

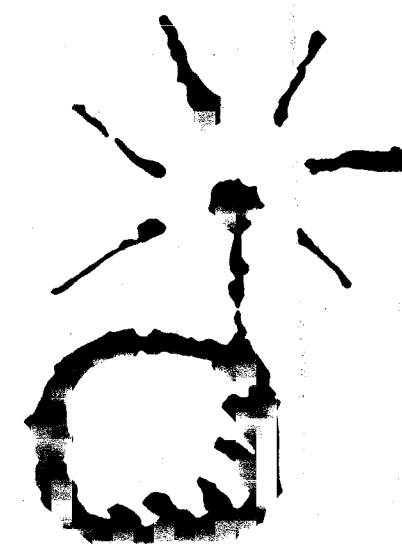
ABBREVIATIONS

ADJ	ADJUSTABLE	SF	SQUARE FOOT
APPROX	APPROXIMATE	SHT	SHEET
CAB	CABINET	SIM	SIMILAR
CLG	CEILING	SS	STAINLESS STEEL
CONC	CONCRETE	STL	STEEL
CONT	CONTINUOUS	TOC	TOP OF CONCRETE
CJ	CONSTRUCTION JOINT	TOM	TOP OF MASONRY
DIA	DIAMETER	TYP	TYPICAL
DWG	DRAWING	VIF	VERIFY IN FIELD
EGB	EQUIPMENT GROUND BAR	UON	UNLESS OTHERWISE NOTED
EA	EACH	WNF	WELDED WIRE FABRIC
ELEC	ELECTRICAL	W	WITH
EL	ELEVATION	BTS	BASE TRANSMISSION STATION
EQ	EQUAL	PCS	PERSONAL COMMUNICATIONS SERVICES
EQUIP	EQUIPMENT	A-I	ANTENNA MARK NO.
EXT	EXTERIOR	CL	CENTERLINE
FF	FINISHED FLOOR	PL	PLATE
GA	GAUGE	&	AND
GALV	GALVANIZED	@	AT
GC	GENERAL CONTRACTOR		
GRND	GROUND		
LG	LONG		
MAX	MAXIMUM		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MGB	MASTER GROUND BAR		
MIN	MINIMUM		
MTL	METAL		
NIC	NOT IN CONTRACT		
NTS	NOT TO SCALE		
OC	ON CENTER		
OPP	OPPOSITE		

SYMBOLS AND MATERIALS

	NEW ANTENNA		GROUT OR PLASTER
	EXISTING ANTENNAS		BRICK
	ASPHALT		MASONRY
	CONCRETE		CONCRETE
	ELECTRIC BOX		EARTH
	LIGHT POLE		GRAVEL
	FND. MONUMENT		PLYWOOD
	SPOT ELEVATION		SAND
	SET POINT		WOOD CONT.
	REVISION		WOOD BLOCKING
	GRID REFERENCE		STEEL
	DETAIL REFERENCE		CENTER LINE
	ELEVATION		PROPERTY LINE
	SECTIONS & DETAILS		STEPPED FOOTING
			MATCH LINE
			WORK POINT
			COAXIAL CABLE

CONTRACTOR SHALL REFER TO PRIMECO'S DETAILED SPECIFICATIONS FOR CELL SITES FOR ANY ITEMS OR WORK NOT LISTED OR DETAILED HEREON. STANDARD SPECIFICATIONS SHALL SUPERCEDE WHERE CONFLICTS OCCUR.



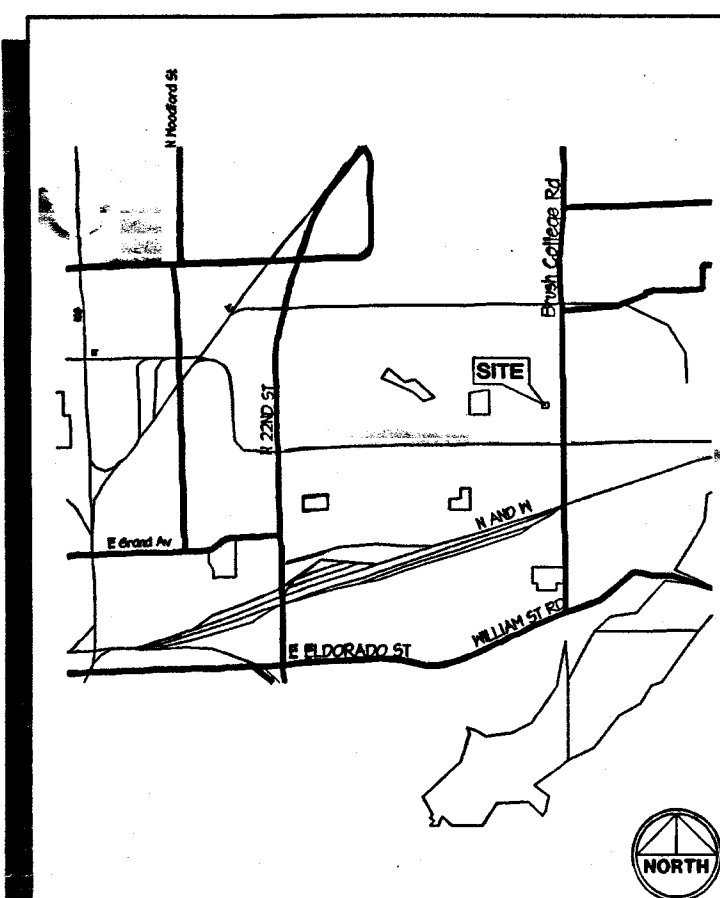
PRIMECOSM
PERSONAL COMMUNICATIONS

DECATUR N.E.

2205 BRUSH COLLEGE ROAD
DECATUR, ILLINOIS 62526

CGB 3617-2

PROPOSED COMMUNICATION SITE WITH 150' MONOPOLE AND 8'x12' EQUIPMENT SHELTER



VICINITY MAP NO SCALE

DRIVING DIRECTIONS

FROM PRIMECO OFFICES IN ITASCA:

FROM CHICAGO TAKE 55 SOUTH TO BLOOMINGTON AND EXIT 51 SOUTH INTO DECATUR. AT NORTH SIDE OF DECATUR EXIT OFF 51 SOUTH ONTO T2 GOING EAST. THEN EXIT HIGHWAY 48 (22 ND STREET) GOING SOUTH. TAKE FIRST LEFT ONTO BRUSH COLLEGE ROAD CONTINUING SOUTH. FOLLOW BRUSH COLLEGE ROAD 2.5 MILES TO FS SEEDS WAREHOUSE ON RIGHT. SITE IS AT REAR OF PROPERTY.

SITE NUMBER: CGB 3617-2

SITE NAME: DECATUR N.E.

SITE ADDRESS: 2205 BRUSH COLLEGE ROAD,
DECATUR, ILLINOIS 62526

PROPERTY OWNER: FS SERVICES

LOT NUMBER: 6

BLOCK NUMBER: N/A

APPLICANT: PRIMECO PERSONAL COMMUNICATIONS, L.P.
ONE PIERCE PLACE, SUITE 1100
ITASCA, ILLINOIS 60143

CONTACT PERSON: JOE PECKENS
CONTACT PHONE NO.: (630) 773-1600

ASSESSOR'S
PARCEL NO.: 13-06-471-01

PROJECT SUMMARY

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	
LS-1	SITE SURVEY	
Z-1	SITE PLAN	
Z-2	ELEVATIONS	
A-1	SITE PLAN, AND PROJECT NOTES	
A-2	ANTENNA LOCATION PLAN, SECTIONS AND ELEVATIONS	
A-3	SECTIONS	
S-1	SCREW ANCHOR FOUNDATION SECTIONS, AND DETAILS	
E-1	ELECTRICAL PLAN, RISER, NOTES, DETAILS	
E-2	GROUNDING RISER AND DETAILS	
E-3	ELEVATIONS, AND ANTENNA SCHEDULE	

SHEET INDEX

PROFESSIONAL ENGINEER



LICENSED PROFESSIONAL ENGINEER - STATE OF ILLINOIS

SCOTT R. TRIPPAHN
EXPIRES: 11/30/97 SIGNED: / /

PRIMECOSM
PERSONAL COMMUNICATIONS
ONE PIERCE PLACE
SUITE 1100
ITASCA, ILLINOIS 60143
OFFICE: (630) 773-1600
FAX: (630) 285-1580

APPROVALS

PRIMECO _____
LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
BSIE _____
FIXNET _____

PROJECT NO. T97176

DRAWN BY: CDG

CHECKED BY: KMM

4	08-12-97	REVISED FENCE HT.
3	08-11-97	ADDED LANDSCAPING
2	07-14-97	FOR CONSTRUCTION
1	07-10-97	FOR ZONING



W-T ENGINEERING, INC.
CONSULTING ENGINEERS
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CGB 3617-2
DECATUR N.E.

2205 BRUSH COLLEGE RD.
DECATUR, ILLINOIS

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1
EXHIBIT A

ANTENNA AZIMUTHS:
0°, 120°, 240°

FENCE

CONTRACTOR TO RESTORE ALL
DAMAGED AREAS CAUSED BY
CONSTRUCTION TO ORIGINAL
CONDITION

NEW 30'x30'
PRIMECO LEASE
AREA

OUTLINE OF ANTENNA
PLATFORM ABOVE

NEW 150' MONOPOLE

(24) MISSION ARBORVITAE 5' O.C.
thuja occidentalis 'techny'

NEW TOWER BASE GRADE
ELEV=670.15'

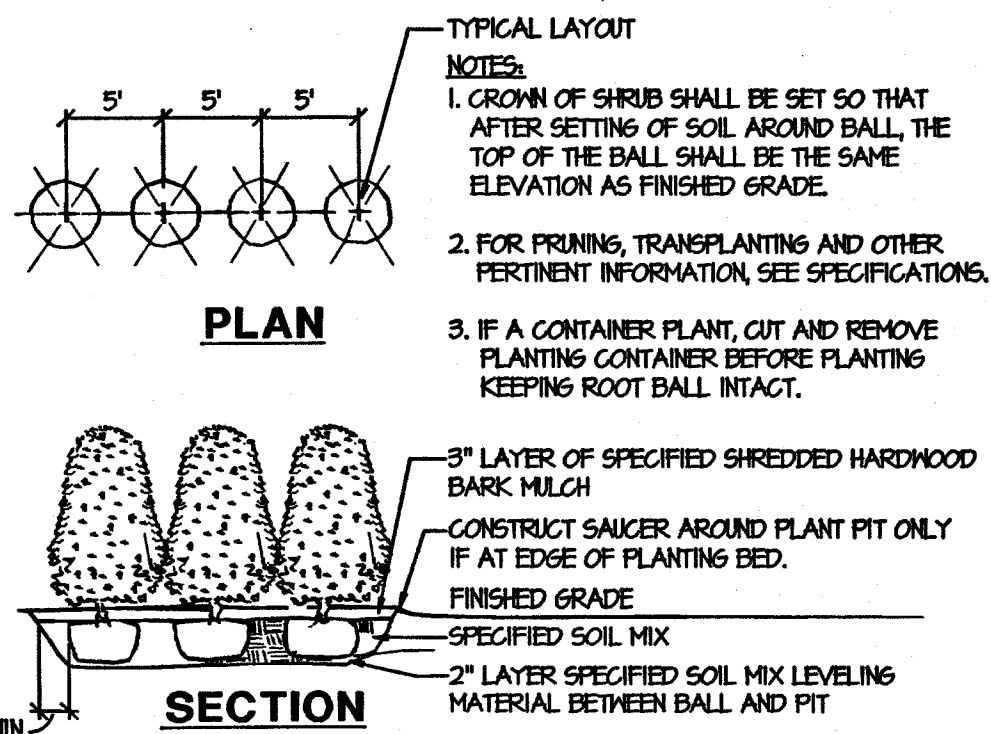
NEW 10' WIDE GATE

NEW 10' WIDE GRAVEL DRIVE

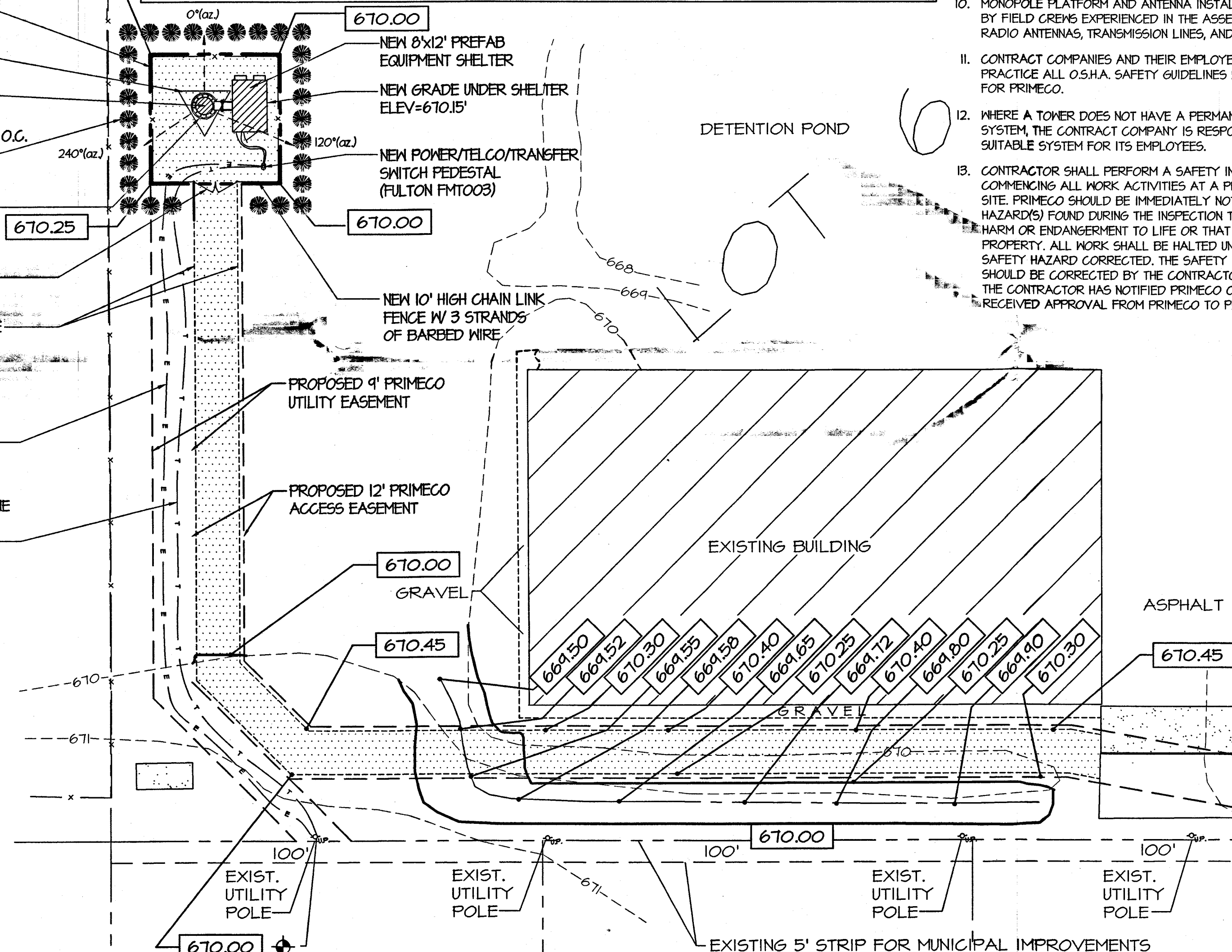
NEW 3-#3/0, 1-#6 GRD.
IN 2" P.V.C. CONDUIT FOR
ELECTRICAL SERVICE
(BY G.C.) TO NEW POWER
PEDESTAL

NEW 2" P.V.C. SCH 40
CONDUIT FOR NEW TELEPHONE
SERVICE TO NEW POWER
PEDESTAL

SETBACKS
FRONT: 25 FEET
SIDES: 10 FEET
BACK: 0 FEET



DETAIL - SHRUB PLANTING: EVERGREEN & DECIDUOUS



GENERAL NOTES

1. MONOPOLE, EQUIPMENT PLATFORM AND ANTENNAS ARE DESIGNED TO MEET BOCA NATIONAL BUILDING CODE/1993, LOCAL BUILDING CODES, AND ANSI/EIA/TIA-222-E STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES. THE DESIGN WIND SPEED IS 80 MPH PLUS 1/2" ICE.
2. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
3. EXISTING VEGETATION WILL BE REMOVED INSIDE LEASED AREA AND ACCESS DRIVE.
4. ALL STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATION (LATEST EDITION).
5. ALL CAST IN PLACE CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH ACI 318 AND ACI 301.
6. FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (HANDICAPPED ACCESS NOT REQUIRED).
7. FACILITY WILL NOT BE LIGHTED WITH THE EXCEPTION OF EMERGENCY CONDITIONS.
8. FACILITY HAS NO PLUMBING.
9. FACILITY WILL BE INDEPENDENTLY POWERED WITH SEPARATE METER.
10. MONOPOLE PLATFORM AND ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES, AND SUPPORT STRUCTURES.
11. CONTRACT COMPANIES AND THEIR EMPLOYEES SHALL OBSERVE AND PRACTICE ALL O.S.H.A. SAFETY GUIDELINES WHILE PERFORMING SERVICE FOR PRIMECO.
12. WHERE A TOWER DOES NOT HAVE A PERMANENT FALL PROTECTION SYSTEM, THE CONTRACT COMPANY IS RESPONSIBLE FOR PROVIDING A SUITABLE SYSTEM FOR ITS EMPLOYEES.
13. CONTRACTOR SHALL PERFORM A SAFETY INSPECTION PRIOR TO COMMENCING ALL WORK ACTIVITIES AT A PRIMECO LEASED OR OWNED SITE. PRIMECO SHOULD BE IMMEDIATELY NOTIFIED OF SAFETY HAZARD(S) FOUND DURING THE INSPECTION THAT COULD CAUSE BODILY HARM OR ENDANGERMENT TO LIFE OR THAT COULD CAUSE DAMAGE TO PROPERTY. ALL WORK SHALL BE HALTED UNTIL SUCH TIME THE REPORTED SAFETY HAZARD CORRECTED. THE SAFETY HAZARD, IF POSSIBLE, SHOULD BE CORRECTED BY THE CONTRACTOR WHILE ON SITE, AFTER THE CONTRACTOR HAS NOTIFIED PRIMECO OF THE HAZARD AND HAS RECEIVED APPROVAL FROM PRIMECO TO PERFORM THE CORRECTION.



