STATE OF ILLINOIS WILL COUNTY SUBMITTED BY CITY OF NAPERVILLE AUTOMATIC LICENSE PLATE READING (ALPR) CAMERAS PERMIT

INDEX OF DRAWINGS

• SHEET 1: COVER SHEET AND CAMERA LOCATION MAP

• SHEET 2: GENERAL NOTES AND CAMERA LOCATION INFORMATION

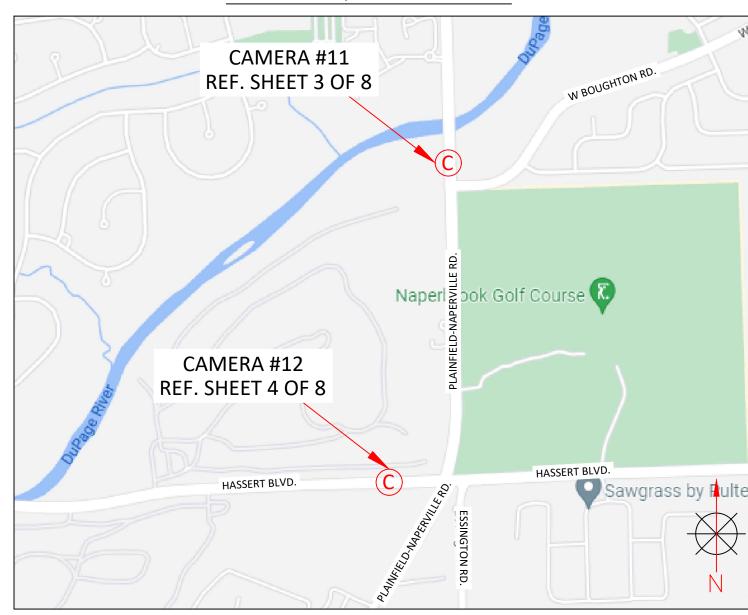
• SHEET 3-4: SITE PLAN

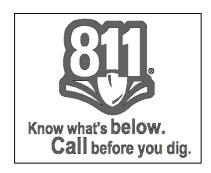
SHEET 5: TRAFFIC CONTROL PLAN

• SHEET 6-8: POLE DETAILS

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LOCATION / VICINITY MAP





EV	DESCRIPTION	DATE	BY	TITLE: COVER SHEET AND CAMERA LOCATION MAP
				COVER SHEET AND CAMERA LOCATION MAP
				SCOPE OF WORK: WILL COUNTY, IL
				ALPR CAMERA INSTALLATION
				ALFIX CAMILITA INSTALLATION

A CONGRUEX* COMPANY
9095 Rio San Diego Dr. Ste 165
San Diego, CA 92108–1694

PROJ#: 14327	9				
DRAWN BY:	PRITH	IPAL	SINGH		
CHECKED BY:	NARE	SH (CHAND		
APPROVED BY:	ERIC	KRA	VITZ		
DATE: 08/19/2	022		SHEET:	1	OF 8

GENERAL NOTES, TRAFFIC DESIGN TABLES AND CAMERA LOCATION INFORMATION

- 1. TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (FHWA) AND STATE STANDARD PLANS.
- 2. NO LANE CLOSURES PERMITTED BEFORE 9:00AM AND AFTER 3:00PM.
- 3. ALL AFFECTED RESIDENTS, BUSINESSES, AGENCIES, AND SCHOOLS SHALL BE GIVEN A 72 HOURS NOTICE PRIOR TO THE START OF WORK AND THEIR ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- 4. TEMPORARY NO PARKING SIGNS SHALL BE POSTED 48 HOURS PRIOR TO START OF WORK.

