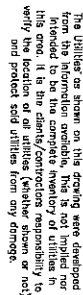
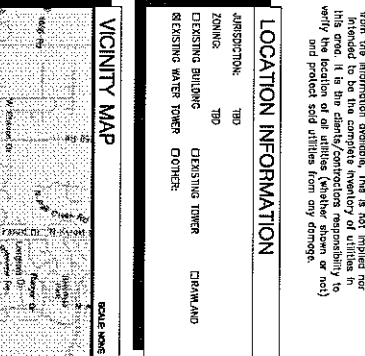
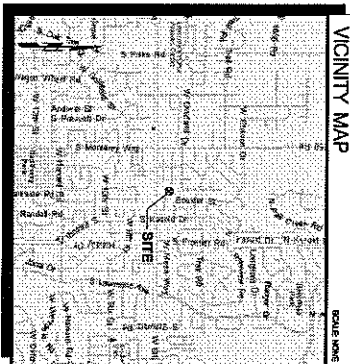


SYMBOLS AND MATERIALS	
	NET PATTERN
	DRAFTING AIRFRAME
	ASPHALT
	CONCRETE
	CERAMIC TILES
	ELECTRIC BOX
	GYPSUM PLANK
	INSULATION
	NON-COMBUSTIBLE
	SPOT ELEVATION
	ARROWS
	SLOPE PERCENTAGE
	DETAIL REFERENCE
	ELEVATION
	SECTION
	STAIRS
	DETAILS



LOCATION INFORMATION			
ABSORPTION:	TBD		
ZONING:	TBD		
EXISTING BUILDING		EXISTING TOWER	CRAWLAND
EXISTING WATER TOWER		OTHER:	

[illegible]

KS5152
3708 W. 6TH STREET
LAWRENCE, KS. 66044
DOUGLAS COUNTY
S/H PROJECT # 808648-2

PROJECT SUMMARY	
SITE ID:	KCS02
SITE NAME:	KASLO
SITE ADDRESS:	3216 W 8TH STREET LAMBERT, KS 66044
CURRENT ZONING:	TBD
PARCEL NUMBER:	TBD
TOWN OWNER:	CITY OF LAMBERT
TOWN CONTACT:	TBD
APPLICANT:	PROPOSED 1400 W. LAMBERT RD RD 3216 100 DES PERES, MO 63021 (913) 361-4381 SHIRLEY-LETTY 3202 HIGHLAND PARKWAY DUNNONS GROVE, IL 60115 (630) 390-7444 EXT. 310 JAMES DOWNEY
A/E FIRM:	

COORDINATES	RFDS ISSUE
LATITUDE: N38° 56' 21.18" LONGITUDE: W95° 17' 02.47" ELEVATION AT GRADE: 1029	PHASE: II ISSUE REVISION: 3.7 ISSUE DATE: 03/27/2008

APPROVALS	
DATE	DIRECTOR APPROVAL
DATE	BY ENGINEER
DATE	FULL EXAMINEE
DATE	CERTIFICATION NUMBER

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

SHEET INDEX		SHEET NO.	DESCRIPTION	REV. NO.
A-1	TITLE SHEET	3		
A-1	COMPOUND PLAN & ELEVATION	3		
A-2	EQUIPMENT LAYOUT	3		
A-3	ALPHA & BETA SECTOR	3		
A-4	GAMMA SECTOR & ANTENNA PLAN	3		
A-5	ANTENNA TOWER	3		
A-6	COAX CABLES	3		
A-7	BET SEPARATE	3		
A-8	COAX BOUNDING	3		
A-9	LANDSCAPE DETAILS	3		

[illegible]

NOTE:
FOR ACCESS TO THE WATER TOWER
UTILITY SHALL FIRST SIGN IN AT KAW
WATER TREATMENT PLANT. ACCESS TO
THE TOWER SHALL REQUIRE
COORDINATION WITH THE PLANT
OPERATOR FOR GATE KEYS.

