

SPECIAL INSPECTIONS

- CONCRETE BOLTS INSTALLED IN CONCRETE CONCRETE MOMENT-RESISTING SPACE FRAME REINFORCING STEEL AND PRESTRESSING STEEL ALL STRUCTURAL WELDING WELDING DETERTING DUCTLE MOMENT-RESISTING STEEL FRAME WELDING DETERTION GUTCH

NO. DESCRIPTION OF TYPE OF INSPECTION REQUIRED, LOCATION, REMARKS

- WELDING REINFORCING STEEL HIGH-STRENGTH BOLTING STRUCTURAL MASONRY

- REINFORCED GYPSUM CONCRETE INSULATING CONCRETE FILL SPRAY-APPLIED FIREPROOFING
- DEEP FOUNDATIONS (PILING, DRILLED & CAISSONS) SHOTCRETE
- 13.1 VERIFY SOIL CONDITIONS ARE SUBSTANTIALLY IN CONFORMANCE WITH THE SOIL INVESTIGATION REPORT
 13.2 VERIFY THAT FOUNDATION EXCAVATIONS EXTEND TO PROPER DEPTH AND BEARING STRATA
 13.3 PROVIDE SOIL COMPACTION TEST RESULTS, DEPTH OF FILL, RELATIVE DENSITY, BEARING VALUES
 13.4 PROVIDE SOIL EXCAVASION TEST RESULTS, EXPANSION INDEX, RECOMMENDATIONS FOR FOUNDATIONS, ON-CRADE ELOOP SILA DESIGN FOOR EACH BUILDING STRE

- GRADE FLOOR SLAB DESIGN FOR EACH BUILDING SIT
- 14
- SMORE COUR SLAB DESIGN FOR EACH BUILDING SI SMORE CONTROL SYSTEM SPECIAL CASES (DESCRIBE) OFF-SITE FABRICATION OF BUILDING COMPONENTS OTHER SPECIAL INSPECTIONS AS REQUIRED BY DESIGNER 15 16 17

ENGINEERING: MASTEC NETWORK SOLUTIONS

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DEVELOPMENT SUMMARY AT&T MOBILITY 1452 EDINGER AVENUE, 3RD FLOOR TUSTIN, CALIFORNIA 92780 APPLICANT: T−1 T−2 LS-1 SITE SURVEY PROPERTY OWNER: QUEST DIAGNOSTICS 33608 ORTEGA HIGHWAY SAN JUAN CAPISTRANO, CALIFORNIA 92675 TOWER OWNER AT&T OTHER ON-SITE TELECOM FACILITIES: TBD

ASSESSORS PARCEL NUMBER: LATITUDE: LONGITUDE: LAT/LONG TYPE: NAD-83 ELEVATION: ±621.3' AMSL EXISTING ZONING: PROPOSED PROJECT AREA: EXISTING TYPE OF CONSTRUCTION: TYPE V-B PROPOSED TYPE OF CONSTRUCTION TYPE V-B EXISTING OCCUPANCY: U PROPOSED OCCUPANCY: U ULIRISDICTION. ORANGE COUNTY

125-140-19 33° 33' 41.2056"N 33.56145* 117'32'33.1980"W R/OPS (C33412) (SR) NO INCREASE IN S.F.

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AT&T MOBILITY PROPOSES TO MODIFY AN EXISTING UNMANNED WIRELESS COMMUNICATIONS FACILITY. THIS MODIFICATION WILL CONSIST OF THE FOLLOWING:

- MONOPOLE.
- INSTALL NEW 70'-0" TALL MONO-EUCALYPTUS. INSTALL NEW AT&T 3'-0"Ø MICROWAVE ANTENNA AT 62'-7" RAD-CENTER.
- INSTALL NEW (2) NOKIA UBT-S ODU'S. INSTALL NEW (2) 3CC52210BAACHDZZA
- INSTALL NEW (2) ICOM COAX (1AC041350001).
- EQUIPMENT AREA
- INSTALL NEW 4'-0" X 4'-0" CONCRETE PAD.
- INSTALL NEW (1) FLX-25 PURCELL CABINET ON NEW CONCRETE PAD.

FINAL DESIGN; (1) MONO-EUCALYPTUS, (1) MICROWAVE, (2) ODU'S, (2) FIBER AND (2) COAX





A-0 A-0.1	SITE PLAN – PF SITE PLAN
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SHEET INDEX

TITLE SHEET SPECIFICATIONS AND NOTES

- PROPERTY LINES

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PLICABLE CODES

WITH THE FOLLOWING APPLICABLE CODES:

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NFLICT. THE MOST RESTRICTIVE CODE SHALL PREVAIL

ACCESSIBILITY DISCLAIMER

THIS PROJECT IS AN UNOCCUPIED WIRELESS PCS TELECOMMUNICATIONS FACILITY AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

SCALE

THE DRAWING SCALES SHOWN IN THIS SET REPRESENT THE CORRECT SCALE ONLY WHEN THESE DRAWINGS ARE PRINTED IN A 11"X17" OR 24"X36" FORMAT. IF THIS DRAWING SET IS NOT 11"X17" OR 24"X36", THIS SET IS NOT TO SCALE.

