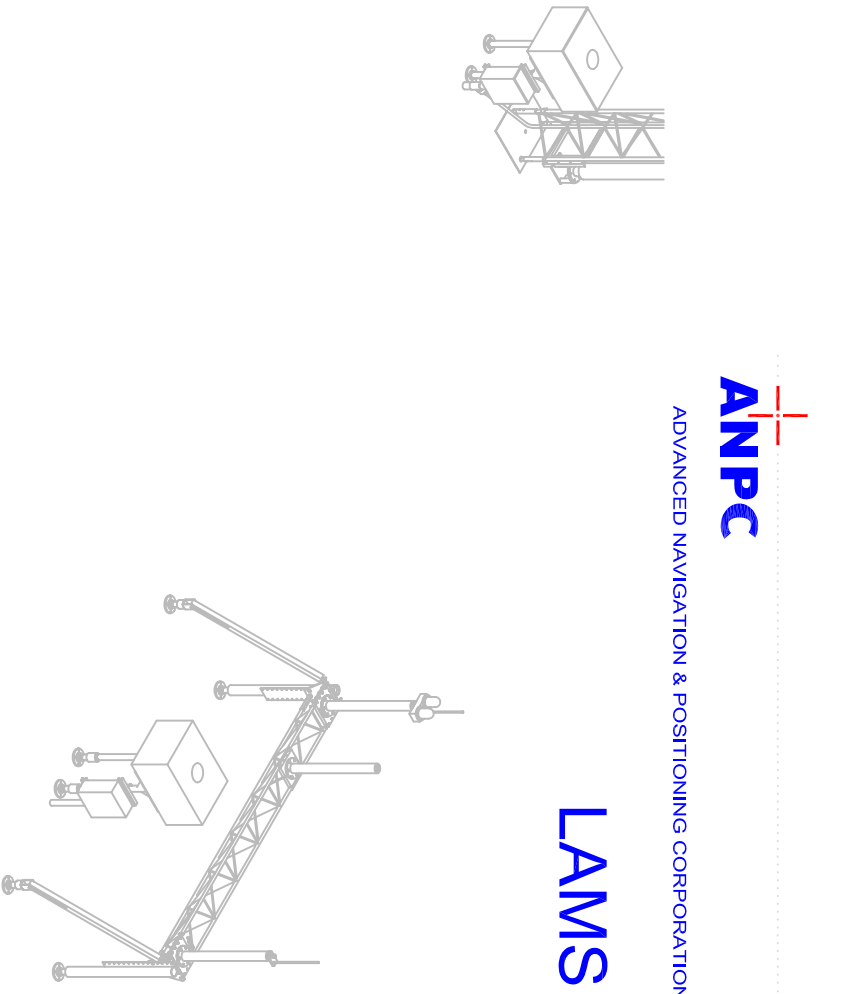


REV		DESCRIPTION	DATE	APPROVED
1	INITIAL DESIGNING		13/07/23	

REVISIONS

823-00396



ADVANCED NAVIGATION & POSITIONING CORPORATION

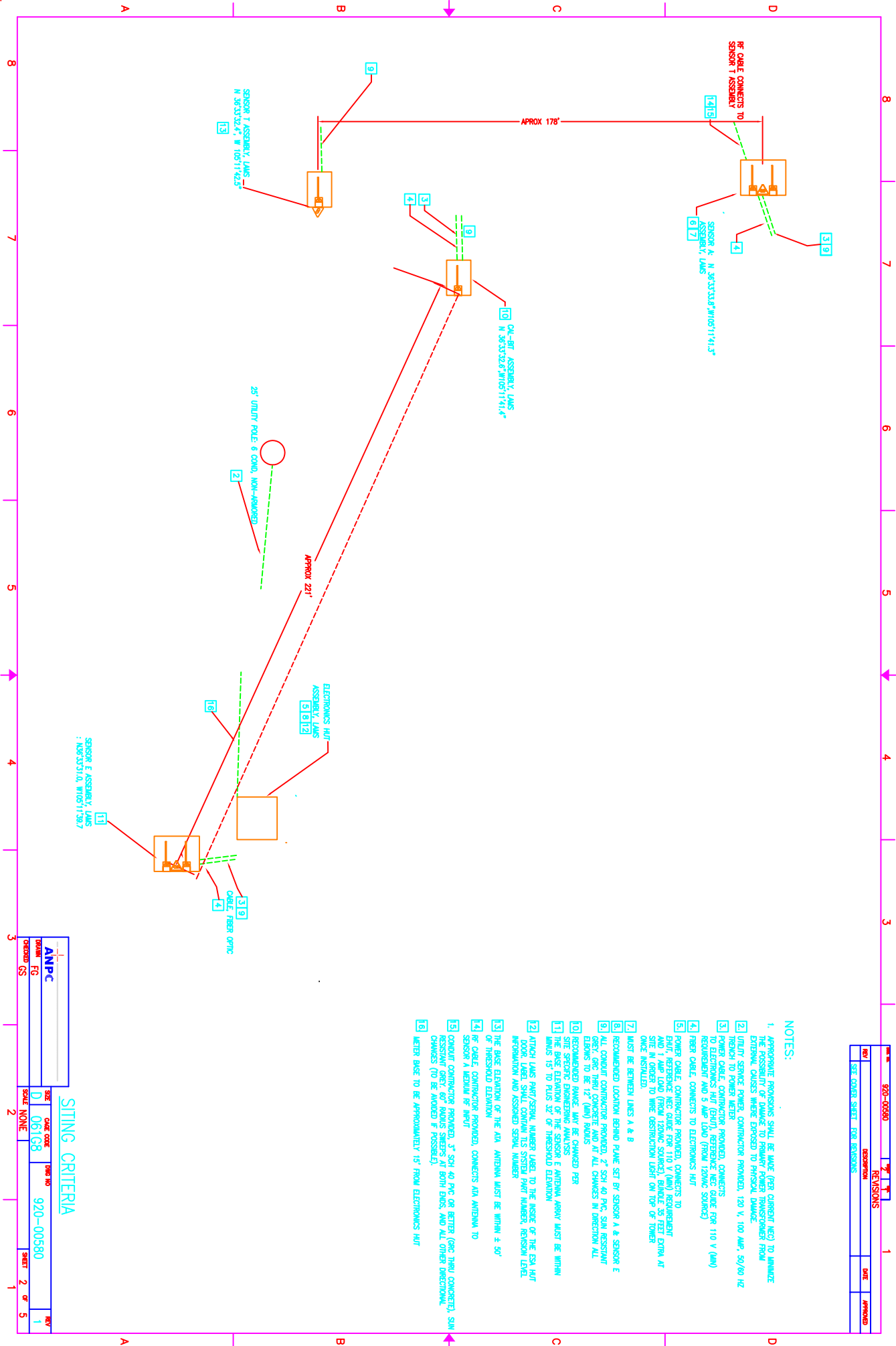
LAMS

DATE	13/07/23	APPROVED	
REV	1	INITIAL DESIGNING	
TITLE			
ANPC			
ADVANCED NAVIGATION & POSITIONING CORPORATION			
11, 2ND FLOOR, 4008 HWY. 60, DENV.			
PROJECT NAME			
LAMS GREEN MTLN LAYOUT PLAN			
COVER PAGE			
SIZE	CHG CODE	DATE	REV
D	061G8	13/07/23	1
SCALE	1/1	REV ASSY	
DATE	13/07/23	DESIGNED	
DATE	13/07/23	CHECKED	
DATE	13/07/23	APPROVED	

920-00580		REVISIONS	DATE	APPROVED
REV	DESCRIPTION			
SEE COVER SHEET FOR REVISIONS				

NOTES:

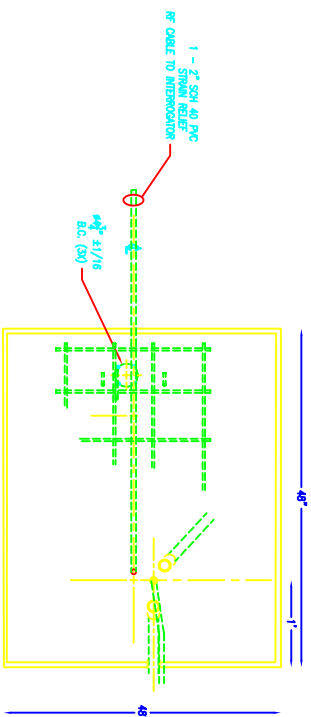
1. APPROPRIATE PROVISIONS SHALL BE MADE (PER CURRENT NEC) TO MINIMIZE THE RISK OF FIRE TO THE BUILDING AND TO THE SURROUNDING AREA FROM EXTERNAL CAUSES WHERE EXPOSED TO PHYSICAL DAMAGE.
2. UTILITY SERVICE POWER, CONTRACTOR PROVIDED, 120 V, 100 AMP, 50/60 HZ, TYPICAL TO POWER CENTER.
3. POWER CABLE, CONTRACTOR PROVIDED, CONNECTS TO ELECTRONICS HUT (EHT), REFERENCE NEC GUIDE FOR 110 V (4AW) REQUIREMENT AND 5 AMP LOAD (FROM 120VAC SOURCE).
4. FIBER CABLE, CONTRACTOR PROVIDED, CONNECTS TO EHT, REFERENCE NEC GUIDE FOR 110 V (4AW) REQUIREMENT AND 1 AMP LOAD (FROM 120VAC SOURCE), BUNDLE 35 FEET EXTRA AT SITE IN ORDER TO MEET OBSTRUCTION CLEAR ON TOP OF TOWER ONCE INSTALLED.
5. POWER CABLE, CONTRACTOR PROVIDED, CONNECTS TO EHT, REFERENCE NEC GUIDE FOR 110 V (4AW) REQUIREMENT AND 1 AMP LOAD (FROM 120VAC SOURCE), BUNDLE 35 FEET EXTRA AT SITE IN ORDER TO MEET OBSTRUCTION CLEAR ON TOP OF TOWER ONCE INSTALLED.
6. MUST BE BETWEEN LINES A & B.
7. RECOMMENDED LOCATION BEHIND PLUMB SET BY SENSOR A & SENSOR E.
8. ALL CONDUIT CONTRACTOR PROVIDED, 2" SCH 40 PVC, 5/8" DIA, RESISTANT TO GREY, ORG. THRU CONCRETE AND AT ALL CHANGES IN DIRECTION ALL ELBOWS TO BE 12" (MIN) RADII.
9. RECOMMENDED WAVE, MAY BE CHANGED PER SITE SPECIFIC ENGINEERING ANALYSIS.
10. THE SPECIFIC ELEVATION OF THE SENSOR E ANTENNA ARRAY MUST BE WITHIN 15' TO PLUS OR MINUS 3' OF THRESHOLD ELEVATION.
11. ATTACH LAMS PART/SERIAL NUMBER LABEL TO THE INSIDE OF THE ESH HUT DOOR, LABEL SHALL CONTAIN ITS SYSTEM PART NUMBER, REVISION LEVEL, INFORMATION AND ASSIGNED SERIAL NUMBER.
12. THE BASE ELEVATION OF THE ANTENNA MUST BE WITHIN ± 50' OF THRESHOLD ELEVATION.
13. RF CABLE, CONTRACTOR PROVIDED, CONNECTS ANTENNA TO SENSOR A MEDIUM RF INPUT.
14. CONDUIT CONTRACTOR PROVIDED, 1" SCH 40 PVC OR BETTER (ORG THRU CONCRETE), RESISTANT GREY, 60" MINUS SWEPS AT BOTH ENDS, AND ALL OTHER DIRECTIONAL CHANGES (TO BE AVOIDED IF POSSIBLE).
15. METER BASE TO BE APPROXIMATELY 15' FROM ELECTRONICS HUT.



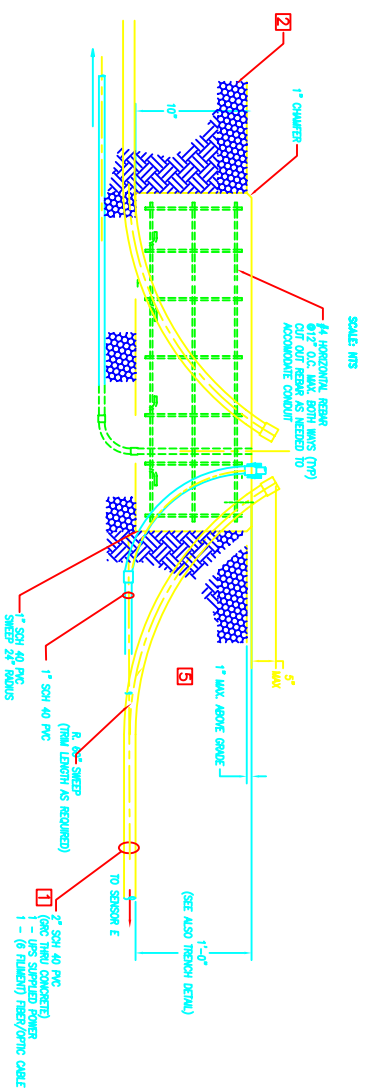
ANPC		DATE	920-00580	REV
FORM	FG	D	06168	1
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SITING CRITERIA

