TECHNICAL SPECIFICATION

FOR

NORTHSIDE GENERATING STATION
NGS-N00 BC-05 HEAD CHUTE
&
DIVERTER REPLACEMENT

Revision: 00
Date 3/24/2025

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1.1. General

1.2. Basis of Request

The Conveyor Systems around Northside Generating Station transports fuel and limestone to various points around the facility. Due to the abrasive nature of the material and the corrosive environment the equipment is in, the fuel and limestone chutes are deteriorating. Although temporary repairs have been made to BC-05 Head Chute and Diverter, replacement is needed to maintain reliability and minimize lost fuel and limestone. The material is currently being lost through the various penetrations caused by the corrosions and erosion of the components. Installed tiles for corrosion resistance have fallen off. The metal of the diverter has worn back due to erosion/corrosion. By replacing the chutes, reliability would be maintained and the release of fuel and limestone to the environment would be decreased.

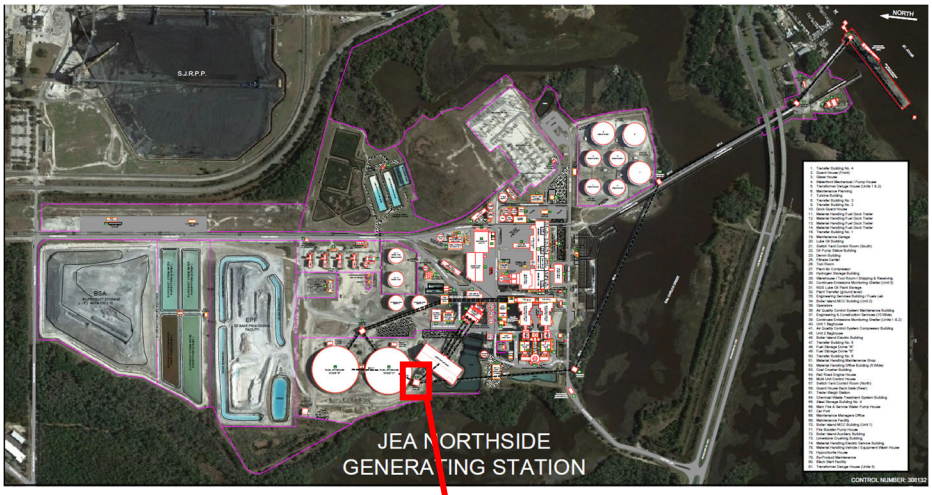
1.3. Scope of Work

- Contractor to fabricate new chute and diverter to spec
- Contractor to develop fabrication drawings and deliver drawings in CAD and PDF format
- Contractor to deliver new chute and diverter to site with freight costs included in proposa;