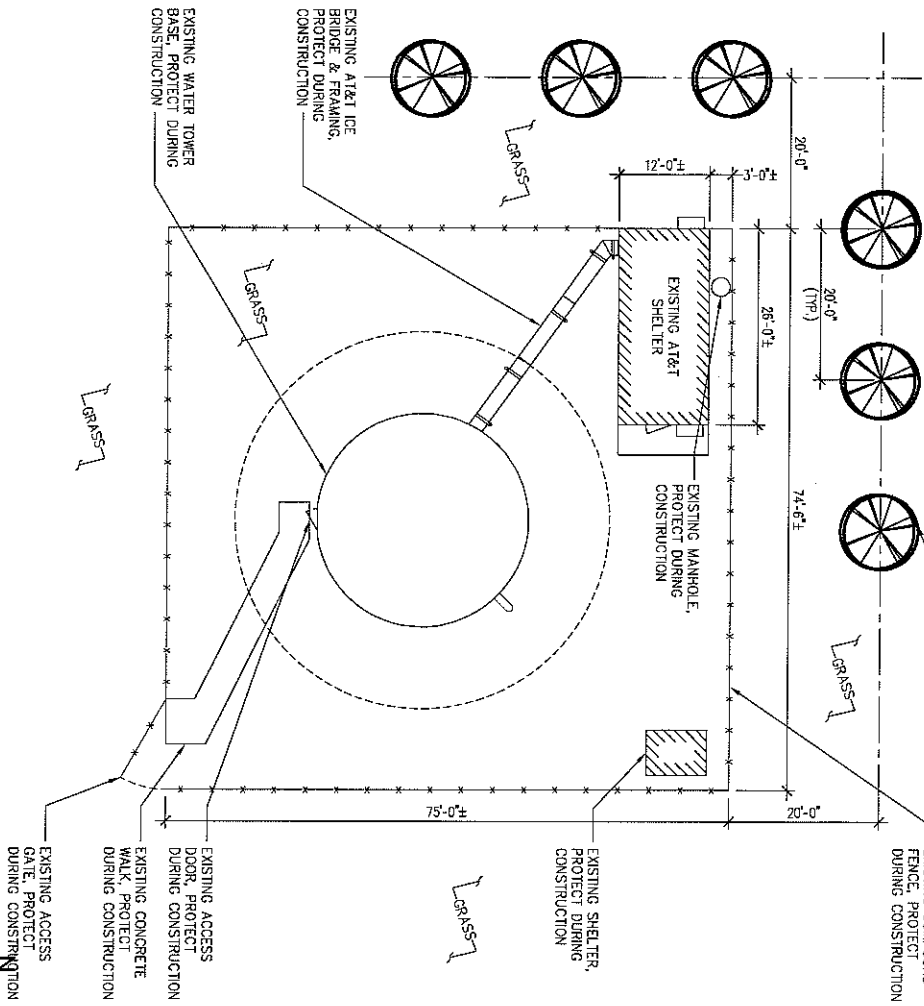
T-1	UNITED STATES GOVERNMENT	TITLE SHEET	DRAWING NO. SHEET NO. DATE BY CHECKED BY APPROVED BY SCALE NOTES	KASOLD KS5162 RONALD E. KASOLD MANUFACTURING ENGINEER DESIGN & DRAWING DEPARTMENT GENERAL WATKINS DIVISION	 It's just good business. 13075 MANCHESTER ROAD DES PERES, MISSOURI 63131	 SHIVE HATTERY Deer Field, IA • Iowa City, IA • Des Moines, IA Moline, IL • Bloomington, IL • Chicago, IL Chattanooga, TN • St. Louis, MO SHIVE-HATTERY, INC. 3025 HOLBORN PARKWAY KENNERSHAW GROVE, ILLINOIS 60139 PHONE (312) 380-1444 FAX (312) 435-0800	 at&t 13075 MANCHESTER ROAD DES PERES, MISSOURI 63131 PHONE: 314-835-9999 FAX: 314-835-2586

