



Wisconsin Department of Transportation

February 6, 2018

Division of Transportation Systems Development

Bureau of Project Development
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NOTICE TO ALL CONTRACTORS:

Proposal #07: 2030-14-70, WISC 2018 086
108th St, City of West Allis
Hank Aaron State Trail, B-40-107/108
STH 100
Milwaukee County

Letting of February 13, 2018

This is Addendum No. 01, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
3	Prosecution and Progress
4	Traffic
6	Utilities
7	Other Contracts
86	Management of Solid Waste, Item SPV.0195.0700

Added Special Provisions	
Article No.	Description
87	Removing Communication Vault, Item 204.9060.S.2000
88	Concrete Pavement Fast Track 8-Inch, Item 415.1150.S.0001; Concrete Pavement Fast Track 9-Inch, Item 415.1150.S.0002
89	Install Conduit Into Existing Item, Item 652.0700.S
90	Traffic Control Close-Open Freeway Exit Ramp, Item SPV.0060.0400
91	Fence Decorative Bridge, Item SPV.0090.4400; Fence Decorative Wing, Item SPV.0090.4405
92	MMSD Sanitary Sewer Televising, Item SPV.0090.5100

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
204.0100	Removing Pavement	SY	3,090	-1,976	1,114
204.0120	Removing Asphaltic Surface Milling	SY	285	1,272	1,557
204.0150	Removing Curb and Gutter	LF	1,417	518	1,935
205.0100	Excavation Common	CY	2,970	-1,019	1,951
210.1500	Backfill Structure Type A	TON	1,548	140	1,688
305.0120	Base Aggregate Dense 1 ¼ - Inch	TON	3,156	-740	2,416
312.0115	Select Crushed Material	CY	1,617	-898	719
415.0080	Concrete Pavement 8-Inch	SY	730	-539	191
455.0605	Tack Coat	GAL	158	213	371
502.0100	Concrete Masonry Bridges	CY	183	28	211
502.3200	Protective Surface Treatment	SY	2,136	8	2,144
502.4205	Adhesive Anchors No. 5 Bar	EA	225	225	450
502.4206	Adhesive Anchors No. 6 Bar	EA	97	4	101
502.4208	Adhesive Anchors No. 8 Bar	EA	10	-5	5
505.0400	Bar Steel Reinforcement HS Structures	LB	12,480	-140	12,340
505.0600	Bar Steel Reinforcement HS Coated Structures	LB	180,650	5,190	185,840
516.0500	Rubberized Membrane Waterproofing	SY	30	20	50
623.0200	Dust Control Surface Treatment	SY	5,914	-2,120	3,794
624.0100	Water	MGAL	18	-5	13
643.0300	Traffic Control Drums	DAY	24,050	-1,998	22,052
643.0420	Traffic Control Barricades Type III	DAY	2,284	-235	2,049
643.0705	Traffic Control Warning Lights Type A	DAY	4,567	-754	3,813
643.0715	Traffic Control Warning Lights Type C	DAY	3,888	-749	3,139
643.0800	Traffic Control Arrow Boards	DAY	341	-40	301
643.0900	Traffic Control Signs	DAY	9,778	-214	9,564
643.0910	Traffic Control Covering Signs Type I	EA	14	-4	10
643.1050	Traffic Control Signs PCMS	DAY	730	3	733
649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	20,012	-11	20,001
652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	1,771	510	2,281
690.0150	Sawing Asphalt	LF	208	-66	142
SPV.0195.0700	Management of Solid Waste	TON	1,210	-115	1,095

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
204.9060.S.2000	Removing Communication Vault	EA	0	2	2
415.1150.S.0001	Concrete Pavement Fast Track 8-Inch	SY	0	416	416
415.1150.S.0002	Concrete Pavement Fast Track 9-Inch	SY	0	192	192
460.6223	HMA Pavement 3 MT 58-28 S	TON	0	274	274
460.6224	HMA Pavement 4 MT 58-28 S	TON	0	245	245
502.2000	Compression Joint Sealer Preformed Elastomeric 2 ¼ - Inch	LF	0	163	163
652.0700.S	Install Conduit Into Existing Item	EA	0	2	2
655.0510	Electrical Wire Traffic Signals 12 AWG	LF	0	375	375

673.0105	Communication Vault Type 1	EA	0	1	1
SPV.0060.0400	Traffic Control Close-Open Freeway Exit Ramp	EA	0	1	1
SPV.0090.4400	Fence Decorative Bridge	LF	0	170	170
SPV.0090.4405	Fence Decorative Wing	LF	0	47	47
SPV.0090.5100	MMSD Sanitary Sewer Televising	LF	0	1,692	1,692

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
415.1080	Concrete Pavement HES 8-Inch	SY	1,593	-1,593	0
415.1090	Concrete Pavement HES 9-Inch	SY	192	-192	0
460.6424	HMA Pavement 4 MT 58-28 H	TON	56	-56	0
502.4204	Adhesive Anchors No. 4 Bar	EA	24	-24	0
513.4091.4008	Railing Tubular Screening B-40-107	LF	175	-175	0

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
3	Revised General Notes, HMA Pavement Table, and Order of Section 2 Detail Sheets
7	Revised Pavement Structure, Reconstruction Limits, and Concrete Pavement Type
8	Revised Concrete Pavement Type
10	Revised Pavement Structure, Reconstruction Limits, and Concrete Pavement Type
11	Removed Detail for Matching Existing Pavement at BOP
18	Revised Removing Pavement, Removing Curb & Gutter, and Asphaltic Surface Milling Limits
21	Revised Pavement Structure, Reconstruction Limits, and Pavement Types
22	Revised Pavement Structure, Reconstruction Limits, and Pavement Types
23	Revised Pavement Surface Grades
29	Revised Storm Sewer Structure Rim Elevations
41	Revised Stage 2A – Eastbound Exit Ramp Closure
60	Revised Stage 2A – Eastbound Exit Ramp Closure
71	Revised Stage 2A – Eastbound Exit Ramp Closure
74	Revised Stage 2A – Eastbound Exit Ramp Closure
89	Revised Removal Quantities
91	Revised Sawing Quantities
92	Revised Earthwork Summary
93	Revised Aggregate and Concrete Pavement Items
94	Revised Asphalt, Dust Control, and Water Items
96	Revised Adjusting Sanitary Manhole Proposed Rim Elevation
97	Revised Storm Sewer Structure Rim Elevations
99	Revised Quantity for the Management of Solid Waste
101	Revised Traffic Control Items; New Item Added for MMSD Sanitary Sewer Televising
102	Revised Traffic Control Quantities
103	Revised Traffic Control Quantities
104	Revised Traffic Control Quantities
117	Revised Profile and Area Identifying Solid Waste Soil
118	Revised Profile and Area Identifying Solid Waste Soil
247	B-40-107 Updated List of Drawings
249	B-40-107 Revised Quantity Table
253	B-40-107 Revised Removal Limits
254	B-40-107 Revised Removal Limits

255	B-40-107 Existing Abutment Backwall Replacement
256	B-40-107 Existing Abutment Backwall Replacement
257	B-40-107 Existing Abutment Backwall Replacement
258	B-40-107 Existing Abutment Backwall Replacement
259	B-40-107 Revised Fence Post Spacing
267	B-40-107 Revised Stage Numbering
268	B-40-107 Revised Stage Numbering
270	B-40-107 Revised Stage Numbering and Abutment Backwall
271	B-40-107 Revised Stage Numbering
273	B-40-107 Revised Abutment Backwall
275	B-40-107 Revised Fence Post Spacing
279	B-40-107 Revised Fencing Details
281	B-40-108 Revised Foundation Data
282	B-40-108 Backwall Removal Note Added
283	B-40-108 Revised Quantities
288	B-40-108 Revised Backwall Removal Limits
290	B-40-108 Added Backwall Details
291	B-40-108 Added Backwall Details
292	B-40-108 Revised Bill of Bars
293	B-40-108 Added Backwall Details
294	B-40-108 Added Backwall Details
295	B-40-108 Revised Bill of Bars
316	B-40-108 Revised Bolt Circle Diameter
319	Revised Earthwork Data
320	Revised Pavement Structure and Reconstruction Limits
321	Revised Pavement Structure and Reconstruction Limits
322	Revised Pavement Structure and Reconstruction Limits

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
10A	Temporary Widening Typical Section - Revised Pavement Structure, Reconstruction Limits, and Concrete Pavement Type
23A	Added FTMS/Communications Plan
79A	Added Detour Route for Eastbound Exit Ramp
79B	Added Detour Route for Eastbound Exit Ramp
107A	Added FTMS/Communications Quantities
204A	Add SDD for Traffic Control Exit Ramp Closure
279A	B-40-107 Decorative Fence Details
279B	B-40-107 Decorative Fence Details
279C	B-40-107 Decorative Fence Details
279D	B-40-107 Decorative Fence Details
279E	B-40-107 Decorative Fence Details

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. 01

2030-14-70

February 6, 2018

Special Provisions

3. Prosecution and Progress.

*Replace paragraph two under the section titled **Local Street Work Restrictions** with the following:*

STH 100 may be restricted to one-lane in each direction from 300' south of the Colder's Service Road to the IH 94 eastbound exit ramp to STH 100 (Ramp SC) and the IH 94 eastbound exit ramp to STH 100 (Ramp SC) may be closed, as shown in Stage 2A in the plans, for a onetime only continuous period within the weekend timeframe of 9:00 PM Friday night to 5:30 AM Monday morning to facilitate construction of the concrete and HMA pavement on STH 100. This closure will only be allowed after 12:01 AM on June 27, 2018 or as approved by the engineer.

4. Traffic.

*Replace paragraph four under the section titled **Schedule of Operations** with the following:*

Stage 2A Traffic:

- STH 100 northbound and southbound reduced to one lane from the IH 94 eastbound exit ramp to STH 100 (Ramp SC) to 300' south of the Colder's Service Road for a onetime only continuous period within the weekend timeframe of 9:00 PM Friday night to 5:30 AM Monday morning. This closure will only be allowed after 12:01 AM on June 27, 2018 or as approved by the engineer.
- The IH 94 eastbound exit ramp to STH 100 (Ramp SC) is closed.
- The IH 94 westbound exit ramp to STH 100 (Ramp SA) southbound is closed.
- Bluemound Road westbound left-turn to STH 100 southbound is reduced to two lanes.

6. Utilities.

*Replace paragraph one under the section titled **American Transmission Company (ATC)** with the following:*

American Transmission Company (ATC) has six overhead 138kV electric transmission lines beginning beyond the westerly project limits and running southeasterly along the south side of eastbound IH 94, crossing STH 100 between Station 566SS+19 and Station 568SS+00, and continuing southeasterly to beyond the easterly project limits. These lines will remain in place without adjustment. Coordinate construction activities with ATC. Due to outage constraints for the multi-state electric grid, these transmission lines cannot be de-energized during construction. Use caution when operating overhead equipment in this area and maintain OSHA safe working clearance to the overhead conductors at all times. Notify ATC 48 hours before beginning any work within or around overhead electric transmission lines.

7. Other Contracts.

Replace entire article language with the following:

Coordinate your work in accordance to standard spec 105.5.

It is expected that routine maintenance by the city and county personnel may be required at certain times concurrently with the work being done under this contract.

The following contracts are anticipated to be under construction within the time period of this contract, unless otherwise indicated:

Contract ID 1060-33-81, Zoo Interchange Phase 2 reconstruction. The WisDOT contact is Mike Burns at (414) 750-1413; mike.burns@dot.wi.gov.

Contract ID 1060-33-82, IH 94 Auxiliary Lanes reconstruction from Moorland Road to Underwood Parkway. The WisDOT contact is Sean Race at (414) 750-2380; sean.race@dot.wi.gov.

Contract ID 1060-35-81, Zoo IC Landscaping. The WisDOT contact is Mike Burns at (414) 750-1413; mike.burns@dot.wi.gov.

Contract ID 1060-33-96, Zoo IC – Advanced Signing Projects; various locations. The WisDOT contact is Christopher Hager at (414) 750-1487; christopher.hager@dot.wi.gov.

Contract ID 1100-34-70, IH 894 reconstruction from 84th Street to National Avenue. The WisDOT contact is Sara Feuling at (414) 750-0579; sara.feuling@dot.wi.gov.

86. Management of Solid Waste, Item SPV.0195.0700.

*Replace paragraph three under the section titled **A.2 Notice to the Contractor – Solid Waste Locations** with the following:*

2. Station 563+90 to 564+90, from reference line to project limits right, from 0 to 14 feet below grade. Soil excavated from this area will require off-site disposal as solid-waste. The estimated volume of contaminated soil to be excavated at this location is 206 cubic yards (approximately 351 tons using a conversion factor of 1.7 tons per cubic yard).

87. Removing Communication Vault, Item 204.9060.S.2000.

A Description

This special provision describes removing an existing communication vault.

B Materials

Materials include existing communication vault and restoration materials such as backfill, topsoil, seeding, mulch, and fertilizer in accordance to the pertinent provisions of sections 201, 625, 627, 629, 630, 636, and 640 of the standard specifications.

C Construction

Disconnect and cap conduit entering the communication vault. Remove and dispose of the communication vault. Backfill with material similar to the material surrounding the removal and restore the disturbed area by placing 4-inches of topsoil, and fertilize, seed, and mulch all disturbed areas in accordance to the pertinent requirements of the standard specifications.

It is acceptable to re-use the vault lid in instances where new communications vaults are being installed in the project and the existing lid is undamaged. It is the contractor's responsibility to determine if the existing vault lids fit on the proposed vaults.

D Measurement

The department will measure removing communication vault by the unit, removed from the ground, removed from the project site, and the disturbed area restored in accordance to the contract.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.2000	Removing Communication Vault	Each

Payment is full compensation for removing and disposing of a communication vault; for backfill, topsoil, fertilizer, seed and mulch.

88. Concrete Pavement Fast Track 8-Inch, Item 415.1150.S.0001; Concrete Pavement Fast Track 9-Inch, Item 415.1150.S.0002.

A Description

This special provision describes construction of fast track concrete pavement in accordance to the standard specifications, as shown on the plans, and as hereinafter provided.

B Materials

B.1 Concrete Mixtures

Concrete mix design shall be the responsibility of the contractor. Delete standard spec 501.2.5.4.4 and standard spec 501.3.2.3. Chloride based accelerators shall be prohibited from use in fast track concrete pavement. Any chemical admixture(s) to be used, other than air-entraining agents or water reducers from the department's approved list, must be approved in advance by the engineer. The water-cement ratio of the concrete mixture shall not exceed 0.40.

C Construction

C.1 Opening to Traffic

Delete standard spec 415.3.15 and replace with the following:

Fast track concrete pavement must attain a minimum compressive strength of 3500 psi before it can be opened to traffic. The compressive strength shall be measured by testing concrete cylinders cured in the field on top of the slab, under the curing blanket.

At least two cylinders shall be tested in determining the attained strength of fast track concrete pavement for the purpose of opening the pavement to traffic. The average of test results for the two cylinders shall be used to determine compliance, except that neither cylinder may be less than 10 percent below the required strength.

If opening is not controlled by cylinders, cores may be substituted.

C.2 Test Equipment

In the field laboratory, provide a compressive test machine for use by department staff, and all equipment and materials necessary to perform compressive testing. The compressive test machine shall be an electrically powered unit with an minimum capacity of 200,000 lbs, and shall meet all requirements of ASTM C39. After the machine is set in place in the field laboratory on the project, provide calibration by a qualified vendor in accordance to all requirements of ASTM E4. This vendor shall provide the engineer with a Certificate of Calibration. Recalibration shall be required under any of the conditions covered in section 5.1.1 of ASTM C39. The contractor will be allowed access to the field laboratory to use the machine for preliminary mix design testing for fast track concrete.

C.3 Concrete Mix Approval Procedure

The following activities shall be completed in advance of the paving date.

1. Perform preliminary laboratory and/or field trial batching to establish the mix proportions necessary to meet the anticipated necessary age-strength properties.
2. Submit an action plan to the engineer for the specified closure period, which shall include the amount of time to be allowed for concrete curing at the conclusion of paving. Also submit to the engineer, at the same time, a proposed mix design (including specific sources and/or trade names as applicable for all materials) for formal mix design acceptance testing using a full scale field trial batch.
3. Execution of the formal full-scale field trial batch for mix design acceptance shall not commence until the engineer has approved the action plan and all components of the proposed mix design.
4. Under supervision of the engineer, cast a test slab of the same thickness as the actual fast track concrete work required on the project. The test slab shall be cast under similar environmental conditions as the actual fast track concrete work required on the project, subject to the approval of the engineer. The test slab shall consist of at least one full batch from the plant that will provide concrete for the project. Department project staff shall cast test cylinders from this batch, and the cylinders shall be cured laying down on top of the test slab under the same type of insulated blanket that will be used for the project. Department staff shall test these cylinders in pairs as the end of the designated curing time approaches, to determine the curing time required to reach the required 3500 psi compressive strength. If the required strength is not reached within the curing time allowed in the action plan, the contractor shall modify the mix and repeat the mix acceptance test. Once a mix design is accepted, all components and proportions of the mix must remain the same for all fast track concrete work on the project, with the exception of minor adjustments of water and air-entraining agent as necessary, or the mix acceptance test must be repeated.

Trial slabs cast for preliminary or formal testing may be cast offsite, or incorporated in the work in place of standard concrete pavement, subject to approval of the engineer. Any test slabs so incorporated in the work must meet pertinent requirements for standard concrete pavement, and the contractor shall be paid the bid unit price for standard concrete pavement of the same nominal thickness. Any test slabs cast offsite shall become the property of the contractor.

C.4 Curing Blankets

As soon as possible after surface texturing and application of curing compound and without damage to the pavement surface, cover the concrete with impermeable insulating blankets with an R value of at least 0.09. The blankets shall remain in place until the concrete has reached 3500 psi compressive strength. The blankets may be temporarily turned back for the minimum time necessary to facilitate joint sawing.

D Measurement

The department will measure Concrete Pavement Fast Track (inch) by area in square yards, completed in accordance with the contract and accepted.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
415.1150.S.0001	Concrete Pavement Fast Track 8-Inch	SY
415.1150.S.0002	Concrete Pavement Fast Track 9-Inch	SY

Payment is full compensation for furnishing and calibrating test equipment; developing mix designs; placing test slabs and furnishing test slab materials when placed offsite; furnishing, hauling, preparing, placing, curing, and protecting of all materials except pavement ties and dowel bars which are installed in the existing concrete pavement; sawing joints; preparing the foundation; and backfilling.

stp-415-010 (20110615)

89. Install Conduit Into Existing Item, Item 652.0700.S.

A Description

This special provision describes installing proposed conduit into an existing manhole, pull box, junction box, communication vault, or other structure.

B Materials

Use conduit as provided and paid for under other items in this contract. Furnish backfill material, topsoil, fertilizer, seed, and mulch conforming to the requirements of pertinent provisions of the standard specifications.

C Construction

Expose the outside of the existing structure without disturbing existing conduits or cabling. Drill the appropriate sized hole for the entering conduit(s) at a location within the structure without disturbing the existing cabling and without hindering the installation of new cabling within the installed conduit. Fill void area between the drilled hole and conduit with an engineer-approved filling material to protect against conduit movement and entry of fill material into the structure. Tamp backfill into place.

D Measurement

The department will measure Install Conduit Into Existing System by the unit, acceptably installed. Up to five conduits entering a structure per entry point into the existing structure will be considered a single unit. Conduits in excess of five, or conduits entering at significantly different entry points into the existing pull box, manhole, or junction box will constitute multiple units of payment.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
652.0700.S	Install Conduit Into Existing Item	Each

Payment is full compensation for excavating, drilling holes; furnishing and installing all materials, including bricks, coarse aggregate, sand, bedding, and backfill; for excavating and backfilling; and for furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for properly disposing of surplus materials; and for making inspections.

stp-652-070 (20100709)

90. Traffic Control Close-Open Freeway Exit Ramp, Item SPV.0060.0400.

A Description

This item shall consist of furnishing the labor and equipment required for fully closing and subsequently opening a freeway exit ramp in accordance to standard spec 643, the plans, and as directed by the engineer. Drums, barricades and signs may remain along the roadway when the exit ramp is open to traffic. Signs shall not be visible to traffic when the ramp is open. Drums, barricades and signs will be paid for separately under the various traffic control items.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Traffic Control Close-Open Freeway Exit Ramp by each individual traffic control, close-open freeway ramp, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0400	Traffic Control Close-Open Freeway Exit Ramp	Each

Payment is full compensation for furnishing the labor and equipment for fully closing and subsequently opening a freeway exit ramp.

91. Fence Decorative Bridge, Item SPV.0090.4400; Fence Decorative Wing, Item SPV.0090.4405.

A Description

This special provision describes fabricating, galvanizing, polymer coating, painting, delivering and installing decorative fencing on bridge superstructures, wing walls, and retaining walls in accordance to the plans, the pertinent provisions of the standard specifications, and as hereinafter provided.

B Materials

B.1 General

Utilize only materials meeting the requirements as shown on the plans and the applicable provisions of the standard specifications as follows:

- Structural Steel: section 506.2.2
- Steel Mesh: section 505.2.5
- Painting: section 517.2 and 517.3

Blast clean steel prior to fabrication, per SSPC-SP 6 and galvanize according to ASTM A 123. Supply all bolts, nuts and washers as factory galvanized according to ASTM A 153. Repair zinc coating damaged during fabrication as specified in standard spec 513.3.3(3). Grind the welded joints shown in the plans to a smooth finish.

Steel preparation includes the chamfering of sharp edges. Flatten all sharp edges by a single pass of a grinder or suitable device along the sharp edge. Condition any thermal cut edges before blast cleaning by shallow grinding or other cleaning to remove any hardened surface layer. Remove all evident steel defects exposed in accordance to AASHTO M 160 prior to blast cleaning.

Construct the fence fabric of 8 GA. 2-inch by 2-inch welded wire mesh galvanized to ASTM A 123 and then covered with a polymer-coating conforming to the following requirements:

Thickness of Polymer-Coating:	ASTM F668
Adhesion:	ASTM F668
Accelerated Aging Test:	ASTM F668, D1499
Mandrel Bend Test:	ASTM F668

Construct the polymer-coating of a dense impervious covering applied without voids, tears or cuts that reveal the galvanized mesh substrate. Visible roughness, bubbles, blisters and flaking in the polymer coating will be a basis for rejection. Utilize polymer-coating with color as specified in B.3 and conforming to the requirements of ASTM F934. Place the vertical wires of the mesh on the inside face (pedestrian / traffic side) of the fence.

B.2 Painting

Clean all galvanized surfaces to be painted per SSPC-SP1 to remove chlorides, sulfates, zinc salts, oil, dirt, organic matter and other contaminants. Then brush blast clean the cleaned galvanized surface per SSPC-SP7 to create a slight angular surface profile (1.0 – 1.5 mils suggested) for paint

adhesion. Do not fracture the galvanized finish or remove any dry film thickness during the brush blast cleaning process.

After cleaning provide a tie coat from an approved coating system that is specifically intended to be used on a galvanized surface. The tie coat shall etch the galvanized surface and prepare the surface for the top coat. Apply a top coat matching the specified color. Utilize a contrasting color for the tie and top coats. Use a pre-approved top coat that is resistant to the effects of the sun, and is suitable for use in a marine environment. Paint the various decorative fence components with the tie and top coats before final assembly of the fence panels. Do not damage the painted surface during panel assembly or fence installation.

Use one of the qualified paint sources and products given below. An equivalent system may be used with the written approval of the engineer.

Producer	Coat	Products	Dry Film Minimum Thickness (mils)	Minimum Time Between Coats (hours)
Sherwin Williams 1051 Perimeter Drive, Suite 710 Schaumburg, IL 60173 847.330.1562	Tie	Recoatable Epoxy Primer B67-5 Series/B67V5	2.0 to 4.0	6
	Top	Acrolon 218 HS Polyurethane, B65-650	2.0 to 4.0	NA
Carboline 350 Hanley Industrial St. Louis, MO 63144 314.644.1000	Tie	Rustbond Penetrating Sealer FC	1	36
	Top	Carboline 133 LH	4	NA
Wasser Corporation 4118 B Place NW Suite B Auburn, WA 98001	Tie	MC-Ferrox B 100	3.0 to 5.0	8
	Top	MC-Luster 100	2.0 to 4.0	NA

B.3 Color

Match Federal Color 27038 – Black, for the finished color for the coating system for decorative fencing.

C Construction

Provide shop drawings in accordance to the requirements of standard spec 506.3.2. Provide shop drawings containing material sizes and types, weld sizes and locations, and all necessary details, dimensions, and information to allow fabrication of the fence in conformance with the requirements of the contract. Obtain shop drawing review and acceptance prior to beginning fabrication.

Provide a full sized painted 6-foot by 10-foot long fence test panel. Deliver the test panel to the job site within 60 days of the award of the contract. Unload and set up the test panel in an area designated by the engineer. Obtain test panel acceptance prior to beginning fabrication of fences.

During construction and at the time of delivery the engineer will inspect the frame components. Obtain engineer acceptance of the product after the delivery is unloaded on the site. After the product is unloaded, signify in writing that the fence was received in acceptable condition per the engineer's inspection. Any damage to the fence panels after the acceptable delivery will be the responsibility of the installation contractor.

Conform all welding to the applicable requirements of standard spec 506. Obtain the approval of the engineer prior to any field welding, field cutting, or drilling.

Minimize the number and size of touch-up spots during construction. Follow the manufacturer's recommendations for damaged area repairs. Final acceptance will not be granted without engineer approval of the field paint appearance.

Provide the engineer with the name, address, and phone number of a representative of the fence fabricator for future coordination.

During handling, protect finish coating from damage. If damaged during handling, the fencing may be rejected by the engineer or engineer may direct the fabricator to repair the finish in accordance to the manufacturer's recommendations. Provide the engineer a copy of the manufacturer's recommended repair procedure and materials before repairing damaged coatings.

D Measurement

The department will measure Fence Decorative Bridge and Fence Decorative Wing by the linear foot acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.4400	Fence Decorative Bridge	LF
SPV.0090.4405	Fence Decorative Wing	LF

Payment is full compensation for cleaning, galvanizing, welding, fabricating, polymer-coating welded wire mesh, painting, assembling, furnishing, delivering and installing fence components, lighting access panels and test panel; for preparing shop drawings and for repairing zinc coating or damaged areas.

92. MMSD Sanitary Sewer Televising, Item SPV.0090.5100.

A Description

This special provision describes televising existing Milwaukee Metropolitan Sewerage District (MMSD) sanitary sewer lines in accordance with the Standard Specifications for Sewer and Water Construction in Wisconsin (SSSW), latest edition, and as hereinafter provided.

B Materials

Furnish television cameras, monitors, cables, power sources, lights, and related equipment designed and constructed for sewer inspection in accordance with SSSW 7.1.2.

C Construction

Contact Larry Anderson, (414) 225-2241, of MMSD at least 7 days in advance to coordinate access. Provide bypass pumping in compliance with all applicable codes and regulations as required at no additional cost to the owners. Discharge into storm sewers, open waterways, or on open ground is prohibited.

Prior to starting any television inspection, submit a copy of the proposed inspection log format to the engineer.

Televise existing MMSD sanitary sewers prior to the start of ground disturbing activities and bridge demolition. Televise the same existing MMSD sanitary sewers after the completion of ground disturbing activities and bridge construction or as directed by the engineer. The sanitary sewer lines to be examined include:

- 39-inch special section pipe located between STA 564SN+31, 4' RT and STA 564SN+31, 595' RT.
- 15-inch vitrified clay pipe located between STA 564SN+01, 49'RT and STA 566SN+57, 48' RT.

Perform televising in accordance to section 7.1.2 of the SSSW. Provide the engineer and MMSD with copies of the DVD examinations and reports of the sewers. These items will become the property of MMSD.

Minimize terrain damage where manholes are not located in roadways. Repair damage to ground surfaces caused by inspection operations.

D Measurement

The department will measure MMSD Sanitary Sewer Televising by the linear foot of sewer acceptably examined. The pipe will be measured horizontally to the nearest foot, from center-to-center of manholes.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.5100	MMSD Sanitary Sewer Televising	LF

Payment is full compensation for providing all materials and accessories required; for all coordination with MMSD; for bypass pumping; for all dewatering; for jetting; for all televising and examinations; for preparing and furnishing DVDs and reports; for repairing damage to ground surfaces; and for all incidentals necessary to complete work.

Schedule of Items

Attached, dated February 6, 2018, are the revised Schedule of Items Pages 1 - 16.

Plan Sheets

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

Revised: 3, 7, 8, 10, 11, 18, 21-23, 29, 41, 60, 71, 74, 89, 91-94, 96, 97, 99, 101-104, 117, 118, 247, 249, 253-259, 267, 268, 270, 271, 273, 275, 279, 281-283, 288, 290-295, 316, and 319-322.

Added: 10A, 23A, 79A, 79B, 107A, 204A, and 279A-E.

END OF ADDENDUM

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

ANY REINFORCEMENT LOCATED IN EXISTING CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM, AND NO ADDITIONAL COMPENSATION WILL BE GRANTED.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

NOTE: DUGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MANAGER UTILITY WHICH IS NOT A MEMBER OF THE DUGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE QUANTITY OF TOPSOIL IS COMPUTED FROM MEASUREMENTS BETWEEN THE SUBGRADE SHOULDER POINTS, AND THE SLOPE INTERCEPTS AS SHOWN ON THE CROSS SECTIONS PLUS 5 FEET FOR ROUNDING.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER. CURB AND GUTTER RADI ARE MEASURED TO THE FACE OF CURB AND GUTTER.

PROVIDE A TYPICAL SIDEWALK CROSS SLOPE OF 1.5% WITH A CONSTRUCTION TOLERANCE OF +/- 0.5%.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 6-INCH TYPICAL DEPTH THROUGHOUT THE PROJECT.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT.

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

RE TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED, WITHIN ONE YEAR, SEED, ESTABLISH AND MAINTAIN A GRASS COVER. AREAS AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL, IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN (04) CALENDAR DAYS. SEED THOSE AREAS WITH TEMPORARY SEED AND MULCH.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

EROSION CONTROL BMPs ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECP AND BY THE ENGINEER. EROSION CONTROL BMPs SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

FERTILIZER SHALL NOT BE USED WITHIN 100' OF NAVIGABLE WATERWAYS OR WETLANDS.

WHEN DEFINING THE PAVEMENT STRUCTURE, THE BOTTOM OF THE BASE AGGREGATE DENSE IS CONSIDERED THE SUBGRADE LINE. THE SELECT CRUSHED MATERIAL LAYER IS A SUBGRADE IMPROVEMENT.

1

THE EXACT LOCATION OF EXCAVATION BELOW SUBGRADE (EBS) WILL BE DETERMINED BY THE ENGINEER.

STANDARD ABBREVIATIONS

- AEW APRON END WALL
- AGG AGGREGATE
- ASPH ASPHALTIC
- BAD BASE AGGREGATE DENSE
- BM BENCH MARK
- C&G CENTER OF GRAVITY
- C&C CENTER OR CONSTRUCTION LINE
- CMGP CULVERT PIPE CORRUGATED METAL
- CONC CONCRETE
- CP CULVERT PIPE
- CPRC CONCRETE PIPE REINFORCED CONCRETE
- CSO CONCRETE SURFACE DRAIN
- CY CUBIC YARD
- D DEGREE OF CURVE
- DELTA
- DISCH DISCHARGE
- DN DOWN
- ENB EXISTING NOISE BARRIER
- FE FIELD ENTRANCE
- FL FLOW LINE
- HMA HOT MIX ASPHALT
- LN LENGTH OF CURVE
- LH LEFT HAND FORWARD
- LP LOW POINT
- LEFT
- LT
- MIN MINIMUM
- MB MESTBOUND
- NB NORTHBOUND
- NC NORMAL CROWN
- PAVT PAVEMENT
- PC POINT OF CURVE
- PCO POINT OF CURVING OVER
- PE PRIVATE ENTRANCE
- PI POINT OF INTERSECTION
- PQL PROFILE GRADE LINE
- PLE PERMANENT LIMITED EASEMENT
- PRO PROPOSED NOISE BARRIER
- PT POINT OF TANGENT
- PTC POINT OF TANGENT CURVE
- R RADIUS OF CURVE
- R/L RIGHT OF WAY
- R/W RIGHT HAND FORWARD
- RECD REQUIRED
- RECD APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
- RHF RIGHT HAND FORWARD
- RO RUN OFF LENGTH
- RSP RIGHT SIDE SHOULDER
- RTPSP RIGHT TRUCK PAVEMENT SHOULDER
- S&B SALVAGED ASPHALTIC PAVEMENT BASE COURSE
- S&PBC SALVAGED ASPHALTIC PAVEMENT BASE COURSE
- SOUTHBOUND
- STD STANDARD DETAIL DRAWING
- ST STATION
- SF SQUARE FOOT
- SSPRC STORM SEWER PIPE REINFORCED CONCRETE
- STA STATION
- SQUARE YARD
- SY SQUARE YARD
- TEMP TEMPORARY
- TLE TEMPORARY LIMITED EASEMENT
- VCL VERTICAL CURVE LENGTH
- VPC POINT OF VERTICAL CURVE
- VPI POINT OF VERTICAL INTERSECTION
- WPT POINT OF VERTICAL TANGENT
- WB WESTBOUND

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CONTACT THE PROJECT ENGINEER AND THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (SEARPC) AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

PROVIDE A CONCRETE JOINT DETAIL PLAN 14 DAYS PRIOR TO PAVING FOR APPROVAL BY THE ENGINEER. 15" MAXIMUM SPACING FOR LONGITUDINAL JOINTS.

CONCRETE PAVEMENT TYPING SHALL BE LONGITUDINAL.

VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS, CONTRACTOR IS TO NOTIFY ENGINEER.

ALL PRIVATE EXISTING UTILITIES ARE TO BE ADJUSTED BY THE UTILITIES CONCERNED.

DESIGN, PLANS, SPECIFICATIONS AND QUANTITIES FOR PERMANENT SIGNING PROVIDED BY WISDOT FOR CONSTRUCTION. DESIGN, PLANS, SPECIFICATIONS AND QUANTITIES FOR ALL REMAINING SIGNS PROVIDED BY, OR UNDER THE DIRECT SUPERVISION OF, RAPID & ASSOCIATES AND BLOOM COMPANIES.

1

DESIGN, PLANS, SPECIFICATIONS AND QUANTITIES FOR FTMS PROVIDED BY WISDOT STOC.

STORM SEWER TRENCH PAVEMENT RESTORATION SHALL BE CONSTRUCTED WITH HMA PAVEMENT 6.5" ON BASE AGGREGATE DENSE 1 1/4-INCH, 12-INCH AS SHOWN IN THE TABLE BELOW.

1

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS AND GRADATIONS:

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS	NOMINAL MAXIMUM SIZE GRADATION
4 MT 58-28 5	2.5"	ONE 2.5" LAYER	
4 MT 58-28 5	6.5"	2.5" UPPER LAYER 4" LOWER LAYER	
4 MT 58-28 5	7.5"	2.5" UPPER LAYER 2.5" MIDDLE LAYER 2.5" LOWER LAYER	
ASPHALTIC SURFACE TEMPORARY	5"	2" UPPER LAYER 3" LOWER LAYER	13.5 MM 15.0 MM

ORDER OF SECTION 2 DETAIL SHEETS

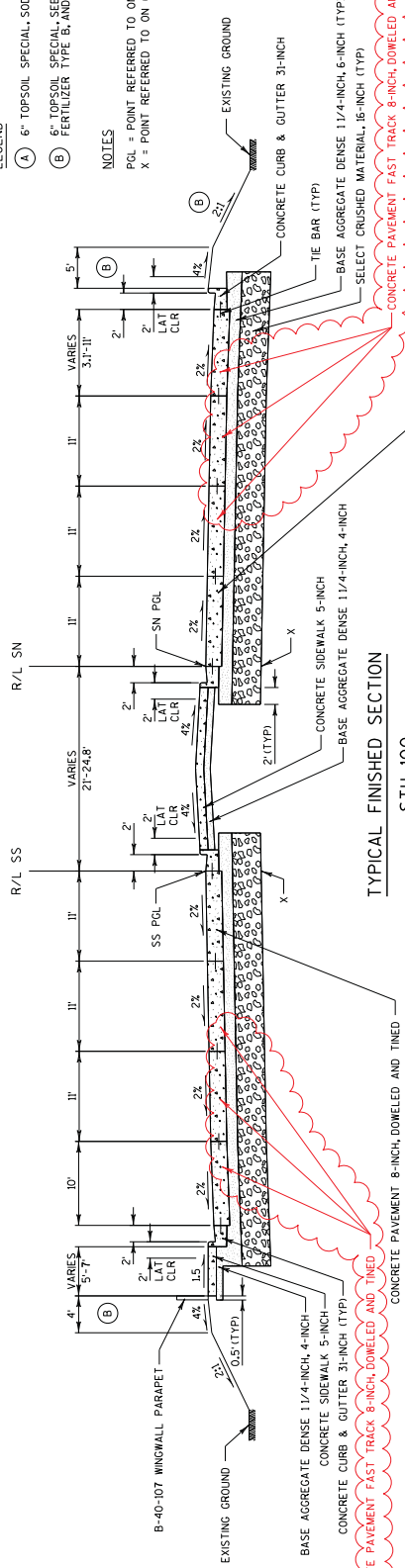
- GENERAL NOTES
- PROJECT OVERVIEW
- GENERAL NOTES
- REMOVAL PLANS
- PLAN DETAILS
- PAVING GRADES
- FTMS PLAN
- EROSION CONTROL
- STORM SEWER
- PERMANENT SIGNING
- LIGHTING PLANS
- TRAFFIC SIGNALS
- TRAFFIC SIGNALING
- TRAFFIC CONTROL
- ALIGNMENT LAYOUT

LEGEND

- (A) 6" TOPSOIL SPECIAL, SOD LAWN & FERTILIZER TYPE B
- (B) 6" TOPSOIL SPECIAL, SEEDING MIXTURE NO. 20, FERTILIZER TYPE B, AND MULCH/EROSION MAT

NOTES

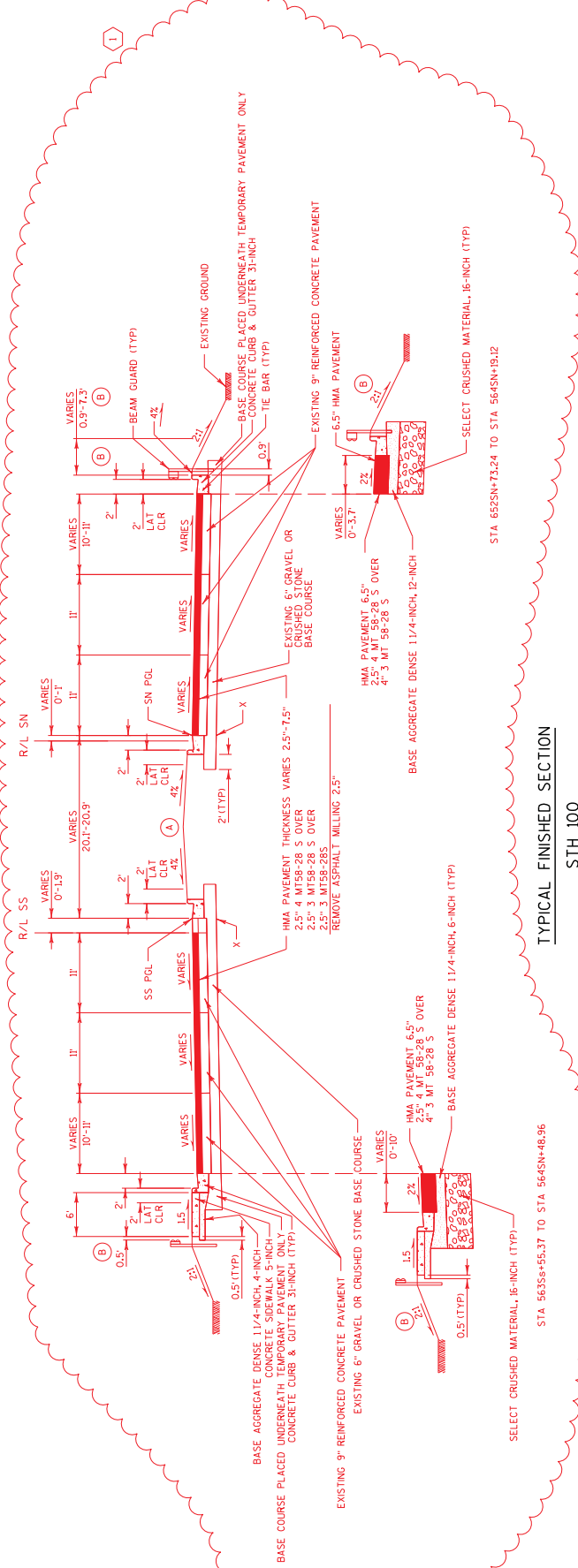
POL = POINT REFERRED TO ON PROFILE
 X = POINT REFERRED TO ON CROSS-SECTION



TYPICAL FINISHED SECTION
 STH 100
 STA 566SN+60.10 TO STA 567SN+24.98

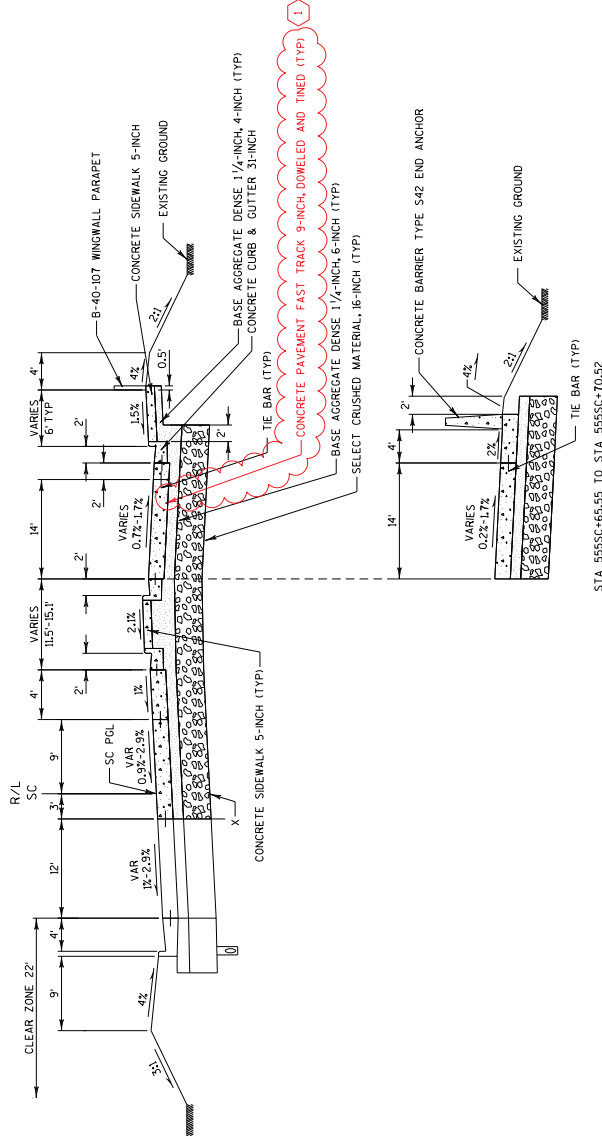
1 CONCRETE PAVEMENT FAST TRACK 8-INCH, DOWELED AND TINED

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TYPICAL FINISHED SECTION
 STH 100
 STA 563SN+55.37 TO STA 564SN+48.96

1 STA 565SN+00.00 TO STA 564SN+48.96



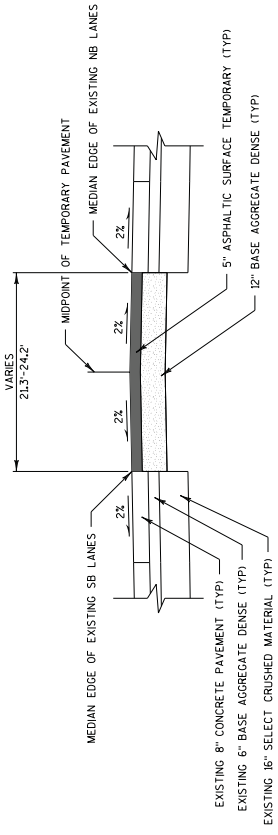
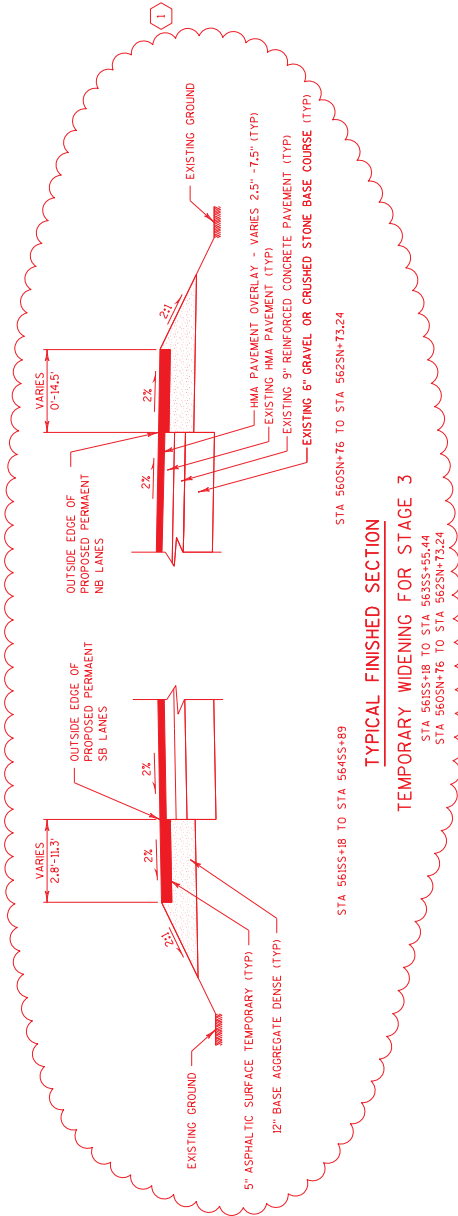
Addendum No. 01
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 Revised Sheet 8
 February 6, 2018

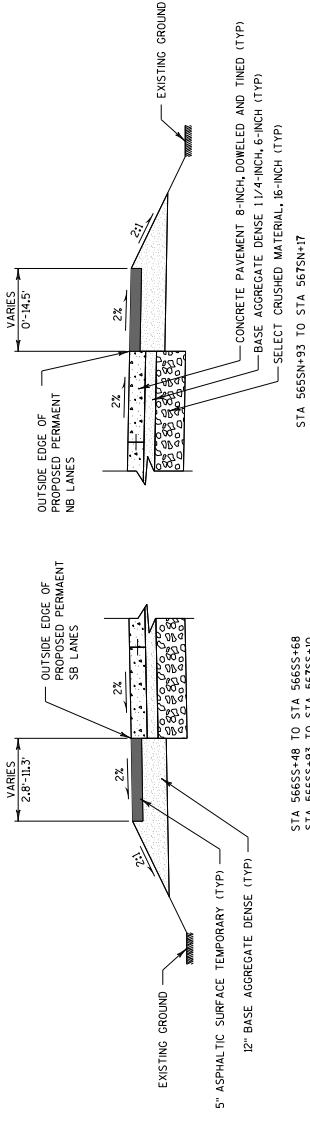
NOTES
 PCL = POINT REFERRED TO ON PROFILE
 X = POINT REFERRED TO ON CROSS-SECTION

TYPICAL FINISHED SECTION
 RAMP SC
 STA 5555C-65.55 TO STA 5555C-70.52

PROJECT NO: 2030-14-70	HWY: STH 100	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 8	E
FILE NAME : S:\DOT\DOT_SE\170358_STH 100 HAST Br -ogges\woods\cds\020401_17s.dgn			PLOT NAME : #FILE#		WISDOT/CADD SHEET 42
PLOT DATE : 2.5.2018			PLOT SCALE : 1:15		

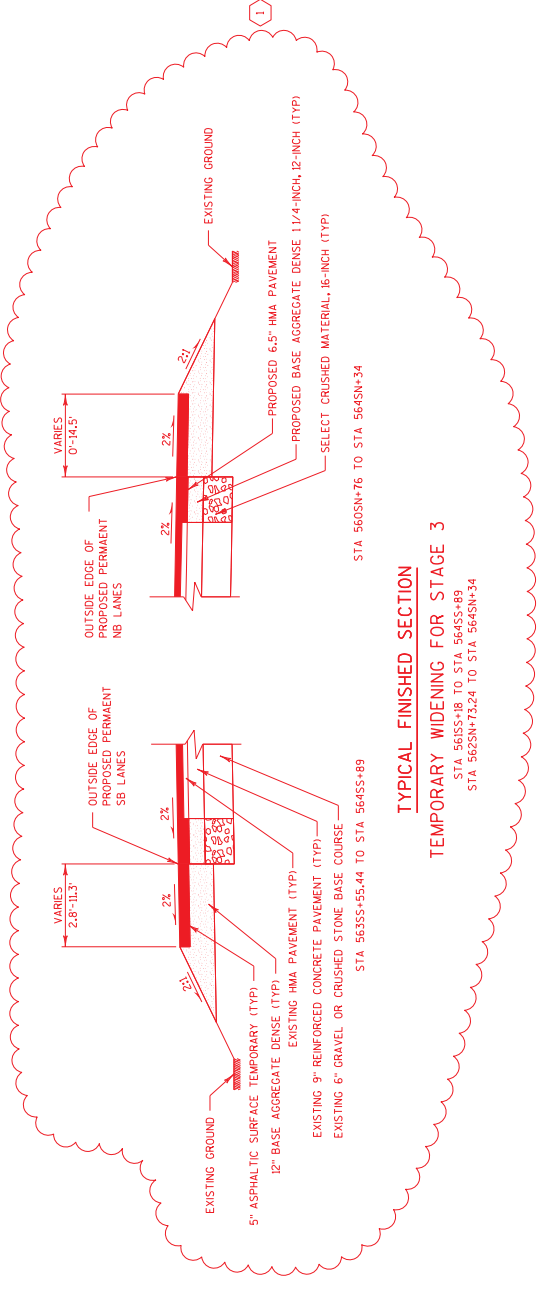
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TYPICAL FINISHED SECTION
TEMPORARY WIDENING FOR STAGE 3

STA 5665SN+93 TO STA 5675SN+17
 STA 5665S+48 TO STA 5675S+10

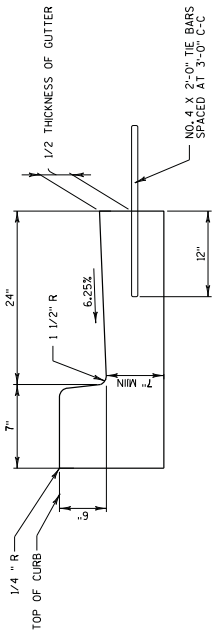
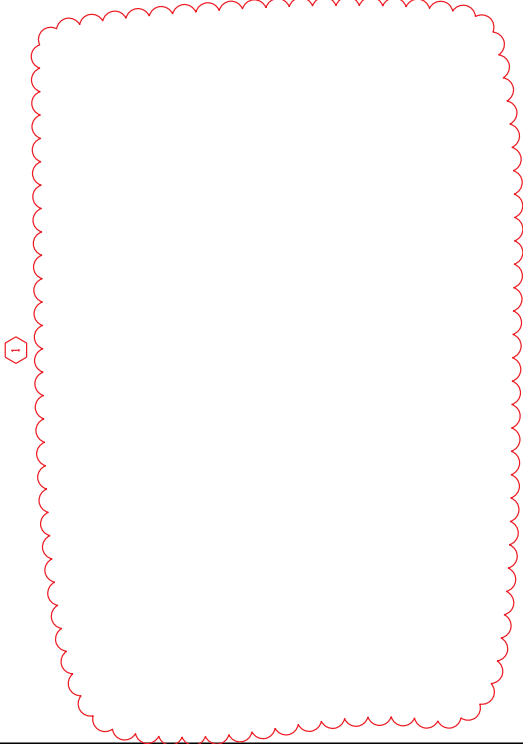


TYPICAL FINISHED SECTION
TEMPORARY WIDENING FOR STAGE 3

STA 5655S+48 TO STA 5665S+68
 STA 5625N+1524 TO STA 5645N+34

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 Added Sheet 10A
 February 6, 2018

NEW SHEET



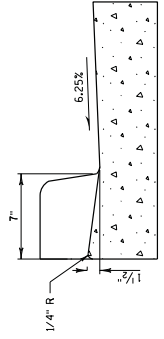
- NOTES**
1. TIE BARS ARE REQUIRED FOR CURB AND GUTTER ADJACENT TO NEW CONCRETE PAVEMENT.
 2. OMIT TIE BARS WHERE INTEGRAL CURB AND GUTTER IS REQUIRED.
 3. SEE STANDARD DETAIL DRAWING FOR DETAILS NOT SHOWN HERE.

