

BRYAN

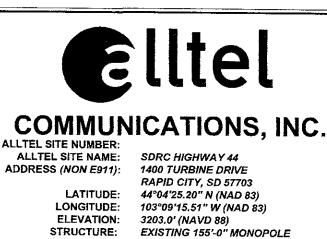
BKW

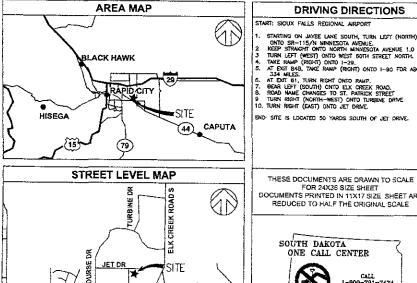
DESCRIPTION

FINA.

REVISE EASWENT

70NINO





MATERIAL INDEX

INSTALLED BY:

CONTRACTOR

VICINITY MAP

SUPPLIED BY:

ALLTEL COMMUNICATIONS, INC.

ALLTEL COMMUNICATIONS, INC.

ALLTEL COMMUNICATIONS, INC.

ALLTEL COMMUNICATIONS, INC

ALLTEL COMMUNICATIONS, INC.

CONTRACTOR

CONTRACTOR

CONTRACTOR

CONTRACTOR

CONTRACTOR

MATERIAL

SHELTER

MINI PPC CABINETS

ANTENNAS

ANTENNA MOUNTING BRACKETS

ANTENNA SECTOR MOUNTS

GPS ANTENNA

COAX

COAX ICE BRIDGE

UMPERS AND CONNECTORS

FENCE, GATE AND LATCH

GROUNDING, ELECTRICAL

& TELCO CONDUIT/WIRING

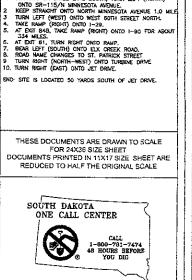
CONCRETE, WIRE MESH

AND REBAR

ANCILLARY COAX

CONNECTORS

CRUSHED ROCK



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-							

#### APPLICANT/ ALLTEL COMMUNICATIONS SITE ACQUISITION 1520 M STREET UNCOLN NE 88508 CONTACT: BETHANY WILSON PHONE: (402) 827-6112

PROJECT CONTACTS

PROPERTY OWNER: CONSECO FINANCE SERVICING CORP 1400 TURRINE DRIVE RAPID CITY, SD 57703 CONTACT DAVID BERTOCCHI TITLE: GENERAL MANAGER

**ENGINEERING** ASSOCIATED ENGINEERING, INC. CONSULTANT: 157 NORTH MAIN STREET ELKHORN, NE 68022 CONTACT. TOM MEDHI

SURVEYOR:

PROJECT ENGINEER

RE ENGINEER

ZONING

ELECTRIC

TELEPHONE

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PHONE: (605) 394-2186

BLACK HILLS ELECTRIC

CUSTER, SD 57730-0792

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5100 SOUTH BROADBAND LANE SIOUX FALLS, SD 57108

BOX 792

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3650 131ST AVENUE SE #400

CONTACT: MICHAEL FRISHMAN

DENVER, CO 80249

COMMUNICATIONS, INC. 18300 EAST 71ST AVENUE SUITE 120 18300 EAST 71ST AVE., SUITE # 120

APPLICANT/OWNER

DENVER, CO 80249-7370 DRAWN BY: CHK BY: APV BY.

ASSOCIATED.

ENGINEERING, INC.

157 NORTH MAIN ST.

ELKHORN, NE 58022

PH: (402) 289--5040

FAX: (402) 289-5045 AEPC PROJECT \$1607

I HEREIM CERTEM THAT THIS CHEMETHAND COCKY-APIT WAS PREPARED BY ME OF MADDE: MY DIRECT PERSONAL SUPPRASON AND THAT I AM A DULT CEMED PROFESSIONAL DECEMBER WOOD. THE LAWS OF THE STATE OF SOUTH DAKOD.

Tomboth onosor

PROFESSIO

TOM

MEDH

Tom Media Date
MY LICENSE RENEWAL DATE IS DEC. 31, 2008

NK/OHF PPROVALS:

ALLTEL PROJECT ENGINEER ALLTEL PROPERTY SPECIALIST

OWNER ALLIEL SITE NAME:

SDRC HWY 44

LLTEL SITE NUMBER

SUBMITTALS

DATE

DESCRIPTION

01/05/07 100% CONST. DWGS 11/20/06 90% CONST. DWGS

DRAWING TITLE

TITLE SHEET DRAWING NUMBER.

T-1

IMAR 0 7 2007

PROJECT NUMBER

#### GENERAL NOTES:

1 THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.

SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.

2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS EXTREME CALITION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED

3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND STIPULATED IN THE DESIGN AND CONSTRUCTION SPECIFICATIONS 4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE

REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. 5 THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE

EQUIPMENT AND TOWER AREAS

6 NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON PROZEN GROUND PROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

7 THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION

8. ALL, EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NUT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.

9 THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK. AND NOT COVERED BY THE BUILDING OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH MULCH AS SPECIFIED IN THE SPECIFICATION FOR LANDSCAPE WORK.

10. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

11. EXCAVATE MINIMUM NECESSARY TO GRUB SITE.

12. USE APPROVED MATERIAL FROM FOUNDATION EXCAVATION TO FILL AND GRADE SITE WITH CROWN AS INDICATED; COMPACT TO 90% OR, ENGINEERED FILL

13 WHERE NECESSARY DUE TO SOIL SITE CONDITIONS; REMOVE UNSUITABLE MATERIAL AND REPLACE WITH 4-6" OF 1/6" CRUSHED ROCK COMPACTED TO 90% OR ENGINEERED FILL. REVIEW WITH PROJECT MANAGER PRIOR TO PROCEEDING

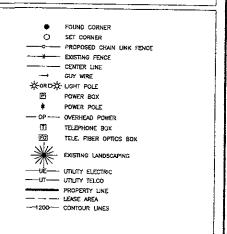
14 GRADE AROUND SHELTER AS REQUIRED, SLOPE TO ALL EDGES OF SITE PERIMETER AT 2.5% MINIMUM.

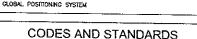
15 FINISH SITE AROUND PERIMETER OF STRUCTURE WITH 4" OF 36" X 36" CLEAN, CRUSHED ROCK WITH NO FINES, APPLY OVER GRADED, COMPACTED SOIL

#### ABBREVIATIONS

(E) EXISTING ISCW INSULATED STRANDED COPPER WIRE (M) MEASURED DISTANCE LG LONG (P) PLAT DISTANCE MAX MAXIMUM (0) DEED DISTANCE MECH MECHANICAL (R) RECORDED DISTANCE MANUFACTURE ADJ ADJUSTABLE MCB MASTER GROUND BAR AMPS INTERRUPTING CAPACITY AIC: MIN APPROXIMATE APPROX นก METAL. AWG AMERICAN WIRE GAUGE NIC: NOT IN CONTRACT 8CW BARE COPPER WIRE NO NUMBER BSCW BARE STRANDED COPPER WIRE NIS NOT TO SCALE eT\$ BASE TRANSMISSION SYSTEM OC. ON CENTER ¢ CONDUIT O/H OVERHEAD CAR CABINET OPP OPPOSITE ಬ CONSTRUCTION JOINT PCS PERSONAL COMMUNICATION SYSTEM CLG CEILING POWER PROTECTION CABINET CLR CLEARANCE RGS RIGID GALVANIZED STEEL CONC CONCRETE SQUARE FOOT CONT CONTINUOUS SHT SHEET DIA DIAMETER SIM SIMILAR DISC DISCONNECT SWITCH STAINLESS STEEL DWG DRAWING STL STEEL EΑ EACH TOC TOP OF CONCRETE EGB EQUIPMENT GROUND BAR TON TOP OF MASONRY

#### SYMBOLS AND MATERIALS





VF

UON

WWF

TYPICAL

VERIEY IN FIELD

UNLESS OTHERWISE NOTED

WELDED WIRE FABRIC

AMERICAN NATIONAL STANDARDS INSTITLITE NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION UNIFORM BUILDING CODE UNDERWRITERS LABORATORIES, INC.

EL.

ELEC

**DIT** 

FΩ

EXT

FF

GC

GALV

GEN

GND

GPS

ANSI

NEC

NEMA NEPA

UBC

UL

EQUIP

ELEVATION

ELECTRICAL

EQUIPMENT

GALVANIZED

GENERATOR

GROUND

FINISHED FLOOR

GENERAL CONTRACTOR

EXTERIOR

EQUAL.

ELECTRICAL METALLIC TUBING

ELKHORN NE 68022 PH: (402) 289-5040 FAX (402) 289-5045 AEPC PROJECT #1607 I HOMEN CONTRY THAT THIS DISMERRIAG COCK MEMIT WAS PREPARED BY ME OR VACIOR MY DOOR OFFICIAL CONTRIBUTION AND DAY I AM A DOOR PERSONAL SUPERMISSION AND THAT I AM A IN-LICENSED PROFESSIONAL ENGAGES UNDER THE OF THE STATE OF SERVIC DAVIDS. Tombodh 01,05,00 Tors Media Date W UCCHSE REMEMBER DATE IS DEC. 31, 2008 PROFESSION 8498 TOM MEDHI APPLICANT/OWNER

ASSOCIATED ENGINEERING, INC 157 NORTH MAIN ST

DRAWN BY ... CHK BY ... APV BY: NK/DHF NK TM. APPROVALS: ALLTEL PROJECT ENGINEER

COMMUNICATIONS, INC.

18300 EAST 71ST AVENUE

SUITE 120

DENVER, CO 80249-7370

ALLTEL PROPERTY SPECIALIST OWNER.

SDRC HWY 44

TAULTEL SITE NAME:

ALLTEL SITE NUMBER.

SUBMITTALS REV DATE DESCRIPTION 01/05/07 100% CONST. DWGS.

0 11/20/06 90% CONST DWGS DRAWING TITLE **GENERAL NOTES** 

DRAWING NUMBER-

GN-1

PROJECT NUMBER.

