



Estimate - Turnkey 2711-2

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PREPARED BY

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ESTIMATE - TURNKEY DETAILS

41 Champion Cir, Woodcreek

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Rain water harvesting system - turnkey complete typical installation either potable or non-potable. Base price includes the following unless omitted in the Description below:

- Mobilization and Demobilization of people and equipment to the site and from the site (multi-phase jobs may incur additional M/D charges);
- Creation of tank pad on standard site (standard site = less than 12" of grade change across diameter) and application of erosion control materials around tank apron;
- Tank delivery and erection including external tank level gauge, and 2.5" fire department connection with anti vortex valve;
- Trenching for and placement of underground conveyance, pressure and electrical lines;
- Proper bedding and top sanding of all underground lines, placement of water line locate tape and back fill of all lines covered;
- Pump and pump installation;
- Tank Aeration and installation;
- Tank/pump freeze protection system (manual);
- Connection to supply (unless new construction and then this will default to the site plumber);

IF potable system - Installation of first flush diversion system, cistern aeration system and filtration components.

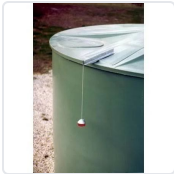

IF we are doing the gutters, then - Gutters and Rake backs to fit downspouts (subject to change due to price fluctuations)

SEE BELOW FOR SITE SPECIFIC ALLOWANCES

DESCRIPTION	QTY	TOTAL
LABOR - MTB Allowance Mobilization, Transport and Breakdown Labor Time	20 Hours	
Tank Selection Menu - Tank and Tank Build with Pad Allowance for each		
Please select 1 option		
<input type="checkbox"/> 13.8K - Silo Roof - Silver		+\$10,771.87
TANK - AL1802S - 13812 GALLONS - ZN 13812 Gallon water tank with 30 degree silo style roof and bottle cap top. 18' Diameter x 7'6" wall height.	1 Each	
Tank Ladder for ALine cisterns Fixed external ladder for access to hatch.	1 Each	
Installation and Pad Build Allowance		
TANK BUILD - AL1802 LABOR -installation of AL1802, 13812 gallons, all models.	1 Each	
AGG - Erosion Control Stone Medium rock for erosion control; tank apron.	2 Tons	

AGG - 3/4 Minus Base 3/4 Minus base material for tank pad and fill.	18 Tons
AGG - Manufactured Sand Manufactured Sand for tank base and pipe bedding.	4 Tons
LABOR - OPERATOR - Pad site or rough grading Heavy equipment operator	7 Hours
Skid Steer Skid Steer with bucket	7 Hours

Standard Equipment - (fixed price)

Levetator Levetator tank level gauge, external. 	1 Each
Standpipe - 4" Standard 4" standpipe (<5000SF)	1 Each
Pressure tank - 4 gallon Pressure balance tank to minimize pump cycling. 	1 Each

Site Work - (Allowance)

May include but is not limited to: labor to locate and expose existing underground utilities; trenching with rock saw and/or mini-excavator; placing and shading pipe bedding; placing locate tape; casing pipe with sand; back filling trenches; digging by hand in existing landscapes; removing or shaping land (rough grading) for tank placement.

Trenching (Allowance) Sub-contracted rock saw. Includes underground utility location and shovel cleaning of trenches. Occasionally there will be a Replacement tooth charge of \$12/tooth which is assessed after trenching is complete when very hard rock is encountered.	160 Linear Feet
LABOR - Locate existing UG utilities Location of existing underground utilities and hazards using location equipment and exposure of existing lines where they cross our trenching plan.	2 Hours
LABOR - Excavation - Hand digging(Allowance) Man hours to excavate by hand in areas inaccessible by heavy equipment.	16 Hours
LABOR - Trench Backfill Labor hours to cover (bed) pipe with sand, lay in water line tape and cover trenches.	8 Hours
Skid Steer Skid Steer with bucket	8 Hours

Pressure, Electrical and Conveyance (Allowances)

