UNDERGROUND UTILITIES TWO WORKING DAYS BEFORE YOU DIG CALL 1-800-362-2764 (TOLL FREE) OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY

PLAN PREPARED BY: O.D.O.T.

DISTRICT 11

NEW PHILADELPHIA, OHIO

ENGINEERS SEAL:

GR-2.2M

10-21-97

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

HAS-250-1.06

MONROE TOWNSHIP HARRISON COUNTY

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PROJECT DESCRIPTION

IMPROVEMENT OF O.OI MILES OF U.S. 250 IN MONROE TOWNSHIP OF HARRISON COUNTY. THE EXISTING STRUCTURE HAS-250-0106 WILL BE RELINED WITH AN 18' x 10' CONCRETE BOX WITH MINIMAL ROADWAY APPROACH WORK TO INCLUDE GUARDRAIL.

2002 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECI-FICATIONS 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 AND THAT THE PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

STANDARD CONSTRUCTION DRAWINGS SPECIFICATIONS 802 7-19-02 TC-41.20 1-19-01 4-20-01 864 7-11-00 BP-3./ 7-28-00 TC-52.10 908 4-19-02 TC-52.20 4-20-01 4-19-02 MT-97.10 DM-1.1 10-18-02 7-19-02 MT-105.10 DM-4.3 7-19-02 MT-105.11 10-18-02 DW-4.4 7-19-02 10-18-02 MT-110.10 SPECIAL **PROVISIONS** GR-I.IM 10-21-97 GR-1.2M 1-3-96 NWP #3 MAINTENANCE 10-30-02 GR-2.IM 4-14-98

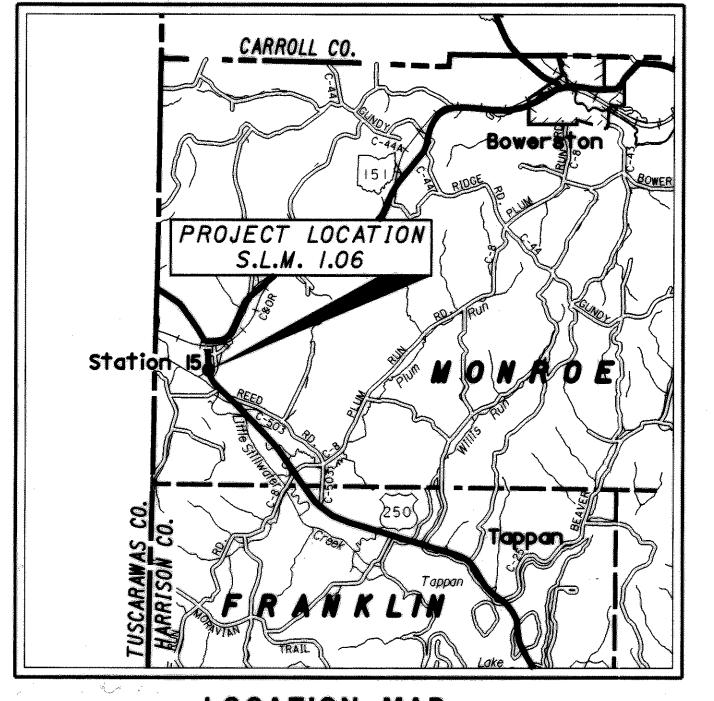
DATE 0-21-03 DISTRICT DEPUTY DIRECTOR

SUPPLEMENTAL

DATE Z-10-03 DIRECTOR, DEPARTMENT OF TRANSPORTATION

S

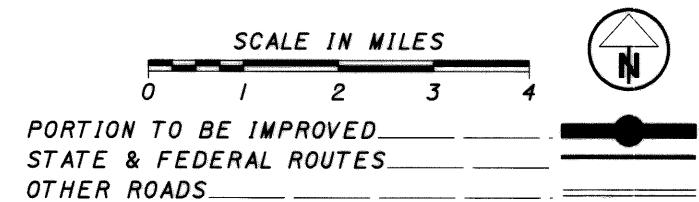
G 020(



LOCATION MAP

LATITUDE: N40°23'10"

LONGITUDE: W81º15'40"