TENNA LEGEND OR COMA 808 (DUAL POLE)	ANTENNA #	ANTENNA SECTOR	ANTENNA MODEL	ANTENNA VENDOR	AZIM TRUE NORTH	UTH MAGNETIC NORTH	DOWN ELEC.	MECH	ANTENNA TYPE		MOUNT AZIMUTH	RAD CENTER	COAX DIAMETER	COAX TYPE	COLOR CODE	BRASS TAC INFO
	1	1	BXA-80063/8-5 FP	ANTEL	σ	351"	5 (	G.	PANEL	136±	o	136±	1 1/4"8	ANDREW HELIAX LDF6-50A	RED	1, TX/RX, CDMA 800, 136, C
													1 1/40	ANDREW HELIAX LDFG-50A	RED-RED	1, RX, CDMA 800, 136 C
	2	2	BXA-80063/8-5 FP	ANTEL.	120	1111	5	4"	PANEL	136±	120	136±	1 1/4"0	ANDREW HELIAX LDF6-50A	WHITE	2. TX/RX, CDNA 800, 136, 1
	<del> </del>	<del> </del>		<b></b>									1 1/4 6	ANDREW HELIAX LDF6-5GA	WHITE-WHITE	2, RX, CDNA 800, 136, 1
	3	3	BXA-80063/8-5 FP	ANTEL	240	231"	5 0	σ	PANEL	136±	240	136±	1 1/4 6	ANDREW HELIAX LDF6-50A	SLUE .	3, TX/RX, COMA 800, 136, 2
	1	<u> </u>		LI					( [				1 1/4 6	ANDREW HELIAX LDF6-50A	BLUE-BLUE	3. RX, CDNA 800, 136, 2

ANTENNA NOTES

1 VERIFY AZIMUTH, TYPE & QUANTTY OF EACH ANTENNA PER RF DESIGN 2 9ELD VERIFY EXACT LOCATION OF (1) G.P.S. ANTENNA SECTOR IDENTIFICATION NORMALLY A SITE WILL HAVE UP TO THREE

SECTORS, NUMBERING EACH IN A CLOCKWISE MANNER SHALL DESIGNATE. SECTORS, THE FIRST SECTOR IS THE ONE CLOSEST TO ZERO DEGREES (NORTH) THE SECOND AND THIRD FOLLOW CLOCKWISE IN SEQUENCE. 4. SECTOR COLOR CODE IDENTIFICATION

SECTOR #1 (ALPHA) RED SECTOR #2 (BETA) BLUE SECTOR #3 (GAMMA) WHITE 5. OMNI IDENTIFICATION. IDENTIFY THE OWNI ANTENNA LOCATION RELATIVE TO

**ANTENNA NOTES** 

THE CARDINAL DIRECTIONS. 5. COLOR CODE LOCATIONS, COLOR CODES LITLIZING COLORED ELECTRICAL TAPE TO FORM BANDS ON THE COAX SHALL BE LOCATED AT THE FOLLOWING LOCATIONS

USING 1" MIDE WEATHERPROOF COLORED VINYS, TAPE, AS FOLLOWS. A. ON THE COAX AT THE CONNECTOR NEAREST THE ANTENNA (WHERE THE COAX

AND JUMPER ARE CONNECTED). B ON THE COAX OUTSIDE THE COAX PORT AT THE BASE OF THE TOWER

C. ON THE COAX JUST INSIDE THE COAX PORT AND BEFORE THE JUMPER TO THE EQUIPMENT

D. ON THE END OF THE JUMPER NEAREST THE COAX PORT E. ON THE JUMPER AT A POINT OUTSIDE JUST THE EQUIPMENT CABINET AND PRIOR TO MCR.

1 CONTRACTOR TO PROVIDE COMPLETE SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION

2 CONTRACTOR TO NOTIFY PROJECT MANAGER OF ANY DISCREPANCIES WITH THE PROPOSED LAYOUT PRIOR

 ALL PIPES, BRACKETS, PLATES AND MISC. HARDWARE TO BE GALVANIZED UNLESS OTHERWISE NOTED 4 ALL ANTENNA AND COAXIAL ANTENNA CABLE TO BE FURNISHED BY LESSEE/OPERATOR AND INSTALLED BY

ALL HARDWARE AND CONNECTORS TO BE GALVANIZED UNLESS OTHERWISE NOTED.

SET ARE FOR INFORMATION AND LAYOUT ONLY DESIGN AND ANALYSIS BY OTHERS

B ANTENNA MOUNT DETAILS SHOWN IN THIS DRAWING

ANTEL DOWNTILT BRACKET ANTEL MOUNTING BRACKET P/N 35114003 -P/N 36210002 TOP OF ANTENNAS 140"-0" AGL EXISTING MONOPOLE PROPOSED KNOCK DOWN UNIVERSAL TRI-BRACKET FOR 12" TO 36" DIAMETER MONOPOLE (VALMONT P/N 801068) & ANTENNAS PROPOSED PANEL ANTENNA 136'-0" A.G.L. 2%"# 0.0 x8"-6" SCHEDULE 40 ANTENNA MOUNTING PIPE BOTTOM OF ANTENNAS (VALMONT PART #81479 132'-0" A.G.L. OR EQUAL, TOTAL OF 3)

> ELEVATION VIEW FROM SOUTH ANTENNA CENTERLINE AT 136'-0"±

SECTOR 1 AZIMUTH, O' (TN) Tz/Rx ANTENNAS SHOULD BE ADDED AS PER PROPOSED KNOCK DOWN RED-RED UNIVERSAL TRI-BRACKET MANUFACTURERS FOR 12" TO 36" DIAMETER MONPOLE **SPECIFICATIONS** (VALMONT P/N 801068) EXISTING MONOPOLE -ANTENNA AZIMUTHS AS SHOWN

ANTENNA CENTERLINE AT 136'-0"±

PROPOSED KNOCK DOWN UNIVERSAL TRI-BRACKET SEE ANTENNA SCHEDULE THIS FOR 12" TO 36" DIAMETER MONPOLE SHEET FOR ALL SECTOR COLOR (VALMONT P/N 801068) CODING. (SECTOR 1 SHOWN) RED 2% # 0.0 x7'-0" SCHEDULE 40 ANTENNA MOUNTING PIPE (VALMONT PART #81461. OR EQUAL, TOTAL OF 3)

EXISTING MONOPOLE -

**DUAL POLE ANTENNA** COAX CONNECTION

RED

TX1/RX1-

ANTENNA -

FLUSH MOUNT DETAIL

**ANTENNA MOUNT DETAIL** 

COMMUNICATIONS, INC. 18300 EAST 71ST AVENUE SUITE 120 DENVER, CO 80249-7370 DRAWN BY. CHK BY APV BY: NK/DHF ALLTEL PROJECT ENGINEER ALLTEL PROPERTY SPECIALIST OWNER TALLTEL SITE NAME: SDRC HWY 44 TALLTEL SITE NUMBER REV DATE DESCRIPTION 0 01/05/07 100% CONST DWGS 0 11/20/06 90% CONST. DWGS DRAWING TITLE: ANTENNA SCHEDULE AND DETAILS DRAWING NUMBER. C-4

PROJECT NUMBER.

ASSOCIATED ENGINEERING, INC 157 NORTH MAIN ST ELKHORN, NE 68022 PH: (402) 289-5040 FAX: (402) 289-5045 AEPC PROJECT #1607

> 01/05/07 Date

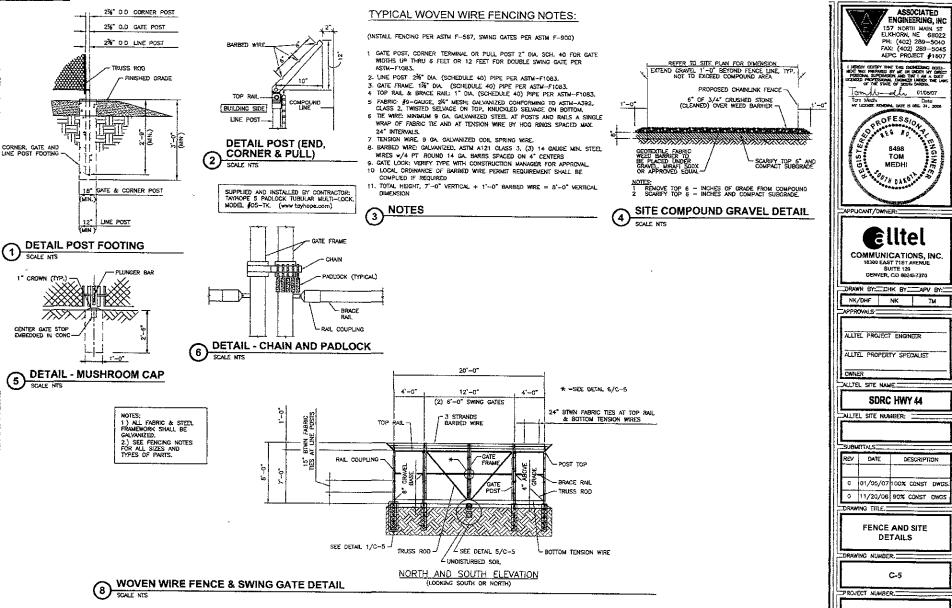
I HERELY CERTIFY THAT THIS DETAILED BUT DOCUMENT BY ME OR UNDER MY DIRECT PERSONAL SUPPRISON AND THAT I AN A TRAY INCIDENCE OF THE CONTROL OF THE THE LING OF THE STATE OF SOUTH DIRECT.

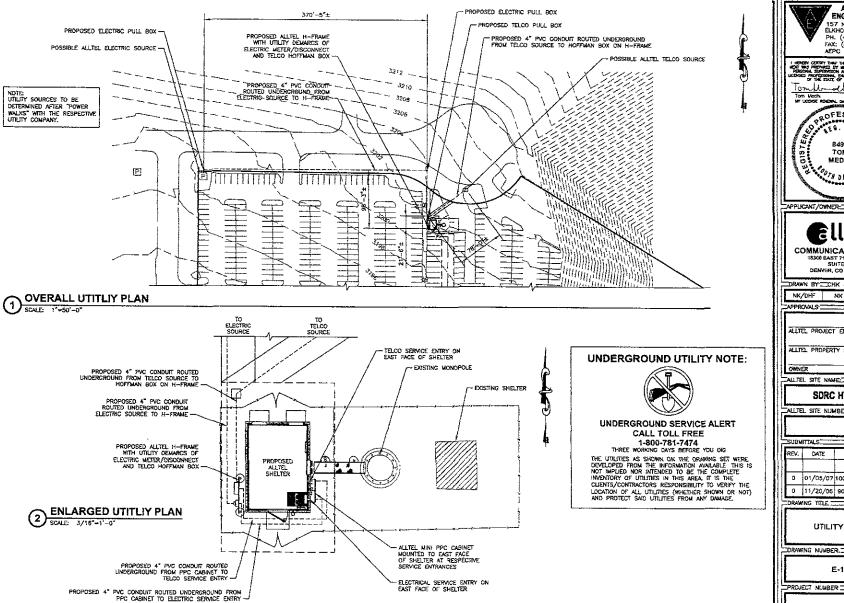
MY LICENSE REMEMAL DATE IS DEEL 31, 2008 POFESSION

TOM

MEDH

APPLICANT/OWNER:





**ASSOCIATED** ENGINEERING, INC 157 NORTH MAIN ST. ELKHORN, NE 68022 PH. (402) 289-5040 FAX: (402) 289-5045 AEPC PROJECT #1607 I HENERY CENTRY THAT THIS INCHMERING COCUMENT HIS PREPARED BY ME ON UNDER MY DIRECT PERSONAL SUPPRISON AND THAT I MA A BLLY LICENSED PROTESSIONAL SUPPRISONAL DIRECT HOSE THE LAWS OF THE EXATE OF SOLAH DIRECT. Tom Methy Date Size 31, 2006 POFESSION TOM MEDH! IN DIKO

COMMUNICATIONS, INC.

18300 EAST 71ST AVENUE SUITE 120 DENVER, CO 80249-7370

DRAWN BY THE BY TAPV BY. NK/DHF NK TM APPROVALS:

ALLTEL PROJECT ENGINEER

ALLTEL PROPERTY SPECIALIST

OWNER

SDRC HWY 44

ULTEL SITE NUMBER

SUBMITTALS"

DATE DESCRIPTION 0 01/05/07 100% CONST DWGS

0 11/20/06 90% CONST DWGS DRAWING TITLE

UTILITY PLAN

DRAWING NUMBER.

