

Conceptual Review Agenda

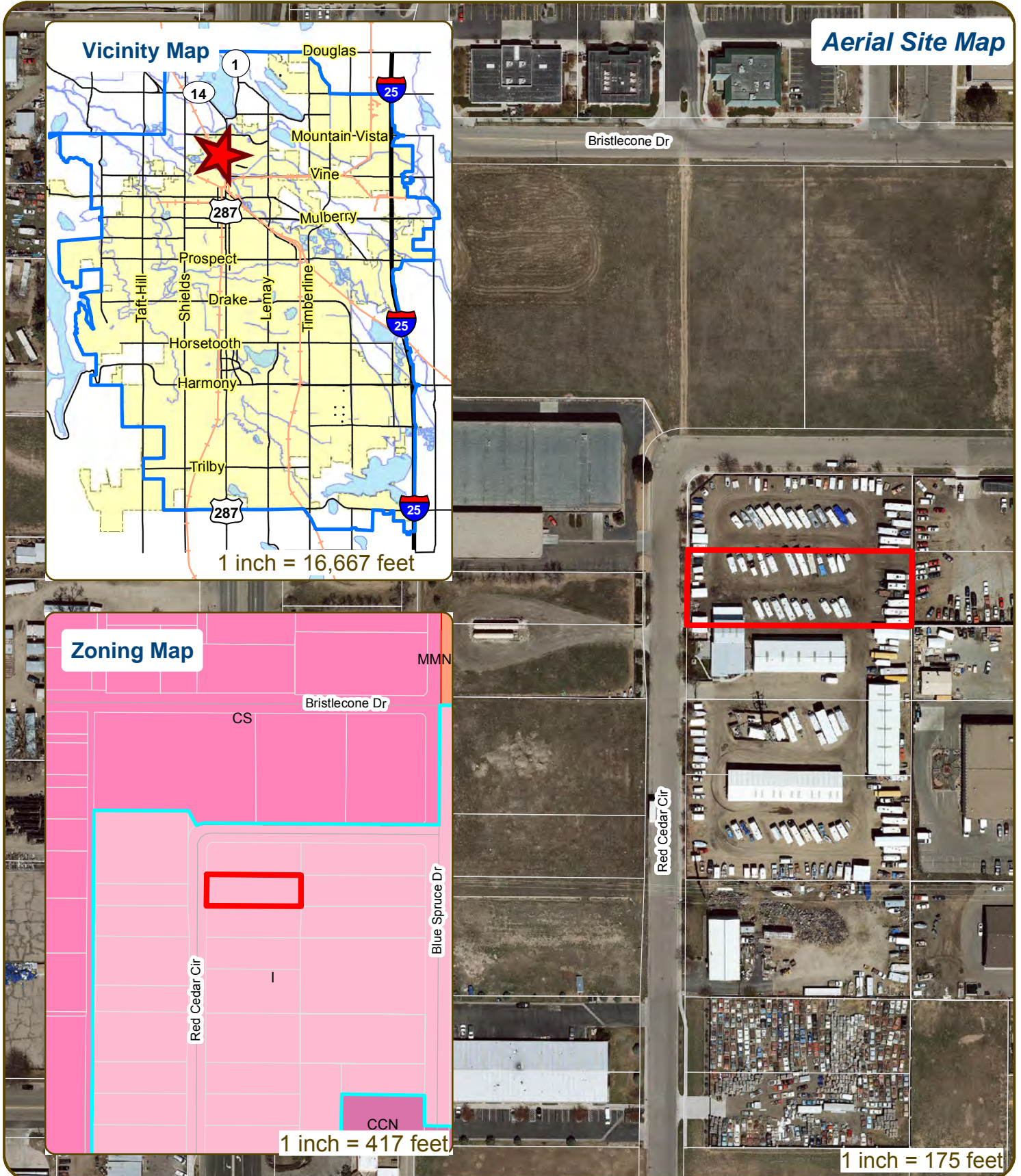
Schedule for 06/07/18 to 06/07/18

281 Conference Room A

Thursday, June 7, 2018

Time	Project Name	Applicant Info	Project Description		
9:30	1314 Red Cedar Circle	Stacy Kubeldis (626) 826-9321 stacy.kubeldis@gmail.com	This is a request to add an additional 10 feet to an existing 90 foot tall cellular tower with exposed mounted antennas. The additional 10 feet would accommodate a 3 foot diameter dish. The proposed project is within the Industrial (I) zone district and is subject to Administrative (Type 1) review.	Planner	Ted Shepard
	CDR180035			DRC	Todd Sullivan
10:15	2155 Midpoint Dr	Deanne Frederickson (970) 534-9095 deanne.frederickson@baselinecorp.com	This is a request to construct an open lean-to structure at 2155 Midpoint Dr (parcel #8720220002). The proposed facility would be used store and distribute building materials. A u-shaped access drive is proposed with two connections to Midpoint Dr. The property is currently developed. The proposed project is within the Employment (E) zone district and is subject to Administrative (Type 1) review.	Planner	Clay Frickey
	CDR180036			DRC	Tenae Beane
11:00	OTAC Crossfit	Krisin Slattery (970) 690-2213 kristin.slattery@colostate.edu	This is a request to construct a two-story, 7,000 square foot indoor recreation facility at 748 N College Ave (parcel #9701319002). The proposed project would be accessed along the north by extending Pascal St to the west. Twenty-one parking spaces are located along the west and south. The proposed project is within the Service Commercial (CS) zone district and is subject to Administrative (Type 1) review.	Planner	Pete Wray
	CDR180037			DRC	Brandy Bethuem-Harras

1314 Red Cedar Circle Cellular Equipment



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CONCEPTUAL REVIEW: APPLICATION

General Information

All proposed development projects begin with Conceptual Review. Anyone with a development idea can schedule a Conceptual Review meeting to get feedback on prospective development ideas. At this stage, the development idea does not need to be finalized or professionally presented. However, a sketch plan and this application must be submitted to City Staff prior to the Conceptual Review meeting. The more information you are able to provide, the better feedback you are likely to get from the meeting. Please be aware that any information submitted may be considered a public record, available for review by anyone who requests it, including the media.

Conceptual Reviews are scheduled on three Monday mornings per month on a "first come, first served" basis. One 45 meeting is allocated per applicant and only three conceptual reviews are done each Monday morning. Conceptual Review is a free service. Complete applications and sketch plans must be submitted to City Staff no later than 5 pm, two Tuesdays prior to the meeting date. Application materials must be e-mailed to currentplanning@fcgov.com. If you do not have access to e-mail, other accommodations can be made upon request.

At Conceptual Review, you will meet with Staff from a number of City departments, such as Community Development and Neighborhood Services (Zoning, Current Planning, and Development Review Engineering), Light and Power, Stormwater, Water/Waste Water, Advance Planning (Long Range Planning and Transportation Planning) and Poudre Fire Authority. Comments are offered by staff to assist you in preparing the detailed components of the project application. There is no approval or denial of development proposals associated with Conceptual Review. At the meeting you will be presented with a letter from staff, summarizing comments on your proposal.

BOLDED ITEMS ARE REQUIRED *The more info provided, the more detailed your comments from staff will be.*

Contact Name(s) and Role(s) (Please identify whether Consultant or Owner, etc) Consultant

Business Name (if applicable) Mastec

Your Mailing Address 3350 E. Birch Street #101 Brea, CA 92821

Phone Number 626-826-9321 Email Address stacy.kubeldis@gmail.com

Site Address or Description (parcel # if no address) 1314 Red Cedar Circle Fort Collins, CO 80525

Description of Proposal (attach additional sheets if necessary) Purposed Scope of Work:

10' extension to an existing cell tower

3' dish at 95' with 2 runs of EW-90 Cabling.

Proposed Use Existing Use Existing Cell Tower

Total Building Square Footage S.F. Number of Stories Lot Dimensions

Age of any Existing Structures Tower was built 8/31/2001

Info available on Larimer County's Website: http://www.co.larimer.co.us/assessor/query/search.cfm

If any structures are 50+ years old, good quality, color photos of all sides of the structure are required for conceptual.

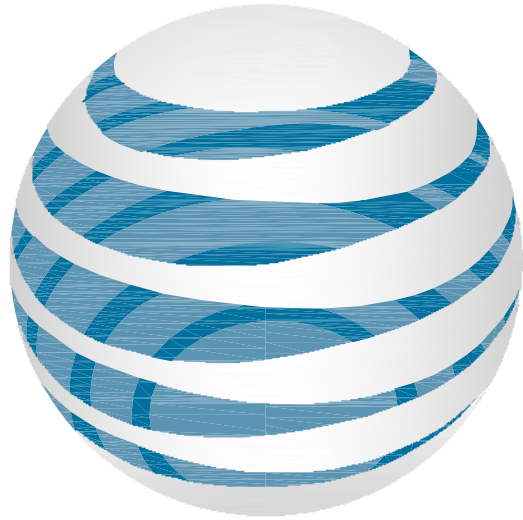
Is your property in a Flood Plain? Yes No If yes, then at what risk is it?

Info available on FC Maps: http://gisweb.fcgov.com/redirect/default.aspx?layerTheme=Floodplains.

Increase in Impervious Area N/A all work is withing the existing lease area, please refer to site plans S.F. (Approximate amount of additional building, pavement, or etc. that will cover existing bare ground to be added to the site)

Suggested items for the Sketch Plan:

Property location and boundaries, surrounding land uses, proposed use(s), existing and proposed improvements (buildings, landscaping, parking/drive areas, water treatment/detention, drainage), existing natural features (water bodies, wetlands, large trees, wildlife, canals, irrigation ditches), utility line locations (if known), photographs (helpful but not required). Things to consider when making a proposal: How does the site drain now? Will it change? If so, what will change?



at&t

WILCOX AND COLLEGE
 1314 RED CEDAR CIRCLE
 FORT COLLINS, COLORADO 80525
 FA# 10127031
 NOVA PROJECT ID: WES-MW-06806
 COL03088

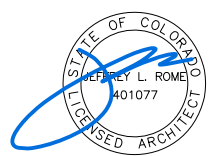


Jeffrey Rome | ASSOCIATES
 architecture | telecommunications
 131 Innovation Drive, Suite 100
 Irvine, California 92617
 tel 949.760.3929 | fax 949.760.3931

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AT&T WIRELESS IS STRICTLY PROHIBITED.

STAMP



PREPARED FOR



APPROVALS

ANITA JEN	12/29/17
90% CDS	DATE
ANITA JEN	02/22/18
100% CDS	DATE
ANITA JEN	02/22/18
100% CDS WITH STRUCTURALS	DATE
CHRISTINA MICHAUD	01/09/18
CONSTRUCTION	DATE
SITE ACQUISITION	DATE

SPECIAL INSPECTIONS

1 CONCRETE	13.1 VERIFY SOIL CONDITIONS ARE SUBSTANTIALLY IN CONFORMANCE WITH THE SOIL INVESTIGATION REPORT
2 BOLTS INSTALLED IN CONCRETE	13.2 VERIFY THAT FOUNDATION EXCAVATIONS EXTEND TO PROPER DEPTH AND BEARING STRATA
3 CONCRETE MOMENT-RESISTING SPACE FRAME	13.3 PROVIDE SOIL COMPACTION TEST RESULTS, DEPTH OF FILL, RELATIVE DENSITY, BEARING VALUES
4 REINFORCING STEEL AND PRESTRESSING STEEL	13.4 PROVIDE SOIL EXPANSION TEST RESULTS, EXPANSION INDEX, RECOMMENDATIONS FOR FOUNDATIONS, ON-GRADE FLOOR SLAB DESIGN FOR EACH BUILDING SITE
5.1 ALL STRUCTURAL WELDING	14 SMOKE CONTROL SYSTEM
5.2 WELD TESTING DUCTILE MOMENT-RESISTING STEEL FRAME	15 SPECIAL CASES (DESCRIBE)
5.3 WELDING REINFORCING STEEL	16 OFF-SITE FABRICATION OF BUILDING COMPONENTS
6 HIGH-STRENGTH BOLTING	17 OTHER SPECIAL INSPECTIONS AS REQUIRED BY DESIGNER
7 STRUCTURAL MASONRY	
8 REINFORCED GYPSUM CONCRETE	
9 INSULATING CONCRETE FILL	
10 SPRAY-APPLIED FIREPROOFING	
11 DEEP FOUNDATIONS (PILING, DRILLED & CAISSONS)	
12 SHOTCRETE	

NO.	DESCRIPTION OF TYPE OF INSPECTION REQUIRED, LOCATION, REMARKS.

CONSULTANT TEAM

CLIENTS REPRESENTATIVE:

MASTEC NETWORK SOLUTIONS
 725 SOUTH REVERE PARKWAY, SUITE 100
 CENTENNIAL, COLORADO 80112
CONTACT: CHRISTINA MICHAUD
PHONE: (480) 477-4165

ARCHITECT:

JEFFREY ROME & ASSOCIATES
 131 INNOVATION DRIVE
 IRVINE, CALIFORNIA 92617
SUITE: 100
CONTACT: ANITA JEN
PHONE: (949) 760-3929
FAX: (949) 760-3931

SITE ACQUISITION:

JEFFREY ROME & ASSOCIATES
 131 INNOVATION DRIVE
 IRVINE, CALIFORNIA 92617
SUITE: 100
CONTACT: STACY KUBELDIS
PHONE: (949) 760-3929
FAX: (949) 760-3931

DEVELOPMENT SUMMARY

APPLICANT: AT&T MOBILITY
 188 INVERNESS DRIVE WEST, SUITE 400
 ENGLEWOOD, COLORADO 80112

LAND OWNER: JERALD H. RUSSELL
 PHONE: (970) 493-1780

TOWER OWNER: AMERICAN TOWER CORPORATION
 TOWER ID# 302435

OTHER ON-SITE TELECOM FACILITIES: YES

ASSESSORS PARCEL NUMBER: 97012-14-004

LATITUDE: 40° 36' 17.5" N 40.604861°

LONGITUDE: 105° 4' 26.7" W -105.074083°

LAT/LONG TYPE: NAD-83

ELEVATION: ±4991.0' AMSL

EXISTING ZONING: I

PROPOSED PROJECT AREA: NO INCREASE IN S.F.

EXISTING TYPE OF CONSTRUCTION: TYPE V-N

PROPOSED TYPE OF CONSTRUCTION: TYPE V-N

EXISTING OCCUPANCY: U

PROPOSED OCCUPANCY: U

JURISDICTION: CITY OF FORT COLLINS

SHEET INDEX

T-1 TITLE SHEET
 T-2 SPECIFICATIONS AND NOTES

A-0 OVERALL SITE PLAN
 A-1 SITE PLAN
 A-1.1 ENLARGED SITE AND EQUIPMENT PLAN
 A-2 EXISTING AND PROPOSED ELEVATIONS
 A-3 ANTENNA DETAILS
 A-4 SPECIFICATIONS
 A-5 ANTENNA MOUNTING DETAILS
 A-5.1 ANTENNA MOUNTING DETAILS
 A-5.2 ANTENNA MOUNTING DETAILS
 MONOPOLE EXTENSION REFERENCE SHEETS

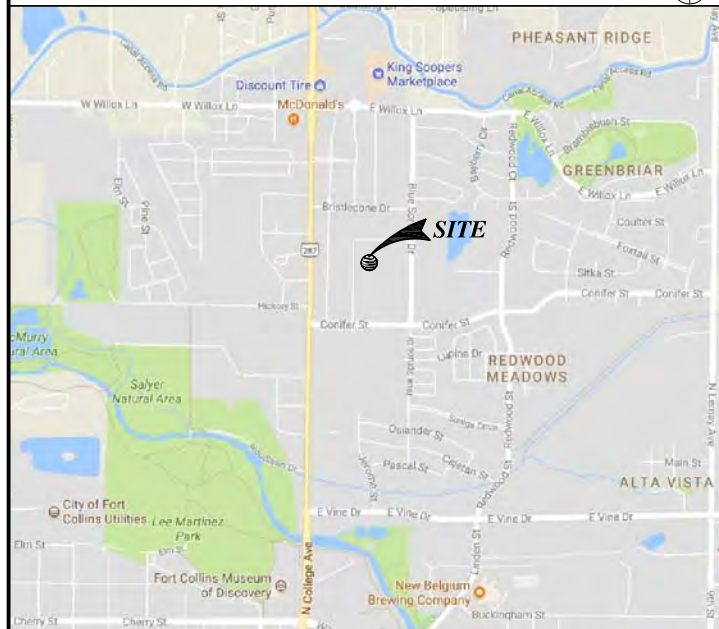
REF-1 REFERENCE SHEET
 REF-2 REFERENCE SHEET
 REF-3 REFERENCE SHEET

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
 INTERNATIONAL BUILDING CODE, 2012 EDITION
 INTERNATIONAL MECHANICAL CODE, 2012 EDITION
 INTERNATIONAL ENERGY CONSERVATION CODE, 2012 EDITION
 NATIONAL ELECTRICAL CODE, 2014 EDITION
 INTERNATIONAL PLUMBING CODE, 2012 EDITION
 INTERNATIONAL FUEL GAS CODE, 2012 EDITION
 NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS, 2002-2006 EDITIONS

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

VICINITY MAP



PRECON NOTES

- CONTACT AMERICAN TOWER FIELD TECHNICIAN TO SCHEDULE PRE-CON 48 HOURS PRIOR TO REQUESTED MOBILIZATION ON SITE.
- MASTEC TO CONFIRM COMPLETION OF TOWER MODIFICATION DATED 02/09/18 PREPARED BY ATC PRIOR TO START OF CONSTRUCTION; SEE REFERENCE SHEETS.

PROJECT DESCRIPTION

AT&T MOBILITY PROPOSES TO MODIFY AN EXISTING UNMANNED WIRELESS COMMUNICATIONS FACILITY. THIS MODIFICATION WILL CONSIST OF THE FOLLOWING:

- INSTALL NEW 3'-0" MICROWAVE ANTENNA AT A 95'-0" RAD CENTER.
- INSTALL NEW (2) RUNS OF EW-90 WAVEGUIDE CABLES.
- INSTALL NEW 10'-0" MONOPOLE EXTENSION.

