

Pittsburg County, Oklahoma
COUNTY PURCHASING OFFICE
Pittsburg County Court House
McAlester, Oklahoma
Phone: (918) 423-4934

INVITATION TO BID

PLEASE REVIEW TERMS AND CONDITIONS ON REVERSE
SIDE RELATING TO SUBMISSION OF THIS BID.

Notarized Affidavit completions and signature required on reverse side.

DATE ISSUED
30-Nov-15
PAGE 1 OF _____

BID NUMBER Bid # 9	BID CLOSING DATE AND HOUR DECEMBER 14, 2015 @ 10:00AM	REQUIRED DELIVERY DATE <small>Days after award of Purchase Order</small>
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TERMS:	DATE OF DELIVERY:
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Item	Quantity	Unit of issue	DESCRIPTION	Unit Price	Total
			<p>SIX MONTH BIDS</p> <p>Please do not bid on any itme that is not on the specifications furnished to you. If you would like to bid on an item that you did not receive specifications for please call (918) 423-4934.</p> <p>Please use the enclosed bid sheet forms to place your bid on. <u>Failure to record your bid on the furnished bid sheets may result in the disqualification of your bid.</u></p> <p>Please return your bid in the enclosed envelope. Please only one bid per envelope.</p> <p><u>SEE SPECIFICATIONS ATTACHED.</u></p>		

TERMS AND CONDITIONS

1. Sealed bids will be opened in the Commissioner's Conference Room, Pittsburg County Courthouse, McAlester, Oklahoma, at the time and date shown on the invitation to bid form.
2. Late bids will not be considered. Bids must be received in sealed envelopes (one to an envelope) with bid number and closing date written on the outside of the envelope.
3. Unit prices will be guaranteed correct by the bidder.
4. Firm prices will be F.O.B. destination.
5. Purchases by Pittsburg County, Oklahoma, are not subject to state or federal taxes.
6. This bid is submitted as a legal offer and any bid when accepted by the County constitutes a firm contract.
7. Oklahoma laws require each bidder submitting a bid to a county for goods or services to furnish a notarized sworn statement of non-collusion. A form is supplied below.
8. Bids will be firm until June 30, 2016.

(DATE)

AFFIDAVIT: I, the undersigned, of lawful age, being first duly sworn on oath say that he (she) is the agent authorized by the bidder to submit the above bid. Affiant further states that the bidder has not been a party to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding; or with any state official or employee as to quantity; quality or price in the prospective contract or any other terms of said prospective contract; or in any discussions between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract; that the bidder/contractor has not paid, given or donated or agreed to pay, give or donate to any officer or employee of the State of Oklahoma (or other entity) any money or other thing of value, either directly or indirectly in the procuring of the award of a contract pursuant to this bid.

Subscribed and sworn before this _____ day
of _____ 20_____ (seal)

My commission expires _____ Signed by: _____ Firm: _____ Title: _____
(MANUAL SIGNATURE OF UNDERSIGNED)

NOTARY PUBLIC (CLERK OR JUDGE) Address: _____ Phone: _____
City: _____ State _____
Zip _____

NOTE: Other terms and conditions can be added at the discretion of the county officers.

**RESOLUTION #16-112 TO
ADVERTISE FOR SIX MONTH BIDS**

The Board of County Commissioners, Pittsburg County met in regular session on November 30, 2015.

WHEREAS, Pittsburg County wishes to advertise for the following materials:

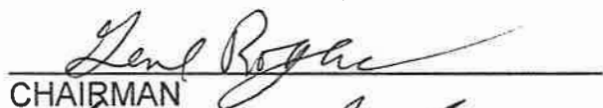
CRUSHED STONE
OILFIELD ROCK aka 1" to 1 ½" CRUSHED DECOMPOSED GRANITE
ROAD OILS
ASPHALT PRODUCTS
CONCRETE PRODUCTS
PETROLEUM PRODUCTS
SPIRAL PIPE & ARCH PIPE
NEW & USED STEEL
USED STEEL PIPE
PLASTIC PIPE
GRADER BLADES
TIRES (NEW, MAJOR BRANDS ONLY)
TIRE RECAPS W/ CORE
TIRE SERVICES
LAYDOWN MACHINE

COPY PAPER
STRUCTURAL GEAR aka BUNKER GEAR
FIRE HOSE
WILDLAND GEAR

A bid package containing complete specifications and an "Invitation to Bid" with an affidavit of non-collusion may be picked up at the County Clerk's Office, Pittsburg County Courthouse, 115 E. Carl Albert Parkway, Room 103 McAlester, Ok. 74501. All bids must state price of the aforesaid materials and said materials must be delivered in quantities ordered when and as needed by the Board of County Commissioners, within a six month period, beginning January 1, 2016 and ending June 31, 2016. Each competitive bid submitted to the county must be accompanied with an affidavit for filing with competitive bid form, as required by 61 O.S. § 138. No bid will be considered unless submitted on this form with affidavit completed and notarized. Place your bids in an envelope and mark it "Six Month Bids".

Sealed bids will be received and filed with the County Clerk and opened on Monday, December 14, 2015 at 10:00 a.m., in the Pittsburg County Commissioners' Conference Room, Pittsburg County Courthouse, 115 E. Carl Albert Parkway, McAlester, OK. 74501. Contract will be awarded to the lowest or best bidder. The Board of County Commissioners reserves the right to reject any and all bids and re-advertise.

BOARD OF COUNTY COMMISSIONERS
PITTSBURG COUNTY, OKLAHOMA

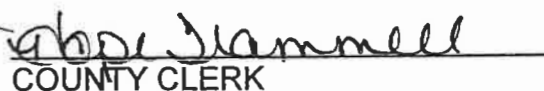

CHAIRMAN


MEMBER


MEMBER

ATTEST:




COUNTY CLERK

CRUSHED STONE

BID PRICE FOR PITTSBURG COUNTY

VENDOR: _____

MUST MEET STATE SPECIFICATIONS

CRUSHED STONE	BID PRICE PER TON
#4 SCREENINGS	_____
3/8" #2 COVER CHIPS	_____
3/8" NON SPEC CHIPS	_____
3/8" P.U.C.M.	_____
5/8" #3 COVER CHIPS	_____
5/8" #3-C COVER CHIPS	_____
5/8" NON SPEC CHIPS	_____
3/4" #1 COVER CHIPS	_____
3/4" NON SPEC CHIPS	_____
1" TBSC TYPE A	_____
1" #67	_____
1" #57	_____
1 1/2" #57	_____
1 1/2" COARSE STONE	_____
1 1/2" CLASS B	_____
1 1/2" MILL RUN	_____
1 1/2" ODOT BASE TYPE A	_____
1 1/2" ODOT BASE TYPE B	_____
1 3/4" TO 1" STONE	_____
2" MILL RUN #11	_____
2" CLEAN ROCK	_____
2" ASTM SIZE #4	_____
2 1/2" ASTM #3	_____
4" ODOT FILTER BLANKET	_____

CRUSHED STONE

BID PRICE PER TON

6" ODOT FILTER BLANKET	
4" FILTER STONE	
3/4" CRSHER RUN	
1" CRUSHER RUN	
1 1/2" CRUSHER RUN	
2 1/2" CRUSHER RUN	
4" TO 1 1/2" SPECIAL GRIZZLY	
3" SURGE	
8" SURGE	
8" GABION STONE	
SHOT DOWN ROCK	
6" TO 8" RIP RAP	
12" SELECT RIP RAP	
18" SELECT RIP RAP	
24" SELECT RIP RAP	
30" SELECT RIP RAP	
QUARRY RUN RIP RAP	
NON SPEC MIXED STONE	
DECOMPOSED SCREENED GRANITE	

IF ITEMS DO NOT MEET SPECIFICATIONS

THEY WILL BE REJECTED

OILFIELD ROCK

<u>DESCRIPTION</u>	<u>Price Per Ton</u>
1" to 1 1/2" Crushed Decomposed Granite	<hr/>

ROAD OILS

PRODUCT	PRICE PER GALLON
SS-1	
CRS-2	
MC-30	
MC-3000	
AEP	

PRODUCTS MUST MEET STATE SPECIFICATIONS.