REV. NO.	920-00580	REV	1
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
	SEE COVER SHEET FOR REVISIONS		



- 1 ALL CONCRETE TO BE 2" SLOPED 4" PVC EXCEPT TYPICALLY USE GRB. THRU CONCRETE AND ALL CHANGES IN DIRECTION. ALL 2" SLOPED 4" PVC TO BE 12" MINIMUM COVER. ALL 2" ELBOWS TO BE 12" MIN. (CONDUIT SUPPLIED BY CONTRACTOR)
- 2 CRUSHED ROCK 6" DEEP MAXIMUM AGGREGATE SIZE 1".
- 3 ALL CONCRETE SHALL DEVELOP MAXIMUM 4000 PSI IN 28 DAYS WITH A MAXIMUM SLOPE OF 3". MAXIMUM AGGREGATE SIZE SHALL BE 3/4". VIBRATE CONCRETE WHEN POURED IF FILL OR GRADING IS REQUIRED IT SHALL BE SPLIT UP IN LAYERS NOT EXCEEDING 6" EACH LAYER SHALL BE VIBRATED TO FULLLY COMPACT. ALL CONCRETE SHALL HAVE MAXIMUM DENSITY AT OPTIMUM WATER CONTENT. GRADING OF ROCK AND SOIL SHOULD BE SUCH THAT ALL DRAINAGE IS AWAY FROM FOUNDATION.
- 3 COVER GROUND WITH LANDSCAPE CLOTH PRIOR TO COVERING WITH CRUSHED ROCK 6" AROUND THE PERIMETER OF THE FOUNDATION. MAXIMUM AGGREGATE SIZE 1".
6. TOLERANCE FOR DIMENSIONS OF CONDUIT $\pm 1/4"$ - B.C. $\pm 1/16"$ LOCATIONS OF BOLT ARMS AND CONDUIT $\pm 1/4"$ - B.C. $\pm 1/16"$



