BOYD ROAD BRIDGE
PEDESTRIAN IMPROVEMENTS

CAMPBELL COUNTY, KENTUCKY

230415

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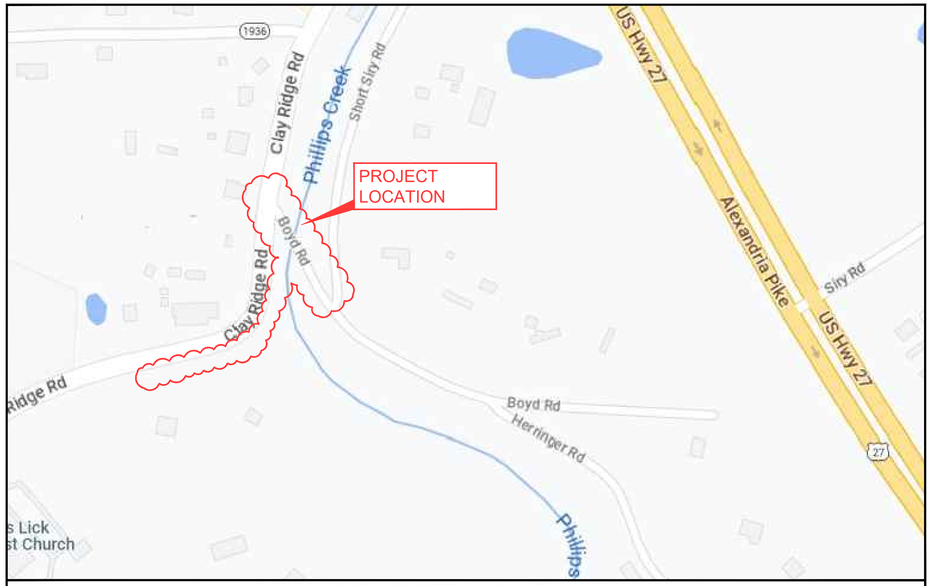

VICINITY MAP

K.T.C SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND CAMPBELL COUNTY PUBLIC WORKS DEPARTMENT REQUIREMENTS SHALL GOVERN THIS IMPROVEMENT.

SOURCE OF BOUNDARY INFORMATION

THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED UPON A COMBINATION OF CAMPBELL COUNTY G.I.S. MAPPING AND FIELD BOUNDARY SURVEY BY CT CONSULTANTS, INC.

SOURCE OF TOPOGRAPHIC INFORMATION

THE TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED UPON A FIELD TOPOGRAPHIC SURVEY BY CT CONSULTANTS, INC. IN JANUARY 2023.

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BOYD ROAD BRIDGE
PEDESTRIAN IMPROVEMENTS
CAMPBELL COUNTY, KENTUCKY

TITLE SHEET

PROJECT NO.
230415
DISCIPLINE
CIVIL
SHEET NAME
TITLE
SHEET 1 OF 6

GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, THE LATEST EDITION OF THE CAMPBELL COUNTY SUBDIVISION REGULATIONS AND THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

2. EXPANSION MATERIAL SHALL BE FLEXIBLE FOAM MATERIAL, SUCH AS CERAMAR BY W.R. MEADOWS OR APPROVED EQUAL, INSTALLED IN AREAS OF CONCRETE WALK, DRIVES OR CURB/GUTTER ONLY AT THE FOLLOWING:

   A. AT ALL FIXED OBJECTS (I.E. UTILITY COVERS, VALVES, MANHOLES, ETC.)

   B. AT ALL RIGID STRUCTURES (I.E. DRIVES, CURBS, STEPS, ETC.) PAYMENT FOR THIS ITEM AND ZIP STRIPS INCLUDED IN THE PERTINENT CONCRETE PAVEMENT UNIT PRICE.

   C. AT ALL STREET INTERSECTIONS AT THE POINT OF CURVATURE OF THE TURNING RADII ENTERING THE INTERSECTION.

   D. NO CONCRETE SHALL BE LEFT ABOVE THE EXPANSION MATERIAL OR ACROSS THE JOINT AT ANY POINT. ANY CONCRETE SPANNING THE ENDS OF THE JOINT NEXT TO THE FORMS SHALL BE CAREFULLY CUT AWAY AFTER THE FORMS ARE REMOVED. BEFORE THE PAVEMENT IS OPENED TO TRAFFIC, THE GROOVE ABOVE THE EXPANSION JOINT MATERIAL SHALL BE CLEANED AND SEALED WITH JOINT SEALING MATERIAL.

3. **ROADWAY PROJECT MAY NOT BEGIN BEFORE XXX,XX,XXXX AND SHALL BE SUBSTANTIALLY COMPLETE NO LATER THAN XXX,XX,XXXX.**

4. DOWNSPOUT AND UNDERDRAIN CONSTRUCTION SHALL MEET THESE AND THE LATEST SPECIFICATION OF THE CAMPBELL COUNTY SUBDIVISION REGULATIONS, SD-1 REGULATIONS AND STANDARD DRAWINGS, AND DETAILS SHOWN ON THIS PLAN. BEDDING, BACKFILLING, JOINTS, EXCAVATION AND INSTALLATION SHALL BE INCLUDED IN THE COST PER FOOT OF PIPE. STORM SEWER, DOWNSPOUT AND UNDERDRAIN PIPE MATERIAL SHALL HAVE A MANNING'S "N" VALUE OF 0.013 OR LESS (UNLESS OTHERWISE SHOWN) AND BE RIGID / SMOOTH INTERIOR WALLED PVC SDR-35 PIPE, RIBBED PVC PIPE, A-2000 PVC PIPE, UNLESS OTHERWISE SHOWN.

