

# KITCHAWAN GROUND MOUNT PV SYSTEM

2,581.2 KW-DC SOLAR PV SYSTEM  
716 KITCHAWAN ROAD  
OSSINING, NEW YORK 10562

## SCOPE OF WORK:

TO INSTALL A GROUND MOUNTED SOLAR PHOTOVOLTAIC (PV) SYSTEM. THE POWER GENERATED BY THE PV SYSTEM WILL BE INTERCONNECTED WITH THE UTILITY GRID

THE PV SYSTEM DOES NOT INCLUDE STORAGE BATTERIES

## CODES & STANDARDS:

2017 NATIONAL ELECTRICAL CODE  
2015 INTERNATIONAL BUILDING CODE  
2018 INTERNATIONAL FIRE CODE  
UL 1741

## LOT INFORMATION:

11 +/- ACRES  
PARCEL ID # 70.06-1-2 & 70.06-1-3  
ZONING DISTRICT - R1-200 - ONE FAMILY RESIDENTIAL

## RECORD OWNER:

VAN BRUNT COCHRAN, LLC  
716 KITCHAWAN ROAD  
OSSINING, NY 10562

## RECORD APPLICANT:

ECOGY NEW YORK XIII, LLC  
315 FLATBUSH AVENUE #393  
BROOKLYN, NEW YORK 11217

## SYSTEM SUMMARY:

2,581.2 kW DC  
2000.0 kW-AC

TILT ANGLE = 25 °  
AZIMUTH = 190 °

## EQUIPMENT:

**MODULE:**  
(2,186) BOVIET 450W MODULE

**INVERTER:**  
SOLAREEDGE 100K-US INVERTER

**RACKING:**  
RBI SOLAR

**DAS:**  
ECOGY ECONODE

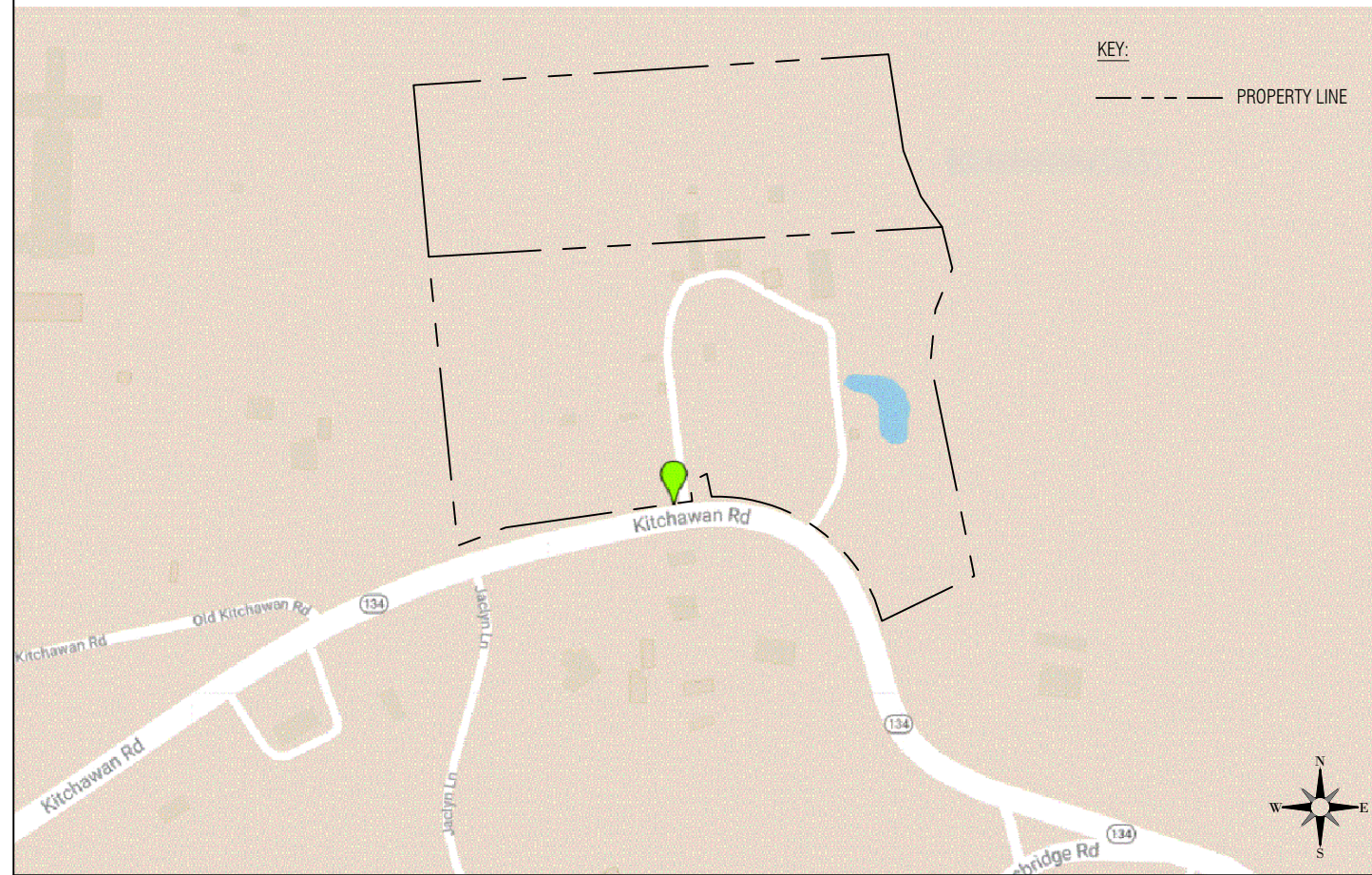
## UTILITY:

