

|          |             |
|----------|-------------|
| PROJECT  | DESIGNATION |
| 1703015  | 1703015     |
| CONTRACT |             |
| R-40897  |             |

# INDIANA DEPARTMENT OF TRANSPORTATION

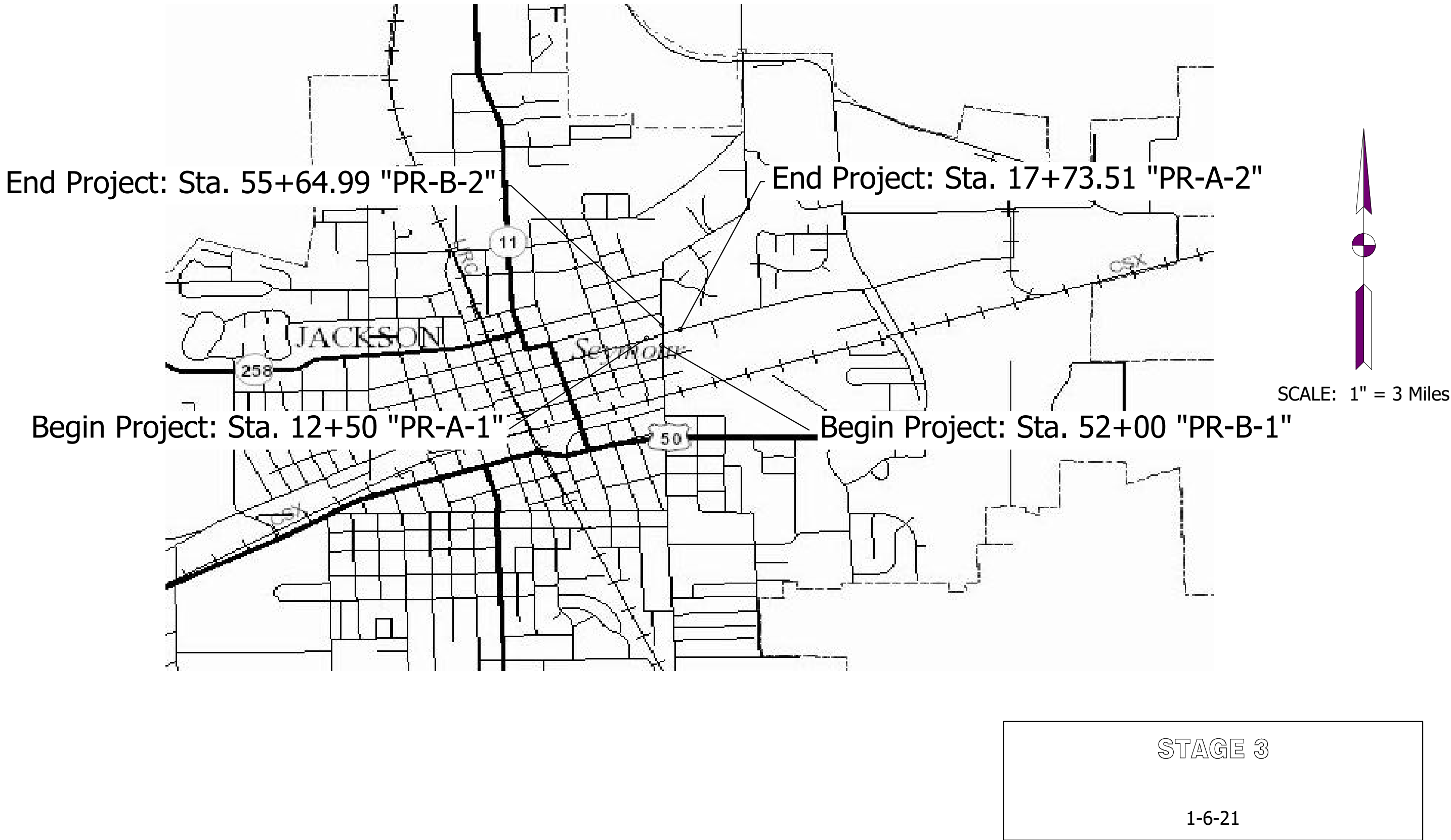


## ROAD PLANS

ROUTE: O'Brien Street at 4th Street

PROJECT NO. 1703015 P.E.  
1703015 R/W  
1703015 CONST.

Intersection Improvement on O'Brien Street at 4th Street  
Located 0.04 Miles North of US 50  
Section 29, T-35-N, R-87-E, Noblesville Twp., Jackson County, Indiana



### TRAFFIC DATA

|                          |              |
|--------------------------|--------------|
| A.A.D.T. (2018)          | 6300 V.P.D.  |
| A.A.D.T. (2038)          | 6300 V.P.D.  |
| D.H.V (2018)             | 633 V.P.H.   |
| DIRECTIONAL DISTRIBUTION | 55 %         |
| TRUCKS                   | 8 % A.A.D.T. |
|                          | 8 % D.H.V.   |

### DESIGN DATA

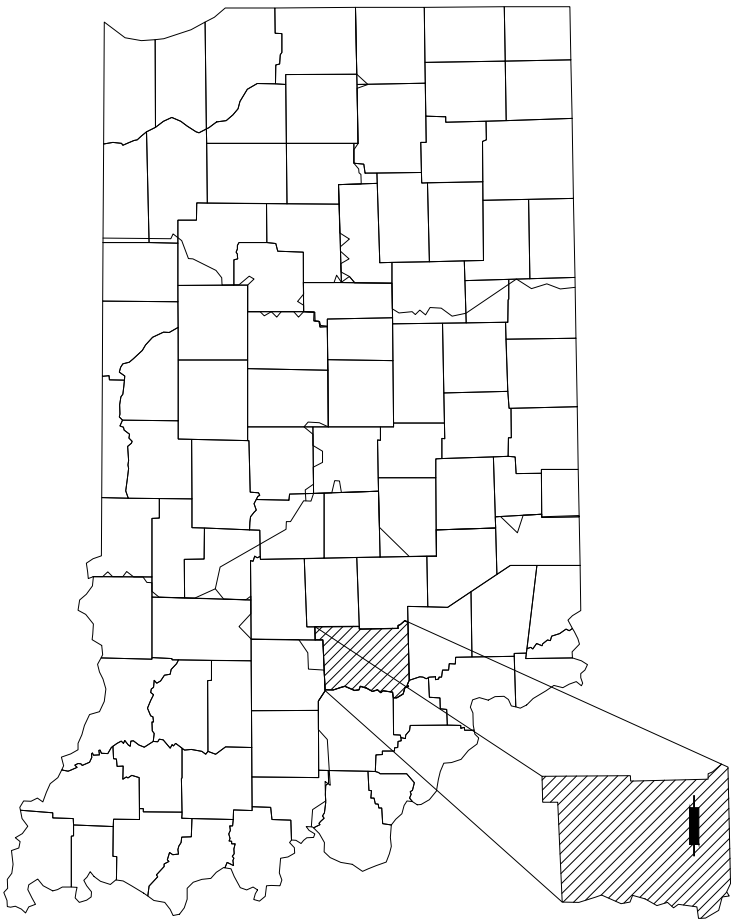
|                           |                  |
|---------------------------|------------------|
| DESIGN SPEED              | 30 M.P.H.        |
| PROJECT DESIGN CRITERIA   | 3R (NON FREEWAY) |
| FUNCTIONAL CLASSIFICATION | MINOR ARTERIAL   |
| RURAL/URBAN               | URBAN            |
| TERRAIN                   | LEVEL            |
| ACCESS CONTROL            | NONE             |

### TRAFFIC DATA

|                          |               |
|--------------------------|---------------|
| A.A.D.T. (2018)          | 5700 V.P.D.   |
| A.A.D.T. (2038)          | 5700 V.P.D.   |
| D.H.V (2018)             | 645633 V.P.H. |
| DIRECTIONAL DISTRIBUTION | 55 %          |
| TRUCKS                   | 8 % A.A.D.T.  |
|                          | 8 % D.H.V.    |

### DESIGN DATA

|                           |                  |
|---------------------------|------------------|
| DESIGN SPEED              | 30 M.P.H.        |
| PROJECT DESIGN CRITERIA   | 3R (NON FREEWAY) |
| FUNCTIONAL CLASSIFICATION | LOCAL STREET     |
| RURAL/URBAN               | URBAN            |
| TERRAIN                   | LEVEL            |
| ACCESS CONTROL            | NONE             |



PROJECT LOCATION SHOWN BY — Jackson County

LATITUDE: N 38 57 47 LONGITUDE: W 85 52 53

GROSS LENGTH: 0.060 MI.  
NET LENGTH: 0.060 MI.  
MAX. GRADE: 3.08 %

HUC: 05120206040030 East Fork White R-Heddy Run  
05120207080050 Mutton Creek-Sandy Branch  
INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2020  
TO BE USED WITH THESE PLANS



PLANS PREPARED BY: SHORT ELLIOTT HENDRICKSON, INC. (614) 424-6344 PHONE NUMBER

CERTIFIED BY: 1-6-21 DATE

APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

|             |         |
|-------------|---------|
| SURVEY BOOK | SHEETS  |
| ---         | 1 of 27 |
| CONTRACT    | PROJECT |
| R-40897     | 1703015 |



Save: 1/6/2021 3:41 PM jstepanovic Plot: 8/25/2021 4:59 PM X:\PT\IS\SE\Y\N\14919315-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet\1491931TL.dwg

| GENERAL NOTES: |                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                                                                      |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.             | THE CONTRACTOR SHALL PROVIDE FULL DEPTH SAW CUTS WHERE EXISTING PAVEMENT, CONCRETE OR ASPHALT IS TO BE REMOVED. THE CONTRACTOR SHALL PROVIDE ADEQUATE COMPACTED MATERIAL/GRAVEL AT SAW CUT EDGE TO SHORE UP AND PREVENT THE DEGRADATION OF THE EXISTING PAVEMENT TO REMAIN. DAMAGE TO EXISTING PAVEMENT WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.                                                                                   | 14. | WHERE SANITARY MANHOLES ARE LOCATED OUTSIDE OF PAVED AREAS, CONTRACTOR SHALL GRADE AROUND EACH CASTING SO THAT SURFACE WATER SHALL NOT DRAIN INTO OR OVER THE STRUCTURE.                                                                                                                                                                                             |
| 2.             | THE CONTRACTOR SHALL PLACE AND MAINTAIN A 6" AGGREGATE BASE AT ALL PROPOSED ENTRANCES TO THE CONSTRUCTION SITE, PRIOR TO DEMOLITION.                                                                                                                                                                                                                                                                                                    | 15. | THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HEALTH AND SAFETY OF HIS EMPLOYEES AND THE SUBCONTRACTORS PER OSHA REGULATIONS AND ANY OTHER ORGANIZATION HAVING JURISDICTION.                                                                                                                                                                                           |
| 3.             | EROSION CONTROL PROVISIONS SHALL BE IN PLACE PRIOR TO ALL OPERATIONS. THE CONTRACTOR SHALL FOLLOW THE TOWN'S REQUIREMENTS FOR THE PROJECT AND PRACTICES OUTLINED IN THE "INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS" REQUIRED FOR THE PREVENTION OF SOIL EROSION AND SEDIMENTATION WITHIN AND DOWNSTREAM OF THE CONSTRUCTION SITE. SAID PRACTICES AND REQUIREMENTS SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT. | 16. | CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID FOR WORK. BY SUBMITTING A BID, THE CONTRACTOR INDICATES THAT HE HAS VISITED THE SITE AND IS AWARE OF ALL EXISTING CONDITIONS.                                                                                                                                                                              |
| 4.             | CONTRACTOR SHALL COORDINATE WITH INDOT AND THE CITY OF SEYMOUR RELATIVE TO ALL WORK TO BE PERFORMED WITHIN THE PUBLIC RIGHT OF WAY. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL MEASURES WITHIN PUBLIC RIGHT OF WAY AS REQUIRED.                                                                                                                                                                                             | 17. | NO OPEN TRENCHES WILL BE ALLOWED IN THE EVENING AFTER DAILY CONSTRUCTION OPERATIONS HAVE FINISHED, EXCEPT IN THE AREA OF THE TRENCHING BOX. CONTRACTOR TO PROVIDE CONSTRUCTION FENCING AND NECESSARY WARNING SIGNAGE AROUND TRENCHING BOX AREA FOR PUBLIC SAFETY.                                                                                                    |
| 5.             | ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (IMUTCD), LATEST EDITION. AND INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD DRAWINGS, LATEST EDITION. ANY SIGNS DAMAGED BY CONSTRUCTION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.                                                                                                              | 18. | CONTRACTOR SHALL NOTIFY THE CITY OF SEYMOUR ENGINEER'S OFFICE AND PUBLIC WORKS OFFICE 48 HOURS PRIOR TO THE INSTALLATION OF THE CONNECTION TO THE EXISTING STRUCTURE/PIPING.                                                                                                                                                                                         |
| 6.             | UTILITIES SHOWN ON PLANS ARE APPROXIMATE IN LOCATION AND ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT BE ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES WHETHER IDENTIFIED BELOW AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DESIGN ENGINEER.                                                                       | 19. | THE CONTRACTOR SHALL CLEAR AND GRUB ALL NON-PAVEMENT AREAS LOCATED WITHIN THE CONSTRUCTION LIMITS IN ACCORDANCE WITH THE SPECIFICATIONS INCLUDING THE REMOVAL OF ALL TREES OF ALL DIAMETERS, SHRUBS, BUSHES AND MISCELLANEOUS DEBRIS NOT CALLED OUT TO BE PROTECTED ON THE PLANS.                                                                                    |
| 7.             | THE CONTRACTOR SHALL CONFORM TO INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION YEAR 2020, FOR ALL WORK TO BE PERFORMED, UNLESS OTHERWISE SPECIFIED OR NOTED.                                                                                                                                                                                                                                                               | 20. | CONTACT THE CITY OF SEYMOUR ENGINEER'S OFFICE OR PUBLIC WORKS OFFICE FOR SANITARY SEWER, ROADWAY LIGHTING, TRAFFIC SIGNAL AND STORM SEWER INFORMATION.                                                                                                                                                                                                               |
| 8.             | MAINTENANCE OF TRAFFIC DURING CONSTRUCTION SHALL BE PROVIDED FOR ALL PUBLIC RIGHT-OF-WAYS IN ACCORDANCE WITH INDOT STANDARD DRAWINGS AND SPECIFICATIONS. REFER TO STANDARD DRAWING NO. E 801-TCTL-07, E 801-TCLC-12, E 801-TCSN-01, E 801 TCSN-02, E 801-TCSN-01, E 801-TCSN-05, E 801-TCSN-11, E 801-TCSN-12, E 801-TCSN-13, E 801-TCDV-01 AND E 801-TCDV-02 FOR DETAILS.                                                              | 21. | CONTRACTOR SHALL MAINTAIN ALL ROADWAY LIGHTING AND TRAFFIC SIGNALS INSTALLED UNDER THIS CONTRACT UNTIL FINAL ACCEPTANCE. RESPONSE TO MAINTENANCE CALLS SHALL BE MADE WITHIN TWO HOURS OR LESS, SEVEN DAYS A WEEK, TWENTY-FOUR HOURS PER DAY.                                                                                                                         |
| 9.             | TACK COAT SHALL BE APPLIED TO ALL HMA OR CONCRETE PAVEMENT BEFORE PLACEMENT OF ANY HMA MIXTURES IN ACCORDANCE WITH INDOT STANDARD SPECIFICATION SECTION 406.                                                                                                                                                                                                                                                                            | 22. | CONTRACTOR SHALL PERFORM ALL WORK WITHIN REASONABLE WORK HOURS (7:00 AM TO 7:00 PM) MONDAY THROUGH SATURDAY. CONTRACTOR SHALL NOT WORK ON HOLIDAYS IDENTIFIED IN INDOT SPECIFICATION SECTION 101.23. DEVIATIONS IN WORK SCHEDULE SHALL BE APPROVED IN WRITING BY THE TOWN ENGINEER, OR PUBLIC WORKS DIRECTOR                                                         |
| 10.            | CONTRACTOR SHALL RESTORE ALL DRIVES AND PAVEMENT TRUE TO HORIZONTAL AND VERTICAL LINES. THE SECTION REMOVED SHALL BE REPLACED TO ITS ORIGINAL CONDITION WHERE INDICATED ON THE PLANS OR BETTER OR AS STATED BY THESE PLANS AND SPECIFICATIONS. ANY DRIVE OR PAVING OUTSIDE THE CONSTRUCTION AREA DAMAGED BY CONSTRUCTION PRACTICES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.                                         | 23. | ALL EXISTING LIGHTING SHALL REMAIN OPERABLE UNTIL NEW LIGHTING IS INSTALLED AND OPERABLE.                                                                                                                                                                                                                                                                            |
| 11.            | WHEN EXCAVATING NEAR UTILITIES, CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING, BRACING OR SHORING AS REQUIRED TO PREVENT DAMAGE TO THE UTILITIES.                                                                                                                                                                                                                                                                                      | 24. | MAINTAIN ROADWAY SIGNAGE DURING CONSTRUCTION.                                                                                                                                                                                                                                                                                                                        |
| 12.            | CONTRACTOR SHALL RESTORE ALL AFFECTED SITE CONDITIONS TO THEIR ORIGINAL CONDITION OR BETTER AFTER COMPLETION OF THE WORK. GRASS REQUIRING REPLACEMENT THROUGHOUT THE PROJECT SHALL BE SEEDED PER THE SPECIFICATIONS. ANY DITCH AFFECTED BY THE CONSTRUCTION SHALL BE RE-ESTABLISHED TO ITS ORIGINAL LINE AND GRADE.                                                                                                                     | 25. | ACCESS TO ALL RESIDENCES AND COMMERCIAL FACILITIES SHALL BE MAINTAINED AT ALL TIMES.                                                                                                                                                                                                                                                                                 |
| 13.            | CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEWATERING. WATER REMOVED BY DEWATERING EQUIPMENT SHALL NOT BE DISPOSED OF INTO SANITARY OR STORM SEWERS WITHOUT WRITTEN APPROVAL BY THE <u>CITY OF SEYMOUR, BOARD OF PUBLIC WORKS</u> .                                                                                                                                                                                                        | 26. | MAINTAIN TRAFFIC CONTROL AND MAINTENANCE OF TRAFFIC MEASURES AT ALL TIMES.                                                                                                                                                                                                                                                                                           |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                         | 27. | ALL RADII DIMENSIONS ARE FROM <u>EDGE OF PAVEMENT</u> UNLESS OTHERWISE NOTED.                                                                                                                                                                                                                                                                                        |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                         | 28. | CONTRACTOR SHALL VERIFY ALL BENCHMARK ELEVATIONS WITH A CLOSED LEVEL CIRCUIT PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE SURVEY CONTROL WITH ENGINEER PRIOR TO LAYOUT.                                                                                                       |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                         | 29. | CONTRACTOR SHALL PROVIDE TO <u>THE OWNER</u> , AS-BUILT DRAWINGS SHOWING ALL DEVIATIONS FROM PLAN INCLUDING BUT NOT LIMITED TO LOCATION, ELEVATION, COLOR OR TYPE. IF A PARTICULAR SHEET OR PLAN HAS NO DEVIATION, CONTRACTOR SHALL SUBMIT THE PLAN AND LABEL "NO DEVIATION FROM PLAN." ALL AS-BUILTS SHALL BE SIGNED AND STAMPED BY THE CONTRACTOR'S NAME AND LOGO. |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                         | 30. | ENGINEER WILL SUPPLY CONTRACTOR BENCHMARK AND HORIZONTAL AND VERTICAL CONTROL IN CAD FORMAT FOR LAYOUT PURPOSES.                                                                                                                                                                                                                                                     |

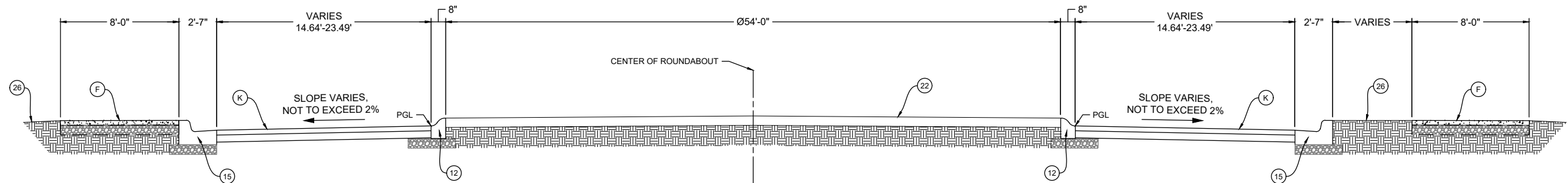
| SHEET INDEX |                        |
|-------------|------------------------|
| SHEET NO.   | DESIGNATION            |
| 1           | TITLE SHEET            |
| 2           | INDEX & GENERAL NOTES  |
| 3           | TYPICAL CROSS SECTIONS |
| 4-5         | DETOUR PLANS           |
| 6           | PLAT ONE               |
| 7-9         | GEOMETRIC PLAN         |
| 10-14       | PLAN AND PROFILES      |
| 15          | CURB RAMP DETAILS      |
| 16-18       | RETAINING WALL PLANS   |
| 19          | PAVEMENT MARKING PLAN  |
| 20          | SIGNING PLAN           |
| 21-27       | CROSS SECTIONS         |

27 TOTAL SHEETS IN THIS PLAN SET

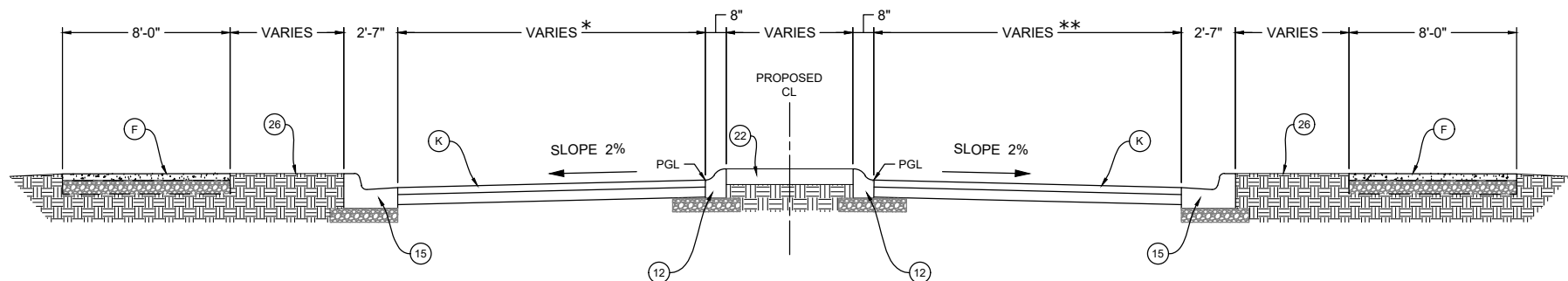
| REVISIONS |      |         |
|-----------|------|---------|
| SHEET NO. | DATE | REVISED |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |
|           |      |         |

| UTILITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ELECTRIC</b><br>Duke Energy<br>1000 E Main Street<br>Mail Drop WP 890<br>Plainfield, IN 46168<br>(812) 375.2044<br><br><b>GAS</b><br>Vectren<br>508 W 2nd Street<br>Seymour, IN 47274<br>(812) 522.8572<br><br><b>WATER</b><br>Indiana American Water<br>7174 N 760 E<br>Seymour, IN 47274<br>(812) 522.8572<br>inutilitycoordination@amwater.com<br><br><b>SEWER</b><br>City of Seymour<br>301-309 N Chestnut Street<br>Seymour, IN 47274<br>(812) 522.5351 | <b>TELECOM</b><br>Metronet<br>(812) 519.1115<br><br>Verizon<br>(800) 483-5000 DSL, T-1, T-3<br><br>Comcast<br>(800) 972.8805<br><br>Frontier<br>(812) 522.0218 |

|  |                                                                                                                                                                                                            |  |                                                                 |              |                                                                       |  |                         |                        |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------|--------------|-----------------------------------------------------------------------|--|-------------------------|------------------------|
|  |  <div>SEH of Indiana<br/>450 East 98th Street, Suite 500<br/>Indianapolis, IN 46240-3760<br/>Phone: 641.424.6344</div> |  | RECOMMENDED FOR APPROVAL _____ XX/XX/XX<br>DESIGN ENGINEER DATE |              | INDIANA DEPARTMENT OF TRANSPORTATION                                  |  | HORIZONTAL SCALE<br>--- | BRIDGE FILE<br>---     |
|  |                                                                                                                                                                                                            |  | DESIGNED: JLS                                                   | DRAWN: RSP   | INDEX & GENERAL NOTES<br>4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT |  | VERTICAL SCALE<br>---   | DESIGNATION<br>1703015 |
|  |                                                                                                                                                                                                            |  | CHECKED: KE                                                     | CHECKED: PWS |                                                                       |  | SURVEY BOOK<br>---      | SHEETS<br>2 of 21      |
|  |                                                                                                                                                                                                            |  |                                                                 |              |                                                                       |  | CONTRACT<br>R-40897     | PROJECT<br>1703015     |



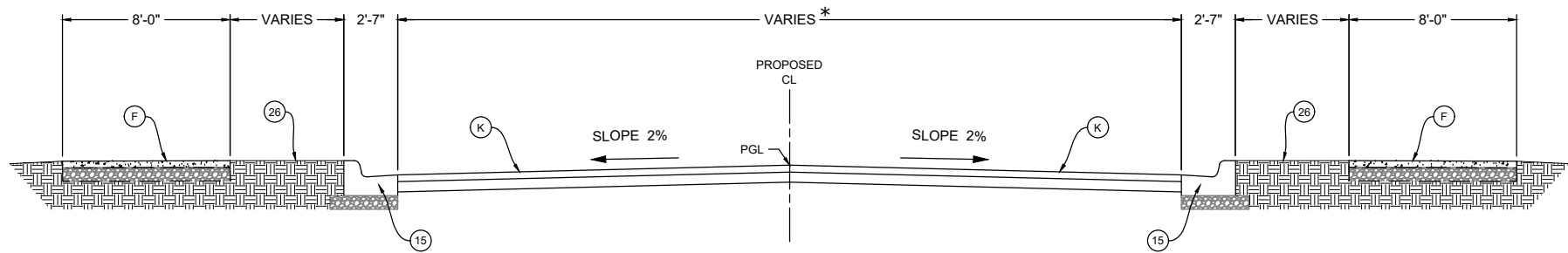
**ROUNDBOUT SECTION**  
LINE 'RAB' STA. 0+00.00 TO STA. 1+75.93  
LINES 'PR-A-1' & 'PR-A-2' STA. 14+68.33 TO STA. 15+24.33  
LINES 'PR-B-1' & 'PR-B-2' STA. 53+78.91 TO STA. 54+34.91



\* LINE 'PR-A-1' VARIES 14.00'-14.88'  
LINE 'PR-A-2' VARIES 14.00'-16.43'  
LINE 'PR-B-1' VARIES 14.00'-16.69'  
LINE 'PR-B-2' VARIES 14.00'-14.66'

**TYPICAL CROSS SECTION**  
LINE 'PR-A-1' STA. 14+14.87 TO STA. 14+52.33  
LINE 'PR-A-2' STA. 15+40.33 TO STA. 15+74.28  
LINE 'PR-B-1' STA. 52+94.75 TO STA. 53+62.91  
LINE 'PR-B-2' STA. 54+50.91 TO STA. 54+89.18

\*\* LINE 'PR-A-1' VARIES 14.00'-17.89'  
LINE 'PR-A-2' VARIES 16.16'-18.87'  
LINE 'PR-B-1' VARIES 14.00'-15.69'  
LINE 'PR-B-2' VARIES 14.00'-15.61'



**TYPICAL CROSS SECTION**  
LINE 'PR-A-1' STA. 12+80.00 TO STA. 14+14.87  
LINE 'PR-A-2' STA. 15+74.28 TO STA. 17+30.00  
LINE 'PR-B-1' STA. 52+37.33 TO STA. 52+94.75  
LINE 'PR-B-2' STA. 54+89.18 TO STA. 55+54.97

\* LINE 'PR-A-1' VARIES 45.50'-38.74'  
LINE 'PR-A-2' VARIES 38.06'-33.68'  
LINE 'PR-B-1' VARIES 35.00'-39.11'  
LINE 'PR-B-2' VARIES 35.00'-36.92'

Save: 5/27/2020 3:58 PM psepianovic Plot: 8/25/2021 5:00 PM X:\PT\SS\SEY\N149193\5-final-dsgn\5-1-drawings\10-Civil\cad\dwg\sheet149193TY.dwg

|                               |                                                                               |
|-------------------------------|-------------------------------------------------------------------------------|
| (C) 9 IN. PCCP FOR APPROACHES | (R) MODULAR BLOCK WALL (SEE SHEETS 16 - 18)                                   |
| (F) 4 IN. CONC SIDEWALK       | (12) MODIFIED INTEGRAL CONCRETE CURB TYPE B                                   |
| (K) HMA PAVEMENT              | (15) COMBINED CURB & GUTTER                                                   |
|                               | (22) 9" PCC, ON 5" COMPACTED AGGREGATE, NO. 53, ON SUBGRADE TREATMENT TYPE 1B |
|                               | (26) SODDING                                                                  |



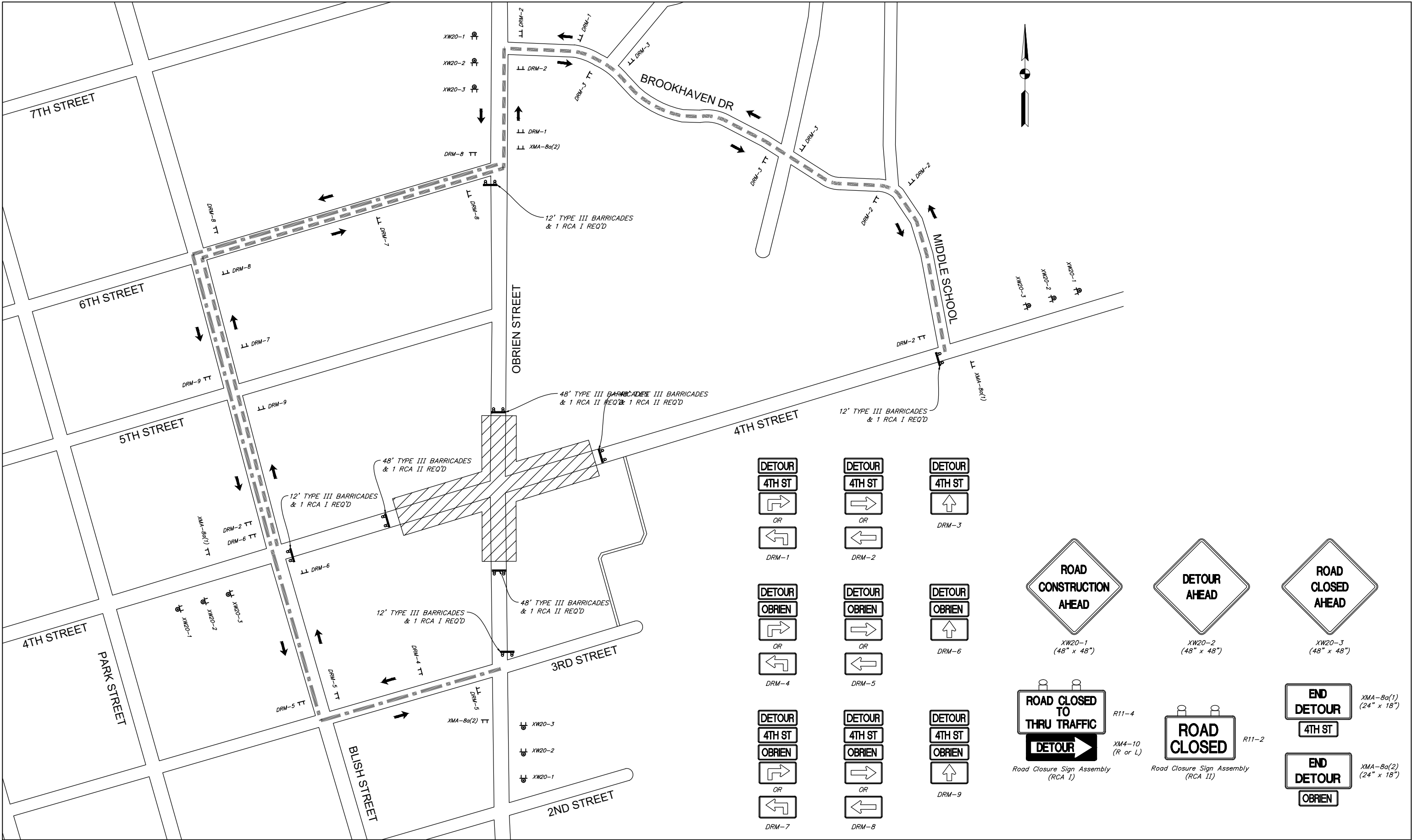
**SEH of Indiana**  
450 East 96th Street, Suite 500  
Indianapolis, IN 46240-3760  
Phone: 641.424.6344

|                          |                 |          |      |
|--------------------------|-----------------|----------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | XX/XX/XX | DATE |
| DESIGNED: JLS            | DRAWN: RSP      |          |      |
| CHECKED: KE              | CHECKED: PWS    |          |      |

|                                                         |
|---------------------------------------------------------|
| <b>INDIANA DEPARTMENT OF TRANSPORTATION</b>             |
| <b>TYPICAL SECTIONS</b>                                 |
| <b>4TH ST &amp; O'BRIEN ST INTERSECTION IMPROVEMENT</b> |

