PROPOSED WIRELESS COMMUNICATION FACILITY

Verionwireless

NEW YORK SMSA LIMITED PARTNERSHIP **D/B/A VERIZON WIRELESS**

400 Warren Corporate Center Drive. Building D. Warren, New Jersey 07059 Site: Westfield 4

1033 SPRINGFIELD AVENUE CRANFORD, NJ 07016

BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4 & 5

BLOCK: 122 LOT: 5 UNION COUNTY

··-T···Mobile·

NORTHFAST LLC.

4 Sylvan Way Parsippany, New Jersey 07054 Site: NJ09961A



NEW CINGULAR WIRELESS PCS, LLC BY AT&T MOBILITY CORPORATION One AT&T Way

> Bedminster, New Jersey 07921 Site: W-1128 FA: 10110601

> > CRANFORD TOWNSHIP, UNION COUNTY, NEW JERSEY, DATED 4-4-2019

SITE MAP PROJECT CONTACTS SIGNATURE BLOCK LIST OF DRAWINGS Issue # Date AT&T: IS APPROVED BY THE CRANFORD TOWNSHIP ZONING Z1 COVER SHEET 05/10/19 REAL ESTATE: REAL ESTATE: 200 FT PROPERTY OWNERS LIST 05/10/19 72 3 VICKY BRENNA (516) 557-2398 TAX MAP & 200 FT PROPERTY OWNERS LIST 05/10/19 05/10/19 AERIAL AND ZONING MAP OVERALL SITE KEY PLAN 05/10/19 RF ENGINEER: T-MOBILE: GLEN PIERSON (201) 572-6206 75 SITE PLAN AND ZONING INFORMATION 3 05/10/19 REAL ESTATE: HERESA MERCADO (973) 766-2835 COMPOUND PLAN & SITE ELEVATION VERIZON EOUIPMENT PLAN & ELEVATION 05/10/19 RF ENGINEER: GLEN PIERSON (201) 572-6206 05/10/19 ATTORNEY: VERIZON FOUIPMENT CABINET SPECIFICATIONS 3 TICE. MEESE SHULMAN & D'ARMINIO VERIZON ANTENNA PLAN & DETAILS 05/10/19 50 TICE BOULEVARD, SUITE 380 WOODCLIFF LAKE, NJ 07677 GREGORY D. MEESE (201) 799-2927 VERIZON RRH'S & GPS DETAILS AND SPECS 05/10/19 VERIZON GENERATOR SPECIFICATIONS 05/10/19 CITY: Z12 AT&T EQUIPMENT PLAN & ELEVATION 05/10/19 3 OWNSHIP OF CRANFORD BOARD ENGINEER 8 SPRINGEIELD AVENUE Cranford Campus AT&T EQUIPMENT CABINET SPECIFICATIONS 05/10/19 AT&T ANTENNA PLAN & DETAILS 3 05/10/19 SITE AT&T RRH'S & GPS DETAILS AND SPECS 05/10/19 Z15 3 Z16 AT&T GENERATOR SPECIFICATIONS 05/10/19 SITE INFORMATION OWNER/APPLICANT INFORMATION Z17 T-MOBILE EQUIPMENT PLAN & ELEVATION 05/10/19 T-MORILE FOLIPMENT CARINET SPECIFICATIONS 3 05/10/19 APPLICANT/LESSEE INFORMATION PROPERTY OWNERS Z19 T-MOBILE ANTENNA PLAN & DETAILS 3 05/10/19 SITE ADDRESS: FLOOD PLATN UNION COUNTY COLLEGE 1033 SPRINGFIELD AVE CRANFORD, NJ 07016 NEW YORK SMSA LIMITED PARTNERSHI D/B/A VERIZON WIRELESS 1033 SPRINGFIELD AVE CRANFORD, NJ 07016 SUBJECT PARCEL LIES IN ZONE "X" AREAS
DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL
CHANCE FLOODPLAIN PER THE FLOOD RATE T-MOBILE RRH'S & GPS DETAILS AND SPECS 05/10/19 3 400 WARREN CORPORATE CENTER DRIVE. BUILDING D. T-MOBILE GENERATOR SPECIFICATIONS 05/10/19 WARREN, NEW JERSEY 07059 MUNICIPAL ID: INSURANCE MAP NUMBER 34039C0020F PANEL 20 PHONE: (908) 256-7000 CO-APPLICANT/LESSEE INFORMATION: MISCELLANEOUS SITE DETAILS 05/10/19 BLOCK#: 121 & 122 LOT#: 1, **2.01**, 2.02, 3, 4 & 5 ZONE: "E-1" - EDUCATION DISTRICT Z22 OF 49 FOR UNION COUNTY, NEW JERSEY, DATED SEPTEMBER 20, 2006 4 Sylvan Way Parsippany, New Jersey 07054 Phone: (973) 397-4800 CO-APPLICANT/LESSEE INFORMATION: Z23 GRADING PLAN 05/10/19 NEW CINGULAR WIRELESS PCS, LLC. BY AT&T MOBILITY CORPORATION SITE CROSS SECTION 05/10/19 ONE AT&T WAY LANDSCAPING PLAN AND DETAILS 05/10/19 BEDMINSTER, NEW JERSEY 07921 SOIL AND SEDIMENT CONTROL PLAN AND DETAILS 05/10/19 Z27 SOIL AND SEDIMENT CONTROL NOTES 05/10/19 **BUILDING CODE COMPLIANCE** SCOPE OF WORK REFERENCE CODES: NIUCC, NIIBC 2015, N.E.C. 2014, FIA/TIA 222 REV.G-1 - 2007 THE PROPOSED WIRELESS COMMUNICATIONS FACILITY IS NOT INTENDED FOR HUMAN OCCUPANC AND WILL BE VISITED APPROXIMATELY ONCE EVERY FOUR TO SIX WEEKS BY EACH CARRIER FOR ROUTINE MAINTENANCE. 3. THE FACILITY SHALL BE MONITORED FROM REMOTE MONITORING FACILITIES AND IN CASE OF AN EMERGENCY THE LOCAL FIRE OR POLICE DEPARTMENT WILL BE NOTIFIED 4. CONNECTIONS FOR THE PROPOSED ELECTRIC AND TELEPHONE SERVICE ARE BASED ON SITE 5. THIS PROJECT DOES NOT REQUIRE ANY ADDITIONAL PARKING SPACES.) FIELD MEASUREMENTS TAKEN ON 03/19/2015 BY FC Architects 6. THIS PROJECT DOES NOT INVOLVE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE. 2) SITE IMPROVEMENTS AND LOCATIONS OF PROPERTY LINES ARE BASED A BOUNDARY SURVEY PREPARED BY 7. THIS TYPE/NATURE OF THE WIRELESS FACILITY REQUIRES SPECIALIZED TRAINED TECHNICIANS AND IS EXEMPT FROM ADA COMPLIANCE. RICHARD M. GARDELL, LLC # 36729, GARDELL ASSOCIATES, INC. LAND SURVEYING AND CONSULTING SERVICES, 57 KELLER AVENUE, ROCKAWAY, NEW JERSEY, 07866 TITLE "BOUNDARY SURVEY," BLOCK 212, LOT 2.01,

350 Clark Drive | Suite 304 Mount Olive, NJ 07828 O 973-726-7164 | **F** 973-726-7204 fcolasurdo@fcarchitectsinc.com Frank Colasurdo Architects, Inc

Frank Colasurdo, RA

NJ Lic. #13753 NY Lic. #029379-1 PA Lic. #RA403655 MA Lic. #32346 MD Lic. #19079

APPLICANT/CLIENT

Veri onwireless New York SMSA Limited **Partnership** D/B/A Verizon Wireless

400 Warren Corporate Center Dr Buildina D Warren, NJ 07059 (908) 256-7000

O-APPLICANT/CLIENT:



New Cinquiar Wireless PCS, LLC By AT&T Mobility Corporation

One AT&T Way Bedminster, NJ 07921 (908) 532-1995

T-MOBILE NORTHEAST, LLC. 4 Sylvan Way

Parsippany, NJ 07054 (973) 397-4800

WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

CRANF<mark>ORD, NEW JERSEY 07016</mark> BLOCK: 121 LOT: 1, 2,01, 2,02, 3, 4 & 5. BLOCK: 122 LOT: 5 UNION COUNTY

	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/19
	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/19
1	FINAL ZONING DRAWINGS	04/12/19
0	PRELIMINARY ZONING DRAWINGS	11/28/18
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

COVER SHEET

VER3818 W-1128 NJ09961A

UNION COUNTY COLLEGE

AMA

LIST OF PROPERTY OWNERS WITH 200' OF SUBJECT PARCEL (CRANFORD TOWNSHIP)

Block-Lot: 118-6 REYNOLDS, BRIAN & KV 9 RUTGERS RD CRANFORD, NJ 07016 RE: 9 RUTGERS RD Block-Lot: 118-15 BODDIE, BROCKINTÓN 10 PRINCETON RD CRANFORD, NJ 07016 RE: 10 PRINCETON RD Block-Lot: 118-7 MATTHEWS: DAVID K 8 5 RUTGERS RD CRANFORD, N J 07016 Block-Lot: 105-1 UNION COUNTY DIV PARKS & ADMIN BLDGJETOWN PLAZA ELIZABETH, N J 07207 RE: 1030 SPRINGFIELD AVE RE: 5 RUTGERS RD Block-Lot: 118-6 MUNOZ, JOANNA & V 7 RUTGERS RD CRANFORD, NJ 07010 RE: 7 RUTGERS RD Block-Lot: 121-2.01 UNION COUNTY COLLEGE 1033 SPRINGFIELD AVE CRANFORD, N J 07016 RE: 1033 SPRINGFIELD AVE Block-Lot: 118-13 APICELLA: DENNIS F & NANC 6 PRINCETON RD CRANFORD, N J 07016 RE: 6 PRINCETON RD Block-Lot: 120-12 DONOHUE: DAVID A & INGER J 48 RUTGERS RD CRANFORD, N J 07016 RE: 48 RUTGERS RD Block-Lot: 118-12 COOK: GLEN & MARYBETH 4 PRINCETON RD CRANFORD, N J 07016 RE: 4 PRINCETON RD Block-Lot: 118-17 SWEIFACH: FLORENCE JEAN 14 PRINCETON RD CRANFORD, N J 07016 Block-Lot: 122-21 RIVERA, LUIS & ARACELI REVOC TRUST 10 YALE TERR CRANFORD, NJ 07016 RE: 10 YALE TERR Block-Lot: 118-15 BODDIE, BROCKINTON T 10 PRINCETON RD CRANFORD, NJ 07016 RE: 10 PRINCETON RD Block-Lot: 120-10 MC DERMOTT: JOHN & MILA 44 RUTGERS RD CRANFORD, N J 07016 RE: 44 RUTGERS RD Block-Lot: 120-12 DONOHUE: DAVID A & INGER J 48 RUTGERS RD CRANFORD, N J 07016 RE: 48 RUTGERS RD Block-Lot: 122-11 DEL RUSSO: PHYLLIS / WEISS 31 HARVARD RD CRANFORD, N J 07016 RE: 31 HARVARD RD Block-Lot: 122-10 JULIAN, ROBERT J & KIMBERLY O 28 HARVARD RD CRANFORD, NJ 07016 RE: 29 HARVARD RD Block-Let: 118-12 COOK: GLEN & MARYBETH 4 PRINCETON RD CRAMFORD, N J 07016 RE: 4 PRINCETON RD Block-Let: 120-10 MC DERMOTT: JOHN & MILA 44 RUTGERS RD CRANFORD, N J 07016 RECEIVED STANDARD AND STANDARD Block-Lot: 118-18 CABRERA, JOHNNY E V 18 PRINCETON RD CRANFORD, NJ 67615 RE: 18 PRINCETON RD Block-Lot: 121-1 UNION COLLEGE 1033 SPRINCEIELD Block-Lot: 118-17 SWEIFACH: FLORENCE JEAN 14 PRINCETON RD CRANFORD, N J 07018 RE: 14 PRINCETON RD Block-Lot: 128-10

S MC DERMOTT: JOHN & MILA

44 RUTGERS RD

CRANFORD, N J 07018

RE: 44 RUTGERS RD Block-Lot: 122-1 SUSZKO: PAUL M, ANN (LE) 34 BROWN TERR CRANFORD, N J 07016 RE: 34 BROWN TERR Block-Lot: 120-12 DONOHUE: DAVID A & INGER J 48 RUTGERS RD CRANFORD, N J 07015 RE: 48 RUTGERS RD RE: 12 PRINCETON RU Block-Lot: 126-1 PFAU, ANDREW & JENNIFER 32 COLBY LN CRANFORD, NJ 67016 RE: 32 COLBY LN Block-Lot: 121-2.02 UNION COUNTY COLLEC 1033 SPRINGFIELD AVE CRANFORD, N J 07016 RE: 1033 SPRINGFIELD AV Block-Lot: 121-4 UNION COUNTY COLLE 1033 SPRINGFIELD AVI CRANFORD, N J 07016 RE: GALLOWS HILL RD Block-Lot: 129-30 KASKIW, PATRICK M & DIANE E 17 PRINCETON RD CRANFORD, NJ 07016 RE: 17 PRINCETON RD Block-Lot: 121-1 UNION COLLEGE 1033 SPRINGFIELD AVE CRANFORD, N J 07016 RE: SPRINGFIELD AVE Block-Lat: 121-3 UNION COLLEGE 1033 SPRINGFIELD AV CRANFORD, N J 07016 RE: COLBY LIN REAR Block-Lot: 120-29 OLESKY, DEIRDRE & PETER 19 PRINCETON RD CRANFORD, NJ 07016 RE: 19 PRINCETON RD Block-Lot: 120-10 MC DERMOTT: JOHN & MILA 44 RUTGERS RD CRANFORD, N J 07018 RE: 44 RUTGERS RD

Block-Lot: 122-12 WETHERELL: KEVIN & KAREN 33 HARVARD RD CRANFORD, N J 07018 RE: 33 HARVARD RD Block-Lof: 122-11 DEL RUSSO: PHYLLIS / WEISS: DEBRA 31 HARVARD RD CRANFORD, N J 07016 RE: 31 HARVARD RD Block-Lot: 122-10 JULIAN, ROBERT J & KIMBERL' 29 HARVARD RD CRANFORD, NJ 07016 RE: 29 HARVARD RD Block-Lot: 122-9 SWANSON: SCOTT & KRISTA 27 HARVARD RD CRANFORD, N J 07016 RE: 27 HARVARD RD Block-Lot: 119-16 CRANFORD HOUSE ASS 30 PRINCETON RD CRANFORD, N J 07016 RE: 30 PRINCETON RD Block-Lot: 119-14 GRAZIANO: GUY J JR & DONNA 26 PRINCETON RD CRANFORD, N J 07016 RE: 28 PRINCETON RD Block-Lof: 119-13 EGAN, JOHN & SUZANNE 24 PRINCETON RD CRANFORD, NJ 07016 RE: 24 PRINCETON RD Block-Lot: 119-12 KIEBLER: HEINZ G & JUDITH K 22 PRINCETON RD CRANFORD, N J 07016 RE: 22 PRINCETON RD BLOCK-LOT 1987

MATTHEWS: DAVID K 8 MARIA:
8 RUTGERS RD

GRAMFORD, N J 07016
RE: 8 RUTGERS RD

Block-LOT 19828

SCHULTZ-LEEDN H 8 LINDA F
21 PRINCETON RD

RE: 21 PRINCETON RD Block-Lot: 120-27 LYNSKEY: SEAN & CICH 23 PRINCETON RD CRANFORD, N J 07016 RE: 23 PRINCETON RD Block-Lot: 120-26 SZARK: JOSEPH III & KRISTA 25 PRINCETON RD CRANFORD, N J 07016 RE: 25 PRINCETON RD Block-Lot: 128-24 SYKES: HOLLISTER & ADELE 29 PRINCETON RD CRANFORD, N J 07016 RE: 29 PRINCETON RD BIOCK-LOST 120-23 SCHIMKOWITZ: ALAN & LEE ANN 31 PRINCETON RD CRANFORD, N J 07018 RE: 31 PRINCETON RD

Block-Let: 120-21 PARKER, DANN LERGY JR 36 PRINCETON RD CRANFORD NJ 07016 RE: 35 PRINCETON RD

Block-Lot: 118-14 CAROLLO: ANDREW & 8 PRINCETON RD CRANFORD, N J 07016 Block-Lot: 118-12 COOK: GLEN R MARYBI 4 PRINCETON RD CRANFORD, N J 07016 RE: 4 PRINCETON RD Block-Lat: 119-19 GREGORY: RICHARD H 41 RUTGERS RD CRANFORD, N J 07016 RE: 41 RUTGERS RD Block-Lot: 118-4 HUBBUCH: ROBERT C & 11 RUTGERS RD CRANFORD, N J 07016 RE: 11 RUTGERS RD Block-Lot: 118-3
TYRRELL, STEPHEN & ANDREA
15 RUTGERS RD Block-Lot: 122-20 SHANAHAN: JAMES 12 YALE TERR Block-Lot: 132-6 POLITO: EDWARD & PA 1056 COOLIDGE ST CRANFORD, N J 07016 RE: 1056 COOLIDGE ST Block-Lot: 120-19 SORIENTE: RAYMO

Block-Lot: 120-16 HORNE: WILLIAM O 8 M 42 PRINCETON RD CRANFORD, N J 07016 RE: 42 PRINCETON RD

Block-Lot: 120-15 EXAR-HAKOS: THEODOX 40 PRINCETON RD CRANFORD, N J 07016 RE; 40 PRINCETON RD

Block-Lot: 119-16 CRANFORD HOUSE ASS 30 PRINCETON RD CRANFORD, N J 07016 RE: 30 PRINCETON RD Block-Lot: 119-14 GRAZIANO: GUY JUR & DONNA 26 PRINCETON RD CRANFORD, N J 07016 RE: 26 PRINCETON RD Block-Lot: 119-13 EGAN, JOHN & SUZANNE 24 PRINCETON RD CRANFORD, NJ 07018 RE: 24 PRINCETON RD CRANFORD, N J 07016 RE: 20 PRINCETON RD Block-Lot: 118-7 MATTHEWS: DAVID K & MARIA E 6 RUTGERS RD CRANFORD, N J 07016 RE: 6 RUTGERS RD Block-Let: 119-17 WALDMAN: LEONARD & LOIS 32 PRINCETON RD CRANFORD, N J 07018 RE: 32 PRINCETON RD Block-Lot: 119-16 CRANFORD HOUSE ASSOCIATES LLC 30 PRINCETON RD CRANFORD, N J 07016 RE: 30 PRINCETON RD Block-Let: 119-14 GRAZIANO: GUY JUR & DON Block-Lot: 119-13 EGAN, JOHN & SUZANNE 24 PRINCETON RD CRANFORD, NJ 07016 RE: 24 PRINCETON RD Block-Let: 118-7 MATTHEWS: DAVID K & MARIA E 5 RUTGERS RD CRANFORD, N J 07016 RE: 5 RUTGERS RD Block-Lot: 120-18 DE VELDE REVOCABLE 41 PRINCETON RD CRANFORD, NJ 07016 RE: 41 PRINCETON RD Block-Lot: 122-21 RIVERA, LUIS & ARACELI F 10 YALE TERR CRANFORD, NJ 07016 RE: 10 YALE TERR Block-Lot: 122-12 WETHERELL: KEVIN & KAREN 33 HARVARD RD CRANFORD, N J 07016 RE: 33 HARVARD RD