CON ED

REVIEW PLAN SET  
ISSUE DATE: 07/28/2020

## LOCATION MAP

SCALE: NTS



## SATELLITE MAP

SCALE: NTS



ECOGY ENERGY

315 FLATBUSH AVENUE, SUITE 393  
BROOKLYN, NY 11217  
projectmanagement@ecogyenergy.com  
(718)-304-0945

### Ecogy New York XI LLC

Project Name:  
**KITCHAWAN**  
2581.2 kW-DC PV SYSTEM  
GROUND MOUNT

Project Site:  
**716 KITCHAWAN ROAD,  
OSSINING, NY, 10562**

Account No: xxxxx  
New Service Case #: xxxxx

BY	DATE	REVISION DESCRIPTION	#

### Professional Stamp

SHEET NAME:

### TITLE SHEET

PROJECT NUMBER: --- DRAWN BY: DQP CHECKED BY: ---

DATE: 07/28/21 DWG. NUMBER: G-001  
SHEET NUMBER: X of X

### DRAWING LIST

DWG. NO.	DRAWING TITLE
G-001	TITLE SHEET
PV-101	SITE PLAN
PV-101.1	PARTIAL SITE PLAN
PV-200	GROUND MOUNT ELEVATION
PV-507	MISCELLANEOUS DETAILS

**UTILITY EQUIPMENT KEY:**

- ① NEW UTILITY OWNED 2000 KVA TXFMR  
13.2 KV WYE PRIMARY, 480 V WYE SECONDARY
- ② UTILITY OWNED RECLOSER POLE AND DISCONNECT
- ③ EXISTING UTILITY POLE #W.55

**CUSTOMER EQUIPMENT KEY:**

- A AC DISCONNECT SWITCH (PV SYSTEM)  
SOLAREGE INVERTERS  
AC COMBINER PANEL  
PV SYSTEM UTILITY METER  
DAS
- B (NEW) CUSTOMER OWNED RISER POLE WITH UTILITY  
SUPPLIED KYLE SWITCH TO BE INSTALLED BY CUSTOMER

