

ADDENDUM NO. 2
TO THE
DRAWINGS AND SPECIFICATIONS
FOR THE
17TH Street Reconstruction

Issued From: The City of Bloomington
Planning and Transportation Department
Post Office Box 100
401 North Morton Street, Suite #130
Bloomington, Indiana 47402

Issue Date: January 29th, 2019

Letting Date: **February 1st, 2019**

This Addendum No. 2 to the drawings and specifications shall supplement, amend and become a part of the Bid documents, plans, and specifications for the 17th Street Reconstruction. All Bids and construction contracts shall be based on these modifications to the original contract documents. Bidders shall acknowledge receipt of this Addendum on the Bid Form. Failure to do so may subject the Bidder to disqualification.

Item No. 1: Bid Letting Date

The bid letting for this project is being changed to Friday, February 1st at 11:00 a.m. Bids are due by 11:00 a.m. in the City's Planning & Transportation Department. Bids will be opened and read aloud February 1st at 11:00 a.m. in the McCloskey Conference Room, City Hall.

Item No. 2: Clarification Addendum No. 1 Item 11 Storm Sewer

The pipe material for Storm Sewer Structure Nos. 62, 70 and 71 shall be a single piece of C-900 pipe with no joints at each location. The cost of the pipe shall be paid for under the item "Pipe, Type 2, Circular, 12 In." per the "Proposal Schedule of Items".

Item No. 3: Clarification Addendum No. 1 Item 15 City of Bloomington Utilities (CBU)

The Contractor is advised that existing private water services that will remain under the retaining walls shall have a 4 inch C-900 pipe casing slid over the existing service lines on the property owner's side of the meter, prior to connection to the new water meters. The casing pipe under retaining wall nos. 2-5 shall be from the retaining wall shear key and extend northward for a minimum distant of 15 feet to allow for future maintenance without disturbing the multi-use path and retaining walls. The Casing under retaining wall no. 7 shall be from the edge of pavement and extend southward for minimum distance of 15 feet to allow for future maintenance without disturbing the sidewalk and retaining wall. The casing pipe shall have a boot at each end to prevent soil infiltration.

The Contractor is advised that existing private sanitary sewer laterals that will remain under the retaining walls shall have a 12 inch C-900 pipe casing set adjacent to the existing sanitary sewer laterals on the sewer main downstream side of the existing lateral. The casing pipe under retaining wall nos. 2-5 shall be from the retaining wall shear key and extend northward for a minimum distant of 15 feet to allow for future maintenance without disturbing the multi-use path and retaining walls. The Casing under retaining wall no. 7 shall be from the edge of pavement and extend southward for minimum distance of 15 feet to allow for future maintenance without disturbing the sidewalk and retaining wall. The casing pipes are to be set at a grade and depth to match that of the existing sanitary lateral. The casing pipe is to be capped at each end.

Below is a summary of the locations:

Wall No. 2 – Two (2) private water services and One (1) private sanitary sewer lateral

Wall No. 3 – One (1) private water services and One (1) private sanitary sewer lateral

Wall No. 4 – One (1) private water services and One (1) private sanitary sewer lateral

Wall No. 5 – Two (2) private water services and One (1) private sanitary sewer lateral

Wall No. 7 – One (1) private water services and One (1) private sanitary sewer lateral

The items "Casing Pipe, 4 In." and "Casing Pipe, 12 In." will be added to the contract. The updated "Proposal Schedule of Items" has been added per this addendum.

Item No. 4: Clarification Addendum No. 1 Item 16 Questions and Answers

(Q) Will testing of the new sanitary manholes that get installed on live lines be waived?

(A) No pressure testing will be required. The Contractor shall contact CBU in order for their inspector to perform visual inspection *while* the modification is being performed to help ensure proper re-sealing of these manholes.

(Q) Cover height seems to be concern on the 24" valves, can you please specify if a beveled tap valve will be required?

(A) CBU will make a field determination once the existing main has been exposed, for bidding purposes the Contractor shall assume that the ~~beveled tap~~ **horizontal tapping** valve will be required.

(Q) What, if any materials will be provided by the city for the new water services?

(A) Meters, pits and yokes will be purchased from CBU. The cost for these items shall be submitted to the City of Bloomington for reimbursement at no mark-up. The Contractor shall provide all other materials required for the new water services.

(Q) Who is responsible for the taps for the 24", 12", 8" and service connections?

(A) CBU shall perform taps only for main to main taps on mains 12 inch or less in diameter. The Contractor shall provide all materials including but not limited to sleeves and tapping gate valves.

The Contractor shall provide all materials and perform the main to main taps on water mains larger than 12 inch in diameter. The CBU inspector is to be present while the taps are being made.

CBU shall make service line taps from existing mains and install the new service line to new pit location, install new meter yoke/meter, leaving the pit/ring/lid for contractor to set to grade. CBU will also retire the existing service at the main. The cost of these CBU services will be paid by the contractor as detailed in Item 5 below. The contractor shall be responsible for exposing the existing main and existing service tap, excavation of the trench, exposing the service line, connection of the service line to the meter on the property owner side of the meter, and all backfill. This work by the contractor shall be paid for under the item "Water Meter and Service, Existing Main".

New water service connections from the new 24 inch main shall be made by the Contractor. CBU shall install new meter yoke meter and provide pit/ring/lid for contractor to set to grade. The cost of these CBU services will be paid by the contractor as detailed in Item 5 below. The Contractor shall be responsible for tapping the new main, installing the service line to the new meter pit location, excavating for the new meter yoke and pit, connection of the service line to the meter on the property owner side of the meter and all backfill. This work by the contractor shall be paid for under the item "Water Meter and Service, New Main".