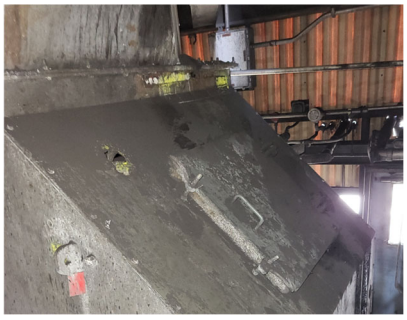
2.0 Supporting Documents

2.1 Site Location: 4433 William Ostner Rd, Jacksonville, FL 32226

- NGS N01 Limestone Crusher Day Bin

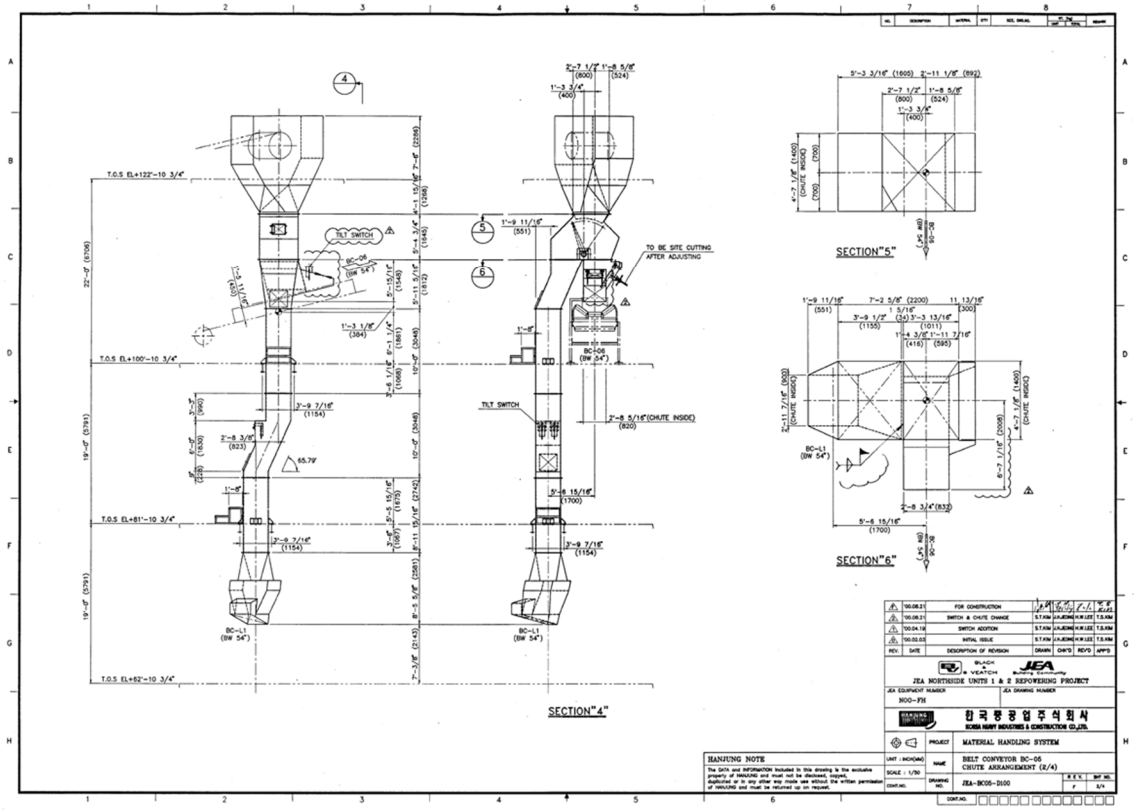


