

June 12, 2018

Via Federal Express

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Docket No. 472 – Application of Cellco Partnership d/b/a Verizon Wireless for a Certificate of Environmental Compatibility and Public Need for the Construction, Maintenance and Operation of a Wireless Telecommunications Facility Located at 541 Broadbridge Road, Bridgeport, Connecticut**

Dear Ms. Bachman:

On May 11, 2018, the Council approved the Development and Management (“D&M”) Plan for the tower site at 541 Broadbridge Road in Bridgeport. I write now, on behalf of Cellco Partnership d/b/a Verizon Wireless (“Cellco”) seeking staff approval for a modification to the approved tower foundation design.

In an effort to reduce the potential impact of construction activity on neighbors and to control costs associated with this project, Cellco is seeking approval of a modified tower foundation design; eliminating the caisson foundation; and installing a 12’ x 24’ pad and pier foundation. The property owner has agreed to the modified foundation design and the expansion of Cellco’s leased area at the subject parcel. That portion of the concrete pad foundation, extending beyond the limits of the approved 8’ x 20’ facility compound, will be installed underground.

In support of this proposed foundation modification, enclosed please find fifteen (15) sets of revised D&M Plans showing the proposed 12’ x 24’ underground tower foundation (Plan Sheet C-2) and new tower foundation design drawings and calculations prepared by Boris Fayman, Professional Engineer with Engineered Endeavors.

18033487-v1

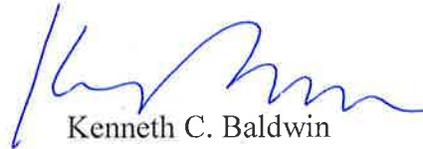
Melanie A. Bachman, Esq.

June 12, 2018

Page 2

If you have any questions or need any additional information regarding the tower foundation modifications please do not hesitate to contact me.

Sincerely,



Kenneth C. Baldwin

KCB/kmd

Enclosures

Copy to:

Joseph P. Ganim, Mayor, City of Bridgeport

Laura R. Hoydick, Mayor, Town of Stratford

Vicki A. Tesoro, First Selectman, Town of Trumbull

Andrew Candiello, Verizon Wireless (*via electronic mail*)

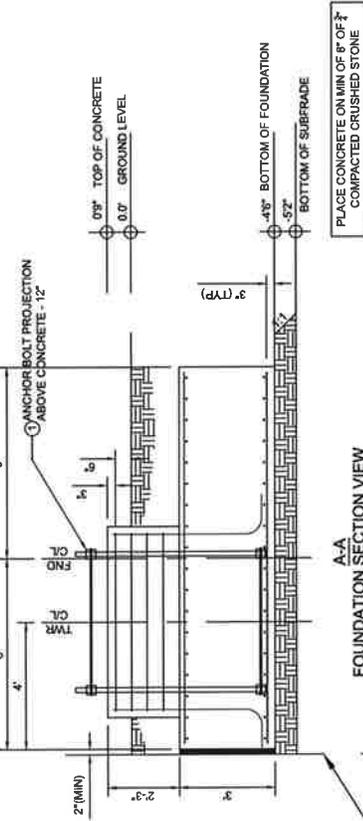
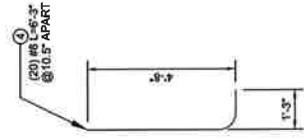
Douglas J. Roberts, AIA (*via electronic mail*)

Aleksey Tyurin, Structure Consulting Group (*via electronic mail*)

Chuck Webberly, Structure Consulting Group (*via electronic mail*)

**TOTAL BASE REACTIONS
(Factored)**

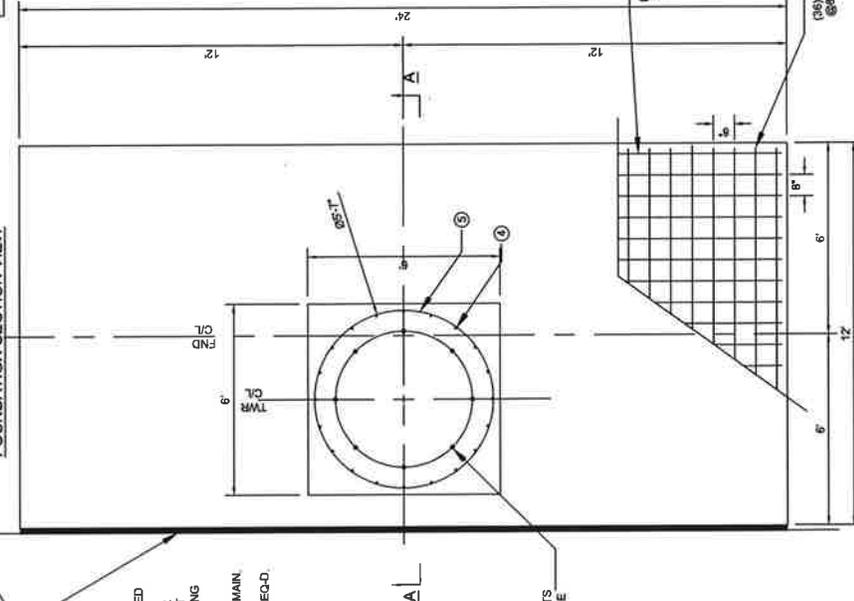
TOTAL OVERT. MOM., k-ft	615.0
TOTAL SHEAR, kips	11.9
VERTICAL, kips	15.8



PLACE CONCRETE ON MIN. OF #4 OR #7 COMPACTED CRUSHED STONE

**A-A
FOUNDATION SECTION VIEW**

- BORDER LINE OF THE EXISTING FOUNDATION / BASEMENT WALL (TYP)
- MAINTAIN 2" OF INSULATION (MIN)
- TOWER FOUNDATION SHALL NOT BE INSTALLED ABOVE THE BUILDING FOUNDATION. IF THE FOUNDATION IS INSTALLED ABOVE THE BUILDING FOUNDATION, THE TOWER END AS SHOWN ON THIS DRAWING, THEN THE TOWER FOUNDATION SHALL BE EXTENDED AT OR BELOW THE LEVEL OF THE BUILDING FOUNDATION.
- OVERALL SIZE OF THE MAT SHALL REMAIN. VERTICAL REINFORCEMENT OF THE PEDESTAL SHALL BE EXTENDED AS REQ'D.



(1) 3/4"Ø ANCHOR BOLTS ON A 51 1/4" BOLT CIRCLE

MATERIAL LIST

ITEM	QTY.	LENGTH	DESCRIPTION
1	8	6'-0"	1 3/4"Øx6'-0" (A615, F5, A5, WISH.H.N., (2) (TYP))
2	36	23'-0"	#4 (ASTM A615-CR.60) BAR
3	72	11'-0"	#4 (ASTM A615-CR.60) BAR
4	20	6'-3"	#4 (ASTM A615-CR.60) BAR
5	4	18'-0"	#4 (ASTM A615-CR.60) BAR

REINFORCEMENT, LBS	4850	A615 GRADE 60
CONCRETE, CUB. YD.	35.0	4000 psi Type II cement

GENERAL NOTES:

- FOUNDATION DESIGN IS BASED ON THE FOLLOWING: SEE USBR 16260. SOIL REPORT BY HUDSON DESIGN GROUP, DATED: 1/09/2017.
- FOUNDATION EMBEDMENT IS SHOWN FROM THE GROUND LEVEL AT THE TIME OF SOIL INVESTIGATION AS DEPICTED IN THE SOIL REPORT. SHOULD THE ACTUAL SOIL CONDITIONS DIFFER FROM THOSE IN THE REPORT, THE GEOTECHNICAL ENGINEER AND FOUNDATION DESIGNER SHOULD BE NOTIFIED IN ORDER TO RE-EVALUATE THE FOUNDATION DESIGN.
- SOIL REPORT SHOULD BE CONSULTED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH IRC 2015 AND CT BC.
- SOIL:
 - VERIFY FOUNDATION EXCAVATION SHALL BE INSPECTED PRIOR TO INSTALLATION OF REINFORCEMENT.
 - VERIFY DEPTH AND DIAMETER OF THE EXCAVATION.
 - VERIFY ACTUAL SOIL CONDITIONS AGAINST THE GEOTECHNICAL REPORT.
- REINFORCING STEEL:
 - VERIFY GRADE, LENGTH, DIAMETER, AND QUANTITY OF REBARS AND COMPLIANCE WITH THE DRAWINGS.
 - VERIFY GRADE, LENGTH, DIAMETER, AND QUANTITY OF ANCHOR BOLTS AND BOLT PATTERN ON THE TEMPLATES.
- CONCRETE:
 - VERIFY STRENGTH, SLUMP, AIR, TEMPERATURE OF CONCRETE, AND DESIGN MIX.
- REINFORCING STEEL:
 - REINFORCING STEEL SHALL CONFORM TO ASTM A615-07 F-60 IN BARS AND SHALL BE WELDED USING STEEL WIRE WELDING IS NOT PERMITTED.
 - MINIMUM LAP LENGTH SHALL BE 1.33 TIMES THE BAR DIAMETER.
 - MINIMUM LAP LENGTH FOR LONGITUDINAL BARS: NO. 6 BARS AND SMALLER: 44 x Øbar; NO. 7 BARS AND LARGER: 58 x Øbar.
 - HORIZONTAL STIRRUPS SHALL BE STAGGERED ALONG THE REBAR CAGE WITH NO MORE THAN 50% OF SPLICES IN ONE PLACE.
- CONCRETE:
 - PLACEMENT AND CONSTRUCTION PROCEDURE SHALL BE IN COMPLIANCE WITH ACI 318 AND ALL CURRENT APPLICABLE STATE AND LOCAL CODES.
 - MINIMUM COMPRESSIVE STRENGTH - 4000 PSI AT 28 DAYS AND TYPE II CEMENT SHALL BE USED WITH MAX WATER/CEMENT RATIO = 0.50.
 - SLUMP: DRILLED PIER - 7" (±1"), MAT FOUNDATION - 3" (±1").
 - ANCHORS SHALL BE DEPOSITED AS NEARLY AS PRACTICAL IN ITS FINAL POSITION TO AVOID SEGREGATION DUE TO VIBRATION.
 - CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY ALL SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS.
 - ANCHOR BOLT INSTALLATION, ANCHOR BOLT ORIENTATION SHALL BE VERIFIED WITH THE SITE PLANS AND WATER TANK DRAWING FROM THE PRELIMINARY ACCESS POINT ORIENTATION AND ANCHOR BOLT ALIGNMENT PRIOR TO CONCRETE PLACEMENT.