The existing 24 inch water main is to have a 6 inch tap for the new fire hydrant at Sta. 27+72 Line "PR-B". CBU will perform the tap of the existing main. The Contractor is responsible for providing all materials, equipment and labor to install the water line and fire hydrant.

The updated "Proposal Schedule of Items" has been added per this addendum.

(Q) Will the modified manholes need to be pressure tested?

(A) No pressure testing will be required. The Contractor shall contact CBU in order for their inspector to perform visual inspection *while* the modification is being performed to help ensure proper re-sealing of these manholes.

Item No. 5: CBU Fees and Costs

All fees, materials purchased from CBU, and any time and material expenses paid to CBU for their work on the project shall be submitted to the City for Reimbursement at no mark-up. An estimated amount for the expenses has been allocated in the item "CBU Fees and Costs". The updated "Proposal Schedule of Items" has been added per this addendum.

Item No. 6: Retaining Walls


The quantity of Retaining wall has been revised to exclude the area of coping. The updated "Proposal Schedule of Items" has been added per this addendum.

Item No. 7: Coping

The item "Coping, Cast-In-Place" to be paid per lineal foot has been added to the contract. The work shall be in accordance with the details as shown on the plans. The Railing Detail on sheet 65 of the plans has been revised to eliminate the embedding of the base plate and to include embedded hooked anchors, in order to eliminate the need for field welding. The cost of the embedded hooked anchors shall not be paid for separately but shall be included in the per lineal foot cost of "Coping, Cast-In-Place". A revised plan sheet and the updated "Proposal Schedule of Items" have been added per this addendum.

Item No. 8: Railing

The railing material shall be as called out on the plans. The Railing Detail on sheet 65 of the plans has been revised to eliminate the embedding of the base plate and to include embedded hooked anchors into the cast in place coping, in order to eliminate the need for field welding.

	<p>CERTIFIED BY: </p> <p>NEIL KOPPER, PE CITY OF BLOOMINGTON STATE OF INDIANA</p>
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Acknowledge receipt of the addendum by submitting a signed copy with your bid proposal.

RECEIVED BY: CONTRACTOR (FIRM AND ADDRESS)

SIGNATURE: _____ **DATE:** _____

PRINTED NAME: _____

TITLE: _____



**City of Bloomington
Planning and Transportation Department**

Letting Date: February 1, 2019

Proposal Schedule of Items (Unit Prices)

Project Title : 17th Street Reconstruction

LINE	INDOT CODE	DESCRIPTION	Approximate Quantity and Units	UNITS	UNIT PRICE	BID AMOUNT
001	105-06845	CONSTRUCTION ENGINEERING	1.00	LS	-	-
002	110-01001	MOBILIZATION AND DEMOBILIZATION	1.00	LS	-	-
003	201-02245	TREE 6 IN., REMOVE	6.00	EACH	-	-
004	201-02250	TREE 10 IN., REMOVE	12.00	EACH	-	-
005	201-02255	TREE 18 IN., REMOVE	23.00	EACH	-	-
006	201-02260	TREE 30 IN., REMOVE	7.00	EACH	-	-
007	201-02265	TREE 48 IN., REMOVE	4.00	EACH	-	-
008	201-52370	CLEARING RIGHT OF WAY	1.00	LS	-	-
009	202-02240	PAVEMENT, REMOVAL	158.00	SYS	-	-
0010	202-02278	CURB, CONCRETE, REMOVE	588.00	LFT	-	-
0011	202-02279	CURB & GUTTER, REMOVE	169.00	LFT	-	-
0012	202-52710	SIDEWALK, CONCRETE, REMOVE	900.00	SYS	-	-
0013	202-91385	INLET, REMOVE	5.00	EACH	-	-
0014	202-96133	PIPE, REMOVE	330.00	LFT	-	-
0015	203-02000	EXCAVATION, COMMON	6841.00	CYS	-	-
0016	203-02010	EXCAVATION, ROCK	375.00	CYS	-	-
0017	205-12108	STORM WATER MANAGEMENT BUDGET	46677.50	DOL	\$1.00	\$46,677.50
0018	205-12111	SWOCP PREPARATION AND IMPLEMENTATION, LEVEL 1	1.00	LS	-	-
0019	206-51215	EXCAVATION, X	1688.00	CYS	-	-
0020	207-08264	SUBGRADE TREATMENT, TYPE II	1333.00	SYS	-	-
0021	207-08266	SUBGRADE TREATMENT, TYPE III	1274.00	SYS	-	-
0022	207-09935	SUBGRADE TREATMENT, TYPE IB	6335.00	SYS	-	-
0023	211-09264	STRUCTURAL BACKFILL, TYPE 1	3073.00	CYS	-	-
0024	301-07448	COMPACTED AGGREGATE, NO. 53, BASE	1512.00	TON	-	-
0025	301-07449	COMPACTED AGGREGATE, NO. 73	98.00	TON	-	-
0026	306-08034	MILLING, ASPHALT, 1 1/2 IN.	181.00	SYS	-	-
0027	401-06264	PROFILOGRAPH, HMA	1.00	LS	-	-
0028	401-07321	QC/QA-HMA, 2, 64, SURFACE, 9.5 mm	428.00	TON	-	-
0029	401-07390	QC/QA-HMA, 2, 64, INTERMEDIATE, 19.0 mm	686.00	TON	-	-
0030	401-07407	QC/QA-HMA, 2, 64, BASE, 25.0 mm	819.00	TON	-	-
0031	401-10258	JOINT ADHESIVE, SURFACE	1836.00	LFT	-	-
0032	401-10259	JOINT ADHESIVE, INTERMEDIATE	1836.00	LFT	-	-
0033	401-11785	LIQUID ASPHALT SEALANT	1836.00	LFT	-	-
0034	406-05520	ASPHALT FOR TACK COAT	4.30	TON	-	-
0035		PCCP, PLAIN, VARIABLE DEPTH	55.00	SYS	-	-
0036	604-05528	HMA FOR SIDEWALK	319.00	TON	-	-
0037	604-06070	SIDEWALK, CONCRETE	1126.00	SYS	-	-
0038	604-08086	CURB RAMP, CONCRETE	115.00	SYS	-	-
0039	604-12083	DETECTABLE WARNING SURFACES	24.00	SYS	-	-
0040	604-92237	HAND RAIL, STEEL	1122.00	LFT	-	-
0041	605-06090	CURB, INTEGRAL, CONCRETE	28.00	LFT	-	-
0042	605-06120	CURB, CONCRETE	358.00	LFT	-	-
0043	605-06155	CURB AND GUTTER, CONCRETE, MODIFIED	2916.00	LFT	-	-
0044	605-94811	CURB TURNOUT	1.00	EACH	-	-
0045	610-07487	HMA FOR APPROACHES, TYPE B	211.00	TON	-	-
0046	610-08446	PCCP FOR APPROACHES, 6 IN	624.00	SYS	-	-
0047	610-09108	PCCP FOR APPROACHES, 9 IN	177.00	SYS	-	-
0048	611-06497	MAILBOX ASSEMBLY, SINGLE	18.00	EACH	-	-

