

### Addendum Write Up

Addendum:	04							
Project:	14049 Dexter Township, Michigan New Fire Sub-Station No 2							
Issue Date:	October 6, 2014							
Addendum Reason:	Response to Bidders questions							
Drawings Issued:	None							
Description:	Final Addendum - Response to Bidders questions							
<u>Item</u> 1. Thank You	Description Thank you all for the obvious thoroughness with which you have reviewed the drawings and specifications. We trust that this will result in a smooth, efficient, and change order free construction process.							

#### Questions

1. General Requirements 01 00 00, 1.9 reference Testing and Inspection as "Allowances". Will there be a stipulated \$ Allowance for all bidders to include in their bids? Include a \$25,000 allowance in your bid. See Attached specification section.

- 2. Can the name of the individual and their department be provided for the value of the water and sewer inspection fees we are to include per section 00 73 13, 3.7.1? Contractor to provide own research on this item.
- 3. Addendum #2 indicates a revised completion date but the intended Notice to Proceed date is not indicated. Can this be provided?

It is anticipated that the Notice to Proceed will be issued on or before October 22, 2014.

4. Is the value of liquidated damages potentially due to the Owner for delays capped at \$15,000 as is the potential early completion?

It is not liquidated damages, rather a bonus/penalty clause. Penalty for delays is not capped.

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- 5. Is there any additional soil boring in the footprint of the building itself? The information provided is what is currently available.
- 6. Please confirm that any necessary additional excavation, backfill, concrete and soil manipulation will be provided on a change order basis if the soils at the indicated subgrade elevations on the drawings is inadequate. Even is substantial soil borings were available in the building pad area it is not possible for the bidders to quantify additional work.

# Consideration for changes in work scope will be evaluated on a case by case basis as per industry standards.

- 7. Is the Gravel Training Pad to be provided as part of the scope of work of this bid (Limits of Disturbance suggest not)? If so what is the section of the Pad and its elevations? Yes, the gravel training pad is within the scope of work. The section is 8" MDOT #23A Limestone base course compacted in two (2) lifts to 95% maximum density (ASTM D-15857) on top of 10" of exist subgrade or fill compacted to 95% maximum density (ASTM D-1557). Final grades shall match existing grades.
- 8. Plastic Laminate selections needed. (Pricing varies depending on color, finish, mfg, etc) For pricing, use Formica Brand, premium finish, etching series, color by Architect.
- 9. Solid surfacing in specifications (counter tops and sills) but not indicated anywhere on drawings. Casework tops are shown as p-lam. No window sills are shown at all. Toilet vanities do not clarify what materials is to be provided. Are these solid surfacing? If so a color or color group should be provided as it has a considerable affect on pricing. Kitchen counters and toilet vanities to be Corian "Private Collection", price group "D". Color by Architect.
- Chain link storage shown on mezzanine. Is there a spec for this material (post, rail, mesh diameters, gauges, thickness of galvanizing, etc)
  Refer to attached wire mesh partition specification section.
- 11. Specifications for lettering on front elevation of building? Font, thickness, manufacturer, steel or aluminum, etc...?

Font – Arial-bold, cast aluminum, powder coat or baked enamel, color by Architect.

- 12. Is a product line, color, finish available for the wall and floor tile in rooms 116 and 117? **Product lines are in specifications.** Color by Architect.
- 13. Specifications for acoustical ceilings conflict between notes on A-901 and spec section 09 51 13.

# Acoustic panels are to be 24"x24".

14. To where should the relocated light pole and mono pole / tornado siren shown on C110 and 200 be circuited? These do not appear on the electrical drawings.

Circuits to remain in Multi-Lakes Sewer and Water Authority. Tornado siren will not be re-located to the new mono-pole.

15. Pre-Engineered Metal Building:

General – Butler was used as the basis of design. However, other suppliers are acceptable on the understanding that the Contractor show that their proposed supplier is of equal quality and can provide the depicted design features, sure as the enclosed soffit deep overhangs and the enclosed soffit canopies. With regards to any and all questions regarding design parameters, it the responsibility of the pre-engineered building supplier to provided sealed engineering drawings that meet all local codes, guidelines, and standards, as well as meeting the need of an essential facility, such as a fire station. As part of your proposal, clearly state all design parameters that are being proposed.

A. Is PEMB to provide the canopy's? Yes, If not engineering and details needed. If so at a minimum the following should be provided.

Yes, provide as part of the PEMB building.

