LN- 002330 -2018

CITY OF DEER PARK

Specific Use Permit



PERMIT #:

LN-002330-2018

PROJECT:

ISSUED DATE:

EXPIRATION DATE:

PROJECT ADDRESS:

6911 1/2 SH 225 W

OWNER NAME:

Agua Solutions

CONTRACTOR:

AT&T

ADDRESS:

6915 Highway 225

ADDRESS:

6911 1/2 Hwy 225

CITY:

Deer Park

CITY:

DEER PARK

STATE:

TX

STATE:

TX

ZIP:

77536

ZIP:

77536

PHONE:

PROJECT DETAILS

PROPOSED USE:

...

SQ FT:

0

DESCRIPTION:

Specific Use Permit For A Cell Tower

VALUATION:

\$ 0.00

PERMIT FEES

TOTAL FEES:

\$ 1,000.00

PAID:

\$ 1,000.00

BALANCE:

\$ 0.00

ALL PERMITS MUST BE POSTED ON THE JOBSITE AND VISIBLE FROM THE STREET

NOTICE

THIS PERMIT BECOMES NULL AND VOID IF WORK OR CONSTRUCTION AUTHORIZED IS NOT COMMENCED WITHIN 6 MONTHS, OR IF CONSTRUCTION OR WORK IS SUSPENDED OR ABANDONED FOR A PERIOD OF 1 YEAR AT ANY TIME AFTER WORK IS STARTED. ALL PERMITS ARE SUBJECT TO THE FOLLOWING:

- ALL WORK MUST COMPLY WITH THE BUILDING , ELECTRICAL, PLUMBING , AND MECHANICAL CODES ADOPTED BY THE CITY OF DEER PARK AT THE TIME THE PERMIT IS ISSUED .
- IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO COMPLY WITH ALL STATE & FEDERAL DISABILITY REQUIREMENTS.
- ENCROACHMENTS OF EASEMENTS AND RIGHT-OF-WAYS ARE NOT ALLOWED.

I HEREBY CERTIFY THAT I HAVE READ AND EXAMINED THIS DOCUMENT AND KNOW THE SAME TO BE TRUE AND CORRECT. ALL PROVISIONS OF LAWS AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL BE COMPLIED WITH WHETHER SPECIFIED HEREIN OR NOT. GRANTING OF A PERMIT DOES NOT PRESUME TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISION OF ANY OTHER STATE OR LOCAL LAW REGULATING CONSTRUCTION OR THE PERFORMANCE OF CONSTRUCTION.

SIGNATURE OF CONTRACTOR OR AUTHORIZED AGENT

APPROVED BY

DATE

DATE

TO SCHEDULE NEXT DAY INSPECTIONS CALL BY 4PM 281-478-7270 ALL REINSPECTIONS ARE SUBJECT TO A \$45.00 REINSPECTION FEE

You can request a morning or afternoon inspection and we will do our best to accommodate you but there are no guarantees, it will depend on the volume of inspections scheduled that day.





November 5, 2018

Deer Park City Council Larry Brotherton/Chief Building Official 710 E. San Augustine Deer Park, Texas 77536

RE: Specific Use Permit

Dear Deer Park City Council,

AT&T is proposing a new constructed 180' Self Support telecommunications tower located at 6911 HWY 225 in Deer Park, Texas. The legal description is Tract 10C-2, Abstract 646, George Ross Survey in Harris County. This site would replace the existing cell site that we are collocated on .26 miles to the south east. The fees, costs, and contractual provisions required by the tower owner for us to remain collocating on the existing structure are unreasonable. AT&T needs to reduce our monthly rent expenditures at this location, thus a relocation is the most appropriate cost-effective move.

In compliance with the city's zoning use of the proposed location AT&T is in the area that is zoned for light industrial and refinery. AT&T has been granted a letter from the landlord for permission to build a tower on the land. AT&T has also obtained an executed Option and Land Lease, that grants AT&T (tenant) approximately 3,600 sq. ft of the leased site.

For AT&T to continue to provide continued coverage to our subscribers and constituents in this area AT&T has provided this information with the full intent of meeting the spirit and letter of the code for which this application is being submitted. AT&T is supplying all relevant information for this project to be reviewed by the City of Deer Park.

Thank you,

JoyLee Owings

Sr Real Estate & Construction Mgr

AT&T Site Number HX0713, FA 14520886



AQUA SOLUTIONS, INC.

P.O. Box 70. Deer Park, TX 77536. Ph(800)256-2586 Fax(281)479-2790 Visit our website at www.aquasolutions.org

DATE 10/08/18

TOTAL PAGES:

1

TO:

City of Deer Park-City Council

FROM: Chris Bedford

Aqua Solutions, Inc. PH: 281-479-2569

RE: Specific Use Permit

Q Ref- &

Mastec and New Cingular Wireless have my permission to request a Specific Use Permit for 3,600 square feet on George Ross Survey, A-646 of Harris County, Texas

Thanks,

Chris Bedford



2018 NSB PTN: 3063A0G20

PROJECT INFORMATION

SITE NAME: ATC GS (SE HOUSE RELO

SITE NAMES: 1 APT 25.56

LATTLUSE: 25.708687 (35 05 54.54*)

LONGITUDE: -95.088487 (35 05 54.54*)

LONGITUDE: -95.088487 (35 05 54.54*)

LONGITUDE: 105.08487 (35 05 54.54*)

STRUCTURE TYPELSEJ SUPPORT TOWER

SITE NAME:

	713-1-1	TOC) <u>C</u>		ما جا		Z → ~		90	-4 tm			> 1 >-	+	+				\$3	<u>∓</u> ∂	13P	R	윤	\dashv	06	•		_		
POWER COMPANY; ORANGE & ROCKLAND UTILITIES PHONE: 1-877-434-4100	TELEPHONE COMPANY: ATAT PHONE: 1-800-288-2020	LPYEL 5 COMSULTING ENGINEERS 19315 FM 2252; SUITE 301 6ARDEN REDGE, TX 78256 CONVACT; BAYD HILDEBRANDT PHONE: 2:10-542-5911	ARCHITECT/ENGINEER:	SW RESIDENT CONSTRUCTION PROJECT MANAGER PHONE: 817-690-7442 EMAIL: gyoung@tilmaninfrastructure.com	CONSULTANT: ANSEL YOUNG SHERON CONSULTANT:		TILLMAN INFRASTRUCTURE 152 W 57TH ST, 8TH FL NEW YORK, NY 10019	TOWER OWNER:	6913 HIGHWAY 225 DEER PARK, TX 77536	PROPERTY OWNER:		1801 VALLEY VIEW LANE FARMERS BRANCH, TX 75234	APPLICANT:	CONTACTO	CONTACTS				SOUTAGE RD TO YOUR DESTINATION SMIN (DISM).	MIN (13.9M), CONTINUE ON PASADENA FREEWAY	BLVO SMIN (1.9MI). TAKE TX-225 E TO PASADENA FREEWAY FRONTAGE RD IN DEER PARK, TAKE THE EXIT TOWARD MITERIALE SAFEWAY FROM TX-225 F	T ON 1-45 N FROM AIRPORT BLVD AND MONROE	DEPART GRUPO TAMPICO INTERNATIONAL:	DRIVING DIRECTIONS	063A0G201	•				
	AND ALTONE PAYING PRICES APPROVE AND ACCEPT HESE OCCAMANIA AND AUTHORIZE CONTRICTION TO PROCEED WITH THE CONSTRUCTION OF EXAMINED TO RANGE OF THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS. SITE ACCESS PROCEDURES	PROPERTY OWNER CONTRACTOR CO	CONSTRUCTION MANAGER	A CONTRACTOR OF THE CONTRACTOR	AT&T OPERATIONS	AT&T CONSTRUCTION MANAGER	AT&T RF ENGINEERING	AIRI REAL ESIAIG		AFFROVALS		The second secon		Aguardanas Q	-131			.60		SITE		jate		VICINITY MAP	THESE DRAWINGS ARE GENERAL CONTRACTOR OF THE REPOS WITH TO	ָרָ לְּלֶלֶדָּיִ	BA CODE:	OTOLIOTIBE TYPE:	SITE NAME:	
	SEA BY THE	(A) (L			DATE	DATE	DATE	<u>}</u>			S A) NI»	A Control of the Cont			÷	>	T 1		COCCUS TOWNS INC PALENNAJICITAL	43	₹ -	S		BASED ON RFI TO VERIFY ANI	1000	1/15/0886		AIC C	, ,
		WIED.	ELCINICAL SPECIFICATIONS ORDERING SOLICE AGE FOR 2017AL SHEETS HIM ESS OTHERWISE HOLD TO SHEET SHEET SHEETS HIM ESS OTHERWISE HOLD TO SHEET SHE	Ħ	E2.1 COMPOUND GROUNDING PLAN E2.1 COMPOUND GROUNDING PLAN	ELECTRICAL AND TELCO PLAN	A3.6 EQUIPMENT DETAILS ELECTRICAL PLANS		A3.3 EQUIPMENT DETAILS		T	A2.4 PLUMBING DIAGRAM A3.0 SITE DETAILS	A2.3 ANTENNA CONFIGURATION (SECTOR C)		AZ.1 ANTENNA CONFIGURATION (SECTOR A)	1_	T	SITE SURVEY (BY OTHERS)	EG	1	N1.0 GENERAL NOTES		SITE GENERAL ARRANGEMENT PLANS	SHEET INDEX	THESE DRAWINGS ARE BASED ON REDS VERSION VI.O. DATE UPDATED 978/2018 GENERAL CONTRACTOR TO VERIFY AND INCORPORATE MOST RECENT VERSION OF THE REDS WITH TILLMAN INFRASTRUCTURE PRIOR TO CONSTRUCTION.	C	3000 000 000 000 000 000 000 000 000 00	SELE STEROOT TOWER	ATC GSTCE HOUSE RELO)
T1.0	COVER SHEET	2 NEW 1070S WS 11/07/18	O ISSUED FOR CONSTRUCTION IL 04/23/18 1 NEW REES IL 03/14/18		APPROVED BY: TH	F-13646	CONSULTING EXCINEUS, INC.		1/0/19 1/0/19	`		106713 R	DAVIO J. HILDEBRANDT	****	.~			6911 HWY 225	HX0713 (HX0549)		_	ATC GS ICE	<u> </u>		INFRASTRUCTURE		1801 VALLEY VIEW LANE FARMERS BRANCH, TX 75234	AT&T MOBILITY) at&t) and a second

- INTERNATIONAL BUILDING CODE, 2012 EDITION AS ADOPTED BY LOCAL JURSCIPCTION.

- MATCHAUTE ELECTRICAL CODE, 2017 EDITION AS ADOPTED BY LOCAL JURSCIPTION.

- INTERNATIONAL MECHANICAL CODE, 2012 EDITION AS ADOPTED BY LOCAL JURSCIPTION.

- INTERNATIONAL MECHANICAL CODE, 2012 EDITION AS ADOPTED BY LOCAL JURSCIPCTION.

Know what's below.

Call before you dig.

APPLICABLE CODES & STANDARDS

LINE AT	其《4등록 경비에 등 제 = 제반병원 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등
AND SYMBOL LEGEND CHASC-LIM TRACE BRUNDARY WOOD FINCE BRUNDARY WOOD FINCE BRUNDARY LONGERGANIO TLEFFONE COMPAN CHOCKET TO THE CHANGE COMPAN THEO WERE PARE CALE GROUND PRINT OF EXPERT ACTURE GROUND PRINT LEGEND GROUND PRINT LEGEND GROUND PRINT LEGEND GROUND PRINT LEGEND CHANGE GROUND PRINT LEGEND THE CHANGE GROUND PRINT LEGEND WITH THE CHANGE WITH THE CHANGE GROUND PRINT LEGEND WITH THE CHANGE WITH THE CHANGE WITH THE CHANGE GROUND PRINT LEGEND WITH THE CHANGE WITH THE CHANGE GROUND PRINT LEGEND WITH THE CHANGE WITH THE CHANGE WITH THE CHANGE GROUND PRINT LEGEND WITH THE CHANGE WITH THE CHANGE GROUND PRINT LEGEND WITH THE CHANGE WITH THE CHANG	REVIATIONS REGISTRATES AND REG
11 11 15 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	THE PROPERTY OF THE PROPERTY O

URPOSE AND INTENT: ENERAL REQUIREMENTS:

- HE DAMINIS AND SPEED-CATIONS ARE INTENDED TO BE PULLY EXPLANTIORY AND SIPPLEMENTARY. FOWERER, SHOULD ANTHONIC BE SHOWN, INDICATED OR SPECIFIED ON ONE AND NOT THE OTHER. SHALL BE DONE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED IN BOTH, SHOULD THERE BE ANY INCREMANCES BETWEEN RECURREMENTS SHOWN IN BOTH, THE MORE STRINGENT REQUIREMENTS SHALL RPAIN.
- THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY. TOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
- THE PURPOSE OF THE ATAT WIRELESS CONSTRUCTION SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE PROCEDURE, TYPE AND QUALITY OF WATERIUS RECURRED TO COMPLETE THE WORLD.

ONFLOIS

- VERRY ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MATERIA OR DOING ANTIAL MARSK, NO EXTRA CHARGE OR COMPENSATION WILL BEFORE ORDERING MATERIA OR DOING ACTIAL MARSK SOR OLDENISOUS SHOWN ON PLAKE, SUBJET NOTICE OF ARY DECERBANCY IN DIMENSIONS OR OTHERWISE TO MARS MARSLESS FOR ARESOLUTION BEFORE PROFESSIONS WITH THE WARK.
- VO PLEA OF GNORANCE OF CONDITIONS THAT CUST ON OF DIFFICULITIES OF CONDITIONS THAT MAY BE ENCOUNTERED, OR OF MAY OTHER RELEAVING HATER CONSEINING HE EXCELLED OF THE CONSTITUTION OF THE WORK WILL BE ACCEPTED AS AM EXCLUSE FOR AMY FALLINE OR OMISSION ON THE PART OF THE CONTINUENCENTS OF THE CONSTITUTION DECOMED SOCIETIES OF CONSTITUTION DECOMED SOCIETIES.

EEP THE STIE FREE FROM ACCUMULATION OF WASTE AND RUBBISH CAUSED BY DIMPOSTES AT THE DIMPOSTION OF THE WORK, REMOVE ALL WASTE AND INNY-CONSTRUCTION METERAL INCLUDING ALL DIMPOSTION OF THE STIED AND SUPPLUS MATERIAL AND LEAVE SITE CLEAN AND REMOY FOR USE

ODES:

Ordinaryor shall be responsible for politying all laws, regulations and believes projutuation of the relations that the responsible for politying the responsible for the relations of the responsible for the responsibility is in the responsibility in the responsibility in the responsibility in these specifications.

WARE, AND MANTAIN A YAULD CONTRACTIONS LICENSE FOR THE LOCATION IN WHICH THE WARK IS TO BE ESPAPABLED, FOR MENDESCRIBINS THE LICENSES DIVIDING THE TRADESCRIBINS THE TRADESCRIBINS THE PROPERTIES SHALL BE LICENSESD. RESEARCH AND COLUMPY WITH LICENSES LAWS, PAY LICENSES FEED, AND SCHOOL FEED, AND COLUMPY WITH LICENSES LAWS, PAY LICENSES FEED, AND SCHOOL FEED, AND COLUMPY WITH LICENSES LAWS.

TOPLOW ALL APPLICABLE RULES AND REGILATIONS OF THE COCUMPATIONAL SAFETY AND HEALTH ADMINISTRATIONS. AND STATE LAWS SAEED IN THE ETEREAL COLUMPATIONAL SAFETY AND HEALTH ACT THESE REGILATIONS INCLINE BUT ARE NOT LIMITED TO REGILATIONS DEVUIS WITH TOWER CONSTRUCTION AND SUFFICI EXCENSES WERN HARD HATS AT ALL THATS DURING CONSTRUCTION. PROVIDE PHOTOGRAPHIC EVIDENCE OF ALL SCOPE RELATED WORK, INCLUDING BUT NOT LIMITED PROVIDING AND TRENCHING AFTER PLACEMENT OF UTILITIES PRIOR TO BACKFILL

BUILDING PERMITS:

ARAY WIRELESS WILL SIBMIT CONSTRUCTION DOCUMENTS TO THE JURISDICTONAL AUTHORITY FOR PLAN CHECK AND RECIPIE CONTRACTOR WILL SIBMIT LEDBRISH AND VERONAMINE CONDETENSION IN PROPAGATION IN TO THE JURISDICTION AS REQUIRED TO DETWIN THE BUILDING PERMIT CONTRACTOR SHALL COORDINATE AND SUCCESSION FROM THE TOWN THE AREA STELL CONTRACTOR AND THE SECURIFIC PERMITS AT THE JOB STELL CONTRACTOR SECURIFIC PERMITS AT THE JOB STELL CONTRACTOR AND THE SECURIFIC PERMITS AT THE JOB STELL WHITE CONTRACTOR AND THE CONTRACTOR AND THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR FOR THE CONTRACTOR FOR THE SECURIFIC PERMIT SECURIFICATION OCCUMENTS. ATEXT WIRELESS WILL REDUBLISHES THE CONTRACTOR FOR THESE FOR PLAN TRECHE, BUILDING SETWIT, CONTRACTOR FOR THE SECURIFICATION OCCUMENTS.