Block-Lot: 122-10 JULIAN, ROBERT J & KIMBERL 29 HARVARD RD CRANFORD, NJ 07016 RE: 29 HARVARD RD

Block-Let: 122-9 SWANSON: SCOTT & KRISTA 27 HARVARD RD CRANFORD, N J 07016 RE: 27 HARVARD RD

Block-Lot: 120-28 SCHULTZ,LEON H & LIN 21 PRINCETON RD CRANFORD, NJ 07016 RE: 21 PRINCETON RD Block-Lof: 120-27 LYNSKEY: SEAN & CICHLAR: 23 PRINCETON RD CRANFORD, N J 07016 RE: 23 PRINCETON RD Block-Lot: 120-26 SZARK: JOSEPH III & KRISTA 25 PRINCETON RD GRANFORD, N J 07016 RE: 25 PRINCETON RD Block-Lat: 129-28 PARKE, DAVID & AMY 27 PRINCETON RD CRANFORD, NJ 07016 RE: 27 PRINCETON RD Block-Lot: 122-20 SHANAHAN: JAMES PW 12 YALE TERR CRANFORD, N J 07016 RE: 12 YALE TERR Block-Lot: 120-24 SYKES: HOLLISTER & ADELE Block-Lot: 120-23 SCHIMKOWITZ: ALAN & LEE ANN 31 PRINCETON RD CRANFORD, N J 07016 RE: 31 PRINCETON RD Block-Lot: 120-22 FELDMAN: ANDREW & L 33 PRINCETON RD CRANFORD, N J 07016 RE: 35 PRINCETON RD Block-Lot: 119-1 DASILVA, JOHN L & JULY A 39 RUTGERS RD CRANFORD, NJ 07016 RE: 39 RUTGERS RD Block-Lot: 120-21 PARKER, DANN LEROY JR 36 PRINCETON RD CRANFORD, NJ 07016 RE: 35 PRINCETON RD Block-Lot: 118-6 MUNOZ, JOANNA & WOODS 7 RUTGERS RD CRANFORD, NJ 07016 RE: 7 RUTGERS RD Block-Lot: 118-4 HUBBUCH: ROBERT C & KATH 11 RUTGERS RD CRANFORD, N J 07016 RE: 11 RUTGERS RD Block-Lot: 120-27 LYNSKEY: SEAN & CICHLAR 23 FRINCETON RD CRANFORD, N J 07016 RE: 23 PRINCETON RD Block-Lot: 120-26 SZARK: JOSEPH III & KRISTA 25 PRINCETON RU GRANFORD, N J 07016 RE: 25 PRINCETON RD Block-Lot: 118-2 MORRIS: BRYAN S & CAR 17 RUTGERS RD CRANFORD, N J 07016 RE: 17 RUTGERS RD Block-Lot: 122-20 SHANAHAN: JAMES PAVEILER: 12 YALE TERR GRANFORD, N J 07016 RE: 12 YALE TERR Block-Lot: 120-24 SYKES: HOLLISTER & ADELE 29 PRINCETON RD CRANFORD, N J 07016 RE: 29 PRINCETON RD Block-Lot: 120-23 SCHIMKOWITZ: ALAN & LEE ANN 31 PRINCETON RD CRANFORD, N J 07018 RE: 31 PRINCETON RD CRANFORD, NJ 07016 RE: 1059 COOLIDGE ST NE: 33 PRINCETON RD
Block-Lot: 120-21
PARKER, DANN LERCY JR
35 PRINCETON RD
CRANFORD, NJ 07016
RE: 35 PRINCETON RD
Block-Lot: 118-19
NEWMARK; JEFFREY & JUDY
2 AMMERST RD Block-Lot: 119-1 DASILVA, JOHN L & JULY A 39 RUTGERS RD GRANFORD, NJ 07016 RE: 39 RUTGERS RD Block-Lot: 118-15 BODDIE, BROCKINTON T 10 PRINCETON RD CRANFORD, NJ 07016 RE: 10 PRINCETON RD Block-Lot: 118-14 CAROLLO: ANDREW & SUSAN 8 PRINCETON RD CRANFORD, N J 07016 RE: 8 PRINCETON RD Block-Let: 118-18 CABRERA, JOHNNY 16 PRINCETON RD Block-Lot: 118-17 SWEIFACH: FLORENCE JEAN 14 PRINCETON RD CRANFORD, N J 07018 RE: 14 PRINCETON RD Block-Lat: 118-12 COOK: GLEN & MAR 4 PRINCETON RD CRANFORD, N J 07016 RE: 4 PRINCETON RD Block-Let: 119-19 GREGORY: RICHARD H & SAF 41 RUTGERS RD GRANFORD, N J 07016 RE: 41 RUTGERS RD

Block-Lot: 121-3 UNION COLLEGE

1033 SPRINGFIELD AV CRANFORD, N J 07016 RE: COLEY LN REAR

Block-Lot: 121-4

Block-Lot: 122-21 RIVERA, LUIS & ARACELI REVOC TRUST 10 YALE TERR CRANFORD, NJ 07016 RE: 10 YALE TERR Block-Lot: 120-19 SORIENTE: RAYMO Block-Lot: 122-11 DEL RUSSO: PHYLLIS / 1 Block-Lot: 122-10 JULIAN, ROBERT J & KIMBERLY C 29 HARWARD RD CRANFORD, NJ 07016 RE: 29 HARWARD RD Block-Lot: 120-16 HORNE: WILLIAM O & I. 42 PRINCETON RD CRANFORD, N J 07016 RE: 42 PRINCETON RD Block-Lot: 120-15 EXARHAKOS: THEODOF 40 PRINCETON RD CRANFORD, N J 07016 RE: 40 PRINCETON RD Block-Lot: 118-8 REYNCLDS, BRIAN & KW 9 RUTGERS RD 9 RUTGERS RD CRANFORD, NJ 07018 RE: 9 RUTGERS RD Block-Lot: 119-17 WALDMAN: LEONARD & LOI 32 PRINCETON RD CRANFORD, N J 07016 RE: 32 PRINCETON RD Block-Lot: 120-14 WALSH: RICHARD J & DEB 38 PRINCETON RD CRANFORD, N J 07015 RE: 38 PRINCETON RD Block-Lot: 119-16 CRANFORD HOUSE ASSOCIATE 30 PRINCETON RD CRANFORD, N J 07016 RE: 30 PRINCETON RD Block-Let: 119-14 GRAZIANO: GUY J JR & 26 PRINCETON RD CRANFORD, N J 07016 RE: 26 PRINCETON RD Block-Lot: 120-19 SORIENTE: RAYMO Block-Lot: 119-13 EGAN, JOHN & SUZANNI Block-Lot: 120-18
DE VELDE REVOCABLE
41 PRINCETON RD CRANFORD, NJ 07016 RE: 41 PRINCETON RD Block-Lot: 119-11 SALERNO: JOHN & DOREEN 20 PRINCETON RD CRANFORD, N J 07016 RE: 20 PRINCETON RD Block-Lot: 120-16 HORNE: WILLIAM C 42 PRINCETON RD Block-Lot: 118-7 MATTHEWS: DAVID K & MARIA E 5 RUTGERS RD CRANFORD, N J 07016 RE: 5 RUTGERS RD Block-Lot: 120-15 EXARHAXOS: THEODORE & JULIE A 40 PRINCETON RD CRANFORD, N J 07015 RE: 40 PRINCETON RD 36 PRINCETON RD CRANFORD, N J 07016 RE: 36 PRINCETON RD Block-Lot: 120-13 STOCHLINSKI: JOSEPH-36 PRINCETON RD CRANFORD, N J 07016 RE: 36 PRINCETON RD Block-Lot: 121-5 UNION COLLEGE Block-Lot: 120-27 LYNSKEY: SEAN & CICHL CRANFORD, N J 07016 RE: 23 PRINCETON RD

No Data

Block-Let: 122-8 MC HUGH: THOMAS K 25 HARVARD RD CRANFORD, N J 07016 RE: 25 HARVARD RD

Block-Lot: 121-2.02 UNION COUNTY COLLEGE 1033 SPRINGFIELD AVE CRANFORD, N J 07016 RE: 1033 SPRINGFIELD AV

Block-Lot: 120-30 KASKIW, PATRICK M & D 17 PRINCETON RD CRANFORD, NJ 07016 RE: 17 PRINCETON RD

Block-Lot: 120-29
OLESKY, DEIRDRE & PETER
19 PRINCETON RD
CRANFORD, NJ 07018
RE: 19 PRINCETON RD

UNION COUNTY DIV PARKO A ADMIN BLDG/ETOWN PLAZA ELIZABETH, N J 07207 RE: 1030 SPRINGFIELD AVE

Block-Lot: 120-28 SCHULTZ,LEON H & LINDA F 21 PRINCETON RD GRANFORD, NJ 07016 RE: 21 PRINCETON RD Block-Lot: 120-26 SZARK: JOSEPH III & KRISTA 25 PRINCETON RD CRANFORD, N J 07016 RE: 25 PRINCETON RD Block-Let: 120-24 SYKES: HOLLISTER & ADELL 29 PRINCETON RD Block-Lot: 120-23 Blook-Lot: 120-23 SCHIMKOWITZ: ALAN & LEE ANN 31 PRINCETON RD CRANFORD, N J 07015 RE: 31 PRINCETON RD Block-Lot: 120-22 FELDMAN: ANDREW & LAUREN 33 PRINCETON RD CRANFORD, N J 07016 RE: 33 PRINCETON RD

Block-Lot: 118-19 IE NEWMARK: JEFFREY & JUDY 2 AMHERST RD CRANFORD, N.J. 07016 RE: 2 AMHERST RD BODDIE, BROCKINTON T 10 PRINCETON RD CRANFORD, NJ 07016 RE: 10 PRINCETON RD Block-Lot: 118-17 SWEIFACH: FLORENCE JEAN 14 PRINCETON RD Block-Lot: 118-12 COOK: GLEN & MARYBET 4 PRINCETON RD CRANFORD, N J 07016 RE: 4 PRINCETON RD Block-Lot: 118-16 BRODERICK: CARMEL / MCAVE 12 PRINCETON RD CRANFORD, N J 07016 RE: 12 PRINCETON RD CRANFORD, N J 07016 RE: 41 RUTGERS RD RE: 41 RUTGERS RD
SCALZADONNA: JOHN:
34 PRINCETON RD
CRANFORD, N J 07016
RE: 34 PRINCETON RD
Block-Lot: 118-6
MUNOZ, JOANNA & WC
7 RUTGERS RD
CRANFORD, NJ 07016
RE: 7 RUTGERS RD Block-Lot: 121-4 UNION COUNTY COLLEG 1033 SPRINGFIELD AVE CRANFORD, N J 07016 RE: GALLOWS HILL RD Block-Let: 121-3 Block-Lot: 118-4 HUBBUCH: ROBERT C 11 RUTGERS RD CRANFORD, N J 07016 RE: 11 RUTGERS RD 15 RUTGERS RD CRANFORD, NJ 07016 RE: 15 RUTGERS RD Block-Lot: 122-12 WETHERELL: KEVIN & KAREN 33 HARWARD RD CRANFORD, N J 07016 RE: 33 HARWARD RD Block-Lot: 122-20 SHANAHAN: JAMES PM 12 YALE TERR CRANFORD, N J 07016 RE: 12 YALE TERR Block-Lot: 132-6 POLITO: EDWARD Block-Lot: 122-10 JULIAN, ROBERT J & KIN 29 HARVARD RD CRANFORD, NJ 07016 RE: 29 HARVARD RD Block-Lot: 131-4 BANGE, MICHAEL & LARCE 1099 COOLIDGE ST CRANFORD, NJ 97016 RE: 1059 COOLIDGE ST Block-Lot: 122-9 Block-Lot: 119-1 DASILVA, JOHN L & JULY A 39 RUTGERS RD CRANFORD, NJ 07016 RE: 39 RUTGERS RD Block-Lot: 120-20 FARLEY: GRACE 37 PRINCETON RD CRANFORD, N J 07016 RE: 37 PRINCETON RD Block-Lot: 120-12 DONOHUE: DAVID A & INGER J 48 RUTGERS RD CRANFORD, N J 07016 RE: 48 RUTGERS RD

Block-Lot: 120-19 SORIENTE: RAYMOND G 39 PRINCETON RD CRANFORD, N J 07016 RE: 39 PRINCETON RD Block-Lot: 120-18 DE VELDE REVOCABLE 41 PRINCETON RD CRANFORD, NJ 07018 RE: 41 PRINCETON RD Block-Lot: 120-10 MC DERMOTT: JOHN & MILA 44 RUTGERS RD CRANFORD, N J 07016 RE: 44 RUTGERS RD Block-Lot: 120-16 HORNE: WILLIAM O.S.M. 42 PRINCETON RD CRANFORD, N.J. 07016 RE: 42 PRINCETON RD Block-Lot: 120-15
EXARHAKOS: THEODORE & JULIE A
40 PRINCETON RD
CRANFORD, N J 07015
RE: 40 PRINCETON RD

Block-Let: 120-30 Block-Lot: 119-19

Block-Lot: 122-1 SUSZKO: PAUL M, ANN (LE) 34 BROWN TERR CRANFORD, N J 07018 RE: 34 BROWN TERR Block-Lot: 120-25 PARKE, DAVID & AMY 27 PRINCETON RD CRANFORD, NJ 07016 RE: 27 PRINCETON RD Block-Lot: 120-24 SYKES: HOLLISTER & ADEL 29 PRINCETON RD CRANFORD, N J 07016 RE: 29 PRINCETON RD Block-Lot: 121-2.02 UNION GOUNTY CO Block-Let: 120-23 SCHIMKON/ITZ: ALAN & LEE ANN 31 PRINCETON RD CRANFORD, N J 07018 RE: 31 PRINCETON RD KASKIV, PATRICK M 8.1 17 PRINCETON RD CRANFORD, NJ 07016 RE: 17 PRINCETON RD Block-Lot: 128-22 FELDMAN: ANDREW & LAUREN 33 PRINCETON RD CRANFORD, N J 07016 RE: 33 PRINCETON RD Block-Lot: 120-28 OLESKY, DEIRDRE & PETER 19 PRINCETON RD CRANFORD, NJ 07016 RE. 19 PRINCETON RD Block-Lot: 105-1 UNION COUNTY DIV PARKS & ADMIN BLDQJETOWN PLAZA ELIZABETH, N J 07207 RE: 1030 SPRINGFIELD AVE Block-Lot: 120-21 CRANFORD, NJ 07018 RE: 10 PRINCETON RD CRANFORD, N J 07016 RE; 32 PRINCETON RD Block-Lot: 119-16 CRANFORD HOUSE ASSOC 30 PRINCETON RD CRANFORD, N J 07016 RE: 30 PRINCETON RD Block-Lot: 118-14 CAROLLO: ANDREW & SUSAN 8 PRINCETON RD CRANFORD, N J 07018 RE: 8 PRINCETON RD Block-Lot: 119-15 KLEIMAN: DAVID & CHRIS 28 PRINGTON RD CRANFORD, N J 07016 RE: 28 PRINGETON RD Block-Lot: 119-14 GRAZIANO: GUY J JR & DOI 26 PRINCETON RD CRANFORD, N J 07018 RE: 26 PRINCETON RD GREGORY: RICHARD H I 41 RUTGERS RD CRANFORD, N J 07016 RE: 41 RUTGERS RD Block-Lot: 119-12 KIEBLER: HEINZ G & JUDITH K 22 PRINCETON RO CRANFORD, NJ 07016 RE: 22 PRINCETON RD Block-Lot: 119-11 SALERNO: JOHN & DOREET 20 PRINCETON RD CRANFORD, N J 07018 RE: 20 PRINCETON RD Block-Lot: 118-7 MATTHEWS: DAVID K & MARIA E 5 RUTGERS RD CRANFORD, N J 97916 RE: 5 RUTGERS RD Comcast Cablevision

Block-Lot: 120-27 LYNSKEY: SEAN & CICH 23 PRINCETON RD CRANFORD, N J 97016 RE: 23 PRINCETON RD

Block-Lot: 120-16 HORNE: WILLIAM O & F CRANFORD, N J 07016 RE: 42 PRINCETON RD Block-Lot: 120-15
EXARHAKOS: THEODORE & JULIE A
40 PRINCETON RD
CRANFORD, N J 07015
RE: 40 PRINCETON RD NE: 38 PIENCETUN NO BIOCKLOL: 1205591 A DIANE 35 PRINCETON RD GRANPORD, NJ 207016 RE: 38 PRINCETON RD BIOCKLOL: 118-8 NIMOZ, JOANNA 3 WOODS, MICHAEL 7 RUTGERS RD GRANPORD, NJ 27816 RE: 7 RUTGERS RD Block-Lot: 118-3 TYRRELL, STEPHEN & ANDRE 15 RUTGERS RD CRANFORD, NJ 07016 RE: 15 RUTGERS RD Block-Lot: 118-2 MORRIS: BRYAN S & CARLEEN 17 RUTGERS RD CRANFORD, N J 07016 RE: 17 RUTGERS RD Block-Lot: 122-20 SHANAHAN: JAMES PAVEILER: ELIZABETH 12 YALE TERR CRANFORD, N J 07015 RE: 12 YALE TERR Block-Lot: 132-6 POLITO: EDWARD & PATRICIA 1056 COOLIDGE ST CRANFORD, N J 07016 RE: 1056 COOLIDGE ST 1059 COOLIDGE ST CRANFORD, NJ 07016 RE: 1059 COOLIDGE ST Block-Lot: 119-1 DASILVA, JOHN L 8 JULY A 39 RUTGERS RD CRANFORD, NJ 07018 RE: 39 RUTGERS RD Municipal and Utilities Contact List (as of 10/30/2017)

Block-Lot: 120-20 FARLEY: GRACE 37 PRINCETON RD CRANFORD, N J 07016 RE: 37 PRINCETON RD

Block-Lot: 120-19 SCRIENTE: RAYMOND G & OLGA M 39 PRINCETON RD CRANFORD, N J 07016 RE: 39 PRINCETON RD

Block-Lot: 120-18
DE VELDE REVOCABLE LIVING TRUST
41 PRINCETON RD
CRAMPORD, NJ 07016
RE: 41 PRINCETON RD

Block-Lot: 131-1 BANGE, MICHAEL & LAROSA, KELLY AN

C/O - Corporation Trust Co. 820 Bear Tavern Road West Trenton, NJ 08628

Verizon Executive Offices 1 Verizon Way Attn: Corporate Secretary Basking Ridge, NJ 07920

Elizabethtown Gas Comp Engineering Department 520 Green Lane Union, NJ 07083

Public Service Electric & Gas Compar Manager---Corporate 80 Park Plaza, T6B Newark, NJ 07101

Rahway Valley Sewerage Authority Attn: Chief Engineer 1050 East Hazelwood Avenue Rahway, NJ 07065

Local Newspapers

Westfield Leader: legals@goleader.com Phone: 908-232-4407

The Star Ledger: legalads@njadvancemedia.com Phone: 732-902-4318 Fax: 732-243-2750

Notification & instructions are required at least 7 business days prior to publication

FCARCHITECTS 350 Clark Drive I Suite 304 Mount Olive, NJ 07828 O 973-726-7164 | F 973-726-7204 fcolasurdo@fcarchitectsinc.com

Frank Colasurdo Architects, Inc

Frank Colasurdo, RA

Date

NJ Lic. #13753 NY Lic. #029379-1

PA Lic. #RA403655 MA Lic. #32346 MD Lic. #19079 APPLICANT/CLIENT

Veri Offwireless

New York SMSA Limited Partnership D/B/A Verizon Wireless 400 Warren Corporate Center Dr Building D Warren, NJ 07059 (908) 256-7000

CO-APPLICANT/CLIENT:



New Cingular Wireless PCS, LLC By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995

CO-APPLICANT/CLIENT T-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054

(973) 397-4800

WIRELESS COMMUNICATION **FACILITY**

"WESTFIELD 4"

CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3,

& 5, BLOCK: 122 LOT: 5 UNION COUNTY

REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS FINAL ZONING DRAWINGS 04/12/ PRELIMINARY ZONING DRAWINGS DESCRIPTION OF CHANGE

200 FT PROPERTY OWNERS LIST

PROJECT No: VER3818

W-1128 NJ09961A

UNION COUNTY COLLEGE

DRAWN BY ΔΜΔ

SHEET No.