APPROVALS

PRIMECO _____

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

BSIE _____

FIXNET _____

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CGB 3617-2
DECATUR
N.E.

2205 BRUSH COLLAGE RD.
DECATUR, ILLINOIS

SHEET TITLE

SITE PLAN

SHEET NUMBER

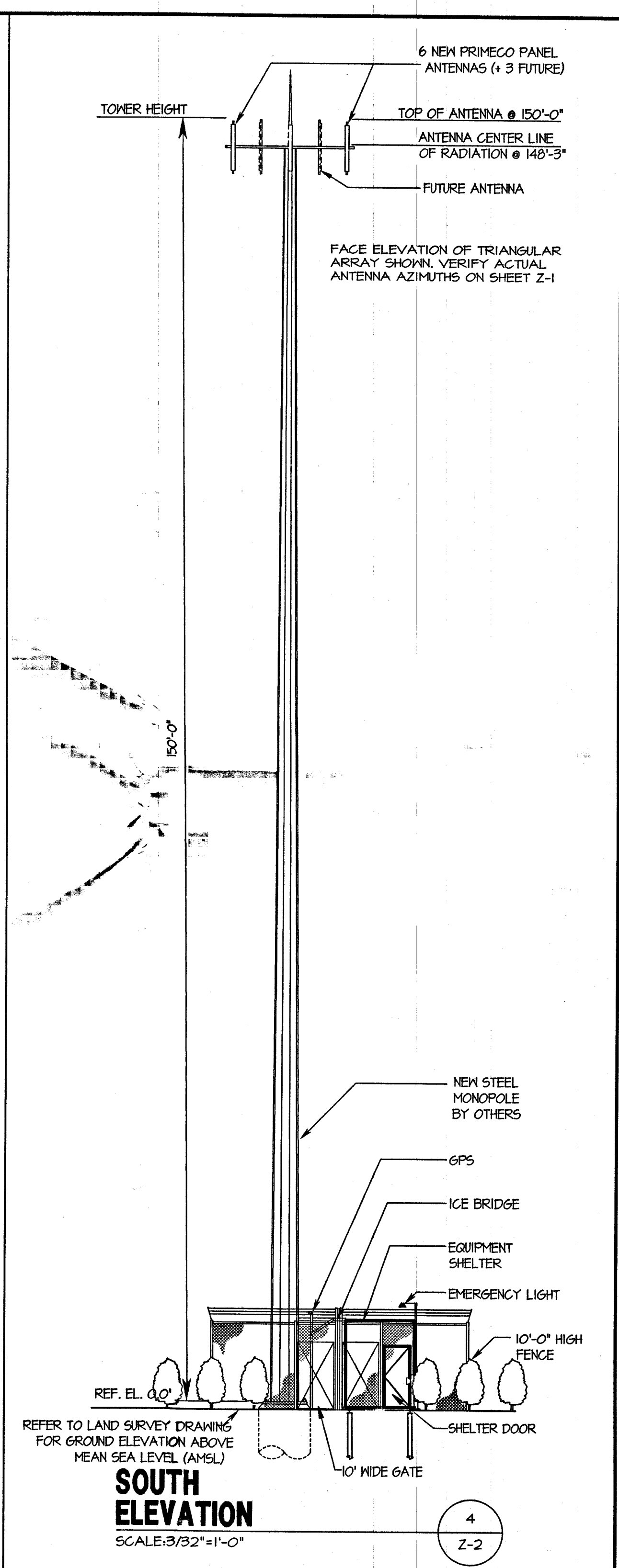
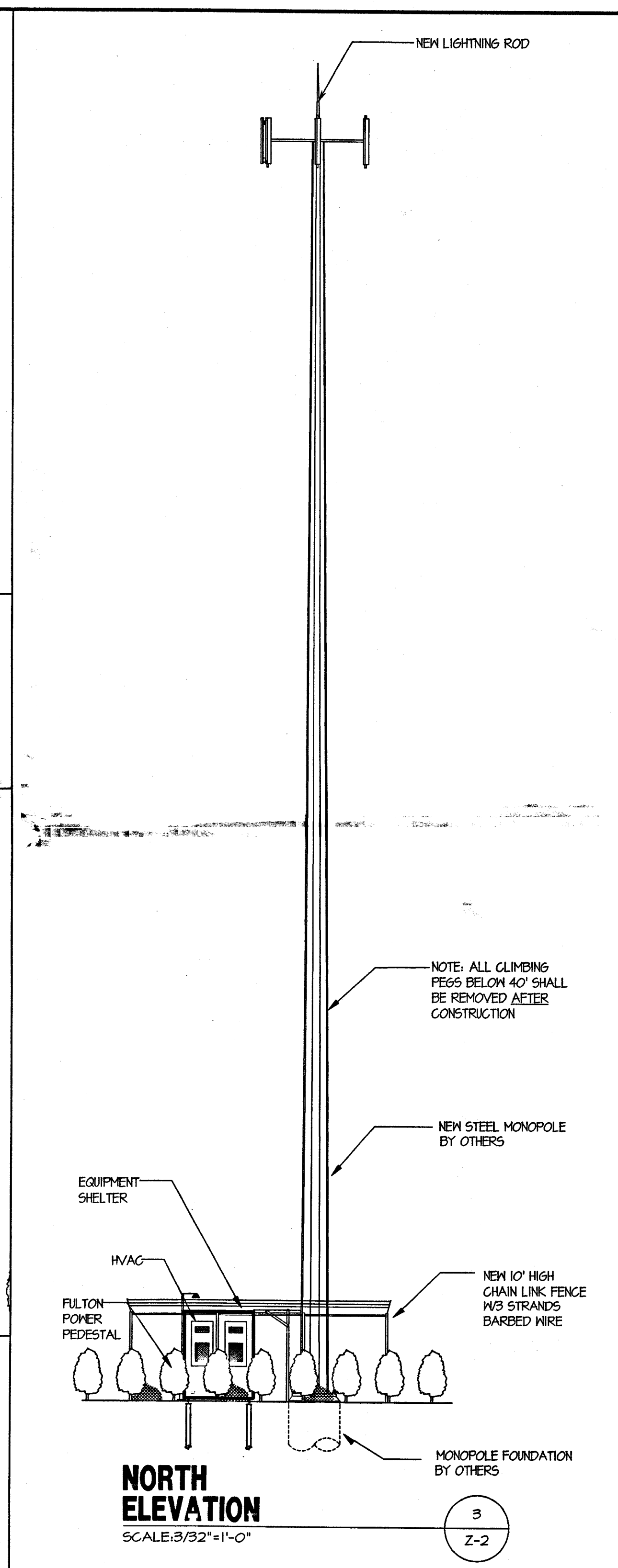
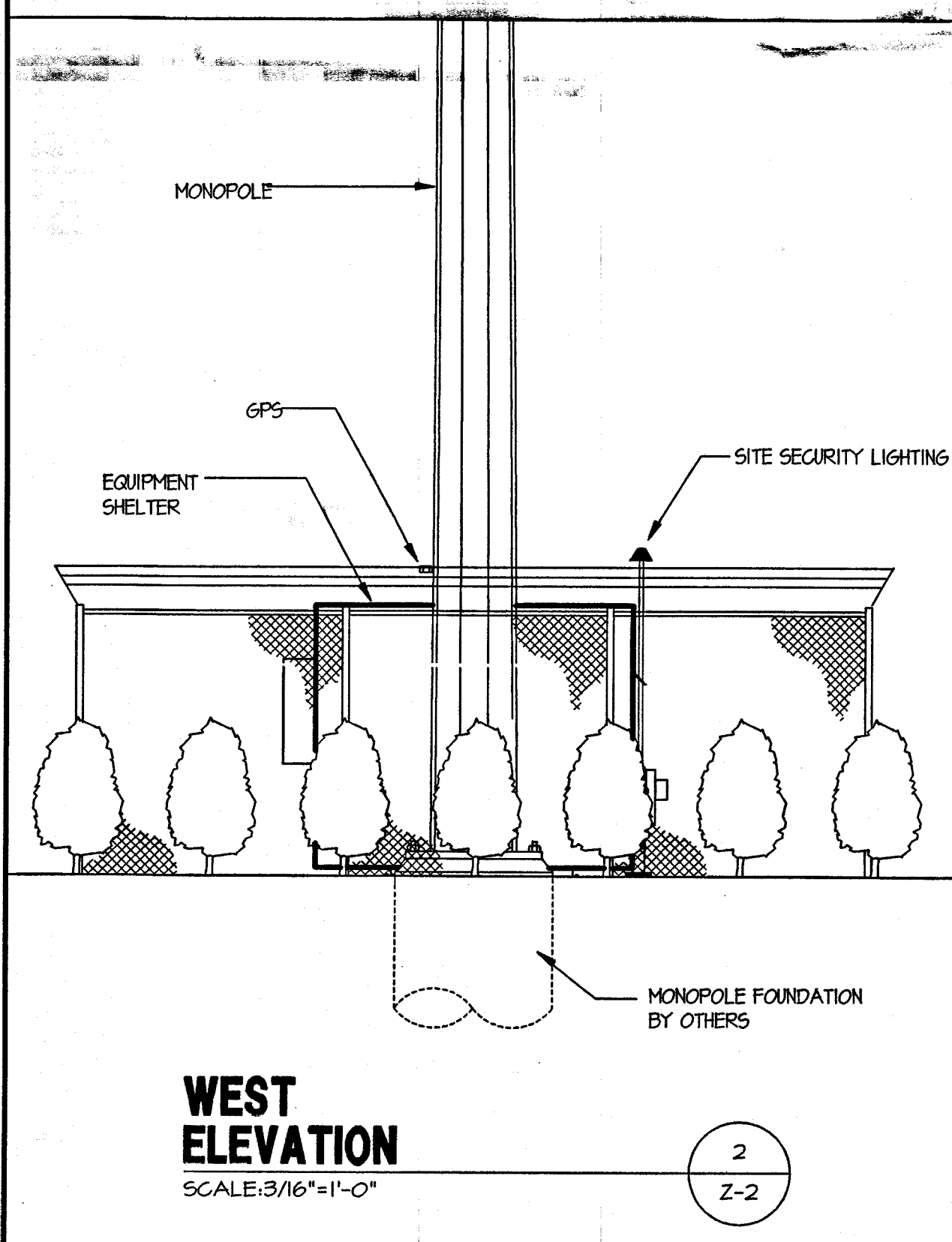
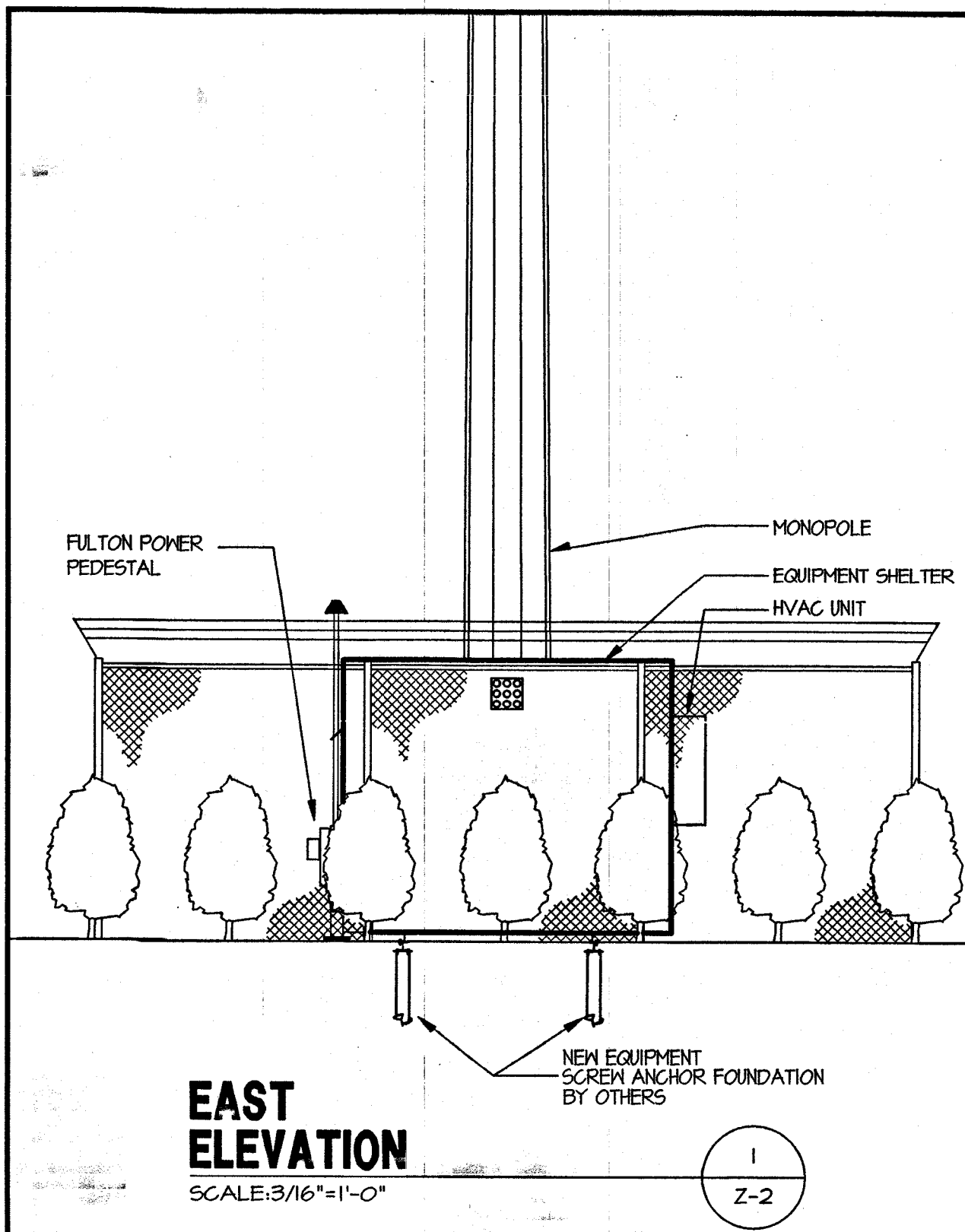
Z-1

BENCHMARK=NAIL UTILITY POLE LOCATED 150 FEET SOUTH OF
PRIMECO LEASE AREA. ELEV=672.12' (USGS)

ENLARGED
SITE PLAN

SCALE: 1" = 20'-0"

2
Z-1



PRIMECO
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FAX: (630) 285-1580

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 LANDLORD _____
 LEASING _____
 R.F. _____
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 CONSTRUCTION _____
 BSIE _____
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 DECATUR, ILLINOIS

