CONSTRUCTION DRAWING

X LTE 4C

X LTE 5C

X PCS 4T4R

DRIVING DIRECTIONS

DEPART FROM: AT&T MOBILITY OFFICE

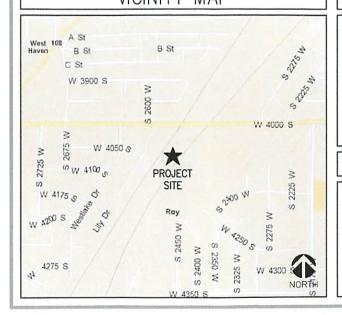
4393 RIVERBOAT ROAD, TAYLORSVILLE, UTAH 84123:

- GET ON I-15 NORTH IN MURRAY FROM WEST 4430 SOUTH FOLLOW I-15 NORTH TO WEST RIVERDALE ROAD IN RIVERDALE
- TAKE EXIT 339 FROM I-15 NORTH
- TURN LEFT ONTO W. RIVERDALE ROAD
- TURN RIGHT ONTO SOUTH 1900 WEST
- TURN LEFT ONTO WEST 4000 SOUTH
- IN ±0.3 MILES, TURN LEFT INTO ACCESS DRIVE
- CONTINUE SOUTHWEST TO TOWER SITE BEHIND AUTO REPAIR SHOP

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE AND SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

VICINITY MAP





AT&T SITE NAME **HOOPER**

AT&T SITE NUMBER

UTL03078

AT&T FA SITE NUMBER 10088500

SITE ADDRESS

2449 W. 4000 S. **ROY, UT 84067**

STRUCTURE TYPE MONOPOLE TOWER

PROJECT TEAM

GENERAL DYNAMICS

1152 WEST 2400 SOUTH, SUITE C SALT LAKE CITY, UTAH 84119 OFFICE #: (801) 263-8141

PROJECT MANAGER

INFINIGY8

FROM ZERO TO INFINIGY

1490 W. 121ST AVENUE, SUITE 101 WESTMINSTER, CO 80234 OFFICE #: (303) 219-1178 FAX #: (303) 242-8638

ENGINEER

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF THE INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT CABINETS FOR AT&T'S WIRELESS TELECOMMUNICATION NETWORK.

- HANDICAP ACCESS REQUIREMENTS ARE NOT REQUIRED.
- FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
- FACILITY HAS NO PLUMBING OR REFRIGERANTS. THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATORY REQUIREMENTS.

Know what's below. Call before you dig.

PROJECT SUMMARY

AT&T SITE NAME: HOOPER AT&T SITE #: UTL03078 AT&T FA SITE #: 10088500

SITE ADDRESS: 2449 W. 4000 S. ROY, UT 84067

COUNTY: WEBER

SITE COORDINATES:

LATITUDE: 41° 11' 22.020" N (NAD 83) LONGITUDE: -112' 02' 21.192" W (NAD 83)

APPLICANT: AT&T MOBILITY

4393 RIVERBOAT ROAD, SUITE 400 TAYLORSVILLE, UTAH 84123

PROJECT MANAGER: GENERAL DYNAMICS 1152 WEST 2400 SOUTH, SUITE C SALT LAKE CITY, UTAH 84119

CONTACT: BYRON BOSSHARDT

(801) 313-8353

ENGINEER:

INFINIGY 1490 W. 121ST AVENUE, SUITE 101 WESTMINSTER, CO 80234

CONTACT: MICHAEL KURPIL (303) 219-1178

SITE ACQUISITION CONTACT:

BUILDING CODE: INTERNATIONAL BUILDING CODE (2015 IBC)

TIA-EIA-222-G OR LATEST EDITION NFPA 780 - LIGHTNING PROTECTION CODE ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES, MOST RECENT EDITIONS

UT BUILDING CODE LOCAL BUILDING CODE 7. CITY/COUNTY ORDINANCES

ELECTRIC CODE: 2017 NATIONAL ELECTRIC CODE OR

LATEST EDITION

SHEET INDEX

NO.	DESCRIPTION	
T-1	TITLE SHEET	
C-1	GENERAL NOTES	
C-2	GENERAL NOTES	
C-3	SITE PLAN	
C-4	SHELTER EQUIPMENT LAYOUT	
C-5	TOWER ELEVATION	
C-6	ANTENNA LAYOUT & LOADING CHART	
C-7	EQUIPMENT DETAILS	
C-8	EQUIPMENT DETAILS	
C-9	PLATFORM DETAILS	
C-10	PLATFORM DETAILS	
G-1	GROUNDING DETAILS	



INFINIGY8

FROM ZERO TO INFINIGY

1490 W. 121ST Avenue, Suite 101 Westminster, CO 80234 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER: 517-001

PROJECT MANAGER



ENGINEERING LICENSE:



DRAWING NOTICE: =

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

DESCRIPTION	DATE	BY	REV
ISSUED FOR CONSTRUCTION	12/07/17	CTL	0

AT&T SITE NAME

HOOPER

UTL03078

10088500

2449 W. 4000 S. ROY, UT 84067

- SHEET DESCRIPTION: -

TITLE SHEET

SHEET NUMBER:

T-1

GENERAL CONSTRUCTION NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY: GENERAL CONTRACTOR
 - SUBCONTRACTOR CONTRACTOR (CONSTRUCTION) OWNER - AT&T
- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.

 GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND
- SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL
- CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
 UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK, DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

 IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON
- THESE DRAWINGS. THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE SPACE FOR APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT, WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL
- JURISDICTION.
 GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB ND TRUE AS INDICATED ON THE DRAWINGS.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION, SUBCONTRACTOR SHALL
- KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR
- ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF
- SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, D) TRENCHING & EXCAVATION.

- 23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK AS DIRECTED BY THE RESPONSIBLE ARCHITECT/ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE
- DURING CONSTRUCTION, EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
 NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN
- GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAYEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
- ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A AWFUL MANNER
- ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND
- SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
 THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
 OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION.
- APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
 NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION OF AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING." IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION, IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- SUBCONTRACTOR SHALL REMOVED ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION
- NO WHITE STROBE LIGHTS ARE PERMITTED. ANY REQUIRED LIGHTING MUST MEET FAA STANDARDS AND REQUIREMENTS.
- ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- NO SIGNIFICANT NOISE, SMOKE, DUST OR VIBRATIONS WILL RESULT FROM
- THIS FACILITY. (DISREGARD THIS NOTE IF THIS SITE HAS A GENERATOR) NO ADDITIONAL PARKING TO BE PROPOSED. EXISTING ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
 NO LANDSCAPING IS PROPOSED AT THIS SITE, UNLESS NOTED OTHERWISE.

ELECTRICAL NOTES:

- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF, ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR. PRIOR TO THE SUBMITTING OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
 - C NATIONAL FIRE CODES
 - UL UNDERWRITERS LABORATORIES

 - NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC.

