

Application for DelDOT Safety Permit

Property Owner's Name: _____ Date: _____

Mailing Address: _____

City State Zip Code

Telephone No.: _____ Cell No.: _____

Fax No.: _____ E-mail Address: _____

Tax Map/ Parcel I.D. : _____
(NCC Ex: 00- 000.00-000; KC Ex: 0 00 000 00 00 00 000; SC Ex: 0-00 00.00 00.00)

Applicant Name: _____ Point of Contact (Name): _____

Mailing Address: _____

City State Zip Code

Telephone No.: _____ Cell No.: _____

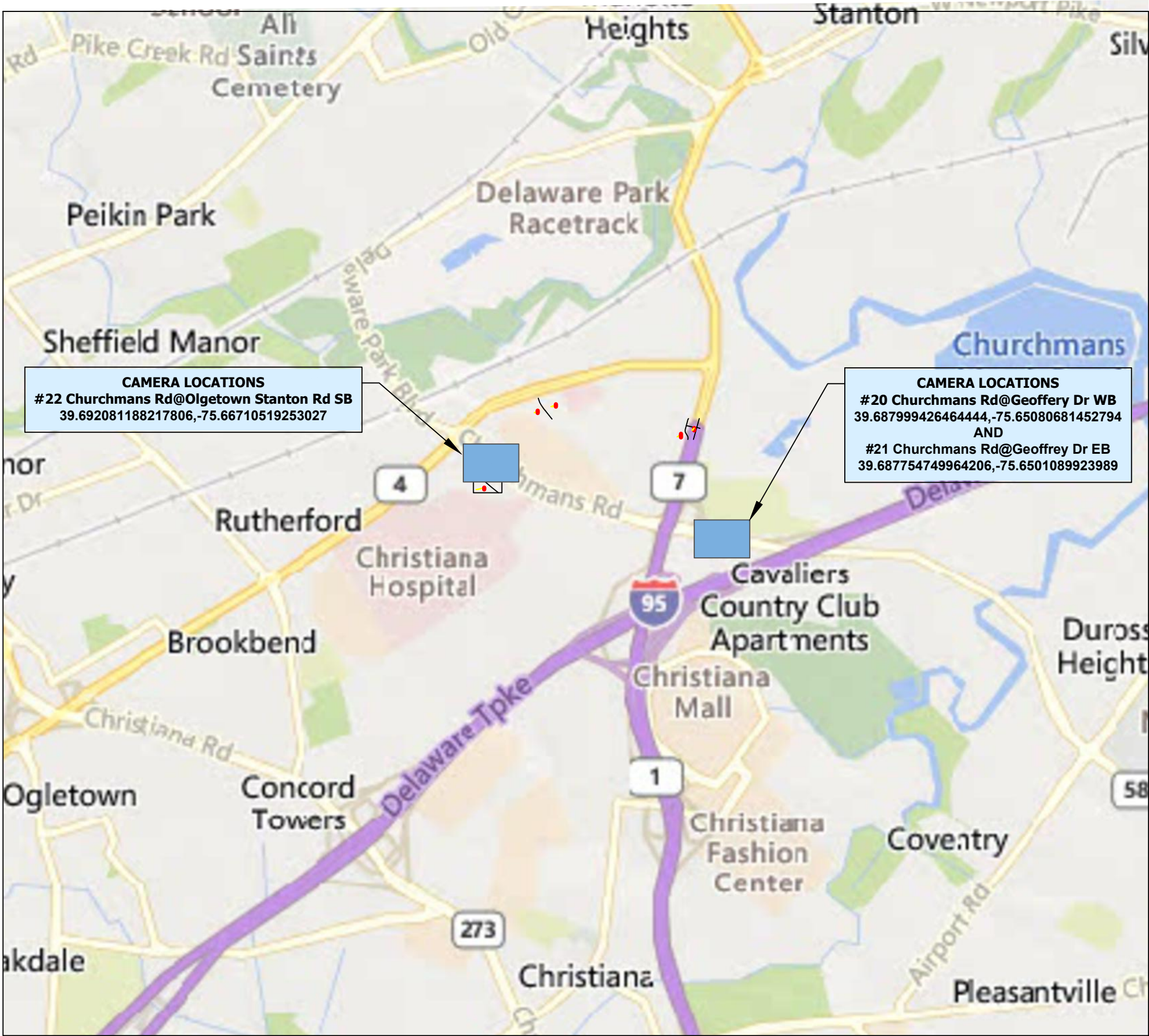
Fax No.: _____ E-mail Address: _____


Proposed Project Location:

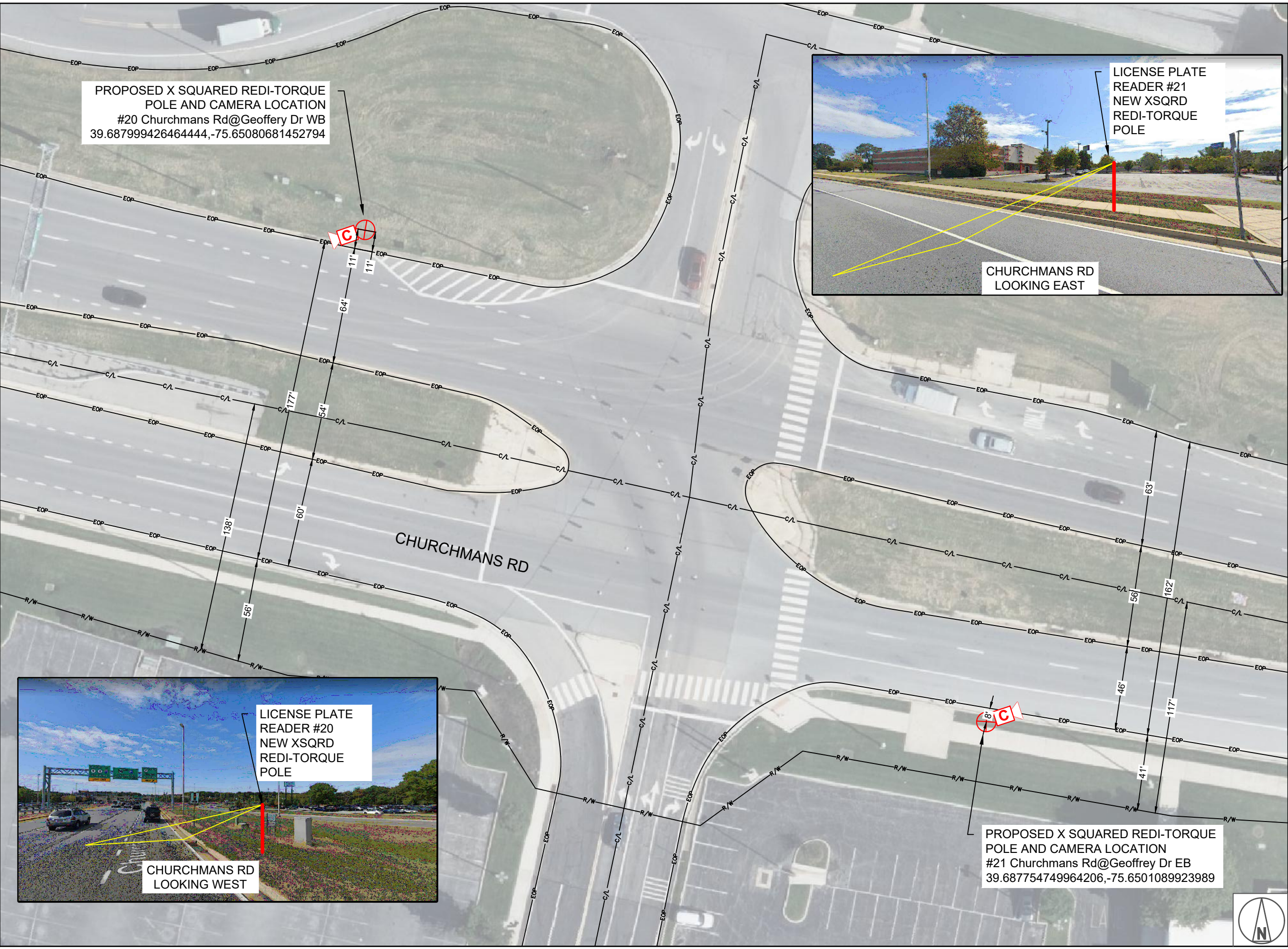
Nearest Intersecting road:

Description of Work:

SITE LOCATION MAP



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I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY MYSELF OR UNDER MY DIRECT SUPERVISION THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF DELAWARE		
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<div><p>Know what's below. Call before you dig.</p><p>EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND BASED ON AVAILABLE RECORDS AND FIELD OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR CALLING 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND ANY DAMAGE TO THE UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTORS EXPENSE.</p></div>		



1 INCH = 50 FEET

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1. POLE AND FOUNDATION DESIGNED PER AASTHO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2015 EDITION WITH 2017, 2018 & 2019 INTERIMS.

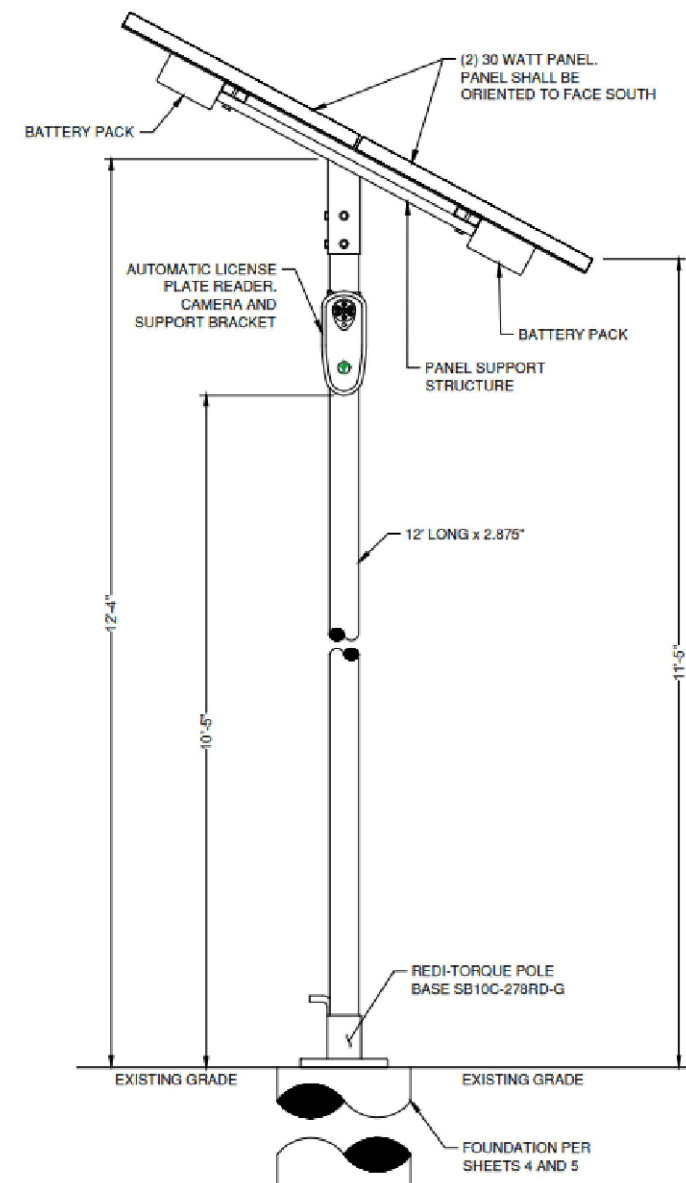
3. CONCRETE SHALL HAVE A MINIMUM 28-DAY DESIGN STRENGTH OF 3000 PSI, AND HAVE AT LEAST 505 POUNDS OF CEMENTITIOUS MATERIAL PER CUBIC YARD.

