DIVISION 33 - UTILITIES

33 00 00 - Utilities

PART 1: GENERAL

1.01 SCOPE OF STANDARD

- A. Texas State University recognizes that project conditions and requirements vary, thus precluding the absolute adherence to the items identified herein in all cases. However, unless there is adequate written justification, it is expected that these guidelines will govern the design and specifications for Texas State University projects.
- B. All utility connections to the various campus utility distribution systems shall be accurately located by dimensions or coordinates. Depth of piping shall be shown and inverts must be shown at manholes and other critical points.
- C. Record documents are the basis for the University's BIM to FM Program. The BIM program implements the required Construction Operations Building information exchange (COBie). COBie is the required process of data collection by the architect/engineer and the contractor to handoff a data file at project closeout that is consumable by the University's CMMS or CAFM software.
- D. All site utilities shall be included as part of the BIM(s). All site utilities shall be shown accurately in terms of size, depth and location.
- E. Verification of design to ensure the sanitary sewer system is not cross connected to stormwater, rainwater collection or guttering inside and outside of building

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 31 00 00 Earth Work
- B. Section 22 00 00 Plumbing
- C. Section 26 00 00 Electrical

PART 2: SCOPE OF WORK

2.01 SANITARY SEWER UTILITIES

- A. Refer to Section 22 00 00 Plumbing General Systems Design
- 2.02 WATER UTILITIES
 - A. Refer to Section 22 00 00 Plumbing General Systems Design

2.03 STORM DRAINAGE UTILITIES

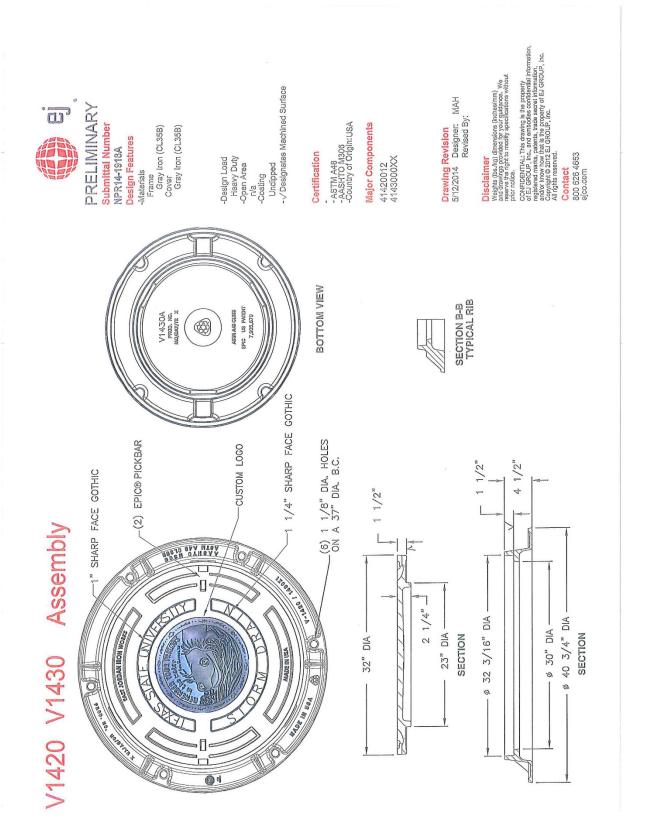
- A. Refer to Sections 22 00 00 Plumbing and Section 31 00 00 Earth Work
- 2.04 ELECTRICAL DISTRIBUTION (Underground Ductbanks)
 - A. Refer to Section 26 00 00 Electrical

2.05 MANHOLE COVERS

- A. Texas State University has standardized utility manhole covers to be used on all underground utility access on campus. All new manhole cover installations must be heavy duty gray iron as manufactured by East Jordon Iron Work (EJ) or approved equal. Standard thickness is used for pedestrian and non-vehicular application. For manholes in vehicular traffic roadways and drives a DOT rated thickness is required.
- B. Locking system consisting of security driven bolt and spring loaded pistons required.
- C. Refer to the attached specification sheet for MANHOLE COVER MARKING STANDARDS.