SHEET TITLE
ELEVATIONS

SHEET NUMBER
Z-2

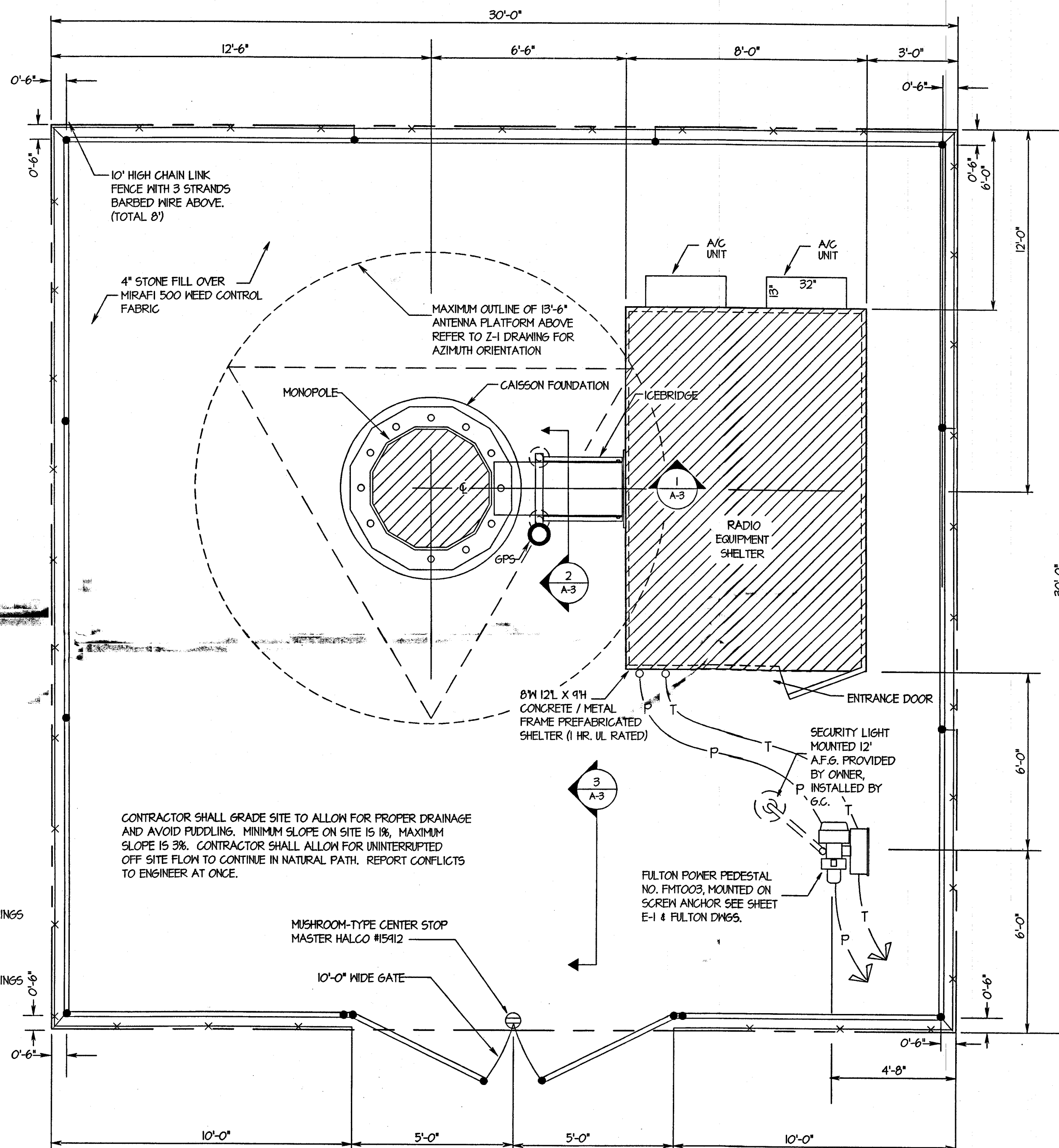
1. THE GENERAL CONTRACTOR AND OR HIS SUBCONSULTANT SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.

2. REFER TO THE SITE PLAN PREPARED BY OTHERS FOR BOUNDARY SURVEY AND SITE TOPOGRAPHY.
3. DESIGN REQUIREMENTS FOR THE ANTENNA SUPPORTING STRUCTURE ARE PER BOCA NATIONAL BUILDING CODE/1993, LOCAL BUILDING CODES, AND THE EIA/ TIA-222-E STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES. THE BASIC WIND SPEED UTILIZED FOR DESIGN IS 80 MPH PLUS 1/2" ICE.
4. CONCRETE FOR FENCE POST AND ICEBRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (4%-6%) NORMAL WEIGHT CONCRETE.
5. FENCED SITE AREA SHALL BE CLEARED AND GRUBBED. REMOVE UNSUITABLE SOFT OR LOOSE SOILS, ORGANIC MATERIAL AND OR RUBBLE TO FIRM SUBGRADE AS APPROVED BY GEOTECHNICAL REPORT. PLACE A MIRAFI 500X SHEET ON SUBGRADE AND FILL WITH 4 INCHES OF AASHTO 51 STONE TO FINISH GRADE.
6. STRUCTURAL STEEL SHALL CONFORM TO LATEST EDITION OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS- ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN INCLUDING THE COMMENTARY AND THE CODE OF STANDARD PRACTICE.
7. STRUCTURAL STEEL PLATES AND SHAPES SHALL CONFORM TO ASTM A36. ALL STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53 GRADE B. ALL STRUCTURAL STEEL COMPONENTS AND FABRICATED ASSEMBLIES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
8. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D.11-42 STRUCTURAL WELDING CODE- STEEL WELD ELECTRONICS SHALL BE E70XX.
9. ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLIES SHALL CONFORM TO ASTM A325. FASTENERS SHALL BE 5/8" MINIMUM DIAMETER BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN THE SHEAR PLANE. ALL EXPOSED FASTENERS, NUTS AND WASHERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. CONCRETE EXPANSION ANCHORS SHALL BE HILTI KWIK BOLTS UNLESS OTHERWISE NOTED.
10. ALL COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE AS SPECIFIED BY THE OWNER. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES.
11. STEEL FENCE SYSTEM SHALL INCLUDE THE FENCE POSTS, FABRIC, GATE SYSTEM AND ALL NECESSARY ERECTION ACCESSORIES, FITTINGS, AND FASTENINGS. ALL FENCE SYSTEM COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. GATES SHALL BE SWING GATES WITH 4'-0" LEAFS. REFER TO TYPICAL FENCE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. INSTALL FENCE AFTER CONCRETE HAS ATTAINED 75% OF 28 DAY DESIGN STRENGTH.
12. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY TRUE NORTH AND INFORM CONSTRUCTION MANAGER OF ANY DISCREPANCIES BEFORE STARTING CONSTRUCTION.

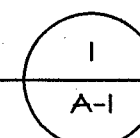
REFER TO E-1 SHEET FOR SITE ELECTRICAL DIAGRAM, DETAILS AND LAYOUT

BUILDING / SHELTER FOUNDATION DESIGN IS UNDER SEPERATE CONTRACT BY OTHERS
AND IS EXCLUDED FROM THESE DESIGN DRAWINGS, REFER TO OWNER PROVIDED DRAWINGS
FOR SPECIFIC DETAILS REGARDING FOUNDATION SYSTEM.

MONOPOLE / TOWER FOUNDATION DESIGN IS UNDER SEPERATE CONTRACT BY OTHERS
AND IS EXCLUDED FROM THESE DESIGN DRAWINGS, REFER TO OWNER PROVIDED DRAWINGS
FOR SPECIFIC DETAILS REGARDING FOUNDATION SYSTEM.



SCALE: $3/8" = 1' - 0"$



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OFFICE: (630) 773-1600
FAX: (630) 285-1580**

APPROVALS

PRIMECO**LANDLORD**

LEASING

R.F.

ZONING

CONSTRUCTION

BSIE

FIXNET

PROJECT NO:

T97176

DRAWN BY

CDG

CHECKED BY:

KMM

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CGB 3617-2
DECATUR
N.E.

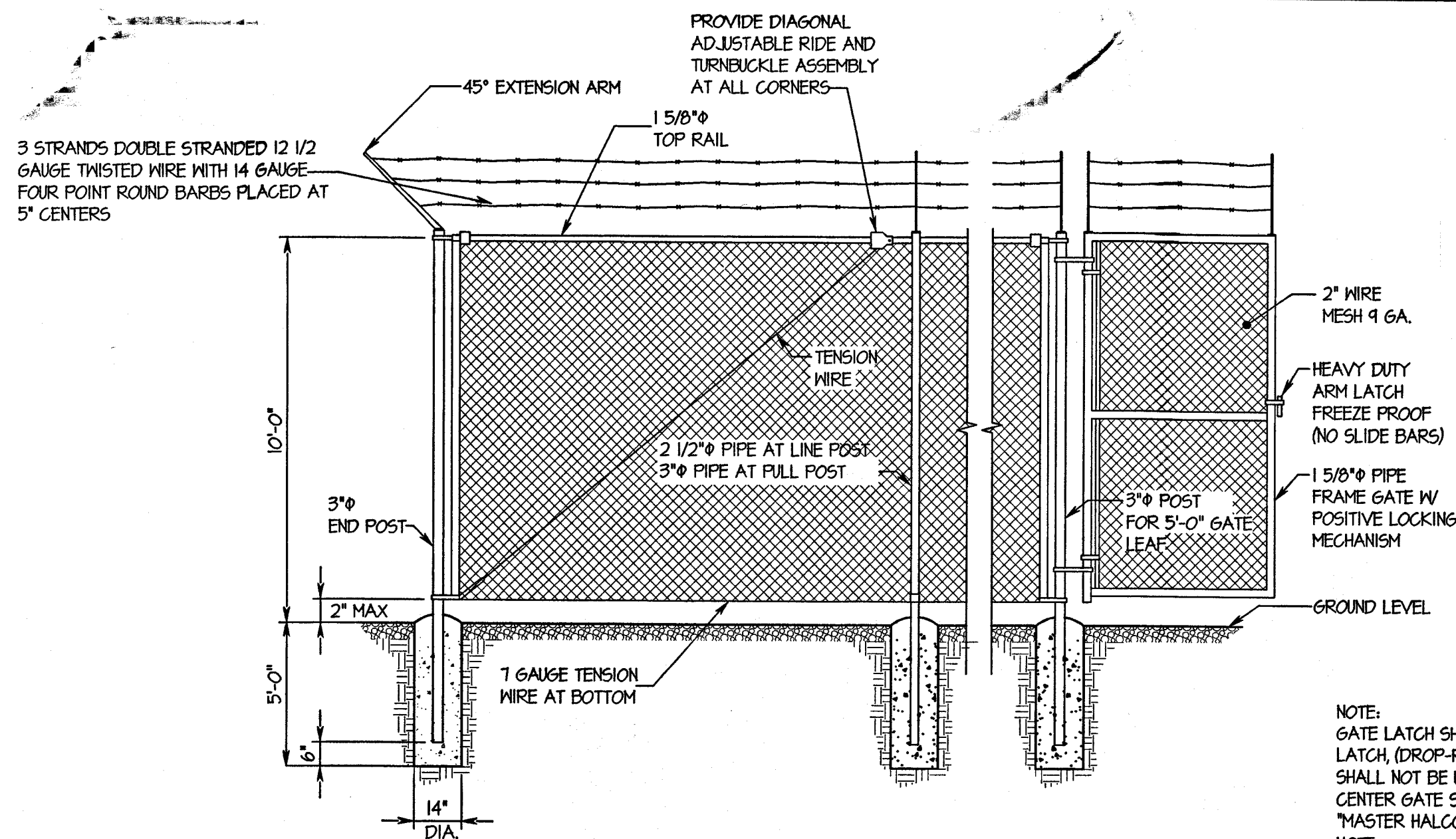
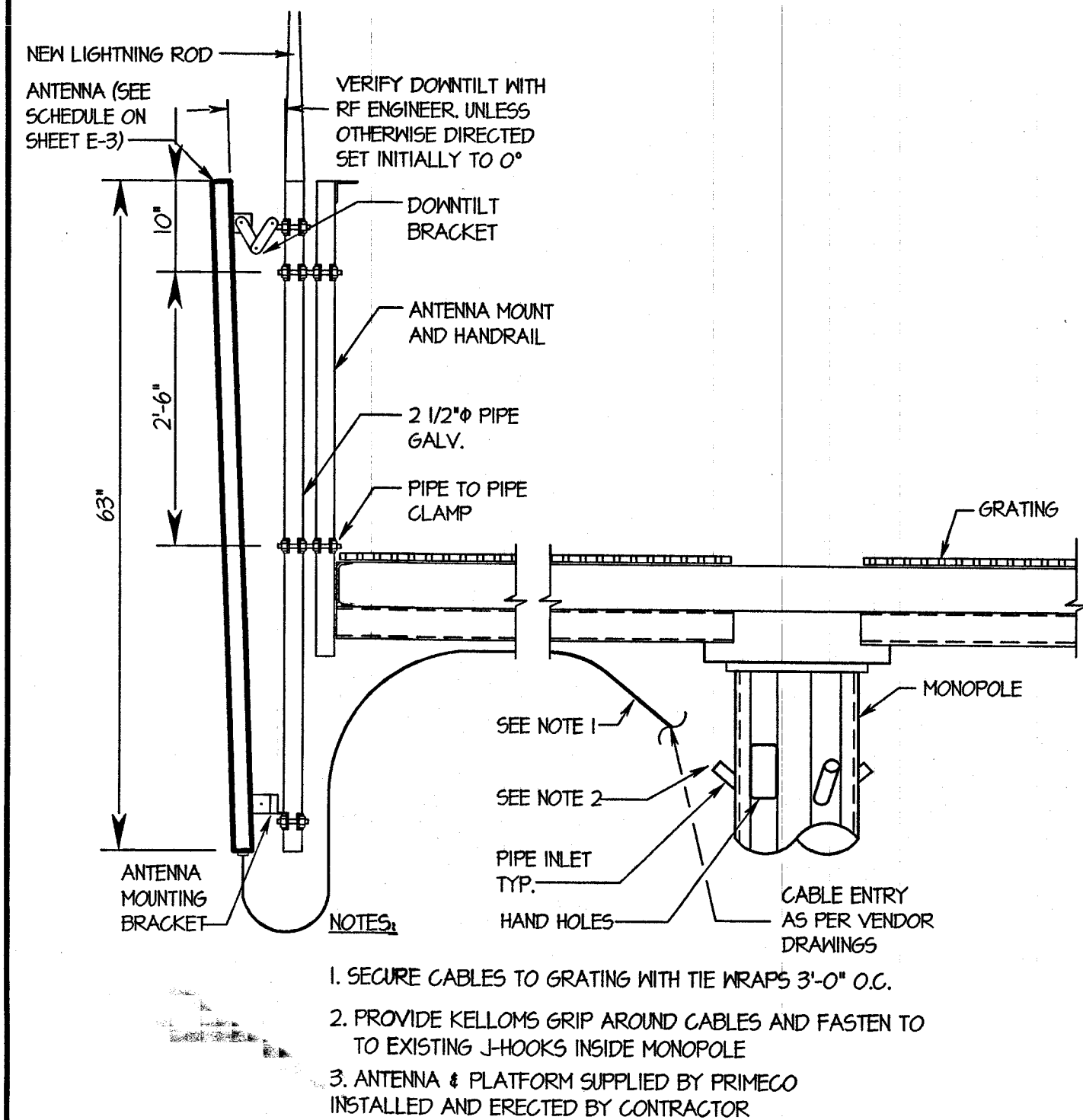
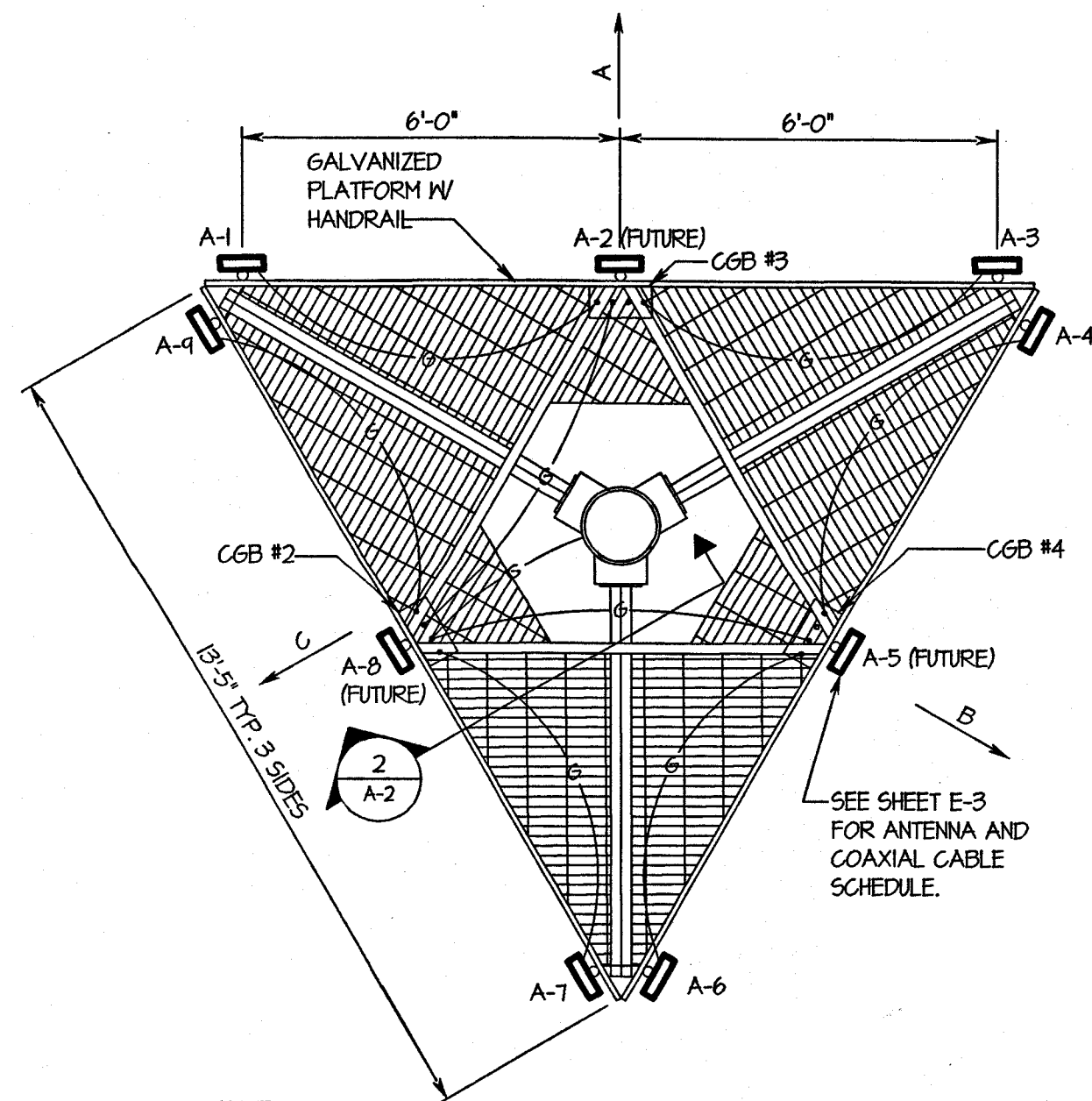
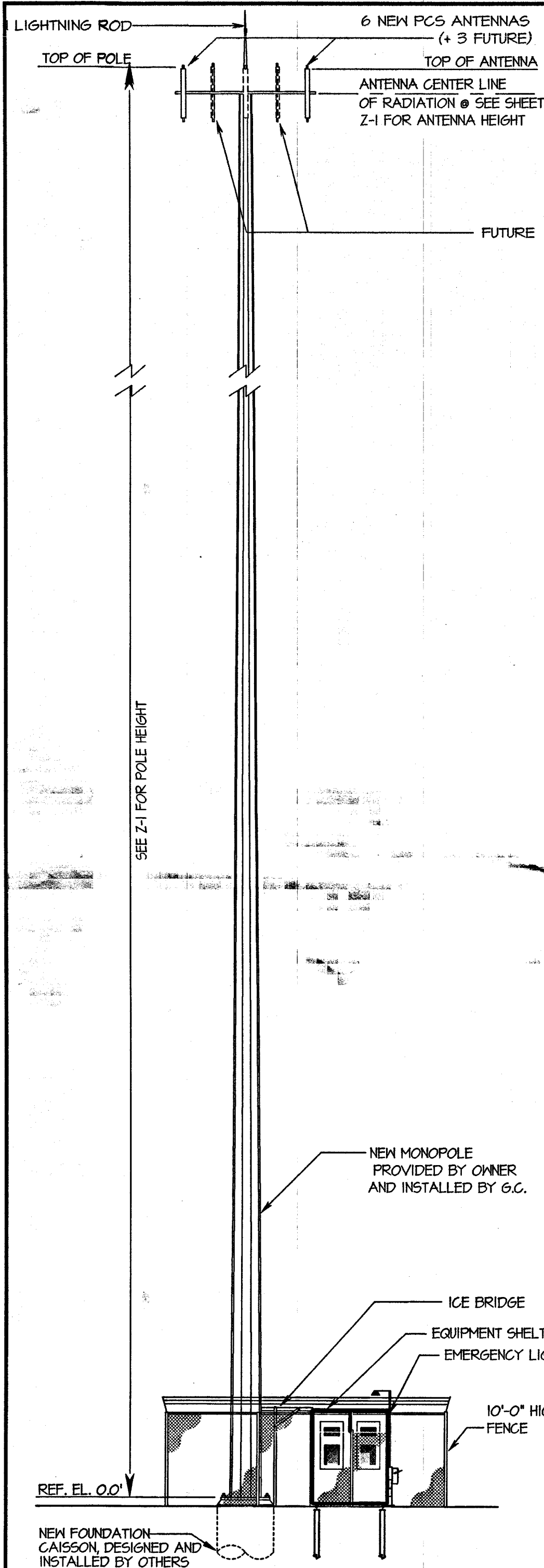
**2205 BRUSH COLLAGE RD.
DECATUR, ILLINOIS**

