



Wisconsin Department of Transportation

April 5, 2017

Division of Transportation Systems Development

Bureau of Project Development
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NOTICE TO ALL CONTRACTORS:

**Proposal #36: 8590-01-73, WISC 2017 177
Bruce - Radisson
B-54-0008/B-54-0021/ B-54-0022
STH 40
Rusk County**

Letting of April 11, 2017

This is Addendum No. 02, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
20	Helical Tieback Anchors, Item SPV.0060.02

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
97	Structure B-54-8 Sheet 2 of 2 (added galvanized steel component requirements, added cold galvanized requirement after welding, adjusted welding symbols)

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 02

8590-01-73

April 5, 2017

Special Provisions

20. Helical Tieback Anchors, Item SPV.0060.02.

*Add the following under section titled **A.1 References**:*

ASTM A123 - Standards Specifications for Zinc (Hot-Dip Galvanized) Coating on Iron and Steel Products.

ASTM A153 - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.

ASTM A385 - Standard Practice for Providing High Quality Zinc Coatings (Hot Dip).

*Add the following after paragraph one under section titled **B Materials**:*

Conform to ASTM A385 for fabricating zinc coated work.

Zinc coat all hardware in accordance with ASTM A153, Class C.

Zinc coat the remainder of the components in accordance with ASTM A123.

*Replace paragraph two under section titled **E Payment** with the following:*

Payment is full compensation for preparing and providing all submittals; for any excavation required; for any coring, patching, and grouting existing concrete at anchor locations; and for furnishing and installing all materials, and for testing helical tieback anchors.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

Revised: 97

END OF ADDENDUM

Addendum No. 01
ID 8590-01-73
Revised Sheet 97
April 5, 2017

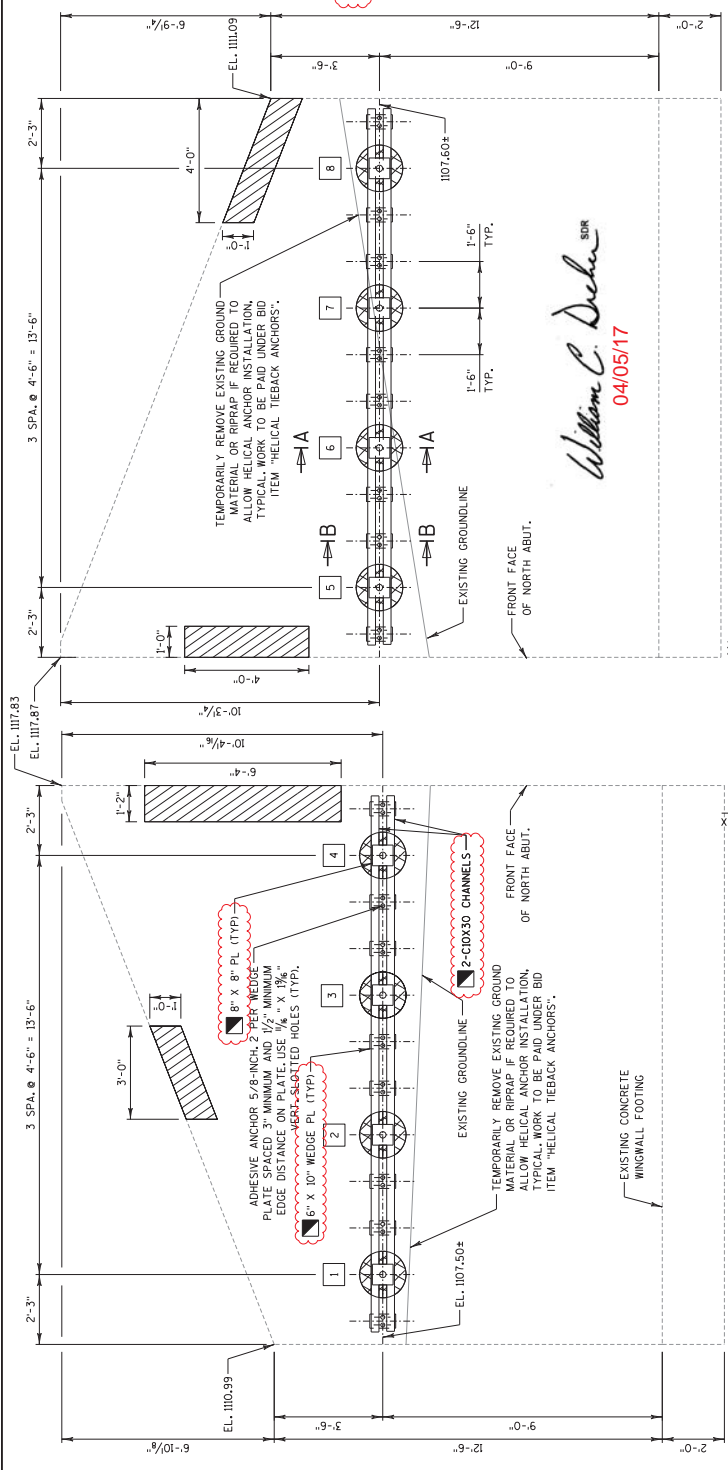
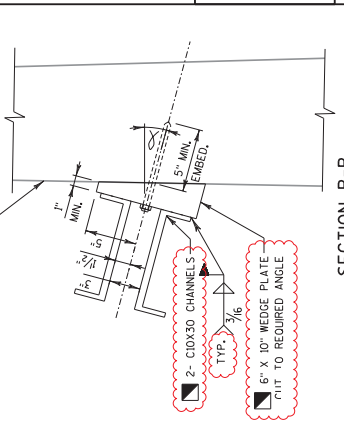
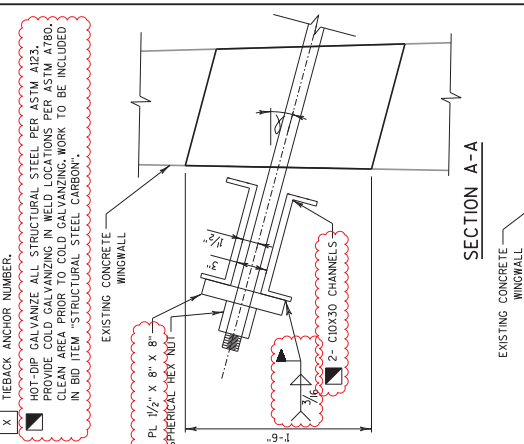
STATE PROJECT NUMBER
8590-01-73