2.2 Equipment Images:

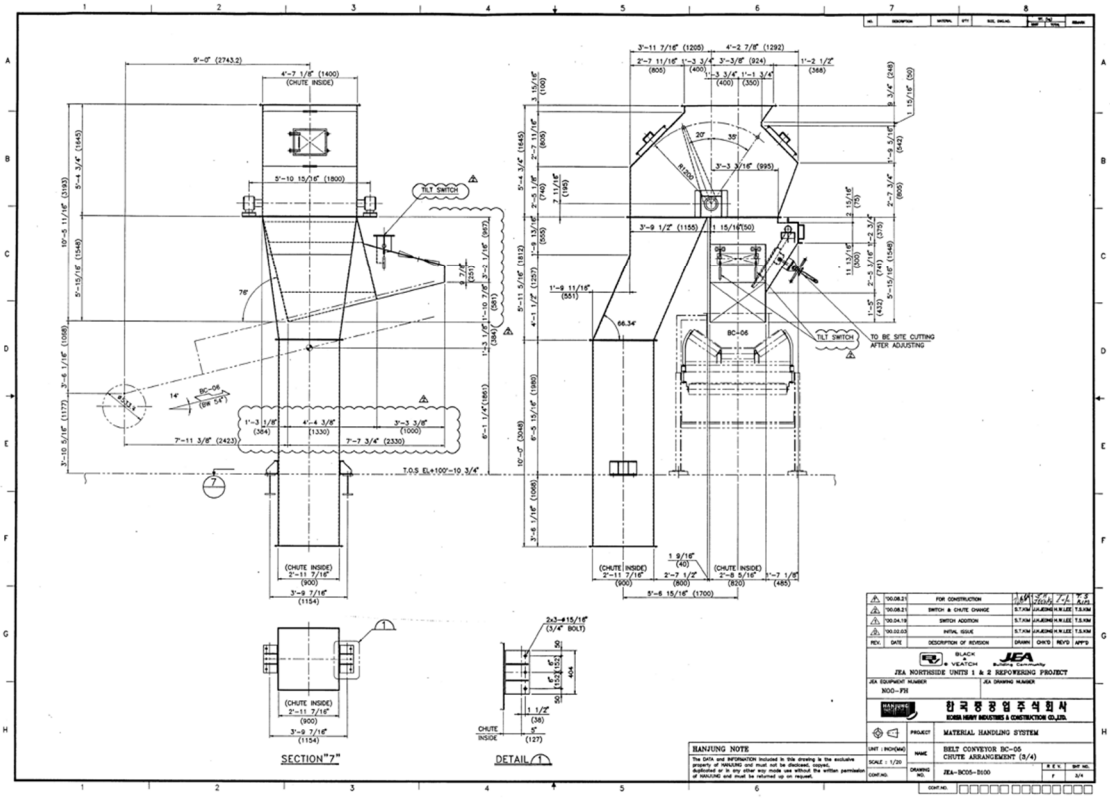


2.3 Existing System

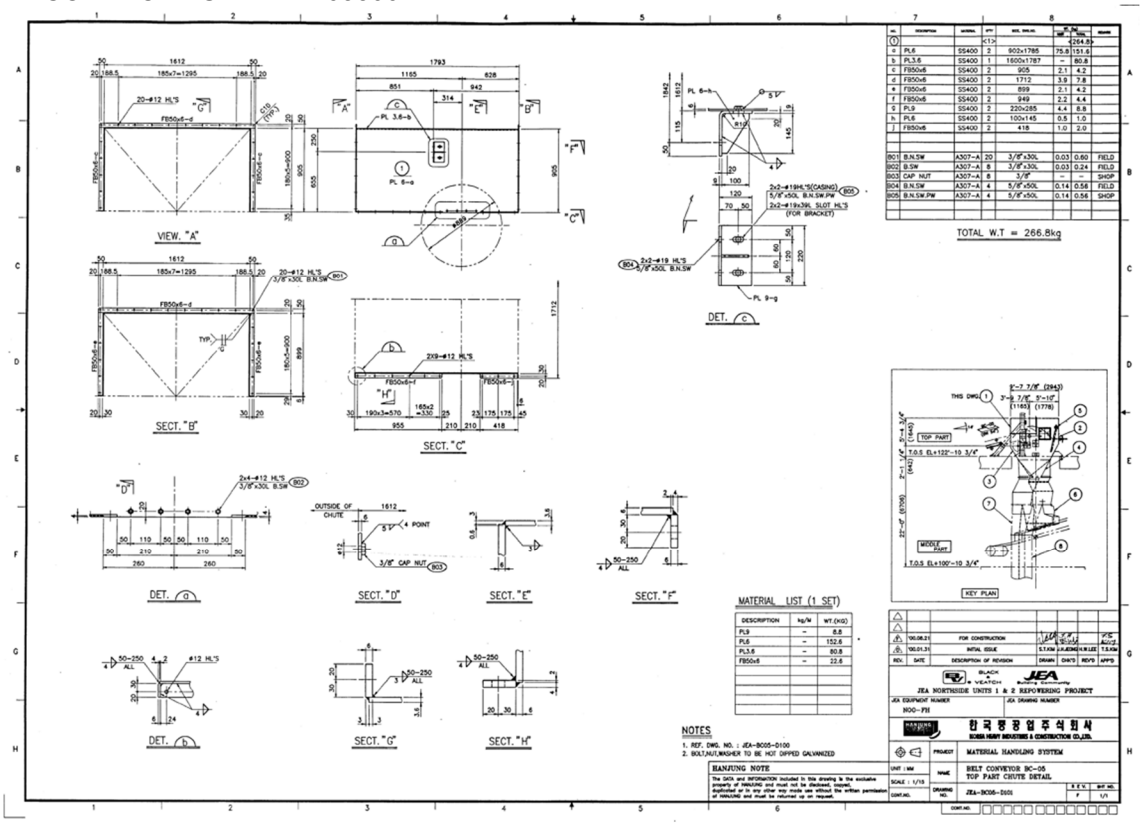
A. JEA Drawing: JEA-BC05-D100 CHUTE ARRANGEMENT (2/4)
CONTROL NUMBER: 101450