5. ALL DISTURBED AREAS ARE TO BE RESTORED (SEEDED AND MULCHED) BY THE CONTRACTOR AND SHALL PROCEED WITH JOB PROGRESSION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING ANY EXCESS MATERIALS AT THE SITE AND MAINTAINING ALL SEEDED AND MULCHED AREAS UNTIL PROJECT COMPLETION AND FINAL INSPECTION PER KDOT SPEC. 212. A RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAYS AFTER CONSTRUCTION.

6. ALL APPLICABLE RECOMMENDATIONS IN KENTUCKY'S BEST MANAGEMENT PRACTICES MANUAL SHALL BE FOLLOWED BY THE CONTRACTOR, INCLUDING SEEDING OF DISTURBED GROUND.

7. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED BASED ON A COMBINATION OF CAMPBELL COUNTY GIS MAPPING AND FIELD BOUNDARY SURVEY BY CT CONSULTANTS.

8. THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE EASEMENTS AND RIGHTS-OF-WAY SHOWN ON THESE PLANS UNLESS WRITTEN PERMISSION IS GIVEN BY THE PROPERTY OWNER AND APPROVED BY CAMPBELL COUNTY.

9. ALL OSHA, STATE AND LOCAL SAFETY REGULATIONS SHALL BE FOLLOWED DURING CONSTRUCTION.

10. RELOCATION OR REINSTALLATION OF EXISTING MAIL BOXES, FENCES, PRIVATE LANDSCAPE LIGHTS, PRIVATE SIGNS, STREET SIGNS, RESTORATION OF LANDSCAPING AND TREATMENT OF EXISTING WALLS WHERE A PORTION HAS BEEN REMOVED SHALL BE INCIDENTAL TO CLEARING AND GRUBBING.

11. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL CAMPBELL COUNTY PERMITS HAVE BEEN ISSUED AS REQUIRE

12. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH CAMPBELL COUNTY. LOCAL TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THESE PLANS.

13. ADDITIONAL BMP'S AND EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY. ALL COST FOR ABOVE SHALL BE INCLUDED IN LUMP SUM BID FOR EROSION CONTROL AND WATER POLLUTION CONTROL.

14. LIMITS OF DRIVEWAY APRON & SIDEWALK REPLACEMENT TO BE MARKED IN THE FIELD BY THE ENGINEER. ADDITIONAL DRIVEWAY & SIDEWALK REPLACEMENTS, NOT SHOWN ON THE PLANS MAY BE REQUIRED BY THE ENGINEER.

UTILITY NOTES

1. THIS PLAN SHOWS THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES (GAS, WATER, STORM SEWER, SANITARY SEWER, TELEPHONE, ELECTRIC, ETC.). THE PREPARER DOES NOT GUARANTEE THEIR ACCURACY OR CORRECTNESS. THE INFORMATION PROVIDED SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE UTILITY AS WELL AS THE SERVICE LATERALS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PRACTICE CARE DURING THE GRADING AND TRENCH EXCAVATION AND SHALL BE RESPONSIBLE FOR REPLACING ANY SERVICES THAT ARE DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

2. PRIOR TO ANY EXCAVATION OVER AN EXISTING UTILITY LINE OR SERVICE, CONTRACTOR SHALL HAND EXCAVATE TO EXPOSE THE UTILITY AND DETERMINE LOCATION AND DEPTH. NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS.

3. TOPS OF EXISTING AND PROPOSED CASTING ELEVATIONS ARE SUBJECT TO FINAL ADJUSTMENTS AS APPROVED BY THE ENGINEER AND REQUIREMENTS OF UTILITY OWNER. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT.

4. FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION.

STORM & SANITARY NOTES

1. ALL STORM AND SANITARY ITEMS SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS AND DETAILS FROM SD1. CONCRETE AND METAL PIPE MATERIALS SHALL NOT BE USED UNLESS OTHERWISE SPECIFIED ON THESE PLANS.

2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STORM AND SANITARY SEWER FLOW THROUGHOUT THE PROJECT, FOR THE DURATION OF CONSTRUCTION. ALL COST FOR THE ABOVE SHALL BE INCIDENTAL TO THE CONTRACT.

3. IF REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND SCHEDULING STORM AND SANITARY SEWER INSPECTIONS AS SET OUT IN THE PRECONSTRUCTION MEETING.

4. CONNECTIONS INTO EXISTING OR PROPOSED STORM OR SANITARY SEWER STRUCTURES OR PIPES SHALL BE COMPLETED BY A CERTIFIED TAPPER BY SD1.

