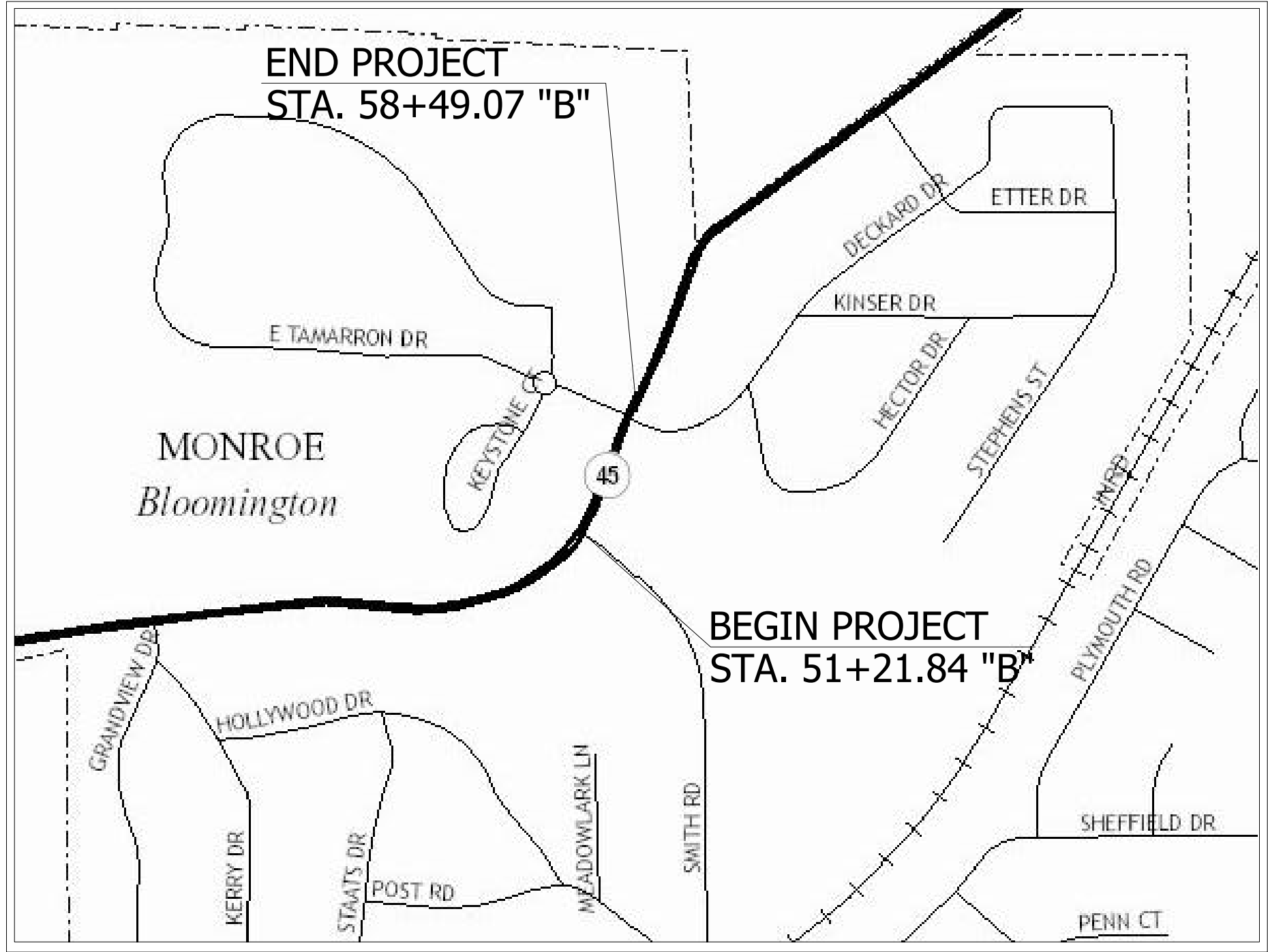


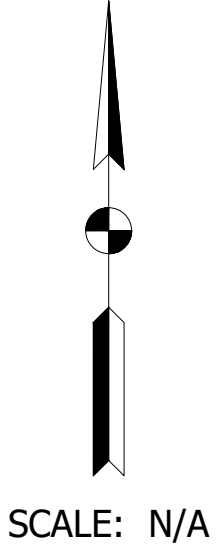
CITY OF BLOOMINGTON

ROAD PLANS

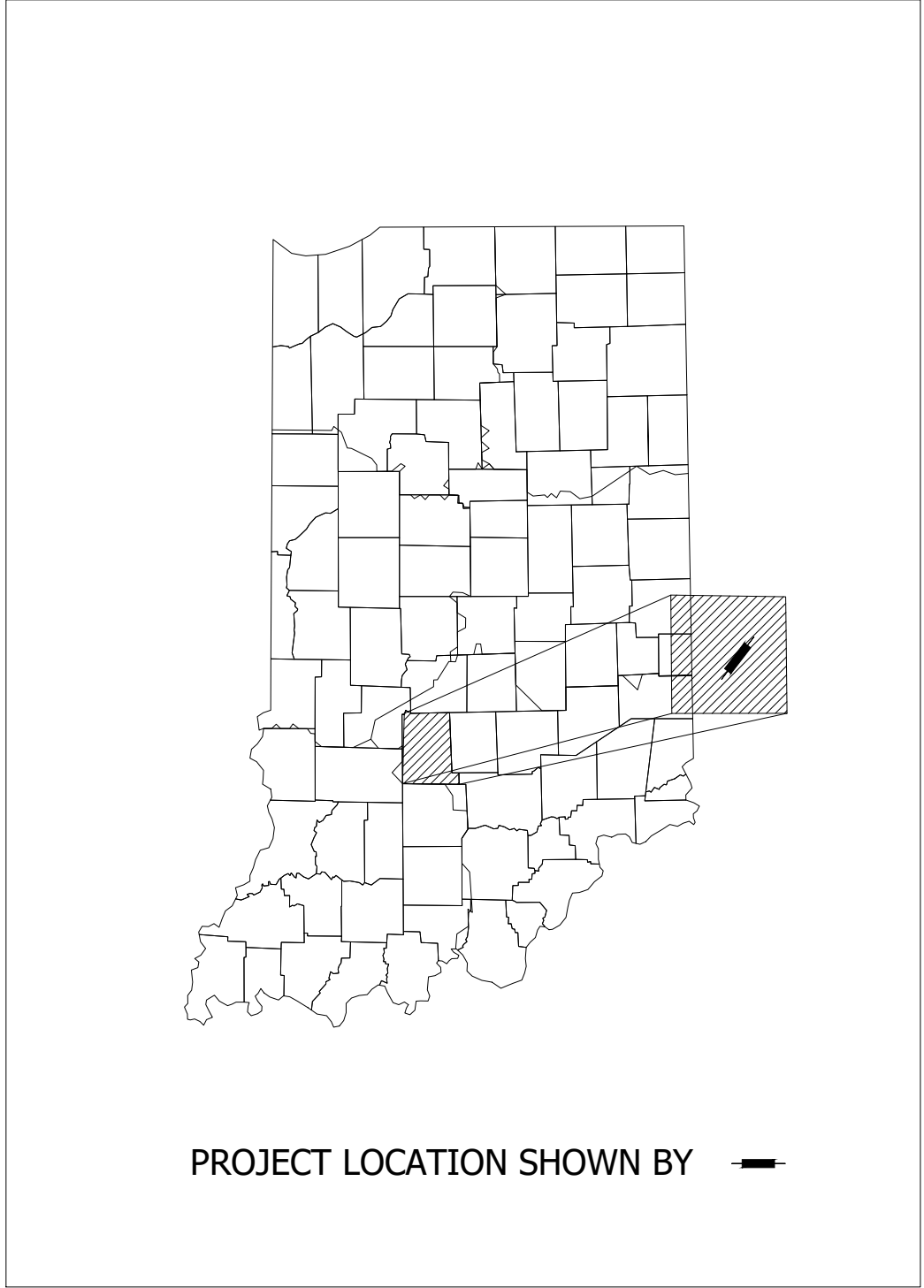
10TH STREET PEDESTRIAN IMPROVEMENT PROJECT
FROM SMITH ROAD TO DECKARD DRIVE
CITY OF BLOOMINGTON, MONROE COUNTY, INDIANA



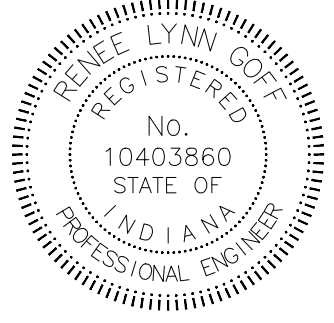
LOCATION MAP
MONROE COUNTY



TRAFFIC DATA		
A.A.D.T.	()	V.P.D.
A.A.D.T.	()	V.P.D.
D.H.V.	()	V.P.H.
DIRECTIONAL DISTRIBUTION		%
TRUCKS		% A.A.D.T.
		% D.H.V.
DESIGN DATA		
DESIGN SPEED		M.P.H.
PROJECT DESIGN CRITERIA		
FUNCTIONAL CLASSIFICATION		
RURAL/URBAN		
TERRAIN		
ACCESS CONTROL		



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 Brian Ball 10/6/2017 7:04 AM S:\PROJECT FILES\2016\16-0125\CADD\DESIGN\SHEET SETS\160125_SHT_TITLE.DWG



PLANS PREPARED BY: SHREWSBERRY AND ASSOCIATES 317.841.4799
PHONE NUMBER
CERTIFIED BY: *Renee Lynn Hoff* 08/30/17
DATE
APPROVED FOR LETTING: _____
INDIANA DEPARTMENT OF TRANSPORTATION DATE

DESIGNATION	
SURVEY BOOK	SHEETS
CONTRACT	1 of 18 PROJECT

UTILITIES

AT&T DISTRIBUTION
5858 N. COLLEGE AVE.
INDIANAPOLIS, IN 46220
TODD MOORE
(812) 334-4718
TM1925@ATT.COM

AT&T TRANSMISSION
301 WHALEY ST. RM403
LONGVIEW, TX 75601
LLOYD MAGOWN
(903) 753-3145
LMAGOWN@ATT.COM

CITY OF BLOOMINGTON UTILITIES
600 E. MILLER DR.
BLOOMINGTON, IN 47402
GREG NETTETON
(812) 349-3625

COMCAST CENTRAL (BLOOMINGTON)
1151 W. 2ND ST.
BLOOMINGTON, IN 47403
(812) 332-0131 x321

DUKE ENERGY
390 N MAIN ST.
MARTINSVILLE, IN 46151
DAWN MCDANIEL
(812) 385-1636
DAWN.MCDANIEL@DUKE-ENERGY.COM

DUKE ENERGY TELECOM
TOM JACKSON
(704) 382-3375
T.JACKSON@DUKE-ENERGY.COM

SMITHVILLE TELEPHONE COMPANY, INC
PO BOX 728
1600 W. TEMPERANCE ST.
ELLETSVILLE, IN 47429
JOE BRYNIARSKI
(812) 320-9317
JBRYNIARSKI@SMITHVILLE.COM

VECTREN - BLOOMINGTON
1 N. MAIN ST.
EVANSVILLE, IN 47711
JODY CHAPMAN
JWCHAPMAN@VECTREN.COM

GENERAL NOTES

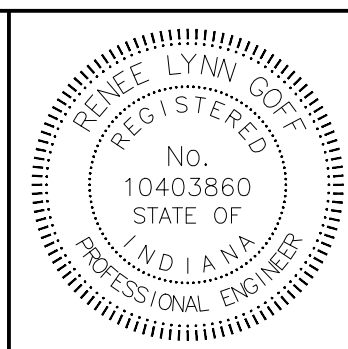
- 1. CONTRACTOR TO ADHERE TO THE LATEST SET OF INDOT STANDARDS AND SPECIFICATIONS.
- 2. SEE CURRENT INDOT STANDARD DRAWINGS FOR DETAILS.
- 3. CONTRACTOR TO COORDINATE WITH HOA FOR LOCATION OF EXISTING IRRIGATION LINES PRIOR TO CONSTRUCTION.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX
3	TYPICAL SECTIONS
4	TOPOGRAPHIC SURVEY
5	LOCATION CONTROL ROUTE SURVEY
6	EROSION CONTROL PLAN
7	MAINTENANCE OF TRAFFIC
8	MAINTENANCE OF TRAFFIC - SIGNAGE
9	STORM PLAN AND PROFILE
10	CONSTRUCTION DETAILS
11	SCHOOL FLASHER LAYOUT
12	SIGNAGE
13	CURB RAMP DETAILS
14	CURB RAMP DETAILS
15	STRUCTURE DATA TABLE
16	CROSS SECTIONS
17	CROSS SECTIONS
18	CROSS SECTIONS

REVISIONS

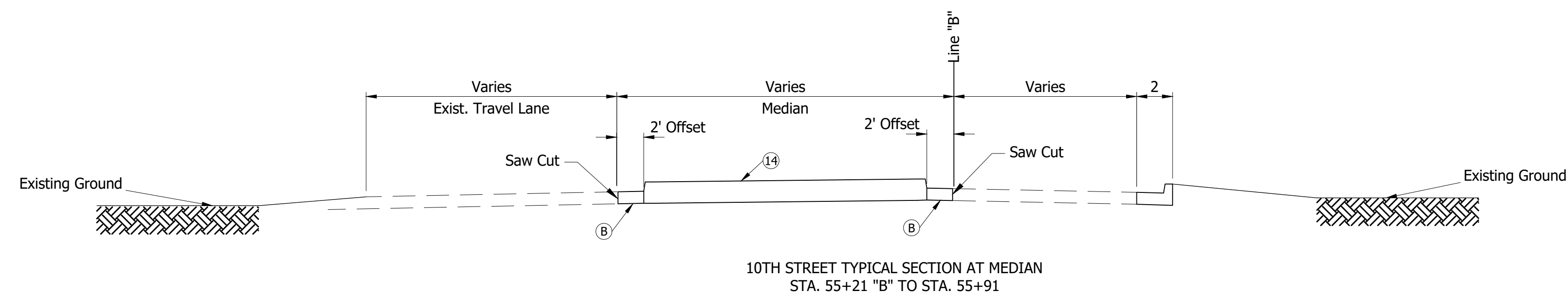
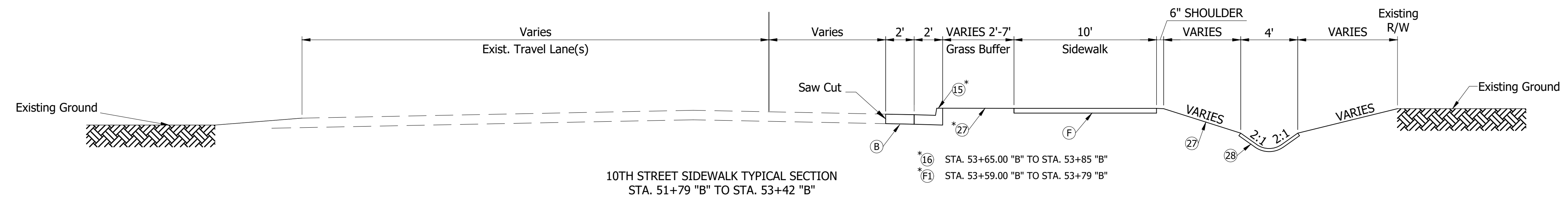
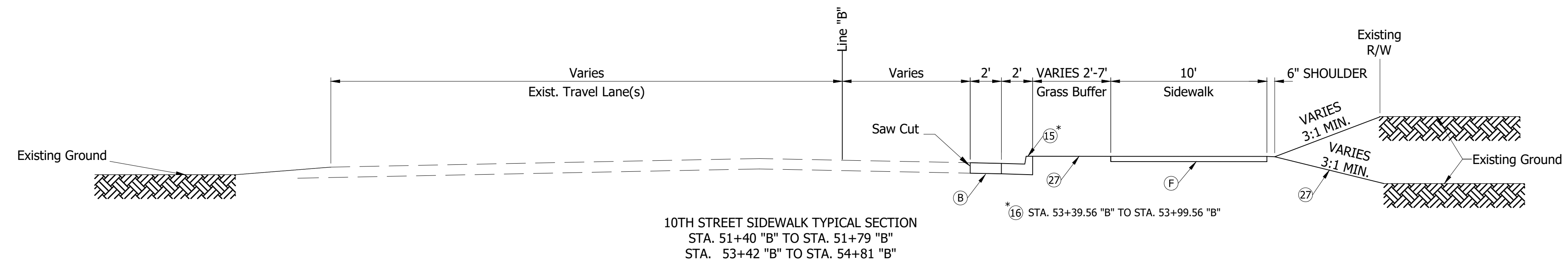
SHEET NO.	DATE	REVISED



RECOMMENDED FOR APPROVAL	<i>Renee Lynn Hoff</i> DESIGN ENGINEER	08/30/17 DATE
DESIGNED: BAB	DRAWN: BAB	
CHECKED: RLG	CHECKED: RLG	

CITY OF BLOOMINGTON 10TH STREET PEDESTRIAN IMPROVEMENTS
INDEX AND GENERAL NOTES

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 2 of 18
CONTRACT N/A	PROJECT

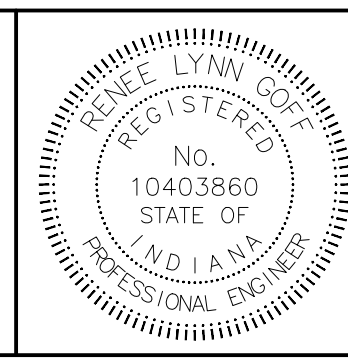


- A1) PCCP 4" ON 6" COMPACTED AGGREGATE, NO. 53, BASE
- B) 165lb/syd HMA Surface 9.5 mm., on 275lb/syd HMA Intermediate 19.0 mm, on 440lb/syd HMA Base 25.0 mm, on 330lb/syd HMA Base 19.0 mm
- D) HMA FOR APPROACHES
- F) CONCRETE SIDEWALK, 4" THICKNESS ON 4" COMPACTED AGGREGATE, NO. 53

- F1) CONCRETE SIDEWALK, 6" THICKNESS ON 4" COMPACTED AGGREGATE, NO. 53
- R) Mill and Resurface 1-1/2"
- QC/QA-HMA, 3, 64, SURFACE, 9.5 mm
- 14) CONCRETE CENTER CURB, TYPE D
- 15) CONCRETE CURB AND GUTTER (BARRIER)
- 16) CONCRETE CURB AND GUTTER (MOUNTABLE)
- 27) SOD

- 28) PAVED SIDE DITCH, TYPE B
- 38) TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE, 24 IN.
- 46) 4 IN. SOLID WHITE THERMOPLASTIC LINE
- 47) 4 IN. SOLID YELLOW THERMOPLASTIC LINE
- 48) 8 IN. SOLID YELLOW THERMOPLASTIC LINE
- 49) 12 IN. SOLID YELLOW THERMOPLASTIC LINE
- 50) 24 IN. SOLID WHITE THERMOPLASTIC LINE
- 51) PAVEMENT MESSAGE MARKING, THERMOPLASTIC, DIRECTIONAL ARROW