SUGGESTED WORK ZONE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS **				
ROAD TIPE	Α	В	С		
L OR LOW VOLUME WAYS*	350 (100)	350 (100)	350 (100)		
OTHER ROADWAYS*	500 (150)	500 (150)	500 (150)		
WAYS AND EXPRESSWAYS*	1,000 (300)	1,500 (450)	2,640 (800)		

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
0 MPH OR LESS	$L = \frac{WS^2}{60}$

SPEED LIMIT (S)	TAPER LENGTH (L) Meters
60 KM/H OR LESS	$L = \frac{WS^2}{155}$
	WS

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN.(15 m) 100 FT(30 m) MAX.
DOWNSTREAM TAPER	50 FT MIN.(15 m) 100 FT MAX.(30 m) PER LANE

WHERE: L = TAPER LENGTH IN FEET (METERS)

W = WIDTH OF OFFSET IN FEET (METERS)

S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WOPY STAPTING OP THE ANTICAPATED OPEPATING SPEED IN MPH (YM/H)

CAMERA		LOCATIONS		
NO.	STREET	DIRECTION	LATITUDE LONGITUDE	POLE
11	PLAINFIELD-NAPERVILLE RD.	NORTHBOUND	41.68913650356223, -88.166115185596	NEW FLOCK POLE
12	HASSERT BLVD.	WESTBOUND	41.68153631655029, -88.16705998761424	NEW FLOCK POLE

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REV	DESCRIPTION	DATE	BY	TITLE: GENERAL NOTES AND CAMERA LOCATION INFORMATION	
				GENERAL NOTES AND CAMERA LOCATION IN ORIVIATIO	
				SCOPE OF WORK: WILL COUNTY, IL	
				ALPR CAMERA INSTALLATION	
				ALFN CAIVILNA INSTALLATION	

PLANS PREPARED BY:

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A CONGRUEX COMPANY
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(949) 2500–0004 £4X (949)250–0006

	PROJ#: 143279			
	DRAWN BY: PRITHPAL SINGH			
	CHECKED BY: NARESH CHAND			
5	APPROVED BY: ERIC KRAVITZ			
	DATE: 08/19/2022 SHEET: 2 OF 8			

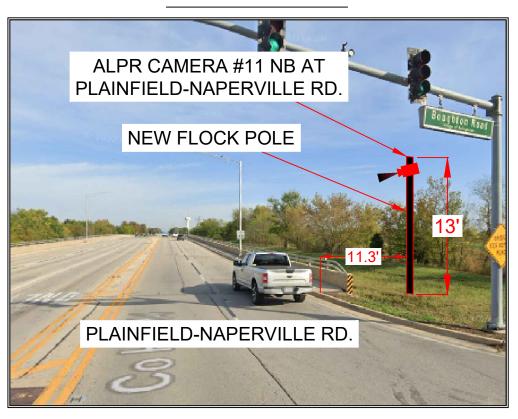
SITE ADDRESS: 2023 BALDWIN WAY

SITE PLAN

AERIAL VIEW



STREET VIEW



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REV	DESCRIPTION	DATE	BY	TITLE: SITE PLAN
				SIIL FLAIV
				SCOPE OF WORK: WILL COUNTY, IL
				ALPR CAMERA INSTALLATION
				ALFIT CAMILITA INSTALLATION