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1/4"=1'          | ---         |
| VERTICAL SCALE   | DESIGNATION |
| ---              | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 3 of 21     |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |

Save: 5/22/2020 1:38 PM rough Plot: 8/25/2021 5:02 PM X:\PT\SS\SE\N\14919305-final-dsgn\51-drawings\10-Civil\cad dwg\sheet1149193MOT.dwg



1

CONSTRUCTION SIGN

TYPE "A" CONSTRUCTION WARNING LIGHT

TYPE "B" CONSTRUCTION WARNING LIGHT

DIRECTION OF TRAFFIC

TYPE III-A/III-B BARRICADE

CONSTRUCTION AREA

4TH ST DETOUR ROUTE

OBRIEN ST DETOUR ROUTE

SEH of Indiana

450 East 96th Street, Suite 500  
Indianapolis, IN 46240-3760  
Phone: 641.424.6344

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER

XX/XX/XX

DATE

DESIGNED: JLS

DRAWN: RSP

CHECKED: KE

CHECKED: PWS

INDIANA DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

HORIZONTAL SCALE

1"=100'

VERTICAL SCALE

---

BRIDGE FILE

---

DESIGNATION

1703015

SURVEY BOOK

---

CONTRACT

R-40897

SHEETS

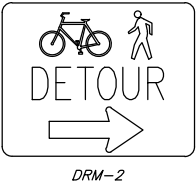
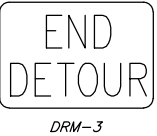
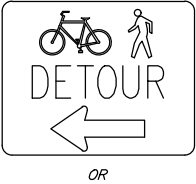
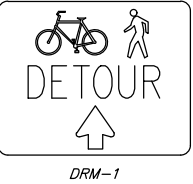
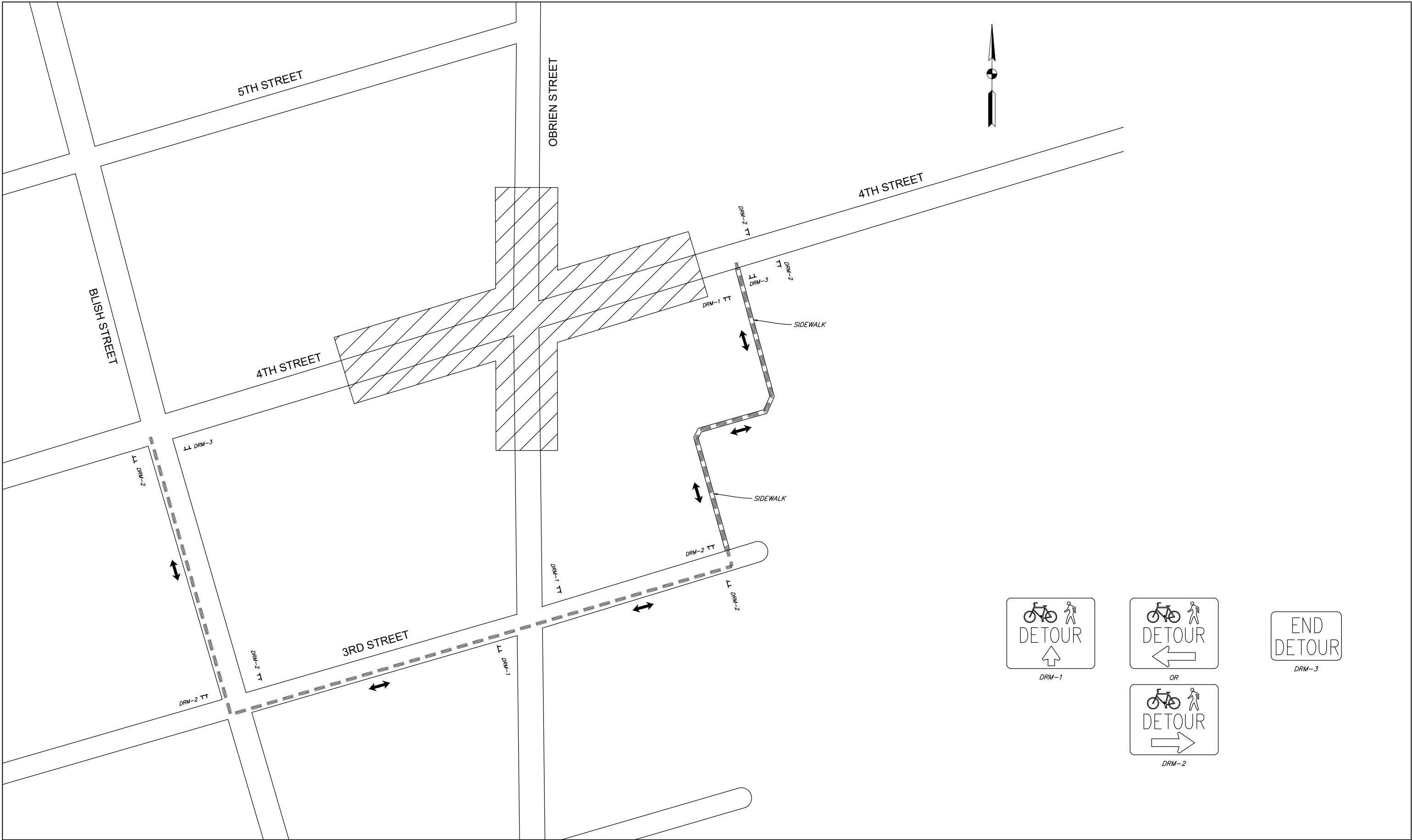
4 of 21

PROJECT

1703015



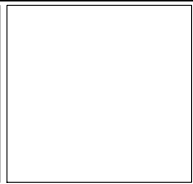
Save: 5/22/2020 1:38 PM rough Plot: 8/25/2021 5:02 PM X:\PT\SE\Y\N\14918305-final-dsgn\51-drawings\10-Civil\cad dwg\sheet1149193MOT.dwg



|  |                                     |  |                              |
|--|-------------------------------------|--|------------------------------|
|  | CONSTRUCTION SIGN                   |  | TYPE III-A/III-B BARRICADE   |
|  | TYPE "A" CONSTRUCTION WARNING LIGHT |  | CONSTRUCTION AREA            |
|  | TYPE "B" CONSTRUCTION WARNING LIGHT |  | BIKE/PEDESTRIAN TRAFFIC FLOW |
|  | DETOUR ROUTE                        |  |                              |



**SEH of Indiana**  
450 East 96th Street, Suite 500  
Indianapolis, IN 46240-3760  
Phone: 641.424.6344



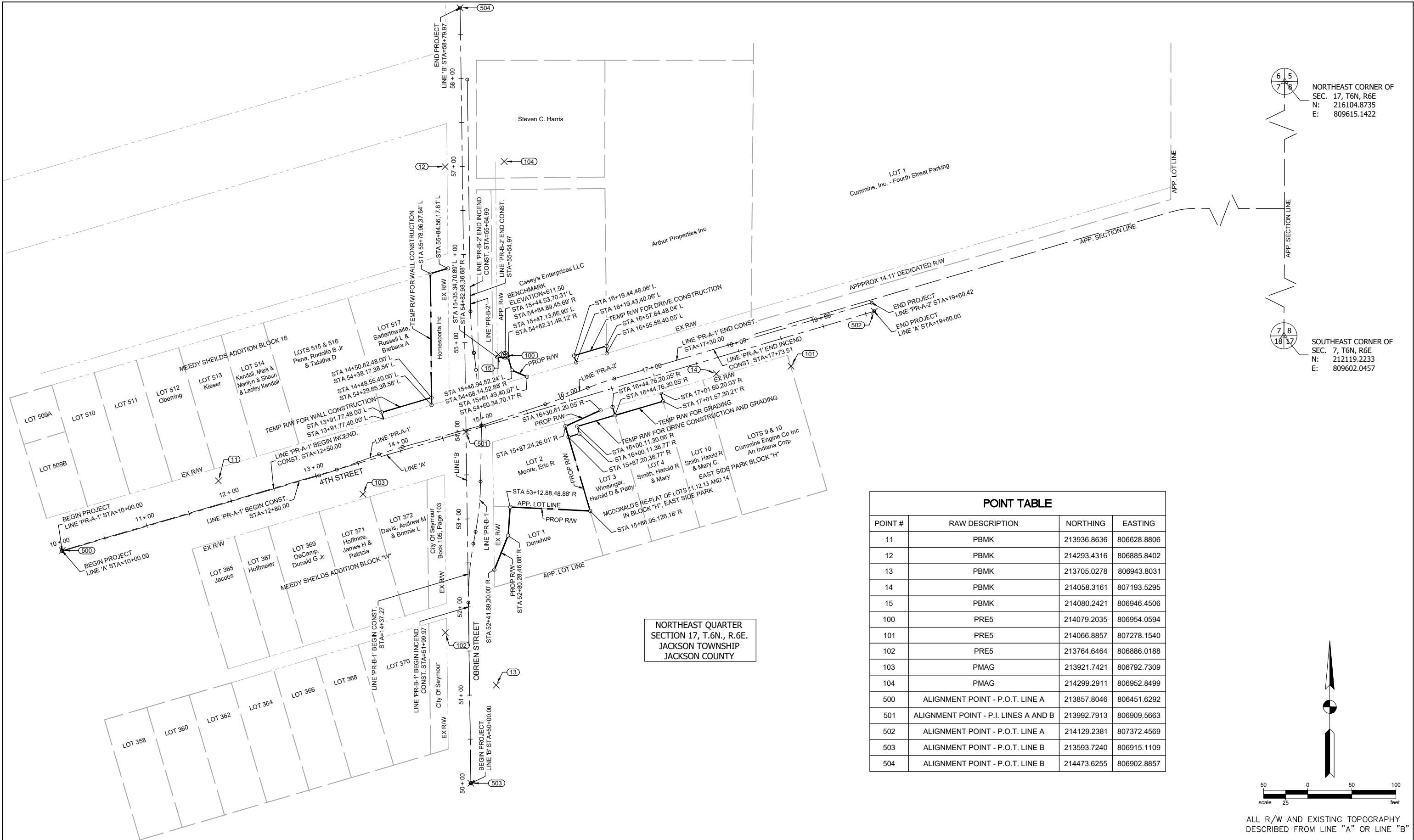
|                                                                 |                    |
|-----------------------------------------------------------------|--------------------|
| RECOMMENDED FOR APPROVAL _____<br>DESIGN ENGINEER DATE XX/XX/XX |                    |
| DESIGNED: _____ JLS                                             | DRAWN: _____ RSP   |
| CHECKED: _____ KE                                               | CHECKED: _____ PWS |

INDIANA DEPARTMENT OF  
TRANSPORTATION

4TH ST BIKE AND PEDESTRIAN DETOUR PLAN  
4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

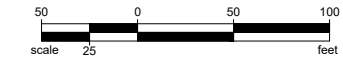
|                            |                        |
|----------------------------|------------------------|
| HORIZONTAL SCALE<br>1"=60' | BRIDGE FILE<br>---     |
| VERTICAL SCALE<br>---      | DESIGNATION<br>1703015 |
| SURVEY BOOK<br>---         | SHEETS<br>5 of 21      |
| CONTRACT<br>R-40897        | PROJECT<br>1703015     |

Save: 1/12/2020 12:20 PM ptepanovic Plot: 8/25/2021 5:03 PM X:\PT\SEY\N149193\5-final-dsgn\51-drawings\10-Civil\cad\dwg\street\149193PLAT1.dwg



NORTHEAST QUARTER  
SECTION 17, T.6N., R.6E.  
JACKSON TOWNSHIP  
JACKSON COUNTY

| POINT TABLE |                                      |             |             |
|-------------|--------------------------------------|-------------|-------------|
| POINT #     | RAW DESCRIPTION                      | NORTHING    | EASTING     |
| 11          | PBMK                                 | 213936.8636 | 806628.8806 |
| 12          | PBMK                                 | 214293.4316 | 806885.8402 |
| 13          | PBMK                                 | 213705.0278 | 806943.8031 |
| 14          | PBMK                                 | 214058.3161 | 807193.5295 |
| 15          | PBMK                                 | 214080.2421 | 806946.4506 |
| 100         | PRE5                                 | 214079.2035 | 806954.0594 |
| 101         | PRE5                                 | 214066.8857 | 807278.1540 |
| 102         | PRE5                                 | 213764.6464 | 806886.0188 |
| 103         | PMAG                                 | 213921.7421 | 806792.7309 |
| 104         | PMAG                                 | 214299.2911 | 806952.8499 |
| 500         | ALIGNMENT POINT - P.O.T. LINE A      | 213857.8046 | 806451.6292 |
| 501         | ALIGNMENT POINT - P.I. LINES A AND B | 213992.7913 | 806909.5663 |
| 502         | ALIGNMENT POINT - P.O.T. LINE A      | 214129.2381 | 807372.4569 |
| 503         | ALIGNMENT POINT - P.O.T. LINE B      | 213593.7240 | 806915.1109 |
| 504         | ALIGNMENT POINT - P.O.T. LINE B      | 214473.6255 | 806902.8857 |



ALL R/W AND EXISTING TOPOGRAPHY  
DESCRIBED FROM LINE "A" OR LINE "B"



RECOMMENDED  
FOR APPROVAL \_\_\_\_\_  
DESIGN ENGINEER \_\_\_\_\_  
DATE \_\_\_\_\_

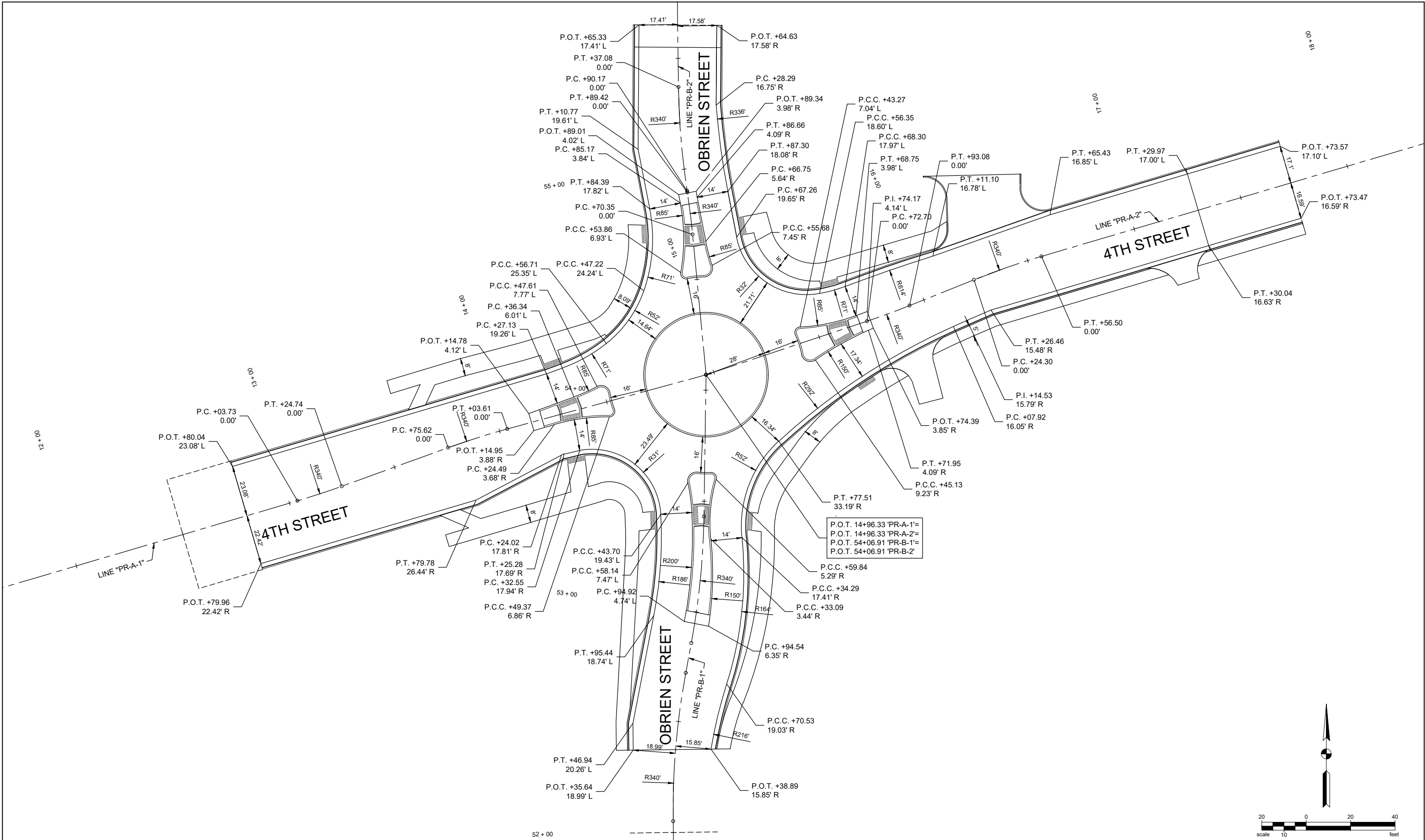
DESIGNED: \_\_\_\_\_ JLS \_\_\_\_\_  
DRAWN: \_\_\_\_\_ RSP \_\_\_\_\_  
CHECKED: \_\_\_\_\_ KE \_\_\_\_\_  
CHECKED: \_\_\_\_\_ PWS \_\_\_\_\_

INDIANA DEPARTMENT OF  
TRANSPORTATION

PLAT ONE  
4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=50'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| NONE             | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 6 of 21     |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |

Save: 8/25/2021 7:49 AM psepianovic Plot: 8/25/2021 5:05 PM X:\PT\SS\SEY\N149193\5-final-dsgn\51-drawings\10-Civil\ad\dwg\sheet149193GMP.dwg





**SEH of Indiana**  
450 East 96th Street, Suite 500  
Indianapolis, IN 46240-3760  
Phone: 641.424.6344

|                                     |              |
|-------------------------------------|--------------|
| RECOMMENDED FOR APPROVAL _____      |              |
| DESIGN ENGINEER _____ DATE XX/XX/XX |              |
| DESIGNED: JLS                       | DRAWN: RSP   |
| CHECKED: KE                         | CHECKED: PWS |

|                                         |
|-----------------------------------------|
| INDIANA DEPARTMENT OF<br>TRANSPORTATION |
|                                         |

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| ---              | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 7 of 21     |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |



| CONTROL LINE DATA - 'PR-A-1' |                 |          |             |             |          |          |          |              |         |        |         |
|------------------------------|-----------------|----------|-------------|-------------|----------|----------|----------|--------------|---------|--------|---------|
| POINT ID                     | BEARING         | DISTANCE | NORTHING    | EASTING     | PC       | PI       | PT       | DELTA        | RADIUS  | LENGTH | TANGENT |
| C1                           | N 73° 35' 50" E | 303.73'  | 213857.1907 | 806451.8101 |          | 10+00.00 |          |              |         |        |         |
| L1                           | N 71° 49' 35" E | 21.01    | 213942.9589 | 806743.1746 | 13+03.73 | 13+14.24 | 13+24.74 | 003° 32' 30" | 340.00' | 21.02' | 10.51   |
| L2                           | N 70° 03' 20" E | 50.88'   | 213949.5130 | 806763.1399 |          | 13+24.74 |          |              |         |        |         |
| C2                           | N 72° 24' 49" E | 27.98    | 213966.8692 | 806810.9700 | 13+75.62 | 13+89.63 | 14+03.61 | 004° 04' 28" | 340.00' | 27.99' | 14.00   |
| L3                           | N 74° 46' 18" E | 92.72'   | 213975.3227 | 806837.6410 |          | 14+03.61 |          |              |         |        |         |

| CONTROL LINE DATA - 'PR-B-1' |                 |          |             |             |          |          |          |              |         |        |         |
|------------------------------|-----------------|----------|-------------|-------------|----------|----------|----------|--------------|---------|--------|---------|
| POINT ID                     | BEARING         | DISTANCE | NORTHING    | EASTING     | PC       | PI       | PT       | DELTA        | RADIUS  | LENGTH | TANGENT |
| L4                           | N 00° 47' 46" W | 205.01'  | 213593.7244 | 806915.1409 |          | 50+00.00 |          |              |         |        |         |
| L3                           | N 04° 51' 51" E | 67.07    | 213798.7104 | 806912.2929 | 52+05.01 | 52+38.70 | 52+72.18 | 011° 19' 14" | 340.00' | 67.18' | 33.70   |
| L5                           | N 10° 31' 28" E | 136.1'   | 213865.5371 | 806917.9800 |          | 52+72.18 |          |              |         |        |         |
| C4                           | N 05° 41' 34" E | 57.28    | 213878.9195 | 806920.4662 | 52+85.79 | 53+14.54 | 53+43.14 | 009° 39' 49" | 340.00' | 57.34' | 28.74   |
| L6                           | N 05° 51' 40" E | 63.77'   | 213935.9139 | 806926.1477 |          | 53+43.14 |          |              |         |        |         |

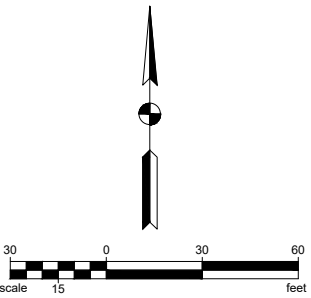
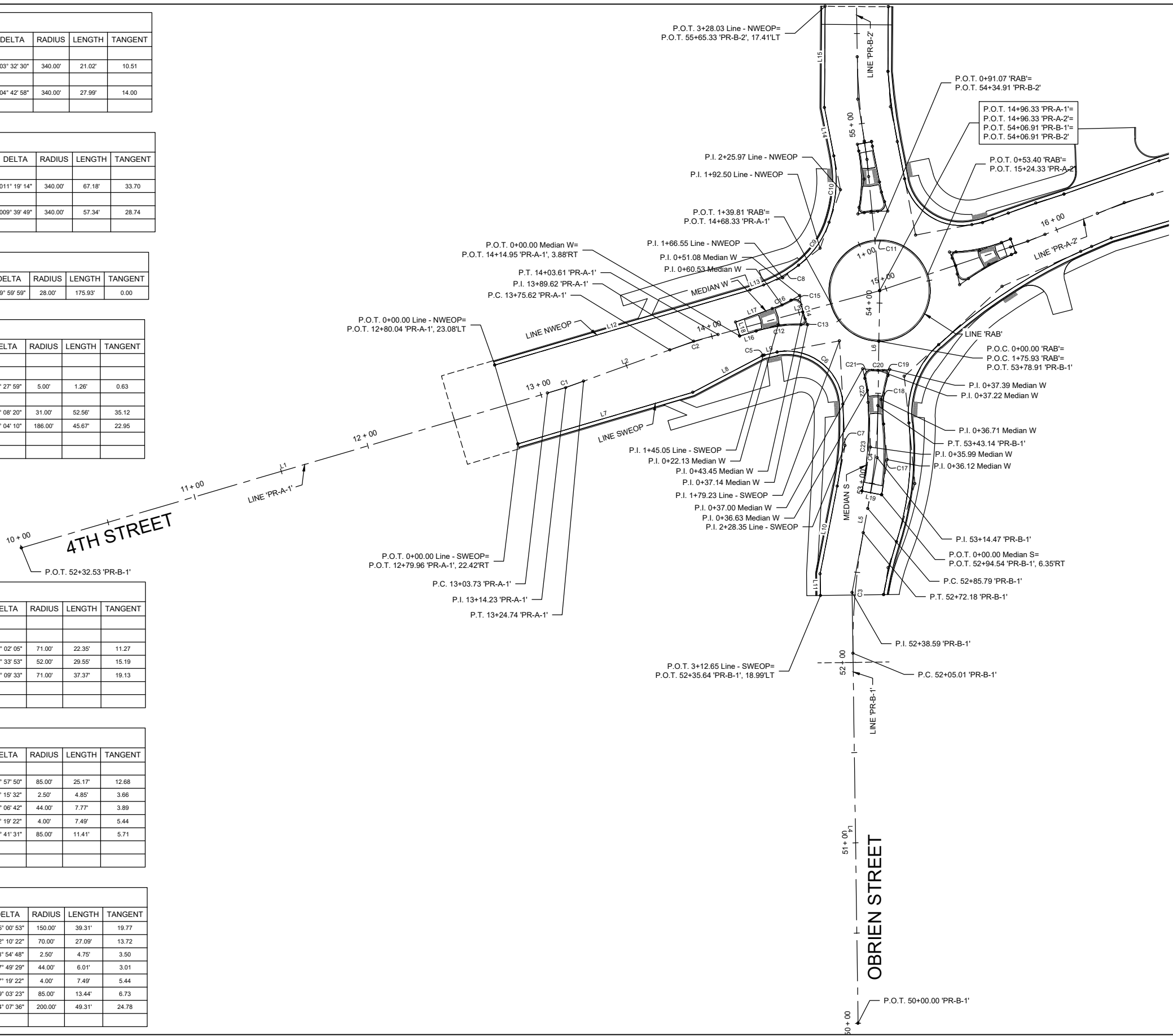
| CONTROL LINE DATA - 'RAB' |                 |          |             |             |          |          |         |              |        |         |         |
|---------------------------|-----------------|----------|-------------|-------------|----------|----------|---------|--------------|--------|---------|---------|
| POINT ID                  | BEARING         | DISTANCE | NORTHING    | EASTING     | PC       | PI       | PT      | DELTA        | RADIUS | LENGTH  | TANGENT |
| C11                       | N 89° 08' 20" W | 0.00     | 213971.6802 | 806926.6852 | -0+00.00 | -0+00.00 | 1+75.93 | 359° 59' 59" | 28.00' | 175.93' | 0.00    |

| CONTROL LINE DATA - LINE - SWEOP |                 |          |             |             |         |         |         |              |         |        |         |
|----------------------------------|-----------------|----------|-------------|-------------|---------|---------|---------|--------------|---------|--------|---------|
| POINT ID                         | BEARING         | DISTANCE | NORTHING    | EASTING     | PC      | PI      | PT      | DELTA        | RADIUS  | LENGTH | TANGENT |
| L7                               | N 73° 34' 22" E | 101.02'  | 213914.7378 | 806726.7068 |         | 0+00.00 |         |              |         |        |         |
| L8                               | N 62° 15' 47" E | 43.40'   | 213943.3049 | 806823.6004 |         | 1+01.02 |         |              |         |        |         |
| C5                               | N 69° 29' 46" E | 1.26     | 213963.5041 | 806862.0137 | 1+44.42 | 1+45.05 | 1+45.68 | 014° 27' 59" | 5.00'   | 1.26'  | 0.63    |
| L9                               | N 76° 43' 46" E | 7.27'    | 213963.9451 | 806863.1930 |         | 1+45.68 |         |              |         |        |         |
| C6                               | S 51° 38' 54" E | 46.48    | 213965.6144 | 806870.2709 | 1+52.95 | 1+58.08 | 2+05.51 | 097° 08' 20" | 31.00'  | 52.56' | 35.12   |
| C7                               | S 03° 57' 21" W | 45.56    | 213936.7711 | 806906.7252 | 2+05.51 | 2+28.46 | 2+51.18 | 014° 04' 10" | 186.00' | 45.67' | 22.95   |
| L10                              | S 10° 59' 26" W | 49.45'   | 213891.3209 | 806903.5823 |         | 2+51.18 |         |              |         |        |         |
| L11                              | S 00° 43' 23" E | 12.02'   | 213842.7788 | 806894.1551 |         | 3+00.63 |         |              |         |        |         |

| CONTROL LINE DATA - LINE - NWEOP |                 |          |             |             |         |         |         |              |        |        |         |
|----------------------------------|-----------------|----------|-------------|-------------|---------|---------|---------|--------------|--------|--------|---------|
| POINT ID                         | BEARING         | DISTANCE | NORTHING    | EASTING     | PC      | PI      | PT      | DELTA        | RADIUS | LENGTH | TANGENT |
| L12                              | N 73° 34' 22" E | 147.35'  | 213958.4083 | 806713.9341 |         | 0+00.00 |         |              |        |        |         |
| L13                              | N 68° 45' 32" E | 8.02'    | 214000.0795 | 806855.2736 |         | 1+47.35 |         |              |        |        |         |
| C8                               | N 60° 44' 29" E | 22.26    | 214002.8547 | 806862.7996 | 1+55.38 |         | 1+77.72 | 018° 02' 05" | 71.00' | 22.35' | 11.27   |
| C9                               | N 35° 26' 30" E | 29.16    | 214013.7324 | 806882.2165 | 1+77.72 | 1+92.91 | 2+07.28 | 032° 33' 53" | 52.00' | 29.55' | 15.19   |
| C10                              | N 04° 04' 47" E | 36.94    | 214037.4881 | 806899.1248 | 2+07.28 | 2+26.41 | 2+44.65 | 030° 09' 33" | 71.00' | 37.37' | 19.13   |
| L14                              | N 10° 59' 59" W | 27.31'   | 214074.3372 | 806901.7531 |         | 2+44.65 |         |              |        |        |         |
| L15                              | N 00° 21' 06" E | 56.06'   | 214101.1474 | 806896.5419 |         | 2+71.96 |         |              |        |        |         |

| CONTROL LINE DATA - MEDIAN W |                 |          |             |             |          |          |          |              |        |        |         |
|------------------------------|-----------------|----------|-------------|-------------|----------|----------|----------|--------------|--------|--------|---------|
| POINT ID                     | BEARING         | DISTANCE | NORTHING    | EASTING     | PC       | PI       | PT       | DELTA        | RADIUS | LENGTH | TANGENT |
| L16                          | N 73° 34' 22" E | 9.55'    | 213974.5583 | 806849.8002 |          | 0+00.00  |          |              |        |        |         |
| C12                          | N 82° 03' 17" E | 25.07    | 213977.2580 | 806858.7568 | +0+09.55 | +0+22.22 | +0+34.71 | 016° 57' 50" | 85.00' | 25.17' | 12.68   |
| C13                          | N 34° 54' 27" E | 4.13     | 213980.7239 | 806883.5907 | +0+34.71 | +0+38.37 | +0+39.57 | 111° 15' 32" | 2.50'  | 4.85'  | 3.66    |
| C14                          | N 15° 39' 58" W | 7.76     | 213984.1084 | 806885.9524 | +0+39.57 | +0+43.46 | +0+47.33 | 010° 06' 42" | 44.00' | 7.77'  | 3.89    |
| C15                          | N 64° 16' 18" W | 6.44     | 213991.5754 | 806883.8583 | +0+47.33 | +0+52.77 | +0+54.83 | 107° 19' 22" | 4.00'  | 7.49'  | 5.44    |
| C16                          | S 65° 54' 47" W | 11.40    | 213994.3729 | 806878.0529 | +0+54.83 | +0+60.54 | +0+66.24 | 007° 41' 31" | 85.00' | 11.41' | 5.71    |
| L17                          | S 66° 45' 32" W | 21.64'   | 213989.7193 | 806867.6432 |          | 0+66.24  |          |              |        |        |         |
| L18                          | S 16° 25' 38" E | 8.00'    | 213982.2318 | 806847.3378 |          | 0+87.88  |          |              |        |        |         |

| CONTROL LINE DATA - MEDIAN S |                 |          |             |             |          |          |          |               |         |        |         |
|------------------------------|-----------------|----------|-------------|-------------|----------|----------|----------|---------------|---------|--------|---------|
| POINT ID                     | BEARING         | DISTANCE | NORTHING    | EASTING     | PC       | PI       | PT       | DELTA         | RADIUS  | LENGTH | TANGENT |
| C17                          | N 01° 33' 12" E | 39.20    | 213886.5357 | 806928.2220 | +0+00.00 | 0+19.77  | +0+39.31 | 015° 00' 53"  | 150.00' | 39.31' | 19.77   |
| C18                          | N 05° 07' 56" E | 26.92    | 213925.7176 | 806929.2844 | +0+39.31 | +0+53.02 | +0+66.40 | 022° 10' 22"  | 70.00'  | 27.09' | 13.72   |
| C19                          | N 38° 14' 17" W | 4.07     | 213952.5302 | 806931.6926 | +0+66.40 | +0+69.90 | +0+71.15 | 108° 54' 48"  | 2.50'   | 4.75'  | 3.50    |
| C20                          | N 88° 46' 56" W | 6.44     | 213955.7257 | 806929.1746 | +0+71.15 | +0+74.16 | +0+77.16 | 007° 49' 29"  | 44.00'  | 6.01'  | 3.01    |
| C21                          | S 41° 28' 07" W | 6.00     | 213955.8533 | 806929.1746 | +0+77.16 | +0+82.60 | +0+84.65 | 107° 19' 122" | 4.00'   | 7.49'  | 5.44    |
| C22                          | S 07° 39' 52" E | 13.42    | 213951.0246 | 806918.9042 | +0+84.65 | +0+91.38 | +0+98.09 | 009° 03' 23"  | 85.00'  | 13.44' | 6.73    |
| C23                          | S 03° 55' 38" W | 49.19    | 213937.7231 | 806920.6942 | +0+98.09 | +1+22.87 | +1+47.40 | 014° 07' 36"  | 200.00' | 49.31' | 24.78   |
| L19                          | S 79° 00' 34" E | 11.10'   | 213886.6519 | 806917.3255 |          | +1+47.40 |          |               |         |        |         |



