# NOTE TO DESIGNER

If ground line is less than 2'-0" minimum below the bottom of girder at front face of abutment a curtain wall shall be provided.

## TYPICAL END TYPE "A" DIAPHRAGM 
### AT END PIERS

### ELEVATION

1. **DIAPHRAGM DETAILS SHEET**
2. **BEARING**
3. **CONSTRUCTION JOINT**
4. **GIRDER SEAT & RECESS - LEVEL**
5. **PIER WALL**
6. **TOP OF GIRDER**
7. **BUTYL RUBBER @ DIAPHRAGM**

### PLAN VIEW

1. **BUTYL RUBBER @ DIAPHRAGM**
2. **BUTYL RUBBER @ VERTICAL JOINTS**

### END DIAPHRAGM GEOMETRY

**NOTE:**

1. **DIAPHRAGMS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.**
2. **REINFORCING BAR SHALL BE THREADED THROUGH HOLES IN GIRDER PRIOR TO PLACING OF EXTERIOR GIRDER. SEE PLANS FOR "TRAFFIC BARRIER" DIMENSIONS AND LOCATION. SEE "GIRDER DETAILS" SHEET FOR DIMENSION "A."**

### 3. END DIAPHRAGM MAY BE CAST ON GRADE. IF SO, THE UPPER LEG OF THE JOINT FILLER SHALL FORM THE BOTTOM FACE FULL WIDTH.

### 4. JOINT FILLER TYPE 1 SHALL BE USED TO COVER ALL VERTICAL END DIAPHRAGM JOINTS. EITHER JOINT FILLER TYPE 1 OR JOINT FILLER TYPE 2 SHALL BE USED TO COVER ALL HORIZONTAL END DIAPHRAGM JOINTS.

### BRIDGE LENGTH JOINTS

- **1500:** **= 1.5 IN.**
- **2000:** **= 2.0 IN.**
- **3000:** **= 2.5 IN.**
- **L > 4000:** **SPECIAL DESIGN**

### Bridge and Structures Office

Washington State Department of Transportation

TRAPEDZIAL TUB & DECK PANEL GIRDER - END DIAPHRAGM ON ORDER DETAILS