CONCRETE CURB AND GUTTER 31-INCH

DRIVEWAY ENTRANCE CURB

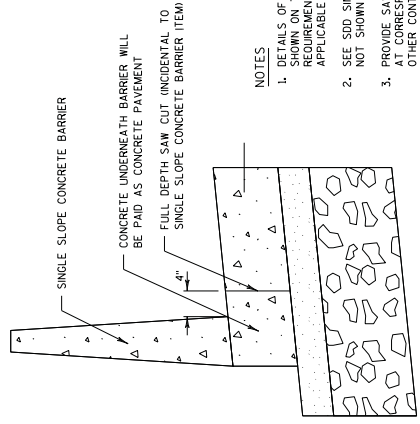
LOCATIONS AS NOTED ON THE PLAN DETAILS

NOTE
PAID FOR AS CURB & GUTTER, MEASURED ALONG FLOW LINE.



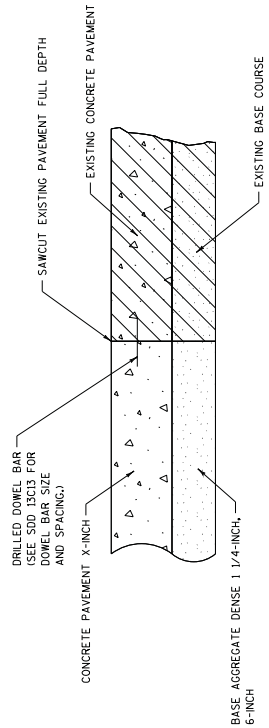
Addendum No. 01
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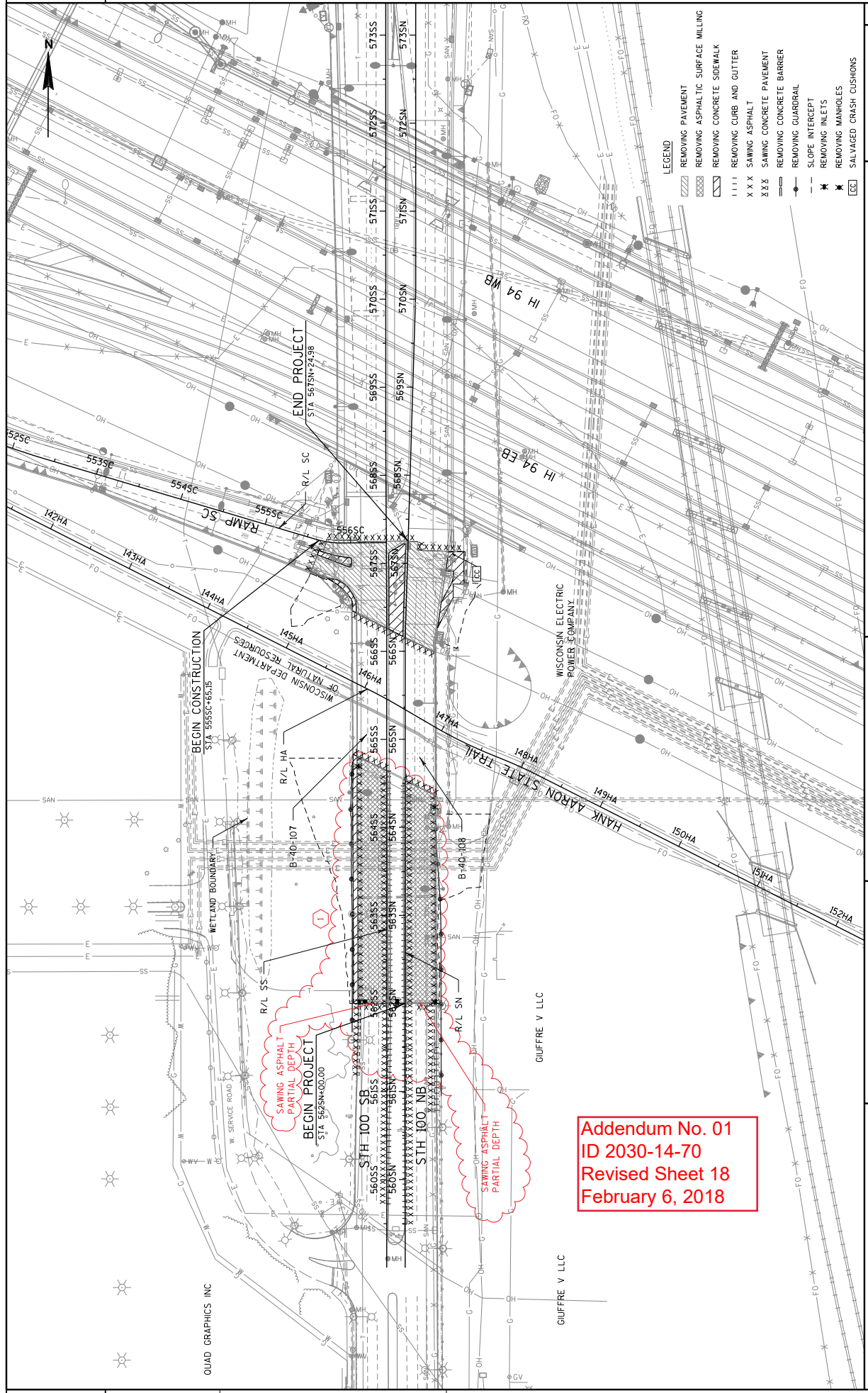
- NOTES**
1. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
 2. SEE SDD SINGLE SLOPE CONCRETE BARRIER FOR DETAILS NOT SHOWN HERE.
 3. PROVIDE SAWED CONTRACTION JOINT IN BARRIER FOOTING ONLY AT CORRESPONDING CONCRETE PAVEMENT CONTRACTION JOINTS. OTHER CONTRACTION JOINTS NOT REQUIRED.



SINGLE SLOPE CONCRETE BARRIER QUANTITIES

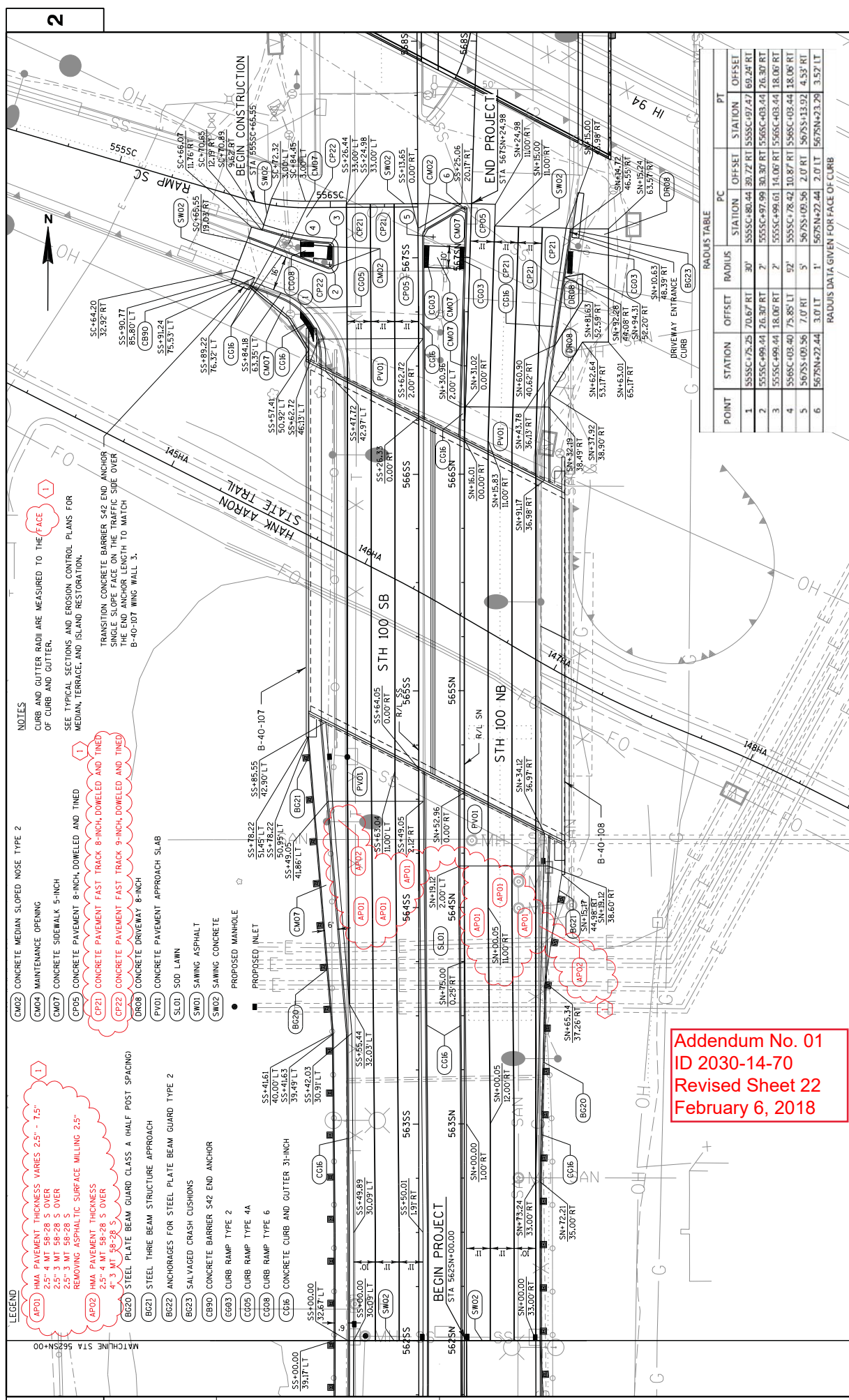
MATCH AT EXISTING CONCRETE PAVEMENT





- LEGEND**
- REMOVING PAVEMENT
 - REMOVING ASPHALTIC SURFACE MILLING
 - REMOVING CONCRETE SIDEWALK
 - REMOVING CURB AND GUTTER
 - SAWING ASPHALT
 - SAWING CONCRETE PAVEMENT
 - REMOVING CONCRETE BARRIER
 - REMOVING GUARDRAIL
 - SLOPE INTERCEPT
 - REMOVING INLETS
 - REMOVING MANHOLES
 - SALVAGED CRASH CUSHIONS

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RADIUS TABLE

POINT	STATION	OFFSET	RADIUS	PC	STATION	OFFSET	STATION	PT
1	5555C+75.25	70.67 RT	30'	5555C+80.44	30.72 RT	5555C+97.47	69.24 RT	
2	5555C+99.44	26.30 RT	7'	5555C+97.99	30.39 RT	5555C+03.44	26.30 RT	
3	5555C+99.44	18.00 RT	7'	5555C+99.01	14.00 RT	5555C+03.44	18.00 RT	
4	5555C+03.44	75.85 LT	92'	5555C+78.42	10.87 RT	5555C+03.44	18.00 RT	
5	5675S+03.56	7.07 RT	5'	5675S+03.56	2.07 RT	5675S+13.92	4.53 RT	
6	5675N+22.44	3.07 LT	1'	5675N+22.44	2.07 LT	5675N+23.28	3.57 LT	

RADIUS DATA GIVEN FOR FACE OF CURB

NOTES

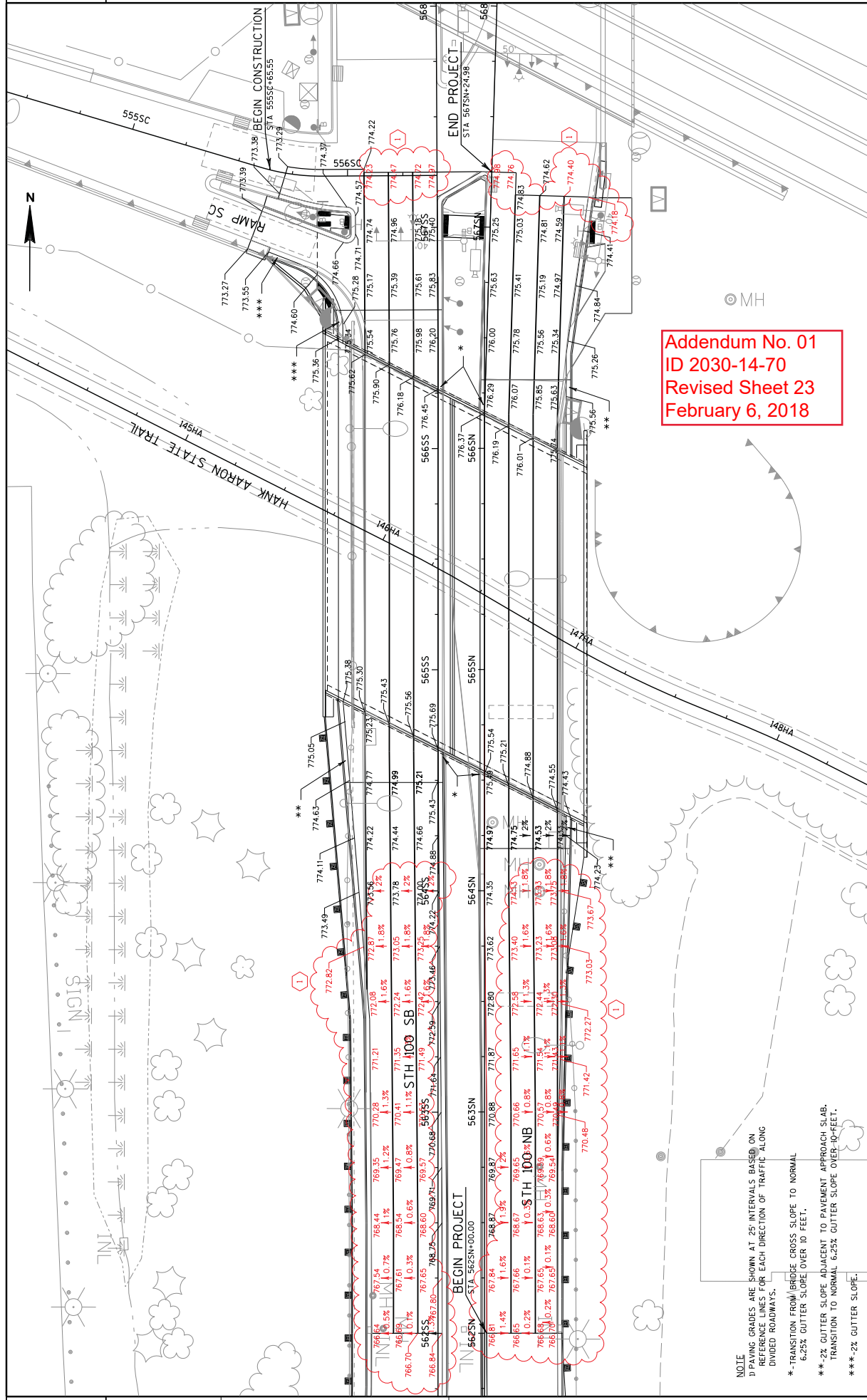
CURB AND GUTTER BLDG ARE MEASURED TO THE FACE OF CURB AND GUTTER.

SEE TYPICAL SECTIONS AND EROSION CONTROL PLANS FOR MEDIAN, TERRACE, AND ISLAND RESTORATION.

TRANSITION CONCRETE BARRIER S42 END ANCHOR SINGLE SLOPE FACE ON THE TRAFFIC SIDE OVER THE END ANCHOR LENGTH TO MATCH B-40-10T WING WALL 3.

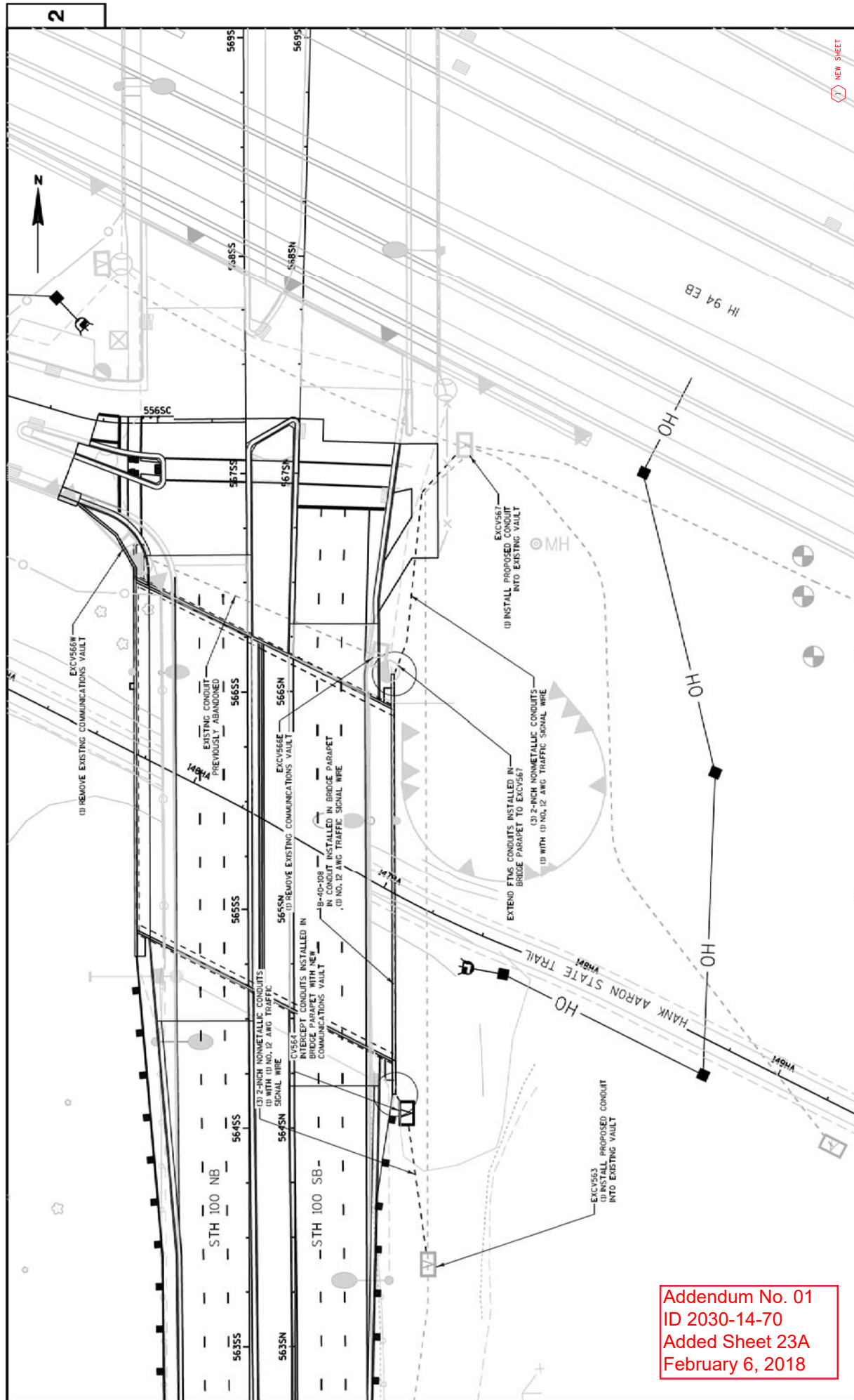
- LEGEND**
- (AP01) HMA PAVEMENT THICKNESS VARIES 2.5" - 7.5"
 - 2.5" 4 MT 58-28 S OVER
 - 2.5" 3 MT 58-28 S OVER
 - 2.5" 3 MT 58-28 S
 - REMOVING ASPHALTIC SURFACE MILLING 2.5"
 - (AP02) HMA PAVEMENT THICKNESS
 - 2.5" 4 MT 58-28 S OVER
 - 4" 3 MT 58-28 S
 - (BC20) STEEL PLATE BEAM GUARD CLASS A (HALF POST SPACING)
 - (BC21) STEEL THREE BEAM STRUCTURE APPROACH
 - (BC22) ANCHORAGES FOR STEEL PLATE BEAM GUARD TYPE 2
 - (BC23) SALVAGED CRASH CUSHIONS
 - (CB00) CONCRETE BARRIER S42 END ANCHOR
 - (CB03) CURB RAMP TYPE 2
 - (CB05) CURB RAMP TYPE 4A
 - (CB08) CURB RAMP TYPE 6
 - (CB16) CONCRETE CURB AND GUTTER 31-INCH
 - (CM07) CONCRETE MEDIAN SLOPED NOSE TYPE 2
 - (CM08) MAINTENANCE OPENING
 - (CM09) CONCRETE SIDEWALK 5-INCH
 - (CP05) CONCRETE PAVEMENT 8-INCH, DOMELED AND TINED
 - (CP21) CONCRETE PAVEMENT FAST TRACK 8-INCH, DOMELED AND TINED
 - (CP22) CONCRETE PAVEMENT FAST TRACK 9-INCH, DOMELED AND TINED
 - (DR08) CONCRETE DRIVEWAY 8-INCH
 - (PV01) CONCRETE PAVEMENT APPROACH SLAB
 - (SLO1) SOD LAWN
 - (SLO2) SAWING ASPHALT
 - (SLO3) SAWING CONCRETE
 - (SM02) PROPOSED MANHOLE
 - (SM07) PROPOSED INLET

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ID 2030-14-70
Revised Sheet 22
February 6, 2018

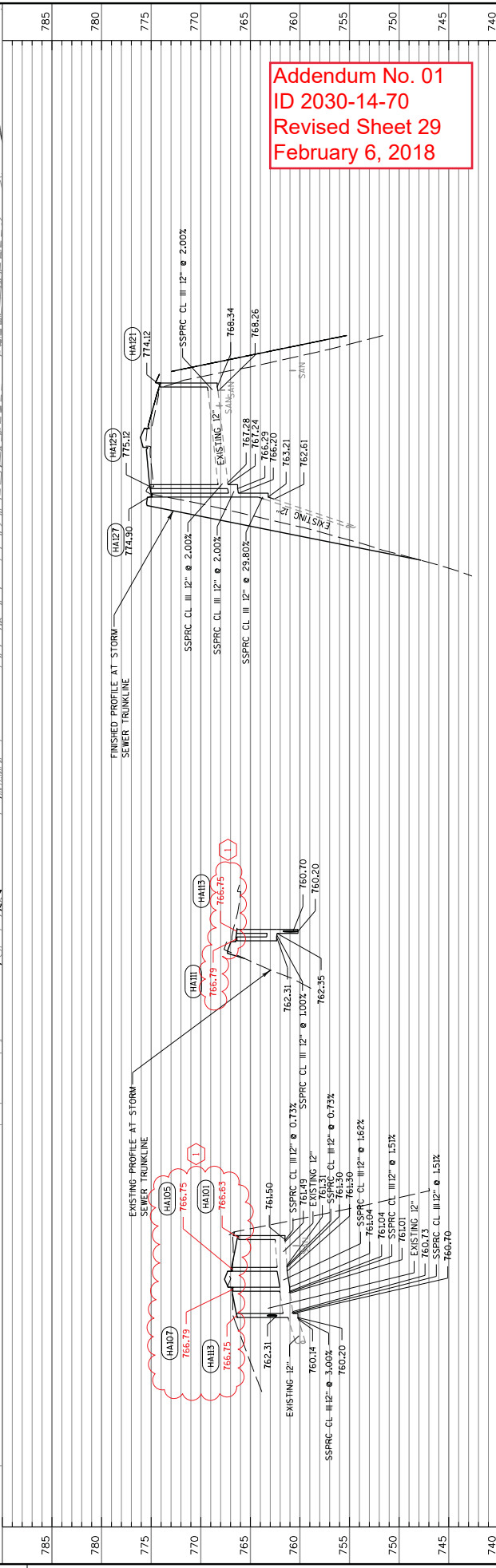
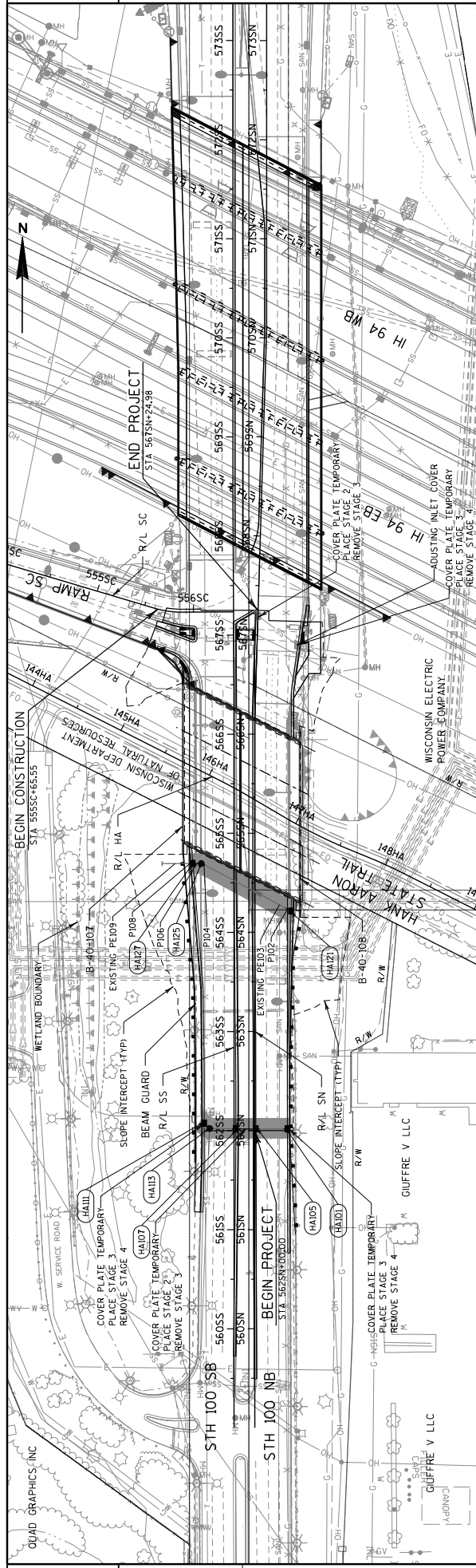


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 ID 2030-14-70
 Revised Sheet 23
 February 6, 2018

NOTE
 1) PAVING GRADES ARE SHOWN AT 25 INTERVALS BASED ON
 REFERENCE LINES FOR EACH DIRECTION OF TRAFFIC ALONG
 DIVIDED ROADWAYS.
 *-TRANSITION FROM BRIDGE CROSS SLOPE TO NORMAL
 6.25% GUTTER SLOPE OVER 10 FEET.
 **-2% SLOPE ADJACENT TO PAVEMENT APPROACH SLAB.
 TRANSITION TO NORMAL 6.25% GUTTER SLOPE OVER 10 FEET.
 ***-2% GUTTER SLOPE.



Addendum No. 01
 ID 2030-14-70
 Added Sheet 23A
 February 6, 2018



Addendum No. 01
ID 2030-14-70
Revised Sheet 29
February 6, 2018

GENERAL NOTES FOR TRAFFIC CONTROL:

- 1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 2. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- 3. ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.
- 4. "W" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- 5. DIMENSIONS TO CONCRETE BARRIER PRECAST ARE TO THE FACE OF BARRIER ADJACENT TO TRAFFIC. STATION CALL-OUTS TO CONCRETE BARRIER TEMPORARY PRECAST ARE TO THE FACE OF THE BARRIER.
- 6. WORK AREAS SHOWN MAY NOT ILLUSTRATE ALL REMOVALS. SEE REMOVAL SHEETS FOR ADDITIONAL INFORMATION.
- 7. ALL TRAFFIC CONTROL SIGNS LOCATED IN MEDIANS SHALL BE MOUNTED ON CONCRETE BARRIER UNLESS OTHERWISE NOTED. SEE TRAFFIC CONTROL DETAILS.
- 8. INSTALL PROPOSED TRAFFIC CONTROL SIGNS ON BOTH OUTSIDE SHOULDER AND MEDIAN SIDE OF ALL DIVIDED ROADWAYS.

TEMPORARY PAVEMENT MARKING LEGEND:

- ④⑤ TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW).
- ④⑥ TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE).
- ⑤① TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP).
- ⑤② TEMPORARY MARKING LINE STOP LINE REMOVABLE TAPE 18-INCH .

TRAFFIC CONTROL LEGEND

- ☐☐ CASH CUSHION TEMPORARY
- ☐☐ CASH CUSHION TEMPORARY PLACED IN PRIOR STAGE
- TRAFFIC CONTROL DRUM
- ☐ DRUM W/ TYPE C LIGHT
- ↓ TYPE III BARRICADE
- ↓ TYPE III BARRICADE WITH SIGN AND TWO TYPE "A" WARNING LIGHTS (FLASHING)
- ☐ SIGN ON TEMPORARY SUPPORT
- ☐ SIGN ON PERMANENT SUPPORT
- ☐ ARROW BOARD
- ➔ DIRECTION OF TRAFFIC
- ☐☐ CONCRETE BARRIER TEMPORARY PRECAST
- ▨ WORK ZONE
- ▨ TEMPORARY PAVEMENT
- Ⓡ MARKING REMOVAL

TRAFFIC CONTROL SIGN PORTABLE CHANGEABLE MESSAGE

PROJECT NO: 2030-14-70

HWY: STH 100

COUNTY: MILWAUKEE

TRAFFIC CONTROL - NOTES AND LEGENDS

SHEET 60

STAGING NOTES:

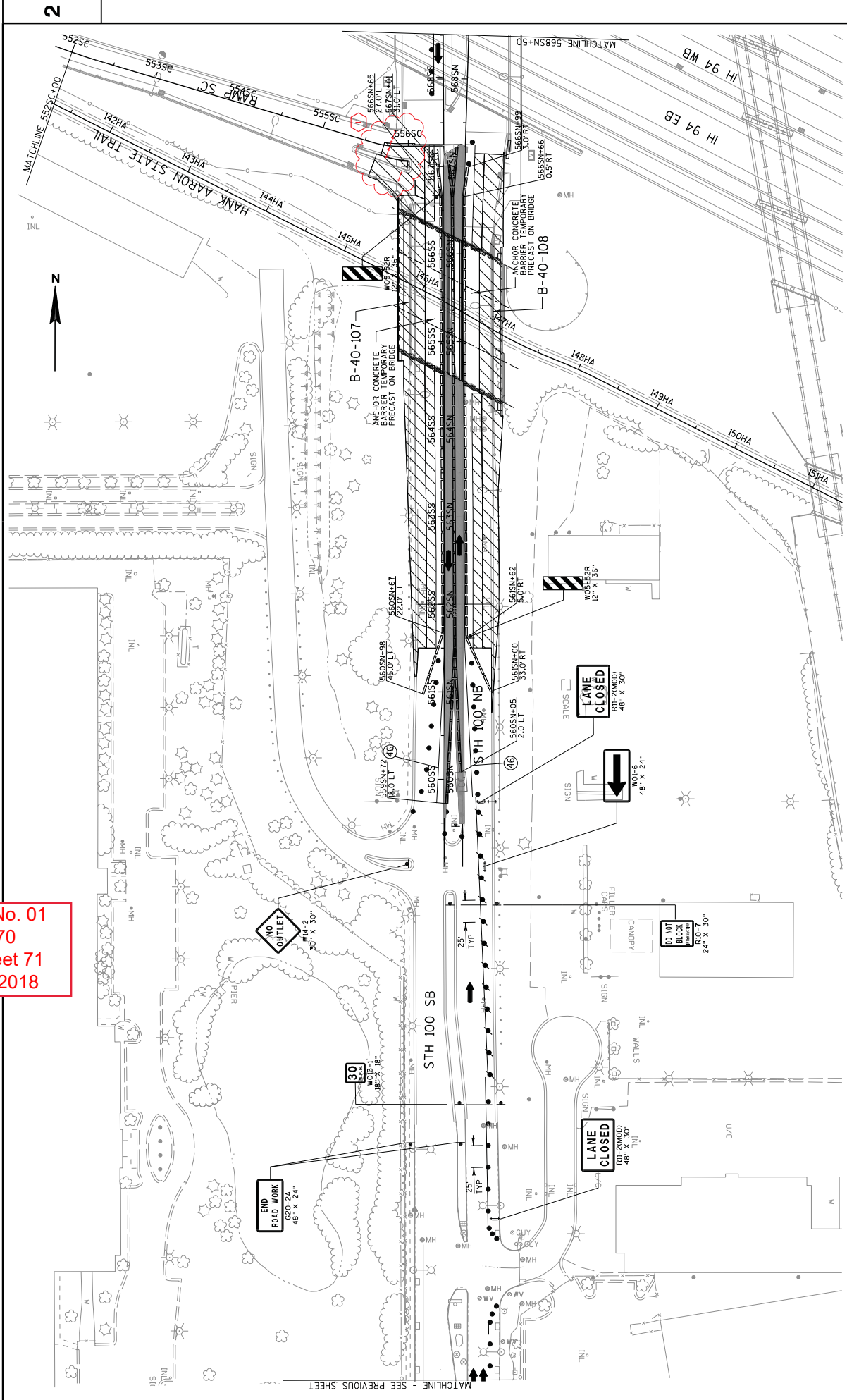
- 1. IN ADDITION TO THE SIGNS SHOWN IN THE TRAFFIC CONTROL STAGING SHEETS, "ROAD WORK AHEAD" SIGNS (W020-1) SHOULD BE INSTALLED AT THE FOLLOWING LOCATIONS:
 - THEO TRECKER WAY EASTBOUND AT WIS 100 (INCLUDE A "WIS 100" SHIELD AND "NORTH" PLAQUE ON THIS ASSEMBLY)
 - WIS 100 SOUTHBOUND SOUTH OF WISCONSIN AVENUE
 - BLUEMOUND ROAD EASTBOUND AT WIS 100 (INCLUDE A "WIS 100" SHIELD AND "SOUTH" PLAQUE ON THIS ASSEMBLY)
 - BLUEMOUND ROAD WESTBOUND AT WIS 100 (INCLUDE A "WIS 100" SHIELD AND "SOUTH" PLAQUE ON THIS ASSEMBLY)
 - WALKER STREET WESTBOUND AT WIS 100 (INCLUDE A "WIS 100" SHIELD AND "SOUTH" PLAQUE ON THIS ASSEMBLY)
- 2. IN ADDITION TO THE SIGNS SHOWN IN THE TRAFFIC CONTROL STAGING SHEETS, "DO NOT BLOCK INTERSECTION" SIGNS (R10-7) SHOULD BE INSTALLED ON BOTH THE RIGHT AND LEFT SIDE AT THE FOLLOWING LOCATIONS:
 - WIS 100 NORTHBOUND AT THE DOGGY DAY CARE DRIVEWAY (APPROXIMATELY 475' SOUTH OF COLDER'S DRIVEWAY)
- 3. IN ADDITION TO THE SIGNS SHOWN IN THE TRAFFIC CONTROL STAGING SHEETS, PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHOULD BE PLACED AT THE FOLLOWING LOCATIONS:
 - IH 94 EASTBOUND EXIT RAMP TO WIS 100 (PLACE PCMS AT CRASH INVESTIGATION SITE)
 - IH 94 WESTBOUND EXIT RAMP TO WIS 100 (PLACE PCMS JUST AFTER RAMP PASSES UNDER WIS 100 BRIDGES)
 - WIS 100 NORTHBOUND AT THEO TRECKER WAY
 - BLUEMOUND ROAD EASTBOUND AT WIS 100
 - BLUEMOUND ROAD WESTBOUND AT WIS 100
- 4. IN ADDITION TO THE SIGNS SHOWN IN THE TRAFFIC CONTROL STAGING SHEETS, "NO U-TURN" SIGNS (R3-4) SHOULD BE PLACED AT THE FOLLOWING LOCATIONS:
 - WIS 100 NORTHBOUND MEDIAN OPENING FOR LEFT-TURNS TO WHEATON FRANCISCAN HEALTHCARE (APPROXIMATELY 700' NORTH OF WIS 100 ENTRANCE RAMP TO IH 94)
- 5. THE FOLLOWING SIGNAGE ADJUSTMENTS NEED TO BE MADE TO FREEWAY SIGNAGE ON IH 94 EASTBOUND :
 - IH 94 EASTBOUND AT SPRINGFIELD ROAD (MILE MARKER 296.8): ADD A "NORTH" PLAQUE TO "WIS 100" ON MEDIAN BUTTERFLY SIGN
 - IH 94 EASTBOUND AT CALHOUN ROAD (MILE MARKER 299.8): ADD A "NORTH" PLAQUE TO "WIS 100" ON MEDIAN BUTTERFLY SIGN
 - IH 94 EASTBOUND EAST OF ELM GROVE ROAD (MILE MARKER 302.9): COVER "108TH ST TO GREENFIELD AVE" ON OVERHEAD FMS
 - IH 94 EASTBOUND EAST OF ELM GROVE ROAD (MILE MARKER 303.0): COVER "GREENFIELD AVE TRAFFIC USE THIS EXIT" FMS ON RIGHT SIDE
 - IH 94 EASTBOUND EAST OF ELM GROVE ROAD (MILE MARKER 303.1): ADD A "NORTH" PLAQUE TO "WIS 100" ON MEDIAN BUTTERFLY SIGN
 - IH 94 EASTBOUND EAST OF UNDERWOOD PARKWAY (MILE MARKER 303.5): ADD A "NORTH" PLAQUE TO "WIS 100" ON MEDIAN BUTTERFLY SIGN
 - IH 94 EASTBOUND AT 121ST STREET (MILE MARKER 303.7): COVER "108TH ST TO GREENFIELD AVE" ON OVERHEAD FMS
 - IH 94 EASTBOUND AT HANK AARON STATE TRAIL (MILE MARKER 304.0): COVER "108TH ST TO GREENFIELD AVE" ON CANTILEVER FMS
 - IH 94 EASTBOUND EXIT RAMP TO WIS 100 (PROCEEDING FROM BEGINNING OF RAMP TO END OF RAMP):
 - COVER "RIGHT LANE RIGHT TURN ONLY" ON FMS ON BOTH RIGHT AND LEFT SIDE
 - COVER "TO GREENFIELD AVENUE RIGHT" FMS ON RIGHT SIDE
 - COVER "SOUTH WIS 100 AHEAD RIGHT" FMS ON RIGHT SIDE
 - COVER "WEST ALLIS RIGHT" ON FMS ON RIGHT SIDE
 - COVER "SOUTH WIS 100 RIGHT" FMS ON RIGHT SIDE

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7. IN ADDITION TO THE SIGNS SHOWN IN THE TRAFFIC CONTROL STAGING SHEETS, "SIDEWALK CLOSED" SIGNS (R9-9) ON TYPE III BARRICADES SHOULD BE PLACED AT THE FOLLOWING LOCATIONS:

- ON SIDEWALK OF WEST SIDE OF WIS 100 JUST NORTH OF THEO TRECKER WAY (APPROXIMATELY ADJACENT TO QUAD GRAPHICS PERMANENT SIGN)
 - ON SIDEWALK OF WEST SIDE OF WIS 100 JUST NORTH OF IH94 ENTRANCE RAMPS, (APPROXIMATELY ADJACENT TO SOUTHERN LIMIT OF STARBUCKS PARKING LOT)
8. IN ADDITION TO THE SIGNS SHOWN IN THE TRAFFIC CONTROL STAGING SHEETS, "SIDEWALK CLOSED AHEAD" CROSS HERE" SIGNS (R9-11) ON TYPE III BARRICADES SHOULD BE PLACED AT THE FOLLOWING LOCATIONS:
- ON SIDEWALK OF WEST SIDE OF WIS 100 AT SOUTHWEST CORNER OF BLUEMOUND ROAD AND WIS 100 INTERSECTION.
9. UPON COMPLETION OF CONSTRUCTION ACTIVITIES REQUIRING THE LANE CLOSURE ON WIS 100 NORTHBOUND, WIS 100 SOUTHBOUND, AND THE IH 94 EASTBOUND EXIT RAMP, ALL SIGNAGE DESCRIBED IN NOTES 1-8 SHOULD BE REMOVED.

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2

2

PROJECT NO: 2030-14-70

HWY: STH 100

COUNTY: MILWAUKEE

TRAFFIC CONTROL - STAGE 2A

SHEET

71

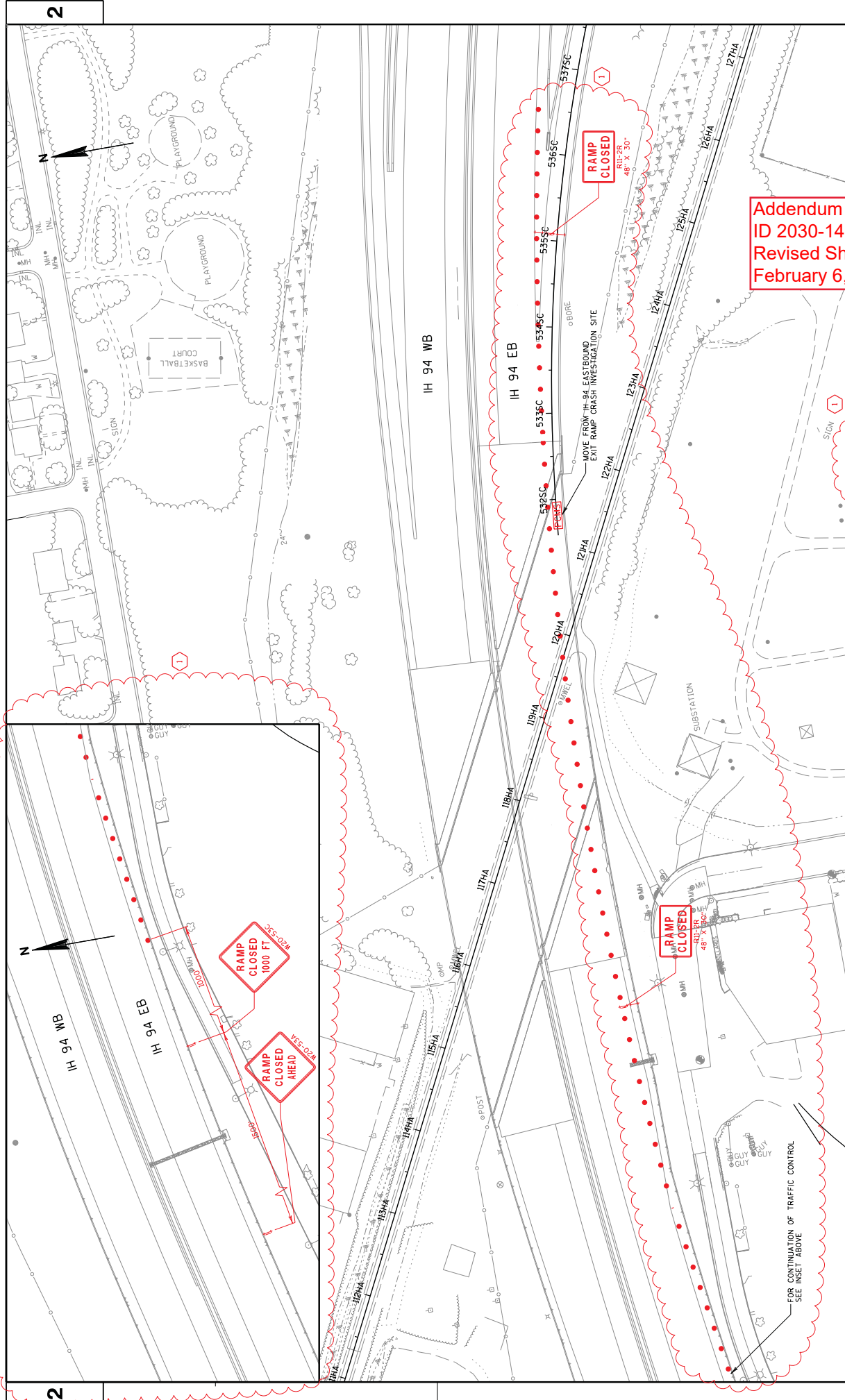
FILE NAME : S:\DOT\DOT_SE\170358_STH 100_HAST_Br_cogges\Roads\ccs\025026_7c.dwg

PLOT DATE : 2.5.2018

PLOT BY : mwolok

PLOT SCALE : 1:100

WISDOT/CADD SHEET 42



2

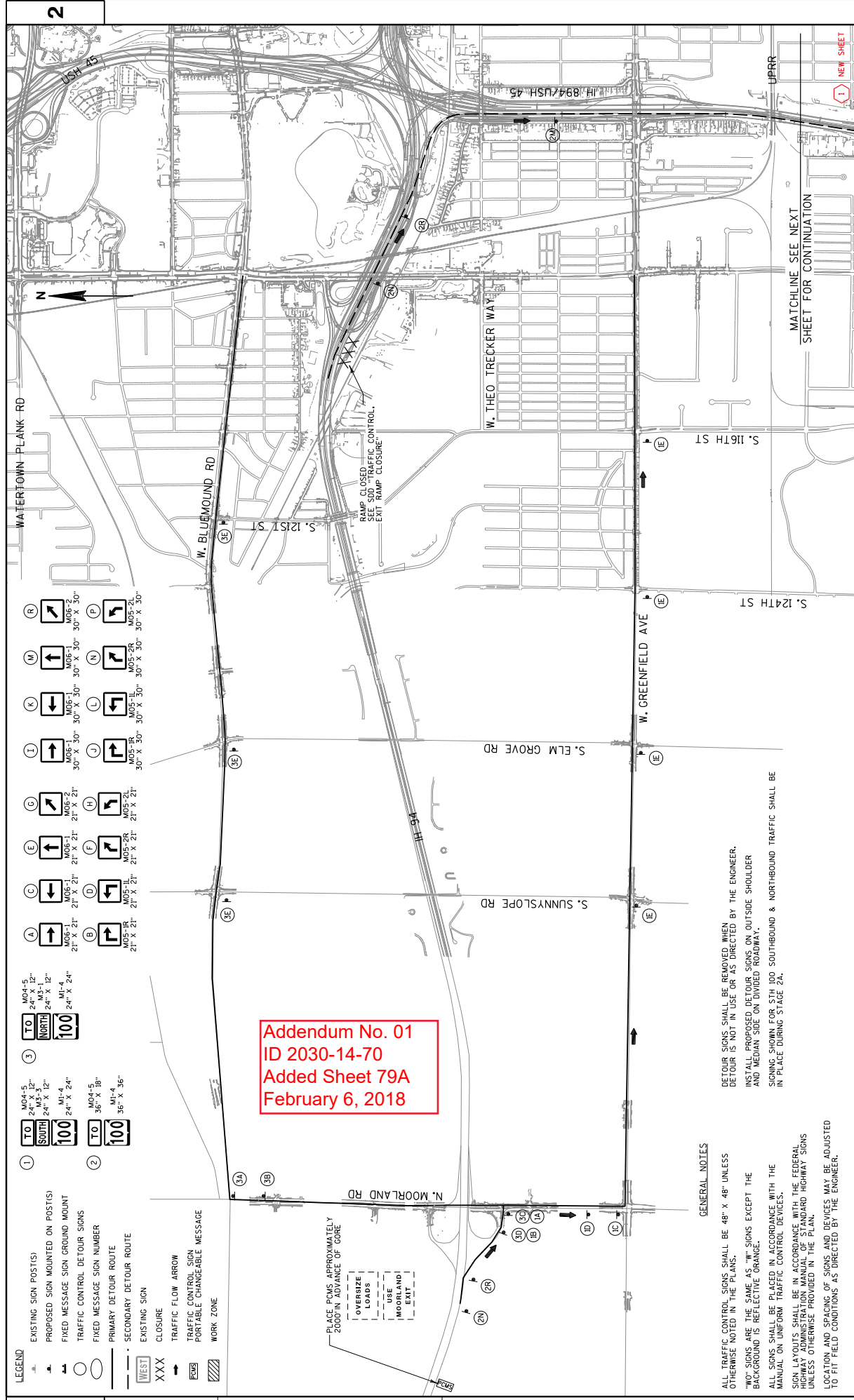
2

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PROJECT NO: 2030-14-70	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET 74	E
FILE NAME : S:\DOT\DOT_SE\170358_STH 100 HAST Br - cogen\woods\cds\025029_1rc.dgn	PLOT DATE : 2.5.2018	PLOT BY : mwolok	WISDOT/CADD SHEET 42	

HWY: STH 100

FOR CONTINUATION OF TRAFFIC CONTROL
 SEE INSET ABOVE



- LEGEND**
- ▲ EXISTING SIGN POST(S)
 - ▲ PROPOSED SIGN MOUNTED ON POST(S)
 - ▲ FIXED MESSAGE SIGN GROUND MOUNT
 - TRAFFIC CONTROL DETOUR SIGNS
 - FIXED MESSAGE SIGN NUMBER
 - PRIMARY DETOUR ROUTE
 - SECONDARY DETOUR ROUTE
 - EXISTING SIGN
 - CLOSURE
 - XXX TRAFFIC FLOW ARROW
 - ▲ TRAFFIC CONTROL SIGN
 - ▲ PORTABLE CHANGEABLE MESSAGE
 - ▲ WORK ZONE

- 1**
- TO SOUTH 24" X 12" M4-5
 - TO SOUTH 24" X 12" M3-1
 - TO SOUTH 24" X 24" M1-4
 - TO SOUTH 24" X 24" M4-5
 - TO SOUTH 36" X 18" M1-4
 - TO SOUTH 36" X 36" M1-4
- 2**
- TO WEST 24" X 12" M4-5
 - TO WEST 24" X 12" M3-1
 - TO WEST 24" X 24" M1-4
 - TO WEST 24" X 24" M4-5
 - TO WEST 36" X 18" M1-4
 - TO WEST 36" X 36" M1-4

- 3**
- A M06-1 21" X 21"
 - B M05-1R 21" X 21"
 - C M06-1 21" X 21"
 - D M05-1L 21" X 21"
 - E M06-1 21" X 21"
 - F M05-2R 21" X 21"
 - G M06-2 21" X 21"
 - H M05-2L 21" X 21"
 - I M06-1 30" X 30"
 - J M05-1R 30" X 30"
 - K M06-1 30" X 30"
 - L M05-1L 30" X 30"
 - M M06-1 30" X 30"
 - N M05-2R 30" X 30"
 - O M06-2 30" X 30"
 - P M05-2L 30" X 30"

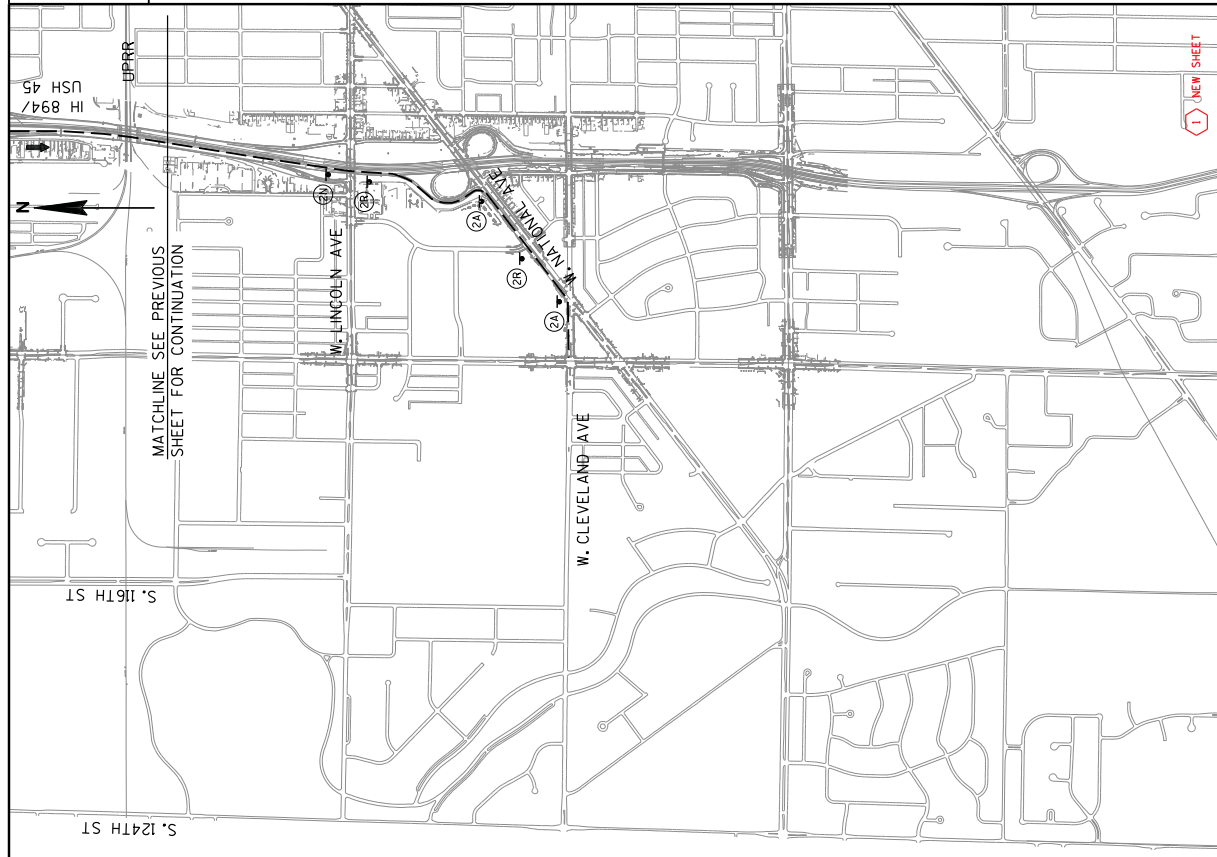
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PLACE POMS APPROXIMATELY 2000 FT IN ADVANCE OF CORE

- OVERSIZE LOADS
- USE MOORLAND EXIT

GENERAL NOTES

- ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLAN.
- DETOUR SIGNS SHALL BE REMOVED WHEN DETOUR IS NOT IN USE OR AS DIRECTED BY THE ENGINEER.
- INSTALL PROPOSED DETOUR SIGNS ON OUTSIDE SHOULDER AND MEDIAN SIDE ON DIVIDED ROADWAY.
- ALL SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
- ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION'S STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.
- LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.