ENGINEERED ENDEAVORS
15175 Kinsman Road
Burton, OH 44062
(440) 970-5004
www.engend.com

05-09-2016

Vertzon Wireless
100-R Monopole
Bridgeport NE
Bridgeport, CT

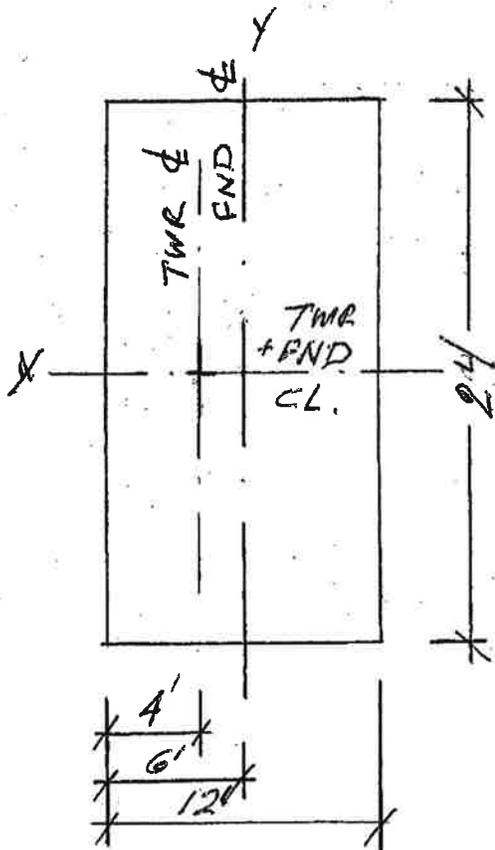
REVISION	DESCRIPTION	DRAWN BY	CHECK BY	DATE	PROJECT NO.
	FOUNDATION DESIGN				18280

TOP VIEW & REINFORCEMENT

18280-ED2.rvt

5.7.2018

EEI No. 18230-EØ2.



BASE REACTIONS

$M = 615 \text{ K}\cdot\text{FT}$

$A = 15.8 \text{ K}$

$S = 11.9 \text{ K}$

51.25" Ø B.C

72" Ø FND

1. Overturning about Y-Y:

$M_{over} = 615 + 11.9 \times 5.0 = 674.5 \text{ K}\cdot\text{FT}$

2. Concrete mat

$W_{conc} = (12' \times 24' \times 3') \times 0.15 = 129.6 \text{ K}$

$S_{otL} = (12 \times 24 \times 1.5) \times 0.10 = 43.2 \text{ K}$

$\Sigma W_c + S = 172.8 \text{ KIP}$

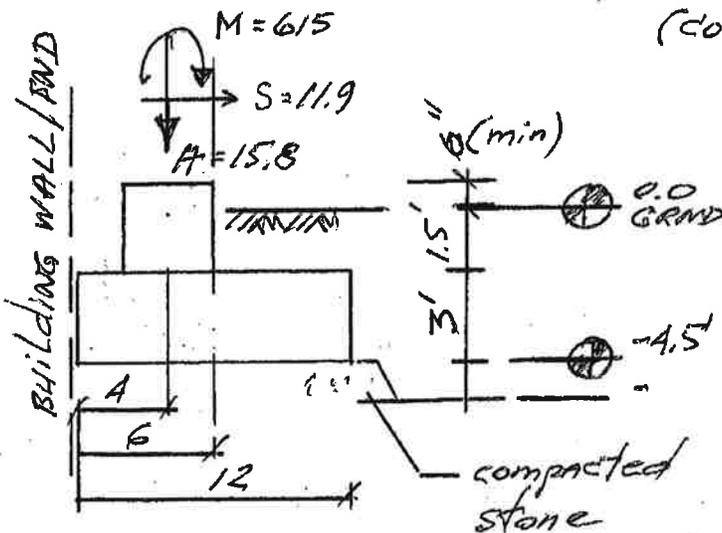
3. Overturning about Y-Y: critical (counter clockwise)

$M_{RES} = 172.8 \times 6' + \left(\frac{15.8}{1.2}\right) \times 4' = 1089.5 \text{ K}\cdot\text{FT}$

$1.2 = \text{OLF (TIA-222)}$

$SF = \frac{M_{RES}}{M_{over}} = \frac{1089.5}{674.5} = 1.62$

O.K



-1-



4.1. Soil bearing pressure (along long edge)

$$e = \frac{\Sigma M}{\Sigma A} = \frac{(674.5/1.6)}{172.8} = 2.44' \neq \frac{L}{6} = \frac{12'}{6} = 2.0$$

1.6-0LF (TSA-222)

Overturning creates
uplift.

$$q_{max} = \frac{4 \times \Sigma A}{3 \times 6(L - 2e)} = \frac{4 \times 172.8}{3 \times 24 \times (12 - 2 \times 2.44)} = \frac{1.35 \text{ KSF}}{0.8}$$

$$B = 24', L = 12'$$

4.2. Soil bearing pressure (along short edge)

$$e' = 2.44 < \frac{L}{6} = \frac{24}{6} = 4.0. \quad \text{No uplift.}$$

$$q_{max} = \frac{\Sigma A}{A_{conc}} + \frac{M}{S_{mom}} = \frac{172.8}{288} + \frac{674.5/1.6}{1152} = 0.97 \text{ KSF} \quad \text{O.K.}$$

$$A_{conc} = 12' \times 24' = 288 \text{ ft}^2$$

$$S_{mom} = \frac{12 \times 24^2}{6} = 1152 \text{ ft}^3$$

5. Reinforcement

a. $\min f = \frac{200}{60,000} = 0.003$

b. Overturning about Y-Y $q_{max} = 1.35 \text{ KSF}$

$$M'_b = 1.35 \times (5') \times \left(\frac{5'}{2}\right) = 16.9 \text{ K-FT/26 ft.}$$

$$R'_d = \frac{M'_b}{0.9 \times 12'' \times (33'')^2} = \frac{16.9 \times 12,000}{0.9 \times 12 \times 33^2} = 17.24 \text{ psi}$$

$$\min f' = \frac{0.85 f_c}{f_y} \times \left(1 - \sqrt{1 - \frac{2R_u}{0.85 f_c}} \right) = 0.0003$$

Use $f = 0.0003$ $12'' \times 33'' \times 0.0003 = 1.19 \text{ in/lin ft.}$

c. Overturning about X-X.

$$M_b'' = 10 \times 9' \times \frac{9.0}{2} = 40.5 \text{ K-FT/lin ft}$$

$$R_u = \frac{40.5 \times 12,000}{0.9 \times 12 \times 33^2} = 41.32 \text{ psi}$$

$\min f'' = 0.0007$ Use $f = 0.0003$ 1.19 in/lin ft.

Use #8 bar 8" c.-c top & bottom
ea. direction

d. Pedestal

$$(72 \times 72) \times 0.0003 = 15.52 \text{ in}^2$$

Use (20) #8 Gr. 60

CELLCO PARTNERSHIP

d.b.a. **verizon**✓

WIRELESS COMMUNICATIONS FACILITY

BRIDGEPORT NE CT

DEVELOPMENT & MANAGEMENT PLAN - DOCKET No. 472

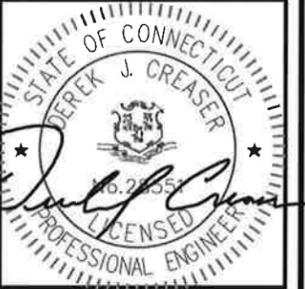
541 BROADBRIDGE ROAD
BRIDGEPORT, CT 06610

PREPARED FOR: CELLCO PARTNERSHIP D.B.A.

verizon✓

H D G
HUDSON
Design Group LLC

45 BEECHWOOD DRIVE TEL: (978) 557-5553
N. ANDOVER, MA 01845 FAX: (978) 336-5586



CHECKED BY: DJR

APPROVED BY: DJC

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
3	05/18/18	REVISED PER COMMENTS	JS/KAM
2	04/23/18	REVISED PER COMMENTS	KAM
1	03/21/18	REVISED PER COMMENTS	JS
0	03/12/18	ISSUED FOR REVIEW	JS

SITE NAME:

BRIDGEPORT NE CT

SITE ADDRESS:

541 BROADBRIDGE ROAD
BRIDGEPORT, CT 06610

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



VICINITY MAP

SCALE: N.T.S.

DIRECTIONS TO SITE:

HEAD NORTH ON ALEXANDER DR TOWARD BARNES INDUSTRIAL RD S
TURN RIGHT ONTO BARNES INDUSTRIAL RD S
TURN LEFT AT THE 1ST CROSS STREET ONTO CT-68 W
TURN RIGHT TOWARD US-5 N/N COLONY RD
TURN RIGHT ONTO US-5 N/N COLONY RD
TURN LEFT TO MERGE ONTO CT-15 S TOWARD NEW HAVEN
TAKE EXIT 52 FOR STATE ROUTE 108 S/STATE ROUTE 8 S TOWARD
BRIDGEPORT
KEEP RIGHT, FOLLOW SIGNS FOR CT-108/STRATFORD
TURN LEFT ONTO CT-108 W/NICHOLS AVE
TURN RIGHT ONTO PENNY AVE
CONTINUE ONTO HUNTINGTON TURNPIKE
TURN LEFT ONTO BROADBRIDGE RD
DESTINATION WILL BE ON THE LEFT.

