



VA-17-005 approved the CMRS facility within the RR-0.5 zoning district. The recording of the tower structural agreement and collateral are required prior to building permit authorization.

NEW SITE

DRAWING INDEX

TITLE SHEET & PROJECT DATA

T-MOBILE SPECIFICATIONS

LAND SURVEY

LAND SURVEY

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GROUNDING DETAILS

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GROUNDING DETAILS

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PROPOSED TOWER ELEVATION

ANTENNA LAYOUT & LOADING CHART

EQUIPMENT & MOUNTING DETAILS

EQUIPMENT LAYOUT & DETAILS

EQUIPMENT & MOUNTING DETAILS

SHEET TITLE

T-MOBILE SITE NAME: **WOODMEN ELEMENTARY**

VERTICAL BRIDGE SITE NAME: WOODMEN HILLS ELEMENTARY

SHEET NO:

T-1

LS1

LS2

A-2

A-3

A-5

A-6

A-7

A-8

A-9

A-10

A-11

E-1

E-2

E-3

E-4

E-5

G-2

G-3

G-4

G-5

T-MOBILE SITE NUMBER: DN04333A

VERTICAL BRIDGE SITE NUMBER: US-CO-5052

SITE ADDRESS: 12119 McCLURE ROAD **FALCON, CO 80831**

MONOPOLE SITE TYPE:

750 Park of Commerce Drive Suite 200 Boca Raton, FL 33487 Office # (561) 948-6367

the solutions are endless 7301 Federal Blvd. Suite 301

Fax # (303) 242-8636

REV

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THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF T-MOBILE AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF T-MOBILE.

3				
3	REVISIONS:	1		1
3	DESCRIPTION	DATE	BY	REV
3				
3				
	REVISED/ISSUED FOR CONSTRUCTION	09/12/17	DDB	3
	REVISED/ISSUED FOR CONSTRUCTION	05/25/17	DDB	2
3	REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
3	ISSUED FOR CONSTRUCTION	9/19/16	JLM	0
3				

WOODMEN ELEMENTARY

T-MOBILE SITE #:

DN04333A

■ VERTICAL BRIDGE SITE #: ■

US-CO-5052

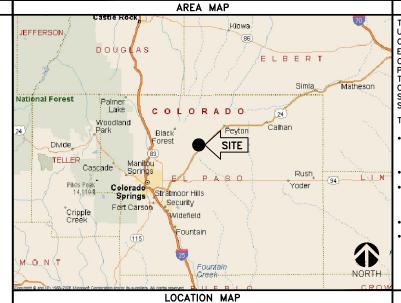
SITE ADDRESS:

12119 McCLURE ROAD FALCON, CO 80831

SHEET DESCRIPTION: =

TITLE SHEET & PROJECT DATA

T-1



THESE PLANS HAVE BEEN DEVELOPED FOR THE INSTALLATION OF AN UNMANNED TELECOMMUNICATION & PUBLIC UTILITY FACILITY, CONSISTING OF THE PLACEMENT OF A 90' MONOPOLE TOWER, SPACE FOR CARRIER EQUIPMENT & A UTILITY RACK WITHIN A FENCED COMPOUND (NO WATER OR SEWER IS REQUIRED), IN ACCORDANCE WITH THE SCOPE OF WORK PROVIDED BY VERTICAL BRIDGE & T-MOBILE. INFINIGY HAS INCORPORATED THIS SCOPE OF WORK IN THE PLANS. THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS ACCOMPANIED BY A PASSING STRUCTURAL STABILITY ANALYSIS PREPARED BY A LICENSED STRUCTURAL ENGINEER. STRUCTURAL ANALYSIS MUST INCLUDE BOTH TOWER AND MOUNT.

PROJECT DESCRIPTION

F-MOBILE PROPOSES TO INSTALL THE FOLLOWING:

- INSTALL (1) NEW ANTENNA MOUNT, (2) NEW COVPs, (3) NEW FRBG'S & (3) NEW T-MOBILE PANEL ANTENNAS AT ANTENNA MOUNT LEVEL
- INSTALL (2) NEW HI-CAP HYBRID CABLES
- INSTALL (1) NEW DELTA SITE SUPPORT CABINET, (1) NEW STACKED SLEEVE & (2) NEW COVPs ON NEW 10'x12' STEEL EQUIPMENT PLATFORM WITHIN 10'x20' LEASE AREA
- INSTALL (1) NEW GPS UNIT WITH (1) NEW 1/2" COAX CABLE
- INSTALL NEW ICE BRIDGE

	APPLICABLE CODES			
	ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALL IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WOR NOT CONFORMING TO THESE CODES.			
Tibbs D.	1. INTERNATIONAL BUILDING CODE (2009 IBC)			

- TIA-EIA-222-G OR LATEST EDITION
 NFPA 780 LIGHTNING PROTECTION CODE
 2014 NATIONAL ELECTRIC CODE OR LATEST EDITION
 ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES,
 MOST RECENT EDITIONS
 CO BUILDING COST
- CO BUILDING CODE
- LOCAL BUILDING CODE 8. CITY/COUNTY ORDINANCES

Mahan Rd	Saddleman.Rd	
Turney_Rd	The s	Those Red Theon Red
Ledoux Rd	SITE	
Bullet Red	Tomokijo Rig	The Columbia Rd Co
	Q ^{to}	NORTH.

Know what's below. Call before you dig.

Approved

By:Craig Dossey, Executive Director Date: 02/27/2018

El Paso County Planning & Community Developmen

SITE INFORMATION

VERTICAL BRIDGE 750 PARK OF COMMERCE DRIVE, STE 200

APPLICANT:

2323 DELGANY STREET

DENVER, CO 80216

JOHN WABISZCZEWICZ (303) 313-6930

BOCA RATON, FL 33478

LATITUDE (NAD83):

LONGITUDE (NAD83):

ZONING JURISDICTION:

VERTICAL BRIDGE PM:

TOWER OWNER:

MATT GRUGAN

(678) 488-1866

38° 57' 04.91" N 38.951364°

104° 35' 57.47" W -104.599297°

EL PASO COUNTY

POWER COMPANY:

TELCO PROVIDER:

CENTURYLINK

(303) 343-0861

T-MOBILE CM:

MOUNTAIN VIEW ELECTRIC (719) 775-2861

COUNTY:

EL PASO

T-MOBILE

CONTACT:

WORK INCLUDED

- INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, PLANT SERVICES AND ADMINISTRATIVE TACKS REQUIRED TO COMPLETE AND MAKE OPERABLE THE ELECTRICAL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- A. PREPARE AND SUBMIT SHOP DRAWINGS, DIAGRAMS AND ILLUSTRATIONS.
- B. PROCURE ALL NECESSARY PERMITS AND APPROVALS AND PAY ALL REQUIRED FEES AND CHARGES IN CONNECTION WITH
- C. SUBMIT AS-BUILT DRAWINGS, OPERATING AND MAINTENANCE
- INSTRUCTIONS AND MANUALS.

 D. EXECUTE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING OF EXISTING OR NEWLY INSTALLED CONSTRUCTION REQUIRED FOR THE WORK OF THIS CONTRACT. FOR SLAB PENETRATIONS THROUGH POST TENSION SLABS, X-RAY EXACT AREA OF PENETRATION PRIOR TO PERFORMING WORK. COORDINATE ALL X-RAY WORK WITH BUILDING ENGINEER.
- PROVIDE HANGERS, SUPPORTS, FOUNDATIONS, STRUCTURAL FRAMING SUPPORTS. AND BASES FOR CONDUIT AND EQUIPMENT PROVIDED OR INSTALLED UNDER THE WORK OF HIS CONTRACT. PROVIDE COUNTER FLASHING, SLEEVES AND SEALS FOR FLOOR AND WALL PENETRATIONS
- F. MAINTAIN ALL EXISTING ELECTRICAL SERVICES IN THE BUILDING AREAS NOT AFFECTED BY THE ALTERATION DURING THE PROGRESS OF THE WORK INCLUDING PROVIDING ALL TEMPORARY JUMPERS, CONDUITS, CAPS, PROTECTIVE DEVICES, CONNECTIONS AND EQUIPMENT REQUIRED. PROVIDE TEMPORARY LIGHT AND POWER FOR CONSTRUCTION
- 2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY
 RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE VINGS AND IN THE SPECIFICATIONS. IF AN ITEM OF WORK IS INDICATED IN THE DRAWINGS, IT IS CONSIDERED SUFFICIENT INCLUSION IN THE CONTRACT. FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION WHETHER OR NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS.

GENERAL REQUIREMENTS

- PROVIDE ALL WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL AND STATE ELECTRICAL
- 2. THE ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF
- 3. LOAD CALCULATIONS ARE BASED ON EXISTING BUILDING INFORMATION/DRAWINGS PROVIDED TO ENGINEERING.
 CONTRACTOR IS TO VERIFY ALL EXISTING RATINGS AND LOADS PRIOR TO PURCHASING OF SPECIFIED EQUIPMENT FOR COMPLIANCE TO NEC. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES AND REQUEST FURTHER DIRECTION BY FNGINFFR.
- . EXISTING BUILDING EQUIPMENT IS NOTED ON THE DRAWINGS . Existing Building Equipment is noted on the Drawings.
 New Or Relocated Equipment is Shown with Solid Lines.
 Future Equipment (not in this Contract) is depicted with
 Shaded Lines. Request Clarification of Drawings or of
 Specifications Prior to Pricing or Installation.
- A. AFTER CAREFULLY STUDYING THE DRAWINGS AND SPECIFICATIONS, AND BEFORE SUBMITTING THE PROPOSAL, MAKE A MANDATORY SITE VISIT TO ASCERTAIN CONDITIONS OF THE SITE, AND THE NATURE AND EXACT QUANTITY OF WORK TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO NOTIFY THE OWNER, IN WRITING, OF ANY DISCREPANCIES THAT MAY HAVE BEEN NOTED BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS AND
- B VERIFY ALL MEASUREMENTS AT THE SITE AND BE RESPONSIBLE FOR CORRECTNESS OF SAME.

PROPER FUNCTIONING OF THE WORK.

- 6. QUALITY, WORKMANSHIP, MATERIALS AND SAFETY MANUFACTURER BY THOSE REGULARLY ENGAGED IN THE PRODUCTION AND MANUFACTURE OF SPECIFIED MATERIALS AND EQUIPMENT. WHERE UL, OR OTHER AGENCY, HAS ESTABLISHED STANDARDS FOR MATERIALS, PROVIDE MATERIALS WHICH ARE LISTED AND LABELED ACCORDINGLY. THE COMMERCIALLY STANDARD ITEMS OF EQUIPMENT AND THE SPECIFIC NAMES MENTIONED HEREIN ARE INTENDED FOR THE
- WORK SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE REQUIRED FOR THE WORK, INSTALL MATERIALS AND EQUIPMENT TO PRESENT A NEAT APPEARANCE WHEN COMPLETED AND IN ACCORDANCE WITH THE APPROVED RECOMMENDATIONS OF THE MANUFACTURER AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- PROVIDE LABOR, MATERIALS, APPARATUS AND APPLIANCES ESSENTIAL TO THE FUNCTIONING OF THE SYSTEMS DESCRIBED OR INDICATED HEREIN, OR WHICH MAY BE REASONABLY IMPLIED AS ESSENTIAL WHENEVER MENTIONED IN THE CONTRACT DOCUMENT OR NOT
- D. MAKE WRITTEN REQUESTS FOR SUPPLEMENTARY INSTRUCTIONS TO ARCHITECT/ENGINEER IN CASE OF DOUBT AS TO WORK INTENDED OR IN EVENT OF NEED FOR EXPLANATION THEREOF.
- NOCE AND MATERIAL REQUIREMENTS SCHEDULED OR SPECIFIED ARE MINIMUM STANDARD ACCEPTABLE. THE RIGHT TO JUDGE THE QUALITY OF EQUIPMENT THAT DEVIATES FROM THE CONTRACT DOCUMENT REMAINS SOLELY WITH ARCHITECT/ENGINEER. CONTRACT DOCUMENT OR NOT.

ACQUITE

1. GUARANTEE MATERIALS, PARTS AND LABOR FOR WORK FOR ONE
YEAR FROM THE DATE OF ISSUANCE OF OCCUPANCY PERMIT. DURING THAT PERIOD, MAKE GOOD FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIALS OR WORKMANSHIP WITH NO ADDITIONAL COMPENSATION AND AS

CLEANING

- 1. REMOVE ALL CONSTRUCTION DEBRIS RESULTING FROM THE WORK
- 2. CLEAN EQUIPMENT AND SYSTEMS FOLLOWING THE COMPLETION OF THE PROJECT TO THE SATISFACTION OF THE ENGINEER. COORDINATION AND SUPERVISION
- . CAREFULLY LAY OUT ALL WORK IN ADVANCE TO AVOID NNECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES. REPAIR THE WORK IN AN APPROVED MANNER BY SKILLED MECHANICS AT NO ADDITIONAL COST TO THE OWNER. RENDER FULL COOPERATION TO OTHER TRADES WHERE WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO WORK OF OTHER TRADES. ASSIST IN WORKING OUT SPACE CONDITIONS. IF WORK IS INSTALLED BEFORE COORDINATION WITH OTHER TRADES OR CAUSES INTERFERENCE, MAKE CHANGES NECESSARY TO CORRECT CONDITIONS WITHOUT EXTRA CHARGE

SUBMITTALS.

- A. UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER
- 2. SERVICE MANUALS: A. UPON COMPLETION OF THE WORK, FULLY INSTRUCT T-MOBILE AS TO THE OPERATION AND MAINTENANCE OF ALL MATERIAL.
- EQUIPMENT AND SYSTEMS.

 B. PROVIDE 3 COMPLETE BOUND SETS OF INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL SYSTEMS AND EQUIPMENT.

CUTTING AND PATCHING

- THING AND FAIGHING

 I. PROVIDE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING

 REQUIRED TO COMPLETE THE WORK.

 2. OBTAIN OWNER APPROVAL PRIOR TO CUTTING THROUGH FLOORS
- OR WALLS FOR PIPING OR CONDUIT

TESTS, INSPECTION AND APPROVAL

- . BEFORE ENERGIZING ANY ELECTRICAL INSTALLATION, INSPECT EACH UNIT IN DETAIL. TIGHTEN ALL BOLTS AND CONNECTIONS TORQUE—TIGHTEN WHERE REQUIRED) AND DETERMINE THAT ALL COMPONENTS ARE ALIGNED, AND THE EQUIPMENT IS IN SAFE, OPERATIONAL CONDITION
- 2. PROVIDE THE COMPLETE ELECTRICAL SYSTEM FREE OF GROUND FAULTS AND SHORT CIRCUITS SUCH THAT THE SYSTEM WILL OPERATE SATISFACTORILY UNDER FULL LOAD CONDITIONS, WITHOUT EXCESSIVE HEATING AT ANY POINT IN THE SYSTEM.

SPECIAL REQUIREMENTS

- DO NOT LEAVE ANY WORK INCOMPLETE NOR ANY HAZARDOUS
 SITUATIONS CREATED WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. DO NOT INTERFERE WITH OR CUTOFF ANY OF THE EXISTING SERVICES
- WITHOUT THE OWNER'S WRITTEN PERMISSION.

 2. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING BUILDING UTILITIES AND SERVICE SYSTEMS, INCLUDING FEEDER OR BRANCH CIRCUITING SUPPLYING EXISTING FACILITIES, CONFER WITH THE OWNER AND ARRANGE THE PERIOD OF INTERRUPTION FOR A TIME MUTUALLY AGREED UPON. SHUTDOWN NOTE: SCHEDULE AND NOTIFY OWNER 48 HOURS
 PRIOR TO SHUTDOWN. ALL SHUTDOWN WORK TO BE
 SCHEDULED AT A TIME CONVENIENT TO OWNER.

GROUNDING

- . ROUTE ALL GROUNDING CONDUCTORS AS SHOWN ON CONDUIT/GROUNDING RISER.
- 2. ROUTE 500 KCMIL CU. THIN CONDUCTOR FROM THE MGB LOCATION TO BUILDING STEEL. VERIFY BUILDING STEEL IS EFFECTIVELY GROUNDED PER NEC TO THE MAIN SERVICE GROUNDING ELECTRODE CONDUCTOR (GEC).
- 3. MAKE ALL GROUND CONNECTIONS FROM MGB TO ELECTRICAL EQUIPMENT WITH 2 HOLE, CRIMP TYPE, BURNDY COMPRESSION TERMINATIONS SIZED AS REQUIRED
- 4. USE 1 HOLE, CRIMP TYPE, BURNDY COMPRESSIONS TERMINATIONS, SIZED AS REQUIRED, AT EQUIPMENT GROUND
- 5. HIRE AN INDEPENDENT LAB TO PERFORM THE SPECIFIED OHMS TESTING. PROVIDE 4 SETS OF THE CERTIFIED DOCUMENTS TO THE OWNER FOR VERIFICATION PRIOR TO THE PROJECT

- ALL WIRING TO BE INSTALLED IN CONDUIT SYSTEMS IN
- ACCORDANCE WITH THE FOLLOWING:
 A. EXTERIOR FEEDERS AND CONTROL, WHERE UNDERGROUND, TO
- B. EXTERIOR, ABOVE GROUND POWER CONDUITS TO BE GALVANIZED RIGID STEEL (RGS).

