



**LOCATION MAP**

LATITUDE: 39°16'10" LONGITUDE: -84°30'25"



PORTION TO BE IMPROVED	-----
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	=====
COUNTY & TOWNSHIP ROADS	=====
OTHER ROADS	-----

<b>DESIGN DESIGNATION</b>	SHARED USE PATH
CURRENT ADT (2026)	N/A
DESIGN YEAR ADT (2026)	N/A
DESIGN HOURLY VOLUME (2046)	N/A
DIRECTIONAL DISTRIBUTION	N/A
TRUCKS (24 HOUR B&C)	N/A
DESIGN SPEED	15 MPH
LEGAL SPEED	N/A
DESIGN FUNCTIONAL CLASSIFICATION:	N/A

NHS PROJECT ----- NO

DESIGN EXCEPTIONS NONE

ADA DESIGN WAIVERS NONE

**UNDERGROUND UTILITIES**

CONTACT TWO WORKING DAYS BEFORE YOU DIG.

OHIO811, 8-1-1, OR 1-800-362-2764  
(Non-members must be called directly)

PLAN PREPARED BY:



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# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## HAM - WINTON WOOD TO GLENWOOD GARDENS TRAIL

### SPRINGFIELD TOWNSHIP VILLAGE OF WOODLAWN VILLAGE OF GREENHILLS CITY OF FOREST PARK HAMILTON COUNTY

FEDERAL PROJECT NO.: E240426

RAILROAD INVOLVEMENT: NONE

**PROJECT DESCRIPTION**

CONSTRUCTION OF A SHARED USE TRAIL CONNECTING THE WINTON WOODS PARK PATH NETWORK TO CARLSBAD ROAD, SPRINGFIELD PIKE, AND THE WEST FORK MILL CREEK GREENWAY AT GLENWOOD GARDENS PARK.

PROJECT EARTH DISTURBED AREA: 14.32 ACRES

ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.29 ACRES

NOTICE OF INTENT EARTH DISTURBED AREA: 14.61 ACRES

**2023 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS 19-29, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

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**ENGINEERS SEAL:**

FOR PLANS PREPARED BY 143 ENGINEERS

**ENGINEERS SEAL:**

FOR PLANS PREPARED BY KZF DESIGN

# FINAL TRACINGS

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS					
BP 3.1	1/19/24	CB 2-3	7/19/24	TC 41.20	10/18/13	MT 97.10	4/19/19	800	1/17/25	SP-WATERWAY
BP 4.1	7/19/13			TC 41.30	4/21/23	MT 97.12	1/20/17	832	7/19/24	PERMIT CONDITONS
BP 5.1	7/15/22	HW 2.1	7/15/22	TC 41.40	10/18/13	MT 101.60	4/21/23	836	1/19/24	4/11/2025
BP 7.1	7/19/24	HW 2.2	7/20/18	TC 42.10	10/18/13	MT 101.90	7/17/20	838	1/15/21	
				TC 52.10	10/18/13	MT 105.10	1/17/20	851	7/19/24	
RM 1.1	1/20/23	DM 1.1	7/17/20	TC 52.20	1/15/21	MT 110.10	7/19/13	870	7/21/23	
RM 5.1	7/18/14	DM 1.2	7/16/21	TC 71.10	4/21/23	MT 125.00	4/21/23	878	1/21/22	
RM 5.2	7/21/23	DM 2.1	1/18/13	TC 74.10	7/12/23			880	1/21/22	
		DM 4.3	1/15/16	TC 83.20	7/19/24			884	10/19/18	
		DM 4.4	1/15/16	TC 87.10	7/19/23			902	7/19/19	
		EXJ 3.82	1/18/13							

**ENGINEERS SEAL:**

FOR PLANS PREPARED BY RIBWAY ENGINEERING GROUP, INC.

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*Douglas A. Gruver*  
Douglas A. Gruver, P.E.  
District 08 Deputy Director

*Pamela Boratyn*  
Pamela Boratyn  
Director, Department of Transportation

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DESIGNER	SCR
REVIEWER	SCR
PROJECT ID	5/2/2025
	117016
SHEET	TOTAL
P.01	369

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611CONDUIT ITEMS

CULTURAL RESOURCE SENSITIVE EXCAVATION AREA

ODOT SHALL MONITOR THE ENVIRONMENTALLY SENSITIVE RESOURCE DURING CONSTRUCTION TO RECORD AND RECOVER ANY ARCHAEOLOGICAL MATERIAL THAT MIGHT BE UNCOVERED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE PROPOSED CONSTRUCTION SCHEDULE A MINIMUM OF 30 DAYS PRIOR TO ANY WORK PERFORMED BETWEEN STA 234+19 TO STA 237+74. THE ENGINEER WILL CONTACT THE DISTRICT ENVIRONMENTAL COORDINATOR, WHO WILL NOTIFY ODOT'S OFFICE OF ENVIRONMENTAL SERVICES (OES) SO THAT THE OES STAFF CAN BE PRESENT. NO EXCAVATION WORK IS ALLOWED WITHOUT THE PRESENCE OF OES STAFF UNLESS THE CONTRACTOR RECEIVES A WRITTEN WAIVER FROM OES.

ITEM 202 - GATE REMOVED, AS PER PLAN

ALL ABOVE GROUND PORTIONS OF THE GATE INCLUDING THE GATE, POSTS, AND RECEIVING POSTS SHALL BE REMOVED IN THEIR ENTIRETY. LOCKS SHALL NOT BE DAMAGED AND SHALL BE RETURNED TO GREAT PARKS FOR USE ON NEW GATE. POST FOUNDATIONS SHALL BE REMOVED TO THE EXTENT REQUIRED TO COMPLETE THE WORK.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - GATE REMOVED, AS PER PLAN.

ITEM 202 - FENCE REMOVED, AS PER PLAN

LIMITS OF FENCE REMOVAL TO BE APPROVED BY THE ENGINEER ON SITE. REMOVE FENCE TO THE NEAREST POST UNLESS OTHERWISE DIRECTED. REMAINING FENCE TO BE A MINIMUM OF 5' FROM THE EDGE OF TRAIL.

ALL ABOVE GROUND PORTIONS OF THE FENCE INCLUDING FENCE AND POSTS SHALL BE REMOVED IN THEIR ENTIRETY. POST FOUNDATIONS SHALL BE REMOVED TO THE EXTENT REQUIRED TO COMPLETE THE WORK.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - FENCE REMOVED, AS PER PLAN.

ITEM 202 - REMOVAL MISC: MODULAR BLOCK LANDSCAPING WALL

THIS ITEM SHALL INCLUDE THE REMOVAL OF THE MODULAR BLOCK LANDSCAPING WALL AND ASSOCIATED LANDSCAPING IN ITS ENTIRETY. CONTRACTOR TO PROTECT NEARBY TREE AND FENCING.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - REMOVAL MISC: MODULAR BLOCK LANDSCAPING WALL

ITEM 202 - REMOVAL MISC: BAT BOX

THIS ITEM SHALL INCLUDE THE REMOVAL OF AN EXISTING BAT BOX. BAT BOX REMOVAL SHALL BE LIMITED TO THE DATES LISTED IN THE BAT HABITAT REMOVAL NOTE ON SHEET 17.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - REMOVAL MISC: BAT BOX

ITEM 202 - REMOVAL MISC: BOUNDARY MARKER

THIS ITEM SHALL INCLUDE THE REMOVAL OF AN EXISTING BOUNDARY MARKER TO THE EXTENT REQUIRED TO COMPLETE WORK.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - REMOVAL MISC: BOUNDARY MARKER

ITEM 202 - REMOVAL MISC: PET WASTE STATION

THIS ITEM SHALL INCLUDE THE REMOVAL OF AN EXISTING PET WASTE STATION. SALVAGE OR DISPOSE OF THE WASTE STATION PER THE DIRECTION OF THE FIELDSTONE APARTMENTS MANAGER.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - REMOVAL MISC: PET WASTE STATION

ITEM 202 - REMOVAL MISC: REFLECTOR POST

THIS ITEM SHALL INCLUDE THE REMOVAL OF AN EXISTING REFLECTOR POST TO THE EXTENT REQUIRED TO COMPLETE WORK.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 202 - REMOVAL MISC: REFLECTOR POST

ITEM 607, FENCE, MISC.: WOOD FENCE (RM-5.2)

THIS ITEM SHALL CONSIST OF CONSTRUCTING A WOOD BIKEWAY RAILING ACCORDING TO STANDARD CONSTRUCTION DRAWING RM-5.2 AT THE LOCATIONS SPECIFIED ON THE PLANS.

ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 607, FENCE, MISC.: WOOD FENCE.

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

THIS WORK SHALL CONSIST OF FULL DEPTH ASPHALT PAVEMENT REPLACEMENT. PROVIDE FULL DEPTH SAWCUT AND PAVEMENT REMOVAL TO THE LIMITS SHOWN IN THE PLANS. THE PROPOSED ASPHALT PAVEMENT SECTION SHALL MATCH SECTION PROVIDED BELOW OR THE EXISTING ROADWAY SECTION. WHICHEVER HAS THE HIGHER CBR.

ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22

ITEM 441 - 1 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)

ITEM 407 - TACK COAT (APPLIED @0.6 GAL/SQYD)

ITEM 301 - 9" ASPHALT CONCRETE BASE, (449), PG64-22

ITEM 304 - 6" AGGREGATE BASE

ITEM 206 - CEMENT STABILIZED SUBGRADE, 14" DEEP

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK UNDER ITEM 253 - PAVEMENT REPAIR, AS PER PLAN.

4f NOTES

GLENVIEW GOLF COURSE  
TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG PROPOSED CONSTRUCTION LIMITS WITHIN GLENVIEW GOLF COURSE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE EXISTING SECTION 4(F) PROPERTY AND THE PUBLIC.

APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF GLENVIEW GOLF COURSE OF CONSTRUCTION ACTIVITIES, ACCESS RESTRICTIONS OR CLOSURES, AND TO DIRECT USERS TO SECONDARY ACCESS POINTS.

THE CONTRACTOR SHALL BE REQUIRED TO CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH THE CINCINNATI RECREATION COMMISSION, KLINT LADD SUPERINTENDENT 513-3771-1747, PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

WINTON WOODS AND GLENWOOD GARDENS  
APPROPRIATE SIGNAGE WILL BE INSTALLED TO ALERT USERS OF WINTON WOODS AND GLENWOOD GARDENS OF CONSTRUCTION ACTIVITIES, IF IN PROXIMITY TO RECREATIONAL FACILITIES OR FEATURES.

THE CONTRACTOR WILL CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH GREAT PARKS OF HAMILTON COUNTY PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

ACCESS TO WINTON WOODS AND GLENWOOD GARDENS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.

TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG PROPOSED CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION WHERE THE GLENWOOD GARDENS & WINTON WOODS PARK USERS AND THE PUBLIC MAY BE NEARBY TO PREVENT THEM FROM ACCIDENTALLY ENTERING THE CONSTRUCTION AREA.

AIRWAY/HIGHWAY CLEARANCE FOR PUBLIC AIRPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF ZERO (0) PRIVATE USE AIRPORTS AND ONE (1) PRIVATE HELIPORT LISTED IN THE TABLE BELOW.

POTENTIALLY IMPACTED AIRPORTS	AIRPORT ELEVATION "A"	PROJECT ELEVATION "B" + 25 feet (Controlling Criteria)	DISTANCE BETWEEN AIRPORT & PROJECT "C"	NOTIFICATION SLOPE X:1	USE TYPE	AMOUNT OF CLEARANCE ABOVE NOTIFICATION SLOPE "Z"
VALLEY ASPHALT HELIPORT "A"	580 ft.	623' + 25' = 648 ft.	15307 ft.	25:01	PRIVATE	545'

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT, AT MAXIMUM OPERATING HEIGHT, SHALL EXCEED THE HEIGHTS (Z) PROVIDED IN THE TABLE ABOVE. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, COORDINATION WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. FOR PRIVATE USE AIRPORTS, COORDINATION SHALL BE WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL COORDINATION IS MET AND DOCUMENTATION HAS BEEN FURNISHED TO THE PROJECT ENGINEER. IF COORDINATION IS NOT OBTAINED, THEN THE PROJECT ENGINEER WILL HAVE THE AUTHORITY TO PROVIDE RESTRICTIONS AS REQUIRED.

FAA CONTACT INFORMATION:  
EXPRESS PROCESSING CENTER  
THE FEDERAL AVIATION ADMINISTRATION  
SOUTHWEST REGIONAL OFFICE  
AIR TRAFFIC AIRSPACE BRANCH ASW-520  
2601 MEACHAN BLVD.  
FORT WORTH, TX 76137-4298

ODOT OFFICE OF AVIATION CONTACT INFORMATION:  
OHIO DEPARTMENT OF TRANSPORTATION OFFICE OF AVIATION  
2829 WEST DUBLIN-GRANVILLE ROAD  
COLUMBUS, OHIO 43235  
(614)-387-2346

"PCB" REFERS TO "PORTABLE CONCRETE BARRIER"  
"OMUTCD" REFERS TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.  
"SCD" REFERS TO "STANDARD CONSTRUCTION DRAWING"  
"CMS" REFERS TO "CONSTRUCTION AND MATERIAL SPECIFICATION" ODOT, CURRENT EDITION.  
"MOT" REFERS TO "MAINTENANCE OF TRAFFIC"

DESIGN AGENCY



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DESIGNER

SCR

REVIEWER

SCR 4/30/2025

PROJECT ID

117016

SHEET

P.18

TOTAL

369

**ITEM 614, MAINTAINING TRAFFIC**

ON PUBLIC OR PRIVATE ROADS A MINIMUM OF 1 LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT. TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES WITH FLAGGING OPERATIONS AS DETAILED IN SCD MT-097.10 AND THESE PLANS.

SERVICE DRIVES SHALL BE CLOSED WHILE WORK IS BEING PERFORMED. ACCESS TO DRIVES SHALL BE GRANTED UPON REQUEST. LENGTH AND DURATION OF CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE SERVICE DRIVE USERS. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

- NEW YEAR'S (OBSERVED)
- GENERAL/REGULAR ELECTION DAY (NOV)
- THANKSGIVING
- MEMORIAL DAY
- CHRISTMAS (OBSERVED)
- FOURTH OF JULY (OBSERVED)
- (OTHER HOLIDAY OR SPECIAL EVENT)
- LABOR DAY

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

HOLIDAY CLOSURE TABLE	
DAY OF HOLIDAY OR SPECIAL EVENT	TIME ALL LANES MUST BE OPEN TO PUBLIC
SUNDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION)	5:00AM TUESDAY THROUGH 12:00AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00AM WEDNESDAY THROUGH 6:00AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

NEWLY CONSTRUCTED LANE ADDITIONS, ONCE COMPLETED AND INITIALLY OPENED TO TRAFFIC, SHALL BE OPEN TO TRAFFIC DURING ALL SUBSEQUENT DESIGNATED HOLIDAYS AND SPECIAL EVENTS, AND RELATED PERIODS OF TIME, SPECIFIED ABOVE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

**ITEM 614, MAINTAINING TRAFFIC. (CONT.)**

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION (513-933-6600). THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN TRAFFIC SCD MT-101.60 AT THE LOCATIONS SHOWN IN THESE PLANS± DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN IN THESE PLANS

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**SHARED USE PATH AND SIDEWALK CLOSURES**

THE CONTRACTOR SHALL ERECT AND MAINTAIN TYPE I BARRICADES WITH "SIDEWALK CLOSED" SIGNS FOR THE DURATION OF THIS PROJECT. ADVANCED WARNING SIGNS SHALL BE INSTALLED WHEN APPROACHING PEDESTRIAN OR CYCLIST TRAFFIC IS NOT REQUIRED TO STOP AT THE LOCATION OF THE CLOSURE OR AS DIRECTED BY THE ENGINEER.

SIGNS SHALL BE PLACED AT ALL ROADWAY CROSSINGS, DRIVEWAYS, OR OTHER ACCESS POINTS WHERE PEDESTRIAN OR CYCLIST TRAFFIC CAN ENTER THE WORK AREA. ADDITIONAL BARRIERS AND/OR ADVANCED WARNING SIGNS CAN BE PLACED AT THE DISCRETION OF THE ENGINEER WHEN THE WORK AREA CANNOT BE SEEN FROM A TRAIL ACCESS POINT.

FOR FURTHER INFORMATION, SEE SCD MT-110.10

ALL COMPLETED SHARED USE PATH SEGMENTS SHALL BE OPENED TO THE PUBLIC. A SEGMENT SHALL BE CONSIDERED COMPLETE WHEN ALL WORK BETWEEN TWO ACCESS POINTS HAS BEEN FINISHED. THE PATH CAN BE OPENED TO THE PUBLIC PRIOR TO THE INSTALLATION OF THE SURFACE COURSE OR LANDSCAPING WORK AT THE DISCRETION OF THE ENGINEER. SERVICE DRIVES ARE NOT CONSIDERED ACCESS POINTS TO THE TRAIL.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

**OVERNIGHT TRENCH CLOSING**

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 12 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UN-COMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

**FLOODLIGHTING**

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHT TIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

**642-58 NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTICE CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 CALENDAR DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

- "PCB" REFERS TO "PORTABLE CONCRETE BARRIER"
- "OMUTCD" REFERS TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.
- "SCD" REFERS TO "STANDARD CONSTRUCTION DRAWING"
- "CMS" REFERS TO "CONSTRUCTION AND MATERIAL SPECIFICATION" ODOT, CURRENT EDITION.
- "MOT" REFERS TO "MAINTENANCE OF TRAFFIC"

**WINDOW CONTRACT TABLE**

WINDOW CONTRACT TABLE				
DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DISINCENTIVE \$ PER DAY	WORK WINDOW	
			START	END
ALL IN-STREAM WORK INCLUDING 611 INSPECTION AND ACCEPTANCE	ENTIRE WINDOW	\$3,500	4/11/2025	3/1/2027

PHASE 1 - PARK GARAGE DRIVEWAY AND LAKEVIEW DRIVE SHARED USE PATH CONSTRUCTION

MAINTAIN ONE 10' LANE IN THE SOUTHBOUND DIRECTION OF LAKEVIEW DRIVE USING THE EXISTING PAVEMENT, DRUMS, AND FLAGGERS AS SHOWN IN SCD MT 097.10 AND THE MOT PLANS.

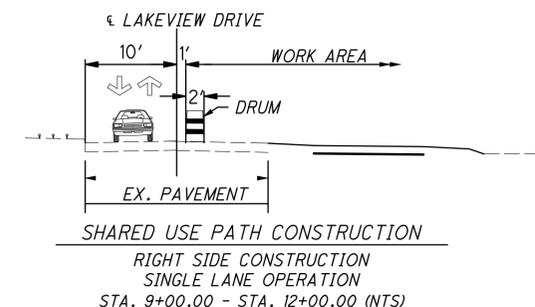
THE GATE TO THE WEST ENTRANCE OF THE PARK GARAGE SHALL REMAIN CLOSED AND LOCKED AT ALL TIMES UNTIL THE RECONSTRUCTION OF THE DRIVEWAY IS COMPLETE. A TYPE 3 BARRICADE WITH ROAD CLOSED SIGN R11-2-48 SHALL BE PLACED ON THE OPPOSITE SIDE OF THE GATE AS SHOWN IN THESE PLANS.

FLAGGING OPERATION SIGNAGE TO BE COVERED OR REMOVED AND TWO WAY TRAFFIC RESTORED WHEN WORK IS NOT BEING PERFORMED. DRUMS SHALL BE MOVED THE RIGHT EDGE OF THE ROADWAY WHEN TWO WAY TRAFFIC IS IN OPERATION.

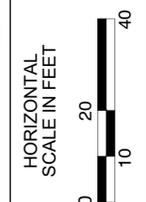
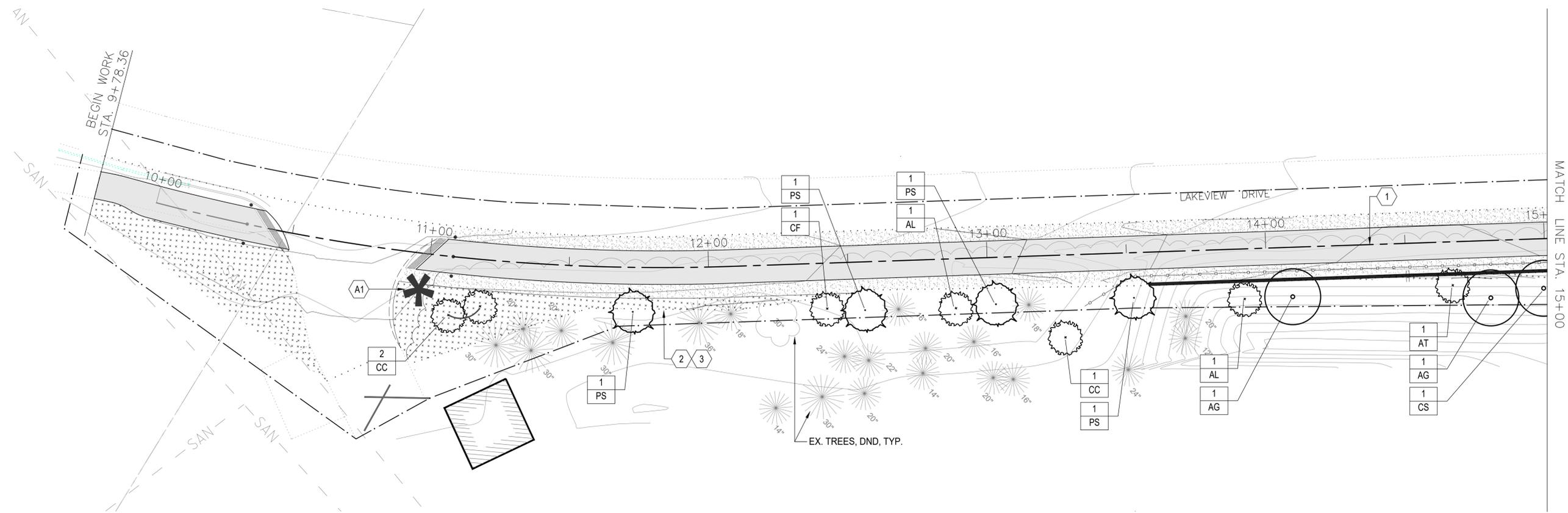
SAWCUT EXISTING PAVEMENT, CONSTRUCT PROPOSED TRAIL, WALLS AND RAILING. SEED AND MULCH EXPOSED SOIL.

