

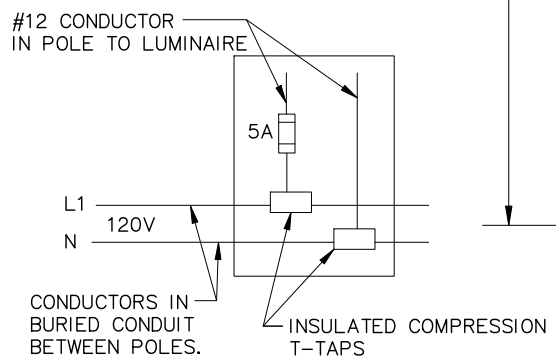
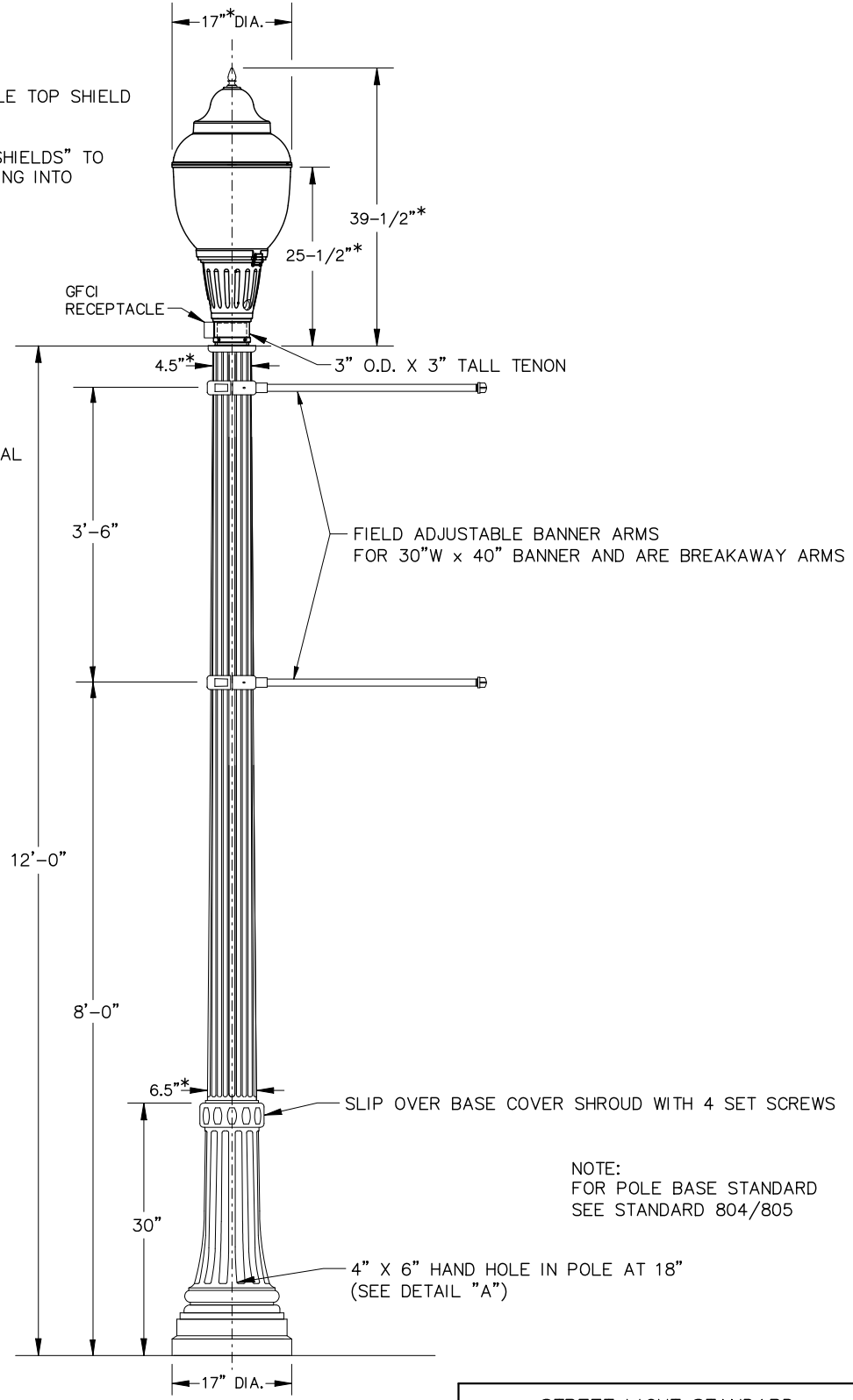
PATH: /e:/parts/std/DGN_sids/800-StreetLightStdTypeAcorn.dgn SBW 03/16/2015

LUMINAIRE TO HAVE "DARK SKY" COMPATIBLE TOP SHIELD TO PREVENT UPWARD SPILL LIGHT.

WHERE REQUIRED, FACTORY MADE "HOUSE SHIELDS" TO BE INSTALLED TO PREVENT LIGHT FROM GOING INTO RESIDENCES AND BUSINESSES.

POLE:
FLUTED BLACK FIBERGLASS (TAPERED)
COMPOSITE POLE ON ANCHOR BASE OR EQUAL

*DIMENSION TOLERANCE
+/- 1" WHERE INDICATED

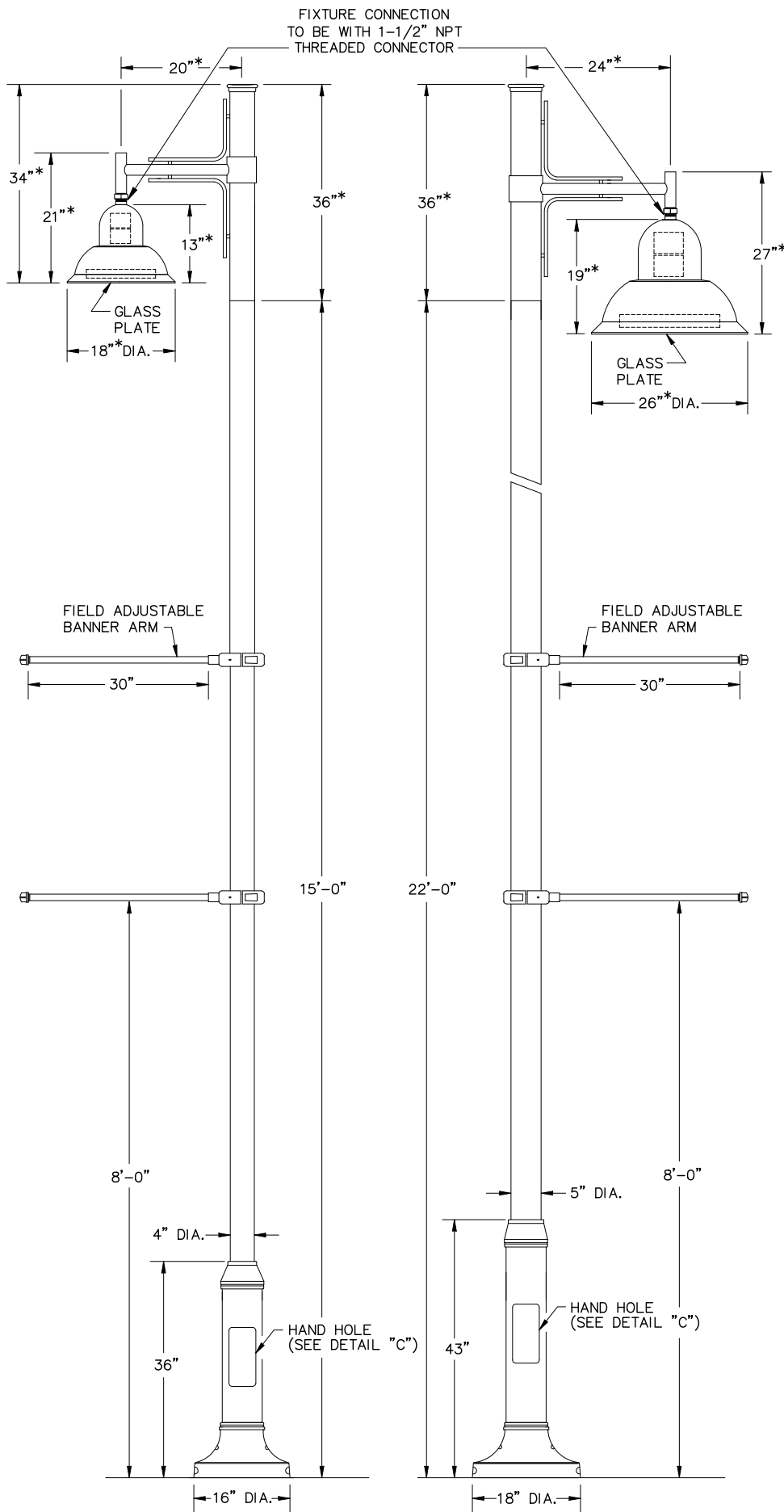


HAND HOLE DETAIL "A"
SCALE: NONE

POLE DETAIL
SCALE: NONE

NOTE:
FOR POLE BASE STANDARD
SEE STANDARD 804/805

STREET LIGHT STANDARD ACORN POLE AND FIXTURE	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W.	APPROVED
CHECKED BY:	
DATE: MARCH 2015	
NOT TO SCALE	STANDARD NO. 800

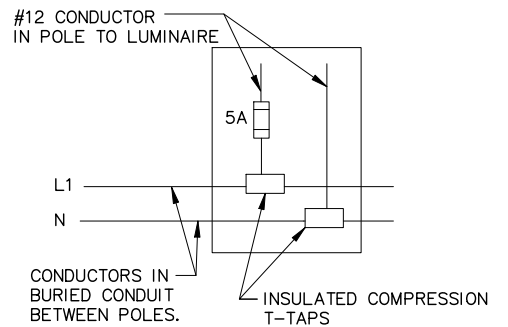


POLE STYLE DETAIL "A"
SCALE: NONE

POLE STYLE DETAIL "B"
SCALE: NONE

TYPE POLE:
"A" POLES USED ON BLOCK FACES
"B" POLES USED AT INTERSECTIONS

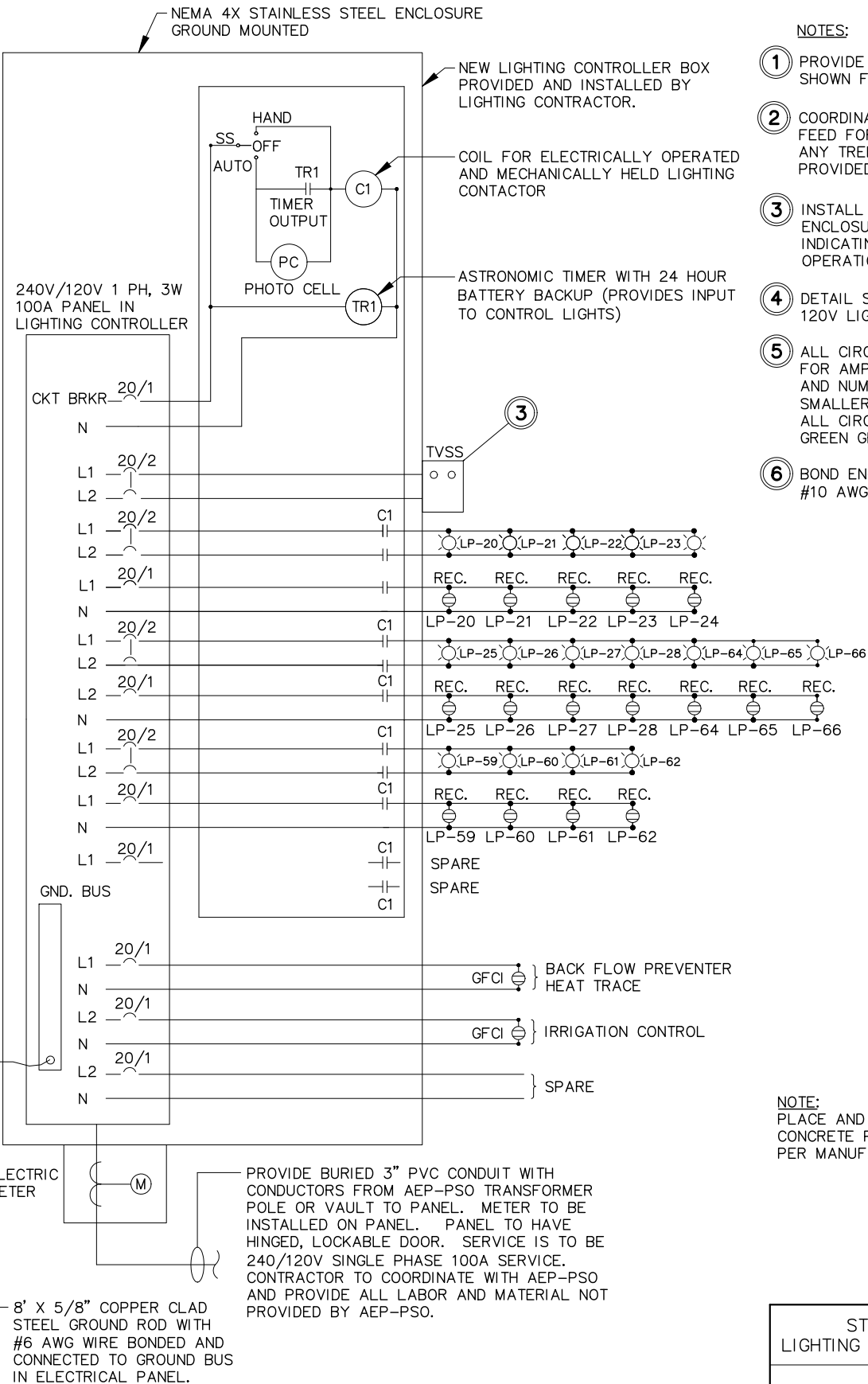
*DIMENSION TOLERANCE
+/- 1" WHERE INDICATED



HAND HOLE DETAIL "C"
SCALE: NONE

NOTE:
FOR POLE BASE STANDARD
SEE STANDARD 804/805

STREET LIGHT STANDARD TYPE BALL FIELD	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W.	APPROVED
CHECKED BY:	
DATE: MARCH 2015	
NOT TO SCALE	STANDARD NO. 802



NOTES:

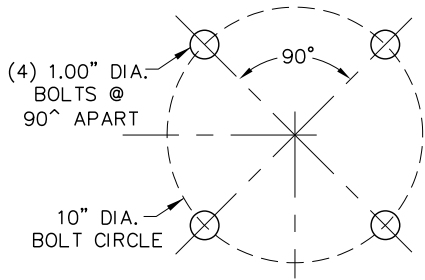
- ① PROVIDE AND INSTALL ALL EQUIPMENT SHOWN FOR LIGHTING CONTROL.
- ② COORDINATE WITH AEP/PSO UNDERGROUND FEED FOR CONTROLLERS AND PROVIDE ANY TRENCHING AND CONDUIT NOT PROVIDED BY PSO FOR CONTROLLERS.
- ③ INSTALL ON BOX, TVSS IN NEMA 4X ENCLOSURE. TVSS TO HAVE VISIBLE INDICATING LIGHTS TO SHOW PROPER OPERATION AND FAULT.
- ④ DETAIL SHOWS 240V LIGHTS. 120V LIGHTS ARE ALSO ACCEPTABLE.
- ⑤ ALL CIRCUITS TO BE SIZED PER NEC FOR AMPACITY AND VOLTAGE DROP AND NUMBER OF CIRCUITS. NO WIRE SMALLER THAN #12 IS TO BE USED. ALL CIRCUITS TO CONTAIN A SEPARATE GREEN GROUND CONDUCTOR.
- ⑥ BOND ENCLOSURE TO GROUND BUS WITH #10 AWG WIRE.

NOTE:

PLACE AND BOLT LIGHTING CONTROLLER TO CONCRETE PAD. BOLT SIZE AND LOCATION PER MANUFACTURER RECOMMENDATION.