CONCRETE SURFACE REPAIR REQUIRED. LOCATIONS AND DIMENSIONS OF SPALL AREAS ARE APPROXIMATE AND SHOULD BE USED AS A GUIDE ONLY. AREAS TO BE DETERMINED BY ENGINEER IN THE FIELD.

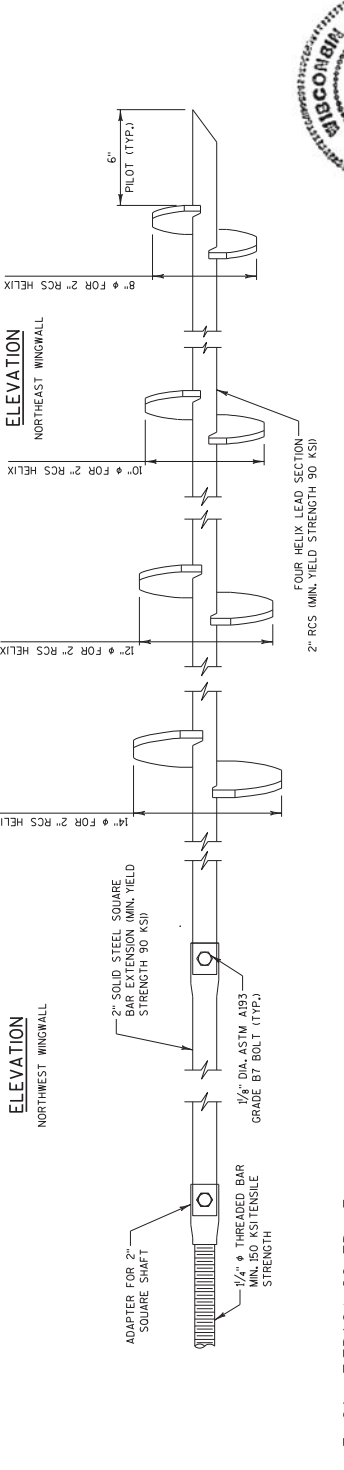
1'-6" CORED HOLE IN WINGWALL FILL CORE WITH GENEROUS GROUT AFTER FULL TORQUING OF ANCHOR (TYP.). WORK TO BE PAID UNDER BID ITEM "HELICAL TIEBACK ANCHORS".

TIEBACK ANCHOR NUMBER.

NOT-TO-SCALE GALVANIZE ALL STRUCTURAL STEEL PER ASTM A193. PROVIDE COLD GALVANIZING IN WELD LOCATIONS PER ASTM A170. CLEAN AREA PRIOR TO COLD GALVANIZING. WORK TO BE INCLUDED IN BID ITEM "STRUCTURAL STEEL CARBON".



William C. Decker
 SDR
 04/05/17



HELICAL TIEBACK ANCHOR DETAIL

NOTES:

MINIMUM ANCHORED LENGTH IS MINIMUM DISTANCE FROM BACK FACE OF WALL TO LARGEST HELICAL PLATE IN ORDER TO ACHIEVE REQUIRED GEOTECHNICAL CAPACITY.

EACH COUPLING CONNECTION AND ALL ASSOCIATED HARDWARE SHALL BE CAPABLE OF TRANSMITTING THE MINIMUM ANCHOR CAPACITY.

THE DESIGN LOAD IS A FACTORED LOAD USING AASHTO LRFD LOAD FACTORS.

ANY LOAD TEST PERFORMED MUST BE ON TIEBACK ANCHORS 1, 2, 7, OR 8.

NOT-TO-SCALE GALVANIZE HELICAL ANCHORS PER ASTM A193. WORK INCLUDED IN BID ITEM "HELICAL TIEBACK ANCHORS".

HELICAL TIEBACK SCHEDULE

TIEBACK NO.	TIEBACK ELEVATION (FEET)	RECOMMENDED MINIMUM SHAFT SIZE	TIEBACK VERTICAL ORIENTATION (DEGREES)	TIEBACK HORIZONTAL ORIENTATION (DEGREES)	MINIMUM ANCHORED LENGTH (FEET)	MINIMUM ANCHOR CAPACITY (KIPS)	DESIGN LOAD CAPACITY (KIPS)
1	1107.50	2"	15	90	30	75	50
2	1107.50	2"	15	90	30	105	70
3	1107.50	2"	15	90	35	135	90
4	1107.50	2"	25	90	35	160	105
5	1107.60	2"	25	90	35	160	105
6	1107.60	2"	25	90	30	105	70
7	1107.60	2"	25	90	30	105	70
8	1107.60	2"	25	90	30	75	50

NO.	DATE	REVISION	BY
1	4/5/17	GALVANIZING AND WELD NOTE	DRB
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-54-8			
DRAWN BY		TEO	FRANK MOR
CHECKED BY		TEO	FRANK MOR
HELICAL TIEBACK ANCHOR DETAILS			SHEET 2 OF 2
			97