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PROPRIETARY INFC THE INFORMATION CONTAI SET OF CONSTRUCTION DU PROPRIETARY BY NATUR OR DISCLOSURE OTHER WHICH RELATES WIRELESS IS STRICTLY	DRMATION NED IN THIS OCUMENTS IS E. ANY USE THAN THAT TO AT&T PROHIBITED.		
STAMP			
PREPARED FOR			
APPROVALS			
GAMALIEL AGUILAR	03/24/23		
GAMALIEL AGUILAR	04/05/23		
JENNIFER GUERRA	06/26/23 DATE		
CONSTRUCTION KATHI RUEHLE SITE ACQUISITION	DATE 07/07/23 DATE		
PROJECT NAM MICROWAVE UI QUEST DIAGNO	PROJECT NAME MICROWAVE UPGRADE SITE NAME QUEST DIAGNOSTICS		
33608 ORTEGA HI SAN JUAN CAPISTRANO, CA	GHWAY ALIFORNIA 92675		
DRAWING DATI 03/25/23 90% ZD REVI 04/05/23 95% ZD REVI 04/19/23 95% ZD REVI 04/23/23 95% ZD REVI 06/13/23 95% ZD REVI 06/13/23 100 ZD REVI 07/13/23 ZONING SUBM 08/16/24 ZD JX COMMI	ES EW (P1-B1) EW (P1-B2) EW (P1-B3) EW (P1-B4) EW (P1-B5) EW (P1-B6) IITTAL (P1-B7) ENTS (P1-B8)		
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GENERAL SPECIFICATIONS PAINTING NOTES & SPECIFICATIONS STRUCTURAL SPECIFICATIONS THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE A GENERAL A GENERAL THE CONTINUED STALE DE UNED GASTOLET TOUR AND STALE TOUR OF REMERY, ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY AT&T MOBILITY UNDER THIS CONTRACT. DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR PRECEDENCE: UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING CENERAL NOTES SHALL APPLY. INFORMATION ON THESE DRAWINGS SHALL HAVE THE FOLLOWING PRECEDENCE. CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF 1. ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE THIS FACILITY IS AN UNOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS. 2. CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER 18. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO A. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS AND IS EXEMPTI FROM DISABLED ACCESS REQUIREMENTS. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING BEMOLITION, ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS, AS WELL AS WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS AND SHALL CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION, SHOULD ANY ERRORS, OMISSION, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY AT&T MOBILITY CONSTRUCTION MANAGER AND THE ARCHITECT IN WRITING, IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE. IF A DISCREPANCY EXISTS AND THE FROJECT MANAGER AND ARCHITECT ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE LOCATE ALL EXISTING UTILITIES, OR CONTACT AN OUTSIDE AGENCY TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, PLANS, SECTIONS AND DETAILS COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS. AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR THE REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE B. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. C. MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS. FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED. EXECUTION OF WORK. WALL INTERIOR FACE STRUCTURAL SLABS 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRE AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY AT&T 2 OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL RESS 5. ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE AT&T MOBILITY BEAMS, GIRDERS & COLUMNS DIMENSIONS NOT SHOW GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GF 20. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER, AT&T MOBILITY, AND THE CITY OR GOVERNING AGENCY. SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1. 21. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION DOCUMENTS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS SHALL BE DONE AFTER THE SITE HAS BEEN AWARDED FINAL INSPECTION BY THE RESPONSIBLE BUILDING ACENCY. ONE SET OF REDLINED DRAWINGS SHALL BE PROVIDED TO THE AT&T MOBILITY CONSTRUCTION MANAGER. 7. FURNISH DROP CLOTHES, SHIELDS, MASKING AND PROTECTIVE METHODS TO NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS 4. SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS IN IT'S COMPLETED FORM. THIS INCLUDES UNDERPINNING EXISTING FOOTINGS WHERE APPLICABLE. PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND ENGINEER. THAT RESULT. FACILITIES. APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SUFFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINKER THAN THE DRY FILM THICKNESS INDICATED. DRAWINGS SHALL NOT BE SCALED. THESE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE SAFETY: THESE STRUCTURAL DRAWINGS REPRESENT THE FINISHED OVER SMALL SCALE DRAWINGS, CONTRACTOR SHALL CHECK ACCURACY STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. 22. THE LATEST EDITION OF ALL PERMITTED AND APPROVED P ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO T FABRICATE ANY MATERIALS. OR BEGIN ANY CONSTRUCTION UNTIL 9. APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO . INCLUSIES LUTION OF ALL PERMITED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDEDNA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB CUPENDEMENT. ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED. THE ACCURACY OF DRAWING DIMENSIONS HAS BEEN VERIFIED AGAINST WATERPROOFING: WATERPROOFING AND DRAINAGE, DETAILS AND 10. CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES AND OTHER DEFECTS ACTUAL FIELD DIMENSIONS SPECIFICATIONS, ALTHOUGH SOMETIMES SHOWN ON STRUCTURAL DRAWING ARE OF GENERAL INFORMATION PURPOSES ONLY. CUNITARIUM STALL CURRELI RUNS, SAUSS, MISSES AND UTHER MOBILITY INCLUDING INADEGUATE COVERAGE AS DIRECTED BY THE AT&T MOBILITY CONSTRUCTION MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID ALL MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDICATED OR IMPLIED BY THESE DRAWINGS. WATERPROOFING AND DRAINAGE ARE SOLELY THE DESIGN RESPONSIBILITY OF THE ARCHITECT. ALLOWED SUPERINTENDENT BI EMISHES B STEEL CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY CONSTRUCTION MANAGER, THE PROPERTY OWNER AND THE ARCHITECT IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK. 23. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS, EXCEPT FOR THAT SPECIFIED AS REMAINING THE PROPERTY OF THE BUILDING OR PROPERTY OWNER AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEAN-UP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY AND VACUUM CLEAN CONDITION, FREE DAY AND VACUUM CLEAN CONDITION, FREE B PAINTING SCOPE ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM A-36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC. 1. PAINT THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE COATING SYSTEM INDICATED PERIOD ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED ON PLANS. PAINTING SCOPE SURFACE TO BE PAINTED COATING SYSTEM PAINT DO NOT PAINT N/A FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE AT COMPLETION OF WORK , JIPMENT & CABINETS OTHER THAN THE BTS UN 3. STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM D. TIMBER EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY CONSTRUCTION MANAGER AND THE ARCHITECT SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK. ANTENNA COVERS, TILT BRACKETS, MOUNTING BRACKETS AND ASSOCIATED HARDWARE, CABLE AND CABLE COVERS EXPOSED TO VIEW, EXPOSED CONDUIT AND HANGERS, ETC. 24. THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY. FLASHING UNITS, METAL TRM AND OTHER METAL SURFACES STUCCO, CONCRETE, CONCRETE BLOCK AND CEMENTIOUS TYPE FINISH SYSTEMS. 4. STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500. PLYWDD, LUMBER AND WOOD TRIM INCLUDING THE BACK SIDE OF ALL SCREENWALLS 5. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD. ALL WELDERS SHALL BE PROPERLY QUALIFIED AND BE PRE-APPROVED. SURPLUS METAL SHALL BE DRESSED OFF TO SMOOTH, EVEN SURFACES WHERE WELDS ARE NOT EXPOSED TO VIEW. ALL WELDING 25. ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED CONCRETE POLES METAL POLES AND METAL POLE STAND-OFF 26. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF AND WHERE APPLICABLE TO THIS FACILITY AND PROJECT SITE. THE CONTRACTOR SHALL VERIFY ALL TELEPHONE & RADIO EQUIPMENT LAYOUTS, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND FINAL LOCATIONS WITH AT&T MOBILITY CONSTRUCTION MANAGER PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ERICSSON RADIO SYSTEMS. SHALL COMPLY WITH THE LATEST A.W.S. SPECIFICATIONS. C. COATING SYSTEM SPECIFICATIONS 6. THE FOLLOWING WELDING EQUIPMENT MUST BE USED: 27. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT 1. DTM ACRYLIC COATING (SERIES B66) BY SHERWIN WILLIAMS CO. 1MIL DET 250 AMP WELDERS ROD OVENS. LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA CONSTRUCTION. PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (B66A50) ALL SYMBOLS & ABBREVIATIONS USED ON THE DRAWINGS ARE GRINDERS CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE AT&T MOBILITY CONSTRUCTION MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE 100% ACRYLIC, LATEX COATING EQUIVALENT TO A-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO COATS OVER 28. ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 7. NO BUZZ BOXES SHALL BE USED. SPECIFIED PRIMER ALL STRUCTURAL STEEL SHALL MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR. 29. ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED PAINT & PRIMER SPACES SUCH AS AT WALL AND ROOF PENETRATIONS SHALL BE CAULKED OR SEALED TO LIMIT INFILTRATION OF AIR AND MOISTURE. IO THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS. LICENSES. ANTENNAS PRIMER – KEM AQUA E61–W525 AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO AT&T MOBILITY. 9. STEEL THAT HAD BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT. 30. UPON COMPLETION OF CONSTRUCTION, AT&T MOBILITY CONSTRUCTION TOPCOAT - COROTHANE II B65W200/B60V22 MANAGER SHALL CONDUCT A WALK-THRU WITH PROPERTY OWNER OR REPRESENTATIVE OF PROPERTY OWNER. 10. WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS SPECIFICALL NOTED "FULL 1. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE IN THE SITE AND SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT. BTS CABINET PRIMER - KEM AQUA E61-W525 31 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TOPCOAT - COROTHANE II B65W200/B60V22 STRESS" AT END OF WELD SYMBOL. SYSTEM EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY AT&T MOBILITY. COAXIAL JUMPER CABLES PRIMER – AS REQUIRED FOR ADHESION. APPLY6 ONE COAT OF KEM AQUA WATER REDUCIBLE PRIMER E61W25 REDUCED 25% TOPCOAT – 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2 C CONCRETE 32 INSTALL ALL FOURPMENT AND MATERIALS PER THE LATEST EDITION OF 1. STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATION TAKE PRECEDENCE. 12. WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE: NRCA NATIONAL RODFING CONTRACTORS ASSOCIATION ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS LOCATION STRENGTH WT. SLUMP ADMIXTURE RAW STEEL PRIMER - KEM BOND HS B50WZ4, DMT ACRYLIC PRIMER A. SLAB&FOOTING 3000PSI 150PCF 4" NONE ROOFING & WATERPROOFING NOTES TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2 INSPECTION: CONCRETE WITH SPECIFIED STRENGTH GREATER THAN 2500PSI SHALL BE CONTINUOUSLY INSPECTED DURING PLACEMENT BY A DEPUTY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE BUILDING DEPT. O'HARE INTERNATIONAL CENTER 10255 W. HIGGENS ROAD, SUITE 600 CONTRACTOR SHALL CONTACT BUILDING OWNER TO DETERMINE IF ROOF IS UNDER WARRANTY. CONTRACTOR SHALL GUARANTEE THAT ANY AND ALL NEW ROOFING WORK MEETS THE SPECIFICATION OF ANY EXISTING ROOFING WARRANTES SUCH THAT THE WARRANTY IS NOT MADE INVALID AS A RESULT OF THIS WORK. IF IT IS DETERMINED GALVANIZED METAL ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR PRIMER COAT AND FINISH COAT ROSEMONT. IL 60018 (GALVITE HIGH SOLIDS OR DTM PRIMER/FINISH) SHEET METAL AND AIR CONDITIONING CONTRACTORS SMACNA STAINLESS STEEL PRIMER – OTM WASH PRIMER, B71Y1 TOPCOAT – 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2 REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN PREFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS: THE STRUCTURAL ENGINEER JATIONAL ASSOCIATION 4201 LAFAYETTE CENTER DRIVE THAT THE ARCHITECT'S DETAILING IS INADEQUATE OR IMPROPER OR CHATILLY, VA 22021-1209 ANY OTHER DISCREPANCY IS FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE AT&T MOBILITY & SMALLER BARS......GRADE 40 #4 INTERNATIONAL INSTITUTE FOR LATH AND PLASTER PRE-PRIMED STEEL TOUCH UP ANY RUST OR UN-PRIMED STEEL WITH KEM BOND HS, SSOWZ4 ITLP PROJECT MANAGER IN WRITING. ULTIMATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE ORIGINAL ROOF #5 & LARGER BARS......GRADE 60 ALL BARS AT CAISSON FOOTING...GRADE 60 TRANSFER ROAD 820 TRANSFER RUAD ST. PAUL, MN 55114-1406 MANUFACTURER'S SPECIFICATIONS 14. ALASKAN YELLOW CEDAR GLUE-LAMINATED BEAMS LASKAN YELLOW CEDAR QLUE-LAMINATED BEAMS LUMBER SPECIES: ALASKAN YELLOW CEDAR (A.C.) CONFORMING TO 20F-V12 STRENGTH PROPERTIES: FB BOTTOM FIBER BENDING STRESS 2000PSI MIN. FU STHEAR STRESS 1000PSI MIN. FV STHEAR STRESS 100PSI MIN. FC COMPRESSION STRESS PERPENDICULAR TO GRAIN 560PSI MIN. C MODULUS ELASTICTY 1400KSI MIN. CAMBER TO RADIUS OF 1600° U.O.N. ALL CIE'S SHALL BE CARPICATED WITH EXTEPIOP CLUE ALUMINUM & COPPER FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150. PIER/CAISSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150. 13. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF CONTRACTOR SHALL USE METHODS AND MATERIALS SIMILIAR AND COMPATIBLE WITH EXISTING MATERIALS & CONDITIONS FOR ROOF PATCHING, NEW PENETRATIONS, ETC. PRIMER - DTM WASH PRIMER, B71Y1 ANUTACTURE SUBJECT ON MALERIALS FER THE DATEST EDUTION E MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS COFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR BULATIONS TAKE PRECEDENCE. TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2 В. CONCRETE MASONRY PRIMER – PRO MAR EXTERIOR BLOCK FILLER TOPCOAT – 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE THE CONTRACTOR SHALL PROPERLY SEAL ALL NEW ROOF & BUILDING ENVELOPE PENETRATIONS SUCH THAT THE INTEGRITY OF THE ORIGINAL BUILDING ASSEMBLY AND ALL APPLICABLE WARRANTIES ARE MAINTAINED. 14. THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGARS OR OTHER SUPPORTS FOR ALL ITEMS REQUIRING THE SAME. FOLLOWING CONCRETE STUCCO(EXISTING) 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH 15. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF FOUNDATIONS & SLABS 9" OR LESS: 3/4" GRAVEL 4. IF IT DEEMED NECESSARY TO REMOVE EXISTING FINISHES AND/OR PIER/CAISSON FOOTING: 1" GRAVEL. IF II DEEMED INCLOSSART TO REMOVE EASING FINISHES AND/OR MATERIALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR= RECONSTRUCTING FINISHES AND MATERIALS TO LIKE-NEW CONDITION. CONTRACTOR SHALL MAINTAIN THE ORIGINAL COLORS, TEXTURES & FINISHES UNLESS SPECIFICALLY NOTED TO THE CONTRARY OR APPROVED BY THE AT& MOBILITY CONSTRUCTION MANAGER IN PRIMER – PRO MAR MASONRY CONDITONER B-46-W21000 TOPCOAT – SUPERPAINT A-80 SERIES A-89 SATIN A-84 GLOSS 6. SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN INDUSTRIAL SAFETY (OSHA) REQUIREMENTS. ALKALIS, ORGAN CONSUMPTION. WOOD 16. THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, AND WOUD – A-100 EXTERIOR ALKYD WOODD PRIMER Y-24W20 TOPCOAT – 2 COATS A-100 LATEX HOUSE & TRIM SHEEN TO MATCH ADJACENT SURFACES ADVANCE MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C-94. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY A TESTING AGENCY. THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, AND AT&T MOBILITY PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STARS, OR EQUIPMENT, ETC. SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF AT&T MOBILITY, AND THE PROPERTY OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR. 5. AT THE AT&T MOBILITY CONSTRUCTION MANAGER'S DIRECTION. THE AT THE AT&T MOBILITY CONSTRUCTION MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVUE ROOFDOF WALK PADS TO ALL NEW EQUIPMENT INCLUDING ANTENNAS AND BTS UNITS AND ALONG COAX CABLE ROUTING. ON CONVENTIONAL ROOFING, THE WALK PADS SHALL BE "DUCK BOARDS" AS MANUFACTURED BY APC OR EQUAL. ON SPECIAL ROOFING SYSTEMS SUCH AS SINGLE MEMBRANE ROOFS WILL REQUIRE A SPECIFIC PRODUCT AS NORED ON PLANS OR AS REQUIRED BY NOTES 1 & 2 ABOVE. GLU-LAM BEAMS PRIMER - A-100 EXTERIOR ALKYD WOOD PRIMER Y-24W20 TWO COATS SHOP SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE FLOPPED APPLIED PER GLU-LAM MANUFACTURER'S SPECIFICATIONS TOPCOAT – SUPERPAINT A-80 SERIES A-89 SATIN A-84 GLOSS TWO COATS POR FIELD APPLIED AT CONTRACTOR'S OPTION THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS, CAISSON, AND DROP CAPITALS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES, TRUNKS OR PUMP HOSE SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FT. FIELD CUTS/DAMAGE(PRIOR TO PRIME & PAINT)