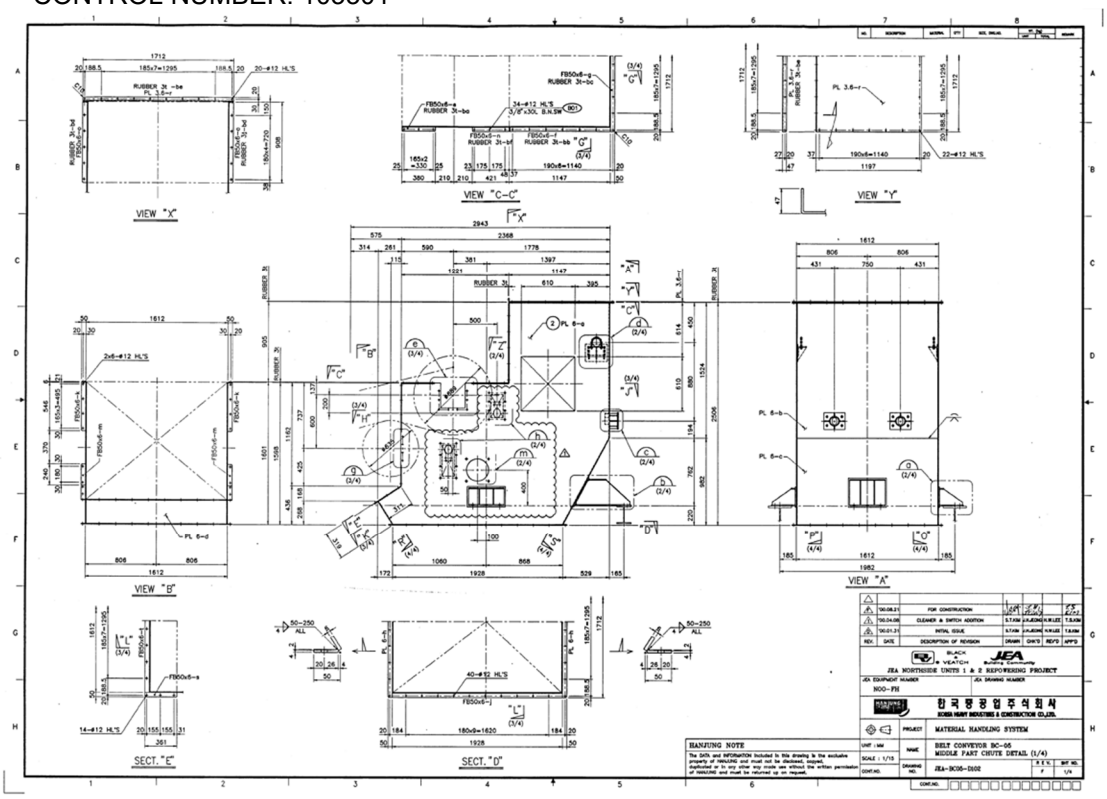
B. JEA Drawing: JEA-BC05-D100 CHUTE ARRANGEMENT (3/4)
CONTROL NUMBER: 101452



