC's website at http://www.treas.gov/offices/enforcement/ofac.
7. Delivery: Contractor shall deliver said materials purchased on this contract to the Member issuing a Purchase Order. Conforming product shall be shipped within 7 days of receipt of Purchase Order. If delivery is not or cannot be made within this time period the Contractor must receive authorization from the purchasing agency for the delayed delivery. At this point the participating entity may cancel the order if estimated shipping time is not acceptable.
8. Inspection & Acceptance: If defective or incorrect material is delivered, purchasing agency may make the determination to return the material to the Contractor at no cost to the purchasing agency. The Contractor agrees to pay all shipping costs for the return shipment. Contractor shall be responsible for arranging the return of the defective or incorrect material.
9. Invoices: The awarded Contractor shall submit invoices to the participating entity clearly stating "Per TCPN Contract". The shipment tracking number or pertinent information for verification shall be made available upon request.
10. Tax Exempt Status: It is the Contractor's responsibility to know the tax laws in the state where the Contractor is performing a Member.
11. Additional Charges: All deliveries shall be freight prepaid, F.O.B. destination and shall be included in all pricing offered unless otherwise clearly stated in writing.
12. Prevailing Wage: It shall be the responsibility of the Contractor to comply, when applicable, with the prevailing wage legislation in effect in the jurisdiction of the purchaser (Region 4 ESC or its Members). It shall further be the responsibility of the Contractor to monitor the prevailing wage rates as established by the appropriate Department of Labor for any increase in rates during the term of this contract and adjust wage rates accordingly.
13. Audit rights: Contractor shall, at Contractor's sole expense, maintain appropriate due diligence of all purchases made by Region 4 ESC and any entity that utilizes this Agreement. TCPN and Region 4 ESC each reserve the right to audit the accounting for a period of three (3) years from the time such purchases are made. This audit right shall survive termination of this Agreement for a period of one (3) year from the effective date of termination. In the State of New Jersey, this audit right shall survive termination of this Agreement for a period of five (5) years from the date of final payment. Such records shall be made available to the New Jersey Office of the State Comptroller upon request. Region 4 ESC shall have the authority to conduct random audits of Contractor's pricing that is offered to eligible entities at Region 4 ESC's sole cost and expense.
Notwithstanding the foregoing, in the event that Region 4 ESC is made aware of any pricing being offered to eligible agencies that is materially inconsistent with the pricing under this agreement, Region 4 ESC shall have the ability to conduct an extensive audit of Contractor's pricing at Contractor's sole cost and expense. Region 4 ESC may conduct the audit internally or may engage a third-party auditing firm. In the event of an audit, the requested materials shall be provided in the format and at the location designated by Region 4 ESC or TCPN.
14. Current products: Proposals shall be for materials and equipment in current production and marketed to the general public and education/government agencies at the time the proposal is submitted.
15. Discontinued products: If a product or model is discontinued by the manufacturer, Contractor may substitute a new product or model if the replacement product meets or exceeds the specifications and performance of the discontinued model and if the pricing

is the same or greater than the discontinued model.
16. Warranty conditions: All supplies, equipment and services shall include manufacturer's minimum standard warranty and one (2) year labor warranty unless otherwise agreed to in writing.
17. Cleanup: Contractor shall clean up and remove all debris and rubbish resulting from their work as required or directed by Member. Upon completion of the work, the premises shall be left in good repair and an orderly, neat, clean and unobstructed condition.
18. Preparation: Contractor shall not begin a project for which Member has not prepared the site, unless Contractor does the preparation work at no cost, or until Member includes the cost of site preparation in a purchase order. Site preparation includes, but is not limited to: moving furniture, installing wiring for networks or power, and similar pre-installation requirements.
19. Employment Eligibility. Contractor warrants compliance with the Federal Immigration and Nationality Act (FINA), and all other federal and state immigration laws and regulations. The Contractor further warrants that it is in compliance with the various state statues of the states it will operate in. The Member may request verification of compliance from any Contractor or subcontractor performing work for a Member. The Member reserves the right to confirm compliance in accordance with applicable laws. Compliance should be in accordance with the E-Verify Employee Eligibility Verification Program.
20. Environmental Compliance. Contractor and any subcontractors will be trained on the handling and application of hazardous materials and chemicals, including the disturbance or dismantling of structures containing hazardous materials in compliance with 29 CFR 1910 and 1926. Contractor agrees to comply with requirements for disposal, removal or demolition of asbestos or asbestos-containing materials or buildings within the requirement of 40 CFR, Part 61, and Subpart A. Contractor agrees to comply with the OSHA standard regarding first-aid treatment and location communication with Contractor and any subcontractors.
21. Felony Conviction Notice and Child and Sex Offender Notice. Contractor and their subcontractors selected to perform projects through the Contractor Network will be required to complete and submit a Felony Conviction Notice and Child and Sex Offender Notice for personnel. These forms will be submitted to TCPN and/or the TCPN Member as required.
22. Fingerprint & Background Checks. If required to provide services on school district property, at least five (5) times during a month, Contractor shall submit a full set of fingerprints to the school district if requested of each person or employee who may provide such service. Alternately, the school district may fingerprint those persons or employees. The district shall conduct a fingerprint check in accordance with the appropriate state and federal laws of all contractors and subcontractors and their employees for which fingerprints are submitted to the district. Contractor and subcontractors shall not provide services on school district properties until authorized by the district. The Contractor shall comply with fingerprinting requirements in accordance with appropriate statutes in the state in which the work is being performed unless otherwise exempted. Contractor shall comply with governing board policy in the school district in which work is being performed.
23. Registered sex offender restrictions: For work to be performed at schools, Contractor agrees that no employee or employee of a subcontractor who has been adjudicated to be a registered sex offender will perform work at any time when students are or are reasonably expected to be present. Contractor agrees that a violation of this condition shall be

considered a material breach and may result in the cancellation of the purchase order at the Member's discretion. Contractor must identify any additional costs associated with compliance of this term. If no costs are specified, compliance with this term will be provided at no additional charge.
24. Safety measures: Contractor shall take all reasonable precautions for the safety of employees on the worksite, and shall erect and properly maintain all necessary safeguards for protection of workers and the public. Contractor shall post warning signs against all hazards created by its operation and work in progress. Proper precautions shall be taken pursuant to state law and standard practices to protect workers, general public and existing structures from injury or damage. Contractor must maintain an Experience Modification Rate ("EMR") below 1.25 for continued participation in the Contractor Network.
25. 25. OSHA Compliance. All field processes and procedures must comply with applicable OSHA general and construction industry standards and regulations. A minimum of 10-hour of OSHA training for employees of Contractor and any subcontractors is required.
26. Smoking: Persons working under the contract shall adhere to local smoking policies. Smoking will only be permitted in posted areas or off premises.
27. Stored materials: Upon prior written agreement between the Contractor and Member, payment may be made for materials not incorporated in the work but delivered and suitably stored at the site or some other location, for installation at a later date. An inventory of the stored materials must be provided to Member prior to payment. Such materials must be stored and protected in a secure location, and be insured for their full value by the Contractor against loss and damage. Contractor agrees to provide proof of coverage and/or addition of Member as an additional insured upon Member's request. Additionally, if stored offsite, the materials must also be clearly identified as property of buying Member and be separated from other materials. Member must be allowed reasonable opportunity to inspect and take inventory of stored materials, on or offsite, as necessary. Until final acceptance by the Member, it shall be the Contractor's responsibility to protect all materials and equipment. The Contractor warrants and guarantees that title for all work, materials and equipment shall pass to the Member upon final acceptance.
28. Disclosures: Contractor affirms that he/she has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor or service to a public servant in connection with this contract. Include a complete description of any and all relationships that might be considered a conflict of interest in doing business with Member participants in TCPN.
The Contractor affirms that, to the best of his/her knowledge, the offer has been arrived at independently, and is submitted without collusion with anyone to obtain information or gain any favoritism that would in any way limit competition or give an unfair advantage over other Contractors in the award of this contract.
29. Franchise Tax: The Contractor hereby certifies that he/she is not currently delinquent in the payment of any franchise taxes.
30. Certificates of Insurance: Certificates of insurance shall be delivered to the Region 4 ESC Member participant prior to commencement of work. The insurance company shall be licensed in the applicable state in which work is being conducted. The awarded Contractor shall give the participating entity a minimum of ten (10) days' notice prior to any modifications or cancellation of policies. The awarded Contractor shall require all subcontractors performing any work to maintain coverage as specified. The awarded Contractor shall make the Member, Region 4 ESC, and the manufacturer of the roofing