5. DO NOT USE THIS DETAIL FOR SITES WHERE SOIL CONSISTS OF SOFT CLAY, PEAT OR ANY OTHER SOIL WHERE A SMALL DIAMETER REBAR (#5 OR SMALLER) OR METAL PROBE PENETRATES EASILY TO 6" OR MORE OF DEPTH WHEN THE FULL WEIGHT OF A PERSON IS APPLIED.

6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION AND LOCAL AGENCY SPECIFICATIONS UNLESS SPECIFICALLY STATED OR SHOWN OTHERWISE HEREIN.

4. NO OBSTRUCTION IS PERMITTED ALONG THE WIDTH OF THE SIDEWALK UP TO 7'-0" IN HEIGHT.

10. CONTRACTOR SHALL RESTORE RIGHT-OF-WAY TO EQUAL OR BETTER CONDITION UPON COMPLETION OF WORK.



12' LONG x 2.875" O.D.


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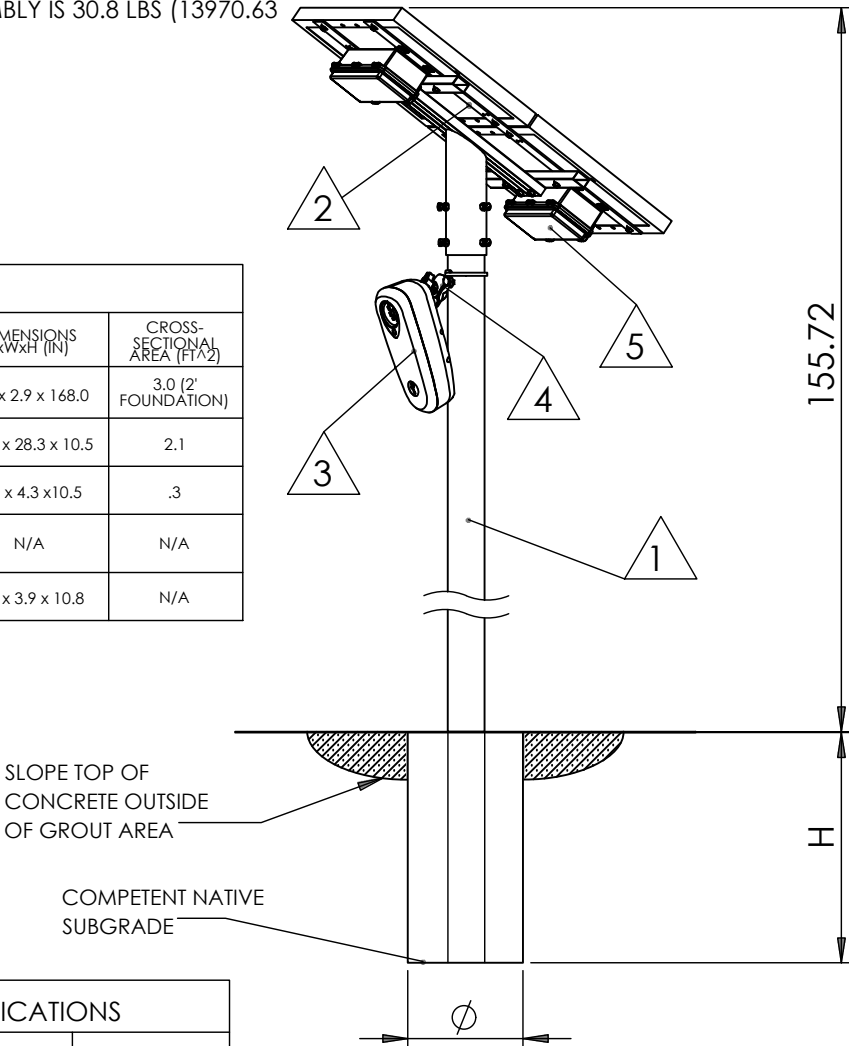
- NOTES:
- 1

POLE IS BREAKAWAY 2.875" (73mm) IN DIAMETER 6063-T52 ALUMINUM WITH WALL THICKNESS .203" (5.16mm) AS PER 12/6/2007 FHWA LETTER.
- 2

THE PANEL ASSEMBLY MAY NOT EXCEED TWO BATTERY PACKS
3.

MAX TOTAL WEIGHT OF ASSEMBLY IS 30.8 LBS (13970.63 GRAMS)

BOM						
Item	Part Number	Part Name	QTY.	MASS (LB)	DIMENSIONS LxWxH (IN)	CROSS-SECTIONAL AREA (FT^2)
1	204-00029	14' BLACK 2-PIECE POLE	1	17	2.9 x 2.9 x 168.0	3.0 [2' FOUNDATION]
2	701-00116	Double Panel - Top Mount	1		21.3 x 28.3 x 10.5	2.1
3	701-0059	Flock Safety Camera	1	3.6	3.3 x 4.3 x10.5	.3
4	702-0007	RAM Ball Mount & Adapter	1	1.4	N/A	N/A
5	701-00011	Battery Pack	2	4.4	2.8 x 3.9 x 10.8	N/A



FOUNDATION SPECIFICATIONS				
TYPE	V_MAX (MPH)	CAISSON Ø (IN)	CAISSON H (IN)	SOLAR PANEL ELEVATION FROM GRADE (FT MAX)
1*	85	8	24	12
2	110	12	30	12
3	130	12	36	12
4	150	16	48	12

