OPTIONAL DELIVERY ROUTES

N

ENGINEERING DIVISION
PUBLIC WORKS DEPARTMENT
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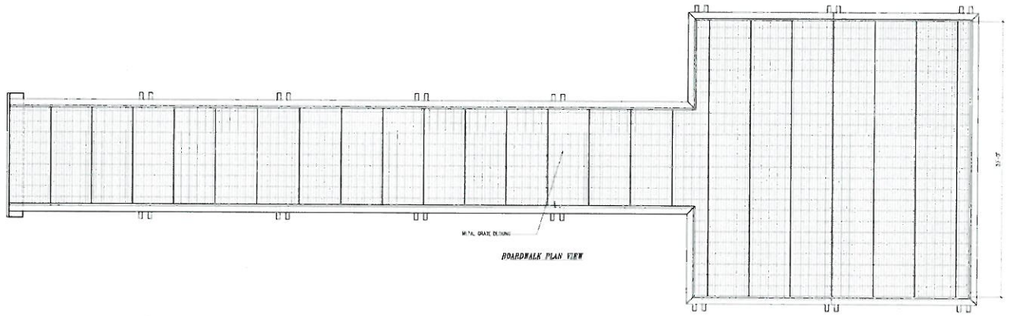
DIRKSEN NATURE PARK BOARDWALKS

STAGING AND ACCESS EXHIBIT

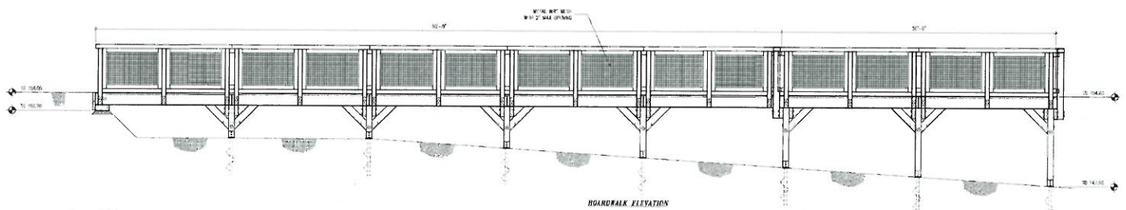
FIGURE FIG-1

FILE NO 92016

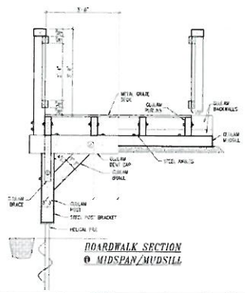
Plotted by:JEFF PECK on Thursday, September 29, 2016 at 1:48:31 PM from the 11X17 FIGURE BORDER layout tab
File Name/Path:I:\ENG\1 - ACTIVE PROJECTS\92016-05 DNP FORESTED WETLAND RESTORATION_BOARDWALKS\DESIGN\DESIGN CAD FILES FOR EXHIBITS\DELIVERY ROUTE AERIAL.DWG



BOARDWALK PLAN VIEW



BOARDWALK ELEVATION



BOARDWALK SECTION
@ MIDSPAN/MUDSILL

TREATMENT SPECIFICATIONS:

ALL DIMENSIONED CUTS AND HOLES IN TIMBER MATERIAL SHALL BE MADE PRIOR TO PRESSURE TREATMENT. [illegible] AND ENDS WITH SUPPLIED MATERIALS IN ACCORDANCE WITH AWPA SPECIFICATION M4.

TREAT GLULAM MATERIAL IN PENTACHLOROPHENOL [illegible] TO A MINIMUM RETENTION OF [illegible] PER AWPA SPECIFICATIONS [illegible] OF TEST NO.

—NOTE—

THE LUMBER AND GLULAM ON THIS PROJECT WILL PREVIOUSLY [illegible] WITH PENTACHLOROPHENOL WITHOUT A LIMIT ABOVE GROUND SERVICE LIFE. [illegible] SHALL BE COMMON GRADE [illegible] ONLY AS GLULAM TIMBER. AND IS WELL SUITED FOR USE WITH [illegible] SHALL ALSO BE [illegible] WITH METAL STRIPS. [illegible] BUTTERFLY [illegible] FOR USE WITH [illegible] FOR [illegible] DATES. MAXIMUM HEIGHT IS 20' WITH A FALL HAZARD [illegible].

