Bosses to be 1" dia at base
3/4" dia at top and 1/4" high.

Gusset

39 1/2"   26"

A   A

PLAN

NOTE Type A frames shall be used on paved streets and alleys.
Type B frames shall be used on unpaved streets and alleys.

26"   39 1/2"

B   B

PLAN

1"
27 1/4"
5/8" r
5"
SECTION A-A
STANDARD FRAME
TYPE B

28"
3/4"
4 1/2"
1 1/4"
5"   28 1/2"   5"
SECTION B-B
STANDARD FRAME
TYPE A

Lettering to be 1 1/2" high, 1 1/4" wide, and raised 3/16".
Notch for Lifter

STORM
SEWER
ENGINEERING DIVISION

2 1/2"±1" Pick Hole
Designate kind of sewer, "Storm" or "Sanitary".

PLAN OF TOP

30°
8 - 5/8" dia vents
Equally spaced
PLAN OF UNDERSIDE

Max Height Pipe Can Enter Manhole
1'-6"
3' for 4' Dia.
4 1/2' for 5' Dia.
6' for 6' Dia.

8 1/2" Brick Masonry. Every Fifth Course of brick to be headers.

Plaster Entire Outside Surface of All Manholes With 1/2" Coat 1:2 Portland Cement & Sand Mortar

4', 5', or 6'

10"   Outlet Pipe
F. Manhole and Outlet Pipe
1/2" Ø Bars at 6" Cts.

Class "A" Concrete poured not less than 24 hours before building brick walls

ELEVATION

PLAN

DETAIL STANDARD MASONRY MANHOLE

Mortar to be 1:2 Portland Cement & Sand
Use 8-1/2" Ø x 4'-0" Rein bars when Frame & Cover is Specified
1/2" Rein Bars at 8" c/c both ways
Plaster entire outside surface with 1/2" coat of 1:2 Portland cement and sand mortar

variable

Class "A" Concrete poured not less than 24 hours before building brick walls

SECTION C-C
DETAIL OF BRICK
MASONRY JUNCTION BOX
LOCATED IN PAVING

C   C

Std Manhole Frame & Cover Type "B"

