



PTN: 3012A0LJZ6
PACE: MRNTX048646

SCIP ID: 28730-008B
STRUCTURE TYPE: ONCOR WOOD UTILITY POLE
SITE ADDRESS: 821 BLUERIDGE TRAIL
SAGINAW, TX 76179

PREPARED FOR:



at&t

AT&T MOBILITY
9051 PARK W DR,
HOUSTON, TX 77063



NTPWIRELESS®

EVERY SITE, EVERY DAY

NTP WIRELESS
11011 RICHMOND AVENUE, SUITE 980
HOUSTON TX, 77042



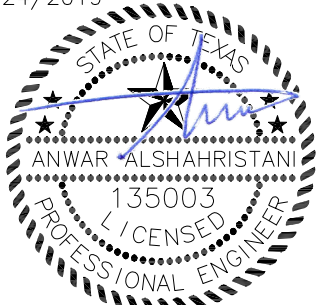
KGP Co

CORPORATE OFFICE
3305 HIGHWAY 60 WEST
FARIBAULT, MN 55021
507-334-2268

SCIP ID:
28730-008B

SITE ADDRESS:
821 BLUERIDGE TRAIL
SAGINAW, TX 76179
TARRANT COUNTY

9/24/2019





LEVEL 5

CONSULTING ENGINEERS, INC.

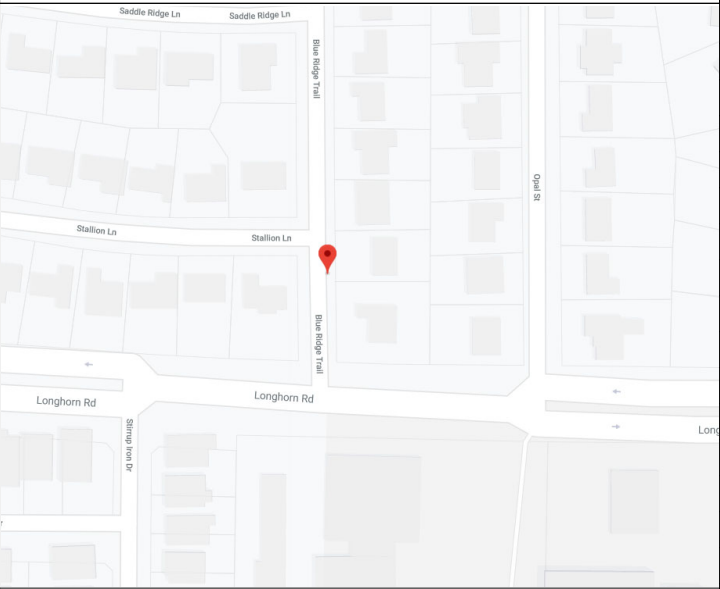
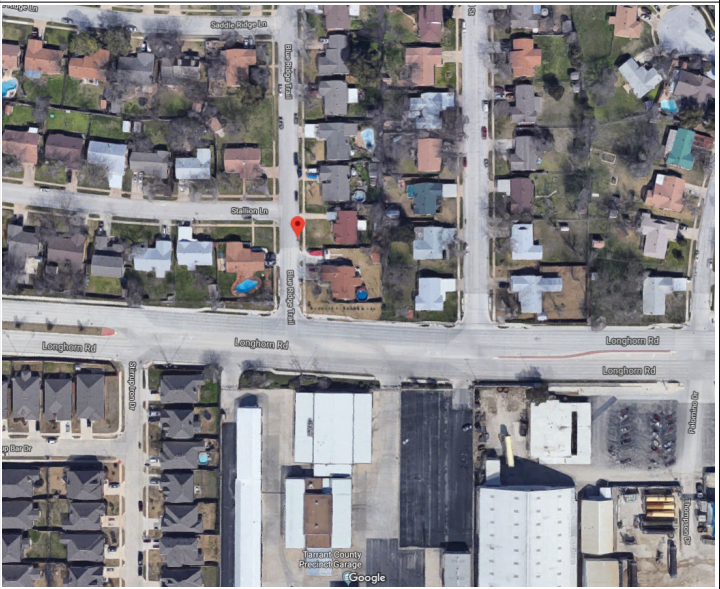
19315 FM 2252, STE. 301
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PH: (210) 542-5911
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DRAWN BY:	LC		
APPROVED BY:	TH		
DATE DRAWN:	09/23/19		
REVISION			
NO	DESCRIPTION	BY	DATE
0	ISSUED FOR CONSTRUCTION	LC	09/18/19

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
T1.0

PROJECT INFORMATION	DRIVING DIRECTIONS	VICINITY MAP	SHEET INDEX
SCIP ID: 28730-008B ADDRESS: 821 BLUERIDGE TRAIL SAGINAW, TX 76179 LATITUDE: 32.848314° LONGITUDE: -97.370292° GROUND ELEVATION: 728' AMSL JURISDICTION: CITY OF SAGINAW STRUCTURE TYPE: ONCOR WOOD UTILITY POLE	DALLAS/FORT WORTH INTERNATIONAL AIRPORT: TAKE TX-114 W, TX-121, TEXAS 121 EXPRESS/TEXAS 183 TEXPRESS AND I-820 W TO US-287 BUS N/N MAIN ST IN FORT WORTH. TAKE EXIT 13 FROM I-820 W., FOLLOW US-287 BUS N/N MAIN ST AND LONGHORN RD TO BLUE RIDGE TRAIL., MERGE ONTO US-287 BUS N/N MAIN ST., USE THE LEFT 2 LANES TO TURN LEFT ONTO LONGHORN RD., TURN RIGHT ONTO BLUE RIDGE TRAIL., DESTINATION WILL BE ON THE RIGHT.		SITE GENERAL ARRANGEMENT PLANS T1.0 COVER SHEET N1.0 GENERAL NOTES N2.0 GENERAL NOTES C0.0 OVERALL AREA PLAN C1.0 PLAN VIEW C2.0 POLE ELEVATIONS C2.1 SMALL CELL ONE LINE SCHEMATIC C2.2 PHOTOSIMS C2.3 PHOTOSIMS C3.0 ANTENNA DETAILS C3.1 ANTENNA MOUNT DETAILS C3.2 RADIO DETAILS C3.3 METER BASE DETAIL C3.4 LOAD CENTER DETAIL C3.5 RISER DIAGRAMS C3.6 GROUNDING & AT&T WARNING SIGNS TR1.0 TRAFFIC CONTROL PLAN TR2.0 TRAFFIC CONTROL PLAN
SCOPE OF WORK	CONTACTS	AERIAL MAP	
THE WIRELESS COMMUNICATIONS FACILITY IS NOT INTENDED FOR HUMAN OCCUPANCY 1. REPLACEMENT OF (1) EXISTING WOODEN POLE WITH (1) NEW CLASS 3, 40' WOOD POLE IN EXISTING R.O.W. 2. INSTALLATION OF (2) RRUS-2203 1900MHZ 3. INSTALLATION OF (2) RRUS-2205 LAA 4. INSTALLATION OF (1) OMNI ANTENNA	APPLICANT: AT&T MOBILITY 9051 PARK W DR, HOUSTON, TX 77063 PROPERTY OWNER: PUBLIC RIGHT OF WAY STRUCTURE OWNER: ONCOR PROJECT MANAGER: NTP WIRELESS 11011 RICHMOND AVENUE, SUITE 980 HOUSTON TX, 77042 ARCHITECT/ENGINEER: LEVEL 5 CONSULTING ENGINEERS 19315 FM 2252, SUITE 301 GARDEN RIDGE, TX 78266 CONTACT: TONY HUEBEL PHONE: 210-542-5911 FIBER COMPANY: TO BE DETERMINED POWER COMPANY: ONCOR ELECTRIC PHONE: 817-215-5037		
APPLICABLE CODES & STANDARDS		SITE ACCESS PROCEDURES	
- INTERNATIONAL BUILDING CODE, 2015 EDITION AS ADOPTED BY LOCAL JURISDICTION. - NATIONAL ELECTRICAL CODE, 2017 EDITION AS ADOPTED BY LOCAL JURISDICTION. - INTERNATIONAL MECHANICAL CODE, 2015 EDITION AS ADOPTED BY LOCAL JURISDICTION. - INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION AS ADOPTED BY LOCAL JURISDICTION			



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GENERAL CONSTRUCTION

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR –
CONTRACTOR: (CONSTRUCTION)
OWNER – AT&T
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER’S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR’S EXPENSE TO THE SATISFACTION OF THE OWNER.
17. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2–A OT 2–A:10–B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION 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 SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.

24. THE AREAS OF THE OWNER’S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
25. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE–APPROVED BY THE LOCAL JURISDICTION.
28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
30. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS–BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
31. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
32. STRUCTURE IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
33. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
34. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD “TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES” AND “TECHNICAL SPECIFICATION FOR FACILITY GROUNDING”. IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
35. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
36. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
37. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
38. ALL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER’S INSTRUCTIONS AND RECOMMENDATIONS.

ANTENNA MOUNTING

41. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA–222 OR APPLICABLE LOCAL CODES.
42. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 “ZINC (HOT–DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS”, UNLESS NOTED OTHERWISE.
43. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 “ZINC–COATING (HOT–DIP) ON IRON AND STEEL HARDWARE”, UNLESS NOTED OTHERWISE.
44. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
45. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER’S RECOMMENDATIONS.
46. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER’S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
47. NOT USED.
48. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/- 5% AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN +/- 0.5% AS DEFINED BY THE RFDS. REFER TO ND–00246.

TORQUE REQUIREMENTS

49. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
50. ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION.
A. RF CONNECTION BOTH SIDES OF THE CONNECTOR.
B. GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE.
EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL.

PREPARED FOR:



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LEVEL 5
CONSULTING ENGINEERS, INC.

19315 FM 2252, STE. 301
GARDEN RIDGE, TX 78266

PH: (210) 542-5911
F-13646

DRAWN BY:	LC
APPROVED BY:	TH
DATE DRAWN:	09/23/19
REVISION	
NO DESCRIPTION	BY DATE
0 ISSUED FOR CONSTRUCTION	LC 09/18/19

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GENERAL NOTES

SHEET NUMBER:

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55. ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB–FT (12 NM).
56. ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB–FT (58 NM).
57. ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING HARDWARE IS NO LONGER LOOSE.
58. ALL DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18–22 LB–FT (24.4 – 29.8 NM).
59. ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15–20 LB–IN (1.7 – 2.3 NM).
- COAXIAL CABLE NOTES
60. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
62. CONTRACTOR SHALL VERIFY THE DOWN–TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.
63. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND–00027 LATEST VERSION.