LIST OF PROPERTY OWNERS WITH 200' OF SUBJECT PARCEL (WESTFIELD TOWNSHIP)

				OWNER & AD	DRESS	REPORT	
WESTFI	IELD	CRA	NFORD				04/08/19 Page 1
BLOCK 36Q1	L0T	QUAL	CLA 2	PROPERTY OWNER GILLHAUS, PATRICIA B 1045 HARDING ST WESTFIELD, NJ	07090	PROPERTY LOCATION 1045 HARDING ST	Add'l Lais
3601	13.01		2	MELVIN, THOMAS P & KATH 1044 HARDING ST WESTFIELD, NJ	EEN F 07090	1044 HARDING ST	
3601	13.02		2	JAKUB, JOHN A & NANCY L 260 GALLOWS HILL RD WESTFIELD, NJ	07090	260 GALLOWS HILL RD	
3601	14		1	ASSESSED IN CRANFORD	00000	1059 COOLIDGE ST - REAR	
3601	15		2	BRAUMAN, MICHAEL J & DAI 1055 COOLIDGE ST WESTFIELD, NJ	NA L 07090	1055 COOLIDGE ST	
3601	16		2	FERNANDEZ, RUBEN & KHOUR 945 WOODLAWN AVE LINDEN, NJ	O7036	1051 COOLIDGE ST	
3601	36		1	COLICCHIO HOMES LLC 817 JERSUSALEM RD SCOTCH PLAINS, NJ	07076	1032 HARDING ST	
3701	1		15E	FAIRVIEW CEMETERY P.O. BOX 850 WESTFIELD, NJ	07090	1100 E BAOAD ST	

TOWN OF WESTFIELD

PUBLIC UTILITIES



350 Clark Drive | Suite 304 Mount Olive, NJ 07828 **O** 973-726-7164 | **F** 973-726-7204 fcolasurdo@fcarchitectsinc.com

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APPLICANT/CLIENT:

Veri Onwireless

New York SMSA Limited Partnership D/B/A Verizon Wireless 400 Warren Corporate Center Dr. Building D

Warren, NJ 07059 (908) 256-7000

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CO-APPLICANT/CLIENT: T-MOBILE NORTHEAST, LLC. 4 Sylvan Way

Parsippany, NJ 07054 (973) 397-4800

WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

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0	PRELIMINARY ZONING DRAWINGS	11/28/1
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

TAX MAP & 200 FT PROPERTY OWNERS LIST

PROJECT No: VER3818 W-1128 NJ09961A

UNION COUNTY

COLLEGE

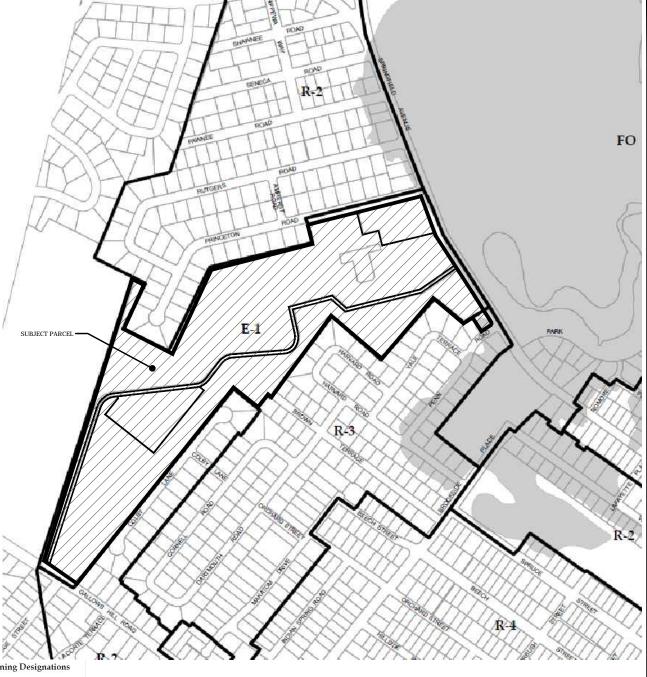
AMA SHEET No:

Z2A



AERIAL MAP

AERTAL IVIAT SCALE: 1"=300'-0" (SHEET SIZE 22" X 34") SCALE: 1"=600'-0" (SHEET SIZE 11" X 17")



Downtown Core District Downtown Business District Downtown Transition District Downtown Transition District
Village Commercial District
Neighborhood Commercial District
Low Density Office Building District
Medium Density Office Building District
Office Residential Character District
Commercial - 1 District
Commercial - 2 District
Commercial - 2 District
Commercial - 3 District
Commercial - 3 District
Commercial - 3 District Education District Public Use District

R-ARR

Redevelopment Districts Cranford Crossing Redevelopment District Western Gateway Rehabilitation District Riverfront Redevelopment District Age Restricted Redevelopment District Overlay Districts Floodplain Overlay District

TOWNSHIP OF CRANFORD - ZONING MAP SCALE: 1"=300'-0" (SHEET SIZE 22" X 34")
SCALE: 1"=600'-0" (SHEET SIZE 11" X 17")



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WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

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0	PRELIMINARY ZONING DRAWINGS	11/28/18
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE

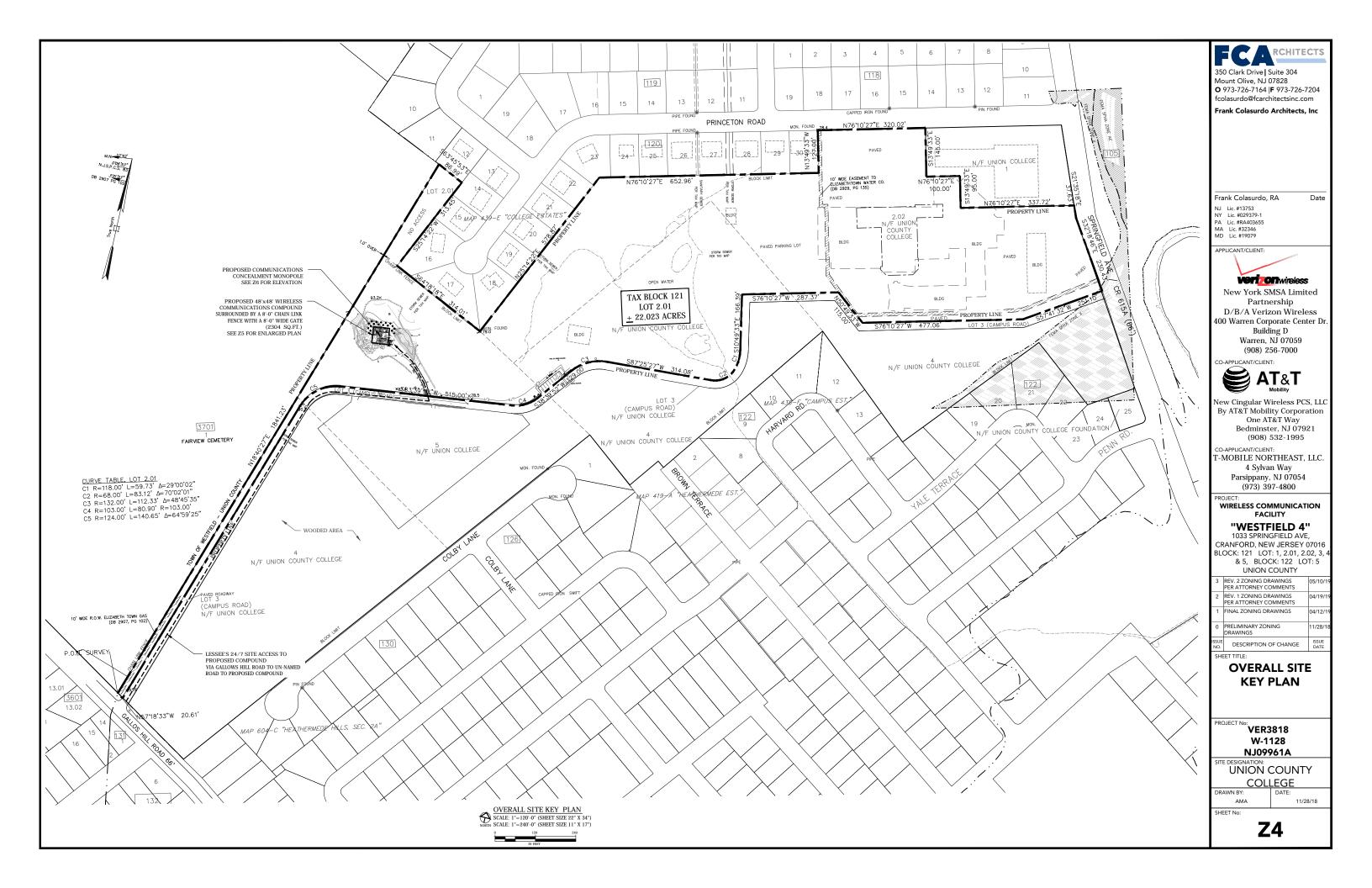
AERIAL AND ZONING MAP

PROJECT No: VER3818 W-1128 NJ09961A

UNION COUNTY

COLLEGE

AMA SHEET No:



REQUIRED	EXISTING	PROPOSED	COMMENTS
2 STORIES OR 35'-0"	± 35'-0" TO TOP OF EXISTING BUILDING	NO BUILDING PROPOSED 7'-1" TO TOP OF VERIZON EQUIPMENT 5'-5" TO TOP OF T-MOBILE EQUIPMENT 10'-7" TO TOP OF AT&T EQUIPMENT	
50'-0"	34'-7" TO EXISTING BUILDING **	84'-3" TO PROPOSED COMPOUND 89'-8" TO AT&T PROPOSED GENERATOR 99'-2" TO AT&T PROPOSED EQUIPMENT 112'-9" TO PROPOSED MONOPOLE FOUNDATION	
3x BLDG. HEIGHT NOT < 70'-0"	50'-10" TO EXISTING BUILDING	NO BUILDING PROPOSED 139'-9" TO PROPOSED COMPOUND 146'-3" TO VERIZON PROP. GENERATOR 152'-11" TO VERIZON PROP. EQUIPMENT 160'-3" TO PROPOSED MONOPOLE FOUNDATION	
45 ACRES	48.48 AC. (2111816.47SQ. FT. {ALL LOTS})	NO CHANGE	
16x THE TOTAL LOT AREA	±0.214	NO CHANGE NO BUILDING PROPOSED	
60% OF THE TOTAL LOT AREA	±61.1% (2111816.47SQ{ALL LOTS} / 822450.86SQ)	±61.0% (2111816.47SQ{ALL LOTS} / 824754.86SQ)	
15'-0" FROM RESIDENTIAL ZONE	EXISTING WOODED AREA	NO CHANGE (NO TREES TO BE REMOVED)	
	TOW REQUIRED 2 STORIES OR 35'-0" 50'-0" 3x BLDG. HEIGHT NOT < 70'-0" 45 ACRES 16x THE TOTAL LOT AREA 60% OF THE TOTAL LOT AREA 15'-0" FROM	TOWNSHIP OF CRANFORD, NEW J REQUIRED	2 STORIES OR 35'-0" 2 STORIES OR 35'-0" 3 STORIES OR 3

* DENOTES VARIANCE
. ** DENOTES EXISTING NON-CONFORMING

REFERENCE DRAWINGS:
1) FIELD MEASUREMENTS TAKEN ON 12/08/2015 BY FC Architects.

2) SITE IMPROVEMENTS AND LOCATIONS OF PROPERTY LINES ARE BASED A BOUNDARY SURVEY PREPARED BY RICHARD M. GARDELL, LLC # 36729, GARDELL LAND SURVEYING, LLC., 57 KELLER AVENUE, ROCKAWAY, NEW JERSEY, 07866 TITLE "BOUNDARY SURVEY," BLOCK 212, LOT 2.01, CRANFORD TOWNSHIP, UNION COUNTY, NEW JERSEY, DATED 4-2-2019

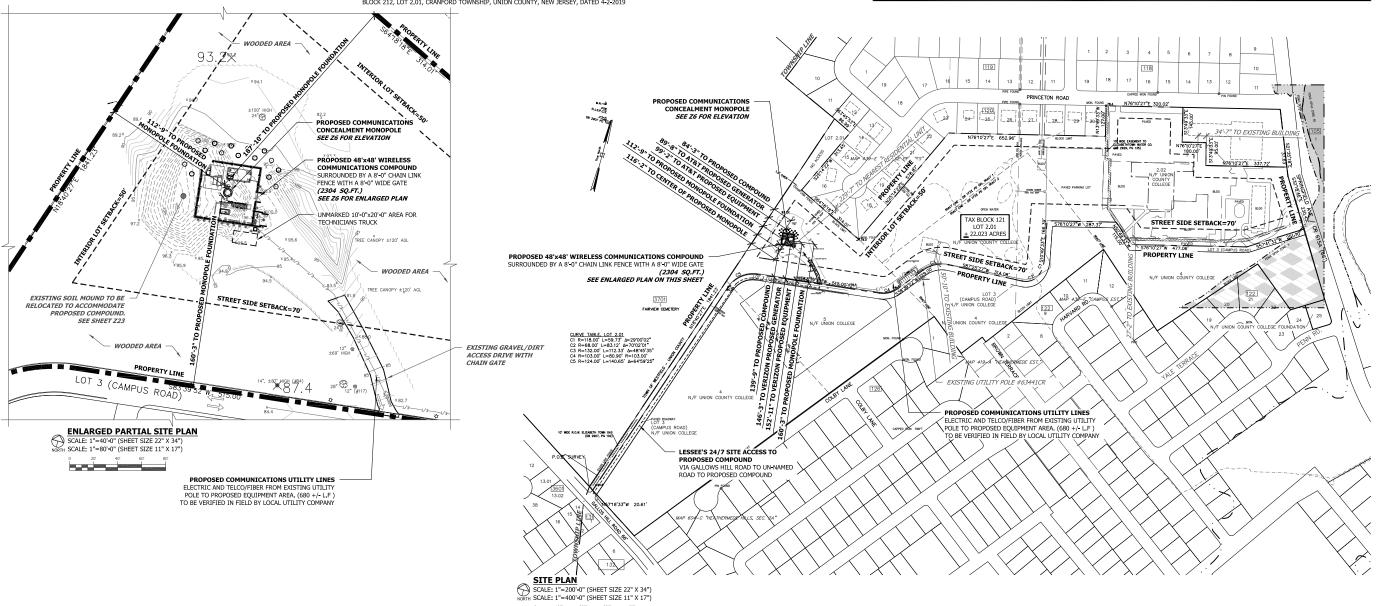
REGULATIONS FOR TELECOMMUNICATIONS ANTENNAS AND TOWERS TOWNSHIP OF CRANFORD, NEW JERSEY

BULK REGULATIONS	REQUIRED	EXISTING	PROPOSED	COMMENTS
MAX TOWER HEIGHT: ORD. 255-37 I(10)(a)	70'-0"	NO EXISTING TOWER	140'-0" TO TOP OF MONOPOLE * 148'-0" TO TOP OF CONCEALMENT BRANCHES * 143'-0" TO TOP OF VERIZON ANTENNA * 133'-0" TO TOP OF AT&T ANTENNAS * 124'-0" TO TOP OF T-MOBILE ANTENNAS *	
MIN. SETBACKS: ORD. 255-37 I(10)(b)	125% OF TOWER HEIGHT (1.25 x 140' = 175')	NO EXISTING TOWER	112'-9" TO PROPOSED MONOPOLE FOUNDATION *	
SEPARATION DISTANCE - ANY ZONE DISTRICT WHICH RESIDENTIAL USE IS PERMITTED: ORD. 255-37 I(10)(c)	300'-0" OR 300% OF TOWER - WHICHEVER IS > TO RESIDENTIAL UNIT (3.00 x 140' = 420')	NO EXISTING TOWER	229-7" TO NEAREST RESIDENTIAL UNIT * (BLOCK:119, LOT:17)	
MIN. SECURITY FENCING HEIGHT: ORD. 255-37 I(11)(a)	6'-0"	NONE EXISTING	8'-0" HIGH CHAIN LINK FENCE	
MAX. CABINET/STRUCTURE AREA: ORD. 255-37 I(12)(a)[1]	200 SQ. FT. GROSS FLOOR AREA	NONE EXISTING	41.5 SQ.FT. AT&T PROP. EQUIPMENT 10.1 SQ.FT. T-MOBLIE PROP. EQUIPMENT 16 SQ.FT. VERIZON PROP. EQUIPMENT	
MAX. CABINET/STRUCTURE HEIGHT: ORD. 255-37 I(12)(a)[1]	12'-0"	NONE EXISTING	10'-7" TO TOP OF AT&T PROP. EQUIPMENT 5'-5" TO TOP OF T-MOBILE PROPOSED EQUIPMENT 7'-1' TO TOP OF VERIZON PROP. EQUIPMENT	

* DENOTES VARIANCE

ORD. 255-37 I(4)(d)[1]: TOWER SHALL EITHER MAINTAIN A GALVANIZED STEEL FINISH OR, SUBJECT TO ANY APPLICABLE STANDARDS OF THE FAA, BE PAINTED A NEUTRAL COLOR, SO AS TO REDUCE VISUAL OBTRUSIVENESS. - COMPLIES

ORD. 255-37 I(11)(b)(3): EXISTING MATURE TREE GROWTH AND NATURAL LAND FORMS ON THE SITE SHALL BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. IN SOME CASES, SUCH AS TOWERS SITED ON LARGE, WOODED LOTS, NATURAL GROWTH AROUND THE PROPERTY PERIMETER MAY BE SUFFICIENT BUFFER - COMPLIES





Mount Olive, NJ 07828 O 973-726-7164 | **F** 973-726-7204 fcolasurdo@fcarchitectsinc.com

Frank Colasurdo Architects, Inc

Frank Colasurdo, RA

Date

NJ Lic. #13753 NY Lic. #029379-1 PA Lic. #RA403655 MA Lic. #32346 MD Lic. #19079

APPLICANT/CLIENT

Verionwireless **New York SMSA Limited** Partnership D/B/A Verizon Wireless

400 Warren Corporate Center Dr Building D Warren, NJ 07059 (908) 256-7000

CO-APPLICANT/CLIENT:



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One AT&T Way Bedminster, NJ 07921 (908) 532-1995

CO APPLICANT/CLIENT T-MOBILE NORTHEAST, LLC.

4 Sylvan Way Parsippany, NJ 07054 (973) 397-4800

WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

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0	PRELIMINARY ZONING DRAWINGS	11/28/18
ISSUE	DESCRIPTION OF CHANGE	ISSUE

