SITE NUMBER: 10141753
SITE NAME: BROOKTONDALE
PROJECT TYPE: NSB

PROJECT INFORMATION

1.	APPLICANT:	AT&T MOBILITY CORP. 5841 BRIDGE STREET EAST SYRACUSE, NEW YORK 13057
2.	PROPERTY OWNER:	MISSAL 340 BALD HILL ROAD BROOKTONDALE, NEW YORK 14817
3.	SITE ADDRESS:	340 BALD HILL ROAD BROOKTONDALE, NEW YORK 14817
4.	TOWER COORDINATES:	LAT: 42° 21' 54.03", 42.365008 LONG: 76° 23' 01.54", -76.383761
5.	TAX ID #:	15.-1-58
6.	COUNTY:	TOMPKINS
7.	HAMLET:	BROOKTONDALE
8.	ZONING JURISDICTION:	TOWN OF CAROLINE
9.	AREA OF DISTURBANCE:	0.50± ACRES

DESCRIPTION OF WORK:

INSTALLATION OF A 199'± MONOPOLE TOWER AND 70' x 70' FENCED COMPOUND WITHIN 100' x 100' LEASE AREA. INSTALLATION OF 12' GRAVEL ACCESS DRIVE AND ALL OTHER ASSOCIATED UTILITIES WITHIN 30' INGRESS/ EGRESS EASEMENT.

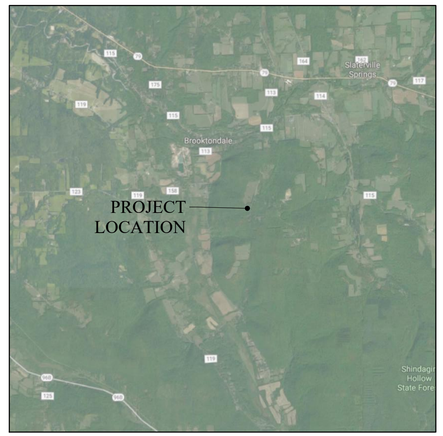
INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT CABINETS FOR AT&T'S TELECOMMUNICATIONS NETWORK.

PROPOSED GROUND EQUIPMENT:

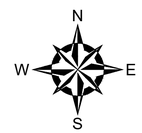
- (2) CABINETS & GENERATOR ON ELEVATED EQUIPMENT PLATFORM WITH ICE CANOPY.
- METER IN PROPOSED METER BANK.
- HOFFMAN BOX FOR FIBER DEMARC.
- ICE BRIDGE, GPS & (1) FIBER MANAGEMENT BOX.
- UNDERGROUND POWER & TELCO.
- UTILITY BACKBOARD.
- NEW GROUND RING.

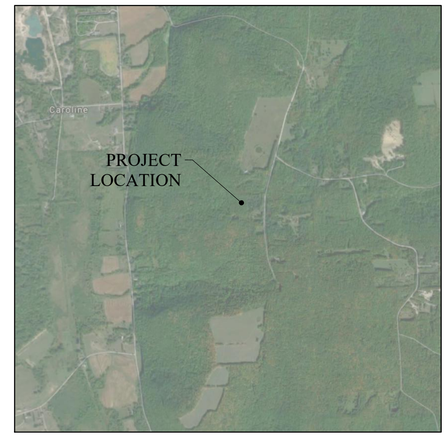
PROPOSED TOWER EQUIPMENT:

- (3) ANTENNA FRAMES @ 191'± AGL.
- (6) NNH4-65C-R6 ANTENNAS (2 PER SECTOR)
- (3) RRH-4478 B14, (3) RRUS-8843 B2/B66
- (3) RRUS-4449 B5/B12
- (3) DC6-48-60-0-8F (SQUID)
- (6) DC POWER CABLES, (2) FIBER CABLES



VICINITY MAP
NOT TO SCALE





LOCATION MAP
NOT TO SCALE

DIRECTIONS TO SITE FROM EAST SYRACUSE

TAKE I-81 S TOWARD BINGHAMTON TO EXIT 12 TOWARD U.S. 11/ NY-41/ NY-281/ CORTLAND/ HOMER. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR NY-281/ ITHACA, 0.5 MI. TURN LEFT ONTO NY-281 S/ W HOMER RD (CONTINUE TO FOLLOW NY-281 S), 3.8 MI. CONTINUE ONTO NY-13 S, 7.6 MI. TURN RIGHT ONTO W MAIN ST, 0.5 MI. TURN RIGHT ONTO FERGUSON RD, 1.1 MI. TURN LEFT ONTO IRISH SETTLEMENT RD, 4.6 MI. CONTINUE ONTO MIDLINE RD, 2.5 MI. CONTINUE ONTO CREAMERY RD, 1.2 MI. TURN LEFT ONTO CENTRAL CHAPEL RD, 0.7 MI. TURN RIGHT ONTO GROVE SCHOOL RD, 1.6 MI. TURN LEFT ONTO BALD HILL ROAD, 0.3 MI. SITE ACCESS WILL BE ON RIGHT.

GENERAL NOTES:

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2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

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CA130	GRADING & EROSION CONTROL PLAN	1	05/06/2019
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CA501	DETAILS	0	04/18/2019
CA502	EROSION & SEDIMENT CONTROL DETAILS	0	04/18/2019
CA503	EROSION & SEDIMENT CONTROL DETAILS	0	04/18/2019

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NO.	REVISION DATE	REVISION DATE	ISSUE/DESCRIPTION	BY	DATE
2				CJM	05/06/2019
1				CJM	04/18/2019

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STATE OF NEW YORK
BARTA. KLETTI
Licensed Professional Engineer
069423

SITE NAME:
BROOKTONDALE
SITE NUMBER: 10141753

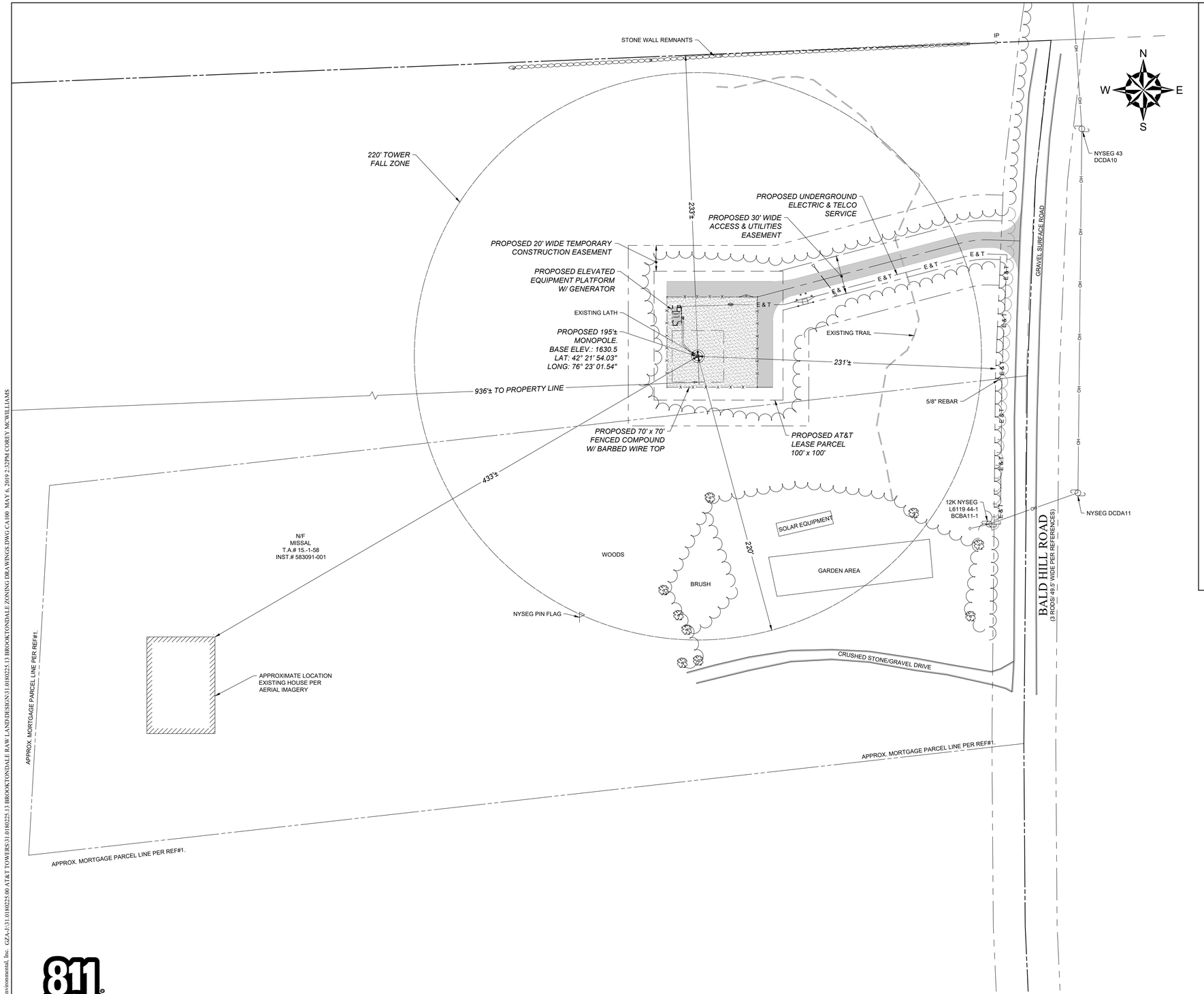
PROJECT ADDRESS:
340 BALD HILL ROAD
BROOKTONDALE, NEW YORK 14817

PROJECT TYPE: NSB

COVER SHEET

DESIGNED BY:	CHECKED BY:	REVISION:
CJM	EKR	2
DRAWN BY: CJM	SCALE: NONE	DWG GA001
PROJECT NO. 31.0180225.13	DATE: 03/15/2019	SHEET NO. 01 OF 08