MING REGULATIONS AND CONDITIONAL USE PERMITS:

FM PERMIT AND TOWER LIGHTING:

ATAT WIRDLESS WILL SUBMIT FOR AND OBTAIN ALL ZONING AND CONDITIONAL USE PERMITS. SOME USE DEPAITS MAY HAVE SPECIFIC REQUIREMENTS RELIATED TO THE CONSTRUCTION SUCH AS MONSE REQUIATIONS, HOURS OF WORK, ACCESS HARTANDS, ETC. THE CONSTRUCTION MANAGER WILL INFORM THE CONTRACTOR OF THESE REQUIREMENTS AT THE PRE-BID MEETING OR AS SHOWN IN CONSTRUCTION

REPER TO CONSTRUCTION DOCUMENTS AND CONSTRUCTION MANAGER FOR FAN AND STATE LIGHTING RECUREMENTS. CONTRACTOR SHALL PROVIDE TEMPORARY FAN APPROVED LIGHTING UNTIL PERMANEDIT LIGHTING IS OPERATIONAL.

TOWER SECURITY:

TOWER MIST BE FENCED, TEMPORABLY OR PERMANENTLY WITHIN 24 HOURS OF ERECTION, DO NOT ALLOW THE DATE ACCESSING THE TOWER AGEA TO REMAIN OPEN OR UNATENDED AT ANY TIME FOR ANY REASON, KEEP THE GATE CLOSED AND LOCKED WHEN NOT IN USE.

1.12_SITE_CONTROL:

7

- THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR CONTAINABLY OF SEDNERY AND CONTROL OF EROSION AT THE SITE. ANY DAMAGE TO ADMOSTRY OR CONNISTROM PROPERTIES WILL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO ATA! WHELESS.
- THE CONTRACTOR IS TO MANTAN ASSIGNATE DENINGE AT ALL TIMES. BO NOT ALLOW WATER TO STAND OR POWN, NAY DANAGE TO STRUCTURES OR WORK ON THE STITE COUSED BY INDISEQUEE MAINTENANCE OF DEALNOSE PROVISIONS WILL BE HE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSIGNED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTOR'S EXPENSE.

AT&T MOBILITY 1801 VALLEY VIEW LANE FARMERS BRANCH, TX 75234

ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY THE CONSTRUCTION MANAGER AND IN ACCORDANCE WITH JURISDICTIONAL AUTHORITIES.

2.0 SITE PREPARATION:

Ö

2.1 SCOPE OF WORK INCLUDES:

?

- PROTECTION OF EXISTING TREES, VEGETATION AND LANDSCAPING MATERIALS WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.
- TRIMMING OF EXISTING TREES AND VECETATION AS REQUIRED FOR PROTECTION DURING CONSTRUCTION ACTIVITIES.
- CLEARING AND GRUBBING OF STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES, AND SITE IMPROVEMENTS.
- TOPSOIL STRIPPING AND STOCKPILING.

ი

- TEMPORARY EROSION CONTROL SILIATION CONTROL AND DUST CONTROL CONFORMING TO LOCAL REQUIREMENTS AS APPLICABLE.
- YEMPORARY PROTECTION OF ADJACENT PROPERTY, STRUCTURES, BENCHMARKS AND MONUMENTS.
- PROTECTION AND TEMPORARY RELOCATION, STORAGE AND RE-INSTALLATION OF DUSTING FENCING AND OTHER SITE IMPROVEMENTS SCHEDULED FOR REUSE.
- REMOVAL AND LEGAL DISPOSAL OF CLEARED MATERIALS.

$2.2\,$ eroducts and materials (as approved by construction manager or as noted documents):

3.0 EARTH WORK: MATERIALS USED FOR TREE PROTECTION, EROSION CONTROL, SILTATION CONTROL AND OUST CONTROL AS SUITABLE FOR SPECIFIC SITE CONDITIONS.

SCOPE OF WORK INCLUDES:

- EXCAVATION, TRENCHING, FILLING, COMPACTION, AND GRADING FOR STRUCTURES, SITE IMPROVEMENTS AND UTILITIES.
- MATERIALS FOR SUB-BASE DRAINAGE FILL FILL, BACKFILL AND CRAVEL FOR SUBS, PAVENENTS AND IMPROVEMENTS.
- ROCK EXCAVATION WITHOUT BLASTING.

SUPPLY OF ADDITIONAL MATERIALS FROM OFFSITE AS REQUIRED.

ಠ

- 3.2 QUALITY ASSURANCE:
- tu REMOVAL AND LEGAL DISPOSAL OF EXCAVATED MATERIALS AS REQUIRED

- COMPACTION:
- UNDER STRUCTURES, BULDING SLABS, PAYEMENTS AND WALVIMAYS WILL CETAIN A 55 PERCENT OMERACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITHIN PLUS OR MAULS 3 PERCENT OF OPTIMUM MOISTURE.
- GRADING TOLERANCES OUTSIDE BUILDING CODES:
- 1. LAWNS, UNPAYED AREAS AND WALKS PLUS OR MINUS 1 INCH.
- 2. UNDER PAVEMENTS PLUS OR MINUS 1/2 INCH.
- Grading toletange for fill under all congrete applications: pius or minus 1/2 inch measures with 10 foot straightedge.
- 3.3. PRODUCTS AND MATERIALS (AS APPROVED BY CONSTRUCTION MANAGER OR AS NOTED IN CONSTRUCTION DOCUMENTS).
- WASHED MATERIAL EVENLY GRADED MIXTURE OF CRUSHED STONE OR GRAVEL WITH 95 PERCENT PASSING A 1 1/2 INCH SIEVE. SUBBASE MATERIAL GRADED MOTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE OR SLAG, AND NATURAL SAND.
- GRADING MATERIAL WILL CONSIST OF: SATISFACTORY MATTIC OR MAPORTED SOIL MATERIALS FREE OF CLAY, ROCK OR GRAVEL OF LARGE THAN 2 INCHES IN ANY DIMENSION, DEBMS, WATE, FROZEM MATERIALS WILL NOT BE ALLOWED FOR USE, IMPORTED MATERIALS SHALL HAVE A DLAY CONTROL TO MODE THAN 5 PERCENT.

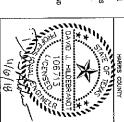
GENERAL NOTES	SHEET MICE



NFRASTRUCTURE

ILLMAN

HX0713 (HX0549) SITE ADDRESS:
6911 HWY 225
DEER PARK, TX 77536
HARRIS COUNTY



	0											
2 NEW RFDS	1 NEW RFDS	O ISSUED FOR CO	NO DESCRIPTION		DATE DRAWN:	APPROVED BY:	DRAWN BY:	GARDEN RIDGE, TX 7	19315 FM 2252, STE 301		YI.	
		FOR CONSTRUCTION		REVISION	81/23/18	코	1	TX 78266	30	CONSULTING ENGINEERS, INC.		
š	7	11	ą						ž	SE SE	Perces Laboral	
11/07/18	03/14/18	04/23/18	DATE					F-13646	PH: (210) 542-5911	K, MC	i,	

Z1.0

- BACKFILL MATERALS WILL CONSIST OF SATISFACTORY NON-COMESSIE NATIE OR MATERIALS PRIES FOLK PROCESSON OF BANGL NOW I LARGER THAN 4 MACES IN AMERICAN PERRIS, WASTE FROZEN MATERIALS AND OTHER HONOLOGICAL MATERIALS AND OTHER HONOLOGICAL MATERIALS AND OTHER MATERIALS THAN 5 PERCENTION MATERIAL SHALL HAVE A CLAY CONTENT OF NO MORE! THAN 5 PERCENT.
- GRAVEL MATERIAL EVENLY GRADED MIXTURE OF CRUSHED STOME OR GRAVEL WITH 95 PERCENT PASSING A 1 1/2 INCH SIEVE.
- GEOTEXTILE FABRIC: AS PER CONSTRUCTION DOCUMENTS.

SIRIPPING:

STRIP NOT LESS THAN 3 NOTIES OF SOD AND TOPSOLL FROM AREAS THAT WILL UNDERLAY GRAVEL PAYALEKIT, NEW STRUCTURES OR NEW EMBANGAENTS. STOCKPILE STRUPPING ON-SITE FOR RE-USE IN PINAL LANDSCAPING.

3.5 COMMON EXCAVATION:

- EXCAVATE TO DEPTH, LINES AND GRADES SHOWN ON THE PLANS OR AS OTHERWISE SPECIFIED.
- TEMPOWERY STOCKPILE ON-SITE EXCAVATION AT AM APPROVED LICKATION WITHIN THE WORK AREA LUTIL SITE GRADING IS COMPLETE STOCKPILE SWALL NOT EXCEED 15 FEET IN MEIGHT.
- LEGALLY DISPOSE OF EXCESS COMMON EXCAVATION OFF-SITE

3.7 EMBANKMENT:

- CONSTRUCT EMBANKMENT TO THE LINES AND GRADE SHOWN ON THE DRAWINGS. CONSTRUCT BARANMENT FROM ON—SITE EXCAVATION MATERIALS WHEN SUITABLE USE IMPORTED BASKFILL ONLY AFTER AVAILABLE ON—SITE EXCAVATION MATERIALS HAVE BEEN USED.
- CONSTRUCT IN LIFTS OF NOT MORE THAN 12 INCHES IN LOOSE DEPTH. THE PULL WIDTH OF THE CROSS SECTION SHALL BE BROUGHT UP UNIFORMLY.
- MATERIAL SHALL NOT BE PLACED IN LAYERS AND SHALL BE KEAR OPTIMUM MOSTINGE CONTINUE TO BEAUTH THE PRESCRIBED COMPACTION. SECTIME OF RESPONSION OF THE MATERIAL AND MANUFACTION TO SECTIME A UNICOUNT THE LAYER MAY BE REQUIRED. SUCH OPERATIONS SHALL BE INCLIDED IN THE APPROPRIATE HIS TIEM SHOULD THE MATERIAL BE TOO SET TO PERMIT PROPERS COMPACTIONS IN THE MATERIAL BE TOO SET TO PERMIT PROPERS COMPACTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE MATERIAL BETT AN ACCEPTABLE MOSTURE CONTRACTOR'S RESPONSIBILITY TO UTILIZE MATERIAL BETT AN ACCEPTABLE MOSTURE CONTRACTOR'S RESPONSIBILITY TO UTILIZE MATERIAL BETT AN ACCEPTABLE MOSTURE CONTRACTOR'S RESPONSIBILITY TO
- DO NOT PLACE FROZEN MATERIAL IN THE EMBANKMENT AND DO NOT PLACE EMBANKMENT MATERIAL UPON FROZEN MATERIAL
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANAUENTS AND THE REPLACEMENT OF ANY PORTION WHICH HAS BECOME DISPLACED DUE TO THE CONTRACTORS OPERATIONS.
- START LAYERS IN THE DEEPEST PORTION OF THE FILL AND AS PLACEMENT PRORESSES, CONSTRUCT LAYERS APPROXIMATELY PARALLEL TO THE PINISHED GRADE UNE.
- ROUTE EQUIPMENT, BOTH LOADED AND EMPTY, OVER THE FULL WIDTH OF EMBANKMENT TO ENSURE UNIFORMITY OF MATERIAL PLACEMENT.
- COMPAGE BIBANGENT UNDERLYNC NEW GRAVEL PANNON FLOOR SLASS AND STRUCTURES TO A SU FREQUIT COMPAGTION AT A MANNIMA DRY DESIGN AS GETEMINED BY ASTM A 1957 OR WITHIN PAUS OR MINUS 3 PERCENT OF DETMINIA MOSTURE CONTENT, COMPAGE NON-STRUCTURAL AREA EMBANNAEDTS TO A MINIMAN OF 9 X OF SATM ACCESST.

- USING ON-STIE EXCANATION MATERIALS SHAPE. TRIM, FINISH AND COMPACT SURFACE AREAS TO COMPACE TO THE MESS. GRADES AND CROSS SECTIONS SHOWN ON THE DRAWNOSS OR AS DESIGNATED BY THE CONSTRUCTION MANAGER.
- GRADE SURFACES TO DRAIN AND ELIMINATE ANY PONDING OR EROSION.
- ELIMINATE WHEEL RUTS BY REGRADING.
- COMPACT AREAS UNDERLYING NEW GRAVEL PANNIG, FLOOR SLABS AND STRUCTURES TO A 3/5 PERCENT COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTIM D-3/5 OR WITHER PLUS OR MINUS 3 PERCENT OF OF THAUM MOSTURE CONTENT.
- CONSTRUCT FINISHED SURFACE OF SITE GRADING AREAS WITHIN ONE INCHEROM SPECIFIED GRADE.

- SHAPE TOP OF SUBGRADE TO THE LINES AND GRADES SHOWN ON THE DRAWINGS.
- MAINTAIN TOP OF SUBGRADE TO A FREE-DRAINING CONDITION.

DO NOT STOCKPILE MATERIALS ON TOP OF SUBGRADE UNLESS AUTHORIZED BY CONSTRUCTION MANAGER.

'n

- COMPACT THE TOP 12 NICHES OF SUBGRADE TO A 95% COMPACTION AT A MAXMAN DRY DESITY AS OFFICENINGD BY ASTIN 0-1557 OR WITHIN FLUS OR MINUS 3 PERCENT OF OPTIMUM MOISTURE CONTENT.
- CONSTRUCT TOP OF SUBGRADE WITHIN ONE INCH OF ESTABLISHED GRADE AND CROSS-SECTION.

LAY GEOTEXTILE FABRIC CYER COMPACTED SUBGRADE AS PER CONSTRUCTION DOCUMENTS IN THE COMPOUND AREA AND UNDER LENGTH OF ROAD (WHEN REDUIRED). LAP ALL JOINTS TO A MINIMUM OF 38 INCHES.

- 3.11 GRAVEL SURFACING: CONSTRUCT GRAVEL SURFACING AREAS USING CRUSHED AGREGATE BASE AND FINISH COURSES AS SPECIFIED BY CONSTRUCTION MANAGER OR CONSTRUCTION DOCUMENTS.
- 4.0 TRENCHING: SPREAD GRAVEL AND RAKE TO OBTAIN A UNIFORM SURFACE AREA

CALL LOCAL UNDERGROUND UTILITY LOCATING SERVICE BEFORE ANY EXCAVATION OR TRENCHING.

4.1 MATERIALS:

HEN MIERAL ENALL SE CETANED, MEDIS POSSIBLE FROM MATERIALS ECCANATED STATEMENT FROM THE CONTROL OF THE TRANSPORT OF THE CONTROL OF THE CONTRO

4.2 PIPE DETECTION AND IDENTIFICATION:

UTILIZING WARNING TAPE: ALL ELECTRIC SERVICE TRENCHES SHALL BE MARKED WITH WARNING TAPE.

4.3 TRENCH EXCAVATION:

- DIG TRENCH TO LINES AND GRADES SHOWN ON THE PLANS OR AS DIRECTED BY CONSTRUCTION MANAGER.
- TRENCH LEAGTH SHALL BE SUFFICIENT TO ALLOW FOR SATISFACTIORY CONSTRUCTION AND INSPECTION OF THE PROJECT WITHOUT ENDANGERING OTHER CONSTRUCTION WORK OR ADJACENT FACILITIES.
- DISPOSE OF EXCESS AND UNSUITABLE EXCAVATION MATERIAL PROPERLY, AS DIRECTED BY CONSTRUCTION MANAGER.
- USE HAND METHODS FOR EXCAVATION THAT CANNOT BE ACCOMPLISHED WITHOUT ENDANGERING EXISTING OR NEW STRUCTURES OR OTHER FACILITIES.

