

ADDENDUM NO. 1
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 24th, 2019

Letting Date: January 29th, 2019

This Addendum No. 1 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: Street Name Signs

The City of Bloomington Standard Traffic Street Name Sign Details, Standard Drawing No. – SS-1 dated 8/21/2018, is attached with this Addendum. The provided standard drawing shall be the basis for the shop drawing development of the proposed street signs and shall override the details as shown on sheets 43 & 44 of the plans. Shop drawings for the proposed street signs shall be submitted to the city for review and approval prior to manufacturing. Revised Plan sheets 43 & 44 have been added per this addendum.

Item No. 2: Right of Entry

The City of Bloomington would like to remind all bidders of INDOT Standard Specification 107.14 which prohibits entering private property for any propose without first obtaining proper permission. There are currently Rights of Entry in place for the following parcels: Victoria Starkey Temple (Parcel 7), Jon B. Bowman (Parcel 10) and Leonard D. Smith (Parcel 14).

The city would like to emphasize that this includes using private drives for turning around and unloading of construction materials/equipment. The two entrances to the property located at 1800 W 17th St. shall have mounted signs with the following message: "NO CONSTRUCTION TRAFFIC BEYOND THIS POINT". The signs shall be 60"x30" with the text sized and spaced to fill the sign area. The Contractor shall submit a shop drawing of the sign layout for review and approval prior to manufacturing and installation. No direct payment will be made for the signs or their installation, the work shall be included in the item "Maintaining Traffic".

Item No. 3: Neighborhood Sign

The "Relocated Sign" referenced on the Landscape Details, plan sheet 59, is to be relocated from its current location at 1319 N Crescent Rd. Bloomington, IN 47404. The sign is a solid limestone block that is 9' long x 2' wide x 4'-8" tall with an approximate weight of 6.5 tons. The sign shall be placed upon a sign foundation that is detailed on plan sheet 41-1, which is attached to this Addendum. The sign shall be oriented as shown on the plans with the sign lettering facing westbound traffic.

Payment for "Relocate Neighborhood Sign" shall be at the contract unit price per lump sum, which shall include all labor, materials, equipment, excavation and any incidentals required for the sign foundation and sign relocation. Plan sheet 41-1 and a revised "Proposal Schedule of Items" have been added per this addendum.

Item No. 4: Concrete Sidewalk Removal

As a clarification to the plans the existing sidewalk within the project limits along 17th St. is to be removed. The removal quantity is as quantified on the "Proposal Schedule of Items" in the bid documents.

Item No. 5: Crosswalk Lines

The Pavement Marking & Signing Details, sheets 42 and 75, have been revised to call out 24 inch Crosswalk lines at Arlington Park Drive. Revised plan sheets 42 & 75 and a revised "Proposal Schedule of Items" have been added per this addendum.

Item No. 6: Tree Clearing Schedule

To facilitate utility relocation work for the project, tree clearing operations shall commence within one (1) week after issuance of the Notice to Proceed and shall be completed within 30 days.

Item No. 7: Staking Right-of-Way Limits

To facilitate utility relocation work for the project the permanent Right of Way limits shall be staked throughout the project extents. The Right of Way staking shall be marked to identify the permanent Right of Way and include the roadway centerline stationing. Since the utility work is critical path the staking shall be completed within three days after the completion of the tree clearing.

No direct payment will be made for this work, but the cost thereof shall be included in the item "Construction Engineering".

Item No. 8: Light Pole Foundations

Duke Energy's design team has now recommended that direct buried poles be utilized on this project. Duke Energy will be furnishing and installing the direct buried pole. Therefore, Light Pole Foundations have been deleted on Sheets 46-49 as well as the detail on sheets 54. Revised Plan sheets 46-49, and 54, and a revised "Proposal Schedule of Items" have been added per this addendum.

Item No. 9: Tree Removal

The Tree Removal Details, sheets 68 & 69, have been revised. Revised plan sheets and a revised "Proposal Schedule of Items" have been added per this addendum.

Item No. 10: Landscape Plans

The Landscape Details, sheets 55 thru 59, have been revised. Revised plan sheets 55-59 and a revised "Proposal Schedule of Items" have been added per this addendum.

Item No. 11: Storm Sewer

The Pipe material for Storm Sewer Structure Nos. 62, 70 and 71 shall be C-900 pipe. The cost of the pipe shall be paid for under the item "Pipe, Type 2, Circular, 12 In." per the "Proposal Schedule of Items".

The Plan and Profile Details, sheets 17 & 18, and the Structure Data Table, Sheet 77, have been revised to add separate structures for the Aqua-Swirl structures at the east end of the project. Revised plan sheets and a revised "Proposal Schedule of Items" have been added per this addendum.

Item No. 12: Fiber Optic and Lighting Conduits

All conduit ends, not within a manhole or handhole structure, shall be capped with a removable cap and shall remain capped. The inside surface of the conduit shall be kept clean. Conduit to be installed as indicated on the plans for future use of the utility company. The conduits shall be left in place with a pull cord on its entire length. No direct payment will be made for this work, but the cost thereof shall be included in the cost of the conduits.

Item No. 13: Material Testing

The Contractor shall be responsible for securing and paying for outside material testing as set out in Special Provisions Section 02 Part 1.01A of the Contract Documents. Special Provisions Section 02 Part 1.01B of the Contract Documents shall be deleted, the testing requirements and frequency of tests shall in accordance with the INDOT Frequency Manual.

Item No. 14: Maintaining Traffic

The Contractor is advised that all local traffic is to be maintained at all times. In addition Bloomington Transit Route will need to be maintained at all times between Crescent Road and Lismore Drive. The west end of the 24 inch water main relocation falls within this segment of roadway. Therefore the Contractor shall prepare a maintenance of traffic plan for this area to submit for review and approval prior to commencing work on the waterline relocation. Any cost

associated with developing the plan, implementing and maintaining the Bloomington Transit Route will not be paid for separately but will be included in the lump sum cost of "Maintaining Traffic".

The project is set up for a full roadway closure. The Contractor is advised that a full closure will be allowed for tree clearing operations and then reopened until such time the roadway construction commences.

The item "Quality Adjustment, Temporary Traffic Control Devices" will be added to the contract. The quality adjustments shall be in accordance with INDOT Standard Specifications Section 109.05.1(c). The updated "Proposal Schedule of Items" has been added per this addendum.

Item No. 15: City of Bloomington Utilities (CBU)

The Contractor is advised that existing private water services and existing private sanitary sewer laterals that will remain under the wall shall have a split casing around the existing service lines from the retaining wall shear key to 15 feet to allow for future maintenance without disturbing the walls. 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 size of the split casing for the private water services shall be 4 inch and the size for the private sanitary sewer laterals shall be 12 inch. The items "Split Casing, 4 In." and "Split Casing, 12 In." will be added to the contract. The updated "Proposal Schedule of Items" has been added per this addendum.

CBU's GIS records indicate a sewer lateral wye for the property at 1604 W 17th Street is about 2' south of the existing manhole at Sta. 40+79 Line "SS-3". Since this section of sanitary sewer main is to be removed and replaced, the contractor will be required to install a new wye on the new main and reconnect the existing sanitary sewer lateral." The Utility Plan, sheets 48, has been revised to add notes for Wye. A revised plan sheet has been added per this addendum.

Item No. 16: Questions and Answers

(Q) How is the handrail to be mounted? What is it anchored to?

(A) Per the details shown on the drawings, the posts are field welded to a base plate which is cast into the "Cast in Place" coping.

(Q) The asphalt pay items and mix are QC/QA, this being said and INDOT specs being followed the contractor should have the opportunity for volumetric mix bonuses on the job. Those pay items are missing, will they be added?

(A) Yes, the item "Quality Adjustment, HMA" will be added to the contract. The quality adjustments shall be in accordance with INDOT Standard Specifications Section 109.05.1 and shall be computed in accordance with Section 401.19. The updated "Proposal Schedule of Items" has been added per this addendum.

(Q) The project doesn't meet the speed design requirements for profilograph, will it be deleted?

(A) Yes, the item Profilograph will be deleted. However, the Contractor will be required to provide a 16 ft straightedge and 10 ft straightedge. The straightedge testing shall be in accordance with INDOT Standard Specifications Section 401.18(b). The updated "Proposal Schedule of Items" has been added per this addendum.

(Q) Can you please provide an update on utility re-location progress?

(A) Yes, the latest utility relocations plans have been posted on BloomingBid by the City of Bloomington.

(Q) With Duke not completing re-location per the specs until June 15th and others to follow after them it is possible work could not begin until sometime in July. However the spec reads we have 215 calendar days to complete the project after notice to proceed. This is not possible to do, can you please re-visit the completion date? Possibly do half the project this season and half next.

(A) No, The project is to be completed within the specified number of calendar days. A notice to proceed is anticipated to be issued in early February after the project has been awarded. The early notice to proceed will be for activities such as tree clearing and Right-of-Way staking to expedite utility relocations. The official calendar day count will not commence until April 1, 2019. Roadway work and Contractor installed utility work shall occur simultaneous with Utility Company relocation activities. Work activities on waterline relocation, force main, sanitary and storm sewer installation, excavation and retaining wall work shall occur concurrently with the outside utility relocations.

(Q) Would you consider adding the pay item, "temporary #53 stone for driveway maintenance"?

(A) No, it is to be included in the item "Maintaining Traffic".

(Q) Will the rock excavation pay item be paid for rock in utility / storm trenches or is it to be included in the utility?

(A) The item "Excavation, Rock" has been revised to be an undistributed quantity of 375 CYS. This undistributed quantity is to be utilized where rock is encountered on the project including utility / storm trenches. Pay limits for rock excavation shall be in accordance with CBU Construction Specifications section 4.5.1.2.1.2.4.

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

(A) No, CBU will require testing.

(Q) Does the city have any flow data they could share on the 12" and 8" sanitary that get relocated (for bypass pumping calculations)?

(A) No, bypass pumps shall be sized based upon the pipes flowing full.

(Q) Can you please provide an update on R/W acquisition for Glick Arlington?

(A) The Glick Arlington Park parcel is still in negotiations. It anticipated that it will be cleared within the next month.

(Q) A bid price for item #17 should be provided by the owner/engineer?

(A) The bid price has been added. The updated "Proposal Schedule of Items" has been added per this addendum.

(Q) Does the rebar item pay for all rebar in footings, walls and coping? If not what is paid as rebar and what isn't?

(A) Yes. The rebar pay item pays for all rebar in the footing, wall and coping.

(Q) What are the pay limits for concrete B footing?

(A) Pay limits for Concrete B are the entire concrete footing, including the turn down (shear key) and the pedestal.

(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 valve will be required.

(Q) Will the 24" hot taps/valves need to be inside manholes?

(A) No manholes are not required, the valves are required to be in a valve box.

(Q) Will the surface pavement be placed by the city or by the contractor?

(A) The Contractor will be responsible for placement of the surface course.

(Q) Will the city consider changing intermediate and surface asphalt courses to 2, 64 from 2, 70 type mix?

(A) Yes, the Legend Item K, sheets 2-6 have been revised. The surface and intermediate layers shall be 2, 64 type mix. Revised plan sheets and a revised "Proposal Schedule of Items" have been added per this addendum.

(Q) Is a field office being required for the project?

(A) Yes, it is item 57 on the "Proposal Schedule of Items".

(Q) Some of the aqua-swirls are shown with more than one inlet. After talking with manufacturer this cannot be accomplished, there should be one inlet and one outlet?

(A) The Plan and Profile Details, sheets 17 & 18, and the Structure Data Table, Sheet 77, have been revised to add separate structures for the Aqua-Swirl structures at the east end of the project. Revised plan sheets and a revised "Proposal Schedule of Items" have been added per this addendum.

(Q) Are the gate valve items to pay for Valves as indicated, or Tapping Valves and Tap?

(A) Gate tapping valves and tap. The Utility Details, sheets 52 & 53, have been revised to clarify the type of valves required. Revised plan sheets and a revised "Proposal Schedule of Items" have been added per this addendum.

(Q) Should the 24" gate valve be butterfly instead of Gate?

(A) Per discussions with CBU, a 24" gate tapping valve is required.

(Q) Are the 6" gate valves for the fire hydrants?

(A) Yes, see City of Bloomington Standard Detail Number 8.

(Q) Will you be creating an item for 6" tap valve?

(A) Yes, the item "Gate Tapping Valve, Ductile Iron, 6 In." will be added to the contract. The updated "Proposal Schedule of Items" has been added per this addendum.

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

(A) Per CBU Construction Specifications section 4.5.3.7, domestic meters, service yokes and pits shall be purchased from CBU. The Contractor shall submit a reimbursement request for the exact amount without any mark-up to the City of Bloomington.

(Q) How are the old water services to be abandoned? Or do we re-connect to existing line for the new services?

(A) Re-connection to the existing lines for new service at the proposed metered locations. Meter locations are approximate and field verification of the existing service lines shall be required.

(Q) Is poly acceptable material for the service lines?

(A) Blue polyethylene is acceptable, see CBU Construction Specifications sections 4.4.4.1.4. & 4.4.4.1.4.1.

(Q) Can you please identify what the excavation X item is paying for?

(A) Excavation X is for structural excavation for the retaining walls.

(Q) Will a topsoil item be created to pay for imported topsoil?

(A) Yes, the item "Topsoil" will be added to the contract. The updated "Proposal Schedule of Items" has been added per this addendum.

(Q) Is the structure backfill item to pay for only storm backfill or sanitary and water as well?

(A) The item "Structural Backfill, Type 1" is only for the storm sewer pipe. The backfill for the sanitary sewer and water lines is to be included in the cost of the pipe.

(Q) What is the desired finish on the handrails?

(A) The finish for the handrail shall be powder coated.

(Q) The 12" and 8" sanitary notes say C-900 is required, can the 6" be SDR 35?

(A) Per CBU Construction Specifications, section 4.4.2.1.1.1, for gravity sewer lines SDR 35 can be used. For pressure sanitary sewers see section 4.4.3.2.1 for allowable pipe types.

(Q) There are no items to pay for the forcemain work? How is that work to be paid for?

(A) The quantity for the 6 inch forcemain was inadvertently included in the Pay item "Pipe, Sanitary Sewer 6 In.". The quantity for "Pipe, Sanitary Sewer 6 In." has been revised to only include the 6 inch gravity sanitary sewer and the item "Forcemain" will be added to the contract. The updated "Proposal Schedule of Items" has been added per this addendum.

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

(A) Per CBU Construction Specifications section 4.5.3.4.6. taps will be made by City Utilities for mains. For service connections, per section 4.5.3.6.2, contractor can make service taps on the newly-installed main. For the existing main taps, per section 4.5.3.6.1, CBU shall make the taps.

(Q) Are there any CBU fees that the contractor is responsible for?

(A) Any fees and or meter cost will be paid by the Contractor. The Contractor shall submit a reimbursement request for the exact amount without any mark-up to the City of Bloomington.

(Q) For the manhole modifications on plan sheet 52 will new steps need to be installed in the manholes?

(A) Yes, steps will need to be installed per CBU Construction Specifications, section 4.5.2.1.7.3.

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

(A) Yes, the manholes will need to be air pressure tested per CBU Construction Specifications, section 4.5.8.1.1.

(Q) Can the top row of block be smooth faced to aid in forming and pouring the cast in place coping?

(A) No, The block facing is to be as called out on the plans.

(Q) Where is the "Pipe Plug Existing" item? Not shown on plans.

(A) The pay item "Pipe Plug Existing" is not required and will be deleted. A revised "Proposal Schedule of Items" has been added per this addendum.

(Q) How will the cast in place concrete coping on top of the retaining wall be paid for?

(A) The coping is included in the square foot area of the Retaining Walls. The work shall be included in the item "Retaining Wall".

(Q) Would you please confirm the CMU block size for the retaining wall? Details on sheet 41 show 12"x8"x16" and legend on sheets 61 thru 64 have 8"x8"x16".

(A) The CMU block size shall be 12"x8"x16" as shown on the detail on sheet 41.

(Q) Are the Fluted CMU's to be 4 flute or 8 flute?


(A) The Fluted CMU's are to be 4 flute.

(Q) There are 7 new sanitary manholes however there are only pay items for 6 new manholes (not including the 2 that get modified)?

(A) There are 6 new sanitary sewer manholes. A revised "Proposal Schedule of Items" has been added per this addendum.

(Q) There are modifications that will need made to the sanitary manhole @ Sta. 40+00 Line SS-3, however I do not see an item to pay for this work, will there be one be added? Also, can a detail be provided for this manhole's modification requirements?

(A) Yes, an additional Sanitary Manhole, Modified item will be added. No detail will be provided as the only modification will be to core a hole for the new pipe. A revised "Proposal Schedule of Items" has been added per this addendum.

	<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: January 29, 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	6378.50	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	-	-

TOTAL PROJECT BID:	-
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POST-MOUNTED STREET NAME SIGN



OVERHEAD STREET NAME SIGN



NOTES:

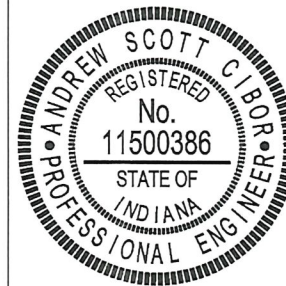
1. BACKGROUND FOR PUBLIC ROAD STREET NAME SIGNS SHALL BE GREEN COLOR.
2. BACKGROUND FOR PRIVATE ROAD STREET NAME SIGNS SHALL BE BLUE COLOR.
3. ALL LETTERING FOR STREET NAME SIGNS SHALL BE WHITE COLOR .
4. SIGNS SHALL HAVE A 1/2" WHITE BORDER ALONG THE EDGE
5. STREET NAMES WITH A SUPERSCRIPIT (E.G., 16TH) SHALL HAVE AN ADDITIONAL 1/2" OFFSET BETWEEN THE SUPERSCRIPIT TEXT AND THE ADDRESS BLOCK NUMBER ON POST-MOUNTED SIGNS AND AN ADDITIONAL 1" ON OVERHEAD SIGNS.
6. SIGN HEIGHT FROM THE GROUND TO THE BOTTOM OF A POST-MOUNTED STREET SIGN SHALL BE 7'-0" (MINIMUM).



CITY OF BLOOMINGTON

STANDARD TRAFFIC
STREET NAME SIGN DETAILS

STANDARD DRAWING NO.- SS-1



ASG
ENGINEER

8/21/2018
DATE

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

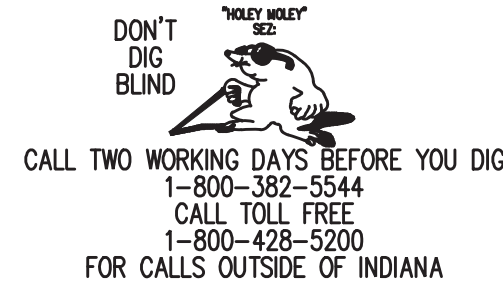
TRAFFIC SIGNS & PAVEMENT MARKINGS:
City of Bloomington Street Department
1981 S. Henderson Street
Bloomington, IN 47401
Attn: Mike Stinson 812-349-3450
stinsonm@bloomington.in.gov

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

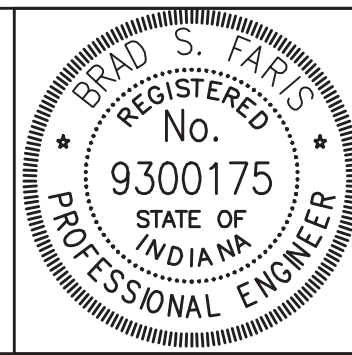
- (A) Variable Depth Plain PCCP on 3" Compacted Aggregate, No. 53, Base on Subgrade Treatment, Type IB
- (C) PCCP for Approaches, 6 in. on Subgrade Treatment, Type II
- (C1) PCCP for Approaches, 9 in. on Subgrade Treatment, Type II
- (D) 550 #/syd HMA for Approaches, Type B
165 #/syd HMA Surface Type 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
52-54	UTILITY DETAILS
55-60	LANDSCAPE PLANS & DETAILS
61-65	LANDSCAPE RETAINING WALL DETAILS
66-71	TREE REMOVAL PLANS
72	MISCELLANEOUS TABLES
73-74	EROSION CONTROL TABLES
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



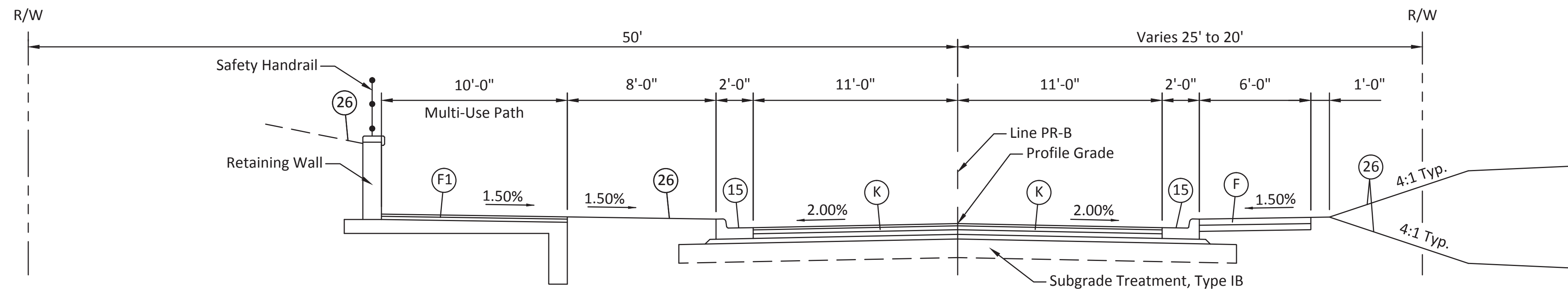
RECOMMENDED FOR APPROVAL *Brad S. Faris* 12/28/18
DESIGN ENGINEER DATE

DESIGNED: BSF DRAWN: BSF
CHECKED: BSF CHECKED: LAR

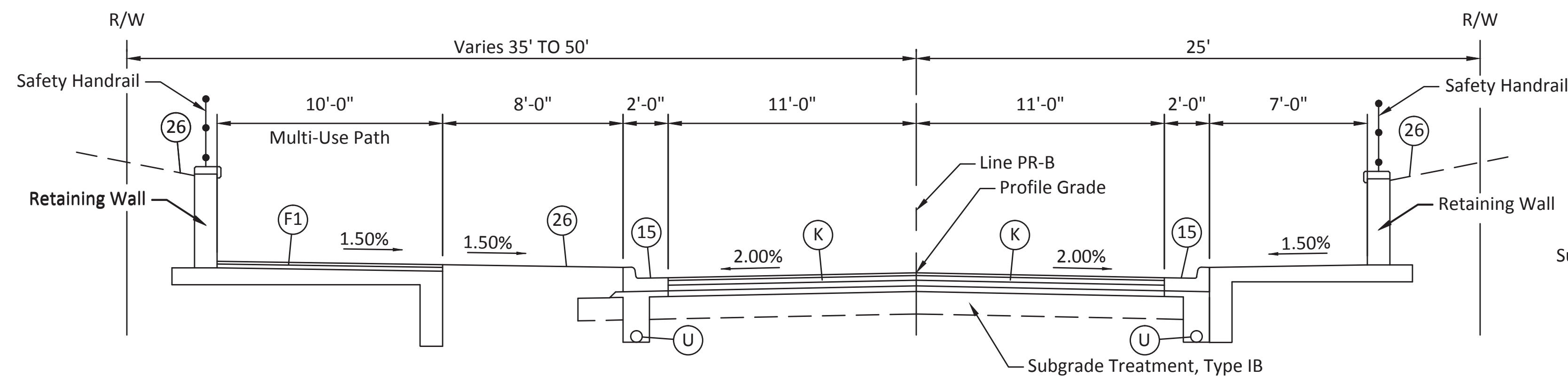
CITY OF BLOOMINGTON

INDEX SHEET

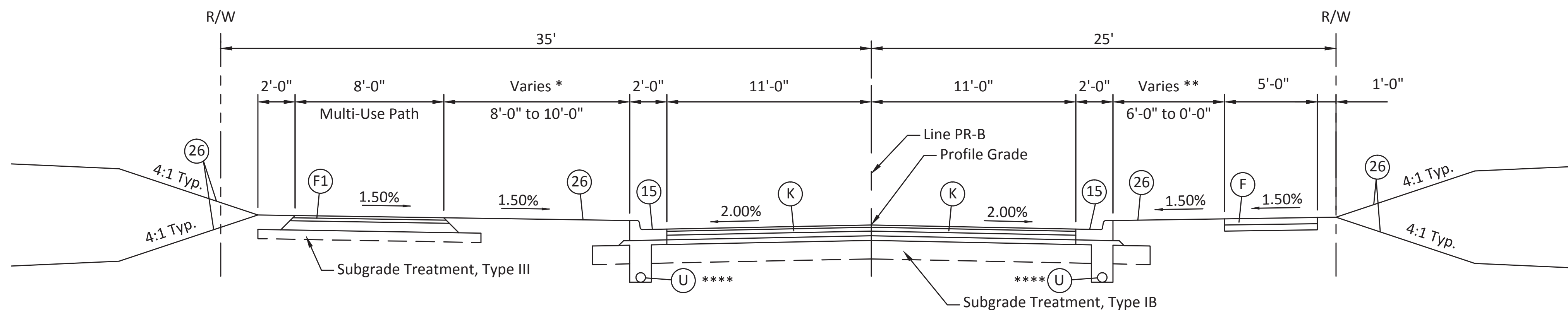
SCALE	BRIDGE FILE
NONE	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	2 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



17TH STREET
STA. 21+24.20 TO STA. 22+78.40 "PR-B"



17TH STREET
STA. 18+78.40 TO STA. 21+24.20 "PR-B"



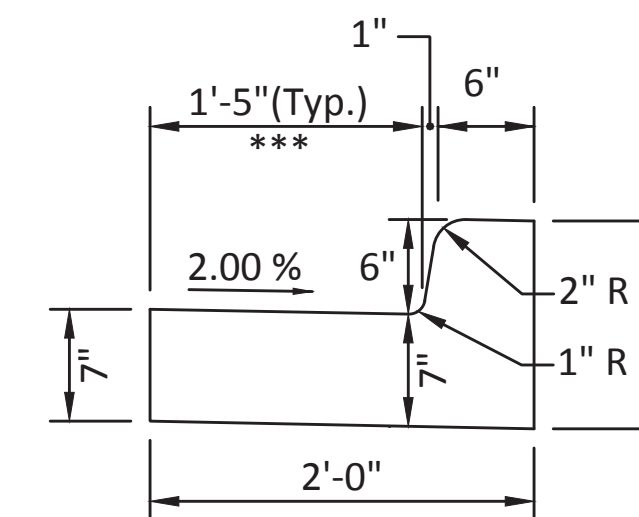
17TH STREET
STA. 13+66.58 TO STA. 18+78.40 "PR-B"

* 10'-0" Sta. 13+66.58 to Sta. 16+81.80
Varies 10'-0" Sta. 16+81.80 to 8'-0" Sta. 17+16.65
8'-0" Sta. 17+16.65 to Sta. 18+78.40

** 6'-0" Sta. 13+66.58 to Sta. 18+51.80
Varies 6'-0" Sta. 18+51.80 to 0'-0" Sta. 18+94.80

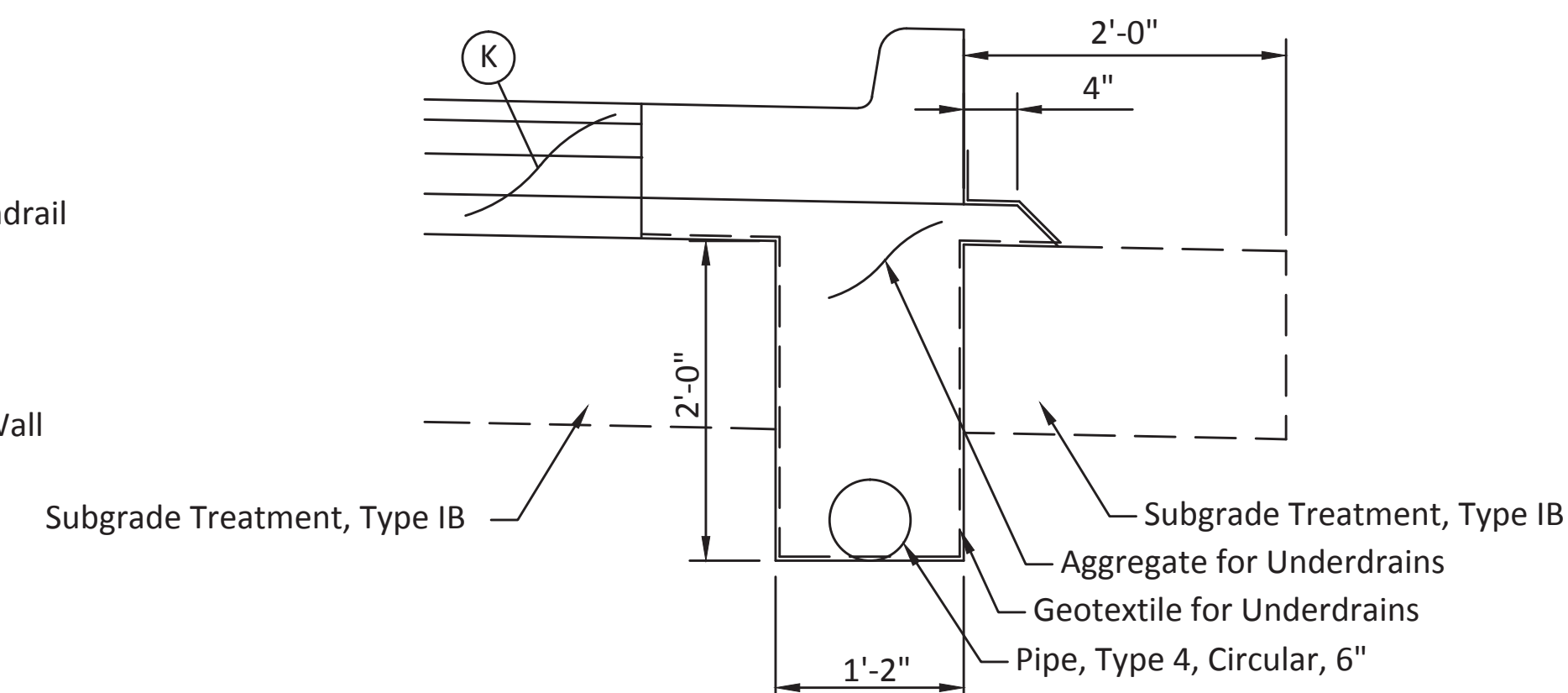
**** Begin Underdrain Installation
Sta. 18+40.00

NOTE: PROPOSED RIGHT-OF-WAY SHOWN WHERE APPLICABLE. SEE PLANS FOR LOCATION OF EXISTING RIGHT-OF-WAY AND PROPOSED TEMPORARY RIGHT-OF-WAY



*** Gutter Pan Width Varies
Varies 1'-5" Sta. 15+99.80 Rt. to 0'-0" Sta. 16+29.80 Rt.
Varies 1'-5" Sta. 16+12.20 Lt. to 0'-0" Sta. 16+29.80 Lt.
Varies 0'-0" Sta. 16+53.80 Rt. to 1'-5" Sta. 16+68.30 Rt.
Varies 0'-0" Sta. 16+53.80 Lt. to 1'-5" Sta. 16+83.80 Lt.