ACCESSIBILITY DISCLAIMER

THIS PROJECT IS AN UNOCCUPIED WIRELESS PCS TELECOMMUNICATIONS FACILITY AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

SCALE

THE DRAWING SCALES SHOWN IN THIS SET REPRESENT THE CORRECT SCALE ONLY WHEN THESE DRAWINGS ARE PRINTED IN A 24"x36" FORMAT. IF THIS DRAWING SET IS NOT 24"x36", THIS SET IS NOT TO SCALE.

SHEET TITLE

TITLE SHEET

T-1

GENERAL SPECIFICATIONS

- THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.
- THIS FACILITY IS AN UNOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.
- PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING DEMOLITION, ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS, AS WELL AS WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS AND SHALL CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. SHOULD ANY ERRORS, OMISSION, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY AT&T MOBILITY CONSTRUCTION MANAGER AND THE ARCHITECT IN WRITING. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE. IF A DISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.
- DRAWINGS SHALL NOT BE SCALED. THESE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. CONTRACTOR SHALL CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS, OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAS BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
- THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID ALL MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDICATED OR IMPLIED BY THESE DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY CONSTRUCTION MANAGER, THE PROPERTY OWNER AND THE ARCHITECT IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
- EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION, IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY CONSTRUCTION MANAGER AND THE ARCHITECT SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL VERIFY ALL TELEPHONE & RADIO EQUIPMENT LAYOUTS, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND FINAL LOCATIONS WITH AT&T MOBILITY CONSTRUCTION MANAGER PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ERICSSON RADIO SYSTEMS.
- ALL SYMBOLS & ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE AT&T MOBILITY CONSTRUCTION MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO AT&T MOBILITY.
- THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE IN THE SITE AND SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:

NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION O'HARE INTERNATIONAL CENTER 10255 W. HIGGINS ROAD, SUITE 600 ROSEMONT, IL 60018
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION 4201 LAFAYETTE CENTER DRIVE CHATILLY, VA 22021-1209
ITLP	INTERNATIONAL INSTITUTE FOR LATH AND PLASTER 820 TRANSFER ROAD ST. PAUL, MN 55114-1406
- INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGARS OR OTHER SUPPORTS FOR ALL ITEMS REQUIRING THE SAME.
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.
- THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, AND AT&T MOBILITY PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING FINISHES, CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, OR EQUIPMENT, ETC. SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF AT&T MOBILITY, AND THE PROPERTY OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY, ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY AT&T MOBILITY UNDER THIS CONTRACT.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, OR CONTACT AN OUTSIDE AGENCY TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR THE REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY AT&T MOBILITY.

ROOFING & WATERPROOFING NOTES

- CONTRACTOR SHALL CONTACT BUILDING OWNER TO DETERMINE IF ROOF IS UNDER WARRANTY. CONTRACTOR SHALL GUARANTEE THAT ANY AND ALL NEW ROOFING WORK MEETS THE SPECIFICATION OF ANY EXISTING ROOFING WARRANTIES SUCH THAT THE WARRANTY IS NOT MADE INVALID AS A RESULT OF THIS WORK. IF IT IS DETERMINED THAT THE ARCHITECT'S DETAILING IS INADEQUATE OR IMPROPER OR IF ANY OTHER DISCREPANCY IS FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE AT&T MOBILITY PROJECT MANAGER IN WRITING. ULTIMATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE ORIGINAL ROOF MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR SHALL USE METHODS AND MATERIALS SIMILAR AND COMPATIBLE WITH EXISTING MATERIALS & CONDITIONS FOR ROOF PATCHING, NEW PENETRATIONS, ETC.
- THE CONTRACTOR SHALL PROPERLY SEAL ALL NEW ROOF & BUILDING ENVELOPE PENETRATIONS SUCH THAT THE INTEGRITY OF THE ORIGINAL BUILDING ASSEMBLY AND ALL APPLICABLE WARRANTIES ARE MAINTAINED.
- IF IT DEEMED NECESSARY TO REMOVE EXISTING FINISHES AND/OR MATERIALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING FINISHES AND MATERIALS TO LIKE-NEW CONDITION. CONTRACTOR SHALL MAINTAIN THE ORIGINAL COLORS, TEXTURES & FINISHES UNLESS SPECIFICALLY NOTED TO THE CONTRARY OR APPROVED BY THE AT&T MOBILITY CONSTRUCTION MANAGER IN ADVANCE.
- AT THE AT&T MOBILITY CONSTRUCTION MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE ROOFTOP WALKPADS TO ALL NEW EQUIPMENT INCLUDING ANTENNAS AND BTS UNITS AND ALONG COAX CABLE ROUTING. ON CONVENTIONAL ROOFING, THE WALK PADS SHALL BE "DUCK BOARDS" AS MANUFACTURED BY APC OR EQUAL. ON SPECIAL ROOFING SYSTEMS SUCH AS SINGLE MEMBRANE ROOFS WILL REQUIRE A SPECIFIC PRODUCT AS NOTED ON PLANS OR AS REQUIRED BY NOTES 1 & 2 ABOVE.

PENETRATION AT FIRE RATED ASSEMBLIES

- AT THE AT&T MOBILITY PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "HITI" HIGH PERFORMANCE FIRESTOP SYSTEM #FS601 AT ALL FIRE RATED PENETRATIONS INSTALLED PER MANUFACTURER'S LATEST INSTALLATION SPECIFICATIONS.
- PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.

PAINTING NOTES & SPECIFICATIONS

- GENERAL
 - ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE.
 - CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.
 - COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.
 - FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED.
 - ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE AT&T MOBILITY CONSTRUCTION MANAGER.
 - PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GRIT SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1.
 - FURNISH DROP CLOTHES, SHIELDS, MASKING AND PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND FACILITIES.
 - APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.
 - APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.
 - CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES AND OTHER DEFECTS INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE AT&T MOBILITY CONSTRUCTION MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.
- PAINTING SCOPE
 - PAINT THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE COATING SYSTEM INDICATED.

PAINTING SCOPE				
SURFACE TO BE PAINTED	COATING SYSTEM	PAINT	DO NOT PAINT	N/A
BITS UNIT				
ALL EQUIPMENT & CABINETS OTHER THAN THE BITS UNIT				
WIREMESH COVERS, TEST BRACKETS, WIREMESH BRACKETS AND ASSOCIATED HARDWARE, CABLE AND CABLE COVERS EXPOSED TO VIBRATED SURFACES AND WINDINGS, ETC.				
FLASHING UNITS, METAL TRIM AND OTHER METAL SURFACES				
STUCCO, CONCRETE, CONCRETE BLOCK AND CONCRETE TYPE TOWER SYSTEMS				
PLYWOOD, LUMBER AND WOOD TRIM INCLUDING THE BACK SIDE OF ALL SCREENWALLS				
DRYWALL				
CONCRETE PILES				
METAL PILES AND METAL POLE STAND-OFF				
 - COATING SYSTEM SPECIFICATIONS
 - DTM ACRYLIC COATING (SERIES B66) BY SHERWIN WILLIAMS CO. 1MIL DFT PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (B66A50).
 - 100% ACRYLIC, LATEX COATING EQUIVALENT TO A-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER, PAINT & PRIMER
 - ANTENNAS
 - PRIMER - KEM AQUA E61-W525
 - TOPCOAT - COROTHANE II B65W200/B60V22
 - BTS CABINET
 - PRIMER - KEM AQUA E61-W525
 - TOPCOAT - COROTHANE II B65W200/B60V22
 - COAXIAL JUMPER CABLES
 - PRIMER - AS REQUIRED FOR ADHESION. APPLY ONE COAT OF KEM AQUA WATER REDUCIBLE PRIMER E61W25 REDUCED 25%
 - TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
 - RAW STEEL
 - PRIMER - KEM BOND HS B50WZ4, DMT ACRYLIC PRIMER
 - TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
 - GALVANIZED METAL
 - ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR PRIMER COAT AND FINISH COAT (GALVITE HIGH SOLIDS OR DTM PRIMER/FINISH)
 - STAINLESS STEEL
 - PRIMER - OTM WASH PRIMER, B71Y1
 - TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
 - PRE-PRIMED STEEL
 - TOUCH UP ANY RUST OR UN-PRIMED STEEL WITH KEM BOND HS, S50WZ4
 - ALUMINUM & COPPER
 - PRIMER - DTM WASH PRIMER, B71Y1
 - TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
 - CONCRETE MASONRY
 - PRIMER - PRO MAR EXTERIOR BLOCK FILLER
 - TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH
 - CONCRETE STUCCO(EXISTING)
 - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH
 - WOOD
 - PRIMER - A-100 EXTERIOR ALKYD W009D PRIMER Y-24W20
 - TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM SHEEN TO MATCH ADJACENT SURFACES
 - GLU-LAM BEAMS
 - PRIMER - A-100 EXTERIOR ALKYD WOOD PRIMER Y-24W20
 - TWO COATS SHOP APPLIED PER GLU-LAM MANUFACTURER'S SPECIFICATIONS
 - TOPCOAT - SUPERPAINT A-80 SERIES A-89 SATIN A-84 GLOSS
 - TWO COATS SHOP OR FIELD APPLIED AT CONTRACTOR'S OPTION
 - FIELD CUTS/DAMAGE(PRIOR TO PRIME & PAINT)
 - FIRST & SECOND COAT - CUPRINOL CLEAR WOOD PRESERVATIVE #158-0356
 - ALL PENETRATIONS INTO FINISHED GLU-LAMS SHALL BE CAULKED WITH "SIKAFLEX" SEALANT
 - STEEL TOUCH UP
 - STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZED PAINT

STRUCTURAL SPECIFICATIONS

- GENERAL

PRECEDENCE: UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY. INFORMATION ON THESE DRAWINGS SHALL HAVE THE FOLLOWING PRECEDENCE.

 - ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
 - NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
 - MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.
- OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
- GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.
- SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS IN IT'S COMPLETED FORM. THIS INCLUDES UNDERPINNING EXISTING FOOTINGS WHERE APPLICABLE.
- SAFETY: THESE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
- WATERPROOFING: WATERPROOFING AND DRAINAGE, DETAILS AND SPECIFICATIONS, ALTHOUGH SOMETIMES SHOWN ON STRUCTURAL DRAWING ARE OF GENERAL INFORMATION PURPOSES ONLY. WATERPROOFING AND DRAINAGE ARE SOLELY THE DESIGN RESPONSIBILITY OF THE ARCHITECT.
 - CONCRETE IN CONTACT WITH EARTH, UNFORMED 3"
 - CONCRETE IN CONTACT WITH EARTH, FORMED 2"
 - WALL, EXTERIOR FACE 1-1/2"
 - WALL, INTERIOR FACE 1"
 - STRUCTURAL SLABS 3/4"
 - JOISTS 3/4"
 - BEAMS, GIRDERS & COLUMNS 1-1/2"
- PENETRATIONS: NO SLEEVES OR CHASES SHALL BE PLACED IN BEAMS, SLABS, WALLS AND COLUMNS, EXCEPT THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATIONS OF ANY ADDITIONAL SLEEVES OR CHASES. ALL PLUMBING, ELECTRICAL AND MECHANICAL OPENINGS SHALL BE SLEEVES. CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
- EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK, UNLESS SLAB IS LOCALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE SIX INCHES.
- ANCHORING: ALL ANCHOR BOLTS, REINFORCING STEEL, DOWELS, INSERTS, ETC., SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. NO REPOSITIONING DURING CONCRETE POUR IS ALLOWED.
- CURING: SLABS SHALL BE SPRAYED WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUNDS USED ON CONCRETE WHERE TILE OR FLOOR COVERING IS TO BE BONDED TO THE CONCRETE SURFACE SHALL BE APPROVED BY THE TILE OR FLOOR COVERING MANUFACTURER. KEEP SLAB WET FOR 7 DAY MINIMUM PERIOD.
- CONSOLIDATION: ALL CONCRETE SHALL BE VIBRATED AS IT IS BEING PLACED WITH ELECTRICALLY OPERATED VIBRATING EQUIPMENT.
 - TIMBER
- ALL FRAMING LUMBER FOR 4X AND LARGER BEAMS SHALL BE NO. 1 GRADE DOUGLAS FIR, S4S, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ALL FRAMING LUMBER FOR 2X RAFTERS AND JOISTS SHALL BE NO.2 GRADE DOUGLAS FIR, S4S, UNLESS NOTED OTHERWISE ON DRAWINGS
- STRIPPING, BLOCKING, BACKING AND OTHER NON-STRUCTURAL LUMBER SHALL BE NO. 2 OR STD & BTR GRADE DOUGLAS FIR, S4S. 2X4 STUD WALLS SHALL BE D.F. STANDARD & BTR.
- ALL BEAMS, JOISTS AND RAFTERS SHALL BE INSTALLED WITH CROWN SIDE UP.
- ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A SPAN INDEX RATIO 32/16. EDGE NAIL WITH 8d AT 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. FIELD NAIL WITH 8d AT 12" O.C.
- PLYWOOD SHEETS SHALL BE LAID WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS AND WITH THE EDGES STAGGERED, UNLESS NOTED OTHERWISE ON THE PLANS.
- PLYWOOD SHALL BE GRADE MARKED BY DFPA, TECO, OR PTL AND SHALL CONFORM TO PS 1-83.
- THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 24% AT THE TIME OF INSTALLATION.
- MINIMUM NAILING SHALL COMPLY WITH TABLE 23-1-q OF BUILDING CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.
- ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.
- LAG BOLTS SHALL BE SCREWED INTO PLACE, NOT DRIVEN. LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES WITH A DIAMETER EQUAL TO 75% DIAMETER OF BOLT.
- CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN THE PLANS SHALL BE STRONG CONNECTORS AS MANUFACTURED BY THE SAMSON COMPANY. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY THE STRUCTURAL ENGINEER.
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE WOLMANIZED PRESSURE TREATED LUMBER OR A NATURALLY DECAY RESISTANT LUMBER SUCH AS REDWOOD OR CEDAR.
- ALASKAN YELLOW CEDAR GLUE-LAMINATED BEAMS
 - LUMBER SPECIES: ALASKAN YELLOW CEDAR (A.C.) CONFORMING TO 20F-V12
 - STRENGTH PROPERTIES:
 - Fb BOTTOM FIBER BENDING STRESS 2000psi MIN.
 - Ft TOP FIBER BENDING STRESS 1000psi MIN.
 - Fv SHEAR STRESS 190psi MIN.
 - Fc COMPRESSION STRESS PERPENDICULAR TO GRAIN 560psi MIN.
 - E MODULUS ELASTICITY 1400ksi MIN.
 - C CAMBER TO RADIUS OF 1600' U.O.N.
 - D ALL GLB'S SHALL BE FABRICATED WITH EXTERIOR GLUE.
 - E MANUFACTURE OF GLB'S SHALL CONFORM TO THE UBC.
 - F GLU-LAM MATERIAL SHALL BE IN ACCORDANCE WITH ANSI/AITC A190.1 AND ASTM D3737.
- ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM A-36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.
- ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED ON PLANS. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A-325
- STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM A53.
- STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500.
- ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD. ALL WELDERS SHALL BE PROPERLY QUALIFIED AND BE PRE-APPROVED. SURPLUS METAL SHALL BE DRESSED OFF TO SMOOTH. EVEN SURFACES WHERE WELDS ARE NOT EXPOSED TO VIEW. ALL WELDING SHALL COMPLY WITH THE LATEST A.W.S. SPECIFICATIONS.
- THE FOLLOWING WELDING EQUIPMENT MUST BE USED:
 - 250 AMP WELDERS.
 - ROD OVENS.
 - GRINDERS.
- NO BUZZ BOXES SHALL BE USED.
- ALL STRUCTURAL STEEL SHALL MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.
- ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.
- STEEL THAT HAD BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.
- WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS SPECIFICALLY NOTED "FULL STRESS" AT END OF WELD SYMBOL.
- CONCRETE
 - STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS:

LOCATION	STRENGTH	WT.	SLUMP	ADMIXTURE
A. SLAB&FOOTING	3000psi	150pcf	4"	NONE
 - INSPECTION: CONCRETE WITH SPECIFIED STRENGTH GREATER THAN 2500psi SHALL BE CONTINUOUSLY INSPECTED DURING PLACEMENT BY A DEPUTY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE BUILDING DEPT.
 - REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN PREFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:
 - #4 & SMALLER BARS.....GRADE 40
 - #5 & LARGER BARS.....GRADE 60
 - ALL BARS AT CAISSON FOOTING...GRADE 60
 - CEMENT: FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
PIER/CAISSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
 - AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE FOLLOWING:
 - FOUNDATIONS & SLABS 9" OR LESS: 3/4" GRAVEL
 - PIER/CAISSON FOOTING: 1" GRAVEL.
 - WATER: SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN CONSUMPTION.