GENERAL NOTES:

NSRO-01-NO-01-001

1. ELEVATION IS FOR REFERENCE PURPOSE ONLY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
2. CONTRACTOR SHALL PERFORM WORK DONE TO OR ON EXISTING STRUCTURE IN ACCORDANCE WITH AT&T PROVIDED STRUCTURAL ANALYSIS, SEPARATE FROM SHIVE-HATTERY ENGINEERED DOCUMENTS.
3. CONTRACTOR SHALL REPLACE ANY ITEMS DAMAGED DURING CONSTRUCTION w/ SIMILAR MATERIALS.

NOTE:
FOR ACCESS TO THE WATER TOWER UTILITY SHALL FIRST SIGN IN AT KAY WATER TREATMENT PLANT. ACCESS TO THE TOWER SHALL REQUIRE COORDINATION WITH THE PLANT OPERATOR FOR GATE KEYS.



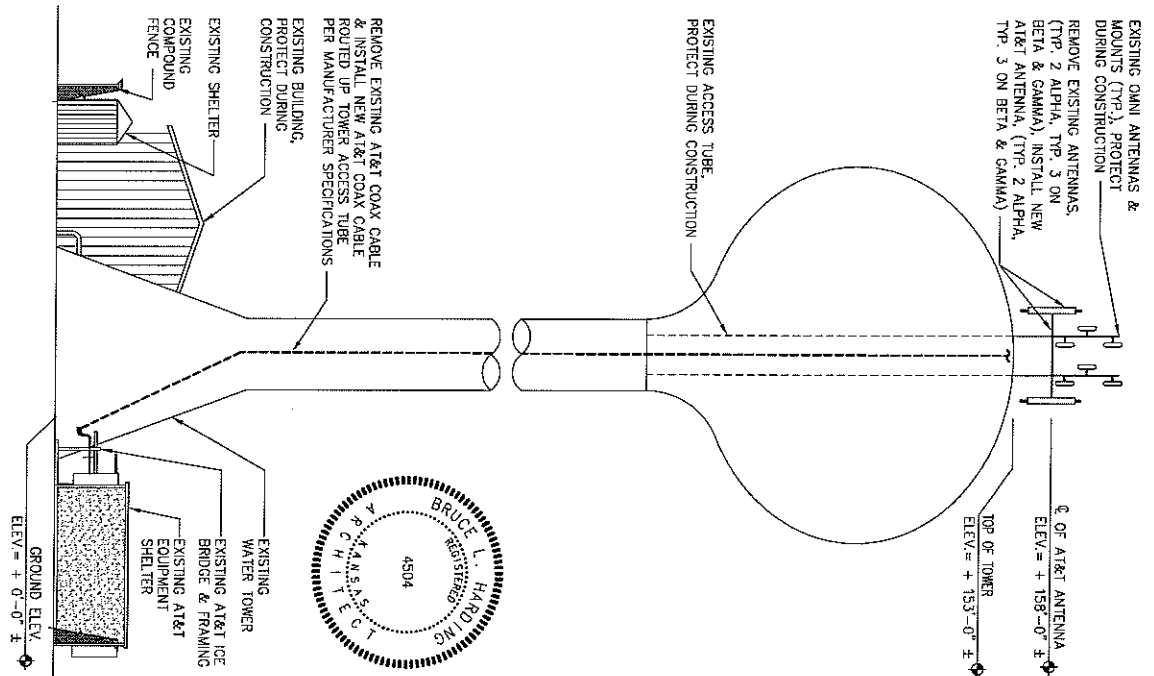
1 COMPOUND PLAN

SCALE 1/8"=1'-0"



2 ELEVATION

SCALE 1/8"=1'-0"