MOT EQUIPMENT SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.



SHEET NUM.														PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	
184	185	292	249E-287											1/CMO/28 /GPHC	EXT	TOTAL					
<b>LANDSCAPING</b>																					
			479												479	661	40081	479	EACH	DECIDUOUS TREE, 2" CALIPER, AS PER PLANFLOWERING / UNDERSTORY TREES	249A-249D
			370												370	661	40121	370	EACH	DECIDUOUS TREE, 3" CALIPER, AS PER PLANSHADE TREES	249A-249D
			74												74	661	50161	74	EACH	EVERGREEN TREE, 8' HEIGHT, AS PER PLANCONIFEROUS TREES	249A-249D
															1	661	99940	LS		PLANTING, MISC.:LANDSCAPING ITEMS	249A-249D
<b>RETAINING WALLS (XXX)</b>																					
480															480	204	13000	480	CY	EXCAVATION OF SUBGRADE	184
480	414														894	204	30020	894	CY	GRANULAR MATERIAL, TYPE C	184
1,120															1,120	204	50000	1,120	SY	GEOTEXTILE FABRIC	184
	5,283														5,283	503	21100	5,283	CY	UNCLASSIFIED EXCAVATION	
	12														12	511	46510	12	CY	CLASS QC1 CONCRETE, FOOTING	
	378														378	512	10100	378	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
	25														25	602	15001	25	CY	BLOCK MASONRY, AS PER PLAN	184
	402														402	602	97000	402	SF	MASONRY, MISC.: CAST STONE FACING	184
	101														101	602	98100	101	FT	MASONRY, MISC.: CAST STONE CAP	184
	1,391														1,391	838	20701	1,391	CY	GABIONS, AS PER PLAN	184
	2,151														2,151	870	10001	2,151	SF	PREFABRICATED MODULAR RETAINING WALL, AS PER PLAN	184
	1,119														1,119	870	12000	1,119	FT	6" DRAINAGE PIPE, PERFORATED	
	220														220	870	12100	220	FT	6" DRAINAGE PIPE, NON-PERFORATED	
	10														10	870	14000	10	DAY	ON-SITE ASSISTANCE	
<b>STRUCTURE OVER 20 FOOT SPAN (TOULON BRIDGE)</b>																					
		49													49	503	21101	49	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	290
		1													1	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
		750													750	507	00500	750	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	
		850													850	507	00550	850	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	
		14,001													14,001	509	10000	14,001	LB	EPOXY COATED STEEL REINFORCEMENT	
		34													34	511	34444	34	CY	CLASS QC2 CONCRETE, BRIDGE DECK	
		74													74	511	45710	74	CY	CLASS QC1 CONCRETE, ABUTMENT	
		26													26	512	10050	26	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
		28.6													28.6	516	10500	28.6	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC COMPRESSION SEAL	
		86													86	518	21200	86	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
		71													71	518	40000	71	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
		16													16	518	40010	16	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
		1													2	523	20000	2	EACH	DYNAMIC LOAD TESTING	
		1													1	SPECIAL	53000200	LS		STRUCTURES, SINGLE SPAN 100'-11 1/2" X 14'-4" PREFABRICATED PEDESTRIAN TRUSS BRIDGE	289
		252													252	601	32100	252	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
		2													2	611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	
		1													1	625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM	
<b>INCIDENTALS</b>																					
															1	108	10000	LS		CPM PROGRESS SCHEDULE	
															1	614	11000	LS		MAINTAINING TRAFFIC	
															16	614	11110	16	HOURLY	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
															24	619	16011	24	MNTH	FIELD OFFICE, TYPE B, AS PER PLAN	18A
															1	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
															1	623	11000	LS		PROVIDING ELECTRONIC INSTRUMENTATION	18A
															1	624	10000	LS		MOBILIZATION	



**LANDSCAPE & MATERIALS LEGEND**

- LIMITS OF CONSTRUCTION
- TRAIL CENTERLINE
- ASPHALT TRAIL - SEE PLAN & PROFILE SHEETS
- ITEM 659 - ODOT CLASS 1 SEEDED LAWN MIX; SEE LANDSCAPING GENERAL NOTES FOR SEED MIX
- ITEM 659 - ODOT CLASS 5B NATIVE WILDFLOWER AND GRASS SEED MIX; SEE LANDSCAPING GENERAL NOTES FOR SPECIES
- ITEM 661 - DECIDUOUS SHADE TREE
- ITEM 661 - FLOWERING/ UNDERSTORY TREE
- ITEM 661 - CONIFEROUS TREES
- EXISTING TREES - DO NOT DISTURB

**FUTURE AMENITIES LEGEND - N.I.C.**

- A1) TRAILHEAD/ DIRECTIONAL SIGNAGE (BY OTHERS)
- A2) INTERPRETIVE SIGNAGE / INTEREST POINT (BY OTHERS)
- A3) REST / SEATING AREA WITH POTENTIAL SHADE STRUCTURE (BY OTHERS)

**CODED NOTES**

- 1) PROPOSED TRAIL ALIGNMENT; SEE PLAN & PROFILE SHEETS
- 2) APPROXIMATE LIMITS OF PROPOSED GRADING; CONFIRM WITH GRADING PLANS FOR LIMITS OF DISTURBANCE. REFER TO TREE PRESERVATION AND PROTECTION NOTES ON L100.
- 3) EXTEND SEEDING TO LIMITS OF DISTURBANCE

PLANT SCHEDULE - TO BE SELECTED FROM						
KEY	QTY.	DESCRIPTION	COMMON NAME	SIZE	COND.	NOTES
<b>DECIDUOUS SHADE TREES</b>						
AG	2	AESCULUS GLABRA	OHIO BUCKEYE	2 1/2"	B&B	SPECIMEN QUALITY, SINGLE TRUNK, CENTRAL LEADER, LIMB UP TO 5'
CS	1	CATALPA SPECIOSA	NORTHERN CATALPA	2 1/2"	B&B	SPECIMEN QUALITY, SINGLE TRUNK, CENTRAL LEADER, LIMB UP TO 5'
<b>FLOWERING/ UNDERSTORY TREES</b>						
AL	2	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	2"	B&B	SPECIMEN QUALITY, CLUMP FORM, 5 CANES MIN.
AT	1	ASIMINA TRILOBA	PAWPAW	2"	B&B	SPECIMEN QUALITY, SINGLE TRUNK, CENTRAL LEADER, LIMB UP TO 4'
CC	3	CERCIS CANADENSIS	EASTERN REDBUD	2"	B&B	SPECIMEN QUALITY, SINGLE TRUNK, CENTRAL LEADER, LIMB UP TO 4'
CF	1	CORNUS FLORIDA	FLOWERING DOGWOOD	2"	B&B	SPECIMEN QUALITY, SINGLE TRUNK, CENTRAL LEADER, LIMB UP TO 4'
<b>CONIFEROUS TREES</b>						
PS	4	PINUS STROBUS	EASTERN WHITE PINE	8' HT.	B&B	SPECIMEN QUALITY, CENTRAL LEADER

**LANDSCAPE AND MATERIALS PLAN - LAKEVIEW DRIVE**  
STA. 9 + 78.36 TO STA. 15 + 00.00

DESIGN AGENCY  
**KZFJ-SIGN**  
 Designing Better Futures  
 700 Broadway Street  
 Cincinnati, OH 45202-6010  
 TEL 513 621 6211  
 FAX 513 621 6530

DESIGNER  
**JAM**

REVIEWER  
**ADK 12/03/2024**

PROJECT ID  
**117016**

SHEET TOTAL  
**249E 369**

**ITEM SPECIAL - STRUCTURE, MISC.: SINGLE SPAN 100'X14'-4" PREFABRICATED PEDESTRIAN TRUSS BRIDGE (SELF-WEATHERING STEEL)**

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:  
EXJ-2-81 07/15/22

**1.0 GENERAL**

- A. THESE SPECIFICATIONS ARE FOR A FULLY ENGINEERED CLEAR SPAN BRIDGE OF WELDED STEEL CONSTRUCTION AND SHALL BE REGARDED AS MINIMUM STANDARDS FOR DESIGN AND CONSTRUCTION.
- B. THE BRIDGE MANUFACTURER SHALL HAVE BEEN IN THE BUSINESS OF DESIGN AND FABRICATION OF BRIDGES FOR A MINIMUM OF FIVE YEARS AND PROVIDE A LIST OF FIVE SUCCESSFUL BRIDGE PROJECTS, OF SIMILAR CONSTRUCTION, EACH OF WHICH HAS BEEN IN SERVICE A LEAST FIVE YEARS.
- C. THE BRIDGE MANUFACTURER SHALL BE THE DESIGNER AND FABRICATOR OF THE BRIDGE AND SHALL NOT ASSIGN, SUBLET, OR SUBCONTRACT ANY PART OF THE BRIDGE FABRICATION. TWO REGISTERED PROFESSIONAL ENGINEERS, CURRENTLY LICENSED TO PRACTICE IN THE STATE OF OHIO, SHALL CERTIFY THE BRIDGE DESIGN AND FABRICATION.
- D. THE CONTRACTOR SHALL ONLY UTILIZE A BRIDGE MANUFACTURER ON THE ODOT APPROVED LIST PRIOR TO BID. ALL FABRICATION SHALL BE DONE AT AN ODOT TEST LEVEL 6 CERTIFIED SHOP.