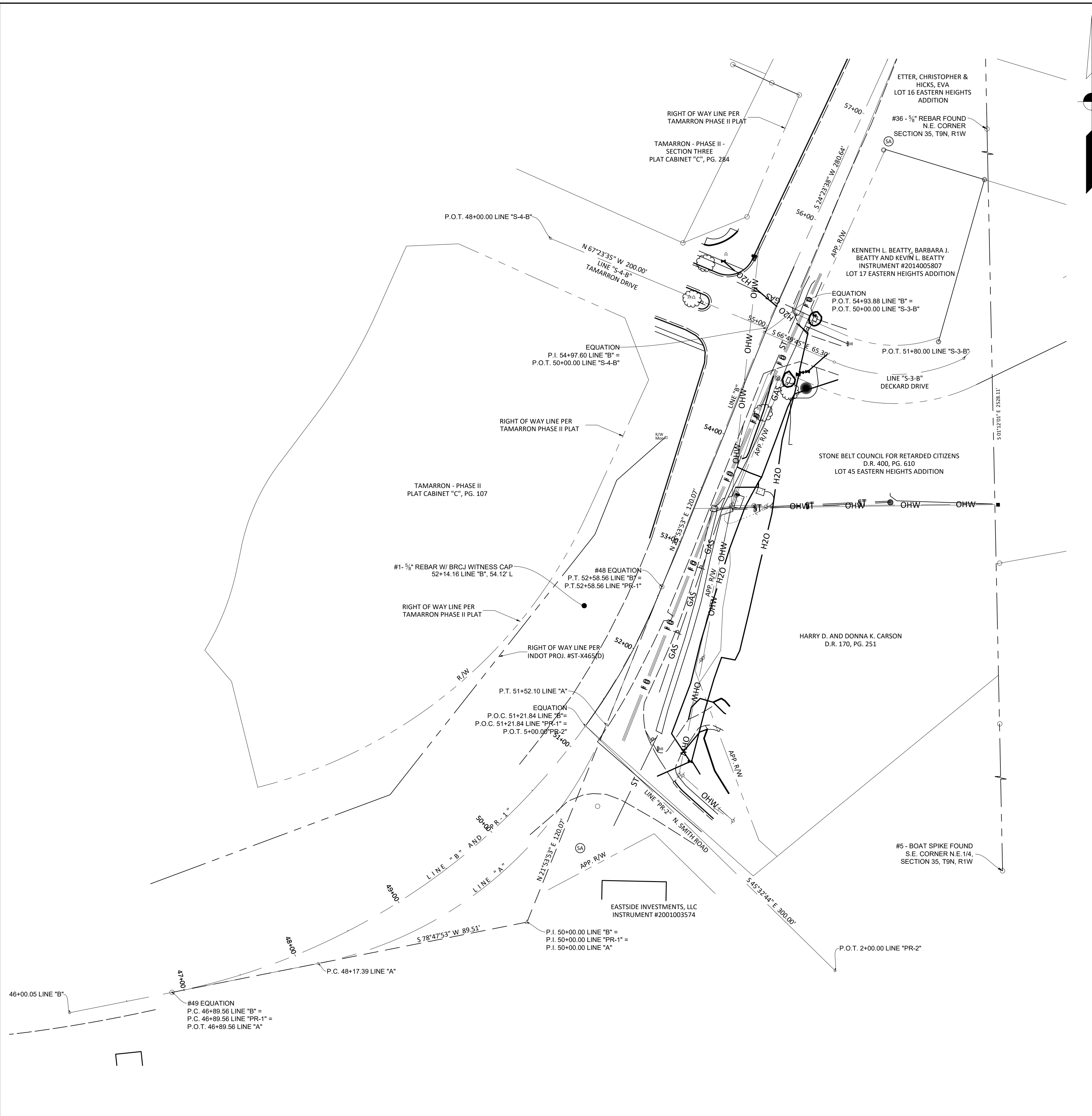
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RECOMMENDED FOR APPROVAL	<i>Renee Lynn Hoff</i>	DESIGN ENGINEER	08/30/17	DATE
DESIGNED:	BAB	DRAWN:	BAB	
CHECKED:	RLG	CHECKED:	RLG	

CITY OF BLOOMINGTON 10TH STREET PEDESTRIAN IMPROVEMENTS	
TYPICAL SECTIONS	

HORIZONTAL SCALE	BRIDGE FILE
1:5	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	3 of 18
CONTRACT	PROJECT
N/A	



ALIGNMENT MONUMENTS AND CALCULATED POINTS REFERENCED TO LINES B AND PR-1

Point#	Description	Station	Offset	Northing	Easting
1	5/8" REBAR W/ BRJ CAP	52+14.163	L54.122'	1430014.07000	3123043.54000
5	BOATSPIKE	50+91.574	R486.621'	1429583.25600	3123406.68300
48	FMON 1" PIN	52+58.336	L0.032'	1430030.37331	3123110.06719
49	FMON 1" PIN	46+89.560	L0.000'	1429682.21574	3122689.86925
50	5/8" REBAR W/ USI CAP	59+26.074	L17.750'	1430655.07585	3123338.11882
51	5/8" REBAR W/ USI CAP	50+75.747	R50.626'	1429841.93284	3123054.99784

HORIZONTAL DATUM BASED ON U.S. SURVEY FEET NAD83 INDIANA WEST ZONE

NOTE: COORDINATES PROVIDED TO 5 DECIMAL PLACES FOR CALCULATION PURPOSES, NOT AN INDICATION OF ACTUAL ACCURACY.

TEMPORARY BENCHMARKS

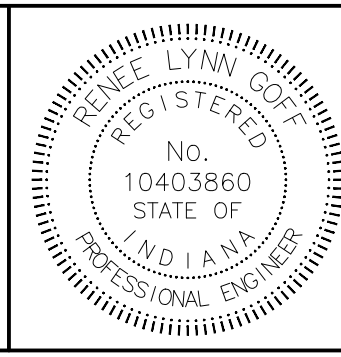
Point#	Elevation	Station	Offset	Northing	Easting
TBM1	835.43	55+24.758	R33.592'	1430263.222	3123241.141
TBM2	821.86	53+55.941	R30.863'	1430109.414	3123175.136
TBM3	833.54	55+49.572	L35.082'	1430314.184	3123188.847
#1	819.65	52+14.163	L54.122'	1430014.070	3123043.540

VERTICAL DATUM BASED ON NAVD88 (PER OPUS OBSERVATION ON POINT #1)

NOTES
THIS TOPOGRAPHIC SURVEY WAS PERFORMED WHILE MILLING AND SURFACING WERE BEING COMPLETED ALONG STATE ROAD 45 AND NORTH SMITH RD.

LEGEND:

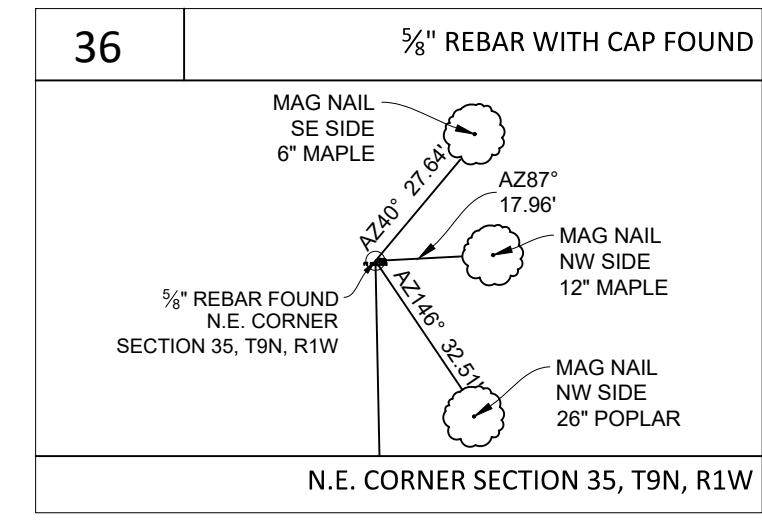
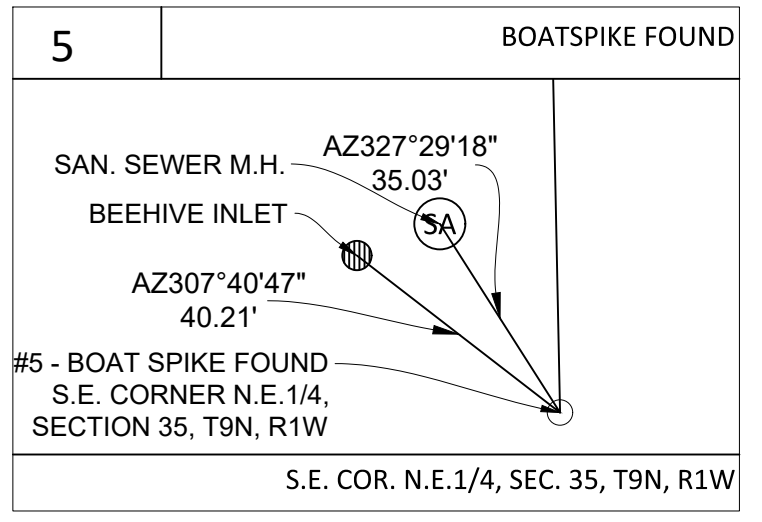
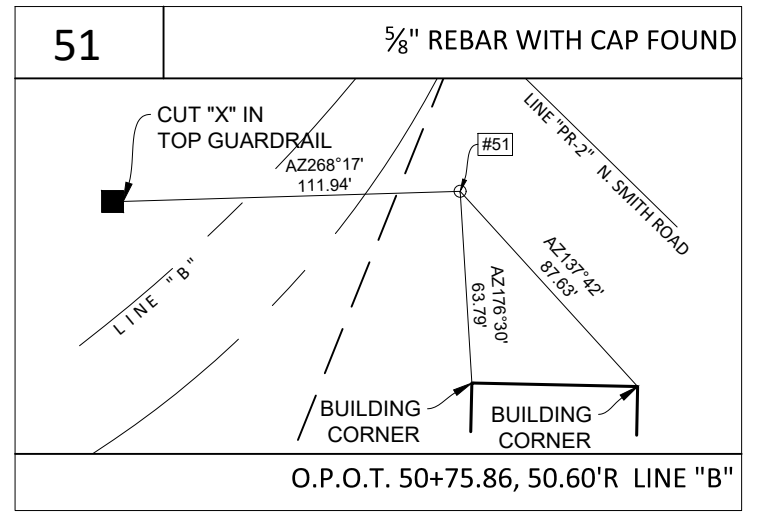
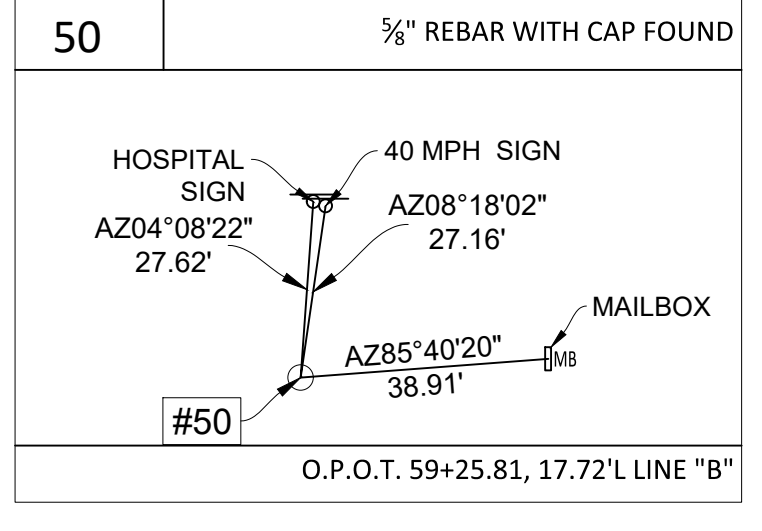
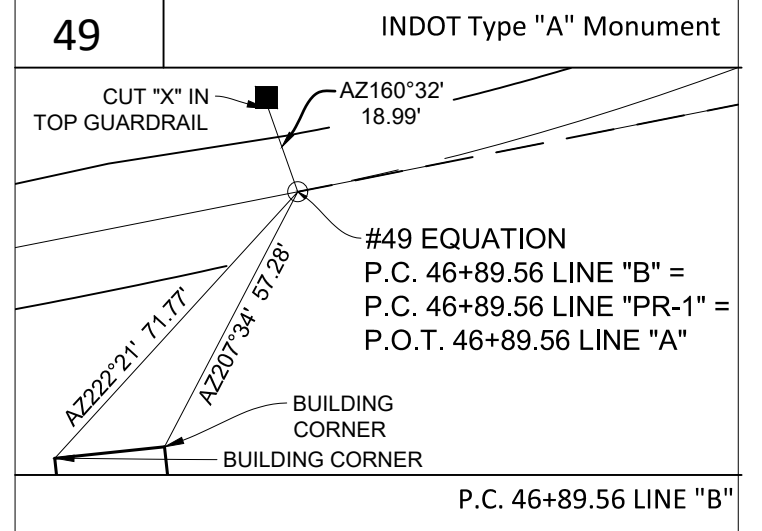
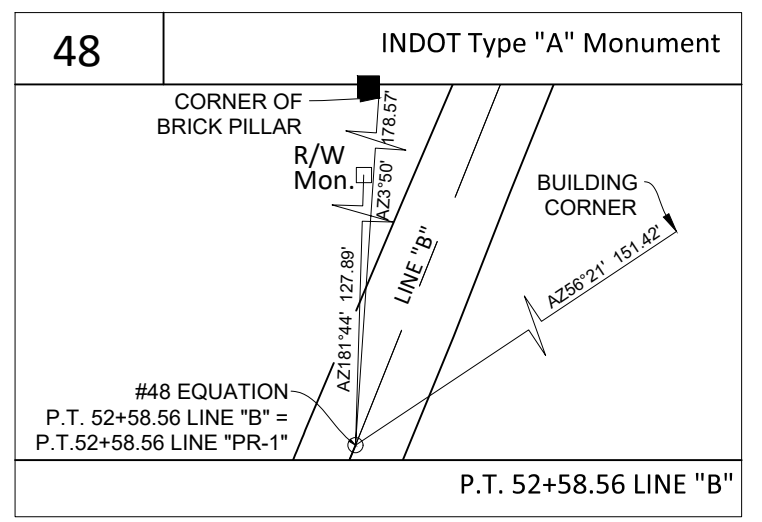
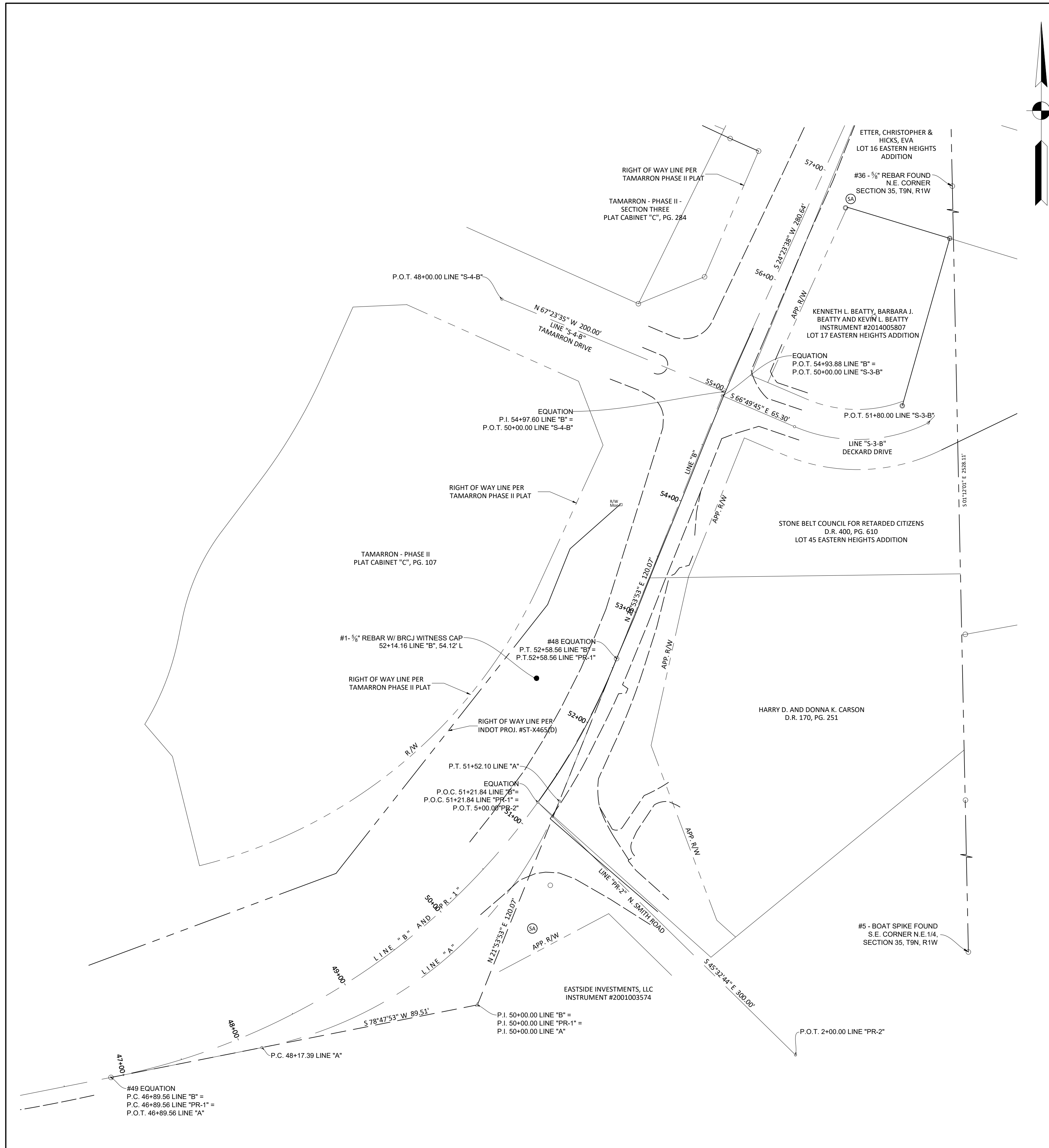
- | | | |
|--------------------------|------------------------|-----------------------------|
| ▲ YARD LIGHT | —x—x— FENCE | ⊙ FD AXLE |
| ⊙ LIGHT POLE | —○—○— GUARDRAIL | ⊙ FD BRASS DISK |
| ⊙ SIGNAL POLE | —OH— OVERHEAD WIRES | ⊙ FD COT' GIN SPDL |
| ⊙ UTILITY POLE | —UG— UNDER ELEC. | ⊙ FD CHISELED X |
| — GW— GUY WIRE | —GS— GAS LINE | ⊙ SET CHISELED X |
| — SW— STORM SEWER LINE | — SAN— SAN SEWER LINE | ⊙ SET DRILL HOLE |
| — UT— UNDER TELEPHONE | — ST— STORM SEWER LINE | ⊙ FD HARRISON MON. |
| — W— EXISTING WATER LINE | — HT— HUB/TACK | ⊙ SET HARRISON MON. |
| — C— CHILLED WATER LINE | — R— REBAR | ⊙ SET HUB/TACK |
| ⊙ ELECTRIC MH | ⊙ SIGN | ⊙ SET REBAR |
| ⊙ MANHOLE | ⊙ R.O.W. MON. | ⊙ FD MAG NAIL |
| ⊙ PHONE MH | ⊙ MONITORING WELL | ⊙ SET MAG NAIL |
| ⊙ SANITARY MH | ⊙ BOLLARD | ⊙ FD NAIL |
| ⊙ SIGNAL MH | ⊙ BORE HOLE | ⊙ SET NAIL |
| ⊙ STEAM MH | ⊙ DOWNSPOUT | ⊙ FD PIPE |
| ⊙ STORM MH | ⊙ GATE POST | ⊙ FD RR SPIKE |
| ⊙ WATER MH | ⊙ PARKING METER | ⊙ SET RR SPIKE |
| ⊙ ELEC. METER | ⊙ SPICOT | ⊙ FD STONE |
| ⊙ CLEANOUT | ⊙ T-POST | ⊙ RECORDED B&D |
| ⊙ GAS METER | ⊙ WOOD POST | ⊙ MEASURED B&D |
| ⊙ GAS VALVE | ⊙ PARKING SPACES | ⊙ CALCULATED B&D |
| ⊙ WATER VALVE | ⊙ TRANSFORMER | ⊙ (PROP) PROPORTIONAL DIST. |
| ⊙ FIRE HYDRANT | ⊙ PHONE VAULT | ⊙ A.G. ABOVE GROUND |
| ⊙ SPR. HOODUP | ⊙ STEAM VAULT | ⊙ B.G. BELOW GROUND |
| ⊙ SPRINKLER | ⊙ VALVE VAULT | ⊙ CONF. TREE |
| | ⊙ AC UNIT | ⊙ SHRUB |
| | ⊙ PHONE BOOTH | ⊙ PHONE RISER-BOX |
| | ⊙ BIRD FEEDER | ⊙ TV RISER-BOX |
| | ⊙ MAILBOX | ⊙ ELEC. RISER-BOX |
| | ⊙ PROP. TANK | ⊙ GAS RISER-BOX |
| | ⊙ PARKING BLOCK | |
| | ⊙ POST | |
| | | ⊙ TBM |
| | | ⊙ TEMPORARY BENCHMARK |



RECOMMENDED FOR APPROVAL	<i>Denise Lynn Hoff</i>	DESIGN ENGINEER	08/30/17	DATE
DESIGNED:	BAB	DRAWN:	BAB	
CHECKED:	RLG	CHECKED:	RLG	

CITY OF BLOOMINGTON	
10TH STREET PEDESTRIAN IMPROVEMENTS	
TOPOGRAPHIC SURVEY	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	4 of 18
CONTRACT	PROJECT
N/A	



SURVEYOR'S REPORT

BRCJ Project No.: 9165
 Project: 10th Street and Smith Road Sidewalk Extension.
 Client: City of Bloomington, Indiana

The project is located in Section 35, Township 9 North, Range 1 West, Monroe County, Indiana.