© 2019 - GZA GeoEnvironmental, Inc. GZA-J:\31.0180225.00 AT&T TOWERS\31.0180225.13 BROOKTONDALE RAW LAND\DESIGN\31.0180225.13 BROOKTONDALE ZONING DRAWINGS.DWG GA001 MAY 6, 2019 2:23PM COREY MCWILLIAMS



SITE PLAN

SCALE: 1" = 40' (22 x 34)
1" = 80' (11 X 17)

0 20' 40' 80'
1" = 40' (22 x 34)
1" = 80' (11 x 17)

EXISTING BUILDING
PROPERTY LINE
EXISTING ASPHALT
TREE LINE, EVERGREEN TREE, DECIDUOUS TREE, SHRUB
GUARD RAIL
RIGHT-OF-WAY LINE
100 EXISTING CONTOUR
100 PROPOSED CONTOUR
S.F. SILT FENCE
L.O.D. PROPOSED LIMIT OF DISTURBANCE
C.F.S. COMPOST FILTER SOCK
O.C.F. ORANGE CONSTRUCTION FENCE
SWALE/ DITCH, FLOW ARROW, CHECK DAM
ROCK WALL
X BARBED WIRE FENCE
OH OVERHEAD UTILITIES, UTILITY POLE
D DRAINAGE PIPE, CATCH BASIN, END SECTION
S SANITARY PIPE, MANHOLE
FM FORCEMAIN
PROPOSED BUILDING
G GV GM GAS LINE/ VALVE/ METER
T TELCO VAULT TELCO LINE/ PEDESTAL/ HANDHOLE/ MANHOLE/ VAULT
EM E ELEC VAULT E TRANS ELEC METER/ LINE/ HANDHOLE/ MANHOLE/ VAULT/ TRANSFORMER
HYD WV W W W WATER LINE/ HYDRANT/ VALVE/ WELL/ VAULT
C CABLE VAULT CABLE/ PEDESTAL/ HANDHOLE/ VAULT
F FIBER VAULT FIBER PEDESTAL/ HANDHOLE/ VAULT
U.G. UNDERGROUND UTILITIES
E & T ELECTRIC & TELEPHONE
SETBACK
C.O. TR MH CLEANOUT, TRAFFIC MANHOLE, MANHOLE
INLET PROTECTION
LIGHT POLE/ WALL PACK
MAILBOX, POST, BOLLARD
BORE/ TEST PIT, DIRECTIONAL FLOW ARROW, FLAGGING
GPS, SIGN

LEGEND

SURVEY DATA

1. FIELD VISIT WAS COMPLETED BY GZA ON 11/20/2018.
2. EXISTING FEATURES AND TOPOGRAPHY SHOWN HEREON PER AERIAL IMAGERY AND FIELDWORK PERFORMED BY ERDMAN ANTHONY DATED JANUARY, 2019, REFERENCING FIELDBOOK #2018-06 PG. 64.
3. NORTH ORIENTATION AND COORDINATES SHOWN REFERENCE NYSP, CENTRAL ZONE NAD83 (2011) BASED ON GPS OBSERVATIONS TAKEN AT TIME OF SURVEY. EXPRESSED IN US FEET.
4. ELEVATIONS SHOWN REFERENCE NAVD88, BASED ON GPS OBSERVATIONS TAKEN AT TIME OF SURVEY. EXPRESSED IN US SURVEY FEET.
5. UTILITIES SHOWN BASED ON SURFACE EVIDENCE GATHERED AT THE TIME OF SURVEY.
6. REFERENCE MADE TO MAP FILED IN THE TOMPKINS COUNTY CLERK'S OFFICE 8/6/2004, (REFERENCING DRAWER MKR, 100). THIS MAP PREPARED FOR MORTGAGE PURPOSES AND COVERS JUST A PORTION OF THE PARENT PARCEL.
7. RIGHT OF WAY AND PROPERTY LINES SHOWN HEREON BASED ON RECOVERED EVIDENCE AND RECORD INFORMATION ONLY AND ARE APPROXIMATE. NO BOUNDARY SERVICES PERFORMED.
8. ADJOINING PROPERTY INFORMATION SHOWN IS BASED ON TAX RECORDS ONLY.

NOTE:
THE LOCATION, SIZES, AND ELEVATIONS OF EXISTING UTILITIES ARE BASED ON INFORMATION COMPILED BY THE ENGINEER FROM FIELD WORK, RECORD DRAWINGS AND INFORMATION FURNISHED BY VARIOUS UTILITY COMPANIES WITH FIELD EDITING WHERE NECESSARY AND POSSIBLE. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND SHALL BE VERIFIED BY THE CONTRACTOR.

REFERENCES:

1. SURVEY MAP FILED IN THE TOMPKINS COUNTY CLERK'S OFFICE (DRAWER MKR, 100).
2. SURVEY MAP FILED IN THE TOMPKINS COUNTY CLERK'S OFFICE #2017-12398.
3. CERTAIN DEEDS LISTED HEREON.

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NO.	ISSUE/DESCRIPTION	BY	DATE
2	TOWER HEIGHT	CJM	05/06/2019
1	ADDED EXISTING HOUSE	CJM	04/18/2019

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STATE OF NEW YORK
BARRY A. KLEFTA
069425
Licensed Professional Engineer

SITE NAME:
BROOKTONDALE
SITE NUMBER: 10141753

PROJECT ADDRESS:
340 BALD HILL ROAD
BROOKTONDALE, NEW YORK 14817

PROJECT TYPE: NSB

SITE PLAN

DESIGNED BY: CJM	CHECKED BY: EKR	REVISION: 2
DRAWN BY: CJM	SCALE: 1" = 40'	DWG CA100
PROJECT NO. 31.0180225.13	DATE: 03/15/2019	SHEET NO. 02 OF 08

