

# COMMUNITY WATER FACILITY

Gravity Flow Water Supply Scheme, Buner District, Khyber Pakhtunkhwa

Engineering Drawing Set — Storage Tank, Ancillary Structures & Distribution Network

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## Bill of Quantities — Summary

| Description                                                      | Unit | Qty (per facility) |
|------------------------------------------------------------------|------|--------------------|
| Excavation in foundation (metamorphic rock)                      | Cft  | 571                |
| PCC (1:4:8) - blinding                                           | Cft  | 44.12              |
| RCC (1:2:4) - base slab / structural members                     | Cft  | 35.62              |
| RCC (1:2:4) - tank long walls (2 nos × 8.0'×6.0'×0.75')          | Cft  | 72.00              |
| RCC (1:2:4) - tank short walls (2 nos × 7.5'×6.0'×0.75')         | Cft  | 67.50              |
| RCC (1:2:4) - Animal Watering Pond (5'×3'×2')                    | Cft  | 36.00              |
| RCC (1:2:4) - roof slab (9.5'×7.5'×0.5') incl. manhole deduction | Cft  | 33.62              |
| HYSD Grade-60 reinforcement (2.5% of RCC volume)                 | Kg   | 1,360              |
| Porcelain wall tile 24"×24" (8'×6')                              | Sft  | 48                 |
| HDPE Pipe 32mm PN-16 (transmission + distribution)               | Rft  | 6,000              |
| Water taps (brass quarter-turn bib cocks)                        | Nos  | 5                  |
| Gate valves / air release / washout valves & fittings            | LS   | 1                  |
| Spring box / intake structure (stone masonry + RCC cover)        | Nos  | 1                  |
| Integral crystalline waterproofing - internal (floor + 4 walls)  | Sft  | 216                |
| 3-coat weather shield paint - external (walls + roof)            | Sft  | 256                |

