



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
RMA70022

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
KRISTA FERRELL 304-558-2596

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

WV STATE RAIL AUTHORITY
 (DBA) SOUTH BRANCH VALLEY
 RAILROAD
 120 WATER PLANT DRIVE
 MOOREFIELD, WV
 26836 304-538-2305

DATE PRINTED 12/28/2006	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 01/25/2007	BID OPENING TIME			01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		160-52		
BRIDGE TIES, AND TRACK REQUEST FOR QUOTATION THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA STATE RAIL AUTHORITY, IS SOLICITING BIDS TO PROVIDE THE AGENCY WITH THE INSTALLATION OF BRIDGE TIES AND RAIL ON A RAILROAD BRIDGE LOCATED IN ELKINS, WEST VIRGINIA AND TWO ADDITIONAL TRACKS FROM THE NORTH END OF THE BRIDGE TO THE FRONT OF THE ELKINS DEPOT PER THE ATTACHED SPECIFICATIONS AND DRAWINGS. A MANDATORY PRE-BID MEETING WILL BE HELD ON TUESDAY, JANUARY 9, 2007 AT 1:00 PM AT THE ELKINS DEPOT IN ELKINS, WEST VIRGINIA. ALL VENDORS WISHING TO BID ON THIS PROJECT MUST ATTEND THIS MEETING. VENDORS FAILING TO ATTEND WILL BE DISQUALIFIED. NO ONE PERSON MAY REPRESENT MORE THAN ONE VENDOR. TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA PURCHASING DIVISION BY FAX AT 304-558-4115 OR VIA EMAIL AT KFERRELL@WVADMIN.GOV. QUESTIONS PRIOR TO THE MANDATORY PRE-BID INSPECTION MUST BE SUBMITTED TO THE BUYER BY JANUARY 5, 2007 AND WILL BE ADDRESSED AT THE PRE-BID MEETING. QUESTIONS CONCERNING THE ACTUAL SUBMISSION PROCESS						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this contract is automatically null and void, and is terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130



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<p>OF A VENDOR'S BID MAY BE SUBMITTED AT ANY TIME AND IN ANY FORMAT.</p> <p>EXHIBIT 5</p> <p>NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED BY JUNE 30, 2007. UNLESS OTHERWISE SPECIFIED, THE FULLY EXECUTED PURCHASE ORDER WILL BE CONSIDERED NOTICE TO PROCEED.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HERE IN.</p> <p>WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR XXXXXXXXXXXXX COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT)</p> <p>ARBITRATION: ANY REFERENCES MADE TO ARBITRATION OR INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAW) CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS PERTAINING TO THIS CONTRACT ARE HEREBY DELETED.</p> <p>WORKERS' COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL.</p> <p>ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT</p>						

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				DOMESTIC ALUMINUM, GLASS & STEEL IN PUBLIC WORKS PROJECTS IN ACCORDANCE WITH WEST VIRGINIA CODE 5-19-1 ET., SEQ., EVERY CONTRACT FOR CONSTRUCTION, RECONSTRUCTION, ALTERATION, REPAIR, IMPROVEMENT OR MAINTENANCE OF PUBLIC WORKS, WHERE THE COST IS MORE THAN \$50,000 AND, IN THE CASE OF STEEL ONLY, WHERE THE COST OF STEEL IS MORE THAN \$50,000 OR WHERE MORE THAN 10,000 POUNDS OF STEEL ARE REQUIRED, THE STATE WILL ACCEPT ONLY ALUMINUM GLASS, OR STEEL PRODUCTS PRODUCED IN THE UNITED STATES. IN ADDITION, ITEMS OF MACHINERY OR EQUIPMENT PURCHASED FOR USE AT THE SITE OF PUBLIC WORKS SHALL BE MADE OF DOMESTIC ALUMINUM, GLASS OR STEEL, UNLESS THE COST OF THE PRODUCT IS LESS THAN \$50,000 OR LESS THAN 10,000 POUNDS OF STEEL ARE USED IN PUBLIC WORKS PROJECTS. FOREIGN MADE ALUMINUM, GLASS OR STEEL PRODUCTS MAY BE ACCEPTED ONLY IF THE COST OF DOMESTIC PRODUCTS IS FOUND TO BE UNREASONABLE. SUCH COST IS UNREASONABLE IF IT IS 20% OR MORE HIGHER THAN THE BID PRICE FOR FOREIGN MADE PRODUCTS. IF THE DOMESTIC ALUMINUM, GLASS OR STEEL PRODUCTS TO BE SUPPLIED OR PRODUCED IN A "SUBSTANTIAL LABOR SURPLUS AREA", AS DEFINED BY THE UNITED STATES DEPARTMENT OF LABOR, FOREIGN PRODUCTS MAY BE SUPPLIED ONLY IF DOMESTIC PRODUCTS ARE 30% OR MORE HIGHER IN PRICE THAN THE FOREIGN MADE PRODUCTS. IF, PRIOR TO THE AWARD OF A CONTRACT UNDER THE ABOVE PROVISIONS, THE SPENDING OFFICER OF THE SPENDING UNIT DETERMINES THAT THERE EXISTS A BID FOR LIKE FOREIGN ALUMINUM, GLASS OR STEEL THAT IS REASONABLE AND LOWER THAN THE LOWEST BID DOMESTIC PRODUCTS, THE SPENDING OFFICE MAY REQUEST, IN WRITING, A REEVALUATION AND REDUCTION IN THE LOWEST BID FOR SUCH DOMESTIC PRODUCTS. ALL VENDORS MUST INDICATE IN THEIR BID IF THEY ARE		