 - OSHA OCCUPATIONAL SAFETY AND HEALTH ACT SBC STANDARD BUILDING CODE

- 4. DO NOT SCALE ELECTRICAL DRAWINGS; REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED. EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING
- SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS, AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT
- THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND
- CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS, SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION FTC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE
- MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING. UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS. CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION, CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER
- ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVEL
- GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTY BY AT&T. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY
- INSPECTION & APPROVAL BY CONSTRUCTION MANAGER.
 ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE
- THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE REEN DAMAGED THEREIN
- ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
 DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL
- UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION, BACKFILLING AND COMPACTION. REFER TO 'FOUNDATION, EXCAVATION AND BACKFILLING NOTES!
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF. SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF
- THE NEC, NEMA, AND IECE.
 CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURERS CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES, AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL AL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MADE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPI
- ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
- RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 - 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS — 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADING RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD CALV."
- SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, 800 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE
- STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
 CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8
- SERVICES: 240/120V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNERS AGENT WILL APPLY FOR

- 31. TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2'
- CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTION TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOMM.
- ALL BOLTS SHALL BE STAINLESS STEEL

GROUNDING NOTES:

- COMPRESSION CONNECTIONS (2), 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P," "A," "N," "I") WITH 1"
- ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE.
 NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF
- TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
- WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROLINDING BAR TO THE TOWER
- ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

FOUNDATION, EXCAVATION, & BACKFILL NOTES:

- ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL
- ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANTIALLY HORIZONTAL, AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POLINDING WATER DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN
- ACCORDANCE WITH ASTM D1557.
 CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL. IF INADEQUATE BEARING CAPACITY IS REACHED AT THE DESIGNED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF THE SAME TYPE SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
- ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING. BACK FILL SHALL CONSIST OF APPROVED MATERIALS SUCH AS EARTH LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE, FREE FROM CLODS OR LARGE STONES OVER 2 1/2 MAX DIMENSIONS. ALL BACK FILL
- SHALL BE PLACED IN COMPACTED LAYERS.
 ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED IN MAXIMUM 6" THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE WETTED IF REQUIRED AND COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D1557
- NEWLY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HOURS PRIOR TO BACK FILLING.
 FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE
- AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE PADS SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINAL FINISH GRADE ELEVATIONS, PROVIDE SURFACE FILL GRAVE TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
- NEWLY GRADED SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE: TYPAR-3401 AS MANUFACTURED BY "CONSTRUCTION MATERIAL 1-800-239-3841" OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECURRENCE OF VEGETATIVE GROWTH AND EXTEND TO WITHIN 1 FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROUNDING SYSTEM PERIMETER WHICHEVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECIFIED. I.E. FDOT TYPE NO.57 FOR FENCED
- COMPOUND; FDOT TYPE NO. 67 FOR ACCESS DRIVE AREA.
 IN ALL AREAS TO RECEIVE FILL, REMOVE ALL VEGETATION, TOPSOIL DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE, PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BIND WITH EXISTING/PREPARED SOIL

PLANS PREPARED FOR:



PLANS PREPARED BY: INFINIGY8

> FROM ZERO TO INFINIGY the solutions are endless

1490 W. 121ST Avenue, Suite 101 Westminster, CO 80234 Office # (303) 219-1178 Fax # (303) 242-8636

JOB NUMBER: 517-001

PROJECT MANAGER:



ENGINEERING LICENSE:



DRAWING NOTICE: =

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

DESCRIPTION	DATE	BY
ISSUED FOR CONSTRUCTION	12/07/17	CTL

AT&T SITE NAME:

HOOPER

AT&T SITE NUMBER:

ATAT FA NUMBER:

10088500

UTL03078

SITE ADDRESS

2449 W. 4000 S. ROY, UT 84067

SHEET DESCRIPTION: ==

GENERAL NOTES

SHEET NUMBER: =

- WHEN SUBGRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION AND/OR AERATE THE SOILS AND RE-COMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OR FILLS
- IN AREAS WHICH EXISTING GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTION AS SPECIFIED. ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.
- EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED WITH THE CONDITION THAT ANY UNFAVORABLE AMOUNTS OF ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ANY ADDITIONAL GRAVEL RESURFACING MATERIAL AS NEEDED TO PROVIDE A FULL DEPTH COMPACTED SURFACE THROUGHOUT
- GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUBGRADE FLEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE.
- PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING 'MATTS' OR OTHER SUITABLE PROTECTION DESIGNED TO SPREAD EQUIPMENT LOADS AS MAY BE NECESSARY REPAIR ANY DAMAGE TO EXISTING GRAVEL SURFACING OR SUB GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTORS OPERATIONS
- DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO
- THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.
 ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT.

ENVIRONMENTAL NOTES:

- ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
- CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS AND SHALL BE MAINTAINED IN
- PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION
- NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.

 CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY
- REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
- CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
- SEEDING AND MILICHING AND OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
 CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL
- MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND CRDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK
- RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER

CONCRETE MASONRY NOTES:

- CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, GRADE N-1, (F'M=1,500 PSI). MEDIUM WEIGHT (115). MORTAR SHALL BE TYPE "S" (MINIMUM 1,800 PSI AT 28 DAYS).
- GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.
- ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BELOW GRADE SHALL BE SOLID
- ALL HORIZONTAL REINFORCING STEEL SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.
 WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL
- CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.
- ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
 PROVIDE INSPECTION AND CLEAN-OUT HOLES AT BASE OF VERTICAL CELLS
- HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.
 ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.
- CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.
- REINFORCING BARS SEE NOTES UNDER "REINFORCING STEEL" FOR REQUIREMENTS.

- PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN
- MAIN REINFORCING AND MASONRY UNITS.

 LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET. LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WI PROJECT SPECIFICATIONS AND SECTION 2104.6.1 OF CURRENT BUILDING
- ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT,
- EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
 CELLS SHALL BE IN VERTICAL ALIGNMENT, DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
- REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.
- SAND SHALL BE CLEAN, SHARP AND WELL GRADED, FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKAU OR ORGANIC MATERIAL
- BRICK SHALL CONFORM TO ASTM C-62 AND SHALL BE GRADE MW OR

STRUCTURAL CONCRETE NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI-301-10 ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH
- fc'=2,500 PSI AT 28 DAYS UNLESS NOTED OTHERWISE. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH

CONCRETE EXPOSED TO EARTH OR WEATHER: #6 AND LARGER 2 IN. #5 AND SMALLER & WWF CONCRETE NOT EXPOSED TO EARTH OR WEATHER, NOR CAST AGAINST

THE GROUND: SLAB AND WALL BEAMS AND COLUMNS

A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE LLN.O. IN ACCORDANCE WITH ACL 301 SECTION 4.2.4.

HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLD, DOWEL OR ROD AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. LOCATE AND AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.

1-1/2 IN.

