



SITE INFORMATION

APPLICANT:

2323 DELGANY STREET DENVER, CO 80216

JOHN WABISZCZEWICZ (303) 313-6930

BOCA RATON, FL 33478

LATITUDE (NAD83):

LONGITUDE (NAD83):

ZONING JURISDICTION:

38° 58' 21.9288" N 38.972758°

104° 37' 09.8832" W -104.619412°

EL PASO COUNTY

POWER COMPANY:

TELCO PROVIDER:

T-MOBILE CM:

KEN GREENWOOD

(303) 313-6910

COUNTY:

VERTICAL BRIDGE PM:

TOWER OWNER:

MATT GRUGAN

(678) 488-1866

T-MOBILE

CONTACT:

This should only be the elevation drawing.

NEW SITE BUILD

T-MOBILE SITE NAME: FALCON MIDDLE SCHOOL

VERTICAL BRIDGE SITE NAME: FALCON MIDDLE SCHOOL

T-MOBILE SITE NUMBER: DN04672B

VERTICAL BRIDGE SITE NUMBER: US-CO-5054

SITE ADDRESS: 9755 TOWNER AVENUE **PEYTON, CO 80831**

SHEET NO:

LIGHTPOLE SITE TYPE:

AREA MAP 25 ELBERT SITE Judge Orr Rd ike National

THESE PLANS HAVE BEEN DEVELOPED FOR THE INSTALLATION OF AN UNMANNED TELECOMMUNICATION & PUBLIC UTILITY FACILITY, CONSISTING OF A NEW 100' LIGHTPOLE TO REPLACE EXISTING, SPACE FOR CARRIER EQUIPMENT & A UTILITY RACK WITHIN A FENCED COMPOUND (NO WATER OR SEWER IS REQUIRED), IN ACCORDANCE WITH THE SCOPE OF V PROVIDED BY VERTICAL BRIDGE & T-MOBILE. INFINIGY HAS INCOR THIS SCOPE OF WORK IN THE PLANS. THESE PLANS ARE NOT FO CONSTRUCTION UNLESS ACCOMPANIED BY A PASSING STRUCTURAL STABILITY ANALYSIS PREPARED BY A LICENSED STRUCTURAL ENGIN STRUCTURAL ANALYSIS MUST INCLUDE BOTH TOWER AND MOUNT.

PROJECT DESCRIPTION

-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 STA SLEEVE & (2) NEW COVPs ON NEW 10'x12' STEEL EQUIPMEN PLATFORM WITHIN 20'x20' LEASE AREA
- INSTALL (1) NEW GPS UNIT WITH (1) NEW 1/2" COAX CABLE
- INSTALL NEW ICE BRIDGE
- INSTALL (2) NEW UNDERGROUND CONDUITS
- INSTALL (1) NEW DOGHOUSE

WATER	T-1	TITLE SHEET & PROJECT DATA	0
WORK			
RPORATED [SP-1	T-MOBILE SPECIFICATIONS	0
OR L			
NEER.	LS1	LAND SURVEY	2
	LS2	LAND SURVEY	2
	LS3	LAND SURVEY	2
[LS4	LAND SURVEY	2
۲ <u>ا</u>			
	A-1	OVERALL SITE PLAN (PROPOSED)	0
	A-2	ENLARGED SITE PLAN (EXISTING)	0
Ī	A-3	ENLARGED SITE PLAN (PROPOSED)	0
ACKED	A-4	STAKING PLAN	0
NT }	A-5	PROPOSED TOWER ELEVATION	0
ľ	A-6	ANTENNA LAYOUT & LOADING CHART	0
፤	A-7	EQUIPMENT & MOUNTING DETAILS	0
ľ	A-8	ANTENNA SPECIFICATIONS	0
ŀ	A-9	EQUIPMENT LAYOUT & DETAILS	0
	A-10	EQUIPMENT & MOUNTING DETAILS	0
ľ	A-11	PLUMBING DIAGRAM	0
ľ	A-12	FENCE DETAILS	0
	A-13	CIVIL DETAILS	0
1			
ŀ	E-1	COMPOUND UTILITY LAYOUT	0
ŀ	E-2	EQUIPMENT UTILITY LAYOUT	0
RK	E-3	ELECTRICAL DETAILS	0
ŀ	E-4	UTILITY RACK DETAIL	0
ŀ			- + -
ŀ	G-1	COMPOUND GROUNDING PLANS	o
ŀ	G-2	GROUNDING PLANS	0
ŀ	G-3	GROUNDING DETAILS	10
ŀ	G-4	GROUNDING DETAILS	10
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DRAWING INDEX

SHEET TITLE

the solutions are endless

7301 Federal Blvd, Suite 301 Fax # (303) 242-8636

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



REV

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ı	REVISIONS:			
ı	DESCRIPTION	DATE	BY	RE\
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ı	ISSUED FOR CONSTRUCTION	10/17/16	CKE	0
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FALCON MIDDLE SCHOOL

DN04672B

VERTICAL BRIDGE SITE #: -

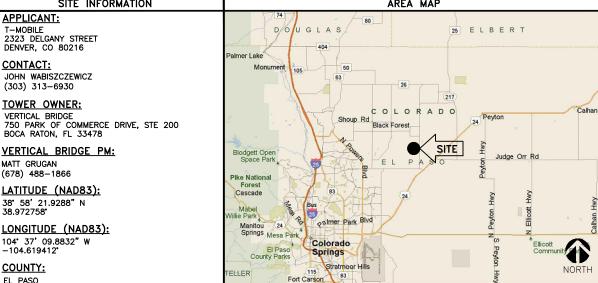
US-CO-5054

SITE ADDRESS: =

9755 TOWNER AVENUE PEYTON, CO 80831

TITLE SHEET & PROJECT DATA

T-1



LOCATION MAP

Londonderry Dr SITE Stapleton Dr

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.

APPLICABLE CODES

- 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 CODE LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES

Know what's below. Call before you dig.

ELECTRICAL NOTES:

WORK INCLUDED

- 1. INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, PLANT SERVICES AND ADMINISTRATIVE TASKS 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 WINGS 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. LEXISTING BUILDING EQUIPMENT IS NOTICED 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.
- PERFORMANCE 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 INECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES. WHERE SUCH WORK IS NECESSARY, HOWEVER, PATCH AND 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

- INVO AND FAICHING.

 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
- 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

TO BE INSTALLED IN LIQUID-TIGHT FLEXIBLE METAL CONDUIT.

K ALL EXTERIOR MOUNTING HARDWARE TO BE GALVANIZED STEEL. COORDINATE WITH BUILDING ENGINEER PRIOR TO

TRADES TO DETERMINE THE EXACT LOCATIONS AND

- 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. B. 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 CIRCUITS:

LENGTH (FT.)	HOME RUN WIRE SIZ
0 TO 50	NO. 12
51 TO 100	NO. 10
101 TO 150	NO. 8
VOLTAGE DROP IS NOT TO	FXCFFD 3%

- 9. 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.

CLEANUP

- 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

- LICELE DOCUMENTS AND COURDINATION

 1. GENERAL CAPPENTRY, 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 NUMBERS 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 3
 DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE, INDICATING A TIME BAR FOR FACH MAJOR CATEGORY OR LINIT 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.
- THE OWNER SHALL BE NAMED AS AN ADDITIONAL INSURED ON
- 3. CONTRACTOR MUST PROVIDE PROOF OF INSURANCE.

GENERAL NOTES:

INTENT

AGL

BTS

CAB CLG

CONC

CONT

EQUIP

EGB

GALV

GRND

MECH

MGR

NTS OC OPP

(P) PCS PPC SF

SIM

STL TOC TOM

VIF

UON

DIA OR

APPROX

1. THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS ACCOMPANYING THEM DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED 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
- 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

ABBREVIATIONS

ADJUSTARI F

APPROXIMATE

CABINET

CFILING

CONCRETE

DIAMETER

DRAWING

ELECTRICAL

EQUIPMENT

EQUIPMENT GROUND BAR

GENERAL CONTRACTOR

ELEVATION

EACH

FOUAL

FXISTING

EXTERIOR

GAUGE

GROUND

MAXIMLIM

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

ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.

PLANS PREPARED FOR:

Denver, CO 80216

PLANS PREPARED BY:

FROM ZERO TO INFINIGY

Fax # (303) 242-8636

JOB NUMBER 404-048

the solutions are endless 7301 Federal Blvd. Suite 301 Westminster, CO 80030 Office # (303) 219-1178

MI A PARTNER



Suite 200

Boca Raton, FL 33487

Office # (561) 948-6367

ENGINEERING LICENSE:



DRAWING NOTICE:

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REVISIONS:			
DESCRIPTION	DATE	BY	RE
ISSUED FOR CONSTRUCTION	10/17/16	CKE	0

■ VERTICAL BRIDGE SITE NAME: ■ FALCON MIDDLE SCHOOL

DN04672B

US-CO-5054

T-MOBILE SITE #: =

■ VERTICAL BRIDGE SITE #: ■

SITE ADDRESS: =

9755 TOWNER AVENUE PEYTON, CO 80831

SHEET DESCRIPTION:

Γ-MOBILE SPECIFICATIONS

SP-1

TOPOGRAPHIC SURVEY VERTICAL BRIDGE SITE NO. US-CO-5054 SITUATED IN THE SOUTHWEST QUARTER OF SECTION 25, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. COUNTY OF EL PASO, STATE OF COLORADO

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.: 23253588 for legal descriptions and

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

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. 1606-004 For and on behalf of Daley Land Surveying, Inc. 35597 Separate Co. 80134 Robert Daley, PLS 35597

S OF BEARINGS:
The bearings shown on this survey are referenced to the south line of the Southwest Quarter of Section 25, Township 12 South, Range 65 West, assumed to bear South 89'04'37" West, a distance of 2627.51 feet, monumented as shown hereon.

COORDINATE SYSTEM AND DATUM;
Horizontal coordinates are referenced to NADB3, Vertical datum is NAVDB8 and originates from the local C.O.R.S. network, utilizing the Geoid 12A model.

UTILITIES:

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 provided by others.

LEGAL DESCRIPTION PARENT TRACT:

Per Commitment No. 23253588 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:

The following Real Property situate in the County of El Paso and State of Colorado, to-wit:

That portion of the Southwest Quarter of Section 25, in Township 12 South, Range 65 West of the 6th P.M.: Beginning at a point in said Southwest Quarter which point lies North 78'05'25" West, said bearing and all others in this description are on the Colorado Coordinate System — Central Zone, a distance of 2,785.22 feet from the Southeast corner of Section 25; thence South 90' West, a distance of 1,563.72 feet; thence North 19'55'32" East, a distance of 1,398.28 feet; thence North 19'55'32" East, a distance of 1,087.19 feet; thence South 00' East, a distance of 1,1314.57 feet to the point of beginning and containing 40.0 acres more or less.

LESS AND EXCEPT that portion of property conveyed to El Paso County, an Colorado organized County from El Paso School District No. 49, F/K/A Consolidated School District No. 49 by Correction Deed dated July 11, 2003 and recorded July 14, 2003 in Instrument No. 203160367.

AND BEING a portion of the same property conveyed to Consolidated School District No. 49 from Latigo Ranch, a limited partnership by Warranty Deed dated February 06, 1975 and recorded February 11, 1975 in Deed Book 2732, Page 860.

EXCEPTIONS LISTED IN TITLE COMMITMENT:

EXCEPTIONS LISTED IN TITLE COMMITMENT:

Item 1. Not survey related

Item 2. Not survey related

Item 3. Not survey related

Item 4. Not survey related

Item 5. Shown hereon, if any

Item 6. Not survey related

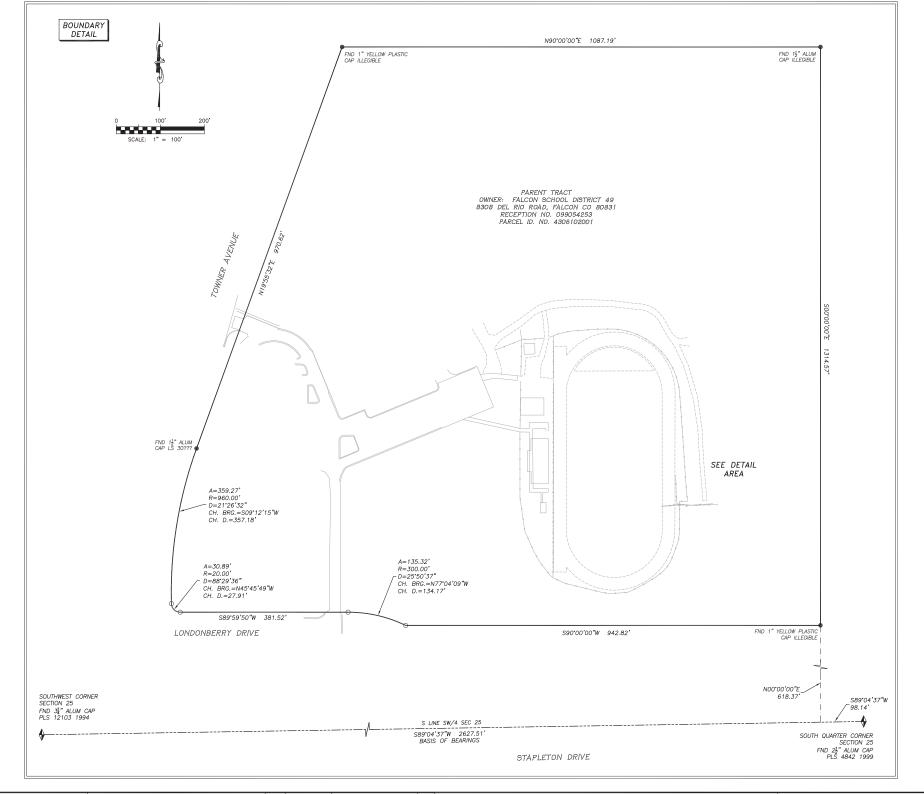
Item 7. Not survey related

Item 8. Not plottable per document description

Item 9. Not survey related

Item 10. Not plottable per document description

Item 11. Not survey related







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Rev:	Date:	Description:	Ву:	
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2	8/15/16	Easements/Lease	AV	SIILA
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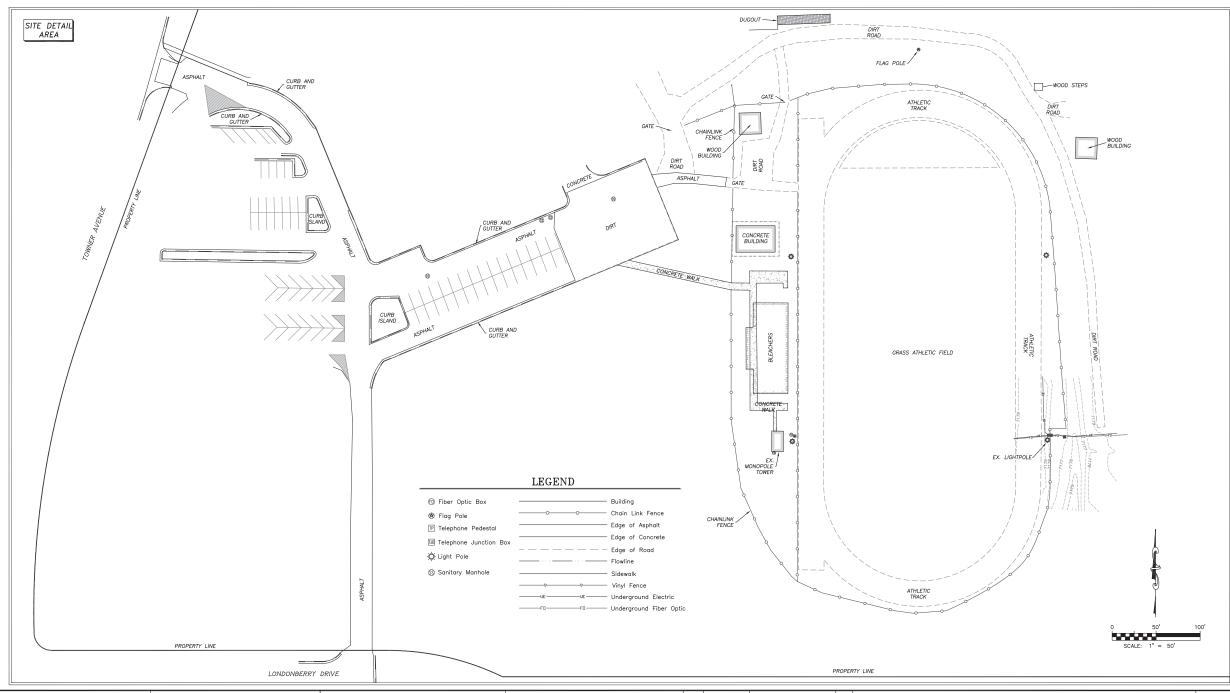
	PROJECT INFORMATION:
NAME:	FALCON MIDDLE SCHOOL

SITE ADDRESS: 9755 TOWNER AVENUE PEYTON, COLORADO 80831 VERTICAL BRIDGE SITE NUMBER: US-CO-5054

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



TOPOGRAPHIC SURVEY VERTICAL BRIDGE SITE NO. US-CO-5052 SITUATED IN THE SOUTHWEST QUARTER OF SECTION 25, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. COUNTY OF EL PASO, STATE OF COLORADO









Rev:	Date:	Description:	Ву:	
1	8/8/16	Survey	AV	S
2	8/15/16	Easements/Lease	AV	S
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PROJECT INFORMATION:

SITE NAME: FALCON MIDDLE SCHOOL

SITE ADDRESS: 9755 TOWNER AVENUE
PEYTON, COLORADO 80831

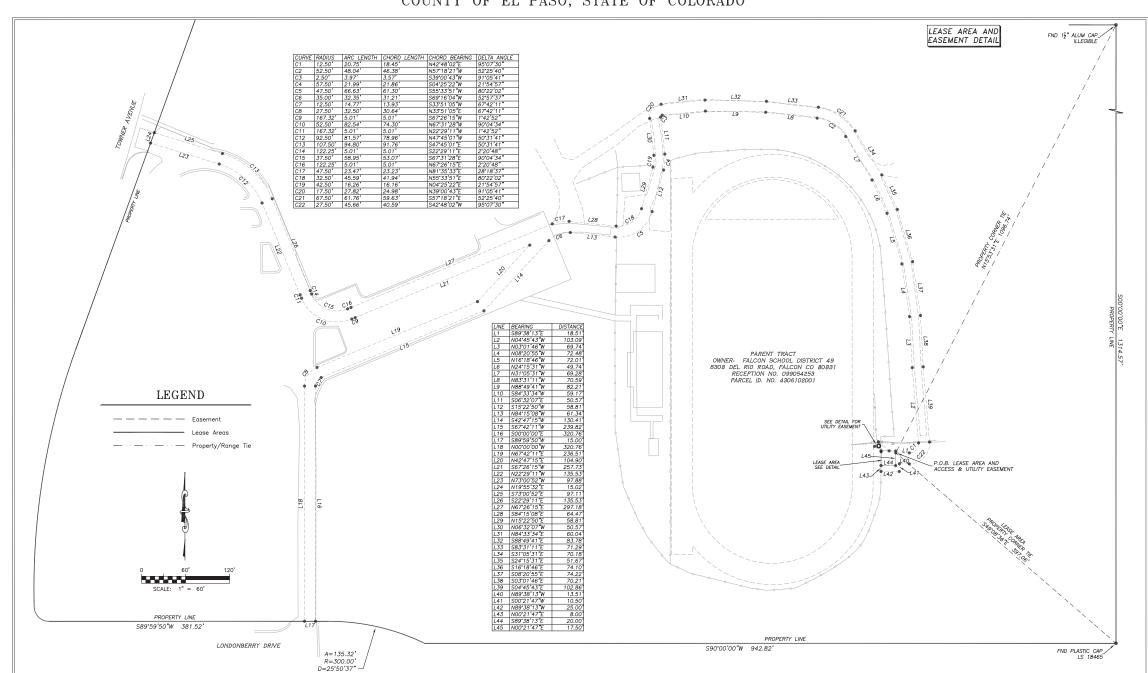
VERTICAL BRIDGE SITE NUMBER: US-CO-5054

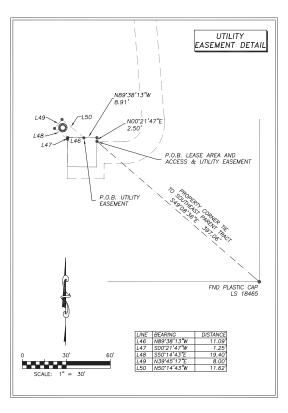
DRAWN BY:	CHK BY:	APV BY:
AV	RD	RD

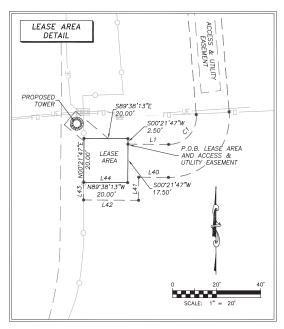
LAND SURVEY
Sheet Number:

TOPOGRAPHIC SURVEY VERTICAL BRIDGE SITE NO. US-CO-5052 SITUATED IN THE SOUTHWEST QUARTER OF SECTION 25,

TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. COUNTY OF EL PASO, STATE OF COLORADO













Rev:	Date:	Description:	Ву:	
1	8/8/16	Survey	AV	S
2	8/15/16	Easements/Lease	AV	3
				٧

PROJECT	INFORMATION:

SITE NAME: FALCON MIDDLE SCHOOL
SITE ADDRESS: 9755 TOWNER AVENUE
PEYTON, COLORADO 80831
VERTICAL BRIDGE SITE NUMBER: US-CO-5054

	CAVVIN DT.	CHK BY:	APV BY:
	AV	RD	RD

LAND SURVEY
Sheet Number:

LS3

TOPOGRAPHIC SURVEY VERTICAL BRIDGE SITE NO. US-CO-5052 SITUATED IN THE SOUTHWEST QUARTER OF SECTION 25, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M. COUNTY OF EL PASO, STATE OF COLORADO

ACCESS AND UTILITY FASEMENT — 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 (Parent Tract), located in the Southwest Quarter of Section 25, Township 12 South, Range 65 West of the 6th Principal Meridian, County of El Paso, State of Colorado, more particularly described as follows: Seginning at a point, also being the Point of beginning of the hereinofter described Lease Area, whence the southeast corner of soid Parent Tract, bears South 49/08/36" East, a distance of 397.08 feet;

THENCE South 99/38/13" East, delistance of 18.1 feet;

THENCE South 09/38/13" East, delistance of 18.1 feet;

THENCE North 04/34/3" West, a distance of 18.3 feet;

THENCE North 04/34/3" West, a distance of 18.0.9 feet;

THENCE North 07/31/46" West, a distance of 19.3 feet;

THENCE North 10/31/46" West, a distance of 19.3 feet;

THENCE North 10/31/46" West, a distance of 19.3 feet;

THENCE North 10/31/46" West, a distance of 19.3 feet;

THENCE North 10/31/46" West, a distance of 19.3 feet;

THENCE North 10/31/46" West, a distance of 19.3 feet;

THENCE North 10/31/46" West, a distance of 19.3 feet;

THENCE North 10/31/46" West, a distance of 19.3 feet;

THENCE North 10/31/46" West, a distance of 19.3 feet;

THENCE North 10/31/46" West, a distance of 19.3 feet;

THENCE North 28/31/41" West, a distance of 19.3 feet;

THENCE North 28/31/41" West, a distance of 19.3 feet;

THENCE North 28/31/41" West, a distance of 19.3 feet;

THENCE North 28/31/41" West, a distance of 19.3 feet;

THENCE North 18/31/41" West, a distance of 19.3 feet;

THENCE North 18/31/41" West, a distance of 20.5 feet;

THENCE North 18/31/41" West, a distance of 20.5 feet;

THENCE North 18/31/41" West, a distance of 20.5 feet;

THENCE North 18/31/41" West, a distance of 20.5 feet;

THENCE North 18/31/41" West, a distance of 20.5 feet;

THENCE North 18/31/41" West, a distance of 20.5 feet;

THENCE North 18/31/41" West, a distance of 20.5 feet;

THENCE North 18/31/41" West, a distance of 20.5 feet;

THENCE North 18/31/41" West, a distance 19/31/41" West, and a chord length of 19/30 feet;

THENCE North 18/31/41" West, a distance 19/31/41" West, and a chord length of 19/30 feet;

THENCE North 18/31/41" West, a distance 19/31/41" West, and a chord length of 31/20 feet;

THENCE South 18/31/41" West, a distance 19/31/41" West, and a chord length of 31/20 f Beginning at a point, also being the Point of beginning of the hereinafter described Lease Area, whence the southeast corner of said Parent Tract, bears South 49'08'36" East, a distance of 397.06 feet;

ACCESS AND UTILITY EASEMENT - PROPOSED (CONTIUNED):

continued

THENCE North 84'33'34" East, a distance of 60.04 feet;
THENCE South 88'49'41" East, a distance of 83.78 feet;
THENCE South 88'49'41" East, a distance of 71.29 feet;
THENCE along a curve the right, an arc length of 61.76 feet, said curve having a radius of 67.50 feet, a delta angle of 52'25'40", a chord bearing of South 57'18'21" East, and a chord length of 59.63 feet;
THENCE South 31'10'53" East, a distance of 70.18 feet;
THENCE South 24'15'31" East, a distance of 70.18 feet;
THENCE South 16'18'46" East, a distance of 74.10 feet;
THENCE South 08'20'55" East, a distance of 74.22 feet;
THENCE South 03'30'145" East, a distance of 70.21 feet;
THENCE South 04'45'8" East, a distance of 70.21 feet;
THENCE obuth 04'45'30", a chord steance of 70.28 feet;
THENCE obuth 04'30'30", a chord bearing of \$0 south 42'48'02" West, and a chord length of 40.59 feet;
THENCE North 89'38'13" West, a distance of 13.51 feet;
THENCE North 09'38'13" West, a distance of 10.50 feet;
THENCE North 89'38'13" West, a distance of 10.50 feet;
THENCE North 89'38'13" East, a distance of 10.50 feet;
THENCE North 89'38'13" East, a distance of 20.00 feet;
THENCE North 09'21'47" East, a distance of 20.00 feet;
THENCE South 00'21'47" East, a distance of 20.00 feet;
THENCE South 00'21'47" East, a distance of 10.50 feet;
THENCE South 00'21'47" East, a distance of 20.00 feet;
THENCE South 00'21'47" East, a distance of 20.00 feet;
THENCE South 00'21'47" East, a distance of 10.50 feet
THENCE South 00'21'47" East, a distance of 10.50 feet;
THENCE South 00'21'47" East, a distance of 10.50 feet;
THENCE South 00'21'47" East, a distance of 10.50 feet;
THENCE South 00'21'47" East, a distance of 10.50 feet;
THENCE South 00'21'47" East, a distance of 10.50 feet;
THENCE South 89'38'13" East, a distance of 20.00 feet;
THENCE South 89'38'13" East, a distance of 10.50 feet to the Point of Beginning, whence the northeast corner of soil Parent Tract, bears North 15'53'31" East, a distance of 10.50 feet

Containing 36974 Square Feet, or 0.849 Acres, more or less.