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				SUPPLYING FOREIGN ALUMINUM, GLASS OR STEEL. REV. 3/88 EXHIBIT 9 NOTICE FOR ISSUANCE & ACKNOWLEDGEMENT OF CONSTRUCTION PROJECT ADDENDA THE ARCHITECT/ENGINEER AND/OR AGENCY SHALL BE REQUIRED TO ABIDE BY THE FOLLOWING SCHEDULE IN ISSUING CONSTRUCTION PROJECT ADDENDA FOR STATE AGENCIES: (1) THE ARCHITECT/ENGINEER SHALL PREPARE THE ADDENDUM AND A LIST OF ALL PARTIES THAT HAVE PROCURED DRAWINGS AND SPECIFICATIONS FOR THE PROJECT. THE ADDENDUM AND LIST SHALL BE FORWARDED TO THE BUYER IN THE STATE PURCHASING DIVISION. THE ARCHITECT/ENGINEER SHALL ALSO SEND A COPY OF THE ADDENDUM TO THE STATE AGENCY FOR WHICH THE CONTRACT IS ISSUED. (2) THE BUYER SHALL SEND THE ADDENDUM TO ALL INTERESTED PARTIES AND, IF NECESSARY, EXTEND THE BID OPENING DATE. ANY ADDENDUM SHOULD BE RECEIVED BY THE BUYER WITHIN FOURTEEN (14) DAYS PRIOR TO THE BID OPENING DATE. (3) ALL ADDENDA SHOULD BE FORMALLY ACKNOWLEDGED BY ALL BIDDERS AND SUBMITTED TO THE STATE PURCHASING DIVISION AND THE STATE AUDITOR'S OFFICE. THE SAME RULES AND REGULATIONS THAT APPLY TO THE ORIGINAL BIDDING DOCUMENT SHALL ALSO APPLY TO AN ADDENDUM DOCUMENT. THE ONLY EXCEPTION MAY BE FOR AN ADDENDUM THAT IS ISSUED FOR THE SOLE PURPOSE OF CHANGING A BID OPENING TIME AND/OR DATE.			

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	REV. 11/96					
	EXHIBIT 10					
	ADDENDUM ACKNOWLEDGEMENT					
	I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.					
	ADDENDUM NOS.:					
	NO. 1	.....	.....	.....
	NO. 2	.....	.....	.....
	NO. 3	.....	.....	.....
	NO. 4	.....	.....	.....
	NO. 5	.....	.....	.....
	I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.					
SIGNATURE					
COMPANY					
DATE					
	REV. 11/96					

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CONTRACTORS LICENSE						
WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS LICENSE. APPLICATIONS FOR A CONTRACTORS LICENSE MAY BE MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV 25305. TELEPHONE: (304) 558-7890.						
WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID.						
BIDDER TO COMPLETE:						
CONTRACTORS NAME:						
CONTRACTORS LICENSE NO.:						
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT						
APPLICABLE LAW						
THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULES AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.						
ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS						

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<p>OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 1/2005</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: KF-21</p> <p>REQ. NO.: RMA70022</p> <p>BID OPENING DATE: 01/25/2007</p> <p>BID OPENING TIME: 1:30 PM</p>						

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PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						

PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE:						

***** THIS IS THE END OF RFQ RMA70022 ***** TOTAL:						

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REQUEST FOR QUOTATION

010

The West Virginia State Rail Authority wishes to solicit bids for a contractor to install bridge ties and rail on a railroad bridge located in Elkins, WV and two additional tracks from the north end of the bridge to the front of the Elkins Depot.

SPECIFICATIONS:

Bridge track work will consist of all work from the top of the rail to the bottom of the ties including their securement as follows:

The contractor will be responsible for having a certified engineer survey the area and layout the placement of the tracks in front of the depot as well as the location of the two Number 10 131# turnouts. The design of the track layout must be approved by the State Rail Authority prior to the start of work.

131 # rail will be installed over the bridge and continuing on to the front of the depot. Rail laid will equal 698 lf across the bridge, track one will be 1150 lf and track two will be 1050 lf. The length of the two tracks after the switches are installed will be a total of 2,898 lf of rail installed.

100# jointed guard rail will also be installed on the bridge. (698 lf) The 100# rail and joint bars will be provided however, the contractor is responsible for removing it from side tracks located at Cheat Bridge and transporting the rail and joint bars to the Elkins work site.

The 131 # rail and joint bars will be provided however, the contractor is responsible for removing it from side tracks located at Cheat Bridge and transporting the rail and joint bars to the Elkins work site.

The vendor will install the ties on the bridge with tie spacing as shown on the attached tie layout drawing. The ties for the track from the end of the bridge to the depot will be placed on 21" centers.

CONDUCT OF WORK

Work will be subject to inspection by the SRA and WVCR.

The contractor will comply with all safety rules and regulations as required by the Federal Railroad Administration, WVCR and other parties as applicable.

Contractor will use Heavy and Highway Construction Rates as established for Randolph County. These rates are pursuant to WV code §21-5A, et. Seq and are available at www.wvsos.com/adlaw/wagerates/heavyandhighway06.htm. Contractor will be responsible for submitting certified payrolls to the SRA.

MATERIALS

Vendor is responsible for all materials as listed on the attached materials list except for the 131# jointed rail, 131# joint bars, 100# guard rail, 100# joint bars, two number 10 131# switches and two complete sets of #10 switch ties. These items will be provided by the WVSRA. As stated previously, the 131 & 100 rail and joint bars are located at Cheat

Bridge, WV and it is the contractor's responsibility to remove the rail and joint bars and transport them to the Elkins project site. The turnouts and switch ties are located at the Elkins project site.

The sizes and quantities of the bridge ties are listed on the attached material list. Bridge ties will be new and will meet AREMA specifications. Bridge ties will oak and creosote pressure treated 10# retention or refusal. Ties will be dapped 1/2 inch to fit over bridge girders.

The ties for the track placement from the edge of the bridge to the front of the depot are to be 7" x 9" x 8'6" industrial grade ties. Specifications in AREMA Chapter 3 will govern. Ties will be mixed hardwoods and oak, 100% end plated and creosote pressure treated to 7# retention or refusal. Contractor will provide treated tie plugs and 6" track spikes per AREMA specifications.

The quantities of the steel tie spacers, tie anchors, nuts, bolts & washers is listed on the attached materials sheet. All materials must meet AREMA specifications.

COMPLETION DATE

All work must be completed by June 30, 2007. The cost to the SRA for the administration of the contract as well as delays in operating the excursion train that will be incurred by the WVCR after that date make it necessary for the agency to access liquidated damages against the contractor for each calendar day any work remains uncompleted after that date. The charge will be \$500 per day.

BID REQUIREMENTS

Contractor must have previous experience in railroad bridge work.

A mandatory pre-bid meeting will be held on Tuesday, January 9, 2007 at 1:00 pm. Everyone will meet at the Elkins Depot in Elkins, WV. Questions prior to the prebid inspection must be submitted in writing to Krista Ferrell via email at kferrell@wvadmin.gov or by fax 304-558-4115 by January 5, 2007 and will be addressed at the prebid meeting.