SHEET TITLE

SITE PLAN & PROJECT NOTES

SHEET NUMBER

A-1



NOTE:
GATE LATCH SHALL BE FROST FREE, DOUBLE LATCH, (DROP-ROD STYLE LATCH INTO PIPE SHALL NOT BE USED DUE TO FREEZING) CENTER GATE STOP SHALL BE MUSHROOM-TYPE "MASTER HALCO #15412"

NOTE:
ALL FENCING & RELATED ASSEMBLIES SHALL BE HOT-DIP GALVANIZED CONFORMING TO "INDUSTRIAL STEEL SPECIFICATIONS FOR FENCE-POSTS, GATES AND ACCESSORIES" PUBLISHED BY THE CHAIN LINK FENCE MANUFACTURERS' ASSOCIATION.

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APPROVALS

PRIMECO _____

LANDLORD _____

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PROJECT NO. T97178

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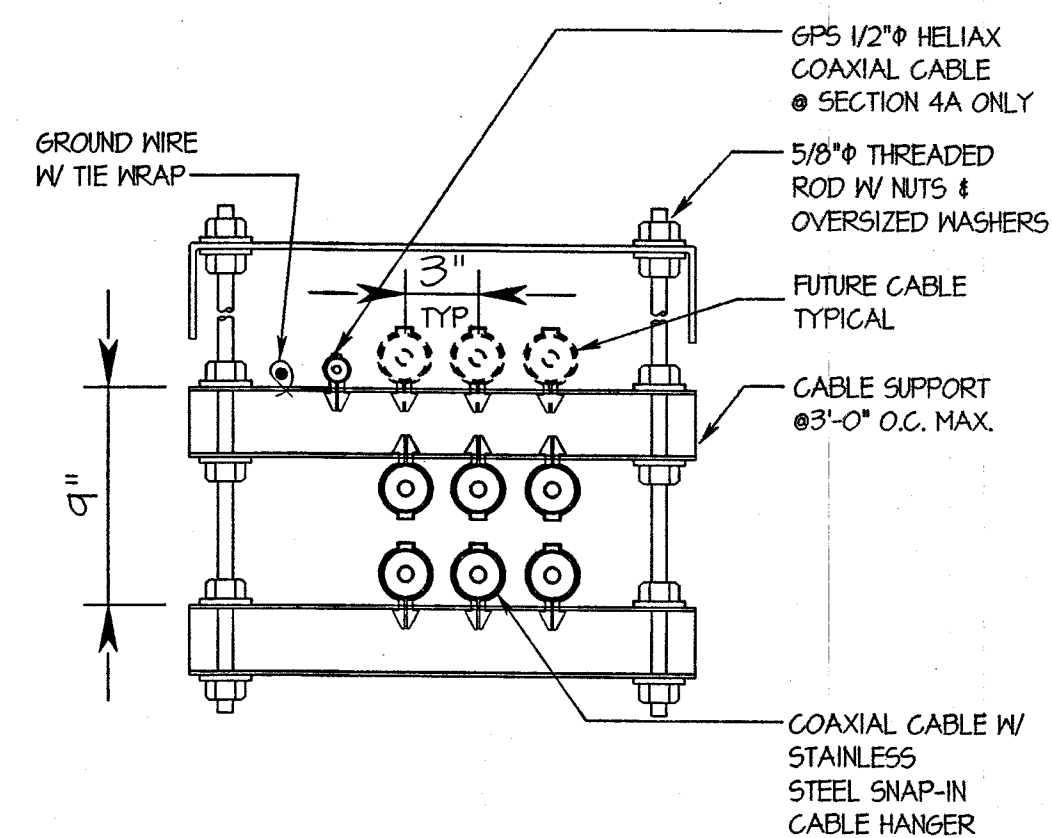
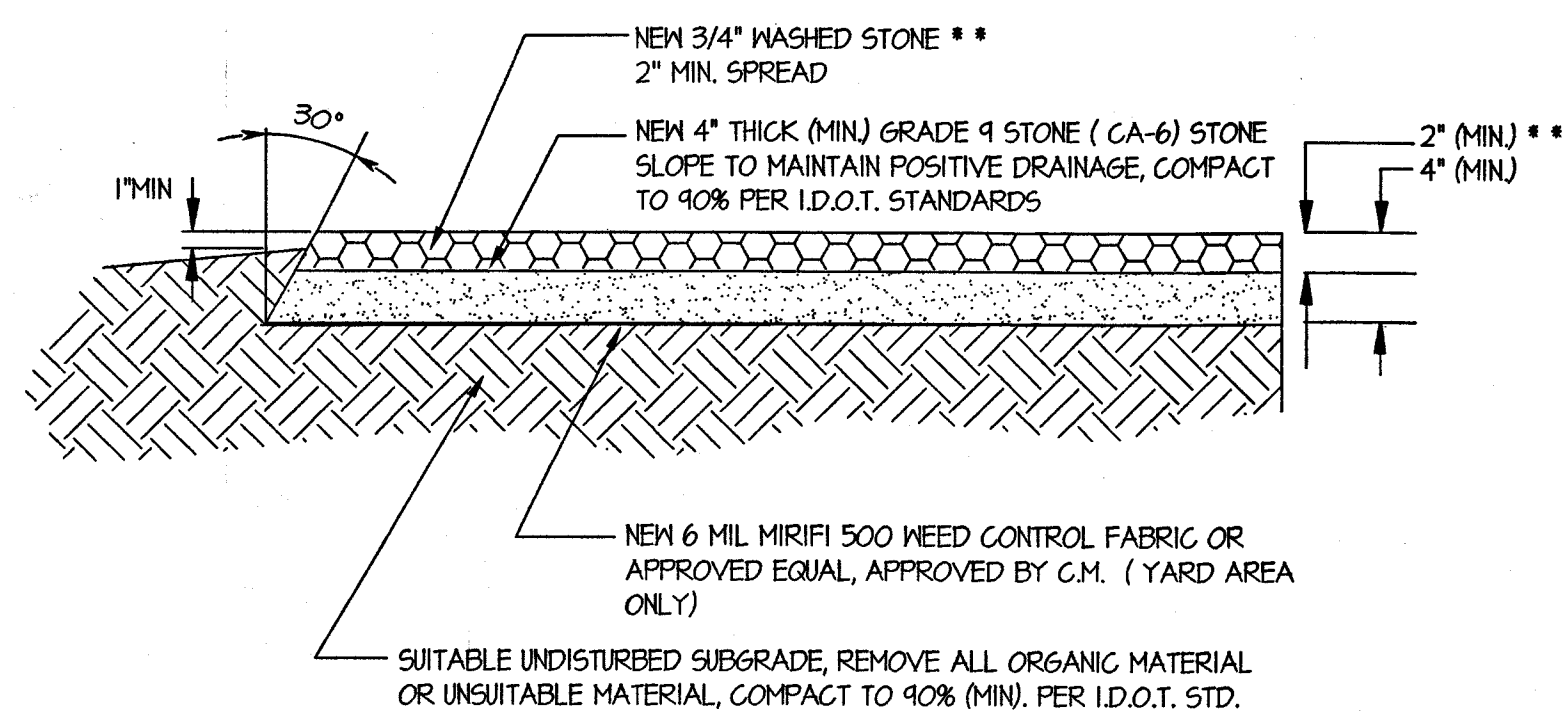
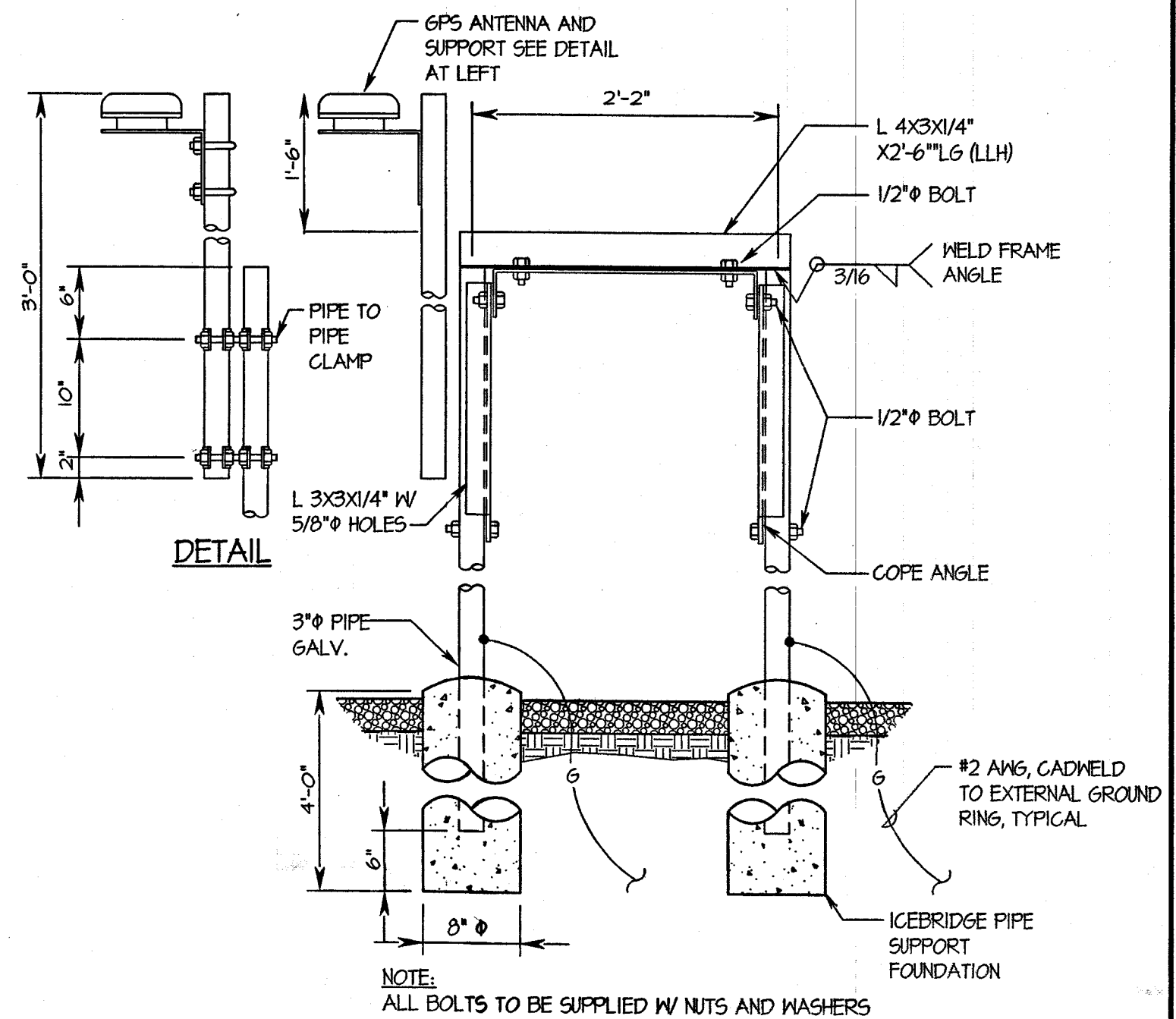
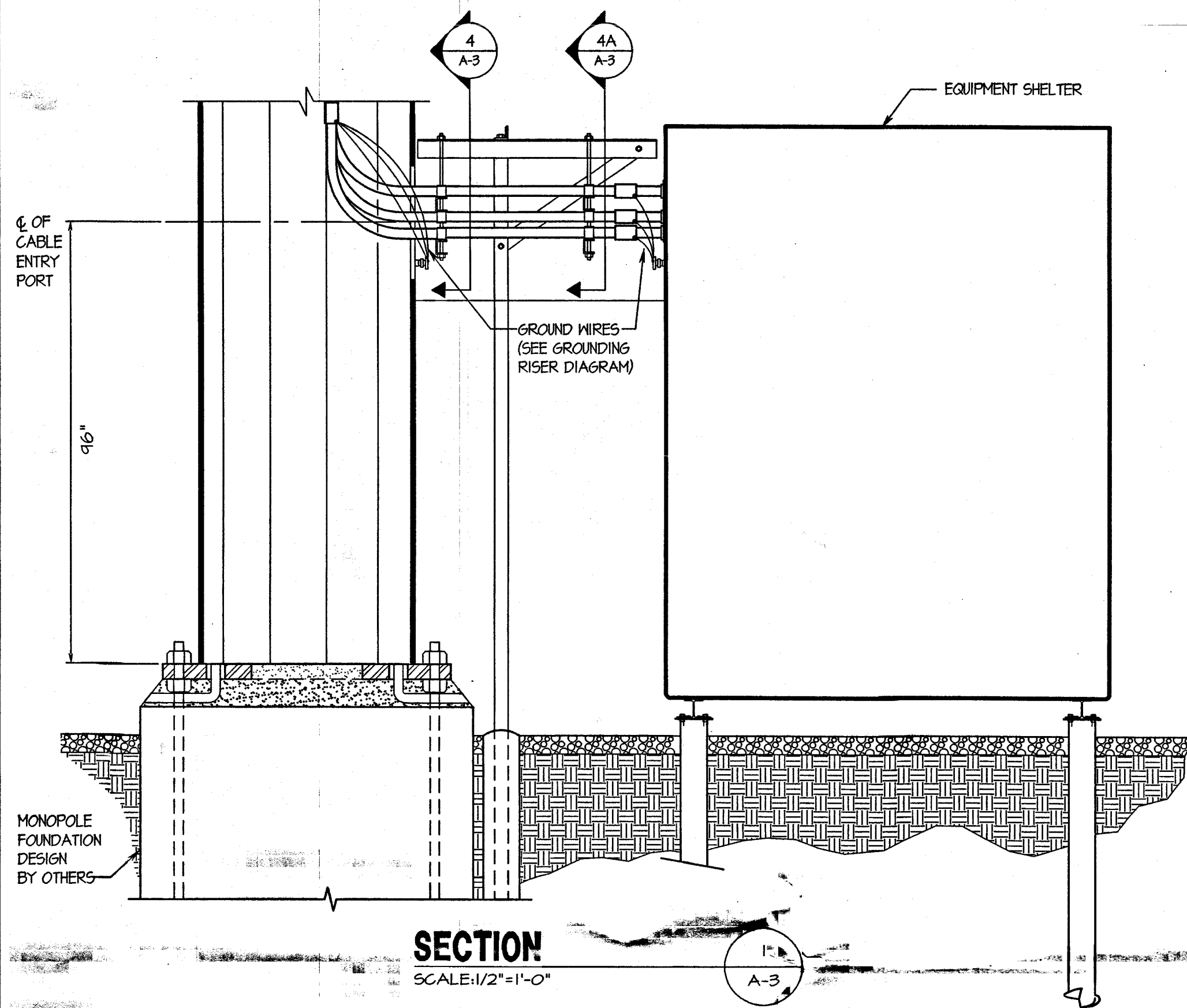
2205 BRUSH COLLAGE RD.
DECATUR, ILLINOIS