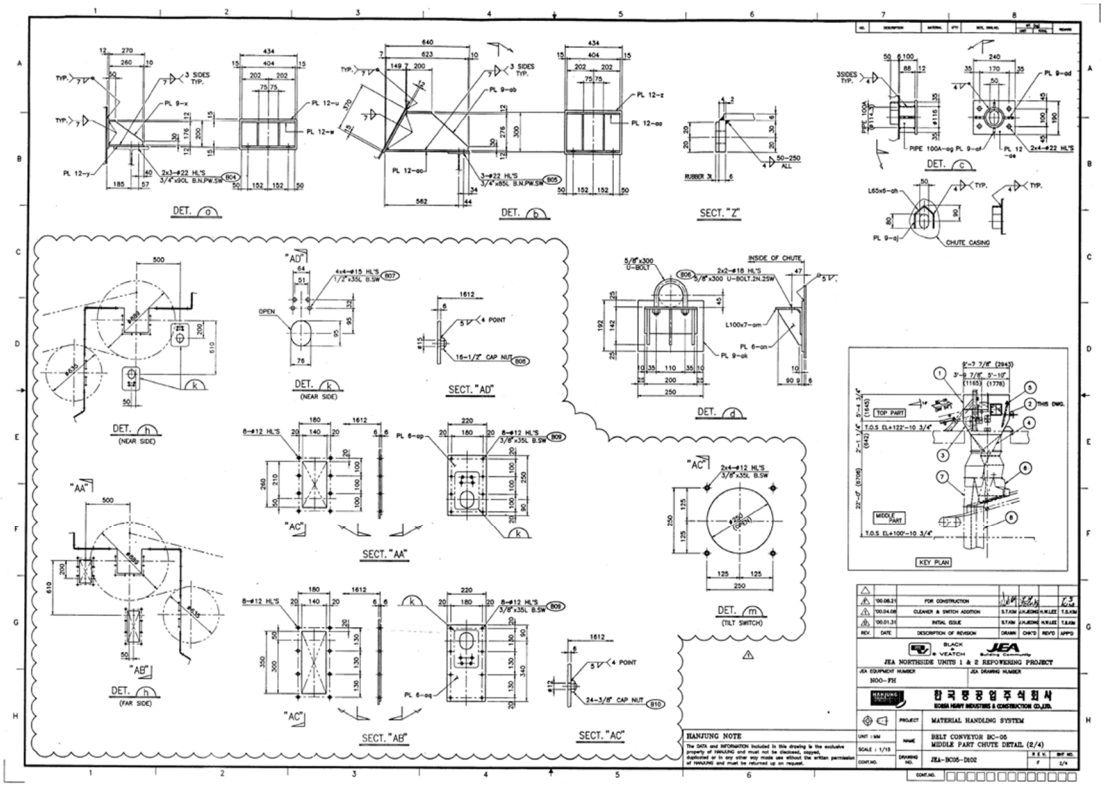
C. JEA Drawing: JEA-BC05-D101 CHUTE TOP PART CHUTE DETAIL
CONTROL NUMBER: 103300



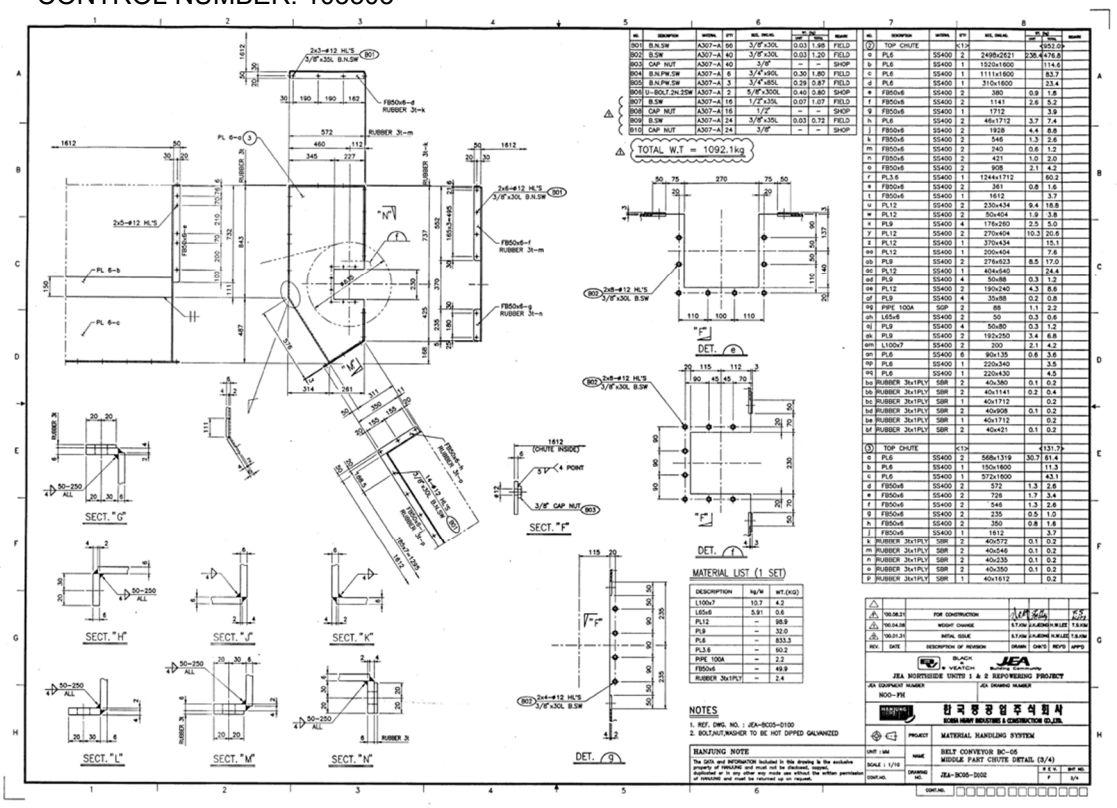
D. JEA Drawing: JEA-BC05-D102 CHUTE MIDDLE PART CHUTE DETAIL (1/4)
CONTROL NUMBER: 103301