 C. ALL TELECOMMUNICATION CONDUITS, INTERIOR/EXTERIOR, TO

- E. ALL TELECOM CONDUITS AND PULL BOXES INSTALLED ON THIS PROJECT TO BE LABELED "T-MOBILE". OWNER WILL PROVIDE LABELS FOR CONTRACTOR TO INSTALL.
- F. INTERIOR FEEDERS TO BE INSTALLED IN E.M.T. WITH STEEL COMPRESSION FITTINGS.
 G. MINIMUM SIZE CONDUIT TO BE¾" TRADE SIZE
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS. H. FINAL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT TO BE INSTALLED IN LIQUID-TIGHT FLEXIBLE METAL CONDUIT.
- AREAS OR DRYWALL PARTITIONS, UNLESS OTHERWISE NOTED. J. THE ROUTING OF CONDUITS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC. BEFORE INSTALLING ANY WORK, EXAMINE THE WORKING LAYOUTS AND SHOP DRAWINGS OF THE OTHER TRADES TO DETERMINE THE EXACT LOCATIONS AND
- K ALL EXTERIOR MOUNTING HARDWARE TO BE GALVANIZED STEEL. COORDINATE WITH BUILDING ENGINEER PRIOR TO

- L. PENETRATIONS OF WALLS, FLOORS AND ROOFS, FOR THE PASSAGE OF FLECTRICAL RACEWAYS, TO BE PROPERLY SEALED AFTER INSTALLATION OF RACEWAYS SO AS TO MAINTAIN THE STRUCTURAL OR WATERPROOF INTEGRITY OF THE WALL, FLOOR OR ROOF SYSTEM TO BE PENETRATED. SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE OR SMOKE PARTITIONS TO MAINTAIN PROPER RATING OF WALL OR
- M. PROVIDE ALL CONDUIT ENDS WITH INSULATED METALLIC
- GROUNDING BUSHINGS.
 N. CONDUIT TO BE SUPPORTED AT MAXIMUM DISTANCE OF 8'-0", OR AS REQUIRED BY NEC, IN HORIZONTAL AND VERTICAL DIRECTIONS.
- O. PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR ALL JUNCTION BOXES AND/OR OUTLET BOXES NOT USED IN EXPOSED AREAS. PROVIDE ALL OTHER UNUSED BOXES WITH STANDARD STEEL COVER PLATES.
- P. WHERE APPLICABLE, PROVIDE ROOFTOP CONDUIT SUPPORT SYSTEM, CONFORMING TO ROOFTOP WARRANTY REQUIREMENTS,

WIRES AND CABLES

- CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIER AND VENDOR FOR EXACT FOUIPMENT OVER-CURRENT PROTECTION VOLTAGE, WIRE SIZE AND PLUG CONFIGURATION, IF APPLICABLE,
- 2. ALL EQUIPMENT/DEVICES TO BE PROVIDED WITH INSULATED GROUND CONDUCTOR.
 3. ALL WIRE AND CABLE TO BE 600VOLT, COPPER, WITH THWN/
- THHN INSULATION, EXCEPT AS NOTED.
- 4. WIRE FOR POWER AND LIGHTING WILL NOT BE LESS THAN NO. 12AWG. ALL WIRE NO. 8 AND LARGER TO BE STRANDED.
 5. CONTROL WIRING IS NOT TO BE LESS THAN NO. 14AWG,
- FLEXIBLE IN SINGLE CONDUCTORS OR MULTI-CONDUCTOR CABLES. CONTROL WIRING WILL CONSIST OF MULTI-CONDUCTOR CABLES WHEREVER POSSIBLE. CABLES TO BE PROVIDED WITH AN OVERALL FLAME-RETARDANT, EXTRUDED JACKET AND RATED
- FOR PLENUM USE. ALL CONTROL WIRE TO BE 600VOLT RATED.
 WIRE PREVIOUSLY PULLED INTO CONDUIT IS CONSIDERED USED AND IS NOT TO BE RE-PULLED.
 7. HOME RUNS AND BRANCH CIRCUIT WIRING FOR 20A, 120V
- LENGTH (FT.) HOME RUN WIRE SIZE 0 TO 50 NO. 12 101 TO 150
- VOLTAGE DROP IS NOT TO EXCEED 3%. MAKE ALL CONNECTIONS WITH UL APPROVED, SOLDERLESS, PRESSURE TYPE INSULATED CONNECTORS: SCOTCHLOK OR AND APPROVED EQUAL. WIRING DEVICES
- 1. ALL RECEPTACLES INSTALLED IN THIS PROJECT TO BE GROUNDING TYPE, WITH GROUNDING PIN SLOT CONNECTED TO DEVICE GROUND SCREW FOR GROUND WIRE CONNECTION.
- DISCONNECT SWITCHES AND FUSES 1. DISCONNECT SWITCHES TO BE VOLTAGE—RATED TO SUIT THE CHARACTERISTICS OF THE SYSTEM FROM WHICH THEY ARE
- 2. PROVIDE HEAVY—DUTY, METAL—ENCLOSED, EXTERNALLY—OPERATED DISCONNECT SWITCHES, FUSED OR UNFUSED, OF SUCH TYPE
 AND SIZE AS REQUIRED TO PROPERLY PROTECT OR DISCONNECT THE LOAD FOR WHICH THEY ARE INTENDED.
- 3. PROVIDE NEMA 1 DISCONNECT SWITCHES FOR INTERIOR INSTALLATION, NEMA 3R FOR EXTERIOR INSTALLATION.
 4. DISCONNECT SWITCHES TO BE MANUFACTURED BY:
- A. GENERAL ELECTRIC COMPANY
- 5. PROVIDE RK-1 TYPE FUSES, UNLESS NOTED OTHERWISE.
- 1. INSTALL DISCONNECT SWITCHES WHERE INDICATED ON
- 2. INSTALL FUSES IN FUSIBLE DISCONNECT SWITCHES, FUSES MUST MATCH IN TYPE AND RATING.

 3. FUSES TO BE MOUNTED SO THAT THE LABELS SHOWING THEIR
- RATINGS CAN BE READ WITHOUT REQUIRING FUSE REMOVAL.

 4. FURNISH AND DEPOSIT SPARE FUSES AT THE JOB SITE AS
- A. THREE SPARES FOR EACH TYPE AND SIZE, IN EXCESS OF 60A, USED FOR INITIAL FUSING.
 B. TEN PERCENT SPARES FOR EACH TYPE AND SIZE, UP TO
- AND INCLUDING 60A, USED FOR INITIAL FUSING. IN NO CASE WILL LESS THAN THREE FUSES OF ONE PARTICULAR TYPE AND SIZE BE FURNISHED.

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATIONS
 OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY
 MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR
 COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE
 BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON
 THE CONTRACTOR OF THE PROMETER OF THE PROME THE CONSTRUCTION DRAWINGS, ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.

 2. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE
- ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING SUCH BIDDER MIGHT HAVE
- FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.
 3. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED. OR ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

CONTRACTS AND WARRANTIES

- 1. CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT
- OF CONTRACTOR LICENSES AND BONDS.

 2. SEE MASTER CONTRACTION SERVICES AGREEMENT FOR ADDITIONAL DETAILS.

1. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION
AND IN A MANNER THAT DOES NOT NECESSARILY OBSTRUCT THE FLOW OF OTHER WORK. ANY STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

CL FANUP

- 1. THE CONTRACTORS SHALL, AT ALL TIMES, KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR EMPLOYEES AT WORK AND AT THE COMPLETION OF THE WORK. THEY SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL THEIR TOOLS, SCAFFOLDING AND SURPLUS MATERIALS AND SHALL LEAVE THEIR WORK CLEAN AND READY TO USE.
- A. VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER.
- B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
- C. IF NECESSARY, TO ACHIEVE A UNIFORM DEGREE OF CLEANLINESS, HOSE DOWN THE EXTERIOR OF THE STRUCTURE.
- A. VISUALLY INSPECT INTERIOR SURFACE AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER FROM WALLS, FLOOR, AND CEILING.
- B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
 C. REMOVE PAINT DROPPINGS, SPOTS, STAINS, AND DIRT FROM
- FINISHED SURFACES.

CHANGE ORDER PROCEDURE:

1. REFER TO SECTION 17 OF SIGNED MCSA; SEE PROFESSIONAL SERVICE AGREEMENT FOR MCSA.

- RELATED DOCUMENTS AND COORDINATION

 1. GENERAL CARPENTRY, ELECTRICAL AND ANTENNA DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, THE CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION TO BE THE RESPONSIBILITY OF THE CONTRACTOR
- SHOP DRAWINGS

 1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND LISTED IN THESE SPECIFICATIONS TO THE OWNER FOR APPROVAL.
- 2. ALL SHOP DRAWINGS SHALL BE REVIEWED, CHECKED AND CORRECTED BY CONTRACTOR PRIOR TO SUBMITTAL TO THE

PRODUCTS AND SUBSTITUTIONS

- 1. SUBMIT 3 COPIES OF EACH REQUEST FOR SUBSTITUTION. IN EACH REQUEST, IDENTIFY THE PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION INCLUDE RELATED SPECIFICATION SECTION AND DRAWING IUMBERS AND COMPLETE DOCUMENTATION SHOWING COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS
- SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS. PRODUCTS AND MATERIALS BEING INSTALLED. THE CONTRACTOR SHALL, IF DEEMED NECESSARY BY THE OWNER, SUBMIT ACTUAL SAMPLES TO THE OWNER FOR APPROVAL IN LIEU OF CUT

1. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL,
STATE AND FEDERAL REGULATIONS. THESE SHALL INCLUDE, BUT NOT BE LIMITED TO THE APPLICABLE CODES SET FORTH BY THE LOCAL GOVERNING BODY, SEE "CODE COMPLIANCE" T-1.

- 1. BEFORE THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THIS PROJECT MANAGER WILL DEVELOP A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO
- THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.

 2. SUBMIT A BAR TYPE PROGRESS CHART, NOT MORE THAN DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE, INDICATING A TIME BAR FOR FACH MAJOR CATEGORY OR UNIT OF WORK TO BE PERFORMED AT THE SITE, PROPERLY SEQUENCED AND COORDINATED WITH OTHER FLEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE WORK
- PRIOR TO COMMENCING CONSTRUCTION, THE OWNER SHALL SCHEDULE AN ON-SITE MEETING WITH ALL MAJOR PARTIES. THIS WOULD INCLUDE, BUT NOT LIMITED TO, THE OWNER, PROJECT MANAGER, CONTRACTOR, LAND OWNER REPRESENTATIVE, LOCAL TELEPHONE COMPANY, TOWER ERECTION FOREMAN (IF
- 4 CONTRACTOR SHALL BE FOLIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR BEEPER. THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE NER, NOR WILL WIRELESS SERVICE BE ARRANGED
- 5. DURING CONSTRUCTION, CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. CONTRACTOR WILL COMPLY WITH ALL WPCS SAFETY REQUIREMENTS IN THEIR AGREEMENT.
- 6. PROVIDE WRITTEN DAILY UPDATES ON SITE PROGRESS TO THE 7. COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND
- EQUIPMENT IS REQUIRED PRIOR TO START OF CONSTRUCTION.

 8. NOTIFY THE OWNER/PROJECT MANAGER IN WRITING NO LESS
 THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.

- 1. CONTRACTOR, AT THEIR OWN EXPENSE, SHALL CARRY AND MAINTAIN, FOR THE DURATION OF THE PROJECT, ALL INSURANCE, AS REQUIRED AND LISTED, AND SHALL NOT COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE STATING ALL COVERAGES TO THE OWNER. REFER TO THE MASTER AGREEMENT FOR REQUIRED INSURANCE LIMITS.
- 3. CONTRACTOR MUST PROVIDE PROOF OF INSURANCE.

GENERAL NOTES:

AGL

CAB CLG

CONC

CONT

EQUIP

EGB

GALV

GRND

MECH

MGR

NTS OC OPP

(P) PCS PPC SF

SIM SS

STL TOC TOM

VIF

UON

DIA OR

APPROX

INTENT 1. THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS ACCOMPANYING THEM DESCRIBE THE WORK

FOR CONSTRUCTION. 2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED, OR SPECIFIED ON ONE AND NOT THE OTHER. IT SHALL BE DONE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED

TO BE DONE AND THE MATERIALS TO BE FURNISHED

3. THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.

- 4. THE PURPOSE OF THE SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE AND QUALITY OF MATERIALS REQUIRED TO COMPLETE THE
- 5. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.

ABBREVIATIONS

ADJUSTARI F

APPROXIMATE

CABINET

CFILING

CONCRETE

DIAMETER

DRAWING

ELECTRICAL

EQUIPMENT

EQUIPMENT GROUND BAR

GENERAL CONTRACTOR

ELEVATION

EACH

FOUAL

FXISTING

EXTERIOR

GAUGE

GROUND

MAXIMITM

MINIMUM

METAL

MECHANICAL

MICROWAVE DISH

NOT IN CONTRACT

PERSONAL COMMUNICATION SYSTEM

POWER PROTECTION CABINET

NOT TO SCALE

ON CENTER

OPPOSITE

PROPOSED

SHEET

STEEL

TYPICAL

SQUARE FOOT

STAINLESS STEEL

TOP OF CONCRETE

TOP OF MASONRY

VERIFY IN FIFI D

UNLESS OTHERWISE NOTED

WELDED WIRE FABRIC

MASTER GROUND BAR

MANUFACTURER

GALVANIZED

FINISHED FLOOR

CONTINUOUS

ABOVE GROUND LINE

BASE TRANSMISSION STATION

2. THE OWNER SHALL BE NAMED AS AN ADDITIONAL INSURED ON

FROM ZERO TO INFINIGY

Denver, CO 80216

the solutions are endless 7301 Federal Blvd. Suite 301

Westminster, CO 80030 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER 404-052

MI A PARTNER

PLANS PREPARED FOR:

PLANS PREPARED BY:



Suite 200

Boca Raton, FL 33487

Office # (561) 948-6367

NGINEERING LICENSE: RADO LICENS SHER J 47849 SSIONAL ONAL ENGL

DRAWING NOTICE: =

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REVISIONS:			
DESCRIPTION	DATE	BY	REV
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REVISED/ISSUED FOR CONSTRUCTION	05/25/17	DDB	2
REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

VERTICAL BRIDGE SITE NAME: WOODMEN ELEMENTARY

DN04333A

US-CO-5052

T-MOBILE SITE #: =

VERTICAL BRIDGE SITE #:

SITE ADDRESS: =

12119 McCLURE ROAD FALCON, CO 80831

SHEET DESCRIPTION:

Γ-MOBILE SPECIFICATIONS

SP-1

SURVEYOR'S CERTIFICATE

I, Robert Daley, do hereby certify, that on August 2, 2016, a topographic survey was conducted under my supervision using the normal standard of care of Professional Land Surveyors and the map hereon accurately represents said survey, to the best of my

This drawing does not represent a Land Survey, Land Survey Plat, Improvement Land Survey Plat or Improvement Location Certificate and any monuments or boundary lines shown are for information only and are not to be relied on.

This survey relied upon Fidelity National Title Insurance Company Commitment No.: 23253661 for legal descriptions and easements.

This survey does not constitute a title search by this surveyor or Daley Land Surveying, Inc. of the property shown and described

1. Ownership of this tract of land. 2. Rights—of—way, easements and encumbrances recorded or unrecorded affecting this tract of land.

3. Compatibility of this description with those of adjacent tracts of land. Job No. 1606-003



For and on behalf of Daley Land Surveying, Inc. 17011 Lincoln Ave., #361 Parker CO. 80134 303 953 9841 Robert Daley, PLS 35597

BASIS OF BEARINGS:

The bearings shown on this survey are referenced to the easterly line of Tract A, Woodmen Hills Filing 8, along Eastonville Road assumed to bear South 36°42'24" West.

COORDINATE SYSTEM AND DATUM;

Horizontal coordinates are referenced to NAD83, Vertical datum is NAVD88 and originates from the local C.O.R.S. network, utilizing the Geoid12A model.

The utilities which are readily visible upon the ground, such as manholes, power and light poles, inlets, etc. were located by field surveys and shown hereon. Sub-surface utilities, if shown, are the result of field surveys of utility location marks LEGAL DESCRIPTION PARENT TRACT:

Per Commitment No. 23253661 Effective Date: June 30, 2016 at 8:00 am, Fidelity National Title Insurance Company.

The land referred to in Schedule A is situated in the County of El Paso, State of Colorado and is described as follows:

An interest in land, said interest being over a portion of the following described parent parcel:

Tract A, Woodmen Hills Filing No. 8, County of El Paso, State of Colorado.

AND BEING a portion of the same property conveyed to Falcon School District 49, of the County of El Paso and State of Colorado from Falcon Properties and Investments, LLP by Special Warranty Deed dated April 06, 1999 and recorded April 08, 1999 in Instrument No. 099054253.

TOPOGRAPHIC SURVEY VERTICAL BRIDGE SITE No. US-C0-5052 SITUATED IN THE NORTH HALF OF SECTION 6, TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE 6TH P.M.