CONSULTANT TEAM	
PROJECT ENGINEER	HUDSON DESIGN GROUP, LLC 45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845 TEL: 1-(978)-557-5553 FAX: 1-(978)-336-5586
MEP ENGINEER	HUDSON DESIGN GROUP, LLC 45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845 TEL: 1-(978)-557-5553 FAX: 1-(978)-336-5586
SURVEYOR	NORTHEAST SURVEY CONSULTANTS 116 PLEASANT ST. SUITE 302 EASTHAMPTON, MA 01027 TEL: 1-(413)-203-5144

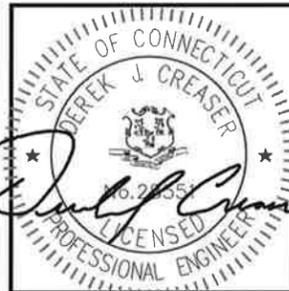
PROJECT SUMMARY	
SITE NAME:	BRIDGEPORT NE CT
SITE ADDRESS:	541 BROADBRIDGE ROAD BRIDGEPORT, CT 06610
PROPERTY OWNER:	BEARDSLEY PLAZA LIMITED PARTNERSHIP P.O. BOX 1700 BRIDGEPORT, CT 06601
APPLICANT:	CELLCO PARTNERSHIP d/b/a VERIZON 20 ALEXANDER DRIVE WALLINGFORD, CT 06492
SITE ACQUISITION CONTACT:	ALEKSEY TYURIN CELLCO PARTNERSHIP (806) 803-8213
LEGAL/REGULATORY COUNSEL:	KENNETH C. BALDWIN ESQ. ROBINSON + COLE LLP (860)275-8345
LATITUDE:	N41° 13' 19.494"
LONGITUDE:	W73° 10' 02.504"

SCOPE OF WORK INFO.
VERIZON WIRELESS IS PROPOSING TO INSTALL THE FOLLOWING IMPROVEMENTS ON PROPOSED TELECOMMUNICATION SITE:
<ul style="list-style-type: none"> NEW 8'x20' FENCED LEASE AREA ON EXISTING PARCEL OF LAND. NEW PANEL ANTENNAS: (2) ANTENNA PER SECTOR WITH (3) SECTORS, FOR A TOTAL OF (6) ANTENNAS. (12) NEW QUADPLEXERS. ITEMS LISTED ABOVE TO BE MOUNTED WITHIN PROPOSED VERIZON FLAGPOLE.
<ul style="list-style-type: none"> NEW EQUIPMENT CABINETS: (2) CABINETS WITH GENERATOR ON PROPOSED 7'x13' CONCRETE EQUIPMENT PAD. NEW RRHs: (3) RRHs PER SECTOR WITH (3) SECTORS, FOR A TOTAL OF (9) RRHs ITEMS LISTED ABOVE TO BE INSTALLED WITHIN THE PROPOSED 8'x19' FENCED COMPOUND.
<ul style="list-style-type: none"> NEW POWER AND TELCO SERVICES WILL BE ROUTED UNDERGROUND FROM EXISTING UTILITY POLE TO PROPOSED ELECTRICAL METER AND HOFFMAN BOX ON PROPOSED H-FRAME. FINAL UTILITY ROUTING TO BE DETERMINED/VERIFIED BY UTILITY COMPANIES.

SHEET INDEX	
SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
C-1	PARTIAL SITE PLAN
C-2	COMPOUND PLAN
A-1	ELEVATION AND ANTENNA PLAN
A-2	EQUIPMENT DETAILS
A-3	CABLE SUPPORT DETAILS
A-4	FENCE DETAILS
A-5	RETAINING WALL DETAILS
A-6	SITE SURFACE AND EROSION CONTROL DETAILS



45 BEECHWOOD DRIVE N. ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586



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SUBMITTALS

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1	03/21/18	REVISED PER COMMENTS	JS
0	03/12/18	ISSUED FOR REVIEW	JS

SITE NAME:

BRIDGEPORT NE CT

SITE ADDRESS:

541 BROADBRIDGE ROAD
BRIDGEPORT, CT 06610

SHEET TITLE

PARTIAL
SITE PLAN

SHEET NUMBER

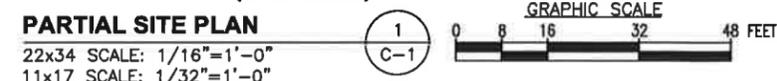
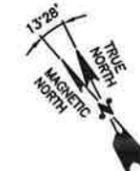
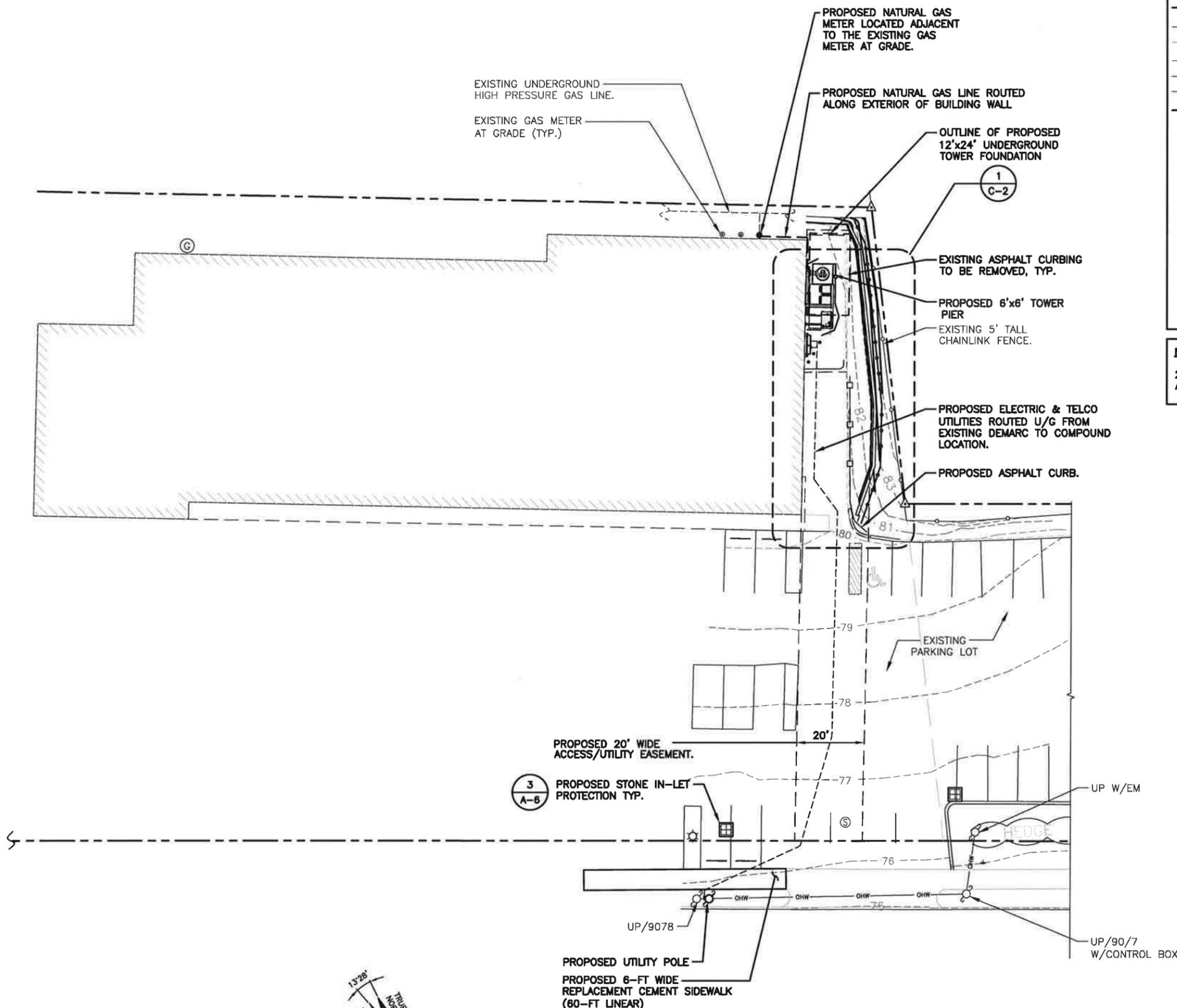
C-1

LEGEND

- PROPERTY LINE - SUBJECT PARCEL
- ABUTTERS PROPERTY LINE
- CONTOUR LINE
- OHW --- OVERHEAD WIRE
- CHAIN LINK FENCE
- YELLOW PAINTED LINE
- 81 --- PROPOSED CONTOUR LINE
- ⊠ CATCH BASIN
- ⊙ ROOF DRAIN
- ⊙ POST
- ⊙ MANHOLE
- ⊙ GAS METER (EXISTING/NEW)
- ♂ EXISTING UTILITY POLE
- + GUY WIRE ANCHOR
- ☆ LIGHT POLE
- IRON PIPE FOUND
- ⊠ CONC. BOUND FOUND
- △ CALCULATED POINT
- CLR CLEARANCE

NOTE:

2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL



PROPOSED GAS METER

EXISTING GAS METER AT GRADE (TYP.)

T.O.W. : 83.00
B.O.W. : 82.00

OUTLINE OF PROPOSED 12'x24' UNDERGROUND TOWER FOUNDATION

PROPOSED 6'x6' TOWER PIER

PROPOSED ±8'x20' GRAVELED COMPOUND.

PROPOSED 8' TALL CHAINLINK FENCE W/ PRIVACY SLATS.

PROPOSED 100' TALL FLAGPOLE TOWER.

PROPOSED PANEL ANTENNAS (TYP. OF 2 PER SECTOR, TOTAL OF 6) AND ASSOCIATED APPURTENANCES WITHIN FLAGPOLE.

PROPOSED HOFFMAN BOX, POWER DISTRIBUTION BOX, AND RRH'S ON UNISTRUT ATTACHED TO WALL (TOTAL OF 9 RRHs)

PROPOSED EQUIPMENT CABINET AND BATTERY CABINET ON STEEL DUNNAGE MOUNTED TO CONCRETE PAD AT GRADE WITHIN FENCED AREA

PROPOSED ICE BRIDGE

PROPOSED 8' GATE

PROPOSED NATURAL GAS FUELED 15KW GENERATOR ON STEEL DUNNAGE MOUNTED TO CONCRETE PAD AT GRADE WITHIN FENCED AREA.

PROPOSED 5' SAFETY CHAIN LINK FENCE

PROPOSED UTILITY BACKBOARD AND BOLLARDS.

PROPOSED CONSTRUCTION SILT SOCK. REFER TO 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL

PROPOSED SAW-CUT, REMOVE AND DISPOSE BITUMINOUS CONCRETE

EXISTING DISTURBED AREA TO BE RESTORED TO IT'S ORIGINAL CONDITION (LAWN SURFACE COVER)

EXISTING 5' TALL CHAINLINK FENCE.

