



**HARPER
ENGINEERING, INC.**
TELECOM GROUP

815 Superior Ave. Suite 1514
Cleveland, OH. 44114

Phone: (216)344-3855
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DRAWING REVISIONS

Rev.	Description:	Date:	Mgr.
A	For Approval	05/23/14	DWH
0	For Construction	05/29/14	DWH
1	For Construction	06/24/14	DWH



Engineer's Seal

VERIZON
SITE NUMBER:
CLMBO12

DUBLIN

7697 AVERY ROAD
DUBLIN, OH 43017

SHEET NAME:

**ELEVATION
& ANTENNA
LAYOUTS**

SHEET No./Rev.:

A-1/1

SCALE: AS NOTED

DRAN BY: MLM

CHK'D BY: DLX

DATE: 05/01/14

FILE: 9-151-119

SEQUENCE OF OPERATION:

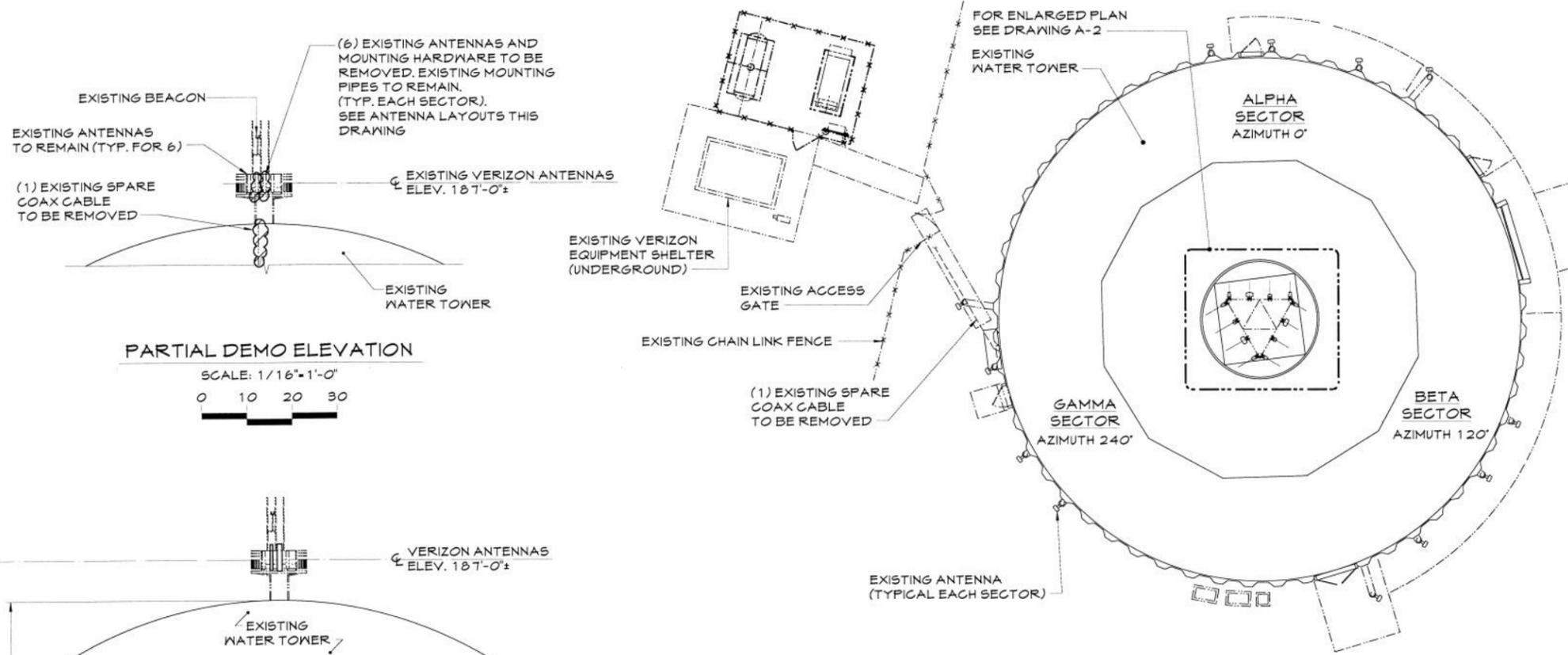
- 1) REMOVE (6) EXISTING ANTENNAS AT ELEVATION 187'-0"±.
- 2) REMOVE (1) EXISTING SPARE COAX CABLE & BOOT ASSEMBLY
- 3) INSTALL (6) NEW ANTENNAS AT ELEVATION 187'-0"±.
- 4) CONTRACTOR TO INSTALL (1) NEW BOOT ASSEMBLY IN EXISTING COAX ENTRY PANEL AS SHOWN ON DRAWING A-2
- 5) INSTALL (1) OVP DISTRIBUTION BOX ON EXISTING MOUNTING FRAME AT ELEV. 187'-0"±.
- 6) INSTALL (3) RRH BEHIND ANTENNAS ON EXISTING MOUNTING PIPES AT ELEVATION 187'-0"±.
- 7) RETURN ALL REMOVED EQUIPMENT TO VERIZON.