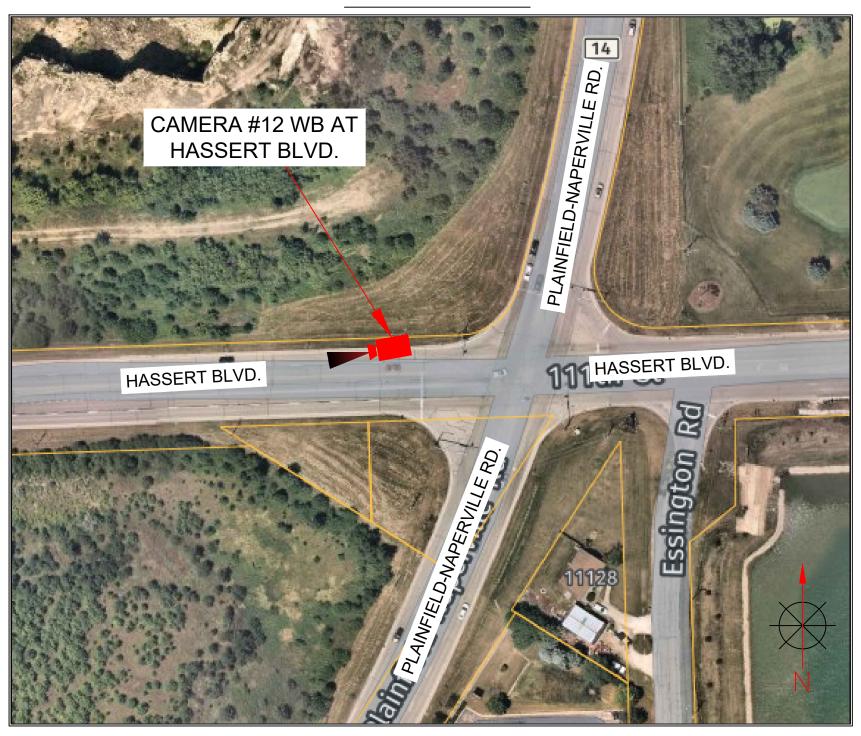
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PROJ#: 14327	9	
DRAWN BY:	PRITHPAL SINGH	
	NARESH CHAND	
APPROVED BY:	ERIC KRAVITZ	
DATE: 08/19/2	2022 SHEET: 3 OF 8	

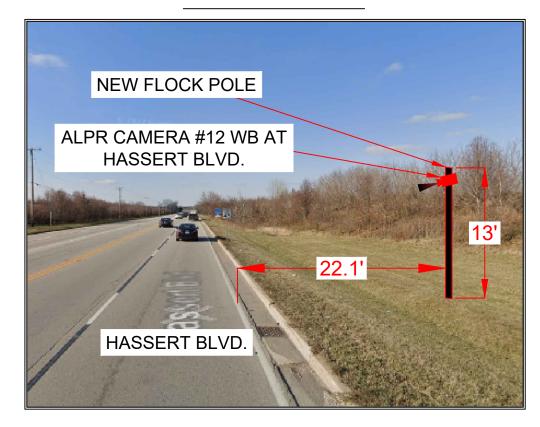
SITE ADDRESS: 11128 ESSINGTON RD.

