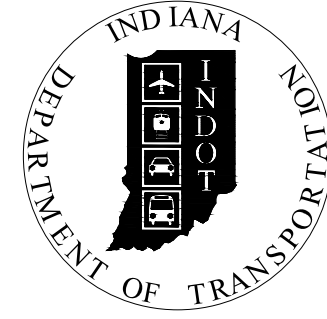


| | |
|----------|-------------|
| PROJECT | DESIGNATION |
| 1900330 | 1900330 |
| CONTRACT | BRIDGE FILE |
| R-42238 | N/A |

| | |
|----------------|------------------|
| CULVERT ASSETS | |
| DES. NO. | CULVERT ASSET ID |
| 1900330 | CV 246-060-30.50 |

| KIN PROJECT INFORMATION | |
|-------------------------|---|
| DESIGNATION | PROJECT DESCRIPTION |
| 1900312 | SMALL STRUCTURE PIPE LINING ON S.R. 59 OVER UNT TO CONNELEY DITCH, 0.01 MILES EAST OF S.R. 246/S.R. 59 INTERSECTION |
| 1900315 (LEAD) | SMALL STRUCTURE REPLACEMENT WITH A BRIDGE ON S.R. 59 OVER UNT TO HOWESVILLE DITCH, 2.08 MILES NORTH OF S.R. 48 |
| 1900330 | SMALL STRUCTURE REPLACEMENT ON S.R. 246 OVER UNT TO LICK CREEK, 7.39 MILES WEST OF S.R. 46 |

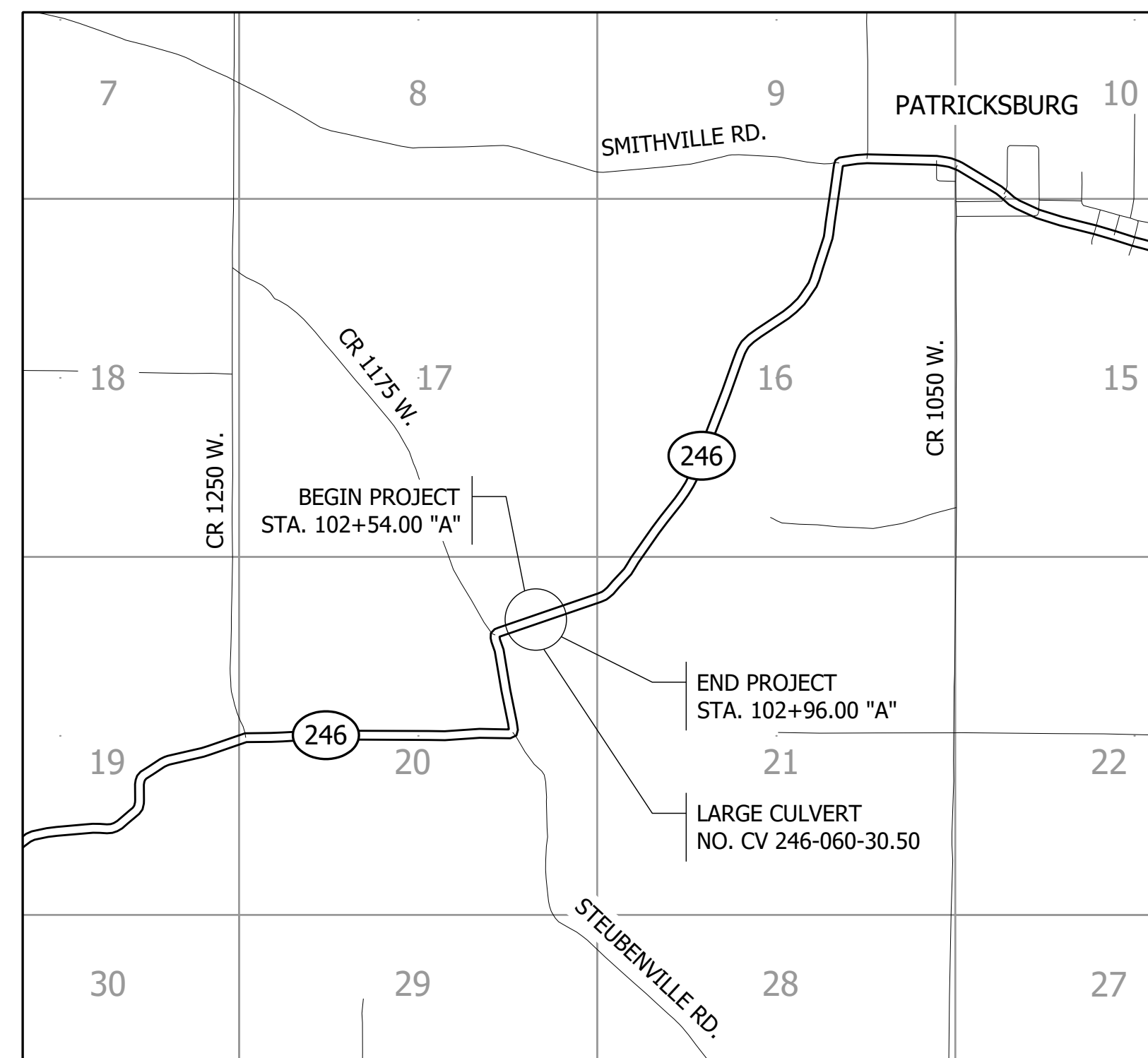
INDIANA DEPARTMENT OF TRANSPORTATION



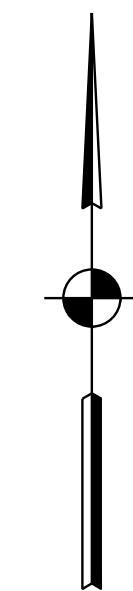
ROAD PLANS

ROUTE: S.R. 246 AT: RP 30+50
 PROJECT NO. 1900330 P.E.
 1900330 R/W
 1900330 CONST.

SMALL STRUCTURE REPLACEMENT ON S.R. 246 OVER UNT TO LICK CREEK, APPROXIMATELY 7.39 MILES WEST OF S.R. 46 LOCATED IN SECTION 20, T-10-N, R-5-W, MARION TOWNSHIP, OWEN COUNTY, INDIANA

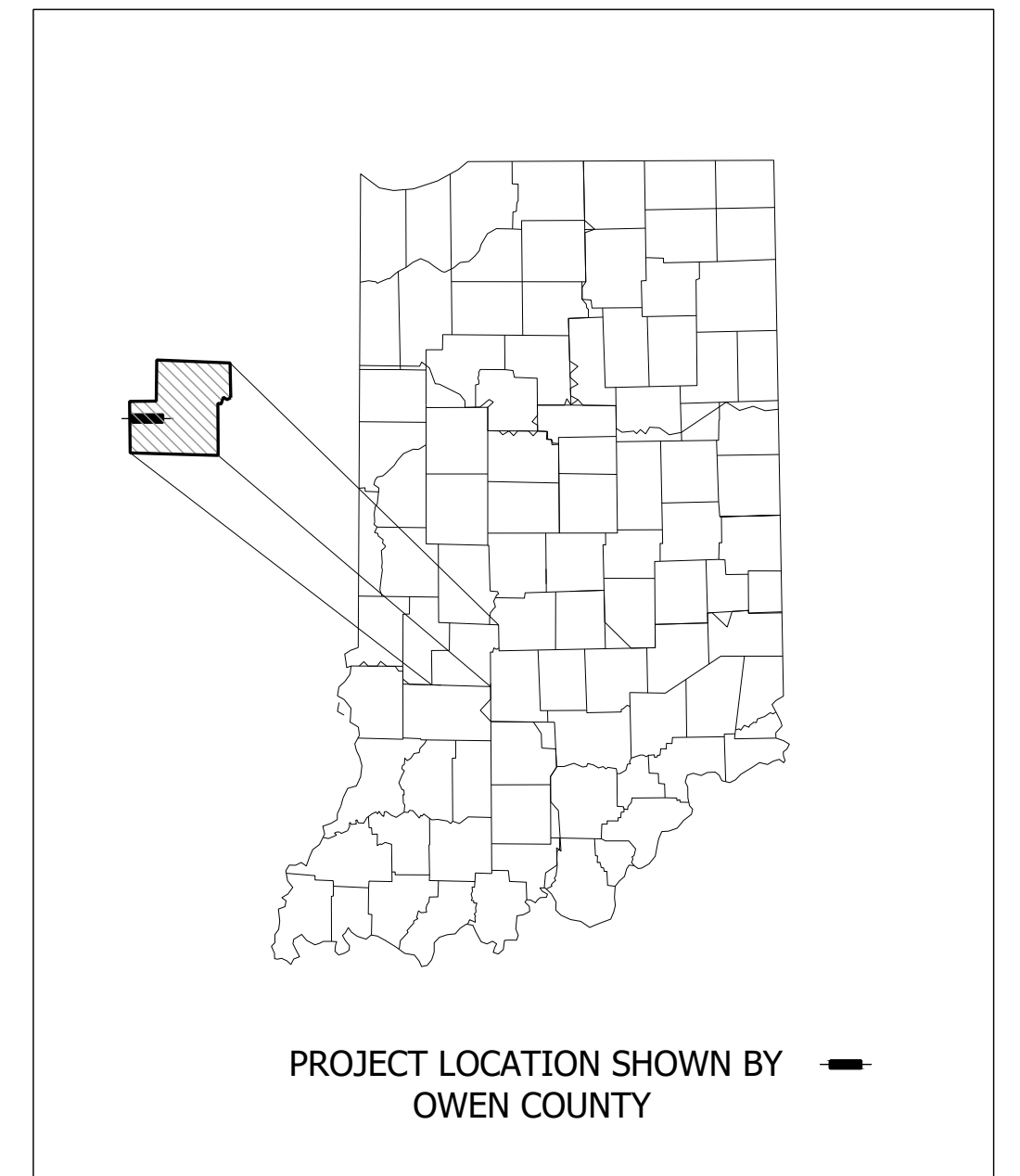


STAGE 2 PLANS
APRIL 2022



SCALE:
1" = 2000'

| TRAFFIC DATA | S.R. 246 |
|---------------------------|------------------------------|
| A.A.D.T. (2024) | 525 V.P.D. |
| A.A.D.T. (2044) | 580 V.P.D. |
| D.H.V. (2044) | 76 V.P.H. |
| DIRECTIONAL DISTRIBUTION | 50% |
| TRUCKS | 7.0% D.H.V. 5.0% A.A.D.T. |
| DESIGN DATA | |
| DESIGN SPEED | 55 M.P.H. |
| PROJECT DESIGN CRITERIA | 3R (NON-FREEWAY) |
| FUNCTIONAL CLASSIFICATION | MAJOR COLLECTOR |
| RURAL/URBAN | RURAL |
| TERRAIN | LEVEL |
| ACCESS CONTROL | NONE |



LATITUDE: 39°17'43" N LONGITUDE: 86°58'59" W

| | | |
|-----------------|-------|-----|
| BRIDGE LENGTH: | 0.000 | MI. |
| ROADWAY LENGTH: | 0.008 | MI. |
| TOTAL LENGTH: | 0.008 | MI. |
| MAX. GRADE: | 0.06 | % |

H.U.C. 051202030806



INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2022 TO
BE USED WITH THESE PLANS.

| | | | |
|--------------------|--------------------------------------|------------------------------|-------------|
| PRELIMINARY | PLANS PREPARED BY: CORRADINO, LLC | 317-488-2363 PHONE NUMBER | BRIDGE FILE |
| | CERTIFIED BY: _____ | DATE | N/A |
| | APPROVED FOR LETTING: _____ | DATE | DESIGNATION |
| | INDIANA DEPARTMENT OF TRANSPORTATION | DATE | 1900330 |
| | | | SHEET |
| | | | 1 of 15 |
| | CONTRACT R-42238 | PROJECT 1900330 | |

UTILITIES

ELECTRIC:

HOOSIER ENERGY
 TIM EMMEL
 7398 STATE ROAD 37 NORTH
 BLOOMINGTON, IN 47404
 TEMMEL@HEPN.COM
 812-876-0545

COMMUNICATIONS:

MATTHEW EMMERICH
 2 S. WEST STREET
 PO BOX 258
 CLOVERDALE, IN 46120
 765-795-5554

GENERAL NOTES

- ALL EARTHEN SHOULDERS, MEDIAN AREAS, AND CUT AND FILL SLOPES SHALL BE PLAIN OR MULCH SEEDED EXCEPT WHERE SODDING IS SPECIFIED.

INDEX

| SHEET NO. | DESIGNATION |
|-----------|-------------------------|
| 1 | TITLE |
| 2 | INDEX AND GENERAL NOTES |
| 3 | TYPICAL SECTIONS |
| 4 | PLAT NO. 1 |
| 5 - 6 | MAINTENANCE OF TRAFFIC |
| 7 | PLAN AND PROFILE |
| 8 | GENERAL PLAN |
| 9 | EROSION CONTROL DETAILS |
| 10 | SUMMARY TABLES |
| 11 - 15 | CROSS SECTIONS |



REVISIONS

| SHEET NO. | DATE | REVISED |
|-----------|------|---------|
| | | |
| | | |
| | | |
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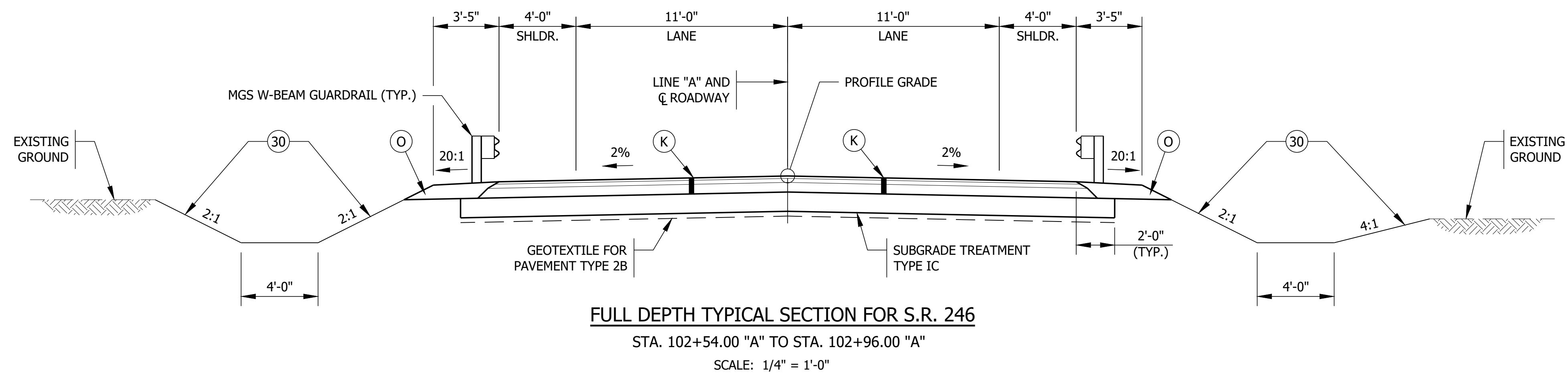
PRELIMINARY

| | | |
|--------------------------------|-----------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____ | DATE _____ |
| DESIGNED: ZRE | DRAWN: SEJ | |
| CHECKED: ZZH | CHECKED: ZRE | |