- 1. Width See attached sketch.
- 2. Length See attached sketch.
- 3. Eave height See attached sketch.
- 4. Roof slope See attached sketch.
- 5. Soffit panel required or exposed rafters required? Soffit panel. Downlights will be installed in soffit.
- B Any special deflections?
  - 1. Purlins? Standard is L/150.
  - 2. Frames? Standard is L/180.
  - 3. Girts? Standard is L/90.
  - 4. Side sway? Standard is H/60.
  - Special deflection for the horizontal wind girt that restrains the masonry? Please specify deflection for masonry
     See introductory statement
- C. Is the left endwall of building #1 to be designed for future expansion? The endwall on the Apparatus Room side is to be designed for a future expansion.
- D. Is the left endwall of building #2 to be auxiliary rafters?
  As we are not pre-engineered metal building designers, we do not understand the question.
- E. Can the mezzanine be provided as a PEMB assembly in lieu of that shown / engineered on S-210?
  - No.
- F. Is Nucor an acceptable metal building supplier.

Yes Nucor is acceptable. One caveat is that we have deep soffits. We used Butler as a basis of design because, from a design standpoint, they showed examples of this detail. We don't see that very often on pre-eng buildings, so you need to make sure that Nucor can accommodate that

- G. Eave height of the lower portion of the building? 12' clear to underside of soffit.
- H. Is there a clear height requirement for the lower portion of the building? Refer to item "G".

- I. Is the building supplier to supply horizontal wind support for the 9'-2" high masonry wall? Yes.
- 20. Misc metal fabrications not shown. Are these desired?
  - a. Bollards at doors? Size? Galvanized? PVC covers or painted? None
  - b. C-channel overhead door jambs? Yes
- 22. In section 081116 Aluminum thermal Flush Doors. 3.06 schedule lists the flush aluminum doors. This does not correspond with the door schedule on the plans. Which is correct? Door schedule is correct. Aluminum doors to be Special-Lite Inc., SL-15 Monumental Rail Door with 12" mid panel, SL-82 recessed pull panel, SL-11 continuous gear hinge, ¼" safety laminated glazing.
- 23. 12" & 15" Culvert pipe at two entrances calls for SCH. 80 Galvanized Pipe. SCH. 80 is usually PVC not Galvanized. Galvanized is referred to as CMP 12 Gage or 14 Gage. Please clarify. The culverts at the entrances are SCH. 100 galvanized steel pipes to accommodate low cover, and large point loads for full tankers.
- 24. Plan says all pipe 12" and larger must be RCP/4. So does this negate the above question and just bid SCH. 80 as RCP/4?

Note #1 on C-240 includes the text "U.N.O." which is a common acronym for *Unless Noted Otherwise*. The culverts have been noted with pipe call-outs on the plan.

- 25. Profile sheet C-300 shows all the 8" & 10" as C76-CLV. This pipe is not available. Please clarify. Use Wall B R.C.P. for these applications.
- 26. Water service line from well says 3" SCH. 80 with Mechanically Restraint Joints. PVC pipe is not a mechanically restraint pipe. Please clarify.

## Joints shall be chemically restrained by solvent welding.

27. Sanitary line from building to new grinder says 4.5" SCH 80? Should this be 4" PVC/40 pipe please clarify.

### No, the pipe call for the gravity sewer is correct.

28. Force main from grinder to existing 6" says 1.25" diameter SDR 21 PVC. Should this be 1.5" HDPE SDR9 CTS pipe? Please clarify the type of pipe the existing 6" is and what type of material for tap.

Pipe diameter shall be 1.25" to match the e-one discharge line. Material should be HDPE SDR9 per MLWSA. The existing force main is HDPE. The tap shall be made with a fusible saddle to the main to allow a hot tap. The curb stop assembly and check valve shall be e-one product number NC0193G01.

29. The detail for Domestic Water Heater DWH-1 Piping Diagram on P-900 shows a circulating pump (P-1) on a Hot Water Return pipe. The piping on P-200 does not show any hot water return pipe. Michigan Plumbing Code requires a recirculation pipe for any fixture that is beyond 50' from the hot water source. According to the scale, the furthest fixture is roughly 50' away. Are we to install the piping per P-200 or should the recirculation line be installed.

Install recirculation line per attached revised drawing P-200. Note revision to Domestic Water Heater DWH-1 Piping Diagram indentifying recirc pump as P-2 and including Make & Model number. Note also clarification of trench drain grating in detail on sheet P-900. 30. Please confirm extent / location of liner panels. (In Apparatus Bay it appears in section 1/A802 but not 1/A803. Finish schedule does not indicate it at all.)

