

WHEELER BRIDGE

WSSI #HC-01 (NO RESTON PLAC. #)

FOR INFORMATION ONLY
CONSTRUCTION PLANS WILL BE SUBMITTED FOR
SEPARATE PERMIT BY OTHERS PRIOR TO
CONSTRUCTION.

NOTES:
DIMENSIONS SHOWN ARE APPROXIMATE. DIMENSIONS GIVEN ARE TO CENTER OF SHAPLAP JOINTS.
RAILING NOT SHOWN ON PLAN VIEW FOR CLARITY.

ADDITIONAL WEAR COURSE NOT SHOWN.

RAILING SHOWN IS FOR ILLUSTRATION ONLY. SPECIFIC RAILING DETAILS WILL BE PROVIDED IN BRIDGE PERMIT APPLICATION

CALLOUT LEGEND
DO NOT SCALE DRAWINGS

GENERAL BRIDGE PLAN & ELEVATION
WSSI BRIDGE NO.21

DATE: 8/28/09 TRACKING NO. 715722 SHEET NO. 2 OF 5
CHG: WEH DWN: LAF ORDER NO. 524-12738

RAILING SHOWN IS FOR ILLUSTRATION ONLY. SPECIFIC RAILING DETAILS WILL BE PROVIDED IN BRIDGE PERMIT APPLICATION

ADDITIONAL WEAR COURSE NOT SHOWN.

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NOTES:
① ALL HARDWARE PENETRATING THE TOP OR BOTTOM EDGE OF THE DECK PLANK SHALL PASS THROUGH THE CENTER OF THAT EDGE DIMENSION.
② FIELD DRILLED HOLES IN THE LOWER SPLICE BLOCK OF EACH PANEL ARE TO BE DRILLED COMPLETELY THROUGH THE BLOCK TO PREVENT SPLITTING WHEN INSTALLING THE 5/8" DRIVE SPIKES.
③ 2" X 4" PAWING STRIP, SAS, FASTEN TO DECK WITH (2) 20# NAILS @ 18" CENTERS. PREDRILL HOLES TO AVOID SPLITTING.
④ 5/8" X 17" DIA. HD. DR. SPIK WITH 3/4" X 1/2" DEEP C'BORE, PANEL SHAPLAP JOINT, SHOP DRILL TOP SPLICE ONLY.
⑤ 1 1/2" FUTURE BITUMINOUS OVERLAY.

CALLOUT LEGEND
DO NOT SCALE DRAWINGS

SECTIONS THRU
Wheeler
9330 JAMES AVE. S.
BLOOMINGTON, MN 55431

DATE: 8/28/09 TRACKING NO. 715722 SHEET NO. 3 OF 5
CHG: WEH DWN: LAF ORDER NO. 524-12738

DESIGN CRITERIA:

- LINE LOAD: BRIDGE IS DESIGNED FOR 100psf PEDESTRIAN LOAD.
- WIND LOADING: WIND LOADING SHALL BE TAKEN AS 35 psf AS F ENCLOSED.
- SEISMIC ISSUES: ASSUME AASHTO SPC A FOR SEISMIC CONSIDERATION.
- NUMBER OF HELICAL PIERS PER CAP IS BASED ON 35,000 LB. WORKING CAPACITY PER PIER.

SUPERSTRUCTURE REACTION TABLE * (in lbs.)					
DEAD LOAD	LINE LOAD	TOTAL LOAD	LOAD PER SILL	WIND LOAD PER SILL	WIND LOAD PER PIER
25,800	34,000	49,800	24,900	7,100	3,600

* BASED ON ONE SILL PER END OF BRIDGE, AND 2 HELICAL PIERS PER SILL.

DESIGN CRITERIA
WSSI BRIDGE NO.21

DATE: 8/28/09 TRACKING NO. 715722 SHEET NO. 5 OF 5
CHG: WEH DWN: LAF ORDER NO. 524-12738

Elevation 3/8"=1'-0"
Hickory Cluster Bridge

RAILING DETAIL PROVIDED BY HICKORY CLUSTER ASSOCIATION. FINAL DRAWINGS WILL BE INCLUDED IN BRIDGE PERMIT APPLICATION.
ADDITIONAL WEAR COURSE WILL ALSO BE ADDED
(AN ADDITIONAL WEAR COURSE OF YELLOW PINE PLANKS WILL BE INSTALLED ON TOP OF AND WILL BE RUNNING PERPENDICULAR TO THE PANEL-LAM DECKING)

Perspective
Hickory Cluster Bridge

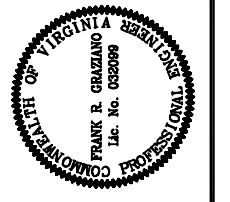
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Northern Virginia Stream Restoration Bank
Hickory Cluster
Fairfax County, Virginia

Bridge Railing Details

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REVISIONS		App. By	Date
No.	Description		

Horizontal Datum: N/A
Vertical Datum: N/A
Boundary and Topo Source: N/A

Design	Draft	Approved
KLP	KLP	FRG

Sheet #
19 of 38

Computer File Name:
L:\2011\2011\08\28\WSSI#HC-01\BRIDGE DETAIL.DWG

DATE: JANUARY 2011
SCALE: As Noted