



BILL OF MATERIAL

MARK	QTY	DESCRIPTION	FT	IN	REMARKS
DSHRU1	2	DIKE STAIRWAY #1 HANDRAIL UNIT-OUTSIDE			
15PS1	2	1 1/2" SCH. 40 PIPE	2	10 3/8"	
15PS2	2	1 1/2" SCH. 40 PIPE	2	10 1/4"	
15PS3	4	1 1/2" SCH. 40 PIPE	2	10 1/2"	
15PL1	10	#3/8" x 5 1/2"	0	5 1/2"	
15HR1	2	1 1/2" SCH. 40 PIPE	21	0 5/8"	BENT
15HR2	2	1 1/2" SCH. 40 PIPE	2	7 3/4"	
15HR3	2	1 1/2" SCH. 40 PIPE	3	11 1/8"	
15HR4	4	1 1/2" SCH. 40 PIPE	4	7 1/2"	
1	40	1/2" x 4" LG. EXPANSION ANCHOR (GALV.)			
DSHRU1	2	DIKE STAIRWAY #1 HANDRAIL UNIT-INSIDE			
15PS2	6	1 1/2" SCH. 40 PIPE	2	10 3/8"	
15PL1	6	#3/8" x 5 1/2"	0	5 1/2"	
15HR4	2	1 1/2" SCH. 40 PIPE	14	4	BENT
15HR5	4	1 1/2" SCH. 40 PIPE	3	11 1/8"	
1	24	1/2" x 4" LG. EXPANSION ANCHOR (GALV.)			

DATE:	
REV:	
REVISION DESCRIPTION:	
ENGINEER'S STAMP:	

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DRAWN: A-LANDT
DESIGNED: A-LANDT
CLIENT: 02/15/16
DATE: AS NOTED
SCALE: AS NOTED

- NOTES:**
- 1 POSITION HANDRAIL POST DRAIN HOLE TOWARDS CENTERLINE OF CONCRETE DIKE STAIRWAY
 - 2 SEE DRAWING 216 FOR DSHRU1 DIKE STAIRWAY #1 HANDRAIL UNIT-INSIDE FABRICATION DETAILS

MATERIAL, COATING & FABRICATION SPECIFICATIONS

MATERIALS & FABRICATION	COATINGS
ALL TUBE SECTIONS: A500 GRADE B	HANDRAIL UNIT SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123
ALL PIPES: A53, GR. B, SCH. 40	
WIDE FLANGES, PLATES & BARS: A36	
ALL OTHER STEEL: A36	
WELDED, HEADED ANCHOR STUDS: A108	
HEADED ANCHOR BOLTS: A307	
INDOOR ANCHOR BOLTS: A307	
OUTDOOR ANCHOR BOLTS: A123, GALV.	
ALL WELDING: AWS D1.1	
SURFACE PREP: SSPC-SP6	
SCALE: AS NOTED	

DRAWING TITLE: DIKE STAIRWAY #1 HANDRAIL UNITS OUTSIDE

DRAWING NO.: S08/215
OF

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