system being installed on the project additional insured parties under its Comprehensive General Liability policy. The awarded Contractor shall comply with any other insurance requirements of the Member included in the contract documents for the project that has been awarded to Contractor.
31. Indemnity. Contractor shall defend, indemnify, and hold harmless Tremco, Region 4 ESC; TCPN and its Members, administrators, employees and agents; and the manufacturer of the roofing system being installed, against all claims, damages, losses and expenses, including but not limited to reasonable attorneys' fees, arising out of, resulting from or related to the actions or omissions of the Contractor, Contractor employees or Contractor subcontractors in connection with execution of or performance under a contract with a Member, including any supplemental agreements with Members. Any litigation involving either Region 4 ESC or TCPN, its administrators and employees and agents will be in Harris County, Texas. Any litigation involving TCPN Members will be in the jurisdiction of the Member.
32. Legal Obligations: It is the Contractor's responsibility to be aware of and comply with all local, state, and federal laws governing the sale of products/services identified in this RFP and any awarded contract and shall comply with all while fulfilling the RFP. Applicable laws and regulation must be followed even if not specifically identified herein.

F.

PART 2 - PRODUCTS

2.1 INFILL MATERIALS

A. Use infill materials matching existing membrane roofing system materials unless otherwise indicated.

2.2 TEMPORARY ROOFING MATERIALS

A. Design and selection of materials for temporary roofing are responsibilities of Contractor.

2.3 TEMPORARY ROOF DRAINAGE

A. Design and selection of materials for temporary roof drainage are responsibilities of the Contractor.

2.4 AUXILIARY REROOFING MATERIALS

A. General: Auxiliary reroofing preparation materials recommended by roofing system manufacturer for intended use and compatible with components of existing and new membrane roofing system.

B. Base Sheet Fasteners: Capped head, factory-coated steel fasteners, listed in FM Approval's "Approval Guide."

C. Metal Flashing Sheet: Metal flashing sheet is specified in Section 076200 "Sheet Metal Flashing and Trim."

PART 3 - EXECUTION

3.1 PREPARATION, GENERAL

A. Existing Roof Protection: Protect existing membrane roofing system that is indicated not to be reroofed.

1. Loosely lay 1-inch- (25-mm-) minimum thick, molded expanded polystyrene (MEPS) insulation over the roofing membrane in areas indicated. Loosely lay 15/32-inch (12-mm) plywood or OSB panels over MEPS. Extend MEPS past edges of plywood or OSB panels a minimum of 1 inch (25 mm).

2. Limit traffic and material storage to areas of existing roofing membrane that have been protected.

3. Maintain temporary protection and leave in place until replacement roofing has been completed. Remove temporary protection on completion of reroofing.

B. Roof Drain Protection: Maintain roof drains in functioning condition to ensure roof drainage at end of each workday. Prevent debris from entering or blocking roof drains and conductors. Use roof-drain plugs specifically designed for this purpose. Remove roof-drain plugs at end of each workday, when no work is taking place, or when rain is forecast.

1. If roof drains are temporarily blocked or unserviceable due to roofing system removal or partial installation of new membrane roofing system, provide alternative drainage method to remove water and eliminate ponding. Do not permit water to enter into or under existing membrane roofing system components that are to remain.

C. Verify that rooftop utilities and service piping have been shut off before beginning the Work.

3.2 ROOF TEAR-OFF

A. General: Notify Owner each day of extent of roof tear-off proposed for that day and obtain authorization to proceed.

B. Remove loose aggregate from aggregate-surfaced built-up bituminous roofing using a power broom.

C. Roof Tear-Off: Remove existing roofing membrane and other membrane roofing system components down to the deck.

1. Remove cover boards, roof insulation and substrate boards.

2. Bitumen and felts that are firmly bonded to concrete decks are permitted to remain if felts are dry. Remove unadhered bitumen and felts and wet felts.

3. Remove excess asphalt from steel deck. A maximum of 15 lb/100 sq. ft. (0.72 kg/sq. m) of asphalt is permitted to remain on steel decks.

4. Remove fasteners from deck or cut fasteners off slightly above deck surface.

3.3 DECK PREPARATION

A. Inspect deck after tear-off of membrane roofing system.

3.4 EXISTING ROOF REPAIR

A. At Fire Department B and Hallway Roofs as indicated in the drawings:

1. Spud back area marked in spray paint.

2. Inspect for any open flashings, splits or defects. Seal with Tremseal Pro and repair with ELS and Burmesh. Reflood and rock in standard Burmastic Adhesive.

3.5 DISPOSAL

A. Collect demolished materials and place in containers. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.

1. Storage or sale of demolished items or materials on-site is not permitted.

B. Transport and legally dispose of demolished materials off Owner's property.

3.6 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by preparation for re-roofing operations. Return adjacent areas to condition existing before operations began.

END OF SECTION 070150

SECTION 075600.13 - FLUID-APPLIED MEMBRANE ROOFING, INSULATED

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes fluid-applied roof membrane system on insulated metal decks, consisting of the following:

1. Roof insulation and cover board.
2. Base sheet.
3. Application of fluid-applied, fabric-reinforced, polyurethane roof membrane and membrane flashings.

B. Related Requirements:

1. Division 00 Document "Available Information," for pre-construction test reports.
2. Division 07 Section "Preparation for Re-Roofing" for existing roofing tearoff and substrate preparation for installation of new roofing membrane.

C. Allowances: Refer to Division 01 Section "Allowances" for description of Work in this Section affected by allowances.

1.3 ROOFING CONFERENCES

A. Roofing Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." Review methods and procedures related to roofing system.

1. Meet with Owner; roofing materials manufacturer's representative; roofing Installer including project manager and foreman; and installers whose work interfaces with or affects roofing including installers of roof accessories and roof-mounted equipment requiring removal and replacement as part of the Work.
2. Review methods and procedures related to preparation, including membrane roofing system manufacturer's written instructions.
3. Review drawings and specifications.

4. Review temporary protection requirements for existing roofing system that is to remain, during and after installation.

5. Review roof drainage during each stage of roofing and review roof drain plugging and plug removal procedures.

6. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

7. Review base flashings, special roofing details, drainage, penetrations, equipment curbs, and condition of other construction that will affect re-coating.