EXISTING ASPHALT CURBING TO BE REMOVED, TYP.

PROPOSED CONCRETE BLOCK RETAINING WALL (WITH SAFETY FENCE) TO ALLOW 5' CLEARANCE AROUND FENCED COMPOUND.

T.O.W. : 83.00
B.O.W. : 81.00

T.O.W. : 83.00
B.O.W. : 80.50

DRAIN OUT-LET

PROPOSED ASPHALT CURB.

PROPOSED CONSTRUCTION SILT SOCK

LEGEND

- PROPERTY LINE - SUBJECT PARCEL
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- ⊙ MANHOLE
- ⊙ GAS METER (EXISTING/NEW)
- ⊙ EXISTING UTILITY POLE
- + GUY WIRE ANCHOR
- ☆ LIGHT POLE
- IRON PIPE FOUND
- ⊠ CONC. BOUND FOUND
- △ CALCULATED POINT
- CLR CLEARANCE

4
A-3
PROPOSED NATURAL GAS CONDUIT ROUTED ALONG EXTERIOR OF BUILDING FROM NEW GAS METER

PROPOSED EXHAUST PIPE EXTENDED 1 FT ABOVE PARAPET WALL

EXISTING BUILDING

2
A-3
PROPOSED ELECTRIC & TELCO UTILITIES ROUTED U/G FROM EXISTING DEMARC TO COMPOUND LOCATION.

20'-9"± CLR

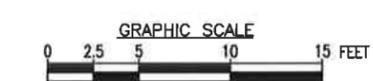
EXISTING GRASS AREA

14'-3"± CLR

EXISTING ASPHALT PARKING LOT



COMPOUND PLAN
22x34 SCALE: 1"= 5'-0"
11x17 SCALE: 1"=10'-0"



PREPARED FOR: CELCO PARTNERSHIP D.B.A.



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N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586



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SITE NAME:
BRIDGEPORT NE CT

SITE ADDRESS:
541 BROADBRIDGE ROAD
BRIDGEPORT, CT 06610

SHEET TITLE
COMPOUND PLAN

SHEET NUMBER
C-2

- ◆ TOP OF PROPOSED FLAGPOLE TOWER
EL. ±100.0' A.G.L.
- ◆ TOP OF PROPOSED UPPER ANTENNAS
EL. ±95.0' A.G.L.
- ◆ C. OF PROPOSED ANTENNAS
EL. ±92.0' A.G.L.
- ◆ TOP OF PROPOSED LOWER ANTENNAS
EL. ±85.0' A.G.L.
- ◆ C. OF PROPOSED ANTENNAS
EL. ±82.0' A.G.L.

PROPOSED VERIZON PANEL ANTENNAS
(TYP. OF 2 PER SECTOR, TOTAL OF 6) AND
ASSOCIATED APPURTENANCES WITHIN FLAGPOLE.

NOTE:

1. PROPOSED NEW TOWER AND FOUNDATION DESIGN BY OTHERS
2. VERIFY AZIMUTHS W/ RF ENGINEER.

TOWER NOTES:

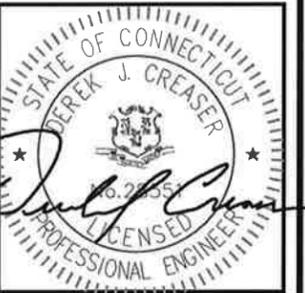
- 1.) TOWER ELEVATION IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL REFER TO TOWER MANUFACTURER DRAWINGS FOR COMPLETE INSTALLATION AND BILL OF MATERIAL INFORMATION.
- 2.) TOWER MINIMUM DESIGN SPECIFICATIONS SHALL BE IN ACCORDANCE WITH ANSI/TIA/EIA 222-G "STRUCTURAL STANDARDS FOR SUPPORTING STRUCTURES AND ANTENNAS, REVISION G" AND GOVERNING FEDERAL, STATE, AND LOCAL CODE REQUIREMENTS
- 3.) TOWER MANUFACTURER SHALL BE RESPONSIBLE FOR DESIGN AND STRUCTURAL COMPONENTS OF THE TOWER.
- 4.) FINAL UTILITY CONNECTIONS SHALL BE COORDINATED WITH THE LOCAL UTILITIES.
- 5.) PROVIDE RIGID FOAM INSULATION ALONG EXISTING BUILDING FOUNDATION AT TOWER LOCATION.

PREPARED FOR: CELLCO PARTNERSHIP D.B.A.

verizon

H D G
HUDSON
Design Group LLC

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N. ANDOVER, MA 01845 FAX: (978) 336-5586



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SUBMITTALS

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3	06/18/18	REVISED PER COMMENTS	JS/KAM
2	04/23/18	REVISED PER COMMENTS	KAM
1	03/21/18	REVISED PER COMMENTS	JS
0	03/12/18	ISSUED FOR REVIEW	JS

SITE NAME:

BRIDGEPORT NE CT

SITE ADDRESS:

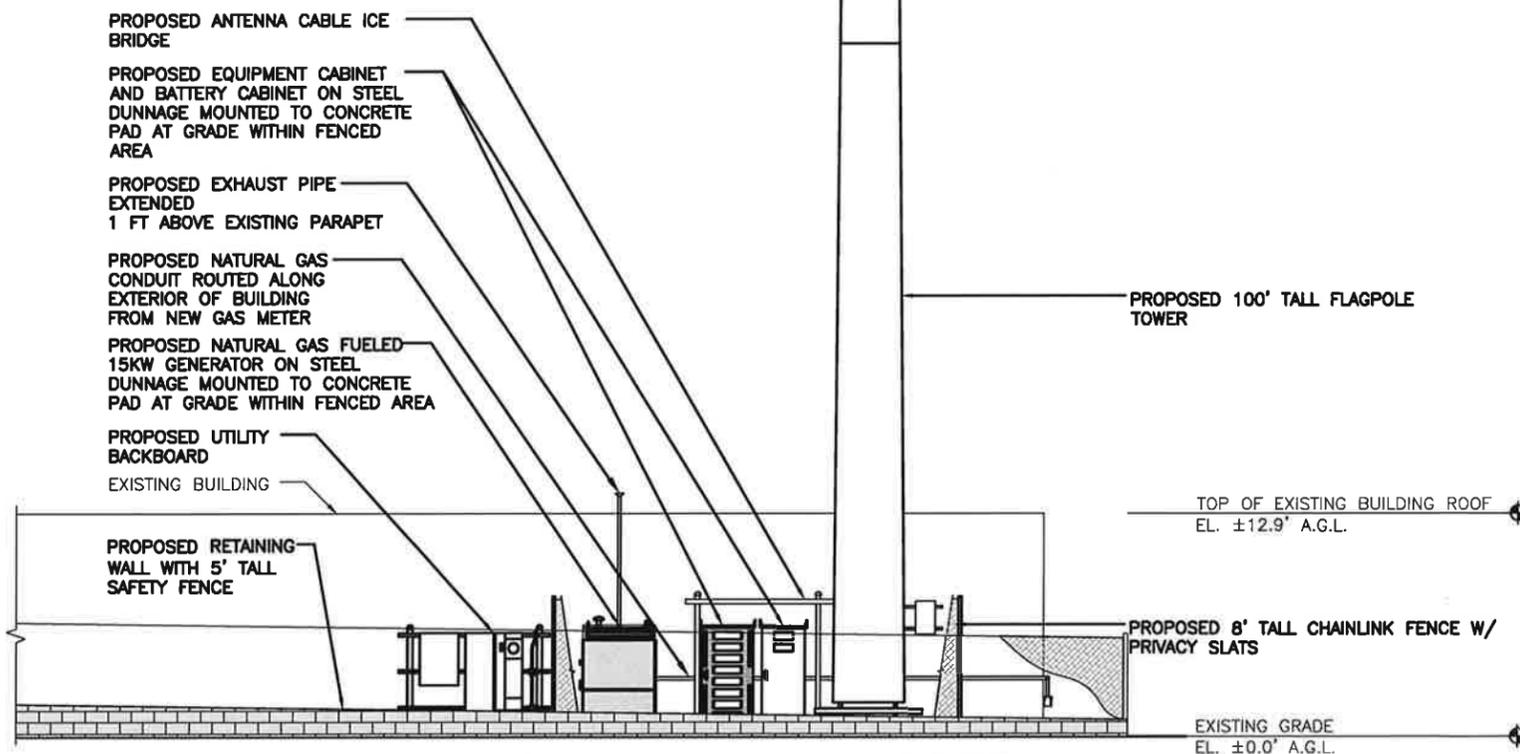
541 BROADBRIDGE ROAD
BRIDGEPORT, CT 06610

SHEET TITLE

ELEVATION AND
ANTENNA PLAN

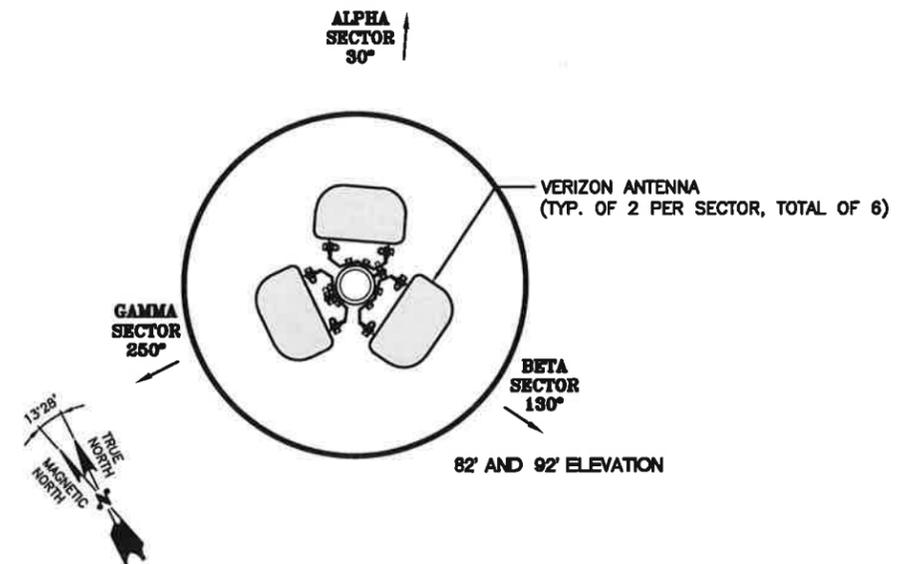
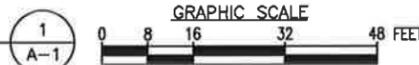
SHEET NUMBER