IF ITEM DOES NOT MEET THE SPECIFICATIONS, IT WILL BE REJECTED.

ASPHALT

BID PRICE FOR PITTSBURG COUNTY

VENDOR: _____

MUST MEET STATE SPECIFICATIONS

PATCHING MATERIALS	PRICE
HM/HL TYPE B	_____
HM/HL TYPE C	_____
HM/HL S-4	_____
HM/HL S-5	_____
HM/CL HIGH PERFORMANCE	_____
UPM	_____

HOT LAY-----THE MATERIAL SHALL MEET ODOT
SPECS FOR A TYPE C OR TYPE B
MIX. THIS WILL CONTROL THE OIL
CONTENT AND GRADATION

COLD LAY-----THE MATERIAL SHALL MEET ODOT
SPECS FOR A HC2, HC3, OR HC4
THIS WILL CONTROL THE GRADATION
AND OIL CONTENT, LUMPS OF MATERIAL
THAT HAVE SET UP AND ARE NOT
USEABLE WILL BE REJECTED.

IF ITEM DOES NOT MEET THE SPECIFICATIONS, IT WILL BE REJECTED.

CONCRETE

CONCRETE PRODUCTS

	TYPE A	TYPE AA
3000 PSI		
3500 PSI		
4000 PSI		
PRICE PER MILE		

PETROLEUM PRODUCTS
BID PRICE FOR PITTSBURG COUNTY

VENDOR: _____

PRODUCT	SIZE OF CONTAINER	SPECIFICATION	BID PRICE
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ENGINE OIL, DIESEL OIL

MAJOR BRAND (GAS ENGINES ONLY)

ENGINE OIL (DIESEL)	1 GAL CAN	HD-II, SAE 30 SF/CC, CD	_____
	1 QT/12 CASE	HD-II, SAE 30 SF/CC, CD	_____
	55 GAL DRUM	HD-II, SAE 30 SF/CC, CD	_____
J. D PLUS 50 SUPREME	1 GAL CAN		_____
DELO 400 (MULTI-GRADE)	1 GAL CAN	SAE 40 SAE 30 15W40	_____ _____ _____
	BULK PER GALLON	SAE 40 SAE 30 15W40	_____ _____ _____
API SERV-CE/Sg	1 QT/12 CASE	15W40	_____
	BULK PER GALLON		_____
OIL EQUIVALENT TO PENZOIL	1 QT/12 CASE	SAE30	_____

ENGINE OIL, MULTI GRADE

ENGINE OIL (GASOLINE)	1 QT/12 CASE	SAE 30	_____
	55 GAL DRUM	SE, SF/CC	_____
	1 QT/12 CASE	15W40	_____
	1 GAL CAN	15W40	_____
	1 QT/12 CASE	5W20	_____
	1 QT/12 CASE	5W30	_____
QUAKER STATE (REQUIRED TO MEET WARRANTY SPECIFICATIONS)	1 QT/12 CASE	10W30	_____
QUAKER STATE (REQUIRED TO MEET WARRANTY SPECIFICATIONS)	1 QT/12 CASE	5W30	_____
SYNTHETIC BLEND GASOLINE ENGINE OIL	1 QT/12 CASE	5W20	_____
SYNTHETIC BLEND GASOLINE ENGINE OIL	1 QT/12 CASE	5W30	_____
CLEANING SOLVENT	55 GAL DRUM	NON-STAIN	_____
LIFT OIL (TRUCK & EQ.)	55 GAL DRUM	SERIES 3 SAE-10WT	_____

HYDRAULIC OILS ANTI WEAR TYPE R & O

HYDRAULIC OIL TRANS-DIFF HYD	5 GAL CAN	JD-303	_____
HYDRAULIC OIL TRANS-DIFF-HYD	55 GAL DRUM	JD-303	_____
HYDRAULIC OIL TRANS-DIFF-HYD	BULK PER GALLON	JD-303	_____

PETROLEUM PRODUCTS

BID PRICE FOR PITTSBURG COUNTY

HYDRAULIC OIL TRANSMISSION (303)	5 GAL CAN		
SUPER HYDRO 32	55 GAL DRUM	10 WT.	
JOHN DEERE HY- GUARD REQUIRED TO MEET WARRANTY SPECIFICATIONS)	5 GAL CONTAINER		
TO4 SPEC OIL (CAT HYDRAULIC) (TRANSMISSION OIL)	1 GAL CAN	30 WT	
	5 GAL CONTAINER	30 WT	
	55 GAL DRUM	30 WT	
TO4 SPEC OIL (CAT HYDRAULIC) DRIVE TRAIN OIL)	1 GAL CAN	50 WT	
	5 GAL CONTAINER	50 WT	
	55 GAL DRUM	50 WT	
CAT HYDRAULIC OIL	1 GAL CAN	10 WT	
	5 GAL CONTAINER	10 WT	
	55 GAL DRUM	10 WT	
CG-4 ENGINE OIL	1 GAL CAN	15W40	
	5 GAL CONTAINER	15W40	
	55 GAL DRUM	15W40	
AUTOMATIC TRANSMISSION FLUID, AUTO TRANS FLUID	1 QT/12 CASE	DEX II, TYPE F	
	1 QT/12 CASE	DEXTRON 3	
DRIVE TRAIN OIL	1 GAL CAN	30 WT	
	5 GAL CONTAINER	30 WT	
	55 GAL DRUM	30 WT	

PRODUCT QUALITY AND IDENTIFICATION: ALL LUBRICATION PRODUCTS BID UNDER THESE SPECIFICATIONS MUST BE MANUFACTURED OR REFINED FROM VIRGIN CRUDE OIL. **RE-FINED PETROLEUM PRODUCT WILL NOT BE ACCEPTED.** ALL CONTAINERS MUST BE CLEARLY LABELED WITH BRAND NAME, THE SAE WEIGHTS, PRODUCT SPECIFICATIONS, AND THE API CLASSIFICATION, WHERE APPLICABLE.

SUCCESSFUL BIDDER MUST KEEP BID ITEM IN STOCK. **PLEASE NO SUBSTITUTIONS ON BID ITEMS.** IF A SUBSTITUTION MUST BE MADE, THE PRICE MUST BE AGREED UPON BETWEEN THE RECEIVING OFFICER AND THE VENDOR BEFORE DELIVERY IS MADE

SPIRAL PIPE

BID PRICE FOR PITTSBURG COUNTY

VENDOR: _____

SPIRAL PIPE - 16 GA. 2.66"	PRICE PER FOOT
12"	_____
15"	_____
18"	_____
21"	_____
24"	_____
30"	_____
36"	_____
42"	_____
48"	_____

SPIRAL PIPE - 16 GA. 3.1"	
36"	_____
42"	_____
48"	_____
54"	_____
60"	_____
66"	_____
72"	_____
78"	_____
84"	_____
90"	_____

SPIRAL PIPE -14 GA. 2.6"	PRICE PER FOOT
12"	_____
15"	_____
18"	_____
21"	_____
24"	_____
30"	_____
36"	_____
42"	_____
48"	_____
54"	_____
60"	_____

SPIRAL PIPE - 14 GA. 3.1"

42"	
48"	
54"	
60"	
66"	
72"	
78"	
84"	
90"	
96"	
102"	
108"	
114"	

BID PRICE FOR PITTSBURG COUNTY

ARCH PIPE -16 GA. 2.6"	PRICE PER FOOT
15"	
18"	
21"	
24"	
30"	
36"	
42"	

ARCH PIPE - 14 GA. 2.6"	
15"	
18"	
21"	
24"	
30"	
36"	
42"	
48"	

ARCH PIPE 12 GA. 3.1"	
84"	
96"	

ARCH PIPE - 14 GA. 3.1"	
42"	
48"	
54"	
60"	
66"	
72"	
78"	