FIRST & SECOND COAT - CUPRINOL CLEAR WOOD PRESERVATIVE #158-0356 ALL PENETRATIONS INTO FINISHED CLU-LAMS SHALL BE CAULKED WITH

STEEL TOUCH UP STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZED PAINT

"SIKAFLEX" SEALANT

1. AT THE AT&T MOBILITY PROJECT MANAGER'S DIRECTION, THE

PENETRATION AT FIRE RATED ASSEMBLIES

AI THE ACRI MUBILITY PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "HILL" HIGH PERFORMANCE FIRE STOP SYSTEM #FS601 AT ALL FIRE RATED PENETRATIONS INSTALLED PER MANUFACTURER'S LATEST INSTALLATION SPECIFICATIONS.
 ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.

9. SPLICES OF REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 30 DIAMETERS AND SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED WHEREVER POSSIBLE.

10. REAR CLEARANCE: MINIMUM COVERAGE FOR JOISTS, BEAMS, GIRDERS ADD COLUMNS SHALL BE TO FACE OF STIRRUPS OR TIES. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE FOR REINFORCING BARS TO FACE OF BAR SHALL BE AS FOLLOWS:

CONCRETE IN CONTACT WITH EARTH UNFORMED CONCRETE IN CONTACT WITH EARTH, FORMED WALL, EXTERIOR FACE 1-1/2" 3/4" 3/4" 1-1/2"

11. PENETRATIONS: NO SLEEVES OR CHASES SHALL BE PLACED IN BEAMS, FENEIRATIONS: NO SLEEVES OR CHASES SHALL BE FLACED IN DEAMS, SLABS, WALLS AND COLUMNS, EXCEPT THOSE SHOWN ON THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATIONS OF ANY ADDITIONAL SLEEVES OR CHASES. ALL FLUMBING, ELECTRICAL AND MECHANICAL OPENINGS SHALL BE SLEEVES. CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTINED FROM THE STRUCTURAL

12 EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT EMBEDUED TEMS: CONDUTT FLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK, UNLESS SLAB IS LOCALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE SIX INCHES.

