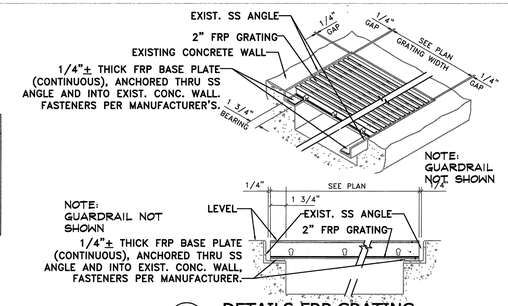
NOTE:

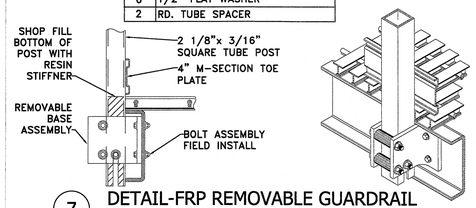
1. INSTALL TOP OF FRP GRATING IN LEVEL WITH TOP OF EXISTING CONCRETE WALL.
2. VERIFY IN FIELD AND BRING TO ATTENTION OF ARCHITECT/ENGINEER ANY DISCREPANCY IN DIMENSION OR EXISTING CONDITIONS, PRIOR TO ORDERING MATERIALS.



8 DETAILS-FRP GRATING

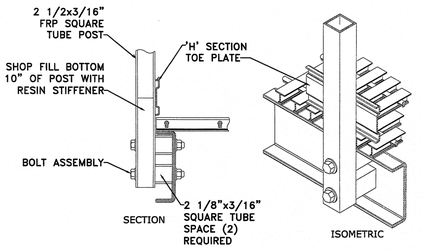
SCALE: 1 1/2"=1'-0"

REMOVABLE BASE COMPONENTS	
QTY.	DESCRIPTION
1	1/2" THICK HLU ANGLE – LEFT
1	1/2" THICK HLU ANGLE – RIGHT
3	1/2"Rx4" Lg. HEX HD. BOLT
3	1/2" HEX NUT
6	1/2" FLAT WASHER
2	RD. TUBE SPACER