**NOTE:**

1. MEADOW SEED MIXTURE TO BE PLANTED BETWEEN PV ARRAY ROWS
2. FENCING AROUND THE ARRAY WILL BE WILDLIFE FRIENDLY

**SYMBOLS LEGEND:**

- ⊗ EXISTING UTILITY POLE
- ⊙ PROPOSED UTILITY POLE

**LINETYPE LEGEND:**

- - - - - APPROXIMATE PROPERTY LINE
- - - - - PROPERTY LINE SETBACK
- x-x-x- PROPOSED CHAINLINK FENCE
- OE-OE- OVERHEAD ELECTRIC
- UE-UE- UNDERGROUND ELECTRIC
- · · · - APPROXIMATE WETLAND BOUNDARY GIS
- - - - - 10' ARRAY SETBACK



Module Count = 5736  
Boviet 450W MODULE  
190 deg AZIMUTH  
2,581 KW-DC



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Account No: xxxxx  
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SCG	BY	DATE	REVISION DESCRIPTION
1	#	7/8/2021	UPDATED ARRAY LAYOUT AND MISC NOTES

Professional Stamp  
**PRELIMINARY**

SHEET NAME:  
**SITE PLAN**  
PROJECT NUMBER: --- DRAWN BY: SCG CHECKED BY: JLA  
DATE: 07/28/21 DWG. NUMBER:  
SHEET NUMBER: X of X **PV-100**

**UTILITY EQUIPMENT KEY:**

- ① NEW UTILITY OWNED 2000 kVA TXFMR  
13.2 KV WYE PRIMARY, 480 V WYE SECONDARY
- ② UTILITY OWNED RECLOSER POLE AND DISCONNECT
- ③ EXISTING UTILITY POLE #W.55



**CUSTOMER EQUIPMENT KEY:**

- A AC DISCONNECT SWITCH (PV SYSTEM)  
SOLAREGE INVERTERS  
AC COMBINER PANEL  
PV SYSTEM UTILITY METER  
DAS
- B (NEW) CUSTOMER OWNED RISER POLE WITH UTILITY  
SUPPLIED KYLE SWITCH TO BE INSTALLED BY CUSTOMER

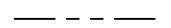
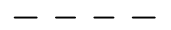
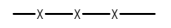
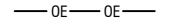
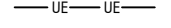
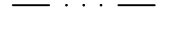

**NOTE:**

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2. FENCING AROUND THE ARRAY WILL BE WILDLIFE FRIENDLY

**SYMBOLS LEGEND:**

-  EXISTING UTILITY POLE
-  PROPOSED UTILITY POLE

**LINETYPE LEGEND:**

-  APPROXIMATE PROPERTY LINE
-  PROPERTY LINE SETBACK
-  PROPOSED CHAINLINK FENCE
-  OVERHEAD ELECTRIC
-  UNDERGROUND ELECTRIC
-  APPROXIMATE WETLAND BOUNDARY GIS
-  10' ARRAY SETBACK



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GROUND MOUNT

Project Site:  
**716 KITCHAWAN ROAD,  
OSSINING, NY, 10562**

Account No: xxxxx  
New Service Case #: xxxxx

#	REVISION DESCRIPTION	DATE	BY

Professional Stamp

PRELIMINARY

SHEET NAME:  
**PARTIAL  
SITE PLAN**

PROJECT NUMBER: ---	DRAWN BY: SCG	CHECKED BY: ---
DATE: 07/28/21	DWG. NUMBER:	
SHEET NUMBER: X of X	<b>PV-100</b>	



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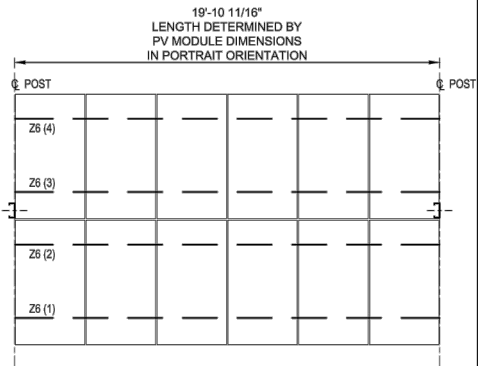
SHEET NAME:  
**GROUND MOUNT  
ELEVATION**