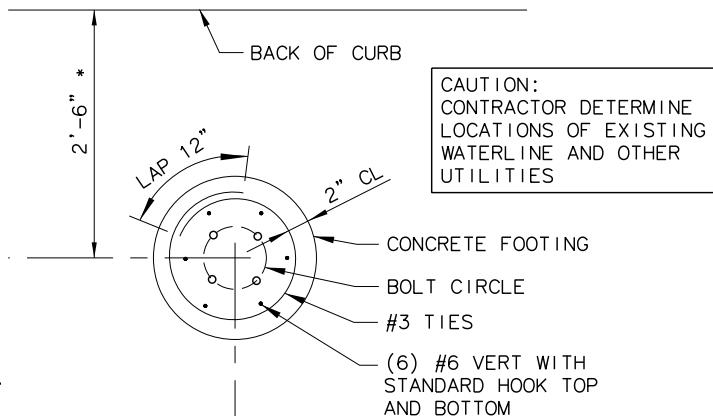
LIGHTING CONTROLLER DETAIL AND SCHEMATIC
SCALE: NONE

STREET LIGHT STANDARD LIGHTING CONTROLLER AND SCHEMATIC	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W.	APPROVED
CHECKED BY:	
DATE: SEPTEMBER 2014	
NOT TO SCALE	STANDARD NO. 803

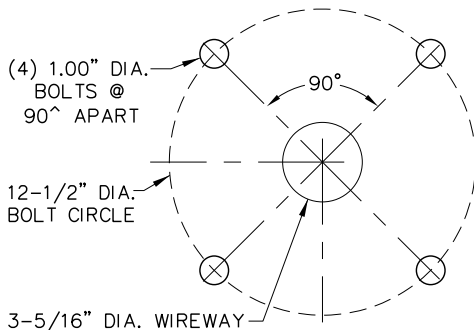


STD 800 AND 806 ANCHOR BOLT LAYOUT

SCALE: NONE

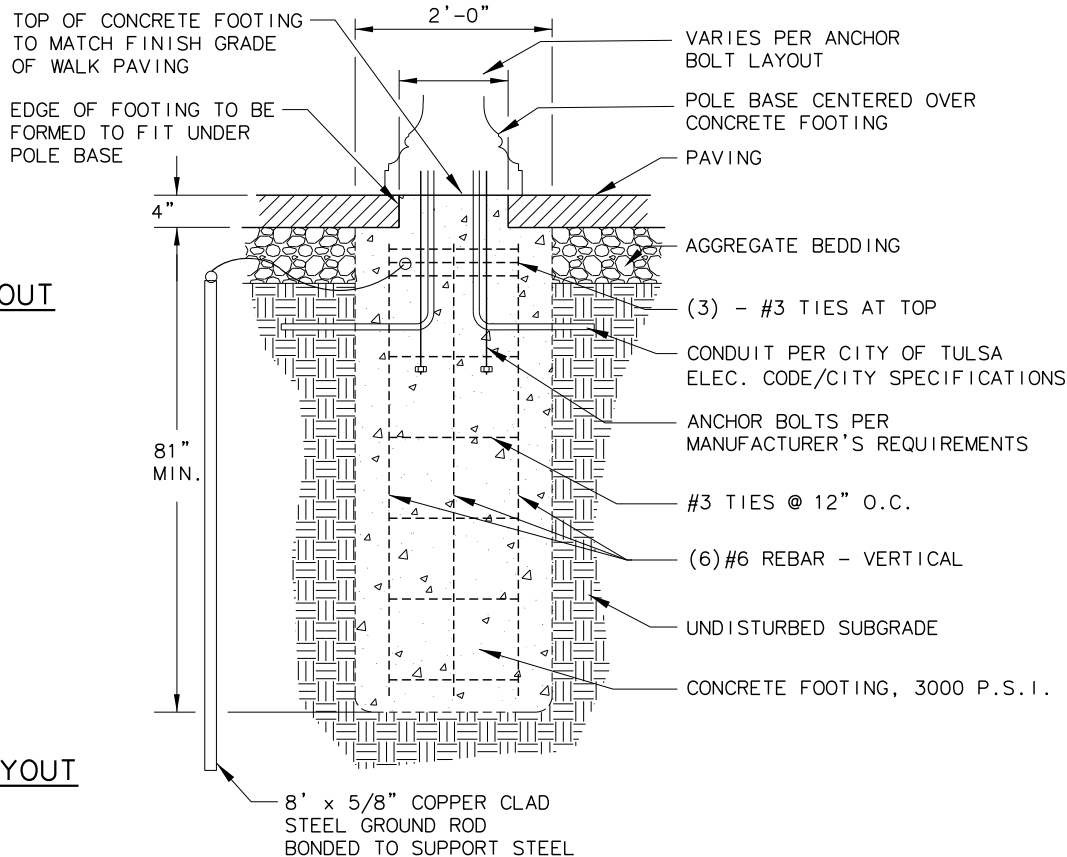


* MAINTAIN 4' MIN. CLEARANCE WIDTH FOR SIDEWALK EITHER SIDE OF POLE BASE



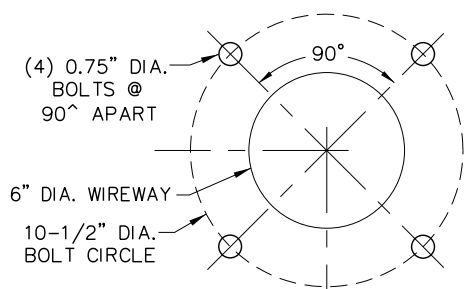
STD 801 ANCHOR BOLT LAYOUT

SCALE: NONE



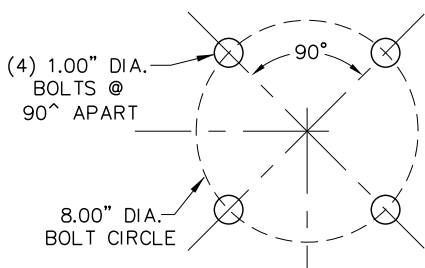
DRILLED PIER LIGHTPOLE FOUNDATION

SCALE: NONE



STD 802A ANCHOR BOLT LAYOUT

SCALE: NONE



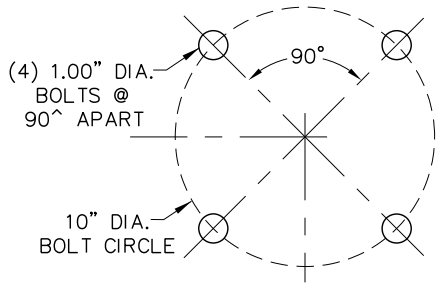
STD 802B ANCHOR BOLT LAYOUT

SCALE: NONE

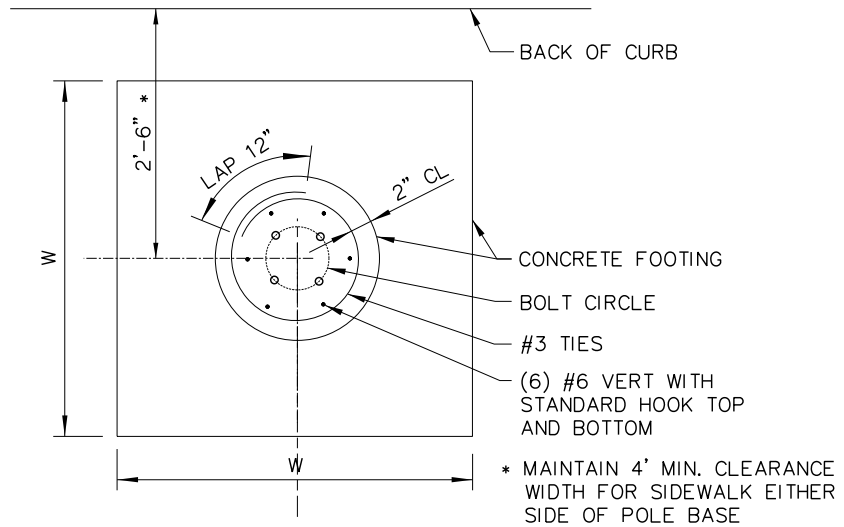
REFER TO MANUFACTURER FOR GEOMETRY OF POLE BASE NOT SHOWN

POLE BASE DETAILS FOR STANDARDS 800, 801, 802	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
M.K.J. CHECKED BY: DATE: JULY 2016	APPROVED
NOT TO SCALE	STANDARD NO. 804

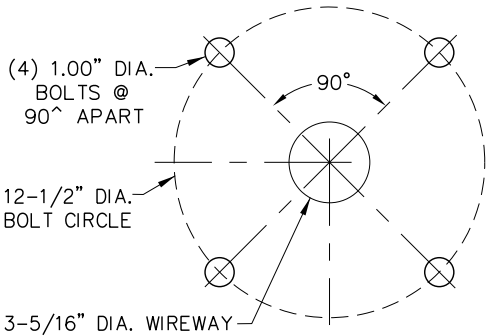
PATH: /e1/parts/std/DGN_stds/804-LightPoleBaseDetails.dgn MKJ 07/11/2016



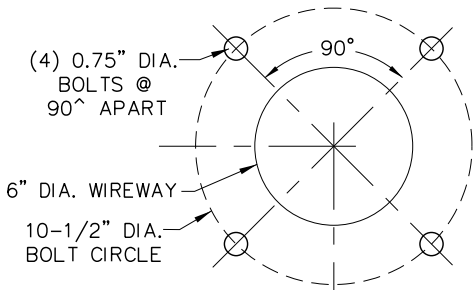
CAUTION:
CONTRACTOR DETERMINE
LOCATIONS OF EXISTING
WATERLINE AND OTHER
UTILITIES



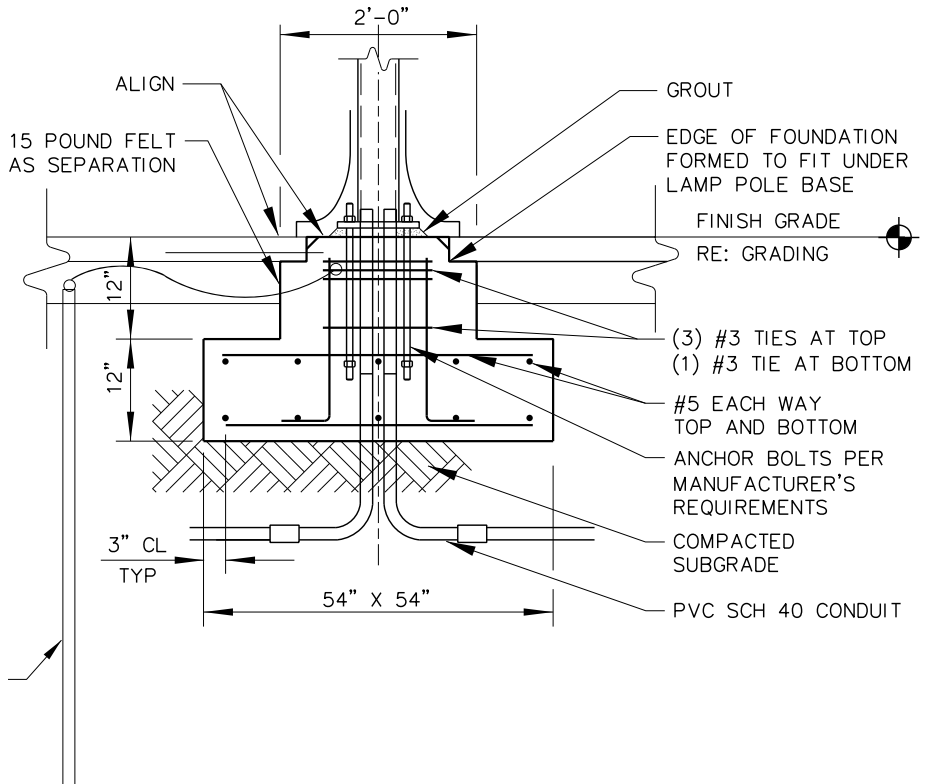
STD 800 ANCHOR BOLT LAYOUT
SCALE: NONE



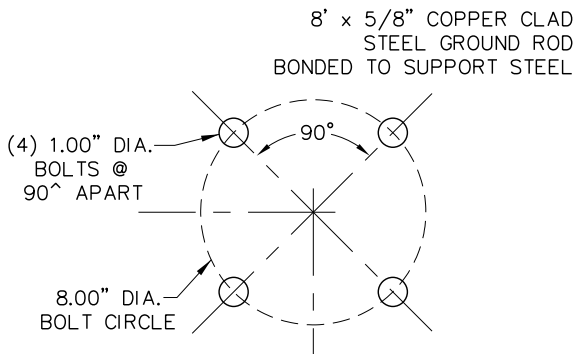
STD 801 ANCHOR BOLT LAYOUT
SCALE: NONE



STD 802A ANCHOR BOLT LAYOUT
SCALE: NONE



SHALLOW LIGHTPOLE FOUNDATION
SCALE: NONE



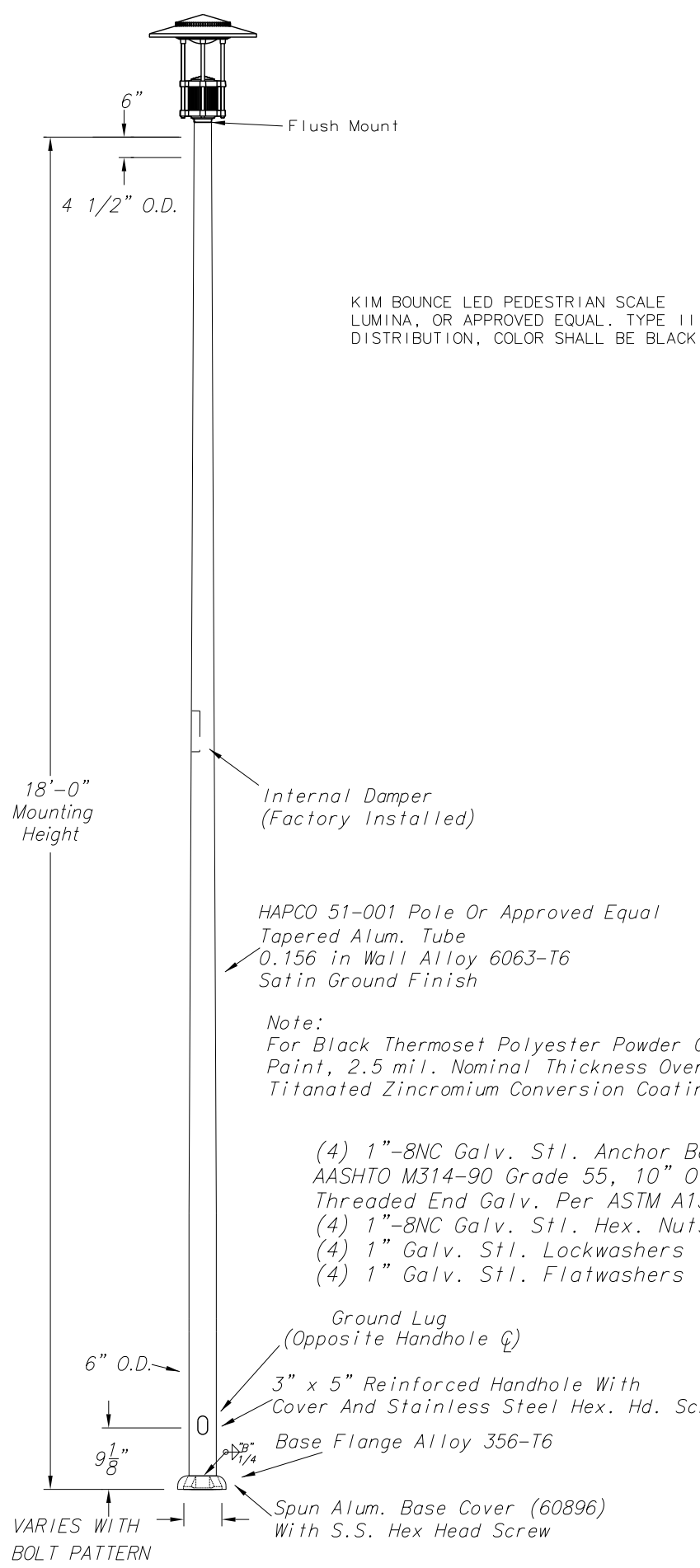
STD 802B ANCHOR BOLT LAYOUT
SCALE: NONE

REFER TO MANUFACTURER
FOR GEOMETRY OF POLE BASE
NOT SHOWN

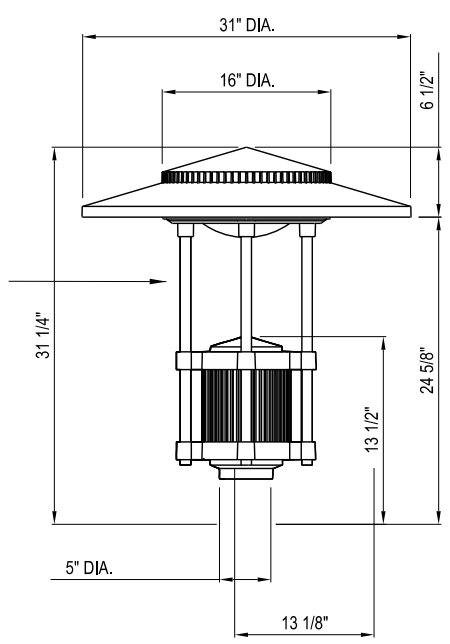
SHALLOW LIGHTPOLE BASE DETAIL	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: M.K.J.	APPROVED
CHECKED BY:	
DATE: JULY 2016	
NOT TO SCALE	STANDARD NO. 805