Ë-1

PROJECT NUMBER

#### NOTES

ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRICAL CODES AND ALL LOCAL AND STATE CODE, LAWS AND ORDINANCES PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC

CONTRACTOR SHALL COORDINATE WITH LOCAL POWER COMPANY FOR REQUIREMENTS OF POWER SERVICE LINE TO THE METER BASE POWER SERVICE REQUIREMENT IS COMMERCIAL AC NOMINAL 120/208 VOLT OR 120/240 VOLT, SINGLE PHASE WITH 200 AMP RATING. SERVICE TO MATCH EXISTING SPRINT SERVICE VOLTAGE

CONTRACTOR SHALL COORDINATE WITH LOCAL TELEPHONE COMPANY FOR REQUIREMENTS OF "TI" SERVICE LINE TO TERMINATE AT THE TELCO DEMARC

CONTRACTOR SHALL FURNISH AND INSTALL ELECTRIC METER BASE AND 200A DISCONNECT SWITCH PER SITE PLAN AND DETAIL DRAWINGS. THE METER BASE SHOULD BE LOCATED IN A MANNER WHERE ACCESSIBLE BY THE LOCAL POWER COMPANY

LOCAL POWER COMPANY SHALL PROVIDE 20D AMP ELECTRIC METER, CONTRACTOR SHALL COORDINATE INSTALLATION OF METER WITH LOCAL POWER COMPANY.

UNDERGROUND POWER AND TELCO SERVICE SERVICE LINES SHALL BE ROUTED IN A COMMON TRENCH. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40. CONDUIT EXPOSED ABOVE GROUND SHALL BE RIGID GALVANIZED STEEL UNLESS OTHERWISE INDICATED POWER CONDUIT LINES SHALL BE SIZED AS REQUIRED FOR CABLE FILL AND NEC REQUIREMENTS.

THE TELCO CONDUIT FROM THE PPC SHALL BE ROLTED AND TERMINATED AT DESIGNATED TELCO DEMARCATION OR 2-FEET DUTSIDE FENCED AREA NEAR UTILITY POLE (IN FENCED AREA), OR END "CAP OFF AND PROVIDE MARKER STAKE PAINTED SRIGHT ORANGE WITH DESIGNATION FOR TELCO SERVICE.

CONDUITS INSTALLED AT CELLULAR EQUIPMENT ENDS PRIOR TO THE EQUIPMENT INSTALLATION SHALL BE STUBBED AND CAPPED AT 6" ABOVE GRADE OR PLATFORM IF SERVICE UNES CAN'T BE INSTALLED INITIALLY, PROVIDE NYLON PULL CORD IN CONDUITS.

LOCATION OF ELECTRIC METER AND DISCONNECT SWITCH TO BE DETERMINED BY ELECTRICAL CONTRACTOR, ALLTEL FIELD CONSTRUCTION MANAGER AND UTILITY COMPANY

ALL STUP--UP CONDUITS SHALL HAVE INSTALLED & DIAMETER PULL CORD



SCALE:

NEW 120/240V, 1 PHASE. 200A 1# NEWA 3R FUSED NEMA 3R METER. DISCONNECT SWITCH 3#3/0, 1#4 GRD - 2%\*# CONDUIT IF DISTANCE IS GREATER THAN 100'-0" 1200/2 USE 3#4/0, 1#4 GRD ON NEW SITES. 4 # CONDUIT 5" DIAMETER /200/2 TO EXISTING TI TELEPHONE SERVICE MINIMUM RCS 200A EMERGENCY INDUCTION GENERATOR RECEP CHOKE OVER INCOMING SERVICE 4"# SCH 40 MINI PPC PVC CONDUIT CABINET MINI PPO (ELECTRIC) TELCO CARINET MINI PPC CABINET GROUND LINE 200. (TELCO) 24 3#4/0. 1 SET 3-350MCM IN (1) 4" C 1#4 GRD -2½° SCH 40 PVC CONDUIT 4°4 CONDUIT 2½° SCH 40 PVC CONDUIT F3/0 GROUND TO WATER TO TRANSFORMER SERVICE, BUILDING STEEL INSTALL IN ACCORDANCE TO m AND GROUND ROD 3/4" SHELTER SHELTER WITH OPPD METER BY REQUIRED LENGTH TO **SPECIFICATIONS** OBTAIN 5 OHMS MAXIMUM RESISTANCE MEASURED BY BIDDLE METHOD.

ELECTRIC PROPOSED 4" PVC CONDUIT ROUTED UNDERGROUND FROM SOURCE TO SERVICE METER WITH DISCONNECT MOUNTED ON SOUTH FACE OF SHELLER THEM POSCONNECT MOUNTED ON IN 4" PVC CONDUIT TO ALLTEL MINI PPC CASINET MOUNTED ON SOUTH FACE OF SHELLER THEM ROUTED IN 2 1/2" PVC CONDUIT TO SERVICE ENTRY ON EAST SIDE OF SHELTER TO LOAD CENTER IN CABINET	TELCO PROPOSED 25" PVC CONDUIT ROUTED UNDERGROUND FROM SOURCE TO ALIZEL MINI PPC CABINET MOUNTED ON WEST FACE OF SHELTER, THEN ROUNTED IN 25" PVC CONDUIT TO TELCO SERVICE ENTRY ON WEST FACE OF SHELTER TO TO LOAD CENTER IN CABINET.

POWER/TELCO ONE-LINE DIAGRAM

PER NEC 250-24

#### **UNDERGROUND UTILITY NOTE:**

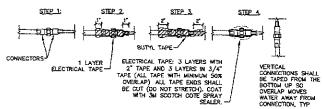


#### UNDERGROUND SERVICE ALERT **CALL TOLL FREE**

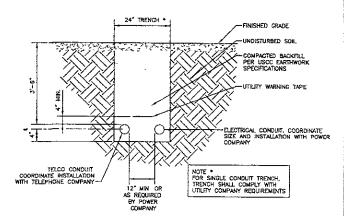
1-800-781-7474

THREE WORKING DAYS BEFORE YOU DIG

THE UTILITIES AS SHOWN ON THE DRAWING SET WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THIS IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA IT IS THE CLIENTS/CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE



### CABLE CONNECTOR WATERPROOFING



SHARED TRENCH DETAIL SCALE, N.T.S

ASSOCIATED ENGINEERING, INC 157 NORTH MAIN ST. ELKHORN, NE 68022 PH. (402) 289-5040 FAX: (402) 289-5045

AEPC PROJECT #1607 HARRIET CERTIFY THAT THE DIEMPEDIANC COCUMENT WAS PROPARED BY UE OR CHIEFE MY DREAT PERSONAL SUPERISSEN AND THE I AM A DULY 01/05/07 Tom Media LICENSE RENEWAL DATE IS DEC. 31, 2006 ROFESS/O 8498 TOM 3 MEDH

APPLICANT/OWNER

18300 EAST 71ST AVENUE **SUITE 120** DENVER, CO 80249-7370

DRAWN BY CHK BY APV BY NK/DHF TM APPROVALS

ALLIEL PROJECT ENGINEER

ALLTEL PROPERTY SPECIALIST

OWNER

ALLTEL SITE NAME.

SDRC HWY 44

CALLTEL SITE NUMBER:

SUBMITTALS

REV DATE DESCRIPTION 01/05/07 100% CONST. DWGS 11/20/06 90% CONST. DWGS

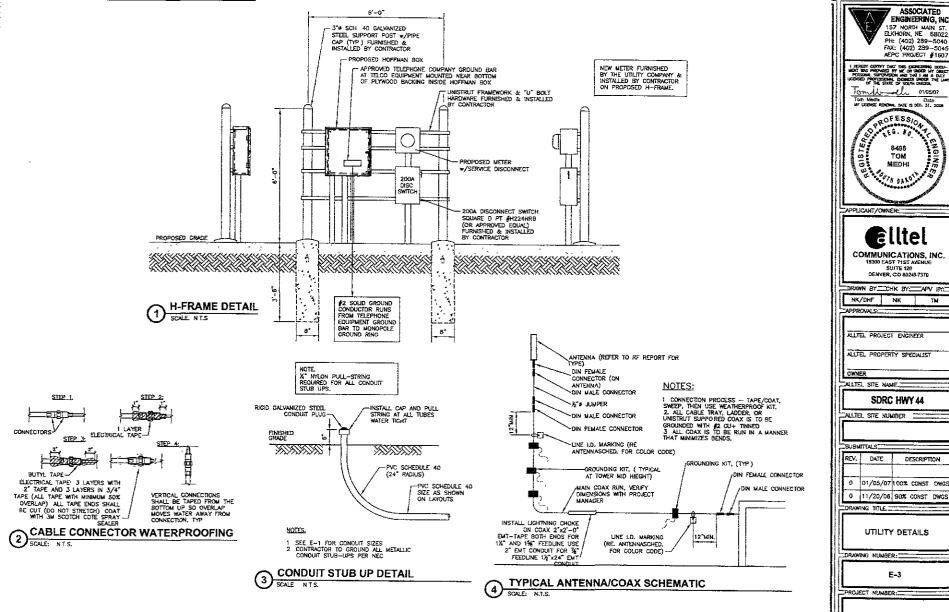
DRAWING TITLE.

UTILITY DETAILS

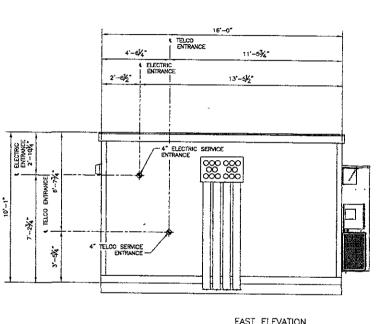
TORAWING NUMBER

E-2

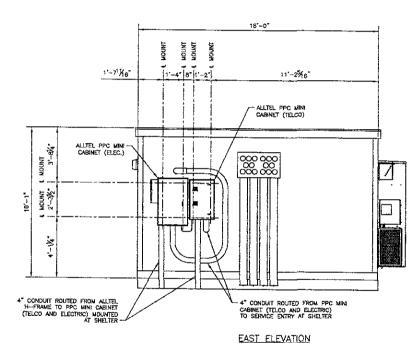
PROJECT NUMBER:



DESCRIPTION



EAST ELEVATION (LOOKING WEST) SHELTER UTILITY ENTRANCE DETAIL SCALE: NTS.



(LOOKING WEST)

SHELTER PPC MOUNTING DETAIL SCALE: N.T.S.

ASSOCIATED ENGINEERING, INC 157 NORTH MAIN ST ELKHORN, NE 58022 PH. (402) 289-5040 FAX: (402) 289-5045 AEPC PROJECT \$1607 Tom Medis Described State of Solid S TOM MEDHI APPLICANT/OWNER:

COMMUNICATIONS, INC. 18300 EAST 71ST AVENUE SUITE 120 DENVER, CO 80249-7370

DRAWN BY: CHK BY APV BY NK/DHF NK n. APPROVALS.

ALLTEL PROJECT ENGINEER

ALLTEL PROPERTY SPECIALIST OWNER

CALLTEL SITE NAME: SDRC HWY 44

CALLTEL SITE NUMBER

SUBMITTALS"

REV.