PLAN

27 7/8"
3"
SECTION C-C
STANDARD COVER

GENERAL NOTES:
1 Castings shall conform to the A.S.T.M. Specification for Gray-Iron Castings, Serial Designation A 48-29
2 When each cover is placed in any position in its associated frame, the side play in any direction shall not exceed 1/8 inch
3 Type A frames shall be used on paved streets and alleys
4 Type B frames shall be used on unpaved streets and alleys
5 No wording or markings of any kind other than those shown on this Standard will be permitted on these Castings
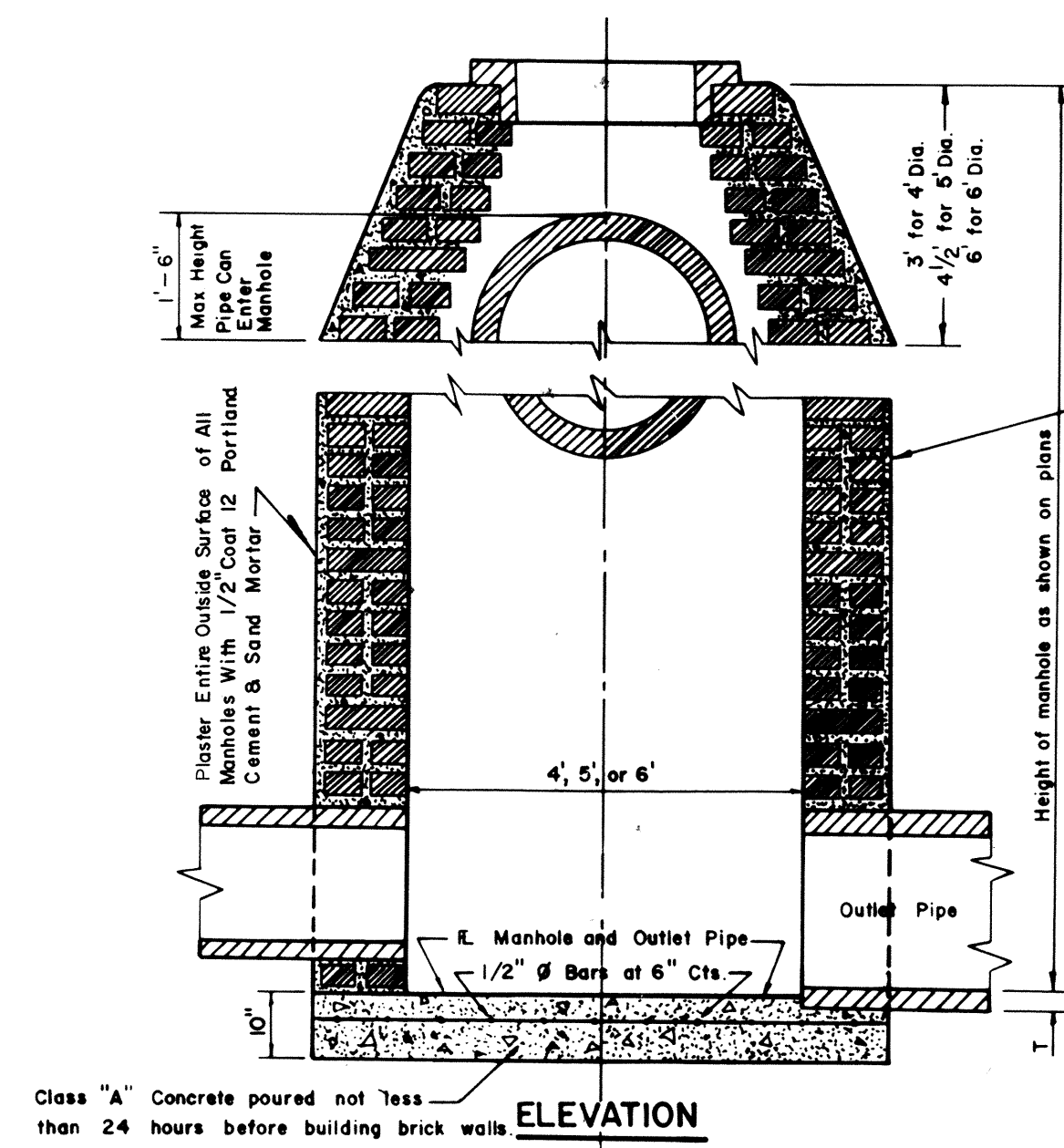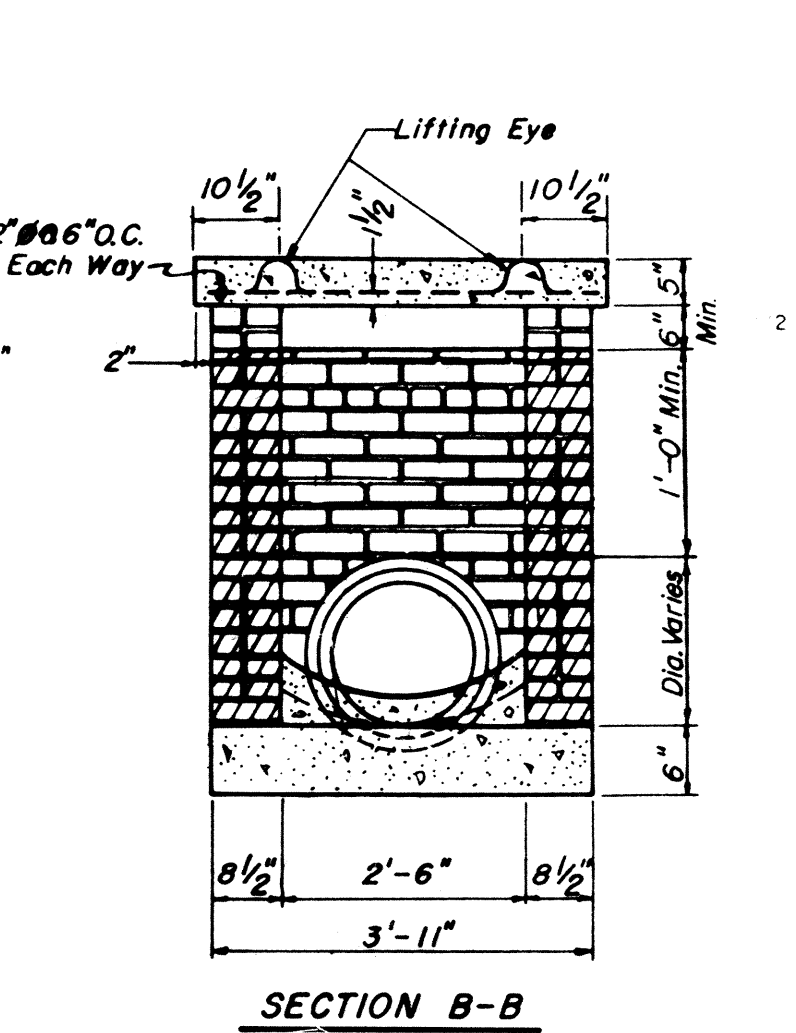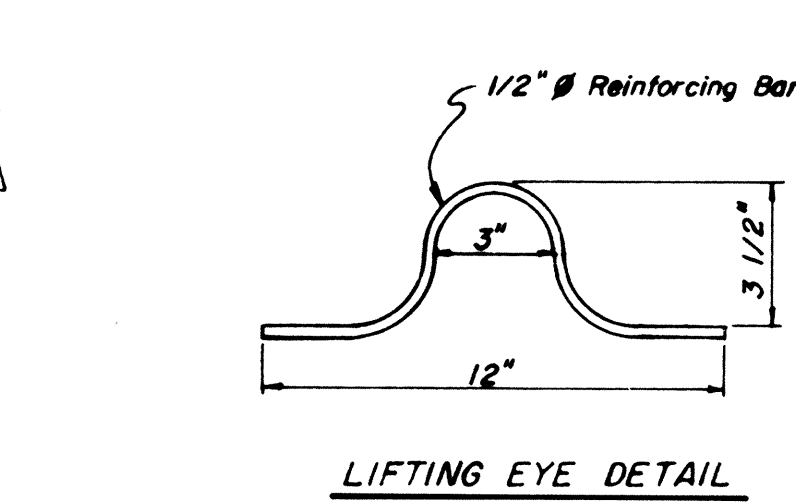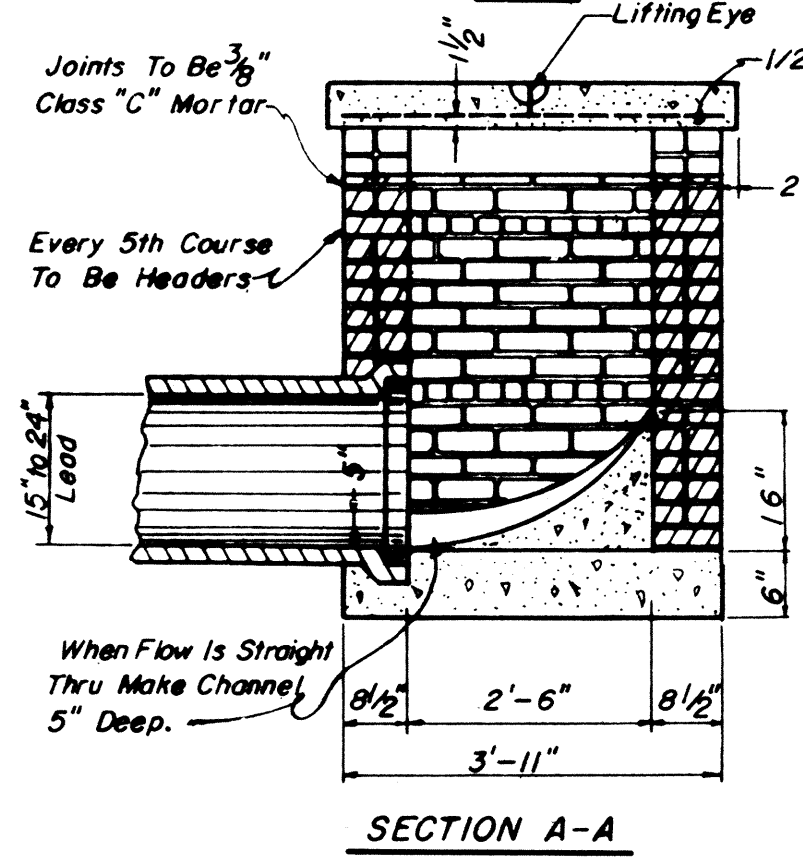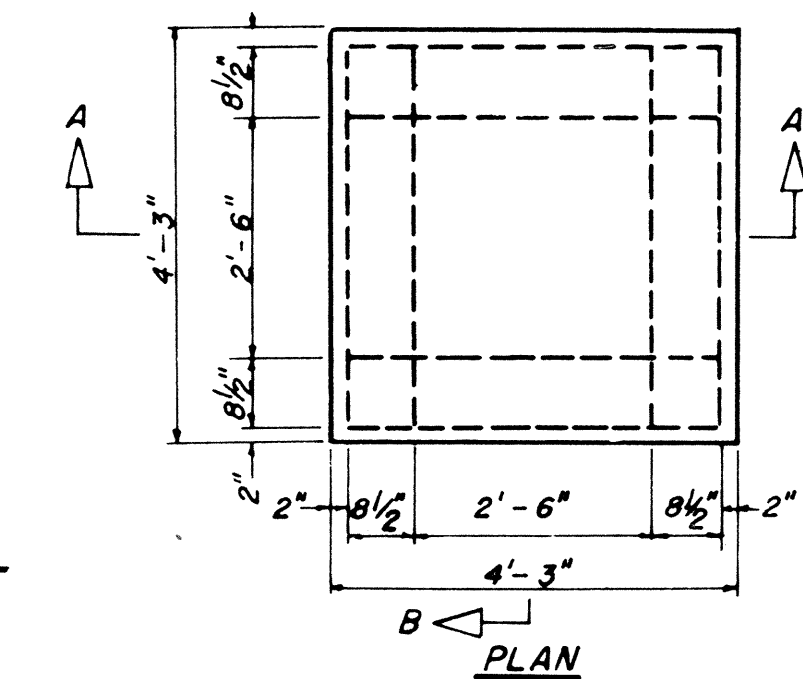6 The average weight of casting will not be less than 98% of weights shown