8. Review HVAC shutdown and sealing of air intakes.

9. Review shutdown of fire-suppression, -protection, and -alarm and -detection systems.

10. Review procedures for asbestos removal or unexpected discovery of asbestos-containing materials.

11. Review governing regulations and requirements for insurance and certificates if applicable.

12. Review existing conditions that may require notification of Owner before proceeding.

1.4 DEFINITIONS

A. Roofing Terminology: Refer to ASTM D 1079 and glossary in NRCA's "The NRCA Roofing Manual" for definition of terms related to roofing work in this Section.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An employer of workers trained and certified by manufacturer, including a full-time on-site supervisor with a minimum of five years' experience installing products comparable to those specified, able to communicate verbally with Contractor, Architect, and employees, and the following:

1. Qualified by the manufacturer to install manufacturer's product and furnish warranty of type specified.

B. Manufacturer Qualifications: Approved manufacturer listed in this Section, with minimum five years experience in manufacture of specified products in successful use in similar applications.

C. Roofing Inspector Qualifications: A technical representative of manufacturer not engaged in the sale of products and experienced in the installation and maintenance of the specified roofing system, qualified to perform roofing observation and inspection specified in Field Quality Control Article, to determine Installer's compliance with the requirements of this Project, and approved by the manufacturer to issue warranty certification. The Roofing Inspector shall be one of the following:

1. An authorized full-time technical employee of the manufacturer.

2. An independent party certified as a Registered Roof Observer by the Roof Consultants Institute, retained by the Contractor or the Manufacturer and approved by the Manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.

B. Handle and store roofing materials, and place equipment in a manner to avoid significant or permanent damage to deck or structural supporting members.

C. Protect materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting.

1.7 PROJECT CONDITIONS

A. Protect building, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from roofing operations.

B. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.

C. Weather Limitations: Proceed with roofing work only when existing and forecasted weather conditions permit Work to proceed without water entering into existing roofing system or building.

1. Store all materials prior to application at temperatures between 60 and 90 deg. F.

2. Apply coatings within range of ambient and substrate temperatures recommended by manufacturer. Do not apply materials when air temperature is below 50 or above 110 deg. F.

3. Do not apply roofing in snow, rain, fog, or mist.

D. Daily Protection: Coordinate installation of roofing so insulation and other components of roofing system not permanently exposed are not subjected to precipitation or left uncovered at the end of the workday or when rain is forecast.

E. Owner will occupy portionsof building immediately below roofing area. Conduct roofing so Owner's operations will not be disrupted. Provide Owner with not less than 72 hours' notice of activities that may affect Owner's operations.

1.8 WARRANTY

A. Manufacturer's Warranty: Manufacturer's standard or customized form in which manufacturer agrees to repair or replace components of fluid-applied membrane roofing that fail in materials or workmanship within specified warranty period.

1. Warranty includes roofing membrane, base flashings, roof membrane accessories, roof insulation and cover boards and other components of fluid-applied roofing.

2. Qualified Installer Requirement: Installer must meet requirements of Quality Assurance Article.

3. Installation Inspection Requirement: By Roofing Inspector in accordance with requirements of Part 3 Field Quality Control Article.

4. Warranty Period: 15 years from date of completion of work.

B. Installer's Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering the Work of this Section and related Sections indicated below, including all components of fluid-applied membrane roofing.

1. Warranty Period: Twoyears from date of Substantial Completion.

C. Extended Roof System Warranty: Warranties specified in this Section include the following components and systems specified in other sections supplied by or approved by the roofing system Manufacturer , and installed by the roofing system Installer:

1. Sheet metal flashing and trim, including roof penetration flashings.

2. Manufactured copings, roof edge, counterflashings, and reglets.

3. Roof curbs, hatches, and penetration flashings.

4. Roof and parapet expansion joint assemblies.

D. Manufacturer Inspection and Preventive Maintenance Requirement: By manufacturer's technical representative, to report maintenance responsibilities to Owner necessary for preservation of Owner's warranty rights. The cost of manufacturer's inspections and preventive maintenance is included in the Contract Sum. Inspections to occur in Years 2, 5, 15 following completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Manufacturer/Product: The roof system specified in this Section is based upon products of Tremco, Inc., Beachwood, OH, (800) 562-2728, www.tremcoroofing.com that are named in other Part 2 articles. Provide specified products.

B. Source Limitations: Obtain components for roofing system from same manufacturer as membrane roofing or manufacturer approved by membrane roofing manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. General: Provide roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.

1. Accelerated Weathering: Roofing system shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.

B. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.

C. Roofing System Design: Provide roofing system that is identical to systems that have been successfully tested by a qualified testing and inspecting agency in accordance with ANSI/FM 4474, UL 580, or UL 1897, and to resist uplift pressures.

D. FM Global Standards: Roofing, base flashings, and component materials shall be identical to materials that comply with requirements in FM Global 4470 as part of a roofing system listed or approved by FM Global for Class 1 or non-combustible construction, as applicable. Identify applicable materials with FM Global markings. Comply with Fire/Windstorm Classification and Hail Resistance Rating below.

E. Flashings: Comply with requirements of Division 07 Sections "Sheet Metal Flashing and Trim" and "Manufactured Roof Specialties." Provide base flashings, perimeter flashings, detail flashings and component materials that comply with requirements and recommendations of the following:

1. FMG 1-49 Loss Prevention Data Sheet for Perimeter Flashings.

2. FMG 1-29 Loss Prevention Data Sheet for Above Deck Roof Components.

3. NRCA Roofing Manual (Sixth Edition) for construction details and recommendations.

4. SMACNA Architectural Sheet Metal Manual (Seventh Edition) for construction details.

F. Exterior Fire-Test Exposure: ASTM E 108, Class A; for application and roof slopes indicated, as determined by testing identical membrane roofing materials by a qualified testing agency. Materials shall be identified with appropriate markings of applicable testing agency.

G. Fire-Resistance Ratings: Where indicated, provide fire-resistance-rated roof assemblies identical to those of assemblies tested for fire resistance per ASTM E 119 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

2.3 MATERIALS

A. General: Roofing materials recommended by roofing system manufacturer for intended use and compatible with components of existing membrane roofing system.

B. Temporary Roofing Materials: Selection of materials and design of temporary roofing is responsibility of Contractor.

C. General: Provide adhesive and sealant materials recommended by roofing manufacturer for intended use and compatible with built-up roofing.

1. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.

2.4 BASE SHEET MATERIALS

A. Base Sheet:

1. ASTM D 4601 Type II non-perforated SBS-modified asphalt coated fiberglass/fiberglass/ polyester reinforced high tensile strength sheet dusted with fine mineral surfacing on both sides.

a. Basis of design product: Tremco, BURmastic Composite Ply HT.

b. Tensile Strength, minimum, ASTM D 5147: Machine direction, 165 lbf/in (28.9 kN/m); Cross machine direction, 150 lbf/in (26.3 kN/m).

c. Tear Strength, minimum, ASTM D 5147: Machine direction, 210 lbf (0.9 kN); Cross machine direction, 185 lbf (0.8 kN).

d. Elongation at 77 deg. F (25 deg. C), minimum, ASTM D 5147: 6 percent.

e. Thickness, minimum, ASTM D 146: 0.055 inch (1.4 mm).

B. Base Sheet Adhesive:

1. Cold-applied roofing interply adhesive, one-part fibrated, solvent-free low-VOC, formulated for compatibility and use with specified roofing membranes and flashings.

a. Basis of design product: Tremco, BURmastic Adhesive SF.

b. Volatile Organic Compounds (VOC), maximum, ASTM D 6511: 25 g/L.

c. Nonvolatile Content, minimum, ASTM D 6511: 95 percent.