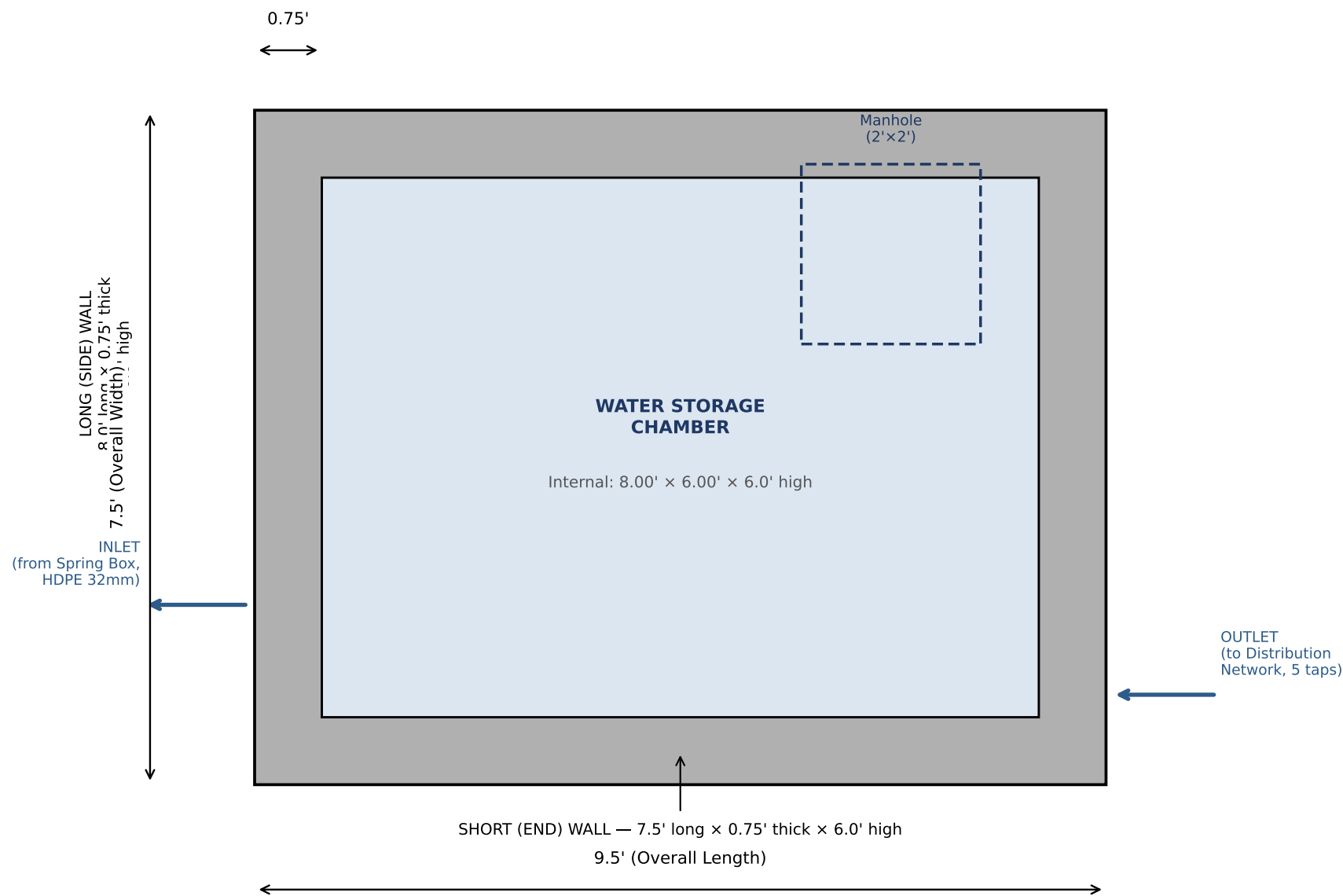
### READ FOUNDATION

**Project:**  
Rebuilding Hope — Rehabilitation of  
Community Water Facility (Buner)

**Scheme**Gravity Flow Water Supply Scheme

**Drawing Title:**  
**Title Sheet / General Notes**

PLAN VIEW — TOP OF ROOF SLAB



Notes: 1) All dimensions in feet unless noted. 2) Wall thickness 0.75' (9") throughout.  
3) Manhole location indicative — confirm with site engineer. 4) Inlet/outlet pipe positions schematic.



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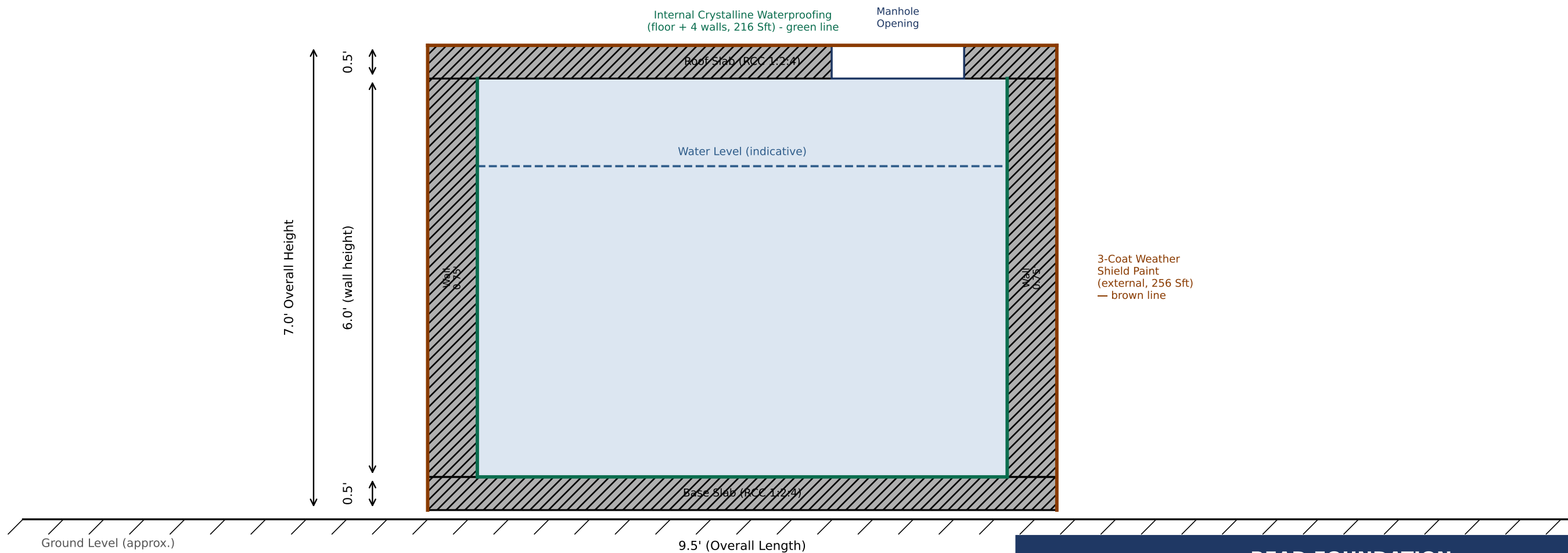
**Project:**  
Rebuilding Hope — Rehabilitation of  
Community Water Facility (Buner)  
**Scheme**Gravity Flow Water Supply Scheme  
**Drawing Title:**  
**Plan View (Top View) of Storage Tank**

