### **GENERAL NOTES**

# Live Loading:

HS 20-44 [MS 18]

Reinforcement (Grade 40 [Grade 300]) (Cast-in-place):

FY= 40.000 PSI [275.8 MPa]

FS= 20,000 PSI [137.9 MPa]

Concrete (Class B) (Cast-in-place base):

F'c= 3250 psi [22.4 MPa]

Fc= 1300 psi [9.0 MPa]

# Manhole Rings, Covers and Collars:

Adjust manhole rings, covers and set collars to ensure they are flush with surrounding pavement.

#### Pipe Inlets and Outlets:

Ensure a minimum inside dimension of the support wall between cutouts in the manhole riser of not less than 1ft [305].

#### Steps:

For manholes with a depth in excess of 3 ft-6 in [1065], install either extruded aluminum or preformed rubber coated bar steps at a spacing from 1ft [305] to 1ft-4 in [405] o.c.

### Manhole Types:

Type A: Precast circular reinforced concrete cone and riser section. Cone section to be eccentric for easy access. Provide base for the manhole as approved by the engineer.

Type B: Precast reinforced concrete circular cone and riser section. Cone section to be concentric for better load distribution. Provide base for the manhole as approved by the engineer.

Type C: Precast circular reinforced slab cover and rise section. Provide base for the manhole as approved by the engineer.

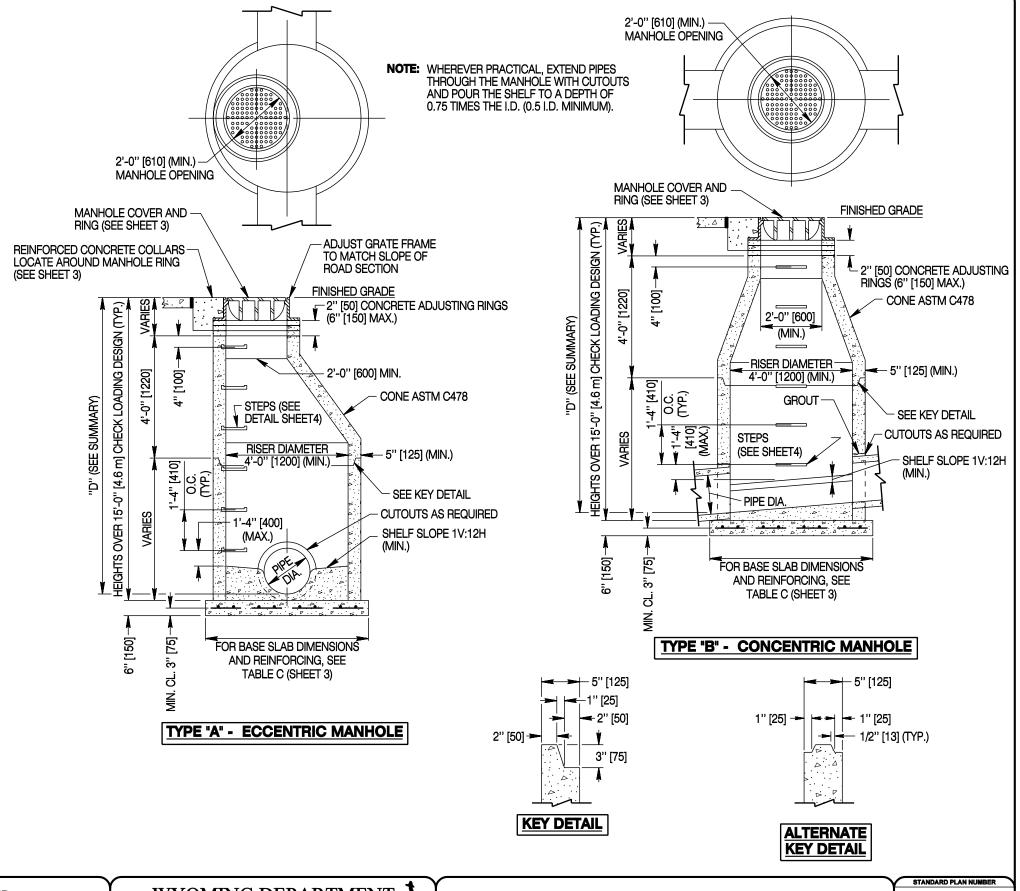
Type D: Combination of Type B and Type C which is a circular reinforced concrete slab cover, short cone and riser section. Provide base for the manhole as approved by the engineer.