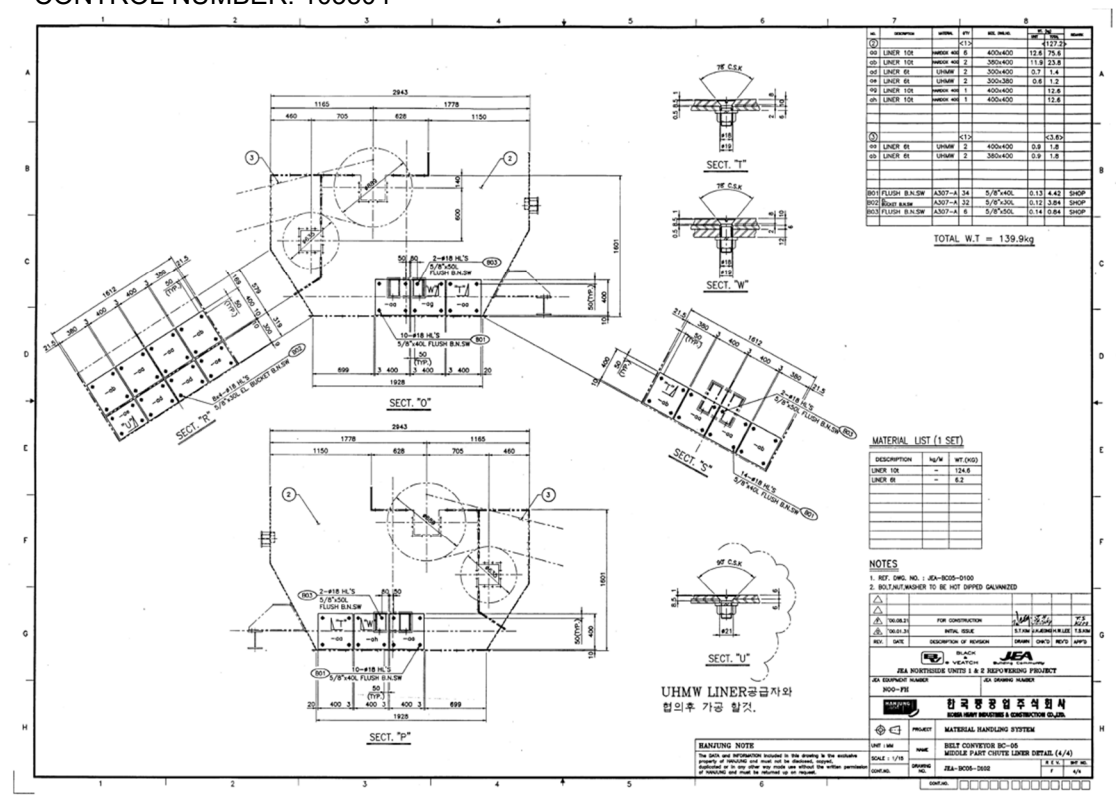
E. JEA Drawing: JEA-BC05-D102 CHUTE MIDDLE PART CHUTE DETAIL (2/4)
CONTROL NUMBER: 103302