- COAXIAL CABLE NOTES
64. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUAL LENGTH BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
65. CONTRACTOR SHALL VERIFY THE DOWN–TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.
66. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND–00027 LATEST VERSION.
67. ALL JUMPERS TO THE ANTENNAS SHALL BE 1/2" DIA. LDF AND SHALL NOT EXCEED 6’–0”.
68. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4’–0” OC.
69. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER’S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, CONNECTORS, ANTENNAS, AND ALL OTHER EQUIPMENT.
70. CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCORDANCE WITH AT&T STANDARDS.

GENERAL CABLE AND EQUIPMENT NOTES

71. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.
72. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER MANUFACTURER’S RECOMMENDATIONS.
73. CONTRACTOR SHALL REFERENCE THE STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
74. ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE–HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED.
75. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:

A. TEMPERATURE SHALL BE ABOVE 50° F.

B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.

C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.

D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.
76. ALL PROPOSED GROUND BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4’–0” BELOW GROUND BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.
77. ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER MANUFACTURER’S SPECIFICATION & RECOMMENDATIONS.

ROW STAND ALONE CONSTRUCTION NOTES

78. NO BOLT THREADS TO PROTRUDE MORE THAN 1–1/2” [.038M].
79. 90 SHORT SWEEPS UNDER ANTENNA ARM. ALL CABLES MUST ONLY TRANSITION ON THE INSIDE OR BOTTOM OF ARMS (NO CABLE ON TOP OF ARMS).
80. USE 90 CONNECTOR AT CABLE CONNECTION TO ANTENNAS.

81. PLACE GPS ON ARM WITH SOUTHERN SKY EXPOSURE AT MINIMUM 6’ [1.83] FROM TRANSMIT ANTENNA, WHICH IS 24” [.61M] AWAY FROM CENTER OF POLE.
82. USE 1/2” [.013M] CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
83. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

DISCONNECT, METER, AND ANTENNA BOXES MUST BE INSTALLED IN ACCORDANCE WITH CONSTRUCTION STANDARD 103–235, "SUPPLY AND COMMUNICATION EQUIPMENT"

SEE AEP STANDARD SHEETS 103–106, 103–115, AND 103–116 FOR ADDITIONAL REQUIREMENTS.

THE DESIGN AND MOUNTING REQUIREMENTS OF ALL ANTENNAS MUST BE APPROVED BY AEP ELECTRIC DELIVERY–DISTRIBUTION STANDARDS PRIOR TO INSTALLATION.

ANTENNAS SHALL BE INSTALLED ON TANGENT POLES ONLY. ANTENNAS SHALL NOT BE INSTALLED ON EQUIPMENT POLES. ALL POLES MUST BE BUCKET TRUCK ACCESSIBLE.

THE MINIMUM SIZE OF ALL ANTENNA POLE WILL BE ANSI CLASS 3.

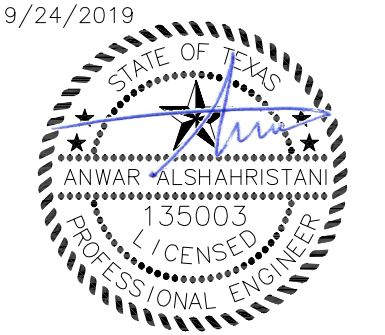
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- NOTES:
1. SITE PLAN DRAWN FROM AERIAL IMAGE.
 2. ANY UTILITY LOCATIONS SHOWN ARE REPRESENTATIVE IN NATURE. CONTRACTOR SHALL USE EXTREME CAUTION WHEN INSTALLING / REPLACING POLE AND RUNNING ANY POWER / FIBER CONDUITS.
 3. CONTRACTOR SHALL CALL FOR UTILITY LOCATES AND FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES.
 4. ALL CONDUITS SHALL MAINTAIN MIN. 24" CLEARANCE FROM EXISTING UTILITY CONDUITS.
 5. CONTRACTOR MUST VERIFY THE INFORMATION SHOWN AND FIELD LOCATE EXISTING UTILITIES SUCH AS ELECTRIC, GAS, WATER, SEWER AND TELCO PRIOR TO COMMENCEMENT OF WORK. IF ANY CONFLICTS ARE OBSERVED, CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY.

LEGEND			
WL	WATER LINE	UGE	UNDER GROUND POWER
STL	STORM LINE	UGT	UNDER GROUND TELCO
SL	SEWER LINE	ROW	RIGHT OF WAY
EOP	EDGE OF PAVEMENT	CL	ROAD CENTERLINE
SIGNAGE		BOC	BACK OF CURB
GAS	GAS	FOC	FACE OF CURB
WOOD POLE		OT	OVERHEAD TELCO
PROPERTY LINE		OE	OVERHEAD ELECTRIC



1 OVERALL SITE PLAN
FULL SIZE PLOT SCALE: 1" = 20'
HALF SIZE PLOT SCALE: 1" = 40'

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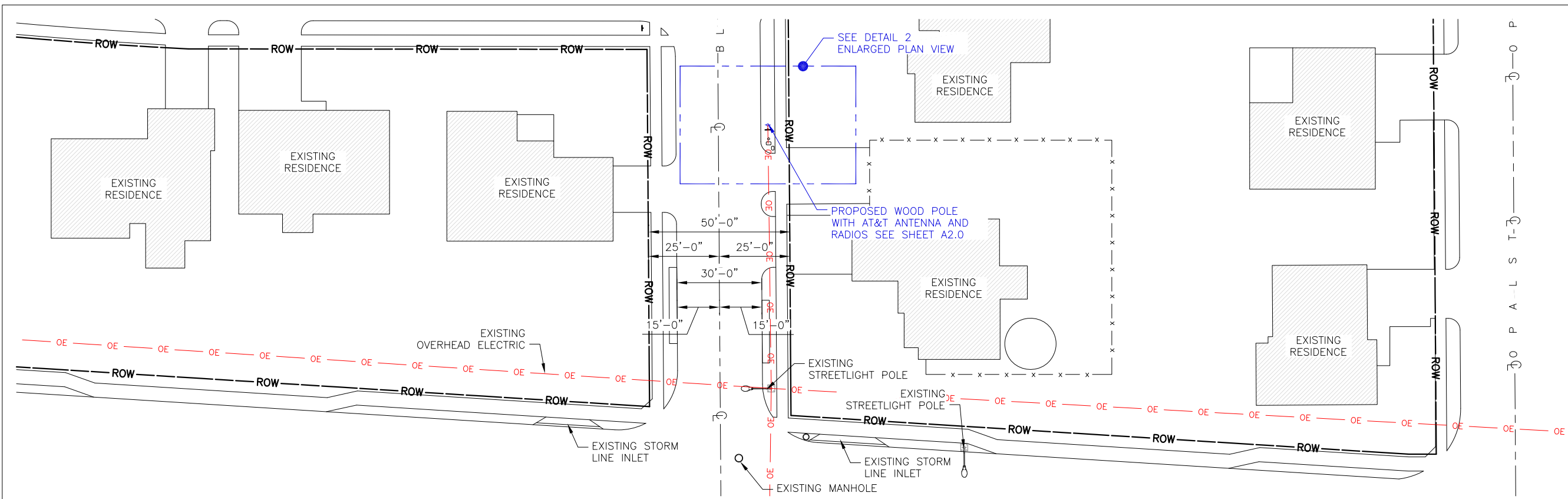
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OVERALL SITE PLAN

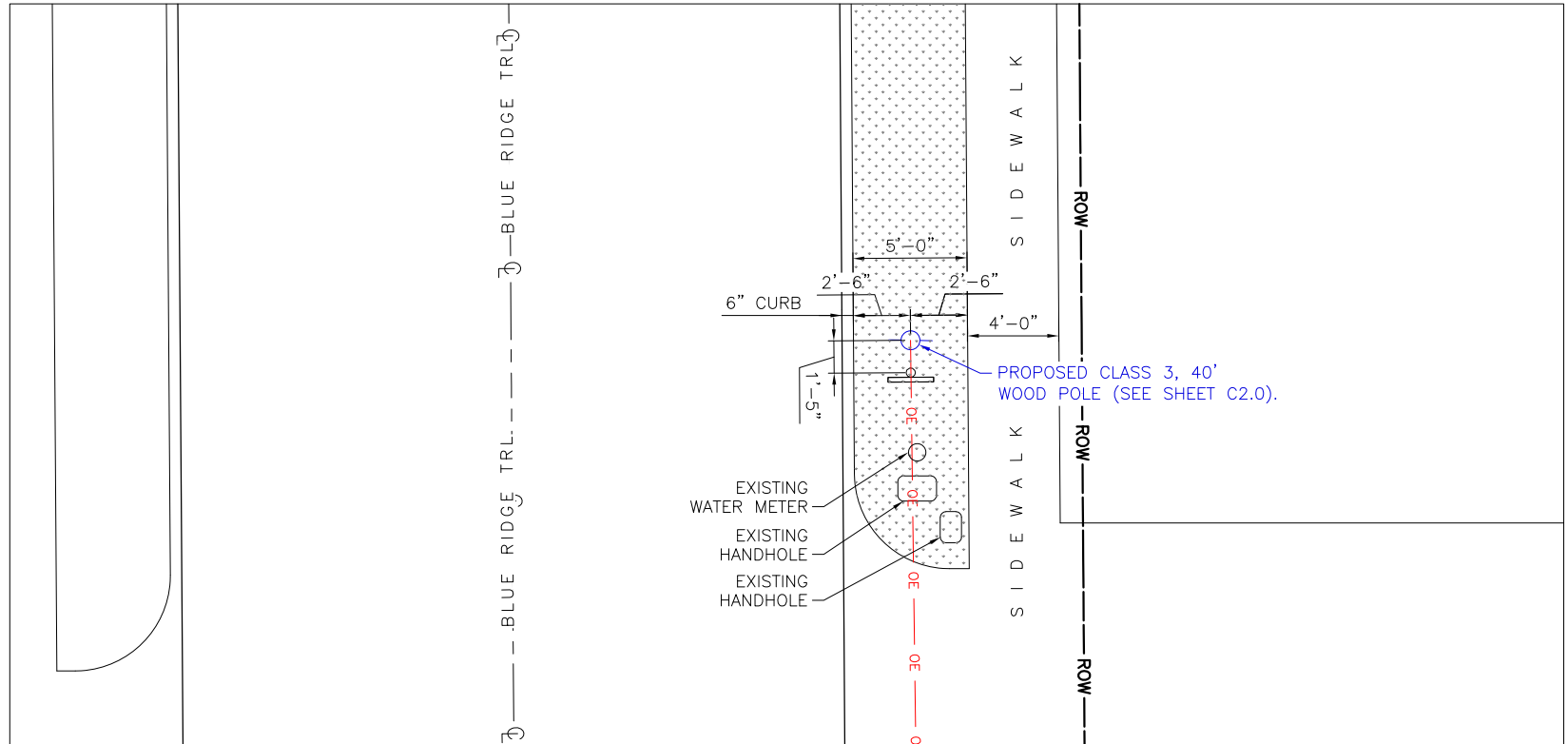
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C0.0