The scope of work for this project was to produce a Location Control Route Survey Plat. Control for this project was established by static GPS observations on random control points and United States Public Land System corners. The Horizontal Datum for this project is NAD83(2011) EPOCH 2010.000. The Vertical Datum for this project is NAVD88. The combined scale factor for this project was determined to be negligible for the project. The bearings, distances, and coordinates shown herein are based on grid measurements in U.S. Survey Feet.

In accordance with Title 865, Rule 12 of the Indiana Administrative Code, the following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established on this survey as a result of:
 -The relative positional accuracy of the measurement.
 -Availability and condition of reference monuments.
 -Clarity or ambiguity of the record description used and of adjoining descriptions and the relationship of the lines of the subject tract with adjoining lines.
 -Occupation or possession lines. (There may be unwritten rights associated with any lines of possession.)

Subject Property Information:
 The subject properties are along the north & south R/W of 10th Street (SR45) from Smith Road northerly to Tamarrron Drive.

Positional Accuracy:
 The Relative Positional Accuracy in the location of points shown on this survey are within that allowable for an Urban Survey (0.07 feet, plus 50 ppm) as defined by Title 865, Rule 12 of the Indiana Administrative Code.

Surveys Consulted:
 The following surveys were consulted in establishing the lines and corners of this survey.
 The Final Plat of Tamarrron Phase II as recorded in Plat Cabinet "C", Page 107 in the Monroe County Recorder's Office.
 The Final Plat of Tamarrron Phase II, Section Three as recorded in Plat Cabinet "C", Page 284 in the Monroe County Recorder's Office.
 The Final Plat of Eastern Heights Addition as recorded in Plat Book 4, Page 75-B(Plat Cabinet "B", Page 84) in the Monroe County Recorder's Office.

Monuments Found or Set:
 NE COR., SEC. 35; 5/8" Rebar w/USI cap fd flush. Held as found.
 SE COR., NE/4 SEC 35; Boatspike fd. flush. Held as found.
 5/8" Rebars with USI caps were found along the route, as shown hereon. These monuments are called for as set in a previous Location Control Route Survey performed by USI Consultants, Inc., certified by Ryan C. Swingley on August 08, 2008. The monuments were all held as found.

Establishment of Alignments:
 Point numbers 48, 49, 50 and 51 were held to establish the centerline of PR-1 and Line A per above referenced USI Survey and INDOT Project ST-X465(D), dated 1997.
 R/W lines were established by the referenced plats, INDOT Plans, the referenced Route Survey and deeds.

ALIGNMENT MONUMENTS AND CALCULATED POINTS REFERENCED TO LINES B AND PR-1

Point#	Description	Station	Offset	Northing	Easting
1	5/8" REBAR W/ BRCJ CAP	52+14.163	L54.122'	1430014.07000	3123043.54000
5	BOATSPIKE	50+91.574	R486.621'	1429583.25600	3123406.68300
48	FMON 1" PIN	52+58.336	L0.000'	1430030.37331	3123110.06719
49	FMON 1" PIN	46+89.560	L0.000'	1429682.21574	3122689.86925
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51	5/8" REBAR W/ USI CAP	50+75.747	R50.626'	1429841.93284	3123054.99784

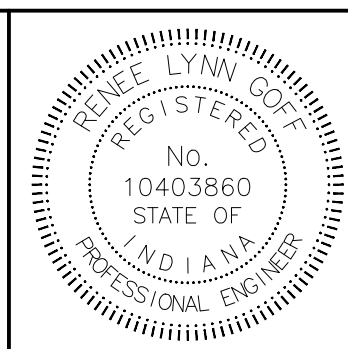
HORIZONTAL DATUM BASED ON U.S. SURVEY FEET NAD83 INDIANA WEST ZONE

NOTE: COORDINATES PROVIDED TO 5 DECIMAL PLACES FOR CALCULATION PURPOSES, NOT AN INDICATION OF ACTUAL ACCURACY.

INVERSE REPORT OF S.R. 45 - "B" AND "PR-1" ALIGNMENTS ESTABLISHED THIS SURVEY

Station	Northing	Easting	Bearing	Distance	Radius Length	PI Station	Tangent	Arc Length	Delta Angle	Degree of Curve	Chord Length	Chord Bearing
46+00.05000	1429664.82685	3122602.06455										
46+89.56000	1429682.21574	3122689.86925	N 78°47'53" E	89.51000'								
52+58.56000	1430030.56959	3123110.18042			572.95780'	50+00.00361	310.44361'	569.00000'	56°54'00"	10°00'00"	545.90464'	N 50°20'53" E
54+97.60000	1430252.36258	3123199.33192	N 21°53'53" E	239.04000'								
57+78.24000	1430507.94892	3123315.23890	N 24°23'38" E	280.64000'								
60+75.99000	1430794.61000	3123395.74041	N 15°41'10" E	297.75000'								

SURVEY BY:
 BLEDSOE RIGGERT COOPER JAMES
 1351 West Tapp Road Bloomington, Indiana 47403
 Phone: 812-336-8277 Email: callen@brgcivil.com



RECOMMENDED FOR APPROVAL: *Renee Lynn Huff* 08/30/17 DATE
 DESIGN ENGINEER

DESIGNED: _____ BAB DRAWN: _____ BAB
 CHECKED: _____ RLG CHECKED: _____ RLG

CITY OF BLOOMINGTON
 10TH STREET PEDESTRIAN IMPROVEMENTS

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	5 of 18
CONTRACT	PROJECT
N/A	

51

52

53

54

55

56

57

S35 T9N R1W
BLOOMINGTON TWP.
MONROE COUNTY

TAMARRON - PHASE II
PLAT CABINET "C", PG. 107

TAMARRON - PHASE II - SECTION THREE
PLAT CABINET "C", PG. 284

BEGIN PROJECT P.O.C. Sta. 51+21.84 "B" =
P.O.T. Sta. 5+00.00 "PR-2"

P.T. Sta. 52+58.56 "B"

P.O.T. Sta. 54+97.60 "B" =
P.O.T. Sta. 50+00.00 "S-4-B"
P.I. Sta. 54+97.60 "B"
No Curve Run
P.O.T. Sta. 54+93.88 "B" =
P.O.T. Sta. 50+00.00 "S-3-B"

P.I. Sta. 54+97.60 "B" =
P.O.T. Sta. 50+00.00 "S-4-B"

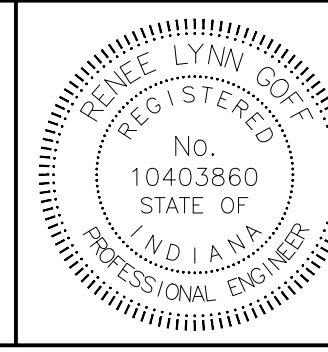
KENNETH L. BEATTY, BARBARA J. BEATTY AND KEVIN
L. BEATTY
INSTRUMENT #2014005807
LOT 17 EASTERN HEIGHTS ADDITION

STONE BELT COUNCIL FOR RETARDED
CITIZENS
D.R. 400, PG. 610
LOT 45 EASTERN HEIGHTS ADDITION

a. 50+65.30 "S-3-B"

NOTE:
ALL STATIONING REFERENCED TO Line "B" UNLESS OTHERWISE NOTED

- (SF) SILT FENCE - SEE INDOT STANDARD
DRAWING E 205-TECP-02
- (CD) TEMPORARY CHECK DAM - SEE INDOT
STANDARD DRAWING E 205-TECD-02

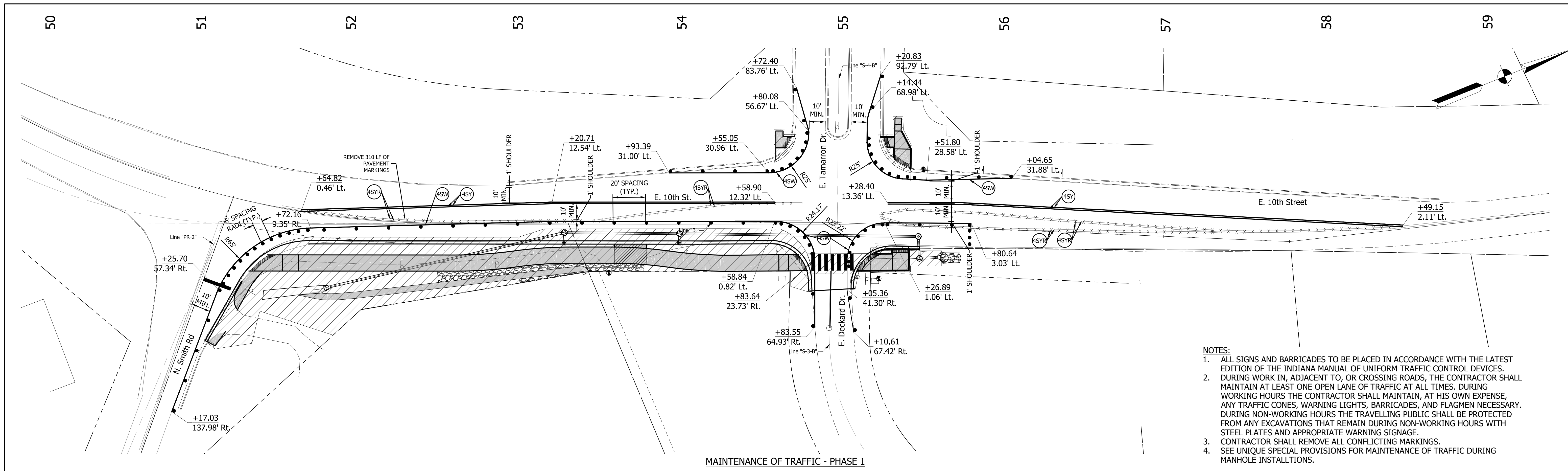


RECOMMENDED FOR APPROVAL	<i>Renee Lynn Hoff</i>	DESIGN ENGINEER	08/30/17	DATE
DESIGNED:	BAB	DRAWN:	BAB	
CHECKED:	RLG	CHECKED:	RLG	

CITY OF BLOOMINGTON
10TH STREET PEDESTRIAN IMPROVEMENTS

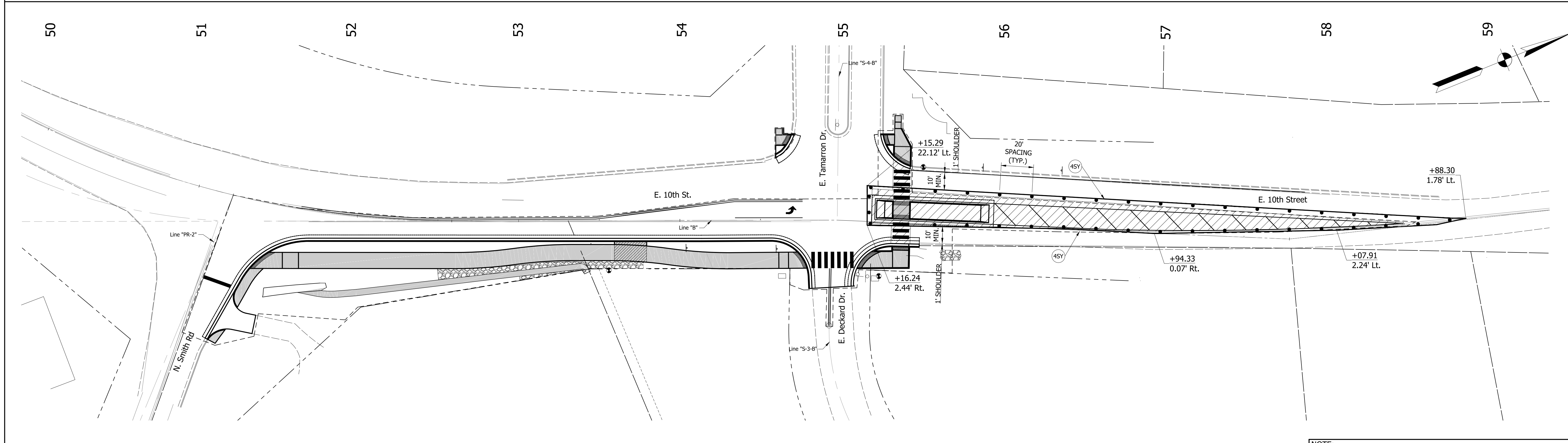
EROSION CONTROL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	6 of 18
CONTRACT	PROJECT
N/A	



MAINTENANCE OF TRAFFIC - PHASE 1

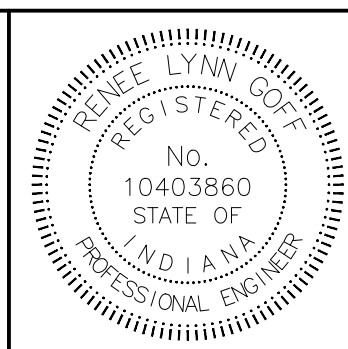
- NOTES:
1. ALL SIGNS AND BARRICADES TO BE PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. DURING WORK IN, ADJACENT TO, OR CROSSING ROADS, THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE OPEN LANE OF TRAFFIC AT ALL TIMES. DURING WORKING HOURS THE CONTRACTOR SHALL MAINTAIN, AT HIS OWN EXPENSE, ANY TRAFFIC CONES, WARNING LIGHTS, BARRICADES, AND FLAGMEN NECESSARY. DURING NON-WORKING HOURS THE TRAVELLING PUBLIC SHALL BE PROTECTED FROM ANY EXCAVATIONS THAT REMAIN DURING NON-WORKING HOURS WITH STEEL PLATES AND APPROPRIATE WARNING SIGNAGE.
 2. CONTRACTOR SHALL REMOVE ALL CONFLICTING MARKINGS.
 3. SEE UNIQUE SPECIAL PROVISIONS FOR MAINTENANCE OF TRAFFIC DURING MANHOLE INSTALLATIONS.



MAINTENANCE OF TRAFFIC - PHASE 2

NOTE:
ALL STATIONING REFERENCED TO Line "B" UNLESS OTHERWISE NOTED

- (4SW) TEMPORARY PAVEMENT MARKING, WHITE, 4"
- (4SY) TEMPORARY PAVEMENT MARKING, YELLOW, 4"
- (4SYR) PAVEMENT MARKING, YELLOW, 4", REMOVE
- STANDARD DRUM
- ▨ WORK AREA

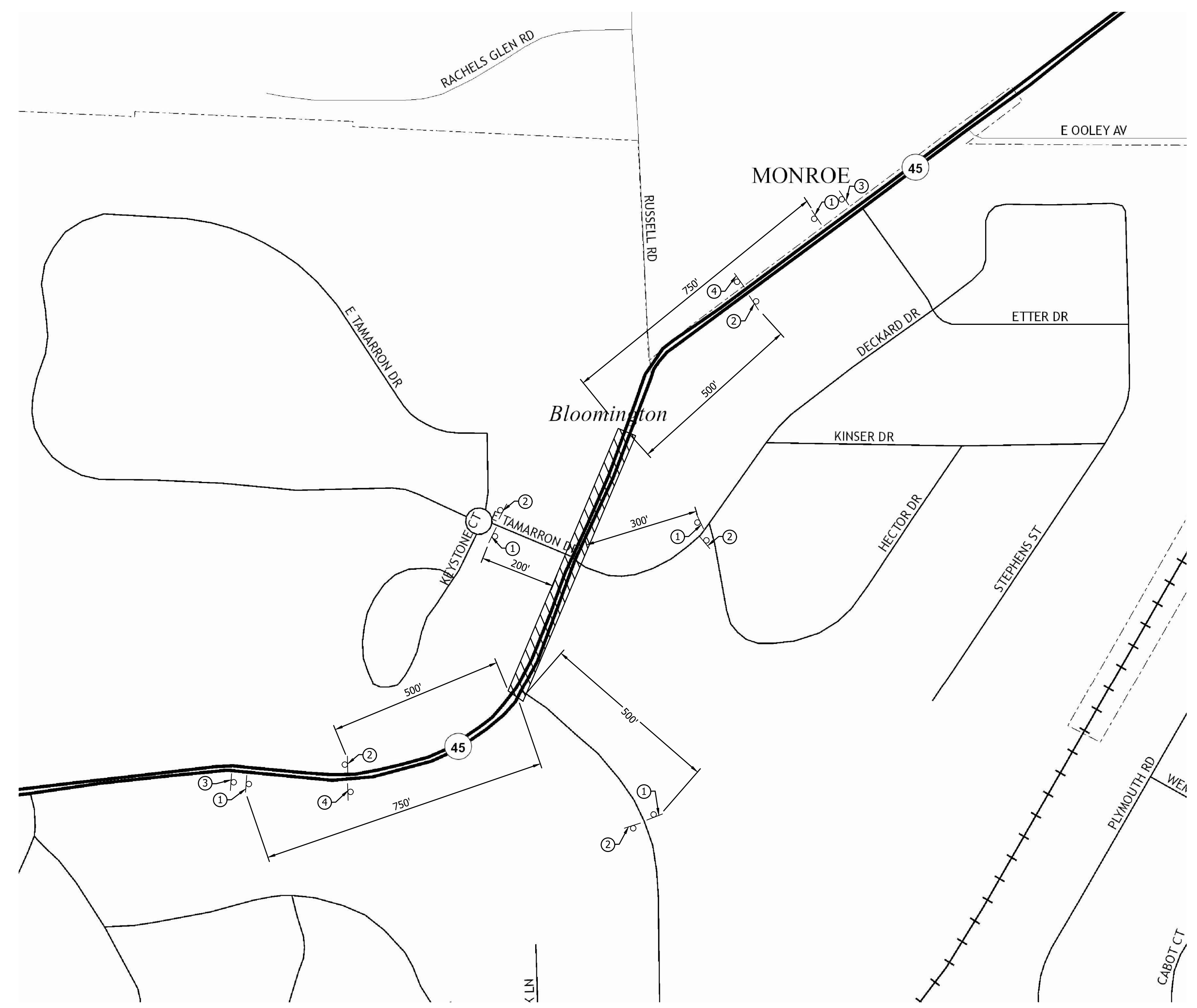
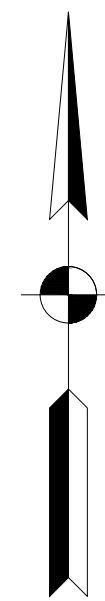



