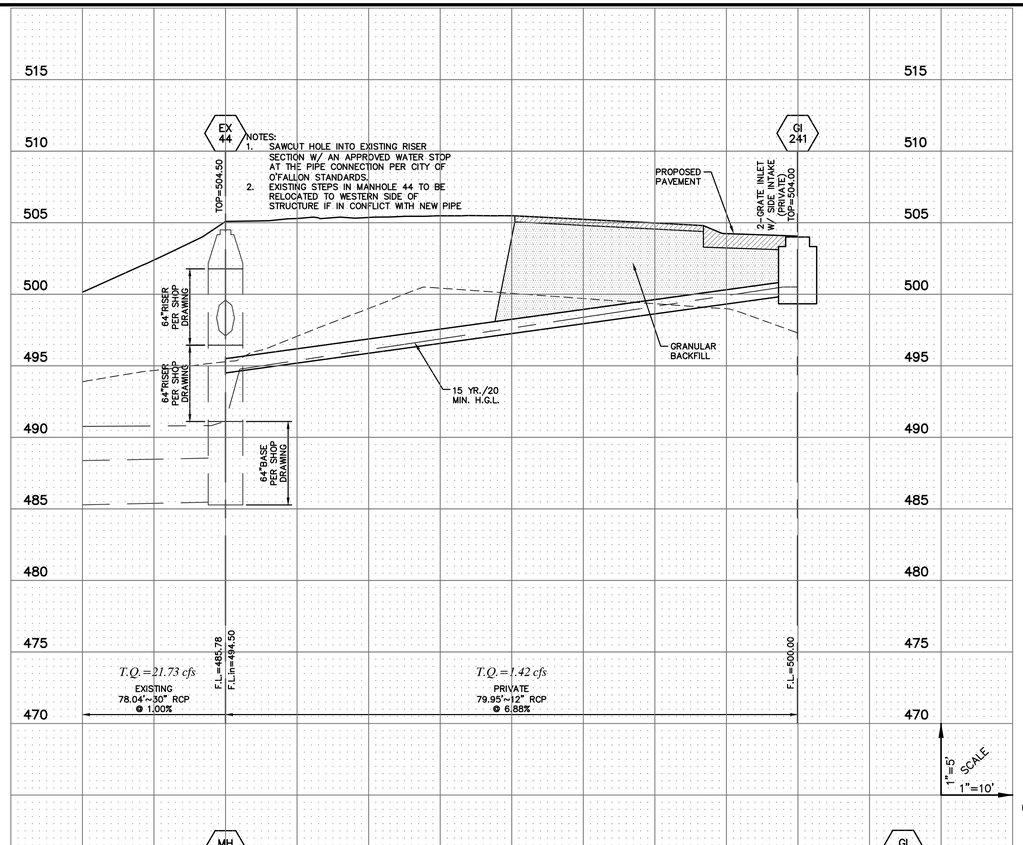
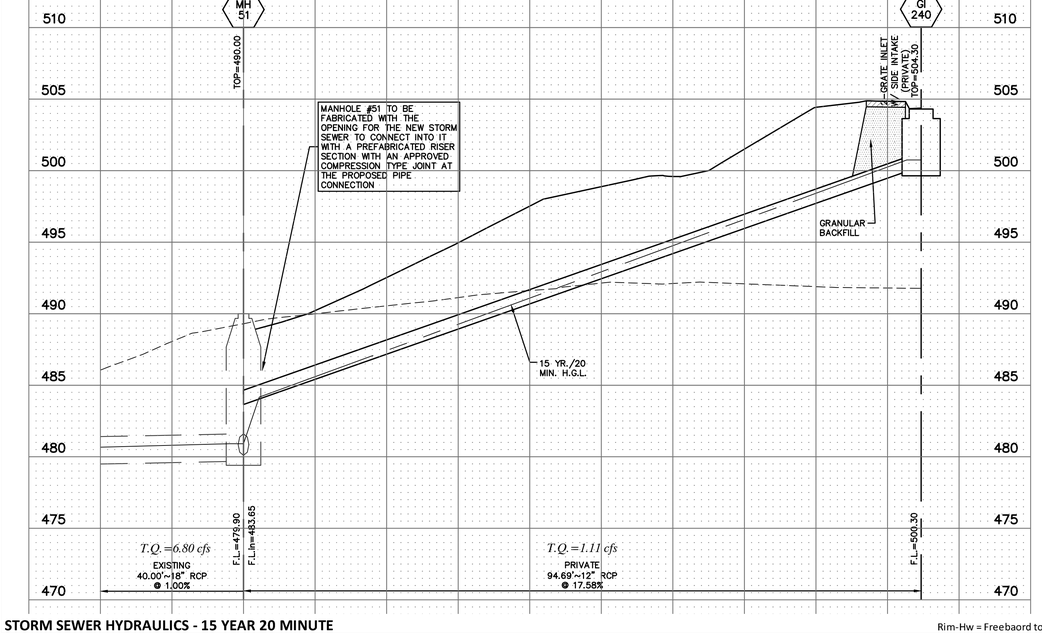