13. ANCHORING: ALL ANCHOR BOLTS, REINFORCING STEEL, DOWELS, INSERTS, ETC., SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. NO REPOSITIONING DURING CONCRETE POUR IS

14. CURING: SLABS SHALL BE SPRAYED WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUNDS USED ON CONCRETE WHERE TILE OR FLOOR COVERING IS TO BE BONDED TO THE CONCRETE SURFACE SHALL BE APPROVED BY THE TILE OR FLOOR COVERING MANUFACTURER. KEEP SLAB WET FOR 7 DAY MINIMUM

15. CONSOLIDATION: ALL CONCRETE SHALL BE VIBRATED AS IT IS BEING PLACED WITH ELECTRICALLY OPERATED VIBRATING EQUIPMENT

ALL FRAMING LUMBER FOR 4X AND LARGER BEAMS SHALL BE NO. 1 GRADE DOUGLAS FIR., S45, UNLESS NOTED OTHERWISE ON THE DRAWINGS

2. ALL FRAMING LUMBER FOR 2X RAFTERS AND JOISTS SHALL BE NO.2 GRADE DOUGLAS FIR, S45, UNLESS NOTED OTHERWISE ON DRAWINGS

STRIPPING, BLOCKING, BACKING AND OTHER NON-STRUCTURAL LUMBER SHALL BE NO. 2 OR STD & BTR GRADE DOUGLAS FIR, S4S. 2X4 STUD WALLS SHALL BE D.F. STANDARD & BTR.

4. ALL BEAMS, JOISTS AND RAFTERS SHALL BE INSTALLED WITH CROWN

5. ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A SPAN INDEX RATIO 32/16. EDGE NAIL WITH8D AT 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. FGIELD NAIL WITH 8D AT 12" O.C

6 PLYWOOD SHEETS SHALL BE LAID WITH THE FACE GRAIN PERPINDICULAR TO SUPPORTS AND WITH THE EDGES STAGGERED, UNLESS NOTED OTHERWISE ON THE PLANS.

PLYWOOD SHALL BE GRADE MARKED BY DFPA, TECO, OR PTL AND SHALL CONFORM TO PS 1-83.

THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 24% AT THE TIME OF INSTALLATION.

MINIMUM NAILING SHALL COMPLY WITH TABLE 23-1-Q OF BUILDING ALL NAILS SHALL BE COMMON WIRE NAILS.

10. ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.

11. LAG BOLTS SHALL BE SCREWED INTO PLACE, NOT DRIVEN. LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES WITH A DIAMETER EQUAL TO 75% DIAMETER OF BOLT.

12. CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN THE PLANS SHALL BE STRONG CONNECTORS AS MANUFACTURED BY THE SAMSON COMPANY. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY

13. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY O CONCRETE SHALL BE WOLMANIZED PRESSURE TREATED LUMBER OR A NATURALLY DECAY RESISTANT LUMBER SUCH AS REDWOOD CEDAR.

ALL GLB'S SHALL BE FABRICATED WITH EXTERIOR GLUE.

ALL OLD S UTE OF GLB'S SHALL CONFORM TO THE UBC. GLU-LAM MATERIAL SHALL BE IN ACCORDANCE WITH ANSI/AITC A190.1 AND ASTM D3737.

125 KLUG CIRCLE CORONA, CALIFORNIA 92880		
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CIVIL OF CALLORS	Dipitally signed by Joseph Insell King Sate: 2023.09.21 15:42:17 04'00'	
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APPROVALS		
GAMALIEL AGUILAR 90% ZDS	03/24/23 DATE	
GAMALIEL AGUILAR 95% ZDS	04/05/23 DATE	
JENNIFER GUERRA	06/26/23 DATE	
CONSTRUCTION	DATE	
KATHI RUEHLE	07/07/23	
SITE ACQUISITION	DATE	

MasTec

Natwork Solutions

PROJECT NAM MICROWAVE UPGRADE QUEST DIAGNOSTICS

33608 ORTEGA HIGHWAY SAN JUAN CAPISTRANO, CALIFORNIA 92675

	DRAWING DATES
3/25/23	90% ZD REVIEW (P1-B1)
4/05/23	95% ZD REVIEW (P1-B2)
4/19/23	95% ZD REVIEW (P1-B3)
4/23/23	95% ZD REVIEW (P1-B4)
6/13/23	95% ZD REVIEW (P1-B5)
6/26/23	100 ZD REVIEW (P1-B6)
7/13/23	ZONING SUBMITTAL (P1-B7)
8/16/24	ZD JX COMMENTS (P1-B8)

SHEET TITLE

SPECIFICATIONS AND NOTES

T-2



ON	NORTHING	EASTING	ELEVATION	
	2,150,595.4741	6,168,438.8868	686.74 FEET (NAVD88)	
	2,181,843.0390	6,203,779.5841	2,772.38 FEET (NAVD88)	
PING	MAPPING	GRID COMBINATION	NORTHING	EASTING
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ABUTTER'S RIGHTS RELINQUISHED ASPHALT BERM BARRICADE BUILDING LINE BUILDING OVERHANG LINE CENTER LINE COMMUNICATION LINE CONCRETE/BLOCK WALL CONCRETE CURB CONCRETE CURB & GUTTER CONTOUR LINE-MAJOR CONTOUR LINE-MINOR DRIVEWAY EASEMENT LINE EDGE OF PAVEMENT EDGE OF WATER/FLOWLINE EDGE OF ROCK ELECTRIC LINE FEMA FLOOD ZONE BOUNDARY FENCE LINE FIBER OPTICS LINE FIRE SERVICE LINE & VALVE GAS_LINE—VALVE_& METER GUARD RAIL HANDRAIL LOT LINE MONUMENT/MONUMENT LINE OVERHEAD POWER LINE PROPERTY LINE RETAINING WALL RECLAIMED WATER LINE & VALVE SANITARY SEWER LINE-MANHOLE & CLEANOUT SIDEWALK SPOT ELEVATION STORM DRAIN LINE-MANHOLE & CATCH BASIN STORM DRAIN LINE-MANHOLE & CATCH BASIN STREET LIGHT CONDUIT LINE TELEPHONE LINE TRAFFIC SIGNAL CONDUIT LINE ACCESSIBLE PARKING SYMBOL AREA DRAIN BACKFLOW PREVENTION DEVICE BLOWOFF VALVE ELECTROLIER FIRE DEPARTMENT CONNECTION FIRE HYDRANT GAS METER GUY ANCHOR POWER POLE/JOINT POLE TRANSFORMER TRANSMISSION TOWER TRAFFIC SIGNAL POLE TRAFFIC SIGN TREE UTILITY BOX WALK-BOLLARD LIGHT WATER VALVE WELL

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PREPARED FOR



APPROVALS

90% CDS	DATE
100% CDS	DATE
100% CDS WITH STRUCTURALS	DATE
CONSTRUCTION	DATE
SITE ACQUISITION	DATE

PROJECT NAME MICROWAVE UPGRADE SITE NAME QUEST DIAGNOSTICS

FA NUMBER

33608 ORTEGA HIGHWAY SAN JUAN CAPISTRANO, CALIFORNIA 92675

DRAWING DATES 03/25/23 90% CD REVIEW (P1-B1) 04/05/23 95% CD REVIEW (P1-B2)