MODIFIED COMBINED CONCRETE CURB AND GUTTER
Scale: 1' = 1'-0"



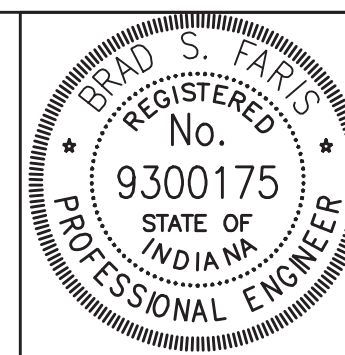
UNDERDRAIN DETAIL
Scale: 1' = 1'-0"

LEGEND

- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk: 140 #/SYS HMA Surface, Type A on 220 #/SYS HMA Intermediate, Type A on 6" Compacted Aggregate, No. 53, Base
- (K) Full Depth HMA Pavement: 165 #/SYS QC/QA HMA, 2, 64, Surface 9.5mm on 275 #/SYS QC/QA HMA, 2, 64, Intermediate 19.0mm on 330 #/SYS QC/QA HMA, 2, 64, Base 25.0mm on 3" Compacted Aggregate, No. 53, Base
- (U) 6" Underdrain
- (13) Concrete Curb
- (15) Combined Concrete Curb and Gutter, Modified
- (26) Sodding, Nursery

NOTE:

For Legend Item (F1) when on Retaining Wall Footings the Compacted aggregate layer is to be omitted.



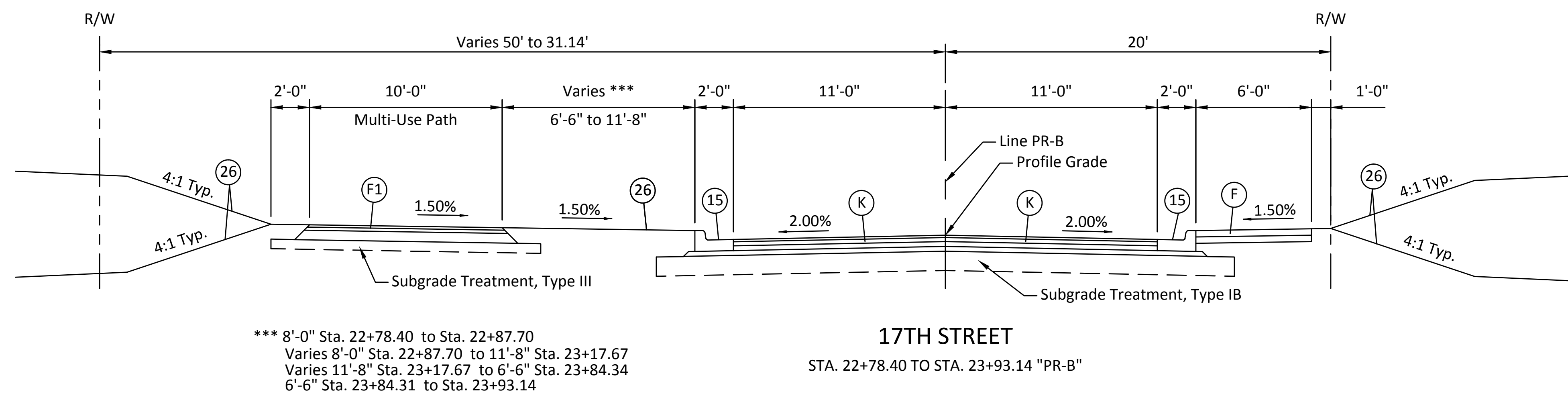
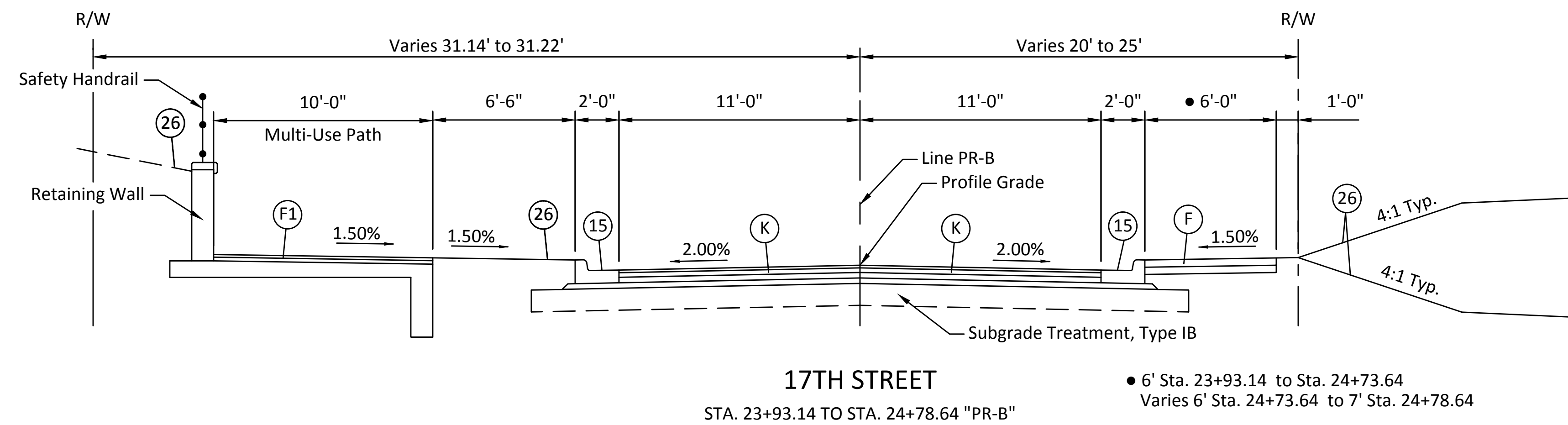
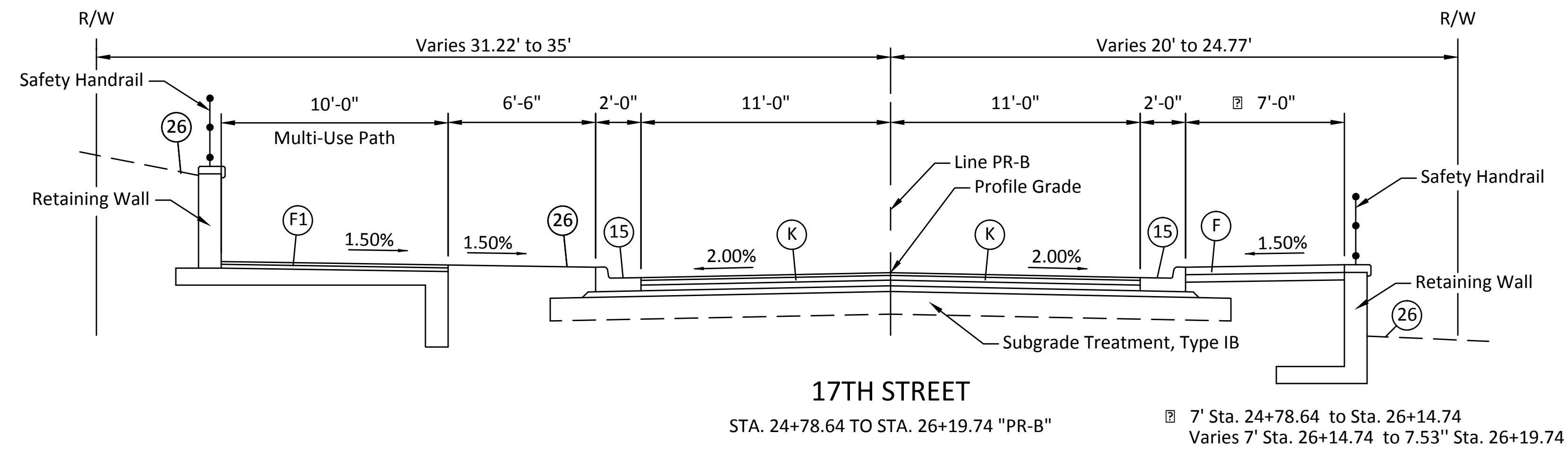
RECOMMENDED FOR APPROVAL	<i>Brad S. Paris</i>	12/28/18
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

TYPICAL SECTIONS

SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	3 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

NOTE: PROPOSED RIGHT-OF-WAY SHOWN WHERE APPLICABLE. SEE PLANS FOR LOCATION OF EXISTING RIGHT-OF-WAY AND PROPOSED TEMPORARY RIGHT-OF-WAY

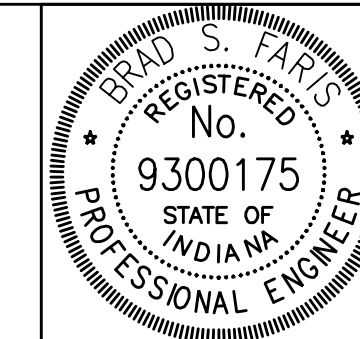


- LEGEND**
- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
 - (F1) HMA for Sidewalk: 140 #/SYS HMA Surface, Type A on 220 #/SYS HMA Intermediate, Type A on 6" Compacted Aggregate, No. 53, Base
 - (K) Full Depth HMA Pavement: 165 #/SYS QC/QA HMA, 2, 64, Surface 9.5mm on 275 #/SYS QC/QA HMA, 2, 64, Intermediate 19.0mm on 330 #/SYS QC/QA HMA, 2, 64, Base 25.0mm on 3" Compacted Aggregate, No. 53, Base
 - (13) Concrete Curb
 - (15) Combined Concrete Curb and Gutter, Modified
 - (26) Sodding, Nursery

NOTE:
 For Legend Item (F1) when on Retaining Wall Footings the Compacted aggregate layer is to be omitted.

PLOTTED: Tuesday, January 22, 2019 12:50:20 PM

Rev. 01 01-23-2019



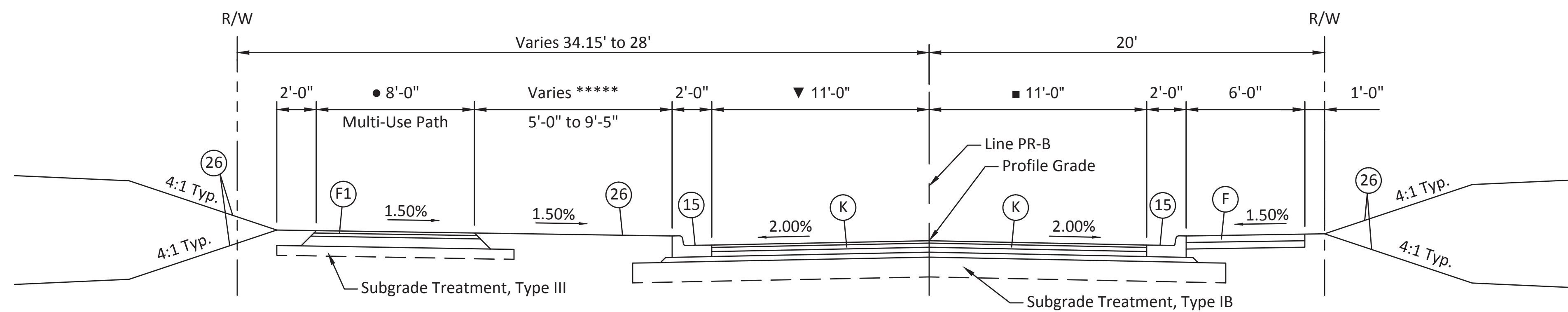
RECOMMENDED FOR APPROVAL	<i>Brad S. Paris</i>	12/28/18
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

TYPICAL SECTIONS

SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	4 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

NOTE: PROPOSED RIGHT-OF-WAY SHOWN WHERE APPLICABLE. SEE PLANS FOR LOCATION OF EXISTING RIGHT-OF-WAY AND PROPOSED TEMPORARY RIGHT-OF-WAY



***** Varies 6'-1" Sta. 27+79.75 to 6'-11" Sta. 27+96.64
 Varies 6'-11" Sta. 27+96.64 to 5'-0" Sta. 28+31.55
 5'-0" Sta. 28+31.55 to Sta. 29+89.34
 Varies 5'-0" Sta. 29+89.34 to 9'-5" Sta. 30+76.41
 Varies 9'-5" Sta. 30+76.41 to 8'-4" Sta. 31+00.00

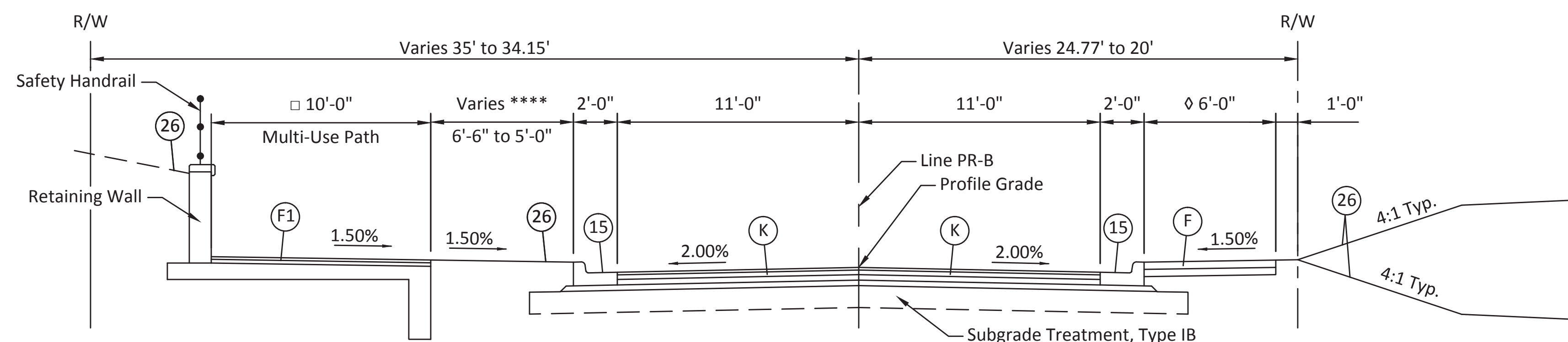
● Varies 9.15' Sta. 27+79.75 to 8' Sta. 27+96.07
 8' Sta. 27+96.07 to Sta. 31+00.00

17TH STREET

STA. 27+79.75 TO STA. 31+00.00 "PR-B"

▼ 11' Sta. 27+79.75 to Sta. 30+31.87
 Varies 11' Sta. 30+31.87 to 12' Sta. 30+76.46
 Varies 12' Sta. 30+76.46 to 12.18' Sta. 31+00.00

■ 11' Sta. 27+79.75 to Sta. 30+31.87
 Varies 11' Sta. 30+31.87 to 12' Sta. 30+76.46
 Varies 12' Sta. 30+76.46 to 12.07' Sta. 30+89.41
 Varies 12.07' Sta. 30+89.41 to 11.89' Sta. 31+00.00



**** Varies 6'-6" Sta. 26+18.50 to 5'-0" Sta. 26+43.72
 5'-0" Sta. 26+43.72 to Sta. 27+67.95
 Varies 5'-0" Sta. 27+67.95 to 6'-1" Sta. 27+79.75

□ 10' Sta. 26+19.74 to Sta. 27+67.95
 Varies 10' Sta. 27+67.95 to 9.15' Sta. 27+79.75

17TH STREET

STA. 26+19.74 TO STA. 27+79.75 "PR-B"

◇ Varies 7.53' Sta. 26+19.74 to 6' Sta. 26+72.70
 6' Sta. 26+72.70 to Sta. 27+79.75

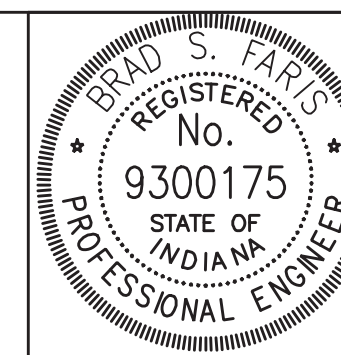
LEGEND

- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk: 140 #/SYS HMA Surface, Type A on 220 #/SYS HMA Intermediate, Type A on 6" Compacted Aggregate, No. 53, Base
- (K) Full Depth HMA Pavement: 165 #/SYS QC/QA HMA, 2, 64, Surface 9.5mm on 275 #/SYS QC/QA HMA, 2, 64, Intermediate 19.0mm on 330 #/SYS QC/QA HMA, 2, 64, Base 25.0mm on 3" Compacted Aggregate, No. 53, Base
- (13) Concrete Curb
- (15) Combined Concrete Curb and Gutter, Modified
- (26) Sodding, Nursery

NOTE:

For Legend Item (F1) when on Retaining Wall Footings the Compacted aggregate layer is to be omitted.

Rev. 01 01-23-2019



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

CITY OF BLOOMINGTON

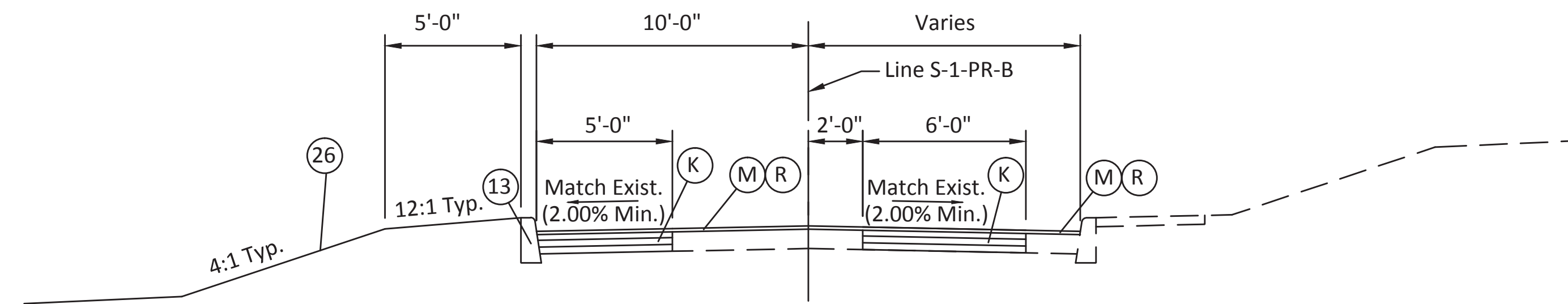
TYPICAL SECTIONS

SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	5 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

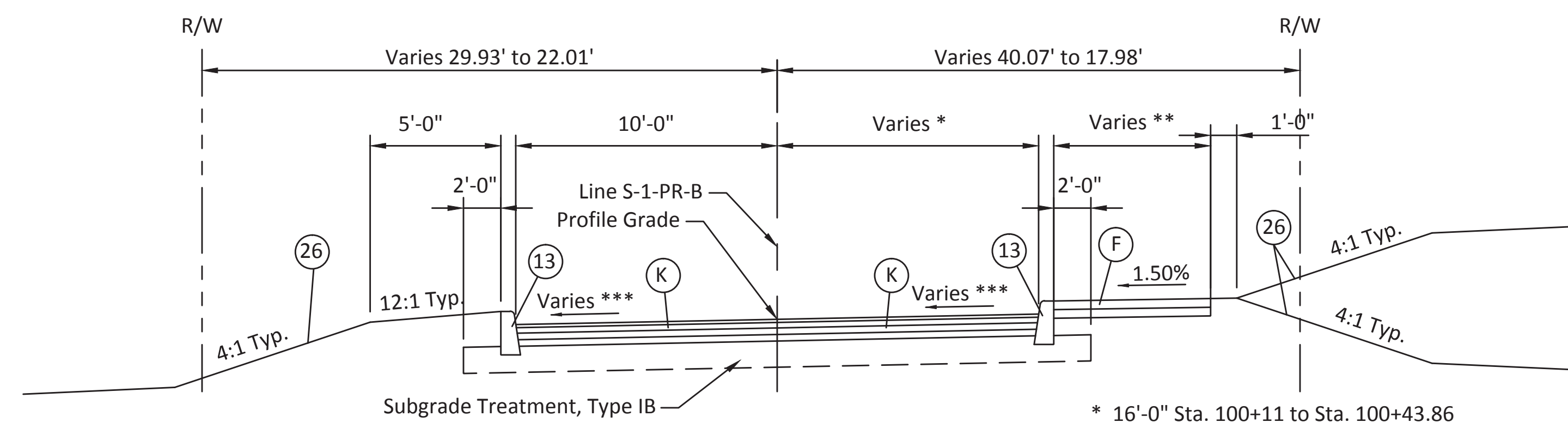
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FILE: SHT_TYPSECT03.DWG

NOTE: PROPOSED RIGHT-OF-WAY SHOWN WHERE APPLICABLE. SEE PLANS FOR LOCATION OF EXISTING RIGHT-OF-WAY AND PROPOSED TEMPORARY RIGHT-OF-WAY



LINDBERGH DRIVE
STA. 101+12.76 TO STA. 102+68.53 "S-1-PR-B"



LINDBERGH DRIVE
STA. 100+11.00 TO STA. 101+12.76 "S-1-PR-B"

* 16'-0" Sta. 100+11 to Sta. 100+43.86
Varies 16'-0" Sta. 100+43.86 to 10'-5" Sta. 100+99.30
10'-5" Sta. 100+99.30 to Sta. 101+12.76

** 6'-0" Sta. 100+11 to Sta. 100+99.30
Varies 6'-0" Sta. 100+99.30 to 4'-0" Sta. 100+12.76

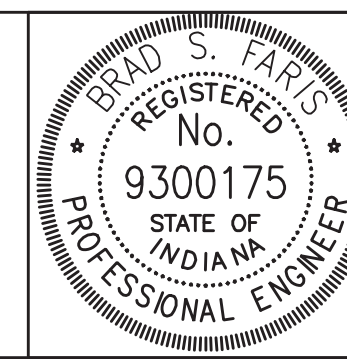
*** See Spot Elevation Detail Sheet

LEGEND

- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk:
140 #/SYS HMA Surface, Type A on 220 #/SYS HMA Intermediate, Type A on 6" Compacted Aggregate, No. 53, Base
- (K) Full Depth HMA Pavement:
165 #/SYS QC/QA HMA, 2, 64, Surface 9.5mm on 275 #/SYS QC/QA HMA, 2, 64, Intermediate 19.0mm on 330 #/SYS QC/QA HMA, 2, 64, Base 25.0mm on 3" Compacted Aggregate, No. 53, Base
- (M) Milling, Asphalt, 1 1/2 in.
- (R) 165 #/SYS QC/QA HMA, 2, 70, Surface 9.5 mm
- (13) Concrete Curb
- (15) Combined Concrete Curb and Gutter, Modified
- (26) Sodding, Nursery