TIMBER BREAKER WITH PENTACHLOROPHENOL MAY EXHIBIT A BLOOMING OF [illegible] ON THE WOOD SURFACE ON SEVERAL [illegible] AFTER THE TREATMENT PROCESS. [illegible] WOOD SURFACE OF THE BRIDGE. [illegible] ON THOSE SURFACES SUBJECT TO PUBLIC CONTACT. THE BLOOM DOES NOT STAIN AND IS [illegible] ADVERSE CONDITIONS [illegible] ADMINISTRATIVE CONDITIONS.

IF ANY BOLTS EXIST TO ATTACH TEMPORARY PLANKS TO SHELL TO PROVIDE BREAKER [illegible] METAL BRACKETS WITH [illegible] STANDARD DEPTHS. [illegible] NOT PLANE SURFACE AS PROVIDED UNTIL ALL [illegible] AND [illegible] WHEN MECHANICAL [illegible] A PLANE [illegible] SHOULD BE [illegible] A STAINING ON THE WOOD SURFACES.

IF BRIDGE MATERIAL IS TO BE STORED PRIOR AT THE SITE, IT MUST BE STORED IN A COVERED AREA AND STACKED APPROPRIATELY [illegible] IT MUST BE [illegible] AS SUPPORT IN A NEAT, DRY [illegible] IT MUST ALSO BE COVERED WITH PLANKS OR OTHER MATERIAL [illegible] ARE [illegible] BLOCKING ENDS.

DESIGN CRITERIA:

2009 AASHTO LRFD GUIDE SPECIFICATIONS FOR PEDESTRIAN BRIDGES
LIVE LOAD: 90 PSF

GLULAM SPECIFICATIONS:

MATERIAL	WOOD SHALL BE GLULAM PER ANSI/AITC A190.1
ADHESIVE	WATERPROOF PHENOLIC
FABRICATION	AS SHOWN AND NOTED. MACHINE INCISE ALL GLULAM EXCEPT DECKS. DO NOT INCISE RAILS
APPEARANCE	AS NOTED & NOTED
FINISH	SEE TREATMENT SPECIFICATIONS
PROTECTION	NONE
CONTRACT	MEC [illegible]

GLULAM MATERIAL INCLUDES FOR BEAMS, POSTS, RAILS, GUARDS, MUTTLES & BRACKETS

STEEL SPECIFICATIONS:

STEEL SHAPES	ASTM A36
REINFORCING	ASTM A36
HOT DIP GALVANIZE	ALL STEEL SHAPES AFTER FABRICATION.
HOT DIP GALVANIZE	ALL HARDWARE

ALL WELDS NOT TO BE PER AWS SPECIFICATIONS BY CERTIFIED WELDERS. [illegible] ALL WELDS MUST CONFORM WITH CRITERIA [illegible]

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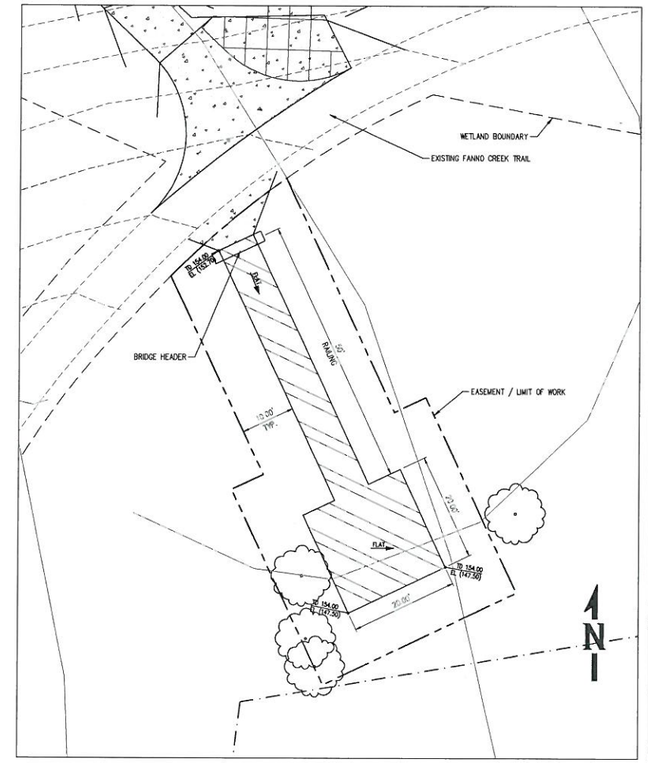
800/547-5411