LEASE AREA LEGAL DESCRIPTION - PROPOSED:

LEASE, AREA LEGAL DESCRIPTION — PROFUSED.

A parcel of land within that parcel of land described at Reception No. 099054253 of the Public Records of El Paso County (Parent Tract), located in the Southwest Quarter of Section 25, Township 12 South, Range 65 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 south line of the Southwest Quarter Section 25, Township 12 South, Range 65 West, assumed to bear South 89°04'37" West, a distance of 2627.51 feet, monumented as shown hereon

Beginning at a point, also being the Point of beginning of the hereinbefore described Access and Utility Easement, whence the southeast corner of said Parent Tract, bears South 49'08'36" East, a distance of 397.06 feet;

THENCE South 00°21'47" West, a distance of 17.50 feet, THENCE North 89°38'13" West, a distance of 20.00 feet: THENCE North 00'21'47" East, a distance of 20.00 feet; THENCE South 89'38'13" East, a distance of 20.00 feet; THENCE South 00°21'47" West, a distance of 2.50 feet to the Point of Beginning.

Containing 400 Square Feet, or 0.009 Acres, more or less.

A strip of land over and across that parcel of land described at Reception No. 099054253 of the Public Records of El Paso County (Parent Tract), located in the Southwest Quarter of Section 25, Township 12 South, Range 65 West of the 6th Principal Meridian, County of El Paso, State of Colorado, more particularly describa as follows:

For the purposes of this description the bearings are referenced to the south line of the Southwest Quarter of Section 25, Township 12 South, Range 65 West, assumed to bear South 89°04'37" West, a distance of

Commencing at a point, also being the Point of beginning of the hereinbefore described Lease Area and Access and Utility Easement, whence the southeast corner of said Parent Tract, bears South 49'08'36" East, a distance of 397.06

THENCE along said Lease Area and Access and Utility Easement the following four (4) courses:

- North 00"21"47" East, a distance of 2.50 feet;
 North 89"38"13" West, a distance of 8.91 feet to the Point of Beginning;
- continuing North 89°38'13" West, a distance of 11.09 feet;
- 4. South 00°21'47" West, a distance of 1.25 feet;

THENCE North 50°14'43" West, a distance of 11.62 feet, THENCE North 39°45'17" East, a distance of 8.00 feet;

THENCE South 50°14'43" East, a distance of 19.40 feet to the Point of Beginning.

Containing 117 Square Feet, or 0.003 Acres, more or less.





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Rev:	Date:	Description:	Ву:
1	8/8/16	Survey	AV
2	8/18/16	Easements/Lease	ΑV

Ву:		PROJECT INFORMA	TION:		
AV	SITE NAME:	FALCON MIDDLE SCHOOL			
AV	SITE ADDRESS:	9755 TOWNER AVENUE PEYTON, COLORADO 80831			
	VERTICAL BRIDG	GE SITE NUMBER: US-CO-5054			
			DRAWN BY:	CHK BY:	APV BY:

ΑV

RD

V BY:	1.54
SD	

LAND SURVEY

TOWER & FOUNDATION DESIGNS NOT AVAILABLE AT TIME OF ISSUANCE OF THESE PLANS. CONTRACTOR TO REFER TO TOWER & FOUNDATION DESIGNS PRIOR TO CONSTRUCTION.

LAND SURVEYING, DATED 08/18/16.

INFORMATION CONTAINED WITHIN DRAWINGS IS BASED ON PROVIDED INFORMATION AND A DESIGN WALK BY INFINIGY, DATED 06/20/16, AND A TOPOGRAPHIC SURVEY BY DALEY

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 404-048

MLA PARTNER:

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

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REVISIONS:			
DESCRIPTION	DATE	BY	RE'
ISSUED FOR CONSTRUCTION	10/17/16	CKE	0

■ VERTICAL BRIDGE SITE NAME: ■ FALCON MIDDLE SCHOOL

T-MOBILE SITE #: =

DN04672B

VERTICAL BRIDGE SITE #:

US-CO-5054

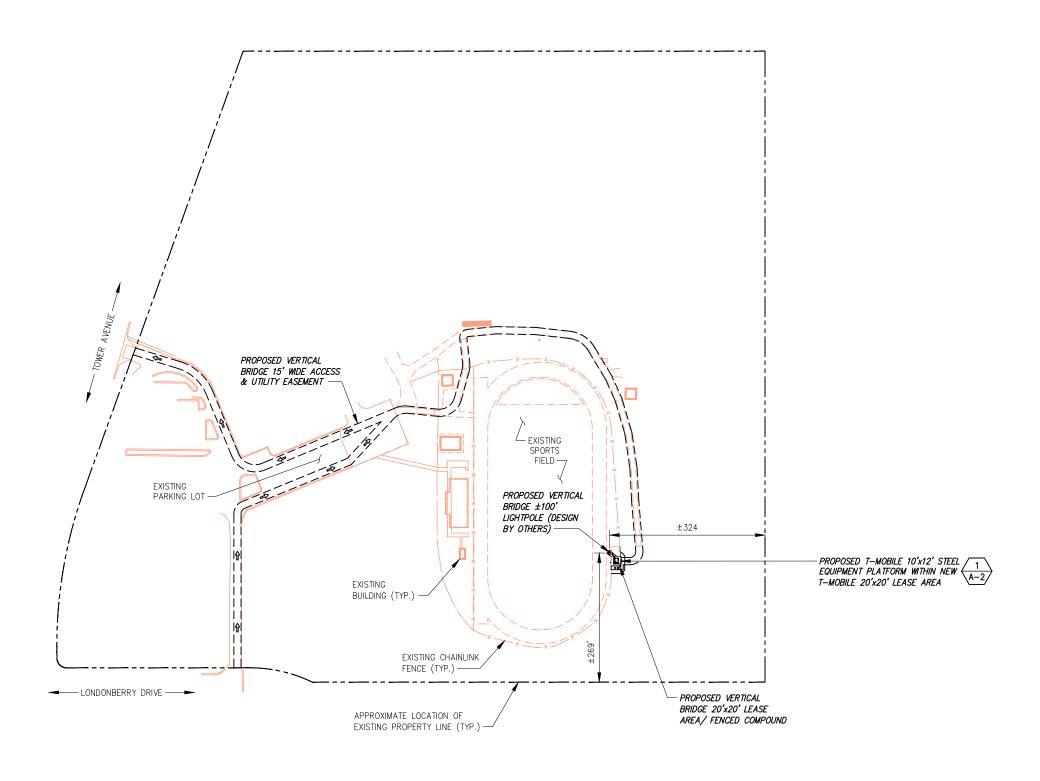
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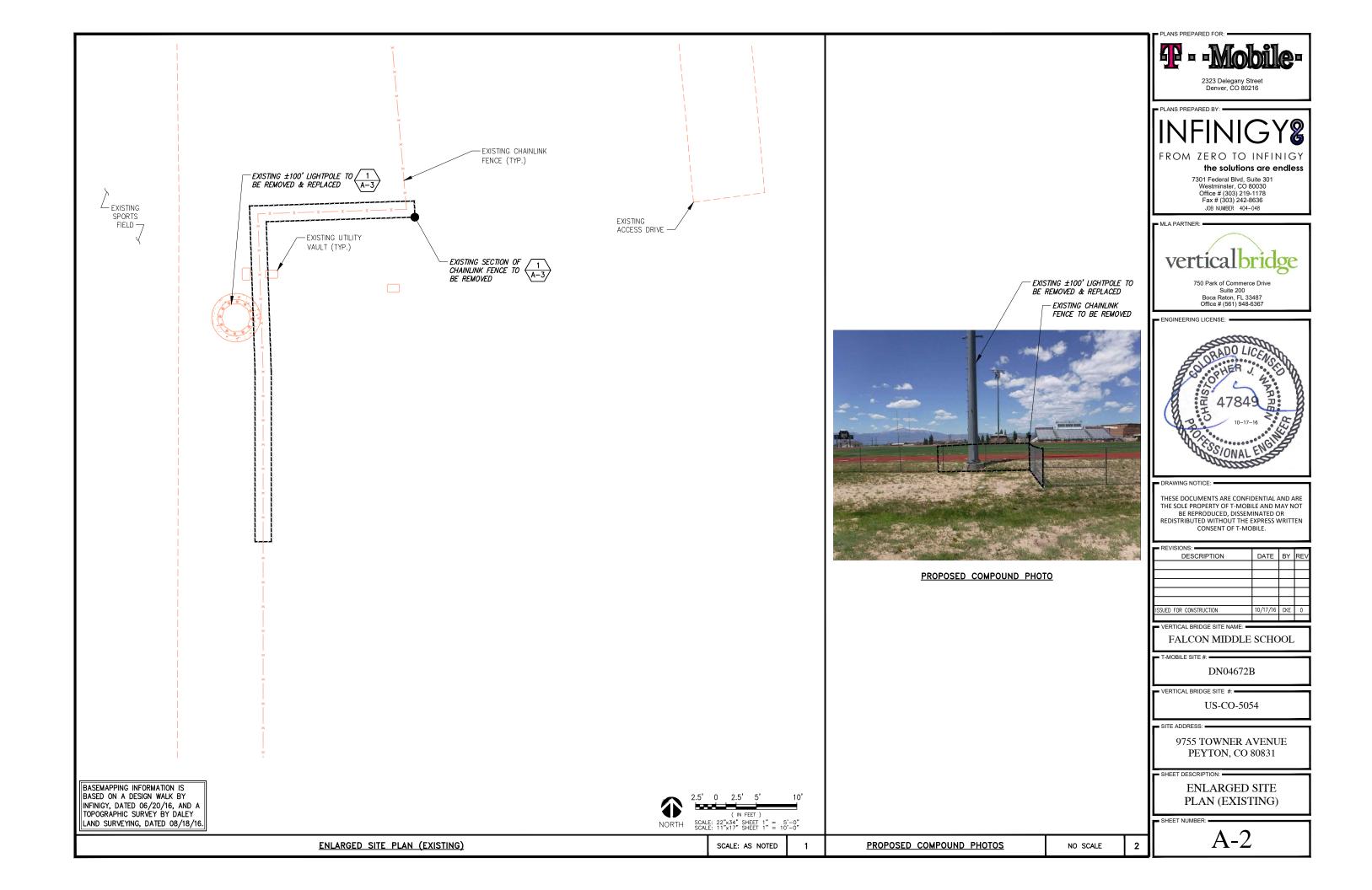
9755 TOWNER AVENUE PEYTON, CO 80831