0049	615-06505	MONUMENT, TYPE B	2.00	EACH	-	-
0050	615-06490	RIGHT-OF-WAY MARKER	33.00	EACH	-	-
0051	616-06405	RIPRAP, REVETMENT	15.00	TON	-	-
0052	621-06567	WATER	22.00	KGAL	-	-
0053	621-06575	SODDING, NURSERY	6033.00	SYS	-	-
0054	621-98038	MULCH HARDWOOD SHREDDED BARK	3.00	CYS	-	-
0055	622-05638	PLANT, DECIDUOUS SHRUB	8.00	EACH	-	-
0056	622-05649	PLANT, DECIDUOUS TREE, 1.25 IN. TO 2 IN.	61.00	EACH	-	-
0057	628-09401	FIELD OFFICE, A	9.00	MOS	-	-
0058	702-51015	CONCRETE, B, FOOTINGS	561.00	CYS	-	-
0059	703-06028	REINFORCING BARS	46778.00	LBS	-	-
0060	714-05562	RETAINING WALL	5990.00	SFT	-	-
0061	715-05048	PIPE, TYPE 4, CIRCULAR, 6 IN	554.00	LFT	-	-
0062	715-05149	PIPE, TYPE 2, CIRCULAR, 12 IN	2461.00	LFT	-	-
0063	715-05151	PIPE, TYPE 2, CIRCULAR, 15 IN	1512.00	LFT	-	-
0064	715-05152	PIPE, TYPE 2, CIRCULAR, 18 IN	76.00	LFT	-	-
0065	715-46000	PIPE END SECTION, DIAMETER 12 IN.	1.00	EACH	-	-
0066	715-46005	PIPE END SECTION, DIAMETER 15 IN.	1.00	EACH	-	-
0067	718-52610	AGGREGATE FOR UNDERDRAINS	456.00	CYS	-	-
0068	718-99153	GEOTEXTILES FOR UNDERDRAIN	56.00	SYS	-	-
0069	720-02442	PIPE PLUG EXIST.	4.00	EACH	-	-
0070	720-44000	CASTING, ADJUST TO GRADE, STORM	2.00	EACH	-	-
0071	720-45005	INLET, A2	1.00	EACH	-	-
0072	720-45030	INLET, E7	2.00	EACH	-	-
0073	720-45045	INLET, J10	7.00	EACH	-	-
0074	720-45235	CATCH BASIN, E7	2.00	EACH	-	-
0075	720-45250	CATCH BASIN, K10	17.00	EACH	-	-
0076	720-45410	MANHOLE, C4	26.00	EACH	-	-
0077	720-91352	CATCH BASIN, F7	2.00	EACH	-	-
0078	720-98687	CATCH BASIN, M10	10.00	EACH	-	-
0079		AQUA-SWIRL, A-3 (OR EQUAL)	2.00	EACH	-	-
0080		AQUA-SWIRL, A-4 (OR EQUAL)	2.00	EACH	-	-
0081	801-04308	ROAD CLOSURE SIGN ASSEMBLY	5.00	EACH	-	-
0082	801-06586	CONSTRUCTION SIGN, A	8.00	EACH	-	-
0083	801-06625	DETOUR ROUTE MARKER ASSEMBLY	19.00	EACH	-	-
0084	801-06775	MAINTAINING TRAFFIC	1.00	LS	-	-
0085	801-07119	BARRICADE, TYPE III-B	15.00	EACH	-	-
0086	802-04089	SIGN, SHEET, REMOVE	1.00	EACH	-	-
0087	802-05701	SIGN POST, SQUARE TYPE 1 REINFORCED ANCHOR BASE	96.00	LFT	-	-
0088	802-07059	SIGN, SHEET, AND SUPPORTS, REMOVE	15.00	EACH	-	-
0089	802-07060	SIGN, SHEET, RELOCATE	1.00	EACH	-	-
0090	802-09838	SIGN, SHEET WITH LEGEND, 0.080 IN. THICKNESS	69.75	SFT	-	-
0091	802-09840	SIGN, SHEET WITH LEGEND, 0.100 IN. THICKNESS	52.54	SFT	-	-
0092	808-03439	TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, 24 IN.	106.00	LFT	-	-
0093	808-06609	PAVEMENT MESSAGE MARKING, CHEVRON	2.00	EACH	-	-
0094	808-75245	LINE, THERMOPLASTIC, SOLID, YELLOW, 4 IN.	3593.00	LFT	-	-
0095	808-75297	TRANSVERSE MARKING, THERMOPLASTIC, STOP LINE, WHITE 24 IN.	40.00	LFT	-	-
0096	808-75300	TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE 6 IN.	155.00	LFT	-	-
0097	808-75998	SNOWPLOWABLE RAISED PAVEMENT MARKER	26.00	EACH	-	-
UTILITY ITEMS						
0098		GATE VALVE WITH VALVE BOX, DUCTILE IRON, 6 IN.	2.00	EACH	-	-
0099		GATE TAPPING VALVE, WITH BOX, DUCTILE IRON, 8 IN.	2.00	EACH	-	-
0100		GATE TAPPING VALVE, WITH BOX, DUCTILE IRON, 12 IN.	1.00	EACH	-	-
0101		GATE TAPPING VALVE, WITH BOX, DUCTILE IRON, 24 IN.	2.00	EACH	-	-
0102	720-03194	SANITARY MANHOLE (CBU STANDARD DETAIL 1)	6.00	EACH	-	-