Dwg No: WF-BUNER-01  
Scale: NOT TO SCALE

Drawn By: READ Foundation  
Date: July 2026

**Sheet 2 of 6**  
Rev: 0

SECTIONAL ELEVATION — SECTION A-A



Notes: 1) Section cut through the short (end) walls, looking along the tank's length.  
2) Water level shown indicative only - actual operating level per hydraulic design.  
3) All dimensions in feet. Wall/slab reinforcement per structural drawing (HYS D Grade-60, 2.5% of RCC volume).

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**Project:**  
Rebuilding Hope — Rehabilitation of  
Community Water Facility (Buner)

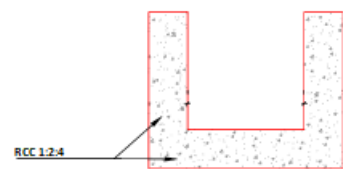
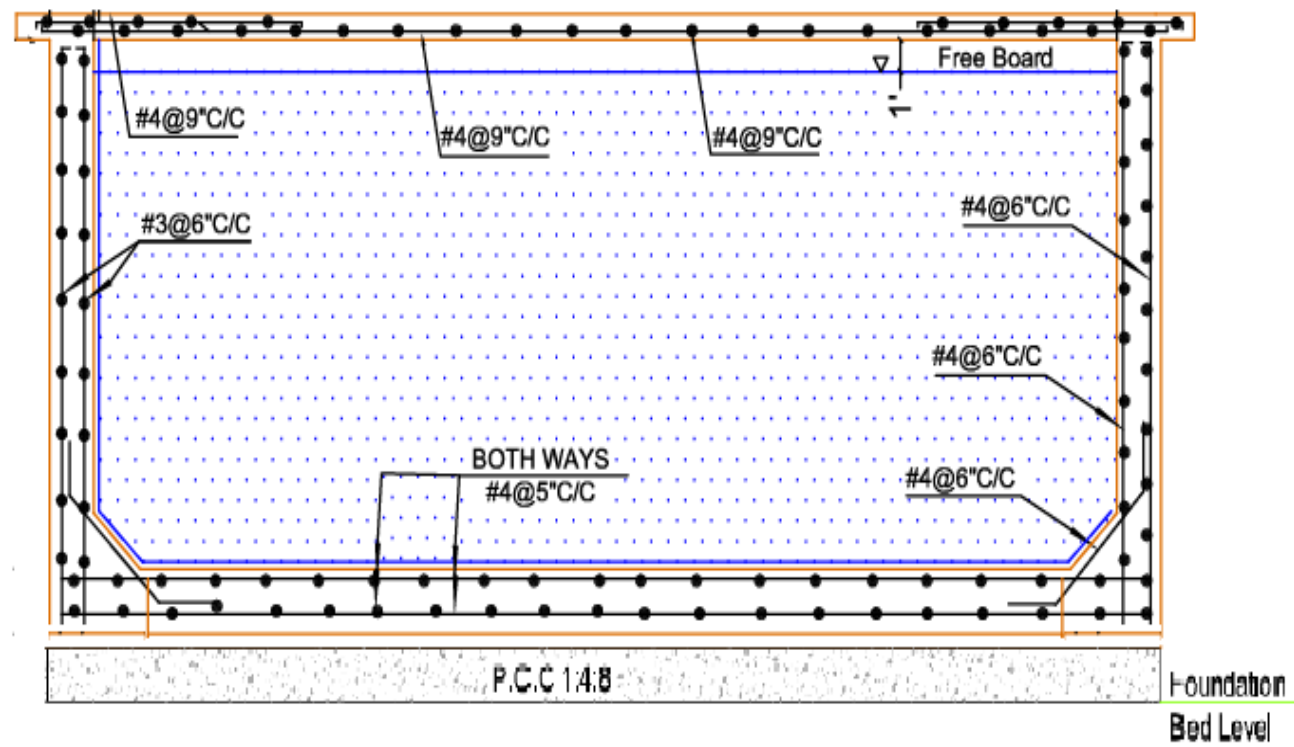
**Scheme**Gravity Flow Water Supply Scheme