SHEET TITLE TOPOGRAPHIC **SURVEY**

ABBREVIATIONS

ASPHALTIC CONCRETE	LAT	I ATITUDF
AIR CONDITIONING UNIT	LONG	I ONGITUDE
ARFA DRAIN	MB	MAILBOX
ANTENNA	MON	MONUMENT
BACK FLOW PREVENTER	MOWC	MOWCURB
BUILDING	MS	MISC STRUCTURF
BOLLARD	PCB	PEDESTRIAN CALL BUTTON
BACK OF ROLLING CURB	PLR	PLANTER
CONCRETE	PM	PARKING METER
CATCH BASIN	QA	QUFFN ARM
	(R)	RADIAL LINE
CONDUIT	RCM	RECLAIMED WATER METER
	RCP	RECLAIMED WATER PEDESTAL
	RCV	RECLAIMED WATER VALVE
	RF	ROOF
	ROW	RIGHT OF WAY
	SDMH	STORM DRAIN MANHOLE
FLEVATION	SSMH	SANITARY SEWER MANHOLE
	22	SANITARY SEWER
	0.022	SANITARY SEWER CLEAN OUT
ELECTRIC MARTICLE	(T)	
EDGE OF PAVEMENT	TOR	
	TR	
FOUIPMENT	TC	
	тиц	
TRANSFORMER	TD	TELECOM MANITOLE
	TDR	
	TP	
	TRW	
FLOWLINE	TS	
CHAINLINK FENCE	TSB	
FOUND	TV	
IRON FENCE	TW	
WOOD FENCE		
FACE OF WALL		
GUY ANCHOR	VEG	VEGETATION
GAS METER	WF	WATER FOUNTAIN
GAS RISER	WH	
GROUND	WM	WATER METER
GAS VALVE	WR	WATER RISER
HANDICAP RAMP	WIX	WATER VALVE
HAND HOLF	** *	
IRRIGATION CONTROL BOX		
IRRIGATION CONTROL VALVE		

LS-1

LEGEND







44321

NUMBER:

10B

ENLARGED SITE PLAN KEYNOTES

(N) AT&T 3'-0"Ø MICROWAVE ANTENNA WITH (N) ODU'S MOUNTED TO (N) MONO-EUCALYPTUS; SEE DETAIL 2/A-3. (N) 70'-0" TALL MONO-EUCALYPTUS; SEE TOWER DRAWINGS.

(N) AT&T 4'-0" X 4'-0" CONCRETE PAD.

(N) AT&T MICROWAVE RADIO EQUIPMENT MOUNTED IN (N) FLX-25 EQUIPMENT CABINET AND TO BE GROUNDED TO (N) GROUND RING.

- (N) (2) AT&T FIBER; SEE SHEET 2/A-4.1.
- < 5a > (N) (2) AT&T COAX; SEE SHEET 1/A-4.1.
- (N) 30'-0" X 30'-0" CMU WALL TO MATCH (E).

< 6A ` (E) PARTIAL RETAINING WALL BELOW (N) CMU WALL

(6B) (N) CHAINLINK FENCE W/ ACCESS GATE

(E) CMU WALL ENCLOSURE.

(N) ICE-BRIDGE

(E) ASPHALT

(E) TREE TO BE REMOVED AS REQUIRED. CONSTRUCTION TO CONFIRM IN FIELD

(E) DENSE VEGETATION TO BE REMOVED AS REQUIRED. GROUND TO BE LEVELED FOR (N) COMPOUND AREA ..

- (N) H-FRAME WI/ (N) DISTRIBUTION PANEL CONTAINING; (N) (4) 20AMP BEAKERS FOR RECTIFIERS (N) (1) 20AMP BEAKERS FOR AC SERVICE AND LIGHTS SEE DETAILS 1&4/A-4.3
- (13) (N) POWER, ALARM AND TELCO CONDUITS TO BE RUN IN (N) UNDERGROUND ROUTE AS REQUIRED FROM (E) QUEST DIAGNOSTIC COMPOUND TO NEW DISTRIBUTION PANEL ON (N) H-FRAME IN (N) COMPOUND AREA. SEE DETAIL 2&3/A-4.3.

ENLARGED SITE PLAN GENERAL NOTES

- A. OTHER CARRIER ANTENNAS NOT SHOWN FOR CLARITY
- B. GROUND ALL (N) EQUIPMENT AND COAX PER DETAIL 3/A-3.
- C. CONTRACTOR TO PROVIDE ALL LABOR TO INSTALL COAX, RETS AND ANTENNAS.
- D. CONTRACTOR TO PROVIDE ALL COAX, CONNECTORS, ANCILLARY EQUIPMENT (INCLUDING WEATHER STRIPPING, GROUND KITS, ETC.).
- E. CONTRACTOR TO COLOR CODE ALL COAX. COLORED BANDS OF TAPE ON COAX IDENTIFY SECTOR, FREQUENCY, TECHNOLOGY, AND TRANSMIT GROUP AS FOLLOWS ON ALL COAX MODIFIED OR INSTALLED ONI Y
- F. WHEN ANTENNA LINES ARE DIPLEXED, THE COLOR CODE OF THE HIGHEST FREQUENCY PREVAILS (I.E. UMTS DIPLEXED WITH TDMA SHOULD HAVE COLOR 4 BANDS).
- G. ALL ANTENNAS AND ANTENNA CABLE SHALL BE FURNISHED BY CONTRACTOR AND INSTALLED BY ANTENNA INSTALLATION CONTRACTOR
- PRIOR TO PLACEMENT OF ANTENNA POLE MOUNTS, THE CONTRACTOR SHALL VERIFY THAT THE AZIMUTH AND DIMENSIONS SHOWN ON THE PLANS MATCH ACTUAL FIELD CONDITIONS. ALLOWABLE TOLERANCE: HORIZONTAL ALIGNMENT = $\pm 5^\circ$; VERTICAL ALIGNMENT = $\pm 1^\circ$.

(13)

- ANTENNA INSTALLATION CONTRACTOR SHALL PROVIDE ALL CONDUIT, CABLE TRAY, GROUNDS, ETC. FOR COMPLETE INSTALLATION OF ANTENNAS AND CABLES SHOWN AND INTENDED AS REQUIRED FOR A COMPLETE OPERATING SYSTEM IN ACCORDANCE WITH CONTRACTOR STANDARDS.
- J. IN NO CASE SHALL THERE BE ANY MORE THAN TWO (2) 90' TURNS (OR EQUIVALENT) IN ANY CONTINUOUS LENGTH OF CONDUIT BETWEEN PULL BOXES OR SIMILAR FEATURES.
- ANTENNA CONDUIT SHALL ONLY INCLUDE FACTORY-MADE LARGE RADIUS SWEEPS AT ALL CHANGES IN DIRECTION. SWEEP RADIUS SHALL BE 18" MINIMUM ABOVE GROUND AND 36" MINIMUM BELOW GROUND.
- CONDUIT SHALL BE 3"Ø MINIMUM. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. ALL EXPOSED CONDUIT ABOVE GRADE LEVEL SHALL BE IMC OR RIGID GALVANIZED. ALL EXPOSED CONDUIT PROTECTED IN A BUILDING OR ON A ROOF SHALL BE EMT OR UV STABILIZED PAINTED SCHEDULE 80 PVC
- M. IN HIGH TRAFFIC AREAS OR WHERE SUSCEPTIBLE TO DAMAGE CONTRACTOR SHALL PROVIDE FORMED 14 GA. GALVANIZED SHEET METAL COVER OVER COAXIAL CABLE ROUTES. WHERE CABLE IS RUN ON THE WALL, ATTACH UNISTRUT TO WALL AND COVER WITH 14 GA. GALVANIZED FORMED SHEET METAL COVER OR MATERIAL AS DIRECTED BY CONTRACTOR CONSTRUCTION MANAGER.
- N. VERIFY ROUTE AND LENGTH OF CABLE PRIOR TO CUTTING, ADJUST INDICATED ROUTE AS REQUIRED TO CLEAR (E) EQUIPMENT AT FACILITIES.
- O. MAXIMUM LENGTH OF 7/8" COAX CABLE SHALL BE 140'-0". MAXIMUM LENGTH OF 1-1/4" COAX CABLE SHALL BE 190'-0". MAXIMUM LENGTH OF 1-5/8" COAX CABLE SHALL BE 235'-0".
- P. VERIFY MODEL NUMBERS OF ANTENNAS WITH CONTRACTOR SERVICES.
- Q. THE CONTRACTOR SHALL PROVIDE TESTING OF ANTENNAS AND SHALL PROVIDE DOCUMENTATION TO THE CONTRACTOR PROJECT MANAGER.
- R. GENERAL CONTRACTOR TO VERIFY ALL TORQUE TOLERANCES PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

ARE EFF

COMPOUND PLAN



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EXISTING ELEVATION KEYNOTES

(1) (E) CMU WALL.