4.4 TRENCH PROTECTION:

- provide materials, labor and equipment necessary to protect trenches at all times,
- SHEETING AND BRACING (MEET OR EXCEED OSHA REQUIREMENTS).

BACKFILLING

- NOTIFY THE CONSTRUCTION MANAGER AT LEAST 24 HOURS IN ADVANCE BACKFILING.
- BACKFILL TRENCH WITH LIFTS UP TO 12 INCHES, LOOSE MEASURE.
- PROTECT CONDUIT FROM LATERAL MOVEMENT, DAMAGE FROM IMPACT OR UNBALANCED LOADING TO AVOID DISPLACEMENT OF COMBILT AND/OR STRUCTURES. DO NOT FREE FALL MOVEMENT, MITO TRENCH UNTIL, AT LEAST 12 MOVES OF COVERS IS OVER THE CONDUIT.

4.6 COMPACTION:

- COMPACT SACKFILL TO A 95 PERCENT COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTIM 0-1557 OR WITHIN PLUS OR MINUS 3 PERCENT OF DIFFINAM MOISTURE CONTENT.
- IF REQUIRED COMPACTION DENSITY HAS NOT BEEN OFFINIED, REMOVE THE BACKETLL FROM THE TRENCH OR STRUCTURE, REPLACE WITH APPROVED BACKETL AND RECOMPACT AS SPECIFIED.

ANY SUBSICULARY STILLARAY OF TRENCH OR STRUCTURE BACKELL DURING MAINTEMANCE PERYOD SHALL BE CONSIDERED THE RESULT OF IMPROPER COMPACTION AND SHALL BE PROMPTLY CONTROLLED TO SHALL BE PROMPTLY FOR THE PROMPTLY CONTROLLED TO

5.0 CHAIN LINK FENCES AND GATES:

5.2 PRODUCTS, AND MATERIALS (AS APPROVED, BY CONSTRUCTION MANAGER OR AS MITHIN CONSTRUCTION DOCUMENTS): PROVIDE CHAIN LINK FENCES AND GATES AS COMPLETE UNITS BY A SINGLE SUPPL SOURCE INCLUDING NECESSARY ERECTION ACCESSORIES, FITTINGS AND FASTENERS.

AT&T MOBILITY
1801 VALLEY VIEW LANE
FARMERS BRANCH, TX 75234

COMPOUND PABRIC 84 INCHES HIGH AND OVER WITH 2—INCH MESH SHALL BE KNUCKLED AT ONE SELVAGE AND TWISTED AT THE OTHER.

STEEL FABRIC:

COMPLY WITH CHAIN LINK FENCE MANUFACTUREES INSTITUTE (CLFM) PRODUCT MANUAL FURNISH ONE PIECE OF FABRIC WIDTHS. WIRE SIZE INCLUDES ZINC OR ALUMINAM COATING.

SIZE: 2-INCH MESH 9 GAUGE (D.148-INCH DIAMETER) WIRE.

NFRASTRUCTURE

ILLMAN

GALVANIZED STEEL FINISH: ASTA! A 392, CLASS 2, WITH A MINIMUM OF 2.0 OZ. ZINC PER SQ. FT. OF UNCDATED WIRE SURFACE.

FRAMEWORK AND ACCESSORIES:

- GENERAL REQUIREMENTS: EXCEPT AS INDICATED OTHERWISE CONFORM TO THE CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLAM) PRODUCT MANUAL INDISTRAL STEED, GUIDE FOR FENCE RALLS, POSTS, GATES AND ACCESSORIES INCLUDING TABLE II.
- STRENGTH REQUIREMENTS FOR POSTS AND RAILS CONFORMING TO ASTM F 669
- TYPE 1 PIPE HOT-DIPPED CALVANIZED STEEL PIPE CONFORMING TO ASTM F 1083, PLANE ENDS, STANDARD WEIGHT (SCHEDULE 40) MTH NOT LESS THAN 18 OZ. ZINC PER 30, PT. OF SURFACE AREA CONTED.
- TOP ARL MANUFACTURERS (ONGEST LENGTHS, WITH EXPANSION TYPE COUPLINGS, APPROXIMATELY 6 INCHES (ONG. FOR EICH JOHT, PROVIDE MENUS FOR ATTACHING TOP PAIL SECURELY TO EACH GATE CORNER, PULL AND END POST. FILLNOS: COMPLY WITH ASTM F 526 MILL FINISHED ALUMINUM OR GALVANIZED IRON STEEL TO COMPLY WITH MANUFACTURER'S REQUIREMENTS.
- GALVANIZED STEEL 11/4 INCH NPS (1.86 INCH OD) TYPE I OR II STEEL PIPE OR 1.525 INCH X 1.25 INCH ROLL-FORMED C SECTIONS WEIGHING 1.35 LBS. PER FT.
- COMPLY WITH ASTM F 9000, PROVIDE HARDWARE AND ACCESSORIES FOR EACH GATE GALVANIZED PER ASTM A 153, AND IN ACCORDANCE WITH THE FOLLOWING:
- HINGES: NON LIFT-OFF TYPE, OFFSET TO PERMIT ISO DEG. GATE OPENING.
- LATCH: MTS MULTI-LOCKING DEVICE MT-C6477 OR APPROVED EQUAL
- KEEPER: PROVIDE KEEPER FOR VOHICLE GATES, WHICH AUTOMATICALLY ENGAGES GATE LEAF AND HOLDS IT IN OPEN POSITION UNTIL MANUALLY

CONCRETE

PROVIDE CONCIPETE CONSISTING OF PORTLAND CEMENT, ASTIN C 150, AGGREGATES ASTIN C 33, AND CLEAN WINER, MIX MATERIALS TO DETAIN CONCRETE WITH A MINIMANN OF 28—DAY COMPRESSIVE STRENGTH OF JODO PSI.

6.0. LANDSCAPING:

PURNISH, INSTALL, AND MARTAN LANDSCAPE WORK AS SHOWN AND OR REQUIRED WITHIN THE CONSTRUCTION DOCUMENTS OR AS SPECIFIED IN THE ATALT WIRELESS CONSTRUCTION SPECIFICATIONS.

7.0 CONCRETE FORMWORK:

forms: smooth and free of surface irregularities, utilize form release agents.

2 KEY RFDS

- CHAMPER, SPROSED EDGES OF ALL TOWER FOUNDATIONS SHALL RECEIVE A 3/4" BY 3/4" 45 DEGREE CHAMPER, OTHER EXPOSED EDGES SHALL RECEIVE A TOOLED HOURS FAIGHT.
- UPON COMPLETION, REMOVE ALL FORMS, INCLUDING THOSE CONCEALED OR BURIED
- REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS

REFER TO STRUCTURAL DRAWINGS FOR ALL REQUIREMENTS

HX0713 (HX0549) **HOUSE RELO** ATC GS ICE

SITE ADDRESS: 6911 HWY 225 DEER PARK, TX 77536 HARRIS COUNTY



	0	z		0	>	0	6.3		
AFE PERS) ISSUED FOR CO	O DESCRIPTION		DATE DRAWN:	UPPROVED BY:	RAWN BY:	19315 FM 2252, 5TE. GARDEN RIDGE, TX 7	4 0 C	1
	CONSTRUCTION		REVISION	04/23/18	귚	L	. 301 78266	CDRSULTING EN	
=	7=	8		5			3	ENGINEERS	Essen Las.E
183/14/	04/23/	DATE					PH: (210) 542-55 F-136	SS, INC.	i Ç

GENERAL NOTES

9.0 CAST IN PLACE CONCRETE:

FOR STRUCTURAL CONCRETE (FOOTINGS, FOUNDATIONS, ETC.), REFER TO STRUCTURAL DRAWINGS FOR REQUIREMENTS, FOR ANY MISCELLAMEDUS CONCRETE, REFER TO SPECIFICATION BOOK OR OFFINA REQUIREMENTS FROM CONSTRUCTION MANAGER.

- ALL CONCRETE SHALL COMPLY WITH ASTM 094 UNLESS NOTED OTHERWISE.
- NINNAMA COMPRESSAYE STRENCTH (FC) AT 28 OATS: 4000 PSI FOR TOWER FOUNDATION AND 3500 PSI FOR ALL OTHER CONCRETE UNLESS SPECIFIED I CONSTRUCTION DOCUMENTS.

AIR ENTRAINMENT:

CONCRETE TESTING: PROVIDE 4 TO 8% AR ENTRANMENT FOR ALL CONCRETE SUBJECT TO FREEZE-THAW CYCLE.

ALL FOUNDATION CONCRETE SHALL SE TESTED BY AN INDEPENDENT TESTING ACRORY PREPORTED BY THE CONSTRUCTION MANAGER. ALL STRUCTIVAL TOWER PROVINCION CONCRETE MUST BE SUIPMANT OR SHUDING PAUS ASE NOT REQUIRED TO SE TESTED, MUSES OTHERWISE NOTED BY CONSTRUCTION MANAGER. PROVINCE A MANUAL OF S CYLLADESS (72—73—74, 72—24—24). FOR EACH ANTS POUL, OR FOR POR PERFY SO YARDS FUNCED, WHICHERS IS GARGETS AND ELECTIONAL TESTS OF CHARGES AND ELECTROMASSED FUNCED, WHICHERS IS A SHARE AND THE THE PROVINCIES AND THE TESTING ACROSSON, TIESTS SHALL BASE SE REQUIRED FOR A PROVINCIES CONSTRUCTION AND POUR STRUCTION THE TESTING ACROSSON, THE TESTING ACROSSON, THE TESTING ACROSSON, THE TESTING ACROSSON A MANAGEMENT AND ACROSSON THE TESTING ACROSSON ACROSSON THE TESTING

- WIBMATE ALL CONCRETE USING SUFFICIENT HIGH FREQUENCY LOW AMPITUDE RECEIVANCE, MARCENANCE, AND CASE DIRECTORS, INSERT VIBRATIOSS, AND CONCRETE AT RECULAR INTERVAL, AND CASE DIRECT SUBMERT OF SUDJUCT HELL CONCRETE AND CASE DIRECTORS, INSERT VIBRATIOSS, AND CASE DIRECTORS, INSERT VIBRATIOSS, AND CASE DIRECTORS, INSERT VIBRATIOSS, AND INTO CONCRETS, AND INTO CONCRETS, AND RECOLLARITES, AND RECOLLARITES, AND RECOLLARITES, AND RECOLLARITES, AND RECOLLARITES, OF ITS WEIGHT IS RECOMMENDED, DESCONTRAINE, MERSHALD WHEN RESIDE CONTRAINED AND RECOLLARITES, AND RECOLLARIT
- FINISHING EXPOSED CONCRETE SURFACES:
- THESE PROVISIONS APPLY TO ALL EXPOSED AND ALL FORMED CONCRETE. SYCENIOR OR INTERIOR, UNLESS SPECIFICALLY DETAILED OTHERWISE, PERFORM PROCEDURES PRIOR TO APPLICATION OF ANY CURING COMPOUNDS.
- ALL SURFACES: THOROUGHLY CLEAN OFF ALL STAINS, SPATTER AND LOOSE MATERIAL

FINS, RIDGES AND HIGH SPOTS: HONE SMOOTH WITH ABRASIVE POWER GRINDERS WHILE CONCRETE IS GREEN, IMMEDIATELY AFTER FORM REMOVAL.

- FORM ITE HOLES AND DEEP DEPRESSIONS; FLUSH THOROUGHLY WITH CLEAN WATER AND THAN TO OVERFULL WITH DRYPACK, CURE 10 DAYS AND HONE FLUSH AND SACOTH.
- ROCK POCKETS, HONEFOOMS SAND STREAKS, DEERS AND VOIDS: CUIT OUT AT LEAST I NICH DEER WITH SIGES REPREDUIDLING TO SURFACE FLUSH THOPROUGHLY WITH, CLEAN WATER, COAST SURFACE WITH NEXT CEMENT PASTE AND TAMP TO OKSPETUL WITH DRYPACK M. AT LEAST TWO LAYERS, CURE FOR 10 DAYS AND HOME FLUSHED AND SMOOTH.
- CONTRACTION SHALL YEARY ALL SIZES AND LOCATIONS OF ALL ELECTRICAL OPENMENTS AND SEPAMONES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTION OF ROMODE ALL OPENMENTS AND SHEEPENTS FOR POPERED INSTRUCTION FOR ALL UTILIES. CONTRACTOR SHALL RETER TO DRAWNESS OF OTHER TRACES AND SEPAMONES FOR SHALL RETER TO DRAWNESS FOR SHALL RETER TO DRAWNESS FOR SHALL RETER TO DRAWNESS FOR SHALL RESPONSIBILITY OF SHALL DRAWNESS FOR SHALL RESPONSIBILITY OF THE SH

10.0 STRUCTURAL STEEL:

MEET OR EXCEED MANUFACTURER'S RECOMMENDATIONS.

- UNILESS OTHERWISE NOTED ALL DETAILING, FABRICATION AND PLACING OF RESERVACING STREEL SHALL COMPOREN TO THE MANULA OF STANDARD PRACTICE FOR DETAILING RESPROSED CONCRETE STRUCTURES (ACI 315).
- ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL, CONFORMING TO ASTM A-615 GRADE SO, DEFORMED.
- Heating and Welding of Bars is prohibited with the exception of written approval by the structural engineer,
- ALL REINFORCEMENT BARS TO BE FREE FROM LOOSE RUST AND SCALE

- WHILES ONHERWISE MITED. ALL REMONDEMENT SHALL HAVE A MINIMAN CONCRETE COVERNOR OF A NORTHEL THIS ARE REQUIRED BY TESTING AGENOY OF CONSTRUCTION MANAGER.
- SPUCES IN REMPORCEMENT STEEL ARE PROHIBITED, UNLESS APPROVED BY CONSTRUCTION MANAGER, ALL SPUCES MUST THEN MEET ALL APPLICABLE ASTM STANDARDS FOR SPLICING.

11.0 GROUNDING:

MEET ALL APPLICABLE CODES, REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND ATEXT WIRELESS CONSTRUCTION SPECIFICATIONS.

GENERATOR, SPECIFICATIONS:

SWITCHES AND STANDARD FEATURES.

- CYCLIC CRANKING.
- VOLTAGE ADJUSTING RHEOSTAT. ALARM HORN WITH SILENCING SWITCH.
- OVERVOLTAGE PROTECTION.
- REMOTE TWO-WIRE AUTO START SYSTEM
- LAMP TEST SWITCH.
- ENGINE COOL DOWN TIMER (5 MINUTES). RUN-OFF-RESET/AUTO SWITCH (ENGINE START).
- ERROR-PROOF WIRING HARNESS FOR ELECTRICAL CONNECTIONS.
- PANEL LAMPS.
- DC CIRCUIT PROTECTION.

UNIT ACCESSORIES:

- WEATHER HOUSING-STANDARD WITH ROOF MOUNTED SILENCER
- MOUNTED CRITICAL GRADE EXHAUST SILENCER.
- TAIL PIPE AND RAIN CAP.

COOLING SYSTEM ACCESSORIES UNIT MOUNTED RADIATOR

- ENGINE BLOCK HEATER
- SYSTEM ACCESSORIES:
- PLEXIBLE FUEL LINES. ENGINE BLOCK HEATER
- SUBBASE FUEL TANK-172 GALLONS. .
- DOUBLE WALL CONSTRUCTION WITH LEAK DETECTION MONITOR.
- U.L. 142 USTED.
- FUEL LEVEL GAUGE
- LOW FUEL LEVEL ALARM.
- FILL PIPE EXTENDED 10% INTO TANK
- HIGH-FUEL LEVEL ALARM-SET AT 95%
- ō 7.5 GALLON LOCKABLE FILL WITH SPILL CONTAINMENT.