0103	720-03194	SANITARY MANHOLE MODIFIED (DETAIL 1)	1.00	EACH	-	-
0104	720-03194	SANITARY MANHOLE MODIFIED (DETAILS 2 & 3)	2.00	EACH	-	-
0105	715-05711	PIPE, SANITARY SEWER 6 IN.	28.00	LFT	-	-
0106	715-05408	PIPE, SANITARY SEWER 8 IN.	80.00	LFT	-	-
0107	715-05411	PIPE, SANITARY SEWER 12 IN.	248.00	LFT	-	-
0108		WATER MAIN, DUCTILE IRON, 24 IN.	860.00	LFT	-	-
0109	715-08250	WATER MAIN, DUCTILE IRON, 12 IN.	28.00	LFT	-	-
0110	715-11571	WATER MAIN, DUCTILE IRON, 8 IN.	56.00	LFT	-	-
0111	715-94780	WATER MAIN, DUCTILE IRON, 6 IN.	56.00	LFT	-	-
0112	720-02442	PIPE-PLUG-EXIST.	1.00	EACH	-	-
0113	720-91742	FIRE HYDRANT	3.00	EACH	-	-
0114	715-04994	WATER METER AND SERVICE (CBU STANDARD DETAIL 10)	19.00	EACH	-	-
0115	621-90853	TAPPING SLEEVE, 24 IN.	2.00	EACH	-	-
0116	621-90853	TAPPING SLEEVE, 6 IN.	1.00	EACH	-	-
0117	621-90853	TAPPING SLEEVE, 8 IN.	2.00	EACH	-	-
0118	621-90853	TAPPING SLEEVE, 12 IN.	1.00	EACH	-	-
0119		LINE STOP, 24 IN.	2.00	EACH	-	-
0120		LINE STOP, 12 IN.	1.00	EACH	-	-
0121		LINE STOP, 8 IN.	2.00	EACH	-	-
0122	202-97009	FIRE HYDRANT ASSEMBLY, REMOVE	1.00	EACH	-	-
0123	202-93047	MANHOLE, REMOVE	2.00	EACH	-	-
0124	202-96133	PIPE, REMOVE	791.00	LFT	-	-
0125	202-02637	PIPE, ABANDON AND GROUT FILL	482.00	LFT	-	-
LIGHTING ITEMS						
0126	807-02191	HANDHOLE, LIGHTING	22.00	EACH	-	-
0127	807-12217	LIGHT-POLE FOUNDATION	22.00	EACH	-	-
0128	805-11813	CONDUIT, PVC, ELECTRICAL GRADE, 2"	2720.00	LFT	-	-
FIBER OPTIC ITEMS						
0129		MANHOLE, FIBER OPTIC	10.00	EACH	-	-
0130	805-95568	CONDUIT, PVC, 4 IN.	5099.00	LFT	-	-
ADDENDUM NO. 1						
0131		RELOCATE NEIGHBORHOOD SIGN	1.00	LS	-	-
0132	109-08440	QUALITY ADJUSTMENTS, HMA		DOL	\$1.00	-
0133	109-08443	QUALITY ADJUSTMENTS, TEMPORARY TRAFFIC CONTROL DEVICES		DOL	\$1.00	-
0134	621-06570	TOPSOIL	500.00	CYS	-	-
0135	715-98961	FORCE MAIN	328.00	LFT	-	-
0136		GATE TAPPING VALVE, WITH BOX, DUCTILE IRON, 6 IN.	1.00	EACH	-	-
0137		GATE VALVE, WITH BOX, DUCTILE IRON, 8 IN.	2.00	EACH	-	-
0138		GATE VALVE, WITH BOX, DUCTILE IRON, 12 IN.	1.00	EACH	-	-
0137		SPLIT-CASING, 4"	105.00	LFT	-	-
0138		SPLIT-CASING, 12"	75.00	LFT	-	-
0141	720-03194	SANITARY MANHOLE MODIFIED	1.00	EACH	-	-
ADDENDUM NO. 2						
0142		COPING, CAST-IN-PLACE	1166.50	LFT	-	-
0143		CBU, FEES AND COSTS (REIMBURSABLE)	1.00	LS	\$13,500.00	\$13,500.00
0144	715-04994	WATER METER AND SERVICE, EXISTING MAIN (CBU STANDARD DETAIL 10)	17.00	EACH	-	-
0145	715-04994	WATER METER AND SERVICE, NEW MAIN (CBU STANDARD DETAIL 10)	2.00	EACH	-	-
0146		CASING PIPE, 4 In.	105.00	LFT	-	-
0147		CASING PIPE, 12 In.	75.00	LFT	-	-