COUNTY OF EL PASO, STATE OF COLORADO

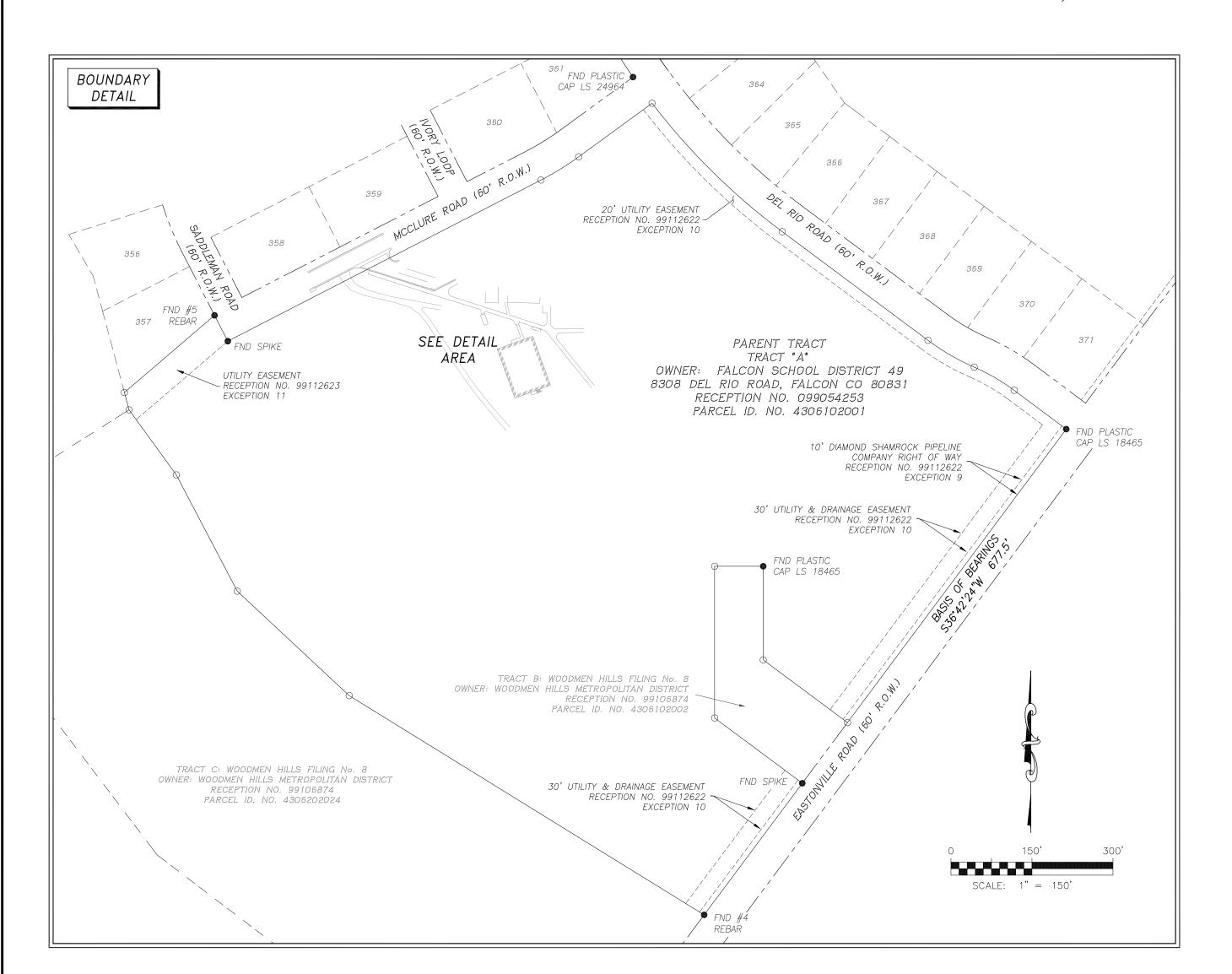
EXCEPTIONS LISTED IN TITLE COMMITMENT:

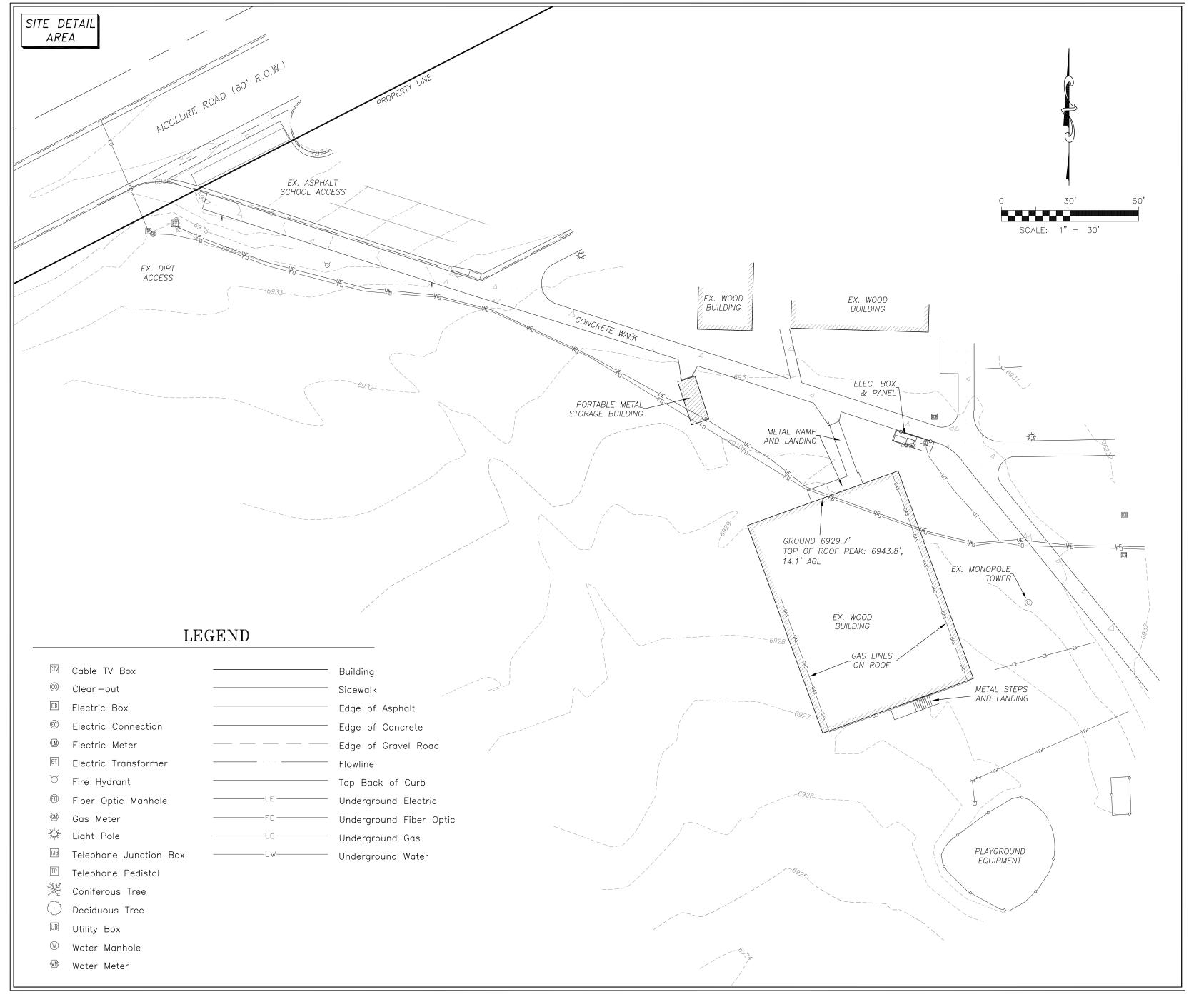
Item 1. Not survey related Not survey related Not survey related Not survey related

Shown hereon, if any Not survey related Not survey related Not survey related Shown hereon

Item 10. Shown hereon Item 11. Shown hereon Item 12. Shown hereon

Item 13. Not survey related Item 14. Not survey related







INFINIGY 8 THE SOLUTIONS ARE ENDLESS 7301 FEDERAL BOULEVARD STE. 300

WESTMINSTER, CO 80030

(303) 219-1178 WWW.INFINIGY.COM

DALEY LAND SURVEYING, INC. 17011 LINCOLN AVE #361 PARKER, CO 80134 Rev: Date: Description: 8/5/16 Survey 8/15/16 Easement/Lease 10/12/17 Address change

PROJECT INFORMATION: WOODMEN HILLS ELEMENTARY SITE ADDRESS: 12119 McCLURE ROAD FALCON, COLORADO 80831 VERTICAL BRIDGE SITE NUMBER: US-CO-5052 APV BY: DRAWN BY: CHK BY:

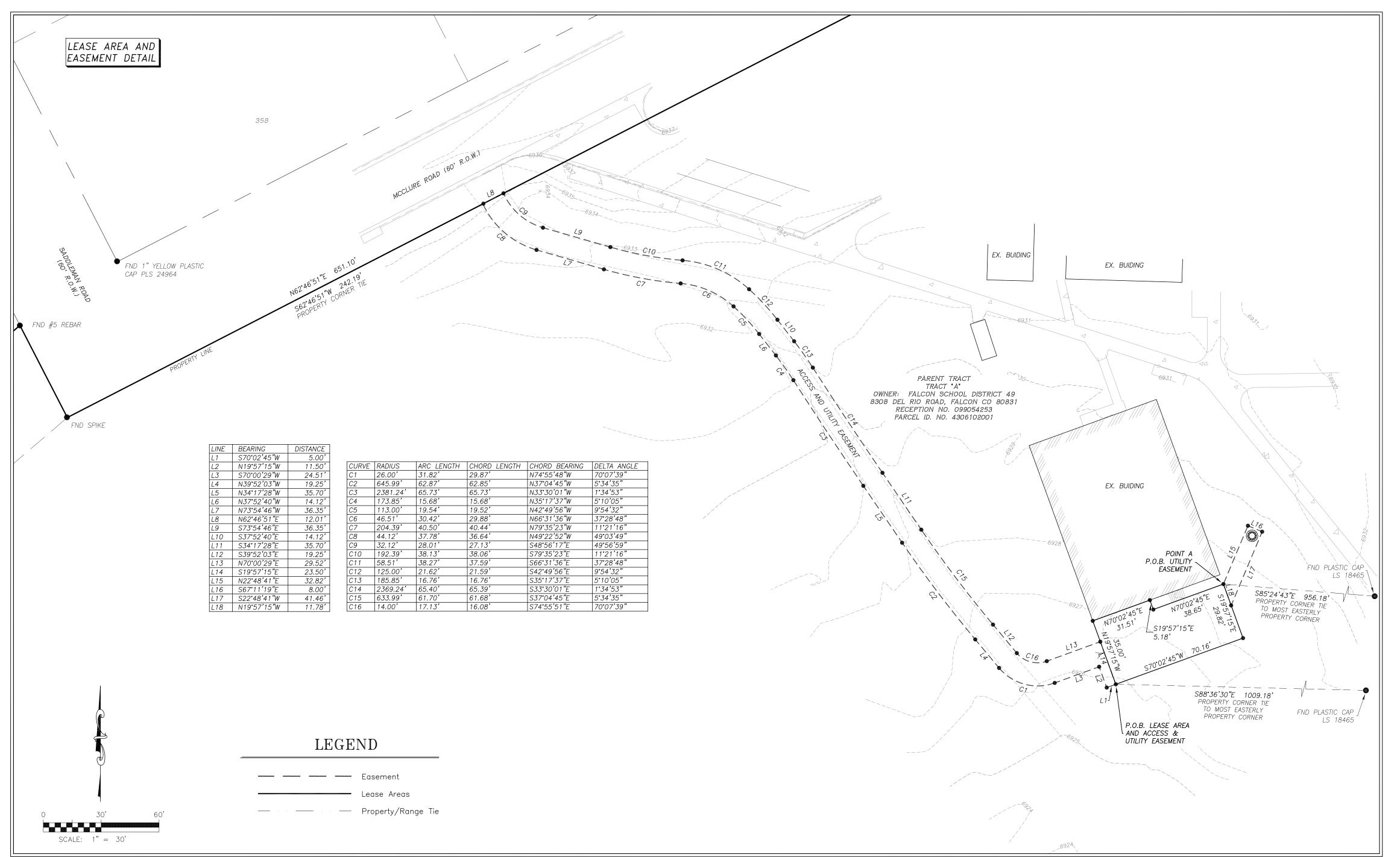
RD

ΑV

RD

LAND SURVEY Sheet Number:

TOPOGRAPHIC SURVEY VERTICAL BRIDGE SITE No. US-C0-5052 SITUATED IN THE NORTH HALF OF SECTION 6, TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE 6TH P.M. COUNTY OF EL PASO, STATE OF COLORADO



ACCESS AND UTILITY EASEMENT - PROPOSED:

A strip of land over and across that parcel of land described at Reception No. 099054253 of the Public Records of El Paso County, being Tract A, Woodmen Hills Filing No. 8, County of El Paso, State of Colorado (Parent Tract), located in the North Half of Section 6, Township 13 South, Range 64 West of the 6th Principal Meridian, County of El Paso, State of Colorado, more particularly described as follows:

For the purposes of this description the bearings are referenced to the easterly line of Tract A, Woodmen Hills Filing 8, along Eastonville Road assumed to bear South 36°42'24" West.

Beginning at a point, also being the Point of Beginning of the hereinafter described Lease Area, whence the most easterly corner of said Parent Tract, also being the most easterly corner of said Tract A, Woodmen Hills Filing 8, bears

South 88°36'30" East, a distance of 1009.18 feet:

THENCE South 70°02'45" West, a distance of 5.00 feet;

THENCE North 19°57'15" West, a distance of 11.50 feet; THENCE South 70°00'29" West, a distance of 24.51 feet;

THENCE along a curve to the right, an arc length of 31.82 feet, said curve having a radius of 26.00 feet, a delta angle of 70°07'39", a chord bearing of North 74°55'48" West, and a chord length of 29.87 feet;

THENCE North 39°52'03" West, a distance of 19.25 feet; THENCE along a curve to the right, an arc length of 62.87 feet, said curve having a radius of 645.99 feet, a delta angle of 05°34'35", a chord bearing of North 37°04'45" West, and a chord length of 62.85 feet;

THENCE North 34°17'28" West, a distance of 35.70 feet; THENCE along a curve to the right, an arc length of 65.73 feet, said curve having a radius of 2381.24 feet, a delta

angle of 01°34'53", a chord bearing of North 33°30'01" West, and a chord length of 65.73 feet; THENCE along a reverse curve to the left, an arc length of 15.68 feet, said curve having a radius of 173.85 feet, a delta angle of 05°10'05", a chord bearing of North 35°17'37" West, and a chord length of 15.68 feet;

THENCE North 37°52'40" West, a distance of 14.12 feet; THENCE along a curve to the left, an arc length of 19.54 feet, said curve having a radius of 113.00 feet, a delta angle of 09°54'32", a chord bearing of North 42°49'56" West, and a chord length of 19.52 feet;

THENCE along a compound curve to the left, an arc length of 30.42 feet, said curve having a radius of 46.51 feet, a delta angle of 37°28'48", a chord bearing of North 66°31'36" West, and a chord length of 29.88 feet; THENCE along a reverse curve to the right, an arc length of 40.50 feet, said curve having a radius of 204.39

feet, a delta angle of 11°21'16", a chord bearing of North 79°35'23" West, and a chord length of 40.44 feet; THENCE North 73°54'46" West, a distance of 36.35 feet; THENCE along a curve to the right, an arc length of 37.78 feet, said curve having a radius of 44.12 feet, a delta

angle of 49°03'49", a chord bearing of North 49°22'52" West, and a chord length of 36.64 feet to the northerly line of said Tract A, whence a northerly property corner of said Parent Tract, also being a corner of said Tract A, Woodmen Hills Filing 8, bears South 62°46'51" West, a distance of 242.19 feet;

THENCE North 62°46'51" East, a distance of 12.01 feet along said northerly line of said Tract A; THENCE along a curve to the left, an arc length of 28.01 feet, said curve having a radius of 32.12 feet, a delta angle of 49°56'59", a chord bearing of South 48°56'17" East, and a chord length of 27.13 feet;

THENCE South 73°54'46" East, a distance of 36.35 feet; THENCE along a curve to the left, an arc length of 38.13 feet, said curve having a radius of 192.39 feet, a delta

angle of 11°21'16", a chord bearing of South 79°35'23" East, and a chord length of 38.06 feet; THENCE along a reverse curve to the right, an arc length of 38.27 feet, said curve having a radius of 58.51 feet, a delta angle of 37°28'48", a chord bearing of South 66°31'36" East, and a chord length of 37.59 feet;

THENCE along a compound curve to the right, an arc length of 21.62 feet, said curve having a radius of 125.00 feet, a delta angle of 09°54'32", a chord bearing of South 42°49'56" East, and a chord length of 21.59 feet; THENCE South 37°52'40" East, a distance of 14.12 feet;

THENCE along a curve to the right, an arc length of 16.76 feet, said curve having a radius of 185.85 feet, a delta angle of 05°10'05", a chord bearing of South 35°17'37" East, and a chord length of 16.76 feet; THENCE along a reverse curve to the left, an arc length of 65.40 feet, said curve having a radius of 2369.24

feet, a delta angle of 01°34'53", a chord bearing of South 33°30'01" East, and a chord length of 65.39 feet; THENCE South 34°17'28" East, a distance of 35.70 feet; THENCE along a curve to the left, an arc length of 61.70 feet, said curve having a radius of 633.99 feet, a delta

angle of 05°34'35", a chord bearing of South 37°04'45" East, and a chord length of 61.68 feet; THENCE South 39°52'03" East, a distance of 19.25 feet;

THENCE along a curve to the left, an arc length of 17.13 feet, said curve having a radius of 14.00 feet, a delta angle of 70°07'39", a chord bearing of South 74°55'51" East, and a chord length of 16.08 feet; THENCE North 70°00'29" East, a distance of 29.52 feet;

THENCE South 19°57'15" East, a distance of 23.50 feet to the Point of Beginning.

Containing 5225 Square Feet, or 0.120 Acres, more or less.

LEASE AREA LEGAL DESCRIPTION - PROPOSED.

A parcel of land within that parcel of land described at Reception No. 099054253 of the Public Records of El Paso County, being Tract A, Woodmen Hills Filing No. 8, County of El Paso, State of Colorado (Parent Tract), located in the North Half of Section 6, Township 13 South, Range 64 West of the 6th Principal Meridian, County of El Paso, State of Colorado, more particularly described as follows:

For the purposes of this description the bearings are referenced to the easterly line of Tract A, Woodmen Hills Filing 8, along Eastonville Road assumed to bear South 36°42'24" West.

Beginning at a point, also being the Point of Beginning of the hereinbefore described Access and Utility Easement, whence the most easterly corner of said Parent Tract, also being the most easterly corner of said Tract A, Woodmen Hills Filing 8, bears South 88°36'30' East a distance of 1009.18 feet;

THENCE North 19°57'15" West, a distance of 35.00 feet to a the exterior of the existing building;

THENCE North 70°02'45" East, a distance of 31.51 feet along said exterior of the exiting building;

THENCE South 19°57'15" East, a distance of 5.18 feet; THENCE North 70°02'45" East, a distance of 38.65 feet to Point A, the Point of Beginning of the hereinafter described Utility Easement, whence the most easterly corner of said Parent Tract bears South 85°24'43" East a distance

THENCE South 19°57'15" East, a distance of 29.82 feet;

THENCE South 70°02'45" East, a distance of 70.16 feet to the Point of Beginning.

Containing 2255 Square Feet or 0.052 Acres more or less.

<u>UTILITY EASEMENT LEGAL DESCRIPTION - PROPOSED:</u>

A parcel of land within that parcel of land described at Reception No. 099054253 of the Public Records of El Paso County, being Tract A, Woodmen Hills Filing No. 8, County of El Paso, State of Colorado (Parent Tract), located in the North Half of Section 6, Township 13 South, Range 64 West of the 6th Principal Meridian, County of El Paso, State of Colorado, more particularly described as follows:

For the purposes of this description the bearings are referenced to the easterly line of Tract A, Woodmen Hills Filing 8, along Eastonville Road assumed to bear South 36°42'24" West.