NEW & USED STEEL

BID PRICE FOR PITTSBURG COUNTY

VENDOR: _____

		NEW	USED
STEEL BEAMS	LB	_____	_____
HI-PILE	LB	_____	_____
HEAVY WALL PIPE PILING			
6"	FT	_____	_____
7"	FT	_____	_____
8"	FT	_____	_____
9"	FT	_____	_____
DECKING			
24 GAUGE	SQ. FT	_____	_____
22 GAUGE	SQ. FT	_____	_____
STRUCTURAL STEEL	LB	_____	_____
SECONDARY STRUCTURAL STEEL	LB	_____	_____
PLATE	LB	_____	_____
GRADE 60 REBAR			
1/2"	FT	_____	_____
5/8"	FT	_____	_____
GUARD RAIL	FT	_____	_____

USED STEEL PIPE
BID PRICE FOR PITTSBURG COUNTY

VENDOR _____

SIZE	PRICE PER FOOT
16"	_____
18"	_____
20"	_____
22"	_____
24"	_____
26"	_____
30"	_____
34"	_____
36"	_____
42"	_____
48"	_____
54"	_____
60"	_____
7'	_____
8'	_____
8 1/2'	_____
9'	_____
9 1/2'	_____
10'	_____

PLASTIC PIPE
PRICE PER FOOT

	<u>BLACK</u>	<u>GREY</u>
12"		
15"		
18"		
21"		
24"		
30"		
36"		
42"		
48"		
60"		

GRADER BLADES

GRADER BLADES 5/8" BOLT HOLE

1/2" X 6'	
1/2" X 8'	
5/8" X 6" X 7'	
5/8" X 8" X 7' (HIGH CARBON)	
3/4" X 8" X 7' (HIGH CARBON)	
3/4" X 8" X 7' (NON CARBON)	
WITH 6" CENTERS	

GRADER BLADES 3/4" BOLT HOLE

1/2" X 6'	
1/2" X 8'	
5/8" X 6" X 7'	
5/8" X 8" X 7' (HIGH CARBON)	
3/4" X 8" X 7' (HIGH CARBON)	
3/4" X 8" X 7' (NON CARBON)	
WITH 6" CENTERS	

TIRES

SIZE	TREAD	LOAD RANGE OR PLY	DESCRIPTION	PRODUCT CODE	PRICE
ST205/75Rx15	HY	8-D	SPECIAL TRAILER	_____	_____
ST225/75Rx15	HY	10-E	SPECIAL TRAILER	_____	_____
215/60Rx16	A/S	4-B	RADIAL	_____	_____
215/85Rx16	A/P	10-E	RADIAL LT	_____	_____
225/75Rx16	A/P	8-D	RADIAL LT	_____	_____
225/60VRx16	A/S	4 VR	POLICE PURSUIT	_____	_____
225/60VRx18	A/S	4 VR	POLICE PURSUIT	_____	_____
265/60VRx17	A/S	4 VR	POLICE PURSUIT	_____	_____
LT225/75Rx17	A/P	10-E	LT STEEL RADIAL	_____	_____
P235/75Rx15	A/S	4-B	STEEL RADIAL	_____	_____
LT235/75Rx15	HY	6-C	LT STEEL RADIAL	_____	_____
LT235/75Rx15	M&S	6-C	LT STEEL RADIAL	_____	_____
235/70Rx16	HY	10-	STEEL RADIAL	_____	_____
235/70Rx16	A/T	10-	STEEL RADIAL	_____	_____
235/85Rx16	H/T	10-E	RADIAL LT	_____	_____
235/85Rx16	A/T	10-E	RADIAL LT	_____	_____
235/85Rx16	M&S	10-E	HD CUT & CHIP	_____	_____
235/85Rx16	LUG	10-E	MAX TRACTION RDL	_____	_____
235/55Rx17	HY	4-B	STEEL RADIAL	_____	_____
245/75Rx16	H/T	10-E	RADIAL LT	_____	_____
245/75Rx16	A/T	10-E	RADIAL LT	_____	_____
245/75Rx16	LUG	10-E	MAX TRACTION RDL	_____	_____
245/70Rx17	LUG	10-E	MAX TRACTION RDL	_____	_____
245/75Rx17	H/T	10-E	RADIAL LT	_____	_____
245/75Rx17	A/T	10-E	RADIAL LT	_____	_____
245/75Rx17	LUG	10-E	MAX TRACTION RDL	_____	_____
245/55Rx18	HY	4-B	STEEL RADIAL	_____	_____
265/75Rx16	H/T	10-E	RADIAL LT	_____	_____
265/75Rx16	A/T	10-E	RADIAL LT	_____	_____
265/75Rx16	LUG	10-E	MAX TRACTION RDL	_____	_____
265/70Rx17	A/T	4-B	RADIAL "P" METRIC	_____	_____
265/70Rx17	A/T	10-E	RADIAL LT	_____	_____
265/70Rx17	LUG	10-E	MAX TRACTION RDL	_____	_____
265/65Rx18	A/P	4-B	RADIAL "P" METRIC	_____	_____

SIZE	TREAD	LOAD RANGE OR PLY	DESCRIPTION	PRODUCT CODE	PRICE
275/65Rx18	A/P	10-E	RADIAL	_____	_____
285/75Rx16	LUG	10-E	MAX TRACTION RDL	_____	_____
285/70Rx17	LUG	8-D	MAX TRACTION RDL	_____	_____
215/75Rx17.5	HY	H-16	LPT RADIAL TBL	_____	_____
225/70Rx19.5	HY	F-12	RADIAL	_____	_____
225/70Rx19.5	M/S	F-12	RADIAL	_____	_____
255/70Rx22.5	HY	H-16	LPT RADIAL TBL	_____	_____
285/75Rx24.5	HY	14-G	RADIAL	_____	_____
285/75Rx24.5	LUG	14-G	RADIAL	_____	_____
295/75Rx22.5	LUG	G-14	RADIAL TUBELESS	_____	_____
25/1000x12	A/T	6-C	ATV	_____	_____
9Rx22.5	HY	12-F	RADIAL TUBELESS	_____	_____
10Rx22.5	HY	12-F	RADIAL	_____	_____
10Rx22.5	LUG	12-F	RADIAL	_____	_____
11Lx15	F-3	8-	INDUSTRIAL TBL	_____	_____
11Lx16	F-3	10-	INDUSTRIAL TBL	_____	_____
11Rx22.5	LUG	14-G	DRIVE LUG	_____	_____
11Rx22.5	HY	14-G	RADIAL	_____	_____
11Rx22.5	HY	14-G	PREMIUM STEERING	_____	_____
11Rx22.5	M&S	14-G	MAX TRACTION RDL	_____	_____
11Rx24.5	LUG	14-G	DRIVE LUG	_____	_____
11Rx24.5	M&S	14-G	MAX TRACTION RDL	_____	_____
11Rx24.5	HY	14-G	PREMIUM STEERING	_____	_____
12x16.5	NHS	8-	FRONT BACK HOE	_____	_____
13.6x28	R-1	6-	FARM TUBE TYPE	_____	_____
14x17.5	NHS	8-	SUPTRAC DUPLEX	_____	_____
16.9x34	R-1	6-	FARM TUBE TYPE	_____	_____
17.5L24	R-4	8-	IND LUG TUBELESS	_____	_____
17.5x25	G-2	12-	GRADER LOADER TBL	_____	_____
17.5x25	RL	12-	LOADER ROCKLUG TBL	_____	_____
17.5Rx25	LUG		RADIAL TBL LUG	_____	_____
20.5x25	L2		RADIAL	_____	_____
18.4x30	R-1	8-	FARM TUBE TYPE	_____	_____
18.4x34	R-1	8-	FARM TUBE TYPE	_____	_____