MATCHLINE SEE PREVIOUS SHEET FOR CONTINUATION

S. ELM GROVE RD

S. SUNNYSLOPE RD

N. MOORLAND RD

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February 6, 2018

- LEGEND**
- EXISTING SIGN POST(S)
 - PROPOSED SIGN MOUNTED ON POST(S)
 - FIXED MESSAGE SIGN GROUND MOUNT
 - TRAFFIC CONTROL DETOUR SIGNS
 - FIXED MESSAGE SIGN NUMBER
 - PRIMARY DETOUR ROUTE
 - SECONDARY DETOUR ROUTE
 - EXISTING SIGN
 - CLOSURE
 - TRAFFIC FLOW ARROW
 - TRAFFIC CONTROL SIGN
 - PORTABLE CHANGEABLE MESSAGE
 - WORK ZONE

- 1 TO SOUTH 24" X 12" M04-5
TO NORTH 24" X 12" M3-1
100 24" X 12" M1-4
100 24" X 24" M1-4
- 2 TO SOUTH 36" X 18" M04-5
TO NORTH 36" X 18" M1-4
100 36" X 36" M1-4
- A TO SOUTH 21" X 21" M08-1
TO NORTH 21" X 21" M08-1
100 21" X 21" M08-1
- B TO SOUTH 21" X 21" M08-1
TO NORTH 21" X 21" M08-1
100 21" X 21" M08-1
- C TO SOUTH 21" X 21" M08-1
TO NORTH 21" X 21" M08-1
100 21" X 21" M08-1
- D TO SOUTH 21" X 21" M08-1
TO NORTH 21" X 21" M08-1
100 21" X 21" M08-1
- E TO SOUTH 21" X 21" M08-1
TO NORTH 21" X 21" M08-1
100 21" X 21" M08-1
- F TO SOUTH 21" X 21" M08-1
TO NORTH 21" X 21" M08-1
100 21" X 21" M08-1
- G TO SOUTH 21" X 21" M08-1
TO NORTH 21" X 21" M08-1
100 21" X 21" M08-1
- H TO SOUTH 21" X 21" M08-1
TO NORTH 21" X 21" M08-1
100 21" X 21" M08-1
- I TO SOUTH 30" X 30" M08-1
TO NORTH 30" X 30" M08-1
100 30" X 30" M08-1
- J TO SOUTH 30" X 30" M08-1
TO NORTH 30" X 30" M08-1
100 30" X 30" M08-1
- K TO SOUTH 30" X 30" M08-1
TO NORTH 30" X 30" M08-1
100 30" X 30" M08-1
- L TO SOUTH 30" X 30" M08-1
TO NORTH 30" X 30" M08-1
100 30" X 30" M08-1
- M TO SOUTH 30" X 30" M08-1
TO NORTH 30" X 30" M08-1
100 30" X 30" M08-1
- N TO SOUTH 30" X 30" M08-1
TO NORTH 30" X 30" M08-1
100 30" X 30" M08-1
- O TO SOUTH 30" X 30" M08-1
TO NORTH 30" X 30" M08-1
100 30" X 30" M08-1
- P TO SOUTH 30" X 30" M08-1
TO NORTH 30" X 30" M08-1
100 30" X 30" M08-1
- Q TO SOUTH 30" X 30" M08-1
TO NORTH 30" X 30" M08-1
100 30" X 30" M08-1
- R TO SOUTH 30" X 30" M08-1
TO NORTH 30" X 30" M08-1
100 30" X 30" M08-1

GENERAL NOTES

ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLAN.

"M" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.

LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

DETOUR SIGNS SHALL BE REMOVED WHEN DETOUR IS NOT IN USE OR AS DIRECTED BY THE ENGINEER.

INSTALL PROPOSED DETOUR SIGNS ON OUTSIDE SHOULDER AND MEDIAN SIDE ON DIVIDED ROADWAY.

SIGNING SHOWN FOR STH 100 SOUTHBOUND & NORTHBOUND TRAFFIC SHALL BE IN PLACE DURING STAGE 2A.

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204.0100 REMOVING PAVEMENT			
CATEGORY	STAGE	ROADWAY	STATION TO STATION OFFSET
1000	2	RAMPS RAMP SC	555SC+64 - 556SC+07 RT 74 555SC+64 - 556SC+07 RT 140
LOCAL ROADS			
STH 100			
565SN+99 - 567SN+15 RT 267 566SS+32 - 567SS+25 LT 214			
SUBTOTAL 695			
1000	3	LOCAL ROADS	566SN+10 - 567SN+25 RT 170 566SS+25 - 567SN+25 LT 161
SUBTOTAL 331			
1000	4	LOCAL ROADS	565SN+99 - 567SN+15 RT 88
SUBTOTAL 88			
TOTAL 1,114			

204.0150 REMOVING CURB & GUTTER			
CATEGORY	STAGE	ROADWAY	FROM STATION TO STATION OFFSET
1000	2	LOCAL ROADS	560SN+76 35 RT 361 561SS+18 33 LT 363 566SN+17 0 LT 106 566SS+25 0 RT 109
SUBTOTAL 939			
1000	3	LOCAL ROADS	559SS+72 2 RT 491 559SN+49 0 LT 505
SUBTOTAL 996			
TOTAL 1,935			

204.0155 REMOVING CONCRETE SIDEWALK			
CATEGORY	STAGE	ROADWAY	STATION TO STATION OFFSET
1000	1	LOCAL ROADS	566SS+25 - 567SS+22 RT 240
SUBTOTAL 240			
1000	2	RAMPS	555SC+66 - 556SC+01 RT 31 555SC+78 - 556SC+05 RT 26
SUBTOTAL 57			
1000	3	LOCAL ROADS	562SS+00 - 564SS+83 LT 153
SUBTOTAL 153			
TOTAL 393			

204.0120 REMOVING ASPHALTIC SURFACE MILLING			
CATEGORY	STAGE	ROADWAY	STATION TO STATION OFFSET
1000	2	LOCAL ROADS	562SN+00 - 564SN+70 RT 575 562SS+00 - 564SS+70 LT 656
SUBTOTAL 1,231			
1000	3	LOCAL ROADS	562SN+00 - 564SN+70 RT 306 562SS+00 - 564SS+70 LT 326
SUBTOTAL 632			
TOTAL 1,863			

204.0157 REMOVING CONCRETE BARRIER			
CATEGORY	STAGE	ROADWAY	FROM STATION TO STATION OFFSET
1000	3	RAMPS	555SC+64 36 RT 20 555SC+78 42 RT 20
SUBTOTAL 40			
TOTAL 20			

204.0165 REMOVING GUARDRAIL			
CATEGORY	STAGE	ROADWAY	FROM STATION TO STATION OFFSET
1000	2	RAMPS	561SS+67 39 LT 308 560SN+95 41 RT 318
SUBTOTAL 626			
TOTAL 626			

3

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SAWING

680.0150 680.0250
SAWING SAWING
ASPHALT CONCRETE

CATEGORY STAGE ROADWAY STATION TO STATION OFFSET LF LF COMMENTS

LOCAL ROADS

1000	1	STH.100									
			558SN+49	-	564SN+54	RT	--	541			
			559SS+72	-	564SS+64	LT	--	495			
			566SS+25	-	567SS+25	LT	--	118			
			566SN+16	-	567SN+26	RT	--	105			
							--	1,259			
			SUBTOTALS								

RAMPS

1000	2	RAMP.SC								
			555SC+64	-	555SC+66	RT	-	21		
			555SC+71	-	556SC+07	RT	--	36		

LOCAL ROADS

1000	3	STH.100									
			560SN+76	-	562SN+00	RT	--	130			
			561SS+18	-	562SS+00	LT	--	93			
			562SS+00	-	564SS+81	LT	--	545			
			562SN+00	-	564SN+45	RT	--	490			
			562SS+00	-		LT	23	--			
			562SN+00	-		RT	23	--			
			564SN+37	-	564SN+48	RT	23	3			
			564SN+69	-	564SN+81	LT	25	6			
			565SN+89	-	566SN+10	LT	--	26			
			566SS+32	-	566SS+46	LT	--	32			
			566SN+05	-	567SN+15	RT	--	214			
			566SS+38	-	567SS+25	LT	--	180			
			567SN+15	-		RT	--	53			
			567SS+25	-		LT	--	22			
							94	1,851			
			SUBTOTALS								

LOCAL ROADS

1000	3	STH.100									
			562SS+00	-		LT	12	--			
			562SN+00	-		RT	12	--			
			564SN+48	-	564SN+54	RT	12	3			
			564SS+64	-	564SS+70	LT	12	3			
			566SN+10	-	566SN+17	RT	--	15			
			566SS+15	-	566SS+32	L7/RT	--	36			
			567SN+15	-	567SN+25	RT	--	21			
			567SS+25	-		L7/RT	--	31			
							48	109			
			SUBTOTALS								
							142	3,219			
			TOTALS								

EARTH WORK SUMMARY

Division	From/To Station	Location	205.0100 Excavation Common (CY) (1)	Salvaged/Unusable Pavement Material (CY) (4)	Available Material (4)	Unexpanded Fill (5)	Expanded Fill (6)	Mass Ordinate +/- (7)	Waste (8)	Borrow	Comment:
1	560SN+76 TO 567SN+24 562SN+00 TO 567SN+24	HWY 100 TEMPORARY PAVEMENT HWY 100	591 1,361	0 0	591 1,361	0 1,571	0 1,728	591 -367	591 -367	Item 208.0100	
Division 1	Subtotal Stage 1		1,951	0	1,951	1,571	1,728	223	223	0	
Total			1,951	0	1,951	1,571	1,728	223	223	0	

NOTES:

- 1) Salvaged/Unusable Pavement Material is included in Cut.
- 2) Available Material = Cut - Salvaged/Unusable Pavement Material
- 4) Expanded Fill, Factor = 1.20
- 5) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
- 6) A soil expansion factor of 1.1 was used to generate estimated earthwork quantities. Due to potential soil variability, actual quantities may vary. No quantity adjustments will be made for differing soil expansion factors encountered in the field.

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CONCRETE PAVEMENT APPROACH SLAB			
CATEGORY	STAGE	ROADWAY	STATION
1000	2	STH 100	564SN+19 564SS+49 566SN+31 566SS+63
SUBTOTAL			317
1000	3	STH 100	564SN+19 564SS+49 566SN+31 566SS+63
SUBTOTAL			123
TOTALS			440

CONCRETE PAVEMENT			
CATEGORY	STAGE	ROADWAY	STATION
1000	2	RAMP SC	555SC+71 - 556SC+03
SUBTOTAL			192
1000	3	LOCAL ROADS	566SN+31 566SS+63
SUBTOTAL			416
1000	3	LOCAL ROADS	566SN+31 566SS+63
SUBTOTAL			191
TOTAL			191

BASE AGGREGATE ITEMS			
CATEGORY	STAGE	ROADWAY	STATION
1000	1	RAMPS	562SN+00 566SN+31
SUBTOTAL			885
1000	2	RAMP SC	555SC+71 - 556SC+03
SUBTOTAL			27
1000	3	LOCAL ROADS	563SS+55 562SN+73 566SN+31 566SS+63
SUBTOTAL			678
1000	3	LOCAL ROADS	566SN+31 566SS+63
SUBTOTAL			464
1000	4	RAMP SC	555SC+66 - 556SC+03
SUBTOTAL			84
1000	4	LOCAL ROADS	562SS+00 566SN+31
SUBTOTAL			389
TOTAL			2,416

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DRILLED BAR ITEMS

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	TE BARS	DOVEL BARS	EACH
1000	2	RAMP SC	555SC+71	-	555SC+72	LT/RT	3	12	17
			555SC+72	-	555SC+07	LT	14	--	54
LOCAL ROADS									
			557SC+25		567SN+15	LT	--	21	21
			557SC+25		567SN+15	RT	--	21	21
SUBTOTALS									
							17	54	71
LOCAL ROADS									
1000	3	RAMP SC	559SN+49		567SN+24	LT/RT	3	--	9
			559SN+49		567SN+24	LT/RT	3	--	9
			567SN+24			RT/LT	17	9	26
SUBTOTALS									
							23	9	32
RAMPS									
1000	4	RAMP SC	555SC+64	-	555SC+66	RT	3	17	20
STH100									
			560SN+76			RT	3	--	3
			561SS+18			LT	3	--	3
			567SN+15			RT	3	10	13
SUBTOTALS									
							12	27	39
TOTALS									
							52	90	142

ASPHALTIC ITEMS

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	TACK COAT	HMA PAVEMENT	HMA PAVEMENT	ASPHALTIC SURFACE TEMPORARY
1000	1	STH100	559SN+49	-	564SN+63	70	3 MT 58-28 S	4 MT 58-28 S	280
			566SN+16	-	567SN+25	18	--	--	71
SUBTOTAL									
						88	--	--	351
LOCAL ROADS									
1000	2	STH100	560SN+76	-	564SN+84	21	7	4	78
			561SS+18	-	564SS+87	26	8	5	92
			562SN+00	-	564SN+19	73	94	73	--
			562SS+00	-	564SS+49	83	59	83	--
SUBTOTAL									
						203	168	165	170
LOCAL ROADS									
1000	3	STH100	562SN+00	-	564SN+34	37	63	37	--
			562SS+00	-	564SN+87	43	43	43	--
SUBTOTAL									
						80	106	80	--
LOCAL ROADS									
1000	4	STH100	566SN+61	-	566SN+94	--	--	--	--
SUBTOTAL									
						--	--	--	--
TOTALS									
						371	274	245	521

465.0610 416.0620
DRILLED TE BARS
DOVEL BARS
EACH

465.0805 460.6223 460.6224
TACK COAT
HMA PAVEMENT
HMA PAVEMENT
ASPHALTIC SURFACE TEMPORARY
GAL TON TON

624.0100 624.0100
WATER
PROJECT-BASE AGGREGATE
PROJECT-EXCAVATION
MGAL

1 5 8 13
1 1 1

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BEAM GUARD ITEMS

CATEGORY	STAGE	ROADWAY	FROM	TO	STATION	OFFSET	ANCHORAGES FOR STEEL	PLATE BEAM GUARD	STEEL THRE APPROACH	STEEL PLATE BEAM GUARD	SALVAGED CRASH CUSHIONS	COMMENT
1000	4	STH100	560SN+95	41' RT	564SN+15	45' RT	1	1	21	258	--	
			562SS+00	39' LT	564SN+79	52' LT	1	1	21	258	--	
			567SN+11	48' RT	--	--	--	--	--	--	1	Removed in Stage 1
SUBTOTALS												
							2	2	42	516	1	

MOBILIZATION

CATEGORY	STAGE	LOCATION	EACH
1000	ALL	2030-14-70	1.00
TOTAL			
			1.00

DUST CONTROL SURFACE TREATMENT

CATEGORY	STAGE	LOCATION	SY
1000	ALL	PROJECT	3.794
TOTALS			
			3.794

CATEGORY	STAGE	LOCATION	MGAL
1000	ALL	PROJECT-BASE AGGREGATE	5
		PROJECT-EXCAVATION	8
TOTALS			
			13

PROJECT NO: 2030-14-70

HWY: STH 100

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET: 94

E

CONCRETE COLLARS FOR PIPE

STAGE	ROADWAY	STATION	OFFSET	NOTES
2	STH 100 NB	562SN+02	29' RT	520.8000 CONCRETE COLLARS FOR PIPE EACH
		564SN+24	31' RT	
3	STH 100 SB	561SS+98	25' LT	1
		562SS+02	21' LT	
		564SS+68	29' LT	
		564SS+70	46' LT	
SUBTOTAL				6
TOTAL				8

APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE

STAGE	ROADWAY	LOCATION	NOTES
2	STH 100	B-40-107 NORTH ABUTMENT	APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH
		B-40-107 SOUTH ABUTMENT	
		B-40-108 NORTH ABUTMENT	
		B-40-108 SOUTH ABUTMENT	
SUBTOTAL		4	
TOTAL		4	

ADJUSTING STRUCTURES

STAGE	LOCATION	STATION	OFFSET	EXISTING RIM ELEVATION	PROPOSED RIM ELEVATION	ADJUSTING INLET COVERS	SPV.0060.5200 ADJUSTING INLET SANITARY MANHOLE EACH
2	STH 100 NB	562SN+75	25' RT	769.46	---	---	1
		SUBTOTALS				769.59	1
4	STH 100 NB	566SN+91	42' RT	774.33	---	---	1
		SUBTOTALS				774.52	1
TOTALS						1	1

COVER PLATE TEMPORARY

STAGE	ROADWAY	STATION	OFFSET	NOTES
2	STH 100 NB	562SN+02	9' LT	611.8120 S COVER PLATE TEMPORARY EACH
		567SN+20	2' LT	
SUBTOTAL				2
3	STH 100 NB	562SN+02	33' RT	COVER PLATE TEMPORARY UNTIL STAGE 3
		564SN+22	37' RT	
		566SN+91	42' RT	
		562SS+08	30' LT	
SUBTOTAL				5
TOTAL				7

SALVAGED INLET COVERS

STAGE	ROADWAY	STATION	OFFSET	NOTES
3	STH 100 NB	567SN+20	2' LT	611.9710 SALVAGED INLET COVERS EACH
		SUBTOTAL		
4	STH 100 NB	566SN+91	42' RT	1
		SUBTOTAL		
TOTAL				2

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ID 2030-14-70
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STORM SEWER STRUCTURES

STORM SEWER PIPES

ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH ¹ (FT)	BACKFILL SLURRY CY	STRUCTURE COMMENTS	PPE ID	STAGE	FROM STR	TO STR	NLET ELEV	DISCH ELEV	SLOPE ^A %	PIPE LENGTH ^B (FT)	PLAN LENGTH ^C (FT)	PIPE CLASS	PIPE SIZE (INCH)	BACKFILL SLURRY CY	PIPE COMMENTS	SFV_0035.8001 BACKFILL SLURRY CY
STH 100 NB	HA101	2	562SN+01.65	35.0	RT	766.63	NLETS 4-FT DIAMETER	H	5.13	8	INSTALL COVER STAGE 4	P102	2	HA101	PE103	761.50	761.49	0.73	2	4	II	12	1	---	9
---	---	---	---	---	---	---	---	---	---	---	---	PE103	---	P102	P104	761.49	761.31	---	---	---	---	12	---	EXIST RPE INTERPOL ELEV	---
---	---	---	---	---	---	---	---	---	---	---	---	P104	3	PE103	HA105	761.31	761.30	0.73	2	4	III	12	1	---	1
STH 100 NB	HA105	3	562SN+01.53	1.0	LT	766.75	NLETS 4-FT DIAMETER	H	5.45	8	---	P106	3	HA105	HA107	761.30	761.04	1.62	16	20	III	12	2	---	10
STH 100 SB	HA107	3	562SS+01.76	3.9	RT	766.79	NLETS 4-FT DIAMETER	H	5.75	8	---	P108	3	HA107	PE109	761.04	761.01	1.51	2	4	III	12	1	---	9
---	---	---	---	---	---	---	---	---	---	---	---	PE109	---	P108	P110	761.01	760.73	---	---	---	---	12	---	EXIST RPE INTERPOL ELEV	---
---	---	---	---	---	---	---	---	---	---	---	---	P110	2	PE109	HA113	760.73	760.70	1.51	2	4	III	12	1	---	1
STH 100 SB	HA111	2	562SS+07.54	32.1	LT	766.79	NLETS 4-FT DIAMETER	H	4.44	8	INSTALL COVER STAGE 4	P112	2	HA111	HA113	762.35	762.31	1.00	4	8	III	12	1	---	9
STH 100 SB	HA113	2	562SS+02.21	24.6	LT	766.74	MANHOLES 4-FT DIAMETER	J-SPECIAL	6.54	16	---	P114	2	HA113	PE115	760.20	760.14	3.00	2	4	III	12	1	---	17
---	---	---	---	---	---	---	---	---	---	1	---	PE115	---	P114	---	760.14	---	---	---	---	---	12	---	EXIST RPE INTERPOL ELEV	---
STH 100 NB	HA121	2	564SN+21.53	38.7	RT	774.12	NLETS 4-FT DIAMETER	H	5.78	8	INSTALL COVER STAGE 4	P122	2	HA121	PE123	768.34	768.26	2.00	4	6	III	12	1	---	9
---	---	---	---	---	---	---	---	---	---	---	---	PE123	---	P122	P124	768.26	767.28	---	---	---	---	12	---	EXIST RPE INTERPOL ELEV	---
---	---	---	---	---	---	---	---	---	---	---	---	P124	2	PE123	HA125	767.28	767.24	2.00	2	4	III	12	1	---	1
STH 100 SB	HA125	2	564SS+69.50	33.0	LT	775.12	MANHOLES 4-FT DIAMETER	J-SPECIAL	8.83	11	---	P126	2	HA125	HA127	766.29	766.20	2.00	5	9	III	12	1	---	12
STH 100 SB	HA127	2	564SS+63.33	43.6	LT	774.90	NLETS 4-FT DIAMETER	H	11.69	19	INSTALL COVER STAGE 4	P128	2	HA127	PE129	763.21	762.61	29.80	2	4	III	12	1	---	20
---	---	---	---	---	---	---	---	---	---	---	---	PE129	---	P128	---	762.61	---	---	---	---	---	12	---	EXIST RPE INTERPOL ELEV	---
TOTAL																							98		

^A SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE #PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. ^C PLAN LENGTH SHOWN FOR PAY QUANTITY.
^B DEPTH = RM OR FLOW ELEV. - LOWEST PIPE INVERT ELEVATION MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE NOT INTENDED FOR PAY QUANTITY.

MANAGEMENT OF SOLID WASTE

CATEGORY	STAGE	LOCATION	STATION	TO	STATION	TON
1000			SPV.0185.0700			
	ALL	2030-14-70	564SN+90 - 566SN+45			248
			563SN+90 - 564SN+90			351
			564SN+90 - 566SN+00			496
			TOTAL			1,095

ICE HPC HOT WEATHER CONCRETING

CATEGORY	LOCATION	LB
1000	BRIDGEDECKS	4,470
	TOTALS	4,470

SURVEY PROJECT

CATEGORY	STAGE	ROADWAY	LS
1000	ALL	PROJECT	1
		TOTAL	1

PAVEMENT CLEANUP

CATEGORY	STAGE	LOCATION	HRS
1000	ALL	PROJECT	100
		TOTAL	100

VIBRATION MONITORING

CATEGORY	STAGE	LOCATION	MON
1000	1	WALL R-40-630	5
		TOTAL	5

TRACKING PADS

CATEGORY	LOCATION	EACH
1000	UNDISTRIBUTED	1
	TOTAL	1

EROSION CONTROL ITEMS

CATEGORY	STAGE	LOCATION	STATION	TO	STATION	OFFSET	EACH	BALES	SILT FENCE	SILT FENCE MAINTENANCE	MOBILIZATION CONTROL	MOBILIZATION CONTROL	EMERGENCY CONTROL	EROSION CONTROL	EROSION CLASS	MAT TYPE	TEMPORARY CHECKS	ROCK BAGS	
1000		RAMPS																	
		RAMPS	555SC+66	-	566SC+49	RT	--	140	140		--	--	--	--	217				
		LOCAL ROADS																	
		STH 100	561SN+09	-	564SN+15	RT	--	401	401		--	--	--	--	535				
			565SN+96	-	567SN+15	RT	--	172	172		--	--	--	--	184				
			562SS+00	-	565SS+63	LT	138	553	553		--	--	--	--	784		30		
			SUBTOTAL				138	1,266	1,266		--	--	--	--	1,720		30		
			UNDISTRIBUTED				55	506	506		3	3	3	3	688		10		100
			TOTALS				193	1,772	1,772		3	3	3	3	2,408		40		100

RESTORATION ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	MULCHING SY	FERTILIZER TYPE	SEEDING MKTURE NO.20	SEEDING TEMPORARY	SOD WATER	SOD LAWN	WATER AREAS	WATER FOR	TOPSOIL SPECIAL
1000													
	RAMPS	555SC+66	-	566SC+49	109	.1	6	3	--	--	2.4		217
	LOCAL ROADS												
	STH 100	559SN+49	-	564SN+60	267	.9	15	8	19.6	874	6.0		1,409
		565SN+96	-	567SN+15	92	.1	5	3	--	--	2.1		184
		562SS+00	-	565SS+63	392	.5	22	11	--	--	8.8		784
		SUBTOTALS			860	1.6	48	25	19.6	874	19		2,594
		UNDISTRIBUTED			86	.2	5	3	2.0	87	2		--
		TOTALS			946	1.8	53	28	21.6	961	21		2,594

* USE WITH SEEDING TEMPORARY

PROJECT NO: 2030-14-70

HWY: STH 100

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET: 99

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TRAFFIC CONTROL

643.5000	TRAFFIC CONTROL	EACH	
1000	PROJECT	1	
TOTALS		1	

TRAFFIC CONTROL CLOSURE ITEMS

SPV.0060.0400	TRAFFIC CONTROL LOCAL ROAD LANE CLOSURES EACH	20	
1	TRAFFIC CONTROL CLOSE-OPEN FREEWAY EXIT RAMP EACH	1	
TOTALS		21	

FINISHING ROADWAY

213.0100	FINISHING ROADWAY EACH	1.00	
1000	ALL 2030-14-70	1.00	
TOTAL		1.00	

FENCE SAFETY

616.0700.S	FENCE SAFETY	LF	
1000	ALL UNDISTRIBUTED	500.00	
TOTAL		500.00	

MMSD SANITARY SEWER TELEVISION

SPV.0090.5100	MMSD SANITARY SEWER TELEVISION	LF	
1000	LOCAL ROADS HWY 100	591	
4	564SN+31 - 566SN+57	255	
TOTALS		846	

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Revised Sheet 101
February 6, 2018**

TRAFFIC CONTROL PAVEMENT MARKING

646.9000	TRAFFIC CONTROL PAVEMENT MARKING	EACH	
1000	PROJECT	1	
TOTALS		1	

TRAFFIC CONTROL PAVEMENT MARKING

649.0805	TRAFFIC CONTROL PAVEMENT MARKING	LF	
1000	ALL UNDISTRIBUTED	616.07	
TOTAL		616.07	

TRAFFIC CONTROL PAVEMENT MARKING

646.9300	TRAFFIC CONTROL PAVEMENT MARKING	EACH	
1000	PROJECT	1	
TOTALS		1	

TRAFFIC CONTROL PAVEMENT MARKING

649.0150	TRAFFIC CONTROL PAVEMENT MARKING	LF	
1000	ALL UNDISTRIBUTED	616.07	
TOTAL		616.07	

TRAFFIC CONTROL PAVEMENT MARKING

646.9000	TRAFFIC CONTROL PAVEMENT MARKING	EACH	
1000	PROJECT	1	
TOTALS		1	

TRAFFIC CONTROL PAVEMENT MARKING

649.0805	TRAFFIC CONTROL PAVEMENT MARKING	LF	
1000	ALL UNDISTRIBUTED	616.07	
TOTAL		616.07	

MISCELLANEOUS QUANTITIES

101	MISCELLANEOUS QUANTITIES	101	
TOTALS		101	

TRAFFIC CONTROL ITEMS

CATEGORY	STAGE	LOCATION	643.0300		643.0420		643.0705		643.0800		643.0910		643.0920		643.1050	
			STAGE DURATION DAYS	TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES	TRAFFIC CONTROL WARNING LIGHTS TYPE A	TRAFFIC CONTROL WARNING LIGHTS TYPE C	TRAFFIC CONTROL ARROW BOARDS	TRAFFIC CONTROL COVERING SIGNS TYPE I	TRAFFIC CONTROL COVERING SIGNS TYPE II	TRAFFIC CONTROL SIGNS	TRAFFIC CONTROL CYCLES	TRAFFIC CONTROL SIGNS	TRAFFIC CONTROL CYCLES	TRAFFIC CONTROL SIGNS	TRAFFIC CONTROL CYCLES
1000	1	STAGE 1 IH 94	17	--	--	--	--	--	--	--	1	4	4	--	--	--
		RAMP SA		--	--	--	--	--	5	85	--	--	--	--	1	17
		RAMP SC	31	524	4	68	8	136	--	6	102	--	1	9	1	17
		HWY 100	110	1,867	8	136	16	272	22	34	646	--	1	4	1	17
		BLUEMOUND ROAD	--	--	--	--	--	--	--	6	102	--	--	--	2	34
		THEO TRECKER WAY	--	--	--	--	--	--	3	51	--	--	--	--	--	--
		WALKER STREET	--	--	--	--	--	--	3	51	--	--	--	--	--	--
		SUBTOTALS		2,390	204	408	374	34	986	4	13	85				
1000	2	STAGE 2 IH 94	58	--	--	--	--	--	--	--	--	--	--	--	--	--
		RAMP SA	--	--	--	--	--	--	5	290	--	--	--	--	1	58
		RAMP SC	31	1,786	4	232	8	464	--	6	348	--	--	1	58	
		HWY 100	115	6,693	10	580	20	1,160	35	2,018	2	116	42	2,436	1	58
		BLUEMOUND ROAD	--	--	--	--	--	--	6	348	--	--	--	--	2	116
		THEO TRECKER WAY	--	--	--	--	--	--	3	174	--	--	--	--	--	--
		WALKER STREET	--	--	--	--	--	--	3	174	--	--	--	--	--	--
		SUBTOTALS		8,480	812	1,624	2,018	116	3,770	--	200					
1000	2A	STAGE 2A IH 94	3	60	180	2	6	2	6	3	9	--	--	1	3	
		RAMP SA	26	79	3	9	6	18	--	4	12	--	1	6	1	3
		RAMP SC	--	--	7	21	2	6	--	1	3	--	1	2	1	3
		RAMP SW	--	--	--	--	--	--	--	1	1	--	1	1	--	--
		RAMP NW	--	--	--	--	--	--	--	1	2	--	2	2	--	--
		RAMP NW/SW	--	--	--	--	--	--	--	1	1	--	1	1	--	--
		HWY 100	189	566	20	60	40	120	82	245	4	12	60	180	1	3
		BLUEMOUND ROAD	22	66	1	3	2	6	--	8	24	1	1	1	2	6
		THEO TRECKER WAY	--	--	--	--	--	--	--	3	9	--	--	--	--	--
		WALKER STREET	--	--	--	--	--	--	3	9	--	--	--	--	--	--
		SUBTOTALS		891	99	156	245	15	246	5	8	18				

1

**FOR INFORMATION ONLY

TRAFFIC CONTROL ITEMS (Continued)

1000	CATEGORY	STAGE	LOCATION	DURATION DAYS	643.0300		643.0420		643.0705		643.0715		643.0800		643.0910		643.0920		643.1050						
					EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	EACH*	DAY	
		3	STAGE 3	41																					
			H 94																						
			RAMP SA																						
			RAMP SC	31	1,263	4	164			4	164									1	41				
			HWY 100	89	3,649	7	287			14	574			2	82	40	1,640				1	41			
			BLUEMOUND ROAD																			2	82		
			THEO TRECKER WAY																						
			WALKER STREET																						
			SUBTOTALS		4,912		451			738			82				2,501						205		
1000		4	STAGE 4	27																					
			H 94																						
			RAMP SA																						
			RAMP SC	60	1,631	8	216			8	216			1	27	9	243					2	27		
			HWY 100	65	1,744	3	81			6	162					17	459						1	27	
			BLUEMOUND ROAD																					2	54
			THEO TRECKER WAY																						
			WALKER STREET																						
			SUBTOTALS		3,375		297			540		216	27				1,107					2		135	
			UNDISTRIBUTED		2,005		186			347		285	27				861					2		--	
			TOTALS		22,052		2,049			3,813		3,139	301				9,471					25		733	

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**FOR INFORMATION ONLY

PROJECT NO: 2030-14-70

HWY: STH 100

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET: 103

TRAFFIC CONTROL ITEMS (DETOUR)

643.0900*		TRAFFIC CONTROL		SIGNS	
CATEGORY	STAGE LOCATION	STAGE DURATION DAYS	DAYS	EACH*	DAY
1000	2	STAGE2A EB EXIT RAMP TO STH 100	3	25	75
TOTALS					75

*ADDITIONAL QUANTITIES FOUND ELSEWHERE
 **FOR INFORMATION ONLY

Addendum No. 01
 ID 2030-14-70
 Revised Sheet 104
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PAVEMENT MARKING ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	4-INCH		12.5 FT LINE		37.5 FT SKP		2 FT LINE		6 FT SKP		MARKING	QUANTITIES
					WHITE	YELLOW	WHITE	LF	WHITE	LF	WHITE	LF	WHITE	LF		
1000	RAMPS															
	<u>RAMP SA</u>															
		550SA+43	-	548SA+50	--	--	52	--	--	--	--	--	--	--	646.5020	MARKING ARROW EPOXY
	<u>RAMP SC</u>															
		556SC+64	-	556SC+03	28	--	--	23	3	45	45	3	45	646.6120	MARKING STOP LINE EPOXY	
	LOCAL ROADS															
	<u>STH 100</u>															
		559SN+50	-	567SN+26	607	780	510	780	--	--	--	--	--	646.7420	MARKING CROSSWALK EPOXY	
		588SS+90	-	567SS+25	592	764	587	574	--	41	41	--	--	646.5020	MARKING TRANSVERSE LINE	
TOTAL					2,771	1,097	1,379	86	1	1	259					

FTMS LINEAR FOOT ITEMS

CATEGORY 1000

ROADWAY	ITEM ID	LINEAR DISTANCE	LF	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	655.0510 ELECTRICAL WIRE TRAFFIC SIGNALS 12AWG
STH 100	EXCV563 - CV564	60	180	60	
	B-40-108	205	-	205	
	B-40-108 - EXCV567	110	330	110	
TOTALS			510	375	

* MORE SHOWN ELSEWHERE

FTMS EACH ITEMS

CATEGORY 1000

ROADWAY	ITEM ID	INFO EXISTING	ITEM EACH	652.0700 S INSTALL CONDUIT 673.0105 COMMUNICATION VAULT TYPE 1
STH 100	EXCV563	1	1	-
	CV564	-	-	1
	EXCV567	1	1	-
TOTALS		2	2	1

FTMS REMOVALS

CATEGORY 1000

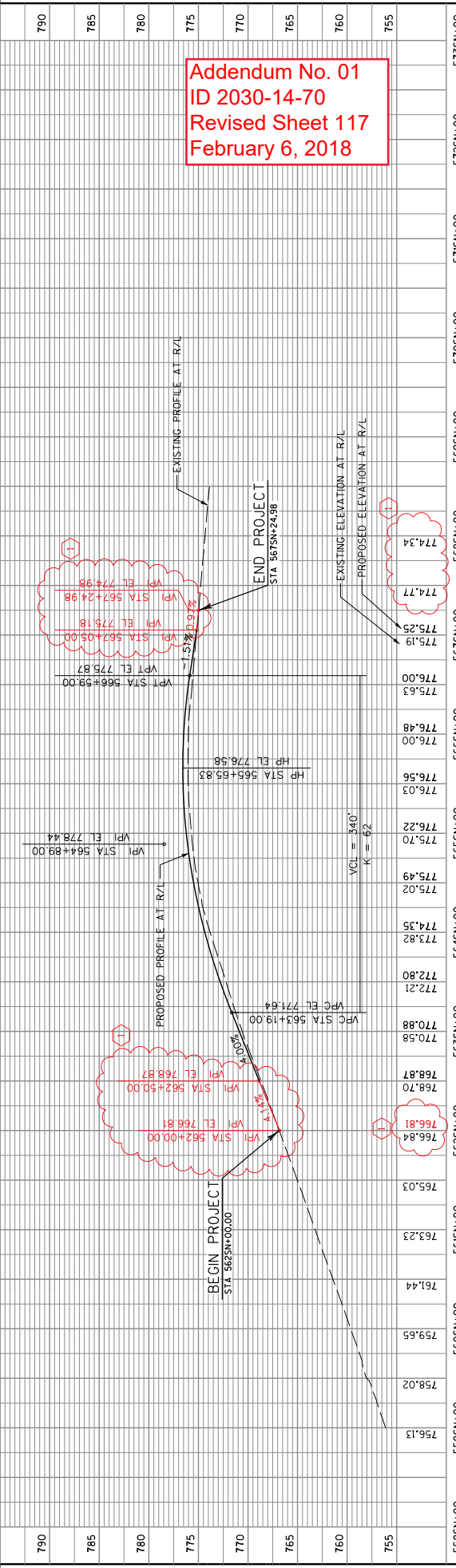
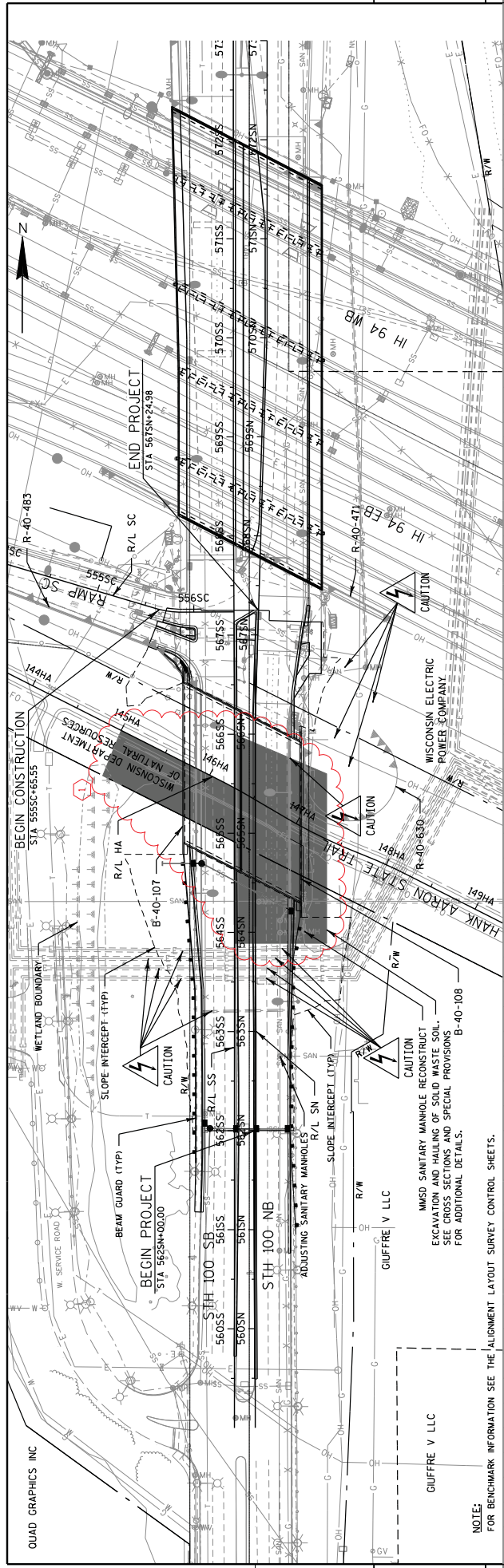
ROADWAY	LOCATION	204.9060 S.2000 REMOVING COMMUNICATION VAULT	ITEM EACH
STH 100	EXCV566E		1
	EXCV566W		1
TOTALS			2

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Added Sheet 107A
February 6, 2018



NEW SHEET

PLOT SCALE:

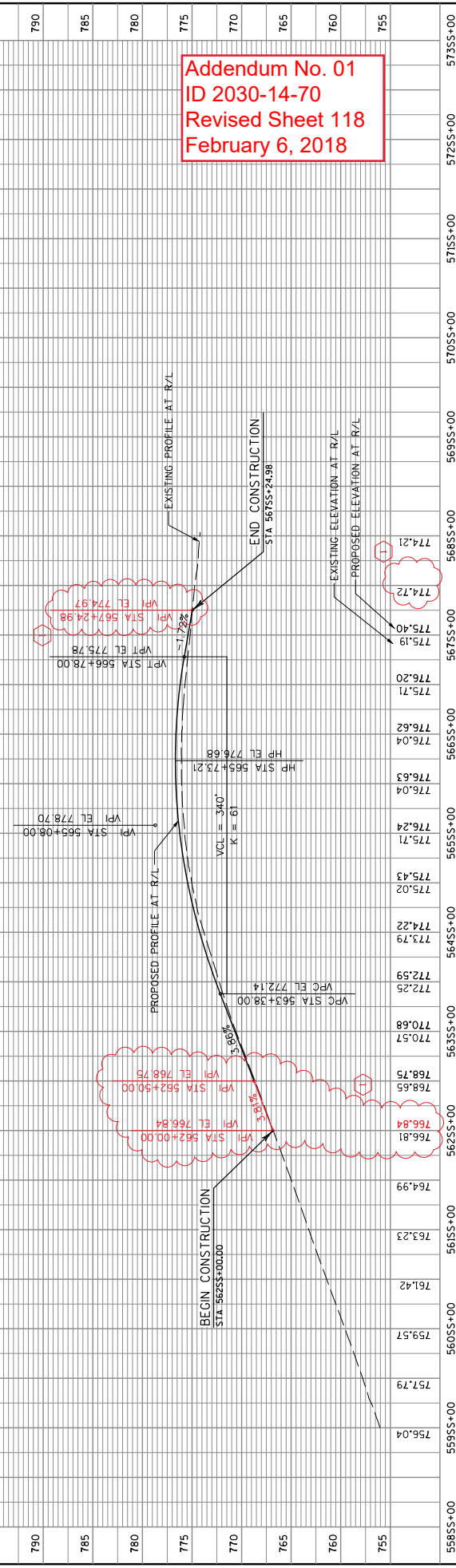
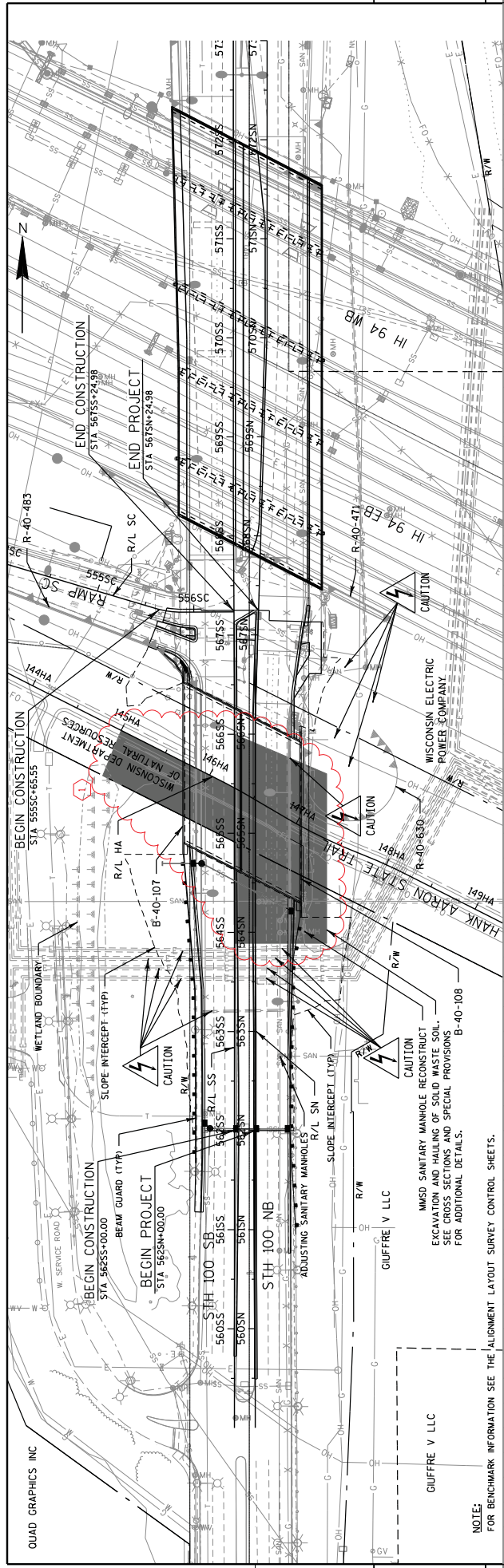


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5585SN+00	5595SN+00	5605SN+00	5615SN+00	5625SN+00	5635SN+00	5645SN+00	5655SN+00	5665SN+00	5675SN+00	5685SN+00	5695SN+00	5705SN+00	5715SN+00	5725SN+00	5735SN+00
756.13	758.02	759.65	761.44	763.23	765.03	766.81	768.70	768.87	770.88	772.21	772.80	773.82	774.35	775.02	775.70
775.19	775.25	774.77	774.34												

PROJECT NO: 2030-14-70
 COUNTY: MILWAUKEE
 PLAN & PROFILE: STH 100 NB
 SHEET 117
 E

FILE NAME : S:\DOT\DOT_SE\170358_STH 100_HAST Br -rogas\roads\cds\050101.DP.dwg
 PLOT DATE : 2.5.2018
 PLOT BY : wwo/ok
 PLOT NAME : #FILES
 PLOT SCALE : 1:100
 WSDOT/CADD SHEET 40



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790	785	780	775	770	765	760	755	5585+00	5595+00	5605+00	5615+00	5625+00	5635+00	5645+00	5655+00	5665+00	5675+00	5685+00	5695+00	5705+00	5715+00	5725+00	5735+00	

PROJECT NO: 2030-14-70
 COUNTY: MILWAUKEE
 HWY: STH 100
 PLAN & PROFILE: STH 100 SB
 SHEET 118
 E

FILE NAME : S:\DOT\DOT_SE\170358_STH 100_HAST_Br+loges\woods\cadd\050102_dp.dwg
 PLOT DATE : 2.5.2018
 PLOT BY : wwolek
 PLOT NAME : #FILE#
 PLOT SCALE : 1:100
 WSDOT/CADD SHEET 40

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP FOR A LEFT SIDE EXIT RAMP. REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

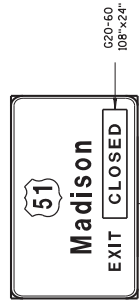
WORK AREAS WITH A DROPOFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN THE WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12-HOUR DURATION.

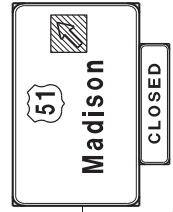
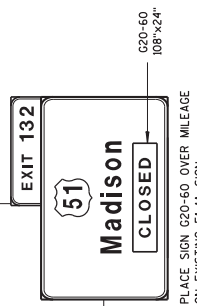
* W20-LAND G20-2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP WILL BE CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.