**1.1 DIMENSIONS**

- A. WIDTH: OUT/OUT DECK WIDTH OF BRIDGE SHALL BE 14 FEET, 4 INCHES.
- B. LENGTH: BRIDGE CENTER TO CENTER BEARING LENGTH IS TO BE 100 FEET, 0 INCHES
- C. MINIMUM VERTICAL CLEARANCE ABOVE BRIDGE DECK SHALL BE 8 FEET, 6 INCHES

**1.2 DESIGN SPECIFICATIONS**

- A. MATERIALS (UNLESS NOTED OTHERWISE):
- B. CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPER STRUCTURE)
- C. CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)
- D. REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI
- E. DECK PROTECTION METHOD
  - 1. EPOXY COATED REINFORCING STEEL
  - 2. 2 1/2" CONCRETE COVER
- F. MONOLITHIC WEARING SURFACE
 

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1" THICK.
- G. STRUCTURAL STEEL:
  - 1. HSS SECTIONS: ASTM A847 WEATHERING STEEL
  - 2. SHAPES & PLATES: ASTM A588 WEATHERING STEEL
  - 3. ROLL FORM: A606 WEATHERING STEEL
- H. STRUCTURAL BOLTS: ASTM F3125 GRADE A525 U.N.O TYPE 3 (SELF WEATHERING).
- I. RUB RAIL: NATURALLY DURABLE IPE (TABEUIA SPP LAPACHO GROUP). FEQ GRADE.
- J. FENCE: 2" VINYL COATED 9 GA. COLOR TO BE BLACK OR BROWN AS DETERMINED BY OWNER.
- K. BEARING DEVICES SHALL BE ELASTOMERIC.

**1.3 PILE DESIGN LOADS (ULTIMATE BEARING VALUE)**

- A. THE ULTIMATE BEARING VALUE IS 82 KIPS PER PILE FOR THE ABUTMENT PILES.

**1.4 ABUTMENT PILES**

- A. 20 - 12"Ø C.I.P. REINFORCED CONCRETE PILES
- B. 10 PILES INSTALLED VERTICAL
- C. 10 PILES INSTALLED BATTERED
- D. ESTIMATED PILE LENGTH =
  - 1. 40 FEET PER PILE (REAR ABUTMENT)
  - 2. 35 FEET PER PILE (FORWARD ABUTMENT)
- E. ORDER LENGTH =
  - 1. 45 FEET PER PILE (REAR ABUTMENT)
  - 2. 40 FEET PER PILE (FORWARD ABUTMENT)
  - 3. TOTAL LENGTH = 850 FEET
- F. DYNAMIC LOAD TESTING ITEM 523
- G. PILE WALL THICKNESS = 0.25 INCH

**1.5 DESIGN LOAD**

- A. BRIDGE DESIGN IS BASED ON LOAD COMBINATIONS IN ACCORDANCE WITH AASHTO OF THE FOLLOWING LOADS
  - 4. BRIDGE DEAD LOAD.
  - 5. UNIFORM PEDESTRIAN LIVE LOAD OF 90 PSF.
  - 6. VEHICLE LIVE LOAD: H-15 TRUCK (30,000 LBS).
  - 7. WIND LOADING PER LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS. 1ST EDITION, 2015 SECTION 3.8.
    - a. DESIGN WIND SPEED: 115 MPH
    - b. SERVICE WIND SPEED: 76 MPH
    - c. EXPOSURE CATEGORY: C
- B. BRIDGE TO BE BUILT TO THE REQUIREMENTS OF AASHTO/AWS BRIDGE WELDING CODE D1.5
- C. ALL SHOP WELDING SHALL USE THE GAS METAL ARC WELDING OR FLUX CORED ARC WELDING PROCESS.
- D. FINISH: ALL EXPOSED SURFACES OF WEATHERING STEEL TO BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATIONS NO. 7. SSPC-SP7 BRUSH-OFF BLAST CLEANING. EXPOSED SURFACES OF STEEL SHALL BE DEFINED AS THOSE SURFACES SEEN FROM THE DECK OR FROM THE OUTSIDE OF THE STRUCTURE. FLOOR BEAMS, BRACE DIAGONALS AND INSIDE OF SIDE DAM WILL NOT BE BLAST CLEANED.
- E. ALL BOLTED CONNECTIONS ARE CONSIDERED TO BE PRETENSIONED OR SLIP-CRITICAL CONNECTIONS. ALL BOLTS ARE TO BE PRETENSIONED PER THE REQUIREMENTS OF SECTION 8.2 OF THE SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS BY RCSC.
- F. ALL STRUCTURAL BOLTS, NUTS AND WASHERS SHALL BE FURNISHED IN THE AMOUNT OF 5% OR QUANTITY OF 10 (WHICHEVER IS GREATER) IN EXCESS OF THE NUMBER REQUIRED FOR EACH SIZE AND LENGTH.
- G. IF BOLTS DO NOT SMOOTHLY ENGAGE UP TO SNUG-TIGHT, THERE MAY BE AN OBSTRUCTION WITHIN THE THREADS. THE BOLTS SHOULD BE REMOVED, THE THREADS ON THE BOLTS AND NUT CLEANED AND RETAPPED IF NECESSARY TO ALLOW SMOOTH INSTALLATION OF THE BOLT. ( IF APPLICABLE).
- H. MAINTENANCE NOTE: CONTECH ENGINEERED SOLUTIONS RECOMMENDS NOT APPLYING DE-ICING OR DUST PROHIBITIVE CHEMICALS OR SALTS TO ANY PART OF THE BRIDGE STRUCTURE. IF DE-ICING OR DUST PROHIBITIVE CHEMICALS OR SALTS ARE APPLIED TO ANY PART OF THE BRIDGE STRUCTURE, CONTECH ENGINEERED SOLUTIONS WILL NOT BE RESPONSIBLE FOR ANY RESULTANT ACCELERATED CORROSION.
- I. SHOP SPLICES:
  - 1. ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS.

- 2. ALL HORIZONTAL RAIL COMPONENT SPLICES TO BE LOCATED AT THE CENTERLINE OF VERTICALS, EACH END WELDED TO THE VERTICAL AND SEAL WELDED TOGETHER. SEAL WELDS TO BE GROUND SMOOTH AND VISUAL INSPECTION ONLY REQUIRED.

**1.6 DECK & CONCRETE NOTES**

- A. GALVANIZED FORM DECK SHALL BE 3", 18 GA. (MINIMUM), G90 MINIMUM COATING. FORM DECK SHALL SPAN A MINIMUM OF 2 SPANS AND SHALL BE TIGHT FITTING WITH A GAP NO LONGER THAN 1/4" IN ANY DIRECTION. FORM DECK WILL BE SHOP ATTACHED TO FLOOR BEAMS WITH #12-24 X 1-1/4" SELF DRILLING FASTENERS WITH 1" O.D. WASHERS, 1" x 3/16" POWER ACTUATED FASTENERS, OR 5/8" PUDDLE WELDS. FORM DECK OVER SPLICE LOCATIONS WILL BE SHIPPED LOOSE AND FIELD ATTACHED AS SPECIFIED FOR SHOP ATTACHMENTS. BOTTOM SIDE OF FORM DECK SHALL NOT BE PAINTED.
- B. BEARING DEVICES SHALL BE ELASTOMERIC BEARING IN ACCORDANCE WITH ODOT SPECIFICATION SECTION 516.
- C. PREFABRICATED BRIDGE MANUFACTURER SHALL PROVIDE RAILING ON THE BRIDGE THAT MEETS THE REQUIREMENTS OF MULTIMODAL DESIGN GUIDE (FIGURES 5-6) AND AASHTO LRFD 13.10.
- D. CONTECH ENGINEERED SOLUTIONS IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE CONCRETE DECK. ALL ISSUES RELATED TO MATERIAL SUPPLY, TESTING AND INSTALLATION IS OUTSIDE OF CONTECH ENGINEERED SOLUTIONS RESPONSIBILITY.
- E. CONCRETE MIX DESIGN, MATERIALS, MIXING, PLACEMENT, FINISHING AND TESTING SHALL BE IN ACCORDANCE WITH THE PROJECT CONTRACT DOCUMENTS.
- F. MINIMUM MATERIAL REQUIREMENTS:
  - 1. CONCRETE:
    - a. COMPRESSIVE STRENGTH  $f_c = 4,500$  PSI
    - b. AIR CONTENT OF 5% ± 1%
    - c. UNIT WEIGHT OF 145 PCF MAX
  - 2. REINFORCING STEEL:
    - a. ASTM A615 OR AASHTO M31 GRADE 60
- G. THE USE OF EPOXY COATED REBAR, GALVANIZED REBAR, DECK SEALERS OR ANY OTHER FORM OF PROTECTION OF THE REBAR SHALL BE DONE AS NEEDED FOR LOCAL CONDITIONS OR AS REQUIRED PER THE PROJECT CONTRACT DOCUMENTS AND IS NOT THE RESPONSIBILITY OF CONTECH ENGINEERED SOLUTIONS.
- H. THE CONTRACTOR MUST EXERCISE CARE TO CONTROL TRAFFIC AND STORAGE OF MATERIALS ON THE FORM DECK BEFORE CONCRETE IS PLACED.
- I. LONGITUDINAL BARS MAY BE SPLICED IF REQUIRED. SPLICES SHALL BE STAGGERED EVERY OTHER LONGITUDINAL BAR. SPLICES SHALL BE LOCATED AT OR NEAR THE 1/3 POINT OF THE BAY SPANS FROM FLOOR BEAM TO FLOOR BEAM. REQUIRED SPLICE LENGTHS ARE AS FOLLOWS:
 

BAR SIZE	HOOK LENGTH	SPLICE LENGTH
#4	6"	27"
#5	7"	35"
#6	8"	41"
#7	10"	52"
- J. THE USE OF GROOVED CONTROL JOINTS SHALL BE PUT IN PER THE PROJECT CONTRACT DOCUMENTS OR AT THE DISCRETION OF THE ENGINEER AND OWNER. IF CONTRACTOR JOINTS ARE USED, THEY SHALL BE PLACED OVER THE CENTERLINE OF THE FLOOR BEAMS AS NEEDED.
- K. DECK PROTECTION:
  - 1. CLASS QC1 CONCRETE (ABUTMENT).
  - 2. EPOXY COATED REINFORCING STEEL.
  - 3. 2-1/2" CONCRETE COVER.
- L. THE CONCRETE DECK SHALL BE BROOM FINISHED.

**1.7 QUALITY ASSURANCE NOTES**

- A. ALL WELDS SHALL BE VISUALLY INSPECTED I.A.W. AWS SPECIFICATION BY AN AWS CERTIFIED WELDING INSPECTOR(CWI).