WATER NOTES

1. ALL WORK RELATING TO WATER MAINS OR WATER SERVICE LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NORTHERN KENTUCKY WATER DISTRICT (NKWD).

2. CONTRACTOR MAY NOT USE WATER FROM FIRE HYDRANTS WITHOUT PRIOR PERMISSION FROM NKWD

GAS NOTES

1. ALL WORK RELATING TO GAS MAINS OR GAS SERVICE LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE ENERGY

ELECTRIC NOTES

1. ALL WORK RELATING TO ELECTRIC LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE ENERGY

UTILITY CONTACTS

DUKE ELECTRIC
BILL HOFTETTER
2010 DANA AVENUE, EF 324
CINCINNATI, OH 45207

DUKE GAS
BRIAN HOLLMAN
617 TOHUNTER ROAD
MONROE, OH 45050

ALTAFIBER
TIM SEESTEDT / UNDERGROUND
JODI WILDEBOER / OVERHEAD
221 E. FOURTH ST, ML 121-900
CINCINNATI, OH 45201

SPECTRUM
CHUCK MCCARTY
10920 KENWOOD ROAD
CINCINNATI, OH 45252

NORTHERN KENTUCKY WATER DISTRICT
KYLE RYAN
P.O. BOX 18640
ERLANGER, KY 41018

SANITATION DISTRICT NO 1
ALEX STAMPER
1045 EATON DRIVE
FT WRIGHT, KY 41017

MAINTENANCE OF TRAFFIC NOTES

1. ALL MAINTENANCE OF TRAFFIC PROCEDURES SHALL MEET THE REQUIREMENT OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SECTION 112 OF KTC STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL TRAFFIC (ACCESS TO RESIDENCES WITHIN CONSTRUCTION LIMITS) AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SIGN, WARNING LIGHTS, BARRICADES, OR OTHER NECESSARY DEVICES MAKE THE SITE SAFE TO THE TRAVELING PUBLIC.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT TO THE ENGINEER AND THE OWNER A TRAFFIC CONTROL PLAN FOR THIS PROJECT.

3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY CAMPBELL COUNTY AND THEIR POLICE AND FIRE DEPARTMENTS . AT ALL TIMES, EMERGENCY VEHICLES SHALL BE GIVEN ACCESS.

4. RESIDENTS OF THE PROJECT AREA SHALL BE ALLOWED ACCESS TO THEIR PROPERTY AT ALL TIMES.

5. EACH DRIVEWAY SHALL BE ACCESSIBLE WHENEVER POSSIBLE. WHEN PORTLAND CEMENT CONCRETE CONSTRUCTION AFFECTS A DRIVEWAY, THE CONTRACTOR SHALL NOTIFY THE AFFECTED OWNERS 24 HOURS IN ADVANCE AND ADVISE THEM TO FIND ALTERNATIVE PARKING FOR A PERIOD OF AT LEAST 10 CALENDAR DAYS AFTER THE POUR. ALTERNATIVE PARKING SHALL INCLUDE "ON STREET" PARKING WITH ACCESS TO THE PROPERTY. TEMPORARY SIDEWALKS, ETC. WILL BE NECESSARY TO PREVENT PERSONS FROM WALKING IN MUD IN ORDER TO ENTER THEIR PROPERTY. TEMPORARY BRIDGES, RAILINGS ETC. WILL BECOME NECESSARY IN ORDER TO CROSS FORMED CURB LINES, EXCAVATED AREAS BEHIND CURB LINES AND WALKWAYS, ETC.

ABBREVIATIONS:

AS - APPROACH SLAB
C/C - CENTER TO CENTER
C/L - CENTERLINE
C&MS - CONSTRUCTION AND MATERIALS SPECIFICATION
CY - CUBIC YARDS
DIA. - DIAMETER
EL - ELEVATION
EX. - EXISTING
FT - FEET
GAL - GALLON
LS - LUMP SUM
LT. LEFT
N.F. - NEAR FACE
O/O - OUT TO OUT
PR. - PROPOSED
R/W - RIGHT OF WAY
RT. - RIGHT
STA. - STATION
T - THICKNESS
TYP. -TYPICAL
ST - STREET
SY - SQUARE YARDS
SF - SQUARE FEET
SCD - STANDARD CONSTRUCTION DRAWING
STO - STORM
VCP - VITRIFIED CLAY PIPE
Ø - DIAMETER

EROSION CONTROL LEGEND

SF — PROPOSED SILT FENCE (SEE DETAIL)

HATCH LEGEND

EXISTING PAVEMENT TO BE REMOVED

SYMBOL LEGEND

EXISTING GAS LINE
EXISTING GAS SERVICE
EXISTING ELECTRIC (UNDERGROUND / OVERHEAD)
EXISTING CABLE (UNDERGROUND / OVERHEAD)
EXISTING TELEPHONE (UNDERGROUND / OVERHEAD)
EXISTING WATER MAIN
EXISTING WATER SERVICE
EXISTING STORM SEWER
EXISTING ROOF DRAIN
EXISTING SANITARY SEWER
EXISTING SANITARY FORCE MAIN
EXISTING FIBER OPTICS
EXISTING FENCE
EXISTING CONTOURS (MAJOR)
EXISTING CONTOURS (MINOR)
EXISTING RIGHT OF WAY
EXISTING PROPERTY LINE
EXISTING EASEMENT
EXISTING GUARDRAIL
EXISTING TREE LINE