(E) COMPOUND ACCESS GATE.

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(E) OTHER GENERATOR.

2 (E) COMPOUND ROAD.

3 (E) RETAINING WALL

4 (E) TREE TO BE REMOVED AS REQUIRED. CONSTRUCTION TO CONFIRM IN FIELD.

5 (E) DENSE VEGETATION TO BE REMOVED AS REQUIRED. GROUND TO BE LEVELED FOR (N) COMPOUND AREA..









	11X17 SCALE: 1/16" = 1'-0"
PROPOSED NORTHWEST ELEVATION	24X36 SCALE: 1/8" = 1'-0"

(1) (E) CMU WALL.

SHALL BE STEALTH AND PLACED OR CONSTRUCTED SO THAT	
WIRELESS FACILITY IS BELOW ANY MAJOR RIDGELINE AS	
THE ORANGE COUNTY GENERAL PLAN.	
UND NOT TO BE VISIBLE FROM A POINT FIVE (5) FEET HIGH	
ITERLINE OF THE SCENIC HIGHWAY.	



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16'

4' 8'

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44321 NUMBER: BOL



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	A a stec Network Solutions 125 KLUG CIRCLE CORONA, CALIFORNIA 92880 PROPRIETARY INFORMATION
(N) MONO-EUCALYPTUS	THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AT&T WIRELESS IS STRICTLY PROHIBITED.
(N) AT&T PIPE MOUNT; SEE DETAIL 1/A-3.	STAMP State King State State King State State
NONE	CAMALIEL AGUILAR 03/24/23
	90% ZDS DATE GAMALIEL AGUILAR 04/05/23
	95% ZDS DATE
	JENNIFER GUERRA 06/26/23 100% ZDS DATE
	KATHI RUEHLE 07/07/23
	SITE ACQUISITION DATE
	PROJECT NAME MICROWAVE UPGRADE SITE NAME QUEST DIAGNOSTICS 33608 ORTEGA HIGHWAY SAN JUAN CAPISTRANO, CALIFORNIA 92675
	DRAWING DATES 03/25/23 90% ZD REVIEW (P1-B1) 04/05/23 95% ZD REVIEW (P1-B2) 04/19/23 95% ZD REVIEW (P1-B3) 04/23/23 95% ZD REVIEW (P1-B4) 06/13/23 95% ZD REVIEW (P1-B5) 06/26/23 100 ZD REVIEW (P1-B5) 06/26/23 ZONING SUBMITAL (P1-B7) 08/16/24 ZD JX COMMENTS (P1-B8)
	SHEET TITLE
RING	ANTENNA SPECIFICATIONS
NT DETAIL SCALE: NONE	1 A-3



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		(.I.c

• Split-mount or standalone configuration • Enterprise broadband connectivity

(1 x 100/1000 Base T RJ45 PFoE and 2 x

 100x1000 Base T RJ45 used as default management port or as user port

SCALE:

NONE







NOTE: • ENG TO 1 • ZON AND CON SATE, ULL POST	NEERING TO REVIEW BUILDING PERMIT SI ING SET DETAILS PI NOT TO BE USED STRUCTION	/ PRIOR JBMITTAL. RELIMINARY FOR	*Mas Network CORONA, CALIF	Tec Solutions DRNIA 92880
TOP BRACE RAIL				
			PROPRIETARY	INFORMATION
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				at&t
	00415		APPRO	VALS
	SCALE:	3	GAMALIEL AGUILAR	03/24/23
	NONE		90% ZDS	DATE
NOTE: • ENG	NEERING TO REVIEW	PRIOR	GAMALIEL AGUILAR	04/05/23
TO • ZON	BUILDING PERMIT SU ING SET DETAILS PE	JBMITTAL. RELIMINARY	95% ZDS	DATE
AND CON	NOT TO BE USED STRUCTION	FOR	JENNIFER GUERRA	06/26/23
			100% ZDS	DATE
				DATE
			SITE ACQUISITION	07707723 DATE
<u>↓</u>				UPGRADE
			33608 ORTEG SAN JUAN CAPISTRANC	A HIGHWAY), CALIFORNIA 92675
			DRAWING 03/25/23 90% ZD	DATES REVIEW (P1-B1)
			04/05/23 95% ZD 04/19/23 95% ZD 04/23/23 95% ZD 06/13/23 95% ZD 06/26/23 100 ZD 07/13/23 ZONING S 08/16/24 ZD JX CO	REVIEW (P1-B2) REVIEW (P1-B3) REVIEW (P1-B4) REVIEW (P1-B5) REVIEW (P1-B6) SUBMITTAL (P1-B7) OMMENTS (P1-B8)
			SHEET	TITLE
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				2
	SCALE:	4		
	N.T.S.		l	
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JOB NUMBER: 44321



В

VHLPX3-11W-4WH/A



0.9m | 3 ft ValuLine® High Performance Low Profile Antenna, 10.125–11.700 GHz, PDR100 flange, white antenna, composite broadband gray radome without flash, standard pack—one-piece reflector

Product Classification	
Product Type	Microwave antenna
Product Brand	ValuLine®
General Specifications	
Antenna Type	VHLPX - ValuLine® High Perform polarized
Antonna Input	PDP100
	White
Reflector Construction	One-piece reflector
Padome Color	Grav
Padome Material	Composite Broadband
	No
Side Struts Included	0
Side Struts, Optional	1 inboard
Dimensions	
Diameter, nominal	0.9 m 3 ft
Mechanical Specifications	
Compatible Mounting Pipe Diameter	90 mm-120 mm 3.5 in-4.7 in
Fine Azimuth Adjustment Range	±15°
Fine Elevation Adjustment Range	±15°
Wind Speed, operational	180 km/h 111.847 mph
Wind Speed, survival	250 km/h 155.343 mph

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NOT USED

ANTENNA SPECIFICATIONS

SCALE:

NONE

2

nance Low Profile Antenna, dual-

COMMSCOPE*

SCALE:

NONE

	••Mast Network Sol 125 KLUG CIRCLE CORONA, CALIFORNIA9	ec utions
	PROPRIETARY INFOR THE INFORMATION CONTAINE SET OF CONSTRUCTION DOCL PROPRIETARY BY NATURE. OR DISCLOSURE OTHER TH WHICH RELATES TO WIRELESS IS STRICTLY PR	MATION D IN THIS JMENTS IS ANY USE HAN THAT O AT&T OHIBITED.
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	APPROVALS	
	GAMALIEL AGUILAR	03/24/23
	90% ZDS	DATE
	GAMALIEL AGUILAR 95% ZDS	04/05/23 DATE
	JENNIFER GUERRA	06/26/23
	100% ZDS	DATE
		07/07/23
	SITE ACQUISITION	DATE
	PROJECT NAME MICROWAVE UPO SITE NAME QUEST DIAGNOS 33608 ORTEGA HIGH SAN JUAN CAPISTRANO, CALIF	STICS
	DRAWING DATES 03/25/23 90% ZD REVIEW 04/05/23 95% ZD REVIEW 04/19/23 95% ZD REVIEW 04/19/23 95% ZD REVIEW 06/13/24 95% ZD REVIEW 06/13/23 52% ZD REVIEW 06/26/23 100 ZD REVIEW 07/13/23 ZONING SUBMITI 08/16/24 ZD JX COMMENT	(P1-B1) (P1-B2) (P1-B3) (P1-B4) (P1-B5) (P1-B6) AL (P1-B7) TS (P1-B8)
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JOB NUMBER: 44321