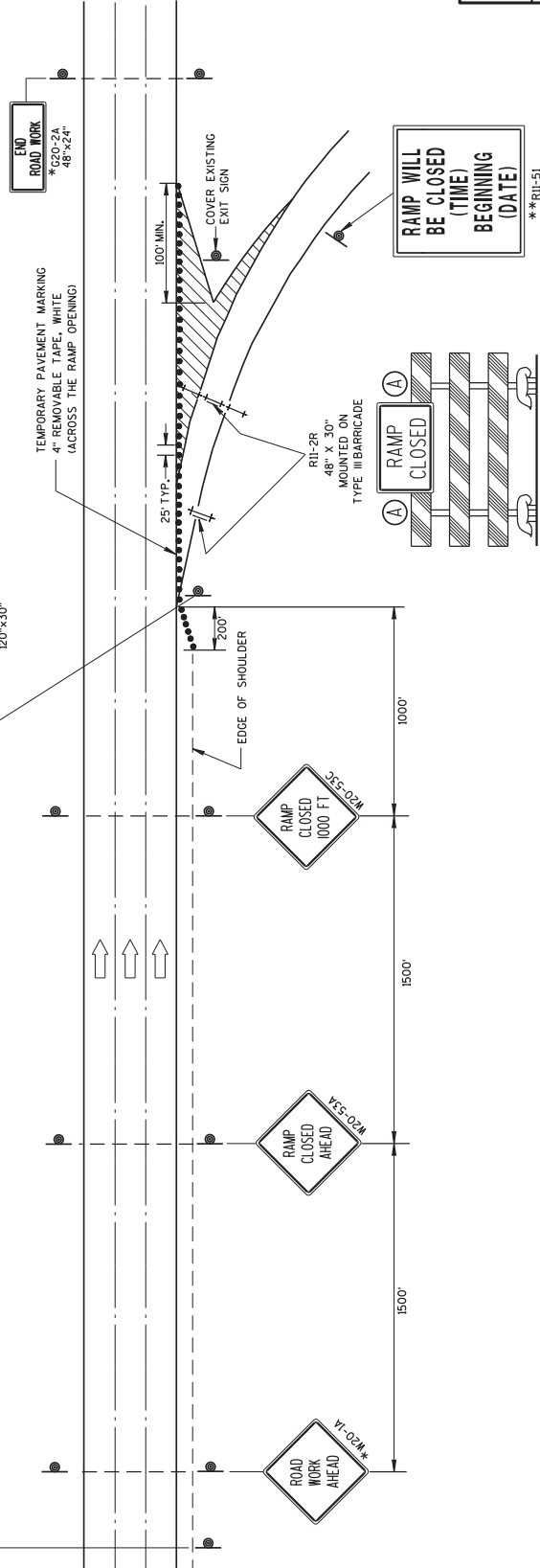
Addendum No. 01
ID 2030-14-70
Added Sheet 204A
February 6, 2018



OR



COVER ARROW ON EXISTING E4-1A SIGN (COVERING SIGNS TYPE 1)



OR SPECIAL SIGN IF INDICATED IN PLAN

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL EXIT RAMP CLOSURE
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED Sept. 2015 DATE /s/ Peter Amokobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER PHWA

STATE PROJECT NUMBER
2030-14-70

DESIGN DATA

LIVE LOAD, LRD
(ORDERS 3 THRU 7)
DESIGN LOADING: HS-20
INVENTORY RATING: HS-20
WISCONSIN STANDARD PERMIT VEHICLE (MS-SPV): 80 KIPS

LEGEND

DIRECTION OF TRAFFIC
☆ PER EXISTING STRUCTURE PLANS
☆ PER EXISTING SURVEY
① WINGWALL NUMBER
▲ CONSTRUCTION MUST BE CHARGED OVERHEAD LINES
▲ ATTACH GUARD RAIL TO WINGWALL PARAPET
● TO MATCH EXISTING

FOUNDATION DATA

USING THE MODIFIED GATES ACCEPTANCE METHOD:
ABUTMENTS AND PIER SHALL BE SUPPORTED ON HP 12 X 53 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE AT THE ABUTMENTS AND PIERS AS DETERMINED BY THE MODIFIED GATES ACCEPTANCE METHOD.

TRAFFIC DATA

STH 100
AADT = 33,430 (2013)
AADT = 41,100 (2035)
RDS = 45 MPH

BENCH MARK DATA

BM NO.	DESCRIPTION	STATION	ELEVATION
BM 8873	PAINTED X IN LIGHT POLE BASE	STA. 5645N+40, 612 LT	774.833
BM 8874	CHISELED X IN ATC TOWER BASE	STA. 5675N+84, 184-41 LT	770.479

GENERAL PLAN & ELEVATION

ORIGINAL PLANS PREPARED BY
KAPUR & ASSOCIATES
CONSULTING ENGINEERS
1414-751-7200

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED
CHIEF STRUCTURES DESIGN ENGINEER
DATE

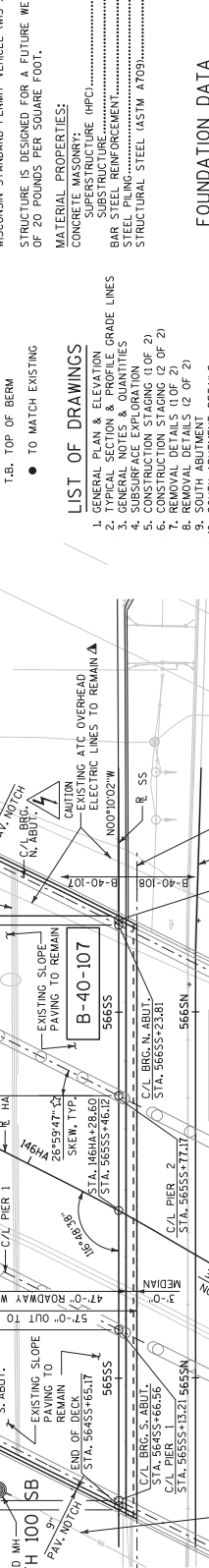
STRUCTURE B-40-107
STH 100 SB OVER HANK AARON STATE TRAIL

COUNTY: MILWAUKEE CITY: WEST ALLIS
DESIGN SPEC: E-26970
REHABILITATION/AASHTO LRFD DESIGN SPECIFICATIONS
BY: MOHAMMED ZAGLOUL
DATE: 02/01/18

GENERAL PLAN & ELEVATION
SHEET 1 OF 34
247

PROF. SEAL: MOHAMMED H. ZAGLOUL
E-26970
MILWAUKEE
WISCONSIN
PROFESSIONAL ENGINEER

WILLIAM C. DELOACH
02/01/18



SEE SHEET 13 FOR WINGWALL 3' LENGTH

EXISTING AT&T W/4" PVC CONDUIT BELOW DECK TO BE REMOVED

EXISTING LIGHTING TO BE REMOVED

PROPOSED LIGHTING TO BE REMOVED

EXISTING AT&T OVERHEAD ELECTRIC LINES TO REMAIN

CAUTION

EXISTING AT&T OVERHEAD ELECTRIC LINES TO REMAIN

PROPOSED LIGHTING

EXISTING SLOPE PAVING TO REMAIN

EXISTING SLOPE PAVING TO REMAIN

EXISTING SLOPE PAVING TO REMAIN

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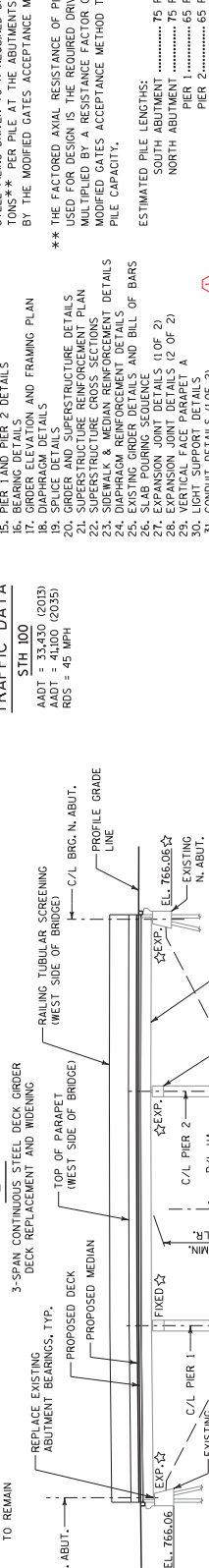
BENCH MARK DATA

ORIGINAL PLANS PREPARED BY
KAPUR & ASSOCIATES
CONSULTING ENGINEERS
1414-751-7200

GENERAL PLAN & ELEVATION

ORIGINAL PLANS PREPARED BY
KAPUR & ASSOCIATES
CONSULTING ENGINEERS
1414-751-7200

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



SEE SHEET 13 FOR WINGWALL 3' LENGTH

EXISTING AT&T W/4" PVC CONDUIT BELOW DECK TO BE REMOVED

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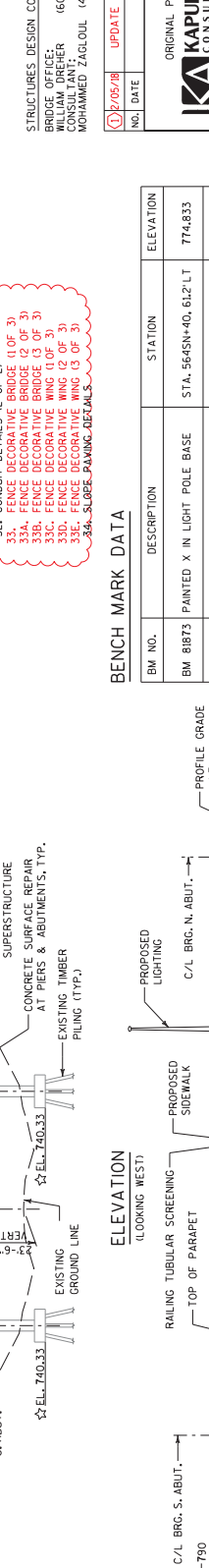
EXISTING SLOPE PAVING TO REMAIN

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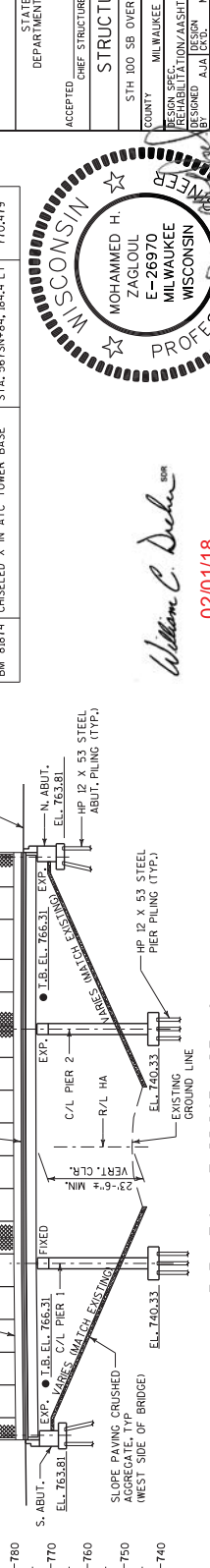
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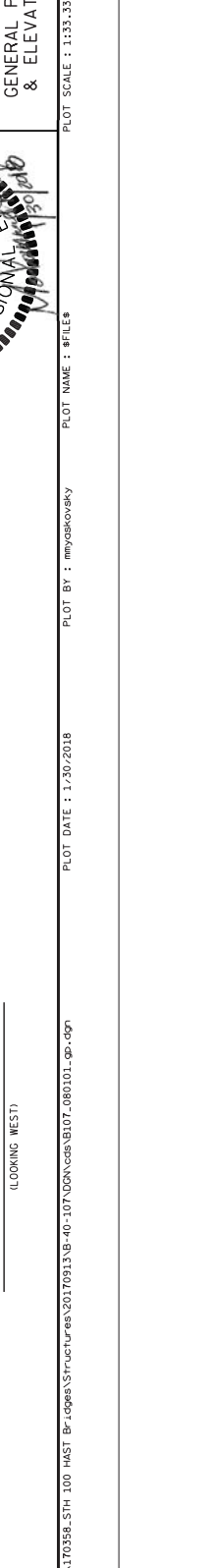
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FILE NAME : S:\DOT\DOT_SE\170358-STH 100 HAST Br\ogee\Structures\20170913\B-40-107\DOCS\B107_080101_dp.dgn

PLOT BY : rmyaskovsky

PLOT DATE : 1.30.2018

PLOT NAME : #FILES

PLOT SCALE : 1:133.3333

Addendum No. 01
ID 2030-14-70
Revised Sheet 247
February 6, 2018

Addendum No. 01
ID 2030-14-70
Revised Sheet 249
February 6, 2018

STATE PROJECT NUMBER
2030-14-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 BAR STEEL REINFORCEMENT WILL BE PLACED WITH 2" OF CLEAR CONCRETE COVER UNLESS OTHERWISE NOTED.
 ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER FRICTION TYPE HIGH-TENSILE STRENGTH BOLTS UNLESS SHOWN OR NOTED OTHERWISE.
 BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
 ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
 DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS UNLESS OTHERWISE NOTED.
 COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (NCS), MILWAUKEE COUNTY, ZONE, MAD 83 (2007). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF MVD 88 (2007).

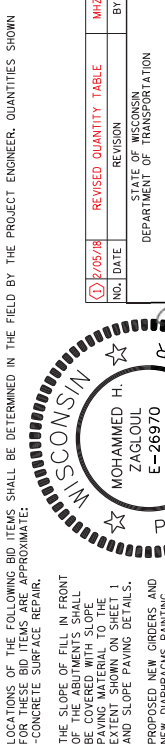
THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT TO BE TAKEN AS A GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE. UTILITIES LABELED AS PROPOSED MAY BE INSTALLED BY OTHERS PRIOR TO THIS CONTRACT.
 THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE. CLEAN AND PAINT ALL EXPOSED STEEL SUPERSTRUCTURE SURFACES UNDERNEATH THE BRIDGE. THE SURFACES INCLUDE GRIDDERS, DIAPHRAGMS, CONNECTIONS, ETC.
 CLEAN AND PAINT ALL EXISTING STEEL BEARINGS AT THE PERS. CLEANING AND PAINTING STEEL BEARINGS TO BE INCLUDED IN THE BID ITEM "STRUCTURE REPAIRING RECYCLED ABRASIVE B-40-107". PAINT APPLICATIONS ON THE BEARINGS SHOULD BE BRUSHED ON.
 EXISTING & PROPOSED STEEL SUPERSTRUCTURE SHALL HAVE A FINISH COAT WITH COLOR TO MATCH SHERWIN WILLIAMS COLOR SW625-DENIM BLUE.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK UNLESS SPECIFIED OTHERWISE.
 EXPANSION JOINT ASSEMBLY INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID FOR IN THE LUMP SUM BID AS "EXPANSION DEVICE B-40-107".
 CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.
 VARIATIONS TO THE NEW GRADE LINE OVER 1/4" MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN SECTION FOR REVIEW.
 THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.1 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR OF 1981.
 THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES BRIDGES B-40-107 SHALL BE THE EXISTING GROUNDLINE.
 AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.
 BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
 BACKFILL AT WINGWALL 3 IS INCLUDED IN ROADWAY QUANTITIES.

THE EXISTING STRUCTURE B-40-107 IS 3-SPAN CONTINUOUS STEEL DECK GIRDER BRIDGE WITH AN OVERALL WIDTH OF 57'-0" AND AN OVERALL LENGTH OF 163'-0". THE DECK, MEDIAN, SIDEWALK AND PARAPETS ARE TO BE REPLACED.
 THE DECK, PARAPET, SIDEWALK AND MEDIAN CONCRETE QUANTITY SHALL BE PAID FOR UNDER BID ITEM "MASONRY STRUCTURES".
 APPLY PIGMENTED SURFACE SEALER TO THE TOP & INSIDE FACE OF PARAPETS ON THE BRIDGE.
 APPLY PROTECTIVE SURFACE TREATMENT TO THE DECK, SIDEWALK AND MEDIAN ON THE BRIDGE.
 COMPRESSION JOINT SEAL 2 1/4" BETWEEN BRIDGES B-40-107 AND B-40-108 TO BE PAID FOR UNDER BRIDGE B-40-108.
 LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE BID ITEMS ARE APPROXIMATE:
 -CONCRETE SURFACE REPAIR.

THE SLOPE OF FILL IN FRONT OF THE STRUCTURE SHALL BE COVERED WITH SOPEL PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND SLOPE PAVING DETAILS.
 PROPOSED NEW GRIDDERS AND NEW DIAPHRAGMS PAINTING ARE INCLUDED IN THE BID ITEM "STRUCTURE REPAIRING RECYCLED ABRASIVE B-40-107".
 SYSTEM PAINTING EPOXY EXISTING GRIDDERS AND EXISTING DIAPHRAGMS PAINTING ARE INCLUDED IN THE BID ITEM "STRUCTURE REPAIRING RECYCLED ABRASIVE B-40-107".

REVISION NO. DATE REVISION BY
 1 2/09/18
 STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 STRUCTURE B-40-107
 GENERAL NOTES & QUANTITIES
 SHEET 3 OF 34
 249



TOTAL ESTIMATED QUANTITIES

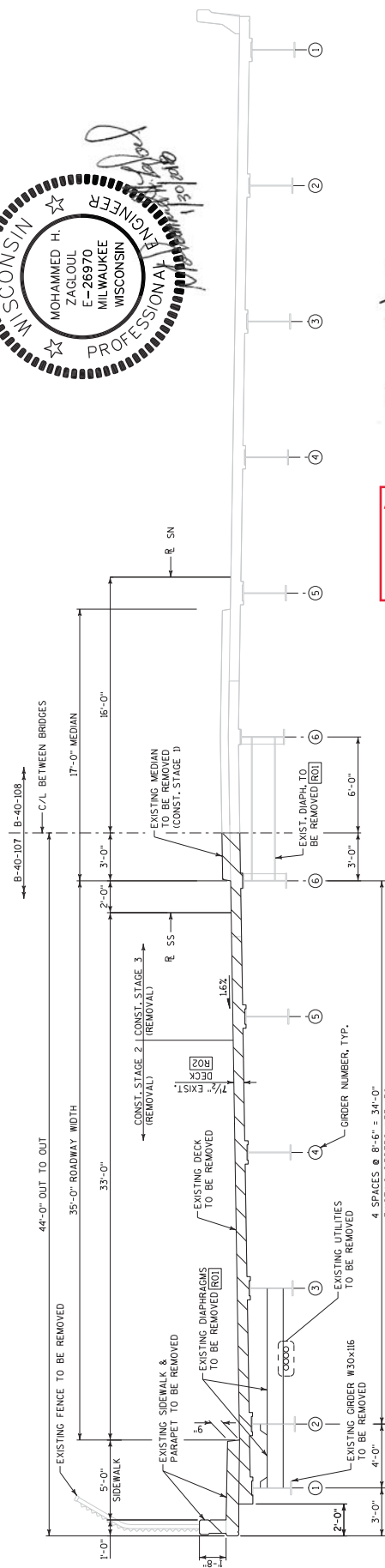
ITEM NO.	BID ITEMS	UNIT	SOUTH ABUTMENT	PIER 1	PIER 2	NORTH ABUTMENT	SUPER.	TOTAL
203.0200.4000	REMOVING OLD STRUCTURE STA. 56555+00	LS	-	-	-	-	-	1
203.0225.5.4001	DEBRIS CONTAINMENT B-40-107	LS	-	-	-	-	-	1
206.1000.4002	EXCAVATION FOR STRUCTURES BRIDGES B-40-107	LS	-	-	-	-	-	1
240.2800	BACKFILL STRUCTURE TYPE A	TON	136	336	336	123	-	931
502.0100	CONCRETE MASONRY BRIDGES	CY	40	14	14	55	-	123
502.3100.4003	EXPANSION DEVICE B-40-107	LS	-	-	-	-	-	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	-	1,014	1,014
502.3300	PIGMENTED SURFACE SEALER	SY	-	-	-	-	64	64
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	104	-	-	104	-	208
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	9	12	12	14	-	47
502.4208	ADHESIVE ANCHORS NO. 8 BAR	EACH	5	-	-	-	-	5
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,350	750	750	2,360	-	5,210
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,900	4,970	4,970	4,840	-	86,300
506.0605	STRUCTURAL STEEL HS	LB	-	-	-	-	51,374	51,374
506.3014	WELDED STUD SHEAR CONNECTORS 3/4X6-INCH	EACH	-	-	-	-	866	866
506.5000.4005	BEARING ASSEMBLIES FIXED B-40-107	EACH	-	2	-	-	-	2
506.6000.4006	BEARING ASSEMBLIES EXPANSION B-40-107	EACH	7	2	7	-	-	16
506.7050.5.4007	REMOVING BEARINGS B-40-107	EACH	5	-	5	-	-	10
509.1800	CONCRETE SURFACE REPAIR	SF	20	10	10	20	-	60
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	II	-	-	-	II	22
517.0600.4009	PAINTING EPOXY SYSTEM B-40-107	LS	-	-	-	-	-	1
517.0900.5.4010	PREPARATION AND COATING OF TOP FLANGES B-40-107	LS	-	-	-	-	-	1
517.1800.5.4011	STRUCTURE REPAIRING RECYCLED ABRASIVE B-40-107	LS	-	-	-	-	-	1
517.4500.5.4012	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-40-107	LS	-	-	-	-	-	1
517.6001.5	PORTABLE DECONTAMINATION FACILITY	EACH	-	-	-	-	-	1
550.0500	PILE POINTS	EACH	7	6	6	6	-	25
550.1120	PIILING STEEL HP 12-INCH X 53 LB	LF	525	390	390	450	-	1,755
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	120	-	-	14	-	234
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	50	-	-	75	-	125
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	-	-	-	-	-	1
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	14	-	-	14	-	28
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	-	-	-	-	50	50
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	-	-	-	-	500	500
653.0220	JUNCTION BOXES 18X12X6-INCH	EACH	-	-	-	-	3	3
653.0222	JUNCTION BOXES 18X12X6-INCH	EACH	-	-	-	-	1	1
657.6005	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	CY	-	-	-	-	-	1
SPV-0035-4000	MASONRY STRUCTURES	CY	1	-	-	4	293	298
SPV-0090-4000	FENCE DECORATIVE BRIDGE	LF	47	-	-	-	170	170
SPV-0090-4405	FENCE DECORATIVE WING	LF	47	-	-	-	47	47
SPV-0090-4700	LONGITUDINAL GROOVING BRIDGE DECK	SF	-	-	-	-	7,522	7,522
SPV-0180-4750	CLEAN ABUTMENT SEATS	SY	4	-	-	4	-	8
	NON-BID ITEMS							
	PERFORMED JOINT FILLER	SIZE	-	-	-	-	-	3/4" x 1" x 1/2"
	NON-BOTTOMOUS JOINT FILLER	SIZE	-	-	-	-	-	1/2"
	CORK FILLER	SIZE	-	-	-	-	-	3/4"
	NAME PLATE	EACH	-	-	-	-	-	1

William C. Decker 02/01/18

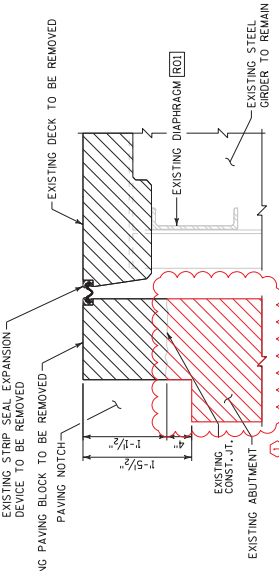


William C. Dehn
02/01/18

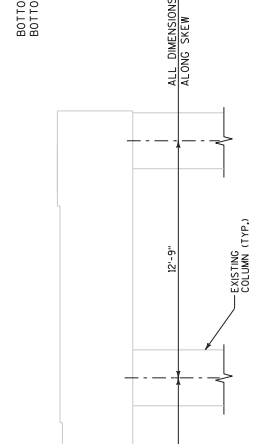
Addendum No. 01
ID 2030-14-70
Revised Sheet 253
February 6, 2018



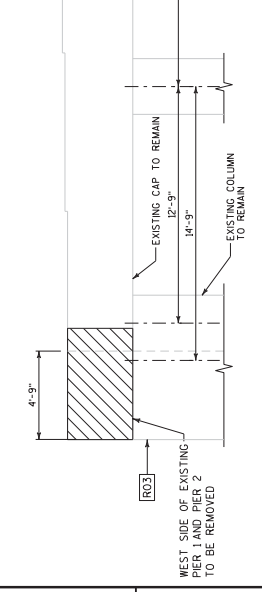
EXISTING TYPICAL SECTION
(LOOKING NORTH)



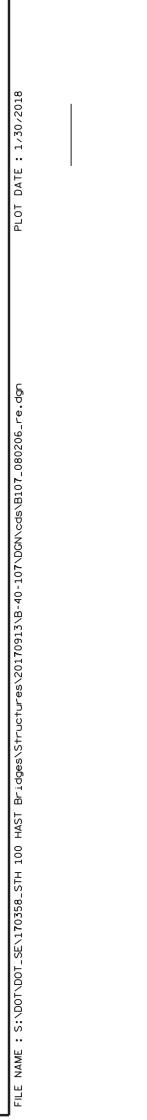
REMOVAL SECTION AT ABUTMENT



PARTIAL REMOVAL PLAN AT PIER



TYPICAL REMOVAL SECTION AT PIER
(LOOKING NORTH)
DIMENSIONS SHOWN ALONG SKEW



LEGEND

- REMOVAL AREA
- EXISTING DIAPHRAGMS BETWEEN GIRDER 3 AND GIRDER 6 ARE TO REMAIN. ALL OTHER DIAPHRAGMS ON BRIDGE B-40-107 ARE TO BE REMOVED INCLUDING THE DIAPHRAGM CONNECTED TO BRIDGE B-40-108
- SEE CONSTRUCTION STAGING PLANS FOR DECK PARTIAL REMOVAL
- PRESERVE EXISTING COLUMN REINFORCEMENT
- GIRDER NUMBER

NOTES

DIMENSIONS ARE TAKEN FROM THE EXISTING STRUCTURE PLAN.
SEE SHEET 8 FOR REMOVAL DETAILS AT ABUTMENTS.

NO.	DATE	REVISION	BY
1	2/05/18	REVISED REMOVAL LIMITS	MHZ

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURE B-40-107

REMOVAL DETAILS (1 OF 2)
SHEET 7 OF 34
253

STATE PROJECT NUMBER

2030-14-70

NOTES

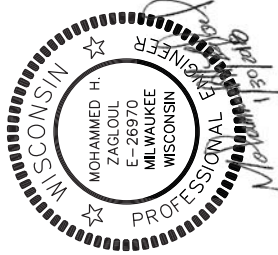
DIMENSIONS ARE TAKEN FROM THE EXISTING STRUCTURE PLAN.
SEE SHEETS 5 & 6 FOR CONSTRUCTION STAGING.
SEE SHEET 7 FOR SUPERSTRUCTURE REMOVAL DETAILS.

LEGEND

- REMOVAL AREA
- WINGWALL NUMBER
- GIRDER NUMBER

Addendum No. 01
ID 2030-14-70
Revised Sheet 254
February 6, 2018

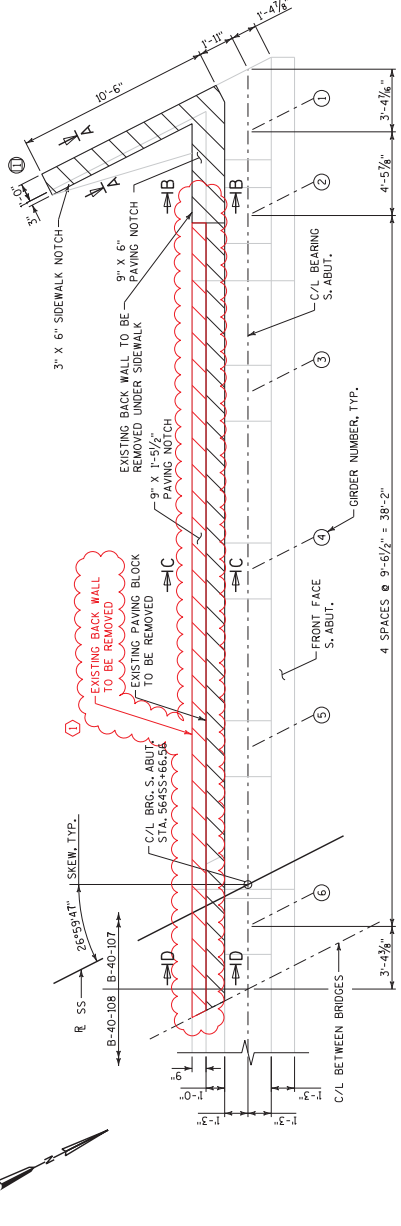
William C. DeLuca
02/01/18



NO.	DATE	REVISION	REMOVED	LIMITS	MHZ	BY
1	2/02/18					

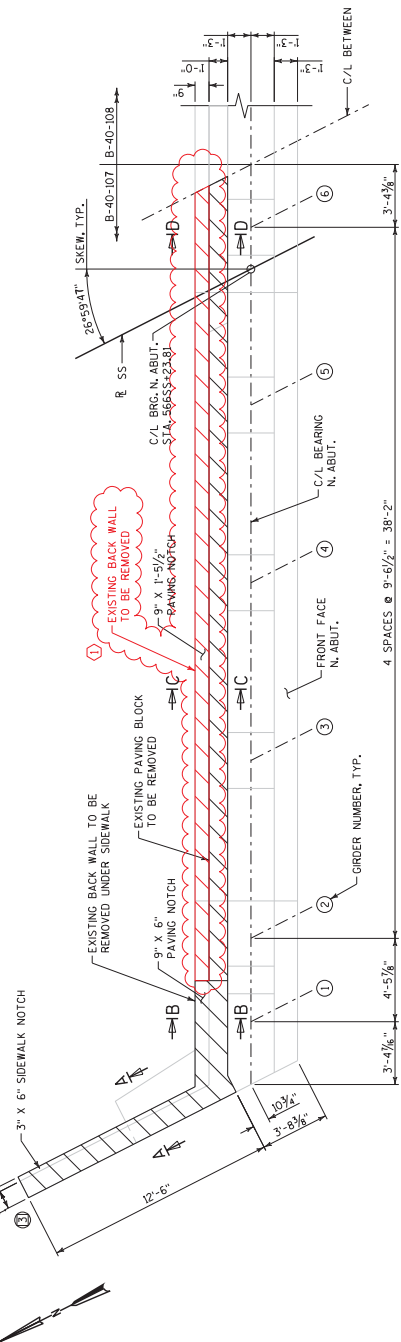
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-107		BY	DATE	BY	DATE
REMOVAL DETAILS (2 OF 2)		SHEET 8 OF 34			
254		PLOT SCALE : 1:16.66667			



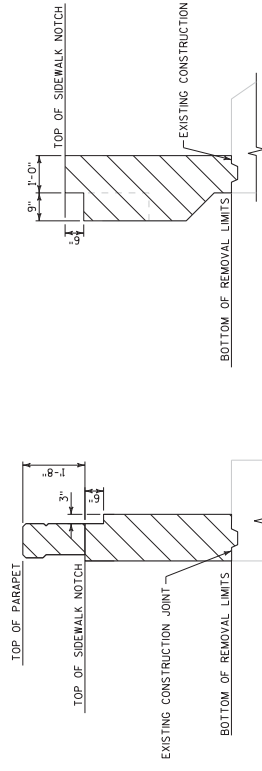
SOUTH ABUTMENT REMOVAL PLAN
DIMENSIONS ALONG C/L BEARING

4 SPACES @ 9'-6 1/2" = 38'-2"



NORTH ABUTMENT REMOVAL PLAN
DIMENSIONS ALONG C/L BEARING

4 SPACES @ 9'-6 1/2" = 38'-2"



SECTION A-A
(FENCE NOT SHOWN FOR CLARITY)

SECTION B-B

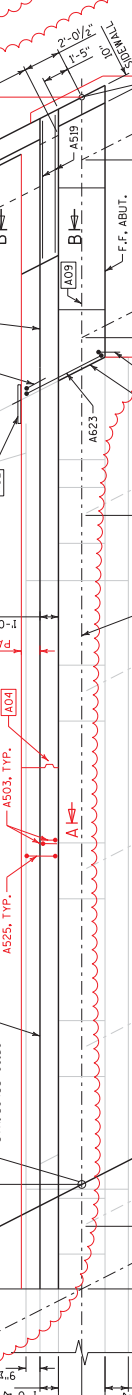
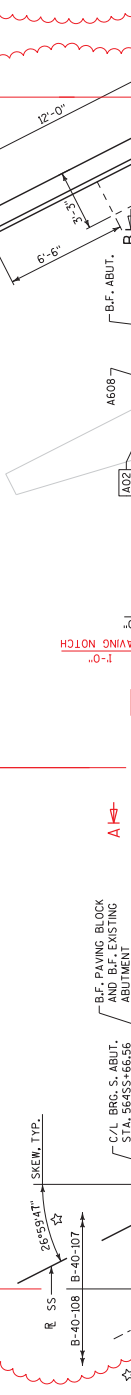
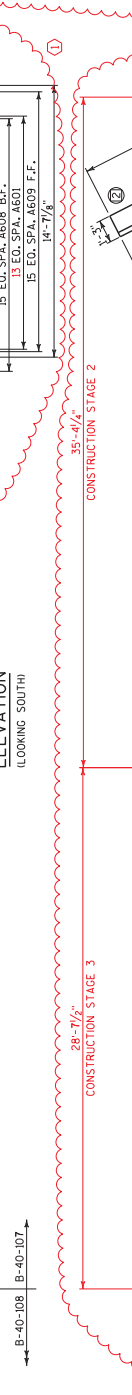
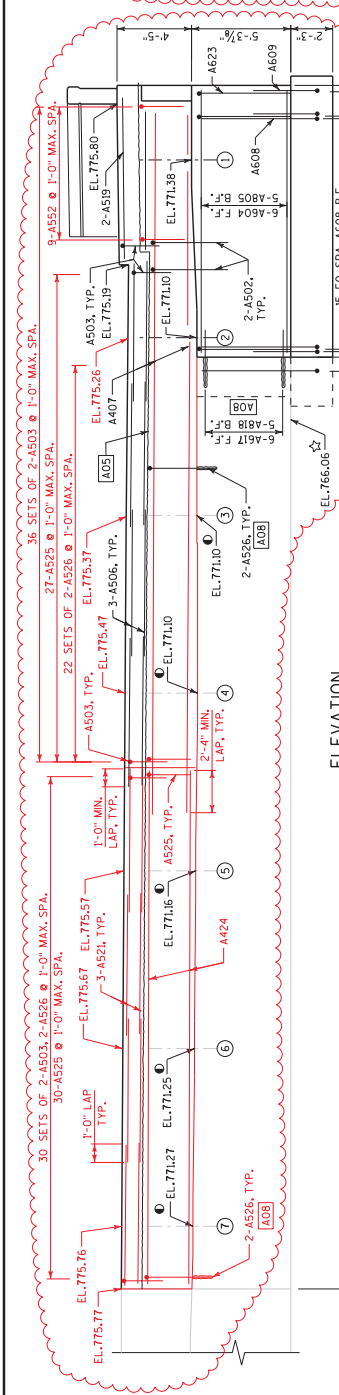
SECTION C-C

LEGEND

- A02 REINFORCED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENTS.
- A03 PIPE UNDERDRAIN WRAPPED .6-INCH SLOPE 0.5% MIN. CONNECT TO EXISTING 8" PIPE UNDERDRAIN.
- A04 KEYS CONSTRUCTION JOINT FORMED BY BEVELED 2"X6" CONST. JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE (STRIKE OFF AND LEAVE ROUGH).
- A05 ROUGHEN SURFACE OF CONCRETE 1/4" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.
- A08 ADHESIVE ANCHORS:
NO.4 BARS EMBED 0'-10", MIN. EDGE DISTANCE 3"
NO.5 BARS EMBED 1'-1", MIN. EDGE DISTANCE 4"
NO.6 BARS EMBED 1'-3", MIN. EDGE DISTANCE 4 1/2"
NO.8 BARS EMBED 1'-6", MIN. EDGE DISTANCE 6"
- A09 MATCH EXISTING ABUTMENT CENTER LINE BEARING

NOTE

EXCAVATIONS BELOW THE EXISTING FOUNDATION SHALL BE FILLED WITH CONCRETE.



FOOTING REINFORCEMENT PLAN

NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-107

DESIGNED BY: JAW/MSH

CHECKED BY: JAW/MSH

DATE: 02/01/18

REVISION: EXIST. ABUT. BACKWALL REPLACED

PROJECT: 2030-14-70

SHEET 9 OF 34

255

SOUTH ABUTMENT

PROFESSIONAL ENGINEER

WISCONSIN

MOHAMMED H. ZAGLOUL
E-26970
MILWAUKEE
WISCONSIN

02/01/18

William C. Decker

FILE NAME : S:\DOT\DOT_SE\170358.S1M 100 HAST Br-ogee\Structures\20170913\B-40-107\DOCS\B107_080301...db.dgn

PLOT DATE : 1/30/2018

PLOT BY : mmyoskovsky

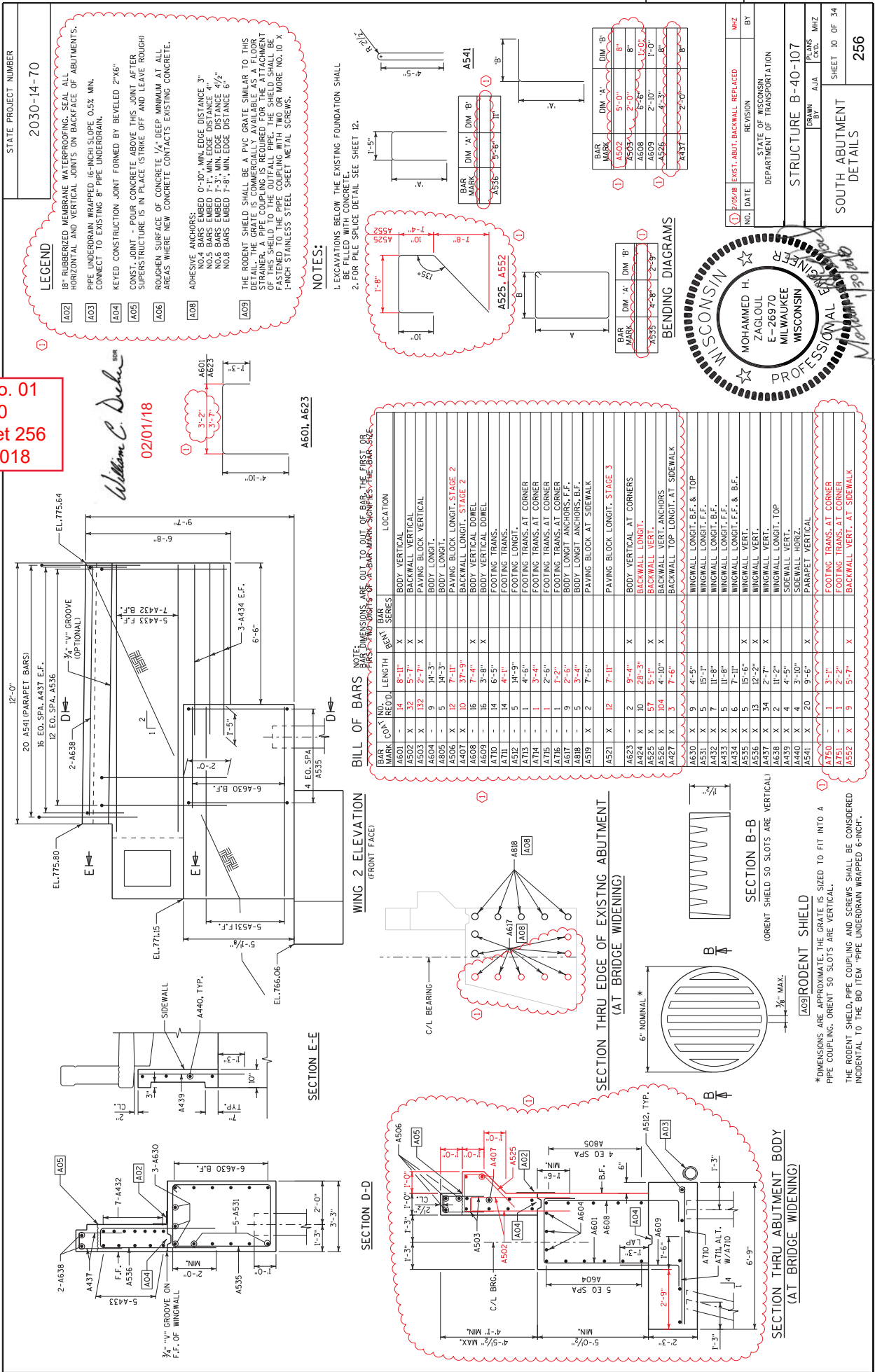
PLOT NAME : #FILES

PLOT SCALE : 1:16.66667

Addendum No. 01
ID 2030-14-70
Revised Sheet 255
February 6, 2018

Addendum No. 01
 ID 2030-14-70
 Revised Sheet 256
 February 6, 2018

William C. Dehn
 02/01/18

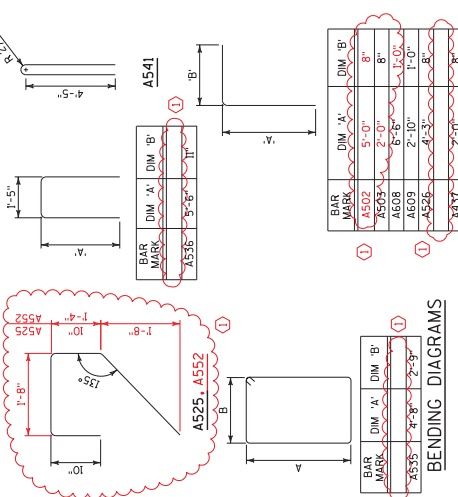


STATE PROJECT NUMBER
 2030-14-70

- LEGEND**
- A02** 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENTS.
 - A03** PIPE UNDERDRAIN WRAPPED, (5-INCH SLOPE 0.5% MIN. CONNECT TO EXISTING 8" PIPE UNDERDRAIN.
 - A04** KEED CONSTRUCTION JOINT FORMED BY BEVELED 2"x6"
 - A05** CONST. JOINT - POOR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE (STRIKE OFF AND LEAVE ROUGH)
 - A06** ROUGHEN SURFACE OF CONCRETE 1/2" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.
 - A08** ADHESIVE ANCHORS:
 NO. 4 BARS EMBED 0'-10", MIN. EDGE DISTANCE 3"
 NO. 5 BARS EMBED 1'-1", MIN. EDGE DISTANCE 4"
 NO. 6 BARS EMBED 1'-3", MIN. EDGE DISTANCE 4 1/2"
 NO. 8 BARS EMBED 1'-8", MIN. EDGE DISTANCE 6"
 - A09** THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THE ROBERT SHIELD. THE COUPLING SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

NOTES:

- EXCAVATIONS BELOW THE EXISTING FOUNDATION SHALL BE FILLED WITH CONCRETE.
- FOR PILE SPALICE DETAIL SEE SHEET 12.



BENDING DIAGRAMS

BAR MARK	DIM. 'A'	DIM. 'B'
A502	5'-0"	8"
A509	2'-0"	8"
A608	9'-10"	1'-0"
A552	4'-3"	8"
A437	2'-0"	8"
A535	4'-8"	2'-3"

BILL OF BARS NOTE: DIMENSIONS ARE OUT TO JOINT OF BARS, THE FIRST OR LAST DIMENSION IS UP OR DOWN, WHICHEVER APPLIES TO THE BAR/BUILD.

BAR MARK	QTY	NO.	RECD.	LENGTH	SERIES	LOCATION
A601	14	8'-11"	X			BODY VERTICAL
A502	32	5'-7"	X			BACKWALL VERTICAL
A503	132	2'-7"	X			PAVING BLOCK VERTICAL
A604	9	14'-3"	X			BODY LONGIT.
A605	5	14'-3"	X			PAVING BLOCK LONGIT. STAGE 2
A506	10	37'-10"	X			BACKWALL LONGIT. STAGE 2
A607	16	7'-4"	X			BODY VERTICAL DOME
A608	16	7'-4"	X			BODY VERTICAL DOME
A609	16	7'-4"	X			FOOTING TRANS.
A437	14	4'-3"	X			FOOTING LONGIT.
A512	5	14'-9"	X			FOOTING TRANS. AT CORNER
A438	1	4'-6"	X			FOOTING TRANS. AT CORNER
A439	1	3'-4"	X			FOOTING TRANS. AT CORNER
A440	1	2'-6"	X			FOOTING TRANS. AT CORNER
A441	1	1'-2"	X			FOOTING TRANS. AT CORNER
A442	5	2'-6"	X			BODY LONGIT. ANCHORS, B.F.
A443	2	7'-6"	X			PAVING BLOCK AT SIDEWALK
A521	12	7'-11"	X			PAVING BLOCK LONGIT. STAGE 3
A623	2	8'-4"	X			BODY VERTICAL AT CORNERS
A504	17	6'-3"	X			BACKWALL LONGIT.
A556	104	4'-10"	X			BACKWALL VERT. ANCHORS
A427	3	7'-6"	X			BACKWALL TOP LONGIT. AT SIDEWALK
A630	9	4'-5"	X			WINGWALL LONGIT. B.F. & TOP
A531	5	15'-1"	X			WINGWALL LONGIT. F.F.
A432	7	11'-8"	X			WINGWALL LONGIT. B.F.
A433	5	11'-8"	X			WINGWALL LONGIT. F.F.
A434	6	7'-11"	X			WINGWALL LONGIT. F.F. & B.F.
A535	5	15'-6"	X			WINGWALL VERT.
A536	13	12'-2"	X			WINGWALL VERT.
A437	4	2'-7"	X			WINGWALL LONGIT. TOP
A438	4	4'-5"	X			SIDEWALL VERT.
A439	4	4'-5"	X			SIDEWALL VERT.
A440	20	6'-6"	X			PARAPET VERTICAL
A460	1	3'-1"	X			FOOTING TRANS. AT CORNER
A451	1	2'-2"	X			FOOTING TRANS. AT SIDEWALK
A552	9	5'-7"	X			BACKWALL VERT. AT SIDEWALK

SECTION B-B
 (ORIENT SHIELD SO SLOTS ARE VERTICAL)

SECTION D-D
 (ORIENT SHIELD SO SLOTS ARE VERTICAL)

SECTION E-E
 (ORIENT SHIELD SO SLOTS ARE VERTICAL)

SECTION THRU EDGE OF EXISTING ABUTMENT (AT BRIDGE WIDENING)

SECTION THRU ABUTMENT BODY (AT BRIDGE WIDENING)

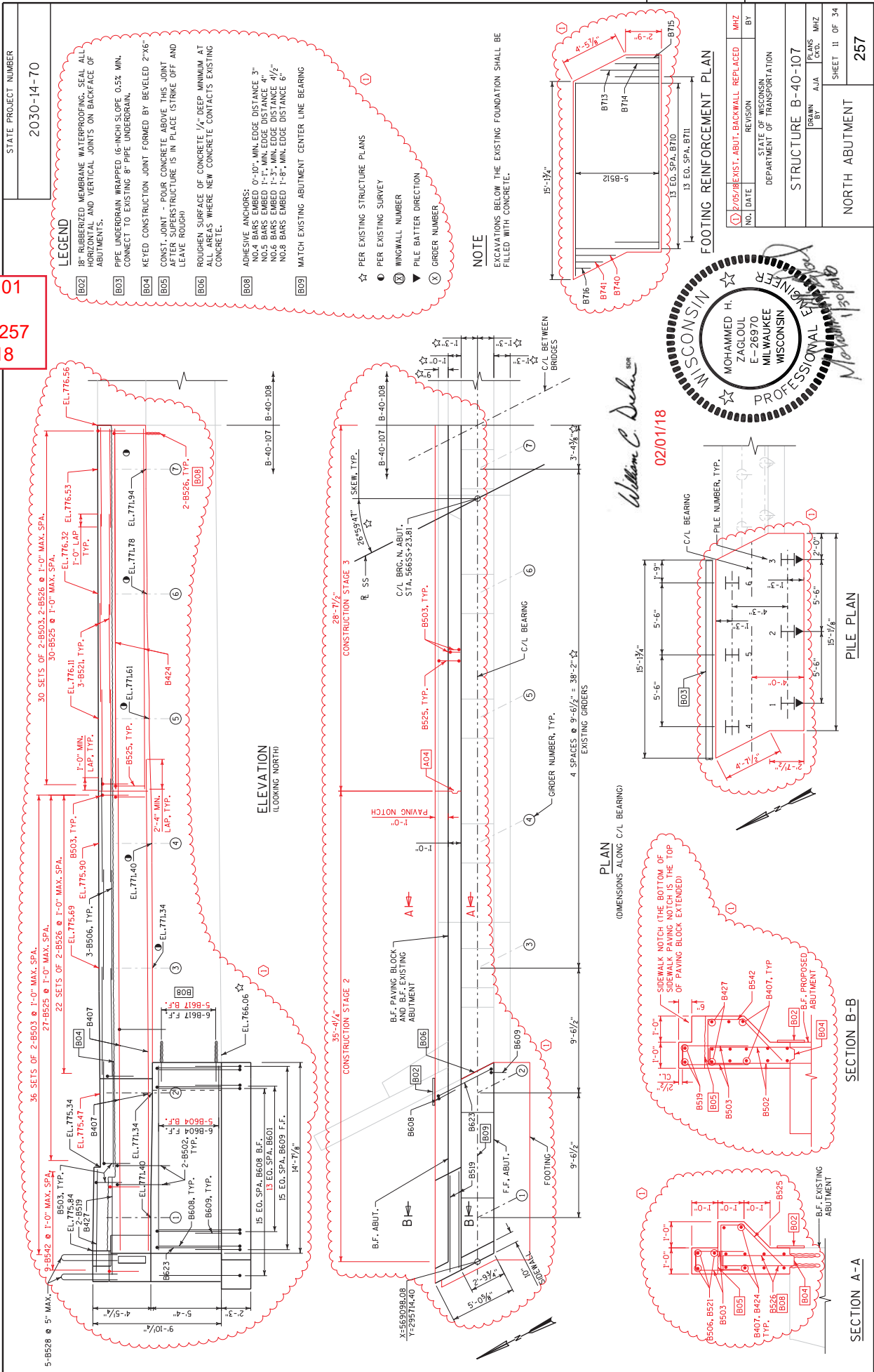
SECTION THRU ABUTMENT BODY (AT BRIDGE WIDENING)

*DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

PLOT NAME : S:\DOT\DOT_SE\170358_S\100_HAST Br-coeges\Structure\20170913\B-40-107\DOO\cds\B107.080302.cd.dgn
 FILE NAME : S:\DOT\DOT_SE\170358_S\100_HAST Br-coeges\Structure\20170913\B-40-107\DOO\cds\B107.080302.cd.dgn
 PLOT DATE : 1.30.2018
 PLOT BY : rmydskovsky
 PLOT NAME : #FILES
 WISCONSIN PROFESSIONAL ENGINEER
 MOHAMMED H. ZAGLOUL
 E-26970
 MILWAUKEE WISCONSIN
 STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
 STRUCTURE B-40-107
 SOUTH ABUTMENT DETAILS
 SHEET 10 OF 34
 256
 PLOT SCALE : 1:18

Addendum No. 01
 ID 2030-14-70
 Revised Sheet 257
 February 6, 2018



FILE NAME : S:\NDOT\DOT_SE\170358_S1H_100_HAST Br_cages\Structures\20170913\B-40-107\DOCS\B107_080311...db.dgn
 PLOT DATE : 1/30/2018
 PLOT BY : rmyoskovsky
 PLOT NAME : #FILES
 PLOT SCALE : 1:16.66667

LEGEND

- B02** 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENTS.
- B03** PIPE UNDERDRAIN WRAPPED (5-INCH SLOPE 0.5% MIN. CONNECT TO EXISTING 8" PIPE UNDERDRAIN.
- B04** KEYS CONSTRUCTION JOINT FORMED BY BEVELED 2"x6" CONST. JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE (STRIKE OFF AND LEAVE ROUGH)
- B06** ROUGHEN SURFACE OF CONCRETE 1/4" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.
- B08** ADHESIVE ANCHORS:
NO.4 BARS EMBED 0"-10", MIN. EDGE DISTANCE 3"
NO.6 BARS EMBED 1"-3", MIN. EDGE DISTANCE 4 1/2"
NO.8 BARS EMBED 1'-8", MIN. EDGE DISTANCE 6"
- B09** THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STAIRWELL COVER. THE COUPLING REQUIRED FOR THE ATTACHMENT OF THE RODENT SHIELD SHALL BE A 1/2" DIA. STAINLESS STEEL FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO.10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

NOTE

EXCAVATIONS BELOW THE EXISTING FOUNDATION SHALL BE FILLED WITH CONCRETE.