TOTAL PROJECT BID:	-	-
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UTILITIES

CABLE TV: Comcast Central Indiana
1600 West Vernal Pike
Bloomington, IN 47404
Attn: Scott Templeton
scott.templeton@cable.comcast.com
Tel. 812-822-3262

GAS: Vectren Energy Delivery
4324 Middle Road
Columbus, IN 47203-1829
Attn: Christopher Baldwin
cbaldwin@vectren.com
Tel. 812-371-8854

ELECTRIC: Duke Energy Distribution
1619 West Deffenbaugh Street
Kokomo, IN 46902
Attn: Connie Maus
Connie.maus@duke-energy.com

ELECTRIC: Duke Energy Transmission
1000 East Main Street
Plainfield, IN 46168
Attn: Jeff Fields
jeff.fields@duke-energy.com

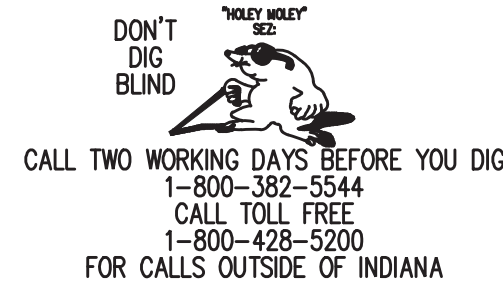
TRAFFIC SIGNS & PAVEMENT MARKINGS:
City of Bloomington Street Department
1981 S. Henderson Street
Bloomington, IN 47401
Attn: Mike Stinson 812-349-3450
stinsonm@bloomington.in.gov

COMMUNICATIONS: AT&T Distribution
4517 Indiana Bell Court
Bloomington, IN 47408
Attn: Brent McCabe
bm1792@att.com
Tel. 812-334-4521

WATER & SEWER: City of Bloomington Utilities Dept.
600 East Miller Drive
Bloomington, IN 47401
Attn: Jane Fleig
fleigj@bloomington.in.gov
Tel. 812-349-3631

FIBER OPTIC: US Signal
201 Ionia Avenue, SW
Grand Rapids, MI 49503
Attn: Rick Andricks
randricks@tkns.net
Tel. 614-483-6350

FIBER OPTIC: Zayo Fiber Solutions
9209 Castleton Drive
Indianapolis, IN 46256
Attn: Waylon Higgins
waylon.higgins@zayo.com
Tel. 765-341-1199



GENERAL NOTES

- ** All earth shoulders, median areas, and cut and fill slopes shall be plain or mulched seeded except where sodding is specified.
- The paper relocation will be cross sectioned by the Engineer before construction.
- ** Proposed sidewalk and multi-use path to be constructed with a 1.5% cross slope and shall not exceed 2%.

** REPRESENTS GENERAL NOTE REQUIRED

LEGEND

- (A) Variable Depth Plain PCCP on 3" Compacted Aggregate, No. 53, Base on Subgrade Treatment, Type IB
- (C) PCCP for Approaches, 6 in. on Subgrade Treatment, Type II
- (C1) PCCP for Approaches, 9 in. on Subgrade Treatment, Type II
- (D) 550 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface Type B on
385 #/syd HMA Intermediate Type B on
Subgrade Treatment, Type II
- (D1) 1320 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface Type B on
275 #/syd HMA Intermediate Type B on
880 #/syd HMA Base Type B on
Subgrade Treatment, Type II
- (F) Concrete Sidewalk, 4 In. on
4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk
140 #/syd HMA Surface Type A on
220 #/syd HMA Intermediate Type A on
6" Compacted Aggregate, No. 53, Base on
Subgrade Treatment, Type III
- (K) Full Depth HMA Pavement
165 #/syd QC-QA HMA, 2, 64, Surface, 9.5 mm on
275 #/syd QC-QA HMA, 2, 64, Intermediate, 19.0 mm on
330 #/syd QC-QA HMA, 2, 64, Base, 25.0 mm on
3" Compacted Aggregate, No. 53, Base on
Subgrade Treatment, Type IB
- (M) Milling, Asphalt, 1 1/2 in.
- (N) 6" Compacted Aggregate for Surface, No. 73
- (R) 165#/syd QC-QA HMA, 2, 70, Surface, 9.5 mm
- (CR) Concrete Curb Ramp
- (13) Concrete Curb
- (15) Combined Concrete Curb and Gutter, Modified
- (16) Concrete Curb and Gutter, Turnout
- (17) Integral Curb
- (26) Sodding, Nursery
- (31) Line, Thermoplastic, Solid, Yellow, 4 in.
- (32) Transverse Markings, Thermoplastic, Stop Bar, White, 24 in.
- (33) Transverse Markings, Thermoplastic, Crosswalk Line, 6 in.
- (34) Transverse Markings, Multi-Component, Crosswalk Line, 24 in.
- (35) Pavement Message Markings, Multi-Component, Chevron
- T Ground Mounted Sheet Sign
- ◆ Snowplowable Raised Pavement Marker, Two-Way

