



FTC SPRING MEADOWS

PHOTO SIMULATION
OCTOBER 23, 2014

SITE ADDRESS:
900 E. PROSPECT ROAD
FORT COLLINS, COLORADO
LARIMER COUNTY

COORDINATES:
LAT: 40°34'03.29"N
LONG: 105°03'50.44"W



CONTENTS:
PS1: COVER
PS2: EXISTING SOUTHWEST ELEVATION
PS3: SOUTHWEST ELEVATION SIMULATION



TOWERCOM TECHNOLOGIES, LLC

767 N. Star Road Star, ID 83669 (208) 286-0266

Albuquerque, NM • Boise, ID • El Paso, TX • Las Vegas, NV • Denver, CO



PROSPECT #2

LifePointe
Congrats Graduate!

verizonwireless

FTC SPRING MEADOWS
SITE PHOTO
EXISTING EAST ELEVATION
OCTOBER 23, 2014

TowerCom
TECHNOLOGIES

**NEW VERIZON WIRELESS ANTENNAS
BEHIND CONCEALMENT SCREENING**

**NEW VERIZON WIRELESS
PRE-FABRICATED SHELTER WITH
BRICK VENEER TO MATCH CHURCH**



verizonwireless

**FTC SPRING MEADOWS
SITE PHOTO
SOUTHWEST ELEVATION SIMULATION
OCTOBER 23, 2014**





verizonwireless

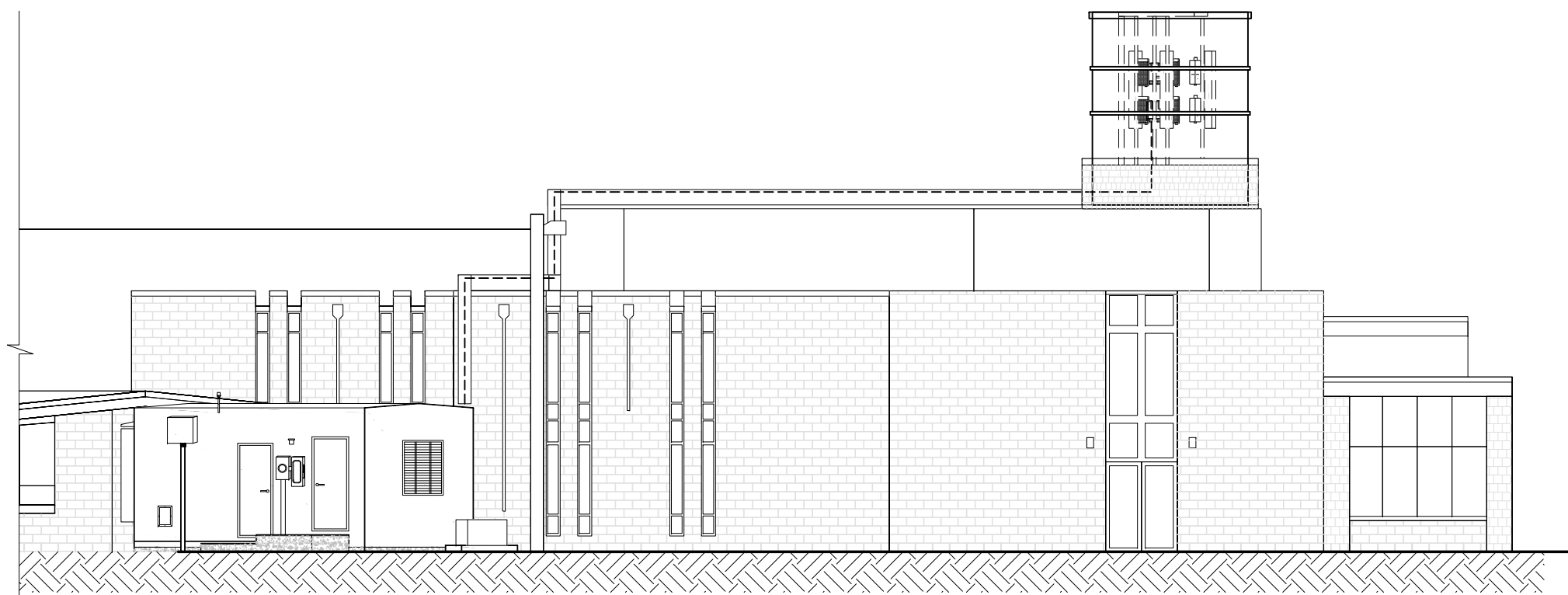
BUILDING CODE SUMMARY:	
ALL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING APPLICABLE CODES:	
USED	Code Year / Type: (ORDINANCE)
X	2012 INTERNATIONAL BUILDING CODE (IBC)
X	2012 UNIFORM PLUMBING CODE (W/O CHAP. 13) (UPC)
X	2012 INTERNATIONAL FUEL GAS CODE (IFGC)
X	2012 INTERNATIONAL RESIDENTIAL CODE (IRC)
X	2012 INTERNATIONAL MECHANICAL CODE
X	2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
X	2012 INTERNATIONAL FIRE CODE (IFC)
X	2011 NATIONAL ELECTRICAL CODE (NEC)
REFER TO BUILDING PERMIT DOCUMENTS AND ALL CONSTRUCTION DOCUMENTS FOR ADDITIONAL CODE REQUIREMENTS.	

FTC SPRING MEADOWS (ALT 2)

PROJECT NO. 20141061225

PUBLIC RECORD PARCEL NO. 97134-08-933

900 EAST PROSPECT RD
FORT COLLINS, COLORADO 80524
LARIMER COUNTY



EXISTING BUILDING NEW ROOF TOP COMMUNICATION SITE

PRELIMINARY
FOR LEASING/ZONING

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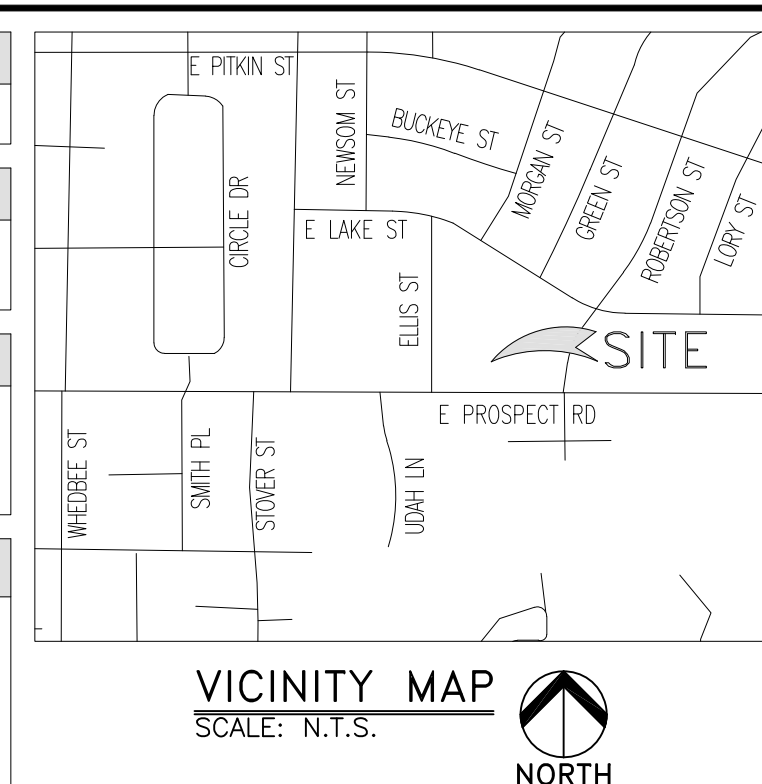
SHEET INDEX		
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Z1	SITE PLAN	A
Z2	ENLARGED SITE PLAN	A
Z3	ELEVATIONS	A
RF1	ANTENNA INFORMATION	A

PROJECT INDEX:	
APPLICANT/CLIENT:	VERIZON WIRELESS CONSTRUCTION DEPARTMENT 3131 VAUGHN WAY, SUITE 550 AURORA, COLORADO 80014
CONTACT:	CHAD WEBER PHONE: 303-489-7836 FAX: 303-873-2684
ENGINEERS/DESIGNERS:	TOWERCOM TECHNOLOGIES LLC 1745 SHEA CENTER DR. 4TH FLOOR HIGHLANDS RANCH, CO 80129
CONTACT:	STEVE HAAG PHONE: 303-683-3194 EXT. 151
SURVEYOR:	DAVID CLAUSEN LAND SURVEYING 6100 CRESTONE ST GOLDEN, CO 80403
CONTACT:	DAVID CLAUSEN PHONE: 720-299-4565
ZONING/SITE AQ:	CENTERLINE SOLUTIONS 16360 TABLE MOUNTAIN PARKWAY GOLDEN, CO 80403
CONTACT:	BECKY SISKOWSKI PHONE: 858-243-2900

GENERAL PROJECT NOTES:	
1.	PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE SCOPE OF WORK AND ALL CONDITIONS AFFECTING THE PROPOSED PROJECT.
2.	CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS OF THE JOB SITE AND CONFIRM THAT WORK AS INDICATED ON THESE CONSTRUCTION DOCUMENTS CAN BE ACCOMPLISHED AS SHOWN PRIOR TO COMMENCEMENT OF ANY WORK.
3.	ALL FIELD MODIFICATIONS BEFORE, DURING, OR AFTER CONSTRUCTION SHALL BE APPROVED IN WRITING BY A VERIZON WIRELESS REPRESENTATIVE.
4.	INSTALL ALL EQUIPMENT AND MATERIALS PER THE MANUFACTURER'S RECOMMENDATIONS, UNLESS INDICATED OTHERWISE.
5.	NOTIFY VERIZON WIRELESS, IN WRITING, OF ANY MAJOR DISCREPANCIES REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND DESIGN INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM A VERIZON WIRELESS REPRESENTATIVE AND ADJUSTING THE BID ACCORDINGLY.
6.	CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK UNDER THE CONTRACT.
7.	CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS AND FINISHES THAT ARE TO REMAIN. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY OCCUR DURING THE CONSTRUCTION TO THE SATISFACTION OF A VERIZON WIRELESS REPRESENTATIVE.
8.	THE CONTRACTOR IS RESPONSIBLE FOR RED-LINING THE CONSTRUCTION PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. FOLLOWING THE FINAL INSPECTION BY VERIZON WIRELESS, THE CONTRACTOR SHALL PROVIDE VERIZON WIRELESS WITH ONE COPY OF ALL RED-LINED DRAWINGS.
9.	VERIFY ALL FINAL EQUIPMENT WITH A VERIZON WIRELESS REPRESENTATIVE. ALL EQUIPMENT LAYOUT, SPECS, PERFORMANCE INSTALLATION AND THEIR FINAL LOCATION ARE TO BE APPROVED BY VERIZON WIRELESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS/HER WORK WITH THE WORK AND CLEARANCES REQUIRED BY OTHERS RELATED TO SAID INSTALLATIONS.

PROJECT INFORMATION:			
OWNER:	LIFE POINTE CHURCH OF FORT COLLINS 900 EAST PROSPECT ROAD FORT COLLINS, CO 80524		
JURISDICTION:	CONTACT: STEVE PAXTON, EXEC. PASTOR PHONE: 970-412-6055 CITY OF FORT COLLINS		
PUBLIC RECORD PARCEL NO:	97134-08-933		
OCCUPANCY CLASSIFICATION:	U - UTILITY & MISC.		
TYPE OF CONSTRUCTION:	TYPE II-B		
ITEM:	REQUIRED/ALLOWED:	PROVIDED:	COMPLIANCE:
FIRE SPRINKLERS:	NO	NO	YES
FIRE ALARM:	NO	YES, ALARMED BACK TO MARKET SWITCH FACILITY	YES
BUILDING HEIGHT:	N/A	10'	YES
BUILDING STORIES:	N/A	1	YES
BUILDING AREA:	UP TO 9,000 SQ. FT.	299 SQ. FT.	YES
OCCUPANT LOAD:	N/A	UNOCCUPIED	YES
NUMBER OF EXITS:	1	2	YES
FIRE RESISTANCE OF EXTERIOR WALLS:	1 HOUR	1 HOUR	YES
FIRE RESISTANCE RATING OF BUILDING ELEMENTS:	1 HOUR	1 HOUR	YES
PROTECTION OF OPENINGS:	N/A	N/A	YES
NON-SEPARATED OR SEPARATED USES:	N/A	N/A	YES
ROOF COVERING MATERIAL:	CLASS B	CLASS B	YES
PLUMBING FIXTURES:	NONE	UNOCCUPIED, NO PLUMBING	YES

FCC COMPLIANCE:
RADIATION FROM THIS FACILITY WILL NOT INTERFERE WITH OPERATION OF OTHER COMMUNICATION DEVICES.
ADA COMPLIANCE:
THIS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. LANDINGS AND EXITS SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
ABBREVIATED LEGAL DESCRIPTION:
SITUATE WITHIN A PORTION OF TRACT B, UNIVERSITY ACRES SECOND SUBDIVISION, LYING WITHIN THE SE 1/4, SECTION 31, TOWNSHIP 7 NORTH, RANGE 69 WEST, 6TH P.M. CITY OF FORT COLLINS, COUNTY OF LARIMER, STATE OF COLORADO
PROJECT DESCRIPTION:
THIS PROJECT CONSISTS OF THE FOLLOWING: INSTALLATION <ul style="list-style-type: none"> ONE (1) NEW EQUIPMENT SHELTER W/ DIESEL GENERATOR NINE (9) NEW RRH UNITS TWO (2) NEW MAIN OVP UNITS TWO (2) NEW HYBRIFLEX CABLES SIX (6) NEW PANEL ANTENNAS TWO (2) NEW 6" PVC CONDUITS FUTURE <ul style="list-style-type: none"> THREE (3) FUTURE RRH UNITS ONE (1) FUTURE MAIN OVP UNITS ONE (1) FUTURE HYBRIFLEX CABLES
DRIVING DIRECTIONS:
FROM THE VERIZON WIRELESS OFFICE: HEAD WEST ON S VAUGHN WAY. TURN LEFT ONTO THE COLORADO 83 N RAMP TO INTERSTATE 225. MERGE ONTO S PARKER RD. TAKE THE INTERSTATE 225 N RAMP, MERGE ONTO I-225 N FOR 7.5 MI. TAKE EXIT 12A ON THE LEFT TO MERGE ONTO I-70 W TOWARD DENVER FOR 3.2 MI. KEEP RIGHT TO CONTINUE ON I-270 W. FOR 6.5 MI. TAKE EXIT 0 TO MERGE ONTO I-25 N TOWARD FT COLLINS FOR 51.2 MI. TAKE EXIT 268 FOR PROSPECT RD. FOR .2 MILE. TURN LEFT ONTO E PROSPECT RD FOR 3.3 MI. DESTINATION WILL BE ON THE RIGHT.



DESIGNED FOR:
verizonwireless
3131 SOUTH VAUGHN WAY, SUITE 550
AURORA, COLORADO 80014

DESIGNED BY:
TowerCom TECHNOLOGIES
ALBUQUERQUE, / BOISE, / EL PASO, / LAS VEGAS, / DENVER, / NEW MEXICO, / IDAHO, / TEXAS, / NEVADA, / COLORADO

PROJECT NAME:
FTC SPRING MEADOWS (ALT 2)
EXISTING BUILDING
NEW ROOF TOP COMMUNICATION SITE

PROJECT ADDRESS:
900 EAST PROSPECT RD
FORT COLLINS, COLORADO 80524
LARIMER COUNTY

SHEET TITLE:
TITLE SHEET

REV	DESCRIPTION	DATE	BY	CHK
A	PRELIMINARY - FOR LEASING & ZONING	10/03/14	BKT	-
B	REVISED PER OWNERS COMMENTS	10/09/14	CJE	-
C	REVISED PER JURISDICTION COMMENTS	02/06/15	CJE	-

SAVE DATE: 2/6/2015 3:44 PM
SHEET NUMBER: T1

GENERAL PROJECT NOTES:

- CONTRACTOR IS RESPONSIBLE FOR ERECTING TEMPORARY BARRICADES AND/OR FENCING TO PROTECT THE SAFETY OF THE PUBLIC DURING CONSTRUCTION. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY BARRIERS AND REPAIR ALL DAMAGE TO PROPERTY ON THE SITE CAUSED BY THIS CONSTRUCTION. THE COST OF REPAIR IS THE CONTRACTOR'S RESPONSIBILITY.
- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE PRIOR TO ORDERING ANY MATERIALS OR CONDUCTING ANY WORK.
- EXCESS SOIL MATERIAL AND DEBRIS CAUSED BY THIS CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
- CONTRACTOR SHALL MAKE ADJUSTMENTS TO GRADING ELEVATIONS AS NECESSARY TO ENSURE A SITE FREE OF DRAINAGE PROBLEMS.
- CONTRACTOR SHALL COORDINATE A CONSTRUCTION LAYDOWN AREA WITH THE PROPERTY OWNER. CONSTRUCTION LAYDOWN AREA SHALL BE FENCED-IN WITH TEMPORARY (45 DAY) CONSTRUCTION FENCE. THE TEMPORARY FENCE SHALL BE CONSTRUCTED OF 6' HIGH CHAIN LINK FABRIC AND IS TO BE REMOVED AT THE END OF CONSTRUCTION. LAYDOWN AREA IS TO BE RESTORED TO ITS ORIGINAL CONDITION AFTER FENCE REMOVAL.
- SURVEY INFORMATION SHOWN WAS CREATED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A LEGAL BOUNDARY SURVEY.
- THESE PLANS DO NOT ADDRESS THE SAFETY AND STABILITY OF THE STRUCTURE DURING ASSEMBLY AND ERECTION, WHICH ARE THE RESPONSIBILITY OF THE ERECTOR, BASED ON THE MEANS AND METHODS CHOSEN BY THE ERECTOR.
- NEW EQUIPMENT COMPOUND SHALL BE COVERED W/ 4" CRUSHED ROCK INSTALLED OVER CLIENT-APPROVED WEED BARRIER MATERIAL (IF APPLICABLE). (OR PER BUILT-UP COMPOUND SECTION.)

GENERAL CONTRACTOR NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE PROJECT SCOPE OF WORK DEFINED UNDER THE REQUEST FOR PROPOSAL (RFP) FOR THIS PROJECT AND ALL ASSOCIATED ATTACHMENTS AND DOCUMENTS PROVIDED.
THE RFP AND ALL ASSOCIATED DOCUMENTS SHALL DEFINE THE COMPLETE PROJECT SCOPE OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL DOCUMENTS AND IS SOLELY RESPONSIBLE FOR ALL WORK.
ALL DOCUMENTS INCLUDED WITHIN THE PROJECT REQUEST FOR PROPOSAL ARE REQUIRED FOR THE COMPLETE PROJECT SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK (EQUIPMENT, MATERIAL, INSTALLATION, TESTING, ETC.) INDICATED IN ALL DOCUMENTS. THE RFP, VERIZON WIRELESS NETWORK STANDARDS AND PROJECT ADDENDUMS AND CLARIFICATIONS ARE COMPLEMENTARY TO EACH OTHER. THE FORMAT OF THE SPECIFICATIONS AND DRAWING NUMBERING PER DISCIPLINE IS NOT INTENDED TO IMPLY SEGREGATION OF SUB CONTRACTOR WORK. CONTRACTOR SHALL ASSIGN ALL SUB CONTRACTOR WORK AND VERIZON WIRELESS WILL NOT ACCEPT ANY CHANGE ORDERS FOR INTERNAL CONTRACTOR WORK ASSIGNMENTS.
CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTING ALL RFP DOCUMENTS TO THEIR SUB CONTRACTORS. ALL RFP DOCUMENTS ARE REQUIRED TO INDICATE THE PROJECT SCOPE OF WORK. PARTIAL SUB CONTRACTOR DOCUMENT PACKAGES ARE HIGHLY DISCOURAGED.
IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, REFERENCED STANDARDS, VERIZON WIRELESS STANDARDS, OR AGREEMENT TERMS AND CONDITIONS THE ARCHITECT/ ENGINEER SHALL BE CONTACTED FOR FORMAL INTERPRETATION OF THE REQUIREMENTS. THE CONTRACTOR SHALL BE DEEMED TO HAVE PROVIDED THE DETAILED AND EXTENSIVE INTERPRETATION. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECT/ ENGINEER INTERPRETATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO VERIZON WIRELESS.

ANTENNA, MOUNTS & HARDWARE INSTALLATION NOTES:

- CONTRACTOR TO INSTALL ANTENNAS, MOUNTS AND TOWER HARDWARE PER MANUFACTURER'S RECOMMENDATIONS (OR AS REQUIRED BY THE OWNER/PROVIDER).
- ALL BOLTS SHALL BE TIGHTENED PER AISC REQUIREMENTS (SEE STEEL NOTES).
- ANY GALVANIZED SURFACES THAT ARE DAMAGED BY ABRASIONS, CUTS, DRILLING OR FIELD WELDING DURING SHIPPING OR ERECTION SHALL BE TOUCHED-UP WITH TWO COATS OF COLD GALVANIZING COMPOUND MEETING THE REQUIREMENTS OF ASTM A780.
- ANTENNA MOUNTS SHALL NOT BE USED AS A CLIMBING DEVICE. WORKERS SHALL ALWAYS TIE OFF TO AN APPROVED CLIMBING POINT.
- SEE ALSO GENERAL ANTENNA NOTES ON SHEET RF1 (IF APPLICABLE).

MAIN OVP, SECTOR BOX, RRH, TMA, & DIPLEXER INSTALLATION NOTES:

- CONTRACTOR TO INSTALL MAIN OVP, SECTOR BOXES, REMOTE RADIO HEADS, TOWER MOUNTED AMPLIFIERS, AND/OR DIPLEXERS PER MANUFACTURER'S RECOMMENDATIONS.
- ALL BOLTS SHALL BE TIGHTENED PER AISC REQUIREMENTS.
- ANY GALVANIZED SURFACES THAT ARE DAMAGED BY ABRASIONS, CUTS, DRILLING OR FIELD WELDING DURING SHIPPING OR ERECTION SHALL BE TOUCHED-UP WITH TWO COATS OF COLD GALVANIZING COMPOUND MEETING THE REQUIREMENTS OF ASTM A780.

STRUCTURAL DESIGN CRITERIA:

ALL LOADS DERIVED FROM REQUIREMENTS OF INTERNATIONAL BUILDING CODE 2012, ASCE 7-05, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" & ANSI TIA-222-G "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS"

BUILDING STRUCTURES:

- WIND LOADS: IBC 2012 §1609 & ASCE 7-05 §6.4 (SIMPLIFIED METHOD)
V_s = 90 MPH
OCCUPANCY CAT. = II; EXPOSURE CAT. = C; IMPORTANCE FACTOR = 1.0
- SEISMIC LOADS: IBC 2012 §1613 & ASCE 7-05 §12.14 (SIMPLIFIED METHOD)
OCCUPANCY CAT. = II; SITE CLASS = D
 $V = \frac{F(S_{ps}W)}{R}$
F = 1.0 (SINGLE-STORY), 2.0 (TWO STORY), 3.0 (THREE STORY)
S_{ps} = (2/3) S_{ms}
R = 1.5 (ORDINARY PLAIN CONCRETE SHEARWALLS),
6.5 (LIGHT-FRAMED WALLS W/ WOOD STRUCTURAL PANELS),
4.0 (ORDINARY REINFORCED CONCRETE SHEARWALLS)

COMMUNICATIONS STRUCTURES:

- WIND LOADS: IBC 2012 §1609, ASCE 7-05 §6.5.15 & ANSI TIA-222-G
V = 90 MPH (3-SEC. GUST)
V = 30 MPH (1/2" RADIAL ICE)
STRUCTURE CLASS. = II; EXPOSURE CAT. = C; IMPORTANCE FACTOR = 1.0
- SEISMIC LOADS: IBC 2012 §1613, ASCE 7-05 §15.6.6 & ANSI TIA-222-G
*MAY BE IGNORED FOR STRUCTURE CLASS I AND/OR EARTHQUAKE SPECTRAL RESPONSE FOR SHORT PERIOD (S_s) ≤ 1.0
STRUCT. CLASS. = II; OCC. CAT. = II; SITE CLASS = D; IMPORTANCE FACTOR = 1.0
 $V = \frac{S_{ds}(W)}{R}$ (EQUIVALENT LATERAL FORCE PROCEDURE (METHOD 1))
 $V = \frac{S_{Max}(W_2)}{R}$ (EQUIVALENT MODAL ANALYSIS PROCEDURE (METHOD 2))

FOUNDATION NOTES:

- THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT (IF AVAILABLE) AND SHALL CONSULT THE GEOTECHNICAL ENGINEER AS NECESSARY PRIOR TO CONSTRUCTION.
- THE GEOTECHNICAL ENGINEER (OR INSPECTOR) SHALL INSPECT THE EXCAVATION PRIOR TO THE PLACEMENT OF CONCRETE AND SHALL PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORDS PURPOSES.
- THE CONTRACTOR SHALL DETERMINE THE MEANS AND METHODS NECESSARY TO SUPPORT THE EXCAVATION DURING CONSTRUCTION.
- REBAR AT BOTTOM OF FOUNDATIONS SHALL BE BONDED TO SITE GROUNDING SYSTEM (WHEN APPLICABLE). SEE ADDITIONAL DETAILS ON GROUNDING SITE PLAN.
- ALL FOOTINGS TO BE PLACED ON FIRM, UNDISTURBED, INORGANIC MATERIAL. PROOF ROLL SUB-GRADE PRIOR TO PLACING CONCRETE WHERE THE MATERIAL HAS BEEN DISTURBED BY EQUIPMENT. UNACCEPTABLE/DISTURBED MATERIAL SHALL BE OVER-EXCAVATED AND REPLACED WITH "LEAN CONCRETE FILL".
- STRUCTURAL BACKFILL SHALL BE GRANULAR FREE-DRAINING MATERIAL FREE OF DEBRIS, ORGANICS, REFUSE AND OTHERWISE DELETERIOUS MATERIALS. MATERIAL SHALL BE PLACED IN LIFTS NO GREATER THAN 6" IN DEPTH AND COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED PER ASTM D1557 (MODIFIED PROCTOR).

STEEL NOTES:

- ALL STEEL SHALL BE GALVANIZED PER ASTM A123 & CONFORM TO THE FOLLOWING MINIMUM SPECS:
HSS SHAPES (TUBE) ASTM A500, GR. B (46 KSI)
HSS SHAPES (ROUND) ASTM A500, GR. B (42 KSI)
W-SHAPES ASTM A992, (50 KSI)
CHANNELS, ANGLES & PLATES ASTM A36
- ALL BOLTS SHALL BE GALVANIZED PER ASTM A153 AND CONFORM TO ASTM A325 U.N.O. ALL BOLTED CONNECTIONS SHALL BE EQUIPPED WITH AN APPROVED NUT-LOCKING DEVICE.
- ALL WELDING WORK SHALL CONFORM TO THE AWS D1.1 STRUCTURAL WELDING CODE. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS ONLY. WELDING ELECTRODES SHALL BE E70XX.
- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO AISC SPECS AND CODES, LATEST EDITION.
- AT HIS OWN DISCRETION, THE CONTRACTOR MAY SUBMIT DETAILED, ENGINEERED, COORDINATED AND CHECKED SHOP DRAWINGS FOR ALL STRUCTURAL STEEL TO THE ENGINEER OF RECORD TO REVIEW FOR COMPLIANCE WITH DESIGN INTENT PRIOR TO THE START OF FABRICATION AND/OR ERECTION. TOWERCOM IS ABSOLVED OF ALL LIABILITY ASSOCIATED WITH THE MISINTERPRETATION OF THE CONSTRUCTION DOCUMENTS IF CONTRACTOR CHOOSES NOT TO SUBMIT SHOP DRAWINGS.
- TORCH-CUTTING OF ANY KIND SHALL NOT BE PERMITTED.
- ALL BOLTS SHALL BE TIGHTENED TO AISC SNUG TIGHT REQUIREMENTS. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PILES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.

CONCRETE NOTES:

- ALL CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 19 OF THE IBC & ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION & HAVE THE FOLLOWING PROPERTIES:
A MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'_c) OF 4,000 PSI.
B CEMENT SHALL BE "LOW-ALKALI" TYPE IIA (MODERATE SULFATE RESISTANCE, AIR ENTRAINING) CONFORMING TO ASTM C150.
C MAXIMUM WATER/CEMENT RATIO OF 0.45 AND AIR-ENTRAINED 4% TO 7%.
D CONCRETE PROPORTIONING SHALL BE DESIGNED BY AN APPROVED LABORATORY. TOLERANCES IN ACCORDANCE WITH ACI 117. COPIES OF CONCRETE MIX SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO PLACEMENT.
E ALL AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. MAXIMUM AGGREGATE SIZE TO BE 1 1/2".
F MAXIMUM SLUMP: 3" (FOUNDATION, FOOTING, SLAB), 4" (WALL, COLUMN, BEAM)
- FORMWORK FOR CONCRETE SHALL CONFORM TO ACI 347. TOLERANCES FOR FINISHED CONCRETE SURFACES SHALL MEET CLASS-C REQUIREMENTS. IN NO CASE SHALL FINISHED CONCRETE SURFACES EXCEED THE FOLLOWING VALUES AS MEASURED FROM NEAT PLAN LINES AND FINISHED GRADES: ± 1/4" VERTICAL, ± 1" HORIZONTAL.
- CHAMFER ALL EXPOSED CORNERS AND FILLET ENTRANT ANGLES 3/4" U.N.O.
- CONCRETE FINISHING:
A FLOORS: CONCRETE FLOOR SLABS SHALL BE FINISHED IN ACCORDANCE WITH ACI 302.1 CHAPTER 8, PROVIDE CLASS 4 FINISH U.N.O. PROVIDE NON-SLIP FINISH FOR EXTERIOR SURFACES.
B OTHER SURFACES: CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ACI 301 SECTIONS 5.3, 6.3, AND 7.3. PROVIDE ROUGH FINISH FOR ALL SURFACES NOT EXPOSED TO VIEW AND SMOOTH FINISH FOR ALL OTHERS.
U.N.O.
- A MINIMUM OF ONE (1) SET OF CONCRETE CYLINDERS SHALL BE TAKEN (IF REQUIRED BY SPECIAL INSPECTIONS ON SHEET IN1). EACH SET SHALL CONSIST OF THREE (3) CYLINDERS. ONE (1) SHALL BE TESTED AT 7 DAYS, TWO (2) SHALL BE TESTED AT 28 DAYS. ALL CYLINDERS SHALL BE TAKEN, PREPARED AND TESTED BY A TESTING LAB IN ACCORDANCE WITH ASTM C172, C31 AND C39.

REINFORCING STEEL NOTES:

- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615. VERTICAL/HORIZONTAL BARS SHALL BE GRADE 60; TIES OR STIRRUPS SHALL BE A MINIMUM OF GRADE 40. ALL REINFORCING STEEL SHALL HAVE 3" (± 3/8") OF CONCRETE COVER, U.N.O.
- ALL BAR BENDS, HOOKS, SPLICES AND OTHER REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ACI 315.
- ALL BARS SHALL BE SPLICED WITH A MINIMUM LAP OF 48 BAR DIAMETERS. LAP SPLICES OF DEFORMED BARS IN TENSION ZONES SHALL BE CLASS-B SPLICES. WELDING OF BARS IS NOT PERMITTED.
- AT ALL CORNERS AND WALL INTERSECTIONS, PROVIDE BENT HORIZONTAL BARS TO MATCH THE HORIZONTAL REINFORCING STEEL.
- PROVIDE VERTICAL DOWELS IN FOOTINGS AND AT CONSTRUCTION JOINTS TO MATCH VERTICAL REINFORCING BAR SIZE AND SPACING.
- ACI-APPROVED PLASTIC-COATED BAR CHAIRS OR PRECAST CONCRETE BLOCKS SHALL BE PROVIDED FOR SUPPORT OF ALL GRADE-CAST REINFORCING STEEL & SHALL BE SUFFICIENT IN NUMBER TO PREVENT SAGGING. METAL CLIPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUB-GRADE.
- DOWELS AND ANCHOR BOLTS SHALL BE WIRED OR OTHERWISE HELD IN CORRECT POSITION PRIOR TO PLACING CONCRETE. IN NO CASE SHALL DOWELS OR ANCHOR BOLTS BE "STABBED" INTO FRESHLY-POURED CONCRETE.

INTERIOR SAFETY BOARD SPECIFICATIONS:

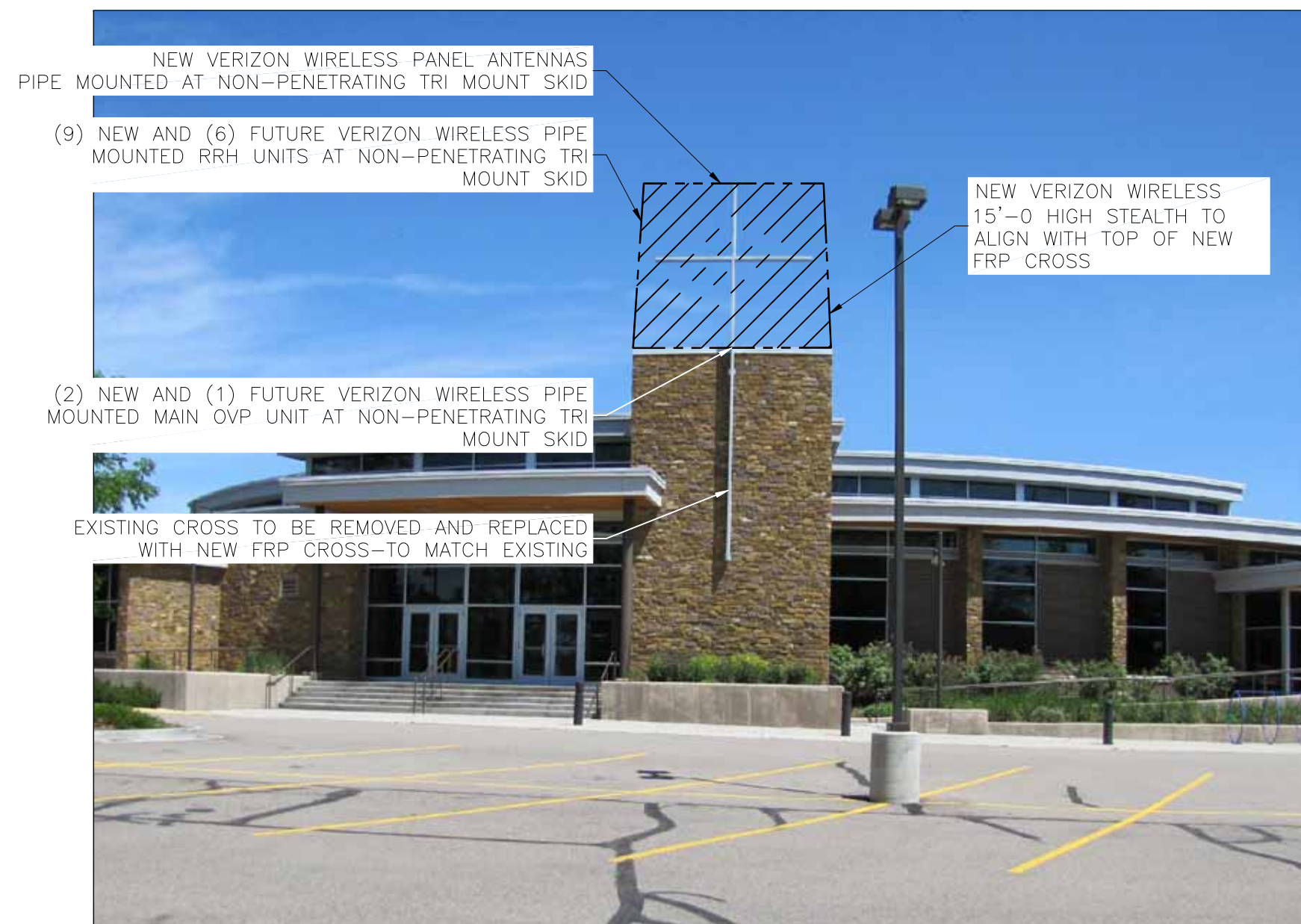
- CONTRACTOR TO INSTALL A 4'-0"x4'-0"x3/8" PLYWOOD SAFETY BOARD. SAFETY BOARD SHALL BE FASTENED TO INTERIOR WALL OF SHELTER, PAINTED "SAFETY YELLOW", AND CONTAIN THE FOLLOWING ITEMS:
EYE WASH KIT, FIRST AID KIT, SAFETY GLOVES, SAFETY APRON & EAR PROTECTION

HVAC UNIT INSTALLATION NOTES:

- ALL HVAC UNITS SHALL BE MOUNTED WITH TAMPER PROOF HARDWARE.
- SECURITY CAGES SHALL BE PLACED OVER THE HVAC UNITS. ALL SECURITY CAGES SHALL BE DESIGNED IN A WAY THAT HVAC UNITS CAN BE EASILY SERVICED AND REPAIRED AND SHALL BE MOUNTED WITH TAMPER PROOF HARDWARE.

LEGEND OF SYMBOLS:

	REFERENCE LETTER OR NUMBER		EQUIPMENT OR FIXTURE NUMBER
	SCALE:		KEYED NOTE
	SHEET WHERE DRAWN		T.C. 1631.33 F.L. 1631.00 SPOT ELEVATION
	SHEET WHERE TAKEN		TOP OF WALL 1639.00 CONTROL OR DATUM POINT
	SECTION LETTER		PROPERTY LINE
	SHEET WHERE DRAWN		EXISTING CONTOUR
	SHEET WHERE TAKEN		NEW CONTOUR
	DETAIL NUMBER		ROUND/DIAMETER
	SHEET WHERE DRAWN		APPROXIMATELY
	SHEET WHERE TAKEN		
	CENTERLINE		
	PENNY		



VIEW OF NEW ANTENNA LOCATION (LOOKING NORTH)



VIEW OF NEW LEASE AREA (LOOKING EAST)



VIEW OF NEW LEASE AREA (LOOKING NORTHWEST)

PRELIMINARY FOR LEASING/ZONING

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verizonwireless

3131 SOUTH VAUGHN WAY, SUITE 550
AURORA, COLORADO 80014

DESIGNED BY: **TowerCom TECHNOLOGIES**

ALBUQUERQUE, / BOISE, / EL PASO, / LAS VEGAS, / DENVER, / NEW MEXICO, / IDAHO, / TEXAS, / NEVADA, / COLORADO

PROJECT NAME: **FTC SPRING MEADOWS (ALT 2) EXISTING BUILDING NEW ROOF TOP COMMUNICATION SITE**

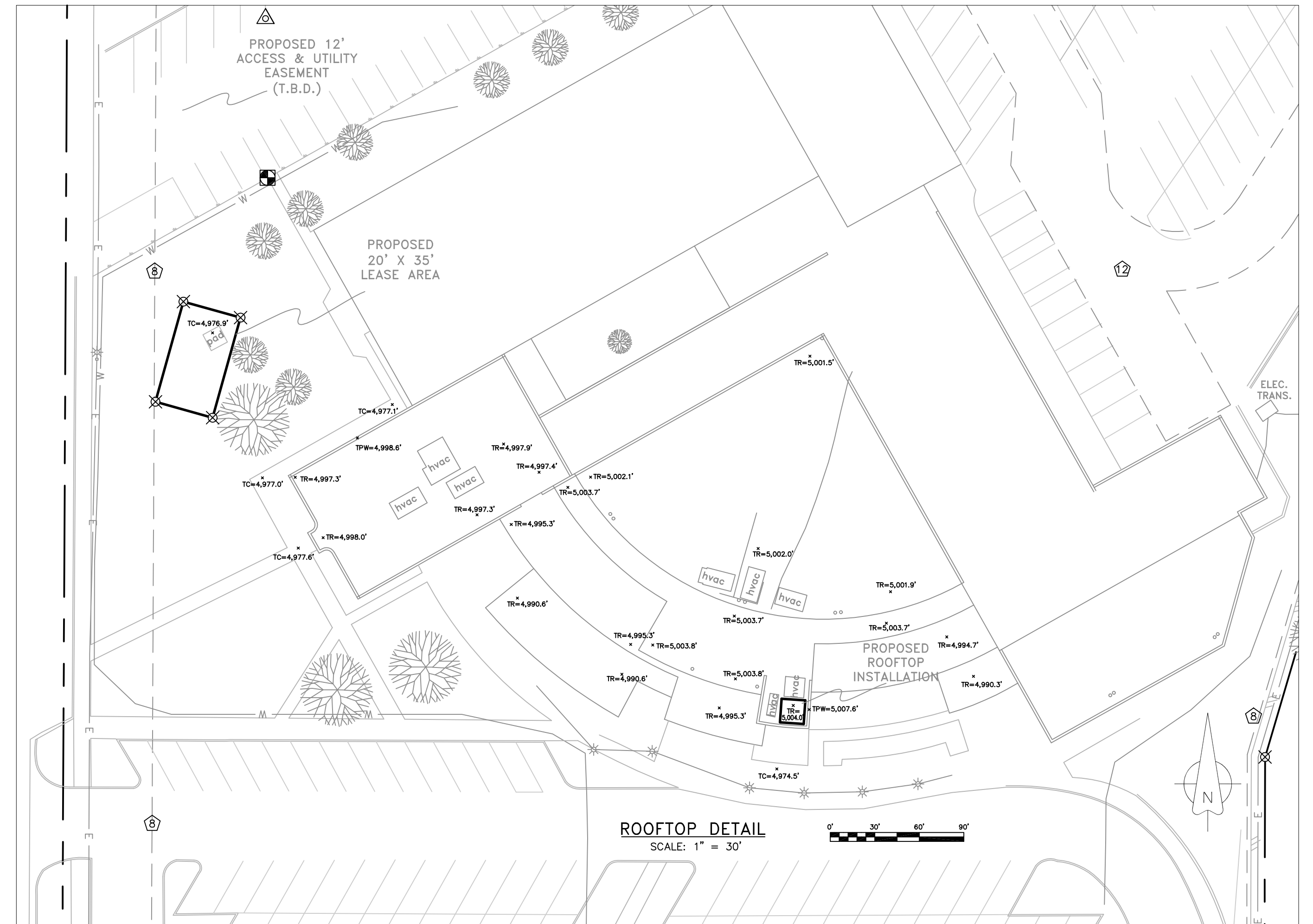
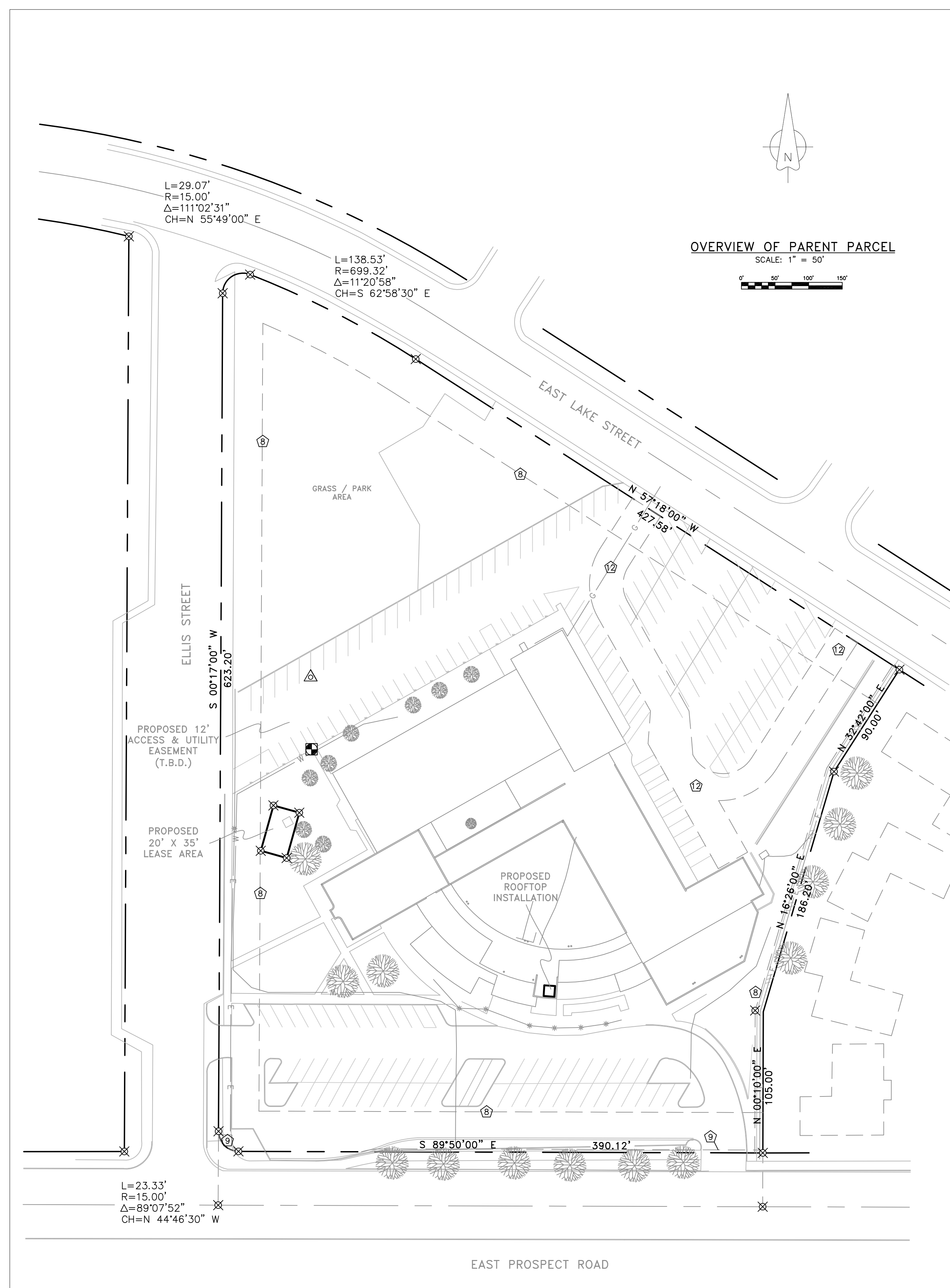
PROJECT ADDRESS: **900 EAST PROSPECT RD FORT COLLINS, COLORADO 80524 LARIMER COUNTY**

SHEET TITLE: **SPECIFICATION & PHOTO SHEET**

REV	DESCRIPTION	DATE	BY	CHK
A	PRELIMINARY - FOR LEASING & ZONING	10/03/14	BKT	-
B	REVISED PER OWNERS COMMENTS	10/09/14	CJE	-
C	REVISED PER JURISDICTION COMMENTS	02/06/15	CJE	-

SAVE DATE: 2/6/2015 8:27 AM SHEET NUMBER: SP1

LEASE AREA SURVEY
 BEING A PORTION OF TRACT B, UNIVERSITY ACRES SECOND SUBDIVISION
 LYING WITHIN THE SE 1/4, SECTION 31, TOWNSHIP 7 NORTH, RANGE 69 WEST, 6TH P.M.
 CITY OF FORT COLLINS, COUNTY OF LARIMER, STATE OF COLORADO



PARENT PARCEL DESCRIPTION
 TRACT B, UNIVERSITY ACRES SECOND SUBDIVISION, ACCORDING TO THE PLAT FILED APRIL 9, 1959 IN THE CITY OF FORT COLLINS, COUNTY OF LARIMER, STATE OF COLORADO.

LEASE AREA DESCRIPTION
 TO BE DETERMINED
 DESCRIPTION TO BE APPLIED UPON APPROVAL OF LOCATION BY GOVERNING BODY
90% COMPLETE NOT FOR CONSTRUCTION

UTILITY EASEMENT DESCRIPTION
 TO BE DETERMINED
 DESCRIPTION TO BE APPLIED UPON APPROVAL OF LOCATION BY GOVERNING BODY
90% COMPLETE NOT FOR CONSTRUCTION

TITLE REFERENCE:
 THIS SURVEY WAS DONE WITH SUFFICIENT RESEARCH AND FIELD GATHERED DATA TO VERIFY THE PARENT PARCEL OF THE SUBJECT PROPERTY, HOWEVER, THIS SURVEYOR HAS RELIED UPON THE TITLE PROVIDER REFERENCED HEREIN FOR DOCUMENTS OF RECORD. THIS SURVEYOR MAKES NO GUARANTEE, EITHER EXPRESSED OR IMPLIED AS TO THE QUALITY OF THE TITLE REPORT/ABSTRACT AND REFERENCE DOCUMENTS PROVIDED AND THE DOCUMENTS PROVIDED AFFECTING THE LEASE AND IMMEDIATE AREA HAVE BEEN PLOTTED.

- TITLE REPORT: FIRST AMERICAN TITLE INSURANCE COMPANY -- COMMITMENT NO. 5509-2260621**
- ① = NUMERIC SEQUENCE -- ITEMS WHICH CAN BE VISUALLY LOCATED AND/OR MAPPED WHICH AFFECT THE SUBJECT PROPERTY, EXCEPTING TAXES, SUPPLEMENTAL TAXES, FINANCING STATEMENTS, DEEDS OF TRUST AND OTHER MISCELLANEOUS DOCUMENTS.
 - ⑧ 8. COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS, IF ANY, WHICH PLAT OF UNIVERSITY ACRES SECOND SUBDIVISION CONTAIN A FORFEITURE OR REVERTER CLAUSE, (DELETING ANY RESTRICTIONS, INDICATING ANY PREFERENCE, LIMITATION OR DISCRIMINATION BASED ON RACE, COLOR, RELIGION, SEX, HANDICAP, FAMILIAL STATUS OR NATIONAL ORIGIN) AS SHOWN ON THE PLAT OF SAID SUBDIVISION RECORDED APRIL 09, 1959 IN BOOK 7 AT PAGE 47.
 - ⑨ 9. AN EASEMENT FOR SIDEWALK IMPROVEMENTS AND FOR PEDESTRIAN USE THEREOF BY THE GENERAL PUBLIC AND INCIDENTAL PURPOSES GRANTED TO THE CITY OF FORT COLLINS, COLORADO, A MUNICIPAL CORPORATION BY THE INSTRUMENT RECORDED NOVEMBER 18, 2004 AT RECEPTION NO. 2004-0110833 UPON THE TERMS AND CONDITIONS SET FORTH IN THE INSTRUMENT.
 - ⑫ 12. AN EASEMENT FOR EMERGENCY ACCESS EASEMENT AND INCIDENTAL PURPOSES GRANTED TO THE CITY OF FORT COLLINS, COLORADO, A MUNICIPAL CORPORATION BY THE INSTRUMENT RECORDED FEBRUARY 18, 2009 AT RECEPTION NO. 20090009439 UPON THE TERMS AND CONDITIONS SET FORTH IN THE INSTRUMENT.

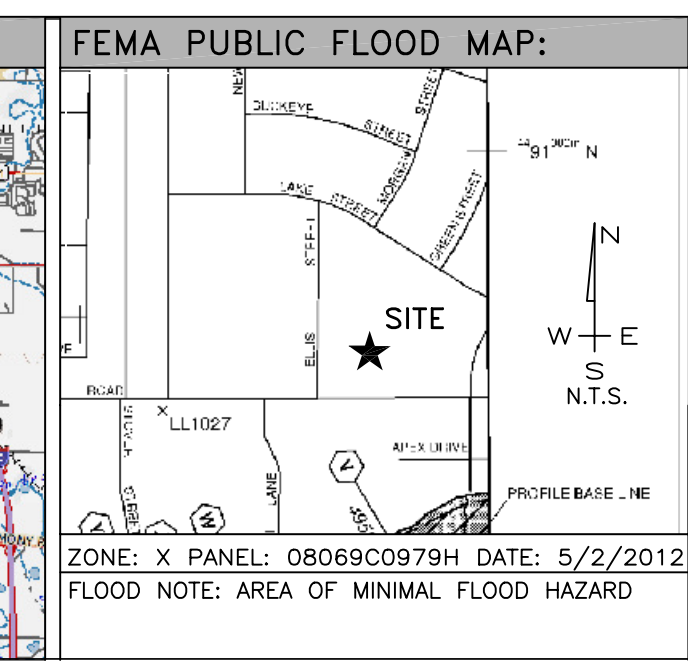
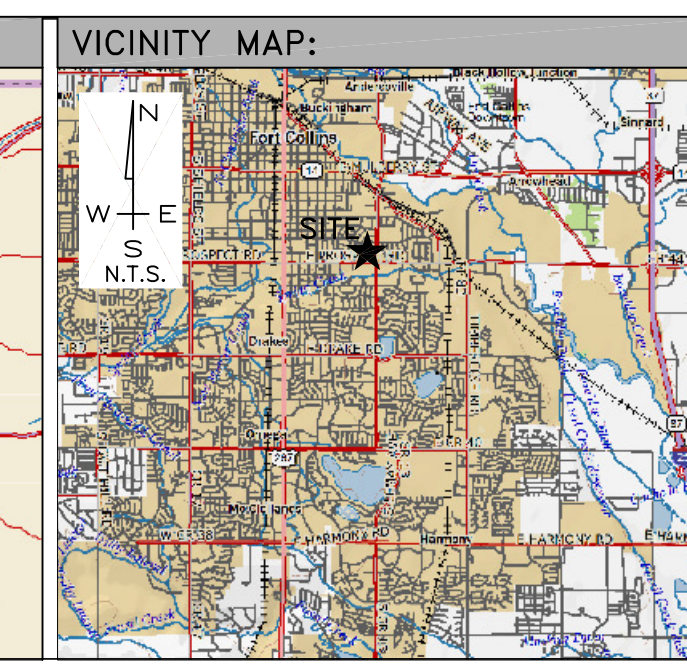
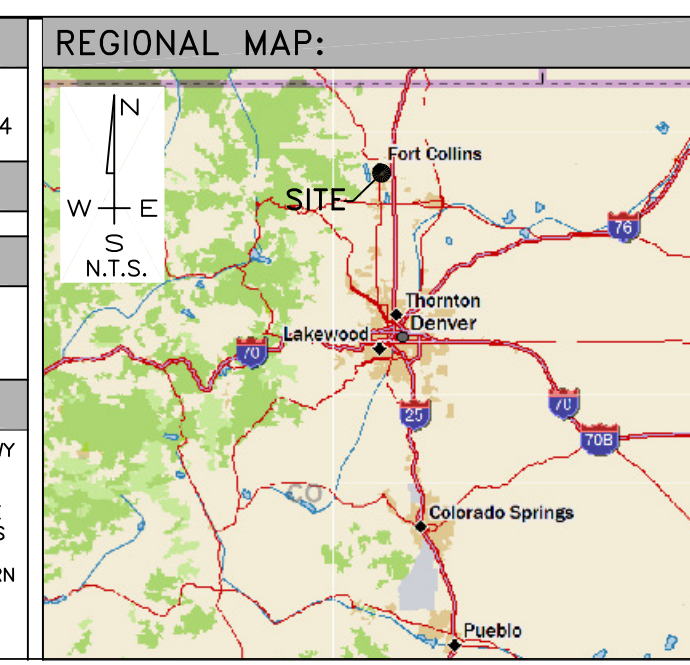
- REFERENCE DOCUMENTS:**
1. VESTING DEED -- BOOK 1094, PAGE 57 -- RECEPTION NO. 762048
 2. PLAT OF UNIVERSITY ACRES SECOND SUBDIVISION -- BOOK 7, PAGE 47
 3. SAR / ZAR BY CENTERLINE SOLUTIONS -- 16360 TABLE MOUNTAIN PARKWAY GOLDEN, CO 80403 -- (720) 353-2573
 4. TITLE COMMITMENT BY FIRST AMERICAN TITLE INSURANCE COMPANY -- FILE NO. 5509-2260621 EFFECTIVE DATE: MAY 28, 2014

PARENT PARCEL OWNER:
 THE FIRST BAPTIST CHURCH OF FORT COLLINS
 901 EAST LAKE STREET
 FORT COLLINS, CO 80524

PUBLIC RECORD PARCEL I.D.:
 97134-08-933

COMMUNICATIONS FACILITY OWNER:

DRIVING DIRECTIONS:
 FROM 3131 S. VAUGHN WAY, TRAVEL SOUTH TO PARKER ROAD/HWY 83 NORTH. PROCEED NORTHWEST AND MERGE ONTO I-225 NORTHBOUND RAMP. TAKE I-225 NORTH FOR 8 MILES TO I-70 WESTBOUND RAMP. TRAVEL WEST ON I-70 FOR 3.3 MILES TO THE I-70 WEST EXIT RAMP. PROCEED WEST ON I-270 FOR 6.5 MILES TO THE I-25 NORTHBOUND EXIT. HEAD NORTH ON I-25 AND TRAVEL FOR 51.2 MILES TO THE PROSPECT ROAD EXIT RAMP. TURN LEFT ON PROSPECT ROAD AND PROCEED WEST FOR 3.3 MILES TO 900 E PROSPECT ROAD AND, TO THE SITE NEAR THE SOUTHWEST CORNER OF THE CHURCH PROPERTY.



BASIS OF BEARING AND DATUM NOTE:

- 1.) All distances are surface and all bearings are True North for a local surface Transverse Mercator projection.
- 2.) Origin of Projection is centered on a monument (set/found) in the project area.
- 3.) Project is tied to National CORS via the OPUS utility. Geodetic Position of Control Monument is:

LATITUDE: 40° 34' 05.319"
 LONGITUDE: 105° 03' 52.101"
 ELLIPSOID HEIGHT: 4,924.6'
 HORIZONTAL DATUM NAD83 (CORS96)
 VERTICAL DATUM NAVD88 [GEOID03]
 GRID POSITION
 FALSE NORTHING: 50000.00
 FALSE EASTING: 50000.00
 ELEVATION: 4,977.2'

SURVEYOR'S NOTE & CERTIFICATION:

This "Lease Area Survey" is based on an actual field survey performed by me or under my direction. It correctly depicts existing, readily visible improvements and above ground utilities and the Boundary of the parent parcel was verified from field and record information. This "Lease Area Survey" is not a Boundary Survey of the Parent Parcel and this Survey was developed to support the communications facility plan set named herein.

DAVID M. CLAUSEN CO PLS 38104 9/4/2014

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REV.	DESCRIPTION	DATE	BY	CHK
A	90%	9/4/14	DMC	DMC

PROJECT ADDRESS:
 900 EAST PROSPECT ROAD
 FORT COLLINS, CO 80524
 LARIMER COUNTY

SURVEYED BY:
 DAVID CLAUSEN LAND SURVEYING
 6100 CRESTONE ST
 GOLDEN, CO 80403
 (720) 299-4565

DATE OF SURV.:
 AUGUST 18, 2014

DESIGNED FOR:

 3131 SOUTH VAUGHN WAY, SUITE 550
 AURORA, CO 80018

DESIGNED BY:

 ALBUQUERQUE / STAR / EL PASO / LAS VEGAS / DENVER
 NEW MEXICO / IDAHO / TEXAS / NEVADA / COLORADO

SITE NAME:
 VZW
 FORT COLLINS
 SPRING MEADOWS

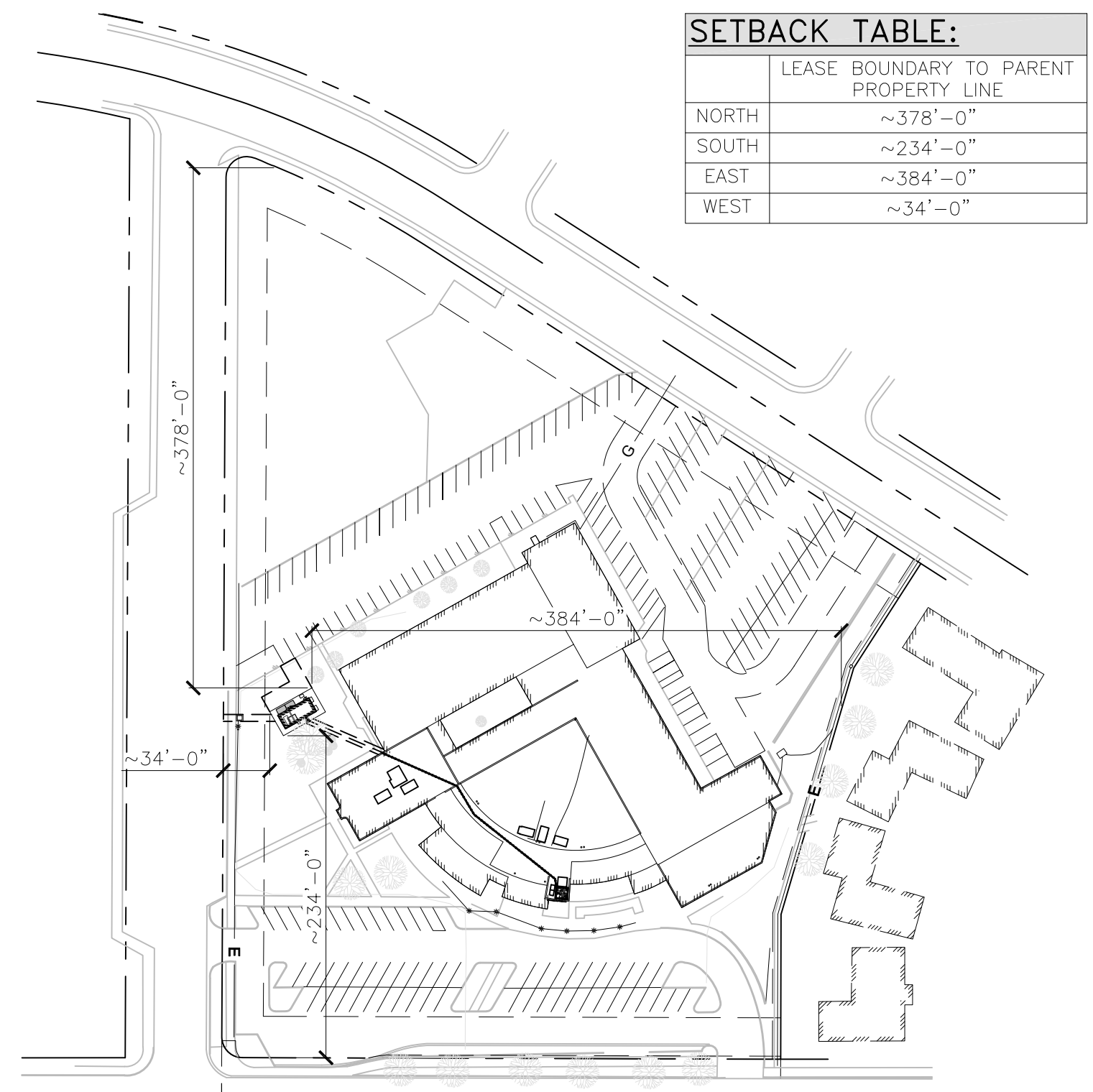
DRIVING DIRECTIONS:

SURVEY CONTROL OVERVIEW
 LEASE AREA DETAIL
 ROOFTOP DETAIL
 SURVEY NOTES & REFERENCE

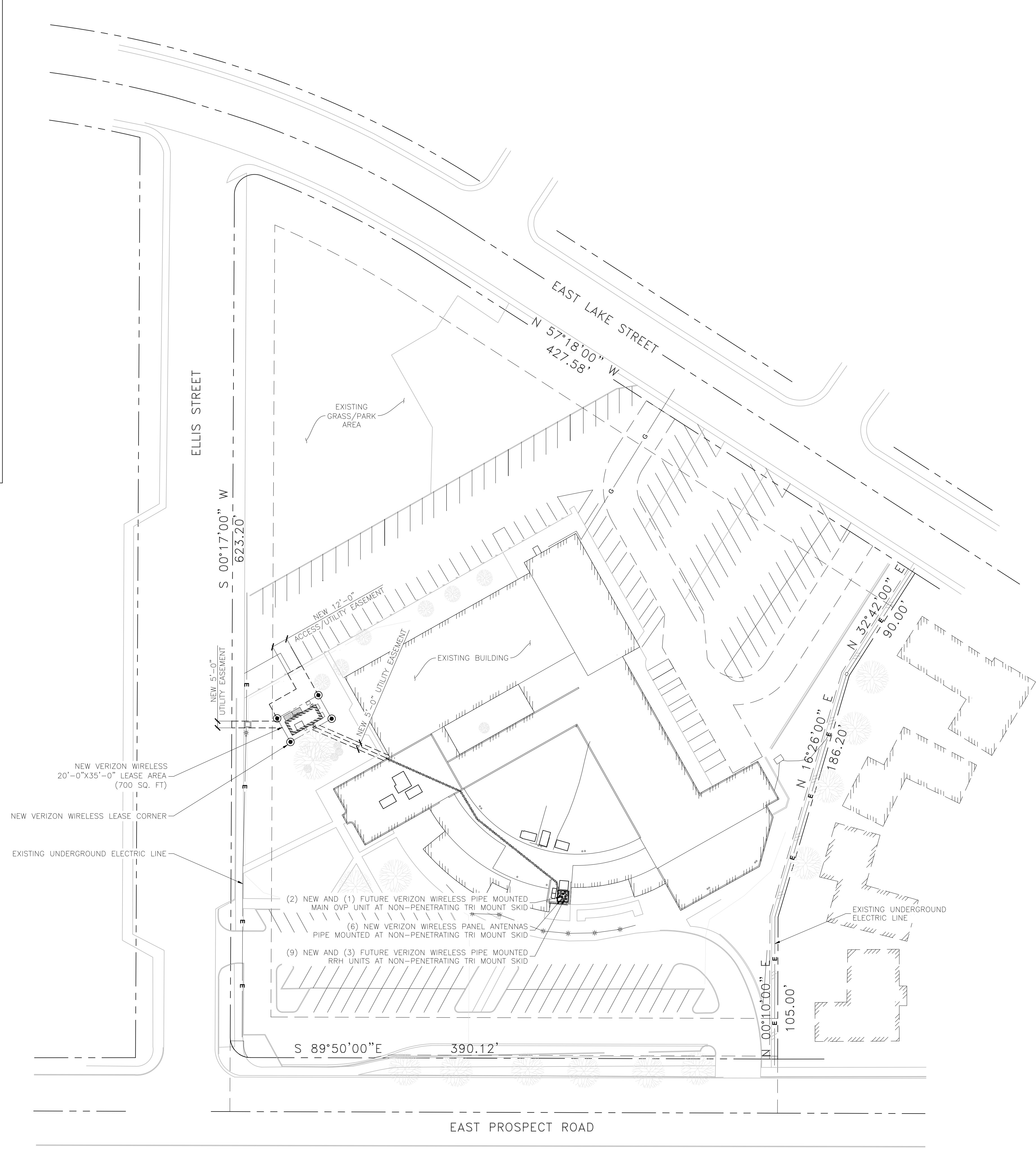
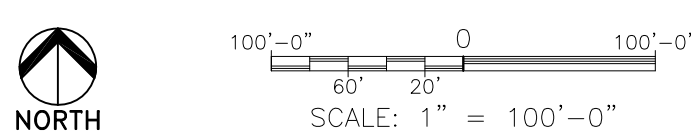
TCT SITE I.D.: VZW FTC Spring Meadows
SHEET INFO.: Sheet 1 of 1 SU1

SETBACK TABLE:

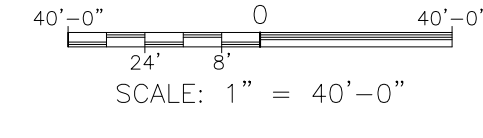
	LEASE BOUNDARY TO PARENT PROPERTY LINE
NORTH	~378'-0"
SOUTH	~234'-0"
EAST	~384'-0"
WEST	~34'-0"



SETBACK SITE PLAN



SITE PLAN



PRELIMINARY FOR LEASING/ZONING

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DESIGNED FOR:
verizonwireless
3131 SOUTH VAUGHN WAY, SUITE 550
AURORA, COLORADO 80014

DESIGNED BY:
TowerCom TECHNOLOGIES
ALBUQUERQUE, / BOISE, / EL PASO, / LAS VEGAS, / DENVER, / NEW MEXICO / IDAHO / TEXAS / NEVADA / COLORADO

PROJECT NAME:
FTC SPRING MEADOWS (ALT 2)
EXISTING BUILDING
NEW ROOF TOP COMMUNICATION SITE

PROJECT ADDRESS:
900 EAST PROSPECT RD
FORT COLLINS, COLORADO 80524
LARIMER COUNTY

SHEET TITLE:
SITE PLAN

REV	DESCRIPTION	DATE	BY	CHK
A	PRELIMINARY - FOR LEASING & ZONING	10/03/14	BKT	-
B	REVISED PER OWNERS COMMENTS	10/09/14	CJE	-
C	REVISED PER JURISDICTION COMMENTS	02/06/15	CJE	-

SAVE DATE: 2/6/2015 8:27 AM
SHEET NUMBER: Z1

SITE NOTES:

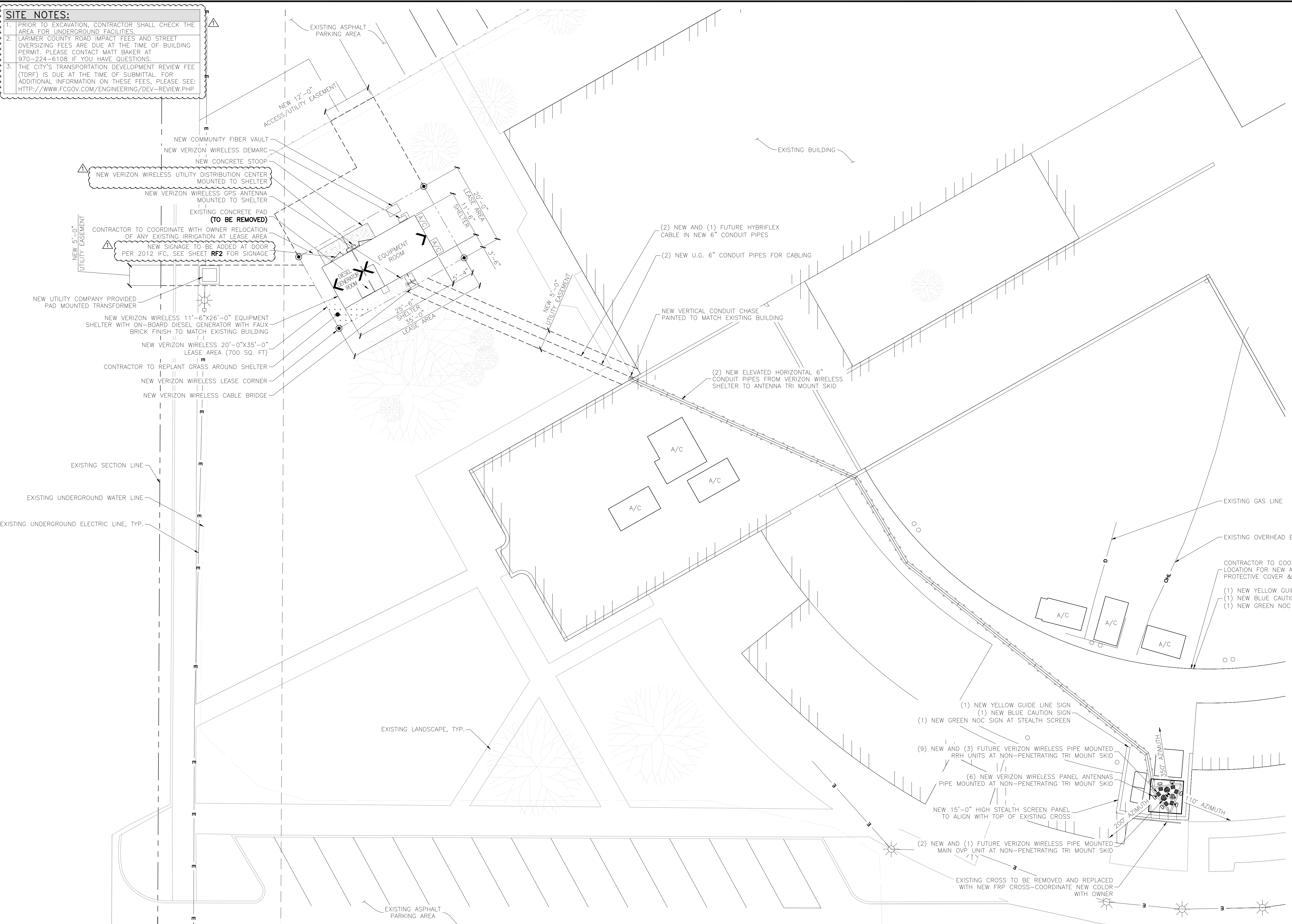
1. PRIOR TO EXCAVATION, CONTRACTOR SHALL CHECK THE AREA FOR UNDERGROUND FACILITIES.
2. LARIMER COUNTY ROAD IMPACT FEES AND STREET OVERSIZING FEES ARE DUE AT THE TIME OF BUILDING PERMIT. PLEASE CONTACT MATT BAKER AT 970-224-6108 IF YOU HAVE QUESTIONS.
3. THE CITY'S TRANSPORTATION DEVELOPMENT REVIEW FEE (TDRF) IS DUE AT THE TIME OF SUBMITTAL. FOR ADDITIONAL INFORMATION ON THESE FEES, PLEASE SEE: [HTTP://WWW.FCgov.COM/ENGINEERING/DEV-REVIEW.PHP](http://www.fcgov.com/engineering/dev-review.php)

DISTURBED AREA	
• SHELTER FOOTING:	104 ft ²
• CONCRETE STOOP:	56 ft ²
TOTAL:	160 ft²

IMPERVIOUS AREA:	
• SHELTER:	293 ft ²
• CONCRETE STOOP:	56 ft ²
TOTAL:	349 ft²

NOTES

1. VERIZON WIRELESS WILL BE INSTALLING ANTENNAS ON BUILDING ROOFTOP. THEY WILL ALSO INSTALL AN PREFABRICATED EQUIPMENT SHELTER AND FOUNDATION.
2. THE TOTAL AREA WITHIN THE LIMITS OF CONSTRUCTION IS 700 FT². THE DISTURBED AREA WILL BE 180 FT².
3. THE ESTIMATED TIMEFRAME FOR CONSTRUCTION IS 90 DAYS.
4. ALL EXISTING LANDSCAPING AND THE EXISTING CONCRETE SIDEWALK AT THE PROPOSED SITE ENTRANCE SHALL BE RESTORED TO EXISTING CONDITIONS AT THE COMPLETION OF THE PROJECT.



PRELIMINARY FOR LEASING/ZONING

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DESIGNED FOR:
verizon wireless
 3131 SOUTH VAUGHN WAY, SUITE 550
 AURORA, COLORADO 80014

DESIGNED BY:
TowerCom TECHNOLOGIES
 ALBUQUERQUE, / BOISE, / EL PASO, / LAS VEGAS, / DENVER, / NEW MEXICO, / IDAHO, / TEXAS, / NEVADA, / COLORADO

PROJECT NAME:
FTC SPRING MEADOWS (ALT 2) EXISTING BUILDING NEW ROOF TOP COMMUNICATION SITE

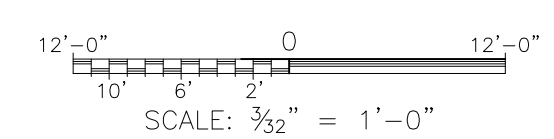
PROJECT ADDRESS:
**900 EAST PROSPECT RD
 FORT COLLINS, COLORADO 80524
 LARIMER COUNTY**

SHEET TITLE:
ENLARGED SITE PLAN

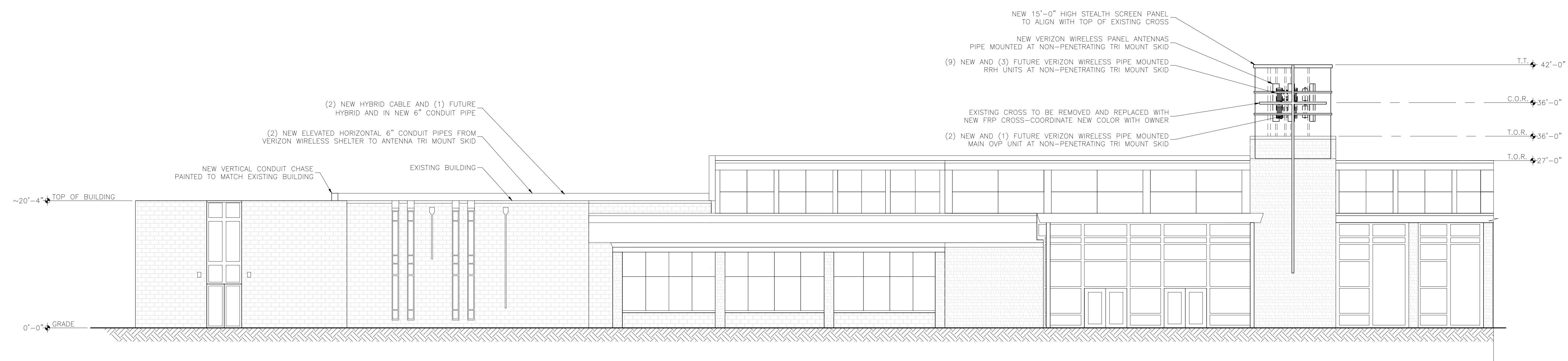
REV	DESCRIPTION	DATE	BY	CHK
A	PRELIMINARY - FOR LEASING & ZONING	10/03/14	BKT	-
B	REVISED PER OWNERS COMMENTS	10/09/14	CJE	-
C	REVISED PER JURISDICTION COMMENTS	02/06/15	CJE	-

SAVE DATE: 2/6/2015 8:27 AM
 SHEET NUMBER: **Z2**

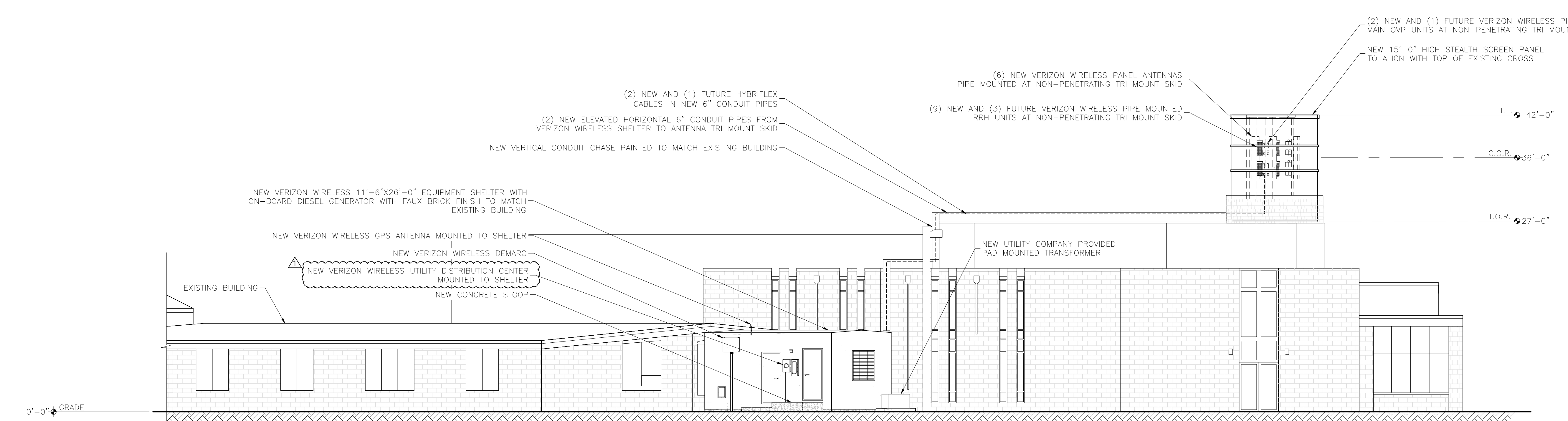
ENLARGED SITE PLAN
 SCALE: 3/32" = 1'-0"



KEY:	
T.O.R. =	TOP OF ROOF
C.O.R. =	CENTER OF RADIATION
A.L. =	ATTACHMENT LEVEL
B.T. =	BOTTOM TIP LEVEL
T.T. =	TOP TIP LEVEL
A.G.L. =	ABOVE GRADE LEVEL
B.O.B.P. =	BOTTOM OF BASE PLATE



NEW SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



NEW NORTHWEST ELEVATION
SCALE: 1/8" = 1'-0"

PRELIMINARY
FOR LEASING/ZONING

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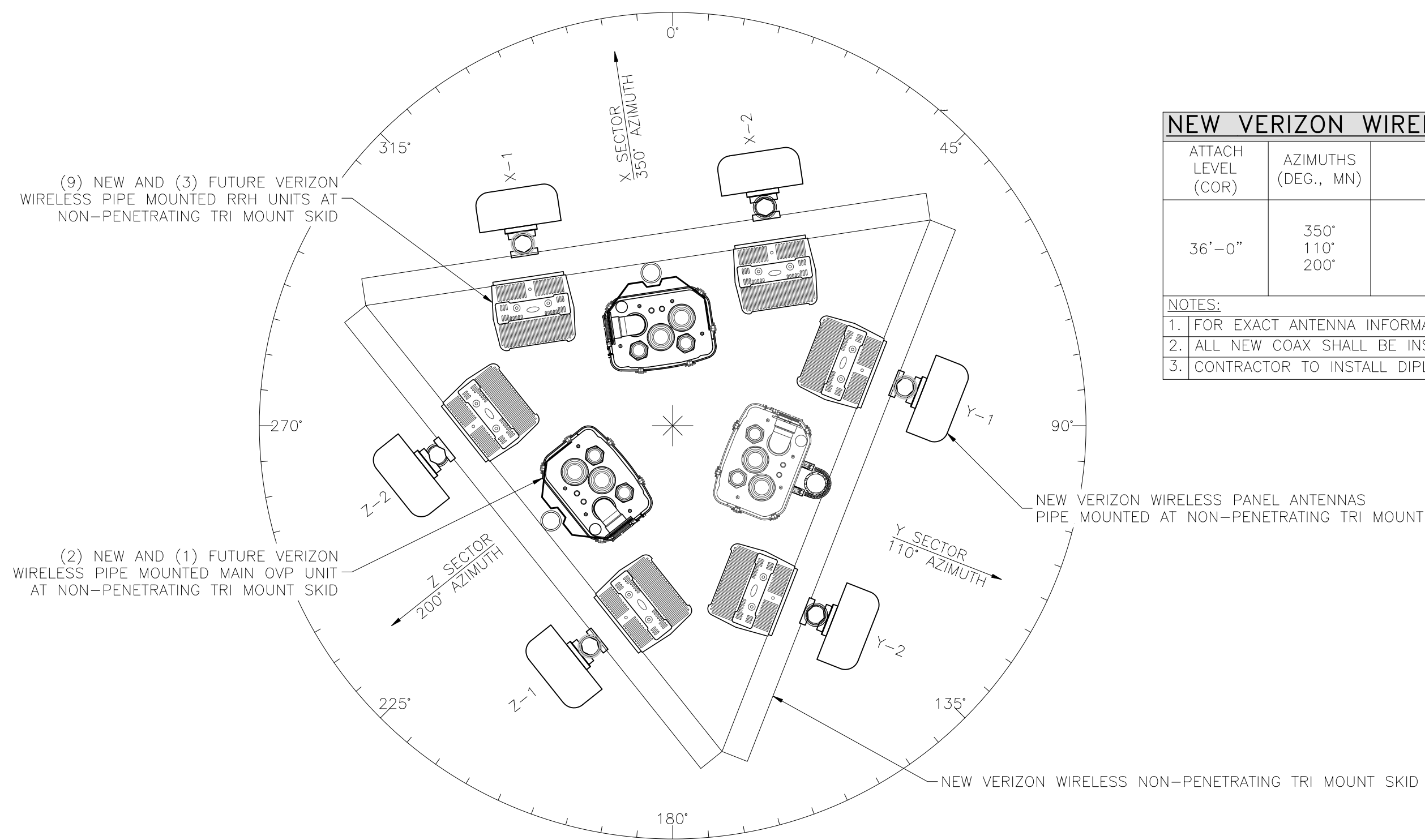
PROJECT NAME:
**FTC SPRING MEADOWS (ALT 2)
EXISTING BUILDING
NEW ROOF TOP COMMUNICATION SITE**

PROJECT ADDRESS:
**900 EAST PROSPECT RD
FORT COLLINS, COLORADO 80524
LARIMER COUNTY**

SHEET TITLE:
ELEVATIONS

REV	DESCRIPTION	DATE	BY	CHK
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SAVE DATE: 2/6/2015 3:44 PM
SHEET NUMBER: **23**



ANTENNA SECTION @ 36'-0"
SCALE: N.T.S.

NEW VERIZON WIRELESS ANTENNA SCHEDULE:

ATTACH LEVEL (COR)	AZIMUTHS (DEG., MN)	ANTENNA TYPE	ANTENNA QUANTITY	MOUNT TYPE	COAX (QUANTITY) SIZE (NOMINAL)	ESTIMATED COAX CABLE LENGTH	MECHANICAL DOWN TILT
36'-0"	350° 110° 200°	6' PANEL ANTENNA	6	SEE ANTENNA MOUNT SCHEDULE	(2) HYBRIFLEX CABLES (NEW) + (1) HYBRIFLEX CABLES (FUTURE)	-	-

NOTES:
1. FOR EXACT ANTENNA INFORMATION REFER TO THE RF DESIGN.
2. ALL NEW COAX SHALL BE INSTALLED IN NEW COAX TRAY.
3. CONTRACTOR TO INSTALL DIPLEXERS IN SHELTER AND ON TOWER AS REQUIRED BY RF DESIGN (IF APPLICABLE).

ANTENNA COLOR CODES (HELENA MARKET)

ANTENNA FUNCTION	ANTENNA SECTOR					
	X		Y		Z	
	FIRST STRIPE	SECOND STRIPE	FIRST STRIPE	SECOND STRIPE	FIRST STRIPE	SECOND STRIPE
800 VOICE	WHITE/RED	WHITE/YELLOW	BLUE/RED	BLUE/YELLOW	GREEN/RED	GREEN/YELLOW
800 EVDO	WHITE/2 RED	WHITE/2 YELLOW	BLUE/2 RED	BLUE/2 YELLOW	GREEN/2 RED	GREEN/2 YELLOW
800 LTE	WHITE/3 RED	WHITE/3 YELLOW	BLUE/3 RED	BLUE/3 YELLOW	GREEN/3 RED	GREEN/3 YELLOW
1900 EVDO	PURPLE/RED	PURPLE/YELLOW	ORANGE/RED	ORANGE/YELLOW	BROWN/RED	BROWN/YELLOW
1900 VOICE	PURPLE/2 RED	PURPLE/2 YELLOW	ORANGE/2 RED	ORANGE/2 YELLOW	BROWN/2 RED	BROWN/2 YELLOW

ANTENNA COLOR CODE:

ANTENNA FUNCTION	COLOR
CDMA-800 B-BAND	RED
CDMA-800 A-BAND	WHITE
PCS-1900	YELLOW
LTE-700	PURPLE

ANTENNA SECTOR

X	GREEN
Y	ORANGE
Z	BROWN

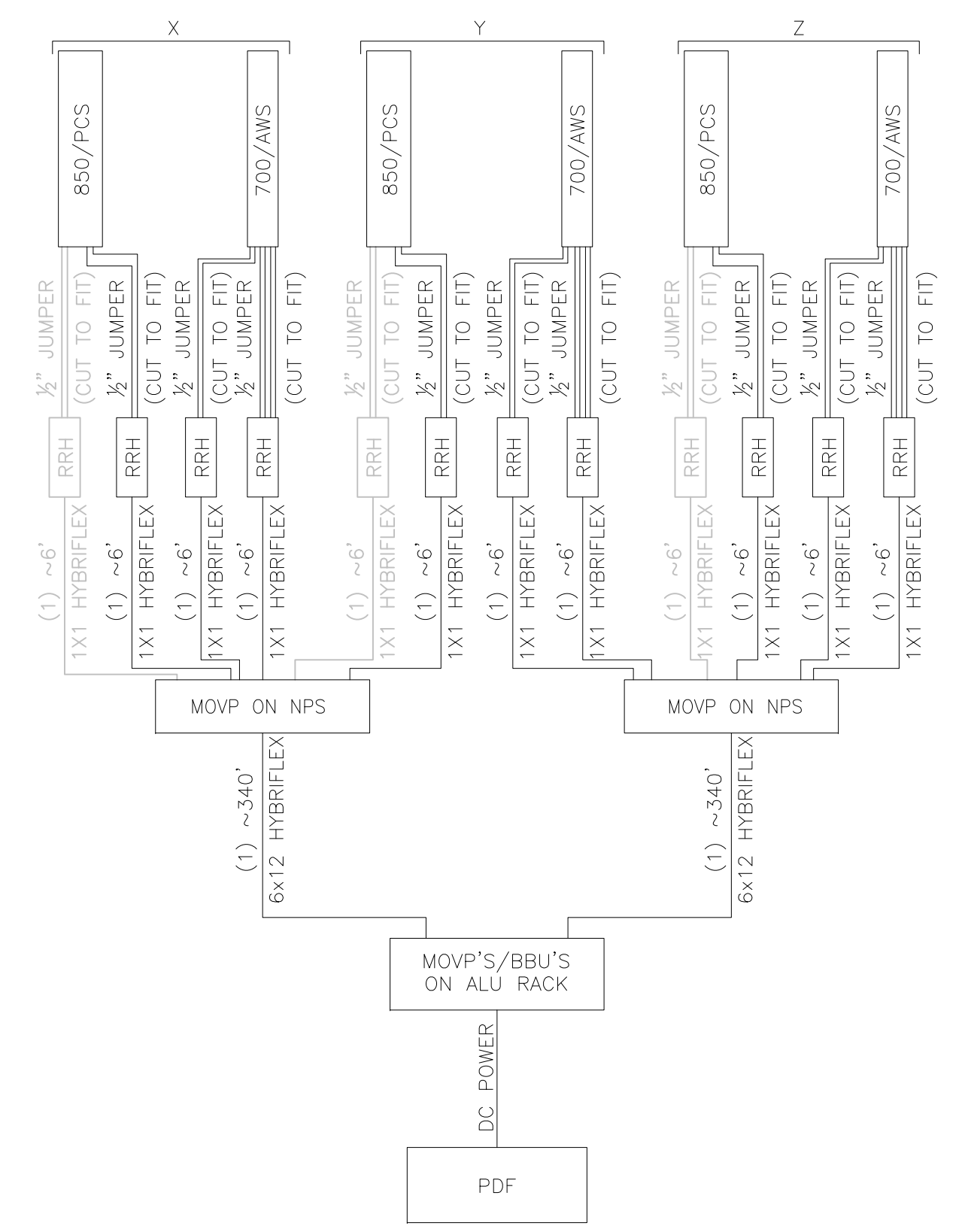
ANTENNA MOUNT SCHEDULE:

QUANTITY	DESCRIPTION	PART NUMBER(S)
6	UNIVERSAL PIPE MOUNTING KIT	C10-172

NOTE: ALL PRODUCTS ARE FROM "SABRE SITE SOLUTIONS"
PHONE: (866) 428-6937 / (712) 293-1964
WWW.SABRESITESOLUTIONS.COM

- GENERAL ANTENNA NOTES:**
- DUAL POLAR ANTENNAS REQUIRE TWO RUNS OF COAX PER ANTENNA.
 - LENGTHS GIVEN ON THIS CHART ARE ESTIMATED FROM AVAILABLE INFORMATION.
 - TYPES AND SIZES OF THE ANTENNA CABLES ARE BASED ON THE ESTIMATED LENGTH OF THE CABLES. CONTRACTOR TO VERIFY ALL ACTUAL LENGTHS IN FIELD PRIOR TO INSTALLATION AND NOTIFY THE FIELD ENGINEER FOR VERIFICATION OF SIZES OF CABLES.
 - CONTRACTOR TO PROVIDE AS BUILT FOR THE LENGTH OF CABLES UPON COMPLETION OF INSTALLATION.
 - CONTRACTOR TO PROVIDE FINAL CABLE LENGTHS AND RETURN LOSSES FOR ALL CABLES.
 - ALL AZIMUTHS REFERENCE TRUE NORTH. CONSULT REQUIRED QUADRANGLE MAP FOR NECESSARY MECHANICAL DECLINATION.

- NOTICE:**
- CONTRACTOR SHALL NOT SUBMIT BIDS OR PERFORM CONSTRUCTION WORK ON THIS PROJECT WITHOUT ACCESS TO THE CURRENT COMPLETE SET OF DRAWINGS LISTED IN THE TITLE-SHEET INDEX.



RRH HYBRID CABLE DIAGRAM AND CHART
SCALE: N.T.S.

DIAGRAM ABBREVIATIONS:

N.P.S.=	NON-PENETRATING SKID
ES=	EQUIPMENT SHELTER
RRH=	REMOTE RADIO HEAD
PDF=	POWER DISTRIBUTION FRAME
LTE=	LTE PANEL ANTENNA
AWS=	AWS PANEL ANTENNA
PCS=	PCS PANEL ANTENNA

NEW HYBRID CABLE LENGTHS:

FROM (MAIN OVP) TO (MAIN OVP)			
SECTOR	CABLE/COAX SIZE (NOMINAL)	CABLE/COAX (QUANTITY)	ESTIMATED CABLE/COAX LENGTH
-	HYB 6X12	2	~340'
-	HYB 6X12	1	~340'

FROM (MAIN OVP) TO (RRH)			
SECTOR	CABLE/COAX SIZE (NOMINAL)	CABLE/COAX (QUANTITY)	ESTIMATED CABLE/COAX LENGTH
X	HYB 1X1	3	~6'
Y	HYB 1X1	3	~6'
Z	HYB 1X1	3	~6'
	HYB 1X1	1	~6'

FROM (RRH) TO (ANTENNAS)			
SECTOR	CABLE/COAX SIZE (NOMINAL)	CABLE/COAX (QUANTITY)	ESTIMATED CABLE/COAX LENGTH
X	1/2"Ø	8	CUT TO FIT
Y	1/2"Ø	8	CUT TO FIT
Z	1/2"Ø	8	CUT TO FIT

PRELIMINARY
FOR LEASING/ZONING

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DESIGNED FOR:
verizonwireless
3131 SOUTH VAUGHN WAY, SUITE 550
AURORA, COLORADO 80014

DESIGNED BY:
TowerCom TECHNOLOGIES
ALBUQUERQUE, / BOISE, / EL PASO, / LAS VEGAS, / DENVER, / NEW MEXICO, / IDAHO, / TEXAS, / NEVADA, / COLORADO

PROJECT NAME:
**FTC SPRING MEADOWS (ALT 2)
EXISTING BUILDING
NEW ROOF TOP COMMUNICATION SITE**

PROJECT ADDRESS:
**900 EAST PROSPECT RD
FORT COLLINS, COLORADO 80524
LARIMER COUNTY**

SHEET TITLE:
ANTENNA INFORMATION

REV	DESCRIPTION	DATE	BY	CHK
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B	REVISED PER OWNERS COMMENTS	10/09/14	CJE	-
C	REVISED PER JURISDICTION COMMENTS	02/06/15	CJE	-

SAVE DATE: 2/6/2015 8:27 AM
SHEET NUMBER: RF1



**DIESEL FUEL
NO SMOKING
NO OPEN FLAMES**

PRELIMINARY
FOR LEASING/ZONING

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B	REVISED PER OWNERS COMMENTS	10/09/14	CJE	-
C	REVISED PER JURISDICTION COMMENTS	02/06/15	CJE	-

SAVE DATE: 2/6/2015 8:27 AM SHEET NUMBER: RF2