RECOMMENDED FOR APPROVAL \_\_\_\_\_ XX/XX/XX  
DESIGN ENGINEER DATE

|                      |                   |
|----------------------|-------------------|
| DESIGNED: <u>JLS</u> | DRAWN: <u>RSP</u> |
|----------------------|-------------------|

|                    |                     |
|--------------------|---------------------|
| CHECKED: <u>KE</u> | CHECKED: <u>PWS</u> |
|--------------------|---------------------|

**INDIANA DEPARTMENT OF  
TRANSPORTATION**

## GEOMETRIC TIE-UP

### 4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

|                  |  |             |    |
|------------------|--|-------------|----|
| HORIZONTAL SCALE |  | BRIDGE FILE |    |
| 1"=30'           |  | ---         |    |
| VERTICAL SCALE   |  | DESIGNATION |    |
| ---              |  | 1703015     |    |
| SURVEY BOOK      |  | SHEETS      |    |
| ---              |  | 8           | 21 |
| CONTRACT         |  | PROJECT     |    |
| R-40897          |  | 1703015     |    |



| CONTROL LINE DATA - MEDIAN N |                 |          |             |             |         |         |         |              |        |        |         |
|------------------------------|-----------------|----------|-------------|-------------|---------|---------|---------|--------------|--------|--------|---------|
| POINT ID                     | BEARING         | DISTANCE | NORTHING    | EASTING     | PC      | PI      | PT      | DELTA        | RADIUS | LENGTH | TANGENT |
| L39                          | N 10° 59' 59" W | 3.80'    | 214077.0084 | 806915.4959 |         | 0+85.46 |         |              |        |        |         |
| L38                          | N 79° 00' 01" E | 8.01'    | 214080.7430 | 806914.7700 |         | 0+89.26 |         |              |        |        |         |
| L41                          | S 10° 48' 39" E | 2.72'    | 214082.2714 | 806922.6334 |         | 0+00.00 |         |              |        |        |         |
| L40                          | S 10° 59' 59" E | 20.19'   | 214079.6020 | 806923.1415 |         | 0+02.72 |         |              |        |        |         |
| C46                          | S 14° 47' 00" E | 11.22    | 214059.7858 | 806926.9933 | 0+22.90 | 0+28.53 | 0+34.13 | 007° 34' 01" | 85.00' | 11.23' | 5.62    |
| C45                          | S 35° 05' 41" W | 6.44     | 214048.9394 | 806929.8556 | 0+34.13 | 0+39.57 | 0+41.62 | 107° 19' 22" | 4.00'  | 7.49'  | 5.44    |
| C44                          | S 83° 50' 35" W | 7.54     | 214043.6667 | 806926.1507 | 0+41.62 | 0+45.40 | 0+49.17 | 009° 49' 33" | 44.00' | 7.55'  | 3.78    |
| C43                          | N 45° 26' 28" W | 4.13     | 214042.8584 | 806918.6577 | 0+49.17 | 0+52.82 | 0+54.02 | 111° 15' 32" | 2.50'  | 4.85'  | 3.66    |
| C42                          | N 00° 24' 19" W | 31.26    | 214045.7541 | 806915.7171 | 0+54.02 | 0+69.92 | 0+85.46 | 021° 11' 19" | 85.00' | 31.43' | 15.90   |

|                             |              |          |  |
|-----------------------------|--------------|----------|--|
| RECOMMENDED<br>FOR APPROVAL |              | XX/XX/XX |  |
| DESIGN ENGINEER             |              | DATE     |  |
| DESIGNED: JLS               | DRAWN: RSP   |          |  |
| CHECKED: KE                 | CHECKED: PWS |          |  |

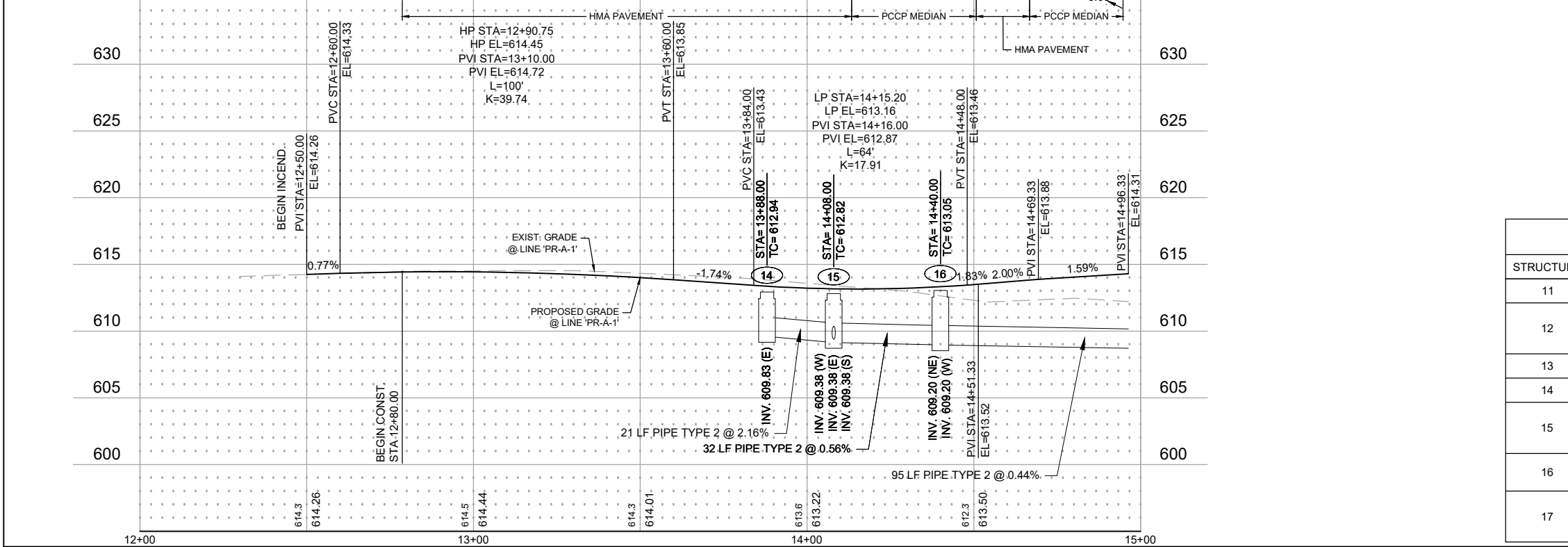
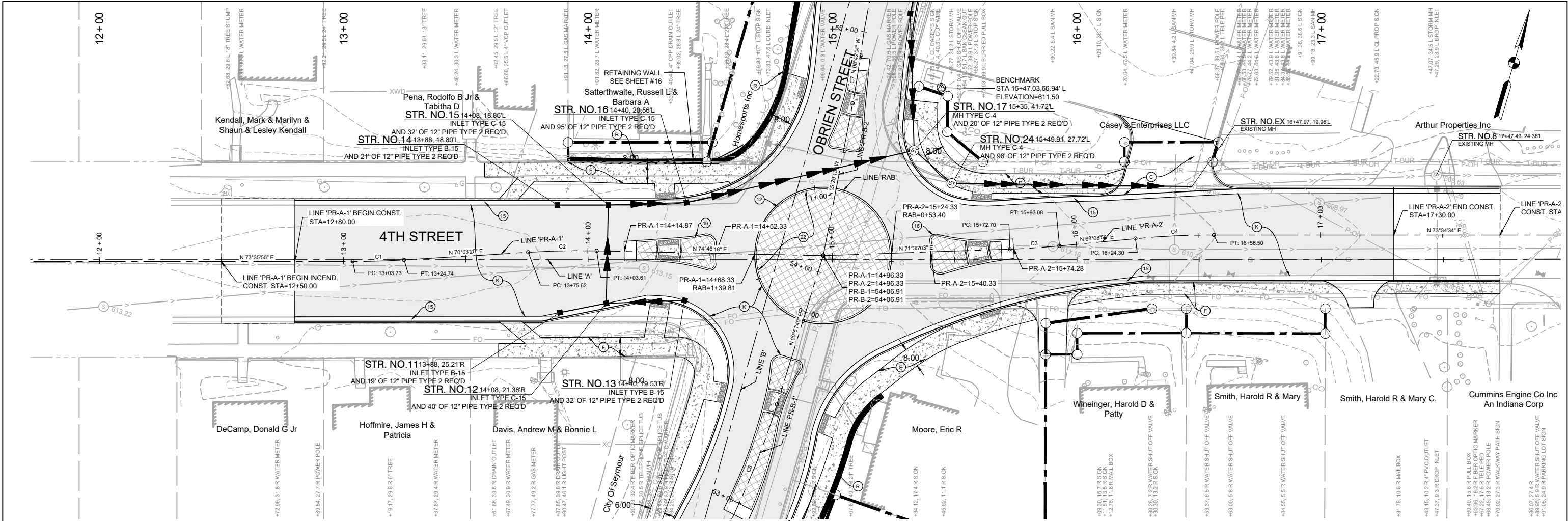
## GEOMETRIC TIE-UP

### 4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

|                  |             |    |    |
|------------------|-------------|----|----|
| HORIZONTAL SCALE | BRIDGE FILE |    |    |
| 1"=30'           | ---         |    |    |
| VERTICAL SCALE   | DESIGNATION |    |    |
| ---              | 1703015     |    |    |
| SURVEY BOOK      | SHEETS      |    |    |
| --               | 9           | of | 21 |
| CONTRACT         | PROJECT     |    |    |
| R-40897          | 1703015     |    |    |



Save: 8/24/2021 5:35 PM psepapanovic Plot: 8/25/2021 5:10 PM X:\PT\SEY\IN\149193\5-final-dsgn\5-1-drawings\1D-Civil\cad\dwg\sheet\149193PP-4th Street.dwg



STATION/OFFSET BASED OFF LINE 'A'  
LINE 'A' STATIONING SHOWN AT TOP OF PLAN VIEW  
PROFILE CUT ALONG LINE 'PR-A-1'

| CURVE TABLE |         |        |          |                 |              |
|-------------|---------|--------|----------|-----------------|--------------|
| CURVE       | RADIUS  | LENGTH | DELTA    | CHORD DIRECTION | CHORD LENGTH |
| C1          | 340.00' | 21.02' | 3°32'30" | N71° 49' 35"E   | 21.01        |
| C2          | 340.00' | 27.99' | 4°42'58" | N72° 24' 49"E   | 27.98        |

| STORM SEWER STRUCTURE SCHEDULE |                 |          |           |          |         |           |                                                |
|--------------------------------|-----------------|----------|-----------|----------|---------|-----------|------------------------------------------------|
| STRUCTURE                      | TYPE            | RIM ELEV | ALIGNMENT | STATION  | OFFSET  | DRAINS TO | INVERT ELEV                                    |
| 11                             | INLET TYPE B-15 | 612.88   | 'PR-A-1'  | 13+88.00 | 25.21'R | 12        | NE 12"=609.71                                  |
| 12                             | INLET TYPE C-15 | 612.75   | 'PR-A-1'  | 14+08.00 | 21.36'R | 15        | SW 12"=609.58<br>E 12"=609.58<br>N 12"=609.58  |
| 13                             | INLET TYPE B-15 | 613.00   | 'PR-A-1'  | 14+40.00 | 19.53'R | 12        | W 12"=609.74                                   |
| 14                             | INLET TYPE B-15 | 612.94   | 'PR-A-1'  | 13+88.00 | 18.80'L | 15        | E 12"=609.83                                   |
| 15                             | INLET TYPE C-15 | 612.82   | 'PR-A-1'  | 14+08.00 | 18.86'L | 16        | W 12"=609.38<br>E 12"=609.38<br>S 12"=609.38   |
| 16                             | INLET TYPE C-15 | 613.05   | 'PR-A-1'  | 14+40.00 | 20.56'L | 17        | NE 12"=609.20<br>W 12"=609.20                  |
| 17                             | MH TYPE C-4     | 613.53   | 'PR-A-2'  | 15+35.00 | 41.72'L | 24        | SE 12"=608.25<br>SW 12"=608.78<br>N 12"=608.20 |

- C

9 IN. PCCP FOR APPROACHES
- F

4 IN. CONC SIDEWALK
- K

HMA PAVEMENT
- R

MODULAR BLOCK WALL (SEE SHEETS 16 - 18)
- 12

MODIFIED INTEGRAL CONCRETE CURB TYPE B
- 15

COMBINED CURB & GUTTER
- 22

9" PCC, ON 5" COMPACTED AGGREGATE, NO. 53, ON SUBGRADE TREATMENT TYPE 1B
- 26

SODDING



SEH of Indiana

450 East 96th Street, Suite 500  
Indianapolis, IN 46240-3760  
Phone: 641.424.6344

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER

DATE

DESIGNED: JLS

DRAWN: RSP

CHECKED: KE

CHECKED: PWS

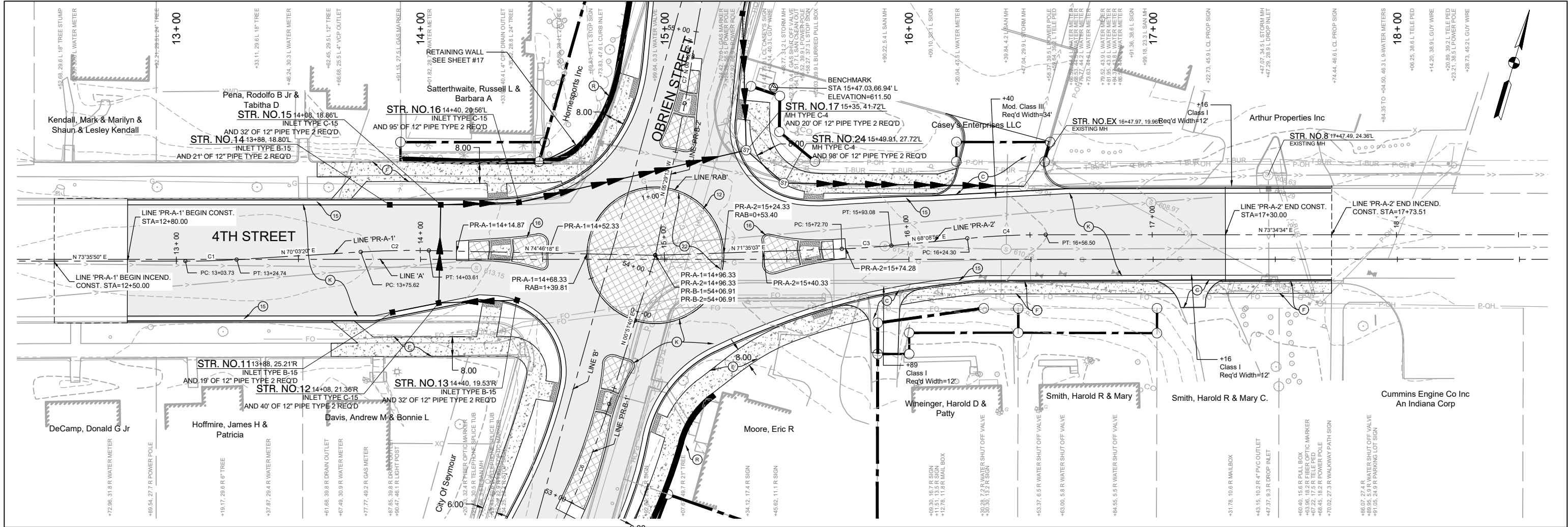
INDIANA DEPARTMENT OF TRANSPORTATION

4TH STREET PLAN AND PROFILE - LINE 'PR-A-1'

4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

| HORIZONTAL SCALE |  | BRIDGE FILE |  |
|------------------|--|-------------|--|
| 1"=20'           |  | ---         |  |
| VERTICAL SCALE   |  | DESIGNATION |  |
| 1"=5'            |  | 1703015     |  |
| SURVEY BOOK      |  | SHEETS      |  |
| ---              |  | 10 of 21    |  |
| CONTRACT         |  | PROJECT     |  |
| R-40897          |  | 1703015     |  |

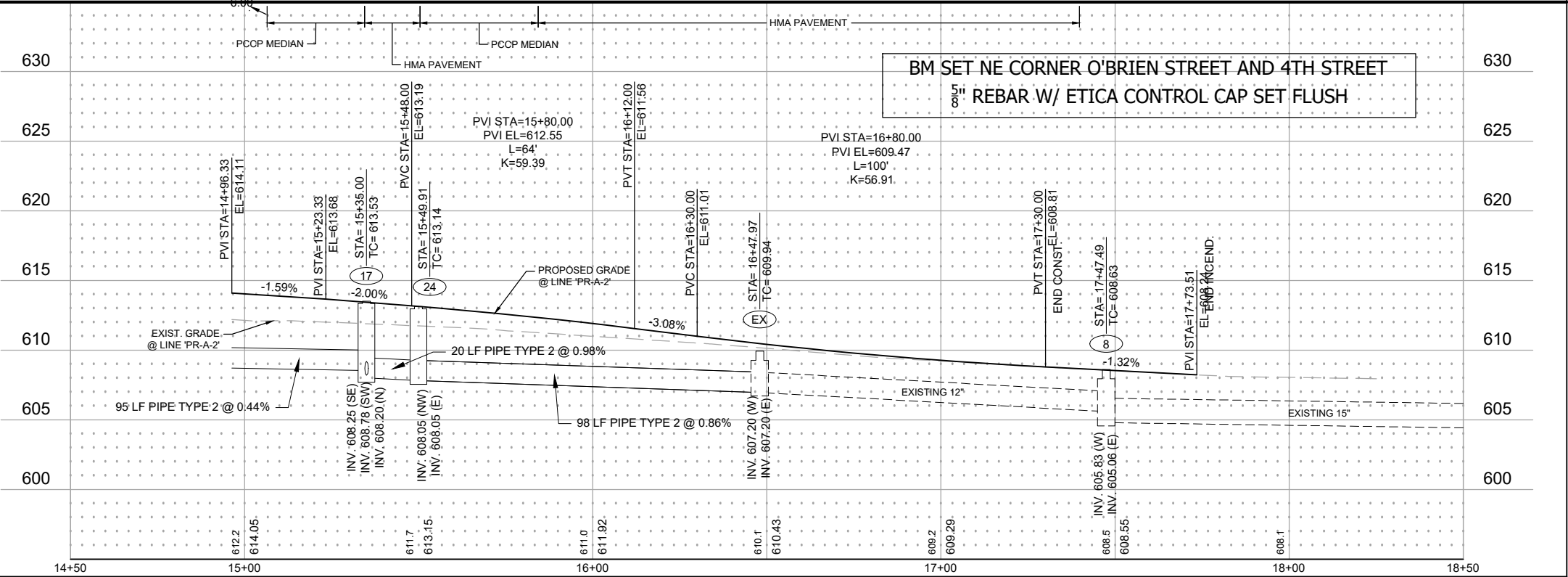
Save: 8/24/2021 5:35 PM psepapanovic Plot: 8/25/2021 5:11 PM X:\PT\S\SEY\N149\193\5-final-dsgn\5-1-drawings\1D-Civil\dwg\sheet149193PP-4th Street.dwg



STATION/OFFSET BASED OFF LINE 'A'  
LINE 'A' STATIONING SHOWN AT TOP OF PLAN VIEW  
PROFILE CUT ALONG LINE 'PR-A-2'

| CURVE TABLE |         |        |          |                 |              |
|-------------|---------|--------|----------|-----------------|--------------|
| CURVE       | RADIUS  | LENGTH | DELTA    | CHORD DIRECTION | CHORD LENGTH |
| C3          | 340.00' | 20.39' | 3°26'07" | N69° 51' 59"E   | 20.38        |
| C4          | 340.00' | 32.21' | 5°25'38" | N70° 51' 45"E   | 32.19        |

| STORM SEWER STRUCTURE SCHEDULE |             |          |           |          |         |           |                                                |
|--------------------------------|-------------|----------|-----------|----------|---------|-----------|------------------------------------------------|
| STRUCTURE                      | TYPE        | RIM ELEV | ALIGNMENT | STATION  | OFFSET  | DRAINS TO | INVERT ELEV                                    |
| EX                             | EXISTING MH | 609.94   | 'PR-A-2'  | 16+47.97 | 19.96'L | 8         | W 12"=607.20<br>E 12"=607.20                   |
| 8                              | EXISTING MH | 608.63   | 'PR-A-2'  | 17+47.49 | 24.36'L | 9         | W 12"=605.83<br>E 15"=605.06                   |
| 9                              | EXISTING MH | 607.16   | 'PR-A-2'  | 21+48.36 | 25.36'L |           | W 15"=603.60                                   |
| 17                             | MH TYPE C-4 | 613.53   | 'PR-A-2'  | 15+35.00 | 41.72'L | 24        | SE 12"=608.25<br>SW 12"=608.78<br>N 12"=608.20 |
| 24                             | MH TYPE C-4 | 613.14   | 'PR-A-2'  | 15+49.91 | 27.72'L | EX        | NW 12"=608.05<br>E 12"=608.05                  |



|                               |                                                                               |
|-------------------------------|-------------------------------------------------------------------------------|
| (C) 9 IN. PCCP FOR APPROACHES | (R) MODULAR BLOCK WALL (SEE SHEETS 16 - 18)                                   |
| (F) 4 IN. CONC SIDEWALK       | (12) MODIFIED INTEGRAL CONCRETE CURB TYPE B                                   |
| (K) HMA PAVEMENT              | (15) COMBINED CURB & GUTTER                                                   |
|                               | (22) 9" PCC, ON 5" COMPACTED AGGREGATE, NO. 53, ON SUBGRADE TREATMENT TYPE 1B |
|                               | (26) SODDING                                                                  |



**SEH of Indiana**  
450 East 96th Street, Suite 500  
Indianapolis, IN 46240-3760  
Phone: 641.424.6344

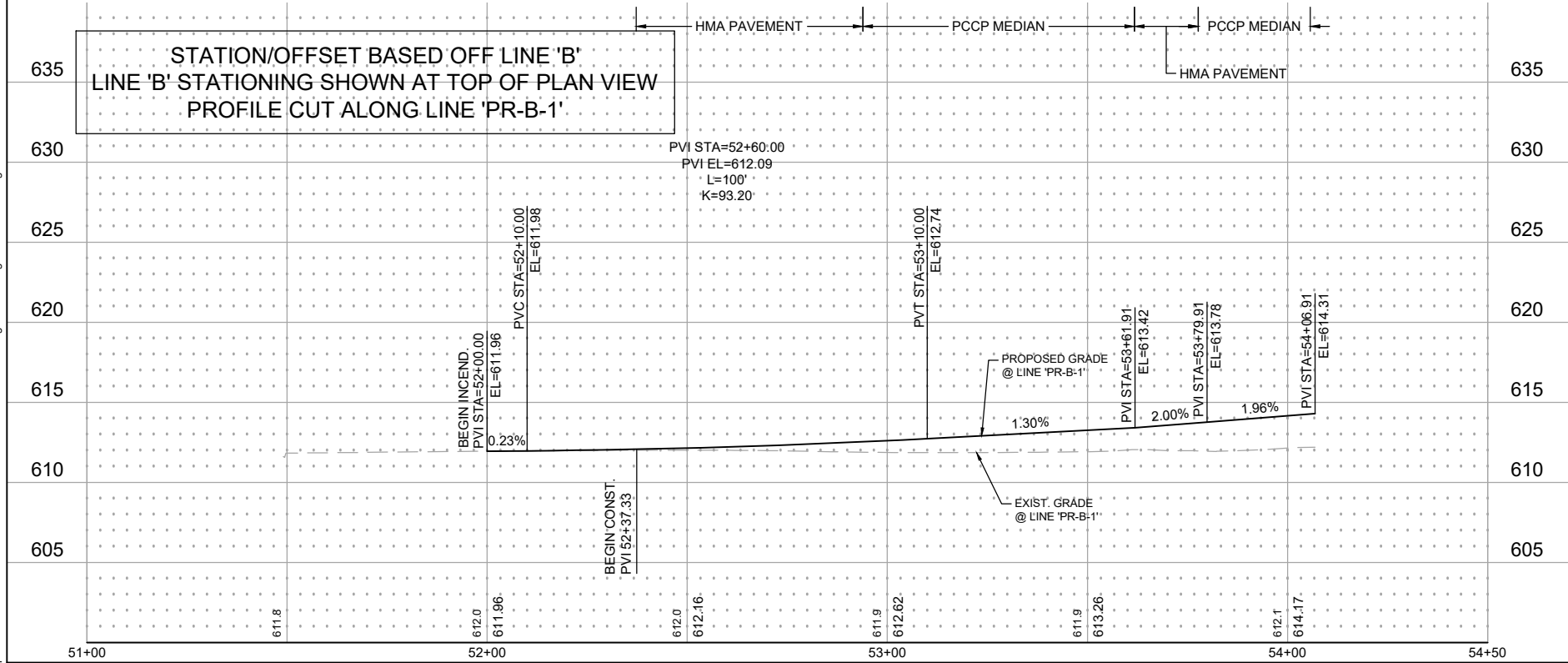
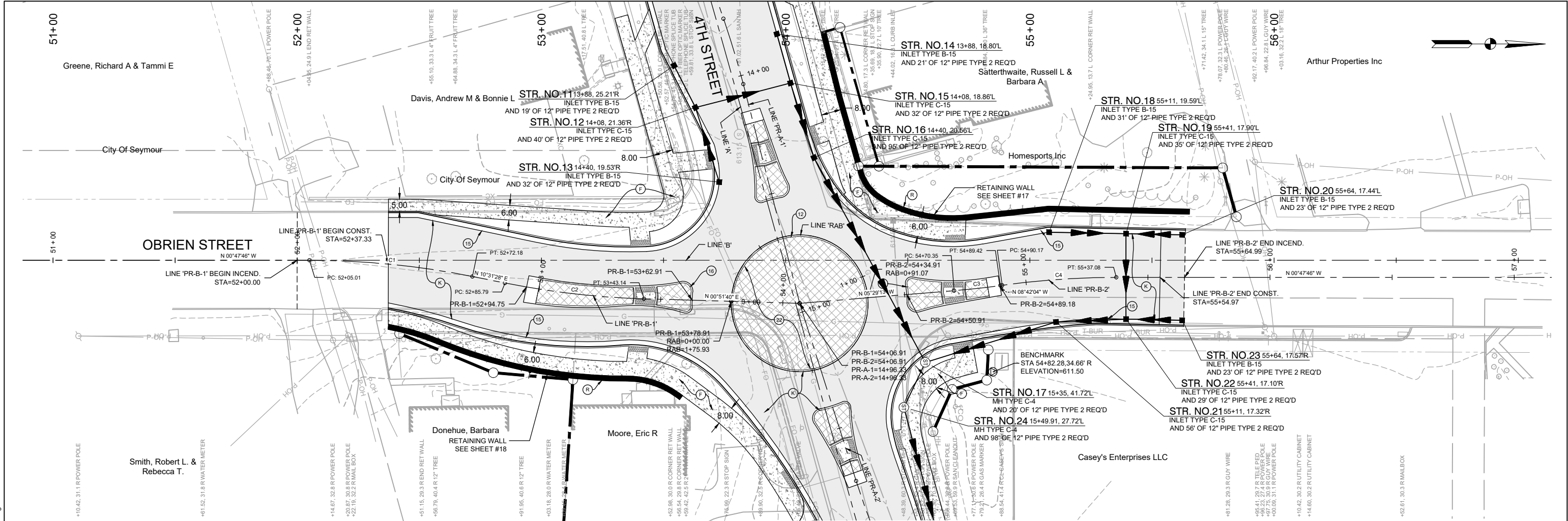
|                          |                 |          |      |
|--------------------------|-----------------|----------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | XX/XX/XX | DATE |
| DESIGNED: JLS            | DRAWN: RSP      |          |      |
| CHECKED: KE              | CHECKED: PWS    |          |      |

**INDIANA DEPARTMENT OF TRANSPORTATION**

4TH STREET PLAN AND PROFILE - LINE 'PR-A-2'  
4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

|                            |                        |
|----------------------------|------------------------|
| HORIZONTAL SCALE<br>1"=20' | BRIDGE FILE<br>---     |
| VERTICAL SCALE<br>1"=5'    | DESIGNATION<br>1703015 |
| SURVEY BOOK<br>---         | SHEETS<br>11 of 21     |
| CONTRACT<br>R-40897        | PROJECT<br>1703015     |