#### Liner panel and insulation in entire Apparatus Room, similar to detail 1/A-802.

- Please confirm if paint is required on CMU walls in the Apparatus Bay on the north, south and west walls. (Not indicated on Finish Schedule) Yes, epoxy paint.
- 32. What depth, pipe size and hp of pump of the well should the bid be based upon? Typically theses are defined for bidding purposes with unit pricing provided for additional or lower depths.

### Basis of design and pricing is 100' deep, 5" diameter, and 1 ½ h.p. pump.

- 33. A 48" kitchen exhaust hood and exhauster is specified in section 10 99 90. Architectural plan shows a 36" hood. No ductwork indicated on mechanical plans. Please clarify.
  48" hood, vent to exterior.
- 35. Knox Box indicated on C200 but not architectural plans or specs. Who furnishes, installs? If furnished by GC please provided model #.

# Model 3202 with recessed mount kit.

36. Can CAD backgrounds of the grading plan C-220 be provided for the use by the earthwork contractors to do their quantity surveys? Risk would remain their responsibility for quantities.

#### To be determined.

37. Specifications call for all excess materials to be removed from the site. Is there room to berm the excess material on the remaining township or MLWSA property north of the proposed site improvements?

# Materials to be removed, for the purposes of bidding. Alternate options may be reviewed at a later date.

- 38. 6951 M2 Trench drain specified in 12" This series is not available in a 12" width as shown on sheet C-805. Please confirm desired width and if 12" please clarify grate type by model.
  This trench drain, and associated piping, will be removed from the project. Do not include in your bid.
- 39. The spec and drawings do not give us any information on what the pole is supposed to support, line sizes etc. Without this information we would not be able to make an offer. If this is for a fire station siren we would need a "cut sheet" showing the dimension so we can properly size the pole for that load plus the required wind and ice requirements for current Rev. G Standard.

#### The pole will initially support only the Fire Department communications antenna. In the future, it may carry the tornado siren, and other unknown devices.

40. Can you clarify if the 8" on-Site pavement is Reinforced, and if yes what type of reinforcing will be required (i.e. what gauge mesh)

### #4 bars @ 18" On Center Each Way, Half Depth

41. What is the depth of the Concrete Patio and it does it receive a plain Broom Finish? Same section as walk on C-801, 4" thickness. Yes, broom finish. 42. Prints show plastic laminate cabinets and laminate counters in kitchen. Spec book shows Merillat cabinets and solid surface tops?

Merillat cabinets in kitchen with Corian countertops.

- 43. Spec book calls for top in watch room 104. Nothing on drawing **No counter required in Watch Room.**
- 44. Spec book calls for vanity base in men's and women's locker room . Nothing shown on drawing.

### Vanities are required per the plan and specs.

- 45. No wood door spec. Are there any requirements or bid and qualify?
  Wood doors are 1 ¾" solid core flush interior doors, clear finish, Graham Mfg. Corp., Models GPD-PC or approved equal.
- 46. Door # 113 scheduled to be door type 5. There is no door type 5 shown on sheet A-901. Is this a typo?

### Door 113 to be type 2.

47. Could you please clarify the leveling course MDOT mix- 13C. Is it supposed to 3C instead of 13C?

### Yes, 3C is correct.

48. The specs say that the electrical system is High Leg Delta. The plans do not indicate that. Please clarify.

### The system is not high leg delta. It is a 208/120V, 3 phase, 4 wire system.

49. The specification windows calls for aluminum windows, but would you like a voluntary alternate cost for Pella Windows? We can offer either wood clad or fiberglass for less cost and much shorter lead times.

Bid per plans and specs for your base bid. Voluntary alternates are welcome and encouraged. Please clearly delineate your proposed alternate, as well as the reason for the alternate, and that the alternate meets all quality and design requirements.

The Bidder shall acknowledge receipt of this Addendum in the Bid Form. Information contained in this Addendum overrides the corresponding information in the Bid Package.

### End of Addendum 04

# SECTION 01020 CASH ALLOWANCES

#### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

#### 1.2 DESCRIPTION

- A. The following Cash Allowance shall be included within the Base Proposal, and the stipulated Contract Sum. The Cash Allowance shall be disbursed only upon written authorization of the Architect, and in accordance with the applicable articles of the Conditions of the Contract.
- B. Contractor shall purchase from suppliers or award subcontracts for items and materials covered by the Cash Allowance to such firms and for such sums as are approved by the Architect.
- C. The Cash Allowance for purchase of items and materials shall cover only the net cost of the items and materials delivered and unloaded at the site, including applicable taxes, excluding the Contractor's handling costs, labor and installation costs.
- D. <u>Cash Allowance does not include the Contractor's overhead, profit, fees, and other expenses.</u> The Contractor shall have included within his Base Proposal such amounts as he deems proper for said overhead, profit, fees, etc. for the Cash Allowance.