SHEET TITLE

SITE PLAN & ZONING **INFORMATION**

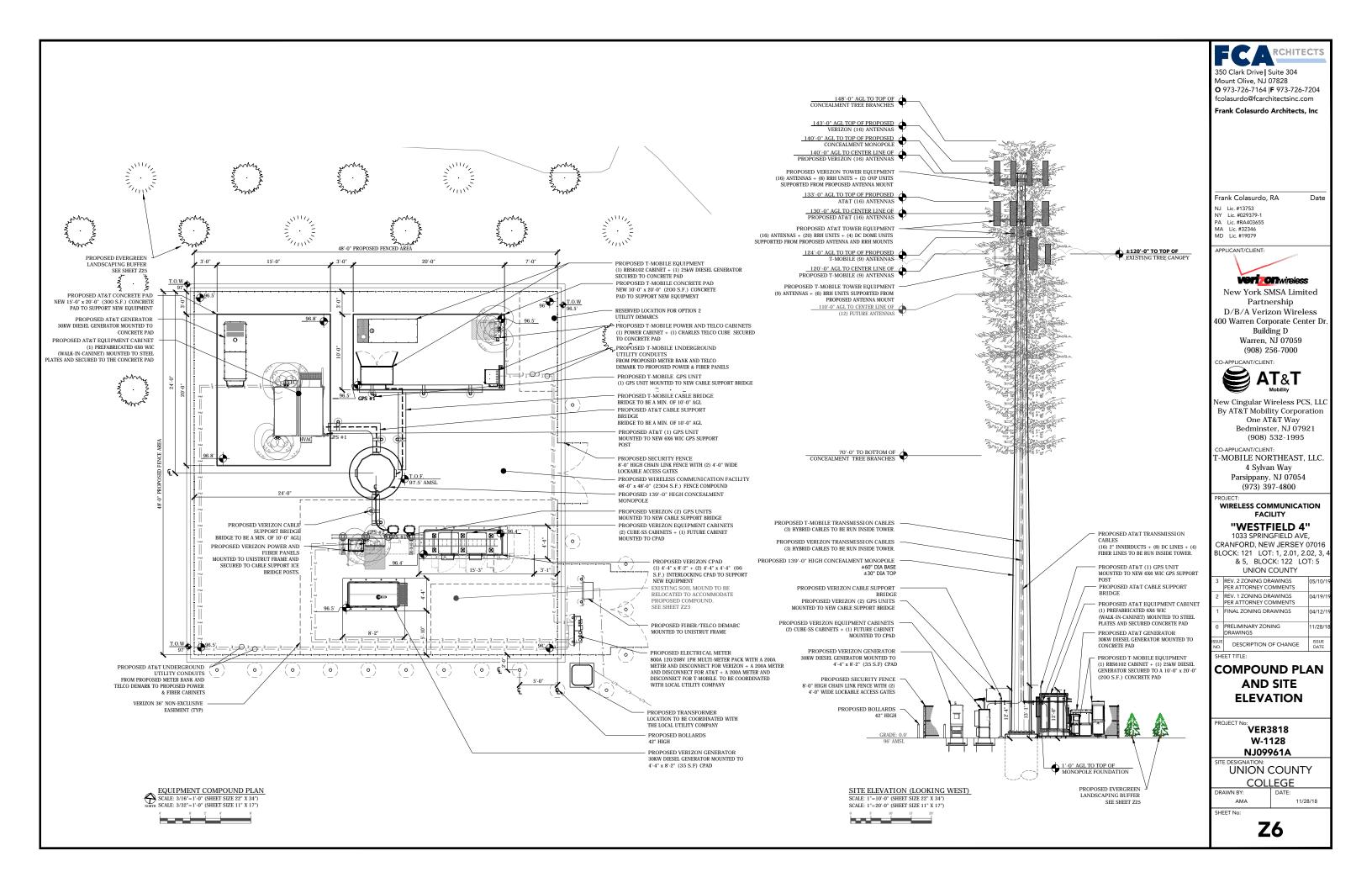
VER3818 W-1128 NJ09961B

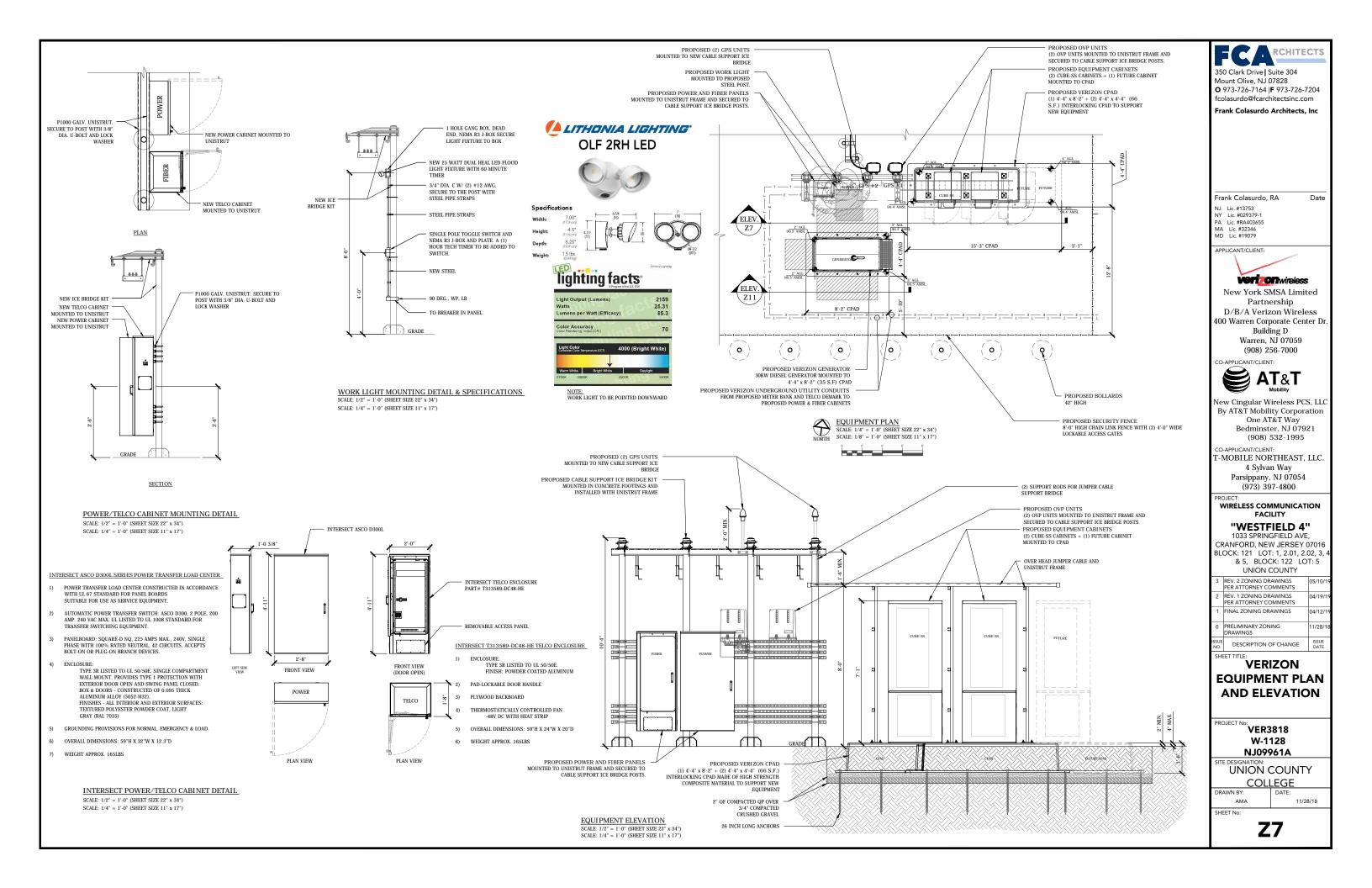
UNION COUNTY

COLLEGE 11/28/18

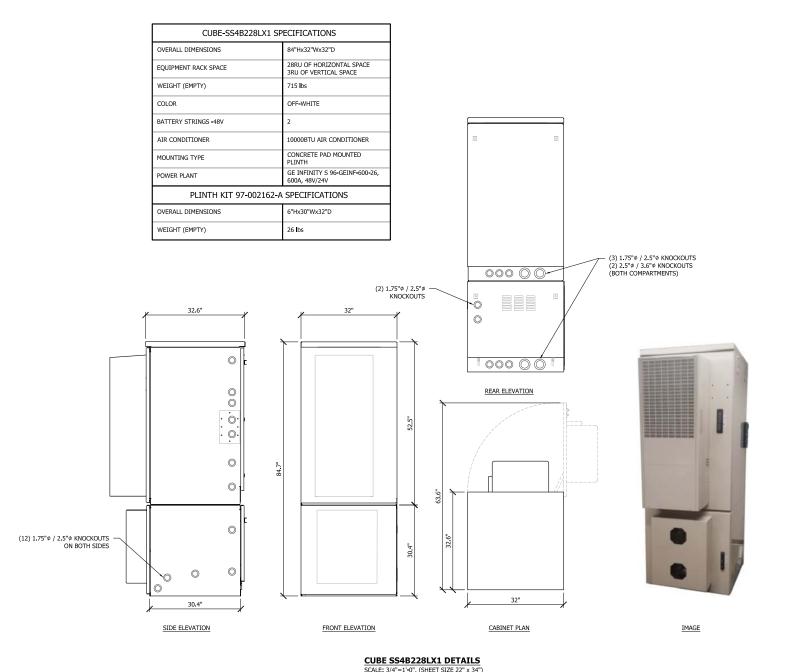
SHEET No:

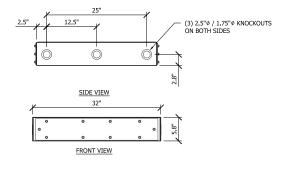
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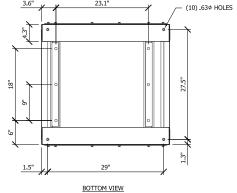




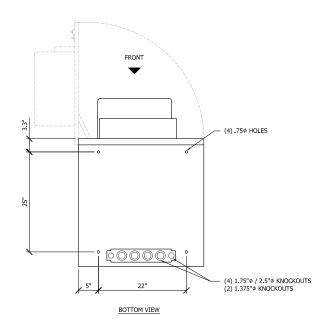
CHARLES INDUSTRIES CUBE-SS4B228LX1 CONFIGURATION SPECIFICATIONS







CUBE PLINTH BOLTING DETAIL



CUBE SS4B228LX1 BOLTING DETAIL SCALE: 1"=1'-0", (SHEET SIZE 22" x 34") SCALE: 1/2"=1'-0", (SHEET SIZE 11" x 17")

350 Clark Drive | Suite 304 O 973-726-7164 | **F** 973-726-7204 fcolasurdo@fcarchitectsinc.com

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WIRELESS COMMUNICATION FACILITY

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	0141014 0001411	
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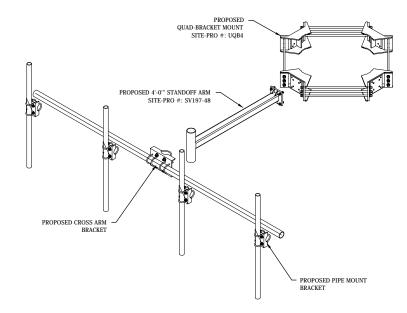
VERIZON EQUIPMENT

CABINET SPECIFICATIONS

VER3818 W-1128 NJ09961B

UNION COUNTY

AMA

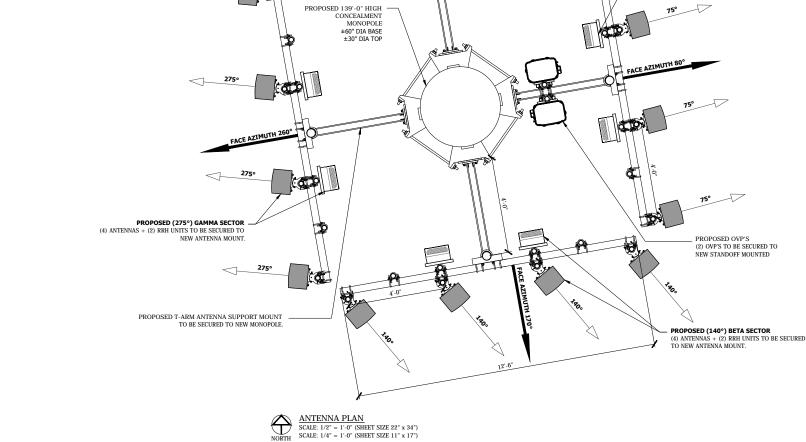


ANTENNA MOUNT EXPLODED ASSEMBLY ISO (TYP OF 4 SECTORS)

SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34") SCALE: 1/4" = 1'-0" (SHEET SIZE 11" X 17")



ANTENNA SPECIFICATIONS NOT TO SCALE





fcolasurdo@fcarchitectsinc.com Frank Colasurdo Architects, Inc

Date

Frank Colasurdo, RA

NJ Lic. #13753 NY Lic. #029379-1 PA Lic. #RA403655 MA Lic. #32346 MD Lic. #19079

APPLICANT/CLIENT:

PROPOSED (75°) ALPHA SECTOR

(4) ANTENNAS + (2) RRH UNITS TO BE SECURED TO NEW ANTENNA

PROPOSED (5°) DELTA SECTOR (4) ANTENNAS + (2) RRH UNITS TO BE SECURED

TO NEW ANTENNA MOUNT.

Veri Onwireless

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ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE **VERIZON ANTENNA PLAN**

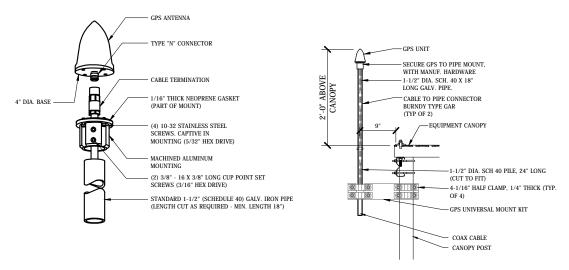
AND SPECIFICATIONS

VER3818 W-1128 NJ09961A

UNION COUNTY

COLLEGE DRAWN BY:

AMA SHEET No



ENLARGED GPS UNIT DETAIL NO SCALE

GPS MOUNTING DETAIL SCALE: 1" = 1'-0" (SHEET SIZE 22"X34") SCALE: 1/2" = 1'-0" (SHEET SIZE 11"X17")

RRH DETAILS: (B2/66a 320W AHFIC)

- DIMENSIONS: 12.12" W x 7.12" D x 22.04" H (WITH NO SOLAR SHIELD) - WEIGHT (WITHOUT BRACKETS) 79.4 LBS

- MOUNTING: POLE OR WALL MOUNTABLE

- RF OUTPUT POWER
- 40W PER TX, RF POWER SHARING MODE UP TO 60W(B66a)/ 20W
(B2): 320W PER RRH
- DC VOLTAGE:
-48V / -36V TO -60V
- DC POWER CONSUMPTION
- 688W (ETSI 24H AVC-8X20W MODE)
- ANTENNA PORTS: 8 PORTS , 4.3-10+

BOTTOM 12.12" FRONT SIDE

RRH (HIGH BAND) SPECIFICATIONS SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

RRH DETAILS: (B5/13 320W AHBCC)

- DIMENSIONS: 12.12" W x 7.44" D x 22.02" H (WITH SOLAR SHIELD) - WEIGHT (WITHOUT BRACKETS) 83.77 LBS

- MOUNTING: POLE OR WALL MOUNTABLE

- MOUNTING: POLE OR WALL MOUNTA - RF OUTPUT POWER - 40W PER BAND, 80W PER TX - DC VOLTAGE: -48V / -36V TO -60V - DC POWER CONSUMPTION

- 688W (ETSI 24H AVG - 4X20W PER BAND, 40W PER TX PORT) - ANTENNA PORTS: 4 PORTS , 4.3-10+

BOTTOM 12.12" FRONT SIDE

RRH (LOW BAND) SPECIFICATIONS SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

OVP DETAILS: (RxxDC-3315-PF-48)

- DIMENSIONS (WITHOUT BRACKET): 15.73" W X 10.31" D X 19.15" H

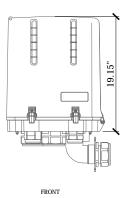
- DIMENSIONS (WITHOUT BRACKET): 15.7.
- WEIGHT
(WITHOUT BRACKETS) 32 LBS
- MOUNTING: POLE OR WALL MOUNTABLE

- MOUNTINC: POLE OR WALL MOUNTABLE
- NOMINAL DEBEATING VOLTAGE: 48 VDC
- NOMINAL DISCHARGE CURRENT: 20KA 8/20 US
- MAXIMUM SURGE CURRENT: 80 KA 8/20 US
- VOLTAGE PROTECTION: 400V
- FIBER CONNECTION METHOD: LC-LC SINGLE MODE
- SUPPRESSION CONNECTION METHOD: COMPRESSION LUG, #20-#6 AWG

15.73"

MOUNTING BRACKET NOT SHOWN FOR CLARITY

10.31"



EXTERIOR OVP SPECIFICATIONS SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

RCHITECTS 350 Clark Drive | Suite 304 Mount Olive, NJ 07828 **O** 973-726-7164 | **F** 973-726-7204 fcolasurdo@fcarchitectsinc.com Frank Colasurdo Architects, Inc

Frank Colasurdo, RA

Date

NJ Lic. #13753 NY Lic. #029379-1 PA Lic. #RA403655 MA Lic. #32346 MD Lic. #19079

APPLICANT/CLIENT



New York SMSA Limited Partnership D/B/A Verizon Wireless 400 Warren Corporate Center Dr. Building D Warren, NJ 07059 (908) 256-7000

CO-APPLICANT/CLIENT:



New Cingular Wireless PCS, LLC By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995

CO-APPLICANT/CLIENT: T-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054

(973) 397-4800

WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, & 5, BLOCK: 122 LOT: 5 UNION COUNTY

REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS FINAL ZONING DRAWINGS PRELIMINARY ZONING DRAWINGS DESCRIPTION OF CHANGE

VERIZON RRH'S & GPS DETAILS AND SPECIFICATIONS

PROJECT No: VER3818 W-1128 NJ09961A

UNION COUNTY

COLLEGE

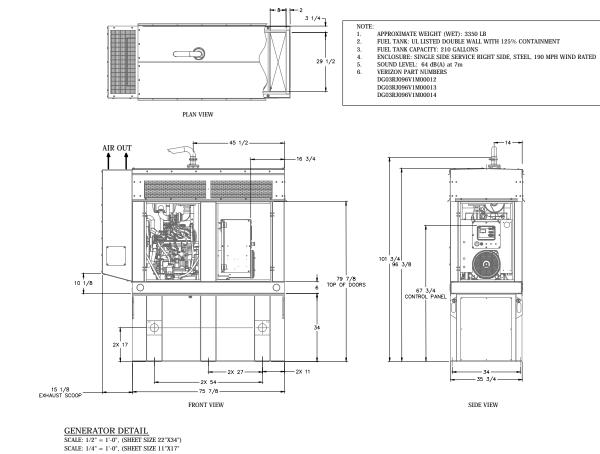
ΔΜΔ SHEET No

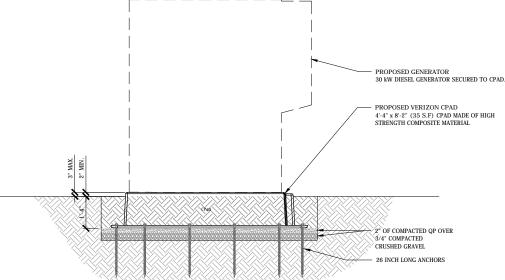
Z10

11/28/18

30 kW DIESEL GENERATOR 120/208V, 1 PHASE

GENERATOR TO BE INSTALLED WITH SOUND ATTENUATION ENCLOSURE AND CRITICAL GRADE MUFFLER ASSEMBLY





GENERATOR CONCRETE PAD DETAIL

UTILITY TRENCH DETAIL SCALE: 1/2" = 1'-0", (SHEET SIZE 22"x34") SCALE: 1/4" = 1'-0", (SHEET SIZE 11"x17")



Mount Olive, NJ 07828 **O** 973-726-7164 | **F** 973-726-7204 fcolasurdo@fcarchitectsinc.com

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Veri Offwireless

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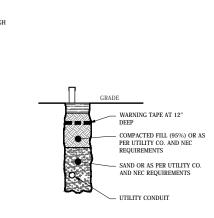
	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/
	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/
1	FINAL ZONING DRAWINGS	04/12/
0	PRELIMINARY ZONING DRAWINGS	11/28/
ISSUE	DESCRIPTION OF CHANGE	ISSUE

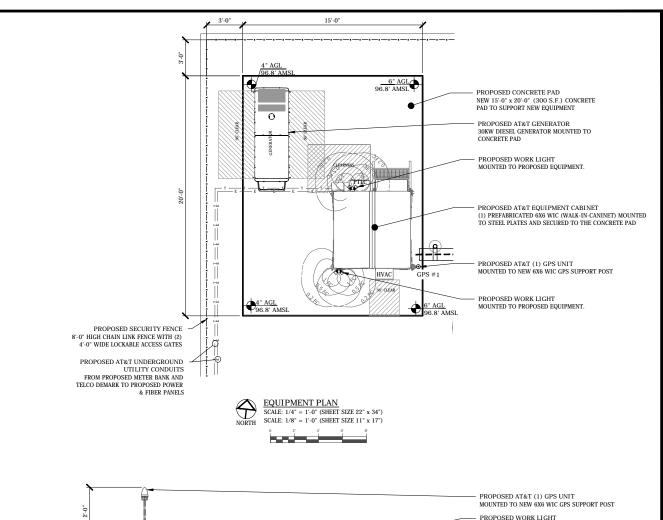
VERIZON GENERATOR SPECIFICATIONS

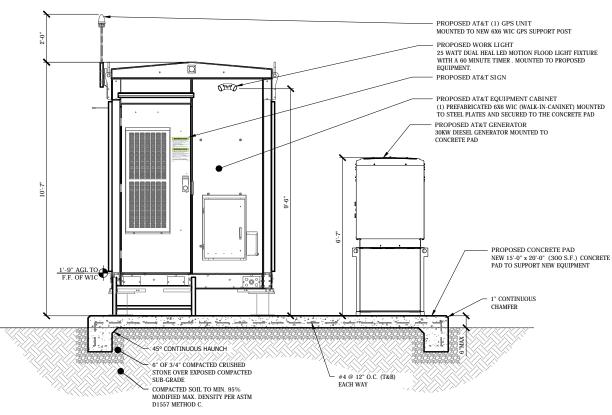
PROJECT No: VER3818 W-1128 NJ09961A

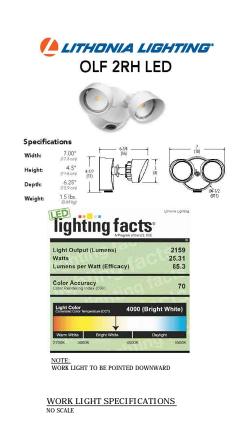
UNION COUNTY

COLLEGE ΔΜΔ









EQUIPMENT ELEVATION

SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")

SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")

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Parsippany, NJ 07054 (973) 397-4800

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	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/
1	FINAL ZONING DRAWINGS	04/12/
0	PRELIMINARY ZONING DRAWINGS	11/28/
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE:

AT&T **EQUIPMENT PLAN AND ELEVATION**

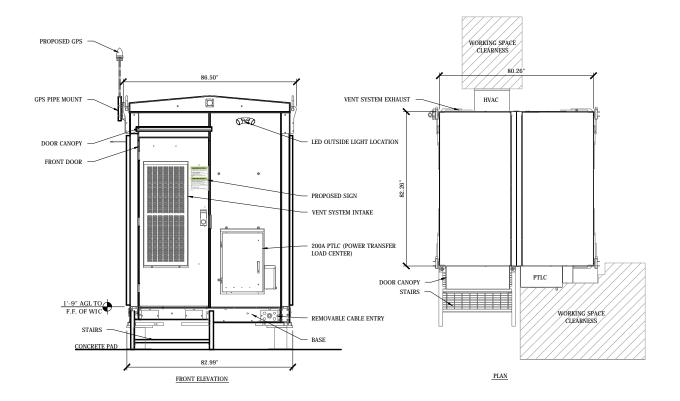
PROJECT No: VER3818 W-1128 NJ09961A

UNION COUNTY

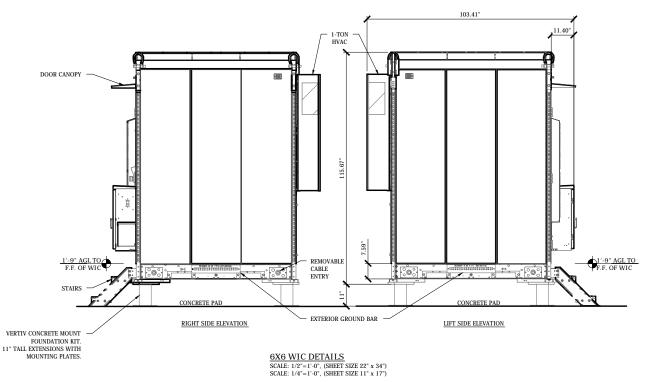
COLLEGE

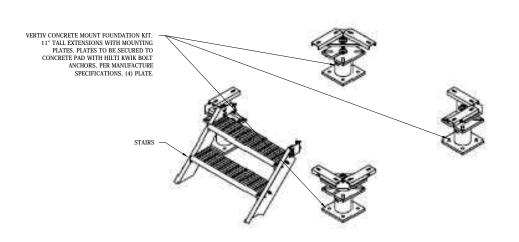
ΔΜΔ SHEET No

VERTIV 6X6 WIC (WALK-IN-CLOSET) XTE 802 SERIES SPECIFICATIONS









CONCRETE MOUNT KIT DETAIL

350 Clark Drive | Suite 304 Mount Olive, NJ 07828 O 973-726-7164 | F 973-726-7204 fcolasurdo@fcarchitectsinc.com

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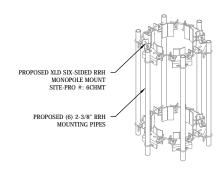
REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10
REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/
FINAL ZONING DRAWINGS	04/12
PRELIMINARY ZONING DRAWINGS	11/28/
DESCRIPTION OF CHANGE	ISSUE DATE
	PER ATTORNEY COMMENTS REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS FINAL ZONING DRAWINGS PRELIMINARY ZONING DRAWINGS