Save: 8/24/2021 5:36 PM psepapovic Plot: 8/25/2021 5:22 PM X:\PT\SEY\IN149193\5-final-dsgn\5-1-drawings\10-Civil\cadd\dwg\sheet149193PP-OBRIEN STREET.dwg



BM SET NE CORNER O'BRIEN STREET AND 4TH STREET  
5/8" REBAR W/ ETICA CONTROL CAP SET FLUSH

| CURVE TABLE |         |        |           |                 |              |
|-------------|---------|--------|-----------|-----------------|--------------|
| CURVE       | RADIUS  | LENGTH | DELTA     | CHORD DIRECTION | CHORD LENGTH |
| C1          | 340.00' | 67.18' | 11°19'14" | N04° 51' 51"E   | 67.07        |
| C2          | 340.00' | 57.34' | 9°39'49"  | N05° 41' 34"E   | 57.28        |

| STORM SEWER STRUCTURE SCHEDULE |                 |          |           |          |         |           |                                                |
|--------------------------------|-----------------|----------|-----------|----------|---------|-----------|------------------------------------------------|
| STRUCTURE                      | TYPE            | RIM ELEV | ALIGNMENT | STATION  | OFFSET  | DRAINS TO | INVERT ELEV                                    |
| 17                             | MH TYPE C-4     | 613.53   | 'PR-A-2'  | 15+35.00 | 41.72'L | 24        | SE 12"=608.25<br>SW 12"=608.78<br>N 12"=608.20 |
| 18                             | INLET TYPE B-15 | 612.23   | 'PR-B-2'  | 55+11.00 | 19.59'L | 19        | N 12"=609.83                                   |
| 19                             | INLET TYPE C-15 | 612.13   | 'PR-B-2'  | 55+41.00 | 17.90'L | 22        | E 12"=608.90<br>S 12"=608.90<br>N 12"=608.90   |
| 20                             | INLET TYPE B-15 | 612.16   | 'PR-B-2'  | 55+64.00 | 17.44'L | 19        | S 12"=608.98                                   |
| 21                             | INLET TYPE C-15 | 612.25   | 'PR-B-2'  | 55+11.00 | 17.32'R | 17        | N 12"=608.64<br>S 12"=608.64                   |
| 22                             | INLET TYPE C-15 | 612.14   | 'PR-B-2'  | 55+41.00 | 17.10'R | 21        | W 12"=608.78<br>S 12"=608.78<br>N 12"=608.78   |
| 23                             | INLET TYPE B-15 | 612.16   | 'PR-B-2'  | 55+64.00 | 17.57'R | 22        | S 12"=609.05                                   |
| 24                             | MH TYPE C-4     | 613.14   | 'PR-A-2'  | 15+49.91 | 27.72'L | EX        | NW 12"=608.05<br>E 12"=608.05                  |

|                               |                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------|
| (C) 9 IN. PCCP FOR APPROACHES | (R) MODULAR BLOCK WALL (SEE SHEETS 16 - 18)                                      |
| (F) 4 IN. CONC SIDEWALK       | (12) MODIFIED INTEGRAL CONCRETE CURB TYPE B                                      |
| (K) HMA PAVEMENT              | (15) COMBINED CURB & GUTTER                                                      |
|                               | (22) 9" PCC, ON 5" COMPACTED AGGREGATE, NO. 53,<br>ON SUBGRADE TREATMENT TYPE 1B |
|                               | (26) SODDING                                                                     |



**SEH of Indiana**  
450 East 96th Street, Suite 500  
Indianapolis, IN 46240-3760  
Phone: 641.424.6344

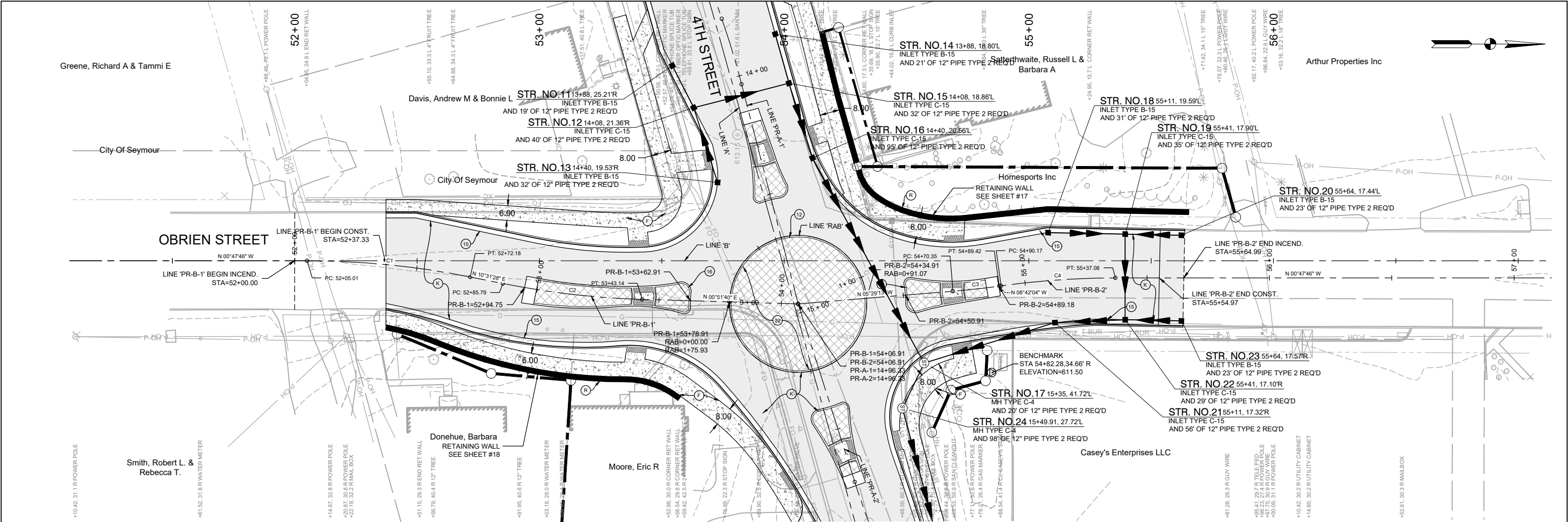
|                          |                 |          |      |
|--------------------------|-----------------|----------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | XX/XX/XX | DATE |
| DESIGNED: JLS            | DRAWN: RSP      |          |      |
| CHECKED: KE              | CHECKED: PWS    |          |      |

**INDIANA DEPARTMENT OF TRANSPORTATION**

**O'BRIEN STREET PLAN AND PROFILE**  
**4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT**

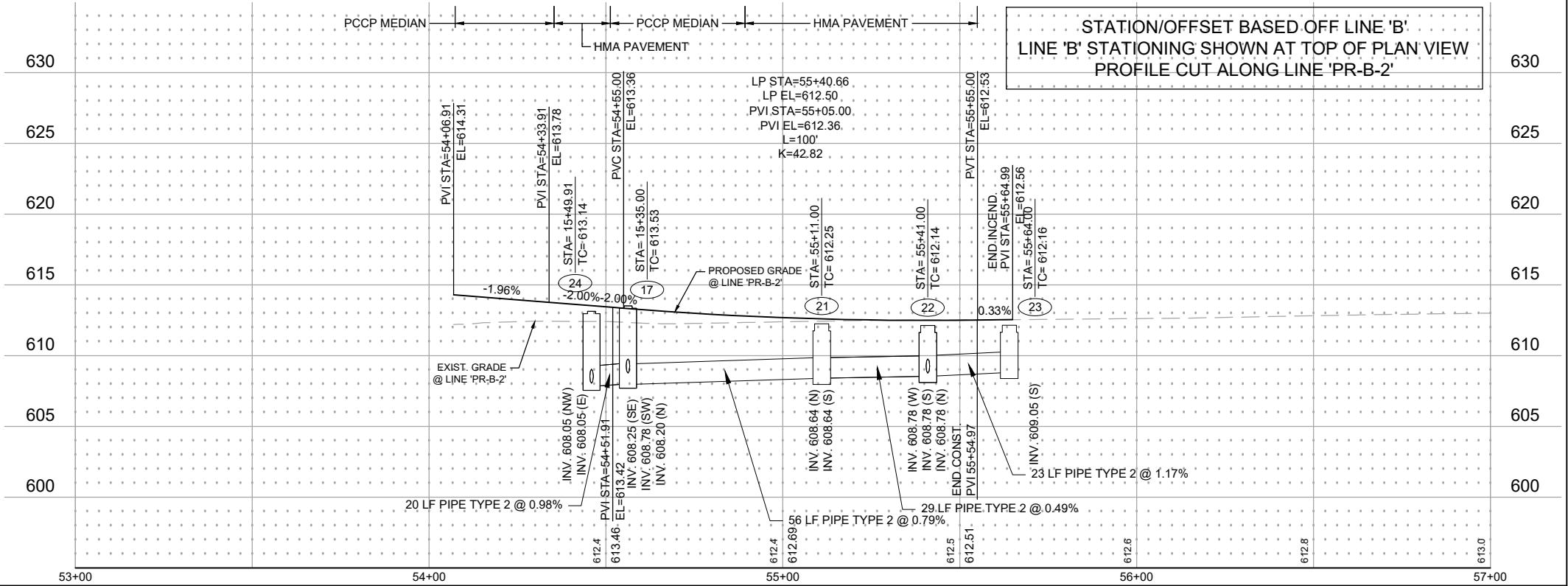
|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| 1"=5'            | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 12 of 21    |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |

Save: 8/24/2021 5:36 PM psepapovic Plot: 9/25/2021 5:22 PM X:\PT\SE\YIM149\193\5-final-dsgn\5-1-drawings\10-Civil\caddwg\sheet149193PP-OBRIEN STREET.dwg



| CURVE TABLE |         |        |          |                 |              |
|-------------|---------|--------|----------|-----------------|--------------|
| CURVE       | RADIUS  | LENGTH | DELTA    | CHORD DIRECTION | CHORD LENGTH |
| C3          | 340.00' | 19.07' | 3°12'51" | N07° 05' 38"W   | 19.07        |
| C4          | 340.00' | 46.91' | 7°54'18" | N04° 44' 55"W   | 46.87        |

| STORM SEWER STRUCTURE SCHEDULE |                 |          |           |          |         |           |                                                |
|--------------------------------|-----------------|----------|-----------|----------|---------|-----------|------------------------------------------------|
| STRUCTURE                      | TYPE            | RIM ELEV | ALIGNMENT | STATION  | OFFSET  | DRAINS TO | INVERT ELEV                                    |
| 17                             | MH TYPE C-4     | 613.53   | 'PR-A-2'  | 15+35.00 | 41.72'L | 24        | SE 12"=608.25<br>SW 12"=608.78<br>N 12"=608.20 |
| 18                             | INLET TYPE B-15 | 612.23   | 'PR-B-2'  | 55+11.00 | 19.59'L | 19        | N 12"=609.83                                   |
| 19                             | INLET TYPE C-15 | 612.13   | 'PR-B-2'  | 55+41.00 | 17.90'L | 22        | E 12"=608.90<br>S 12"=608.90<br>N 12"=608.90   |
| 20                             | INLET TYPE B-15 | 612.16   | 'PR-B-2'  | 55+64.00 | 17.44'L | 19        | S 12"=608.98                                   |
| 21                             | INLET TYPE C-15 | 612.25   | 'PR-B-2'  | 55+11.00 | 17.32'R | 17        | N 12"=608.64<br>S 12"=608.64                   |
| 22                             | INLET TYPE C-15 | 612.14   | 'PR-B-2'  | 55+41.00 | 17.10'R | 21        | W 12"=608.78<br>S 12"=608.78<br>N 12"=608.78   |
| 23                             | INLET TYPE B-15 | 612.16   | 'PR-B-2'  | 55+64.00 | 17.57'R | 22        | S 12"=609.05                                   |
| 24                             | MH TYPE C-4     | 613.14   | 'PR-A-2'  | 15+49.91 | 27.72'L | EX        | NW 12"=608.05<br>E 12"=608.05                  |



|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| 9 IN. PCCP FOR APPROACHES | MODULAR BLOCK WALL (SEE SHEETS 16 - 18)                                  |
| 4 IN. CONC SIDEWALK       | MODIFIED INTEGRAL CONCRETE CURB TYPE B                                   |
| HMA PAVEMENT              | COMBINED CURB & GUTTER                                                   |
|                           | 9" PCC, ON 5" COMPACTED AGGREGATE, NO. 53, ON SUBGRADE TREATMENT TYPE 1B |
|                           | SODDING                                                                  |



**SEH of Indiana**  
450 East 96th Street, Suite 500  
Indianapolis, IN 46240-3760  
Phone: 641.424.6344

|                          |                 |          |      |
|--------------------------|-----------------|----------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | XX/XX/XX | DATE |
| DESIGNED: JLS            | DRAWN: RSP      |          |      |
| CHECKED: KE              | CHECKED: PWS    |          |      |

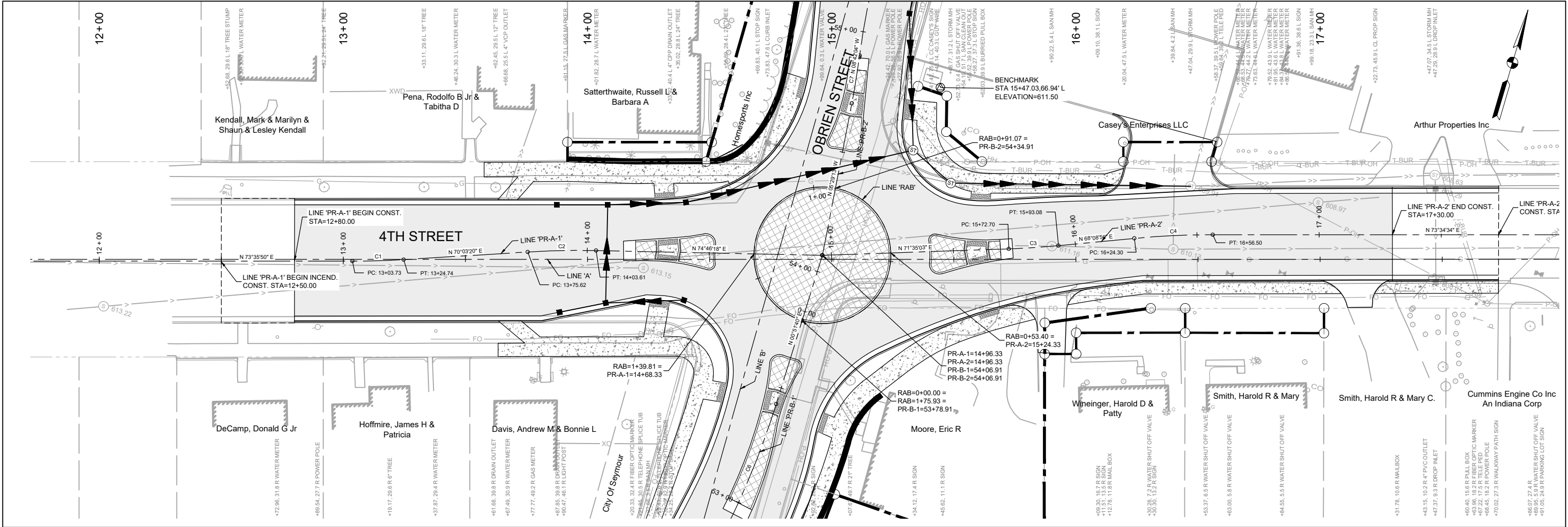
**INDIANA DEPARTMENT OF TRANSPORTATION**

**OBRIEN STREET PLAN AND PROFILE**  
**4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT**

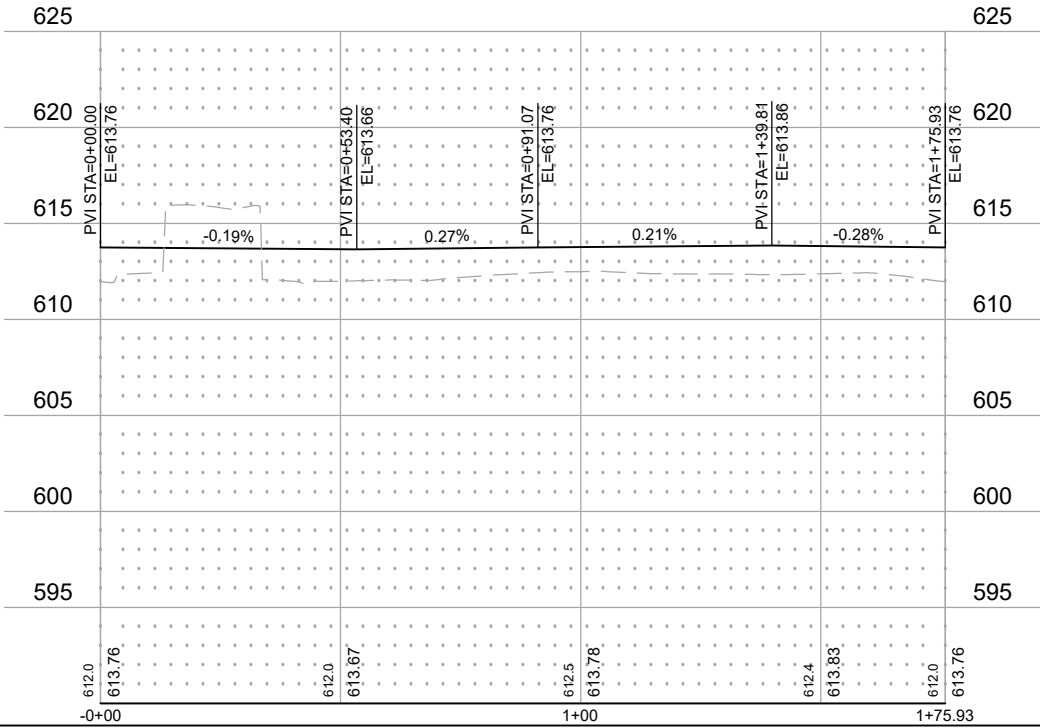
|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| 1"=5'            | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 13 of 21    |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |



Save: 12/14/2020 10:31 AM ptepanovic Plot: 8/25/2021 5:25 PM X:\PT\SS\SE\N149193\5-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet149193PF-RAB.dwg



STATION/OFFSET BASED OFF LINE 'A'  
LINE 'A' STATIONING SHOWN AT TOP OF PLAN VIEW  
PROFILE CUT ALONG LINE 'PR-A-1'



| CURVE TABLE |         |        |          |                 |              |
|-------------|---------|--------|----------|-----------------|--------------|
| CURVE       | RADIUS  | LENGTH | DELTA    | CHORD DIRECTION | CHORD LENGTH |
| C1          | 340.00' | 21.02' | 3°32'30" | N71° 49' 35"E   | 21.01        |
| C2          | 340.00' | 27.99' | 4°42'58" | N72° 24' 49"E   | 27.98        |
| C3          | 340.00' | 20.39' | 3°26'07" | N69° 51' 59"E   | 20.38        |
| C4          | 340.00' | 32.21' | 5°25'38" | N70° 51' 45"E   | 32.19        |

- (C) 9 IN. PCCP FOR APPROACHES
- (F) 4 IN. CONC SIDEWALK
- (K) HMA PAVEMENT

- (R) MODULAR BLOCK WALL (SEE SHEETS 16 - 18)
- (12) MODIFIED INTEGRAL CONCRETE CURB TYPE B
- (15) COMBINED CURB & GUTTER
- (22) 9" PCC, ON 5" COMPACTED AGGREGATE, NO. 53, ON SUBGRADE TREATMENT TYPE 1B
- (26) SODDING



RECOMMENDED  
FOR APPROVAL \_\_\_\_\_  
DESIGN ENGINEER \_\_\_\_\_  
DATE \_\_\_\_\_

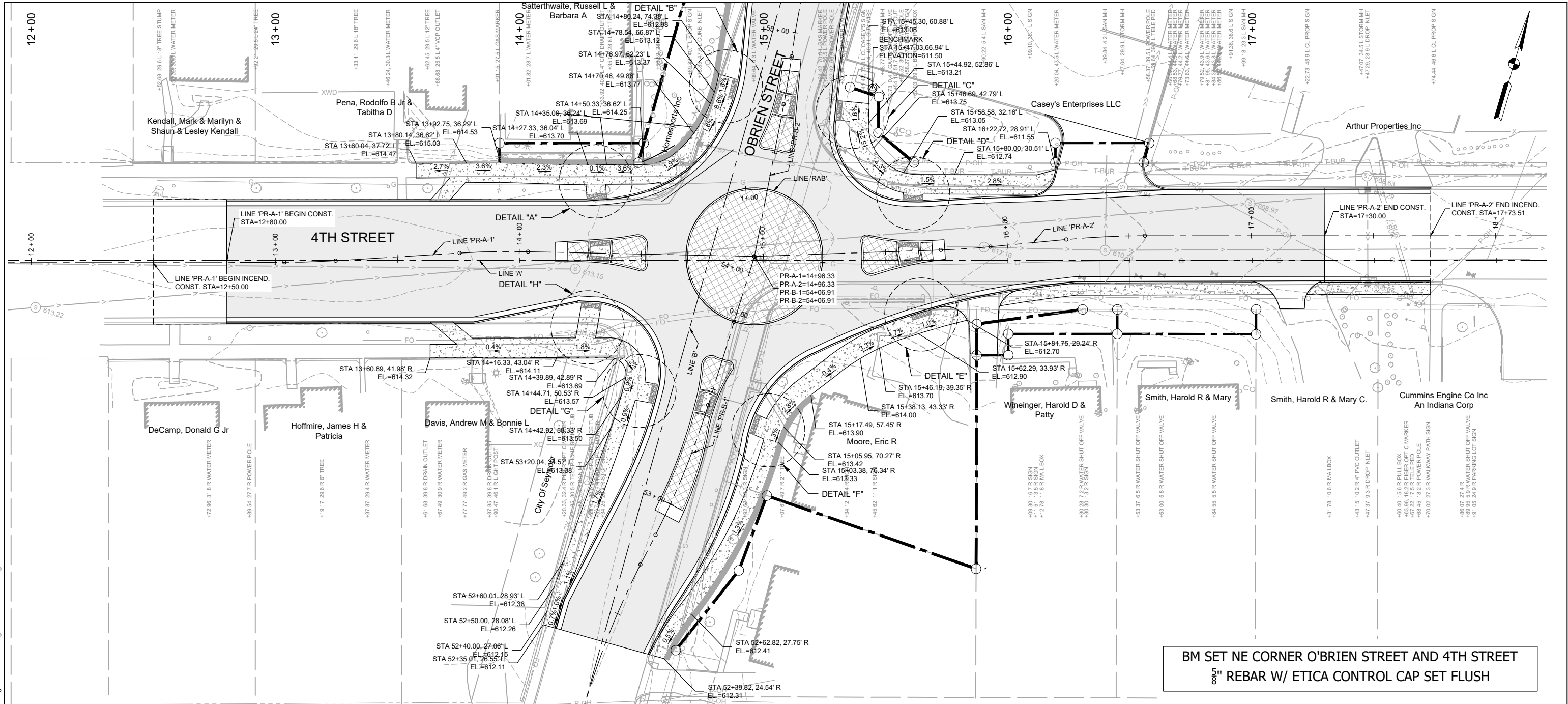
DESIGNED: \_\_\_\_\_ JLS  
DRAWN: \_\_\_\_\_ RSP  
CHECKED: \_\_\_\_\_ KE  
CHECKED: \_\_\_\_\_ PWS

INDIANA DEPARTMENT OF  
TRANSPORTATION

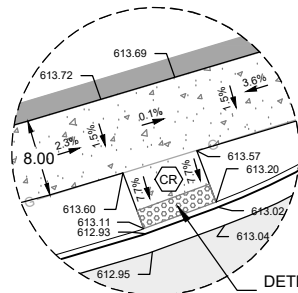
RAB PLAN AND PROFILE - LINE 'PR-A-1'  
4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| 1"=5'            | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | ---- of 21  |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |

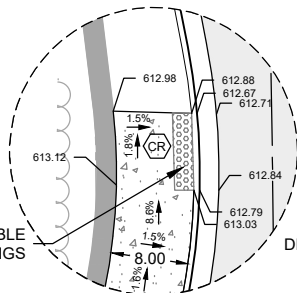
Save: 8/25/2021 2:11 PM psepapanic Plot: 8/25/2021 5:30 PM X:\PT\SE\IN\149193\5-final-dsgn\51-drawings\10-Civil\cadd\dwg\sheet149193P3.dwg



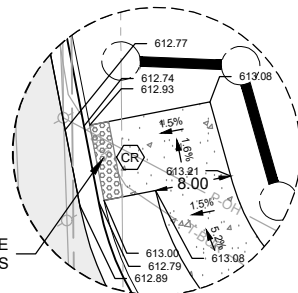
BM SET NE CORNER O'BRIEN STREET AND 4TH STREET  
5" REBAR W/ ETICA CONTROL CAP SET FLUSH



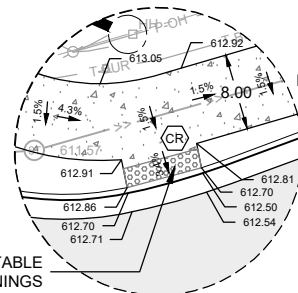
DETAIL "A"  
SCALE: 1"=10'



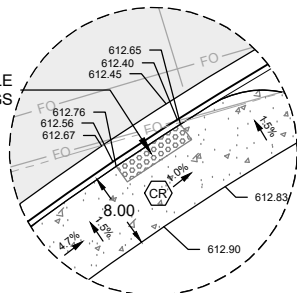
DETAIL "B"  
SCALE: 1"=10'



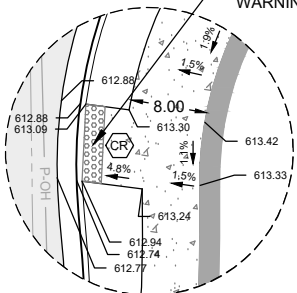
DETAIL "C"  
SCALE: 1"=10'



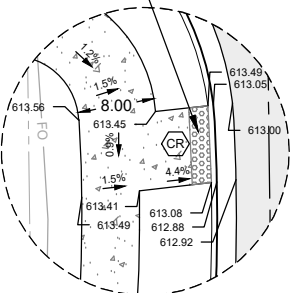
DETAIL "D"  
SCALE: 1"=10'



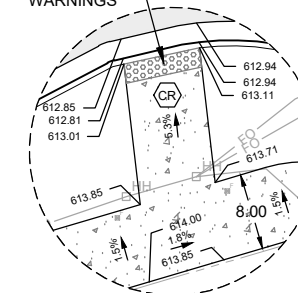
DETAIL "E"  
SCALE: 1"=10'



DETAIL "F"  
SCALE: 1"=10'



DETAIL "G"  
SCALE: 1"=10'



DETAIL "H"  
SCALE: 1"=10'

- (C) 9 IN. PCCP FOR APPROACHES
- (F) 4 IN. CONC SIDEWALK
- (K) HMA PAVEMENT

- (R) MODULAR BLOCK WALL (SEE SHEETS 16 - 18)
- (12) MODIFIED INTEGRAL CONCRETE CURB TYPE B
- (15) COMBINED CURB & GUTTER
- (22) 9" PCC, ON 5" COMPACTED AGGREGATE, NO. 53, ON SUBGRADE TREATMENT TYPE 1B
- (26) SODDING



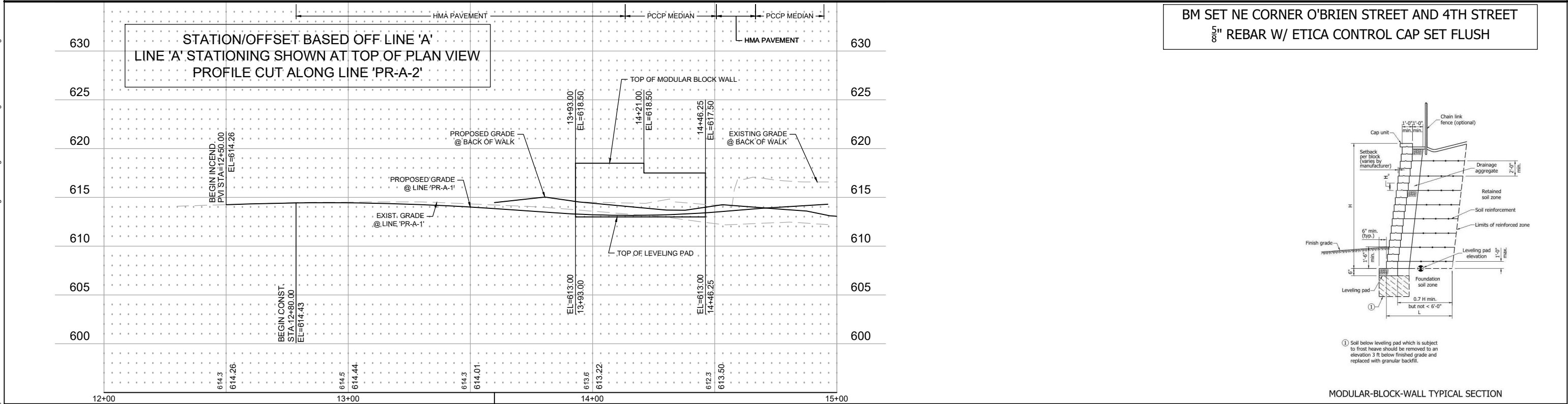
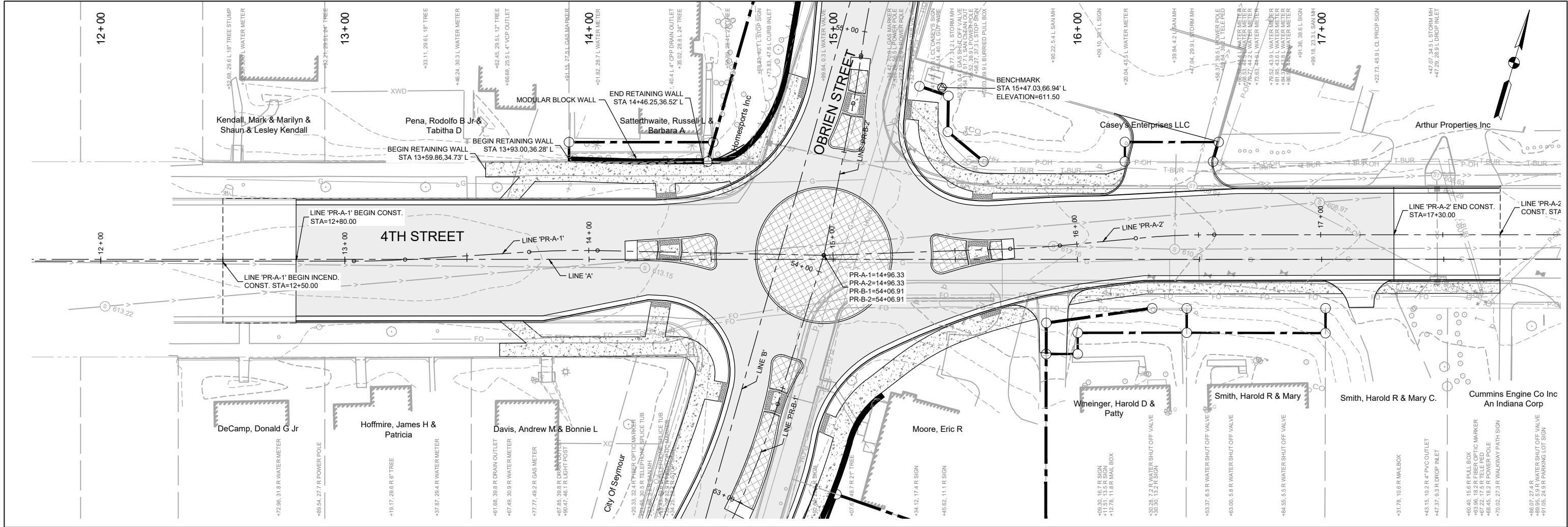
|                          |                 |      |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: JLS            | DRAWN: RSP      |      |
| CHECKED: KE              | CHECKED: PWS    |      |

|                                              |
|----------------------------------------------|
| INDIANA DEPARTMENT OF TRANSPORTATION         |
| CURB RAMP DETAILS                            |
| 4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT |

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| NONE             | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 15 of 21    |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |

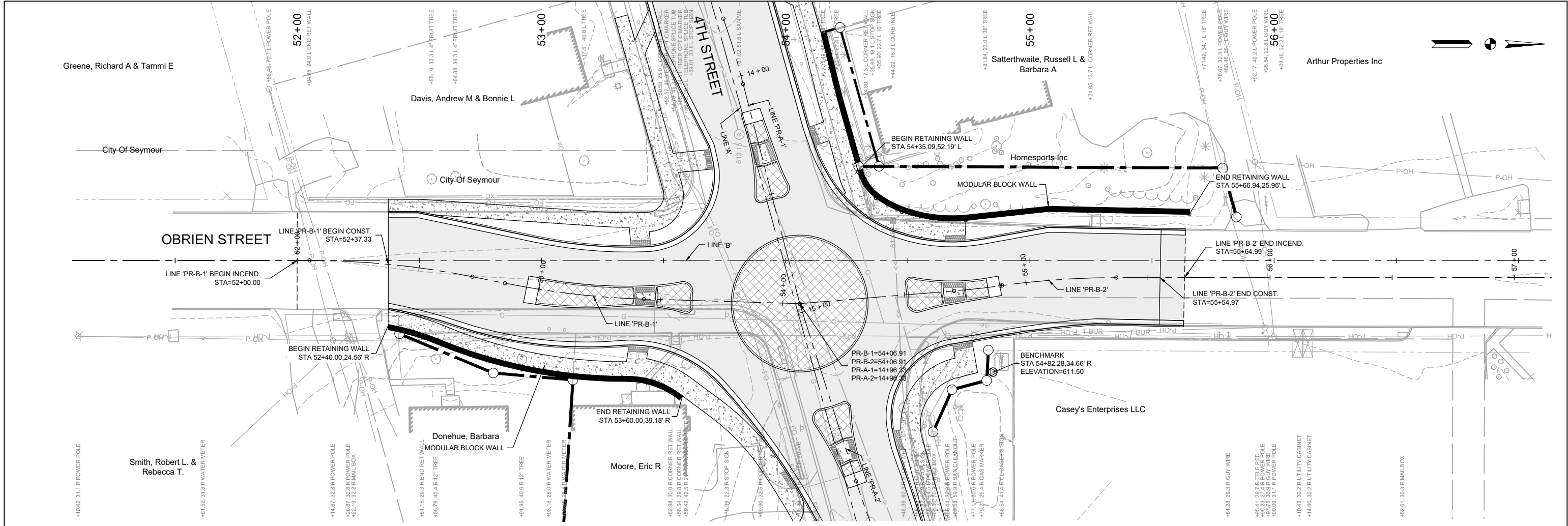


Save: 8/25/2021 2:31 PM psepapanovic Plot: 8/25/2021 5:34 PM X:\PT\SEY\IN149\193\5-final-dsgn\5-1-drawings\1D-Civil\cad\dwg\sheet149193P1.dwg

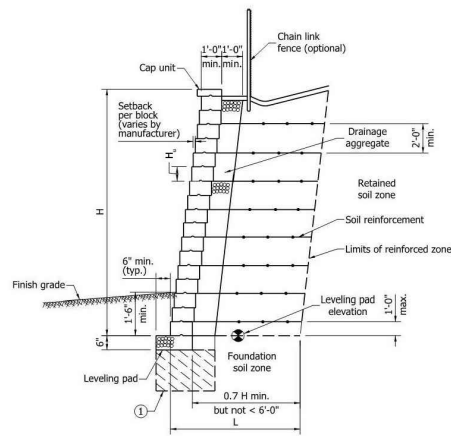


|                                                                                             |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                      |                  |             |        |     |                |             |       |         |             |        |     |          |          |         |         |         |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|--------|-----|----------------|-------------|-------|---------|-------------|--------|-----|----------|----------|---------|---------|---------|
| <p>(C) 9 IN. PCCP FOR APPROACHES</p> <p>(F) 4 IN. CONC SIDEWALK</p> <p>(K) HMA PAVEMENT</p> | <p>(R) MODULAR BLOCK WALL (SEE SHEETS 16 - 18)</p> <p>(12) MODIFIED INTEGRAL CONCRETE CURB TYPE B</p> <p>(15) COMBINED CURB &amp; GUTTER</p> <p>(22) 9" PCC, ON 5" COMPACTED AGGREGATE, NO. 53, ON SUBGRADE TREATMENT TYPE 1B</p> <p>(26) SODDING</p> |  <p><b>SEH of Indiana</b><br/>450 East 96th Street, Suite 500<br/>Indianapolis, IN 46240-3760<br/>Phone: 641.424.6344</p> | <p>RECOMMENDED FOR APPROVAL _____</p> <p>DESIGN ENGINEER _____ DATE XX/XX/XX</p> <p>DESIGNED: JLS DRAWN: RSP</p> <p>CHECKED: KE CHECKED: PWS</p> | <p><b>INDIANA DEPARTMENT OF TRANSPORTATION</b></p> <p><b>RETAINING WALL PLAN - 4TH STREET</b><br/><b>4TH ST &amp; O'BRIEN ST INTERSECTION IMPROVEMENT</b></p> | <table border="1"><tr><td>HORIZONTAL SCALE</td><td>BRIDGE FILE</td></tr><tr><td>1"=20'</td><td>---</td></tr><tr><td>VERTICAL SCALE</td><td>DESIGNATION</td></tr><tr><td>1"=5'</td><td>1703015</td></tr><tr><td>SURVEY BOOK</td><td>SHEETS</td></tr><tr><td>---</td><td>16 of 21</td></tr><tr><td>CONTRACT</td><td>PROJECT</td></tr><tr><td>R-40897</td><td>1703015</td></tr></table> | HORIZONTAL SCALE | BRIDGE FILE | 1"=20' | --- | VERTICAL SCALE | DESIGNATION | 1"=5' | 1703015 | SURVEY BOOK | SHEETS | --- | 16 of 21 | CONTRACT | PROJECT | R-40897 | 1703015 |
| HORIZONTAL SCALE                                                                            | BRIDGE FILE                                                                                                                                                                                                                                           |                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                      |                  |             |        |     |                |             |       |         |             |        |     |          |          |         |         |         |
| 1"=20'                                                                                      | ---                                                                                                                                                                                                                                                   |                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                      |                  |             |        |     |                |             |       |         |             |        |     |          |          |         |         |         |
| VERTICAL SCALE                                                                              | DESIGNATION                                                                                                                                                                                                                                           |                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                      |                  |             |        |     |                |             |       |         |             |        |     |          |          |         |         |         |
| 1"=5'                                                                                       | 1703015                                                                                                                                                                                                                                               |                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                      |                  |             |        |     |                |             |       |         |             |        |     |          |          |         |         |         |
| SURVEY BOOK                                                                                 | SHEETS                                                                                                                                                                                                                                                |                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                      |                  |             |        |     |                |             |       |         |             |        |     |          |          |         |         |         |
| ---                                                                                         | 16 of 21                                                                                                                                                                                                                                              |                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                      |                  |             |        |     |                |             |       |         |             |        |     |          |          |         |         |         |
| CONTRACT                                                                                    | PROJECT                                                                                                                                                                                                                                               |                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                      |                  |             |        |     |                |             |       |         |             |        |     |          |          |         |         |         |
| R-40897                                                                                     | 1703015                                                                                                                                                                                                                                               |                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                      |                  |             |        |     |                |             |       |         |             |        |     |          |          |         |         |         |

Save: 8/24/2021 7:56 PM psepapanovic Plot: 8/25/2021 5:39 PM X:\PT\SE\YIN149\193\5-final-dsgn\51-drawings\10-Civil\cadd\dwg\sheet149193P2.dwg

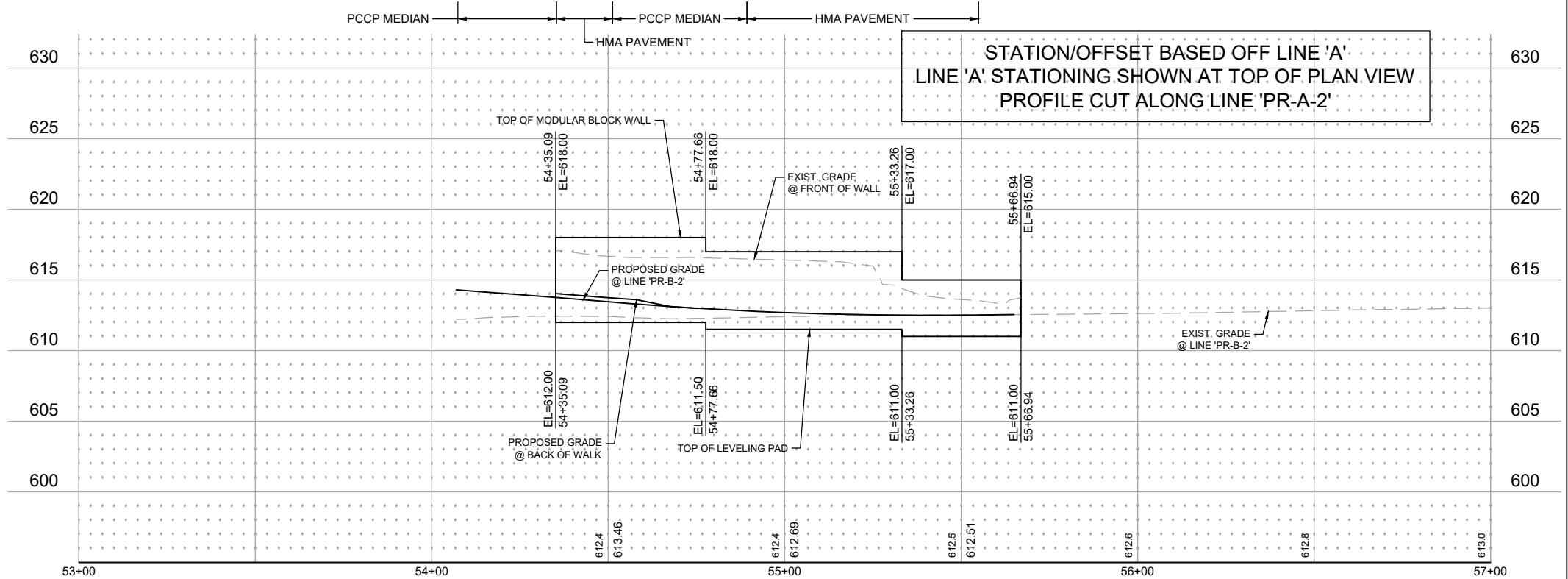


BM SET NE CORNER O'BRIEN STREET AND 4TH STREET  
5/8" REBAR W/ ETICA CONTROL CAP SET FLUSH



① Soil below leveling pad which is subject to frost heave should be removed to an elevation 3 ft below finished grade and replaced with granular backfill.

MODULAR-BLOCK-WALL TYPICAL SECTION



- (C) 9 IN. PCCP FOR APPROACHES
- (F) 4 IN. CONC SIDEWALK
- (K) HMA PAVEMENT
- (R) MODULAR BLOCK WALL (SEE SHEETS 16 - 18)
- (12) MODIFIED INTEGRAL CONCRETE CURB TYPE B
- (15) COMBINED CURB & GUTTER
- (22) 9" PCC, ON 5" COMPACTED AGGREGATE, NO. 53, ON SUBGRADE TREATMENT TYPE 1B
- (26) SODDING

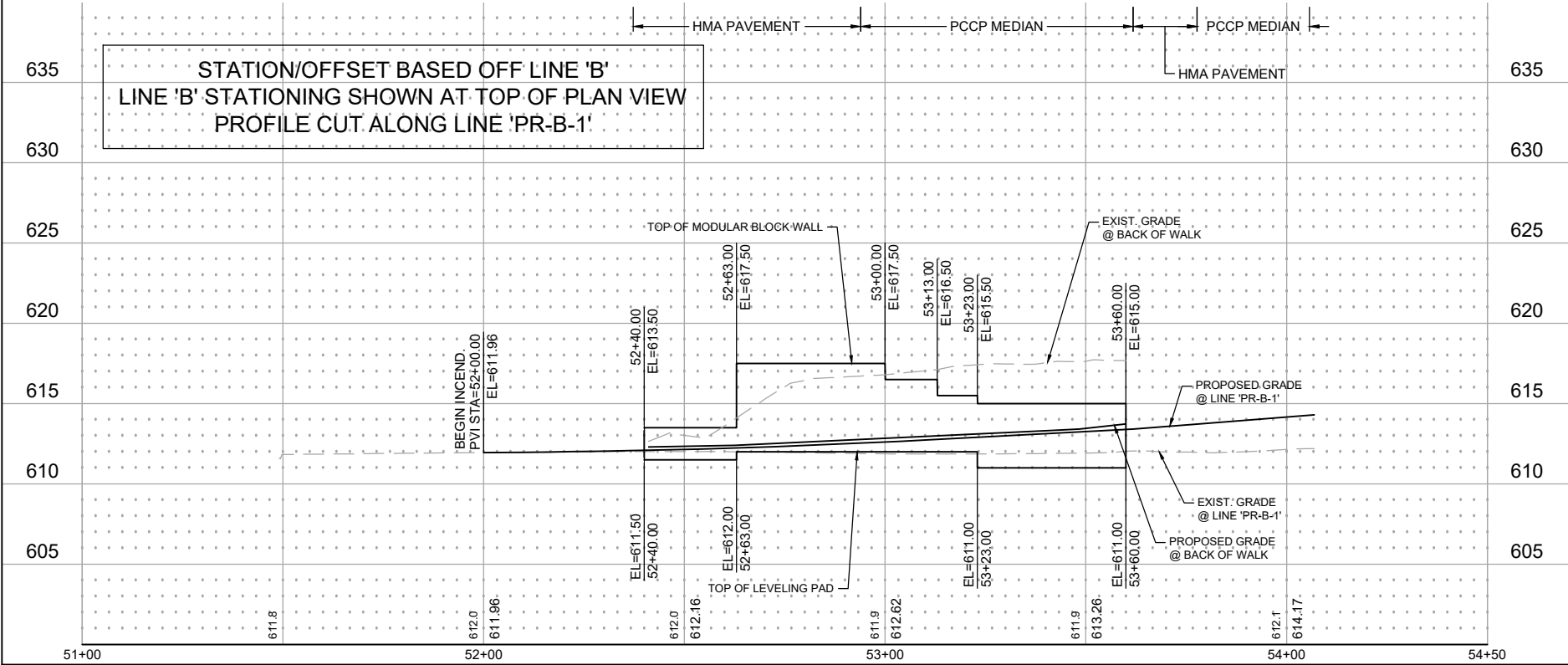
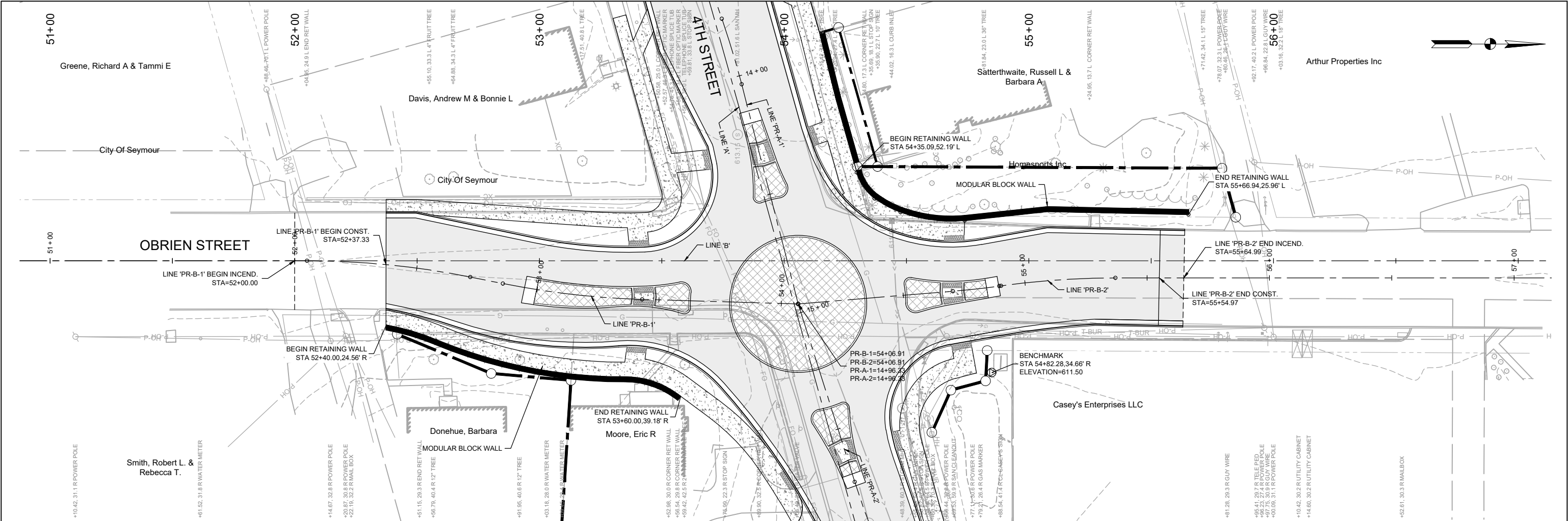


|                          |                 |          |      |
|--------------------------|-----------------|----------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | XX/XX/XX | DATE |
| DESIGNED: JLS            | DRAWN: RSP      |          |      |
| CHECKED: KE              | CHECKED: PWS    |          |      |

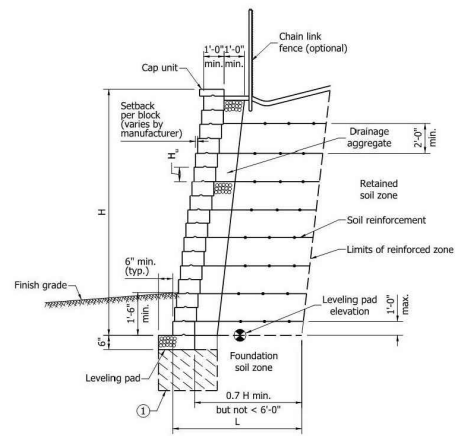
|                                                                                            |  |
|--------------------------------------------------------------------------------------------|--|
| INDIANA DEPARTMENT OF TRANSPORTATION                                                       |  |
| RETAINING WALL PLAN - O'BRIEN STREET NORTH<br>4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT |  |

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| 1"=5'            | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 17 of 21    |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |

Save: 8/24/2021 7:56 PM ptepanovic Plot: 8/25/2021 5:40 PM X:\PT\SE\YIM149193\5-final-dsgn\51-drawings\10-Civil\cadd\dwg\sheet149193P2.dwg



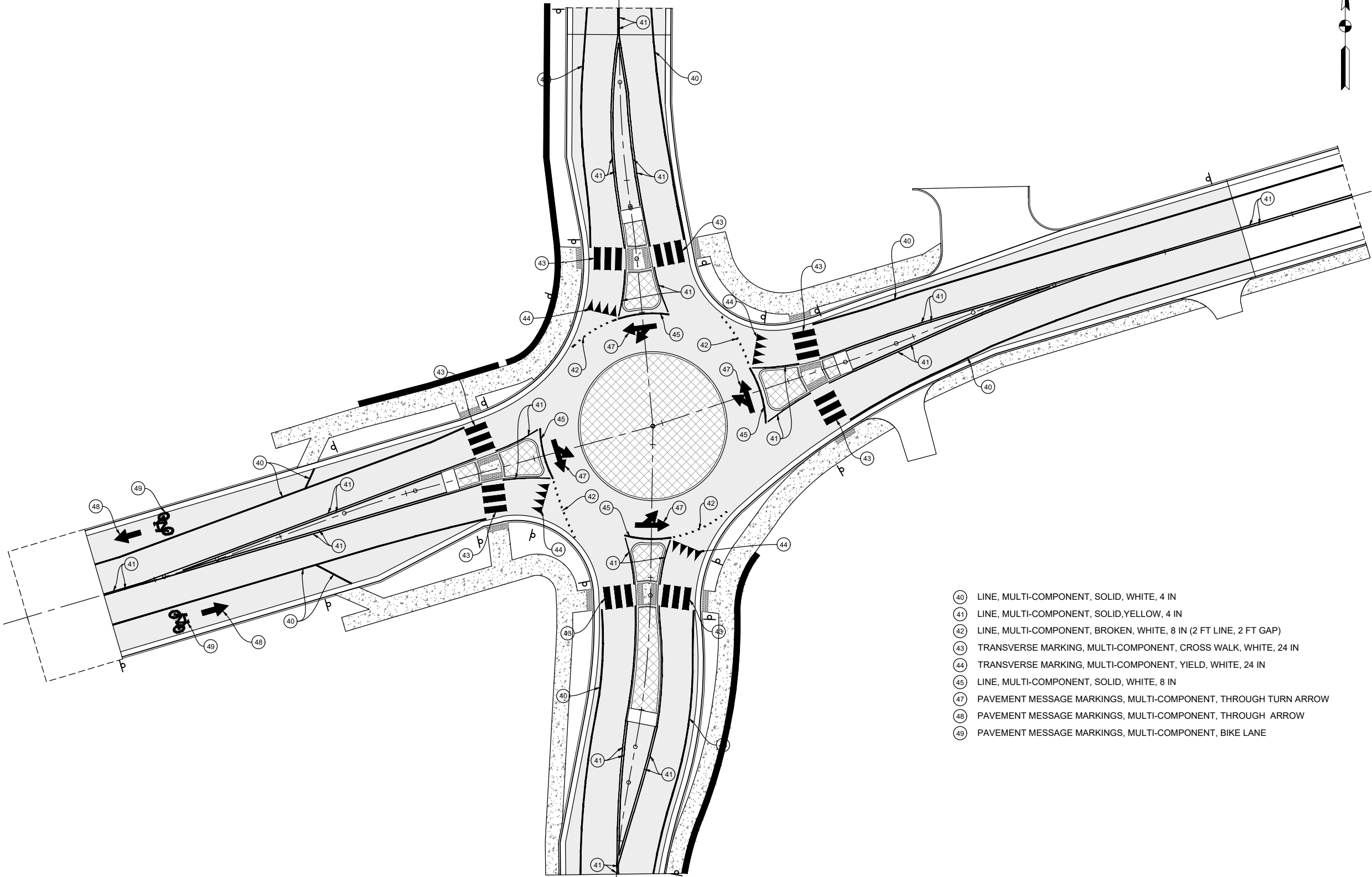
BM SET NE CORNER O'BRIEN STREET AND 4TH STREET  
5/8" REBAR W/ ETICA CONTROL CAP SET FLUSH



MODULAR-BLOCK-WALL TYPICAL SECTION

|                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                     |                                                                                                                                                                                                                  |                                                                                                                                                                            |                                                                                                  |                                                                                         |                                                                                      |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <div><div><div>9 IN. PCCP FOR APPROACHES</div><div>4 IN. CONC SIDEWALK</div><div>HMA PAVEMENT</div></div><div><div>MODULAR BLOCK WALL (SEE SHEETS 16 - 18)</div><div>MODIFIED INTEGRAL CONCRETE CURB TYPE B</div><div>COMBINED CURB &amp; GUTTER</div><div>9" PCC, ON 5" COMPACTED AGGREGATE, NO. 53, ON SUBGRADE TREATMENT TYPE 1B</div><div>SODDING</div></div></div> | <div><div><div><div></div><div>SEH of Indiana</div><div>450 East 96th Street, Suite 500</div><div>Indianapolis, IN 46240-3760</div><div>Phone: 641.424.6344</div></div></div></div> | <div><div>RECOMMENDED FOR APPROVAL</div><div>DESIGN ENGINEER</div><div>XX/XX/XX</div><div>DATE</div></div> <div><div>DESIGNED: JLS</div><div>DRAWN: RSP</div><div>CHECKED: KE</div><div>CHECKED: PWS</div></div> | <div><div>INDIANA DEPARTMENT OF TRANSPORTATION</div><div>RETAINING WALL PLAN - O'BRIEN STREET SOUTH</div><div>4TH ST &amp; O'BRIEN ST INTERSECTION IMPROVEMENT</div></div> | <div><div>HORIZONTAL SCALE</div><div>1"=20'</div><div>VERTICAL SCALE</div><div>1"=5'</div></div> | <div><div>BRIDGE FILE</div><div>---</div><div>DESIGNATION</div><div>1703015</div></div> | <div><div>SURVEY BOOK</div><div>---</div><div>CONTRACT</div><div>R-40897</div></div> | <div><div>SHEETS</div><div>18 of 21</div><div>PROJECT</div><div>1703015</div></div> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

Save: 1/21/4/2020 10:42 AM ptepanovic Plot: 8/25/2021 5:42 PM X:\PT\SSEY\N\1491935-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet14919355 PLAN.dwg



- 40 LINE, MULTI-COMPONENT, SOLID, WHITE, 4 IN
- 41 LINE, MULTI-COMPONENT, SOLID, YELLOW, 4 IN
- 42 LINE, MULTI-COMPONENT, BROKEN, WHITE, 8 IN (2 FT LINE, 2 FT GAP)
- 43 TRANSVERSE MARKING, MULTI-COMPONENT, CROSS WALK, WHITE, 24 IN
- 44 TRANSVERSE MARKING, MULTI-COMPONENT, YIELD, WHITE, 24 IN
- 45 LINE, MULTI-COMPONENT, SOLID, WHITE, 8 IN
- 47 PAVEMENT MESSAGE MARKINGS, MULTI-COMPONENT, THROUGH TURN ARROW
- 48 PAVEMENT MESSAGE MARKINGS, MULTI-COMPONENT, THROUGH ARROW
- 49 PAVEMENT MESSAGE MARKINGS, MULTI-COMPONENT, BIKE LANE



RECOMMENDED FOR APPROVAL \_\_\_\_\_  
DESIGN ENGINEER DATE XX/XX/XX

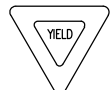
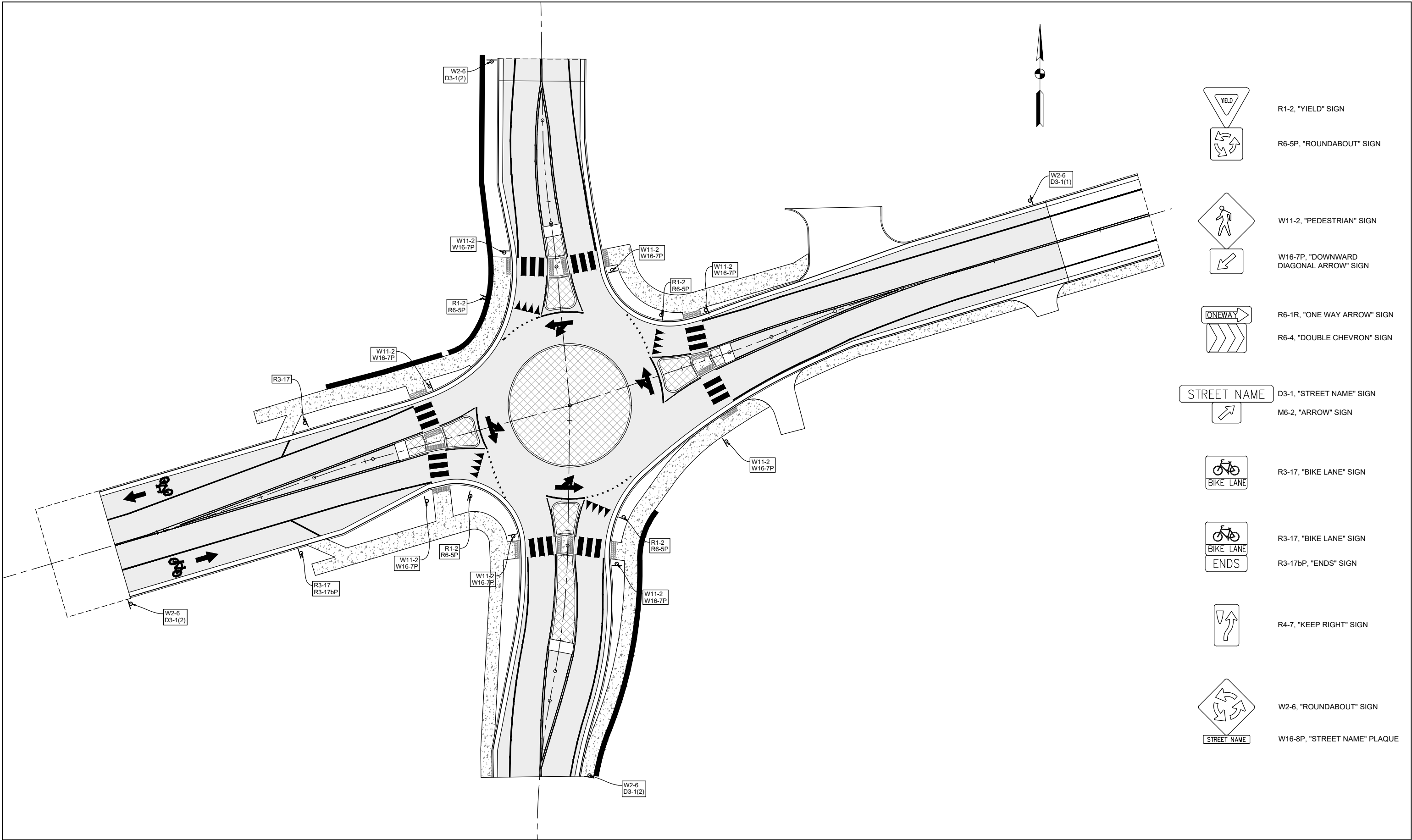
DESIGNED: JLS DRAWN: RSP  
CHECKED: KE CHECKED: PWS

INDIANA DEPARTMENT OF  
TRANSPORTATION

PAVEMENT MARKING PLAN  
4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| ---              | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 19 of 21    |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |

Save: 1/21/4/2020 10:42 AM pstepanovic Plot: 8/25/2021 5:42 PM X:\PT\SS\SE\N1491935-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet14919355 PLAN.dwg