A-1



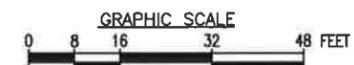
EAST ELEVATION

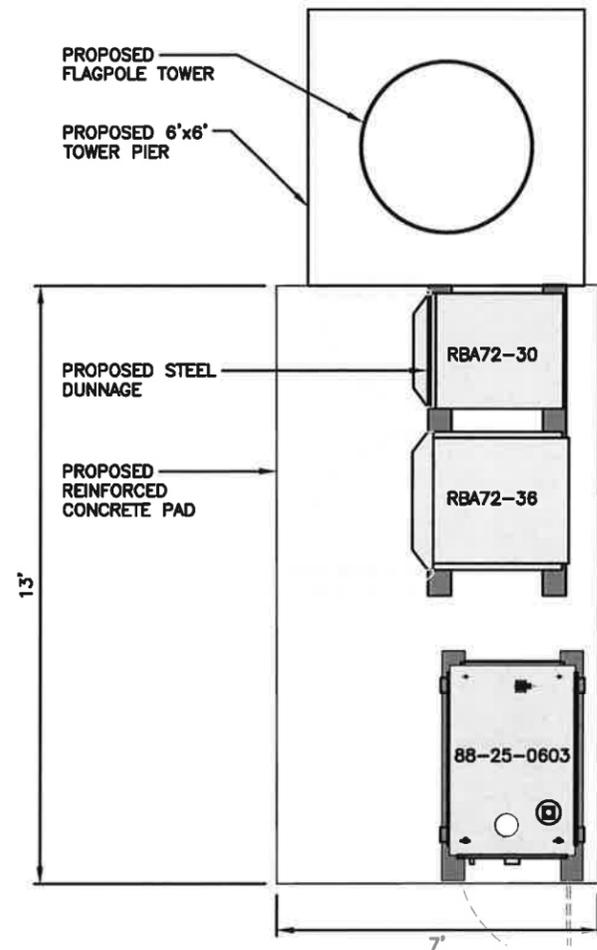
22x34 SCALE: 1/16"=1'-0"
11x17 SCALE: 1/32"=1'-0"



ANTENNA MOUNTING CONFIGURATION

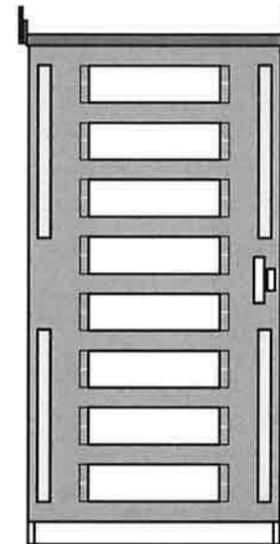
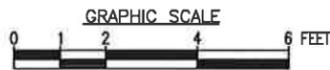
22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"





EQUIPMENT PLAN
 22x34 SCALE: 1/2"=1'-0"
 11x17 SCALE: 1/4"=1'-0"

1
A-2

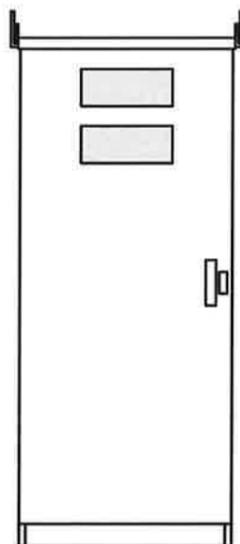


SPECIFICATIONS:
 MANUFACTURER: COMMSCOPE
 PART NO.: RBA72-36
 SIZE: 72"x36"x40"
 WEIGHT: 2,500 LBS

NOTE:
 ANCHOR CABINET TO STEEL
 DUNNAGE PER MANUFACTURERS
 RECOMMENDATIONS

BATTERY CABINET DETAIL
 SCALE: N.T.S

2
A-2

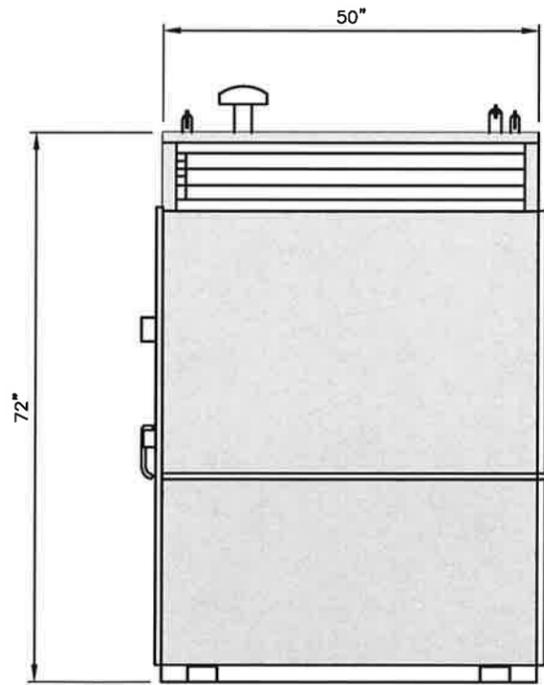


SPECIFICATIONS:
 MANUFACTURER: COMMSCOPE
 PART NO.: RBA72-30
 SIZE: 72"x30"x42"
 WEIGHT: 740 LBS

NOTE:
 ANCHOR CABINET TO STEEL
 DUNNAGE PER MANUFACTURERS
 RECOMMENDATIONS

EQUIPMENT CABINET DETAIL
 SCALE: N.T.S

3
A-2



SPECIFICATIONS:
 MANUFACTURER: POLAR
 POWER INC.
 PART NO.: 88-25-0603
 SIZE: 72"x50"x32"
 WEIGHT: 943 LB.

NOTE:
 ANCHOR CABINET TO STEEL
 PLATFORM PER MANUFACTURERS
 RECOMMENDATIONS

GENERATOR DETAIL
 SCALE: N.T.S

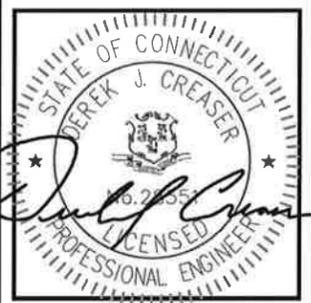
4
A-2

PREPARED FOR: CELLCO PARTNERSHIP D.B.A.

verizon

H D G
HUDSON
Design Group LLC

45 BEECHWOOD DRIVE TEL: (978) 557-5563
 N. ANDOVER, MA 01845 FAX: (978) 336-5586



CHECKED BY: DJR

APPROVED BY: DJC

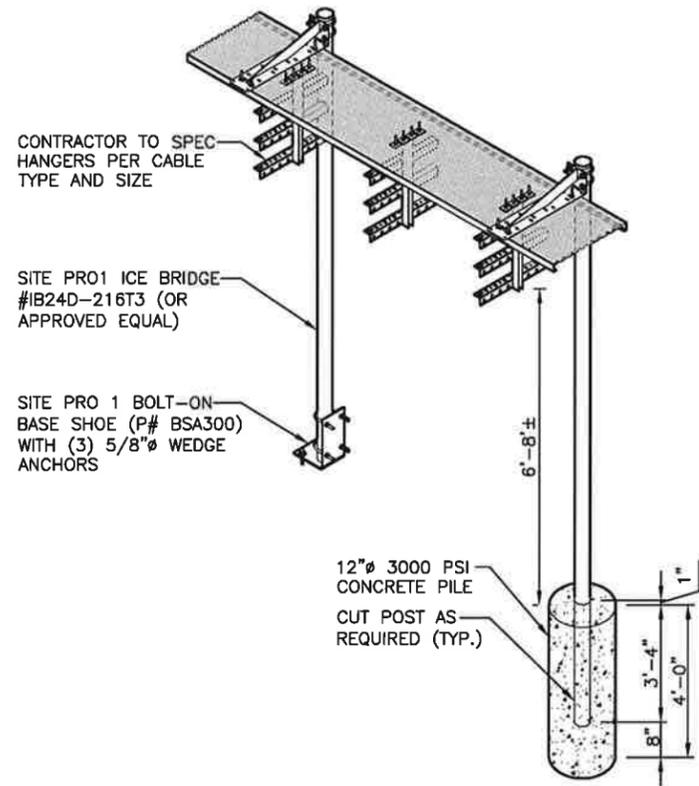
SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
3	05/18/18	REVISED PER COMMENTS	JS/KAM
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SITE NAME:
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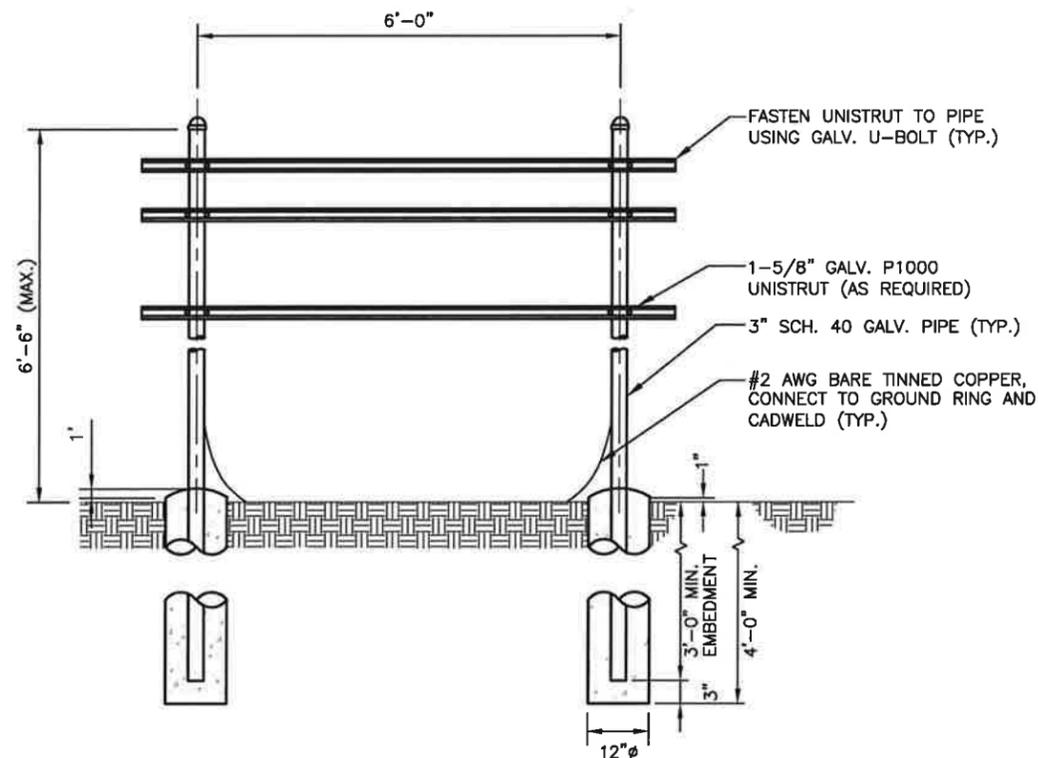
SITE ADDRESS:
 541 BROADBRIDGE ROAD
 BRIDGEPORT, CT 06610