AT&T **EQUIPMENT CABINET SPECIFICATIONS**

PROJECT No: VER3818 W-1128 NJ09961A

UNION COUNTY

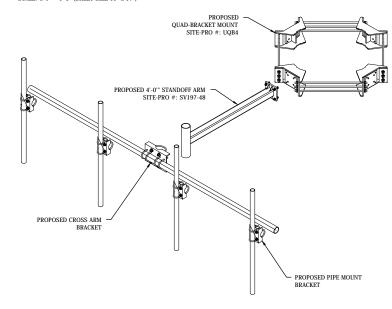
COLLEGE



RRH MOUNT ISOMETRIC

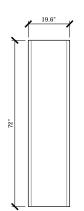
SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")

SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")



ANTENNA MOUNT EXPLODED ASSEMBLY ISO (TYP OF 4 SECTORS)

SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34") SCALE: 1/4" = 1'-0" (SHEET SIZE 11" X 17")



COMMSCOPE®

NNHH-65B-R4

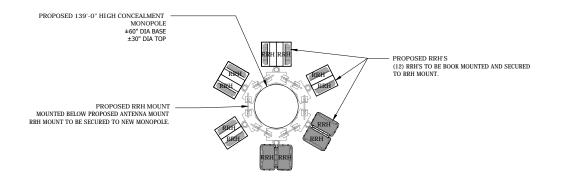
8-port sector antenna, 4x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 4x RETs



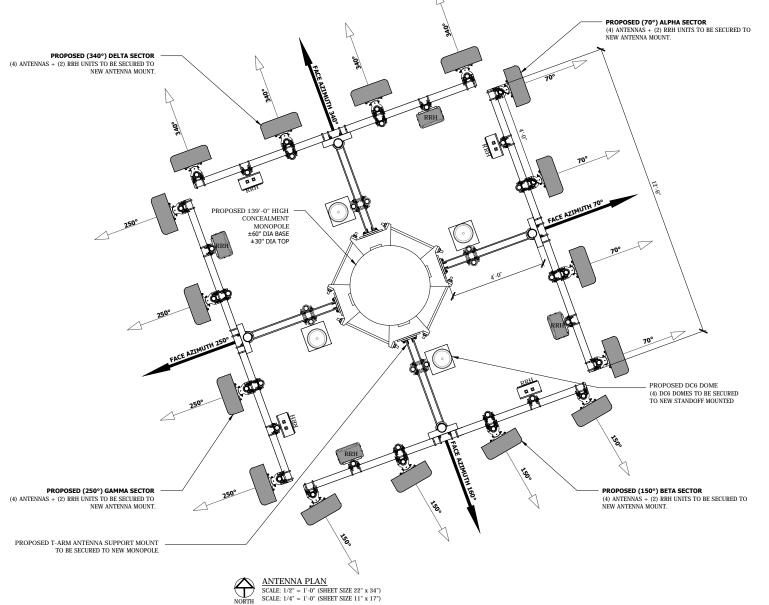
Dimensions

1828.0 mm | 72.0 in Width 498.0 mm | 19.6 in 197.0 mm | 7.8 in 35.1 kg | 77.4 lb Net Weight, without mounting kit

ANTENNA SPECIFICATIONS NOT TO SCALE







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WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

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	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1
	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1
1	FINAL ZONING DRAWINGS	04/12/1
0	PRELIMINARY ZONING DRAWINGS	11/28/1
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

AT&T ANTENNA

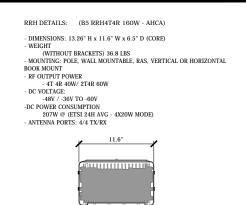
PLAN AND DETAILS

PROJECT No: VER3818 W-1128 NJ09961A

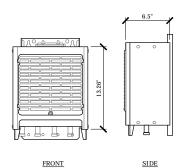
UNION COUNTY

COLLEGE DRAWN BY: ΔΜΔ

SHEET No



BOTTOM



RRH 850 SPECIFICATIONS SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET) SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

FRONT

RH DETAILS: (RRH2X40-07L-DE)

- DIMENSIONS: 24.8" H x 11.4" W x 6.1" D (WITH SOLAR SHIELD)

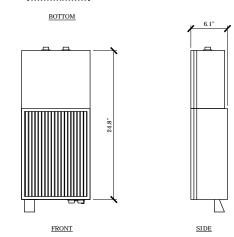
- WEIGHT (WITHOUT BRACKETS) 52 LBS - MOUNTING: POLE OR WALL MOUNTABLE - RF OUTPUT POWER

- 2X40W OR 2X30W - DC VOLTAGE:

-DC POWER CONSUMPTION

-300W (AT 2X40W CONTINUOUS RF POWER) -260W (AT 2X30W CONTINUOUS RF POWER)

11.4"



RRH 700 DE SPECIFICATIONS SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET) SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

RRH DETAILS: (B12/B14 RRH4T4R 320W - AHLBA)

- DIMENSIONS: 22" H x 12.12" W x 6.96" D (WITH SOLAR SHIELD)

- WEIGHT
(WITHOUT BRACKETS) 77 LBS
- MOUNTING: POLE, WALL MOUNTABLE, RAS, VERTICAL OR HORIZONTAL
BOOK MOUNT
- RF OUTPUT POWER

- 80W PER TX PORT SHARED BETWEEN BANDS (4X40W PER BAND)
- DC VOLTAGE:

- DC VOLTAGE:

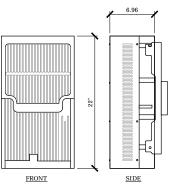
-48V / -38V TO -60V
-DC POWER CONSUMPTION

525W (ETSI 24H AVG - 4X20W PER BAND, 40W PER TX PORT)

- ANTENNA PORTS: 4 PORTS TX/RX

12.12"

BOTTOM



RRH LOW BAND SPECIFICATIONS SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET) SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

RRH DETAILS: (B30 RRH4T4R 100W - AHNA)

4" DIA. BASE

DIMENSIONS: 13.24" H x 12.04" W x 5.5" D (CORE)

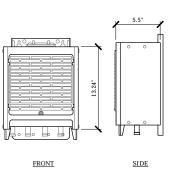
(WITHOUT RRACKETS) 34 17 LRS

- MOUNTING: POLE, WALL MOUNTABLE
- RF OUTPUT POWER
- 4T 4R 25W/ TX
- DC VOLTAGE:

- 48V / -36V TO -60V -DC POWER CONSUMPTION ESTIMATED 515W @100% - ANTENNA PORTS: 4/4 TX/RX

12.04"

BOTTOM



RRH 2100 SPECIFICATIONS SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

RRH DETAILS: (B25/B66 RRH4T4R 320W - AHFIB)

- DIMENSIONS: 22" H x 12.12" W x 5.86" D (WITH SOLAR SHIELD)

(WITHOUT BRACKETS) 60 LBS

- MOUNTING: POLE, WALL MOUNTABLE, RAS, VERTICAL OR HORIZONTAL BOOK MOUNT - RF OUTPUT POWER

- BAND 25 - 4X40W, BAND 66 - 4X40W - DC VOLTAGE:

-48V / -36V TO -60V

- GPS ANTENNA

TYPE "N" CONNECTOR

CABLE TERMINATION

(PART OF MOUNT)

1/16" THICK NEOPRENE GASKET

(4) 10-32 STAINLESS STEEL SCREWS. CAPTIVE IN

MACHINED ALUMINUM MOUNTING

ENLARGED GPS UNIT DETAIL NO SCALE

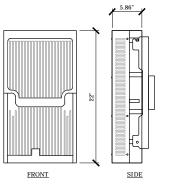
MOUNTING (5/32" HEX DRIVE)

(2) 3/8" - 16 X 3/8" LONG CUP POINT SET

STANDARD 1-1/2" (SCHEDULE 40) GALV. IRON PIPE

-46V / -50V 10 -60V
-DC POWER CONSUMPTION
525W (ETSI 24H AVG - 4X20W PER BAND, 40W PER TX PORT)
- ANTENNA PORTS: 4 PORTS TX/RX

BOTTOM



RRH HIGH BAND SPECIFICATIONS SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

SUPPORT FRAME PIPE -

GPS MOUNTING DETAIL NOT TO SCALE

GPS PIPE SUPPORT

SUPPORT FRAME PIPE

NOTES: 1) 9.7" ϕ X 23.5" H (NOT INCLUDING FRAME)

SEE DETAIL A ON THIS SHEET

-1-1/2" DIA. SCH. 40 X 18" LONG

TYPE GAR (TYP OF 2)

COAX CABLE

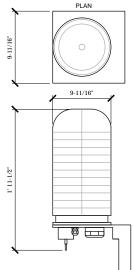
VALMONT PIPE CLAMP

CABLE TO PPE CONNECTOR BURNDY

SECURE GPS TO PIPE MOUNT. WITH MANUF.

INSTALL WITHIN 6 FEET OF RRH 60kA SURGE CURRENT CAPACITY PER CIRCUIT

PROTECTS UP TO 6 RRH'S



DC SUPPRESSOR SPECIFICATIONS

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WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

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REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS FINAL ZONING DRAWINGS PRELIMINARY ZONING DRAWINGS DESCRIPTION OF CHANGE

> AT&T RRH'S & **GPS DETAILS AND SPECIFICATIONS**

PROJECT No: VER3818 W-1128

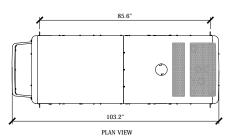
NJ09961A UNION COUNTY

COLLEGE DRAWN BY:

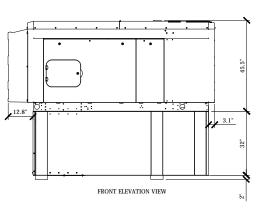
ΔΜΔ SHEET No.

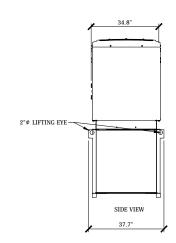
30 kW DIESEL GENERATOR 120/208V, 1 PHASE

GENERATOR TO BE INSTALLED WITH SOUND ATTENUATION ENCLOSURE LEVEL 2

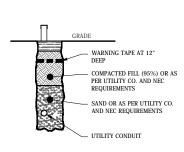


- APPROXIMATE WEIGHT (WET): 2236 LBS
- APPROXIMATE WEIGHT (WET): 2236 LBS
 FUEL TANK: UL LISTED DOUBLE WALL WITH 110% CONTAINMENT
 FUEL TANK CAPACITY: 195 GALLONS
 ENCLOSURE: ALUMINUM MATERIAL, DURABLE POWDER COAT
 PAINT, 180 MPH WIND RATED
 SOUND LEVEL: 67.5 dB(A) at 7m

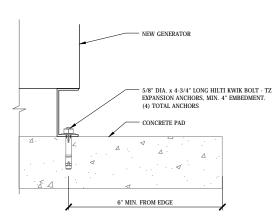




GENERATOR DETAIL
SCALE: 1/2" = 1'-0", (SHEET SIZE 22"X34")
SCALE: 1/4" = 1'-0", (SHEET SIZE 11"X17"



UTILITY TRENCH DETAIL SCALE: 1/2" = 1'-0", (SHEET SIZE 22"x34") SCALE: 1/4" = 1'-0", (SHEET SIZE 11"x17")



GENERATOR TIE DOWN DETAIL SCALE: 6" = 1'-0" (SHEET SIZE 22"X34") SCALE: 3" = 1'-0" (SHEET SIZE 11"X17")

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WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, & 5, BLOCK: 122 LOT: 5 UNION COUNTY

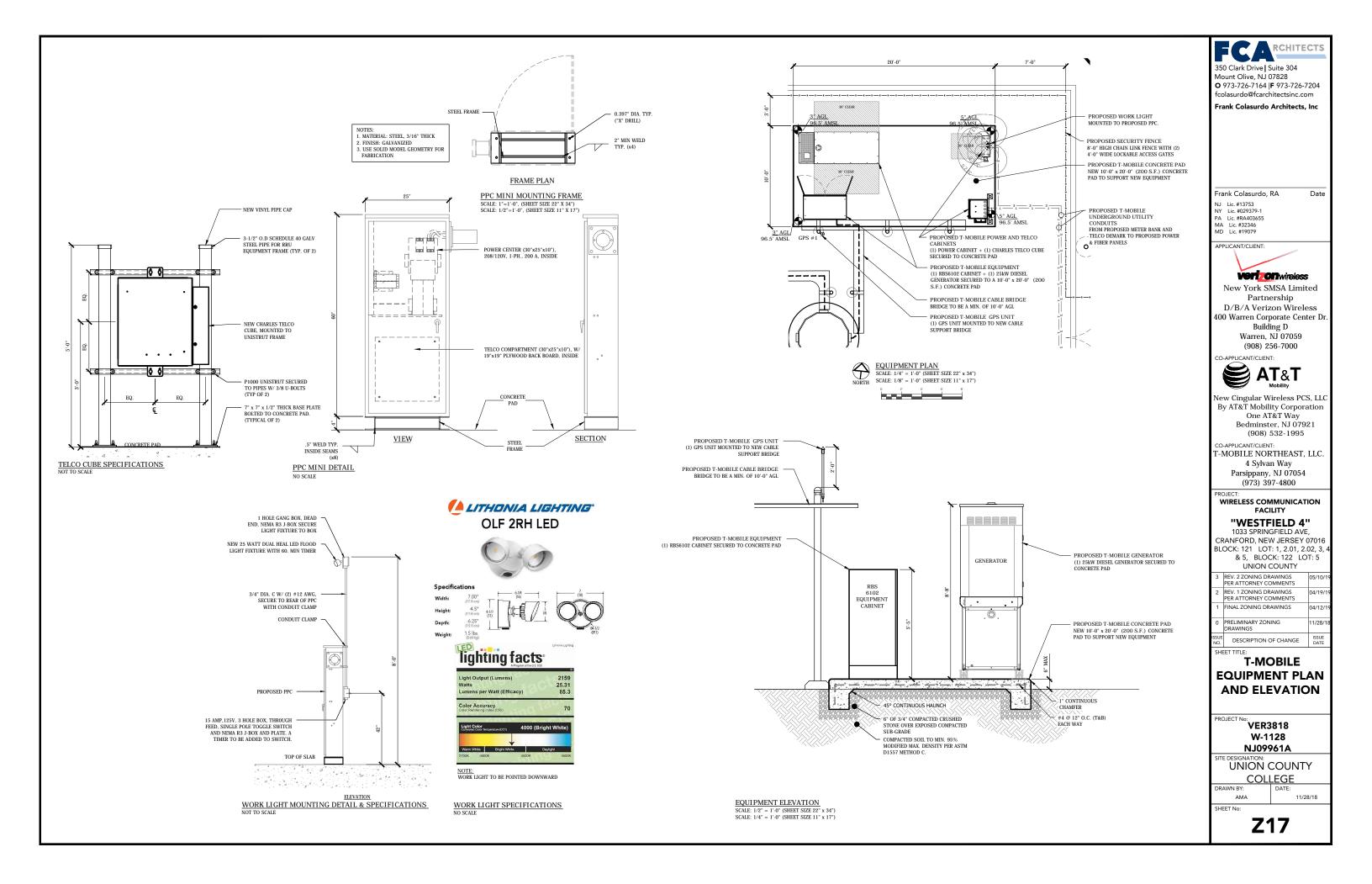
3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/1
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/1
1	FINAL ZONING DRAWINGS	04/1
0	PRELIMINARY ZONING DRAWINGS	11/2
ISSUE	DESCRIPTION OF CHANGE	ISS

AT&T **GENERATOR SPECIFICATIONS**

PROJECT No: VER3818 W-1128 NJ09961A

UNION COUNTY COLLEGE

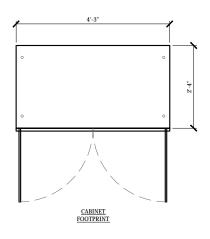
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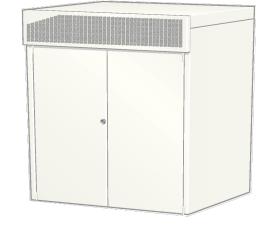


RBS 6102 CONFIGURATION SPECIFICATIONS

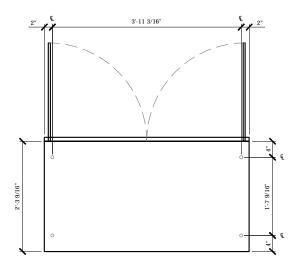
RBS 6102 SPECIFICATIONS

PECIFICATION	CABINET	
WEIGHT	727.5lbs (330kg)	
DIMENSIONS	57x51.2x27.5 (1450x1300x700)	
CLEARANCE TOLERANCE	•	
FRONT	27.5" (700mm)	
REAR	7.9" (200mm)	
CABLING SIDE	4" (100mm)	
OTHER SIDE	4" (100mm)	





IMAGE



PROPOSED T-MOBLE SIGN

SIDE ELEVATION

FRONT ELEVATION

SIDE ELEVATION

RBS 6102 BOLTING DETAIL
SCALE: 3/4"=1"-0", (SHEET SIZE 22" x 34")
SCALE: 3/8"=1"-0", (SHEET SIZE 11" x 17")

RBS 6102 CABINET DETAILS

SCALE: 3/4"=1"-0", (SHEET SIZE 22" x 34")
SCALE: 3/8"=1"-0", (SHEET SIZE 11" x 17")

350 Clark Drive | Suite 304 Mount Olive, NJ 07828 O 973-726-7164 | F 973-726-7204 fcolasurdo@fcarchitectsinc.com

Frank Colasurdo, RA Da

NJ Lic. #13753

NY Lic. #029379-1

PA Lic. #82403655

MA Lic. #32346

MD Lic. #19079

APPLICANT/CLIENT

veri onwireless

New York SMSA Limited Partnership D/B/A Verizon Wireless 400 Warren Corporate Center Dr. Building D Warren, NJ 07059 (908) 256-7000

CO-APPLICANT/CLIENT:



New Cingular Wireless PCS, LLC By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995

CO-APPLICANT/CLIENT: T-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054 (973) 397-4800

WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, & 5, BLOCK: 122 LOT: 5 UNION COUNTY

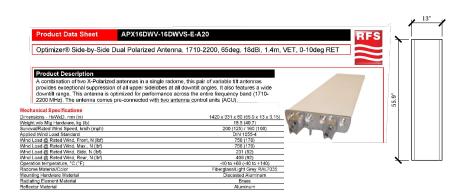
T-MOBILE
EQUIPMENT
CABINET
SPECIFICATIONS

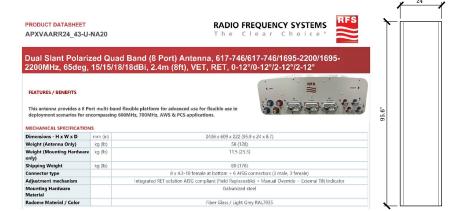
VER3818 W-1128 NJ09961A

SITE DESIGNATION:
UNION COUNTY

COLLEGE

AMA SHEET No:







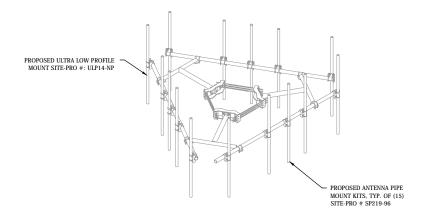
AIR 3246 BAND 66

- Radio
- 32 TX/RX - 90 MHz IBW
- 60 MHz LTE CBW
- Up to 3 carriers LTE
- 160 W total RF conducted power
- > Baseband interface 4 x 10.1 Gbps CPRI
- Mechanical properties
- Size (H x W x D):1475x400x238 mm
- Weight : 81 Kg (estimated)
-) Power
- -48v DC, 3 wire or 2 wire
- Max Power consumption: < 1350 w (estimated)
- 120/230 VAC via supervised external PSU



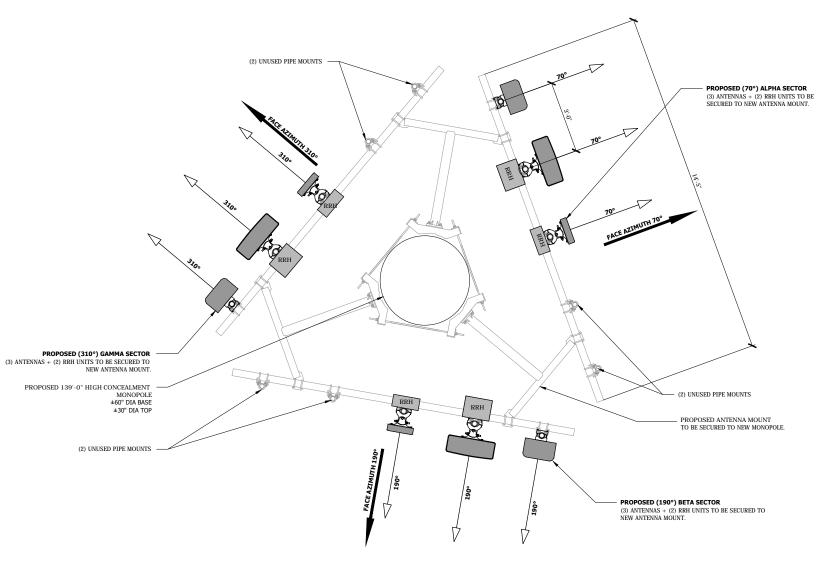


ANTENNA SPECIFICATIONS NOT TO SCALE



ANTENNA MOUNT

SCALE: 1/4" = 1'-0" (SHEET SIZE 22" x 34") SCALE: 1/2" = 1'-0" (SHEET SIZE 11" X 17")