INDIANA
DEPARTMENT OF TRANSPORTATION

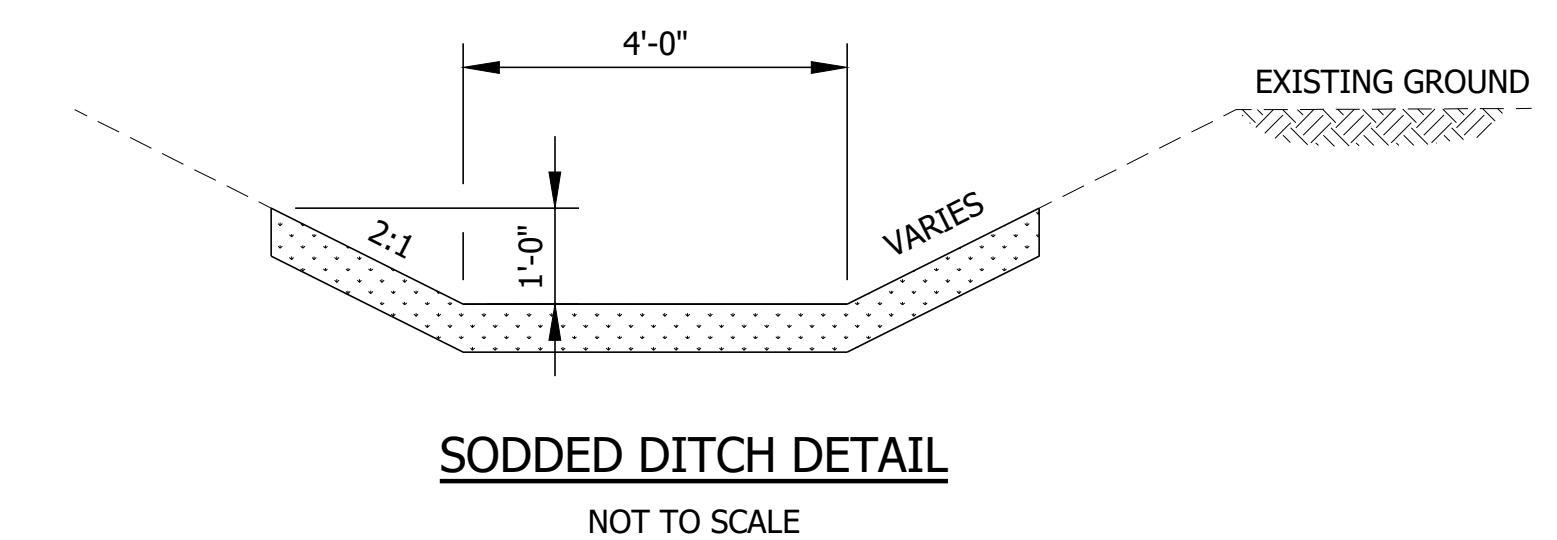
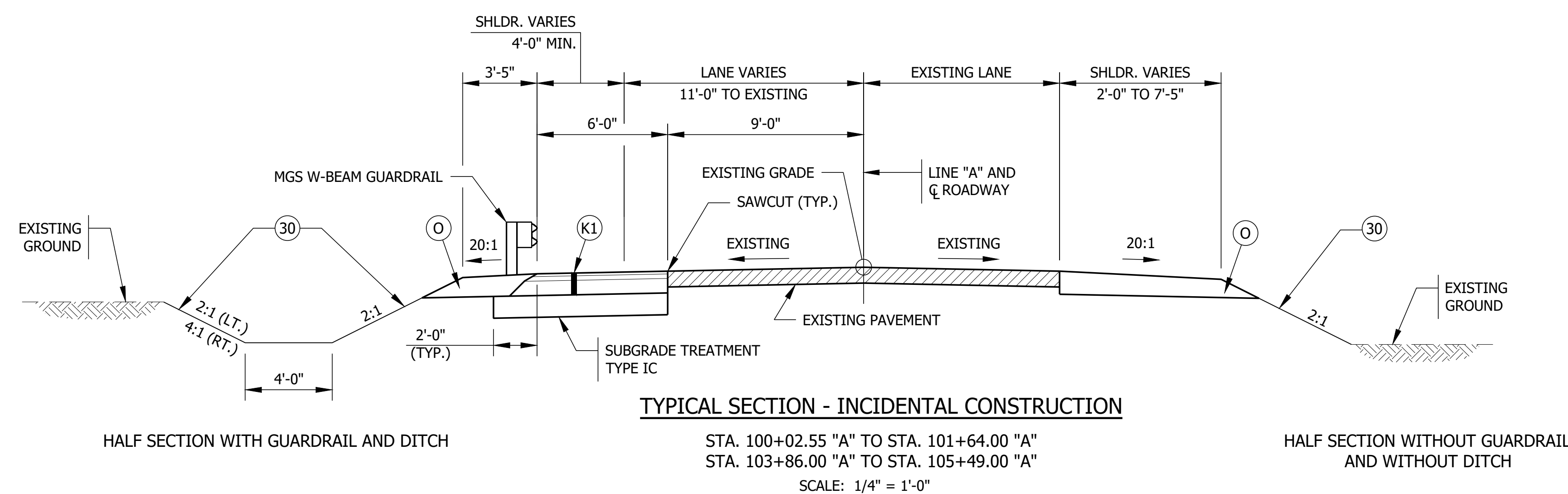
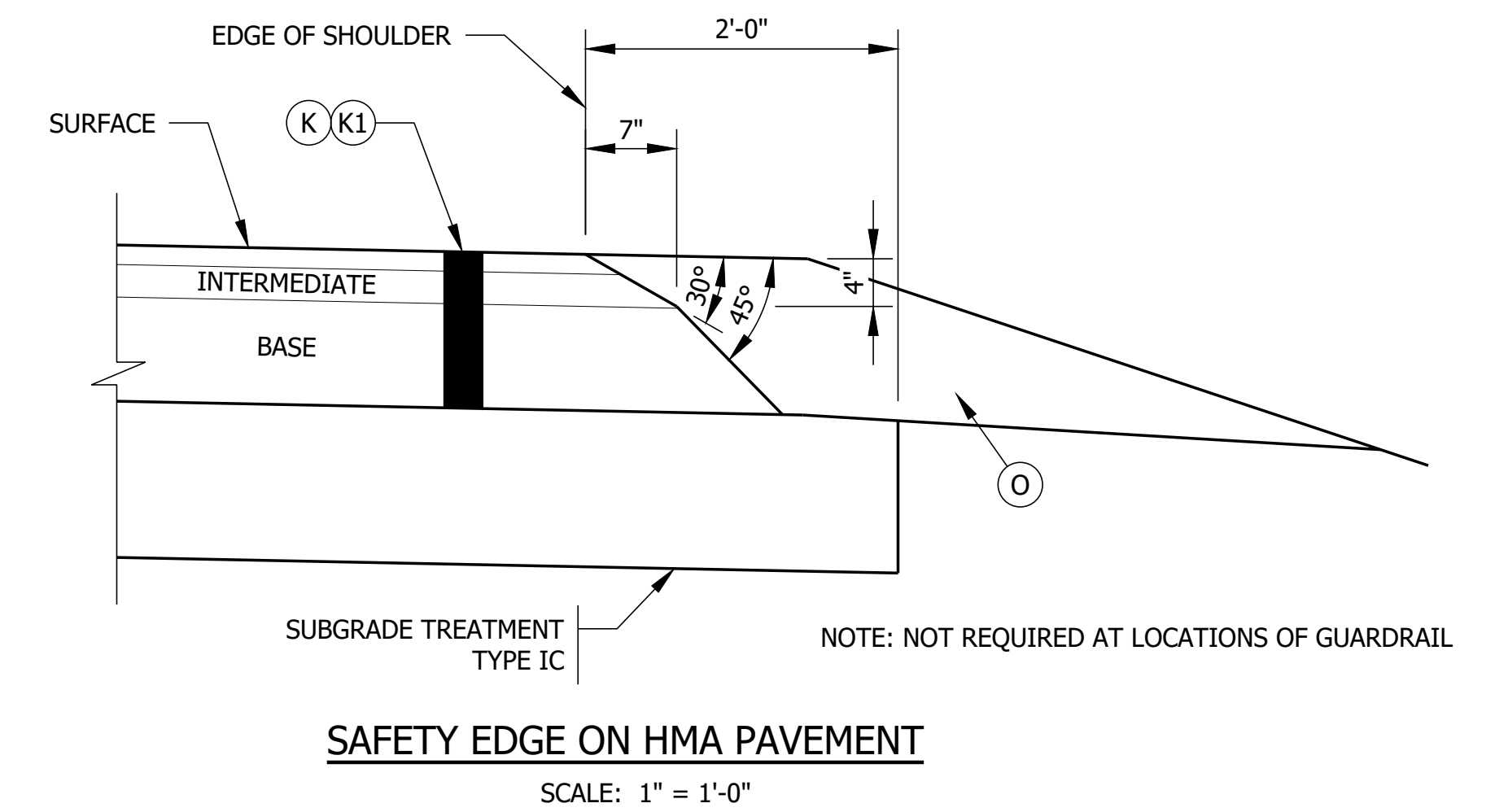
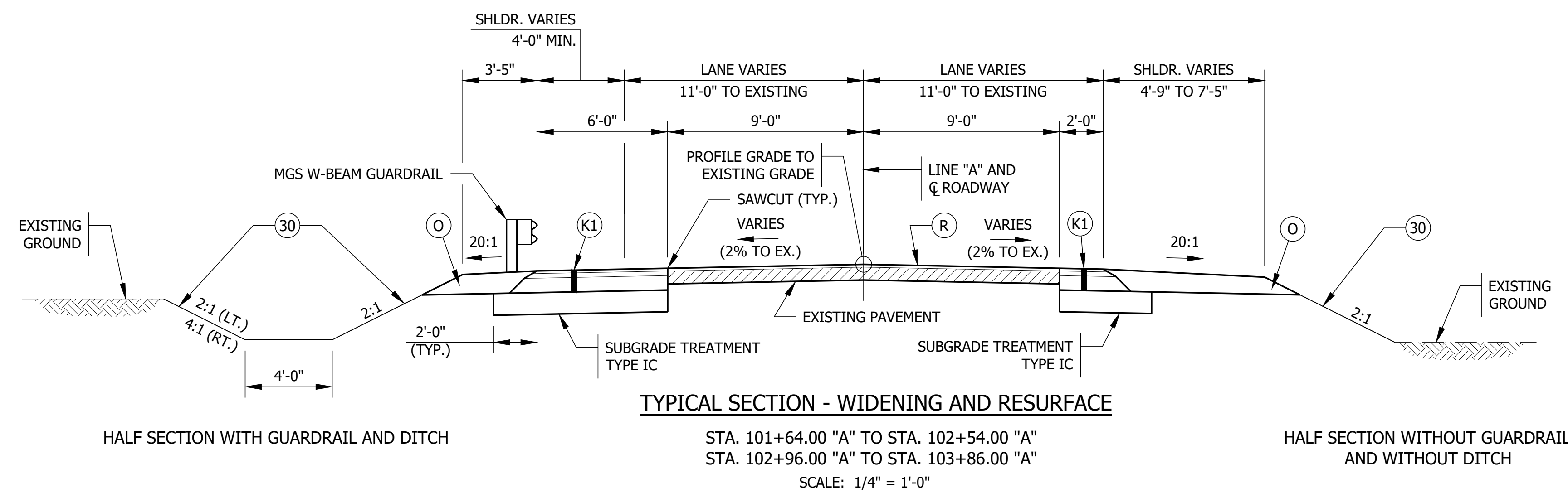
INDEX AND GENERAL NOTES

| | |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| N/A | N/A |
| VERTICAL SCALE | DESIGNATION |
| | 1900330 |
| | SHEET |
| | 2 of 15 |
| CONTRACT | PROJECT |
| R-42238 | 1900330 |



LEGEND

- (K) 165 LBS/SYD QC/QA HMA, 3, 64, SURFACE, 9.5MM ON
275 LBS/SYD QC/QA HMA, 3, 64, INTERMEDIATE, 19.0MM ON
660 LBS/SYD QC/QA HMA, 3, 64, BASE, 25.0MM
- TACK COAT TO BE PLACED BETWEEN HMA LAYERS. JOINT ADHESIVE TO BE INSTALLED AT ALL LONGITUDINAL JOINTS IN THE SURFACE AND INTERMEDIATE LAYER. LIQUID ASPHALT SEALANT TO BE PLACED CENTERED ON THE LONGITUDINAL JOINTS THAT HAVE JOINT ADHESIVE INSTALLED.
- (O) 10" COMPACTED AGGREGATE, NO. 53
- (30) EROSION CONTROL BLANKET, WITH MULCHED SEEDING R
- (R) 165 LBS/SYD QC/QA HMA, 3, 64, SURFACE, 9.5MM ON
TRANSITION MILLING
- (K1) WIDENING OF HMA TYPE B CONSISTING OF:
165 LBS/SYD QC/QA HMA, 3, 64, SURFACE, 9.5MM ON
275 LBS/SYD HMA INTERMEDIATE, TYPE B ON
660 LBS/SYD HMA BASE, TYPE B



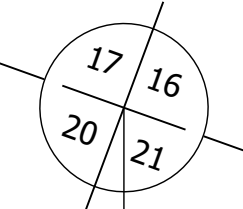
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| | DESIGNED: ZRE DRAWN: SEJ | | AS NOTED | N/A |
| | CHECKED: ZZH CHECKED: ZRE | TYPICAL SECTIONS | VERTICAL SCALE | DESIGNATION |
| | | | R-42238 | 1900330 |
| | | | SHEET | 3 of 15 |
| | | | PROJECT | 1900330 |

100+00
101+00
102+00
103+00
104+00
105+00

SECTION LINE

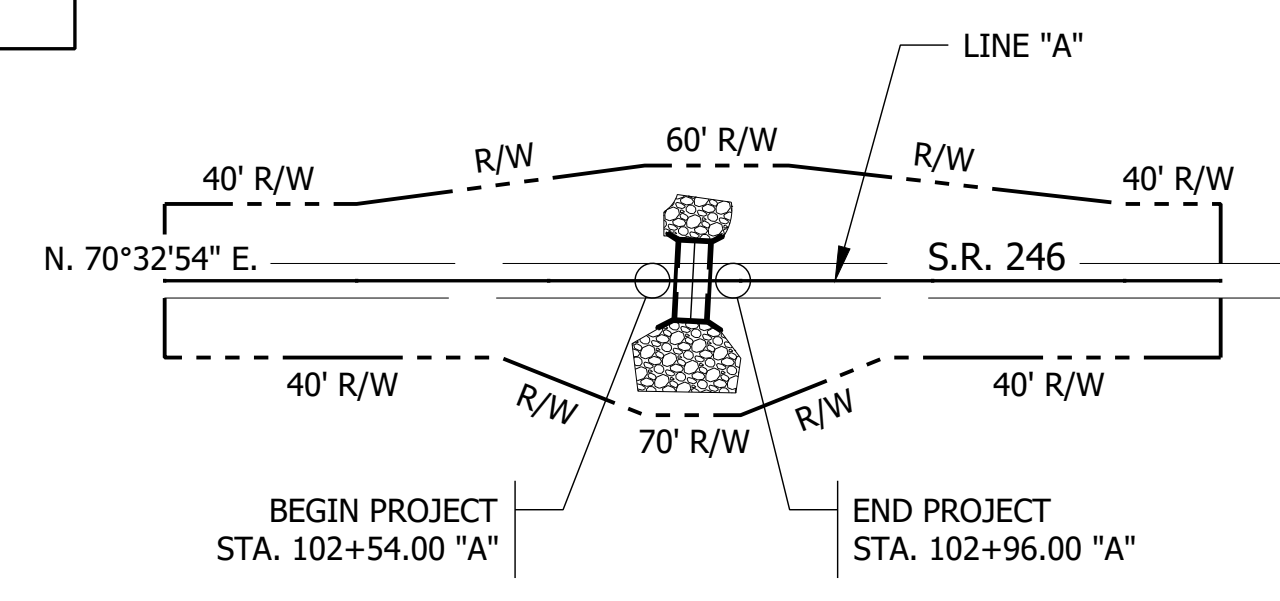


SECTION CORNER

SECTION 20, T-10-N, R-5-W
MARION TOWNSHIP
OWEN COUNTY

UNT TO
LICK CREEK

JOHN R. MILLER



E.P.
E.P.