SHEET TITLE

**ANTENNA LOCATION PLAN,
SECTIONS, AND ELEVATIONS**

SHEET NUMBER

A-2



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W-T

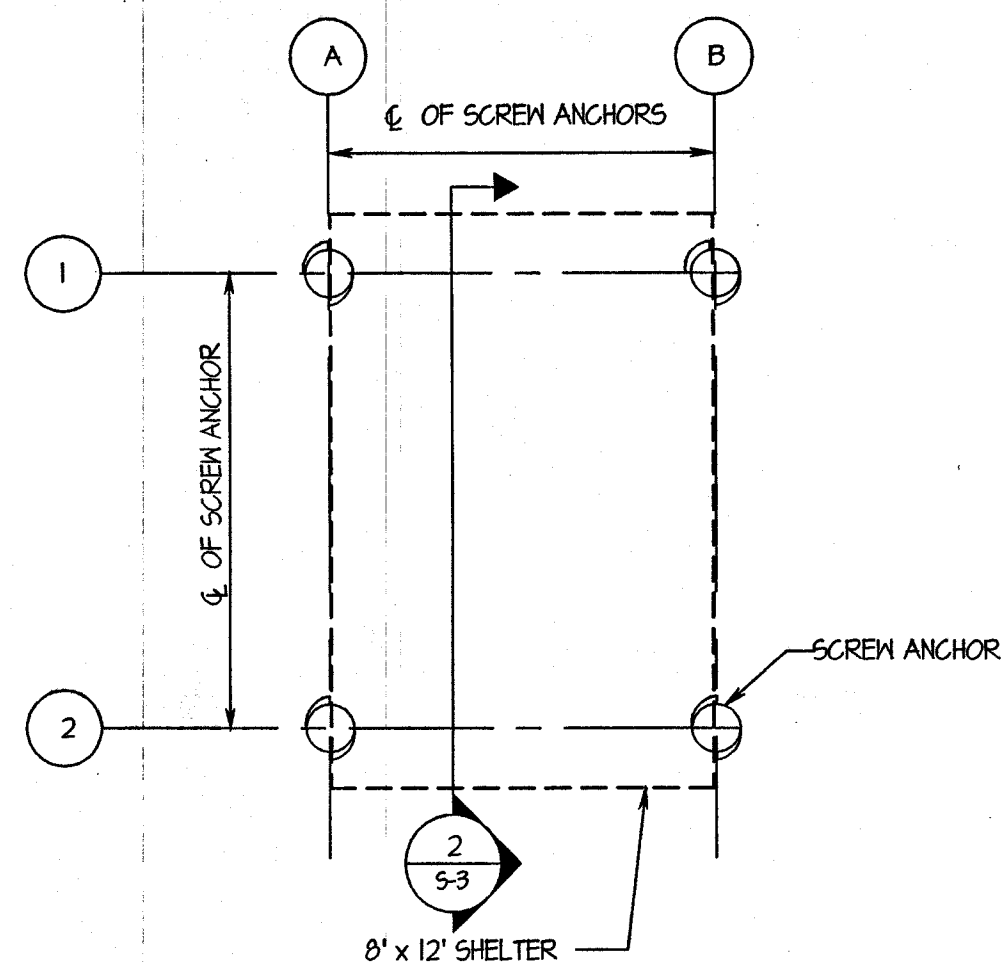
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SHEET TITLE
SECTIONS

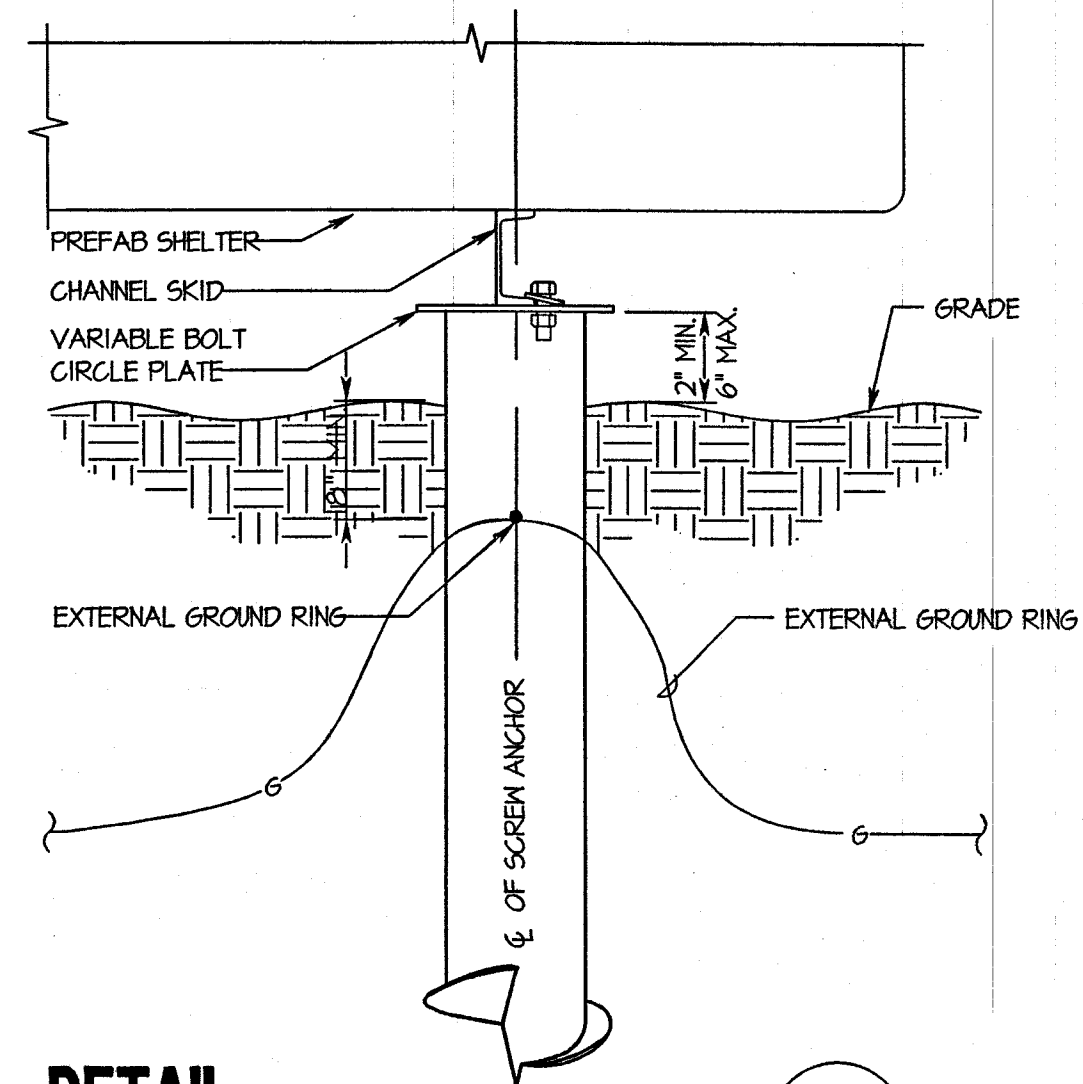
SHEET NUMBER
A-3



8' x 12' SHELTER SCREW ANCHOR LOCATION PLAN

SCALE: 1/4" = 1'-0"

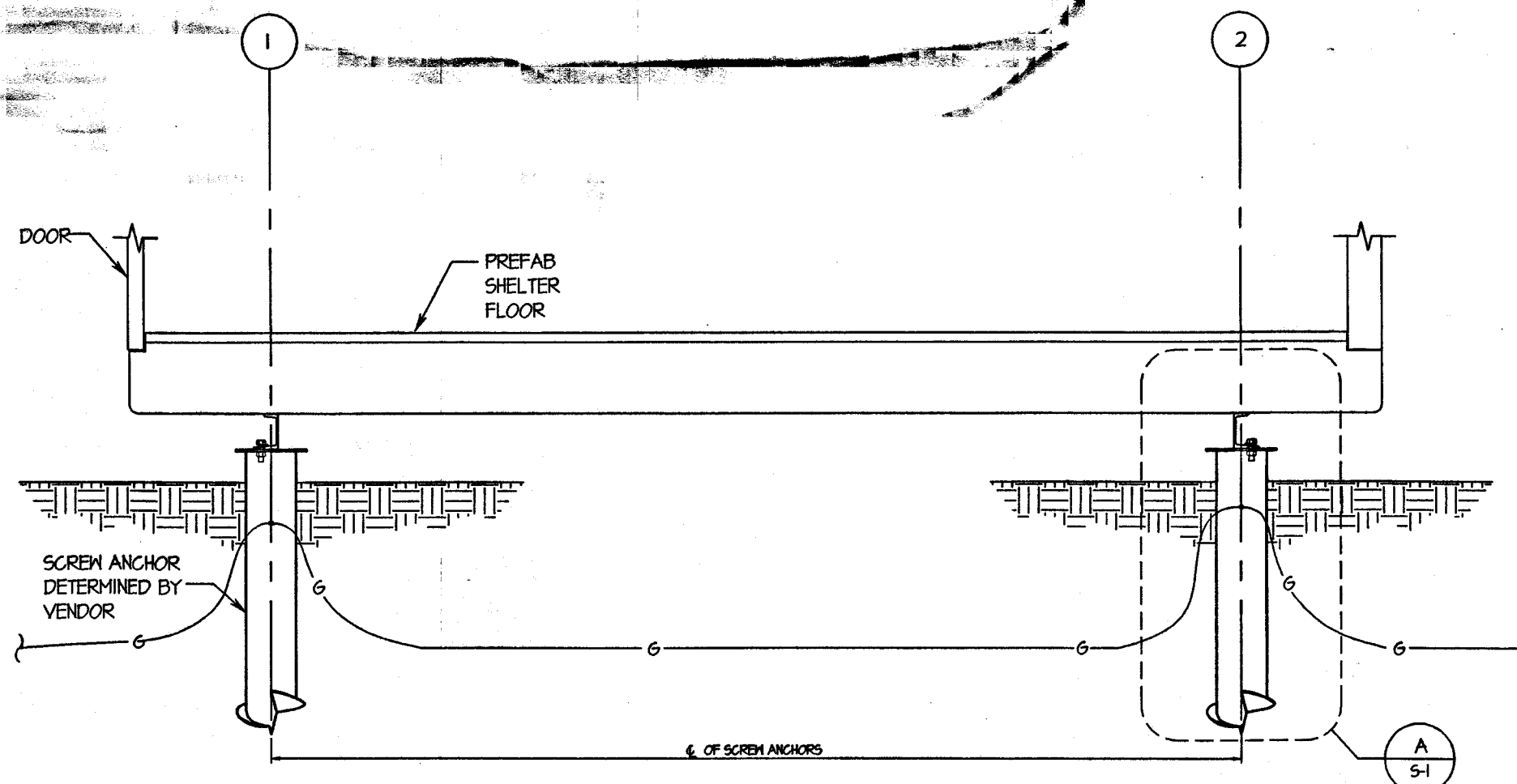
1
S-1



DETAIL

SCALE: 1/2" = 1'-0"

A
S-1



SECTION

SCALE: 3/4" = 1'-0"

2
S-1

GENERAL NOTES

1. FOUNDATION SHOWN IS FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWING PROVIDED UNDER SEPARATE COVER BY OTHERS.
2. EXACT FOUNDATION SPECIFICATION AND ANCHOR BOLT LAYOUT SHALL BE COORDINATED WITH SHELTER MANUFACTURER.