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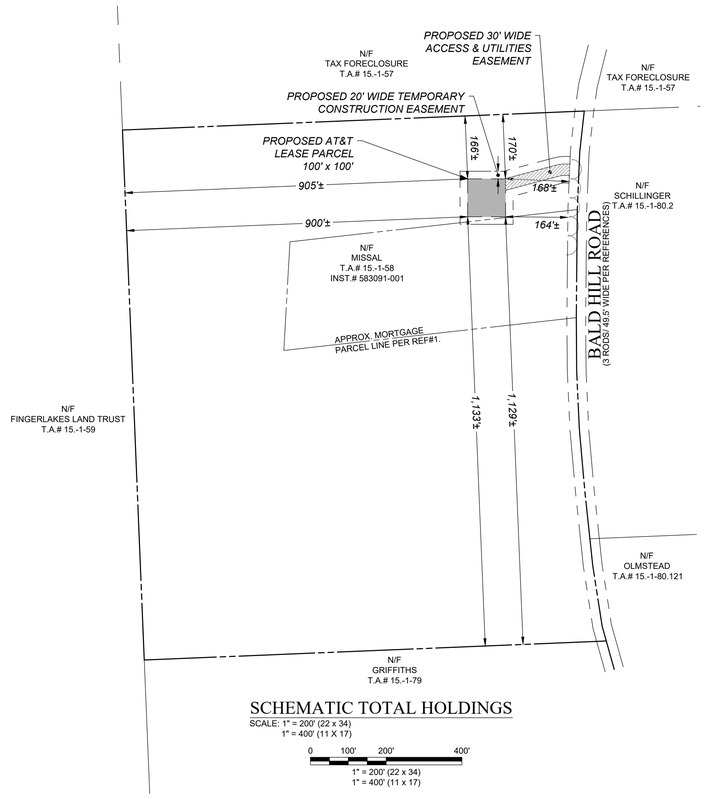
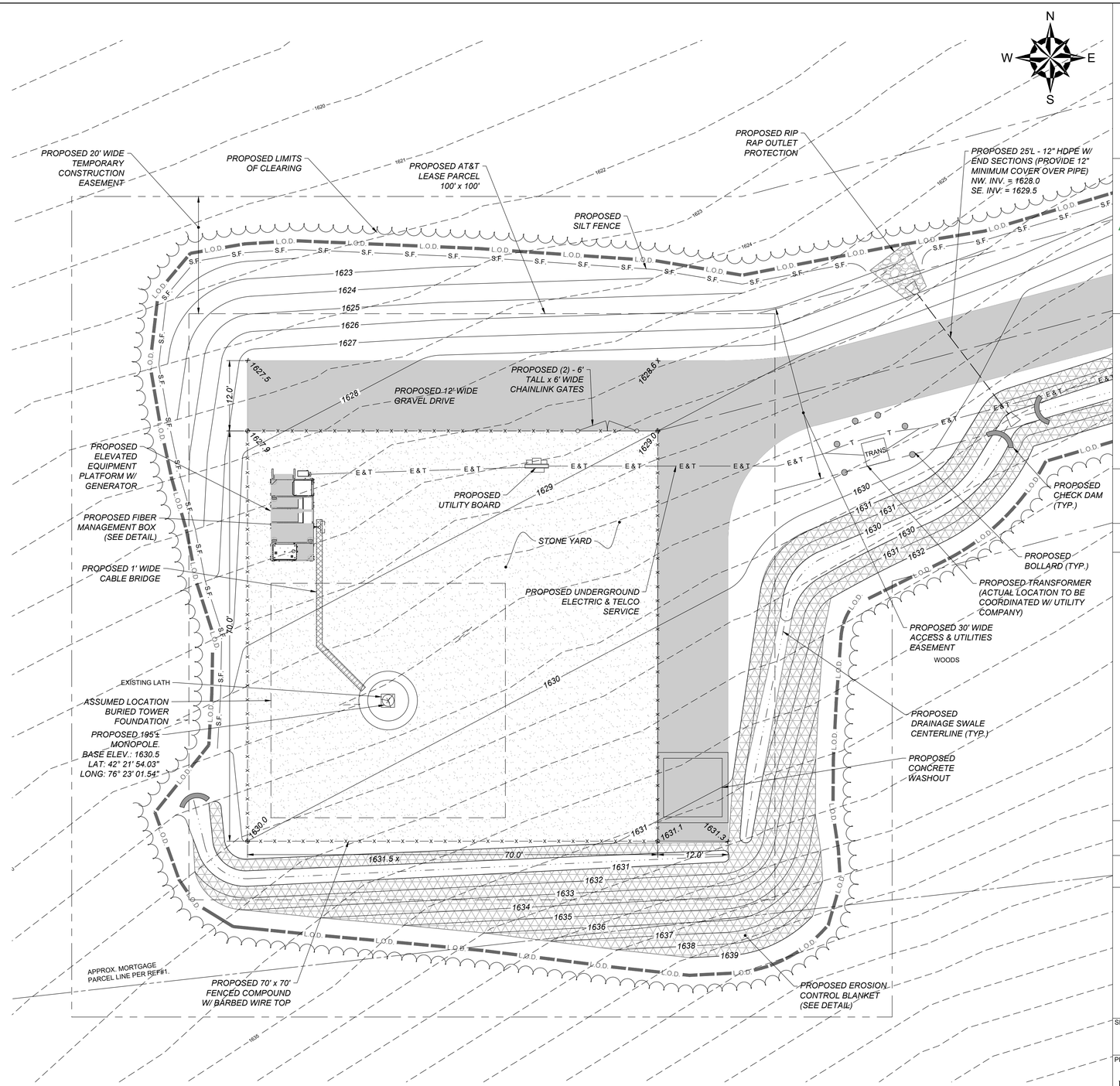


SCHEMATIC TOTAL HOLDINGS

SCALE: 1" = 200' (22 x 34)
1" = 400' (11 X 17)

0 100' 200' 400'

1" = 200' (22 x 34)
1" = 400' (11 x 17)



DETAILED SITE PLAN

SCALE: 1" = 10' (22 x 34)
1" = 20' (11 x 17)

0 5 10 20

1" = 10 (22 x 34)
1" = 20 (11 x 17)

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NO.	ISSUE/DESCRIPTION	BY	DATE
1	TOWER HEIGHT	CJM	05/06/2019

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STATE OF NEW YORK
BARTA KLETT
LICENSED 069423
Professional Engineer

SITE NAME:
BROOKTONDALE
SITE NUMBER: 10141753

PROJECT ADDRESS:
340 BALD HILL ROAD
BROOKTONDALE, NEW YORK 14817

PROJECT TYPE: NSB

DETAILED SITE PLAN

DESIGNED BY: CJM	CHECKED BY: EKR	REVISION: 1
DRAWN BY: CJM	SCALE: AS NOTED	DWG CA110
PROJECT NO. 31.0180225.13	DATE: 03/15/2019	SHEET NO. 03 OF 08

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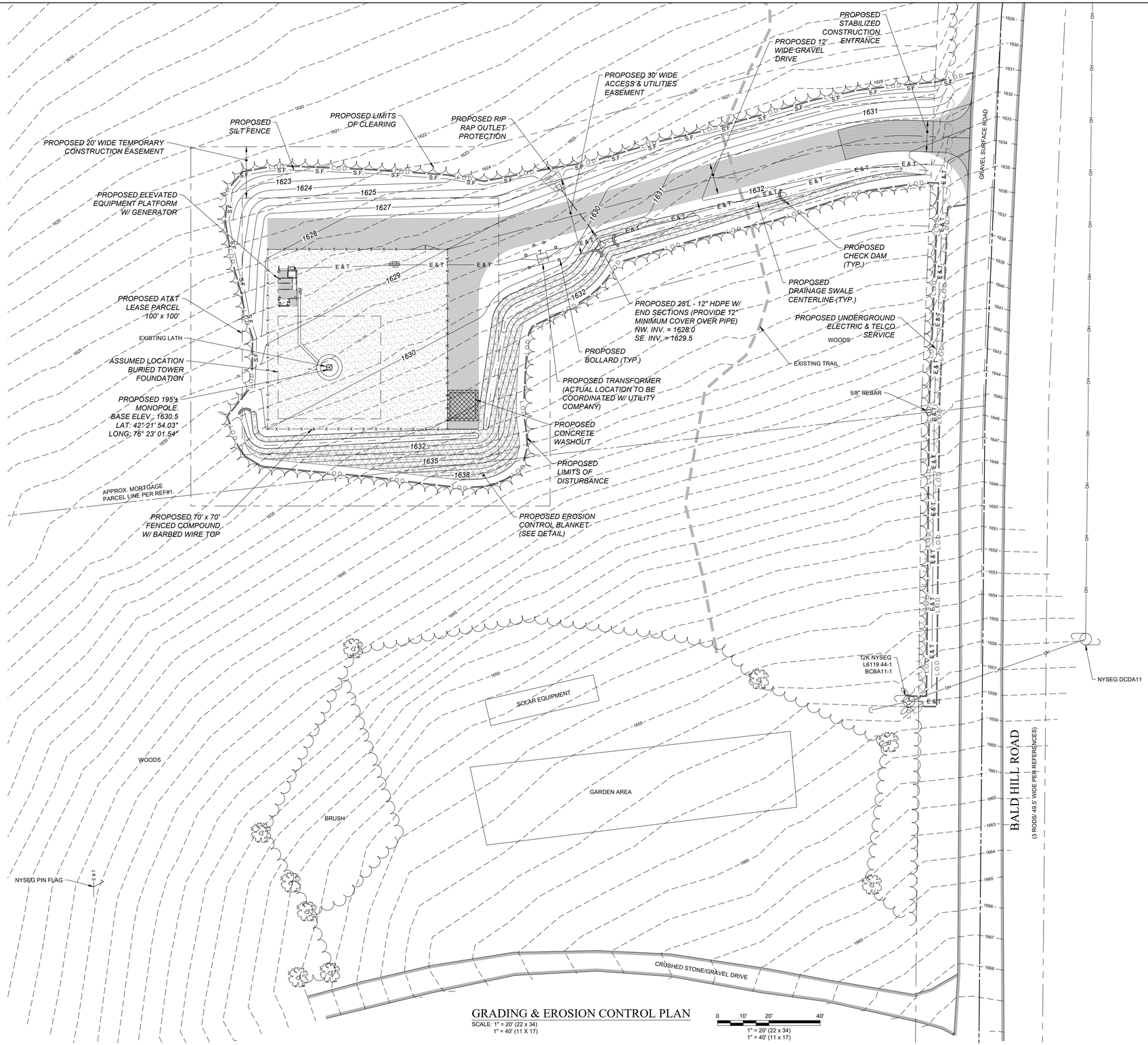

