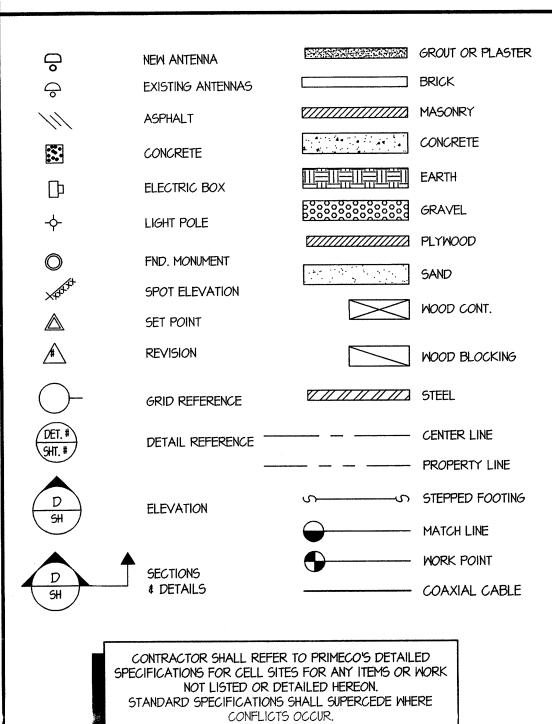
ABBREVIATIONS

40.1	AD RETARIE	CE.	COURSE FOOT
ADJ	ADJUSTABLE	SF	SQUARE FOOT
	APPROXIMATE	SHT	SHEET
CAB	CABINET	SIM	SIMILAR
CLG	CEILING	55 a=:	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	WWF	WELDED WIRE FABRIC
ELEC	ELECTRICAL	W	MITH
EL	ELEVATION	BTS	BASE TRANSMISSION
EQ	EQUAL	DIJ	STATION
EQUIP	EQUIPMENT	200	
EXT	EXTERIOR	PCS	PERSONAL COMMUNICATIONS
FF	FINISHED FLOOR		SERVICES
GA	GAUGE		
GALV	GALVANIZED	A-I	ANTENNA MARK NO.
GC	GENERAL CONTRACTOR	_	
GRND	GROUND	P	CENTERLINE
LG	LONG	P	PLATE
MAX	MAXIMUM	_	4110
MECH	MECHANICAL	ŧ	AND
MFR	MANUFACTURER	0	AT
MGB	MASTER GROUND BAR		
	1. 215 114 27 65 2		

OPP OPPOSITE

SYMBOLS AND MATERIALS



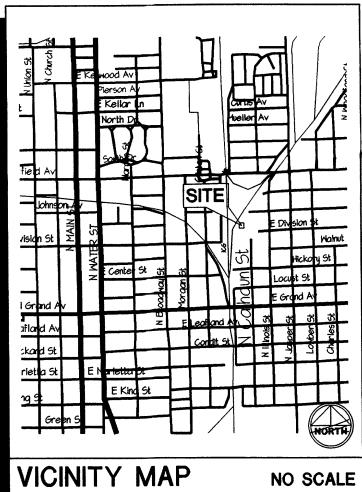


N. CENTRAL DECATUR

1595 CALHOUN STREET DECATUR,, ILLINOIS

CGB 3613-14

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



FROM PRIMECO OFFICES IN ITASCA:

TAKE 72 WEST TO HIGHWAY 51. TAKE HIGHWAY 51 SOUTH 3.5 MILES TO GRAND ROAD. GO EAST ON GRAND 0.5

MILE TO CALHOUN STREET. TAKE CALHOUN NORTH 0.3

TO SITE. THE SITE IS LOCATED ON THE WEST SIDE OF

CALHOUN ST., BEHIND THE BUILDING AT 1595 CALHOUN.

CINITY MAP NO SCALE

DRIVING DIRECTIONS

SITE NUMBER: CGB 36I3-I4

SITE NAME: N. CENTRAL DECATUR

SITE ADDRESS: I595 CALHOUN STREET
DECATUR, ILLINOIS 62525

PROPERTY OWNER: WOARE BUILDERS SUPPLY COMPANY

LOT NUMBER: N/A

BLOCK NUMBER: N/A

APPLICANT: PRIMECO PERSONAL COMMUNICATIONS, L.P.
ONE PIERCE PLACE, SUITE IIOO
ITASCA, ILLINOIS 60I43

CONTACT PERSON: JOE PECKENS
CONTACT PHONE NO.: (630) TT3-I600

ASSESSOR'S
PARCEL NO.: 04-I2-II-204-006

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING

DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL

IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY

DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR

BE RESPONSIBLE FOR SAME

SHT. NO. DESCRIPTION REV. NO.

T-I TITLE SHEET

L5-I SITE SURVEY

Z-I SITE PLAN

Z-2 ELEVATIONS

A-I SITE PLAN, AND PROJECT NOTES

A-2 ANTENNA LOCATION PLAN, SECTIONS

AND ELEVATIONS

S-I SCREW ANCHOR FOUNDATION SECTIONS,

AND DETAILS

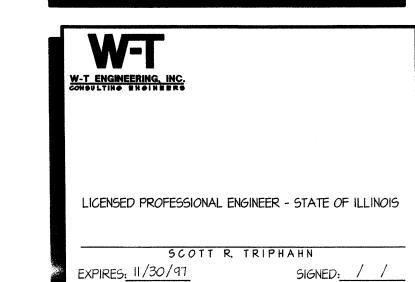
E-I ELECTRICAL PLAN, RISER, NOTES, DETAILS

E-2 GROUNDING RISER AND DETAILS

E-3 ELEVATIONS, AND ANTENNA SCHEDULE

SHEET INDEX

PROFESSIONAL ENGINEER



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

APPROVALS

LANDLORD

LEASING

R.F.

ZONING

CONSTRUCTION

BSIE

FIXNET

STANDARDS

PROJECT NO: T97203

DRAWN BY: CDG

CHECKED BY: KMM

2 09-01-97 REVISED
1 08-19-97 FOR CONSTRUCTION

W-T ENGINEERING, INC.
CONSULTING ENGINEERS
39 EAST SCULLY DRIVE
SCHAUMBURG. ILLINOIS 60193
ph. (847) 895-3640
fax. (847) 895-9985

