



**CONSTRUCTION NOTIFICATION**

THE CONTRACTOR WILL ADVISE THE PROJECT ENGINEER A MINIMUM OF TWENTY ONE (21) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE RESTRICTIONS, LANE CLOSURES, AND OR ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICER (PIO) BY FAX AT (614) 887-4510  
OR EMAIL AT: [D05.PIO@dot.state.oh.us](mailto:D05.PIO@dot.state.oh.us)

DISTRICT PERMIT SECTION BY FAX AT (614) 887-4525  
OR EMAIL AT: [brian.bosch@dot.state.oh.us](mailto:brian.bosch@dot.state.oh.us)

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY FAX AT (614) 728-4099  
OR EMAIL AT: [hauling.permits@dot.state.oh.us](mailto:hauling.permits@dot.state.oh.us)

DEBBIE ROBINSON WITH THE VISTORS & CONVENTION BUREAU  
FOR GUERNSEY COUNTY @ (740) 432-2022

THE PIO WILL, IN TURN, NOTIFY THE PUBLIC, THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES, AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE MENTIONED ITEMS, VIA MEDIA SOURCES

**UTILITY OWNERSHIP**

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

COLUMBIA GAS OF OHIO  
98 STEUBENVILLE AVENUE  
CAMBRIDGE, OHIO 43725  
ATTN: WILLIAN RICH  
740-648-0079

GUERNSEY MUSKINGUM ELECTRIC COOPERATIVE, INC.  
17 SOUTH LIBERTY STREET  
NEW CONCORD, OHIO 43762  
ATTN: BOB CAMPBELL  
740-826-7661

WINDSTREAM COMMUNICATIONS  
32699 OLD NATIONAL RD.  
BARNSVILLE, OHIO 43713  
ATTN: GREG KUHNASH  
740-758-5819

TIME WARNER CABLE  
4547 NORTH LEEDOM ROAD  
CHANDLERSVILLE, OHIO 43727  
ATTN: BRAD ST. CLAIR  
740-303-3100

GUERNSEY COUNTY WATER  
11272 EAST PIKE  
CAMBRIDGE, OHIO 43725  
ATTN: CLARENCE RIDGLY  
740-439-1269

THE LOCATION OF THE UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

**CONTINGENCY QUANTITIES**

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

**ELEVATION DATUM**

ALL ELEVATIONS ARE ORTHOMETRIC HEIGHTS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND THE GEOID03 GEOID. HORIZONTAL POSITIONS ARE BASED ON THE OHIO STATE PLANE SOUTH ZONE, A LAMBERT CONFORMAL CONIC MAP PROJECTION, THE NORTH AMERICAN DATUM OF 1983 ADJUSTED TO THE NATIONAL SPATIAL REFERENCE SYSTEM OF 2007 (NAD 83 (NSRS 2007)), AND THE GRS80 ELLIPSOID.

**MOBILIZATION**

THE CONTRACTOR SHALL ON ANY CONTRACT FOR WHICH HIS BID EXCEEDS \$50,000.00 INCLUDE AN AMOUNT TO COVER ANY APPLICABLE EXPENDITURES REFERRED TO UNDER ITEM 624 OF THE 2016 CONSTRUCTION AND MATERIAL SPECIFICATIONS. PAYMENT SHALL BE THE LUMP SUM BID PRICE FOR ITEM 624, MOBILIZATION.

**CLEARING AND GRUBBING**

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**ITEM 601 CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN**

CRUSHED AGGREGATE SLOPE PROTECTION, A.P.P. SHALL BE PLACED FRONT OF THE ABUTMENTS AS DETAILED IN THE BRIDGE PLAN AND IN AREAS DESIGNATED BY THE ENGINEER. CONCRETE REMOVED FROM THE EXISTING ABUTMENT MAY BE PLACED ON THE EMBANKMENT SLOPES PROVIDING THAT ALL RE-STEEL FROM THE CONCRETE IS REMOVED. EXISTING CRUSHED AGGREGATE SLOPE PROTECTION MAY BE USED AS LONG AS IT IS FREE OF FOREIGN DEBIS AND OR EMBANKMENT AND IS DEEMED ACCEPTABLE BY THE ENGINEER. ALL CRUSHED AGGREGATE SLOPE PROTECTION SHALL BE AS PER 601.06. AN ESTIMATED AMOUNT OF 34 C.Y. HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR BIDDING PURPOSES, BUT FINAL PAYMENT SHALL BE FOR THE ACTUAL AMOUNT USED AS DIRECTED BY THE ENGINEER.

**ITEM 614, MAINTAINING TRAFFIC (AT ALL TIMES)**

A MINIMUM OF 1 LANE OF TRAFFIC IN EACH DIRECTION ON C.R. 15 SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT. FLAGGERS SHALL BE USED TO TEMPORARY CLOSE LANES AS SHOWN IN STD. DWG. MT-97.10

EXISTING GUARDRAIL SECTIONS LOCATED ON THE C.R. 15 GUARDRAIL SHALL BE TEMPORARILY REMOVED AS DIRECTED BY THE ENGINEER TO ACCESS THE BRIDGE ABUMENTS. ALL EXISTING GUARDRAIL SECTIONS MUST BE REINSTALLED IN THEIR ORIGINAL LOCATIONS BY THE END OF THE SAME WORK DAY. ALL WORK AND MATERIALS TO PERFORM THE DESCRIBED WORK SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 614.