PROJECT:
LOCATION:
ARCHITECT:
OWNER:
CONTRACTOR:
DRAWN BY: DATE:
CHECKED BY: DATE:
DATE PRINTED: 09/02/15

WETLAND OVERLOOK DETAIL
SCALE: N.T.S.
1 / C3.10



WETLAND OVERLOOK SITE PLAN
SCALE: 1" = 10'
2 / C3.10

BOARDWALK 1

PRELIMINARY PLANS PROVIDED FOR DESIGN INTENT. BOARDWALKS TO BE CONTRACTOR DESIGNED AND INSTALLED. CONTRACTOR TO SUBMIT FINAL SHOP DRAWINGS AND STRUCTURAL CALCULATIONS FOR APPROVAL AND BUILDING PERMIT SUBMITTAL.

BID SET - 8/31/15

WHPacific
8705 SW Nimbus Rd, Suite 300
Portland, OR 97223
503-639-4455 Fax 503-526-0715
www.whpacific.com

REVISIONS			
NO.	BY	DATE	REMARKS
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

SHEET INFO	
DESIGNED	—
DRAWN	—
CHECKED	—
APPROVED	—
LAST EDIT	8.31.2015
PLOT DATE	9/2/2015
SUBMITTAL	—

WETLAND OVERLOOK DETAILS

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE II

PROJECT NUMBER: P0003151W
DRAWING FILE NAME: 035975-C-DT05
SCALE: —

SHEET NUMBER
C3.10

DATE: 9/2/2015 12:42 PM] [AUTHOR: jgilles] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
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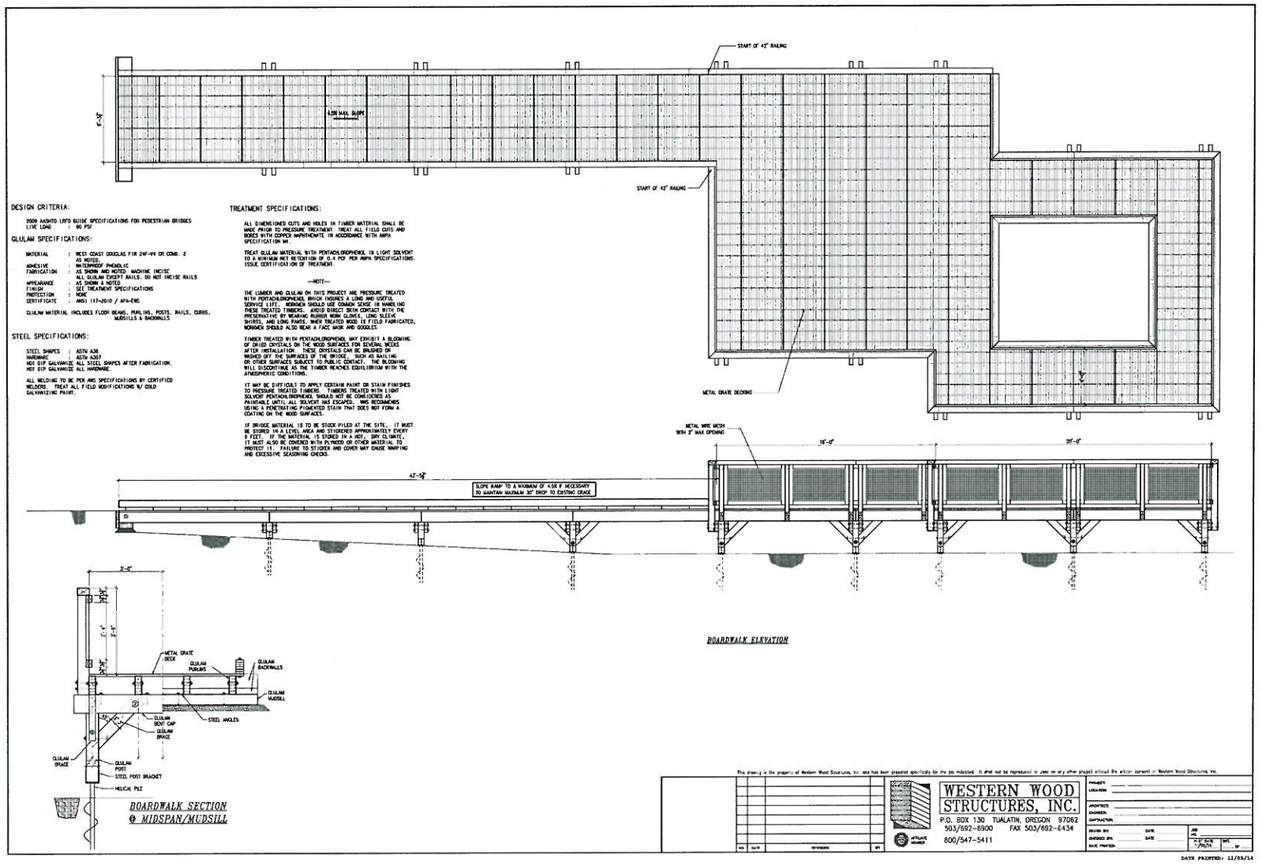