CGB 3613-14 N. CENTRAL DECATUR

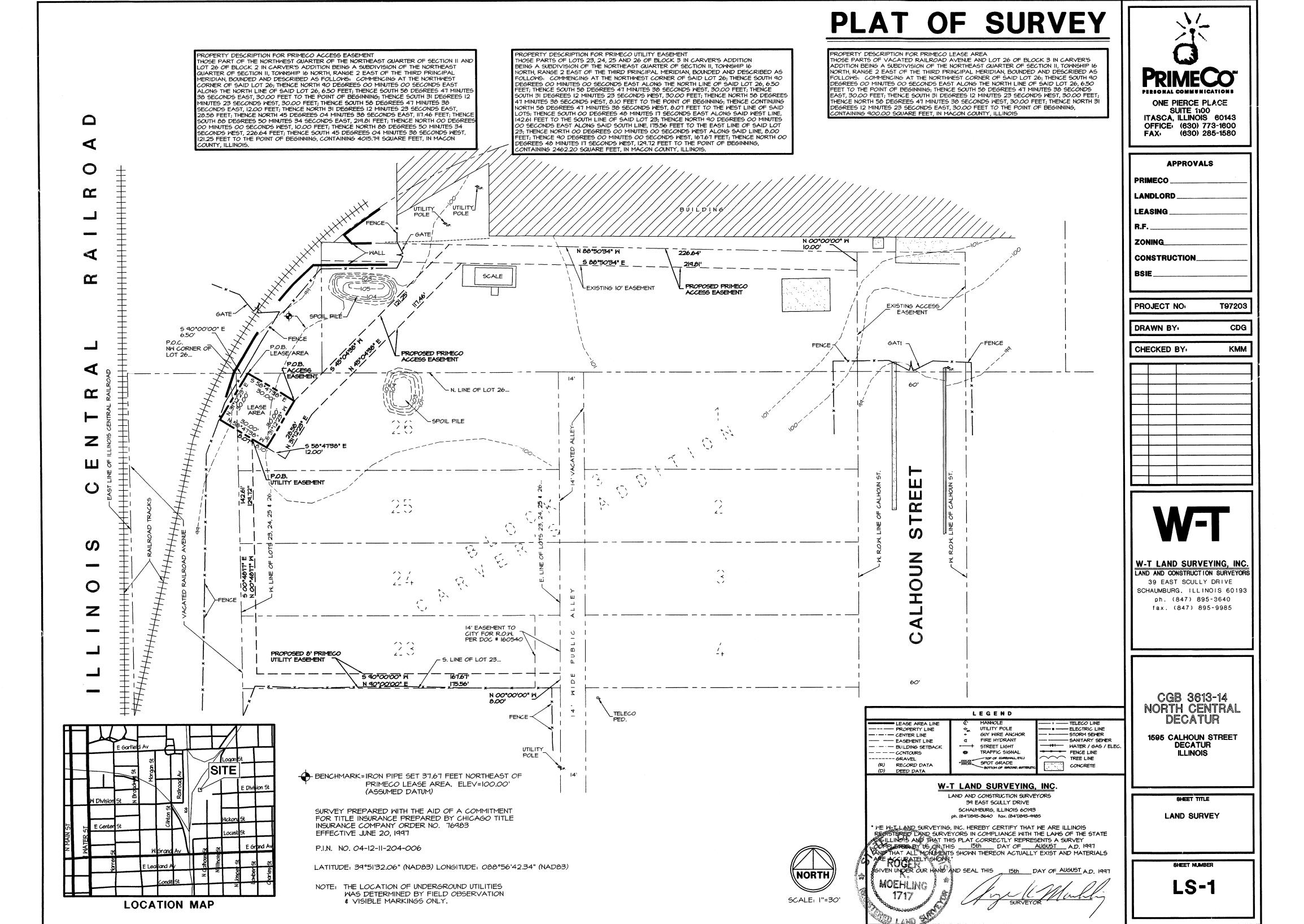
1595 CALHOUN STREET DECATUR, ILLINOIS

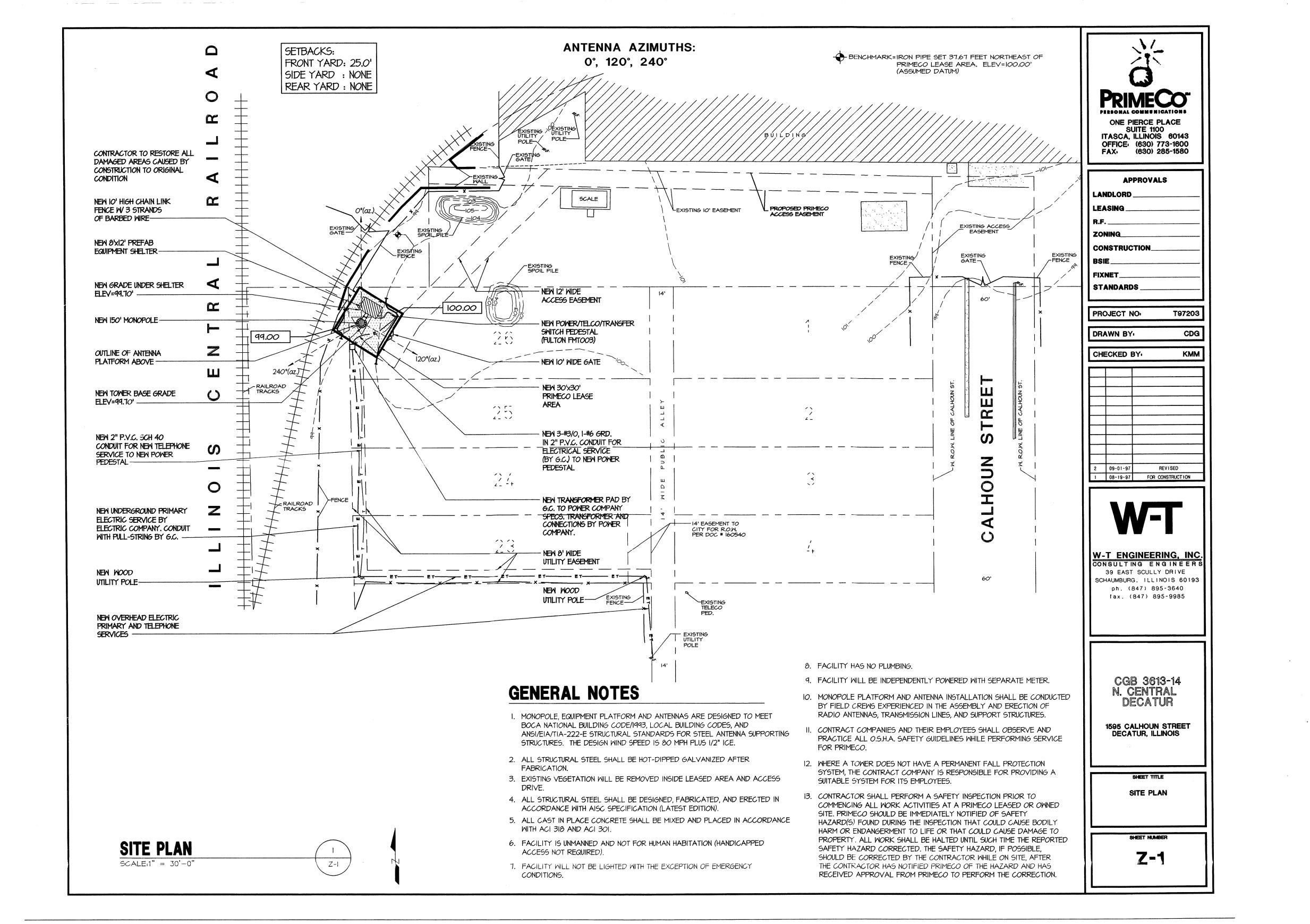
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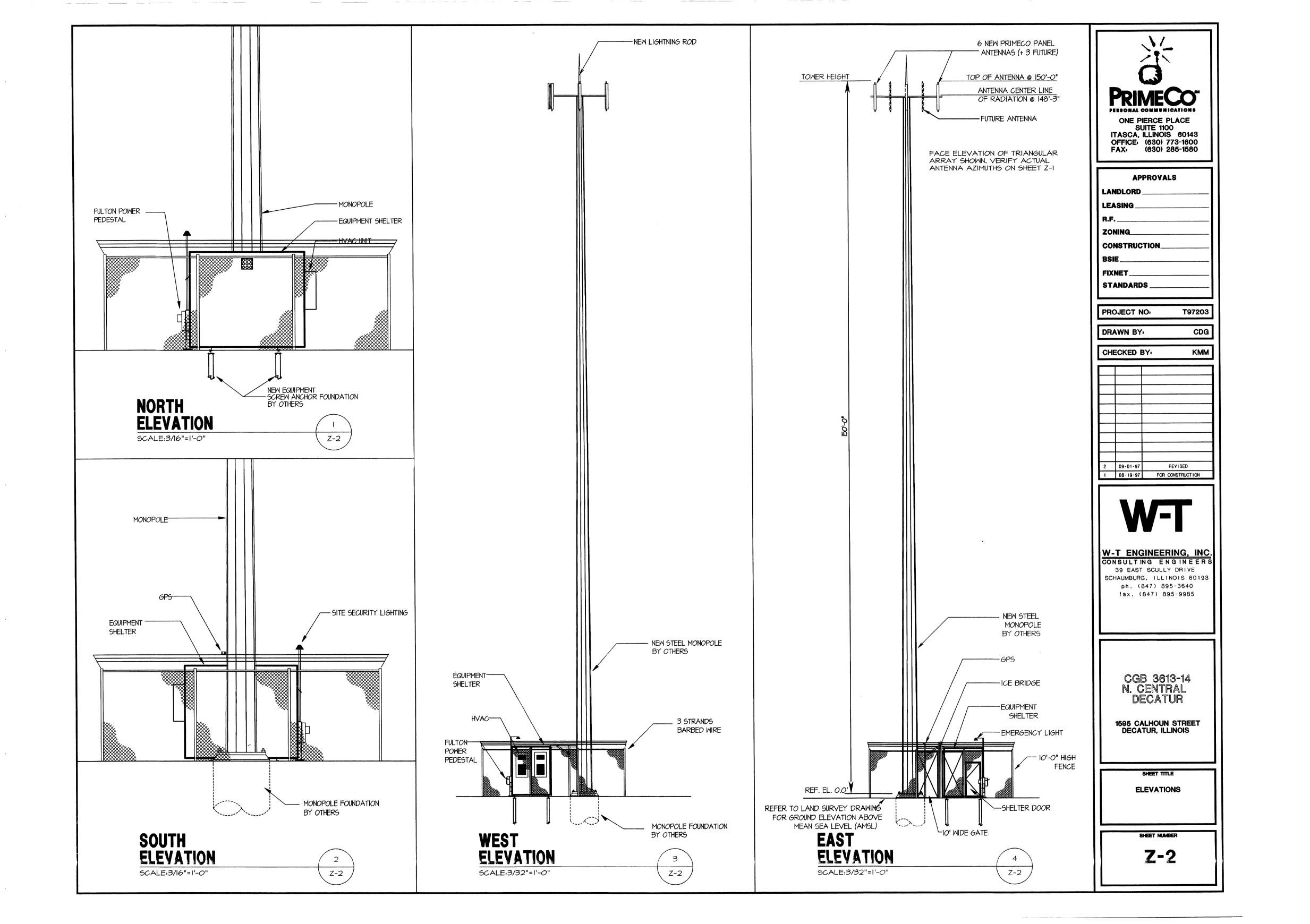
TITLE SHEET