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.

**ITEM 659 SEEDING AND MULCHING, CLASS 2**

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

		<u>0655 RIGHT</u>
ITEM 659 - SEEDING AND MULCHING,		300 SQ. YD.
CLASS 2		
ITEM 659 - COMMERCIAL FERTILIZER		0.04 TON
ITEM 659 - LIME		0.062 ACRES
ITEM 659 - WATER		1.62 M.GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

**CALCULATIONS**

**ITEM 601 CRUSHED AGGREGATE SLOPE PROTECTION, A.P.P.**

REAR ABUTMENT	$\begin{aligned} &(2 \times (9.33' \times 3.17' \times 1.00' \div 27)) \\ &+ (43.67' \times 8.00' \times 1.00' \div 27)) \\ &\times (\text{SLOPE FACTOR } 1.12) = 16.95 \text{ CU. YD.} \end{aligned}$
FORWARD ABUTMENT	
	$\begin{aligned} &(2 \times (9.33' \times 3.17' \times 1.00' \div 27)) \\ &+ (43.67' \times 8.00' \times 1.00' \div 27)) \\ &\times (\text{SLOPE FACTOR } 1.12) = 16.95 \text{ CU. YD.} \end{aligned}$
SUB-TOTAL = 33.90 CU. YD.	

**ITEM 659 SEEDING AND MULCHING, CLASS 2**

ESTIMATED QUANTITIES:	
N.W. CORNER	= 75.0 SQ. YD.
S.W. CORNER	= 75.0 SQ. YD.
N.E. CORNER	= 75.0 SQ. YD.
S.E. CORNER	= 75.0 SQ. YD.
SUB-TOTAL = 300.0 SQ. YD.	

**ITEM 659 COMMERCIAL FERTILIZER**

(300 SQ.YD.) (9) (30) ÷ ((1000) (2000)) = 0.04 TON

**ITEM 659 LIME**

(300 SQ.YD.) (9) ÷ 43,560 = 0.062 ACRE

**ITEM 659 WATER**

(300 SQ.YD.) × 0.0027 × (2 WATERINGS) = 1.62 M. GALLON

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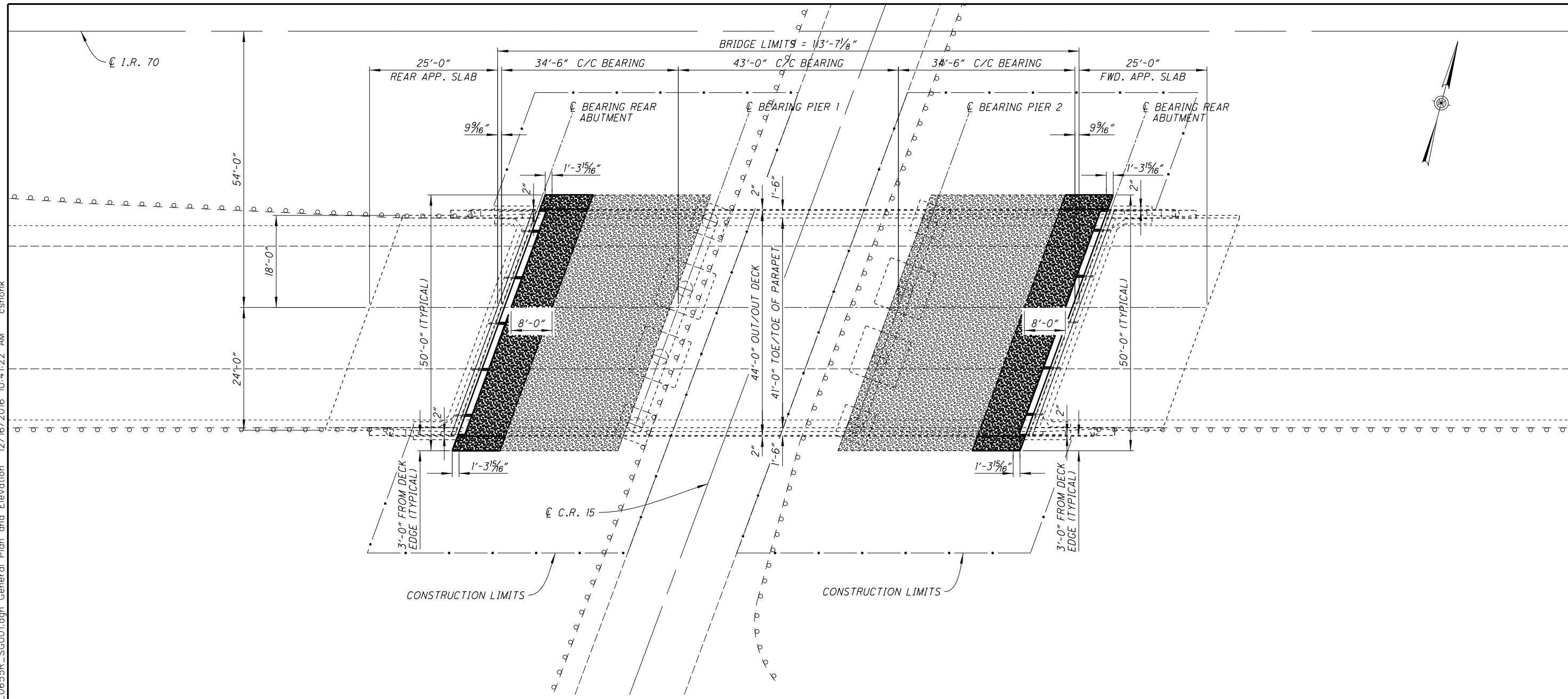
GENERAL NOTES