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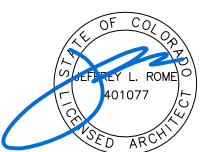
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ANITA JEN	02/22/18
100% CDS	DATE
ANITA JEN	02/22/18
100% CDS WITH STRUCTURALS	DATE
CHRISTINA MICHAUD	01/09/18
CONSTRUCTION	DATE
SITE ACQUISITION	DATE

PROJECT NAME

MICROWAVE UPGRADE

SITE NAME

WILCOX AND COLLEGE

FA NUMBER

10127031

1314 RED CEDAR CIRCLE
FORT COLLINS, COLORADO 80525

DRAWING DATES

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02/22/18	100% FINAL CDS (P1-B2)

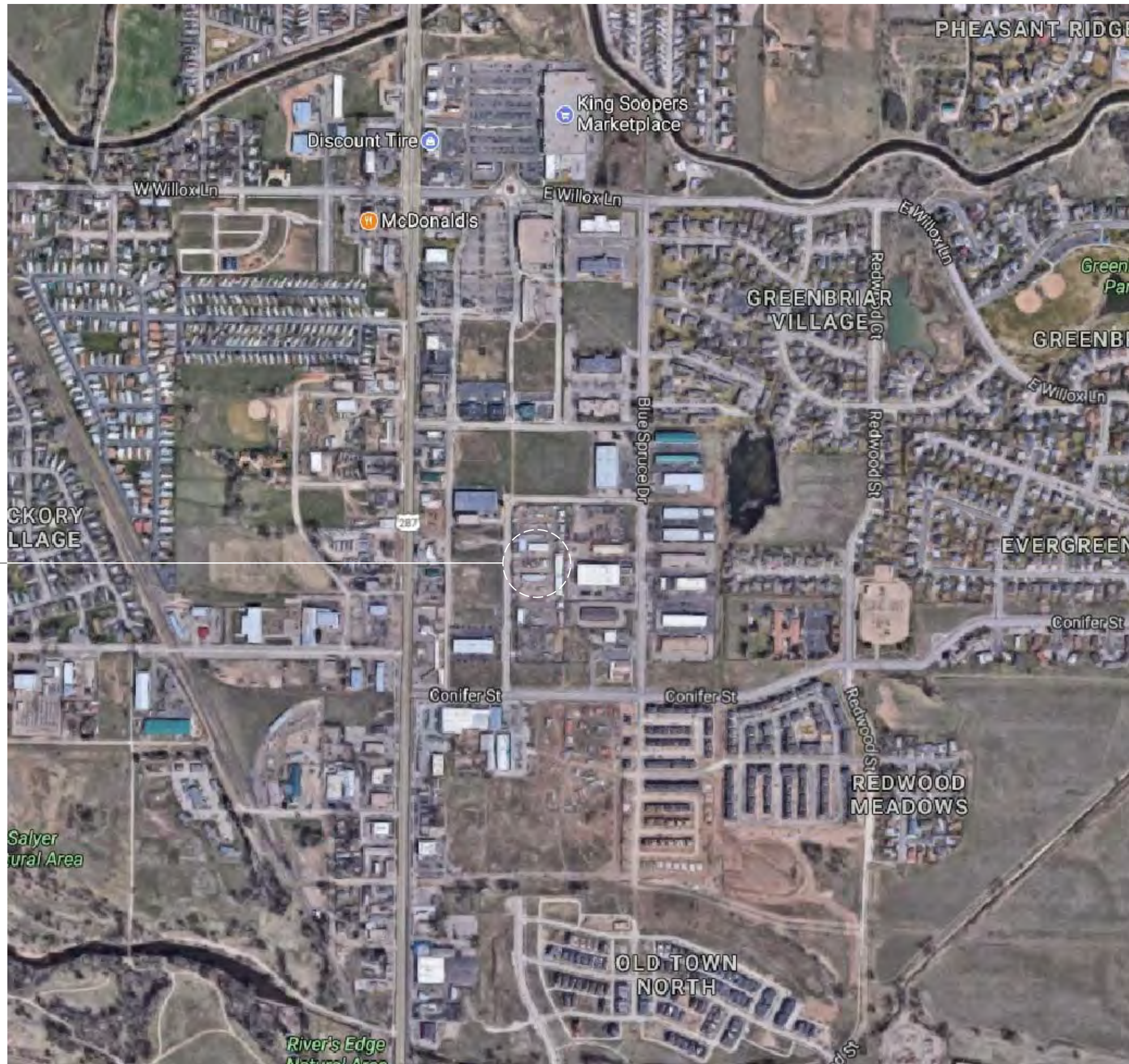
SHEET TITLE

SPECIFICATIONS AND NOTES

T-2

OVERALL SITE PLAN KEYNOTES

1 (E) AT&T LEASE AREA WITHIN (E) COMPOUND; SEE SHEET A-1.1.



OVERALL SITE PLAN

SCALE:
1"=300' 0 75' 150' 300'

1

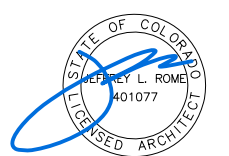


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SHEET TITLE

OVERALL SITE PLAN

A-0

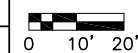
SITE PLAN KEYNOTES

1 (E) AT&T LEASE AREA WITHIN (E) COMPOUND; SEE SHEET A-1.1.



SITE PLAN

SCALE:
1"=20'



1

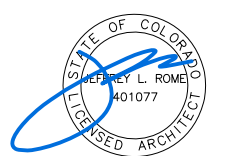


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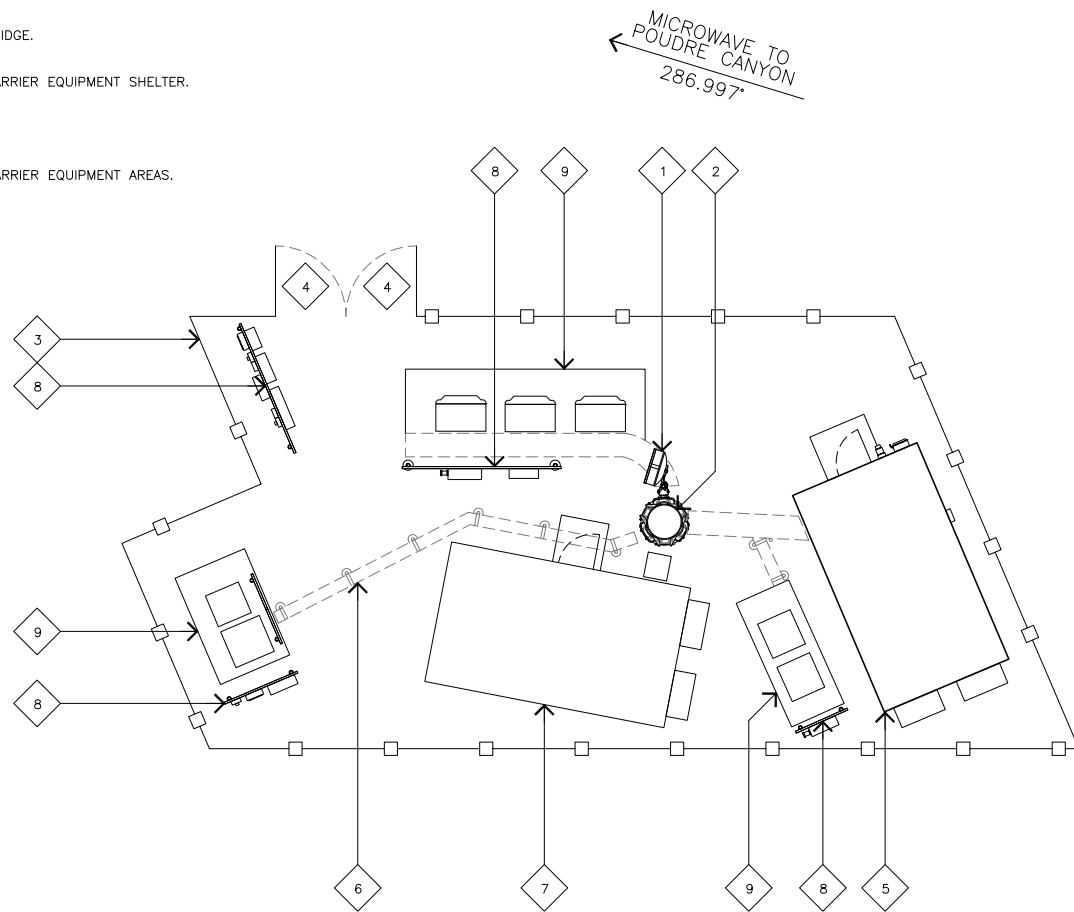
SHEET TITLE

SITE PLAN

A-1

ENLARGED SITE PLAN KEYNOTES

- 1 (N) AT&T 3'-0"Ø MICROWAVE ANTENNA MOUNTED TO (E) MONOPOLE; SEE DETAIL 3/A-3.
- 2 (E) MONOPOLE.
- 3 (E) WOOD FENCE ENCLOSURE.
- 4 (E) ACCESS GATE.
- 5 (E) AT&T EQUIPMENT SHELTER; SEE DETAIL 1/A-1.1.
- 6 (E) CABLE BRIDGE.
- 7 (E) OTHER CARRIER EQUIPMENT SHELTER.
- 8 (E) H-FRAME.
- 9 (E) OTHER CARRIER EQUIPMENT AREAS.

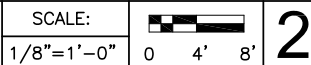


ENLARGED SITE PLAN GENERAL NOTES

- A. OTHER CARRIER ANTENNAS NOT SHOWN FOR CLARITY.
- B. GROUND ALL (N) EQUIPMENT AND COAX PER DETAIL 4/A-3.
- C. OTHER CARRIER ANTENNAS NOT SHOWN FOR CLARITY.
- D. CONTRACTOR TO PROVIDE ALL LABOR TO INSTALL COAX, RETS AND ANTENNAS.
- E. CONTRACTOR TO PROVIDE ALL COAX, CONNECTORS, ANCILLARY EQUIPMENT (INCLUDING WEATHER STRIPPING, GROUND KITS, ETC.).
- F. CONTRACTOR TO COLOR CODE ALL COAX. COLORED BANDS OF TAPE ON COAX IDENTIFY SECTOR, FREQUENCY, TECHNOLOGY, AND TRANSMIT GROUP AS FOLLOWS ON ALL COAX MODIFIED OR INSTALLED ONLY.
- G. WHEN ANTENNA LINES ARE DIPLEXED, THE COLOR CODE OF THE HIGHEST FREQUENCY PREVAILS (I.E. UMTS DIPLEXED WITH TDMA SHOULD HAVE COLOR 4 BANDS).
- H. ALL ANTENNAS AND ANTENNA CABLE SHALL BE FURNISHED BY CONTRACTOR AND INSTALLED BY ANTENNA INSTALLATION CONTRACTOR.
- I. PRIOR TO PLACEMENT OF ANTENNA POLE MOUNTS, THE CONTRACTOR SHALL VERIFY THAT THE AZIMUTH AND DIMENSIONS SHOWN ON THE PLANS MATCH ACTUAL FIELD CONDITIONS. ALLOWABLE TOLERANCE: HORIZONTAL ALIGNMENT = ±5'; VERTICAL ALIGNMENT = ±1'.
- J. ANTENNA INSTALLATION CONTRACTOR SHALL PROVIDE ALL CONDUIT, CABLE TRAY, GROUNDS, ETC. FOR COMPLETE INSTALLATION OF ANTENNAS AND CABLES SHOWN AND INTENDED AS REQUIRED FOR A COMPLETE OPERATING SYSTEM IN ACCORDANCE WITH CONTRACTOR STANDARDS.
- K. IN NO CASE SHALL THERE BE ANY MORE THAN TWO (2) 90° TURNS (OR EQUIVALENT) IN ANY CONTINUOUS LENGTH OF CONDUIT BETWEEN PULL BOXES OR SIMILAR FEATURES.
- L. ANTENNA CONDUIT SHALL ONLY INCLUDE FACTORY-MADE LARGE RADIUS SWEEPS AT ALL CHANGES IN DIRECTION. SWEEP RADIUS SHALL BE 18" MINIMUM ABOVE GROUND AND 36" MINIMUM BELOW GROUND.
- M. CONDUIT SHALL BE 3"Ø MINIMUM. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. ALL EXPOSED CONDUIT ABOVE GRADE LEVEL SHALL BE IMC OR RIGID GALVANIZED. ALL EXPOSED CONDUIT PROTECTED IN A BUILDING OR ON A ROOF SHALL BE EMT OR UV STABILIZED PAINTED SCHEDULE 80 PVC.
- N. IN HIGH TRAFFIC AREAS OR WHERE SUSCEPTIBLE TO DAMAGE CONTRACTOR SHALL PROVIDE FORMED 14 GA. GALVANIZED SHEET METAL COVER OVER COAXIAL CABLE ROUTES. WHERE CABLE IS RUN ON THE WALL, ATTACH UNISTRUT TO WALL AND COVER WITH 14 GA. GALVANIZED FORMED SHEET METAL COVER OR MATERIAL AS DIRECTED BY CONTRACTOR CONSTRUCTION MANAGER.
- O. VERIFY ROUTE AND LENGTH OF CABLE PRIOR TO CUTTING. ADJUST INDICATED ROUTE AS REQUIRED TO CLEAR (E) EQUIPMENT AT FACILITIES.
- P. MAXIMUM LENGTH OF 7/8" COAX CABLE SHALL BE 140'-0". MAXIMUM LENGTH OF 1-1/4" COAX CABLE SHALL BE 190'-0". MAXIMUM LENGTH OF 1-5/8" COAX CABLE SHALL BE 235'-0".
- Q. VERIFY MODEL NUMBERS OF ANTENNAS WITH CONTRACTOR SERVICES.
- R. THE CONTRACTOR SHALL PROVIDE TESTING OF ANTENNAS AND SHALL PROVIDE DOCUMENTATION TO THE CONTRACTOR PROJECT MANAGER.
- S. GENERAL CONTRACTOR TO VERIFY ALL TORQUE TOLERANCES PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

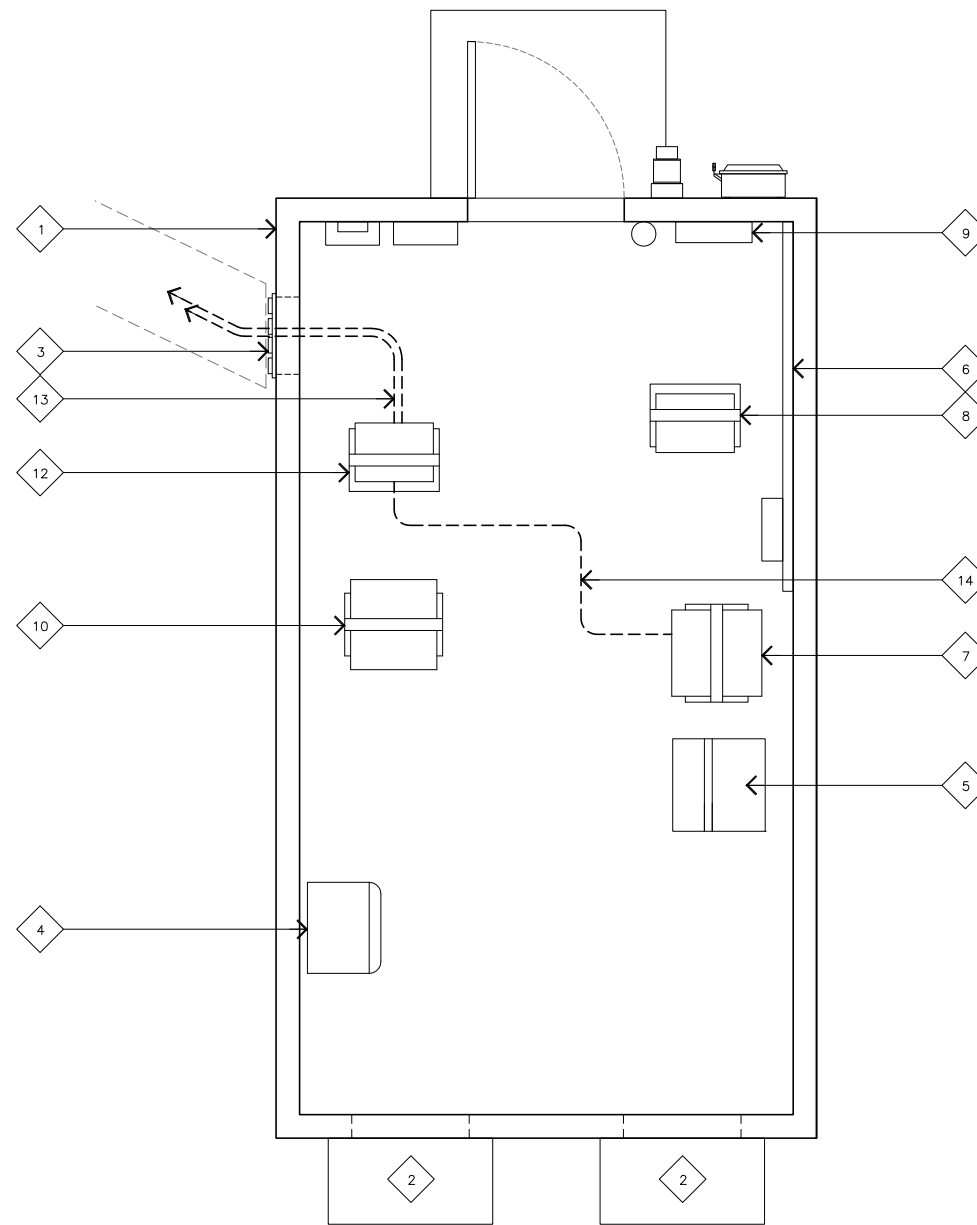


ENLARGED SITE PLAN

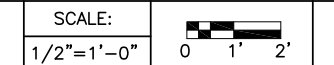


EQUIPMENT PLAN KEYNOTES

- 1 (E) AT&T EQUIPMENT SHELTER.
- 2 (E) AT&T EXTERIOR MOUNTED HVAC UNITS.
- 3 (E) AT&T CABLE ENTRY PORT.
- 4 (E) AT&T GSM EQUIPMENT CABINET.
- 5 (E) AT&T UMTS EQUIPMENT CABINET.
- 6 (E) AT&T TELCO BACKBOARD.
- 7 (E) AT&T DC POWER PLANT.
- 8 (E) AT&T DATA RACK.
- 9 (E) AT&T ELECTRICAL PANEL.
- 10 (E) AT&T BATTERY RACK.
- 11 (E) CABLE TRAY.
- 12 (N) AT&T MICROWAVE RADIO MOUNTED IN (E) DATA RACK.
- 13 (N) (2) EW-90 WAVEGUIDE CABLES.
- 14 (N) AT&T DC CABLE FROM (E) 24VDC POWER CABINET TO (N) -48VDC CONVERTER, IF REQUIRED.



EQUIPMENT PLAN



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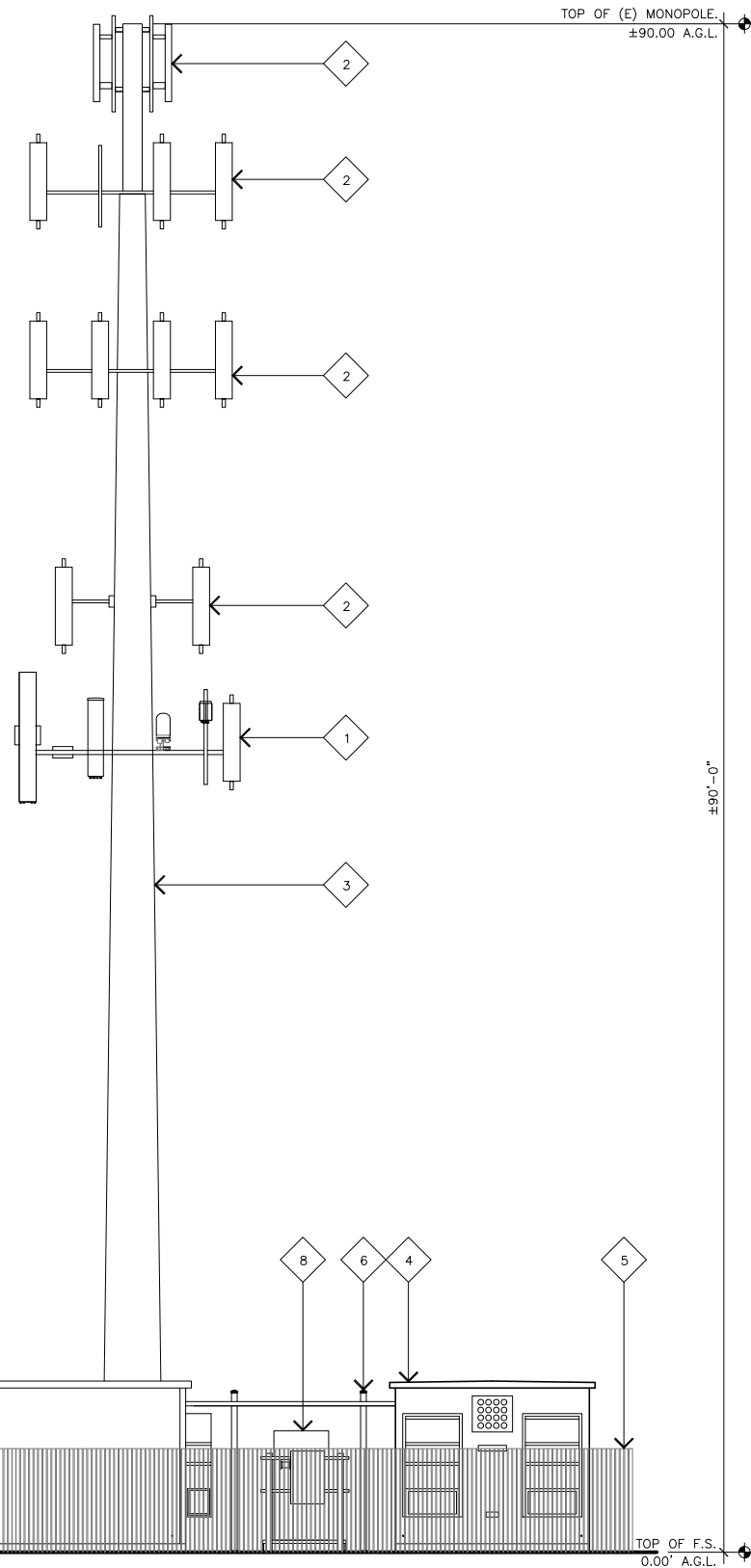
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ENLARGED SITE AND EQUIPMENT PLAN

A-1.1

EXISTING ELEVATION KEYNOTES

- 1 (E) AT&T ANTENNAS MOUNTED ON (E) MONOPOLE.
- 2 (E) OTHER CARRIER ANTENNAS MOUNTED TO (E) MONOPOLE.
- 3 (E) MONOPOLE.
- 4 (E) AT&T EQUIPMENT SHELTER.
- 5 (E) WOOD FENCE ENCLOSURE.
- 6 (E) CABLE BRIDGE.
- 7 (E) OTHER CARRIER EQUIPMENT SHELTER.
- 8 (E) H-FRAME.

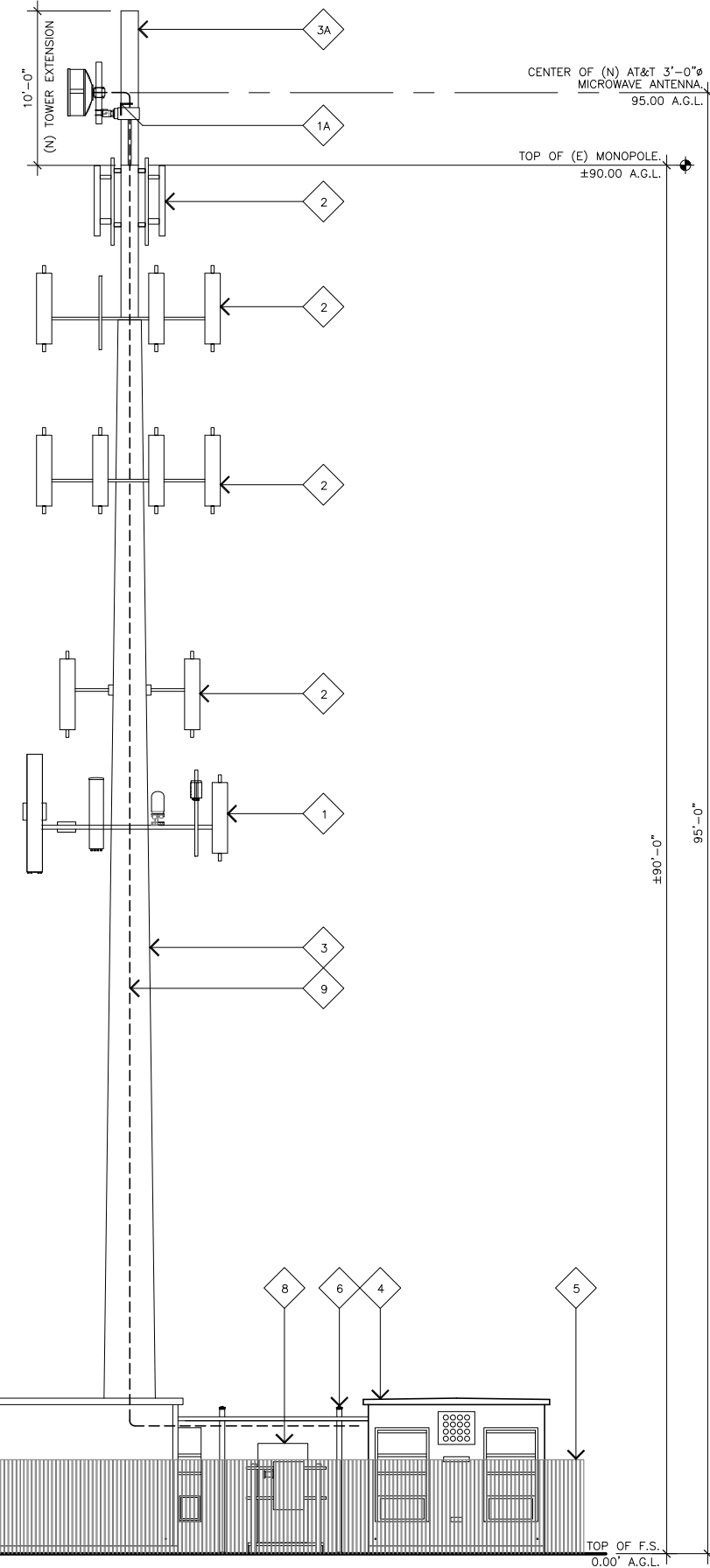


EXISTING SOUTH ELEVATION

SCALE: 3/16"=1'-0" 0 3' 6" **2**

PROPOSED ELEVATION KEYNOTES

- 1 (E) AT&T ANTENNAS MOUNTED ON (E) MONOPOLE.
- 1A (N) AT&T 3'-0" MICROWAVE ANTENNA MOUNTED TO (E) MONOPOLE.
- 2 (E) OTHER CARRIER ANTENNAS MOUNTED TO (E) MONOPOLE.
- 3 (E) MONOPOLE.
- 3A (N) 10'-0" MONOPOLE EXTENSION. SEE REFERENCE SHEETS.
- 4 (E) AT&T EQUIPMENT SHELTER.
- 5 (E) WOOD FENCE ENCLOSURE.
- 6 (E) CABLE BRIDGE.
- 7 (E) OTHER CARRIER EQUIPMENT SHELTER.
- 8 (E) H-FRAME.
- 9 (N) (2) EW-90 WAVEGUIDE CABLE RUNS, PER ATC STRUCTURAL ANALYSIS. INSTALL PROPOSED CABLES INSIDE (E) MONOPOLE.



PROPOSED SOUTH ELEVATION

SCALE: 3/16"=1'-0" 0 3' 6" **1**

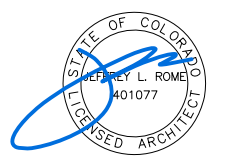


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SITE NAME
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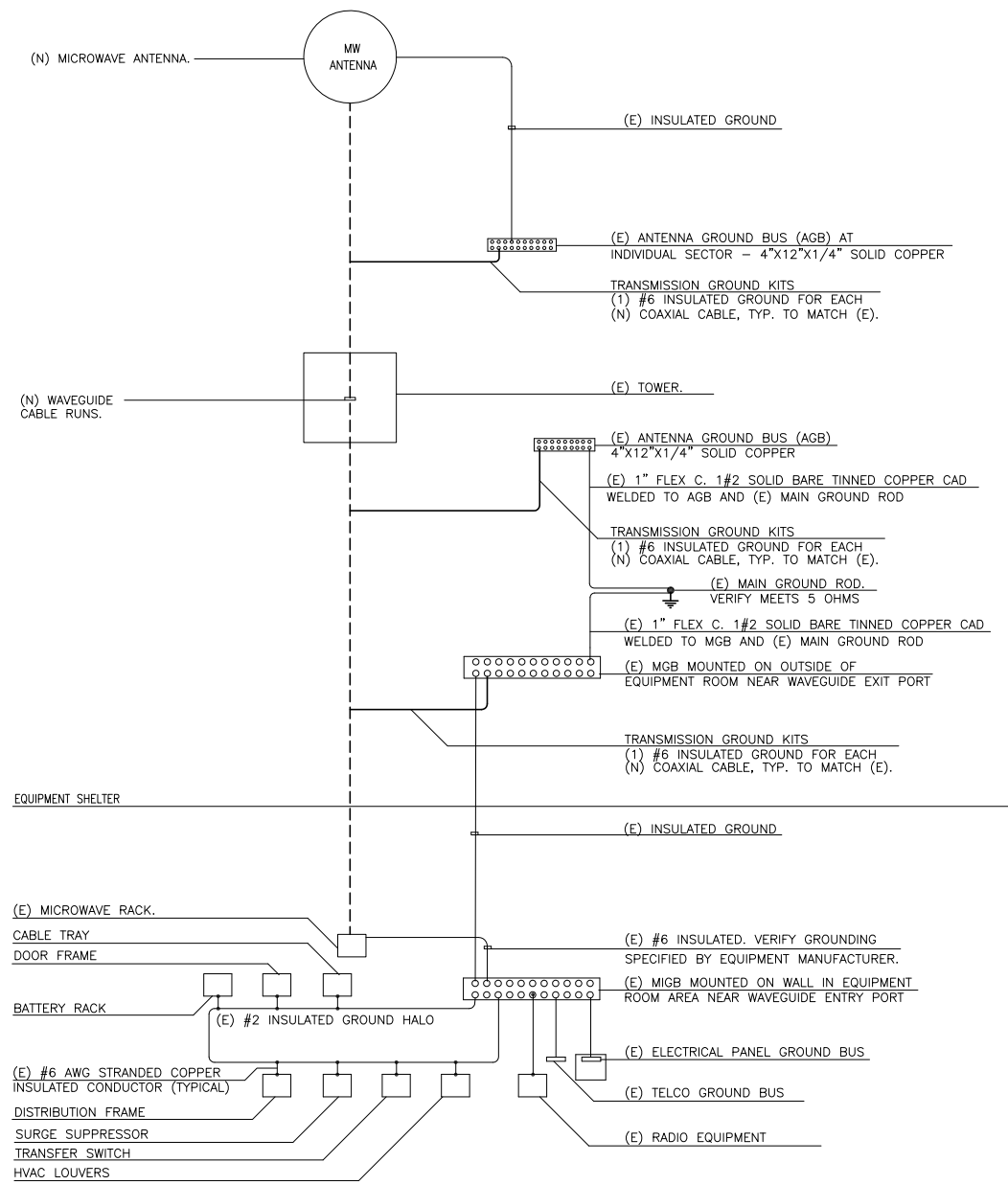
DRAWING DATES

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02/22/18	100% FINAL CDS (P1-B2)

SHEET TITLE

EXISTING & PROPOSED ELEVATIONS

A-2



GENERAL NOTES:

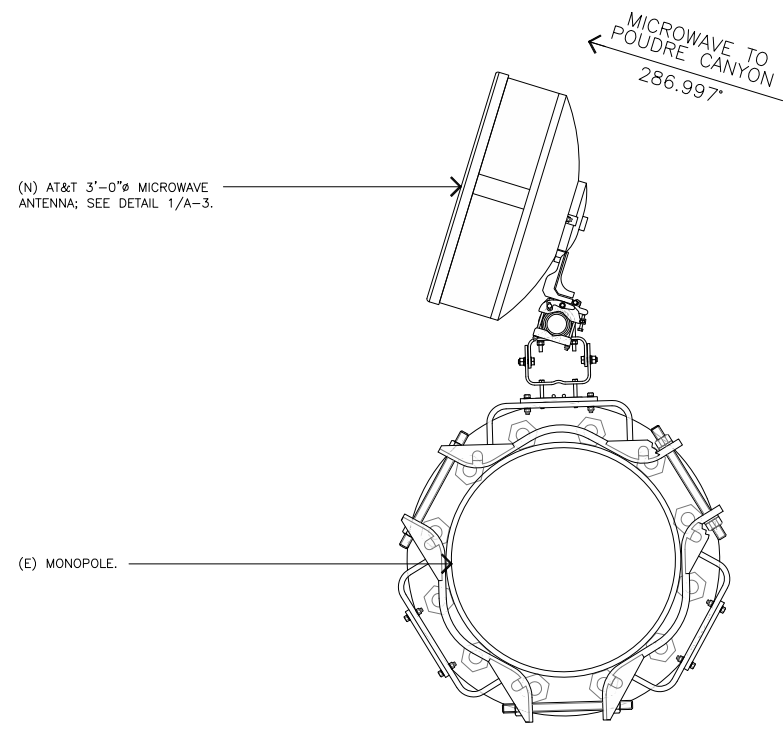
1. SPLICE GROUND CONNECTIONS.
2. FOLLOW COAXIAL CABLE MANUFACTURES RECOMMENDATIONS (TYPICAL)
3. ALL INSULATED GROUND WIRES TO BE STRANDED, AWG WIRE UNLESS NOTED OTHERWISE.
4. THIS IS TYPICAL FOR ONE SECTOR OF ANTENNAS. SEE PLANS FOR NUMBER OF SECTORS.
5. NUMBER OF COAX IS DIAGRAMATIC.
6. EXISTING DIPLEXER'S AND EXISTING TMA'S NOT SHOWN FOR CLARITY.

CABLE & GROUNDING SYSTEM SCHEMATIC

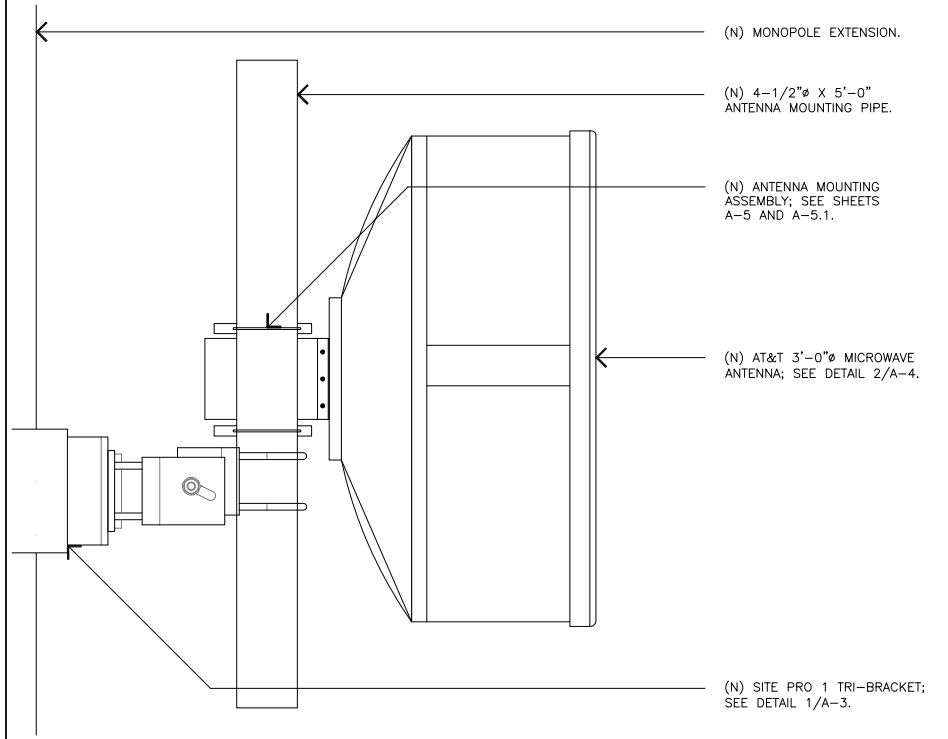
SCALE:
NONE

4

MICROWAVE ANTENNA DETAIL

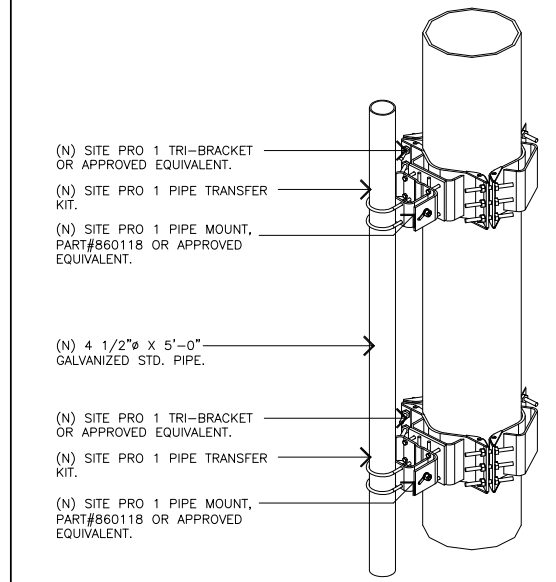


ANTENNA PLAN



SCALE:
NONE

2



SCALE:
NONE

3

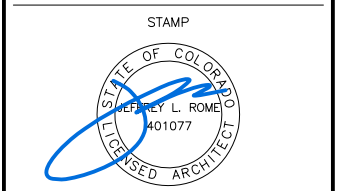
PIPE MOUNT DETAIL

SCALE:
NONE

1

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SHEET TITLE
ANTENNA DETAILS

A-3

Product Specifications

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VHLPX3-11W
1.0 m | 3 ft ValuLine® High Performance Low Profile Antenna

General Specifications

Antenna Type	VHLPX - ValuLine® High Performance Low Profile Antenna
Diameter, nominal	1.0 m 3 ft

Mechanical Specifications

Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±15°
Mounting Pipe Diameter	115 mm 4.5 in
Net Weight	24 kg 53 lb
Side Struts, Included	0
Side Struts, Optional	1 inboard
Wind Velocity Operational	200 km/h 124 mph
Wind Velocity Survival Rating	250 km/h 155 mph

Wind Forces At Wind Velocity Survival Rating

Angle a for MT Max	0 °
Axial Force (FA)	2979 N 670 lbf
Side Force (FS)	936 N 210 lbf
Twisting Moment (MT)	1184 N•m
Weight with 1/2 in (12 mm) Radial Ice	46 kg 101 lb
Zcg with 1/2 in (12 mm) Radial Ice	220 mm 9 in
Zcg without Ice	324 mm 13 in

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Product Specifications



EW90
EW90, HELIAX® Standard Elliptical Waveguide



CHARACTERISTICS

Construction Materials

Jacket Material	PE
Conductor Material	Corrugated copper
Jacket Color	Black

Dimensions

Cable Volume	334.0 L/km 3.6 ft³/kft
Cable Weight	0.48 kg/m 0.32 lb/ft
Diameter Over Jacket (E Plane)	33.50 mm 1.32 in
Diameter Over Jacket (H Plane)	20.30 mm 0.80 in

Environmental Specifications

Installation Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)

General Specifications

Brand	HELIAX®
-------	---------

Mechanical Specifications

Maximum Twist	6.00 °/m 2.00 °/ft
Minimum Bend Radius, Multiple Bends (E Plane)	180.00 mm 7.00 in
Minimum Bend Radius, Multiple Bends (H Plane)	480.00 mm 19.00 in
Minimum Bend Radius, Single Bend (E Plane)	150.00 mm 6.00 in
Minimum Bend Radius, Single Bend (H Plane)	330.00 mm 13.00 in

Standard Conditions

Attenuation, Ambient Temperature	24 °C 75 °F
Average Power, Ambient Temperature	40 °C 104 °F
Average Power, Temperature Rise	42 °C 76 °F

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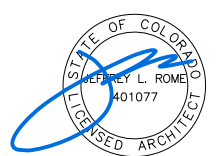
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SPECIFICATIONS

A-4

Installation Instructions

Valuline™ Antenna Mount

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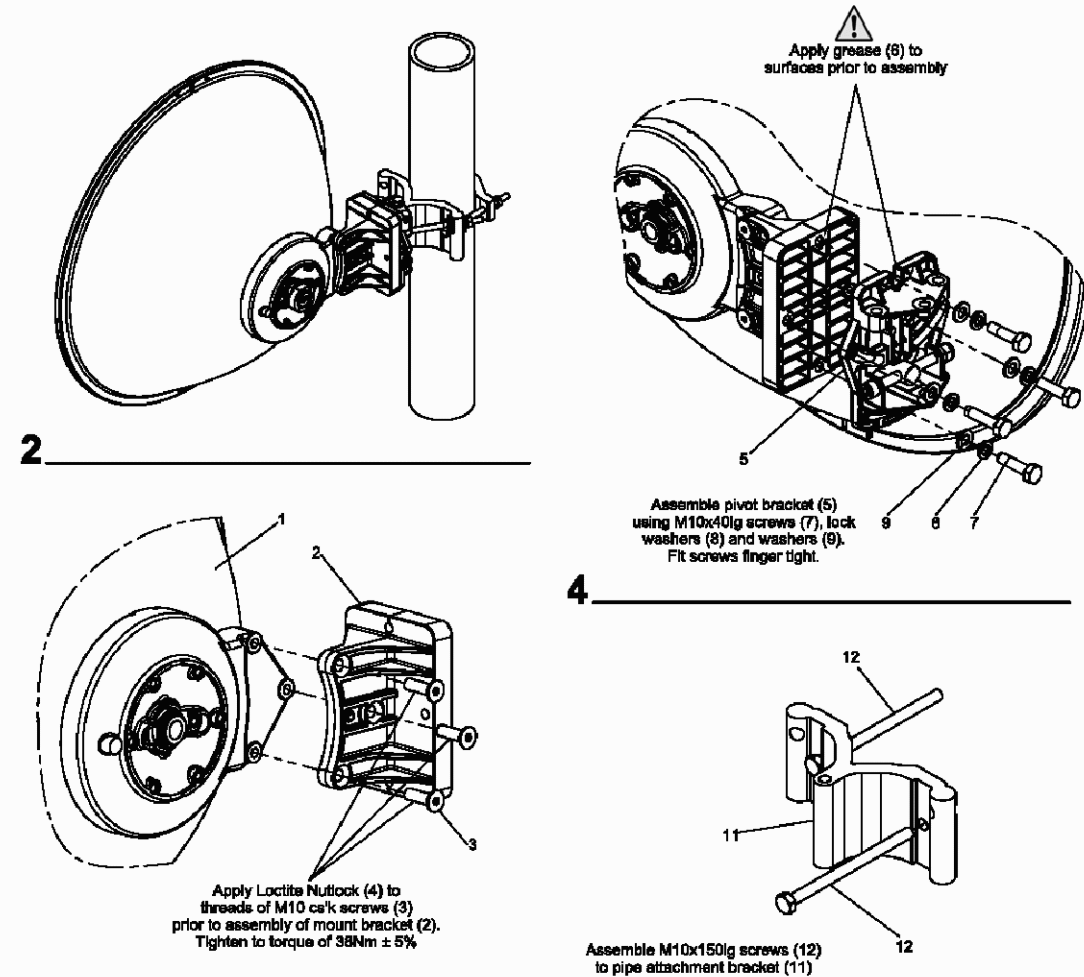
Bulletin 7618088 page 2 of 7

Version 04 Status RE Rev E

Model Version 01 Status RE Rev B

1 _____ 3 _____

Note: Left offset shown



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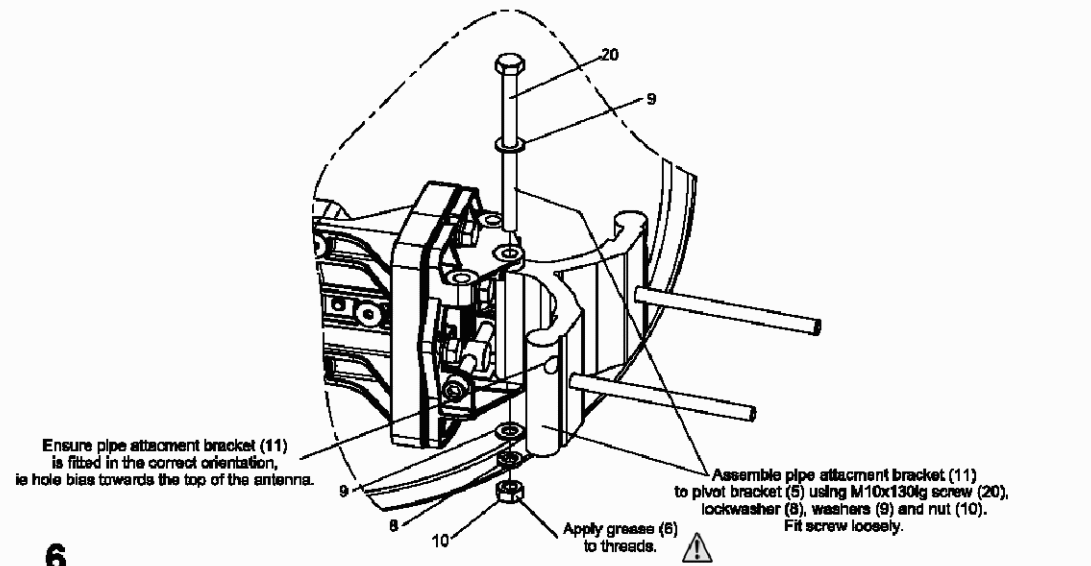
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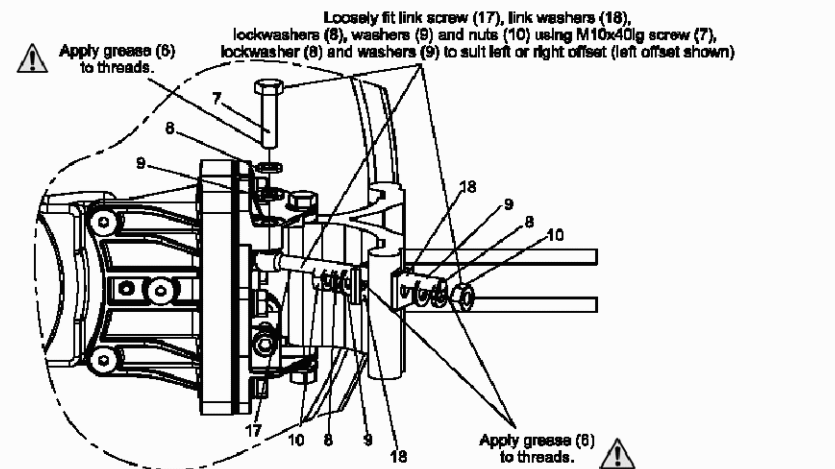
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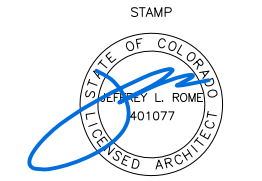
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SHEET TITLE
ANTENNA MOUNTING DETAILS

A-5

Installation Instructions

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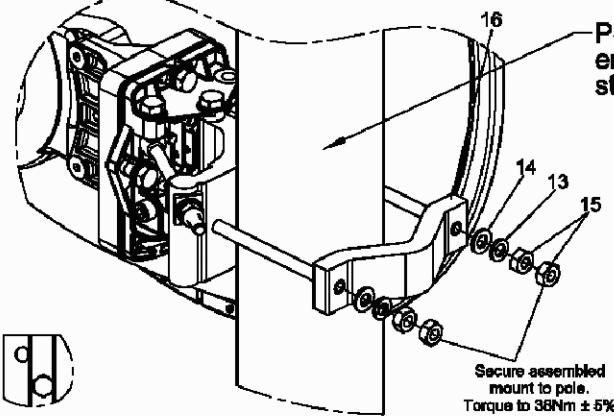
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7

60-120mm pole application

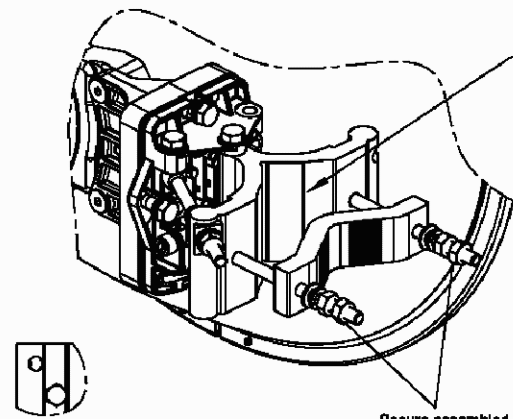


ensure clamp bolts are seated correctly.

Secure assembled mount to pole. Torque to 38Nm ± 5%

7a

50-60mm pole application



ensure clamp bolts are seated correctly.

Secure assembled mount to pole. Torque to 50Nm ± 5%

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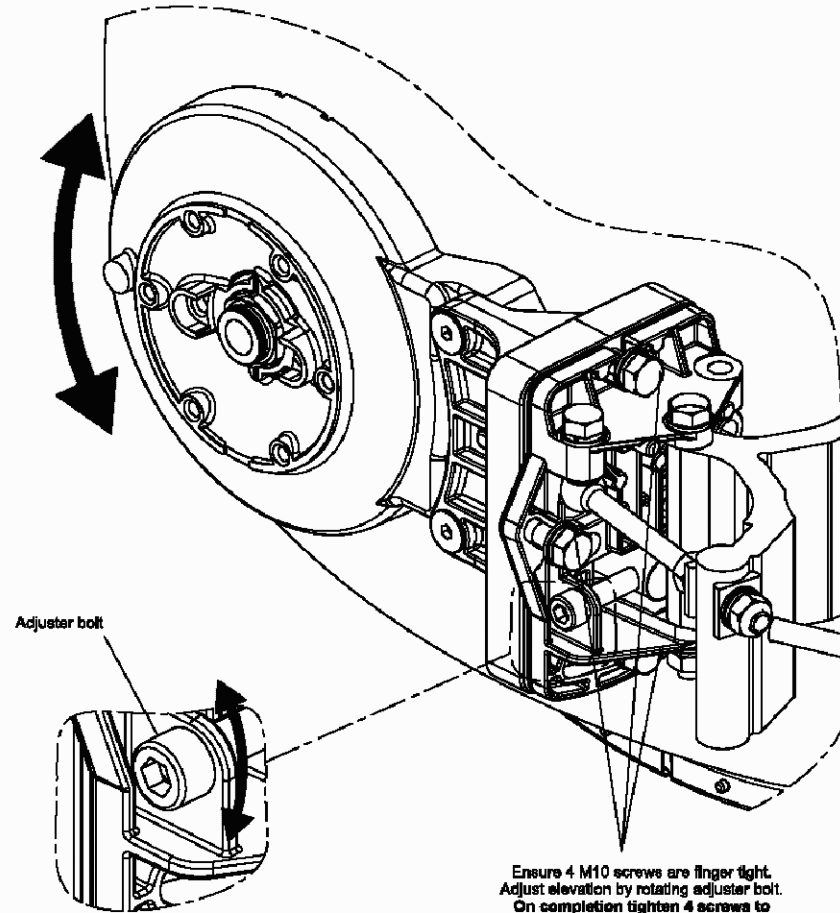
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Elevation Adjustment



Adjuster bolt

Ensure 4 M10 screws are finger tight. Adjust elevation by rotating adjuster bolt. On completion tighten 4 screws to a torque of 22Nm ± 5%

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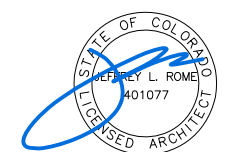
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SHEET TITLE

ANTENNA MOUNTING DETAILS

A-5.1

Installation Instructions

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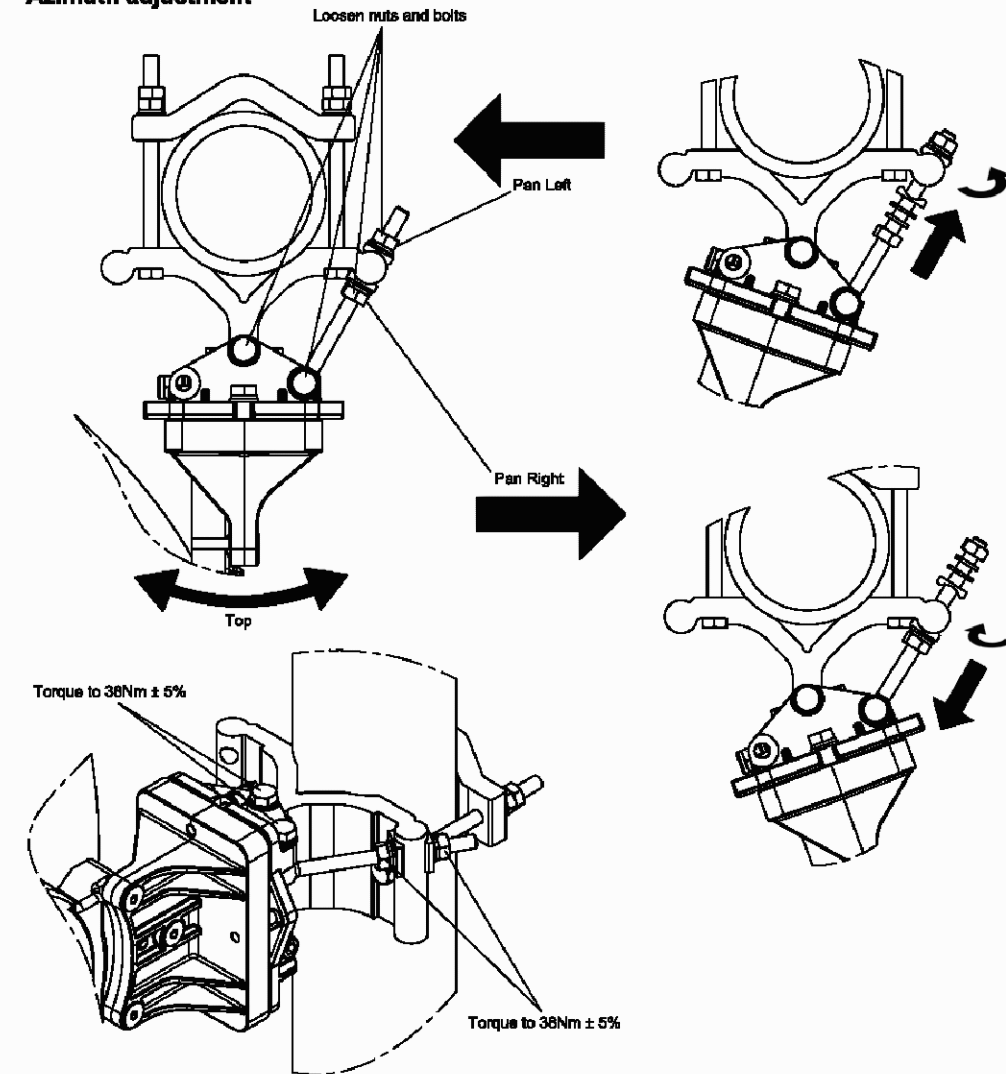
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Azimuth adjustment



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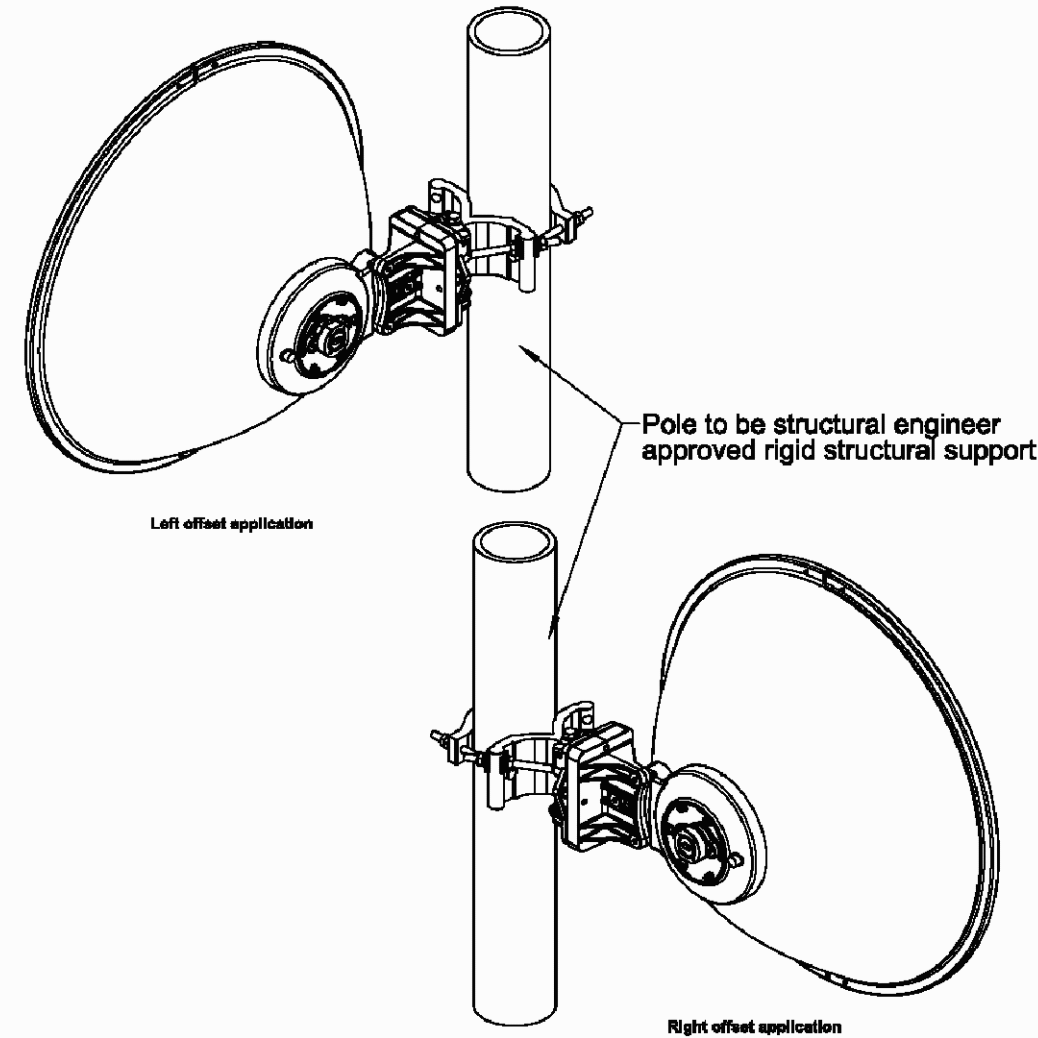
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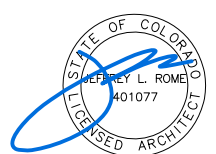
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90% CDS	DATE
ANITA JEN	02/22/18
100% CDS	DATE
ANITA JEN	02/22/18
100% CDS WITH STRUCTURALS	DATE
CHRISTINA MICHAUD	01/09/18
CONSTRUCTION	DATE
SITE ACQUISITION	DATE

PROJECT NAME
MICROWAVE UPGRADE

SITE NAME
WILCOX AND COLLEGE
FA NUMBER
10127031

1314 RED CEDAR CIRCLE
FORT COLLINS, COLORADO 80525

DRAWING DATES	
12/27/17	90% CD REVIEW (P1-B1)
02/22/18	100% FINAL CDS (P1-B2)

SHEET TITLE

ANTENNA MOUNTING DETAILS



302435 - JOSH AMES, COLORADO

90 FT MONOPOLE W/ PROPOSED 10 FT EXTENSION

DESCRIPTION	SIGNATURE	DATE
CONTRACTOR NAME		
CONTRACTOR REPRESENTATIVE (PRINT NAME)		
CONTRACTOR REPRESENTATIVE (SIGNATURE)		
REVELOPMENT P.M. (PRINT NAME)		
REVELOPMENT P.M. (SIGNATURE)		

PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET	SHEET TITLE	REV.
ATC PROJECT NUMBER: 0AA707176_C0_04	THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 0AA707176_C0_02 DATED 01/11/18. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.	B-1	BILL OF MATERIALS	0
CUSTOMER: AT&T MOBILITY		IGN	IBC GENERAL NOTES	0
CUSTOMER SITE NAME: WILCOX AND COLLEGE/DNVR/C03888		A-1	SPECIAL INSPECTION CHECKLIST	0
CUSTOMER SITE NUMBER: COL03988 / 10127031		A-2	MONOPOLE EXTENSION INSTALLATION DETAILS	0
SITE ADDRESS: 1314 RED CEDAR CIRCLE FORT COLLINS, CO 80524		F-1	MONOPOLE EXTENSION WELDMENT FABRICATION DETAILS	0
DATE: 02/09/18		F-1A	MONOPOLE EXTENSION WELDMENT FABRICATION DETAILS (CONT'D)	0
GEOGRAPHIC COORDINATES: 40.0488056 -105.0741839		CP21BC	CAP PLATE FABRICATION DETAILS	0

302435
JOSH AMES
COLORADO
1314 RED CEDAR CIRCLE
FORT COLLINS, CO 80524

Colorado Licensed Professional Engineer
PE 0048739

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COVER

SHEET NUMBER: 0
REVISION: 0

BILL OF MATERIALS

QUANTITY REQUIRED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTION	LENGTH	SHEET LIST	PART WEIGHT	WEIGHT (lb)	NOTES	
EXTENSION MATERIAL & HARDWARE									
1	1	302435-1	18" OD PIPE EXTENSION WELDMENT	10'-0"	A-2, F-1, F-1A	1034.5	1035		
1	1	CP21BC	R 1/8" X 24"	2'-0"	A-2, CP21BC	19.8	17		
2	2		BOLT, 3/4"Ø ASTM A325	3"				H&H-LKWFV/ GALVANIZED	
12	13		BOLT, 3/4"Ø ASTM A325	4 1/2"				H&H / GALVANIZED	
12	13		FLAT WASHER, 3/4"Ø ASTM F430					GALVANIZED	
12	13		DII SQUIRTER WASHER, 3/4"Ø (A325 RA TED)					GALVANIZED	
9	10		STEP BOLT, 5/8"Ø ASTM A448 W/ 4 1/2" MIN. UNTH-READED SHANK	8"				(2) H&H-LKWFV/ GALVANIZED	
1	1		SAFETY CLAMP SYSTEM 3/8"	100'-0"				STAINLESS STEEL	
							TOTAL WEIGHT (lb)	1,052	PAGE 1 OF 1

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PE 0048739

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BILL OF MATERIALS

SHEET NUMBER: B-1
REVISION: 0

GENERAL

- ALL WORK TO BE COMPLETED PER APPLICABLE LOCAL, STATE, FEDERAL CODES AND ORDINANCES AND COMPLY WITH ATC MANUFACTURER SPECIFICATIONS FOR WIRELESS TOWER SITES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ADOPTING ALL REQUIRED PERMITS.
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EMPLOYED IN TOWER AND FOUNDATION CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW MANUFACTURER DETAILS FOR THIS JOB.
- ANY SUBSTITUTIONS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SUBJECT TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
- ANY MANUFACTURED DESIGN ELEMENTS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SUBJECT TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT AND APPROVED BY THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL NECESSARY BRACING, BRACING TEMPORARY SUPPORTS, ETC. NECESSARY PER APPLICABLE AND APPLICABLE AS SHOWN TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
- CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

WELDING

- ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS WHO CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.
- ALL WELDS SHALL BE INSPECTED VISUALLY BY ENGINEER OF RECORD. 5% OF WELDS SHALL BE INSPECTED WITH THE ASSISTANCE OF MAGNETIC PARTICULATE (MPI) IF VISUAL INSPECTION IS FOUND TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1.
- INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER. ALL WELDS SHALL BE INSPECTED WITH THE ASSISTANCE OF MAGNETIC PARTICULATE (MPI) IF VISUAL INSPECTION IS FOUND TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1.
- ALL ELECTRODES SHALL BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOT OTHERWISE SPECIFIED.
- ALL WELDING ON TOWER TUBES SHALL BE DONE WITH EPOXY ELECTRODES. ALL WELDING ON FOUR SQUIRTER WASHERS SHALL BE DONE WITH EPOXY ELECTRODES. CONTRACTOR SHALL DRINK OFF GALVANIZING 10" BEYOND ALL WELDS SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL CRACKS AND WELDED SURFACES WITH EPOXY GROUT. GROUT SHALL BE COMPATIBLE WITH WELDS AND MANUFACTURER'S RECOMMENDATIONS.
- BEFORE FIELD WELDING, GALVANIZED MATERIAL, CONTRACTOR SHALL DRINK OFF GALVANIZING 10" BEYOND ALL WELDS SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL CRACKS AND WELDED SURFACES WITH EPOXY GROUT. GROUT SHALL BE COMPATIBLE WITH WELDS AND MANUFACTURER'S RECOMMENDATIONS.

BOLT TIGHTENING PROCEDURE

- STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RECOMMENDED SPECIFICATIONS.
- FLANGE BOLTS SHALL BE INSTALLED AND TIGHTENED USING CORRECT TENSION INDICATOR (DTI) SQUIRTER WASHERS OR SQUIRTER WASHERS THAT ARE NOT INSTALLED AND/OR ORIENTED TIGHTENED PER MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT TIGHTENING.
- IN USE OF DTI SQUIRTER WASHERS, FLANGE BOLTS MAY BE TIGHTENED USING AIR/OIL ROSS TURN-OF-MOMENT METHOD. PERFORM APPROVAL BY THE ENGINEER OF RECORD (EOR) TIGHTEN FLANGE BOLTS USING THE CHECK SHEET.

STRUCTURAL STEEL

- ALL STRUCTURAL FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATION, LATEST EDITION.
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A153. EXPOSED STEEL, WASHERS AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B36.
- ALL UNBOLTED SHALL BE ATTM AS OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
- FIELD CUT END: EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GROUND SURFACES WHERE EXISTING PART OF GALVANIZATION REMOVAL HAS OCCURRED SHALL BE REPAIRED WITH: (1) BRUSHED COATS OF ZINC-SULFURIC ACID GALVANIZING COMPOUND PER ASTM A153 AND MANUFACTURER'S RECOMMENDATIONS.
- ALL STRUCTURAL STEEL MEMBERS IN THE CONCRETE SHALL BE APPLIED WITH: (1) BRUSHED COATS OF POLYURETHANE OR EQUIVALENT. REFER TO THE MANUFACTURER'S PREPARATION FOR SURFACE PREPARATION AND APPLICATION. APPLICATION OF POLYURETHANE OR EQUIVALENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES AS DEFINED BY AISC UNLESS NOTED OTHERWISE.

MAXIMUM ALLOWABLE ANGLE CLIP

AREA OF ANGLE TO BE CLIPPED

PAINT

- ALL REQUIRED CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FPA ADVISORY CIRCULAR AC 70-14.

APPLICABLE CODES AND STANDARDS

- AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
- INTERNATIONAL BUILDING CODE.
- 2018 AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, LATEST EDITION.
- ACI 308.1R CONCRETE REPAIRING AND REPAIRING MANUAL OF STANDARD PRACTICE, LATEST EDITION.
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
- AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

SPECIAL INSPECTION

- A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH ACI 308.1R SECTION 10.5 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
 - STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY) IN HIGH-STRENGTH BOLTS. PERIODIC INSPECTION OF AS-BUILT EXTENSION FLANGE BOLTS TO BE TIGHTENED PER TURN-OF-THE-MUTY METHOD.
- THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH ACI 308.1R SECTION 10.5, UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTION.

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IBC GENERAL NOTES

SHEET NUMBER: 0
REVISION: 0

MODIFICATION INSPECTION NOTES

THE SPECIAL INSPECTION (SI) PROCEDURE IS INTENDED TO CONFIRM THAT CONSTRUCTION AND INSTALLATION MEETS ENGINEERING DESIGN, AITC PROCEDURES AND AITC STANDARD SPECIFICATIONS FOR WIRELESS TOWER SITES.

TO ENSURE THAT THE REQUIREMENTS OF THE SI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR AND THE INSPECTOR BEIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED FROM AMERICAN TOWER CORPORATION AND IT IS EXPECTED THAT EACH PARTY WILL PROACTIVELY REACH OUT TO THE OTHER PARTY, IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR AMERICAN TOWER POINT OF CONTACT.

SPECIAL INSPECTOR

THE SPECIAL INSPECTOR IS REQUIRED TO CONTACT THE GENERAL CONTRACTOR AS SOON AS RECEIVING A PO FROM ATC. UPON RECEIVING AND FROM ATC THE SPECIAL INSPECTOR AT A MINIMUM SHALL:

- REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.
- WORK WITH THE GENERAL CONTRACTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- ADVISE AMERICAN TOWER OF ANY CONCERNS WITH THE SCOPE OF WORK OR PROJECT COMMITMENT MUST BE RELAYED TO THE ATC POINT OF CONTACT IMMEDIATELY.

THE SPECIAL INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR INSPECTION AND TEST REPORTS, REVIEWING THESE DOCUMENTS FOR CONFORMANCE TO CONTRACT DOCUMENTS, CONDUCTING THE FIELD INSPECTIONS, AND SUBMITTING THE SI REPORT TO AMERICAN TOWER CORPORATION.

GENERAL CONTRACTOR

THE GENERAL CONTRACTOR IS REQUIRED TO CONTACT THE SI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.
- WORK WITH THE SI TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS.

THE GENERAL CONTRACTOR SHALL PREPARE AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE SI CHECKLIST.