SIZE	TREAD	LOAD RANGE OR PLY	DESCRIPTION	PRODUCT CODE	PRICE
18.4x38	R-1	8-	FARM TUBE TYPE	_____	_____
19.5x24	R-4	12-	BACKHOE IND LUG TBL	_____	_____
20.8x38	R-1	8-	FARM TUBE TYPE	_____	_____
750x16	TRIRIB	6-	FARM TUBELESS	_____	_____
900x20	HW		TUBE TYPE	_____	_____
900x20	LUG		TUBE TYPE	_____	_____
900Rx20	HY	12-F	RADIAL	_____	_____
900Rx20	M&S	12-F	RADIAL	_____	_____
900Rx20	LUG	12-F	MAX TRACTION RDL	_____	_____
1000x16	TRIRIB	8-	FARM TUBELESS	_____	_____
1100x16	TRIRIB	8-	FARM TUBELESS	_____	_____
1000Rx20	HY	14-G	RADIAL TUBETYPE	_____	_____
1000Rx20	M&S	14-G	RADIAL TUBETYPE	_____	_____
1400x24	G-2	12-	TBL PREMIUM 181 LBS	_____	_____
1400x24	G-2	12-	TBL ECONOMY 137 LBS	_____	_____
1400Rx24	G-2/L-2	ONE*	RADIAL TUBELESS	_____	_____

*** MAJOR BRAND TIRES**

*** BID PREMIUM TIRES**

RECAPPED TIRES WITH CORE

SIZE	TREAD	PRODUCT CODE	PRICE
11Rx22.5	C/S DRIVE	<hr/>	<hr/>
11Rx24.5	C/S DRIVE	<hr/>	<hr/>
1400x24	RADIAL	<hr/>	<hr/>

TIRE SERVICE

<u>TIRE SIZES</u>	<u>TIRE MOUNTS</u>	<u>TIRE CHANGES</u>	<u>WHEEL BALANCING</u>	<u>FLAT REPAIR</u>
PASS & LT 14"-16"				
PASS & LT 17"-20"				
TRUCK TIRE 20-24.5				
SPLIT RIM 20" OR SMALLER				
GRADER TIRES 1400x24				
LOADER TIRES 17.5x25				
FARM & BACKHOE TIRES:				
11Lx15/11Lx16				
12x16.5 BOBCAT OR				
BACKHOE				
14x17.5 BACKHOE				
24" UP TO 17.5Lx24"				
19.5Lx24				
28" UP TO 13.6x28				
ABOVE 13.6x28				
34" ALL SIZES				
38" ALL SIZES				

SERVICE CALLS

BASE CHARGE _____

AFTER HOURS _____

PER MILE _____

DELAY CHARGE _____

LAYDOWN MACHINE
NO CREW

LAYDOWN MACHINE

PRICE

DAILY RENTAL

WEEKLY RENTAL

COPY PAPER

<u>SIZE</u>	<u>BRIGHTNESS</u>	<u>WEIGHT</u>	<u>PRICE PER CASE</u>
8 1/2x11	White 92	20lb	<hr/>
8 1/2x14	White 92	20lb	<hr/>
11x17	White 92	20lb	<hr/>

BUNKER GEAR

ITEM

PRICE

JACKET

DUAL RADIO POCKET

FLASHLIGHT HOLDER

AMERICAN FLAG

DEPARTMENT LETTERING

FIREFIGHTER NAME

TROUSERS

**GENERAL SPECIFICATIONS
PROTECTIVE JACKET AND PANTS
FOR STRUCTURAL FIRE FIGHTING**

SCOPE:

This specification details design and materials criteria to afford protection to the upper and lower body, excluding head, hands, feet, against adverse environmental effects during structural firefighting. All materials and construction will meet or exceed NFPA Standard 1971 and OSHA for structural firefighting protective clothing.

SIZING:

The bidder will be required to measure each firefighter to ensure proper fit of all garments. This will require that the bidder travel to each Fire Department for sizing.

JACKET CONSTRUCTION:

The outer shell shall be constructed of 60/40 kevlar/nomex material or equivalent. The shell material must be treated with durable water-repellant finish that also enhances abrasion resistance. The outer shell material shall be in Khaki color. The body panels shall be shaped so as to provide a tailored fit enhancing body movement. The outer shell layer shall meet the current NFPA Standards.

DRD:

The jacket shall have a DRD installed in accordance with NFPA Standards.

REFLECTIVE TRIM:

The retroreflective trim shall be 3" inches wide and be a lime /yellow or red/orange departments choice, triple trim in accordance with NFPA Standards. All trim shall be installed with nomex thread, using a locking chain stitch.

RADIO POCKET/FLASHLIGHT:

The jacket shall have a radio pocket sewn on the left side of the chest and a microphone tab constructed of outer shell material sewn above it with FR Velcro closure. A Survivor style flashlight holder sewn on the right side, with inward facing metal hook, to accommodate Survivor light style flashlight.

ATTENTION BIDDER: The ordering department may order dual or right side radio pocket as well as flashlight holder. Please list prices with or without these options.

SLEEVE CUFFS:

The jacket shall be constructed with sleeve cuff reinforcements made of a layer of dragonhide type material or equivalent. The jacket shall be equipped with wrist guards not less than 7 inches in length and double thickness. A thumb hole with an approximate diameter of 2 inches shall be recessed approximately 1 inch from the leading edge. The sleeve shall be constructed

of 96% Nomex and 4% spandex for shape retention. The sleeve cuffs and wrist guards shall be installed so as to prevent any water from entering the jacket. The sleeve cuffs and wrist guards shall be constructed to comply with current NFPA Standards.

OUTER SHELL ADD ONS:

The jacket shall have an embroidered American flag on the right shoulder as per Military protocol. The jacket may have lettering across the shoulders with letters of the departments name sewn on at the departments request. The jacket may have a hanging patch constructed on a double layer of outer shell material attached using a combination of snaps and FR type Velcro inside the lower hem of the jacket in the rear. The patch shall have the name of the firefighter in 3 inch letters if length of name allows sufficient space.

Attention Bidder: The ordering department may or may not want to order gear with any or all of these options. Please list price with or without options.

CARGO/HANDWARMER POCKETS:

The jacket shall have 2 high expansion bellow pockets with integrated hand warmer pockets sewn on each side of jacket. The pockets shall measure 8 inches wide by 8 inches high. Each pocket shall be constructed to allow water to drain out and the flaps shall be held closed using FR Velcro type closure. The pockets shall be located with the bottom of the pockets at the bottom of the jacket to allow for full function while using and wearing SCBA. The reflective trim shall run over the bottom of the pockets so as not to interrupt the trim stripe.

THERMAL LAYER:

The thermal insulating layer shall be construed of Nomex fabric woven from a blend of filament and spun fibers consisting of two layers having a total weight of not less than 7.0/yd². The thermal liner shall have a 7 inch by 9 inch pocket constructed of self material sewn on the left side of liner. The thermal liner shall meet current NFPA Standards.

MOISTER BARRIER:

The moisture barrier shall be of two layers of material laminated together. All seams in the moisture barrier shall be sealed with a minimum 1 inch wide sealing tape. The moisture barrier shall meet the current NFPS Standards.

THERMAL BARRIER:

The thermal liner and moisture barrier shall be attached together to the outer shell by means of a combination of snaps and fire resistant Velcro type fastener.

TROUSER CONSTRUCTION

SEPARATING LINER SYSTEM

The thermal liner and moisture barrier layers of the trouser liner system shall be constructed in such a way as to allow the layers to separate for complete interior inspection, service and replacement. The thermal liner and moisture barrier layers shall be stitched together at the front fly and pant cuff only for security and prevention of inadvertent use of one layer without the other.

The thermal liner and moisture barrier layers shall fasten together at the waist with snap fasteners and at the cuffs with full circumference FR hook & loop fastener tape and two snap fasteners. The snap fasteners shall be evenly spaced along the openings and set in bias-cut Neoprene reinforcement fabric. The waist and cuff perimeters of the moisture barrier and thermal liner layers shall be bound along the edges with a neoprene-coated cotton/polyester binding for a finished appearance that prevents wicking of contaminants.

EXTERNAL/INTERNAL FLY FLAP

The trousers will have a vertical outside fly flap constructed of two layers of outer shell material, with a layer of moisture barrier material sandwiched between. The fly flap shall be double stitched to the left front body panel and shall measure approximately 2 ½ inches wide by 10 inches long and reinforced with bartacks at the base. An internal fly flap constructed of one layer of outer shell material, thermal liner and specified moisture barrier, measuring approximately 2 inches wide by 10 inches long, shall be sewn to the leading edge of the right front body panel. The inside of the right front body panel shall be thermally enhanced directly under the outside fly with a layer of moisture barrier and thermal liner material.