SHEET NUME

T-1







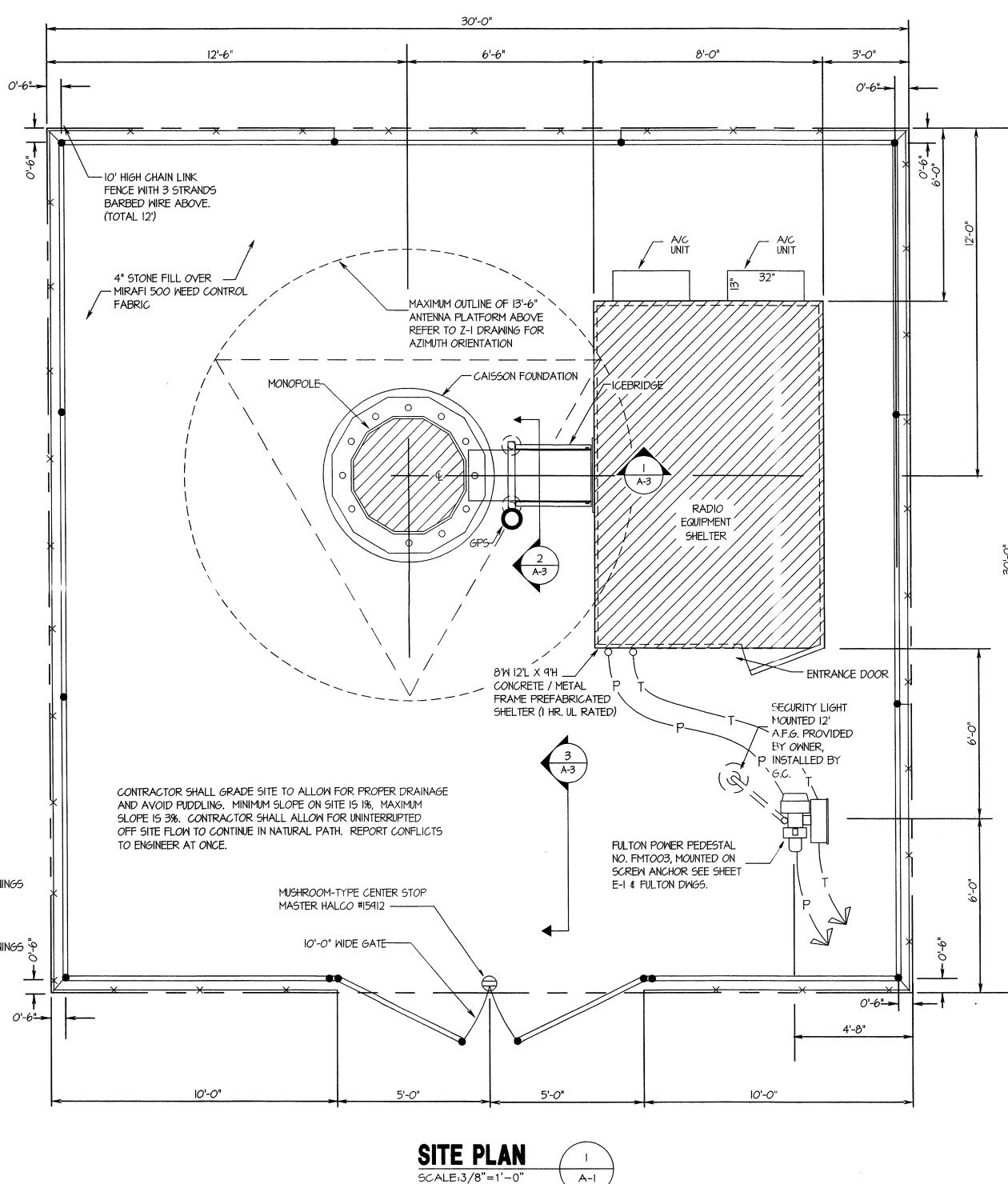


- I. THE GENERAL CONTRACTOR AND OR HIS SUBCONSULTANT SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- 2. REFER TO THE SITE PLAN PREPARED BY OTHERS FOR BOUNDARY SURVEY AND SITE 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 I/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 57 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.I.I-92 STRUCTURAL WELDING CODE- STEEL WELD ELECTRONICS SHALL BE ETOXX.
- 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.
- IO. 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.
- II. 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 AI53. GATES SHALL BE SWING GATES WITH 4'-O" LEAFS. REFER TO TYPICAL FENCE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. INSTALL FENCE AFTER CONCRETE HAS ATTAINED T5% 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-I 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 POR SPECIFIC DETAILS REGARDING FOUNDATION SYSTEM.





