GRAVEL BASE NYSEG THRESHOLD CORNER & END POSTS. ATTACH TO POSTS AT 15" 3 HINGES PER 6 FEET OF HEIGHT, NON-LIFT TYPE, 2" DIAMOND MESH CHAIN-LINK WOVEN FROM #9 ALUMINIZED OR GALVANIZED STEEL WIRE EXTENSION ARMS - GALVANIZED STEEL WITH WEATHER CAP. EXTENDING OUT AT 45° WITH FABRIC FASTENED TO ALL POSTS (15" O.C. MAX.), RAILS & DIAGONAL BRACE - 1 5/8" TUBING FABRIC TENSION BARS AT ALL GATES, CORNER, END, GATE, AND PULL POSTS SEE LINE, GATE, END, & CORNER POST HORIZ. BRACE - 1 5/8" 3/16" X BOTTOM RAIL - 1 5/8" TAMPER PROOF HINGES (TYP.);

CONCRETE FOOTING DETAIL 4" FABRIC TENSION BAR ON GALV. STEEL 8'-0" FENCE HEIGHT 1'-0" TOP RAIL - 1 5/8" SCH. 40 180° OPENING 1'-0" BOLTS AND HINGES SHALL BE OF A TAMPER-PROOF TYPE. CONSTRUCTION BID PURPOSES. GATE - 6" N.P.S. SCH. 40 PROVIDE WARNING SIGNS AS DIRECTED FROM #9 ALUMINIZED OR GALV. STEEL WIRE 2" DIAMOND MESH CHAIN-LINK WOVEN BY" followed by their signature and date SUBSTATION GATE CONCRETE THRESHOLD DETAIL It is a violation of New York Education INSULATION SECTIONS 1137-A AND 1137-B TO ALTER ANY BUILDING OR LANDMARK, OR REPAIR OR ALTER ANY BUILDING OR LANDMARK IN ANY WAY.  IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR IS ALTERED; THE ALTERING ARCHITECT, ENGINEER OR LAND SURVEYOR IS RESPONSIBLE FOR DETERMINING QUANTITIES REQUIRED FOR CONSTRUCTION BID PURPOSES. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL FENCE AND GATE REQUIREMENTS.

MANAGEMENT PURPOSE ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING QUANTITIES REQUIRED FOR ALL ITEMS SHALL BE GALVANIZED AND ZINC COATED TO ASTM SPECIFICATIONS, INCLUDING ALL POSTS, RAILS, GATE FRAME - MIN. 2" GALV. STEEL BRACES (24" O.C. MAX.), WITH GALVANIZED METAL CLIPS. Diagonal tension bar is 2" aluminized steel. All grade 60 rebar. 2" MINIMUM COVER ALL GRADE 60 REBAR. CHAMFER ALL EXPOSED EDGES 1".

CONCRETE FOR THRESHOLD MAY BE PRE-CAST OR CAST IN PLACE. WHEN INSTALLING POSTS IN LEDGE, CORE AND GROUT POSTS IN BACKFILL FINAL 2 FEET WITH NATIVE SOIL. BACKFILL 4 FEET WITH CONCRETE. POST HOLE DEPTH SHALL BE INCREASED TO 6 FEET. When installing posts in clay:

BACKFILL 4 FEET WITH CONCRETE. POST HOLE DEPTH SHALL BE INCREASED TO 6 FEET. WHEN INSTALLING POSTS IN CLAY:

NOMINAL SIZES IN ACCORDANCE WITH ASTM F 1043, GALVANIZED STEEL PIPE. UNLESS OTHERWISE INDICATED, FENCE POST SIZES ARE INDUSTRY STANDARD ACCORDANCE WITH PROJECT SPECIFICATIONS. ALL CONCRETE SHALL BE SINGLE POUR TO FINAL GRADE.
It is a violation of New York Education Law to alter an item in any way. If an item bearing the signature of a licensed architect, professional engineer, or land surveyor is altered; the altering architect, professional engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of alteration.

| PIPE CONNECTION OPENINGS SHALL BE A MINIMUM OF 6-INCHES |
| PROVIDE TWO COATS OF BITUMASTIC COATING ON INTERIOR AND EXTERIOR SURFACES. |

**NOTES:**
1. PROVIDE SEPARATE BACKFILL FOR UTILITIES TO A MINIMUM DEPTH OF 4'-6".
2. EXTEND SELECT GRANULAR FILL, COMPACTED ON-SITE NATURAL SOILS OR IMPORTED SELECT GRANULAR, IN MAXIMUM 6" LIFTS.
3. MATERIAL INSTALLED & BEDDING AND BACKFILL COMPACTED IN MAXIMUM 6" LIFTS.
4. COMPACT ON-SITE NATURAL SOILS AND SELECT GRANULAR BACKFILL IN LIFTS NOT TO EXCEED 6".
5. PROVIDE RUBBER GASKETS FOR ALL RISER JOINTS, CONFORMING TO MANUFACTURER.
6. PROVIDE RUBBER GASKETS FOR ALL RISER JOINTS, CONFORMING TO MANUFACTURER.
7. PIPE CONNECTION OPENINGS SMALLER THAN 6-INCHES SHALL BE CORED IN PLACE.
8. ALL PIPE CONNECTIONS 6-INCH AND LARGER SHALL RECEIVE A COMPRESSIVE STRENGTH OF 4,000 PSI.
9. THE FIELD AND FILLED WITH EPOXY MORTAR TO MAKE A WATER TIGHT CONNECTION.
10. VERIFY ANTI-BOUYANCY. PROVIDE A MINIMUM FACTOR OF SAFETY OF 2.0 WITH GROUNDWATER AT THE SURFACE.

**SHEET 3 OF 3**

**FILE:** 2150058.161

**DESCRIPTION**

**OCTOBER 2018**

**AVANGRID ENGINEERING**

**CONFIDENTIAL, PROPRIETARY and TRADE SECRET INFORMATION**

**REV. 0**