SITE PLAN

AERIAL VIEW



STREET VIEW

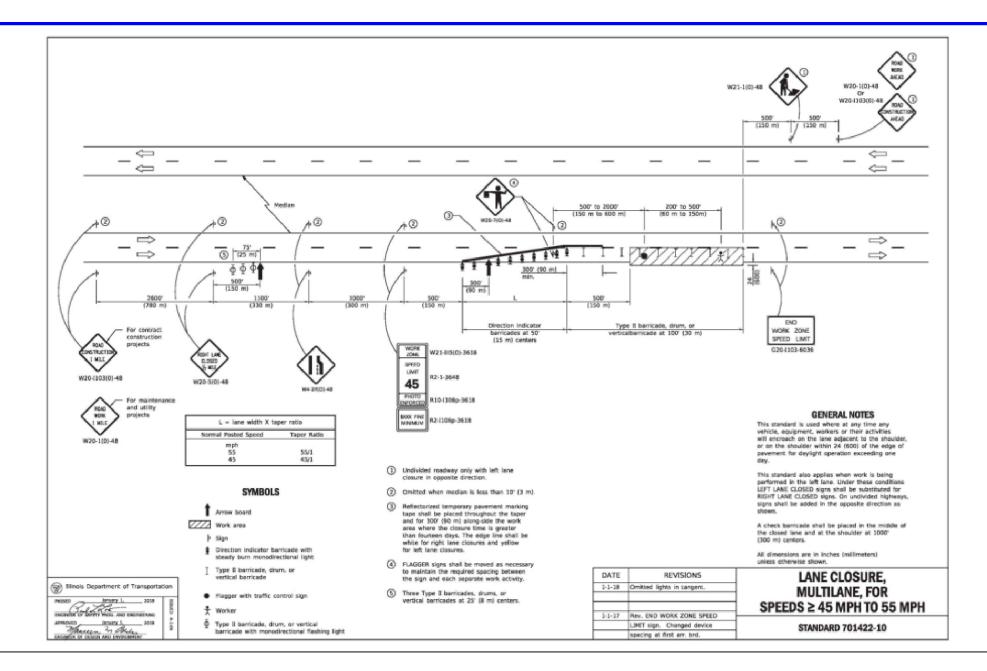


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REV	DESCRIPTION	DATE	BY	TITLE: SITE PLAN
				SIIL FLAIV
				SCOPE OF WORK: WILL COUNTY, IL
				ALPR CAMERA INSTALLATION
				ALFIT CAMILITA INSTALLATION

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APPROVED BY:	ERIC KRAVITZ	
DATE: 08/19/2	2022 SHEET: 4 OF 8	



TYPICAL APPLICATION APPLIES TO:

CAMERA #11 ON PLAINFIELD-NAPERVILLE RD. (NORTHBOUND)
BETWEEN W BOUGHTON RD. AND 104TH ST.

CAMERA #12 ON HASSERT BLVD. (WESTBOUND)
BETWEEN PLAINFIELD-NAPERVILLE RD. AND BOOK RD.

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REV	DESCRIPTION	DATE	BY	TRAFFIC CONTROL PLAN
				TRAFFIC CONTROL FLAN
				SCOPE OF WORK: WILL COUNTY, IL
				ALPR CAMERA INSTALLATION
				ALI IL CAIVILITA INSTALLATION

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CHECKED BY: NARESH CHAND

APPROVED BY: ERIC KRAVITZ

DATE: 08/19/2022 SHEET: 5 OF 8

DESIGN NOTES:

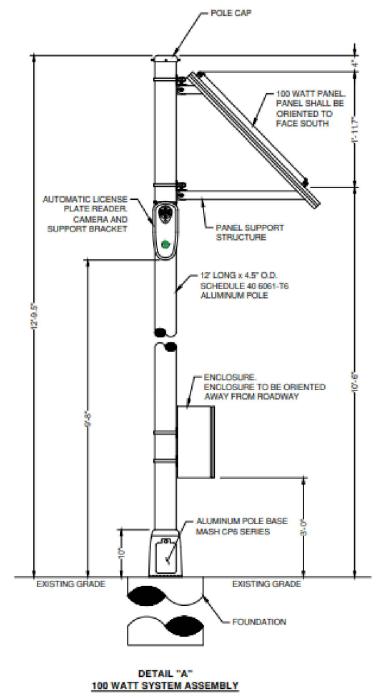
- POLE AND FOUNDATION DESIGNED PER AASTHO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 2015 EDITION WITH 2017, 2018 & 2019 INTERIMS.
- POLE DESIGN WIND SPEED IS 105 MPH BASED ON A 300-YEAR MRI.
- CONCRETE SHALL HAVE A MINIMUM 28-DAY DESIGN STRENGTH OF 3000 PSI, AND HAVE AT LEAST 505 POUNDS OF CEMENTITIOUS MATERIAL PER CUBIC YARD.
- PROVIDE A FLAT BEARING SURFACE ON TOP SURFACE ON TOP SHAFT BELOW THE POLE BASE SLOPE TOP SURFACE OF CONCRETE SHAFT OUTSIDE OF POLE BASE TO DRAIN AWAY FROM POLE.
- 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.