APPROVALS

LANDLORD ______

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

BSIE _____

FIXNET ____

STANDARDS _____

PROJECT NO: T97203

DRAWN BY: CDG

CHECKED BY: KMM

09-01-97 REVISED
08-19-97 FOR CONSTRUCTION

W-T

W-T ENGINEERING, INC.

39 EAST SCULLY DRIVE
SCHAUMBURG, ILLINOIS 60193
ph. (847) 895-3640
fax. (847) 895-9985

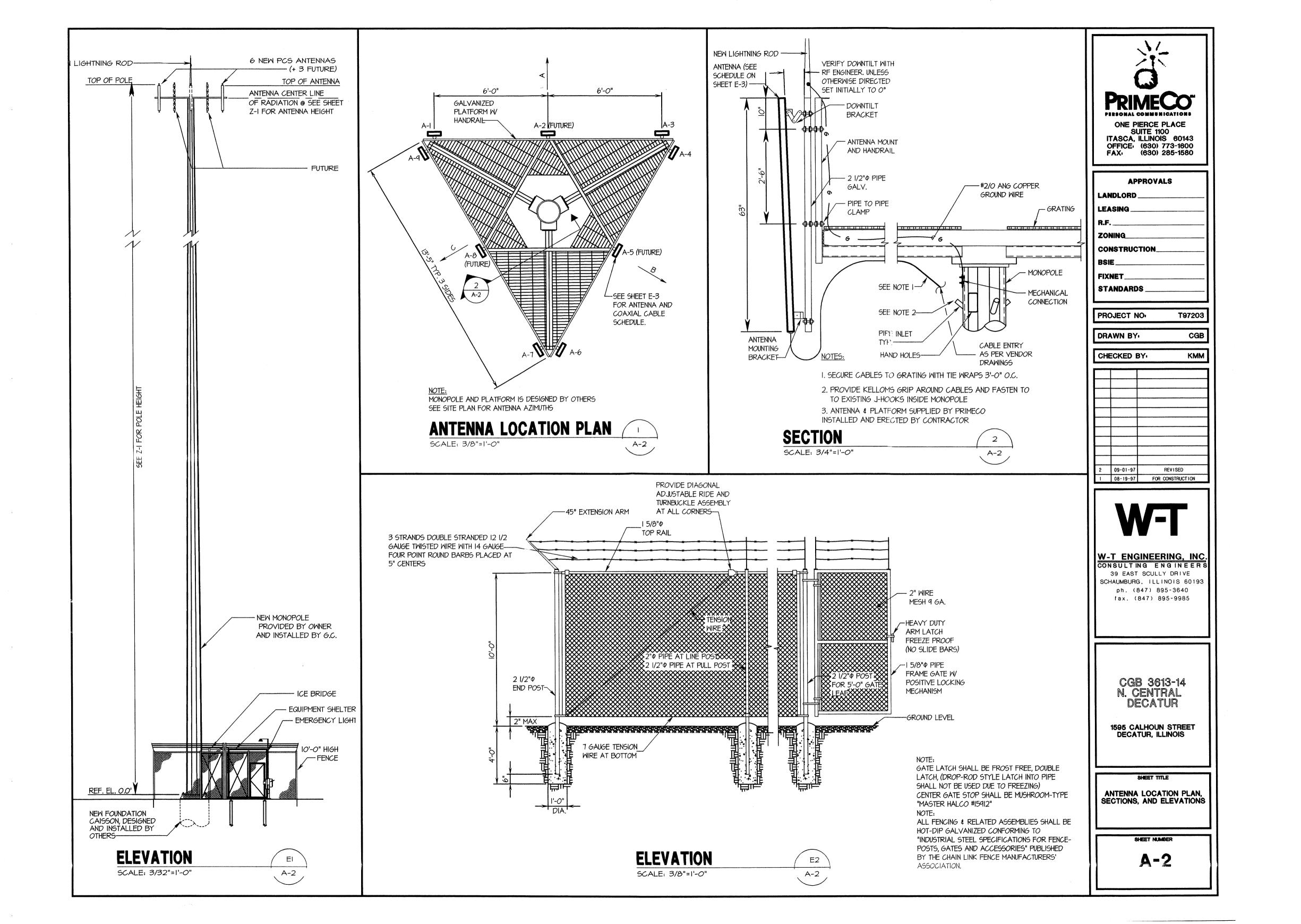
CGB 3613-14 N. CENTRAL DECATUR

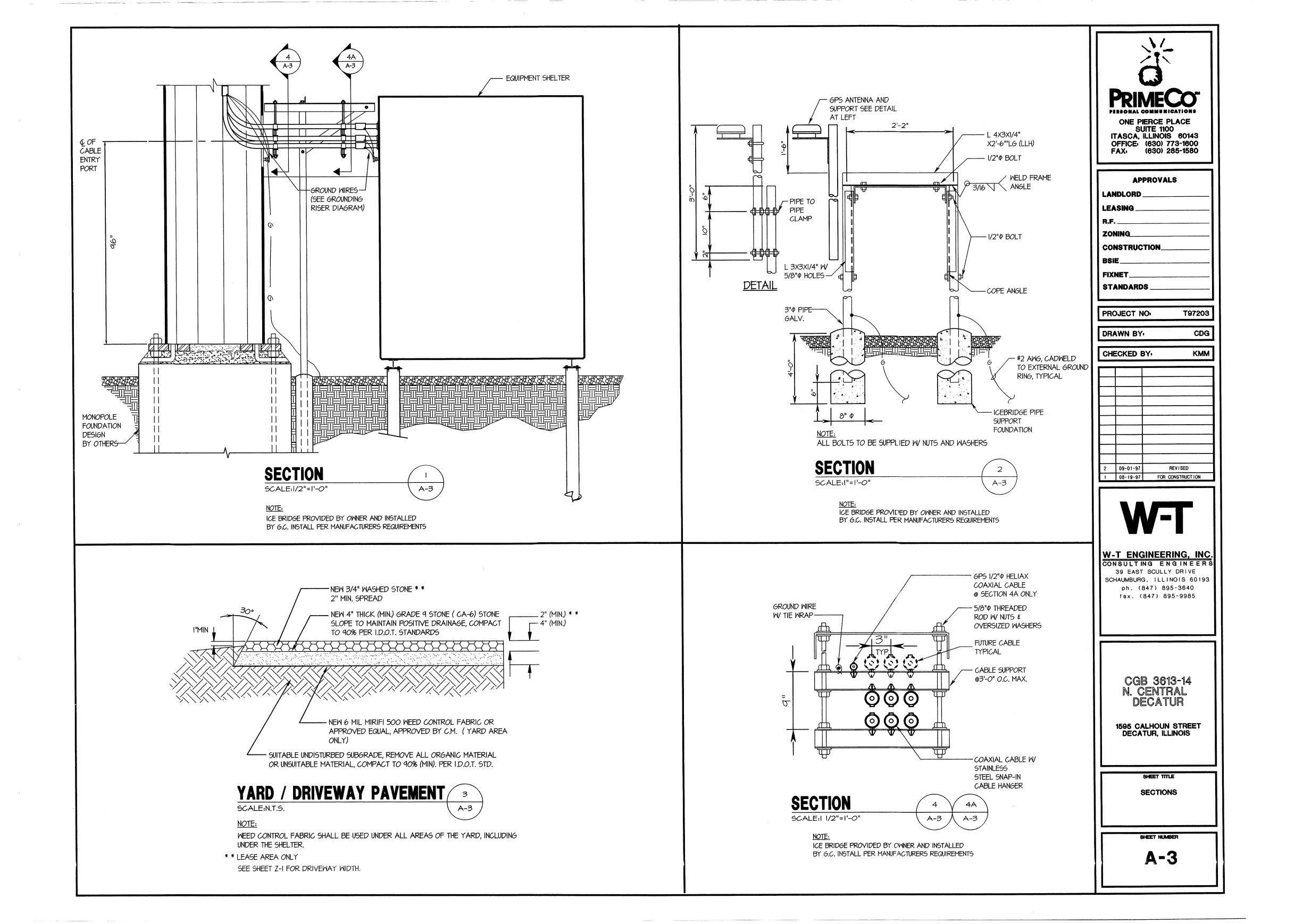
1595 CALHOUN STREET DECATUR, ILLINOIS

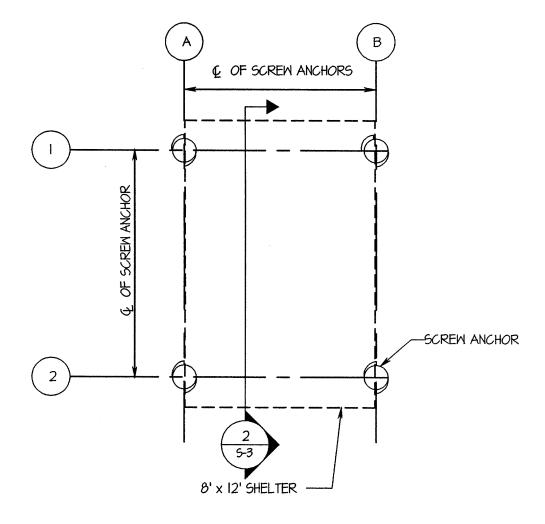
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SITE PLAN & PROJECT NOTES