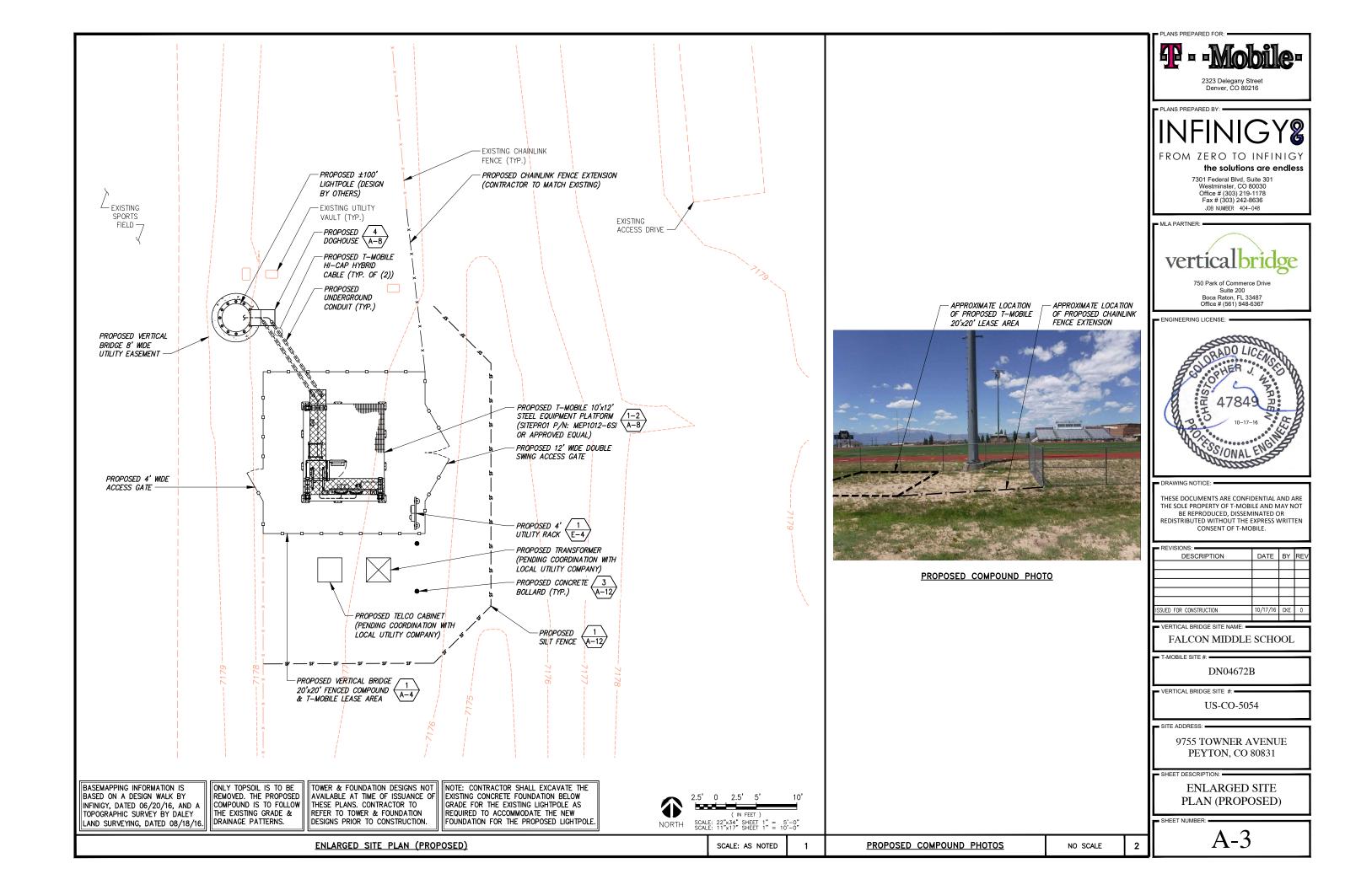
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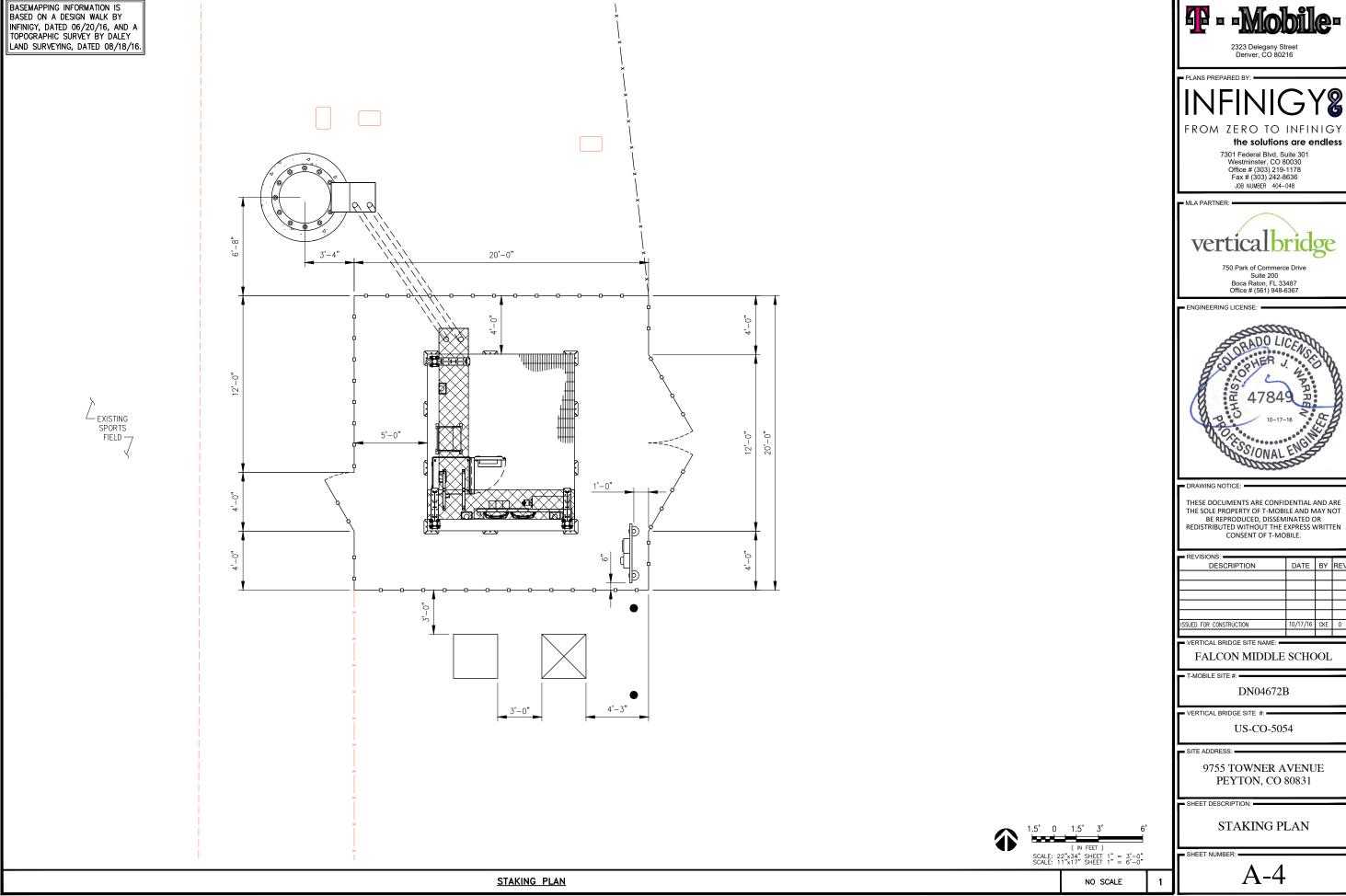
OVERALL SITE PLAN

SHEET NUMBER:













THESE DOCUMENTS ARE CONFIDENTIAL AND ARE

TOWER & FOUNDATION DESIGNS NOT AVAILABLE AT TIME OF ISSUANCE OF THESE PLANS. CONTRACTOR TO REFER TO TOWER & FOUNDATION DESIGNS PRIOR TO CONSTRUCTION.

INFINIGY ENGINEERING HAS NOT EVALUATED THE TOWER OR MOUNT FOR THIS SITE AND ASSUMES NO RESPONSIBILITY FOR ITS STRUCTURAL INTEGRITY. REFER TO STRUCTURAL ANALYSIS BY OTHERS PRIOR TO ANY CONSTRUCTION.



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 404-048

MLA PARTNER:



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

■ ENGINEERING LICENSE:



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REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF T-MOBILE.

REVISIONS:			
DESCRIPTION	DATE	BY	REV
SSUED FOR CONSTRUCTION	10/17/16	CKE	0

■ VERTICAL BRIDGE SITE NAME: ■ FALCON MIDDLE SCHOOL

T-MOBILE SITE #: =

DN04672B

VERTICAL BRIDGE SITE #:

US-CO-5054

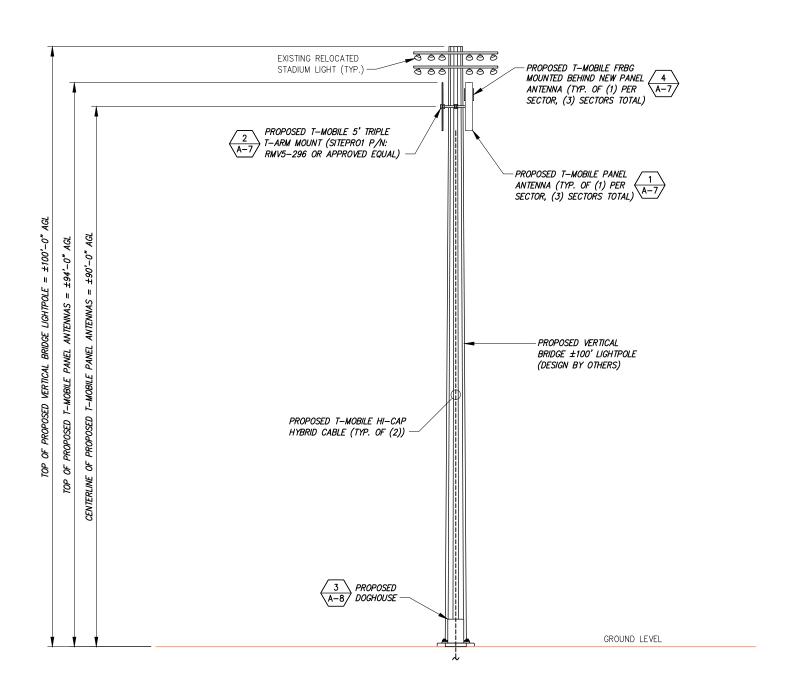
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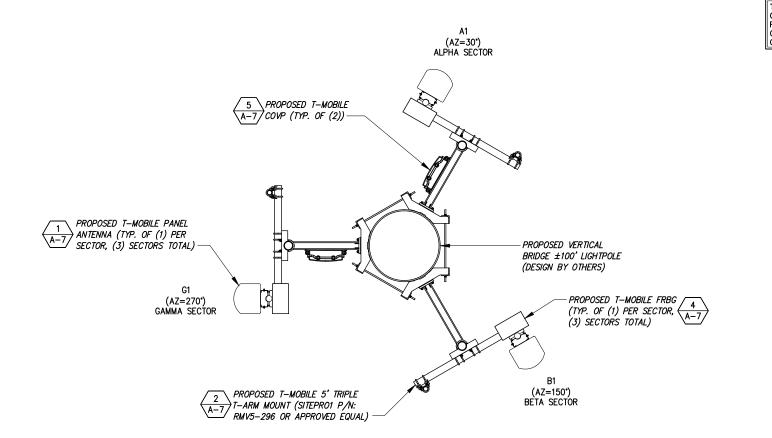
9755 TOWNER AVENUE PEYTON, CO 80831

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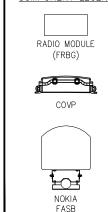
PROPOSED TOWER **ELEVATION**

SHEET NUMBER:





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



ANTENNA & COMPONENT LEGEND

PLANS PREPARED BY:

2323 Delegany Street Denver, CO 80216

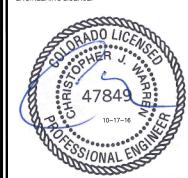
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7301 Federal Blvd, Suite 301 Westminster, CO 80030 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER 404-048



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

■ ENGINEERING LICENSE:



NORTH = 0°

PROPOSED ANTENNA LAYOUT

NO SCALE

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REVISIONS:			
DESCRIPTION	DATE	BY	RE
ISSUED FOR CONSTRUCTION	10/17/16	CKE	0

■ VERTICAL BRIDGE SITE NAME: ■ FALCON MIDDLE SCHOOL

T-MOBILE SITE #: =

DN04672B

VERTICAL BRIDGE SITE #:

US-CO-5054

SITE ADDRESS:

9755 TOWNER AVENUE PEYTON, CO 80831

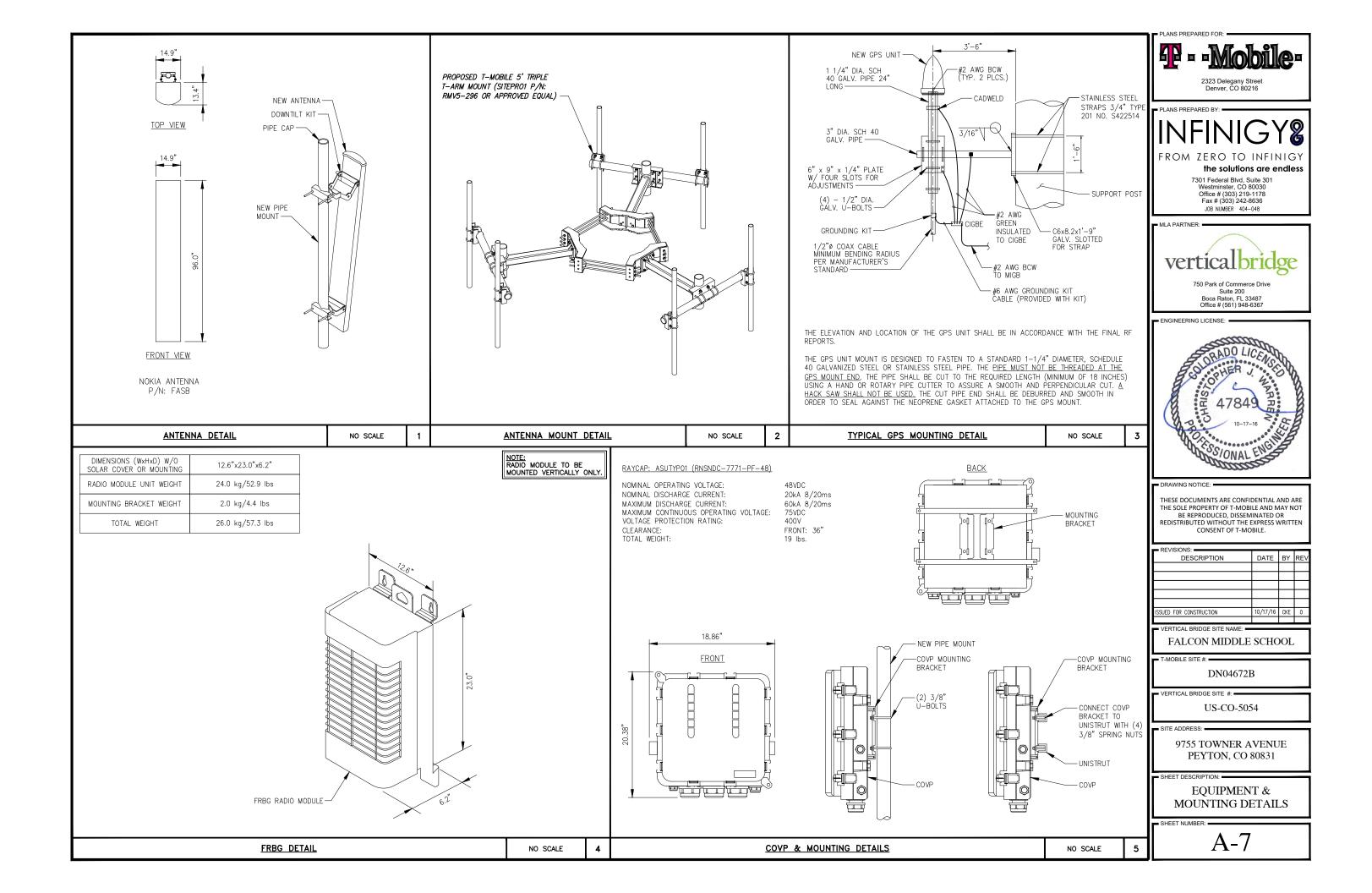
SHEET DESCRIPTION:

ANTENNA LAYOUT & LOADING CHART

A-6

							SITE	LOADING CHART					
SECTOR	POSITION	SECTOR	TECHNOLOGY	ANTENNA MODEL #	VENDOR	QTY.	QTY.	TMA	AZIMUTH	DOWNTILT	RAD CENTER	FEED LINE TYPE/LENGTH	
SECTOR	1 03/110/4	COLOR	TEGITIVOEGGT	700721007 100022	VENDOR	(REMOVED)	(NEW)	(NEW)	(QTY/MODEL)	71211110 111	MECHANICAL ELECTRICAL	TOTAL SERVICE	TEED EINE THE EYEENOM
ALPHA	A1	RED	LTE 700/LTE AWS LTE 1900/UMTS AWS	FASB RAS	NOKIA		1		30°	0 2	±90' AGL	PROPOSED (2) HI—CAP HYBRID CABLES $LENGTH = \pm 175'$	
BETA	B1	BLUE	LTE 700/LTE AWS LTE 1900/UMTS AWS	FASB RAS	NOKIA		1		150°	0 2	±90' AGL	HYBRID CABLES SHARED WITH ABOVE	
GAMMA	G1	WHITE	LTE 700/LTE AWS LTE 1900/UMTS AWS	FASB RAS	NOKIA		1		270°	0 2	±90' AGL	HYBRID CABLES SHARED WITH ABOVE	

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







Preliminary Datasheet

Nokia FASB Antenna Specifications

- Three Cross Polarized Column Antenna (2 x High Band, 1 x Low Band)

 10-port antenna using 4.3-10 connectors for all antenna ports

 Independent electrical tilt for high and low bands.

General Specifications

Antenna type	XXXpol, Multiband
Operating Frequency bands	698 - 894 MHz (Xpol) 1695 - 2690 MHz (XXpol)

Electrical Specifications

	Low	Band	High Band 1			High Band 2	
Frequency Band, MHz	694-791	791-894	1695-1780	2095-2180	2300-2690	1850-1920	1930-2000
Gain, average [dBi]	16.0	16.2	17.3	18.0	18.1	17.4	17.6
Gain, Over All Tilts [dBi]	16.0 ± 0.4	16.2 ± 0.4	17.3 ± 0.4	18.0 ± 0.4	18.1 ± 0.4	17.4 ± 0.4	17.6 ± 0.4
Azimuth Beamwidth [°]	69 ± 4	67 ± 3	65 ± 4	63 ± 3	60 ± 4	63 ± 3	63 ± 3
Elevation Beamwidth [°]	10 ± 1	9 ± 1	6.0 ± 0.7	5.6 ± 0.5	5.5 ± 0.6	5.7 ± 0.5	5.7 ± 0.5
Electrical Downtilt [°]	2.	12		212	•	212	
USLS [dB]	>	17	> 16			> 17	
Front•to•Back Ratio, at 180°±30° [dB]	> 25		> 25			> 25	
Cross Polar Isolation [dB]	>	30	> 30		> 30		
Isolation, Intersystem [dB]	>	30	> 30			> 30	
VSWR / Return Loss [dB]	< 1.5	> 14	< 1.5 > 14			< 1.5 > 14	
Passive Intermodulation @(2x43dBm) [dBc]	< -150		< -150			< -150	
Input Power per Port, max [W] (CF= 8dB)	300		200			200	
Polarization [°]				± 45			
Impedance [Ohm]				50			

Mechanical Specifications

Radome Material	Fiberclass, UV resistant	
Colour	RAL 7047	
RF Connector Interface	4.3-10 Female, 10 pcs	
RF Connector Location	Bottom	
Lightning Protection	DC Ground	

Dimensions

Depth	13.4 in (340 mm)
Height	96 in (2440 mm)
Width	14.9 in (380 mm)
Weight, antenna assembly	207 lb (94 kg)

Remote Electrical Tilt (RET) Information

Protocol and RET interfaces	according to 3GPP/AISG 2.0 standards
RET Interface connectors	8-pin DIN Female / 8-pin DIN Male
RET Interface, quantity	Four DIN connectors, (1 pair for HB and one pair for LB)

Environmental Specifications

Environmental conditions for operation	ETSI EN 300 019-1-4 Class 4.1E
Environmental conditions for transportation	ETSI EN 300 019-1-2 Class 2.3
Environmental conditions for storage	ETSI EN 300 019-1-1 Class 1.2
Operational air temperature range	-40°C +50°C (with solar load 1120W/m²)
Earthquake	GR-63-CORE, Zone 4
Wind Loading, maximum at 200km/h wind,	Front: 1170N, Back: 950N, Side: 1230N
Wind Speed, maximum	200km/h steady wind, 67m/s wind gusts

Product Items Included

Full antenna, tilt brackets (upper and lower), jumper cables and related accessories





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T-MOBILE SITE #:

DN04672B

VERTICAL BRIDGE SITE #:

US-CO-5054

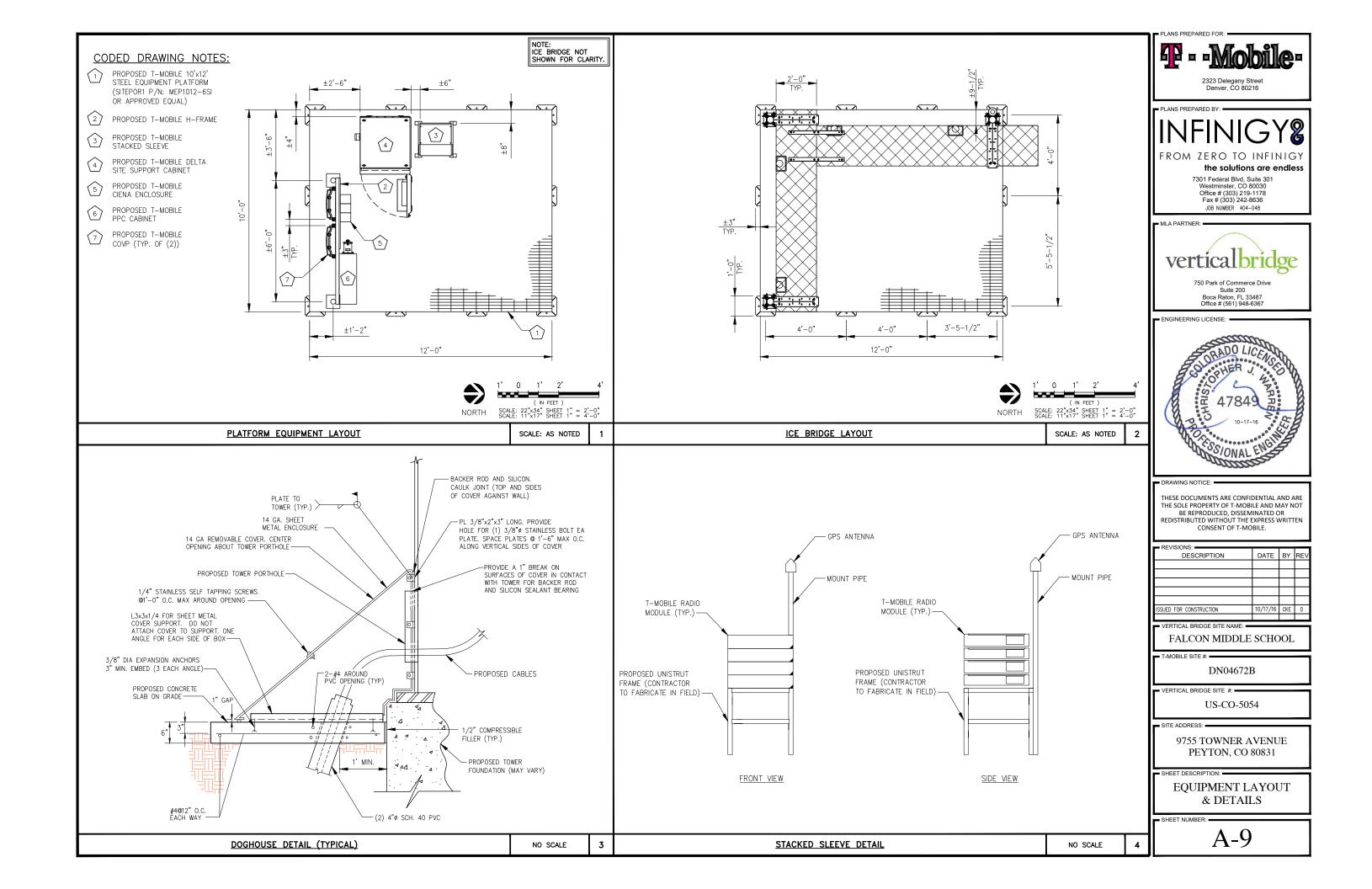
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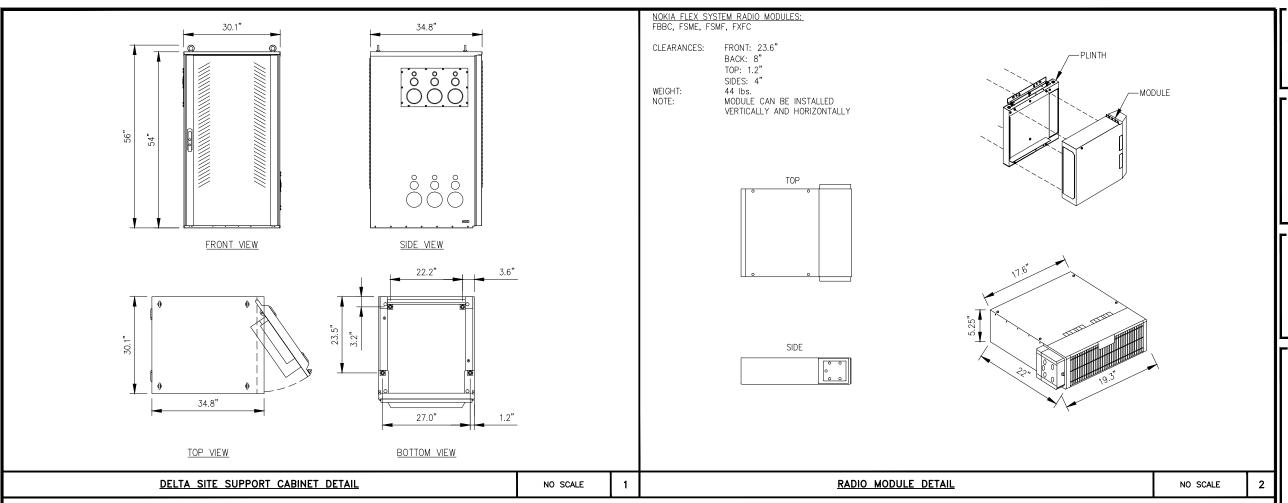
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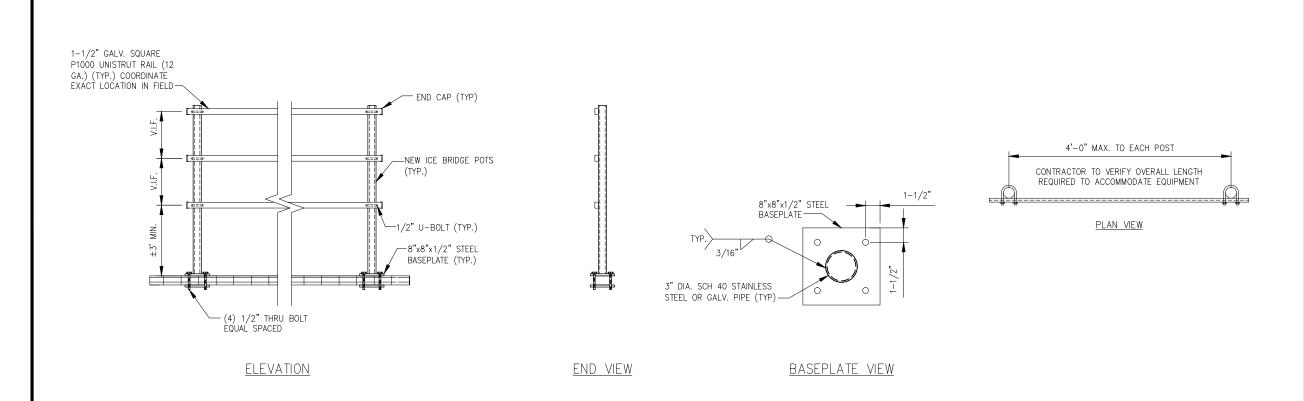
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ANTENNA SPECIFICATIONS

SHEET NUMBER:







TYPICAL H-FRAME FABRICATION DETAIL

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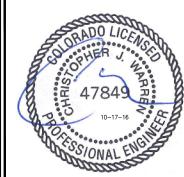
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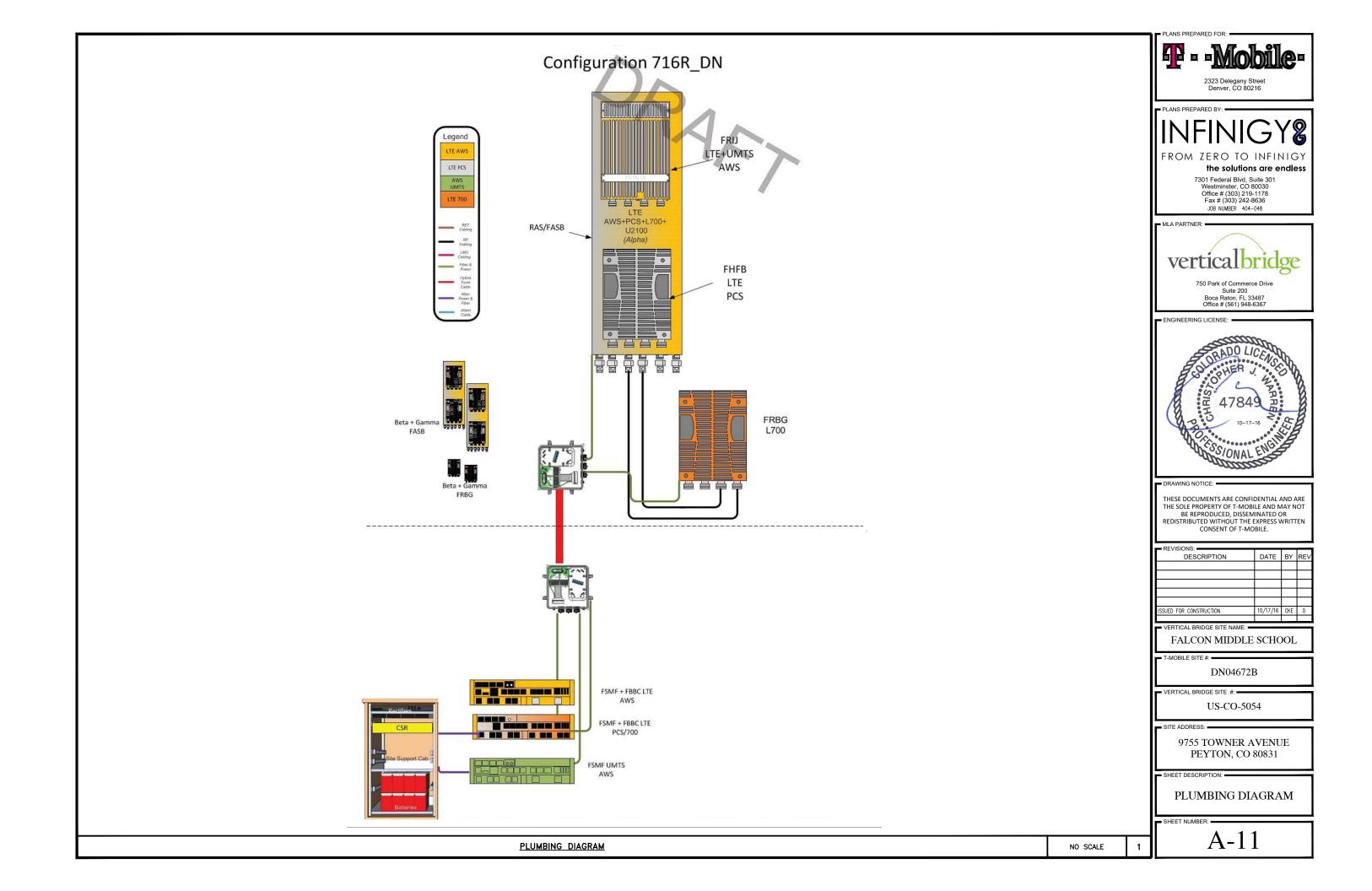
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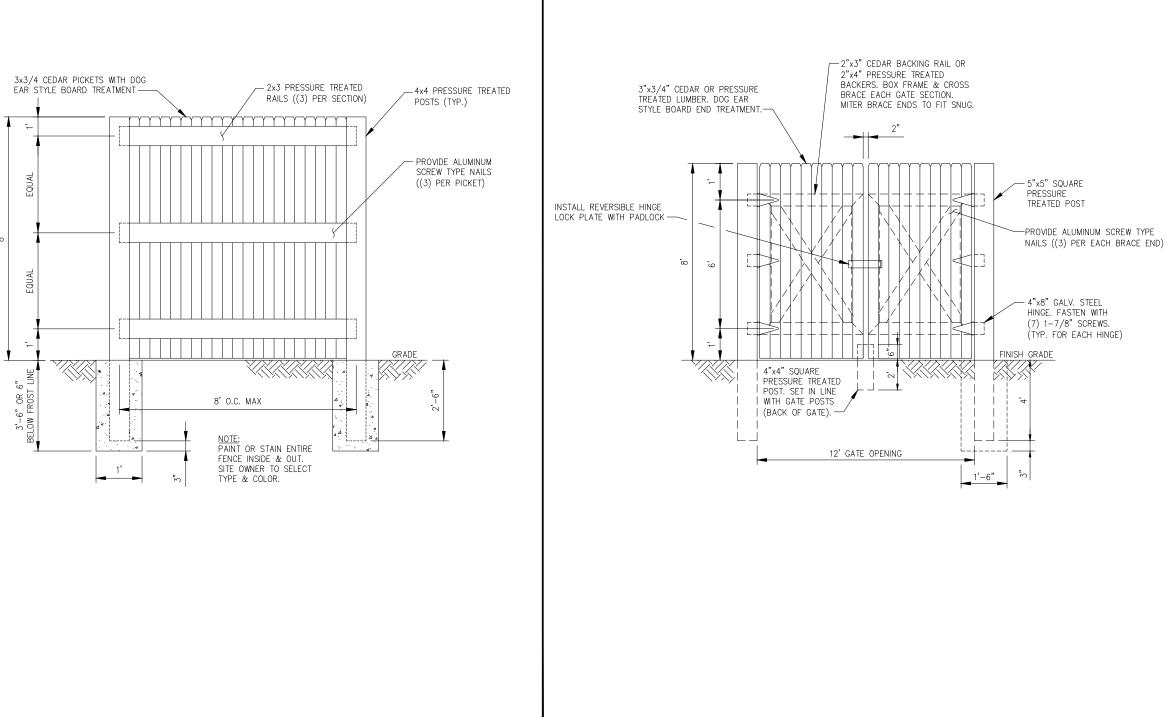
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EQUIPMENT & MOUNTING DETAILS

SHEET NUMBE

NO SCALE





TYPICAL WOODEN DOUBLE SWING ACCESS GATE DETAIL

NO SCALE

TYPICAL STOCKADE FENCE DETAIL

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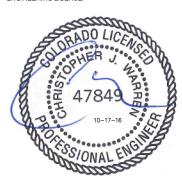
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SHEET DESCRIPTION:

FENCE DETAILS

SHEET NUMBER:

NO SCALE

WHERE REQUIRED COMMERCIAL TYPE C SILT FABRIC ON UPSTREAM SIDE OF FENCE - DIRECTION OF FLOW GROUNDLINE

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

BOLLARD DETAIL

- 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.

- 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 IS TO BE A TEMPORARY EROSION CONTROL DEVICE, AND SHOULD REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.

ROCK CONSTRUCTION ENTRANCE DETAIL

50' MIN - CONCRETE CAP -6"Ø SCH. 40 STEEL PIPE FILLED WITH LEAN CONCRETE - 1/2" EXPANSION FILLER & SEALANT TOTAL 용 유 -8" SUBBASE UNDER GRAVEL -CONCRETE BASE (3000 P.S.I. CONCRETE) AASHTO #1 ROCK, ± 8" DEEP WITH FROST LINE NOTES:

1. ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY

OFFICE OFFICE OFFICE OF ADDING ROCK A 1'-6" DIA. MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A 6" MIN. BELOW STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND FROST LINE (TYP) RETURNED TO THE CONSTRUCTION SITE.

2

SILT FENCE DETAIL

NO SCALE

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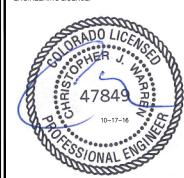
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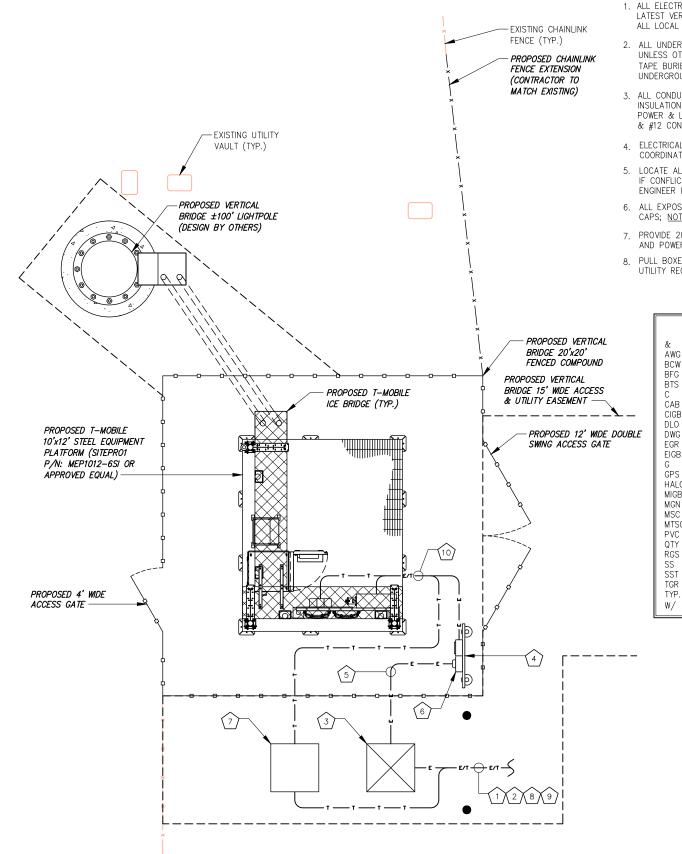
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UTILITY NOTES:

- 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.
- 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 ELECTRIC UTILITY.
- INCOMING ELECTRIC SERVICES SHALL BE IN CONFORMANCE WITH THE UTILITIES STANDARDS (LATEST FDITION).
- 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 BEND.
- CONDUIT RUNS SHALL HAVE A PULLBOX WITH A MAXIMUM SPACING OF 500 LINEAR FEFT.

CODED DRAWING NOTES:

- 1 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)
- 4 PROPOSED 4' WIDE UTILITY RACK/H-FRAME
- CONTRACTOR TO PROVIDE (1) 2" SCH 40 PVC CONDUIT FROM TRANSFORMER TO PROPOSED T-MOBILE METER & DISCONNECT (PENDING COORDINATION WITH LOCAL UTILITY COMPANY)
- (6) PROPOSED T-MOBILE METER & DISCONNECT
- 7) PROPOSED TELCO CABINET PROVIDED BY TELCO COMPANY (CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION.)
- 8 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 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)
- CONTRACTOR TO COORDINATE THE INSTALLATION OF RELOCATED STADIUM LIGHTS AS REQUIRED.



GENERAL ELECTRICAL NOTES:

- 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. 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 IMMEDIATELY.
- 6. ALL EXPOSED CONDUITS SHALL HAVE WEATHERPROOF CAPS; $\underline{\text{NOT}}$ 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.

ABBREVIATIONS:

AMERICAN WIRE GAUGE AWG BARE COPPER WIRE BELOW FINISH GRADE BARE TINNED STRANDED CONDUIT CAB CIGBE COAX ISOLATED GROUND BAR EXTERNAL DLO DIESEL LOCOMOTIVE CABLE DRAWING EXTERIOR GROUND RING EXTERIOR ISOLATED GROUND BAR GROUND GLOBAL POSITIONING SYSTEM HALO INTERIOR GROUND RING MAIN ISOLATED GROUND BAR MULTI-GROUNDED NEUTRAL MOBILE SWITCHING CENTER MTS0 MOBILE TELEPHONE SWITCHING OFFICE POLYVINYL CHLORIDE QUANTITY RIGID GALVANIZED STEEL STAINLESS STEEL SELE SUPPORT TOWER TOWER GROUND RING TYPICAL

ELECTRICAL SYMBOLS:

RECEPTACLE
BURIED POWER CONDUIT
T BURIED TELCO CONDUIT

M ELECTRICAL METER

INDICATES CODED NUMBER

SAFETY SWITCH

UTILITY POLE

0 1.5'

NORTH



INFINIGY**&**

1 ZERO TO INFINIGY
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T-MOBILE SITE #:

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VERTICAL BRIDGE SITE #: --

US-CO-5054

SITE ADDRESS:

9755 TOWNER AVENUE PEYTON, CO 80831

SHEET DESCRIPTION:

COMPOUND 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.