A-1

COMPUND PLAN & ELEVATION

KS1012

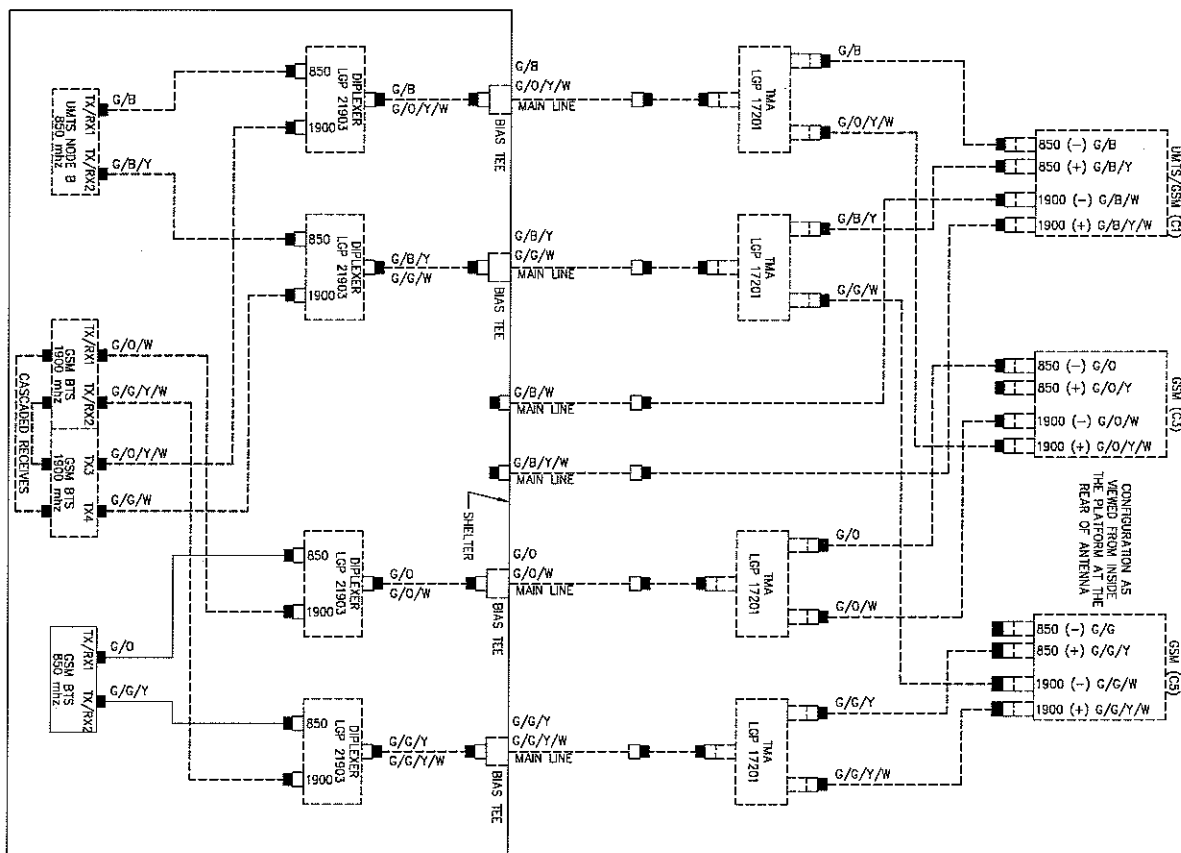
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PHONE 800-555-5555 FAX 314-835-2586

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Moline, IL • Bloomington, IL • Chicago, IL
Omaha, NE • St. Louis, MO
SHIVE-HATTERY, INC. 3025 HIGHLAND PARKWAY DOWNERS
GRAND, ILLINOIS 60130
PHONE 800-555-5555 FAX 800-427-0800