GUE-70-6.55

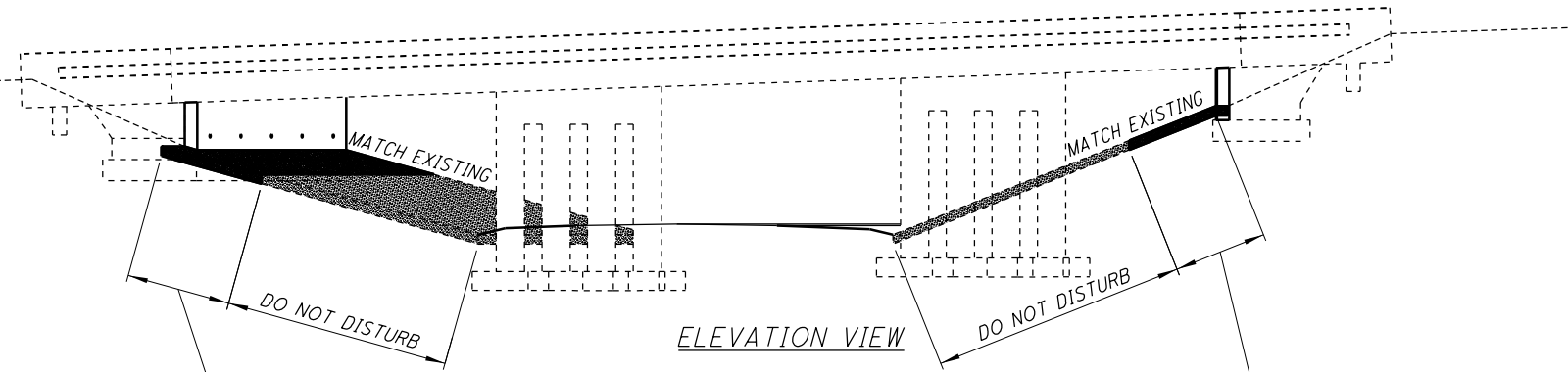
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PLAN VIEW



ELEVATION VIEW

EXISTING STRUCTURE	
TYPE:	CONTINUOUS REINFORCED CONCRETE SLAB DECK, WITH REINFORCED CONCRETE SUBSTRUCTURE
SPANS:	34'-6", 43'-0", 34'-6" C/C BEARINGS
ROADWAY:	41'-0" TOE/TOE PARAPETS
LOADING:	CF-2000 AASHO ALT.
SKEW:	20°00'00" L.F.
APPROACH SLABS:	25'-0" (AS-1-81M)
ALIGNMENT:	TANGENT
CROWN:	NORMAL
STRUCTURAL FILE NUMBER:	3001059
DATE BUILT:	1963
DISPOSITION:	BRIDGE REPAIR

REHABILITATED STRUCTURE	
TYPE:	CONTINUOUS REINFORCED CONCRETE SLAB DECK, WITH REINFORCED CONCRETE SUBSTRUCTURE
SPANS:	34'-6", 43'-0", 34'-6" C/C BEARINGS
ROADWAY:	41'-0" TOE/TOE PARAPETS
LOADING:	CF-2000 AASHO ALT.
SKEW:	20°00'00" L.F.
APPROACH SLABS:	25'-0" (AS-1-81M)
ALIGNMENT:	TANGENT
CROWN:	NORMAL
STRUCTURAL FILE NUMBER:	3001059
COORDINATES: LATITUDE:	40.0084340°
LONGITUDE:	-81.6158390°

DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5		
DATE	12/19/2016		
REVIEWED	CPS		
DRAWN	CPS		
DESIGNED	TAG		
CHECKED	JDR		
STRUCTURE FILE NUMBER	3001059		
GENERAL PLAN & ELEVATION			
BRIDGE NO. GUE-70-0655 (RIGHT BRIDGE) OVER C.R. 15			
PID No.	93267		
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4			
8			

**STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:**

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:  
N/A DATED: N/A

AND THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:  
800 DATED: 01-20-17  
832 DATED: 01-17-14

**DESIGN SPECIFICATIONS**

THIS STRUCTURE CONFORMS TO THE "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION (2002), AND THE ODOT BRIDGE DESIGN MANUAL, 2004.

**EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02, AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUBSTRUCTURE)**

THERE SHALL BE NO SAWCUTS BELOW THE TOP OF EXISTING FOOTER ELEVATIONS AT ANY LOCATION EXCEPT AS DETAILED IN THE PLAN OR AS DIRECTED BY THE ENGINEER. ALL CONCRETE REMOVED FROM THE SAWCUT DOWN TO THE TOP OF FOOTER SHALL BE REMOVED BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. NO REMOVALS SHALL BE DEEPER THAN 6" FROM THE FACE OF THE EXISTING ABUTMENTS OR BEYOND THE ASSUMED EXISTING  $\phi$  BEARING AS SHOWN IN THE ABUTMENT DETAILS. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

**CUT LINE AND CONSTRUCTION JOINT(S) PREPARATION**

FOR ABUTMENT BACKWALL REMOVALS SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

**ITEM 511 - CONCRETE, MISC.: PUMPED SELF CONSOLIDATING CONCRETE**

IN ADDITION TO THE WORK ITEMS REQUIRED IN 511, THIS ITEM WILL INCLUDE THE DEVELOPMENT, DELIVERY AND PLACEMENT OF A CLASS QC2 SELF CONSOLIDATING CONCRETE MIX DESIGN AS DESCRIBED IN THE FOLLOWING NOTE:

PROVIDE A CONCRETE MIX WITH THE FOLLOWING PROPERTIES:

SELF-CONSOLIDATING CONCRETE (SCC): WHEN REQUIRED IN THE DESIGN PLANS OR APPROVED BY THE ENGINEER, PROVIDE AN SCC MIX WITH AGGREGATE GRADATIONS WITHIN ZONE II OF THE COARSENESS FACTOR CHART THAT IS FLOWABLE, NON-SEGREGATING CONCRETE THAT CAN SPREAD INTO PLACE, FILL THE FORMWORK, AND ENCAPSULATE THE REINFORCEMENT WITHOUT MECHANICAL CONSOLIDATION. INCREASING THE AMOUNT OF AN APPROVED 705.12 (SCC) ADMIXTURE OF AN APPROVED JMF TO ACHIEVE THE DESIRED CONSISTENCY; RE-PROPORTIONING THE AGGREGATES WITHIN ZONE II; ADDING CEMENTITIOUS MATERIAL; AND INCLUDING A VISCOSITY MODIFYING ADMIXTURE (VMA) ARE ACCEPTABLE METHODS OF IMPROVING THE STABILITY OF THE MIX. A NEW MIX DESIGN IS NOT REQUIRED.

SLUMP REQUIREMENTS OF TABLE 499.04-1 DO NOT APPLY.

ESTABLISH QUALITY CONTROL PROCEDURES IN THE QUALITY CONTROL PLAN FOR SCC CONCRETE. SET THE TARGET SLUMP FLOW FOR THE MIX AND MAINTAIN THE FLOW WITHIN  $\pm 2$  INCHES. VISUALLY INSPECT THE STABILITY OF THE MIX TO ENSURE THAT THERE IS NO AGGREGATE PILE IN THE MIDDLE OF, NOR MORTAR HALO IN EXCESS OF  $\frac{1}{2}$  INCH ON THE LEADING EDGE OF THE SLUMP FLOW TEST PILE. TEST THE SLUMP FLOW ACCORDING TO ASTM C1611.

GRADATION:

PROVIDE A WELL-GRADED CONCRETE MIX BY MAINTAINING THE GRADATION OF THE COMBINATION OF AGGREGATES WITHIN ZONE II (OPTIMAL) OF THE COARSENESS FACTOR CHART (FIGURE 1) AS DEFINED IN THE COMPASS OR EQUAL SOFTWARE. USE A 1 INCH NOMINAL MAXIMUM SIZE AGGREGATE. ENSURE THAT THE DESIGN YIELD IS 27.0 CU. FT.

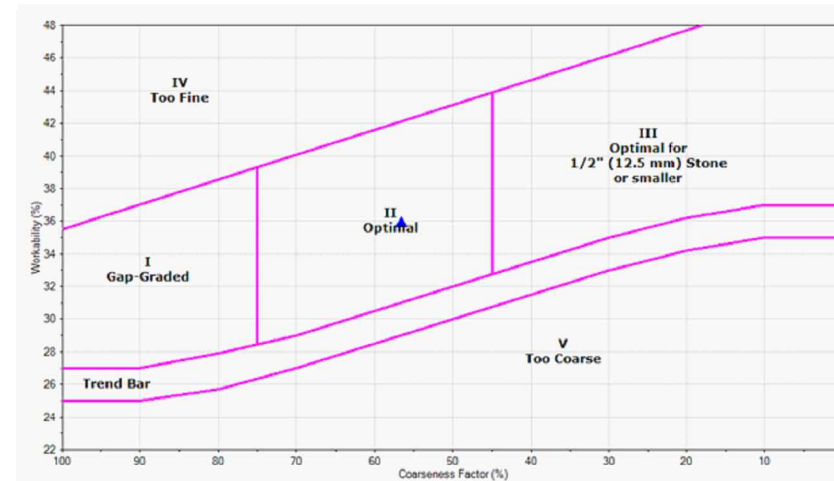


FIGURE 1- COARSENESS FACTOR CHART

USE THE FOLLOWING SIEVE SIZES TO DETERMINE THE GRADATION OF THE AGGREGATES:

- 1 1/2 INCH # 8
- 1 INCH # 16
- 3/4 INCH # 30
- 1/2 INCH # 50
- 3/8 INCH # 100
- #4 # 200

IN THE CHART: WORKABILITY FACTOR (%) REFERS TO THE PERCENT OF THE COMBINED AGGREGATE THAT PASSES THE NO. 8 SIEVE. COARSENESS FACTOR (%) REFERS TO THE PERCENT OF THE COMBINED AGGREGATE THAT IS RETAINED ON THE NO. 8 SIEVE THAT IS ALSO RETAINED ON THE 3/8 IN. SIEVE. THE CHART IS BASED ON A CEMENT CONTENT OF 564 LBS /CU.YD. ADJUST TO WORKABILITY PROPORTIONATELY AND DIRECTLY BY 2.5% PER 94 LBS. OF CEMENT WHEN USING EITHER LESS OR MORE. ENSURE THAT THE CONCRETE MIX DESIGN IS WORKABLE AND FINISHABLE DURING THE TRIAL PROCESS. WHEN THE MIX IS DETERMINED TO HAVE ISSUES RELATING TO WORKABILITY OR FINISHABILITY IN THE FIELD, THE DEPARTMENT MAY RESCIND THE MIX DESIGN ACCEPTANCE.

**ITEM 511 - CONCRETE, MISC.: PUMPED SELF CONSOLIDATING CONCRETE (CONTINUED)**

ADDITIONALLY, PROVIDE A CONCRETE MIX AT A SLUMP THAT ALLOWS THE CONCRETE MIX TO BE PUMPED THROUGH AN ACCESS HOLE(S) IN THE FACE OF A VERTICAL FORM(S), SELF CONSOLIDATED, AND THEN PRESSURIZED, FILLING THE FORMWORK TIGHT TO THE UNDERSIDE OF THE DECK SLAB OR DIAPHRAGM.

SUBMIT THE MIX DESIGN AND TEST RESULTS TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.

ACCESS HOLES MAY BE PROVIDED AT A MINIMUM SPACING OF 6 FEET. USE THE ACCESS HOLES TO DELIVER THE CONCRETE. IF MULTIPLE ACCESS HOLES ARE UTILIZED, THOSE NOT USED FOR FINAL CONCRETE DELIVERY SHALL BE BLOCKED PRIOR TO PRESSURE FILLING THE UPPER PORTION OF THE FORMWORK. DRILL 1" BREATHING/MONITORING HOLES IN THE VERTICAL FORMS WITHIN 6 INCHES OF THE TOP OF THE FORMS (BOTTOM OF THE DECK) SPACED BETWEEN 3 AND 5 FEET AND ELSEWHERE THROUGHOUT THE FORMWORK AS DIRECTED BY THE ENGINEER.

PUMP THE CONCRETE INTO THE FORMS UNTIL FULL AND ALL AIR VOIDS ARE DETERMINED TO HAVE BEEN ELIMINATED. THE ENGINEER WILL USE THE 1 INCH BREATHING/MONITORING HOLES DRILLED INTO THE VERTICAL FORMS TO DETERMINE WHEN THE AIR VOIDS HAVE BEEN ELIMINATED, (I.E. WHEN CONCRETE SEEPS FROM THE BREATHING/MONITORING HOLES).

ASSURE THE CONCRETE HAS COMPLETELY FILLED THE FORMS UP TO THE BOTTOM OF THE DECK BEFORE MOVING OPERATIONS TO ANOTHER POUR. USE VIBRATION EQUIPMENT TO HELP CONSOLIDATE THE CONCRETE MIX.

THE CONTRACTOR SHALL PROVIDE FORMWORK TO WITHSTAND THE PRESSURE REQUIRED TO PLACE CONCRETE BY THIS PUMPING/PRESSURIZATION METHOD.

DURING THE CONCRETE OPERATIONS, ASSURE THE REPRESENTATIVES OF THE READY MIX PRODUCER AND THE CHEMICAL ADMIXTURE MANUFACTURER ARE ON SITE TO DETERMINE ANY ADJUSTMENTS REQUIRED TO COMPLETE THE CONCRETE PLACEMENT.

WHEN THE FORMWORK IS REMOVED, THE PROJECT ENGINEER WILL DETERMINE IF THE NEW CONCRETE IS FLUSH WITH THE UNDERSIDE OF THE CONCRETE ABOVE. IF THERE ARE VOIDS FOUND BETWEEN THE NEW CONCRETE AND THE UNDERSIDE OF THE CONCRETE ABOVE, THEN THE CONTRACTOR WILL PRESSURE GROUT THE VOIDS UNTIL ALL MATERIAL IS FOUND TO BE IN CONTACT WITH ONE ANOTHER. THE GROUT MATERIAL WILL ACHIEVE AT LEAST 4000 PSI IN 7 DAYS AND CONSIST OF CEMENT AND SAND MEETING ODOT MATERIALS SPECIFICATIONS.