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1	FINAL ZONING DRAWINGS	04/12/1
0	PRELIMINARY ZONING DRAWINGS	11/28/1
ISSUE	DESCRIPTION OF CHANGE	ISSUE

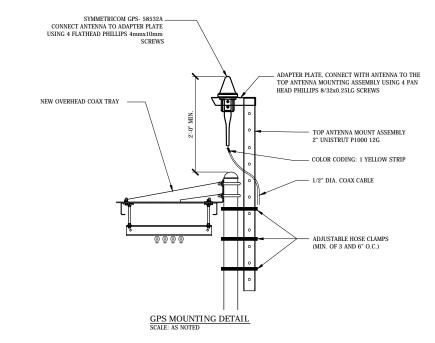
T-MOBILE **ANTENNA PLAN AND DETAILS**

PROJECT No: VER3818 W-1128 NJ09961A

UNION COUNTY

COLLEGE

ΔΜΔ SHEET No



RRH DETAILS: (RRH 4449 B12, B17)

- DIMENSIONS: 14.94" H x 13.18" W x 9.25" D (CORE)

- WEIGHT (WITHOUT BRACKETS) 74 LBS - MOUNTING: POLE, WALL MOUNTABLE

- RF OUTPUT POWER
- 4T 4R
- DC VOLTAGE:

-DC POWER CONSUMPTION ESTIMATED 1400W @100% - ANTENNA PORTS: 4/4 TX/RX



RRH SPECIFICATIONS SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET) SCALE: 3/4" = 1'-0" (11" X 17" SHEET) RRH DETAILS: (RRH 4415 B66A)

- DIMENSIONS: 16.5" H x 13.4" W x 5.9" D (CORE)
- WEIGHT
(WITHOUT BRACKETS) 46 LBS
- MOUNTING: POLE, WALL MOUNTABLE
- RF OUTPUT POWER
- 4X40W
- DC VOLTAGE:
- 48V VDC 3-WIRE
- DC POWER CONSUMPTION
ESTIMATED 570-680W @100%
- ANTENNA PORTS: 4/4 TX/RX



RRH SPECIFICATIONS SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET) SCALE: 3/4" = 1'-0" (11" X 17" SHEET) 350 Clark Drive | Suite 304 Mount Olive, NJ 07828 **O** 973-726-7164 | **F** 973-726-7204 fcolasurdo@fcarchitectsinc.com

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WIRELESS COMMUNICATION FACILITY

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CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4 & 5, BLOCK: 122 LOT: 5 UNION COUNTY

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0	PRELIMINARY ZONING DRAWINGS	11/28/
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

T-MOBILE RRH'S **& GPS DETAILS AND SPECIFICATIONS**

PROJECT No: VER3818

W-1128 NJ09961A

UNION COUNTY

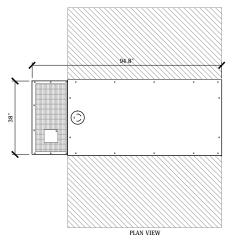
COLLEGE DRAWN BY:

SHEET No:

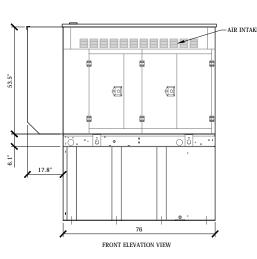
AMA

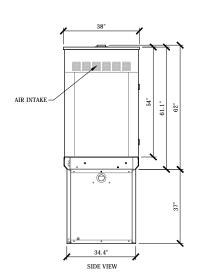
25 kW DIESEL GENERATOR 120/208V, 1 PHASE

GENERATOR TO BE INSTALLED WITH SOUND ATTENUATION ENCLOSURE LEVEL 2



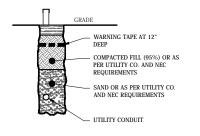
- :: APPROXIMATE WEIGHT (DRY): 3264 LBS FUEL TANK: UL LISTED DOUBLE WALL WITH 110% CONTAINMENT FUEL TANK CAPACITY: 211 GALLONS
- ENCLOSURE: HIGH PERFORMANCE SOUND-ABSORBING MATERIAL ALUMINUM MATERIAL. RHINO - TEXTURED POLYESTER POWDER



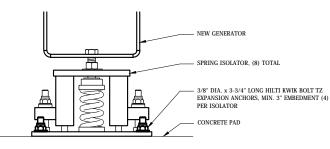


GENERATOR DETAIL

SCALE: 1/2" = 1'-0", (SHEET SIZE 22"X34") SCALE: 1/4" = 1'-0", (SHEET SIZE 11"X17"



UTILITY TRENCH DETAIL SCALE: 1/2" = 1'-0", (SHEET SIZE 22"x34") SCALE: 1/4" = 1'-0", (SHEET SIZE 11"x17")



GENERATOR TIE DOWN DETAIL

350 Clark Drive | Suite 304 Mount Olive, NJ 07828 **O** 973-726-7164 | **F** 973-726-7204 fcolasurdo@fcarchitectsinc.com

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(973) 397-4800

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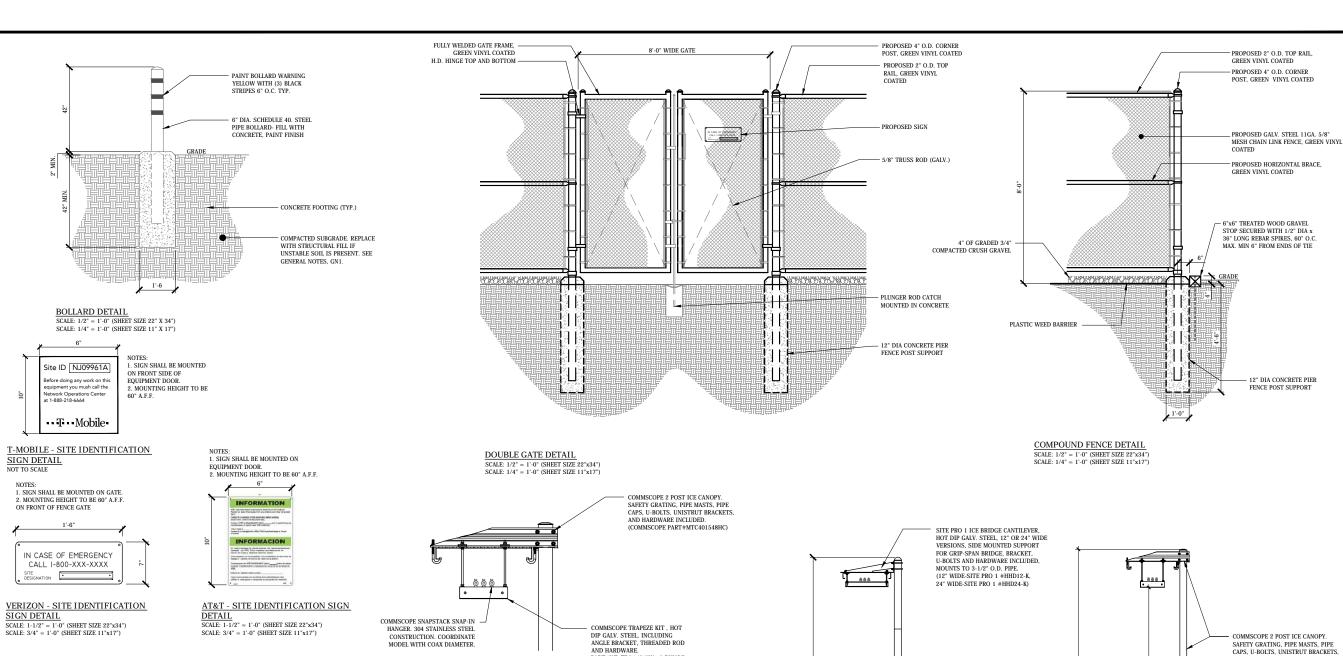
ı		REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/
ı		REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/
ı	1	FINAL ZONING DRAWINGS	04/12/
ı	0	PRELIMINARY ZONING DRAWINGS	11/28/
	ISSUE	DESCRIPTION OF CHANGE	ISSUE

T-MOBILE **GENERATOR SPECIFICATIONS**

PROJECT No: VER3818 W-1128 NJ09961A

UNION COUNTY COLLEGE

ΔΜΔ



ROUND VINYL CAPS - VC SERIES

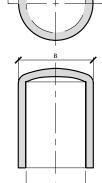
SERIES VC CAPS ARE EXTREMELY FLEXIBLE AND DURABLE PROTECTIVE CLOSURES WHICH ARE IDEAL FOR USE AS THREAD PROTECTORS, DUST AND MOISTURE SEALS, PIPE AND STUD END COLOR CODING, AND FOR MASKING DURING PAINTING OR PLATING OPERATIONS. IF YOUR APPLICATION IS EXPOSED TO EXTREME HEAT, TRY OUR HVC SERIES .
THE HVC SERIES IS MANUFACTURED IN OUR FLEX500® MATERIAL THAT OFFERS HEAT RESISTANCE UP TO AND BEYOND 500°F.
CAPLUGS FLEX500® MATERIAL MAINTAINS THE SAME FLEXIBLE NATURE OF STANDARD VINYL BUT OFFERS THE ADDED HEAT RESISTANCE FOR FINISHING APPLICATIONS SUCH AS POWDER COATING, E-COATING, AND

MATERIAL: VINYL STANDARD COLOR: BLACK OPTIONAL COLORS: WHITE, BROWN, ORANGE, GREEN, GRAY, BLUE, YELLOW, RED

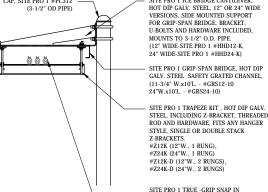
MANUFACTURED BY CAPLUGS: 1-814-868-3671

NOTE: G.C. TO PURCHASE AND INSTALL CAP PLUGS AT G.C. TO FORCHASE AND INSTALL CAP FLOGS AT PROPOSED AND EXISTING ANTENNA SECTOR MOUNTS. (4) PER MOUNT. AFTER INSTALLATION THE G.C. IS TO DRILL A 1/8" DIA. WEEP HOLE AT THE BASE OF EACH PIPE SUPPORT AT EACH

VINYL PIPE CAP DETAIL NOT TO SCALE



PART#WB-TD24 (24"W., 2 RUNGS) CAP. SITE PRO 1 #PC312 SITE PRO 1 ICE BRIDGE CANTILEVER.



CONSTRUCTION. COORDINATE MODEL WITH COAX DIAMETER.

TRAPEZE COAX SUPPORT SCALE: 1" = 1'-0" (SHEET SIZE 22"x34") SCALE: 1/2" = 1'-0" (SHEET SIZE 11"x17")

COMMSCOPE 2 POST ICE CANOPY. SAFETY GRATING, PIPE MASTS, PIPE CAPS, U-BOLTS, UNISTRUT BRACKETS, 3-1/2 O.D. HOT DIP GALV. STEEL PIPE COLUMN, SITE PRO 1 #P3160 (13'-4"H.) SITE PRO 1 #P3174 (14'-6"H.) GRADE 12" DIA. CONCRETE 12" DIA. CONCRETE

OVERHEAD COAX SUPPORT TRAY

350 Clark Drive | Suite 304 Mount Olive, NJ 07828 O 973-726-7164 | F 973-726-7204 fcolasurdo@fcarchitectsinc.com

Frank Colasurdo Architects, Inc

Date

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WIRELESS COMMUNICATION FACILITY

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REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS FINAL ZONING DRAWINGS 04/12/ PRELIMINARY ZONING DRAWINGS DESCRIPTION OF CHANGE

MISCELLANEOUS SITE DETAILS

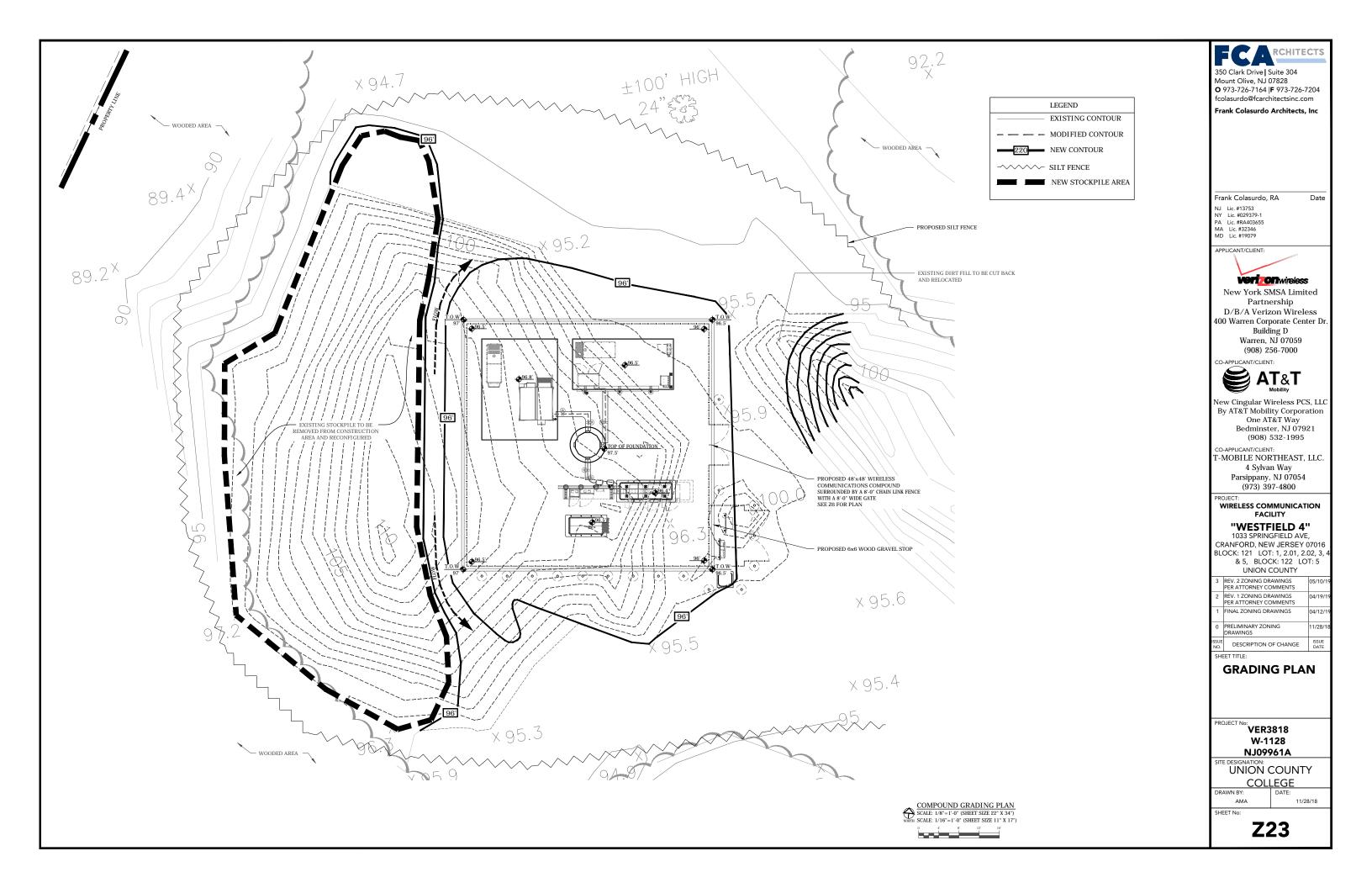
PROJECT No: VER3818

W-1128 NJ09961A

UNION COUNTY COLLEGE

DRAWN BY ΔΜΔ

SHEET No.





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Veri Offwireless

Date

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Parsippany, NJ 07054 (973) 397-4800

BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4 & 5, BLOCK: 122 LOT: 5 UNION COUNTY

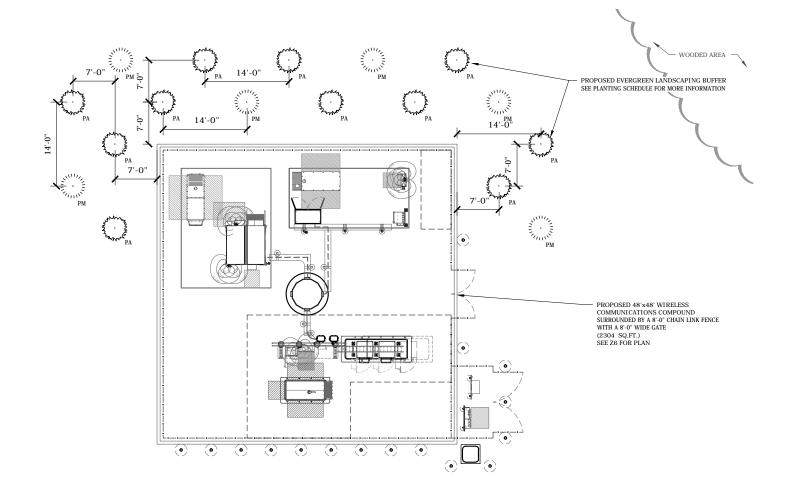
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0	PRELIMINARY ZONING DRAWINGS	11/28/1
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

	PLANTING SCHEDULE							
SYMBOL	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE	COMMENTS			
FA	Picea abies	"NORWAY SPRUCE"	11	6'-7' IN B&B	EVERGREEN SPECIES, DEER RESISTANT, GROWS WELL IN SUN OR LIGHT SHADE, ZONE 2 TO 7. CAN REACH 40 TO 60 FT TALL.			
PM	Pseudotsuga menziesii	"DOUGLAS FIR"	6	6'-7' IN B&B	EVERGREEN SPECIES, DEER RESISTANT, GROWS WELL IN FUIL SUN WEIL-DRAINING SOIL, ZONE 4 TO 6. CAN REACH 50 TO 80 FT TALL.			

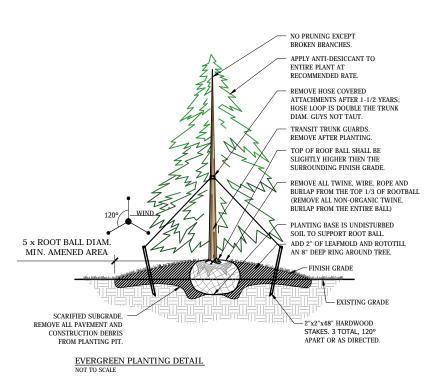
NOTE:

1. ALL LANDSCAPING SHALL BE GUARANTEED BY THE INSTALLER FOR ONE YEAR

2. PRIOR TO PURCHASING OF ANY NEW LANDSCAPING OBTAIN THE TOWNSHIP ENGINEERS APPROVAL FOR TYPES
OF SPECIES INDICATED, NOTIFY THE ARCHITECT OF ANY CHANGES







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	UNION COUNTY	
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ISSUE NO.	DESCRIPTION OF CHANGE	ISSUI

LANDSCAPING PLAN AND DETAILS

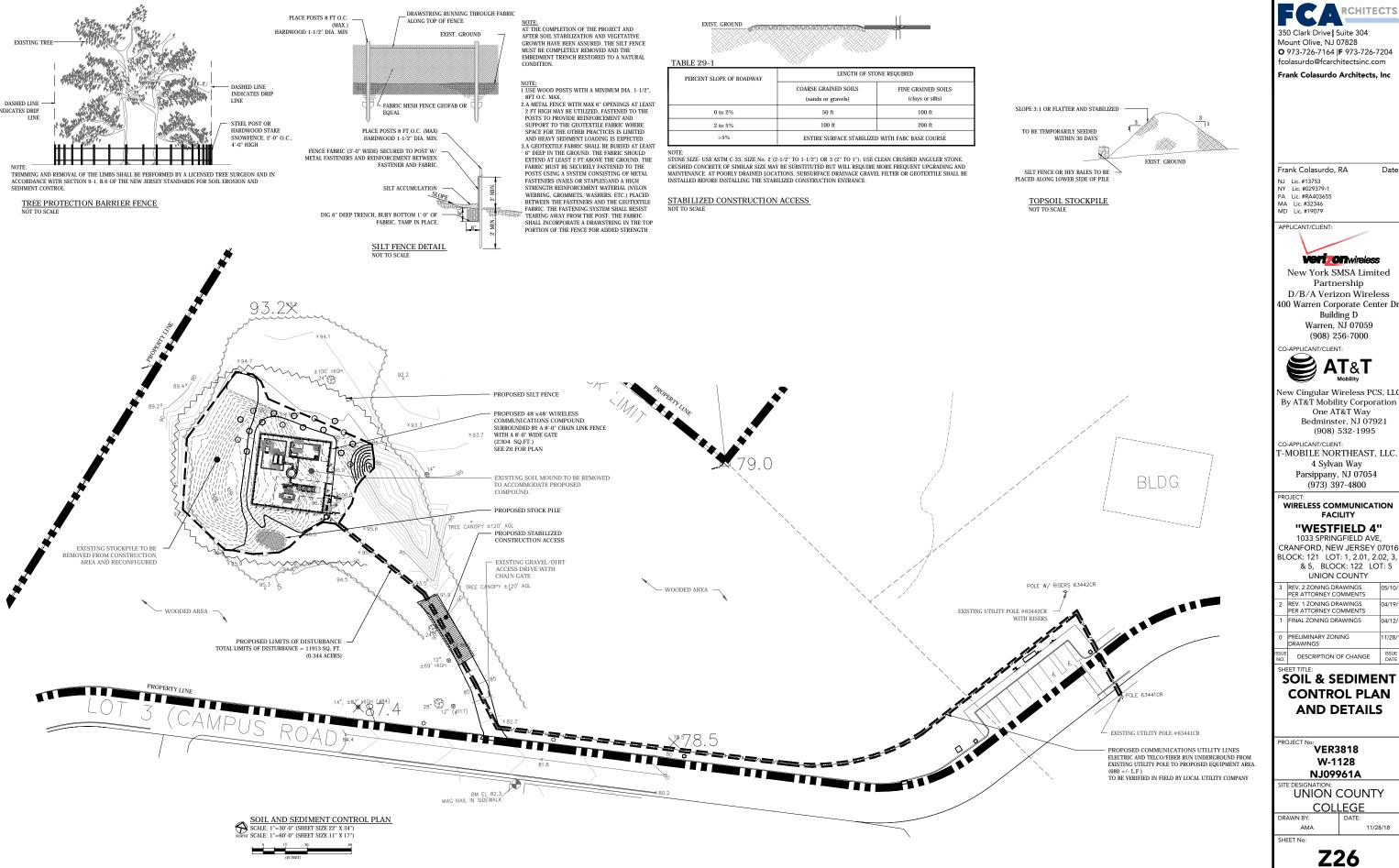
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COLLEGE

ΔΜΔ

SHEET No



O 973-726-7164 |**F** 973-726-7204

D/B/A Verizon Wireless 400 Warren Corporate Center Dr

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WIRELESS COMMUNICATION

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SOIL & SEDIMENT CONTROL PLAN

UNION COUNTY

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ON THIS PLAN SHALL BE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATIONS AND INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED

THE APPLICABLE SOIL CONSERVATION DISTRICT SHALL BE CONTACTED 72 HOURS PRIOR TO THE START OF CONSTRUCTION FOR ANY LAND DISTURBING ACTIVITIES.