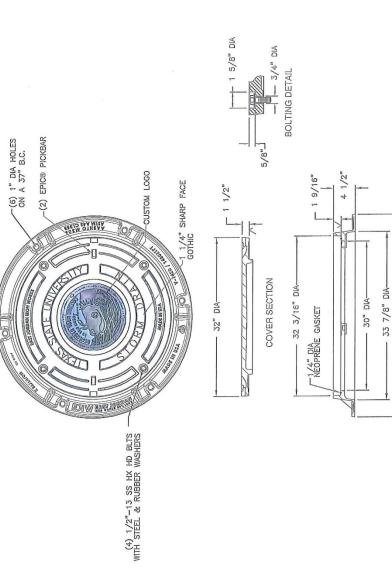
PART 3 – EXECUTION

3.01 N/A



V1420Z1PT V1430APT

Assembly



T T

PRELIMINARY Submittal Number NPR14-1918C

Design Features
-Materials
Frame
Gray Iron (CL35B)
Cover
Gray Iron (CL35B)

- Designates Machined Surface -Design Load Heavy Duty -Open Area Undipped n/a -Coating

Certification

-Country of Origin: USA -ASTM A48

Major Components 41420015 4143000XX

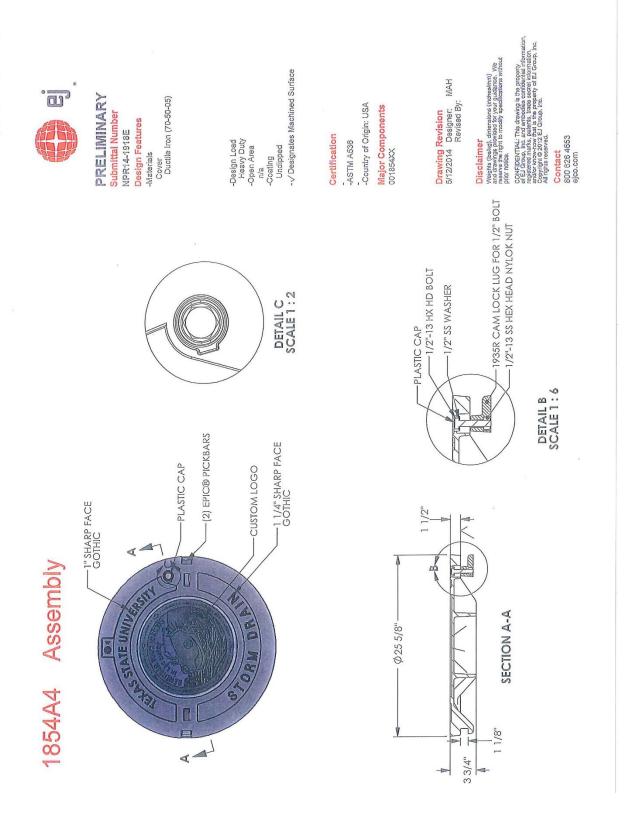
Drawing Revision 05/12/2014 Designer: MAH Revised By:

Weights (Ibs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications withour prior notice.