PLOTTED: Tuesday, January 22, 2019 12:44:35 PM

Rev. 01 01-23-2019



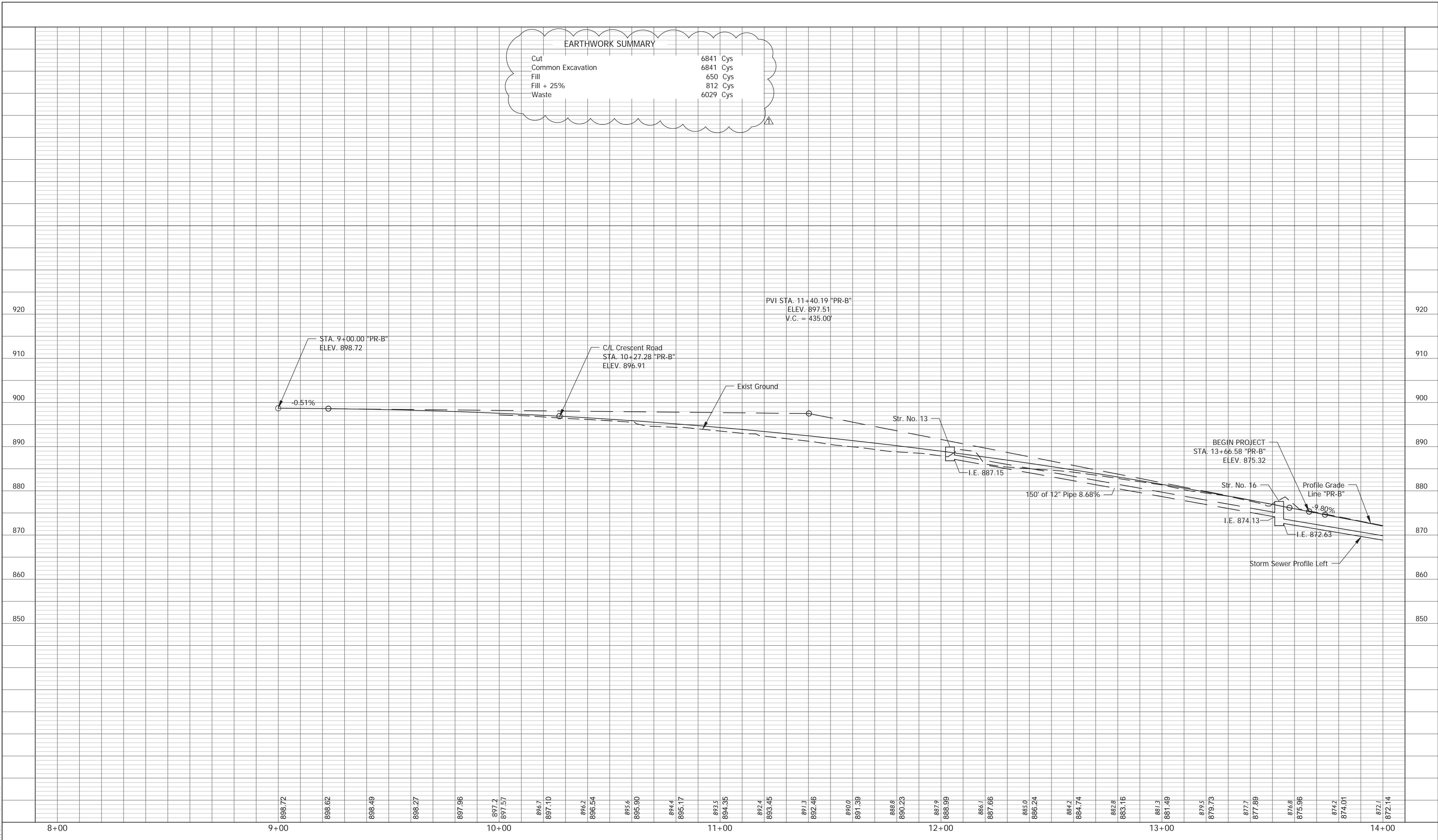
RECOMMENDED FOR APPROVAL	<i>Brad S Farris</i>	12/28/18
DESIGNED: BSF	DRAWN: BSF	DATE
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

TYPICAL SECTIONS

SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	6 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

EARTHWORK SUMMARY	
Cut	6841 Cys
Common Excavation	6841 Cys
Fill	650 Cys
Fill + 25%	812 Cys
Waste	6029 Cys



Rev. 01 01-23-2019



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

CITY OF BLOOMINGTON

PROFILE SHEET
STA. 8+00 TO STA. 14+00 - LINE "PR-B"

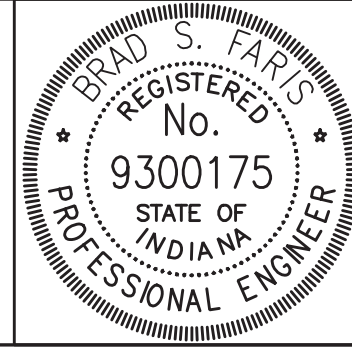
SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	12 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Wednesday, January 23, 2019 4:07:19 PM

PLOTTED: Monday, January 21, 2019 6:24:37 PM

Rev. 01 01-23-2019

- (C) PCCP for Approaches, 6 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
- (F) Concrete Sidewalk, 4 In. on 4 In. Compacted Aggregate, No. 53, Base
- (F1) HMA for Sidewalk: See Typical Section
- (K) Full Depth HMA Pavement: See Typical Section
- (N) 6" Compacted Aggregate for Surface, No. 73
- (15) Combined Concrete Curb and Gutter, Modified
- (26) Sodding, Nursery

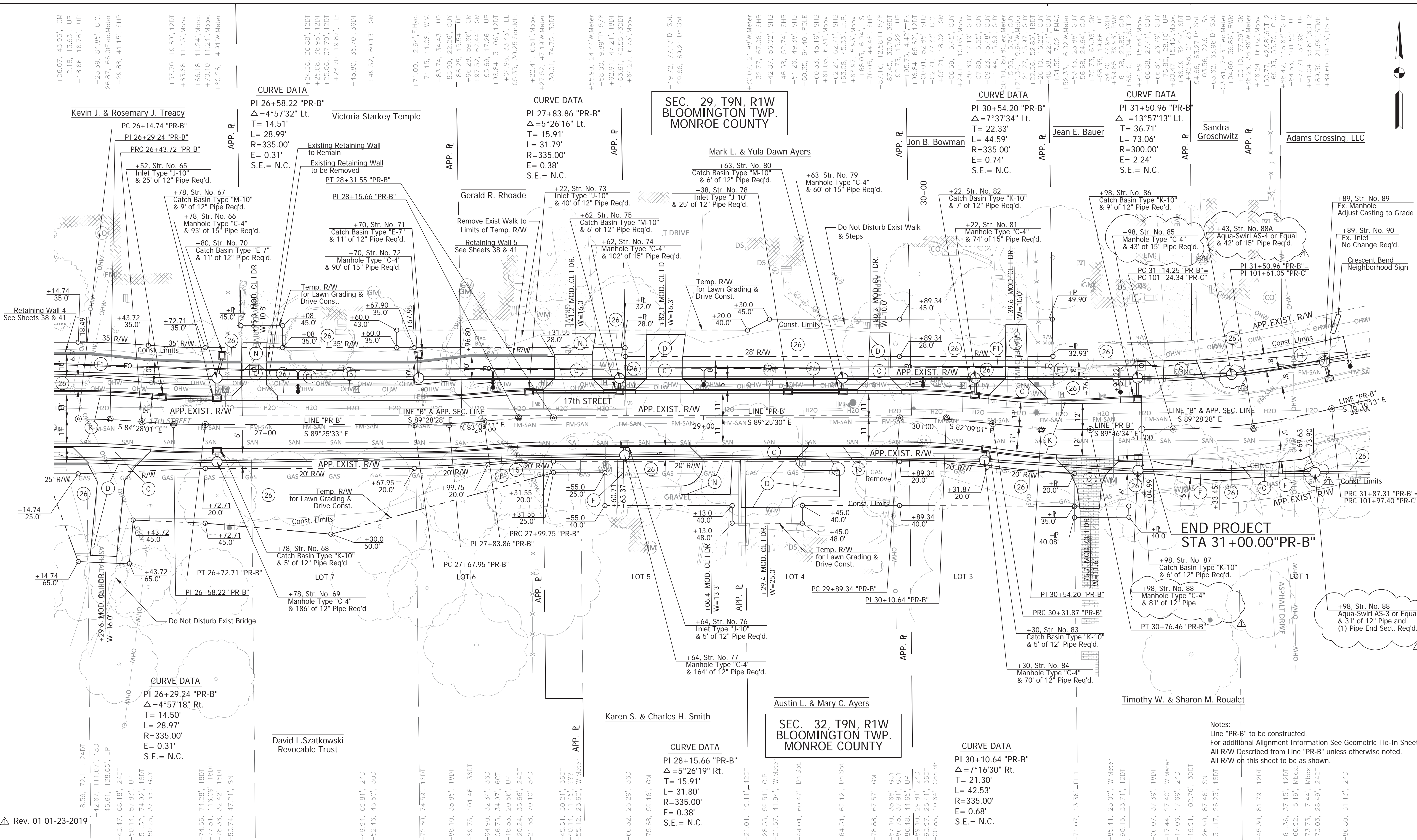


RECOMMENDED FOR APPROVAL	<i>Brad S. Farris</i>	12/28/18
DESIGNED:	BSF	DATE
CHECKED:	BSF	
	DRAWN: BSF	
	CHECKED: LAR	

CITY OF BLOOMINGTON

PLAN DETAILS
STA 26+00 TO STA 32+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	17 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



**SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY**

**SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY**

CURVE DATA

CURVE DATA

CURVE DATA

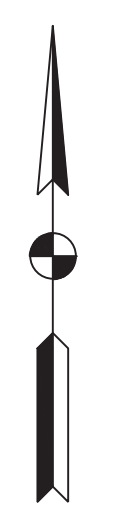
CURVE DATA

CURVE DATA

CURVE DATA

CURVE DATA

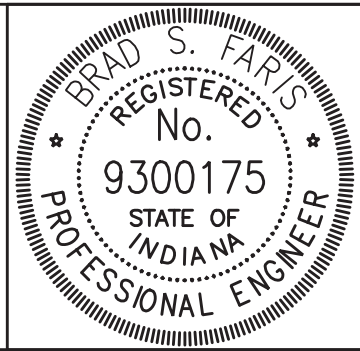
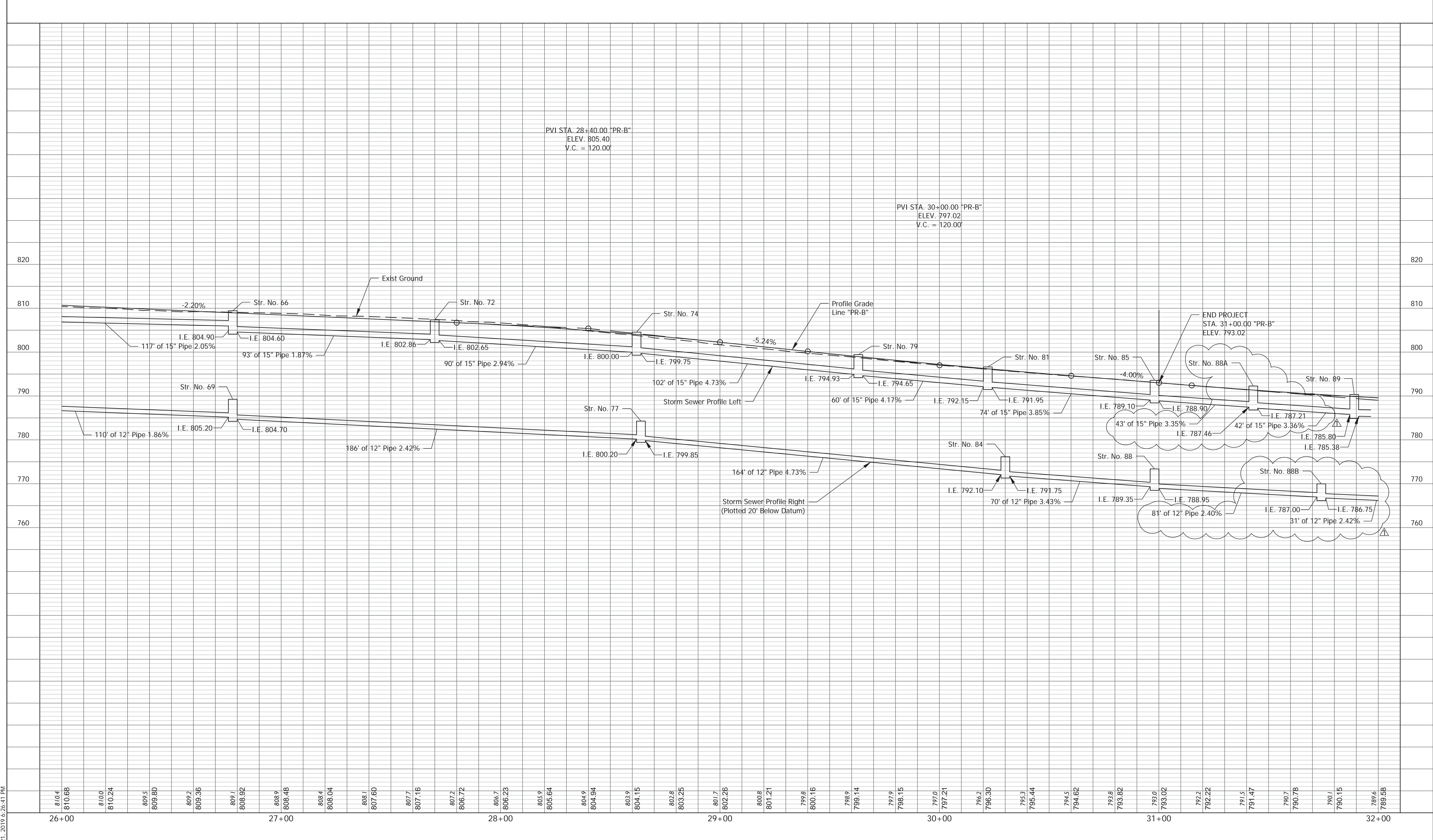
Notes:
Line "PR-B" to be constructed.
For additional Alignment Information See Geometric Tie-In Sheet.
All R/W Described from Line "PR-B" unless otherwise noted.
All R/W on this sheet to be as shown.



PLOTTED: Monday, January 21, 2019 6:26:41 PM

Rev. 01 01-23-2019

FILE: RD_PROFILE_04.DWG



RECOMMENDED FOR APPROVAL
Brad S Farris
 DESIGN ENGINEER
 DATE: 12/28/18

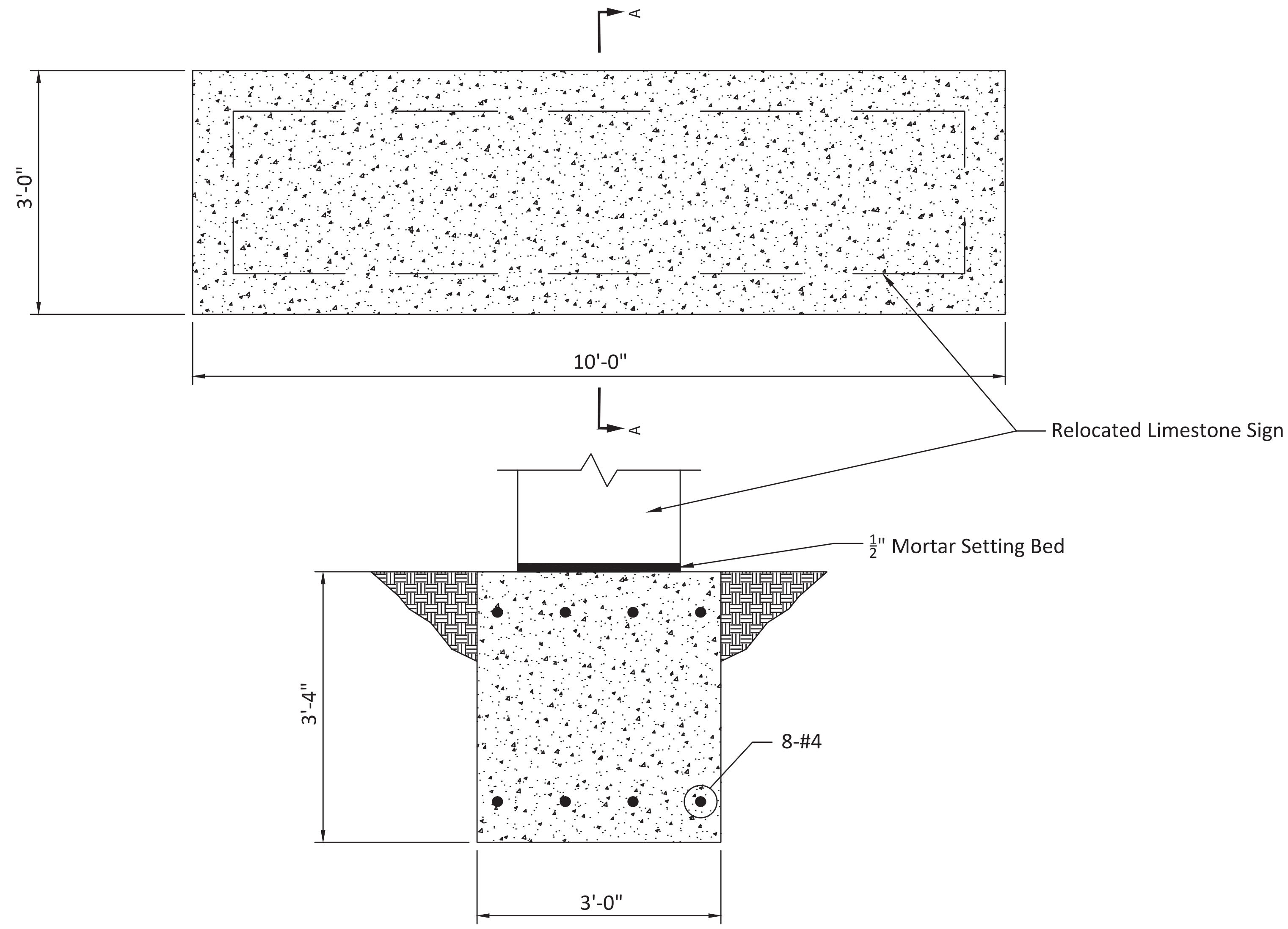
DESIGNED: BSF
 CHECKED: BSF

DRAWN: BSF
 CHECKED: LAR

CITY OF BLOOMINGTON

PROFILE SHEET
 STA 26+00 TO STA 32+00 - LINE "PR-B"

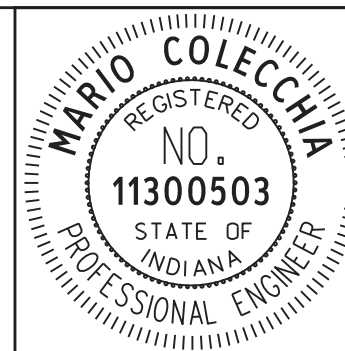
SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	18 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



SECTION A-A

RELOCATED SIGN FOUNDATION

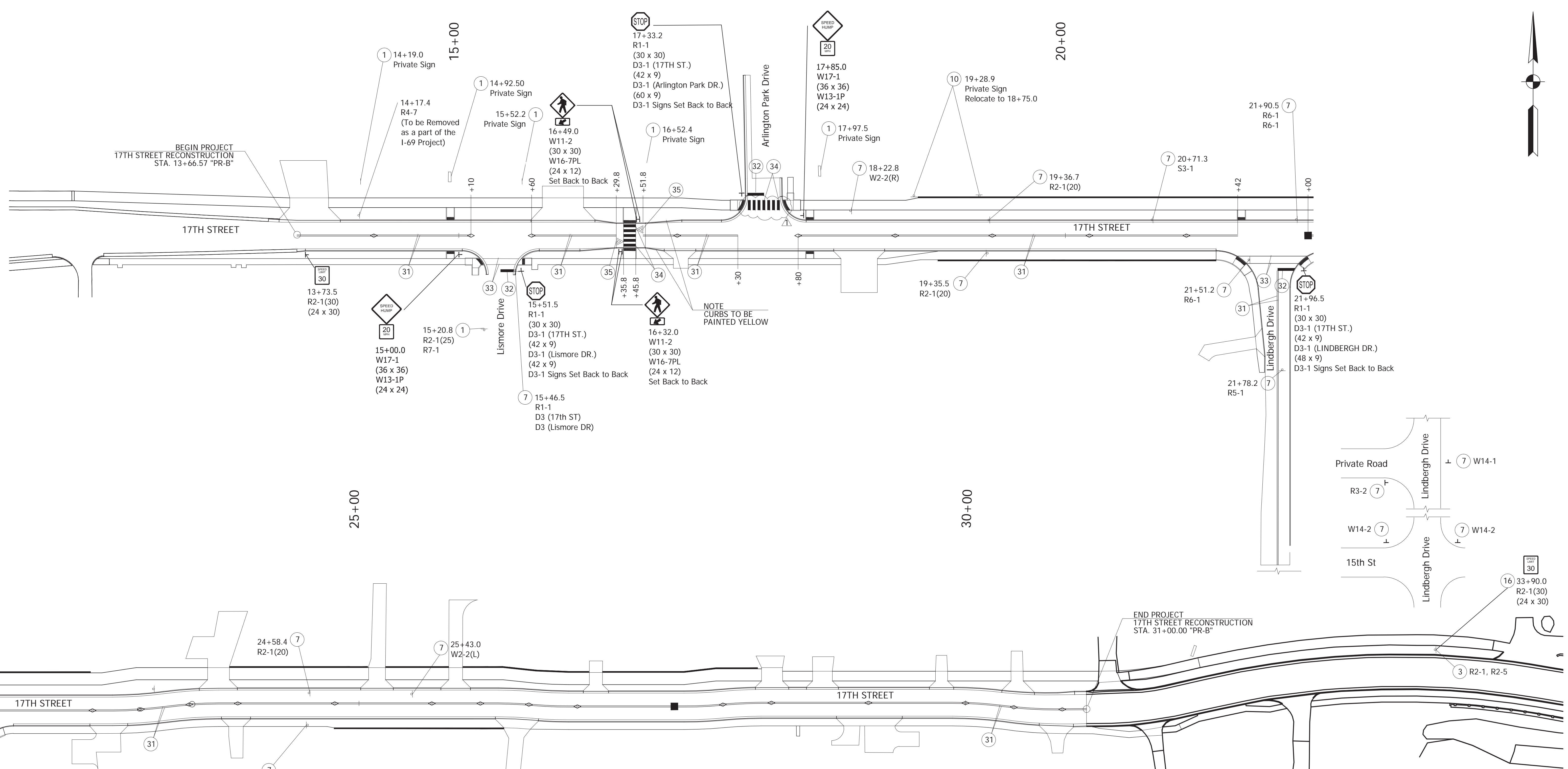
P:\05PLOT_DRAWING_TIMES_SAM.PWS



RECOMMENDED FOR APPROVAL	<i>M. Colechia</i>	DESIGN ENGINEER	01/16/19	DATE
DESIGNED: PRD		DRAWN: PRD		
CHECKED: MC		CHECKED: BSF		

CITY OF BLOOMINGTON
MISCELLANEOUS DETAILS RELOCATED SIGN FOUNDATION

SCALE 1"=1'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 41-1 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION



LEGEND

- ① No Change Required to Existing Sign and Supports
- ③ Remove Existing Street Sign from Support
- ⑦ Remove Existing Sheet Sign and Supports
- ⑩ Remove and Reset Existing Sheet Sign and Supports
- ⑯ New Sheet Sign on Exist Support
- 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
- ◇ Snowplowable Raised Pavement Marker, Two-Way, Yellow
- Snowplowable Raised Pavement Marker, Two-Way, Blue
- Existing Ground Mounted Sheet Sign
- ⊥ Proposed Ground Mounted Sheet Sign

TOTALS:

③	Remove Existing Street Sign from Support	1 EACH
⑦	Remove Existing Sheet Sign and Supports	15 EACH
⑩	Remove and Reset Existing Sheet Sign and Supports	1 EACH

PLOTTED: Monday, January 21, 2019 1:53:12 PM

Rev. 01 01-23-2019



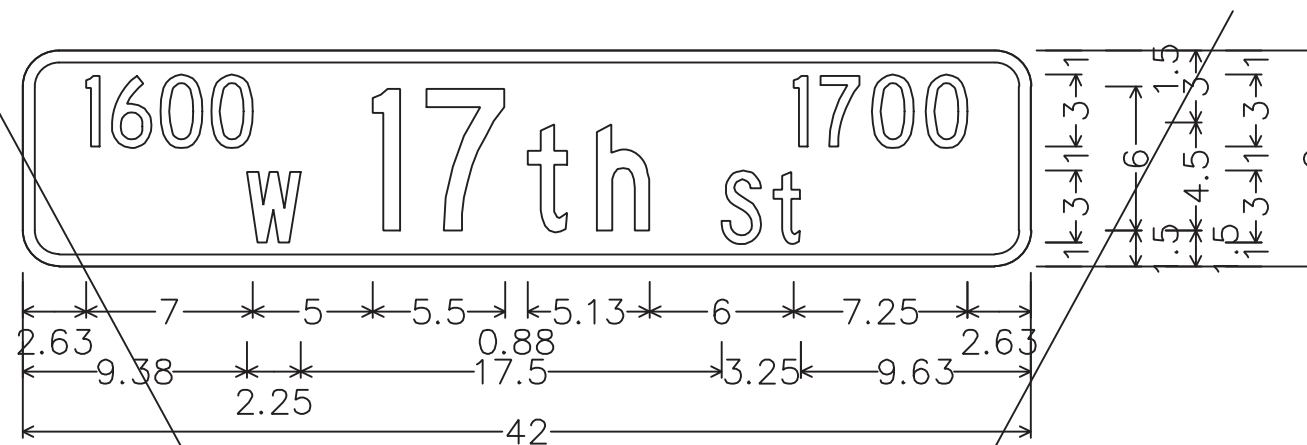
RECOMMENDED FOR APPROVAL	<i>Brad S Farris</i>	12/28/18
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: BSF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

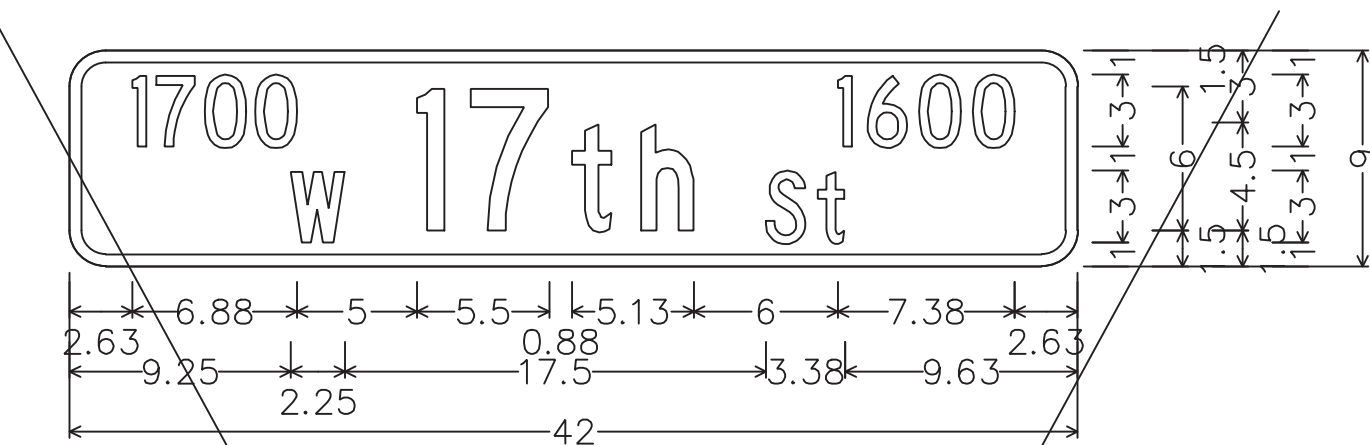
PAVEMENT MARKING & SIGNING DETAILS

LINE "PR-B"