**Drawing Title:**  
**Sectional Elevation (Section A-A) of Storage Tank**

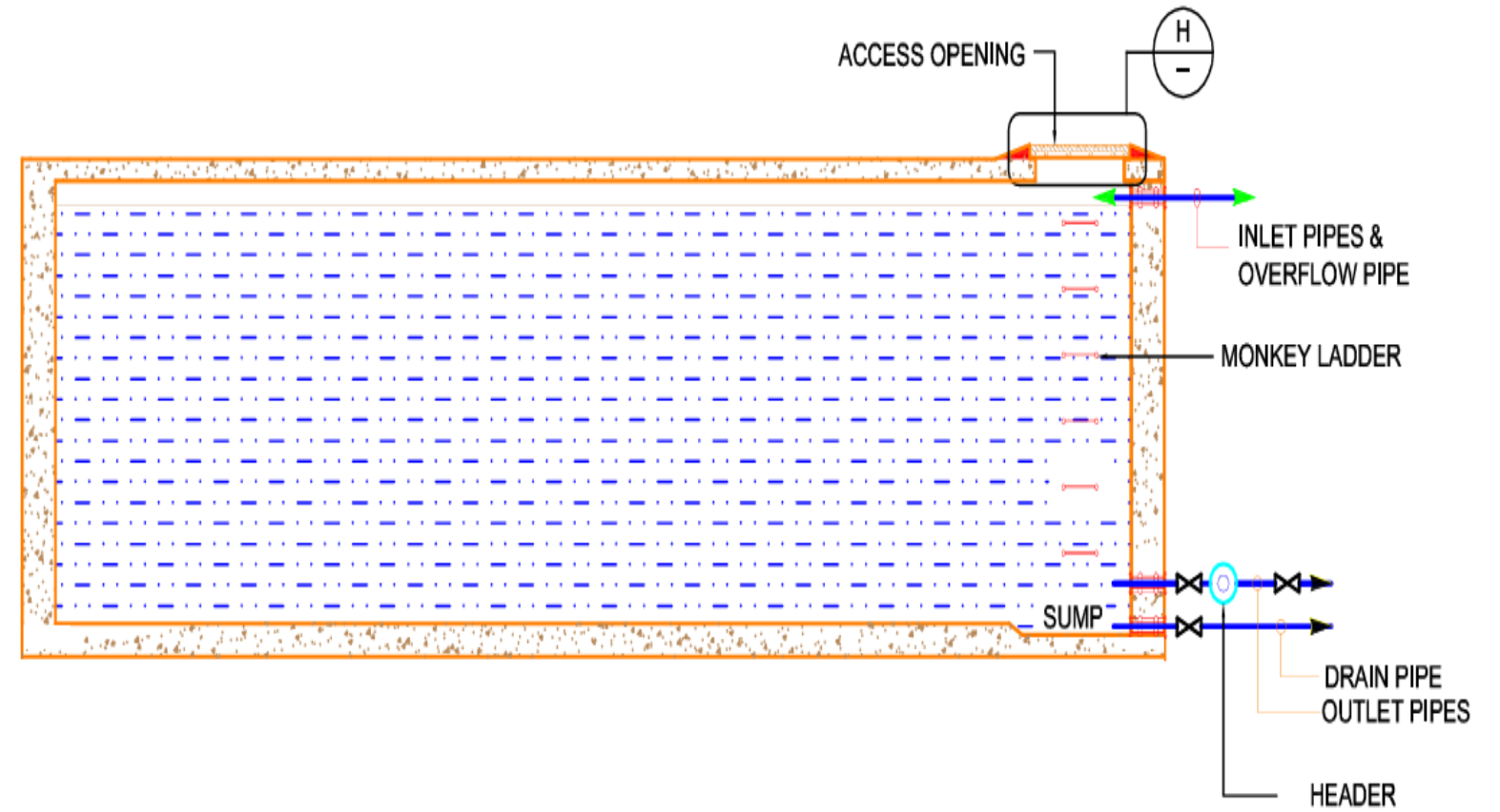
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Scale: NOT TO SCALE