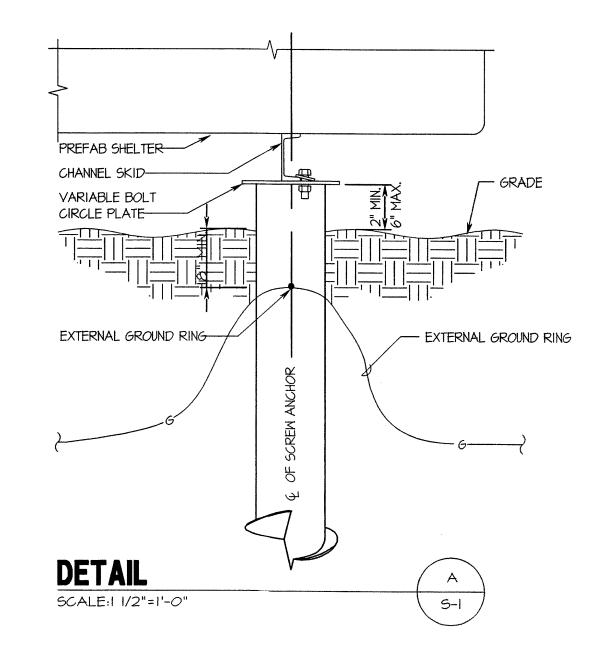
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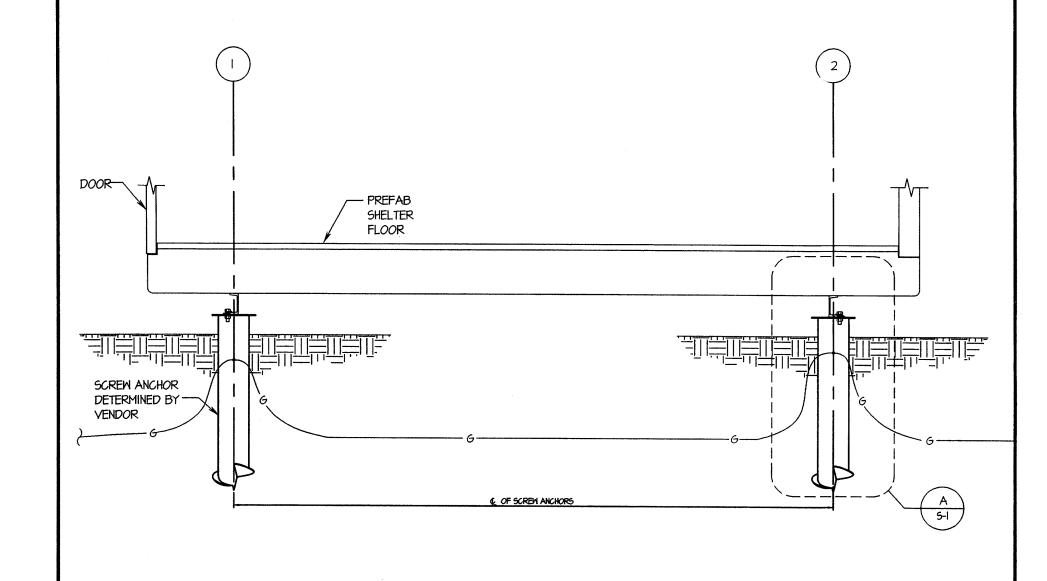






8' x 12' SHELTER SCREW ANCHOR LOCATION PLAN SCALE:1/4"=1'-0"





5-1

SECTION

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

GENERAL NOTES

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



APPROVALS	
LANDI	LORD
LEASI	NG
R.F	
ZONIN	IG
CONS	TRUCTION
BSIE_	T
FIXNE	Τ
STAN	DARDS
STAN	DARDS

<u> </u>			
PR	OJECT N	O: T97203	
DR	AWN BY	CGB	
СН	CHECKED BY: KMM		
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2	09-01-97	REVISED	
1	08-19-97	FOR CONSTRUCTION	