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DECATUR, ILLINOIS

SHEET TITLE

SECTIONS AND DETAILS
FOR 8'X12' SCREW ANCHOR
FOUNDATION

SHEET NUMBER

S-1

APPROVALS

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**CGB 3617-2
DECATUR
N.E.**

**2205 BRUSH COLLAGE RD.
DECATUR, ILLINOIS**

SHEET TITLE

**ELECTRICAL PLAN,
RISER, NOTES
AND DETAILS**

SHEET NUMBER

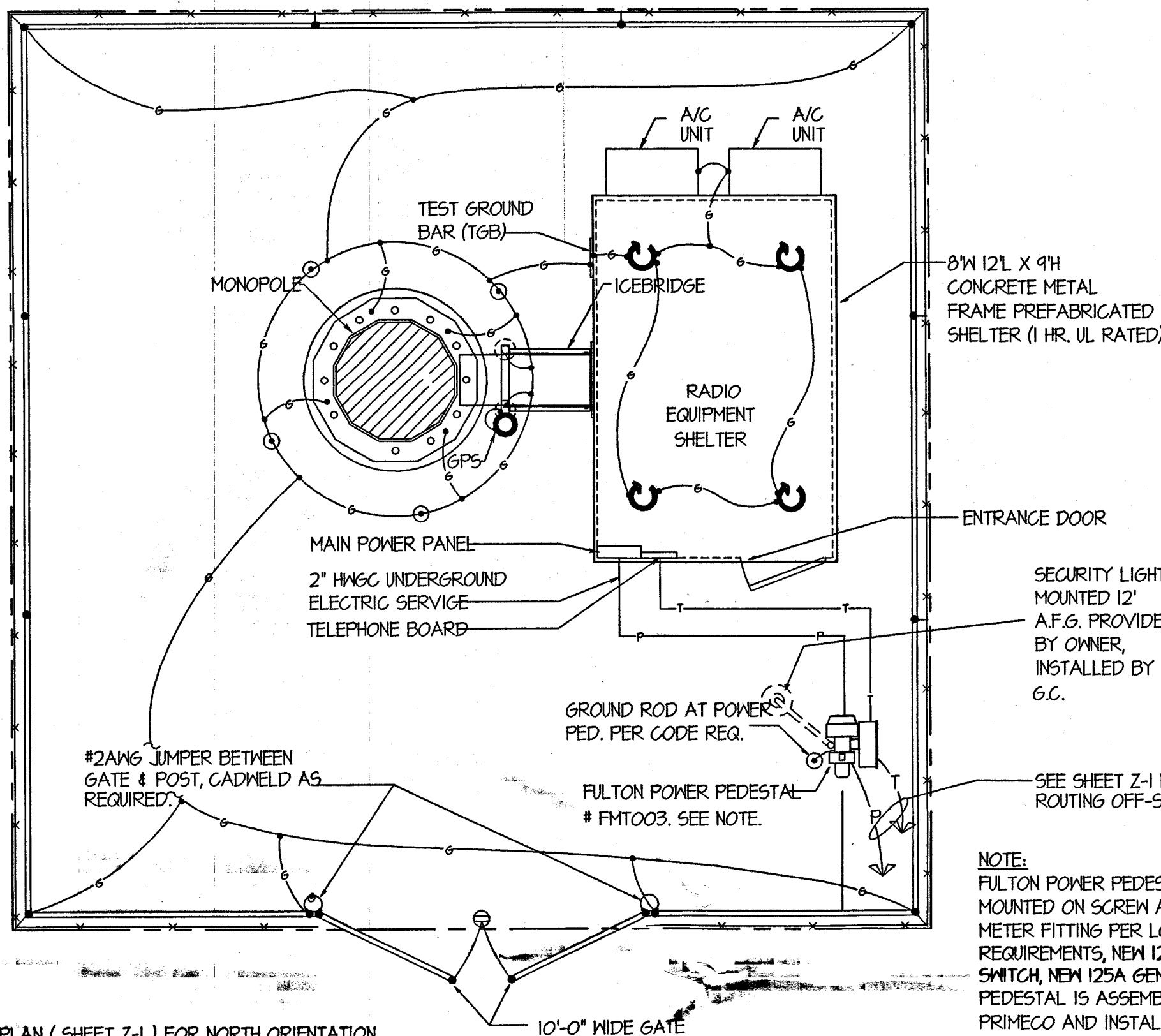
E-1

LEGEND

	SAFETY DISCONNECT SWITCH, SIZED AS NOTED	A	AMPERE
	PANELBOARD	V	VOLT
	KILOWATT HOUR METER	W	WIRE
	TRANSFORMER	C	CONDUIT
	CIRCUIT BREAKER	G	GROUND
	LIGHTING FIXTURE, SIZE AS NOTED	P	POLE
	COPPER GROUND BAR, SIZED AS NOTED	SPGB	SURGE PROTECTOR GROUND BAR (1/4"x2"x24")
	EXOTHERMIC WELD CONNECTION	CGB	COLLECTOR GROUND BAR (1/4"x4"x12")
	COMPRESSION FITTING GROUND CONNECTION	EGB	EXTERNAL GROUND BAR (1/4"x8"x24")
	COAXIAL CABLE GROUND CONNECTION	MGB	MASTER GROUND BAR (1/4"x8"x24")
	GROUND TEST PIT	IGR	INTERNAL GROUND RING ("HALO" GROUND)
	GROUND ROD	EGR	EXTERNAL GROUND RING
	POWER WIRING, SIZED AS NOTED	ACU	AIR CONDITIONER UNIT
	TELCO WIRING, SIZED AS NOTED		
	GROUND WIRING, SIZED AS NOTED		FULTON SCREW ANCHOR

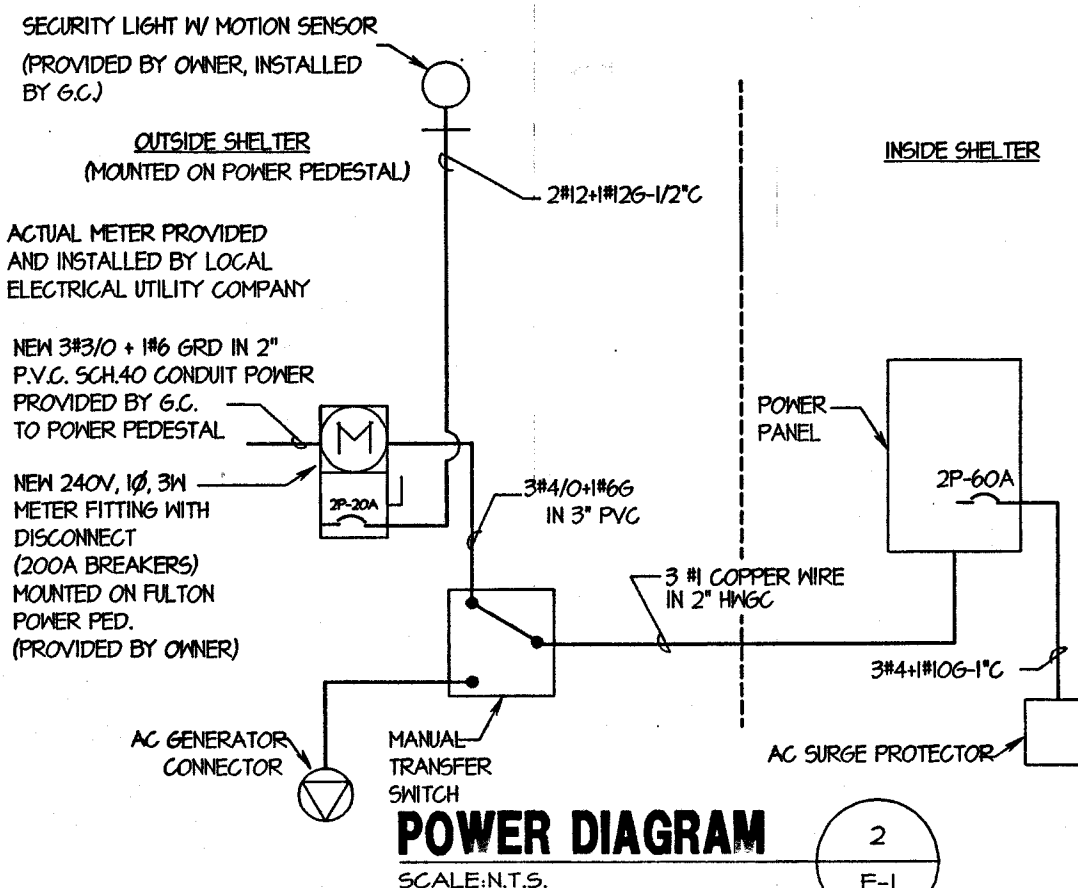
ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (EDITION ACCEPTED BY LOCAL JURISDICTION) AND APPLICABLE LOCAL CODES.
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED.
- WIRES AND CABLES FOR POWER AND LIGHTING SHALL BE COPPER WITH TYPE XHHW, THHN, OR THHN INSULATION. SOLID CONDUCTORS FOR #10 AWG AND SMALLER, STRANDED FOR LARGER THAN #10 AWG. MINIMUM SIZE #12 AWG.
- WIRES AND CABLES FOR POWER AND LIGHTING SHALL BE INSTALLED IN GALVANIZED RIGID STEEL CONDUIT OR FLEXIBLE LIQUIDTIGHT CONDUIT AS INDICATED ON DRAWING.
- CONTRACTOR TO OBTAIN ALL PERMITS, PAY PERMIT FEES, AND BE RESPONSIBLE FOR SCHEDULING INSPECTIONS.
- CONTRACTOR TO OBTAIN LOCAL POWER AND TELEPHONE COMPANY APPROVAL AND COORDINATE WITH UTILITY COMPANIES SERVICE ENTRANCE REQUIREMENTS.
- PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND ALL ITEMS INCIDENTAL TO COMPLETING AND PRESENTING THIS PROJECT AS FULLY OPERATIONAL.
- GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELD") TO ANTENNA MASTS, FENCE POSTS, MONOPOLE, AND THE GROUND RODS. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH ANDREWS COAX CABLE GROUNDING KITS
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE, ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.
- CONTRACTOR TO PROVIDE GROUND RODS AND GROUND RING AS SHOWN ON ELECTRICAL SITE PLAN AND GROUNDING RISER DIAGRAM. CONTRACTOR SHALL TEST AND VERIFY THAT THE IMPEDANCE DOES NOT EXCEED 5 OHMS TO GROUND BY MEANS OF A BIDDLE-MEGGER TESTER. GROUNDING AND OTHER OPERATIONAL TESTING SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE.
- CONTRACTOR TO PROVIDE 2" SCHEDULE 40 PVC UNDERGROUND CONDUIT WITH PULL WIRE BETWEEN TELEPHONE COMPANY DEMARCATION POINT AND TELCO LINE BOX ON POWER PEDESTAL. CONTRACTOR SHALL PROVIDE 2" HNGC FROM POWER PEDESTAL TO SHELTER WITH PENETRATION FITTING.
- CONTRACTOR TO PROVIDE 2" SCHEDULE 40 PVC UNDERGROUND CONDUIT WITH PULL WIRE BETWEEN ELECTRICAL UTILITY COMPANY DEMARCATION POINT AND KWH METER BASE ON POWER PEDESTAL. CONTRACTOR SHALL PROVIDE 2" HNGC FROM POWER PEDESTAL TO SHELTER WITH PENETRATION FITTING.
- NOTIFY JLLI.E. (1-800-842-0123) PRIOR TO ANY EXCAVATION.
- CONTRACTOR TO PROVIDE GROUND INSPECTION WELL. REFER TO APPROPRIATE DETAIL ON DRAWING E-3.
- GROUNDING CONDUCTORS SHALL BE COPPER ONLY. ABOVE GROUND EITHER SOLID OR STRANDED CONDUCTORS ARE PERMITTED. IGR AND ALL EXTERNAL CONDUCTORS (WITH THE EXCEPTION FOR GROUND WIRE BETWEEN THE TOP AND THE BOTTOM OF THE ANTENNA TOWER) MUST BE BARE. EQUIPMENT GROUND LEADS IN CABLE TRAYS MUST BE GREEN INSULATED. BELOW GROUND BARE SOLID TINNED WIRE SHALL BE USED. ALL WIRES MUST BE #2 AWG MIN. WITH THE EXCEPTION OF GROUND WIRES FOR MISCELLANEOUS METALLIC OBJECTS IN THE EQUIPMENT SHELTER, WHERE #6 AWG WIRES CAN BE USED.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS UNIFORMLY SPACED AROUND CELL SITE. THE GROUND RODS SHALL BE 5/8"x8'-0" COPPER CLAD STEEL. THE RODS SHALL BE INTERCONNECTED WITH #2 AWG BARE SOLID TINNED COPPER GROUND WIRE BURIED 30" BELOW THE SURFACE OF THE SOIL. MINIMUM DISTANCE BETWEEN GROUND RODS - 8'; MAXIMUM - 16'