2. Seal all terminations and transitions with AlphaGuard MT Base Coat and Permafab.

2.5 FLUID-APPLIED ROOFING MEMBRANE

A. Polyurethane Elastomeric Fluid-Applied System: Two-coat reinforced fluid-applied roofing membrane formulated for application over prepared existing roofing substrate.

1. Base Coat:

a. Polyurethane roof coating system base coat, single-part moisture-curing, for use with a compatible top coat.

1) Basis of design product: Tremco, AlphaGuard MT Base Coat.

2) Combustion Characteristics, UL 790: Class A, for two-coat system.

3) Volatile Organic Compounds (VOC), maximum, ASTM D 3960: 35 g/L.

4) Accelerated Weathering, 5000 hours, ASTM G 154: Pass.

5) Hardness, Shore A, minimum, ASTM D 2240: 80.

6) Solids, by volume, ASTM D 2697, minimum: 87 percent.

2. Top Coat:

a. Polyurethane roof coating system top coat, low odor low VOC single-part, for application over compatible base coat.

1) Basis of design product: Tremco, AlphaGuard MT TC.

2) Combustion Characteristics, UL 790: Class A, for two-coat system.

3) Volatile Organic Compounds (VOC), maximum, ASTM D 3960: 40 g/L.

4) Solar Reflectance Index (SRI), ASTM E 1980: Not less than 105.

5) Accelerated Weathering, 5000 hours, ASTM G 154: Pass.

6) Hardness, Shore A, minimum, ASTM D 2240: 85.

7) Solids, by volume, ASTM D 2697: 87.

3. Reinforcing Fabric: Tremco, AlphaGuard Glass Mat.

2.6 AUXILIARY ROOFING MEMBRANE MATERIALS

A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with existing roofing system and fluid-applied roofing system.

B. Structural Concrete/Masonry Primer: Two-component, 100 percent solids, epoxy penetrating primer for concrete deck surfaces.

1. Basis of Design Product:. Tremco, AlphaGuard C-Prime

C. Metal Surface Primer: Single-component, water based primer to promote adhesion of base coat to metal surfaces.

1. Basis of Design Product:. Tremco, AlphaGuard M-Prime

D. Asphaltic Surfaces Primer: Single-component, multi-substrate primer to promote adhesion of base coat to surfaces recommended by manufacturer.

1. Basis of Design Product: Tremco, AlphaGuard Re-Prime AlphaGuard WB Primer.

E. Joint Sealant: Single component, high solids, moisture curing polyurethane sealant recommended by coating manufacturer.

F. Aggregate: For finish coat slip resistance: Silica sand, 20 - 40 mesh.

G. Asphalt Roofing Cement: ASTM D 4586, asbestos free, of consistency required by roofing manufacturer for application.

H. Mastic Sealant: Polyisobutylene, plain or modified bitumen, nonhardening, nonmigrating, nonskinning, and nondrying.

I. Miscellaneous Accessories: Provide miscellaneous accessories recommended by roofing system manufacturer.

2.7 ROOF INSULATION

A. General: Preformed roof insulation boards manufactured or approved by roofing manufacturer, selected from manufacturer's standard sizes suitable for application, of thicknesses indicated and that produce FM Global-approved roof insulation.

B. Roof Insulation:

1. Polyisocyanurate board insulation, ASTM C 1289 Type II Class 1 CFC- and HCFC- free, with recycled content glass-fiber mat facer on both major surfaces. CCMC listed.

a. Basis of design product: Tremco, Trisotech.

b. Compressive Strength, ASTM C1621: Grade 2: 20 psi (138 kPa).

c. Conditioned Thermal Resistance at 75 deg. F (24 deg. C): 14.4 at 2.5 inches (50.8 mm) thick.

C. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated.

2.8 INSULATION ACCESSORIES

A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatible with built-up roofing.

B. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FM Global 4470, designed for fastening roof insulation to substrate and acceptable to roofing manufacturer.

C. Roof Insulation Adhesive:

1. Cold fluid-applied bead-applied low-rise adhesive, two-component solvent-free low odor elastomeric urethane, formulated to adhere roof insulation to substrate.

a. Basis of design product: Tremco, Low Rise Foam Insulation Adhesive.

b. Flame Spread Index, ASTM E 84: 10.

c. Smoke Developed Index, ASTM E 84: 30.

d. Volatile Organic Compounds (VOC), maximum, ASTM D 3960: 0 g/L.

e. Tensile Strength, minimum, ASTM D 412: 250 psi (1724 kPa).

f. Peel Adhesion, minimum, ASTM D 903: 17 lbf/in (2.98 kN/m).

g. Flexibility, 70 deg. F (39 deg. C), ASTM D 816: Pass.

D. Insulation Cant Strips: ASTM C 208, Type II, Grade 1, cellulosic-fiber insulation board.

E. Wood Cant Strips: Comply with requirements in Division 06 Section " Miscellaneous Rough Carpentry."

F. Tapered Edge Strips: ASTM C 208, Type II, Grade 1, cellulosic-fiber insulation board.

G. Cover Board:

1. Cellulosic fiber reinforced water-resistant gypsum panel, ASTM C 1278/C 1278M.

a. Basis of design product: Tremco/USG Securock.

b. Thickness: 1/4 inch

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with the following requirements and other conditions affecting performance of roofing system:

1. Verify that roof openings and penetrations are in place and curbs are set and braced and that roof drain bodies are securely clamped in place.

2. Verify that, blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation. wood cants

3. Metal Deck:

a. Verify that surface plane flatness and fastening ofsteel roof deckcomplies with requirements in Division 05 Section "Steel Decking."

b. Verify that deck is securely fastened with no projecting fasteners and with no adjacent units in excess of 1/16 inch (1.6 mm) out of plane relative to adjoining deck.

3.2 PREPARATION

A. Remove existing roofing and protect existing building in accordance with requirements of Section 070150 "Preparation for Re-Roofing."

B. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing manufacturer's written instructions. Remove sharp projections.

C. Protect existing roofing systemthat is indicated to remain, and adjacent portions of building and building equipment.

1. Comply with warranty requirements of existing roof membrane manufacturer.

2. Mask surfaces to be protected. Seal joints subject to infiltration by coating materials.

3. Limit traffic and material storage to areas of existing roofing membrane that have been protected.

4. Maintain temporary protection and leave in place until replacement roofing has been completed.

D. Shut down air intake equipmentin the vicinity of the Work in coordination with the Owner. Cover air intake louvers before proceeding with re-coating work that could affect indoor air quality or activate smoke detectors in the ductwork.

1. Verify that rooftop utilities and service piping affected by the Work have been shut off before commencing Work.

E. Maintain roof drains in functioning condition to ensure roof drainage at end of each workday. Prevent debris from entering or blocking roof drains and conductors. Use roof-drain plugs specifically designed for this purpose. Remove roof-drain plugs at end of each workday, when no work is taking place, or when rain is forecast.

1. Do not permit water to enter into or under existing membrane roofing system components that are to remain.

3.3 FLUID-APPLIED MEMBRANE ROOFING INSTALLATION, GENERAL

A. Install roofing membrane according to roofing manufacturer's written instructions.

1. Commence installation of roofing in presence of manufacturer's technical personnel.

B. Coordinate installation of roofing so insulation and other components of roofing not permanently exposed are not subjected to precipitation or left uncovered at the end of the workday or when rain is forecast.

1. Provide tie-offs at end of each day's work to cover exposed roofing sheets and insulation with a course of coated felt set in roofing cement with joints and edges sealed.

2. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing.

