48" TYPE 2 CATCH BASIN
(WSDOT B-1e)

OLDCASTLE MANHOLES:
- HS-20 Wheel Load, 16.0 kip
- Manhole meets ASTM C478 and all WSDOT/APWA Standard Specifications
- Rubber gasket joint meets ASTM C443
- Polypropylene steps and ladders meet ASTM D4101
- Reinforcement area meets minimum ASTM C478 requirements:
  - Flat Top = 0.15 in.²/linear ft. in both directions, w/ 0.20 in.² @ 90° around opening
  - 3' tall Cone = 3 hoops of 0.375 in. dia. reinforcing bars
- Sections = 0.15 in.³/vertical ft.
- Bases = 0.15 in.³/linear ft. in both directions (slab), 0.15 in.³/vertical ft. (wall)
- Knockout sizes and locations available to meet job requirements
- Maximum hole size 36''
- Minimum distance between holes 8''

SECTIONS

SECTION HEIGHT
CHART

HEIGHT | HEIGHT | WEIGHT
1'-0" | 870 lbs
2'-0" | 1,740 lbs
3'-0" | 2,610 lbs
4'-0" | 3,480 lbs
5'-0" | 4,350 lbs

STEP HOLES
(SHOWN w/ STEPS)

BASE

VARIABLE SIZE
KNOCKOUTS OR
CORED HOLES
AVAILABLE

BASE HEIGHT
CHART

HEIGHT | WEIGHT
4'-0" | 4,320 lbs
5'-0" | 5,150 lbs
5'-0" | 4,880 lbs

w/ 4-way 20" Knockout
w/ 4-way 20" Knockout
w/ 4-way 26" & 34" Knockout

* knockouts at 90°

FOR DETAILS, SEE REVERSE>>

Items Shown Are Subject To Change Without Notice
Issue Date: April 2016