**1.8 FABRICATION & QUALITY CONTROL**

- A. BRIDGE FABRICATOR SHALL BE CERTIFIED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION TO HAVE THE PERSONNEL, ORGANIZATION, EXPERIENCE, CAPABILITY, AND COMMITMENT TO PRODUCE FABRICATED STRUCTURAL STEEL FOR MAJOR STEEL BRIDGE STRUCTURES WITH SOPHISTICATED PAINT ENDORSEMENT AS SET FORTH IN THE AISC CERTIFICATION PROGRAM. FABRICATOR SHALL BE AN ODOT LEVEL 6 QUALIFIED FABRICATOR AS PER ODOT CMS 513.
- B. WORKMANSHIP, FABRICATION, AND SHOP DESIGN SHALL BE IN ACCORDANCE WITH AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS SPECIFICATIONS (AASHTO).
- C. A MEMBER OF THE STEEL DECK INSTITUTE SHALL MANUFACTURE THE TRAIL FLOOR DECK OR HAVE THEIR DECK PROPERTIES CERTIFIED BY THE STEEL DECK INSTITUTE.

**1.9 DELIVERY & ERECTION**

- A. BRIDGES WILL BE DELIVERED BY TRUCK TO A LOCATION NEAREST TO THE SITE ACCESSIBLE BY ROADS. HAULING PERMITS AND FREIGHT CHARGES ARE THE RESPONSIBILITY OF THE MANUFACTURER OR CONTRACTOR.
- B. THE MANUFACTURER SHALL NOTIFY THE CUSTOMER IN ADVANCE OF THE EXPECTED ARRIVAL TIME. THE COST OF THE TRANSPORTATION OF THE PREFABRICATED BRIDGE TO THE SITE AND ANY COST RELATED TO THE ESCORTED SERVICES SHALL BE INCLUDED.
- C. THE MANUFACTURER SHOULD ADVISE THE CONTRACTOR OF THE ACTUAL LIFTING WEIGHTS, ATTACHMENT POINTS AND ALL NECESSARY INFORMATION TO INSTALL THE BRIDGE. UNLOADING, SPLICING, BOLTING, AND PROPER LIFTING EQUIPMENT IS THE RESPONSIBILITY OF CONTRACTOR.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE ANCHOR BOLTS IN ACCORDANCE WITH THE MANUFACTURE'S ANCHOR BOLT SPACING DIMENSIONS.
- E. ALL GROUNDING AND LIGHTING PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- F. THE SHOP DRAWINGS FOR DESIGN AND CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH ODOT SPECIFICATION SECTION 501.04.
- G. CERTIFIED TEST REPORTS FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH ODOT SPECIFICATION SECTION 501.06
- H. BEARINGS AND BEARING PLATES, ANCHOR BOLTS AND EXPANSION JOINTS SHALL BE FURNISHED BY THE BRIDGE MANUFACTURER AND INCORPORATED INTO ABUTMENT AND BACKWALL BY THE CONTRACTOR.

**1.10 SUCCESSFUL BIDDER**

- A. SUCCESSFUL BIDDER TO FURNISH COMPLETE SETS OF SHOP DRAWINGS AND CALCULATIONS FOR SUPERSTRUCTURE WITHIN 6-8 WEEKS AFTER THE AWARD OF THE CONTRACTOR.
- B. ERECTION PLANS AND ANY ASSEMBLY MANUAL SHOULD ACCOMPANY SHOP DRAWINGS.
- C. TRUSS BRIDGE SUPPLIER TO PROVIDE TECHNICAL ASSISTANCE (A REPRESENTATIVE AT THE JOBSITE) WHILE TRUSSES ARE BEING ERECTED. CONTRACTOR TO MAKE ARRANGEMENTS IN ADVANCE WITH THE TRUSS SUPPLIER.

SFN	NONE
DESIGNER AGENCY	
DESIGNER/CHECKER	AP LI
REVIEWER	AE/JC 03/27/24
PROJECT ID	117016
SUBSET	TOTAL 2 12
SHEET	TOTAL 289 369

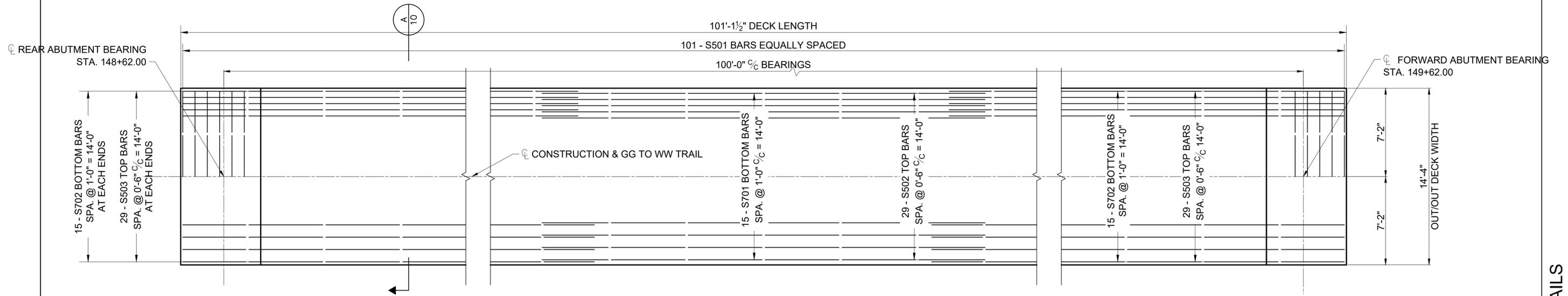
RIBWAY ENGINEERING GROUP, INC.  
300 E. BROAD ST.  
SUITE 500  
COLUMBUS, OHIO 43215  
PH. NO. (614) 221-6009  
FAX NO. (614) 221-9089

BRIDGE ESTIMATED QUANTITIES										
ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	REAR ABUT.	FWD. ABUT.	ENTIRE PROJECT	GENERAL	SEE SHEET NO.	
503	49	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN		11	38			2/10	
505	1	LS	PILE DRIVING EQUIPMENT MOBILIZATION				1			
507	750	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		350	400				
507	850	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		400	450				
509	14001	LB	EPOXY COATED REINFORCING STEEL	8049	2976	2976				
511	34	CY	CLASS QC2 CONCRETE, BRIDGE DECK	34						
511	74	CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING		37	37				
512	26	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)		13	13				
516	28.6	FT	STRUCTURAL STEEL JOINT AND ELASTOMERIC COMPRESSION SEAL		14.3	14.3				
518	86	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		43	43				
518	71	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		35.5	35.5				
525	2	EA	DYNAMIC LOAD TESTING						2	
518	16	FT	8" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS		8	8				
530	1	LS	SPECIAL - STRUCTURES (SINGLE SPAN 100'-0" C/C BRG PREFABRICATED PEDESTRIAN TRUSS BRIDGE) SELF-WEATHERING STEEL	1						
601	252	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER		99	153				
611	2	EACH	PRECAST REINFORCED CONCRETE OUTLET				2			
625	1	EACH	STRUCTURE GROUNDING SYSTEM				1			

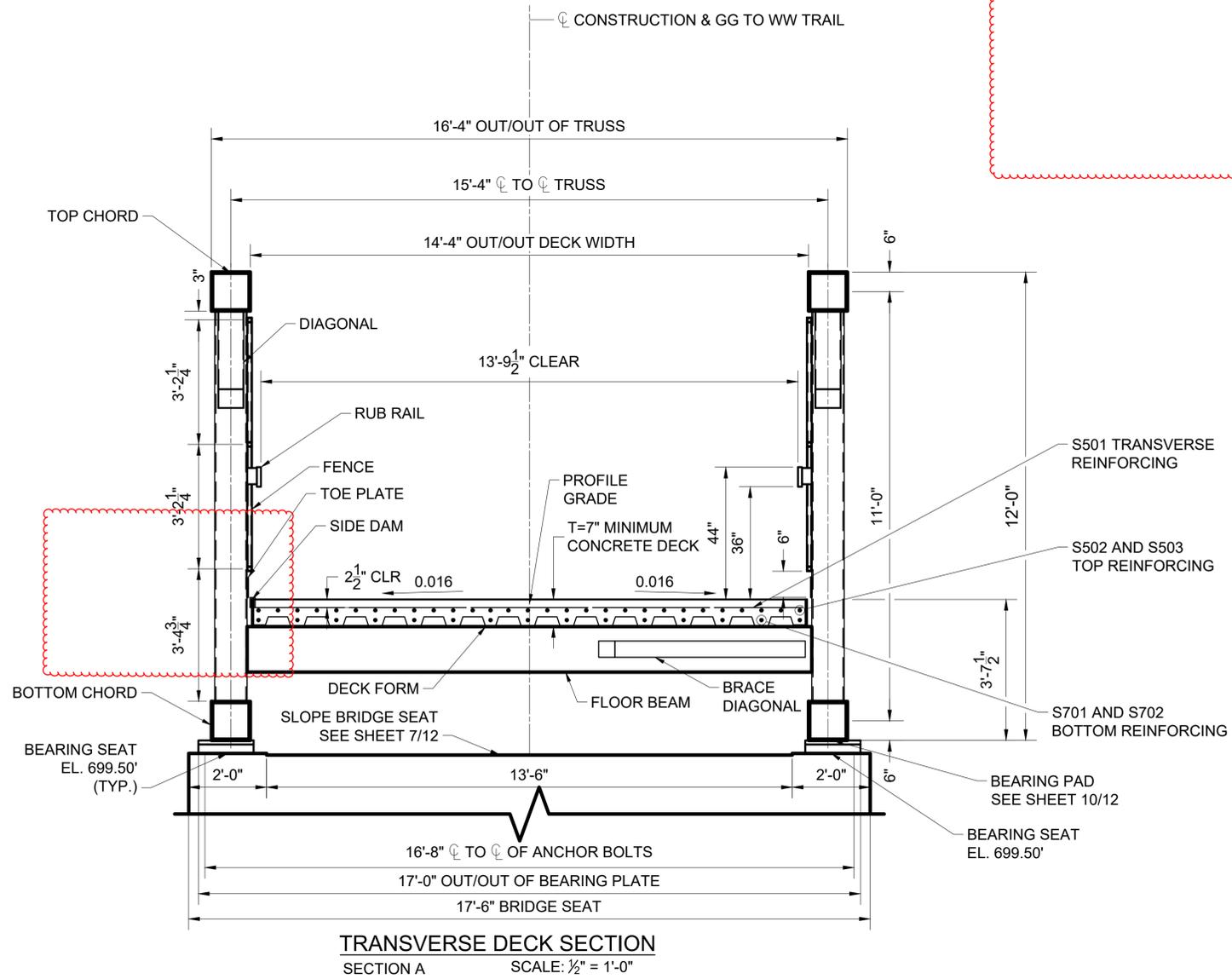
ALL QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY SHEET

BRIDGE ESTIMATED QUANTITIES  
CONTINENTAL PEDESTRIAN TRUSS BRIDGE  
OVER UNNAMED CREEK

SFN	NONE
DESIGN AGENCY	
<small>RIBWAY ENGINEERING GROUP, INC. 300 E. BROAD ST. SUITE 500 COLUMBUS, OHIO 43215 PH. NO. (614) 221-6009 FAX NO. (614) 221-9089</small>	
DESIGNER	CHECKER
AP	LI
REVIEWER	
AE/JC	03/27/24
PROJECT ID	117016
SUBSET	TOTAL
6	12
SHEET	TOTAL
293	369