GRADING & EROSION CONTROL PLAN

SCALE: 1" = 20' (22 x 34)
1" = 40' (11 X 17)

0 10' 20' 40'
1" = 20' (22 x 34)
1" = 40' (11 x 17)

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NO.	ISSUE/DESCRIPTION	BY	DATE
1	TOWER HEIGHT	CJM	05/06/2019

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BART A. KLETT
Licensed No. 069423
Professional Engineer

SITE NAME:
BROOKTONDALE
SITE NUMBER: 10141753

PROJECT ADDRESS:
340 BALD HILL ROAD
BROOKTONDALE, NEW YORK 14817

PROJECT TYPE: NSB

GRADING & EROSION CONTROL PLAN

DESIGNED BY: CJM	CHECKED BY: EKR	REVISION: 1
DRAWN BY: CJM	SCALE: 1" = 20'	DWG CA130
PROJECT NO. 31.0180225.13	DATE: 03/15/2019	SHEET NO. 04 OF 08

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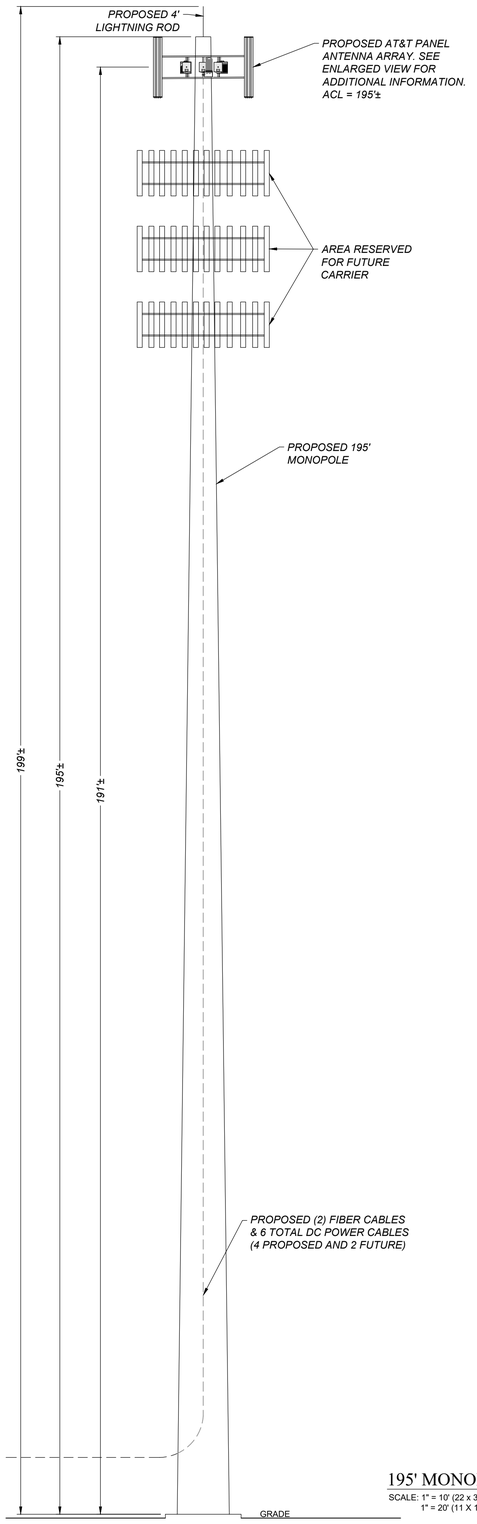
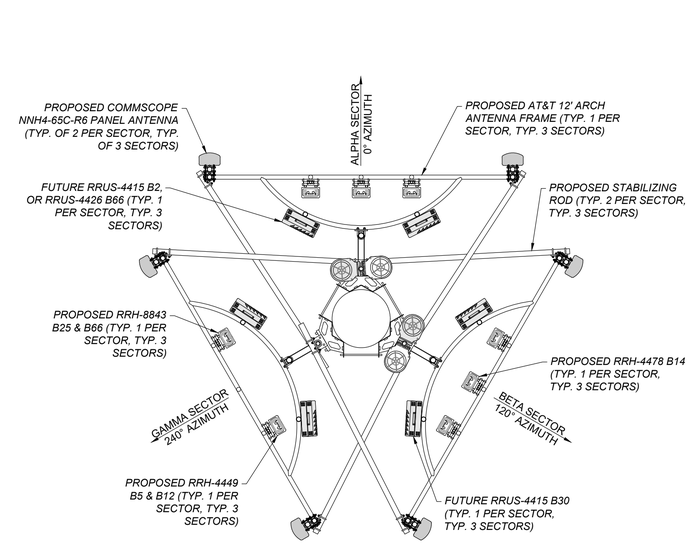


195' MONOPOLE

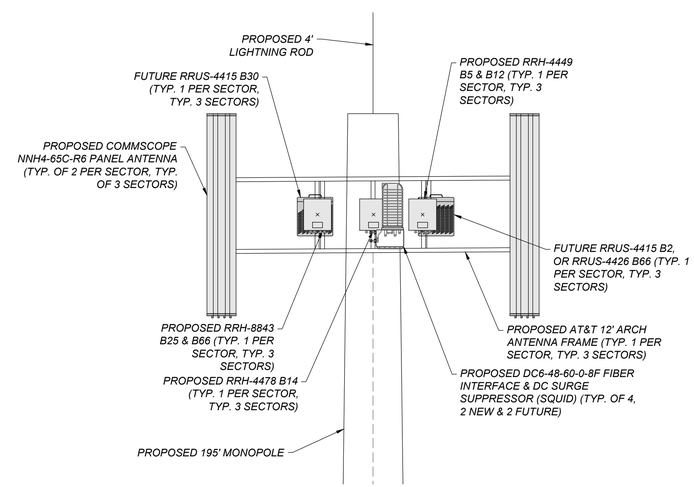
SCALE: 1" = 10' (22 x 34)
1" = 20' (11 X 17)

0 5 10 20
1" = 10 (22 x 34)
1" = 20 (11 x 17)



PROPOSED ANTENNA CONFIGURATION

SCALE: 1" = 3' (22 x 34)
1" = 6' (11 X 17)



ENLARGED ANTENNA VIEW

SCALE: 1" = 3' (22 x 34)
1" = 6' (11 X 17)

0 1.5 3 6
1" = 3 (22 x 34)
1" = 6 (11 x 17)

PROPOSED ANTENNA CONFIGURATION

SECTOR	ANTENNA	ANTENNA CL HEIGHT	AZIMUTH	RRUS/ RRH	CABLE LENGTH	CABLE TYPE
ALPHA	(1) NNH4-65C-R6 (P) (1) NNH4-65C-R6 (P)	191'±	0°	PROPOSED: (1) RRH-4478 B14, (1) RRH-4415, (1) RRH-4449 B5/ 12, RRH-8843 B2/ 66 FUTURE: (1) RRUS-4415 B30, (1) RRUS-4415 B2 OR RRUS-4426 B66	255'±	FIBER
BETA	(1) NNH4-65C-R6 (P) (1) NNH4-65C-R6 (P)	191'±	120°	PROPOSED: (1) RRH-4478 B14, (1) RRH-4415, (1) RRH-4449 B5/ 12, RRH-8843 B2/ 66 FUTURE: (1) RRUS-4415 B30, (1) RRUS-4415 B2 OR RRUS-4426 B66	255'±	FIBER
GAMMA	(1) NNH4-65C-R6 (P) (1) NNH4-65C-R6 (P)	191'±	240°	PROPOSED: (1) RRH-4478 B14, (1) RRH-4415, (1) RRH-4449 B5/ 12, RRH-8843 B2/ 66 FUTURE: (1) RRUS-4415 B30, (1) RRUS-4415 B2 OR RRUS-4426 B66	255'±	FIBER

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NO.	ISSUE/DESCRIPTION	BY	DATE
1	FUTURE CARRIERS/ TOWER HEIGHT	CJM	05/06/2019

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STATE OF NEW YORK
BART A. KLETTKE
069425
Professional Engineer

