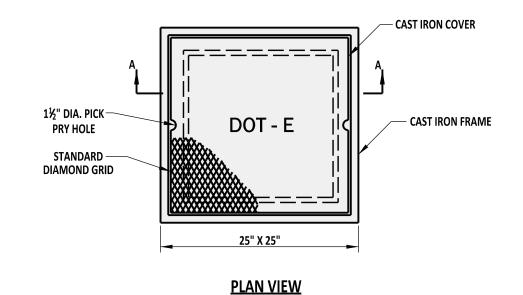
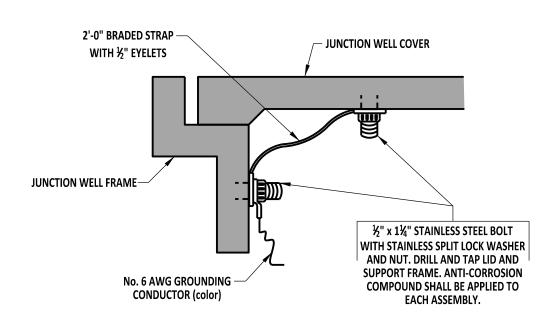


# **SECTION A-A**

- 1). TYPE 1 CONDUIT JUNCTION WELL SHALL BE PRECAST CONCRETE. AT LEAST ONE HOLE IN PRECAST WELLS WILL BE OF A 5" DIAMETER COMPLETELY THROUGH THE WALL. UNUSED HOLES SHALL BE PLUGGED.
- 2). TYPES 2 AND 3 CONDUIT JUNCTION WELLS SHALL BE BRICK AND WILL CONFORM TO STANDARD SPECIFICATIONS FOR BRICK MASONRY. JOINTS SHALL BE CONCAVE TYPE. TYPE 2 WALLS WILL BE A NOMINAL 4" THICK. TYPE 3 WALL WILL BE A NOMINAL 8" THICK.
- 3). JUNCTION WELLS SHALL NOT BE PLACED UNDER ANY TYPE OF PAVEMENT.
- 4). ALL CONDUIT JUNCTION WELLS SHALL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM CONDUIT JUNCTION WELL.
- 5). ALL CRACKS, GAPS, OR OPENINGS IN JUNCTION WELL WALL SHALL BE SEALED WITH CONCRETE.

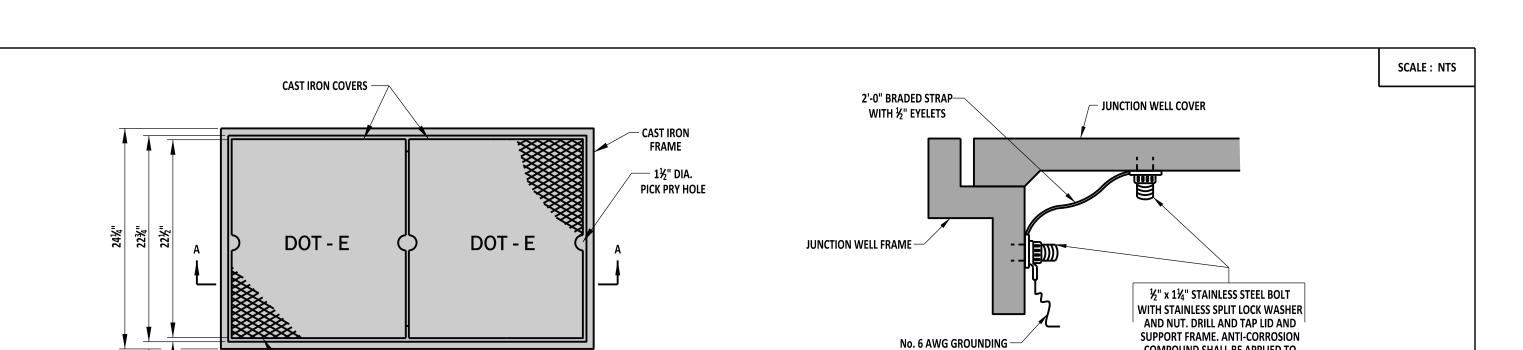




**DETAIL "A"** 



COI	NDUIT JUNCTION V	VELL, TY	APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	01/07/2013 DATE			
STANDARD NO.	T-1 (2012)	SHT.	1	OF	3	RECOMMENDED	SIGNATURE ON FILE DESIGN ENGINEER	12/20/2012

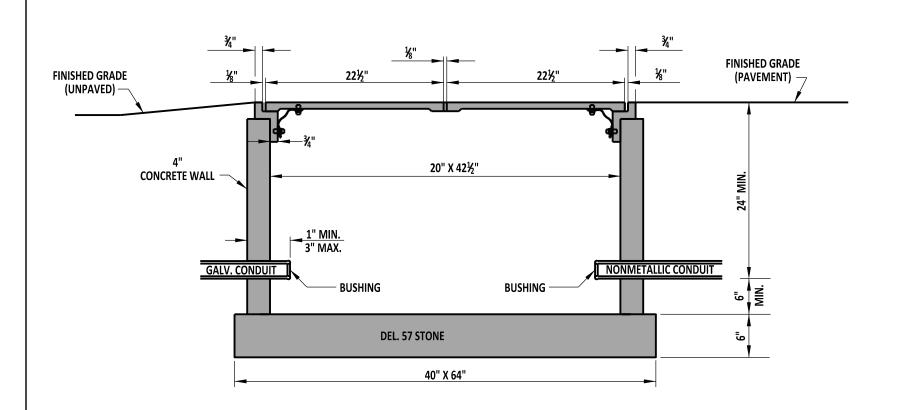


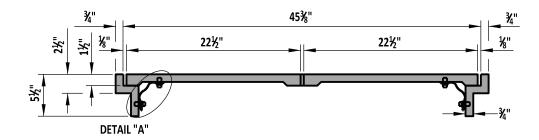
**PLAN VIEW** 

46%"

STANDARD

DIAMOND GRID





DETAIL "A"

**SECTION A-A** 

COMPOUND SHALL BE APPLIED TO

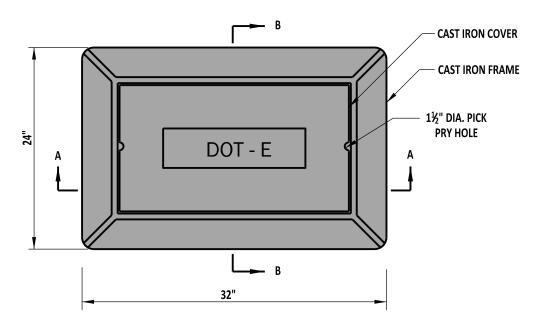
EACH ASSEMBLY.

# NOTES:

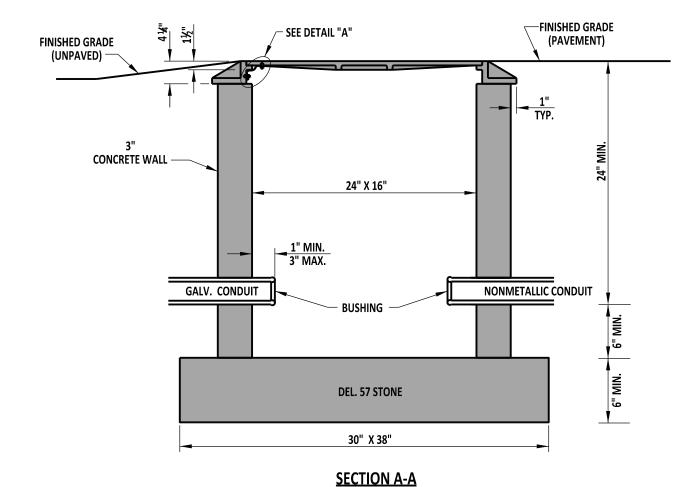
CONDUCTOR (color)

- 1). TYPE 4 CONDUIT JUNCTION WELL SHALL BE PRECAST CONCRETE. AT LEAST ONE HOLE IN PRECAST WELLS WILL BE OF A 5" DIAMETER COMPLETELY THROUGH THE WALL. UNUSED HOLES SHALL BE PLUGGED.
- 2). ALL CONDUIT JUNCTION WELLS CONSTRUCTED SHALL BEWITHIN CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM CONDUIT JUNCTION WELL.
- 3). ALL CRACKS, GAPS, OR OPENINGS IN JUNCTION WELL WALL SHALL BE SEALED WITH CONCRETE.

DELAWARE		CONDUIT JUNCTI	ON WEL	L, TYPE 4			APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	01/07/2013 DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	T-1 (2012)	SHT.	2	OF	3	RECOMMENDED	SIGNATURE ON FILE DESIGN ENGINEER	12/20/2012 DATE

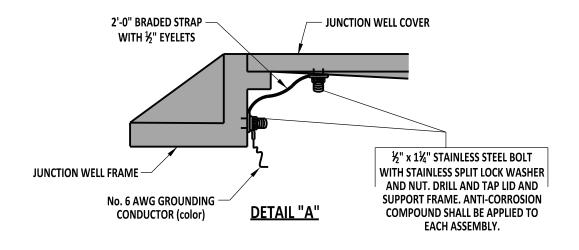


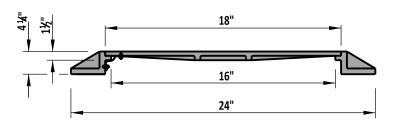
# **PLAN VIEW**



- 1). TYPE 5 CONDUIT JUNCTION WELL SHALL BE PRECAST CONCRETE. AT LEAST ONE HOLE IN PRECAST WELLS WILL BE OF A 5" DIAMETER COMPLETELY THROUGH THE WALL. UNUSED HOLES SHALL BE PLUGGED.
- 2). ALL CONDUIT JUNCTION WELLS CONSTRUCTED SHALL BEWITHIN CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM CONDUIT JUNCTION WELL.

  3). ALL CRACKS, GAPS, OR OPENINGS IN JUNCTION WELL WALL SHALL BE SEALED WITH CONCRETE.