PATH: /e1/parts/std/DGN_std/805-ShallowLightpoleBase.dgn MKJ 07/12/2016

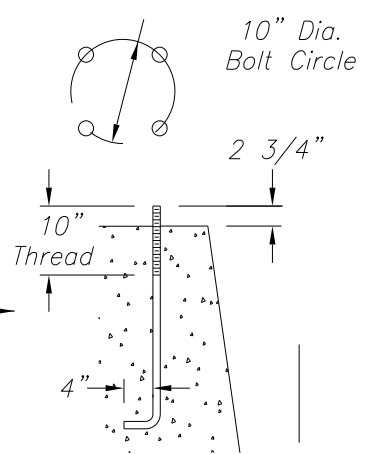
PATH: /e:/parts/std/DGN_std/8XX StreetLightStandard-RiverParksPoleandFixture.dgn MKJ 07/11/2016



KIM BOUNCE LED PEDESTRIAN SCALE LUMINA, OR APPROVED EQUAL. TYPE II DISTRIBUTION, COLOR SHALL BE BLACK

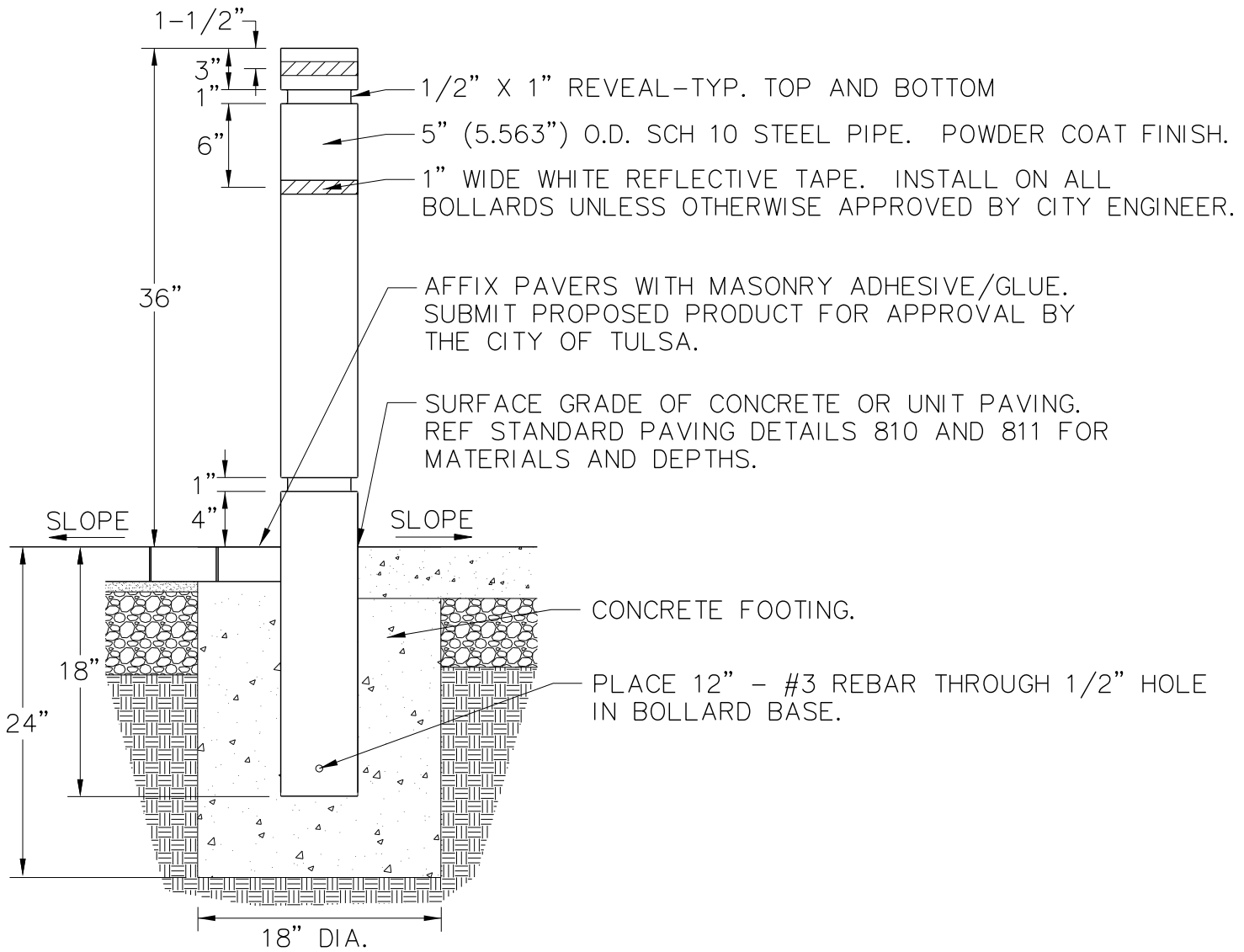


- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DRAWINGS ARE NOT TO SCALE
 3. BACKLIGHT CONTROL PER MANUFACTURER REFERENCE NUMBER 433-108.
 4. BANNER SAVER ARMS TO BE INSTALLED IF DESIRED PER MANUFACTURER'S SPECIFICATIONS.
- NOTE: FOR POLE BASE STANDARD SEE STD. 804



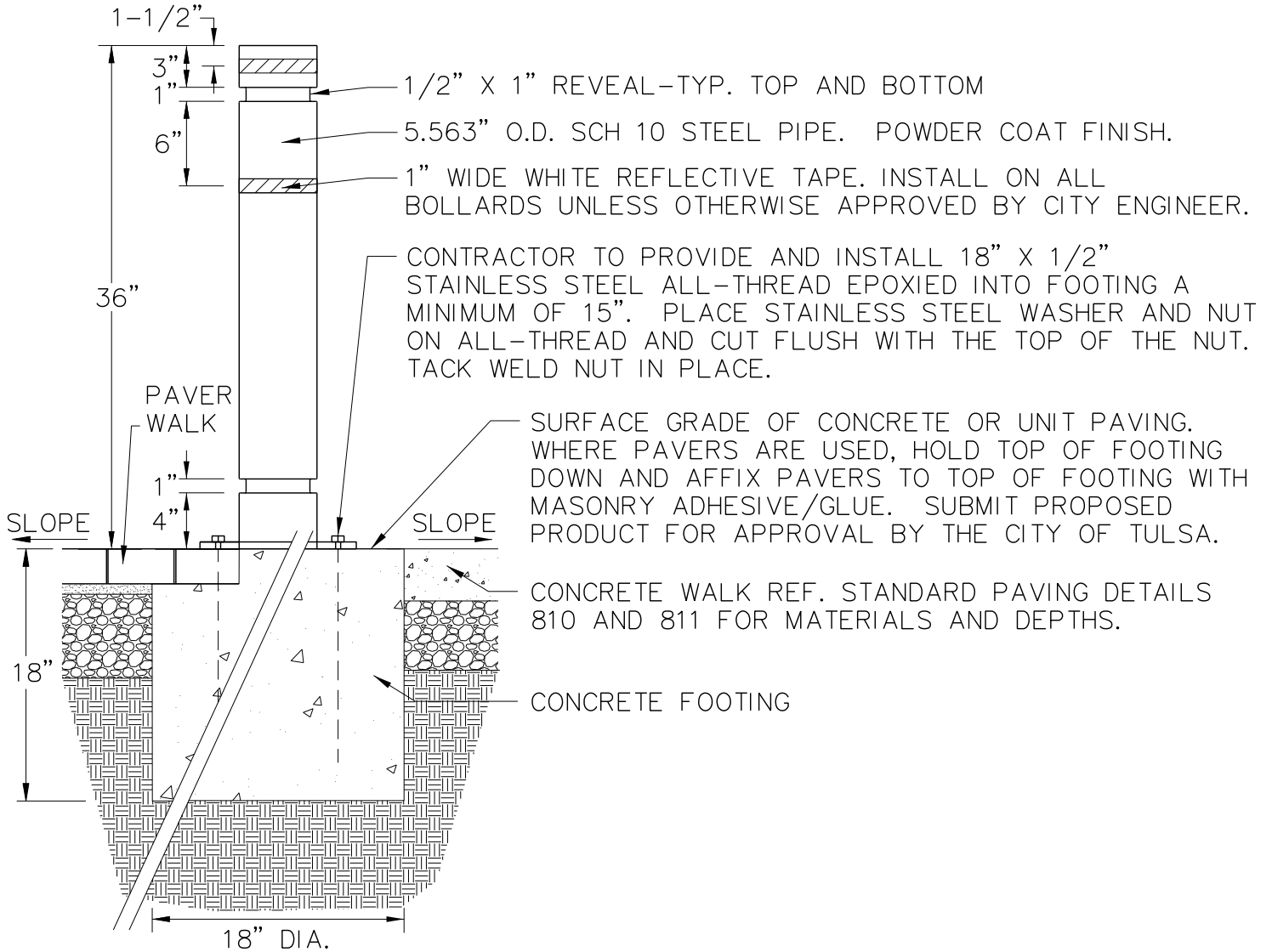
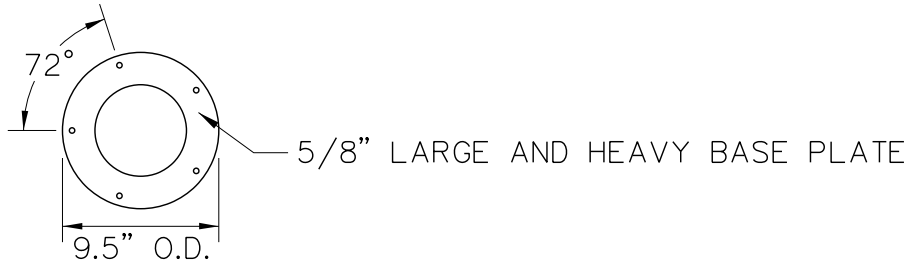
STREET LIGHT STANDARD - RIVER PARKS POLE AND FIXTURE	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: M.K.J.	APPROVED
CHECKED BY:	
DATE: JULY 2016	
NOT TO SCALE	STANDARD NO. 806

PATH: /e1/parts/std/DGN_std/821-CastBollard.dgn MKJ 7/11/2016



- NOTE:**
1. ACCEPTABLE MANUFACTURERS
 - FAIRWEATHER SITE FURNISHINGS
 - CREATIVE PIPE
 - APPROVED EQUAL BY CITY ENGINEER

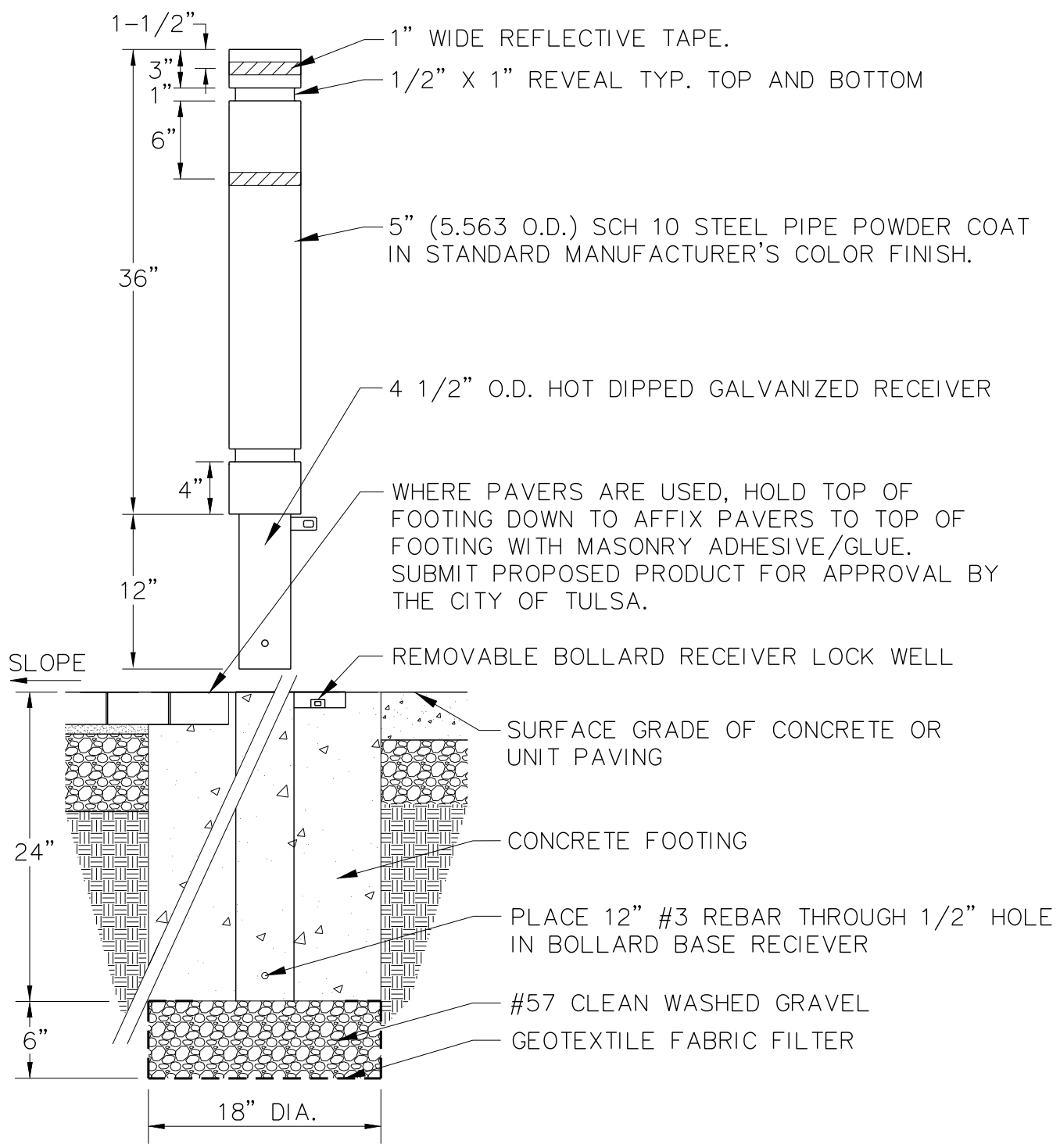
BOLLARD - CAST	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: M.K.J.	APPROVED
CHECKED BY: JULY 2016	
NOT TO SCALE	STANDARD NO. 821



NOTE:

1. ACCEPTABLE MANUFACTURERS
 - FAIRWEATHER SITE FURNISHINGS
 - CREATIVE PIPE
 - APPROVED EQUAL BY CITY ENGINEER

BOLLARD - SURFACE MOUNTED	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: M.K.J. CHECKED BY: JULY 2016	APPROVED
NOT TO SCALE	STANDARD NO. 822



NOTE:

1. DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994.
2. RECEIVER MUST BE INSTALLED OVER A GRAVEL BED TO PROVIDE ADEQUATE DRAINAGE.
3. LOCK AND KEY TO BE PROVIDED OR APPROVED BY THE CITY OF TULSA
4. ACCEPTABLE MANUFACTURERS
 - FAIRWEATHER SITE FURNISHINGS
 - CREATIVE PIP
 - APPROVED EQUAL BY CITY ENGINEER

BOLLARD - REMOVABLE	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: M.K.J.	APPROVED
CHECKED BY:	
DATE: JULY 2016	
NOT TO SCALE	STANDARD NO. 823

PATH: /e1/parts/std/DGN_stds/823-RemovableBollard.dgn MKJ 07/11/2016

PLAN VIEW

NEXT HOOP
SPACED 2'-2" O.C.
TYP.