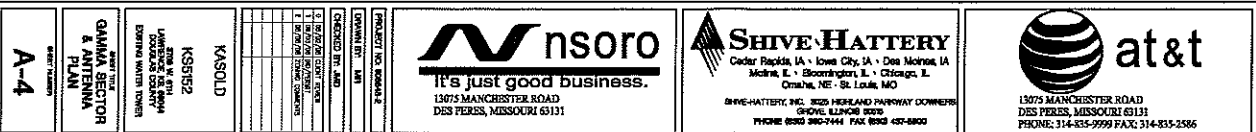
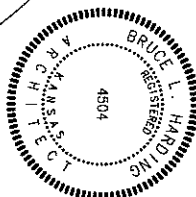
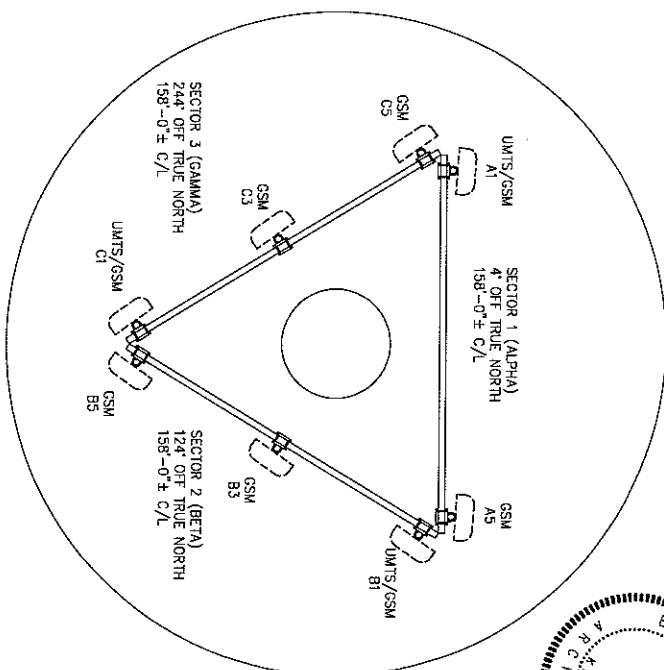
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NSRO-01-AN-08-001A-KC



NSK0-U1-AN-U3-U0

NOTE: VERIFY INFORMATION W/ FINAL RF REPORT

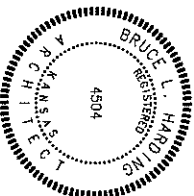


ANTENNA TABLE

ANTENNA NUMBER	POLARITY	FREQ.	TOP & BOT. JUMPER COLOR CODE	MAIN COAX COLOR CODE		ANTENNA MODEL	ANTENNA VENDOR	AZIMUTH	MECH. DOWN TILT	ELEC. DOWN TILT	ANTENNA CENTERLINE FROM GRND	COAXIAL FEEDER	
												SIZE	FEEDS ACTUAL LENGTH
UMTS/GSM A1	-45	1900	R B W	R B	R B W	800 10122	KATHREIN	4°	0°	850 0°	158'-0"	1 5/8" FOAM	250'-0"
	-45	850	R B W	R B	R B W								
	+45	1900	R B Y W	R B Y	R B Y W								
	+45	850	R B Y	R B Y	R B Y W								
GSM A5	-45	1900	R G W	R G	R G W	800 10122	KATHREIN	4°	0°	850 0°	158'-0"	1 5/8" FOAM	250'-0"
	-45	850	R G	R G	R G W								
	+45	1900	R G Y W	R G Y	R G Y W								
	+45	850	R G Y	R G Y	R G Y W								
UMTS/GSM B1	-45	1900	B B W	B B	B B W	800 10122	KATHREIN	124°	0°	850 0°	158'-0"	1 5/8" FOAM	250'-0"
	-45	850	B B	B B	B B W								
	+45	1900	B B Y W	B B Y	B B Y W								
	+45	850	B B Y	B B Y	B B Y W								
GSM B5	-45	1900	B O W	B O	B O W	800 10122	KATHREIN	124°	0°	850 0°	158'-0"	1 5/8" FOAM	250'-0"
	-45	850	B O	B O	B O W								
	+45	1900	B O Y W	B O Y	B O Y W								
	+45	850	B O Y	B O Y	B O Y W								
GSM B5	-45	1900	B G W	B B Y	B G W	800 10122	KATHREIN	124°	0°	850 0°	158'-0"	1 5/8" FOAM	250'-0"
	-45	850	B G	B G Y	B G Y W								
	+45	1900	B G Y W	B G Y	B G Y W								
	+45	850	B G Y	B G Y	B G Y W								
UMTS/GSM C1	-45	1900	G B W	G B	G B W	800 10122	KATHREIN	244°	0°	850 0°	158'-0"	1 5/8" FOAM	250'-0"
	-45	850	G B	G B Y	G B Y W								
	+45	1900	G B Y W	G B Y	G B Y W								
	+45	850	G B Y	G B Y	G B Y W								
GSM C3	-45	1900	G O W	G O	G O W	800 10122	KATHREIN	244°	0°	850 0°	158'-0"	1 5/8" FOAM	250'-0"
	-45	850	G O	G O	G O W								
	+45	1900	G O Y W	G B	G O Y W								
	+45	850	G O Y		G O Y W								
GSM C5	-45	1900	G G W	G B Y	G G W	800 10122	KATHREIN	244°	0°	850 0°	158'-0"	1 5/8" FOAM	250'-0"
	-45	850	G G	G G Y	G G Y W								
	+45	1900	G G Y W	G G Y	G G Y W								
	+45	850	G G Y	G G Y	G G Y W								

CONTRACTOR TO VERIFY INFORMATION W/ FINAL RF REPORT.

TMA VENDOR/MODEL (12 TOTAL)	LCF 17201
DUPLEXER VENDOR/MODEL (12 TOTAL)	LCF 21903



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GRAND BLANCHE, WI 53005
PHONE (800) 260-7444 FAX (800) 451-8800

at&t
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DES PERES, MISSOURI 63131
PHONE: 314-835-9999 FAX: 314-835-2586

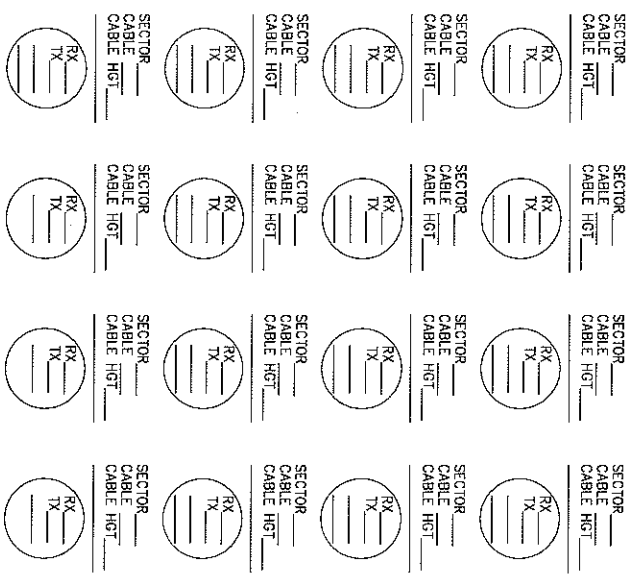
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CHECKED BY: JMD
DATE: 10/10/01
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5. 10/10/01
6. 10/10/01
7. 10/10/01
8. 10/10/01
9. 10/10/01
10. 10/10/01
11. 10/10/01
12. 10/10/01

KASOLD
KSS562
DESIGNER: JMD
DRAWN BY: JMD
CHECKED BY: JMD
DATE: 10/10/01

ANTENNA TABLE
A-5

CABLE PORT DIAGRAM

CAUTION: HARMFUL RF ENERGY EXISTS ON THESE LINES



1. CONTRACTOR SHALL FILL OUT THE CABLE PORT DIAGRAM UPON COAX INSTALLATION. CABLE PORT DIAGRAM WILL BE AFFIXED TO THE INTERIOR SHELTER WALL NEAR THE CABLE ENTRY PORT TO AID IN CABLE IDENTIFICATION. THE CHART IS INTENDED TO BE USED TO RECORD THE LINE AND CORRESPONDING ANTENNA POSITION ON THE TOWER AT THE TIME OF INSTALLATION.
2. ONE COMPLETE COPY PLUS TWO BLANK COPIES OF THE CHART SHOULD BE POSTED IN THE SHELTER IN A PROTECTIVE PLASTIC SLEEVE.

