13 - MVI-45 Prestressed Beams

NOTES:

1. CONC. PARAPET (TYPE P-AH/300)
FTD 5'-0" W/O ORNAMENTAL METAL RAILING (TYPE)

2. 1-1/2" @ R.S.C. ILIGHTING

3. 1-1/2" @ R.S.C. (TS)

TRANSVERSE SECTION
FOOTING PLAN

PILE NOTES:
SEE SHEET 5 FOR PILE NOTES.

MARYLAND AVE. W.B.

7 SPS. @ 12'-31/2" = 88'-45/8"
NOTES:

1. MEMBRANE WATERPROOFING SYSTEM PER MWDOT SPEC. 2461.30.
2. 2" X 6" KEYWAY & CONST. J.T.
3. ARCHITECTURAL CONCRETE TEXTURE SHALL EXTEND 2'-0" MIN. BELOW FINISHED GRADE.
4. 4" NOMINAL O.D. PERFORATED PIPE INCLUDED IN DRAINAGE SYSTEM TYPE B590, SEE SHEET E.5.

SOUTHWEST WINGWALL - PLAN

EL. 832.41
EL. 824.41
EL. 824.84
EL. 813.14
EL. 813.14
EL. 801.10
EL. 804.10
EL. 804.10
EL. 807.10
EL. 807.10
EL. 807.10
EL. 807.10

SOUTHWEST WINGWALL - ELEVATION

ARCHITECTURAL CONCRETE TEXTURE (LIMESTONE)
ARCHITECTURAL SURFACE FINISH (MULTI-COLOR)

PILASTER CONST. J.T.

ARCHITECTURAL CONCRETE TEXTURE (LIMESTONE)
ARCHITECTURAL SURFACE FINISH (MULTI-COLOR)

SECTION B-B
SECTION A-A

NOTES:

FOR LOCATIONS OF SECTION A-A SEE SHEETS 14 & 15.
FOR LOCATIONS OF SECTIONS C-C & D-D SEE SHEET 14.
FOR LOCATIONS OF SECTIONS E-E & F-F SEE SHEET 15.

B.F. DENOTES BACK FACE.
F.F. DENOTES FRONT FACE.
① WITH COUPLERS (REINFORCEMENT BARD T-16)
② WITH COUPLERS (REINFORCEMENT BARD T-19)

PEDESTAL REINFORCEMENT DETAIL

PROVIDE 2" CLR FROM TOP OF PEDESTAL TO REINFORCEMENT.
FOOTING PLAN

PILE NOTES:
SEE SHEET 20 FOR PILE NOTES.
NOTES:

TOP OF WINGWALL ELEVATIONS ARE GIVEN AT BACK FACE OF WINGWALL.

FOR SECTION B-B SEE SHEET 25.

1. MEMBRANE WATERPROOFING SYSTEM PER MOHOT SPEC 24803-30L.
2. 2" X 6" KEYWay & CONST, JT.
3. ARCHITECTURAL CONCRETE TEXTURE SHALL EXTEND 2'-0" MONOCOLOR FINISHED GRADE.
4. 4" NOMINAL DIA PERFORATED PIPE INCLUDED IN DRAINAGE SYSTEM TYPE B90G, SEE SHEET 63.
CORNER DOWEL LAYOUT PLAN

NOTES:

R.F. denotes back face
F.F. denotes front face

1. ALTERNATE PLACEMENT OF 83001 & 83004 TO STAGGER LAPS SEE SHEET 28B.
2. 2 SPL. @ 10" x 1-3/8"
3. 8-INSIDE R.F. DOWELS
4. 2 SPL. @ 1-1/2" x 2-1/2"
5. 8-INSIDE F.F. DOWELS

FOOTING REINFORCEMENT PLAN

NORTHEAST CORNER
FOOTING REINFORCEMENT PLAN

169 SPACES @ 9" = 126'-0"
169-B2501 TOP, 169-B2502 BOT.

SOUTHEAST CORNER
NOTES:

FOR LOCATIONS OF SECTION A-A SEE SHEETS 29 & 50.
FOR LOCATIONS OF SECTIONS C-C & D-D SEE SHEET 29.
FOR LOCATIONS OF SECTIONS E-E & F-F SEE SHEET 30.
F.F. DENOTES FRONT FACE.
B.F. DENOTES BACK FACE.
1. WITH COUPLERS REINFORCEMENT BARS T-16.
2. WITH COUPLERS REINFORCEMENT BARS T-25.