The vendor is to bid this project as one lump sum including all mobilization, labor and material costs necessary to complete the project as described above.

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AND PIERS UPON WHICH PADS WILL BE SET
S AND ELEVATIONS

NO. 1 SHALL BE REPLACED IN KIND WITH NEW OR
ATISFACTION OF THE ENGINEER. THE TIMBER
L NOT BE REPLACED. ALL WORK AND MATERIAL
TEM 701001-001 REPLACE TIMBER CRIB WALLS.

LY THE AREAS SHOWN ON THE PLANS AS
FIELD. THE ENGINEER WILL DELINEATE THE
ICRETE PATCHING WILL BE PAID UNDER ITEM
STRUCTURES. METHODS OF CONCRETE PATCHING
E SPECIAL PROVISION FOR SECTION 601.
EASED BY 50% OVER THE FIELD MEASURED
SED AS DIRECTED BY THE ENGINEER.

ETE
NCRETE SHALL BE REMOVED FROM THE AREAS TO
AND TO SUCH AN EXTENT AS TO EXPOSE A
DEPTH OF A PATCH SHALL NOT BE LESS THAN 4
URFACES, ON WHICH IT SHALL NOT BE LESS THAN
EATH THE DISINTEGRATED CONCRETE) SHALL BE
ESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH.
PTH OF PATCH IS MAINTAINED. AREAS WHERE A
OT BE FOUND AT A REASONABLE DEPTH, AS
THE FIELD, MAY BE REMOVED ENTIRELY AND
AND PAID UNDER ITEM 601002-001, CLASS B
LY SLIGHTLY UNDERCUT SHOULDERS, HAVING A
MINIMUM DEPTH OF THE PATCH, SHALL BE MADE
THE CONTRACTOR WILL ENCOUNTER EXISTING
EMENTS (INCLUDING STEEL R.R. RAILS) WITHIN THE
REMOVING THESE ITEMS SHALL BE INCLUDED IN
000 "DISMANTLING STRUCTURE."

THAT WILL GIVE RESULTS SATISFACTORY TO THE
REMOVAL OF THE DISINTEGRATED CONCRETE AND
AREAS TO BE PATCHED.

ROUND REINFORCING STEEL SO AS NOT TO
O SHATTER THE CONCRETE AROUND IT, BEYOND

SHALL BE ADEQUATELY SUPPORTED AND TIED BACK
AT IS DAMAGED DURING THE CONTRACTOR'S
AT THE CONTRACTOR'S EXPENSE.

DOSE CONCRETE HAS BEEN REMOVED, THE AREA
ERLY SHAPED AND ANY DOWEL OR EXPANSION
WIRE FABRIC TO BE USED IN THE PATCH SHALL BE
IE AREA TO BE PATCHED AND EXPOSED
OROUGHLY CLEANED OF ALL DIRT, DUST OR OTHER
OF WATER, AIR UNDER PRESSURE, OR ANY OTHER
ACTORY RESULTS. THE SURFACE SHALL BE
EAN WATER. BEFORE PLACING THE CONCRETE, THE
DRY TO A DAMP CONDITION.

REQUIRED FOR PATCHES ON TOP HORIZONTAL
FOR PATCHES ON OTHER SURFACES SHALL
FABRIC EITHER 2 INCH BY 2 INCH USING WIRE SIZE
INCH USING WIRE SIZE NUMBER W 1.4. THIS
E AREA OF THE PATCH AND SHALL BE PLACED AND
OM THE COMPLETED EXPOSED SURFACE OF THE
BE SECURELY FASTENED TO THE REINFORCING STEEL
POSED IN REMOVING THE DISINTEGRATED CONCRETE,
STEEL EXPOSED OR IT IS NOT PRACTICAL TO FASTEN
SHALL BE FASTENED TO DOWELS OR EXPANSION
RCTOR, AT A DISTANCE NOT TO EXCEED 18 INCH

OF CONCRETE
IN 24 HOURS AFTER PLACEMENT OF THE CONCRETE
HALL BE FINISHED BY RUBBING SO AS TO MATCH AS
ROUNDING CONCRETE.

AL ACCEPTANCE, ALL PATCHED AREAS SHALL BE
VISIBLY CRACKED AREAS SHALL BE REMOVED AND
I'S EXPENSE.

AS SHOWN ON THE PLANS, SHALL BE IN
VISIONS, SECTION 601, AND SHALL BE PAID UNDER
TION CRACK REPAIR.

IE LOCATED ONLY WHERE SHOWN ON THE PLANS.
LOWED SUBJECT TO APPROVAL OF THE ENGINEER.

PLANS ARE PROJECT DATUM (GROUND
WEST VIRGINIA PLANE COORDINATES.

PLANS REFER TO USGS V 2 1933 ELEV. 1933.40
CORNER OF THE ELKINS DEPOT. ALL
RIZONTAL OR VERTICAL UNLESS NOTED

IBLE FOR VERIFICATION OF ALL PLAN AND
TO ORDERING MATERIALS FOR THE
ID ITEMS ON THIS PROJECT.

REPLACEMENT OF ABUTMENT SEATS, BACKWALLS, WINGWALLS, AND PIER CAPS

ALL CONCRETE SHALL BE CLASS B. THE QUANTITY OF CONCRETE HAS BEEN
INCREASED BY 10% TO BE USED AT THE DISCRETION OF THE ENGINEER IF NEEDED
WHERE PATCHING OPERATIONS ARE NOT FEASIBLE.

PRIOR TO CONCRETE PLACEMENT, ABRASIVELY CLEAN JOINT SURFACE AND
EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND
LOOSE RUST. THEN THE JOINT SURFACE AND EXPOSED REINFORCEMENT SHALL BE
THOROUGHLY CLEANED OF ALL DIRT, DUST, OR OTHER FOREIGN MATERIAL BY THE
USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE
SATISFACTORY RESULTS. CONCRETE BONDING SURFACES SHALL BE WET WITHOUT
FREE WATER AS CONCRETE IS PLACED. THE CONTACT SURFACES BETWEEN THE
EXISTING AND NEW CONCRETE SHALL BE COATED WITH AN APPROVED EPOXY
BONDING COMPOUND PRIOR TO PLACING NEW CONCRETE (SEE SPECIAL PROVISION).