1 PLAN VIEW
FULL SIZE PLOT SCALE: 1" = 20'
HALF SIZE PLOT SCALE: 1" = 40'

LEGEND			
WL	WATER LINE	UGE	UNDER GROUND POWER
STL	STORM LINE	UGT	UNDER GROUND TELCO
SL	SEWER LINE	ROW	RIGHT OF WAY
EOP	EDGE OF PAVEMENT	CL	ROAD CENTERLINE
SIGNAGE		BOC	BACK OF CURB
GAS	GAS	FOC	FACE OF CURB
WOOD POLE		OT	OVERHEAD TELCO
PROPERTY LINE		OE	OVERHEAD ELECTRIC

- NOTES:
1. SITE PLAN DRAWN FROM AERIAL IMAGE.
 2. ANY UTILITY LOCATIONS SHOWN ARE REPRESENTATIVE IN NATURE. CONTRACTOR SHALL USE EXTREME CAUTION WHEN INSTALLING / REPLACING POLE AND RUNNING ANY POWER / FIBER CONDUITS.
 3. CONTRACTOR SHALL CALL FOR UTILITY LOCATES AND FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES.
 4. ALL CONDUITS SHALL MAINTAIN MIN. 24" CLEARANCE FROM EXISTING UTILITY CONDUITS.
 5. CONTRACTOR MUST VERIFY THE INFORMATION SHOWN AND FIELD LOCATE EXISTING UTILITIES SUCH AS ELECTRIC, GAS, WATER, SEWER AND TELCO PRIOR TO COMMENCEMENT OF WORK. IF ANY CONFLICTS ARE OBSERVED, CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY.



2 ENLARGED PLAN VIEW
FULL SIZE PLOT SCALE: 1/4" = 1'-0"
HALF SIZE PLOT SCALE: 1/8" = 1'-0"

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9051 PARK W DR,
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EVERY SITE, EVERY DAY

NTP WIRELESS
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HOUSTON TX, 77042

CORPORATE OFFICE
3305 HIGHWAY 60 WEST
FARIBAULT, MN 55021
507-334-2268

SCIP ID:

28730-008B

SITE ADDRESS:
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SAGINAW, TX 76179
TARRANT COUNTY

9/24/2019

19315 FM 2252, STE. 301
GARDEN RIDGE, TX 78266

PH: (210) 542-5911
F-13646

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DATE DRAWN:	09/23/19		
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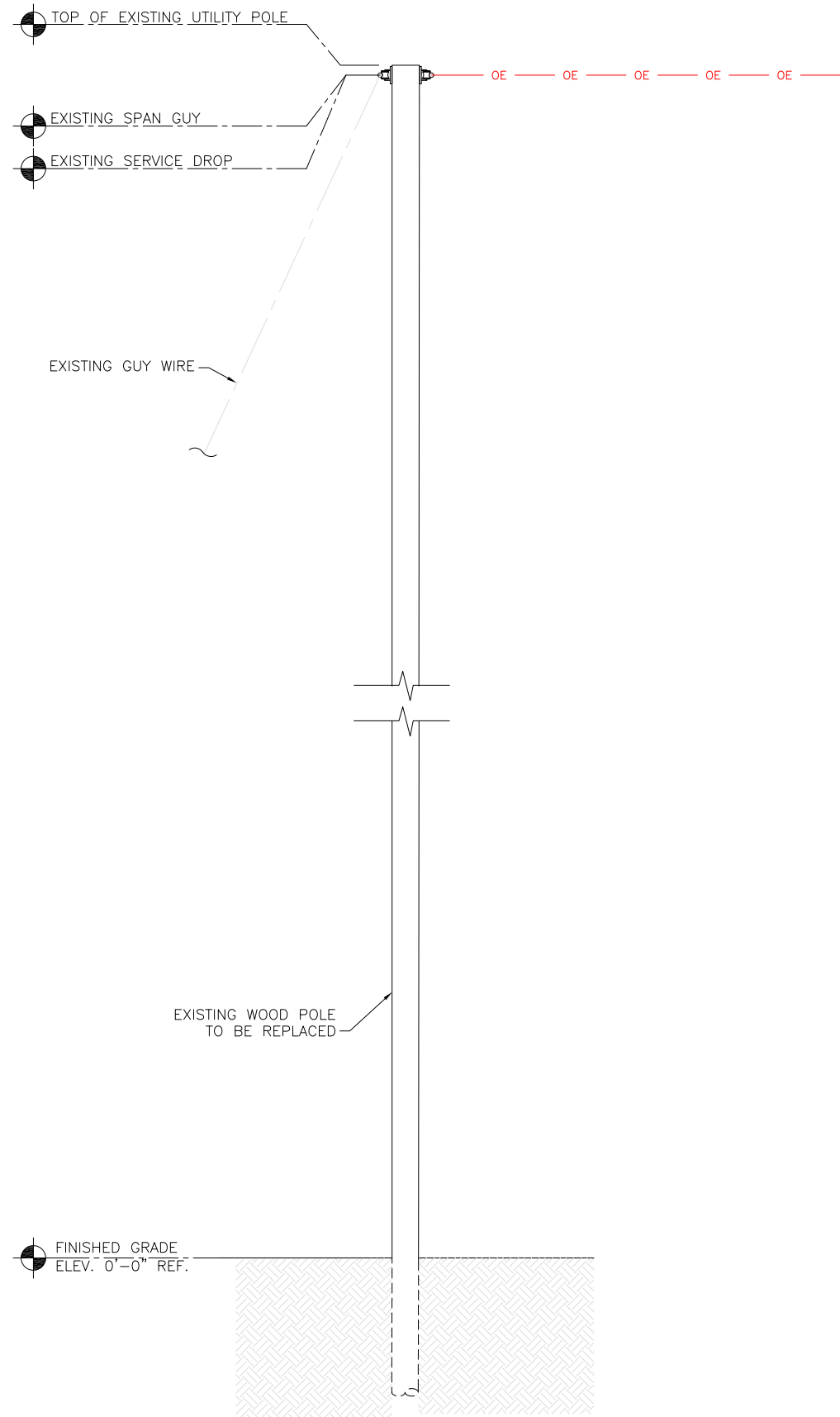
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PLAN VIEW

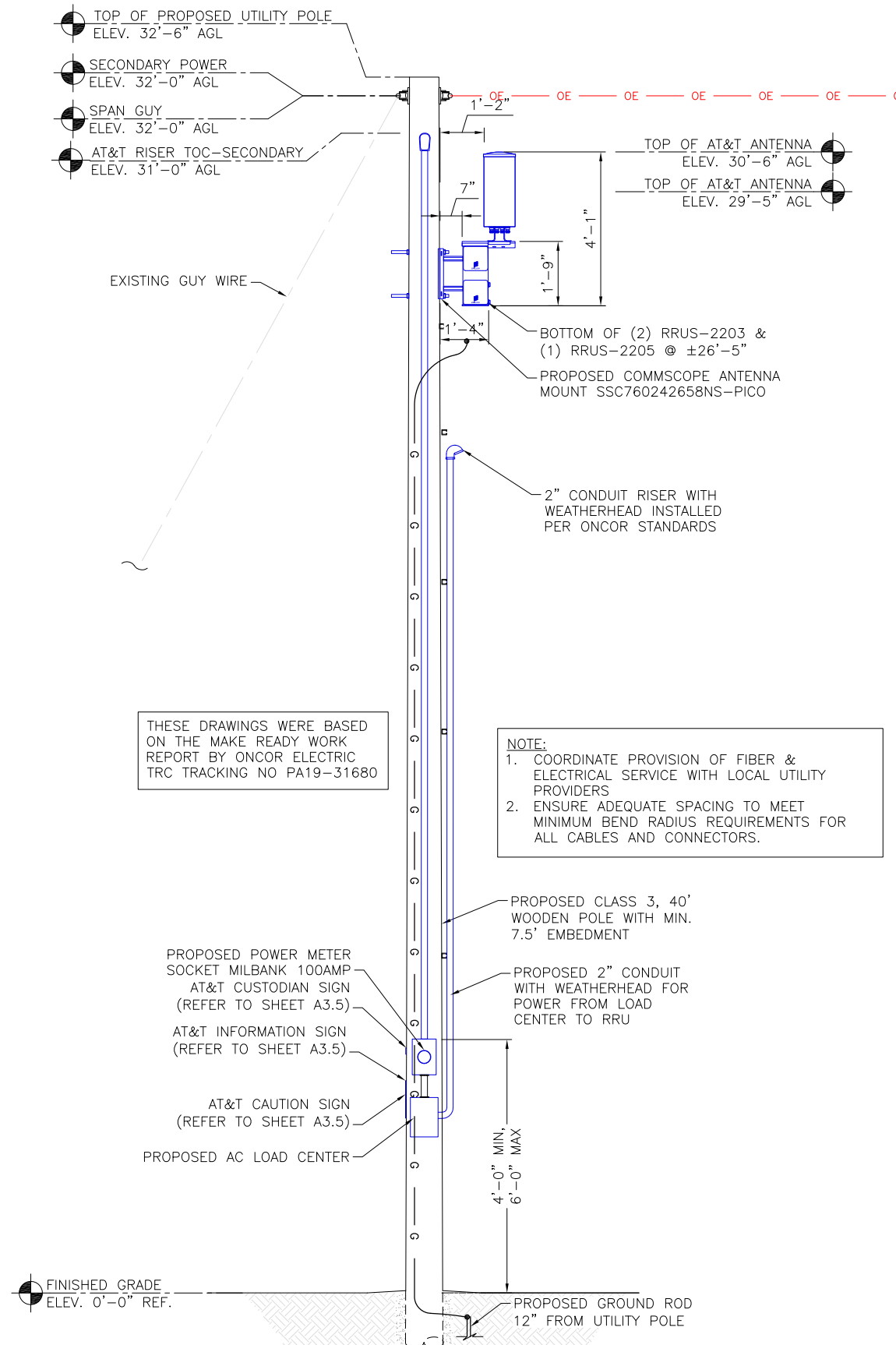
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C1.0

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1 EXISTING POLE ELEVATION
SCALE: N.T.S.