Beginning at Point A as hereinbefore described, whence the most easterly corner of said Parent Tract, also being the most easterly corner of said Tract A, Woodmen Hills Filing 8, bears South 85°2443" East a distance of 956.18 feet;

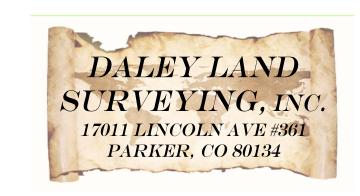
THENCE North 22°48'41" East, a distance of 32.82 feet;

THENCE South 67°11'19" East, a distance of 8.00 feet; THENCE North 22°48'41" West, a distance of 41.46 feet to the easterly line of the hereinbefore described lease area; THENCE North 19°57'15" West, a distance of 11.78 feet along said easterly line to the Point of Beginning;

Containing 297 Square Feet or 0.007 Acres, more or less







Rev:	Date:	Description:	Ву:	
1	8/5/16	Survey	RD	SITE NAME:
2	8/15/16	Easements/Lease	AV	SITE ADDICES
3	10/12/17	Address change	RD	VERTICAL BE

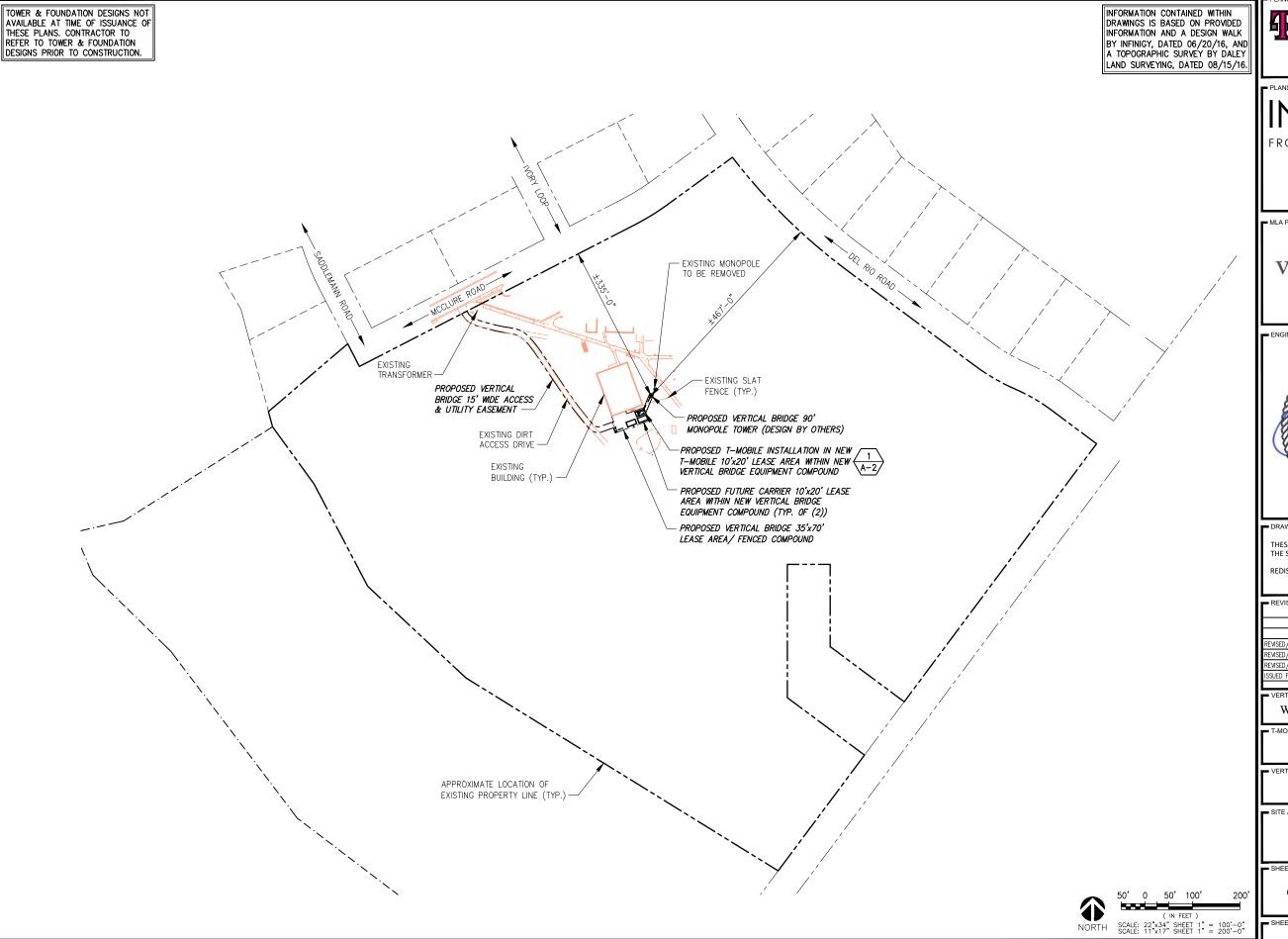
PROJECT INFORMATION:
WOODMEN HILLS ELEMENTARY

SITE ADDRESS: 12119 McCLURE ROAD FALCON, COLORADO 80831 VERTICAL BRIDGE SITE NUMBER: US-CO-5052

DRAWN BY:	CHK BY:	APV BY:
AV	RD	RD

LAND SURVEY

Sheet Number:



OVERALL SITE PLAN



2323 Delegany Street Denver, CO 80216

PLANS PREPARED BY:

the solutions are endless

7301 Federal Blvd, Suite 301 Westminster, CO 80030 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER 404-052

MLA PARTNER:



750 Park of Commerce Drive Suite 200 Boca Raton, FL 33487 Office # (561) 948-6367



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REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

■ VERTICAL BRIDGE SITE NAME

WOODMEN ELEMENTARY

T-MOBILE SITE #: =

DN04333A

VERTICAL BRIDGE SITE #:

US-CO-5052

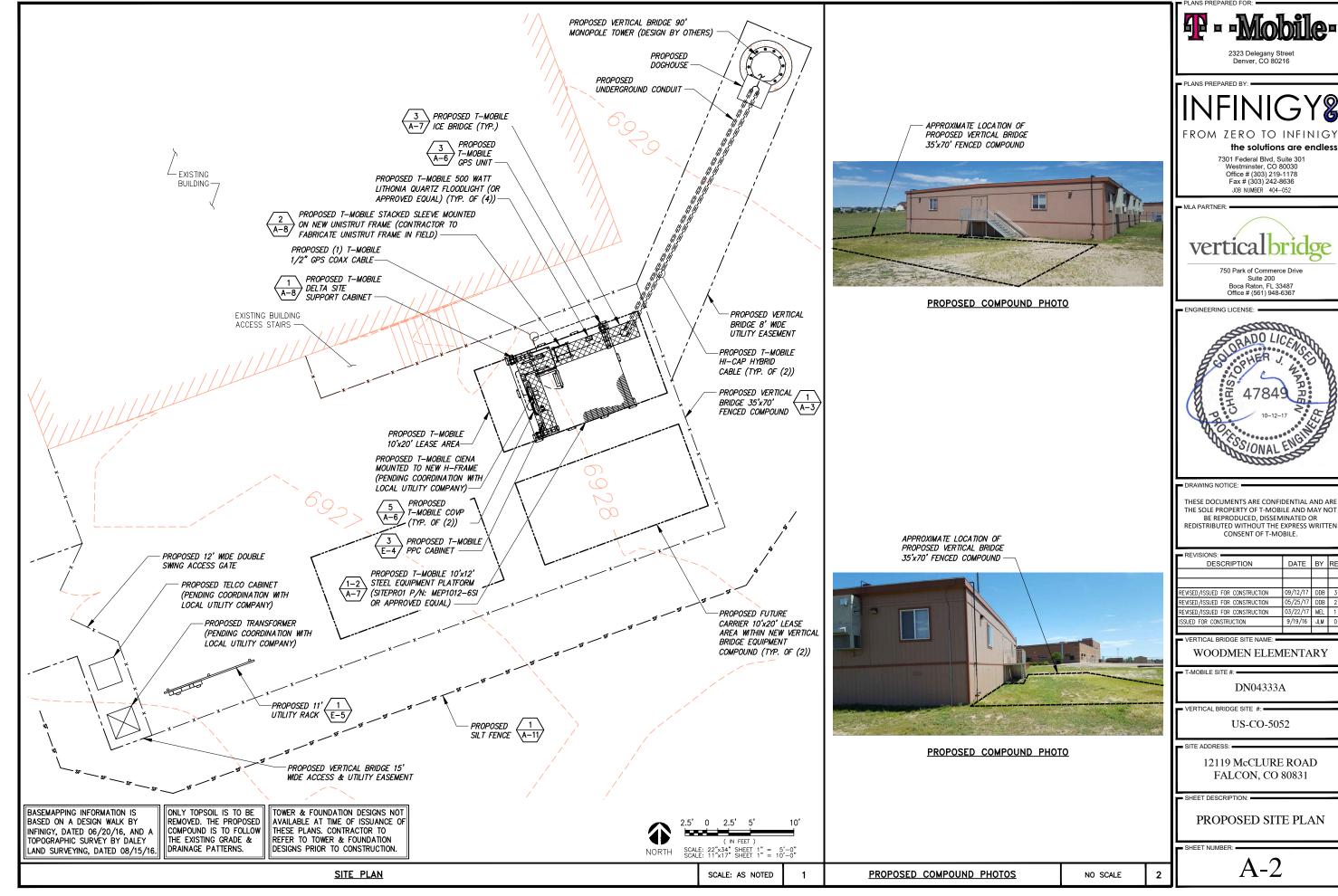
SITE ADDRESS:

12119 McCLURE ROAD FALCON, CO 80831

SHEET DESCRIPTION:

OVERALL SITE PLAN

SCALE: AS NOTED

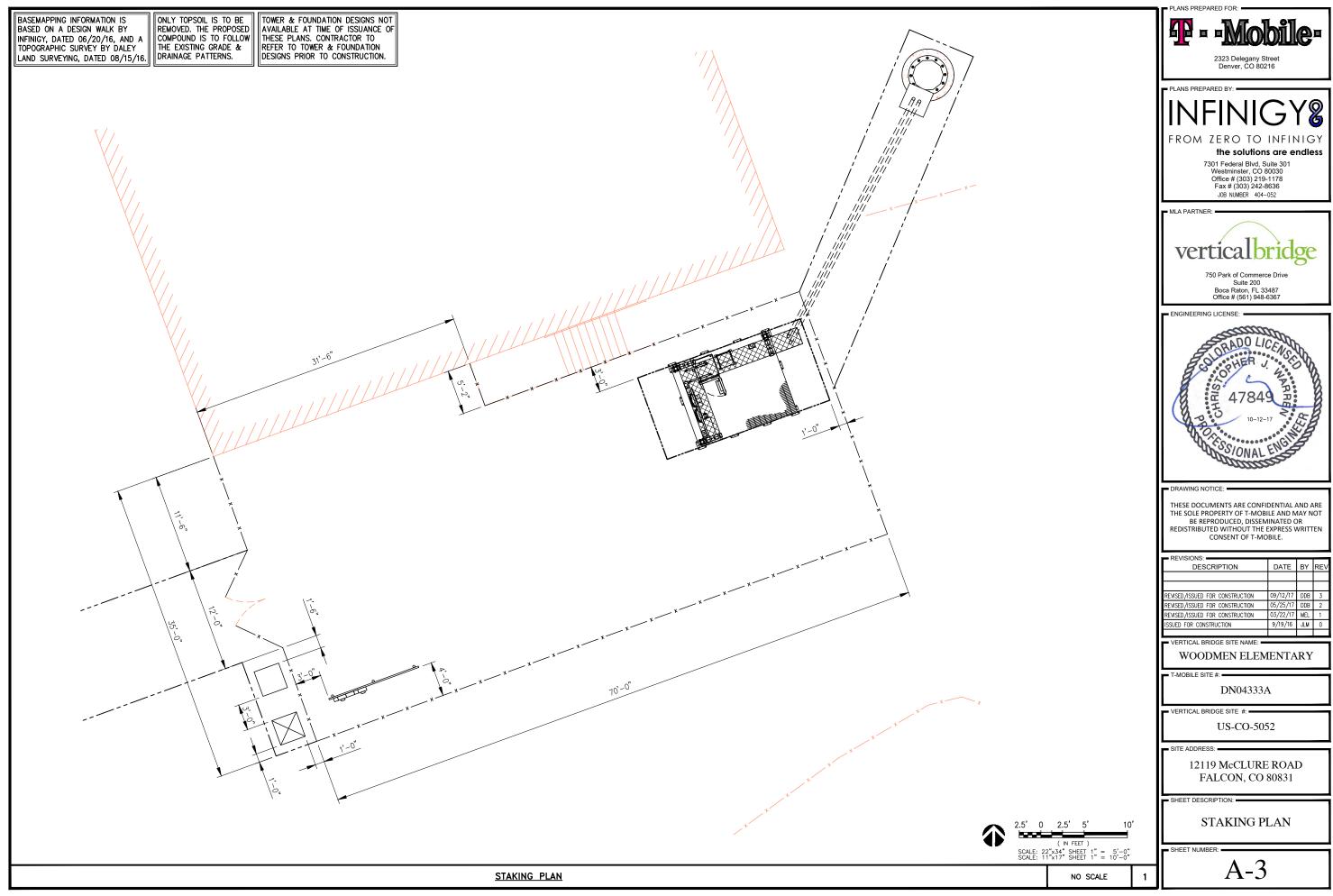




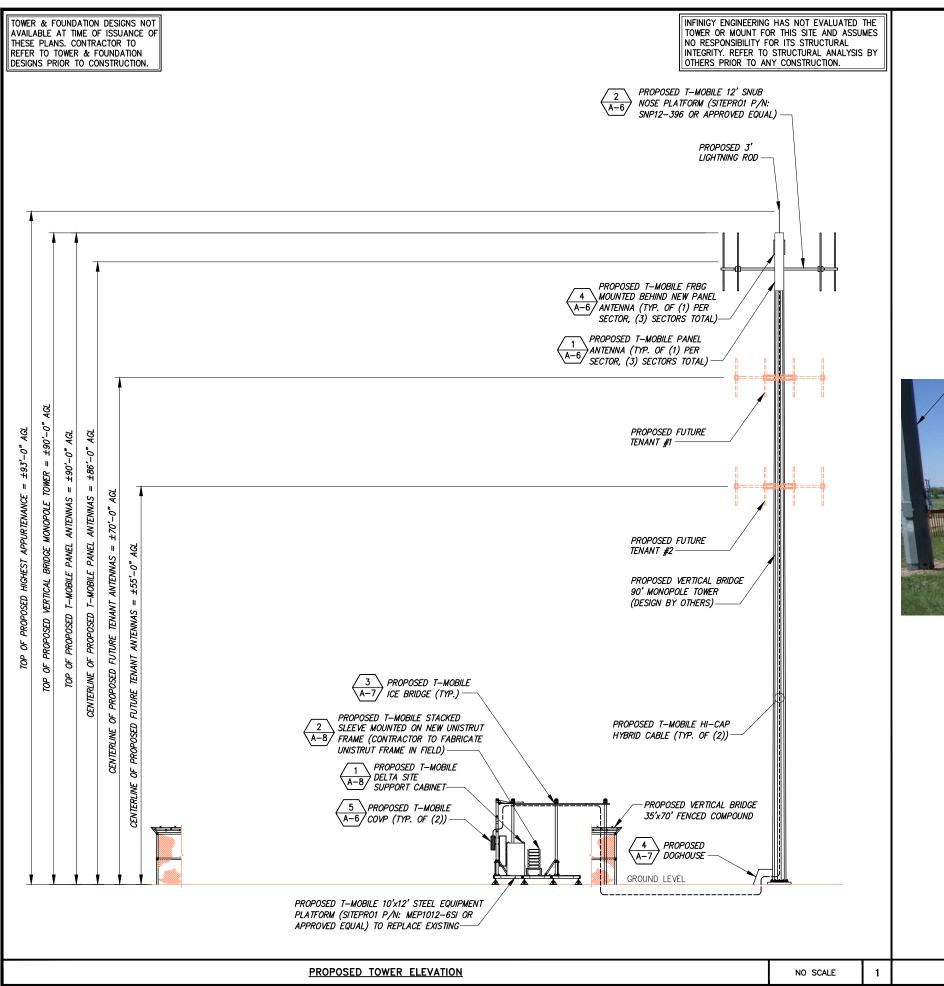


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ISSUED FOR CONSTRUCTION	9/19/16	JLM	0







EXISTING MONOPOLE TO BE REMOVED

- APPROXIMATE LOCATION OF PROPOSED VERTICAL BRIDGE 90' MONOPOLE TOWER (DESIGN BY OTHERS)



PROPOSED TOWER PHOTO

PROPOSED TOWER PHOTO

PLANS PREPARED FOR:

Mobile

M

2323 Delegany Street Denver, CO 80216

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VERTICAL BRIDGE SITE NAME:

WOODMEN ELEMENTARY

T-MOBILE SITE #: =

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VERTICAL BRIDGE SITE #:

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SITE ADDRESS:

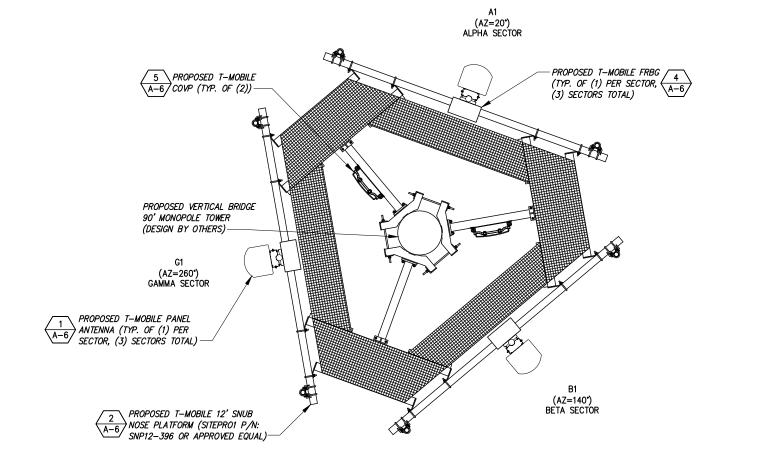
12119 McCLURE ROAD FALCON, CO 80831

SHEET DESCRIPTION:

PROPOSED TOWER ELEVATION

SHEET NUMBER:

NO SCALE



THE CONFIGURATION PLAN IS BASED ON PROVIDED INFORMATION AND IS FOR CONCEPTUAL PURPOSES ONLY. CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION.