COMPOUND UTILITY LAYOUT

SCALE: AS NOTED

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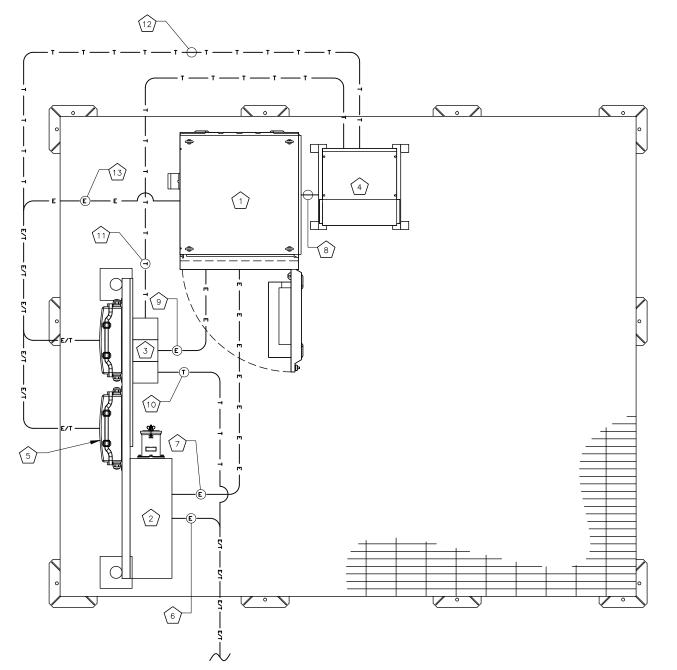
SCALE: 22"x34" SHEET 1" = SCALE: 11"x17" SHEET 1" =

GENERAL ELECTRICAL NOTES:

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- 2. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 UNLESS OTHERWISE INDICATED. 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 IMMEDIATELY**
- 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.

CODED DRAWING NOTES:

- PROPOSED T-MOBILE DELTA SITE SUPPORT CABINET
- PROPOSED T-MOBILE PPC CABINET
- (3)PROPOSED CIENA ENCLOSURE
- 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
- (2) 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)



ABBREVIATIONS:

AMERICAN WIRE GALIGE AWG BARE COPPER WIRE BCW 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 MSC MOBILE SWITCHING CENTER MTSO MOBILE TELEPHONE SWITCHING OFFICE PVC POLYVINYL CHLORIDE QTY RGS 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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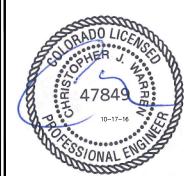
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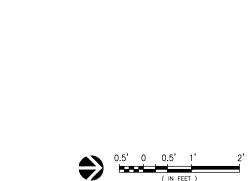
US-CO-5054

SITE ADDRESS: =

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EQUIPMENT UTILITY LAYOUT

SHEET NUMBER:

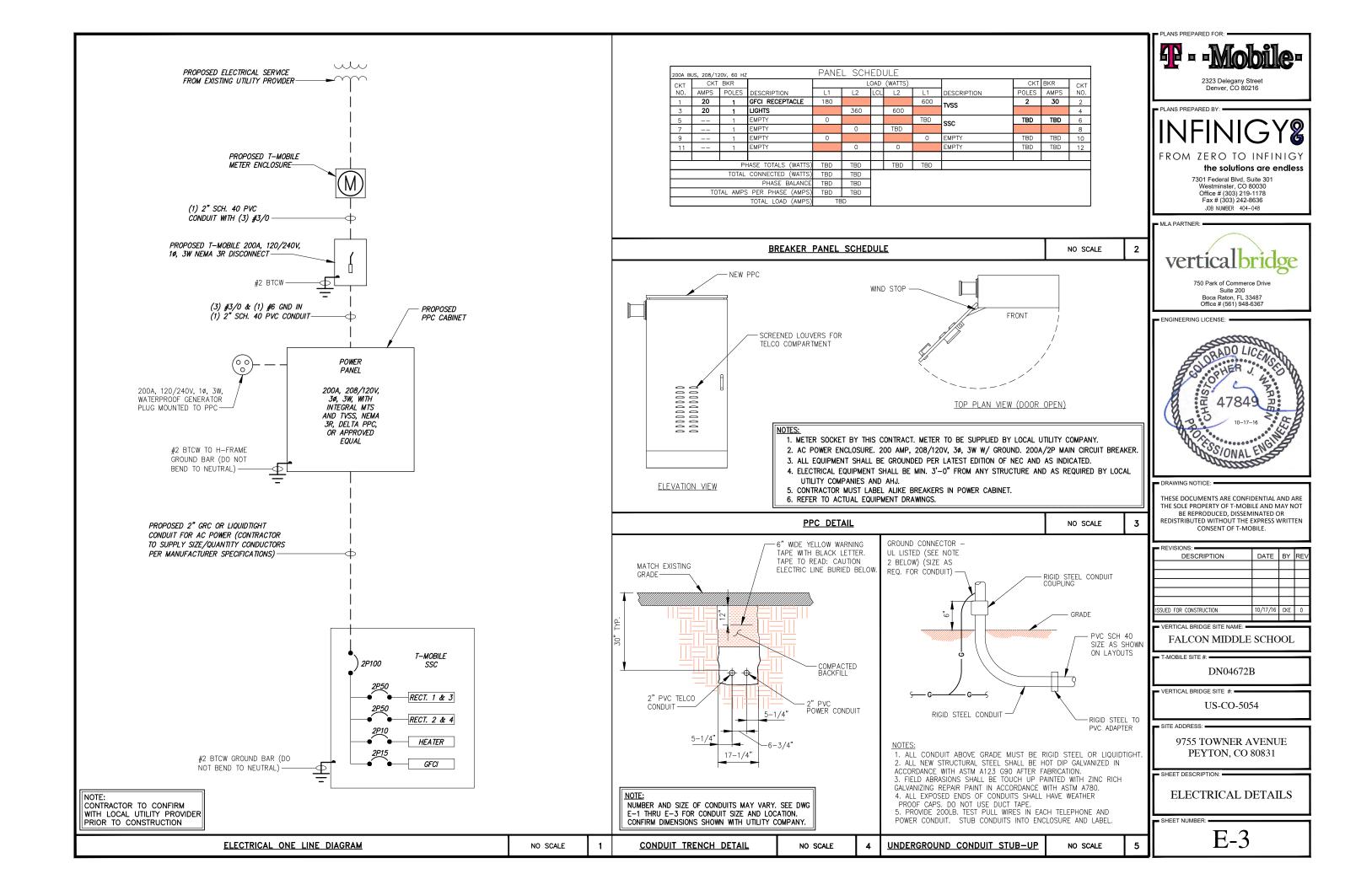


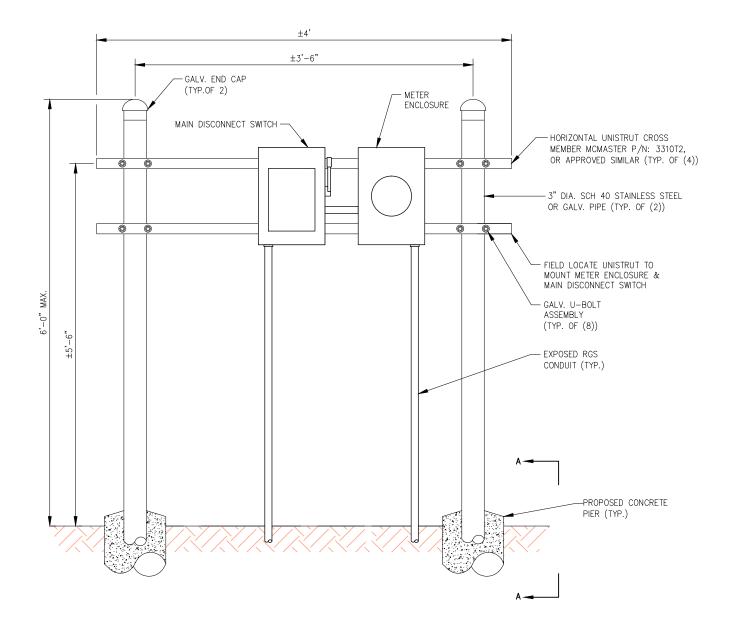
NORTH

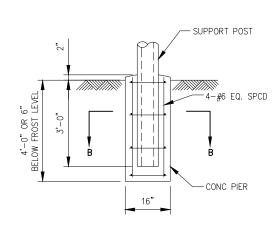
NOTE: ICE BRIDGE NOT SHOWN FOR CLARITY.

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

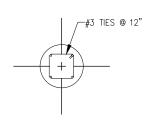
SCALE: 22"x34" SHEET 1" = SCALE: 11"x17" SHEET 1" =







SECTION A-A



SECTION B-B

PLANS PREPARED FOR:



Denver, CO 80216

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FROM ZERO TO INFINIGY

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7301 Federal Blvd, Suite 301 Westminster, CO 80030 Office # (303) 219-1178 Fax # (303) 242-8636 J0B NUMBER 404-048

MLA PARTNER:



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

ENGINEERING LICENSE:



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REVISIONS:

DESCRIPTION

DATE BY RET

DESCRIPTION

0/17/16 CKE 0

VERTICAL BRIDGE SITE NAME:

FALCON MIDDLE SCHOOL

T-MOBILE SITE #: =

SSUED FOR CONSTRUCTION

DN04672B

VERTICAL BRIDGE SITE #:

US-CO-5054

SITE ADDRESS:

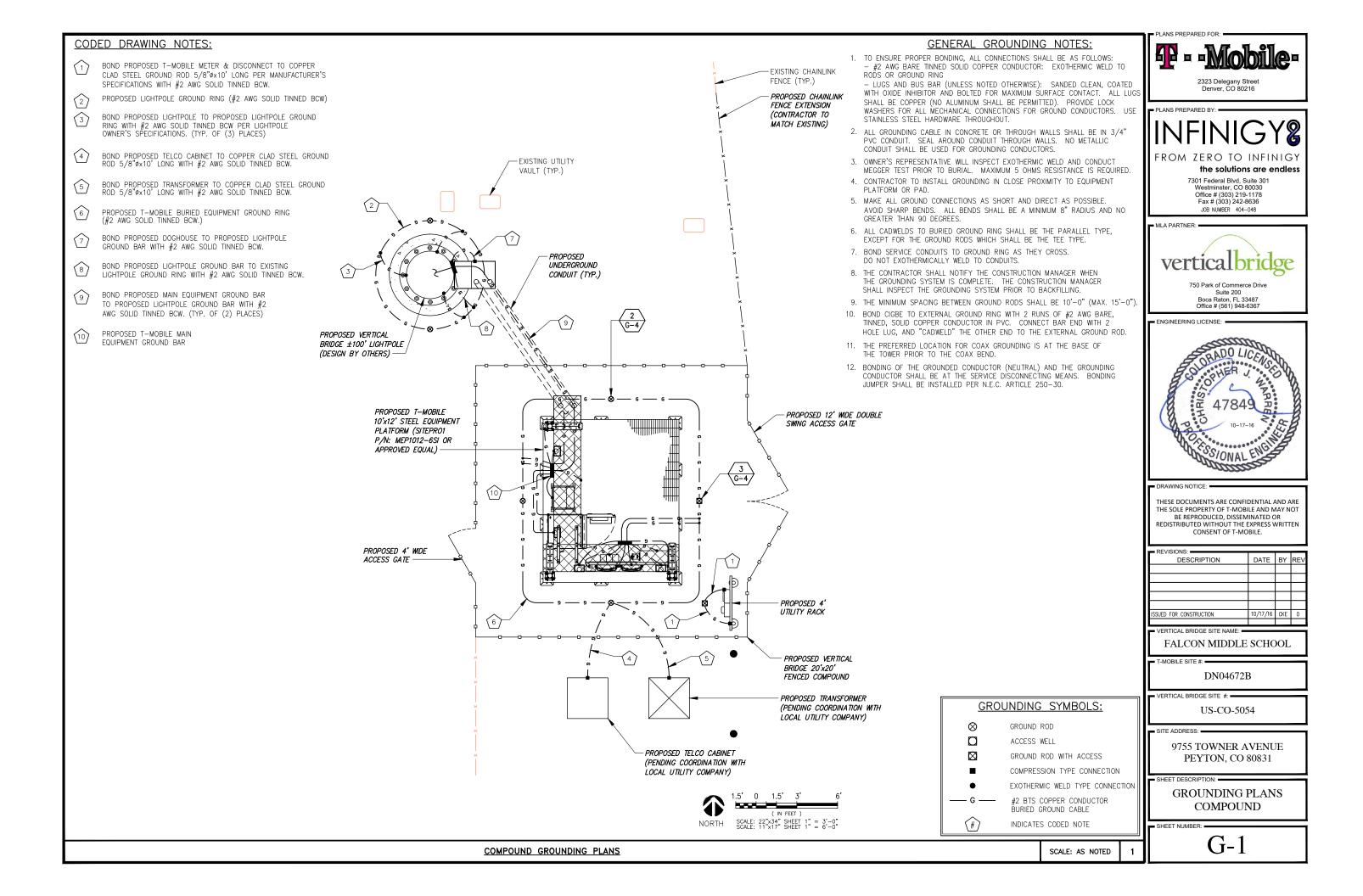
9755 TOWNER AVENUE PEYTON, CO 80831

SHEET DESCRIPTION:

UTILITY RACK DETAIL

SHEET NUMBER:

E-4



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) PLACES)

PROPOSED T-MOBILE STEEL EQUIPMENT

- PLATFORM TO BE GROUNDED PER
 MANUFACTURER'S SPECIFICATIONS

 PROPOSED T-MOBILE DELTA SITE
- 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.)
- 8 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 EQUIPMENT 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 LIGHTPOLE 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.)

BOND PROPOSED T-MOBILE COVP TO PROPOSED T-MOBILE CIGBE PER MANUFACTURER'S SPECIFICATIONS (TYP.) PROPOSED SECTOR GROUND 1. TO - # GROUND - # OFFICIAL STORM SECTOR GROUND

BOND PROPOSED T-MOBILE SECTOR GROUND
BAR TO PROPOSED T-MOBILE CIGBE PER
MANUFACTURER'S SPECIFICATIONS (TYP.)