THESE DRAWINGS WERE BASED ON THE MAKE READY WORK REPORT BY ONCOR ELECTRIC TRC TRACKING NO PA19-31680

- NOTE:
1. COORDINATE PROVISION OF FIBER & ELECTRICAL SERVICE WITH LOCAL UTILITY PROVIDERS
 2. ENSURE ADEQUATE SPACING TO MEET MINIMUM BEND RADIUS REQUIREMENTS FOR ALL CABLES AND CONNECTORS.

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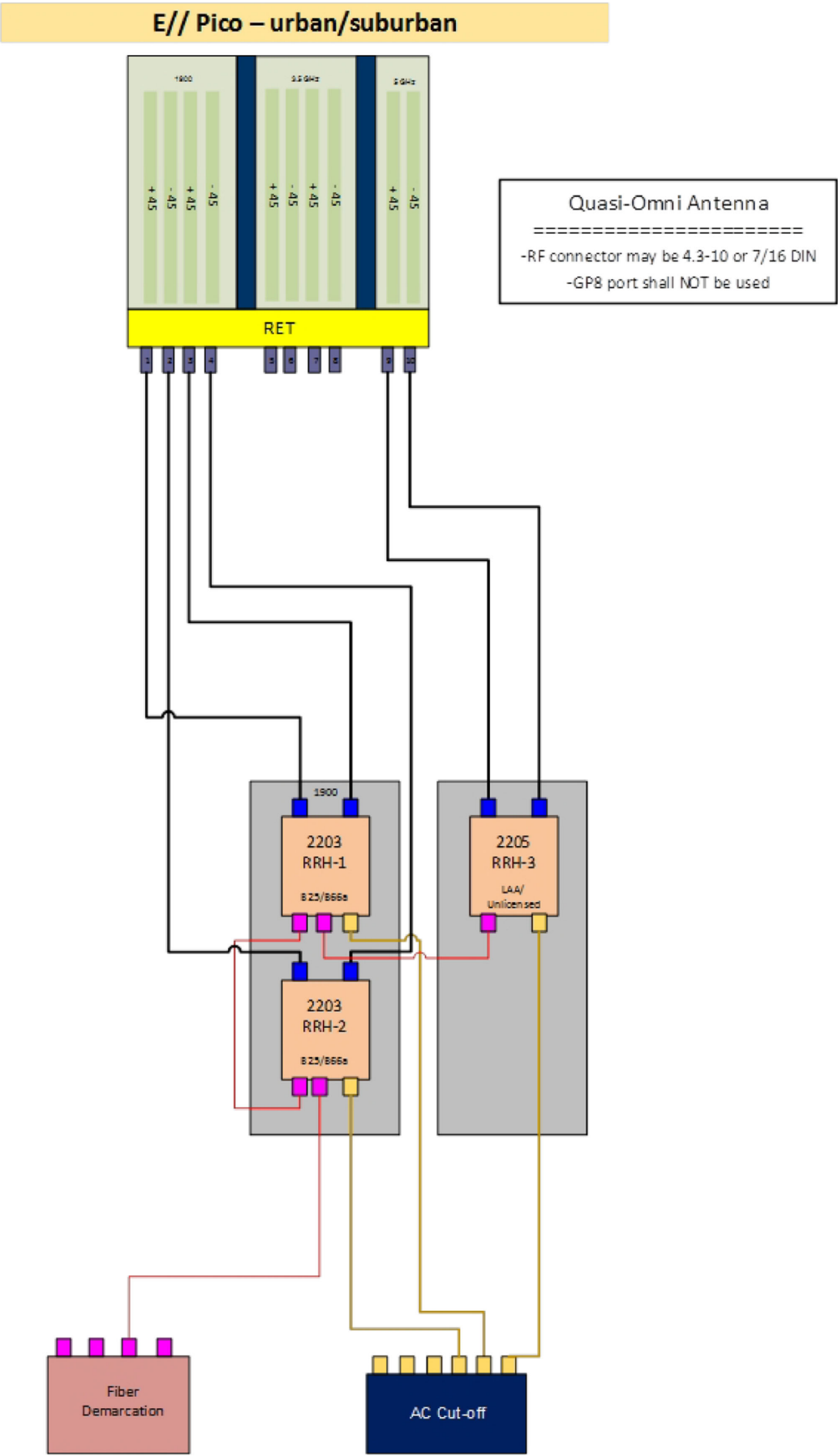
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SHEET TITLE:

POLE ELEVATION

SHEET NUMBER:

C2.0



1 SMALL CELL ONE LINE SCHEMATIC
SCALE: N.T.S.

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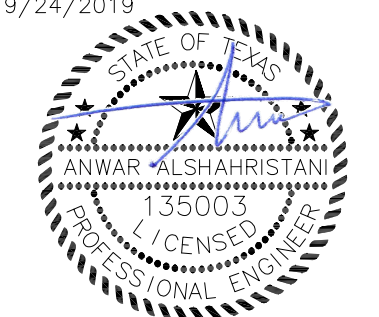

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SHEET TITLE:
SMALL CELL ONE LINE SCHEMATIC

SHEET NUMBER:
C2.1

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1 CURRENT VIEW NORTH
SCALE: N.T.S.



2 PROPOSED VIEW NORTH
SCALE: N.T.S.



3 CURRENT VIEW EAST
SCALE: N.T.S.



4 PROPOSED VIEW EAST
SCALE: N.T.S.

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SHEET TITLE:

PHOTOSIM

SHEET NUMBER:

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1 CURRENT VIEW SOUTH
SCALE: N.T.S.



2 PROPOSED VIEW SOUTH
SCALE: N.T.S.

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PHOTOSIM

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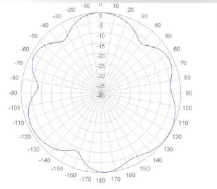


10" x 24" Outdoor Pseudo Omni Canister Antenna [1695-2400, 3550-3700 and 5150-5950 MHz]

EXTENT™ P6480i

Description:

- Pseudo Omni Canister Antenna for Outdoor DAS and Small Cells.
- 4x ports for AWS/PCS/WCS Band 1695-2400 MHz
- 4x ports for CBRS Band 3550-3700 MHz
- 2x ports for 5GHz Band 5150-5950 MHz



1695-2400, 3550-3700 and 5150-5950 MHz Pseudo Omni Canister Antenna

Electrical Specifications				
Frequency Band [MHz]	1695-2180	2180-2400	3550-3700	5150-5950
Input Connector Type	4x 4.3-10 DIN(F)		4x 4.3-10 DIN(F)	2x 4.3-10 DIN(F)
Isolation (typ.)	-20 dB		-25 dB	-25 dB
Inter-band Isolation	-30 dB (typ)		-30 dB (typ)	-30 dB (typ)
VSWR/Return Loss	1.5:1(Typ.) 1.7:1(Max.) / 14.0 dB(Typ.) 11.8dB(Max.)			
Impedance	50 Ω			
Polarization	Dual slant 45° (±45°)			
Horizontal Beamwidth	Omni (360°)			
Vertical Beamwidth	15°	12°	15°	19°
Max. Gain	9 dBi	9.5 dBi	8.5 dBi	6 dBi(Max.)
Avg. Gain	7.5 dBi	8 dBi	8 dBi	3 dBi
Downtilt	0°			
Max Power / Port	150 Watts		100 Watts	10 Watts
PIM @ 2x43 dBm	<-153 dBc		N/A	N/A

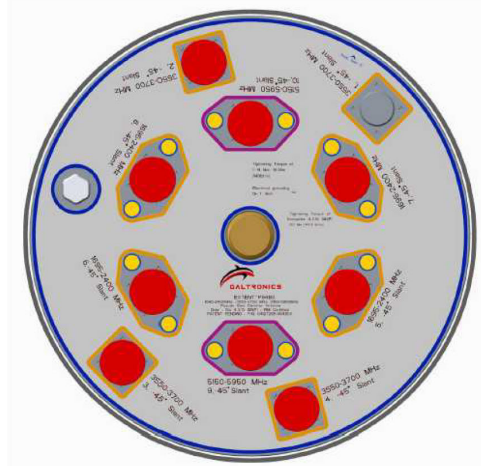
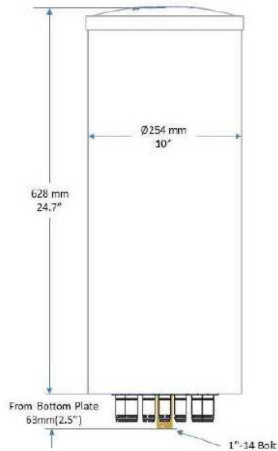
Mechanical Specifications	
Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	19 lbs (9 kg)
Antenna Diameter	10" (254 mm)
Antenna Height	24.7" (628 mm)
Radome Material	ASA
RoHS	Compliant
Radome Color	Gray, Brown, 3M™ Conceal Film, Custom Colors Possible
Ingress Protection	Outdoor (IP65)
Wind Survival Rating	150 mph (241 km/h)
Shipping Dimensions - L x W x D	30"x19"x19" (762x483x483 mm)
Shipping Weight (Gross Weight)	26 lbs (12 kg)

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Additional Technical Information

Mechanical Dimensions



Part Numbers, Ordering Options and Accessories	
Description:	Part Number:
Antenna with 10x 4.3-10 DIN (F) Connectors, Gray	04127265-06480-1
Antenna with 10x 4.3-10 DIN (F) Connectors, Brown	04127265-06480-6
Antenna with 10x 4.3-10 DIN (F) Connectors, Chrome (3M™ Conceal Film)	04127265-06480-C

Mounting Bracket(s):	
Mounting Kit Assembly, Canister, Pole Top (wind speed of 150 mph) The assembly kit includes a 1" Mount Rod Adapter (MK-06678: universal interface for pole top installation) and a Pole Top Mounting Bracket (MK-06679: a bracket base attached directly to wood, metal and cement poles). Note: 1" Rod Adapter (MK-06678) and Pole Top Mounting Bracket (MK-06679) may be ordered separately.	