The underside of the outside fly flap shall have a 2 inch wide piece of loop fastener tape quadruple stitched along the full length and through the shell material only; stitching shall not penetrate the moisture barrier insert between the two layers to insure greater thermal protection and reduced water penetration. A corresponding strip of 2 inch wide by 9 inch long hook fastener tape shall be quadruple stitched to the outside right front body panel securing the fly in a closed position.

Appropriate male and female snap fastener halves shall be installed at the leading edge of the waistband for the purpose of further securing the trousers in the closed position.

SEAT DESIGN

The rise of the rear trouser center back seam, from the top back of the waistband to where it intersects the inside leg seams at the crotch, shall exceed the rise at the front of the trouser by 8-inches. The longer rear center back seam provides added fullness to the seat area for extreme mobility without restriction when stepping up or crouching and will be graded to size.

EXPANSION POCKETS

An expansion pocket, measuring approximately 2 inches deep by 10 inches wide by 10 inches high shall be double stitched to the side of each leg straddling the out seam above the knee and positioned to provide accessibility. The lower half of each expansion pocket shall be reinforced with an additional layer of outer shell material on the inside. Two rust resistant metal drain eyelets shall be installed on the underside of each expansion pocket to facilitate drainage of water. The pocket flaps shall be rectangular in shape, constructed of two layers of outer shell material and shall measure 3 inches deeper than the pocket expansion and 1/2 inch wider than the pocket. The upper pocket corners and pocket flaps shall be reinforced with bartacks. The pocket flaps shall be closed by means of flame resistant hook and pile fastener tape. Two pieces of 1 1/2 inch by 3 inch FR hook fastener tape shall be installed vertically on the inside of each pocket flap (one piece on each end). Two corresponding pieces of 1 1/2 inch by 3 inch FR pile fastener tape shall be installed horizontally on the outside of each pocket near the top (one piece on each end) and positioned to engage the hook fastener tape.

KNEE REINFORCEMENTS

The knee area shall be reinforced with an extra layer of DragonHide material; or equivalent. The knee reinforcement shall be slightly offset to the inside of the leg to insure proper coverage when bending, kneeling and crawling. The knee reinforcements shall measure 10 inches wide by 12 inches high and shall be double stitched to the outside of the outer shell in the knee area for greater strength and abrasion resistance.

TROUSER CUFF REINFORCEMENTS

The cuff area of the trousers shall be reinforced with an extra layer of DragonHide material; or equivalent. The cuff reinforcement shall not be less than 2 inches in width and folded in half, approximately one half inside and one half outside the end of the legs for greater strength and abrasion resistance. The cuff reinforcement shall be double stitched to the outer shell. A female snap fastener half shall be installed at the end of each tab and shall align with the male snap fastener halves installed at the bottom of the trouser thermal liner/moisture barrier. The tab mounted snap fasteners shall secure the trouser thermal liner/moisture barrier to the outer shell within three inches of the cuff.

REVERSE BOOT CUT

The outer shell trouser leg cuffs will be constructed such that the back of the leg is approximately 1 inch shorter than the front. The liner will also have a reverse boot cut at the rear of the cuff and a concave cut at the front to keep the liner from hanging below the shell. This construction feature will minimize the chance of premature wear of the cuffs and injuries due to falls as a result of walking on the trouser cuffs.

RETROREFLECTIVE FLUORESCENT TRIM

The trousers shall have a stripe of retroreflective fluorescent trim encircling each leg below the knee to comply with the requirements of NFPA #1971 (2000 revision) in 3 inch lime/yellow Triple Trim (L/Y borders with silver center).

PADDED SUSPENDERS & ATTACHMENT

Each pair of trousers will include a pair of padded rip-cord suspenders meeting the specification. On the inside waistband shall be attachments for the standard "H" style suspenders. There will be four attachments total – 2 front, 2 back. The suspender attachments shall be constructed of a double layer of black Nomex measuring 1/2 inch wide by 3-inches long. With lime/yellow reflective on strap. They shall be sewn in a horizontal position on the ends only to form a loop. The appearance will be much like a horizontal belt loop to capture the suspender ends.

A pair of "H" suspenders shall be specially configured for use with the trousers. The main body of the suspenders shall be constructed of 2 inch wide black strap webbing. The suspenders shall run over each shoulder to a point approximately shoulder blade high on the back, where they shall be joined by a 2 inch wide horizontal piece of webbing measuring approximately 8-inches long, forming the "H". This shall prevent the suspenders from slipping off the shoulders. The shoulder area of the suspenders will be padded for comfort.

The rear ends of the suspenders will be sewn to 2-inch wide elasticized webbing extensions measuring approximately 8-inches in length and terminating with thermoplastic loops. The forward ends of the suspender straps shall be equipped with specially configured non-slip metal slides.

Threaded through and attached to the thermoplastic loops on the forward and rear ends of the suspenders will be black Nomex suspender attachments incorporating two snap fasteners. The Nomex suspender attachments are to be threaded through the suspender attachment loops on the inside waistband of the trousers. The Nomex suspender attachments will then fold over and attachment to themselves securing the suspender to the trousers.

*Any and all exceptions to the above specifications must be clearly stated for each heading. Use additional pages to list exceptions and fully explain them. Bidders shall include the added cost to bring the item bid into compliance with the specifications.

NOTICE TO BIDDER:

Read all specifications listed.

Price order as listed within specifications.

List all warranties.

Bidder must sell to departments regardless of number of suits ordered or give written letter to department why order cannot be made.

Final sell will be after department has inspected suits for workmanship, spelling and fit.

FIRE HOSE

<u>ITEM</u>	<u>PRICE</u>
<u>EPDM RUBBER LINED DOUBLE JACKET</u>	
1 1/2"	
1 3/4"	
2"	
2 1/2"	
3"	
FIRE DEPARTMENT NAME	
SERIAL NUNMBER STAMPED	
<u>LDH SUPPY LINE</u>	
4"	
5"	
6"	
STENCILING	
<u>SMALL DIAMETER SUPPLY LINE RUBBER COVERED</u>	
1"	
1 1/2"	
1 3/4"	
2"	
2 1/2"	
3"	
FIRE DEPARTMENT NAME	
COUPLING SERIAL NUMBER STAMPED	
<u>FIRE ENGINE BOOSTER HOSE</u>	
3/4"	
1"	

Pittsburg County Fire Hose Specification

For EPDM Rubber Lined Double Jacket Fire Hose

Quality: The fire hose to be supplied under this specification is a premium quality, double, jacket municipal fire hose. All materials used in the fabrication of the hose shall be of the best quality commercially available.

TECHNICAL INFORMATION

The hose must meet all the requirements of NFPA 1961, Standard on Fire Hose (2007 Edition).
The manufacturer of the hose shall be ISO 9001-2008 quality certified.

Jackets: The jackets shall be evenly and firmly woven, free from unsightly defects, dirt, knots, lumps, irregularities or twist that might affect the serviceability of the finished product. Each jacket shall be seamless and shall have polyester filler yarns woven around the hose throughout its length, with the warp ends interwoven with the warp yarn covering the filler yarns.

Warp ends of both the inner and outer jackets shall be spun staple polyester developed, designed and processed for the fire hose jacket warp yarns. The use of nylon, polyamide, or rayon yarns used in the warp or filler direction is not allowed. The use of any warp yarns of filament or entangled construction is expressly forbidden.

Filler yarns of both the inner and outer jackets shall be high-tenacity filament polyester developed, designed, and processed for the fire hose jacket filler yarns. These filament polyester yarns shall be free from defects that are unsightly or may affect the serviceability of the finished hose. The staple polyester warp ends must completely cover and protect the filament polyester filler yarns.

The inner jacket shall be of reverse twill weave, to allow for a smooth waterway.