NOTES:

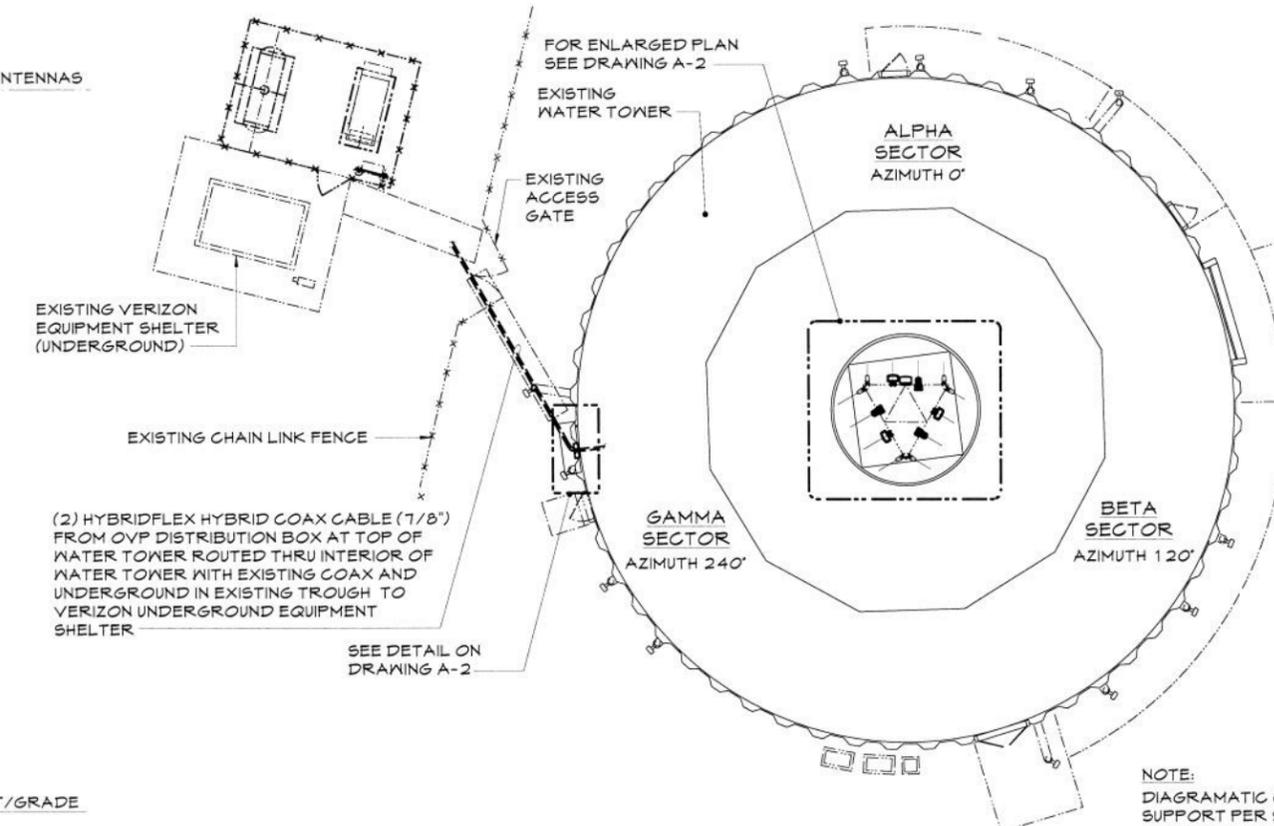
- 1) INSTALL (2) HYBRIDFLEX HYBRID COAX CABLES (1/8") TO OVP DISTRIBUTION BOX ON WATER TOWER. FOLLOW EXISTING COAX CABLE ROUTING.
- 2) NO ELECTRICAL WORK REQUIRED FOR THIS INSTALLATION. NO NEW VOLTAGE REQUIRED.