Mating Connector Torque:
4.3-10: 3.7 ft-lb (5 Nm)

Release Date: March 02, 2017; Revision: S-1 : RFD#6480

Release Date: March 02, 2017; Revision: S-1 : RFD#6480

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HOUSTON, TX 77063



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CORPORATE OFFICE
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FARIBAULT, MN 55021
507-334-2268

SCIP ID:

28730-008B

SITE ADDRESS:
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TARRANT COUNTY

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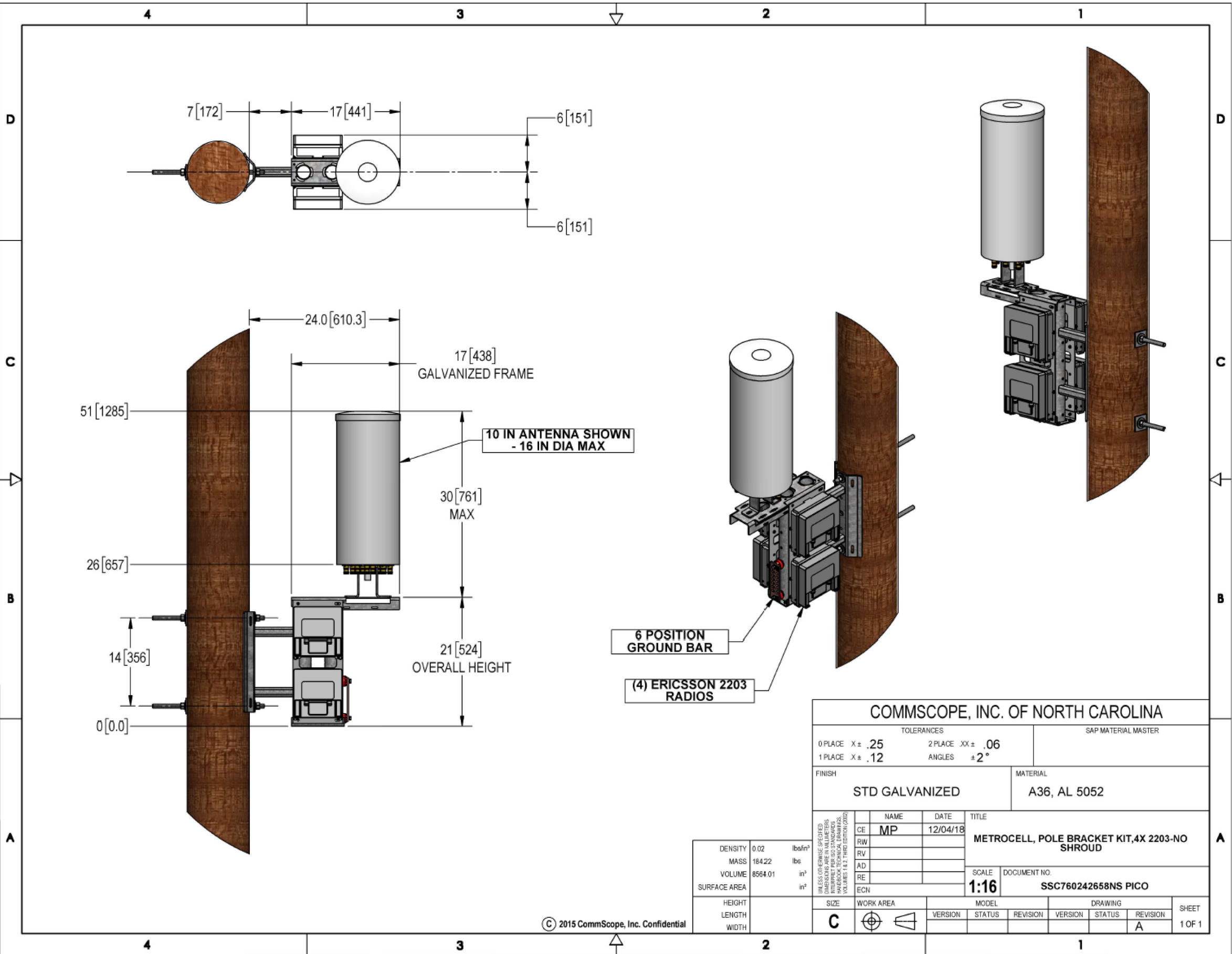


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SHEET TITLE:
**ANTENNA AND
MOUNTING KIT DETAIL**

SHEET NUMBER:
C3.0NO



1 ANTENNA MOUNT (SSC760242658NS-PICO) DETAIL
SCALE: N.T.S.

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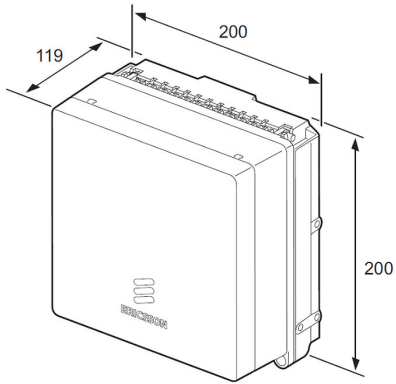
ANTENNA MOUNT
DETAILS

SHEET NUMBER:

C3.1

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Description	Value
Frequency ⁽¹⁾	1920–1980 MHz uplink
	2110–2170 MHz downlink
	B1 for WCDMA and LTE.
	1710–1785 MHz uplink
	1805–1880 MHz downlink
	B3 for WCDMA and LTE
	1744.9–1784.9 MHz uplink
	1839.9–1879.9 MHz downlink
	B3C for WCDMA and LTE
	824–849 MHz uplink
	869–894 MHz downlink
	B5 for WCDMA and LTE
	1710–1780 MHz uplink
	2110–2180 MHz downlink
	B66A for WCDMA and LTE.
	880–915 MHz uplink
	925–960 MHz downlink
	B8 for WCDMA and LTE
Dimensions with Cover	
Height	200 mm
Width	200 mm
Depth	100 mm
Dimensions with Antenna	
Height	200 mm
Width	200 mm
Depth of Radio 2203 B1, B3C	119 mm
Depth of Radio 2203 B8	129 mm
Weight with Cover	
Radio 2203	4.5 kg
Weight with Antenna	
Radio 2203	4.9 kg
Color	
Body	NCS S 1002-B



RADIO 2205 LAA

- › LAA
- › Frequency Band: Unlicensed band in 5GHz (5150MHz—5875MHz)
 - › 3GPP: B46A/B/C/D
- › IBW: 60MHz
- › Up to 3 LTE carriers 20MHz
- › Output Power--2*500mW
- › Support 2TX/2RX
- › Size: 4L
- › Weight: 4Kg
- › 2x10G CPRI
- › Power supply: AC or DC



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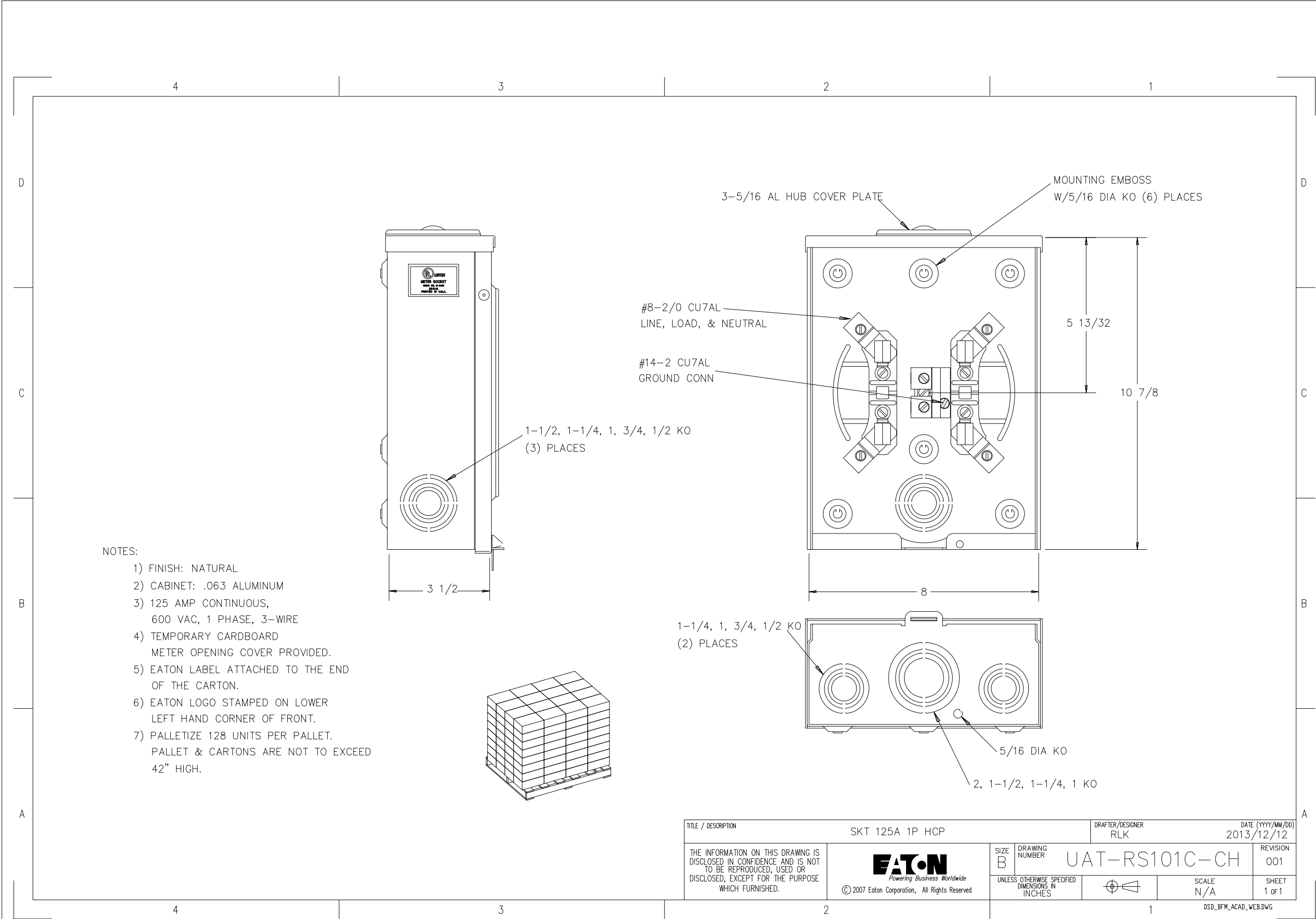
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SHEET TITLE:

RADIO DETAILS

SHEET NUMBER:

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SHEET TITLE:

METER BASE DETAIL

SHEET NUMBER:

C3.3

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Product Data Sheet

QO612L100RB
Load Center , 100A, Fixed - Factory installed main lugs, 120/240VAC



List Price \$143.00 USD
Availability **Stock Item: This item is normally stocked in our distribution facility.**

Technical Characteristics

Ampere Rating	100A
Maximum Single Pole Circuits	12
Application	Designed to meet residential, commercial and industrial requirements to protect electrical systems, equipment and people.
Approvals	UL Listed
Cover Type	Surface
Bus Material	Tin Plated Aluminum
Enclosure Type	Outdoor/Rainproof
Box Number	2R
Enclosure Rating	NEMA 3R
Grounding Bar	Order separately
Short Circuit Current Rating	10kA
Main Type	Fixed - Factory installed main lugs
Voltage Rating	120/240VAC
Wire Size	#8 to 1 AWG(Al/Cu)
Maximum Tandem Circuit Breakers	6
Phase	1-Phase
Wiring Configuration	3-Wire
Depth	4.27 Inches
Height	12.65 Inches
Width	8.88 Inches
Spaces	6

Notes: 70A (max) branch circuit breaker and 70A (max) back fed main circuit breaker.