* STANDARD INSTALLATION SPECIFICATIONS

PROPRIETARY AND CONFIDENTIAL

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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: X.X±3° X.XX±1° DECIMAL: X.X±.02 X.XX±.01 X.XXX±.005		
		MATERIAL		
		FINISH		
NEXT ASSY	USED ON			
APPLICATION		DO NOT SCALE DRAWING		

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

flock safety		
TOP POLE MOUNT - DOUBLE SOLAR PANEL WITH 2 EXTERNAL BATTERIES		
SIZE A	DWG. NO. 905-00005	REV. A
SCALE:1:20	SHEET 1 OF 1	

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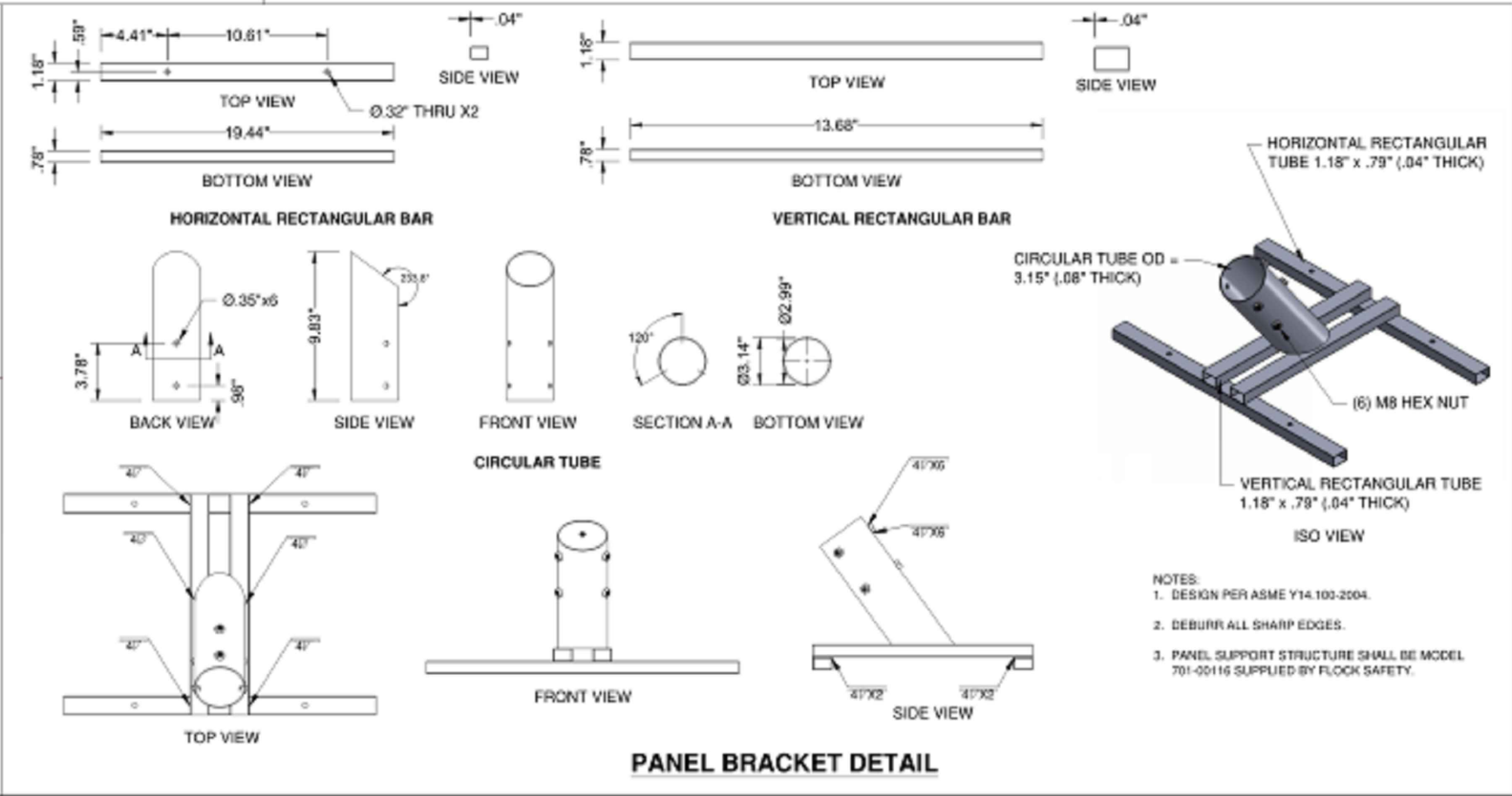
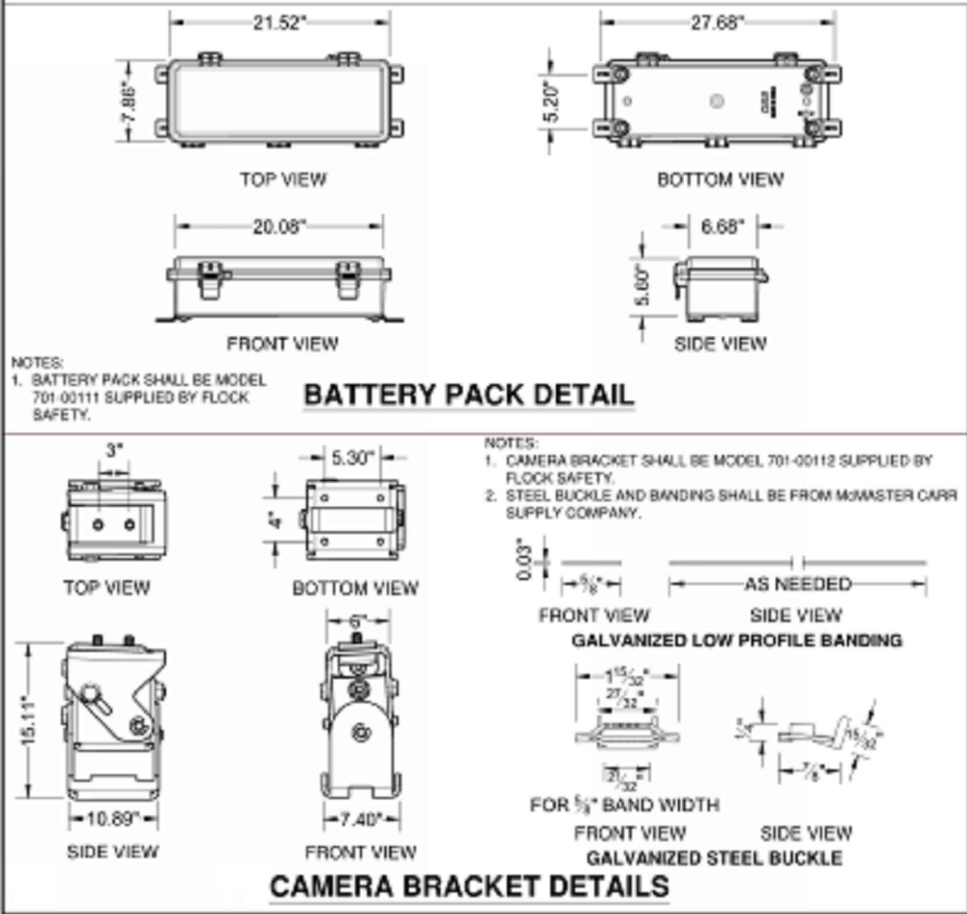
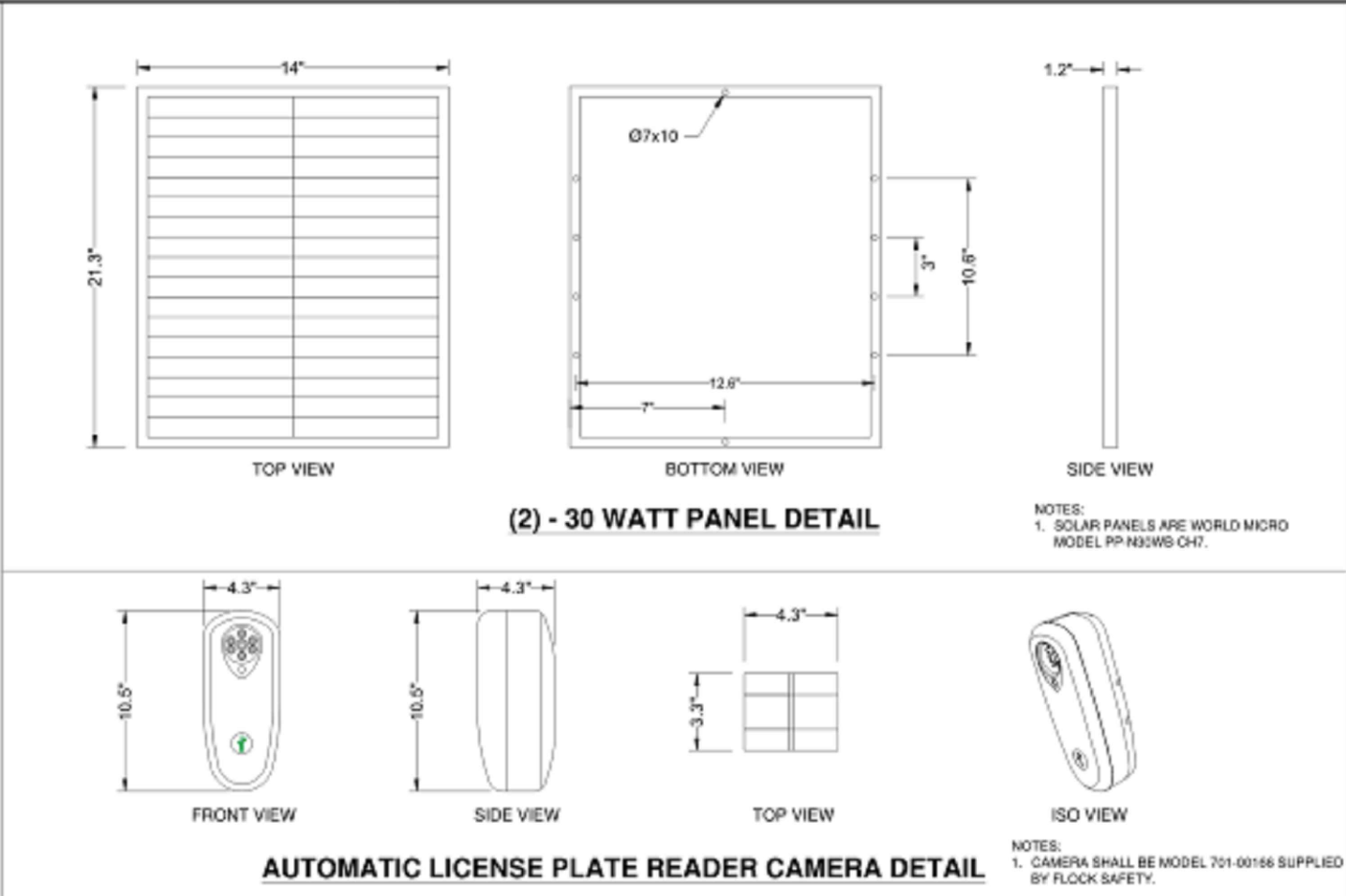
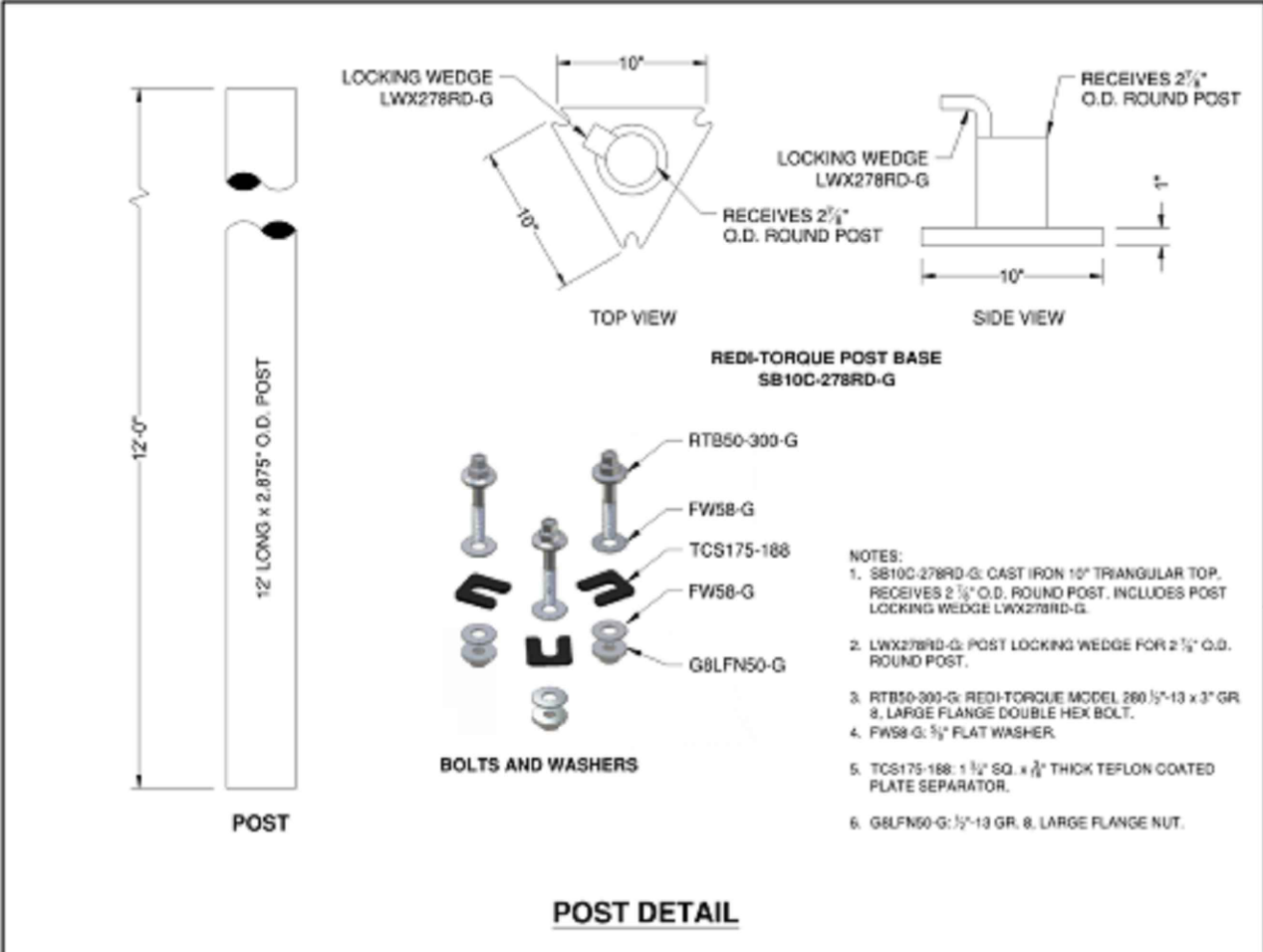
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TYPICAL DETAILS