Type E: Sanitary sewer manhole and is a cast in place monolithic concrete base. Set precast riser section before concrete sets - achieve water tight connection.

Type F: Precast reinforced concrete tee section for when the trunk line is directly under the manhole location. Top cone section may be eccentric for easy access.

## Metric Dimensions:

Metric pipe dimensions are based on 1 in = 25 mm. Industry standards at the time of this contract may dictate the exact conversion of 1 in = 25.4 mm. Adjust metric dimensions shown herein accordingly.



esigned by: WRR rawn by: GLD necked by: RRC Previous Dwg. No. 625-03A

**GENERAL REQUIREMENTS AND** TYPE A AND B MANHOLE DETAILS WYOMING DEPARTMENT OF **TRANSPORTATION** 

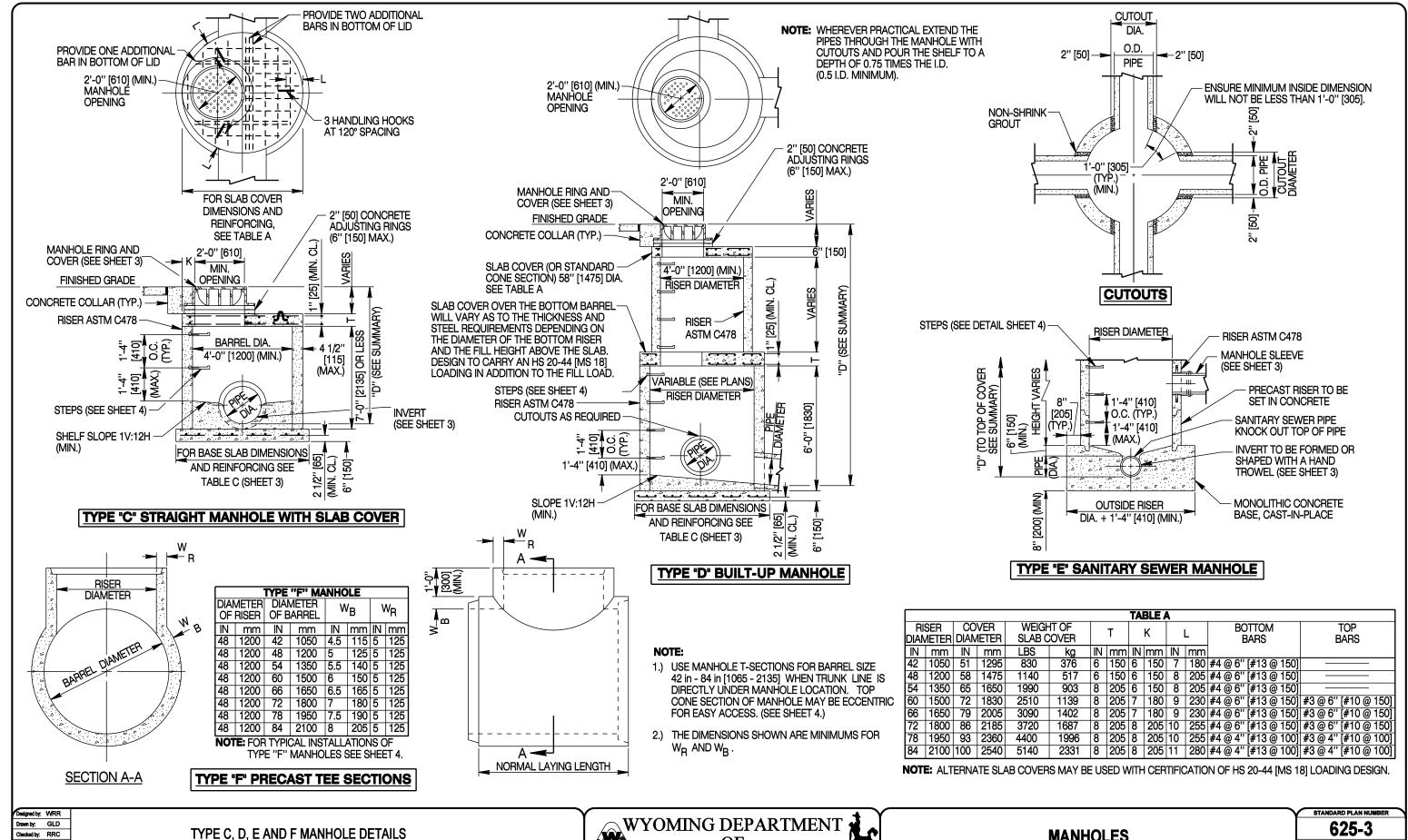
**MANHOLES** 

STANDARD PLAN

625-3

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Note: Units shown in brackets [] are metric and are in millimeters (mm) unless other units are shown