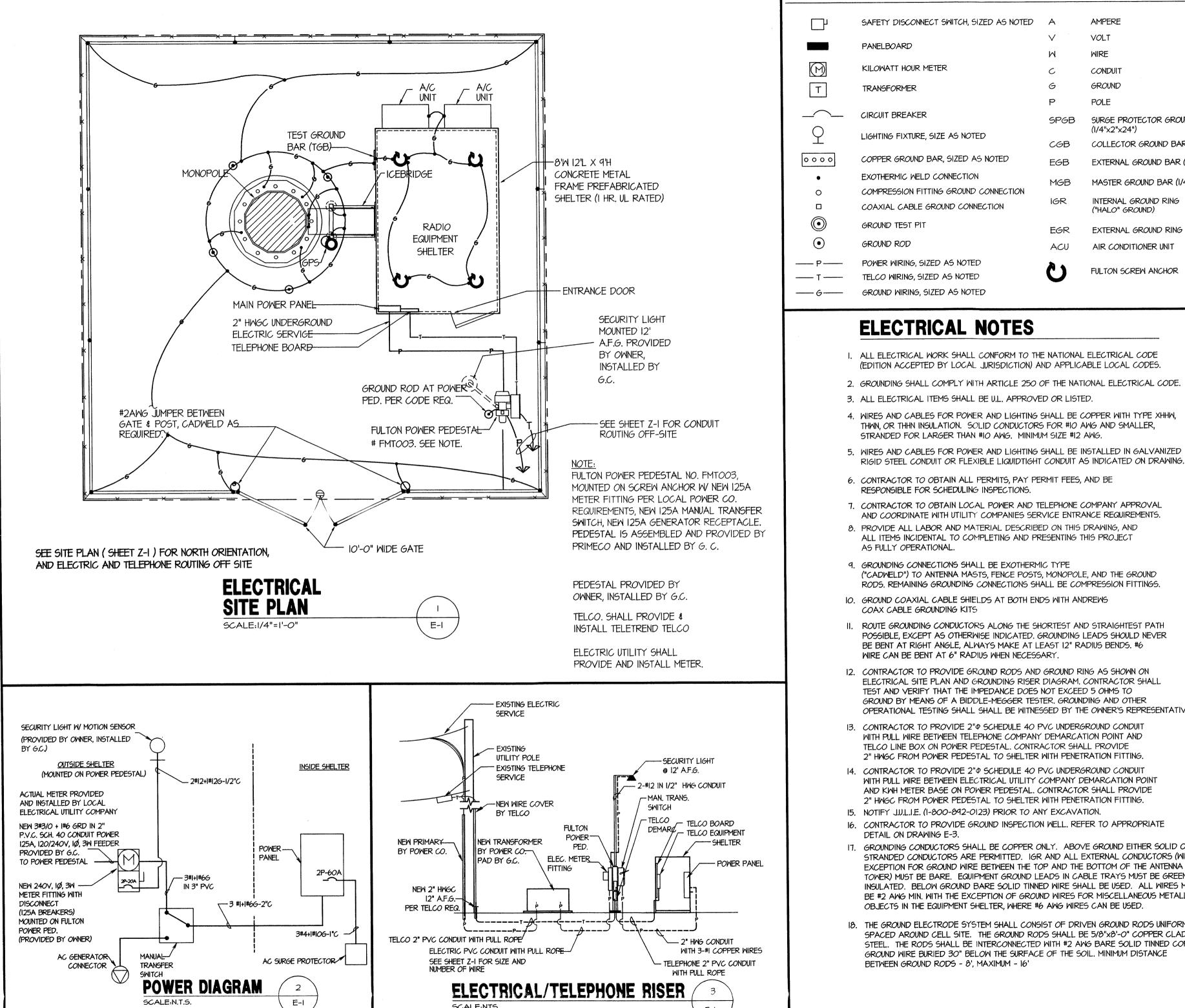
W-T ENGINEERING, INC.
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39 EAST SCULLY DRIVE
SCHAUMBURG, ILLINOIS 60193 ph. (847) 895-3640 fax. (847) 895-9985

CGB 3613-14 N. CENTRAL DECATUR

1595 CALHOUN STREET DECATUR, ILLINOIS

SECTIONS AND DETAILS FOR 8'X12' SCREW ANCHOR FOUNDATION

5-1



LEGEND

			4 4 1470-1977-1970-1977
	SAFETY DISCONNECT SWITCH, SIZED AS NOTED	Α	AMPERE
	PANEL BOARD	V	VOLT
	PANELBOARD	M	WIRE
\bigcirc	KILOWATT HOUR METER	C	CONDUIT
T	TRANSFORMER	6	GROUND
<u> </u>		P	POLE
	CIRCUIT BREAKER	SPGB	SURGE PROTECTOR GROUND BAR (1/4"x2"x24")
9	LIGHTING FIXTURE, SIZE AS NOTED	CGB	COLLECTOR GROUND BAR (1/4"x4"x12")
0000	COPPER GROUND BAR, SIZED AS NOTED	EGB	EXTERNAL GROUND BAR (1/4"x8"x24")
•	EXOTHERMIC WELD CONNECTION	MGB	MASTER GROUND BAR (1/4"x8"x24")
0	COMPRESSION FITTING GROUND CONNECTION COAXIAL CABLE GROUND CONNECTION	IGR	INTERNAL GROUND RING ("HALO" GROUND)
(GROUND TEST PIT	EGR	EXTERNAL GROUND RING
ledot	GROUND ROD	ACU	AIR CONDITIONER UNIT
—— Р—— —— Т——	POWER WIRING, SIZED AS NOTED TELCO WIRING, SIZED AS NOTED	O	FULTON SCREW ANCHOR
—— <i>6</i> ——	GROUND WIRING, SIZED AS NOTED		

I. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (EDITION ACCEPTED BY LOCAL JURISDICTION) AND APPLICABLE LOCAL CODES.

THMN, OR THHN INSULATION. SOLID CONDUCTORS FOR #10 AMG AND SMALLER,

7. CONTRACTOR TO OBTAIN LOCAL POWER AND TELEPHONE COMPANY APPROVAL

8. PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND

ALL ITEMS INCIDENTAL TO COMPLETING AND PRESENTING THIS PROJECT

AND COORDINATE WITH UTILITY COMPANIES SERVICE ENTRANCE REQUIREMENTS.

("CADWELD") TO ANTENNA MASTS, FENCE POSTS, MONOPOLE, AND THE GROUND

RODS. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS.

II. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH

BE BENT AT RIGHT ANGLE, ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6

13. CONTRACTOR TO PROVIDE 2" O SCHEDULE 40 PVC UNDERGROUND CONDUIT WITH PULL WIRE BETWEEN TELEPHONE COMPANY DEMARCATION POINT AND

TELCO LINE BOX ON POWER PEDESTAL. CONTRACTOR SHALL PROVIDE 2" HWGC FROM POWER PEDESTAL TO SHELTER WITH PENETRATION FITTING.

14. CONTRACTOR TO PROVIDE 2" O SCHEDULE 40 PVC UNDERGROUND CONDUIT

15. NOTIFY J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY EXCAVATION.

BETWEEN GROUND RODS - 8', MAXIMUM - 16'

WITH PULL WIRE BETWEEN ELECTRICAL UTILITY COMPANY DEMARCATION POINT

AND KWH METER BASE ON POWER PEDESTAL. CONTRACTOR SHALL PROVIDE

17. GROUNDING CONDUCTORS SHALL BE COPPER ONLY. ABOVE GROUND EITHER SOLID OR

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

18. THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS UNIFORMLY

GROUND WIRE BURIED 30" BELOW THE SURFACE OF THE SOIL. MINIMUM DISTANCE

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

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

STRANDED CONDUCTORS ARE PERMITTED. IGR AND ALL EXTERNAL CONDUCTORS (WITH THE

2" HMGC FROM POWER PEDESTAL TO SHELTER WITH PENETRATION FITTING.