ANTENNA & COAX NOTES:

- VERIFY EACH CABLE LENGTH, DIAMETER, ROUTING, COLOR CODING AND ALL APPURTENANCES.
- THE MAXIMUM COMMAL CABLE LENGTH AND CORRESPONDING COMMAL DIMETER IS SHOWN ON AZO, THIS CABLE LENGTH IS TO BE USED FOR PARRICATION ACTUAL CABLE LENGTH(S) MUST BE VERIFIED. COMMAL CABLE SHALL BE PROVIDED BY ATAT.
- COAX CABLES SHALL UTILIZED GROUND KITS, GROUNDED AS FOLLOWS:
- NEAR ANTENNA RAD CENTER ELEVATION.
- MIDDLE OF TOWER (MID-HEIGHT OF ANTENNA), IF CABLE RUN IS OVER 200'-0"
- BOTTOM OF TOWER.
- AT MASTER GROUND BAR 3'-0" FROM MMBS-BBU

- ALL TOP JUMPERS SHALL BE LENGTHS AS SHOWN AND INSTALLED BY CONTRACTOR.
- ALL CABLES SHALL BE COLOR CODED AS SHOWN ON SHEET RF1.0 AN IN ACCORDANCE WITH AT&T SPECIFICATIONS.
- BANDING SHALL BE IN ACCORDANCE WITH SHEET AZ.O. RF1.0 AND AS FOLLOWS:
- MAIN LINE COLOR BANDS SHALL BE 2" WIDE, MAINTAIN 1" SPACING BETWEEN COLORS.
- FREQUENCY COLOR BANDS SHALL BE 2" NIDE WITH NO SPACE BETWEEN COLORS.
- JUMPER COLOR BANDS SHALL BE 1" WIDE WITH 1" SPACE.
- START COLOR BANDS 2" BEYOND WEATHERPROOFING.
- START SELECTOR COLOR NEXT TO END CONNECTORS.
- FINAL COAXIAL ANTENNA CABLE SIZES SHALL BE DETERMINED BY PICKNEED, SEE ANTENNA SCHEDULE SHEET AZ.O. BASE ON FINAL LENGTHS DETERMINED BY AZER. CABLE RUN
- SEE CONSTRUCTION MANAGER FOR ANTENNA SUPPORT ASSEMBLY TYPE.

NFRASTRUCTURE

100 ليا باره

- ALL COANAL CABLE WILL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE AT OSTANCES NOT TO EXCEED 3' OR THE CABLE MANUFACTURES SPECIFICATIONS WHICHERER IS LESS WITH HARMANEE SPECIFIED IN THE COANAL CABLE ROUTING DETAILS OF THE SUPPLIED STRUCTURAL REPORT BY OTHERS.
- PROVIDE AT LEAST 6^{\star} OF SLACK IN THE MAIN COAXIAL CABLES AT THE ANTENNA MOUNTING ELEVATION TO PROVIDE FOR FUTURE CONNECTOR REPLACEMENT.

ĕ



337 (Dak).



HX0713 (HX0549) **HOUSE RELO** ATC GS ICE

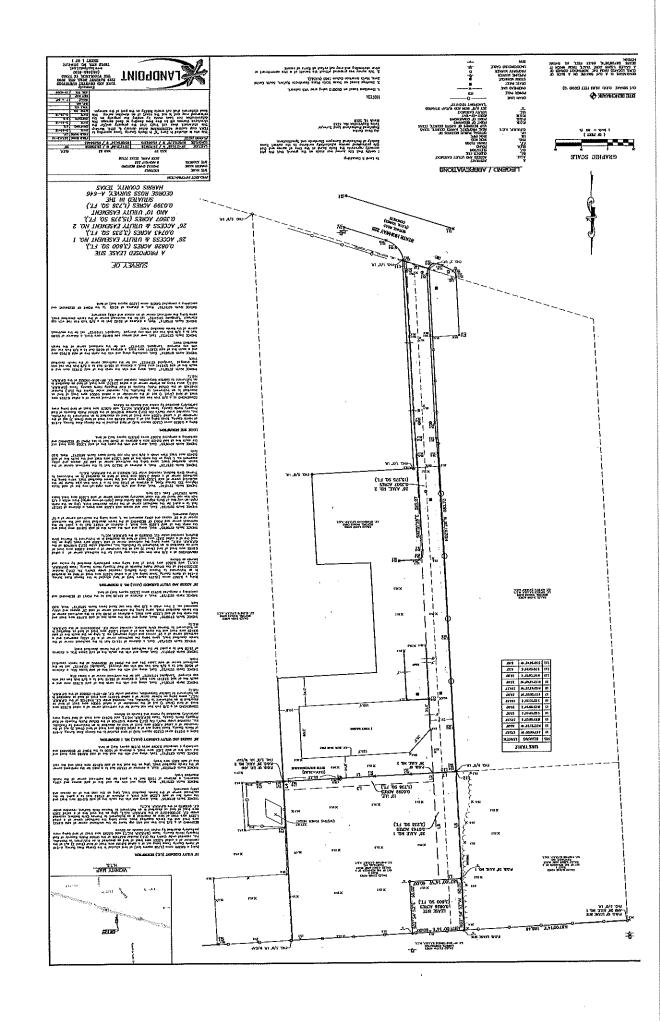
SITE ADDRESS: 6911 HWY 225 DEER PARK, TX 77536 HARRIS COUNTY

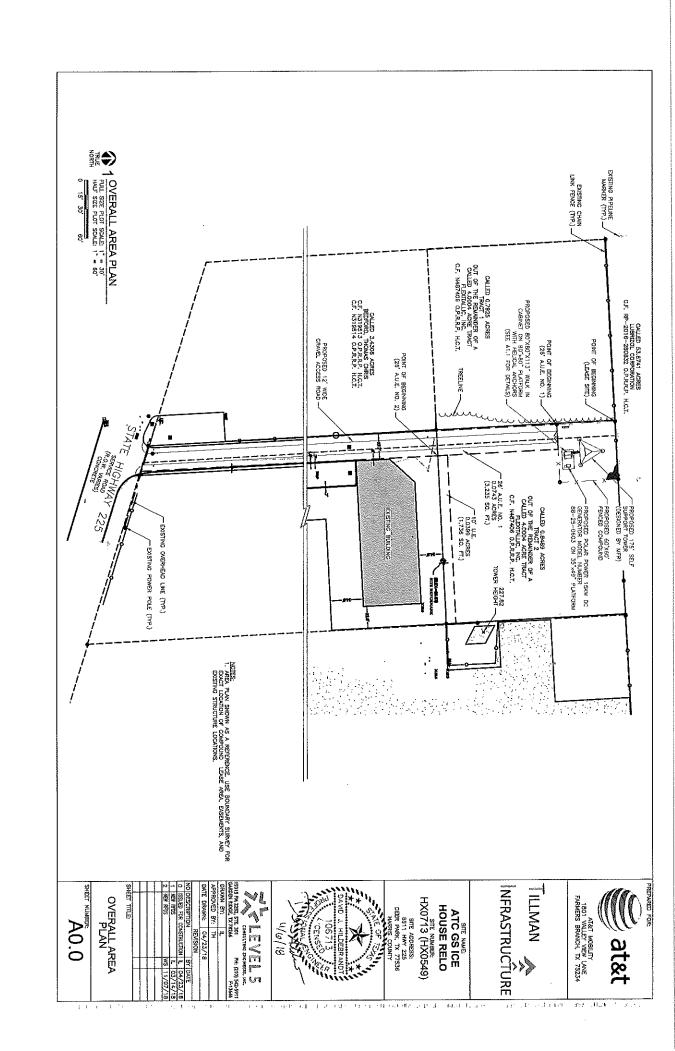


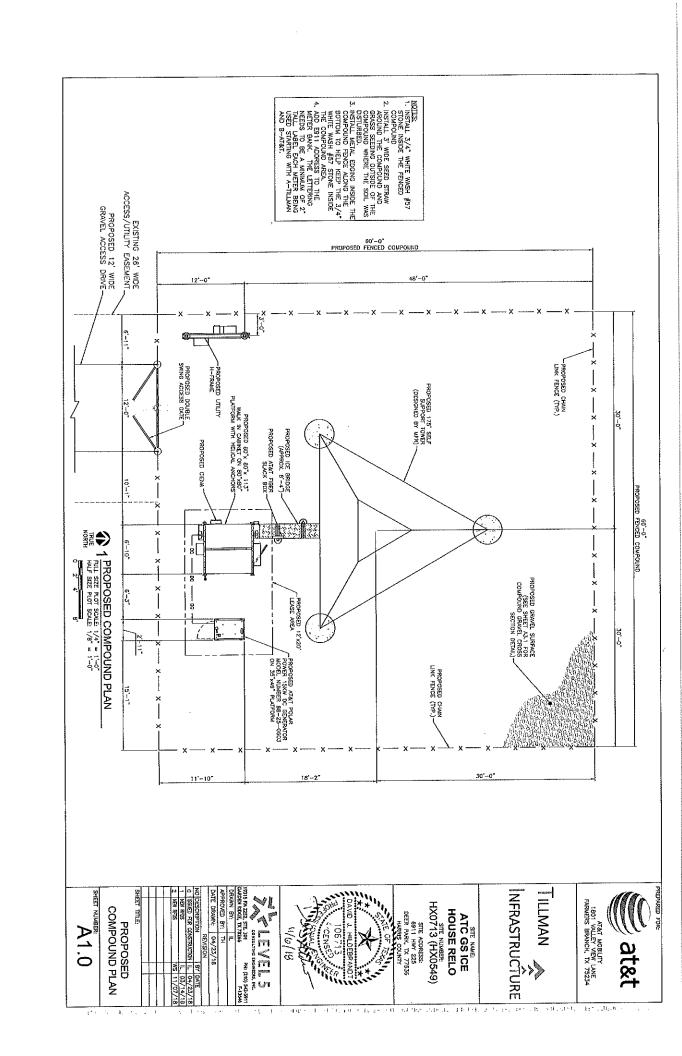
	O ISSUED FOR CO	NO DESCRIPTION		DATE DRAWN:	APPROVED BY:	DRAWN BY:	19315 FM 2252, STE. 301 GARDEN RIDGE, TX 7626	Z
	INSTRUCTION		REVISION	04/23/18	된	H	TE. 301 X 78266	LEVELS COMBUTING ENGINEES, INC.
	F	ВΥ		a			쿭	5 1.6.1
2	04/23/	DATE					PH: (210) \$42-59 F-136	ž (A)

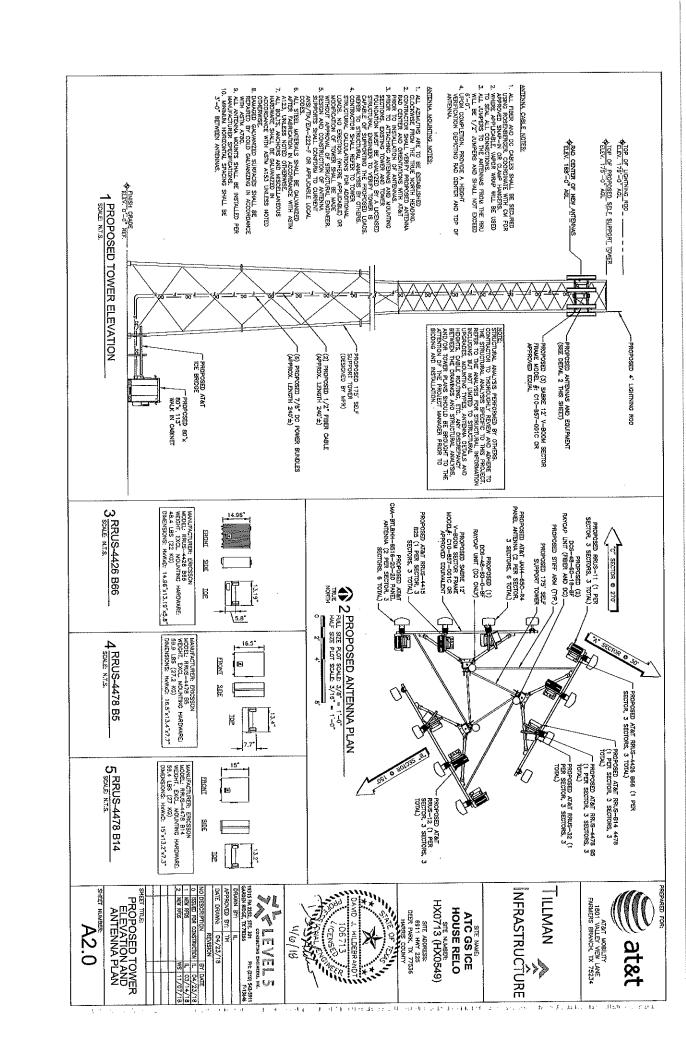
GENERAL NOTES

Z1.2









RRH - WCS band (OTYMODEL)	Control of the second	BRY - 1900 band (OTYOMORE)	trade - two sense (and concern)	1 Tangona (GLANODET)	REPEATER (QTY/MODEL)	DC TRUNK (OTYMODEL)	FIBER TRUNK (GTYNAODEL)	נשמסאהיום) מועספ	FILTER (OTYMODEL)	POU FOR TIMAS (GTYMODEL)	CURRENT INJECTORS FOR TWA (GTYMODEL)	THALKA (QTYMODEL)	DC BLOCK (OTYMODEL)	Amenina RET CONTROL UNIT (GTYMODEL)	DUPLEXER (QTYTMODEL)	DIPLEXER (OTYMODEL)	SURGE ARRESTOR (OTYMODEL)	Antenna RET Motor (QTYMODEL)	HORIZONTAL SEPARATION from ANOTHER ANTENNA (which sengra #) # of (redles)	ANTENNA to RIGHT (CENTERLINE to CENTERLINE)	HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT CENTERLINE to CENTERLINE)	VERTICAL SEPARATION from ANTENNA BELOW (TIP to TIP)	VERTICAL SEPARATION from ANTENNA ABOVE (TIP to TIP)	FEEDER AMOUNT	MECHANICAL DOWNTILT	ANTENNA TIP HEIGHT	RADIATION CENTER (14-40) 188	MAGNETIC DECLINATION	AZIMIZA 30	ANTENNA WEIGHT 88	ANTENNA SIZE (H x W x D) 72X18.2X7.3	ANTENNA VENDOR CHA	ANTENNA MAKE - MODEL CM	LEFT to RIGHT from BACK OF ANTENNA (United adhervise specified)	
1701 001	120		7	RAUS-11 E 9:2												mander immerser errerererere ferfere felder felde feld					· Para de la companya			***************************************	Management of the Control of the Con				THE THE PROPERTY OF THE PROPER		CIE DO A	-40	ANTENNA MAKE - MODEL CMA-STLENHUSSISIZOZOMIS RET	ARTEMA POSITION 1	
	and the second s	SALE STATE OF THE SALE STATE O	- 2025-17																THE PARTY HAVE BEEN AS A SECOND HOLD BEEN AS								1891		30	5B	72816.297-5	DN/A	CMA-STLEHH0816/20/20/A15_RET	ANTENNA POSITION 2	Section
		111111111111111111111111111111111111111	Michigan Company	1 614.4428			- Constitution of the Cons					944						ATTENDED TO THE PROPERTY OF TH						The state of the s			168		30	87.2	gextraxed	COMMISCOPE	JAH4-45C-R4	ANTENNA POSITION 3	Section 17A - FINAL TOWER CONFIGURATION - SI
		The state of the s		***************************************										1	***************************************	AND THE PROPERTY OF THE PROPER		- Particulation of the Particu	The section of the se					Andrew - Petri			166		30	55.2	2,8X3,EX3,2	COMMISCORE	JAH4-80C-R4	ANTERNA POSITION A	NEIGURATION - SECTOR A (OR OMNI)
							Account of the second s								LLL				- ATTOCATION OF THE PROPERTY O		N-10	THE PROPERTY OF THE PROPERTY O	-PE-ANNALISM - I					-						AATENIA POSITION S	R OMNI)
		2 NEW REDS WS 11/07/18	1 NEW REDS 11. 03/14/18	NO DESCRIPTION BY DATE	REVISION	DATE DRAWN: 04/23/18	3		19315 FM 2252, STE. 301 PH: (210) 542-5911	CONSELLING ENGINEERS. INC.			1/6/1a	TANK MARKET	The season of th	COENSE VE	106713 JAN	DAWD J. HILDEBRANDT			DEER PARK, TX 77536 HARRIS COUNTY	SITE ADDRESS: 6911 HWY 225	HX0713 (HX0549)	HOUSE RELO	ATC GS ICE	SITE NAME:		-	יין אין אין אין אין אין אין אין אין אין	NEBACTOI ICTI IBE	**************************************	I LLMAN		171	AT&T MOBILITY 1801 VALLEY VIEW LANE FARMERS BRANCH, TX 75234

A2.1

ANTENNA CONFIGURATION (SECTOR A)