ANTENNA &



FASB

2323 Delegany Street Denver, CO 80216

PLANS PREPARED BY:

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750 Park of Commerce Drive Suite 200 Boca Raton, FL 33487 Office # (561) 948-6367



NORTH = 0°

PROPOSED ANTENNA LAYOUT

NO SCALE

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DATE	BV	REV
DATE	5	
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9/19/16	JLM	0
	05/25/17 03/22/17	09/12/17 DDB 05/25/17 DDB 03/22/17 MEL

WOODMEN ELEMENTARY

T-MOBILE SITE #: =

DN04333A

VERTICAL BRIDGE SITE #:

US-CO-5052

SITE ADDRESS:

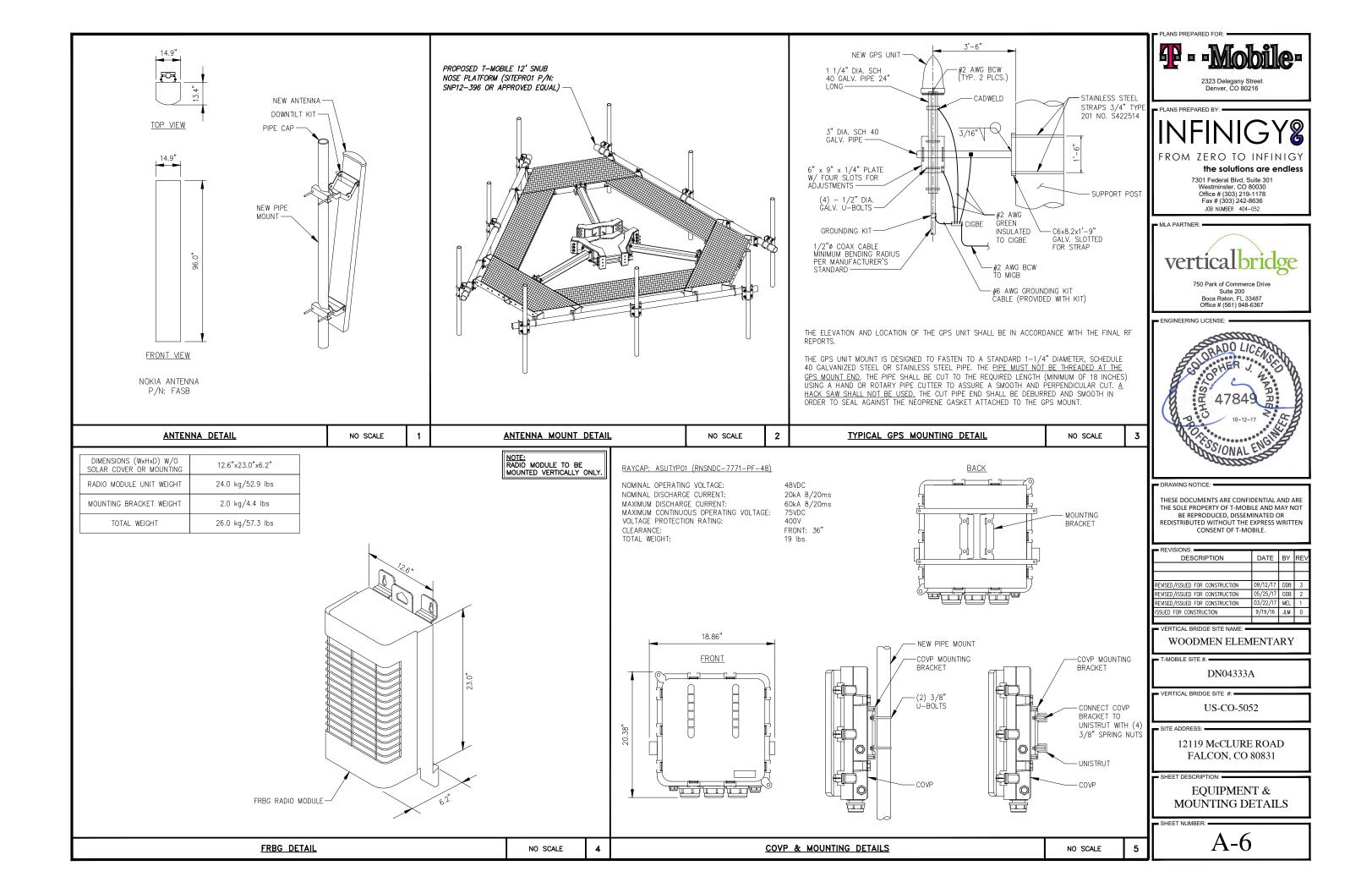
12119 McCLURE ROAD FALCON, CO 80831

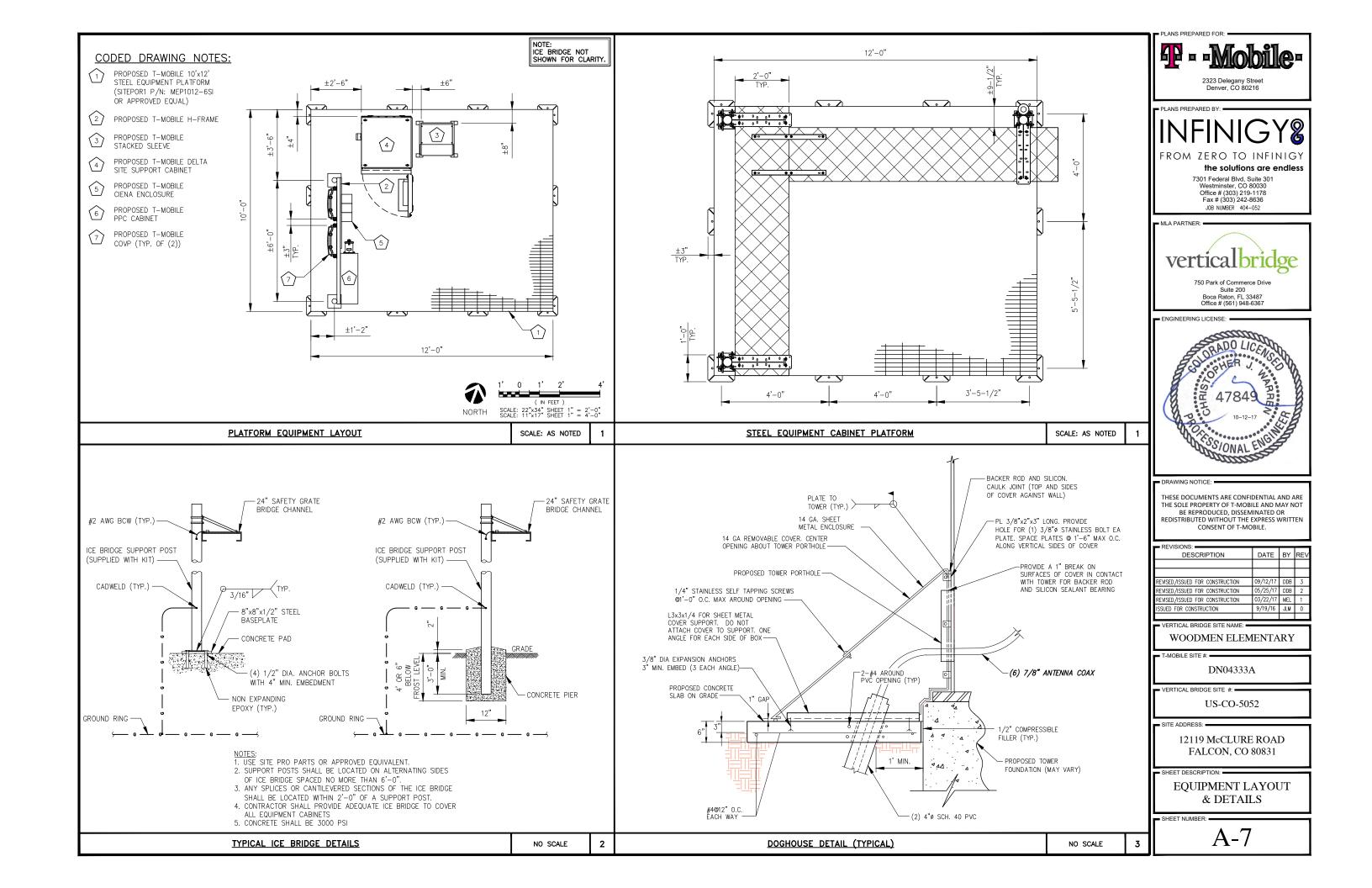
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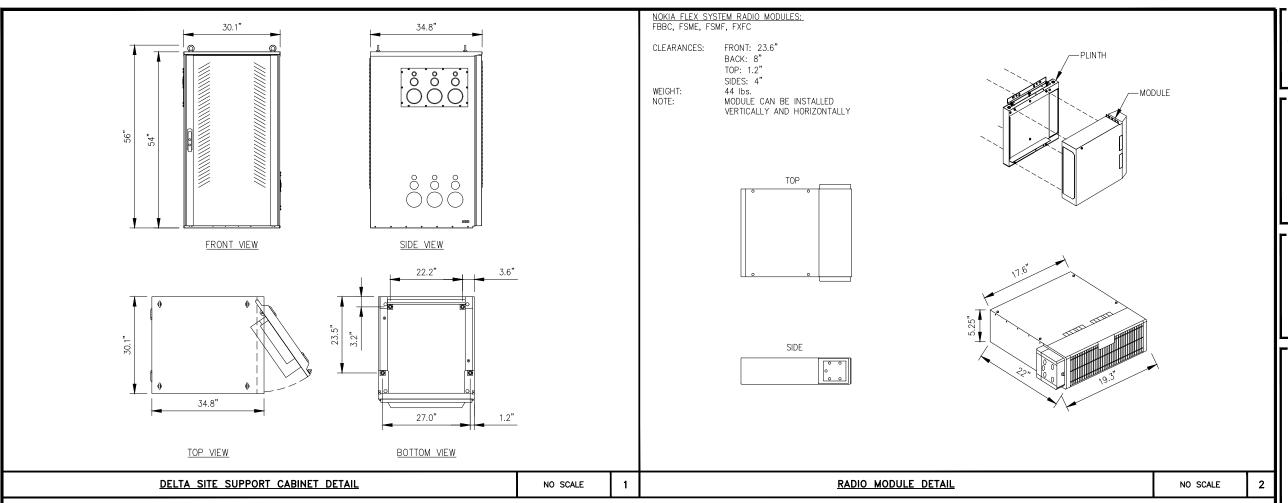
ANTENNA LAYOUT & LOADING CHART

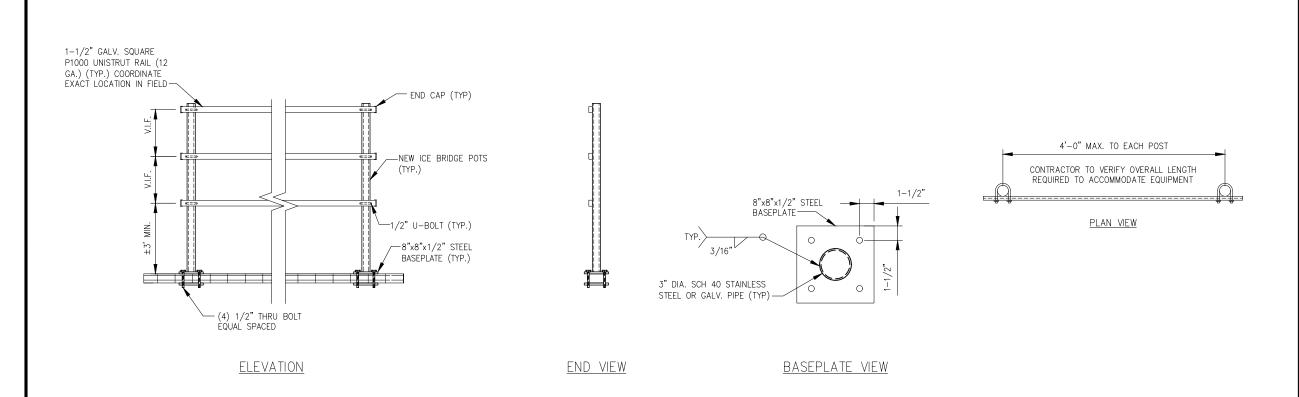
	SITE LOADING CHART											
SECTOR	POSITION	SECTOR COLOR	TECHNOLOGY	ANTENNA MODEL #	VENDOR	QTY. (REMOVED)	QTY. (NEW)	TMA (QTY/MODEL)	AZIMUTH	DOWNTILT MECHANICAL ELECTRICAL	RAD CENTER	FEED LINE TYPE/LENGTH
ALPHA	A1	RED	LTE 700/LTE AWS UNITS PCS	FASB RAS	NOKIA		1		20°	0 4/2/0	±86' AGL	PROPOSED (2) HI-CAP HYBRID CABLES LENGTH = ±175'
BETA	B1	BLUE	LTE 700/LTE AWS UNITS PCS	FASB RAS	NOKIA		1		140°	0 4/2/0	±86' AGL	HYBRID CABLES SHARED W/ ALPHA SECTOR
GAMMA	G1	WHITE	LTE 700/LTE AWS UNITS PCS	FASB RAS	NOKIA		1		260°	0 4/2/0	±86' AGL	HYBRID CABLES SHARED W/ ALPHA SECTOR

NOTE:
CABLE LENGTHS ARE BASED ON PROVIDED
INFORMATION. CONTRACTOR TO VERIFY REQUIRED
CABLE LENGTHS PRIOR TO CONSTRUCTION.









TYPICAL H-FRAME FABRICATION DETAIL

FLANS PREPARED FOR:

Mobile

2323 Delegany Stre Denver, CO 80216

PLANS PREPARED BY:

INFINIGY&

ROM ZERO TO INFINIGY

the solutions are endless

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US-CO-5052

SITE ADDRESS:

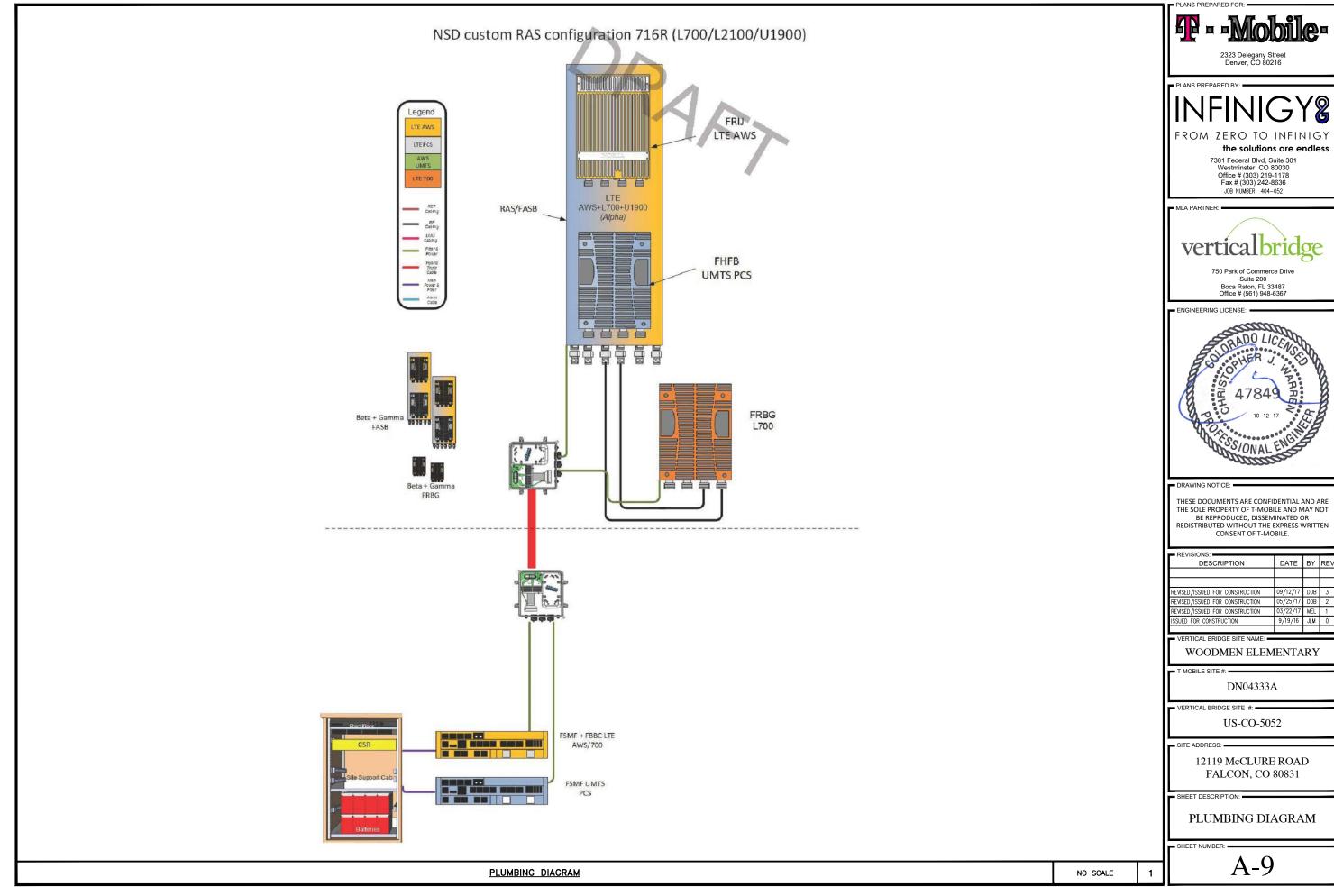
12119 McCLURE ROAD FALCON, CO 80831

SHEET DESCRIPTION:

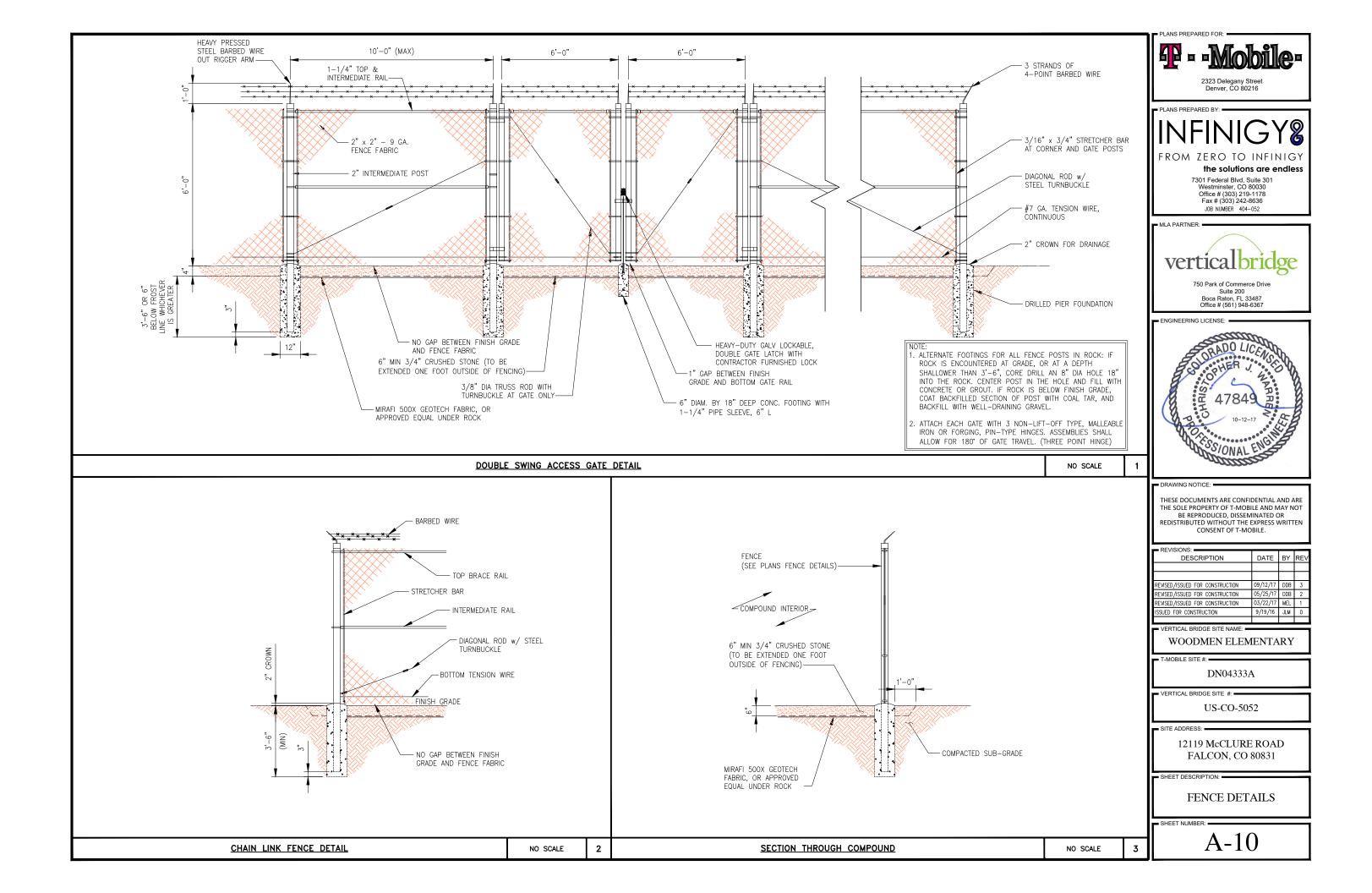
EQUIPMENT & MOUNTING DETAILS

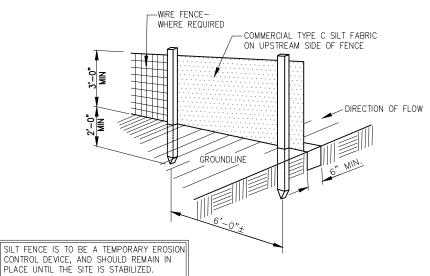
SHEET NUMBER:

NO SCALE









CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.

 2. FILTER CLOTH TO BE FASTENED SECURELY TO
- WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT
- TOP AND MID SECTION.

 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN
 EACH OTHER THEY SHALL BE OVER—LAPPED BY 6IN AND FOLDED.
- 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULDGES" DEVELOP IN THE SILT FENCE.
- 5. ALL SILT FENCE MATERIALS MUST BE LISTED ON THE CURRENT STATES. D.O.T. QUALIFIED PRODUCTS LIST.

NOTE: 1. DIG TRENCH.

NO SCALE

2

- 2. LAY IN FABRIC TO BOTTOM OF TRENCH.
- 3. BACKFILL TRENCH, COVERING FABRIC.

POSTS: STEEL EITHER T OR U TYPE.

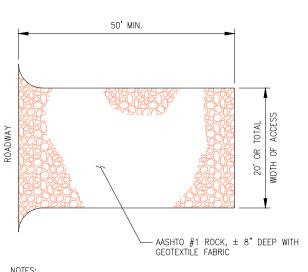
FENCE: WOVEN WIRE 14 GA. 6" MAX. MESH OPENING.

FILTER CLOTH: FILTER X, MIRAFI 100X' STABILINKA T140N OR APPROVED EQUAL.

PREFABRICATED UNIT: GEOFAB ENVIROFENCE OR APPROVED

SILT FENCE DETAIL NO SCALE

BOLLARD DETAIL



- NOTES:

 1. ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE.

 2. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND
- RETURNED TO THE CONSTRUCTION SITE.

DRIVEWAY SECTION - CROWNED

- CONCRETE CAP -6"Ø SCH. 40 STEEL PIPE FILLED WITH LEAN CONCRETE - 1/2" EXPANSION FILLER & SEALANT -8" SUBBASE UNDER GRAVEL -CONCRETE BASE (3000 P.S.I. CONCRETE) FROST LINE 1'-6" DIA. 6" MIN. BELOW FROST LINE (TYP)

NO SCALE

PLANS PREPARED BY:

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7301 Federal Blvd, Suite 301 Westminster, CO 80030 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER 404-052

MLA PARTNER:



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■ ENGINEERING LICENSE



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REVISED/ISSUED FOR CONSTRUCTION	05/25/17	DDB	2
REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

WOODMEN ELEMENTARY

T-MOBILE SITE #: =

DN04333A

VERTICAL BRIDGE SITE #:

US-CO-5052

SITE ADDRESS:

12119 McCLURE ROAD FALCON, CO 80831

SHEET DESCRIPTION:

CIVIL DETAILS

SHEET NUMBER:

UTILITY NOTES:

- CONNECTION TO EXISTING UTILITIES AND INCOMING POWER AND TELEPHONE SERVICES IS FOR CONCEPT ONLY. THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION WITH THE ELECTRIC AND TELEPHONE UTILITIES AND CARRIER.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE ELECTRIC AND TELEPHONE UTILITIES TO ENSURE TO A TIMELY INSTALLATION OF THE INCOMING POWER AND TELEPHONE SERVICES. THE CARRIER WILL OBTAIN AN ELECTRIC SERVICE ORDER (ESO) FOR THIS SITE PRIOR TO THE CONTRACTOR INITIATING ANY WORK ON-SITE.
- 3. THE INCOMING ELECTRIC SERVICE SHALL BE INSPECTED BY THE AUTHORITY HAVING JURISDICTION AND A CERTIFICATE OF SUCH INSPECTION SHALL BE FURNISHED TO THE CARRIER WITH A COPY FORWARDED TO THAT UTILITY.
- 4. ANY UTILITY CHARGES ASSOCIATED WITH THIS SITE SHALL BE PAID BY THE CARRIER AND NO CHARGES, THEREFORE SHALL ACCRUE TO THE CONTRACTOR.
- 5. COORDINATE METER SOCKET REQUIREMENTS AND UTILITY METER ENCLOSURE WITH CARRIER. AND
- 6. INCOMING ELECTRIC SERVICES SHALL BE IN CONFORMANCE WITH THE UTILITIES STANDARDS (LATEST EDITION).
- 7. INSTALL PULL ROPES IN ALL CONDUITS UNLESS NOTED OTHERWISE.
- 8. CONDUIT RUNS SHALL HAVE ONE 18"x18"x8" TRAFFIC RATED PULLBOX AFTER 270 DEGREES OF
- 9. CONDUIT RUNS SHALL HAVE A PULLBOX WITH A MAXIMUM SPACING OF 500 LINEAR FEET.

CODED DRAWING NOTES:

- COORDINATE EXACT LOCATION WITH UTILITY COMPANY. STUB UP POWER AND CONDUITS AS DIRECTED BY UTILITY COMPANY. REFER TO EQUIPMENT SPECIFICATIONS FOR ELECTRICAL REQUIREMENTS.
- PROPOSED UNDERGROUND POWER SERVICE ROUTED FROM NEAREST DEMARC TO PROPOSED TRANSFORMER. (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- PROPOSED TRANSFORMER PROVIDED BY ELECTRIC SERVICE PROVIDER (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- PROPOSED 10' WIDE UTILITY RACK/H-FRAME
- CONTRACTOR TO PROVIDE (2) 4" SCH 40 PVC CONDUITS FROM TRANSFORMER TO 4-GANG METER BANK (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- PROPOSED MAIN ELECTRICAL SERVICE CABINET WITH 4-GANG METER BANK
- 7 EXISTING TRANSFORMER
- PROPOSED TELCO CABINET PROVIDED BY TELCO COMPANY (CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION.)
- PROPOSED TELCO IN 4" SCH. 40 PVC FROM NEAREST TELCO/FIBER DEMARC TO PROPOSED TELCO CABINET (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- (10) EXISTING TELCO PEDESTAL
- ALL TELCO CONDUITS SHALL USE LONG SWEEPS AT BENDS.
- PROPOSED VERTICAL BRIDGE 15' WIDE ACCESS & UTILITY EASEMENT (12)
- PROPOSED T-MOBILE METER & DISCONNECT IN PROPOSED 4-GANG METER BANK
- PROPOSED SCH 40 PVC CONDUIT FROM PROPOSED T-MOBILE DISCONNECT FOR AC POWER TO PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS) & PROPOSED SCH 40 PVC CONDUIT FOR FIBER FROM PROPOSED TELCO CABINET TO PROPOSED CIENA ENCLOSURE (PENDING COORDINATION WITH UTILITY COMPANIES)

GENERAL ELECTRICAL NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES, LAWS, AND ORDINANCES.
- 2. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 UNLESS OTHERWISE INDICATED. CONDUITS EXPOSED ABOVE GROUND SHALL BE RIGID GALVANIZED STEEL. ALL UNDERGROUND CONDUIT SHALL TRANSITION FROM PVC TO RIGID ABOVE GRADE, PROVIDE 36" SEPARATION BETWEEN UNDERGROUND POWER AND TELEPHONE CONDUITS. SUPPLY UTILITY MARKING TAPE BURIED 12" BELOW GRADE ALONG ENTIRE LENGTH OF UNDERGROUND CONDUITS
- 3. ALL CONDUCTORS SHALL BE COPPER WITH THHN/THWN INSULATION. CONTROL CONDUCTORS SHALL BE STRANDED, POWER & LIGHTING CONDUCTORS SHALL BE SOLID FOR #10 & #12 CONDUCTORS AND STRANDED FOR ALL OTHER SIZES.
- 4. ELECTRICAL DRAWINGS ARE IN PART DIAGRAMMATIC. COORDINATE ELECTRICAL WORK WITH SITE CONDITIONS.
- 5. LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING. IF CONFLICTS ARISE, CONTACT UTILITY COMPANY AND ENGINEER
- 6. ALL EXPOSED CONDUITS SHALL HAVE WEATHERPROOF CAPS NOT DUCT TAPE.
- 7. PROVIDE 200 LB TEST PULL WIRES IN EACH TELEPHONE AND POWER CONDUIT.
- 8. PULL BOXES SHALL BE INSTALLED AS NEEDED PER NEC UTILITY REQUIREMENTS.

ADDDEVIATIONS.

	ABBREVIATIONS:
& AWG BCW	AND AMERICAN WIRE GAUGE BARE COPPER WIRE
BFG BTS C CAB	BELOW FINISH GRADE BARE TINNED STRANDED CONDUIT CABINET
CIGBE DLO DWG	COAX ISOLATED GROUND BAR EXTERNAL DIESEL LOCOMOTIVE CABLE DRAWING
EGR EIGB G	EXTERIOR GROUND RING EXTERIOR ISOLATED GROUND BAR GROUND
GPS HALO MIGB	GLOBAL POSITIONING SYSTEM INTERIOR GROUND RING MAIN ISOLATED GROUND BAR
MGN MSC MTSO PVC	MULTI-GROUNDED NEUTRAL MOBILE SWITCHING CENTER MOBILE TELEPHONE SWITCHING OFFICE POLYVINYL CHLORIDE
QTY RGS SS	QUANTITY RIGID GALVANIZED STEEL STAINLESS STEEL
SST TGR	SELF SUPPORT TOWER TOWER GROUND RING

PROPOSED VERTICAL BRIDGE 90' MONOPOLE TOWER (DESIGN BY OTHERS)

TYP.

W/

PROPOSED T-MOBILE INSTALLATION IN NEW T-MOBILE 10'x20' LEASE AREA WITHIN NEW VERTICAL BRIDGE EQUIPMENT COMPOUND

TYPICAL

PROPOSED VERTICAL BRIDGE 35'x70' LEASE AREA/ FENCED COMPOUND

EXISTING

PLAYGROUND

15' 30'

SCALE: 22"x34" SHEET 1" = SCALE: 11"x17" SHEET 1" = NORTH



Denver, CO 80216

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ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

■ VERTICAL BRIDGE SITE NAME: WOODMEN ELEMENTARY

T-MOBILE SITE #: =

DN04333A

VERTICAL BRIDGE SITE #:

US-CO-5052

SITE ADDRESS: =

12119 McCLURE ROAD FALCON, CO 80831

SHEET DESCRIPTION:

OVERALL UTILITY LAYOUT

SHEET NUMBER:

 E_{-1}

NOTE:
CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, COORDINATE LOCATION OF ALL PROPOSED DIGGING & UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

OVERALL UTILITY LAYOUT

APPROXIMATE LOCATION OF

EXISTING PROPERTY LINE (TYP.)

SCALE: AS NOTED

GENERAL ELECTRICAL NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES, LAWS, AND ORDINANCES.
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- 4. ELECTRICAL DRAWINGS ARE IN PART DIAGRAMMATIC. COORDINATE ELECTRICAL WORK WITH SITE CONDITIONS
- 5. LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING. IF CONFLICTS ARISE, CONTACT UTILITY COMPANY AND **ENGINEER IMMEDIATELY**
- 6. ALL EXPOSED CONDUITS SHALL HAVE WEATHERPROOF CAPS NOT DUCT TAPE.
- 7. PROVIDE 200 LB TEST PULL WIRES IN EACH TELEPHONE
- 8. PULL BOXES SHALL BE INSTALLED AS NEEDED PER NEC

CODED DRAWING NOTES:

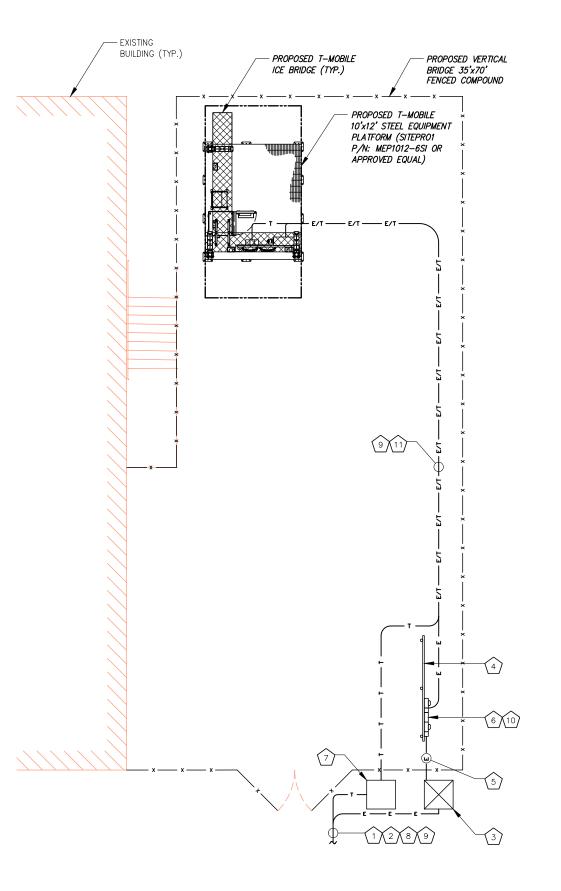
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- PROPOSED TRANSFORMER PROVIDED BY ELECTRIC SERVICE PROVIDER (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- 4 PROPOSED 10' WIDE UTILITY RACK/H-FRAME
- CONTRACTOR TO PROVIDE (2) 4" SCH 40 PVC CONDUITS FROM TRANSFORMER TO 4-GANG METER BANK (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- PROPOSED MAIN ELECTRICAL SERVICE CABINET WITH 4-GANG METER BANK
- PROPOSED TELCO CABINET PROVIDED BY TELCO COMPANY (CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION.)
- PROPOSED TELCO IN 4" SCH. 40 PVC FROM NEAREST TELCO/FIBER DEMARC TO PROPOSED TELCO CABINET (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- (9) ALL TELCO CONDUITS SHALL USE LONG SWEEPS AT BENDS.
- PROPOSED T-MOBILE METER & DISCONNECT IN PROPOSED 4-GANG METER BANK

NOTE:
CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR

TO CONSTRUCTION, COORDINATE LOCATION OF ALL PROPOSED

DIGGING & UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

PROPOSED SCH 40 PVC CONDUIT FROM PROPOSED T-MOBILE DISCONNECT FOR AC POWER TO PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS) & PROPOSED SCH 40 PVC CONDUIT FOR FIBER FROM PROPOSED TELCO CABINET TO PROPOSED CIENA ENCLOSURE (PENDING COORDINATION WITH UTILITY COMPANIES)



ABBREVIATIONS:

AMERICAN WIRE GAUGE AWG BCW BFG BTS BARE COPPER WIRE BELOW FINISH GRADE BARE TINNED STRANDED CONDUIT CAB CABINET CIGBE DLO DWG COAX ISOLATED GROUND BAR EXTERNAL DIESEL LOCOMOTIVE CABLE DRAWING EGR EXTERIOR GROUND RING EIGB EXTERIOR ISOLATED GROUND BAR GROUND GPS GLOBAL POSITIONING SYSTEM HALO INTERIOR GROUND RING MIGB MAIN ISOLATED GROUND BAR MULTI-GROUNDED NEUTRAL MGN MSC MOBILE SWITCHING CENTER MTS0 MOBILE TELEPHONE SWITCHING OFFICE PVC QTY RGS POLYVINYL CHLORIDE OLIANTITY RIGID GALVANIZED STEEL SS SST TGR TYP. STAINLESS STEEL SELF SUPPORT TOWER TOWER GROUND RING **TYPICAL**

ELECTRICAL SYMBOLS:

RECEPTACLE BURIED POWER CONDUIT BURIED TELCO CONDUIT \bigcirc ELECTRICAL METER INDICATES CODED NUMBER SAFETY SWITCH Ø UTILITY POLE

PLANS PREPARED BY:

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MLA PARTNER:



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T-MOBILE SITE #: =

DN04333A

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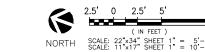
SITE ADDRESS: =

12119 McCLURE ROAD FALCON, CO 80831

SHEET DESCRIPTION: =

COMPOUND UTILITY LAYOUT

SHEET NUMBER:



GENERAL ELECTRICAL NOTES:

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- 6. ALL EXPOSED CONDUITS SHALL HAVE WEATHERPROOF
- 7. PROVIDE 200 LB TEST PULL WIRES IN EACH TELEPHONE
- 8. PULL BOXES SHALL BE INSTALLED AS NEEDED PER NEC UTILITY REQUIREMENTS.