SPECIAL INSPECTION CHECKLIST

INSPECTION DOCUMENT	DESCRIPTION	INSPECTION TESTING REQUIRED	RESPONSIBILITY	SI REVIEW REQUIRED			INSPECTION FREQUENCY
				PRE-CO	DURING CO	POST CO	
SPECIAL INSPECTION FIELD WORK & REPORT	DOCUMENTATION AND SITE VISIT CONDUCTED BY AN ATC APPROVED SPECIAL INSPECTOR AS REQUIRED BY ATC AND OTHER AUTHORIZED HAVING JURISDICTION. INSPECTOR PARAMETERS TO FOLLOW ATC'S STANDARD SPECIFICATIONS FOR WIRELESS TOWER SITES.	✓	SI			✓	
ENGINEERING ASSEMBLY DRAWINGS	GC SHALL SUBMIT DRAWINGS TO SI FOR INCLUSION IN SI REPORT.	✓	GC	✓			
FABRICATED MATERIAL VERIFICATION & INSPECTION	MPI AND DRILL CERTIFICATIONS FOR SUPPLIED MATERIALS GC SHALL SUBMIT WITH REPORTS TO BE INCLUDED IN SI REPORT WHEN REQUIRED BY AITC.	✓	SI	✓			
CERTIFIED WELD INSPECTION	INSPECTION AND REPORT OF STRUCTURAL WELDING PERFORMED DURING PROJECT COMPLETED BY A CMAA AND INCLUDED WITH SI REPORT.	✓	SI/TA				
FOUNDATION INSPECTION & VERIFICATION	VISUAL OBSERVATION AND APPROVAL OF FOUNDATION EXCAVATION, REBAR PLACEMENT, CHAIRS/SUPPORTS/BRACES PLACEMENT, AND ANCHOR TEMPLATE AND ANCHOR PLACEMENT - TO BE APPROVED PRIOR TO CONCRETE POUR AND DOCUMENTED IN SI REPORT.	✓	SI/TA				
ANCHOR WOOD ANCHOR OVERHEAD PULL-OUT TEST	PULL TESTING OF INSTALLED ANCHORS TO BE COMPLETED AND DOCUMENTED IN SI REPORT.	✓	SI/TA				
CONCRETE INSPECTION & VERIFICATION	CONCRETE MIX DESIGN, SLUMP TEST, COMPRESSIVE TESTING, AND SAMPLING TECHNIQUES ARE TO BE PROVIDED FOR INCLUSION IN THE SI REPORT. SI SHALL VERIFY CONCRETE PLACEMENT AS REQUIRED BY THE DESIGN DOCUMENTS. INSPECTION FREQUENCY IS UNLESS OTHERWISE NOTED.	✓	SI/TA				
EMBEDDED ANCHOR BOLT EMBEDMENT - EPOXY/GROUT	ANCHOR BOLT EMBEDMENT HOLES, EPOXY/GROUT TYPE, INSTALLATION TEMPERATURE AND INSTALLATION SHALL BE TESTED.	✓	SI/TA				
BASE PLATE GROUT INSPECTION & VERIFICATION	BASE PLATE GROUT TYPE AND PLACEMENT SHALL BE CONFIRMED BY THE SI AND INCLUDED IN THE SI REPORT.	✓	SI/TA				
EMBEDMENT INSPECTION & VERIFICATION	EXCAVATION, FILL, SLOPE, GRADE AND OTHER EXISTING/REMOVED SURFACES SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT.	✓	SI/TA				
CONTRACTOR VERIFICATION	CONTRACTOR SHALL PROVIDE AN INDEPENDENT THIRD PARTY CERTIFIED INSPECTOR (WHICH PROVIDES) TEST RESULTS FOR CONSTRUCTION TESTING OF SOILS IN PLACE TO ATTM STANDARDS.	✓	SI/TA				
GROUND TESTING & VERIFICATION	GC SHALL PROVIDE DOCUMENTATION SHOWING THAT THE SOILS MEET THE SYSTEM REQUIREMENTS. REFER TO THE DESIGN OF NOT MORE THAN THE REQUIREMENTS - 10.0. PER THE ATC CONSTRUCTION SPECIFICATION ANCHOR SECTION 2.1. THIS DOCUMENTATION MUST BE AN INDEPENDENT CERTIFICATION.	✓	SI				
STEEL CONSTRUCTION INSPECTION & VERIFICATION	VISUAL OBSERVATION AND APPROVAL OF STEEL CONSTRUCTION TO BE PERFORMED BY THE SI. INSPECTION TO INCLUDE VERIFICATION OF NEW CONSTRUCTION OR MODIFICATION OF EXISTING CONSTRUCTION PER ENGINEERED PLANS. DETAILED FABRICATION SHALL BE INCLUDED IN SI REPORT.	✓	SI			✓	✓
ON-SITE GOLD GALVANIZING VERIFICATION	SI SHALL VERIFY WITH GC ALL GOLD GALVANIZING TYPE AND APPLICATION AND HOLDING SLURRY IN SI REPORT.	✓	SI				
GC AS-BUILT DRAWINGS WITH CONSTRUCTION REVISIONS	GC SHALL PROVIDE EVIDENCE OF PROPER CUT, TENSIONING AND TOWER FLANGE PER PLANS. SI SHALL VERIFY AND INCLUDE PLANS AND TENSION REPORTING IN SI REPORT.	✓	GC				
AS-BUILT DRAWINGS WITH INSPECTION RED-LINES (AS REQUIRED)	GC SHALL SUBMIT AS-BUILT DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS WITH SI FOR APPROVAL/REVIEW AND INCLUSION IN SI REPORT.	✓	SI				
TA INSPECTION	SI SHALL COMPLETE TA INSPECTION AND PROVIDE SEPARATE TA INSPECTION DOCUMENTATION TO ATC OR	✓	SI				
PHOTOGRAPHS	PHOTOGRAPHS (EVIDENCE OF SPECIAL INSPECTION ON-SITE OBSERVATION AND TEST) SHALL BE PROVIDED TO ATC AND INCLUDED IN SI REPORT. COMPLETE PHOTO LOG IS TO BE PROVIDED WITH PHOTOGRAPHS OR OTHER ACCEPTABLE EVIDENCE OF PROPER INSTALLATION IF PERIODIC INSPECTION FREQUENCY IS ACCEPTABLE. THE GC AND SI SHALL FOLLOW UP TO OBTAIN EVIDENCE OF PROPER CONSTRUCTION AND LIST THE NUMBER OF SI SITE VISITS REQUIRED.	✓	SI/TA				
TABLE KEY:							
SI - ATC APPROVED SPECIAL INSPECTOR	GC - CONSTRUCTION						
SI/TA - GENERAL CONTRACTOR	GM - CONSTRUCTION MANAGER						
TA - 3RD PARTY TESTING AGENCY	ATC - AMERICAN TOWER CORPORATION						

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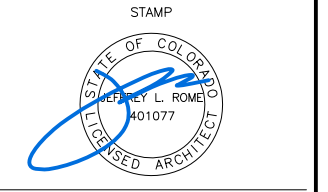
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SPECIAL INSPECTION CHECKLIST

SHEET NUMBER: SIC
REVISION: 0

Jeffrey Rome | ASSOCIATES
architecture | telecommunications
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Irvine, California 92617
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PROPRIETARY INFORMATION
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APPROVALS

ANITA JEN	12/29/17
90% CDS	DATE
ANITA JEN	02/22/18
100% CDS	DATE
ANITA JEN	02/22/18
100% CDS WITH STRUCTURALS	DATE
CHRISTINA MICHAUD	01/09/18
CONSTRUCTION	DATE
SITE ACQUISITION	DATE

PROJECT NAME
MICROWAVE UPGRADE

SITE NAME
WILCOX AND COLLEGE

FA NUMBER
10127031

1314 RED CEDAR CIRCLE
FORT COLLINS, COLORADO 80525

DRAWING DATES
12/27/17 90% CD REVIEW (P1-B1)
02/22/18 100% FINAL CDS (P1-B2)

SHEET TITLE
REFERENCE SHEET

REF-1

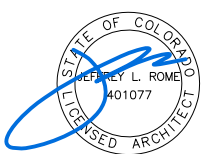


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STAMP



PREPARED FOR



APPROVALS

ANITA JEN	12/29/17
90% CDS	DATE
ANITA JEN	02/22/18
100% CDS	DATE
ANITA JEN	02/22/18
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CHRISTINA MICHAUD	01/09/18
CONSTRUCTION	DATE
SITE ACQUISITION	DATE

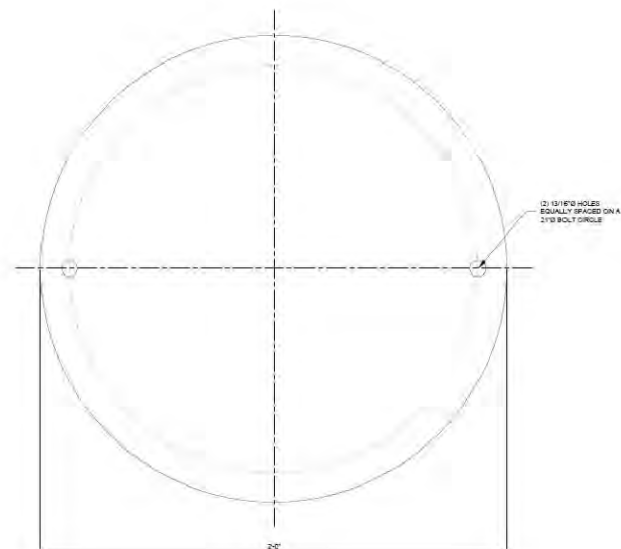
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MICROWAVE UPGRADE
 SITE NAME
WILCOX AND COLLEGE
 FA NUMBER
10127031
 1314 RED CEDAR CIRCLE
 FORT COLLINS, COLORADO 80525

DRAWING DATES	
12/27/17	90% CD REVIEW (P1-B1)
02/22/18	100% FINAL CDS (P1-B2)

SHEET TITLE

REFERENCE SHEET

REF-3



CP21BC
CAP PLATE



AMERICAN TOWER
 ATC TOWER SERVICES, LLC
 5400 REDBERRY PARKWAY
 SUITE 300
 DARY, MO 63015
 PHONE: (936) 488-2112

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	CGM	02/22/18

ATC SITE NUMBER:
 302435
 ATC SITE NAME:
 JOSH AMES
 COLORADO
 SITE ADDRESS:
 1314 RED CEDAR CIRCLE
 FORT COLLINS, CO 80524



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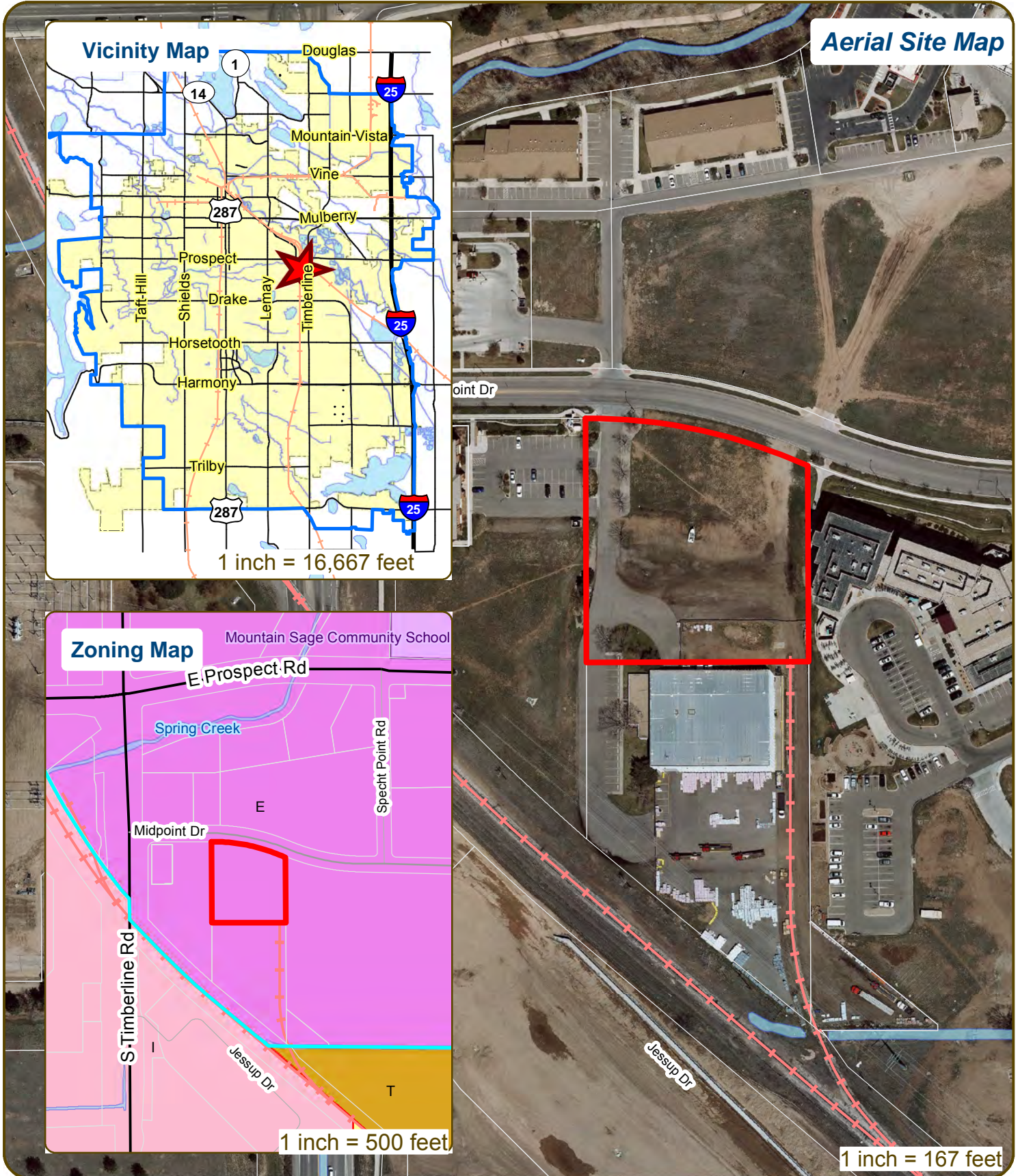
DRAWN BY:	CGM
APPROVED BY:	HEP/DCI
DATE DRAWN:	02/09/18
ATC JOB NO:	04470718_0424

CAP PLATE
 FABRICATION DETAILS

SHEET NUMBER:	0
REVISION:	0

CP21BC	FL 1/2" X 24"	2'-0"	ROUND	16.0#	16.8#
PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
MATERIAL: A36		FINISH: GALVANIZED		HOLES: AS NOTED	

2155 Midpoint Dr Construction Materials Distribution



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CONCEPTUAL REVIEW: APPLICATION

General Information

All proposed development projects begin with Conceptual Review. Anyone with a development idea can schedule a Conceptual Review meeting to get feedback on prospective development ideas. At this stage, the development idea does not need to be finalized or professionally presented. However, a sketch plan and this application must be submitted to City Staff prior to the Conceptual Review meeting. The more information you are able to provide, the better feedback you are likely to get from the meeting. Please be aware that any information submitted may be considered a public record, available for review by anyone who requests it, including the media.

Conceptual Reviews are scheduled on three Monday mornings per month on a "first come, first served" basis. One 45 meeting is allocated per applicant and only three conceptual reviews are done each Monday morning. Conceptual Review is a free service. Complete applications and sketch plans must be submitted to City Staff no later than 5 pm, two Tuesdays prior to the meeting date. Application materials must be e-mailed to currentplanning@fcgov.com. If you do not have access to e-mail, other accommodations can be made upon request.

At Conceptual Review, you will meet with Staff from a number of City departments, such as Community Development and Neighborhood Services (Zoning, Current Planning, and Development Review Engineering), Light and Power, Stormwater, Water/Waste Water, Advance Planning (Long Range Planning and Transportation Planning) and Poudre Fire Authority. Comments are offered by staff to assist you in preparing the detailed components of the project application. There is no approval or denial of development proposals associated with Conceptual Review. At the meeting you will be presented with a letter from staff, summarizing comments on your proposal.

BOLDED ITEMS ARE REQUIRED *The more info provided, the more detailed your comments from staff will be.*

Contact Name(s) and Role(s) (Please identify whether Consultant or Owner, etc) _____

Deanne Frederickson, Consultant, For Dohn Construction / Allied Building

Business Name (if applicable) Baseline Engineering

Your Mailing Address 1950 Ford Street, Golden, Colorado 80401

Phone Number 970 534 9095 Email Address deanne.frederickson@baselinecorp.com

Site Address or Description (parcel # if no address) 2155 Midpoint Drive, FC, 80525

Description of Proposal (attach additional sheets if necessary) Develop lot to include 165 x 40' Lein-To (open on one side) structure and yard for distribution

of roofing materials. Trips include 20-25 employees / 20 daily deliveries

Proposed Use Materials Distribution Existing Use Vacant Lot

Total Building Square Footage 6,600 S.F. Number of Stories 1 Lot Dimensions 281 x 284

Age of any Existing Structures no existing structures on the site

Info available on Larimer County's Website: http://www.co.larimer.co.us/assessor/query/search.cfm

If any structures are 50+ years old, good quality, color photos of all sides of the structure are required for conceptual.

Is your property in a Flood Plain? [] Yes [X] No If yes, then at what risk is it? _____

Info available on FC Maps: http://gisweb.fcgov.com/redirect/default.aspx?layerTheme=Floodplains.

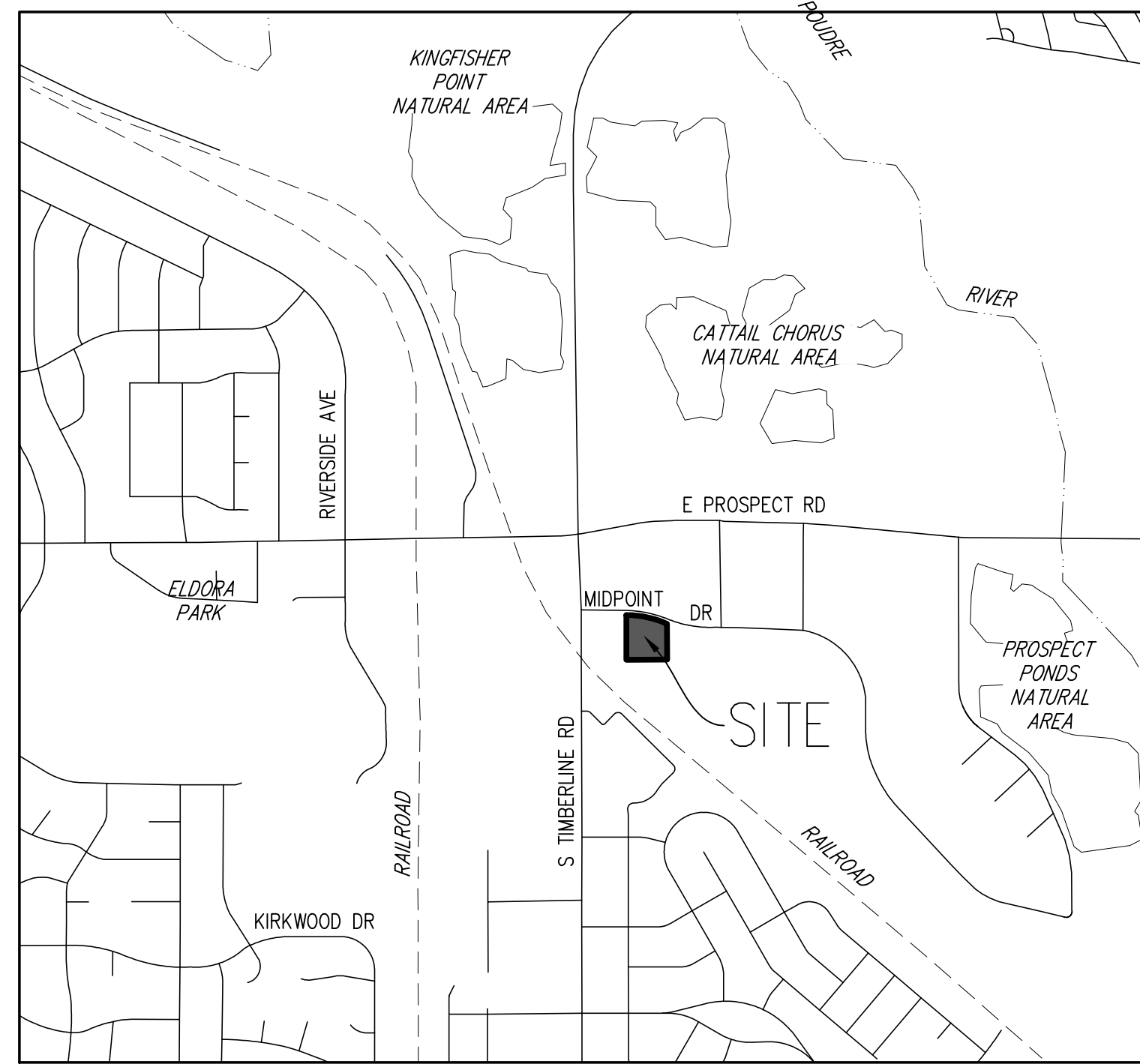
Increase in Impervious Area 60,685 SF S.F. (Approximate amount of additional building, pavement, or etc. that will cover existing bare ground to be added to the site)

Suggested items for the Sketch Plan:

Property location and boundaries, surrounding land uses, proposed use(s), existing and proposed improvements (buildings, landscaping, parking/drive areas, water treatment/detention, drainage), existing natural features (water bodies, wetlands, large trees, wildlife, canals, irrigation ditches), utility line locations (if known), photographs (helpful but not required). Things to consider when making a proposal: How does the site drain now? Will it change? If so, what will change?