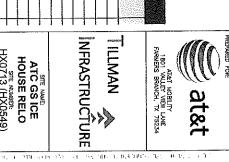
To be set to

 $t = \{1, \dots, t\}$



ILLMAN A REALING

DOCE			RAUS-35	3				<u> </u>	RRH - WC3 band (OTYGRODE)
							4416 E08	<u></u>	RRH - AWS band (OTY/MODEL)
Ŧ					4415 825	-		Ē	RSH - 1900 band (QTY/MODEL)
H			473.65	4	8FUS-12			Œ	RRH - 950 band (CTYNAODEL)
2 Kg			514 4478	3			RRUS-11 E B12	戶	RSH - 700 band (GTY/MODEL)
0 1553									REPEATER (OTYMODEL)
NO DES								4	TEGORALDS OF LEGENALDS
DATE								Ē	FISER TRUNK (OTYMODEL)
APPROV	and the same of th	The second secon						ELI	SQUID (QTYWODEL)
DRAWN								2	PILTER (CTYMODEL)
19315 FM								EL)	POU FOR TMAS (QITYMODEL)
			- Torrespond					2	CURRENT INJECTORS FOR TMA (OTYMODEL)
								5	THAILMA (OTYMODEL)
								Ē	DC BLOCK (QTY)MODEL
								er.	Antenna RET CONTROL UNIT (QTY)MODEL
·-								E)	DUPLEXER (CITYMODEL)
									DIPLEXER (GTYMODEL)
-								P	SURGE ARRESTOR (CTYMODEL)
del			- -	war war and the same and the sa				EL)	Antenna RET Motor (QTYMODEL)
					MARIE TOTAL			es :	HORIZONTAL SEPARATION from ANOTHER ANTENNA (which actions a 1 d of inches)
\ \\				-				NE ST	HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE)
								3T NE	HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE)
	The the state of t	Addresion 1.	- Landander Control of				William	nes.	VERTICAL SEPARATION from ANTENNA BELOW
· 	**************************************			200				国品	VERTICAL SEPARATION from ANTENNA ABOVE
								3	FEEDER AMOUNT
									MECHANICAL DOWNTILT
							***************************************	3	ANTENNA TIP HEIGHT
	***************************************		158	10E	,	188		:e1 105	RADIATION CENTER (feet) 105
								8	vagnetic declination
			150	150		156		AZIMUTH 150	ראונדא
		Western and other property of the lands	67.2	87.Z		8.8		H7 88	ANTENNA WEIGHT 08
		K8.2	28X13.\$X8.2	gex 13.8xe.2		72X16.2X7.5		D) 72X162XT.8	ANTENNA 5/2E (H x W x D) 72X16/200/8
•	The second secon	COPE	COMMSCOPE	сомизсоре		ONA		DR CMA	ANTENNA VENDOR CMA
		C-R4	JAH-65C-R4	JAHA-BEC-R4	18:20:30:A15_RET	CNA-87LEHHV6518/20/20/A15_RET	NOCOLAIS RET	EL CWABILEHHOSTE	ANTENNA MAKE - MODEL CMA-BILBHH05:8/2020/A15 RET
wat	AMPRINA POSTISON S	ANTENNA POSITION A	SITION 3	ANTENNA POSITION 3	ANTERNA POSITION 2	2	ANTERNA POSITION 1	W	ANTENNA POSITION IS LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)
FAR 1		FIGURATION - SECTOR B	AL TOWER CON	Section 17B - FINAL TOWER CONFIGURATIO					



ILLMAN **
NFRASTRUCTURE

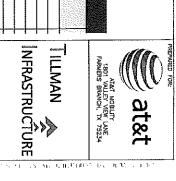
SITE NAME:
ATC GS ICE
HOUSE RELO
SITE AUMER:
HX0713 (HX0549)
SITE AUMERS:
SEEN PARK, TX 77838
DEER PARK, T

COMPUTATO ENHANCES, INC.
DDC: TX-72666 PH: (210) 542-5911
DDC: TX-72666 PH: (210) 542-5911

ANTENNA CONFIGURATION (SECTOR B)

SHEET NUMBER: A2.2

APPRINGE AND PROPERTY APPRINGED AND PROPERTY APPRICATE APPRINGED AND PROPERTY APPRICATE APPRINGED AND PROPERTY APPRICATE APPRICAT	[1 4/28 666	RRH - AWS band (QTY/MODEL)
ANTERNA PORTIDAY. CLARITERNA PORTIDAY. CLA	1 4472			and always and another the
ANTIGORA PORTIONA ANTI	(B)4-177	***************************************		
ANTERNA COSTIDA I. CALA-ELEMENTS SOZIZIOLA DE PETA DESCRIA DA COSTIDA ANTERNA POSITIDA I. CALA-ELEMENTS SOZIZIOLA DE PETA DE COMUNICIONE COMUNICIPAT SE COMUNICIPAT COMUN	C 814-1472	4415 925		RSH - 1900 band (GTY/MODEL)
ANTIGNA POSITION 1 ANTIGNA POSITION 2 CAMPILLIA-RES SOCIOLAS PETT DA ANTIGNA POSITION 2 CAMPILLIA-RES SOCIOLAS PETT DA ANTIGNA POSITION 2 CAMPILLIA-RES SOCIOLAS PETT DA ANTIGNA POSITION 2 COMMISSOR COM	61.4.472	: PRUS-12		FRAH - 850 band (OTY)MODEL
ANTERION POSITION 1 ANTERION POSITION 2 CAM-STERNON		-		RRH - 700 band (OTYMODEL)
ANTERNA POSITION 1 CALCATE HARDS 2020 ANTERNA POSITION 2 CALCATE HARDS 2 CALCATE HARDS 2020 ANTERNA POSITION 2 CALCATE HARDS 2 CAL				REPEATER (OTYMODEL)
ANTERNA POSITION 1 CASCALLIB-HISTORIO ANTERNA POSITION 2 CASCALLIB-HISTORIO ANTERNA POSITION 2		***************************************		DC TRUNK (GTYMADELI
ANTENNA POSITION 1 OLA-RILE-HIROSOZOZANI S, RET OLA-RILE-HIROSOZANI S, RET OLA-RILE-HIROSOZAN				FIBER TRUNK (OTYMODEL)
ANTERNA POSITION 1 OLIA-ILLI-HISTOSOSIA SEET DAMA OLIA-ILLI-				SQUID (CTYTHODEL)
ANTERNA POSITION 3 OLAS III SHANDS 1000000 15, SEE OLAS III SHANDS 1000000 15, SEE TO 100 270 270 270 270 270 270 270				FILTER (CTYMODEL)
ANTERNA POSITION ANTERNA POSITION 3 ANTERNA POSITION 3 ANTERNA POSITION 4 ANTERNA POSITION 3 ANTERNA POSITION 4 ANTERNA P				PDU FOR THAS (QTY/NODEL)
ANTERNA POSITION 1 ANTERNA POSITION 3 ANTERN				CURRENT MUECTORS FOR THE (QTY/MODEL)
ANTENNA POSITION 1				THAILRA (OTYMODEL)
ANTENNA POSITION 1 ANTENNA POSITION 2 ANTENNA POSITION 3 ANTENA POSITION 3 ANTENNA				DC BLOCK (QTY/MODEL)
ANTERIAL POSITION 1	The same of the sa			Antenna RET CONTROL UNIT (OTYMODEL)
ANTERIA FORTION 1 ANTERIA PRISTOZIONA I, RET. CALA TERIAN POSTIDIA A TO CALA TERIAN POSTIDIA	Windshift Hard Advisory Advisory Hard Hard Hard Hard Hard Hard Hard Hard	**************************************	**************************************	DUPLEXER (OTYMODEL)
ANTERIO POSITION 1 ANTERIO POSITION 2 ANTERIO POSITION 2 COMMERCIA POSITION 2 COMMERCIA POSITION 3 SET ANTERIO POSITION 3 COMMERCIA POSITION 3 COMERCIA POSITION 3 COMERCIA POSITION 3 COMERCIA POSITION 3 COMERCIA POSITIO				OPLEXER (OTYMODEL)
ANTENNA POSITION 1 ANTENNA POSITION 2 ANTENNA POSITION 2 ANTENNA POSITION 3 ANTENA POSITION 3 ANTENNA				SURGE ARRESTOR (GTYMODEL)
ANTENAN POSITION 1 ANTENAN POSITION 2 ANTENAN POSITION 3 CAL CAL CAL CAL CAL CAL CAL CA	L. J. Laterus L. Lorente Historia Constitutiva de la constitutiva de l			Antenna RET Motor (QTY(MODEL)
ANTENA POSITION 1 ANTENA POSITION 2 ANTENA POSITION 2 ANTENA POSITION 3 COMMISSIONE COMMISS	The same of the sa			HORIZONTAL SEPARATION from ANOTHER ANTENNA (which antenna #/# of inches)
ANTERAL POSITION 1 ANTERIA POSITION 2 ANTERIA POSITION 3 ANTERIA POSITION 3 ANTERIA POSITION 3 CHARGE ILBHRINGS 10200 20/A 15_RET	The state of the s		reaction and the second and the seco	HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT ICENTERLINE to CENTERLINE
ANTERIA POSITION 1 ANTERIA POSITION 2 ANTERIA POSITION 2 ANTERIA POSITION 3 ANTERI			AMERIKAN MANAMATAN M	HORIZONFAL SEPARATION from CLOSEST ANTENNA to LEFT ICENTERUNE to CENTERUNE
ANTERIA POSITON 1 ANTERIA POSITON 2 ANTERIA POSITON 1 ANTERIA POSIT				VERTICAL SEPARATION from ANTENNA BELOW [TIP to TIP]
ANTERIA POSITION 1		teriori elektriste de describente de la constante de la consta		VERTICAL SEPARATION from ANTENNA ABOVE
ANTERIO POSITOR 1	The second secon			FEEDER AMOUNT
DOEL CHAPTERION POSITION 1 ANTERION POSITION 2 ANTERION POSITION 3 ANTERION POSITION 4 ANTERION POSITION 4 DOEL CALA. COMA-STLEM-MESTIZZOZIALIS, RET LAMA-SELEM-MESTIZZOZIALIS, RET LAMA-SELEM-RES LAMA-SELEM-RES LAMA-SELEM-RES DOER CALA. COMA-SELEM-RES COMASSICOPE COMMISSICOPE COMMISSICOPE BORT RES 89 209 2972 2972 BORT RES 270 270 270 270 BORT RES 168 168 168 768	WWW. The state of			MECHANICAL DOWNTLT
ANTENNA POSITION 1				ANTENNA TIP HEIGHT
ANTENNA POSITION 1	**************************************		I Gu	RADIATION CENTER (feet)
DOEL CALA-STEEN+ POSITION 1 ANTENNA POSITION 2 ANTENNA POSITION 3 ANTENA POSITION 3 ANTENNA POSITION 3 <th< td=""><td></td><td>,</td><td></td><td>MAGNETIC DECLINATION</td></th<>		,		MAGNETIC DECLINATION
ANTERION POSITION 1 ANTERION POSITION 2 ANTERION POSITION 3		isk hande mendelijke stoft bestrad forset betree doet esk bit de de de fantaste de forset betree de de fantaste de forset betree de de fantaste de forset betree de forset betre	270	AZIMUTH
AMTERIAN POSITION 1 ANTERIAN POSITION 2 ANTERIAN POSITION 3 ANTERIAN POSITION 3 ANTERIAN POSITION 3 ANTERIAN POSITION 4 ANTERIAN POSITION 4 ANTERIAN POSITION 3 ANTERIAN POSITION 3 ANTERIAN POSITION 4			88	ANTENNA WEIGHT
ANTENIA POSITOR 1 ANTENIA POSITOR 2 ANTENIA POSITOR 3 ANTENIA POSITOR 4 ANTENIA POSITOR 3 ANTENIA POSITOR 4		13X7.5	72X14.235.8	ANTEKNA SIZE (H ± W × D)
ANTERIO POSITOR 1 ANTERIO POSITOR 2 ANTERIO POSITOR 3 ANTERIO POSITOR 3 DEL CIA-STLEH-MISTISCOCO (S. PET CIA-STLEH-MISTISCOCO STATE) ANTERIO POSITOR 3 ANTERIO POSITOR 1 ANTERIO POSITOR 3 ANTERIO POSI	THE PROPERTY OF THE PROPERTY O	WILLIAM TO THE TRANSPORT OF THE TRANSPORT OF THE TRANSPORT OF THE PROPERTY OF THE TRANSPORT		ANTENNA VENDOR
ANTENNA POSITION 1 ANTENNA POSITION 2 ANTENNA POSITION 3 ANTENNA POSITION 3			CMA-BTLBH-V8518/20/20/A15_RET	ANTENNA MAKE-HODEL
	ANTERNA POSTEDA 4	Антенка Розпон 2	ANTERNA POSITION 1	ANTENNA POSITION IS LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)



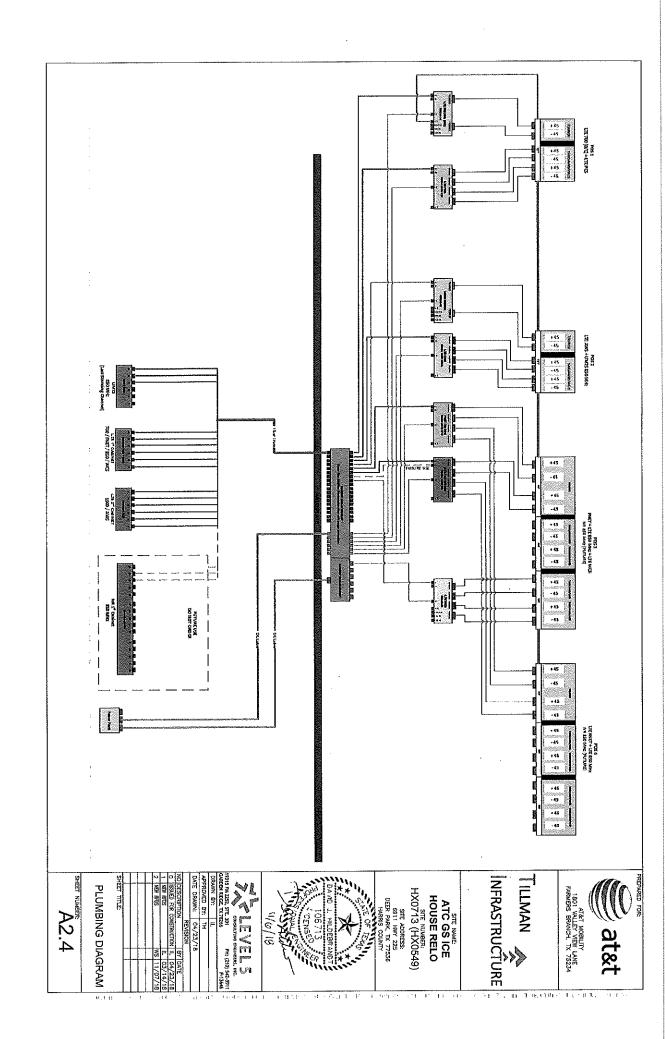
ATC GS ICE
HOUSE RELO
SITE NUMERS
HX0713 (HX0549)
SITE NUMERS
SITE NUMERS
SITE NUMERS
SITE NUMERS
SITE NUMERS
SUMMY
STAND
TO J. HILDERPANDT
TO G. 713
TO G.