DESIGN CRITERIA:

2009 AASHTO LRFD GUIDE SPECIFICATIONS FOR PEDESTRIAN BRIDGES
LIVE LOAD : 90 PSF

GLULAM SPECIFICATIONS:

MATERIAL : WEST COAST DOUGLAS FIR 24F-V4 OR COMB. 2 AS NOTED.
ADHESIVE : WATERPROOF PHENOLIC
FABRICATION : AS SHOWN AND NOTED. MACHINE INCISE
APPEARANCE : AS SHOWN & NOTED. SQUARE RAILS. DO NOT INCISE RAILS
FINISH : AS SHOWN & NOTED
PROTECTION : SEE TREATMENT SPECIFICATIONS
CERTIFICATE : NONE
: ANSI 117-2010 / APA-EWS

GLULAM MATERIAL INCLUDES FLOOR BEAMS, PURLINS, POSTS, RAILS, CURBS, NAILERS & BACKWALLS

STEEL SPECIFICATIONS:

STEEL SHAPES : ASTM A36
HARDWARE : ASTM A307
HOT DIP GALVANIZE ALL STEEL SHAPES AFTER FABRICATION.
HOT DIP GALVANIZE ALL HARDWARE.

ALL WELDING TO BE PER AWS SPECIFICATIONS BY CERTIFIED WELDERS. TREAT ALL FIELD MODIFICATIONS W/ COLD GALVANIZING PAINT.

TREATMENT SPECIFICATIONS:

ALL DIMENSIONED CUTS AND HOLES IN TIMBER MATERIAL SHALL BE MADE PRIOR TO PRESSURE TREATMENT. TREAT ALL FIELD CUTS AND BORES WITH COPPER NAPHENATE IN ACCORDANCE WITH AWPA SPECIFICATION M4.

TREAT GLULAM MATERIAL WITH PENTACHLOROPHENOL IN LIGHT SOLVENT TO A MINIMUM NET RETENTION OF 0.6 PCF PER AWPA SPECIFICATIONS. ISSUE IDENTIFICATION OF TREATMENT.

—NOTE—

THE LUMBER AND GLULAM ON THIS PROJECT ARE PRESSURE TREATED WITH PENTACHLOROPHENOL WHICH ADDRESS A SERIOUS AND COSTLY SERVICE LIFE. WORKERS SHOULD USE COMMON SENSE IN HANDLING THESE TREATED TIMBERS. AVOID DIRECT SKIN CONTACT WITH THE PRESERVATIVE BY WEARING RUBBER WORK GLOVES, LONG SLEEVE SHIRTS, AND LONG PANTS. WHEN TREATED WOOD IS FIELD FABRICATED, WORKERS SHOULD ALSO WEAR A FACE MASK AND GOGGLES.

TIMBER TREATED WITH PENTACHLOROPHENOL MAY EXHIBIT A BLOOMING OF OILED CRYSTALS ON THE WOOD SURFACES FOR SEVERAL WEEKS AFTER INSTALLATION. THESE CRYSTALS CAN BE BRUSHED OR WASHED OFF THE SURFACES OF THE BRIDGE, SUCH AS RAILING OR OTHER SURFACES SUBJECT TO PUBLIC CONTACT. THE BLOOMING WILL DISCONTINUE AS THE TIMBER REACHES EQUILIBRIUM WITH THE ATMOSPHERIC CONDITIONS.