USE AND INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER ICBO & MANUFACTURER'S WRITTEN RECOMMENDED

STRUCTURAL STEEL NOTES:

- ALL STEEL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. STEEL SECTIONS SHALL BE IN ACCORDANCE WITH ASTM AS INDICATED BELOW: W-SHAPES: ASTM A992, 50 KSI ANGLES, BARS CHANNELS: ASTM A36, 36 KSI HSS SECTIONS: ASTM 500, 46 KSI
- PIPE SECTIONS: ASTM A53-E, 35 KSI
- ALL EXTERIOR EXPOSED STEEL AND HARDWARE SHALL BE HOT DIPPED ALL WELDING SHALL BE PERFORMED USING F70XX ELECTRODES AND
- WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION." PAINTED SURFACES SHALL BE
- BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE 3/4" Ø CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" Ø ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
- FIELD MODIFICATIONS ARE TO BE COATED WITH ZINC ENRICHED PAINT.

SITE WORK & DRAINAGE:

PART 1 — GENERAL CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE

PROPOSED WORK SHOWN IN THESE PLANS.

- DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR WAY CONSTRUCTION - CURRENT FOITION)
- ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
- OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION)

1.2 INSPECTION AND TESTING:

- FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL
- CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

- 1.3 SITE MAINTENANCE AND PROTECTION:
- PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- KEEP SITE FREE OF ALL PONDING WATER.
 PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.

 PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES,
- WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE
- EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER, AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- PROVIDE A MINIMUM 48-HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY

PART 2 - PRODUCTS

- SUITABLE BACKFILL: ASTM D2321 (CLASS L. II. III. OR IVA) FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.2 NON-POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS III, IVA OR IVB) COARSE AGGREGATE, FREE FROM FROZEN LUMPS, REFUSE, STONES, OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.3 POROUS GRANULAR EMBANKWENT AND BACKFILL: ASTM D2321 (CLASS IA, IB, OR II) COARSE AGGREGATE FREE FROM FROZEN LUMPS, REFUSE, STONES, OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.4 SELECT STRUCTURAL FILL: GRANULAR FILL MATERIAL MEETING THE REQUIREMENTS OF ASTM E850-95. FOR USE AROUND AND UNDER
- STRUCTURES WHERE STRUCTURAL FILL MATERIAL ARE REQUIRED.
 GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR
- 2.6 COARSE AGGREGATE FOR ACCESS ROAD SUB BASE COURSE SHALL
- CONFORM TO ASTM D2940.
 UNSUITABLE MATERIAL: AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.
- GEOTEXTILE FABRIC: MIRAFI 500X OR APPROVED EQUAL.
 PLASTIC MARKING TAPE: SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES, 6 INCHES WIDE WITH A MINIMUM THICKNESS OF 0.004 INCH. TAPE SHALL HAVE MINIMUM STRENGTH OF 1500 PSLIN BOTH DIRECTIONS AND MANUFACTURED WITH INTEGRAL CONDUCTORS, FOIL BACKING OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3 FEET DEEP. THE METALLIC CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR PROVIDED WITH OTHER MEANS TO PROTECT IT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION UTILITIES.

PART 2 - EXECUTION 3.1 GENERAL:

- BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES. INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH A CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ANY TIME.
- BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK
- CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE, REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA
- REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY **EXPOSED**
- REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS.
- EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING, AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.
- REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.

- PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION, NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- SEPARATE AND STOCK PILE AL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.

3.2 BACKFILL:

- AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND
- BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM
 HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
- WHENEVER THE DENSITY TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.
- THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.3 TRENCH EXCAVATION:

- UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR, PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.

 EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE
- OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
 WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE
- ENCOUNTERED, BACKFILL AT THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF
- BACKFILLING. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING, BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS
- PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.5 FINISH CRADING

- PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION, GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
 UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION
- WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- ACHIEVE FINISHED GRADE BY PLACING A MINIMUM OF 4 INCHES OF 1/2" -3/4" CRUSHED STONE ON TOP SOIL STABILIZER FABRIC.
 REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE
 - COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION

3.7 ASPHALT PAVING ROAD:

DIVISION 600 - KDOT FLEXIBLE PAVEMENT. (UPDATE PER LOCAL DOT) SECTION 403 - MODOT ASPHALT CONCRETE PAVEMENT.

PLANS PREPARED FOR



PLANS PREPARED BY: INFINIGY8

> 1490 W. 121ST Avenue, Suite 101 Westminster, CO 80234 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER: 517-001

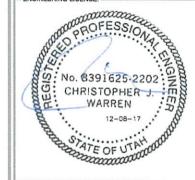
FROM ZERO TO INFINIGY

the solutions are endless

PROJECT MANAGER: :



ENGINEERING LICENSE:



DRAWING NOTICE:

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

REVISIONS:	-	-	·
DESCRIPTION	DATE	BY	RE
	_		-
ISSUED FOR CONSTRUCTION	12/07/17	CTL	0

AT&T SITE NAME: =

HOOPER

UTL03078

AT&T SITE NUMBER:

AT&T FA NUMBER:

10088500

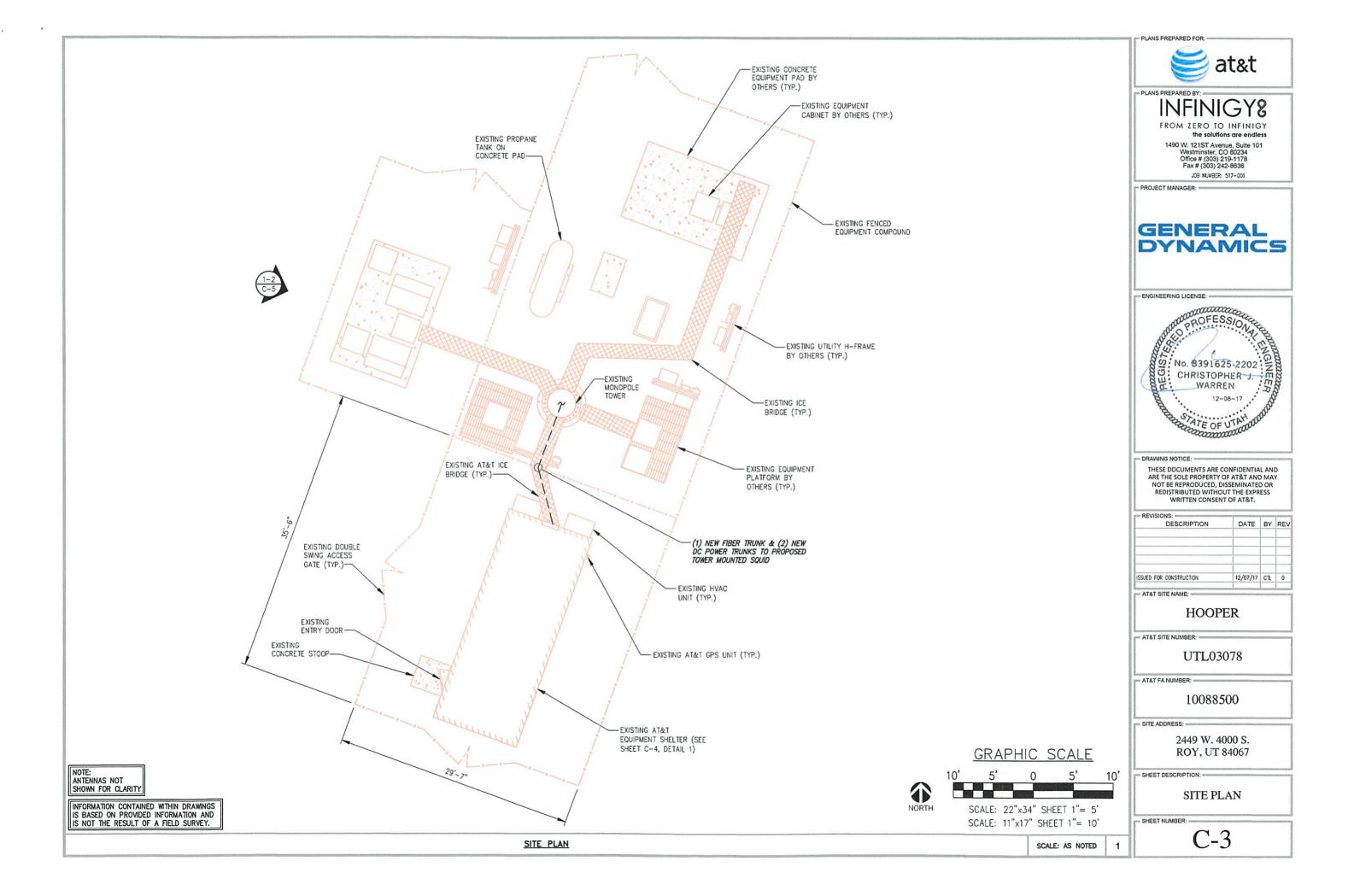
SITE ADDRESS:

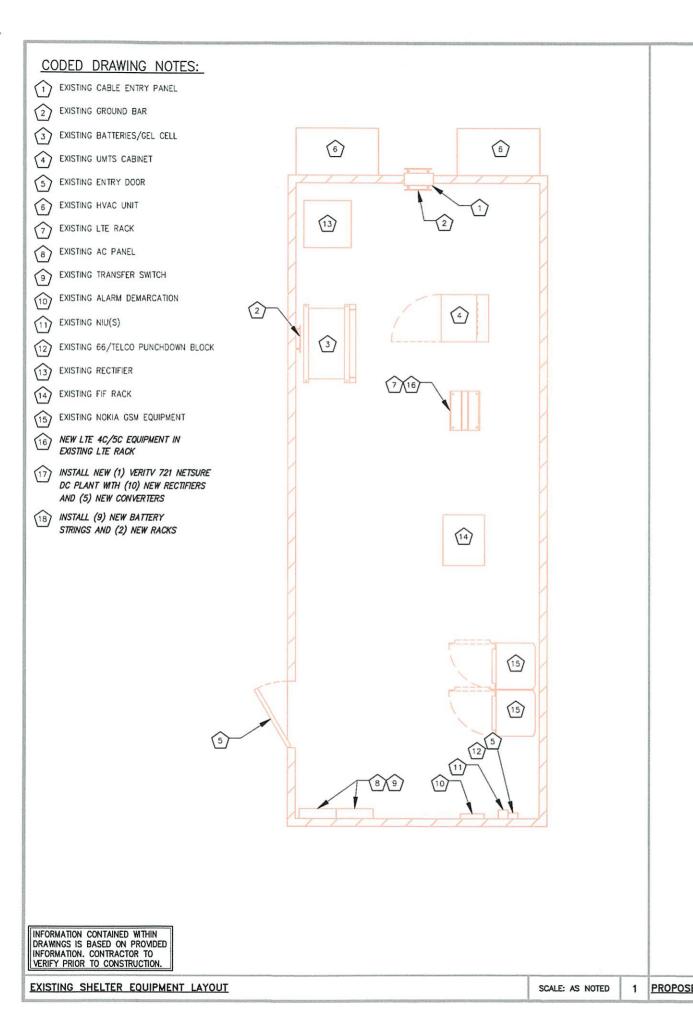
2449 W. 4000 S. ROY, UT 84067

SHEET DESCRIPTION: -

GENERAL NOTES

SHEET NUMBER:





NOTE: INFINIGY HAS NOT COMPLETED A LOAD STUDY FOR THIS SITE, ELECTRICAL SCOPE TO BE PROVIDED BY OTHERS.

NOTE:
PROPOSED POWER AUDIT TO
BE PROVIDED BY OTHERS &
IS NOT AVAILABLE AT TIME OF
ISSUANCE OF THESE PLANS

€ at&t

INFINICYS

FROM ZERO TO INFINIGY the solutions are endless

1490 W. 121ST Avenue, Suite 101 Westminster, CO 80234 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER: 517-001

PROJECT MANAGER:



NGINEERING LICENSE: =



DRAWING NOTICE:

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

DESCRIPTION	DATE	BY	RE
ISSUED FOR CONSTRUCTION	12/07/17	CTL	0

AT&T SITE NAME:

HOOPER

AT&T SITE NUMBER: =

UTL03078

AT&T FA NUMBER:

10088500

SITE ADDRES

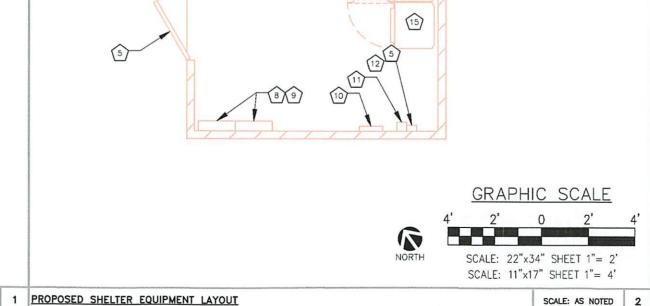
2449 W. 4000 S. ROY, UT 84067

- SHEET DESCRIPTION: -

SHELTER EQUIPMENT LAYOUT

SHEET NUMBER:

C-4



15

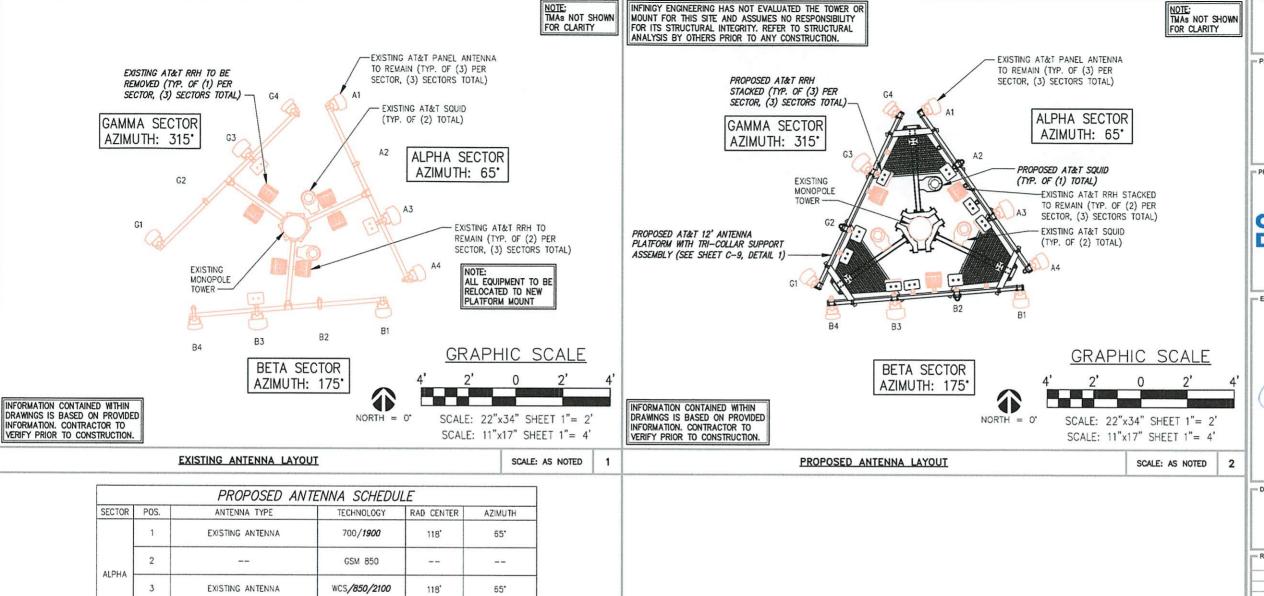
6

6

3

2

PLANS PREPARED FOR: INFINIGY ENGINEERING HAS NOT EVALUATED THE TOWER OR MOUNT FOR THIS SITE AND ASSUMES NO RESPONSIBILITY at&t FOR ITS STRUCTURAL INTEGRITY. REFER TO STRUCTURAL ANALYSIS BY OTHERS PRIOR TO ANY CONSTRUCTION. PLANS PREPARED BY FROM ZERO TO INFINIGY the solutions are endless 1490 W. 121ST Avenue, Suite 101 Westminster, CO 80234 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER: 517-001 PROPOSED AT&T SOUID TOP OF EXISTING MONOPOLE TOWER ELEV. = 130'-0" A.G.L. TOP OF EXISTING MONOPOLE TOWER (TYP. OF (1) TOTAL) -PROJECT MANAGER: == EXISTING AT&T T-ARM ELEV. = 130'-0" A.G.L. ANTENNA MOUNTS TO BE REPLACED -PROPOSED AT&T 12' ANTENNA TOP OF EXISTING AT&T PANEL ANTENNAS TOP OF EXISTING AT&T PANEL ANTENNAS PLATFORM WITH TRI-COLLAR ELEV. = 122'-0" A.G.L. ELEV. = 122'-0" A.G.L. GENERAL SUPPORT ASSEMBLY (SEE TOP OF EXISTING AT&T PANEL ANTENNAS SHEET C-9, DETAIL 1)-TOP OF EXISTING AT&T PANEL ANTENNAS DYNAMICS ELEV. = 120'-0" A.G.L. ELEV. = 120'-0" A.G.L.RAD CENTER OF EXISTING AT&T PANEL ANTENNAS EXISTING AT&T PANEL ANTENNA TO RAD CENTER OF EXISTING AT&T PANEL ANTENNAS EXISTING AT&T ELEV. = 118'-0" A.G.L. ELEV. = 118'-0" A.G.L. PANEL ANTENNA TO REMAIN (TYP. OF (3) REMAIN (TYP. OF (3) PER SECTOR, (3) PER SECTOR, (3) = ENGINEERING LICENSE: SECTORS TOTAL) -- EXISTING AT&T SQUID TO SECTORS TOTAL) - EXISTING AT&T SQUID TO REMAIN (TYP. OF (2)) REMAIN (TYP. OF (2)) ROFESSION PROPOSED AT&T RRH (TYP. OF (3) PER SECTOR, (3) SECTORS TOTAL) O: No. 8391625-2202 CHRISTOPHER J. IM WARREN ATE OF UTP = DRAWING NOTICE: = THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF AT&T AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF AT&T. REVISIONS: = - EXISTING MICROWAVE - EXISTING MICROWAVE DESCRIPTION DATE BY REV (1) NEW FIBER TRUNK DISH BY OTHERS DISH BY OTHERS & (2) NEW DC POWER TRUNKS TO PROPOSED TOWER MOUNTED SQUID EXISTING MONOPOLE TOWER MONOPOLE TOWER ISSUED FOR CONSTRUCTION 12/07/17 CTL 0 AT&T SITE NAME: = EXISTING AT&T EXISTING AT&T **HOOPER** ICE BRIDGE (TYP.) ICE BRIDGE (TYP.) EXISTING AT&T - EXISTING AT&T GPS UNIT (TYP.) GPS UNIT (TYP.) AT&T SITE NUMBER: = EXISTING FENCED EXISTING FENCED EXISTING AT&T EXISTING AT&T EQUIPMENT COMPOUND -EQUIPMENT COMPOUND -UTL03078 EQUIPMENT SHELTER EQUIPMENT SHELTER AT&T FA NUMBER: = 10088500 GROUND LEVEL GROUND LEVEL - SITE ADDRESS: 2449 W. 4000 S. GRAPHIC SCALE ROY, UT 84067 GRAPHIC SCALE 10' 20' 0 10' SHEET DESCRIPTION: = TOWER ELEVATION INFORMATION CONTAINED WITHIN INFORMATION CONTAINED WITHIN DRAWNGS IS BASED ON PROVIDED DRAWINGS IS BASED ON PROVIDED SCALE: 22"x34" SHEET 1"= 10' SCALE: 22"x34" SHEET 1"= 10' INFORMATION. CONTRACTOR TO INFORMATION. CONTRACTOR TO SCALE: 11"x17" SHEET 1"= 20' SHEET NUMBER: -SCALE: 11"x17" SHEET 1"= 20' VERIFY PRIOR TO CONSTRUCTION. VERIFY PRIOR TO CONSTRUCTION. C-5 EXISTING WEST ELEVATION SCALE: AS NOTED PROPOSED WEST ELEVATION SCALE: AS NOTED 2