GENERAL & CONSTRUCTION NOTES

- CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT DESIGNATED AGENCY TO LOCATE ALL UNDERGROUND UTILITIES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO APPLY AND OBTAIN AN APPROVED TRAFFIC CONTROL PLAN IN ACCORDANCE WITH MUTCD AND LOCAL STANDARDS AS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ALL DISTURBED AREAS TO ORIGINAL CONDITION TO STATE DEPARTMENT OF TRANSPORTATION AND LOCAL AGENCY SATISFACTION AT NO ADDITIONAL COMPENSATION.
- ALL WORK SHALL CONFORM TO ALL APPLICABLE ELECTRICAL CODES EXCEPT WHEN SATE DEPARTMENT OF TRANSPORTATION AND LOCAL AGENCY STANDARDS SUPERSEDE
- CONNECT POLE TO SOLID BARE BOND GROUND & GROUNDING ROD (OR COIL 25' OF NO. 6 BARE COPPER) IN POLE FOUNDATION & TO SYSTEM GROUND BONDED BACK TO FLOCK SAFETY CABINET.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION AND LOCAL AGENCY SPECIFICATIONS UNLESS SPECIFICALLY STATED OR SHOWN OTHERWISE REPERM

ADA COMPLIANCE NOTES:

- ALL SIDEWALK CONSTRUCTION SHALL BE IN ACCORDANCE WITH ADA TITLE II AND ALL STATE DEPARTMENT OF TRANSPORTATION AND LOCAL STANDARDS.
- USE STATE DEPARTMENT OF TRANSPORTATION CURRENT EDITION STANDARDS FOR PEDESTRIAN CONTROL PLANS FOR CLOSURE OF SIDEWALK.
- MINIMUM SIDEWALK CLEAR PEDESTRIAN ACCESS ROUTE (PAR) IS 48" WIDE.
- NO OBSTRUCTION IS PERMITTED ALONG THE WIDTH OF THE SIDEWALK UP TO 7-0" IN HEIGHT.



2' LONG x 4.5" O.D. SCHEDULE ((6061 T6 ALUMINUM) GENERAL NOTES & ILUNOS STANDARD DETAILS

POLE ASSEMBLY DETAIL AUTOWATIC UCENSE PLATE READER

100 WATT SYSTEM

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REV	DESCRIPTION	DATE	BY	TITLE: POLE DETAILS
				FOLE DETAILS
				SCOPE OF WORK: WILL COUNTY, IL
				ALPR CAMERA INSTALLATION
				ALFIX CAMILITA INSTALLATION