SLAB PLAN  
 SCALE: 1/4" = 1'-0"



	FINISHED TOP OF DECK ELEVATIONS*				
	CENTERLINE BRG. REAR ABUT.	0.25L	0.50L	0.75L	CENTERLINE BRG. FWD. ABUT.
STATION	148+62.00	148+87.00	149+01.00	149+26.00	149+62.00
LEFT EDGE OF DECK	702.89	702.89	702.89	702.89	702.89
PROFILE GRADE	703.00	703	703	703	703.00
RIGHT EDGE OF DECK	702.89	702.89	702.89	702.89	702.89

NOTES:

- THE FINISHED DECK ELEVATIONS ARE NOT ADJUSTED FOR DEFLECTION DUE TO DEAD LOAD OF CONCRETE DECK AND STEEL. THE PREFABRICATED BRIDGE DESIGNER MUST PROVIDE SCREED ELEVATIONS THAT WILL RESULT IN FINISHED DECK ELEVATIONS SHOWN ABOVE.
- FIELD BEND TRANSVERSE BARS AS NECESSARY TO FIT THE CROWN OF THE DECK.
- FRACTURE CRITICAL MEMBERS: ALL ITEMS DESIGNATED FCM INCLUDING:
  - WELDED RIGID CONNECTIONS OF FLOOR BEAM CONNECTIONS
  - WELDED FLANGE ATTACHMENTS.
  - INTERSECTING WELDS AT DIAPHRAGMS
 ARE FRACTURE CRITICAL MEMBERS AND COMPONENTS AND SHALL BE FURNISHED AND FABRICATED ACCORDING TO THE REQUIREMENTS OF SECTION 12 OF THE AASHTO/AWS BRIDGE WELDING CODE D1.5.
- PAYMENT FOR THE DECK FORMS ARE INCLUDED WITH ITEM 511 - CLASS QC2 CONCRETE BRIDGE DECK.
- FENCING ON TRUSS PAID WITH ITEM 530 - SPECIAL - STRUCTURE, MISC.

SFN

NONE

DESIGN AGENCY



RIBWAY ENGINEERING GROUP, INC.  
 300 E. BROAD ST.  
 SUITE 500  
 COLUMBUS, OHIO 43215  
 PH. NO. (614) 221-6009  
 FAX NO. (614) 221-9089