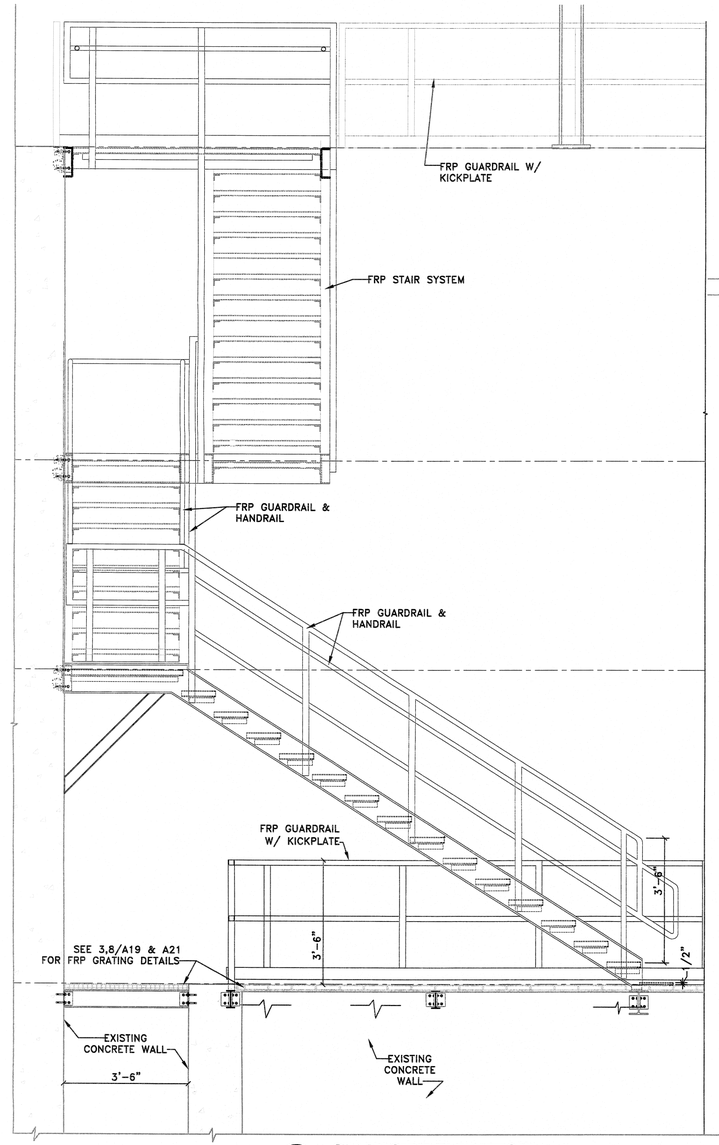
7 DETAIL-FRP REMOVABLE GUARDRAIL

SCALE: 1 1/2"=1'-0"