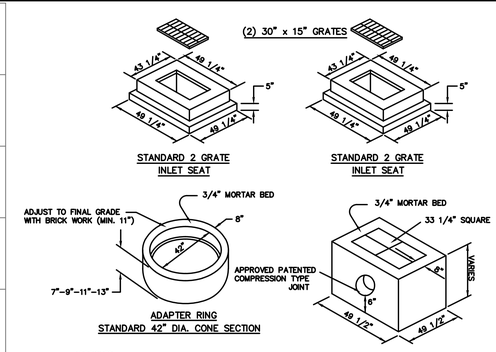



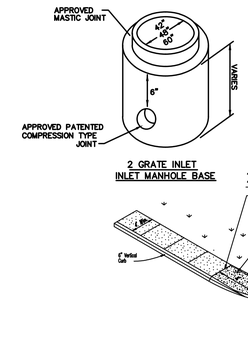

## STORM SEWER HYDRAULICS - 15 YEAR 20 MINUTE

Rim-Hw = Freebaord to Top of Structure

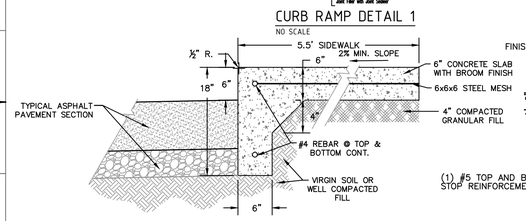
| LineNo. | LineID | LineSize | FlowRate | InvertDn | InvertUp | LineLength | LineSlope | VelAve | Grnd/RimElev Dn | Grnd/RimElev Up | HGLDn | HGLUp | Rim-Hw | CriticalDepth | EGLDn | EGLUp | EnergyLoss | CapacityFull | n-valuePipe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (in) | (cfs) | (ft) | (ft) | (ft) | (%) | (ft/s) | (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (cfs) | |
| 1 | 43-44 | 30 | 21.73 | 485.00 | 485.78 | 78.00 | 1.00 | 4.43 | 0.00 | 504.50 | 490.60 | 490.82 | 13.38 | 1.58 | 490.90 | 491.12 | 0.219 | 41.01 | 0.013 |
| 2 | 44-241 | 12 | 1.42 | 494.50 | 500.00 | 79.95 | 6.88 | 6.08 | 504.50 | 504.00 | 494.76 | 500.50 | 3.50 | 0.50 | 494.96 | 500.70 | 0.000 | 9.34 | 0.013 |
| 3 | 50-51 | 18 | 6.80 | 479.50 | 479.90 | 40.00 | 1.00 | 5.38 | 0.00 | 490.00 | 480.51 | 480.91 | 9.09 | 1.01 | 480.96 | 481.36 | 0.000 | 10.50 | 0.013 |
| 4 | 51-240 | 12 | 1.11 | 483.65 | 500.30 | 94.69 | 17.58 | 7.22 | 490.00 | 504.30 | 483.83 | 500.74 | 3.56 | 0.44 | 484.00 | 500.91 | 0.000 | 14.93 | 0.013 |