PROPOSED GAS LINE
PROPOSED GAS SERVICE
EXISTING ELECTRIC (UNDERGROUND / OVERHEAD)
PROPOSED CABLE (UNDERGROUND / OVERHEAD)
PROPOSED TELEPHONE (UNDERGROUND / OVERHEAD)
PROPOSED WATER MAIN
PROPOSED WATER SERVICE
PROPOSED STORM SEWER
PROPOSED UNDERDRAIN
PROPOSED UNDERDRAIN / DOWNSPOUT COLLECTOR COMBO
PROPOSED SANITARY SEWER
PROPOSED SANITARY FORCE MAIN
PROPOSED FIBER OPTICS
PROPOSED FENCE
PROPOSED CONTOURS (MAJOR)
PROPOSED CONTOURS (MINOR)
PROPOSED RIGHT OF WAY
PROPOSED PROPERTY LINE
PROPOSED EASEMENT
PROPOSED GUARDRAIL
PROPOSED TREE LINE / CLEARING LIMITS
PROPOSED DISTURBED LIMITS

EXISTING FLAGPOLE
EXISTING MAILBOX
EXISTING SIGN
EXISTING CABLE PEDESTAL
EXISTING ELECTRIC PEDESTAL
EXISTING PULL BOX
EXISTING GROUND LIGHT
EXISTING LIGHT POLE
EXISTING ELECTRIC METER
EXISTING ELECTRIC MANHOLE
EXISTING GAS METER
EXISTING GAS VALVE
EXISTING GAS BOX
EXISTING UTILITY POLE
EXISTING GUY WIRE / ANCHOR
EXISTING SANITARY MANHOLE
EXISTING SANITARY CLEANOUT
EXISTING STORM MANHOLE
EXISTING SINGLE / DOUBLE CURB INLET
EXISTING CATCH BASIN
EXISTING STORM CLEANOUT
EXISTING TELEPHONE MANHOLE
EXISTING TELEPHONE PEDESTAL
EXISTING FIRE HYDRANT
EXISTING WATER METER
EXISTING WATER VALVE
EXISTING BUSHES / TREES
EXISTING SURVEY BENCHMARK
TEST BORING LOCATION

PROPOSED FLAGPOLE
PROPOSED MAILBOX
PROPOSED SIGN
PROPOSED CABLE PEDESTAL
PROPOSED ELECTRIC PEDESTAL
PROPOSED PULL BOX
PROPOSED GROUND LIGHT
PROPOSED LIGHT POLE
PROPOSED ELECTRIC METER
PRPOSED ELECTRIC MANHOLE
PROPOSED GAS METER
PROPOSED GAS VALVE
PROPOSED GAS BOX
PROPOSED UTILITY POLE
PROPOSED GUY WIRE / ANCHOR
PROPOSED SANITARY MANHOLE
PROPOSED SANITARY CLEANOUT
PROPOSED STORM MANHOLE
PROPOSED SINGLE / DOUBLE CURB INLET
PROPOSED CATCH BASIN
PROPOSED STORM CLEANOUT
PROPOSED TELEPHONE MANHOLE
PROPOSED TELEPHONE PEDESTAL
PROPOSED FIRE HYDRANT
PROPOSED WATER METER
PROPOSED WATER VALVE
REMOVE EXISTING BUSH / TREE
PROPOSED SLOPE DIRECTION

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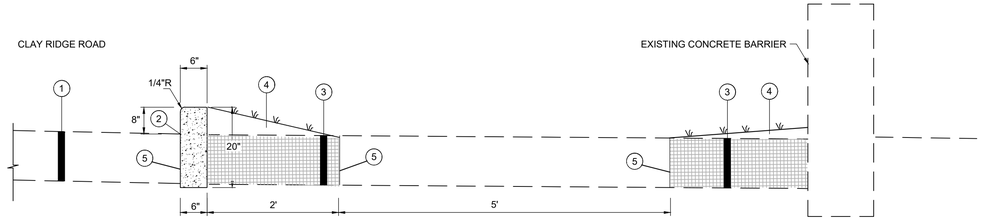
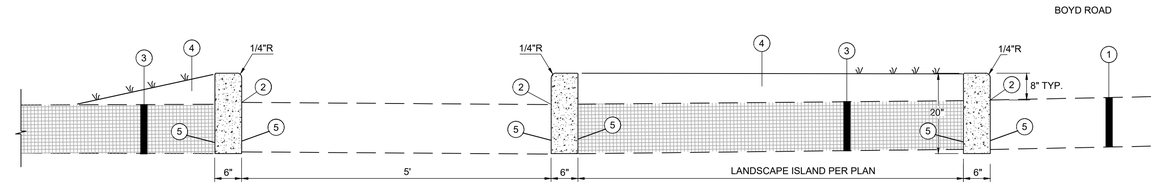
BOYD ROAD BRIDGE PEDESTRIAN IMPROVEMENTS
CAMPBELL COUNTY, KENTUCKY

NOTES AND LEGEND

PROJECT NO. 230415
DISCIPLINE: CIVIL
SHEET NAME: NOTES
SHEET 2 OF 6



SECTION X-X AT CLAY RIDGE ROAD
8" VERTICAL CURB
N.T.S.