SPEC.01



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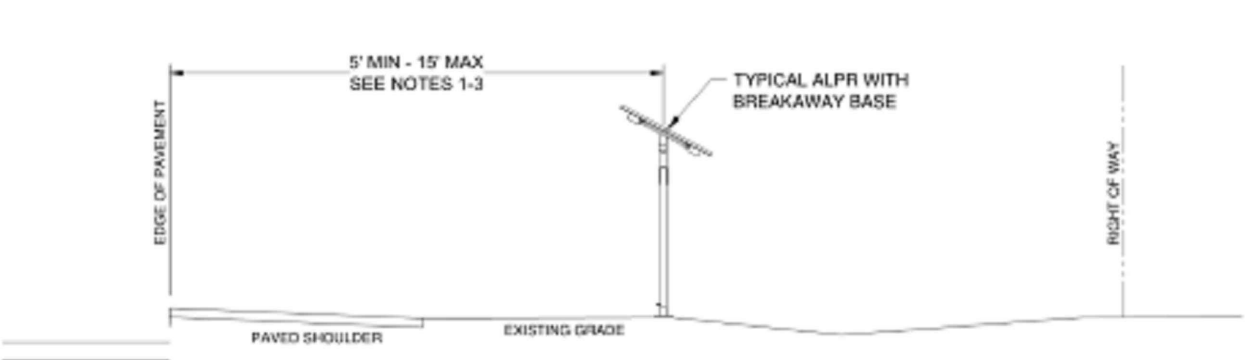
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811
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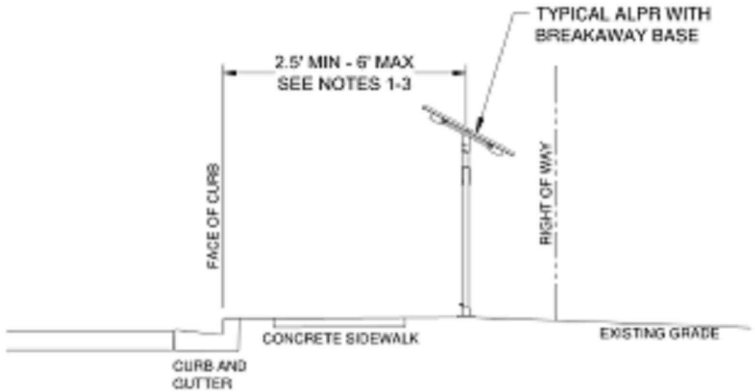
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TYPICAL DETAILS