BEGIN PROJECT
STA. 102+54.00 "A"
END PROJECT
STA. 102+96.00 "A"

JOHN R. MILLER

SECTION LINE

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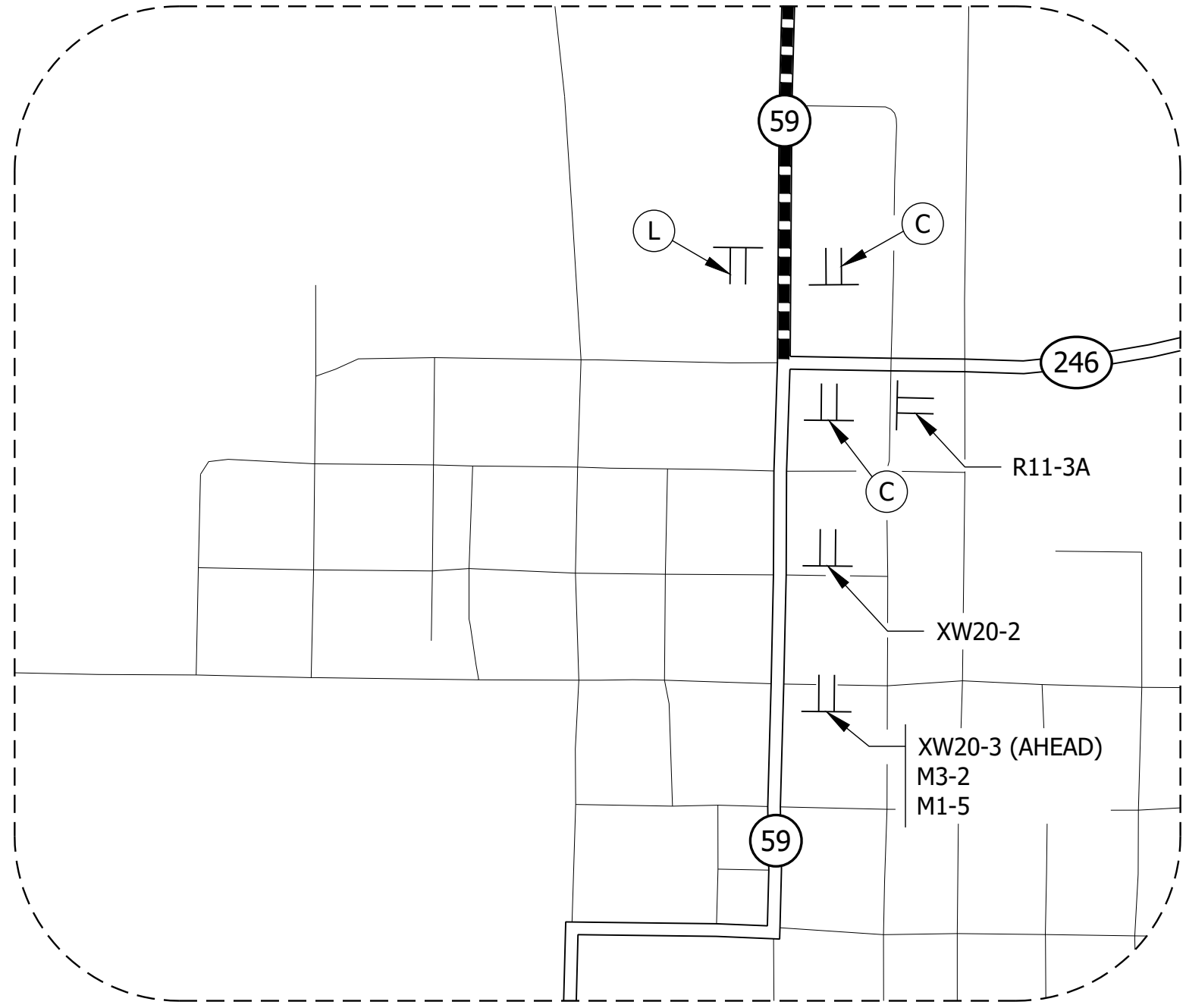
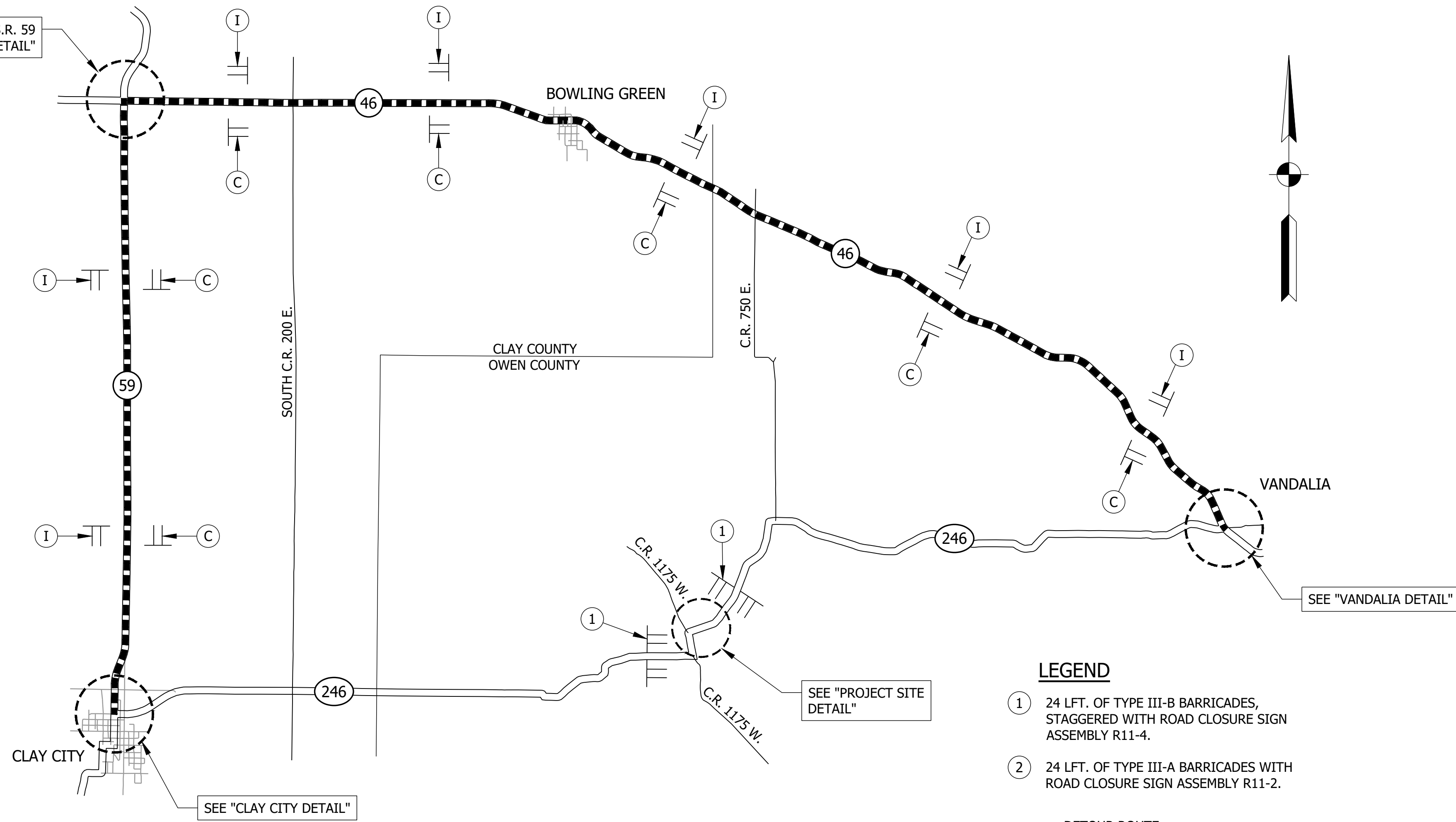
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| RECOMMENDED FOR APPROVAL _____ | | |
| DESIGNED: ZRE | DRAWN: SEJ | DATE _____ |
| CHECKED: ZZH | CHECKED: ZRE | |

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT NO. 1

| | |
|------------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1" = 100' UNLESS NOTED | N/A |
| VERTICAL SCALE | DESIGNATION |
| | 1900330 |
| | SHEET |
| | 4 of 15 |
| CONTRACT | PROJECT |
| R-42238 | 1900330 |

SEE "S.R. 46/S.R. 59 INTERSECTION DETAIL"



CLAY CITY DETAIL
NOT TO SCALE

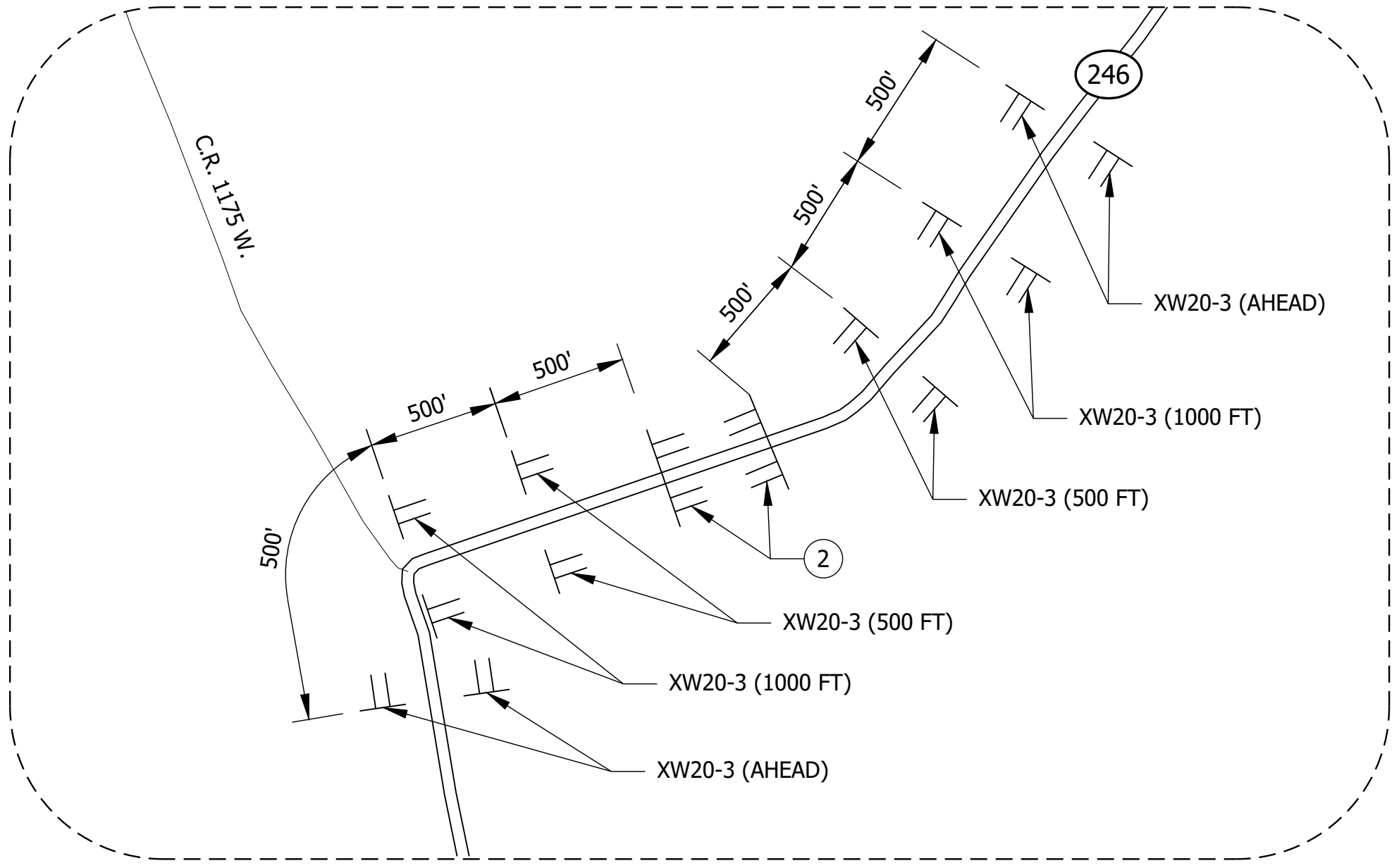
LEGEND

- ① 24 LFT. OF TYPE III-B BARRICADES, STAGGERED WITH ROAD CLOSURE SIGN ASSEMBLY R11-4.
- ② 24 LFT. OF TYPE III-A BARRICADES WITH ROAD CLOSURE SIGN ASSEMBLY R11-2.
- DETOUR ROUTE
- TT SIGN ASSEMBLY

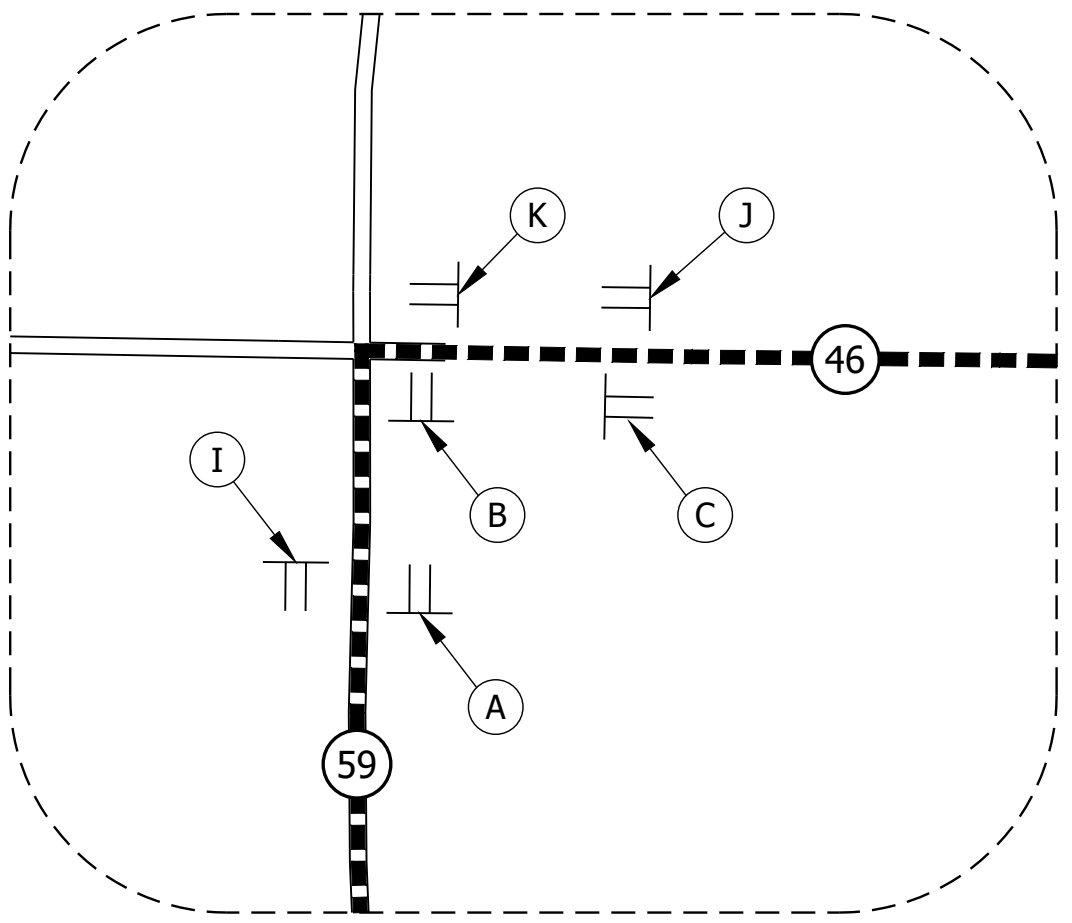
SEE "PROJECT SITE DETAIL"

SEE "VANDALIA DETAIL"

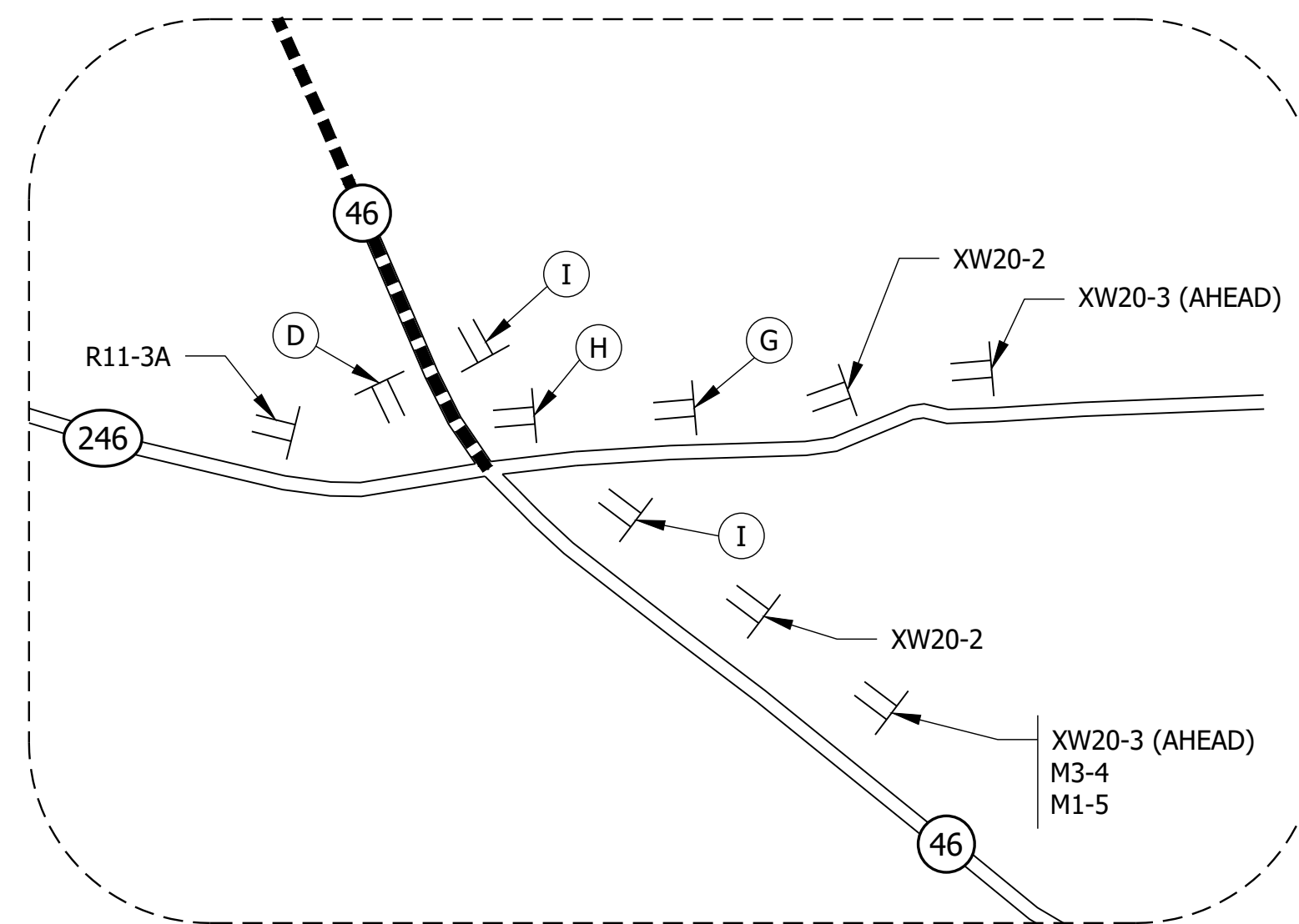
SEE "CLAY CITY DETAIL"