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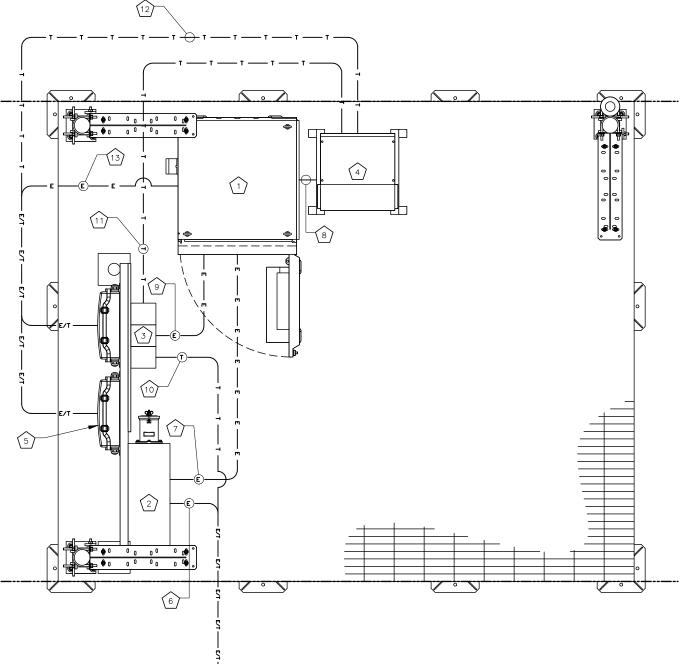
- PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET
- PROPOSED T-MOBILE PPC CABINET
- (3)PROPOSED CIENA ENCLOSURE

NOTE: ICE BRIDGE NOT SHOWN FOR CLARITY.

- PROPOSED T-MOBILE STACKED SLEEVE
- (5) PROPOSED T-MOBILE COVP (TYP. OF (2))
- (1) 2" PVC CONDUIT WITH (3) 3#0 & (1) #6 GROUND AWG FROM NEW T-MOBILE DISCONNECT TO PROPOSED T-MOBILE PPC (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- (1) 2" GRC OR LIQUIDTIGHT CONDUIT FROM PROPOSED T-MOBILE DISCONNECT FOR AC POWER TO PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- (1) 2" GRC OR LIQUIDTIGHT CONDUIT FOR DC POWER TO PROPOSED T-MOBILE STACKED SLEEVE (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- (1) 2" GRC OR LIQUIDTIGHT CONDUIT FOR DC POWER TO PROPOSED CIENA ENCLOSURE (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- (1) 2" GRC OR LIQUIDTIGHT CONDUIT FOR FIBER FROM NEW TELCO CABINET TO PROPOSED CIENA ENCLOSURE
- (1) 2" GRC OR LIQUIDTIGHT CONDUIT FOR FIBER FROM PROPOSED CIENA ENCLOSURE TO PROPOSED T-MOBILE STACKED SLEEVE
- (2) 1" GRC OR LIQUIDTIGHT CONDUITS FOR FIBER FROM PROPOSED T-MOBILE STACKED SLEEVE TO PROPOSED T-MOBILE COVPS
- (3) 1" GRC OR LIQUIDTIGHT CONDUITS FOR DC POWER FROM PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET TO PROPOSED T-MOBILE COVPs (CONTRACTOR TO SUPPLY SIZE/QTY CONDUCTORS PER MANUFACTURER'S SPECIFICATIONS)

CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, COORDINATE LOCATION OF ALL PROPOSED

DIGGING & UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.



ABBREVIATIONS:

AMERICAN WIRE GALIGE AWG BARE COPPER WIRE BCW BFG BELOW FINISH GRADE BTS BARE TINNED STRANDED CONDUIT CAB CABINET COAX ISOLATED GROUND BAR EXTERNAL CIGBE DIESEL LOCOMOTIVE CABLE DLO DWG DRAWING EGR EXTERIOR GROUND RING EIGB EXTERIOR ISOLATED GROUND BAR GROUND GPS GLOBAL POSITIONING SYSTEM HALO INTERIOR GROUND RING MIGB MAIN ISOLATED GROUND BAR MULTI-GROUNDED NEUTRAL MGN MOBILE SWITCHING CENTER MTSO MOBILE TELEPHONE SWITCHING OFFICE PVC QTY RGS POLYVINYL CHLORIDE OLIANTITY RIGID GALVANIZED STEEL SS SST TGR TYP. STAINLESS STEEL SELF SUPPORT TOWER TOWER GROUND RING **TYPICAL**

WITH

ELECTRICAL SYMBOLS:

RECEPTACLE BURIED POWER CONDUIT BURIED TELCO CONDUIT \bigcirc ELECTRICAL METER INDICATES CODED NUMBER SAFETY SWITCH Ø UTILITY POLE

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VERTICAL BRIDGE SITE NAME: WOODMEN ELEMENTARY

T-MOBILE SITE #: =

DN04333A

VERTICAL BRIDGE SITE #: US-CO-5052

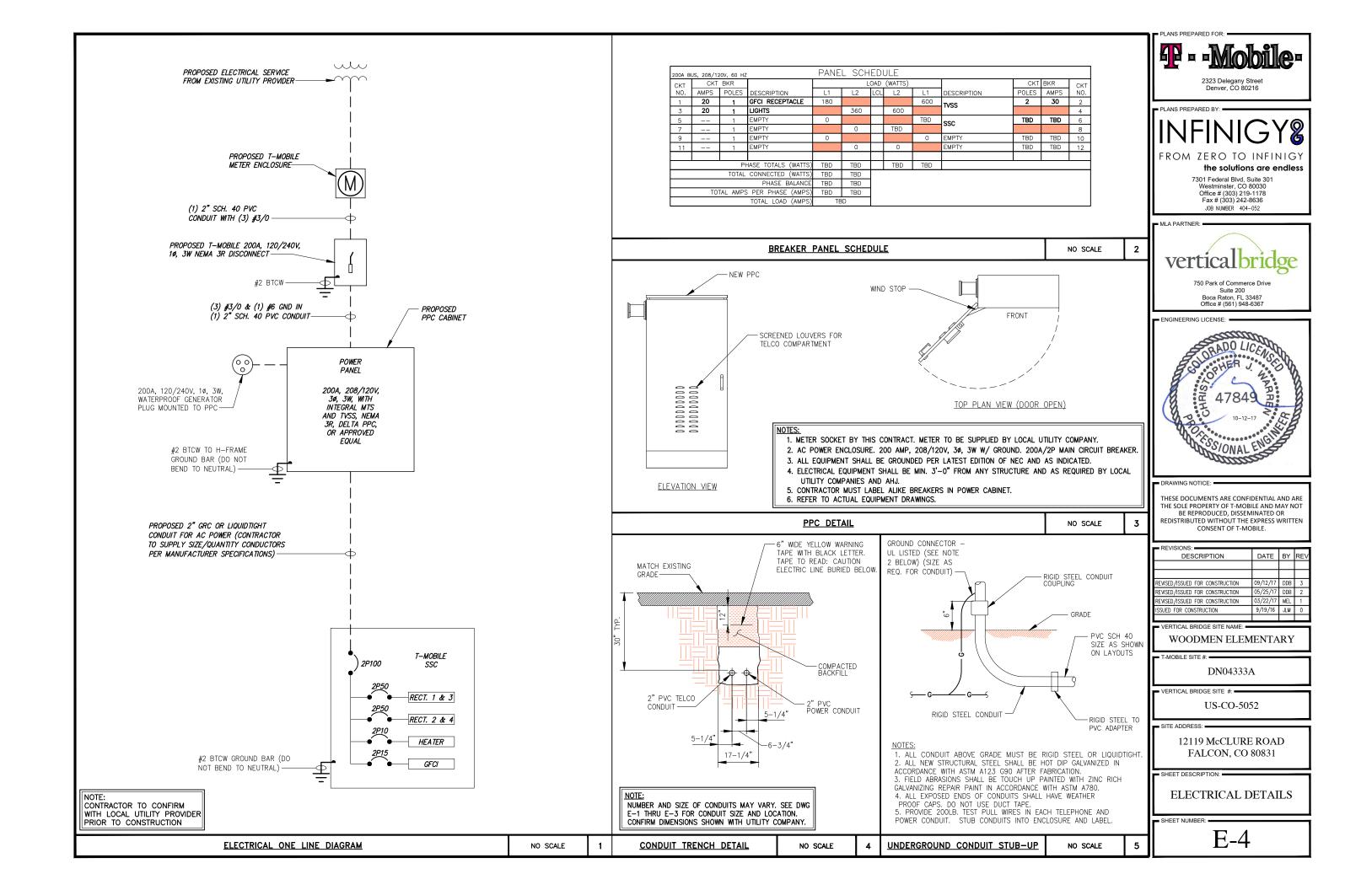
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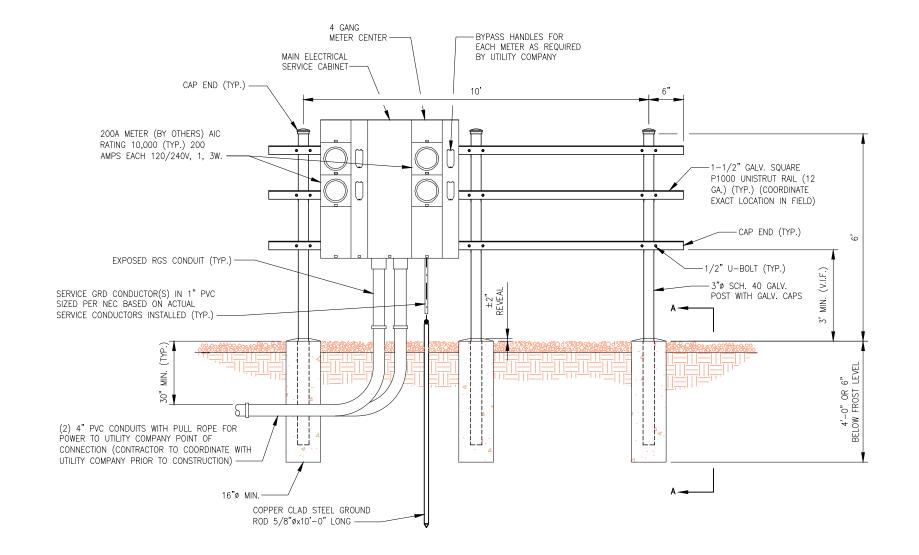
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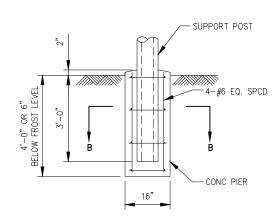
EQUIPMENT UTILITY LAYOUT

SHEET NUMBER:

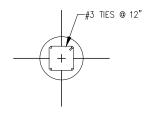
0.75' 0 0.75' 1.5' 6 (IN FEET NORTH 22"x34" SHEET 1" = 11"x17" SHEET 1" =







SECTION A-A



SECTION B-B



PLANS PREPARED BY:

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WOODMEN ELEMENTARY

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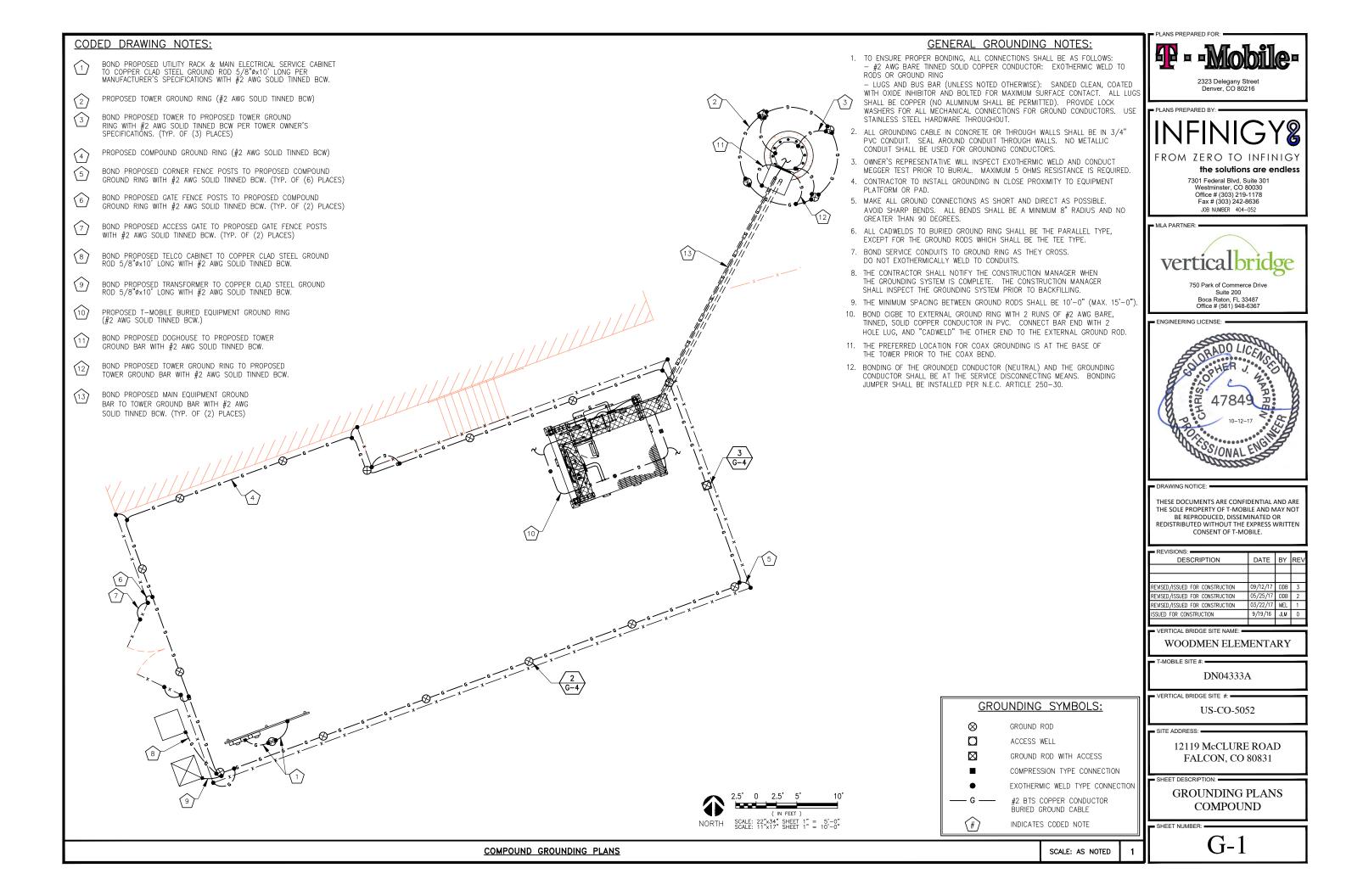
12119 McCLURE ROAD FALCON, CO 80831

SHEET DESCRIPTION:

UTILITY RACK DETAIL

SHEET NUMBER: =

E-5



CODED DRAWING NOTES:

- PROPOSED T-MOBILE BURIED EQUIPMENT GROUND RING (#2 AWG SOLID TINNED BCW) (BELOW PLATFORM)
- PROPOSED EQUIPMENT GROUND BAR NEAR PROPOSED T-MOBILE EQUIPMENT (TYP. OF (2))
- PROPOSED T-MOBILE STEEL EQUIPMENT PLATFORM TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS
- PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS
- PROPOSED T-MOBILE STACKED SLEEVE TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS
- PROPOSED T-MOBILE PPC CABINET TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS (TYP.)
- PROPOSED T-MOBILE CIENA ENCLOSURE TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS (TYP.)
- BOND PROPOSED T-MOBILE H-FRAME TO NEW T-MOBILE BURIED EQUIPMENT GROUND RING WITH #2 AWG SOLID TINNED BCW.
- BOND PROPOSED EQUIPMENT GROUND BAR TO NEW T-MOBILE BURIED EQUIPMENT GROUND RING WITH #2 AWG SOLID TINNED BCW.
- BOND PROPOSED ICE BRIDGE TO NEW T-MOBILE BURIED FOUIPMENT GROUND RING WITH #2 AWG SOLID TINNED BCW
- BOND PROPOSED T-MOBILE GPS UNIT TO NEW T-MOBILE BURIED EQUIPMENT GROUND RING WITH #2 AWG SOLID TINNED BCW.
- PROPOSED T-MOBILE 500 WATT LITHONIA QUARTZ FLOODLIGHT (OR APPROVED EQUAL) TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS
- BOND PROPOSED T-MOBILE BURIED EQUIPMENT GROUND RING TO PROPOSED BURIED COMPOUND GROUND RING WITH #2 AWG SOLID TINNED BCW. (TYP. OF (2) PLACES) (CONTRACTOR TO VERIFY)
- BOND PROPOSED T-MOBILE TOWER BASE CIGBE TO PROPOSED EQUIPMENT GROUND BAR WITH #2 AWG SOLID TINNED BCW. (CONTRACTOR TO VERIFY)
- PROPOSED T-MOBILE COVP TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS (TYP.)