SHEET TITLE:
EQUIPMENT DETAILS

SHEET NUMBER:
A-2

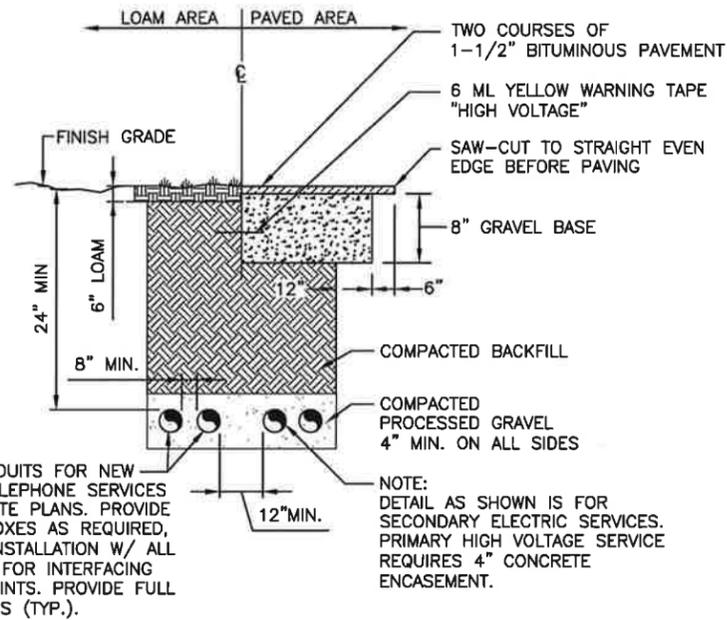


CABLE BRIDGE DETAIL
22x34 SCALE: N.T.S

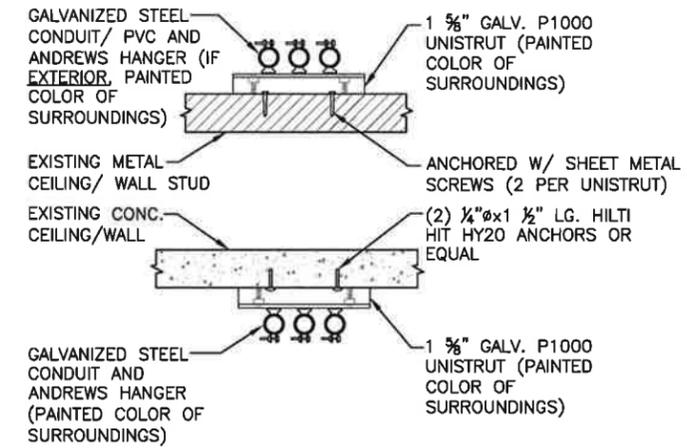


H-FRAME DETAIL
SCALE: N.T.S

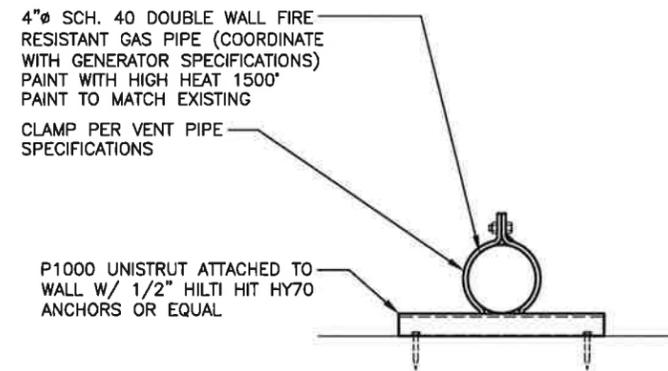
INSTALL (2) PULL STRINGS AND CAP THE TELCO CONDUITS INSIDE THE VAULT AND MESA CABINET TO AVOID WATER/ICE FILL UP



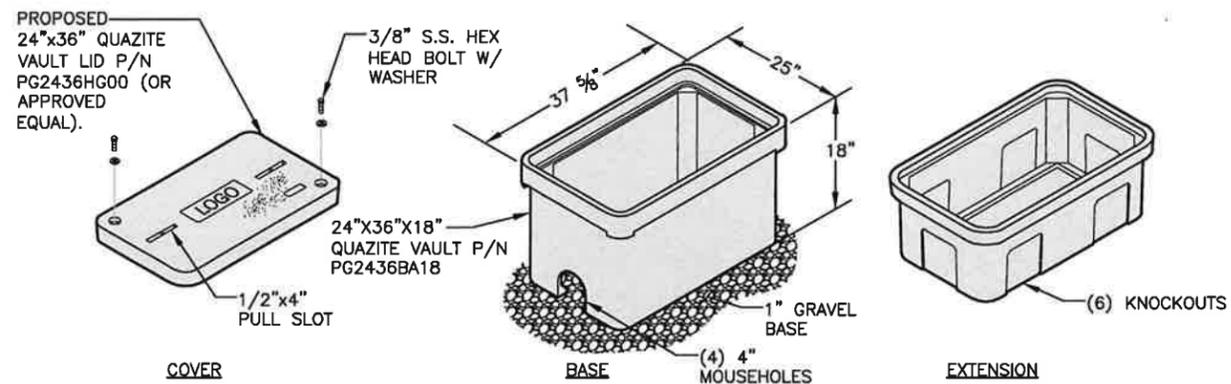
BURIED CONDUIT DETAIL
SCALE: N.T.S



CONDUIT RUN DETAIL
SCALE: N.T.S



GAS PIPE SUPPORT DETAIL
SCALE: N.T.S

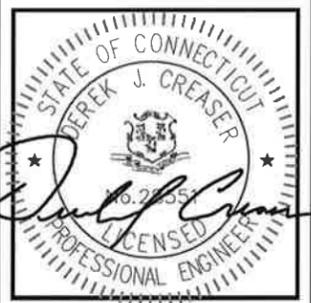


NOTE:
1. THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. SEE SPECIFICATION PROVIDED BY ELECTRICAL DESIGNER FOR FURTHER DETAIL AND INSTALLATION.
2. PROVIDE STANDARD HANDHOLE. COVER COLOR SHALL BE AS SPECIFIED BY THE NIH.
3. PROVIDE 25mm (1 inch) X 10mm (3/8 inch) BELL PULL SLOT FOR EACH HANDHOLE.
4. COVER, RING AND BOX SHALL BE MADE OF SAME MATERIAL.
5. PROVIDE IMPRINTED LOGO TO MATCH.