		PROPOSED AN	TENNA SCHEDU	LE	
SECTOR	POS.	ANTENNA TYPE	TECHNOLOGY	RAD CENTER	AZIMUTH
	1	EXISTING ANTENNA	700/ 1900	118'	65°
	2		GSM 850		
ALPHA	3	EXISTING ANTENNA	WCS/850/2100	118'	65*
	4	EXISTING ANTENNA	UMTS 850/1900	118'	65*
	1	EXISTING ANTENNA	700/ 1900	118'	175*
BETA	2		GSM 850		
BETA	3	EXISTING ANTENNA	WCS/850/2100	118'	175*
	4	EXISTING ANTENNA	UMTS 850/1900	118'	175*
	1	EXISTING ANTENNA	700/ 1900	118'	315*
GAMMA	2		GSM 850		
GAMMA P	3	EXISTING ANTENNA	WCS/850/2100	118'	315*
	4	EXISTING ANTENNA	UMTS 850/1900	118'	315*

NOTES:

. INFORMATION BASED ON PROVIDED RFDS CURRENT AT THE TIME DRAWINGS WERE INFORMATION BASED ON PROVIDED RFDS CURRENT AT THE TIME DRAWINGS WERE INCLUDION ON FINAL APPROVED RFDS. IN CASE OF CONFLICT, FINAL APPROVED RFDS SUPERSEDES THIS INFORMATION.

2. SEE RFDS FOR EXISTING AND PROPOSED ANTENNA MODEL/DIMENSIONS.

LOADING CHART NO SCALE 3 DETAIL NOT USED



INFINIGY8

PLANS PREPARED FOR:

FROM ZERO TO INFINIGY

1490 W. 121ST Avenue, Suite 101 Westminster, CO 80234 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER: 517-001

PROJECT MANAGER



ENGINEERING LICENSE:



P DRAWING NOTICE: =

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

DESCRIPTION	DATE	BY	RE
ISSUED FOR CONSTRUCTION	12/07/17	CTL	0

AT&T SITE NAME:

HOOPER

AT&T SITE NUMBER: -

UTL03078

AT&T FA NUMBER:

10088500

SITE ADDRESS:

2449 W. 4000 S. ROY, UT 84067

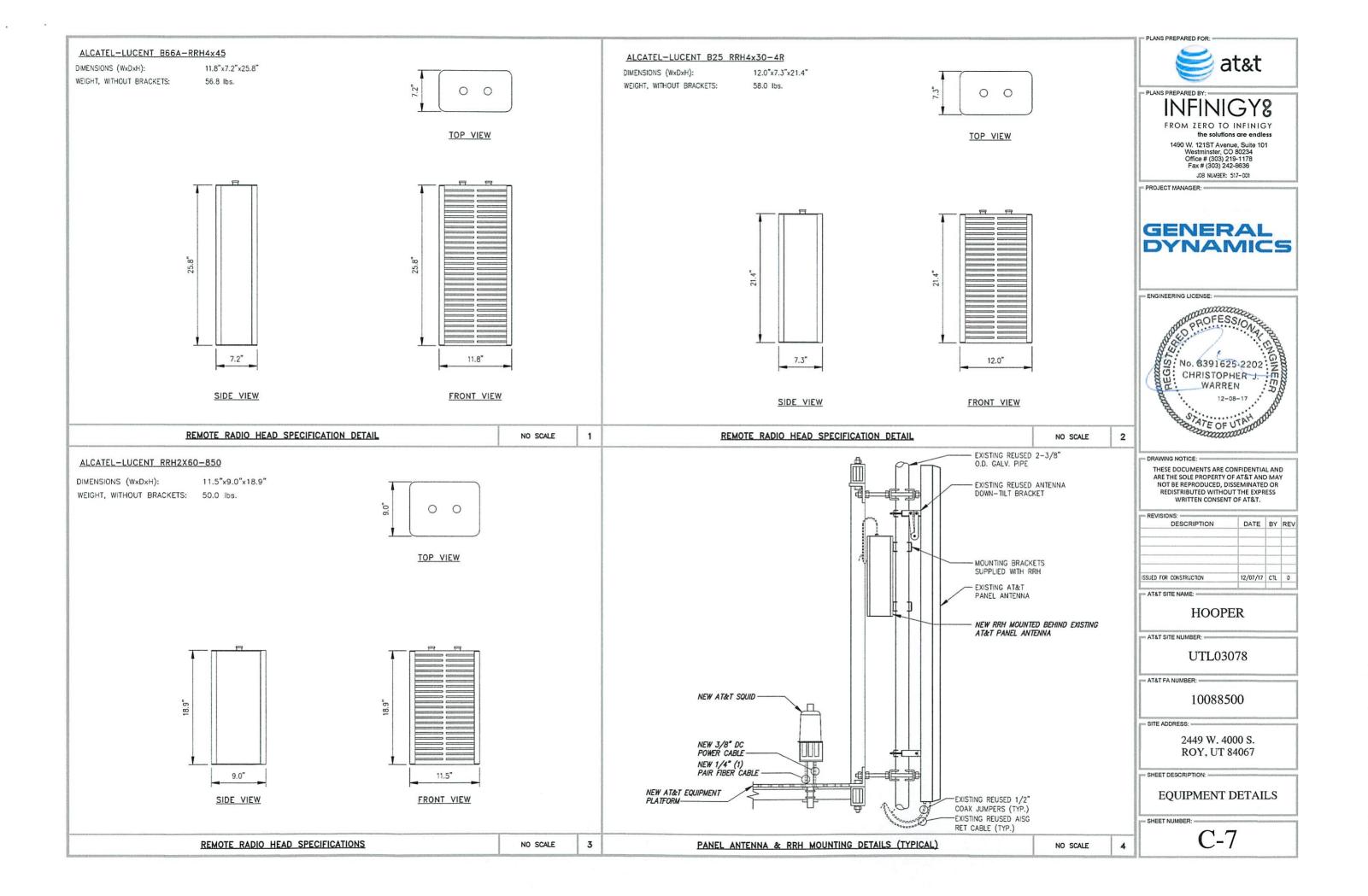
- SHEET DESCRIPTION: -

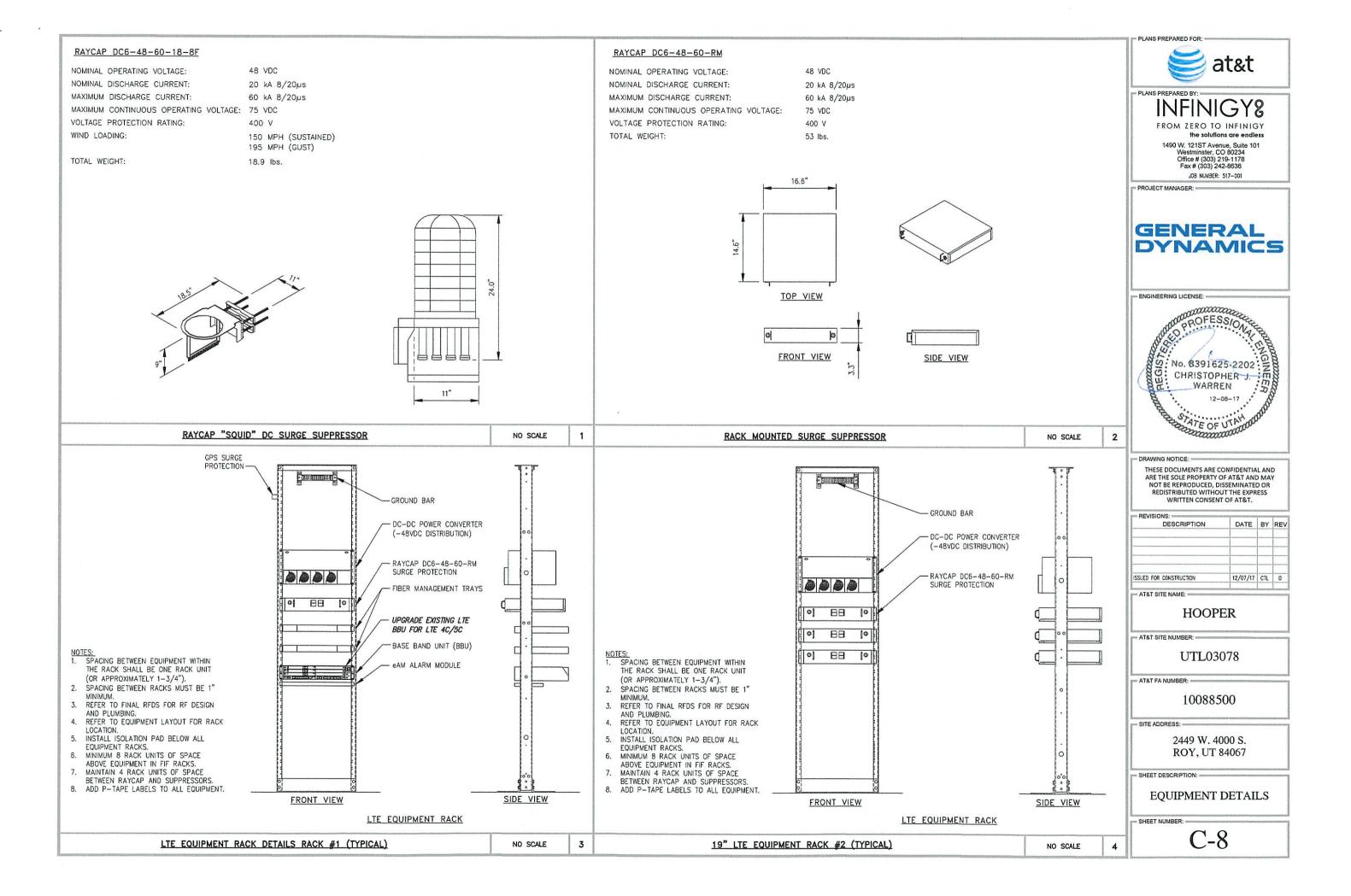
ANTENNA LAYOUT & LOADING CHART

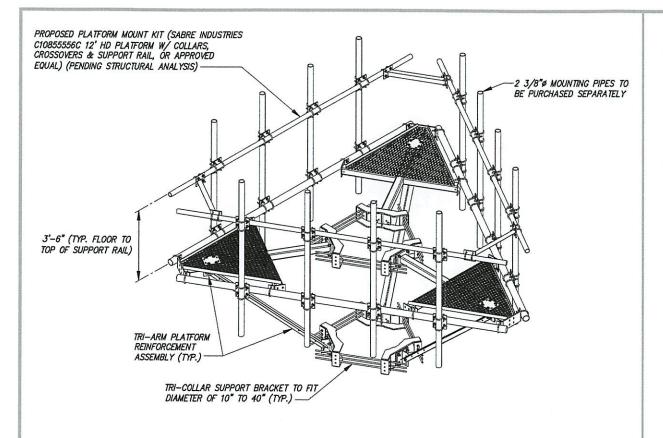
SHEET NUMBER:

NO SCALE

C-6







PLATFORM DETAILS

WEIGHT	PLATFORM W/COLLARS, CROSSOVERS & SUPPO	QTY.	TTEM
416	TRI-COLLAR BRACKET ASSEMBLY (10"-40" MONOPOLE)	2	1.
612	WELDMENT, PLATFORM CORNER	3	2.
268	SQUARE TUBE, 3 X 3 X 3/16 X 12'-6	3	3.
22	PLATE, UPPER CONNECTION	3	4.
31	WELDMENT, KICKER SUPPORT	3	5.
32	WELDMENT, KICKER SUPPORT	3	6.
82	ANGLE, KICKER	6	7.
56	PLATE, CONNECTION 3/8 X 4 3/8 X 3'-6 1/16	3	8.
106	PIPE, 1.9 O.D. X .145 X 12'-6	3	9.
53	CROSSOVER PLATE	12	10.
43	CROSSOVER PLATE	12	11.
9	BOLT ASSEMBLY, 5/8 Ø X 2 1/4 A325	18	12.
6	BOLT ASSEMBLY, 5/8 ø X 2 A325	12	13.
5	BOLT ASSEMBLY, 1/2 Ø X 6 1/2 GR5 FULL THD	12	14.
1	FLATWASHER, 5/8 Ø HARDENED ASTM F436	12	15.
1	FLATWASHER, 1/2 Ø HARDENED ASTM F436	24	16.
25	SQ. U-BOLT ASSEMBLY, 5/8 Ø X 4 1/4 C-C	12	17.
26	U-BOLT ASSEMBLY, 1/2 Ø X 2 9/16 C-C	36	18.
23	SQ. U-BOLT ASSEMBLY, 1/2 Ø X 3 5/8 C-C	24	19.
39	U-BOLT ASSEMBLY, 1/2 Ø X 2 15/16 C-C	48	20.
1	MOUNT CLASSIFICATION TAG C10855555C	1	21.
1	STAINLESS STEEL SELF-LOCKING CABLE TIE	2	22.
1858	TOTAL WEIGHT		

PROPOSED PLATFORM ANTENNA MOUNT ASSEMBLY NO SCALE PLATFORM TRI-ARM LOWER SUPPORT, SUPPORT RAIL & PARTS LIST 2 3/8" MOUNTING PIPES MUST BE PURCHASED SEPARATELY UPPER PLATE LOWER PLATE 10(19(20) 2122 2 10"-40" BACK TO BACK -POLE FRONT VIEW 12'-6"

PLANS PREPARED FOR:



INFINIGY

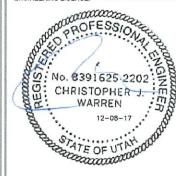
FROM ZERO TO INFINIGY

1490 W. 121ST Avenue, Suite 101 Wastminster, CO 80234 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER: 517-001

PROJECT MANAGER: =



ENGINEERING LICENSE:



P DRAWING NOTICE: -

NO SCALE

NO SCALE

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

REVISIONS:

DESCRIPTION

DATE BY REV

ISSUED FOR CONSTRUCTION

12/07/17 CTL 0

AT&T SITE NAME: -

HOOPER

AT&T SITE NUMB

UTL03078

AT&T FA NUMBER:

10088500

SITE ADDRESS:

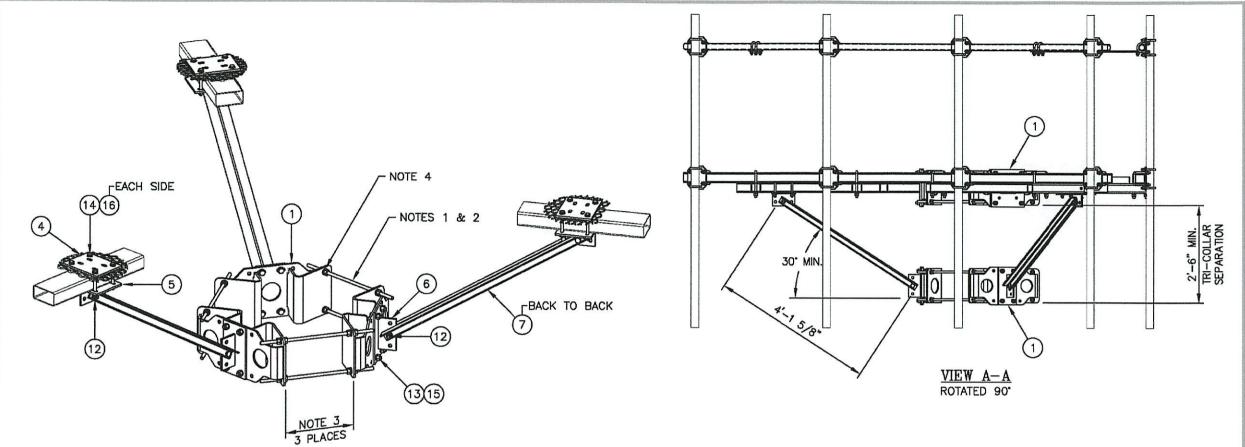
2449 W. 4000 S. ROY, UT 84067

-- SHEET DESCRIPTION: --

PLATFORM DETAILS

SHEET NUMBER:

C-9



PLANS PREPARED FOR:



INFINIGY8

FROM ZERO TO INFINIGY the solutions are endless

1490 W. 121ST Avenue, Suite 101 Westminster, CO 80234 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER: 517-001

PROJECT MANAGER:



= ENGINEERING LICENSE: =



DRAWING NOTICE: =

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

REVISIONS:

DESCRIPTION DATE BY REV ISSUED FOR CONSTRUCTION 12/07/17 CTL 0

AT&T SITE NAME:

HOOPER

= AT&T SITE NUMBER: ==

UTL03078

AT&T FA NUMBER:

10088500

SITE ADDRESS:

2449 W. 4000 S. ROY, UT 84067

SHEET DESCRIPTION:

PLATFORM DETAILS

SHEET NUMBER: -

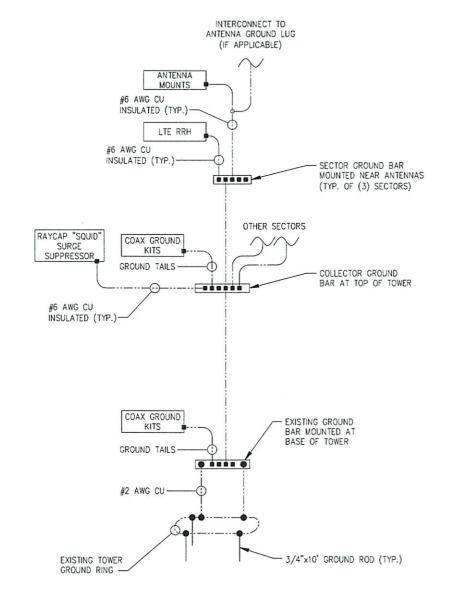
C-10

NOT USED

TRI-ARM ANTENNA PLATFORM SUPPORT ASSEMBLY

NO SCALE

NO SCALE



LEGEND:

EXOTHERMIC

COMPRESSION TYPE CONNECTIONS --- GROUNDING CONDUCTOR

SHELTER GROUNDING BAR GPS SURGE PROTECTION-- ISOLATED GROUND BAR #6 AWG STRANDED COPPER CONDUCTOR WITH GREEN, DC-DC POWER CONVERTER 600V. THWN-2 INSULATION (-48VDC DISTRIBUTION) GROUNDED TO GROUNDING BAR-RAYCAP DC6-48-60-RM SURGE PROTECTION FIBER MANAGEMENT TRAYS 88 ĵo - BASE BAND UNIT (BBU) - eAM ALARM MODULE

- NOTES:

 1. SPACING BETWEEN EQUIPMENT WITHIN THE RACK SHALL BE ONE RACK UNIT (OR APPROXIMATELY 1-3/4").
- SPACING BETWEEN RACKS MUST BE 1" MINIMUM.
- REFER TO FINAL RFDS FOR RF DESIGN AND PLUMBING. REFER TO EQUIPMENT LAYOUT FOR RACK LOCATION.
- INSTALL ISOLATION PAD BELOW ALL EQUIPMENT RACKS. MINIMUM 8 RACK UNITS OF SPACE ABOVE EQUIPMENT IN FIF RACKS.
- MAINTAIN 4 RACK UNITS OF SPACE BETWEEN RAYCAP AND SUPPRESSORS.
- ADD P-TAPE LABELS TO ALL EQUIPMENT.
- DETAIL INDICATES TYPICAL CONFIGURATION. ACTUAL SITE CONDITIONS MAY DIFFER.

PLANS PREPARED FOR:



FROM ZERO TO INFINIGY the solutions are endless

1490 W. 121ST Avenue, Suite 101 Westminster, CO 80234 Office # (303) 219-1178 Fax # (303) 242-8636 JOB NUMBER: 517-001

PROJECT MANAGER: =

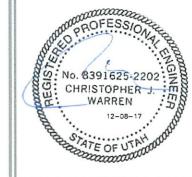
#2 AWG STRANDED COPPER

CONDUCTOR WITH GREEN,

600V INSULATION TO MAIN



ENGINEERING LICENSE:



- DRAWING NOTICE: -

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

DESCRIPTION	DATE	BY	REV
SSUED FOR CONSTRUCTION	12/07/17		0

- AT&T SITE NAME: =

HOOPER

AT&T SITE NUMBER: -

UTL03078

AT&T FA NUMBER: =

10088500

- SITE ADDRESS:

2449 W. 4000 S. ROY, UT 84067

SHEET DESCRIPTION: --

GROUNDING DETAILS

SHEET NUMBER:

G-1

LEGEND:

EXOTHERMIC

COMPRESSION TYPE CONNECTIONS

---- GROUNDING CONDUCTOR

LTE RACK GROUNDING (TYPICAL)

NO SCALE

LTE TOWER GROUNDING SCHEMATIC (TYPICAL)

NO SCALE

1

2