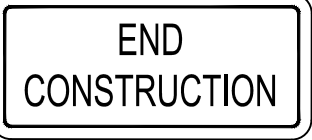
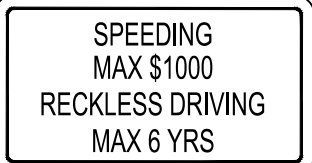

RECOMMENDED FOR APPROVAL	<i>Renee Lynn Hoff</i>	DESIGN ENGINEER	08/30/17	DATE
DESIGNED:	BAB	DRAWN:	BAB	
CHECKED:	RLG	CHECKED:	RLG	

CITY OF BLOOMINGTON
10TH STREET PEDESTRIAN IMPROVEMENTS

MAINTENANCE OF TRAFFIC


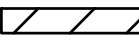
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1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
N/A	7 of 18
CONTRACT	PROJECT
N/A	

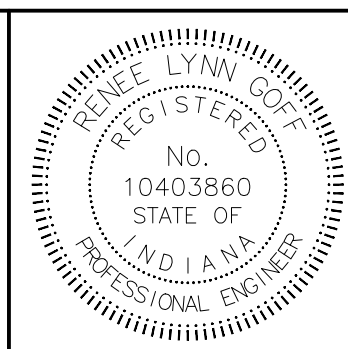


- ①  XW20-1
36"x36"
- ②  XG20-2
60"x24"
- ③  XW2-6-A
78"x42"
- ④  XW5-1
36"x36"

MAINTENANCE OF TRAFFIC - SIGNAGE

LEGEND:

	CONSTRUCTION SIGN
①	TRAFFIC SIGN CALLOUT
	WORK ZONE

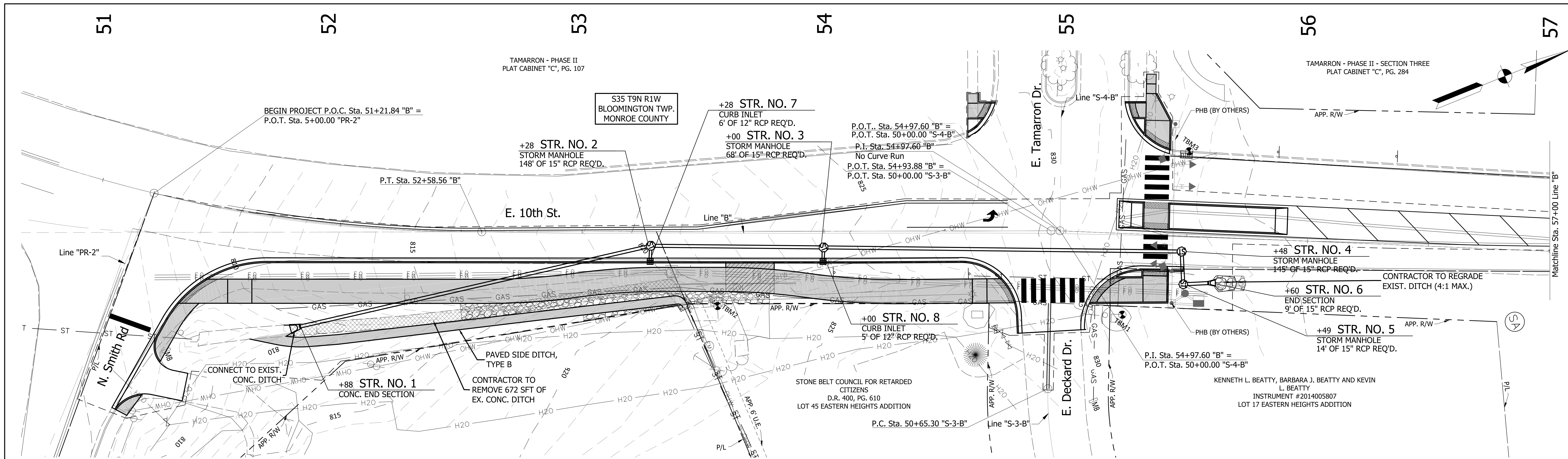


RECOMMENDED FOR APPROVAL	<i>Renee Lynn Hoff</i> DESIGN ENGINEER	08/30/17 DATE
DESIGNED:	BAB	DRAWN:
		BAB
CHECKED:	RLG	CHECKED:
		RLG

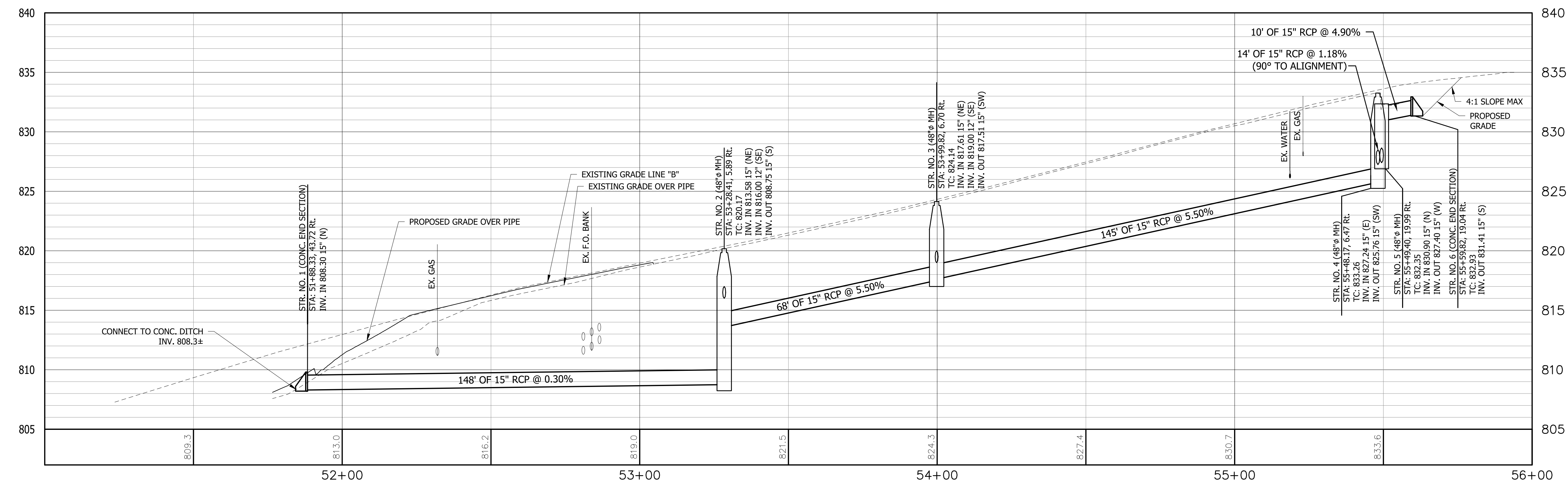
CITY OF BLOOMINGTON 10TH STREET PEDESTRIAN IMPROVEMENTS	
MAINTENANCE OF TRAFFIC - SIGNAGE	

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1" = 200'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	8 of 18
CONTRACT	PROJECT
N/A	

None

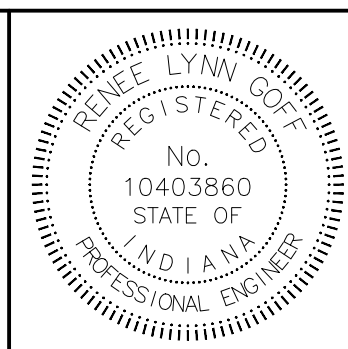


NOTE:
STRUCTURE BACKFILL TYPE 4 REQUIRED WHERE PIPE IS UNDER AND WITHIN 5' OF PAVEMENT. REFER TO INDOT SPECIFICATIONS.



- SHEET NOTES:**
1. CONTRACTOR TO ADHERE TO THE CURRENT SET OF INDOT STANDARDS AND SPECIFICATIONS.
 2. SEE CURRENT INDOT STANDARD DRAWINGS FOR DETAILS.
 3. CONTRACTOR TO COORDINATE WITH HOA FOR LOCATION OF EXISTING IRRIGATION LINES PRIOR TO CONSTRUCTION.

NOTE:
ALL STATIONING REFERENCED TO Line "B" UNLESS OTHERWISE NOTED

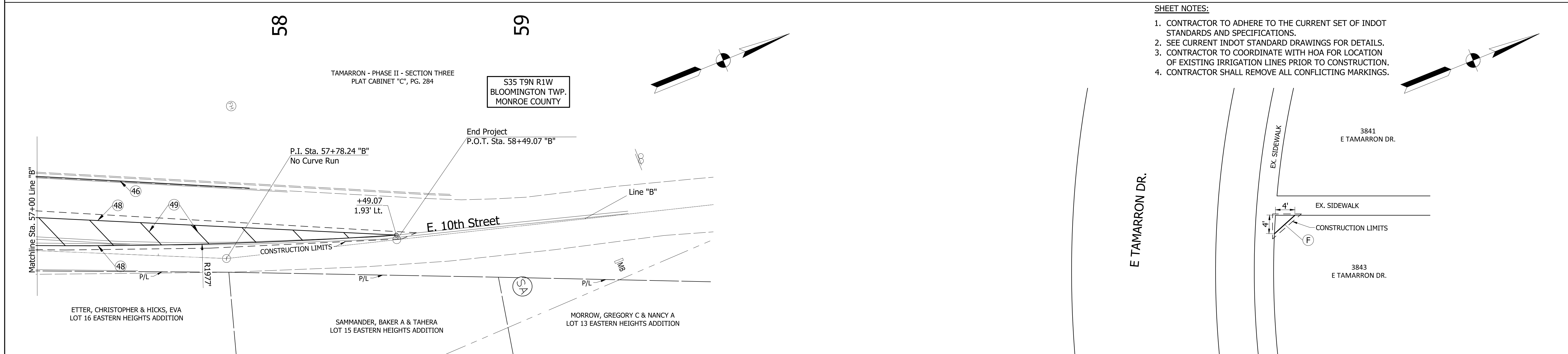
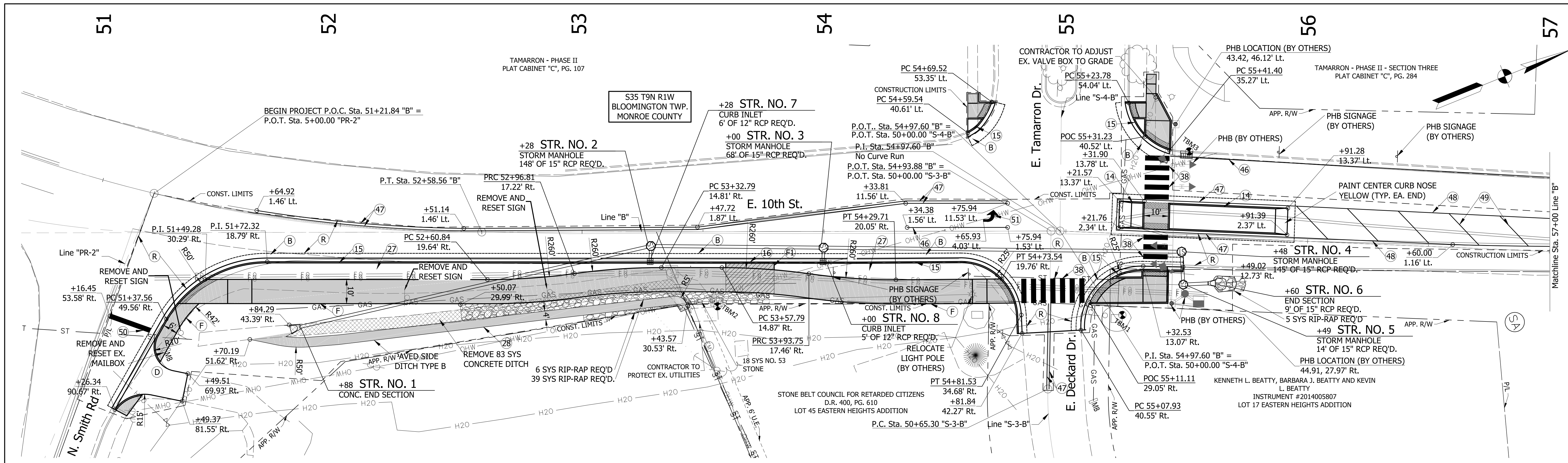


RECOMMENDED FOR APPROVAL	<i>Renee Lynn Hoff</i>	DESIGN ENGINEER	08/30/17	DATE
DESIGNED:	BAB	DRAWN:	BAB	
CHECKED:	RLG	CHECKED:	RLG	

CITY OF BLOOMINGTON
10TH STREET PEDESTRIAN IMPROVEMENTS

STORM PLAN AND PROFILE

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
N/A	9 of 18
CONTRACT	PROJECT
N/A	



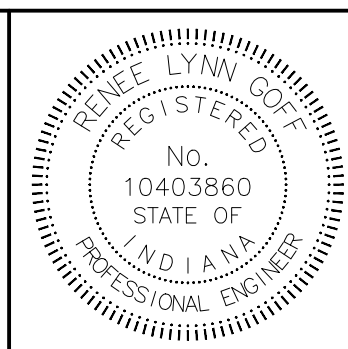
- SHEET NOTES:**
1. CONTRACTOR TO ADHERE TO THE CURRENT SET OF INDOT STANDARDS AND SPECIFICATIONS.
 2. SEE CURRENT INDOT STANDARD DRAWINGS FOR DETAILS.
 3. CONTRACTOR TO COORDINATE WITH HOA FOR LOCATION OF EXISTING IRRIGATION LINES PRIOR TO CONSTRUCTION.
 4. CONTRACTOR SHALL REMOVE ALL CONFLICTING MARKINGS.

- | | | |
|--|---|---|
| (A) PCCP 4" ON 6" COMPACTED AGGREGATE, NO. 53, BASE | (F) CONCRETE SIDEWALK, 6" THICKNESS ON 4" COMPACTED AGGREGATE, NO. 53 | (28) PAVED SIDE DITCH, TYPE B |
| (B) 165lb/syd HMA Surface 9.5 mm., on 275lb/syd HMA Intermediate 19.0 mm, on 440lb/syd HMA Base 25.0 mm, on 330lb/syd HMA Base 19.0 mm | (R) Mill and Resurface 1-1/2" QC/QA-HMA, 3, 64, SURFACE, 9.5 mm | (38) TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE, WHITE, 24 IN. |
| (D) HMA FOR APPROACHES | (14) CONCRETE CENTER CURB, TYPE D | (46) 4 IN. SOLID WHITE THERMOPLASTIC LINE |
| (F) CONCRETE SIDEWALK, 4" THICKNESS ON 4" COMPACTED AGGREGATE, NO. 53 | (15) CONCRETE CURB AND GUTTER (BARRIER) | (47) 4 IN. SOLID YELLOW THERMOPLASTIC LINE |
| | (16) CONCRETE CURB AND GUTTER (MOUNTABLE) | (48) 8 IN. SOLID YELLOW THERMOPLASTIC LINE |
| | (27) SOD | (49) 12 IN. SOLID YELLOW THERMOPLASTIC LINE |
| | | (50) 24 IN. SOLID WHITE THERMOPLASTIC LINE |
| | | (51) PAVEMENT MESSAGE MARKING, THERMOPLASTIC, DIRECTIONAL ARROW |

INCIDENTAL CONSTRUCTION ON E. TAMARRON DR.
SCALE: 1" = 10'

NOTE:
ALL STATIONING REFERENCED TO Line "B" UNLESS OTHERWISE NOTED

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RECOMMENDED FOR APPROVAL	<i>Denise Lynn Hoff</i>	DESIGN ENGINEER	08/30/17	DATE
DESIGNED:	BAB	DRAWN:	BAB	
CHECKED:	RLG	CHECKED:	RLG	

CITY OF BLOOMINGTON 10TH STREET PEDESTRIAN IMPROVEMENTS	
CONSTRUCTION DETAILS	

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	10 of 18
CONTRACT	PROJECT
N/A	

PEDESTAL MOUNTED SOLAR POWERED SCHOOL SPEED LIMIT FLASHING BEACON ASSEMBLY:

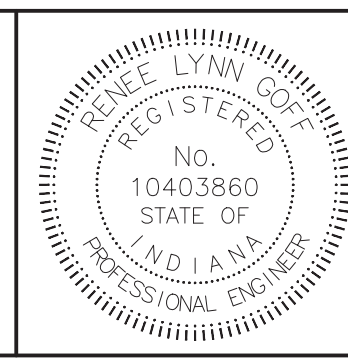
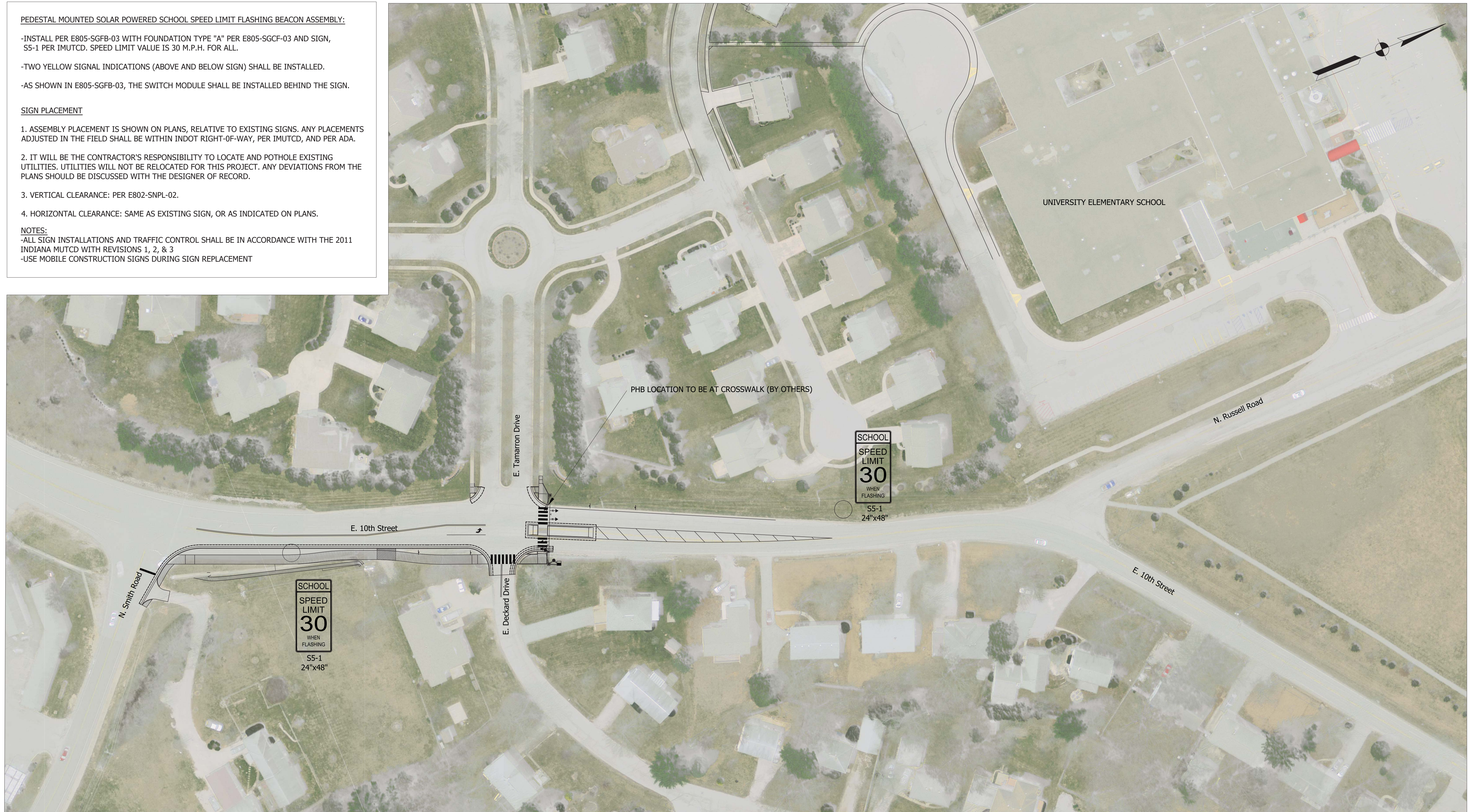
- INSTALL PER E805-SGFB-03 WITH FOUNDATION TYPE "A" PER E805-SGCF-03 AND SIGN, S5-1 PER IMUTCD. SPEED LIMIT VALUE IS 30 M.P.H. FOR ALL.
- TWO YELLOW SIGNAL INDICATIONS (ABOVE AND BELOW SIGN) SHALL BE INSTALLED.
- AS SHOWN IN E805-SGFB-03, THE SWITCH MODULE SHALL BE INSTALLED BEHIND THE SIGN.