R1-2, "YIELD" SIGN



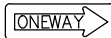
R6-5P, "ROUNDBABOUT" SIGN



W11-2, "PEDESTRIAN" SIGN



W16-7P, "DOWNWARD  
DIAGONAL ARROW" SIGN



R6-1R, "ONE WAY ARROW" SIGN



R6-4, "DOUBLE CHEVRON" SIGN

STREET NAME

D3-1, "STREET NAME" SIGN



M6-2, "ARROW" SIGN



R3-17, "BIKE LANE" SIGN

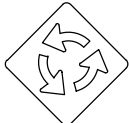


R3-17, "BIKE LANE" SIGN

R3-17bP, "ENDS" SIGN



R4-7, "KEEP RIGHT" SIGN



W2-6, "ROUNDBABOUT" SIGN

STREET NAME

W16-8P, "STREET NAME" PLAQUE



RECOMMENDED FOR APPROVAL \_\_\_\_\_  
DESIGN ENGINEER DATE XX/XX/XX

DESIGNED: JLS DRAWN: RSP  
CHECKED: KE CHECKED: PWS

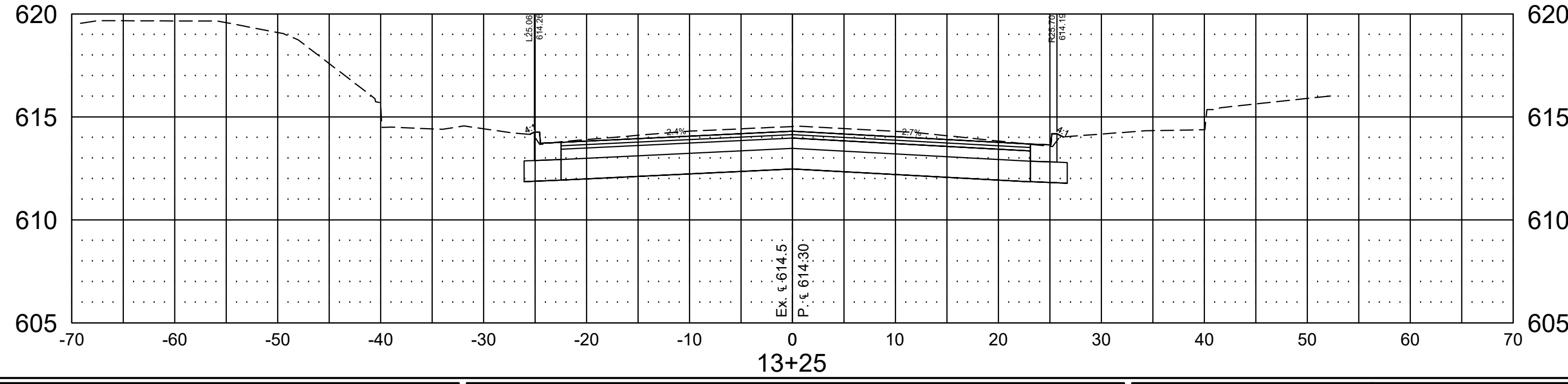
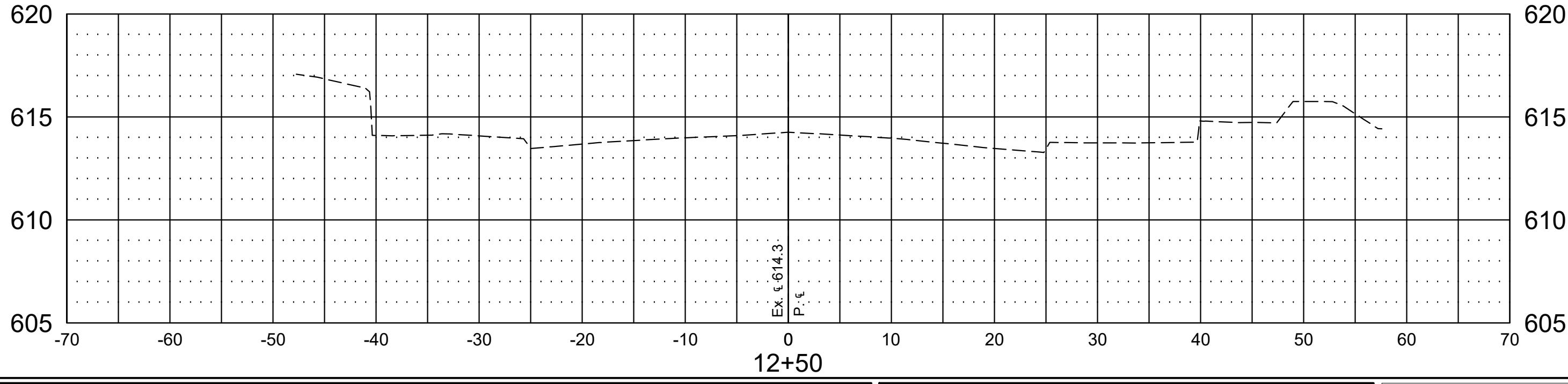
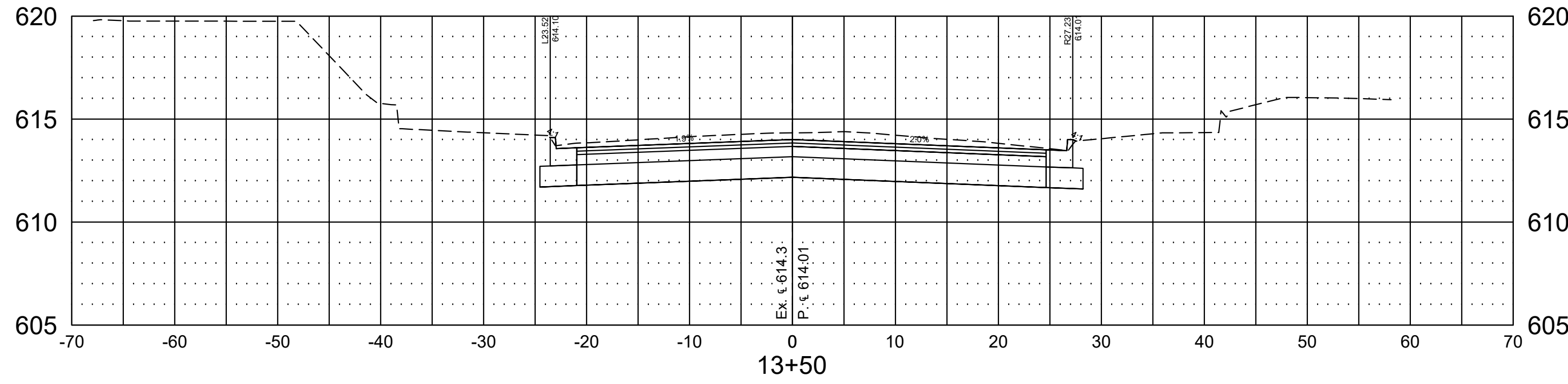
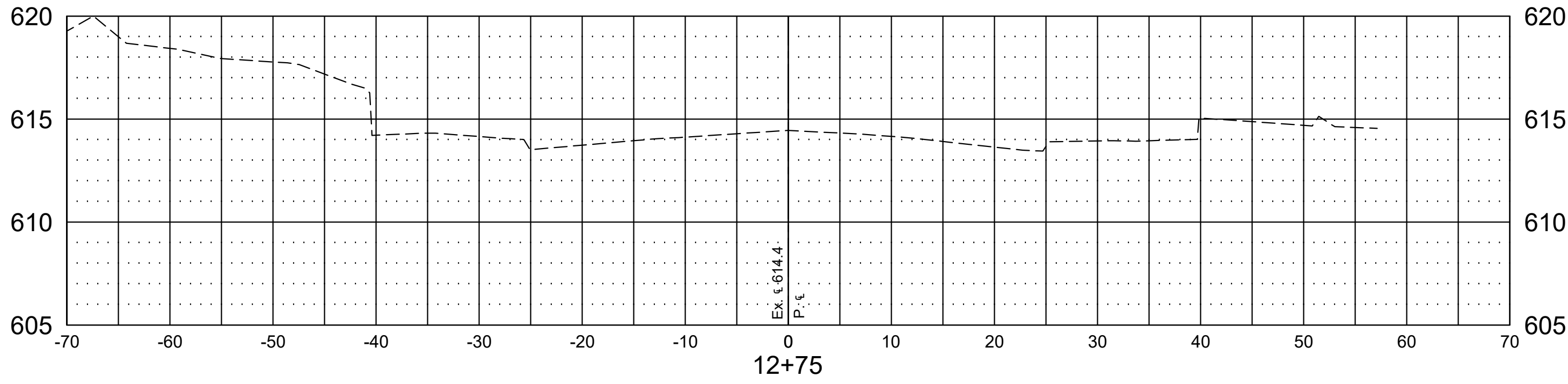
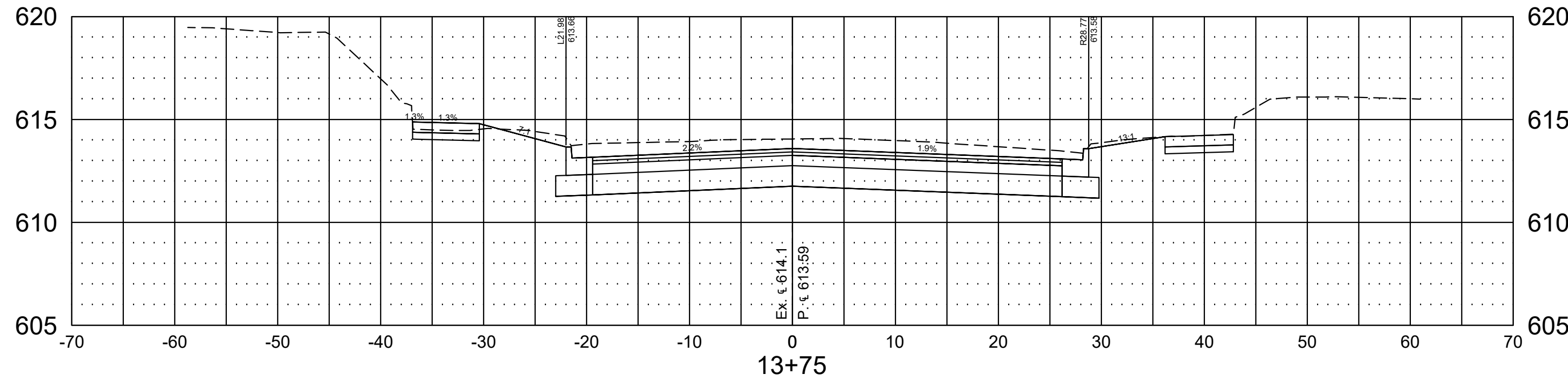
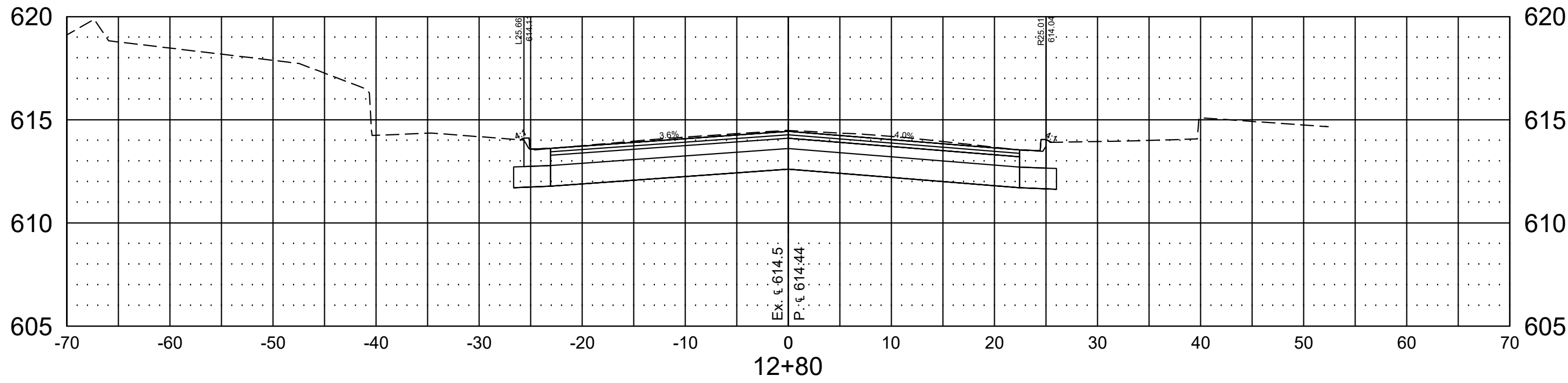
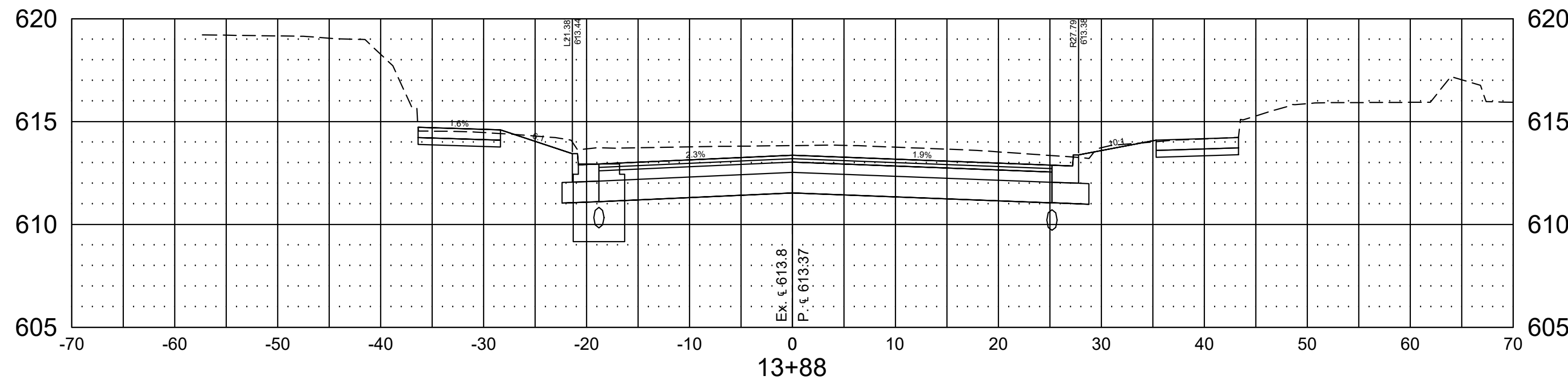
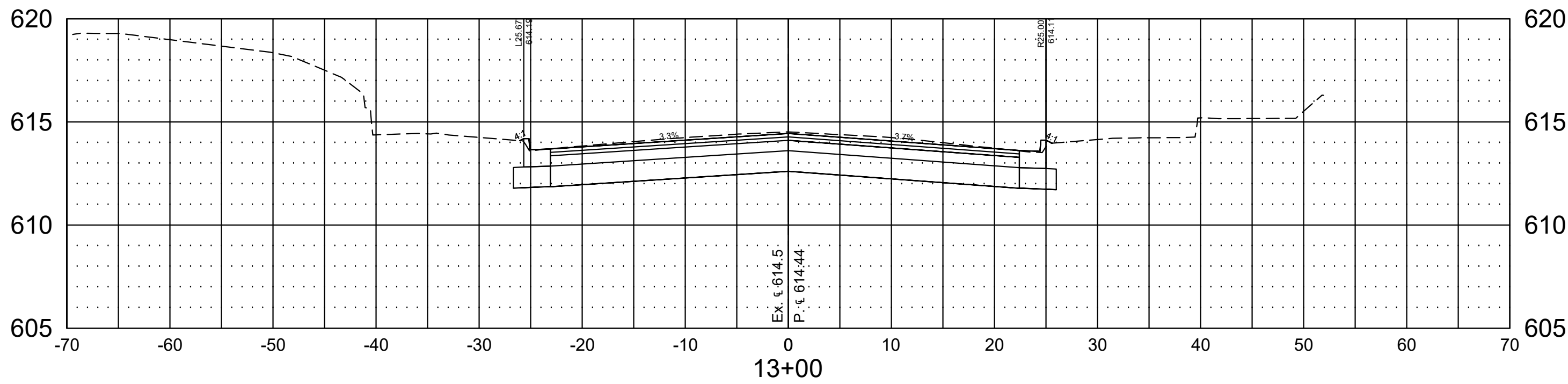
INDIANA DEPARTMENT OF  
TRANSPORTATION

SIGNING PLAN  
4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=20'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| ---              | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 19 of 21    |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |



Save: 8/25/2021 3:56 PM psteapanovic Plot: 8/25/2021 5:46 PM X:\PT\SS\SE\N\149\93\5-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet149\93\XS-4th Street.dwg



RECOMMENDED FOR APPROVAL \_\_\_\_\_ XX/XX/XX  
DESIGN ENGINEER DATE

DESIGNED: JLS DRAWN: RSP

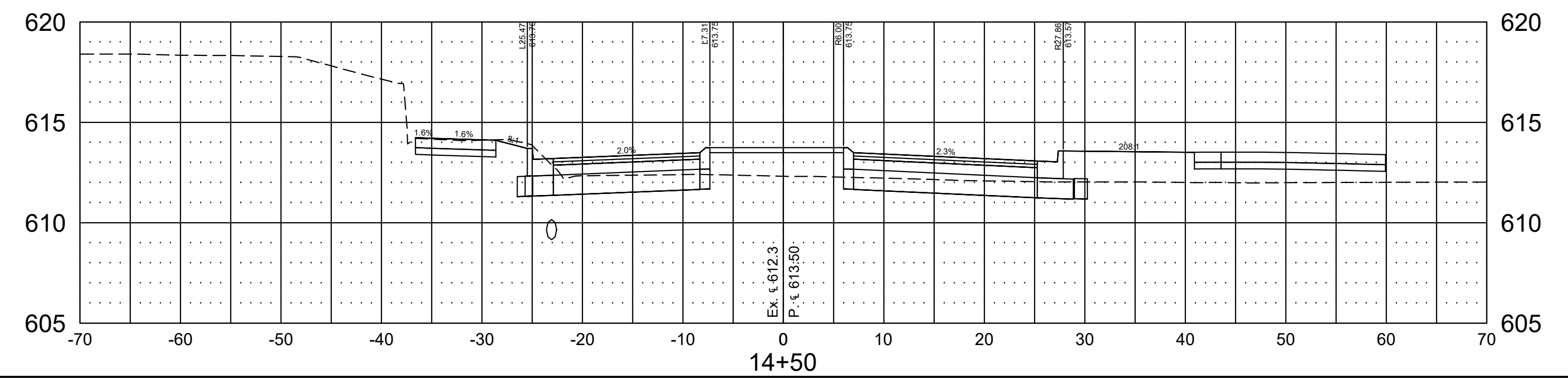
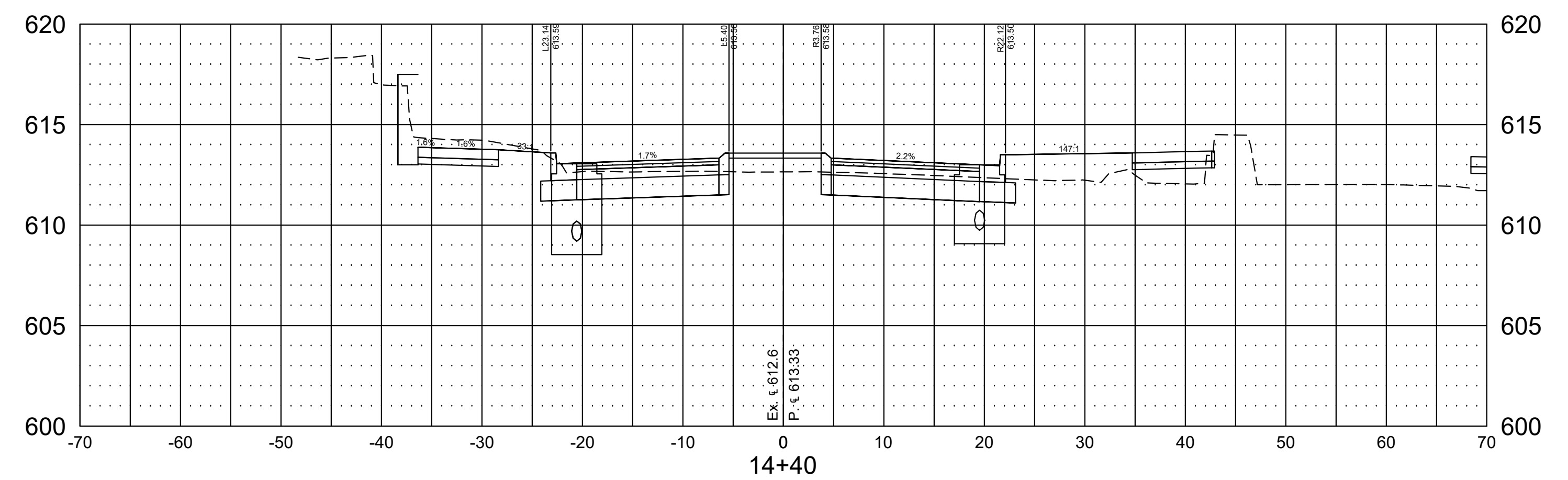
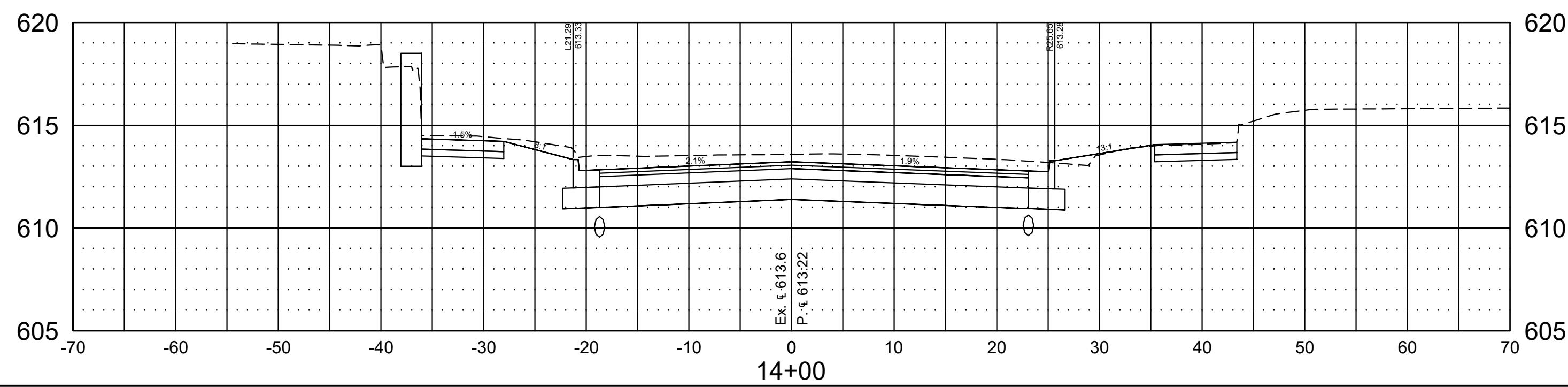
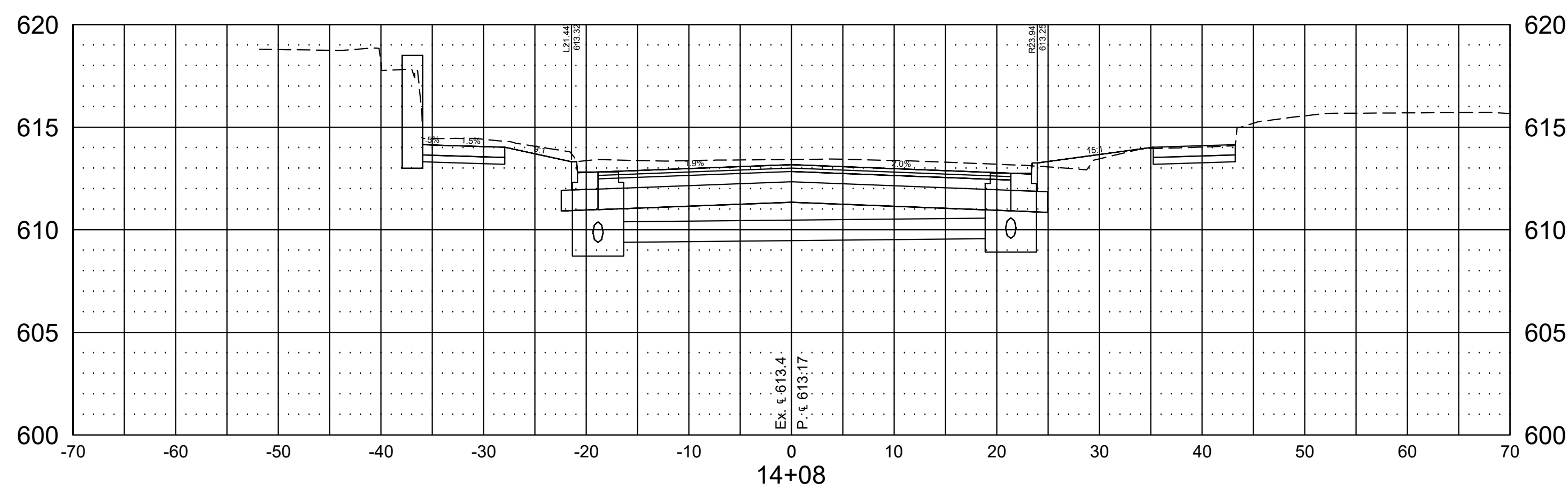
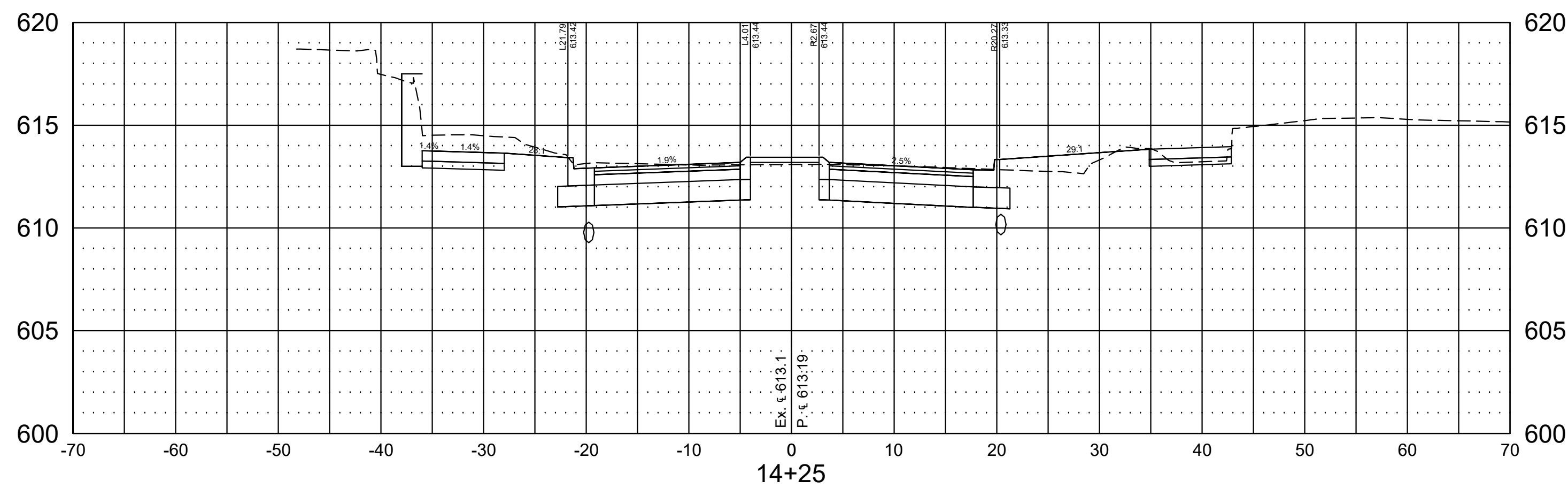
CHECKED: KE CHECKED: PWS

## INDIANA DEPARTMENT OF TRANSPORTATION

4TH STREET SECTIONS  
STA 12+50 TO STA 13+88  
4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=10'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| 1"=5'            | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 21 of 21    |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |





RECOMMENDED  
FOR APPROVAL \_\_\_\_\_ XX/XX/XX  
DESIGN ENGINEER DATE

|                           |                          |
|---------------------------|--------------------------|
| DESIGNED: _____ JLS _____ | DRAWN: _____ RSP _____   |
| CHECKED: _____ KE _____   | CHECKED: _____ PWS _____ |

**INDIANA DEPARTMENT OF  
TRANSPORTATION**

|                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------|
| <b>4TH STREET SECTIONS</b><br><b>STA 14+00 TO STA 14+50</b><br><b>4TH ST &amp; O'BRIEN ST INTERSECTION IMPROVEMENT</b> |
|------------------------------------------------------------------------------------------------------------------------|