<p>LABOR - PEC Labor for placement of underground lines, (including conveyance lines, air lines, stand pipe and underground first flush diverter, pressure, and electrical lines); installation of aeration system; installation of pumps including in tank plumbing (pump cross), installation of filtration equipment; final connections and pressure testing of lines prior to activation.</p>	48 Hours
<p>1.25" PRESSURE LINE (PVC OR HDPE) PLUS FITTINGS 1.25" HDPE or PVC pressure lines</p>	30 Linear Feet
<p>Conveyance, materials - 4" 4" underground conveyance lines plumbed to the diversion tank, standpipe and downspouts.</p>	240 Linear Feet
<p>Downspout, Standard Standard Downspout - 4" Sch40 Pipe</p>	3 Each

External Pumps

<p>Pump - DAB E.Sybox mini 1Hp DAB E.Sybox Mini 1Hp variable frequency drive adjustable pressure pump; external. https://dabpumps.us/en/ESYBOXmini-3</p>	1 Each
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Gutters and Leaf Screening

Gutter Styles and Materials
 Choose one of the following styles

<p>Gutters - 6" K-Style - seamless - aluminum 6" standard color aluminum ogee K-Style seamless gutters. Gutters only.</p>	154 Linear Feet
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<p>Gutters - rake backs to PVC Connections from gutters to downspouts, 4" round aluminum for up to 2' eave edges.</p>	3 Each
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Gutters - Other Services
 Please select any options

<p><input type="checkbox"/> Gutter removal Labor costs to remove existing gutters; does not include haul off and disposal</p>	104 Linear Feet
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Optional Items			
Please select any options			
<input type="checkbox"/>	BULK WATER DELIVERY 2500 GALLON BULK WATER DELIVERY - For tank fill to protect warranty.	1 Load	+\$428.57
<input type="checkbox"/>	TANK LEVEL INDICATOR - WIFI REMOTE WIFI Long range water level sensor with monitoring app.	1 Each	+\$421.43
<input type="checkbox"/>	LABOR - Paint exposed PVC downspouts for each downspout - chemical etch each pipe and apply 2+ coats of exterior paint (color choice of customer) to each PVC downspout exposed, the conveyance standpipe and/or overflow pipe on tank.	16 Hours	+\$960.00
TOTAL			\$25,927.41

Job Scope or Special Notes:

Job requires us to remove the gutters on the main building and replace with new placing downspouts in areas closer to the collection cistern in order to avoid digging up asphalt all the way around the building. We would rake the gutters along the small rear porch edge to bring collection closer to the cistern. (Cost for gutter removal is optional as this is something the City may be able to do on it's own). In order to make conveyance work we would lay some pipe on the surface of the parking lot along the South wall (behind the equipment and along the East wall partially - from the SE corner to the stairs and then about 4' to the stair edge where we would pick up the 3rd downspout). Once across the asphalt we'd trench behind the garden along the fence line (assumes that the City would clear that area of accumulated debris) and then connect the lines to two downspouts off the storage building and then over to the cistern which is located 22' South of the shed. We'd run a pump suction line back to the shed, house the pump in the shed where 110V power is available and punch a hose bib into the back of the shed to service the garden area. City of Woodcreek would be responsible for asphalt repair work after we place and bed the pipe.

Terms: Please carefully review the following terms and conditions prior to signing:

Estimate contains allowances:

Though we strive to give as accurate an estimate as possible, because some field conditions are impossible determine until we begin work, accordingly the amounts noted on the estimate as an "allowance(s)" are estimated quantities and, should we exceed those quantities we will input final quantities on the final invoice, which you agree to pay. Additionally, material , labor and/or subcontractor pricing may increase from the time of signing the contract until the time the actual work is performed and we reserve the right to adjust our prices upward to meet these rising costs though we will do all that we can to prevent increases including utilizing the initial deposit money to purchase much of the more expensive materials (cistern, pump and filtration equipment) at the moment in time the deposit is received,

Optional Items:

Some of the items in this estimate are optional including but not limited to gutter screening, Wi-Fi water level gauge, Bulk water delivery (See Water for Cistern Fill, below); and painting of the exposed PVC downspouts, if any and the standpipe and overflow near the cistern. We HIGHLY recommend painting these items however we also realize that this is a service that you the client can perform for yourself if you wish or you can employ us to perform this work. When we do the work we will use a stripping agent to remove the outer coating of the PVC and apply two coats of color matched (your choice of color) to the PVC surfaces.