#### PART 2 PRODUCTS

#### 2.1 TESTING AND INSPECTION ALLOWANCE

#### Allowance

Allow the use of Twenty Five Thousand Dollars (\$25,000.00) for Testing and Inspection as specified in Section 01 00 00, General Requirements.

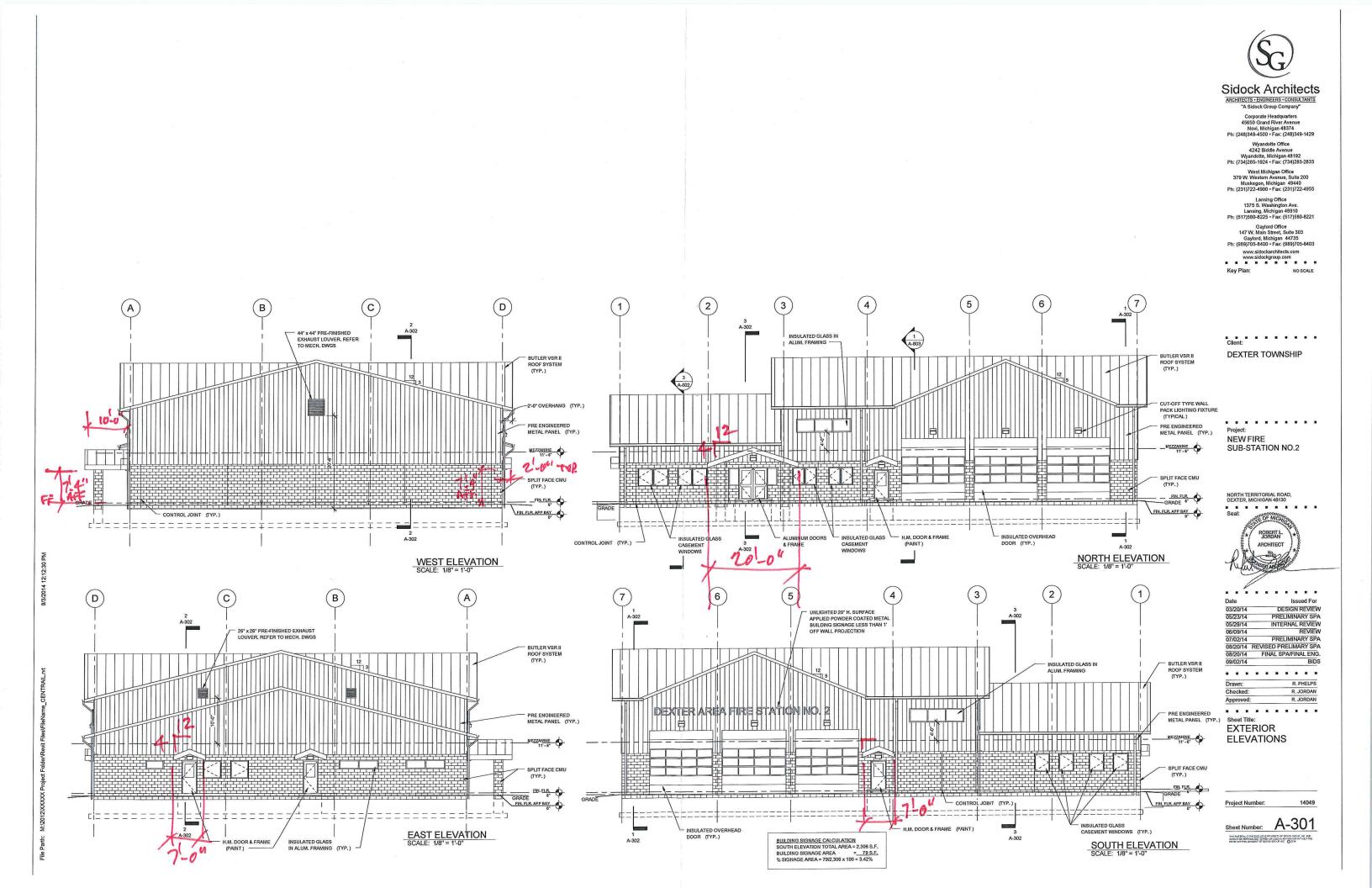
#### PART 3 EXECUTION

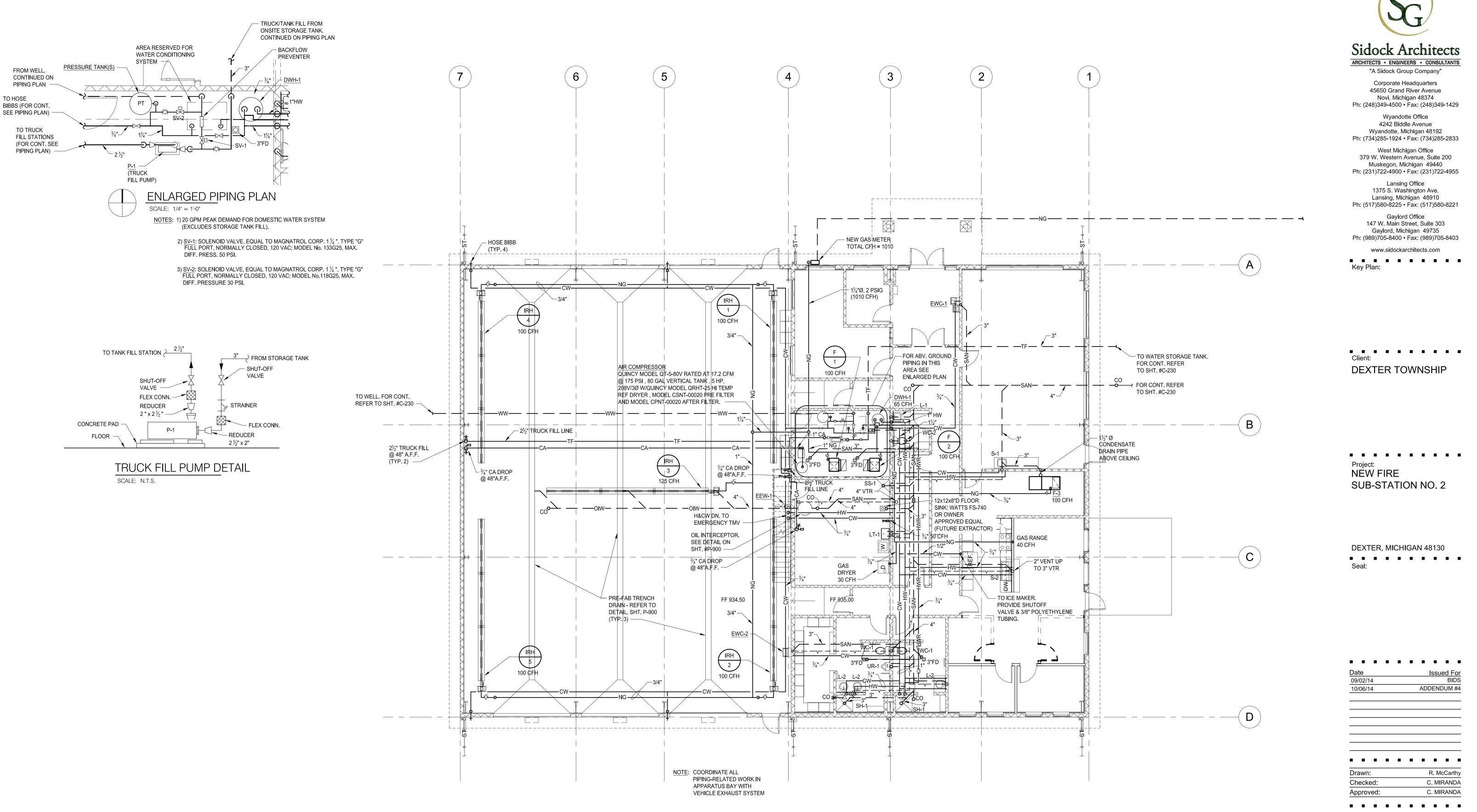
3.1 After all items and materials covered by the Cash Allowance have been purchased or awarded or negotiated with the Contractor, Contract Sum shall be adjusted by Bulletin and Change Order to reflect actual net cost paid by the Contractor. If actual cost of items is less than the Cash Allowance, the Contract Sum will be reduced by difference between actual cost and Contract; if actual cost is more than allowance, the Contract Sum shall be likewise increased.