A PROPOSED FORM PUMPING SYSTEM MEETING ALL REQUIREMENTS OF THIS ITEM MUST BE SUBMITTED AND ACCEPTED BY THE PROJECT ENGINEER PRIOR TO THE INSTALLATION OF ANY FORMWORK. A TEST AREA ON THE FIRST BRIDGE ABUTMENT TO BE DONE SHALL BE USED TO DETERMINE THE PERFORMANCE OF THE PROPOSED PUMPING SYSTEM. UPON COMPLETING THE TEST SECTION, THE PROJECT ENGINEER SHALL INSPECT THE AREA FOR THE PRESENCE OF AIR VOIDS TO ENSURE THAT ALL AREAS ARE FILLED. UPON APPROVAL OF THE TEST AREA BY THE PROJECT ENGINEER, THE CONTRACTOR MAY USE THE APPROVED FORM PUMPING SYSTEM.

ALL PROPOSED CONCRETE WORK IS TO BE PERFORMED FROM BENEATH THE STRUCTURE.

ALL EXISTING 4" DIAMETER WEEP HOLES SHALL BE MAINTAINED (EXTENDED) AS SHOWN IN THE ABUTMENT DETAILS. ALL FORMWORK/WORK NECESSARY AS DESCRIBED ABOVE SHALL BE INCIDENTAL TO ITEM 511.