3. Remove and discard temporary seals before beginning work on adjoining roofing.

C. Substrate-Joint Penetrations: Prevent fluid-applied materials and adhesives from penetrating substrate joints, entering building, or damaging built-up roofing components or adjacent building construction.

3.4 INSULATION INSTALLATION

A. Comply with roofing manufacturer's written instructions for installing roof insulation.

B. Installtapered insulationunder area of roofing to conform to slopes indicated.

C. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch (6 mm) with insulation.

1. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.

D. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.

E. Install tapered edge strips at perimeter edges of roof that do not terminate at vertical surfaces.

F. Adhered Insulation: Install each layer of insulation and adhere to substrate as follows:

1. Set top layer of insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.

G. Mechanically Fastened Insulation: Install bottom layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.

3.5 BASE SHEET INSTALLATION

A. Install 2 ply base sheet starting at low point of roofing. Align base sheet without stretching. Shingle side laps of base a minimum of 4 inches. Shingle in direction to shed water. Extend base sheets over edges and terminate above cants.

1. Embed base sheet in cold-applied membrane adhesive applied at rate required by roofing manufacturer, to form a uniform membrane without ply sheets touching.

B. Extend base flashing up walls or parapets a minimum of 8 inches above roofing and 6 inches (150 mm) onto field of roofing.

C. Mechanically fasten top of base flashing securely at terminations and perimeter of roofing.

1. Seal top termination of base flashing with specified sealant.

2. Seal top termination of base flashing with a metal termination bar.

D. Install stripping according to roofing manufacturer's written instructions where metal flanges and edgings are set on roofing.

1. Flashing Sheet Stripping: Install flashing sheet stripping in specified cold adhesive and extend onto roofing membrane.

E. Roof Drains: Install base sheet in cold adhesive around drain bowl. Base sheet must be installed so that it will be under compression from the clamping ring. Install base coat, fabric reinforcement, and top coat over base sheet. Install drain clamping ring and strainer.

3.6 FLUID-APPLIED FLASHING APPLICATION

A. Fluid-Applied Flashing and Detail Base Coat Application: Complete base coat and fabric reinforcement at parapets, curbs, penetrations, and drains prior to application of field of fluid-applied membrane. Apply base coat in accordance with manufacturer's written instructions.

1. Extend coating minimum of 8 inches up vertical surfaces and 4 inches onto horizontal surfaces.

2. Back roll to achieve minimum wet mil coating thickness of 48 mils unless otherwise recommended by manufacturer; verify thickness of base coat as work progresses.

3. Embed fabric reinforcement into wet base coat. Lap adjacent flashing pieces of fabric minimum 3 inches along edges and 6 inches at end laps.

4. Roll surface of fabric reinforcing to completely embed and saturate fabric. Leave finished base coat with fabric free of pin holes, voids, or openings.

5. Roof Drains: Install base coat onto surrounding membrane surface and metal drain bowl flange. Install target piece of fabric reinforcement immediately into wet base coat and roll to fully embed and saturate fabric. Reinstall clamping ring and strainer following application of top coat. Replace broken drain ring clamping bolts.

6. Allow base coat to cure prior to application of top coat.

7. Following curing of base coat and prior to application of top coat, sand raised or exposed edges of fabric reinforcement.

B. Fluid-Applied Flashing and Detail Top Coat Application: Apply top coat uniformly in a complete installation to flashings.

1. Prime base coat prior to application of top coat if top coat is not applied within 72 hours of the base coat application, using manufacturer's recommended primer.

2. Apply top coat to flashings extending coating up vertical surfaces and out onto horizontal surfaces 4 inches. Install top coat over field base coat and spread coating evenly.

3. Back roll to achieve wet mil thickness of 32 mils unless otherwise recommended by manufacturer.

4. Avoid foot traffic on new fluid-applied membrane for a minimum of 24 hours.

3.7 FLUID-APPLIED MEMBRANE APPLICATION

A. Base Coat: Apply base coat to field of membrane in accordance with manufacturer's written instructions.

1. Apply base coat on prepared and primed surfaces and spread coating evenly.

2. Back roll to achieve minimum wet mil coating thickness of 48 mils unless otherwise recommended by manufacturer; verify thickness of base coat as work progresses.

3. Embed fabric reinforcement into wet base coat. Lap adjacent pieces of fabric minimum 3 inches along edges and 6 inches at end laps.

4. Roll surface of fabric reinforcing to completely embed and saturate fabric. Leave finished base coat with fabric free of pin holes, voids, or openings.

5. Allow base coat to cure prior to application of top coat.

6. Following curing of base coat and prior to application of top coat, sand raised or exposed edges of fabric reinforcement.

B. Top Coat: Apply top coat to field of membrane and flashings uniformly in a complete, continuous installation.

1. Prime base coat prior to application of top coat if top coat is not applied within 72 hours of the base coat application, using manufacturer's recommended primer.

2. Apply top coat extending coating up vertical surfaces and out onto horizontal surfaces. Install top coat over field base coat and spread coating evenly.

3. Back roll to achieve wet mil thickness of 32 mils unless otherwise recommended by manufacturer.

4. Avoid foot traffic on new fluid-applied membrane for a minimum of 24 hours.

C. Slip-Resistant Walkway Topcoat: Apply walkway second topcoat following application and curing of top coat.

1. Prime first top coat prior to application of walkway top coat if walkway top coat is not applied within 72 hours of the first top coat application, using manufacturer's recommended primer.

2. Back roll to achieve wet mil thickness of 20 mils unless otherwise recommended by manufacturer.

3. Broadcast 20 to 30 lbs. per 100 sq. ft. of Slip-Resistant Top Coat Aggregate in wet top coat.

4. Back roll sand and top coat creating even dispersal of sand. Remove masking immediately.

3.8 FIELD QUALITY CONTROL

A. Roofing Inspector: Owner will engage a qualified roofing inspector to perform roof tests and inspections and to prepare test reports.

B. Roof Inspection: Contractor shall engage roofing system manufacturer's technical personnel to inspect roofing installation, and submit report to the Architect. Notify Architect or Owner 48 hours in advance of dates and times of inspections. Inspect work as follows:

1. Upon completion of preparation of first component of work, prior to application of re-coating materials.

2. Following application of re-coating to flashings and application of base coat to field of roof.

3. Upon completion of re-coating but prior to re-installation of other roofing components.

C. Repair fluid-applied membrane where test inspections indicate that they do not comply with specified requirements.

D. Arrange for additional inspections, at Contractor's expense, to verify compliance of replaced or additional work with specified requirements.

3.9 PROTECTING AND CLEANING

A. Protect roofing system from damage and wear during remainder of construction period.

B. Correct deficiencies in or remove coating that does not comply with requirements, repair substrates, and reapply coating.

C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 075600.13

SECTION 076200 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes:

1. Roof drainage sheet metal fabrications.
2. Low-slope roof sheet metal fabrications.
3. Manufactured reglets and counterflashings.
4. Miscellaneous sheet metal flashing and trim.

B. Related Requirements:

1. Division 06 Section "Miscellaneous Rough Carpentry"for wood nailers, curbs, and blocking.

1.3 COORDINATION

A. Coordinate sheet metal flashing and trim layout and seams with sizes and locations of penetrations to be flashed, and joints and seams in adjacent materials.

B. Coordinate sheet metal flashing and trim installation with adjoining roofing and wall materials, joints, and seams to provide leakproof, secure, and noncorrosive installation.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site in coordination with roofing Preinstallation conference.

1. Review special roof details, roof drainage, roof-penetration flashing, equipment curbs, and condition of other construction that affect sheet metal flashing and trim.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each manufactured product and accessory.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage. Store sheet metal flashing and trim materials away from uncured concrete and masonry.