PROJECT NUMBER: --- DRAWN BY: DQP CHECKED BY:

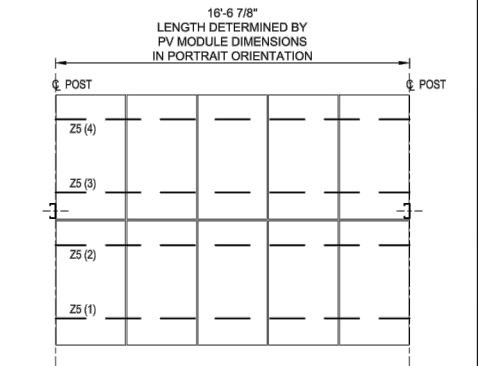
DATE: 07/28/21 DWG. NUMBER:

SHEET NUMBER: X of X

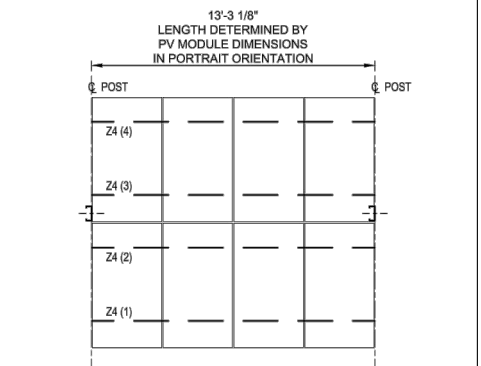
**PV-200**



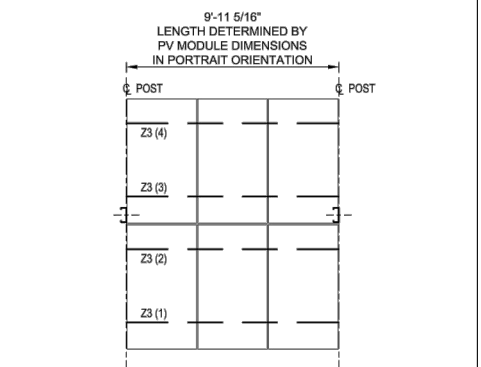
**G10 6P2  
BAY PLAN VIEW**



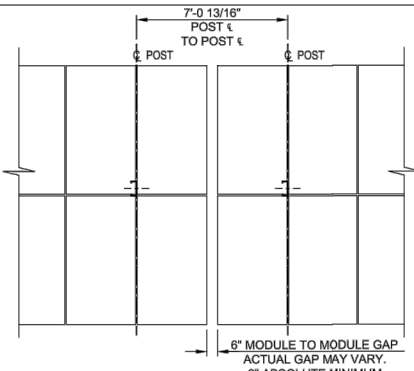