SECTION Y-Y AT BOYD ROAD / SHORT SIRY ROAD
8" VERTICAL CURB
N.T.S.

1. EXISTING CLAY ROADWAY PAVEMENT
2. APPLY HOT ASPHALT SEALER WHERE ASPHALT MEETS CURB (INCIDENTAL TO ITEM 402/403).
3. EXISTING BOYD ROAD PAVEMENT TO BE REMOVED (8" MAX.) BACKFILL WITH CLEAN FILL
4. TOPSOIL, SEED AND PROTECT
5. SAWCUT PAVEMENT TO CLEAN EDGE

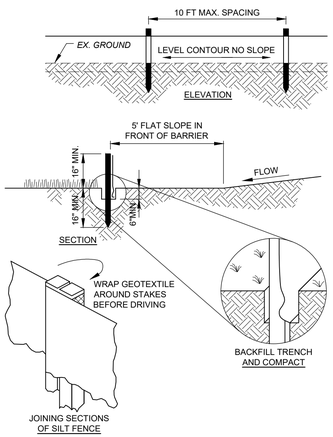
NOTE: 3/4" DIAMETER DOWELS, 18" LONG, 12" O.C. PLACED AT EXPANSION AND CONSTRUCTION JOINTS.

CONCRETE SHALL BE PER THE LATEST EDITION OF THE CAMPBELL COUNTY SUBDIVISION REGULATIONS

BOYD ROAD GUARDRAIL REPLACEMENT PLAN

GUARDRAIL REPLACEMENT NOTES

- (A) EXISTING GUARDRAIL TO BE REMOVED AND REPLACED - ±400 L.F.
- (B) 40' ± ADDITIONAL GUARDRAIL, EXTEND TO EXISTING UTILITY POLE
- (C) GUARDRAIL END TREATMENT, TYPE 2A, WITH CABLE ASSEMBLY, INCLUDES OBJECT MARKER TYPE 3
- (D) GUARDRAIL END TREATMENT, TYPE 4A, INCLUDES OBJECT MARKER TYPE 3



NOTES:

1. PRESERVE VEGETATION FOR 5 FEET, OR AS MUCH AS POSSIBLE, UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM SILT FENCE INSTALLATION.
2. SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. PERFORM ONE OF THE FOLLOWING IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW:
   - CHANGE THE LAYOUT OF THE SILT FENCE.
   - REMOVE ACCUMULATED SEDIMENT.
   - INSTALL OTHER PRACTICES.

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MIN	ASTM D-1682
MULLEN BURST STRENGTH	190 PSI MIN	ASTM D-3786
SLURRY FLOW RATE	0.3 GAL./MIN./S.F. MAX.	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MIN	ASTM-G-26

(SF) —— SF ——

SILT FENCE
SCALE: NONE

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DETAILS

PROJECT NO. 230415
DISCIPLINE: CIVIL
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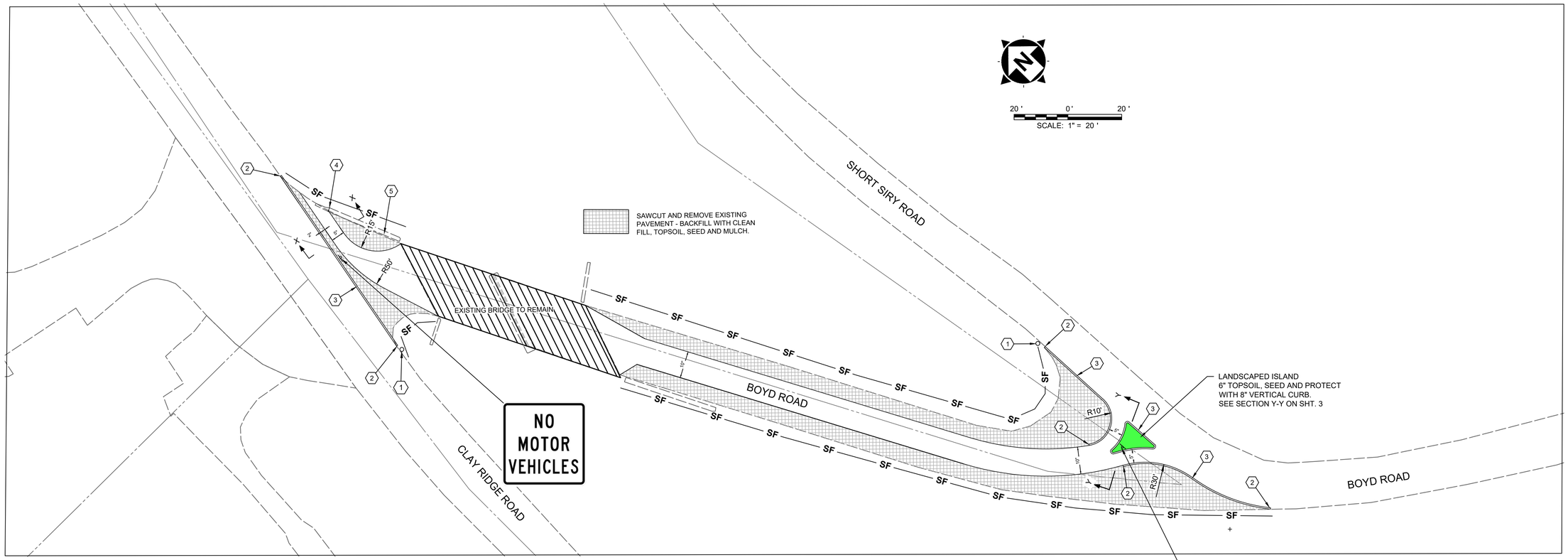
SHEET 3 OF 6



GENERAL CONSTRUCTION NOTES

1. INSTALL OBJECT MARKER, TYPE 3, X-OM-3R, WITH POST
2. TAPER 8" CURB TO 2" OVER 4'
3. 8" VERTICAL CURB
4. SAWCUT CONCRETE BARRIER TO CLEAN, SMOOTH EDGE
5. PROPOSED SKIM COAT / CONCRETE PARGING OF ALL EXPOSED WALL FACES

EROSION CONTROL LEGEND

SF — SILT FENCE PER DETAIL, SHT 3

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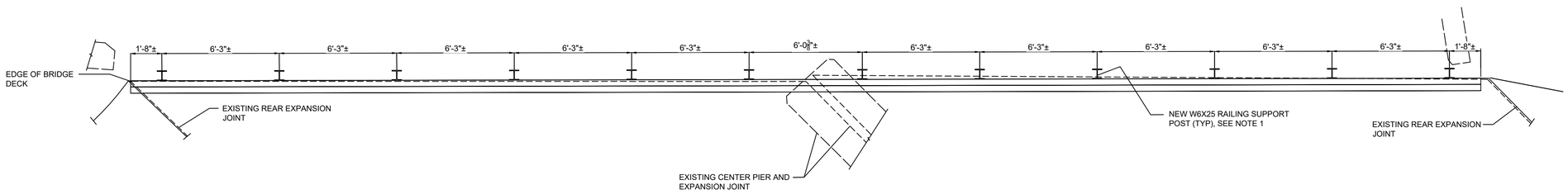
CAMPBELL COUNTY, KENTUCKY

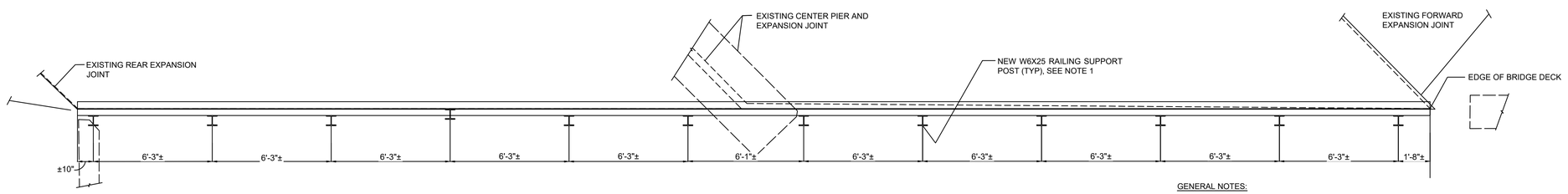
PLAN SHEET

PROJECT NO.
230415
DISCIPLINE
CIVIL
SHEET NAME
PLAN

SHEET	OF
4	6



LEFT (NORTH) GUARDRAIL
SCALE: 1" = 3'



RIGHT (SOUTH) GUARDRAIL
SCALE: 1" = 3'

GENERAL NOTES:

1. DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE GUARDRAIL HAVE BEEN OBTAINED BY FIELD MEASUREMENT. CONSEQUENTLY, ALTHOUGH THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK, THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. EACH CONTRACTOR SUBMITTING A BID SHALL MAKE A THOROUGH INSPECTION OF THE GUARDRAIL POSTS AND THEIR ANCHORAGE TO THE BRIDGE DECK AND BASE THEIR BID PRICE UPON A RECOGNITION OF THE UNCERTANTIES DESCRIBED ABOVE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN FIELD VERIFIED.

2. REFER TO OHIO DOT (ODOT) STANDARD BRIDGE DRAWING TST-1-99, REVISED 1-15-2021 FOR THE FOLLOWING APPLICABLE GENERAL NOTES:
   - DESIGN DATA:
     - STEEL TUBING
   - MATERIALS:
     - STEEL TUBING
     - STRUCTURAL STEEL SHAPES, PLATES & PLATE WASHERS
   - GALVANIZING:
     - STRUCTURAL STEEL SHAPES, PLATES & PLATE WASHERS AND FASTENERS
   - METHOD OF MEASUREMENT
   - BASIS OF PAYMENT
   - DETAILS:
     - 3/4" DIA. ROUND HEAD BOLT

3. RAILING ANCHOR POST SPACING SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION OF NEW RAILING.

3. FOR SPECIAL POST MOUNTING DETAILS, SEE SHEET 6/6.

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CAMPBELL COUNTY, KENTUCKY

PEDESTRIAN GUARDRAIL MODIFICATIONS PLAN

PROJECT NO.	
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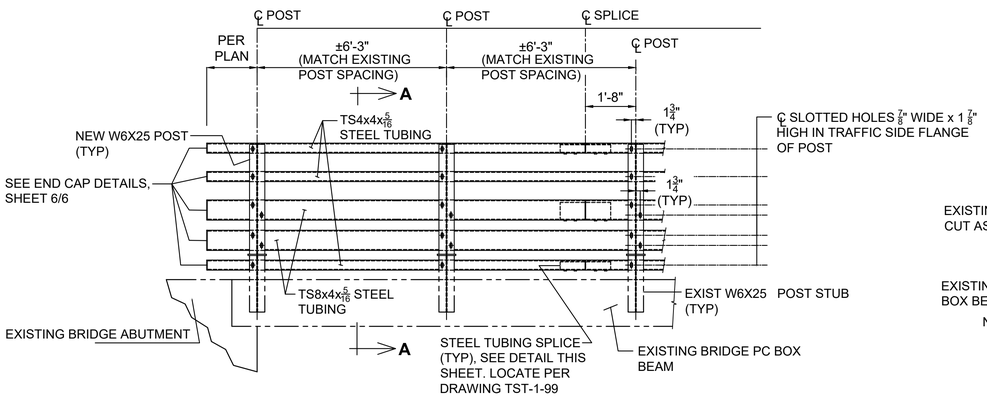
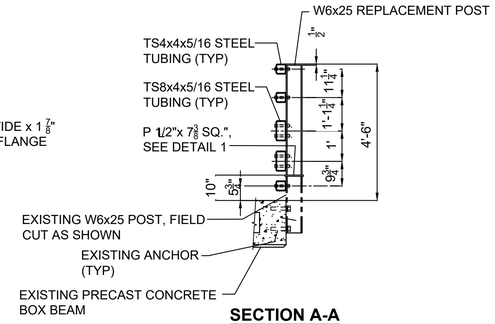
S1	
SHEET	OF
5	6



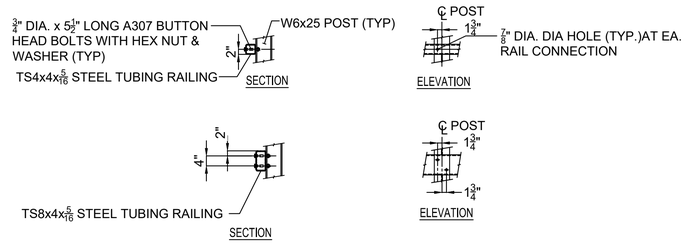
RAILING ELEVATION



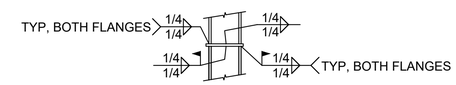
SECTION A-A

NOTE:

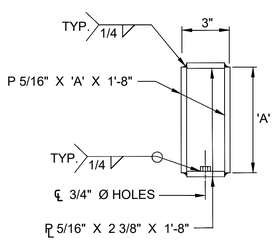
1. PRIOR TO WELDING, REMOVE ZINC COATING FROM ALL WELD AREAS BY GRINDING OR OTHER APPROVED MECHANICAL MEANS TO A MINIMUM OF 1 INCH (25 MM) BEYOND THE WELD ZONE. ENSURE SURFACES ARE CLEAN AND FREE OF CONTAMINANTS. AFTER WELDING, REPAIR DAMAGED GALVANIZED COATING USING ZINC-RICH PAINT PER ODOT CMS 711.02



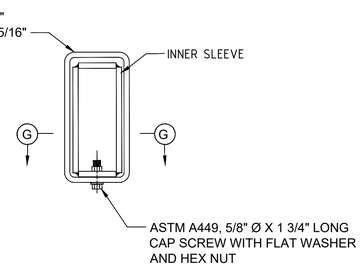
RAILING CONNECTION DETAIL



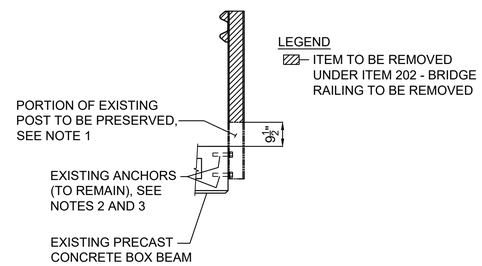
DETAIL 1



FINISHED DIMENSIONS OF INNER SLEEVE



SECTION THRU SPLICE



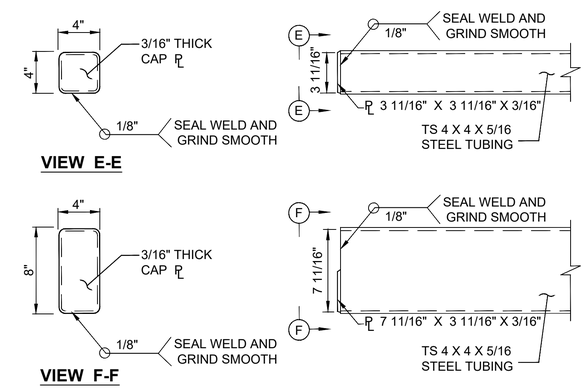
REMOVAL DETAILS

NOTE:

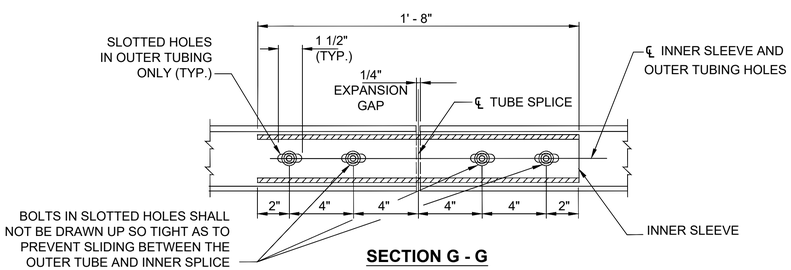
1. IF THE PORTION OF THE POST INDICATED TO REMAIN IS TOO DETERIORATED FROM CORROSION FOR REUSE AS SHOWN, AT THE CONTRACTOR'S OPTION, IF APPROVED BY THE ENGINEER THE POST MAY BE REMOVED AND REPLACED. A CONTINGENCY QUANTITY OF 5 POSTS IS INCUDED UNDER ITEM 202 - GUARDRAIL POST REMOVED, AS PER PLAN; ITEM 606 - GUARD POST, AS PER PLAN; AND ITEM 506 - RAILING MISC., AS PER PLAN.

2. WHERE EXISTING ANCHORS ARE LOOSE, REQUIRE REPLACEMENT, OR AN ANCHORAGE MODIFICATION IS REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER, TO ADDRESS AN UNFORSEEN FIELD CONDITION IT SHALL BE PAID FOR UNDER ITEM 506 - RAILING MISC., AS PER PLAN. A CONTINGENCY QUANTITY OF 10 POST LOCATIONS HAS BEEN ASSUMED FOR THIS PURPOSE.

3. BEFORE ATTEMPTING TO REMOVE OR RE-TIGHTEN EXISTING ANCHORS, LIBERALLY APPLY A PENETRATING SOLVENT (LIKE LIQUID-WRENCH OR WD-40). AFTER SEVERAL APPLICATIONS OF SOLVENT AND TAPPING THE HEAD OF THE BOLT WITH A HAMMER, USING A WRENCH, APPLY SLIGHT PRESSURE IN THE TIGHENTING DIRECTION AND THEN IN THE OPPOSITE DIRECTION. CONTINUE THIS SEQUENCE UNTIL THE BOLT UNLOOSENS FREELY. RE-TIGHTEN LOOSE ANCHORS THAT ARE TO REMAIN. INSTALL NEW ANCHORS WHERE POSTS ARE TO BE REPLACED.



END CAP DETAILS



SECTION G - G

STEEL TUBE (TS) SPLICE DETAILS

TS 8" X 4" X 5/16" - 'A' DIMENSION = 7"
TS 4" X 4" X 5/16" - 'A' DIMENSION = 3"

GENERAL NOTES:

1. FOR FULL BRIDGE RAILING LAYOUT, SEE SHEET 5/6
2. POST, TUBING AND ALL CONNECTION HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ODOT 711.02.
3. RAILING ANCHORS POST SPACING SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION OF NEW RAILING.
4. ODOT ITEM 517, RAILING (STEEL TUBE, AS PER PLAN).

   BRIDGE RAILING SHALL BE INSTALLED AS ON SHEETS 5 AND 6. INCLUDE FIVE CONTINUOUS TUBINGS (ON BOTH RAILINGS), NEW POSTS ATTACHED TO THE FIELD MODIFIED EXISTING POSTS.

   PAYMENT FOR ALL LABOR, MATERIALS, TOOLS AND INCIDENTALS NEEDED TO FABRICATE AND INSTALL BRIDGE RAILINGS SHALL BE INCLUDED IN CONTRACT "FOOT" PRICE BID FOR ITEM 517 - RAILING (TST-1-99 - MODIFIED), AS PER PLAN.

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FORT MITCHELL, KENTUCKY 41017
TEL. (859) 525-0544
WWW.VERDANTAS.COM

NO	REVISION	DATE

ISSUED FOR:	
ISSUE DATE:	10/09/2025
SCALE:	AS NOTED
DESIGNED BY:	FTWE
DRAWN BY:	EODS
CHECKED BY:	FTWE

BOYD ROAD BRIDGE PEDESTRIAN IMPROVEMENTS
CAMPBELL COUNTY, KENTUCKY

PEDESTRIAN GUARDRAIL MODIFICATIONS DETAILS

PROJECT NO. 230415
DISCIPLINE: CIVIL
SHEET NAME

SHEET 6 OF 6