SPEC.02

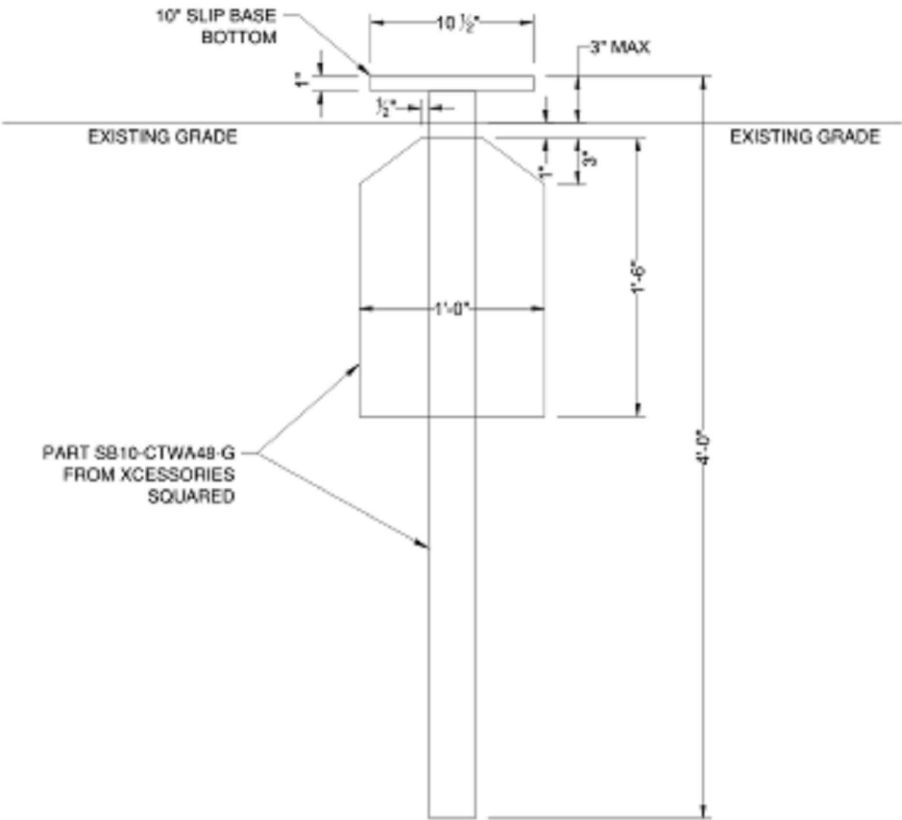


TYPICAL RURAL INSTALLATION



TYPICAL URBAN INSTALLATION

- NOTES:
1. ASSEMBLY INCLUDES AN APPROVED BREAK-AWAY BASE FOR INSTALLATION WITHIN THE ROADWAY CLEAR ZONE.
 2. LATERAL SEPARATION DISTANCE WILL BE DETERMINED ON A CASE-BY-CASE BASED ON CONDITIONS FOR SITE SPECIFIC LOCATIONS.
 3. CLEAR SIDEWALK WIDTH OF 4'-0" SHALL BE MAINTAINED.



FOUNDATION DETAIL - WINGED UNIBASE OPTION



10" SLIP BASE BOTTOM / ANCHOR	
PART NUMBER	ANCHOR SIZE
SB10-CTWA48-G	3"x48"

- NOTES:
1. DO NOT USE THIS DETAIL AT SITES WHERE FOUNDATION WILL BE BELOW THE GROUNDWATER TABLE, OR WHERE SOILS CONSIST OF LOOSE SANDS, SOFT CLAYS OR PEAT. REFER TO THE CONCRETE FOUNDATION DETAIL ON SHEET 5 FOR FOUNDATIONS SUITABLE FOR A BROADER RANGE OF SOIL TYPES AND GROUNDWATER CONDITIONS.
 2. DO NOT USE THIS DETAIL IN SOILS WHERE A SMALL DIAMETER REBAR (#5 OR SMALLER) OR METAL PROBE PENETRATES EASILY TO 6" OR MORE OF DEPTH WHEN THE FULL WEIGHT OF A PERSON IS APPLIED.
 3. DO NOT USE THIS DETAIL IN SOILS WHERE THE STANDARD PENETRATION TEST (SPT) BLOW COUNT IS 10 OR LESS.
 4. CONTRACTOR IS RESPONSIBLE TO VERIFY THE SOIL TYPE AND SUITABILITY BASED ON FIELD CONDITIONS PRIOR TO USE OPTION 1 - WINGED UNIBASE ANCHOR. IF SOILS ARE UNSUITABLE FOR APPLICATION OF WINGED UNIBASE ANCHOR, A SHAFT FOUNDATION SHALL BE USED AS SHOWN ON SHEET 5 OF 5.
 5. ORIENT WINGS SO THAT BROAD FACES ARE FACING IN NORTH-SOUTH DIRECTION AND WING EDGES ARE POINTING IN EAST-WEST DIRECTION.