ANTENNA REPLACEMENT NOTES:

- 1) CONTRACTOR TO INSPECT THE CONDITION OF EXISTING MOUNTING PIPES. CONFIRM THE FOLLOWING:
 - CORROSION; IF MOUNTS ARE FOUND TO BE CORRODED, CONTACT VERIZON REP. FOR DIRECTION.
 - CHECK CONDITION OF ATTACHMENT BOLTS. IF FOUND LOOSE, TIGHTEN TO ORIGINAL SPECIFICATIONS (AISC; TURN OF THE NUT METHOD).
 - IF BOLTS ARE MISSING, REPLACE TO SUITE.
 - CONFIRM MOUNTING PIPE IS ADEQUATELY SIZED TO ACCOMMODATE PROPOSED ANTENNA INSTALL.
- 2) ALL WORK DEPICTED ON THIS DRAWING DESIGNED IN ACCORDANCE WITH OBC 2011, AND AMENDMENTS.

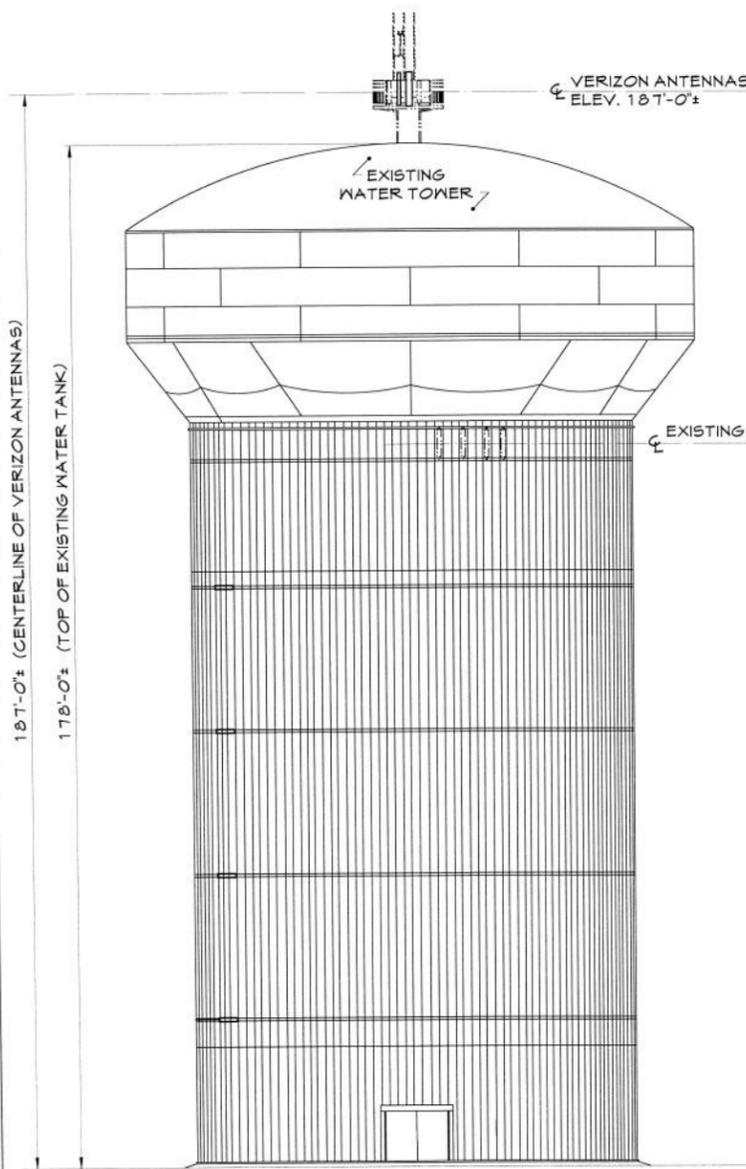


**EXISTING ANTENNA
LAYOUT @ ELEV. 187'-0"**
SCALE: NONE



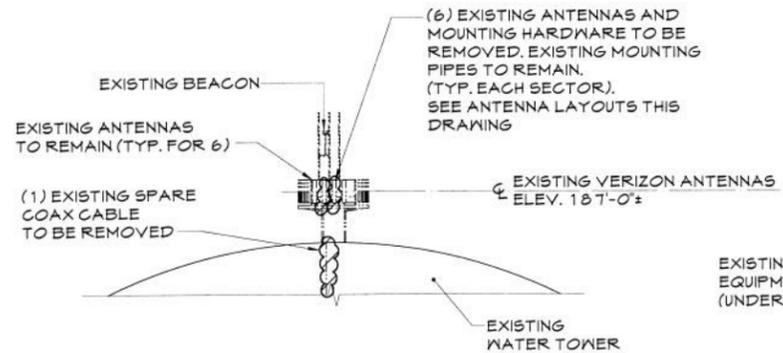
**NEW ANTENNA
LAYOUT @ ELEV. 187'-0"**
SCALE: NONE

NOTE:
DIAGRAMATIC ONLY, ANTENNA
SUPPORT PER STRUCTURE
MANUFACTURER AND STRUCTURAL
ANALYSIS.



ELEVATION
SCALE: 1/16"=1'-0"
0 10 20 30

187'-0"± (CENTERLINE OF VERIZON ANTENNAS)
178'-0"± (TOP OF EXISTING WATER TANK)



PARTIAL DEMO ELEVATION
SCALE: 1/16"=1'-0"
0 10 20 30



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VERIZON
SITE NUMBER:
CLMBO 12