DATE

01/05/07 100% CONST. DWGS

0 11/20/06 90% CONST DWGS

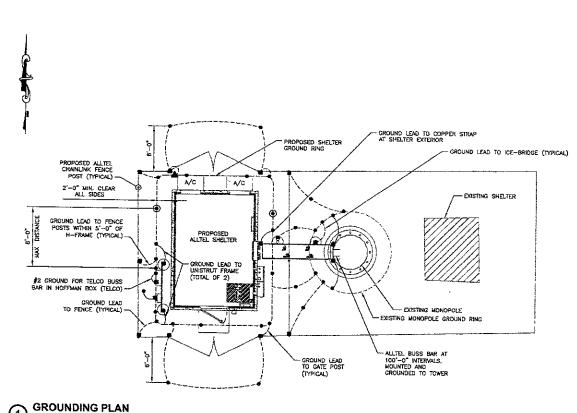
DRAWING TITLE

UTILITY DETAILS IDRAWING NUMBER:

E-4

DESCRIPTION

PROJECT NUMBER:



GROUNDING LEGEND SYMBOL DESCRIPTION 5/8" DIAMETER x 8"-0" STEEL GROUND ROD. CLAD WITH A PURE COPPER JACKET OF NOT LESS THAN 0.010 INCHES THICK GROUND TEST WELL WIRE ROUTED UNDERGROUND WIRE ROUTED ABOVE GROUND EXOTHERMIC TYPE CONNECTION (CADWELD) MECHANICAL TYPE CONNECTION

#### NOTES

EARTH GROUND TESTING:

A PRE-RESIDINTY TEST SHALL BE PERFORMED PRIOR TO BREAKING GROUND AT A SITE.

PRIOR TO INSTALLATION OF EARTH GROUND SYSTEM. CONTRACTOR TO FORWARD PRE-RESITIVITY TEST DATA TO ALLTEL'S PROJECT

CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRE-RESISTIVITY TEST

ENGINEER TO DETERMINE FINAL DESIGN OF EARTH GROUND SYSTEM CONTRACTOR TO SUBMIT BID FOR STANDARD EARTH GROUND SYSTEM IF A CHEMICAL GROUND ROD SYSTEM IS REQUIRED, AN ADDENDA WILL BE

MADE TO THE ORIGINAL SCOPE OF WORK AND BID ACCORDINGLY. THE PRE-RESISTIVITY TEST DATA WILL BE UTILIZED TO DETERMINE THE TYPE OF GROUND FIELD TO BE INSTALLED.

TESTING SHALL BE PERFORMED USING AN APPROPRIATE FOUR POLE EARTH CROUND TESTER OR VIA SOIL SAMPLES

PRE-RESISTIVITY READINGS LESS THAN 15,000 OHM-CM-PRE-RESISTIMITY READINGS LESS THAN 15,000 OHM-CM (USUALLY GOOD

CLAY SOIL) THEN INSTALL THE GROUND SYSTEM AS SHOWN IN ALLTEL WIRELESS GROUNDING & BONDING SPECIFICATION'S DRAWING 40

PRE-RESISTIVITY READINGS 15,000-30,000 OHM-CM-

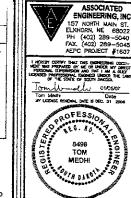
IF THE RESISTIVITY IS GREATER THAN 15,000 OHM-CM, AND LESS THAN 30,000 OHM-CM THEN INSTALL THE GROUND SYSTEM AS SHOWN IN ALLTEL WIRELESS GROUNDING & BONDING SPECIFICATION'S DRAWING 40 SEE SECTION 10 OF THE SPECIFICATION BOOK FOR METHODS THAT MAY BE

UTILIZED TO DECREASE THE OVERALL SOIL RESISTANCE. PRE-RESISTIVITY READINGS GREATER THAN 30,000 OHM-CM:

SOME LOCATIONS MAY ENCOUNTER SOLID ROCK, SAND OR VERY HIGH PRE-RESIDINGS. THERE ARE SEVERAL ALTERNATIVES THAT MAY LOWER THE OVERALL SITE RESISTIVITY. THE TYPE OF SOIL AND THE CONDITION OF THE SOIL DETERMINES THE EARTH GROUNDING SYSTEM THAT MAY BE REQUIRED.

AN APPROVED AND QUALIFIED GROUNDING SPECIALIST MAY BE REQUIRED TO DESIGN THE SITE EARTH GROUND SYSTEM IF THESE CONDITIONS ARE

SEE SECTION 10 OF THIS SPECIFICATION FOR METHODS THAT MAY BE UTILIZED TO DECREASE THE OVERALL SOIL RESISTANCE.



COMMUNICATIONS, INC.

APPLICANT/OWNER.

18300 EAST 71ST AVENUE **SUITE 120** DENVER, CO 80249-7370 DRAWN BY \_\_CHK BY\_\_APV BY:\_

NK/DHF NK APPROVALS: ALLTEL PROJECT ENGINEER

ALLTEL PROPERTY SPECIALIST

OWNER ALLIEL SITE NAME:

SDRC HWY 44

ALLTEL SITE NUMBER

SUBMITTALS

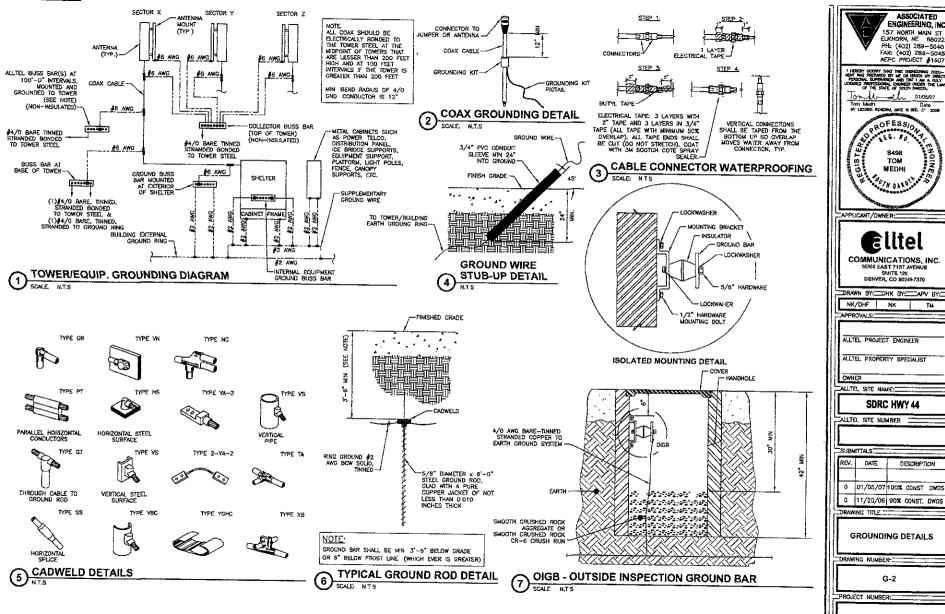
REV. DATE DESCRIPTION 0 01/05/07 100% CONST DWGS. 0 11/20/06 90% CONST. DWGS

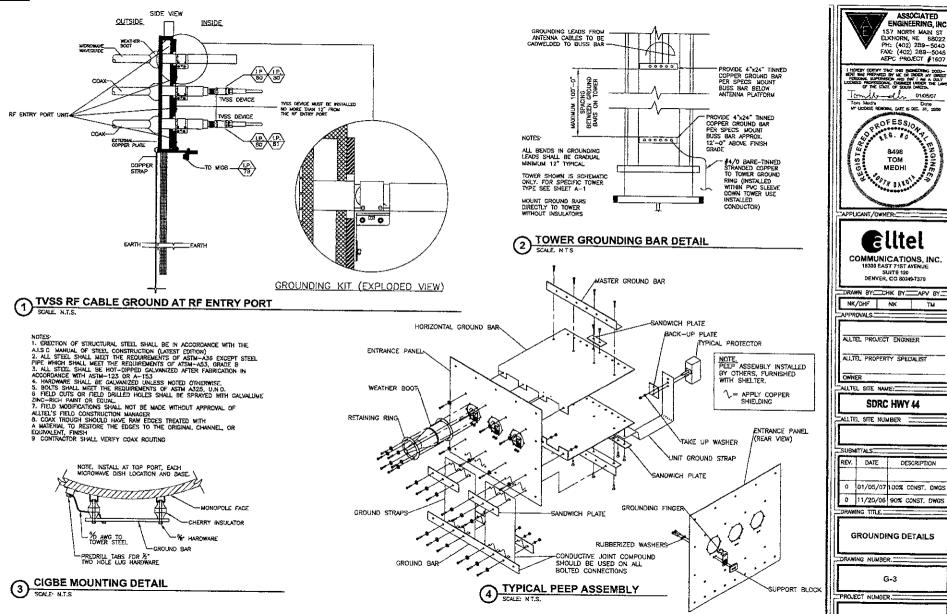
DRAWING TITLE. GROUNDING PLAN AND NOTES

DRAWING NUMBER:

G-1

PROJECT NUMBER.

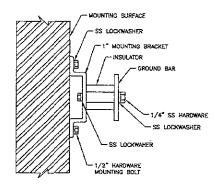




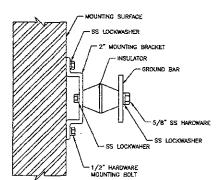
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01/05/07

DESCRIPTION

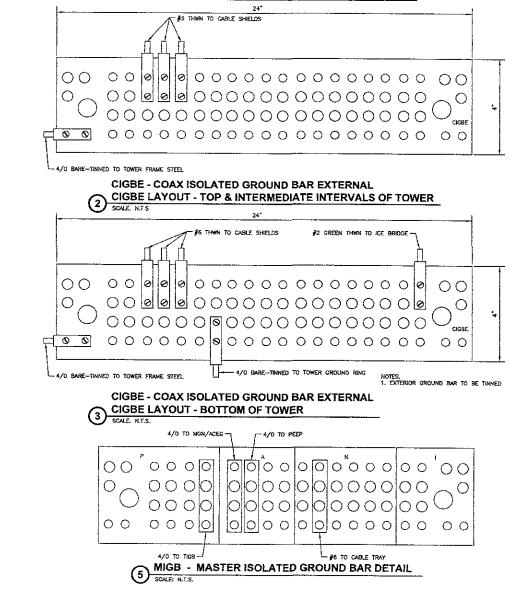


# TIGB - TELCO GROUND BAR MOUNTING DETAIL G5 SCALE, N.T.S.



MIGB - MASTER ISOLATED GROUND

A BAR MOUNTING DETAIL G6
SOME NTS



ASSOCIATED
ENGINEERING, INC.
157 NORTH MAIN ST.
ELKHORN, NE. 58022
PH: (402) 289—5040
FAX: (402) 289—5045
ASPC PROCECT #1657
I STORY CONTROL OF THE CONTROL

COMMUNICATIONS, INC.
18200 EAST 71ST AVENUE
SUITE 120
DENVER, CO 80248-7370

DRAWN 8Y: CHK BY APV BY:
NK/DHF NK TM
APPROVALS

ALLIEL PROJECT ENGINEER
ALLIEL PROPERTY SPECIALIST

OWNER

SDRC HWY 44

ALLTEL SITE NUMBER:

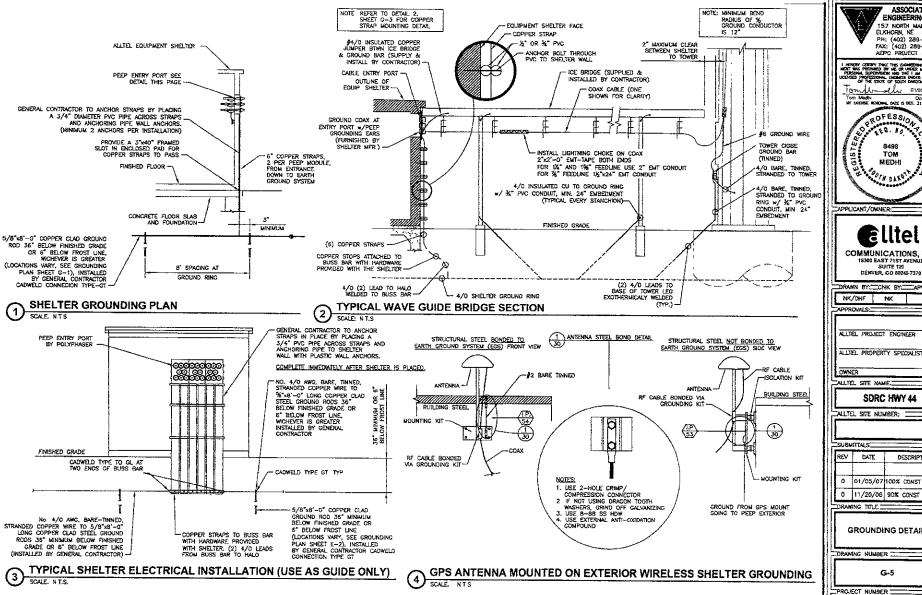
0 01/05/07 100% CONST. DWG

GROUNDING DETAILS

DRAWING NUMBER:

G-4

PROJECT NUMBER.



**ASSOCIATED** ENGINEERING, INC 157 NORTH MAIN ST ELKHORN, NE 68022 PH: (402) 289-5040 FAX: (402) 289-5045 AEPC PROJECT #1607 I HENDRY CONTRY THAT THIS DIAMEDING DOCU-MENT THIS PREMIED BY ME OF UNDER MY DIRECT PERSONAL SUPPRISON AND HAT I MY A DILLY UCCHSED PROFESSIONAL DIAMEDE MODIO. OF THE STATE OF SOLIN DIMEDIA. Tomboli 01,05007 Torn Mediu MT LICENSE REMEMBL DATE IS DET. 31, 2008 POFESSION 8498 TOM MEDHI OTH DAKE EAPPLICANT/OWNER COMMUNICATIONS, INC. 18300 EAST 71ST AVENUE SUITE 120 DENVER, CO 80249-7370 DRAWN BY: CHK BY: APV BY: NK/OHF APPROVALS ALLIEL PROJECT ENGINEER

ALLTEL SITE NAME

SDRC HWY 44

ALLTEL SITE NUMBER:

**ESUBMITTALS** 

DATE

01/05/07/100% CONST DWGS 11/20/06 90% CONST DWGS

DRAWING TITLE

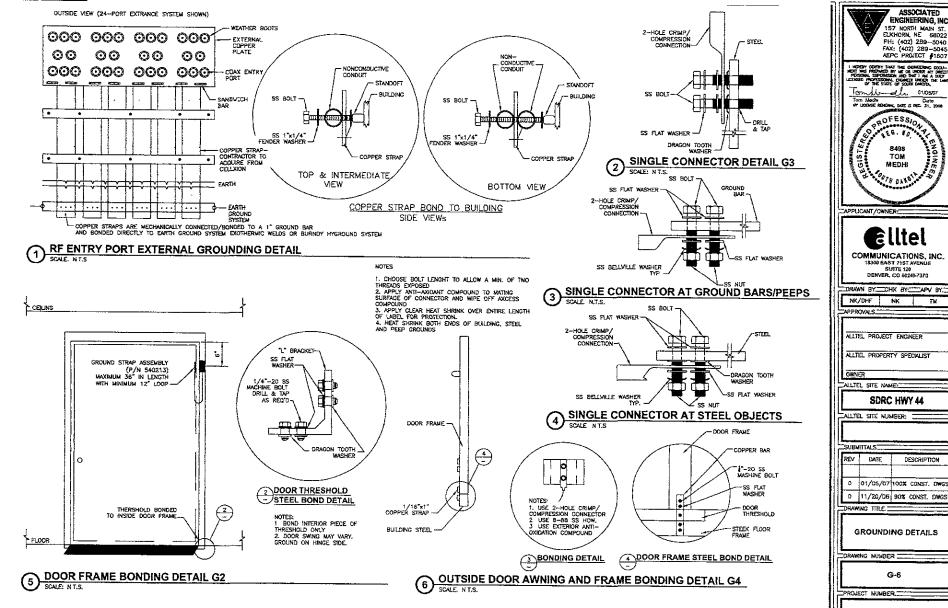
GROUNDING DETAILS

CORAMING NUMBER

G-5

DESCRIPTION

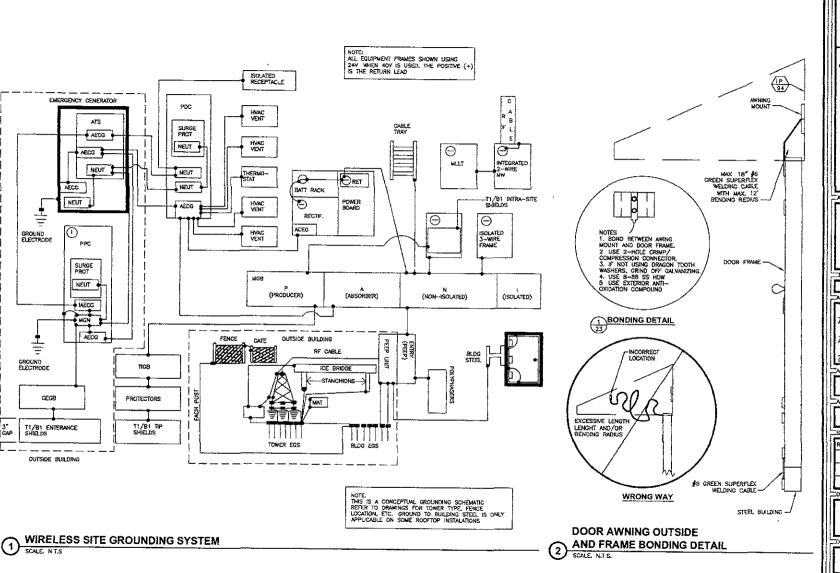
TPROJECT NUMBER



ASSOCIATED

01/05/07

DESCRIPTION



ENGINEERING, INC 157 NORTH MAIN ST. ELKHORN, NE 68022 PH: (402) 289-5040 FAX: (402) 289-5045 AEPC PROJECT #1507 01/05/07 PROFESSION 8498 TOM MEDHI APPLICANT/OWNER COMMUNICATIONS, INC. 18300 EAST 71ST AVENUE SUITE 120 DENVER, CO 80249-7370 DRAWN BY CHK BY APV BY NK/DHF NK APPROVALS: ALLTEL PROJECT ENGINEER ALLTEL PROPERTY SPECIALIST OWNER ALLTEL SITE NAME CALLTEL SITE NUMBER: SUBMITTALS" REV DATE DESCRIPTION 01/05/07 100% CONST. DWGS

ASSOCIATED

SDRC HWY 44

11/20/06 90% CONST DWGS

DRAWING TITLE

**GROUNDING DETAILS** 

DRAWING NUMBER:

G-7

TPROJECT NUMBER.

NELITRAL = WHITE

277/480 THREE PHASE

PHASE "A" - YELLOW PHASE B . BROWN

PHASE "C" - DRANCE

ALL ELECTRICAL GROUND - GREEN ALL ISOLATED GROUND - GREEN/YELLOW STRIPE ALL SWITCHED - VIOLET

2 ALL CONDUCTORS (UNLESS OTHERWISE NOTED) TO BE STRANDED THEN, THEN OR THE.

3. ALL CONDUIT TO BE 3/4" EMT UNLESS OTHERWISE

NEUTRAL - GRAY

1 CONDUCTOR COLORS ARE AS FOLLOWING-6. PLACEMENT OF ELECTRICAL COMPONENTS TO BE 120/240 SINGLE PHASE DETERMINED BY THE AVAILABILITY OF PRE-MADE KNOCKOUTS PHASE A - BLACK AND/OR PENETRATION REQUIREMENTS. PHASE B = REO NEUTRAL = WHITE 7. DASHED LINES (-----) DENOTE FIELD WORK 120/208 THREE PHASE B ALL CIRCUITS ON 25 AMP THROUGH 50 AMP BREAKER PHASE "A" = BLACK PHASE "B" = RED PHASE "C" = BLUE

MUST USE \$10 GROUND CONDUCTOR PER NEC TABLE 1996 250-95; 1999 250-122; 2002 250.122 9. CONDUCTORS SMALLER THAN 4 AWG MUST HAVE CORRECT COLOR INSULATION CONDUCTORS 4 AWG AND LARGER MAY BE RE-IDENTIFIED BY COLORED TAPE. BLACK INSULATED CONDUCTOR SHALL BE THE ONLY COLOR TO BE

RE-IDENTIFIED. IF CONDUCTORS ARE RE-IDENTIFIED. IDENTIFICATION MUST BE APPLIED IN THREE INCH (3") IDENTIFICATION MUST BE AFFLED IN INTIRE FROM (5)
WRAPS, MINIMUM EVERY THREE FEET (3"-0")
RE-IDENTIFICATION SHALL BE USIBLE BY OPENING ANY
ENCLOSURE. WHITE GRAY AND GREEN CONDUCTORS SHALL NOT BE RE-IDENTIFIED.