#### END OF SECTION

### 2.10 WIRE MESH PARTITIONS

- A. Provide all labor, materials and equipment necessary to install wire mesh partitions at the Mezzanine area as shown and specified as follows:
  - 1. Furnish and install wire mesh partitions in locations shown, extended continuous between walls and from floor to ceiling construction above. Partitions shall consist of a series of equal width vertical framed panels, not over 5 ft. wide, filled with wire mesh. Provide swing door in partition of size shown.
  - 2. Fabricate partition panel frames with 1-1/2" x 3/4" x 1/8" steel channels at perimeter, with bottom member 2" above floor. Frame door opening with matching channels closed with 1-1/2" x 1/8" welded steel plate, providing a full width horizontal at head, and verticals from head to floor with full height 1-5/8" x 7/8" x 1/8" angle stop at lock jamb. Fill panels, except door opening, with #10 gauge (W&M) steel wire woven into a 1-1/2" diamond mesh, crimped into holes in channel frames.
  - 3. Stiffen panels horizontally with two (2) 1" x 1/8" x 1/8" steel channels bolted together thru the mesh, tenoned into the side channels. Tenon or weld all framing members rigidly together. Provide metal shoes to receive bottom of panel verticals. Erect the partitions by bolting the panels together, and bolting the perimeter framing members to adjacent construction, all on 18" centers, and bolting the floor shoes to the floor.
  - 4. Provide a steel plate lock to receive a lockset.
  - 5. Shop finish all parts with not less than two (2) coats of baked-on enamel, black.