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**Sheet 3 of 6**  
Rev: 0

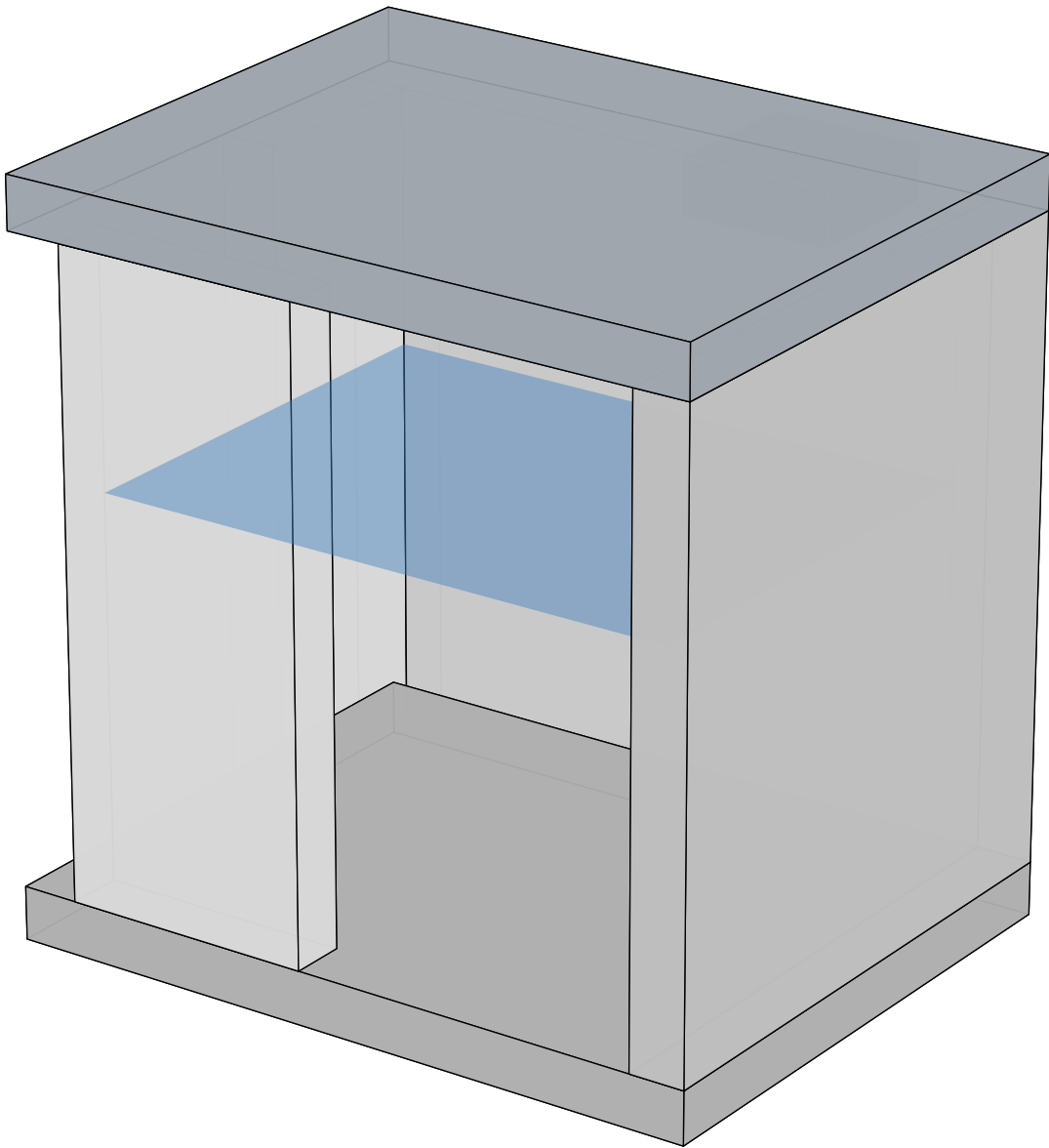


**Animal Watering Pond**



**WATER TANK**

3D ISOMETRIC VIEW — CUTAWAY (1 QUARTER REMOVED)



LEGEND

- Base Slab (RCC 1:2:4)
- Tank Walls (RCC 1:2:4, 0.75' thick)
- Internal Chamber Floor
- Water Level (indicative)
- Roof Slab (RCC 1:2:4)
- Manhole Opening (2'×2')

Overall Envelope: 9.5' (L) × 7.5' (W) × 7.0' (H) | Wall thickness: 0.75' |

Cutaway shows: base slab, internal water storage chamber, indicative water level, roof slab with manhole opening

READ FOUNDATION

Rebuilding Hope — Rehabilitation of Community Water Facility (Buner)

Gravity Flow Water Supply Scheme

3D Isometric View of Storage Tank (Cutaway)