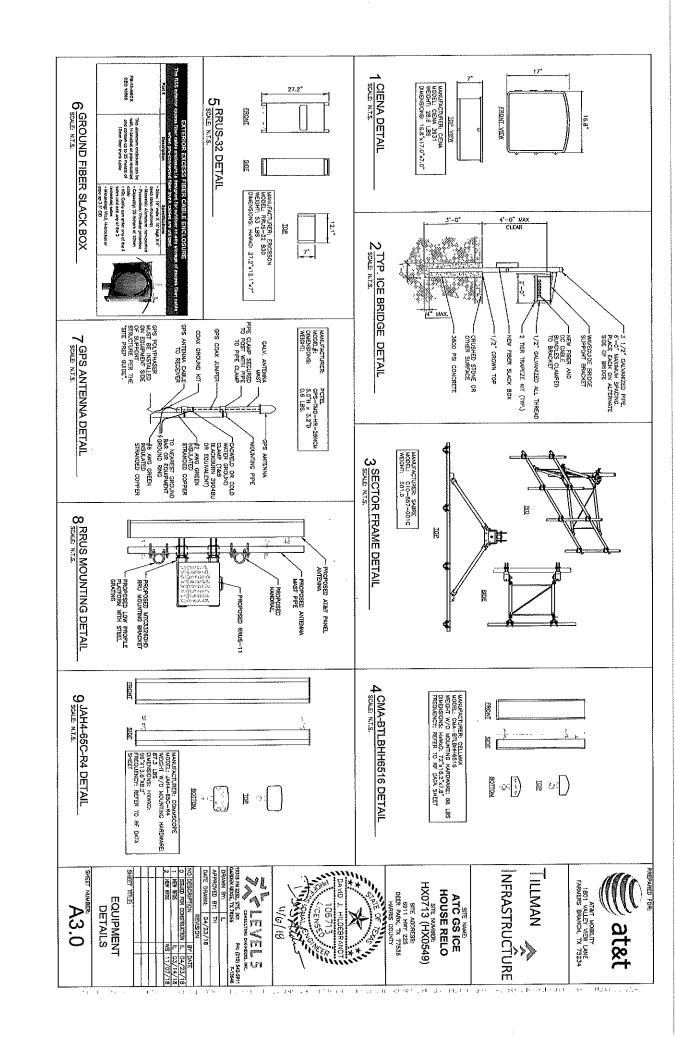
1 (1...)

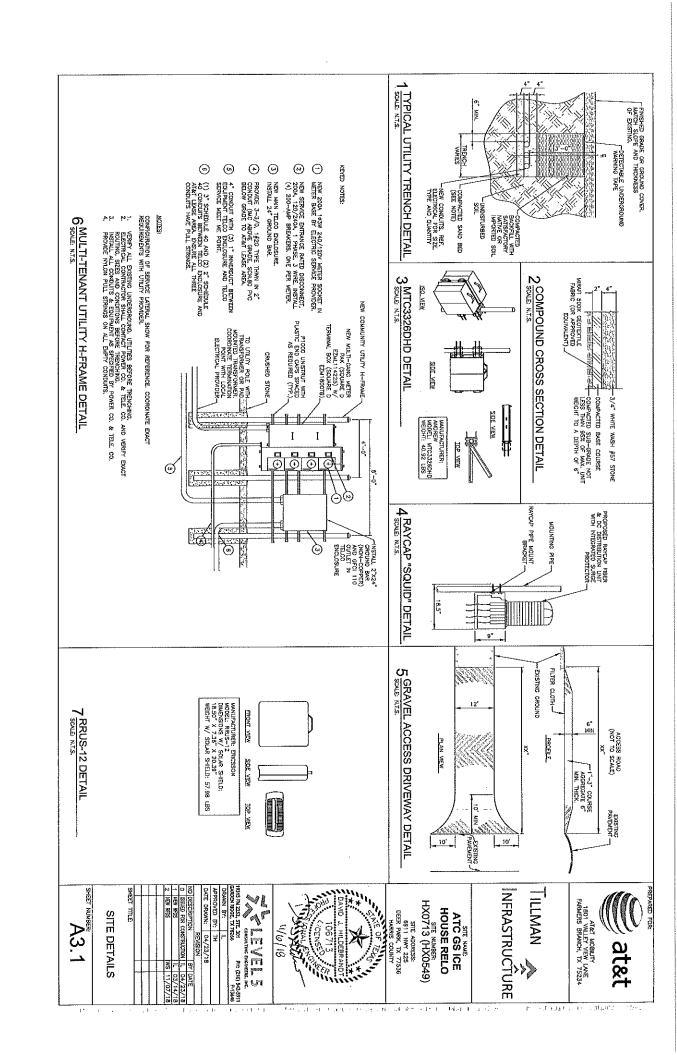
TO DRAWNS OF THE DRAWNS OF THE

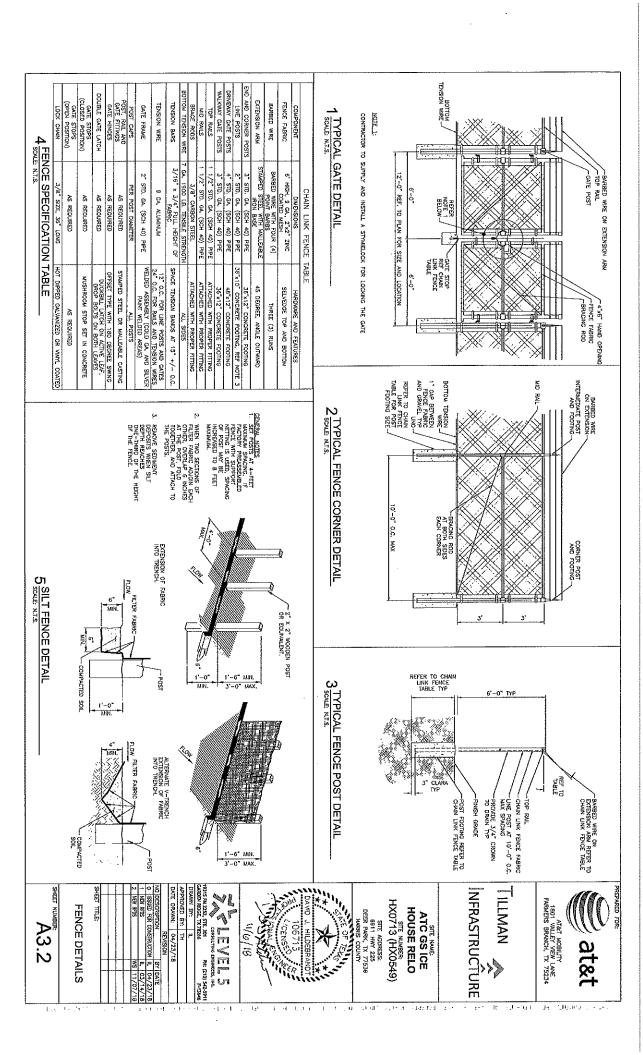
ANTENNA CONFIGURATION (SECTOR C)

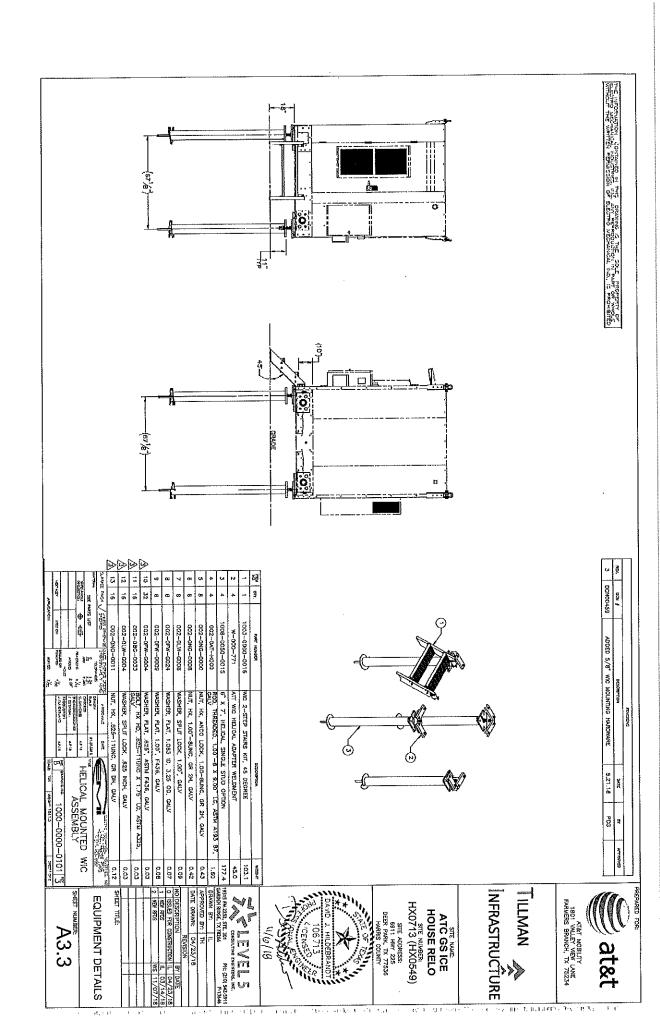
SHEET NUMBER: A2.3

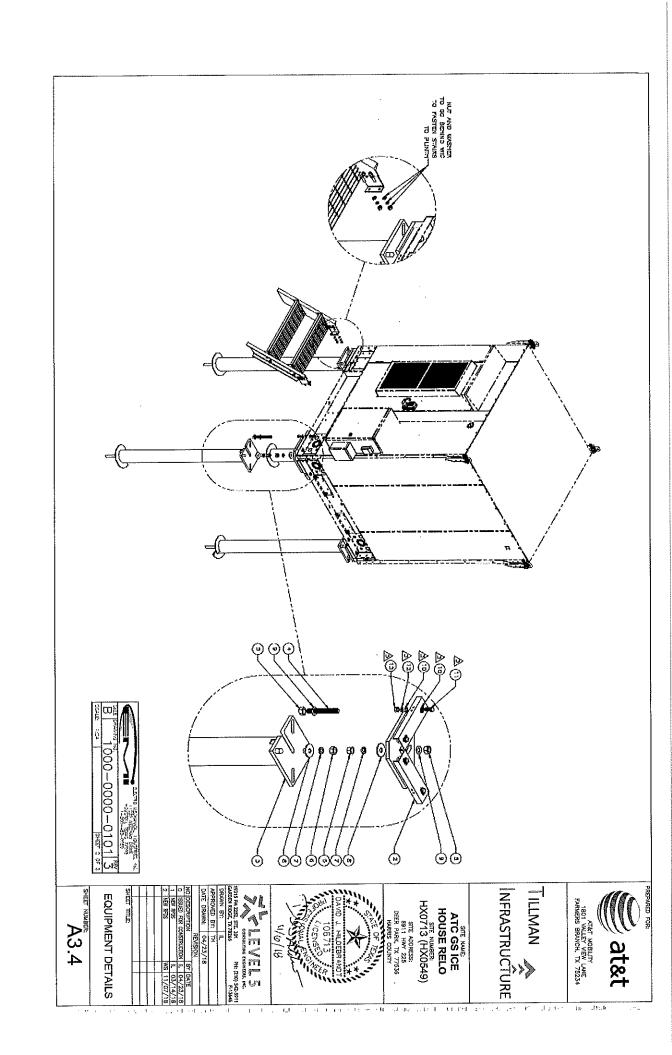


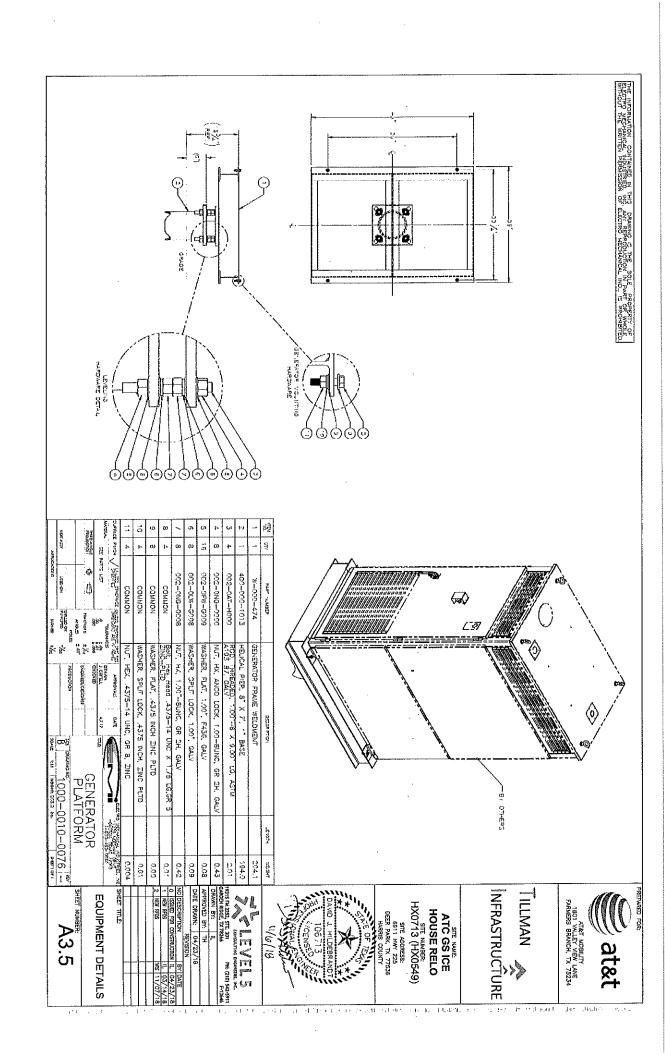


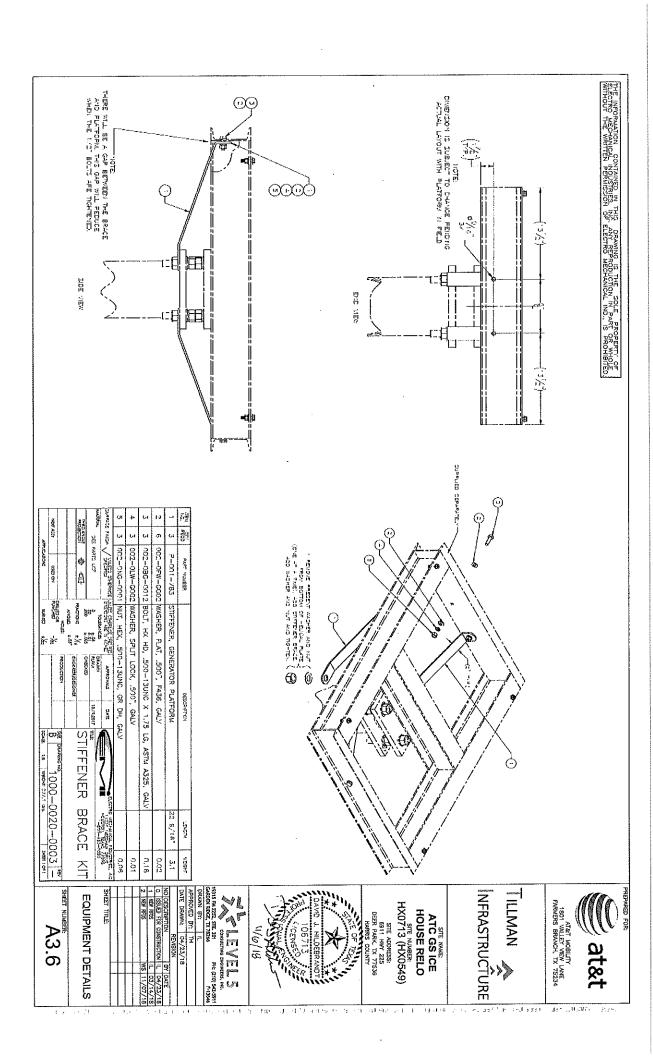










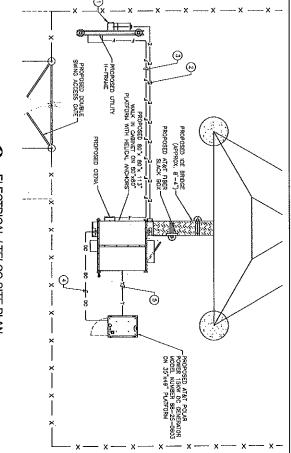


- CAL CONTRACTOR MUST COORDINATE NEW AND TELCO SERVICE WITH CM AND UTILITY FR. ROUTING, SIZES AND INSTALLATION DEPORTED BY UTILITY PROVIDER TO THE PROVIDER TO T
- CH SERVICE TO HEED PRE—PARHONED CH SERVICE STORM REPER TO STATE OF SPROME REPER TO STATE OF SPROME SHEETER TO STATE OF SPROME SHEETER SHEETER
- JUNSDOCTIÓN.

 ALL MATENAL FOR WHICH THERE IS A CATEGORY
 FOR TESTING BY UT. OR CSA SHALL BE SO TESTED,
 USTED AND LABELED.
 VENEY LOCATION OF EXISTING UTILITES PRIOR TO
 CONSTRUCTION, HAND EXCANATE AROUND EXISTING
- CONDUIT ROUTING SHOWN IS SCHEMATIC IN NATURE. CONTRACTOR TO ROUTE CONDUIT TO AVOID TRIPPING HAZARDS.