PROJECT SITE DETAIL
NOT TO SCALE



S.R. 59/S.R. 46 INTERSECTION DETAIL
NOT TO SCALE

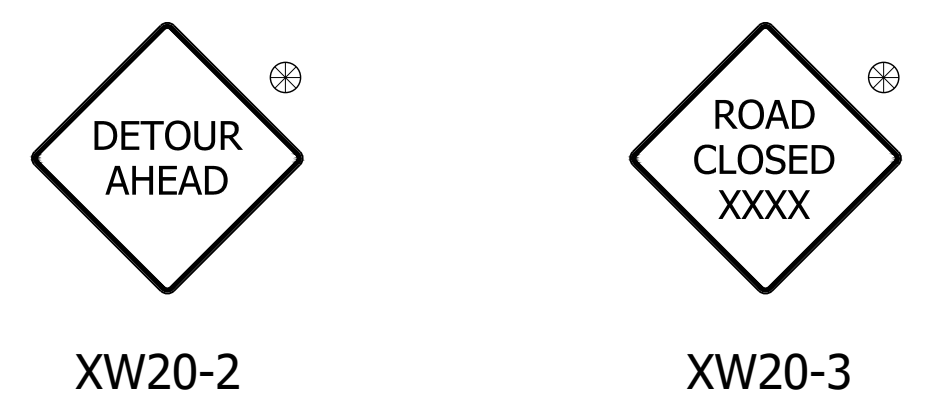
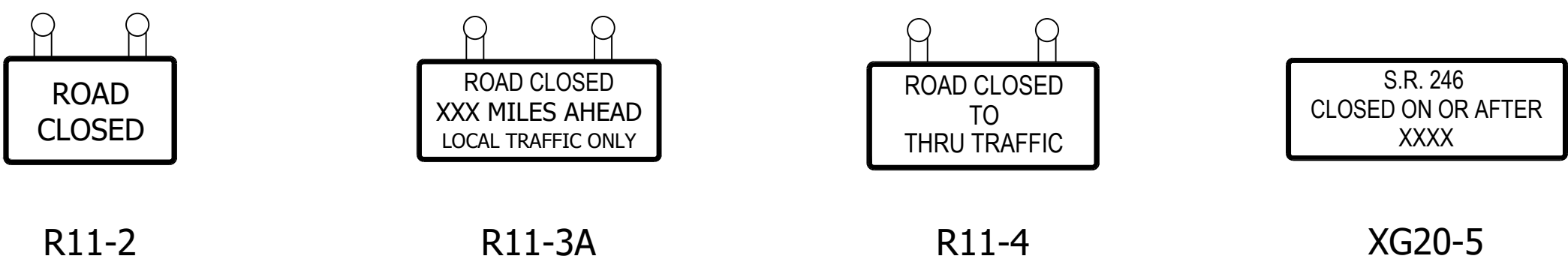
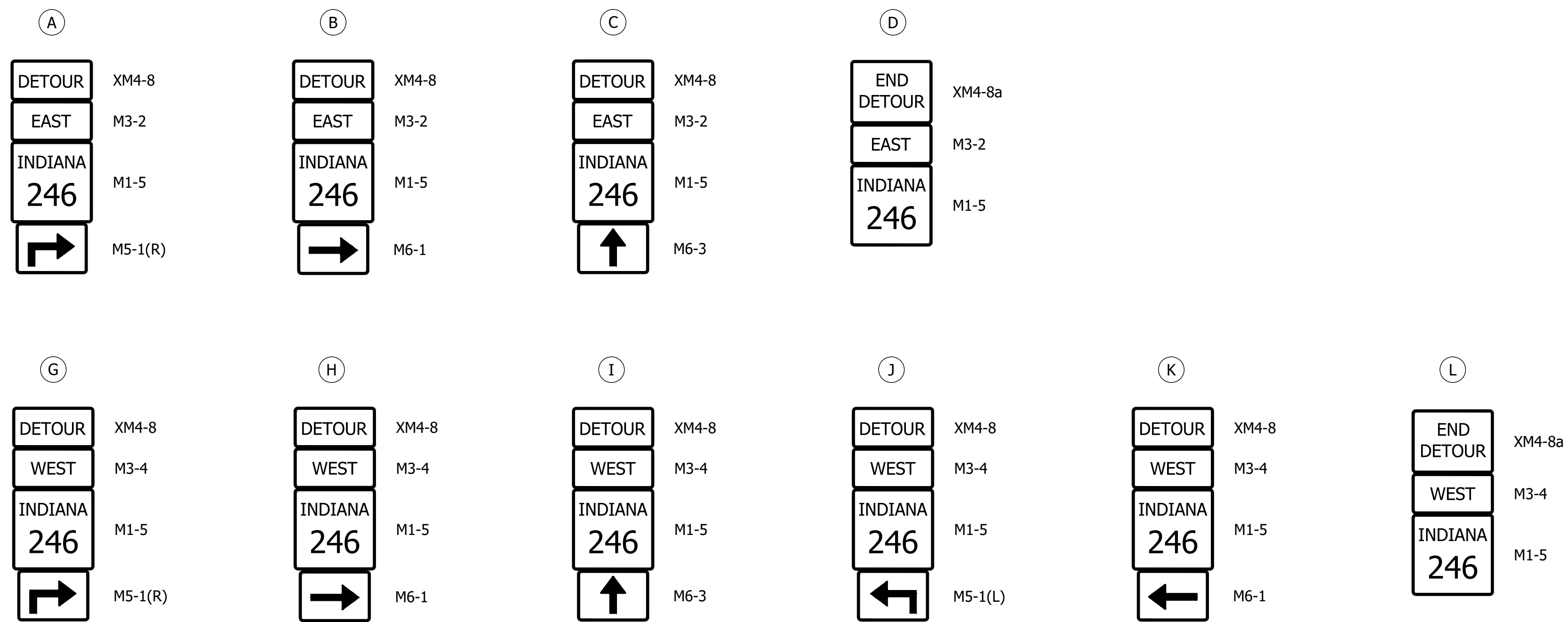


VANDALIA DETAIL
NOT TO SCALE

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| PRELIMINARY | RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____ | INDIANA DEPARTMENT OF TRANSPORTATION MAINTENANCE OF TRAFFIC | HORIZONTAL SCALE 1" = 5000' UNLESS NOTED | BRIDGE FILE N/A |
| | DESIGNED: ZRE DRAWN: PMK | | VERTICAL SCALE | DESIGNATION 1900330 |
| | CHECKED: ZZH CHECKED: ZRE | | CONTRACT R-42238 | SHEET 5 of 15 |
| | | | PROJECT 1900330 | |



| CONSTRUCTION SIGN SCHEDULE | | | | |
|----------------------------|--------------------------------|------------|------------------------------|-----------|
| SIGN NO. | DESCRIPTION | SIZE (FT.) | TYPE | EST. QTY. |
| XG20-5 | S.R. 246 CLOSED ON OR AFTER XX | 5 X 3 | A | 2 |
| XW20-2 | DETOUR AHEAD | 4 X 4 | A | 3 |
| XW20-3 | ROAD CLOSED XXXX | 4 X 4 | A | 15 |
| M3-2 | CARDINAL DIRECTION (EAST) | 3 X 1.5 | B | 1 |
| M3-4 | CARDINAL DIRECTION (WEST) | 3 X 1.5 | B | 1 |
| M1-5 | INDIANA 246 | 2.5 X 2 | B | 2 |
| R11-2 | ROAD CLOSED | 4 X 2.5 | - | 2 |
| R11-3A | ROAD CLOSED XX MILES | 5 X 2.5 | - | 2 |
| R11-4 | ROAD CLOSED TO THRU TRAFFIC | 5 X 2.5 | - | 2 |
| | | | TOTAL TYPE "A" SIGNS | 20 |
| | | | TOTAL TYPE "B" SIGNS | 4 |
| | | | ROAD CLOSURE SIGN ASSEMBLIES | 6 |

DETOUR ROUTE MARKER ASSEMBLIES: 28 REQ'D
 TYPE III-A BARRICADES: 48 LFT.
 TYPE III-B BARRICADES: 48 LFT.

* DETOUR ROUTE MARKER ASSEMBLIES SHALL BE IN ACCORDANCE WITH STD. DWG. 801-TCDT-04.

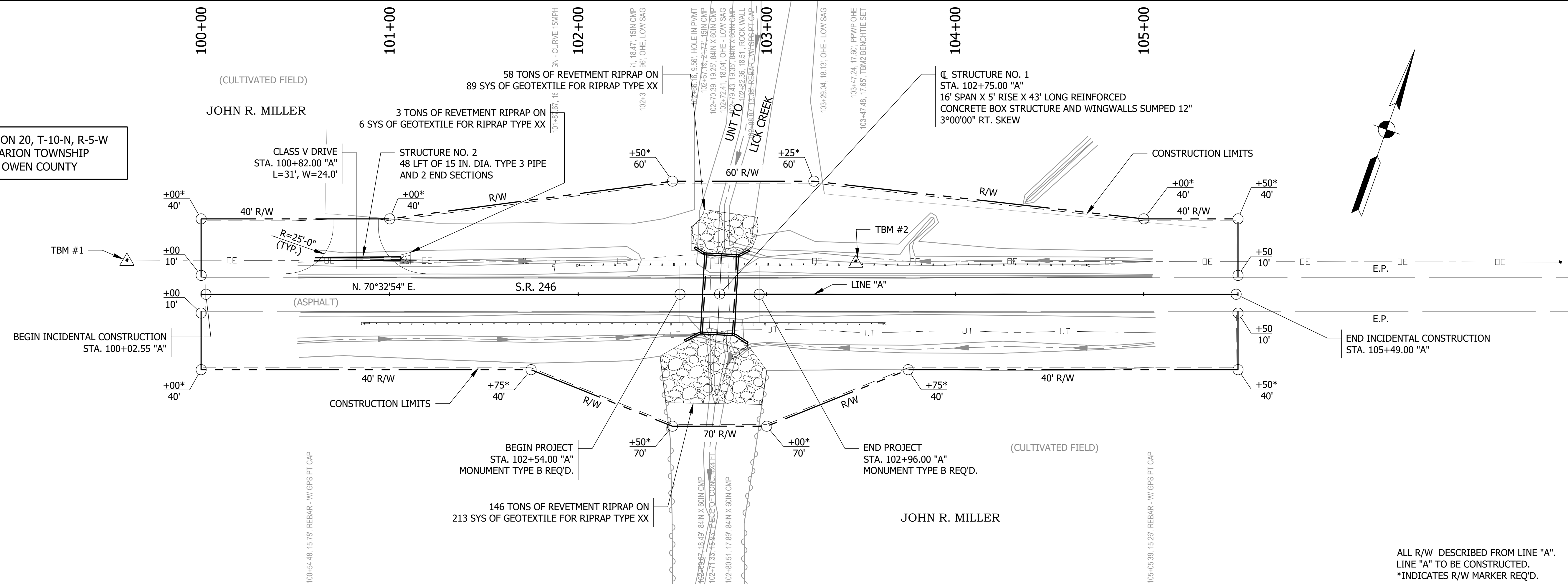
* TYPE B CONSTRUCTION WARNING LIGHTS SHALL BE USED WITH ALL SIGNS LOCATED ON BARRICADES AND AS SHOWN. TYPE A CONSTRUCTION WARNING LIGHTS SHALL BE USED ON ALL OTHER CONSTRUCTION SIGNS. (NOT PAY ITEMS.)

* TWO XG20-5 SIGNS TO BE PLACED AS DIRECTED BY THE ENGINEER.

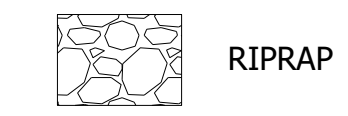
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| PRELIMINARY | RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE AS NOTED | BRIDGE FILE N/A |
| | DESIGNED: ZRE DRAWN: PMK | | VERTICAL SCALE | DESIGNATION 1900330 |
| | CHECKED: ZZH CHECKED: ZRE | | SHEET 6 of 15 | |
| | | | CONTRACT R-42238 | PROJECT 1900330 |

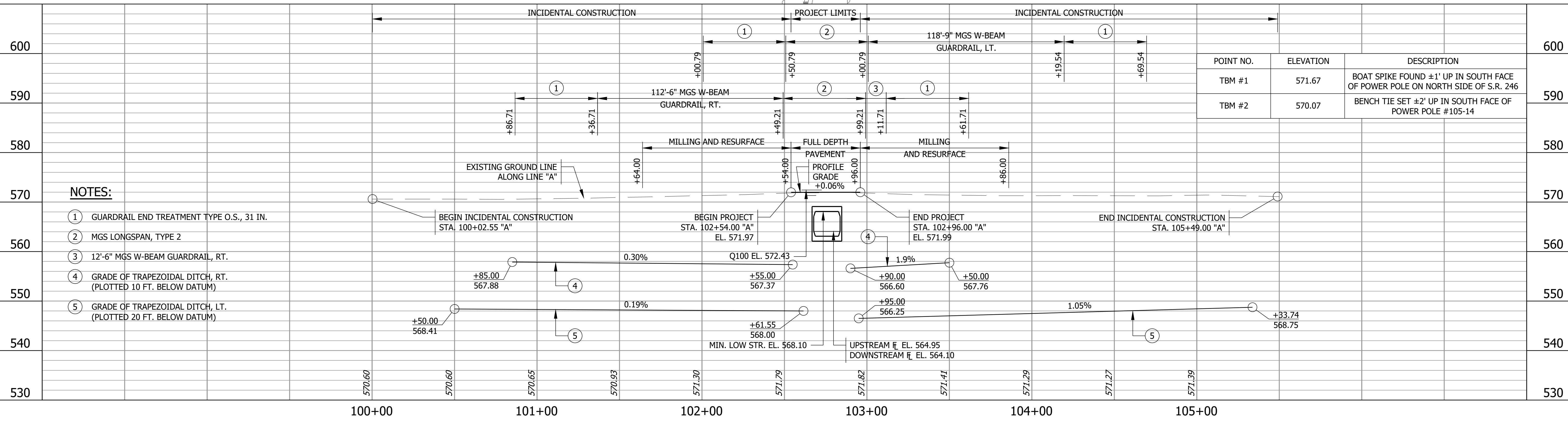
SECTION 20, T-10-N, R-5-W
MARION TOWNSHIP
OWEN COUNTY



LEGEND



ALL R/W DESCRIBED FROM LINE "A".
LINE "A" TO BE CONSTRUCTED.
*INDICATES R/W MARKER REQ'D.