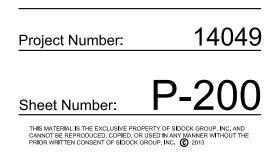


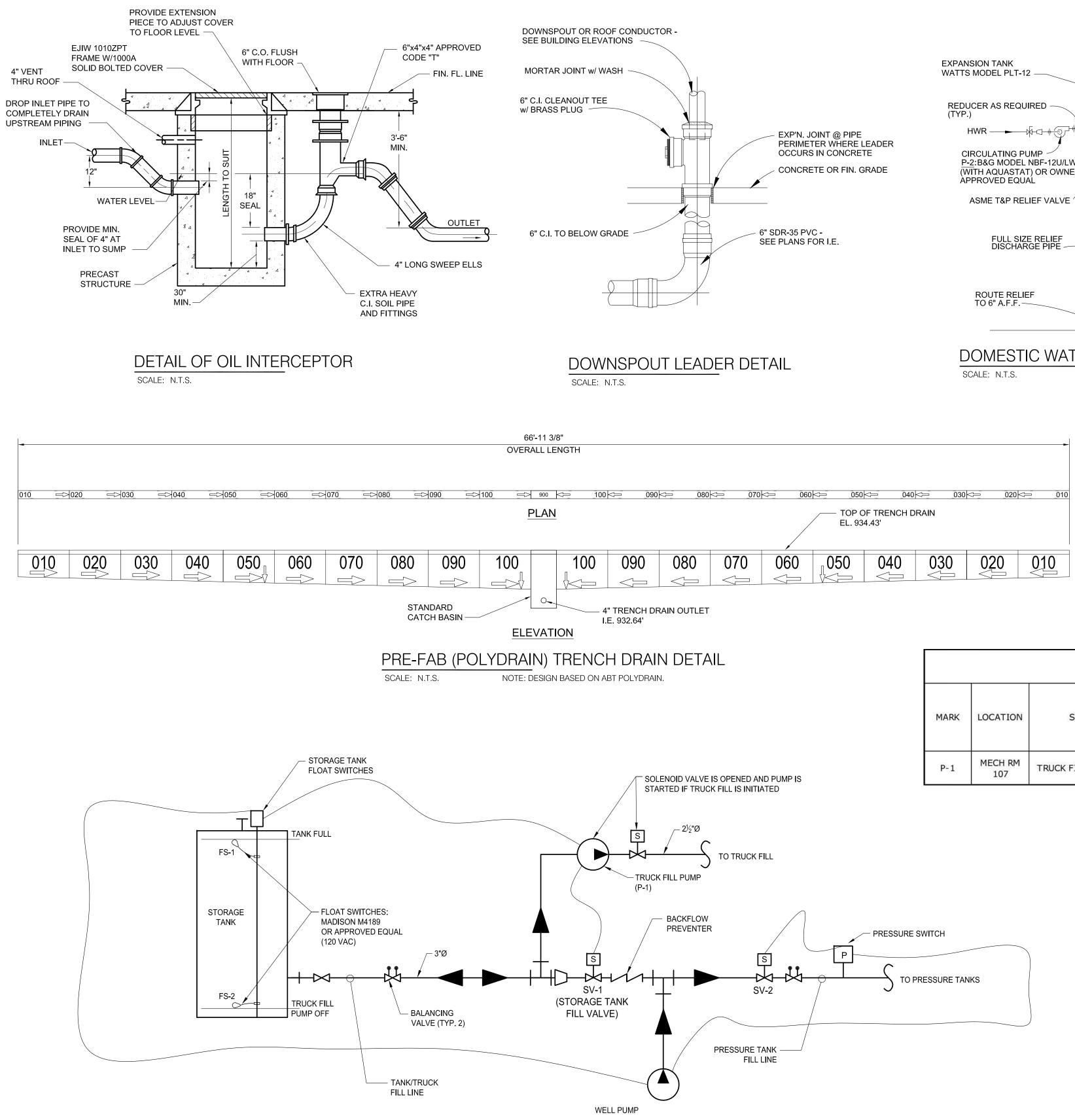




PIPING PLAN SCALE: 1/8" = 1'-0"

Sheet Title: **PIPING PLAN** 

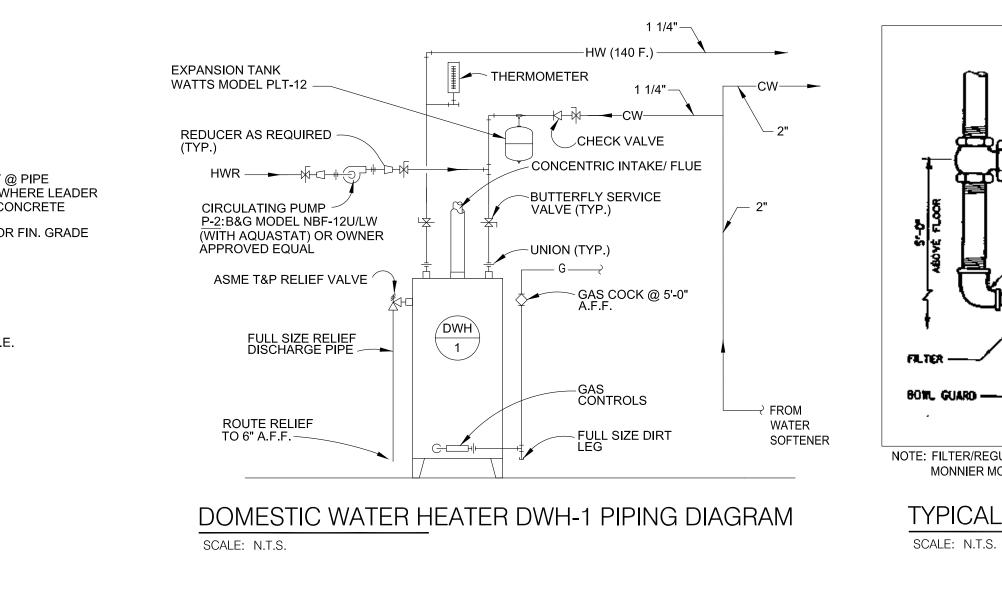




# DOMESTIC WATER & STORAGE TANK/TRUCK FILL CONTROL SCHEMATIC SCALE: N.T.S. NOTE: DESIGN BASED ON ABT POLYDRAIN.

# MODES OF OPERATION:

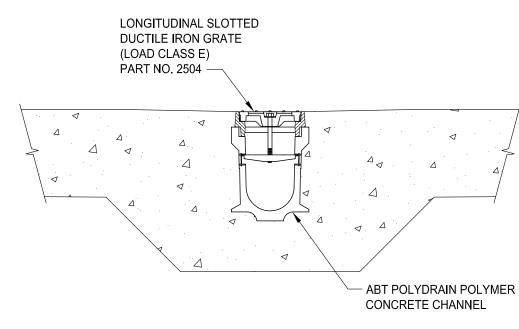
- 1) PRESSURE TANK WITHIN DESIGN PRESSURE SETPOINTS AND STORAGE TANK FULL: SOLENOID VALVES SV-1 AND SV-2 BOTH CLOSED. WELL PUMP AND TRUCK FILL PUMP (P-1) DEENERGIZED.
- 2) PRESSURE TANK AT OR BELOW CUT-IN PRESSURE AND STORAGE TANK FULL: SV-2 OPEN AND SV-1 CLOSED. WELL PUMP ENERGIZED, P-1 DEENERGIZED.
- 3) PRESSURE TANK WITHIN DESIGN PRESSURE SETPOINTS AND STORAGE TANK LESS THAN FULL (REFER TO CIVIL DRAWINGS): SV-1 IS OPEN AND SV-2 IS CLOSED. WELL PUMP ENERGIZED, P-1 DEENERGIZED.
- 4) PRESSURE TANK AT OR BELOW CUT-IN PRESSURE AND STORAGE TANK LESS THAN FULL: SV-2 OPEN AND SV-1 OPEN. WELL PUMP ENERGIZED, P-1 DEENERGIZED.
- 5) IN MODES 1 THRU 4, ABOVE, WITH STORAGE TANK LEVEL WITHIN RANGE OF FLOAT SWITCHES (REFER TO CIVIL DRAWINGS): ON ENERGIZATION OF TRUCK FILL PUMP (P-1), SOLENOID VALVE SV-1 CLOSES. WELL PUMP SHALL ENERGIZE, AS REQUIRED, FOR DOMESTIC WATER DEMAND, ONLY.