FOR TELCO AND POWER
HANDHOLE DETAIL
SCALE: N.T.S



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BRIDGEPORT NE CT

SITE ADDRESS:
541 BROADBRIDGE ROAD
BRIDGEPORT, CT 06610

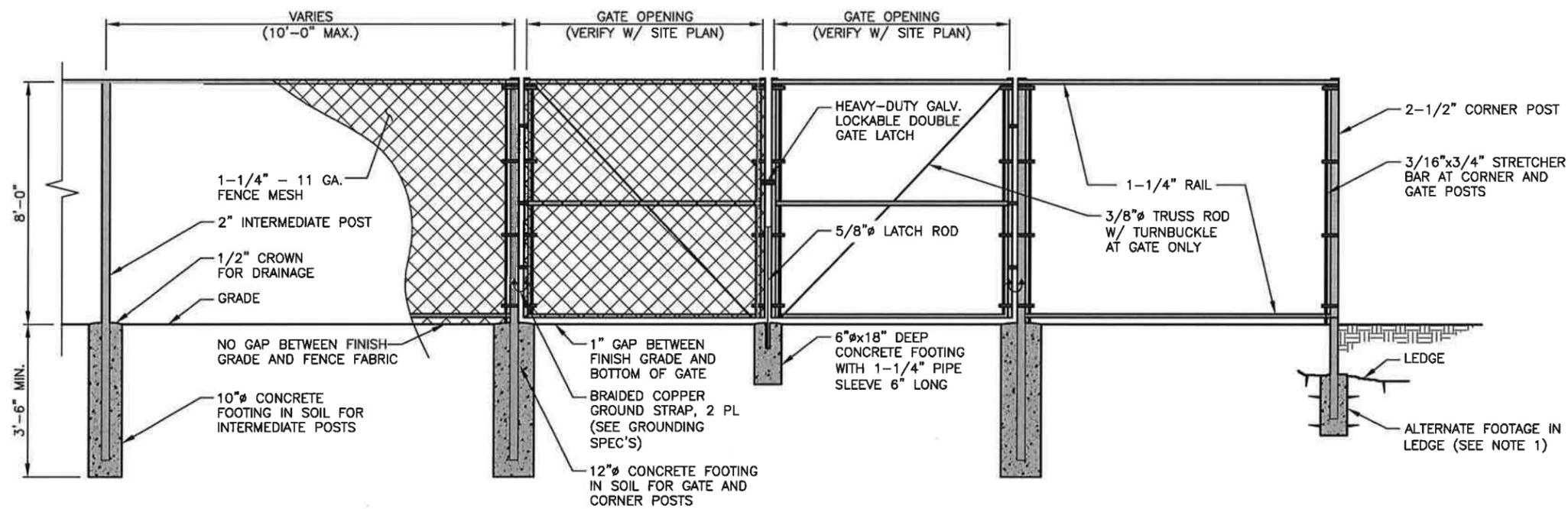
SHEET TITLE
CABLE SUPPORT DETAILS

SHEET NUMBER
A-3

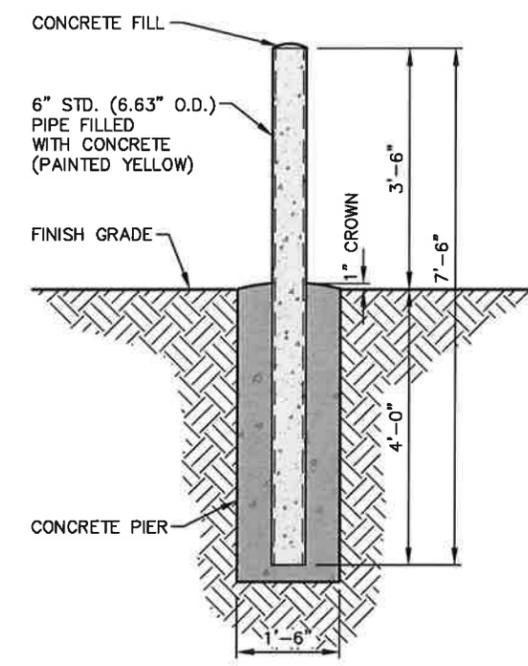
FENCE NOTES

1. ALTERNATE FOOTINGS FOR ALL FENCE POSTS IN LEDGE: IF LEDGE IS ENCOUNTERED AT GRADE, OR AT A DEPTH SHALLOWER THAN 3'-6", CORE DRILL AN 8" DIA HOLE 18" INTO THE LEDGE. CENTER POST IN THE HOLE AND FILL WITH CONCRETE OR GROUT. IF LEDGE IS BELOW FINISH GRADE, COAT BACKFILLED SECTION OF POST WITH COAL TAR, AND BACKFILL WITH WELL-DRAINING GRAVEL.

2. ATTACH EACH GATE WITH 1-1/2" PAIR OF NON-LIFT-OFF TYPE, MALLEABLE IRON OR FORGING, PIN-TYPE HINGES. ASSEMBLIES SHALL ALLOW FOR 180° OF GATE TRAVEL.



CHAINLINK FENCE DETAIL 1
SCALE: N.T.S. A-4



CONCRETE FILLED BOLLARD 2
22x34 SCALE: N.T.S. A-4



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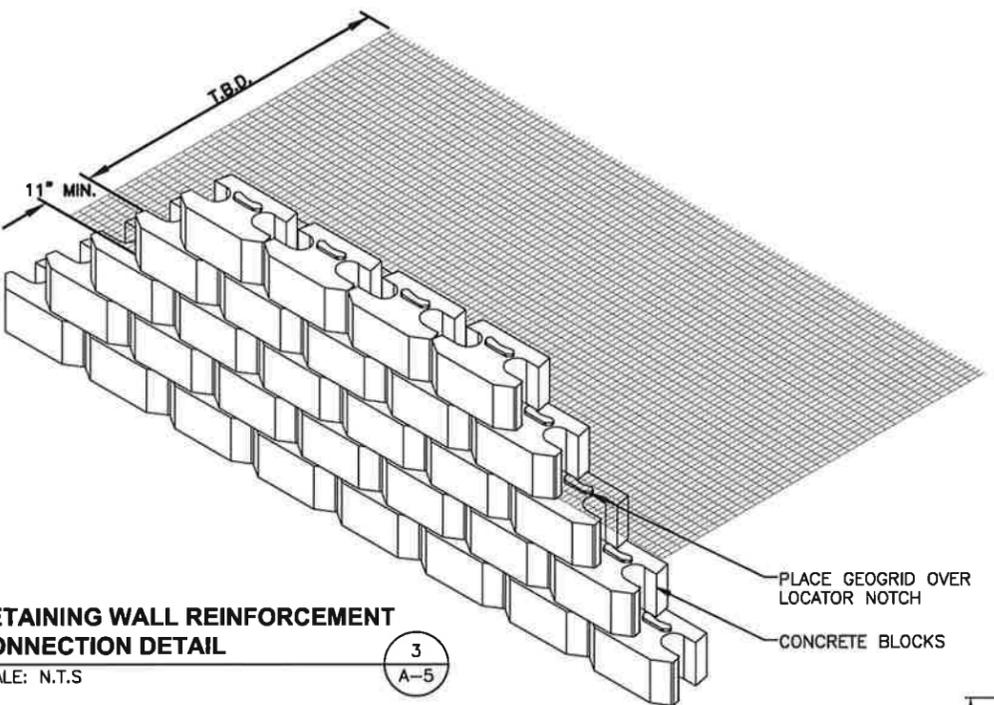
SITE NAME:
BRIDGEPORT NE CT

SITE ADDRESS:
541 BROADBRIDGE ROAD
BRIDGEPORT, CT 06610

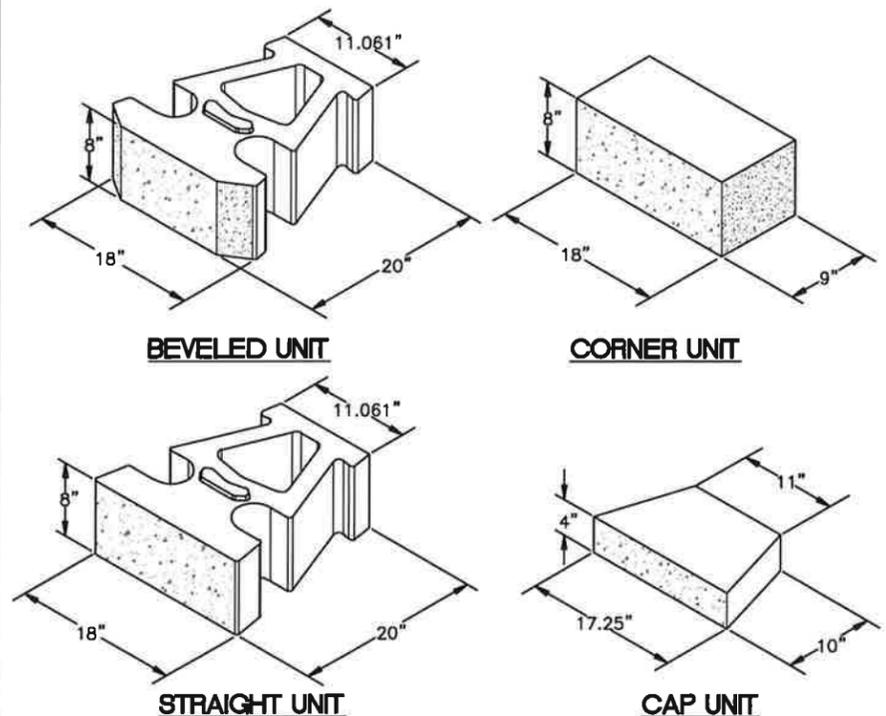
SHEET TITLE
FENCE DETAILS

SHEET NUMBER
A-4

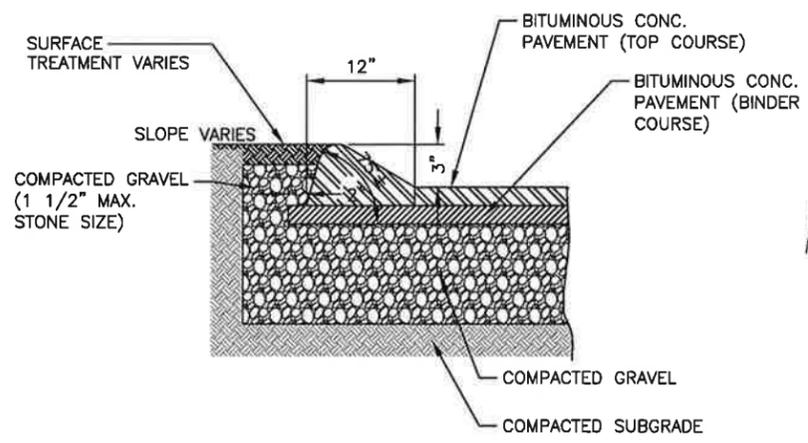
- RETAINING WALL NOTES:**
1. CONCRETE UNITS TO BE VERTICA PRO BLOCKS AS MANUFACTURED BY ANCHOR WALL SYSTEMS OR APPROVED EQUAL
 2. DRAWINGS FOR SCHEMATIC & BIDDING PURPOSES ONLY. FINAL DESIGN BY VERTICA PRO (OR EQUAL).
 3. WALL HEIGHT GREATER THAN 6 FEET WILL REQUIRE THE USE OF GEOSYNTHETIC REINFORCEMENT. CONSULT MANUFACTURER FOR PLACEMENT REQUIREMENTS.



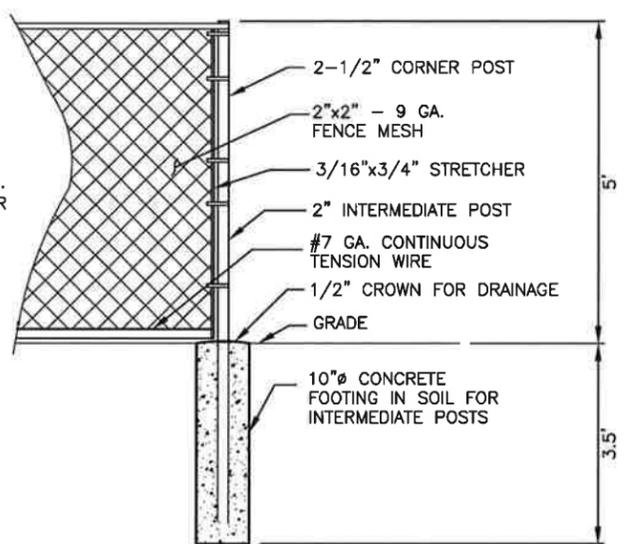
RETAINING WALL REINFORCEMENT CONNECTION DETAIL
SCALE: N.T.S.