SIGN PLACEMENT

1. ASSEMBLY PLACEMENT IS SHOWN ON PLANS, RELATIVE TO EXISTING SIGNS. ANY PLACEMENTS ADJUSTED IN THE FIELD SHALL BE WITHIN INDOT RIGHT-OF-WAY, PER IMUTCD, AND PER ADA.
2. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND POTHOLE EXISTING UTILITIES. UTILITIES WILL NOT BE RELOCATED FOR THIS PROJECT. ANY DEVIATIONS FROM THE PLANS SHOULD BE DISCUSSED WITH THE DESIGNER OF RECORD.
3. VERTICAL CLEARANCE: PER E802-SNPL-02.
4. HORIZONTAL CLEARANCE: SAME AS EXISTING SIGN, OR AS INDICATED ON PLANS.

NOTES:

- ALL SIGN INSTALLATIONS AND TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE 2011 INDIANA MUTCD WITH REVISIONS 1, 2, & 3
- USE MOBILE CONSTRUCTION SIGNS DURING SIGN REPLACEMENT

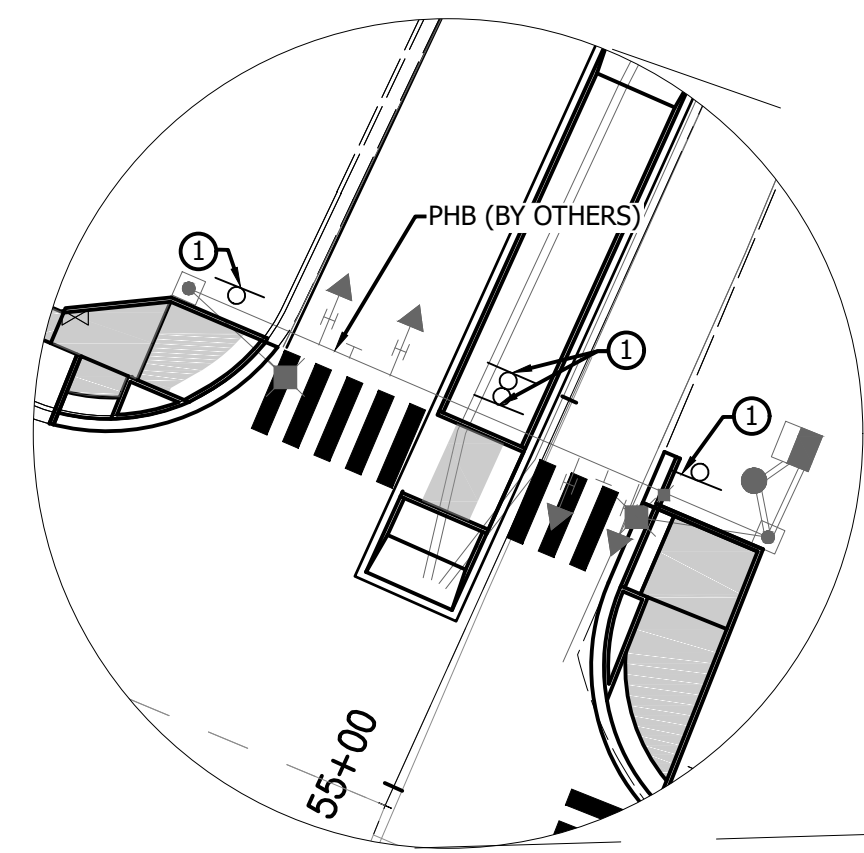
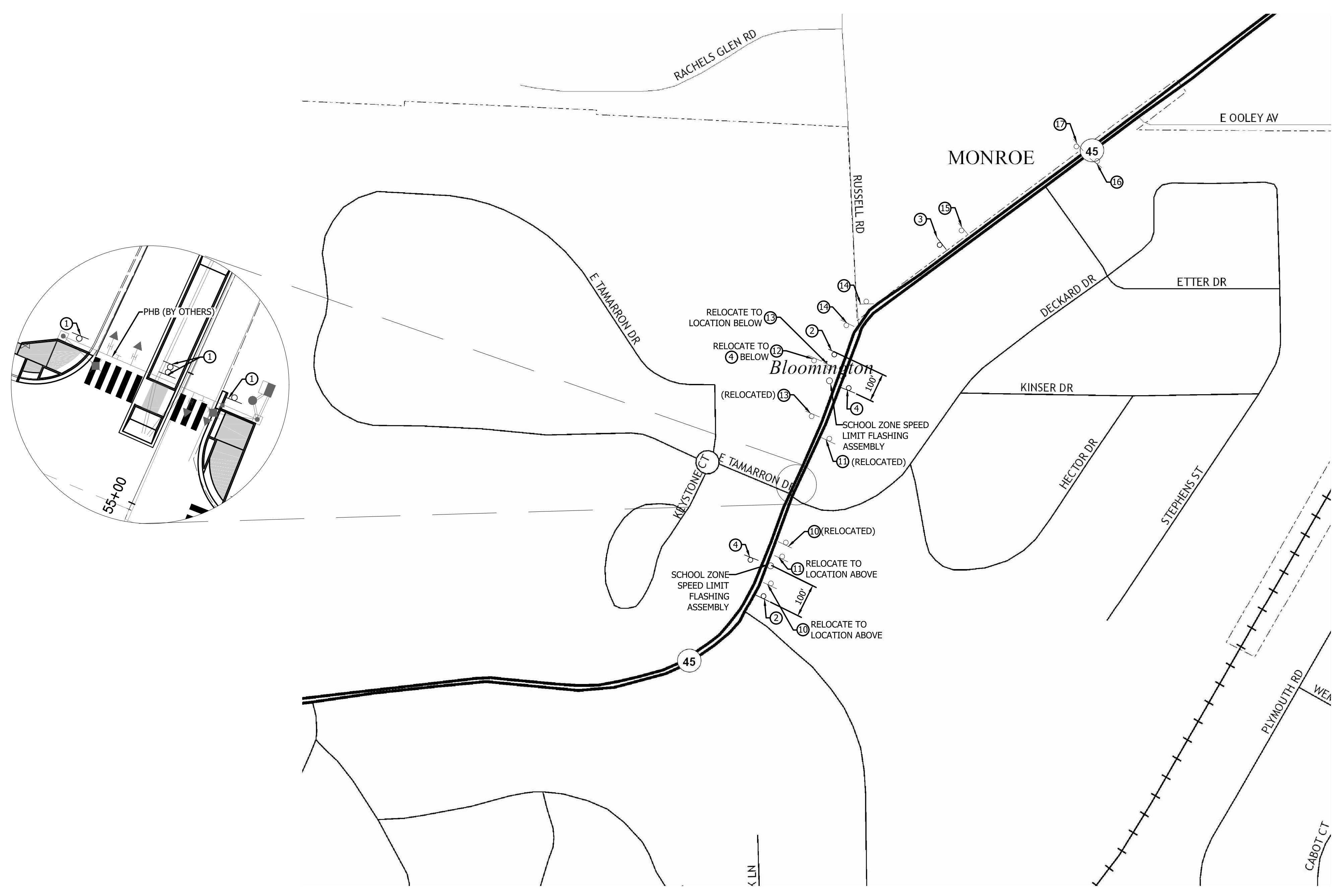
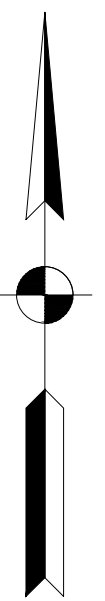


RECOMMENDED FOR APPROVAL	<i>Renee Lynn Hoff</i>	DESIGN ENGINEER	08/30/17	DATE
DESIGNED:	BAB	DRAWN:	BAB	
CHECKED:	RLG	CHECKED:	RLG	

CITY OF BLOOMINGTON 10TH STREET PEDESTRIAN IMPROVEMENTS	
SCHOOL FLASHER LAYOUT	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	11 of 18
CONTRACT	PROJECT
N/A	

- NOTES:
1. CONTRACTOR TO FIELD VERIFY EXISTING SIGN LOCATIONS AND TYPE PRIOR TO CONSTRUCTION. RELOCATED SIGNS ARE SHOWN IN GENERAL LOCATION ONLY. REFER TO THE LATEST INDIANA MUTCD FOR HORIZONTAL AND VERTICAL PLACEMENT GUIDELINES.



PROPOSED SIGNS

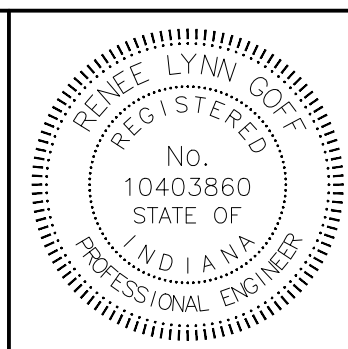
- ① S1-1 36"x36"
 W16-7P 24"x12"
- ② S1-1 36"x36"
- ③ S1-1 36"x36"
 W16-9P 24"x12"
 R2-1 24"x30"
- ④ S5-3 24"x30"

EXISTING SIGNS

- ⑩ SCHOOL BUS STOP AHEAD
- ⑪ 30 MPH
- ⑫ SPEED LIMIT 40
- ⑬ H
- ⑭
- ⑮ 30 MPH
- ⑯ BEGIN SPEED LIMIT 45
- ⑰ BEGIN SPEED LIMIT 40

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Brian Ball 10/6/2017 7:06 AM S:\PROJECT FILES\2016\16-0125\CADD\DESIGN\SHEET SETS\160125_SHT_SIGNS.DWG

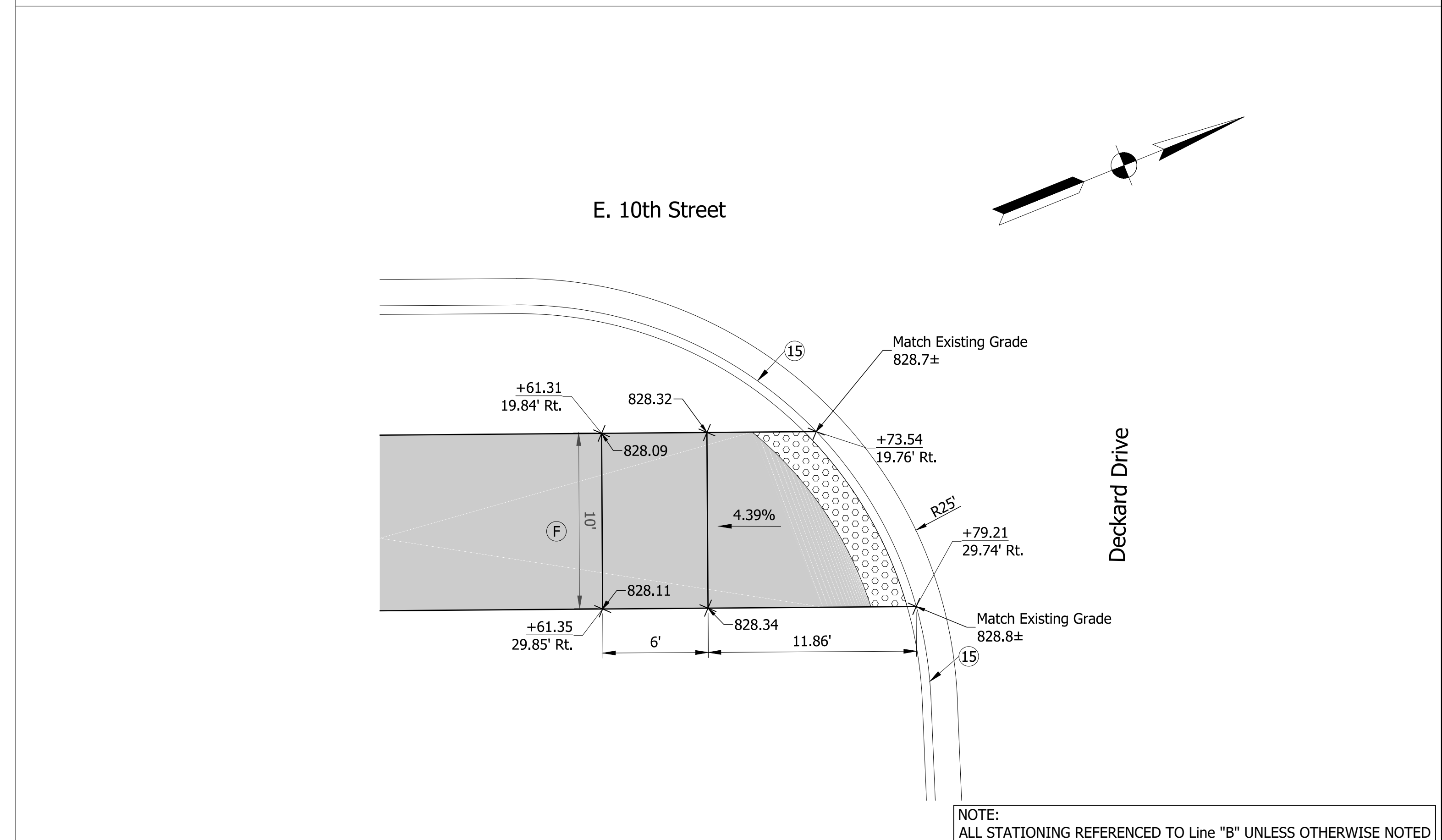
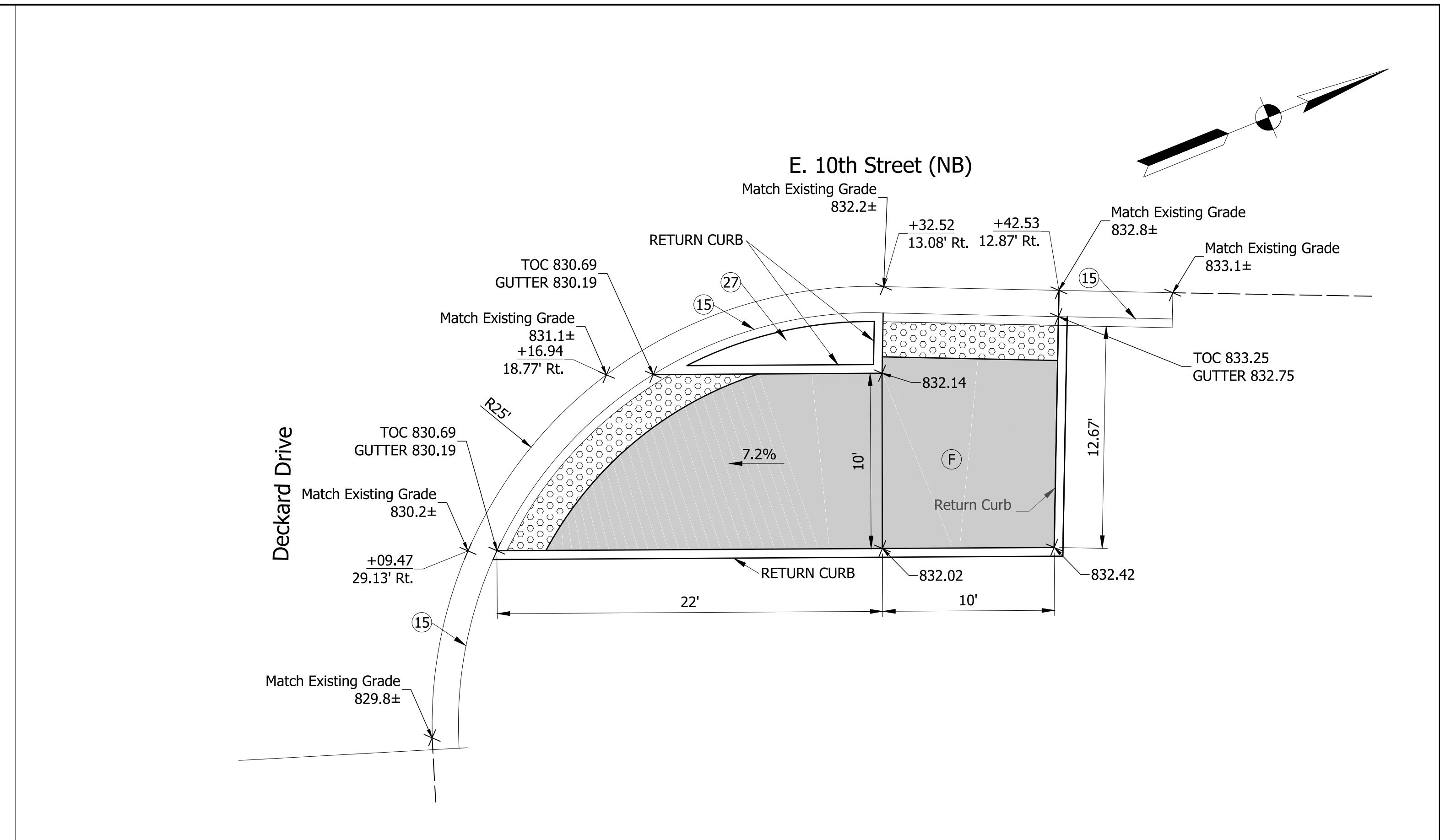
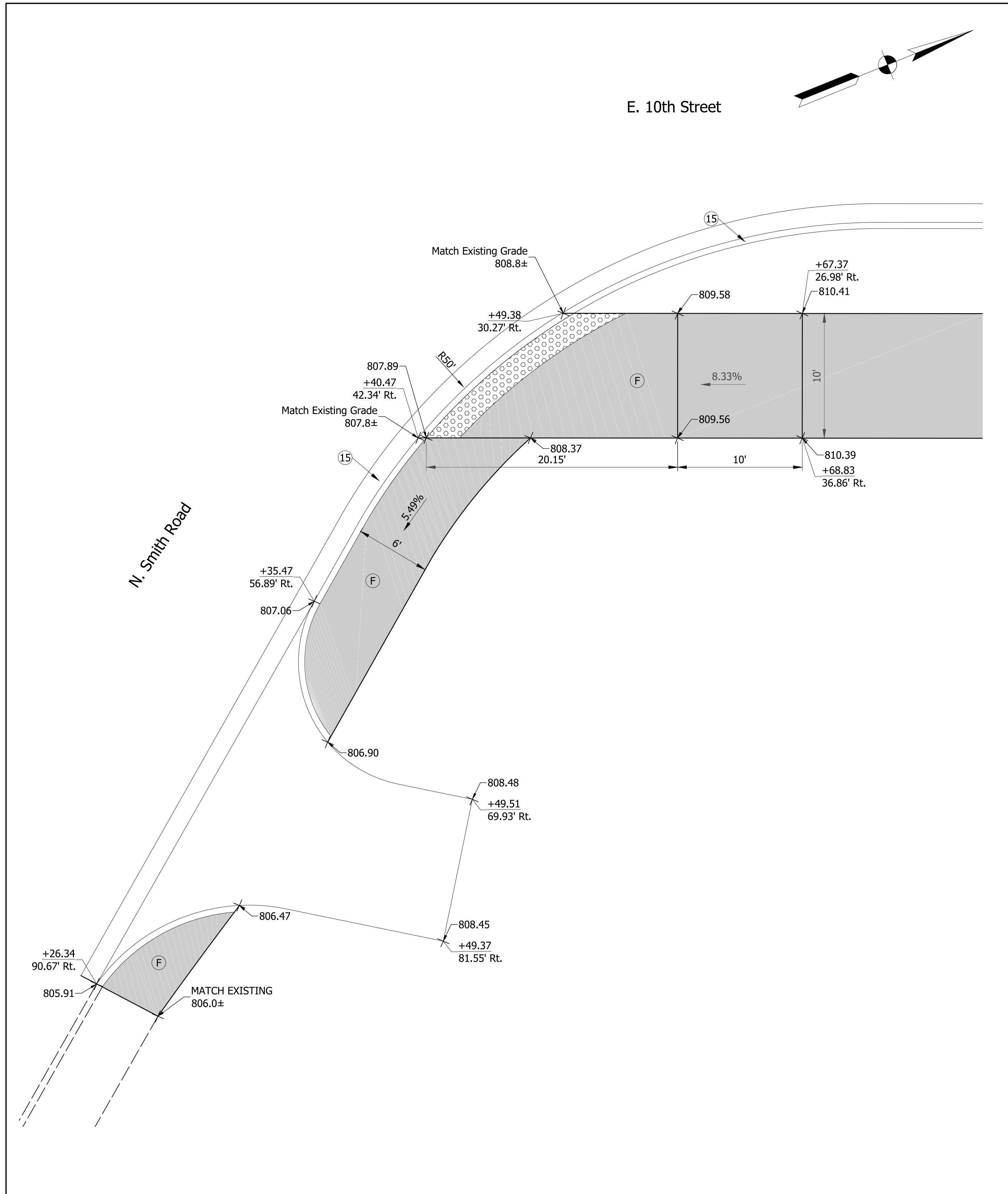