Wear Guard: When specified, is a treatment for maximum abrasion resistance. This is a specially developed impregnated coating with a built in flame retardant. Wear Guard is applied to the outer jacket by a mechanical process which increases abrasion resistance by 6 times over standard impregnation. It greatly increases heat and flame resistance, almost eliminates water pickup and adds superb resistance to petro chemicals and displays extreme resistance to bacterial and mildew growth. Colors available: Yellow, Orange, Blue, Forest Green, Tan and Black

Lining: The rubber shall be a single ply extrusion of EPDM polymer which naturally resists ozone and oxidation. Styrene Butadiene Rubber (SBR) which is not a natural resistor is Not Acceptable, Thermoplastic liners such as polyurethane is also Not Acceptable. The surface must be smooth and free from corrugations. The lining thickness shall be tightly controlled to reduce weight and kink radius.

Thickness:	1½", 1¾", 2" & 2½":	0.034 to 0.046"	3":	0.042 to 0.046"
	Tensile Strength:	1600 psi minimum		

Elongation: 500% minimum

Ozone Resistance: Lining specimens shall be subjected to ASTM D 1149-91, "Standard Test Method for Rubber Deterioration- Surface Ozone Cracking in a Chamber". Specimens shall be prepared in accordance with ASTM D 518-86, "Standard Test Method for Rubber Deterioration- Surface Cracking" Procedure C, and shall be elongated 15%. Ozone concentration shall be 100+/-5 parts per hundred million by volume. Temperature shall be 40.0° +/-1.0°C (104°F). Time shall be 100 hours. There shall be no appearance of cracking or crazing when viewed under a 7- power magnifying glass at any time during or at the end of the 100 hour exposure.

an overlap is not acceptable. The adhesion shall be such that the rate of separation of a 1½" strip of lining, transversely cut, shall not be greater than 1" per minute under a weight of 18 lbs. No Exceptions. Thickness of liner and adhesive shall not exceed 0.052" for 1½" through 2½" hose, and 0.062" for 3" hose.

Low Temperature Flexibility: The hose shall be capable of performing in sub-zero conditions. A 3-foot section of hose shall be exposed to a temperature of -54°+ / - 2°C (-85°+ / -3° F) for a period of 24 hours. At the end of the exposure period, and while maintained at the -55°C exposure temperature, the hose shall be rapidly bent 180° double on itself, first one way and then the other. There shall be no cracking or breaking of the jacket or liner. Leakage shall be cause for rejection.

Hydrostatic Test:

Hydrostatic tests shall be conducted on hose equipped with the couplings to be delivered in accordance with NFPA 1961. Each length of hose is to be subjected to a hydrostatic proof test pressure of 800 psi for at least 15 seconds and not more than 1 minute. Higher test pressures which may weaken the hose are expressly forbidden.

Twist: The hose shall not twist more than 4-1/4 turns per 50 ft. for the 1½", 1¾", and 2" sizes, and not more than 1 ¾ turns per 50 ft. for the 2½" and 3" sizes under a pressure of 800 psi. No final twist in a direction to loosen the couplings shall be permitted.

Warp: The hose shall not warp more than 20" from a straight line drawn from center to center of the fittings at the ends of the hose, and the hose shall not rise from the table.

Expansion: The expansion in circumference of the hose between 10 and 800 psi shall not exceed 8%.

Elongation: The elongation between 10 and 800 psi shall not exceed 8% for the 1½, 1¾, 2" and 2½" sizes, and shall not exceed 10% for the 3" size.

Burst Test: A 3-foot sample of hose chosen at random shall stand without failure a hydrostatic pressure of 1200 psi while lying straight or curved on a 27" radius. Retention of the coupling to the hose shall equal or exceed the burst pressure.

Kink Test: A full length shall withstand, while kinked, without failure, a hydrostatic pressure of 600 psi.

Diameter: The hose shall have an internal diameter of not less than the trade size of the hose, except that internal diameter of the 2½" hose shall not be less than 2-9/16".

Method of Testing: All measurements and tests to determine compliance of the fire hose with the specified requirements shall be made in accordance with ASTM D 380-87, "Standard Test Methods for Rubber Hose", except otherwise specified. All tests shall be conducted at the point of manufacture, or at a laboratory equipped for such testing. All tests shall be performed as specified in NFPA 1961 (Current Edition). Hydrostatic tests shall be conducted under controlled conditions employing equipment capable of supplying a uniform pressure.

Warranty: The fire hose furnished under the terms of this proposal has a potential service life of ten years, barring mistreatment or accidental damage that would render the hose unfit for service. The manufacturer warrants the hose to be free from defects in materials and workmanship for a period of ten years. This warranty shall provide for the repair or replacement of hose and couplings proven to have failed due to faulty material or workmanship.

Hose Size	Proof Test Pressure (psi)	Service Test Pressure (psi)	Burst Test Pressure (psi)	Kink Test Pressure (psi)	Coupling Bowl Size (in.)	Weight per 50' Uncoupled	Coil diameter Per 50'
1"	800	400	1200	600	1-3/8"	14 lbs	18"
1 ½"	800	400	1200	600	1-15/16"	17 lbs	18"
1 ¾"	800	400	1200	600	2-1/8"	19 lbs	18"
2"	800	400	1200	600	3"	25 lbs	18"
2 ½"	800	400	1200	600	3"	28 lbs	21"
3"	800	400	1200	600	3-9/16"	38 lbs	21"

Pittsburg County Fire Hose Specification

For EPDM Rubber Lined Double Jacket Fire Hose

Options:

- A. Size of Hose: 1" 1 ½" 1 ¾" 2" 2 ½" 3"**
- B. Color of Hose: Yellow, Red, Orange, Blue, Dark Green, Tan, and White**
- C. Threads: NST or NPT**
- D. Fire Department Name or Initials**
- E. Coupling Serial Number Stamped**
- F. List Length of Hose Available**

Please list cost of options if any.

Pittsburg County Fire Hose Specification

LDH SUPPLY LINE

HOSE CONSTRUCTION: Hose meeting specifications shall be made from 100% high tenacity synthetic yarn, circularly woven and completely protected and locked-in by a tough, highly resistant synthetic, extruded-through-the-weave nitrile rubber, forming a unitized construction without use of glues or adhesives of any type. Hose meets all requirements of NFPA 1961.

LINING PROPERTIES: Ultimate tensile strength of the lining and cover shall not be less than 1750 PSI.

ABRASION RESISTANCE: Hose shall withstand 30,000 cycles on the Taber Abrasion Machine. Suppliers must provide written warranties that this hose has met a minimum of 30,000 cycles or other abrasion tests such as DIN, UL will be supplied upon request.

COLD RESISTANCE: Hose shall have a capability of use down to -35 degrees F.

HEAT RESISTANCE: When subjected to a static pressure of 100 PSI, hose shall be capable of withstanding a surface temperature of 1200 degrees F for a minimum of two minutes without rupture or damage to the synthetic reinforcement.

OZONE RESISTANCE: Hose shall show no signs of cracking to the lining or cover when tested in accordance to ASTM D518 Procedure B, 100pphm at 118 degrees F for 70 hours.

CHEMICAL RESISTANCE: Exposure to sea water and contamination by most chemical substances, hydrocarbons, oils, alkalis, acids, and greases must have no effect on the short or long term performance of the hose. A chemical resistance chart will be provided along with chemical resistance data upon request to the fire department.

Color: Color shall be of high visibility yellow, red or orange. Other colors may be available upon request by the fire department.

COUPLINGS: As required by the purchaser, forged aluminum or cast aluminum Storz are standard. Extruded aluminum Storz and threaded couplings should be available. Storz couplings with plagstic tail pieces are unacceptable.

Performance characteristics:

- 1. **Hydrostatic Pressure Test:** The hose shall comply with NFPA Standard: NFPA 1961 2007 Edition.
- 2. **LOW FRICTION LOSS:** Hose must provide maximum flow with minimum friction loss.

QUALITY STARDARD: Hose must be designed and tested to meet NFPA 1961 2007 Edition standard on fire hose,

STENCILING: Custom stenciling shall be offered for department identification and sequential numerical coding in 3 inch letters and numbers.

Warranty: The manufacturer warrants the hose to be free from defects in materials and workmanship for a period of ten years. This warranty shall provide for the repair or replacement of hose and couplings proven to have failed due to faulty material or workmanship.