IT MAY BE DIFFICULT TO APPLY CERTAIN PAINT OR STAIN FINISHES TO PRESSURE TREATED TIMBERS. TIMBER TREATED WITH LIGHT SOLVENT PENTACHLOROPHENOL, WHICH HAS BEEN COMPLETELY DRIED, MAY BE PAINTED OR STAINED. THE BEST RESULTS ARE OBTAINED USING A PENETRATING PIGMENTED STAIN THAT DOES NOT FORM A COATING ON THE WOOD SURFACES.

IF BRIDGE MATERIAL IS TO BE SOON FILLED AT THE SITE, IT MUST BE STORED ABOVE GROUND ON SUPPORTS APPROXIMATELY EVERY 8 FEET. IF THE MATERIAL IS STORED IN A WET, DRY CLIMATE, IT MUST ALSO BE COVERED WITH PLYWOOD OR OTHER MATERIAL TO PROTECT IT. FAILURE TO STORE AND COVER MAY CAUSE WARPING AND EXCESSIVE SEASONING CRACKS.

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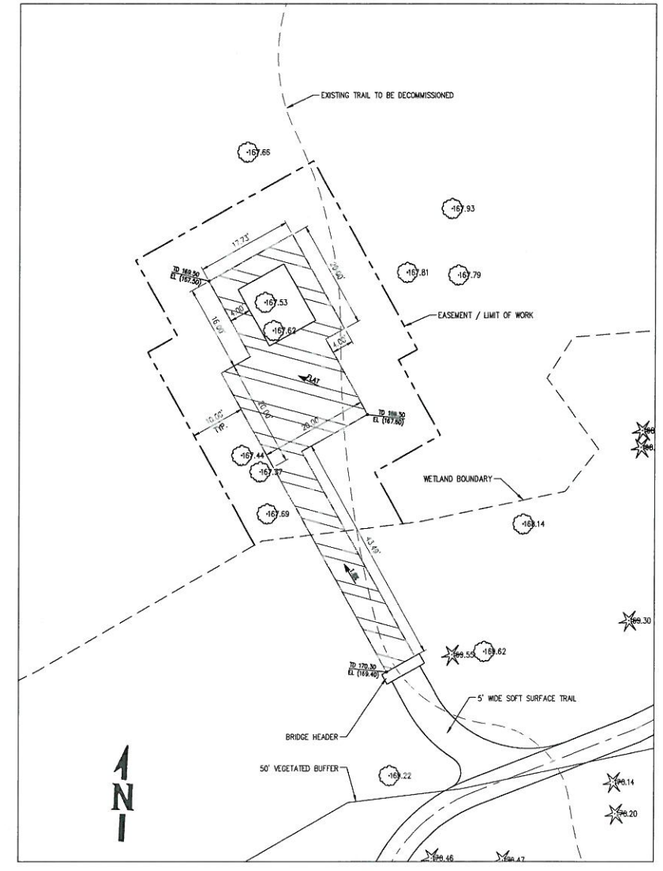
DATE PLOTTED: 11/05/14 ZA

FORESTED WETLAND OVERLOOK DETAIL
SCALE N.T.S.
1 / C3.9



FORESTED WETLAND OVERLOOK SITE PLAN
SCALE: 1" = 10'
2 / C3.9

BOARDWALK 2

PRELIMINARY PLANS PROVIDED FOR DESIGN INTENT. BOARDWALKS TO BE CONTRACTOR DESIGNED AND INSTALLED. CONTRACTOR TO SUBMIT FINAL SHOP DRAWINGS AND STRUCTURAL CALCULATIONS FOR APPROVAL AND BUILDING PERMIT SUBMITTAL.

BID SET - 8/31/15

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REVISIONS: NO. | BY | DATE | REMARKS

SHEET INFO: DESIGNED — | DRAWN — | CHECKED — | APPROVED — | LAST EDIT 8/28/2015 | PLOT DATE 8/31/2015 | SUBMITTAL | SCALE ---

FORESTED WETLAND OVERLOOK DETAILS

CITY OF TIGARD
DIRKSEN NATURE PARK - PHASE II

PROJECT NUMBER P0003315W
DRAWING FILE NAME 035975-C-DT05

SHEET NUMBER C3.9

[DATE: 8/31/2015 5:06 PM] [AUTHOR: swimpson] [PLOTTER: DWG To PDF.pc3] [STYLE: WHP-Standard.ctb]
[PATH: P:\City of Tigard\035975\Design\Drawings\Landscape\PERMIT SET_PHASE 2\035975-C-DT05.dwg] [LAYOUT: C3.9 BOARDWALK DETAILS]