

**CAPITAL IMPROVEMENT PROGRAM**  
**City of Missoula CIP Project Request Form FY 2017-2021**

<b>Program Category:</b>	<b>Project Title:</b>		<b>15 Project #</b>	<b>16 Project #</b>	<b>17 Project #</b>
Public Safety	Station 4 Repairs		PS03	PS03	PS-03

**Description and justification of project and funding sources:**

Stabilize soils, improve drainage, and resurface Station 4 training ground area: \$80,795. This area has several sinkholes and the concrete and asphalt surfaces have become cracked and uneven creating a trip/fall hazard. Asphalt has been patched numerous times, but sinkholes continue to resurface due to silty soils and poor water dispersion. Seal Station 4 underground fire pump test tank: \$17,500. Tank is leaking into surrounding soils and will not hold water. This situation compounds the poor soil conditions and water dispersion problems in the training area.

<b>Is this equipment prioritized on an equipment replacement schedule?</b>	Yes	No	NA
			x
<b>Is there ongoing Operating and/or Maintenance costs upon completion of project?</b>	Yes	No	NA
			x

**Are there any site requirements:**

N/A

**How is this project going to be funded:**

REVENUE	Funding Source	Accounting Code	FY17	FY18	FY19	FY20	FY21	Funded in Prior Years
	GENERAL FUND		98,295					
			98,295	-	-	-	-	-

**How is this project going to be spent:**

EXPENSE	Budgeted Funds	Accounting Code	FY17	FY18	FY19	FY20	FY21	Spent in Prior Years
	A. Land Cost B. Construction Cost C. Contingencies (10% of B) D. Design & Engineering (15% of B) E. Percent for Art (1% of B) F. Equipment Costs G. Other			98,295				
			98,295	-	-	-	-	-

**Does this project have any additional impact on the operating budget:**

OPERATING BUDGET COSTS	Expense Object	Accounting Code	FY17	FY18	FY19	FY20	FY21	Spent in Prior Years
	Personnel Supplies Purchased Services Fixed Charges Capital Outlay Debt Service							
			-	-	-	-	-	-

Description of additional operating budget impact:

<b>Responsible Person:</b>	<b>Responsible Department:</b>	<b>Date Submitted to Finance</b>	<b>Today's Date and Time</b>	<b>Preparer's Initials</b>	<b>Total Score</b>
Jason Diehl	Fire		4/20/2016 13:23	cs	56

## CAPITAL IMPROVEMENT PROGRAM

### Project Rating

(See C.I.P. Instructions For Explanation of Criteria)

Program Category:	Project Title:				10 Project #	
Public Safety	Station 4 Repairs				PS-03	
Qualitative Analysis		Yes	No	Comments		
1. Is the project necessary to meet federal, state, or local legal requirements? This criterion includes projects mandated by Court Order to meet requirements of law or other requirements. Of special concern is that the project be accessible to the handicapped.		x		Cracked and uneven training ground surfaces create safety hazards for firefighters and public. The pump test tank is necessary for required annual pump tests.		
2. Is the project necessary to fulfill a contractual requirement? This criterion includes Federal or State grants which require local participation. Indicate the Grant name and number in the comment column.			x			
3. Is this project urgently required? Will delay result in curtailment of an essential service? This statement should be checked "Yes" only if an emergency is clearly indicated; otherwise, answer "No". If "Yes", be sure to give full justification.			x			
4. Does the project provide for and/or improve public health and/or public safety? This criterion should be answered "No" unless public health and/or safety can be shown to be an urgent or critical factor.		x		This project will improve firefighter and public safety.		
Quantitative Analysis		Raw Score Range	Comments		Weight	Total Score
5. Does the project result in maximum benefit to the community from the investment dollar?		(0-3) 3	Project will reduce workers compensation and liability exposure for the City and reduce water consumption at this facility.		5	15
6. Does the project require speedy implementation in order to assure its maximum effectiveness?		(0-3) 3	Speedy implementation would remove the safety hazards and prevent further water leakage from the underground pump test tank.		4	12
7. Does the project conserve energy, cultural or natural resources, or reduce pollution?		(0-3) 3	This project will prevent continued water loss from the underground pump test tank.		3	9
8. Does the project improve or expand upon essential City services where such services are recognized and accepted as being necessary and effective?		(0-2) 2	Training grounds and pump test tank are essential to the effective operation of the fire department.		4	8
9. Does the project specifically relate to the City's strategic planning priorities or other plans?		(0-3) 3	This project promotes both employee safety and resource conservation.		4	12
<b>Total Score</b>						<b>56</b>