DESIGNER/CHECKER

AP LI

REVIEWER

AE/JC 03/27/24

PROJECT ID

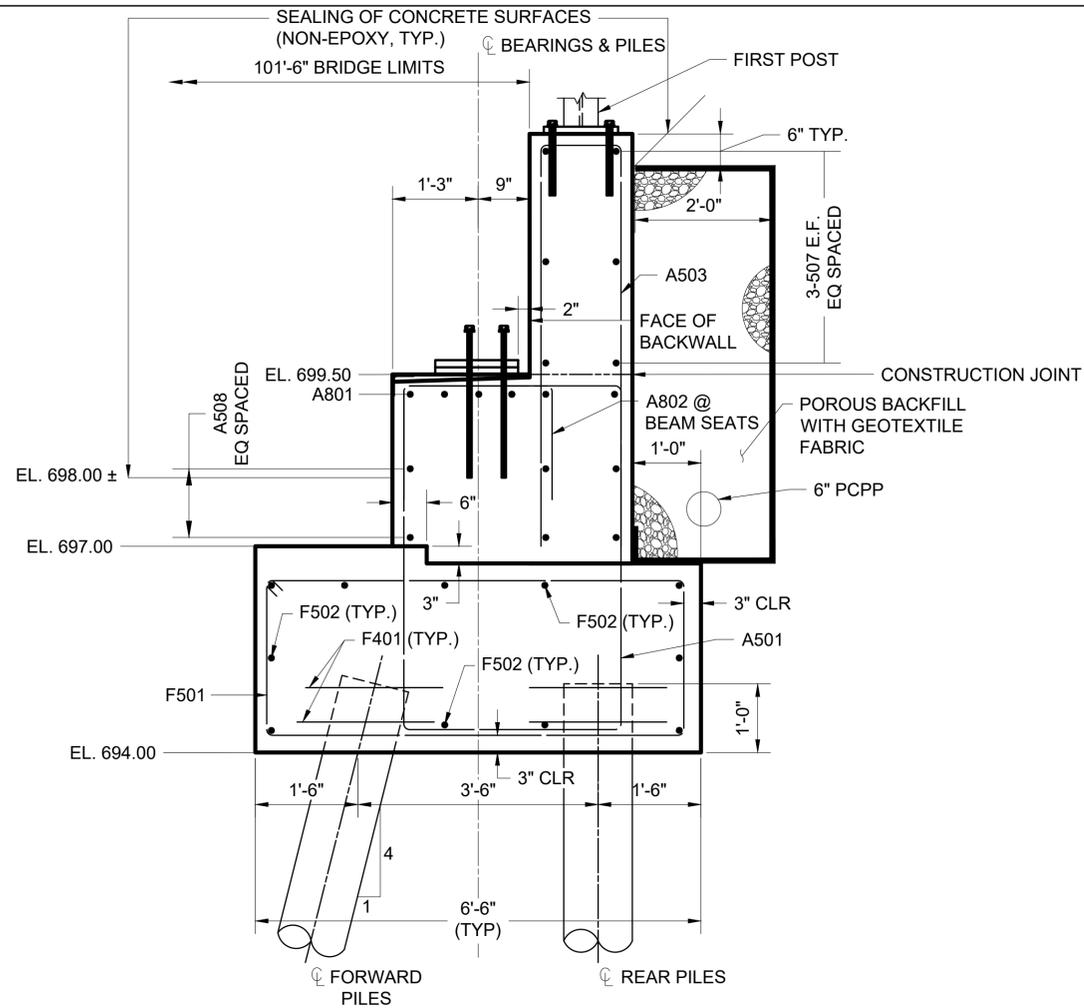
117016

SUBSET TOTAL

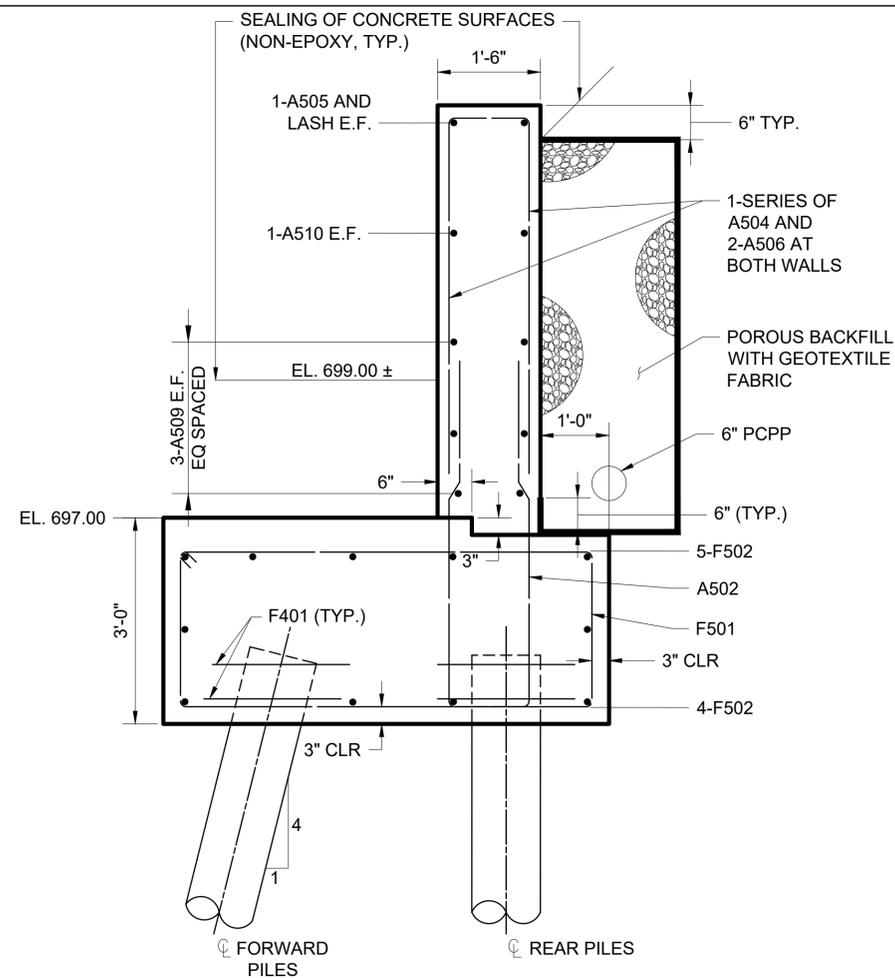
9 12

SHEET TOTAL

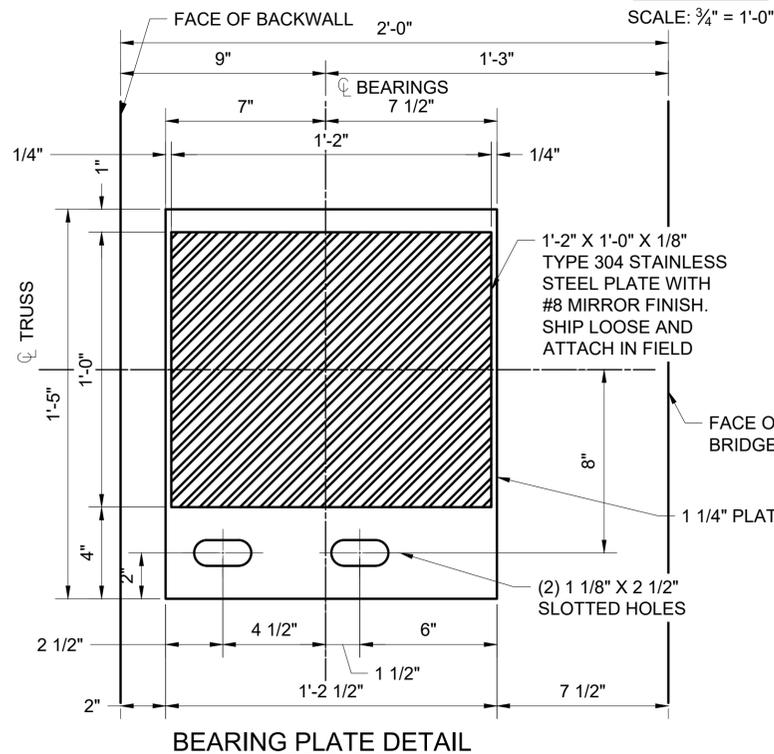
296 369



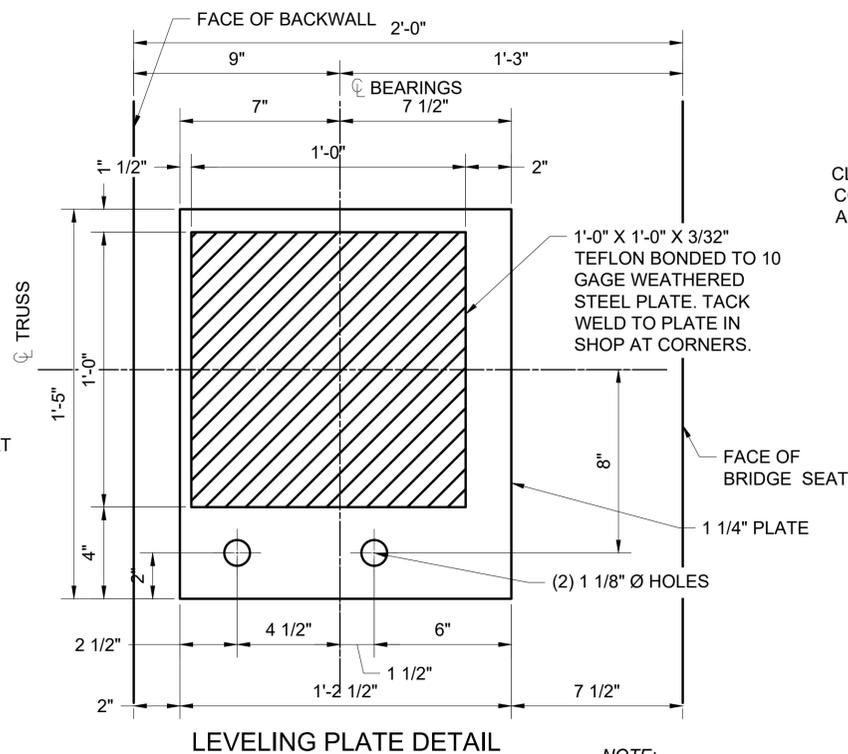
**SECTION A**  
SCALE: 3/4" = 1'-0"



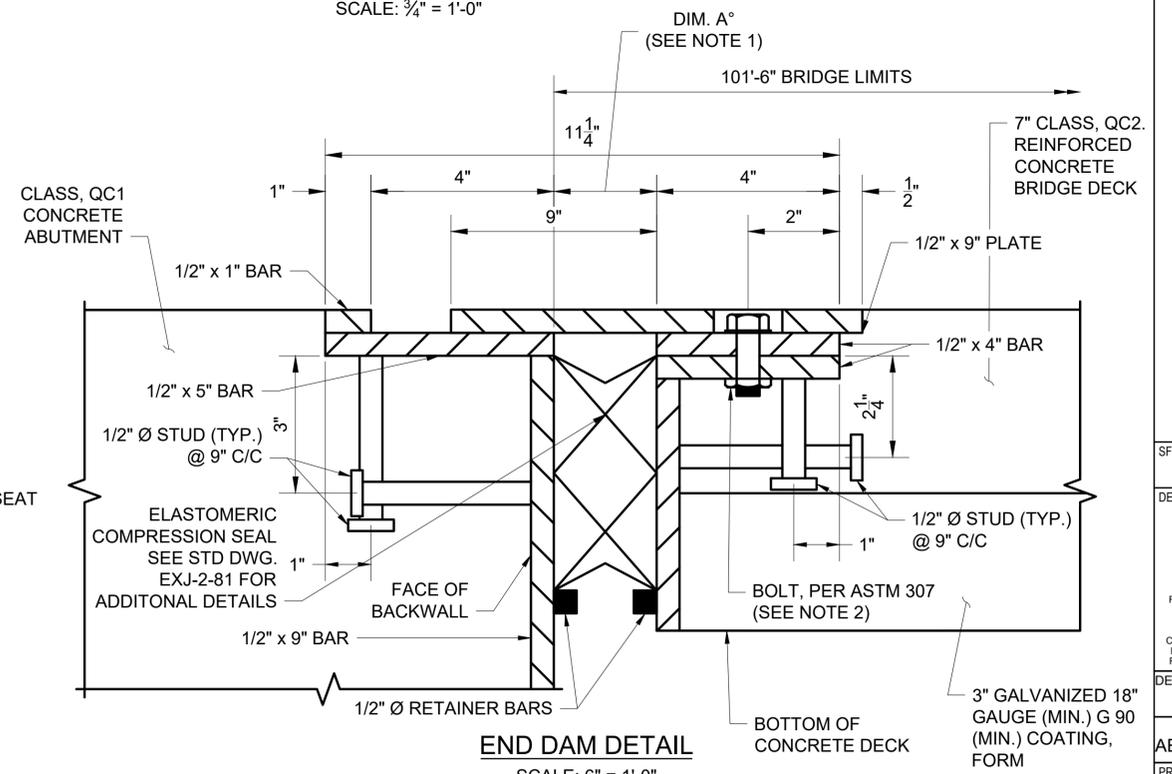
**SECTION B**  
SCALE: 3/4" = 1'-0"



SCALE: 3" = 1'-0"



SCALE: 3" = 1'-0"

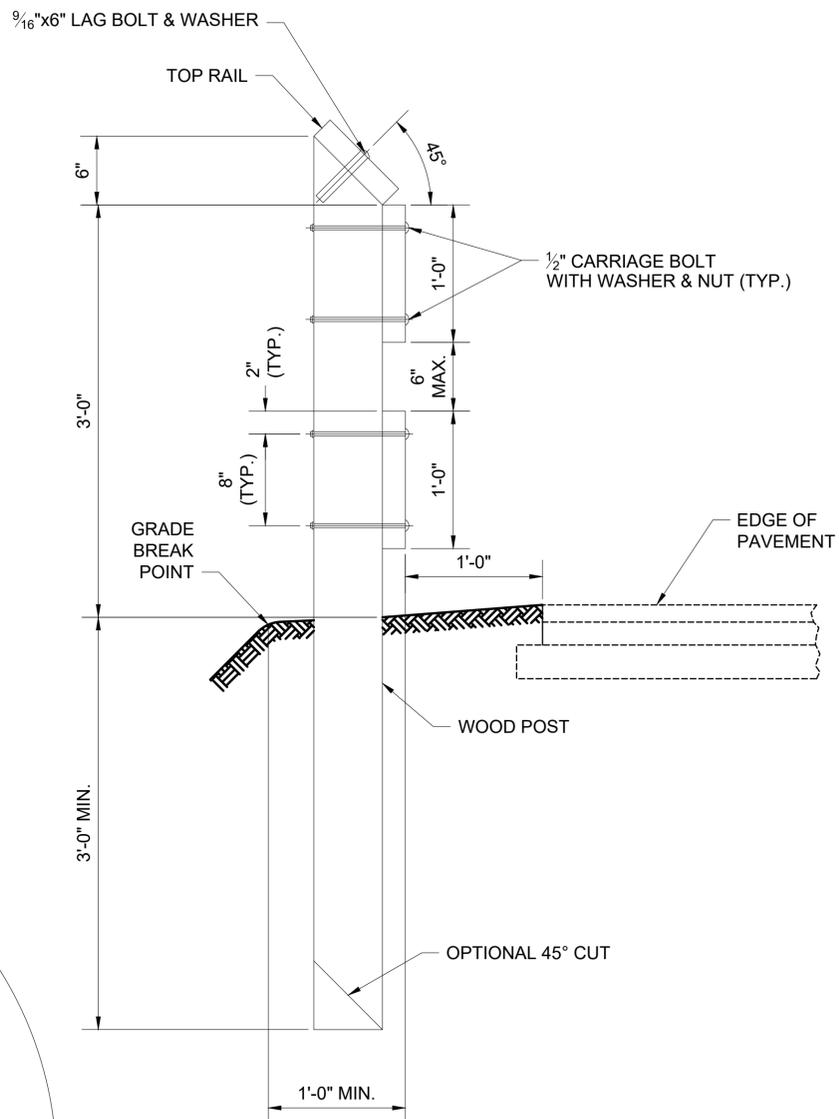
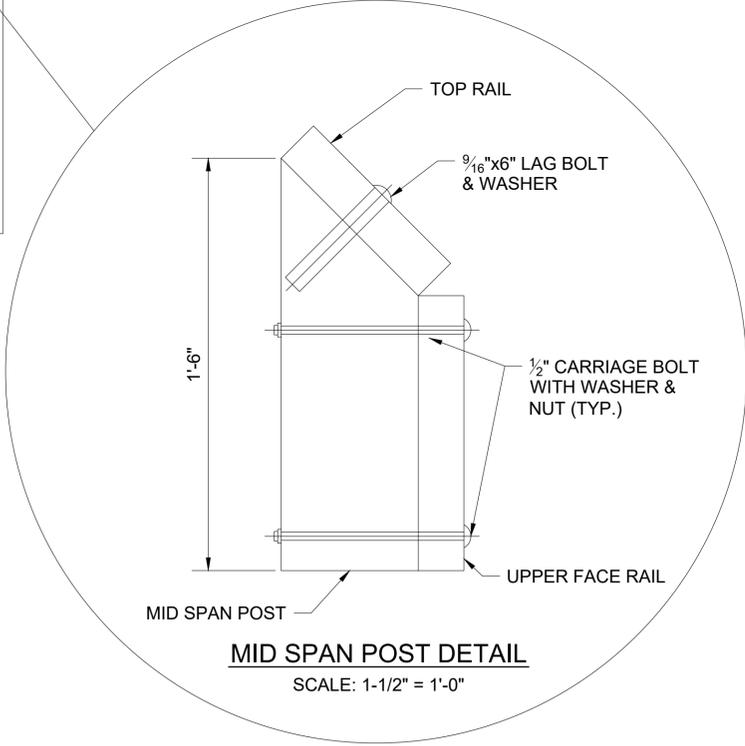
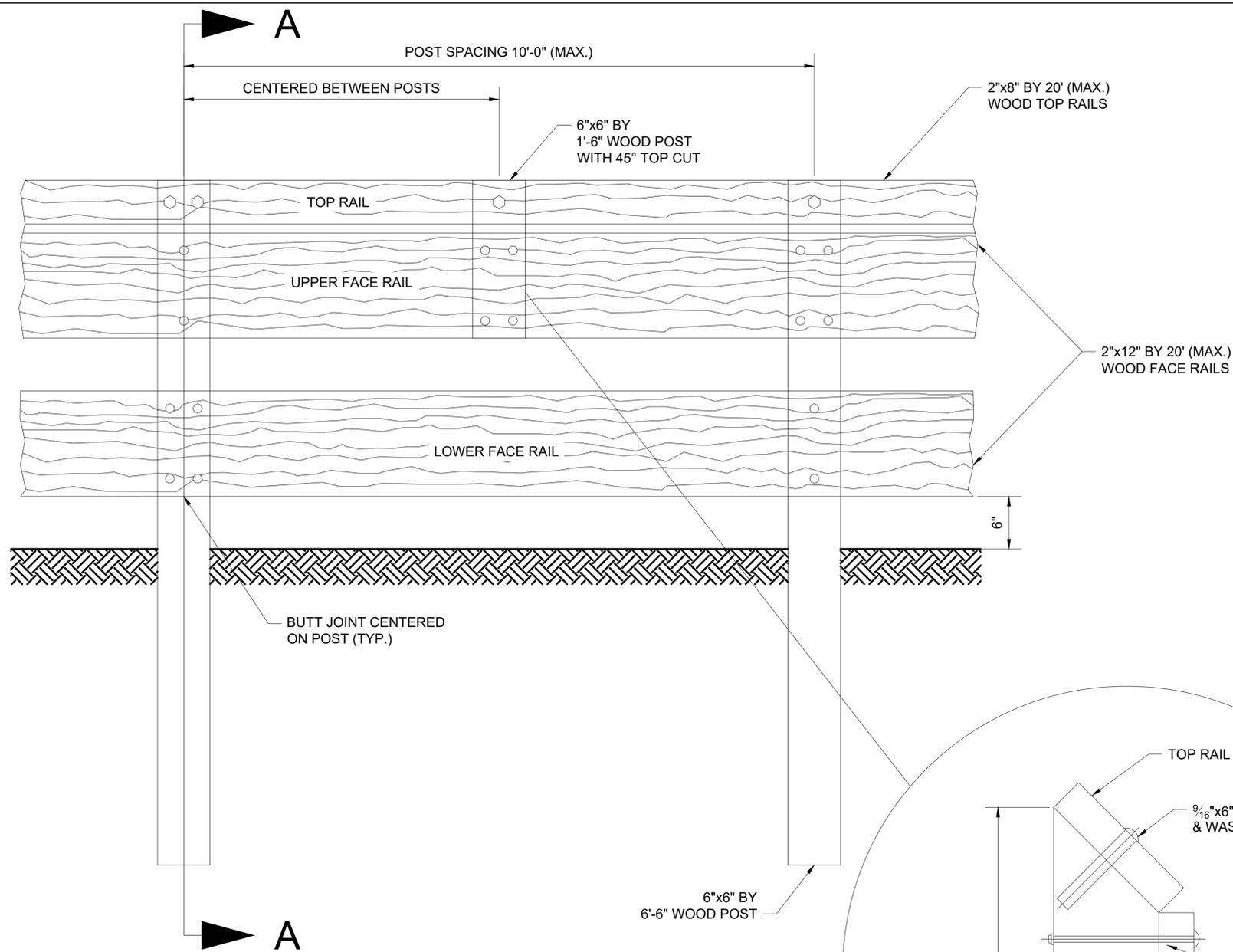