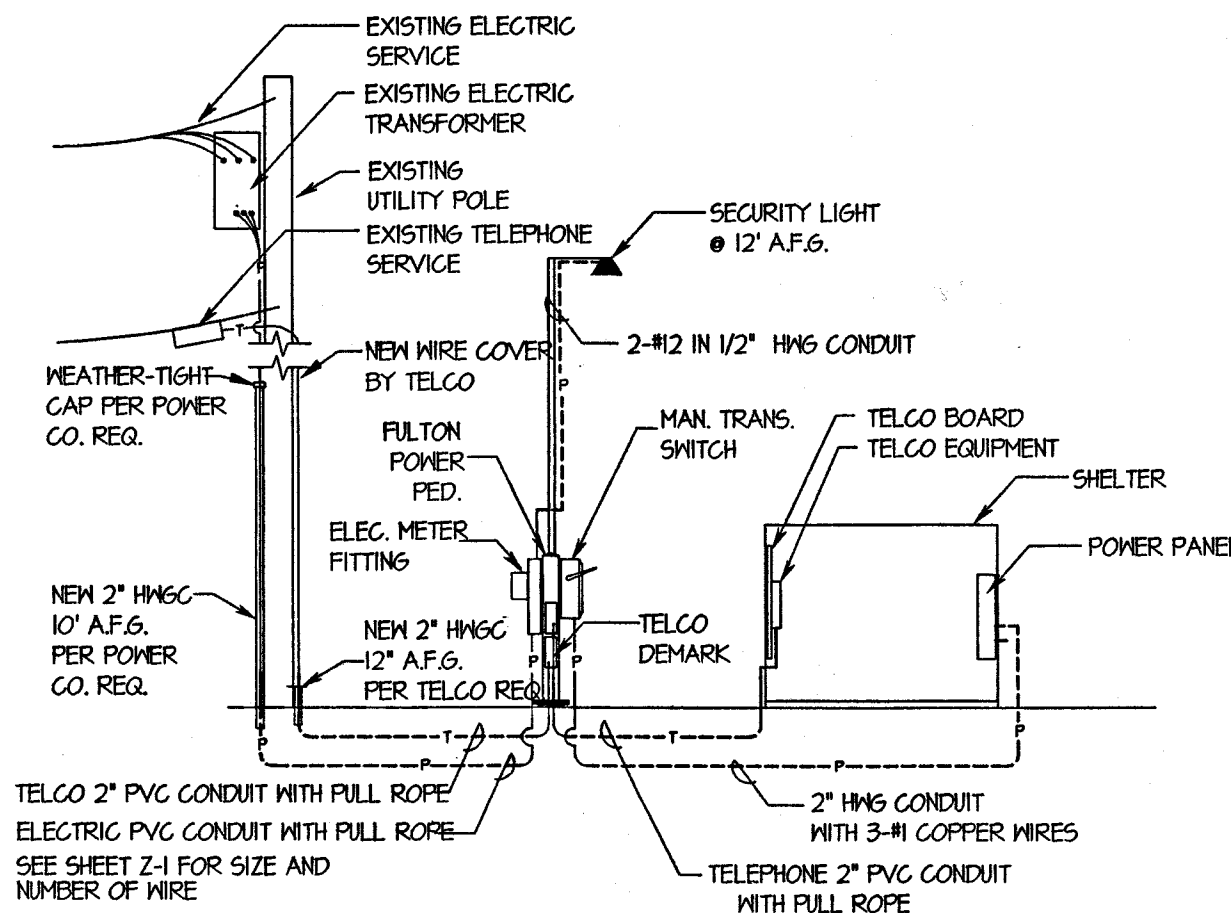


**ELECTRICAL
SITE PLAN**
SCALE: 1/4" = 1'-0"

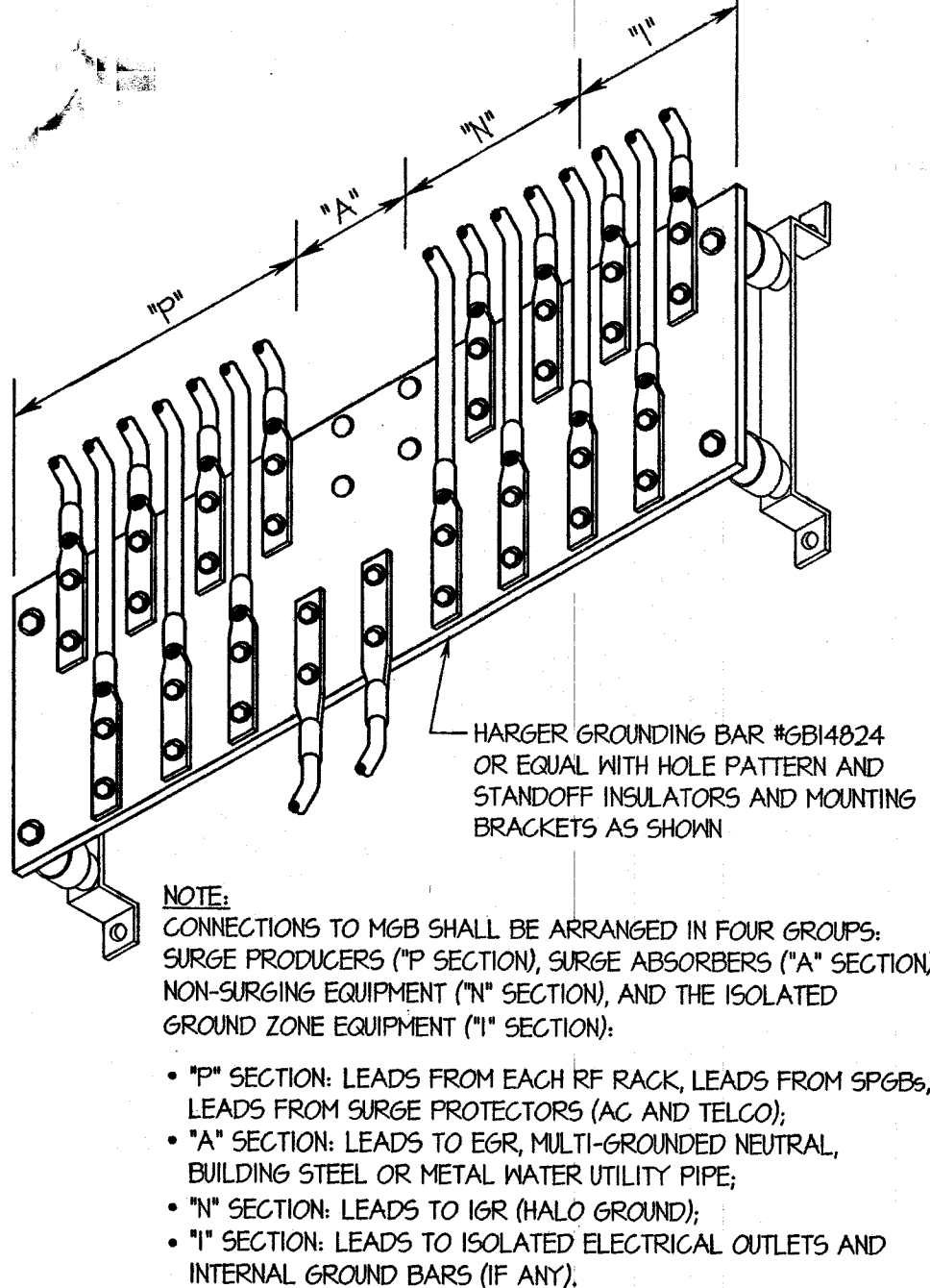
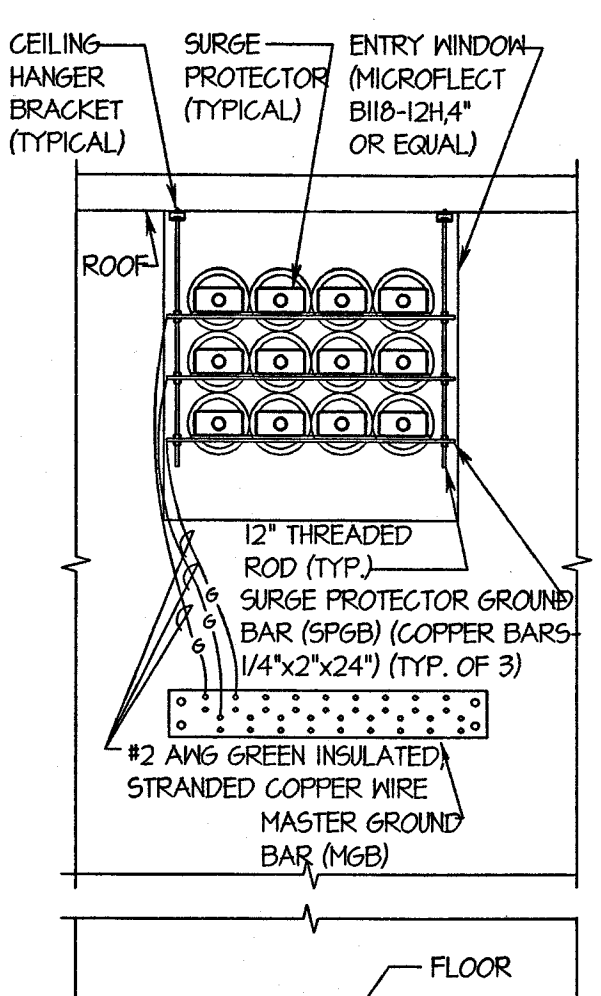
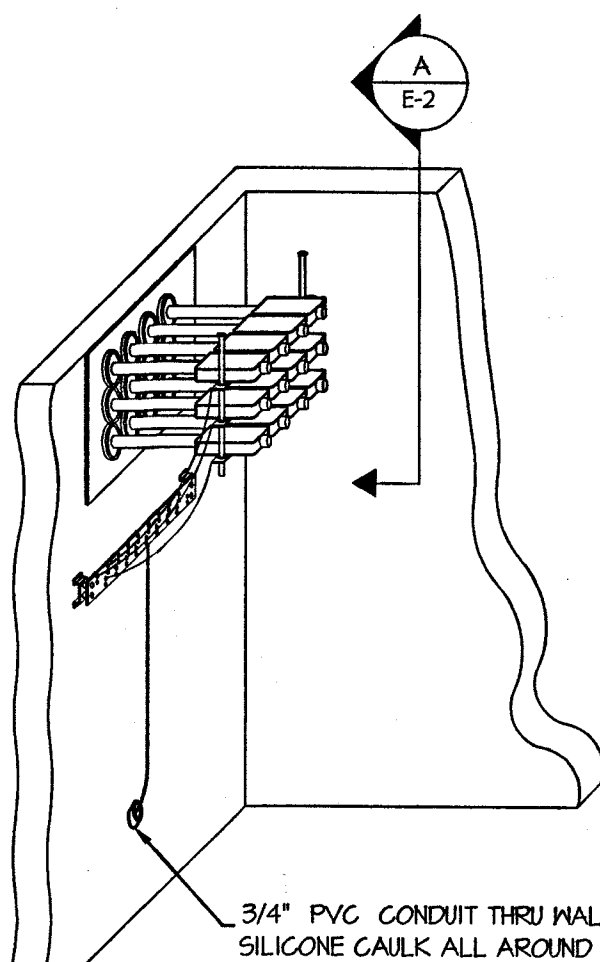
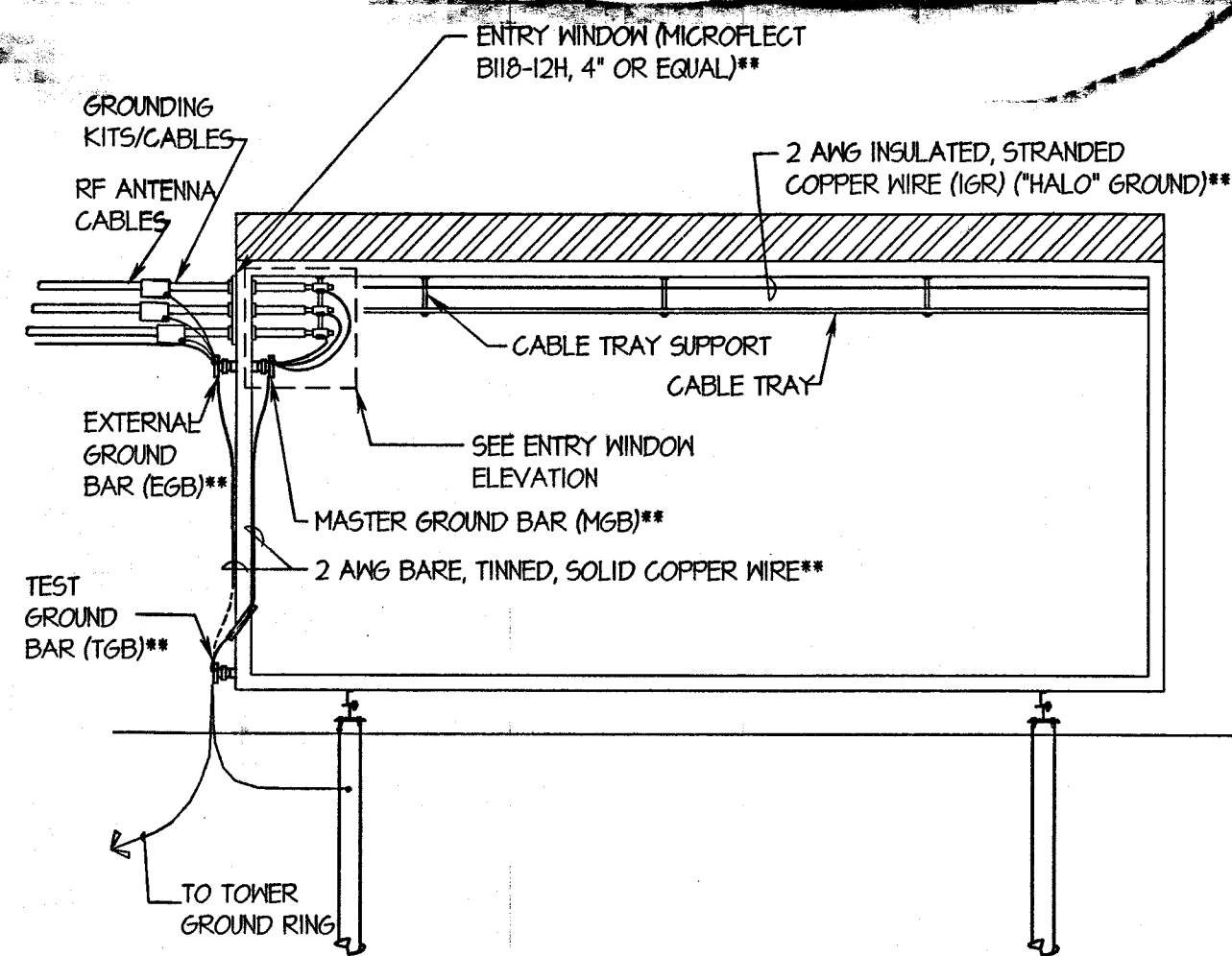
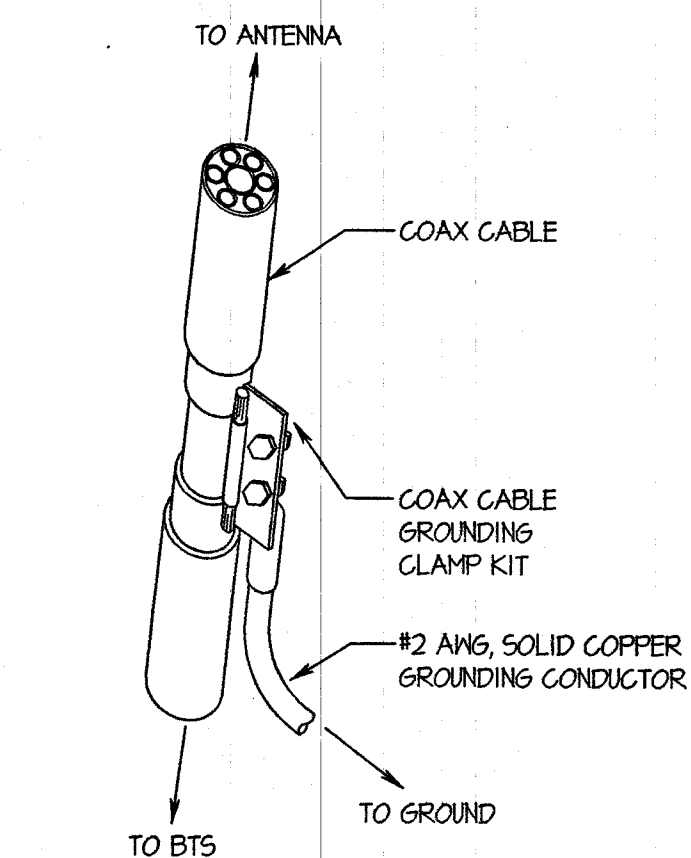
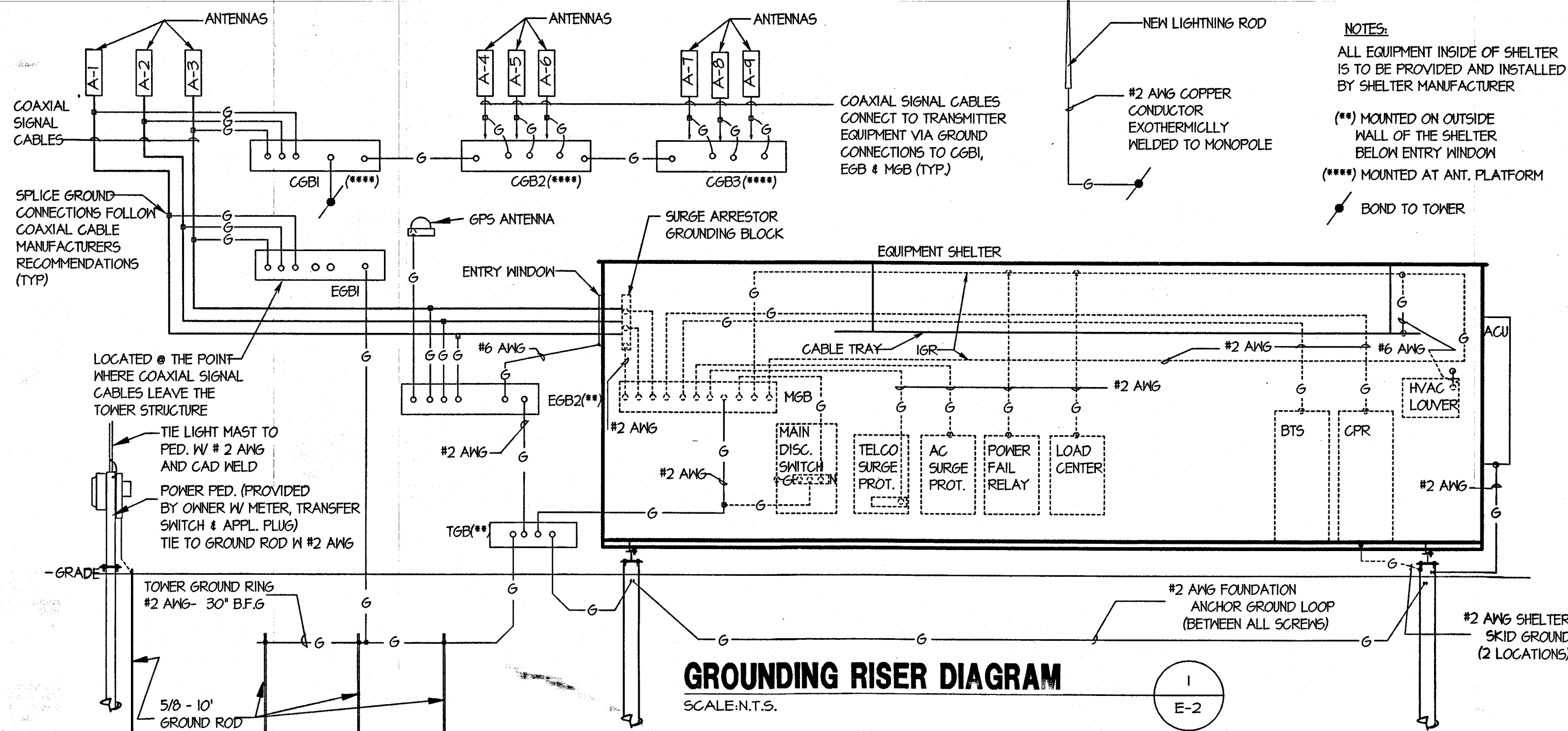
PEDESTAL PROVIDED BY
OWNER, INSTALLED BY G.C.
TELCO. SHALL PROVIDE &
INSTALL TELETREND TELCO
ELECTRIC UTILITY SHALL
PROVIDE AND INSTALL METER.



POWER DIAGRAM
SCALE: N.T.S.



ELECTRICAL/TELEPHONE RISER
SCALE: N.T.S.