<b>17 Project #</b>	<b>Project Title:</b>
PS-03	Station 4 Repairs

Date	Author	Notes

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# T & T CONTRACTING, INC

2172 US HWY 93  
P.O BOX 67  
VICTOR, MT 59875  
PHONE: 406-642-9770  
FAX: 406-642-9799

January 22, 2014

To: Missoula City Fire Department  
From: T&T Contracting, Inc.  
R.E. Fire Station #4 Parking Lot Reconstruction- Assistant Chief Jeffery Brandt

T&T Contracting, Inc. Budget Estimate

Site work prices include the following:

-Mobilization	1 Lump Sum @ \$5000.00
- Asphalt Removal	1 Lump Sum @ \$ 3000.00
-Site Excavation 18"	740 CY @ 7.00 = \$ 5180.00
-Geotextile	1500SY @ 1.50 = \$ 2250.00
-3" Minus Base 12"	490 CY @ 15.00 = \$ 7350.00
- ¾" Crushed Base Course 3"	125 CY @ \$40.00 = \$ 5000.00
- 3" Asphalt Paving	13,275 SF @ \$ 1.50 = \$ 19,915.00
- Drainage Sumps	3 Each @ \$ 2,000.00 = \$ 6,000.00
-12" PVC Pipe	200 LF @ \$20.00 = \$ 4,000.00
- Engineering Contingency 15%	\$ 8,600.00
- Surveying	\$ 5,000.00
- Testing	\$ 2,500.00
<u>-Change Order Contingency</u>	<u>\$ 7,000.00</u>

**Budget Estimate Total \$ 80,795.00**

Thank you  
David



406-327-8807

7910 Thornton Dr.  
Missoula, MT 59808

veci\_01@msn.com  
Fax: (406)327-8896

February 21, 2014

Missoula Fire House #4  
Jeff Brandt, Asst. Fire Chief  
Missoula, MT 59801

Attn: Jeff

### PROPOSAL

VECI proposes to clean the existing liner of the interior tank as necessary, sand blast and clean the tank, and then apply Specialty Products HT101, as per Missoula specs. The area to be coated is approximately 1,000 square feet.

VECI will provide all labor, material and equipment to complete the project for the total sum of:  
\$17,500.00 (seventeen thousand five hundred dollars and no cents).

The existing tanks will need to be drained and dried prior to commencement of work by VECI.

If you have any questions, please let me know. If this proposal meets with your approval, please sign below and return.

Cordially,



Jared Hanson  
VECI

Proposal accepted by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

*Proposal must be signed, dated and returned before any work begins.  
Proposal may be withdrawn after 30 days.*



**POLYSHIELD HT-101™**  
**HIGH STRENGTH ELONGATION POLYUREA ELASTOMER**  
Revised 07.14.11

## DESCRIPTION

POLYSHIELD HT-101™ is a state-of-the-art, high-performance, spray-applied, plural-component, pure polyurea elastomer. This system is based on amine-terminated polyether resins, amine chain extenders, and MDI prepolymers. It provides a flexible, resilient, tough, monolithic membrane with water and chemical resistance.

## FEATURES

- 100% solids. No solvents. No VOCs.
- Fast-set: handle in two minutes or less.
- Extended gel time to allow deep surface penetration.
- High dry temperature stability to 250° F (121 °C).
- High abrasion resistance.