INDEX

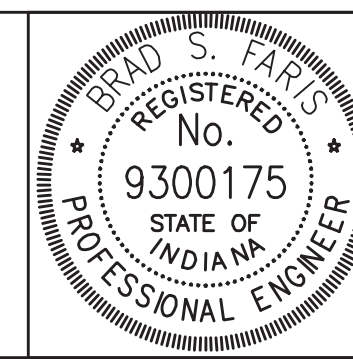
SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	INDEX AND GENERAL NOTES
3-6	TYPICAL SECTIONS
7-8	PLAT NO. 1
9	GEOMETRIC TIE UP SHEET
10	MAINTENANCE OF TRAFFIC
11-21	PLAN & PROFILE SHEETS
22	RAISED CROSSWALK DETAIL
23	SPOT ELEVATION DETAIL
24-25	CURB RAMP DETAILS
26-28	DRIVEWAY DETAILS
29	DRAINAGE STRUCTURE DETAILS
30-35	EROSION CONTROL DETAILS
36-41	RETAINING WALL DETAILS
42-44	SIGNING & MARKING DETAILS
45	UTILITY GENERAL NOTES
46-51	UTILITY PLAN & PROFILES
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55-60	LANDSCAPE PLANS & DETAILS
61-65	LANDSCAPE RETAINING WALL DETAILS
66-71	TREE REMOVAL PLANS
72	MISCELLANEOUS TABLES
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75	SIGNING & MARKING TABLES
76	APPROACH TABLE
77	STRUCTURE DATA TABLE
78-79	PIPE MATERIAL TABLES
80-100	CROSS SECTIONS

REVISIONS

SHEET NO.	DATE	REVISED
68 & 69	01/23/2019	Rev. 01 - Tree removal quantities were updated
42 & 75	01/23/2019	Rev. 01 - Pavement marking quantities were updated
46-49, 54	01/23/2019	Rev. 01 - Light Pole Foundations have been deleted
41-1	01/23/2019	Rev. 01 - Sheet added to plans - Relocated Sign Foundation
17,18 & 77	01/23/2019	Rev. 01 - Structures changed
43 & 44	01/23/2019	Rev. 01 - Deleted Sign Shop Drawings
2 Thru 6	01/23/2019	Rev. 01 - Revised Legend Item K, Surface and Intermediate Layers
12	01/23/2019	Rev. 01 - Revised Earthwork Summary
55 Thru 59	01/23/2019	Rev. 01 - Revised Tree Planting Plan
48	01/23/2019	Rev. 01 - Added Remove Pipe Note & Plug Existing Pipe Note
52 & 53	01/23/2019	Rev. 01 - Revised to clarify Gate Tapping Valves and Gate Valves
65	01/28/2019	Rev. 02 - Revised Coping/Railing Anchoring System