NOTES:

- ① GUARDRAIL END TREATMENT TYPE O.S., 31 IN.
- ② MGS LONGSPAN, TYPE 2
- ③ 12'-6" MGS W-BEAM GUARDRAIL, RT.
- ④ GRADE OF TRAPEZOIDAL DITCH, RT. (PLOTTED 10 FT. BELOW DATUM)
- ⑤ GRADE OF TRAPEZOIDAL DITCH, LT. (PLOTTED 20 FT. BELOW DATUM)

| POINT NO. | ELEVATION | DESCRIPTION |
|-----------|-----------|---|
| TBM #1 | 571.67 | BOAT SPIKE FOUND ±1' UP IN SOUTH FACE OF POWER POLE ON NORTH SIDE OF S.R. 246 |
| TBM #2 | 570.07 | BENCH TIE SET ±2' UP IN SOUTH FACE OF POWER POLE #105-14 |

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| | | |
|---|---|---|
| 800 NORTH: 170945.6168 EAST: 763589.8819 P.O.T. Sta. 100+00.00 LINE "A" | 801 NORTH: 171037.1947 EAST: 763849.1858 P.O.T. Sta. 102+75.00 LINE "A" | 802 NORTH: 171128.7726 EAST: 764108.4896 P.O.T. Sta. 105+00.00 LINE "A" |
|---|---|---|

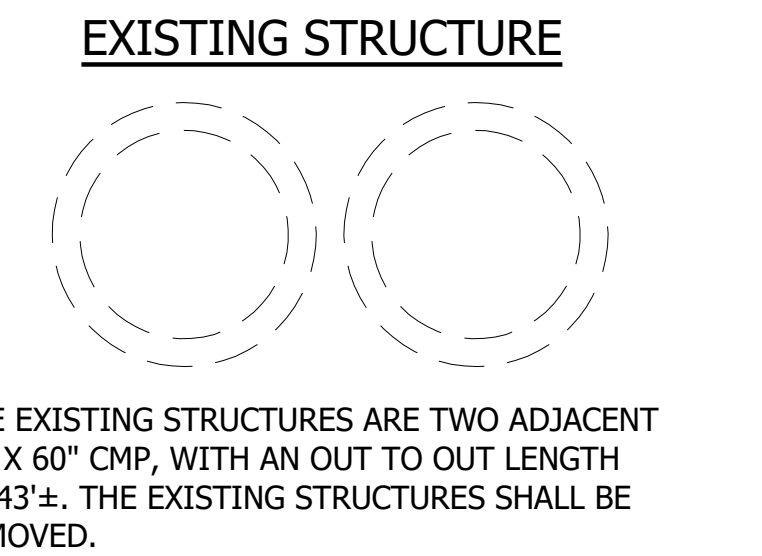
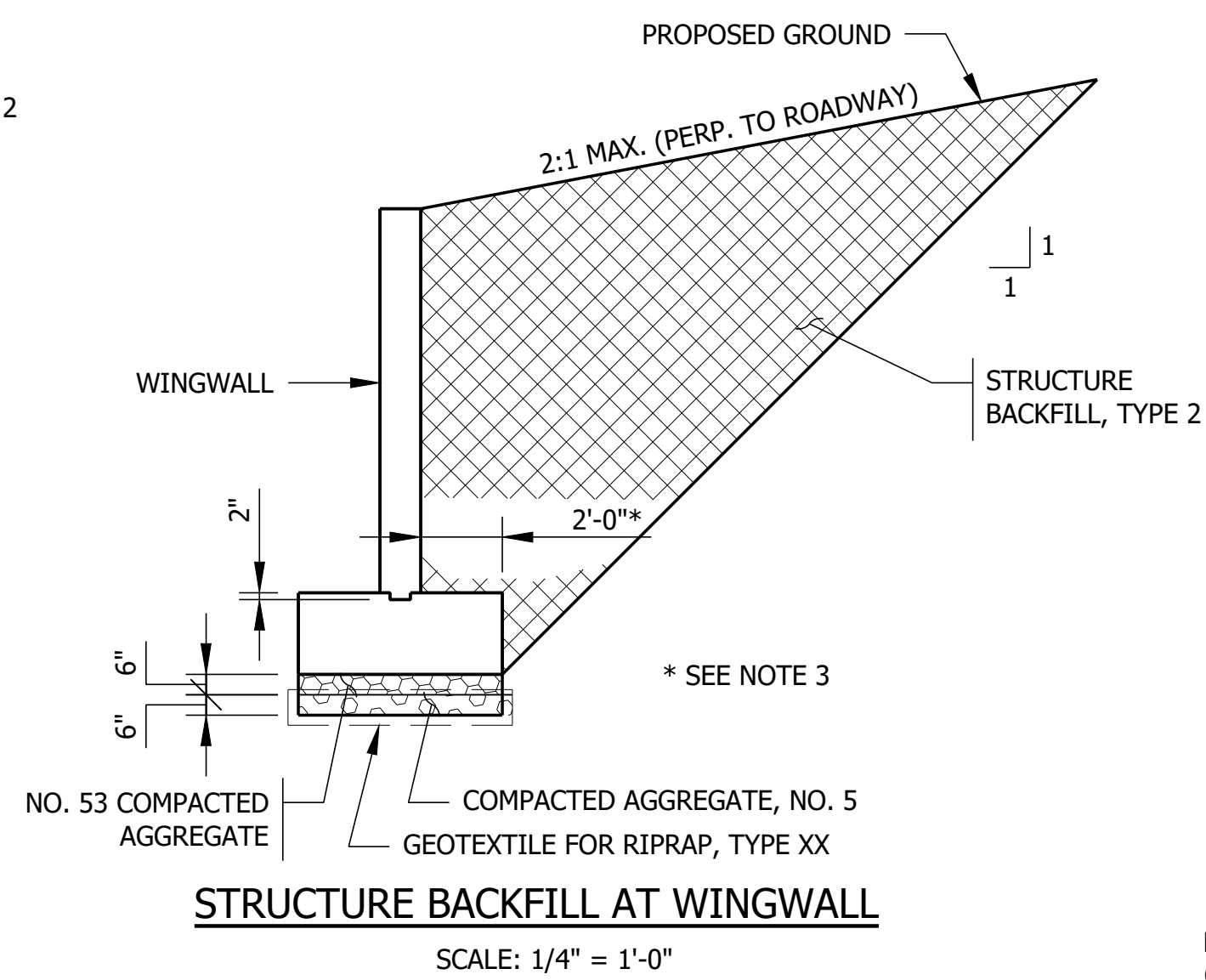
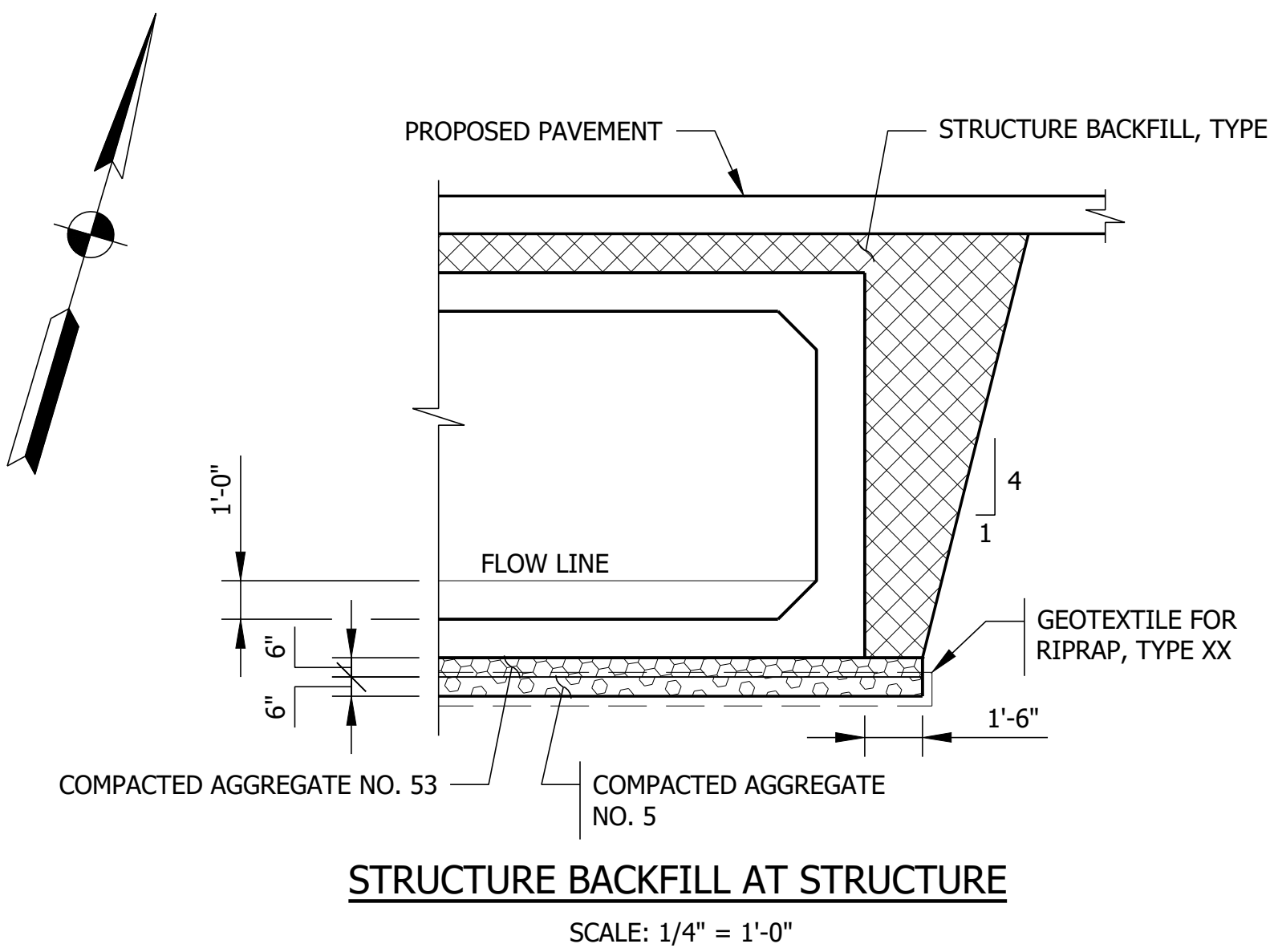
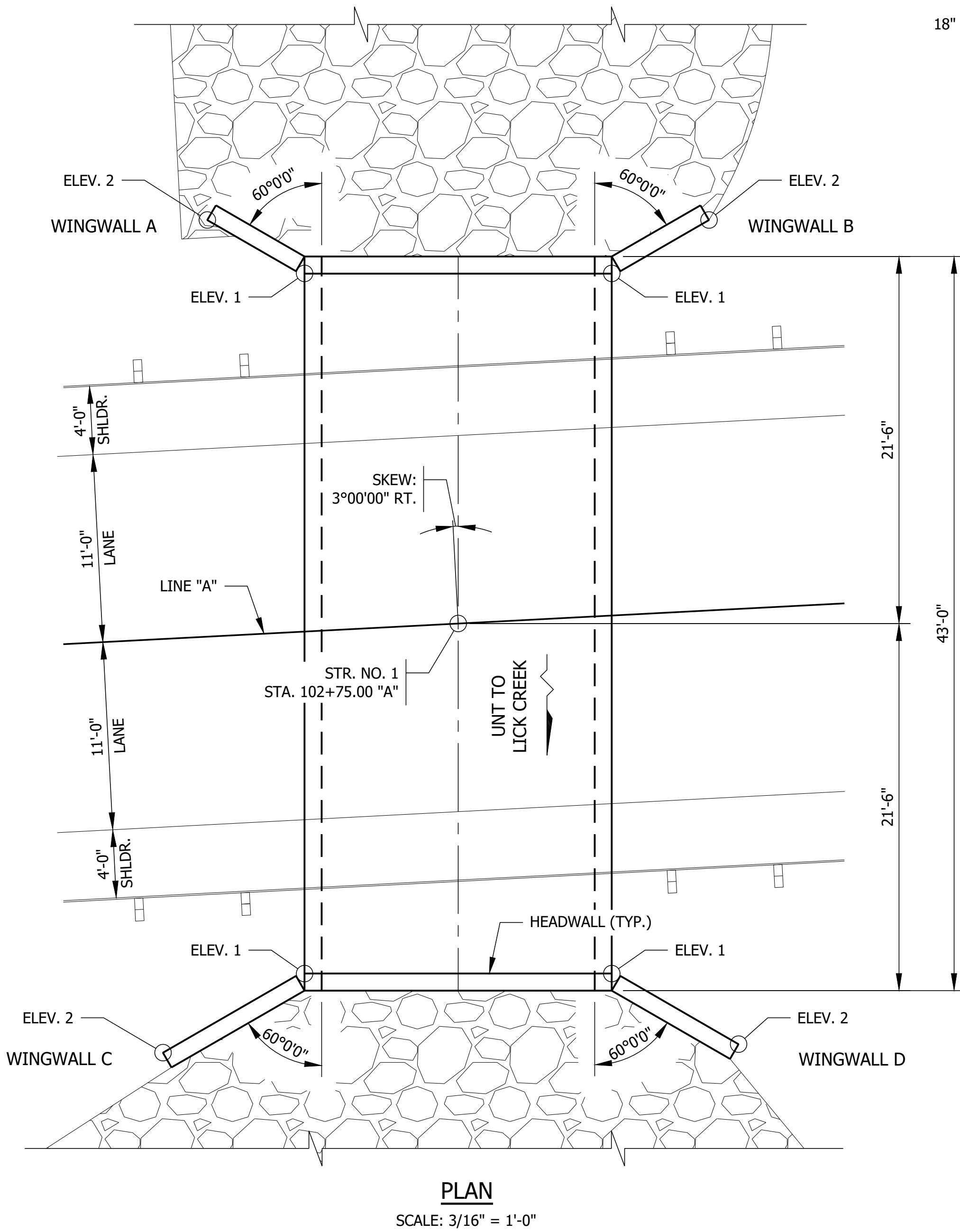
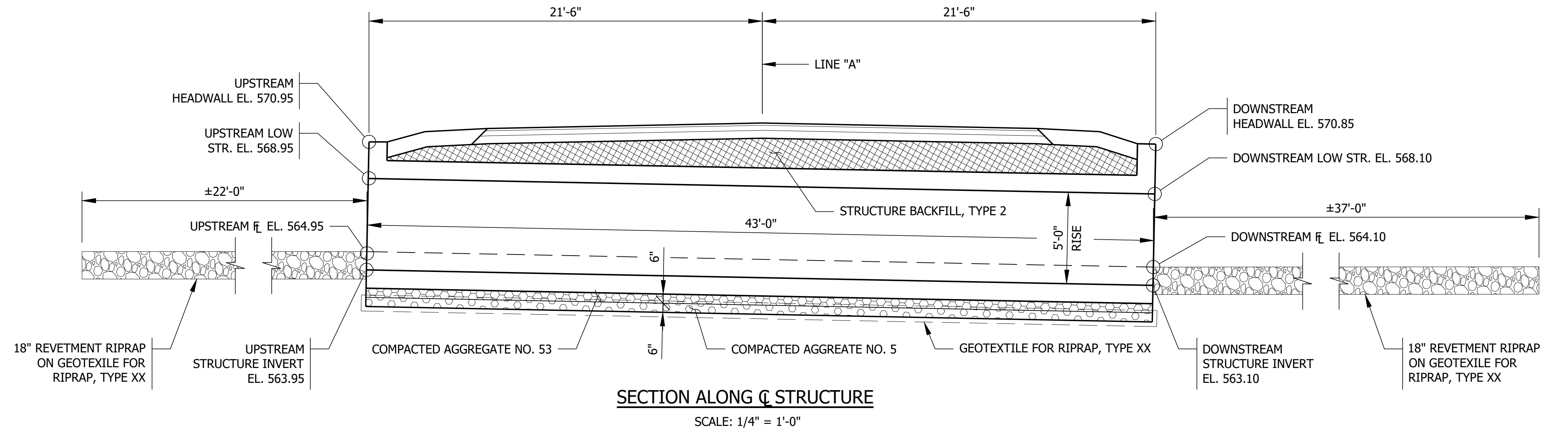
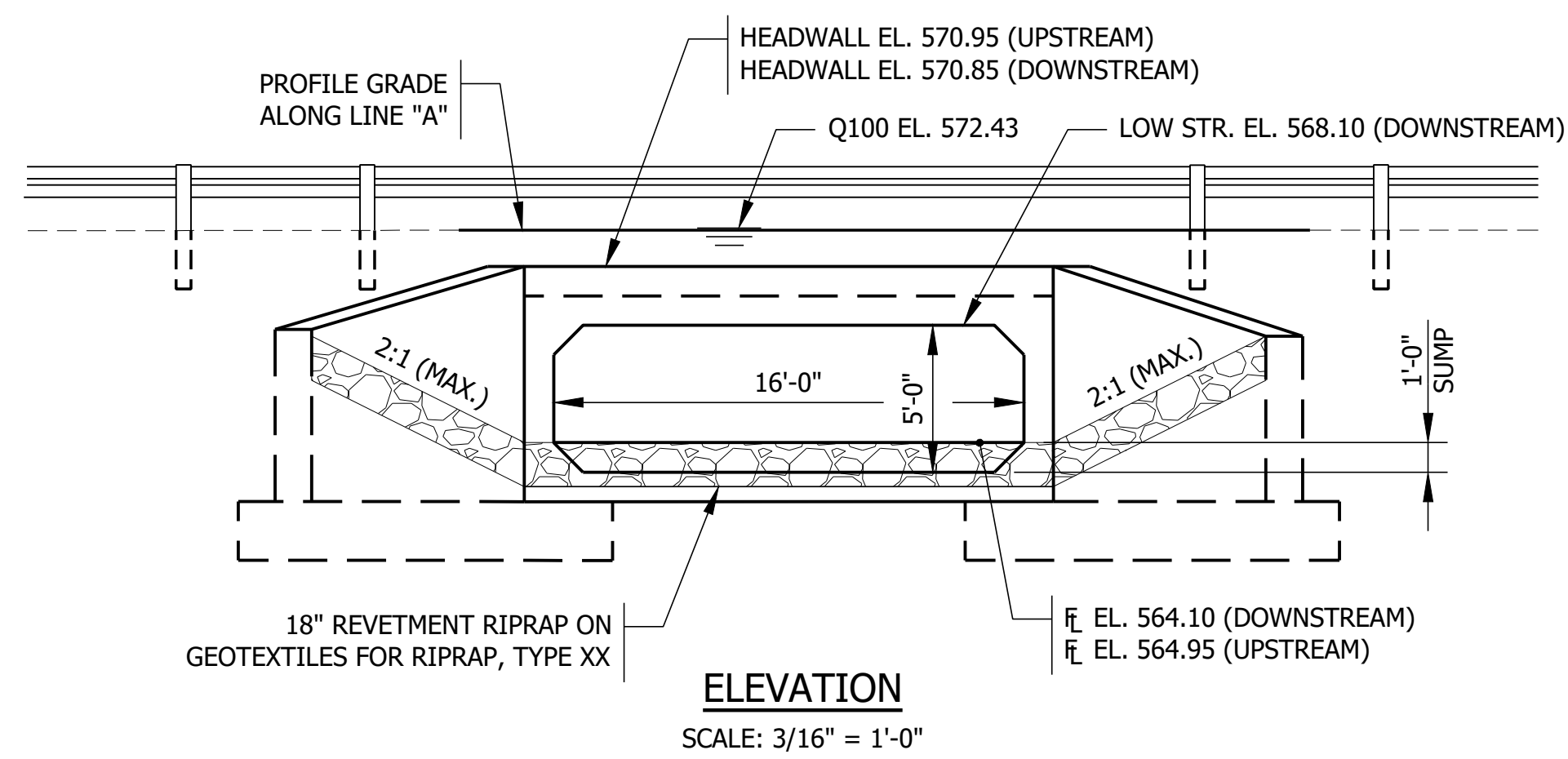
PRELIMINARY

| | | |
|--------------------------|-----------------|------|
| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: ZRE | DRAWN: SEJ | |
| CHECKED: ZZH | CHECKED: ZRE | |

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

| | |
|--|------------------------|
| HORIZONTAL SCALE 1" = 30'-0" UNLESS NOTED | BRIDGE FILE N/A |
| VERTICAL SCALE 1" = 10'-0" UNLESS NOTED | DESIGNATION 1900330 |
| | SHEET 7 of 15 |
| CONTRACT R-42238 | PROJECT 1900330 |



DESIGN DATA

STRUCTURE DESIGNED FOR HL-93 LOADING, IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EIGHTH EDITION, 2017, AND SUBSEQUENT INTERIM. DEAD LOAD INCREASED 35 PSF FOR FUTURE WEARING SURFACE.