NO. DATE	2/05/18	EXIST. ABUT. BACKWALL REPLACED	MRZ
BY		REVISION	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-107			
BRWN	AJA	CCO	MRZ
SHEET 12 OF 34			258
NORTH ABUTMENT			DETAILS

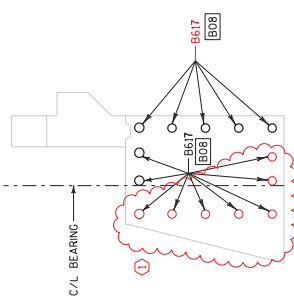
PLOT SCALE : 1:18

Addendum No. 01
ID 2030-14-70
Revised Sheet 258
February 6, 2018

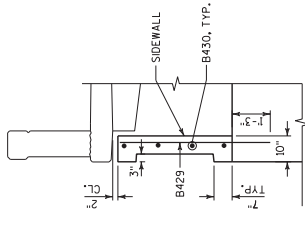
BILL OF BARS

BAR NO.	CO. NO.	NO. OF BARS	LENGTH	LOCATION
B501	X	14	8'-11"	BODY VERTICAL
B502	X	32	5'-7"	BACKWALL VERTICAL
B503	X	32	2'-7"	PAVING BLOCK VERTICAL
B604	-	14	14'-3"	BODY LONGIT.
B506	X	12	7'-11"	PAVING BLOCK LONGIT. STAGE 2
B407	X	10	37'-9"	BACKWALL LONGIT. STAGE 2
B608	-	16	7'-4"	BODY VERTICAL DOWEL
B609	-	16	3'-8"	BODY VERTICAL DOWEL
B710	-	14	4'-5"	FOOTING TRANS.
B52	-	5	14'-9"	FOOTING LONGIT.
B713	-	1	4'-6"	FOOTING TRANS. AT CORNER
B715	-	1	2'-6"	FOOTING TRANS. AT CORNER
B716	-	1	5'-2"	FOOTING TRANS. AT CORNER
B617	-	14	2'-6"	BODY LONGIT. ANCHORS, F.F.
B519	X	2	7'-6"	PAVING BLOCK AT SIDEWALK
B521	X	12	7'-11"	PAVING BLOCK LONGIT. STAGE 3
B623	-	2	9'-4"	BODY VERTICAL AT CORNERS
B424	X	10	28'-3"	BACKWALL LONGIT.
B525	X	57	5'-1"	BACKWALL VERT.
B427	X	3	7'-6"	BACKWALL TOP LONGIT. AT SIDEWALK
B528	X	5	9'-6"	PROWELT DOWEL
B429	X	4	4'-5"	SIDEWALL VERT.
B430	X	4	3'-10"	SIDEWALL HORZ.
B740	-	1	3'-1"	FOOTING TRANS. AT CORNER
B741	-	1	2'-2"	FOOTING TRANS. AT CORNER
B542	X	9	5'-7"	BACKWALL VERT. AT SIDEWALK

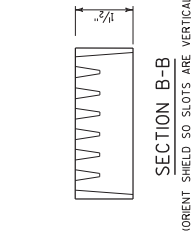
NOTE: DIMENSIONS ARE OUT TO OUT OF BAR. THE FIRST OR LAST TWO DIGITS OF A BAR MARK SIGNIFY THE BAR SIZE



SECTION THRU EDGE OF EXISTING ABUTMENT (AT BRIDGE WIDENING)

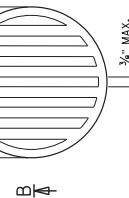


SECTION THRU SIDEWALL



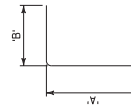
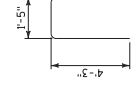
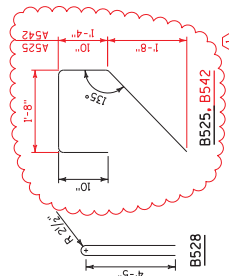
SECTION B-B

ORIENT SHIELD SO SLOTS ARE VERTICAL



B09 RODENT SHIELD

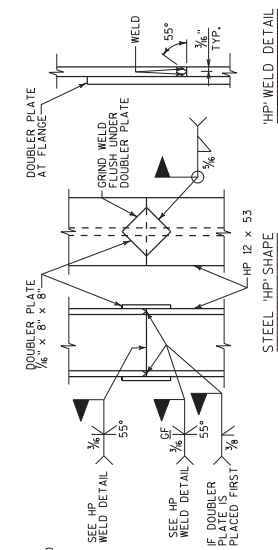
*DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".



BENDING DIAGRAMS

BAR MARK	DIM. 'A'	DIM. 'B'
B502	5'-0"	8"
B608	2'-0"	8"
B609	6'-6"	1'-0"
B526	2'-10"	1'-0"
B526	4'-3"	8"

William C. Decker
02/01/18



PILE SPLICE DETAIL

FLANGE SHOWN, WEB SIMILAR

PLOT BY : rmyakovskiy

PLOT DATE : 1.30.2018

FILE NAME : S:\DOT\DOT_SE\170358_S1H_100_HAST Br_rdgges\Structures\20170913\B-40-107\DOCS\B107_080312.dwg

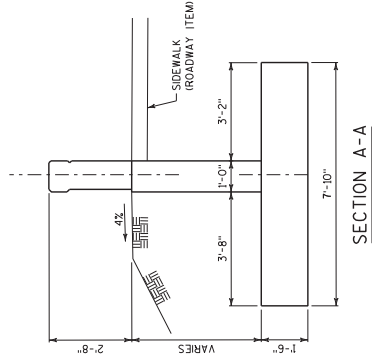
STATE PROJECT NUMBER
2030-14-70

LEGEND

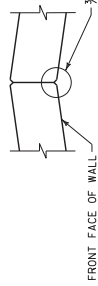
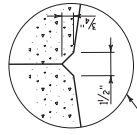
- W01** 3/4" PREFORMED JOINT FILLER WITH NON-BITUMINOUS JOINT SEALER BETWEEN VERTICAL SURFACES
- W02** 18" RUBBERIZED MEMBRANE WATERPROOFING

NOTE

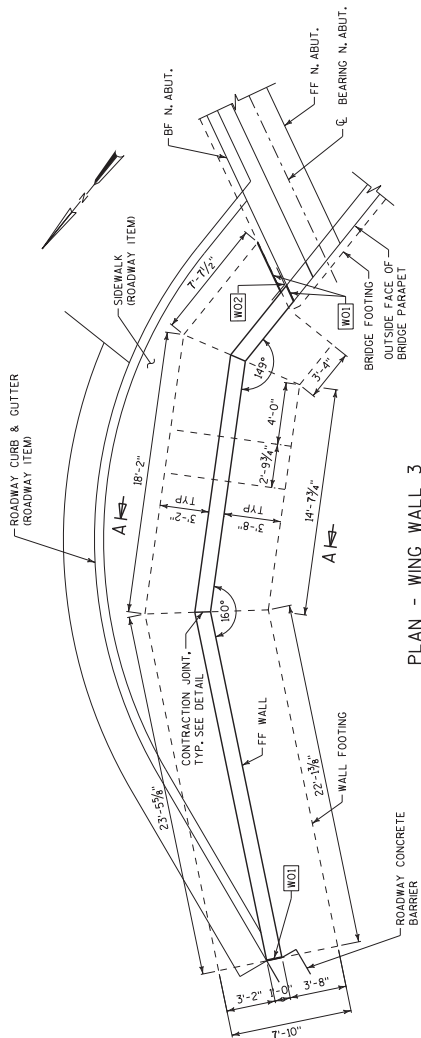
MINIMUM FACTORED BEARING RESISTANCE = 1600 PSF



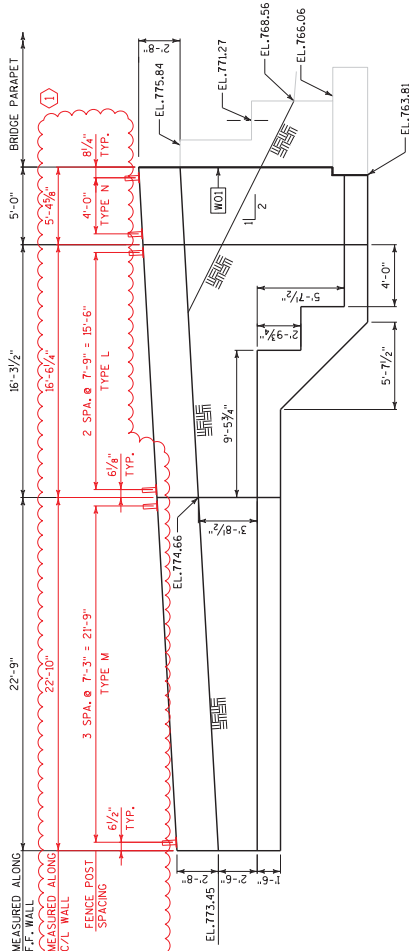
SECTION A-A



VERTICAL CONTRACTION JOINT

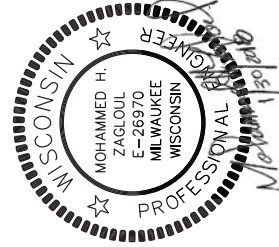


PLAN - WING WALL 3



WING WALL 3 ELEVATION
DIMENSIONS ARE ALONG FRONT FACE OF WALL

Addendum No. 01
ID 2030-14-70
Revised Sheet 259
February 6, 2018



William C. Decker

02/01/18

NO.	DATE	REVISION	BY
1	7/05/18	REVISED FENCE POST SPACING	MHZ

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
STRUCTURE B-40-107	DATE: MM/YY/CC
NORTH ABUTMENT WING WALL DETAILS (1 OF 2)	SHEET 13 OF 34
259	

PLOT SCALE : 1:8

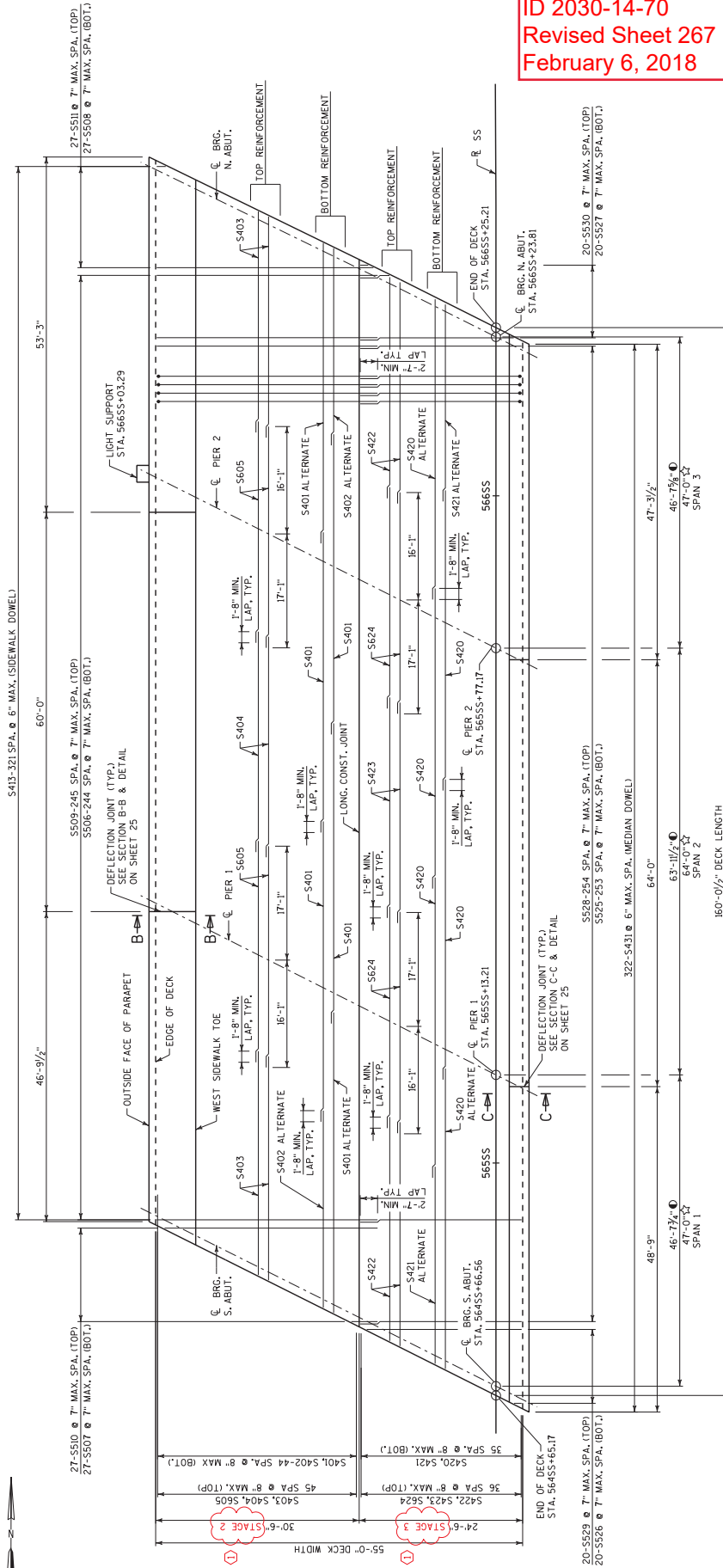
PLOT NAME : #FILES

PLOT BY : rmyoskovsky

PLOT DATE : 1.30/2018

FILE NAME : S:\DOT\DOT_SE\170358_S1M_100_HAST_Br_cages\Structures\20170913\B-40-107\DWG\Cds\B107_080313...ob.dgn

STATE PROJECT NUMBER
2030-14-70



Addendum No. 01
ID 2030-14-70
Revised Sheet 267
February 6, 2018

LEGEND

- ☆ PER EXISTING STRUCTURE PLANS
- PER EXISTING SURVEY

NO.	DATE	REVISION	REVISOR	BY
1	7/05/18	REVISED STAGE NUMBERING	MHZ	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-107

BRWN	AJA	PLANS	MHZ
CCD			

SHEET 21 OF 34

SUPERSTRUCTURE
REINFORCEMENT
PLAN

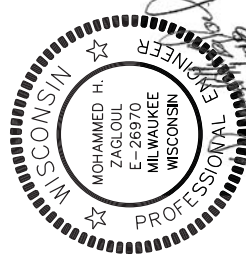
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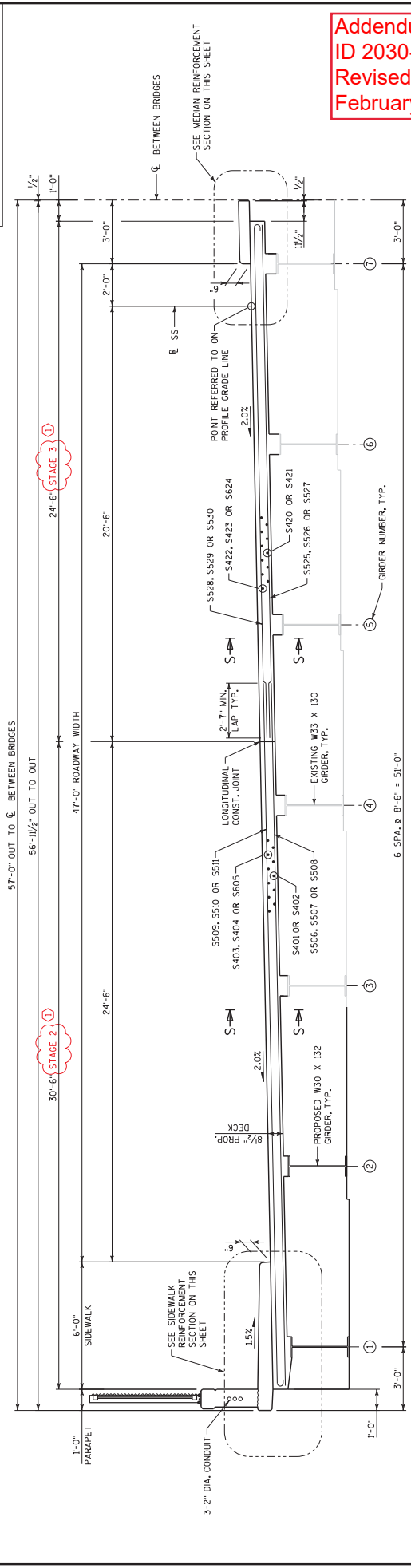
NOTES

- FOR SECTION THRU DECK, SIDEWALK & MEDIAN, SEE SHEET 22.
- FOR SIDEWALK & MEDIAN REINFORCEMENT DETAILS, SEE SHEET 23.
- FOR EXPANSION DIAPHRAGM REINFORCEMENT, SEE SHEET 24.
- FOR SECTIONS B-B & C-C, SUPERSTRUCTURE BILL OF BARS & HAUNCH REINFORCEMENT, SEE SHEET 25.
- FOR PARAPET REINFORCEMENT DETAILS, SEE SHEET 29.
- FOR LIGHT SUPPORT REINFORCEMENT, SEE SHEET 30.

William C. DeLuca
02/01/18

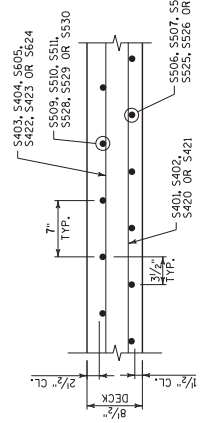
DECK REINFORCEMENT PLAN



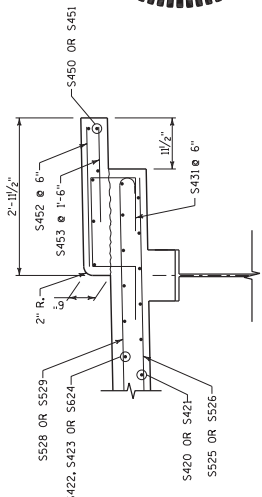


Addendum No. 01
ID 2030-14-70
Revised Sheet 268
February 6, 2018

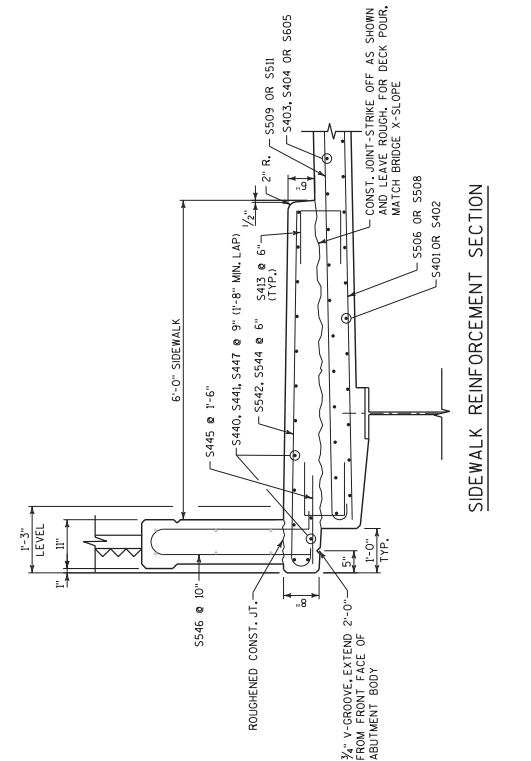
CROSS SECTION THRU DECK
(LOOKING NORTH)



SECTION S-S



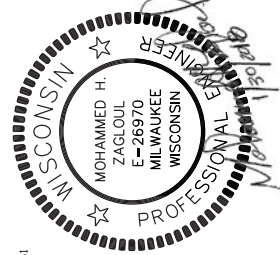
SIDEWALK REINFORCEMENT SECTION



NOTES

- FOR DECK REINFORCEMENT PLAN, SEE SHEET 21.
- FOR SIDEWALK & MEDIAN REINFORCEMENT DETAILS, SEE SHEET 23.
- FOR EXPANSION DIAPHRAGM REINFORCEMENT, SEE SHEET 24.
- FOR SUPERSTRUCTURE BILL OF BARS & HAUNCH REINFORCEMENT, SEE SHEET 25.
- FOR PARAPET REINFORCEMENT DETAILS, SEE SHEET 29.
- FOR LIGHT SUPPORT REINFORCEMENT, SEE SHEET 30.

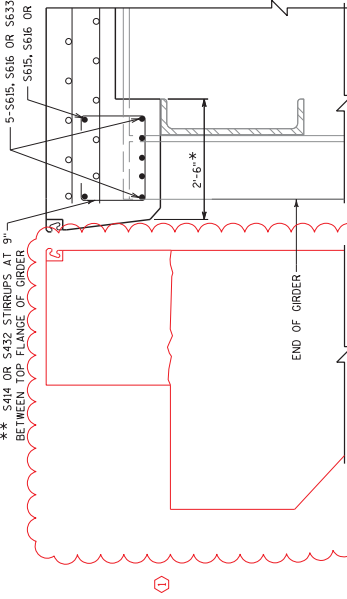
William C. Decker
02/10/18



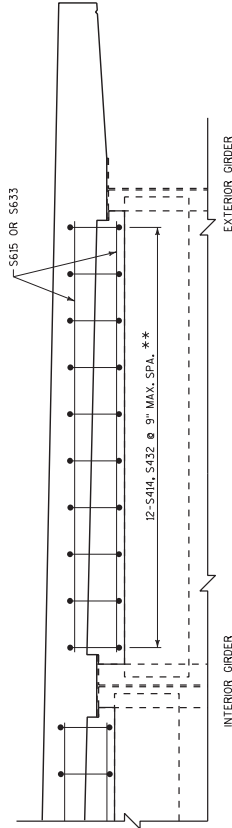
NO.	DATE	REVISION	BY
1	02/09/18	REVISED STAGE NUMBERING	MHZ
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-107			
SUPERSTRUCTURE CROSS SECTIONS		SHEET 22 OF 34	
268		PLOT SCALE : 1:4.66667	

MEDIAN REINFORCEMENT SECTION
(HAUNCH REINFORCEMENT NOT SHOWN FOR CLARITY)

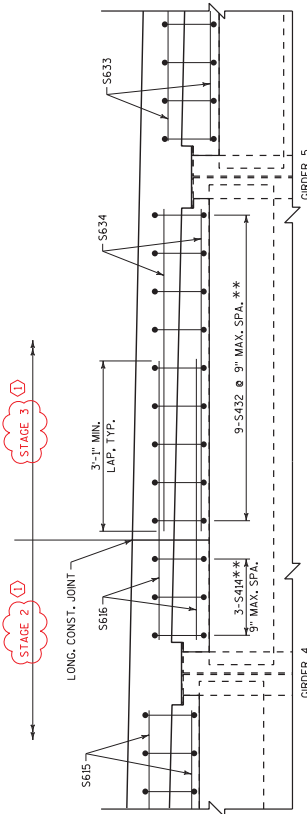
** S414 OR S432 STRIPS AT 9" BETWEEN TOP FLANGE OF GIRDER



SECTION THRU EXPANSION END



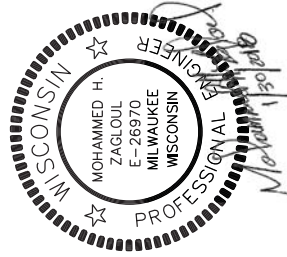
PART TRANSVERSE SECTION AT DIAPHRAGM EXPANSION END



PART TRANSVERSE SECTION DIAPHRAGM EXPANSION AT CONST. JOINT

Addendum No. 01
ID 2030-14-70
Revised Sheet 270
February 6, 2018

William C. Decker
02/01/18



LEGEND

* DIMENSION IS TAKEN NORMAL TO C. ABUTMENT
** DIMENSION IS TAKEN PARALLEL TO C. GIRDER

NO.	DATE	REVISED STAGE NO. & ABUT. BACKWALL	MHZ	BY
1	2/09/18			

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-107
DRAWN BY: AJA
CHECKED BY: MHZ

DIAPHRAGM REINFORCEMENT
SHEET 24 OF 34
DETAILS 270

NOTES

- FOR DECK REINFORCEMENT PLAN, SEE SHEET 21.
- FOR SECTION THRU DECK, SIDEWALK & MEDIAN, SEE SHEET 22.
- FOR SIDEWALK & MEDIAN REINFORCEMENT DETAILS, SEE SHEET 23.
- FOR SUPERSTRUCTURE BILL OF BARS & HAUNCH REINFORCEMENT, SEE SHEET 25.
- FOR PARAPET REINFORCEMENT DETAILS, SEE SHEET 29.
- FOR LIGHT SUPPORT REINFORCEMENT, SEE SHEET 30.

Addendum No. 01
 ID 2030-14-70
 Revised Sheet 271
 February 6, 2018

STATE PROJECT NUMBER
 2030-14-70

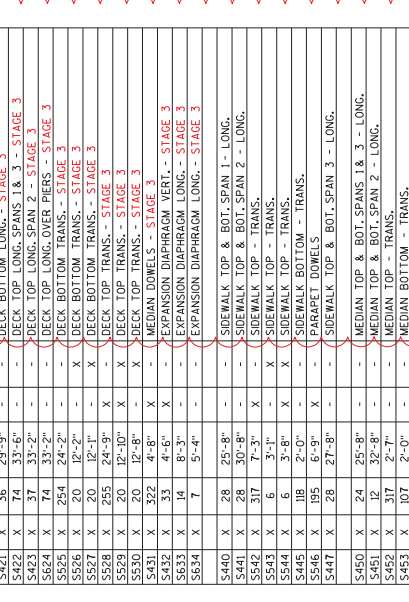
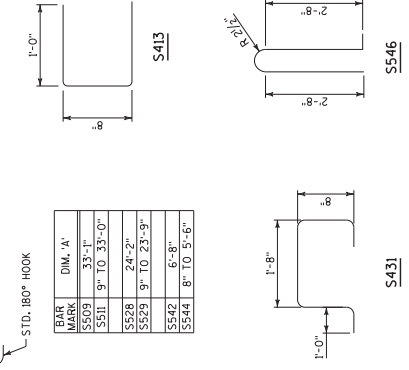
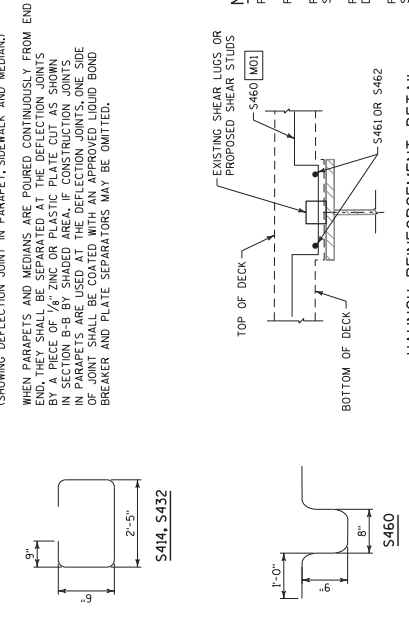
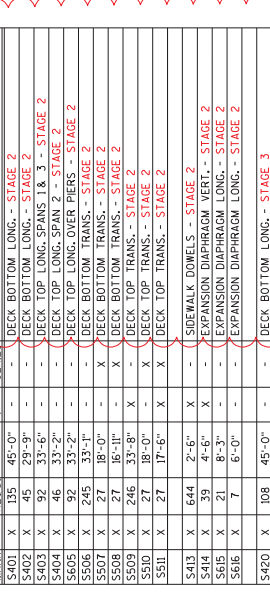
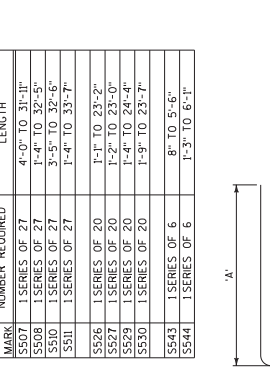
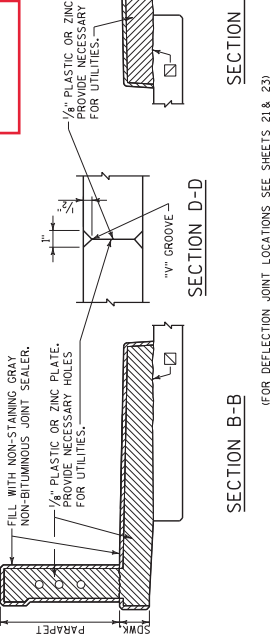
LEGEND
 [] CONST. JOINT-STRIKE OFF AS SHOWN AND LEAVE ROUGH FOR DECK POUR, MATCH BRIDGE X-SLOPE.
 [MO] FIELD ORIENTATE REINFORCEMENT IN CONFLICT WITH DECK SLAB TOP REINFORCEMENT MAT AS NEEDED.

REVISIONS
 NO. DATE REVISION BY
 17/05/18 REVISED STAGE NUMBERING MHZ
 STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
 STRUCTURE B-40-107
 EXISTING GIRDER DETAILS AND BILL OF BARS SHEET 25 OF 34
 271

BILL OF BARS

NOTE: BAR DIMENSIONS ARE OUT TO OUT OF BAR, THE FIRST OR BAR DIMENSIONS ARE OUT TO OUT OF A BAR-MARK SIGNIFIES THE BAR SIZE

BAR MARK	NO. REQ'D	LENGTH (FEET)	BAR SERIES	LOCATION
S401	X	135	45-0"	DECK BOTTOM LONG. - STAGE 2
S402	X	45	29-9"	DECK BOTTOM LONG. - STAGE 2
S403	X	92	33-6"	DECK TOP LONG. SPANS 1 & 3 - STAGE 2
S404	X	46	33-2"	DECK TOP LONG. SPAN 2 - STAGE 2
S405	X	92	33-2"	DECK TOP LONG. OVER PIERS - STAGE 2
S406	X	245	33-1"	DECK BOTTOM TRANS. - STAGE 2
S407	X	71	18-0"	DECK BOTTOM TRANS. - STAGE 2
S408	X	246	33-8"	DECK TOP TRANS. - STAGE 2
S409	X	27	18-0"	DECK TOP TRANS. - STAGE 2
S410	X	27	17-6"	DECK TOP TRANS. - STAGE 2
S413	X	644	2'-6"	SIDEWALK DOWELS - STAGE 2
S414	X	39	4'-6"	EXPANSION DIAPHRAGM VERT. - STAGE 2
S415	X	21	8'-3"	EXPANSION DIAPHRAGM LONG. - STAGE 2
S416	X	7	6'-0"	EXPANSION DIAPHRAGM LONG. - STAGE 2
S420	X	108	45-0"	DECK BOTTOM LONG. - STAGE 3
S421	X	36	29-9"	DECK TOP LONG. - STAGE 3
S422	X	74	33-6"	DECK TOP LONG. SPANS 1 & 3 - STAGE 3
S423	X	37	33-2"	DECK TOP LONG. SPAN 2 - STAGE 3
S424	X	74	33-2"	DECK TOP LONG. OVER PIERS - STAGE 3
S425	X	254	24-2"	DECK BOTTOM TRANS. - STAGE 3
S426	X	20	12'-2"	DECK BOTTOM TRANS. - STAGE 3
S427	X	20	12'-2"	DECK BOTTOM TRANS. - STAGE 3
S428	X	255	24'-9"	DECK TOP TRANS. - STAGE 3
S429	X	20	12'-10"	DECK TOP TRANS. - STAGE 3
S430	X	20	12'-8"	DECK TOP TRANS. - STAGE 3
S431	X	322	4'-8"	MEDIAN DOWELS - STAGE 3
S432	X	33	4'-6"	EXPANSION DIAPHRAGM VERT. - STAGE 3
S433	X	14	8'-3"	EXPANSION DIAPHRAGM LONG. - STAGE 3
S434	X	7	5'-4"	EXPANSION DIAPHRAGM LONG. - STAGE 3
S440	X	28	25'-8"	SIDEWALK TOP & BOT. SPAN 1 - LONG.
S441	X	28	30'-8"	SIDEWALK TOP & BOT. SPAN 2 - LONG.
S442	X	317	3'-3"	SIDEWALK TOP - TRANS.
S443	X	6	3'-8"	SIDEWALK TOP - TRANS.
S444	X	6	3'-8"	SIDEWALK BOTTOM - TRANS.
S445	X	195	6'-9"	SIDEWALK TOP & BOT. SPANS 1 & 2 - LONG.
S446	X	195	6'-9"	SIDEWALK TOP & BOT. SPANS 1 & 2 - LONG.
S447	X	28	27'-8"	SIDEWALK TOP & BOT. SPAN 3 - LONG.
S450	X	24	25'-8"	MEDIAN TOP & BOT. SPANS 1 & 3 - LONG.
S451	X	12	32'-8"	MEDIAN TOP & BOT. SPAN 2 - LONG.
S452	X	317	2'-7"	MEDIAN TOP - TRANS.
S453	X	107	2'-0"	MEDIAN BOTTOM - TRANS.
S460	X	745	3'-2"	HAUNCH - VERT.
S461	X	4	37'-4"	HAUNCH SPANS 1 & 3 - LONG.
S462	X	2	44'-8"	HAUNCH SPAN 2 - LONG.
S470	X	12	9'-0"	BETWEEN GIRDERS AT EXPANSION JOINTS - STAGE 2
S471	X	4	5'-0"	BETWEEN GIRDERS AT EXPANSION JOINTS - STAGE 2
S472	X	8	9'-0"	BETWEEN GIRDERS AT EXPANSION JOINTS - STAGE 3
S473	X	4	5'-10"	BETWEEN GIRDERS AT EXPANSION JOINTS - STAGE 3



NOTES

FOR SHEAR CONNECTOR DETAILS, SEE SHEET 18.
 FOR DECK REINFORCEMENT PLAN, SEE SHEET 21.
 FOR SECTION THRU DECK, SIDEWALK & MEDIAN, SEE SHEET 22.
 FOR SIDEWALK & MEDIAN REINFORCEMENT DETAILS, SEE SHEET 23.
 FOR EXPANSION DIAPHRAGM REINFORCEMENT, SEE SHEET 24.
 FOR PARAPET REINFORCEMENT DETAILS, SEE SHEET 29.
 FOR LIGHT SUPPORT REINFORCEMENT, SEE SHEET 30.

LEGEND

[] CONST. JOINT-STRIKE OFF AS SHOWN AND LEAVE ROUGH FOR DECK POUR, MATCH BRIDGE X-SLOPE.
 [MO] FIELD ORIENTATE REINFORCEMENT IN CONFLICT WITH DECK SLAB TOP REINFORCEMENT MAT AS NEEDED.

BAR SERIES TABLE

BENDING DIAGRAMS

EXISTING GIRDER ELEVATION

PLOT NAME : #FILES
 PLOT BY : rmyaskovsky
 PLOT DATE : 1.30/2018
 PLOT SCALE : 1:12.66667

LEGEND

- ① NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS. SET JOINT OPENING AT 1/4" JOINT OPENING GIVEN NORMAL TO JOINT.
- ② STUDS 3/8" X 6 3/4" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- ③ 1/2" THICK ANCHOR PLATE WITH 3/8" ROD OR ALTERNATE STRIP SEAL ANCHOR. WELD ROD TO ANCHOR PLATE. WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
- ④ 3/8" THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
- ⑤ 3/4" THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
- ⑥ FABRICATE SUPPORT FROM 3" X 1/2" BAR AS SHOWN OR EQUIVALENT. ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1/2" HOLE FOR NO. 3 & 1" HOLE FOR NO. 4.
- ⑦ 3/8" X 1/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/4" BELOW PLATE SURFACE.
- ⑧ 3/4" X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- ⑨ 3/4" X 2 1/4" GALVANIZED THREADED COUPLER.
- ⑩ SIDEWALK AND MEDIAN COVER PLATE 3/8" X 2'-0" X LIMITS SHOWN. BEND DOWN FACE OF SIDEWALK AND MEDIAN WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.
- ⑪ 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

REFER TO SHEET 28.

NOTES

ONE FIELD SPlice PERMITTED IN STEEL EXTRUSIONS. UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPlicing PERMITTED IN NEOPRENE STRIP SEAL AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

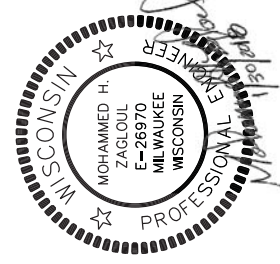
FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN THROUGHOUT FABRICATION AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP-6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO EXTERIOR SURFACES. THE FABRICATOR SHALL BE RESPONSIBLE FOR MAINTAINING THE GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

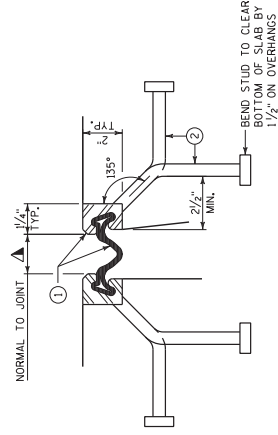
ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A53 CLASS C AND D.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-40-107".

① 12/05/18	REVISED ABUTMENT BACKWALL	MHZ
NO. DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
STRUCTURE B-40-107		
IRVN	AJA	PLANS CDD
MHZ		
SHEET 27 OF 34		
EXPANSION JOINT DETAILS (1 OF 2)		
273		

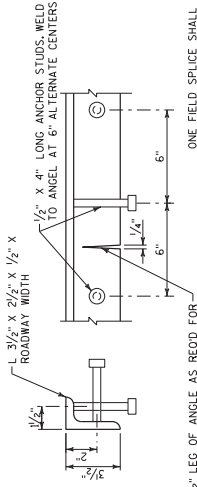


PLOT SCALE: 1:12



SECTION THRU JOINT

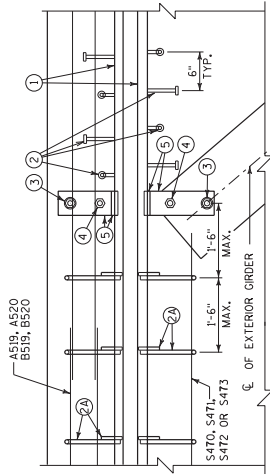
EXTERIOR GIRDER TO EDGE OF SLAB & AT PARAPETS, MEDIANS & SIDEWALKS



FIELD CUT 3/2" LEG OF ANGLE AS BECD FOR BENDING. ANGLE TO CONFORM TO ROADWAY CROWN. ONE CUT SHALL BE AT GROWN.

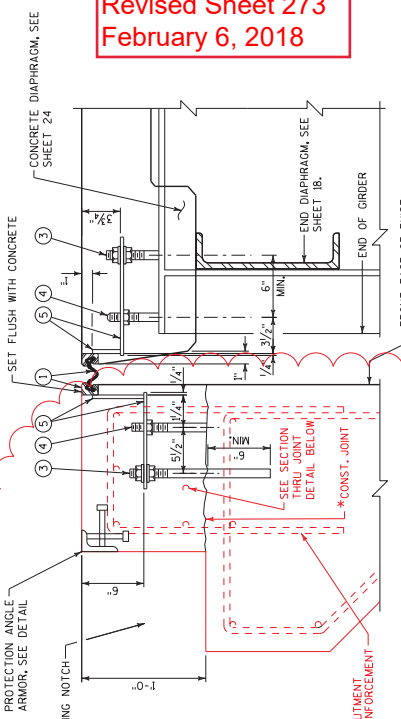
PROTECTION ANGLE ARMOR

SANDBLAST PROTECTION ANGLE AFTER FABRICATION PER NOTES. AFTER BLAST CLEANING, THE PROTECTION ANGLE SHALL BE HOT DIPPED GALVANIZED.



PART PLAN

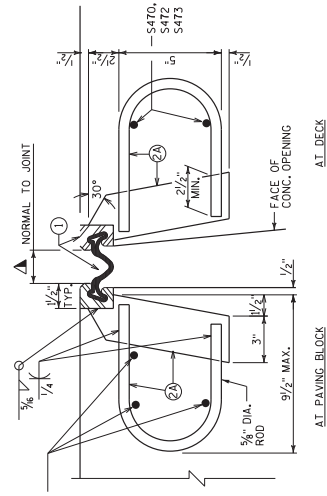
Addendum No. 01
ID 2030-14-70
Revised Sheet 273
February 6, 2018



SECTION THRU JOINT AT STEEL GIRDER

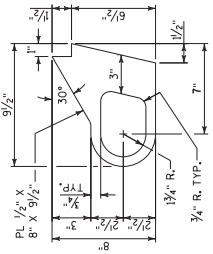
NORMAL TO SUBSTRUCTURE

* FOUR CONCRETE ABOVE SUPERSTRUCTURE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.



SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



ALTERNATE STRIP SEAL ANCHOR

William C. DeLuca

02/01/18

PLOT DATE: 1-30-2018

PLOT BY: rmyakovsky

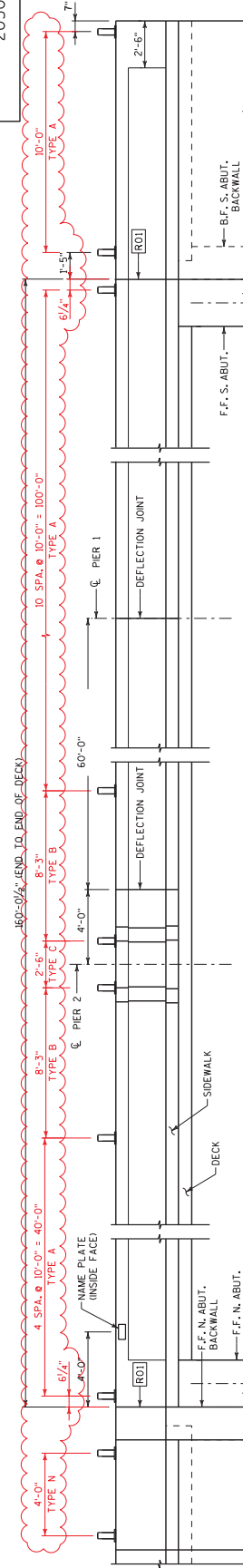
PLOT NAME: #F18S

STATE PROJECT NUMBER

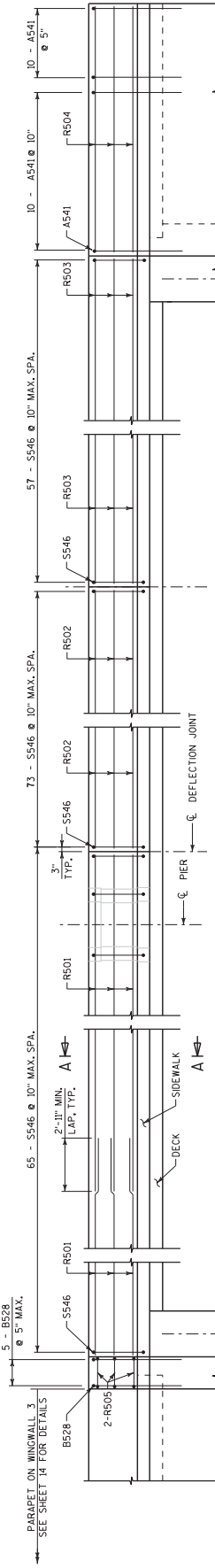
2030-14-70

Addendum No. 01
ID 2030-14-70
Revised Sheet 275
February 6, 2018

William C. Decker
02/01/18



OUTSIDE ELEVATION OF WEST PARAPET
DIMENSIONS MEASURED ALONG OUTSIDE EDGE OF DECK/OUTSIDE FACE OF PARAPET
(LOOKING EAST)

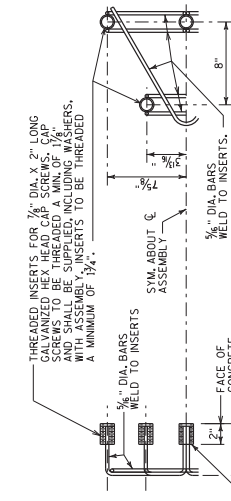


OUTSIDE ELEVATION OF WEST PARAPET SHOWING REINFORCEMENT
DIMENSIONS MEASURED ALONG OUTSIDE EDGE OF DECK/OUTSIDE FACE OF PARAPET
(LOOKING EAST)

BILL OF BARS

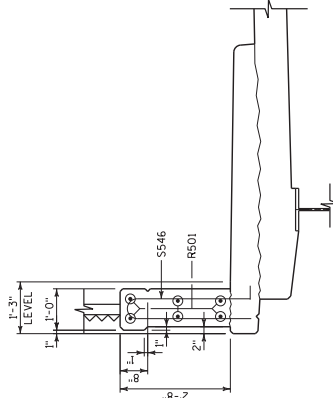
BAR MARK	NO. CONT.	NO. RECD.	LENGTH	BAR SERIES	LOCATION
RS01	X	12	27'-3"	-	PARAPET - LONG OVER DECK
RS02	X	12	31'-3"	-	PARAPET - LONG OVER DECK
RS03	X	12	23'-2"	-	PARAPET - LONG OVER DECK
RS04	X	6	2'-4"	-	PARAPET - LONG OVER N. ABUT.
RS05	X	6	2'-4"	-	PARAPET - LONG OVER N. ABUT.

NOTE:
BAR DIMENSIONS ARE OUT TO OUT OF BAR, THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C. ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLY FOR STEEL PLATE BEAM GUARD", EACH.



SECTION A-A

LEGEND

RO1 SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2\"/>

NO.	DATE	REVISED FENCE POST SPACING	MHZ	BY
1	2/05/18			

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

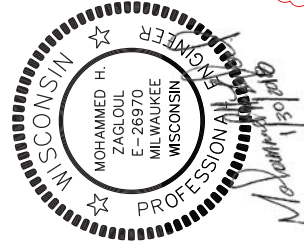
STRUCTURE B-40-107

VERTICAL FACE PARAPET A

REVISION MM

SHEET 29 OF 34

275



NOTES

FOR LOCATION OF "ANCHOR ASSEMBLY" FOR STEEL PLATE BEAM GUARD, SEE GENERAL PLAN & ELEVATION SHEET.

FOR LIGHT SUPPORT DETAILS, SEE SHEET 30.

FOR ANCHOR DETAILS, SEE SHEETS 31A-32.
FOR DECORATIVE FENCE BRIDGE DETAILS, SEE SHEETS 33, 33A & 33B.

NOTES

THE BID ITEM SHALL BE "FENCE DECORATIVE BRIDGE" WHICH SHALL INCLUDE ALL ITEMS SHOWN, FOR ELEVATIONS OF FENCE PANELS, SEE SHEET 29.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

STRUCTURAL TUBING SHALL BE ASTM A500, GRADE B, ROLLED SQUARES, PLATES, BARS AND SHIMS SHALL BE ASTM A709, GRADE 36.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF JOINTS WITH POLYURETHANE JOINT SEALERS WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

THE POSTS AND PLATES SHALL BE ERECTED PLUMB. CUT BOTTOM OF POST TO MAKE POST VERTICAL.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE ASTM A307 AND SHALL BE GALVANIZED.

STANDARD WASHERS SHALL BE USED TO SHIM BASE PLATES IF REQUIRED. ALL WASHERS SHALL BE GALVANIZED.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

AFTER FABRICATION AND PRIOR TO BOLTING AND ASSEMBLING THE FENCE COMPONENTS, STEEL SHALL BE BLAST CLEANED TO SA 2.5. REPAIR ZINC COATING DAMAGED DURING FENCE ASSEMBLY AS SPECIFIED IN 635.3.5.

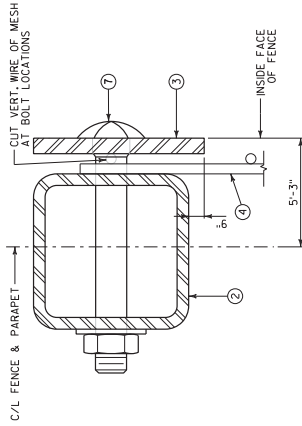
PRIOR TO FINAL ASSEMBLY OF THE FENCE PANELS, PAINT THE GALVANIZED FENCE COMPONENTS WITH A TWO COAT SYSTEM SPECIFIED BY THE SPECIAL PROVISIONS. THE FINISH COLOR SHALL BE FEDERAL COLOR NO. 27038 BLACK.

ALL WELDS SHALL BE PREQUALIFIED ACCORDING TO THE STRUCTURAL WELDING CODE STEEL (AWS D11). THE MINIMUM SIZE OF FILLET WELDS IS $\frac{3}{8}$ ".

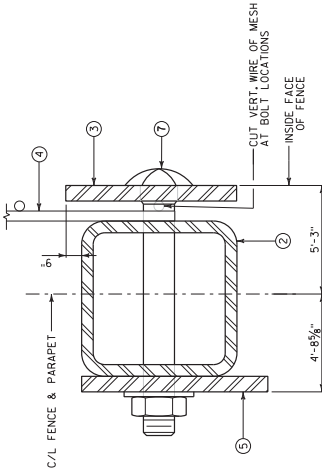
COVER THE 2" x 2" STEEL MESH WITH A COLORED POLYMER COATING. COAT ALL OTHER FENCING COMPONENTS WITH AN EPOXY PRIMER. AFTER PANEL ERECTION, SEE SPECIAL PROVISIONS FOR REQUIREMENTS.