SITE NAME:
BROOKTONDALE
SITE NUMBER: 10141753

PROJECT ADDRESS:
340 BALD HILL ROAD
BROOKTONDALE, NEW YORK 14817

PROJECT TYPE: NSB

TOWER ELEVATION, NOTES & DETAILS

DESIGNED BY: CJM	CHECKED BY: EKR	REVISION: 1
DRAWN BY: CJM	SCALE: AS NOTED	DWG CA500
PROJECT NO. 31.0180225.13	DATE: 03/15/2019	SHEET NO. 05 OF 08

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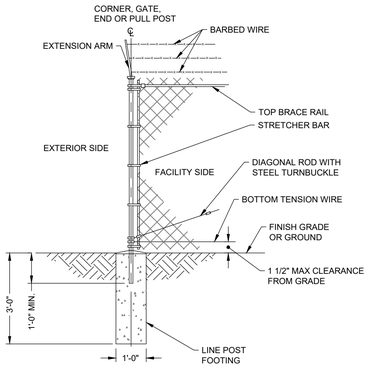
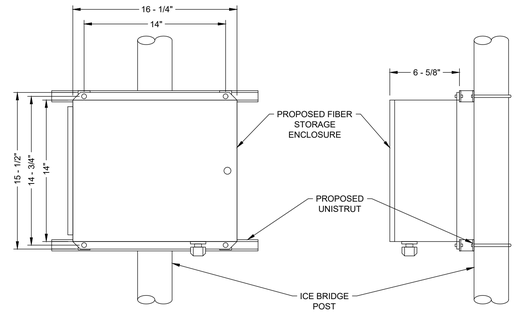


TYPICAL FENCE & CORNER POST DETAIL

NOT TO SCALE



FIBER MANAGEMENT BOX DETAIL

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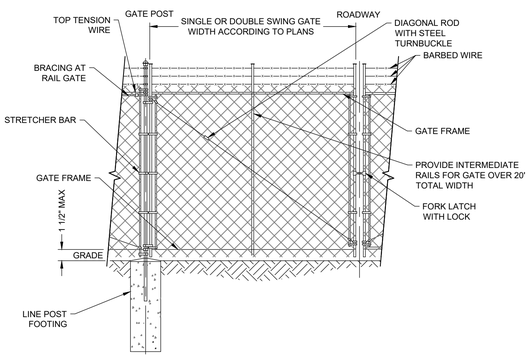


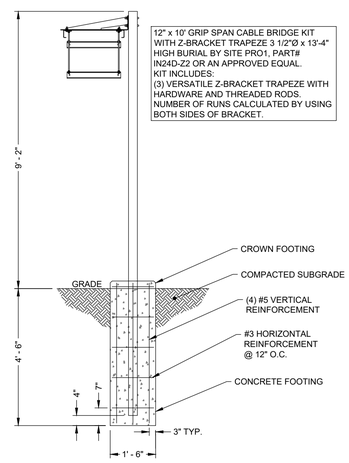
TYPICAL FENCE & GATE DETAIL

NOT TO SCALE

CHAINLINK FENCE NOTES:

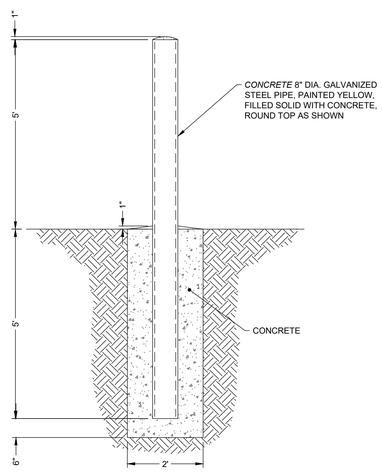
1. INSTALL FENCING PER ASTM F-567, SWING GATES PER ASTM F-900. GATE POST, CORNER, TERMINAL, OR PULL POST 2- 1/2" SCHEDULE 40 FOR GATE WIDTH UP THROUGH 6' OR 12' FOR DOUBLE-SWING GATES PER ASTM-F1083.
2. LINE POST: 2" SCHEDULE 40 PIPE PER ASTM-F1083.
3. GATE FRAME; 1-1/2"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
4. TOP AND BRACE RAILS: 1-1/2"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
5. FABRIC: 12 GAGE CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
6. TIE WIRE: MINIMUM 11 GAGE GALVANIZED STEEL AT POSTS AND RAILS BY A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG RINGS SPACED AT 24" INTERVALS MAXIMUM.
7. TENSION WIRE: 7 GAGE GALVANIZED STEEL.
8. GATE LATCH: DROP DOWN LOCKABLE FORKLATCH AND LOCK.
9. SITE PLAN AND FENCE DETAILS FOR FENCE HEIGHT DIMENSION.

CHAINLINK FENCE NOTES



CABLE BRIDGE SECTION DETAIL

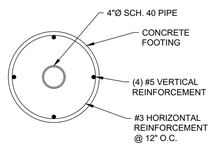
NOT TO SCALE



NOTE:
CONCRETE TO BE
3500 PSI MINIMUM

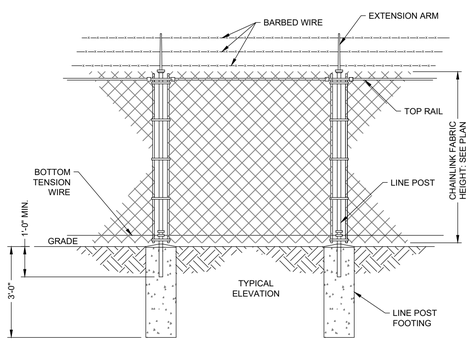
TYPICAL BOLLARD DETAIL

NOT TO SCALE



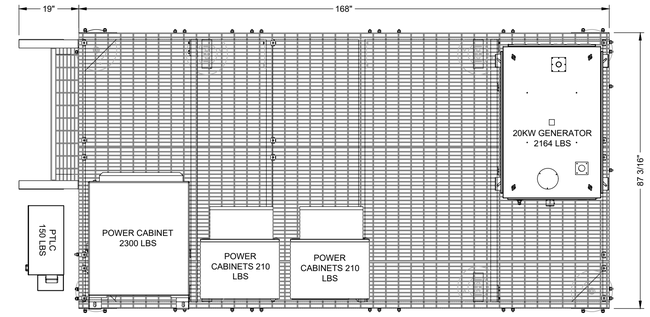
CONCRETE PIER DETAIL

NOT TO SCALE

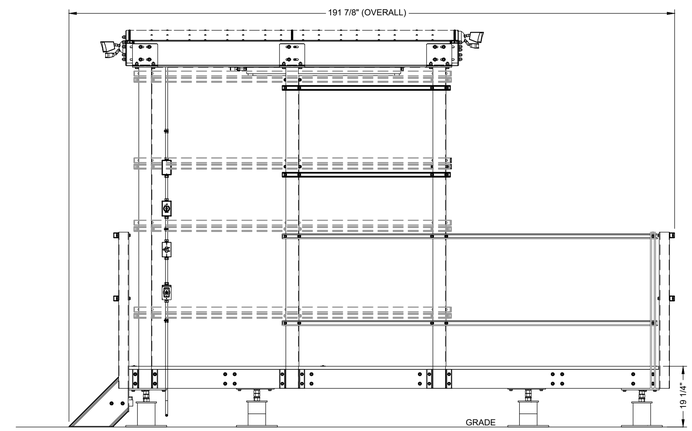


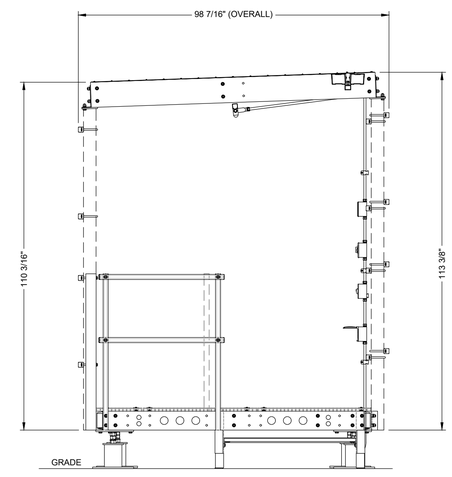
TYPICAL FENCE DETAIL

NOT TO SCALE



CANOPY REMOVED





EQUIPMENT PLATFORM DETAILS

SCALE: 1" = 2' (22 x 34)
1" = 4' (11 X 17)

0 1 2 4
1" = 2' (22 x 34)
1" = 4' (11 x 17)

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AIROSMITH DEVELOPMENT

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1-518-350-4060

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NO.	ISSUE/DESCRIPTION	BY	DATE

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SITE NAME:
BROOKTONDALE
SITE NUMBER: 10141753

PROJECT ADDRESS:
340 BALD HILL ROAD
BROOKTONDALE, NEW YORK 14817

PROJECT TYPE: NSB

DETAILS

DESIGNED BY: CJM	CHECKED BY: EKR	REVISION: 0
DRAWN BY: CJM	SCALE: AS NOTED	DWG CA501
PROJECT NO. 31.0180225.13	DATE: 03/15/2019	SHEET NO. 06 OF 08