OBJECTS IN THE EQUIPMENT SHELTER, WHERE #6 AWG WIRES CAN BE USED.

POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER

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 SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE.

RIGID STEEL CONDUIT OR FLEXIBLE LIQUIDTIGHT CONDUIT AS INDICATED ON DRAWING.

STRANDED FOR LARGER THAN #10 AWG. MINIMUM SIZE #12 AWG.

6. CONTRACTOR TO OBTAIN ALL PERMITS, PAY PERMIT FEES, AND BE

ELECTRICAL NOTES

RESPONSIBLE FOR SCHEDULING INSPECTIONS.

9. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE

WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.

AS FULLY OPERATIONAL.

COAX CABLE GROUNDING KITS

DETAIL ON DRAWING E-3.

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

APPROVALS
LANDLORD
LEASING
R.F
ZONING
CONSTRUCTION
BSIE
FIXNET
STANDARDS

PROJECT NO T97203 DRAWN BY KMM CHECKED BY REVISED

2 | 09-01-97 |



1 08-19-97 FOR CONSTRUCTION

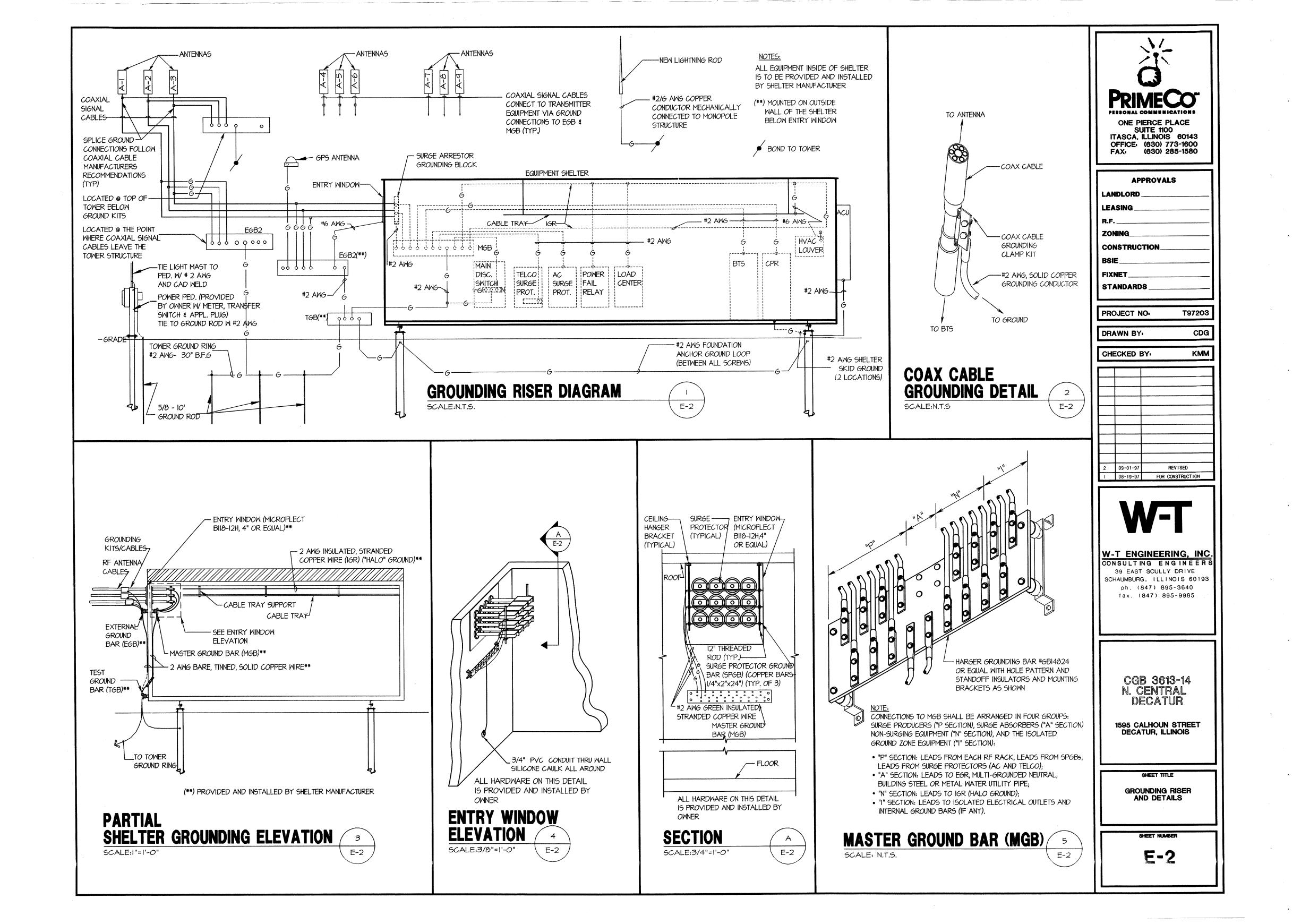
W-T ENGINEERING, INC CONSULTING ENGINEERS 39 EAST SCULLY DRIVE

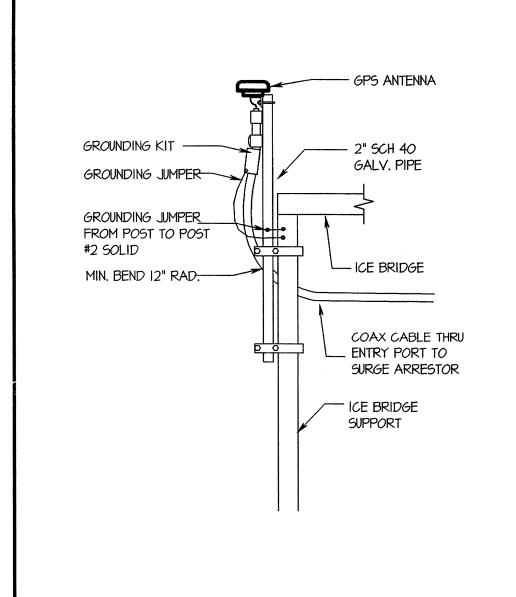
SCHAUMBURG, ILLINOIS 60193 ph. (847) 895-3640 fax. (847) 895-9985

CGB 3613-14 N. CENTRAL DECATUR

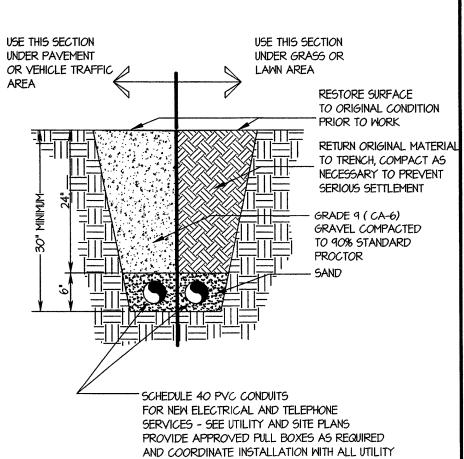
1595 CALHOUN STREET DECATUR, ILLINOIS

ELECTRICAL PLAN, RISER, NOTES AND DETAILS





GPS ANTENNA MOUNT DETAIL (ICE BRIDGE) SCALE:1/2"=1'-O" E-3



COMPANIES FOR INTERFACING AT TERMINATION

BURIED CABLE DETAIL

SCALE: N.T.S.