## RECOMMENDED USES

- Coating for steel or other substrates exposed to a corrosive environment
- Liner for concrete tanks, ponds, lagoons, reservoirs, dikes, irrigation ditches, tunnels, barges, etc.
- Replace or repair failed existing sheet membrane liners
- Steel tanks, silos, and pipes
- Encapsulation for EPS or other types of flotation materials
- Encapsulation for asbestos, lead paint, or other dry hazardous materials (Consult SPI)
- Earthen containment used with or without geotextile
- Wood decks

## COLORS

POLYSHIELD HT-101™ is available in SPI standard colors (Sand, Medium Grey, and Black). It should be noted that POLYSHIELD HT-101™ is an aromatic polyurea, therefore, as with all aromatics color change and superficial oxidation will occur.

Aliphatic urethane, polyurea, and other suitable aliphatic topcoats can be used when long-term color stability and increased longevity in full sun exposure are of critical importance.



**SPI - The Single Source Solution Since 1974**  
Serving the Plural-Component Industry

© 2002 Specialty Products, Inc.

## WET PROPERTIES @ 77°F (25°C)

Solids by Volume	100%
Solids by Weight	100%
Volatile Organic Compounds	0 lbs/gal (0g/l)
Theoretical Coverage DFT	100 sq. ft. @ 16 mils/gal
Weight per gallon (approx.)	8.55 lbs. (3.87 kg)
Number of Coats	1-2
Mix Ratio	1 "A": 1 "B"
Viscosity (cps) @ 77° F (25 °C)	A: 800 approx. B: 550 approx.
Shelf Life Unopened Containers @ 60-90°F (15-32°C)	Six months

Minimum material/container temperature for POLYSHIELD HT-101™ application is 70°F (21°C).

## DRY PROPERTIES\* @ 70 mils (1.77 mm)\*

Tensile Strength ASTM D 638	>3900 psi (27.11 mpa) Avg
Elongation @ 77°F (25°C)	>600% Average
Hardness (Shore A) ASTM D 2240	>95 (0s)
Hardness (Shore D) ASTM D 2240	>50 (0s)
Tear Resistance ASTM D 624	>400 PLI (70.04 kN/m) Avg

## CURING SCHEDULE

Gel	8 sec.
Tack Free	22 sec.
Post Cure**	24 hours
Recoat	0 min. - 8 hours
300% Modulus	>2000

\*All cured film properties are approximate since the processing parameters, ad-mixture types, and quantities will change physical properties of the cured elastomer. All samples for the above tests were force cured or aged for more than three weeks, it is recommended that the user perform their own independent testing. The samples for tests were sprayed with SPI Guser 2005 HP @ 2500 psi dynamic (172 bar). Primaries/Hose Heat 170°F (77°C) Gap Pro with SPI 000 mixing chamber. Test results from Huntman Corporation.

\*\*Complete polymerization to achieve final strength can take up to several days, depending on a variety of conditions.

## GENERAL APPLICATION INSTRUCTIONS

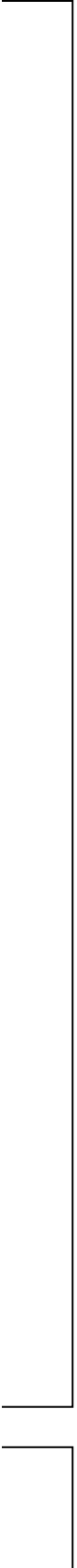
Apply POLYSHIELD HT-101™ only to clean, dry, sound surfaces free of loose particles or other foreign matter. A primer may be required; subject to type and/or condition of the substrate. Consult technical service personnel for specific primer recommendations and substrate preparation procedures.

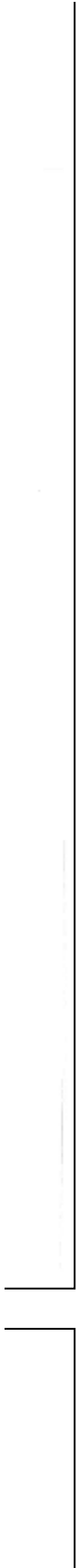
POLYSHIELD HT-101™ can be sprayed over a broad range of ambient and substrate temperatures. Contact technical service personnel for specific recommendations, pricing, and availability of spray and auxiliary equipment.

It is recommended that POLYSHIELD HT-101™ be sprayed in multi-directional (north-south/east-west) passes to ensure uniform thickness.

**Product & Equipment Technical Assistance**  
**24 hours / 7 days a week (800) 627-0773**







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