HYDRAULIC DATA

| | |
|---------------------------------|---------------|
| DRAINAGE AREA: | 0.89 SQ. MI. |
| Q100 DISCHARGE: | 585 CFS |
| Q100 ELEVATION: | 572.43 FT. |
| APPROXIMATE SKEW: | 3° |
| PROPOSED VELOCITY | 5.57 FT./SEC. |
| PROPOSED BACKWATER | 0.00 FT. |
| MINIMAL LOW STRUCTURE ELEVATION | 568.10 FT. |
| EXISTING VELOCITY | 0.92 FT./SEC. |
| EXISTING BACKWATER | 0.03 FT. |
| EXISTING LOW STRUCTURE | 569.74 FT. |

SOIL PARAMETERS FOR WINGWALL DESIGN

| SOIL PARAMETERS FOR WINGWALL DESIGN | VALUE |
|---|-------|
| RESISTANCE FACTOR | . |
| NOMINAL BEARING RESISTANCE (PSF) | . |
| FACTORED BEARING RESISTANCE (PSF) | . |
| FRICTION BETWEEN WALL AND BACKFILL, DEGREES | . |
| TOTAL UNIT WEIGHT OF BACKFILL MATERIAL (PCF) | . |
| ANGLE OF INTERNAL FRICTION OF FOUNDATION MATERIAL (DEGREES) | . |
| COHESION OF FOUNDATION MATERIALS (PSF) | . |

WINGWALL TABLE

| WING | "L" | ELEV. 1 | ELEV. 2 | AREA (SFT) |
|------|---------|---------|---------|------------|
| "A" | 6.0 FT. | 570.95 | 568.50 | 41.7 |
| "B" | 6.0 FT. | 570.95 | 569.50 | 44.7 |
| "C" | 9.0 FT. | 570.85 | 568.50 | 69.7 |
| "D" | 8.0 FT. | 570.85 | 568.00 | 59.9 |

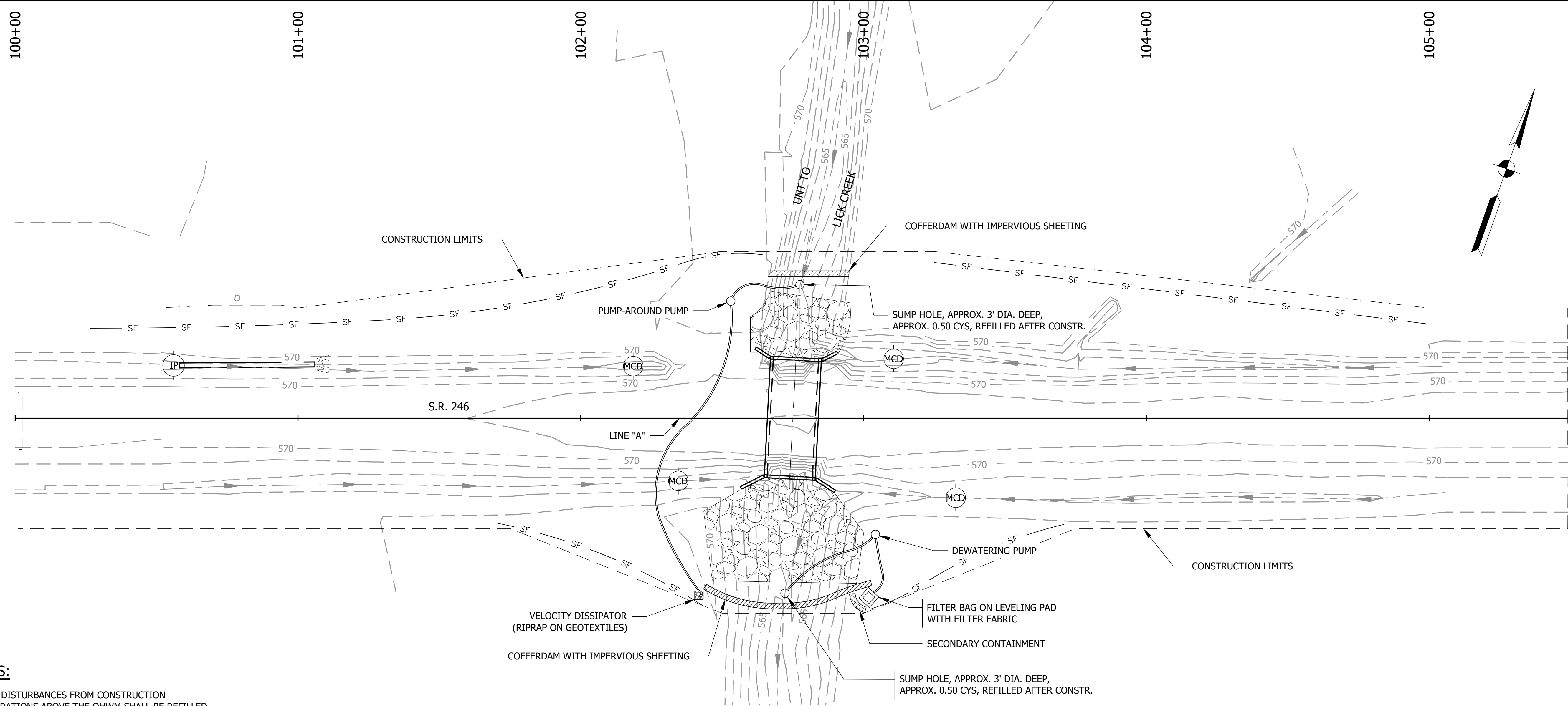
ESTIMATED QUANTITY OF HEADWALLS: 50 SFT.

- NOTES:**
- THE CONTRACTOR SHALL VERIFY THE EXISTING FLOWLINE ELEVATION TO SET THE APPROPRIATE SUMP DEPTH.
 - THE BOTTOM OF ALL WINGWALL FOOTERS SHALL EXTEND A MINIMUM OF 4.0 FEET BELOW THE FLOWLINE.
 - ASSUMED DIMENSION TO ESTABLISH NEAT LINE FOR STRUCTURAL BACKFILL QUANTITY. DIMENSION MAY VARY PER FABRICATOR'S FINAL DESIGN. ADDITIONAL STRUCTURAL BACKFILL OUTSIDE OF THE NEAT LINE ESTABLISHED ON THIS SHEET WILL NOT BE PAID FOR DIRECTLY AND SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.

REINFORCED CONCRETE BOX STRUCTURE
SPAN: 16'-0"
RISE: 5'-0"
SKEW: 3°00'00" RT.
S.R. 246 OVER UNT TO LICK CREEK
OWEN COUNTY

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| | | | | | |
|--------------------|--------------------------------|----------------------------------|---|------------------|-------------|
| PRELIMINARY | RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____ DATE _____ | INDIANA DEPARTMENT OF TRANSPORTATION | HORIZONTAL SCALE | BRIDGE FILE |
| | DESIGNED: ZRE | DRAWN: SEJ | | AS NOTED | N/A |
| | CHECKED: ZZH | CHECKED: ZRE | | VERTICAL SCALE | DESIGNATION |
| | | | GENERAL PLAN | 1900330 | SHEET |
| | | | | 8 | of 15 |
| | | | | CONTRACT | PROJECT |
| | | | | R-42238 | 1900330 |

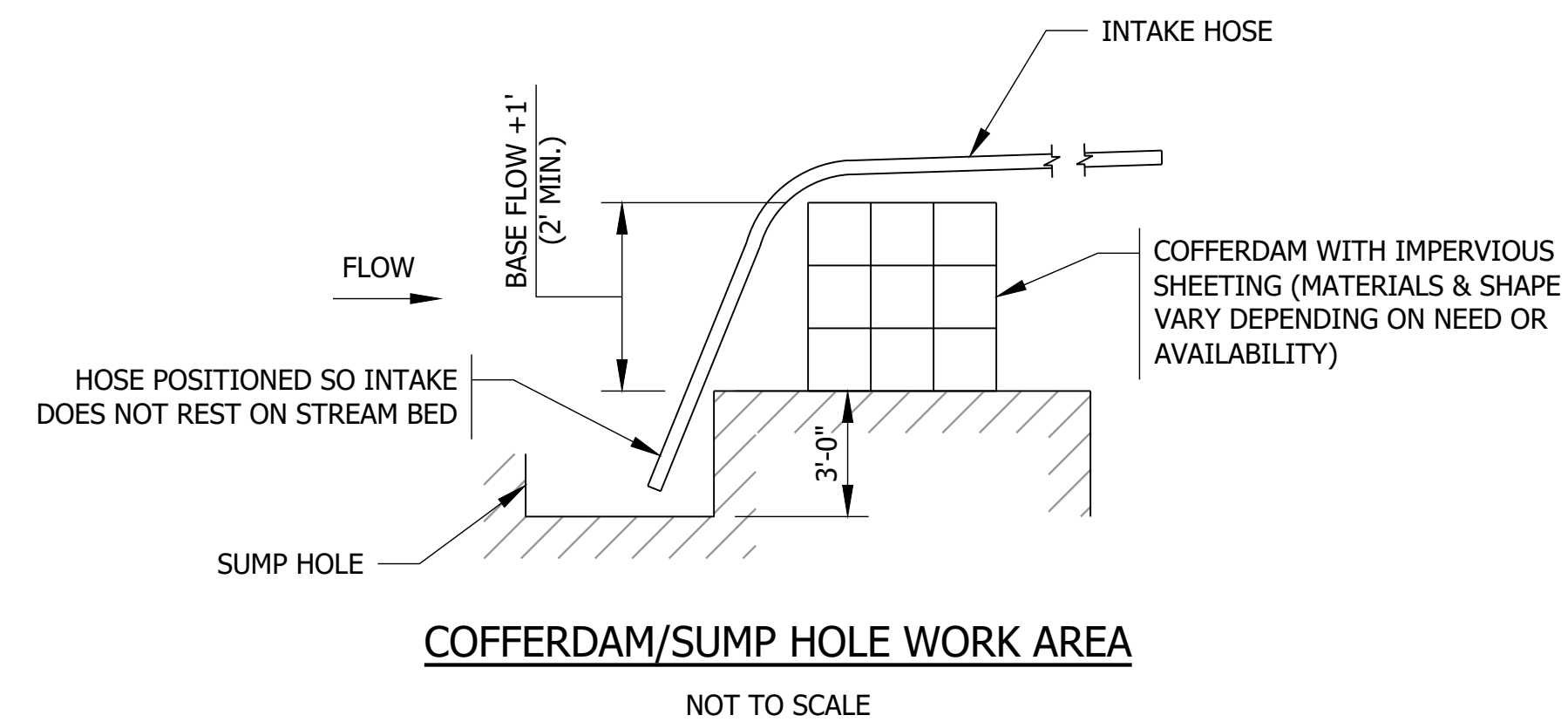


NOTES:

1. ALL DISTURBANCES FROM CONSTRUCTION OPERATIONS ABOVE THE OHWM SHALL BE REFILLED AND RESEEDED WITH INDOT INDOT SEED MIX, R.
2. TEMPORARY DEWATERING MEASURES ARE EXPECTED TO BE IN PLACE FOR 4 WEEKS.
3. FILTER SOCK SHALL NOT CROSS STREAM.

EROSION CONTROL LEGEND

- SF — TEMPORARY SILT FENCE
- CD — TEMPORARY CHECK DAM
- MCD — TEMPORARY CHECK DAM, MODIFIED
- IP — TEMPORARY INLET PROTECTION
- RIPRAP — RIPRAP
- DISCHARGE WATER MUST FILTER THROUGH A SEDIMENT TRAP OR OTHER SEDIMENT CONTROL MEASURES PRIOR TO REACHING WATERWAY



| LOCATION | | TEMPORARY EROSION CONTROL | | | | | | | | | | | | | | |
|-----------------------|------------|---------------------------|-------|------------------------|------------------------------------|---|--------------------------|-------------------------|---------------------------|-------------------------|---------------------|-------------------|---------------------------------|------------------------------|---|---|
| FROM STATION | TO STATION | LEFT | RIGHT | * TEMPORARY SILT FENCE | * TEMPORARY CHECK DAMS STRAW BALES | * TEMPORARY CHECK DAMS REVETMENT RIPRAP | * TEMPORARY FILTER STONE | * TEMPORARY GEOTEXTILES | * TEMPORARY SEDIMENT TRAP | * TEMPORARY SLOPE DRAIN | * TEMPORARY SEEDING | * TEMPORARY MULCH | * TEMPORARY MULCH STABILIZATION | * TEMPORARY INLET PROTECTION | * MOBILIZATION AND DEMOBILIZATION FOR SURFACE STABILIZATION | * NO. 2 STONE FOR CONSTRUCTION ENTRANCE |
| | | | | FT | FT | TON | TON | SYS | TON | FT | LBS | TON | SYS | EACH | EACH | TON |
| 100+12 | 105+35 | X | | 415 | 10 | 1 | 20 | | | | 103 | 2.0 | 3337 | 1.0 | | |
| 100+12 | 105+35 | | X | 185 | 10 | 1 | 20 | | | | 103 | 2.0 | 3337 | | | |
| CONSTRUCTION ENTRANCE | | | | | | | 100 | | | | | | | | | 60 |
| TOTALS | | | | 600 | 20 | 2 | 140 | | | 206 | 4.0 | 6774 | 1.0 | 1.0 | 60 | 60 |

*QUANTITY SHOWN FOR INFORMATION ONLY. COST INCLUDED IN "STORM WATER MANAGEMENT BUDGET".

