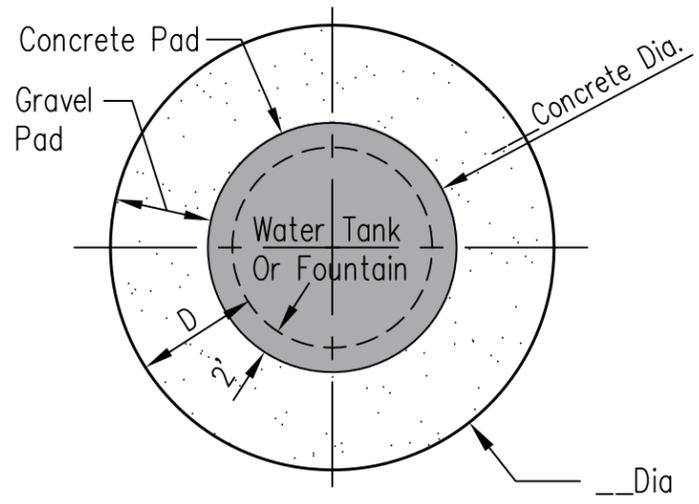
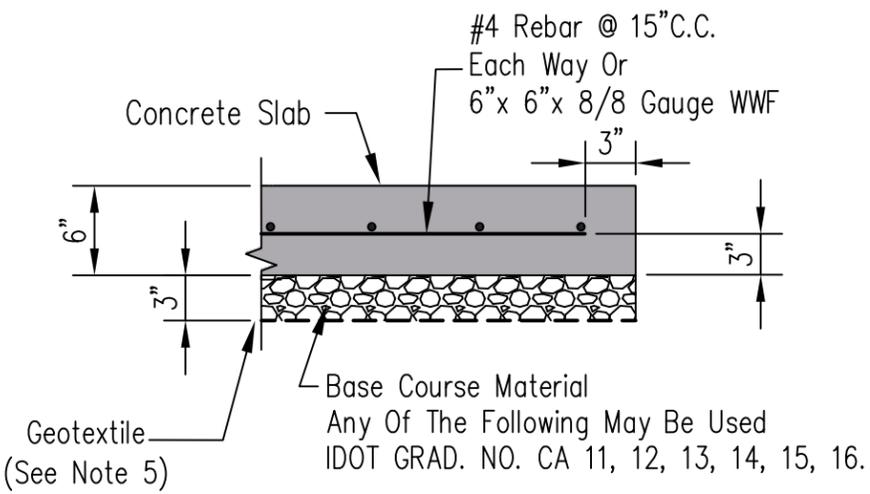


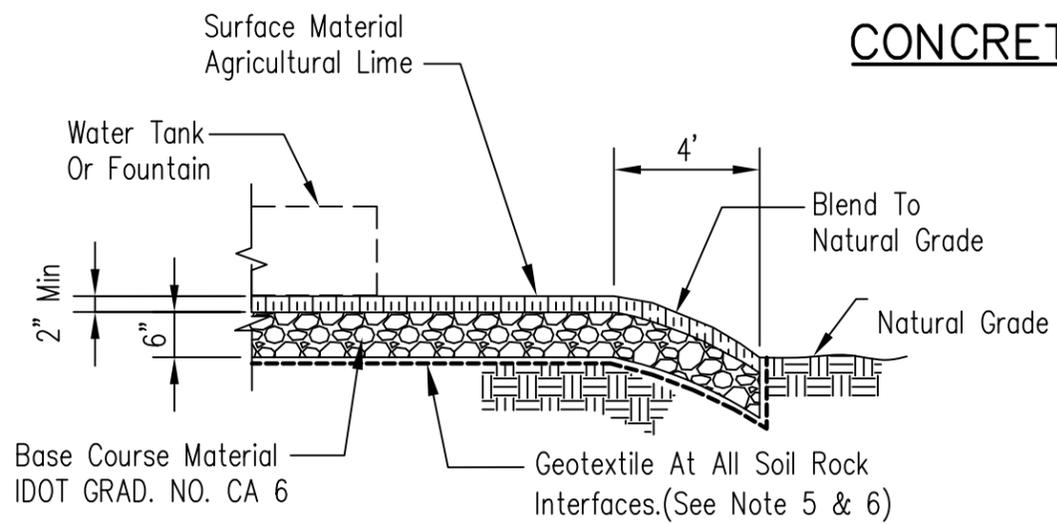
RETANGULAR PAD



CIRCULAR PAD



CONCRETE PAD TYPICAL SECTION



GRAVEL PAD TYPICAL SECTION

IDOT = Illinois Department Of Transportation

NOTES:

- The base course and surface aggregate materials shall be compacted with the track or tire of the equipment used for construction to ensure a smooth uniform foundation without depressions or irregularities.
- Concrete shall be designed to provide a 28-day compressive strength of 4000 psi. All concrete shall be 6 inches thick with 2 1/2 inches of top cover over steel tied securely in place. Maintain 3 inch concrete cover around steel at sides. Place concrete on top of 3 inch layer of coarse gravel or crushed rock. Place Geotextile between all rock and soil interface.
- Steel in the floor shall be #4 steel reinforcing bars both ways, At 15" on center and bar laps shall be a minimum of 15 inches. Alternatively use 6"x 6" 8/8 gauge welded wire fabric, with the sides and ends of each mat to lap 6" onto next mat.
- Minimum distance "D" from water tank or fountain to edge of tank pad is 10 feet for cattle and 5 feet for smaller animals such as sheep or goats.
- Geotextile (non-woven, needle punched) Minimum criteria:
 Grab tensile strength (lb) ASTM D4632 _____ 202
 Elongation at failure (%) ASTM D 4632 _____ ≥ 50
 Trapezoidal tear strength (lb) ASTM D 4533 _____ 79
 Puncture strength (lb) ASTM D 6241 _____ 433
 Ultraviolet light (% retained strength) ASTM D 4355 _____
 _____ min 50
 Apparent opening size (AOS) ASTM D 4751 _____
 _____ max 0.22 mm (US sieve size 70)
 Permittivity sec⁻¹ ASTM D 4491 _____ min 0.70
- Any geotextile splices shall overlap a minimum of 18 inches.

BILL OF MATERIALS

Tank									
Pad Length L	Ft.								
Pad Width W	Ft.								
Circular Pad Outside Diameter	Ft.								
Access Space D	Ft.								
Surface Material Agricultural Lime	Tons								
Base Course IDOT CA 6 Under Aggregate	Tons								
Geotextile	Sq.Yd.								
Concrete	Cu.Yd.								
Base Course Under Concrete	Cu.Yd.								
#4 Rebar	Lbs.								
Welded Wire Fabric	Sq. Ft.								

Date _____
 Designed _____
 Drawn M. QUINONES 11/1/15
 Checked _____
 Approved _____

**CONCRETE/GRAVEL
HEAVY USE AREA TANK PAD**

United States
 Department of
 Agriculture
USDA
 Natural Resources
 Conservation Service

File No.
IL-ENG-873
 Drawing Set
 Page 1 of 1
 Sheet of

Landowner	Location
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