B. Protect strippable protective covering on sheet metal flashing and trim from exposure to sunlight and high humidity, except to extent necessary for period of sheet metal flashing and trim installation.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.

2.2 SHEET METALS

A. General: Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.

2.3 UNDERLAYMENT MATERIALS

A. Felt: ASTM D 226/D 226M, Type II (No. 30), asphalt-saturated organic felt; nonperforated.

2.4 MISCELLANEOUS MATERIALS

A. General: Provide materials and types of fasteners, solder, protective coatings, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and as recommended by manufacturer of primary sheet metal or manufactured item unless otherwise indicated.

B. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.

1. General: Blind fasteners or self-drilling screws, gasketed, with hex-washer head.

a. Exposed Fasteners: Heads matching color of sheet metal using plastic caps or factory-applied coating. Provide metal-backed EPDM or PVC sealing washers under heads of exposed fasteners bearing on weather side of metal.

b. Blind Fasteners: High-strength aluminum or stainless-steel rivets suitable for metal being fastened.

c. Spikes and Ferrules: Same material as gutter; with spike with ferrule matching internal gutter width.

2. Fasteners for Aluminum Sheet: Aluminum or Series 300 stainless steel.

3. Fasteners for Stainless-Steel Sheet: Series 300 stainless steel.

4. Fasteners for Zinc-Coated(Galvanized) and Aluminum-Zinc Alloy-Coated Steel Sheet: Series 300 stainless steel or hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.

C. Solder:

1. For Stainless Steel: ASTM B 32, Grade Sn60, with acid flux of type recommended by stainless-steel sheet manufacturer.

D. Sealant Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch (13 mm) wide and 1/8 inch (3 mm) thick.

E. Elastomeric Sealant: ASTM C 920, elastomeric polyurethanepolymer sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.

F. Butyl Sealant: ASTM C 1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for hooked-type expansion joints with limited movement.

2.5 FABRICATION, GENERAL

A. General: Custom fabricate sheet metal flashing and trim to comply with details shown and recommendations in cited sheet metal standard that apply to design, dimensions, geometry, metal thickness, and other characteristics of item required. Fabricate sheet metal flashing and trim in shop to greatest extent possible.

1. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.

2. Obtain field measurements for accurate fit before shop fabrication.

3. Form sheet metal flashing and trim to fit substrates without excessive oil canning, buckling, and tool marks; true to line, levels, and slopes; and with exposed edges folded back to form hems.

4. Conceal fasteners and expansion provisions where possible. Do not use exposed fasteners on faces exposed to view.

B. Fabrication Tolerances: Fabricate sheet metal flashing and trim that is capable of installation to a tolerance of 1/4 inch in 20 feet (6 mm in 6 m) on slope and location lines indicated on Drawings and within 1/8-inch (3-mm) offset of adjoining faces and of alignment of matching profiles.

C. Expansion Provisions: Form metal for thermal expansion of exposed flashing and trim.

D. Sealant Joints: Where movable, nonexpansion-type joints are required, form metal to provide for proper installation of elastomeric sealant according to cited sheet metal standard.

E. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal.

F. Fabricate cleats and attachment devices of sizes as recommended by cited sheet metal standard and by FM Global Property Loss Prevention Data Sheet 1-49 for application, but not less than thickness of metal being secured.

G. Seams: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with elastomeric sealant unless otherwise recommended by sealant manufacturer for intended use. Rivet joints where necessary for strength.

2.6 ROOF-DRAINAGE SHEET METAL FABRICATIONS

A. Parapet Scuppers: Fabricate scuppers to dimensions required, with closure flange trim to exterior, 4-inch- (100-mm-) wide wall flanges to interior, and base extending 4 inches (100 mm) beyond cant or tapered strip into field of roof. Fasten gravel guard angles to base of scupper. Fabricate from the following materials:

1. Aluminum: 0.032 inch (0.81 mm) thick.

2. Stainless Steel: 0.019 inch (0.48 mm) thick.

3. Galvanized Steel: 0.028 inch (0.71 mm) thick.

B. Splash Pans: Fabricate to dimensions and shape required and from the following materials:

1. Aluminum: 0.040 inch (1.02 mm) thick.

2. Stainless Steel: 0.019 inch (0.48 mm) thick.

2.7 LOW-SLOPE ROOF SHEET METAL FABRICATIONS

A. Roof Edge Flashing (Gravel Stop) and Fascia Cap: Fabricate in minimum 96-inch- (2400-mm-) long, but not exceeding 12-foot- (3.6-m-) long sections. Furnish with 6-inch- (150-mm-) wide, joint cover plates. Shop fabricate interior and exterior corners.

B. Copings: Fabricate in minimum 96-inch- (2400-mm-) long, but not exceeding 12-foot- (3.6-m-) long, sections. Fabricate joint plates of same thickness as copings. Furnish with continuous cleats to support edge of external leg and drill elongated holes for fasteners on interior leg. Miter corners, fasten and seal watertight. Shop fabricate interior and exterior corners.

1. Fabricate from the Following Materials:

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, substrate, and other conditions affecting performance of the Work.

1. Verify compliance with requirements for installation tolerances of substrates.

2. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.

3. Verify that air- or water-resistant barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 UNDERLAYMENT INSTALLATION

A. Felt Underlayment: Install felt underlayment, wrinkle free, using adhesive to minimize use of mechanical fasteners under sheet metal flashing and trim. Apply in shingle fashion to shed water, with lapped joints of not less than 2 inches (50 mm).

B. Synthetic Underlayment: Install synthetic underlayment, wrinkle free, according to manufacturers' written instructions, and using adhesive where possible to minimize use of mechanical fasteners under sheet metal.

C. Self-Adhering Sheet Underlayment: Install self-adhering sheet underlayment, wrinkle free. Prime substrate if recommended by underlayment manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation; use primer for installing underlayment at low temperatures. Apply in shingle fashion to shed water, with end laps of not less than 6 inches (150 mm) staggered 24 inches (600 mm) between courses. Overlap side edges not less than 3-1/2 inches (90 mm). Roll laps and edges with roller. Cover underlayment within 14 days.

D. Apply slip.sheet, wrinkle free, over underlaymentbefore installing sheet metal flashing and trim.

3.3 INSTALLATION, GENERAL

A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.

1. Install sheet metal flashing and trim true to line, levels, and slopes. Provide uniform, neat seams with minimum exposure of solder, welds, and sealant.

2. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.

3. Space cleats not more than 12 inches (300 mm) apart. Attach each cleat with at least two fasteners. Bend tabs over fasteners.

4. Install exposed sheet metal flashing and trim with limited oil canning, and free of buckling and tool marks.

5. Torch cutting of sheet metal flashing and trim is not permitted.

B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts pressure-treated wood or other corrosive substrates, protect against galvanic action or corrosion by painting contact surfaces with bituminous coating or by other permanent separation as recommended by sheet metal manufacturer or cited sheet metal standard.

1. Underlayment: Where installing sheet metal flashing and trim directly on cementitious or wood substrates, install underlayment and cover with slip sheet.

C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at maximum of 10 feet (3 m) with no joints within 24 inches (600 mm) of corner or intersection.

1. Use lapped expansion jointsonly where indicated on Drawings.

D. Fasteners: Use fastener sizes that penetrate wood blocking or sheathing not less than 1-1/4 inches (32 mm) for nails and not less than 3/4 inch (19 mm) for wood screws.