Dwg No: WF-BUNER-01

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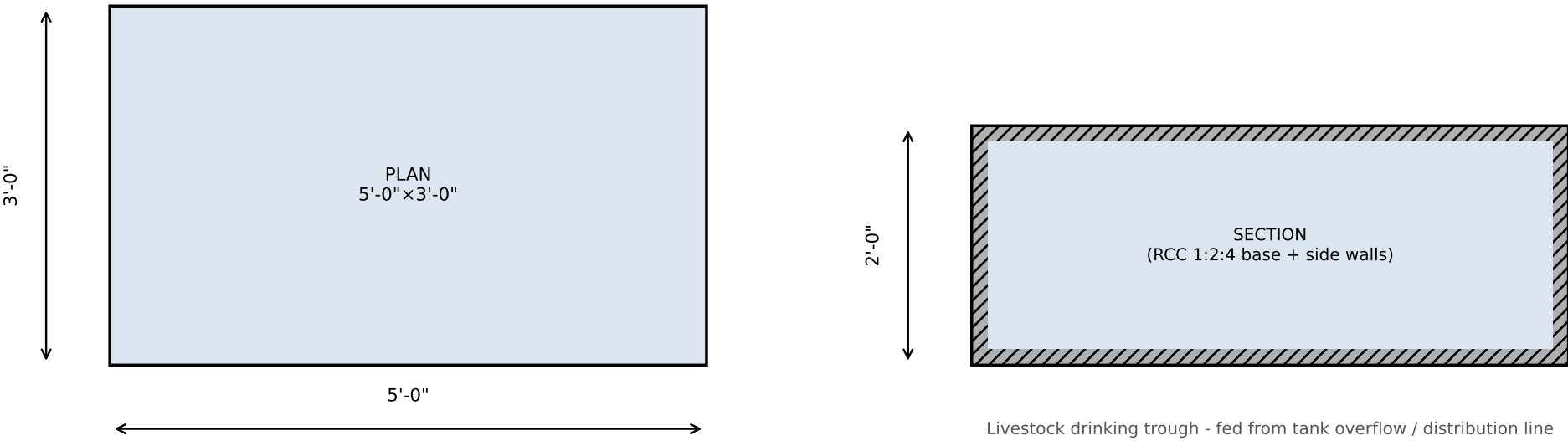
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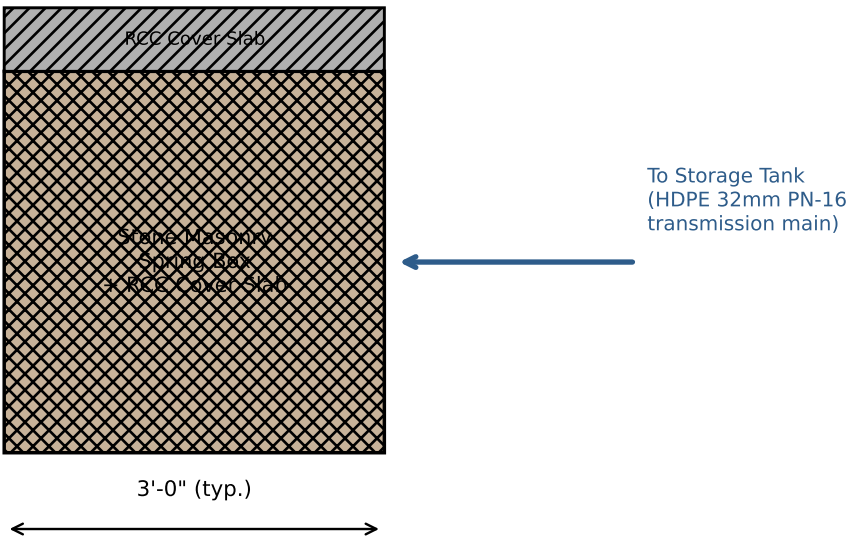
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ANCILLARY STRUCTURES

ANIMAL WATERING POND — Plan & Section



SPRING BOX / INTAKE STRUCTURE — Schematic



Note: Spring box dimensions shall be confirmed / not explicitly dimensioned in the BOQ. Confirm structure with the survey / hydro-geological assessment before construction.

READ FOUNDATION

**Project:**  
Rebuilding Hope — Rehabilitation of  
Community Water Facility (Buner)

**Scheme**Gravity Flow Water Supply Scheme

**Drawing Title:**  
**Ancillary Structures: Animal Watering Pond & Spring**

Dwg No: WF-BUNER-01  
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DISTRIBUTION NETWORK — SCHEMATIC (NOT TO SCALE)