LARGE DIAMETER HOSE (LDH) PERFORMANCE AND WEIGHT CHART

HOSE SIZE	PROOF TEST PRESSURE (psi)	SERVICE TEST PRESSURE (psi)	BURST TEST PRESSURE (psi)	COUPLING BOWL SIZE (in.)	WEIGHT PER FOOT UNCOUPLED (lbs)
4"	500	250	750	4- 5/16"	0.7
5"	450	225	675	5-5/16"	1.0
6"	300	150	500	6-3/8"	1.35

LARGE DIAMETER SUPPLY LINE

SIZE OF HOSE TO BE BID: 4" 5" AND 6"

PITTSBURG COUNTY FIRE HOSE SPECIFICATION

FOR SMALL DIAMETER SUPPLY LINE

RUBBER COVERED

1. **HOSE CONSTRUCTION**

Hose meeting specification shall be made from 100% high tenacity synthetic yarn, circularly woven and completely protected and locked-in by a tough, highly resistant synthetic, extruded-through-the-weave nitrile rubber, forming a unitized construction without use of glues or adhesives of any type. Hose meets all requirements of NFPA 1961.

2. **LINING PROPERTIES**

Ultimate Tensile Strength of the lining and cover shall not be less than 1750 PSI. Ultimate Elongation shall be 500 percent minimum. Accelerated Aging Test consists of the tensile strength and ultimate elongation of the vulcanized rubber compound which has been subjected to the action of oxygen at a pressure of 300 PSI and a temperature of 158 degrees for a period of 96 hours while retaining 60 percent of its originally stated properties.

3. **ABRASION RESISTANCE**

Hose shall withstand 30,000 cycles on the Taber Abrasion Machine (H-22 Wheel: 1 kg). Firequip Inc. will provide written warranties that the Hydro Flow SDH-PF Supply Line meets a minimum of 30,000 cycles. Other abrasion test results (DIN, UL, etc.) can be supplied on request.

4. **COLD RESISTANCE**

Hose shall have a capability of use down to -35 degrees F. Hose shall have no apparent damage to cover, reinforcement or lining when subjected to the following cold bending test. A 50 ft. length of dry hose is to firmly coiled and placed in a cold box at -35 degrees F for duration of 24 hours. Immediately after removal of the hose from the box, hose should be uncoiled and laid out by the operator. Following this procedure, the hose shall not leak nor show any damage to the reinforcement when subjected to the hydrostatic acceptance test pressures.

5. **HEAT RESISTANCE**

When subjected to a static pressure of 100 PSI, hose shall be capable of withstanding a surface temperature of 1200 degrees F for minimum of two minutes without rupture or damage to the synthetic reinforcement.

6. **OZONE RESISTANCE**

Hose shall show no visible signs of cracking to the lining or cover when tested in accordance to ASTM D518 Procedure B, 100pphm at 118 degrees F for 70 hours.

7. **CHEMICAL RESISTANCE:**

Exposure to sea water and contamination by most chemical substances, hydrocarbons, oils, alkalis, acids, and greases must have no effect on the short or long term performance of the hose. A chemical resistance chart is available and Firequip Inc. will provide specific chemical resistance data on request for unique applications.

8. **COLOR**

Color shall be of HIGH VISIBILITY yellow or red. Other colors are available upon request.

9. **COUPLINGS**

As required by purchaser with expansion ring threaded couplings as standard.

10. **PERFORMANCE CHARACTERISTICS**

- 10.1. Hydrostatic Pressure Test: The hose shall comply with the National Fire Protection Association Standard: NFPA 1961 Current Edition.
- 10.2. Low Friction Loss: The ultra-smooth lining and resilient expansion qualities provide maximum flow with minimum friction loss.
- 10.3. Ease of Handling: Unique construction provides a very flexible, kink resistant, maneuverable hose which packs tightly in hose bed.

11. **QUALITY ASSURANCE PROVISIONS**

- 11.1. Inspection: Purchasing Agent shall reserve the right to visit the manufacturing plant during each phase of the production operations. Hose construction, lining and cover properties, safety factors and performance characteristics will all be taken into consideration, insuring that the hose to be supplied is made exactly to these specifications.
- 11.2. Quality Standard: Hose is designed and tested to meet NFPA 1961 (current edition) Standards on Fire Hose. The manufacturer shall be ISO 9001-2008 quality certified. The fire hose furnished under the terms of this proposal has a potential service life of ten years, barring mistreatment or accidental damage that would render the hose unfit for service.

12. **WARRANTY:**

The manufacturer warrants the hose to be free from defects in materials and workmanship for a period of ten years. This warranty shall provide for the repair or replacement of hose and couplings proven to have failed due to faulty material or workmanship.

SMALL DIAMETER HOSE

PERFORMANCE AND WEIGHT CHART

HOSE SIZE	PROOF TEST PRESSURE (psi)	SERVICE TEST PRESSURE (psi)	BURST TEST PRESSURE (psi)	COUPLING BOWL SIZE (in.)	WEIGHT PER 50' UNCLPD (lbs)
1"	600	300	900	1-3/16"	9
1 1/2"	600	300	900	1-15/16"	11
1 3/4"	600	300	900	2-1/16"	13
2"	600	300	900	2-5/16"	15
2 1/2"	600	300	900	2-7/8"	23
3"	600	300	900	3-5/16"	25

Pittsburg County Fire Hose Specification
For SMALL DIAMETER SUPPLY LINE
RUBBER COVERED Fire Hose

Options:

- A. Size of Hose: 1" 1 ½" 1 ¾" 2" 2 ½" 3"**
- B. Color of Hose: High Visibility Yellow, Red, with other colors available upon request.**
- C. Threads: NH or NPSH**
- D. Fire Department Name or Initials**
- E. Coupling Serial Number Stamped**
- F. List Length of Hose Available**

Please list, cost of options if any.

PITTSBURG COUNTY FIRE HOSE SPECIFICATION

FOR FIRE ENGINE BOOSTER HOSE

PRESSURE CONTRACTION and ELONGATION-When pressurized, a poorly constructed hose may contract or elongate. This can endanger a firefighter in a high place or in a tight spot. It can also damage equipment such as hose reels which can actually be crushed. Fire hose should be made with precision reinforcement angles to control change under pressure to avoid these problems.

DURABLE BRIGHT RED COVER-Cover must look good and last longer for overall cost effectiveness and reliability. Compounding resists abrasion, gouging, ultra-violet and ozone aging.

LONG LENGTHS-Hose can be produced in continuous lengths of 200 feet for 1 inch and 300 feet for ¾ inch. This reduces the number of couplings connections required, reducing cost and increasing hose integrity. Shorter hose lengths may be required as specified by the fire department.

SAFETY FACTOR-A 4:1 safety factor shall be required for safety and reliability. This hose must be rated for 3200 minimum burst pressure.

UL 92 DESIGN AND PERFORMANCE CRITERIA- Booster hose must meet or exceed the requirements listed in UL 92 speciation for 800 psi booster hose.

APPLICABLE SPECIFICATIONS: Unless otherwise specifically designated in this specification, all measurements and test necessary to determine compliance of the hose with the specified requirements shall be made in accordance with Standard Specifications for Testing Rubber Hose, AZTM, D-380-81.

TYPES and SIZES:

- 1.**The type of yarn shall be four spirals of continuous filament aramid yarn.
- 2.**The hose size shall be 1 inch or ¾ inch nominal diameter.

4. TUBE CONSTRUCTION DETAIL:

- a. The liner tube shall be of synthetic rubber.
- b. The tube shall be extruded of uniform thickness throughout its length, the waterway of the tube shall be smooth and free from imperfections.
- c. The thickness of the tube shall be not less than .060 inches.
- d. The adhesion between the layer and reinforcement between tube and reinforcement, or between the cover and reinforcement shall be such that a weight of 10 pounds suspended from a ring specimen 1" wide will cause separation at a rate not greater than 1 inch per minute.
- e. When tested within 50 days from date shipment is received, a section of the liner tube shall comply with the following requirements. The test specimen shall be cut along the hose axis.
 1. Tensile strength, minimum _____1000 PSI
 2. Elongation, minimum _____250%
 3. Accelerated Air-Oven Aging (70 hours at 212 degrees Fahrenheit)
Maximum Tensile Loss _____20%
Maximum Elongation Loss _____20%

5. REINFORCEMENT DETAIL:

- a. Reinforcement shall consist of four spirals of continuous filament aramid yarn.
- b. The reinforcement shall be evenly applied, free from defects in material and workmanship that are unsightly or may affect the serviceability of the finished hose.