RECOMMENDED FOR APPROVAL	<i>Renee Lynn Hoff</i>	DESIGN ENGINEER	08/30/17	DATE
DESIGNED:	BAB	DRAWN:	BAB	
CHECKED:	RLG	CHECKED:	RLG	

CITY OF BLOOMINGTON
10TH STREET PEDESTRIAN IMPROVEMENTS

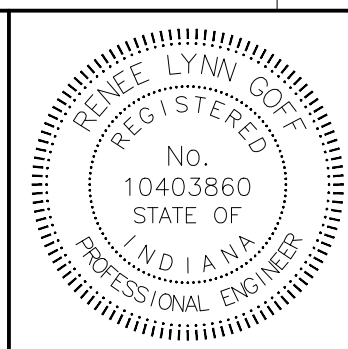
SIGNAGE

HORIZONTAL SCALE	BRIDGE FILE
1" = 200'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	12 of 18
CONTRACT	PROJECT
N/A	



- (F) CONCRETE SIDEWALK, 4" THICKNESS ON 4" COMPACTED AGGREGATE, NO. 53
- (14) CONCRETE CENTER CURB, TYPE D
- (15) CONCRETE CURB AND GUTTER
- (27) SOD

- (X) CONCRETE CURB RAMP
- (Pattern) DETECTABLE WARNING

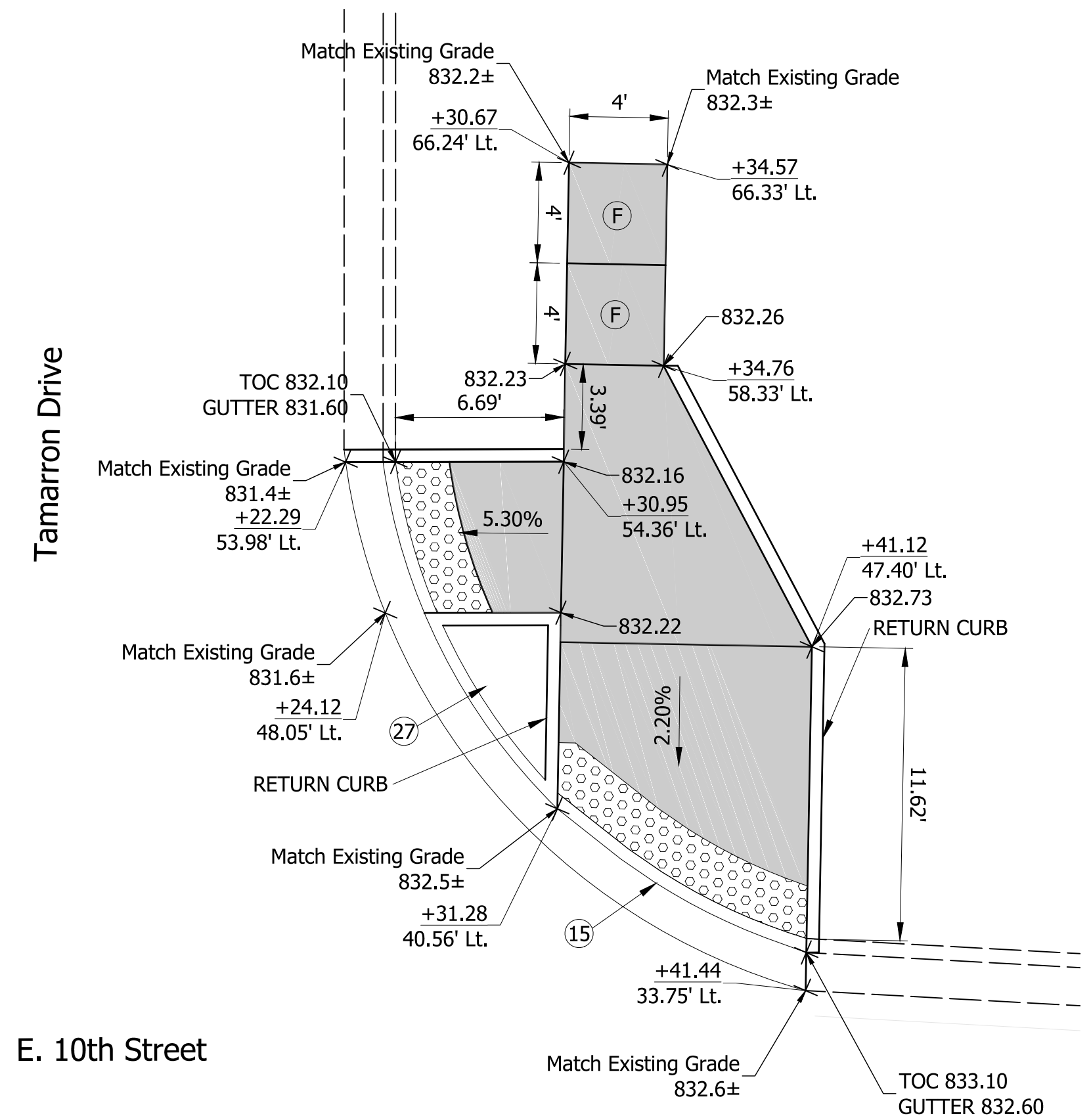
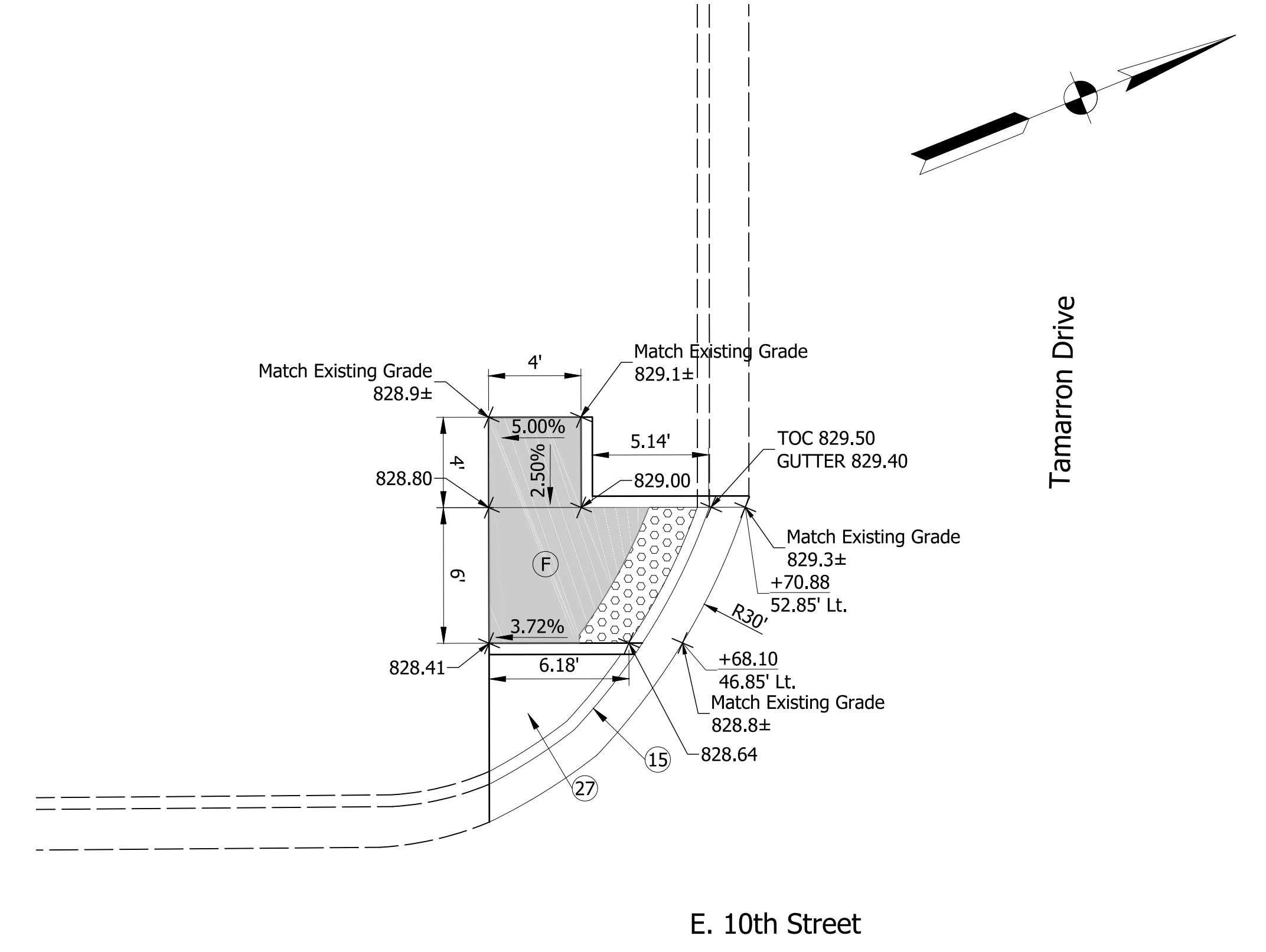
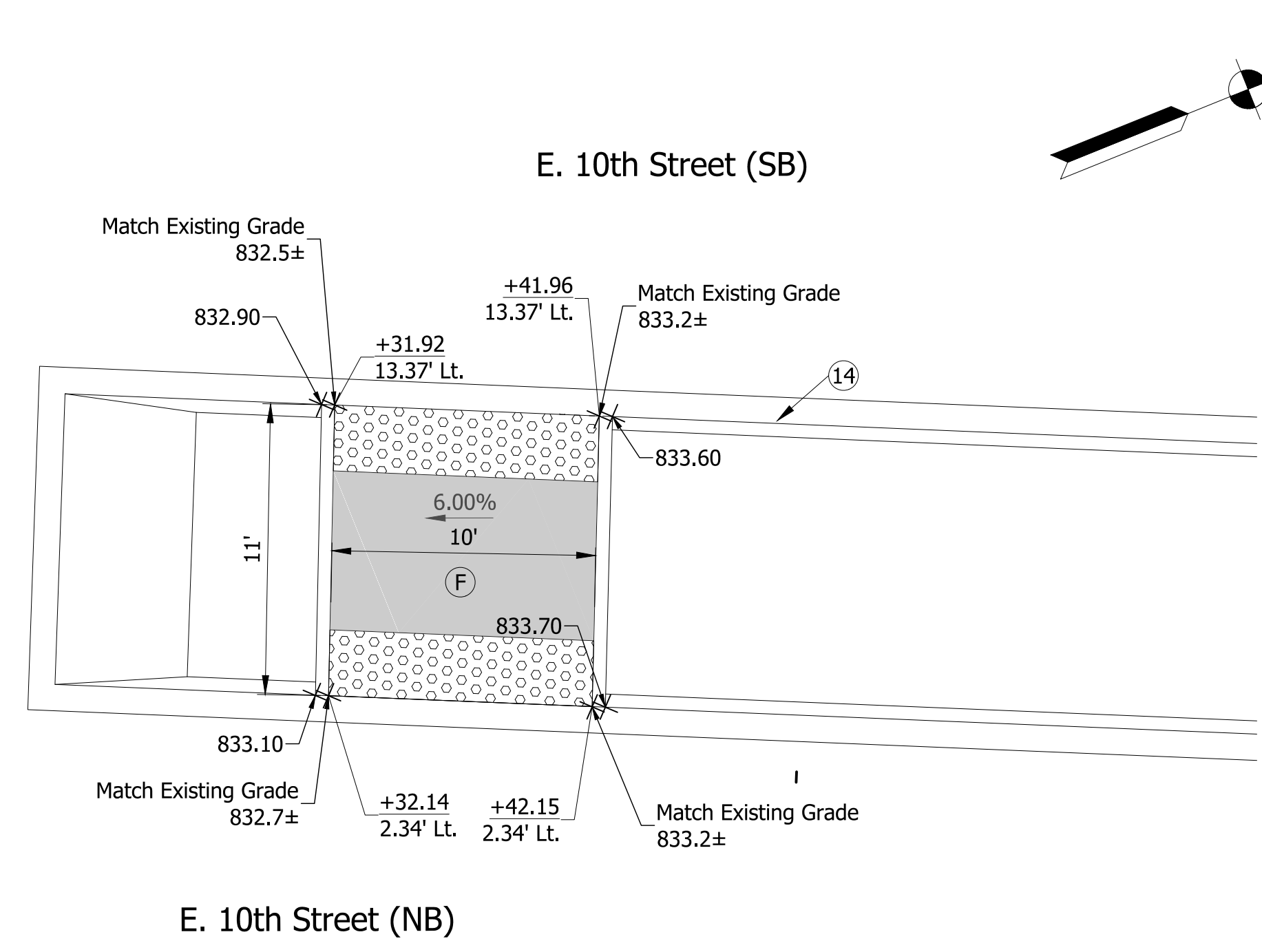


RECOMMENDED FOR APPROVAL	<i>Renee Lynn Hoff</i>	DESIGN ENGINEER	08/30/17	DATE
DESIGNED:	BAB	DRAWN:	BAB	
CHECKED:	RLG	CHECKED:	RLG	

CITY OF BLOOMINGTON
10TH STREET PEDESTRIAN IMPROVEMENTS

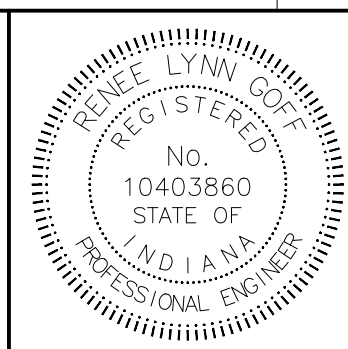
CURB RAMP DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	13 of 18
CONTRACT	PROJECT
N/A	



NOTE:
ALL STATIONING REFERENCED TO Line "B" UNLESS OTHERWISE NOTED

- (F) CONCRETE SIDEWALK, 4" THICKNESS ON 4" COMPACTED AGGREGATE, NO. 53
- (14) CONCRETE CENTER CURB, TYPE D
- (15) CONCRETE CURB AND GUTTER
- (27) SOD
- (X) CONCRETE CURB RAMP
- DETECTABLE WARNING



RECOMMENDED FOR APPROVAL: *Renee Lynn Hoff*, DESIGN ENGINEER, 08/30/17 DATE

DESIGNED: BAB DRAWN: BAB
CHECKED: RLG CHECKED: RLG

CITY OF BLOOMINGTON
10TH STREET PEDESTRIAN IMPROVEMENTS

CURB RAMP DETAILS

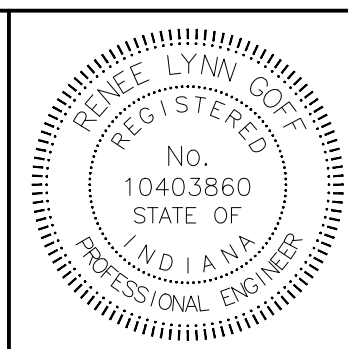
HORIZONTAL SCALE 1" = 5'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 14 of 18
CONTRACT N/A	PROJECT

AutoCAD PDF (General Documentation).pc3
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STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH LFT	VIDEO INSPECTION LENGTH LFT	SKEW	FLOW LINE			SERVICE LIFE YRS	SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL CYS	TYPE	FLOWABLE BACKFILL CYS	TYPE	GEOTEXTILES SYS	REVEMENT RUPRAP TON	SCOUR PROTECTION				VIDEO INSPECTION LFT	PIPE END SECTION EA.	RIM ELEV.	CONNECT TO STR.	REMARKS		
	STATION	LEFT	RIGHT	CROSS						PIPE TYPE	COVER LFT	UP STREAM ELEV.											DOWN STREAM ELEV.	SUMP DEPTH IN.	GEOTEX TILE SYS.	RUPRAP TYPE						CONCRETE CLASS A, FOR STR. CYS	
				FT	IN.																												
1	52+88	X		44	15	2																											
2	53+28	X		6	15	2	148			4.8	808.75	808.30															820.17	1					
3	53+99	X		7	15	2	68			5.4	817.51	813.58															824.14	2					
4	55+48	X		6	15	2	145			5.9	825.76	817.61															833.26	3					
5	55+49	X		20	15	2	14			4.3	827.40	827.24															832.35	4					
6	55+60	X		19	15	2	10			5.0	831.41	830.90																5					
7	53+29	X		12	12	2	6			2.6	816.02	816.00															819.96	2					
8	54+00	X		12	12	2	5			3.6	819.02	819.00															823.96	3					

