

# RSH ENGINEERING, INC.

**PRE-POUR # 1 INSPECTION REPORT**









**INSP#: F08428**

**DATE: 08/27/06**

**PAGE #: 1**

**Client: John Doe**

**Address: 1234 Anywhere St. Anywhere, TX**

PIC #	DESCRIPTION	PIC #	DESCRIPTION	PIC #	DESCRIPTION	PIC #	DESCRIPTION
1	 <b>FRONT VIEW OF FUTURE SLAB</b>	2	 <b>LEFT SIDE OF HOUSE THIS FORM IS BOWED/CUPPED UPWARD IN THE MIDDLE – RECOMMEND REPLACEMENT OF THE FORMS.</b>	3	 <b>RIGHT SIDE OF HOUSE:</b>	4	 <b>BACK SIDE OF HOUSE:</b>
5	 <b>BACK SIDE OF HOUSE:</b>	6	 <b>DRAIN PIPE IS NOT PROPERLY SUPPORTED BY SAND: <u>P2604.1 TRENCHING AND BEDDING.</u> <u>PIPING SHALL BE INSTALLED IN TRENCHES SO THAT THE PIPING RESTS ON SOLID AND CONTINUOUS BEARING.</u> <u>WHEN OVER EXCAVATED, THE TRENCH SHALL BE BACKFILLED TO THE PROPER GRADE WITH COMPACTED EARTH, SAND, FINE GRAVEL OR SIMILAR GRANULAR MATERIAL. PIPING SHALL NOT BE SUPPORTED ON ROCKS OR BLOCKS AT ANY POINT. ROCKY OR UNSTABLE SOIL SHALL BE OVER EXCAVATED BY TWO OR MORE PIPE DIAMETERS AND BROUGHT TO THE PROPER GRADE WITH SUITABLE COMPACTED GRANULAR MATERIAL.</u></b>	7	 <b>SEE NOTES UNDER PIC. # 6 SUPPLY AND DRAIN PIPE IN SAME TRENCH: <u>P2904.4.1 WATER SERVICE INSTALLATION.</u> TRENCHING, PIPE INSTALLATION AND BACKFILLING SHALL BE IN ACCORDANCE WITH SECTION P2604. (SEE NOTES UNDER PIC. # 6)  WATER-SERVICE PIPE IS PERMITTED TO BE LOCATED IN THE SAME TRENCH WITH A BUILDING SEWER PROVIDED SUCH SEWER IS CONSTRUCTED OF MATERIALS LISTED FOR UNDERGROUND USE WITHIN A BUILDING IN SECTION P3002.1. (SEE PAGE # 4 FOR ACCEPTABLE MATERIALS INCLUDING PIPE AND FITTING MATERIALS INCLUDING SOLVENT CEMENT AND PRIMER SPECIFICATIONS)  IF THE BUILDING SEWER IS NOT CONSTRUCTED OF MATERIALS LISTED IN <u>SECTION P3002.1 (PG. #</u> <u>4)</u>, THE WATER-SERVICE PIPE SHALL BE SEPARATED FROM THE BUILDING SEWER BY A MINIMUM OF 5 FEET (1524 MM), MEASURED HORIZONTALLY, OF UNDISTURBED OR COMPACTED EARTH OR PLACED ON A SOLID LEDGE AT LEAST 12 INCHES (305 MM) ABOVE AND TO ONE SIDE OF THE HIGHEST POINT IN THE SEWER LINE.</b>	8	 <b>DRAIN PIPE IS NOT PROPERLY SUPPORTED BY SAND: SEE NOTES UNDER PIC. # 6</b>



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9	 1. DRAIN PIPE IS NOT PROPERLY SUPPORTED BY SAND: SEE NOTES UNDER PIC. # 6 2.	10	 EXCESS SAND AT SITE – SHOULD HAVE BEEN USED FOR THE DRAIN PIPES IN THE TRENCHES.	11	 DRAIN PIPE IS NOT PROPERLY SUPPORTED BY SAND: SEE NOTES UNDER PIC. # 6	12	 SEVERAL PLACES THE PRIMER NOT AT THE FITTING AND NOT VISIBLE AT THE FITTING – HAVE THE BUILDER CHECK FOR PROPER SEAL AND LEAKS.
13	 1. DRAIN PIPE IS NOT PROPERLY SUPPORTED BY SAND: SEE NOTES UNDER PIC. # 6 2. SUPPLY AND DRAIN PIPE IN SAME TRENCH: SEE NOTES UNDER PIC. # 7	14	 DRAIN PIPE IS NOT PROPERLY SUPPORTED BY SAND: SEE NOTES UNDER PIC. # 6	15	 COLD WATER LINE IS INSULATED ONLY HALF-WAY?? CANNOT FIGURE OUT UNLESS THIS SLEEVING IS GOING TO BE USED AT THE CONCRETE CONTACT INTERFACES.	16	 SUPPLY AND DRAIN PIPE IN SAME TRENCH: SEE NOTES UNDER PIC. # 7
17	 EXCESS SAND AT SITE – SHOULD HAVE BEEN USED FOR THE DRAIN PIPES IN THE TRENCHES.	18	 EXCESS SAND AT SITE – SHOULD HAVE BEEN USED FOR THE DRAIN PIPES IN THE TRENCHES.	19	 EXCESS SAND AT SITE – SHOULD HAVE BEEN USED FOR THE DRAIN PIPES IN THE TRENCHES.		