LEGEND

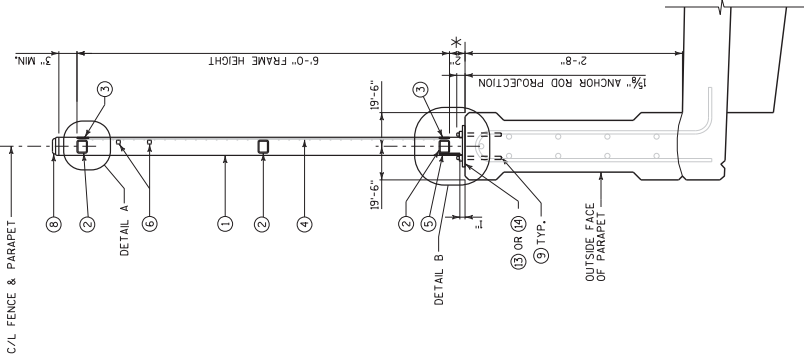
- 1 HSS $3\frac{1}{2}$ " x $3\frac{1}{2}$ " x $\frac{3}{8}$ " DIA. VENT HOLES, TOP & BOTTOM, ON OUTSIDE FACE, RESIZE AS NECESSARY FOR GALVANIZING PROCESS. WELD TO NO. 8 & BASE PLATE, TYP.
 - 2 HSS $2\frac{1}{2}$ " x $2\frac{1}{2}$ " x $\frac{3}{8}$ " DIA. WELD TO NO. 6.
 - 3 PL $3\frac{1}{2}$ " x $1\frac{1}{2}$ " WELDED FRAME, BOLT TO NO. 2 WITH NO. 7 AFTER PAINTING.
 - 4 STEEL MESH 2" x 2" x 0.0625 (18 GA.) PLACE VERTICAL WIRES ON INSIDE FACE OF PARAPET.
 - 5 $1\frac{1}{4}$ " WIDTH WIRES; PROVIDE SHORT SLOTTED VERT. HOLES FOR NO. 1.
 - 6 $\frac{3}{4}$ " x $\frac{3}{4}$ " BAR, WELD TO NO. 2 & 6.
 - 7 $\frac{1}{2}$ " DIA. CARRIAGE BOLT, WASHER & NUT, PROVIDE $\frac{3}{8}$ " x $\frac{3}{8}$ " SQUARE HOLE IN NO. 3 & NO. 2 WHERE CONNECTED TO DECORATIVE INSERT PLATE FOR SQUARE PORTION OF THE BOLT HEAD.
 - 8 $3\frac{1}{2}$ " x $3\frac{1}{2}$ " SQUARE END CAP, WELD TO NO. 1.
 - 9 $\frac{5}{8}$ " DIA. CONCRETE MASONRY ANCHOR TYPE S EPOXY, $\frac{7}{8}$ " MINIMUM EMBEDMENT.
 - 10 PL $\frac{3}{4}$ " x $4\frac{1}{2}$ " x 6" CONNECTION WITH 2" DIA. HOLE FOR NO. 7. USE NO. 11 TO COVER 2" DIA. ADJUSTMENT HOLES.
 - 11 PL $\frac{3}{8}$ " x $2\frac{1}{2}$ " x $4\frac{1}{2}$ ".
 - 12 PL WASHER $1\frac{1}{4}$ " x $3\frac{1}{2}$ " x $3\frac{1}{2}$ ".
 - 13 PL $\frac{1}{2}$ " x 8" x 10" BASE PLATE, WELD TO NO. 1.
 - 14 PL $\frac{1}{2}$ " x 8" x 1'-0" BASE PLATE, WELD TO NO. 1.
 - 15 $\frac{1}{2}$ " DIA. BOLT, WASHER & NUT, TACK WELD NUT TO NO. 2.
- * THE DIMENSION BETWEEN THE BOTTOM OF THE WELDED FRAME AND THE TOP OF THE PARAPET VARIES DUE TO THE VERTICAL PROFILE OF THE STRUCTURE. SET THIS DIMENSION TO A 2" ADJACENT TO THE POST WHERE NO. 5 HAS THE SMALLEST VERTICAL DIMENSION.



DETAIL A



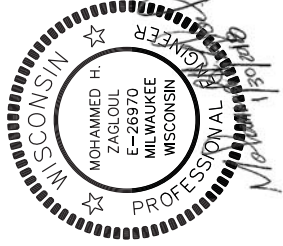
DETAIL B



SECTION THRU PARAPET AT BRIDGE

William C. Decker

02/01/18



Addendum No. 01
ID 2030-14-70
Revised Sheet 279
February 6, 2018

NO. DATE	NEW SHEET	REVISION	BY
02/01/18			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-107			
DRAWN		CHECKED	
BY		BY	
A.J.A.		M.H.Z.	
SHEET 33 OF 34			279

PLOT SCALE : 1:16

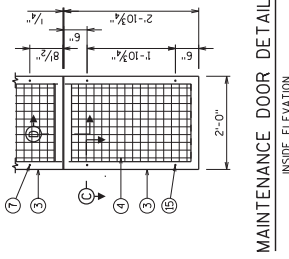
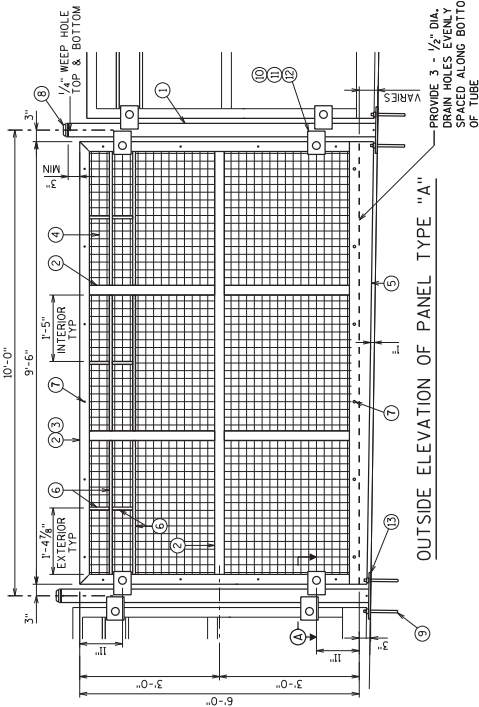
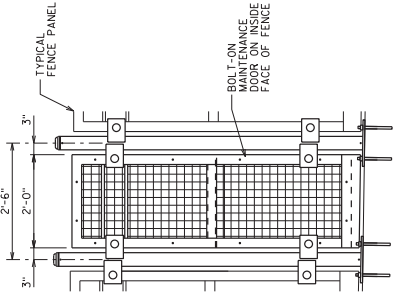
PLOT NAME : #FILES

PLOT BY : rmydskovsky

PLOT DATE : 1.30/2018

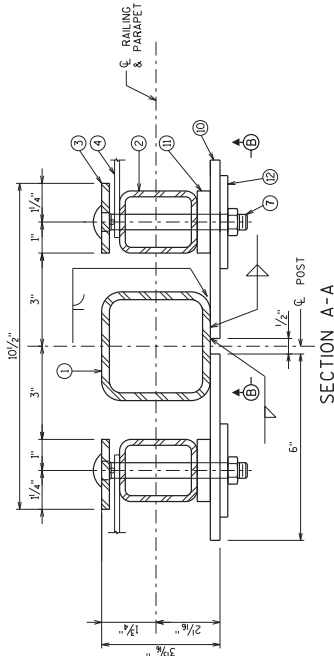
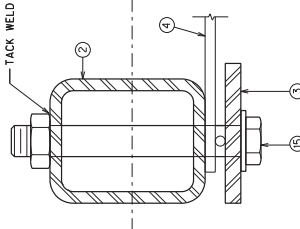
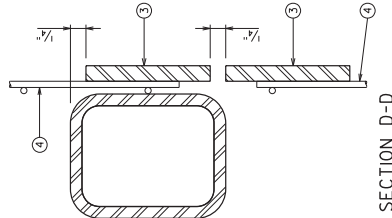
FILE NAME : S:\DOT\DOT_SE\170358_S1M_100_HAST_Br_cages\Structures\20170913\B-40-107\DO\cads\B107_080705-df.dgn

**Addendum No. 01
ID 2030-14-70
Added Sheet 279A
February 6, 2018**



OUTSIDE ELEVATION OF
PANEL TYPE "C"

OUTSIDE ELEVATION OF PANEL TYPE "A"



SECTION A-A

SECTION C-C

SECTION D-D

NOTES
FOR NOTES AND LEGEND, SEE SHEET 33.
TYPICAL MEMBER SIZES, WELDING AND BOLTING
DETAILS, AND MATERIALS ARE SHOWN IN
DECORATIVE FENCE BRIDGE PANEL ON SHEET 33.

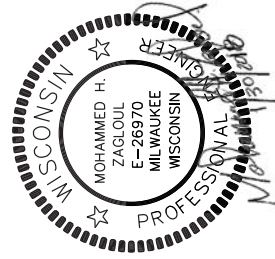
NO.	DATE	BY	REVISION	NEW SHEET	MMHZ
1	7/05/18				

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

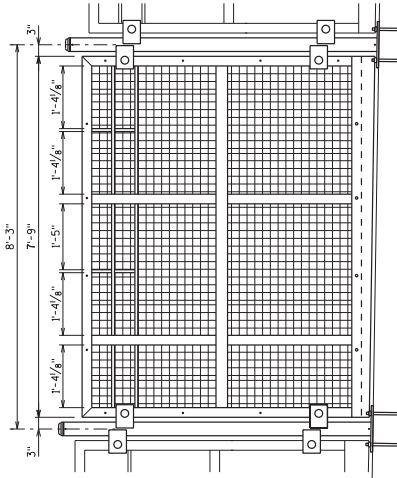
STRUCTURE B-40-107
MM
LDCS
MMHZ

SHEET 33A OF 34
FENCE DECORATIVE BRIDGE (2 OF 3)

279A



OUTSIDE ELEVATION OF PANEL TYPE "B"



William C. Decher
02/01/18

PLOT DATE : 1.30/2018

PLOT BY : rmyzskovsky

PLOT NAME : #FILES

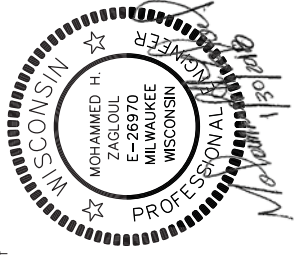
PLOT SCALE : 1:12

STATE PROJECT NUMBER

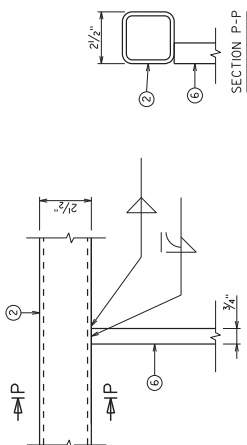
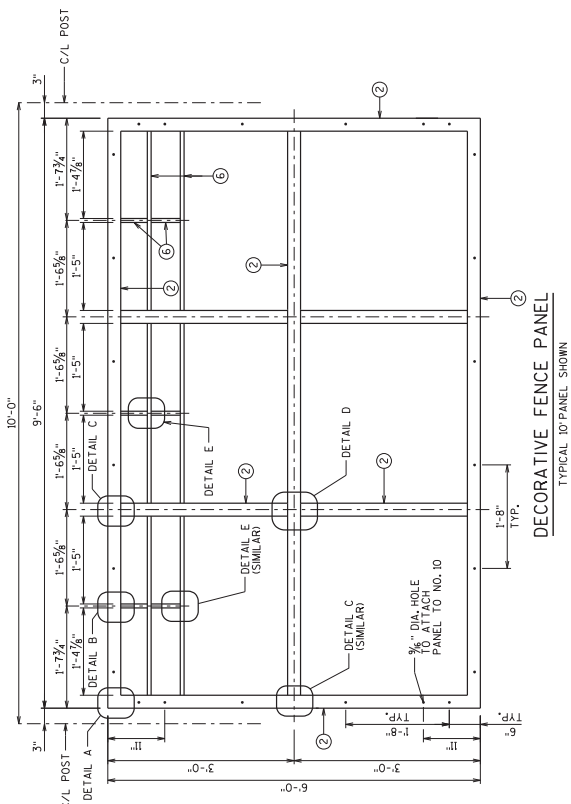
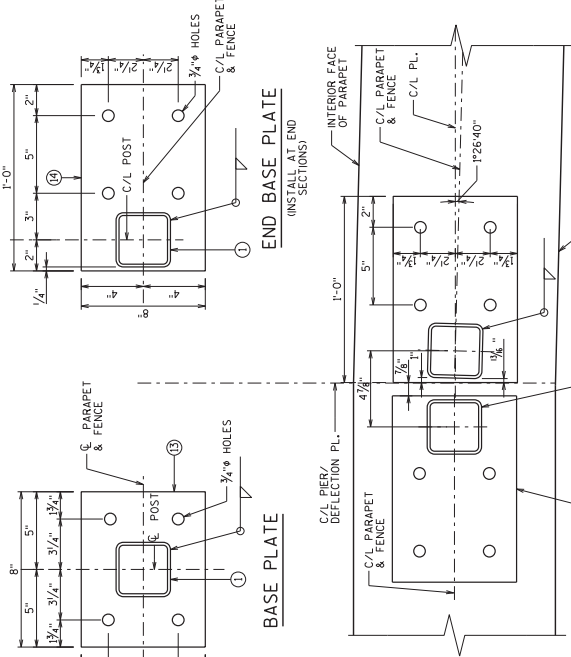
2030-14-70

NOTES

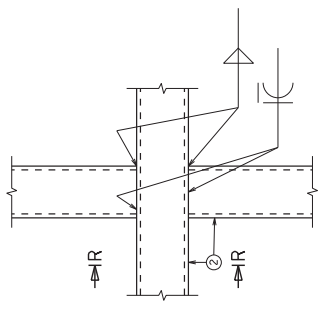
FOR NOTES AND LEGEND, SEE SHEET 33.
 DETAILS SHOWN ARE TYPICAL FOR ALL FENCE PANELS.



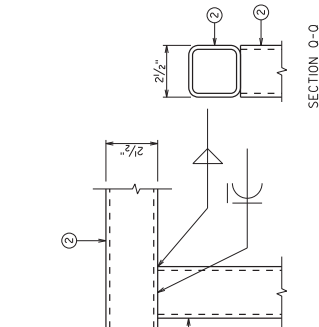
William C. Dehn
 02/10/18



SECTION P-P



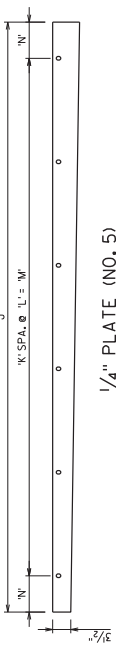
SECTION R-R



SECTION 0-0



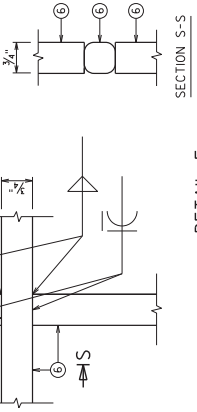
SECTION S-S



1/4" PLATE (NO. 5)

PANEL TYPE	J	NO.	SPA. L.	SPA. W.	DIM L.	DIM W.
A	9'-6"	5	1'-8"	8'-4"	7'	7'
B	7'-9"	5	1'-4"	6'-8"	6 1/2'	6 1/2'
C	2'-0"	1	10'	10'	10'	7'

Addendum No. 01
 ID 2030-14-70
 Added Sheet 279B
 February 6, 2018



SECTION S-S

DETAIL D

DETAIL E

DETAIL C

DETAIL A

PLOT SCALE : 1:12

PLOT BY : rmydskovsky

PLOT DATE : 1.30.2018

FILE NAME : S:\DOT\DOT_SE\170358_S1H_100_HAST_Br_cages\Structures\20170913\B-40-107\DWG\cs\B107_080707.dwg

NOTES

THE BID ITEM SHALL BE "FENCE DECORATIVE WING" WHICH SHALL INCLUDE ALL ITEMS SHOWN, FOR ELEVATIONS OF FENCE PANELS, SEE SHEET 13.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

STRUCTURAL TUBING SHALL BE ASTM A500, GRADE B, ROLLED SQUARES, PLATES, BARS AND SHIMS SHALL BE ASTM A709, GRADE 50.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF JOINTS WITH POLYURETHANE JOINT SEALER, NON-BITUMINOUS JOINT SEALER.

THE POSTS AND PLATES SHALL BE ERECTED PLUMB. CUT BOTTOM OF POST TO MAKE POST VERTICAL.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE ASTM A307 AND SHALL BE GALVANIZED.

STANDARD WASHERS SHALL BE USED TO SHIM BASE PLATES IF REQUIRED. ALL WASHERS SHALL BE GALVANIZED.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

AFTER FABRICATION AND PRIOR TO BOLTING AND ASSEMBLING THE FENCE COMPONENTS, STEEL SHALL BE BLAST CLEANED TO SA 2.5. REPAIR ZINC COATING DAMAGED DURING FENCE ASSEMBLY AS SPECIFIED IN 635.3.5.

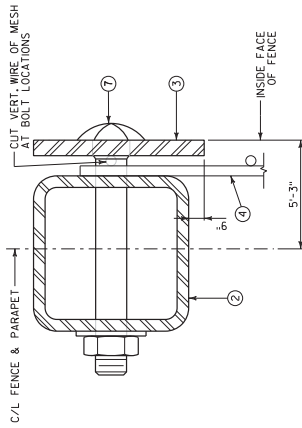
PRIOR TO FINAL ASSEMBLY OF THE FENCE PANELS, PAINT THE GALVANIZED FENCE COMPONENTS WITH A TWO COAT SYSTEM PER THE SPECIAL PROVISIONS. THE FINISH COLOR SHALL BE FEDERAL COLOR NO. 27038 BLACK.

ALL WELDS SHALL BE PREQUALIFIED ACCORDING TO THE STRUCTURAL WELDING CODE STEEL (AWS D11). THE MINIMUM SIZE OF FILLET WELDS IS $\frac{3}{8}$ ".

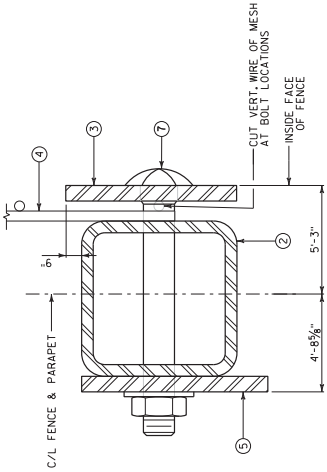
COVER THE 2" x 2" STEEL MESH WITH A COLORED POLYMER COATING. COAT ALL OTHER FENCING COMPONENTS WITH AN EPOXY POLYURETHANE COATING. AFTER PANEL ERECTION, SEE SPECIAL PROVISIONS FOR REQUIREMENTS.

LEGEND

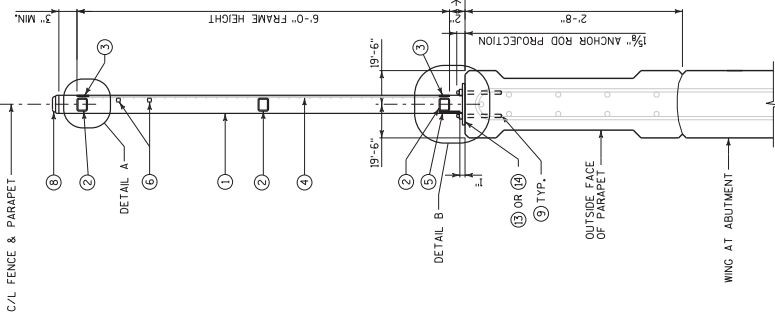
- ① HSS $3\frac{1}{2}$ " x $3\frac{1}{2}$ " x $\frac{3}{8}$ " DIA. VERT HOLES, TOP & BOTTOM, ON OUTSIDE FACE, RESIZE AS NECESSARY FOR GALVANIZING PROCESS. WELD TO NO. 8 & BASE PLATE, TYP.
 - ② HSS $2\frac{1}{2}$ " x $2\frac{1}{2}$ " x $\frac{3}{8}$ " WELD TO NO. 6.
 - ③ PL $3\frac{1}{2}$ " x $1\frac{1}{2}$ " WELDED FRAME, BOLT TO NO. 2 WITH NO. 7 AFTER PAINTING.
 - ④ STEEL MESH 2" x 2" x 0.062 (8 GA.) PLACE VERTICAL WIRES ON INSIDE FACE OF PARAPET.
 - ⑤ $1\frac{1}{4}$ " WIDTH WIRES, PROVIDE SHORT SLOTTED VERT. HOLES FOR NO. 1.
 - ⑥ $\frac{3}{4}$ " x $\frac{3}{4}$ " BAR, WELD TO NO. 2 & 6.
 - ⑦ $\frac{1}{2}$ " DIA. CARRIAGE BOLT, WASHER & NUT, PROVIDE $\frac{3}{8}$ " x $\frac{3}{8}$ " SQUARE HOLE IN NO. 3 & NO. 2 WHERE CONNECTED TO DECORATIVE INSERT PLATE FOR SQUARE PORTION OF THE BOLT HEAD.
 - ⑧ $3\frac{1}{2}$ " x $3\frac{1}{2}$ " SQUARE END CAP, WELD TO NO. 1.
 - ⑨ $\frac{3}{4}$ " DIA. CONCRETE MASONRY ANCHOR TYPE S EPOXY, $\frac{3}{8}$ " MINIMUM EMBEDMENT.
 - ⑩ PL $\frac{3}{4}$ " x $4\frac{1}{2}$ " x 6" CONNECTION WITH 2" DIA. HOLE FOR NO. 7. USE NO. 11 TO COVER 2" DIA. ADJUSTMENT HOLES.
 - ⑪ PL $\frac{3}{8}$ " x $2\frac{1}{2}$ " x $4\frac{1}{2}$ ".
 - ⑫ PL WASHER $1\frac{1}{4}$ " x $3\frac{1}{2}$ " x $3\frac{1}{2}$ ".
 - ⑬ PL $\frac{1}{2}$ " x 8" x 10" BASE PLATE, WELD TO NO. 1.
 - ⑭ PL $\frac{1}{2}$ " x 8" x 1'-0" BASE PLATE, WELD TO NO. 1.
 - ⑮ $\frac{1}{2}$ " DIA. BOLT, WASHER & NUT, TACK WELD NUT TO NO. 2.
- * THE DIMENSION BETWEEN THE BOTTOM OF THE WELDED FRAME AND THE TOP OF THE PARAPET VARIES DUE TO SOA 2" ADJACENT TO THE POST WHERE NO. 5 HAS THE SMALLEST VERTICAL DIMENSION.



DETAIL A



DETAIL B

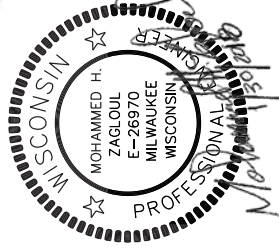


SECTION THRU PARAPET AT WING

Addendum No. 01
ID 2030-14-70
Added Sheet 279C
February 6, 2018

William C. Decker

02/01/18



NO.	DATE	NEW SHEET	REVISION	BY	MHZ
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION					
STRUCTURE B-40-107					
SHEET 33C OF 34					
FENCE DECORATIVE WING (1 OF 3)					
279C					

PLOT SCALE : 1:16

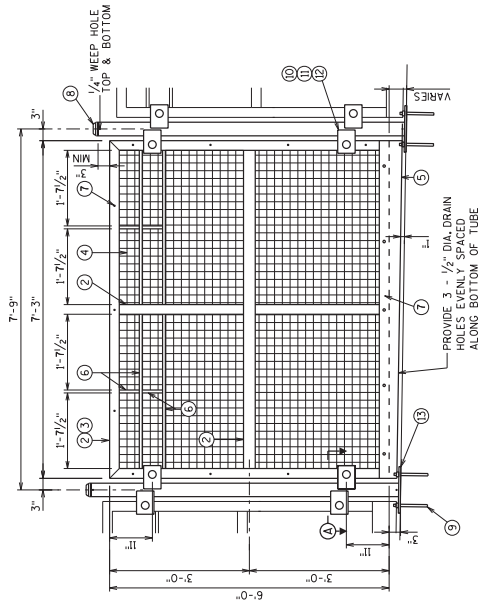
PLOT NAME : #FLES

PLOT BY : rmyaskovsky

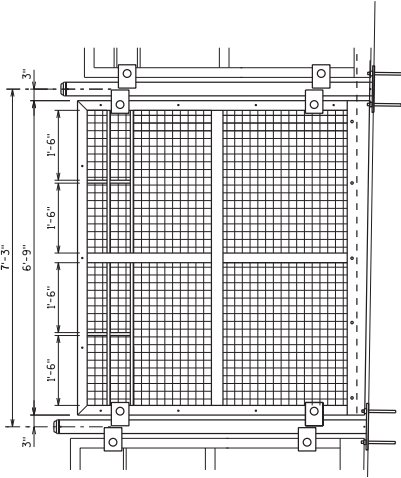
PLOT DATE : 1.30.2018

FILE NAME : S:\DOT\DOT_SE\170358_S1M_100_HAST_Br_cages\Structures\20170913\B-40-107\DWG\cgs\B107_080708_of.dgn

STATE PROJECT NUMBER
2030-14-70

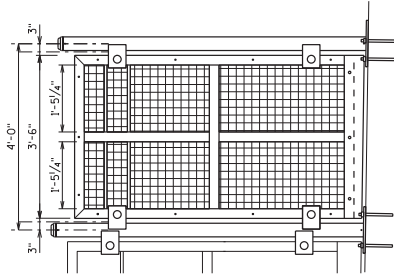


OUTSIDE ELEVATION OF PANEL TYPE "L"

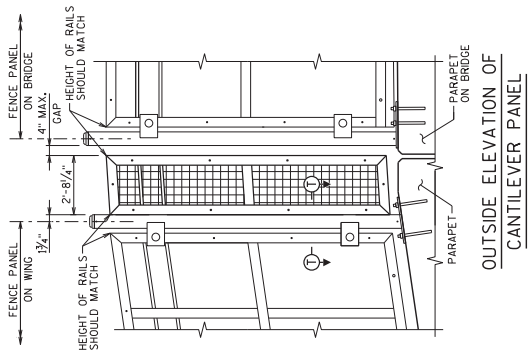


OUTSIDE ELEVATION OF PANEL TYPE "M"

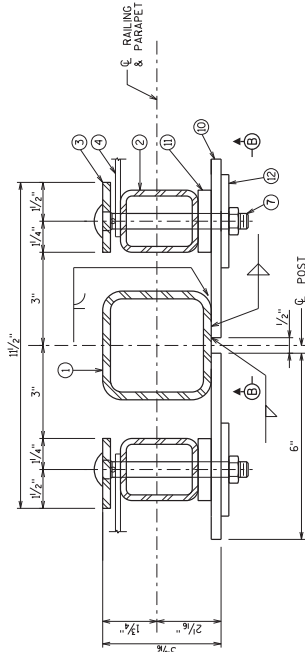
Addendum No. 01
ID 2030-14-70
Added Sheet 279D
February 6, 2018



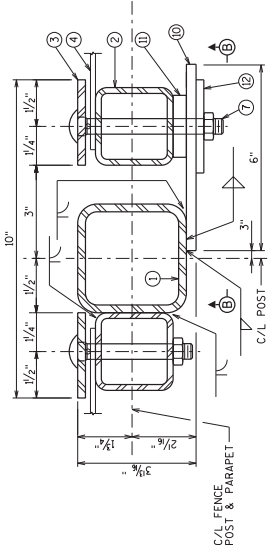
OUTSIDE ELEVATION OF PANEL TYPE "N"



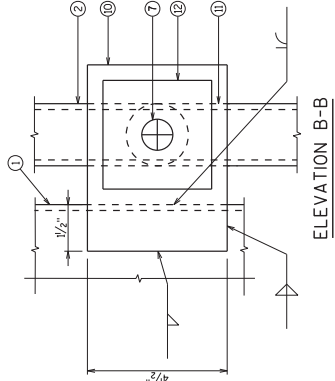
OUTSIDE ELEVATION OF CANTILEVER PANEL



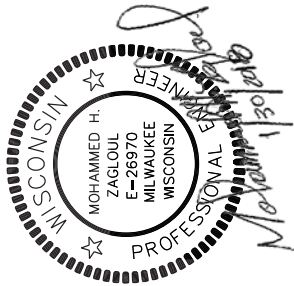
SECTION A-A



SECTION T-T



ELEVATION B-B



William C. Dehn
02/01/18

NOTES

FOR NOTES AND LEGEND, SEE SHEET 33C.
TYPICAL MEMBER SIZES, WELDING AND BOLTING
DETAILS, AND MATERIALS ARE SHOWN IN
DECORATIVE FENCE BRIDGE PANEL ON SHEET 33C.

NO.	DATE	BY
1	2/05/18	MHZ
NEW SHEET		
REVISION		
STATE OF WISCONSIN		
DEPARTMENT OF TRANSPORTATION		
STRUCTURE B-40-107		
DRWN	MM	MHZ
CHECKED		
SHEET 330 OF 34		
FENCE DECORATIVE WING (2 OF 3)		
279D		

PLOT SCALE : 1:12

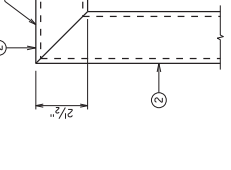
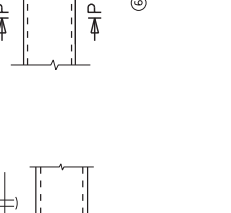
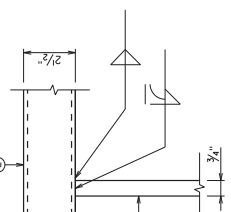
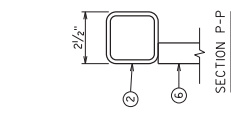
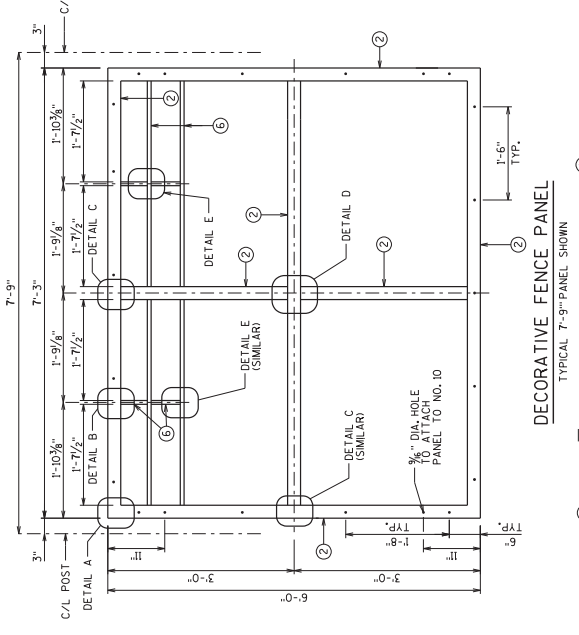
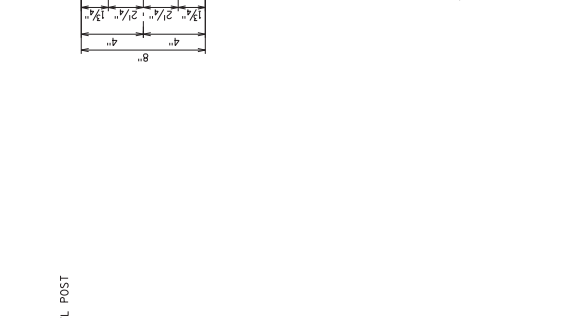
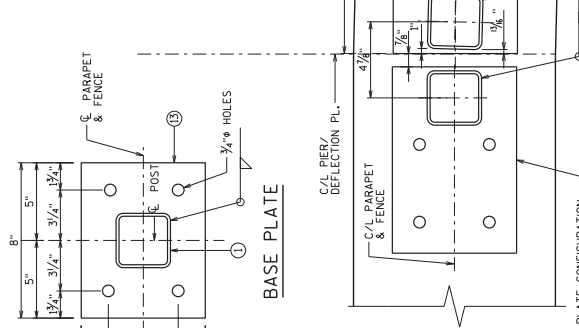
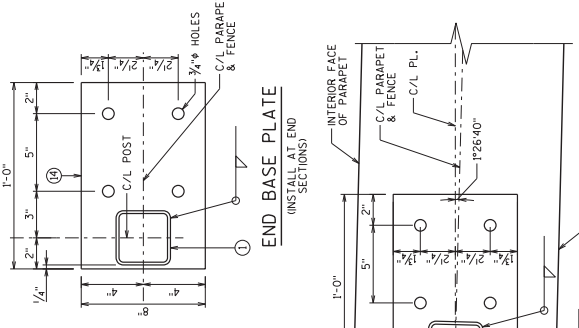
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PLOT BY : rmyoskovsky

PLOT DATE : 1.30.2018

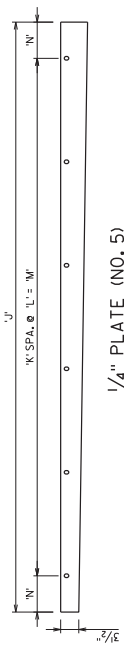
STATE PROJECT NUMBER
2030-14-70

NOTES
FOR NOTES AND LEGEND, SEE SHEET 33C.
DETAILS SHOWN ARE TYPICAL FOR ALL FENCE PANELS.



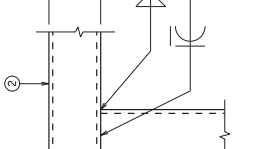
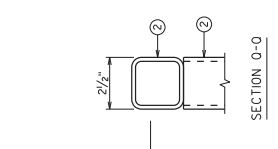
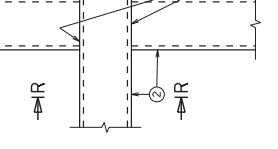
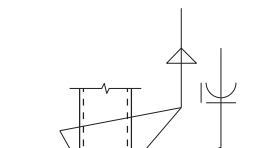
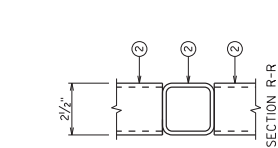
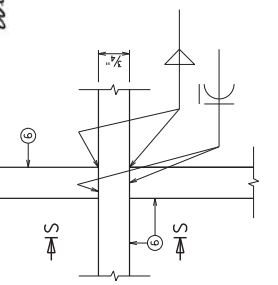
PANEL TYPE	J	SPA	NO.	DIM
K	4	1'-6"	6'-0"	7/2"
L	4	1'-5"	5'-8"	6/2"
M	2	1'-3"	2'-6"	6"

1/4" PLATE (NO. 5)



William C. Decker
02/10/18

02/10/18



Addendum No. 01
ID 2030-14-70
Added Sheet 279E
February 6, 2018

NO.	DATE	REVISION	BY
1	2/05/18	NEW SHEET	MHZ

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-107

FENCE DECORATIVE WING (3 OF 3)

SHEET 33E OF 34

279E

PLOT SCALE : 1:12

PLOT NAME : #FILES

PLOT BY : rmygskovsky

PLOT DATE : 1.30/2018

FILE NAME : S:\DOT\DOT_SE\170358_S1M_100_HAST_Br_cages\Structures\20170913\B-40-107\DWG\cgs\B107_080710_cf.dgn

STATE PROJECT NUMBER
2030-14-70

DESIGN DATA

LIVE LOAD:

EXISTING GIRDERS (GIRDERS 3 THRU 7)
DESIGN RATING: HS19
INVENTORY RATING: HS32
OPERATING RATING: HS32
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV) = 220kips
NEW GIRDERS (GIRDERS 1 AND 2)
DESIGN RATING: HS20
INVENTORY RATING: HS33
OPERATING RATING: HS33
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV) = 250kips

FOUNDATION DATA

NEW ABUTMENTS AND PIER 1 EXTENSIONS TO BE SUPPORTED ON HP12X63 STEEL PILES DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ** SEE DESIGN NOTES FOR REQUIRED DRIVING RESISTANCE ESTIMATED 65 FEET LONG PILES AT PIER 1 AND PIER 2. ESTIMATED 60 FEET LONG PILES AT NORTH ABUTMENT. ESTIMATED 60 FEET LONG PILES AT NORTH ABUTMENT. ** SEE DESIGN NOTES FOR REQUIRED DRIVING RESISTANCE USED FOR DESIGN. ** THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

MATERIAL PROPERTIES

CONCRETE MASONRY
SUPERSTRUCTURE.....fc = 4000 psi
ALL OTHERfc = 3,500 psi
BAR STEEL REINFORCEMENT
HIGH STRENGTH, GRADE 60Fy = 60,000 psi
STRUCTURAL STEEL (ASTM A709).....Fy = 50,000 psi

TRAFFIC DATA

STH 100
AADT (2019) = 33,430
AADT (2035) = 41,100
DESIGN SPEED = 45 MPH

NO.	DATE	FOUNDATION DATA REVISED	BY
1	02/25/18		

BLOOM COMPANIES, LLC
 FOUNDATION DESIGN & CONSTRUCTION
 10501 W. Research Drive • Milwaukee, WI 53228
 Phone: (414) 771-2300 Fax: (414) 771-4489

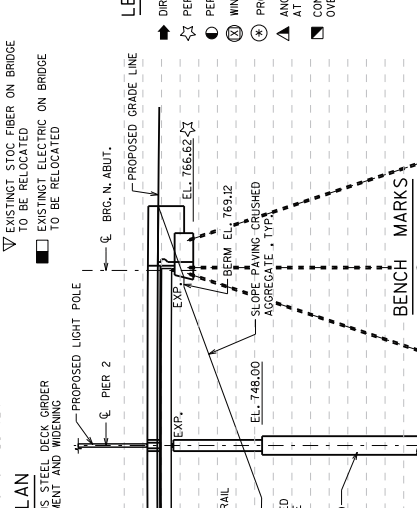
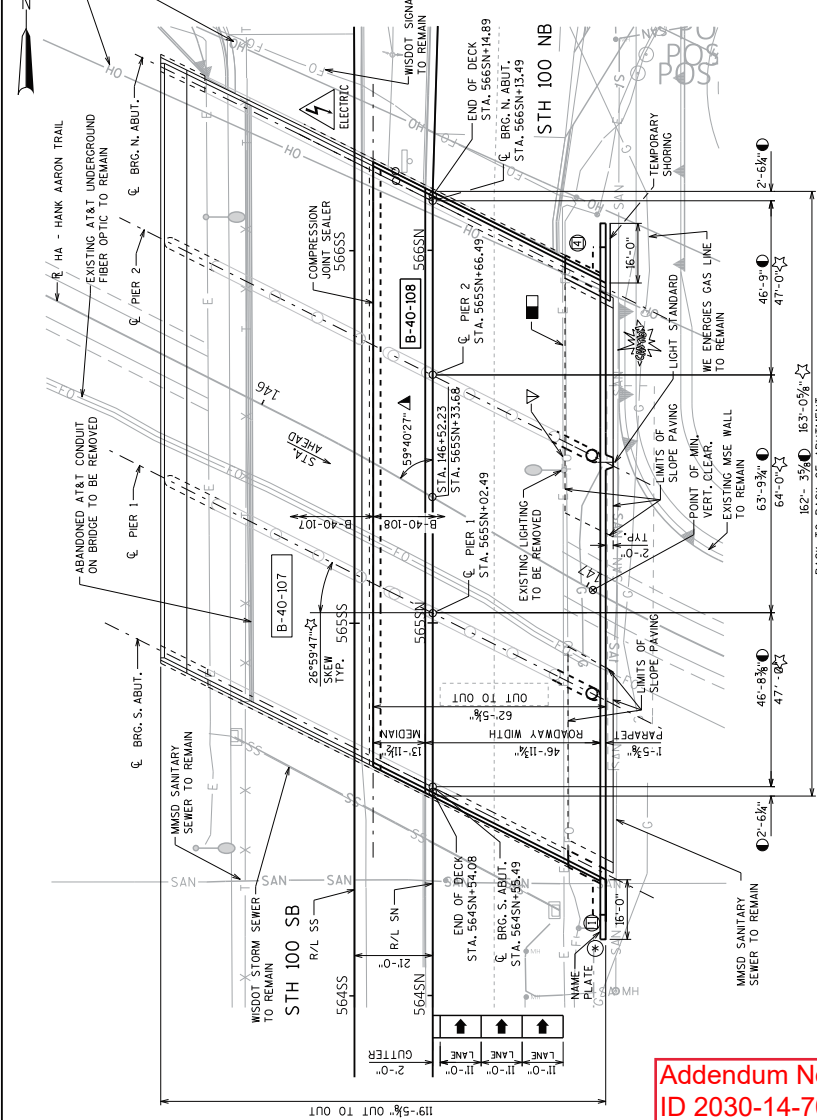
ACCEPTED BY: STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 CHIEF STRUCTURES DESIGN ENGINEER DATE

COUNTY: MILWAUKEE CITY: WEST ALLIS
 REVISION SPEC: REHABILITATION/AASHTO LRFD DESIGN SPECIFICATIONS
 DRAWN BY: WMM/NN BY: TAL/LCK/D/NN
 SHEET 1 OF 38

GENERAL PLAN AND ELEVATION
 281

LIST OF DRAWINGS

- GENERAL PLAN AND ELEVATION
- CONCRETE SECTION GENERAL NOTES
- ESTIMATE OF QUANTITIES
- SUBSURFACE EXPLORATION
- CONSTRUCTION STAGING (1 OF 2)
- CONSTRUCTION STAGING (2 OF 2)
- REMOVAL DETAILS (1 OF 2)
- REMOVAL DETAILS (2 OF 2)
- SUBSTRUCTURE PLAN
- SOUTH ABUTMENT 1 OF 3
- SOUTH ABUTMENT 2 OF 3
- NORTH ABUTMENT 1 OF 3
- NORTH ABUTMENT 2 OF 3
- NORTH ABUTMENT 3 OF 3
- PIER 1
- PIER 2
- BEARING DETAILS (1 OF 2)
- BEARING DETAILS (2 OF 2)
- FRAMING PLAN
- ORDER ELEVATION
- DIAPHRAGM DETAILS
- ORDER AND SUPERSTRUCTURE DETAILS
- TOP OF DECK ELEVATIONS
- SUPERSTRUCTURE REINFORCEMENT PLAN
- SUPERSTRUCTURE CROSS SECTIONS
- PIER REINFORCEMENT DETAILS
- PIER REINFORCEMENT DETAILS
- HAT BAR DETAILS
- SUPERSTRUCTURE BILL OF MATERIALS
- SLAB POURING SEQUENCE
- EXPANSION JOINT DETAILS (1 OF 2)
- EXPANSION JOINT DETAILS (2 OF 2)
- SINGLE SLOPE PARAPET (2 OF 2)
- CONDUIT SUPPORT DETAILS
- CONDUIT DETAILS
- SLOPE PAVING DETAILS



LEGEND

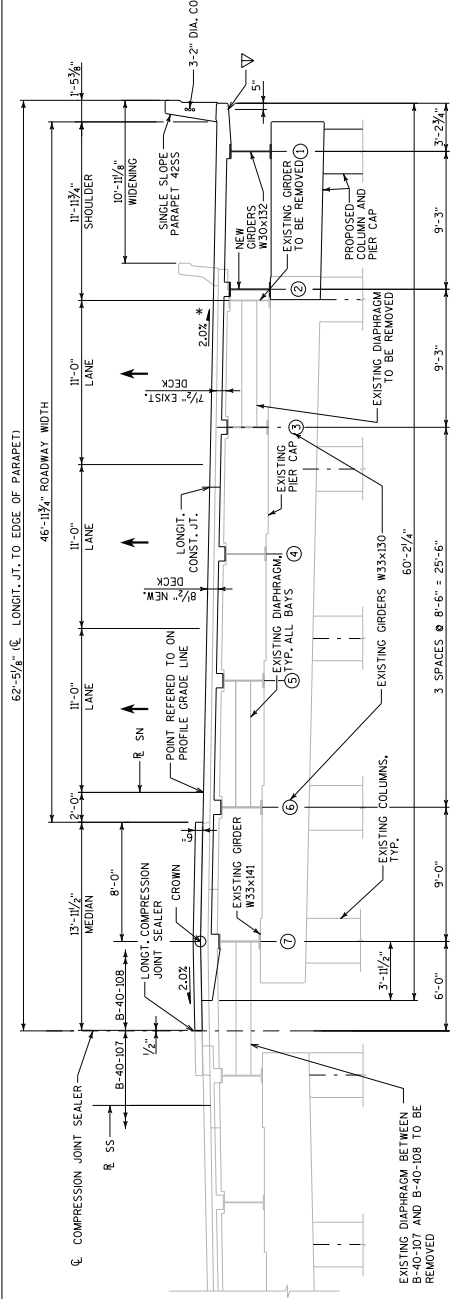
- DIRECTION OF TRAFFIC
- PER EXISTING STRUCTURE PLANS
- PER EXISTING SURVEY
- WINDOW NUMBER
- PROVIDE FOR "THREE BEAM GUARD RAIL ATTACHMENT".
- ANGLE MEASURED BETWEEN R, STH-100 AND R, HANK AARON TRAIL AT THE INTERSECTION POINT.
- CONSTRUCTION MUST BE ACCOMPLISHED BENEATH ACTIVE CHARGED OVERHEAD ELECTRIC LINES.

STRUCTURE DESIGN CONTACTS:
 BUREAU OF STRUCTURES CONTACT:
 WILLIAM DREHER
 (608) 266-8489
 CONSULTANT CONTACT:
 B. D. THEINGAMKUNNEL
 (414) 282-4599

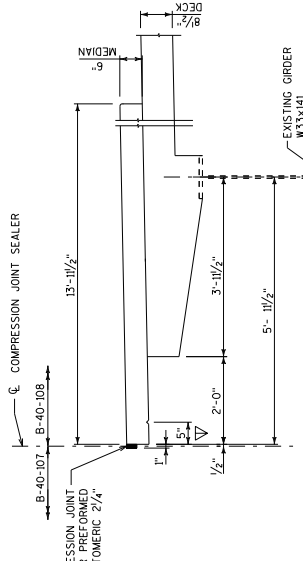
NO.	STATION, OFFSET	DESCRIPTION	ELEV.
81873	5645N+40.61Z/LT	PAINTED X IN LIGHT POLE BASE	774.833
81874	5625N+84.184/LT	CHISELED X IN ATC LOWER BASE	770.479

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February 6, 2018



TYPICAL SECTION
(LOOKING NORTH)
* EXISTING CROSS SLOPE IS 1.6%



LEGEND
▽ 1/2" V-CROOVE REQ. EXTEND TO 6'-0" FROM F.F. OF ABUT. BODY

CONCRETE SURFACE REPAIR REQUIRED IN AREAS DESIGNATED BY THE FIELD ENGINEER. QUANTITIES SHOWN ARE APPROXIMATE AND UNDISTRIBUTED.

PERFORM CRUSHED, ACCESTE, SLOPE PAVING REPAIR ON BOTH THE ABUTMENTS. LIMITS TO BE DETERMINED BY THE FIELD ENGINEER.

CLEAN AND PAINT ALL EXISTING STEEL BEARINGS AT THE PIERS AND ABUTMENTS. CLEANING AND PAINTING STEEL BEARINGS TO BE INCLUDED IN THE BID ITEM "STRUCTURE REPAIRING RECYCLED ABRASIVE B-40-108 PAINT APPLICATIONS ON THE BEARINGS SHALL BE BRUSHED ON. LIMITS TO BE DETERMINED BY THE FIELD ENGINEER."

ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER FRICTION TYPE, HIGH-TENSILE STRENGTH BOLTS UNLESS SHOWN OR NOTED OTHERWISE.

THE UTILITY INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS GUARANTEED TO BE CORRECT FOR AN AND ISSUE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE. UTILITIES LABELED AS PROPOSED MAY BE INSTALLED BY OTHERS PRIOR TO THIS CONTRACT.

THE EXISTING STRUCTURE B-40-108 IS A 3 SPAN STEEL DECK GIRDER STRUCTURE WITH AN OVERALL WIDTH OF 51'-6" AND AN OVERALL LENGTH OF 183'-09".

UNDER THE BID ITEM "REMOVING OLD STRUCTURE STA. 5655N+33.68", THE EXISTING DECK, PARAPET, MEDIAN, PAVING BLOCK, BACKWALL, AND EXPANSION JOINT SHALL BE COMPLETELY REMOVED. EXISTING ABUTMENTS, PIERS, CONNECTIONS, WINGWALLS, AND PIERS SHALL BE PARTIALLY REMOVED. EXISTING GIRDERS, DIAPHRAGMS, AND STEEL BEARINGS SHALL BE PARTIALLY REMOVED.

CLEAN AND PAINT ALL EXPOSED STEEL SUPERSTRUCTURE SURFACES UNDERNEATH THE BRIDGE. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, CONNECTIONS, ETC.

EXISTING AND PROPOSED STEEL SUPERSTRUCTURE SHALL HAVE A FINISHED COAT WITH COLOR TO MATCH SHERWIN WILLIAMS COLOR SW6523-DEMN BLUE.

ALL CONCRETE REMOVAL LIMITS SHALL BE DEFINED BY A 1 INCH DEEP SAMCUT. PAINTING SHALL BE DONE IN THE MIDDLE AND BOTTOM SURFACES COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND SLOPE PAVING DETAILS.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL DIMENSIONS ARE IN FEET AND INCHES, UNLESS OTHERWISE NOTED.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007)

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK, SIDEWALK, MEDIAN, AND TO THE VERTICAL AND HORIZONTAL SURFACES OF PAVING NOTCH.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND TOP OF PARAPET.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFY THE BAR SIZE. ALL DIMENSIONS IN THE BAR BENDS ARE OUT TO OUT.

THE DECK, PARAPET, SIDEWALK AND MEDIAN CONCRETE QUANTITY SHALL BE PAID FOR UNDER BID ITEM "HPC MASONRY STRUCTURES"

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK. EXISTING BARS SHALL BE CLEANED AND STRAIGHTENED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURE BRIDGES B-40-108" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRED ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF THE EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON "BLOCKING AND SLAB HAUNCH DETAILS" SHEET.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-40-108".

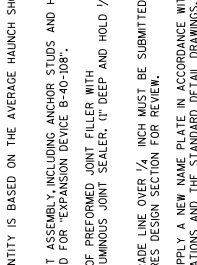
SEAL ALL EXPOSED EDGES OF PREFORMED JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. 1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.

VARIATIONS TO THE NEW GRADE LINE OVER 1/4" INCH MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN SECTION FOR REVIEW.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. THE NEW NAME PLATE SHALL SHOW THE ORIGINAL CONSTRUCTION YEAR, ORIGINAL CONSTRUCTION YEAR IS 1961.

PLANS OF THE EXISTING BRIDGE ARE ON FILE AND ARE AVAILABLE FOR INSPECTION AT THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTH EAST REGION.

GENERAL NOTES



William C. Decker
2/05/18

NO.	DATE	REVISION	BY	BOT
1	2/5/18	BACKWALL REMOVAL ADDED TO NOTE		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-108

DRAWN BY: DMC
FILES BDT
CHECKED BY: DMC

TYPICAL SECTION AND GENERAL NOTES

SHEET 2 OF 38

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STATE PROJECT NUMBER
2030-14-70

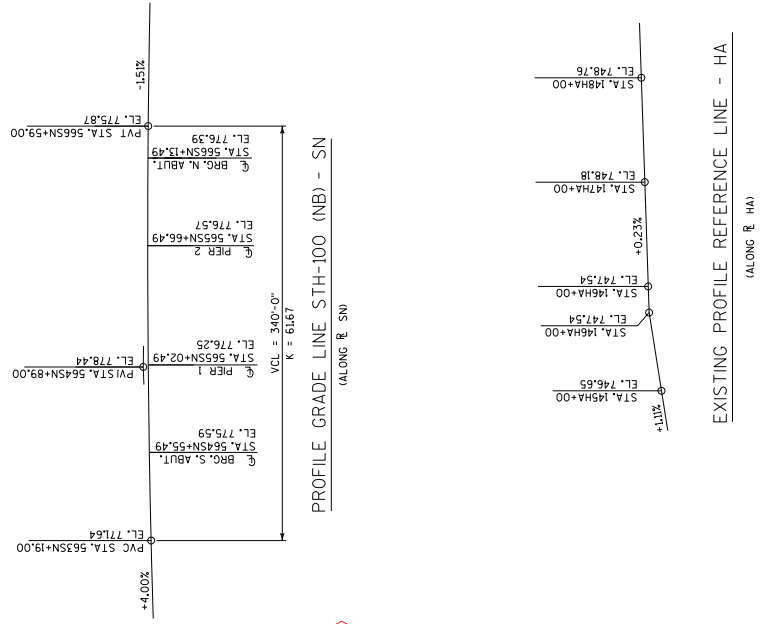
Addendum No. 01
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Revised Sheet 283
February 6, 2018

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT	SOUTH ABUTMENT	PIER 1	PIER 2	NORTH ABUTMENT	SUPER	TOTAL
203.0200.400	REMOVING OLD STRUCTURES STA.565+33.68	LS	-	-	-	-	-	1
203.0225.402	DEBRIS CONTAINMENT B-40-108	LS	-	-	-	-	-	1
206.0000.403	EXCAVATION FOR STRUCTURES BRIDGES B-40-108	LS	-	-	-	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	186	64	-	149	-	399
502.0100	CONCRETE MASONRY BRIDGES	CY	29	17	10.00	32	-	88
502.2000	COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC 2 1/4 - INCH	LF	-	-	-	-	163	163
502.2100.404	EXPANSION DEVICE B-40-108	LS	-	-	-	-	-	1
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	-	1130	1130
502.3210	PIGMENTED SURFACE SEALER	SY	8	-	-	8	79	95
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	-	-	-	-	-	-
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	20	-	-	22	-	242
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	15	12	12	15	-	54
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	670	200	5500	760	-	7130
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	3300	3100	3200	3320	86,610	99,540
506.0605	STRUCTURAL STEEL HS	LB	-	-	-	-	51,220	51,220
506.3015	WELDED STUD SHEAR CONNECTORS 7/8X6-INCH	EACH	-	-	-	-	1,326	1,326
506.5000.406	BEARING ASSEMBLIES FIXED B-40-108	EACH	-	2	-	-	-	2
506.6000.407	BEARING ASSEMBLIES EXPANSION B-40-108	EACH	7	-	2	-	-	16
506.7050.5.4108	REMOVING BEARINGS B-40-108	EACH	6	-	-	6	-	12
509.1500	CONCRETE SURFACE REPAIR	SF	8	7	7	8	-	30
511.2200.4109	TEMPORARY SHORING LEFT IN PLACE B-40-108	SY	-	-	-	-	14	235
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	-	-	-	-	-	28
517.0600.410	PAINTING EPOXY SYSTEM B-40-108	LS	-	-	-	-	-	1
517.0900.5.411	PREPARATION AND COATING OF TOP FLANGES B-40-108	LS	-	-	-	-	-	1
517.1800.5.412	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-108	LS	-	-	-	-	-	1
517.4500.5.413	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-40-108	LS	-	-	-	-	-	1
550.0000	PRE-BORING UNCONSOLIDATED MATERIALS	LF	-	30	-	-	-	30
550.0500	PILE POINTS	EACH	4	6	-	4	-	14
550.1020	PIILING STEEL HP 12-INCH X 53 LB	LF	280	400	-	240	-	920
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	96	-	-	108	-	204
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	35	-	-	35	-	70
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	-	-	-	-	-	1
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	23	-	-	21	-	44
652.0215	CONDUIT RIGID METALIC 2-INCH	LF	-	-	-	-	36	36
652.0225	CONDUIT RIGID NONMETALIC SCHEDULE 40 2-INCH	LF	-	-	-	-	550	550
653.0220	JUNCTION BOXES 18X16X6-INCH	EACH	-	-	-	-	3	3
653.0222	JUNCTION BOXES 18X12X6-INCH	EACH	-	-	-	-	1	1
657.6005	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	EACH	-	-	-	-	-	1
SPV.0035.4000	HPC MASONRY STRUCTURES	CY	2.50	-	-	2.50	347	352
SPV.0035.4200	OBSTRUCTIONS DRILLED FOUNDATION SHAFT	HRS	-	4	-	-	-	4
SPV.0090.4400	DRILLED SHAFT FOUNDATION 60-INCH	LF	-	62	-	-	-	62
SPV.0165.4700	LONGITUDINAL GROOVING BRIDGE DECK	SF	-	-	-	-	7524	7524
SPV.0180.4750	CLEAN ABUTMENT SEATS	SY	4.00	-	-	4.00	-	8
	NON-BID ITEM							
	PREFORMED JOINT FILLER	SIZE	-	-	-	-	-	3/4" X 11/2"
	NON-BITUMINOUS JOINT FILLER	SIZE	-	-	-	-	-	1/2"
	CORK FILLER	SIZE	-	-	-	-	-	3/4"
	NAME PLATE	EACH	-	-	-	-	-	1

ALL ITEMS ARE CATEGORY 2010
PORTABLE DECONTAMINATION FACILITY FOR THIS PROJECT IS PAID UNDER BID ITEMS FOR STRUCTURE B-40-107.

William C. Decker
02/05/18



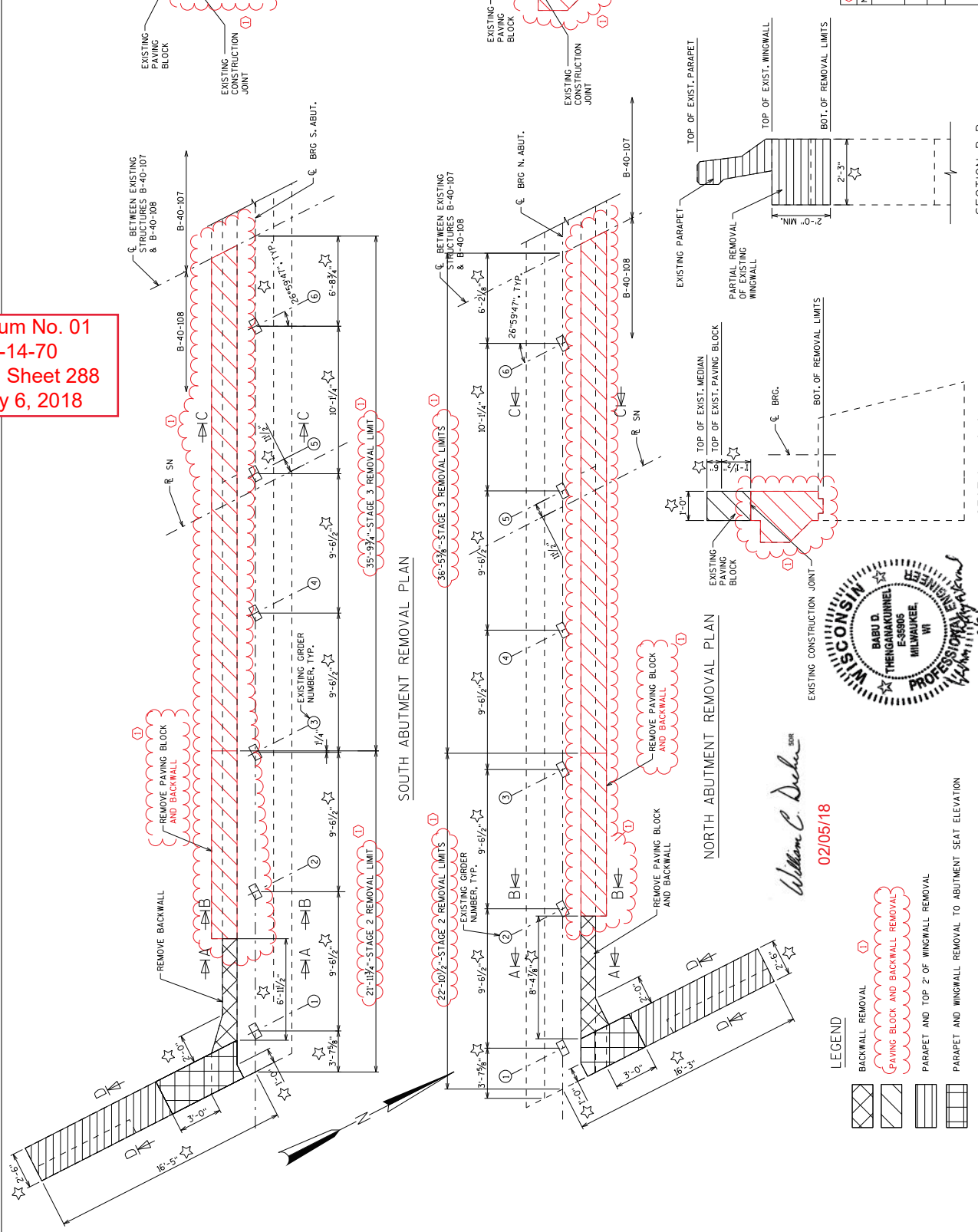
EXISTING PROFILE REFERENCE LINE - HA
(ALONG R HA)

QUANTITIES REVISION	BOT
NO. DATE	REVISION BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
STRUCTURE B-40-108	
DRAWN BY	PLANS CDR.
DMC	BOT
PROFILE GRADELINES & QUANTITIES	
SHEET 3 OF 38	
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ID 2030-14-70
Revised Sheet 288
February 6, 2018

STATE PROJECT NUMBER
2030-14-70



LEGEND
BACKWALL REMOVAL
PAVING BLOCK AND BACKWALL REMOVAL
PARAPET AND TOP 2' OF WINGWALL REMOVAL
PARAPET AND WINGWALL REMOVAL TO ABUTMENT SEAT ELEVATION
PER EXISTING STRUCTURE PLANS

William C. Decker
02/05/18



NO.	DATE	REVISION	BY
1	2/5/18	BACKWALL REMOVAL LIMITS REVISED	BOT

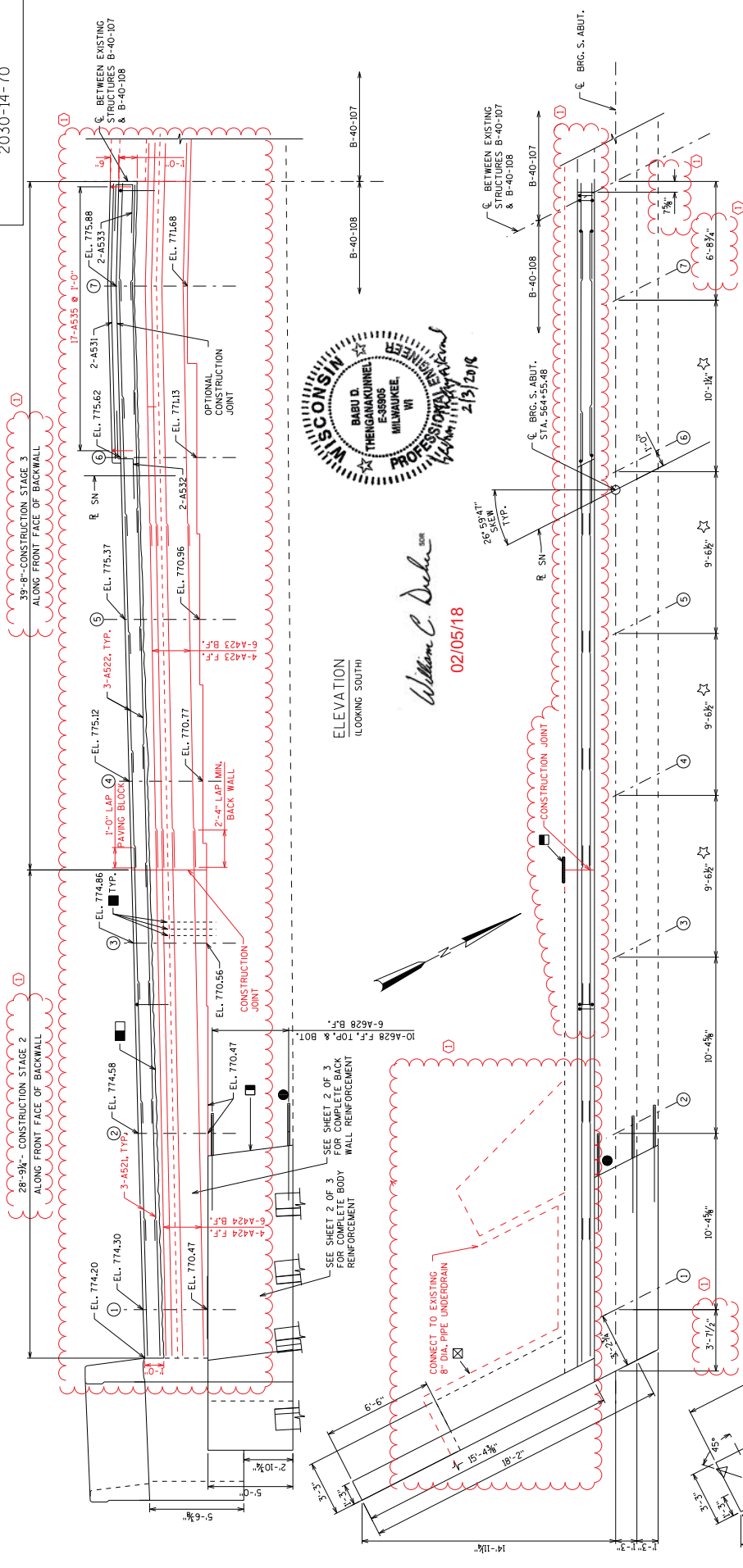
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURE B-40-108
DRAWN BY: J.A. FOLKS
CHECKED BY: BOT

REMOVAL
DETAILS (2 OF 2)

SHEET B OF 38
288

FILE NAME: F:\BID-2030-14-70\BID\Drawings\Structure\B-40-108\Remove Details 2.dgn
DATE: 2/3/2018 10:28:16 AM Plotted by: dmengon PEN TABLE: s:\struct\p\rev11

STATE PROJECT NUMBER
2030-14-70



William C. Decker
02/05/18

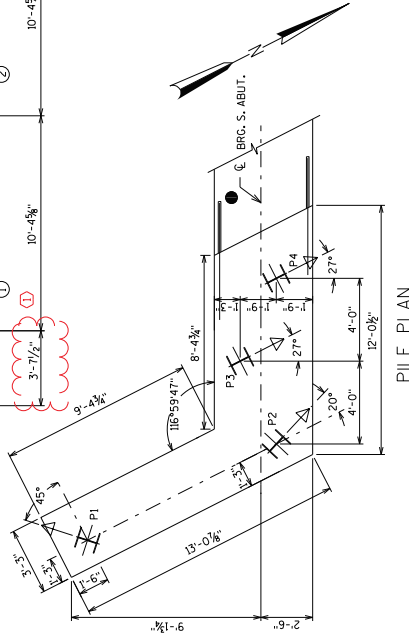
ELEVATION
(LOOKING SOUTH)

PLAN

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ID 2030-14-70
Revised Sheet 290
February 6, 2018

LEGEND

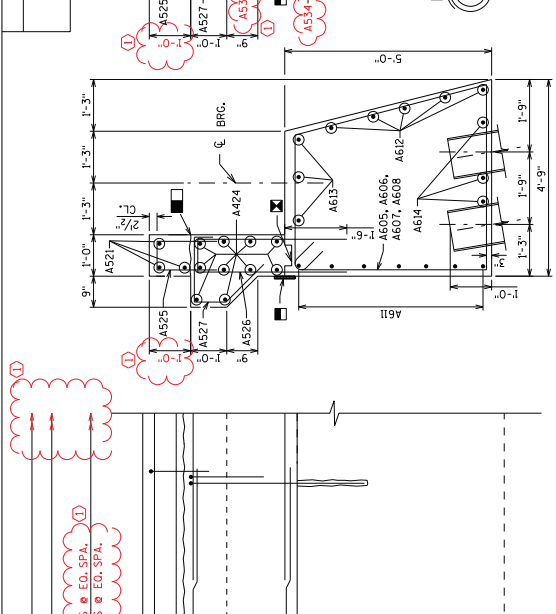
- ▲ BATTER DIRECTION
- CONCRETE ADHESIVE ANCHORS
- NO. 6 BARS EMBED 1'-0" MIN. EDGE DISTANCE 4"
- NO. 6 BARS EMBED 1'-3" MIN. EDGE DISTANCE 5"
- NO. 7 BARS EMBED 1'-5" MIN. EDGE DISTANCE 6"
- NO. 8 BARS EMBED 1'-8" MIN. EDGE DISTANCE 6"
- ⊠ PIPE UNDERDRAIN WRAPPED 16-INCH CONNECT TO EXISTING 8" DIA. PIPE UNDERDRAIN
- EXIST. JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE (STRIKE OFF AND LEAVE ROUGH).
- 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. AND VERT. JOINTS ON SURFACE ABOVE FOOTING
- ROUGHEN EXISTING CONCRETE SURFACE MINIMUM 1/4" DEEP.
- ☆ PER EXISTING STRUCTURE PLANS
- SALVAGE CLEAN AND EXTEND EXISTING VERTICAL REINFORCEMENT 24 x DIA. OF EXISTING REINFORCING BARS INTO NEW WORK



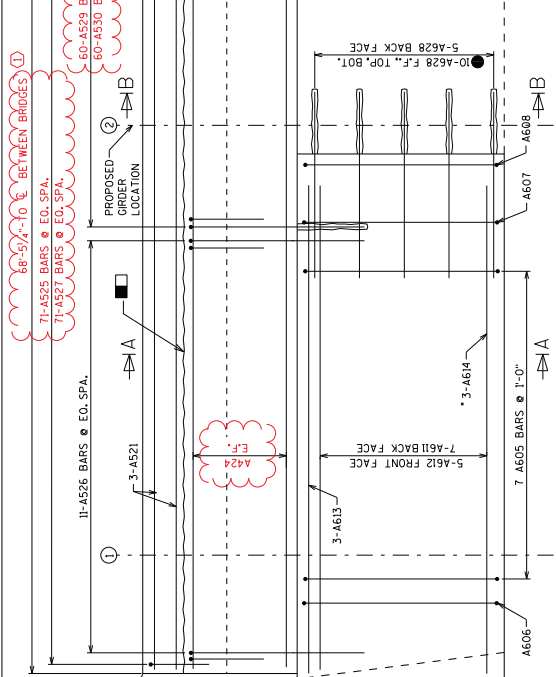
PILE PLAN

NO.	DATE	REVISION	BY
1	2/5/18	BACKWALL DETAILS ADDED	BOT

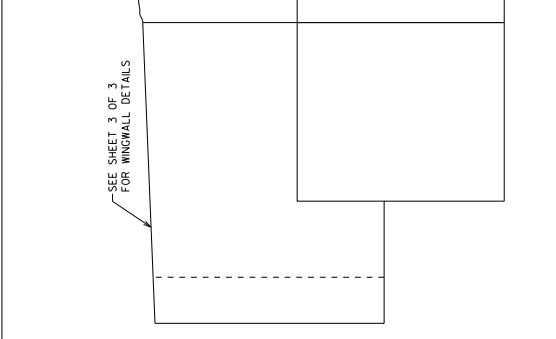
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	STRUCTURE B-40-108
DRAWN BY JA. FRANKS	CHECKED BY JA. FRANKS
SOUTH ABUTMENT	
1 OF 3	
SHEET 10 OF 38	
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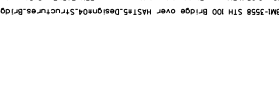
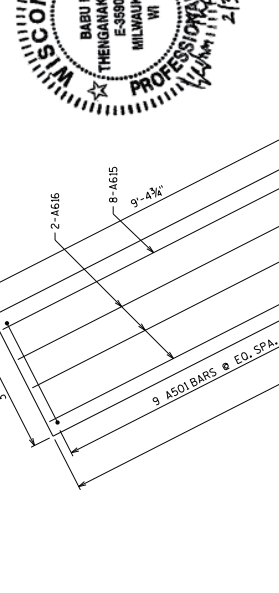
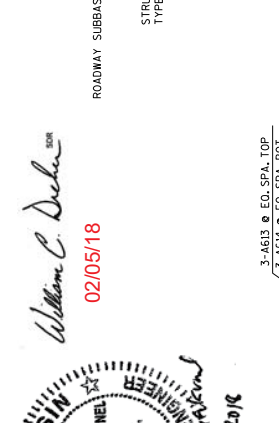
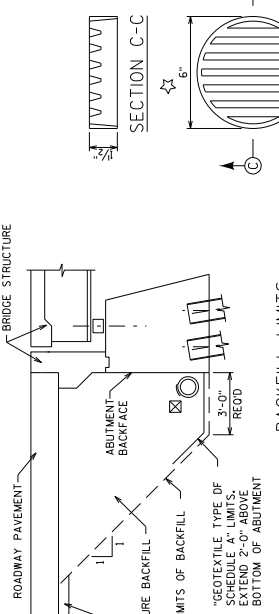
SECTION A-A
(SHOWING REINFORCEMENT)



SECTION B-B
(SHOWING CONNECTION TO EXISTING ABUTMENT STEP)



FOOTING PLAN
(SHOWING REINFORCEMENT)



SPACE BARS TO MISS PILES. MAINTAIN MAXIMUM SPACING BETWEEN STIRRUPS OF 1'-0"

CONCRETE ADHESIVE ANCHORS

NO. 5 BARS EMBED 1'-0", MIN. EDGE DISTANCE 4"

NO. 6 BARS EMBED 1'-3", MIN. EDGE DISTANCE 5"

NO. 7 BARS EMBED 1'-5", MIN. EDGE DISTANCE 6"

NO. 8 BARS EMBED 1'-8", MIN. EDGE DISTANCE 6"

PIPE UNDERDRAIN WRAPPED 16-INCH CONNECT TO EXISTING 8" DIA. PIPE UNDERDRAIN

KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2"x6"

18" RUBBERIZED MEMBRANE WATERPROOFING-SEAL ALL HORIZ. AND VERT. JOINTS ON BACKFACE ABOVE FOOTING.

CONST. JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE (STRIKE OFF AND LEAVE ROUGH).

BACKFILL LIMITS

LEGEND

* SPACE BARS TO MISS PILES. MAINTAIN MAXIMUM SPACING BETWEEN STIRRUPS OF 1'-0"

CONCRETE ADHESIVE ANCHORS

NO. 5 BARS EMBED 1'-0", MIN. EDGE DISTANCE 4"

NO. 6 BARS EMBED 1'-3", MIN. EDGE DISTANCE 5"

NO. 7 BARS EMBED 1'-5", MIN. EDGE DISTANCE 6"

NO. 8 BARS EMBED 1'-8", MIN. EDGE DISTANCE 6"

PIPE UNDERDRAIN WRAPPED 16-INCH CONNECT TO EXISTING 8" DIA. PIPE UNDERDRAIN

KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2"x6"

18" RUBBERIZED MEMBRANE WATERPROOFING-SEAL ALL HORIZ. AND VERT. JOINTS ON BACKFACE ABOVE FOOTING.

CONST. JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE (STRIKE OFF AND LEAVE ROUGH).

RODENT SHIELD

RODENT SHIELD 3/8" MAX. WIDTH

RODENT SHIELD 6" DIA.

RODENT SHIELD 1/2" DIA.

RODENT SHIELD 3/4" DIA.

RODENT SHIELD 1" DIA.

RODENT SHIELD 1 1/4" DIA.

RODENT SHIELD 1 1/2" DIA.

RODENT SHIELD 1 3/4" DIA.

RODENT SHIELD 2" DIA.

RODENT SHIELD 2 1/4" DIA.

RODENT SHIELD 2 1/2" DIA.

RODENT SHIELD 2 3/4" DIA.

RODENT SHIELD 3" DIA.

RODENT SHIELD 3 1/4" DIA.

RODENT SHIELD 3 1/2" DIA.

RODENT SHIELD 3 3/4" DIA.

RODENT SHIELD 4" DIA.

RODENT SHIELD 4 1/4" DIA.

RODENT SHIELD 4 1/2" DIA.

RODENT SHIELD 4 3/4" DIA.

RODENT SHIELD 5" DIA.

RODENT SHIELD 5 1/4" DIA.

RODENT SHIELD 5 1/2" DIA.

RODENT SHIELD 5 3/4" DIA.

RODENT SHIELD 6" DIA.

RODENT SHIELD 6 1/4" DIA.

RODENT SHIELD 6 1/2" DIA.

RODENT SHIELD 6 3/4" DIA.

RODENT SHIELD 7" DIA.

RODENT SHIELD 7 1/4" DIA.

RODENT SHIELD 7 1/2" DIA.

RODENT SHIELD 7 3/4" DIA.

RODENT SHIELD 8" DIA.

RODENT SHIELD 8 1/4" DIA.

RODENT SHIELD 8 1/2" DIA.

RODENT SHIELD 8 3/4" DIA.

RODENT SHIELD 9" DIA.

RODENT SHIELD 9 1/4" DIA.

RODENT SHIELD 9 1/2" DIA.

RODENT SHIELD 9 3/4" DIA.

RODENT SHIELD 10" DIA.

RODENT SHIELD 10 1/4" DIA.

RODENT SHIELD 10 1/2" DIA.

RODENT SHIELD 10 3/4" DIA.

RODENT SHIELD 11" DIA.

RODENT SHIELD 11 1/4" DIA.

RODENT SHIELD 11 1/2" DIA.

RODENT SHIELD 11 3/4" DIA.

RODENT SHIELD 12" DIA.

RODENT SHIELD 12 1/4" DIA.

RODENT SHIELD 12 1/2" DIA.

RODENT SHIELD 12 3/4" DIA.

RODENT SHIELD 13" DIA.

RODENT SHIELD 13 1/4" DIA.

RODENT SHIELD 13 1/2" DIA.

RODENT SHIELD 13 3/4" DIA.

RODENT SHIELD 14" DIA.

RODENT SHIELD 14 1/4" DIA.

RODENT SHIELD 14 1/2" DIA.

RODENT SHIELD 14 3/4" DIA.

RODENT SHIELD 15" DIA.

RODENT SHIELD 15 1/4" DIA.

RODENT SHIELD 15 1/2" DIA.

RODENT SHIELD 15 3/4" DIA.

RODENT SHIELD 16" DIA.

RODENT SHIELD 16 1/4" DIA.

RODENT SHIELD 16 1/2" DIA.

RODENT SHIELD 16 3/4" DIA.

RODENT SHIELD 17" DIA.

RODENT SHIELD 17 1/4" DIA.

RODENT SHIELD 17 1/2" DIA.

RODENT SHIELD 17 3/4" DIA.

RODENT SHIELD 18" DIA.

RODENT SHIELD 18 1/4" DIA.

RODENT SHIELD 18 1/2" DIA.

RODENT SHIELD 18 3/4" DIA.

RODENT SHIELD 19" DIA.

RODENT SHIELD 19 1/4" DIA.

RODENT SHIELD 19 1/2" DIA.

RODENT SHIELD 19 3/4" DIA.

RODENT SHIELD 20" DIA.

RODENT SHIELD 20 1/4" DIA.

RODENT SHIELD 20 1/2" DIA.

RODENT SHIELD 20 3/4" DIA.

RODENT SHIELD 21" DIA.

RODENT SHIELD 21 1/4" DIA.

RODENT SHIELD 21 1/2" DIA.

RODENT SHIELD 21 3/4" DIA.

RODENT SHIELD 22" DIA.

RODENT SHIELD 22 1/4" DIA.

RODENT SHIELD 22 1/2" DIA.

RODENT SHIELD 22 3/4" DIA.

RODENT SHIELD 23" DIA.

RODENT SHIELD 23 1/4" DIA.

RODENT SHIELD 23 1/2" DIA.

RODENT SHIELD 23 3/4" DIA.

RODENT SHIELD 24" DIA.

RODENT SHIELD 24 1/4" DIA.

RODENT SHIELD 24 1/2" DIA.

RODENT SHIELD 24 3/4" DIA.

RODENT SHIELD 25" DIA.

RODENT SHIELD 25 1/4" DIA.

RODENT SHIELD 25 1/2" DIA.

RODENT SHIELD 25 3/4" DIA.

RODENT SHIELD 26" DIA.

RODENT SHIELD 26 1/4" DIA.

RODENT SHIELD 26 1/2" DIA.

RODENT SHIELD 26 3/4" DIA.

RODENT SHIELD 27" DIA.

RODENT SHIELD 27 1/4" DIA.

RODENT SHIELD 27 1/2" DIA.

RODENT SHIELD 27 3/4" DIA.

RODENT SHIELD 28" DIA.

RODENT SHIELD 28 1/4" DIA.

RODENT SHIELD 28 1/2" DIA.

RODENT SHIELD 28 3/4" DIA.

RODENT SHIELD 29" DIA.

RODENT SHIELD 29 1/4" DIA.

RODENT SHIELD 29 1/2" DIA.

RODENT SHIELD 29 3/4" DIA.

RODENT SHIELD 30" DIA.

RODENT SHIELD 30 1/4" DIA.

RODENT SHIELD 30 1/2" DIA.

RODENT SHIELD 30 3/4" DIA.

NO.	DATE	REVISION	BY
1	2/5/18	BACKFILL DETAILS ADDED	BDT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-108

DRAWN BY: J.A. CHKD.
CHECKED BY: J.A. CHKD.

SOUTH ABUTMENT
2 OF 3

SHEET II OF 38

291

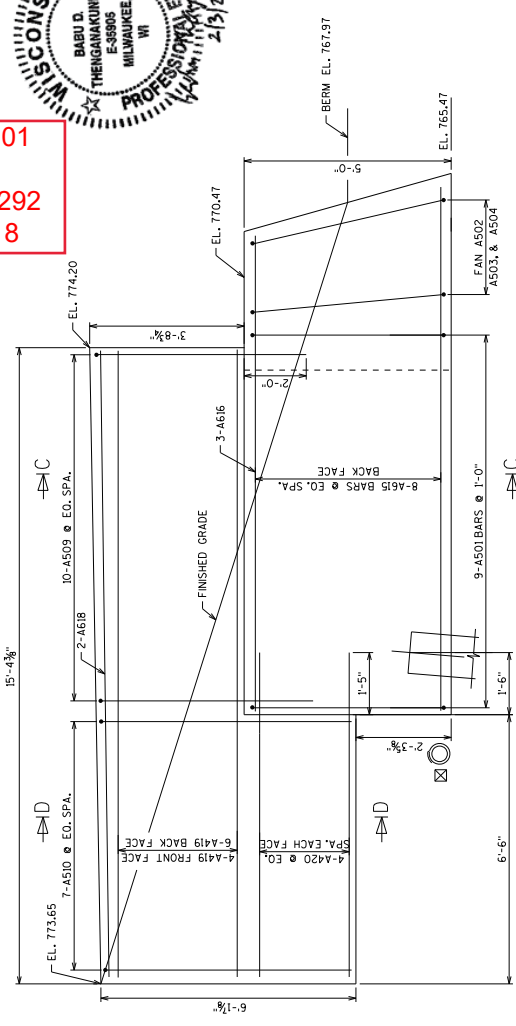
Addendum No. 01
ID 2030-14-70
Revised Sheet 291
February 6, 2018

Professional Engineer
WISCONSIN
Babu D. Thengakunnel
E-38905
MILWAUKEE, WI
2/5/2018

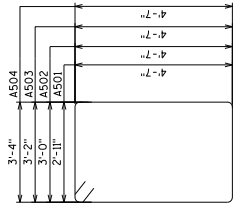
02/05/18
William C. DeLuca



Addendum No. 01
ID 2030-14-70
Revised Sheet 292
February 6, 2018

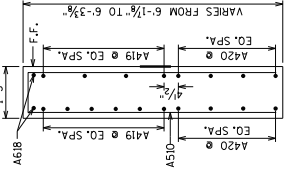
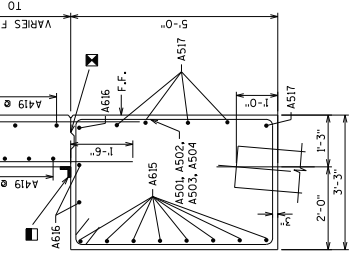


ELEVATION (LOOKING WEST)



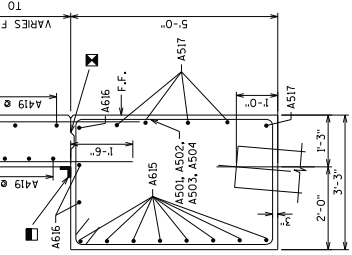
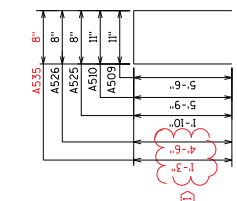
02/05/18

William C. DeLor

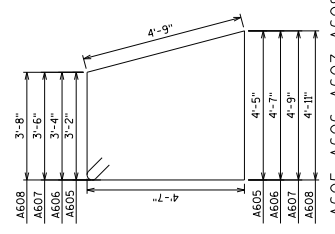


A501, A502, A503, A504

A517



A509, A510, A525, A526, A535



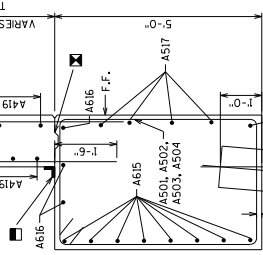
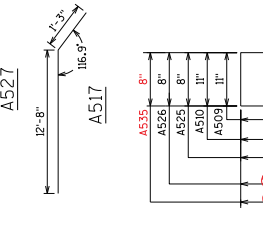
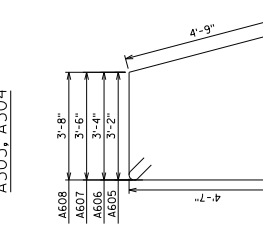
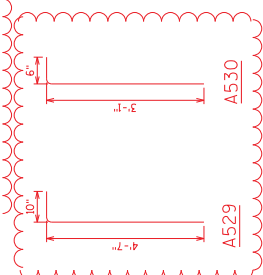
A605, A606, A607, A608

BILL OF BARS

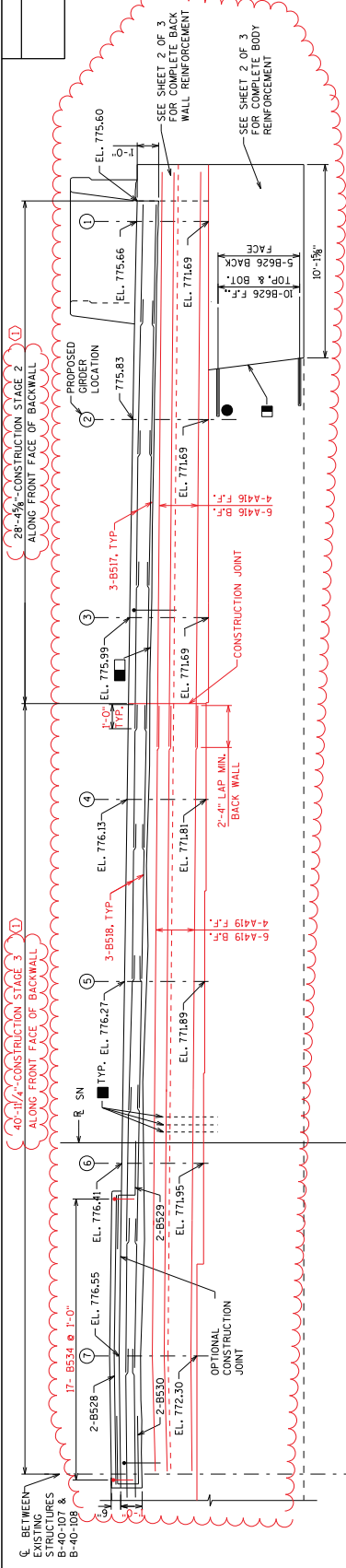
BAR MARK	NO.	STAGE 2	STAGE 3	LENGTH	BENT	LOCATION
A501	X	9		15'-10"	X	WINGWALL FOOTING - TRANS.
A502	X	1		16'-0"	X	WINGWALL FOOTING - TRANS., FANNED
A503	X	1		15'-4"	X	WINGWALL FOOTING - TRANS., FANNED
A504	X	1		16'-8"	X	WINGWALL FOOTING - TRANS., FANNED
A605		7		17'-10"	X	BODY - TRANS.
A606		1		18'-0"	X	BODY - TRANS., FANNED
A607		1		18'-1"	X	BODY - TRANS., FANNED
A608		1		18'-9"	X	BODY - TRANS., FANNED
A609	X	10		11'-0"	X	WINGWALL - TRANS., ABOVE FOOTING
A610	X	7		12'-2"	X	WINGWALL - TRANS., CANTILEVER
A611		7		9'-9"	-	BODY - LONG., BACK FACE
A612		5		11'-9"	-	BODY - LONG., FRONT FACE
A613		3		11'-9"	-	BODY - LONG., TOP
A614		3		11'-9"	-	BODY - LONG., BOTTOM
A615	X	8		11'-9"	-	WINGWALL FOOTING - LONG., TOP
A616	X	3		12'-0"	-	WINGWALL FOOTING - LONG., TOP
A617	X	6		13'-11"	X	WINGWALL FOOTING - LONG., FRONT FACE
A618	X	2		15'-9"	-	WINGWALL - LONG., TOP
A619	X	10		15'-1"	-	WINGWALL - LONG., ABOVE FOOTING
A620	X	8		7'-10"	-	WINGWALL - LONG., AT FOOTING
A521	X	12		8'-25"	-	BACKWALL - LONG., PAVING BLOCK-STAGE 2
A522	X	18		7'-10"	-	BACKWALL - LONG., PAVING BLOCK-STAGE 3
A423	X	10		42'-8"	-	BACKWALL - LONG., -STAGE 2
A424	X	10		31'-4"	-	BACKWALL - LONG., -STAGE 3
A525	X	30		4'-11"	X	BACKWALL - TRANS., PAVING BLOCK-STAGE 2 AND 3
A526	X	11		9'-5"	-	BACKWALL - TRANS., BACKWALL
A527	X	30		4'-8"	X	BACKWALL - TRANS., PAVING NOTCH-STAGE 2 & 3
A628		15		4'-9"	-	BODY - MAS. ANCHOR
A529	X	19		5'-4"	X	BACKWALL - VERTICAL MAS. ANCHORS-STAGE 2 & 3
A530	X	19		3'-6"	X	BACKWALL - VERTICAL-STAGE 2 & 3
A531	X	2		15'-5"	-	MEDIAN - LONG.
A532	X	2		6'-5"	X	MEDIAN - LONG., PAVING BLOCK DOWEL
A533	X	2		6'-5"	X	MEDIAN - LONG., PAVING BLOCK DOWEL
A534	X	19		4'-5"	-	BACKWALL - VERTICAL MAS. ANCHORS-STAGE 2 & 3
A535	X	17		2'-11"	X	MEDIAN - VERTICAL

LEGEND

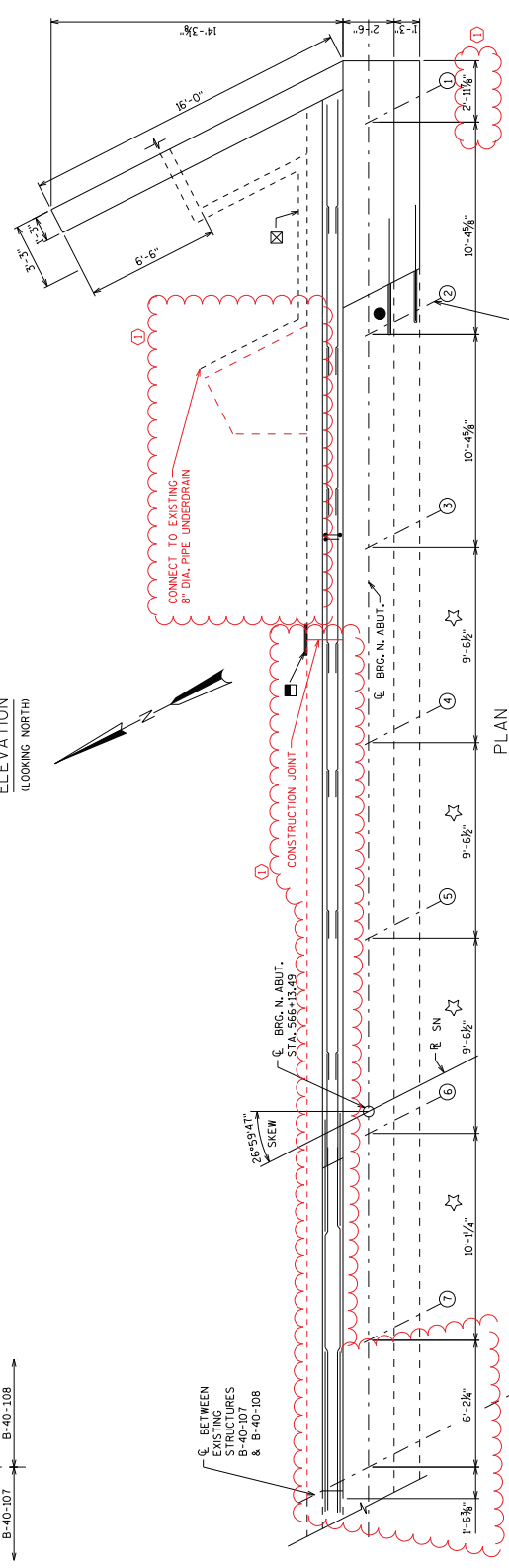
- ▲ LENGTH SHOWN FOR BAR IS ONLY AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.
- ☒ PIPE UNDERDRAIN WRAPPED (6-INCH) CONNECT TO EXISTING 8" DIA. PIPE UNDERDRAIN
- ▽ CONSTRUCTION JOINT - STRIKE OFF AS SHOWN
- 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. AND VERT. JOINTS ON BACKFACE ABOVE FOOTING.
- ☒ REVEED CONSTRUCTION JOINT FORMED BY BEVELED Z-AB



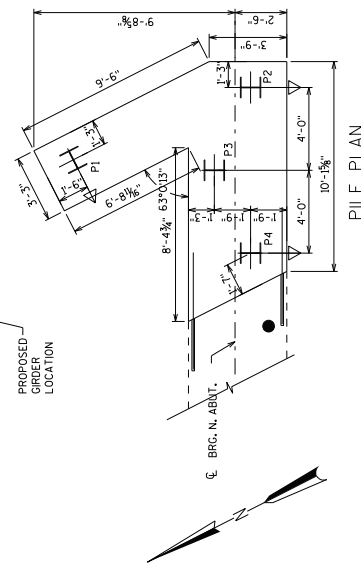
2/5/18	BILL OF BARS REVISED	BDT
NO.	REVISION	BY
STATE OF WISCONSIN		
DEPARTMENT OF TRANSPORTATION		
STRUCTURE B-40-108		
DRAWN BY		PLANS BDT
SOUTH ABUTMENT		SHEET 12 OF 38
3 OF 3		292



ELEVATION
(LOOKING NORTH)



PLAN



PILE PLAN

Addendum No. 01
ID 2030-14-70
Revised Sheet 293
February 6, 2018

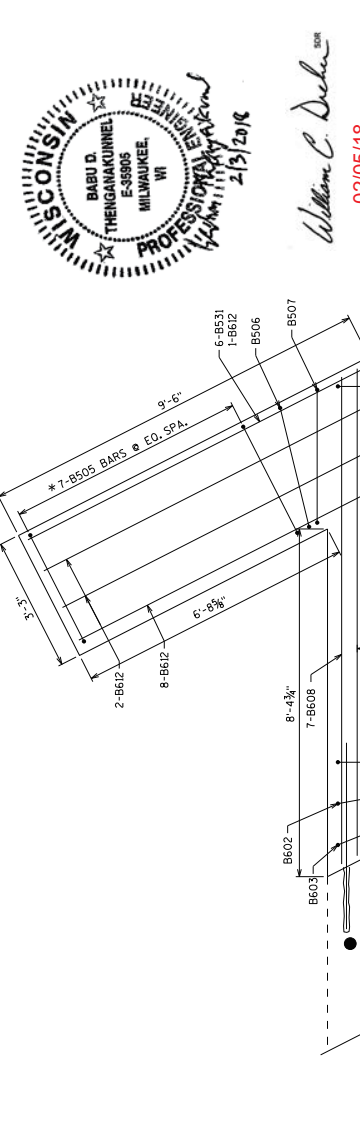
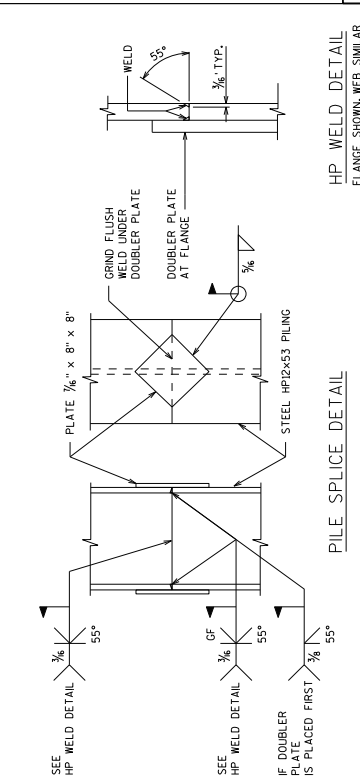
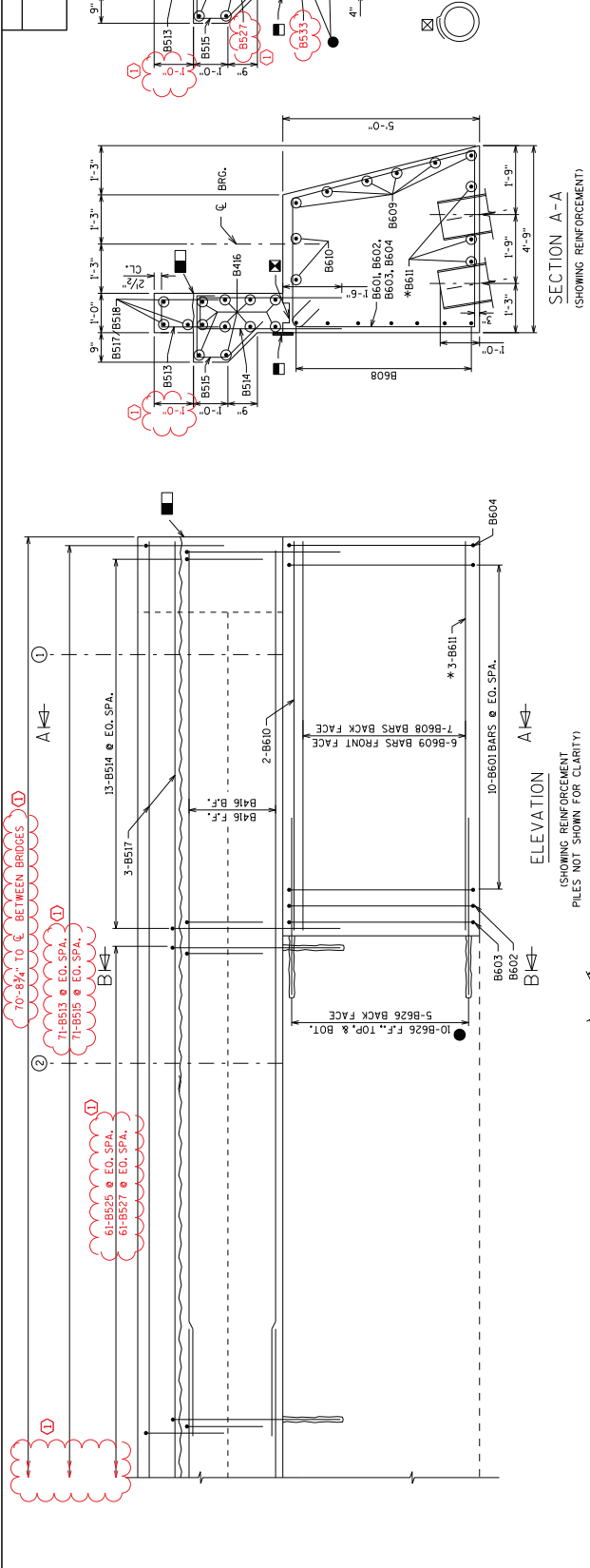
- LEGEND**
- ➔ BATTER DIRECTION
 - CONCRETE ADHESIVE ANCHORS
 - NO. 5 BARS EMBED 1'-0", MIN. EDGE DISTANCE 4"
 - NO. 6 BARS EMBED 1'-3", MIN. EDGE DISTANCE 5"
 - NO. 8 BARS EMBED 1'-8", MIN. EDGE DISTANCE 6"
 - ⊠ PIPE UNDERDRAIN WRAPPED (6 INCH) CONNECT TO EXISTING 8" DIA. PIPE UNDERDRAIN
 - CONST. JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE (STRIKE OFF AND LEAVE ROUGH).
 - SALVAGE, CLEAN, AND EXTEND EXISTING VERTICAL REINFORCING 24 x (DIA.) OF EXISTING REINFORCING BAR INTO NEW WORK
 - 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. AND VERTICAL JOINTS ON BACKFACE ABOVE FOOTING
 - ☆ PER EXISTING STRUCTURE PLANS
 - F.F. FRONT FACE
 - B.F. BACK FACE
 - E.F. EACH FACE
 - ROUGHEN EXISTING CONCRETE SURFACE MINIMUM 1/4" DEEP
 - SALVAGE, CLEAN, AND EXTEND EXISTING VERTICAL REINFORCING 24 x (DIA.) OF EXISTING REINFORCING BAR INTO NEW WORK

William C. Decker
02/05/18



NO.	DATE	REVISION	BY
1	2/25/18	BACKWALL DETAILS ADDED	BDT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
STRUCTURE B-40-108	
DRAWN BY	J.A. CRON
CHECKED BY	J.A. CRON
NORTH ABUTMENT	
1 OF 3	
SHEET 13 OF 38	
293	



LEGEND

SPACE BARS TO MISS PILES, MAINTAIN MAXIMUM SPACING BETWEEN STIRRUPS OF 1'-0".