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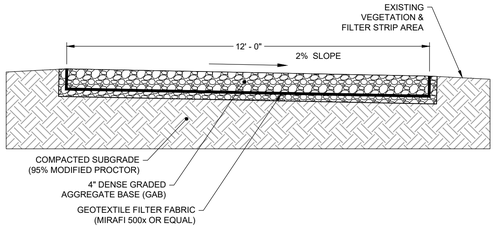
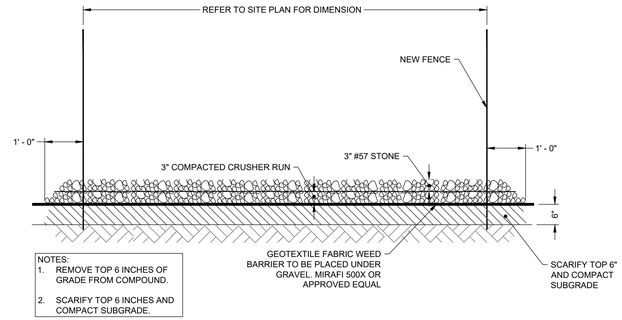


NOTES:

1. STONE SHALL BE COMPACTED 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM-D-1557.
2. PRIOR TO LAYING THE STONE. THE ACCESS ROAD SHALL BE CLEARED OF ALL ORGANIC MATTER, STERILIZED WITH WEED KILLER AND THEN TREATED WITH HERBICIDE.
3. A MINIMUM TURNING RADIUS OF THE ACCESS ROADWAY SHALL BE 55 DEGREES FOR THE SHELTER DELIVERY.
4. THE MAXIMUM LONGITUDINAL SLOPE OF THE ACCESS ROAD SHALL NOT EXCEED 10%.
5. THE CONTRACTOR, AT MINIMUM, MUST REMOVE OR TRIM ALL TREES THAT ARE WITHIN 3 FEET OF THE ACCESS ROAD ON BOTH SIDES.

GRAVEL ACCESS DRIVE DETAIL

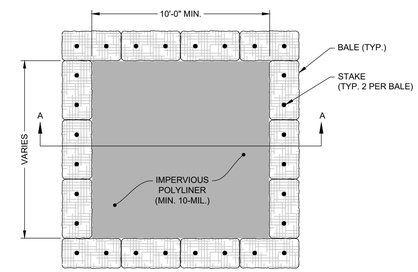
NOT TO SCALE



NOTES:
1. REMOVE TOP 6 INCHES OF GRADE FROM COMPOUND.
2. SCARIFY TOP 6 INCHES AND COMPACT SUBGRADE.

SITE COMPOUND GRAVEL DETAIL

NOT TO SCALE

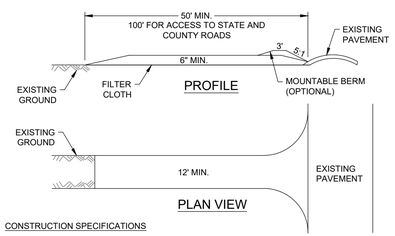


PLAN VIEW

NOT TO SCALE

CONCRETE WASHOUT AREA

(TYP. "ABOVE GRADE" WITH BALES)



PROFILE

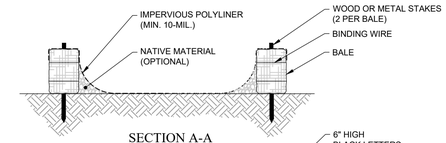
PLAN VIEW

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN FIFTY (50) FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A THIRTY (30) FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRACKING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

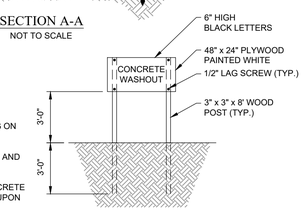
STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



SECTION A-A

NOT TO SCALE

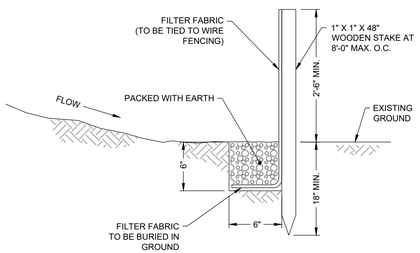


NOTES:

1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
2. KEEP AS FAR FROM DRAINAGE CHANNELS AND WETLAND AREAS AS PRACTICAL.
3. SUMPS TO BE CLEANED AND WASTE CONCRETE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF WORK.

CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

NOT TO SCALE



SILT FENCE DETAIL

NOT TO SCALE

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STATE OF NEW YORK · BARTA KLETTER · No. 069423 · Licensed Professional Engineer

SITE NAME:
BROOKTONDALE
SITE NUMBER: 10141753

PROJECT ADDRESS:
340 BALD HILL ROAD
BROOKTONDALE, NEW YORK 14817

PROJECT TYPE: NSB

EROSION & SEDIMENT CONTROL DETAILS

DESIGNED BY: CJM	CHECKED BY: EKR	REVISION: 0
DRAWN BY: CJM	SCALE: NONE	DWG CA502
PROJECT NO. 31.0180225.13	DATE: 03/15/2019	SHEET NO. 07 OF 08

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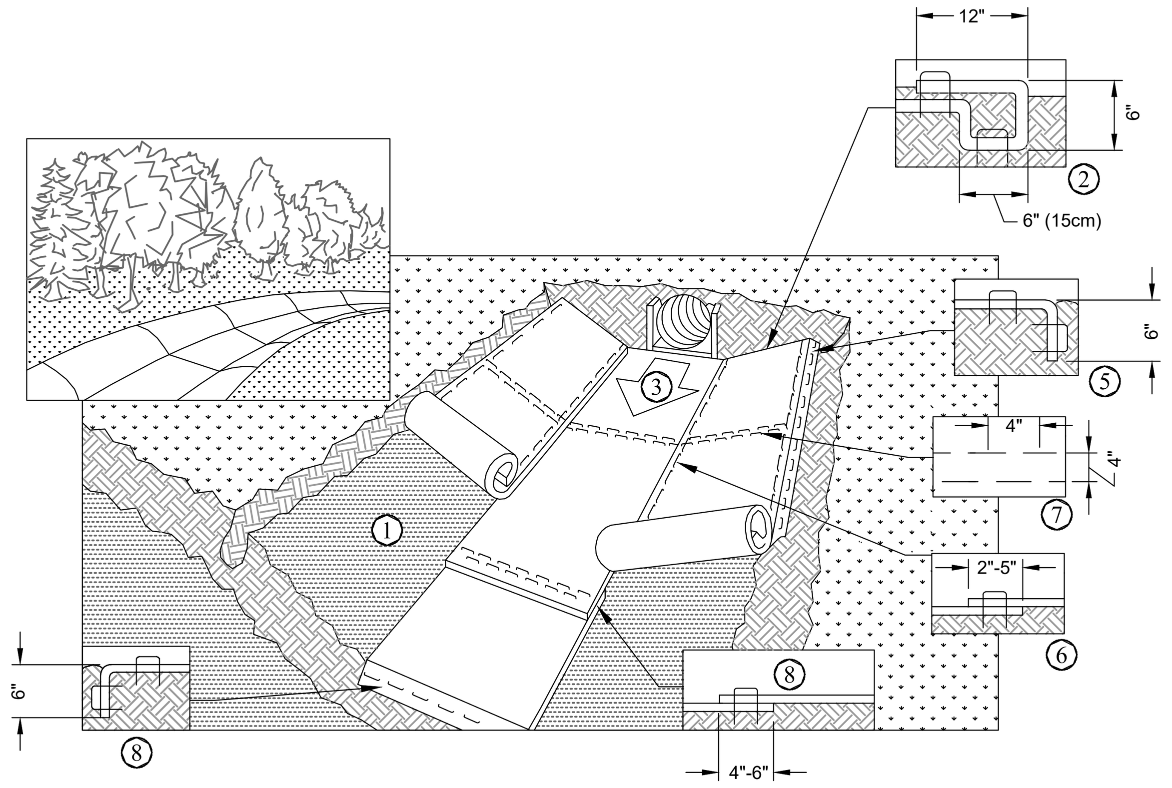
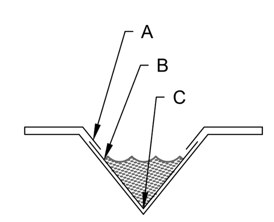




CRITICAL POINTS:

A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTES:

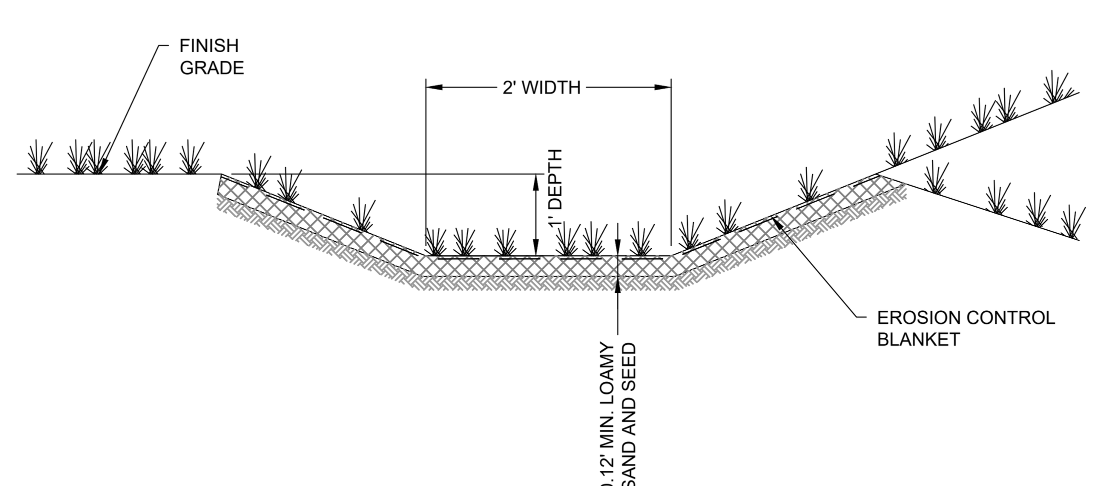
1. PRODUCT TO BE NORTH AMERICAN GREEN EROSION CONTROL BLANKET OR APPROVED EQUAL.
2. HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
3. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLES OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

INSTALLATION NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's). INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP's IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE(tm). WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE RECP's END OVER END (SHINGLE STYLE) WITHA 4" - 6" (10cm -15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE RECP's.
5. FULL LENGTH EDGE OF RECP's AT TOP OF SIDE SLOPES MUST BE ANCHORED WOTH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP x 4" (10cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT RECP's MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5cm - 12.5cm) (DEPENDING ON RECP'S TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9M - 12M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE RECP's MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

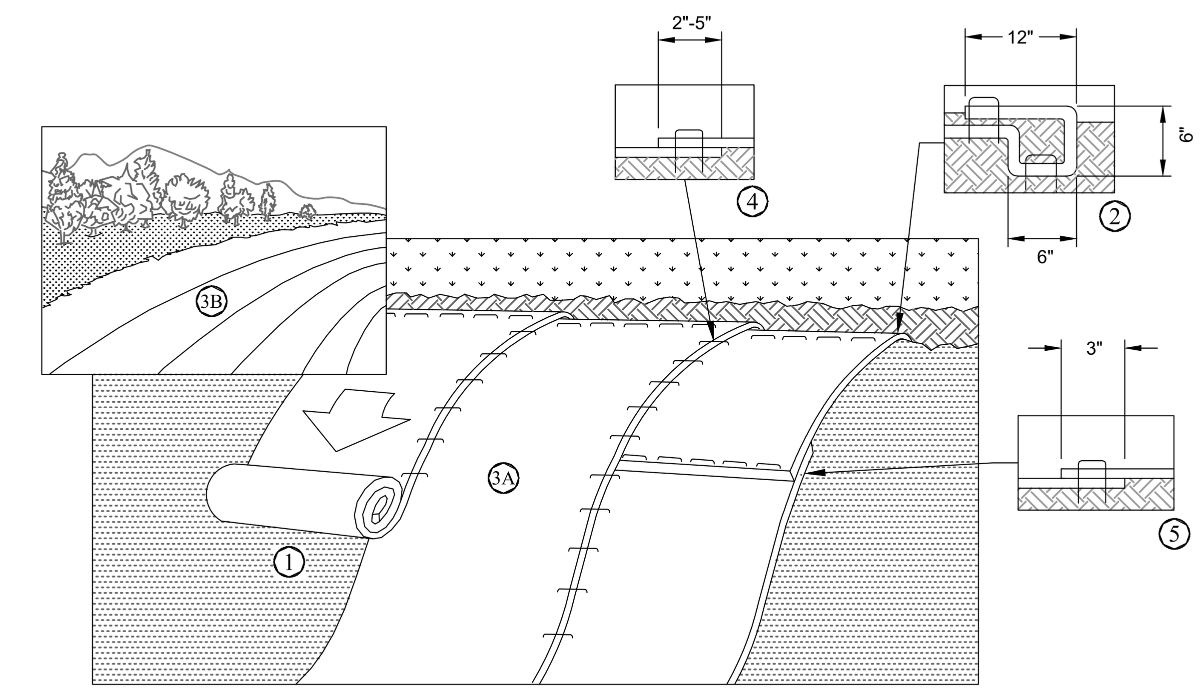
SWALE INSTALLATION DETAIL OF EROSION CONTROL BLANKET

NOT TO SCALE



DRAINAGE SWALE AND LINED DITCH

NOT TO SCALE



NOTES:

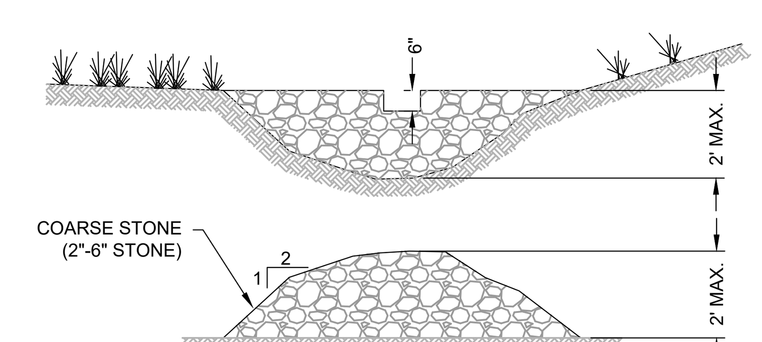
1. PRODUCT TO BE NORTH AMERICAN GREEN EROSION CONTROL BLANKET OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLES OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

INSTALLATION NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's). INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE(tm). WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm - 12.5cm) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE RECP's WIDTH.

SLOPE INSTALLATION DETAIL OF EROSION CONTROL BLANKET

NOT TO SCALE

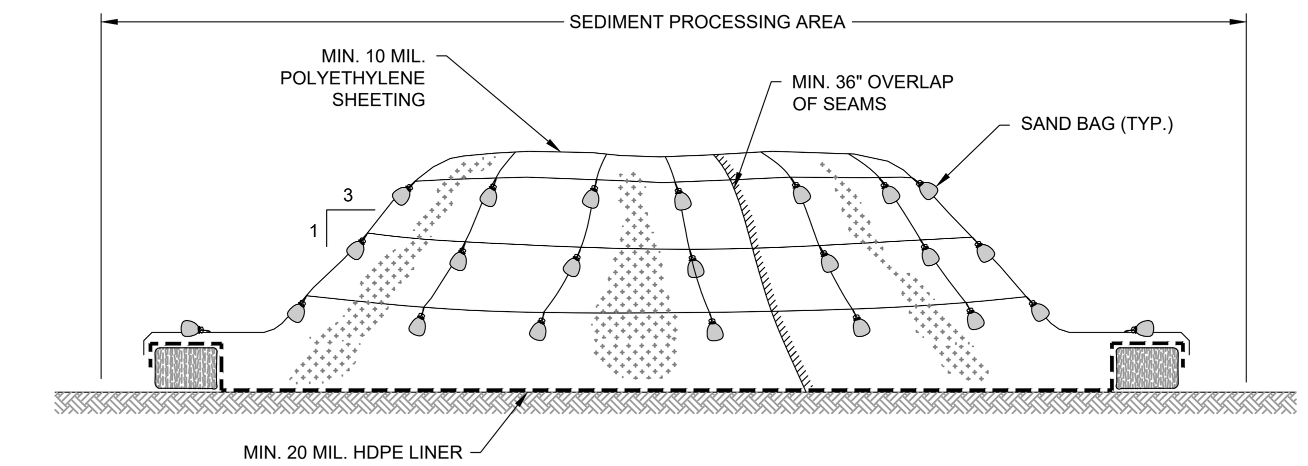


NOTES:

1. USE CHECK DAMS TO SLOW WATER FLOWS AND AS SMALL SEDIMENT TRAPS IN DITCHES AND ALONG ACCESS ROADS.
2. CLEAN SEDIMENT AND REPLACE DAMS AS NECESSARY.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 6" LOWER THAN THE OUTER EDGES.
4. MAX. SPACING: TOE OF THE UPSTREAM DAM IS SAME ELEVATION AS TOP OF DOWNSTREAM DAM.
5. TO BE LOCATED AS DETERMINED BY NATIONAL GRID ENVIRONMENTAL.
6. STONE SHALL BE FREE OF FINE PARTICLES TO PREVENT TURBO DISCHARGES.

STONE CHECK DAMS

NOT TO SCALE

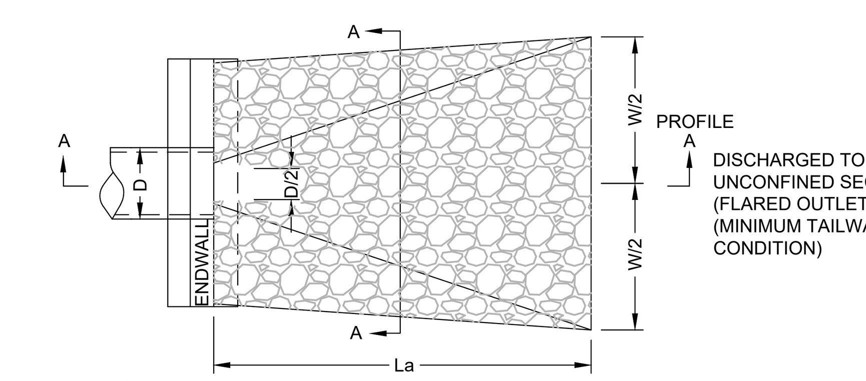


NOTES:

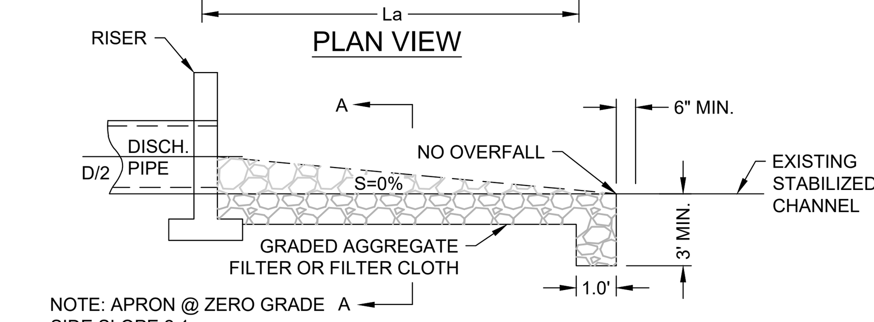
1. STOCKPILES SHALL BE PLACED ON MINIMUM 20 MIL HDPE LINER.
2. STOCKPILES SHALL BE COVERED WITH MINIMUM 10 MIL POLYETHYLENE SHEETING WHENEVER LOADING, STABILIZATION, OR PLACEMENT IS NOT OCCURING.
3. STOCKPILE AREAS SHALL BE SUBJECT TO DUST / ODOR CONTROLS WHENEVER LOADING, STABILIZATION, OR PLACEMENT IS OCCURING AND AS DIRECTED BY ENGINEER. STOCKPILES SHALL BE COVERED WITH POLYETHYLENE WHEN THESE ACTIVITIES ARE NOT BEING PERFORMED.
4. SHEETING COVERING STOCKPILE SHALL BE MAINTAINED TIGHTLY IN PLACE BY USING SAND BAGS ON ROPES WITH A MAXIMUM 10'-0" GRID SPACING IN ALL DIMENSIONS.
5. MINIMUM 36" OVERLAP OF ALL SEAMS REQUIRED.
6. STOCKPILE SIDE SLOPES SHALL BE NO STEEPER THAN 3 (HORIZONTAL) TO 1 (VERTICAL).
7. CONTRACTOR SHALL PLACE STRAW BALE BERMS AS SHOWN ON THE DETAIL ABOVE AROUND STOCKPILES GENERATED OUTSIDE OF THE SEDIMENT PROCESSING AREA. STRAW BALE BERMS, AS SHOWN ON THE DETAIL, ARE NOT REQUIRED FOR STOCKPILES IN THE SEDIMENT PROCESSING AREA.

TYPICAL STOCKPILE DETAIL

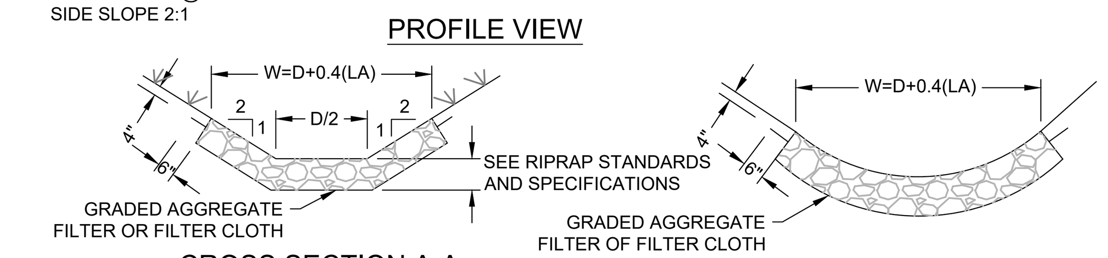
NOT TO SCALE



PLAN VIEW



PROFILE VIEW



CROSS SECTION A-A

OPTIONAL CROSS SECTION A-A

CONSTRUCTION SPECIFICATIONS

1. THE SUBGRADE FOR THE RIPRAP OUTLET, SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES. ANY FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
2. THE ROCK OR GRAVEL SHALL CONFORM TO THE SPECIFIED GRADING LIMITS RESPECTIVELY IN THE RIPRAP OR FILTER.
3. FILTER CLOTH SHALL BE PROTECTED FROM PUNCHING, CUTTING, OR TEARING. ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF CLOTH OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE CLOTH. ALL OVERLAPS, WHETHER FOR REPAIRS OR FOR JOINING TWO PIECES OF CLOTH SHALL BE A MINIMUM OF ONE FOOT.
4. ROCK FOR THE RIPRAP OUTLETS MAY BE PLACED BY EQUIPMENT. BOTH SHALL EACH BE CONSTRUCTED TO THE FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. THE ROCK FOR RIPRAP OUTLETS SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENOUS WITH THE SMALLER ROCKS AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER ROCKS. RIPRAP SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE FILTER BLANKET OR CLOTH. HAND PLACEMENT WILL BE REQUIRED TO THE EXTEND NECESSARY TO PREVENT DAMAGE TO THE PERMANENT WORKS.
5. RIPRAP SHALL BE COMPOSED OF A WELL-GRADED MIXTURE OF ROCK SIZE SO THAT 50 PERCENT OF THE PIECES, BY WEIGHT, SHALL BE LARGER THAN THE D50 SIZE. THE DIAMETER OF THE LARGEST ROCK SIZE SHALL BE 1.5 TIMES THE D50 SIZE.
6. THE MINIMUM THICKNESS OF THE RIPRAP LAYER SHALL BE 1.5 TIMES THE MAXIMUM ROCK DIAMETER FOR D50 OF 15 INCHES OR LESS; AND 1.2 TIMES THE ROCK SIZE FOR D50 GREATER THAN 15 INCHES.

RIPRAP OUTLET PROTECTION

NOT TO SCALE

at&t

AT&T MOBILITY CORP.
5841 BRIDGE STREET
EAST SYRACUSE, NEW YORK 13057

AIROSMITH DEVELOPMENT

32 CLINTON STREET
SARATOGA SPRINGS, NEW YORK 12866
1-518-350-4060

GZA

GZA GeoEnvironmental of NY
Engineers and Scientists
www.gza.com

6296 FLY ROAD
EAST SYRACUSE, NEW YORK 13057
315-800-1800

NO.	ISSUE/DESCRIPTION	BY	DATE

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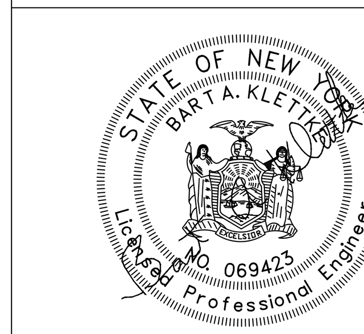

SITE NAME:
BROOKTONDALE
SITE NUMBER: 10141753

PROJECT ADDRESS:
340 BALD HILL ROAD
BROOKTONDALE, NEW YORK 14817

PROJECT TYPE: NSB

EROSION & SEDIMENT CONTROL DETAILS

DESIGNED BY: CJM	CHECKED BY: EKR	REVISION: 0
DRAWN BY: CJM	SCALE: NONE	DWG CA503
PROJECT NO. 31.0180225.13	DATE: 03/15/2019	SHEET NO. 08 OF 08

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