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**TABLE P3002.1  
DRAIN, WASTE AND VENT PIPING AND FITTING MATERIALS**

MATERIAL	STANDARD
Welded and seamless steel pipe (black or galvanized)	ASTM A 53
Cast-iron soil pipe and fittings (hub and spigot)	ASTM A 74
Cast-iron fittings (threaded)	ASTM A 126
Malleable iron fittings (threaded)	ASTM A 197
Seamless copper pipe, standard sizes	ASTM B 42
Seamless red brass pipe, standard sizes	ASTM B 43
Seamless copper tube	ASTM B 75
Seamless copper water tube Type K, L and M	ASTM B 88
ABS-DWV pipe and fittings	ASTM D 2661
PVC-DWV pipe and fittings	ASTM D 2665
3.25-inch O.D. PVC-DWV pipe and fittings	ASTM D 2949
ABS-DWV sch.40 pipe with cellular core	ASTM F 628
Co-extruded PVC plastic pipe with cellular core	ASTM F 891
Co-extruded composite ABS-DWV pipe and fittings	ASTM F 1488
Cast-iron soil pipe and fittings (hubless)	CISPI 301
Copper drainage tube (DWV)	ASTM B 306
Mechanical couplings for drain, waste and vent pipe and sewer pipe	CSA B602M
Solvent cement for ABS-DWV pipe and fittings	ASTM D 2235
Solvent cement for PVC-DWV pipe and fittings	ASTM D 2564
Socket bell for PVC-DWV pipe and fittings	ASTM D 2672
Primers for solvent cemented PVC-DWV pipe and fittings	ASTM F 656
Hubless cast-iron soil pipe and fittings	ASTM A 888
Couplings for use in connection with hubless cast-iron soil pipe and fittings	CISPI 310-95
Shielded couplings joining hubless cast-iron soil pipe and fittings	ASTM C 1277
Co-extruded composite ABS DWV schedule 40 IPS pipe (solid or cellular core) solvent cement fittings	ASTM F 1488; ASTM D 2235; ASTM D 2661; ASTM F 628
Co-extruded composite PVC DWV schedule 40 IPS pipe (solid or cellular core) solvent cement fittings	ASTM F 1488; ASTM D 2564; ASTM D 2665; ASTM F 891
Co-extruded composite PVC DWV IPS pipe-DR-PS140 PS200 solvent cement fittings	ASTM F 1488; ASTM D 2564; ASTM D 2665; ASTM F 891

For SI: 1 inch = 25.4 mm.

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JOHN DOE,

On 5/9/2006, RSH Engineering, Inc performed a Pre-pour # 1 Inspection on your property. The following areas were inspected: Plumbing pipe and slope, the forms, and stakes supporting the forms and construction/workmanship of forms.

Above in pages 1 to 3 are the findings of the Pre-pour # 1 Inspection. The items highlighted above fall under any one or all of these categories:

1. The ones that are functional, however, further evaluation and minor repair or service, or proper installation is recommended.
2. Other items identified may be defective or inadequate or improperly installed and further evaluation and major repair or replacement or proper installation is recommended.
3. Any items missing will also be highlighted above.

NOTE: ANY REPAIR WORK RECOMMENDED IN THIS REPORT SHOULD BE PERFORMED BY LICENSED, INSURED, CONTRACTORS ONLY, AND WITH PROPER BUILDING PERMITS. ADDITIONAL DEFECTS MAY BE DISCOVERED BY THE CONTRACTOR PERFORMING THE REPAIR, THAT MAY REQUIRE ADDITIONAL WORK OR REPLACEMENT ABOVE AND BEYOND THE RECOMMENDATIONS MADE IN THIS REPORT. OTHER INSPECTORS, CONTRACTORS, APPRAISERS, ADJUSTERS, OWNERS, REALTORS, ETC., MAY HAVE OPINIONS THAT DIFFER FROM THE OPINIONS OF THIS INSPECTION COMPANY.

If you have any questions or comments regarding this Pre-pour # 1 inspection report, please contact me at (972) 203-3003 or via e-mail at [customerservice@rshengineering.com](mailto:customerservice@rshengineering.com).

Regards,

Mathew Joseph, P.E. (License # 78695)  
President  
RSH Engineering, Inc.