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 April 21, 2022 10:48:54 AM / Zed Hot

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 Modified / By:
 Plotted / By:

| | | | | | |
|-------------|--------------------------------|----------------------------------|---|--|------------------------|
| PRELIMINARY | RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____ DATE _____ | INDIANA DEPARTMENT OF TRANSPORTATION EROSION CONTROL DETAILS | HORIZONTAL SCALE 1" = 20'-0" UNLESS NOTED | BRIDGE FILE N/A |
| | DESIGNED: ZZH | DRAWN: SEJ | | VERTICAL SCALE | DESIGNATION 1900330 |
| | CHECKED: BJM | CHECKED: ZZH | | | SHEET 9 of 15 |
| | | | | | CONTRACT R-42238 |

| PAVEMENT QUANTITIES AND APPROACH TABLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------|--------------|----------------|-----------------------------------|----------------------------|-----|----------|---------------------------------------|------------|-----|-------------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------|-------------------------|-------|--------|----------------------------------|-----------------------------------|-------------------------------------|-----------------------|----------------|--------------------------------|---------------------------|---------|---------------------------------|----------------------------------|-------|--------|----|----|-----|------|------|------|------|
| LOCATION | DESCRIPTION (APPROACH TYPE OR CLASS) | WIDTH FT | LENGTH FT | RADI in/out | DISTANCE BEYOND R/W LINE FT | SURFACE BEYOND R/W LINE | | | GRADE (LESS THEN 10% NOT SHOWN) | EXCAVATION | | CC/QA HMA, 3, 64, 9.5mm | CC/QA HMA, 3, 64, 19.0mm | CC/QA HMA, 3, 64, 25.0mm | WIDENING WITH HMA, TYPE B | ASPHALT FOR TACK COAT | SUBGRADE IMPROVEMENT | | | COMPACTED AGGREGATE NO. 53 | SUBGRADE TREATMENT, TYPE IC | GEOTEXTILE FOR PAVEMENT, TYPE 2B | TRANSITION MILLING | JOINT ADHESIVE | | LIQUID ASPHALT SEALANT | REMARKS | | | | | | | | | | | |
| | | | | | | COMPACTED AGGREGATE | HMA | CONCRETE | | 1 | 2 | | | | | | CYS | SURF. | INTER. | | | | | BASE | COMPACTED AGGREGATE NO 5 | | | COMPACTED AGGREGATE NO 53 | COMPACTED AGGREGATE No. 53 | SURF. | INTER. | | | | | | | |
| | | | | | | SFT | SFT | SFT | | | | | | | | | | | | | | | | | | | | | | | | % | % | CUT | FILL | TONS | TONS | TONS |
| | | | | | | SR 246 LINE "A" | | 30 | | 48 | | | | | | | | | | | | | | | | | | | 434 | 264 | 68 | 20 | 47 | 153 | 1 | | | 288 |
| STA. 100+82.00 "A" | | 24 | 31 | 25/25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTALS | | | | | | | | | | | 434 | 264 | 68 | 20 | 47 | 153 | 1 | | | 288 | 595 | 159 | 360 | 666 | 666 | 666 | | | | | | | | | | | | |

| STRUCTURE DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---------------|------|-------|-------|--|---------------|-----------------------------------|------|-------|------|--------------|----------------|---------------------|------------------|----|-----------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------------|-----------------------------------|------------|-------------------------------|--------------------------------|-----------------------------------|--------------------|---------------------------------------|-----------------|---------------------|---------|-------|
| STRUCTURE NUMBER | LOCATION | | | | DESCRIPTION MANHOLE, INLET, CATCH BASIN OR SPECIALTY STRUCTURE | LENGTH LFT | VIDEO INSPECTION LENGTH LFT | SKEW | COVER | | FLOW LINE | | SERVICE LIFE YRS | SITE DESIGNATION | PH | BACKFILL METHOD | STRUCTURE BACKFILL, TYPE 1 CYS | STRUCTURE BACKFILL, TYPE 2 CYS | STRUCTURE BACKFILL, TYPE 5 CYS | SCOUR PROTECTION | | | STR. FDN. IMPROVEMENT | | | END SECTION EA. | SAFETY METAL END SECTION EA. | CONNECT TO STR. | CULVERT ASSET ID | REMARKS | |
| | STATION | LEFT | RIGHT | CROSS | | | | | MAX | MIN | UP STREAM | DOWN STREAM | | | | | | | | REVETMENT RIP RAP | GEOTEXTILE FOR RIPRAP, TYPE 2B | SUMP DEPTH | COMPACTED AGGREGATE, NO. 5 | COMPACTED AGGREGATE, NO. 53 | GEOTEXTILE FOR RIPRAP, TYPE 2B | | | | | | SLOPE |
| | FT | FT | FT | FT | | | | | FT. | FT. | ELEV. | ELEV. | | | | | | | | TONS | SYS | IN. | CYS | CYS | SYS | | | | | | |
| 1 | 102+75.00 "A" | | | X | | 16 X 5 | | | 2.50 | 2.10 | 564.95 | 564.10 | 75 | | | | | | | 204 | 302 | 12 | 20 | 20 | 243 | 2 | | | CV 246-060-30.50 | | |
| 2 | 100+82.00 "A" | X | | | | 1.25 | | | 0.40 | 0.34 | 568.39 | 568.29 | | | | 4.0 | | | | 3 | 6 | 3 | | | | | | | | | |

| GUARDRAIL SUMMARY TABLE | | | | | | | | | |
|-------------------------|---------------|----------------------|-------|-----------------------------------|----------------------|---|------------------|-----|------|
| LOCATION | | MGS GUARDRAIL LENGTH | | | | | | | |
| FROM STATION | TO STATION | LEFT | RIGHT | STANDARD POST AT 6 FT. 3 IN. SPA. | MGS LONGSPAN, TYPE 2 | GUARDRAIL END TREATMENT, TYPE OS, 31 IN | GUARDRAIL REMOVE | | |
| | | | | | | | | LFT | EACH |
| 102+00.79 "A" | 102+50.79 "A" | X | | | | | 1.0 | | |
| 102+50.79 "A" | 103+00.79 "A" | X | | | | | | | |
| 103+00.79 "A" | 104+19.54 "A" | X | | 118.75 | | | | | |
| 104+19.54 "A" | 104+69.54 "A" | X | | | | 1.0 | | | |
| 100+86.71 "A" | 101+36.71 "A" | X | | | | 1.0 | | | |
| 101+36.71 "A" | 102+49.21 "A" | X | | 112.50 | | | | | |
| 102+49.21 "A" | 102+99.21 "A" | X | | | 1.0 | | | | |
| 102+99.21 "A" | 103+11.71 "A" | X | | 12.50 | | | | | |
| 103+11.71 "A" | 103+61.71 "A" | X | | | | 1.0 | | | |
| TOTALS | | | | 243.75 | 2.0 | 4.0 | 0.0 | | |

| RIPRAP AND SEEDING SUMMARY TABLE | | | | | | | | | |
|----------------------------------|---------------|------|--------|-------|---------------|----------------|---------------------------|-----------------------------------|--|
| LOCATION | | LEFT | MEDIAN | RIGHT | LENGTH LFT | SODDING SYS | MULCHED SEEDING, R SYS | EROSION CONTROL BLANKET SYS | |
| FROM STATION | TO STATION | | | | | | | | |
| 100+02.55 "A" | 105+49.00 "A" | X | | X | | | 3337 | 3337 | |
| 100+50.00 "A" | 102+61.55 "A" | X | | | 211.5 | 142.0 | | | |
| 102+95.00 "A" | 105+33.74 "A" | X | | | 238.7 | 160.0 | | | |
| 100+85.00 "A" | 102+55.00 "A" | | X | X | 170.0 | 114.0 | | | |
| 102+90.00 "A" | 103+50.00 "A" | | X | X | 60.0 | 40.0 | | | |
| TOTALS | | | | | | 456.0 | 3337 | 3337 | |

| PAVEMENT MARKINGS TABLE | | | | | | | | | |
|-------------------------|---------------|------|--------|-------|---|---------------------------------------|---------------------------------------|---|--|
| LOCATION | | LEFT | CENTER | RIGHT | LINE, PAINT, SOLID, YELLOW, 4 IN. | LINE, PAINT, SOLID, WHITE 4 IN. | SNOWPLOWABLE RAISED PVMT MARKER | SNOWPLOWABLE RAISED PVMT MARKER, REMOVE | |
| FROM STATION | TO STATION | | | | | | | | |
| 100+02.55 "A" | 105+49.00 "A" | | | X | | | 546.5 | | |
| 101+64.00 "A" | 103+86.00 "A" | | X | | | | 444 | | |
| 100+02.55 "A" | 105+49.00 "A" | X | | | | | 546.5 | | |
| TOTALS | | | | | | | 444 | 1093 | |

| PIPE MATERIAL TABLE | |
|---|-------------------------------|
| STRUCTURE NUMBER | 2 |
| PIPE TYPE/SHAPE | 3/CIR |
| SMOOTH PIPE SIZE | 15" |
| CORRUGATED PIPE SIZE | |
| RCP | CLASS II |
| | D _{0.01} RATING 1000 |
| NON-REINFORCED CONCRETE PIPE, CLASS 3 (S) | OK |
| CORRUGATED PE PIPE, TYPE 5 (S) | OK |
| RIBBED PE PIPE | |
| SMOOTH WALL PE PIPE (S) / MAXIMUM DR | OK/26 |
| PROFILE WALL PVC PIPE (S) | OK |
| SMOOTH WALL PVC PIPE (S) | OK |
| VITRIFIED CLAY PIPE EXTRA STRENGTH (S) | OK |

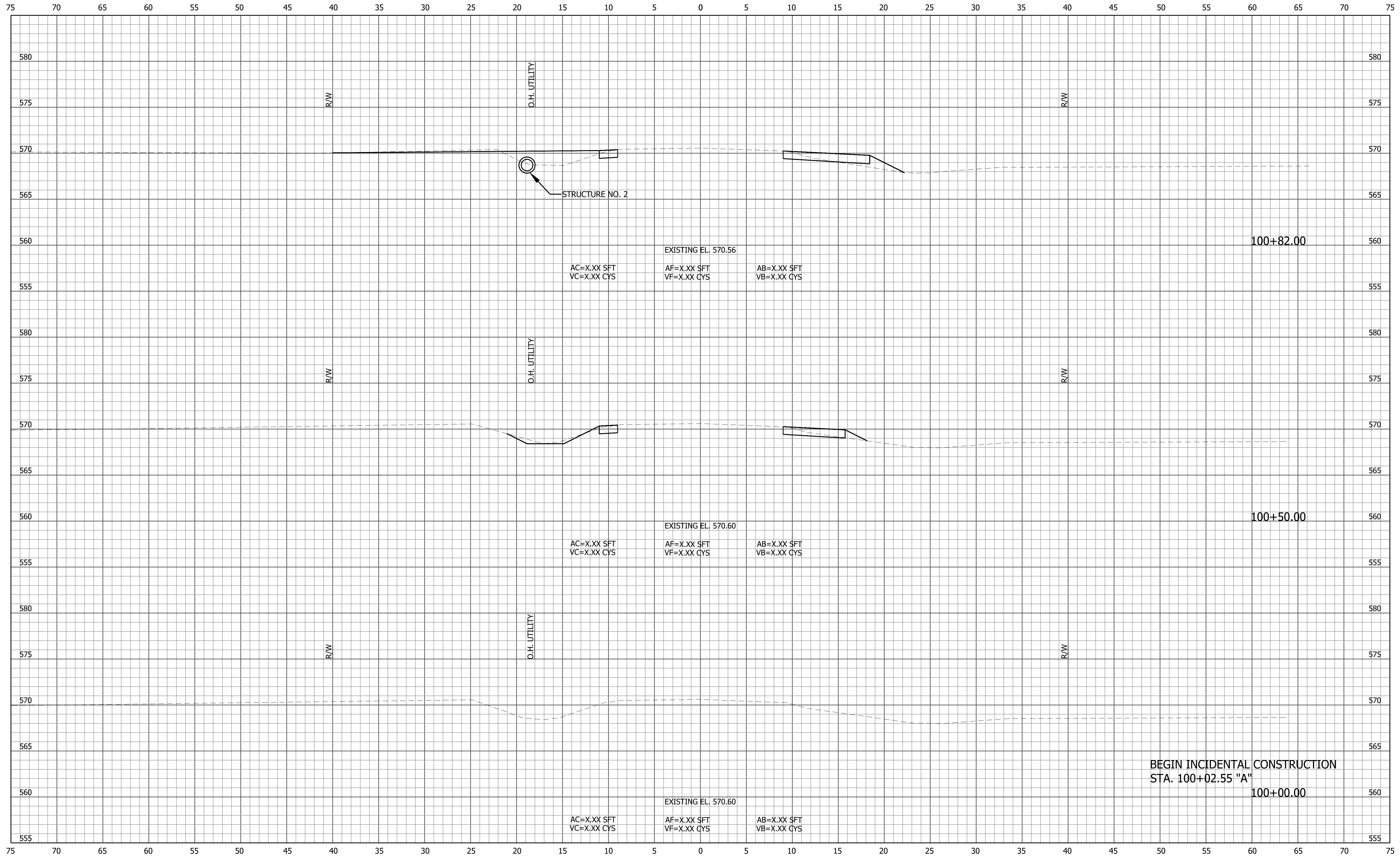
| MONUMENT SUMMARY TABLE | | | | | | |
|------------------------|---------------|--------------|------|-------|---------------------|-------------------------|
| LOCATION | | OFFSET FT | LEFT | RIGHT | MONUMENT, TYPE B | RIGHT-OF- WAY MARKER |
| STATION | | | | | | |
| 102+54.00 "A" | BEGIN PROJECT | | | | X | |
| 102+96.00 "A" | END PROJECT | | | | X | |
| 100+00.00 "A" | | 40 | X | | | X |
| 101+00.00 "A" | | 40 | X | | | X |
| 102+50.00 "A" | | 60 | X | | | X |
| 103+25.00 "A" | | 60 | X | | | X |
| 105+00.00 "A" | | 40 | X | | | X |
| 105+50.00 "A" | | 40 | X | | | X |
| 100+00.00 "A" | | 40 | | X | | X |
| 101+75.00 "A" | | 40 | | X | | X |
| 102+50.00 "A" | | 70 | | X | | X |
| 103+00.00 "A" | | 70 | | X | | X |
| 103+75.00 "A" | | 40 | | X | | X |
| 105+50.00 "A" | | 40 | | X | | X |
| TOTALS | | | | | 2 | 12 |

| SHEET SIGN, MAILBOX, AND POST SUMMARY | | | | | | | | | | | | |
|---------------------------------------|----------------------|-----------------|---------------------|--------------------------|-----------------------------|---------------------------|--|--------|--------|--------------------------|-----------------------------------|-------|
| LINE | SIGN LOCATION (STA.) | SIGN CODE | SIGN SIZE (IN X IN) | GROUND MOUNTED SIGN AREA | SIGN, GROUND MOUNTED, RESET | SIGN, DO NOT MOW OR SPRAY | POSTS | | | MAILBOX ASSEMBLY, SINGLE | REMARKS | |
| | | | | | | | SQUARE, TYPE 1, UNREINFORCED ANCHOR BASE | LENGTH | NUMBER | | | TOTAL |
| | | | | | | | | | | | | |
| "A" | 101+90.00, 23.5' LT. | W1-1aL | 36 X 36 | | 1 | | | | | | | |
| "A" | 101+90.00, 23.5' LT. | W13-1P (15 MPH) | 18 X 18 | | 1 | | 10.25 | 1 | 10.25 | | RESET EXISTING SIGNS ON NEW POSTS | |
| TOTALS | | | | | 2 | | | | 10.25 | 1.0 | | |

| EARTHWORK | | |
|---|----------|------|
| ITEM | QUANTITY | UNIT |
| FILL + 25% | 330 | CYS |
| COMMON EXCAVATION | 434 | CYS |
| SURPLUS EXCAVATION (NO DIRECT PAYMENT)* | 510 | CYS |
| WASTE = COMMON EX + SURPLUS EXC. - (FILL + 25%) | 614 | CYS |
| BENCHING (NO DIRECT PAYMENT) | 0 | CYS |

*INCLUDES QUANTITY FOR EXCAVATION OF SUBGRADE TREATMENT AND STRUCTURAL BACKFILL

| | | | |
|------------------|--------------------------------------|-----------------------|------------|
| PRELIMINARY | RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____ | DATE _____ |
| | DESIGNED: ZZH | DRAWN: SEJ | |
| | CHECKED: BJM | CHECKED: ZZH | |
| | INDIANA DEPARTMENT OF TRANSPORTATION | | |
| SUMMARY TABLES | | | |
| HORIZONTAL SCALE | | BRIDGE FILE | |
| NONE | | N/A | |
| VERTICAL SCALE | | DESIGNATION | |
| | | 1900330 | |
| | | SHEET | |
| | | 10 of 15 | |
| CONTRACT | | PROJECT | |
| R-42238 | | 1900330 | |