NOTE:
ALL STATIONING REFERENCED TO Line "B" UNLESS OTHERWISE NOTED



RECOMMENDED FOR APPROVAL: *Renee Lynn Hoff* 08/30/17
DESIGN ENGINEER DATE

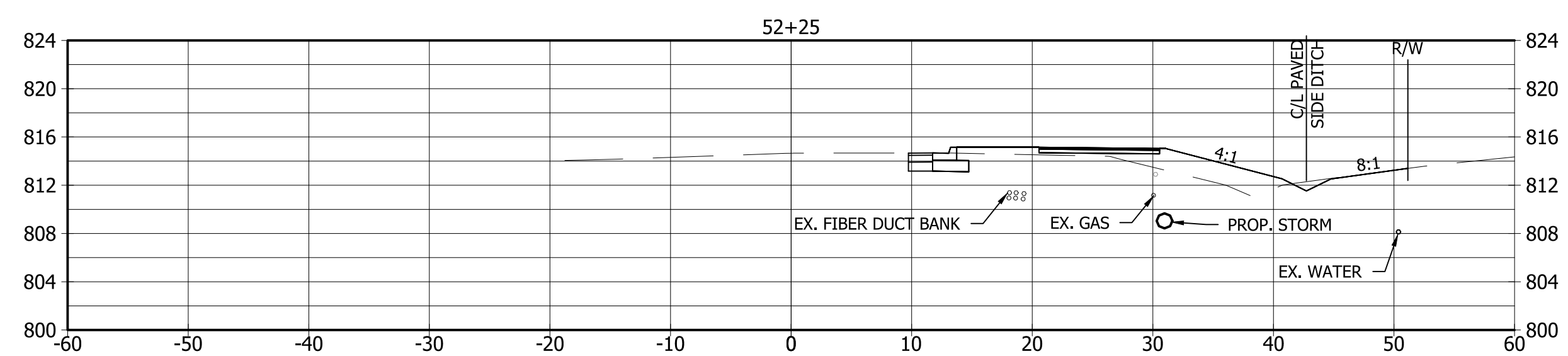
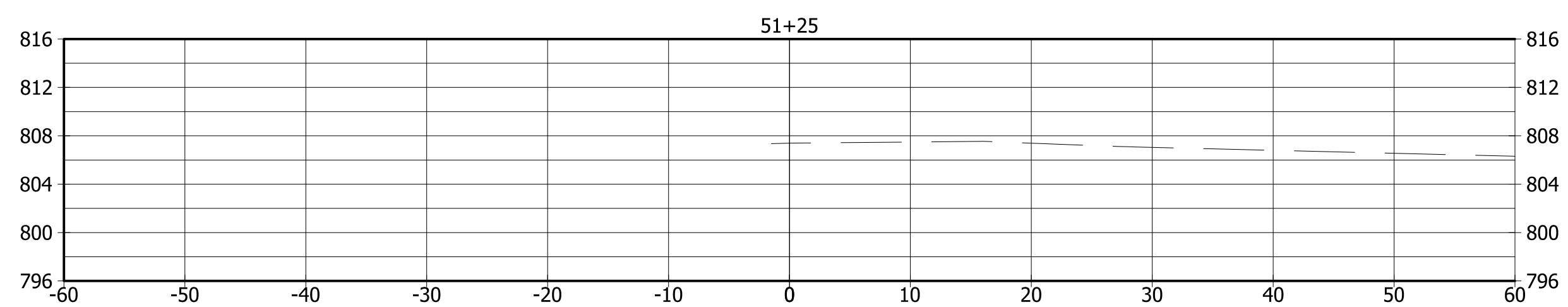
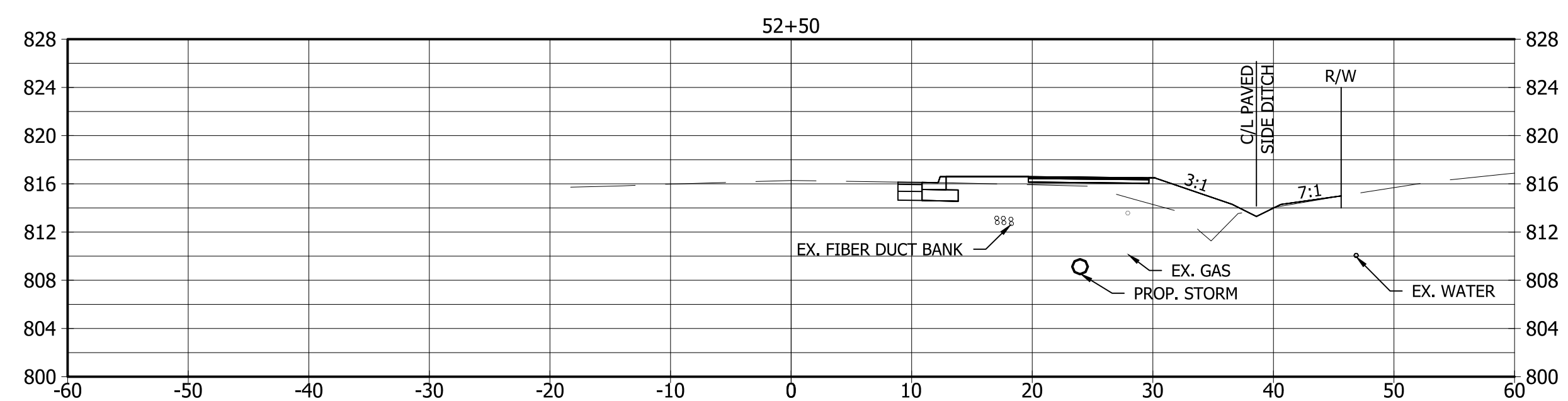
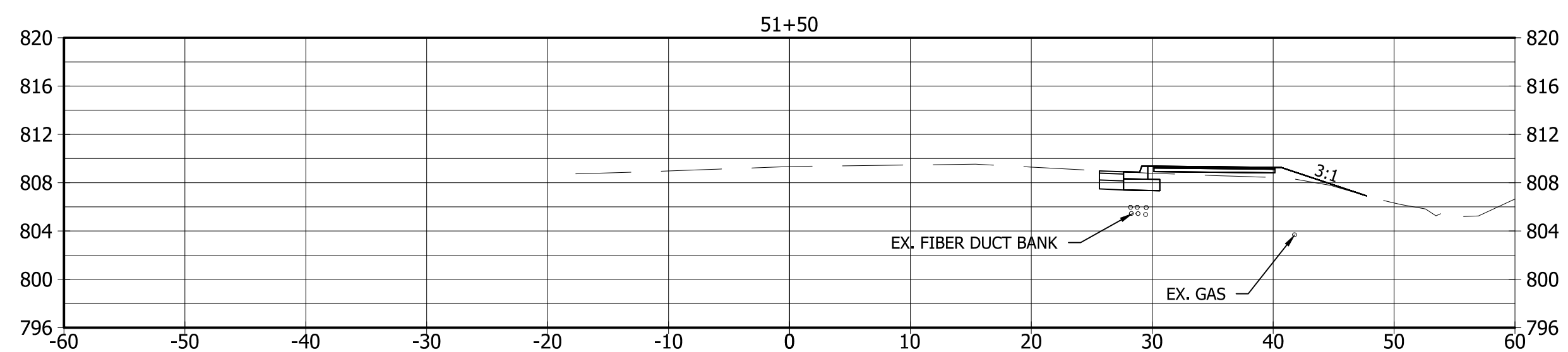
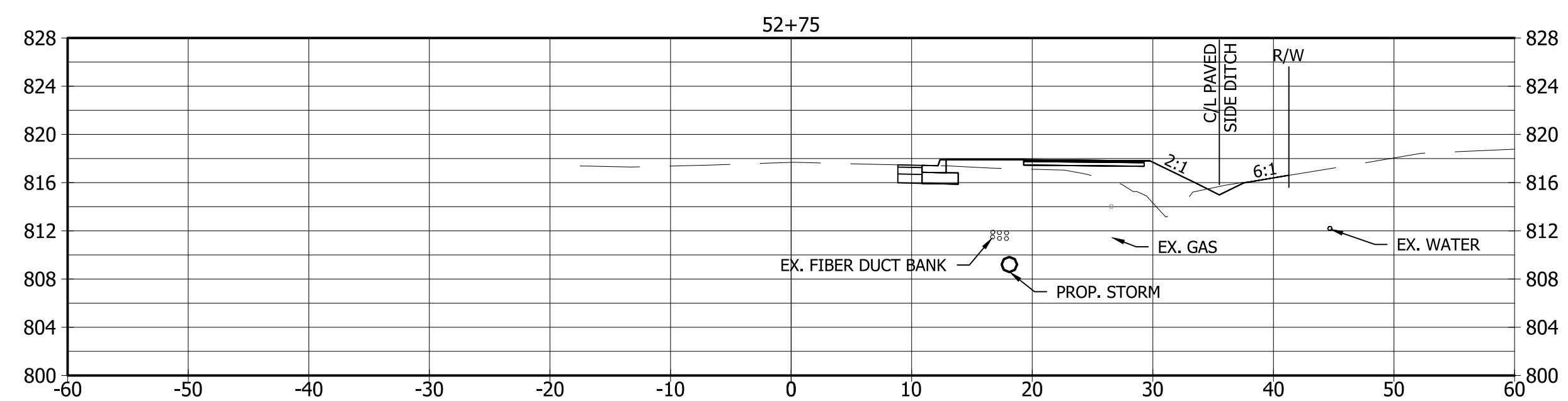
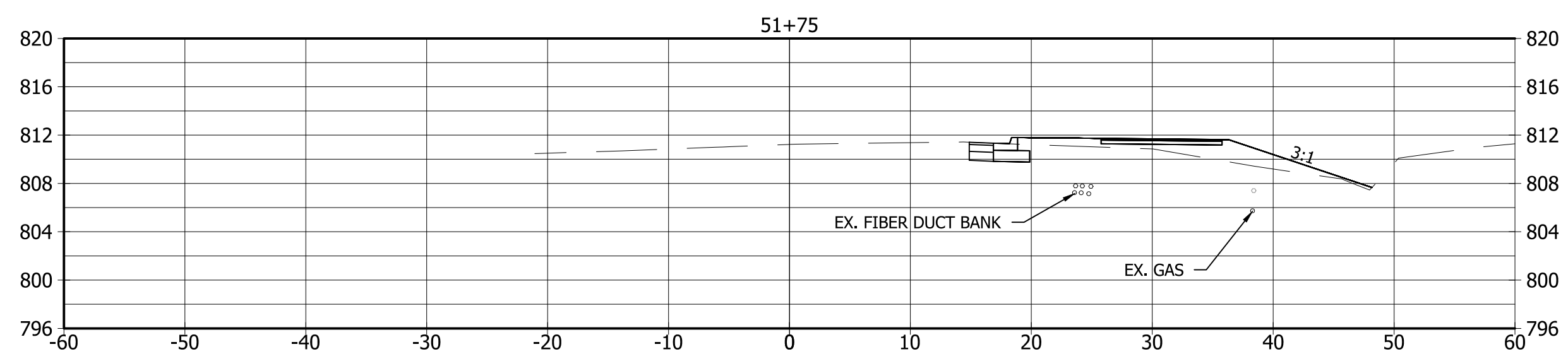
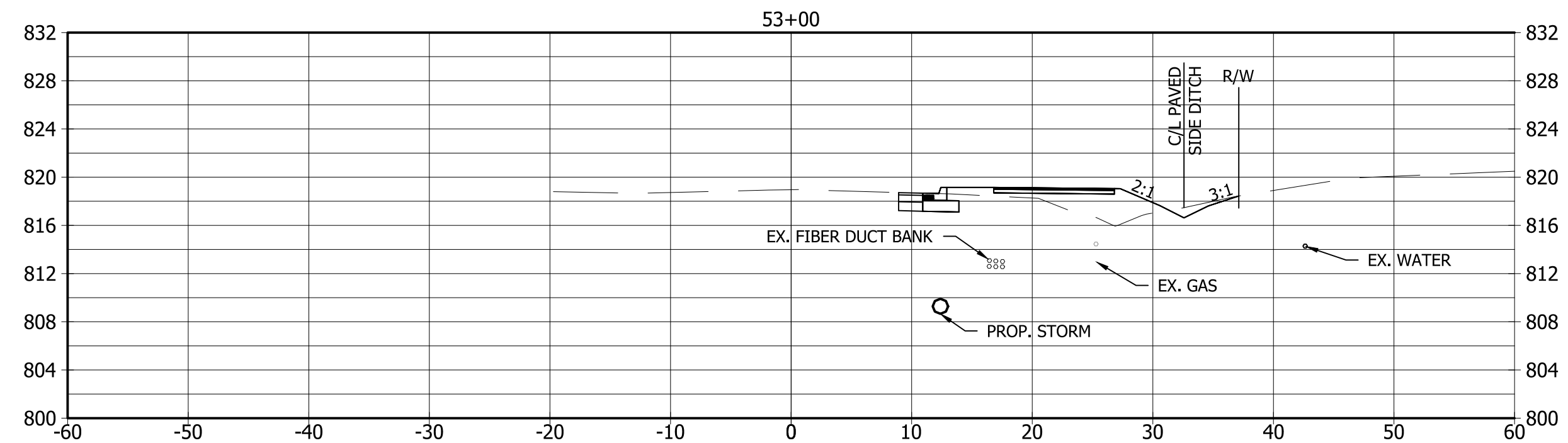
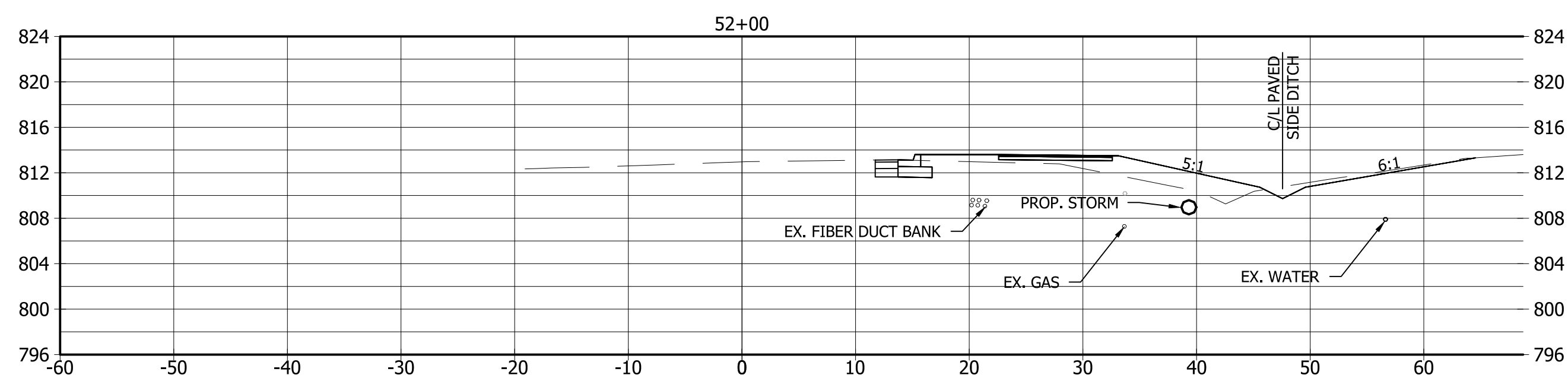
DESIGNED: BAB DRAWN: BAB

CHECKED: RLG CHECKED: RLG

CITY OF BLOOMINGTON
10TH STREET PEDESTRIAN IMPROVEMENTS

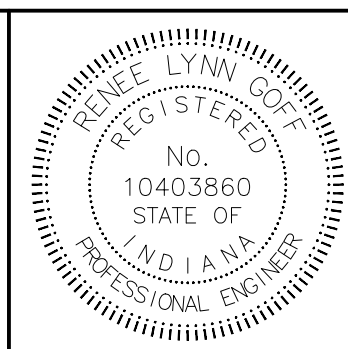
STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	15 of 18
CONTRACT	PROJECT
N/A	