ELECTRICAL KEYED NOTES:

- Θ PROPOSED METER, COORDINATE WITH LOCAL POWER COMPANY PRIOR TO COMMENCEMENT OF WORK FOR PROVISION OF NEW SERVICE
- (0) Θ 2" SCH. 80 CONDUIT FROM METER TO WIC (APPROX LENGTH IS ±40"-0" USING ROUTE AS SHOWN). (1) 3" SCH, 40 AND (2) 2" SCH, 40 CONDUITS (APPROX. LENGTH IS ±42-0"), ENSURE ALL THREE CONDUITS HAVE PULL STRINGS.
- **(** 1" CONDUIT WITH DIRCUITS FOR OFF-SITE ALARM NOTHICATIONS (2) 3/4" AND (1) 2" CONDUIT FOR GENERATOR CIRCUITS. SEE ONE-LINE DIAGRAM FOR WIRE SIZES



INFRASTRUCTURE

STE NUMBER: HX0713 (HX0549)

SITE ADDRESS: 6911 HWY 225 DEER PARK, TX 77536 HARRIS COUNTY

ATC GS ICE HOUSE RELO

ILLMAN





DANCE CADACTY STAN	Panel Total (ya) j	CURRENT PER PHASE (A): 123	PHASE TOTALS (VA): 11940 11900
à	23640	123	6
	40	122	900
			Г
מאשמחם ביים לאואף ביים	LEGEND: C-CONTINUOUS, NC - NON CONTINUOUS	AMPS/PHASE CANNOT EXCEED MCB RATING	

11 12 13 15

Service Description: 240V, 200A 19H, 3W from Centerpoint	Transformer size: 167KVA		General Load - Wiroless Equipment + 25% 22		Lighting Load 23	Description Refe	-	Load Analysis FOR AT&T CELLSIT
rterpoint	167KVA	Total 29.39	220.14 27.93	220,44 0.96	220.42 0.5	Reference Demand Load (kVA)	NEC	N CELLSITE

3 LOAD ANALYSIS

2 PANEL SCHEDULE

MOTE, SEMANENTLY AFFIXED LABEL SHALL BE APPLIED WITH THE FAULT CHRESOT AT THE TIME OF INSTITULATION AND CALCULATION, THE LABEL SHALL BE 27X* IN SIZE AND SHALL BE BLUE LETTERNG ON A COMPRESSION OF A COMPRESSION

 \vec{z}

22,000A	AT&T Panelboard min. AIC Rating
21,291A	AFC at AT&T Equipment Panel
30 ft.	AT&T Feeder Length (min.)
#3/0	AT&T Feeder Conductors
50 ft.	Service Lateral Length (min.)
(2) Sets of #500kcmil	Service Lateral Conductors (2) Sets of #500kcmil
1,40%	Trans. Impedance (%2)
167 kva	Max Transformer Size
	Transformer
	infinite Bus from Utility
thod)	(Equivalent kVA Method)
TPH 240V	Short Circuit Calculation - 1PH 240V

4 SHORT CIRCUIT CALCULATIONS

Short Circuit Calculation - 1PH 240V [Equivalent kVA Method]	DATE OF THE CALCULATION,
--	--------------------------

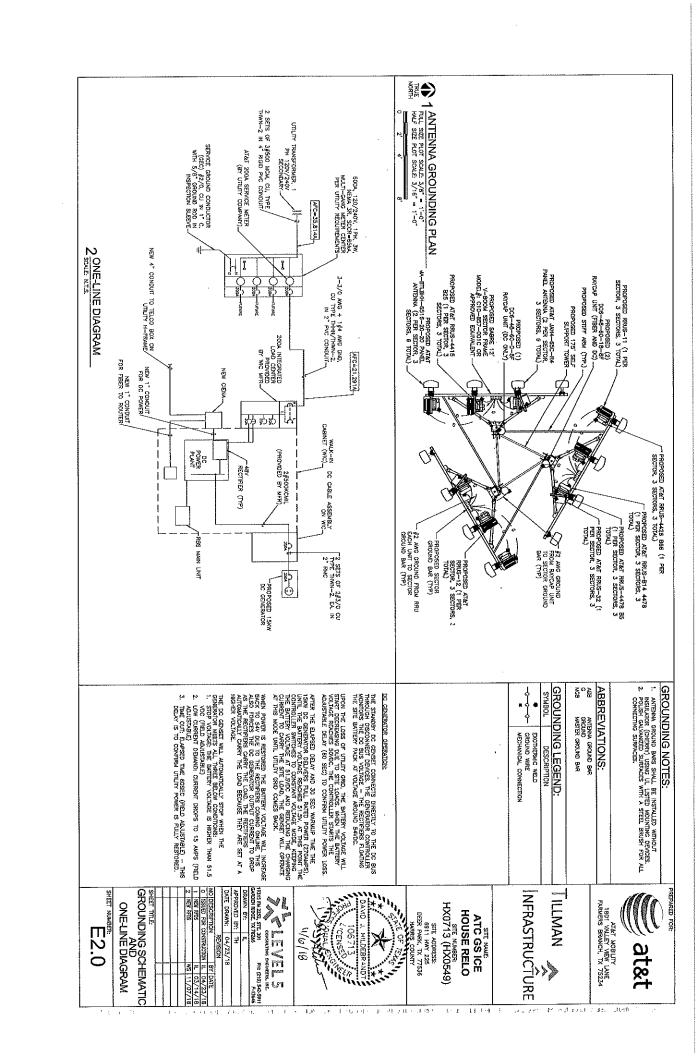
21,291A	AFC at AT&T Equipment Panel
30 ft.	AT&T Feeder Length (min.)
#3/0	AT&T Feeder Conductors
50 fc	Service Lateral Length (min.)
(2) Sets of #500kcmil	Service Lateral Conductors (2) Sets of #500kcmil
1.40%	Trans. Impedance (%2)
167 KVA	Max Transformer Size
	Transformer
	infinite Bus from Utility
thad)	(Equivalent kVA Method)
1PH 240V	Short Circuit Calculation - 1PH 240V

SHEET NUMBER: ELECTRICAL AND TELCO PLAN

SHEET TITLES

		2		0	ő		Ş	츙	ទ	£	1931			
		NEW RYDS	NEW REDS	ISSUED FOR CONSTRUCTION	DESCRIPTION	REVISION	DATE DRAWN: 04/23/18	APPROVED BY: TH	DRAWN BY: IL	GARDEN RIDGE, TX 78266	19315 FM 2252, STE. 301	CONSULTING CHGINEERS, INC.		3
		8	F	ľ	BΥ		8				폹	GHE		
		11/07/1	03/14/1	04/23/1	DATE					7-136	PH; (210) S42-59	DES. ENC.	UN.	

at&t AT&T MOBILITY 1801 VALLEY VIEW LANE FARMERS BRANCH, TX 75234



GENERAL NOTES

1. REFER TO N SHEETS FOR SITE COORDINATION REQUIREMENTS

2. COORDINATE WITH CONSTRUCTION MANAGER TO OBTAIN CURRENT
2. COORDINATE WITH CONSTRUCTION MANAGER TO OBTAIN CURRENT
2. COORDINATE WITH CONTROL OF CONTROL

. USE TINNED COPPER (SOLID) FOR EXTERIOR GROUNDING (TYPICALLY \$2.08 AS NOTED); USE STRANDED COPPER WIRE FOR GROUNDING WHERE NOT EXPOSED AND NOT IN CONTACT WITH EARTH (SEE NOTE 4 BELOW)

(0)

BUTY ALL BARE CROUND WRESS MIN 30° BELTW GRADE OR 6° BELOW FROST LINE WHOTERER IS OBENTER, LOCKER DOLCOSER THAN FOR THE PROPERTY OF THE POWER FOR MINISTER OF MANAGE INSTANCE, NO SHARP BENDS PERMITTED IN ANY WIRENG, INCLUDING GROUNDING.

GROUND RODS TO BE COPPER CLAD STEEL 5/8" DIAMETER X 8'-0" LONG SPACED MIN. OF 10' APART WITH 16' PREFERED.

PRIME AND EPOXY PAINT ALL EXPOSED CONDUIT TO MATCH EXTENDED OF EQUIPMENT BUILDING.

ELECTION. CONTRACTOR SHALL CONNECT EXTERIOR GROUNDING WIFE

SHALL MACE ALL ABOVE GROUND CONNECTIONS TO TOWER BLOSS DASS
AND WARESUNE BRIDGES AT THE THAT OF CONNECTION TO THE
TOWERS, ONE CONNECTION TO THE TOWER DASS SHALL BE
TO ROBUND BUT OF THE TOWER SHASE SHALL BE
ACCHANICAL TYPE. ALL OTHERS SHALL BE CAD WELDED, SEE NOTE 10
BELOW.

O. CAVEENELD ALL CONNECTIONS WHERE POSSIBLE AT TOWER OR

COMPEND FORMS FOR MALE ADDRESSED AGAINST AND SUPPORT ALL
WIRNOR SUCH THAT IT WILL NOT VIBRATE/FOR AGAINST OTHER
WORNER SUCH THAT IT WILL NOT VIBRATE/FOR AGAINST OTHER
(NOMINAL PAULIS & MINS)

10. CADENED ALL CONNECTIONS WHERE POSSIBLE AT TOWER OR PERMISSIBLE TO MECHANICALLY BOLT A BUSS BAR TO GROUND OR TO SUPPORT STRUCTURE.

IT: THE RESIGNANCE BETWEEN MY POINT ON THE GROUND SYSTEM AND
INTERENCE GROUND SMULL BE IS OMES OR LESS NOTIFY
CONSTRUCTION MANAGER IMMEDIATELY IF THIS IS NOT POSSIBLE DUE
TO SOULD CONDITIONS FOR ALTERNATIVES.
TO SOULD CONDITIONS FOR ALTERNATIVES.
TO SHOW OFF CALLWAIZING IN AFFECTED AREA, EXCITHERMICALLY WELD \$2
CONDUCTION AT IS INCHESS ABOVE GRACE ON FOUNDATION, WHICHEVER
IS MODER. COLD-GALV AFTER. EXCITHERMICALLY WELD OTHER END TO
GROUND.

13. GROUND CONDUCTORS ON EXTERIOR WALL OF SHELTER SHALL BE ENCASED IN 3/4" PMC CONDUCT TO GRADE. MOUNT PMC WITH GALVANIZED "C" CLAMPS, SEAL TOP ENGS.

14, FOLLOWING COMPLETION OF WORK, CONDUCT GROUND TEST. SUBMIT WRITTEN TEST TO CONSTRUCTION MANAGER AND PROJECT MANAGER.

15, ALL GROUNDING SHALL BE IN ACCORDANCE WITH AT&T'S GROUNDING AND BONDING STANDARDS FOR CELL STIES, ALL TESTING SHALL BE CONDUCTED FOR AT&T STANDARDS AND COMETY WITH ALL STATE AND LOCAL CODES, AND THE NATIONAL ELECTRICAL CODE (NEC).

16. UNLESS NOTED OTHERWISE, ALL GROUNDING CONNECTIONS SHALL BE MADE BY AN EXCITHERMIC WELD.

17. NOTIFY THE CONSTRUCTION MANAGER 24 HOURS IN ADVANCE WHEN THE SURED GROUND RING IS INSTALLED SO THAT A REPRESENTATIVE CAN INSPECT THE GROUND RING BEFORE IT IS BACKFILLED WITH SOIL.

SYMBOL DESCRIPTION SYMBOL DESCRIPTION CONTREMAN WILD CONTREMAN WILD MECHANICAL CONNECTION SO GROWND TOO NEFFCTION SLEPG NEFFCTION SLEPG NEFFCTION SLEPG

E2.1

GROUNDING PLAN

DATE DRAWN:

RIPTION BY DATE
D FOR CONSTRUCTION IL 04/23
PRIS IL 03/14
PRIS WS 11/07

115 PM 2252, STE 301 RDEN RIDGE, TX 79266

PH: (210) 542-5911 F-13646

CONSULTING ENGINEERS, INC.

TREASE

81/0/13

106715 CCENSSO

GROUNDING_KEYED_NOIES: >ROVIDE A #2 AWG TINNED COF

Θ

PROVIDE A #2 AMC TRINED CIPPER GROUND RING IN ACCORDANCE MITH MITOMAL AND LOCK CODES AND TAKET STANDARDS. SEVERE WIC GROUND RING, HALO GROUND, AND ICE BRODGE ARE BONDED TO TOWERS GROUND RING WITH TWO LEAUS, EXCHEDNAC WELDS, AND APPROPRIATE INSPECTION WELLS.

mat&t

AT&T MOBILITY
1801 VALLEY VIEW LANE
FARMERS BRANCH, TX 75234

NFRASTRUCTURE

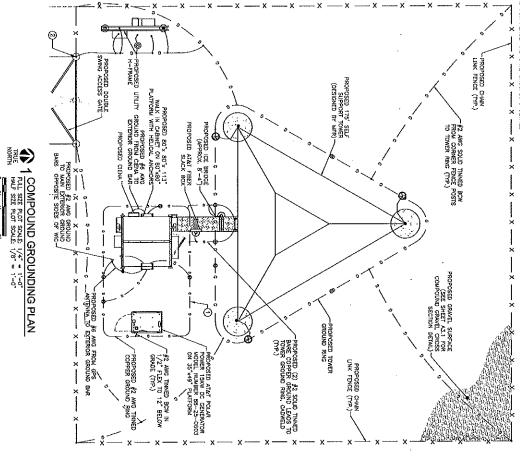
HX0713 (HX0549)

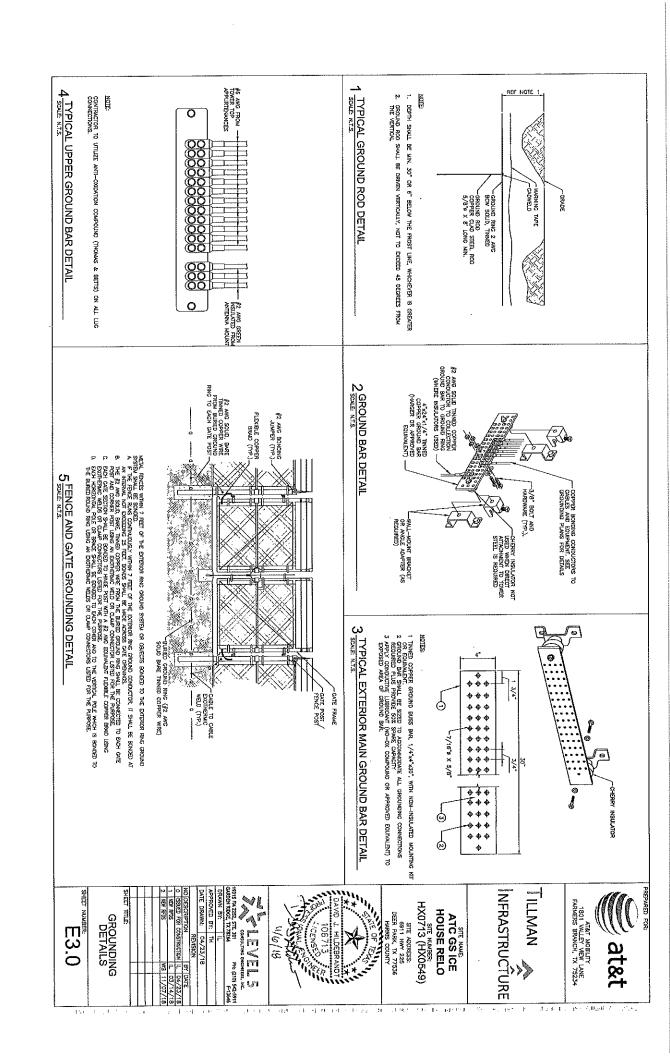
ATC GS ICE HOUSE RELO

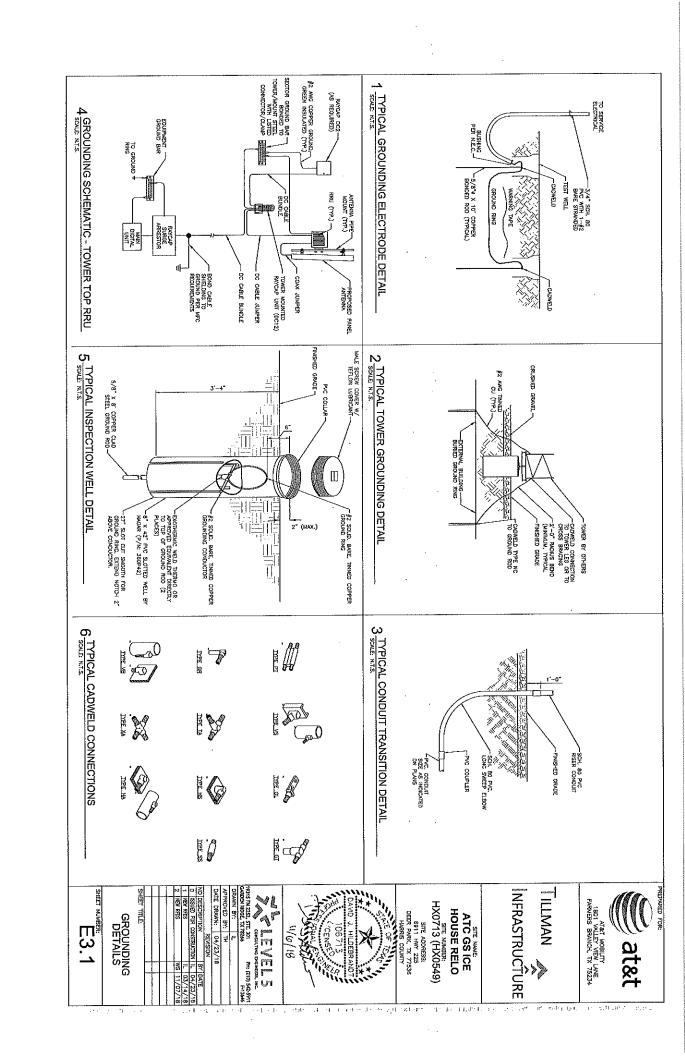
BEER PARK, TX 77836
HARRIS COUNTY
SANE OF TO A

ILLMAN









DIVISION 16 ELECTRICAL SPECIFICATIONS

15000 SCOPE OF WORK:

1. THE REQUIREMENTS PRESENTED IN THESE SPECIFICATIONS PERTAIN TO ELECTRICAL INSTILLATION OF A COMPLETELY NEW POWER RACEMY SYSTEM FOR THE ATASI WREELESS INSTILLATION OF THE EXTENT REQUIRED FOR THESE COMPLETE ATASI WREELESS INSTILLATION OF THE EXTENT REQUIREMENT OF THESE COMPLETE ATASI WORKERS FOR THE PRODUCT OF THESE COMPLETE ATASIANCE ATASIANCE OF THE STEELES OF THE STEELES.