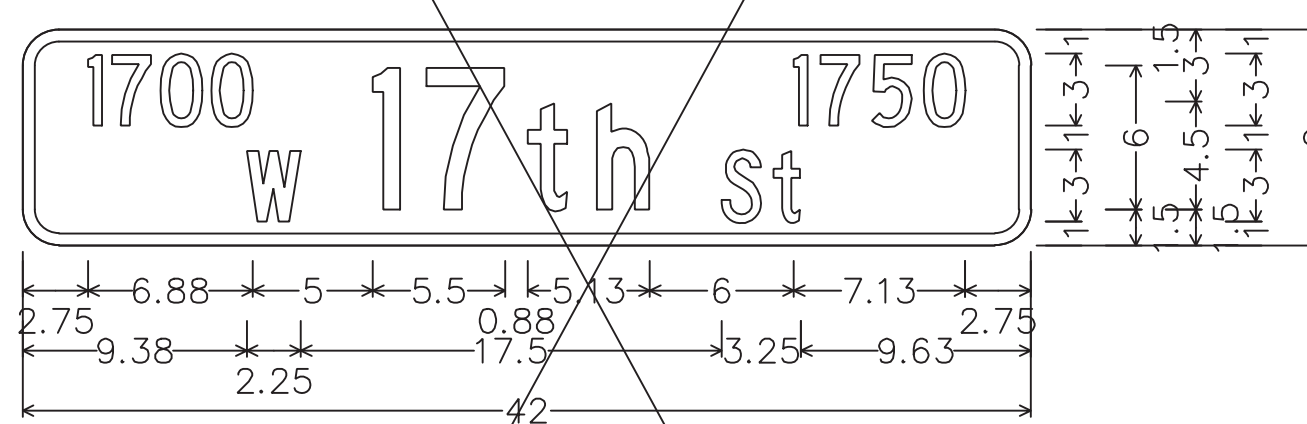
SCALE	BRIDGE FILE
1"=40'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	42 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



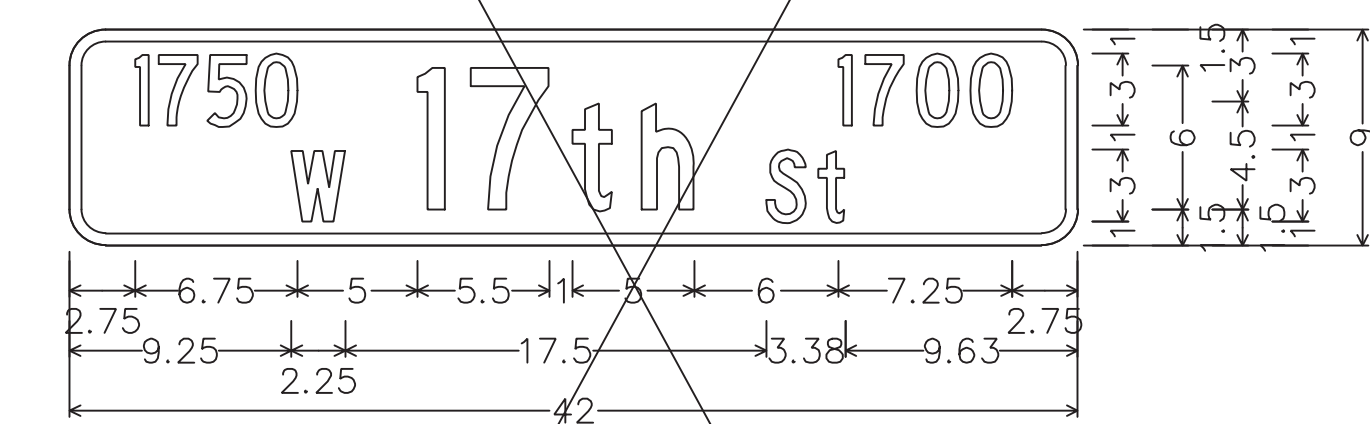
Identifier : 1600 W 17th St 1700;
 1.50" Radius, 0.50" Border, White on Green;
 [1600] C 75} spacing; [W] C; [17th] C; [1700] C; [St] C;



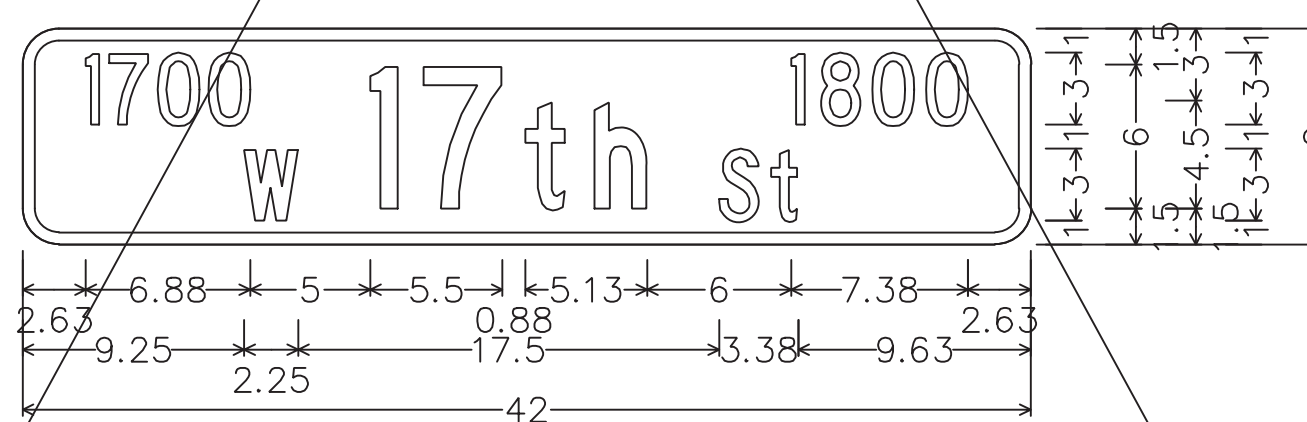
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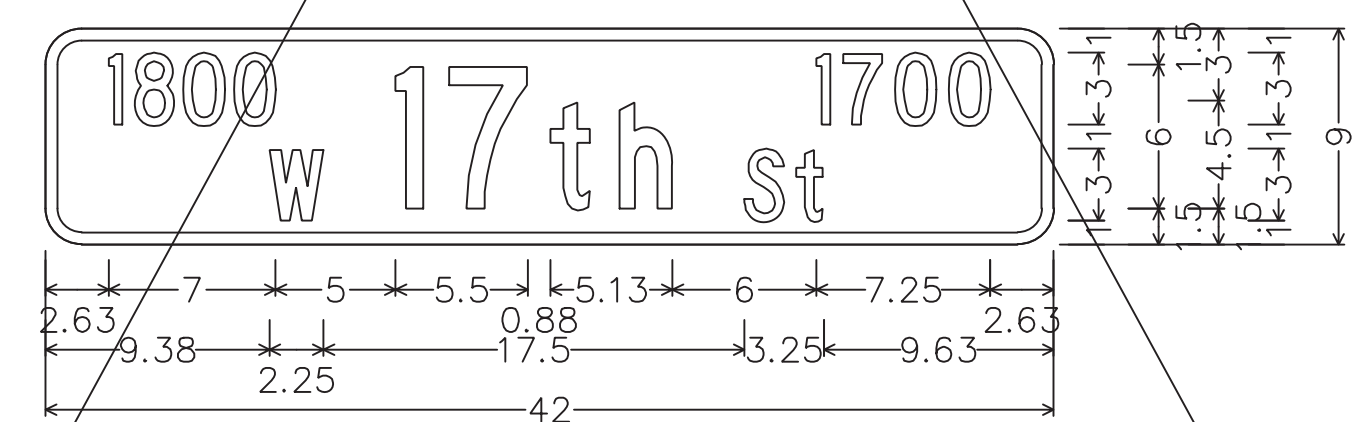
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 1.50" Radius, 0.50" Border, White on Green;
 [1700] C 75} spacing; [W] C; [17th] C; [1750] C; [St] C;



Identifier : 1750 W 17th St 1700;
 1.50" Radius, 0.50" Border, White on Green;
 [1750] C 75} spacing; [W] C; [17th] C; [1700] C; [St] C;



Identifier : 1700 W 17th St 1800;
 1.50" Radius, 0.50" Border, White on Green;
 [1700] C 75} spacing; [W] C; [17th] C; [1800] C; [St] C;



Identifier : 1800 W 17th St 1700;
 1.50" Radius, 0.50" Border, White on Green;
 [1800] C 75} spacing; [W] C; [17th] C; [1700] C; [St] C;

See City of Bloomington Standard Drawing No. SS-1 included in Addendum #1.
 Use Street Name and Block information as shown with the format as noted on
 Standard Drawing No. SS-1 to develop new shop drawings.
 Shop drawing to be submitted for review and approval prior to manufacturing
 and installation of signs.

PLOTTED: Tuesday, January 22, 2019 12:04:24 PM

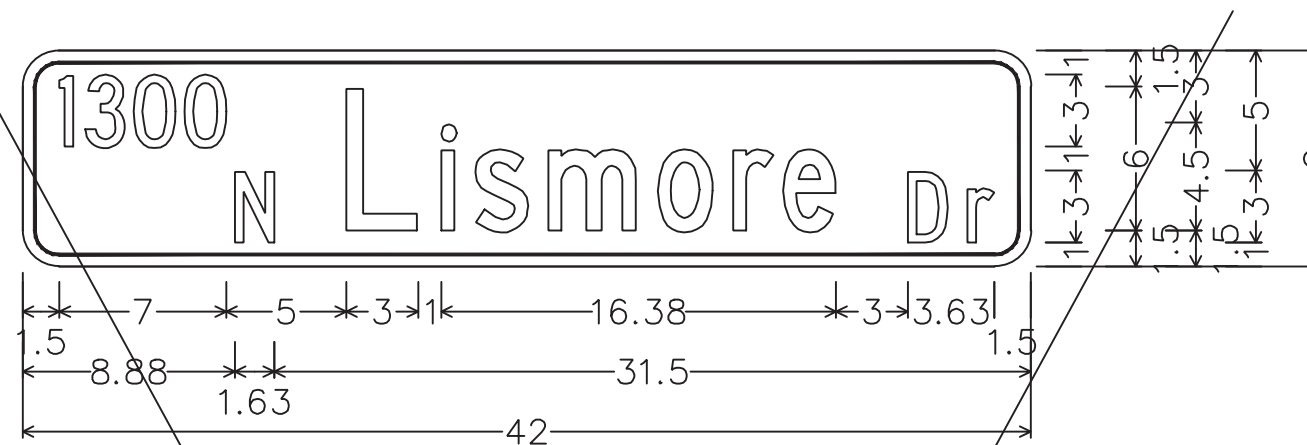
Rev. 01 01-23-2019



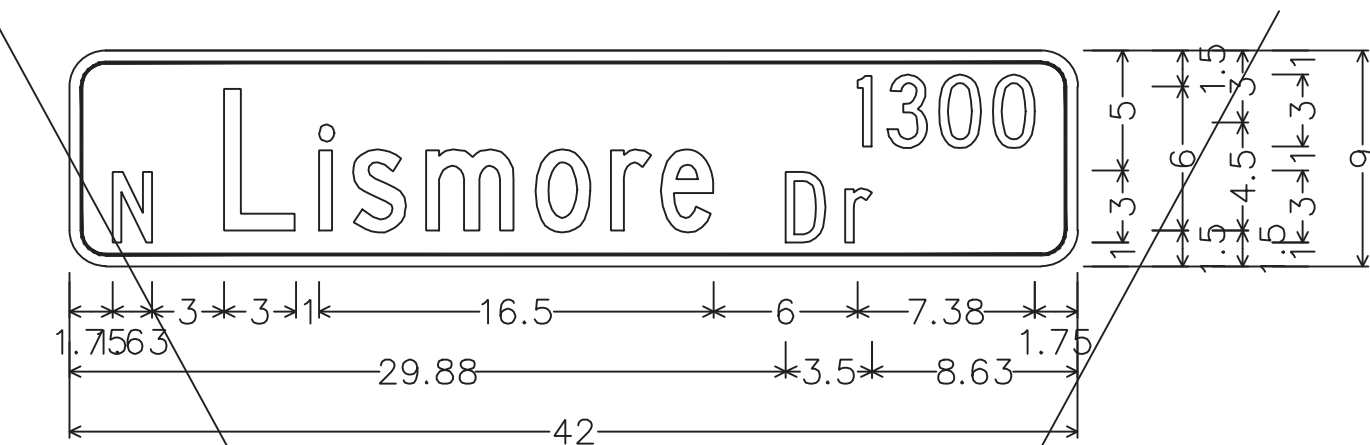
RECOMMENDED FOR APPROVAL: *Brad S Fazio* 12/28/18
 DESIGN ENGINEER DATE
 DESIGNED: BSF DRAWN: BSF
 CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON
 SIGN DETAILS

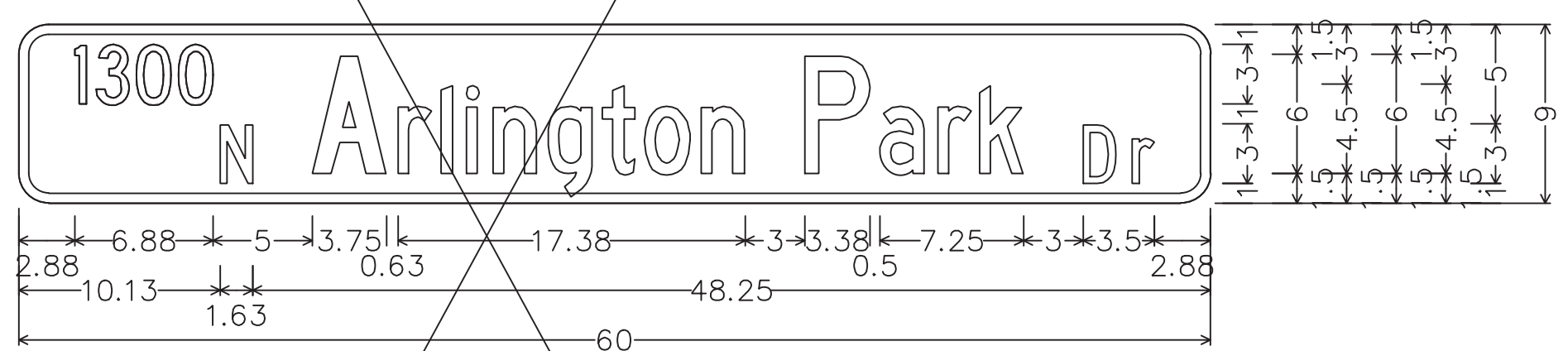
SCALE 1"=40'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 43 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION



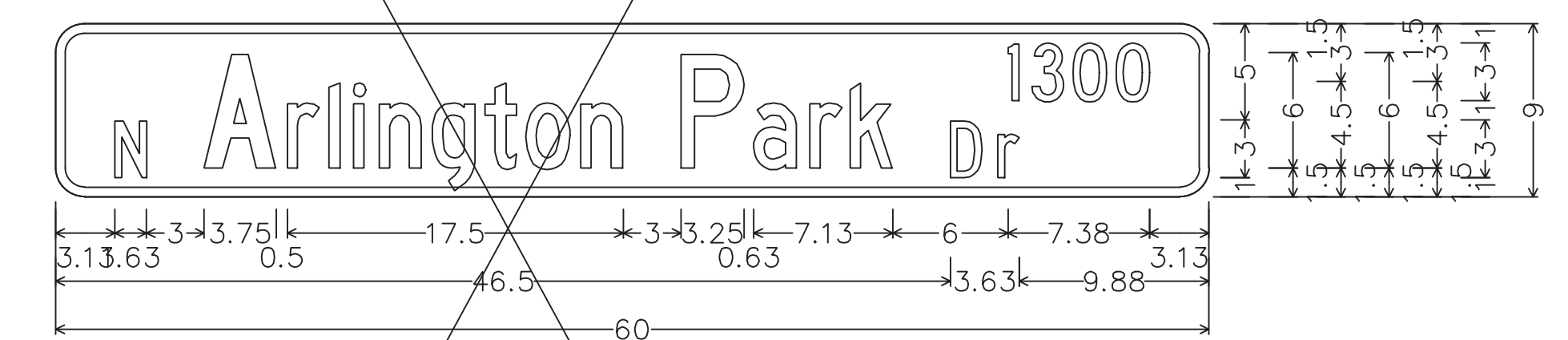
Identifier : 1300 N Arlington Park Dr;
 1.50" Radius, 0.50" Border, White on Green;
 [1300] C 75} spacing; [N] C; [Lismore] C 75} spacing;
 [] C; [Dr] C;



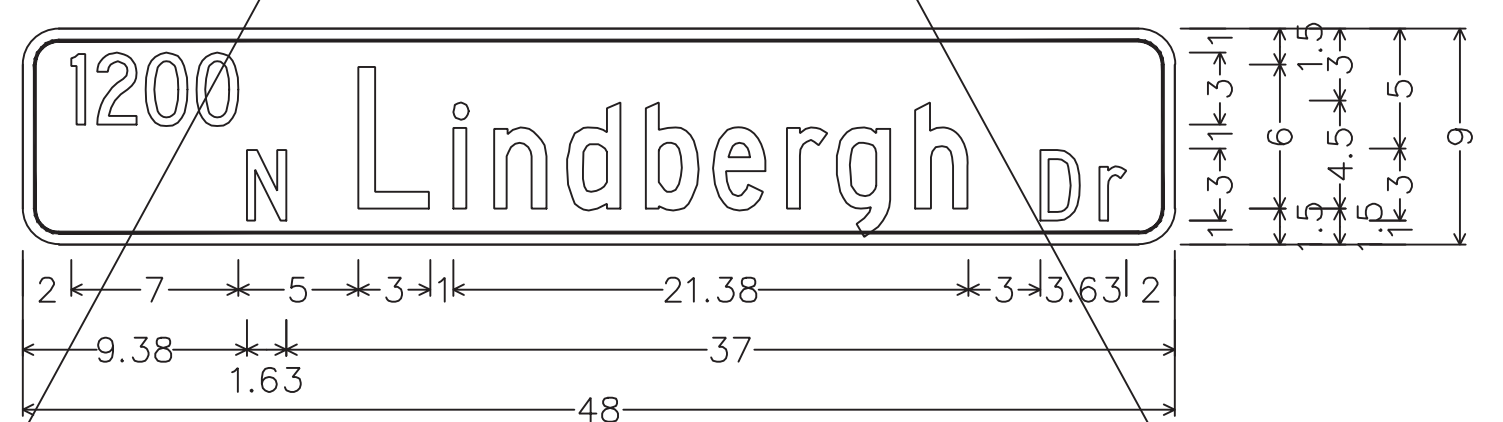
Identifier : 1300 N Arlington Park Dr;
 1.50" Radius, 0.50" Border, White on Green;
 [] C 75} spacing; [N] C; [Lismore] C 75} spacing;
 [1300] C; [Dr] C;



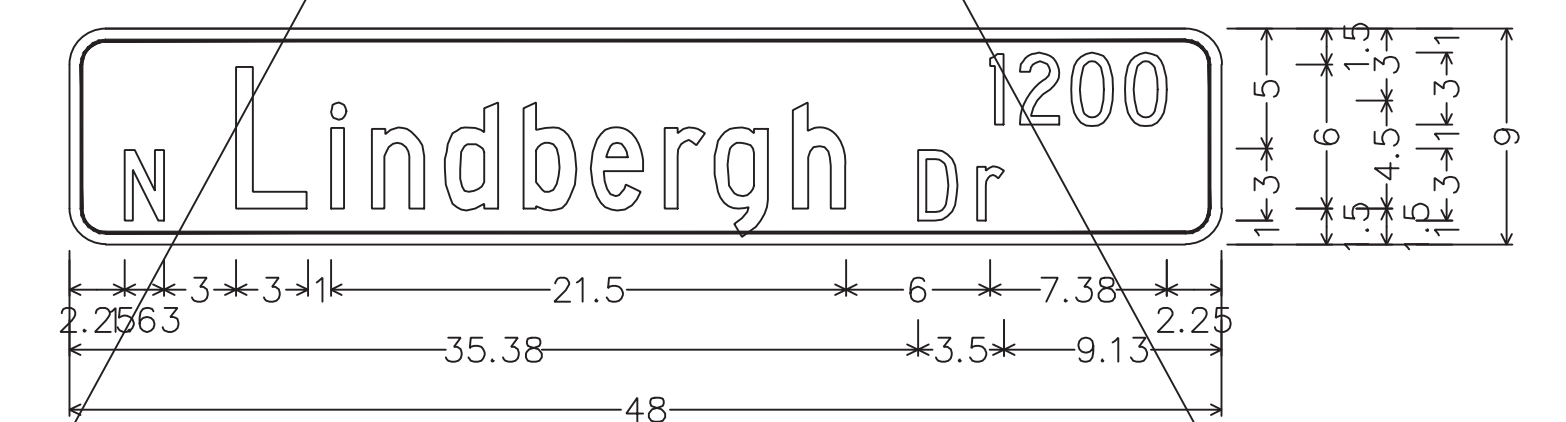
Identifier : 1300 N Arlington Park Dr;
 1.50" Radius, 0.50" Border, White on Blue;
 [1300] C 75} spacing; [N] C; [Arlington Park] C 50} spacing; [] C; [Dr] C;



Identifier : N Arlington Park Dr 1300;
 1.50" Radius, 0.50" Border, White on Blue;
 [] C 75} spacing; [N] C; [Arlington Park] C 50} spacing; [1300] C; [Dr] C;



Identifier : 1300 N Arlington Park Dr;
 1.50" Radius, 0.50" Border, White on Green;
 [1200] C 75} spacing; [N] C; [Lindbergh] C 75} spacing; [] C;
 [Dr] C;



Identifier : 1300 N Arlington Park Dr;
 1.50" Radius, 0.50" Border, White on Green;
 [] C 75} spacing; [N] C; [Lindbergh] C 75} spacing; [1200] C;
 [Dr] C;

See City of Bloomington Standard Drawing No. SS-1 included in Addendum #1.
 Use Street Name and Block information as shown with the format as noted on
 Standard Drawing No. SS-1 to develop new shop drawings.
 Shop drawing to be submitted for review and approval prior to manufacturing
 and installation of signs.

PLOTTED: Tuesday, January 22, 2019 12:01:57 PM

Rev. 01 01-23-2019



RECOMMENDED FOR APPROVAL: *Brad S Farris* 12/28/18
 DESIGN ENGINEER DATE
 DESIGNED: BSF DRAWN: BSF
 CHECKED: BSF CHECKED: LAR

CITY OF BLOOMINGTON
 SIGN DETAILS

SCALE 1"=40'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 44 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

BEGIN INCIDENTAL CONSTRUCTION
POT 84+54 "S-8-A"

FIRST AMERICAN PROPERTIES, LLC

BEGIN PROJECT
POT 13+66.58 "PR-B" =

60' ROADWAY &
UTILITY EASEMENT

CURVE DATA
PI 13+19.02 "PR-B"
 $\Delta = 1^{\circ}34'13"$ Rt.
T= 28.45'
L= 56.89'
R= 2075.62'
E= 0.20'
S.E.= N.C.

STATE OF INDIANA

FIRST AMERICAN PROPERTIES, LLC

PI 11+45.33 "PR-B" =
PI 89+11.53 "S-8-A"

PI 13+19.02 "PR-B" =
POT 90+85.22 "S-8-A"

PI 12+90.57 "PR-B" =
PT 90+56.77 "S-8-A"

Sta. 84+54.37.20' Lt. "S-8-A"
Exist. Fiber Optic Manhole
385' of Dual Run 4" PVC Schedule 80 Conduit Req'd.

Sta. 10+72.41.00' Lt. "PR-B"
Fiber Optic Manhole &
414' of Dual Run 4" PVC Schedule 80 Conduit Req'd.

142' of 2" PVC Electrical
Grade Conduit Req'd.

149' of 2" PVC Electrical
Grade Conduit Req'd.

Equation:
POB 10+00.00 "PR-B" =
PC 87+66.20 "S-8-A"

117' of 2" PVC Electrical
Grade Conduit Req'd.

85+00

APP. SEC. LINE
87+00

10+00

88+00

11+00

89+00

12+00

90+00

13+00

91+00

14+

17th STREET

LINE "PR-B"
S89°27'10"E

PC 84+54.14 "S-8-A"

DUSTIN DEVITT

LOT 50
COMMON
SPACE
CRESCENT POINTE
HOUSING PARTNERS, LP

LOT 1

LOT 44

LOT 45

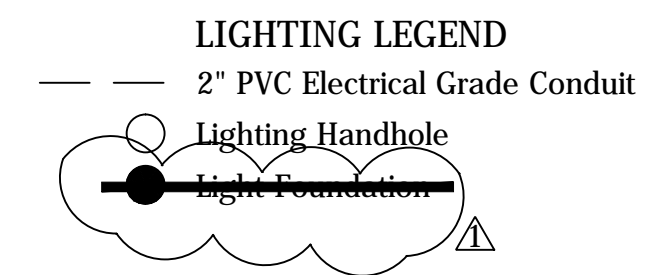
CRESCENT POINTE
HOUSING PARTNERS, LP

LOT 2

LOT 46
COMMON OPEN SPACE

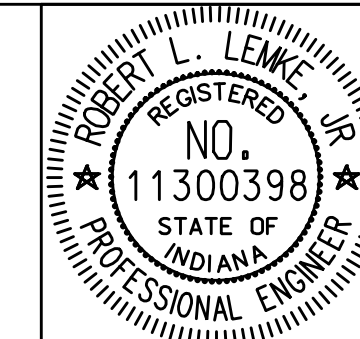
CURVE DATA
PI 11+45.33 "PR-B"
 $\Delta = 3^{\circ}19'47"$ Lt.
T= 145.33'
L= 290.57'
R= 5000.00'
E= 2.11'
S.E.= N.C.

PLATTED ALLEY



- LIGHTING NOTES:
1. The 2" PVC Electrical Grade Conduit is to be run in the same trench as the proposed Fiber Optic Conduit.
 2. Contractor shall install One (1) two-inch (2") PVC Electrical Grade conduit from the Power Pole to the lighting handhole as shown on the plans.
 3. Only sweep 90 degree bends shall be allowed.