CONCEPT PLAN ALLIED BUILDING PRODUCTS

LOCATED IN THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, TOWNSHIP 7 NORTH, RANGE 68 WEST
OF THE 6th PRINCIPAL MERIDIAN
CITY OF FORT COLLINS, LARIMER COUNTY, COLORADO



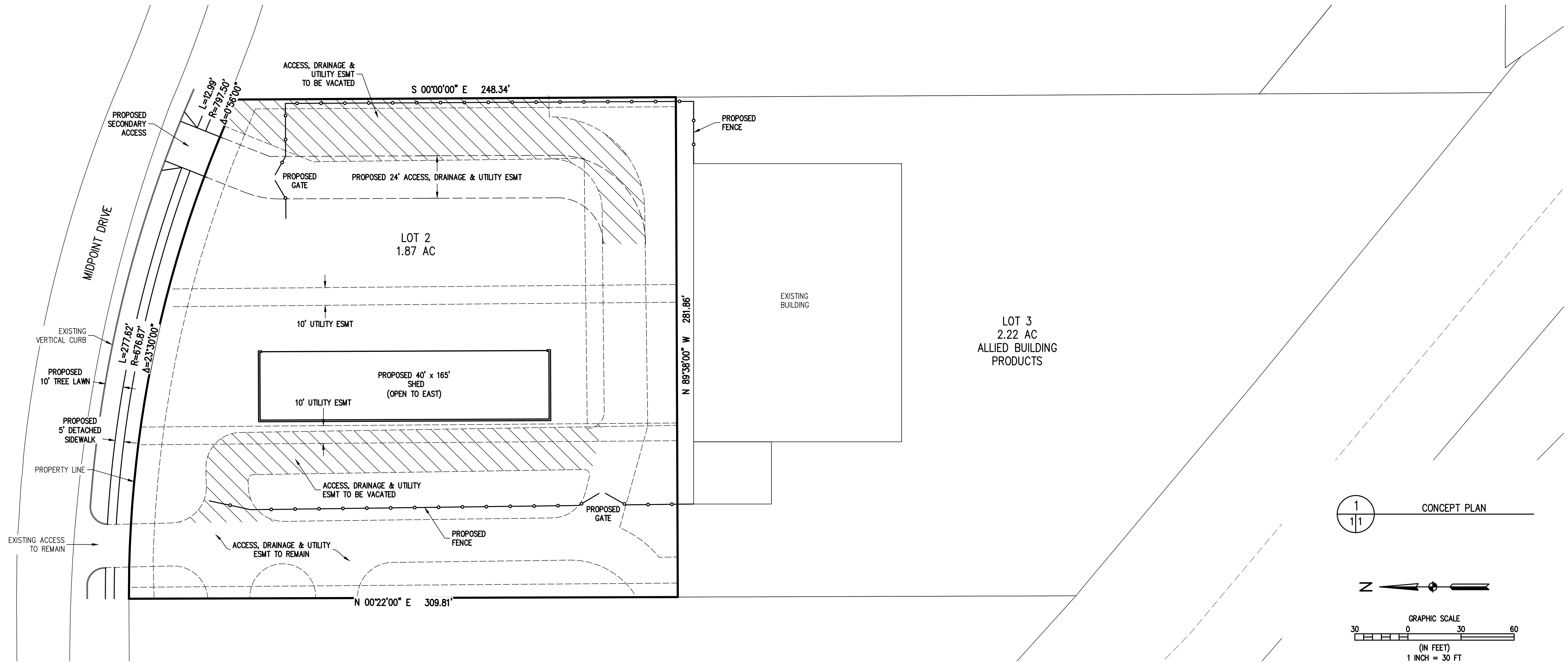
VICINITY MAP
SCALE: 1" = 1000'

SITE DATA

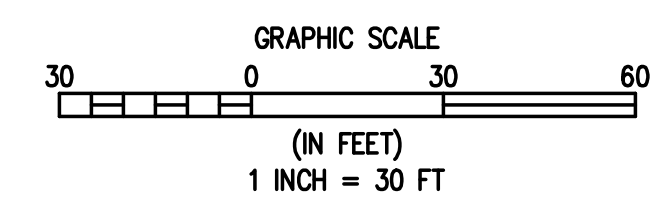
TOTAL SITE AREA LOT 2	81,457 SF	1.87 AC
TOTAL SITE AREA BUILDING	6,600 SF	8.1%
TOTAL SITE AREA PAVED DRIVE	18,878 SF	23.2%
TOTAL SITE AREA OTHER IMPERVIOUS	35,207 SF	43.2%
TOTAL SITE AREA OPEN SPACE	20,772 SF	25.5%
ZONING DISTRICT	E-EMPLOYMENT	
BUILDING HEIGHT	20'	

LEGEND

	PROPERTY LINE
	ADJACENT LOT LINES
	EXISTING EASEMENT
	EXISTING EASEMENT TO BE VACATED
	PROPOSED EASEMENT



1
1/1
CONCEPT PLAN



DESIGNED BY: DF
DRAWN BY: JFE
CHECKED BY: DF

DATE: _____
PREPARED BY: _____

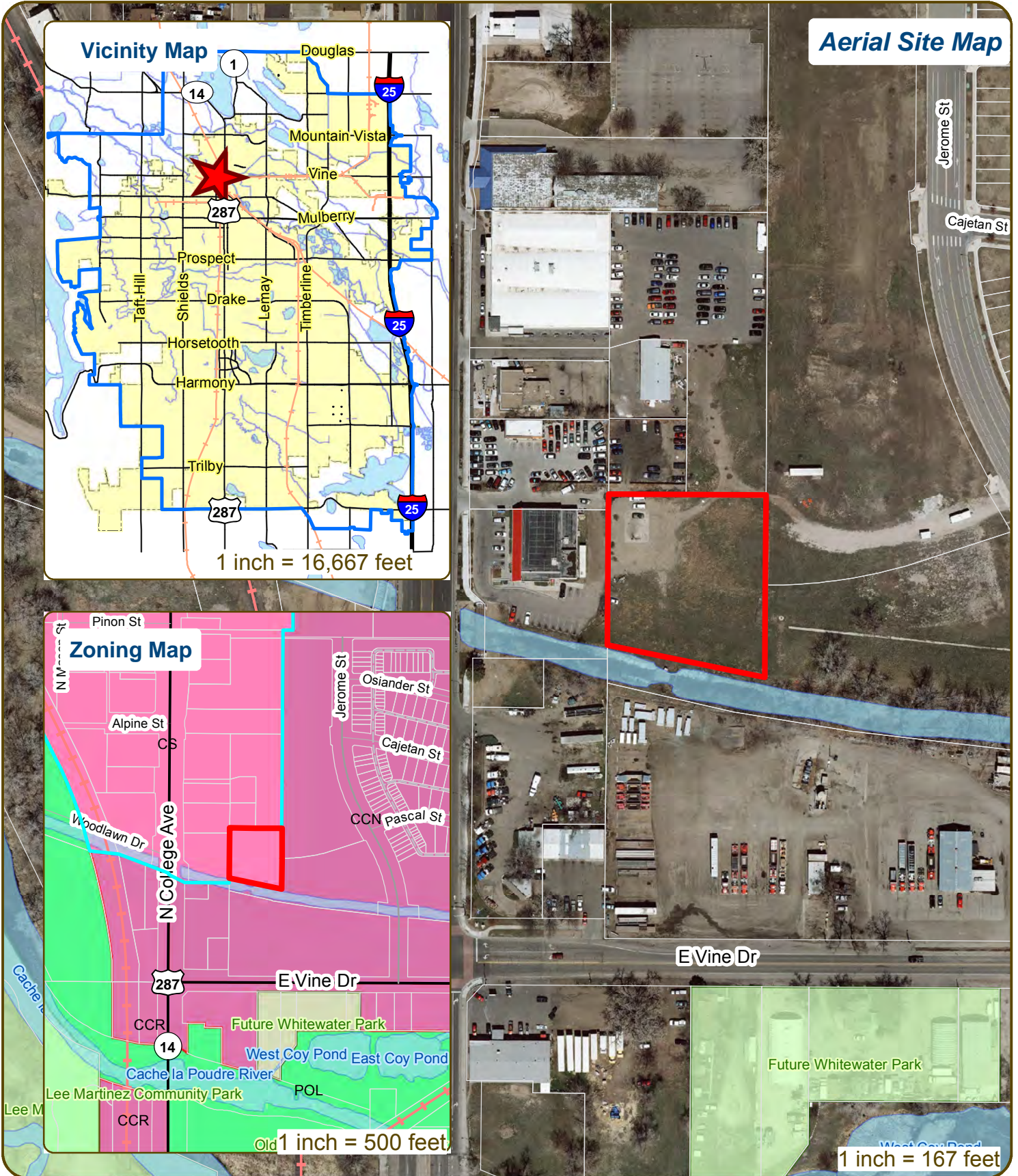
REVISION	DESCRIPTION

CITY OF FORT COLLINS
LARIMER COUNTY
DOHN CONSTRUCTION
ALLIED BUSINESS PRODUCTS
2155 MIDPOINT DRIVE
CONCEPT PLAN

PREPARED UNDER THE DIRECT SUPERVISION OF

FOR AND ON BEHALF OF
BASELINE CORPORATION
INITIAL SUBMITTAL 4/30/2018
DRAWING SIZE 24" X 36"
SURVEY FIRM SURVEY DATE
JOB NO. 373PL
DRAWING NAME 373 CONCEPT PLAN.dwg
SHEET 1 OF 1

748 N College Ave OTAC CrossFit



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CONCEPTUAL REVIEW:

APPLICATION

General Information

All proposed development projects begin with Conceptual Review. Anyone with a development idea can schedule a Conceptual Review meeting to get feedback on prospective development ideas. At this stage, the development idea does not need to be finalized or professionally presented. However, a sketch plan and this application must be submitted to City Staff prior to the Conceptual Review meeting. The more information you are able to provide, the better feedback you are likely to get from the meeting. **Please be aware that any information submitted may be considered a public record, available for review by anyone who requests it, including the media.**

Conceptual Reviews are scheduled on three Monday mornings per month on a “first come, first served” basis. One 45 meeting is allocated per applicant and only three conceptual reviews are done each Monday morning. Conceptual Review is a free service. **Complete applications and sketch plans must be submitted to City Staff no later than 5 pm, two Tuesdays prior to the meeting date.** Application materials must be e-mailed to currentplanning@fcgov.com. If you do not have access to e-mail, other accommodations can be made upon request.

At Conceptual Review, you will meet with Staff from a number of City departments, such as Community Development and Neighborhood Services (Zoning, Current Planning, and Development Review Engineering), Light and Power, Stormwater, Water/Waste Water, Advance Planning (Long Range Planning and Transportation Planning) and Poudre Fire Authority.

Comments are offered by staff to assist you in preparing the detailed components of the project application. There is no approval or denial of development proposals associated with Conceptual Review. At the meeting you will be presented with a letter from staff, summarizing comments on your proposal. **The more info provided, the more detailed your comments from staff will be.**

Contact Name(s) and Role(s) (Please identify whether Consultant, Owner, etc.)		
Business Name (if applicable)		
Mailing Address		
Phone	Email Address	
Site Address (parcel # if address in not available)		
Description of Proposal (attach additional sheets if necessary)		
Proposed Use	Existing Use	
Total Building Square Footage	Number of Stories	Lot Dimensions

Age of any Existing Structures _____

Info available on Larimer County’s Website: <http://www.co.larimer.co.us/assessor/query/search.cfm>

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Increase in Impervious Area _____ S.F.

(Approximate amount of additional building, pavement, or etc. that will cover existing bare ground to be added to the site)

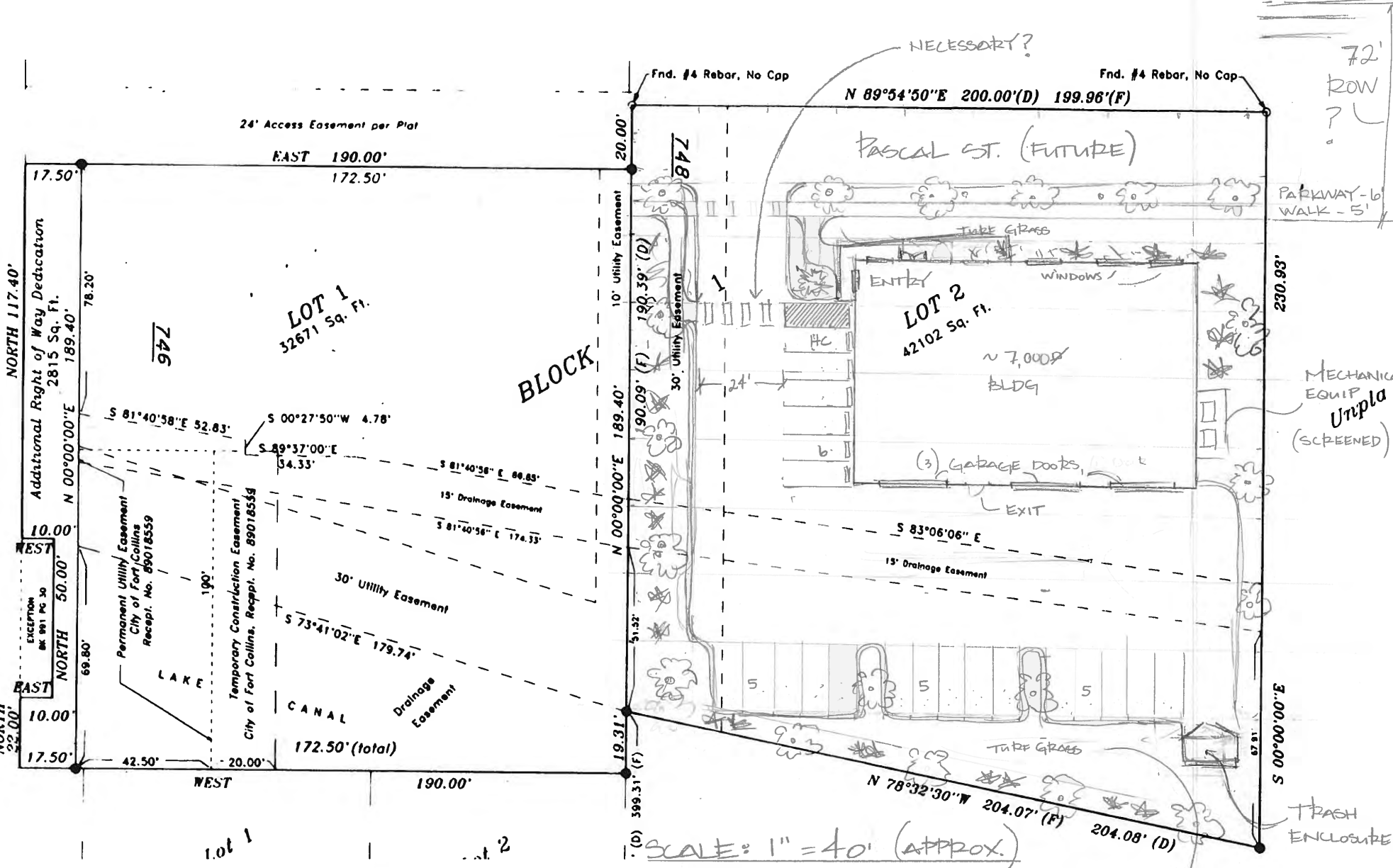
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NORTH COLLEGE

(Right of Way per Book 991 Page 30 & Book 599 Page 295)

BIKE PARKING - 4 MIN. - NEED TO LOCATE
 PARKING - 21 (1 HC, van-access)

EXISTING UTILITY EASEMENT MANDATORY TO REMAIN



MAYBE MOVE WEST SIDE PARKING 5' TO MAKE ROOM FOR LANDSCAPING NEXT TO BUILDING?

DETENTION POND AREA?

72' ROW ?

PARKWAY - 6' WALK - 5'

MECHANIC EQUIP Unpla (SCREENED)

TRASH ENCLOSURE

SCALE: 1" = 40' (APPROX.)