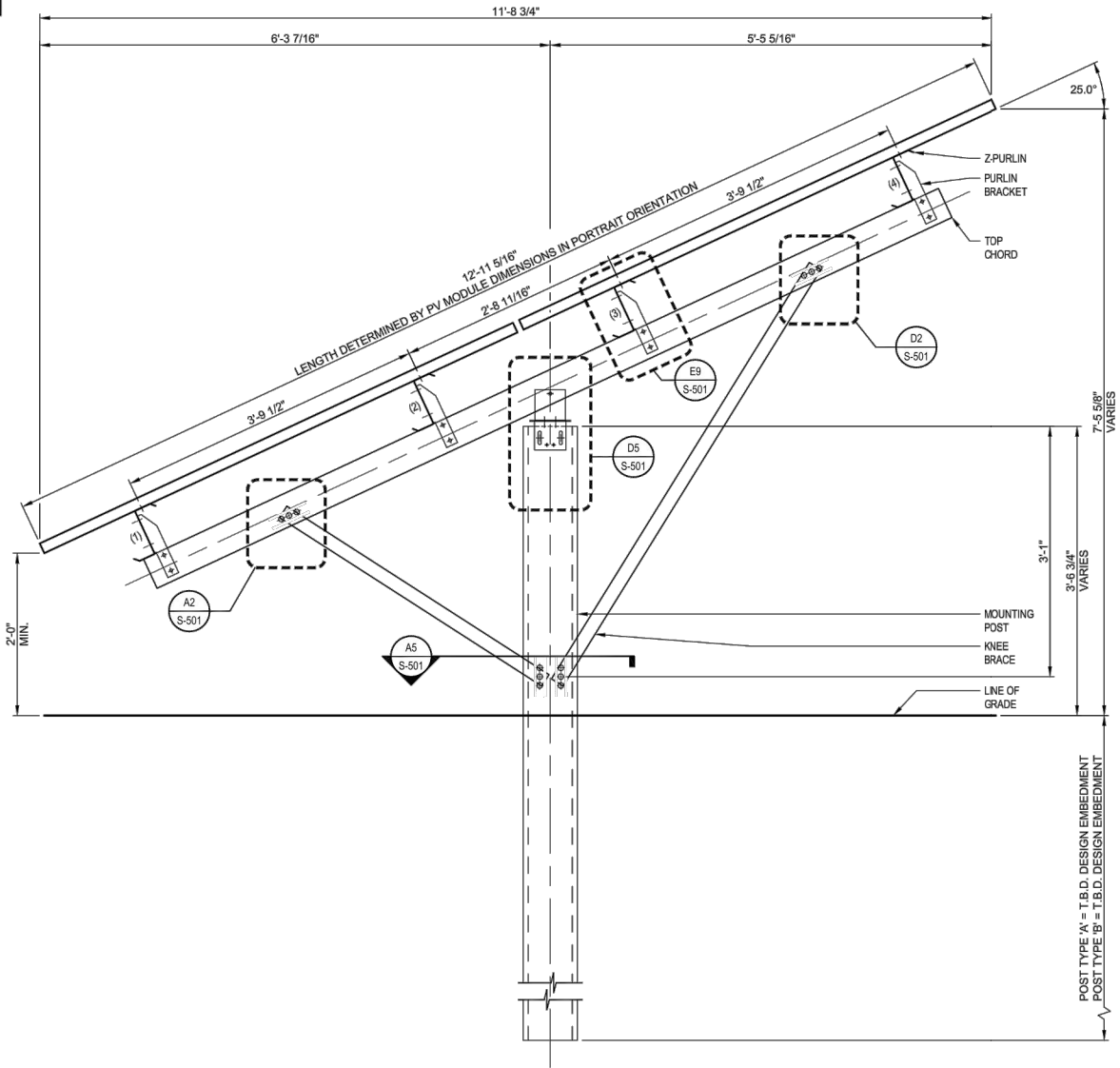
**E10 5P2  
BAY PLAN VIEW**



**C10 4P2  
BAY PLAN VIEW**



**A10 3P2  
BAY PLAN VIEW**



**G1 TYPICAL  
ROW BREAK DETAIL**

NOTE: COMPONENTS SHOWN MAY VARY FROM ACTUAL CONFIGURATION.  
SEE INDIVIDUAL BAY PLANS THIS SHEET FOR MORE DETAILED PLANS.