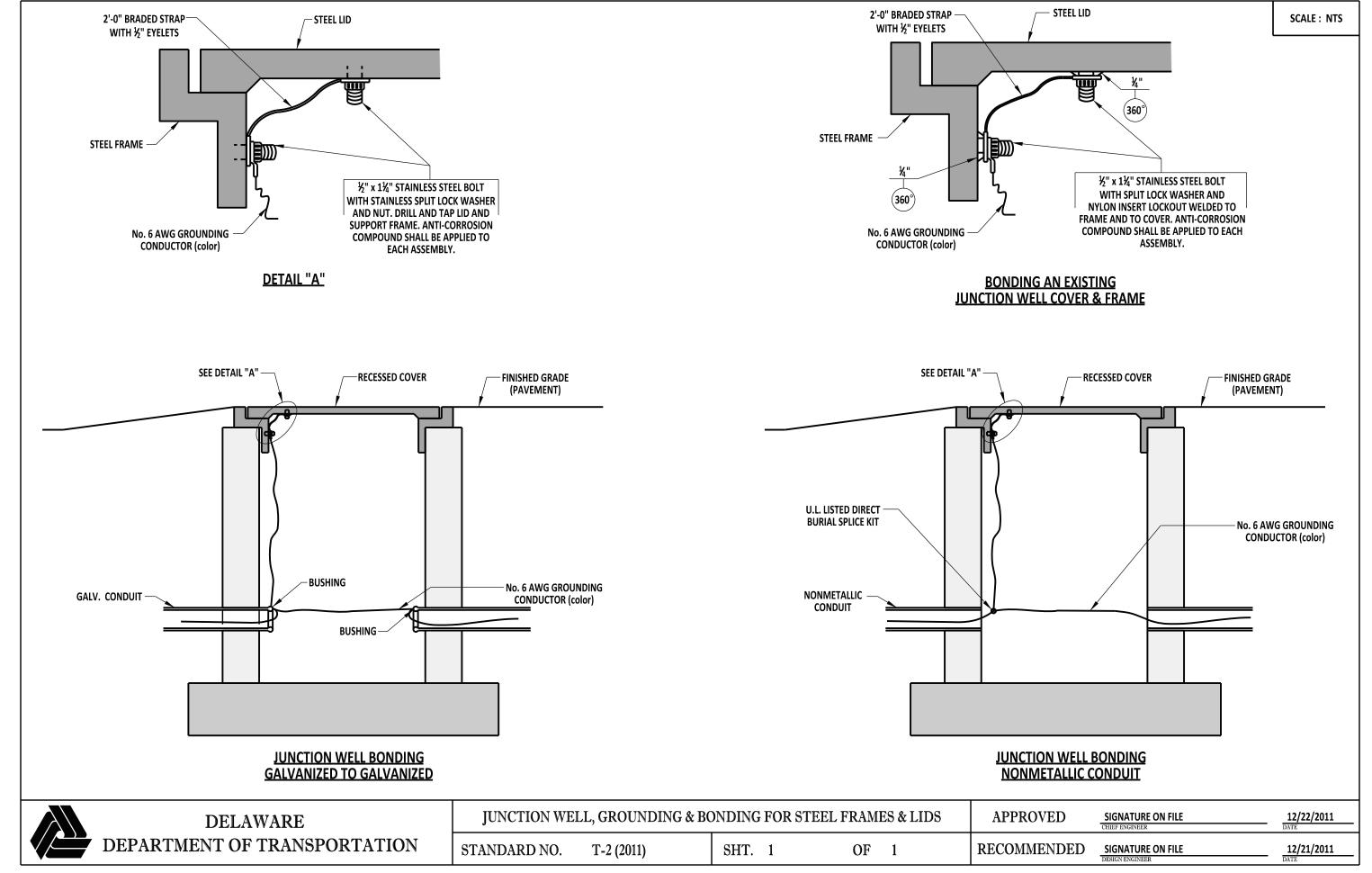


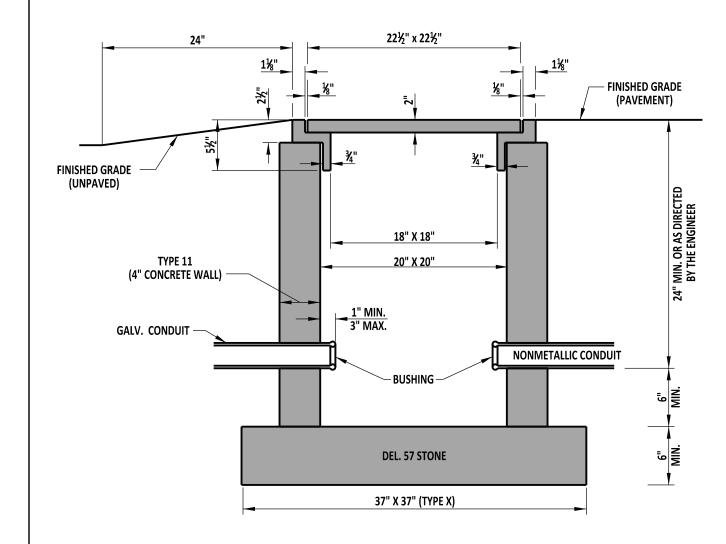


**SECTION B-B** 

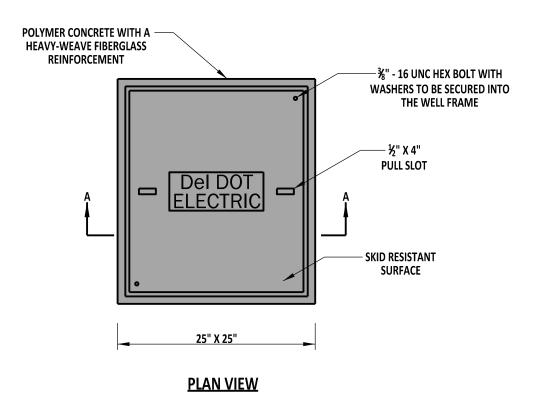
DELAWARE
DEPARTMENT OF TRANSPORTATION

	CONDUIT JUNCTI	ON WEL	L, TYPE 5			APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	01/07/2013 DATE
STANDARD NO.	T-1 (2012)	SHT.	3	OF	3	RECOMMENDED	SIGNATURE ON FILE	12/20/2012



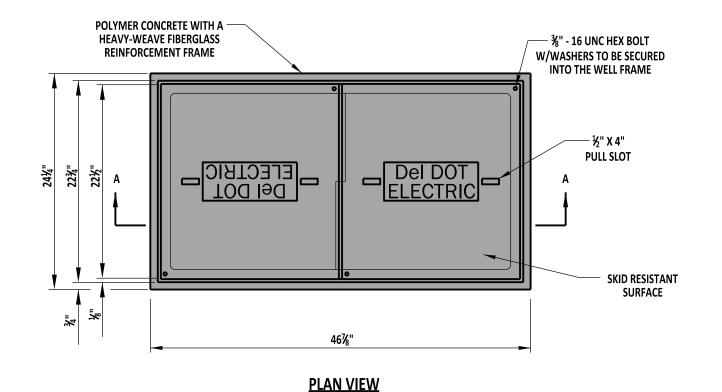


**SECTION A-A** 

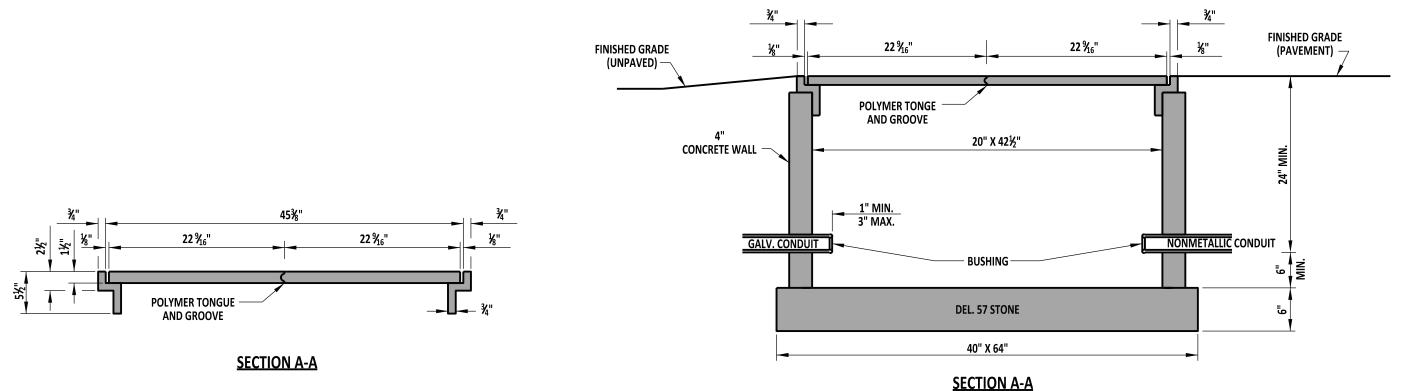


- TYPE 11 CONDUIT JUNCTION WELL LID SHALL BE PRECAST POLYMER CONCRETE WITH A HEAVY-WEAVE FIBERGLASS FRAME. INSTALLED ON A PRECAST CONCRETE WELL.
   TYPE 11 CONDUIT JUNCTION WELL BODY SHALL BE PRECAST CONCRETE. AT LEAST ONE HOLE IN PRECAST WELLS WILL BE OF A 5" DIAMETER COMPLETELY THROUGH THE WALL. UNUSED HOLES SHALL BE PLUGGED.
- 3). TYPE 11 CONDUIT JUNCTION WELLS SHALL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM THE CONDUIT JUNCTION WELL.
- 4). ALL CRACKS, GAPS, OR OPENING IN JUNCTION WELL WALL SHALL BE SEALED WITH CONCRETE.

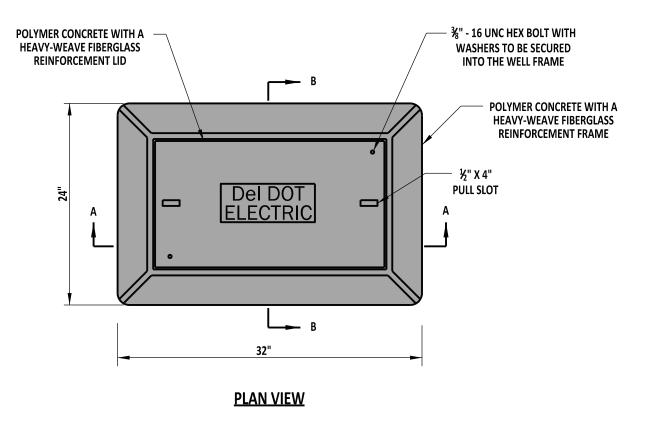
DELAWARE		CONDUIT JUNCTI	ON WELL, TYI	PE 11		APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	01/07/2013 DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	T-3 (2012)	SHT. 1	OF	3	RECOMMENDED	SIGNATURE ON FILE DESIGN ENGINEER	12/20/2012 DATE



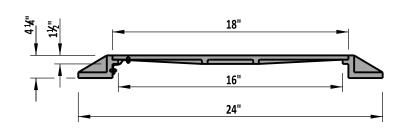
- 1). TYPE 14 CONDUIT JUNCTION WELL LID SHALL BE PRECAST POLYMER CONCRETE WITH A HEAVY-WEAVE FIBERGLASS FRAME. INSTALLED ON A PRECAST CONCRETE WELL.
- TYPE 14 CONDUIT JUNCTION WELL BODY SHALL BE PRECAST CONCRETE. AT LEAST ONE HOLE IN PRECAST WELLS WILL BE OF A 5" DIAMETER COMPLETELY THROUGH THE WALL. UNUSED HOLES SHALL BE PLUGGED.
   TYPE 14 CONDUIT JUNCTION WELLS SHALL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME.
- 3). TYPE 14 CONDUIT JUNCTION WELLS SHALL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM THE CONDUIT JUNCTION WELL.
- 4). ALL CRACKS, GAPS, OR OPENINGS IN JUNCTION WELL WALL SHALL BE SEALED WITH CONCRETE.



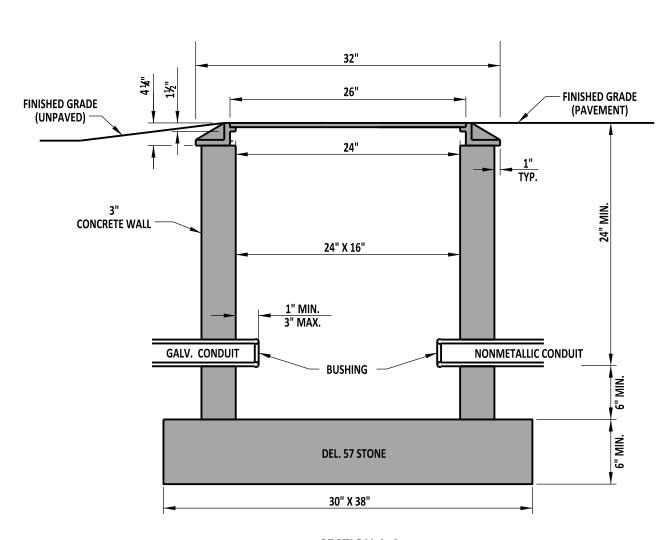
DELAWARE		CONDUIT JUNCTI	ON WELI	L, TYPE 14			APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	01/07/2013 DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	T-3 (2012)	SHT.	2	OF	3	RECOMMENDED	SIGNATURE ON FILE DESIGN ENGINEER	12/20/2012 DATE



- TYPE 15 CONDUIT JUNCTION WELL LID SHALL BE PRECAST POLYMER CONCRETE WITH A HEAVY-WEAVE FIBERGLASS FRAME. INSTALLED ON A PRECAST CONCRETE WELL.
   TYPE 15 CONDUIT JUNCTION WELL BODY SHALL BE PRECAST CONCRETE. AT LEAST ONE HOLE IN PRECAST WELLS WILL BE OF A 5" DIAMETER COMPLETELY THROUGH THE WALL. UNUSED HOLES SHALL BE PLUGGED.
- 3). TYPE 15 CONDUIT JUNCTION WELLS SHALL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM THE CONDUIT JUNCTION WELL.
- 4). ALL CRACKS, GAPS, OR OPENINGS IN JUNCTION WELL WALL SHALL BE SEALED WITH CONCRETE.