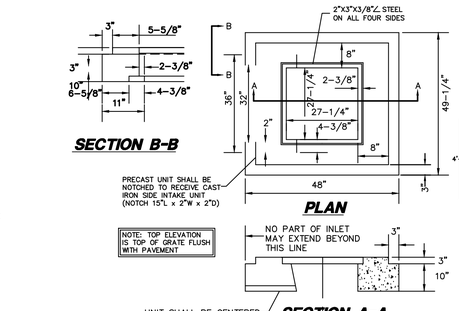
Notes: j-Line contains hyd. jump

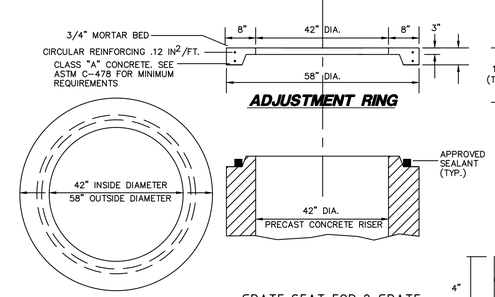


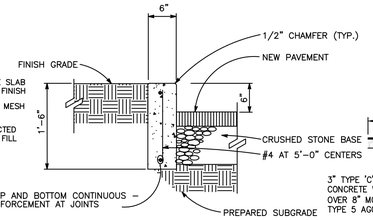



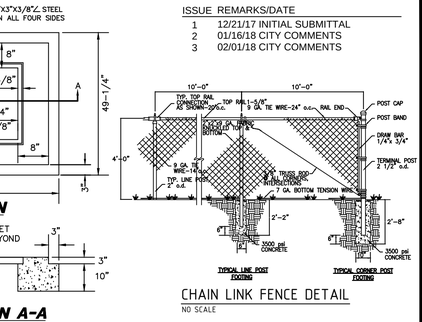

NOTE: INLETS ON THIS SHEET ARE TO BE USED IN LOCATIONS WHERE STANDARD OPEN THROAT INLETS CAN NOT BE USED, IN PAVED TRAFFIC WAY AND IN LIMITED EASEMENTS.

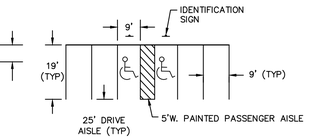


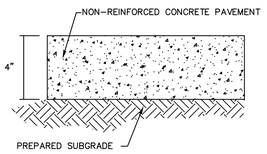



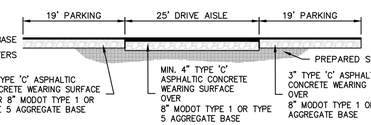



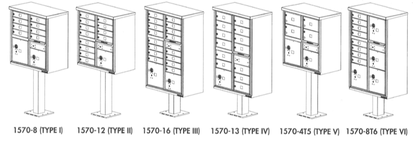




## CBU PRODUCT INFORMATION

vital™ cluster box units - 1570 Series

Florence vital™ cluster box units are an officially licensed product of the US Postal Service for centralized mail delivery.