	GAS FIRED DOMESTIC WATER HEATER									
	OVOTEM				CAPACITIES					
TAG	SYSTEM SERVED	LOCATION	MANUFACTURER AND MODEL NUMBER	GALLON		TEMP. RISE	BTU/HR INPUT	NOTES/ACCESSORIES		
DWH-1	DOMESTIC WATER	MECHANICAL ROOM #107	BRADFORD WHITE 65T-65FB-3N	70 GPH	65	90 deg F	65,000	ASME T&P RELIEF VALVE		

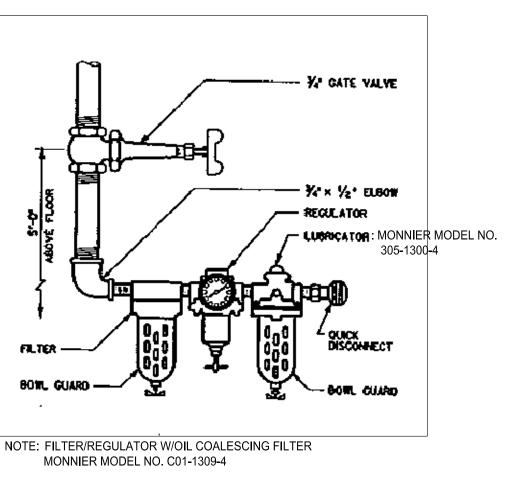
# PUMP SCHEDULE

	FOMF SCILDOLL															
MADI			TYPE	CI	IRCULATING	G FLUID				ELECTRI	CAL		D	ESIGN BASI	S	DEMARKE
MARK	LOCATION	SERVICE	TYPE -	FLUID	FLOW (GPM)	HEAD (FT)	TEMP ( <sup>0</sup> F)	HP	PHASE	VOLT	MAX RPM	SPEED CONTROL	MAKE	MODEL	PUMP SIZE	REMARKS
P-1	MECH RM 107	TRUCK FILL RESERVOIR	BASE MOUNTED END SUCTION	WATER	120	25	50	1.5	3	208	1750	CONSTANT SPEED	B&G	SERIES E-1532	2AD	REFER TO CONTROL DIAGRAMS

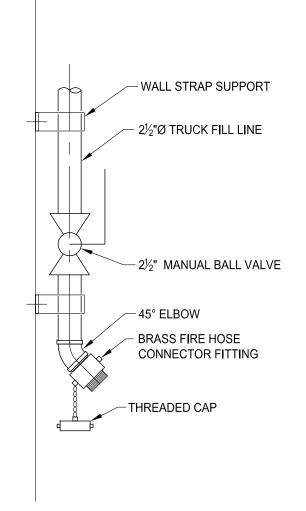


TYPICAL TRENCH DRAIN CROSS SECTION NOTE: DESIGN BASED ON ABT POLYDRAIN. SCALE NTS









TRUCK FILL STATION DETAIL SCALE: N.T.S.



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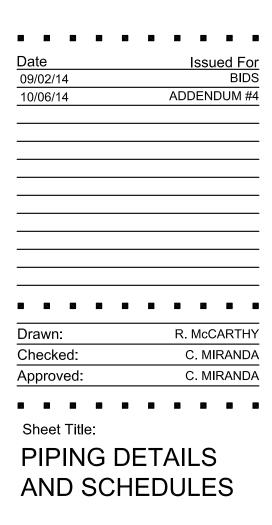
. . . . . . . . . . Key Plan: NO SCALE

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SUB-STATION NO. 2									

Se	eal:				



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Sheet Number:	P-900
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