BOND PROPOSED T-MOBILE PANEL ANTENNA
TO PROPOSED T-MOBILE CIGBE PER
MANUFACTURER'S SPECIFICATIONS (TYP.)

BOND PROPOSED T-MOBILE CIGBE TO
PROPOSED BASE CIGBE
(CONTRACTOR TO VERIFY)

PROPOSED T-MOBILE PANEL ANTENNA (TYP. OF (1) PER SECTOR, (3) SECTORS TOTAL)

> PROPOSED T-MOBILE FRBG (TYP. OF (1) PER SECTOR, (3) SECTORS TOTAL)

> > PROPOSED VERTICAL BRIDGE ±100' LIGHTPOLE (DESIGN BY OTHERS) —

PROPOSED T-MOBILE

COVP (TYP. OF (2)) -

GENERAL GROUNDING NOTES:

- TO ENSURE PROPER BONDING, ALL CONNECTIONS SHALL BE AS FOLLOWS:

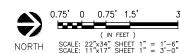
 #2 AWG BARE TINNED SOLID COPPER CONDUCTOR: EXOTHERMIC WELD TO RODS OR
 GROUND RING
- LUGS AND BUS BAR (UNLESS NOTED OTHERWISE): SANDED CLEAN, COATED WITH OXIDE INHIBITOR AND BOLTED FOR MAXIMUM SURFACE CONTACT. ALL LUGS SHALL BE COPPER (NO ALUMINUM SHALL BE PERMITTED). PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
- ALL GROUNDING CABLE IN CONCRETE OR THROUGH WALLS SHALL BE IN 3/4" PVC CONDUIT. SEAL AROUND CONDUIT THROUGH WALLS. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS.
- 3. OWNER'S REPRESENTATIVE WILL INSPECT EXOTHERMIC WELD AND CONDUCT MEGGER TEST PRIOR TO BURIAL. MAXIMUM 5 OHMS RESISTANCE IS REQUIRED.
- 4. CONTRACTOR TO INSTALL GROUNDING IN CLOSE PROXIMITY TO EQUIPMENT PLATFORM OR PAD.
- 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. DO NOT EXOTHERMICALLY WELD TO CONDUITS.
- 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.
- 9. THE MINIMUM SPACING BETWEEN GROUND RODS SHALL BE 10'-0" (MAX. 15'-0").
- 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.
- 11. THE PREFERRED LOCATION FOR COAX GROUNDING IS AT THE BASE OF THE TOWER PRIOR TO THE COAX BEND.
- BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250-30.

TYPICAL ANTENNA GROUNDING PLAN (NOT TO SCALE) PROPOSED T-MOBILE 10'x12' STEEL EQUIPMENT PLATFORM WITHIN NEW T-MOBILE 20'x20' LEASE AREA 11. THE PREFERRED LOCATION THE TOWER PRIOR TO THE CONDUCTOR SHALL BE AT JUMPER SHALL BE INSTAL 12. BONDING OF THE GROUND CONDUCTOR SHALL BE INSTAL 13. THE PREFERRED LOCATION THE TOWER PRIOR TO THE CONDUCTOR SHALL BE AT JUMPER SHALL BE INSTAL 14. **Conductor** 15. **Conductor** 16. **Conductor** 17. **Conductor** 18. **Conductor** 19. **Conductor** 19. **Conductor** 10. **ANTENNA GROUNDING PLAN THE PREFERRED LOCATION THE TOWER PRIOR TO THE CONDUCTOR SHALL BE AT JUMPER SHALL BE INSTAL 17. **Conductor** 18. **Conductor** 19. **Conductor** 19. **Conductor** 10. **Conductor** 11. **THE PREFERRED LOCATION THE TOWER PRIOR TO THE CONDUCTOR SHALL BE AT JUMPER SHALL BE INSTAL 12. BONDING OF THE GROUND THE TOWER PRIOR TO THE TOWER PR

GROUNDING SYMBOLS:

- igotimes Ground rod
- ACCESS WELL
- GROUND ROD WITH ACCESS
- COMPRESSION TYPE CONNECTION
- EXOTHERMIC WELD TYPE CONNECTION
 - #2 BTS COPPER CONDUCTOR BURIED GROUND CABLE
 - INDICATES CODED NOTE

EQUIPMENT GROUNDING PLAN



PROPOSED T-MOBILE

TOWER TOP CIGBE

BOND PROPOSED T-MOBILE

T-MOBILE SECTOR GROUND

BAR PER MANUFACTURER'S

SPECIFICATIONS (TYP.)

PROPOSED T-MOBILE 5' TRIPLE

RMV5-296 OR APPROVED EQUAL)

T-ARM MOUNT (SITEPRO1 P/N:

FRBG TO PROPOSED

GROUNDING PLANS SCALE: AS NOTED

PLANS PREPARED FOR



2323 Delegany Stree

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REVISIONS:			
DESCRIPTION	DATE	BY	REV
SSUED FOR CONSTRUCTION	10/17/16	CKE	0

FALCON MIDDLE SCHOOL

T-MOBILE SITE #:

DN04672B

VERTICAL BRIDGE SITE #:

VERTICAL BRIDGE SITE NAME:

US-CO-5054

SITE ADDRESS:

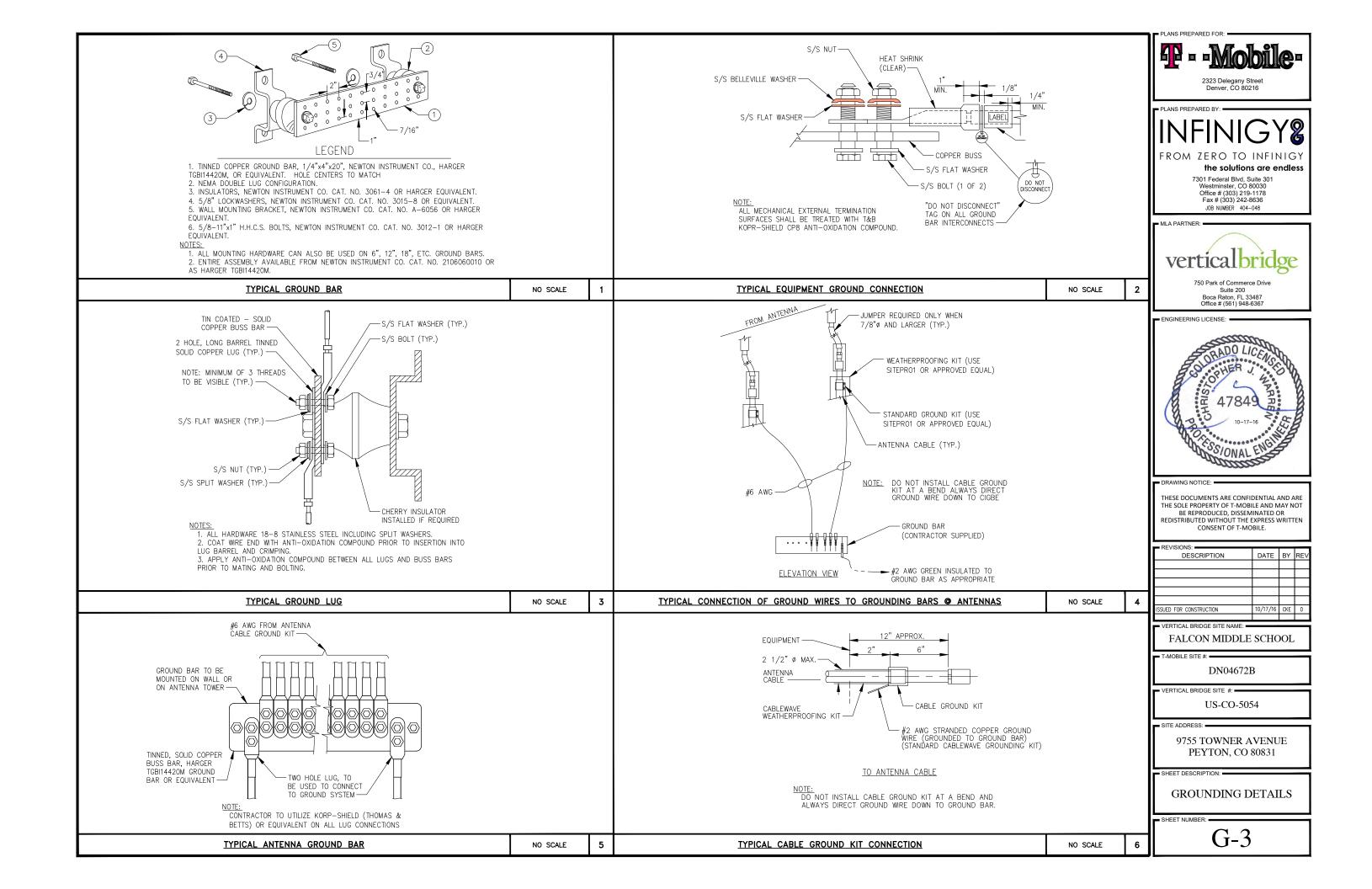
9755 TOWNER AVENUE PEYTON, CO 80831

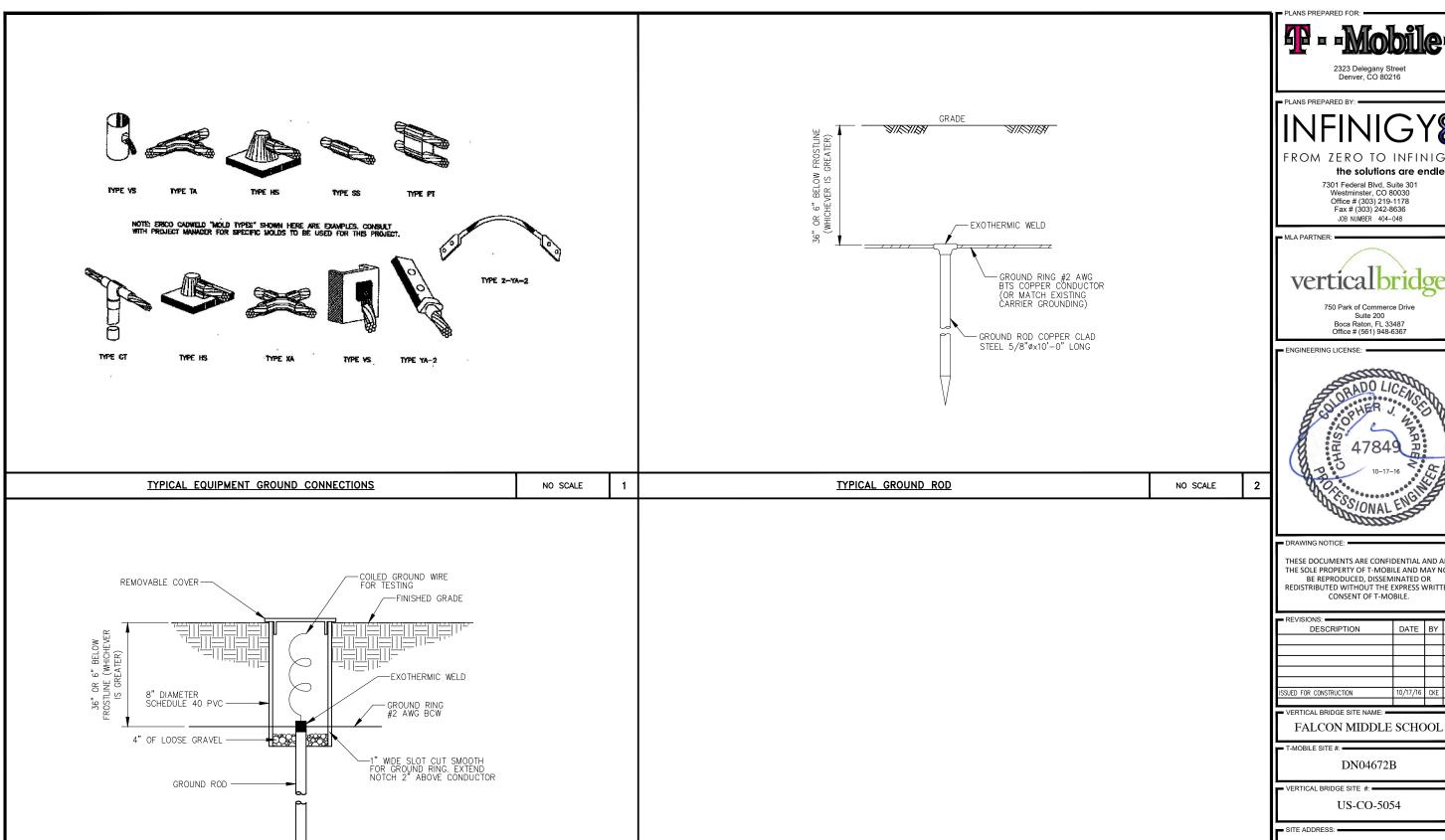
SHEET DESCRIPTION:

GROUNDING PLANS

SHEET NUMBER:

G-2





DETAIL NOT USED

NO SCALE

TYPICAL INSPECTION SLEEVE

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REVISIONS:			
DESCRIPTION	DATE	BY	RE\
ISSUED FOR CONSTRUCTION	10/17/16	CKE	0

9755 TOWNER AVENUE PEYTON, CO 80831

SHEET DESCRIPTION:

GROUNDING DETAILS

SHEET NUMBER: =

NO SCALE

G-4