PROPOSED SECTOR GROUND BAR (TYP. OF (1) PER SECTOR, (3) SECTORS TOTAL) PROPOSED T-MOBILE FRBG BOND PROPOSED T-MOBILE COVP TO (TYP. OF (1) PER SECTOR, PROPOSED T-MOBILE CIGBE PER (3) SECTORS TOTAL) MANUFACTURER'S SPECIFICATIONS (TYP.) PROPOSED T-MOBILE 12' SNUB NOSE PLATFORM (SITEPRO1 P/N: BOND PROPOSED T-MOBILE SNP12-396 OR APPROVED EQUAL) SECTOR GROUND BAR TO PROPOSED T-MOBILE CIGBE PROPOSED T-MOBILE PANEL PER MANUFACTURER'S ANTENNA (TYP. OF (1) PER SPECIFICATIONS (TYP.) SECTOR, (3) SECTORS TOTAL)

PROPOSED T-MOBILE BOND PROPOSED T-MOBILE FRBG TO COVP (TYP. OF (2)) PROPOSED T-MOBILE SECTOR GROUND BAR PER MANUFACTURER'S SPECIFICATIONS (TYP.) BOND PROPOSED PROPOSED T-MOBILE CIGBE TO EXISTING PROPOSED BASE BOND PROPOSED T-MOBILE PANEL ANTENNA

CIGBE (CONTRACTOR TO VERIFY) -

TYPICAL ANTENNA GROUNDING PLAN (NOT TO SCALE)

PROPOSED T-MOBILE

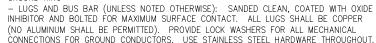
TOWER TOP CIGBE

TO PROPOSED T-MOBILE CIGBE PER

MANUFACTURER'S SPECIFICATIONS (TYP.)

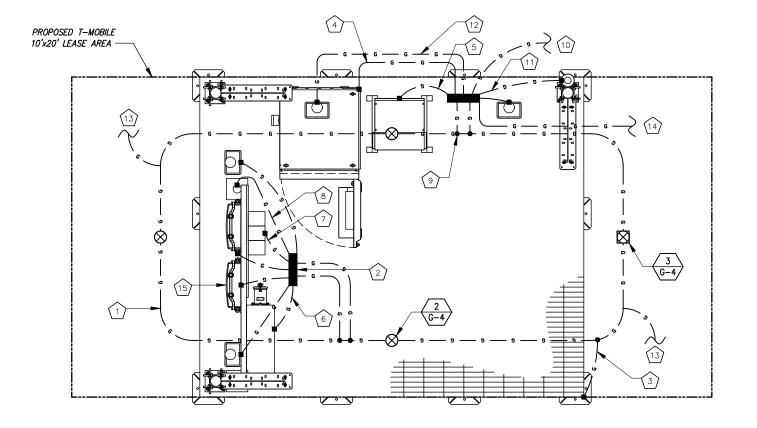
GENERAL GROUNDING NOTES:

- 1. TO ENSURE PROPER BONDING, ALL CONNECTIONS SHALL BE AS FOLLOWS: - #2 AWG BARE TINNED SOLID COPPER CONDUCTOR: EXOTHERMIC WELD TO RODS OR
- INHIBITOR AND BOLTED FOR MAXIMUM SURFACE CONTACT. ALL LUGS SHALL BE COPPER (NO ALUMINUM SHALL BE PERMITTED). PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
- PVC CONDUIT. SEAL AROUND CONDUIT THROUGH WALLS. NO METALLIC
- MEGGER TEST PRIOR TO BURIAL. MAXIMUM 5 OHMS RESISTANCE IS REQUIRED.
- 5. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS SHALL BE A MINIMUM 8" RADIUS AND NO GREATER THAN 90 DEGREES.
- 6. ALL CADWELDS TO BURIED GROUND RING SHALL BE THE PARALLEL TYPE, EXCEPT FOR THE GROUND RODS WHICH SHALL BE THE TEE TYPE.
- 7. BOND SERVICE CONDUITS TO GROUND RING AS THEY CROSS.
- 8. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.
- THE MINIMUM SPACING BETWEEN GROUND RODS SHALL BE 10'-0" (MAX. 15'-0").
- 11. THE PREFERRED LOCATION FOR COAX GROUNDING IS AT THE BASE OF THE TOWER PRIOR TO THE COAX BEND.
- CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250-30.



2. ALL GROUNDING CABLE IN CONCRETE OR THROUGH WALLS SHALL BE IN 3/4" CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS.

- 3. OWNER'S REPRESENTATIVE WILL INSPECT EXOTHERMIC WELD AND CONDUCT
- 4. CONTRACTOR TO INSTALL GROUNDING IN CLOSE PROXIMITY TO EQUIPMENT PLATFORM OR PAD.
- DO NOT EXOTHERMICALLY WELD TO CONDUITS.
- 10. BOND CIGBE TO EXTERNAL GROUND RING WITH 2 RUNS OF #2 AWG BARE, TINNED, SOLID COPPER CONDUCTOR IN PVC. CONNECT BAR END WITH 2 HOLE LUG, AND "CADWELD" THE OTHER END TO THE EXTERNAL GROUND ROD.
- 12. BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING



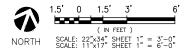
GROUNDING SYMBOLS:

- GROUND ROD \otimes
- ACCESS WELL
- \boxtimes GROUND ROD WITH ACCESS
- EXOTHERMIC WELD TYPE CONNECTION

COMPRESSION TYPE CONNECTION

- #2 BTS COPPER CONDUCTOR
- "BURIED GROUND CABLE
 - INDICATES CODED NOTE

TYPICAL SITE GROUNDING PLAN



GROUNDING PLANS SCALE: AS NOTED

PLANS PREPARED BY:



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MI A PARTNER



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VISIONS:	-
DESCRIPTION	
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DESCRIPTION	DATE	BY	RE\
REVISED/ISSUED FOR CONSTRUCTION	09/12/17	DDB	3
REVISED/ISSUED FOR CONSTRUCTION	05/25/17	DDB	2
REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

VERTICAL BRIDGE SITE NAME: WOODMEN ELEMENTARY

T-MOBILE SITE #: =

DN04333A

US-CO-5052

VERTICAL BRIDGE SITE #:

SITE ADDRESS: =

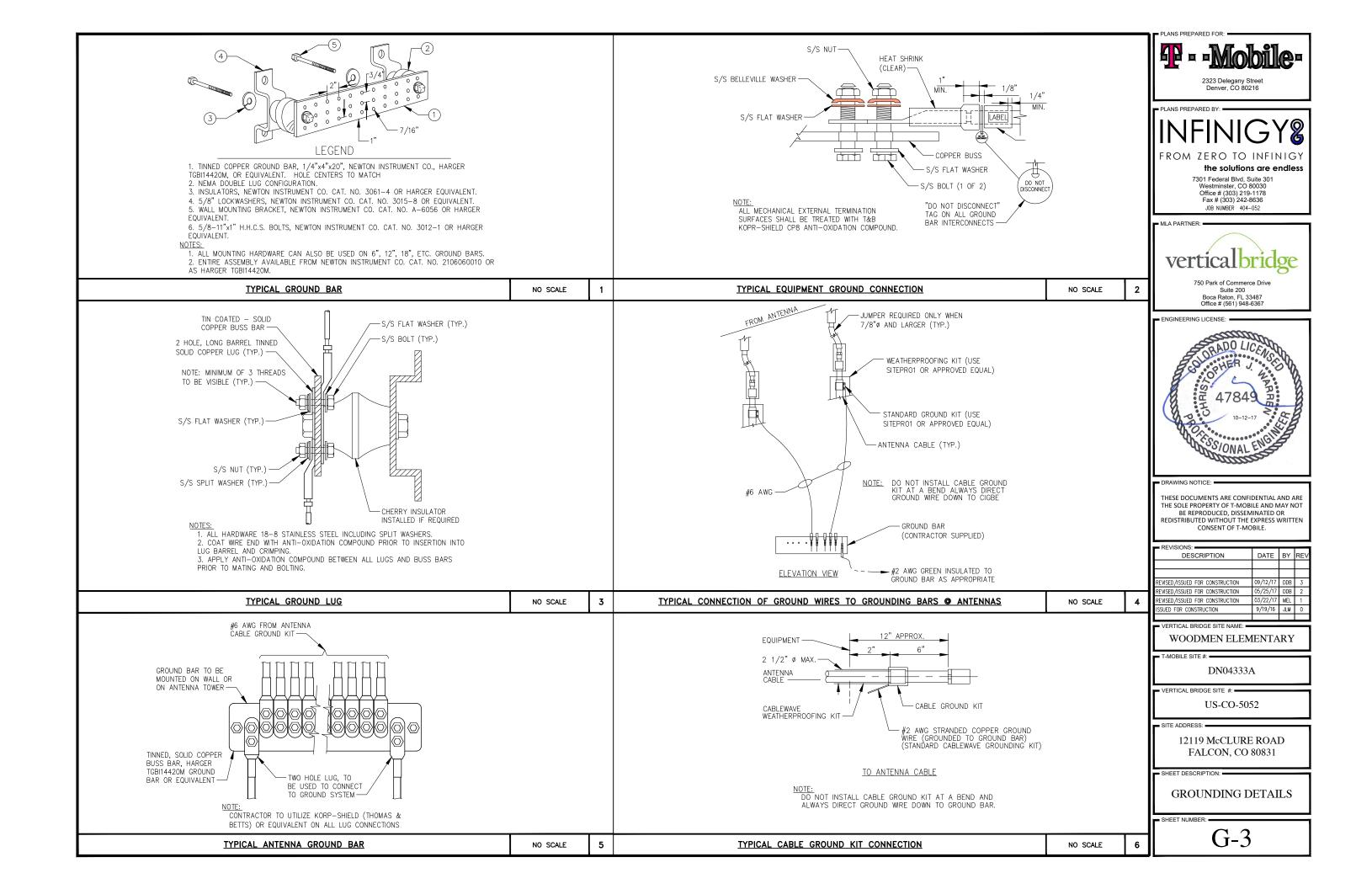
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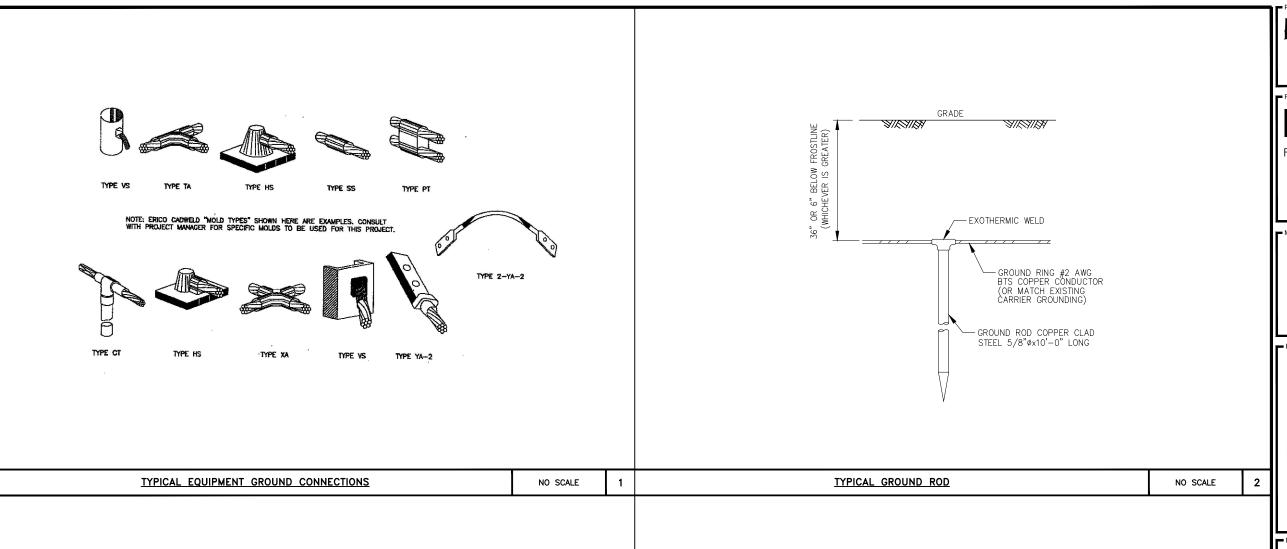
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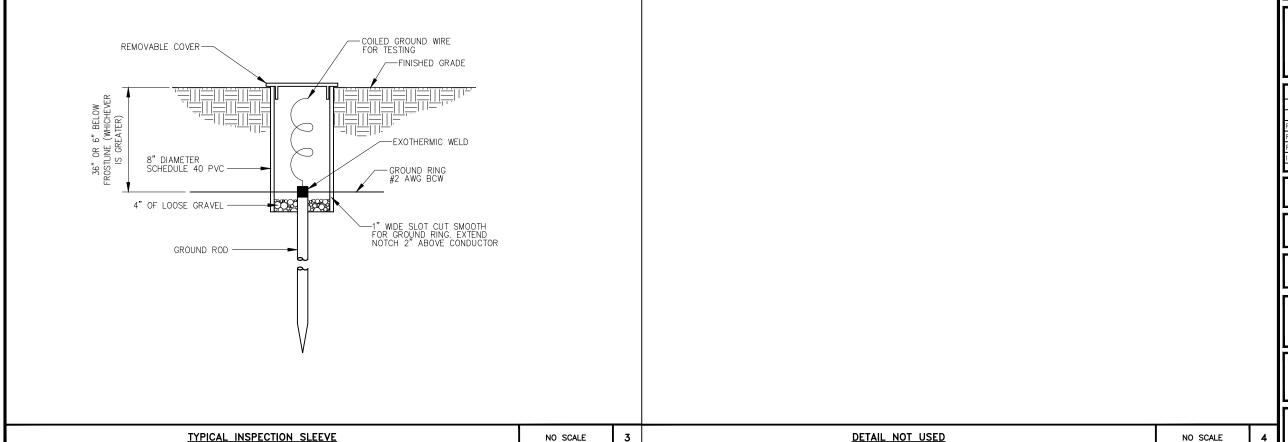
GROUNDING PLANS

SHEET NUMBER:

G-2







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REVISED/ISSUED FOR CONSTRUCTION	05/25/17	DDB	2
REVISED/ISSUED FOR CONSTRUCTION	03/22/17	MEL	1
ISSUED FOR CONSTRUCTION	9/19/16	JLM	0

■ VERTICAL BRIDGE SITE NAME: ■ WOODMEN ELEMENTARY

T-MOBILE SITE #: -

DN04333A

VERTICAL BRIDGE SITE #:

US-CO-5052

SITE ADDRESS:

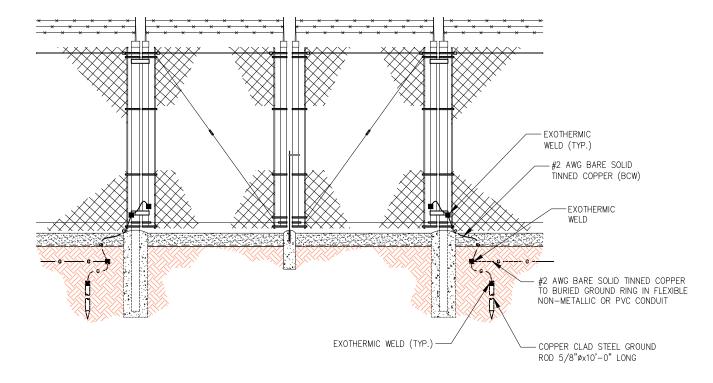
12119 McCLURE ROAD FALCON, CO 80831

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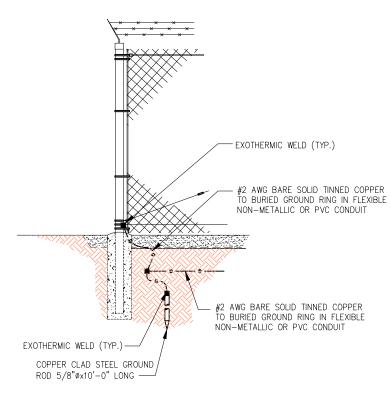
GROUNDING DETAILS

SHEET NUMBER: =

G-4



TYPICAL ACCESS GATE GROUNDING DETAIL



TYPICAL FENCE POST GROUNDING DETAIL

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REVISED/ISSUED FOR CONSTRUCTION /22/17 MEL 1 SSUED FOR CONSTRUCTION 9/19/16 JLM 0 WOODMEN ELEMENTARY

T-MOBILE SITE #:

DN04333A

VERTICAL BRIDGE SITE #:

US-CO-5052

SITE ADDRESS:

12119 McCLURE ROAD FALCON, CO 80831

SHEET DESCRIPTION:

GROUNDING DETAILS

SHEET NUMBER: =

G-5

FENCE GROUNDING DETAILS

NO SCALE