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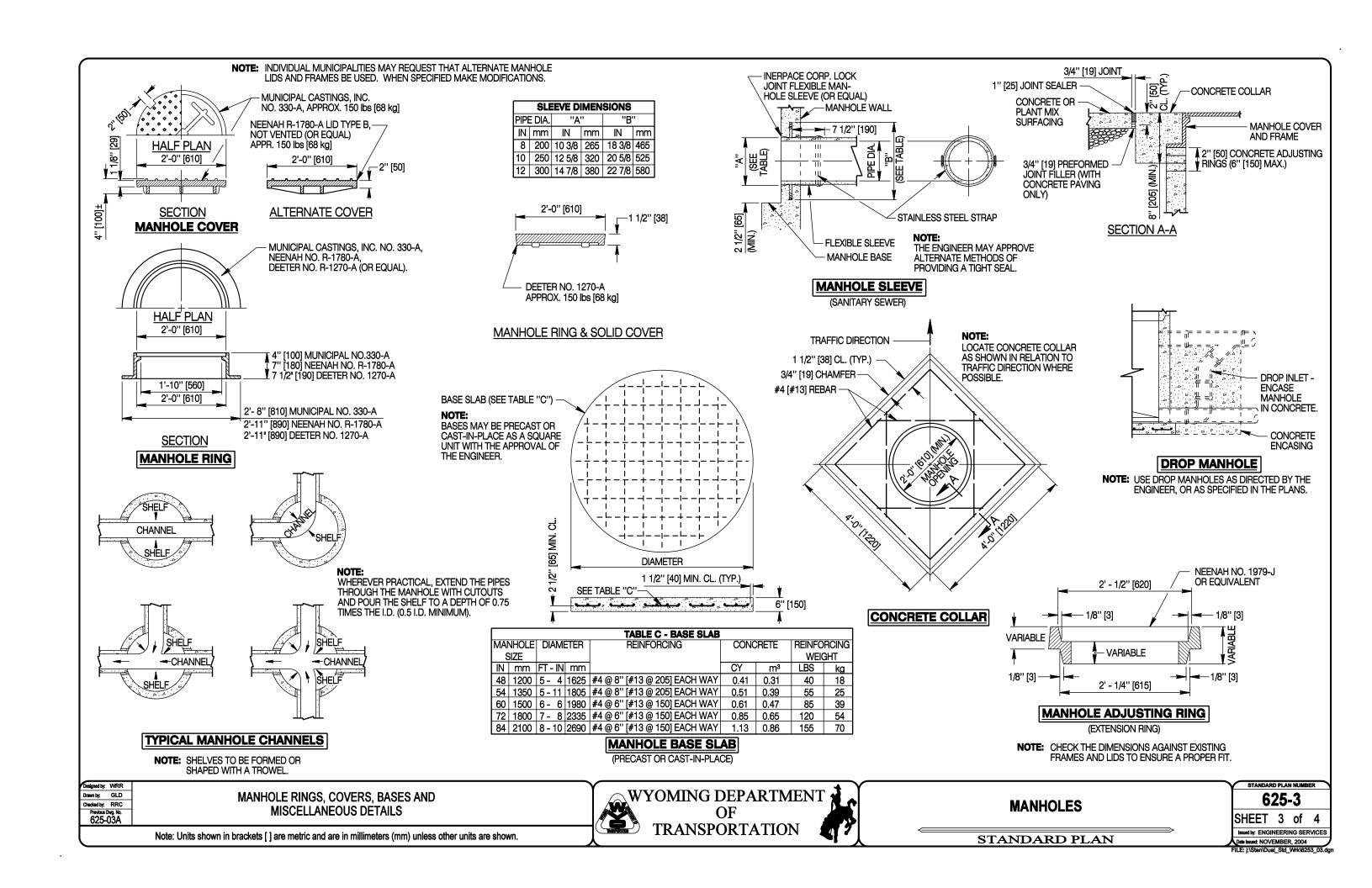
OF **TRANSPORTATION** 