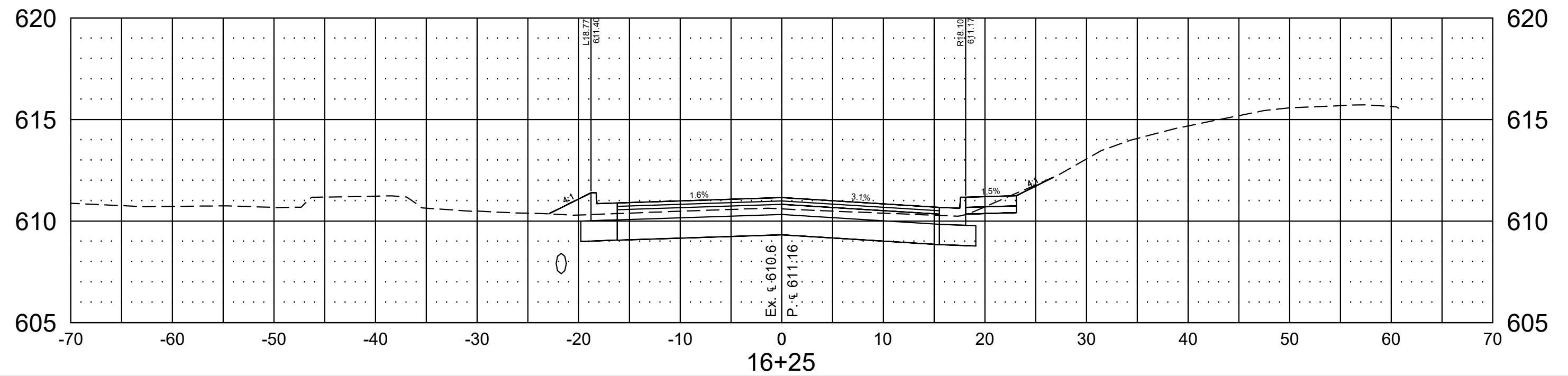
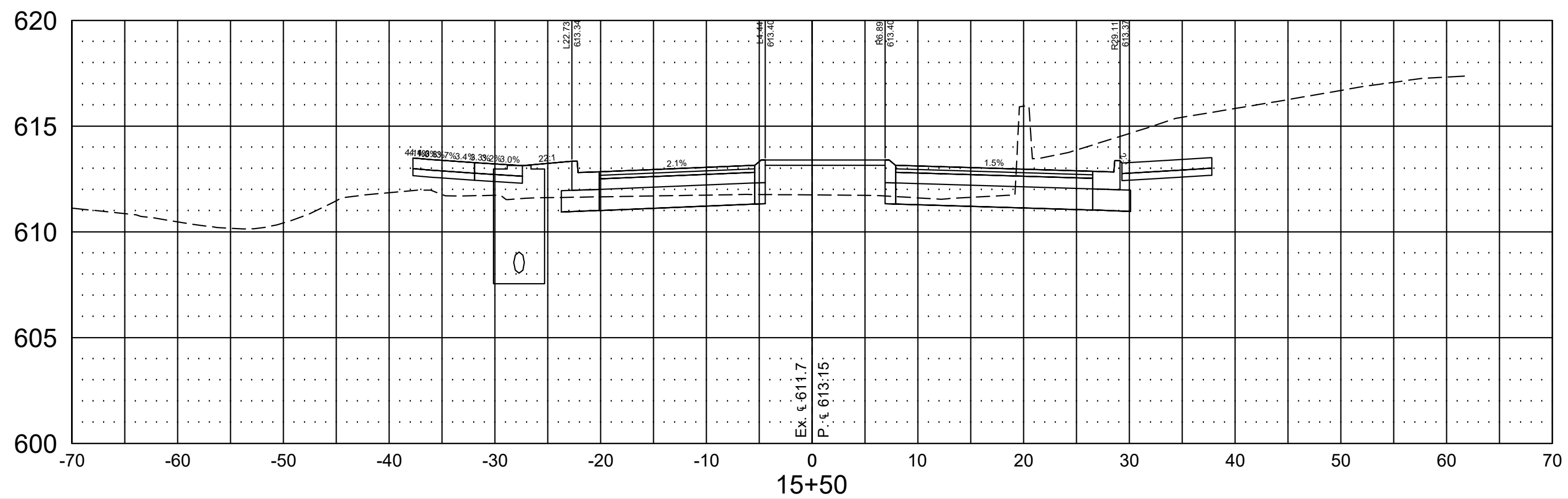
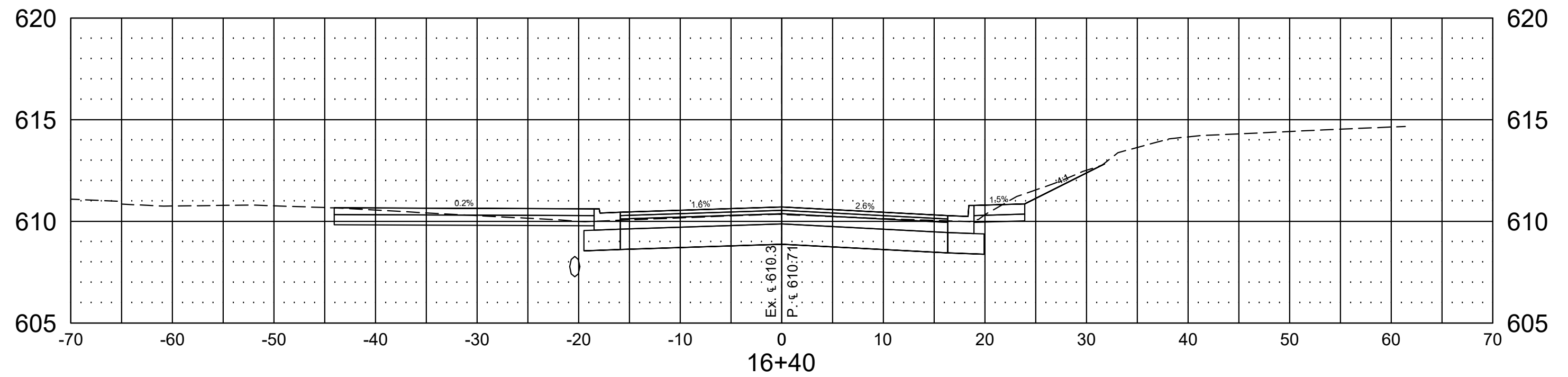
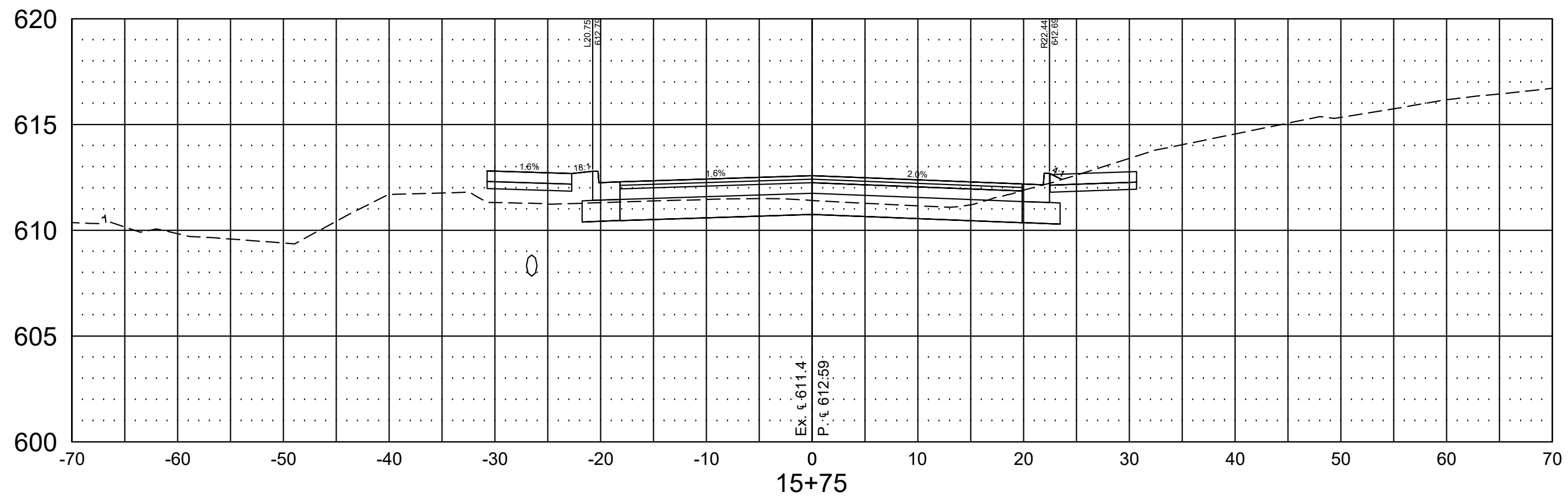
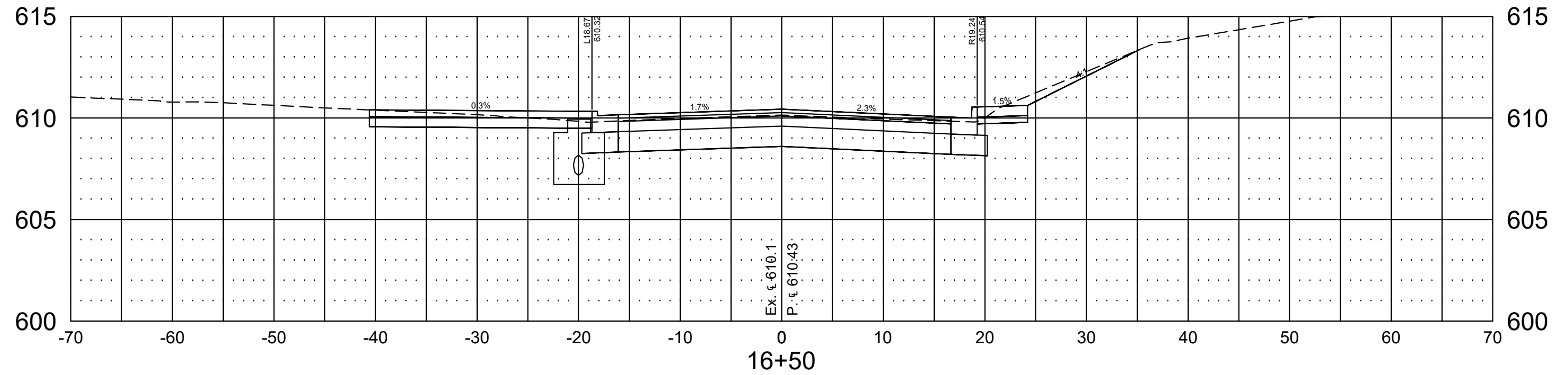
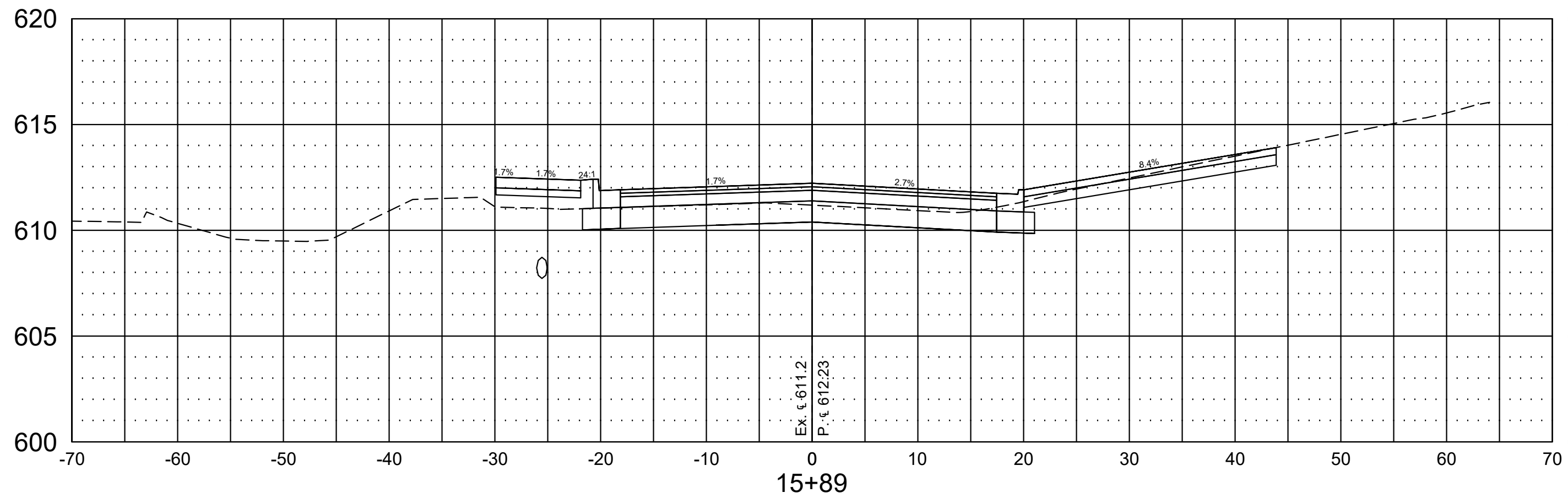
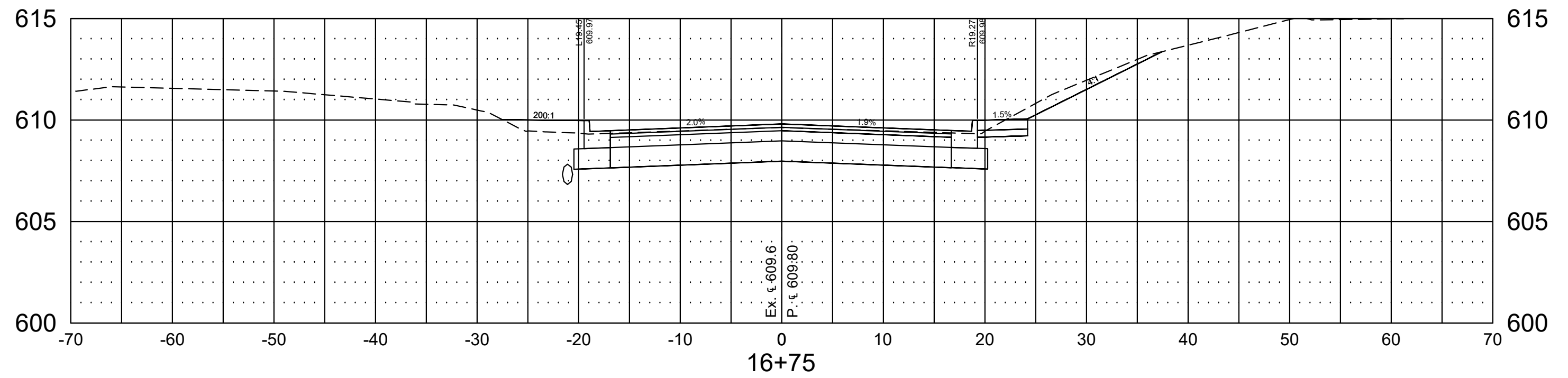
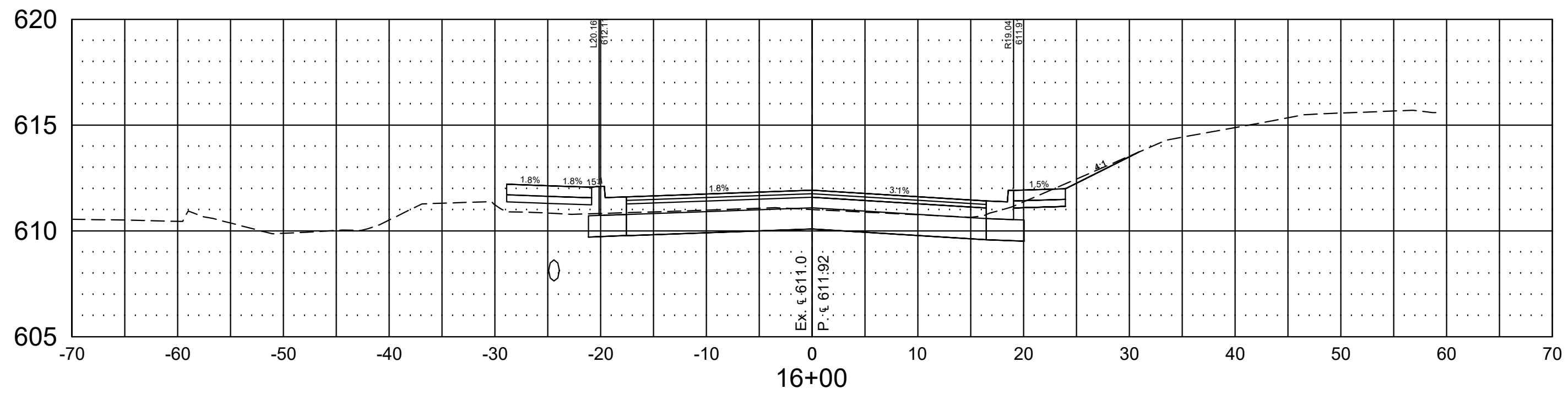
|                  |  |             |  |
|------------------|--|-------------|--|
| HORIZONTAL SCALE |  | BRIDGE FILE |  |
| 1"=10'           |  | ---         |  |
| VERTICAL SCALE   |  | DESIGNATION |  |
| 1"=5'            |  | 1703015     |  |

|             |  |         |    |
|-------------|--|---------|----|
| SURVEY BOOK |  | SHEETS  |    |
| ---         |  | 22      | 21 |
| CONTRACT    |  | PROJECT |    |
| R-40897     |  | 1703015 |    |



Save: 8/25/2021 3:56 PM psteapanovic Plot: 8/25/2021 5:47 PM X:\PT\SS\SE\N149\93\5-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet149\93\XS-4th Street.dwg



RECOMMENDED FOR APPROVAL \_\_\_\_\_  
DESIGN ENGINEER DATE XX/XX/XX

DESIGNED: JLS DRAWN: RSP

CHECKED: KE CHECKED: PWS

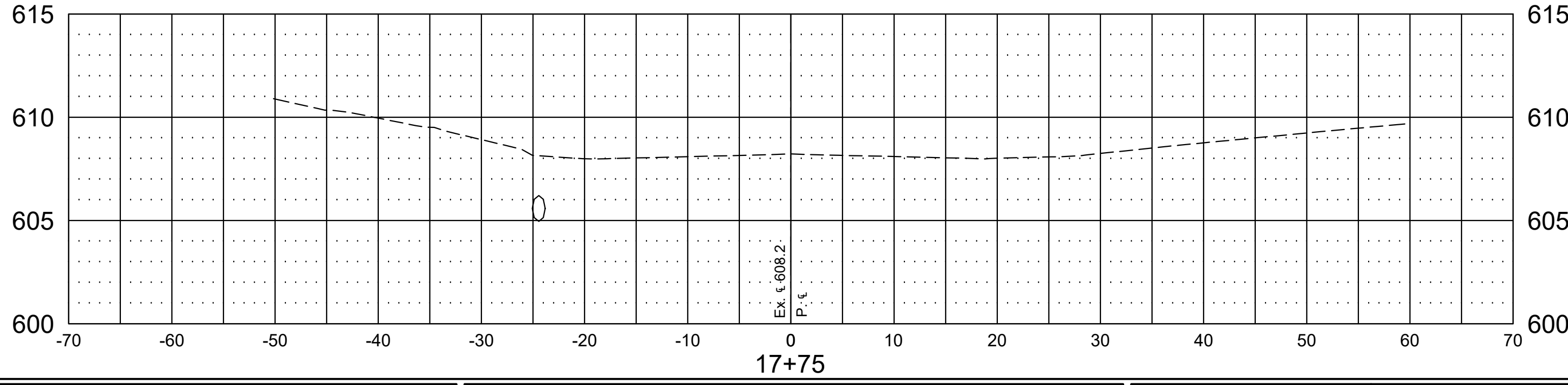
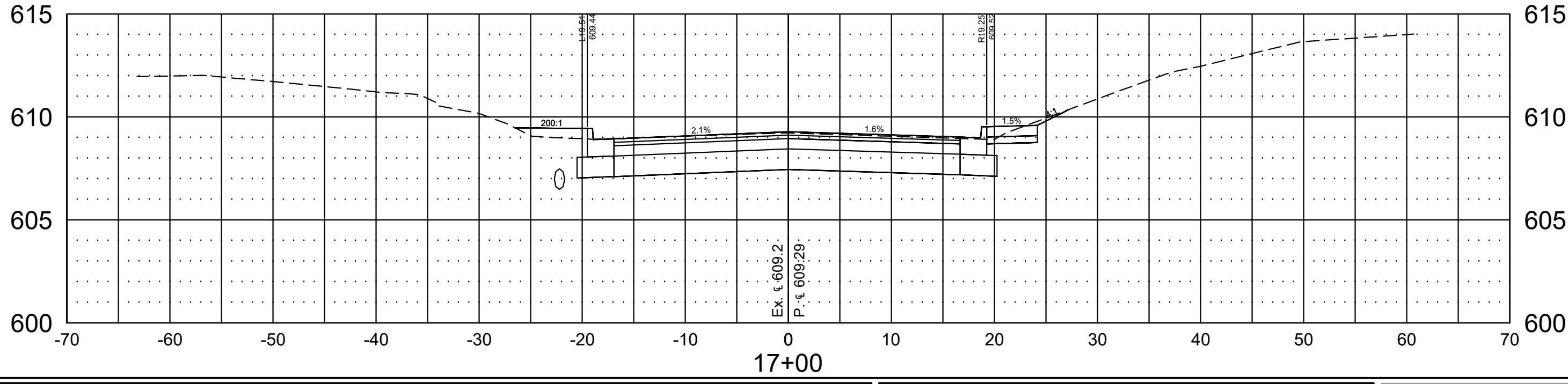
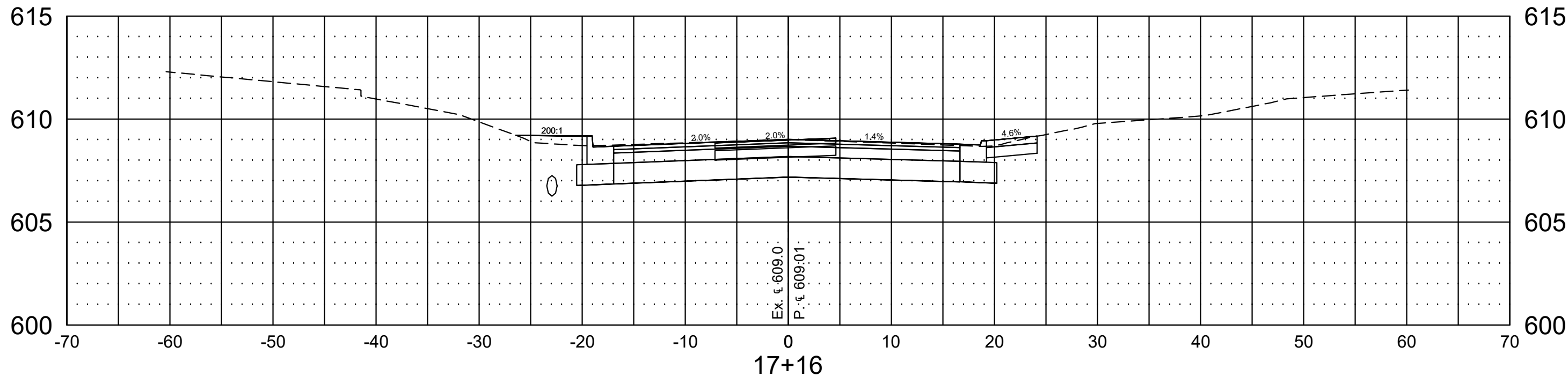
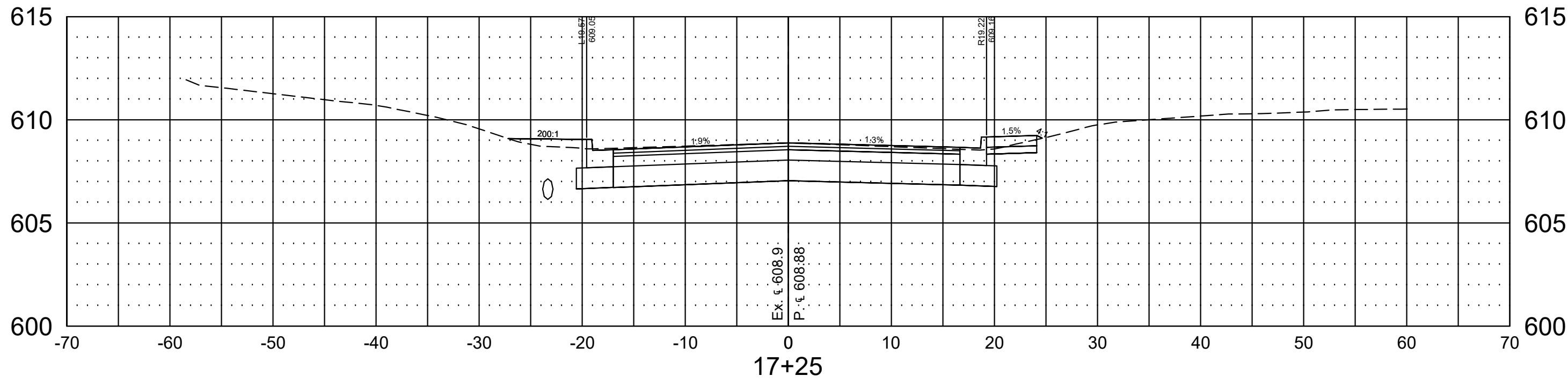
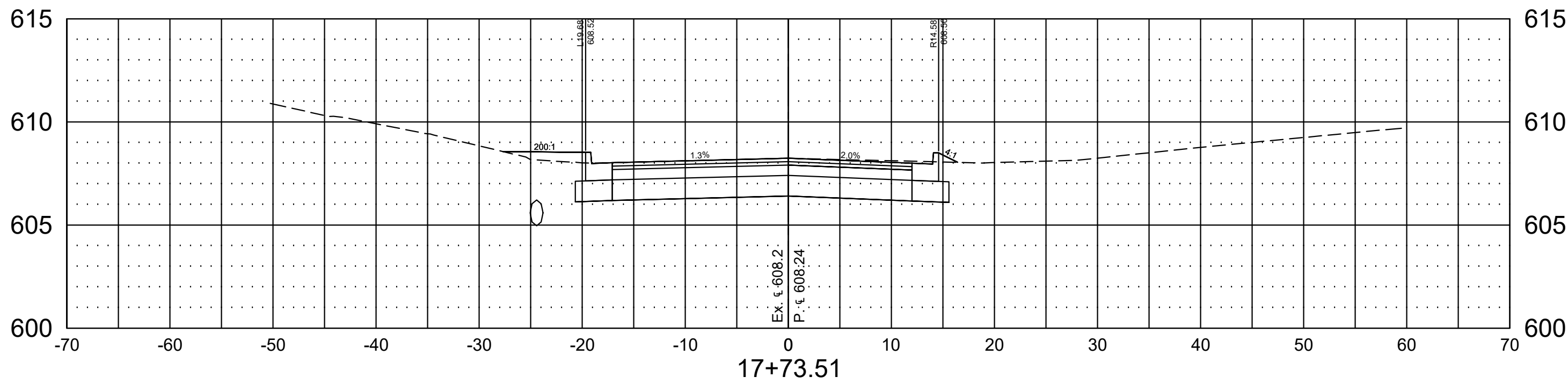
## INDIANA DEPARTMENT OF TRANSPORTATION

4TH STREET SECTIONS  
STA 15+50 TO STA 16+75  
4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=10'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| 1"=5'            | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 23 of 21    |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |



Save: 8/25/2021 3:56 PM psteapanovic Plot: 8/25/2021 5:47 PM X:\PT\SS\SE\N\149\93\5-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet149\93\XS-4th Street.dwg



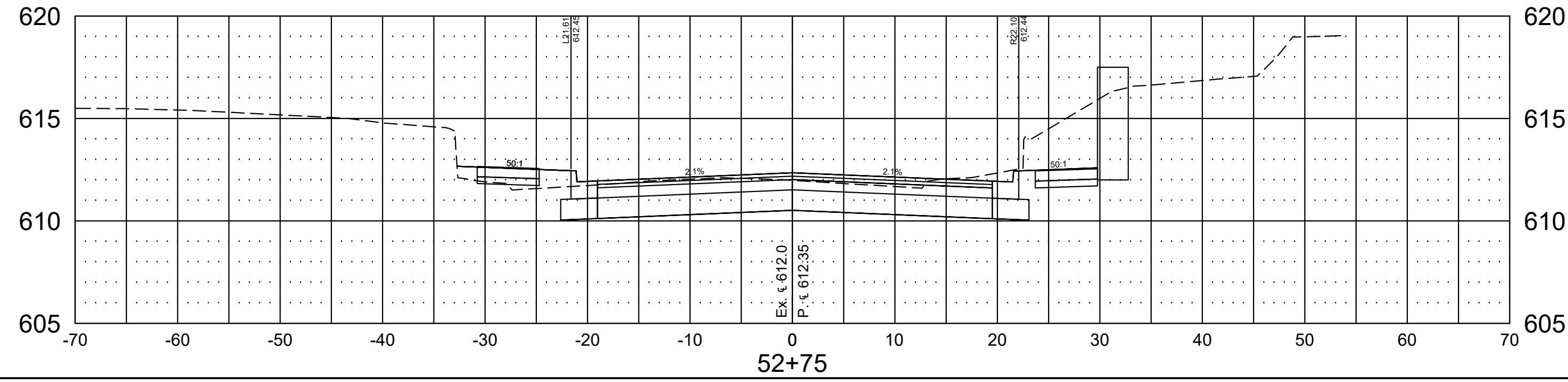
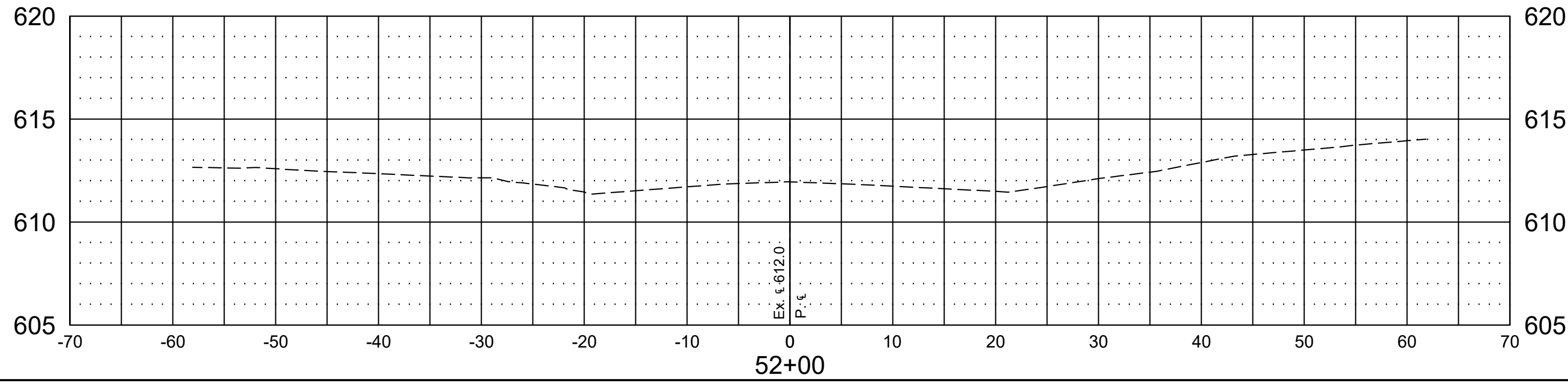
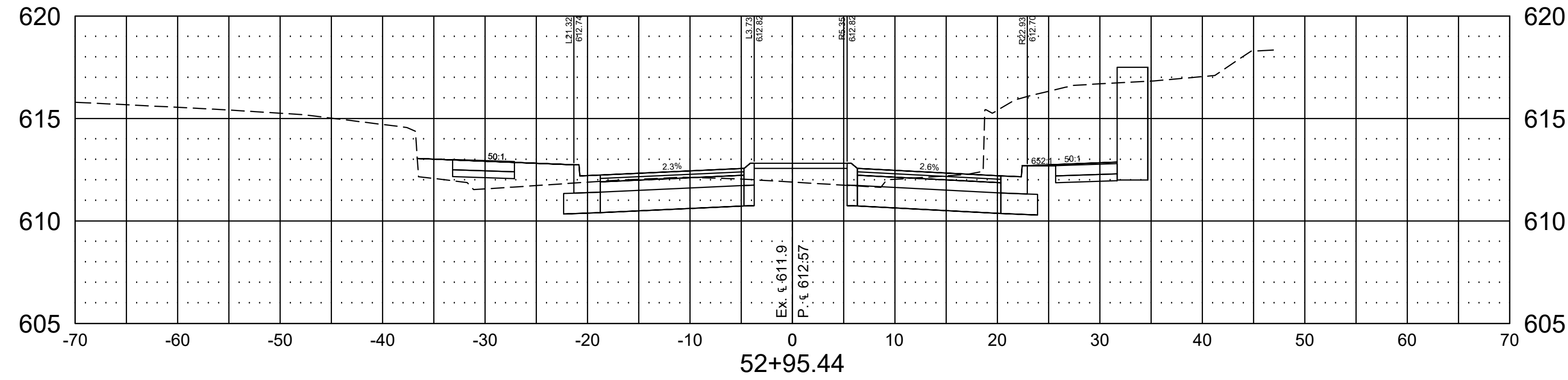
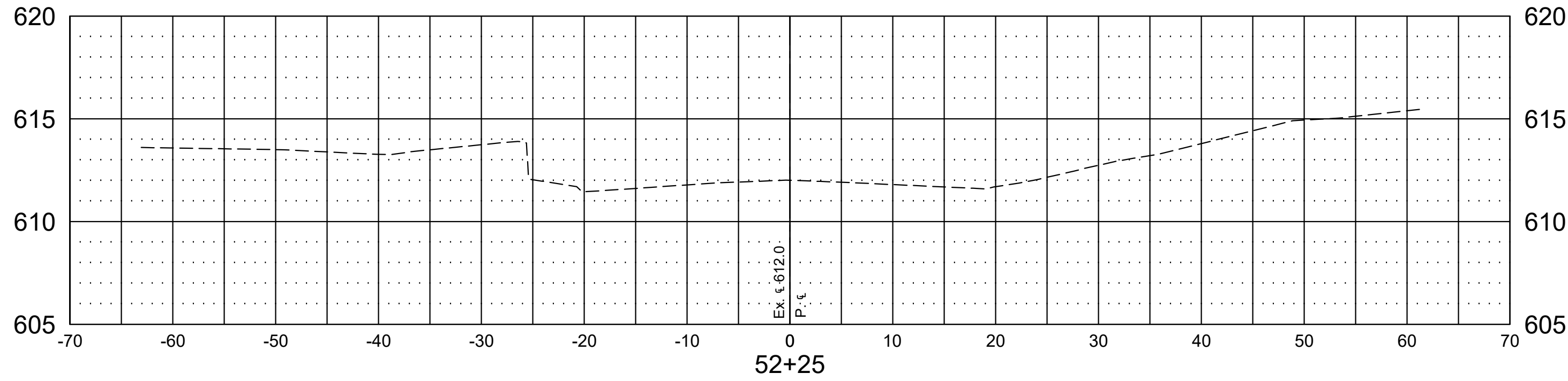
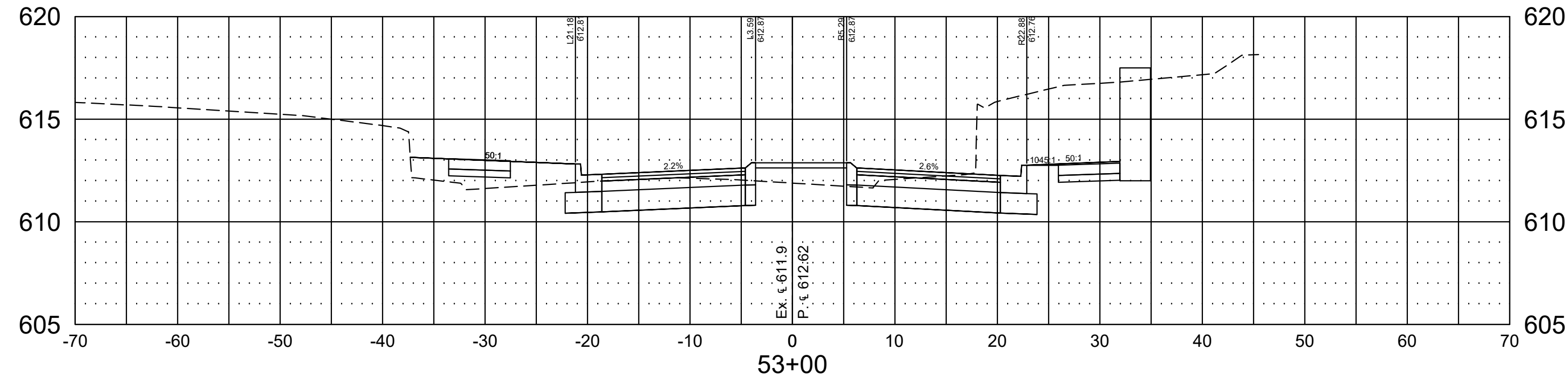
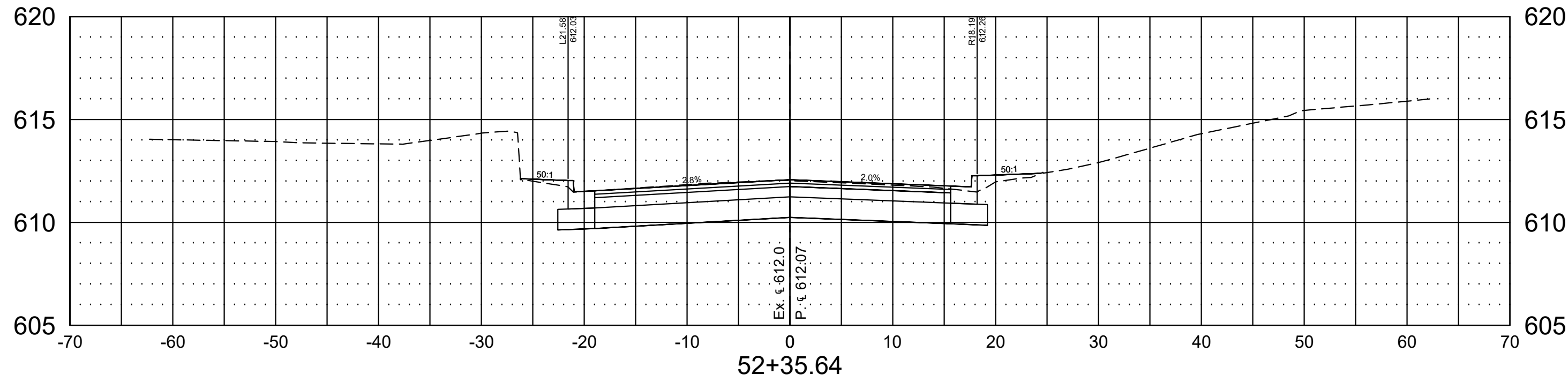
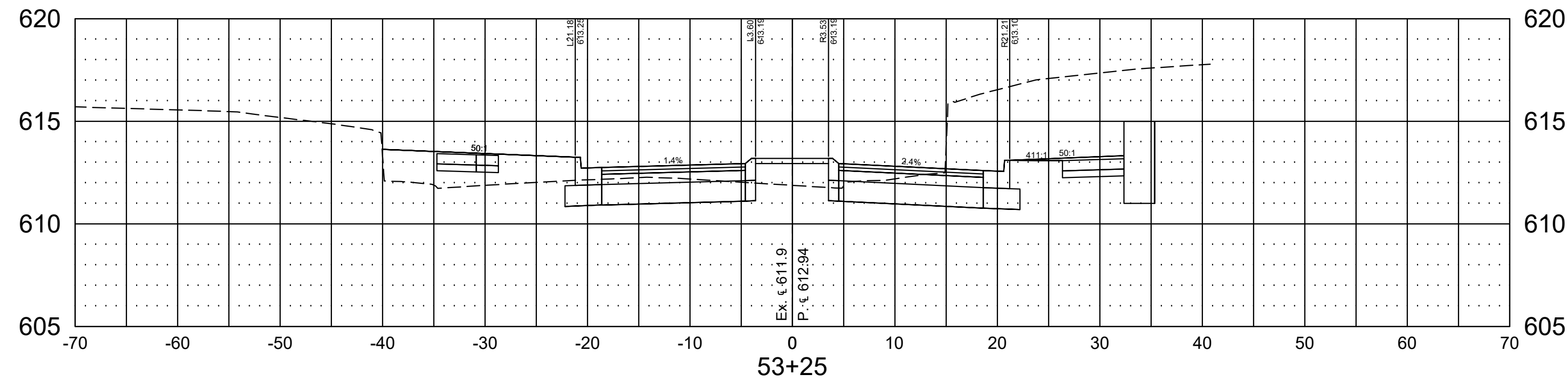
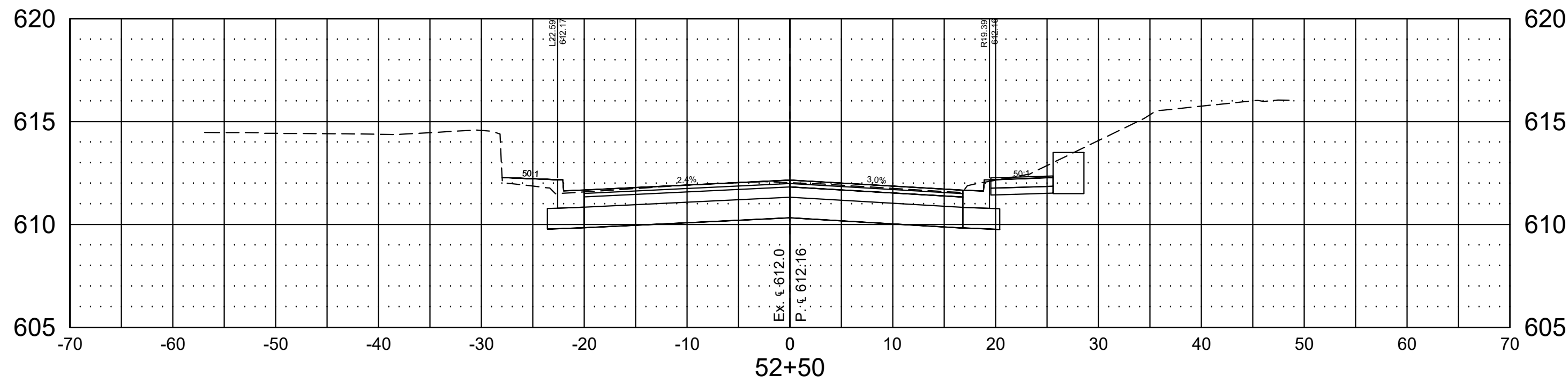
|                                                                 |              |
|-----------------------------------------------------------------|--------------|
| RECOMMENDED FOR APPROVAL _____ XX/XX/XX<br>DESIGN ENGINEER DATE |              |
| DESIGNED: JLS                                                   | DRAWN: RSP   |
| CHECKED: KE                                                     | CHECKED: PWS |