**END DAM DETAIL**  
SCALE: 6" = 1'-0"

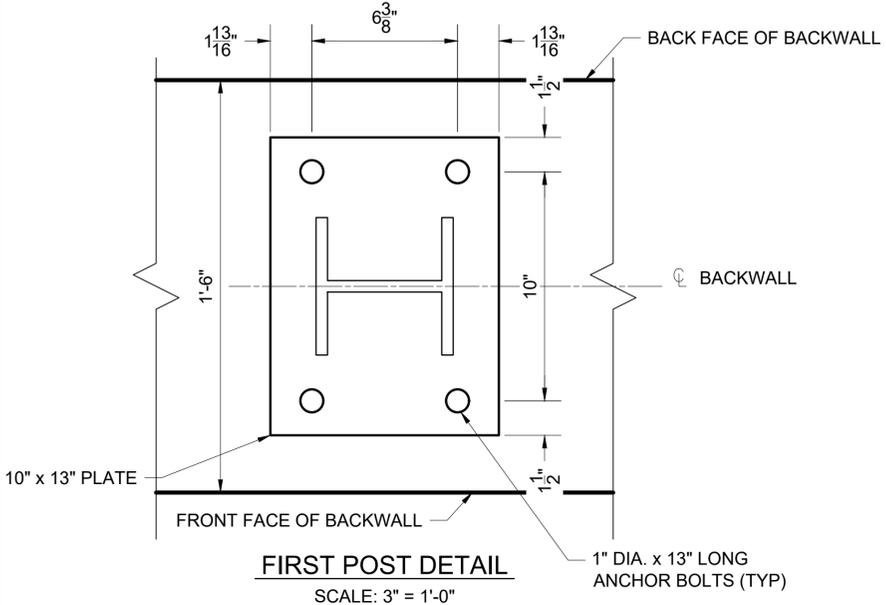
- NOTE:**
- PAYMENT FOR THE BEARING AND LEVELING PLATES ARE INCLUDED WITH THE PRICE OF PAY ITEM 530.
  - PROVIDE TEFLON & STAINLESS STEEL PADS AT THE EXPANSION END AND STEEL ON STEEL FOR THE FIXED END.

- NOTE:**
- REFER TO STD DWG EXJ-2-81 FOR DIM. A.
  - 5/8" X 2-1/16" BOLTS, ASTM A307 WITH HEX NUTS AND WASHER GALVANIZED PER 711.02. DRILL 3/4" HOLES IN 1/2" X 4" BARS.
  - BRIDGE SEAT REINFORCEMENT, SETTING ANCHORS: ACCURATELY PLACE CONCRETE REINFORCEMENT IN THE VICINITY OF THE BRIDGE SEAT TO AVOID INTERFERENCE WITH THE DRILLING OF BEARING ANCHOR HOLES OR THE PRE-SETTING OF BEARING ANCHORS.

SFN	NONE
DESIGN AGENCY	
DESIGNER	AP
CHECKER	LI
REVIEWER	AE/JC 03/27/24
PROJECT ID	117016
SUBSET	TOTAL
10	12
SHEET	TOTAL
296A	369



SECTION A-A  
SCALE: 1-1/2" = 1'-0"



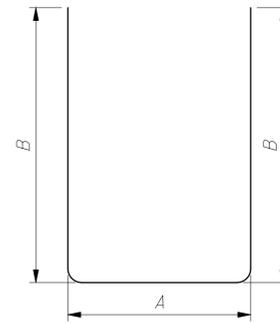
FIRST POST DETAIL  
SCALE: 3" = 1'-0"

NOTE:  
1. FIRST POSTS INCLUDED WITH PAYMENT FOR ITEM 607 - FENCE, MISC.; WOOD FENCE

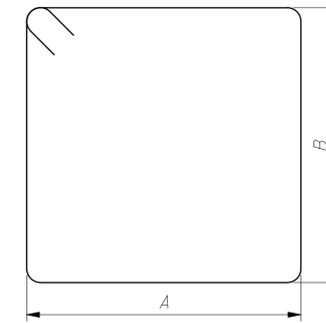
FENCE, MISC. WOOD FENCE

SFN		NONE	
DESIGN AGENCY			
RIBWAY ENGINEERING GROUP, INC. 300 E. BROAD ST. SUITE 500 COLUMBUS, OHIO 43215 PH. NO. (614) 221-6009 FAX NO. (614) 221-9089			
DESIGNER	CHECKER		
AP	LI		
REVIEWER			
AE/JC 03/27/24			
PROJECT ID			
117016			
SUBSET	TOTAL		
11	12		
SHEET	TOTAL		
297	369		

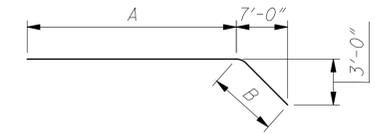
REINFORCEMENT SCHEDULE										
MARK	NUMBER	LENGTH FT.	WEIGHT LBS.	TYPE	DIMENSIONS					
					A	B	C	D	E	R
<b>DECK</b>										
S701	15	29'-4"	899	STR						
S702	30	40'-0"	2453	STR						
S501	101	14'-0"	1475	STR						
S502	29	26'-6"	802	STR						
S503	58	40'-0"	2420	STR						
<b>SUB-TOTAL</b>			8049							
<b>FORWARD ABUTMENT REINFORCING</b>										
F401	20	8'-5"	112	3	2'-0"	2'-0"				
F501	32	17'-0"	567	3	6'-0"	2'-3"				
F502	11	26'-8"	306	STR						
A501	20	16'-10"	351	3	3'-2"	5'-0"				
A502	10	12'-9"	133	2	1'-2"	5'-11"				
A503	20	14'-8"	306	2	1'-2"	5'-5"				
A504	18	9'-7"	180	2	A	1'-2"				
A505	4	11'-4"	47	19	6'-6"	4'-11"				
A506	4	12'-3"	51	2	1'-2"	5'-8"				
A507	6	17'-2"	107	STR						
A508	6	17'-2"	107	STR						
A509	16	11'-11"	183	STR						
A510	4	8'-11"	37	STR						
A511	4	6'-8"	28	19	2'-10"	3'-11"				
A801	6	21'-1"	338	2	2'-2"	17'-2"				
A802	8	5'-9"	123	2	2'-3"	2'-0"				
<b>SUB-TOTAL</b>			2976							
<b>REAR ABUTMENT REINFORCING</b>										
F401	20	8'-5"	112	3	2'-0"	2'-0"				
F501	32	17'-0"	567	3	6'-0"	2'-3"				
F502	11	26'-8"	306	STR						
A501	20	16'-10"	351	3	3'-2"	5'-0"				
A502	10	12'-9"	133	2	1'-2"	5'-11"				
A503	20	14'-8"	306	2	1'-2"	5'-5"				
A504	18	9'-7"	180	2	A	1'-2"				
A505	4	11'-4"	47	19	6'-6"	4'-11"				
A506	4	12'-3"	51	2	1'-2"	5'-8"				
A507	6	17'-2"	107	STR						
A508	6	17'-2"	107	STR						
A509	16	11'-11"	183	STR						
A510	4	8'-11"	37	STR						
A511	4	6'-8"	28	19	2'-10"	3'-11"				
A801	6	21'-1"	338	STR	2'-2"	17'-2"				
A802	8	5'-9"	123	2	2'-3"	2'-0"				
<b>SUB-TOTAL</b>			2976							
<b>TOTAL WEIGHT</b>			14001							



TYPE-2



TYPE-3



TYPE-19

NOTE:  
DIM. A. FOUR(4) SERIES OF 9 BARS VARIES FROM 3'-0" TO 5'-8", INCR. 4" 1/4"

SFN	NONE
DESIGN AGENCY	
DESIGNER	AP
CHECKER	LI
REVIEWER	AE/JC 03/27/24
PROJECT ID	117016
SUBSET	12
TOTAL	12
SHEET	298
TOTAL	369