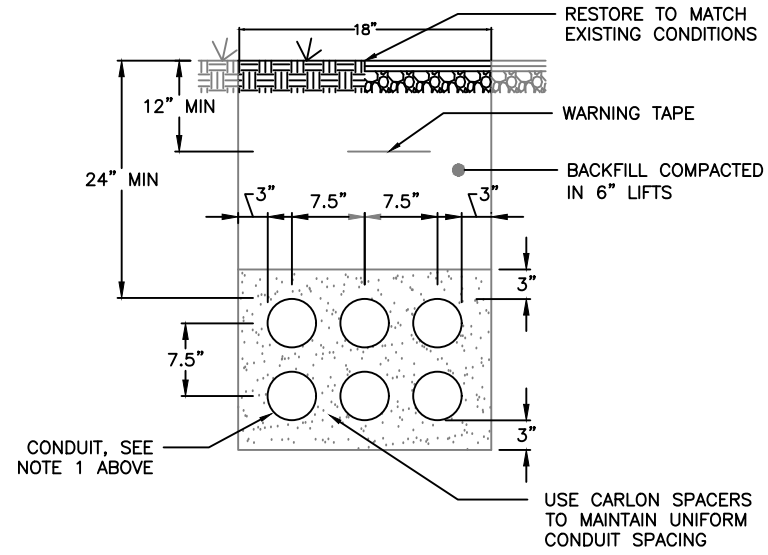
NOTE:  
IF DESIGN EMBEDMENT IS NOT ACHIEVED, REFERENCE  
DRIVEN POST EMBEDMENT NOTES ON SHEET G-002.

- NOTE:
- Z-PURLINS #1 & #4 HAVE RAISED MODULE MOUNTING SLOTS. (REF. E7/S-501)
  - Z-PURLINS #2 & #3 HAVE FLAT MODULE MOUNTING SLOTS. (REF. E7/S-501)

NOTE:  
FULLY DRIVEN PILE.

**A1 DESIGN  
RACK SECTION**

#	REVISION DESCRIPTION	DATE	BY

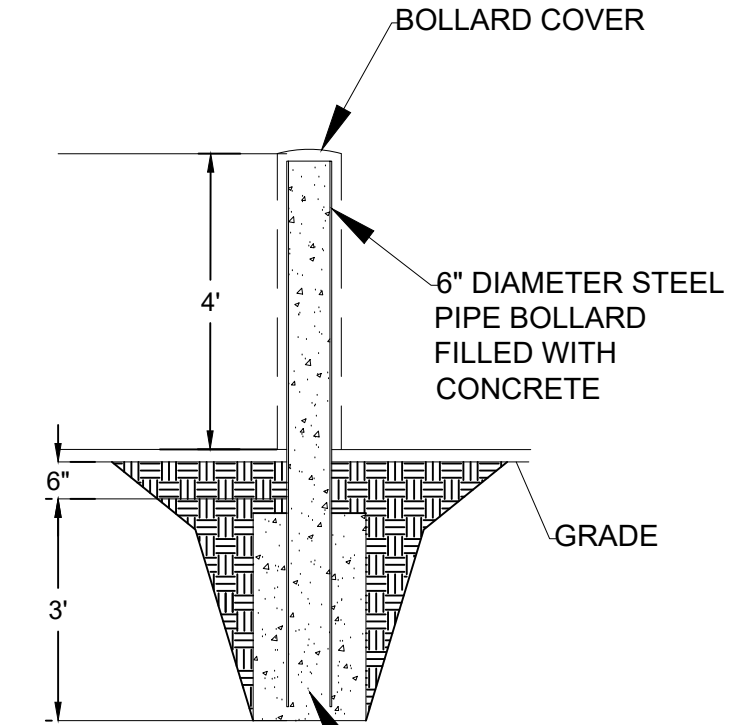


NOTE:

- ALL UNDERGROUND CONDUIT SHALL BE PVC AND TRANSITION TO RMC FOR ELBOW. RMC ELBOW DOES NOT NEED TO BE BONDED IF ANY PART OF THE ELBOW IS 18" DEEP (NEC 250.86 EXCEPTION 3)
- UNDER ROADS AND PARKING AREAS ENCASEMENT SHALL BE 3000 PSI CONCRETE. UNDER GRASSY AREAS ENCASEMENT SHALL BE SAND
- COORDINATE WITH DIG SAFE AND LOCAL UTILITIES PRIOR TO EXCAVATING

**TRENCH DETAIL**

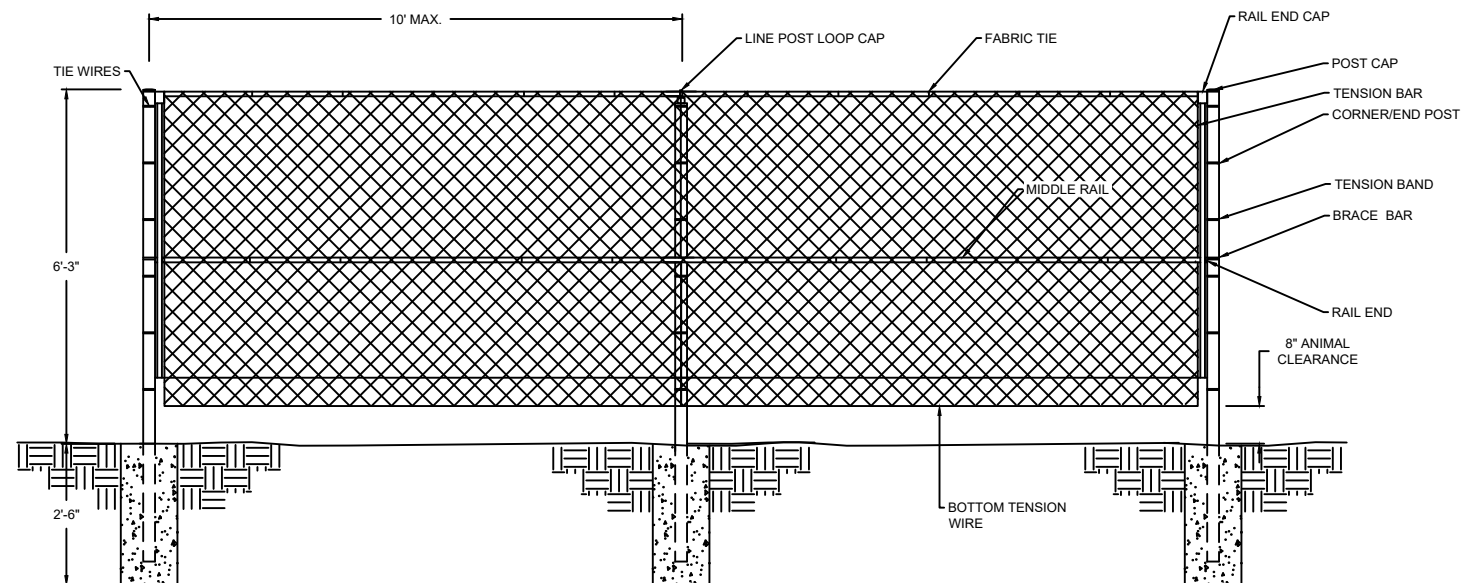
N.T.S.



BOLLARD FOUNDATION,  
12" MIN, 3000PSI  
CONCRETE

**BOLLARD DETAIL**

N.T.S.



**FENCE DETAIL**

N.T.S.

NOTE:

- FENCING TO BE ANIMAL FRIENDLY WITH AN 8" MIN. CLEARANCE FROM BOTTOM OF FENCE TO THE GROUND.

Professional Stamp

SHEET NAME:  
**MISC. MECHANICAL  
DETAILS**

PROJECT NUMBER: ---	DRAWN BY: DQP	CHECKED BY: ---
DATE: 07/28/21	DWG. NUMBER:	
SHEET NUMBER: X of X	<b>PV-507</b>	