36"

12" 10"

24" O.C.

1' TYP.

1.50"

6" MIN.

Ø2.38"

AFFIX WITH MASONRY ADHESIVE/GLUE. SUBMIT PROPOSED PRODUCT FOR APPROVAL BY THE CITY OF TULSA.

SURFACE GRADE OF CONCRETE OR UNIT PAVING. REF. STD. PAVING DETAILS

INSTALL 12" X #3 REBAR THROUGH HOLE

CONCRETE FOOTING

FRONT VIEW

SIDE VIEW

MATERIALS LIST:

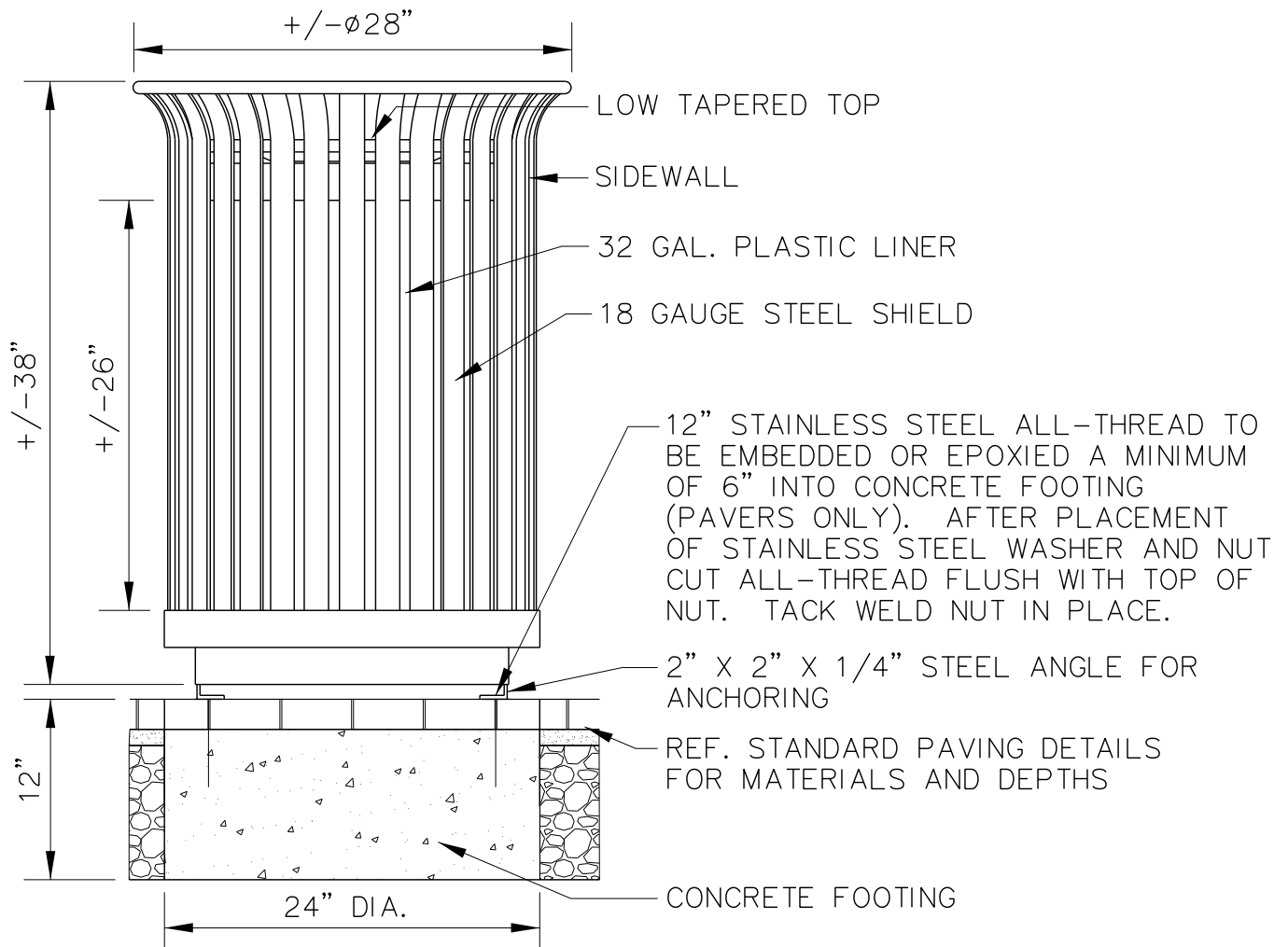
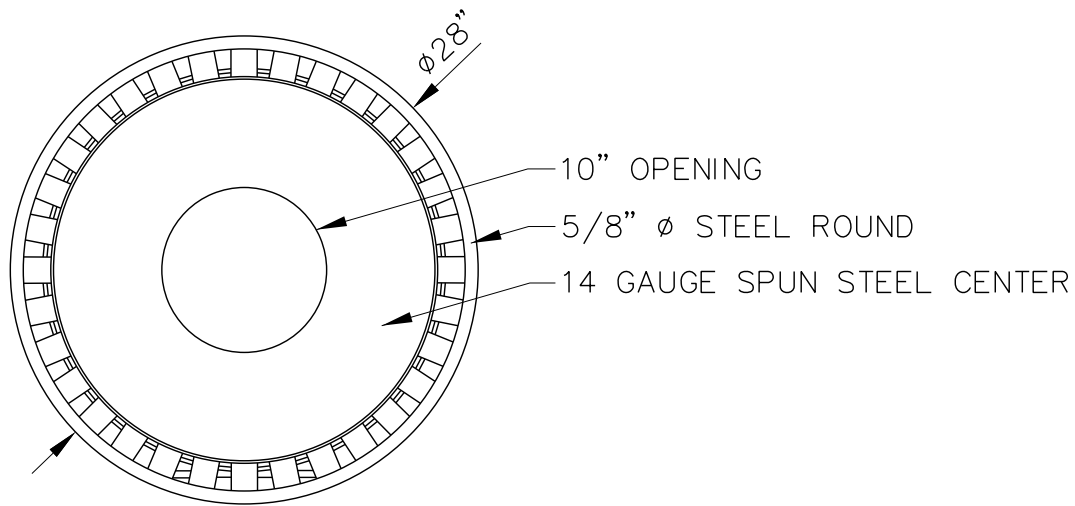
(1) TUBING - Ø 2-3/8" X .154" WALL STEEL TUBING

NOTE:

1. ALL STEEL MEMBERS COATED WITH ZINC RICH EPOXY THEN FINISHED WITH POLYESTER POWDER COATING.
2. ACCEPTABLE MANUFACTURERS
 - SITESCAPES, INC.
 - DUMOR
 - MADRAX
 - THE WAGNER COMPANIES
 - APPROVED EQUAL BY CITY ENGINEER

BIKE RACK	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: M.K.J. CHECKED BY: DATE: JULY 2016	APPROVED
NOT TO SCALE	STANDARD NO. 824

PATH NAME: /e1/parts/std/DGN_stds/824-BikeRack.dgn MKJ_07/11/2016



NOTE:

1. ACCEPTABLE MANUFACTURERS
 - DUMOR
 - VICTOR STANLEY
 - CREATIVE PIPE
 - APPROVED EQUAL BY CITY ENGINEER

TRASH RECEPTACLE	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: M.K.J.	APPROVED
CHECKED BY:	
DATE: JULY 2016	
NOT TO SCALE	STANDARD NO. 825



TREE ANCHOR LAYOUT PLAN

TOP OF ROOT BALL TO BE 2" BELOW PAVER FINISHED GRADE (THE EXPOSED ROOT FLARE OF THE TREE IS CONSIDERED TO BE THE TOP OF ROOT BALL)

CUT AND REMOVE ALL WIRE ROPE AND BURLAP FROM TOP OF ROOT BALL

STEEL ANCHOR CABLE

SHREDDED PINE BARK MULCH TO BE LEVEL WITH THE TOP OF PAVER

80 MM CONCRETE UNIT PAVER EQUAL TO UNI ECO-STONE

1" TO 1-1/2" SAND SETTING BED

GEOTEXTILE SOIL SEPARATOR FABRIC

2'-6" DEPTH CU STRUCTURAL SOIL

EXISTING SIDEWALK AND BASE

PROPOSED CONCRETE OR PAVER SIDEWALK

CU STRUCTURAL SOIL UNDER PROPOSED PAVING TO LIMITS IDENTIFIED ON PLANS

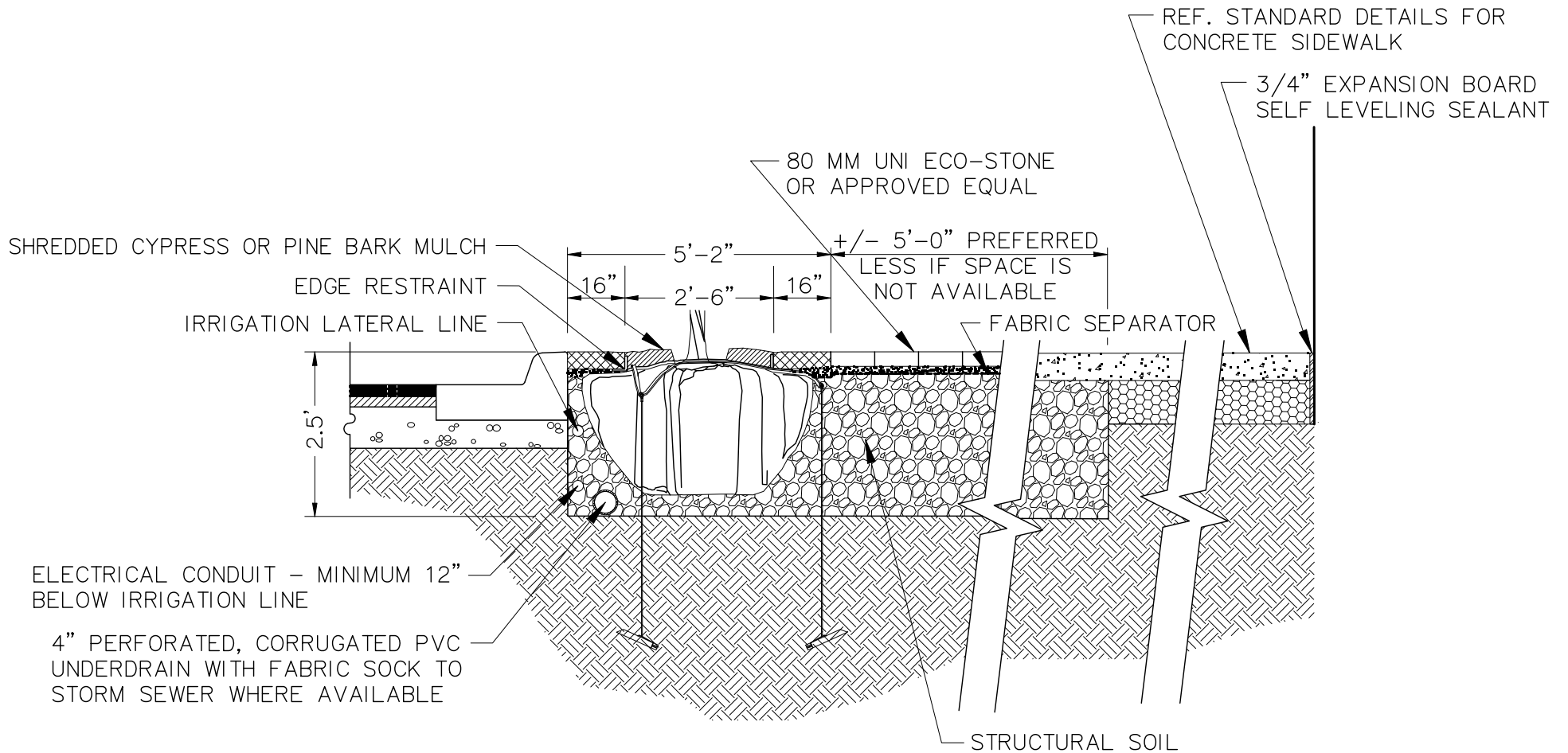
COMPACTED SUBGRADE TO 95% SPD

GROUND ANCHOR

NOTE:

1. EXCAVATE STRUCTURAL SOIL AS REQUIRED TO ACCOMMODATE TREE ROOT BALL.
2. GROUND ANCHORS EQUAL TO DUCKBILL EARTH ANCHORS MODEL #88 RBK STRAP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. TREE GROUND ANCHORS TO BE DRIVEN TO DEEPEST POSSIBLE DEPTH (MINIMUM DEPTH OF 42").

TREE WELL WITHOUT TREE GRATE	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W.	APPROVED
CHECKED BY:	
DATE: NOVEMBER 2014	
NOT TO SCALE	STANDARD NO. 830



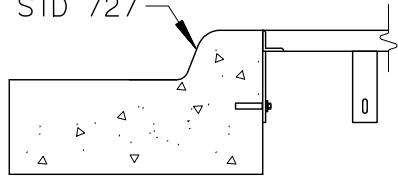
NOTE:

1. REFER TO PLANS FOR LIMITS OF STRUCTURAL SOIL.
2. WATERPROOFING REQUIRED IF BASEMENT IS UNDER SIDEWALK.

STRUCTURAL SOIL	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W. CHECKED BY: DATE: NOVEMBER 2014	APPROVED
NOT TO SCALE	STANDARD NO. 831

PATH: /e1/parts/std/DGN_stds/832-TreeGrateFrameAndConcreteBase.dgn SBW 12/12/2014

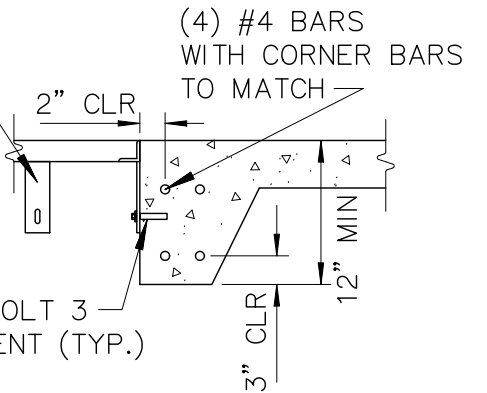
CONCRETE CURB AND GUTTER
RE: COT STD 727



RE: SECTION C FOR
INFORMATION NOT SHOWN

SECT A
FRAME AT CURB

GALVANIZED STEEL TAB
RE: MANUF



SECT C
FRAME AND BASE AT
CONCRETE SIDEWALK

1-3/4" x 1-3/4" x 1/4" ANGLE
GALVANIZED CONTINUOUS

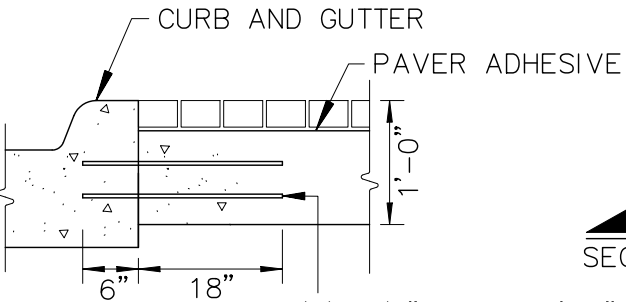
TREE GRATE
RE: STD 833

HILTI KWIK BOLT 3
OR EQUIVALENT (TYP.)