PLOTTED: Monday, January 28, 2019 5:10:45 PM

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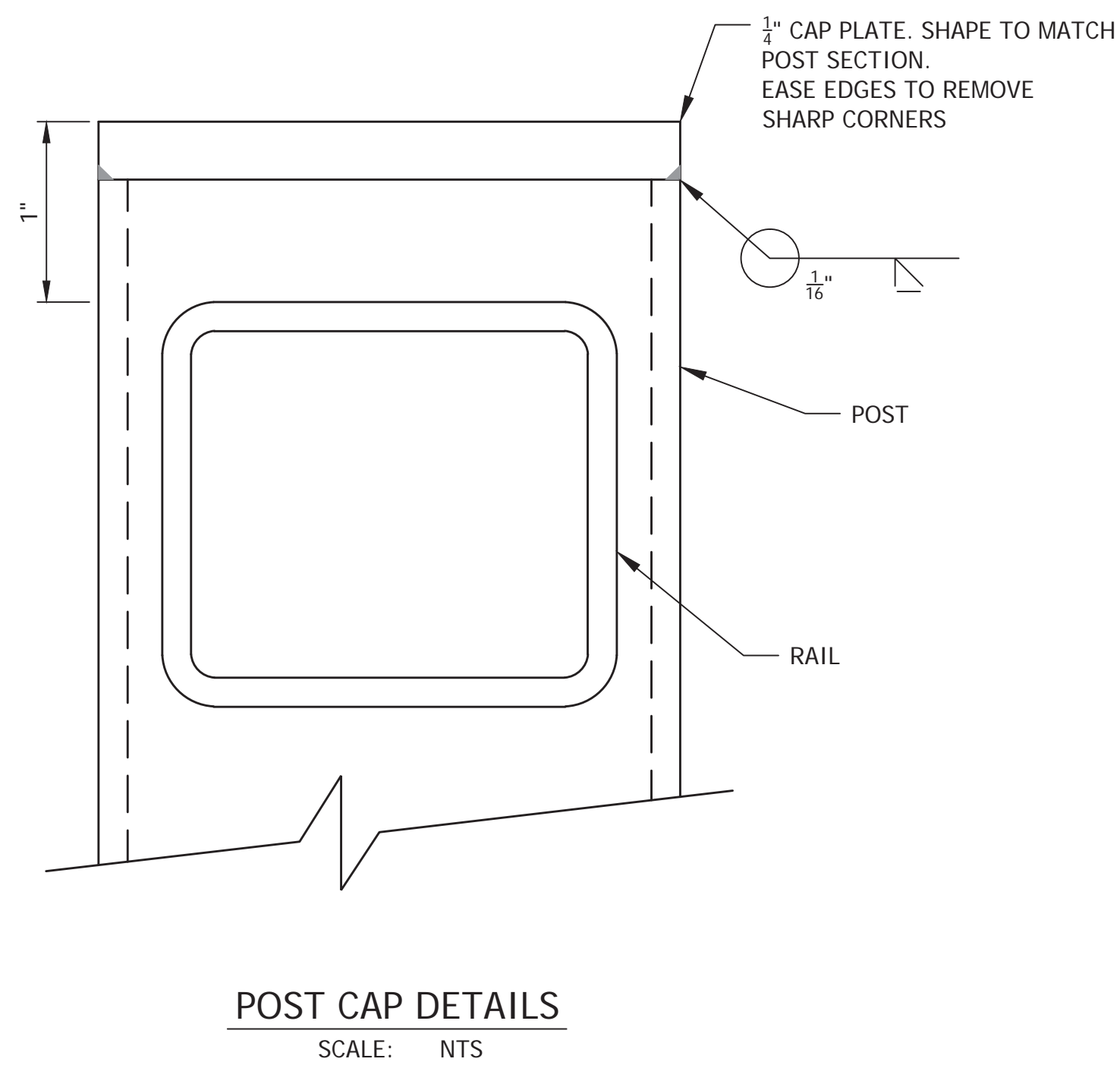
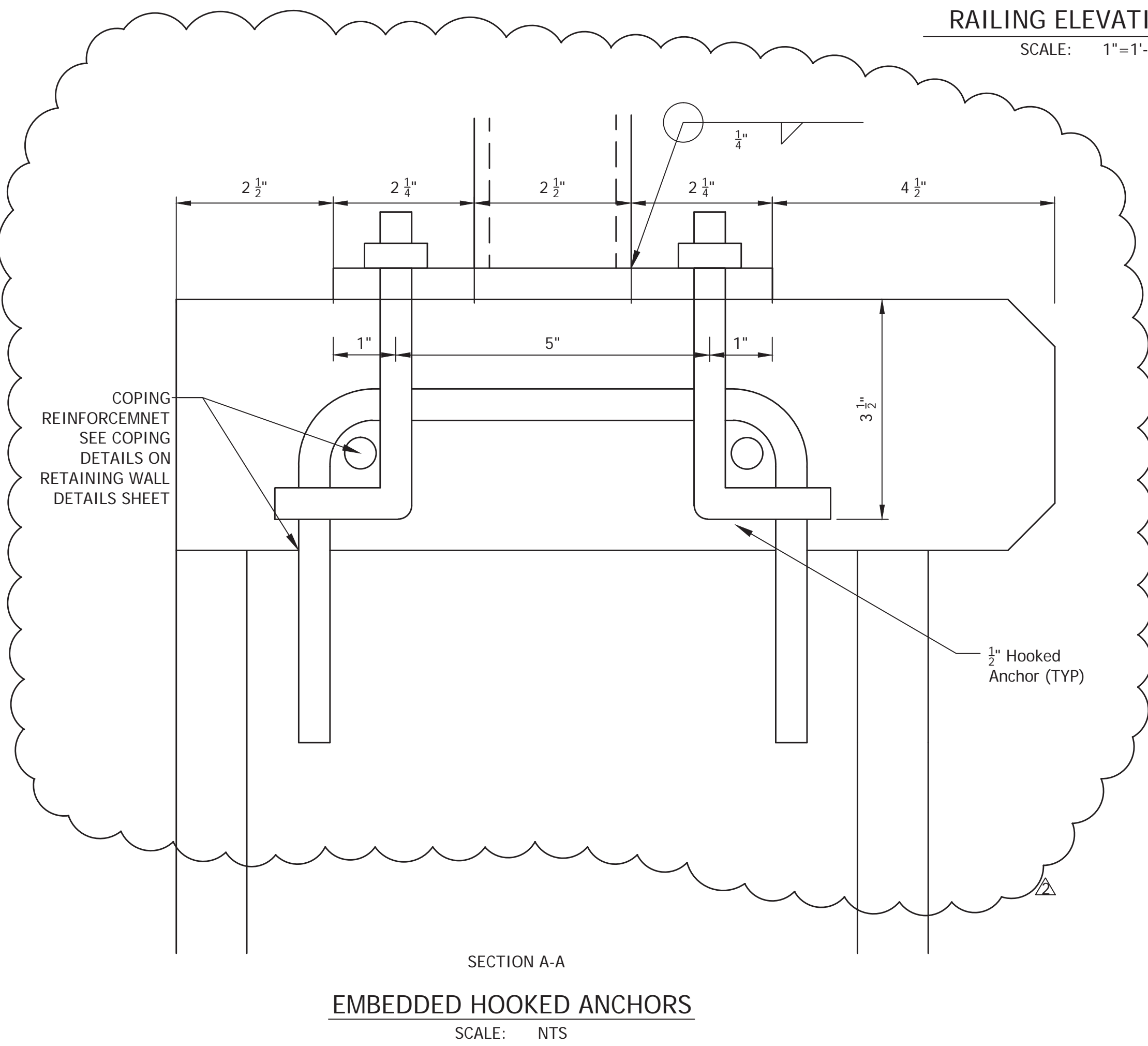
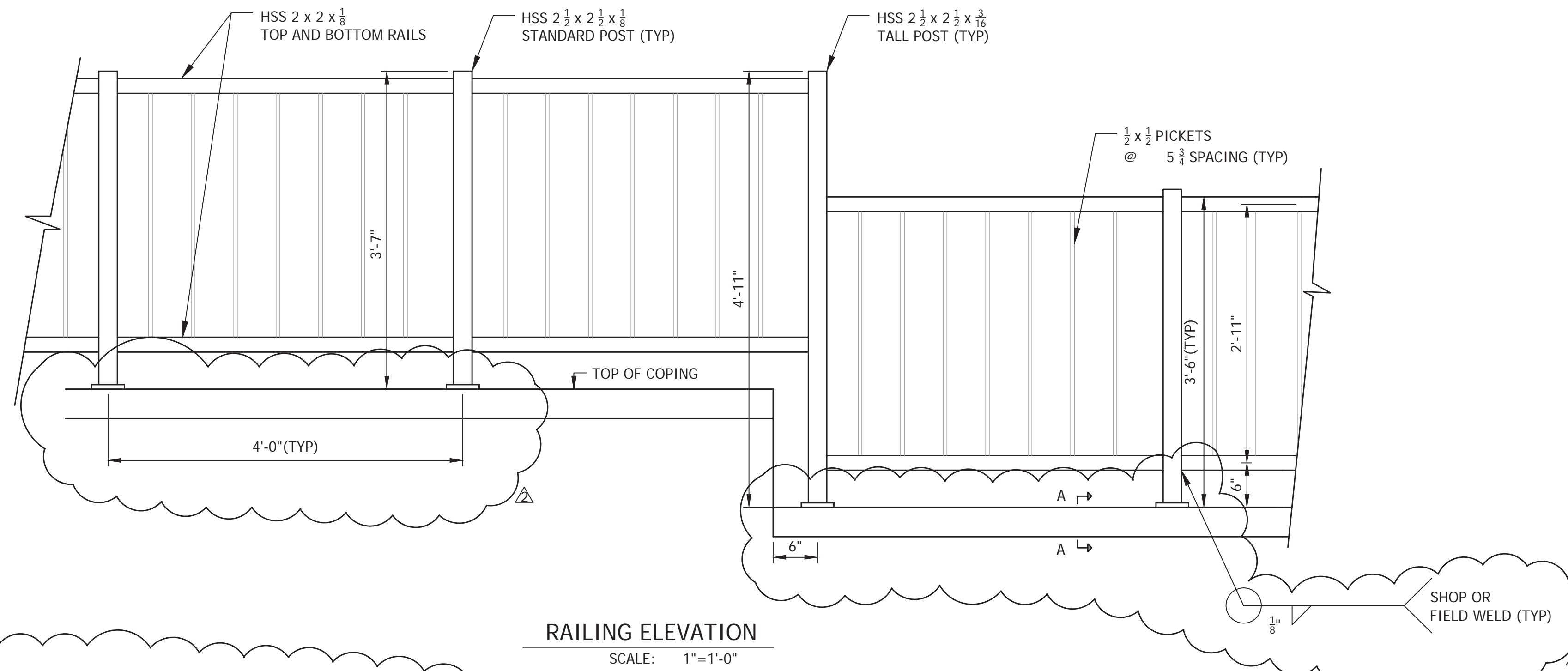