DOWEL BARS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS.
LOCATIONS MAY BE ADJUSTED AS APPROVED BY THE ENGINEER IF THERE ARE
CONFLICTS WITH EXISTING REINFORCING STEEL. GROUT DOWEL HOLES PRIOR TO
INSERTING REINFORCING BARS. GROUT TO CONFORM TO ASTM C1107.

EPOXY RESIN PROTECTIVE COATING

AFTER CONCRETE IS CURED AND CRACKS ARE INJECTED, ALL NEW AND EXISTING
CONCRETE SURFACES ABOVE GROUND LEVEL OF THE SUBSTRUCTURE UNITS SHALL
BE SEALED WITH AN EPOXY RESIN PROTECTIVE COATING IN ACCORDANCE WITH
SECTION 601.13.2. CONTRACTOR SHALL PROPOSE A METHOD OF CLEANING THE
SUBSTRUCTURE PRIOR TO PLACING THE COATING. THE CLEANING MAY BE BY ACID
ETCHING, SANDBLASTING, AND/OR HIGH PRESSURE WATER AS RECOMMENDED BY THE
EPOXY COATING MANUFACTURER AND AS APPROVED BY THE ENGINEER. EXISTING
SURFACES SHALL BE FREE OF ALL EFFLORESCENCE. ALL CLEANING, WORK, AND
MATERIALS NEEDED TO PROVIDE THE COATING SHALL BE INCLUDED IN THE LUMP
SUM BID PRICE FOR ITEM 601013-001 EPOXY RESIN PROTECTIVE COATING.

THE COLOR FOR THE COATING MAY BE ANY OF THE FOLLOWING:
FEDERAL STANDARD 595, COLOR FS: 30219 (RED BROWN)
FEDERAL STANDARD 595, COLOR FS: 30227 (OLIVE DRAB)
FEDERAL STANDARD 595, COLOR FS: 30219 (STONE)
OTHER SIMILAR COLORS MAY BE ACCEPTABLE AT THE DISCRETION OF
THE ENGINEER. MATTE FINISH IS PREFERRED, HOWEVER SEMI-GLOSS
MAY BE ACCEPTABLE AT THE DISCRETION OF THE ENGINEER.

BRIDGE TRACK WORK

THE LUMP SUM BID FOR ITEM 695026-001, BRIDGE TRACK WORK, SHALL
INCLUDE ALL WORK AND MATERIALS FROM THE TOP OF THE RAIL TO THE
BOTTOM OF THE TIES INCLUDING THEIR SECUREMENT AND INCLUDING, BUT
NOT LIMITED TO THE FOLLOWING:

- 1) NEW 8"x 10"x 10' TIMBER BRIDGE TIES & CUSTOM TIES OVER FLOORBEAMS
- 2) NEW 3"x 3/4" GALVANIZED STEEL TIE SPACERS WITH GALVANIZED 5/8" LAG SCREWS
- 3) FOR SPAN NO. 5, PLACE 3"x4" TIMBER FILLS BETWEEN THE TIES FLUSH WITH
THE TOP SURFACE OF THE TIES TO PREVENT ANY MATERIAL DROPPING
THROUGH THE TIES. FILLS ARE PLACED WITH EITHER DIMENSION VERTICAL
TO BEST FILL THE SPACE.
- 4) NEW GALVANIZED TIE ANCHORS WITH 3/4" HOOK BOLTS, NUTS, AND WASHERS
- 5) RELAY DOUBLE SHOULDER TIE PLATES
- 6) RELAY NUMBER 1 GRADE ~~105~~ JOINTED RAIL, AND OTHER TRACK MATERIAL
(O.T.M)
- 7) RELAY NUMBER 1 GRADE ~~105~~ JOINTED GUARD RAIL

ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH AREMA
SPECIFICATIONS.

BRIDGE TIES SHALL BE OAK OR PINE. OAK TIES SHALL CONFORM TO
PARAGRAPH 214, STRUCTURAL BEAMS AND STRINGERS, NATIONAL HARDWOOD
LUMBER ASSOCIATION SPECIFICATIONS DATED 1957. PINE SHALL CONFORM TO
TO SOUTHERN PINE INSPECTION BUREAU GRADING RULES DATED 1970.
BRIDGE TIES, AND STRUCTURAL TIMBER OVER 2 INCHES IN THICKNESS
SHALL BE DENSE STRUCTURAL 65. PLANKING AND TIMBER FILLS SHALL BE
NO. 1 DENSE.

ALL TIMBER FOR PERMANENT CONSTRUCTION SHALL BE TREATED IN ACCORDANCE
WITH AMERICAN WOOD PRESERVERS ASSOCIATION, STANDARD C2, USING NO. 1
CREOSOTE. TIMBER SHALL HAVE A RETENTION OF 10 POUNDS PER CUBIC FOOT
BY GAUGE.

AT THE ENDS OF EACH SPAN, THE TIE SPACERS SHALL END ON THE LAST
TIE IN THE SPAN TO ALLOW STRUCTURE EXPANSION AND SHALL NOT BE
CONNECTED TO THE BACKWALL OR APPROACH TIE.

BRIDGE TRACK WORK SHALL BE INSTALLED BY A CONTRACTOR WITH
RELEVANT RAILROAD TRACK EXPERIENCE. PROOF OF RELEVANT TRACK WORK
EXPERIENCE MUST BE SUBMITTED TO THE OWNER PRIOR TO AWARD OF THE
CONTRACT. OWNER MAY REJECT BIDS IF ADEQUATE EXPERIENCE IS NOT
PROVIDED.

COAL TAR EPOXY COATING APPLICATION

THE TOP SURFACE OF THE TOP FLANGES OF ALL STRINGERS, FLOORBEAMS,
AND GIRDERS THAT CONTACT THE TIMBER RAILROAD TIES SHALL BE COATED IN
A COAL TAR EPOXY MATERIAL MEETING OR EXCEEDING THE REQUIREMENTS OF
THE CORPS OF ENGINEERS C-200 SPECIFICATION, GOVERNMENT SPECIFICATION
DOD-P-23236 (SHIPS), AND STRUCTURES PAINTING COUNCIL SSPC-16-91.
THE LIMITS OF COATING SHALL BE AS SHOWN ON THE PLANS: (1) THE FULL
LENGTH OF ALL STRINGERS IN SPANS 3 & 5, (2) THE FULL LENGTH OF ALL
GIRDERS IN SPANS 1, 2, & 4, & (3) AN 11' LENGTH CENTERED ON ALL
FLOORBEAMS IN SPANS 3 & 5.