10 RECTIFIERS 1, 2, 3 IN FIRST RUN OF CONDUIT, AND RECTIFIERS 4, 5, 6 IN OTHER RUN OF CONDUIT.

4. ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 120/240 VAC SERVICE

310-16 NATIONAL ELECTRICAL CODE 5. CONDUIT FILL BASED ON CHAPTER 9 - NATIONAL (FIELD INSTALLED BY SITE ELECTRICAL CODE. CONTRACTOR)

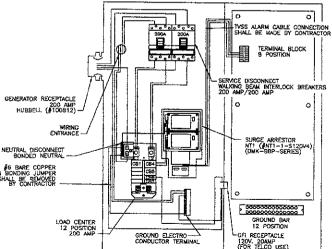
3/0 RED 4/0 GRN 4/0 WHT #4 GRN/YE SERVICE BOND #4 GRN REMOVABLE TAG I/G S/N SERVICE BOND #4 GRN/YEL REMOVABLE TAG HVAC #1(5) S + #6 RED (6) HVAC #2 s/n= [] s/n=[ (MO) FIKE PANEL (4) - (18) 12 RED 4 DUPLEX RECEPTACIES (18) S/N 8 + \$12 REL GFCI RECEPTACLE (19) SIN 12 BU

SNO DUPLEX RECEPTACLES (a) (35) RECTIFIER #2 EXT LIGHTS S /N (7) 8 RED #8 BLK #8\_RED ← 🍘 (35) RECTIFIER 👫 #8 BLK RECTIFIER #335 ← (35) RECTIFIER #6 #8 RED #8 RED RECTIFIER #5(35) #8 RED

. 27

SURGE

Га TERMINAL BLOCK 8 POSITION NEUTRAL DISCONNECT TELCO SURGE BONDED NEUTRAL PROTECTOR Ë #6 BARE COPPER
MAIN BONDING JUMPER
SHALL BE REMOVED
BY CONTRACTOR 0 GROUND BAR-12 GROUND ELECTRO TO GROUND RING IN PVC SLEEVE TO AC GROUND-



POSITION

TO GROUND RING IN PVC SLEEVE

ENGINEERING, INC 157 NORTH MAIN ST ELKHORN, NE 68022 PH. (402) 289~5040 FAX: (402) 289~5045 AEPC PROJECT #1607 I HORSEY CERTIFY THAT THES EIGHEEPING DOCU-MENT MAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERMISSION AND THAT I AM A DULC' LICENSED PROFESSIONE, ENGAGES UNDER THE LIA OF THE SIZE OF SOUTH DAKETS. 01/05/07 Tom Media Date to DER 31, 2006 ROFESSIO 8498 TOM Ö, MEDRE OUTH DAKE APPLICANT/OWNER SUITE 120

COMMUNICATIONS, INC. 18300 EAST 71ST AVENUE DENVER, CO 80249-7370

ASSOCIATED

DRAWN SY CHK BY APV BY

NK/DHF APPROVALS

ALLTEL PROJECT ENGINEER ALLIEL PROPERTY SPECIALIST

OWNER

ALLTEL SITE NAME

SDRC HWY 44

TALLTEL SITE NUMBER:

SUBMITTALS: REV

DATE

01/05/07 100% CONST DWGS DRAWING TITLE

0 11/20/06 90% CONST. DWGS ALLTEL STANDARD

**DETAILS** 

IDRAWING NUMBER

STD-1

PROJECT NUMBER:

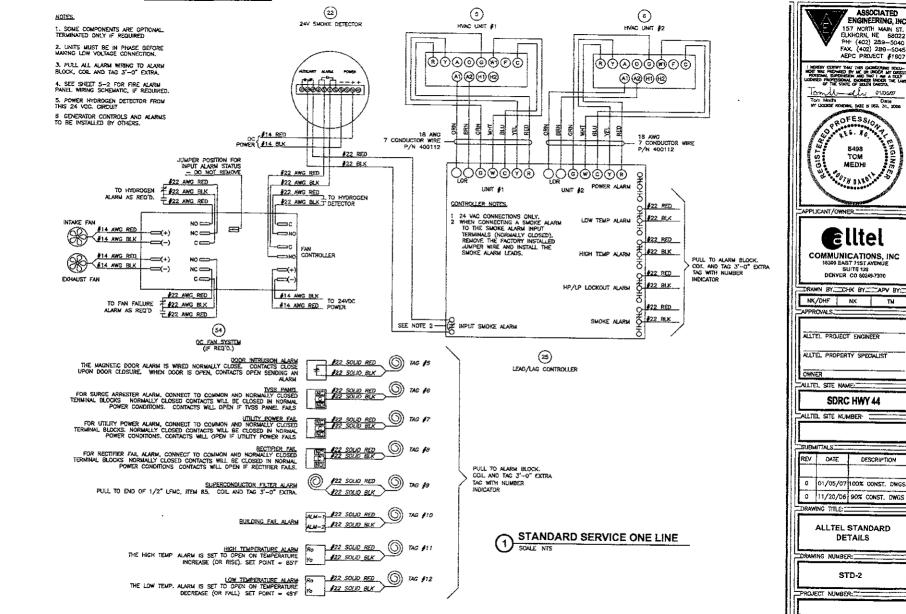
DESCRIPTION

STANDARD PPC CABINET ONE LINE DIAGRAM SCALE: NTS

#6 BARE COPPER
MAIN BONDING JUMPER
SHALL BE REMOVED
BY CONTRACTOR

[2]

STANDARD SERVICE ONE LINE



#### **ELECTRICAL NOTES**

#### GENERAL.

- A. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATING SYSTEM ENERGIZED THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFICD HEREIN AND/OR AS OTHERWISE REQUIRED.
- 8. CONTRACTOR IS TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT FOWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKING COSTS TO BE PAID BY CONTRACTOR
- C CONTRACTOR SHALL OBTAIN ALL NECESSARY BUILDING PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL REQUIRED FEES PURSUANT TO THE WORK.
- D ALL WORK SHALL BE IN STRUCT ACCORDANCE WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AND ANY APPLICABLE NATIONAL, STATE AND LOCAL CODES ALL COMPONENTS SHALL BE UIL APPROVED.
- E. CONTRACTOR SHALL BEFORE SUBMITTING HIS BID, VISIT THE SITE OF THE PROJECT AND BECCINE FAMILIAR WITH THE CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM
- F. EXACT LOCATION OF ALL EQUIPMENT SHALL BE COORDINATED WITH OWNER AND OTHER TRADES,
- G CONTRACTOR SHALL PROMOE ALL VERVICATION OBSERVATION TESTS AND EXAMINE ALL WORK PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION CONTRACTOR SHALL ISSUE A WRITTEN MOTICE OF ALL FINDINGS TO THE ACHITECT/ENGINEER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- H. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN SAFE CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURET THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT (SEE NOTE C FOR EXCEPTIONS) MATERIALS SHALL MEET WITH APPROVAL OF THE DMSIGN OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING UNRISHIGHTON MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANS, NEMA, NEFU AND 'UL" LISTED
- 1 WHERE EQUIPMENT IS SPECIFIED BY MANUFACTURER AND TYPE, SUBSTITUTION SHALL ONLY BY MADE WITH THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL SUBMIT DETAILS OF PROPOSED MATERIALS, REASON FOR CHANGE AND CHANGE IN CONTRACT MODURT.
- J. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY LABELED WITH ENGRADD PLASTIC LABELS FOR EACH PANEL BOARD, PULL BOX, J-BOX, SWITCH BOX, ETC. IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- $\ensuremath{\mathsf{K}}$  These plans are diagrammatic only and are to be followed as closely as possible.
- L. THE NEUTRAL IS TO BE GROUNDED AT THE METER MAIN PEDESTAL LOCATION ONLY. AT ALL CITHER POINTS IN THE DISTRIBUTION SYSTEM, IT IS TO REMAIN INSULATED FROM ALL CITHER GROUNDS UNLESS OTHERWISE INDICATED ON DRAWING.
- M. THE TEMPERATURE RATING ASSOCIATED WITH THE AMPACTLY OF A CONDUCTOR SHALL BE SO SELECTED AND COORDINATED AS TO NOT EXCEED THE LOWEST PEMPERATURE RATING OF ANY CONNECTED TERMINATION, CONDUCTOR, OR DEMCE, REFER TO TABLE A.
- N ALL ENCLOSURES CONTAINING THE SERVICE CONDUCTORS—SERVICE RACEWAY, CABLE ARMOR, BOXES, FITTINGS, CABINETS MUST BE EFFECTIVELY BONDED TOGETHER

## MATERIALS, ELECTRICAL WIRING AND RACEWAYS

- A ALL CIRCUIT BREAKERS, FUSES, CONDUCTORS AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT TO WHICH THEY MAY BE SUBJECTED AND A MINIMUM OF 10,000 AIC RATING UNLESS SPECIFIED OTHERWISES.
- 8. PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA "WPD 8" LIFT COVER PLATES.
- C METER SOCKET AMPERAGE, VOLTAGE AND NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWING AND MANUFACTURED BY SQUARE "D" COMPANY OR AN APPROVED EQUAL.
- D INSTALLATION OF RIGID METAL CONDUIT SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF ARTICLES 300 & 346-NEC SHALL BE U.L. APPRICES.
- E. INSTALLATION OF ELECTRICAL METALLIC TUBING (EMT) SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF ARTICLES 300 & 348-NEC SHALL BE U.L. APPROVED.
- F INSTALLATION OF INTERMEDIATE METAL CONDUIT (IMC) SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF ARTICLES 300 & 348—NEC SHALL BE U.L. APPROVED
- C. PLASTIC COMDUT SHALL BE SCHEDULE 40, HIGH IMPACT, POLYVINING CHLORIDE AND SHALL BE USED WITH UNTHERDED SOLVENT COMENT PLASTIC CONDUT FITTINGS COUPLINGS SHALL HAVE A CENTER STOP TO TYPE ENSURE PROPER SEATING CONDUT SHALL BE MANUFACTURED BY CARRON OR ACCEPTABLE EQUAL SHALL BE IN COMPILANCE WITH ART 300 & 347-NEC, UL APPROVED, 90 DEGREE BENDS AND ELBOWS INSTALLED UNDERGROUND TO BE RIGID GALVANIZED STEEL.
- H ALL WIRING OF ALL KINDS MUST BE INSTALLED IN CONDUIT, UNLESS OTHERWISE NOTED OR APPROVED BY THE ELECTRICAL ENGINEER
- 1. ALL WIRING SHALL BE COPPER TYPE TINNED AND IN ACCORDANCE WITH THE (NEC) NATIONAL ELECTRICAL CODE OR AS INDICATED ON PLANS
- J. RACEWAYS SHALL BE STEEL GALVANIZED, WITH SIZE AS SPECIFIED AND IN ACCORDANCE WITH THE (NEC) NATIONAL ELECTRICAL CODE UNLESS OTHERWISE NOTED ON PLANS. ALL RACEWAYS SHALL BE APPROVED PRIOR TO INSTALLATION.
- K. JUNCTION BOXES OR PULL BOXES SHALL MEET (NEC) NATIONAL ELECTRICAL CODE STANDARDS AND AS APPROVED FOR INSTALLATION OF RACEWAYS AND WIRING
- L THE RACEWAY AND WRING INSTALLATION SHALL BE GROUNDED PERMANENTLY AND EFFECTIVELY IN ACCORDANCE WITH ARTICLE 250 OF THE (NEC) NATIONAL ELECTRICAL CODE.
- M. THE CONTRACTOR SHALL BE AWARE THAT ALL STATE AND LOCAL CODES SHALL APPLY TO THIS INSTALLATION AND MUST BE ADHERED TO

#### SCOPE OF WORK

THE CONTRACTOR SHALL PROVIDE ALL ELECTRICAL WIRING AND EQUIPMENT UNLESS OTHERWISE INDICATED. MAIN COMPONENTS ARE AS FOLLOWS:

- A ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" OR "AS BUILT" DRAWINGS AT THE COMPLETION OF THE JOB SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS SHALL BE PROVIDED TO CLIENT, ALL BROCHURES, OPERATING MANUALS, CATALODS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO CLIENT AT JOB COMPLETION.
- B PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF ELECTRICAL WORK
- C. UPON COMPLETION OF WORK, CONDUIT CONTINUITY, SHORT CIRCUIT, AND GROUNDING TEST WILL BE MADE FOR APPROVAL SUBMIT TEST REPORTS TO CLIENT CLEAN PREMISES OF ALL DERNIS RESULTING FROM WORK AND LEWE IN A COMPLETE AND UNDAWAGED CONDITION.
- D. THE COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF SITE ACCEPTANCE BY CLIENT, MY WORK MATERAL OR EQUIPMENT FOUND TO SE FAULTY QUEING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WATTEN NOTIFICATION, AND AT THE EXPENSE OF THE CONTRACTOR.
- E. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ELECTRICAL EQUIPMENT PROVIDED BY CLIENT'S SUPPLIERS,