RECOMMENDED FOR APPROVAL	<i>Brad S. Farris</i>	12/28/18
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: BSF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

INDEX SHEET

SCALE	BRIDGE FILE
NONE	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	2 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

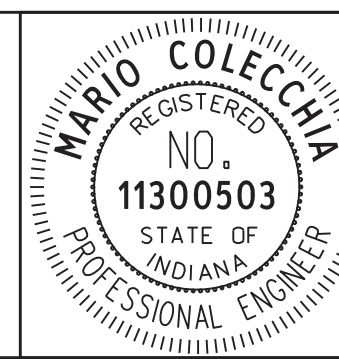


NOTES:

1. GENERAL
 - 1.1 THE CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.
 - 1.2 DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES, UNLESS NOTED.
2. DESIGN SPECIFICATIONS
 - 2.1 2012 INTERNATIONAL BUILDING CODE (IBC)
 - 2.2 AMERICAN CONCRETE INSTITUTE (ACI) 318-11
 - 2.3 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360-10
 - 2.4 AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS 7TH EDITION
 - 2.5 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS) 402-11
 - 2.5 SPECIFICATION FOR MASONRY STRUCTURES (TMS) 602-11
3. CONSTRUCTION SPECIFICATION
 - 3.1 ALL CONSTRUCTION SHALL CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE.
4. REINFORCED CONCRETE
 - 4.1 CEMENT SHALL BE ASTM C 150 TYPE I OR II, OR EQUIVALENT. THE MAXIMUM WATER CEMENTITIOUS RATIO SHALL BE 0.45.
THE CONCRETE SHALL HAVE TOTAL ENTRAINED AIR OF 6%, +/- 1.5%. MINIMUM COMPRESSION STRENGTH SHALL BE 4000 PSI AT 28 DAYS.
 - 4.2 DEFORMED REINFORCING BARS SHALL CONFORM TO THE SPECIFICATIONS OF ASTM A615.
 - 4.3 ALL REINFORCING STEEL SHALL HAVE 2 INCH CLEAR COVER UNLESS NOTED OTHERWISE.
 - 4.4 CHAMFER ALL EXPOSED CORNERS 3/4 INCH UNLESS NOTED OTHERWISE.
 - 4.5 TOP SURFACE TO HAVE FLOAT FINISH OR LIGHT BROOM FINISH.
5. STEEL
 - 5.1 STEEL ELEMENTS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 HOLLOW STRUCTURAL SECTIONS.... ASTM A500 GR. B, Fy = 46 KSI
 PLATES.... ASTM A36, Fy = 36 KSI
 HEADED ANCHORS.... ASTM A108, Fu = 55 KSI
 WELD ELECTRODES.... E70XX
6. CONCRETE MASONRY
 - 6.1 CONCRETE MASONRY UNIT (CMU) COMPRESSIVE STRENGTH (f'm) SHALL BE 1500 PSI AT 28 DAYS.
 - 6.2 MORTAR SHALL BE TYPE M OR S.
 - 6.2 DEFORMED REINFORCING BARS SHALL CONFORM TO THE SPECIFICATIONS OF ASTM A615.
 - 6.3 JOINT REINFORCEMENT SHALL CONFORM TO THE SPECIFICATIONS OF ASTM A951.
 - 6.4 CMU CELLS SHALL BE FULLY GROUTED.

PLOTTED: Monday, January 28, 2019 1:59:03 PM

Rev. 01 01-28-2019



RECOMMENDED FOR APPROVAL	<i>Wario Coleccia</i>	01/28/19
DESIGNED: MC	DRAWN: VY	DATE
CHECKED: VY	CHECKED: MC	

CITY OF BLOOMINGTON	
RAILING DETAILS	

SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	65 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION