



CITY OF BLOOMINGTON

KERRY THOMSON
MAYOR

ANDREW CIBOR
ENGINEERING DEPARTMENT DIRECTOR

NEIL KOPPER
SENIOR PROJECT ENGINEER

CITY OF BLOOMINGTON
INDIANA

JEFFERSON STREET
SIDEWALK IMPROVEMENT
PROJECT

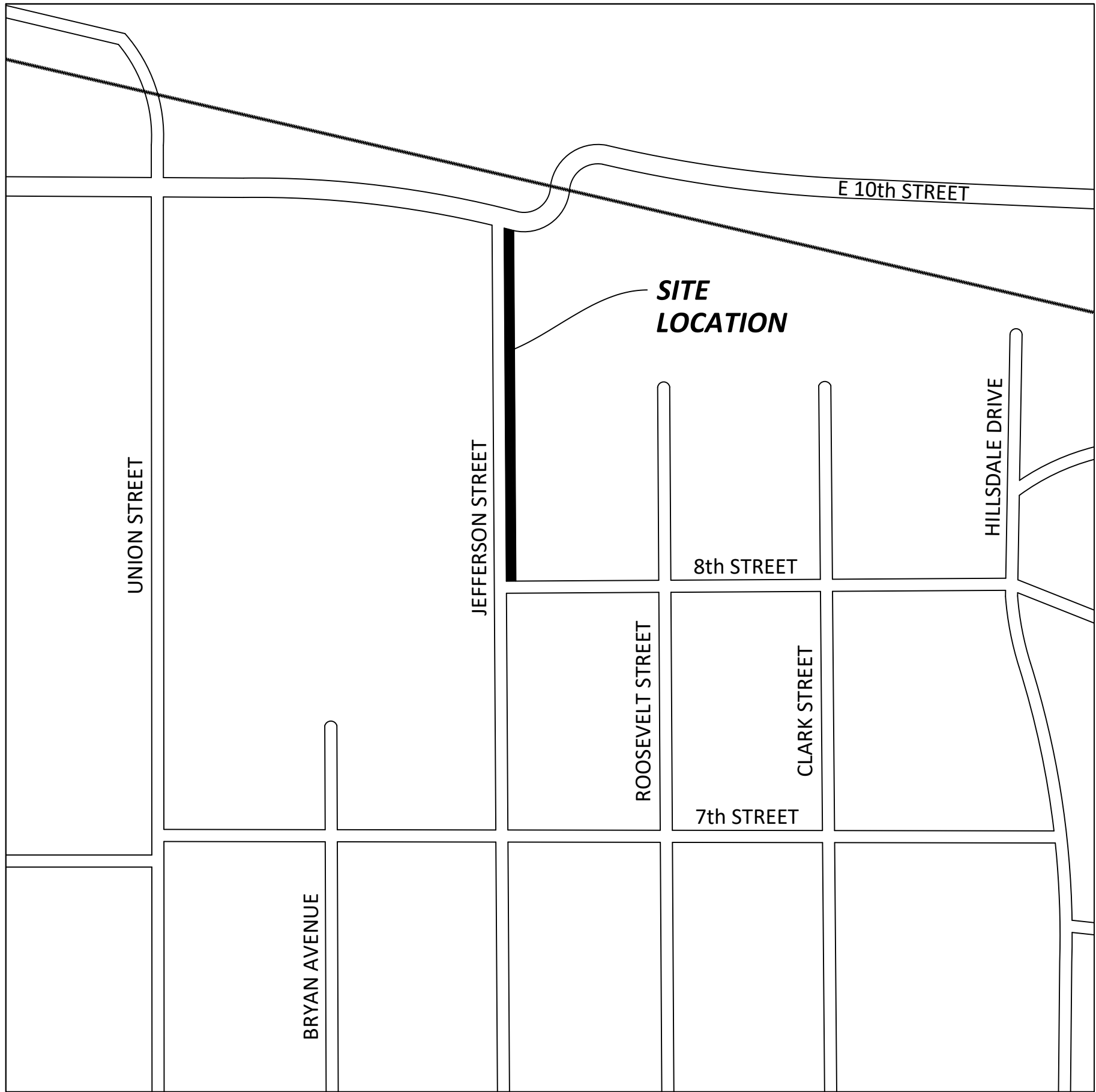
BRCJ PROJECT NO. 11824

PROJECT DESCRIPTION

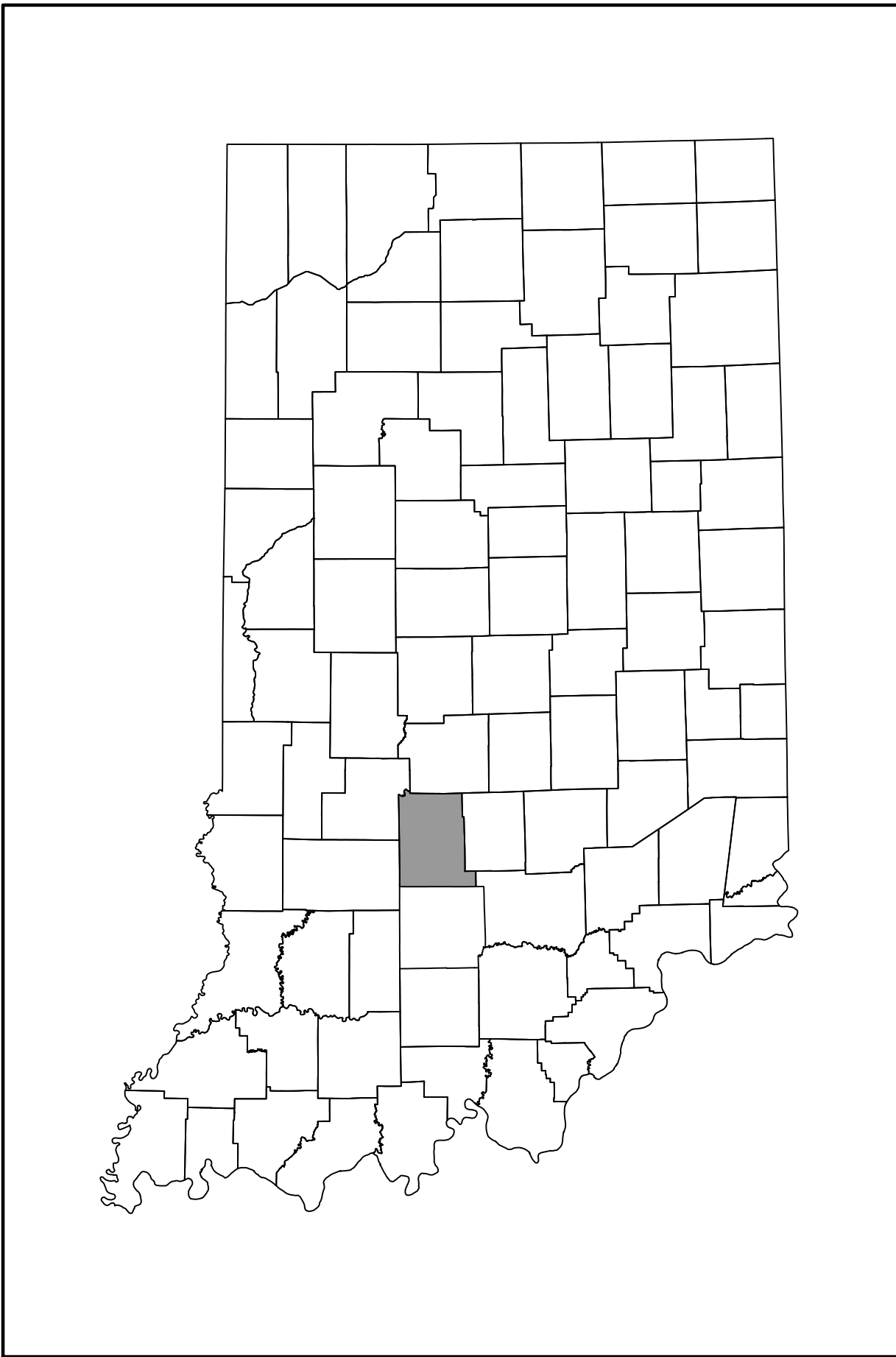
SIDEWALK AND IMPROVEMENTS ALONG THE EAST SIDE OF JEFFERSON STREET FROM 8TH STREET TO 10TH STREET, COMMENCING AT THE INTERSECTION APPROXIMATELY 0.28 MILES WEST ALONG EAST TENTH STREET FROM STATE ROAD 46 AND CONTINUING SOUTH APPROXIMATELY 0.12 MILES ALONG NORTH JEFFERSON STREET TO ITS INTERSECTION WITH EAST EIGHTH STREET, WHICH IS PART OF THE SOUTHEAST QUARTER OF SECTION 34 TOWNSHIP 9 NORTH RANGE 1 WEST.

PROJECT LENGTHS

SIDEWALK LENGTH = 654 LFT



1 PROJECT LOCATION MAP
N.T.S.



2 COUNTY LOCATION MAP
NTS

SPECIFICATIONS

PROJECT MANUAL

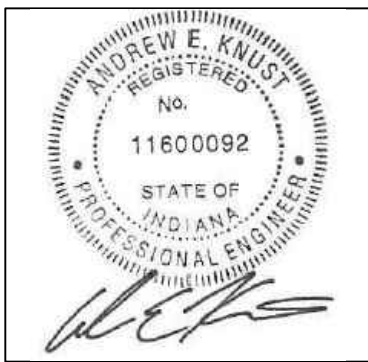
CITY OF BLOOMINGTON CONSTRUCTION
SPECIFICATIONS

INDIANA DEPARTMENT OF TRANSPORATION
STANDARD SPECIFICATIONS 2026 AND
SUPPLEMENTS THERETO



SHEET INDEX

- C100 TITLE SHEET
- C101 EXISTING CONDITIONS
- C102 RIGHT-OF-WAY PLAN
- C201 SELECTIVE SITE DEMOLITION PLAN
- C301 SIDEWALK IMPROVEMENT PLAN
- C302 SIDEWALK LAYOUT PLAN
- C401 SITE GRADING PLAN
- C402 CROSS SECTIONS
- C501 SITE UTILITY PLAN AND DRAINAGE PROFILES
- C601 SITE DETAILS
- C602 SITE DETAILS



BRCJ
LAND SURVEYING • CIVIL ENGINEERING • GIS

RECOMMENDED FOR APPROVAL

ANDREW E. KNUST, P.E. 10-31-2025

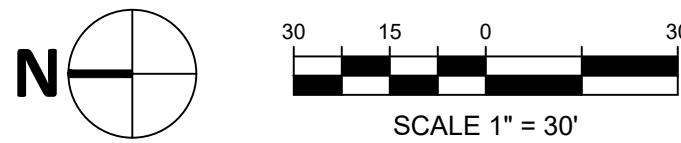
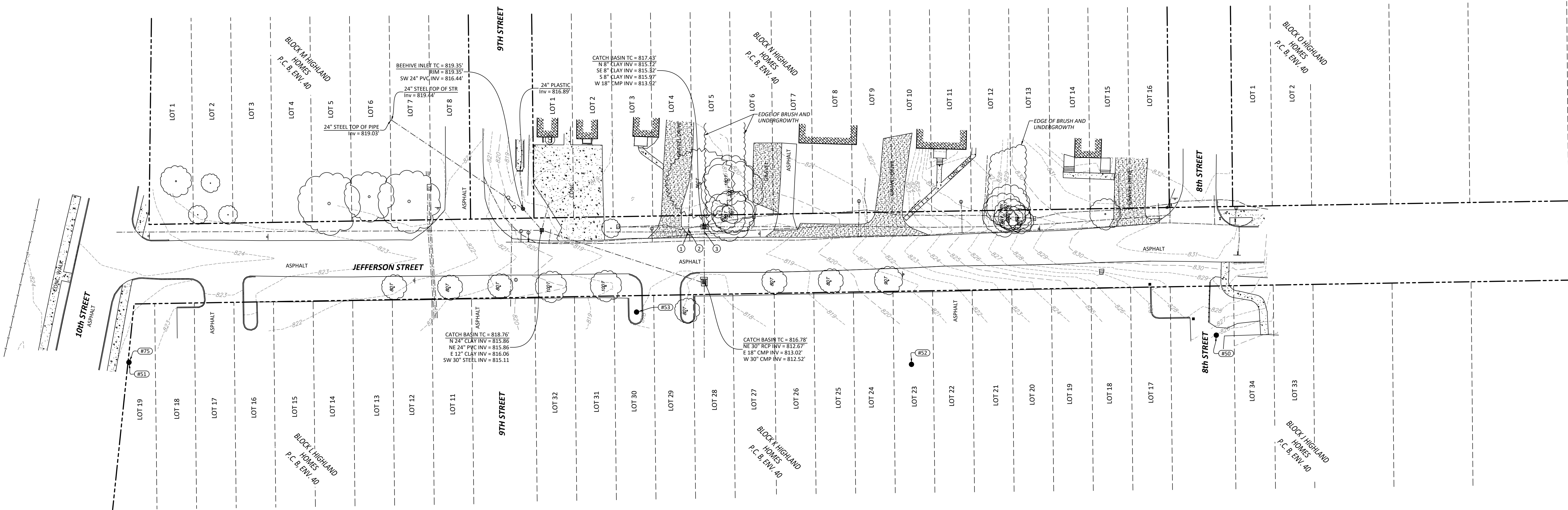
DESIGN ENGINEER

CITY OF BLOOMINGTON
JEFFERSON STREET SIDEWALK
IMPROVEMENT PROJECT

TITLE SHEET

BRCJ PROJECT 11824 CONSTRUCTION DRAWINGS 10-31-2025	REVISIONS
HORIZONTAL SCALE	SHEET
VERTICAL SCALE	C100

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SURVEY NOTES

1. FIELD WORK PERFORMED DECEMBER 20, 2024 - FEBRUARY 20, 2025.
2. CONTOURS REPRESENT 1-FOOT INTERVALS.
3. UTILITIES SHOWN HEREON ARE PER OBSERVED ABOVE GROUND EVIDENCE AND FROM UTILITY MARKINGS PLACED ON THE GROUND BY INDIANA811 MEMBER UTILITIES (SEE TICKETS BELOW). MEMBER UTILITIES DO NOT LOCATE PRIVATE LINES OR FACILITIES. MEMBER UTILITIES DO NOT LOCATE SERVICE LINES NOR ALL UTILITIES WHEN A SURVEY IS THE PURPOSE OF THE TICKET. OVERHEAD UTILITIES ARE IDENTIFIED AS OVERHEAD WITHOUT SPECIAL INVESTIGATION AS TO THE TYPE OR NATURE. STORM AND SANITARY INVERT ELEVATIONS, PIPE SIZES, AND MATERIALS ARE ALL APPROXIMATE BASED ON LIMITED INFORMATION AVAILABLE FROM THE SURFACE. NO STRUCTURES WERE ENTERED TO ACCURATELY MEASURE PIPE SIZES OR TO VERIFY PIPE TYPE AND MATERIAL. STRUCTURE GRATES AND COVERS SHOWN SHOULD NOT BE ASSUMED TO BE THE CENTER OF THE BELOW GROUND STRUCTURE. ALL UTILITIES INCLUDING LOCATIONS AND SIZES NEED TO BE VERIFIED PRIOR TO CONSTRUCTION EFFORTS.
4. THE FOLLOWING IS THE INDIANA 811 TICKET NUMBER FOR THIS PROJECT: 2412114552
5. THE FOLLOWING ARE THE MEMBER UTILITIES NOTIFIED BY INDIANA 811:
 - DUKE ENERGY
 - CENTERPOINT ENERGY (SOUTH)
 - CROWN CASTLE
 - HOOSIER NETWORKS, LLC
 - BLOOMINGTON TRAFFIC DIVISION, CITY OF
 - INDIANA UNIVERSITY (BLOOMINGTON)
 - ELECTRIC
 - COMMUNICATIONS
 - COMMUNICATIONS, FIBER OPTIC
 - TRAFFIC LIGHTS
 - COMMUNICATIONS, ELECTRIC, FIBER OPTIC, GAS, SEWER, STEAM, STORM, TELEPHONE, WATER

- BLOOMINGTON UTILITIES, CITY OF
AT&T - TRANSMISSION
EVERSTREAM, LLC (SOUTH)
AT&T - DISTRIBUTION
- SEWER, WATER
FIBER OPTIC
COMMUNICATIONS, FIBER OPTIC
COMMUNICATIONS
6. The utilities shown on this survey represent Quality Level B standard of care. The American Society of Civil Engineers (ASCE) has developed an important standard of care guideline, Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data, C/ASCE 38-02. This standard guideline describes four quality levels of utility depiction:
Quality Level D - Information derived from existing records or oral recollections.
Quality Level C - Information obtained by surveying and plotting visible above-ground utility features and by using professional judgment in correlating this information to Quality Level D.
Quality Level B - Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities.
Quality Level A - Precise horizontal and vertical location of utilities obtained by the actual exposure and subsequent measurement of subsurface utilities, usually at a specific point.
7. To order a copy of ASCE Standard 38-02, please go to the ASCE Bookstore: <http://www.pubs.asce.org/> or call 1-800-548-2723.
8. THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY, OR A SURVEYOR LOCATION REPORT.

LEGEND

	YARD LIGHT		AC UNIT
	LIGHT POLE		WATER VALVE
	SIGNAL POLE		FIRE MAIN POST
	UTILITY POLE		MAILBOX
	GUY WIRE		PROP. TANK
	CATCH BASIN		PARKING BLOCK
	CURB INLET		POST
	ELECTRIC MH		FD AXLE
	MANHOLE		FD BRASS DISK
	COMM. MH		FD COT GIN SPOLE
	SANITARY MH		FD CHISELED X
	SIGNAL MH		SET CHISELED X
	STEAM MH		SET DRILL HOLE
	STORM MH		FD HARRISON MON.
	WATER METER		SET HUB/TACK
	ELEC. METER		FD REBAR
	CLEANOUT		SET REBAR
	GAS METER		FD MAG NAIL
	GAS VALVE		SET MAG NAIL
			FD NAIL
			SET NAIL
			FD PIPE
			FD RR SPIKE
			SET RR SPIKE
			FD STONE
			RECORDED B&D
			MEASURED B&D

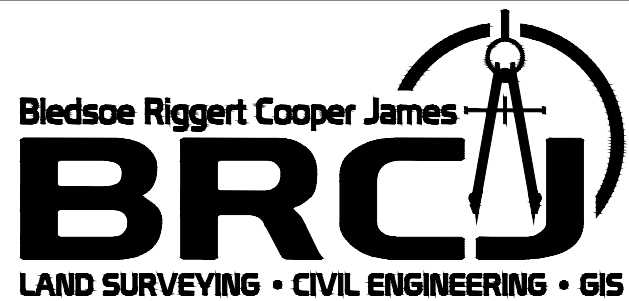
CONTROL POINTS

PT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	1428696.91	3116042.29	826.53	5/8" REBAR W/ CAP
51	1429383.18	3116025.17	823.14	5/8" REBAR W/ CAP
52	1428889.27	3116023.88	819.68	5/8" REBAR W/ CAP
53	1429062.80	3116056.87	818.58	5/8" REBAR W/ CAP
75	1429383.20	3116025.17	823.23	5/8" REBAR W/ CAP

HORIZONTAL DATUM: Reference Frame NAD 83(2011) Epoch 2010.0000, Indiana State Plane Coordinates West Zone, U.S. Survey Feet.
VERTICAL DATUM: NAVD88 (Computed using Geoid 12A), U.S. Survey Feet.

PLAN NOTES

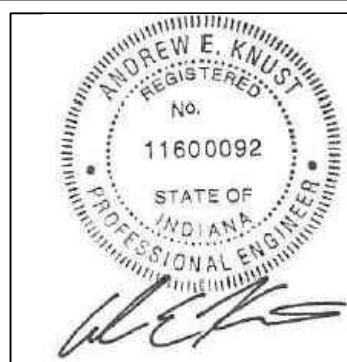
1. 2" PLASTIC GAS LINE DEPTH = 2.5'
2. GAS SERVICE LINE DEPTH = 2.0'
3. 2" GAS LINE OVER CMP DEPTH = 2.0'



RECOMMENDED FOR APPROVAL

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DESIGN ENGINEER

10-31-2025



CITY OF BLOOMINGTON
JEFFERSON STREET SIDEWALK
IMPROVEMENT PROJECT

EXISTING CONDITIONS

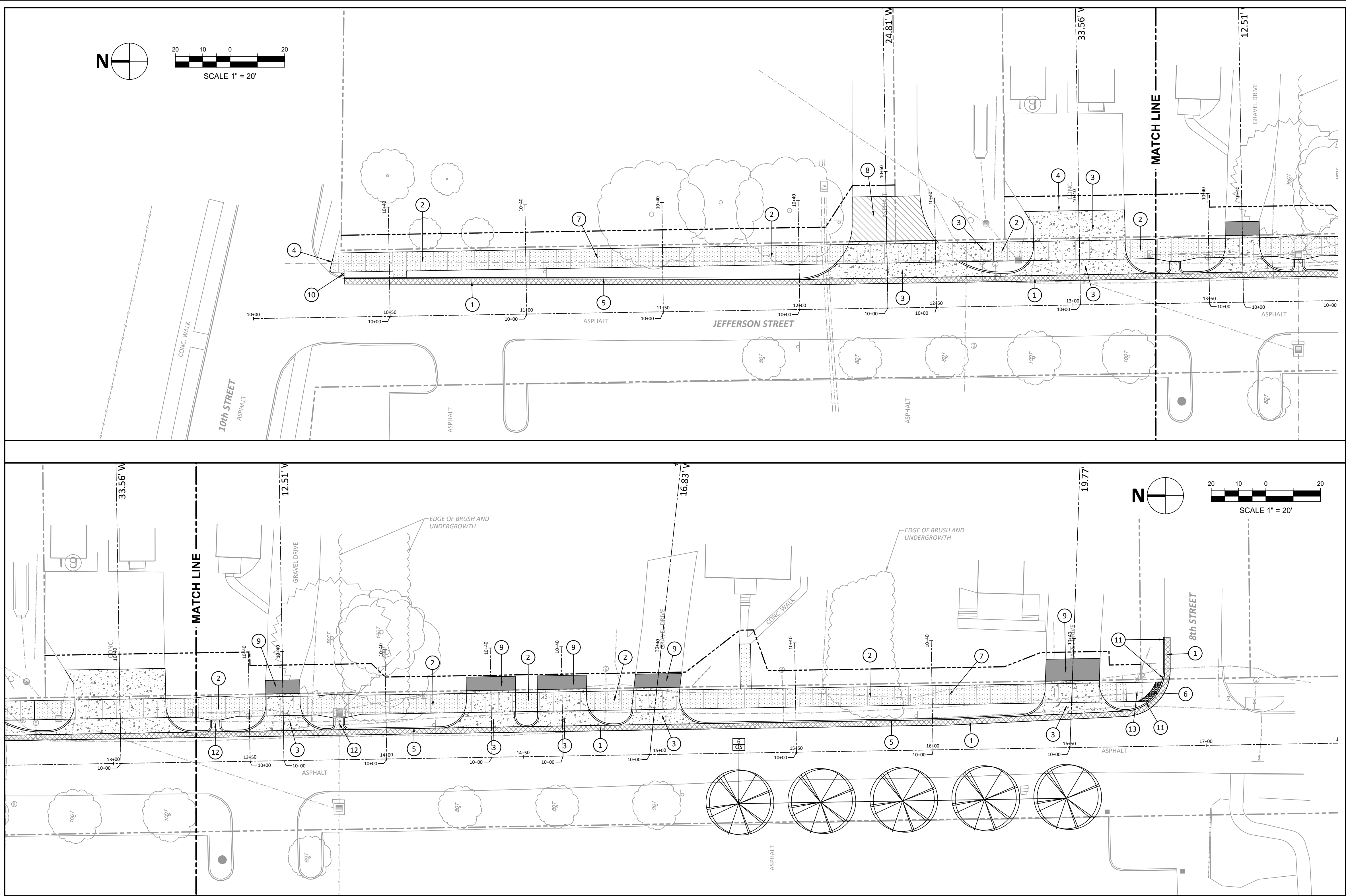
BRCJ PROJECT
11824
CONSTRUCTION DRAWINGS

10-31-2025
HORIZONTAL SCALE
1" = 30'
VERTICAL SCALE

REVISIONS

SHEET
C101

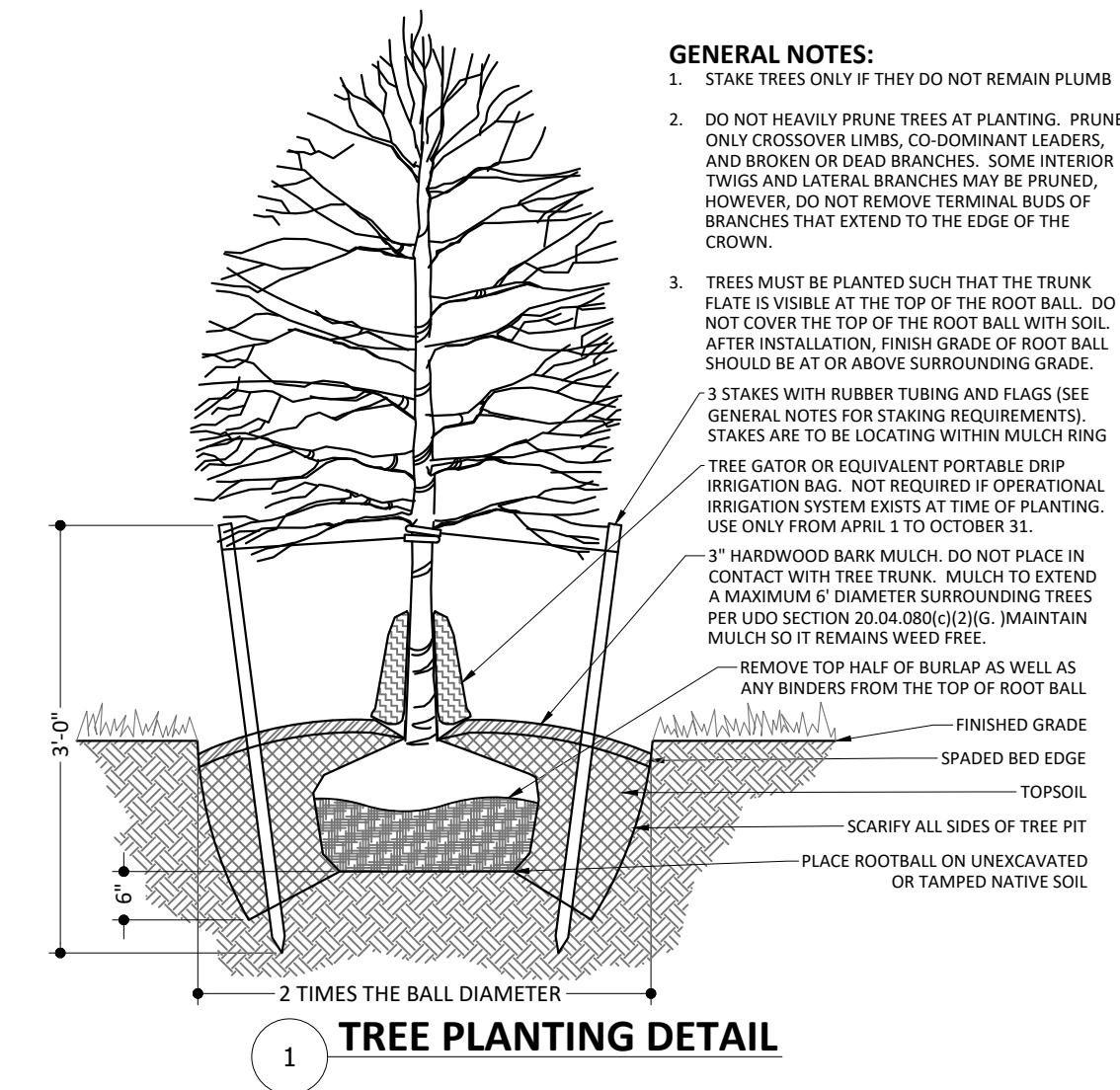
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- ### LANDSCAPING GENERAL NOTES
- A. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES AND CONDITIONS SUFFICIENT TO COMPLETE THE PLANTING AS SHOWN ON THE LANDSCAPE PLAN. PLANT MATERIAL QUANTITIES SHOWN ON PLAN TAKE PRECEDENCE OVER THOSE IN THE PLANT LIST.
- B. ALL PLANT MATERIAL SHALL CONFORM TO ANSI Z 60-1996 AND CURRENT ASSOCIATION OF AMERICAN NURSERYMEN STANDARDS. NO PARK GRADE MATERIAL SHALL BE ACCEPTED.
- C. SPECIMEN SIZES INDICATED ON PLANT SCHEDULE ARE MINIMUM ACCEPTABLE SIZES. LARGER SPECIMENS MAY BE UTILIZED.
- D. ALL PLANTING MASSES SHALL BE CONTAINED WITHIN MULCH BEDS AND RECEIVE 3" THICK SHREDED HARDWOOD MULCH. BARK MULCH SHALL NOT EXTEND MORE THAN 1' BEYOND DRIP LINE OF SHRUBS. ALL TREES OUTSIDE PLANTING BED AREAS SHALL RECEIVE A 5' MIN., 6' MAXIMUM DIAMETER MULCH RING AT BASE.
- E. ALL LANDSCAPED AREAS NOT BARK MULCHED SHALL BE SEEDED OR SODDED AS INDICATED, UNLESS NOTED OTHERWISE. ALL OTHER AREAS DISTURBED, GRADED OR OTHERWISE MODIFIED BY NEW CONSTRUCTION SHALL RECEIVE 6" OF TOP SOIL, SEED AND MULCH. SEE SPECIFICATIONS FOR SEEDING REQUIREMENTS.
- F. ALL PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS THE PLANT'S ORIGINAL GRADE PRIOR TO DIGGING. ALL PLANTS SHALL BE SET PLUMB, UNLESS NOTED OTHERWISE, IT IS THE CONTRACTOR'S OPTION TO STAKE TREES. HOWEVER, IT SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY TO ASSURE PLANTS REMAIN PLUMB UNTIL THE END OF CONTRACTED GUARANTEE PERIOD.
- G. ALL PLANTINGS SHALL BE WATERED DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. WATER THOROUGHLY TO ENSURE ALL AIR POCKETS ARE REMOVED AROUND ROOT BALL.
- H. CONTRACTOR IS RESPONSIBLE FOR WATERING AND MAINTAINING PLANT MATERIAL UNTIL TIME OF ACCEPTED ESTABLISHMENT.
- I. ALL PLANTING BED EDGES TO BE SPADE CUT UNLESS SPECIFIED WITH MOW STRIP OR OTHER INSTALLED EDGING.
- J. ANY PLANT MATERIAL SUBSTITUTIONS INSTALLED WITHOUT APPROVAL FROM DESIGNER AND/OR OWNER SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. ALL SUBSTITUTION MUST ALSO BE REVIEWED AND APPROVED BY CITY OF BLOOMINGTON TRANSPORTATION AND PLANNING PRIOR TO INSTALLATION.
- K. ALL PLANTING MATERIALS, REGARDLESS OF SIZE SPECIFIED, SHALL BE OF SIZES THAT COMPLY WITH CITY OF BLOOMINGTON UDO LANDSCAPING STANDARDS.
- Q. ACCORDING TO UDO SECTION 20.04.080(C)(2)(G)(I) DEVELOPMENT STANDARDS & INCENTIVES: LANDSCAPING, BUFFERING, AND FENCES; GENERAL LANDSCAPING; PLANT MATERIAL STANDARDS; GROUND COVER;
- I. EXCEPT IN THE PD ZONING DISTRICT, TURF GRASS AND OTHER VEGETATIVE GROUND COVER SHALL BE USED FOR ALL LANDSCAPED AREAS, EXCEPT AS LISTED BELOW. CRUSHED ROCK OR GRAVEL IS NOT ALLOWED AS GROUND COVER.
1. PARKING LOT BUMP-OUTS, ISLANDS, AND END-CAPS SMALLER THAN 324 SQUARE FEET MAY USE MULCH.
2. AREAS WITHIN 24 INCHES OF A BUILDING FOUNDATION AND UNDERNEATH STAIRCASES MAY USE MULCH OR DECORATIVE STONE.
3. FOR SINGLE-FAMILY, DUPLEX, TRIPLEX, AND FOURPLEX USES, MULCH, AND DECORATIVE STONE MAY ONLY BE USED IN DEFINED LANDSCAPE BEDS WITH RAISED BORDERS.
- II. EXCEPT AS PROVIDED IN SECTION 20.04.080(C)(2)(G)(I), DECORATIVE MULCH OR STONE SHALL NOT BE USED AS GROUND COVER EXCEPT ONE FOOT BEYOND THE DRIP LINE OF SHRUBBERY AND SHALL BE NO MORE THAN SIX FEET IN DIAMETER SURROUNDING TREES.
- III. APPROVED STORMWATER DETENTION AND RETENTION FACILITIES MAY UTILIZE DECORATIVE MULCH OR STONE ON A ONE-TIME BASIS AT TIME OF INSTALLATION AS ALLOWED OR REQUIRED BY CITY OF BLOOMINGTON UTILITIES. LANDSCAPING STONE OR RIPRAP OR OTHER NON-VEGETATIVE MATERIAL MAY BE INCORPORATED IN STORMWATER TREATMENT ALTERNATIVES, SUCH AS SWALES OR CULVERT OUTFALLS, AS APPROVED BY CITY OF BLOOMINGTON UTILITIES.

PLANTING SCHEDULE: Street Trees

KEY	QUA.	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION
QS	5	Quercus shumardii	Shumard Oak	2" Caliper Minimum	B & B



GENERAL NOTES

- A. ALL DIMENSIONS ARE TO FACE OF CURB, POINT OF TANGENCY, EDGE OF PAVEMENT, EDGE OF WALK, FACE OF BUILDING OR FENCELINE, UNLESS OTHERWISE NOTED. CURB RETURN RADII ARE TO FACE OF CURB.
- B. CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- C. ALL DISTURBED AREAS SHALL RECEIVE 6" OF TOP SOIL, SEED, AND MULCH, OR BE IMPROVED AS NOTED OTHERWISE.
- D. SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- E. ALL STREET CUTS FOR UTILITIES AND OTHER IMPROVEMENTS SHALL BE REPAIRED TO MATCH EXISTING PAVEMENT SECTION OR BETTER.
- F. CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF BLOOMINGTON UTILITIES (CBU) TECHNICIAN (812-349-3676) PRIOR TO THE START OF CONSTRUCTION TO HAVE A CBU INSPECTOR ASSIGNED TO THIS PROJECT.

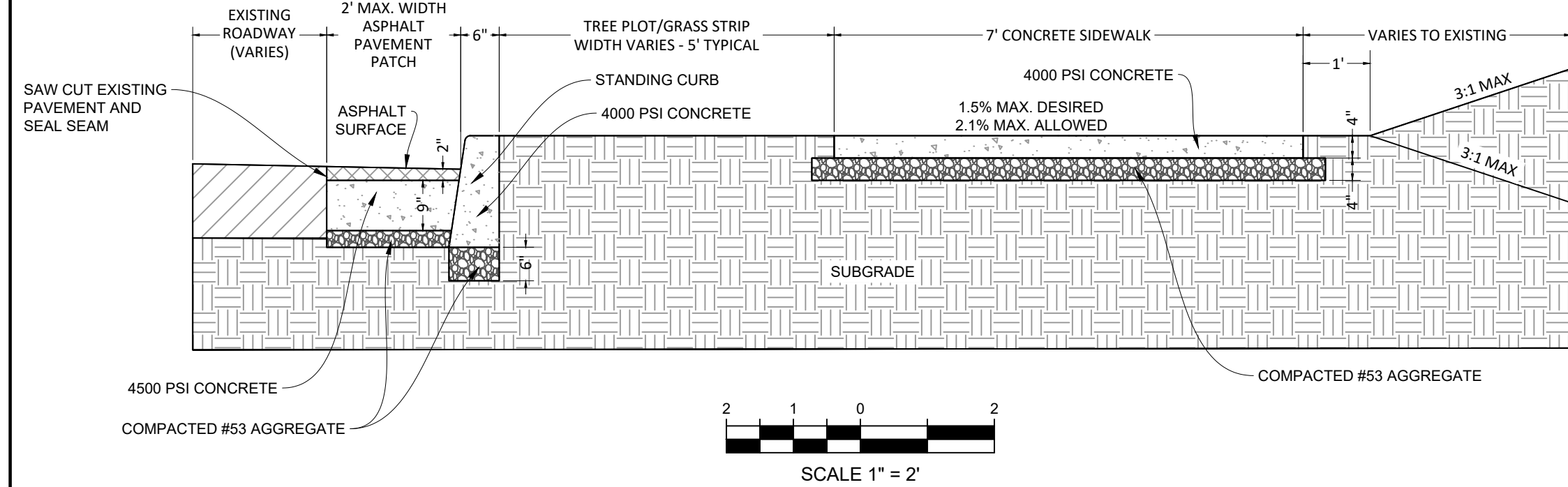
PLAN NOTES ⑤

- ① ASPHALT PAVEMENT PATCH - REFER TO DETAIL 2/C601
- ② CONCRETE PAVEMENT, STANDARD DUTY - REFER TO DETAIL 4/C601
- ③ CONCRETE PAVEMENT, HEAVY DUTY - REFER TO DETAIL 8/C601
- ④ EXISTING CONCRETE TO NEW CONCRETE - REFER TO DETAIL 1/C602
- ⑤ CONCRETE STANDING CURB - REFER TO DETAIL 3/C601
- ⑥ DETECTABLE WARNING SURFACE - REFER TO DETAILS, SHEET C602
- ⑦ EXPANSION AND/OR SCORE JOINT (TYPICAL) - REFER TO DETAIL 6/C601
- ⑧ ASPHALT PAVEMENT - REFER TO DETAIL 7/C601
- ⑨ GRAVEL PAVEMENT, 8" COMPACTED NO. 53 STONE
- ⑩ REINSTALL EXISTING STOP SIGN
- ⑪ CONCRETE CURB TRANSITION - REFER TO DETAIL 10/C601
- ⑫ COMBINED CURB AND GUTTER TURNOUT - REFER TO DETAIL ON SHEET C602
- ⑬ CURB RAMP - REFER TO DETAILS, SHEET C602

LEGEND

	LIMITS OF NEW CONCRETE SIDEWALK
	LIMITS OF NEW CONCRETE PAVING
	LIMITS OF DETECTABLE WARNING SURFACE
	LIMITS OF ASPHALT PAVEMENT PATCH
	ASPHALT PAVEMENT
	GRAVEL PAVEMENT

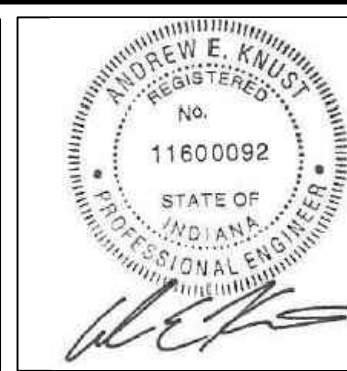
TYPICAL CROSS SECTION



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DESIGN ENGINEER

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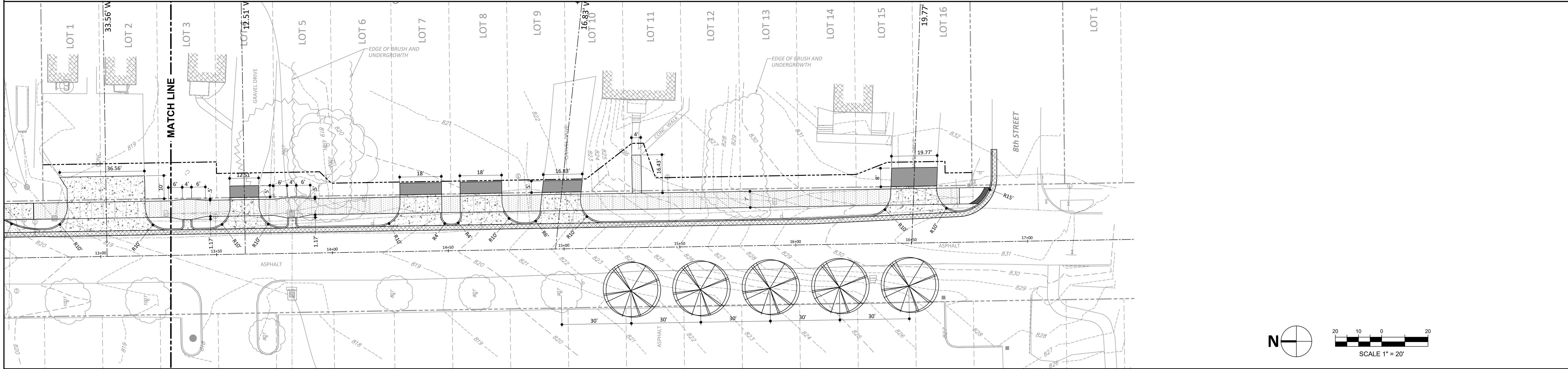
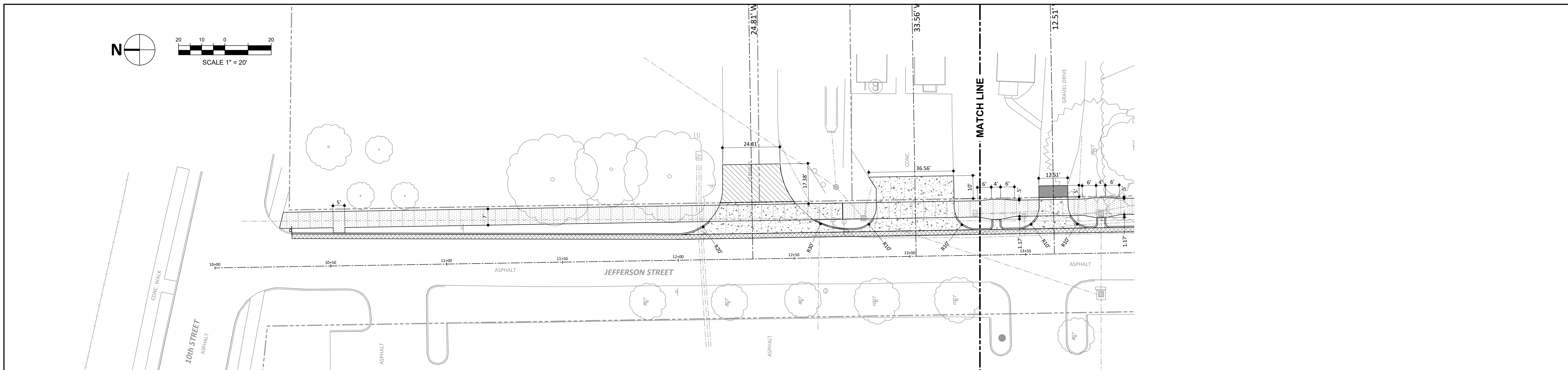


CITY OF BLOOMINGTON
JEFFERSON STREET SIDEWALK
IMPROVEMENT PROJECT

SIDEWALK IMPROVEMENT PLAN

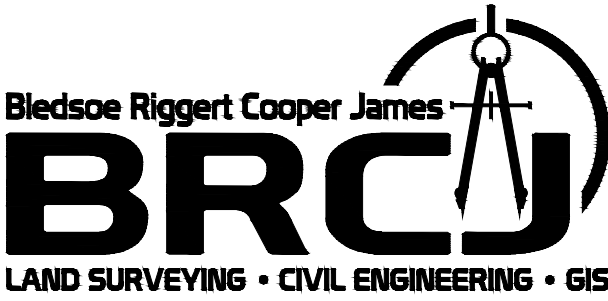
BRCJ PROJECT	REVISIONS
11824	
CONSTRUCTION DRAWINGS	
10-31-2025	
HORIZONTAL SCALE	SHEET
1" = 20'	
VERTICAL SCALE	C301

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GENERAL NOTES

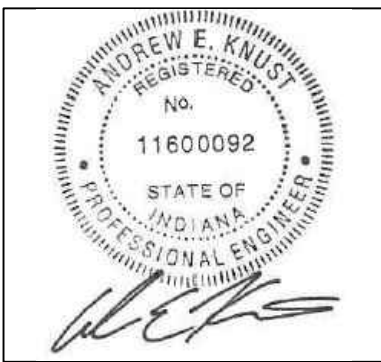
- A. ALL DIMENSIONS ARE TO FACE OF CURB, POINT OF TANGENCY, EDGE OF PAVEMENT, EDGE OF WALK, FACE OF BUILDING OR FENCELINE, UNLESS OTHERWISE NOTED. CURB RETURN RADII ARE TO FACE OF CURB.
- B. CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- C. ALL DISTURBED AREAS SHALL RECEIVE 6" OF TOP SOIL, SEED, AND MULCH, OR BE IMPROVED AS NOTED OTHERWISE.
- D. SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- E. ALL STREET CUTS FOR UTILITIES AND OTHER IMPROVEMENTS SHALL BE REPAIRED TO MATCH EXISTING PAVEMENT SECTION OR BETTER.
- F. CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF BLOOMINGTON UTILITIES (CBU) TECHNICIAN (812-349-3676) PRIOR TO THE START OF CONSTRUCTION TO HAVE A CBU INSPECTOR ASSIGNED TO THIS PROJECT.



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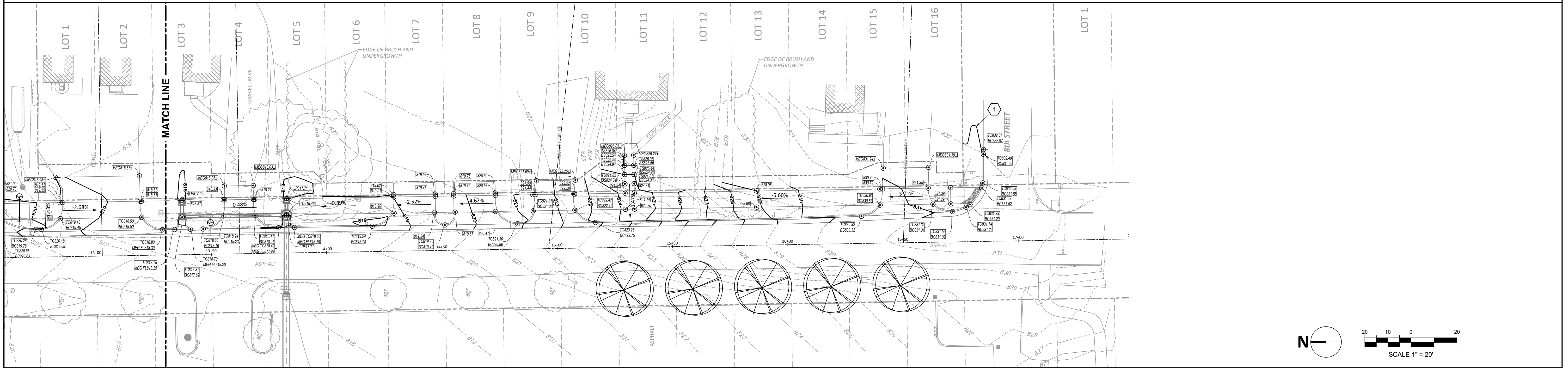
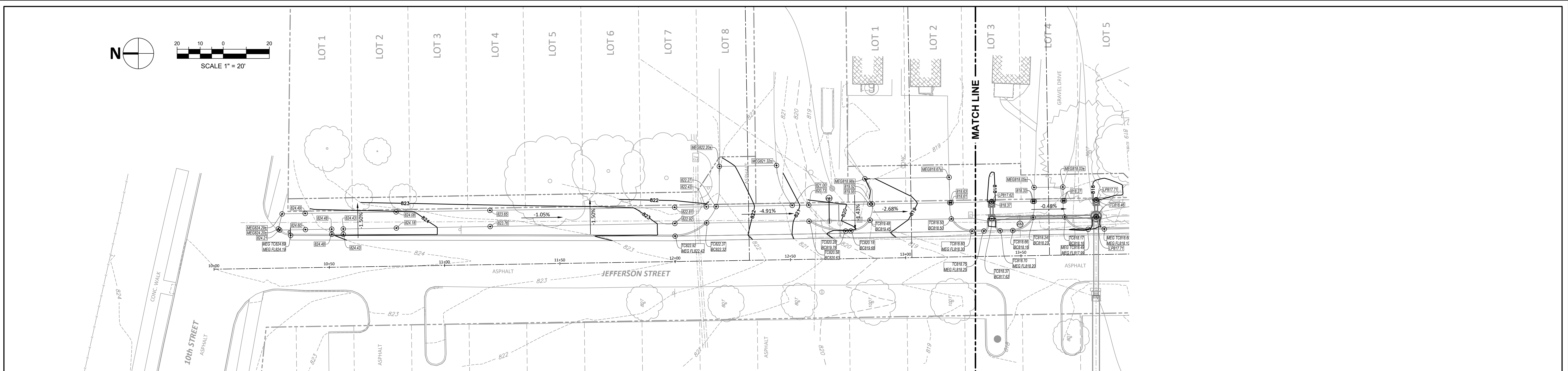


CITY OF BLOOMINGTON
JEFFERSON STREET SIDEWALK
IMPROVEMENT PROJECT

SIDEWALK LAYOUT PLAN

BRCJ PROJECT 11824 CONSTRUCTION DRAWINGS 10-31-2025	REVISIONS
HORIZONTAL SCALE 1" = 20'	SHEET
VERTICAL SCALE	C302

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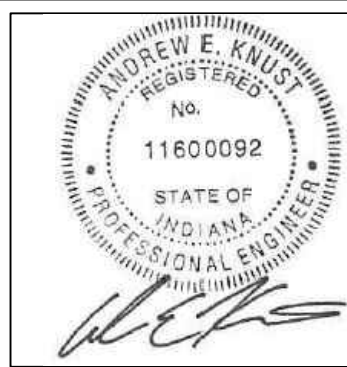
GENERAL NOTES	LEGEND	PLAN NOTES 1	
1. GRADE ALL AREAS TO THE FINISH GRADE SHOWN. 2. CONTRACTOR TO VERIFY FIELD CONDITIONS WITH RESPECT TO THE PROPOSED GRADING AND NOTIFY ENGINEER OF ANY AND ALL DISCREPANCIES PRIOR TO BEGINNING WORK. 3. INSTALL AND MAINTAIN EROSION CONTROL DEVICES AS REQUIRED AND WHERE NECESSARY TO CONTROL SEDIMENT. 4. CONTRACTOR SHALL ADJUST ALL CASTINGS TO FINISHED GRADE. 5. CONTRACTOR SHALL ESTABLISH FINISH GRADE TO ENSURE POSITIVE DRAINAGE WITH NO PONDING. 6. LONGITUDINAL SIDEWALK SLOPE SHALL NOT EXCEED 5% AND TRANSVERSE SIDEWALK SLOPE SHALL NOT EXCEED 2% UNLESS INDICATED OTHERWISE. 7. CONTRACTOR SHALL COORDINATE EXACT UTILITY LOCATIONS WITH THE OWNER AND LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION SERVICES INC., AT 1-800-382-5544 AND OTHER UTILITIES PRIOR TO ANY EXCAVATION ON THE SITE.	LIMITS OF NEW GRAVEL PAVEMENT LIMITS OF NEW CONCRETE PAVING LIMITS OF PAVEMENT PATCH EXISTING CONTOURS PROPOSED CONTOURS TC TOP OF CURB BC BOTTOM OF CURB BW BOTTOM OF WALL MEG MATCH EXISTING GRADE LP LOW POINT	1. INSTALL LOW EARTHEN BERM ALONG 8TH STREET RIGHT OF WAY TO DIRECT STREET DRAINAGE TOWARD CURB LINE. RESTORE DISTURBED AREA WITH 6" OF TOPSOIL, SEED, AND EROSION CONTROL BLANKET.	



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10-31-2025



CITY OF BLOOMINGTON
JEFFERSON STREET SIDEWALK
IMPROVEMENT PROJECT

SITE GRADING PLAN

BRCJ PROJECT
11824
CONSTRUCTION DRAWINGS
10-31-2025

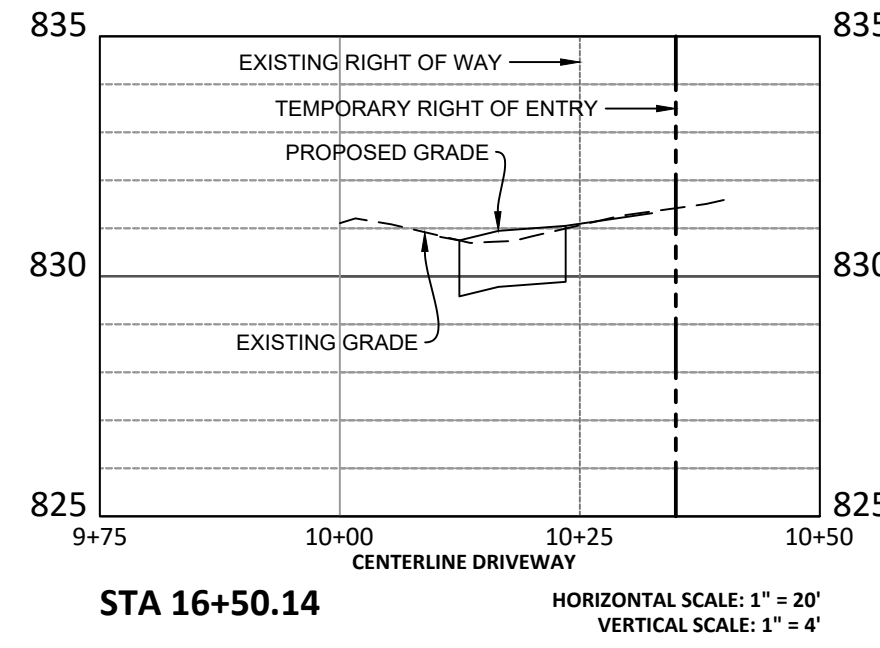
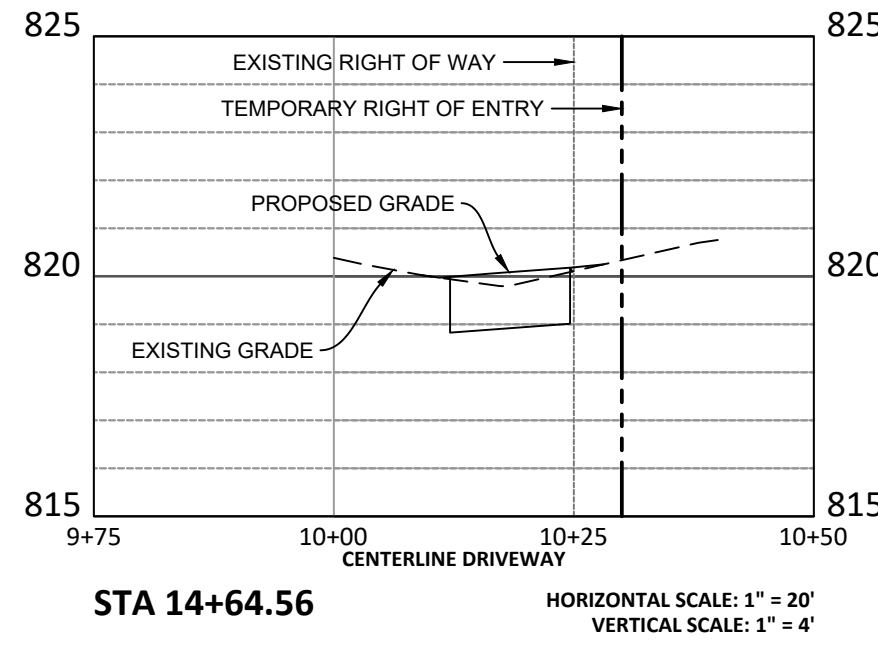
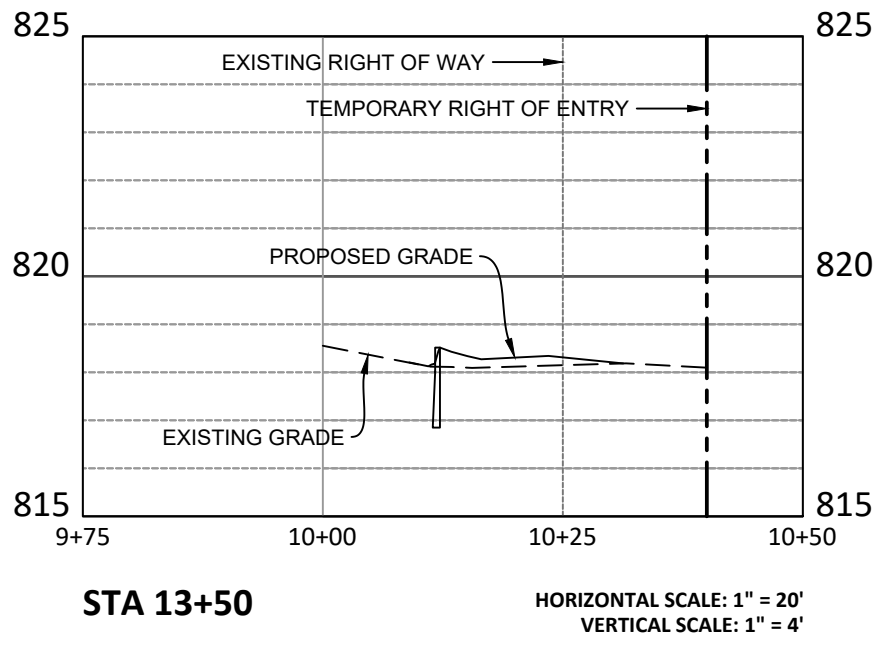
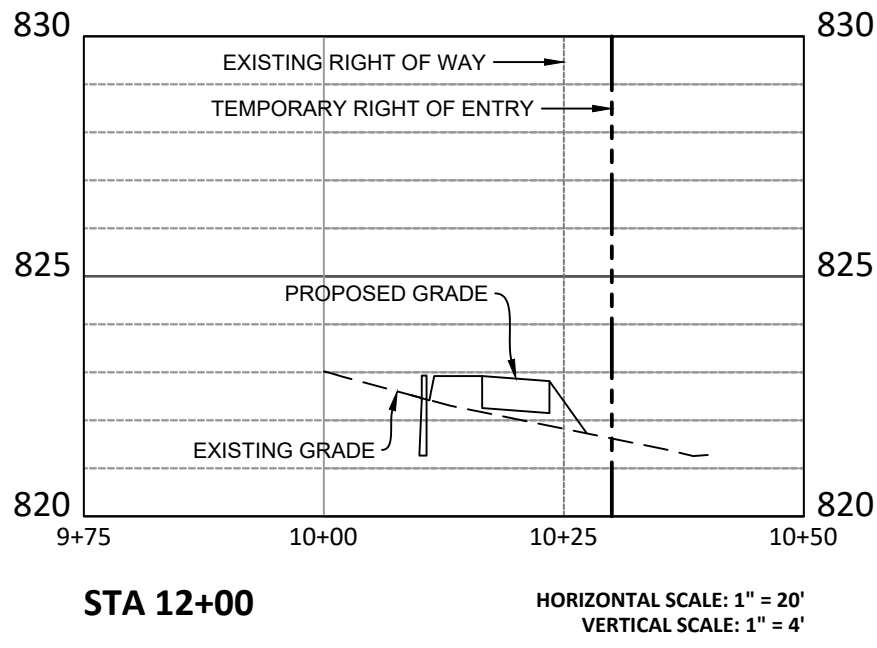
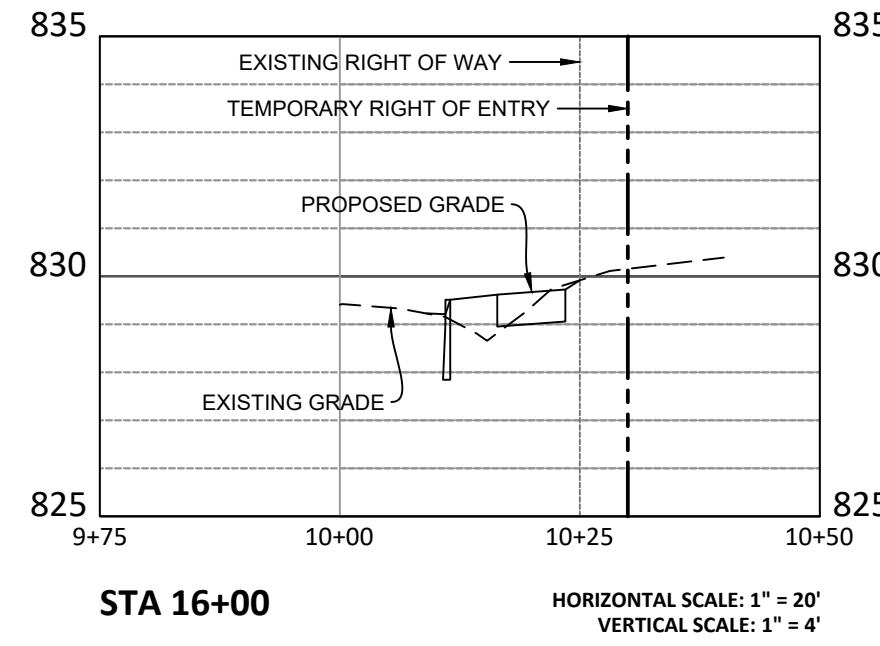
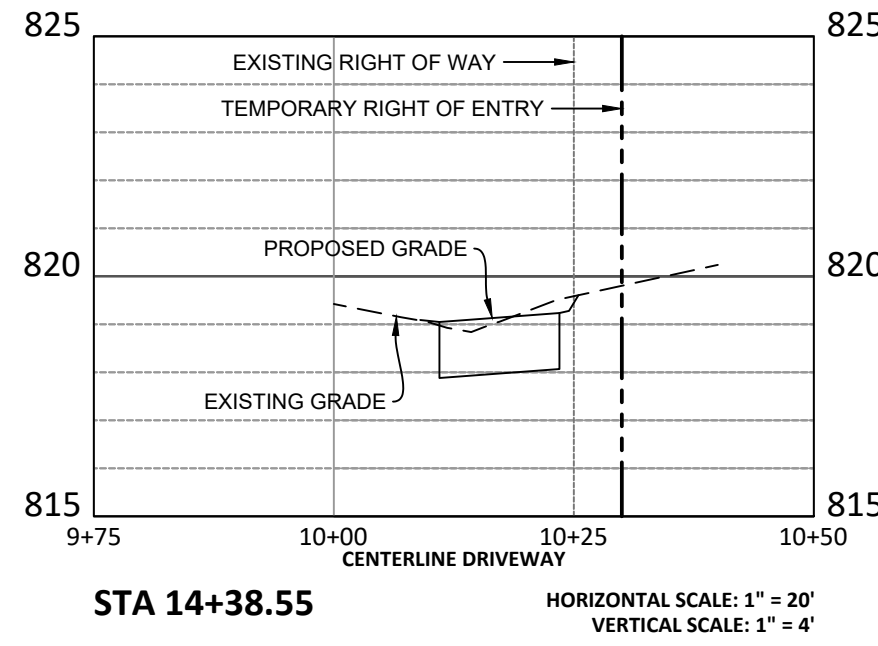
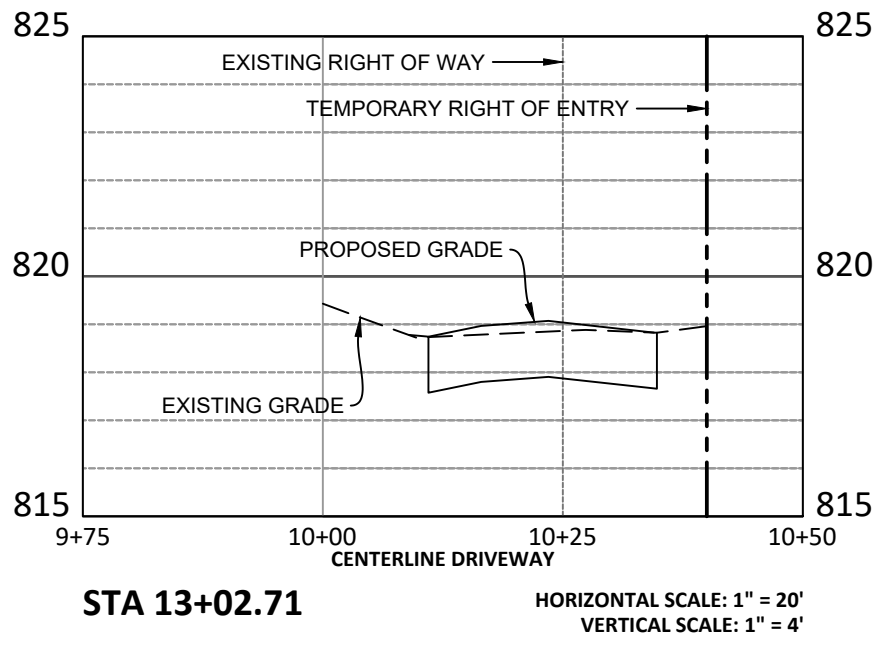
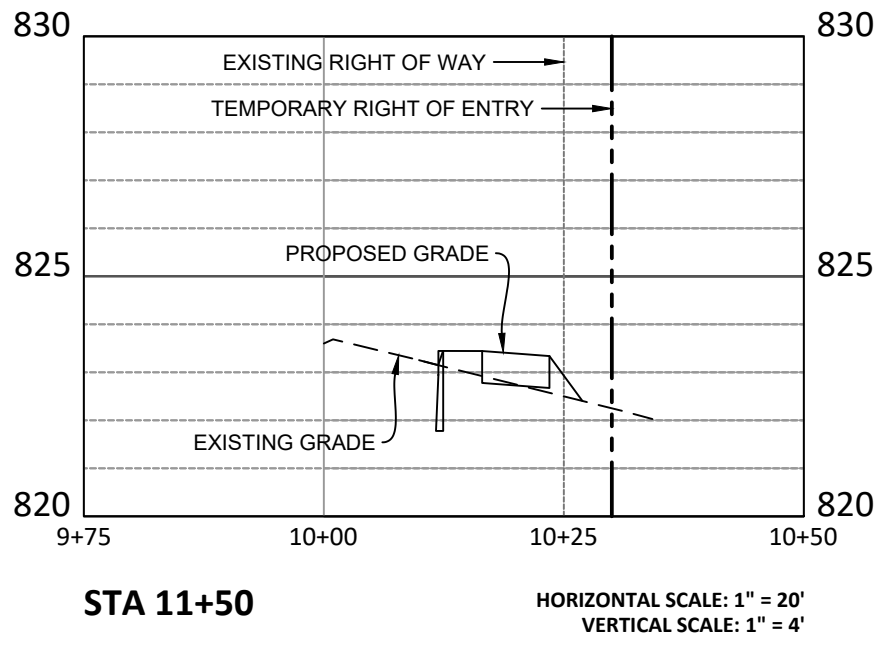
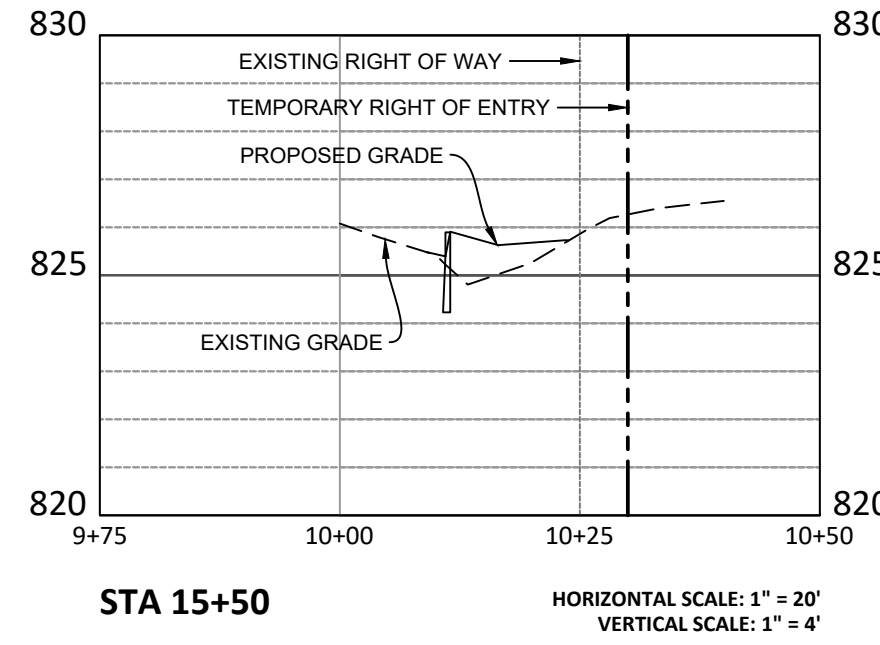
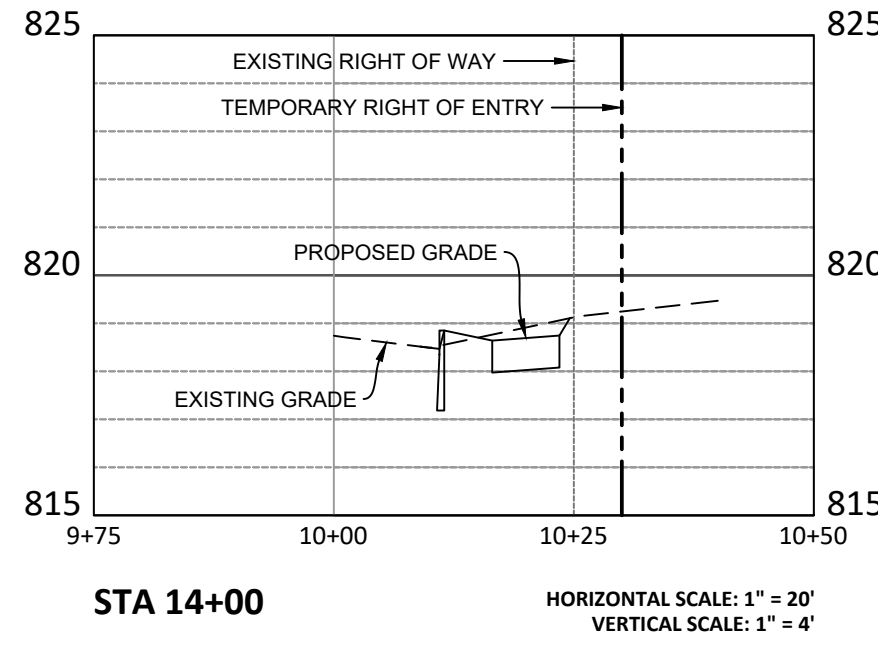
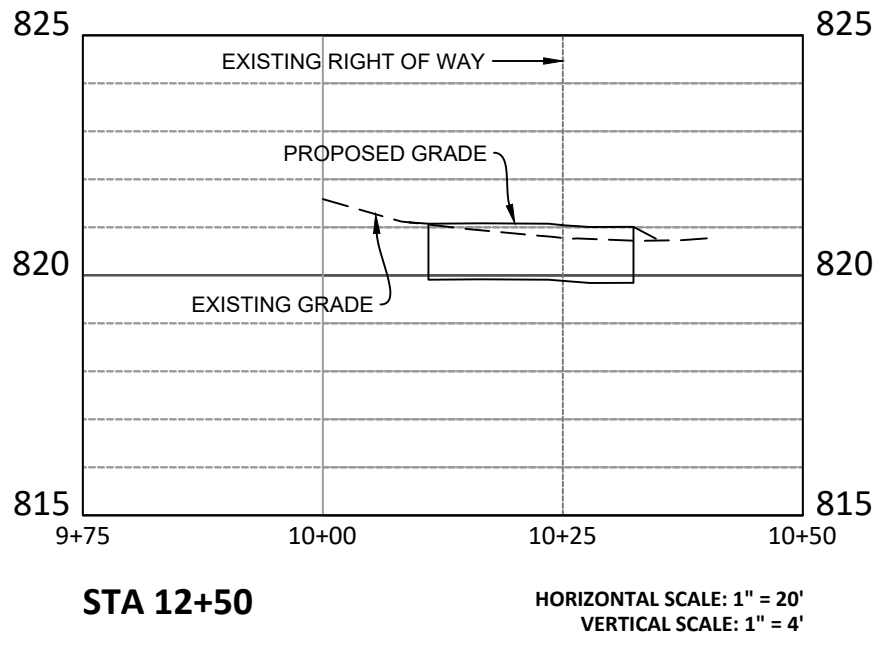
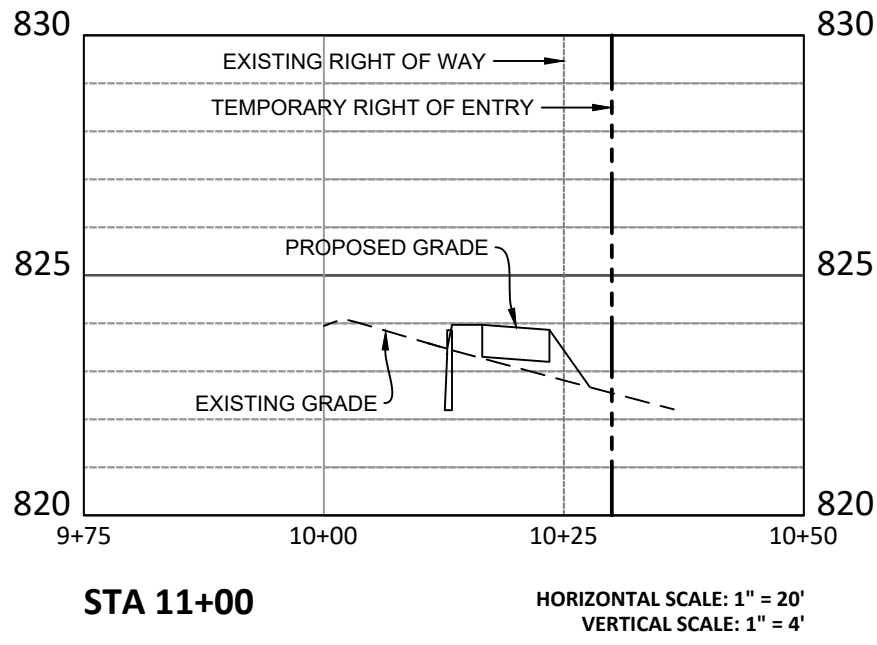
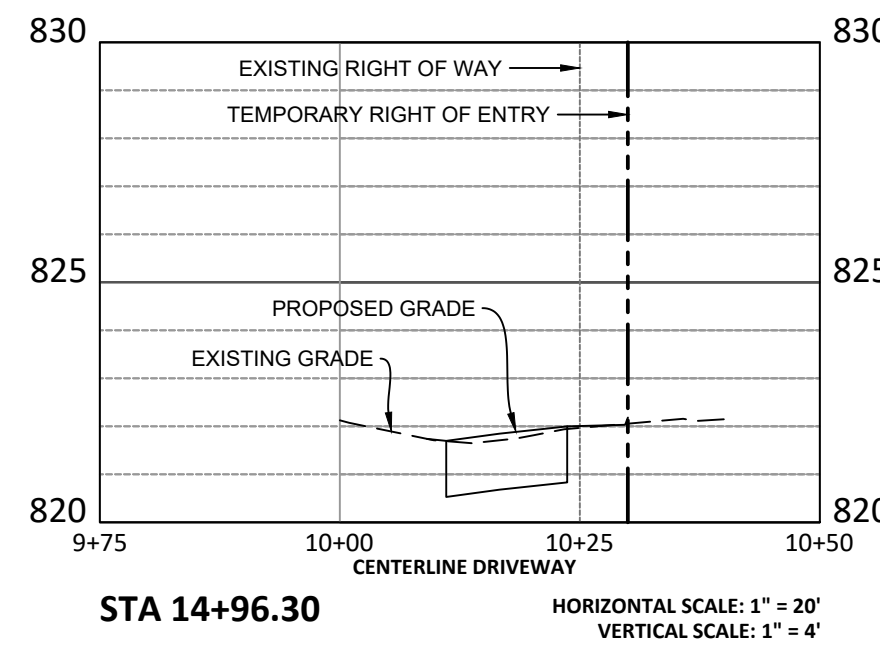
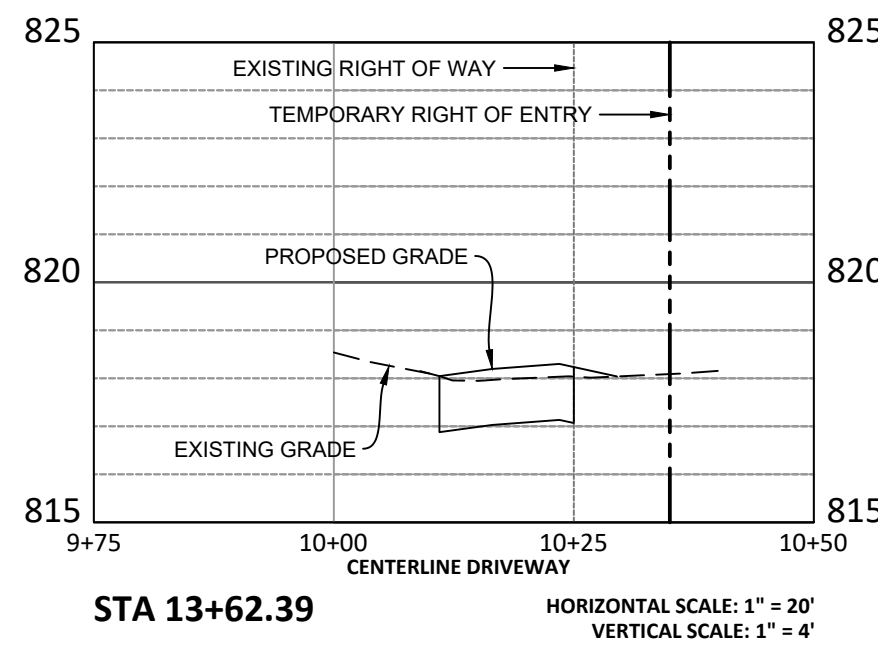
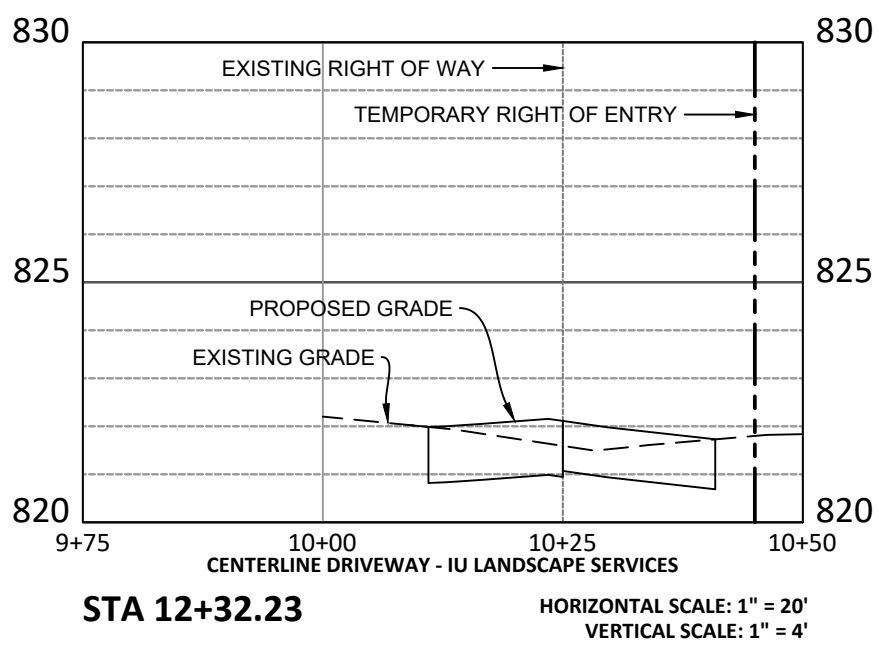
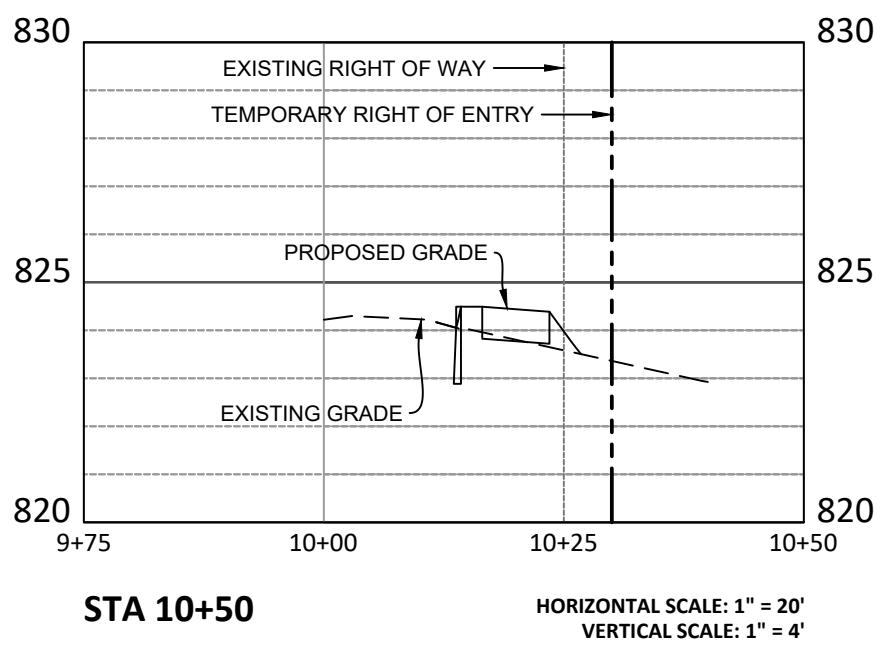
HORIZONTAL SCALE
1" = 20'
VERTICAL SCALE

REVISIONS

SHEET

C401

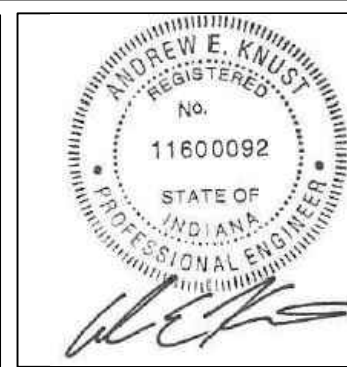
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RECOMMENDED FOR APPROVAL

ANDREW E. KNUST, P.E.
DESIGN ENGINEER

10-31-2025



CITY OF BLOOMINGTON
JEFFERSON STREET SIDEWALK
IMPROVEMENT PROJECT

CROSS-SECTIONS

BRCJ PROJECT
11824
CONSTRUCTION DRAWINGS
10-31-2025

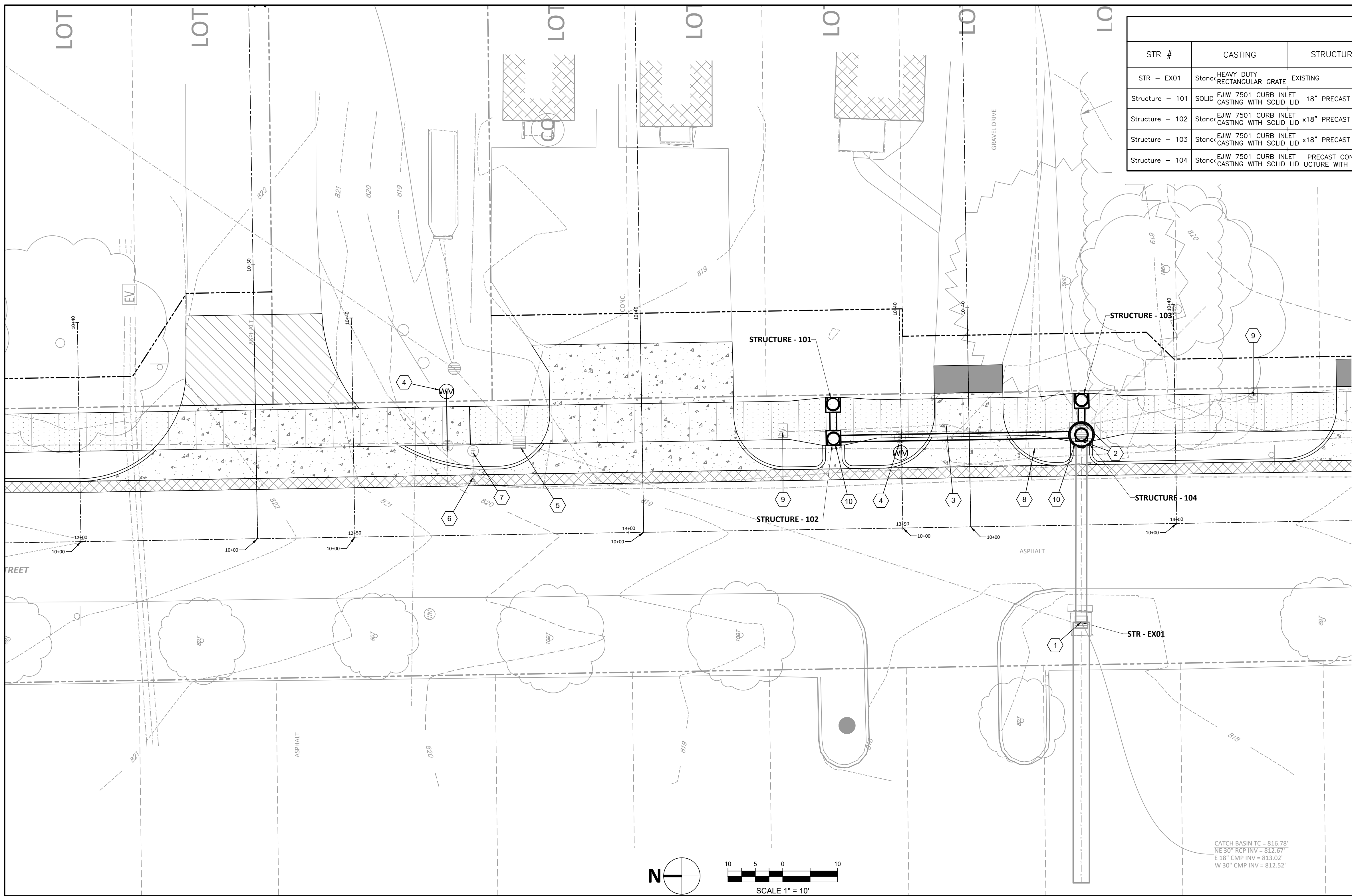
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VERTICAL SCALE

REVISIONS

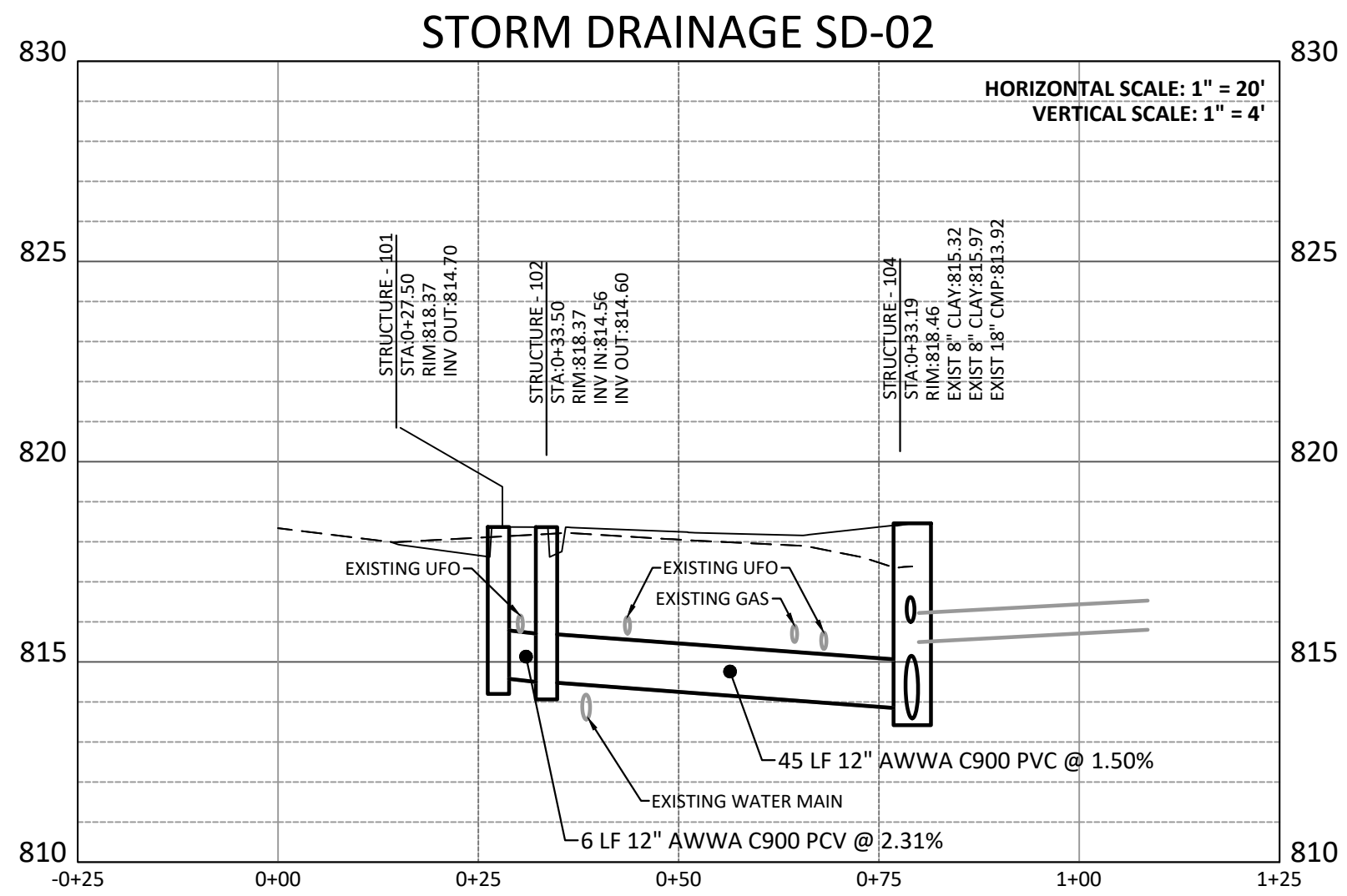
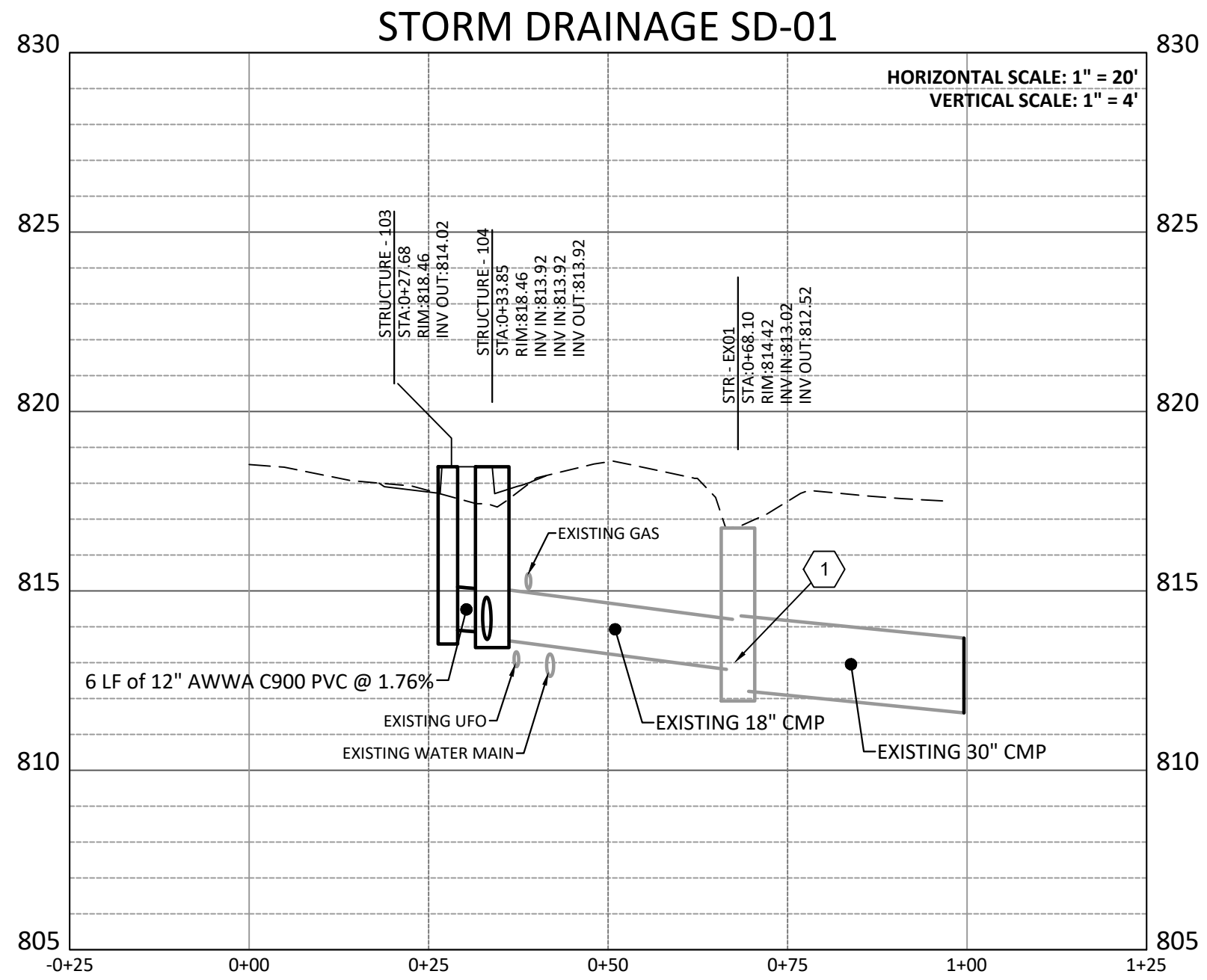
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STORM STRUCTURE DATA TABLE											
STR #	CASTING	STRUCTURE TYPE/DETAIL	REFERENCE PROFILE	NORTHING EASTING	RIM ELEV	PIPE SIZE	PIPE INV (OUT)	DOWN STR #	PIPE LENGTH	PIPE SLOPE %	NOTES
STR - EX01	Stand HEAVY DUTY RECTANGULAR GRATE	EXISTING	SD-01	1429020.06 3116075.72	814.42	28"	30" 12.52		47.58	2.00%	①
Structure - 101	SOLID EUJW 7501 CURB INLET CASTING WITH SOLID LID	18" PRECAST INLET STRUCTURE	SD-02	1429065.37 3116115.38	818.37	12"	814.70	Structure - 102	6.00	2.31%	⑩
Structure - 102	Stand EUJW 7501 CURB INLET CASTING WITH SOLID LID	x18" PRECAST INLET STRUCTURE	SD-02	1429065.28 3116109.38	818.37	12"	814.60	Structure - 104	45.26	1.50%	
Structure - 103	Stand EUJW 7501 CURB INLET CASTING WITH SOLID LID	x18" PRECAST INLET STRUCTURE	SD-01	1429020.00 3116116.14	818.46	12"	814.02	Structure - 104	6.17	1.76%	
Structure - 104	Stand EUJW 7501 CURB INLET CASTING WITH SOLID LID	PRECAST CONCRETE MANHOLE UCTURE WITH FLAT TOP	SD-01	1429020.02 3116109.97	818.46	18"	813.92	STR - EX01	34.26	2.63%	② ⑩



GENERAL NOTES

- ED REFER TO DEMOLITION PLANS FOR SEQUENCE OF UTILITY REPLACEMENT TO ENSURE CONTINUOUS SERVICE OF ALL UTILITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING AS REQUIRED TO COMPLETELY INSTALL THE WORK INDICATED.
- CONTRACTOR SHALL COORDINATE EXACT UTILITY LOCATIONS WITH THE OWNER AND LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION SERVICES INC, AT 1-800-382-5544 AND OTHER UTILITIES PRIOR TO ANY EXCAVATION ON THE SITE.
- ALL WORK ASSOCIATED WITH WATER AND SEWER SYSTEMS SHALL COMPLY WITH THE STANDARDS & REQUIREMENTS OF THE INDIANA DEPT. OF ENVIRONMENTAL MANAGEMENT (IDEM), THE INDIANA STATE DEPARTMENT OF HEALTH (IDSH), THE AMERICAN WATER WORKS ASSOCIATION (AWWA), THE GREAT LAKES-UPPER MISSISSIPPI BOARD OF STATE PUBLIC HEALTH AND ENVIRONMENTAL MANAGERS (GLUMRB), THE INDIANA PLUMBING CODE AND THE CITY OF BLOOMINGTON UTILITIES CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL SET ALL EXISTING AND PROPOSED CASTINGS AND CLEANOUT COVERS TO FINAL FINISHED GRADE.
- A MINIMUM OF 18 INCHES VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER AND SANITARY/STORM SEWER UNLESS OTHERWISE INDICATED, OR UNLESS WRITTEN PERMISSION IS GIVEN BY THE ENGINEER. SEWERS CROSSING WATER MAINS SHALL BE LAID TO MAINTAIN A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND

- OUTSIDE OF THE SEWER MAIN. THIS SHALL BE THE CASE WHETHER THE WATER MAIN IS ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE JOINTS IN THE SEWER MAIN WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE JOINTS IN THE WATER MAIN. THE CROSSING MUST BE AT A MINIMUM ANGLE OF 45° MEASURED FROM THE CENTERLINE OF THE SEWER AND WATER MAINS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE.
- A MINIMUM OF 10 FEET HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER AND SANITARY/STORM SEWER UNLESS OTHERWISE INDICATED, OR UNLESS WRITTEN PERMISSION IS GIVEN BY THE ENGINEER.
 - ALL STORM AND SANITARY MANHOLES AND STORM INLET STRUCTURES SHALL HAVE A MINIMUM SEPARATION OF 8' FROM WATER MAINS.
 - ALL SANITARY LATERALS SHALL HAVE A MINIMUM COVER OF 30" UNLESS NOTED OTHERWISE.
 - ALL STORM LATERALS SHALL HAVE A MINIMUM COVER OF 24" UNLESS NOTED OTHERWISE.
 - ALL SANITARY AND STORM LATERALS SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT UNLESS NOTED OTHERWISE.
 - ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 48". INSTALL LINES WITH NO ISOLATED HIGH POINTS.
 - WHERE DISSIMILAR PIPING MATERIALS ARE JOINED TOGETHER ALONG GRAVITY SANITARY AND STORM LATERALS, THE CONTRACTOR SHALL USE A NON-SHEAR COUPLING EQUAL TO FERCO.
 - CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND LANDSCAPE PLANS FOR ADDITIONAL UTILITY MODIFICATIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.

- CONTRACTOR TO EXTEND ALL FOUNDATION, SUBDRAIN, UNDERDRAIN, INTERNAL DRAIN, ROOF DRAIN AND RETAINING WALL DRAIN PIPING TO THE NEAREST PROPOSED STORM STRUCTURE WHILE MAINTAINING POSITIVE FLOW, UNLESS NOTED OTHERWISE. ALL CONNECTIONS SHALL BE WATER TIGHT.
- PRE CONSTRUCTION MEETING: EFFECTIVE MARCH 1, 2010, ALL PROJECTS WILL REQUIRE A PRE-CONSTRUCTION MEETING WITH THE CITY OF BLOOMINGTON UTILITIES (CBU) PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR AND/OR DEVELOPER MUST CONTACT THE UTILITIES TECHNICIAN AT (812)349-3676 TO SCHEDULE THE MEETING.
- UTILITIES INSPECTION: CONTRACTOR SHALL NOTIFY THE CITY OF BLOOMINGTON UTILITIES ENGINEERING DEPARTMENT ONE (1) WORKING DAY PRIOR TO CONSTRUCTION OF ANY WATER, STORM OR SANITARY SEWER UTILITY WORK. A CBU INSPECTOR MUST HAVE NOTICE SO WORK CAN BE INSPECTED, DOCUMENTED, AND A PROPER AS-BUILT MADE. WHEN A CONTRACTOR WORKS ON WEEKENDS, A CBU DESIGNATED HOLIDAY, OR BEYOND NORMAL CBU WORK HOURS, THE CONTRACTOR WILL PAY FOR THE INSPECTOR'S OVERTIME. FOR CBU WORK HOURS AND HOLIDAY INFORMATION, PLEASE CONTACT THE CITY OF BLOOMINGTON UTILITIES DEPARTMENT AT (812)349-3660

PLAN NOTES ①

- REMOVE EXISTING FRAME AND GATE. REPLACE WITH A NEW HEAVY DUTY FRAME AND GRATE, SIZED TO FIT THE EXISTING STRUCTURE.
- RECONNECT EXISTING 8" CLAY AND 18" CMP STORM PIPES TO NEW MANHOLE. USE AWWA C900 PVC TO REPLACE CLAY AS NEEDED. PROVIDE NON-SHEAR COUPLINGS, FERCO OR EQUAL TO JOIN DISSIMILAR PIPE MATERIALS.
- RELOCATE FIBER OPTIC WHERE IN CONFLICT WITH STORM IMPROVEMENTS. COORDINATE WITH M2STREET FIBER.
- RELOCATE WATER METER INTO TREE PLOT - COORDINATE WITH CBU.
- PROVIDE NEW CASTING - EUJW 1020 FRAME AND SOLID COVER - MATCH FINISH GRADE OF NEW SIDEWALK.
- EXISTING VALVE BOX - ADJUST CASTING TO GRADE.
- RAISE FIRE HYDRANT TO MATCH EXISTING GRADE.
- RELOCATE GAS WHERE IN CONFLICT WITH STORM IMPROVEMENTS - COORDINATE WITH CENTER POINT ENERGY.
- ADJUST FIBER HANDHOLES TO MATCH FINISH GRADE - COORDINATE WITH M2STREET FIBER.
- APPLY WATER PROOF EPOXY COATING TO INTERIOR WALLS OF STORM MANHOLES AND INLETS WITHIN 8' OF EXISTING WATER MAIN

AT&T
Zachary Deckard - (812) 334-4505

DUKE ENERGY
Rob Sanders - (812) 668-0490

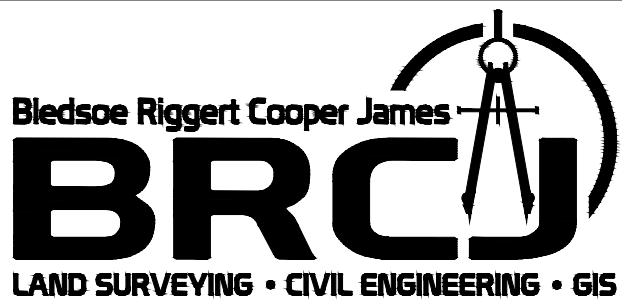
CITY OF BLOOMINGTON UTILITIES (CBU)
Caden Swanson - (812) 339-1444