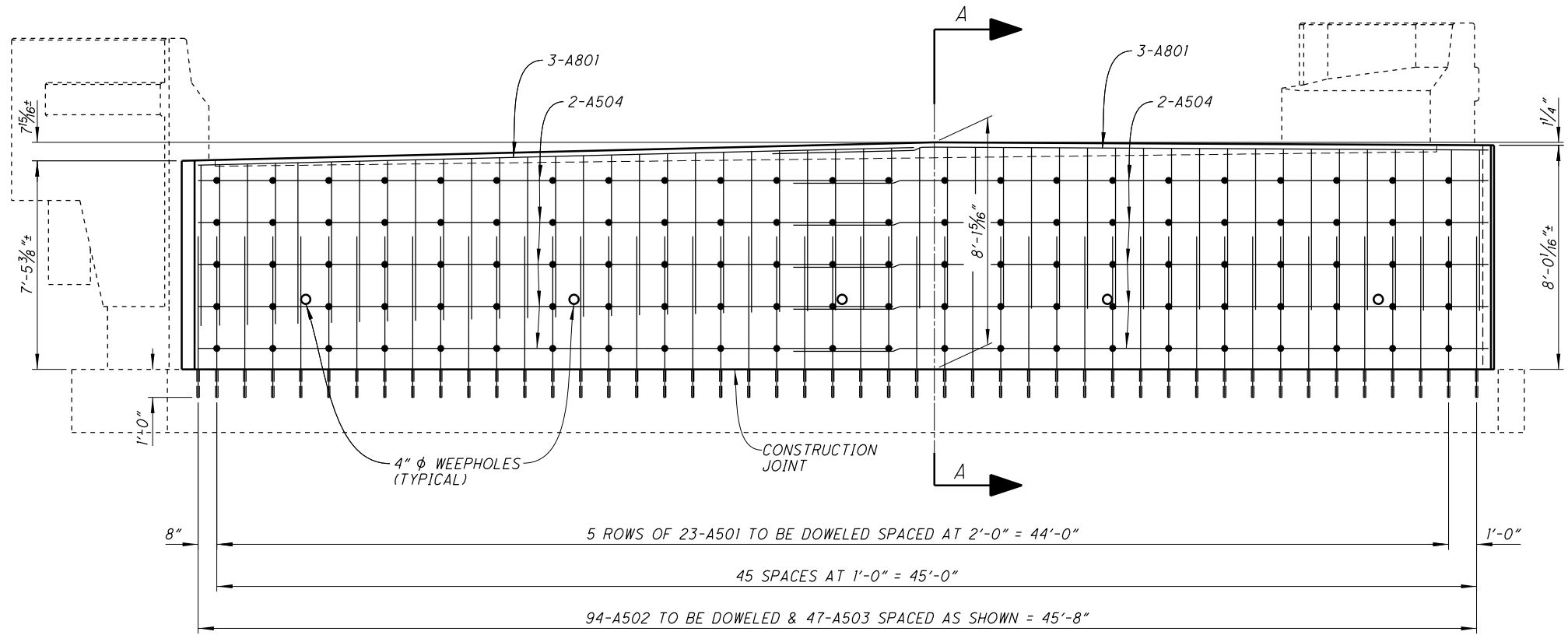
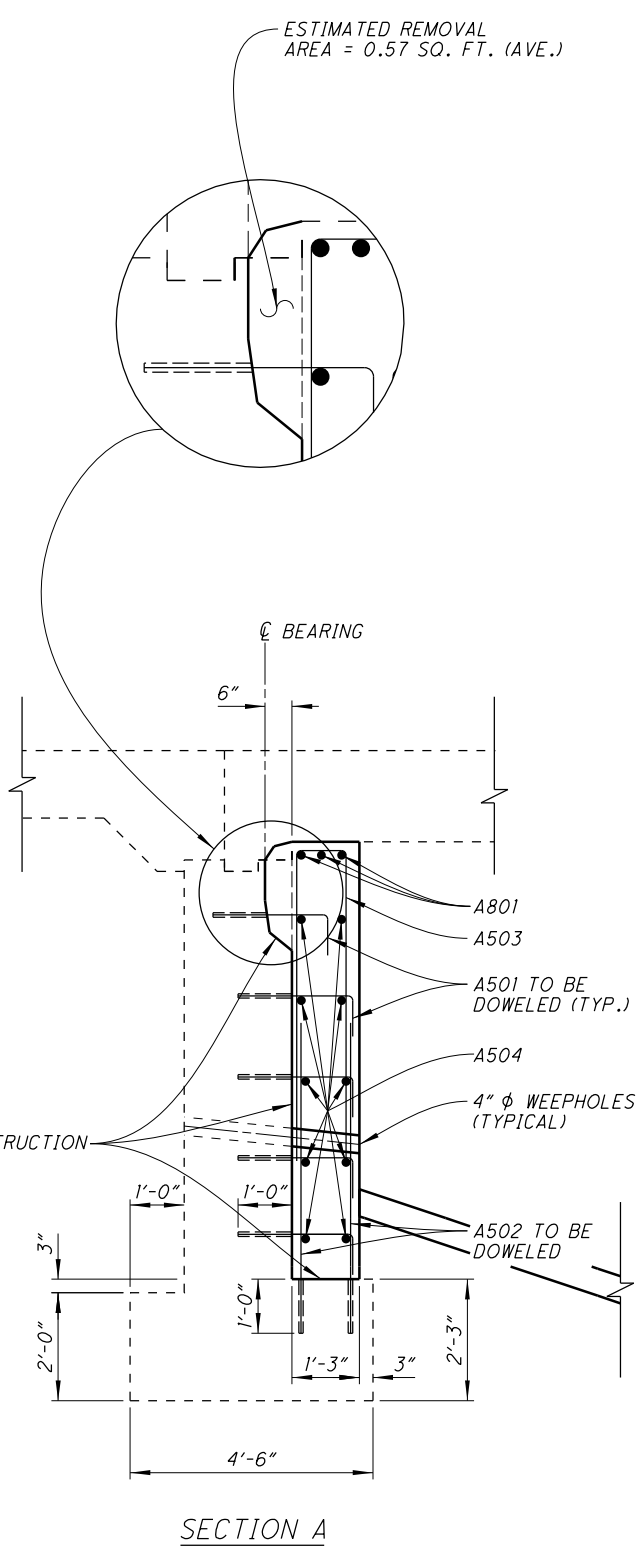
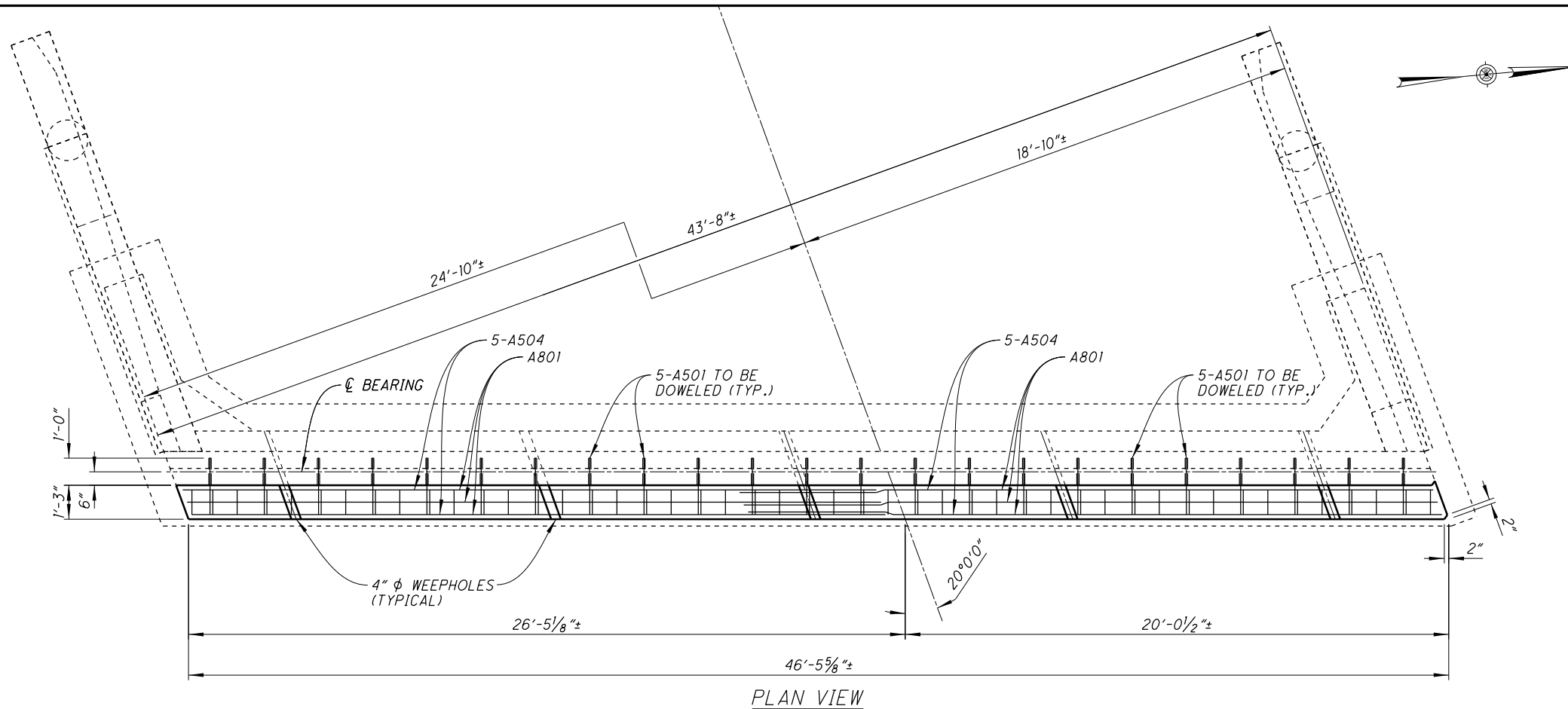
THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITY OF CUBIC YARDS.