ELEVATION VIEW

ELECTRONIC HUT FOUNDATION

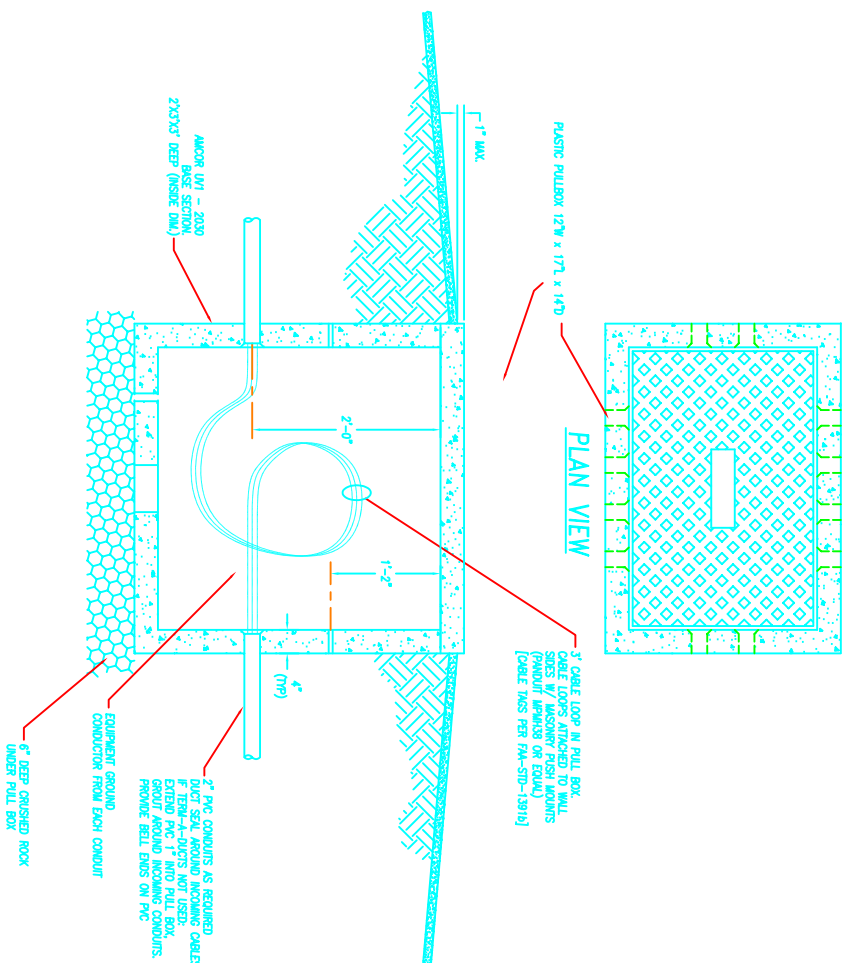
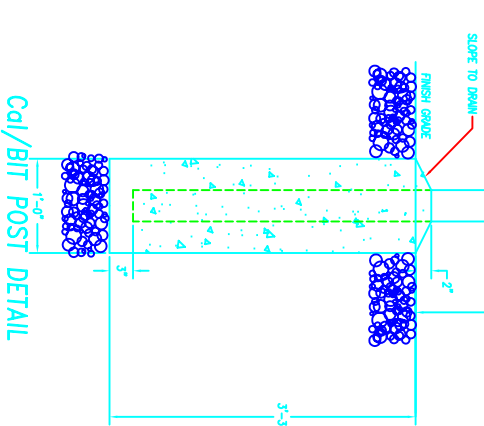
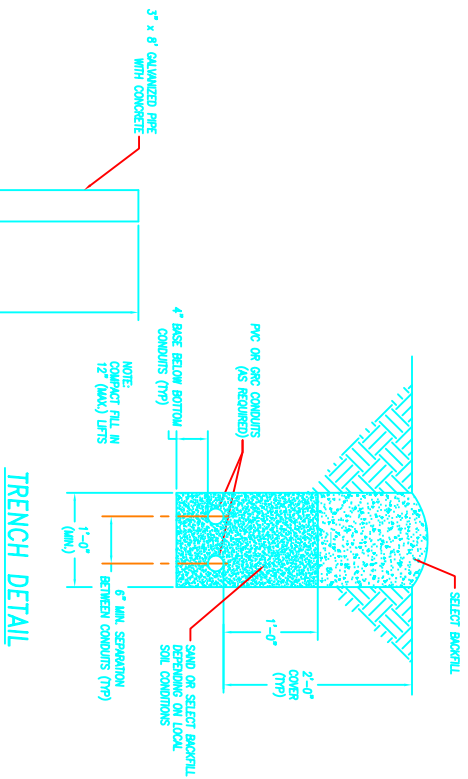
ANPC		SIZE	CAGE CODE	INS NO	REV
DRAWN		D	061C8	920-00580	1
CHECKED		SCAL NOTED		SHEET	OF
FGRAY				3	6