E. Conceal fasteners and expansion provisions where possible in exposed work and locate to minimize possibility of leakage. Cover and seal fasteners and anchors as required for a tight installation.

F. Seal joints as required for watertight construction.

1. Use sealant-filled joints unless otherwise indicated. Embed hooked flanges of joint members not less than 1 inch (25 mm) into sealant. Form joints to completely conceal sealant. When ambient temperature at time of installation is between 40 and 70 deg F (4 and 21 deg C), set joint members for 50 percent movement each way. Adjust setting proportionately for installation at higher ambient temperatures. Do not install sealant-type joints at temperatures below 40 deg F (4 deg C).

2. Prepare joints and apply sealants to comply with requirements in Section 079200 "Joint Sealants."

G. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter. Pre-tin edges of sheets with solder to width of 1-1/2 inches (38 mm); however, reduce pre-tinning where pre-tinned surface would show in completed Work.

1. Do not solder for metallic-coated steel sheet.

2. Do not use torches for soldering.

3. Heat surfaces to receive solder, and flow solder into joint. Fill joint completely. Completely remove flux and spatter from exposed surfaces.

4. Stainless-Steel Soldering: Tin edges of uncoated sheets, using solder for stainless steel and acid flux. Promptly remove acid flux residue from metal after tinning and soldering. Comply with solder manufacturer's recommended methods for cleaning and neutralization.

3.4 ROOF-DRAINAGE SYSTEM INSTALLATION

A. General: Install sheet metal roof-drainage items to produce complete roof-drainage system according to cited sheet metal standard unless otherwise indicated. Coordinate installation of roof perimeter flashing with installation of roof-drainage system.

B. Hanging Gutters: Join sections with riveted and soldered joints. Provide for thermal expansion. Attach gutters at eave or fascia to firmly anchor them in position. Provide end closures and seal watertight with sealant. Slope to downspouts.

1. Fasten gutter spacers to front and back of gutter.

2. Anchor and loosely lock back edge of gutter to continuous cleat.

3. Anchor back of gutter that extends onto roof deck with cleats spaced not more than 24 inches (600 mm) apart.

C. Parapet Scuppers: Continuously support scupper, set to correct elevation, and seal flanges to interior wall face, over cants or tapered edge strips, and under roofing membrane.

1. Anchor scupper closure trim flange to exterior wall and solder to scupper.

2. Loosely lock front edge of scupper with conductor head.

3. Solder exterior wall scupper flanges into back of conductor head.

3.5 ROOF FLASHING INSTALLATION

A. General: Install sheet metal flashing and trim to comply with performance requirements, sheet metal manufacturer's written installation instructions, and cited sheet metal standard. Provide concealed fasteners where possible, and set units true to line, levels, and slopes. Install work with laps, joints, and seams that are permanently watertight and weather resistant.

B. Roof Edge Flashing: Anchor to resist uplift and outward forces according to recommendations in cited sheet metal standard unless otherwise indicated. Interlock bottom edge of roof edge flashing with continuous cleat anchored to substrate at staggered 3-inch (75-mm) centers.

C. Roof Edge Flashing: Anchor to resist uplift and outward forces according to recommendations in FM Global Property Loss Prevention Data Sheet 1-49 for FM Approvals' listing for required windstorm classification.

D. Copings: Anchor to resist uplift and outward forces according to recommendations in cited sheet metal standard unless otherwise indicated.

1. Interlock exterior bottom edge of coping with continuous cleat anchored to substrate at 24-inch (600-mm)centers.

2. Anchor interior leg of coping with washers and screw fasteners through slotted holes at 24-inch (600-mm) centers.

E. Copings: Anchor to resist uplift and outward forces according to recommendations in FM Global Property Loss Prevention Data Sheet 1-49 for specified FM Approvals' listing for required windstorm classification.

F. Pipe or Post Counterflashing: Install counterflashing umbrella with close-fitting collar with top edge flared for elastomeric sealant, extending minimum of 4 inches (100 mm) over base flashing. Install stainless-steel draw band and tighten.

G. Counterflashing: Coordinate installation of counterflashing with installation of base flashing. Insert counterflashing in reglets or receivers and fit tightly to base flashing. Extend counterflashing 4 inches (100 mm) over base flashing. Lap counterflashing joints minimum of 4 inches (100 mm). Secure in waterproof manner by means of snap-in installation and sealant or lead wedges and sealant unless otherwise indicated.

H. Roof-Penetration Flashing: Coordinate installation of roof-penetration flashing with installation of roofing and other items penetrating roof. Seal with butyl sealant and clamp flashing to pipes that penetrate roof.

3.6 WALL FLASHING INSTALLATION

A. General: Install sheet metal wall flashing to intercept and exclude penetrating moisture according to cited sheet metal standard unless otherwise indicated. Coordinate installation of wall flashing with installation of wall-opening components such as windows, doors, and louvers.

3.7 ERECTION TOLERANCES

A. Installation Tolerances: Shim and align sheet metal flashing and trim within installed tolerance of 1/4 inch in 20 feet (6 mm in 6 m) on slope and location lines indicated on Drawings and within 1/8-inch (3-mm) offset of adjoining faces and of alignment of matching profiles.

3.8 CLEANING AND PROTECTION

A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.

B. Clean and neutralize flux materials. Clean off excess solder.

C. Clean off excess sealants.

D. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturer's written installation instructions. On completion of sheet metal flashing and trim installation, remove unused materials and clean finished surfaces as recommended by sheet metal flashing and trim manufacturer. Maintain sheet metal flashing and trim in clean condition during construction.

E. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 076200

P/C 4/20/17 Recreation
CA
1st R
2nd R
3rd R
B/C

CITY OF BROOK PARK, OHIO

ORDINANCE NO._____

INTRODUCED BY: **MAYOR COYNE**

AN ORDINANCE
AUTHORIZING THE CONSULTING ENGINEER TO PREPARE PLANS AND BID DOCUMENTS AND THE MAYOR TO ADVERTISE FOR BIDS, AND ENTER INTO A CONTRACT FOR THE ADMINISTRATION PARKING LOT PROJECT AND DECLARING AN EMERGENCY

WHEREAS, Council desires to construct an Administration Parking Lot at the Brook Park Community Center;

NOW THEREFORE, BE IT ORDAINED by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: The Consulting Engineer is hereby authorized to prepare plans and documents, and the Mayor is authorized to advertise for bids and enter into a contract with the lowest and best bidder for the Administration Parking Lot Project. The Consulting Engineer shall be paid a lump sum fee of $16,500.00.