THE COATING SHALL BE APPLIED AS PER THE SPECIFICATIONS AND ALL
MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. THE COATINGS
SHALL BE APPLIED BY BRUSH OR SPRAY USING COMMERCIALY AVAILABLE
EQUIPMENT. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE
HANDLING OF ALL COATED STEEL MEMBERS SO AS TO DAMAGE THE COATING.
ANY DAMAGE TO THE COATING DURING HANDLING OR OTHERWISE SHALL BE
REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

BEFORE APPLYING THE COATING, THE CONTRACTOR SHALL CLEAN AND PREPARE
ALL SURFACES TO BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS &
THE MANUFACTURER'S REQUIREMENTS & RECOMMENDATIONS.

EPOXYSYSTEMS PRODUCT #216 - TWO-COAT COAL TAR EPOXY COATING.
BENJAMIN MOORE CO. M47/M48 COAL TAR EPOXY, OR SIMILAR MAY BE USED.
THE CONTRACTOR SHALL ASSURE THAT THE PRODUCT USED IS COMPATIBLE
WITH WEATHERING STEEL.

*Rail is located
At
Cheat Bridge.*

AUTHORITY BRIDGE	JOB NO.	35592
	DESIGNED BY:	MWL
	DRAWN BY:	MWL
	CHECKED BY:	EMC
	APPROVED BY:	XXX
DATE:	APRIL 2005	

GENERAL NOTES

SCALE:	
NONE	
SHEET NO.	OF
3	27

SUMMARY OF ESTIMATED QUANTITIES											
ITEM	PRIN. OR ALT.	DESCRIPTION	UNITS	QUANTITY	ABUTMENTS		PIERS				GENERAL
					1	2	1	2	3	4	
204001-000		MOBILIZATION	LS	1							1
203001-000		DISMANTLING STRUCTURE	LS	1							1
212005-000		SELECT MATERIAL FOR BACKFILLING	CY	10		10					
601002-001		CLASS B CONCRETE	CY	111	1	14	2	29	40	24	
601013-001		EPOXY RESIN PROTECTIVE COATING	LS	1							1
601030-000		PATCHING CONCRETE STRUCTURES	SF	610	20	200	60	210	50	70	
601031-001		EPOXY INJECTION CRACK REPAIR	LF	18	0	2	0	0	5	11	
602001-001		REINFORCING STEEL BAR	LB	10,806	353	2236	529	2597	3107	1984	
615001-002		STEEL SUPERSTRUCTURE	LS	1							1
639001-001		CONSTRUCTION LAYOUT STAKE	LS	1							1
695026-001		BRIDGE TRACK WORK	LS	1							1
701001-001		REPLACE TIMBER CRIB WALLS	LS	1							1

ITEM 695026-001
BRIDGE TRACK WORK (LS) - FOR INFORMATION ONLY

DESCRIPTION	UNITS	QUANTITY
3"x3/4" STEEL TIE SPACERS	LF	698
TIE ANCHORS, NUTS, BOLTS, AND WASHERS	EA	236
DOUBLE SHOULDER TIE PLATES	EA	352
1 1/2" JOINTED RAIL & O.T.M.	LF	698
1 1/2" JOINTED GUARD RAIL	LF	698
8"x10" (ROUGH) x10' TIMBER BRIDGE TIES	EA	337
8"x12" (NOMINAL) x10' TIMBER BRIDGE TIES	EA	9
8"x3 1/2" (ROUGH) x10' TIMBER BRIDGE TIES	EA	6
3"x4" (ROUGH) x10' FILL TIMBERS	EA	47

33/10

ITEM 615001-002
STEEL SUPERSTRUCTURE (LS) - FOR INFORMATION ONLY

DESCRIPTION	UNITS	QUANTITY		
		APPROACH	MAIN	TOTAL
ASTM A709 GRADE 50W, 50T2 & 50F2 STEEL	LB	135,900	234,600	370,500
ELASTOMERIC BEARINGS	EA	16	4	20

ITEM 602001-001
REINFORCING STEEL BARS (LB)

SIZE	ABUTMENT		PIERS				TOTAL
	NO. 1	NO. 2	NO. 1	NO. 2	NO. 3	NO. 4	
4							
5	54	685	189	1,185	1,315	555	3,983
6	299	1,551	340	1,412	1,792	1,429	6,823
7							
8							
TOTAL	353	2,236	529	2,597	3,107	1,984	10,806

ITEM 601013-001
EPOXY RESIN PROTECTIVE COATING (LS)
COATING AREA IN SQ. FT. - FOR INFORMATION ONLY

ABUTMENT		PIERS				TOTAL
NO. 1	NO. 2	NO. 1	NO. 2	NO. 3	NO. 4	
320	1,190	470	1,830	1,450	1,130	6,390

NO.	REVISIONS	DATE	BY	CHK.

Burgess & Niple, Inc. Parkersburg, WV



BURGESS & NIPLE

RANDOLPH COUNTY DE
TYGART VALLEY RIVE

MAINTENANCE OF ROADWAY & PEDESTRIAN TRAFFIC

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING CLOSURES OF WILSON STREET WITH THE CITY OF ELKINS, POLICE, AND FIRE DEPARTMENT. THE CITY WILL PROVIDE STREET CLOSED SIGNS AND THE CONTRACTOR IS RESPONSIBLE FOR PLACEMENT OF THE SIGNS AND OPENING WILSON STREET TO TRAFFIC AT THE END OF EACH WORK DAY. CLOSURE OF WILSON STREET WILL BE PERMITTED FOR EACH OF THE FOLLOWING ACTIVITIES: CONCRETE PATCHING; STEEL ERECTION; PAINTING; AND BRIDGE TRACK WORK. THE TOTAL NUMBER OF CLOSURE DAYS IS NOT TO EXCEED 20 CALENDAR DAYS CUMMULATIVE (5 DAYS PER ACTIVITY). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PROTECTION OF PEDESTRIANS USING THE SIDEWALK. CLOSURE OF WILSON STREET AND THE ADJACENT SIDEWALK WILL NOT BE PERMITTED DURING THE FOREST FESTIVAL (SEPTEMBER 26, 2005 THROUGH OCTOBER 4, 2005). ALL COSTS SHALL BE INCIDENTAL TO VARIOUS BID ITEMS OF THE PROJECT.