CASTING WEIGHTS
A ring only   347 lbs
B ring only   392 lbs
Cover only   251 lbs
Total "A"   598 lbs
Total Type "B" 643 lbs

1/2" Ø Reinforcing Bar
3"
3 1/2"
12"
LIFTING EYE DETAIL

A   A
8 1/2"
4'-3"
2'-6"
8 1/2"
PLAN
B
2"   8 1/2"   2'-6"   8 1/2"   2"
4'-3"

Lifting Eye

10 1/2"   10 1/2"

Joints To Be 3/8"
Class "C" Mortar
1/2" Ø @ 6" O.C. Each Way
2"
Every 5th Course To Be Headers
1/2" x 24" Lead
6"
When Flow Is Straight Thru Make Channel 5" Deep.
8 1/2"   2'-6"   8 1/2"
3'-11"
SECTION A-A

1'-0" Min.
Dia. Varies
6"
8 1/2"   2'-6"   8 1/2"
3'-11"
SECTION B-B

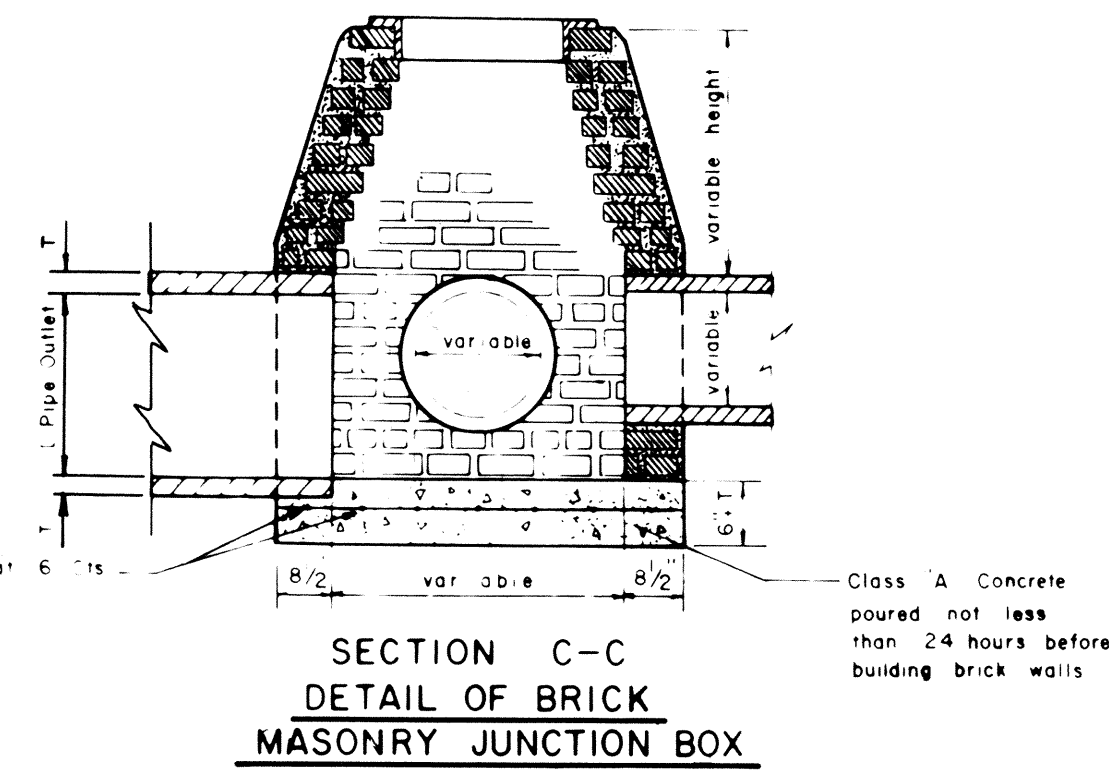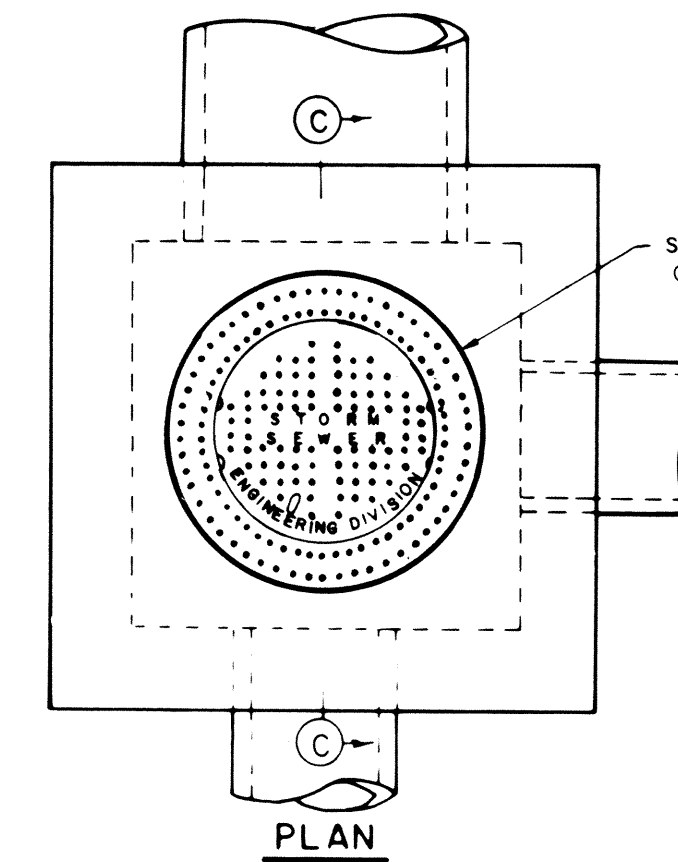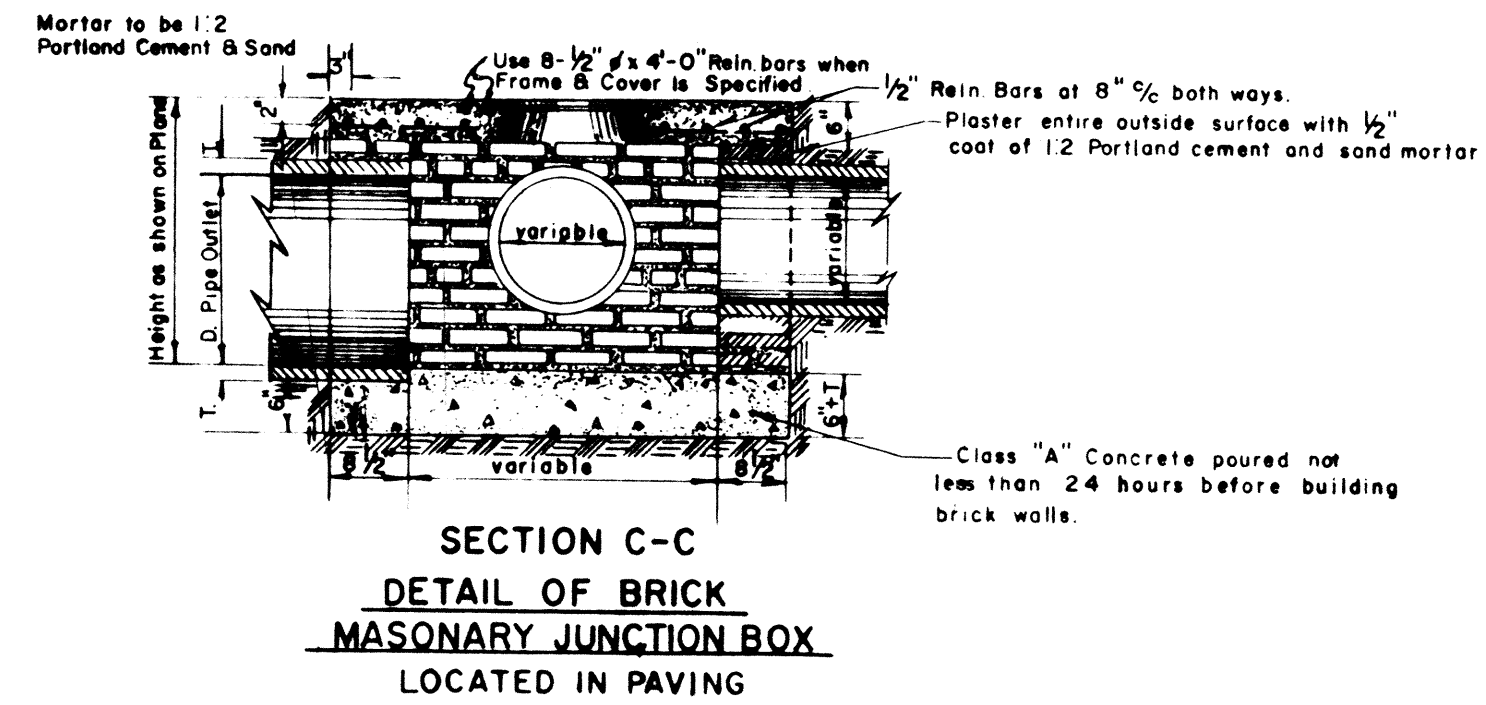BOX TYPE AREA INLET
No Scale

GENERAL NOTES:
1. Basis of payment shall be a lump sum, or as designated in the proposal.
2. Concrete shall be 3500psi in 28 days.
3. Openings may be omitted on 1, 2 or 3 sides as directed.
4. Reinforcing steel in top slab to be 9-1/2" Ø Bars 4'-0" Long @ 6" on centers each way.

Lifting Eye
1/2" Ø @ 6" O.C. Each Way
Pipe Outlet
variable
variable height
2 Ø Bars at 6" cts.
8 1/2"   variable
Class A Concrete poured not less than 24 hours before building brick walls

SECTION C-C
DETAIL OF BRICK
MASONRY JUNCTION BOX

APPROVED
Gene W. Sayers
Gene W. Sayers
City Engineer

D-1

DESIGN STANDARD DETAILS
CITY OF CHOCTAW OKLAHOMA

STANDARD MASONRY MANHOLE
AND
JUNCTION BOX

Sheet No. ____ of ____