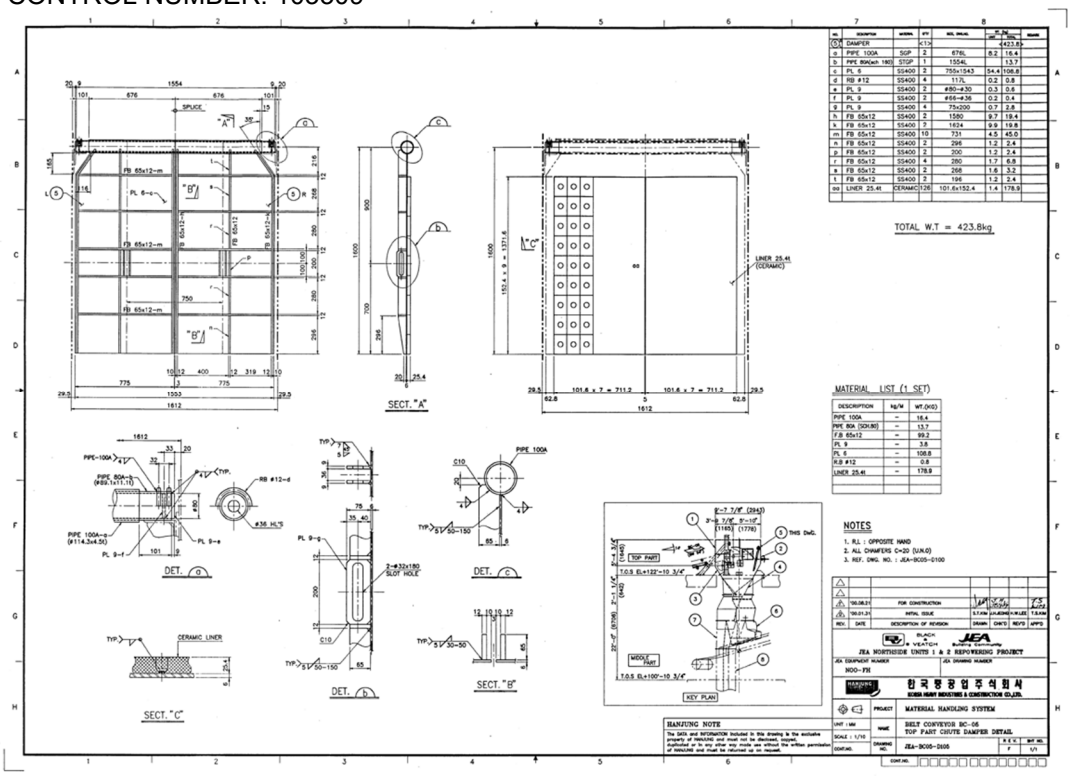
F. JEA Drawing: JEA-BC05-D102 CHUTE MIDDLE PART CHUTE DETAIL (3/4)
CONTROL NUMBER: 103303