Shipping and Ordering

Category	00101 - Load Centers, 1 Phase, NEMA1 & 3R, 2 - 8 Circuit, Type QO
Discount Schedule	DE3A
GTIN	00785901785590
Package Quantity	1
Weight	9.68 lbs.
Availability Code	Stock Item: This item is normally stocked in our distribution facility.
Returnability	Y

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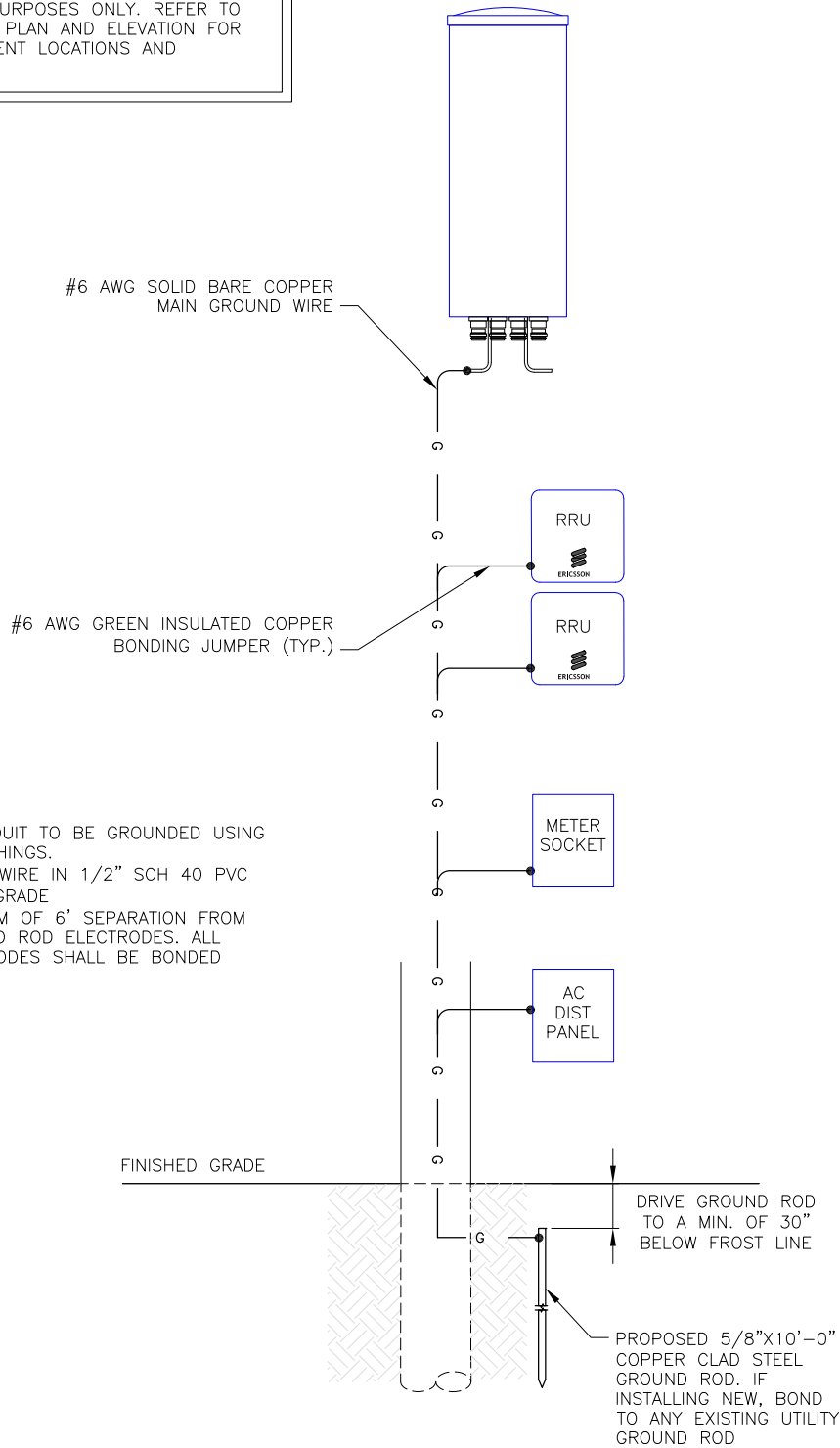
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LOAD CENTER DETAIL

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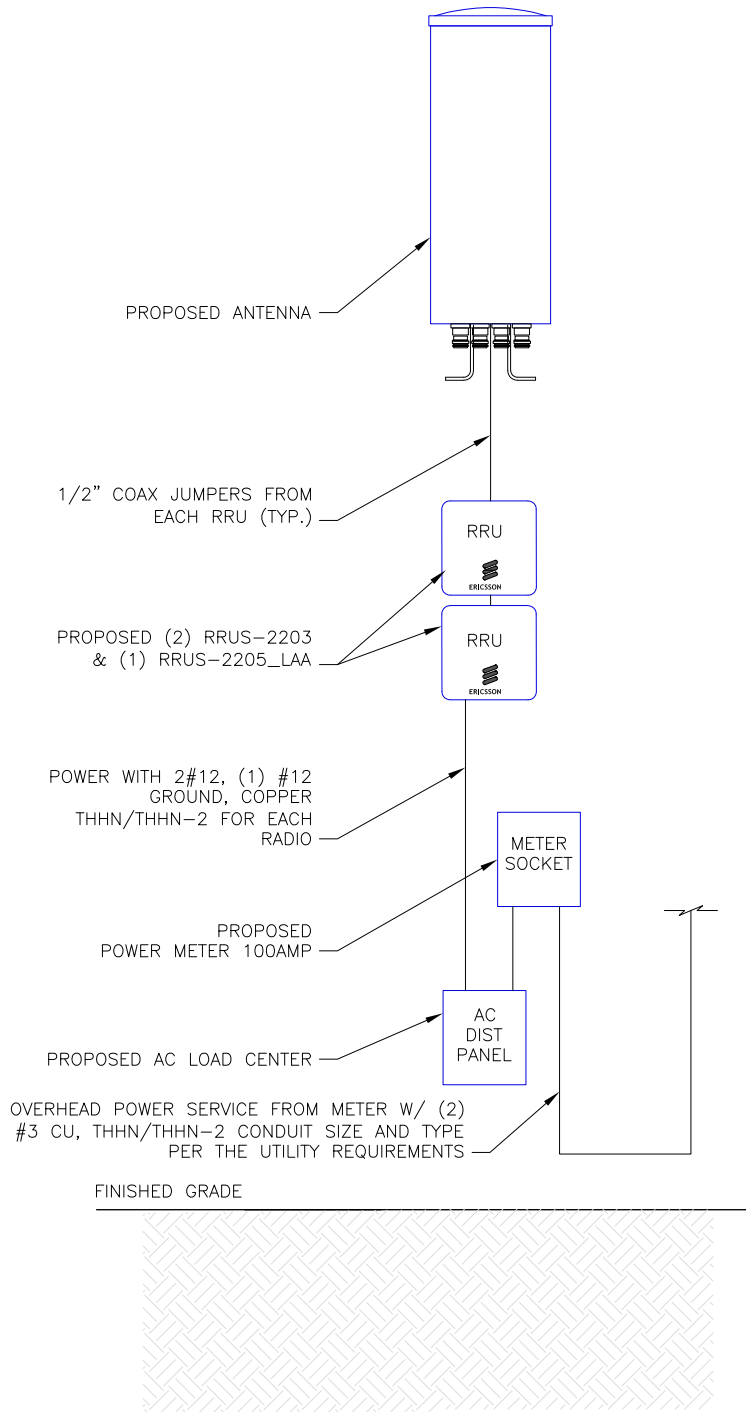
C3.4

EQUIPMENT AND LAYOUT SHOWN IS FOR
DIAGRAMMATIC PURPOSES ONLY. REFER TO
PROPOSED SITE PLAN AND ELEVATION FOR
ACTUAL EQUIPMENT LOCATIONS AND
CONDITIONS



- NOTES:
1. ALL METAL CONDUIT TO BE GROUNDED USING GROUNDING BUSHINGS.
 2. ROUTE GROUND WIRE IN 1/2" SCH 40 PVC TO 12" BELOW GRADE
 3. MAINTAIN MINIMUM OF 6' SEPARATION FROM EXISTING GROUND ROD ELECTRODES. ALL GROUND ELECTRODES SHALL BE BONDED TOGETHER.

1 GROUNDING RISER
SCALE: N.T.S.



1/2" COAX JUMPERS FROM
EACH RRU (TYP.)