SECTION 2: The money needed to complete the aforesaid transaction shall be paid from the Capital Fund No. 401 and Government Lands and Buildings Fund No. 700; theretofore appropriated or to be appropriated for said purpose.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety of said City, and for the further reason that the City desires to complete this work as soon as possible; provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

PASSED: _____ _____
PRESIDENT OF COUNCIL

ATTEST: _____ APPROVED: _____
CLERK OF COUNCIL MAYOR

_____
DATE

I HEREBY APPROVE THE WITHIN
INSTRUMENT AS TO LEGAL FORM
AND CORRECTNESS

F:\Jobs\187\1707 - Administration Parking\2017\Administration Parking Lot Ord.docx

DIRECTOR OF LAW

ADMINISTRATION PARKING LOT COST ESTIMATE (05/25/17)

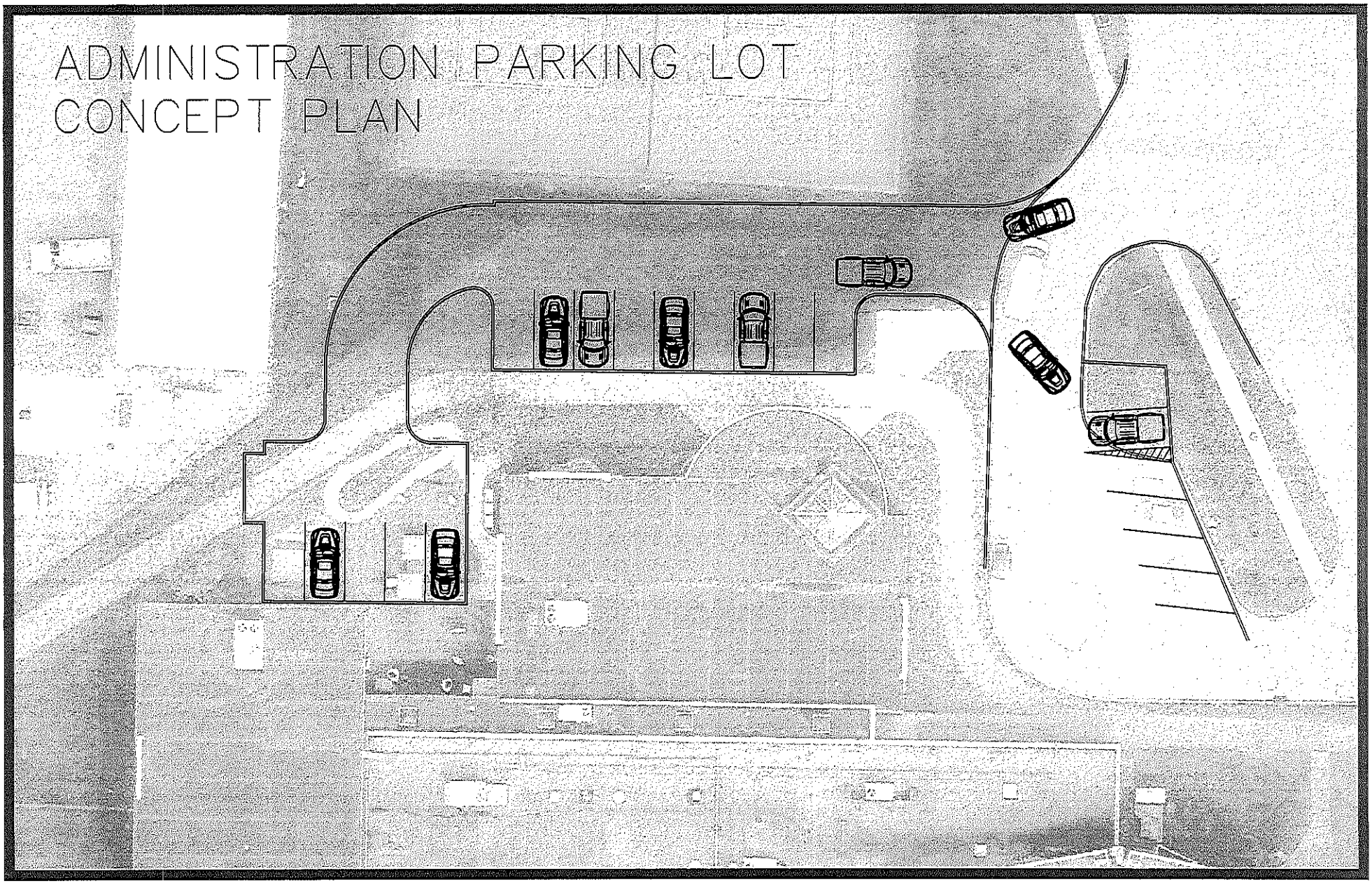
ITEM NO.	EST. QUAN.	DESCRIPTION	UNIT	TOTAL LABOR & MATERIAL (DOLLARS.CTS)	TOTAL AMOUNT BID (DOLLARS.CTS)
1	LUMP	Mobilization	LUMP	$3,000.00	$3,000.00
2	LUMP	Excavation	LUMP	$8,500.00	$8,500.00
3	250	Existing Concrete Curb Removal	FT	$7.50	$1,875.00
4	3	Storm Catch Basin	EA	$3,200.00	$9,600.00
5	150	12" Storm Sewer Conduit	FT	$65.00	$9,750.00
6	235	4" Underdrain with Fabri Wrap	FT	$12.00	$2,820.00
7	995	Subgrade Compaction	SY	$1.50	$1,492.50
8	166	6" Aggreagte Base	CY	$70.00	$11,620.00
9	43	2.50" - Asphalt Concrete Intermediate Course, Type 2 (448), PG64-22 (ODOT 441)	CY		
10	30	1.75" - Asphalt Concrete Surface Course, Type 1 (448), PG64-22 (ODOT 441)	CY		$71,640.00
11	31	Tack Coat @ 0.05 Gal/SY	GAL		
12	248	Prime Coat @ 0.40 Gal/SY	GAL		
13	400	Type 6 Concrete Curb	FT	$28.00	$11,200.00
14	500	4" Concrete Sidewalk	SF	$7.50	$3,750.00
15	LUMP	Pavement Markings	LUMP	$2,000.00	$2,000.00
16	LUMP	Contingency Allowance	LUMP	$8,000.00	$8,000.00
		Existing Utility Relocations - Not Included			
				TOTAL =	**$145,247.50**

ESTIMATED PROJECT COSTS

Construction	$145,247.50
Engineering Design and Construction Administration	$16,500.00
Inspection	$7,000.00
Testing	$500.00
Legal Advertising	$1,350.00
ESTIMATED TOTAL =	$170,597.50

* Note: Concrete pavement section will be considered as an alternate during Engineering Design.

ADMINISTRATION PARKING LOT CONCEPT PLAN



P/C 6/20/17 Recreation
CA
1st R
2nd R
3rd R
B/C

CITY OF BROOK PARK, OHIO

ORDINANCE NO._____

INTRODUCED BY: MAYOR COYNE

AN ORDINANCE
AUTHORIZING THE MAYOR TO HIRE INSPECTOR(S)
FOR THE ADMINISTRATION PARKING LOT PROJECT
AND DECLARING AN EMERGENCY

BE IT ORDAINED by the Council of the City of Brook Park, State of Ohio, that:

SECTION 1: The Mayor be and is hereby authorized to hire Inspector(s) for the Administration Parking Lot Project. The Inspector(s) shall report to and be directed by the Consulting Engineer.

SECTION 2: The Inspector(s) shall be paid between $18.00 and $23.00 per hour. Such payment to be made by the City upon receipt of statements from the Inspector(s).

SECTION 3: The money needed to complete the aforesaid transaction shall be paid from the Capital Fund No. 401 and Government Lands and Buildings Fund No. 700; theretofore appropriated or to be appropriated for said purpose.

SECTION 4: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action, were in meetings open to the public, in compliance with all legal requirements including Section 121.22 of the Ohio Revised Code.

SECTION 5: This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of the City, and for the further reason of the immediate need to have an Inspector(s) on-site for the duration of the Project; therefore, provided this ordinance receives the affirmative vote of at least five (5) members elected to Council, it shall take effect and be in force immediately upon its passage and approval by the Mayor; otherwise, from and after the earliest period allowed by law.

I HEREBY APPROVE THE WITHIN INSTRUMENT AS TO LEGAL FORM AND CORRECTNESS
DIRECTOR OF LAW

PASSED: _____ _____
PRESIDENT OF COUNCIL

ATTEST: _____ APPROVED: _____
CLERK OF COUNCIL MAYOR

_____
DATE