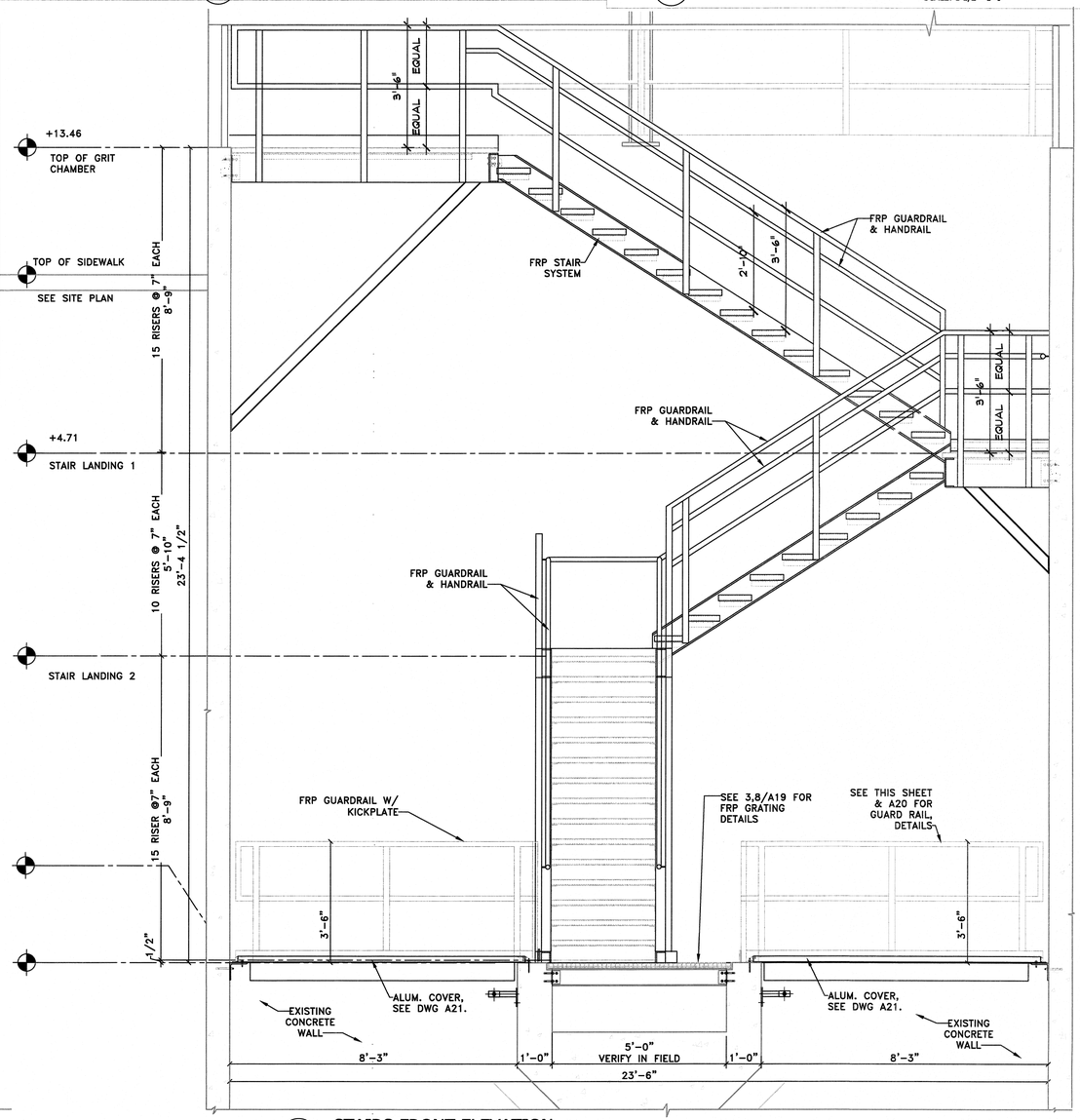
6 DETAIL-FRP GUARDRAIL

SCALE: 1 1/2"=1'-0"



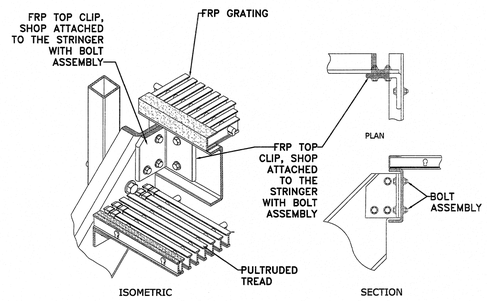
1 STAIR-SIDE ELEVATION

SCALE: 3/4"=1'-0"



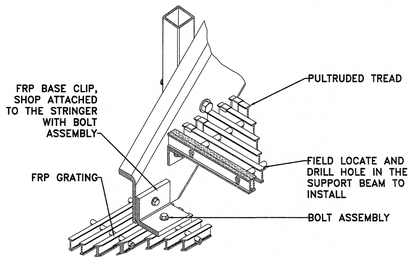
2 STAIRS-FRONT ELEVATION

SCALE: 1 1/2"=1'-0"



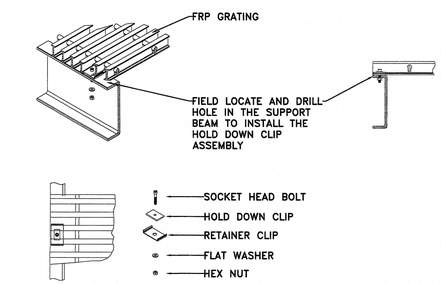
5 DETAIL-FRP STAIR CONNECTION AT TOP

SCALE: 1 1/2"=1'-0"



4 DETAIL-FRP STAIR CONNECTION AT BASE

SCALE: 1 1/2"=1'-0"



3 DETAIL-FRP GRATING

SCALE: 1 1/2"=1'-0"

APPROVED: 4/13/17

Richard A. Alaimo
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 13195

REVISIONS	DATE	BY
1. GENERAL	4/13/17	DJS

RICHARD A. ALAIMO ENGINEERING COMPANY
Consulting Engineers
NJDCA 24GA27988800
200 HIGH STREET, MOUNT HOLLY, N.J.
2 MARKET STREET, PATERSON, N.J.

GRIT CHAMBER UPGRADE

GRIT CHAMBER
FRP STAIRS & GRATING DETAILS

SCALE: AS NOTED

CLIENT: WOODBRIDGE TOWNSHIP

PROJECT LOCATION: WOODBRIDGE TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

PROJECT NO.: B-0726-0023-000

CONTRACT NO.: 1230

DATE: APRIL 2017
DESIGNED BY: AA
DRAWN BY: AA
CHECKED BY:
DEPT. HEAD:

SHEET: A19

FILE NO.:

Plotted: 4/13/2017 4:45 PM Last saved: 4/12/2017 4:45 PM File Name: K:\Projects\B0726002300\Drawings\Eqp-A19 _stair_details.dwg