License #1CDSEQ-08-B-0012




| | TYPE I | TYPE II | TYPE III | TYPE IV | TYPE V | TYPE VI |
|---|---|---|---|---|---|---|
| INSTALLED HEIGHT | 62" | 62" | 62" | 62" | 62" | 62" |
| DEPTH | 18" | 18" | 18" | 18" | 18" | 18" |
| WIDTH | 30 - 1/2" | 30 - 1/2" | 30 - 1/2" | 30 - 1/2" | 30 - 1/2" | 30 - 1/2" |
| PEDESTAL HEIGHT | 28 - 1/2" | 28 - 1/2" | 14 - 1/2" | 14 - 1/2" | 28 - 1/2" | 14 - 1/2" |
| WEIGHT (WITHOUT PEDESTAL)* | 107 LBS | 111 LBS | 147 LBS | 137 LBS | 112 LBS | 148 LBS |
| WEIGHT (WITH PEDESTAL)* | 125 LBS | 129 LBS | 162 LBS | 152 LBS | 130 LBS | 163 LBS |
| QTY OF STANDARD COMPARTMENTS | 8 | 12 | 16 | 13 | 4 | 8 |
| STANDARD COMPARTMENT HEIGHT | 3 - 1/4" | 3 - 1/4" | 3 - 1/4" | 5" | 6 - 1/2" | 3 - 1/4" |
| QTY OF PARCEL COMPARTMENTS | 2 | 1 | 2 | 1 | 2 | 4 |
| PARCEL COMPARTMENT HEIGHT | 10", 13" | 10" | 10", 13" | 10" | 10", 13" | 10", 13" |

* Weights do NOT include packaging - product only.

Note: For installation of Florence vogue™ decorative CBU accessories, please refer to manual located within the vogue™ product packaging.

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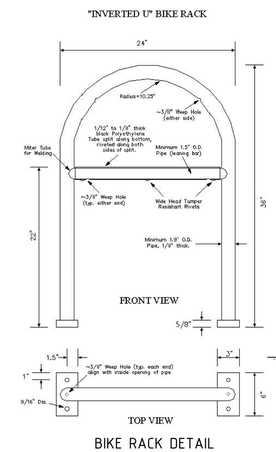
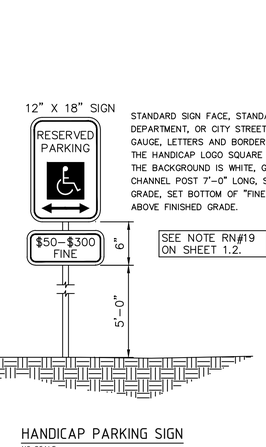
FLORENCE MANUFACTURING CPU PRODUCT INFORMATION




STANDARD SIGN FACE, STANDARD HIGHWAY DEPARTMENT, OR CITY STREET DEPARTMENT GAUGE, LETTERS AND BORDERS ARE GREEN, THE HANDICAP LOGO SQUARE IS BLUE AND THE BACKGROUND IS WHITE, GALVANIZED U CHANNEL POST 7'-0" LONG, SET 3'-0" INTO GRADE, SET BOTTOM OF "FINE" SIGN 5'-0" ABOVE FINISHED GRADE.

SEE NOTE RN#19 ON SHEET 1.2.




PROJECT TITLE

*COBBLESTONE CROSSING*

O'FALLON, MISSOURI


THE STERLING CO.
ENGINEERS & SURVEYORS
5055 New Baumgartner Road
St. Louis, Missouri 63129
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www.sterling-eng-sur.com
Corporate Certificate of Authority #001348



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STATE OF MISSOURI SEAN M. ACKLEY NUMBER PE-2009018679 PROFESSIONAL ENGINEER

Date: 02/01/18
Sean M. Ackley
License No. PE-2009018679
Civil Engineer


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SEWER PROFILES & SITE DETAILS

P+Z No. 29-16.01
City No.
Date: Feb. 1, 2018
Job No. 16-08-239

Page No.

5.1

SITE

"FINAL PLAN" Approval Date: January 26, 2017


Drawing name: C:\Users\sackley\appdata\local\temp\AcPublish_53498239 /mp Rec area plan.dwg Plotted on: Feb 01, 2018 - 7:33am Plotted by: sackley