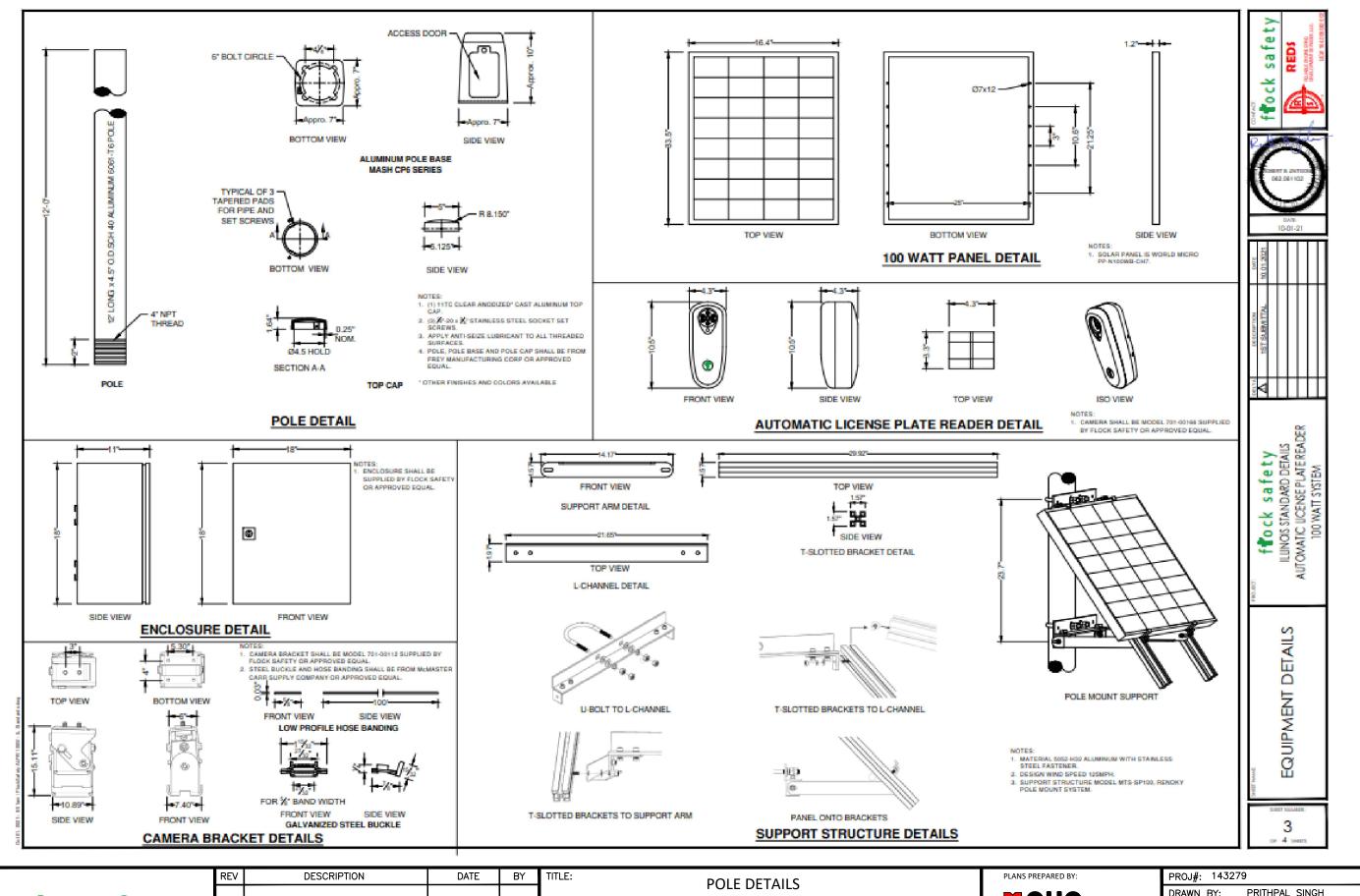
PLANS PREPARED BY:

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CHECKED BY: N	NARESH CHAND
APPROVED BY: E	ERIC KRAVITZ
DATE: 08/19/20	22 SHEET: 6 OF 8

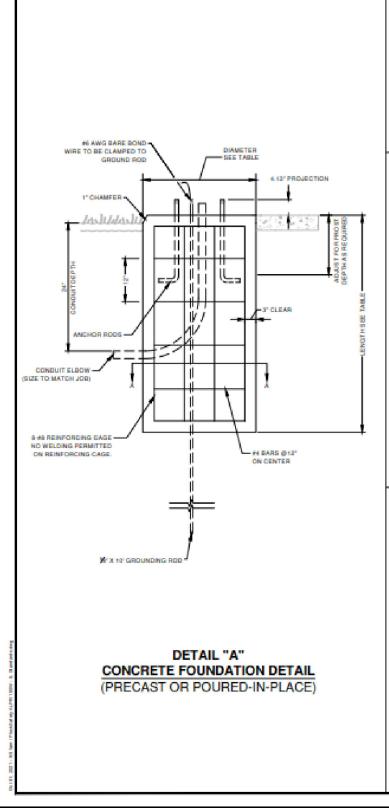


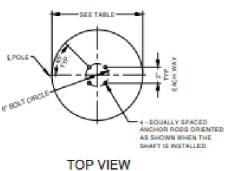
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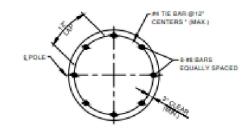
REV	DESCRIPTION	DATE	BY	TITLE: POLE DETAILS
				FOLL DETAILS
				SCOPE OF WORK: WILL COUNTY, IL
				ALPR CAMERA INSTALLATION
				ALPR CAMERA INSTALLATION