PROPOSED (2) RRUS-2203
& (1) RRUS-2205_LAA

POWER WITH 2#12, (1) #12
GROUND, COPPER
THHN/THHN-2 FOR EACH
RADIO

PROPOSED
POWER METER 100AMP

PROPOSED AC LOAD CENTER

OVERHEAD POWER SERVICE FROM METER W/ (2)
#3 CU, THHN/THHN-2 CONDUIT SIZE AND TYPE
PER THE UTILITY REQUIREMENTS

FINISHED GRADE

2 ELECTRICAL RISER
SCALE: N.T.S.

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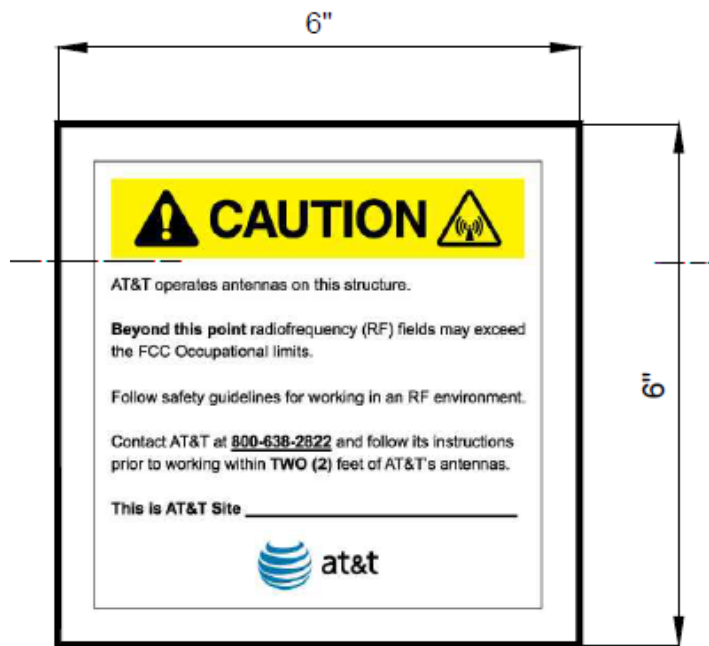
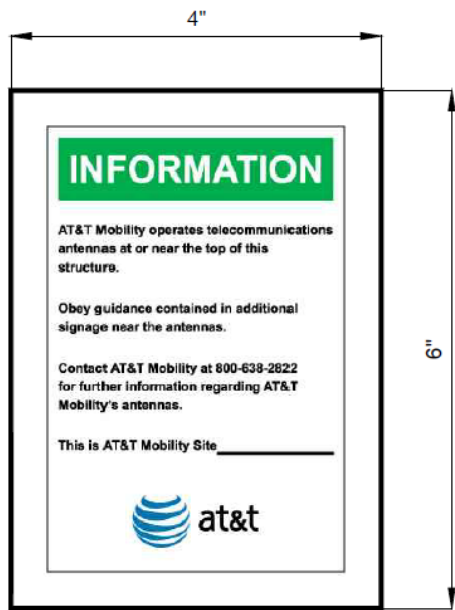
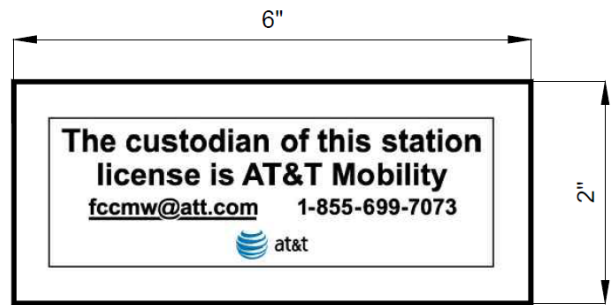
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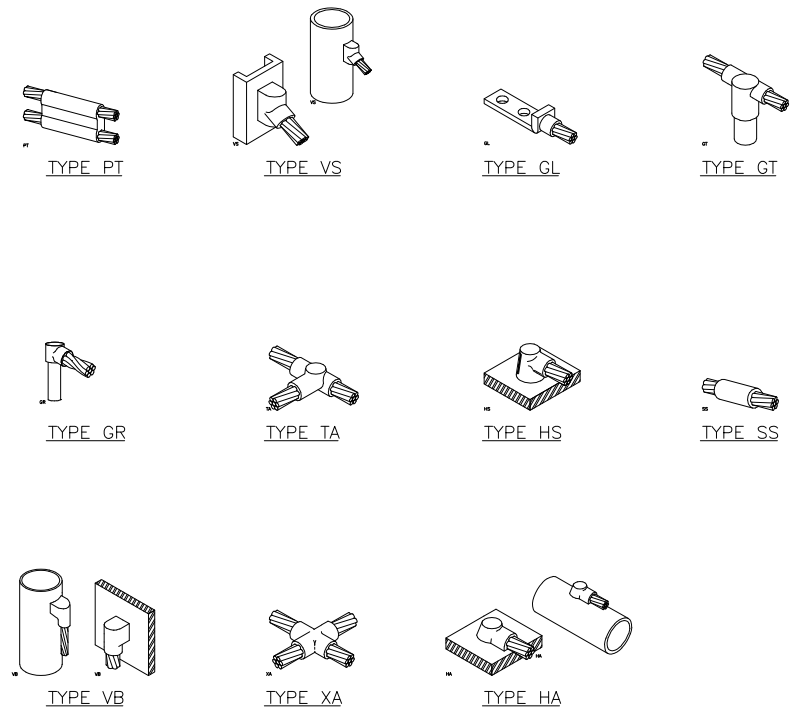
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1 AT&T WARNING SIGNS
SCALE: N.T.S.



2 TYPICAL CADWELD CONNECTIONS
SCALE: N.T.S.

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28730-008B

SITE ADDRESS:
821 BLUERIDGE TRAIL
SAGINAW, TX 76179
TARRANT COUNTY

9/24/2019





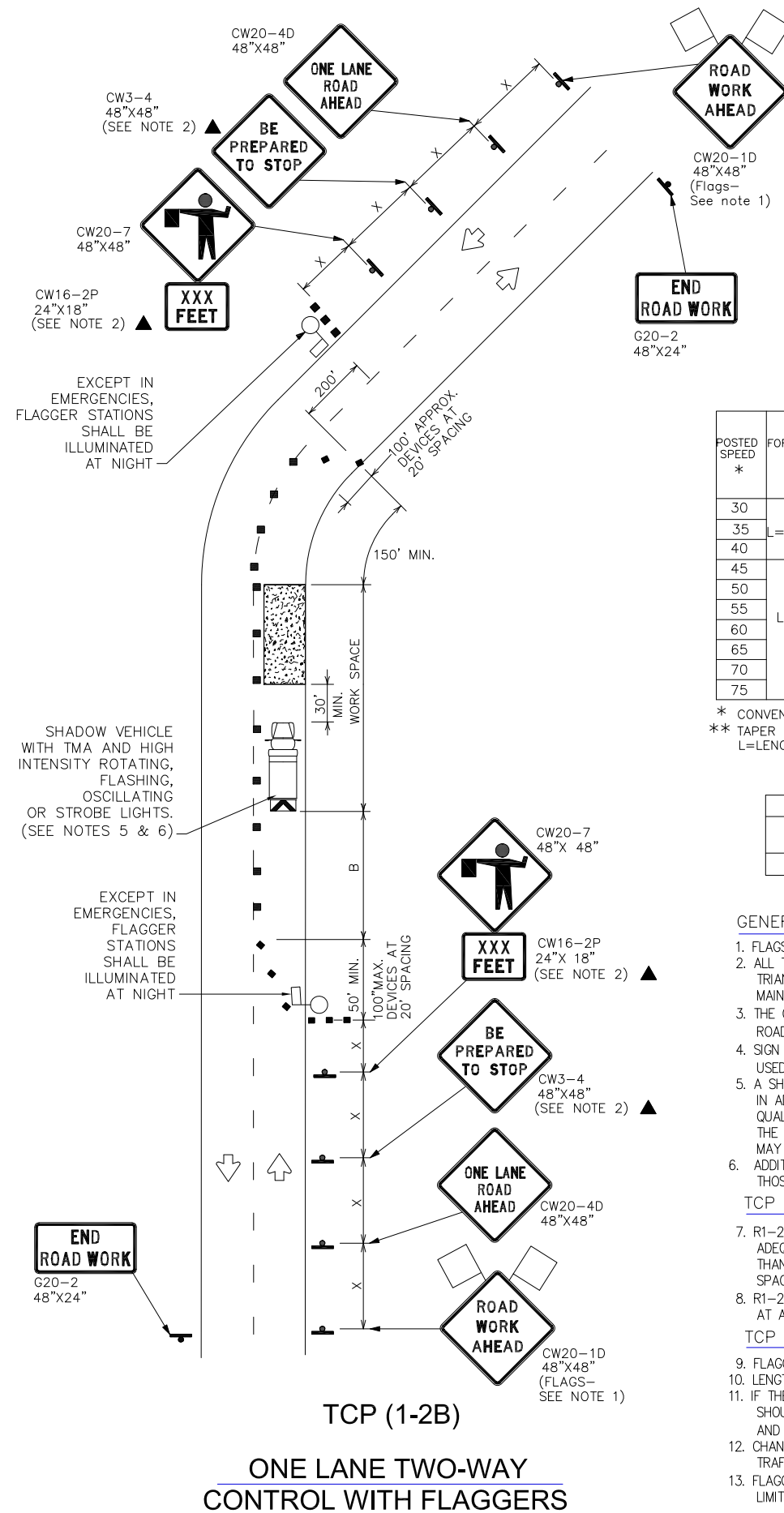
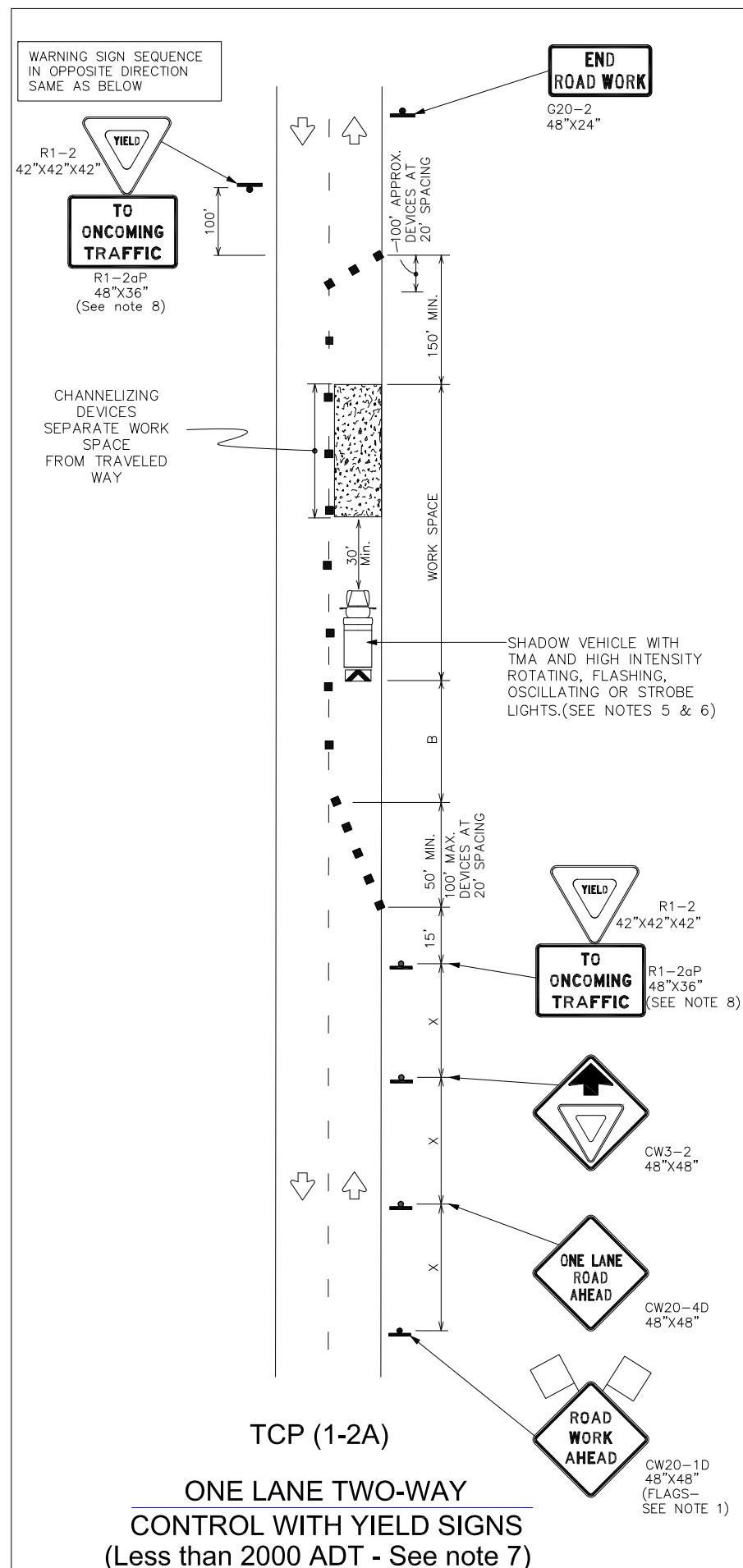
19315 FM 2252, STE. 301
GARDEN RIDGE, TX 78266
PH: (210) 542-5911
F-13646