PAYMENT WILL INCLUDE FORMWORK, DEVELOPMENT AND PLACEMENT OF THE SELF CONSOLIDATING CONCRETE MIX, PRESSURE GROUTING, EXCAVATION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS ITEM.

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<b>BRIDGE NOTES</b>	BRIDGE NO. GUE-70-0655 (RIGHT BRIDGE)	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
GUE-70-6.55	PID No. 93267	DATE 12/19/2016
8	5	REVIEWED CPS
8	5	DRAIN CPS
8	5	DESIGNED TAG
8	5	CHECKED JDR
8	5	STRUCTURE FILE NUMBER 3001059

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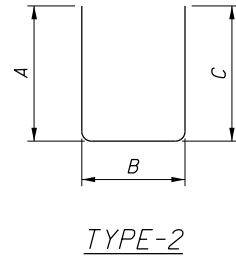
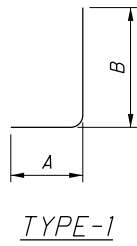
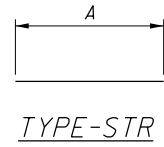


	DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5	
	REVIEWED	DATE	12/19/2016
DRAWN	CPS	STRUCTURE FILE NUMBER	3001059
DESIGNED	TAG	CHECKED	JDR
<b>REAR ABUTMENT</b> BRIDGE NO. GUE-70-0655 (RIGHT BRIDGE) OVER C.R. 15			
<b>GUE-70-6.55</b> PID No. 93267			



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MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL				A	B	C	D	E	R
<i>REAR ABUTMENT (RIGHT BRIDGE)</i>										
A501	115	2'-10"	340	1	0'-10"	2'-1"				
A502	94	5'-9"	564	STR.	5'-9"					
A503	47	12'-2"	596	2	5'-9"	0'-11"	5'-9"			
A504	20	24'-10"	518	STR.	24'-10"					
A505	** NOT USED ON REAR ABUTMENT **									
A801	6	25'-7"	410	STR.	25'-7"					
<i>REAR ABUTMENT SUB-TOTAL</i>			2,428							
<i>FORWARD ABUTMENT (RIGHT BRIDGE)</i>										
A501	92	2'-10"	272	1	0'-10"	2'-1"				
A502	94	5'-9"	564	STR.	5'-9"					
A503	** NOT USED ON FORWARD ABUTMENT **									
A504	16	24'-10"	414	STR.	24'-10"					
A505	47	10'-2"	498	2	4'-9"	0'-11"	4'-9"			
A801	6	25'-7"	410	STR.	25'-7"					
<i>FORWARD ABUTMENT SUB-TOTAL</i>			2,158							
<i>REAR ABUTMENT SUB-TOTAL</i>			2,428							
<i>FORWARD ABUTMENT SUB-TOTAL</i>			2,158							
<i>RIGHT BRIDGE GRAND TOTAL</i>			4,586							



**GUE-70-6.55**  
PID No. 93267

**REINFORCING STEEL SCHEDULE**  
BRIDGE NO. GUE-70-0655 (RIGHT BRIDGE)  
OVER C.R. 15

DESIGNED  
TAG  
CHECKED  
JDR

DRAWN  
CPS  
REVISED

REVIEWED  
CPS 12/19/2016  
STRUCTURE FILE NUMBER  
3001059

DESIGN AGENCY  
OHIO DEPARTMENT OF  
TRANSPORTATION, DISTRICT 5