COORDINATION WITH THE CITY OF ELKINS AND RIVER FLOWS

THIS SECTION OF THE TYGAR VALLEY RIVER IS IN A FLOOD CONTROL SYSTEM IN WHICH THE CITY OF ELKINS CAN LIMIT THE AMOUNT OF FLOW THROUGH THE PROJECT SITE. THE CITY IS WILLING TO WORK WITH THE CONTRACTORS TO CONTROL THE FLOW OF THE RIVER WITHIN THEIR CAPABILITIES. CONTRACTORS MAY DIRECT QUESTIONS ABOUT THE RIVER CONTROL TO RICK SMITH, SUPERVISOR FOR WATER AT 304-636-8566 AND MAINTENANCE OF TRAFFIC TO RODNEY NUTTER OF THE STREET DEPT. AT 636-1844. THE NUMBER FOR CITY HALL IS 636-1414.

COORDINATION OF CONSTRUCTION

THE CONTRACTOR IS HEREBY NOTIFIED THAT THE OWNER MAY BE CONSTRUCTING THE APPROACH TRACKS DURING THE SAME TIME PERIOD THAT THE BRIDGE IS BEING CONSTRUCTED. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH ADJACENT CONSTRUCTION PROJECTS.

FERTILIZER, SEEDING AND MULCHING

ALL DISTURBED SOIL AREAS ARE TO BE SEEDED, MULCHED AND FERTILIZED WITHIN 30 DAYS OF DISTURBANCE. SEEDING, FERTILIZER AND MULCHING WILL BE AS SPECIFIED IN SECTION 652 OF THE STANDARD SPECIFICATIONS. TESTING WILL NOT BE REQUIRED ON THOSE ITEMS WHEN PURCHASED FROM A REPUTABLE DEALER. ALL COSTS SHALL BE INCIDENTAL TO VARIOUS BID ITEMS OF THE PROJECT.

INSTREAM WORK

INSTREAM WORK AND DISTURBANCES SHALL BE MINIMIZED. HOWEVER WHEN REQUIRED, INSTREAM WORK SHALL BE ACCOMPLISHED DURING LOW FLOWS (PRIOR TO OR FOLLOWING FISH SPAWNING SEASON, APRIL 1- JUNE 15). STREAM BED DISTURBANCES SHALL BE RESTRICTED TO THE IMMEDIATE AREA OF THE PROJECT. ALSO, THERE SHALL BE NO INTRODUCTION OF GREEN CONCRETE INTO THE STREAM AND NO USE OF INSTREAM EXPLOSIVES. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN KEEPING ANY DEBRIS FROM FALLING INTO THE STREAM DURING DISMANTLING. ANY DEBRIS FALLING INTO THE STREAM SHALL BE IMMEDIATELY REMOVED.

EXISTING UTILITIES

ALL EXISTING UTILITIES IN THE PROJECT AREA WERE LOCATED AND SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS SHOWN ON THE PLANS ARE BASED ON THE FIELD SURVEYS AND UTILITY VERIFICATION BY THE UTILITY COMPANIES IDENTIFIED ON THE TITLE SHEET. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE FINAL EXACT LOCATION OF ALL EXISTING UTILITIES. ALL COSTS ASSOCIATED WITH ANY DISRUPTION OF SERVICES RESULTING FROM THE CONTRACTOR'S ACTIVITIES WILL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

THE CONTRACTOR MAY CONTACT MR. ED PINGLEY OF ALLEGHENY POWER CO. AT 304-636-0238 TO HAVE THE EXISTING ELECTRIC LINES THAT CROSS THE PROJECT SITE DE-ENERGIZED ON A TEMPORARY BASIS. ONLY LINES ON ONE SIDE OF THE RIVER CAN BE DE-ENERGIZED AT A TIME. THE CONTRACTOR MUST MAINTAIN A 10 FOOT VERTICAL AND HORIZONTAL CLEARANCE TO THE POWER LINES. CONTRACTOR MAY VIOLATE THIS CLEARANCE IF THE LINE IS DE-ENERGIZED AND GROUNDED BY THE POWER COMPANY. ALLEGHENY POWER COMPANY WILL NOT CHARGE THE CONTRACTOR FOR REASONABLE WORK REQUESTS AS DETERMINED BY ALLEGHENY POWER COMPANY.

WATER QUALITY

THE CONTRACTOR WILL BE RESPONSIBLE FOR WATER QUALITY AND EROSION CONTROL THROUGHOUT THE DURATION OF CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE FOR EROSION CONTROL DEVICES.

COORDINATION WITH ENGINEER

CONTRACTOR WILL BE REQUIRED TO PROVIDE 7 DAYS NOTICE IN WRITING TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE FOLLOWING CONSTRUCTION ACTIVITIES:

- 1) PLACING OF PATCHING MATERIAL
- 2) CONCRETE POURS
- 3) INSTALL OF ANCHOR RODS
- 4) STEEL ERECTION
- 5) PAINTING

THE CONTRACTOR SHOULD REFERENCE SECTIONS 105.11 AND 105.12.

DISMANTLING STRUCTURES

ITEM 203001-000 DISMANTLING STRUCTURES SHALL INCLUDE:

1. THE REMOVAL AND DISPOSAL OF PORTIONS OF THE EXISTING CONCRETE PIER CAPS, ABUTMENT BACKWALL, AND ABUTMENT BEARING SEATS AT LOCATIONS AND TO THE LIMITS SHOWN ON THE PLANS.
2. THE REMOVAL AND DISPOSAL OF THE TIMBER CRIB WALLS AT ABUTMENT NO. 1.
3. EXCAVATION BEHIND ABUTMENT NO. 2 BACKWALL. REMOVAL OF STEEL BARRICADE AND METAL HAND RAIL ATTACHED TO ABUTMENT NO. 2.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE CURRENT CONDITION OF THE STRUCTURE AND SHALL USE APPROPRIATE METHODS AND PROCEDURES FOR DISMANTLING THE STRUCTURE IN A SAFE AND EFFICIENT MANNER.