6. FINISHED HOSE:

- a. The internal diameter of 1" hose shall be 1 inch \pm 3/64" and 3/4" hose shall be 3/4" \pm 3/64".
- b. The outside diameter of the hose shall be 1.5 inches \pm 1/16" and 3/4" hose shall be 1-3/16".
- c. Each piece of hose of nominal 50 foot length shall be supplied in such additional length as will permit the attachment of coupling fittings and still provide a minimum of 50 feet of hose, from back of couplings, when measured under 10 PSI water pressure.
- d. The weight of 50 feet of 1" hose, untreated, without couplings is approximately 30 pounds. The weight of a 100 foot hose without couplings is about 60 lbs, and 50 ft of 3/4" hose is 21 lbs. and 100 ft is 42 lbs.
- e. An 18 inch length, while lying flat and straight shall not burst under 3200 PSI.
- f. Each length of hose shall withstand hydraulic test pressure of not less than 1600 PSI for one minute.
- g. The elongation between 10 and 800 PSI shall not exceed 6%.
- h. Twist of the hose in direction to loosen couplings, between 10 and 800 PSI shall not exceed 7" per foot.

7. COUPLINGS:

- a. Two piece reattachable or permanent crimped swage couplings can be used.

8. WARRANTY:

The manufacturer warrants the hose to be free from defects in materials and workmanship for a period of five years. This warranty shall provide for the repair or replacement of hose and couplings proven to have failed due to faulty material or workmanship.

FIRE ENGINE BOOSTER HOSE PERFORMANCE AND WEIGHT CHART

Hose Size	Working Pressure (psi)	Burst Test Pressure (psi)	Coupling Bowl Size (in.)	Weight per 50' Uncoupled	Weight per 100' Uncoupled
3/4"	800	3200	1'-1/4"	21 lbs	42 lbs
1"	800	3200	1'-1/2"	30 lbs	60 lbs
1.5"	200	600	2"	50 lbs	100 lbs

Pittsburg County Fire Hose Specification

For FIRE ENGINE BOOSTER Hose

Options:

- A. Size of Hose: $\frac{3}{4}$ " 1"**
- B. Color of Hose: Red,**
- C. Threads: NH**
- D. List Length of Hose Available**

Please list, cost of options if any.

WILDLAND GEAR

ITEM	PRICE
Nomex 7.5oz Coverall	
Deparment Name on Shoulder	
Indura Double Duty Wildland Pant	
<u>Two Piece Wildland 9oz Suit</u>	
Indura 9oz Coat	
Department Name on Shoulder	
Indura 9oz Pant	
Wildland Suspenders	
<u>Two Piece Wildland 7.5 oz Suit</u>	
Nomex 7.5oz Coat	
Department Name on Shoulder	
Nomex 7.5oz Pant	
Wildland Suspenders	

Pittsburg County Wildland Suit

The one piece wildland coverall

Specification for yellow 7.5 oz Indura Coverall

1. Throat tab.
2. Inner zipper, outer hook and loop closure.
3. Adjustable Velcro closure on sleeves.
4. Two utility loops.
5. 9" Radio pocket on left chest with mic clip.
6. Hook and loop adjustable cuffs.
7. Two full bellow cargo pockets on legs.
8. NFPA Lime Yellow/Silver 2" Scotchlite trim on leg and arm cuffs
9. Elastic at waistband.
10. Reinforced elbows and knees.
11. Breast pocket.
12. Zippered leg opening
9. Must provide sizing chart.
10. Provide the following sizes: x-small small, medium, large, x-large, 2x-large, 3x-large and 4x- large

Options:

1. Department name on shoulders

Pittsburg County Wildland Suit

Double Duty Wildland Pant

Specification for Yellow Indura or Green Indura pant

1. Signature relaxed fit for maximum mobility and comfort.
2. Rear of waistband must be elasticized for maximum freedom of movement and comfort.
3. Oversized double needle top stitched bellowed cargo pockets on thighs must expand to give plenty of storage for firefighting accessories and secure with hook and loop closures.
4. Front slash pockets with extra deep bags and contoured to keep contents from falling out of gear.
5. Two large rear double needle top stitched patch pockets with hook and loop flap closures.
6. Corrosion-resistance brass snap at waist.
7. Double reinforced crotch panel to extend wear life.
8. Hook and loop ankle straps backed with self-fabric to adjust close through metal box ring take up.
9. Leg outseams to be sewn with five-thread safety stitch then top stitched with a double-needle lockstitch.
10. All points of stress must be bartacked.
11. Must meet or exceed NFPA 1977 Standard on Protective Clothing and Equipment for Wildland Fire Fighting and NFPA 1975 for Station Wear.
12. Must provide sizing chart.
13. Provide the following sizes: small, medium, large, x-large, 2x-large, and 3x-large

Pittsburg County Wildland Suit

Two Piece

The two piece wildland suit shall consist of a coat and pant.

Specification for yellow 9 oz Indura Coat

1. Wide collar with throat tab.
2. Zipper/Velcro double front closure.
3. Adjustable Velcro closure on sleeves.
4. Two ply double stitched cuff reinforcement.
5. Radio pocket.
6. Glove strap.
7. Pair of 10" x 10" pockets with Velcro closure.
8. NFPA Lime Yellow/Silver 2" Scotchlite trim.
9. Must provide sizing chart.
10. Provide the following sizes: small, medium, large, x-large, 2x-large, 3x-large and 4x-large

Specification for yellow 9 oz Indura Pant

1. Two adjustable take up straps.
2. Zipper/Snap fly closure.
3. NFPA Lime Yellow/Silver 2" Scotchlite trim.
4. Two ply double stitched cuff reinforcement.
- 5.. Adjustable Velcro closure on pant leg bottom.
6. Leather knee reinforcement..
7. Must provide sizing chart.
8. Provide the following sizes: small, medium, large, x-large, 2x-large, 3x-large and 4x-large

Must list price per size.

Options:

- 1. Department name across shoulders
- 2. Wildland suspenders with pants

Pittsburg County Wildland Suit

Two Piece

The two piece wildland suit shall consist of a coat and pant.

Specification for yellow 7.5 oz Nomex IIIA Coat

1. Full cut design
2. Full zippered front closure with #10 brass zipper
3. Capped shoulder design with built in ease for full freedom of movement
4. Gusset cuff with hook and loop closure
5. Alpine style collar, radio pocket with mic tab
6. Unidirectional front cargo pockets with concealed hand warmers.
7. Large interior storage pocket and glove hanger tab.
8. 3M Scotchlite Triple trim around base, back and around forearms.
9. Nomex thread throughout the garment
10. ISO 9001 registered and UL certified
11. Must provide sizing chart.
12. Provide the following sizes: small, medium, large, x-large, 2x-large, and 3x-large

Specification for yellow 7.5 oz Nomex IIIA Pant

1. Full cut design.
2. Nomex zippered fly with nickel snap closure.
3. Nomex zippered side pass through pockets.
4. Double layered fabric knees.
5. Two inch elastic backband with seven large belt loops.
6. Unidirectional cargo pockets at thighs.
7. Nomex zippered leg opening for easy donning and doffing

8. Double back dee.

9. Hook and loop cuff closures for tight fit at the boot.

10. 3M Scotchlite Triple trim around calves.

11. Nomex thread throughout garment.

12. ISO 9001 registered and UL certified.

13. Must provide sizing chart.

14. Provide the following sizes: small, medium, large, x-large, 2x-large, and 3x-large

Must list price per size.

Options:

1. Department name across shoulders
2. Wildland suspenders with pants