BACK OF CURB

SECT A

SECT C



(4) 1/2" DIA. x 2'-0"
DOWELS TO MATCH BARS
IN CONC BASE

SECT D
CONCRETE BASE FOR
BRICK AT CURB

RE: TREE GRATE MANUF
FOR CLEAR OPENING SIZE
CONC BASE BELOW

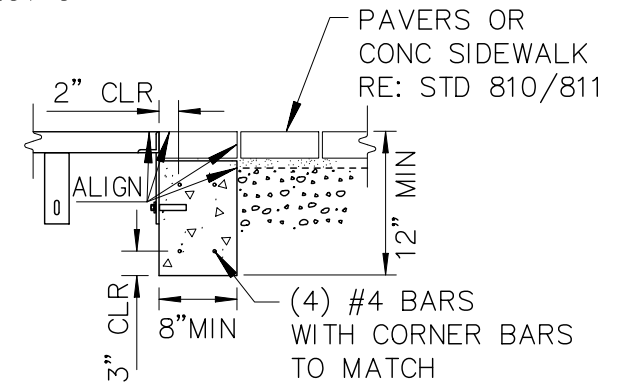
SECT D

SECT B

PAVERS
RE: STD 810/811

ALIGN PAVERS WITH EDGE
OF CONC BASE BELOW

START PATTERN FROM
EDGE OF BRICK BAND



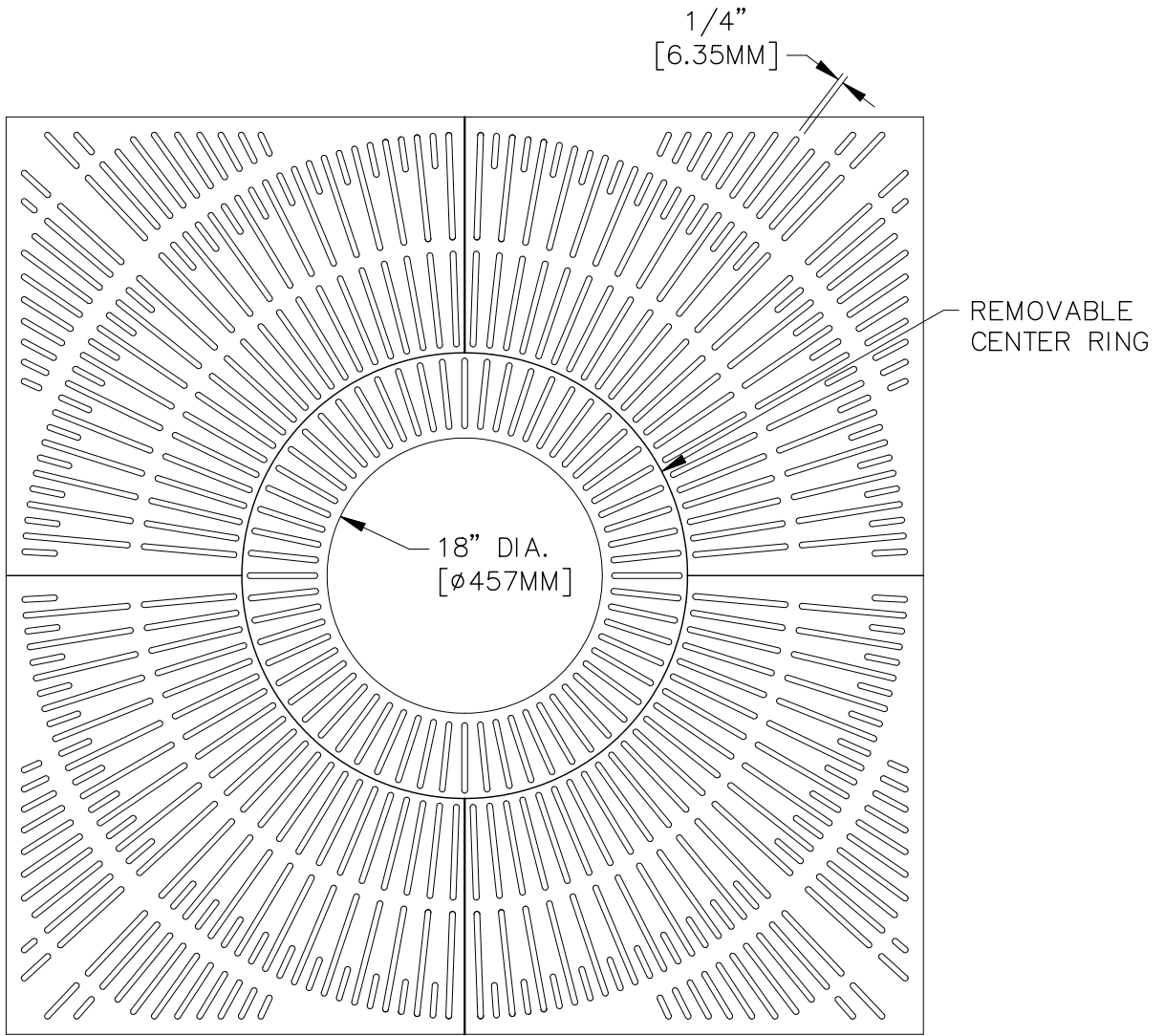
SECT B
FRAME AND BASE AT
BRICK SIDEWALK

TREE GRATE FRAME AND CONCRETE BASE

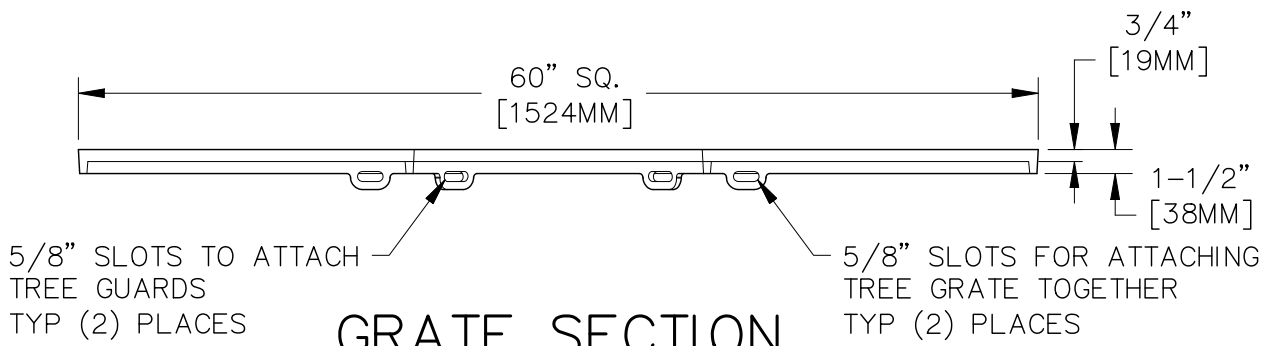
SCALE: NTS

TREE GRATE FRAME AND CONCRETE BASE	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W.	APPROVED
CHECKED BY:	
DATE: NOVEMBER 2014	
NOT TO SCALE	STANDARD NO. 832

PATH: /e1/parts/std/DGN_stds/833-ADATreeGrateSet.dgn SBW 12/11/2014



PLAN VIEW

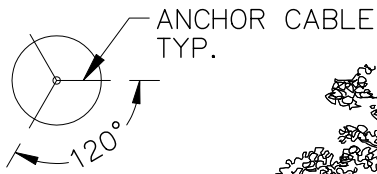


LOAD RATING:
NON-TRAFFIC

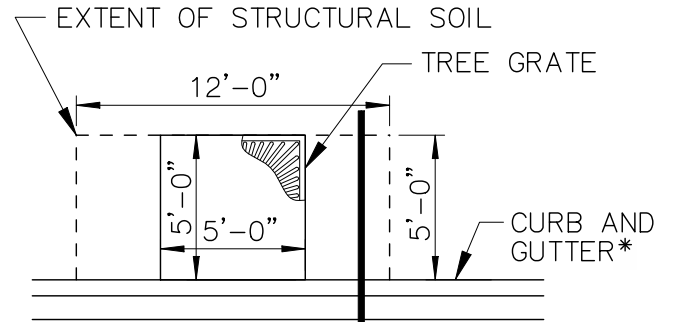
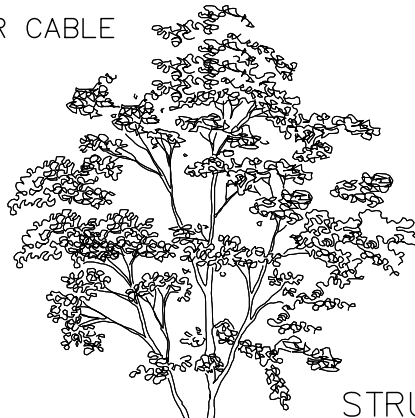
COATING:
UNDIPPED

SPECIFICATION:
GRATE - GRAY IRON
ASTM A48 CL35B

ADA TREE GRATE SET	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W.	APPROVED
CHECKED BY:	
DATE: NOVEMBER 2014	
NOT TO SCALE	STANDARD NO. 833



TREE ANCHOR LAYOUT PLAN

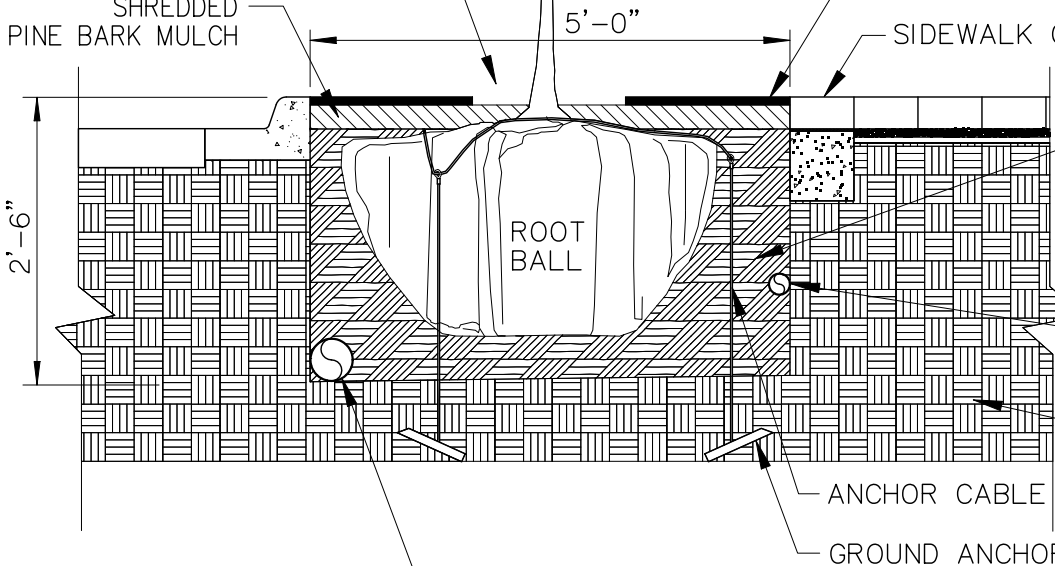


STRUCTURAL SOIL PLAN

*STRUCTURAL SOIL
5' X 12'
CENTERED ON TREE

CUT AND REMOVE ALL WIRE,
ROPE AND BURLAP FROM
TOP OF ROOT BALL

SHREDDED
PINE BARK MULCH



TREE GRATE
RE: STD 832 & 833

SIDEWALK OR BRICK PAVERS

STRUCTURAL SOIL AT TREES
SEE STRUCTURAL SOIL PLAN
FOR EXTENTS
COMPACT TO 95%
RE: SPECS

IRRIGATION LINES,
BURY 18" MIN.

COMPACTED BASE

ANCHOR CABLE
GROUND ANCHOR

4" PVC DRAINAGE LINE WITH FABRIC SOCK
SLOPE PIT 1% TO DRAINAGE LINE.
DRAIN TO BE PERFORATED IN TREE PIT ONLY,
LINE BETWEEN PITS TO BE SOLID.

NOTE:

1. EXCAVATE STRUCTURAL SOIL AS REQUIRED TO ACCOMMODATE TREE ROOT BALL.
2. GROUND ANCHORS EQUAL TO DUCKBILL EARTH ANCHORS MODEL #88 RBK STRAP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. TREE GROUND ANCHORS TO BE DRIVEN TO DEEPEST POSSIBLE DEPTH (MINIMUM DEPTH OF 42").

TREE WELL WITH GRATE

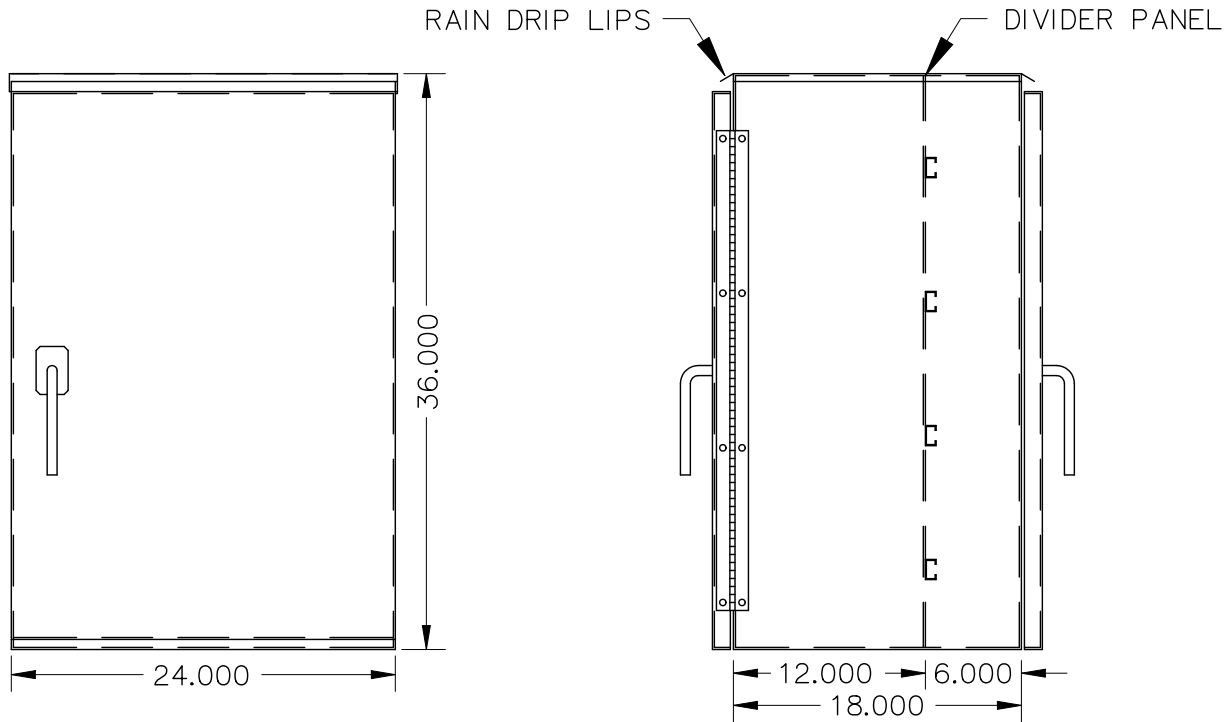
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