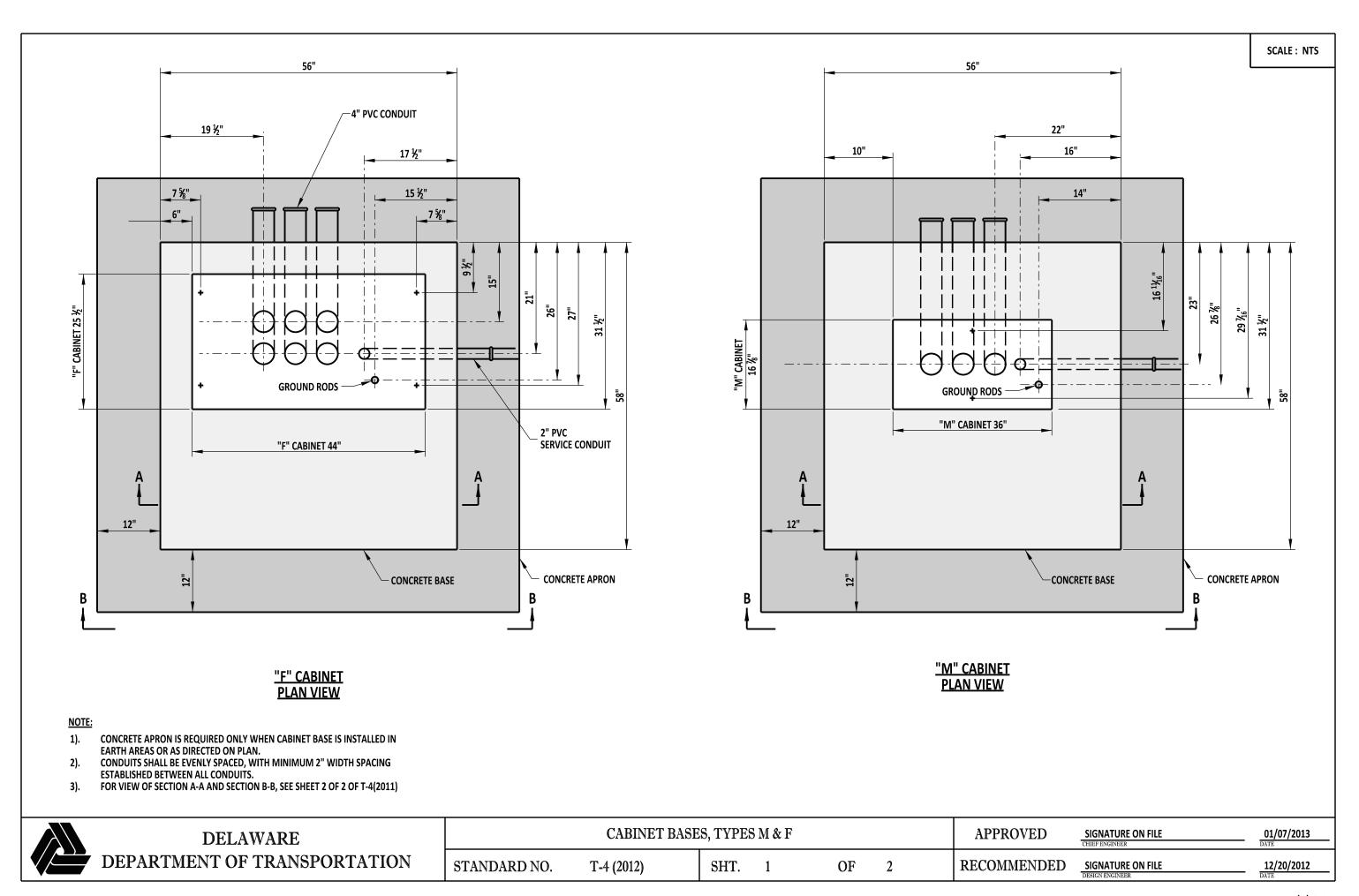


# **SECTION B-B**

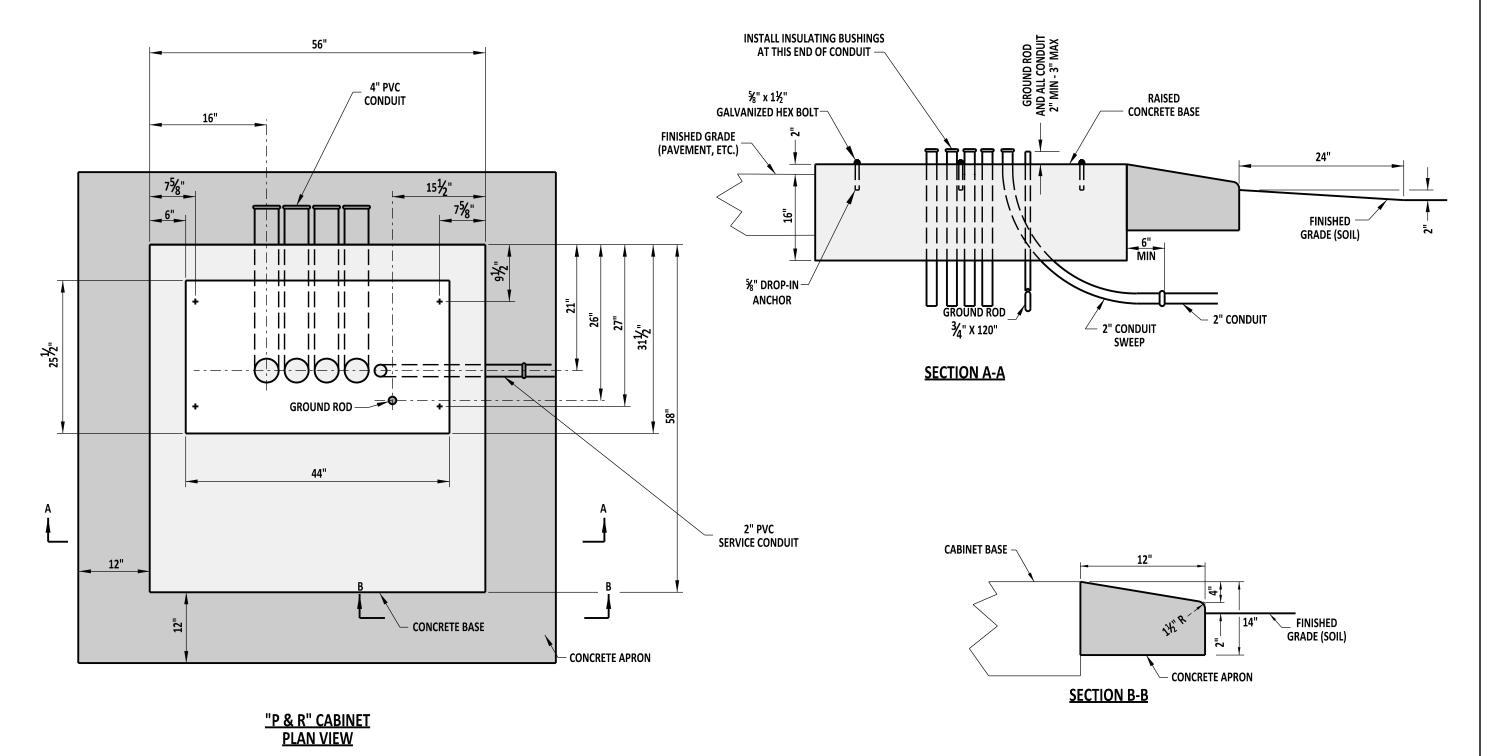


# **SECTION A-A**

DELAWARE		CONDUIT JUNCTI	ON WEL	L, TYPE 15			APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	01/07/2013 DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	T-3 (2012)	SHT.	3	OF	3	RECOMMENDED	SIGNATURE ON FILE DESIGN ENGINEER	12/20/2012 DATE

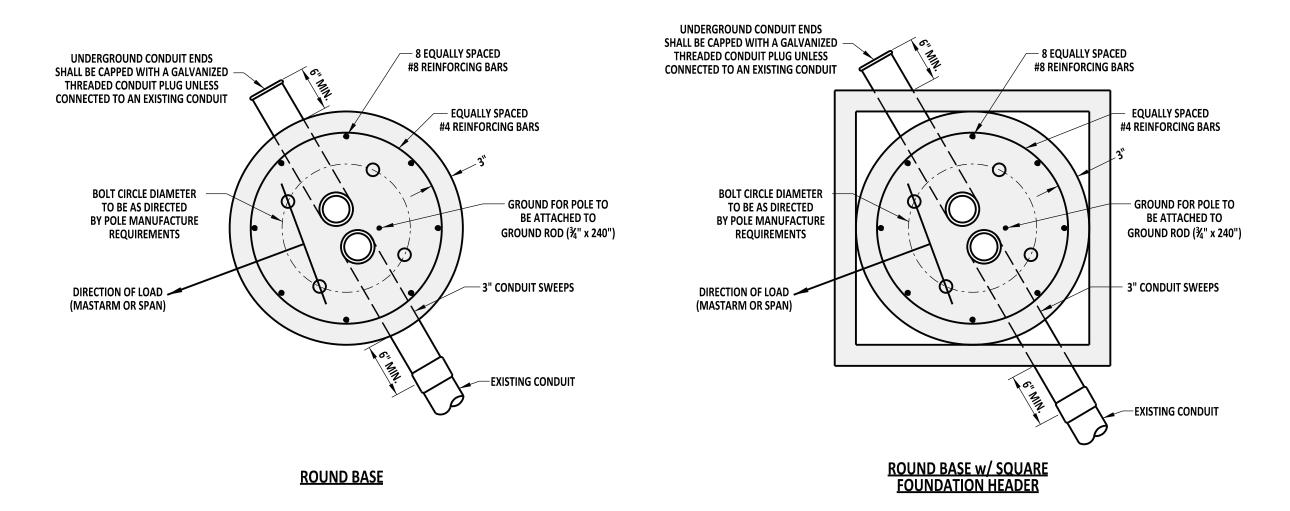






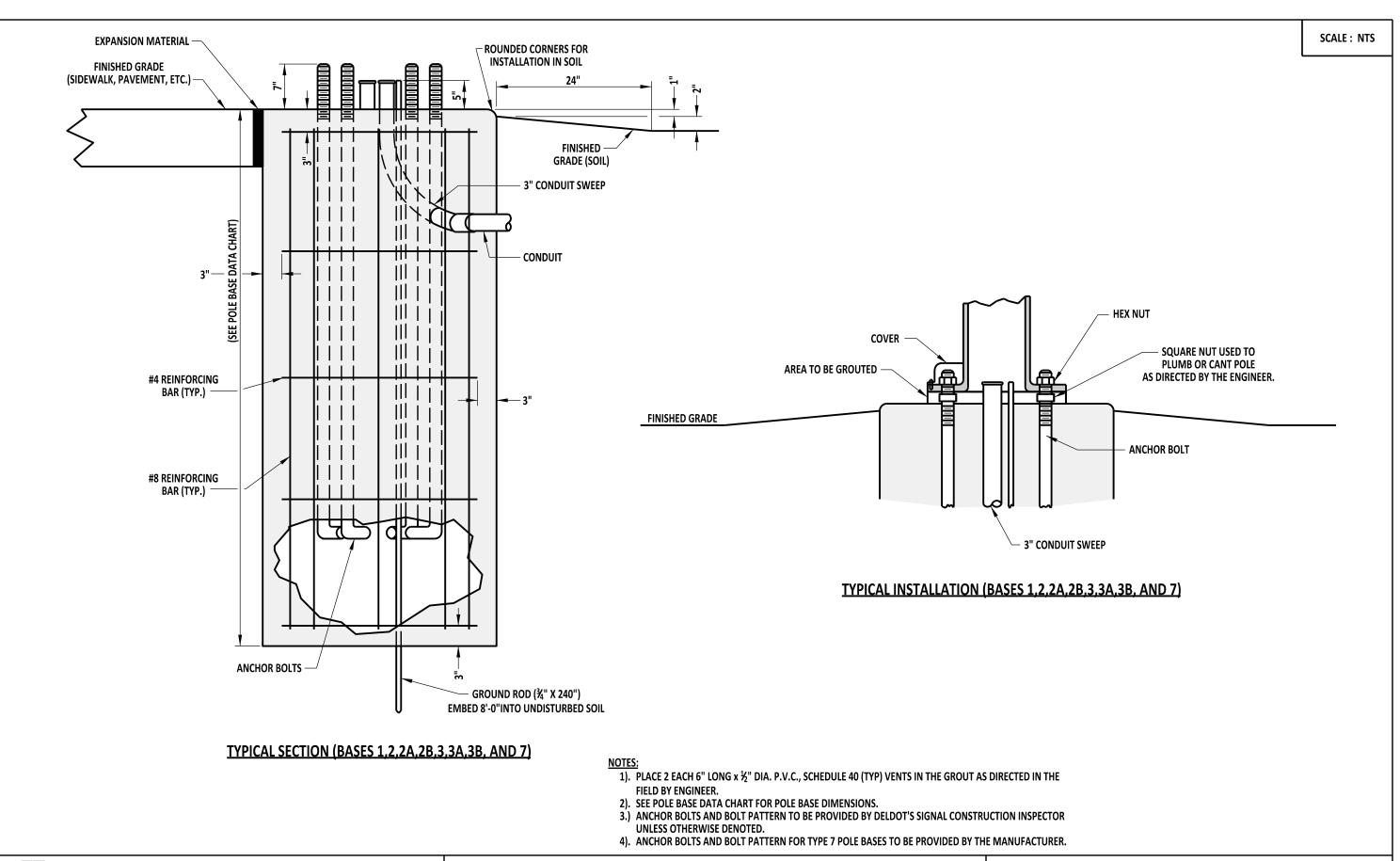
- CONCRETE APRON IS REQUIRED ONLY WHEN CABINET BASE IS INSTALLED IN EARTH AREAS OR AS DIRECTED ON PLAN.
   CONDUITS SHALL BE EVENLY SPACED, WITH MINIMUM 2" WIDTH ESTABLISHED BETWEEN ALL CONDUITS.