WORK DESCRIBED IN THIS NOTE SHALL BE IN ACCORDANCE WITH THE FOLLOWING PROVISIONS OF THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN N.J. (N.J. STATE SOIL CONSERVATION COMMITTEE - 6-14-72

- 2.1-3 GUIDELINES FOR SOIL FROSION AND SEDIMENT CONTROL
- 2.1-3 Guidelines for Soil Erosion and Sediment Con 3.31 STANDARDS FOR STABILIZATION WITH MULCH ONLY 3.61 STANDARDS FOR MAINTAINING VEGETATION 3.21-25 STANDARDS FOR PERMANENT VEGETATIVE COVER

ANY CHANGES TO CERTIFIED SOIL EROSION AND SEDIMENT CONTROLS (S.E.S.C.) PLAN WILL REQUIRE THE SUBMISSION OI REVISED PLANS WHICH MEET ALL CURRENT S.E.S.C. STANDARDS TO THE THE DISTRICT FOR REFORTIFICATION. NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFICATE OS.E.S.C. PLANS HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR SITE PLANS WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OCCUPANCY BY THE

A CERTIFIED COPY OF THESE PLANS SHALL BE KEPT AT THE CONSTRUCTION SITE.

THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL WITH WATER AS NEEDED. CONTRACTOR TO FURNISH WATER AND EQUIPMENT NECESSARY FOR THIS WORK.

STABILIZATION:

TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A GRAVEL PAD OF 1-1/2" TO 2" STONE AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE. SEE DETAIL ON SHEET SCI IN ORDER TO MINIMIZE DAMAGE FROM SOIL EROSION. EACH PORTION OF THE WORK SHALL BE STABILIZED IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION.

ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. MILCH IS TO BE USED AS RECESSARY FOR POTECTION UNTIL SEEDING IS ESTABLISHED. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS SHALL BE MULCHED. IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS, A SUB-BASE COURSE WILL BE APPLIED IN ORDER TO STABLIZE STREETS, ROADS AND DRIVEWAYS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY CRADING AFTER FINAL GRADING, ALL EXPOSED AREAS SHALL BE PERMANENTLY STABLIZED WITHIN 10 DAYS. AT THAT TIME, IF ANY SOIL WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATION GROUND COVER, THEN IT SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS TO RENDER IT SUITABLE FOR PERMANENT VAGING AND SOIL CONDITIONS TO RENDER IT SUITABLE FOR PERMANENT VAGING AND SOIL OND THE SOIL CONDITIONS TO RENDER IT SUITABLE FOR PERMANENT GROUND STABILIZATION. SHOULD THIS PROCEDURE FAIL, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION SHALL BE EMPLOYED.

TOPSOIL:

REQUIRED ON ALL SURFACES TO BE STABILIZED BY SEEDING-6" MINIMUM THICKNESS, pH 5 TO 7, 3% ORGANIC FREE OF ANY SOLIDS LARGER THAN 1".

MULCH: SALT HAY OR SMALL GRAIN STRAW-NOT CHOPPED, 90-115 LB/1000 SF. LIQUID MULCH BINDER: EMULSIFIER ASPHALT SS-1, CSS-1, CMS-2, MS-2, RS-1, CRS-1 OR CRS-2, OR CUTBACK ASPHALT-RAPID CURING RC-70, RC-250 OR RC-800, OR MEDIUM CURING (MC-250 OR MC-800) 0.04 GAL/SY. IN AREAS WHERE SLOPES ARE STEEPER THAN 3 TO 1, THE RATE OF APPLICATION SHALL BE 0.075 GAL/SY.

MULCHING

MULCHING IS REQ. ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER & EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

A.) STRAW OR HAY
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 2 TONS PER UNKOLLED SMALL URAIL STRAW, HAT PREE OF SEEDS, OR SALL HAT TO BE APPLIED AT THE RATE OF THE OZ TUCKY ENGAGE.

(TRACK [70 TO 90 Lbs PER 1,000 SQ FT), EXCEPT THAT WHERE A CRIMPRE IS USED INSTEAD OF LIQUID MULLICH-BINDER (TRACKIFYING OR ADHESIVE AGANT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO PRESENCE

NOT CRIND THE MULCH. HAY MULCH IS NOT RELUMMENDED FOR ESTABLISHING FINE FURE OF URE OF THE OF PRESENCE OF WEED SEED.

APPLICATION, SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ FT SECTIONS AND DISTRIBUTE 70 TO 90 Lbs WITHIN EACH SECTION.

ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSCYS.

1. LIQUID MULCH-BINDERS MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH.

A.) APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH. IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE. B.) USE ONE OF THE FOLLOWING

1) EMILISTETED ASPHALT-(SS-1, CSS-1, CMS-2, MS-2, RS-1, RS-2, CRS-1, AND CRS-2), APPLY 0.04 GAL/SO YD, OR 194 GAL/ACRE ON FLAT AREAS & ON SLOPES LESS THAN 8 FT OR MORE HIGH, USE 0.075 GAL/SQYD. OR 363 GAL/ACRE. THESE MATERIALS MAY BE DIFFICULT TO APPLY UNIFORMLY AND WILL DISCOLOR SURFACES.

2.) ODCANIC AND VECETARI E RASED RINDEDS NATURALLY OCCURDING. DOWNER RASED HYDROPHILIC MATERIALS 2.) ORGANIC AND VEGETABLE BASED BINDERS-NATURALLY OCCURRING, POWDER BASED HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN PAPILED TO MULICH UNDER SATISFACTORY CURRO CONDITION WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER OF ANCHOR MULICH MATERIALS. MANY OF NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE.

3.) SYNTHETIC BINDERS-HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND DIVINOR APPLICATION TO MULCI, DRYING AND CURING SHALL NO LONGER BE SOLDIBLE OR DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.

B.) WOOD-FIBER OR PAPER-FIBER MULCH
SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS/ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THE MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

SEQUENCE OF CONSTRUCTION

WEEK 1:
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN.
- CONSTRUCT WHEEL CLEANING PAD FOR VEHICLES AS SHOWN ON PLAN.

- ROUGH GRADE SITE AND PROTECT STORM INLETS WITH INLET PROTECTION UNTIL CONSTRUCTION IS COMPLETE.

WEEK 3 - 6: CONSTRUCT FACILITY/UTILITIES. - MAINTAIN ALL SOIL EROSION CONTROL FACILITIES UNTIL CONSTRUCTION IS COMPLETE.

WEEK 7 - FINAL GRADE, SEEDING AND PLANTING WEEK 8

6:
- REMOVE SOIL AND SEDIMENT CONTROL DEVICES EXCEPT SOIL STABILITY MEASURES

SOIL CONSERVATION DISTRICT NOTES

1. THE SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY LAND

ALL WORK TO BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL OF ALI SOIL FROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL

3. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

4. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RECERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.

5. IN THE N.J.S.A. 4:24-39 ET. SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLANS FOR REGISION CONTROL HAVE BEEN COMPILED WITH FOR PERMANENT MEASURES, ALL SITE WORK AND ALL WORK APOUND INDIVIDUAL LOTS IN SURDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT SENILING. A DEPORT OF COMPUTED WITH ANY THE MINISTRATIC PROPERTY OF THE DISTRICT SENILING. A DEPORT OF COMPUTED WITH A STANDARD SAME AND ALL WORK APOUND INDIVIDUAL LOTS IN SURDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT SENILING. A DEPORT OF COMPUTED WITH ANY THE MINISTRATIC PROPERTY OF THE DISTRICT.

ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
6. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN THIRTY (30) DAYS, AND NOT SUBJECT TO

CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL. AT A RATE OF 2 TO 2 1/2 TONS PER ACRE. ACCORDING TO STATE STANDARD FOR STABILIZATION WITH MULCH IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING. ALL CRITICAL AREAS SURJECT TO EROSION (LE STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW

STEEP SLOPES AND ROADWAY EMBANKMENTS; WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT RATE OF 1/2 TO 2 TONS PER ACER, ACCORDING TO STATE STANDARDS.

8. A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY POLLOWING ROUGH GRADING AND INSTRALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED WITHIN HETERE (15) DAYS OF THE PRELIMINARY GRADING.

9. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (1.E. SLOPES GREATER THAN 3:1).

10. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE AVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION SOFTMAN STORED FOR INCH TO TWO INCH (1" - 2").

**INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION SOFTMAN SOFT THE STANDARD FOR STABILIZED CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE AVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE AVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE AVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE AVED.

INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION ENTRANCE CONSTITUENT OF ONE INCH TO TWO INCH (1"-2") STONE FOR A MINIMUM LENGTH OF TEN FEET (10') EQUAL TO THE LOT ENTRANCE WIDTH. ALL OTHER ACCESS POINTS

SHALL BE BLOCKED OFF.
11. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF -WAY WILL BE REMOVED IMMEDIATELY.

12. PERMANENT VEGETATION TO BE SEEDED OR SEEDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL

GRADING.

13. AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED. ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANSET GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.

14. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING, SOILS, ANY SOIL HAVING, A PH OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVIN A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUSS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.

15. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.

16. UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEWATERING.

SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED STANDARD FOR

18. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. CERTIFICATION OF A NEW SOIL EROSION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE ACTIVITIES IF AN AREA GREATER THAN 5.000 SQUARE FEET IS DISTURBED.

19. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT ONTROL NOTE #6. 20. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY FROSION OR SEDIMENTATION THAT MAY OCCUR BELOW

STORMWATER OUTFALLS OR OFF SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT

STABILIZATION WITH MULCH ONLY

- DEFINITION: STABILIZING EXPOSED SOILS WITH NON-VEGETATIVE MATERIALS.
- PURPOSE: TO PROTECT EXPOSED SOIL SURFACES FROM EROSION DAMAGE AND TO REDUCE

DFFSITE ENVIRONMENTAL DAMAGE. - WATER QUALITY ENHANCEMENT: PROVIDES TEMPORARYMECHANICAL PROTECTION AGAINST WIND OR RAINFALL INDUCED

SOIL EROSION UNTIL PERMANENT VEGETATIVE COVER MAY BE ESTABLISHED.
- WHERE APPLISCABLE: THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO EROSION, WHERE THE SEASON AND OTHER CONDITIONS MAY NOT BE SUITABLE FOR GROWING AN EROSION-RESISTANT COVER OR WHERE STABILIZATION IS NEEDED FOR A SHORT PERIOD UNTIL MORE SUITABLE PROTECTION CAN BE APPLIED.

METHODS AND MATERIALS:

1. SITE PREPARATION

A GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING

STANDARDS FOR LAND GRADING.
R. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION

2. PROTECTIVE MATERIALS:

A. UNROTTED SMALL-GRAIN STRAW, OR SALT HAY AT 2.0 TO 2.5 TONS/ACRE IS SPREAD UNIFORMLY AT 90 TO 115 Lbs/1,00 SQ FT AND ANCHORED WITH MUCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN, OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.

B. ASPHALT EMULSION IS RECOMMENDED AT THE RATE OF 600 TO 1.200 CALLONS/ACRE. THIS IS SUITABLE FOR A LIMITED PERIOD OF TIME WHERE TRAVEL BY PEOPLE, ANIMALS, OR MACHINES IS NOT A PROBLEM.

C. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USSED UNDER SUITABLE CONDITIONS AS RECOMMENDED BY THE MANIEACTIBED.

D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 Lbs/ACRE (OR ACCORDING TO THE MANUFACTURER'S

REQUIREMENTS) MAY BE APPLIED BY HYDROSEEDER.
E. MULCH NETTING, SUCH AS PAPER JUTE, EXCELSIOR, COTTON, OR PLASTIC, MAY BE USED.

F. WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2" MAY BE USED. WOODCHIPS WILL NOT BE USED ON AREAS WHERE FLOWING WATER COULD WASH THEM INTO AN INLET AND PLUG IT.

WHERE FLOWING WATER COOLD WASH THEM INTO AN TIME! AND PLOG II.

C. CRAUFT CRICKERD STONE OR STAG AT THE RATE OF 9 CHIRIC VARDS / 1 ON SO. FT APPLIED UNIFORMLY TO A MIN. DEPTH. 3" MAY RE USED. SIZE 2 OR 3 (ASTM C.33) IS RECOMMENDED.

STABILIZATION WITH MULCH ONLY CONT.

3. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON TS SUZE OF THE AREA AND STEEPENESS OF SLOPES.

A. PEG AND TWINE: DRIVE 8 TO 10" WOODEN PEGS TO WITHIN 2 TO 3" OF THE SOIL SURFACE EVERY 4 FEET IN ALL

DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH 2

B. MULCH NETTING: STAPLE PAPER, COTTON, OR PLASTIC NETTINGS OVER MULCH. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED. NETTING IS USUALLY AVAILABLE IN ROLLS 4 FEET WIDE AND UP TO 300 FEET LONG.

C. CRIMPER MULCH ANCHORING COULTER TOOL: A TRACTOR-DRAWN IMPLEMENT ESPECIALLY DESIGNED TO PUNCH AND

ANCHOR MULCH INTO THE SOIL SURFACE. THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL, BUT ITS USE IS LIMITED TO THOSE SLOPES UPON WHICH THE TRACTOR CAN OPERATE SAFELY. SOIL PENETRATION SHOULD BE ABOUT 3 TO 4". ON SLOPING LAND. THE OPERATION SHOULD BE ON THE CONTOUR.

D. LIQUID MULCH-BINDERS APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH. IN VALLEYS, AND AT CRESTS OF BANKS. REMAINDER OF AREA SHOULD BE UNIFORM IN APPEARANCE 2. USE ONE OF THE FOLLOWING

A FMIII SIFIFD ASPHALT. (SS.1 CSS.1 CMS.2 MS.2 RS.1 RS.2 CRS.1 AND CRS.2) APPLY 0.04 CAL/SO VD OR 194

A. EMILISTEED ASPHALT. (SS.-1, CSS.-1, CMS.-2, MS-2, RS-1, RS-2, CRS-1, AND CRS.-2), APPLY 0.04 GAL/SQ, YD. OR 194 GAL/ACRE ON FLAT AREAS AND ON SLOPES LESS THAN 8 FEET OR MORE HIGH, USE 0.075 GAL/SQ, YD. OR 363 GAL/ACRE. THISSE MATERIALS MAY BE DIFFICULT TO APPLY UNFORMLY AND WILL DISCOLOR SURFECES.

B. ORGANIC AND VEGETABLE BASED BINDERS-NATURALLY OCCURRING, POWDER BASED HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMLUTES A GEL AND WHEN APPLIED TO MULICH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYDIOTOXIC EFFECT OF IMPEDE ROWTH OF TURFGRASS. USE AT RATES AND WATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER.

C. SYNTHETIC BINDERS-HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

DUST CONTROL

THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL WITH WATER AS NEEDED

TEMPORARY SEEDING

WATER QUALITY ENHANCEMENT: PROVIDES TEMPORARY PROTECTION AGAINST THE IMPACT OF WIND AND RAIN SLOWS THE OVER LAND MOVEMENT OF STORM WATER RUNOFF, INCREASES INFILTRATION AND RETAINS SOIL AND NUTRIENTS ON SITE, PROT STREAMS OR OTHER STORM WATER CONVEYANCES.

WHERE APPLICABLE: ON EXPOSED SOILS THAT HAVE THE POTENTIAL FOR CAUSING OFF-SITE ENVIRONMENTAL DAMAGE.

SITE PREPARATION:
 A.) GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND

ROLLH APPLIATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR DANG (RADDING, (PG 19-1)

B) INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS IT THROUGH 42.

C) IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BEE SCARFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, BRIGATION SYSTEMS, ETC.).

A.) APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS COOPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROCEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIBERTONE AT THE RATE OF 2 TONS/ACRE UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARI FOR MEASURING THE ABILITY OF ILMING MATERIALS TO NUTRICALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES. TABLE BELOW IS A CENERAL GUIDELINE FOR LIMESTONE APPLICATION.

TABLE 7-1

LIMESTONE APPLICATION RATE BY SOIL TEXTURE					
SOIL TEXTURE	TONS/ACRE	LBS./1000 SQ. FT.			
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135			
SANDY LOAM, LOAM, SILT LOAM	2	90			
LOAMY SAND, SAND	1	45			

R) WORK LINE AND EEPTHIZED INTO THE SOIL AS NEADLY AS DEACTICAL TO A DEDTH OF A" WITH A DISC. SEDING TOOTH ARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DIS ONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED. C.) INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED. THE AREA MUST BE RETILLED IN

O.) SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING

TABLE 7-2

SEED SELECTIONS	SEEDING RATE (pounds)		OPTIMUM SEEDING DATE Based on Plant Hardiness Zone			OPTIMUM SEED
SEED SELECTIONS	Per Acre	Per 1000 Sq. Ft.	ZONE 5b, 6b	ZONE 6b	ZONE 7a, b	DEPTH (1) (inches)
COOL SEASON GRASSES						
1 Perennial ryegrass	100	1.0	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15	0.5

() SEEDING RATE FOR WARM SEASON GRASS, SELECTION 5-7 SHALL BE ADJUSTED TO REFLECT THE AMOUNT OF PURE LINE SEED [F15] AS DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.

() MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE RERICATED. 3 PLANT HARDINESS ZONE

WICE THE DEPTH FOR SANDY SOILS

NAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEE SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4" TO 1/2", BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4" DEEPER ON COARSE TEXTURED SOIL C.) HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK AR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBER MULCH MAY BE APPLIED WITH A PREPARED SELDRED, WILLIA STRAIL VIA BE INCLUDED IN THE FAR WITH SEELE, SHOW IT FIREM WILL AND HEAT HEAT HAVE THE PROPERTY OF THE SELD OF T

PERMANENT SEEDING

PURPOSE: TO PERMANENTLY STABILIZE THE SOIL AND REDUCE DAMAGE FROM WIND AND WATER EROSION UNTIL PERMANEN

STABLIZATION IS ACCOMPLISHED.

WATER QUALITY ENHANCEMENT: PROVIDES TEMPORARY PROTECTION AGAINST THE IMPACT OF WIND AND RAIN SLOWS THE OVER LAND MOVEMENT OF STORM WATER RUNOFF, INCREASES INFILTRATION AND RETAINS SOIL AND NUTRIENTS ON SITI PROTECTING STREAMS OR OTHER STORM WATER CONVEYANCES

WHERE APPLICABLE: ON EXPOSED SOILS THAT HAVE THE POTENTIAL FOR CAUSING OFF-SITE ENVIRONMENTAL DAMAGE.