Rev. 01 01-23-2019



RECOMMENDED FOR APPROVAL	<i>Robert L. Lenke</i>	01-23-2019
DESIGNED:	BSF	DRAWN:
CHECKED:	BSF	CHECKED:
		LAR

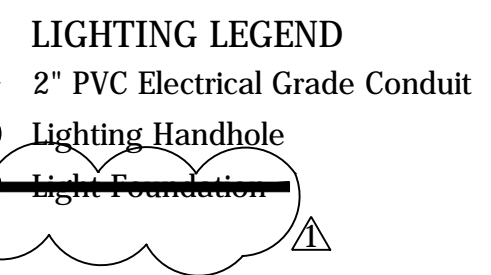
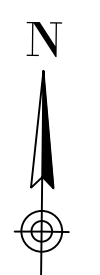
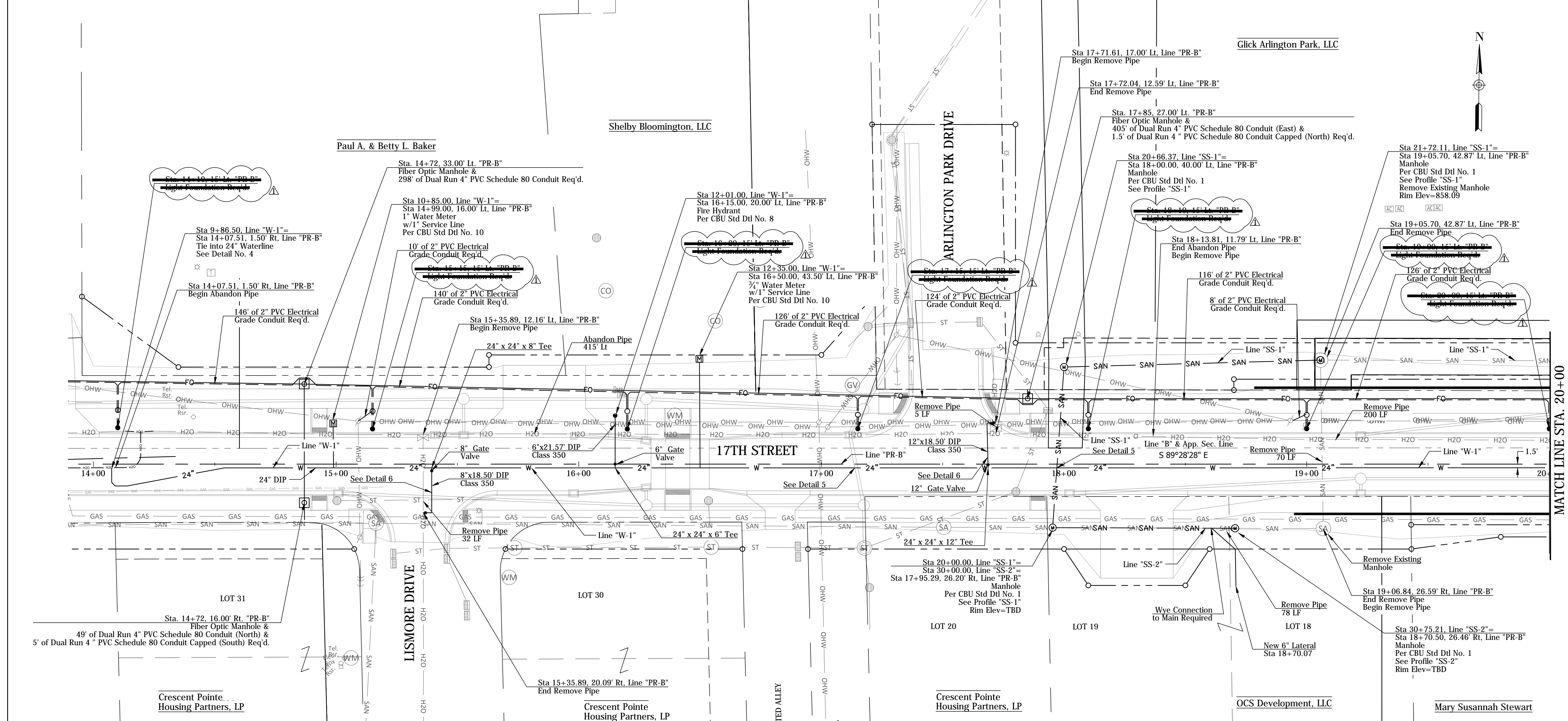
CITY OF BLOOMINGTON

UTILITY PLAN
STA 10+00 TO STA 14+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	46 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

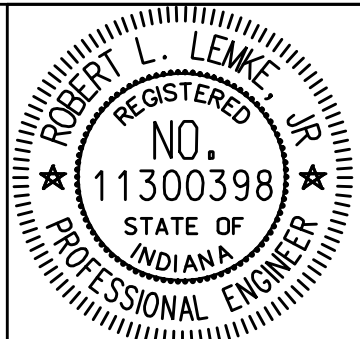
PLOTTED: Tuesday, January 22, 2019 6:58:22 PM

FILE: UT_PLAN_01.DWG



- LIGHTING NOTES:**
- The 2" PVC Electrical Grade Conduit is to be run in the same trench as the proposed Fiber Optic Conduit.
 - Contractor shall install One (1) two-inch (2") PVC Electrical Grade conduit from the Power Pole to the lighting handhole as shown on the plans.
 - Only sweep 90 degree bends shall be allowed.

Rev. 01 01-23-2019



RECOMMENDED FOR APPROVAL	<i>Robert L. Leaks</i>	01-23-2019	
DESIGNED:	LTM	DRAWN:	CDF
CHECKED:	GAG	CHECKED:	LTM

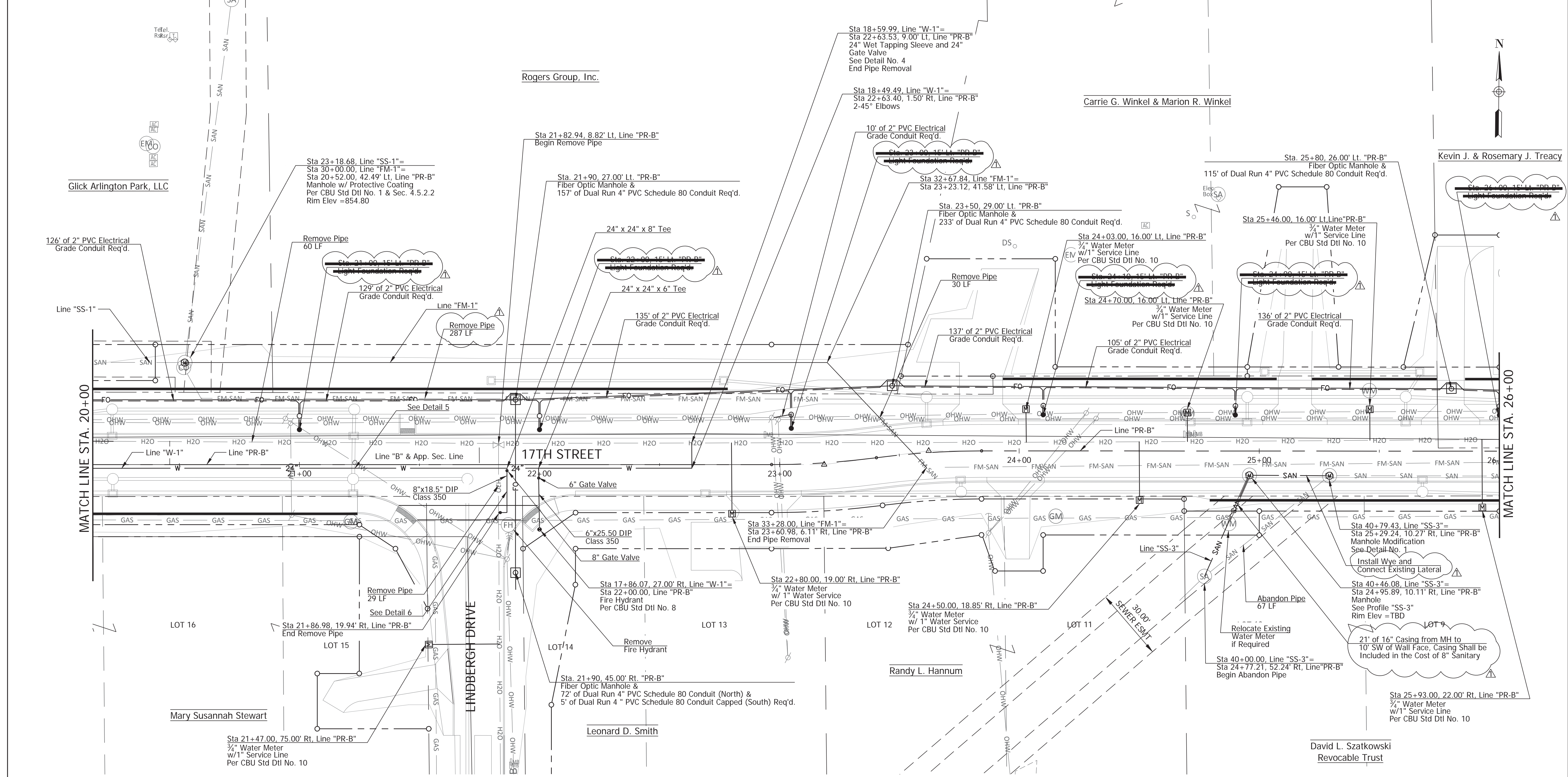
CITY OF BLOOMINGTON

UTILITY PLAN
STA 14+00 TO STA 20+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	47 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Tuesday, January 22, 2019 6:55:20 PM

FILE: UT_PLAN_02.DWG



LIGHTING LEGEND
 --- 2" PVC Electrical Grade Conduit
 ○ Lighting Handhole
 ☁ Light Foundation Req'd

LIGHTING NOTES:
 1. The 2" PVC Electrical Grade Conduit is to be run in the same trench as the proposed Fiber Optic Conduit.
 2. Contractor shall install One (1) two-inch (2") PVC Electrical Grade conduit from the Power Pole to the lighting handhole as shown on the plans.
 3. Only sweep 90 degree bends shall be allowed.

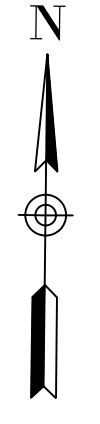
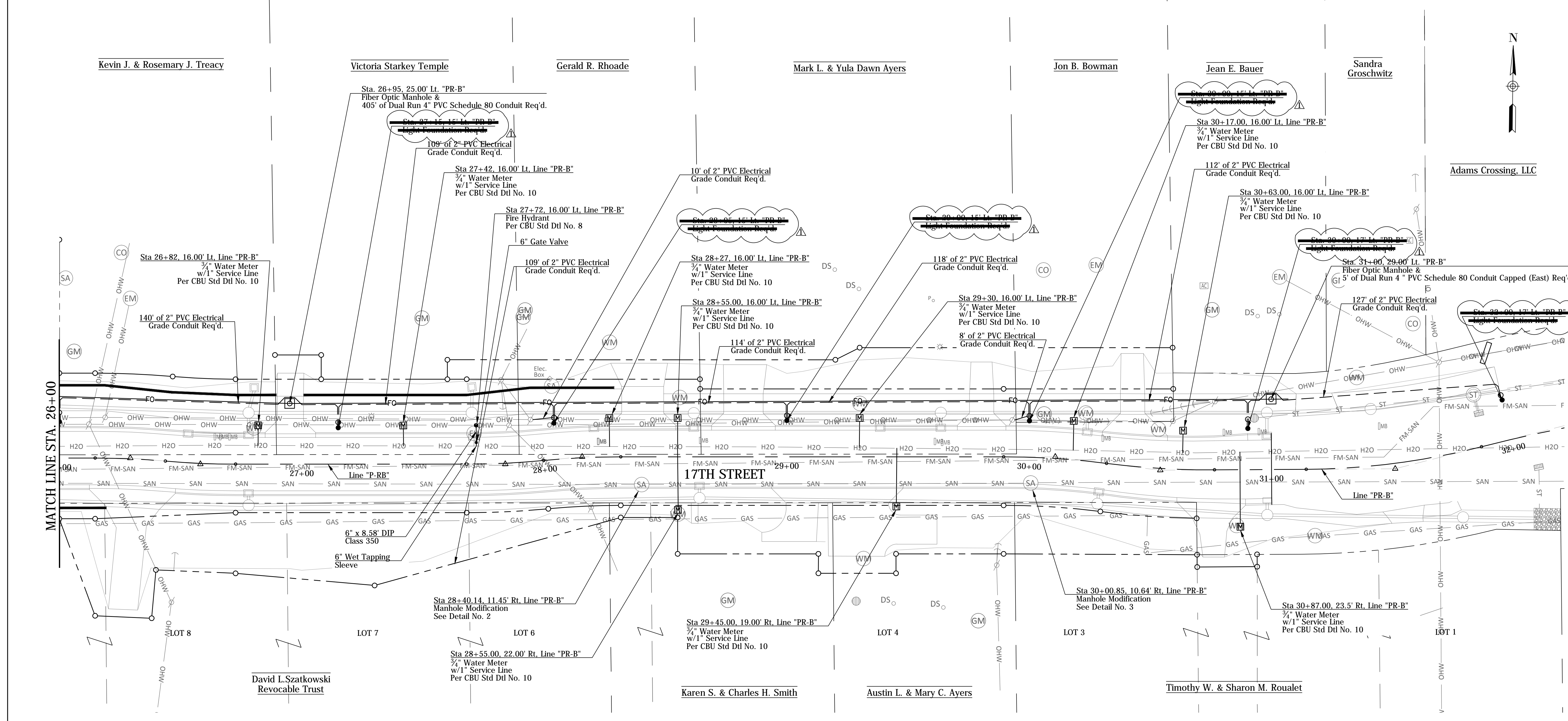
Rev. 01 01-23-2019



RECOMMENDED FOR APPROVAL: *Robert L. Levek* 01-23-2019
 DESIGN ENGINEER DATE
 DESIGNED: LTM DRAWN: CDF
 CHECKED: GAG CHECKED: LTM

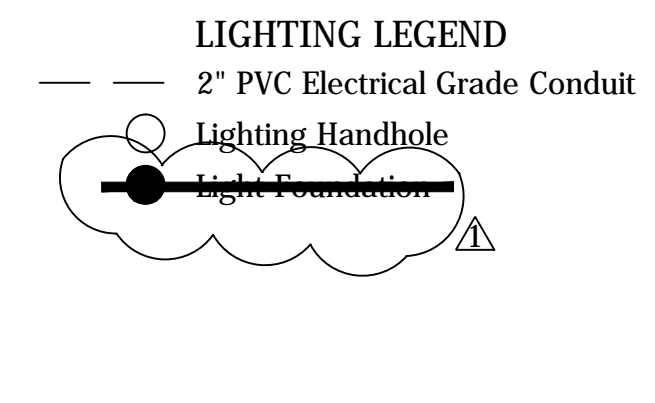
CITY OF BLOOMINGTON
 UTILITY PLAN
 STA 20+00 TO STA 26+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	48 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



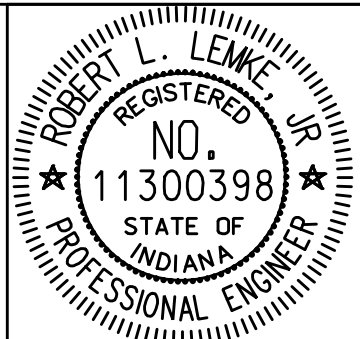
Adams Crossing, LLC

MATCH LINE STA. 26+00



- LIGHTING NOTES:**
1. The 2" PVC Electrical Grade Conduit is to be run in the same trench as the proposed Fiber Optic Conduit.
 2. Contractor shall install One (1) two-inch (2") PVC Electrical Grade conduit from the Power Pole to the lighting handhole as shown on the plans.
 3. Only sweep 90 degree bends shall be allowed.

Rev. 01 01-23-2019



RECOMMENDED FOR APPROVAL: *Robert L. Leuk* 01-23-2019
 DESIGN ENGINEER DATE

DESIGNED: LTM DRAWN: CDF
 CHECKED: GAG CHECKED: LTM

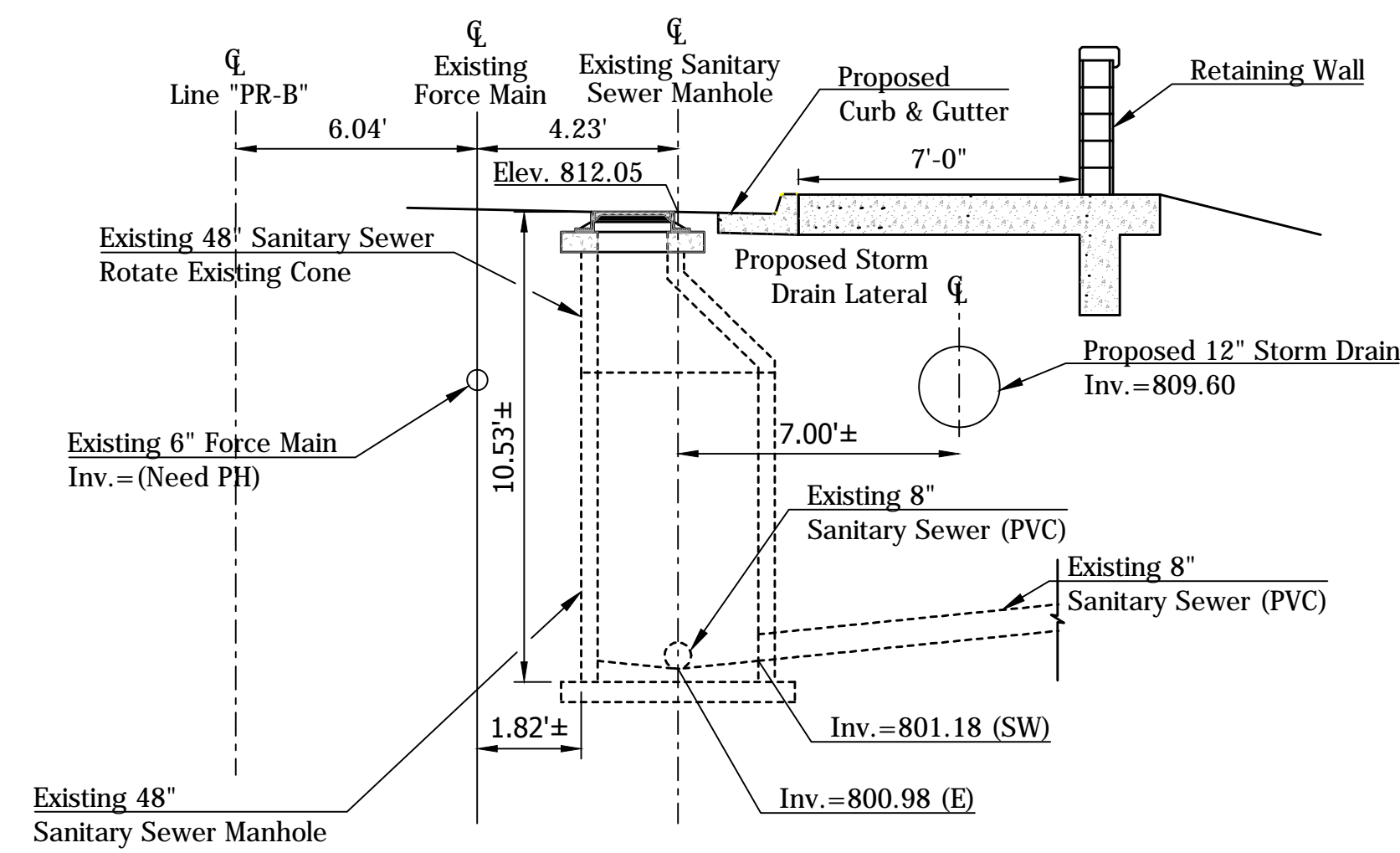
CITY OF BLOOMINGTON

UTILITY PLAN
 STA 26+00 TO STA 32+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	49 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

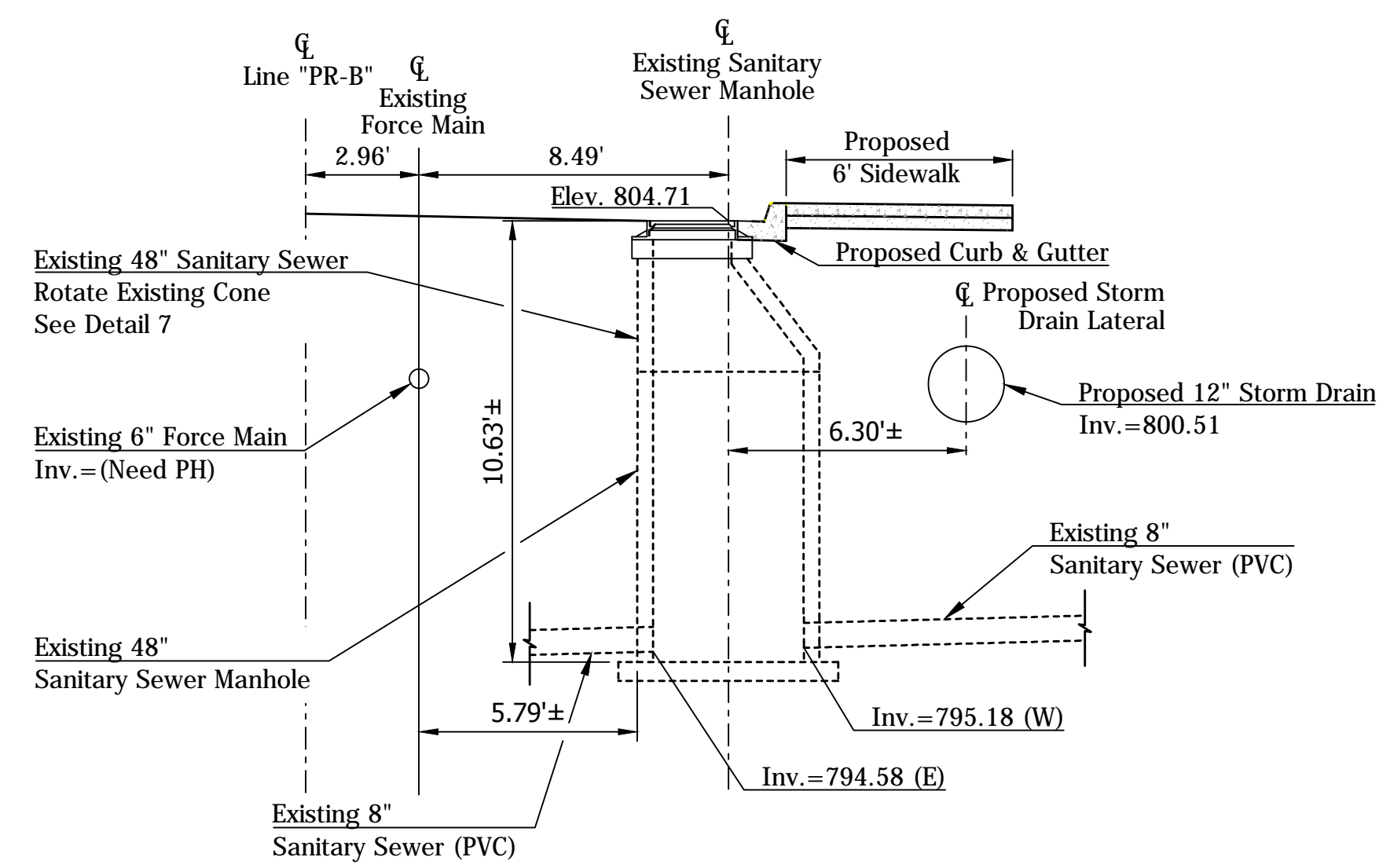
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FILE: UT_PLAN_04.DWG



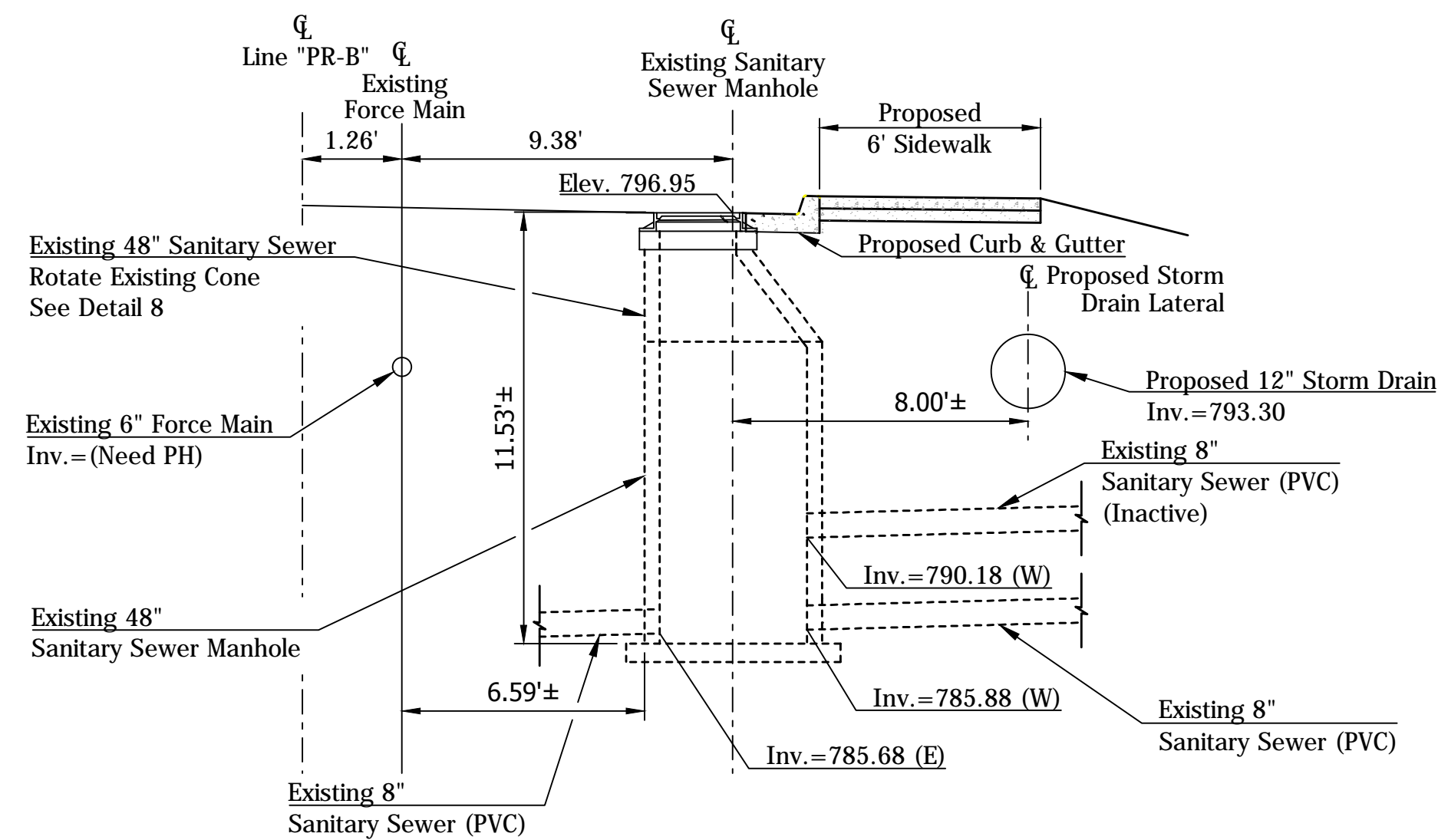
STATION 25+29.24 LINE "PR-B"
EXISTING SANITARY SEWER
MANHOLE MODIFICATION

DETAIL 1



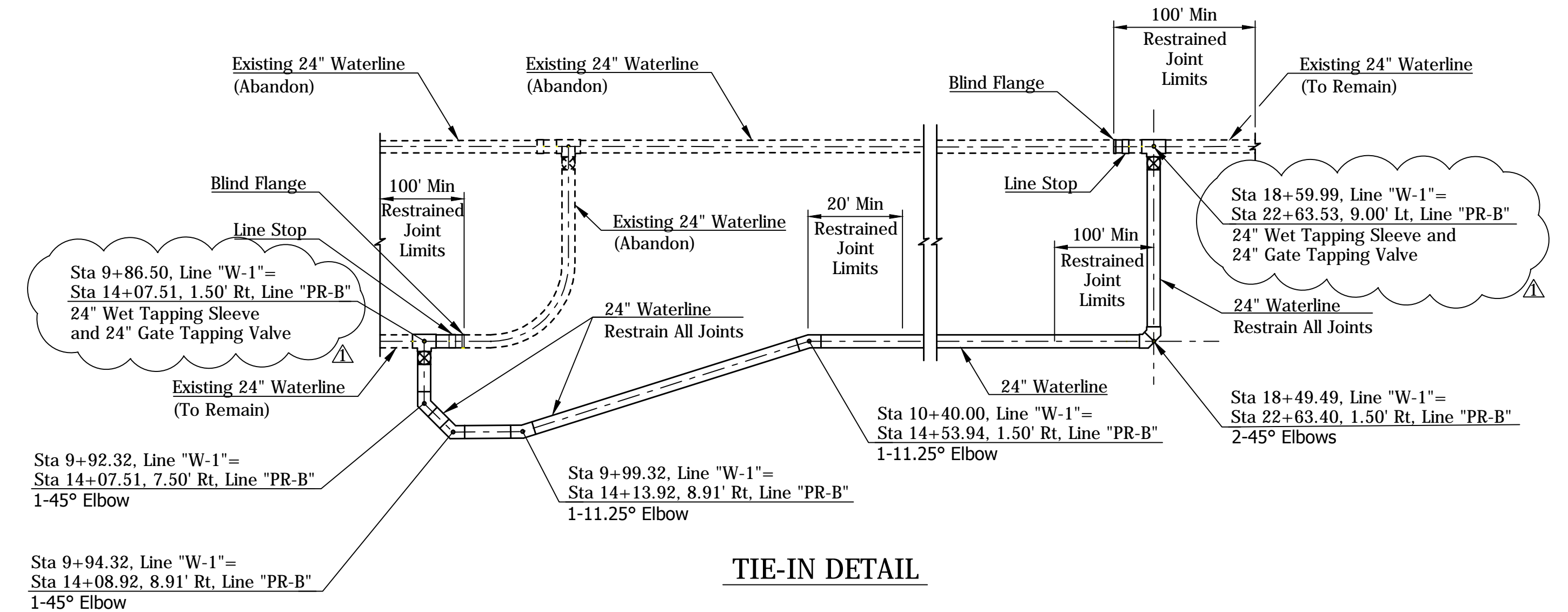
STATION 28+40.14 LINE "PR-B"
EXISTING SANITARY SEWER
MANHOLE MODIFICATION

DETAIL 2



STATION 30+00.85 LINE "PR-B"
EXISTING SANITARY SEWER
MANHOLE MODIFICATION

DETAIL 3

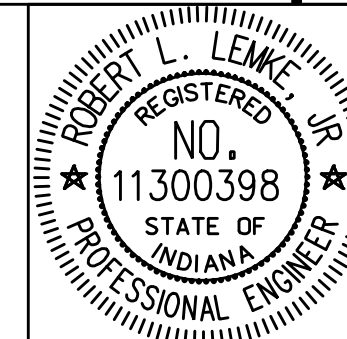


TIE-IN DETAIL

DETAIL 4

*Note: Site Conditions May Require Horizontal Tapping Valves. Contractor to Verify Depth Before Ordering.

Rev. 01 01-23-2019

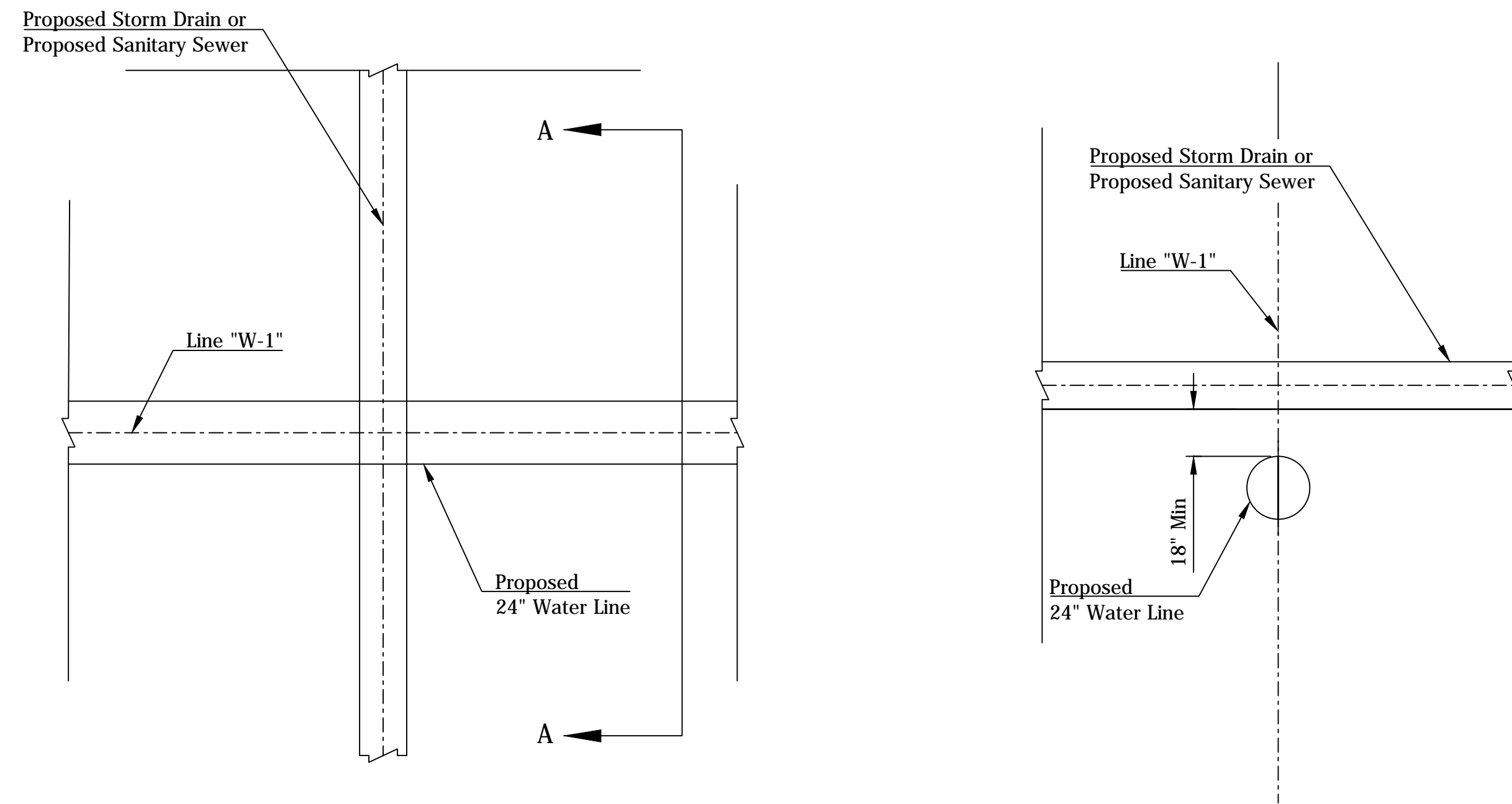


RECOMMENDED FOR APPROVAL	<i>Robert L. Lewicki</i>	01-23-2019
	DESIGN ENGINEER	DATE
DESIGNED: BSF	DRAWN: BSF	
CHECKED: BSF	CHECKED: LAR	

CITY OF BLOOMINGTON

UTILITY DETAILS

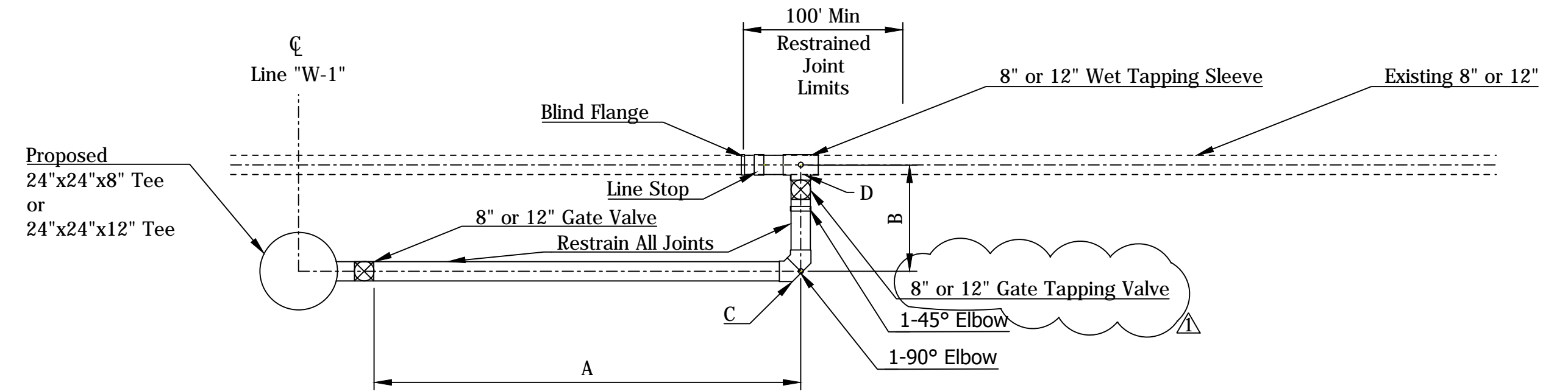
SCALE	BRIDGE FILE
N.T.S.	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	52 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION



DETAIL 5

STATION 13+00.46 & 17+08.55 LINE "W-1"
STORM SEWER CROSSINGS
STATION 13+83.13 LINE "W-1"
SANITARY SEWER CROSSING

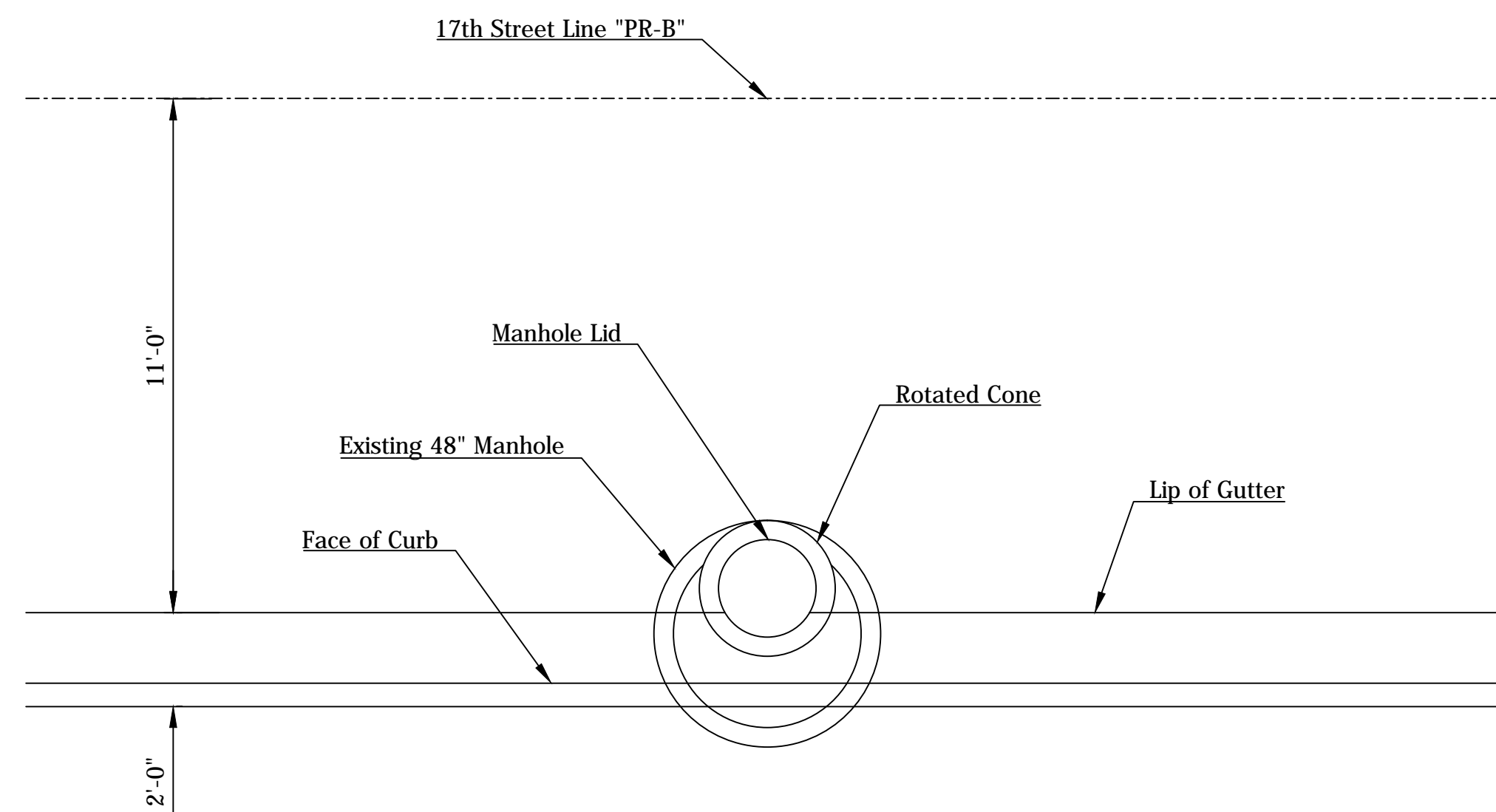
SECTION A-A



DETAIL 6

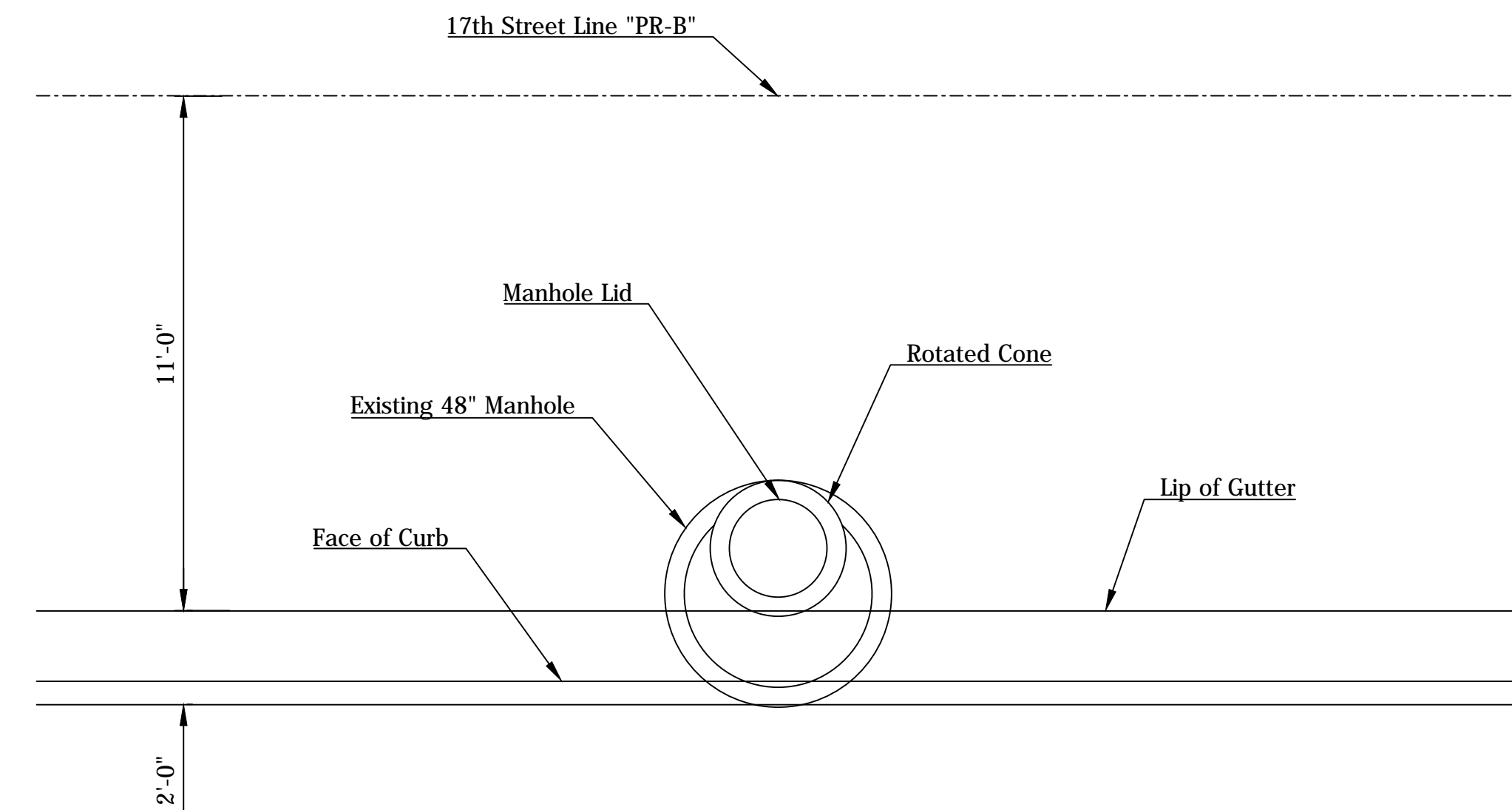
WATERLINE DATA CHART

STATION LINE "W-1"	SIDE	OFFSET (FT)		INVERT	
		A	B	C	D
11+21.96	RIGHT	18.50	2.85	856.01	858.86
13+59.00	LEFT	18.50	3.47	848.01	851.48
17+69.04	RIGHT	18.50	4.58	829.27	833.85



DETAIL 7

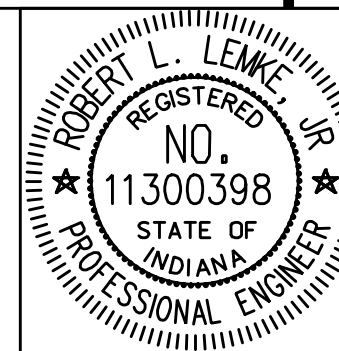
MANHOLE AT STATION 28+40.14 LINE "PR-B"



DETAIL 8

MANHOLE AT STATION 30+00.85 LINE "PR-B"

Rev. 01 01-23-2019



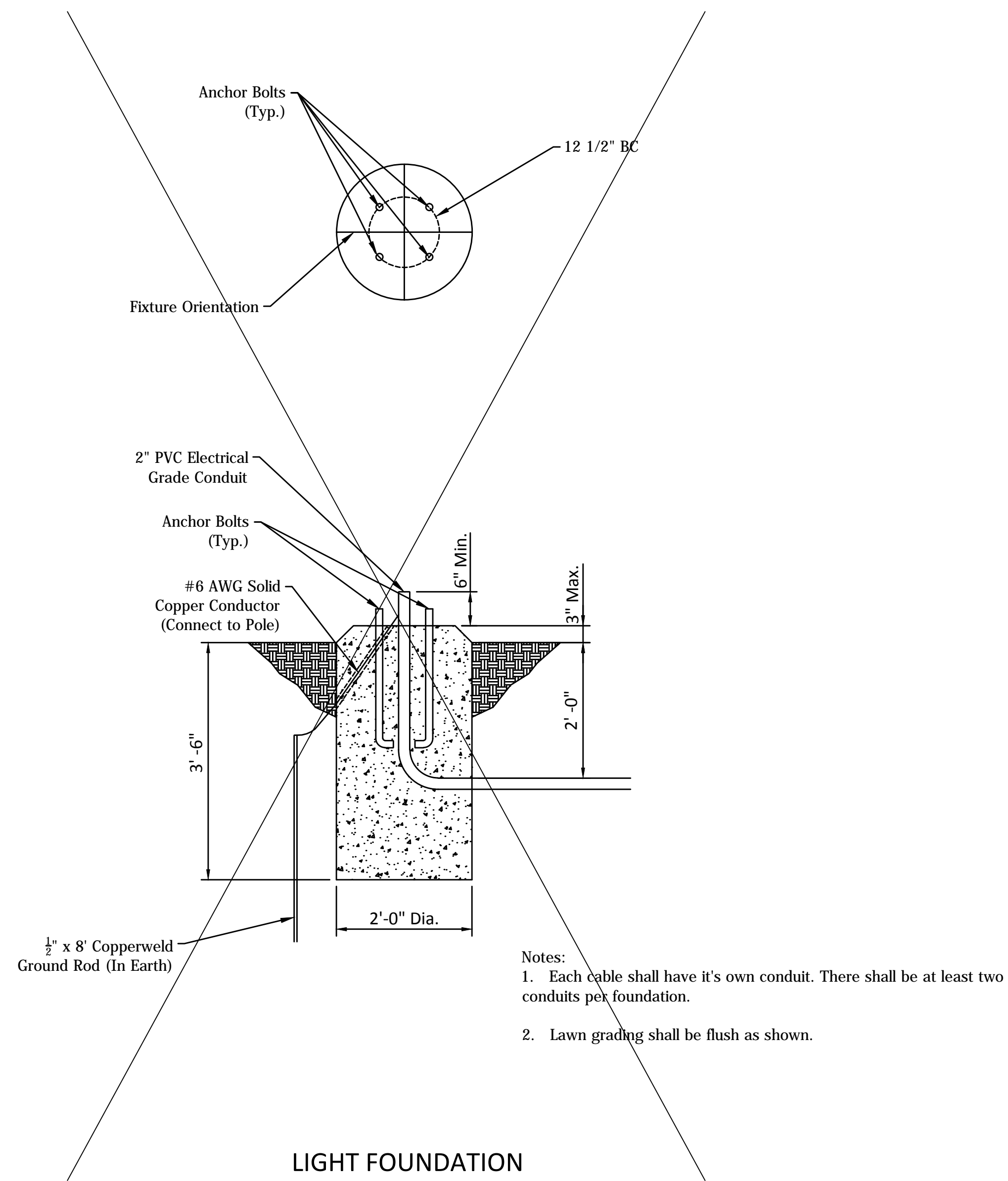
RECOMMENDED FOR APPROVAL: *Robert L. Lewke* 01-23-2019
DESIGN ENGINEER DATE

DESIGNED: LTM DRAWN: CDF
CHECKED: GAG CHECKED: LTM

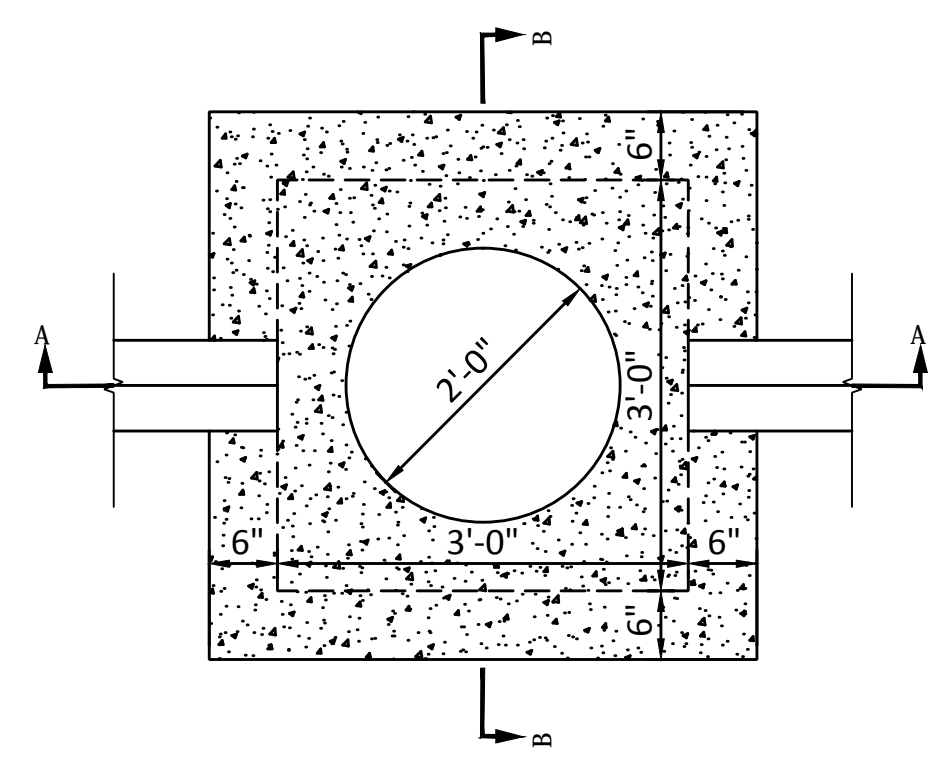
CITY OF BLOOMINGTON

UTILITY DETAILS

SCALE	BRIDGE FILE
N.T.S.	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	53 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

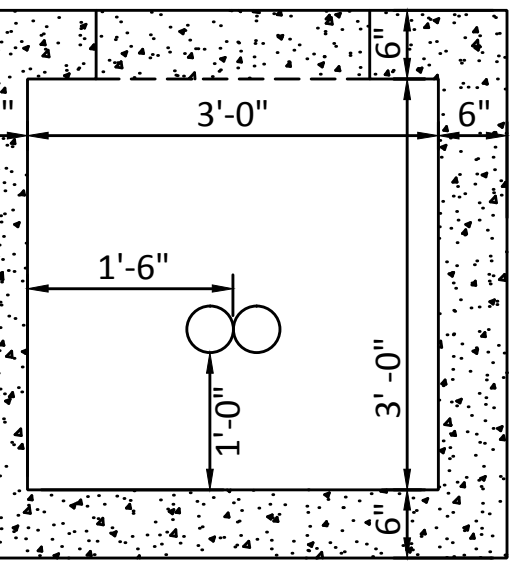
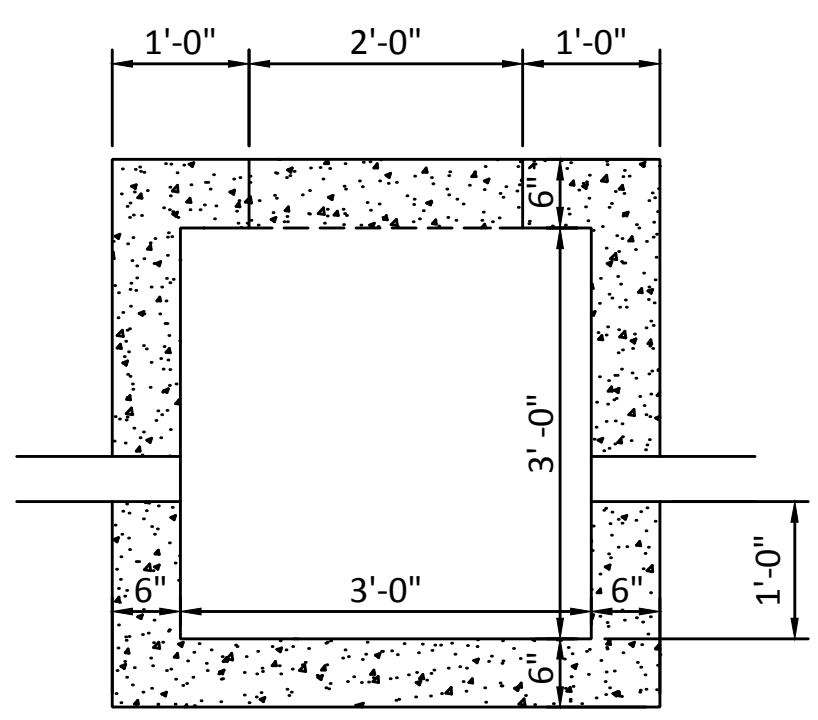


LIGHT FOUNDATION



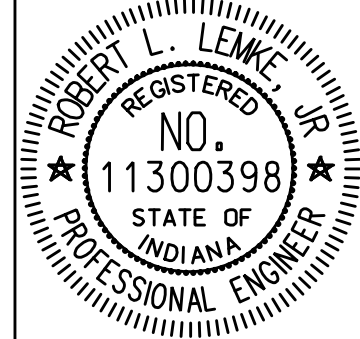
SECTION A-A

FIBER OPTIC MANHOLE



SECTION B-B

Duke Energy will be providing and installing direct buried light poles.



RECOMMENDED FOR APPROVAL	<i>Robert L. Lemke</i>	DESIGN ENGINEER	DATE
			01-23-2019
DESIGNED: BSF	DRAWN: BSF		
CHECKED: LAR	CHECKED: PRD		

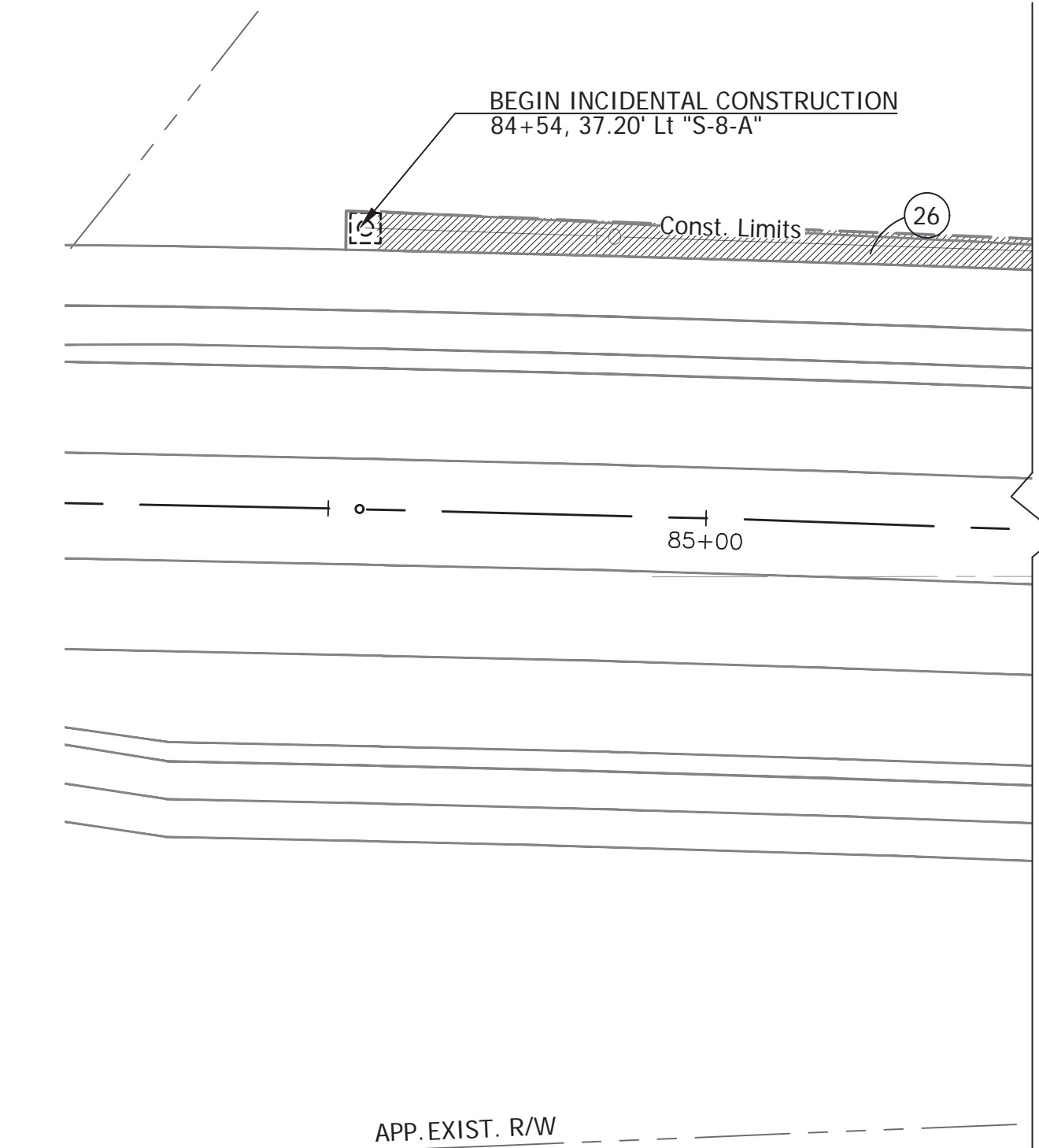
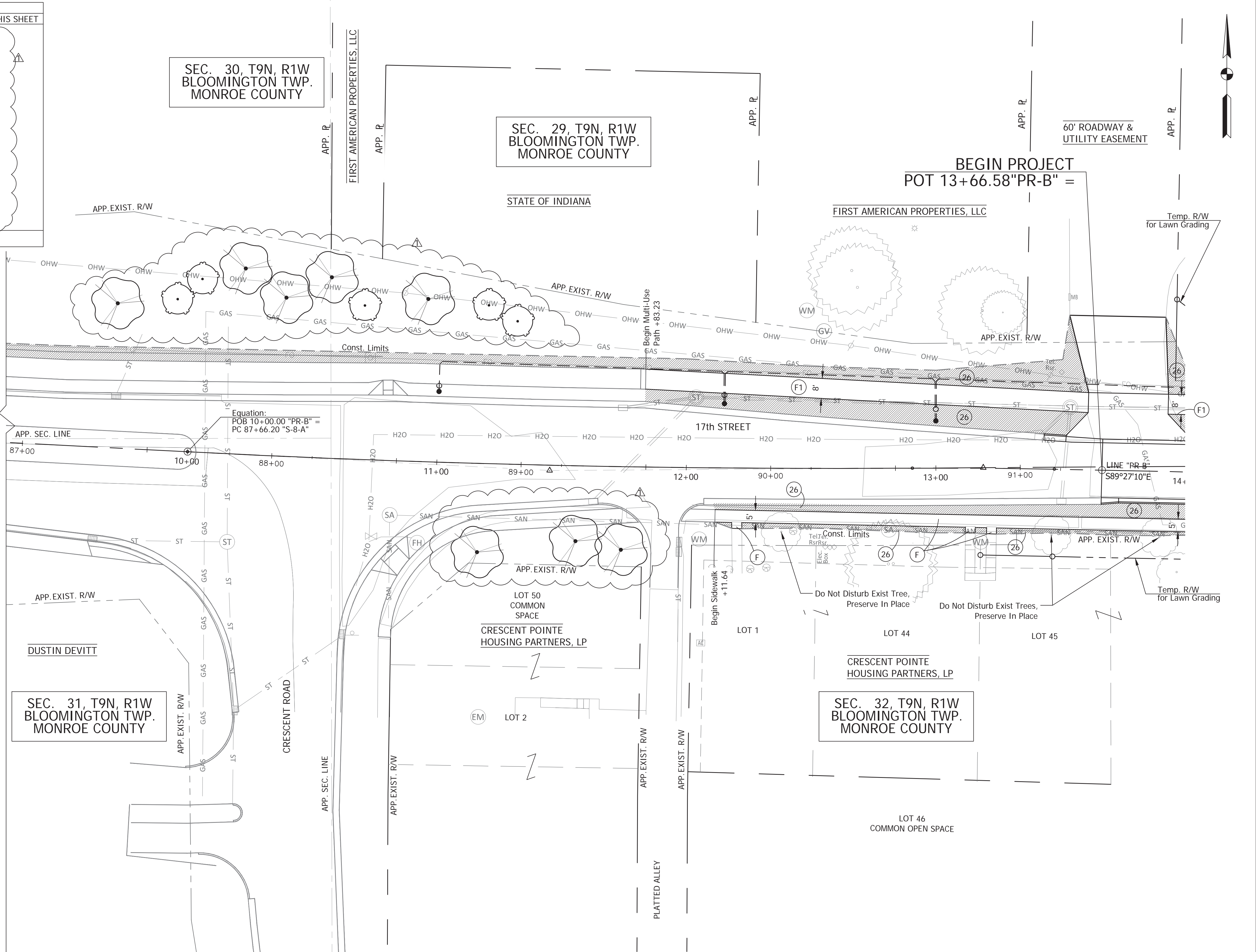
CITY OF BLOOMINGTON

MISCELLANEOUS UTILITY
STRUCTURE DETAILS

SCALE	BRIDGE FILE
	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	54 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY THIS SHEET
	ACER RUBRUM	RED MAPLE	2" B&B	0 EA
	CERCIS CANADENSIS	EASTERN REDBUD	1-1/4" B&B	0 EA
	MALUS 'RED BARRON'	RED BARRON CRABAPPLE	1-1/4" B&B	5 EA
	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	2" B&B	8 EA
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	1-1/4" B&B	0 EA
	PINUS STROBUS	EASTERN WHITE PINE	2" B&B	0 EA
	QUERCUS PALUSTRIS	PIN OAK	2" B&B	0 EA
	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	2" B&B	0 EA
	SODDING, NURSERY			684 SY

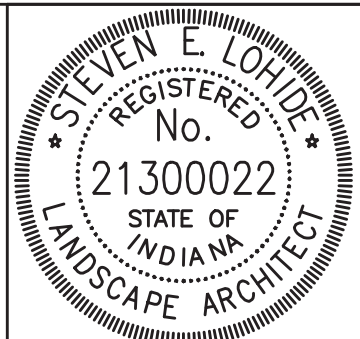
LEGEND SYMBOLS ARE NOT TO SCALE



- Concrete Sidewalk, See Roadway Plans
- HMA for Sidewalk, See Roadway Plans
- Sodding, Nursery

Notes:
 1. Sod All Disturbed Areas.
 2. For Tree Removals, See Roadway Tree Removal Plans

Rev. 01 01-23-2019



RECOMMENDED FOR APPROVAL		01-23-2019
DESIGNED: SEL	DRAWN: JP	DATE
CHECKED: SEL	CHECKED: SEL	

CITY OF BLOOMINGTON
 LANDSCAPE PLAN
 STA 10+00 TO STA 14+00

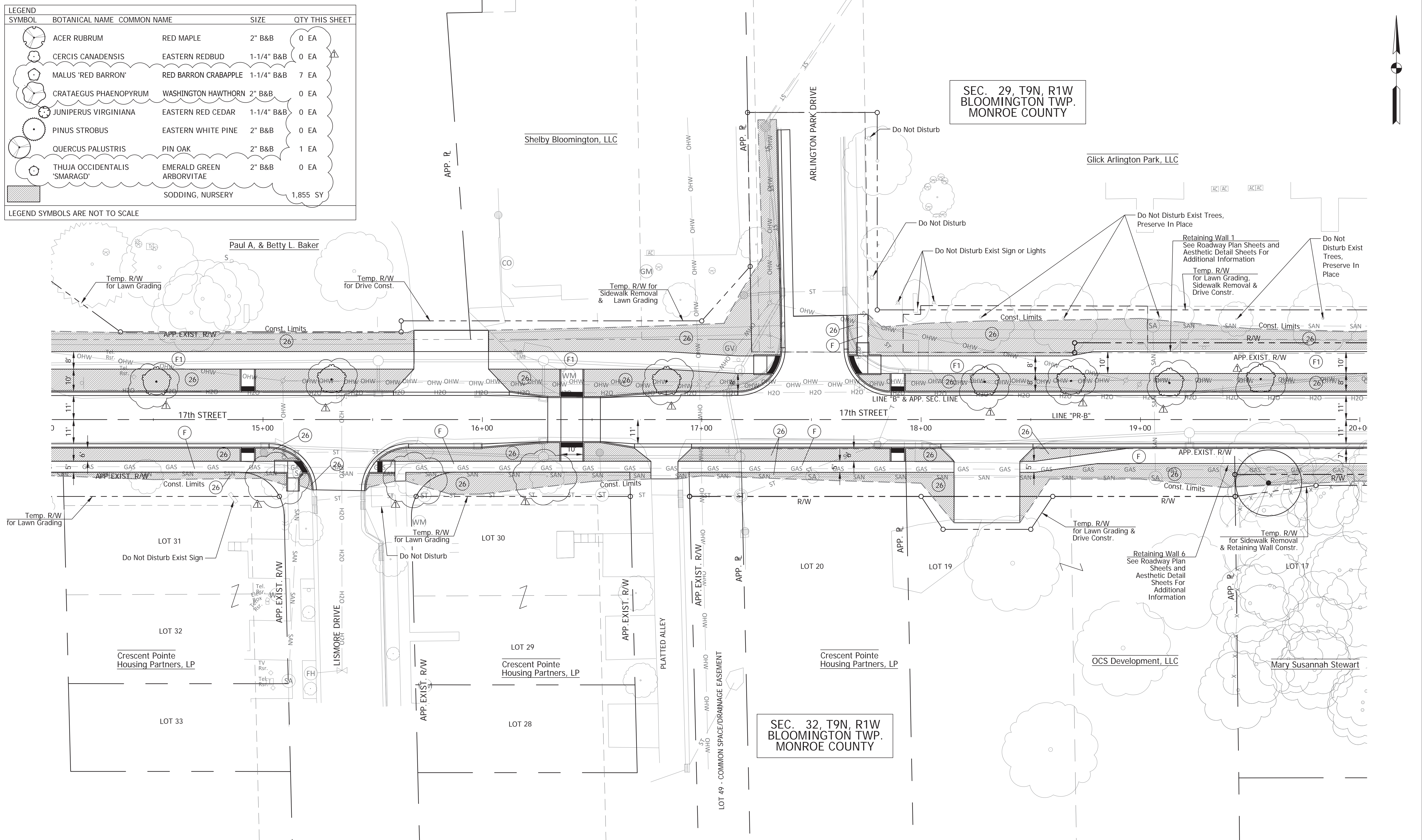
SCALE 1"=20'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 55 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

PLOTTED: Tuesday, January 22, 2019 2:26:56 PM

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY THIS SHEET
	ACER RUBRUM	RED MAPLE	2" B&B	0 EA
	CERCIS CANADENSIS	EASTERN REDBUD	1-1/4" B&B	0 EA
	MALUS 'RED BARRON'	RED BARRON CRABAPPLE	1-1/4" B&B	7 EA
	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	2" B&B	0 EA
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	1-1/4" B&B	0 EA
	PINUS STROBUS	EASTERN WHITE PINE	2" B&B	0 EA
	QUERCUS PALUSTRIS	PIN OAK	2" B&B	1 EA
	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	2" B&B	0 EA
	SODDING, NURSERY			1,855 SY

LEGEND SYMBOLS ARE NOT TO SCALE

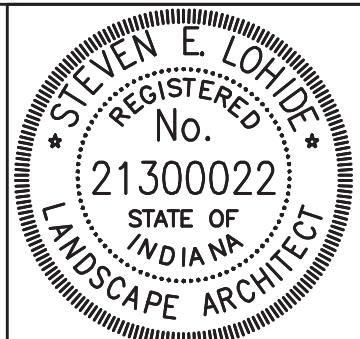
SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY



- (F) Concrete Sidewalk, See Roadway Plans
- (F1) HMA for Sidewalk: See Roadway Plans
- (26) Sodding, Nursery

Notes:
1. Sod All Disturbed Areas.
2. For Tree Removals, See Roadway Tree Removal Plans

Rev. 01 01-23-2019



RECOMMENDED FOR APPROVAL: *[Signature]*
DESIGN ENGINEER
DATE: 01-23-2019
DESIGNED: SEL
DRAWN: JP
CHECKED: SEL
CHECKED: SEL

CITY OF BLOOMINGTON
LANDSCAPE PLAN
STA 14+00 TO STA 20+00

SCALE 1"=20'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 56 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

PLOTTED: Tuesday, January 22, 2019 2:25:10 PM

FILE: 56_IS_PLAN_02.DWG

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY THIS SHEET
	ACER RUBRUM	RED MAPLE	2" B&B	1 EA
	CERCIS CANADENSIS	EASTERN REDBUD	1-1/4" B&B	4 EA
	MALUS 'RED BARRON'	RED BARRON CRABAPPLE	1-1/4" B&B	13 EA
	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	2" B&B	0 EA
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	1-1/4" B&B	2 EA
	PINUS STROBUS	EASTERN WHITE PINE	2" B&B	3 EA
	QUERCUS PALUSTRIS	PIN OAK	2" B&B	1 EA
	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	2" B&B	0 EA
	SODDING, NURSERY			2,000 SY

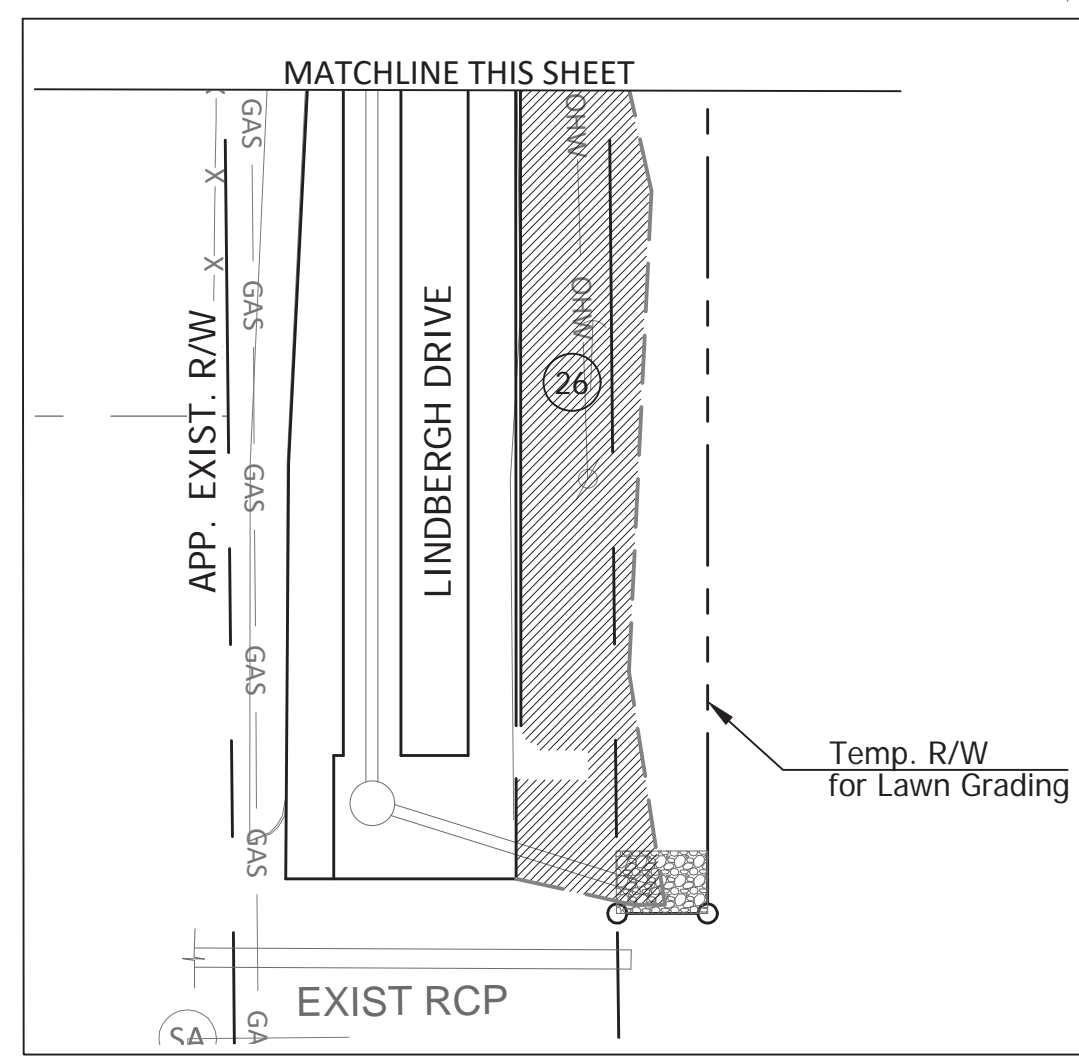
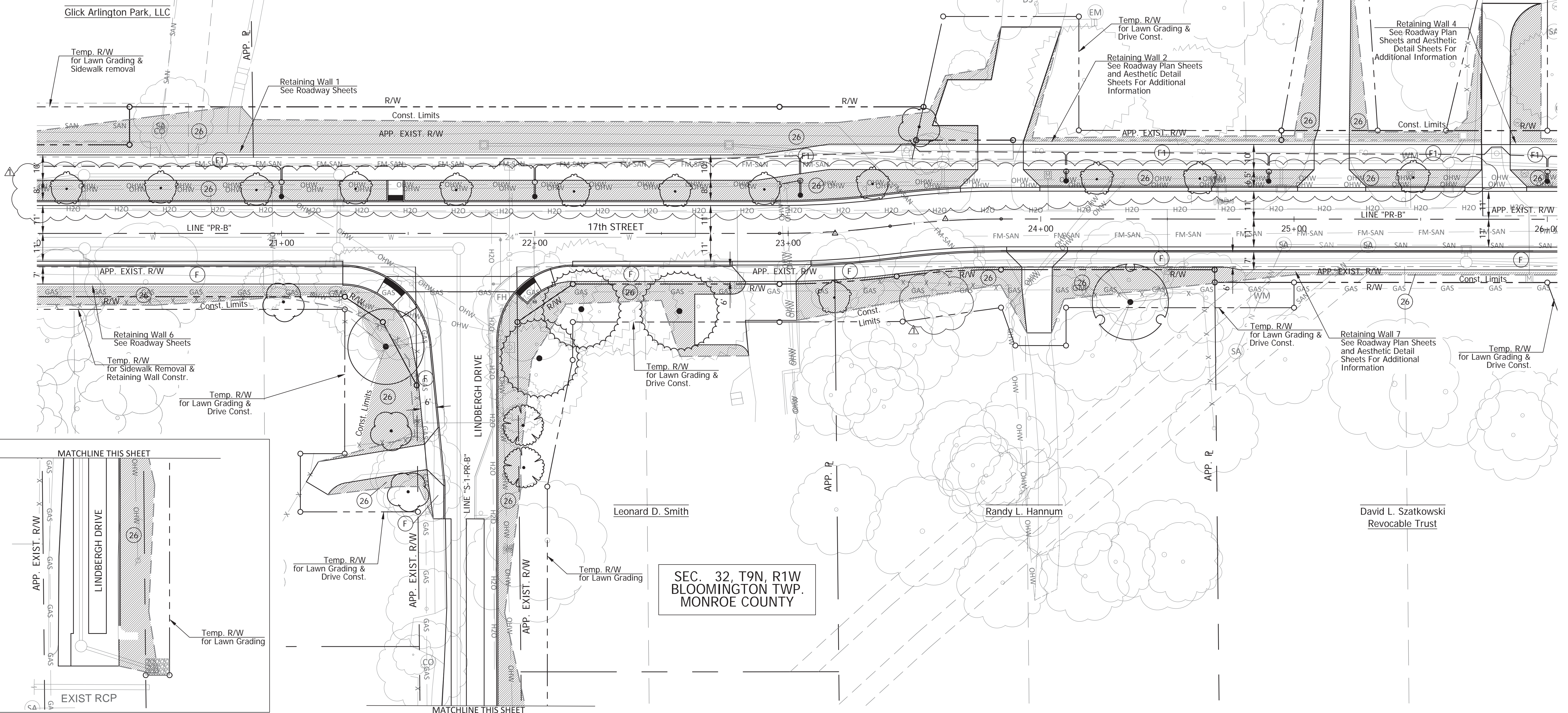
LEGEND SYMBOLS ARE NOT TO SCALE

SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

Rogers Group, Inc.

Carrie G. Winkel & Marion R. Winkel

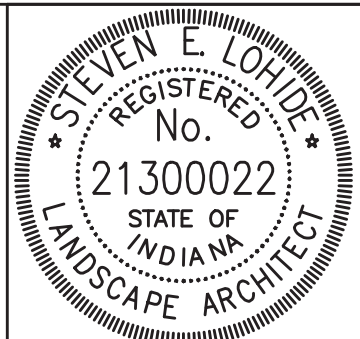
Kevin J. & Rosemary J. Treacy



- (F) Concrete Sidewalk, See Roadway Plans
- (F1) HMA for Sidewalk: See Roadway Plans
- (26) Sodding, Nursery

Notes:
1. Sod All Disturbed Areas.
2. For Tree Removals, See Roadway Tree Removal Plans

Rev. 01 01-23-2019



RECOMMENDED FOR APPROVAL: *[Signature]*
DESIGN ENGINEER
DATE: 01-23-2019
DESIGNED: SEL
DRAWN: JP
CHECKED: SEL
CHECKED: SEL

CITY OF BLOOMINGTON
LANDSCAPE PLAN
STA 20+00 TO STA 26+00

SCALE 1"=20'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 57 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

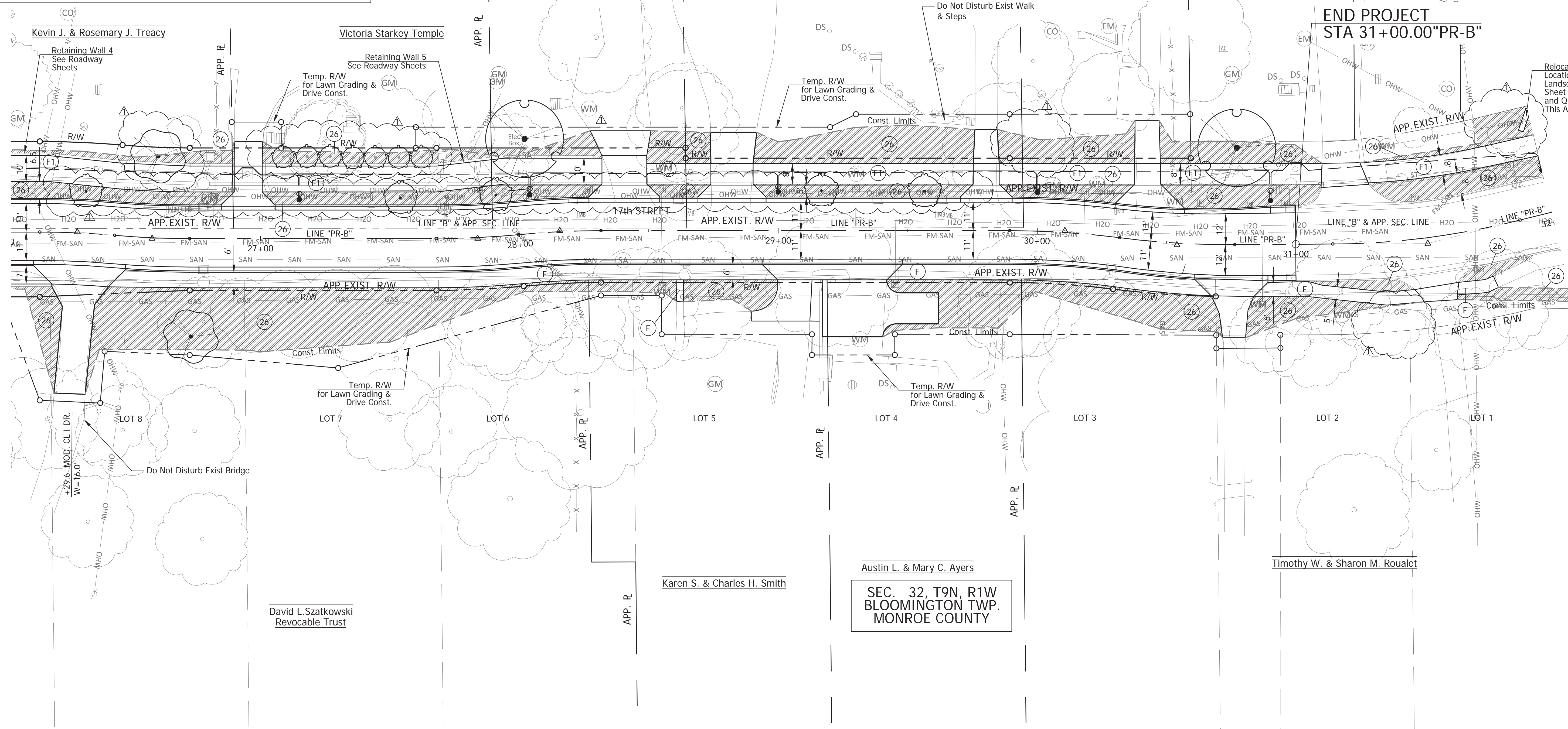
PLOTTED: Tuesday, January 22, 2019 2:20:39 PM

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY THIS SHEET
	ACER RUBRUM	RED MAPLE	2" B&B	2 EA
	CERCIS CANADENSIS	EASTERN REDBUD	1-1/4" B&B	0 EA
	MALUS 'RED BARRON'	RED BARRON CRABAPPLE	1-1/4" B&B	5 EA
	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	2" B&B	2 EA
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	1-1/4" B&B	0 EA
	PINUS STROBUS	EASTERN WHITE PINE	2" B&B	0 EA
	QUERCUS PALUSTRIS	PIN OAK	2" B&B	0 EA
	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	2" B&B	7 EA
		SODDING, NURSERY		1,477 SY

LEGEND SYMBOLS ARE NOT TO SCALE

SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

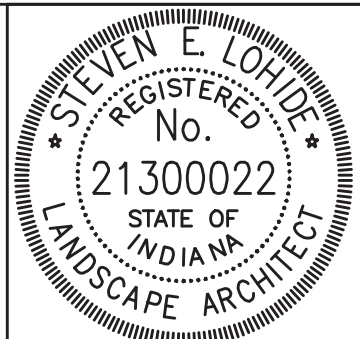


PLOTTED: Tuesday, January 22, 2019 2:21:06 PM

- (F) Concrete Sidewalk, See Roadway Plans
- (F1) HMA for Sidewalk: See Roadway Plans
- (26) Sodding, Nursery

Notes:
1. Sod All Disturbed Areas.
2. For Tree Removals, See Roadway Tree Removal Plans

Rev. 01 01-23-2019



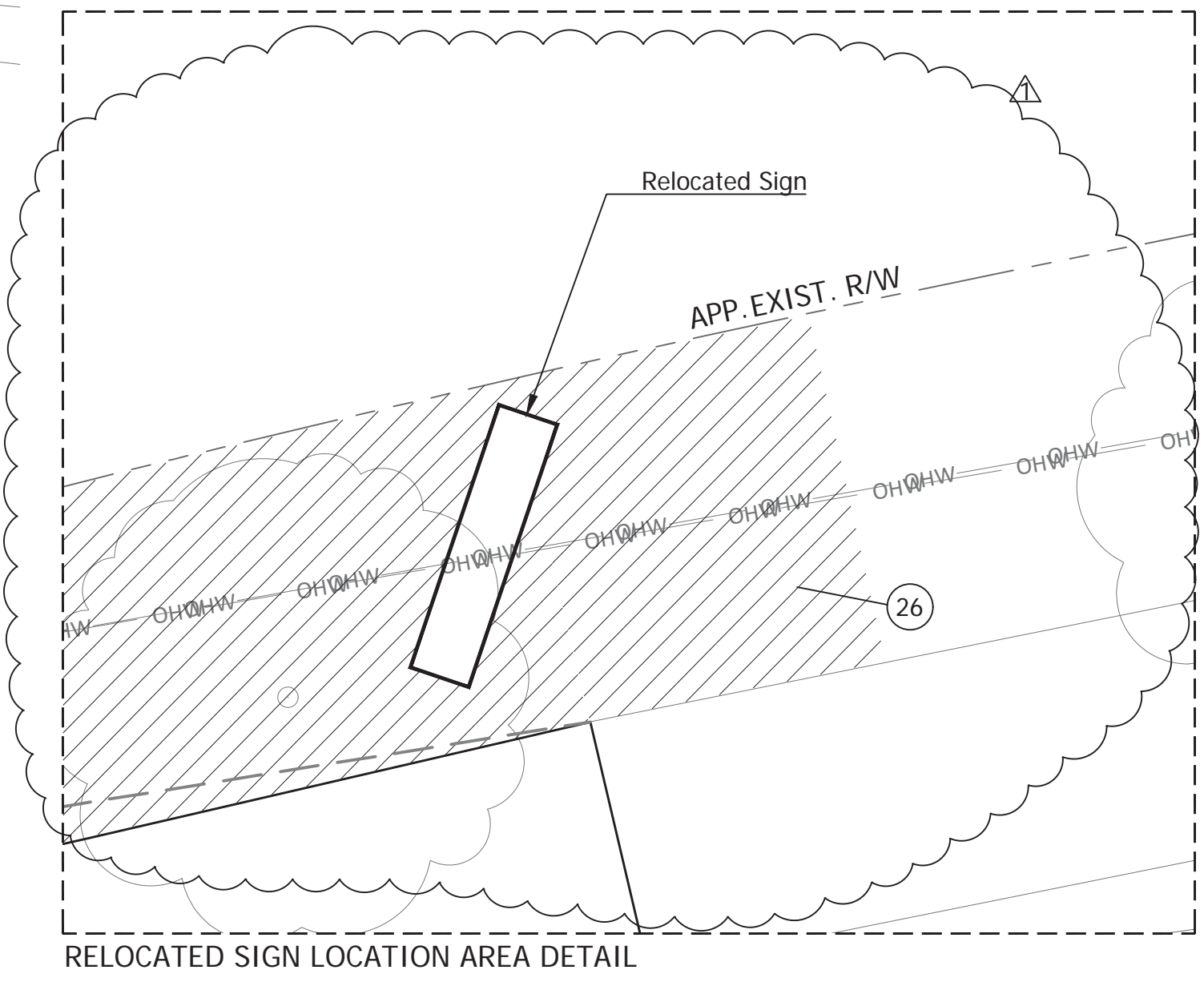
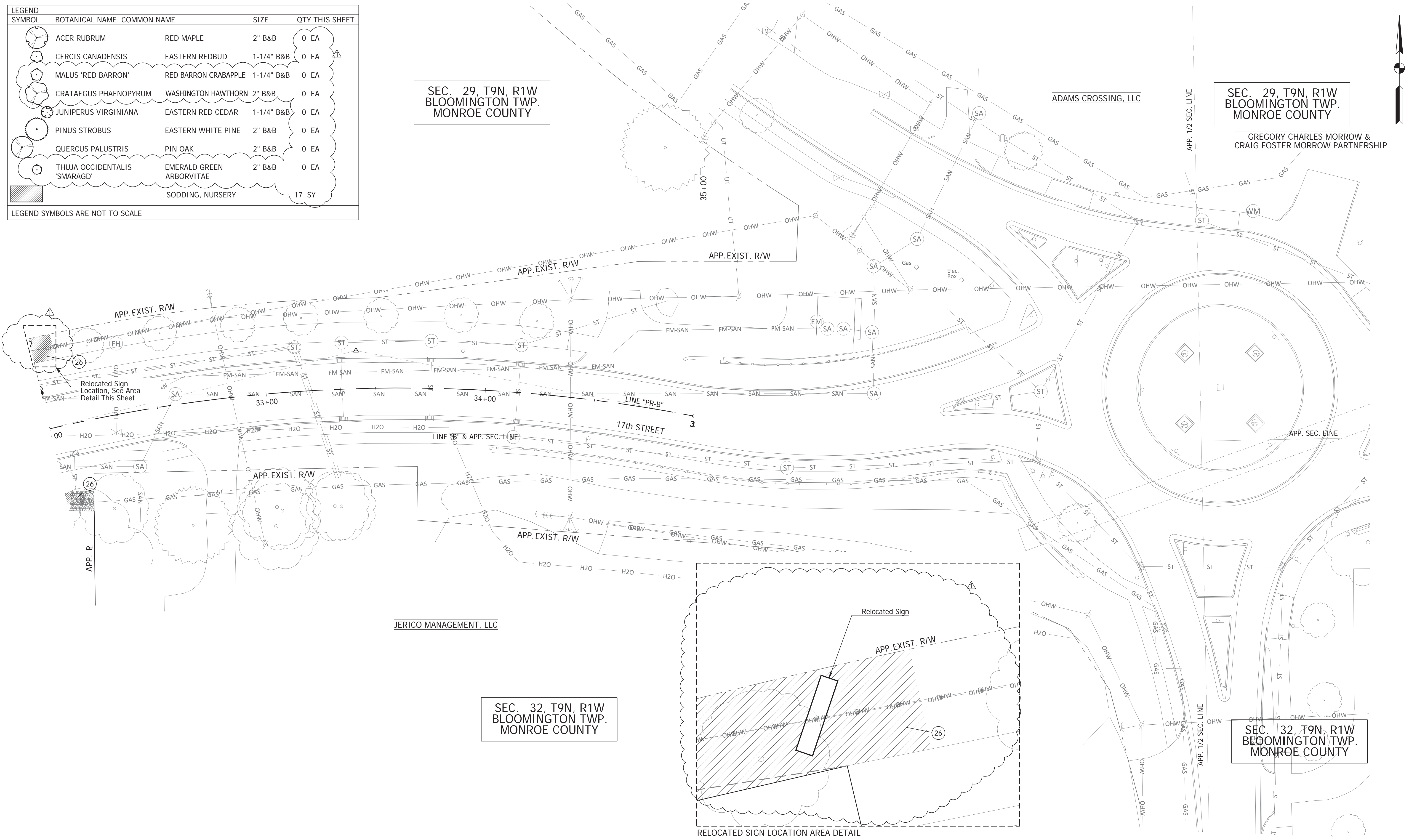
RECOMMENDED FOR APPROVAL		01-23-2019
DESIGNED: SEL	DRAWN: JP	DATE
CHECKED: SEL	CHECKED: SEL	

CITY OF BLOOMINGTON
LANDSCAPE PLAN
STA 26+00 TO STA 32+00

SCALE 1"=20'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 58 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY THIS SHEET
	ACER RUBRUM	RED MAPLE	2" B&B	0 EA
	CERCIS CANADENSIS	EASTERN REDBUD	1-1/4" B&B	0 EA
	MALUS 'RED BARRON'	RED BARRON CRABAPPLE	1-1/4" B&B	0 EA
	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	2" B&B	0 EA
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	1-1/4" B&B	0 EA
	PINUS STROBUS	EASTERN WHITE PINE	2" B&B	0 EA
	QUERCUS PALUSTRIS	PIN OAK	2" B&B	0 EA
	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	2" B&B	0 EA
		SODDING, NURSERY		17 SY

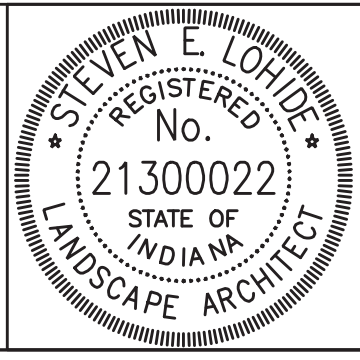
LEGEND SYMBOLS ARE NOT TO SCALE



- 26 Sodding, Nursery
- 27 Shredded Bark Mulch Under Shrub Plantings

Notes:
 1. Sod All Disturbed Areas.
 2. For Tree Removals, See Roadway Tree Removal Plans

Rev. 01 01-23-2019



RECOMMENDED FOR APPROVAL		01-23-2019
DESIGNED: SEL	DRAWN: JP	DATE
CHECKED: SEL	CHECKED: SEL	

CITY OF BLOOMINGTON
 LANDSCAPE DETAILS
 STA 32+00 TO STA 35+00

SCALE 1"=20'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 59 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

PLOTTED: Tuesday, January 22, 2019 2:21:46 PM



SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

CURVE DATA
PI 23+18.53 "PR-B"
 $\Delta = 7^{\circ}29'12''$ Lt.
T = 21.92'
L = 43.77'
R = 335.00'
E = 0.72'
S.E. = N.C.

Rogers Group, Inc.

Carrie G. Winkel & Marion R. Winkel

Kevin J. & Rosemary J. Treacy

EQUATION:
POT STA. 21+74.93 "PR-B" =
POT STA. 100+00.00 "S-1-PR-B"

PI 23+62.39 "PR-B"

PRC 23+40.39 "PR-B"

PI 23+18.53 "PR-B"

PC 22+96.61 "PR-B"

PT 23+84.34 "PR-B"

LINE "PR-B"
S 89°27'10" E

LINE "B" & APP. SEC. LINE
S 89°28'28" E

17th STREET

LINE "PR-B"
S 89°25'19" E

APP. EXIST. R/W

APP. EXIST. R/W

APP. EXIST. R/W

Tree 10" Remove
3 Each

Tree 6" Remove
Tree 10" Remove
Tree 18" Remove
Tree 6" Remove
Tree 10" Remove

Tree 18" Remove
Tree 30" Remove

Tree 30" Remove
Tree 18" Remove

Tree 18" Remove
Tree 6" Remove

Tree 18" Remove

Temp. R/W
for Lawn Grading &
Drive Const.

CURVE DATA
PI 23+62.39 "PR-B"
 $\Delta = 7^{\circ}31'03''$ Rt.
T = 22.00'
L = 43.95'
R = 335.00'
E = 0.72'
S.E. = N.C.

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

Leonard D. Smith

Randy L. Hannum

David L. Szatkowski
Revocable Trust

Mary Susannah Stewart

PLOTTED: Monday, January 21, 2019 1:42:28 PM

Rev. 01 01-23-2019



RECOMMENDED FOR APPROVAL
Brad S Farris
DESIGN ENGINEER
12/28/18
DATE

DESIGNED: BSF
DRAWN: BSF
CHECKED: BSF
CHECKED: LAR

CITY OF BLOOMINGTON

TREE REMOVAL PLAN
STA 20+00 TO STA 26+00

SCALE 1"=20'	BRIDGE FILE N/A
	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 68 of 100
CONTRACT N/A	PROJECT 17TH STREET RECONSTRUCTION

FILE: RD_TREEREMOVAL_03.DWG



SEC. 29, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

SEC. 32, T9N, R1W
BLOOMINGTON TWP.
MONROE COUNTY

CURVE DATA

PI 26+58.22 "PR-B"
Δ=4°57'32" Lt.
T= 14.51'
L= 28.99'
R=335.00'
E= 0.31'
S.E.= N.C.

CURVE DATA

PI 27+83.86 "PR-B"
Δ=5°26'16" Lt.
T= 15.91'
L= 31.79'
R=335.00'
E= 0.38'
S.E.= N.C.

CURVE DATA

PI 30+54.20 "PR-B"
Δ=7°37'34" Lt.
T= 22.33'
L= 44.59'
R=335.00'
E= 0.74'
S.E.= N.C.

CURVE DATA

PI 31+50.96 "PR-B"
Δ=13°57'13" Lt.
T= 36.71'
L= 73.06'
R=300.00'
E= 2.24'
S.E.= N.C.

CURVE DATA

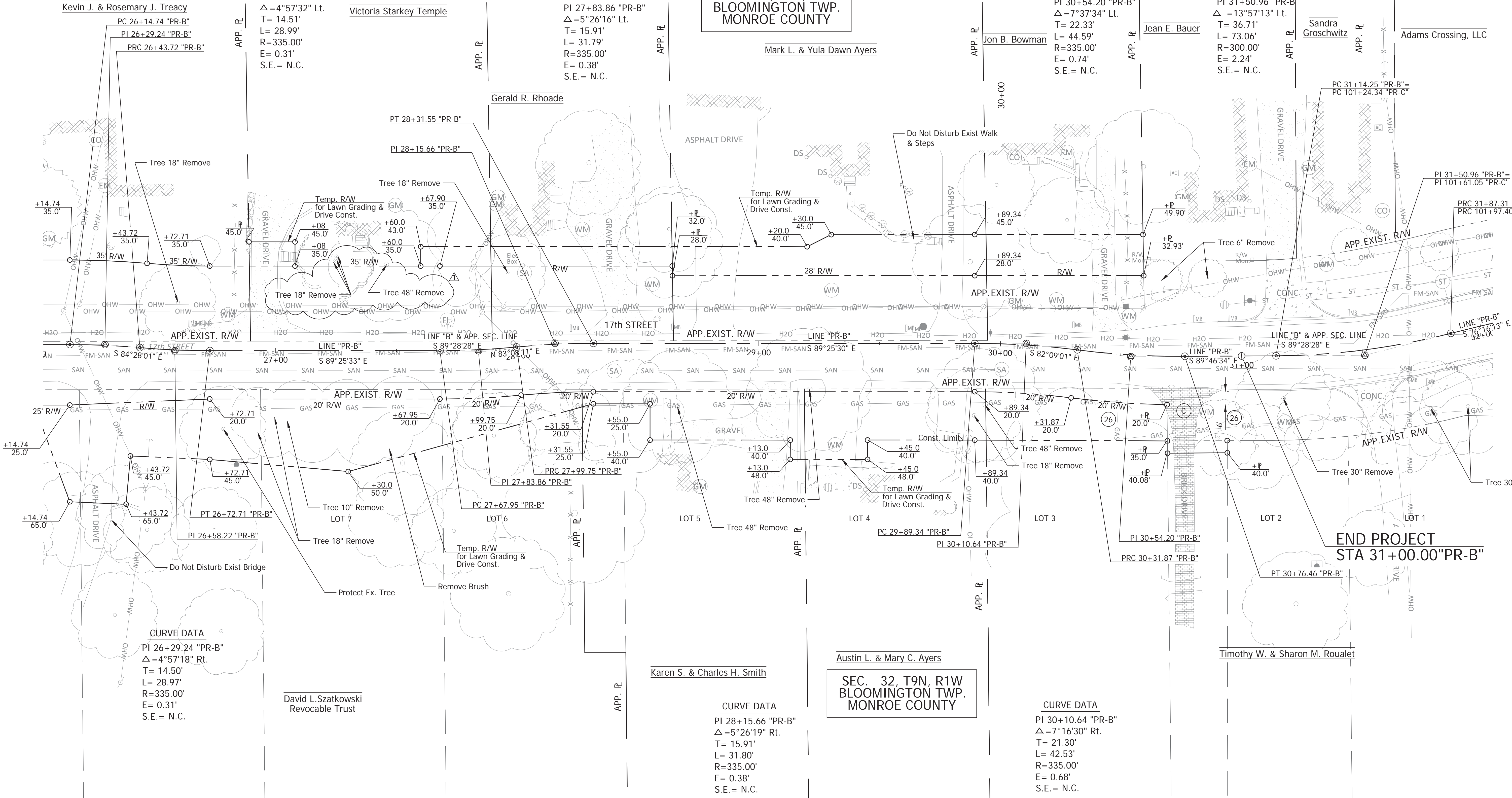
PI 26+29.24 "PR-B"
Δ=4°57'18" Rt.
T= 14.50'
L= 28.97'
R=335.00'
E= 0.31'
S.E.= N.C.

CURVE DATA

PI 28+15.66 "PR-B"
Δ=5°26'19" Rt.
T= 15.91'
L= 31.80'
R=335.00'
E= 0.38'
S.E.= N.C.

CURVE DATA

PI 30+10.64 "PR-B"
Δ=7°16'30" Rt.
T= 21.30'
L= 42.53'
R=335.00'
E= 0.68'
S.E.= N.C.



Rev. 01 01-23-2019



RECOMMENDED FOR APPROVAL: *Brad S. Fair*
DESIGN ENGINEER
DATE: 12/28/18
DESIGNED: BSF
DRAWN: BSF
CHECKED: BSF
CHECKED: LAR

CITY OF BLOOMINGTON
TREE REMOVAL PLAN
STA 26+00 TO STA 32+00

SCALE	BRIDGE FILE
1"=20'	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	69 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

PLOTTED: Monday, January 21, 2019 1:44:53 PM

FILE: RD_TREEREMOVAL_04.DWG

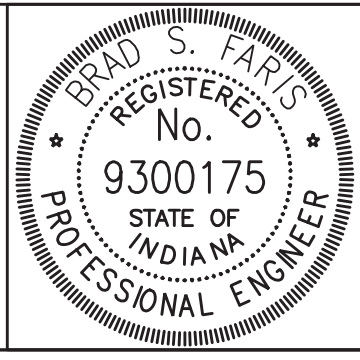
PAVEMENT MARKINGS SUMMARY OF QUANTITIES

LOCATION	THERMOPLASTIC		LINE EPOXY				LINE EPOXY				TRANSVERSE MARKINGS THERMOPLASTIC STOP LINE		TRANSVERSE MARKINGS CROSSHATCH LINE		TRANSVERSE MARKINGS THERMOPLASTIC CROSSWALK LINE		PAVEMENT MESSAGE THERMOPLASTIC LANE INDICATION ARROW	PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC, CHEVRON	SNOWPLOWABLE RAISED PAVEMENT MARKERS		
	SOLID WHITE 4 in	SOLID YELLOW 4 in	SOLID WHITE 4 in	SOLID YELLOW 4 in	SOLID WHITE 8 in	SOLID YELLOW 8 in	BROKEN WHITE 4 in	BROKEN YELLOW 4 in	BROKEN WHITE 8 in	BROKEN YELLOW 8 in	SOLID WHITE 12 in	SOLID WHITE 24 in	SOLID YELLOW 24 in	SOLID YELLOW 24 in	SOLID WHITE 6 in	SOLID WHITE 24 in					
	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft					
Line "PR-B"																					
13+66 to 15+10		288																		2	
Lismore Drive														11		54					
15+60 to 16+30		140																		1	
16+40.8 - Raised Crosswalk																					
16+52 to 17+30		156																			
Arlington Park Drive														14							
17+80 to 21+42		724																		5	
Lindbergh Drive		485												15		101					
22+00 to 31+00		1,800																		17	
PROJECT TOTAL		3,593												40		155			106	2	26

SHEET SIGN & POST SUMMARY

PLAN SHEET NO. / LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE (IN. x IN.)	GROUND - MOUNTED SIGN AREA (ft²)			MOUNTED ON PANEL SIGN, AREA (ft²)	POST SQUARE														
				0.080"	0.100"	0.125"		2 1/2" X 2 1/2" - 12 GA. (TYPE 3) UNREINFORCED ANCHOR			2" X 2" - 12 GA. (TYPE 2) REINFORCED ANCHOR			2 1/4" X 2 1/4" - 12 GA. (TYPE 1) REINFORCED ANCHOR								
								POST LENGTH (FT.)			POST LENGTH (FT.)			POST LENGTH (FT.)								
				1	2	TOTAL		1	2	TOTAL	1	TOTAL										
Line "PR-B"																						
	13+73.5 Rt.	R2-1 (30)	24x30	5.00																	10.0	10.0
	15+00.0 Rt.	W17-1	36x36		9.00																14.0	14.0
		W13-1P	24x24	4.00																		
	15+51.5 Rt.	R1-1	30x30	6.25																	12.0	12.0
		D3-1 (17TH ST.)	42x9		2.63																	
		D3-1 (Lismore DR.)	42x9		2.63																	
		D3-1 (17TH ST.)	42x9		2.63			(Mounted Back to Back)														
		D3-1 (Lismore DR.)	42x9		2.63			(Mounted Back to Back)														
	16+32.0 Rt.	W11-2	30x30	6.25																	11.0	11.0
		W16-7PL	24x12	2.00																		
		W11-2	30x30	6.25																		
		W16-7PL	24x12	2.00																		
	16+49.0 lt.	W11-2	30x30	6.25																	11.0	11.0
		W16-7PL	24x12	2.00																		
		W11-2	30x30	6.25																		
		W16-7PL	24x12	2.00																		
	17+33.2 Lt.	R1-1	30x30	6.25																	12.0	12.0
		D3-1 (17TH ST.)	42x9		2.63																	
		D3-1 (Arlington Park DR.)	60x9		3.75																	
		D3-1 (17TH ST.)	42x9		2.63																	
		D3-1 (Arlington Park DR.)	60x9		3.75																	
	17+85.0 Lt.	W17-1	36x36		9.00																14.0	14.0
		W13-1P	24x24	4.00																		
	21+96.5 Rt.	R1-1	30x30	6.25																	12.0	12.0
		D3-1 (17TH ST.)	42x9		2.63																	
		D3-1 (Lindbergh DR.)	48x9		3.00																	
		D3-1 (17TH ST.)	42x9		2.63																	
		D3-1 (Lindbergh DR.)	48x9		3.00																	
	33+90.0 Lt.	R2-1 (30)	24x30	5.00																		
								(Mount on Exist. Post)														
				69.75	52.54																96.0	

Rev. 01 01-23-2019



RECOMMENDED FOR APPROVAL
 DESIGN ENGINEER: *Brad S Farris*
 DATE: 12/28/18
 DESIGNED: BSF
 DRAWN: BSF
 CHECKED: BSF
 CHECKED: LAR

CITY OF BLOOMINGTON
 PAVEMENT MARKING & SIGNING TABLES

SCALE	BRIDGE FILE
N/A	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	75 of 100
CONTRACT	PROJECT
N/A	17TH STREET RECONSTRUCTION

STRUCTURE DATA

* If contractor elects to use metal pipe, thicknesses shown below are to be used.

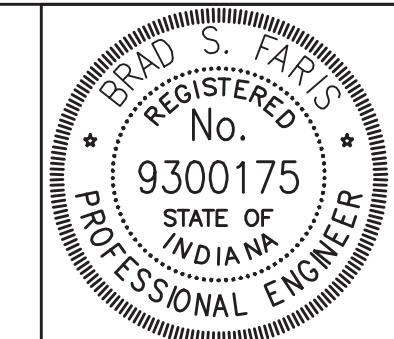
Table with columns: STRUCTURE NUMBER, LOCATION (STATION, LEFT, CROSS, RIGHT), SIZE (IN.), PIPE TYPE, MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE, LENGTH (LFT, FT), FLOW LINE (COVER, UP STREAM, DOWN STREAM), SERVICE LIFE (YR), SITE DESIGNATION, pH, BACKFILL METHOD, STRUCTURE BACKFILL (TYPE, CYS, TONS), REVISION (RIPRAP, CONCRETE, CLASS A, FOR STR.), VIDEO INSPECTION (LFT, EA), and REMARKS.

STRUCTURE DATA

* If contractor elects to use metal pipe, thicknesses shown below are to be used.

Table with columns: STRUCTURE NUMBER, LOCATION (STATION, LEFT, CROSS, RIGHT), SIZE (IN.), PIPE TYPE, MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE, LENGTH (LFT, FT), FLOW LINE (COVER, UP STREAM, DOWN STREAM), SERVICE LIFE (YR), SITE DESIGNATION, pH, BACKFILL METHOD, STRUCTURE BACKFILL (TYPE, CYS, TONS), REVISION (RIPRAP, CONCRETE, CLASS A, FOR STR.), VIDEO INSPECTION (LFT, EA), and REMARKS.

Rev. 01 01-23-2019



Approval form with fields for: RECOMMENDED FOR APPROVAL (Signature: Brad S Farris, Date: 12/28/18), DESIGN ENGINEER, DESIGNED: TO, DRAWN: TO, CHECKED: BSF, CHECKED: PRD.

CITY OF BLOOMINGTON

STRUCTURE DATA TABLE

Summary table with columns: SCALE (N/A), BRIDGE FILE (N/A), DESIGNATION (N/A), SURVEY BOOK (N/A), SHEETS (77 of 100), CONTRACT (N/A), PROJECT (17TH STREET RECONSTRUCTION).