15001 GENERAL:

IT IS THE INTENTION OF THESE SPECIFICATIONS AND THE RELATED PLANS TO SHOW COMPLETE. PROPERLY FUNCTIONING SYSTEMS, ALL SYSTEMS, WIRBNG AND PACEMYS SHALL BUSTALLED PER NEPA-70 (APPLICABLE) AND ALTHORITY HAVING JURISDICTION.

15002_SPECIAL_CONDITIONS_FOR_ELECTRICAL_WORK:

PLANS AND DETAILS ARE DIAGRAMMATIC IN NATURE. COORDINATE THE THOM OF ITEMS NOT CLEARLY DIMENSIONED WITH THE CONSTRUCTION RIVIENDENT.

ALL NECESSARY PERMITS, LICENSES AND INSPECTIONS AND PAY ALL DIFEST THAT WAY BE REQUIRED. THE TOOK SHALL INCLUDE THE FINAL INSPECTION CERTIFICATE IN FINAL.

: CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING THE EXISTING SITE (BY APPOINTMENT) AT ANY REASONABLE

TITUTY CONNECTIONS SHOWN ON THE SITE ARE APPROXIMATE AND INSECTIONS SHOWN ON THE SITE APPROXIMATE AND INSECTIONS ON THE CONSECTIONS AND EXACT THAT THE CONTRACTION AND EXACT THE CONTRACT THE CONTRACT THE CONTRACT OF A CONTRACT

11. AFTER COMPLETION OF THE WORK AND BEFORE RIVAL INSPECTION, THE CONTRACTOR 1. SHALL THOROUGHLY CLEAR AND EXCHED PROVICE, PIECE PETCHINART AND FIXURE TO THE SATISFACTION OF THE CONSTRUCTION SUPERINTENDOM.

12. THE CONTRACTOR SHALL SIGNED BEACH TO THE BRIGHT OF THE CONSTRUCTION OF THE CONSTRUCTION OF THE CONSTRUCTION OF THE CONSTRUCTION OF THE THE PIECE THE CONTRACTOR TO RECORD AND THE CONTRACTOR OF THE C

12.

7

13. THE CONTRACTOR SHALL NEGRONAL PERFORMED LINDER THIS CONTRACTIC SHALL REFERENCE TO THE CONTRACTOR SHALL REFERENCE TO THE CONTRACTOR SHALL RESPOND TO RECUESTS FOR SERVICE IN A THEOLY MANNER ADMINISTRATION TO THE CONTRACTOR SHALL RESPOND TO RECUESTS FOR SERVICE IN A THEOLY MANNER PROPRIED TO THE CONTRACTOR SHALL RESPOND TO RECUESTS FOR SERVICE IN A THEOLY MANNER PROPRIED TO SHOW THE ACTUAL CONTROL OF CONSTRUCTION LOCATIONS OF THE DESTRUCTION AND THE CONTRACTOR SHALL RESPOND TO SHOW THE ACTUAL CONTROL OF CONSTRUCTION CONTROL OF THE RECORD DAMPHIS OF STRUES SHALL FORWARD A REPRODUCIBLE COPP OF THE SECOND DAMPHIS STALL FORWARD A REPRODUCIBLE COPP OF THE SECOND DAMPHIS STALL FORWARD A REPRODUCIBLE COPP OF THE SECOND DAMPHIS STALL FORWARD A REPRODUCIBLE COPP OF THE SECOND DAMPHIS STALL FORWARD A REPRODUCIBLE COPP OF THE SECOND DAMPHIS STALL FORWARD A REPRODUCIBLE COPP OF THE SECOND DAMPHIS STALL FORWARD A REPRODUCIBLE COPP OF THE SECOND DAMPHIS STALL FORWARD A REPRODUCIBLE COPP OF THE SECOND DAMPHIS FOR USE DURING THE SECOND DAMPHIS FOR USE DURING THIS STALL FORWARD THE SECOND DAMPHIS THE CONTRACTOR SHALL FORWARD THE MOST THE DATES OF BEDINNING TO COLUMNING THE WORKS THE COLUMNING THE WORKS THE DATES OF BEDINNING THE WORKS THE WOR ŗ,

WRITTEN INSTALLATION INSTRUCTIONS FOR EQUIPMENT INSTALLED ON THE PROJECT.

THEE SITS OF CUIT SHEETS FOR EACH PIECE OF EQUIPMENT INSTALLED ON THE CONTRIBUTION OF COLUMNIC MANAGEMENT DATA AND DEAMINGS USED DURING CONSTRUCTION.

ANTERNALS SHALL BE NEW AND DE COLUMNIC TONOR COLUMNIC TO COLUMNIC TONOR COLUMNIC TONOR COLUMNIC TONOR COLUMNIC TONOR COLUMNIC TO COLUMNIC TONOR COLUMNIC TO COLUMNIC TO COLUMNIC TO COLUM

PRODUCTS OF VARRUIS MATERIALS AND EXHIPMENT ARE SPECIFED, IN ORDER TO STRUKELY A STANDARD OF CHAINTY AND A BEST OF DISWO, OTHER SHAME ANTERIALS HAY WE ACCEPTABLE AS SHESTITIONS PROVIDED THEY MEET THE SHAME STANDARDS OF CHAINTY AND DESIGN CHETCHEA IN THE CHOINEST FOR CHAINTEN PROVIDED THE CHOINEST FOR CHOINCAST HAVE SEALLY SHALL BE SHAMED RECARDING OF THE CHOINEST REPORT OF THE CHOINEST FOR CHOINCAST HOUSE FINAL THE CONTRACTOR SHALL BEAR ALL COSTS DISCUSSION CHAINTY SHALL BE FINAL THE CONTRACTOR SHALL BEAR ALL COSTS NICLUS THAT OF THE THROUGH SHOT THE DESIGN THAT ASSOCIATED WITH ACCOMMODATIONS FOR PERMITTED SUBSTITUTIONS. WITERIALS SHILL BE NEW AND OF DOMESTIC, OR IF APPROVED, NATA INFORMATION OF THE SAME TYPE ON THE PAPROVED, NATA DELINATIONS OF MANUALS OF THE SAME TYPE ON THE SPECIFIED IN ORDER TO MALES OF COMMUNICATIONS OF CO

16123 WIRE AND CABLE:

1. ALL WIRE AND CASLE SHALL BE COPPER OF AT LEAST 98% CONDUCTIVITY.

2. ALL INSULATION SHALL BE TYPE THAW DOCKET TYPE THAW MAY BE USED FOR SIZES LARGET THAN \$6 AMC.

3. NO WIFE SMALLER THAN \$6 AMC.

3. NO WIFE SMALLER THAN \$12 AMC MAY BE USED EXCEPT THAT CONTROL CONTROL CONTROL CONTROL OF COLOR COMMON SHALL BE MANTANED, THE STANDARD, THE FOLLOWING SHALL BE WANTANED, THE STANDARD, THE SECOND CONTROL CONTROL CONTROL SHALL BE WANTANED, THE STANDARD, THE SECOND CONTROL SHALL BE USED FOR MY SIZES LAGGET THAN \$6. DOWER DESTRUCTION BLOCKS MAY BE USED FOR MY SIZES LOUGHOUS FOR WHICH IT IS LISTED.

5. WIRE CONDUCTOR FOR WHICH IT IS LISTED.

5. WILL SIZED WAS BE PULLING LUBRICANT SHALL BE USED ON ALL RACEMAY INSTRULATIONS.

16130 RACEWAY SYSTEMS:

ALL WIRING JAPONE GRADE OR OTHERWISE EXPOSED SHALL BE IN METALLIC CONDUIT. THE ME CABLE OR THE DIRECT CONDUIT HAY NOT BE USED WILESS SHOWN OR REQUIRED BY THESE SPECIFICATIONS SHIT, GALWANDED INTERHEDIATE AND REID CONDUIT ARE ALL CEPTIAGLE WIRING MATERIALS FOR BOTHE GRADE PROVIDED THEY ARE ACCEPTAGLE TO LOCAL COME EMPOREMENT.
ALL FITTINGS SHALL BE COMPRESSION TIPE OR SCREW TIPE AND MAY NOT BE DIE COST SET SCREW.

3. CONDUTT BELOW SOADE SHALL BE SCHEDULE 40 PMC WITH ANTONING FITHINGS SECRET THAT ELEMENT AND CHRITICAL CONDUITS IN CONTACT WITH DEER WHICK ARE UNCELLOR TO BE TANABLE OF TO CESSOR FALLING POOPE TENSION WAY BE PARKED TO THE TANABLE OF THE CONTROL THE CONTROL OF THE CONTROL OF

AT&T MOBILITY 1801 VALLEY VIEW LANE FARMERS BRANCH, TX 75234

197 (1120) 0

15250 GROUNDING:

ALL EQUIPMENT AND SERVICE DITENACE ORCHINONG SMALL BE PER NF7A-70 CUREAN EDITON SO ADOPTED BY LOCAL MITHORITY HAWAS UNESCUCIFION VOI HIS PROMET, BEH ANTOLE 250 AS WELL AS OTHER APPLICABLE STANDARDS SHOW AS THE MATCHE SECTION OF MEAN 780 (LIGHTNING PROTECTION) AND AZET WIRELESSSTANDARDS ON EQUIPMENT GROUNDING.

16400 WIRING DEVICES: ALL WIRMO DENOES SHALL BE SPECIFIED GRADE RATED AT 20 AMPS,
PROMEE EDRINGS AS SHOWN ON DOCUMENTS, CONSULT WITH CONSTRUCTION
MANAGER AND OTHER TRADES FOR EXACT LOWICKS OF CUTTLES, WHERE CATLETS
SERVE A SPECIFIC PECE OF EQUIPMENT AND WHERE POSSIBLE, CONCEAL OUTLET
BEHNO THAT EQUIPMENT.

NFRASTRUCTURE

ILLMAN

18500 PANEL BOARDS: PROVIDED BY ATAT WIRELESS OR CONTRACTOR (VERIEY BEFORE BIDDING) AND INSTALLED BY THIS CONTRACTOR.

VERIFY THAT THE INTERRUPTING RATING OF CIRCUIT BREAKERS SHALL BE GREATER THAN THE AVAILABLE FAULT CURRENT WITH

THE SERVING ELECTRICAL UTILITY.

PROVIDE SOLD NEUTRALS ON ALL PARELS AND MAIN SERVICE ENTRANCE DISCONNECT (IF MAIN SERVICE DISCONNECT REQUIRED).

PROVIDE I'S BLOCK MICKARY TAGS WITH 1/2" WHITE LETTERS FOR EACH PAVEL BOARD AND DISCONNECT MATCHING PROLECT DOCUMENTATION. TAGS SHALL BE "FOP—RNETTED" THROUGH PAVEL COMER.

16600 LIGHTING FIXTURES (IF SHOWN):

PROVIDE LOSTING PRITIESS AS SHOWN ON THE DOCUMENTS, QUESTIONS ON LIGHT PXYMET TYPES SHALL BE DIRECTLD TO MAKE MIRECUSS FOR CHAPICATION, IT HER CONTRACTIOS SHALL BE DIRECTLD TO MAKE PROVIDE BUT ALL PRIVATE PROVIDE BUT ALL PROVIDE BUT ALL PROVIDES HAVE PROVIDED BY THE THE CONTRACT THE MAKE AND SHAPER RECOMMENDED BY THE PLANS AND SPECIFICATION AT THE TIME OF THE ALL PROFIDED BY THE PLANS AND SPECIFICATION AT THE TIME OF THE PLANS SHALL BE CLEAN AND FULLY OPERATIONAL AT THE TIME OF THE PLANS SHALL BE CLEAN AND FULLY OPERATIONAL AT THE TIME OF TIME.

15700 EQUIPMENT CONNECTIONS:

PROVIDE ELECTRICAL POWER AND LIGHTING CONNECTIONS FOR ALL EQUIPMENT ON THE PROLECT WHETHER PURNISHED BY THIS CONTRACTION ON OTHERS. TO DETERMINE CAREFULLY RESEARCH THE DOCUMENTS AND CONSULT WITH OTHERS TO DETERMINE THE REQUIREMENTS FOR CONNECTIONS.

<u>1990 SPECIAL MODULAR CELL INSTALLATION GROLINDING INTEGRITY AND IMPEDANCE ISSING.</u>

CONTRACTOR SHALL PRESENT MEASUREMENTS SHOWING CERTRIED THIRD PARTY GROUND INFEDENCE TESTING AS RECURRED BY THE CONTRACT DOCUMENTATION TESTING PET ANSI/REE STD 81-1983, IEEE GUIDE FOR MEASURING EARTH RESISTRETY SHALL BE AS APPROPED BY ARET MIRELESS CONSTRUCTION MANAGEMENT.

2

BY DATE N IL 04/23/18 IL 03/14/18 WS 11/07/18

2. THIS INSTALLATION SHALL BE GROUNDED WITH AN INTEGRATED (MULTI-POINT) FOR CHANNING SYSTEM.

3. SURSE PROTECTION STAML BE ART WIRELESS APPROVED EQUIPMENT. IT SHALL BE ART WIRELESS APPROVED EQUIPMENT IN SHALL BE ART WIRELESS APPROVED EQUIPMENT IN STALLATION OF THE ART WIRELESS COLSTREAMS OF THE ART OF THE A

STE NUMBER: HX0713 (HX0549) **HOUSE RELO** ATC GS ICE



2	1	0	NO		DATE	Ą	뫄	1931 GARI		
NEW PRIS	NEW RFDS	ISSUED FOR CO	DESCRIPTION		TE DRAWN:	PPROVED BY:	RAWN 8Y:	19315 PM 2252, STE. GARDEN RIDGE, TX 71	A 10 11	-
		CONSTRUCTION		REVISION	04/23/18	코	IL.	K 78266	STITUTE EN	
¥S.	=	٣	ą				i	1 1	\$ 1771 5 person	l
11/02	03/14	04/23	BATE					PH: (230) 542 F-1	3 13 11 7 13 11	

ELECTRO	THE:
ξΩ.	ı
5	

SPECIFICATIONS

E4.0