. SITE PREPARATION:

SEEDING, WILLH APPLICATION, AND MULTH ANCHORING, ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING, (PG 19-1)

B.) INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CAINANES STRABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

C.) IMMEDIATELY PRIOR TO SEEDING AND TOP SOIL APPLICATION, THE SURFACE SHOULD BE SCARIFIED 6° TO 12° WHERE THERE HAS BEEN SOIL COMPACTION, THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRICATION SYSTEMS, ETC.).

2. SEEDBED PREPARATION:

2. SELDBED PREPARATION:
A.) APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS
COOPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES.
FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR
EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE IN ACCORDANCE WITH TABLE 4-1 AND THE RESULTS OF SOIL TESTING, CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES. TABLE 4-1 BELOW IS A GENERAL GUIDELINE FOR LIMESTONE APPLICATION.

TABLE 4-1 LIMESTONE APPLICATION RATE BY SOIL TEXTURE			
SOIL TEXTURE	TONS/ACRE	LBS./1000 SQ. FT.	
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135	
SANDY LOAM, LOAM, SILT LOAM	2	90	
LOAMY SAND, SAND	1	45	

B.) WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4" WITH A DISC, SPRINGTOOTH

HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON GENERAL CONTOUR.
CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
C) IMMEDIATELY PRIOR TO SEEDING. THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL
COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES,
DEBIGLATION, SURTIME TO THE STATEMENT OF THE STATEME

COMPACTION. THIS CANAL CONTROLL OF THE PROPERTY OF THE PROPERT

3. SEEDING

A.) SELECT A MIXTURE FROM TABLE 4-3 OR USE MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE EXTENTION OR NATURAL RESOURCES CONSERVATION SERVICE WHICH IS APPROVED BY THE SOIL CONSERVATION DISTRICT. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATI MORE THAN 12 MONTHS OLD UNLESS RETESTED.

MORE THAN 12 MONTHS OLD UNLESS RETESTED.

1. SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VECETATION. UP TO 50% REDUCTION IN RATES MAY BE USED WHEN PERMANENT VECETATION IS TO SETABLISHED PRIOR TO REPORT OF COMPLIANCE INSPECTION, THESE RATES APPLY TO ALL METHODS OF SEEDING, ESTABLISHING PERMANENT VECETATION HEADS AND ASSESSED OF THE SEEDING, ESTABLISHING PERMANENT VECETATION MEANS 80% VECETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND

MOVED ONCE.

2. WARM SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALLY
85 DEG F AND ABOVE SEE TABLE 4-3. MIXTURES 1 TO 7. PLANTING RATES FOR WARM SEASON GRASSES SHALL BE THE AMOUNT OF
PURE LIVE SEED (PLS) AS DETERMINED BY GERMANTION TESTING RESULTS.
3. COOL SEASON MIXTURES ARE GRASSES AND LECUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 8 DEG. F.
MAYY GRASSES BECOME ACTIVE AT 65 DEG. F. SEE TABLE 3. MIXTURES 3-20. ADJUSTMENT OF PLANTING BATES TO COMPENSATE

BAND UNKNOCH BEUCHT AUS 12 HE 19 DE NOT REQUIRED FOR COOL SEASON GRASSES.

B. CONVENTIONAL SEEDING IS PERFORMED BY APPLITHING SEED UNIFORMLY BY HEAD CYCLONE (CETTIFUGAL) SEEDER, DROP SEED

INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4" TO 1/2", BY RAKING OR INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4" TO 1/2", BY RAKING OR DRAGGING, DEPTH OF 5EEP HACKENSTAM SEEDBED BY THE SEED SEED AND SEEDBED AND SEEDBED AS BROADCAST SEEDING. METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN ACITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED. WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. HYDROSEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL POOR SEED TO SOIL CONTACT OCCURS REPUICHING SEED GEBMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTELLCTED WITH ROSKS. STUMPS, ETC.

D.) AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE

CAPILLARITY AND IMPROVE SEEDLING EMERGENCE. THIS IS PREFERRED METHOD, WHEN PERFORMED ON THE CONT EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED

TABLE 4-2				
PERM	MANENT STABILIZATION MIX	TURES FOR VARIOUS USES		
	PLANTING MIXTURES BY SOIL DRAINAGE CLASS			
APPLICATION	EXCESSIVELY DRAINED	WELL TO MODERATELY WELL DRAINED	SOMEWHAT POORLY TO POORLY DRAINED	
RESIDENTIAL/ COMMERCIAL LOTS	12, 14, 17	12, 14, 15, 16, 17	18	
POND AND CHANNEL BANKS, DIKES, BERMS AND DAMS	2, 7, 8, 12	7, 8, 9, 10, 11, 17	2, 10, 18, 19	
DRAINAGE DITCHES, SWALES DETENTION BASINS	2, 11, 13	2, 9, 11, 13, 14, 19	2, 10, 18, 19	
FILTER STRIPS	14	13, 14	13, 14	
GRASSES WATERWAY, SPILLWAYS	2, 3, 11, 12, 14	8, 9, 11, 12, 13, 14	2, 11, 13, 14	
RECREATION AREAS ATHLETIC FIELDS	7, 14, 17, 20	14, 15, 16, 17, 20	18	
SPECIAL PROBLES SITES STEEP SLOPES AND BANKS, ROADSITDES, BORROW AREAS	2, 3, 6, 8	2, 3, 7, 9, 10, 11, 12, 17, 20	2, 10	
SAND AND GRAVEL PITS, SANITARY LANDFILLS	1, 2, 3, 4, 5, 6, 21	1, 2, 3, 4, 5, 6, 10, 17, 20	1, 2, 3, 4, 5, 6, 21	
DREDGED MATERIALS, SPOILBANKS, BORROW AREAS	2, 3, 6, 20	2, 3, 6, 11	2, 10	
STEAMBANKS AND SHORELINES	2, 10, 22, 23a	2, 10, 21b, 22, 23a, 23b	2, 10, 21a, 23a,b,c,d	
UTILITY RIGHTS-OF-WAY	3. 9. 20	3. 9	10, 11, 19	

PERMANENT VEGETATIVE MIXTURES, PLANTING RATES AND PLANTING DATES SEEDING O= Optimal Planting Period A= Acceptable Planting Period REMARKS RATE PLANT HARDINESS ZONES ZONE 5b,6a ZONE 6b ZONE 7a,7b COOL SEASON SEED MIXTURES Turf-Type Tall fescue (Blond of 2 cultivars) | 150 | 3.5 | O | A | O | O | A | O | O | A | O | C-D | Use in managed filter strip for

MAINTENANCE LEVEL:

A. INTENSIVE MOVING (2-4 DAYS), FERTILIZATION, LIME, PEST CONTROL AND IRRIGATION (EXAMPLES-HIGH MAINTENANCE LAWNS, COMMERCIAL AND RECREATION AREAS, PUBLIC FACILITIES).

B. FREQUENT MOWING (4-7 DAYS), OCCASIONAL FERTILIZATION, LIME AND WEED CONTROL (EXAMPLES-HOME LAWNS, COMMERCIAL SITIES, SCHOOL SITIES).

COMMERCIAL SITIES, SCHOOL SITIES).

C. PERIODIC MOWING (7-1 DAYS), OCCASIONAL FERTILIZATION AND LIME (EXAMPLES-HOME LAWNS AND PARKS).

D. INFREQUENT OR NO MOWING, FERTILIZATION AND LIME THE FIRST YEAR OF ESTABLISHMENT (EXAMPLES-ROADSIDES, DECREATION AND LORGE SUBJECTS.

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Frank Colasurdo Architects, Inc

Frank Colasurdo RA

Date

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NY Lic. #029379-1 PA Lic. #RA403655

MA Lic. #32346 MD Lic. #19079 APPLICANT/CLIENT

Veri onwireless New York SMSA Limited

Partnership D/B/A Verizon Wireless 400 Warren Corporate Center Dr Building D

Warren, NJ 07059

(908) 256-7000 CO-APPLICANT/CLIENT



New Cingular Wireless PCS, LLC By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995

CO ADDITIONALITICI IENT Γ-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054

(973) 397-4800

WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, & 5, BLOCK: 122 LOT: 5

	UNION COUNTY			
	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1		
	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1		
1	FINAL ZONING DRAWINGS	04/12/1		
	PRELIMINARY ZONING DRAWINGS	11/28/1		
ISSUE	DESCRIPTION OF CHANGE	ISSUE		

SOIL & SEDIMENT NOTES

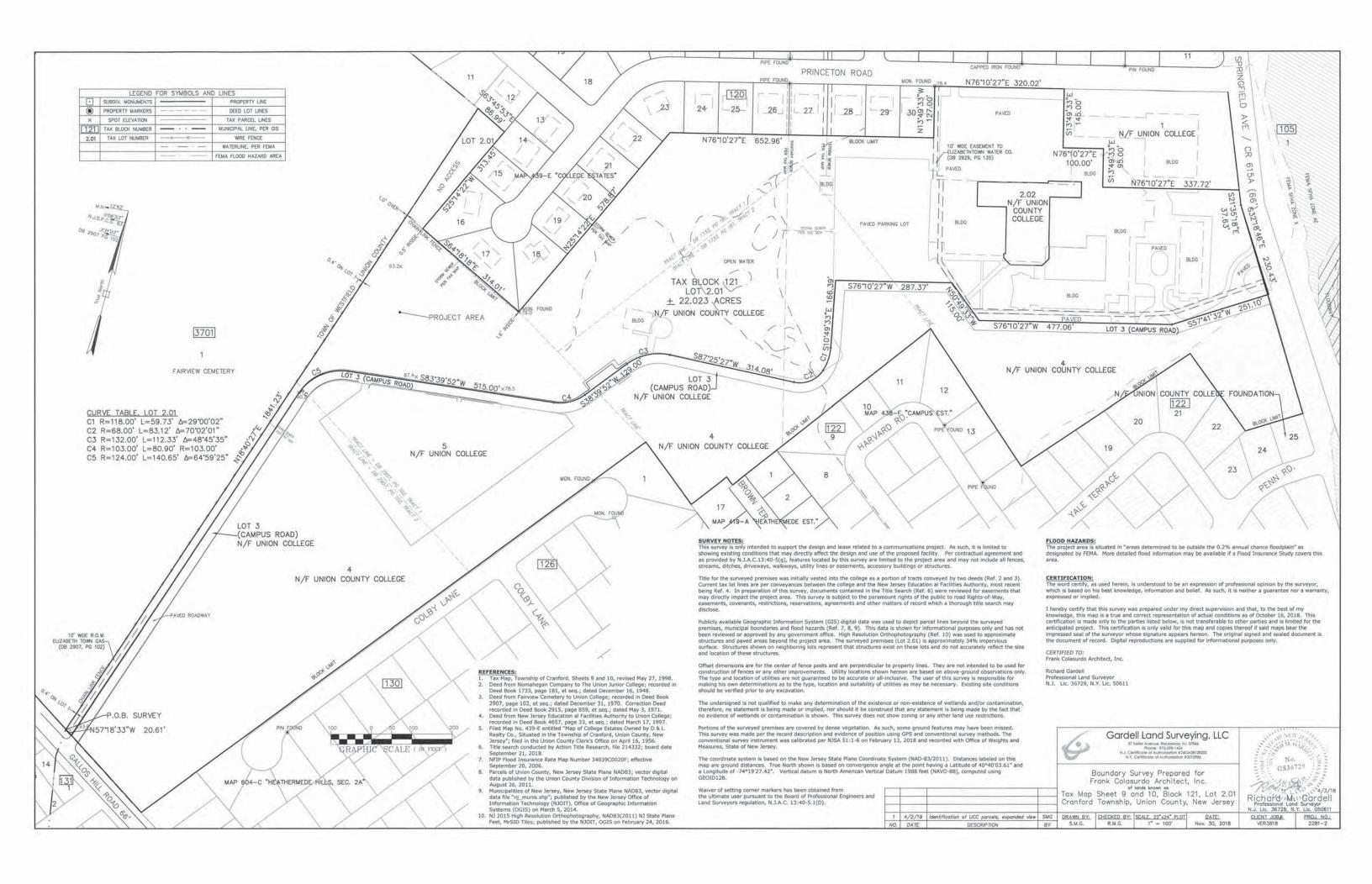
PROJECT No: VER3818 W-1128

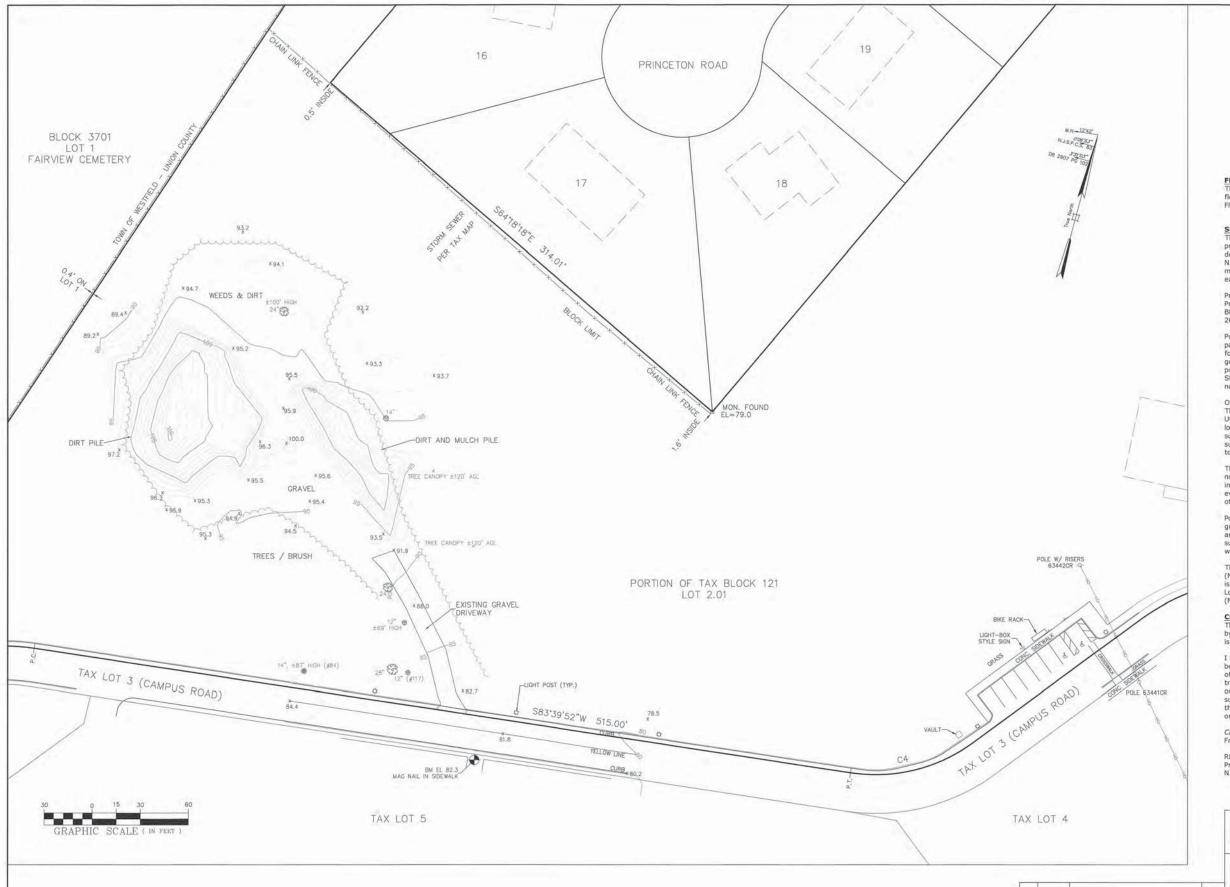
NJ09961A

UNION COUNTY COLLEGE

ΔΜΔ SHEET No.

DRAWN BY





	LEGEND	FOR SYMBOLS A	ND LINES
	SUBDIV, MONUMENT		PROPERTY LINE
0	BENCH MARK		TAX PARCEL LINES
-0-	UTILITY POLE	xx	WIRE FENCE
\$	LAMP POST		BUILDING, APPROX.
×	SPOT ELEVATION		
63	DECIDUOUS TREE		

FLOOD HAZARDS:

The project area is situated in "areas determined to be outside the 0.2% annual chance floodplain" as designated by FEMA. More detailed flood information may be available if a Flood Insurance Study covers this area.

SURVEY NOTES:
This survey is only intended to support the design and lease related to a communications project. As such, it is limited to showing existing conditions that may directly affect the design and use of the proposed facility. Per contractual agreement and as provided by N.J.A.C.13:40-5(g), features located by this survey are limited to the project area and may not include all fences, streams, ditches, driveways, walkways, utility lines or easements, accessory buildings or structures.

Property lines of Lot 2.01 were established by this office entitled "Boundary Survey Prepared for Frank Colasurdo Architect, Inc. of lands known as Tax Map Sheet 9 and 10, Block 121, Lot 2.01, Cranford Township, Union County, New Jersey" dated November 30,

Publicly available Geographic Information System (GIS) digital data was used to depict parcel lines beyond the surveyed premises and municipal boundaries. This data is shown for informational purposes only and has not been reviewed or approved by any government office. High Resolution Orthophotography (Ref. 10) was used to approximate portions of tree lines, along with structures and paved areas beyond the project area. Structures shown on neighboring lots represent that structures exist on these lots and do not accurately reflect the size and location of these structures.

Offset dimensions are for the center of fence posts and are perpendicular to property lines. They are not intended to be used for construction of fences or any other improvements. Utility locations shown hereon are based on above-ground observations only. The type and location of utilities are not guaranteed to be accurate or all-inclusive. The user of this survey is responsible for making his own determinations as to the type, location and suitability of utilities as may be necessary. Existing site conditions should be verified prior to any excavation.

The undersigned is not qualified to make any determination of the existence or non-existence of wetlands and/or contamination, therefore, no statement is being made or implied, nor should it be construed that any statement is being made by the fact that no evidence of wetlands or contamination is shown. This survey does not show zoning or any

Portions of the surveyed premises are covered by dense vegetation. As such, some ground features may have been missed. This survey was made per the record description and evidence of position using GPS and conventional survey methods. The conventional survey instrument was calibrated per NJSA 51:1-6 on February 13, 2018 and recorded with Office of Weights and Measures, State of New Jersey.

The coordinate system is based on the New Jersey State Plane Coordinate System (NAD-83/2011). Distances labeled on this map are ground distances. True North shown is based on convergence angle at the point having a Latitude of 40°40'03.61° and a Longitude of 7-49'19'2-42". Vertical datum is North American Vertical Datum 1988 feet (NAVD-88), computed using GEOID12B.

CERTIFICATION:

The word certify, as used herein, is understood to be an expression of professional opinion by the surveyor, which is based on his best knowledge, information and belief. As such, it is neither a guarantee nor a warranty, expressed or implied.

I hereby certify that this survey was prepared under my direct supervision and that, to the best of my knowledge, this map is a true and correct representation of actual conditions as of October 16, 2018. This certification is made only to the parties listed below, is not transferable to other parties and is limited for the anticipated project. This certification is only valid for this map and copies thereof if said maps bear the impressed seal of the surveyor whose signature appears hereon. The original signed and sealed document is the document of record. Digital reproductions are supplied for informational purposes

CERTIFIED TO: Frank Colasurdo Architect, Inc.

Richard Gardell Professional Land Surveyor N.J. Lic. 36729, N.Y. Lic. 50611



Topographic Survey Prepared for Frank Colasurdo Architect, Inc.
for a portino of lands known as
Tax Map Sheet 9 and 10, Block 121, Lot 2.01

Sedi M. G. No. GS36729 Richard M. Gardell Professional Land Surveyor N.J. Lic. 36729, N.Y. Lic. 050611 CLIENT JOB#: VER3818

Cranford Township, Union County, New Jersey | SMG | DRAWN BY: | CHECKED BY: | SCALE, 22"x24" PLOT | DATE: | SM.G. | R.M.G. | 1" = 30", C.I. = 1" | Nov. 30, 2018 Utility poles and parking area



121	TAX BLOCK NUMBER		PROPERTY LINE
2.01	TAX LOT NUMBER		200 FT RADIUS
		-	TAX PARCEL LINES
		-	TAX BLOCK LIMITS
			MUNICIPAL LINE

This plan is a compilation of publicly available digital information. The data was not validated in any way and may not reflect current site conditions.

REFERENCES:

- 1. Tax Map, Township of Cranford.
- New Jersey 2015 High Resolution Orthophotography, NAD83(2011) NJ State Plane Feet, MrSID Tiles; published by the NJ Office of Information Technology (NJOIT), Office of Geographic Information Systems (OGIS) on February 24, 2016.
- Parcels of Union County, New Jersey State Plane NAD83; vector digital data published by the Union County Division of Information Technology on August 26, 2011.
- Municipalities of New Jersey, New Jersey State Plane NAD83, vector digital data file "nj_munis.shp"; published by the New Jersey Office of Information Technology (NJOIT), Office of Geographic Information Systems (OGIS), March 3, 2014.



200 Foot Radius Map for

				(ty College & UCC F Cranford Township n County, New Jers	
NO DA	DATE	DATE DESCRIPTION	BY.	DATE: Morch 26, 2019	SCALE: 1"= 150 ft	FILE: 2281-1