NOTE: ALL POWER AND CONTROL (FIBER OPTIC) CABLES SHALL BE TAGGED PER FM-C-1391b, 3.5.1

USE ALUMINUM .002" THICK PUNCTURE-RESISTANT MARKERS (1-3/4"x3-7/8") W/ PERMANENT LETTERING TO IDENTIFY EACH CABLE GROUP

CABLE IDENTIFICATION METHOD AND EXACT CORDING SHALL BE COORDINATED WITH AISC ENGR

UPON AISC SITE MANAGER'S APPROVAL, 1-897 LIGHT BASE MAY BE USED IN PLACE OF MAJOR U/V-2030 PULL-BOX IDENT. MARKER



TYPICAL PULL BOX DETAIL

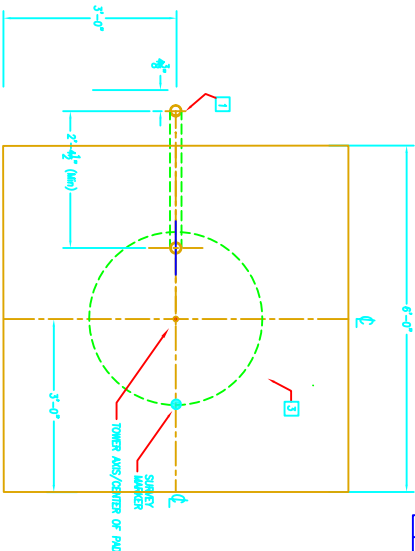
GENERAL CONSTRUCTION DETAILS

REV. NO.	920-00560	REV.	1
REVIEWS			
REV.	DESCRIPTION	DATE	APPROVED
SEE COVER SHEET FOR REVISIONS			

ANPC		SIZE	QUAT CODE	QWAL NO	SHEET		OF	REV
DRAWN FRYAY		D	061G8		920-00580		4	5
ORDERED		SCALE		NONE				

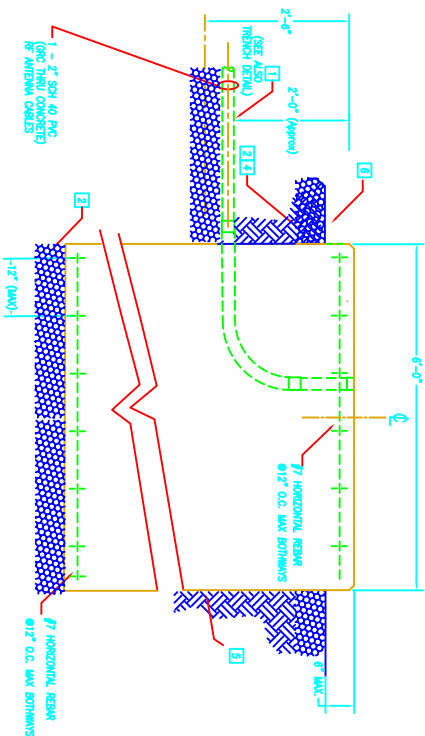
920-00580		3'	1'
REVISIONS			
NO.	DESCRIPTION	SHEET	APPROVED
SEE COVER SHEET FOR REVISIONS			

- NOTES:
- ALL CONCRETE TO BE 2" SCHED. 40 PRC EXCEPT USE GRC FOR ALL OTHERS. ALL CONCRETE SHALL BE PLACED IN LAYERS NOT TO EXCEED 6". GRC TO BE USED ABOVE SLAB, EXCEPT AS NOTED FOR LIQUID-TIGHT. ALL 2" ELBOWS TO BE 1/2" RADII. (CONDUIT SUPPLIED BY CONTRACTOR)
 - CRUSHED ROCK 6" DEEP, MINIMUM AGGREGATE SIZE 1".
 - ALL CONCRETE SHALL DEVELOP 3000 PSI [1560kg PER 0.025M] IN 28 DAYS WITH MINIMUM CURING TIME OF 7 DAYS. (VIBRATE CONCRETE WHEN POURED).
 - IF FILL OR GRAVING IS REQUIRED, IT SHALL BE BUILT UP IN LAYERS, NOT TO EXCEED 6". EACH LAYER SHALL BE PLACED, VIBRATED AND FINISHED TO THE MAXIMUM DENSITY AT OPTIMUM WATER CONTENT. GRAVING OF ROCK AND SOIL SHOULD BE SUCH THAT ALL DRAINAGE IS AWAY FROM FOUNDATION.
 - FOOTING SHALL EXTEND 42" BELOW
 - COVER GROUND WITH LANDSCAPE CLOTH PRIOR TO COVERING WITH CRUSHED ROCK 6" AROUND THE PERIMETER OF THE FOUNDATION. MINIMUM AGGREGATE SIZE 1".
 - PIPER DEPTH BELOW GRADE SHALL BE DETERMINED PRIOR TO SITE SPECIFIC INSULATION AND NOTED ON CONSTRUCTION DRAWINGS.



PLAN VIEW – SENSOR TOWER BASE

(SEE ALSO TOWER ANCHOR DETAIL)



TO BASE SHELTER

SENSOR TOWER BASE ELEVATION VIEW

TOWER DETAILS

SCALE: 1" = 1'-0"

ANPC		DATE	06/16/20	REV	2
DESIGN		DATE	06/16/20	REV	2
CHECKED		DATE	06/16/20	REV	2
SCALE		NOTED	1" = 1'-0"	SHEET	5 OF 5