PEDESTAL REINFORCEMENT DETAIL
PROVIDE 2" CLR. FROM TOP OF PEDESTAL TO REINFORCEMENT.
PEDESTAL REINFORCEMENT DETAILS

1/4" ANCHOR ROD (TP) ONLY REQUIRED AT INT DIVOLVE INTERIOR R BEAMS. SEE FRAMING PLAN ON SHEET 46 FOR DETAILS.
NOTES:
RAILING DIMENSIONS AND CONTROL JOINT SPACINGS ARE ACTUAL LENGTHS MEASURED. THE PLAN LENGTH HAS BEEN ADJUSTED TO ACCOUNT FOR THE VERTICAL PROFILE.
CONTROL JOINT SPACING IS ALONG OUTSIDE FACE OF PARAPET.
ORNAMENTAL RAILING SHALL NOT BE INSTALLED ON THE BRIDGE UNIT, AFTER SPAT FLOW AND AFTER CLOSURE POVER IS COMPLETE.
(1) DISTANCE FROM THE FACE OF CONCRETE PILASTER TO THE E. OF THE FIRST POST, 8'-0" MIN.
(2) DISTANCE FROM THE END OF CHAMFER TO THE FIRST POST, 4'-0"
(3) DISTANCE FROM FACE OF CONCRETE PILASTER TO EDGE OF PARAPET.

CONCRETE PARAPET AND ORNAMENTAL RAILING PLAN

MARYLAND AVE, N.W., MARYLAND
ELEVATION

THE DASHED NUMBERS SHOWN ABOVE ARE FOR ILLUSTRATION.
DATA TO BE SHOWN ON NAMEPLATE IS AS FOLLOWS:

BRIDGE
62626
YEAR
2002

SECTION A-A

1234567890 - 3/4" L

NOTES:

NO SHOP DRAWING REQUIRED.
MATERIAL SHALL COMPLY WITH MnDOT SPEC.3337.
LETTERS AND NUMBERS SHALL CONFORM TO THOSE SHOWN.
DRAFT ON LETTERS AND NUMBERS SHALL NOT BE MORE THAN 3" IN 12".
HORIZONTAL SPACING OF LETTERS AND NUMBERS SHALL PRODUCE A
BALANCED LAYOUT IN PROPORTION TO SPACING SHOWN.
TOP SURFACE OF LETTERS, NUMBERS AND FRAMES SHALL BE BURNISHED.
FURNISH 2 STEEL BOLTS 3/8" DIA. X 3" LONG WITH EACH PLATE.
ALL DIMENSIONS FOR 3/4" HIGH LETTERS AND NUMBERS SHALL BE
IN DIRECT PROPORTION TO THOSE SHOWN FOR THE 1" HIGH LETTERS AND NUMBERS.

SECTION B-B

NOTES:

APPROVED COMMERCIAL PILE SPlice BACK-UP RING MAY BE
USED IN LIES OF THE TYPE DETAILED. BACK-UP RING SHALL
HAVE A TIGHT FIT.
WELDING ELECTRODES SHALL BE CELLULOSIC TYPE ELECTRODES
E-6010 OR E-6011.
ELECTRODES WHICH HAVE BECOME WET, SOILED OR DAMAGED SHALL
NOT BE USED.
WELDING SHALL NOT BE DONE WHEN THE AMBIENT TEMPERATURE
IS LOWER THAN 60°F, OR WHEN THE PILE IS WET OR EXPOSED
to FALLING RAIN OR SNOW. WHEN THE PILE METAL TEMPERATURE
IS BELOW 33°F, THE PILE METAL IN THE AREA OF THE WELD SHALL
BE HEATED TO A MINIMUM TEMPERATURE OF 10°F. AND MAINTAINED
AT THIS TEMPERATURE DURING WELDING.