THE CONTRACTOR SHALL REMOVE PORTIONS OF THE EXISTING CONCRETE PIER CAPS, ABUTMENT BACKWALL, AND ABUTMENT BEARING SEATS TO THE LIMITS SHOWN ON THE PLANS IN SUCH A MANNER THAT NO DAMAGE RESULTS IN THE ABUTTING SECTIONS WHICH ARE TO REMAIN IN PLACE. IF ANY DAMAGE OCCURS IN THE REMAINING SECTIONS, IT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE ENGINEER. ALL LOOSE, SOFT, HONEYCOMBED, AND DISINTEGRATED CONCRETE SHALL BE REMOVED. SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVAL 1 IN. DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. IF ANY REINFORCING STEEL THAT IS TO REMAIN IN PLACE IS ACCIDENTALLY CUT OR SEVERELY DAMAGED, IT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. AS-BUILT PLANS DATED FEBRUARY 1931, INDICATE THAT THE SUBSTRUCTURE UNITS ARE MASONRY ENCAPSULATED IN CONCRETE REINFORCED WITH 70# RAIL PLACED AT 3' CENTERS VERTICALLY AROUND THE PIERS AND 3/4" REINFORCING RODS PLACED ON 1' CENTERS HORIZONTALLY AROUND THE PIERS AND ABUTMENTS. PROTRUDING REINFORCING STEEL SHALL BE LEFT IN PLACE.

UPON COMPLETION OF REMOVAL, THE ENGINEER WILL SOUND THE AREAS TO ENSURE THAT ONLY SOLID CONCRETE REMAINS. METHODS OF REMOVAL SHALL BE IN ACCORDANCE TO THE SPECIAL PROVISION FOR SECTION 601, ARTICLE 601.10.6.

THE CONTRACTOR ALSO HAS THE OPTION OF USING HYDRODEMOLITION FOR CONCRETE REMOVAL. EXCESS WATER RESULTING FROM HYDRODEMOLITION SHALL BE CONTAINED AND PREVENTED FROM CONTAMINATING STREAMS AND GROUND WATER.

THE CONTRACTOR SHALL SUBMIT HIS PLANS FOR ALL DEMOLITION PROCEDURES IN WRITING PRIOR TO BEGINNING WORK TO THE ENGINEER FOR REVIEW.

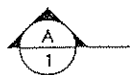
CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION NOTICES AND RELATED PERMITS.

ALL MATERIAL FROM THE DISMANTLED STRUCTURE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE RIGHT-OF-WAY.

PLAN SHEET ABBREVIATIONS & SYMBOLOLOGY

E.F. - EACH FACE	CY - CUBIC YARD
F.F. - FAR FACE	SY - SQUARE YARD
N.F. - NEAR FACE	LB - POUND
EL - ELEVATION	LF - LINEAR FEET
ELEV. - ELEVATION	SF - SQUARE FEET
EQ. - EQUAL	LS - LUMP SUM
S.O. - SERIES OF	HMA - HOT MIX ASPHALT
SPA. - SPACING	CLR. - CLEAR
DWG. - DRAWING	BRGS. - BEARINGS
C/C - CENTER TO CENTER	PEJF - PREFORMED EXPANSION JOINT FILLER
DIA. - DIAMETER	U.N.O. - UNLESS NOTED OTHERWISE
WP - WORK POINT	C.J. - CONSTRUCTION JOINT
MIN. - MINIMUM	PCC - PORTLAND CEMENT CONCRETE
TYP. - TYPICAL	M.E. - MATCH EXISTING SLOPE
C - CENTERLINE	RCJ - ROUGHENED CONSTRUCTION JOINT
FCM - FRACTURE CRITICAL MEMBER	SYM - SYMMETRICAL
EP - EDGE OF PAVEMENT	RAD - RADIUS
CVN - CHARPY V-NOTCH MEMBER	
CJP - COMPLETE JOINT PENETRATION	
CS - COMPRESSION STRESS ONLY	