|                                               |  |
|-----------------------------------------------|--|
| INDIANA DEPARTMENT OF TRANSPORTATION          |  |
| 4TH STREET SECTIONS<br>STA 17+00 TO STA 17+75 |  |
| 4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT  |  |

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=10'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| 1"=5'            | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 24 of 21    |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |



Save: 12/14/2020 11:00 AM pstepanovic Plot: 8/25/2021 5:50 PM X:\PT\US\SE\YN\149193\5-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet149193XS-Obrien Street.dwg



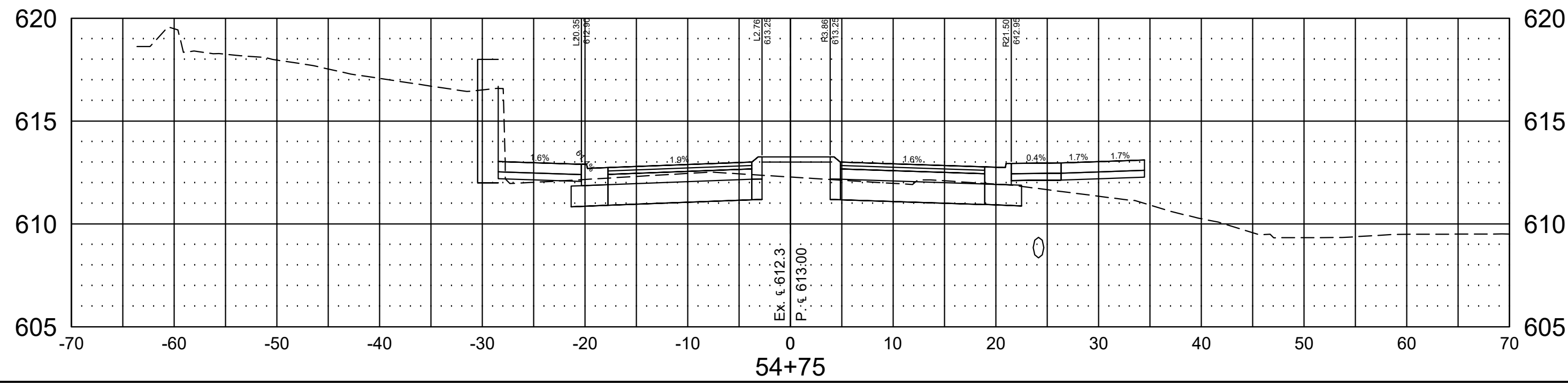
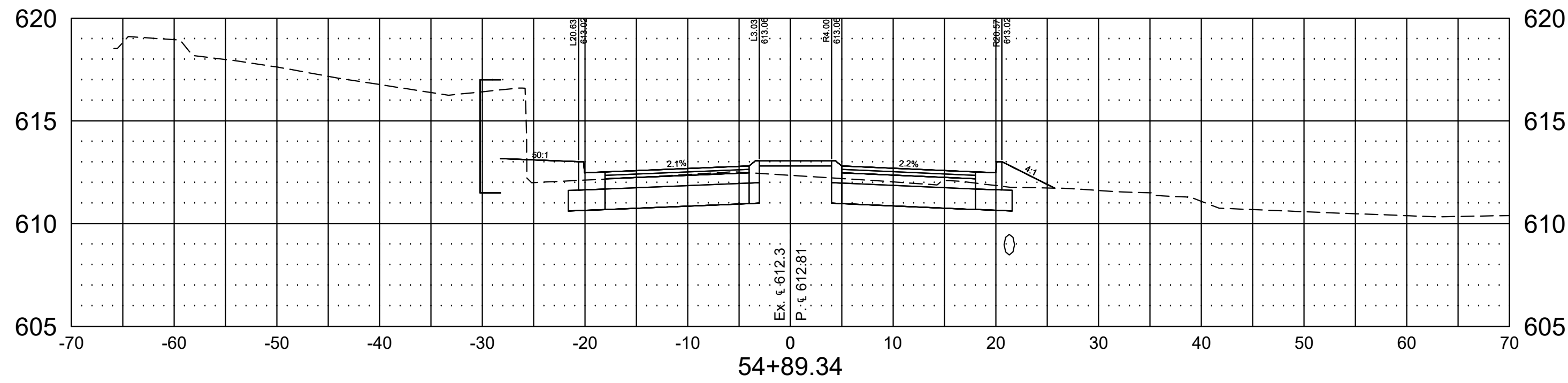
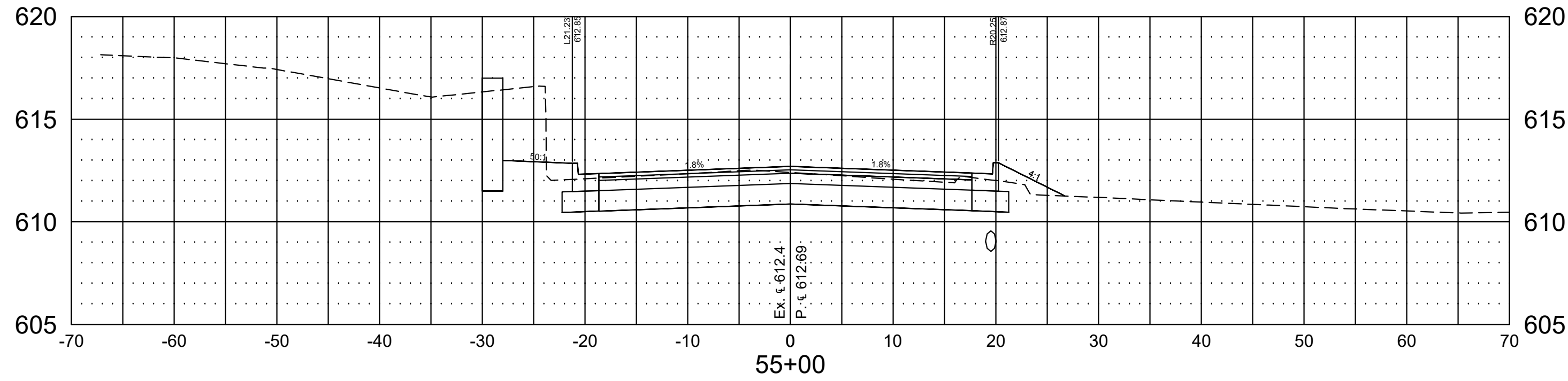
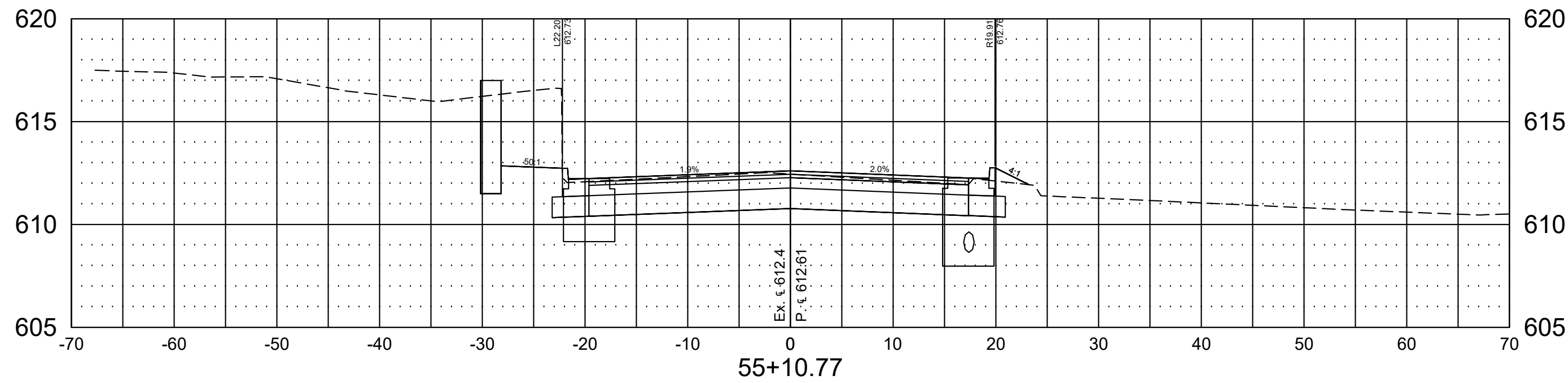
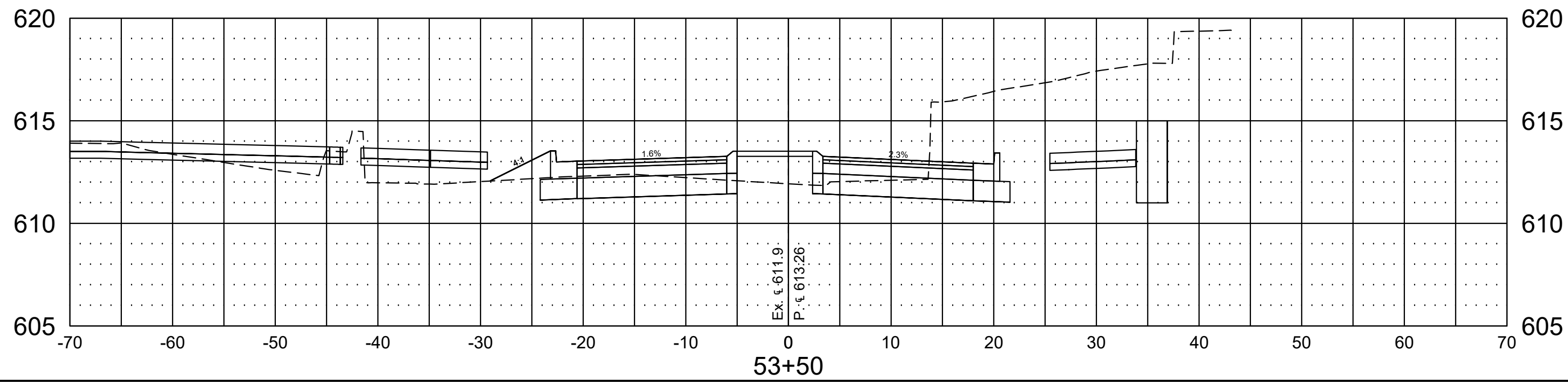
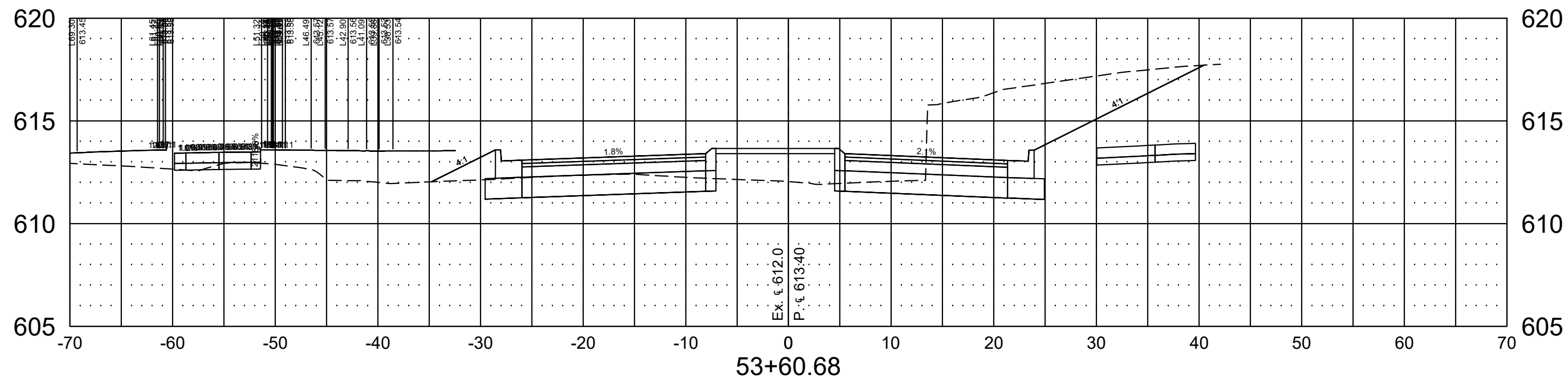
|                          |                 |          |      |
|--------------------------|-----------------|----------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | XX/XX/XX | DATE |
| DESIGNED:                | JLS             | DRAWN:   | RSP  |
| CHECKED:                 | KE              | CHECKED: | PWS  |

|                                              |  |
|----------------------------------------------|--|
| INDIANA DEPARTMENT OF TRANSPORTATION         |  |
| OBRIEN STREET SECTIONS                       |  |
| STA 52+00 TO STA 53+25                       |  |
| 4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT |  |

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=10'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| 1"=5'            | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 25 of 21    |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |



Save: 12/14/2020 11:00 AM pstepanovic Plot: 8/25/2021 5:50 PM X:\PT\US\SE\N\149193\5-final-dsgn\51-drawings\10-Civil\cadd\dwg\sheet149193XS-O'Brien Street.dwg



RECOMMENDED FOR APPROVAL \_\_\_\_\_  
DESIGN ENGINEER DATE XX/XX/XX

DRAWN: \_\_\_\_\_  
RSP

CHECKED: \_\_\_\_\_  
KE

CHECKED: \_\_\_\_\_  
PWS

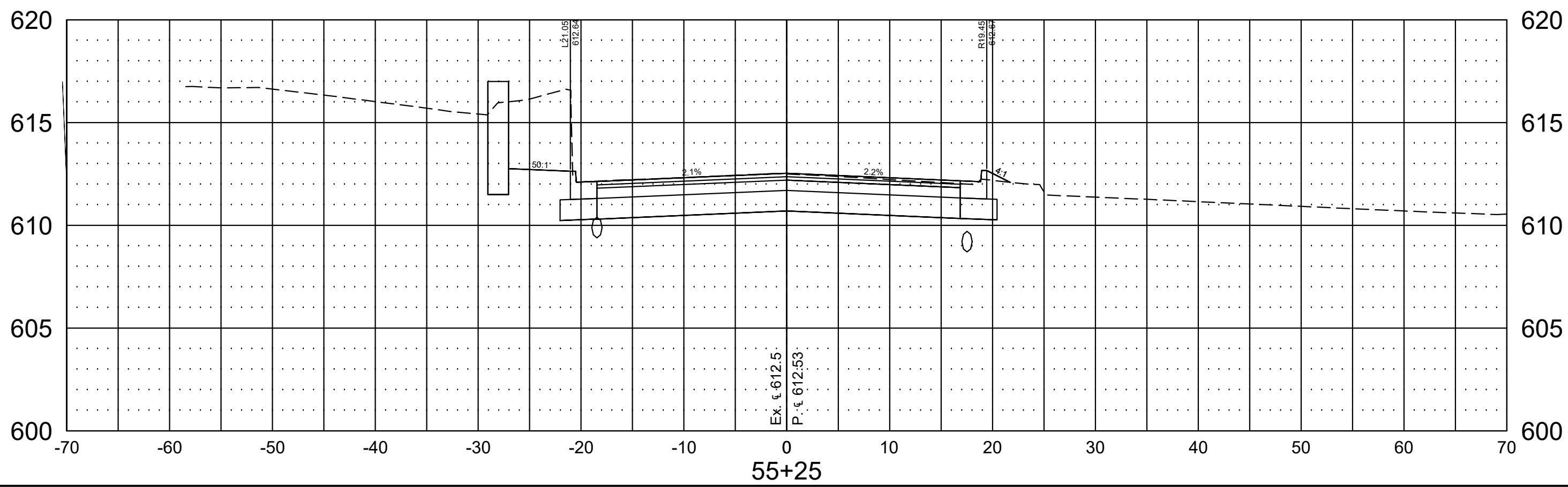
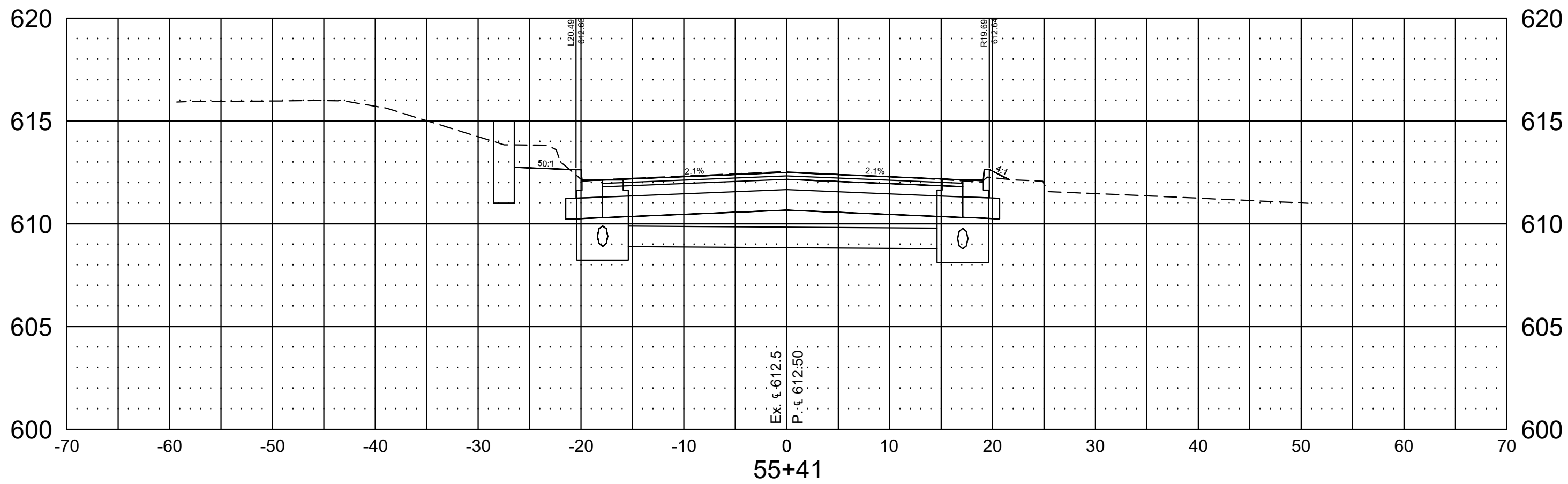
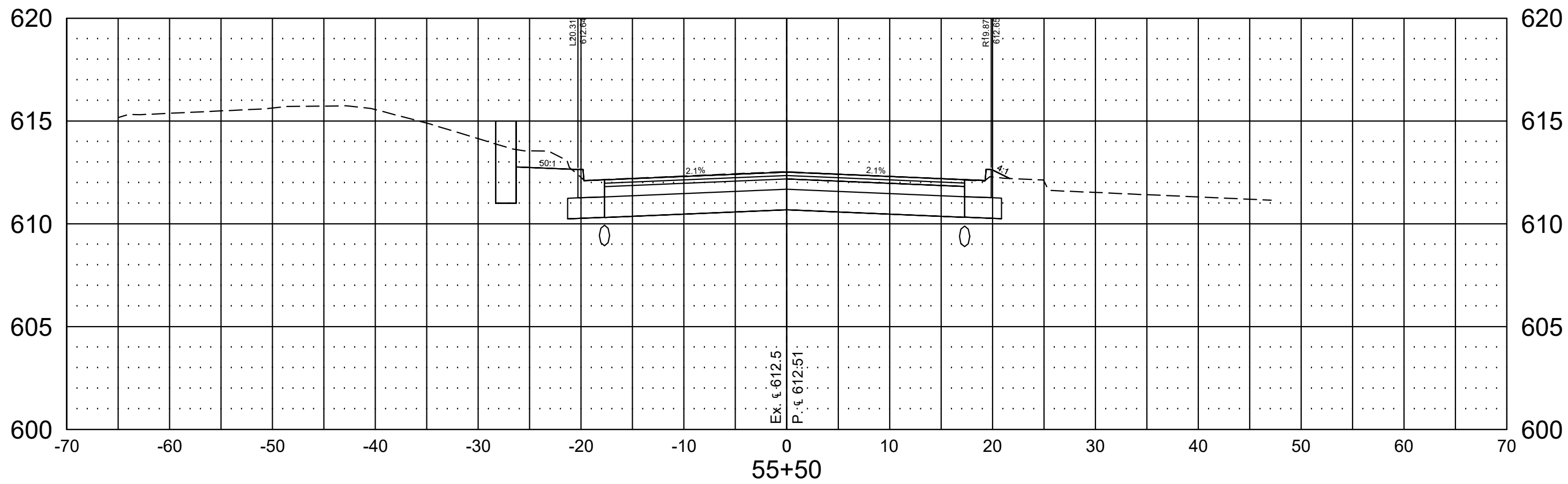
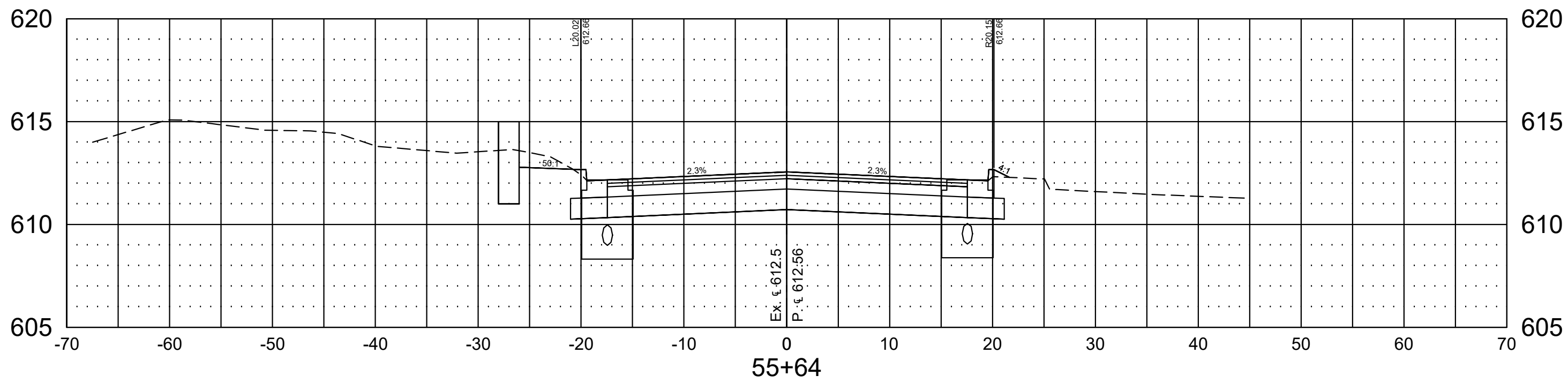
## INDIANA DEPARTMENT OF TRANSPORTATION

OBRIEN STREET SECTIONS  
STA 53+50 TO STA 55+10.77  
4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT

|                  |             |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1"=10'           | ---         |
| VERTICAL SCALE   | DESIGNATION |
| 1"=5'            | 1703015     |
| SURVEY BOOK      | SHEETS      |
| ---              | 26 of 21    |
| CONTRACT         | PROJECT     |
| R-40897          | 1703015     |



Save: 12/14/2020 11:00 AM pstepanovic Plot: 8/25/2021 5:50 PM X:\PT\SS\SE\YN\149193\5-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet\149193XS-O'Brien Street.dwg



|                                                                       |              |
|-----------------------------------------------------------------------|--------------|
| RECOMMENDED FOR APPROVAL _____<br>DESIGN ENGINEER<br>XX/XX/XX<br>DATE |              |
| DESIGNED: JLS                                                         | DRAWN: RSP   |
| CHECKED: KE                                                           | CHECKED: PWS |

|                                                                                                  |  |
|--------------------------------------------------------------------------------------------------|--|
| INDIANA DEPARTMENT OF TRANSPORTATION                                                             |  |
| OBRIEN STREET SECTIONS<br>STA 55+25 TO STA 55+64<br>4TH ST & O'BRIEN ST INTERSECTION IMPROVEMENT |  |

|                            |                        |
|----------------------------|------------------------|
| HORIZONTAL SCALE<br>1"=10' | BRIDGE FILE<br>---     |
| VERTICAL SCALE<br>1"=5'    | DESIGNATION<br>1703015 |
| SURVEY BOOK<br>---         | SHEETS<br>27 of 21     |
| CONTRACT<br>R-40897        | PROJECT<br>1703015     |