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- 40 3/4" DIA---FRAME SECTION

Contact 800 626 4653 ejco.com



V1420 V1430 Assembly





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Product Number 41430121A01
Design Features
-Maradas
Frame Gray Iron (CL35B)
Cover Gray Iron (CL35B)

-Design Load
Heavy Duty
-Open Area
n/a
-Coating
Undipped
-V Designates Machined Surface

Certification - ASTM A48 --- Country of Origin: USA

Major Components

41430121 41430121 Drawing Revision 10/19/2011 Designer Ju 5/6/2013 Revised By: DJH

Disclaimer
Weights (19s.Kg) dimensions (inchesimm)
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Weights (bs./kg) dimensions (Inches/mm)
and drawings provided for your cuidance. We
reserve the right to modify spediicalions without

4 1/2"

1 9/16"

1/4" DIA NEOPRENE GASKET

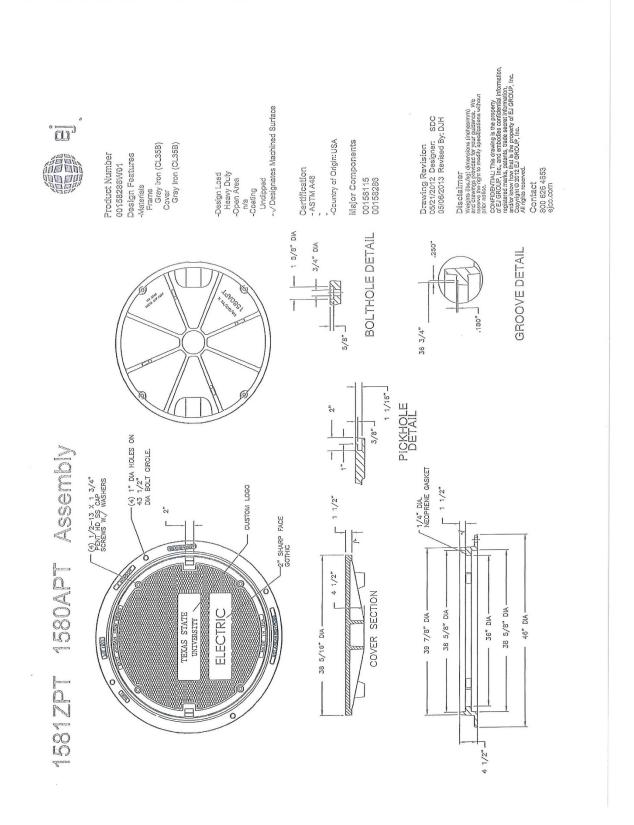
Undipped -- Designates Machined Surface Drawing Revision 10/19/2011 Designer: JIJ 5/6/2013 Revised By: DJH 41430122W01 Design Features -Materials Frame Frame Gray Iron (CL35B) Cover Gray Iron (CL35B) -Country of Origin: USA Major Components Product Number Certification - ASTM A48 -Design Load Heavy Duty -Open Area n/a -Coating 41420015 + 1 5/8" DIA - 3/4" DIA **BOLTING DETAIL** (4) 1/2"-13 SS HX HD BLTS WITH STEEL & RUBBER WASHERS 1/4" SHARP FACE GOTHIC (6) 1" DIA HOLES ON A 37" B.C. -EPIC® PICKBARS -CUSTOM LOGO SEED BY WIEV 2 1/4" J 23" DIA COVER SECTION TEXAS STATE 32 3/16" DIA UNIVERSITY 32" DIA COLEDIW HAST 20000AP