PRIMECO
PERSONAL COMMUNICATIONS
ONE PIERCE PLACE
SUITE 1100
ITASCA, ILLINOIS 60143
OFFICE: (630) 773-1600
FAX: (630) 285-1580

APPROVALS

PRIMECO _____

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

BSIE _____

FIXNET _____

PROJECT NO. T97176

DRAWN BY: CDG

CHECKED BY: KMM

2	07-14-97	FOR CONSTRUCTION
1	07-10-97	FOR ZONING

W-T

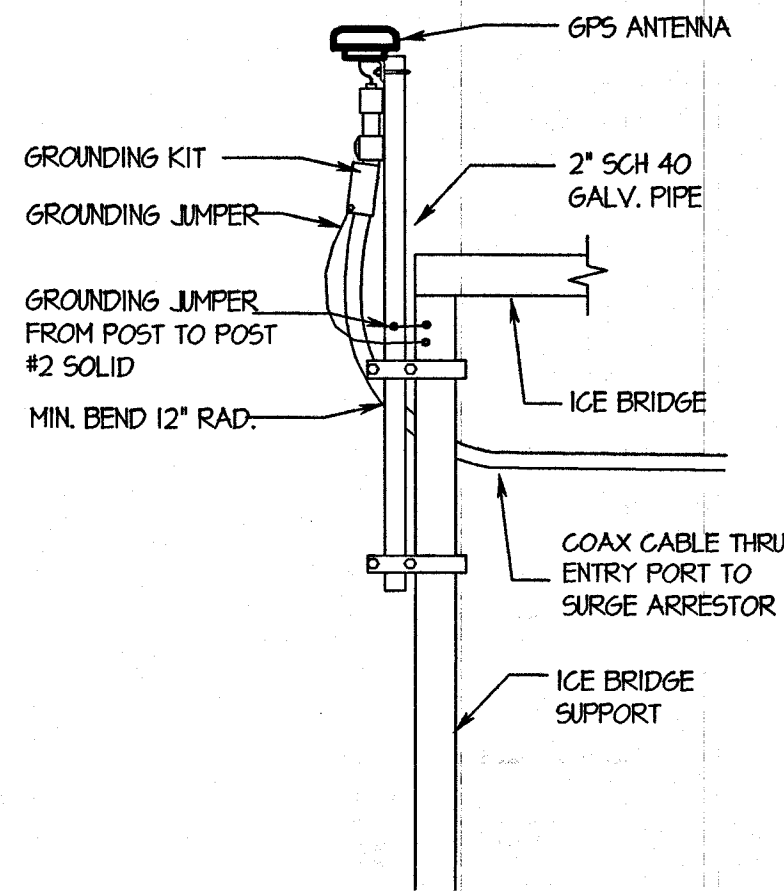
W-T ENGINEERING, INC.
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39 EAST SCULLY DRIVE
SCHAUMBURG, ILLINOIS 60193
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CGB 3617-2
DECATUR
N.E.

2205 BRUSH COLLAGE RD.
DECATUR, ILLINOIS

SHEET TITLE
GROUNDING RISER AND DETAILS

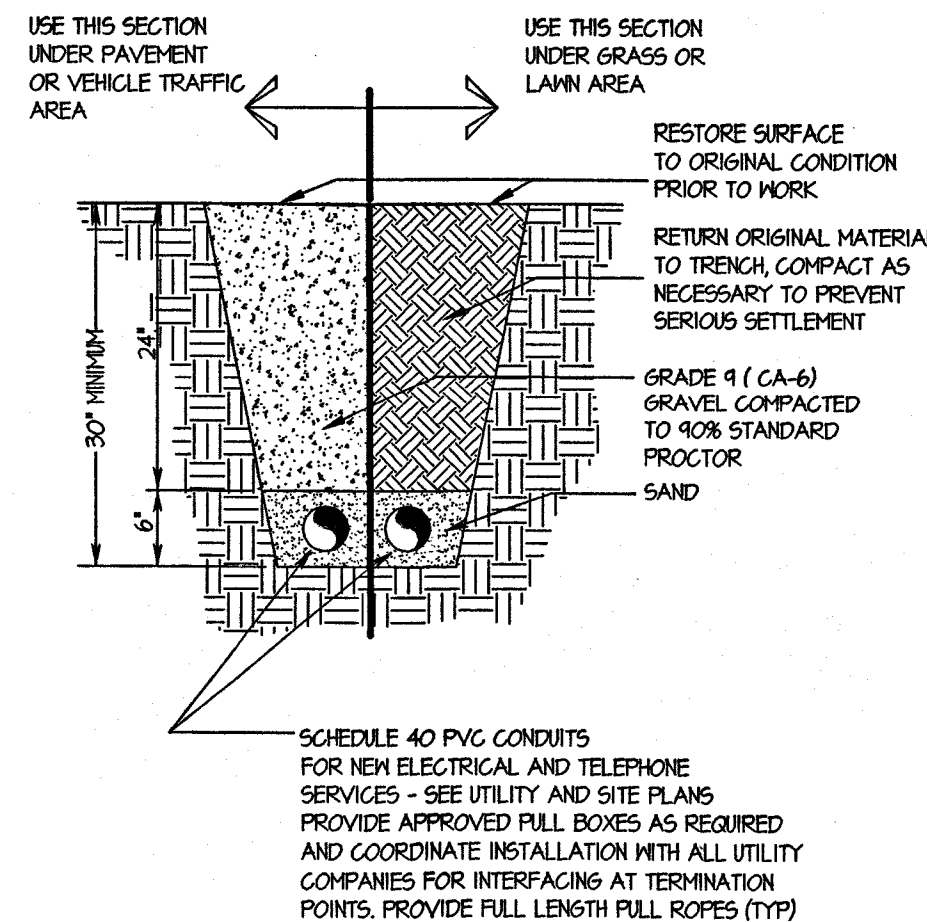
SHEET NUMBER
E-2



GPS ANTENNA MOUNT DETAIL (ICE BRIDGE)

SCALE: 1/2" = 1'-0"

1
E-3



BURIED CABLE DETAIL

SCALE: N.T.S.

2
E-3

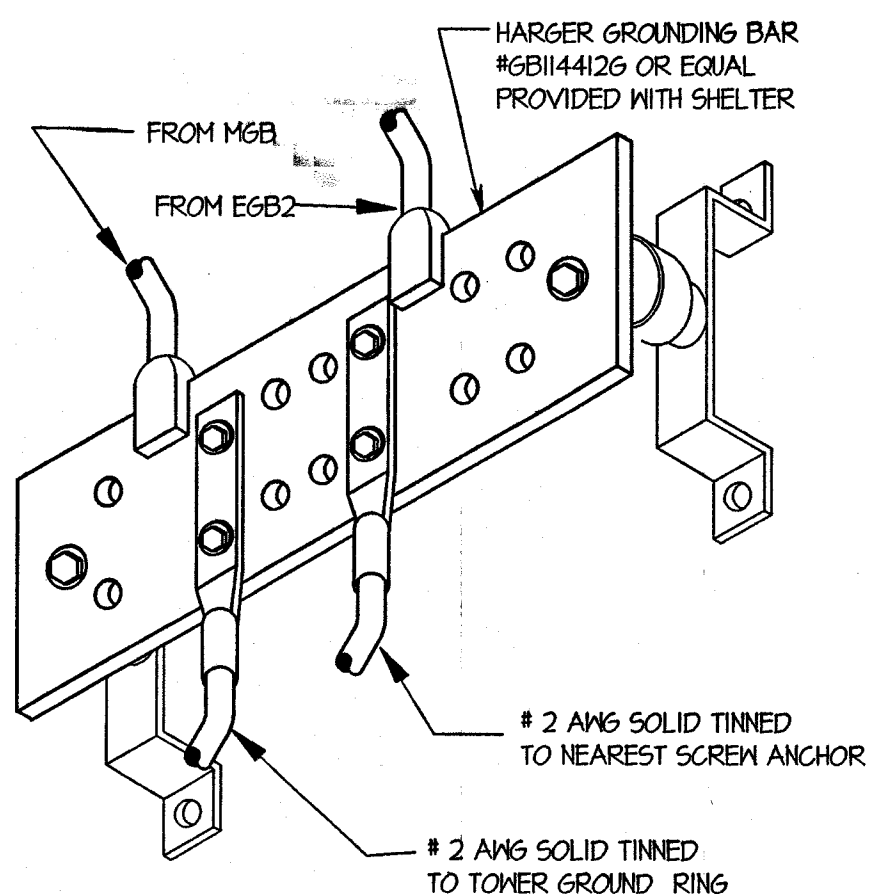
ANTENNA AND COAXIAL CABLE SCHEDULE								
ANTENNA MARK	SECTOR	ANTENNA	COAXIAL CABLE FEED LOCATION	DOWN-TILT	AZIMUTH	ANTENNA E HEIGHT	COAXIAL CABLE MARK	COAXIAL CABLE
A-1	1	ALLEN TELECOM DB980H10E (63"x 6.3"x 2")	BOTTOM	SEE NOTE 1.	SEE NOTE 3.	SEE NOTE 2.	C-1	SEE NOTE 4.
A-2	1	-FUTURE-	---	---	---	---	---	---
A-3	1	ALLEN TELECOM DB980H10E (63"x 6.3"x 2")	BOTTOM	SEE NOTE 1.	SEE NOTE 3.	SEE NOTE 2.	C-3	SEE NOTE 4.
A-4	2	ALLEN TELECOM DB980H10E (63"x 6.3"x 2")	BOTTOM	SEE NOTE 1.	SEE NOTE 3.	SEE NOTE 2.	C-4	SEE NOTE 4.
A-5	2	-FUTURE-	---	---	---	---	---	---
A-6	2	ALLEN TELECOM DB980H10E (63"x 6.3"x 2")	BOTTOM	SEE NOTE 1.	SEE NOTE 3.	SEE NOTE 2.	C-6	SEE NOTE 4.
A-7	3	ALLEN TELECOM DB980H10E (63"x 6.3"x 2")	BOTTOM	SEE NOTE 1.	SEE NOTE 3.	SEE NOTE 2.	C-7	SEE NOTE 4.
A-8	3	-FUTURE-	---	---	---	---	---	---
A-9	3	ALLEN TELECOM DB980H10E (63"x 6.3"x 2")	BOTTOM	SEE NOTE 1.	SEE NOTE 3.	SEE NOTE 2.	C-9	SEE NOTE 4.

COAX CABLE CHART

COAX CABLE LENGTH	CABLE TYPE AND DIAMETER
1. LESS THAN 65'	HELIAX 1/8" LDF5-50A
2. 65' TO 130'	HELIAX 1 1/4" LDF6-50
3. 130' TO 225'	HELIAX 1 5/8" LDF7-50A
4. MORE THAN 225'	HELIAX 2 1/4" LDF12-50

NOTES

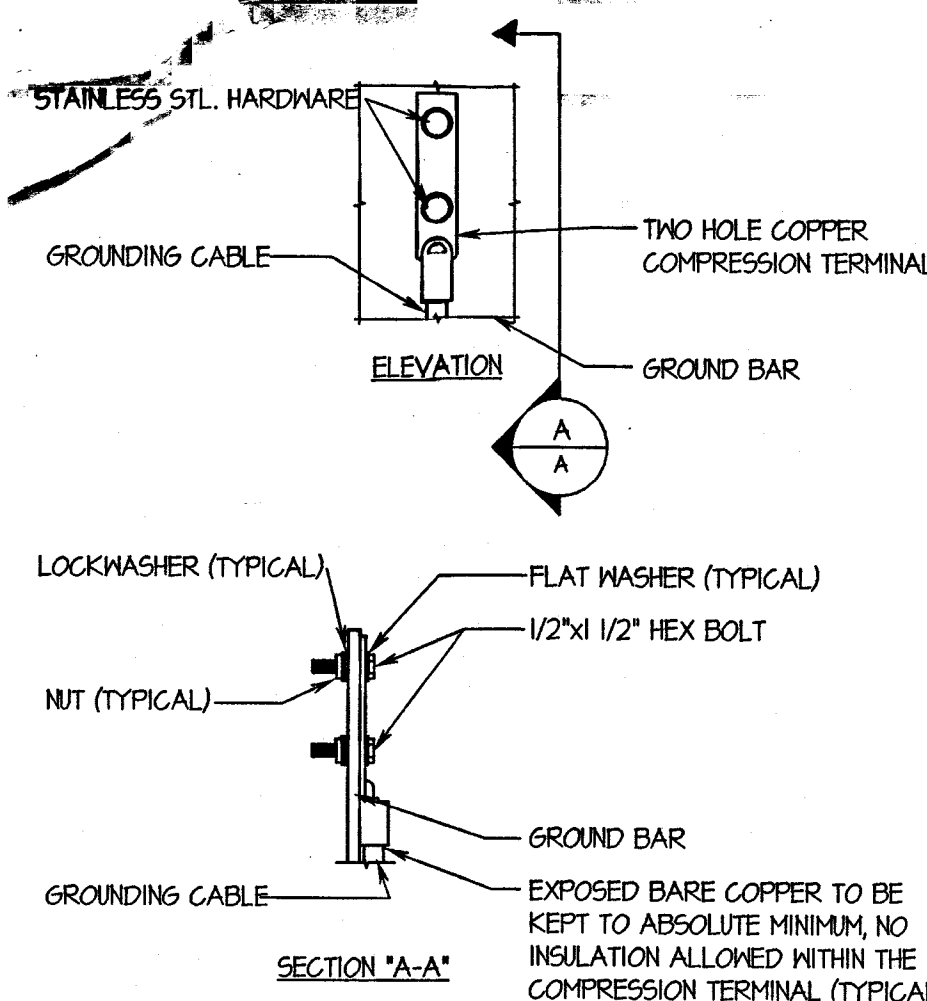
- ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWNTILT FOR EACH ANTENNA WITH RF ENGINEER.
- ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION O.O'. ANTENNA HEIGHTS ARE SHOWN ON TOWER ELEVATION SHEET Z-2
- ANTENNA AZIMUTHS SHOWN ON SITE PLAN. SHEET Z-1
- SEE COAX CABLE CHART AT LEFT FOR CABLE DIAMETERS.
- CHECK WITH RF ENGINEER FOR LATEST ANTENNA TYPE & AZIMUTH.
- CONTRACTOR SHALL VERIFY ANTENNA TYPE AND AZIMUTH WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.



TEST GROUND BAR (TGB)

SCALE: N.T.S.

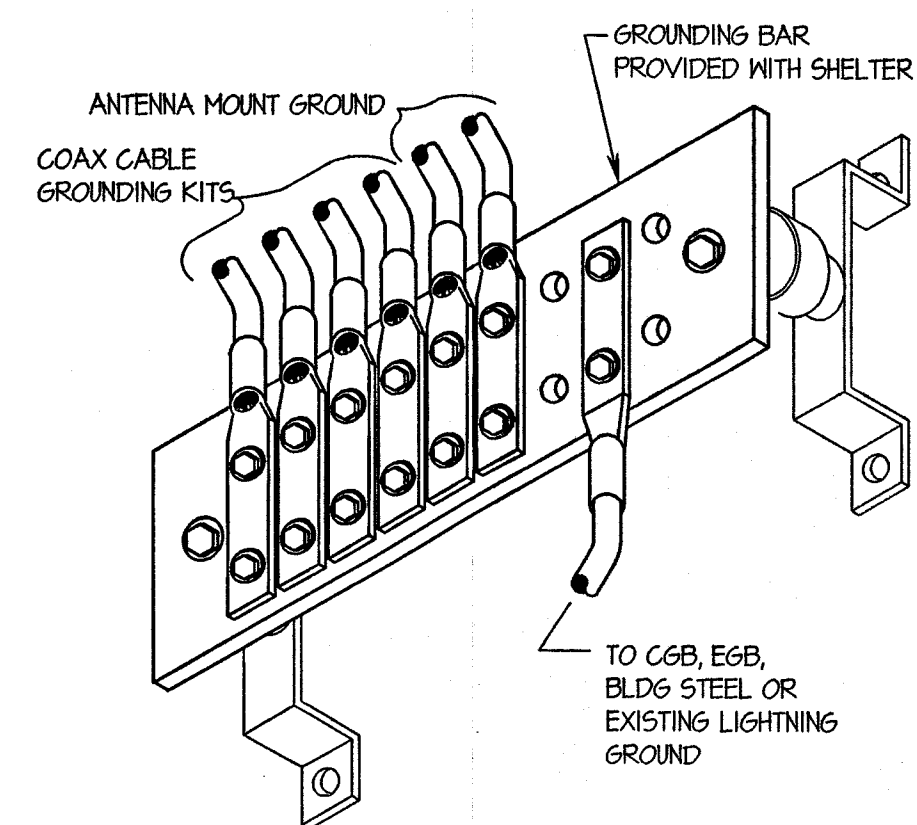
3
E-3



TYPICAL GROUND BAR CONNECTIONS DETAIL

SCALE: N.T.S.

4
E-3



COLLECTOR GROUND BAR (CGB)

SCALE: N.T.S.

5
E-3



APPROVALS

PRIMECO _____
LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
BSIE _____
FIXNET _____

PROJECT NO: T97178

DRAWN BY: CDG

CHECKED BY: KMM

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DECATUR, ILLINOIS

SHEET TITLE

ELEVATIONS, AND
ANTENNA SCHEDULE

SHEET NUMBER

E-3