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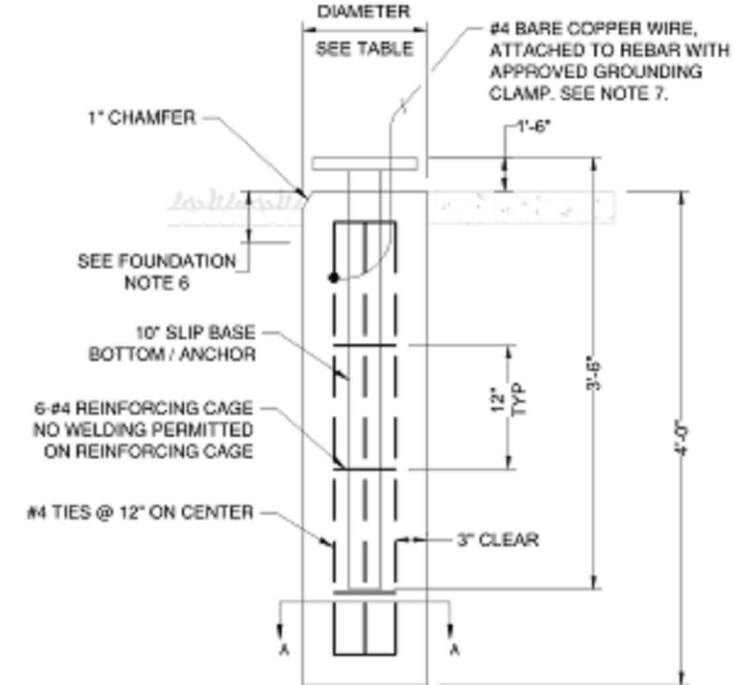
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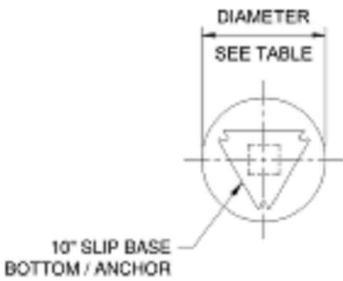
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TYPICAL DETAILS

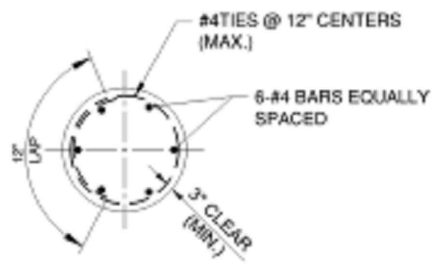
SPEC.03



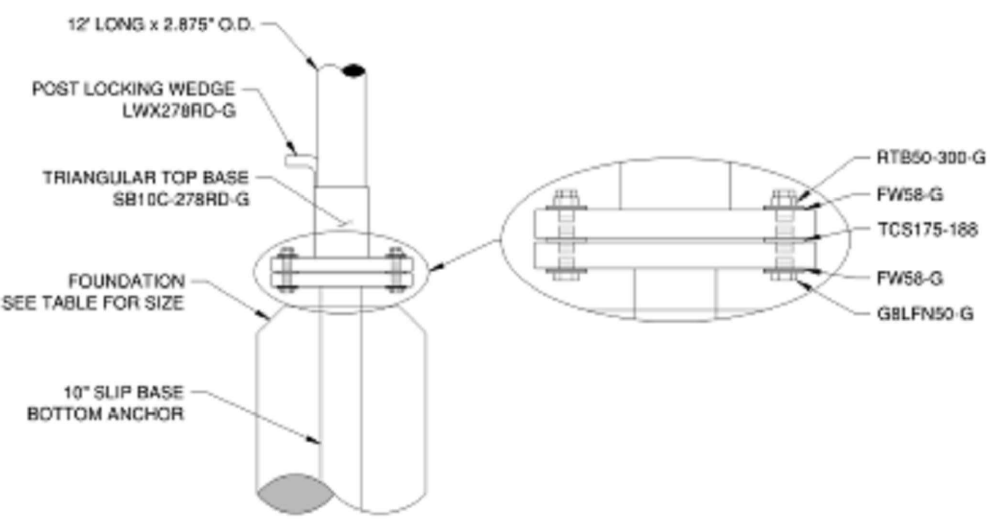
DETAIL "A"
FOUNDATION DETAIL - CONCRETE SHAFT OPTION
(PRECAST OR POURED-IN-PLACE)



TOP VIEW



SECTION A-A



BASE MOUNTING DETAIL



10" SLIP BASE - SB10-CTA42-G
BOTTOM / ANCHOR

FOUNDATION NOTES:

1. CONCRETE: CLASS I WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI, AND HAVE AT LEAST 505 POUNDS OF CEMENTITIOUS MATERIAL PER CUBIC YARD.
2. REINFORCING STEEL: ASTM A615, GRADE 60.
3. FOR PRECAST CONCRETE FOUNDATIONS, FILL THE VOID AROUND THE FOUNDATION WITH FLOWABLE FILL OR CLEAN SANDS USING HYDRAULIC METHODS TO A LEVEL 6 INCHES BELOW GRADE.
4. WHERE FOUNDATION ABUTS THE SIDEWALK, THE TOP OF THE FOUNDATION SHALL BE LEVEL WITH THE SIDEWALK. FOR ALL OTHER CASES, THE TOP OF THE FOUNDATION SHALL NOT BE MORE THAN 3 INCHES ABOVE GRADE.
5. SUPPLEMENTAL GROUNDING CONDUCTOR SHALL BE NON-INSULATED #4 AWG STRANDED COPPER AND SHALL BE CLAMPED TO VERTICAL REBAR WITH A CONNECTOR SUITABLE FOR USE IN CONCRETE: PROVIDE 3'-0" MIN. SLACK. ATTACH TO POLE GROUNDING STUD WITH A FULL CIRCLE CRIMP-ON CONNECTOR (CRIMPED WITH A MANUFACTURER RECOMMENDED CRIMPER).

FOUNDATION DESIGN NOTES:

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POLE TYPE	WIND SPEED	POLE HEIGHT	FOUNDATION		FOUNDATION REINFORCEMENT	
			DIAMETER	DEPTH	VERTICAL	HORIZONTAL
2.875" O.D. STEEL POST	100 MPH	12'	1'-0"	4'-0"	6 - NO. 4	NO. 4 @ 12" C-C

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811
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