POINTS. PROVIDE FULL LENGTH PULL ROPES (TYP)

E-3

E-3

	A	NTENNA ANI	D COA	XIAL	CABI	E SC	HEDUL	E
ANTENNA MARK	SECTOR	ANTENNA	COAXIAL CABLE FEED LOCATION	DOWN-TILT	AZIMUTH	ANTENNA & HEIGHT	COAXIAL CABLE MARK	COAXIAL CABLE
A-I	I	ALLEN TELECOM DB980H90E (63"x 6.3"x 2")	ВОТТОМ	SEE NOTE I.	SEE NOTE 3.	SEE NOTE 2.	C-I	SEE NOTE 4.
A-2	l	-FUTURE-						
A-3	I	ALLEN TELECOM DB980H90E (63"x 6.3"x 2")	воттом	SEE NOTE I.	SEE NOTE 3.	SEE NOTE 2.	C-3	SEE NOTE 4.
A-4	2	ALLEN TELECOM DB980H90E (63"x 6.3"x 2")	воттом	SEE NOTE I.	SEE NOTE 3.	SEE NOTE 2.	C-4	SEE NOTE 4.
A-5	2	-FUTURE-					MANAGEM SANTAGE	
A-6	2	ALLEN TELECOM DB980H90E (63"x 6.3"x 2")	ВОТТОМ	SEE NOTE I.	SEE NOTE 3.	SEE NOTE 2.	C-6	SEE NOTE 4.
A-7	3	ALLEN TELECOM DB980H90E (63"x 6.3"x 2")	воттом	SEE NOTE I.	SEE NOTE 3.	SEE NOTE 2.	C-7	SEE NOTE 4.
A-8	3	-FUTURE-						
A-9	3	ALLEN TELECOM DB980H90E (63"x 6.3"x 2")	воттом	SEE NOTE I.	SEE NOTE 3.	SEE NOTE 2.	C-9	SEE NOTE 4.

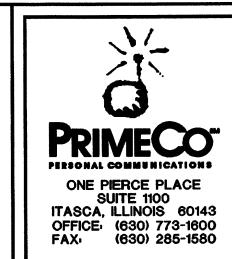
COAX CAE	COAX CABLE CHART					
COAX CABLE LENGTH	CABLE TYPE AND DIAMETER					
I. LESS THAN 65'	HELIAX 1/8"Ф LDF5-50A					
2. 65' TO 130'	HELIAX I 1/4"¢ LDF6-50					
3. 30' TO 225'	HELIAX I 5/8"Ф LDF7-50A					
4. MORE THAN 225'	HELIAX 2 1/4"¢ LDF12-50					

BLE CHART	NOTES
CABLE TYPE AND DIAMETER	I. ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWNTILT FOR EACH ANTENNA WITH RF ENGINEER.
HELIAX 7/8"\$ LDF5-50A HELIAX I 1/4"\$ LDF6-50	2. ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION O.O'. ANTENNA HEIGHTS ARE SHOWN ON TOWER ELEVATION SHEET Z-2
HELIAX I 5/8"Φ LDF7-50A	3. ANTENNA AZIMUTHS SHOWN ON SITE PLAN. SHEET Z-I

5. CHECK WITH RF ENGINEER FOR LATEST ANTENNA TYPE & AZIMUTH.

4. SEE COAX CABLE CHART AT LEFT FOR CABLE DIAMETERS.

6. CONTRACTOR SHALL VERIFY ANTENNA TYPE AND AZIMUTH WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.



APPROVALS		
LANDLORD	-	
LEASING	_	
R.F	_	
ZONING	_	
CONSTRUCTION	-1	
BSIE	_	
FIXNET	_	
STANDARDS	-	

PROJECT NO:	T97203
DRAWN BY:	CDG

CHE	ECKED BY	r KMM
 		
 		
 		
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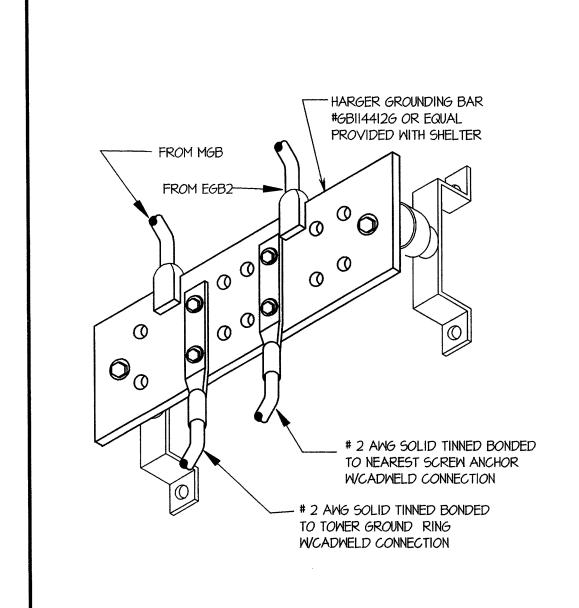
CGB 3613-14 N. CENTRAL DECATUR

1595 CALHOUN STREET DECATUR, ILLINOIS

SHEET

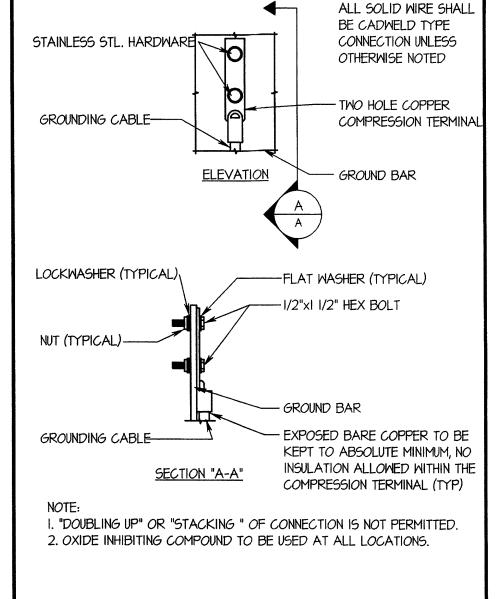
ELEVATIONS, AND ANTENNA SCHEDULE

E-3



TEST GROUND BAR (TGB)

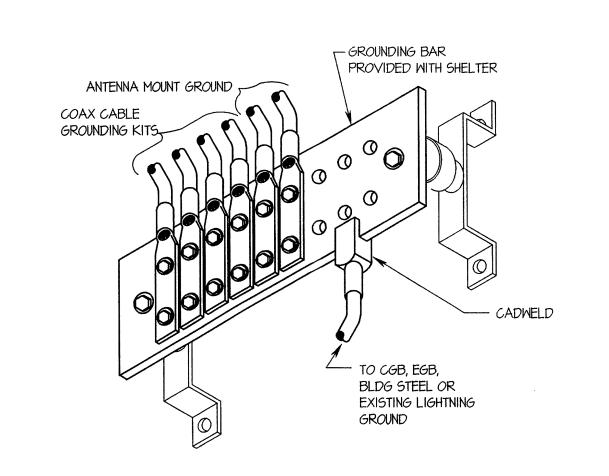
SCALE: N.T.S.



TYPICAL GROUND BAR CONNECTIONS DETAIL

SCALE: N.T.S.

E-3



COLLECTOR GROUND BAR (CGB) 5