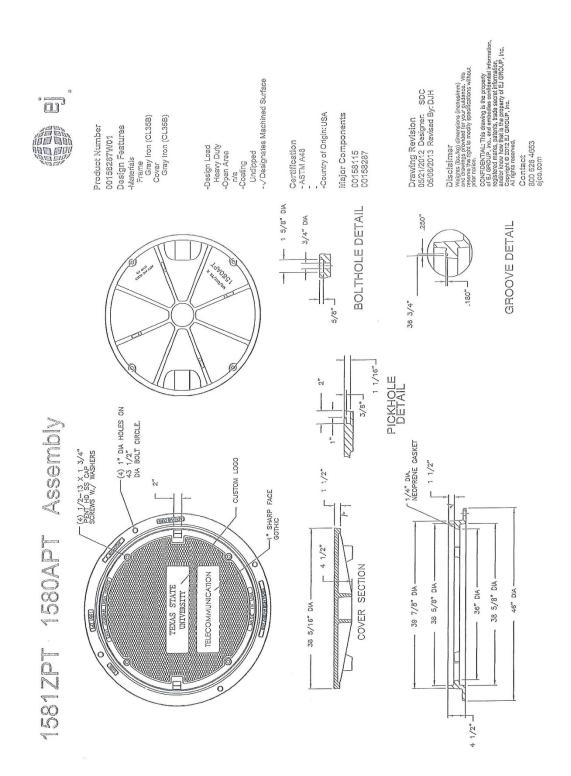
V:1420 V1430 Assembly

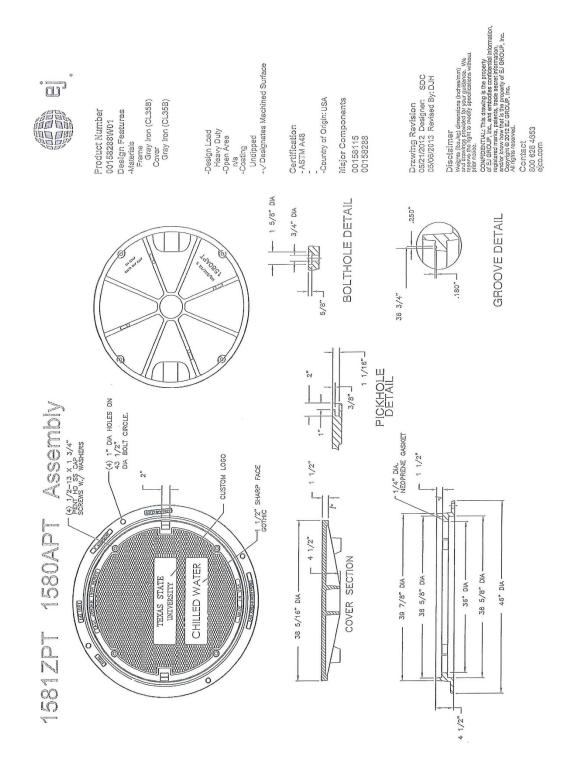
Revised Jan-16

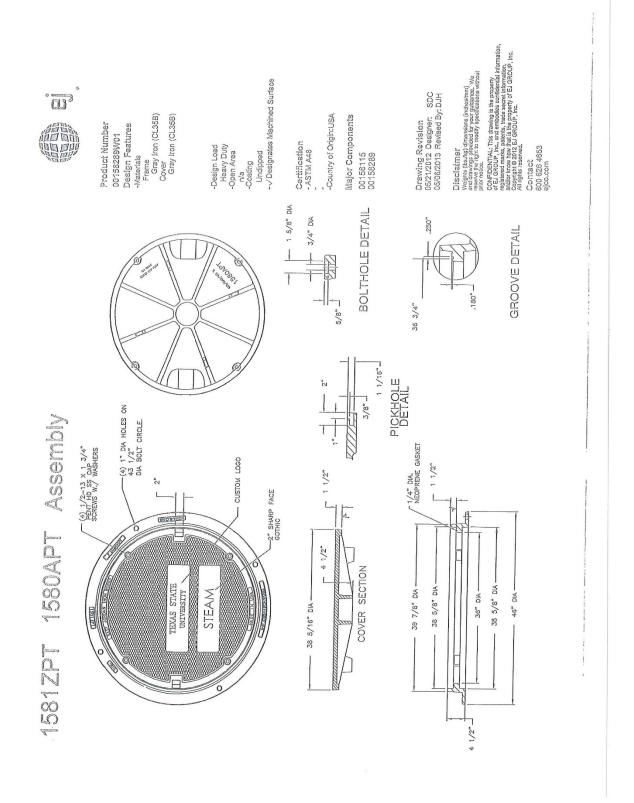
33 7/8" DIA-

30" DIA-









END OF SECTION 33 00 00