NOTE:
ALL STATIONING REFERENCED TO Line "B" UNLESS OTHERWISE NOTED

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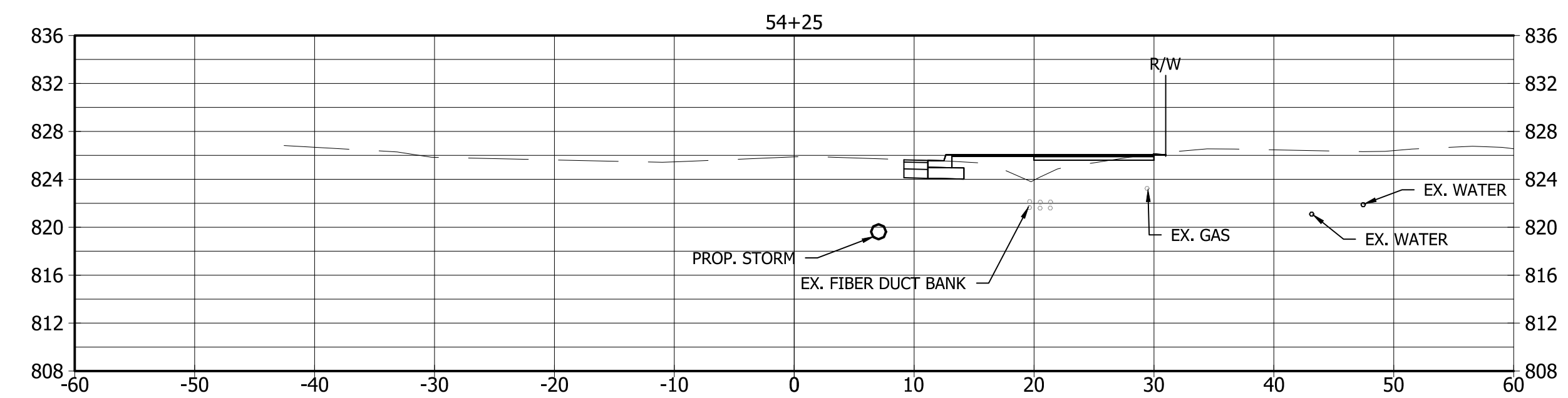
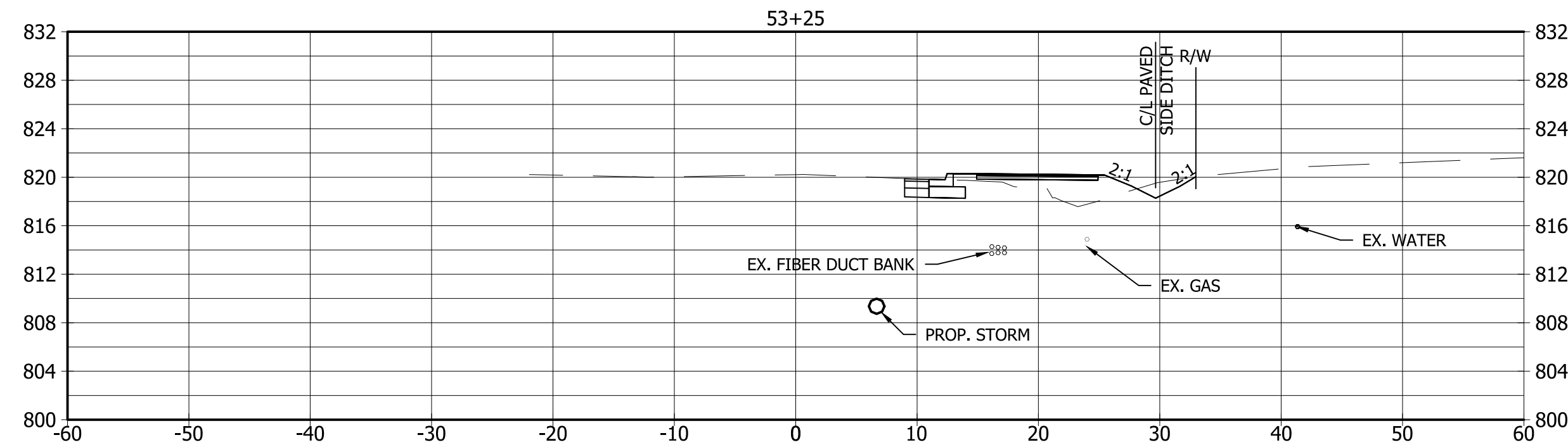
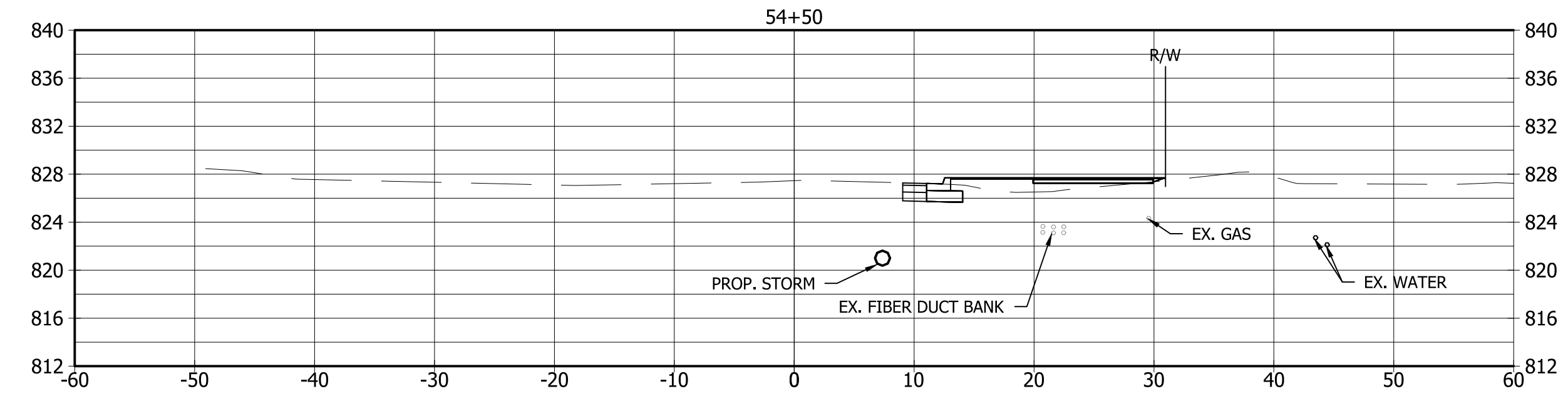
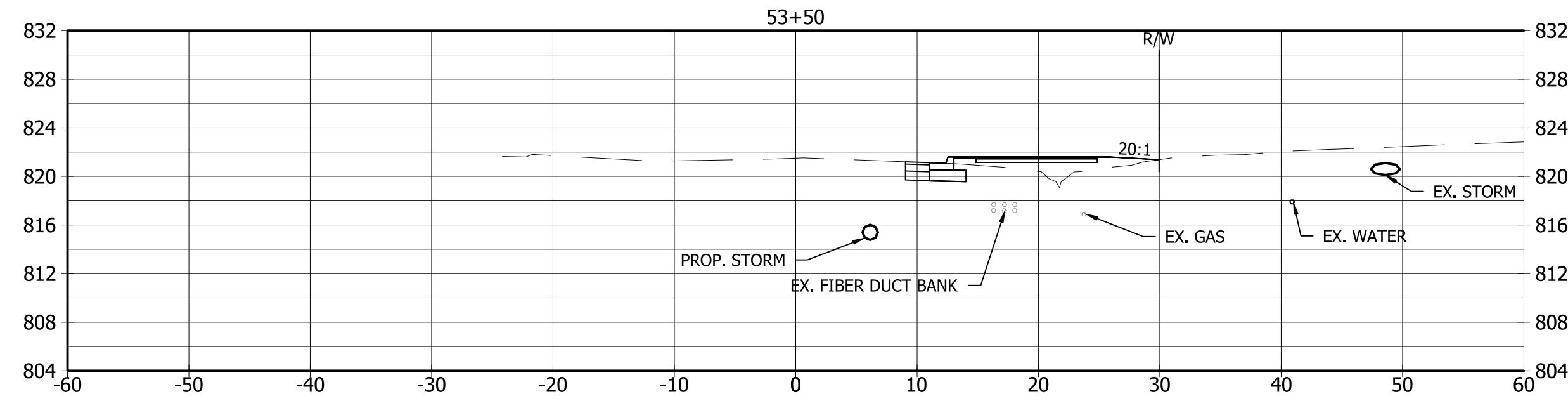
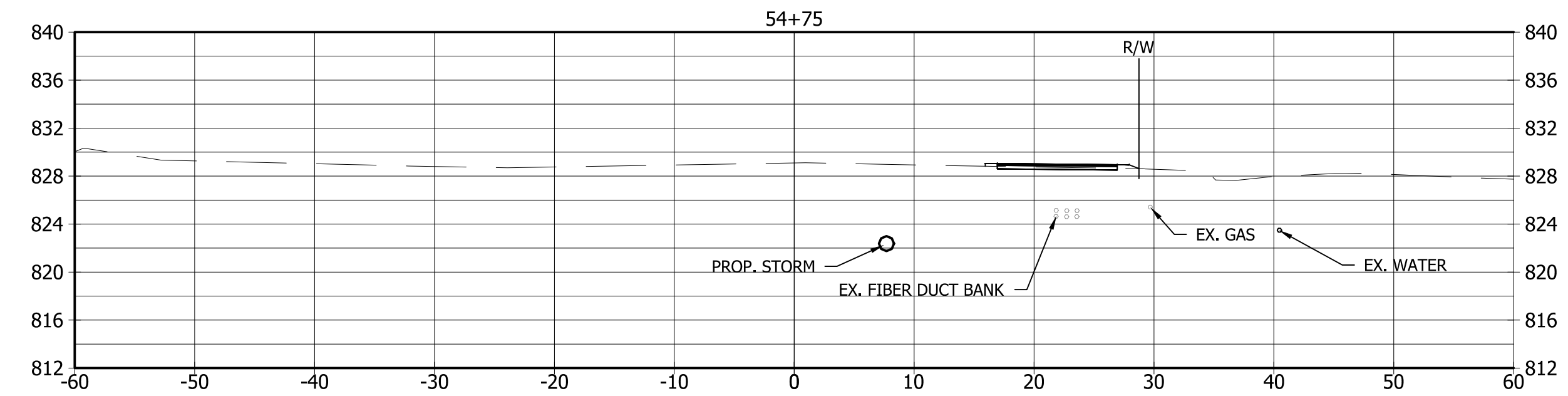
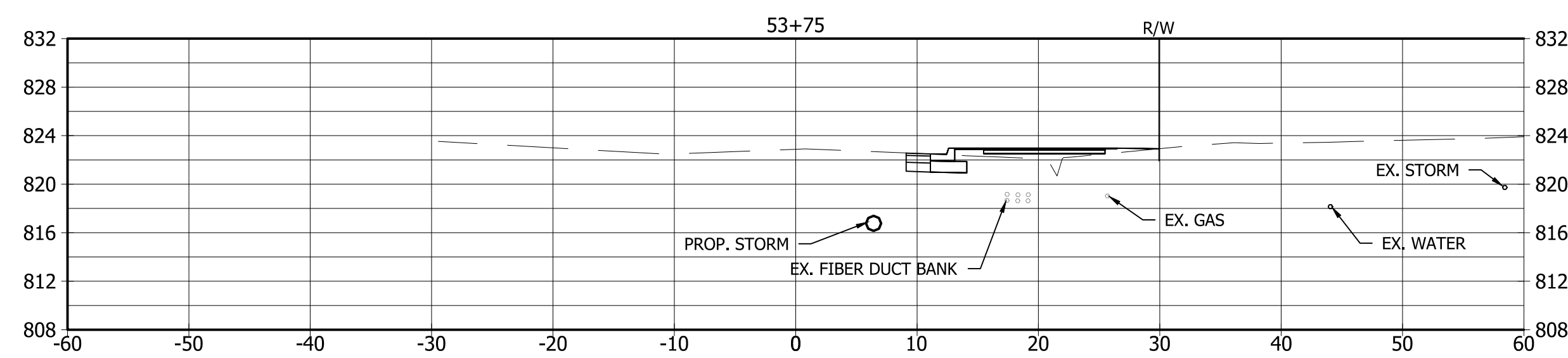
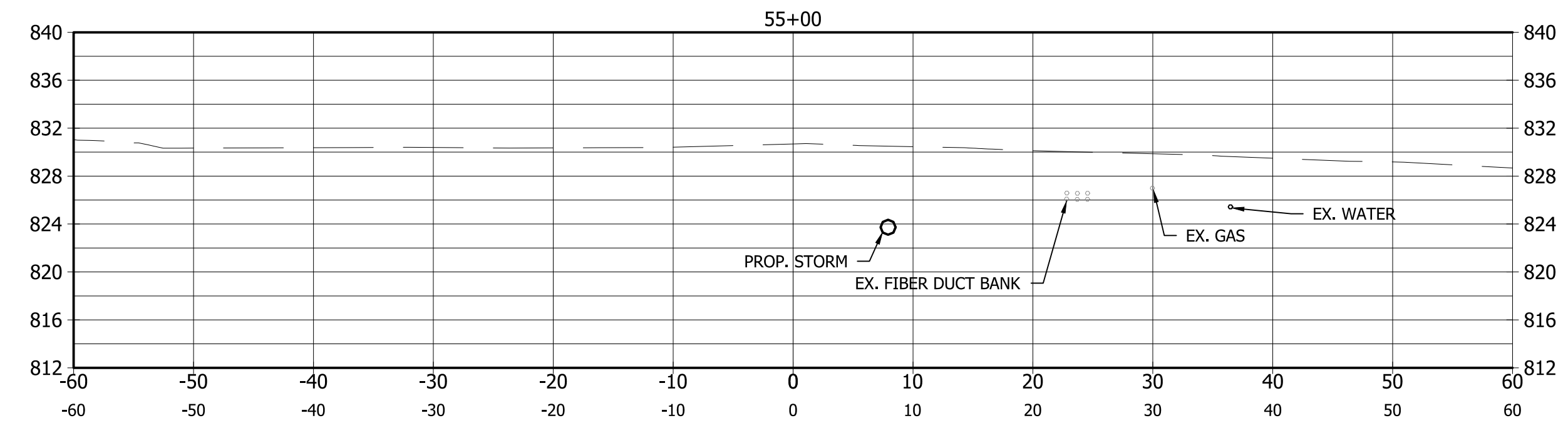
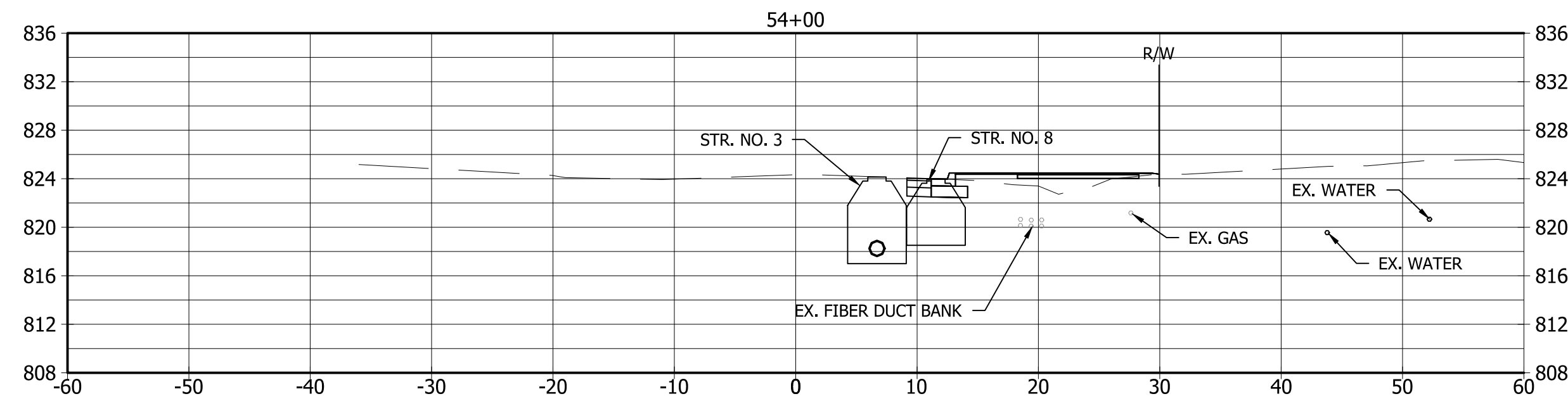


RECOMMENDED FOR APPROVAL	<i>Renee Lynn Hoff</i>	DESIGN ENGINEER	08/30/17	DATE
DESIGNED:	BAB	DRAWN:	BAB	
CHECKED:	RLG	CHECKED:	RLG	

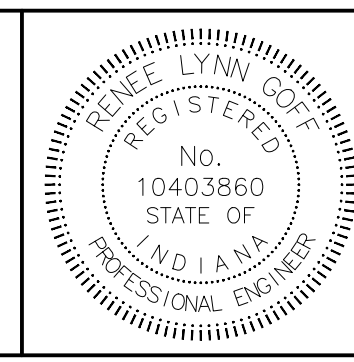
**CITY OF BLOOMINGTON
10TH STREET PEDESTRIAN IMPROVEMENTS**

CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	16 of 18
CONTRACT	PROJECT
N/A	



NOTE:
ALL STATIONING REFERENCED TO Line "B" UNLESS OTHERWISE NOTED

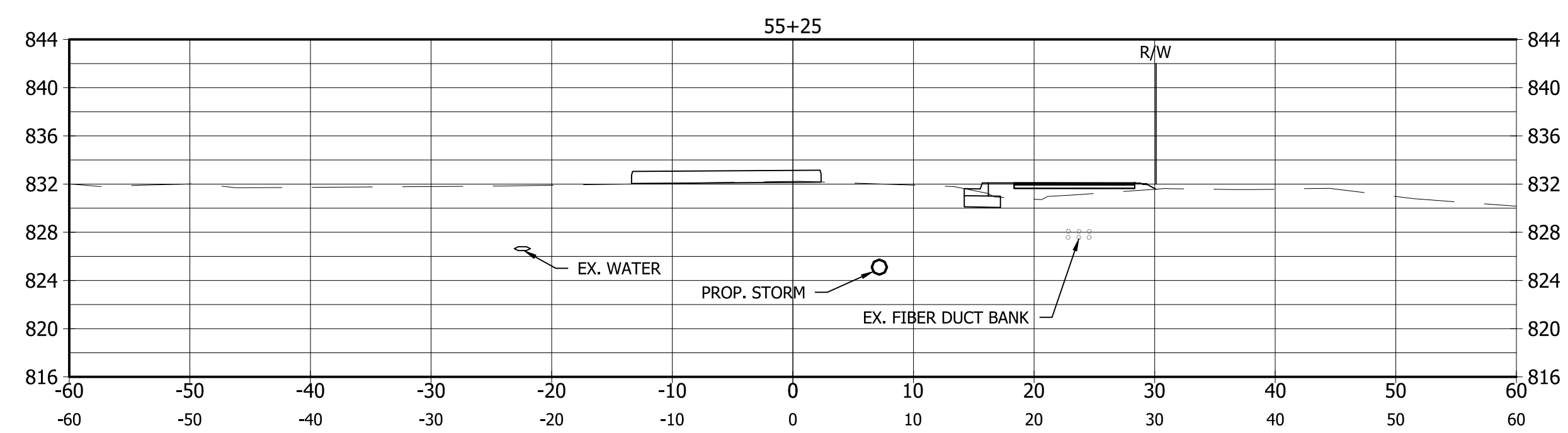
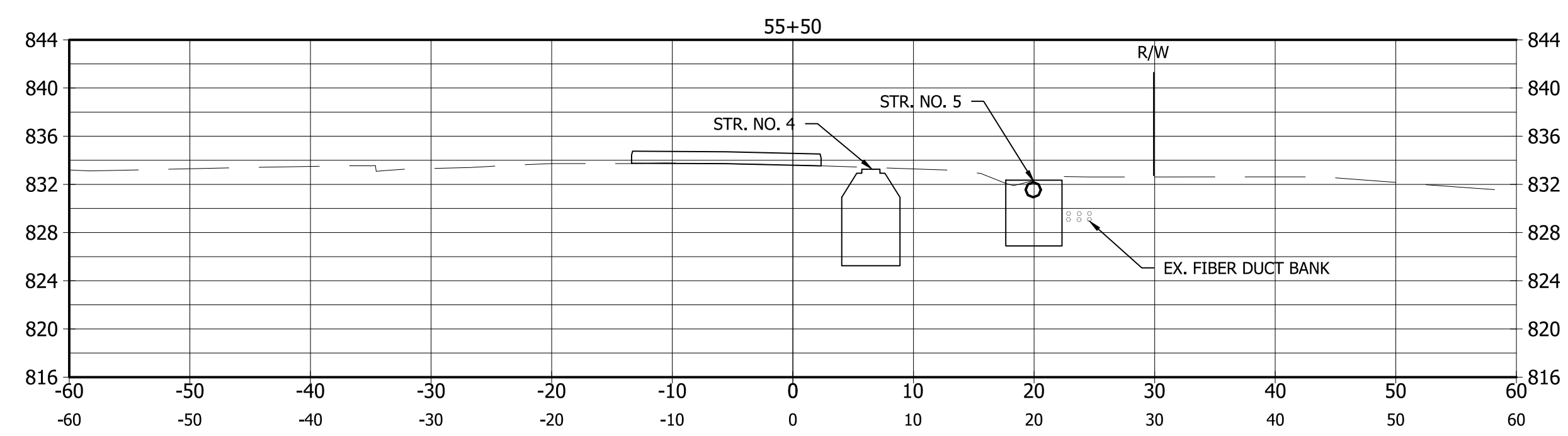
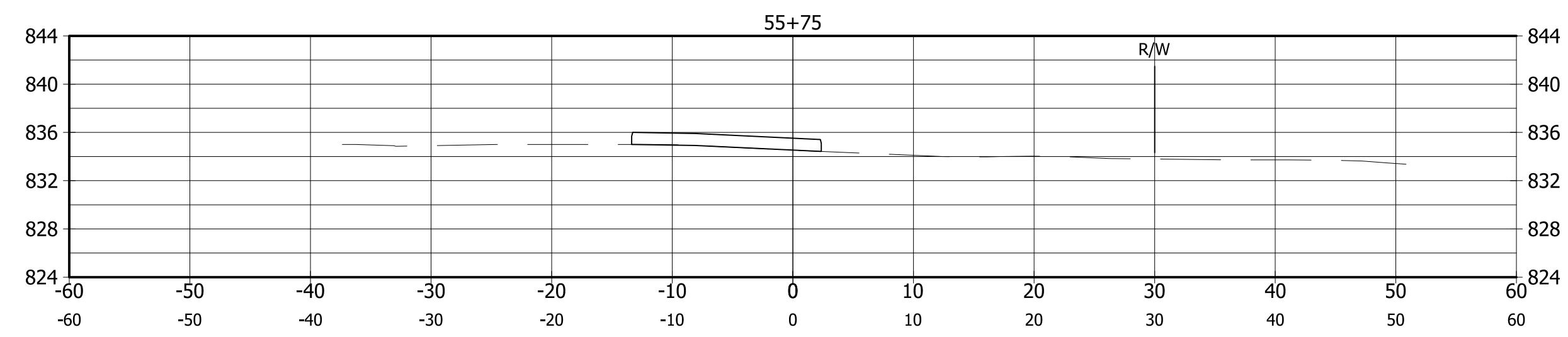


RECOMMENDED FOR APPROVAL	<i>Denise Lynn Hoff</i> DESIGN ENGINEER	08/30/17 DATE
DESIGNED: <u>BAB</u>	DRAWN: <u>BAB</u>	
CHECKED: <u>RLG</u>	CHECKED: <u>RLG</u>	

CITY OF BLOOMINGTON
10TH STREET PEDESTRIAN IMPROVEMENTS

CROSS SECTIONS

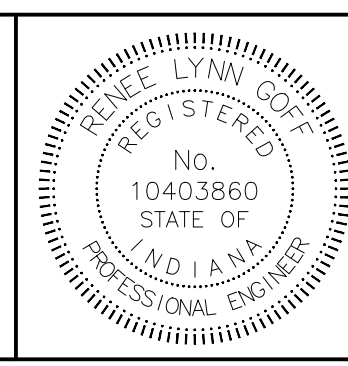
HORIZONTAL SCALE 1" = 10'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 17 of 18
CONTRACT N/A	PROJECT



NOTE:
ALL STATIONING REFERENCED TO Line "B" UNLESS OTHERWISE NOTED

AutoCAD PDF (General Documentation).pc3
Shrewsbury.ctb

Brian Ball 10/6/2017 7:06 AM S:\PROJECT FILES\2016\16-0125\CADD\DESIGN\SHEET SETS\160125_SHT_XSEC.DWG



RECOMMENDED FOR APPROVAL	<i>Renee Lynn Hoff</i> DESIGN ENGINEER	08/30/17 DATE
DESIGNED: <u>BAB</u>	DRAWN: <u>BAB</u>	
CHECKED: <u>RLG</u>	CHECKED: <u>RLG</u>	

CITY OF BLOOMINGTON 10TH STREET PEDESTRIAN IMPROVEMENTS	
CROSS SECTIONS	

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	N/A
SURVEY BOOK	SHEETS
N/A	18 of 18
CONTRACT	PROJECT
N/A	