- (G#) - GIRDER DESIGNATION
- (S#) - STRINGER DESIGNATION
- (T#) - TRUSS DESIGNATION



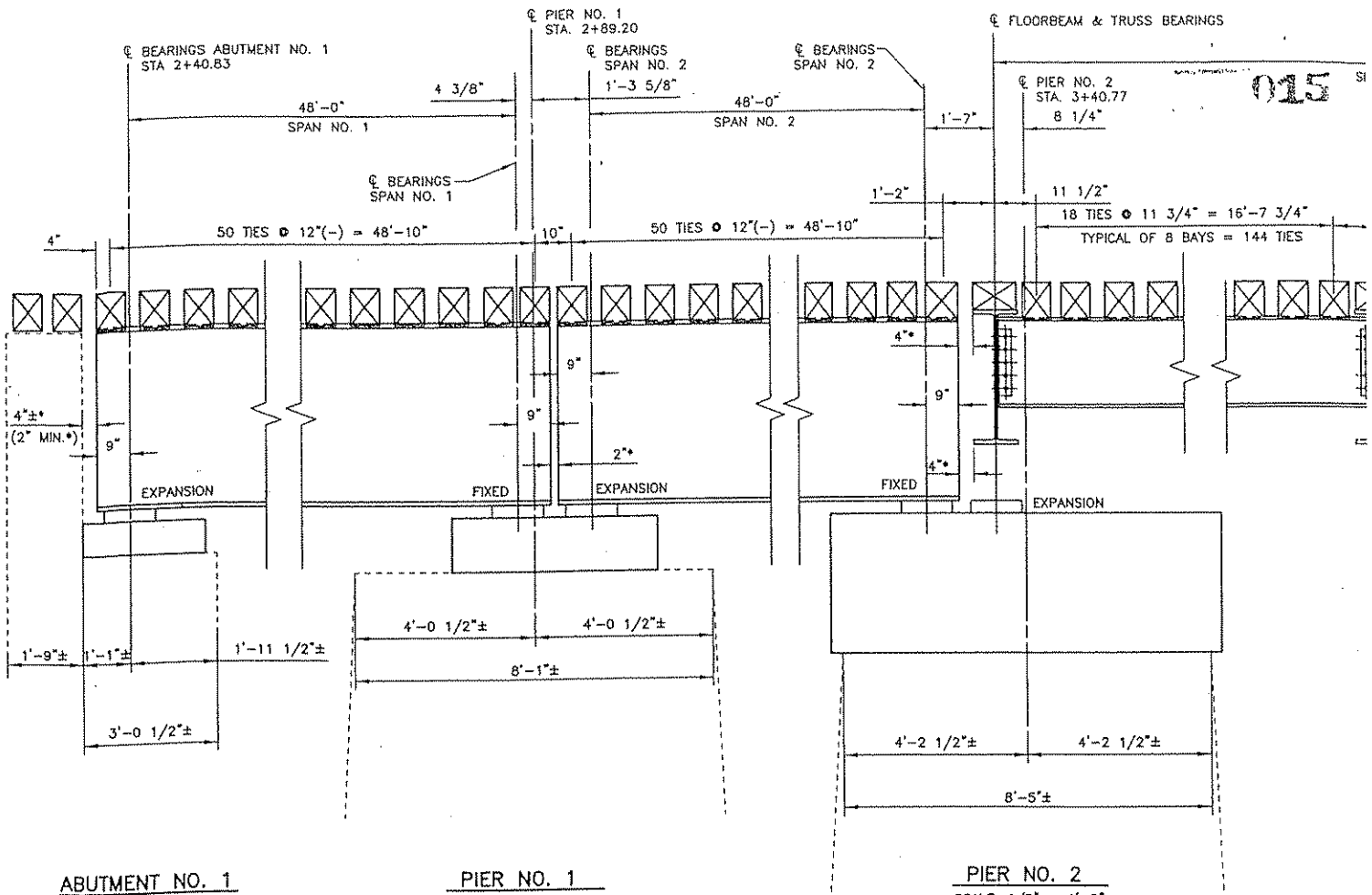
A = SECTION OR DETAIL DESCRIPTION
1 = SHEET NUMBER CROSS REFERENCE

JOB NO.	35592
DESIGNED BY:	MWL
DRAWN BY:	JMB
CHECKED BY:	AOE
APPROVED BY:	MWL
DATE:	APRIL 2005

SCALE:		NONE
SHEET NO.	OF	
4	27	

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NO.	REVISIONS	DATE	BY	CHK.

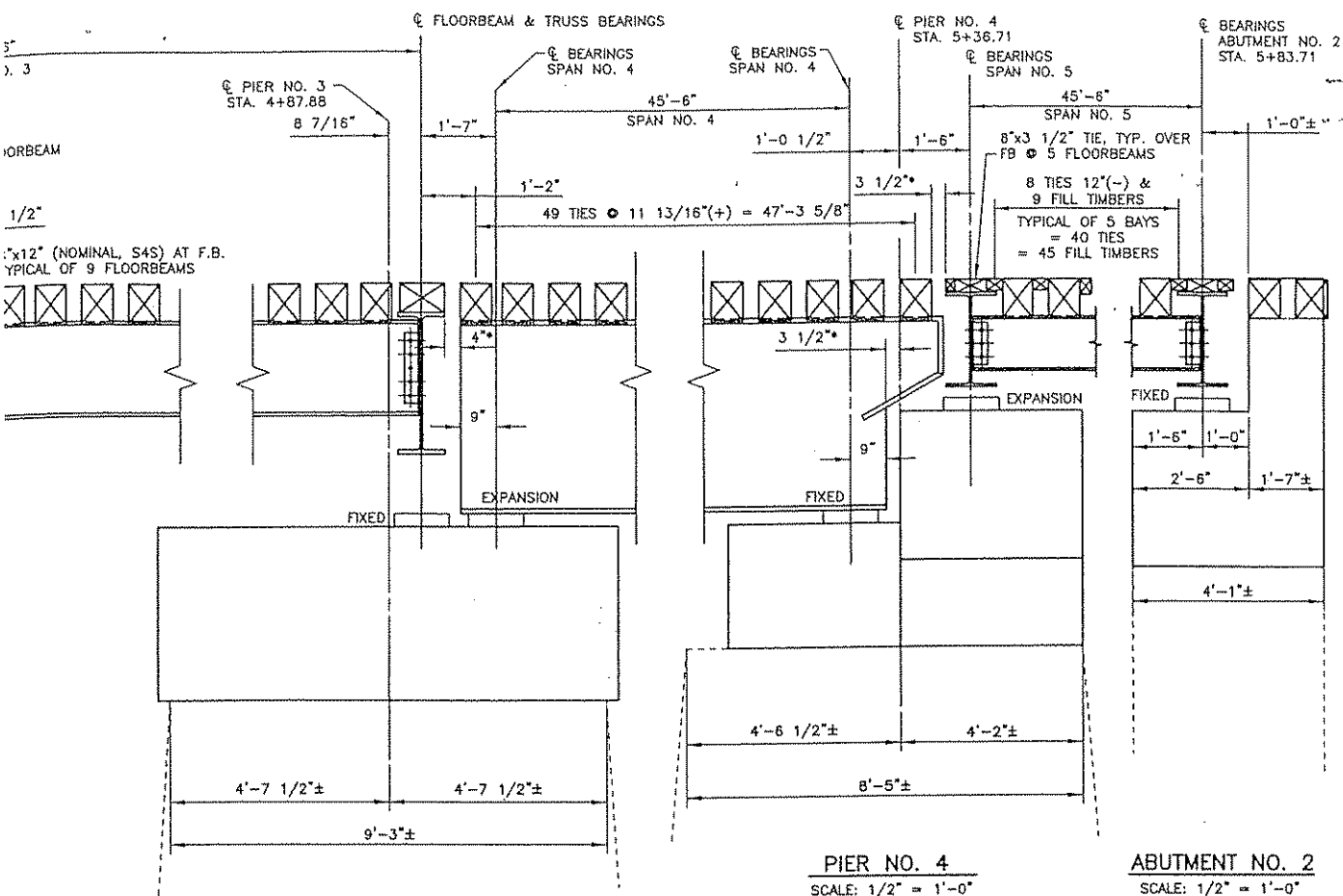


Burgess & Niple, Inc.

Parkersburg, WV

BURGESS & NIPLE

RANDOLPH COUNTY
TYGART VALLEY



LEGEND

• DENOTES AT 68°F

DEVELOPMENT AUTHORITY
 RAILROAD BRIDGE

JOB NO.	35592
DESIGNED BY:	MWL
DRAWN BY:	AOE
CHECKED BY:	AOE
APPROVED BY:	XXX
DATE:	MARCH 2005

TIE LAYOUT AND BEARING LOCATIONS

SCALE:	
1/2" = 1'-0"	
SHEET NO.	OF
5	27