TERMINATIO	N RATING		R INSULATION ATING			
	60 DEGREES C	75 DEGREES C	90 DEGREES C			
60 DEGREES C	ск	OK AT 60 DEGREES C AMPACITY	OK AT 80 DEGREES C AMPACTLY			
75 DEGREES C	Na	ок	OK AT 75 DEGREES C AMPACITY			
50/75 DEGREES C	ок	OK AT 60 DEGREES C OR 75 DEGREES C AMPACITY	OK AT 60 DEGREES C OR 75 DEGREES C AMPACITY  OK ONLY IF EQUIP. HAS 9D DEGREES C RATING			
90 DEGREES C	NO	NO				



COMMUNICATIONS, INC
13306 EAST 71ST AVENUE
SUITE 120
DEWORK, CO 802-67-370

DRAWN BY: CHK BY APV BY:

NK

TM

APPLICANT/OWNER:

NK/OHF

APPROVALS:	
ALLTEL PROJECT	ENGINEER
	_
ALTEL PROPERTY	SPECIALIST

ALLTEL SITE NAME

OWNER

SUBMITTALS

SDRC HWY 44

ALLTEL SITE NUMBER

PREV DATE DESCRIPTION

0 01/05/07 100% CONST DWGS

0 11/20/06 90% CONST DWGS

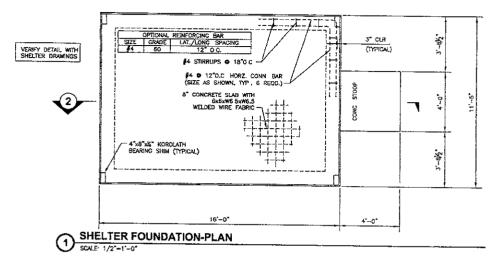
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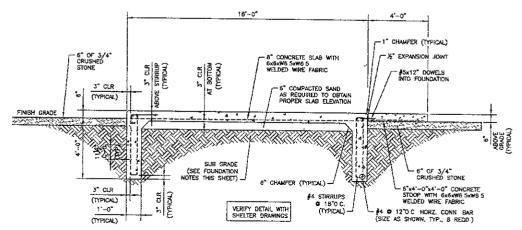
ALLTEL STANDARD DETAILS

STD-3

PROJECT NUMBER

DRAWING NUMBER-





#### SHELTER FOUNDATION-ELEVATION

SCALE: 1/2"=1'-0"

GENERAL:

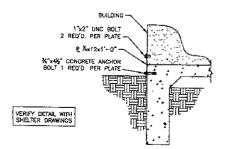
- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE MODEL CODE LATEST EDITION AS WELL AS LOCAL REGULATIONS
- 2. IF ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS AND OR CONDITIONS SPECIFIED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY WORK THAT WOULD BE AFFECTED
- 3 ALL REINFORCING BARS SHALL BE TIED WITH TIE WIRE AT ALL REINFORCING BAR INTERSECTIONS. THE CONTRACTOR SHALL SUPPORT THE REINFORCING BAR MAT WITH CONTINUOUS STEEL CHAIRS SPACED NO MORE THAN FOUR FEET OC

#### FOUNDATION NOTES:

- 1 THE CONTRACTOR SHALL EXCAVATE TO VIRGIN SOIL UNDER THE PROPOSED LOCATION OF THE NEW FOUNDATION.
- 2. ALL WATER SHALL BE REMOVED FROM THE BOTTOM OF THE EXCAVATION BEFORE COMPACTING FILL AND PLACING CONCRETE.
- 3 THE REINFORCED CONCRETE SLAB SHALL BE PLACED ON A 6 MIL THICK POLYETHYLENE VAPOR BARRIER OVER A LAYER OF SAND OR SUB-BASE AS RECOMMENDED BY GEOTECHICAL REPORT. ALL UNSUITABLE MATERIAL (BRICK FRAGMENTS, ASPHALT, CONCRETE BOULDERS, ETC.) WITHIN THE SLAB AREA AND EXCAVATION SHALL BE REMOVED FROM THE SITE.
- 4. THE CONTRACTOR SHALL EMPLOY ALL NECESSARY MEASURES TO SAFEGUARD THE STRUCTURAL INTEGRITY OF ADJACENT STRUCTURES DURING EXCAVATION AND CONSTRUCTION OF FOUNDATIONS
- 5. ADDITIONAL ENGINEERING REVIEW IS REQUIRED IF THE SHELTER FOUNDATION IS PLACED ON SOIL WITH A BEARING CAPACITY LESS THAN 2000 P.S.F.

#### CONCRETE NOTES:

- 1. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL SP-66 (LATEST REVISION).
- 2. CONCRETE CONSTRUCTION SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-02"
- 3 CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS
- 4. REINFORCING BARS SHALL BE GRADE 50 DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 USE CLASS B LAP SPLICES.
- 5. THE CONCRETE SLAB SHALL BE POURED LEVEL WITH A TOLERANCE OF 1/8" OVER 10' IN ALL DIRECTIONS



CONNECTION DETAIL

ASSOCIATED ENGINEERING, INC 157 NORTH MAIN ST ELKHORN, NE 68022 PH: (402) 289-5040 FAX (402) 289-5045 AEPC PROJECT #1507

I HOVERY CONTRY THAT THES DEMOCRACE COCU-IEMS THIS PROPAGED BY ME OF UNDER MY DIRECT PERSONAL SUPPRISON AND THE I AM A DULY CONSES PROPESSIONAL DECAMPS UNDER THE LAW OF THE STATE OF SOUTH OWNERS.

01/05/07 Tom Media MY LIGHTSE REMEMBLE DATE IS DEC. 31, 2006 POFESSIO TOM MEDH UTH DAYO

APPLICANT/OWNER:

COMMUNICATIONS, INC. 18300 EAST 71ST AVENUE

SUITE 120 DENVER, CO 80249-7370 DRAWN BY CHK BY APV BY

NK/OHF NX м APPROVALS.

ALLTEL PROJECT ENGINEER

ALLTEL PROPERTY SPECIALIST

OWNER ALLYEL SITE NAME:

SDRC HWY 44

ALLTEL SITE NUMBER:

SUBMITTALS"

DRAWING TITLE

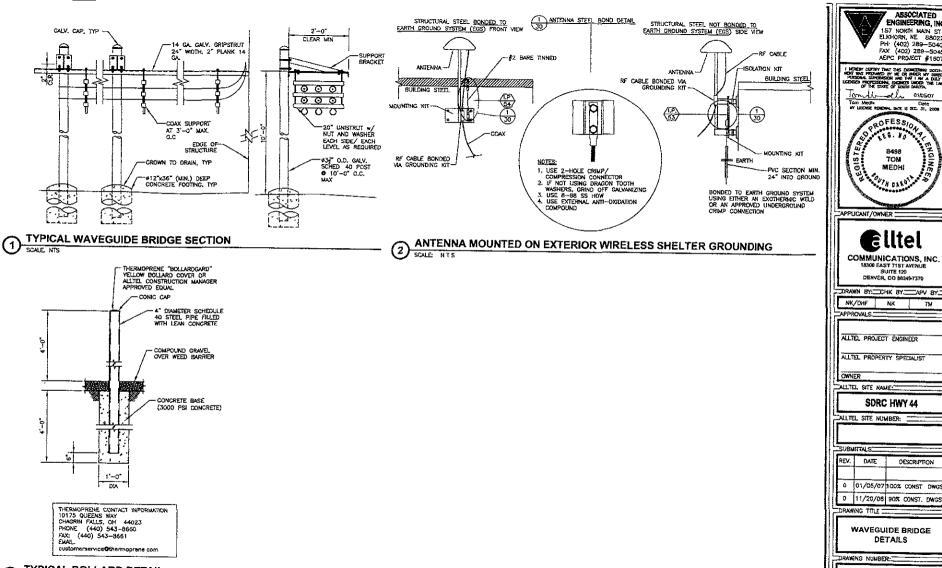
REV. DATE DESCRIPTION 0 01/05/07 HOOX CONST DWGS 11/20/06 90% CONST DWGS

> FOUNDATION PLAN AND DETAILS

> > S-1

DRAWING NUMBER:

PROJECT NUMBER:



TYPICAL BOLLARD DETAIL SCALE: N.T.S.