NOTE: FOR PILE SHELL THICKNesses GREATER THAN 1/2", USE A
B-WELD MELD CONFIGURATION.
SUMMARY OF QUANTITIES FOR DRAINAGE SYSTEM

**4" DIA. PERFORATED PIPE**
- 240 L.O.F.

**4" DIA. NON-PERFORATED PIPE**
- 50 L.O.F.

**45° ELBOW**
- 6 EACH

**4" END CAP**
- 2 EACH

**PIPE SLEEVE**
- 2 EACH

**PRECAST CONCRETE HEADWALL**
- 2 EACH

SECTION A-A

**SECTION A-A ALTERNATE MECHANICAL CASE**

**MECHANICAL CASE, DESIGN VARIES WITH FABRICATOR**

**SEE CONDUIT PLACEMENT DETAIL IN PLANS FOR CONDUIT CLEARANCES**

**SECTION A-A ALTERNATE WELDED CASE**

**SEE DETAIL "A"**

**ELEVATION**

**NOTES:**
- ALL PIPE SHALL COMPLY WITH WSDOT SPEC. 3245.
- WRAP PERFORATED PIPE WITH GEOFABRIC AS PER WSDOT SPEC. 3215, TYPE L, ATTACH TO PIPE AS PER WSDOT SPEC. 2505.
- PRECAST CONCRETE HEADWALL WITH ROGENT SCREEN, SEE STANDARD PLATE 332 FOR DETAILS.
- 1/2" PER FT, MINIMUM SLOPE.
- MATERIAL SHALL COMPLY WITH WSDOT SPEC. 3492.28 SELECT GRANULAR BORROW, MODIFIED SO THAT NO MORE THAN 10% PASSES A NO. 200 SIEVE, UNDER GRADING PORTION OF CONTRACT.

**STANDARD RAIL TYPES**
(SEE PLANS FOR TYPES)

**ANCHOR LENGTH**

| CONCRETE PI LASTERS | 5'-0" |

**ANCHOR BOLT CLUSTER FOR LIGHT POLES**

**NOTES:**
- ALL RODS ARE TO BE 1" NOMINAL DIA, WITH 1 - BUNC - 2A THREADS. HEAVY HEX NUTS, JAM NUTS, AND FLAT WASHERS PER WSDOT SPEC 3386.31 FOR 1" DIA. THREADED RODS, NUTS TO BE TAPPED 7/8" OVERSIZED PRIOR TO GALVANIZING AND RETAPPED TO STANDARD SIZE AFTER GALVANIZING.
- GALVANIZE THREADED RODS, CAGES, AND NUTS AFTER FABRICATION AS PER WSDOT SPEC. 3386.
- TOP OF THE LARGER NUTS SHALL BE FLUSH WITH TOP OF CONCRETE RAILING.
- SUBSTITUTE MATERIALS PER WSDOT SPEC. 1605.

1. THREADS RODS, STEEL AS PER WSDOT SPEC. 3309, 3310,
   OR 3386 TYPE B (R REQUIRED).
2. PROVIDE A MECHANICAL OR WELDED CASE FOR ROD ALIGNMENT.
   STEEL AS PER WSDOT SPEC. 3386 (R REQUIRED).
3. HEAVY HEX NUTS FOR 1" DIA. RODS (R REQUIRED).
4. FLAT WASHERS FOR 1" DIA. RODS (R REQUIRED).
5. JAM NUTS FOR 1" DIA. RODS (R REQUIRED).