DRAWN BY:	LC		
APPROVED BY:	TH		
DATE DRAWN:	09/23/19		
REVISION			
NO	DESCRIPTION	BY	DATE
0	ISSUED FOR CONSTRUCTION	LC	09/18/19

SHEET TITLE:
GROUNDING & AT&T
WARNING SIGNS

SHEET NUMBER:
C3.6

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LEGEND		
	TYPE 3 BARRICADE	 CHANNELIZING DEVICES
	HEAVY WORK VEHICLE	 TRUCK MOUNTED ATTENUATOR (TMA)
	TRAILER MOUNTED FLASHING ARROW BOARD	 PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
	SIGN	 TRAFFIC FLOW
	FLAG	 FLAGGER

POSTED SPEED *	FORMULA	MINIMUM DESIRABLE TAPER LENGTHS **			SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES		MINIMUM SIGN SPACING "X" DISTANCE	SUGGESTED LONGITUDINAL BUFFER SPACE "B"	STOPPING SIGHT DISTANCE
		10' Offset	11' Offset	12' Offset	ON A TAPER	ON A TANGENT			
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L=WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

* CONVENTIONAL ROADS ONLY

** TAPER LENGTHS HAVE BEEN ROUNDED OFF.

L=LENGTH OF TAPER(FT) W=WIDTH OF OFFSET(FT) S=POSTED SPEED(MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

1. FLAGS ATTACHED TO SIGNS WHERE SHOWN ARE REQUIRED.
2. ALL TRAFFIC CONTROL DEVICES ILLUSTRATED ARE REQUIRED, EXCEPT THOSE DENOTED WITH THE TRIANGLE SYMBOL MAY BE OMITTED WHEN STATED ELSEWHERE IN THE PLANS, OR FOR ROUTINE MAINTENANCE WORK, WHEN APPROVED BY THE ENGINEER.
3. THE CW3-4 "BE PREPARED TO STOP" SIGN MAY BE INSTALLED AFTER THE CW20-4D "ONE LANE ROAD AHEAD" SIGN, BUT PROPER SIGN SPACING SHALL BE MAINTAINED.
4. SIGN SPACING MAY BE INCREASED OR AN ADDITIONAL CW20-1D "ROAD WORK AHEAD" SIGN MAY BE USED IF ADVANCE WARNING AHEAD OF THE FLAGGER OR RI-2 "YIELD" SIGN IS LESS THAN 1500 FEET.
5. A SHADOW VEHICLE WITH A TMA SHOULD BE USED ANYTIME IT CAN BE POSITIONED 30 TO 100 FEET IN ADVANCE OF THE AREA OF CREW EXPOSURE WITHOUT ADVERSELY AFFECTING THE PERFORMANCE OR QUALITY OF THE WORK. IF WORKERS ARE NO LONGER PRESENT BUT ROAD OR WORK CONDITIONS REQUIRE THE TRAFFIC CONTROL TO REMAIN IN PLACE, TYPE 3 BARRICADES OR OTHER CHANNELIZING DEVICES MAY BE SUBSTITUTED FOR THE SHADOW VEHICLE AND TMA.
6. ADDITIONAL SHADOW VEHICLES WITH TMAS MAY BE POSITIONED OFF THE PAVED SURFACE, NEXT TO THOSE SHOWN IN ORDER TO PROTECT WIDER WORK SPACES.

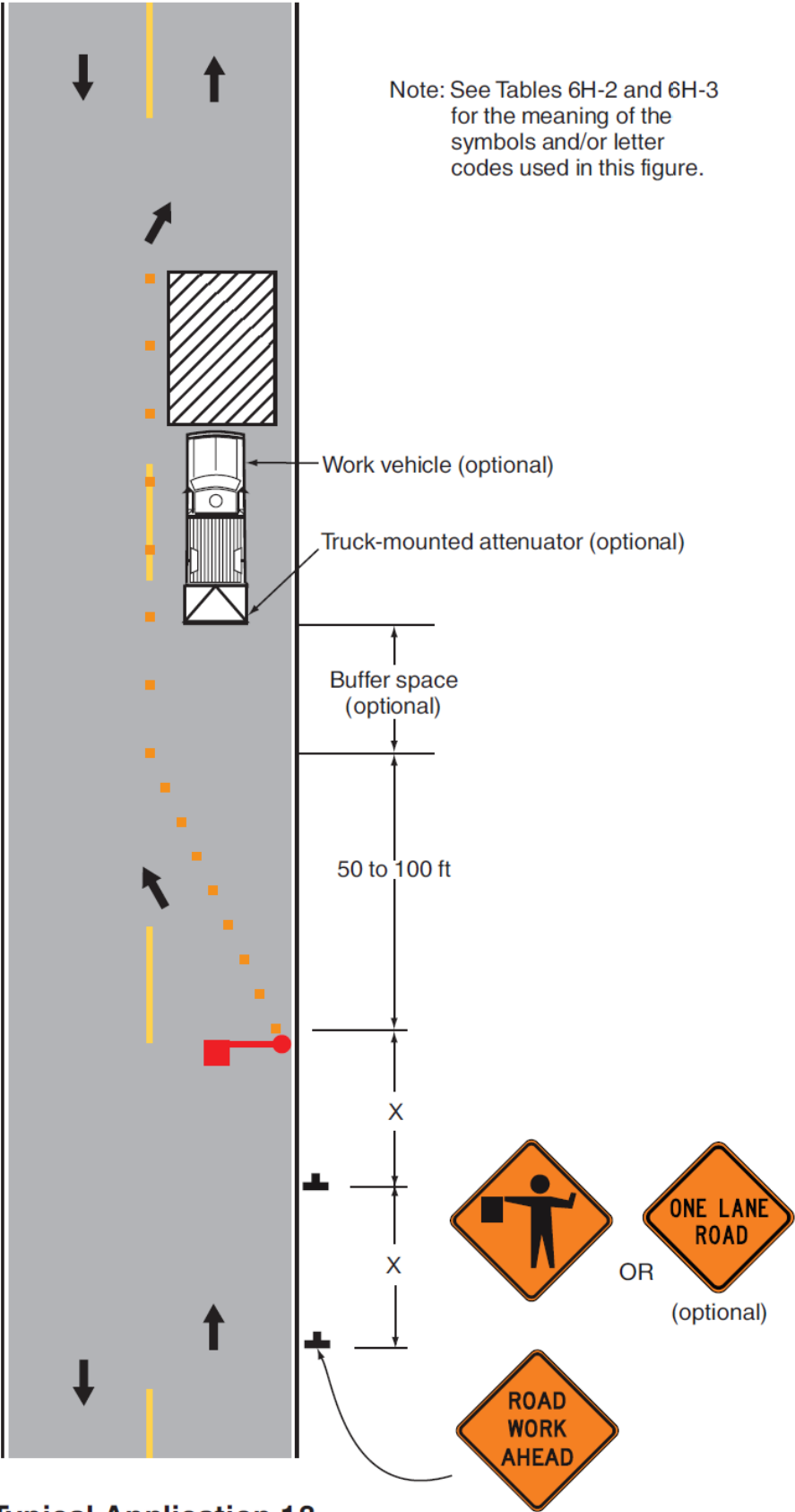
TCP (1-2A)

7. R1-2 "YIELD" SIGN TRAFFIC CONTROL MAY BE USED ON PROJECTS WITH APPROACHES THAT HAVE ADEQUATE SIGHT DISTANCE. FOR PROJECTS IN URBAN AREAS, WORK SPACES SHOULD BE NO LONGER THAN ONE HALF CITY BLOCK. IN RURAL AREAS ON ROADWAYS WITH LESS THAN 2000 ADT, WORK SPACES SHOULD BE NO LONGER THAN 400 FEET.
 8. R1-2 "YIELD" SIGN WITH R1-2AP "TO ONCOMING TRAFFIC" PLAQUE SHALL BE PLACED ON A SUPPORT AT A 7 FOOT MINIMUM MOUNTING HEIGHT.
- TCP (1-2B)
9. FLAGGERS SHOULD USE TWO-WAY RADIOS OR OTHER METHODS OF COMMUNICATION TO CONTROL TRAFFIC.
 10. LENGTH OF WORK SPACE SHOULD BE BASED ON THE ABILITY OF FLAGGERS TO COMMUNICATE.
 11. IF THE WORK SPACE IS LOCATED NEAR A HORIZONTAL OR VERTICAL CURVE, THE BUFFER DISTANCES SHOULD BE INCREASED IN ORDER TO MAINTAIN ADEQUATE STOPPING SIGHT DISTANCE TO THE FLAGGER AND A QUEUE OF STOPPED VEHICLES (SEE TABLE ABOVE).
 12. CHANNELIZING DEVICES ON THE CENTER-LINE MAY BE OMITTED WHEN A PILOT CAR IS LEADING TRAFFIC AND APPROVED BY THE ENGINEER.
 13. FLAGGERS SHOULD USE 24" STOP/SLOW PADDLES TO CONTROL TRAFFIC. FLAGS SHOULD BE LIMITED TO EMERGENCY SITUATIONS.

Figure 6H-18. Lane Closure on a Minor Street (TA-18)

Note: Warning signs sequence in this direction same as below

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.



Typical Application 18

1 TMUTCD TxDOT REFERENCE
SCALE: N.T.S.

PREPARED FOR:


AT&T MOBILITY
9051 PARK W DR,
HOUSTON, TX 77063


EVERY SITE, EVERY DAY
NTP WIRELESS
11011 RICHMOND AVENUE, SUITE 980
HOUSTON TX, 77042


CORPORATE OFFICE
3305 HIGHWAY 60 WEST
FARIBAULT, MN 55021
507-334-2268

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SHEET TITLE:
TRAFFIC CONTROL PLAN

SHEET NUMBER:
TR2.0