S-2

PROJECT NUMBER

ASSOCIATED. CAST IN PLACE CONCRETE 2.03 CURING COMPOUND FIELD WELDING SHALL BE DONE AS PER AWS D1 1 SURFACES THAT WILL BE PERMANENTLY EXPOSED SHALL ENGINEERING, INC. PRESENT A UNIFORM FINISH PROVIDED BY THE REMOVAL OF REQUIREMENTS, VISUAL INSPECTION IS ACCEPTABLE. ASTM C309, TYPE 1, CLASS B: TRANSLUCENT, FINS AND THE FILLING HOLES AND OTHER PREGULARITIES 157 NORTH MAIN ST WITH DRY PACK GROUT, OR BY SACKING WITH UTILITY OR 2.03 ROLDING ELKHORN, NE 68022 2.04 ACCESSORIES PART 1 - GENERAL PH: (402) 289-5040 A. BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A325. FAX. (402) 289-5045 A. NONSHRINK GROUT: PREMIXED COMPOUND CONSISTING C. SURFACES THAT WOULD NORMALLY BE LEVEL AND WHICH AND SHALL BE HOT-DIPPED GALVANIZED (UNLESS NOTED OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND 1.01 DESCRIPTION AEPC PROJECT #1607 WILL BE PERMANENTLY EXPOSED TO THE WEATHER SHALL RE OTHERWISE). NUTS SHALL BE HEAVY HEX TYPE (U.N.O.) PLASTICIZING AGENTS CAPABLE OF DEVELOPING MINIMUM SLOPED FOR DRAMAGE, UNLESS ENGINEER'S DESIGN I HOMBLY CONTRY THAT THIS EXPRESSION DOCU-HOLT SAS PROPARED BY HE OF UNDER SAY DIRECT PERSONAL SUPERSION AND THAT I AM A DOLY LICENSED PROFESSIONAL DIGHEST LINCOT THE CHAS OF THE STATE OF SOURT DANSON, COMPRESSIVE STRENGTH OF 7,000 PSI IN 28 DAYS. WORK INCLUDES CONSTRUCTION OF CAST-IN-PLACE DRAWING SPECIFIES A HORIZONTAL SURFACE OR SURFACES ALL BOLTS IN SUP CRITICAL CONNECTIONS SHALL BE SUCH AS STAIR TREADS, WALLS, CURBS, AND PARAPET WALL CONCRETE FOUNDATIONS, INCLUDING FURNISHING AND INSTALLED CONFORMING TO THE AISC METHOD. JOINT FILLERS BITUMENOUS TYPE: ASTM D1751 OR SHALL BE SLOPED APPROXIMATELY 1/4" PER FOOT INSTALLING READY-WIX CONCRETE, REINFORCING, FORM WORK, CONFORMING TO THE 1/4 TURN METHOD NON-BITUMINOUS TYPE, ASTM 01752. AND ACCESSORY MATERIALS AS SHOWN ON THE DRAWINGS. Tombo-elle 01/05/07 SURFACES THAT WILL BE COVERED BY BACKFILL OR CONCRETE 2 04 FABRICATION CAST-IN-PLACE CONCRETE INCLUDES ALL SITE CONCRETE, C. ANCHOR BOLTS: MATERIAL CONFORMING TO ASTM A307 Ton Marin SHALL BE SMOOTH SCREENED WY LICENSE REMEMBER DATE IS DET. 31, 2008 INCLUDING FOUNDATIONS, SLABS ON GRADE, EQUIPMENT HOT-DIPPED GALVANIZED, ASTM A153 A. FABRICATION OF STEEL SHALL CONFORM TO THE AISC AND PADS, AND POST FOUNDATIONS. AWS STANDARDS AND CODES ROFESSIO 2 05 CONCRETE MIX THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER 1 02 RELATED WORK A. CONCRETE SHALL BE PROPORTIONED FOR WORKABILITY EG. 10 IMMEDIATELY UPON REMOVAL OF THE FORMS TO OBSERVE MAXIMUM DENSITY, STRENGTH, AND DURABILITY REQUIREMENTS A. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE CONCRETE SURFACE CONDITIONS, IMPERFECTIONS SHALL BE IN ACCORDANCE WITH ACI 301. THE 28-DAY DESIGN A COORDINATE UNDER SLAB CONDUITS PATCHED ACCORDING TO THE CONSTRUCTION MANAGER'S 2408 COMPRESSIVE STRENGTH OF CONCRETE SHALL BE AS DIRECTION WITH ASTM-123 OR A-153. SPECIFIED ON THE DRAWINGS CONCRETE FURNISHED WAY BE TOM B COORDINATE WITH GROUNDING A COMMERCIAL READY-MIX PROVIDED THAT DELIVERY TO THE 5 MEDIU 3.06 DEFECTIVE CONCRETE UPON COMPLETION OF SERCTION, INSPECT ALL GALVANIZED PLACING LOCATION IS SATISFACTORILY ESTABLISHED AS STEEL AND PAINT ANY FIELD CUTS, WELD OR GALVANIZED 1.03 QUALITY ASSURANCE OCCURRING NOT LATER THAN 45 MINUTES AFTER ADDITION OF THE CONTRACTOR SHALL NOTIFY OR REPLACE CONCRETE NOT WATER TO THE MIX. SLUMP OF DELIVERED CONCRETE SHALL BREAKS WITH (2) COATS OF ZINC-RICH COLD GALVALUME CONFORMING TO REQUIRED LEVELS AND LINES, DETAILS AND NOT EYEFFD 5" ELEVATIONS AS SPECIFIED IN ACI 301. CONCRETE MATERIALS AND OPERATIONS SHALL BE TESTED AND INSPECTED BY A TESTING AGENCY OR AS DIRECTED BY 8. THE FOLLOWING DESIGN COMPRESSIVE STRENGTHS SHALL 3.07 PROTECTION THE CONSTRUCTION MANAGER BE USED (UNLESS NOTED OTHERWISE IN THE DRAWINGS) APPLICANT/OWNER: A. IMMEDIATELY AFTER PLACEMENT, THE CONTRACTOR SHALL 1.04 TESTS 1. FENCE POST FOUNDATIONS: 2,000 PSI AT 28 DAYS PROTECT THE CONCRETE FORM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL 2. EQUIPMENT FOUNDATIONS: 3,000 PSI AT 28 DAYS CONCRETE MATERIALS AND OPERATIONS SHALL BE TESTED AND INSPECTED BY THE ENGINEER OR QUALIFIED TESTING 3. ALL OTHER CONCRETE NOT SPECIFIED: 3,000 PSI AT 28 DAYS CONCRETE SHALL BE MAINTAINED WITH MINIMAL MOISTURE AGENCY AS THE WORK PROGRESSES FAILURE TO DETECT LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY 4. TOWER FOUNDATION CONFORM TO TOWER MFG.'S SPECIFICATIONS 18300 EAST 71ST AVENUE PREVENT LATER MATERIAL REJECTION WHEN SUCH DEFECT IS CONCRETE C. USE ACCELERATING ADMIXTURES IN COLD WEATHER ONLY SUITE 120 DISCOVERED NOR SHALL IT OBLIGATE THE ENGINEER FOR DENVER, CO 80249-7370 WHEN APPROVED BY THE ENGINEER. USE OF ADMIXTURES C. ALL CONCRETE SHALL BE WATER CURED BY CONTINUOUS FINAL ACCEPTANCE. WILL NOT RELAX COLD WEATHER PLACEMENT REQUIREMENTS. FINE MIST SPRAYING OR SPRINKLING ALL EXPOSED SURFACES DRAWN BY CHK BY APV BY WATER SHALL BE CLEAN AND FREE FROM ACID, ALKALI, SALTS. A. S CONCRETE TEST CYLINDERS SHALL BE TAKEN OF THE USE SET-RETARDING ADMIXTURES DURING HOT WEATHER OIL, SEDIMENT, OR ORGANIC MATTER. NK/DHF NK TOWER AND PIER FOUNDATION, 2 SHALL BE TEST AT 3 ONLY WHEN APPROVED BY THE ENGINEER DAYS, 2 AT 28 DAYS THE FIFTH CYLINDER SHALL BE KEPT STRUCTURAL STEEL APPROVALS: E. ADD AIR ENTRAINING AGENT TO CONCRETE MIX FOR SEPARATELY, FOR FUTURE TESTING IF REQUIRED. CONCRETE WORK SUBJECT TO OR EXPOSED TO EXTERIOR. B 1 ADDITIONAL TEST CYLINDER SHALL BE TAKEN DURING PART 3 - EXECUTION PART 1 - GENERAL ALLTEL PROJECT ENGINEER COLD WEATHER AND CLIRED ON SITE HADER SAME 3.01 INSPECTION CONDITIONS AS THE CONCRETE IT REPRESENTS 1.01 WORK INCLUDED ALLIEL PROPERTY SPECIALIST THE CONTRACTOR SHALL VERIFY ANCHORS, SEATS PART 2 - PRODUCT THE WORK CONSISTS OF THE FABRICATION AND PENETRATIONS, PLATES, REINFORCEMENT, AND OTHER ITEMS INSTALLATION OF ALL STRUCTURAL STEEL TO BE FLIRNISHED TO BE CAST INTO CONCRETE ARE ACCURATELY PLACED HELD OWNER 2.01 CONCRETE MATERIALS SECURELY, AND SHALL NOT CAUSE HARDSHIP IN PLACING 1 STEEL FRAMING INCLUDING COMPONENTS CONCRETE ALLTEL SITE NAME: CONCRETE SHALL BE COMPOSED OF PORTLAND CEMENT. WELDING AND BOLTING OF ATTACHMENTS. 3 02 PREPARATION WATER, FINE AND COARSE AGGREGATES, AND ADMIXTURES AS SDRC HWY 44 1 02 REFERENCE STANDARDS SPECIFIED BELOW ALL WELL MIXED AND BROUGHT TO A. THE CONTRACTOR SHALL PREPARE PREMIOUSLY PLACED CONCRETE (TO BE CAST AGAINST) BY CLEANING WITH STEEL PROPER CONSISTENCY. ALLTEL SITE NUMBER THE WORK SHALL CONFORM TO THE CODES AND BRUSH AND APPLYING BONDING AGENT APPLY BONDING STANDARDS OF THE FOLLOWING AGENCIES-AGENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS A. CEMENT: CEMENT SHALL BE TYPE 2, GRAY COLOR, LOW ALKALI PORTLAND CEMENT CONFORMING TO ASTM C150. 1. ASTM. AMERICAN SOCIETY FOR TESTING AND MATERIALS 3 03 PLACING CONCRETE 2. AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION. SUBMITTALS" B FINE AND COARSE AGGREGATES, AGGREGATES FOR USE A. CONCRETE SHALL NOT BE PLACED UNTIL ALL FORM WORK. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION EMBEDDED PARTS, STEEL REINFORCEMENT, FOUNDATION REV DATE IN CONCRETE SHALL COMPLY WITH ASTM C33. DESCRIPTION OF STRUCTURAL STEEL FOR BUILDINGS." SURFACES, AND JOINTS INVOLVED IN THE PLACING HAVE BEEN APPROVED, AND UNTIL FACILITIES ACCEPTABLE TO THE C. WATER: WATER FOR MIXING AND CURING CONCRETE 3 AWS. AMERICAN WELDING SOCIETY CONSTRUCTION MANAGER HAVE BEEN APPROVED AND MADE SHALL BE FREE FROM SEWAGE, OIL, ACID, ALKALI, AND SALTS 01/05/07/100% CONST DWGS READY FOR ACCOMPUSHMENT OF THE WORK AS SPECIFIED PART 2 - PRODUCTS CONCRETE MAY NOT BE ORDERED FOR PLACEMENT UNTIL ALL AND SHALL BE FREE FROM OBJECTIONABLE QUANTITIES OF ITEMS HAVE BEEN APPROVED AND CONSTRUCTION MANAGER 11/20/06 90% CONST DWGS SILT, AND OTHER DELETERIOUS SUBSTANCES 2.01 MATERIALS HAS PERFORMED A FINAL INSPECTION AND GIVEN APPROVAL DRAWING TITLE : TO START PLACEMENT 2.02 ADMIXTURES STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A36 EXCEPT STEEL PIPE WHICH B. PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH SHALL MEET THE REQUIREMENTS OF ASTM ASJ, GRADE B. A. AIR ENTRAINMENT. AIR ENTRAINING AGENT SHALL STRUCTURAL ACI 301 THIS SECTION DOES NOT GOVERN THE TOWER STEEL CONFORM TO ASTM C280 THE ADMIXTURE SHALL BE ADDED **SPECIFICATIONS** (PROPERTIES FOR TOWER STEEL TO BE DETERMINED BY C THE CONTRACTOR SHALL ENSURE THAT REINFORCEMENT. AS PART OF THE COMPUTED MIXING WATER REQUIREMENTS TOWER SUPPLIER) INSERTS, EMBEDDED PARTS, FORMED JOINTS, AND VAPOR AGENTS PREPARED IN SOLUTION SHALL BE MAINTAINED AT A BARRIERS ARE NOT DISTURBED DURING CONCRETE PLACEMENT. DRAWING NUMBER UNIFORM STRENGTH AND SHALL BE BATCHED BY MEANS OF 2.02 WELDING RELIABLE MECHANICAL DISPENSERS. 3.04 SURFACE FINISHES A. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS SP-1 SURFACES AGAINST WHICH BACK FILL OR CONCRETE SHALL CERTIFICATION DOCUMENTS SHALL BE MADE AVAILABLE UPON B. CHEMICAL ADMIXTURES ASTM 494, TYPE A WATER BE PLACED REQUIRE NO TREATMENT EXCEPT REPAIR OF REDUCING AND RETARDING PROJECT NUMBER: 8. WELDING ELECTRODES SHALL BE E70 SERIES