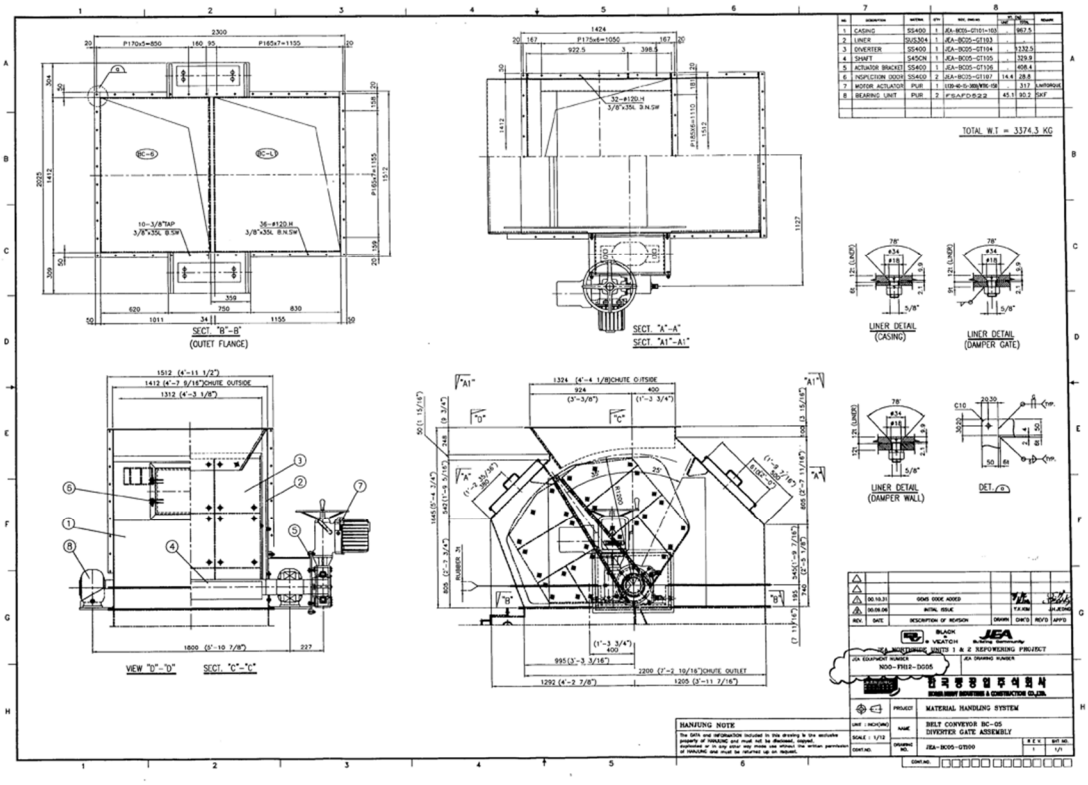
G. JEA Drawing: JEA-BC05-D102 CHUTE MIDDLE PART CHUTE DETAIL (4/4)
CONTROL NUMBER: 103304



H. JEA Drawing: JEA-BC05-D105 TOP PART CHUTE DAMPER DETAIL
CONTROL NUMBER: 103309



I. JEA Drawing: JEA-BC05-GT100 DIVERTER GATE ASSEMBLY
CONTROL NUMBER: 102827



2.4 Equipment / System Specification

A. Process Parameters / Operating Conditions

- HEAD CHUTE FABRICATED AND MACHINED FROM TASSCO 1/2" XT, TASSCO 3/8" XT, AND TASSCO 1/4" XT (ALTERNATIVE THROUGH HARDENED, WEAR RESISTANT MATERIAL ACCEPTABLE Hardness: 450 – 514 BHN).

- DEFLECTOR BACKING PLATE FABRICATED FROM TASSCO 1/2" CORRHARD AND 3/8" CORRHARD (ALTERNATIVE THROUGH HARDENED, CORROSION/WEAR RESISTANT MATERIAL ACCEPTABLE Hardness: 450 – 514 BHN).

- DIVERTER GATE - CASING TO BE FABRICATED AND MACHINED FROM TASSCO 1/2" XT (ALTERNATIVE THROUGH HARDENED, WEAR RESISTANT MATERIAL ACCEPTABLE Hardness: 450 – 514 BHN).

- DIVERTER GATE - DIVERTER TO BE FABRICATED AND MACHINED FROM TASSCO 1/2" CORRHARD, TASSCO 3/8" CORRHARD, AND TASSCO 1/4" CORRHARD (ALTERNATIVE THROUGH HARDENED, WEAR RESISTANT MATERIAL ACCEPTABLE Hardness: 450 – 514 BHN).

- DIVERTER GATE AND DEFLECTOR WEAR PLATES TO BE CONSTRUCTED FROM TASSCO 3/8" XT AS A BOLT IN LINER. (ALTERNATIVE THROUGH HARDENED, WEAR RESISTANT MATERIAL ACCEPTABLE Hardness: 260 – 360 BHN)

- REMAINING MATERIALS FROM A36 MILD STEEL