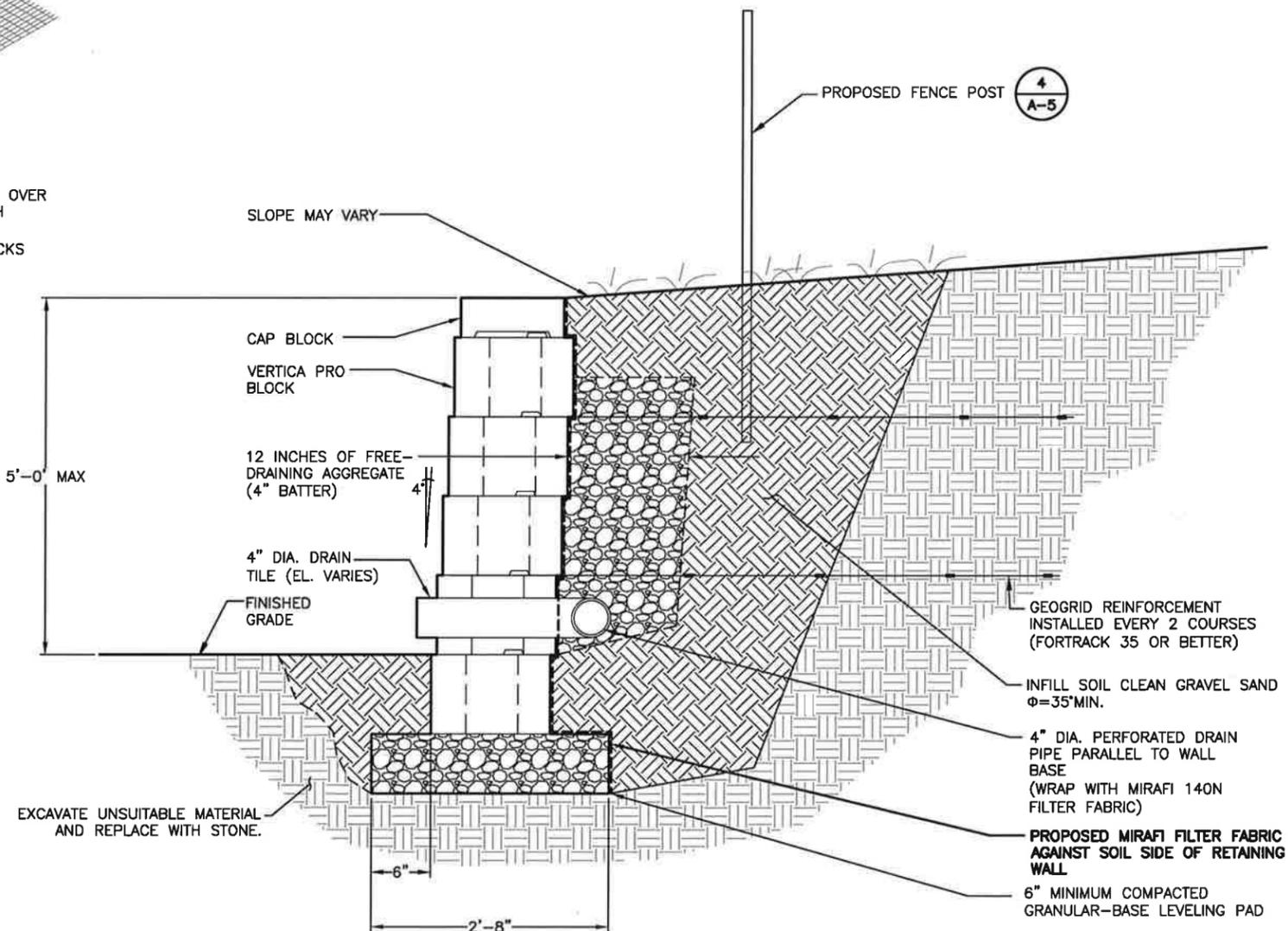
TYPICAL RETAINING WALL BLOCK DETAIL
SCALE: N.T.S.



BITUMINOUS CURB DETAIL
SCALE: N.T.S.



SAFETY FENCE DETAILS
SCALE: N.T.S.

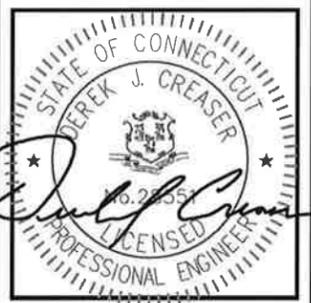


TYPICAL RETAINING WALL SECTION DETAIL
SCALE: N.T.S.

PREPARED FOR: CELCO PARTNERSHIP D.B.A.



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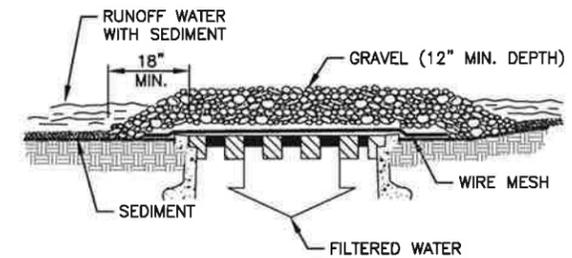
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SITE NAME:
BRIDGEPORT NE CT

SITE ADDRESS:
541 BROADBRIDGE ROAD
BRIDGEPORT, CT 06610

SHEET TITLE
**RETAINING WALL
DETAIL**

SHEET NUMBER
A-5



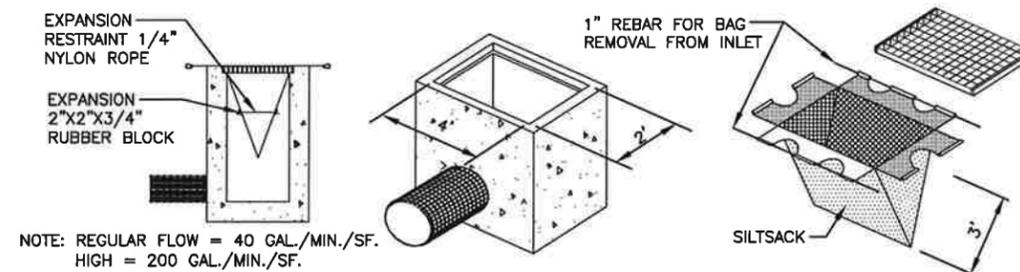
CONSTRUCTION SEQUENCE:

1. A WIRE MESH SHOULD BE PLACED OVER THE DROP INLET OR CURB OPENING SO THAT THE ENTIRE OPENING AND A MINIMUM OF 12 INCHES AROUND THE OPENING ARE COVERED BY THE MESH. THE MESH MAY BE ORDINARY HARDWARE CLOTH OR WIRE MESH WITH OPENINGS UP TO 1/2 INCH.
2. THE WIRE MESH SHOULD BE COVERED WITH CLEAN COARSE AGGREGATE SUCH AS SEWER STONE FOR A MINIMUM DEPTH OF 12 INCHES.
- 3) THE COARSE AGGREGATE SHOULD EXTEND AT LEAST 18 INCHES ON ALL SIDES OF THE DRAIN OPENING.

MAINTENANCE:

ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAIN STORM AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE REMOVED FROM THE TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURAL OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.

STONE INLET PROTECTION DETAIL-ON SITE

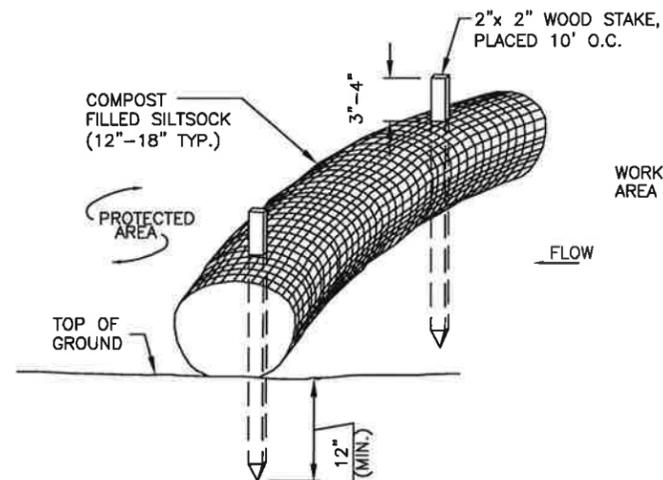


NOTE: REGULAR FLOW = 40 GAL./MIN./SF.
HIGH = 200 GAL./MIN./SF.

SILKSACK DETAIL - ON OR OFF SITE

STONE INLET PROTECTION DETAIL

SCALE: N.T.S.



NOTES:

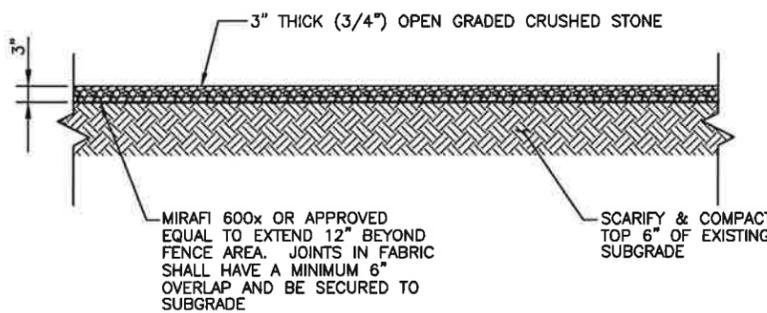
1. SILT SOCK SHALL BE FILTREXX SILT SOXX, OR APPROVED EQUAL.
2. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
4. SEE SPECIFICATIONS FOR SOCK SIZE, AND COMPOST FILL, REQUIREMENTS.

SILT SOCK DETAIL (WHERE APPLICABLE)

SCALE: N.T.S.

COMPOUND SURFACE DETAIL

22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"



CHECKED BY: DJR

APPROVED BY: DJC

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SITE NAME:

BRIDGEPORT NE CT

SITE ADDRESS:

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BRIDGEPORT, CT 06610

SHEET TITLE

SITE SURFACE
AND EROSION
CONTROL DETAILS

SHEET NUMBER

A-6