A CONGRUEX COMPANY 9095 Rio San Diego Dr. Ste 165 San Diego, CA 92108-1694

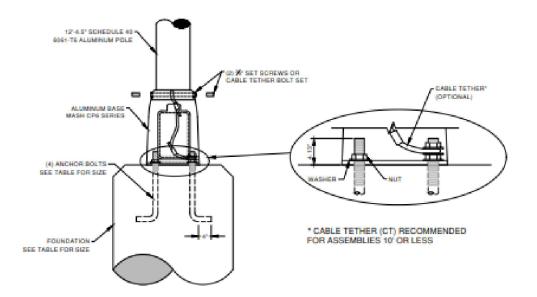
DRAWN BY: PRITHPAL SINGH CHECKED BY: NARESH CHAND APPROVED BY: ERIC KRAVITZ (949)250-0004 /FAX (949)250-0006 DATE: 08/19/2022 SHEET: 7 OF 8







SECTION A-A



BASE MOUNTING DETAIL

FOUNDATION NOTES:

- 1. CONCRETE: CLASS I WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
- 2. REINFORCING STEEL: ASTM A615, GRADE 60.
- 3. ANCHOR RODS:
 - A. RODS: ASTM F1554, GRADE 55
 - B. NUTS: ASTM A563
 - C WASHERS: ASTM F436 D. GALVANIZE ALL ITEMS IN ACCORDANCE WITH ASTM F2329.
- 4. 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.
- 5. AFTER THE POLE IS SET IN FINAL POSITION AND ALIGNMENT, APPLY A COAT OF ZINC-RICH PAINT TO THE ANCHOR ROD THREADS AND NUTS TO SEAL THE JOINT BETWEEN THE NUT AND ANCHOR ROD.
- 6. 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.

FOUNDATION DESIGN NOTES:

- 1. DESIGN CRITERIA:
 - A. AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (LRFDLTS-1) AND STATE DEPARTMENT OF TRANSPORTATION STRUCTURES MANUAL (CURRENT EDITION).
- 2. DESIGN WIND SPEED: 105 MPH
- THE FOLLOWING SOIL PROPERTIES WERE ASSUMED FOR THE FOUNDATION DESIGN. IF THE ENCOUNTERED SOIL CONDITIONS DO NOT MEET THESE ASSUMED SOIL PARAMETERS, THEN A SPECIAL FOUNDATION MUST BE DESIGNED.
 - A. SUBMERGED UNIT WEIGHT: 62.5 PCF B. INTERNAL ANGLE OF FRICTION: 32 DEGREES

POLE						FOUNDATION REINFORCEMENT		ANCHOR RODS		
TYPE	SPEED	HEIGHT	DIAMETER	DEPTH	BOLT CIRCLE (B.C.)	VERTICAL	HORIZONTAL	DIA	LENGTH	THREAD LENGTH (TOP)
LPR POLE ASSEMBLY	105 MPH	12'	11-61	4:0	6"	8 - NO .8	NO. 4 @ 12" C-C	5/8"	16.00*	67

^{*} MUST ALLOW FOR FROST DEPTH AS APPLICABLE BASED ON REGION OR LOCAL REQUIREMENTS.

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REV	DESCRIPTION	DATE	BY	POLE DETAILS
				FOLL BLIAILS
				SCOPE OF WORK: WILL COUNTY , IL ALPR CAMERA INSTALLATION

PLANS PREPARED BY:

PRITHPAL SINGH DRAWN BY: CHECKED BY: NARESH CHAND APPROVED BY: ERIC KRAVITZ DATE: 08/19/2022 SHEET: 8 OF 8

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ILUNOIS STANDARD DETAILS
AUTOWATIC LICENSE PLATE READER
100 WATT SYSTEM

DETAILS

OUNDATION

PROJ#: 143279

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