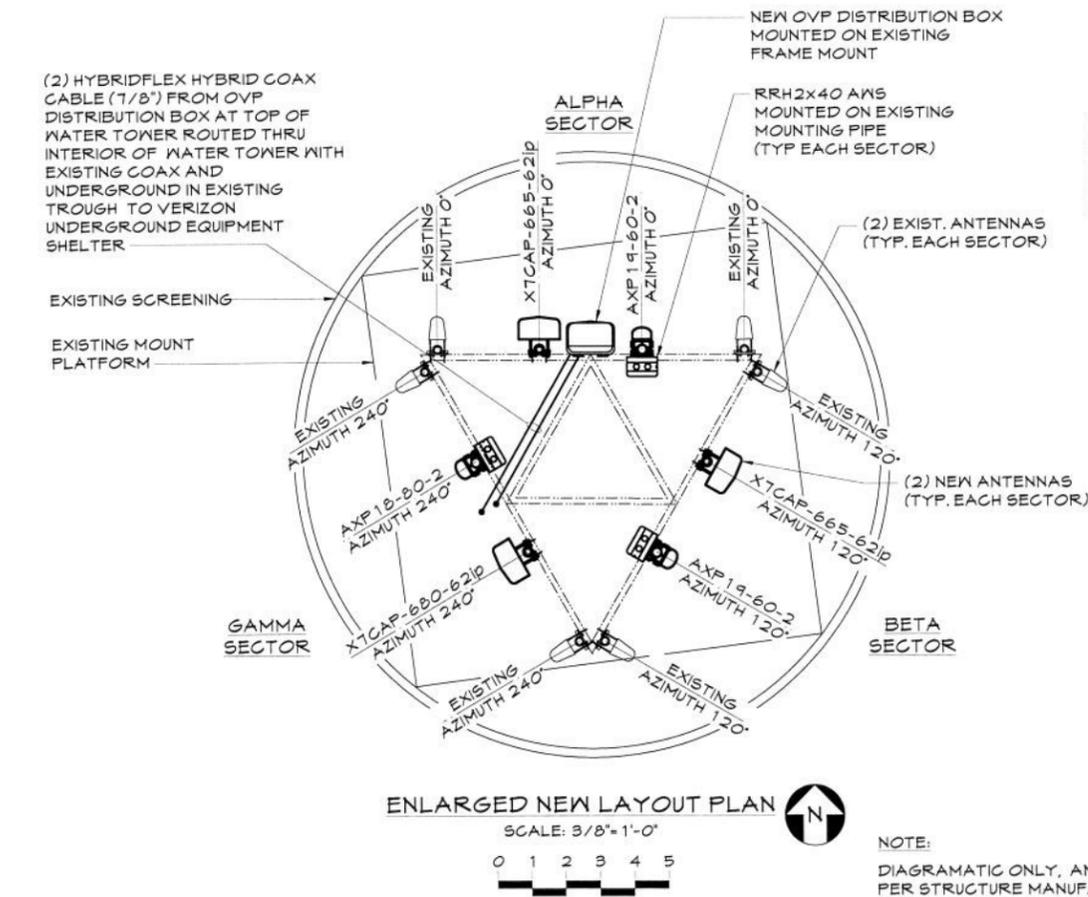
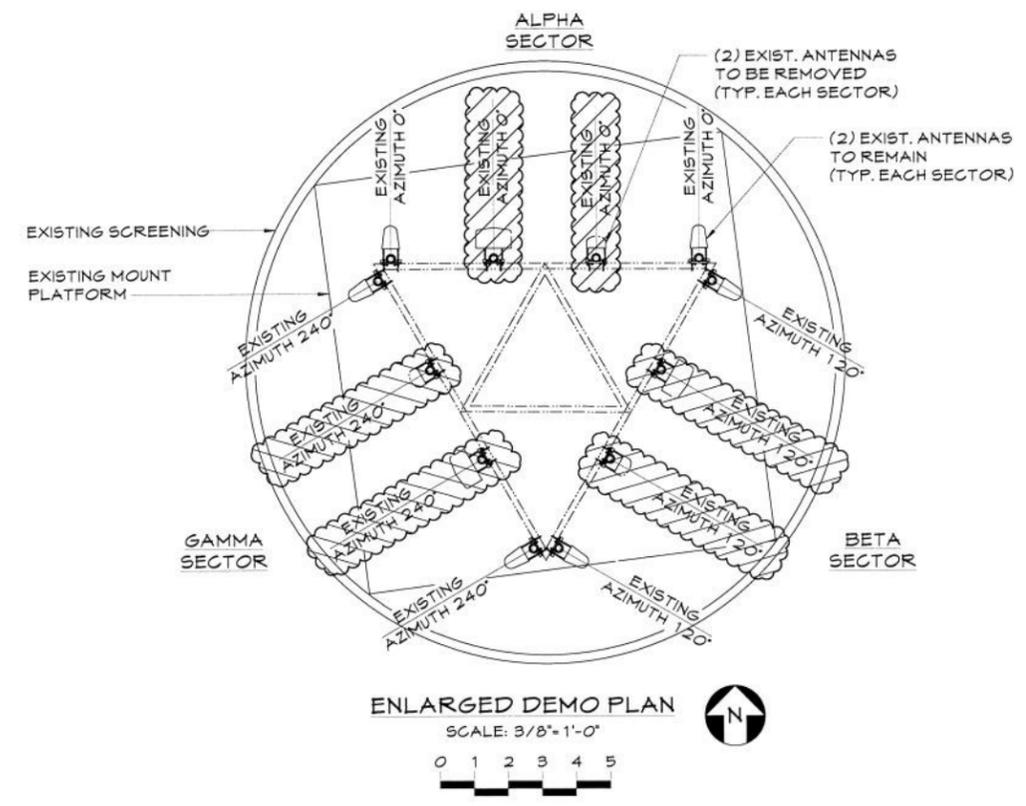
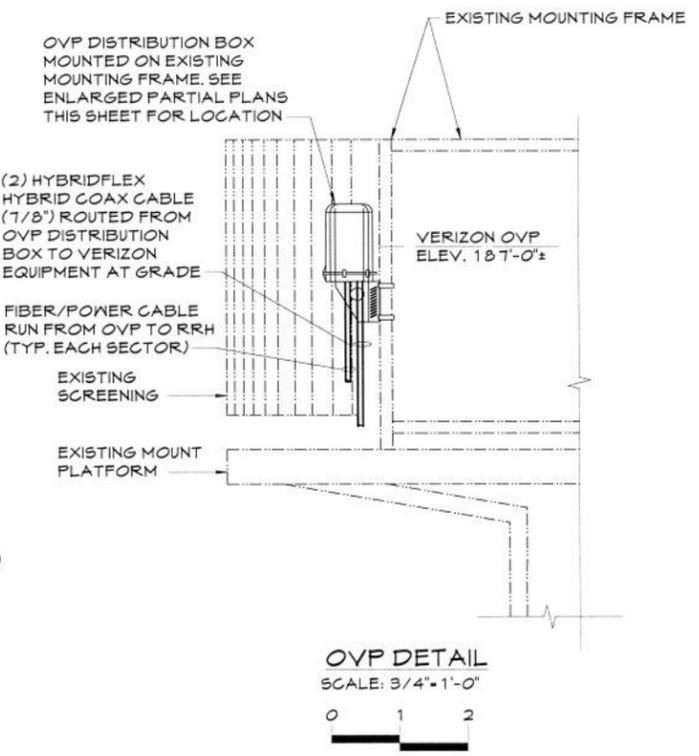
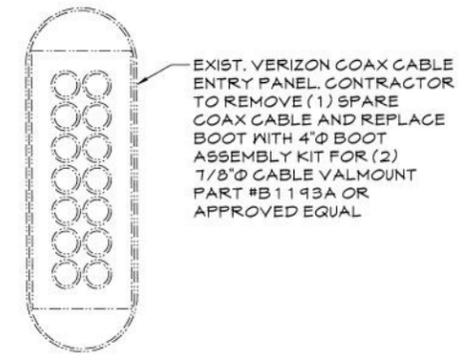
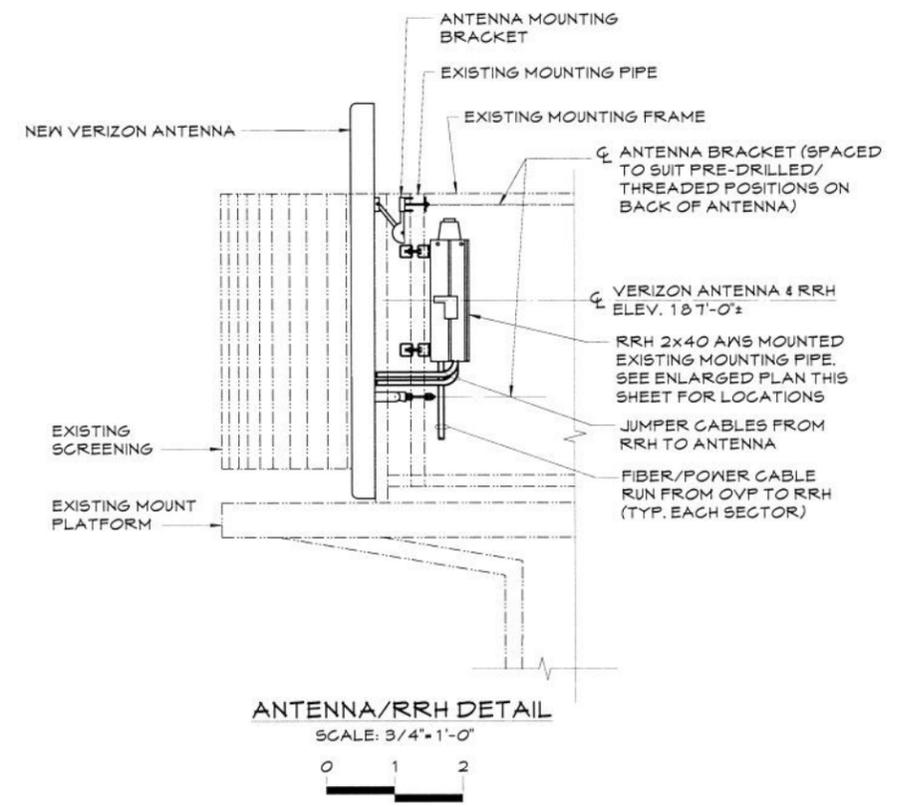
DUBLIN

7697 AVERY ROAD
DUBLIN, OH 43017

ANTENNA LAYOUTS & DETAILS

SHEET No./Rev.: **A-2/1**
SCALE: AS NOTED
DRWN. BY: MLM
CHK'D. BY: DLW
DATE: 05/01/14
FILE: 9-151-719

NOTES:
1. FOR SEQUENCE OF OPERATION, NOTES AND ANTENNA REPLACEMENT NOTES SEE DWG. A-1.



NOTE:
DIAGRAMATIC ONLY. ANTENNA SUPPORT PER STRUCTURE MANUFACTURER AND STRUCTURAL ANALYSIS.