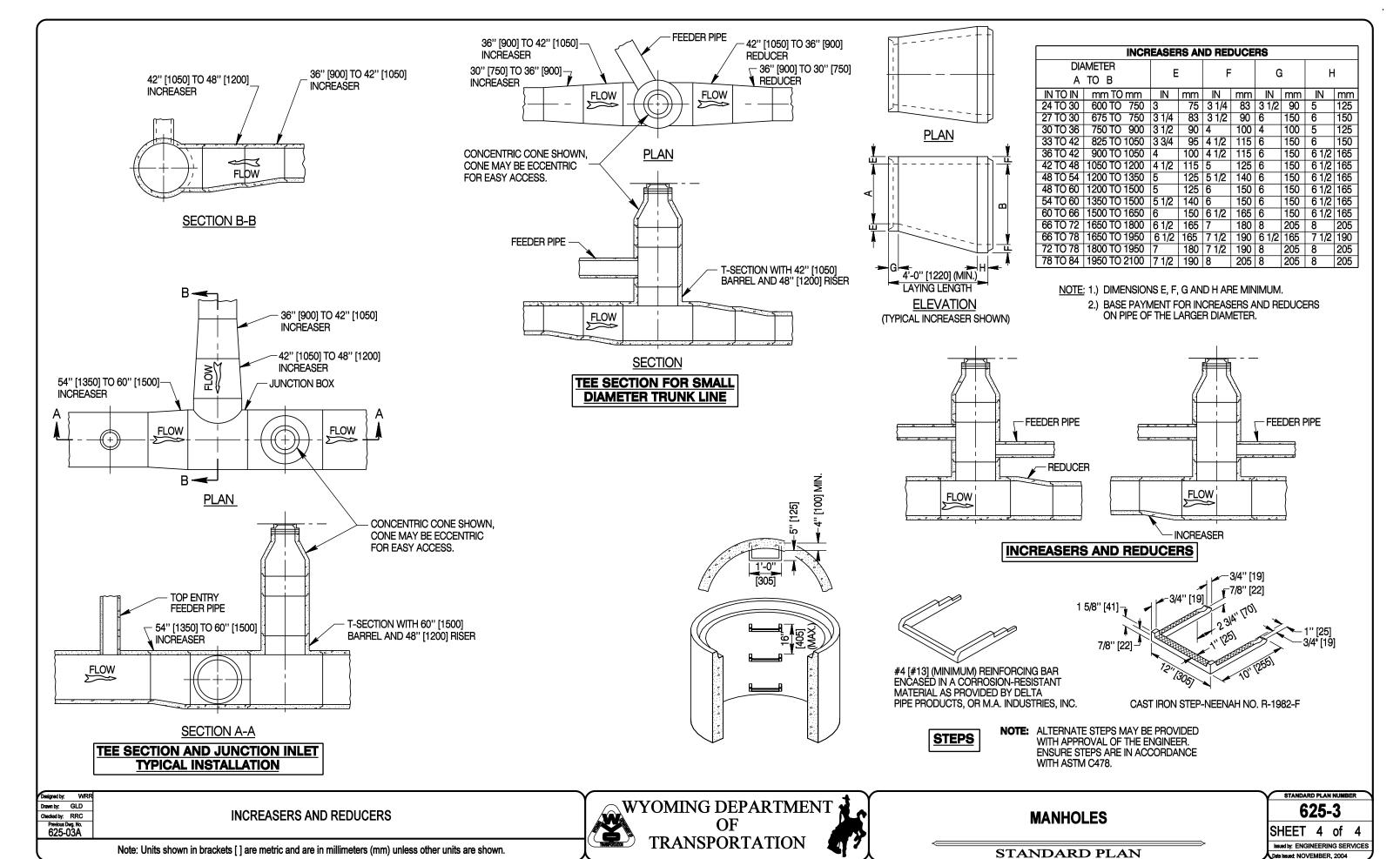
**MANHOLES** 

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STANDARD PLAN

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