Water for cistern fill

All cisterns require 10% water fill at time of installation (failure to do so may void tank warranty) and to activate system and providing this water is the client's responsibility in the event that rain has not provided the required amount of water for the cistern prior to system activation. If you select the option above, we will arrange for bulk water to be delivered to the cistern prior to the completion of our installation and you will be charged as noted.

Cancellation prior to installation:

Should you wish to cancel this agreement prior to the commencement of work on your project you agree to pay a restocking/design time fee equal to 9% of the total estimated price.

Electrical Subcontractor

We employ a licensed master electrician to perform final electrical connections. Any and all work performed by our sub-contracted electrician will be passed through to you on the final invoice when we know the cost for those services (average cost is \$250.00)

Damage to existing underground lines:

Though we are diligent in attempting to locate existing underground utilities prior to trenching, we are NOT responsible for any damage to them that occurs during trenching. In the unlikely event that damage occurs, we will notify you of the damage. In some instances we can easily fix the damage (such as water and irrigation lines) other times it may require a specialty contractor. If we perform the repair we will invoice you for the time and materials for the repair on the final invoice, which you agree to pay. If the work requires a specialty contractor, together we will decide if we will administer and invoice the repairs or if you will contract separately for those repairs without our administering them. If we administer the repairs we will send a separate invoice for the amount of the work after we receive the invoice from the specialty contractor which you agree to pay.

IRRIGATION PIPE CLAUSE: In areas/jobs where there is extensive or comprehensive irrigation - we will choose a path to minimize crossings, we will do our best to locate every crossing and where possible we will we will expose and cut the irrigation pipe and wires and leave for them irrigation contractor to repair however there may be instances where we cannot locate all the irrigation and some damage to that system may occur. Prior to making these changes to irrigation we will consult with you as to whether you want to employ your own irrigation contractor and pay them directly or have us deploy a sub-contracted irrigation contractor for whose services we will bill you on the final invoice.

Composite Shingle Roofing:

Client accepts all responsibility for potable use of rainwater from shingle roofing. The TWDB/UT study on roof surfaces for RWH can be found at: https://www.twdb.texas.gov/innovativewater/rainwater/projects/rainquality/2011_02_rainquality_final_rpt.pdf

Site conditions post-construction:

Spoils from trenching and creating the tank pad (typically earth mounds and large rocks) will be left near tank site, however, upon request we will move and/or remove these materials up to 100'. Any requests to move the material more than 100' or to haul them off, will be done on a cost plus basis and we will estimate and invoice for this work separately. When we complete the trench fill in there may be rocks, up to fist sized, that will remain on or near the trench lines and there will be visible scarring on the landscape from where we have laid our lines and where the equipment has run to reach areas of construction - this is normal and we do not further mitigate site conditions.

Re-Mobilization Fee: When requested by a client to stop work and return to finish at a later date (e.g. stucco work not complete and we have to return to install downspouts) we will charge a \$1000.00 re-mobilization fee that you agree to pay.

Lead times:

Current lead times are 5-6 months however, due to the extreme nature of the weather we've been exposed to over the last year, lead times may be extended.

Draw Schedule and Payments:

40% Tank Deposit; 35% due upon completion of tank installation or in ground plumbing (whichever comes first); final 25% due upon substantial completion. In some instances the draw schedule will be modified to suit installation conditions. E.g. if we are substantially complete but waiting on a trade or contractor not under our control we may invoice 20% at that time and final 5% once the trade or contractor we are waiting on completes to allow us to complete our work.

The above specifications, costs, and terms are hereby accepted.

DEBRA HINES

DATE