DRAWN BY: S.B.W.
CHECKED BY:
DATE: NOVEMBER 2014

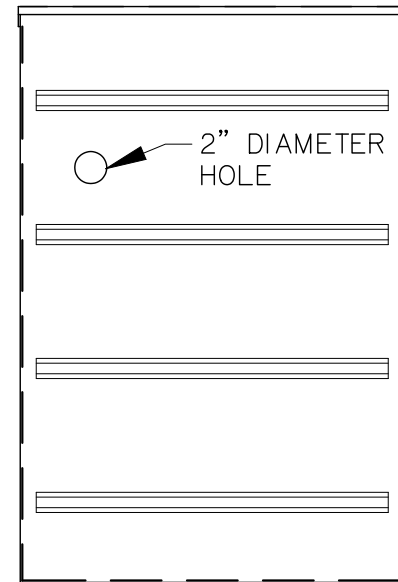
APPROVED

NOT TO SCALE

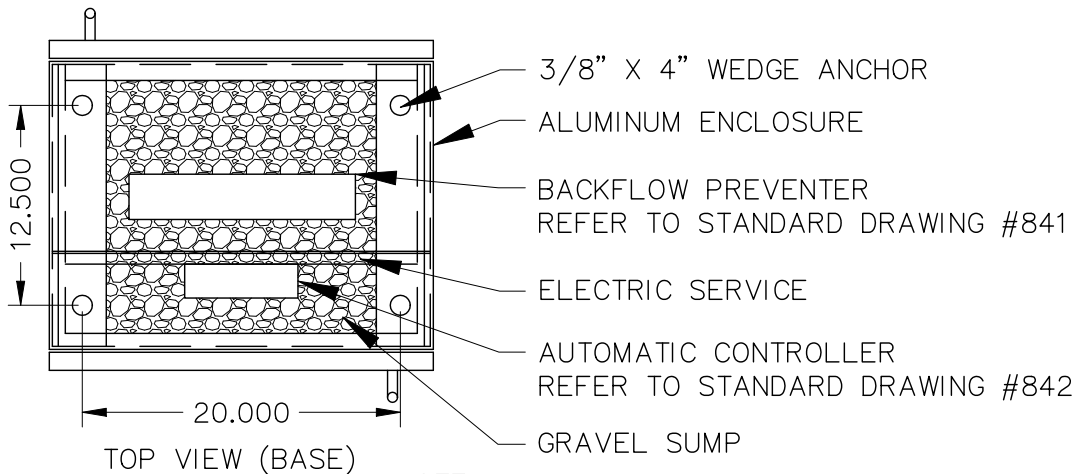
STANDARD NO. 834



IRRIGATION CONTROLLER AND BACKFLOW PREVENTER ENCLOSURE



DIVIDER PANEL UNISTRUT SPACING TO BE DECIDED BY CUSTOMER

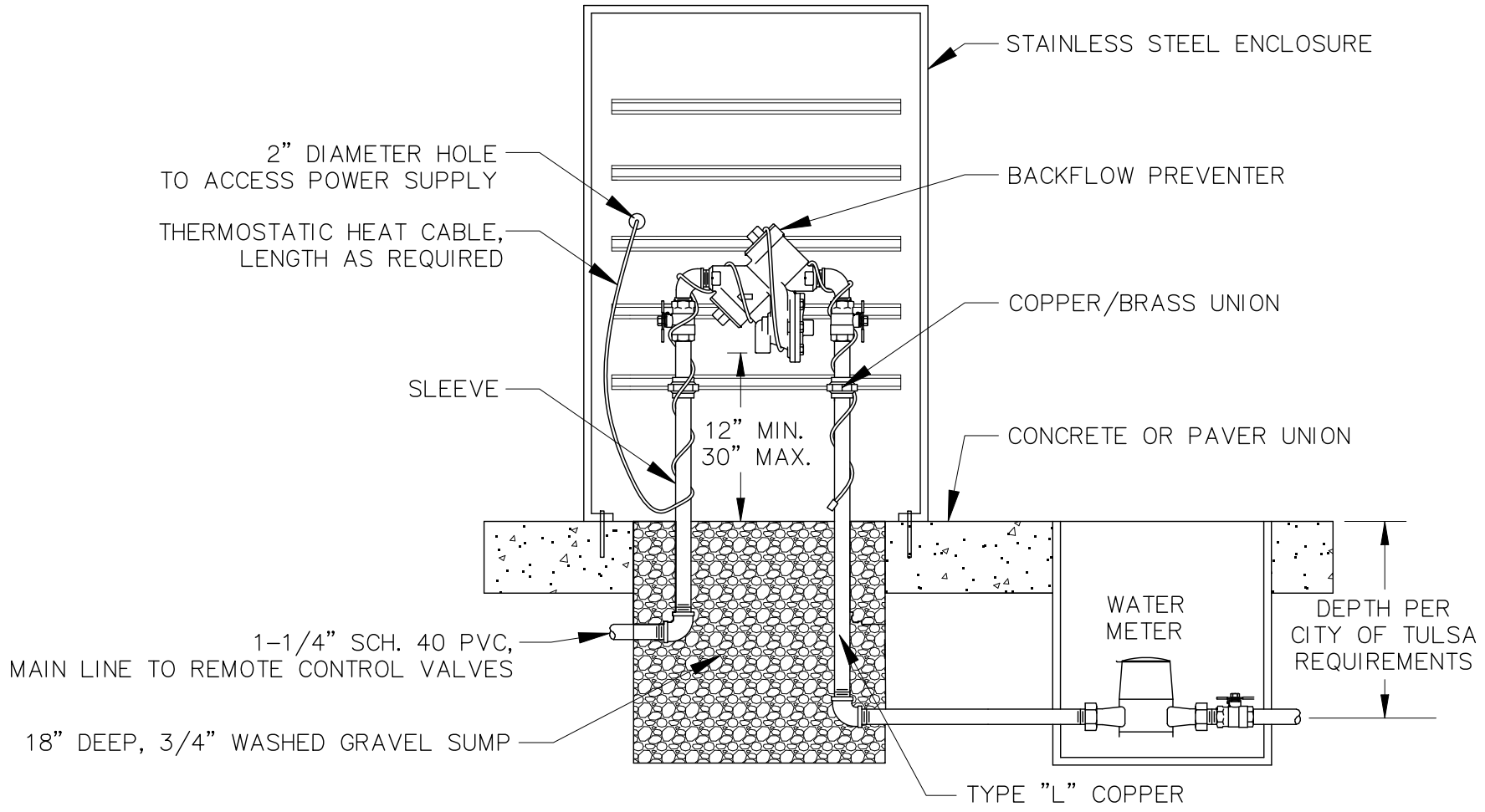


NOTE:

1. MATERIAL: 0.125" THICK 5052 ALUMINUM
2. FINISH: RAW ALUMINUM - NO PAINT
3. DOOR STOPS PROVIDED ON BOTTOM OF DOORS
4. 3 POINT LATCHES WITH STAINLESS STEEL PADLOCKABLE HANDLES
5. DOORS SEALED WITH 1/2" X 2" GASKET
6. EXTERIOR SEAMS CONTINUOUSLY WELDED

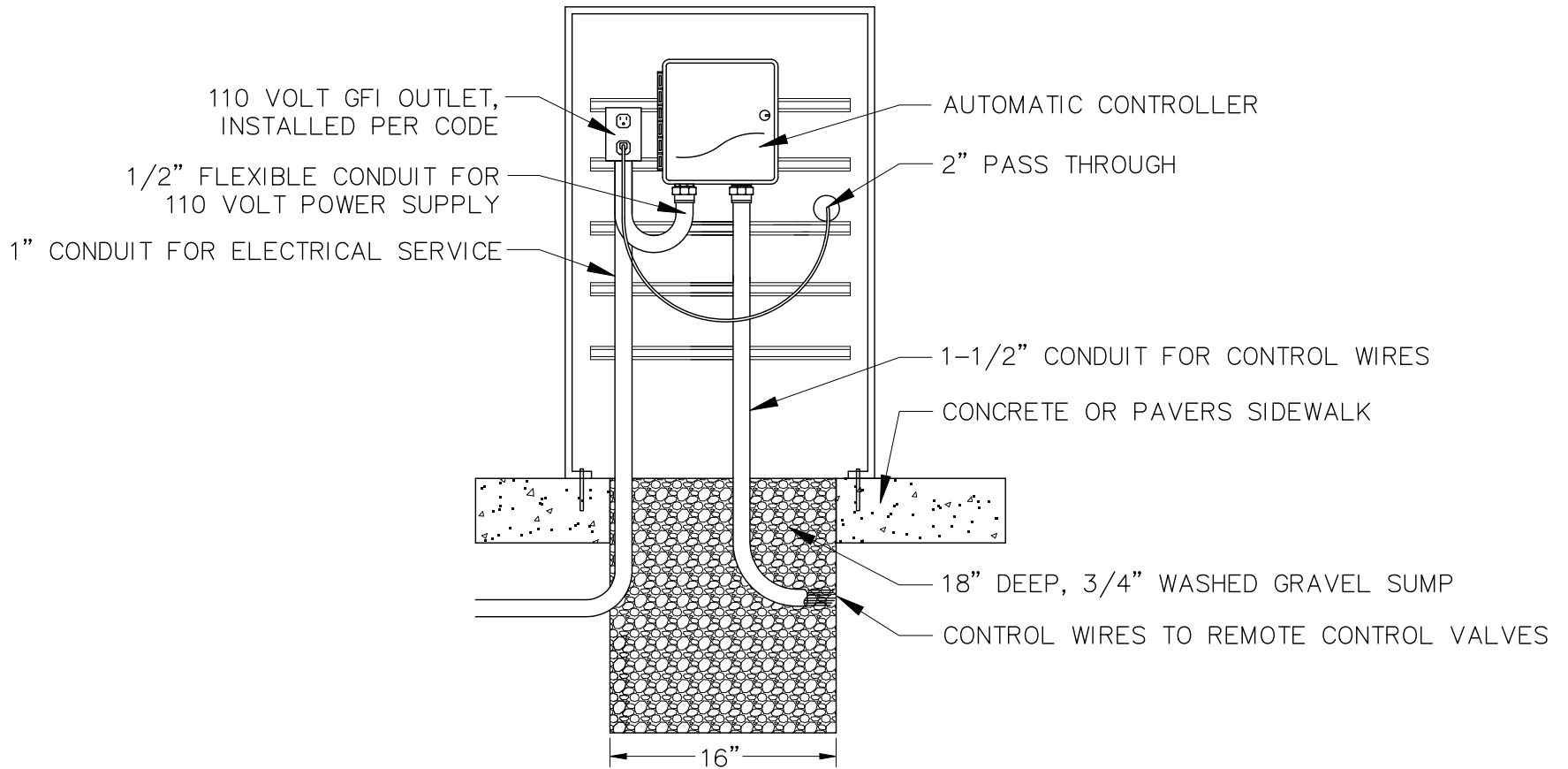
IRRIGATION ENCLOSURE	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W. CHECKED BY: DATE: NOVEMBER 2014	APPROVED
NOT TO SCALE	STANDARD NO. 840

PATH: \\e1\parts\std\DGN_std\841-BackflowPreventerInstallation.dgn SBW 12/03/2014



NOTE:
 1. SEE CONTROLLER INSTALLATION STANDARD DRAWING (STANDARD 842).
 2. BACKFLOW PREVENTER ENCLOSURE TO BE INSULATED WITH 1/2" MIN. FOAM INSULATION ON ALL INTERIOR SIDES AND DOORS.

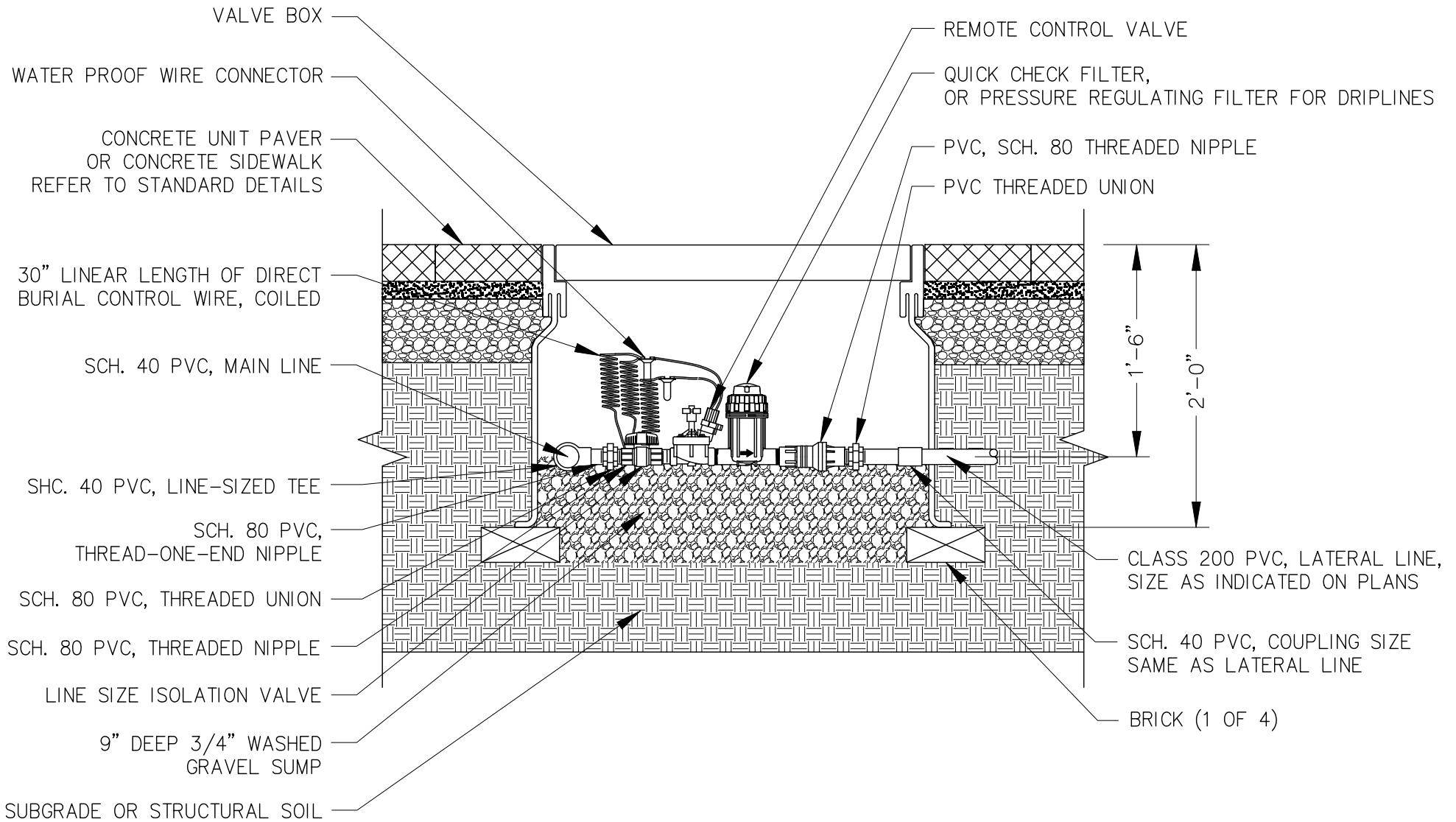
BACKFLOW PREVENTER INSTALLATION	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W. CHECKED BY: DATE: NOVEMBER 2014	APPROVED
NOT TO SCALE	STANDARD NO. 841



NOTE:
SEE BACKFLOW PREVENTER STANDARD DRAWING 841.

AUTOMATIC CONTROLLER INSTALLATION	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W.	APPROVED
CHECKED BY:	
DATE: NOVEMBER 2014	
NOT TO SCALE	STANDARD NO. 842

PATH: \\e1\parts\std\DGN_std\843-RemoteControlValveInstallation.dgn S.B.W. 12/11/2014



REMOTE CONTROL VALVE INSTALLATION

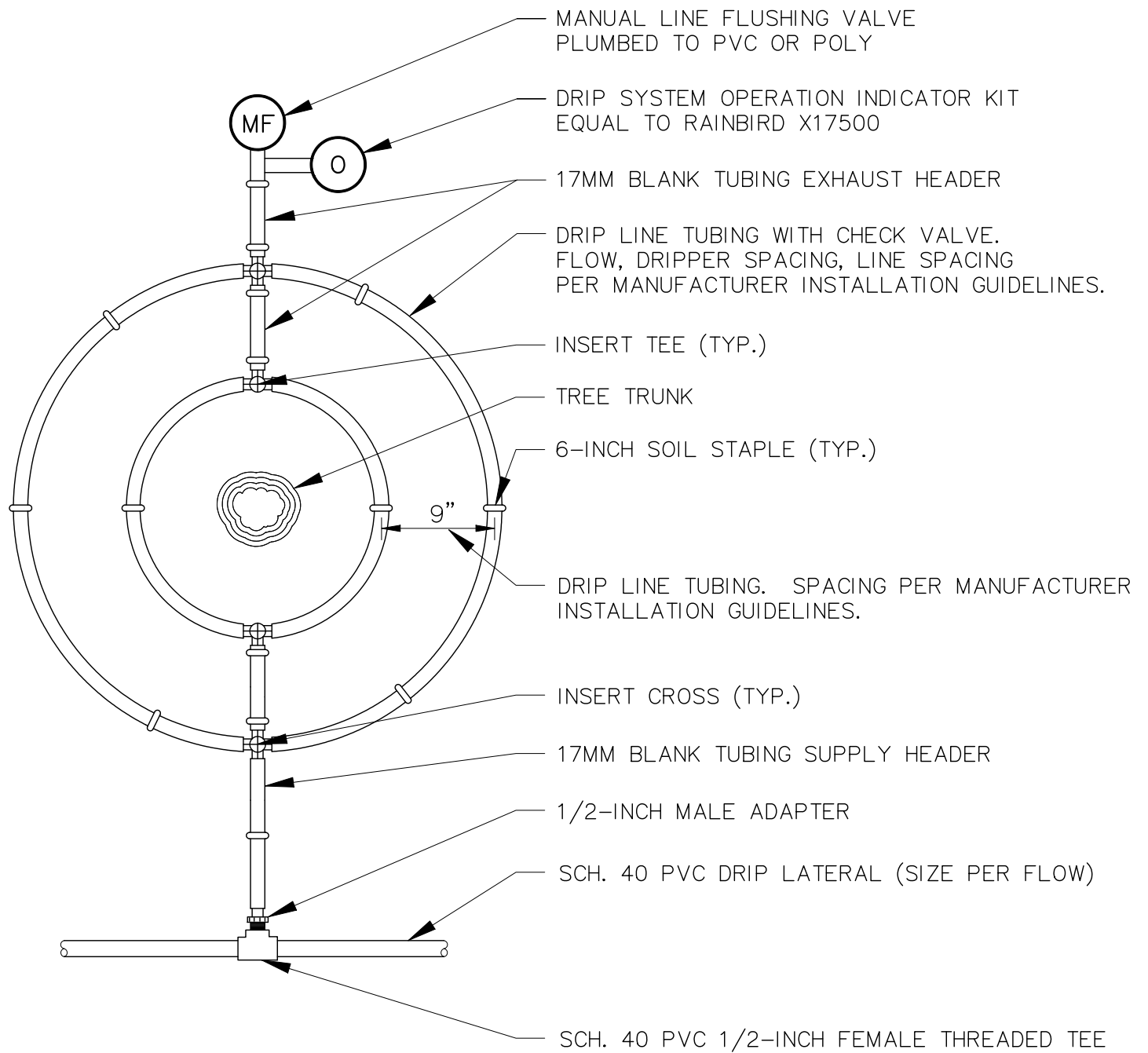
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

DRAWN BY: S.B.W.
CHECKED BY:
DATE: NOVEMBER 2014

APPROVED

NOT TO SCALE

STANDARD NO. 843

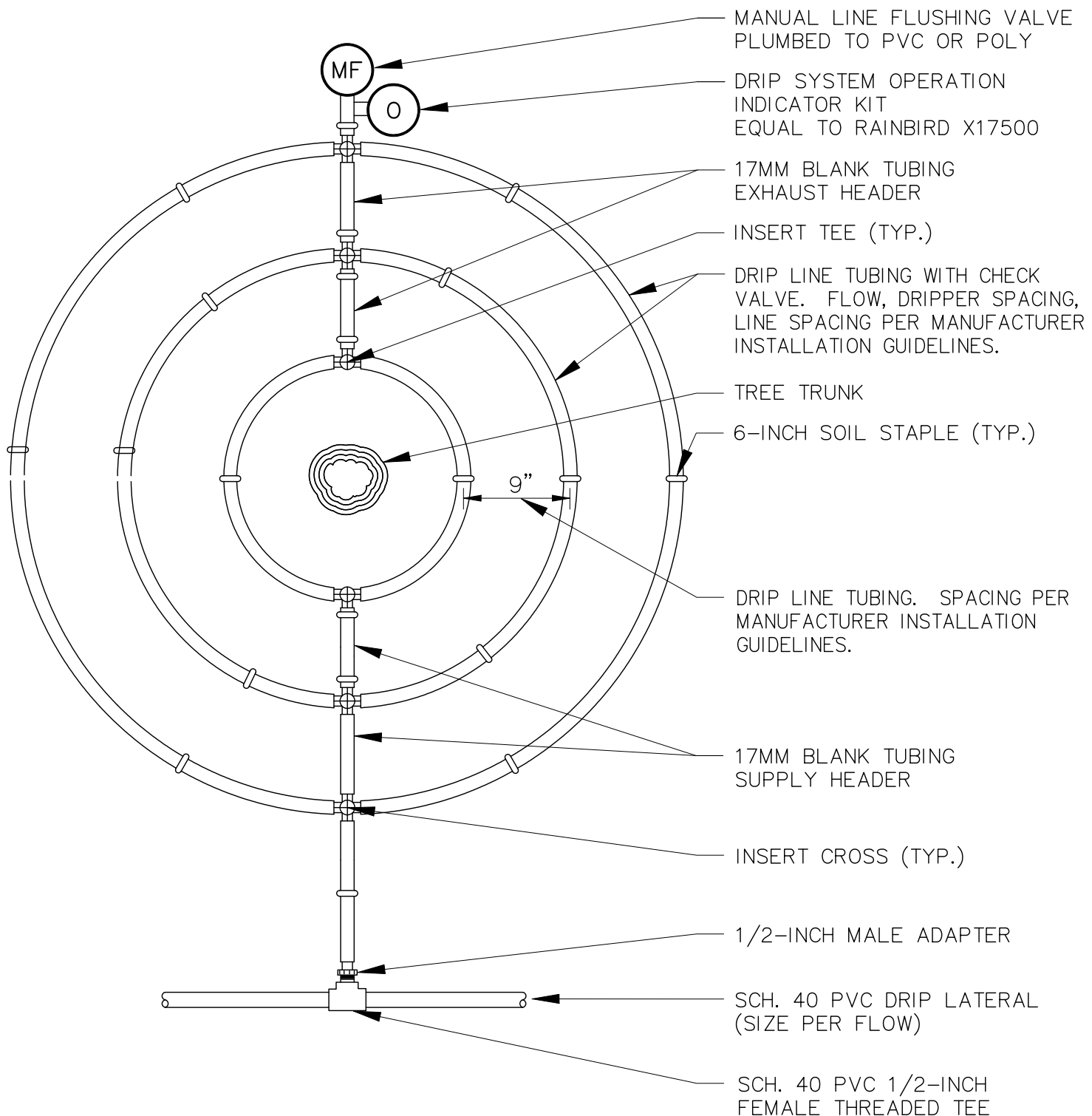


NOTE:

1. INSTALL FIRST DRIP LINE WITH CHECK VALVE LOOP 9-INCHES FROM CENTER OF TREE TRUNK. INSTALL EACH ADDITIONAL LOOP PER MANUFACTURER INSTALLATION GUIDELINES.
2. INSTALL DRIP LINE TUBING ON SOIL SURFACE BELOW PLANTING MULCH. STAPLE IN PLACE PER MANUFACTURER'S RECOMMENDATION, BACKFILL, AND SPREAD SURFACE TREATMENT AS DIRECTED BY OTHERS.
3. INSTALL DRIP LINE IN ACCORDANCE WITH MANUFACTURER INSTALLATION GUIDELINES.

DRIP LINE WITH CHECK VALVE TWO RING DETAIL	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W. CHECKED BY: DATE: NOVEMBER 2014	APPROVED
NOT TO SCALE	STANDARD NO. 844

PATH: \e1\parts\std\DGN_sids\845-TLVC-ThreeRingDetail.dgn SBW 12/04/2014

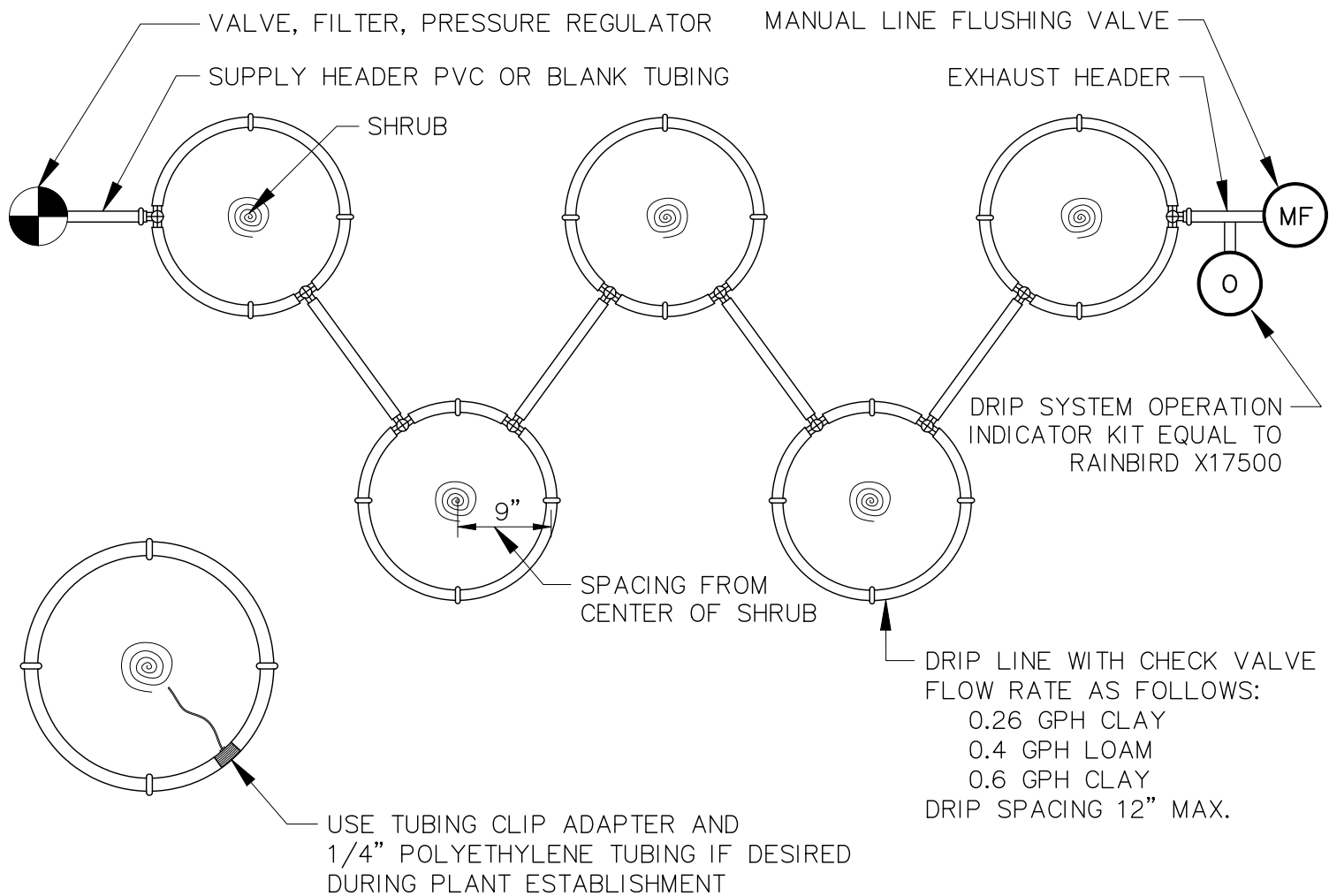


- MANUAL LINE FLUSHING VALVE PLUMBED TO PVC OR POLY
- DRIP SYSTEM OPERATION INDICATOR KIT EQUAL TO RAINBIRD X17500
- 17MM BLANK TUBING EXHAUST HEADER
- INSERT TEE (TYP.)
- DRIP LINE TUBING WITH CHECK VALVE. FLOW, DRIPPER SPACING, LINE SPACING PER MANUFACTURER INSTALLATION GUIDELINES.
- TREE TRUNK
- 6-INCH SOIL STAPLE (TYP.)
- DRIP LINE TUBING. SPACING PER MANUFACTURER INSTALLATION GUIDELINES.
- 17MM BLANK TUBING SUPPLY HEADER
- INSERT CROSS (TYP.)
- 1/2-INCH MALE ADAPTER
- SCH. 40 PVC DRIP LATERAL (SIZE PER FLOW)
- SCH. 40 PVC 1/2-INCH FEMALE THREADED TEE

NOTE:

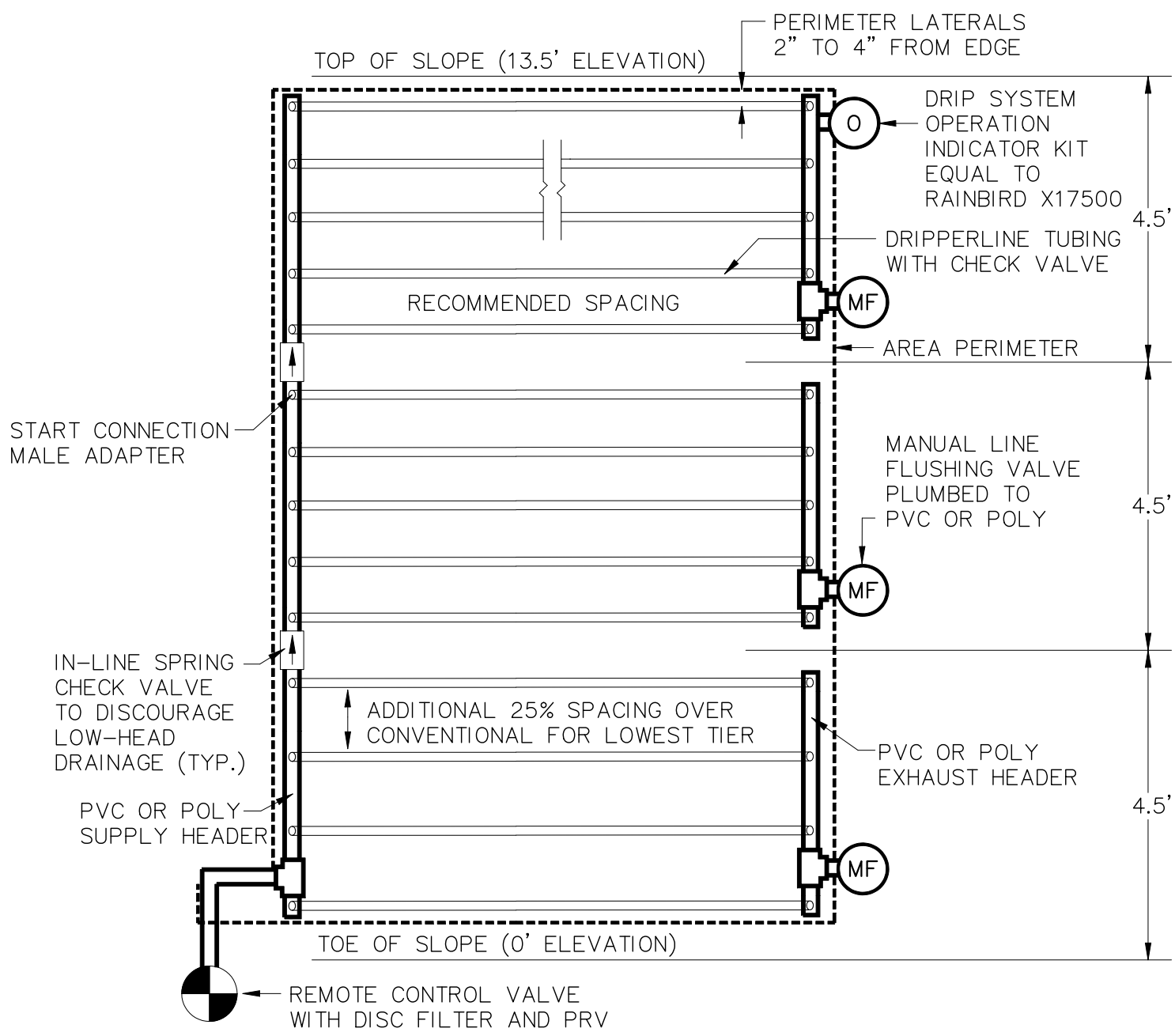
1. INSTALL FIRST DRIP LOOP 9-INCHES FROM CENTER OF TREE TRUNK. INSTALL EACH ADDITIONAL LOOP PER MANUFACTURER INSTALLATION GUIDELINES.
2. INSTALL DRIP LINE TUBING ON SURFACE TO A MAXIMUM OF 6-INCHES BELOW GRADE, STAPLE IN PLACE PER MANUFACTURER'S RECOMMENDATION, BACKFILL, AND SPREAD SURFACE TREATMENT AS DIRECTED BY OTHERS.
3. INSTALL DRIP LINE IN ACCORDANCE WITH MANUFACTURER INSTALLATION GUIDELINES.

DRIP LINE WITH CHECK VALVE THREE RING DETAIL	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W. CHECKED BY: DATE: NOVEMBER 2014	APPROVED
NOT TO SCALE	STANDARD NO. 845

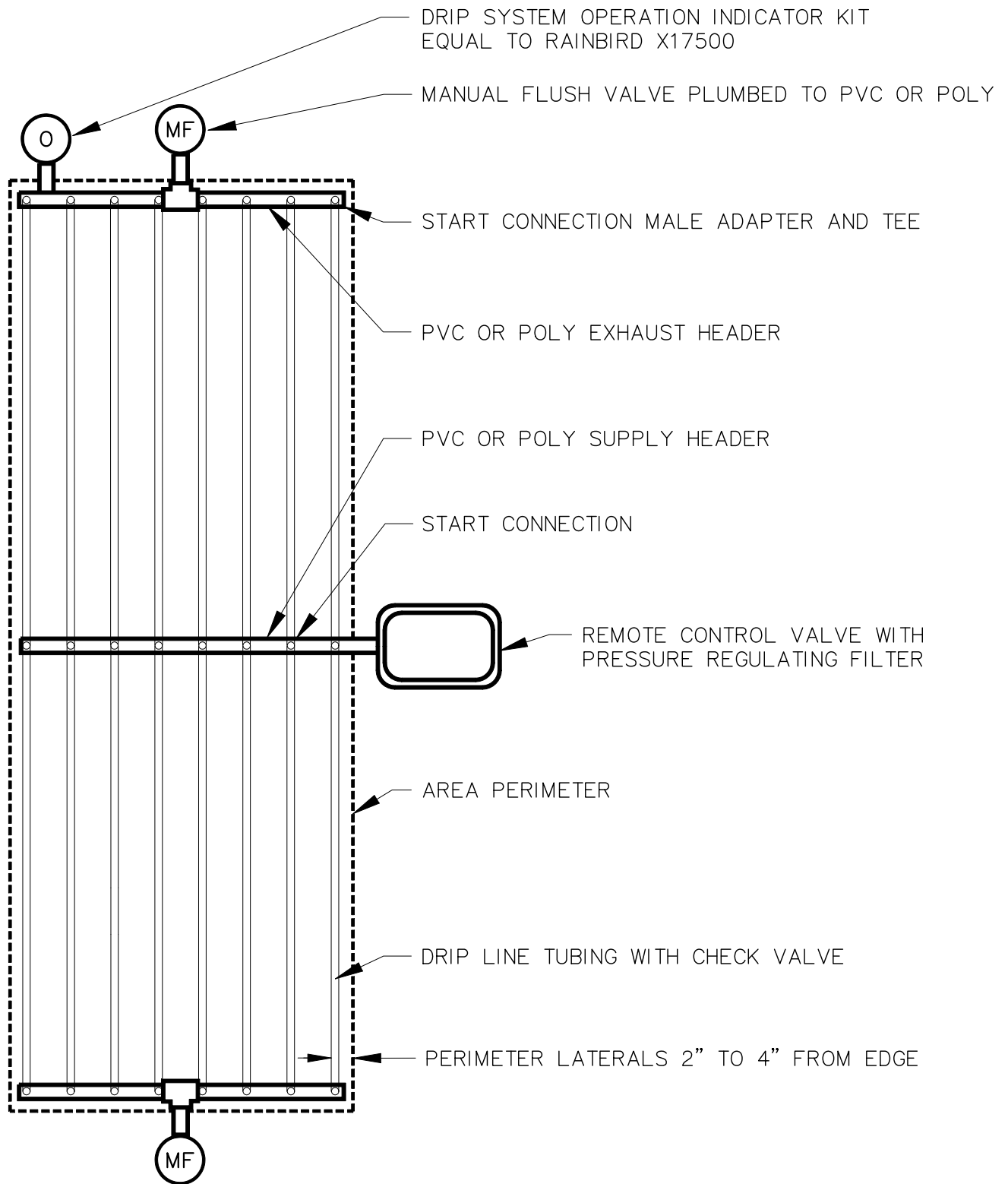


DRIP LINE WITH CHECK VALVE MULTIPLE SHRUB RING DETAIL	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W. CHECKED BY: DATE: NOVEMBER 2014	APPROVED
NOT TO SCALE	STANDARD NO. 846

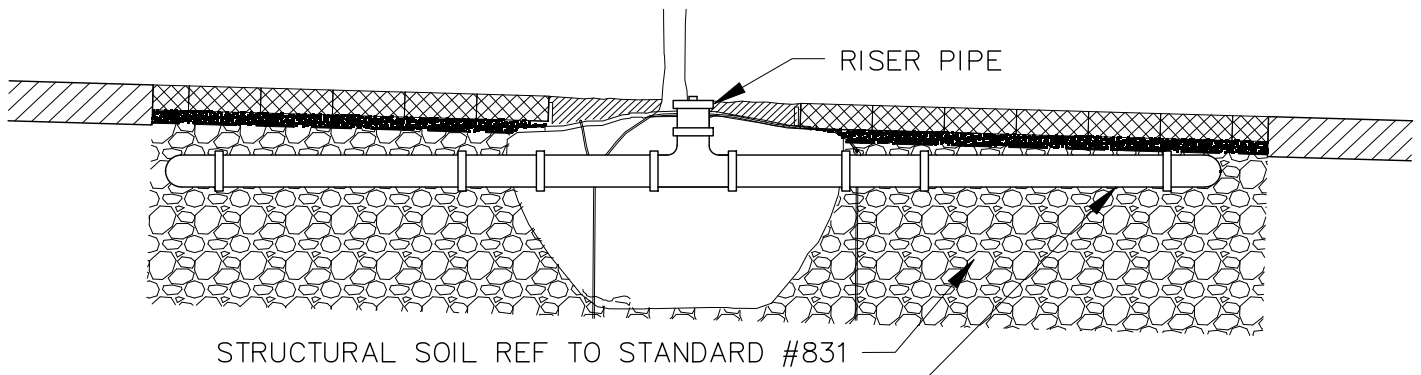
PATH: /e:/parts/std/DGN_stds/847-TL CV - SlopeLayout_1 Valve.dgn SBW 12/04/2014



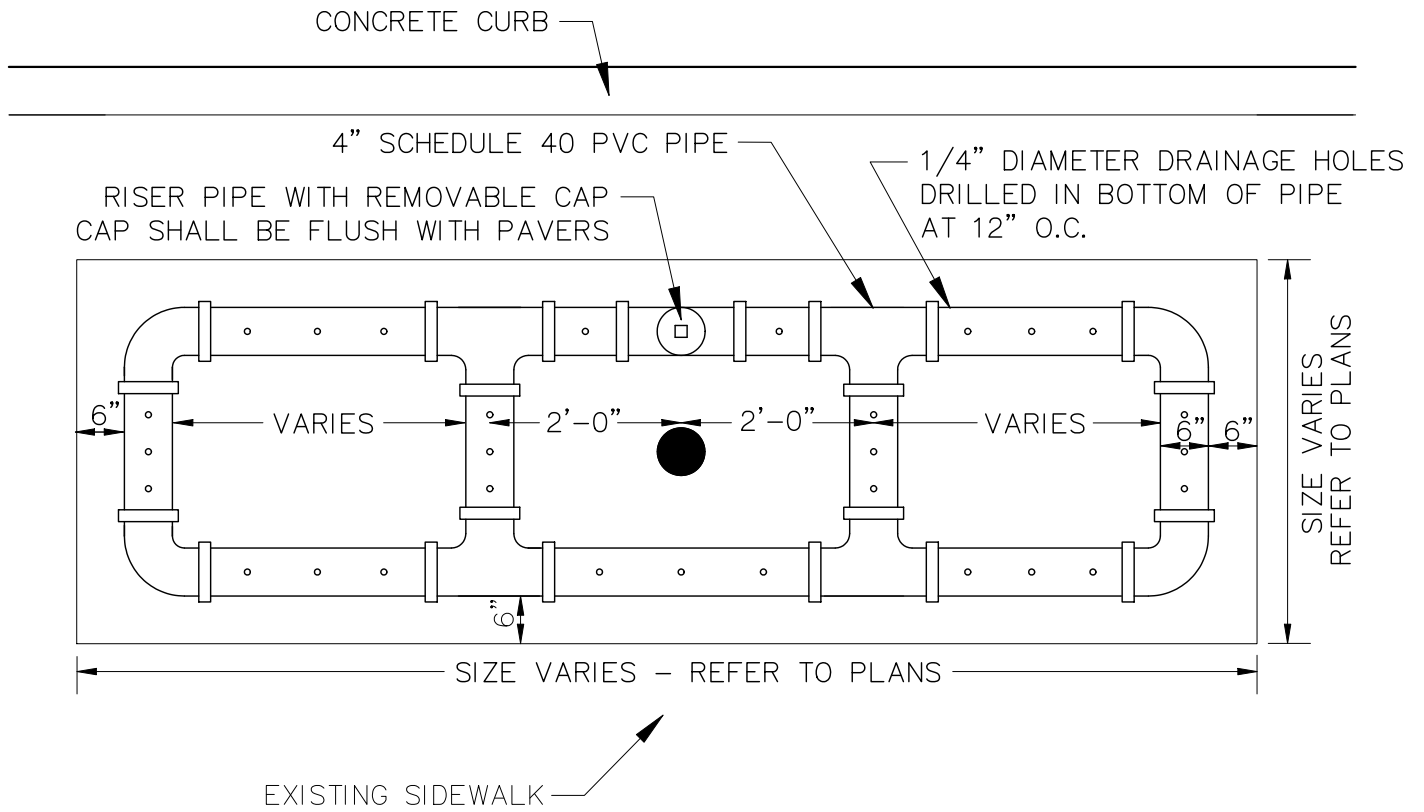
DRIP LINE WITH CHECK VALVE SLOPE LAYOUT, 1 VALVE	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W. CHECKED BY: DATE: NOVEMBER 2014	APPROVED
NOT TO SCALE	STANDARD NO. 847



DRIP LINE WITH CHECK VALVE CENTER FEED LAYOUT	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W. CHECKED BY: DATE: NOVEMBER 2014	APPROVED
NOT TO SCALE	STANDARD NO. 848

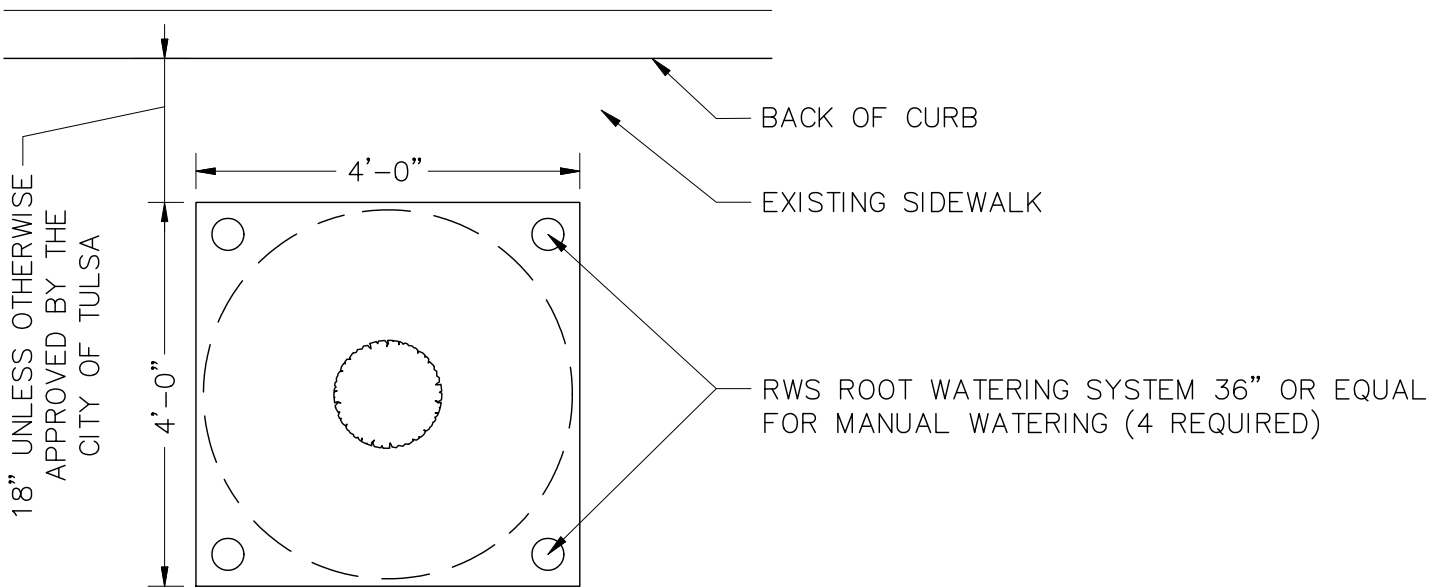
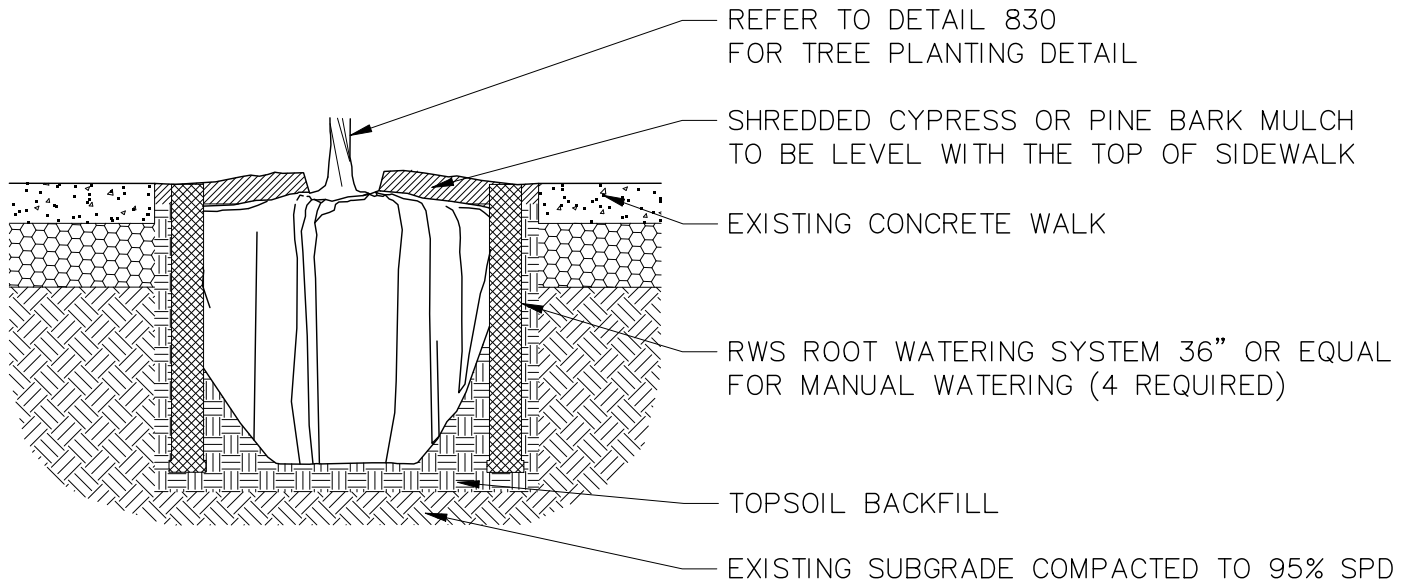


PIPE SHALL BE LEVEL, TOP OF PIPE SHALL BE SET DIRECTLY BELOW GEOTEXTILE SEPARATOR FABRIC AT LOWEST PAVEMENT ELEVATION WITHIN THE PLANTER



NOTE:
REFER TO PLANS FOR LOCATION OF PLANTER
IN RELATION TO CURB.

MANUAL TREE IRRIGATION	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W.	APPROVED
CHECKED BY:	
DATE: NOVEMBER 2014	
NOT TO SCALE	STANDARD NO. 849



MANUAL TREE IRRIGATION (VERTICAL)	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
DRAWN BY: S.B.W.	APPROVED
CHECKED BY:	
DATE: NOVEMBER 2014	
NOT TO SCALE	STANDARD NO. 850