				SHEET TITLE
				03/25/23 90% ZD REVIEW (P1-B1) 04/05/23 95% ZD REVIEW (P1-B2) 04/19/23 95% ZD REVIEW (P1-B3) 04/23/23 95% ZD REVIEW (P1-B4) 06/13/23 95% ZD REVIEW (P1-B4) 06/26/23 100 ZD REVIEW (P1-B6) 07/13/23 ZONING SUBMITTAL (P1-B7) 08/16/24 ZD JX COMMENTS (P1-B8)
				SAN JUAN CAPISTRANO, CALIFORNIA 92675
				QUEST DIAGNOSTICS
				PROJECT NAME MICROWAVE UPGRADE
				SITE ACQUISITION DATE
				CONSTRUCTION DATE
				JENNIFER GUERRA 06/26/23 100% ZDS DATE
				95% ZDS DATE
				GAMALIEL AGUILAR 04/05/23
107-01 TradeHub21 Singapore 609964. Tel: (65) 6665 6815 Fa 2 of 3	ac: (65) 6896 7535. 1	1/9/2010		GAMALIEL AGUILAR 03/24/23
Info Communications Dis 114			•	APPROVALS
400 N 1000m 57kg/km				
: 20mm				II 😂 at&t
				PREPARED FOR
				E OF CALIFO
				Control Contro
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94 11.47 14.29 20.9 21.83 27	13 29,6	31.59	39.4	STAMP
00 300 450 900 1000 15	00 1800	2000	3000	PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AT&T WRELESS IS STRICTLY PROHIBITED.
-200 -24	20.0	-		PROPRIETARY INFORMATION THE INFORMATION CONTAINED IN THIS
806~960 1700~2200	2500 ~ 2700			
to 2GHz) 90 dB See table A				NETWORK SOLUTIONS 125 KLUG CIRCLE CORONA, CALIFORNIA 92880
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		*Mas Networks 125 KLUG CIRK CORONA, CALIFORT	Tec olutions
		PROPRIETARY INF THE INFORMATION CONT SET OF CONSTRUCTION I PROPRIETARY BY NATION OR DISCLOSURE OTHEI WHICH RELATES WIRELESS IS STRICTLY	CORMATION AINED IN THIS DOCUMENTS IS RE. ANY USE R THAN THAT TO AT&T PROHIBITED.
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2		APPROVAL	s
		GAMALIEL AGUILAR	03/24/23
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\bigvee		95% ZDS	DATE
		JENNIFER GUERRA 100% ZDS	06/26/23 DATE
		CONSTRUCTION	DATE
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	\square	SITE ACQUISITION	DATE
		PROJECT NA	
SCAL	E: 2		
NON		33608 ORTEGA	HIGHWAY CALIFORNIA 92675
#2 AWG TINNE SOLID COPPER	D BARE	DRAWING DA 03/25/23 90% ZD RE 04/05/23 95% ZD RE 04/19/23 95% ZD RE 04/23/23 95% ZD RE 06/13/23 95% ZD RE 06/26/23 100 ZD RE 07/13/23 ZONING SUE 08/16/24 ZD JX COM	TES /IEW (P1-B1) /IEW (P1-B2) /IEW (P1-B3) /IEW (P1-B4) /IEW (P1-B5) /IEW (P1-B5) /IEW (P1-B6) MITTAL (P1-B7) /IENTS (P1-B8)
5/8"ø x 10'-0" (COPPER	SHEET TITI	E
CLAD STEEL ROD		GROUNDING AND DET,	PLAN AILS
SCAL	<u> </u>	G-'	1



A valmont **COMPANY**

ATT QUEST DIAGNOSTICS MW UPGRADE 65'-0" MONOPOLE 33608 ORTEGA HWY. SAN JUAN CAPISTRANO, CA 92675

PROJECT INFORMATION						
DATE: ISE JOB I CUSTOM PRODUC SITE ID: LOCATIO	DATE: JUNE 19, 2023 ISE JOB NO. 18937 By: PB CUSTOMER: LARSON VALMONT PRODUCT: 65'-0" MONOPOLE SITE ID: ATT QUEST DIAGNOSTICS MW UPGRADE LOCATION: 33608 ORTEGA HWY. SAN JUAN CAPISTRANO, CA 92675					
LATITUDI LONGITU	E: 33.50 DE: -117	51897 N 544031 \	N			
DESIGN	CRITERIO	<u>N:</u>				
2022 CBC CATEGOF	, 95 MPH B XY 1, RISK	ASIC WINI	D SPEED, RY II, GRO	TIA-222-H, EXP UND ELEVATIC	POSURE C, TO DN 601'	POGRAPHIC
POLE SP Section S PipeTape Pole Mate Base Plat Anchor B	ECIFICATI hape r erial e olts	ONS 18-SIDE 0.2606 A572-65 ASTM A 2.25"Ø X	D Tapered IN/FT (65 KSI) 572 GR50 (78" ASTN	d) M A615 GR 75		
Pole Section	Length (ft.)	Weight (kips)	Tkns. (in.)	Lap Splice (in.)	Dian Top (in.)	neter Bot (in.)
L1 L2	42.00 27.00	5.310 4.860	0.375 0.438	60.00 	26.120 35.011	37.064 42.047
Mating Pla Base Plat	te	0.259 0.991	1.5 2.25	35.5"Ø w 54.5"Ø w	/ 22"Ø ID / 31 5"Ø ID	
TABLE IN SHALL BE EARTHQU IMPORTA OCCUPAN $S_s = 1.16$	DICATES APPROX JAKE DES NCE FACT NCY CATE	RAW STEE MATELY 2 GN DATA OR (1): 1 GORY: 11 0.929 0.417	EL WEIGH 22% GRE/	ITS. FINAL GAI ATER.	_VANIZED WE	IGHTS
SEISMIC SITE CLA SEISMIC DESIGN E RESPONS ANALYSIS DESIGN L	DESIGN C SS: RESPONS BASE SHE SE MODIFI PROCEDU	ATEGORY E COEFFI AR: CATION F JRE USED nfactored	Y: ICIENT: FACTOR (I EQUIVAL Base Win	D C 0.099 51.468 R): 1.50 ENT LATERAL F d Reactions)	FORCE PROCE	EDURE
Moment = Shear = Axial =	= 33 =	03.734 Fi 51.47 K 45.949 K	t-Kips ips iips			
DEFLECT Elev. (ft.) Top <u>APPURTI</u>	IONS Latera 11.7 ENANCES	50 MPH W I <u>I (in.) Sv</u> 37 1	/ind vay(°) L 1.728	95 MPH Win _ateral (in.) Sv 33.077 4	id way(°) 4.876	
Elevation 15' - 65' 62'-7" 48' 48' 48' 48'	(ft.)	(Qty) (150) (1) (3) (12) (24) (3)		Description Assorted 4', VHLPX3-11 Mount Antennas Radios Raycap	6', 8', 10' Bran MW	iches

GENERAL NOTES:

- 1. ALL STEEL SHALL MEET THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL" ASTM A36. UNLESS OTHERWISE NOTED ON THE STRUCTURAL PLANS OR BELOW.
- 2. ALL ROUND STEEL PIPE SHALL MEET THE REQUIREMENTS OF API-5LX GR. 42 (42 KSI YIELD POINT MATERIAL).
- 3. ALL TUBE STEEL (SQUARE OR RETANGULAR) SHALL MEET THE REQUIREMENTS OF ASTM A500 GRADE B (46 KSI YIELD POINT MATERIAL),
- 4. ALL POLYGON FORMED STEEL SHAFTS SHALL MEET THE REQUIREMENTS OF ASTM A572 GRADE 65 (65 KSI YIELD POINT MATERIAL).
- 5. ALL WELDED CONNECTIONS SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN WELDING SOCIETY AWS 01.1 CODE. ALL WELD ELECTRODES OR WIRE SHALL AT A MINIMUM CONFORM TO E70 ELECTRODES (70 KSI YIELD).
- 6. ALL STEEL SHAPES AND PLATES SHALL BE HOT-DIPPED GALVANIZED ACCORDING TO ASTM A123. ALL STEEL NUTS AND BOLTS AND ASSOCIATED HARDWARE SHALL BE HOT-DIPPED ACCORDING TO ASTM A153.
- 7. WIND TESTING OF PINE TREE BRANCHES HAS BEEN COMPLETED BY THE SUPPLIER OF THE BRANCHES, LARSON. LARSON HAS VERIFIED THE STRENGTH OF THE BRANCHES THROUGH FULL SCALE WIND TESTING. THE WIND AREA USED IN THE CALCULATIONS IS BASED ON THE WIND TEST DATA. THE CALCULATION ACCOUNT FOR PINE TREE BRANCHES ATTACHED AT THE TOP OF THE MONOPOLE. ISE INC. HAS REVIEWED AND APPROVED THE WIND TEST METHODS.
- 8. THE MAIN MONOPOLE STRUCTURE SHALL BE FABRICATED BY A JURISDICTION CERTIFIED FABRICATOR OF CONVENTIONAL STEEL STRUCTURES.
- 9. SPECIAL INSPECTION SHALL BE PERFORMED ACCORDING TO SECTION 1704 OF THE 2022 CBC REFER TO TABLE "SUMMARY OF SPECIAL INSPECTION" ON THIS SHEET.
- 10. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO NOTIFY THE SPECIAL INSPECTOR OR INSPECTION AGENCY (OR THE INSPECTING GEOTECHNICAL ENGINEER) AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. PER THE 2022 CBC ANY WORK THAT REQUIRES SPECIAL INSPECTION THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
- 11. THE LIST OF SPECIAL INSPECTIONS IS IN ADDITION TO INSPECTIONS REQUIRED BY SECTION 110 OF THE 2022 CBC. SPECIAL INSPECTION IS NOT A SUBSTITUTION FOR INSPECTION BY A CITY INSPECTOR.
- 12. THE SPECIAL INSPECTOR SHALL BE APPROVED BY THE LOCAL JURISDICTION TO PERFORM THE TYPES OF INSPECTION REQUIRED.
- 13. CONTINUOUS INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.
- 14. ANY SUPPORT SERVICE PERFORMED BY THE ENGINEER OF RECORD DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES, WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER OF RECORD ARE ONLY FOR THE PURPOSE OF ASSISTING IN THE QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH THE CONTRACT DOCUMENTS. THIS SUPPORT DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- 15. THE ANTENNA MOUNT SHALL BE FABRICATED BY LARSON VALMONT, LLC. OR AN APPROVED FABRICATOR OF CONVENTIONAL STEEL STRUCTURES.

LARSON

FOUNDATION NOTES:

- THE GEOTECHNICAL ENGINEER (OR THE APPROPRIATE INSPECTOR) SHALL INSPECT THE EXCAVATION PRIOR TO PLACING REINFORCING STEEL OR FORMS. THE GEOTECHNICAL ENGINEER (OR INSPECTOR) SHALL PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORDS PURPOSE.
- 2. THE CONTRACTOR SHALL DETERMINE THE MEANS AND METHODS TO SUPPORT THE EXCAVATION DURING CONSTRUCTION. REFER TO THE GEOTECHNICAL REPORT FOR RECOMMENDATIONS.
- THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT AND SHALL CONSULT THE GEOTECHNICAL ENGINEER AS NECESSARY PRIOR TO CONSTRUCTION.
- 4. FOUNDATION DESIGN PER GEOTECHNICAL INVESTIGATION REPORT: BY: SALEM ENGINEERING GROUP INC PROJECT NO: 3-223-0269
 - DATE: 4/13/2023
- ALL FOUNDATION CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F'c= 5000PSI AT 28 DAYS. CONCRETE MIX SHALL BE DESIGNED BY AN APPROVED LABORATORY. CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.40. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318. "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION. CEMENT SHALL BE TYPE V, CONFORMING TO ASTM C-150. ALL AGGREGATE USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. MAXIMUM AGGREGATE SIZE TO BE 1 1/2" SLUMP 4" - 8".
- CAISSON FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 336, "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS", LATEST EDITION. MAT/PIER FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 318 LATEST EDITION. CONCRETE CYLINDERS SHALL BE MADE AND TESTED. A MINIMUM OF ONE (1) SET SHALL BE TAKEN FROM CONCRETE IN FOUNDATION. EACH SET SHALL CONSIST OF FOUR (4) CYLINDERS. ONE SHALL BE TESTED AT (7) DAYS, TWO SHALL BE TESTED AT TWENTY EIGHT (28) DAYS AND THE LAST CYLINDER SHALL BE A HOLD. ALL CYLINDERS SHALL BE TAKEN, PREPARED AND TESTED BY A TESTING LAB IN ACCORDANCE WITH ASTM STANDARDS C172, C31 AND C39.
- 7. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615. VERTICAL BARS SHALL BE GRADE 60, AND TIES OR STIRRUPS SHALL BE A MINIMUM OF GRADE 40. THE PLACEMENT OF ALL REINFORCEMENT SHALL CONFORM TO ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION, UNLESS OTHERWISE DETAILED ON THIS SHEET.
- 8. ESTIMATED CONCRETE VOLUME = MAT+PIER 70.36 CYD PIER : --- CYD 9. THE FOUNDATION HAS BEEN DESIGNED TO RESIST THE FOLLOWING FACTORED LOADS: MOMENT = 3444.816 FT-KIPS SHEAR = 51.468 KIPS AXIAL = 55.389 KIPS

ERECTION NOTES

- MONOPOLE SHAFT.
- 2. REQUIRED BY THE OWNER.
- WRENCH.

- 6.
- SPECIAL INSPECTION.

- 10. SPECIAL INSPECTION REQUIRED PER TABLE
- 11. "SUMMARY OF SPECIAL INSPECTION"

1). FOUNDATION CONSTRUCTION: INSPECTOR FOR THE FOUNDATION CONSTRUCTION. PRIOR TO THE CONCRETE PLACEMENT. 2). CAST IN PLACE CONCRETE (FOUNDATION): Α. THE FOUNDATION NOTES. 3). ANCHOR BOLTS INSTALLED IN CONCRETE: SHALL BE PLUMB. DFTAIL OF STEEL CONSTRUCTION.









		COAX HAND/ACCESS
		ELEV (AFG)QTY (IN)W (IN)H (IN)AZIMU (IN)
		60'-6" 1 6 12 200° 48'-0" 3 8 22 0°,120 3'-0" 2 10 30 0°, 18
O.D. E		
		Tf
HOLES		B SECTION
		W
		B
		TYP.
		Tf —
SCALE: N.T.S.		
		Tp = THICKNESS OF POLE
		Tf = THICKNESS OF FLANGE
		1 COAX HAND HOLES DETAILS
		TYP. Tp
SCALE: N. T. S.	4 NOT USED SCALE: N. T. S.	OPPOSITE EACH COAX PORT (TYP.)
	BASE PLATE OUTER DIAMETER	MONOPOLE SHAFT/ (PER PLAN)
	OUTER DIAMETER BOLT CIRCLE	2 J-HOOK INSIDE POLE AT COAX PO
1		
	POLE IEMPLATE (2 REQUIRED)	
/4"	BOLT HOLES BOLT HOLES	
	BASE PLATE ANCHOR BOLT TEMPLATE	
6"Ø HOLES	PLATE GRADE THICKNESS OUTER (IN) DIAMETER (IN) DIAMETER (IN) (IN) BOLT HOLE (IN) DIAMETER (IN)	
OLID BAR OCK	BASE PLATE A572 GR50 2.25 54.5 31.5 48.5 2.625 ANCHOR BOLT TEMPLATE A36 0.5 53.5 43.5 48.5 2.375	
	BOLT GRADE NO. OF BOLTS BOLT TOTAL EMBEDMENT DIAMETER (IN) LENGTH (IN) (IN)	
_	ANCHOR BOLTS - MAT A615 GR 75 16 2.25 78 66	
SCALE: N.T.S.	5 BASE PLATE AND ANCHOR BOLTS	3 POLE/BASE PLATE CONNECTION