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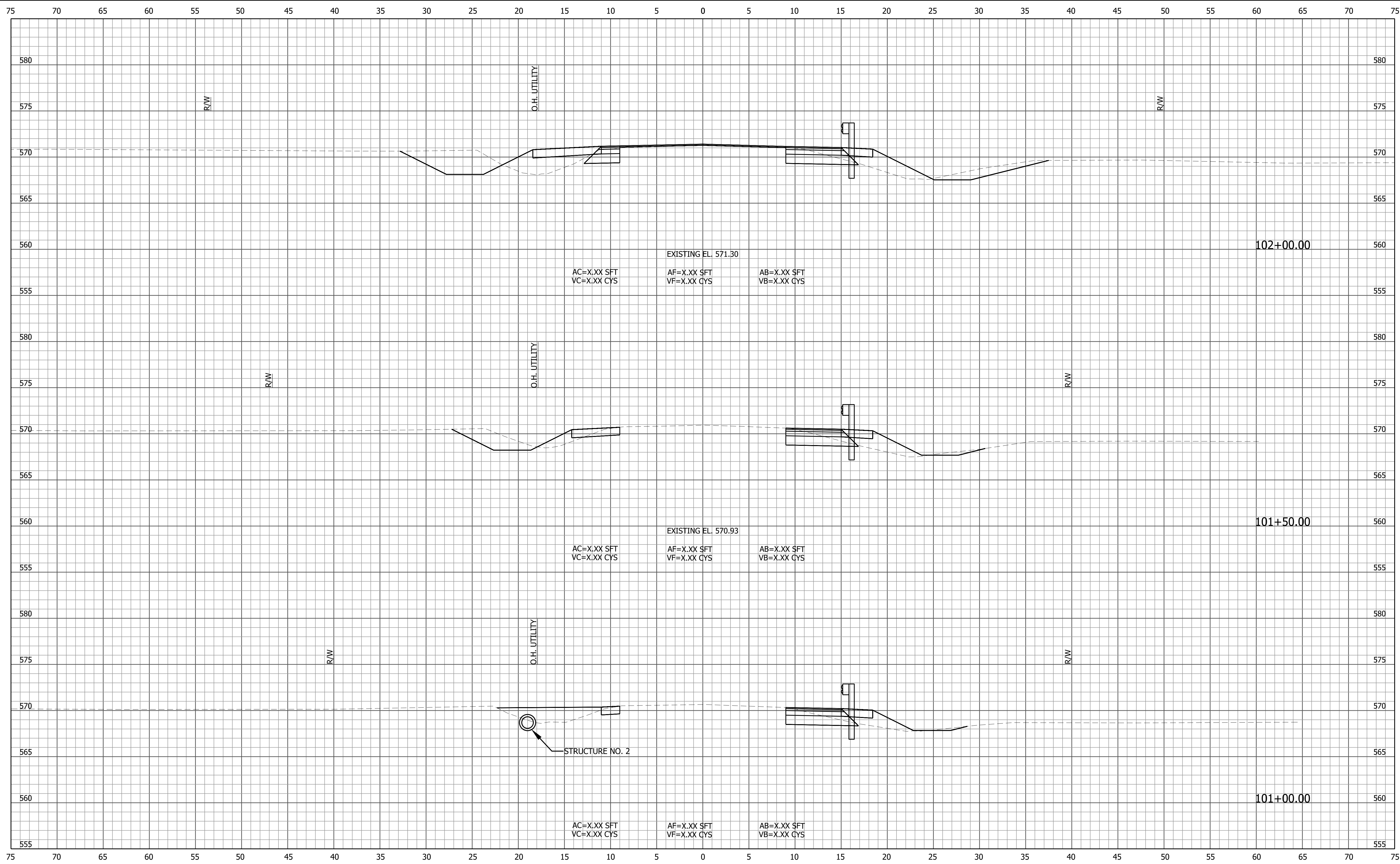
PRELIMINARY

| | | | |
|--------------------------------|--------------|-----------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | | DESIGN ENGINEER _____ | DATE _____ |
| DESIGNED: ZRE | DRAWN: ZRE | | |
| CHECKED: ZZH | CHECKED: ZZH | | |

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

| | |
|-----------------------------|------------------------|
| HORIZONTAL SCALE 1" = 5' | BRIDGE FILE N/A |
| VERTICAL SCALE 1" = 5' | DESIGNATION 1900330 |
| | SHEET 11 of 15 |
| CONTRACT R-42238 | PROJECT 1900330 |



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PRELIMINARY

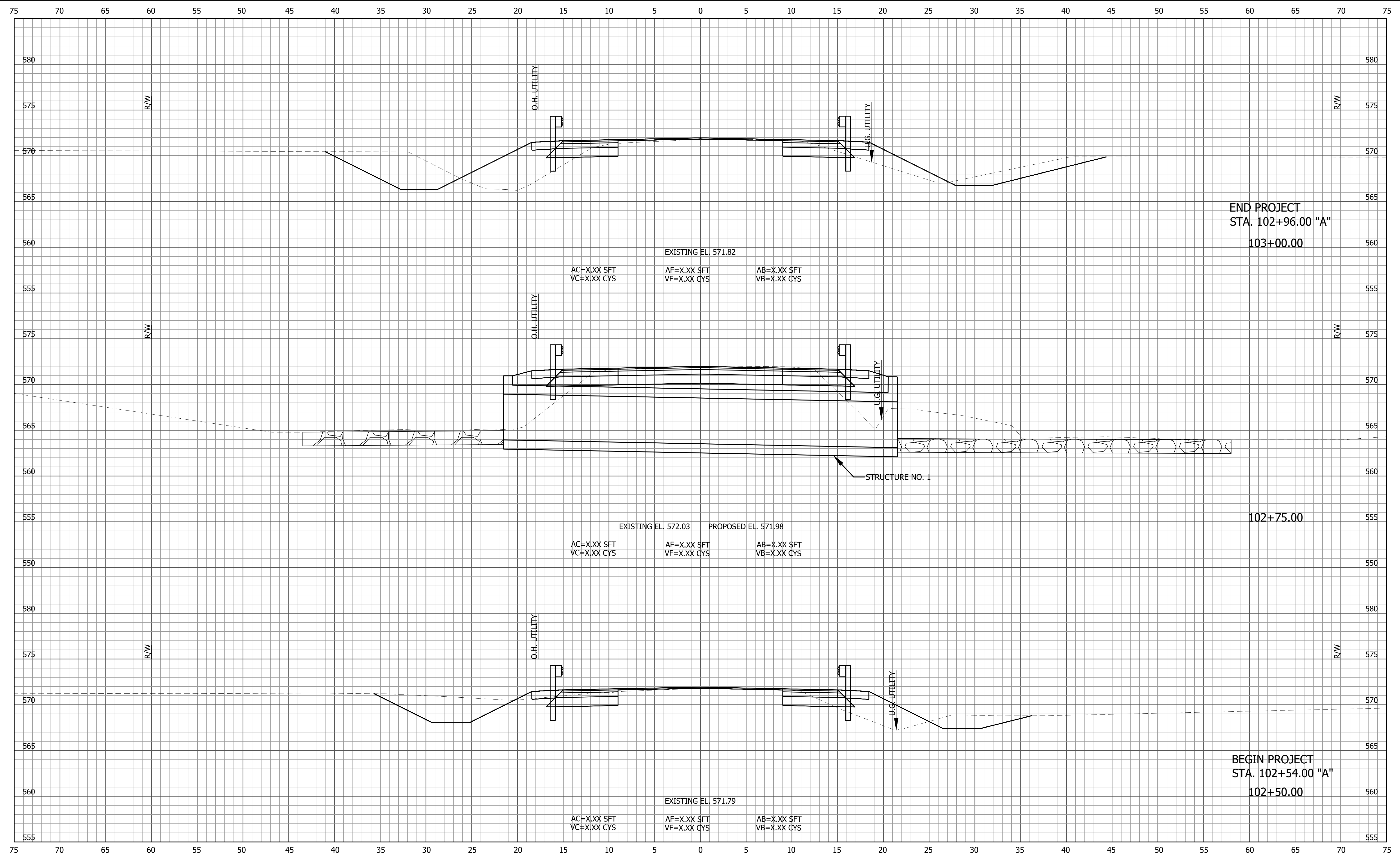
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|--------------------------------|--------------|-----------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | | DESIGN ENGINEER _____ | DATE _____ |
| DESIGNED: ZRE | DRAWN: ZRE | | |
| CHECKED: ZZH | CHECKED: ZZH | | |

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

| | |
|-----------------------------|------------------------|
| HORIZONTAL SCALE 1" = 5' | BRIDGE FILE N/A |
| VERTICAL SCALE 1" = 5' | DESIGNATION 1900330 |
| | SHEET 12 of 15 |
| CONTRACT R-42238 | PROJECT 1900330 |

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PRELIMINARY

RECOMMENDED FOR APPROVAL _____

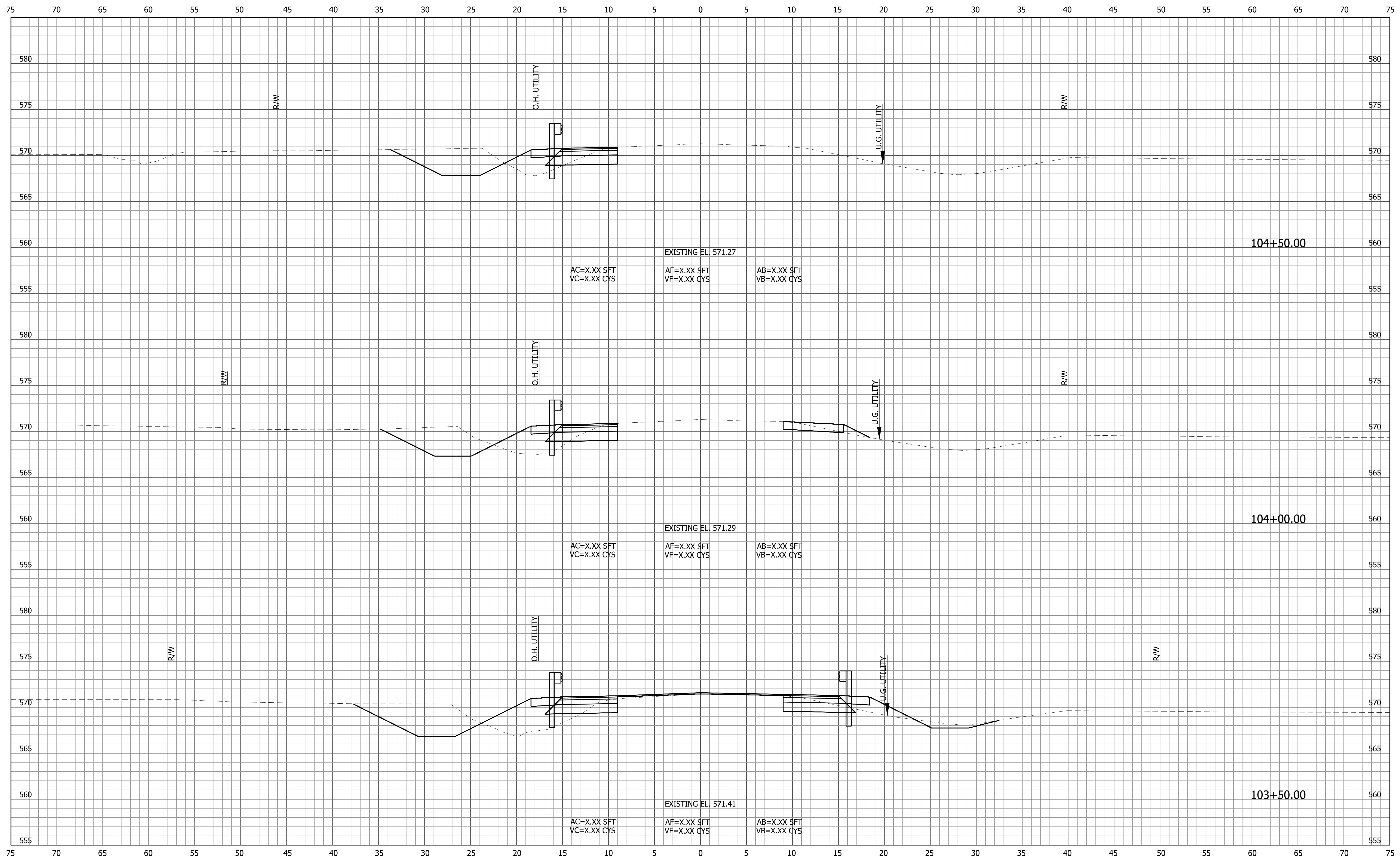
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CHECKED: ZZH CHECKED: ZZH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

| | |
|-----------------------------|------------------------|
| HORIZONTAL SCALE 1" = 5' | BRIDGE FILE N/A |
| VERTICAL SCALE 1" = 5' | DESIGNATION 1900330 |
| | SHEET 13 of 15 |
| CONTRACT R-42238 | PROJECT 1900330 |



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PRELIMINARY

RECOMMENDED FOR APPROVAL _____

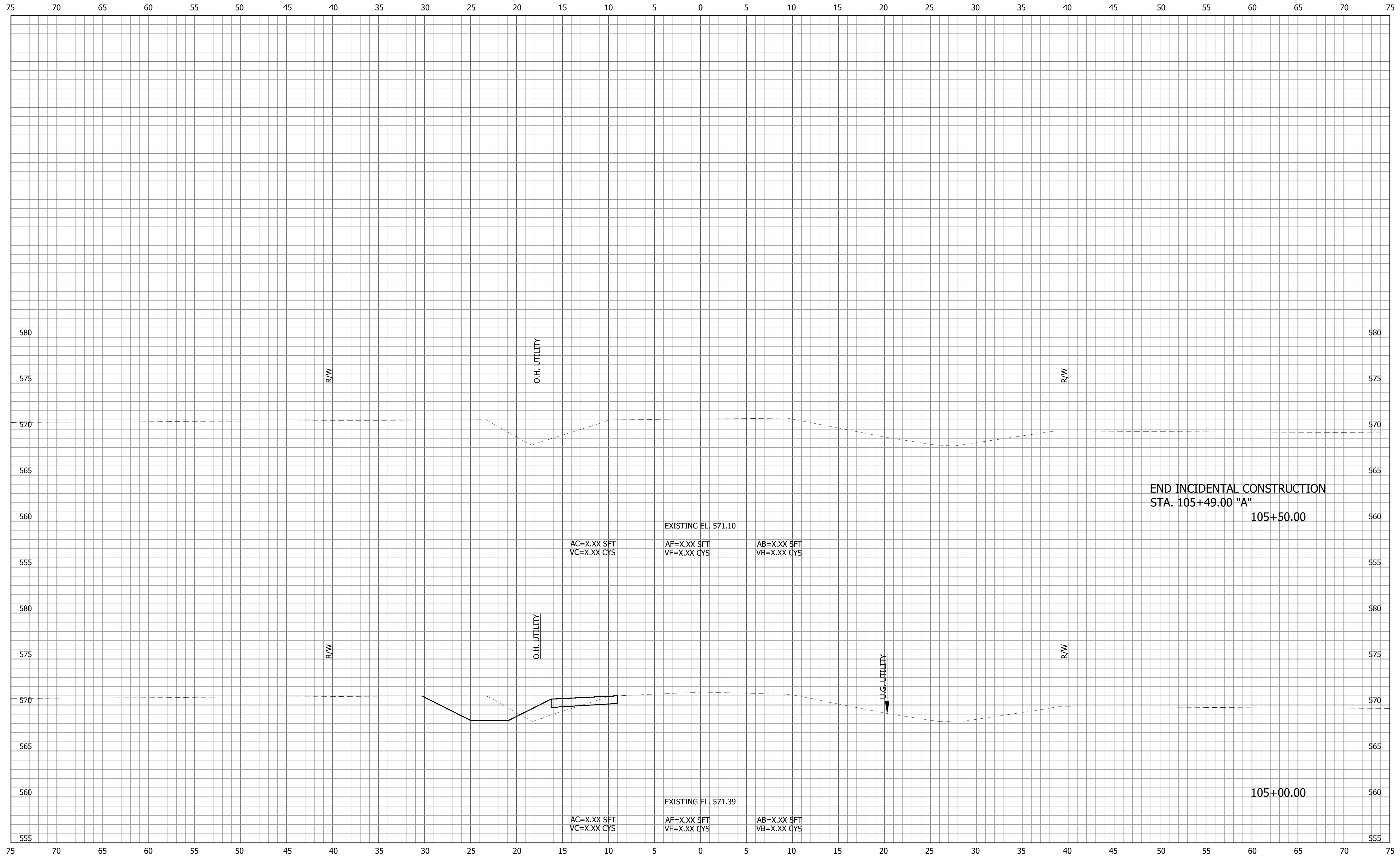
DESIGNED: ZRE DRAWN: ZRE DATE _____

CHECKED: ZZH CHECKED: ZZH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

| | |
|-----------------------------|------------------------|
| HORIZONTAL SCALE 1" = 5' | BRIDGE FILE N/A |
| VERTICAL SCALE 1" = 5' | DESIGNATION 1900330 |
| | SHEET 14 of 15 |
| CONTRACT R-42238 | PROJECT 1900330 |



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File Name:
 Modified / By:
 Plotted / By:

PRELIMINARY

| | | | |
|--------------------------------|--------------|-----------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | | DESIGN ENGINEER _____ | DATE _____ |
| DESIGNED: ZRE | DRAWN: ZRE | | |
| CHECKED: ZZH | CHECKED: ZZH | | |

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

| | |
|-----------------------------|------------------------|
| HORIZONTAL SCALE 1" = 5' | BRIDGE FILE N/A |
| VERTICAL SCALE 1" = 5' | DESIGNATION 1900330 |
| | SHEET 15 of 15 |
| CONTRACT R-42238 | PROJECT 1900330 |