CABLE MARKING LOCATIONS TABLE

NO.	TAPE	TAG	LOCATIONS
1.	*		EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" SIDE BANDS
2.	*		EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS JUST PRIOR TO ENTERING THE BTS OR SHELTER
3.	*		CABLE ENTRY PORT ON THE EXTERIOR OF THE SHELTER
4.	*		MAIN COAX AT CABLE ENTRY PORT ON THE INTERIOR OF THE SHELTER
5.	*		BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPERS
6.	*	*	BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPERS

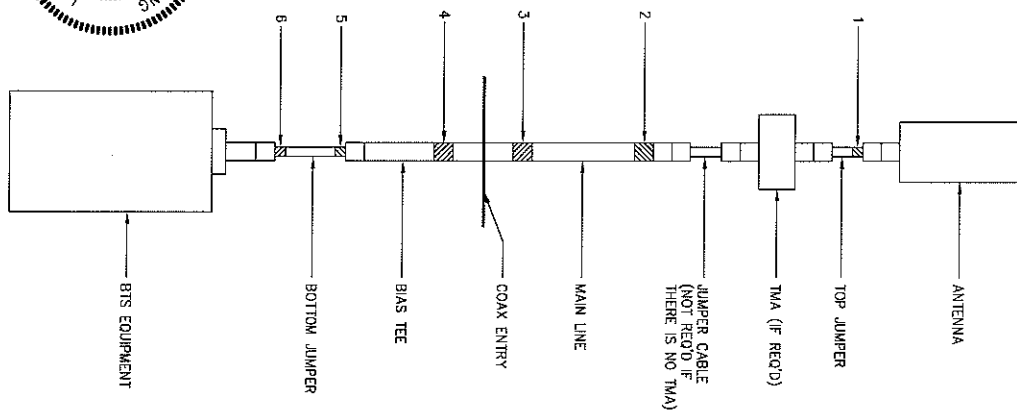
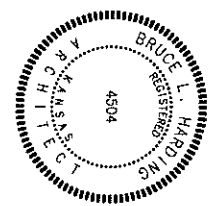
(* - DENOTES TAG OR TAPE)

COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE INSTALLED USING A MINIMUM OF (3) WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING. ALLOW 3/4" SPACING BETWEEN BANDING.

GSM LINE TAG



TO PROVIDE ADDITIONAL IDENTIFICATION RF CABLES SHALL BE IDENTIFIED WITH A METAL TAG MADE OF STAINLESS STEEL OR BRASS AND STAMPED WITH THE SECTOR, ANTENNA POSITION, AND CABLE NUMBER. THE ID MAKING LOCATIONS SHOULD BE AS PER "CABLE MARKING LOCATIONS TABLE". THE TAG SHOULD BE ATTACHED WITH CORROSION PROOF WIRE AROUND THE CABLE. THE TAG SHOULD BE LABELED AS SHOWN ON THE "GSM LINE TAG" DETAIL.



BTS EQUIPMENT

BOTTOM JUMPER

BIAS TEE

COAX ENTRY

MAIN LINE

JUMPER CABLE (NOT REQ'D IF THERE IS NO TMA)

TMA (IF REQ'D)

TOP JUMPER

ANTENNA

NSRO-01-CX-06-001

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13075 MANCHESTER ROAD
DES PERES, MISSOURI 63131
PHONE: 314-835-9999 FAX: 314-835-2586

KASOLD
KST52
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DES PERES, MISSOURI 63131
OFFICE WITH TOWNS

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A-6