CENTERPOINT
Timmy Langston - (812) 348-6703

COMCAST
Dan Nienaber - (812) 447-0468

SMITHVILLE
Mason Bohall - (812) 935-2267

M2STREET FIBER
Malcolm Glover - (812) 543-3222



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DESIGN ENGINEER

10-31-2025



CITY OF BLOOMINGTON
JEFFERSON STREET SIDEWALK
IMPROVEMENT PROJECT

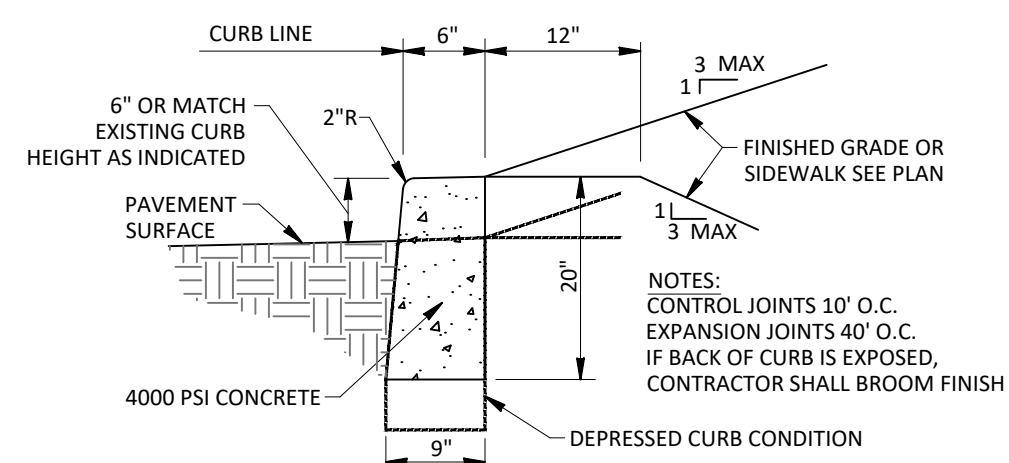
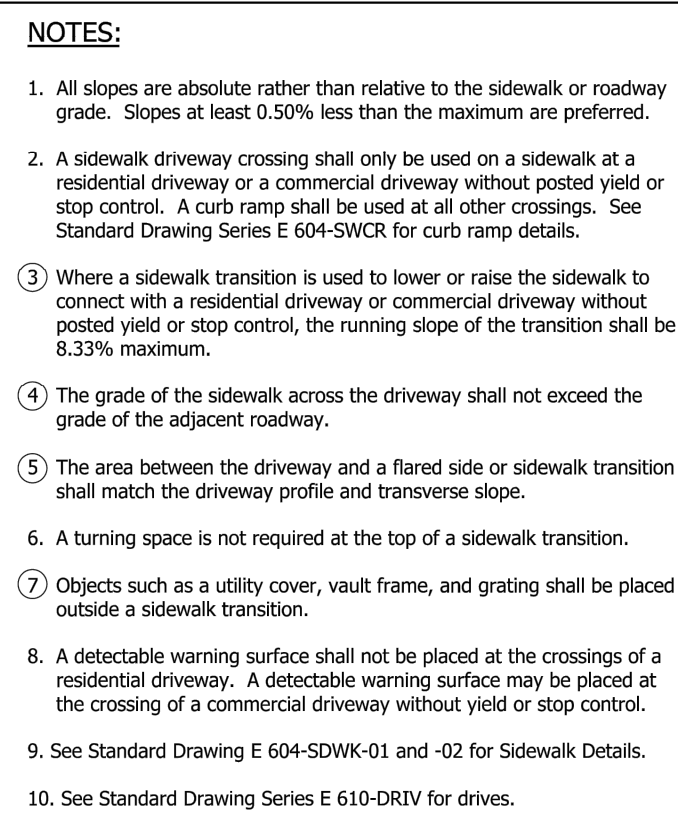
SITE UTILITY PLAN AND
DRAINAGE PROFILES

BRCJ PROJECT
11824
CONSTRUCTION DRAWINGS
10-31-2025

HORIZONTAL SCALE
SEE PLAN ABOVE
VERTICAL SCALE
SEE PLAN ABOVE

REVISIONS

SHEET
C501



INDIANA DEPARTMENT OF TRANSPORTATION		
SIDEWALK DRIVEWAY CROSSING		
SEPTEMBER 2016		
STANDARD DRAWING NO.		E 604-SDWK-03
	<i>/s/ Elizabeth W. Phillips</i> DESIGN STANDARDS ENGINEER	<i>03/16/16</i> DATE
	<i>/s/ Mark A. Miller</i> CHIEF ENGINEER	<i>03/16/16</i> DATE

*DO NOT RETOOL AFTER BROOM FINISH.

SELF LEVELING POLYURETHANE SEALANT, 1/2" DEEP

1/2" CLOSED CELL POLYETHYLENE FOAM EXPANSION JOINT MATERIAL, 1/2" WIDTH MAXIMUM

EXPANSION JOINTS WHERE PAVING ABUTTS VERTICAL SURFACE AND AS SHOWN. EXPANSION JOINTS SHALL OTHERWISE BE SPACED AT A MAXIMUM OF 40' O.C.

The diagram illustrates two methods for installing a storm sewer grate. The top method shows a grate with liftstraps and a Velcro closure. The bottom method shows a grate with a Dandy Bag® closure.

Top Method:

- STORM SEWER GRATE:** The grate is shown with liftstraps and a Velcro closure.
- LIFTSTRAPS:** These are the straps used to secure the grate.
- VELCRO CLOSURE:** This is the mechanism used to seal the grate.

Bottom Method:

- STORM SEWER GRATE:** The grate is shown with a Dandy Bag® closure.
- DANDY BAG®:** This is the closure mechanism used to seal the grate.

4" VARIES - SEE PLAN 4"

4000 PSI CONCRETE WITH #4 REBAR 12" O.C. BOTH WAYS AT MID - DEPTH OF CONCRETE - 3" CLEAR ALL EDGES

BROOM FINISH

FINISHED GRADE LINE

4"

4" MIN. COMPACTED NO. 53 AGGREGATE

4"

1 NTS

#5 REBAR SPACED 12" O.C. IN BOTH DIRECTIONS

6"

4"

CONCRETE PAVEMENT-4000 PSI

COMPACTED AGGREGATE BASE #53

COMPACTED SUBGRADE

NTS

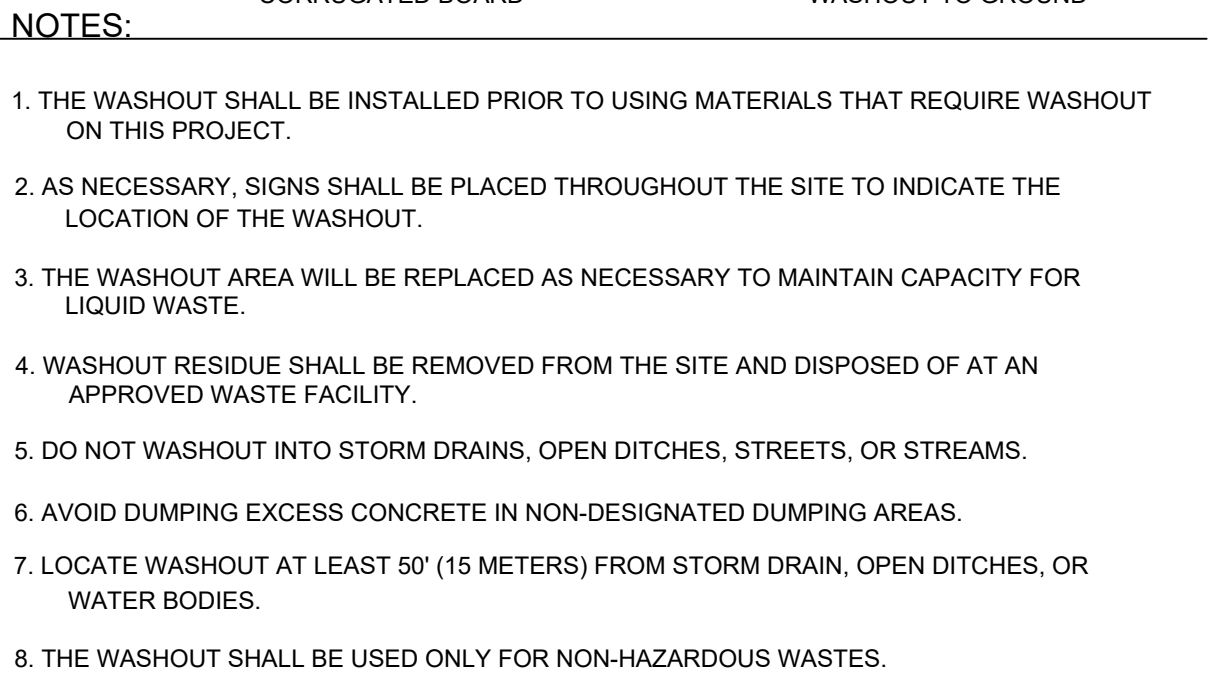
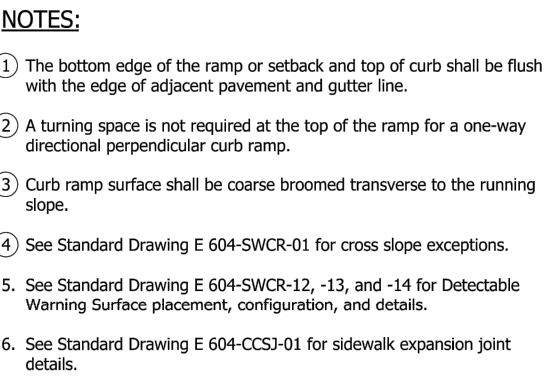
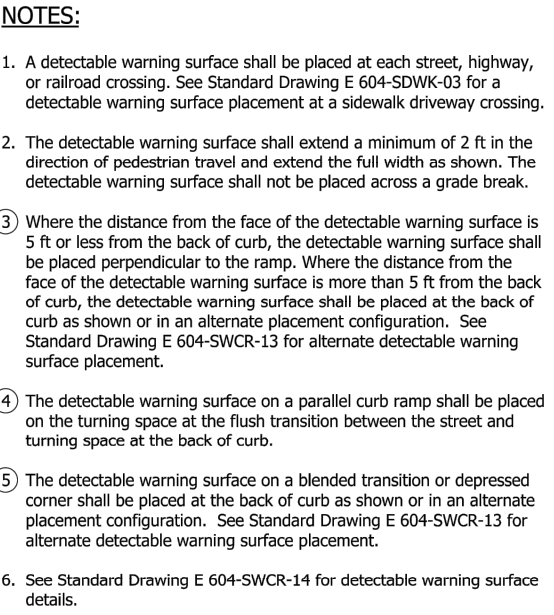
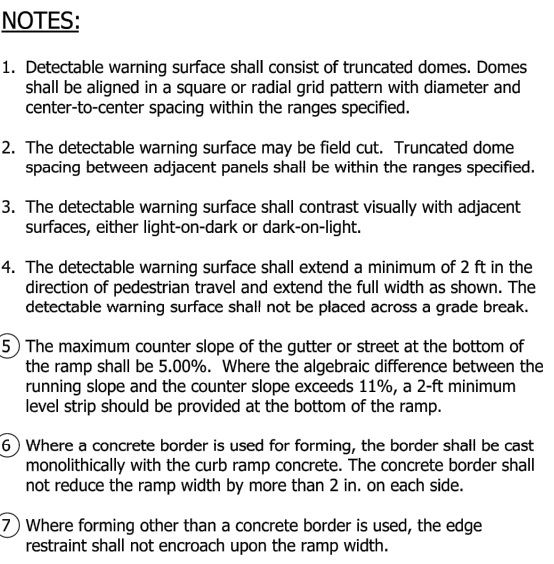
4 NTS

Diagram illustrating the required tree protection zone (TPZ) for a tree. The diagram shows a tree with a trunk and canopy. A chain link fence is installed around the tree, with a minimum height of 4'0" and a minimum depth of 2'0". The fence is labeled "CHAIN LINK FENCE". The distance from the tree trunk to the fence is labeled "10'-0\" MAX. POST SPACING". The total width of the protection zone is labeled "DRIPLINE (VARIES)". A warning sign is shown on the fence, labeled "TREE PROTECTION WARNING SIGN". The sign text reads: "TREE PROTECTION WARNING SIGN MINIMUM SIGN CONSTRUCTED AND SECURED ONE SIGN AT ALONG FENCE".

11 TREE PROTECTION FENCE DETAIL

TREE PROTECTION NOTES

1. ANY EXISTING TREES INTENDED TO BE PRESERVED AND COUNTIES TOWARD MINIMUM LANDSCAPE REQUIREMENTS SHALL BE PROTECTED DURING THE ENTIRE DURATION OF CONSTRUCTION BY A TREE PROTECTION BARRIER. THE TREE PROTECTION BARRIER SHALL BE INSTALLED AT THE TREE PROTECTION ZONE AND BE AT LEAST A FEET TALL, HIGHLY VISIBLE, STURDY, AND HAVE WARNING SIGNS ON OR NEAR IT FOR THE DURATION OF THE CONSTRUCTION ACTIVITY.
2. DURING ANY ACTIVE CONSTRUCTION ACTIVITY WITHIN THE TREE PROTECTION ZONE, A THREE-FOOT MINIMUM RADIUS SURROUNDING THE DRILLPIPE OF THE TREE.
3. NO EQUIPMENT OR SUPPLY STORAGE, EQUIPMENT MOVEMENT, REST OR PICKNICKING AREA, OR ANY LAND DISTURBING ACTIVITIES SHALL BE ALLOWED IN THE TREE PROTECTION ZONE.
4. GENERAL CONTRACTOR SHALL CONTACT ENGINEER TO SCHEDULE ON SITE MEETING TO REVIEW INSTALLATION AND LAYOUT OF THE TREE PROTECTION FENCING.



SLOPE	SOCK DIAMETER				
	8"	12"	18"	24"	
2%	85'	100'	100'	100'	
5%	50'	75'	100'	100'	
10%	40'	50'	85'	100'	
5:1	35'	40'	55'	60'	
4:1	30'	40'	50'	50'	
3:1	30'	35'	40'	40'	

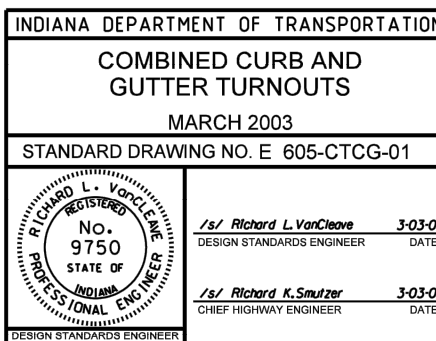
NOTES: Install perpendicular to flow, and stake at 10-foot intervals. The beginning and end of the installation should point slightly up the slope, creating a J shape at each end to contain runoff and prevent it from flowing around the ends of the sock. Accumulated sediment should be removed, or a new sock installed, when it reaches approximately one-half of the sock diameter. If sheet flows are bypassing or breaching the sock during design storm events, it must be repaired immediately and better secured, expanded, enlarged or augmented with additional erosion and sediment control practices.



NTS



NTS



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DESIGN ENGINEER

10-31-2025



CITY OF BLOOMINGTON
JEFFERSON STREET SIDEWALK
IMPROVEMENT PROJECT

SITE DETAILS

BRCJ PROJECT
11824
CONSTRUCTION DRAWINGS
10-31-2025

HORIZONTAL SCALE

[illegible]

VERTICAL SCALE

REVISIONS

SHEET

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