DELAWARE		CABINET BASI	ES, TYPE	SP&R			APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	01/07/2013 DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	T-4 (2012)	SHT.	2	OF	2	RECOMMENDED	SIGNATURE ON FILE DESIGN ENGINEER	12/20/2012 DATE

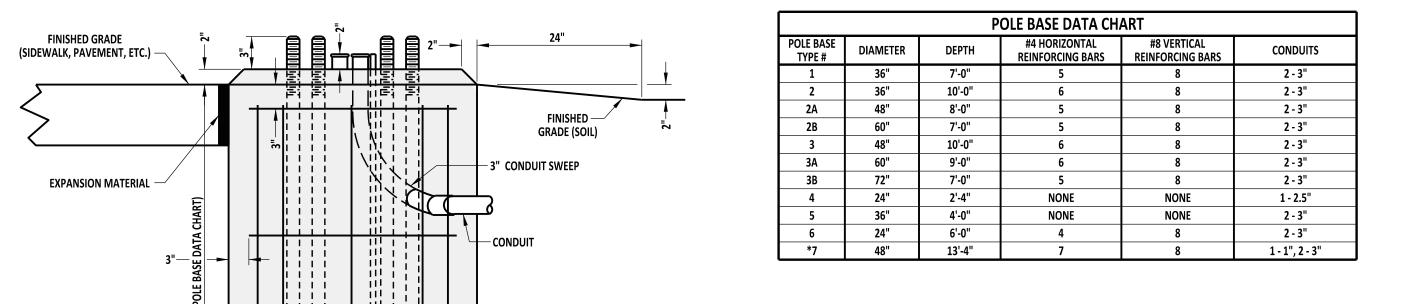


NOTE:
SQUARE FOUNDATION HEADER SHALL HAVE A 6" MINIMUM DEPTH.

DELAWARE		FULE	BASES				APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	01/07/2013 DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	T-5 (2012)	SHT.	1	OF	4	RECOMMENDED	SIGNATURE ON FILE DESIGN ENGINEER	12/20/2012 DATE



DELAWARE		POLE	BASES				APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	01/07/2013 DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	T-5 (2012)	SHT.	2	OF	4	RECOMMENDED	SIGNATURE ON FILE DESIGN ENGINEER	12/20/2012 DATE



副 盟

**TYPICAL SECTION (BASES 5 AND 6)** 

GROUND ROD (¾" x 240")

#4 REINFORCING BAR (TYP.)

#8 REINFORCING

BAR (TYP.)

ANCHOR BOLTS —

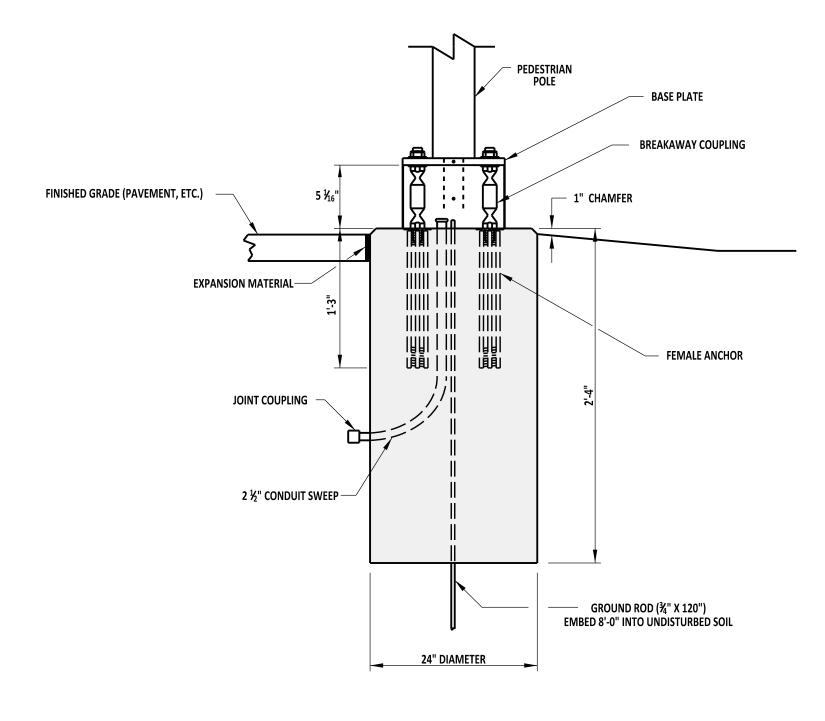
(SEE NOTE)

**EXPANSION MATERIAL** 24" **FINISHED GRADE** (SIDEWALK, PAVEMENT, ETC.) FINISHED -**GRADE (SOIL)** - 3" CONDUIT SWEEP 1" CONDUIT GROUND ROD (¾ " x 96") **EMBED INTO UNDISTURBED SOIL** - CONDUIT 3" → - EMBED 8'-0" INTO UNDISTURBED SOIL #4 REINFORCING BAR (TYP.)

**TYPE 7 GROUND ROD TYPICAL** 

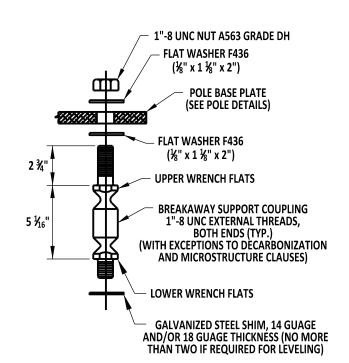
ANCHOR BOLTS AND BOLT PATTERN FOR TYPES 5, 6, & 7 POLE BASES TO BE PROVIDED BY THE MANUFACTURER.

POLE BASES **APPROVED** SIGNATURE ON FILE CHIEF ENGINEER 01/07/2013 DATE **DELAWARE** DEPARTMENT OF TRANSPORTATION 12/20/2012 DATE STANDARD NO. T-5 (2012) SHT. 3 OF RECOMMENDED SIGNATURE ON FILE

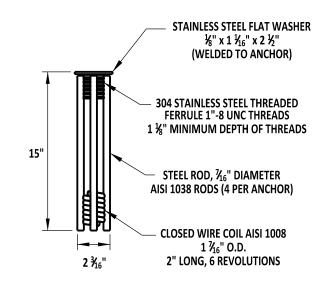


# TYPICAL SECTION (BASE 4)

NOTES:
ANCHOR BOLTS AND BOLT PATTERN TO BE PROVIDED BY DELDOT'S SIGNAL CONSTRUCTION INSPECTOR.

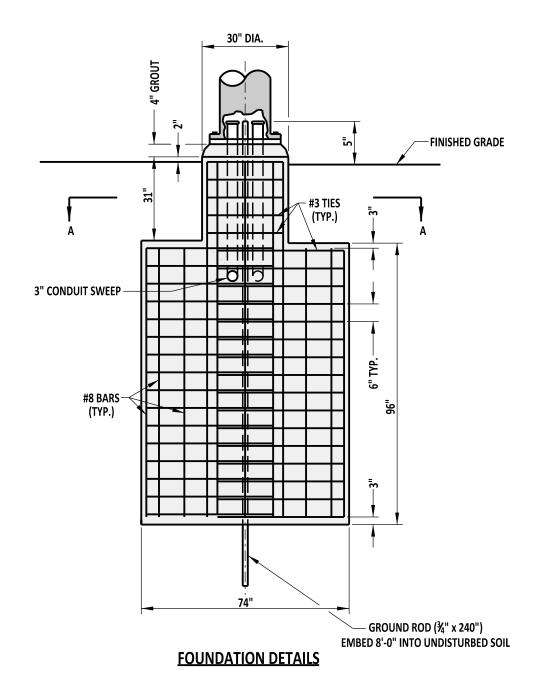


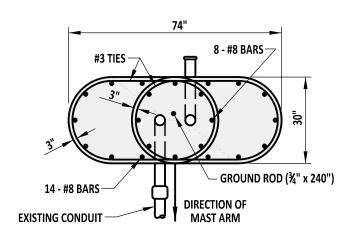
# **BREAKAWAY COUPLING DETAIL**



# **ANCHOR DETAIL**

DELAWARE			BASES				APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	01/07/2013
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	T-5 (2012)	SHT.	4	OF	4	RECOMMENDED	SIGNATURE ON FILE DESIGN ENGINEER	12/20/2012 DATE



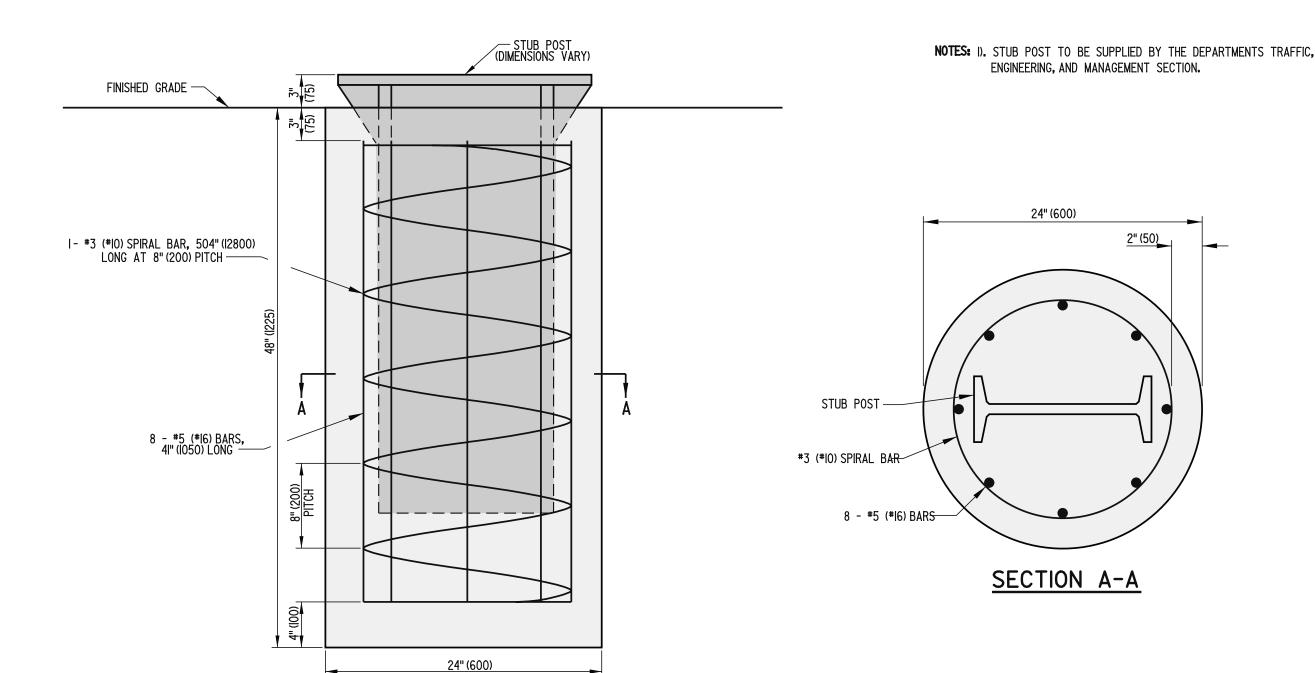


# **SECTION A-A**

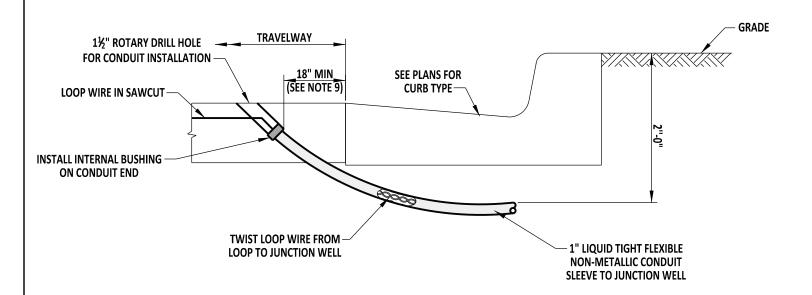
- 1). UNDERGROUND CONDUIT ENDS SHALL BE CAPPED WITH A GALVANIZED THREADED CONDUIT PLUG UNLESS CONNECTED TO AN EXISTING CONDUIT.
- 2). PLACE 2 EACH 6" x ½" P.V.C., SCHEDULE 40 (TYP) VENTS IN THE GROUT AS DIRECTED IN THE FIELD BY THE ENGINEER.

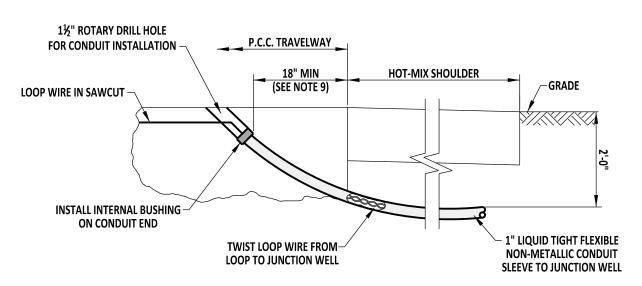
DELAWARE
DEPARTMENT OF TRANSPORTATION

SPECIAL POLE BASE							APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	 12/22/2011 DATE	
STANDARD NO.	T-6 (2011)	SHT.	1	C	)F	1		RECOMMENDED	SIGNATURE ON FILE	12/21/2011



DELAWARE	S	IGN FOUNDATION	APPROVED CANOLOGICA 12/5/05 CHIEF ENGINEER  APPROVED CANOLOGICA 12/5/05
DEPARTMENT OF TRANSPORTATION	STANDARD NO. T-7 (200	SHT. 1 OF 1	RECOMMENDED RESIGN ENGINEER U/29/05



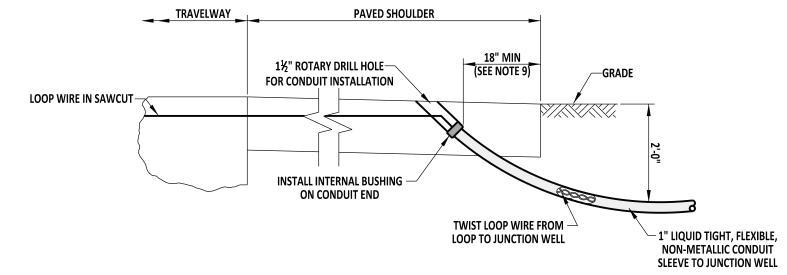


# **DETECTOR LEAD PLACED IN TRAVELWAY WITH CURB OR CURB & GUTTER**

DETAIL SHOWN WITH CURB & GUTTER, TYPE 1-8, REFER TO PLANS FOR ACTUAL CURB OR CURB & GUTTER TYPE.

# DETECTOR LEAD PLACED IN PCC TRAVELWAY WITH HOT-MIX SHOULDER

THIS DETAIL TO BE USED ONLY WHEN TRAVELWAY AND SHOULDER ARE DIFFERENT MATERIALS.



# **DETECTOR LEAD PLACED IN PAVED SHOULDER**

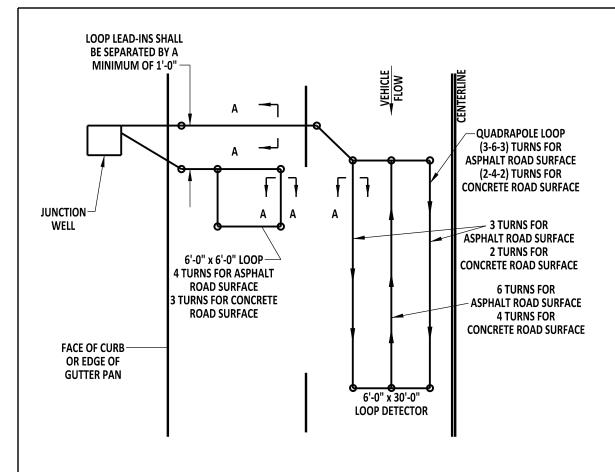
THIS DETAIL TO BE USED ONLY WHEN TRAVELWAY AND SHOULDER ARE THE SAME MATERIAL.

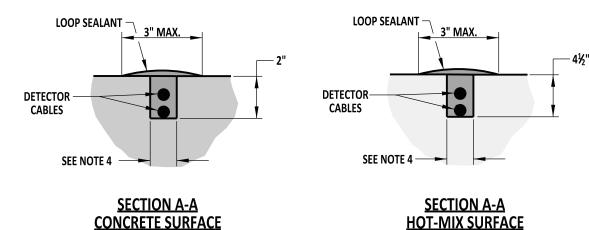
- 1). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE CONDUIT AGAINST ANY POSSIBLE DAMAGE DURING PAVING OPERATIONS.
- 2). THE WEATHERPROOF FITTING SHALL CONSIST OF A GALVANIZED 1½" COUPLING CONTAINING A STEEL THREADED REDUCING BUSHING (1½" TO ¾") AND A ¾" WATERTIGHT CONNECTOR FOR SERVICE ENTRANCE CABLE.
- 3). THE LEAD-IN WIRE SHALL BE RUN THROUGH THE RUBBER OF THE WEATHERPROOF FITTING.
- 4). LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT SHALL BE USED WHERE THE DISTANCE BETWEEN THE DRILLED HOLE FOR CONDUIT SLEEVE AND JUNCTION WELL IS 6'-0" OR LESS. ALL OTHER CONDUIT SLEEVES SHALL BE 1" RIGID, GALVANIZED STEEL UNLESS OTHERWISE SPECIFIED.
- ). INSTALL DUCT SEAL IN BOTH ENDS OF CONDUIT SLEEVE.
- 6). SLEEVE AND SAWCUT SHALL NOT DAMAGE OR CONTACT CURB AND GUTTER.
- 7). SEPARATE 1" ELECTRICAL CONDUIT SLEEVES SHALL BE REQUIRED FOR EACH LOOP SPACED 1'-0" MINIMUM APART IN ROADWAY.
- B). CONTRACTOR SHOULD AVOID WHEEL PATH IN THE ROADWAY WHILE DRILLING FOR CONDUIT INSTALLATION.
- MAINTAIN 18" TO EDGE OF TRAVELWAY (MEASURED TO FRONT OF GUTTER PAN, FACE OF UPRIGHT CURB, OR FRONT EDGE OF SHOULDER) OR OUTER EDGE OF PAVEMENT IF LOOP DETECTOR CONNECTION IS MADE IN THE SHOULDER.
- 10). REFER TO DETAIL T-9, SHEET 1 OF 1 FOR LOOP DETECTOR INSTALLATION DETAILS.

DELAWARE
DEPARTMENT OF TRANSPORTATION

LOOP DETECTOR TO CONDUIT CONNECTION						APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	01/07/2013 DATE
STANDARD NO.	T-8 (2012)	SHT.	1	OF	1	RECOMMENDED	SIGNATURE ON FILE DESIGN ENGINEER	12/20/2012 DATE







# **LOOP DETECTOR SAWCUT TYPICAL**

REFER TO DETAIL T-8, SHEET 1 OF 1 FOR LOOP DETECTOR LEAD-IN INSTALLATION DETAILS.

# RUBBER END BOOT FOR SHIELDED CABLE FIXED ENCLOSURE TUBE BARREL SHAPED OPENING LOOP DETECTOR HOME-RUN ROTATABLE ACCESS CYLINDER

## NOTES:

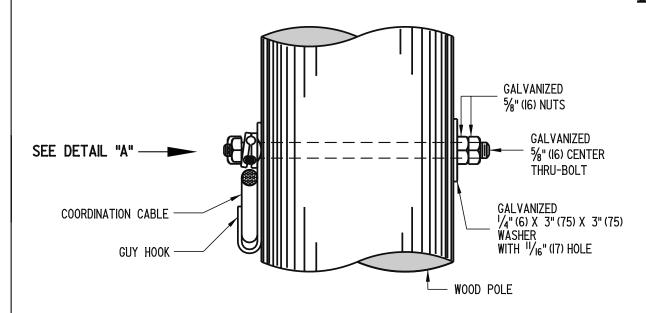
- 1). WHEN A PROPOSED LOOP DETECTOR SAWCUT CROSSES A LATERAL ROADWAY JOINT OR VALVE COVER (FOR EXAMPLE, MANHOLE, JUNCTION WELL, ETC.), LOOP DETECTOR INSTALLATION SHALL BE MODIFIED INTO TWO SEPARATE LOOP DETECTORS WHICH SHALL NOT TRAVERSE JOINTS OR VALVE COVERS.
- 2). THE LOOPS SHALL BE PLACED IN THE CENTER OF THE LANE UNLESS OTHERWISE NOTED ON PLANS.
- 3). PRESENCE LOOP DETECTORS ARE TO BE PLACED 12" BEHIND THE EXISTING OR PROPOSED STOP LINE.
- 4). LOOP DETECTOR AND LEAD-IN SAWCUTS SHALL BE \%".
- 5). 1½" DRILL HOLES SHALL BE USED AT ALL CHANGES IN SAWCUT DIRECTIONS.
- 6). BARREL SIZE SHALL BE 1" TO 1½" DIAMETER AND 4" TO 6" LONG. ALL SPLICE KIT CONNECTIONS SHALL BE DONE IN JUNCTION WELLS ONLY.

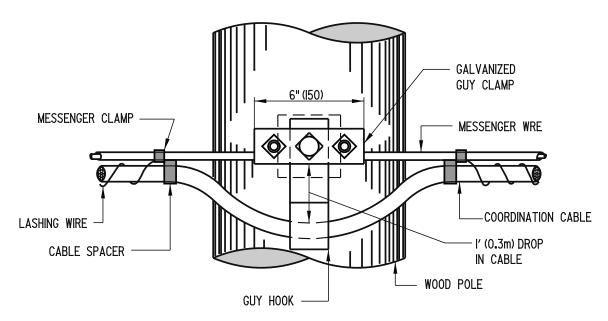
# SPLICE KIT DETAIL SEE NOTE 6

LOC	OP DETECTOR INSTA	ALLATIO	APPROVED	SIGNATURE ON FILE CHIEF ENGINEER	01/07/2013 DATE			
STANDARD NO.	T-9 (2012)	SHT.	1	OF	1	RECOMMENDED	SIGNATURE ON FILE DESIGN ENGINEER	12/20/2012 DATE



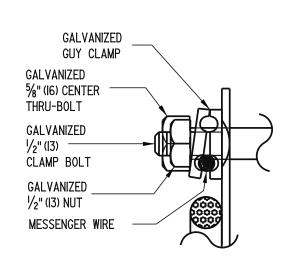
# INTERMEDIATE

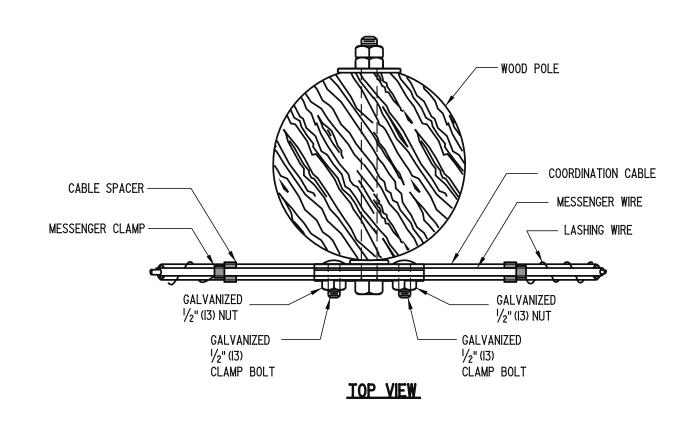




SIDE VIEW

FRONT VIEW

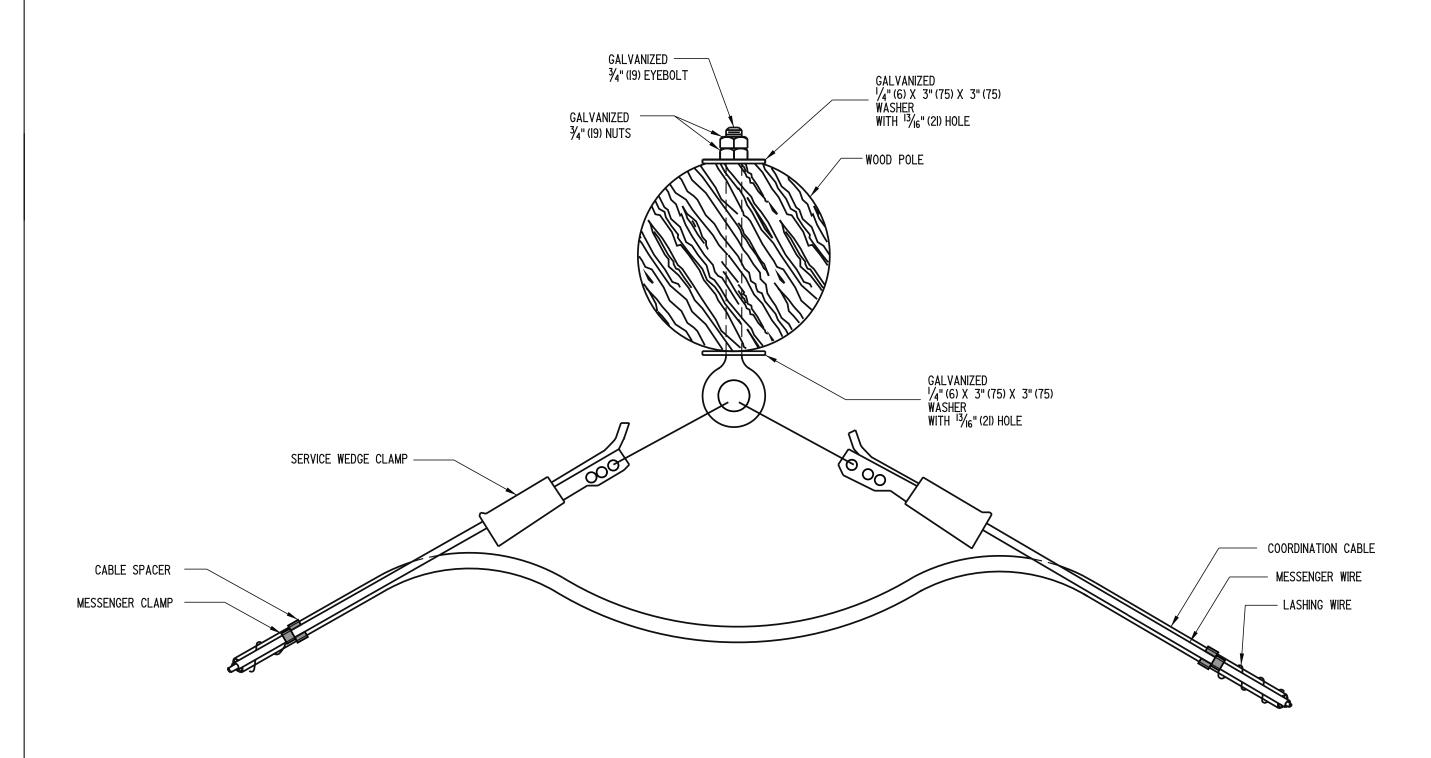




DETAIL "A"



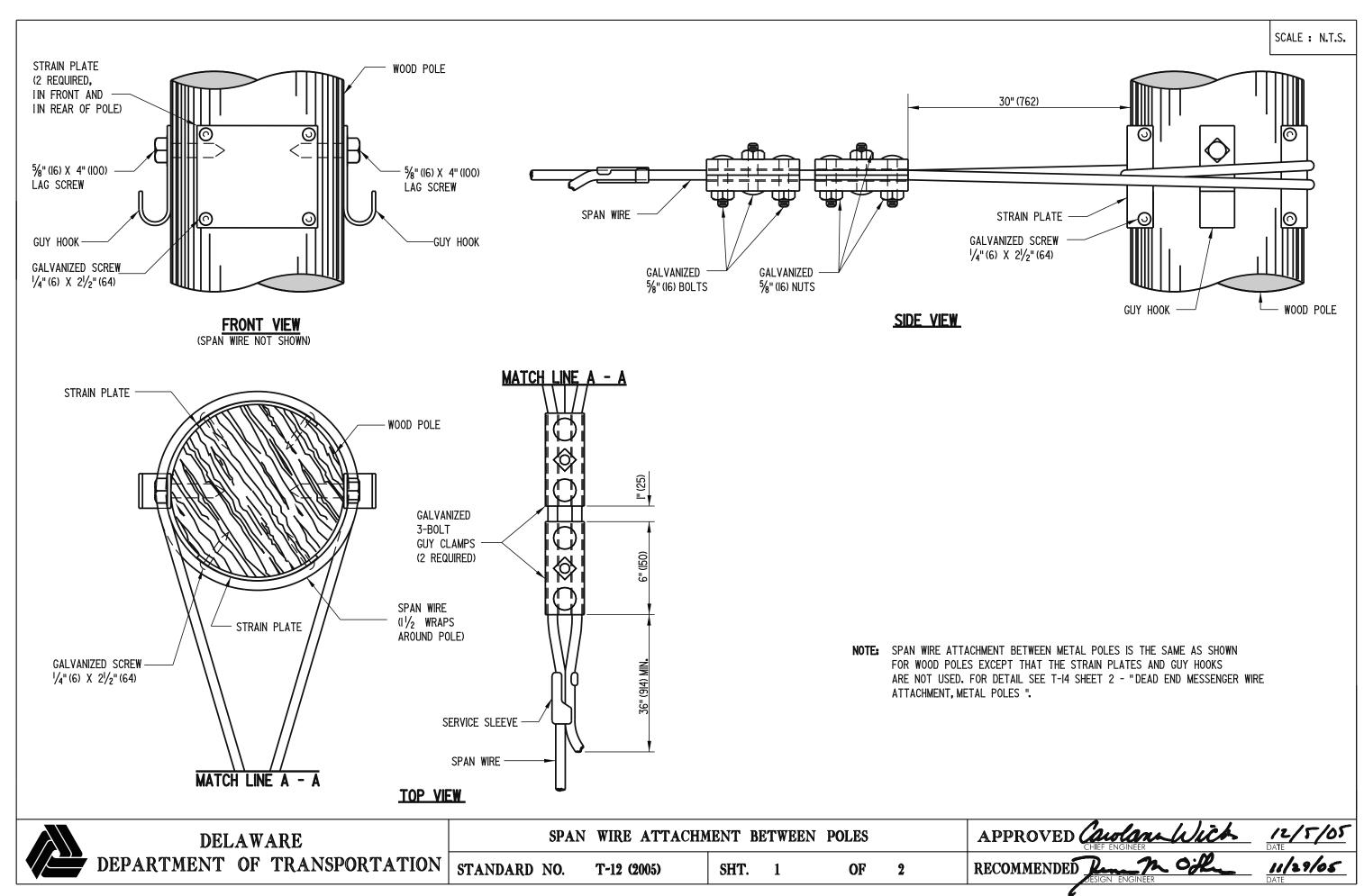
INTERMEDIATE	MESSENGER	WIRE	ATTA	CHMENT	ON	WOOD	POLES	
STANDARD NO.	T-11 (2005)		SHT.	1	(	<b>)</b> F	2	

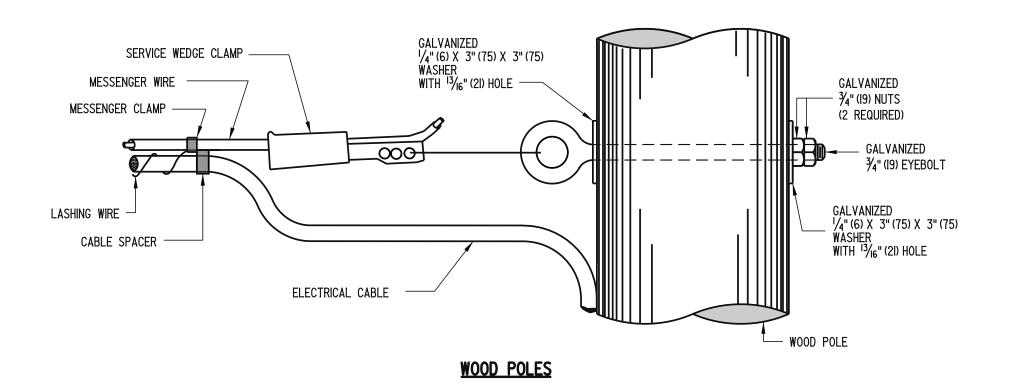


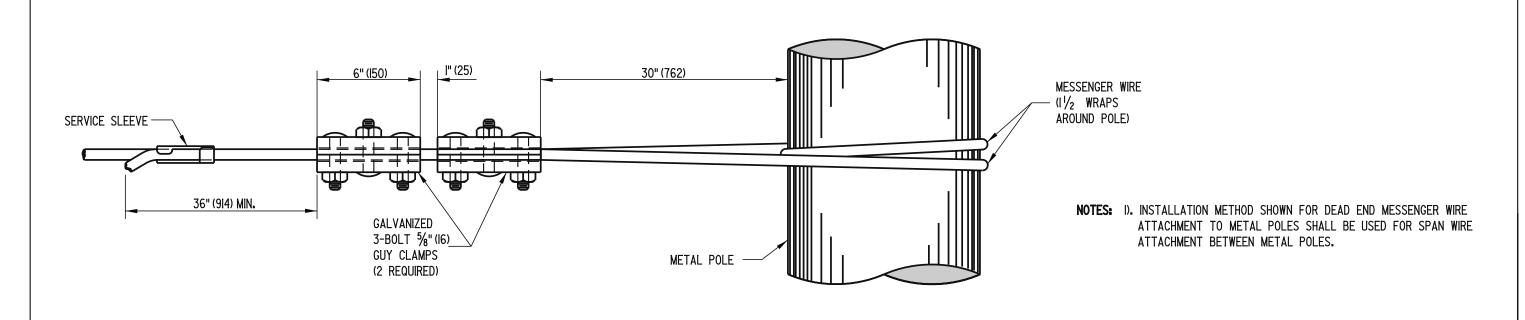
TOP VIEW

DELAWARE
DEPARTMENT OF TRANSPORTATION
STANDARD NO. T-11 (2005)
SHT. 2 OF 2

RECOMMENDED CAUGICAL LAICH PROVED CAUGICAL LAICH PROVED

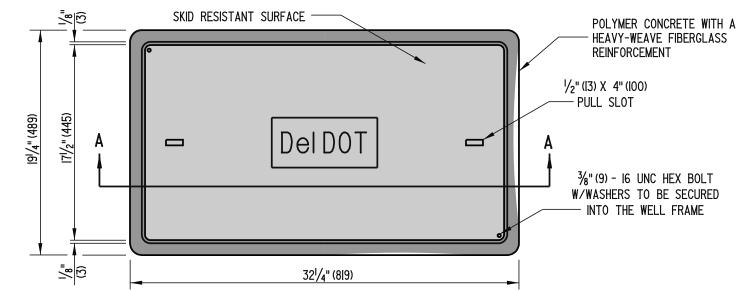






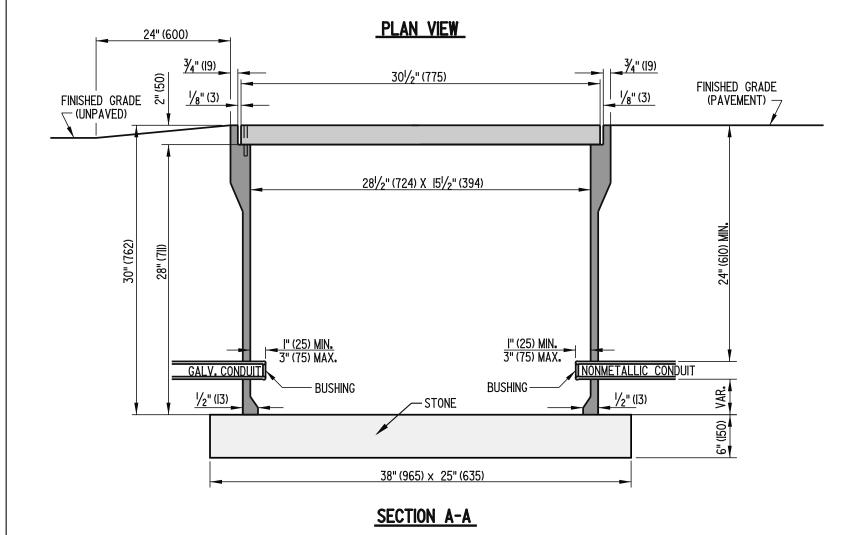
METAL POLES





# NOTES:

- I). TYPE 6 CONDUIT JUNCTION WELL SHALL BE PRECAST POLYMER CONCRETE.
- 2). ALL CONDUIT JUNCTION WELLS CONSTRUCTED WITHIN PAVEMENT, SIDEWALKS, ETC. WILL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM THE CONDUIT JUNCTION WELL.
- 3). POLYMER CONCRETE COVERS SHALL BE THE HEAVY-DUTY TYPE WITH A DESIGN LOAD OF 15,000 LBS (6800 kg) OVER A 10" (255) SQUARE.



STANDARD NO.

**DELAWARE** DEPARTMENT OF TRANSPORTATION

CONDUIT JUNCTION WELL, TYPE 6

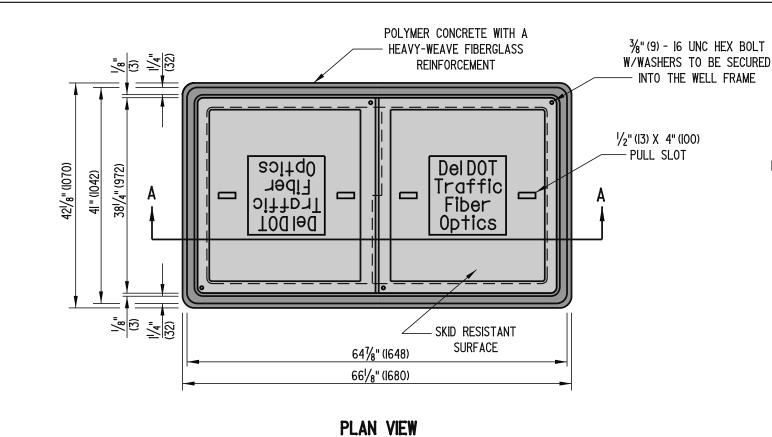
SHT. 1

T-13 (2005)

**OF** 

3

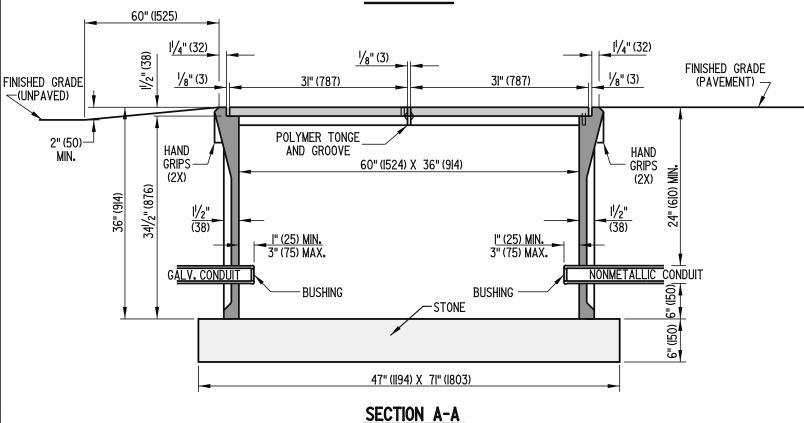




NOTES:

1). TYPE 7 CONDUIT JUNCTION WELL SHALL BE PRECAST POLYMER CONCRETE.

- 2). ALL CONDUIT JUNCTION WELLS CONSTRUCTED WITHIN PAVEMENT, SIDEWALKS, ETC. WILL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM THE CONDUIT JUNCTION WELL.
- 3). POLYMER CONCRETE COVERS SHALL BE THE HEAVY DUTY TYPE WITH A DESIGN LOAD OF 15,000 LBS (6800 kg) OVER A 10" (255) SQUARE.



STANDARD NO.

DELAWARE
DEPARTMENT OF TRANSPORTATION

CONDUIT JUNCTION WELL, TYPE 7

SHT. 2

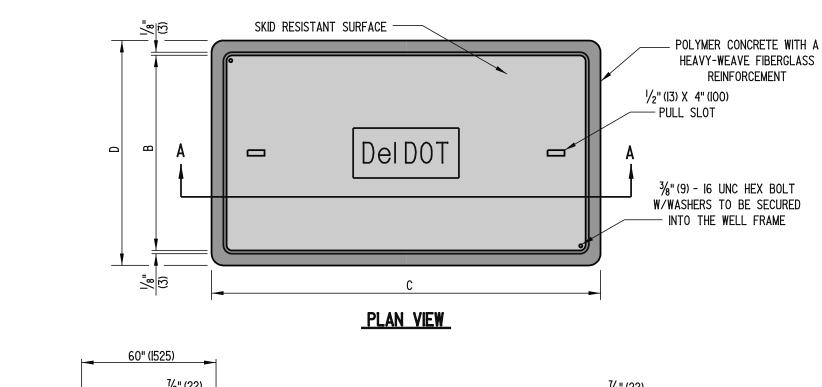
T-13 (2006)

**OF** 

3

APPROVED RECOMMENDED

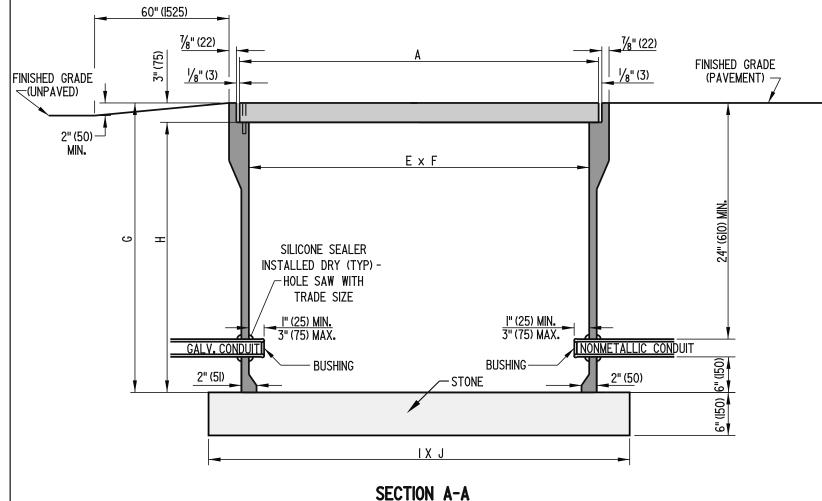
| 10/10/06 | DATE | 10/3/06 | DATE |



## NOTES:

- I). TYPES 8 & IO CONDUIT JUNCTION WELLS SHALL BE PRECAST POLYMER CONCRETE.
- 2). ALL CONDUIT JUNCTION WELLS CONSTRUCTED WITHIN PAVEMENT, SIDEWALKS, ETC. WILL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME, INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM THE CONDUIT JUNCTION WELL.
- 3). POLYMER CONCRETE COVERS SHALL BE THE HEAVY-DUTY TYPE WITH A DESIGN LOAD OF 15,000 LBS (6800 kg) OVER A 10" (255) SQUARE.

DIMENSI	DIMENSIONS		TYPE 10		
COVER	A	47 %" (1210)	35 %" (905)		
COVER	В	30 <b>/</b> 8" (765)	24" (6 0)		
	С	49 %" (1261)	37 %" (956)		
	D	32 1/8" (816)	26" (660)		
FRAME	E	45 %" (1159)	33 %" (860)		
	F	28 1/8" (714)	22 1/4" (565)		
	G	36" (914)	30" (1067)		
	Н	33" (838)	27" (991)		
DACE	I	58" (1473)	46" (  68)		
BASE	J	40" (1016)	34" (864)		



STANDARD NO.

DEL	λW	ARE	
DEPARTMENT	OF	TRANSPORTATION	

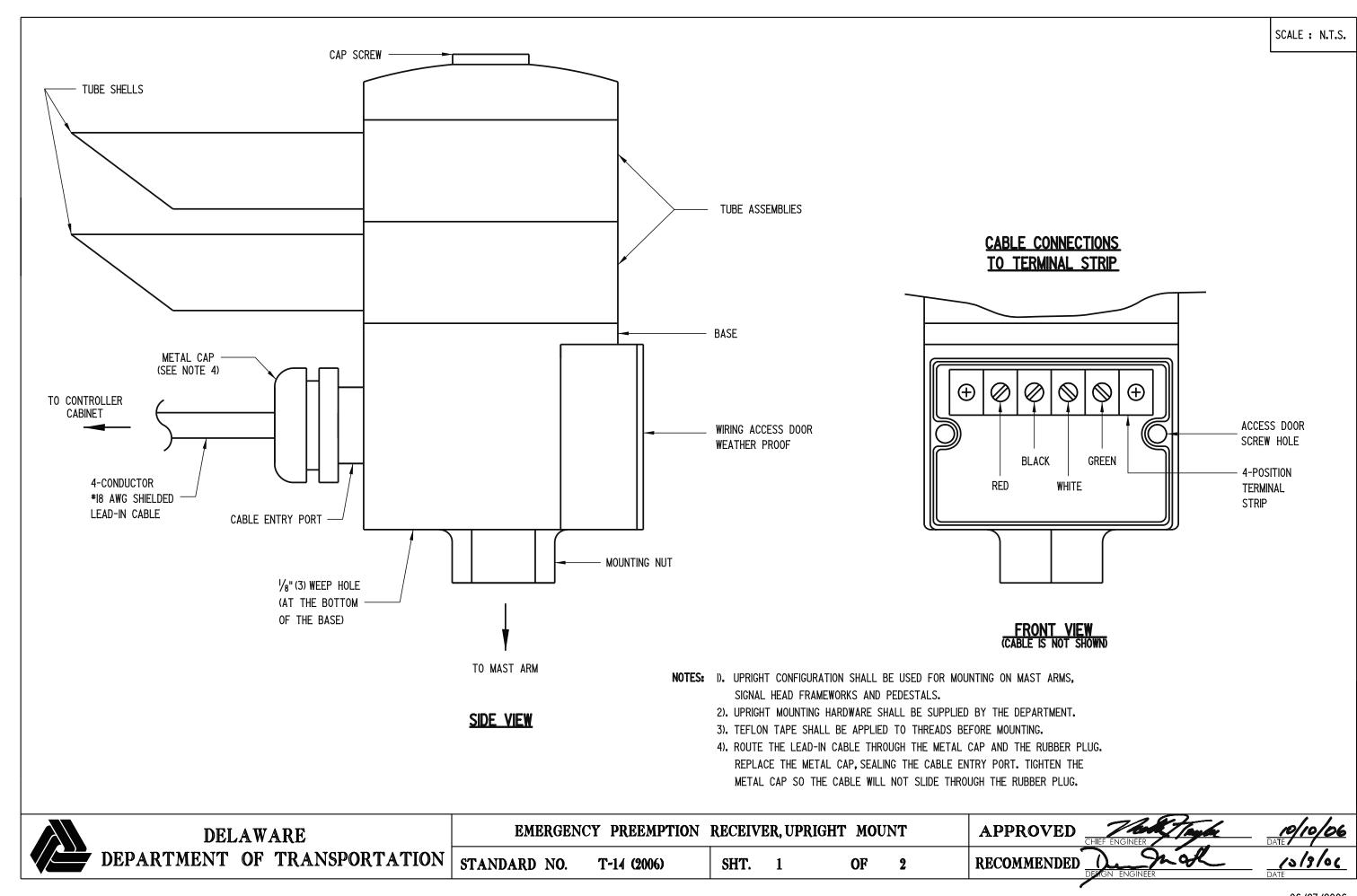
CONDUIT JUNCTION WELLS, TYPES 8 & 10

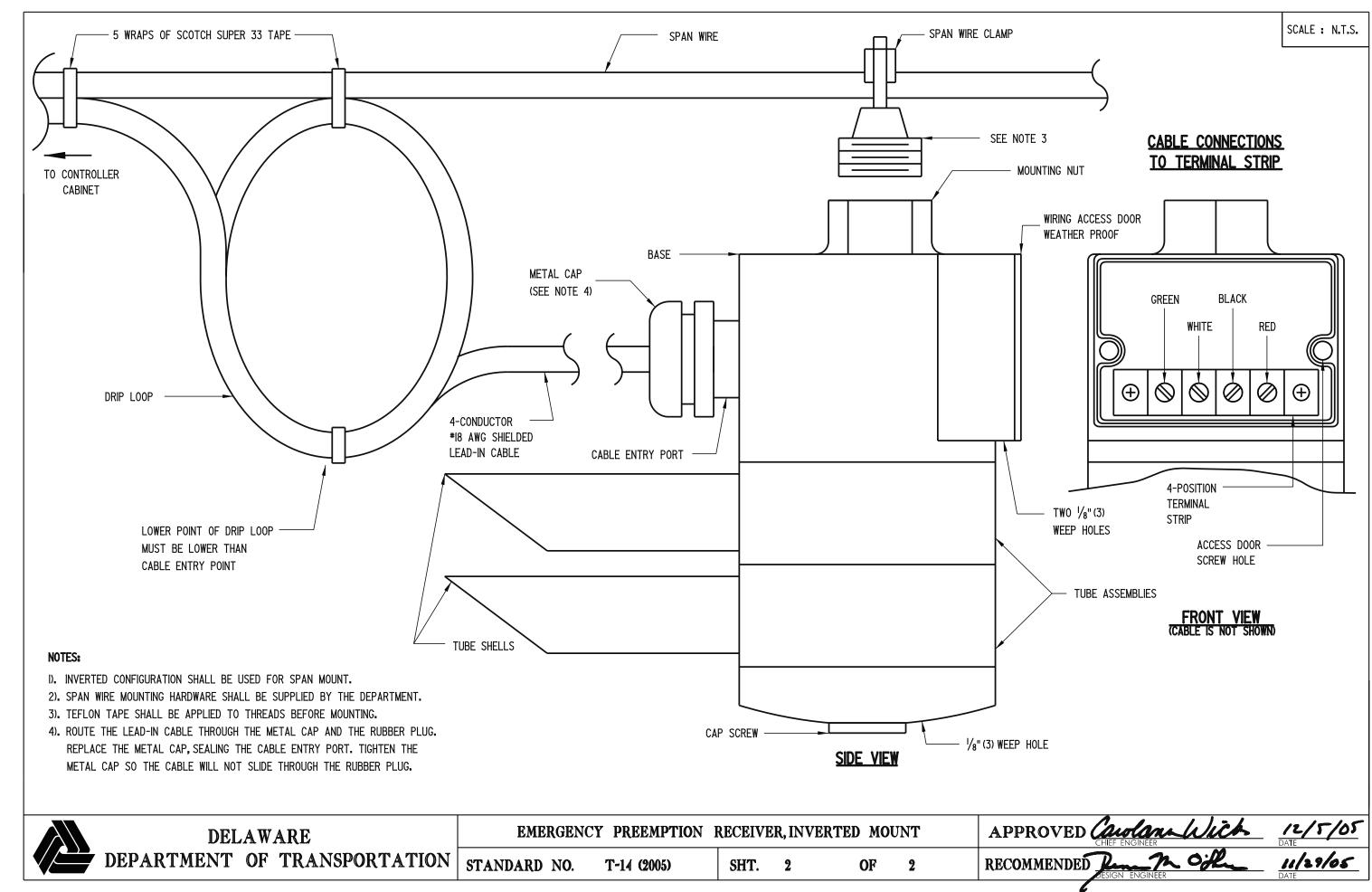
APPRO

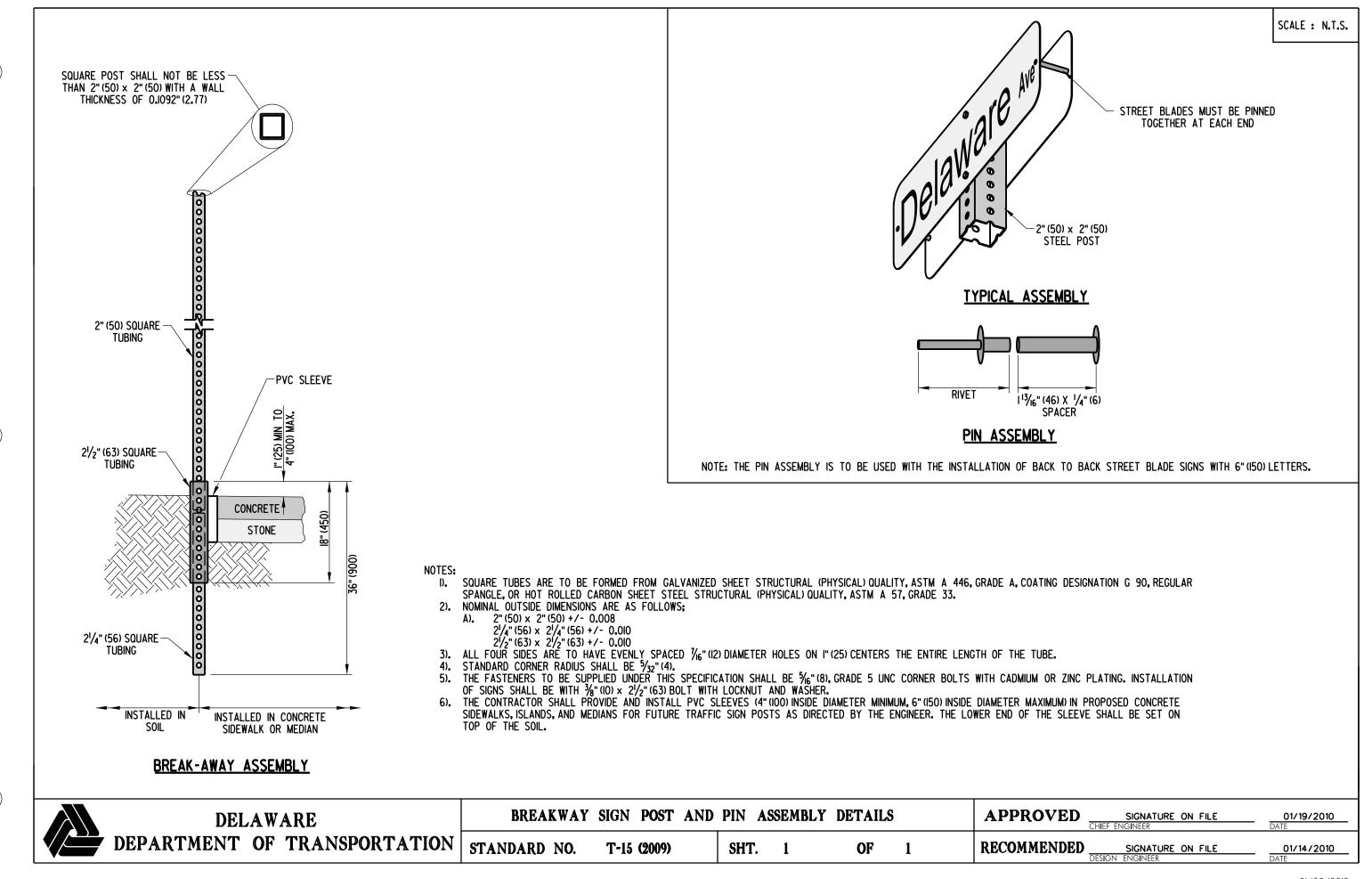
O. T-13 (2006) SHT. 3 OF 3 RECOMM

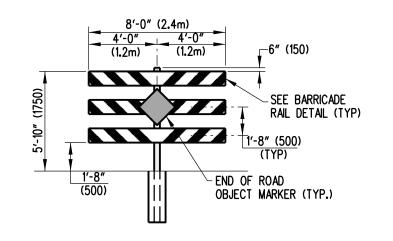
RECOMMENDED CHIEF ENGIN

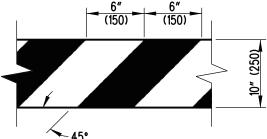
10/10/06



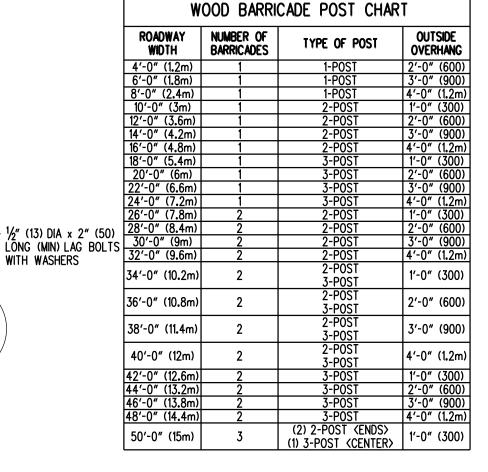








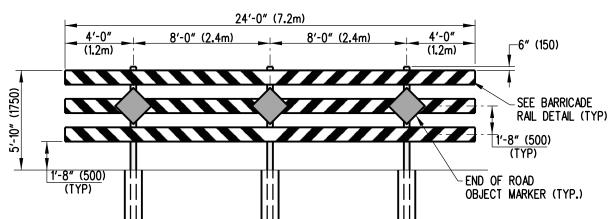
# **~** 45° BARRICADE RAIL DETAIL 1" (25) x 10" (250) BARRICADE RAIL WITH WASHERS 1/2" (13) 6" (150)—



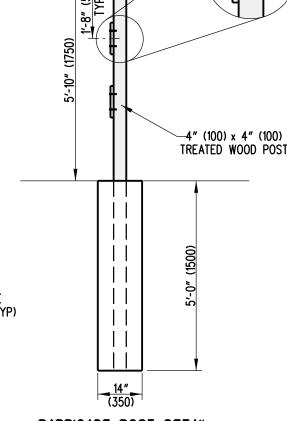
# 16'-0" (4.8m) 8'-0" (2.4m) 4'-0" **⊢6" (150)** (1.2m)(1.2m)5'-10" (1750) SEE BARRICADE RAIL DETAIL (TYP) 1'-8" (500) 1'-8" (500) END OF ROAD OBJECT MARKER (TYP.) (TYP)

2-POST PERMANENT WOOD BARRICADE DETAIL

1-POST PERMANENT WOOD BARRICADE DETAIL



3-POST PERMANENT WOOD BARRICADE DETAIL



BARRICADE POST DETAIL

- BARRICADES SHALL BE PLACED COMPLETELY ACROSS THE ROADWAY FROM EDGE OF ROAD TO EDGE OF ROAD. IF NECESSARY, THE BARRICADE OVERHANG BEYOND THE OUTSIDE POSTS (TYPICALLY 4'-0" (1.2m)) MAY BE REDUCED TO THE "OUTSIDE OVERHANG' VALUE INDICATED IN THE TABLE ABOVE IF OBSTACLES ARE PRESENT BEYOND THE ROADWAY EDGE.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATING FLUORESCENT RED AND WHITE STRIPES. SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES, USING PRISMATIC, RETROREFLECTIVE SHEETING. STRIPES SHALL SLOPE DOWNWARD TOWARDS THE CENTER OF THE CLOSURE.
- ATTACH BARRICADE RAIL AND OBJECT MARKER TO THE 4" (100) x 4" (100) PRESSURE TREATED WOOD POST USING LAG BOLTS (2" (50) LONG, MINIMUM) WITH WASHERS. TWO BOLTS PER RAIL PER POST SHALL BE REQUIRED.
- ALL WOOD SHALL BE PRESSURE TREATED.
- THE END OF ROAD OBJECT MARKER (MUTCD CODE OM4-3) SHALL BE 18" (450) x 18" (450) WITH RED PRISMATIC, RETROREFLECTIVE SHEETING.
- TREATED WOOD POST SHALL BE PLACED IN PRE-DUG HOLE, BACKFILLED USING SUITABLE MATERIAL, AND TAMPERED THOROUGHLY TO PROVIDE A RIGID SUB-SURFACE CONDITION AROUND THE POST.
- BARRICADE RAILS MAY BE CONSTRUCTED USING PLASTIC OR WOOD AND SHOULD NOT BE METAL.
- LONGER WIDTH CLOSERS CAN BE ACCOMODATED BY VARIOUS COMBINATIONS OF 2-POST AND 3-POST BARRICADES.



WOOD BARRICADE DETAIL T-16 (2010) SHT. 1

OF

APPROVED

RECOMMENDED

SIGNATURE ON FILE 12/28/2010

SIGNATURE ON FILE