PIPE UNDERDRAIN WRAPPED 16-INCH CONNECT TO EXISTING 8" DIA. PIPE UNDERDRAIN

18" RUBBERIZED MEMBRANE WATERPROOFING, SEAL ALL HORIZ. AND VERT. JOINTS ON BACKFACE ABOVE FOOTING

CONST. JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE (STRIKE OFF AND LEAVE ROUGH)

WELDED CONSTRUCTION JOINT FORMED BY BEVELED 2x6's

CONCRETE ADHESIVE ANCHORS

NO. 5 BARS EMBED 1'-0", MIN. EDGE DISTANCE 4"

NO. 6 BARS EMBED 1'-2", MIN. EDGE DISTANCE 6"

NO. 7 BARS EMBED 1'-4", MIN. EDGE DISTANCE 8"

NO. 8 BARS EMBED 1'-6", MIN. EDGE DISTANCE 6"

NO.	DATE	REVISION	BY
1	2/5/18	BACKWALL DETAILS ADDED	BDT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-108
NORTH ABUTMENT
2 OF 3

HP WELD DETAIL
FLANGE SHOWN, WEB SIMILAR



William C. Dehn
02/05/18

Addendum No. 01
ID 2030-14-70
Revised Sheet 294
February 6, 2018

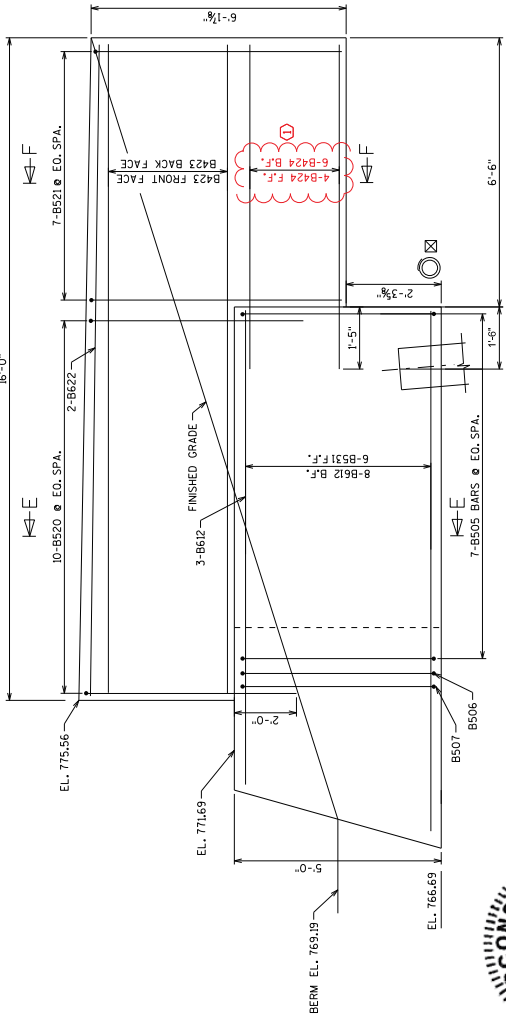
BILL OF BARS

BAR MARK	NO.	STAGE	LENGTH	BENT	LOCATION
B601	-	10	17'-7"	X	BODY - TRANS.
B602	1	-	17'-11"	X	BODY - TRANS., FANNED
B603	-	1	18'-3"	X	BODY - TRANS., FANNED
B604	1	-	18'-7"	X	BODY - TRANS., CORNER
B505	X	7	15'-8"	X	WINGWALL FOOTING - TRANS.
B506	X	1	15'-10"	X	WINGWALL FOOTING - TRANS., FANNED
B507	X	1	15'-4"	X	WINGWALL FOOTING - TRANS., FANNED
B608	7	-	11'-8"	-	BODY - LONG., BACK FACE
B609	6	-	9'-10"	-	BODY - LONG., FRONT FACE
B610	2	-	11'-4"	-	BODY - LONG., TOP
B611	3	-	11'-1"	-	BODY - LONG., BOTTOM
B612	X	11	9'-4"	-	WINGWALL FOOTING - LONG.
B513	X	30	4'-1"	X	BACKWALL - TRANS., PAVING BLOCK
B514	X	13	9'-7"	X	BACKWALL - TRANS., BACKWALL
B515	X	30	4'-8"	X	BACKWALL - TRANS., PAVING NOTCH
B416	X	10	30'-7"	-	BACKWALL - LONG., STAGE 2
B517	X	12	8'-5"	-	BACKWALL - LONG., PAVING BLOCK - STAGE 2
B518	X	-	18	7'-10"	BACKWALL - LONG., PAVING BLOCK - STAGE 3
B419	X	-	10	43'-4"	BACKWALL - LONG., STAGE 3
B520	X	10	12'-2"	X	WINGWALL - TRANS., ABOVE FOOTING
B521	X	7	12'-4"	X	WINGWALL - TRANS., CANTILEVER
B622	X	2	15'-8"	-	WINGWALL - LONG., TOP
B423	X	6	15'-8"	-	WINGWALL - LONG., ABOVE FOOTING, B.F.
B424	X	10	7'-9"	-	WINGWALL - LONG., AT FOOTING
B525	X	19	42	5'-2"	BACKWALL - VERTICAL MAS., ANCHORS
B626	-	15	-	4'-9"	BODY - MAS., ANCHORS
B527	X	19	42	3'-4"	BACKWALL - VERTICAL
B528	X	-	2	15'-5"	MEDIAN - LONG.
B529	X	-	2	6'-5"	MEDIAN - LONG., PAVING BLOCK DOWEL
B530	X	-	2	6'-5"	MEDIAN - LONG., PAVING BLOCK DOWEL
B531	X	6	-	13'-5"	WINGWALL FOOTING - LONG., F.F.
B432	X	4	-	16'-2"	WINGWALL - LONG., ABOVE FOOTING, F.F.
B533	X	19	42	5'-4"	BACKWALL - VERTICAL MAS., ANCHORS
B534	X	-	17	2'-11"	MEDIAN - VERTICAL

LEGEND

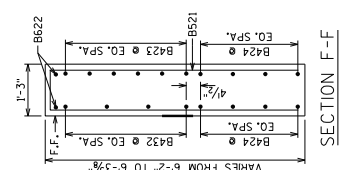
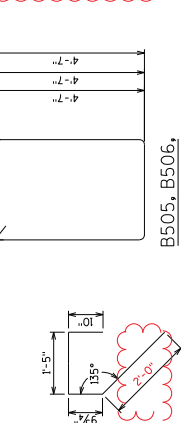
- ▲ LENGTH SHOWN FOR BAR IS ONLY AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR ORDER QUANTITIES. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.
- ☒ PIPE UNDERDRAIN WRAPPED 16-INCH CONNECT TO EXISTING 8" DIA. PIPE UNDERDRAIN.
- ▽ CONSTRUCTION JOINT - STRIKE OFF AS SHOWN
- 18" RUBBERIZED MEMBRANE WATERPROOFING, SEAL ALL HORIZ. AND VERT. JOINTS ON BACKFACE ABOVE FOOTING.

Addendum No. 01
ID 2030-14-70
Revised Sheet 295
February 6, 2018



ELEVATION (LOOKING WEST)

William C. Decker
02/05/18



SECTION E-E

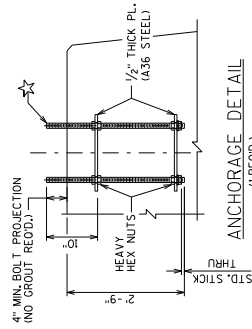
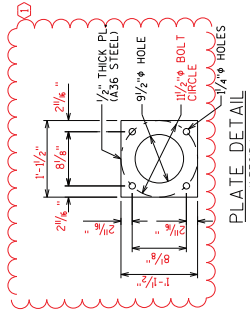
SECTION F-F

2/5/18	BILL OF BARS REVISION	BOT
NO.	DATE	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
STRUCTURE B-40-108		
DRAWN BY: J.A. CHODURA		
CHECKED BY: J.A. CHODURA		
SHEET 15 OF 38		
NORTH ABUTMENT 3 OF 3		
295		

Addendum No. 01
ID 2030-14-70
Revised Sheet 316
February 6, 2018

LEGEND

- CONSTR. JT. STRIKE OFF AS SHOWN
- ▲ CUT OUT 1/2" OF CASSET AT BOTTOM OF JUNCTION BOX COVER TO ALLOW FOR DRAINAGE. LOCATION OF JUNCTION BOX TO BE DETERMINED BY ENGINEER.
- ▽ LOCATION OF CONDUIT IS MEASURED FROM OUTSIDE EDGE OF JUNCTION BOX.
- ▣ THESE BARS ARE IN ADDITION TO STANDARD TRANSVERSE BARS IN DECK.
- ☆ 1/4" THREADED ANCHOR BOLTS
ASTM A449 OR AASHTO M 314-90 GR 55. HOT DIP ASTM A153-CLASS C, UPPER 8". PROVIDE MIN. DRIBBLE THRESHOLD W/ WASHERS. FOR PROPER FIT AFTER GALVANIZING. PROVIDE DOUBLE FLAT WASHERS & NUTS.
- * SEE "SINGLE SLOPE PARAPET 425S" FOR ADDITIONAL BAR STEEL DETAILS.



BILL OF BARS

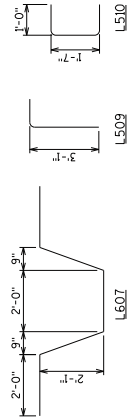
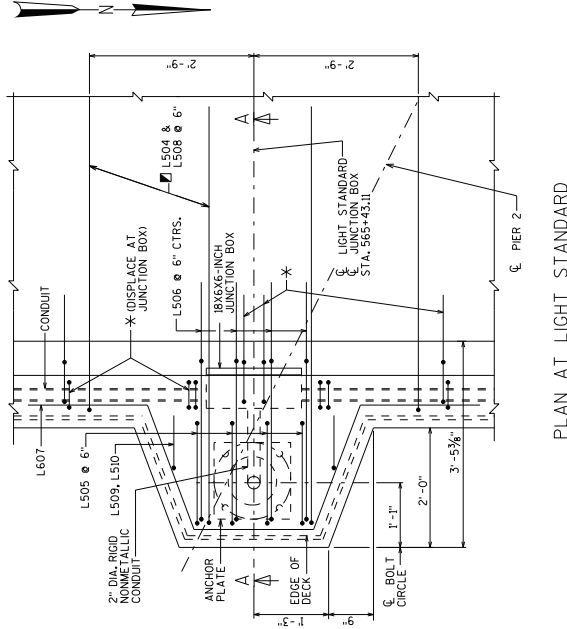
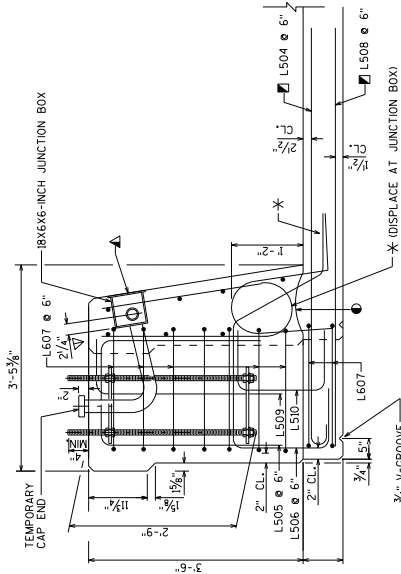
BAR MARK	NO. RECD.	LENGTH	BAR SERIES	LOCATION
L504	X 12	9'-7"	X	DECK TOP TRANSVERSE ◊ LIGHT STANDARD
L505	X 4	7'-8"	X	PARAPET VERTICAL ◊ LIGHT STANDARD
L506	X 4	7'-0"	X	PARAPET HORIZONTAL ◊ LIGHT STANDARD
L607	X 9	10'-0"	X	DECK BOTTOM TRANSVERSE ◊ LIGHT STANDARD
L508	X 12	9'-0"	X	PARAPET VERTICAL ◊ LIGHT STANDARD
L509	X 2	4'-0"	X	PARAPET VERTICAL ◊ LIGHT STANDARD
L510	X 2	3'-4"	X	PARAPET VERTICAL ◊ LIGHT STANDARD

William C. Duhon, Inc.

02/05/18



① 2/5/18	BOLT CIRCLE DIA. REVISED	BDT
NO.	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
STRUCTURE B-40-108		
DRAWN BY	TRKMS CHD.	BDT
SHEET 36 OF 38		
316		



HWY 100

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)					Mass Ordinate
			Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut	Salvaged/ Unusable Pavement Material	Fill	EBS	Cut	Expanded Fill	Expanded EBS Backfill	
			Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7	Note 8	Note 9	Note 10	Note 11	Note 12
562+00 AH	56200.00	0.00	42.85	0.00	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
562+50	56250.00	50.00	41.39	0.00	11.83	0.00	0.00	78.00	0.00	15.86	0.00	0.00	0.00	60.55
563+00	56300.00	50.00	43.84	0.00	16.76	0.00	0.00	78.92	0.00	26.47	0.00	0.00	0.00	110.35
563+50	56350.00	50.00	43.50	0.00	79.47	0.00	0.00	80.87	0.00	89.10	0.00	0.00	0.00	93.21
564+00	56400.00	50.00	56.95	0.00	320.60	0.00	0.00	93.01	0.00	370.44	0.00	0.00	0.00	-221.26
564+34	56434.12	34.12	58.70	0.00	505.57	0.00	0.00	73.07	0.00	522.02	0.00	0.00	0.00	-722.41
564+53	56452.96	18.84	40.33	0.00	202.40	0.00	0.00	34.55	0.00	247.00	0.00	0.00	0.00	-959.56
564+64	56463.96	11.00	37.38	0.00	199.80	0.00	0.00	15.83	0.00	81.93	0.00	0.00	0.00	-1033.85
564+85 BK	56485.46	21.50	0.00	0.00	0.00	0.00	0.00	14.88	0.00	79.55	0.00	0.00	0.00	-1106.47
565+97 AH	56597.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
566+16	56616.01	18.84	90.63	0.00	34.02	0.00	0.00	31.62	0.00	11.87	0.00	0.00	0.00	18.56
566+26	56625.59	9.58	120.99	0.00	1.01	0.00	0.00	37.54	0.00	6.21	0.00	0.00	0.00	49.27
566+45	56645.43	19.84	122.72	0.00	0.18	0.00	0.00	89.54	0.00	0.44	0.00	0.00	0.00	138.33
566+50	56650.00	4.57	191.22	0.00	60.23	0.00	0.00	26.57	0.00	5.11	0.00	0.00	0.00	159.28
567+00	56700.00	50.00	324.03	0.00	22.44	0.00	0.00	477.08	0.00	76.55	0.00	0.00	0.00	552.16
567+15	56715.00	15.00	313.25	0.00	4.66	0.00	0.00	177.02	0.00	7.53	0.00	0.00	0.00	720.90
567+15	56715.00	0.00	192.07	0.00	193.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	720.90
567+23	56723.00	8.00	132.40	0.00	10.55	0.00	0.00	48.07	0.00	30.19	0.00	0.00	0.00	735.76
567+24 BK	56724.18	1.18	50.07	0.00	10.52	0.00	0.00	3.99	0.00	0.46	0.00	0.00	0.00	739.24
Column totals			1360.57	0.00	1570.73	0.00	0.00							

Addendum No. 01
 ID 2030-14-70
 Revised Sheet 319
 February 6, 2018

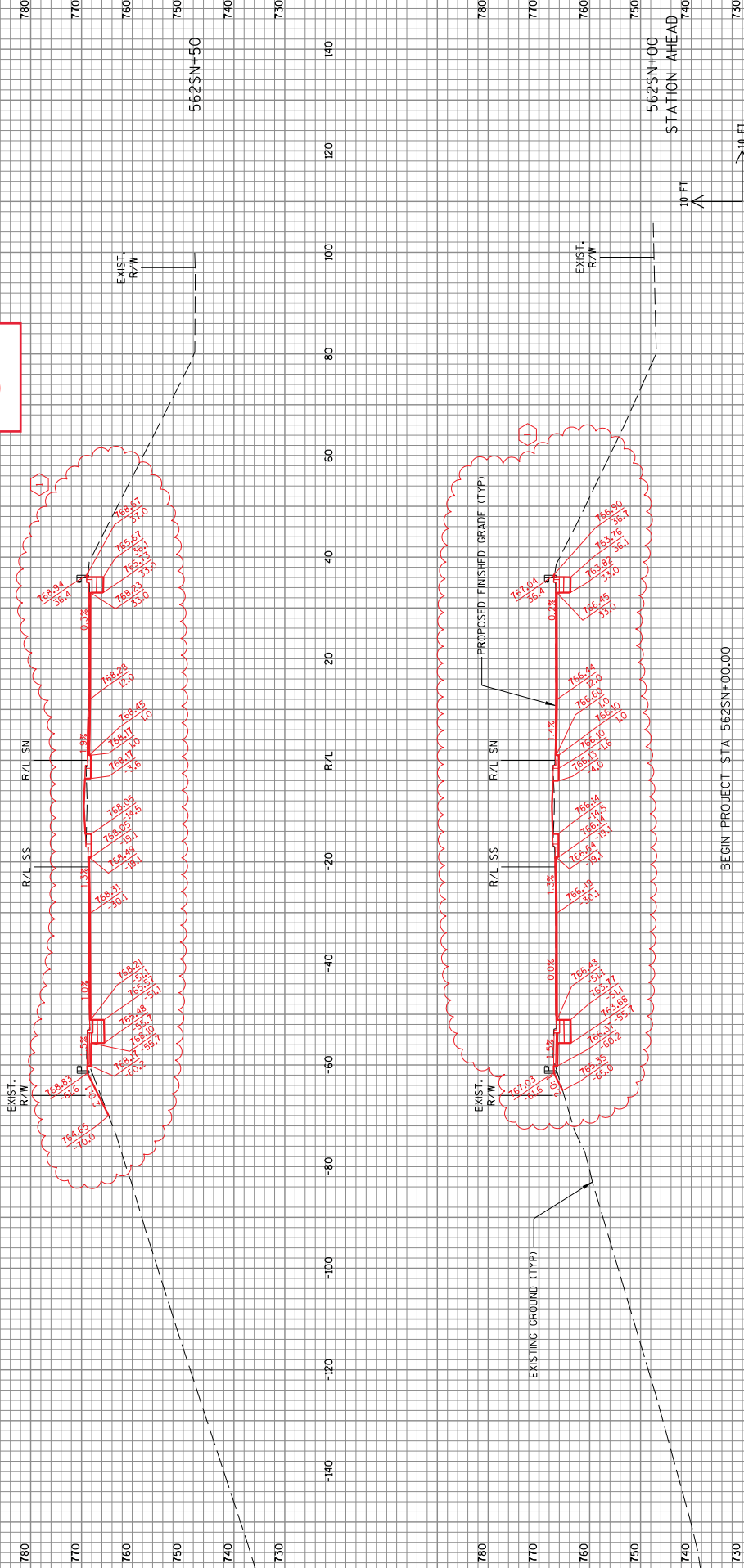
Notes:

- 1 - Cut
- 2 - Salvaged/Unusable Pavement Material
- 3 - Fill
- 4 - Expanded EBS
- 5 - Reduced EBS in Fill
- 6 - Mass Ordinate

Cut includes Salvaged/Unusable Pavement material
 This does not show up in cross sections nor is it shown in these sheets. Refer to Summary Table for this roadway's quantity.
 Does not include Unusable Pavement Exc volume
 Will be backfilled with Borrow
 Reduced EBS Excavation that can be used in Fill
 If EBS to be backfilled with Cut or Borrow: [(Cut + EBS) - ((Fill) - (Reduced EBS in Fill)) * Fill Factor]

NOTE:
THE LOCATION OF EXISTING UTILITIES AS
SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.

Addendum No. 01
ID 2030-14-70
Revised Sheet 320
February 6, 2018



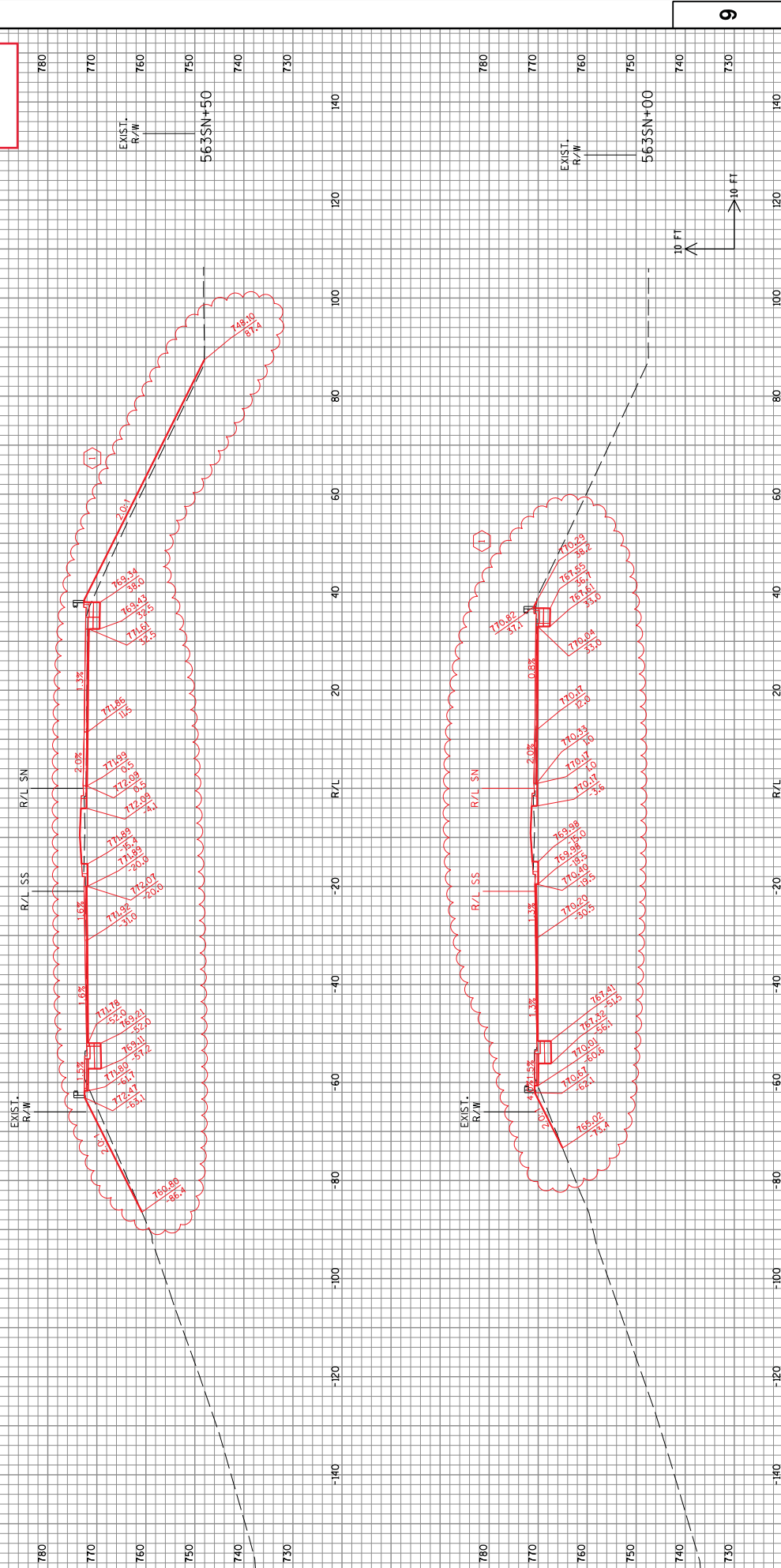
9

9

STATE PROJECT NO: 2030-14-70
COUNTY: MILWAUKEE
CROSS SECTIONS: STH 100 NB & SB
SHEET NO: 320

FILE NAME: S:\00\001-SS\170358-Sth 100 HWY Br-edges\Roads\cbs\090201-ss.dgn
PLOT DATE: 2-6-2018
PLOT BY: weelck
PLOT SCALE: 1:20

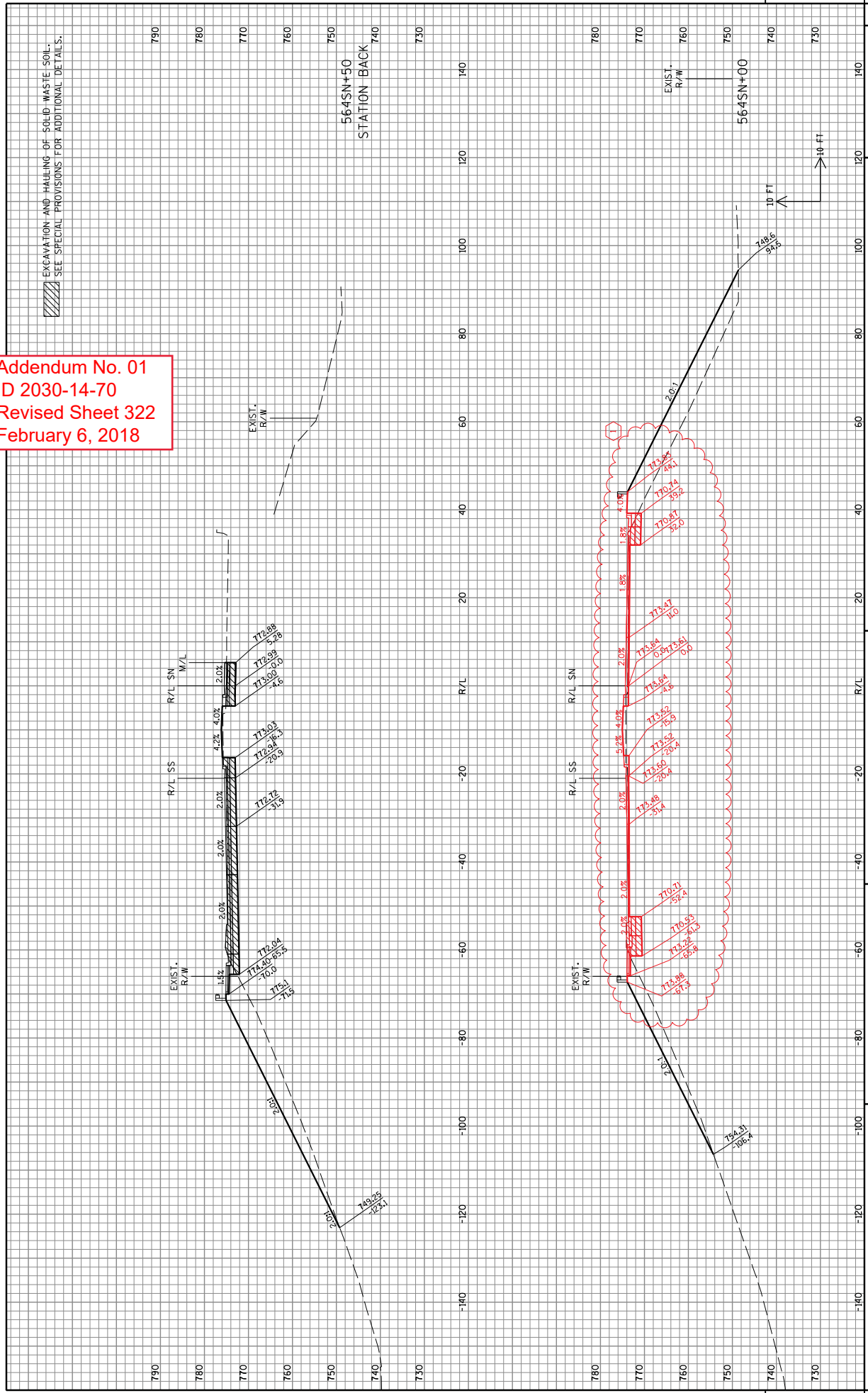
Addendum No. 01
 ID 2030-14-70
 Revised Sheet 321
 February 6, 2018



STATE PROJECT NO: 2030-14-70	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100 NB & SB	SHEET NO: 321	E
FILE NAME: S:\007\001-SS\170358-Sth 100 HWY Br. Cages\Roads\cbs\090201-ss.dgn		PLOT DATE: 2-5-2018	PLOT BY: weelock	PLOT SCALE: 1:20	

Addendum No. 01
 ID 2030-14-70
 Revised Sheet 322
 February 6, 2018

EXCAVATION AND HAULING OF SOLID WASTE SOIL -
 SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.





Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	108.4400 CPM Progress Schedule	1.000 EACH	_____.	_____.
0004	203.0200 Removing Old Structure (station) 4000.565SS+00	LS	LUMP SUM	_____.
0006	203.0200 Removing Old Structure (station) 4100.565+33.68	LS	LUMP SUM	_____.
0008	203.0225.S Debris Containment (structure) 4001. B-40-107	LS	LUMP SUM	_____.
0010	203.0225.S Debris Containment (structure) 4102. B-40-108	LS	LUMP SUM	_____.
0012	204.0100 Removing Pavement	1,114.000 SY	_____.	_____.
0014	204.0120 Removing Asphaltic Surface Milling	1,557.000 SY	_____.	_____.
0016	204.0150 Removing Curb & Gutter	1,935.000 LF	_____.	_____.
0018	204.0155 Removing Concrete Sidewalk	393.000 SY	_____.	_____.
0020	204.0157 Removing Concrete Barrier	20.000 LF	_____.	_____.
0022	204.0165 Removing Guardrail	626.000 LF	_____.	_____.
0024	204.0195 Removing Concrete Bases	8.000 EACH	_____.	_____.
0026	204.0210 Removing Manholes	1.000 EACH	_____.	_____.
0028	204.0220 Removing Inlets	5.000 EACH	_____.	_____.
0030	204.0245 Removing Storm Sewer (size) 0001. 12-Inch	54.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	204.9060.S Removing (item description) 3001. Concrete Base Type 13	1.000 EACH	_____.	_____.
0034	204.9105.S Removing (item description) 3001. Traffic Signals IH 94 EB Off Ramp & STH 100	LS	LUMP SUM	_____.
0036	205.0100 Excavation Common	1,951.000 CY	_____.	_____.
0038	206.1000 Excavation for Structures Bridges (structure) 4002. B-40-107	LS	LUMP SUM	_____.
0040	206.1000 Excavation for Structures Bridges (structure) 4103. B-40-108	LS	LUMP SUM	_____.
0042	210.1500 Backfill Structure Type A	1,688.000 TON	_____.	_____.
0044	213.0100 Finishing Roadway (project) 0001. 2030- 14-70	1.000 EACH	_____.	_____.
0046	305.0120 Base Aggregate Dense 1 1/4-Inch	2,416.000 TON	_____.	_____.
0048	312.0115 Select Crushed Material	719.000 CY	_____.	_____.
0050	415.0080 Concrete Pavement 8-Inch	191.000 SY	_____.	_____.
0052	415.0410 Concrete Pavement Approach Slab	440.000 SY	_____.	_____.
0058	416.0180 Concrete Driveway 8-Inch	115.000 SY	_____.	_____.
0060	416.0610 Drilled Tie Bars	52.000 EACH	_____.	_____.
0062	416.0620 Drilled Dowel Bars	90.000 EACH	_____.	_____.
0064	455.0605 Tack Coat	371.000 GAL	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0066	460.2000 Incentive Density HMA Pavement	40.000 DOL	1.00000	40.00
0070	465.0125 Asphaltic Surface Temporary	521.000 TON	_____	_____
0072	502.0100 Concrete Masonry Bridges	211.000 CY	_____	_____
0074	502.3100 Expansion Device (structure) 4003. B-40-107	LS	LUMP SUM	_____
0076	502.3100 Expansion Device (structure) 4104. B-40-108	LS	LUMP SUM	_____
0078	502.3200 Protective Surface Treatment	2,144.000 SY	_____	_____
0080	502.3210 Pigmented Surface Sealer	159.000 SY	_____	_____
0084	502.4205 Adhesive Anchors No. 5 Bar	450.000 EACH	_____	_____
0086	502.4206 Adhesive Anchors No. 6 Bar	101.000 EACH	_____	_____
0088	502.4208 Adhesive Anchors No. 8 Bar	5.000 EACH	_____	_____
0090	505.0400 Bar Steel Reinforcement HS Structures	12,340.000 LB	_____	_____
0092	505.0600 Bar Steel Reinforcement HS Coated Structures	185,840.000 LB	_____	_____
0094	506.0605 Structural Steel HS	102,594.000 LB	_____	_____
0096	506.3014 Welded Stud Shear Connectors 3/4x6-Inch	866.000 EACH	_____	_____
0098	506.3015 Welded Stud Shear Connectors 7/8x6-Inch	1,326.000 EACH	_____	_____



Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0100	506.5000 Bearing Assemblies Fixed (structure) 4005. B-40-107	2.000 EACH	_____.	_____.
0102	506.5000 Bearing Assemblies Fixed (structure) 4106. B-40-108	2.000 EACH	_____.	_____.
0104	506.6000 Bearing Assemblies Expansion (structure) 4006. B-40-107	16.000 EACH	_____.	_____.
0106	506.6000 Bearing Assemblies Expansion (structure) 4107. B-40-108	16.000 EACH	_____.	_____.
0108	506.7050.S Removing Bearings (structure) 4007. B- 40-107	10.000 EACH	_____.	_____.
0110	506.7050.S Removing Bearings (structure) 4108. B- 40-108	12.000 EACH	_____.	_____.
0112	509.1500 Concrete Surface Repair	90.000 SF	_____.	_____.
0114	511.2200 Temporary Shoring Left in Place (structure) 4109. B-40-108	235.000 SF	_____.	_____.
0118	516.0500 Rubberized Membrane Waterproofing	50.000 SY	_____.	_____.
0120	517.0600 Painting Epoxy System (structure) 4009. B-40-107	LS	LUMP SUM	_____.
0122	517.0600 Painting Epoxy System (structure) 4110. B-40-108	LS	LUMP SUM	_____.
0124	517.0900.S Preparation and Coating of Top Flanges (structure) 4010. B-40-107	LS	LUMP SUM	_____.
0126	517.0900.S Preparation and Coating of Top Flanges (structure) 4111. B-40-108	LS	LUMP SUM	_____.



Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0128	517.1800.S Structure Repainting Recycled Abrasive (structure) 4011. B-40-107	LS	LUMP SUM	_____.
0130	517.1800.S Structure Repainting Recycled Abrasive (structure) 4112. B-40-108	LS	LUMP SUM	_____.
0132	517.4500.S Negative Pressure Containment and Collection of Waste Materials (structure) 4012. B-40-107	LS	LUMP SUM	_____.
0134	517.4500.S Negative Pressure Containment and Collection of Waste Materials (structure) 4113. B-40-108	LS	LUMP SUM	_____.
0136	517.6001.S Portable Decontamination Facility	1.000 EACH	_____.	_____.
0138	520.8000 Concrete Collars for Pipe	8.000 EACH	_____.	_____.
0140	550.0010 Pre-Boring Unconsolidated Materials	30.000 LF	_____.	_____.
0142	550.0500 Pile Points	39.000 EACH	_____.	_____.
0144	550.1120 Piling Steel HP 12-Inch X 53 Lb	2,675.000 LF	_____.	_____.
0146	601.0331 Concrete Curb & Gutter 31-Inch	2,256.000 LF	_____.	_____.
0148	602.0410 Concrete Sidewalk 5-Inch	3,903.000 SF	_____.	_____.
0150	602.0515 Curb Ramp Detectable Warning Field Natural Patina	116.000 SF	_____.	_____.
0152	602.0615 Curb Ramp Detectable Warning Field Radial Natural Patina	23.000 SF	_____.	_____.
0154	603.8000 Concrete Barrier Temporary Precast Delivered	2,653.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0156	603.8125 Concrete Barrier Temporary Precast Installed	4,451.000 LF	_____.	_____.
0158	604.0500 Slope Paving Crushed Aggregate	438.000 SY	_____.	_____.
0160	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	71.000 LF	_____.	_____.
0162	611.0535 Manhole Covers Type J-Special	2.000 EACH	_____.	_____.
0164	611.0624 Inlet Covers Type H	6.000 EACH	_____.	_____.
0166	611.2004 Manholes 4-FT Diameter	2.000 EACH	_____.	_____.
0168	611.3004 Inlets 4-FT Diameter	6.000 EACH	_____.	_____.
0170	611.8115 Adjusting Inlet Covers	1.000 EACH	_____.	_____.
0172	611.8120.S Cover Plates Temporary	7.000 EACH	_____.	_____.
0174	611.9710 Salvaged Inlet Covers	2.000 EACH	_____.	_____.
0176	612.0406 Pipe Underdrain Wrapped 6-Inch	195.000 LF	_____.	_____.
0178	612.0806 Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	4.000 EACH	_____.	_____.
0180	614.0115 Anchorages for Steel Plate Beam Guard Type 2	2.000 EACH	_____.	_____.
0182	614.0150 Anchor Assemblies for Steel Plate Beam Guard	2.000 EACH	_____.	_____.
0184	614.0200 Steel Thrie Beam Structure Approach	42.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0186	614.0305 Steel Plate Beam Guard Class A	516.000 LF	_____	_____
0188	614.0905 Crash Cushions Temporary	4.000 EACH	_____	_____
0190	614.0930 Salvaged Crash Cushions	1.000 EACH	_____	_____
0192	616.0700.S Fence Safety	500.000 LF	_____	_____
0194	619.1000 Mobilization	1.000 EACH	_____	_____
0196	620.0300 Concrete Median Sloped Nose	66.000 SF	_____	_____
0198	623.0200 Dust Control Surface Treatment	3,794.000 SY	_____	_____
0200	624.0100 Water	13.000 MGAL	_____	_____
0202	627.0200 Mulching	946.000 SY	_____	_____
0204	628.1104 Erosion Bales	193.000 EACH	_____	_____
0206	628.1504 Silt Fence	1,772.000 LF	_____	_____
0208	628.1520 Silt Fence Maintenance	1,772.000 LF	_____	_____
0210	628.1905 Mobilizations Erosion Control	3.000 EACH	_____	_____
0212	628.1910 Mobilizations Emergency Erosion Control	3.000 EACH	_____	_____
0214	628.2004 Erosion Mat Class I Type B	2,408.000 SY	_____	_____
0216	628.7005 Inlet Protection Type A	1.000 EACH	_____	_____
0218	628.7010 Inlet Protection Type B	7.000 EACH	_____	_____



Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0220	628.7015 Inlet Protection Type C	10.000 EACH	_____.	_____.
0222	628.7504 Temporary Ditch Checks	40.000 LF	_____.	_____.
0224	628.7560 Tracking Pads	1.000 EACH	_____.	_____.
0226	628.7570 Rock Bags	100.000 EACH	_____.	_____.
0228	629.0210 Fertilizer Type B	1.800 CWT	_____.	_____.
0230	630.0120 Seeding Mixture No. 20	53.000 LB	_____.	_____.
0232	630.0200 Seeding Temporary	28.000 LB	_____.	_____.
0234	631.0300 Sod Water	21.600 MGAL	_____.	_____.
0236	631.1000 Sod Lawn	961.000 SY	_____.	_____.
0238	634.0618 Posts Wood 4x6-Inch X 18-FT	15.000 EACH	_____.	_____.
0240	637.2210 Signs Type II Reflective H	134.250 SF	_____.	_____.
0242	637.2215 Signs Type II Reflective H Folding	44.760 SF	_____.	_____.
0244	637.2230 Signs Type II Reflective F	13.000 SF	_____.	_____.
0246	638.2102 Moving Signs Type II	7.000 EACH	_____.	_____.
0248	638.2602 Removing Signs Type II	26.000 EACH	_____.	_____.
0250	638.3000 Removing Small Sign Supports	15.000 EACH	_____.	_____.
0252	643.0300 Traffic Control Drums	22,052.000 DAY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0254	643.0420 Traffic Control Barricades Type III	2,049.000 DAY	_____.	_____.
0256	643.0705 Traffic Control Warning Lights Type A	3,813.000 DAY	_____.	_____.
0258	643.0715 Traffic Control Warning Lights Type C	3,139.000 DAY	_____.	_____.
0260	643.0800 Traffic Control Arrow Boards	301.000 DAY	_____.	_____.
0262	643.0900 Traffic Control Signs	9,564.000 DAY	_____.	_____.
0264	643.0910 Traffic Control Covering Signs Type I	10.000 EACH	_____.	_____.
0266	643.0920 Traffic Control Covering Signs Type II	25.000 EACH	_____.	_____.
0268	643.1050 Traffic Control Signs PCMS	733.000 DAY	_____.	_____.
0270	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0272	645.0111 Geotextile Type DF Schedule A	72.000 SY	_____.	_____.
0274	646.1020 Marking Line Epoxy 4-Inch	2,771.000 LF	_____.	_____.
0276	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	1,097.000 LF	_____.	_____.
0278	646.3545 Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	1,379.000 LF	_____.	_____.
0280	646.5020 Marking Arrow Epoxy	1.000 EACH	_____.	_____.
0282	646.6120 Marking Stop Line Epoxy 18-Inch	86.000 LF	_____.	_____.
0284	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	259.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0286	646.9000 Marking Removal Line 4-Inch	2,339.000 LF	_____.	_____.
0288	646.9300 Marking Removal Special Marking	1.000 EACH	_____.	_____.
0290	649.0150 Temporary Marking Line Removable Tape 4-Inch	20,001.000 LF	_____.	_____.
0292	649.0805 Temporary Marking Stop Line Paint 18-Inch	65.000 LF	_____.	_____.
0294	652.0125 Conduit Rigid Metallic 2-Inch	86.000 LF	_____.	_____.
0296	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	2,281.000 LF	_____.	_____.
0298	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	425.000 LF	_____.	_____.
0300	652.0800 Conduit Loop Detector	552.000 LF	_____.	_____.
0302	653.0135 Pull Boxes Steel 24x36-Inch	3.000 EACH	_____.	_____.
0304	653.0140 Pull Boxes Steel 24x42-Inch	4.000 EACH	_____.	_____.
0306	653.0220 Junction Boxes 18x6x6-Inch	6.000 EACH	_____.	_____.
0308	653.0222 Junction Boxes 18x12x6-Inch	2.000 EACH	_____.	_____.
0310	653.0905 Removing Pull Boxes	3.000 EACH	_____.	_____.
0312	654.0101 Concrete Bases Type 1	1.000 EACH	_____.	_____.
0314	654.0102 Concrete Bases Type 2	2.000 EACH	_____.	_____.
0316	654.0105 Concrete Bases Type 5	4.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0318	654.0113 Concrete Bases Type 13	1.000 EACH	_____.	_____.
0320	655.0230 Cable Traffic Signal 5-14 AWG	532.000 LF	_____.	_____.
0322	655.0240 Cable Traffic Signal 7-14 AWG	125.000 LF	_____.	_____.
0324	655.0260 Cable Traffic Signal 12-14 AWG	661.000 LF	_____.	_____.
0326	655.0320 Cable Type UF 2-10 AWG Grounded	369.000 LF	_____.	_____.
0328	655.0515 Electrical Wire Traffic Signals 10 AWG	841.000 LF	_____.	_____.
0330	655.0610 Electrical Wire Lighting 12 AWG	822.000 LF	_____.	_____.
0332	655.0625 Electrical Wire Lighting 6 AWG	5,039.000 LF	_____.	_____.
0334	655.0700 Loop Detector Lead In Cable	1,194.000 LF	_____.	_____.
0336	655.0800 Loop Detector Wire	1,716.000 LF	_____.	_____.
0338	655.0900 Traffic Signal EVP Detector Cable	328.000 LF	_____.	_____.
0340	657.0100 Pedestal Bases	1.000 EACH	_____.	_____.
0342	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	2.000 EACH	_____.	_____.
0344	657.0322 Poles Type 5-Aluminum	2.000 EACH	_____.	_____.
0346	657.0405 Traffic Signal Standards Aluminum 3.5-FT	1.000 EACH	_____.	_____.
0348	657.0610 Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	2.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0350	657.1360 Install Poles Type 13	1.000 EACH	_____.	_____.
0352	657.1540 Install Monotube Arms 40-FT	1.000 EACH	_____.	_____.
0354	657.1815 Install Luminaire Arms Steel 15-FT	2.000 EACH	_____.	_____.
0356	657.6005 Anchor Assemblies Light Poles on Structures	2.000 EACH	_____.	_____.
0358	658.5069 Signal Mounting Hardware (location) 3001. IH 94 EB Off Ramp & STH 100	LS	LUMP SUM	_____.
0360	659.1130 Luminaires Utility LED D	2.000 EACH	_____.	_____.
0362	661.0200 Temporary Traffic Signals for Intersections (location) 3001. IH 94 EB Off Ramp & STH 100	LS	LUMP SUM	_____.
0364	661.0300 Generators	4.000 DAY	_____.	_____.
0366	690.0150 Sawing Asphalt	142.000 LF	_____.	_____.
0368	690.0250 Sawing Concrete	3,219.000 LF	_____.	_____.
0370	715.0415 Incentive Strength Concrete Pavement	755.000 DOL	1.00000	755.00
0372	715.0502 Incentive Strength Concrete Structures	1,368.000 DOL	1.00000	1,368.00
0374	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	1,100.000 HRS	5.00000	5,500.00
0376	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	1,800.000 HRS	5.00000	9,000.00
0378	SPV.0035 Special 4000. HPC Masonry Structures	650.000 CY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20180213007 Project(s): 2030-14-70

Federal ID(s): WISC 2018086

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0380	SPV.0035 Special 8001. Backfill Slurry	98.000 CY	_____.	_____.
0382	SPV.0060 Special 0162. Concrete Barrier Type S42 End Anchor	1.000 EACH	_____.	_____.
0384	SPV.0060 Special 0403. Traffic Control Local Road Lane Closures	20.000 EACH	_____.	_____.
0386	SPV.0060 Special 1019. Relocating Light Poles Arms and Luminaires	4.000 EACH	_____.	_____.
0388	SPV.0060 Special 3001. Concrete Bases Type 1 Spread Footing	1.000 EACH	_____.	_____.
0390	SPV.0060 Special 3002. Install Salvaged Pedestal Bases	1.000 EACH	_____.	_____.
0392	SPV.0060 Special 3003. Install Salvaged Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	2.000 EACH	_____.	_____.
0394	SPV.0060 Special 3004. Install Salvaged Poles Type 2	1.000 EACH	_____.	_____.
0396	SPV.0060 Special 3005. Install Salvaged Poles Type 3	1.000 EACH	_____.	_____.
0398	SPV.0060 Special 3006. Install Salvaged Traffic Signal Standards Aluminum 10-Ft	1.000 EACH	_____.	_____.
0400	SPV.0060 Special 3007. Install Salvaged Luminaire Arms Single Member 4-Inch Clamp 6-Ft	2.000 EACH	_____.	_____.
0402	SPV.0060 Special 3008. Install Salvaged Pedestrian Push Buttons	3.000 EACH	_____.	_____.
0404	SPV.0060 Special 3009. Install Salvaged Luminaires Utility LED C	4.000 EACH	_____.	_____.



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0406	SPV.0060 Special 3010. Install Salvaged Traffic Signal Head 3-12 Inch Vertical	6.000 EACH	_____.	_____.
0408	SPV.0060 Special 3011. Install Salvaged Pedestrian Signal Head 16-Inch	2.000 EACH	_____.	_____.
0410	SPV.0060 Special 5102. MMSD Sanitary Manhole Reconstruct	1.000 EACH	_____.	_____.
0412	SPV.0060 Special 5200. Adjusting Sanitary Manholes	1.000 EACH	_____.	_____.
0414	SPV.0075 Special 0002. Pavement Cleanup Project 2030-14-70	100.000 HRS	_____.	_____.
0416	SPV.0075 Special 4200. Obstructions Drilled Foundation Shaft	4.000 HRS	_____.	_____.
0418	SPV.0085 Special 0900. ICE HPC Hot Weather Concreting	4,470.000 LB	_____.	_____.
0420	SPV.0090 Special 0410. Concrete Barrier Temporary Precast Anchoring	806.000 LF	_____.	_____.
0422	SPV.0090 Special 0412. Concrete Barrier Temporary Precast Anchored on Bridge	493.000 LF	_____.	_____.
0424	SPV.0090 Special 1025. Conduit Special HDPE 2-Inch	105.000 LF	_____.	_____.
0426	SPV.0090 Special 3001. Cable Type UF 2-14 AWG	328.000 LF	_____.	_____.
0428	SPV.0090 Special 3002. Install Camera Power Cable	303.000 LF	_____.	_____.
0430	SPV.0090 Special 3003. Install Cat-5E Cable	315.000 LF	_____.	_____.



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0432	SPV.0090 Special 4400. Drilled Shaft Foundation 60-Inch Diameter	62.000 LF	_____.	_____.
0434	SPV.0105 Special 0001. Survey Project 2030-14-70	LS	LUMP SUM	_____.
0436	SPV.0105 Special 3001. Transport & Install State Furn EVP Detector Heads IH 94 EB Off Ramp & STH	LS	LUMP SUM	_____.
0438	SPV.0105 Special 3002. Transport & Install State Furn Radar Det Sys IH 94 EB Off Ramp & STH 100	LS	LUMP SUM	_____.
0440	SPV.0105 Special 3003. Transport & Install State Furn Adaptive Traffic Signal Equip IH 94 EB Off	LS	LUMP SUM	_____.
0442	SPV.0105 Special 3004. Covering Traffic Signal Equipment	LS	LUMP SUM	_____.
0444	SPV.0105 Special 3005. Temporary EVP System IH 94 EB Off Ramp & STH 100	LS	LUMP SUM	_____.
0446	SPV.0120 Special 0001. Water For Seeded Areas	21.000 MGAL	_____.	_____.
0448	SPV.0135 Special 0001. Vibration Monitoring	5.000 MON	_____.	_____.
0450	SPV.0165 Special 4700. Longitudinal Grooving Bridge Deck **P**	15,046.000 SF	_____.	_____.
0452	SPV.0180 Special 0180. Topsoil Special	2,594.000 SY	_____.	_____.
0454	SPV.0180 Special 4750. Clean Abutment Seats	16.000 SY	_____.	_____.
0456	SPV.0195 Special 0700. Management of Solid Waste	1,095.000 TON	_____.	_____.



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0458	204.9060.S Removing (item description) 2000. Communication Vault	2.000 EACH	_____.	_____.
0460	415.1150.S Concrete Pavement Fast Track (inch) 0001. 8-Inch	416.000 SY	_____.	_____.
0462	415.1150.S Concrete Pavement Fast Track (inch) 0002. 9-Inch	192.000 SY	_____.	_____.
0464	460.6223 HMA Pavement 3 MT 58-28 S	274.000 TON	_____.	_____.
0466	460.6224 HMA Pavement 4 MT 58-28 S	245.000 TON	_____.	_____.
0468	502.2000 Compression Joint Sealer Preformed Elastomeric (width) 0001. 2 1/4-Inch	163.000 LF	_____.	_____.
0470	652.0700.S Install Conduit into Existing Item	2.000 EACH	_____.	_____.
0472	655.0510 Electrical Wire Traffic Signals 12 AWG	375.000 LF	_____.	_____.
0474	673.0105 Communication Vault Type 1	1.000 EACH	_____.	_____.
0476	SPV.0060 Special 0400. Traffic Control Close-Open Freeway Exit Ramp	1.000 EACH	_____.	_____.
0478	SPV.0090 Special 4400. Fence Decorative Bridge	170.000 LF	_____.	_____.
0480	SPV.0090 Special 4405. Fence Decorative Wing	47.000 LF	_____.	_____.
0482	SPV.0090 Special 5100. MMSD Sanitary Sewer Televising	1,692.000 LF	_____.	_____.

Section: 0001

Total: _____.

Total Bid: _____.