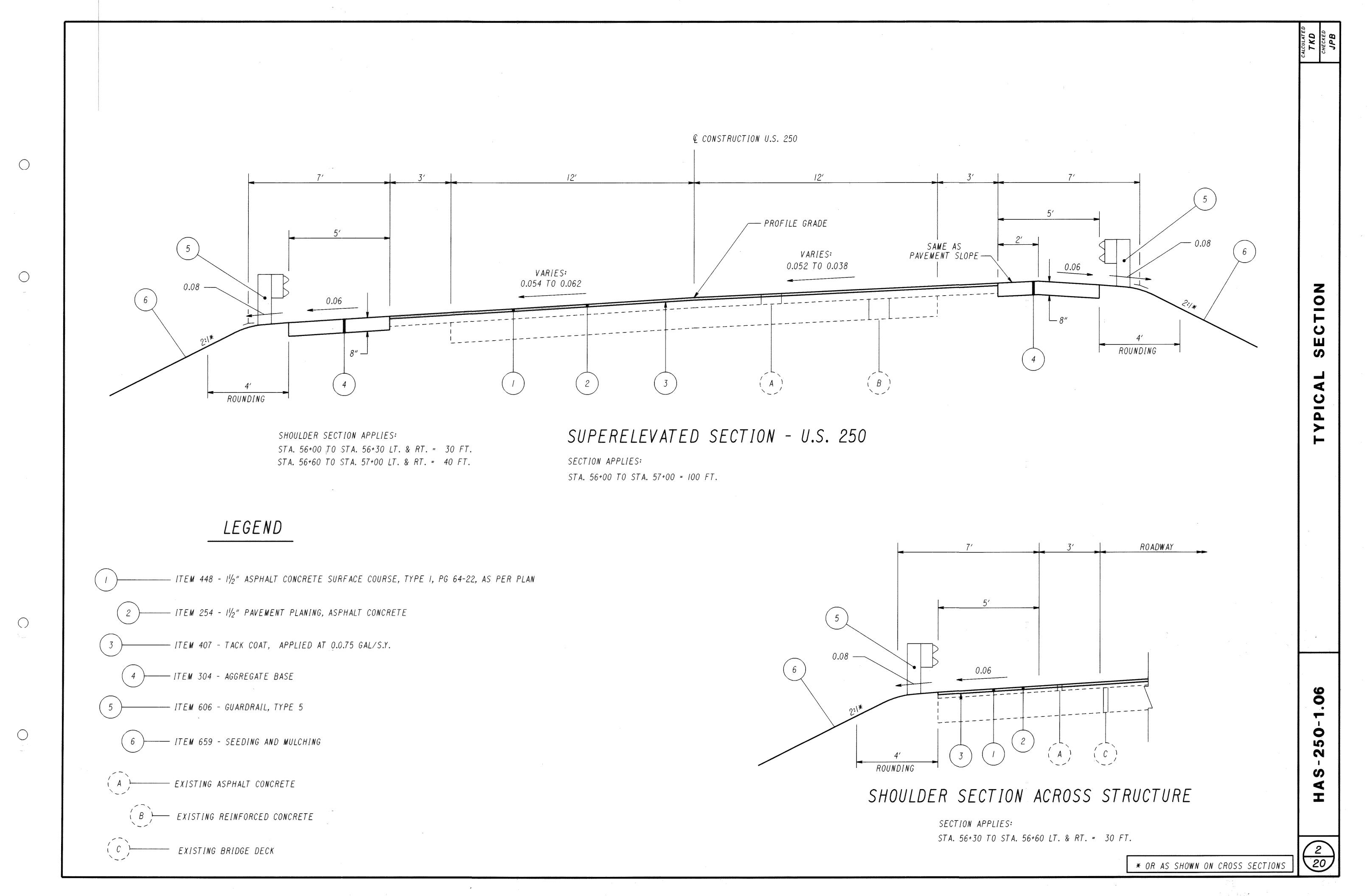


DESIGN DESIGNATION

CURRENT ADT (2003)	5500
DESIGN YEAR ADT (2023)	7500
DESIGN HOURLY VOLUME (2023)	750
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	28%
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH

DESIGN FUNCTIONAL CLASSIFICATION - RURAL ARTERIAL NHS PROJECT - YES

DESIGN EXCEPTION



CLEARING AND GRUBBING

All trees and stumps specifically marked for removal within the construction limits shall be removed under the lump sum bid for Item 201, Clearing and Grubbing. The following is an approximate estimate of the number of trees and stumps to be removed:

ELEVATION DATUM

All elevations are based on NAVD 1988 datum.

ROUNDING

The rounding at slope breakpoints shown on the Typical Sections apply to all cross sections even though otherwise shown.

UTILITIES

Listed below are all utilities located within the project construction limits together with their respective owners:

RESOURCE AMERICA, INC. 515 STILLWATER AVENUE DENNISON, Ohio 44621 740-922-4698

The location of the underground utilities shown on the plans are as obtained from the owners as required by O.R.C. Section 153.64.

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.

WORK LIMITS

The work limits shown on these plans are for physical construction only. The installation and operation of all temporary traffic control and temporary traffic control devices required by these plans shall be provided by the Contractor whether inside or outside these work limits.

CONVERSION OF STANDARD CONSTRUCTION DRAWINGS

The metric standard drawings referenced in this plan shall be converted to English units using the SI (Metric) to English conversion factors provided in section 109.02 of the 2002 Construction and Materials Specifications. Conversions shall be appropriately precise and shall reflect standard industry English values where suitable.

STREAM CHANNEL EXCAVATION

The Contractor shall take all precautions necessary to prevent any incidental discharges associated with the excavation and hauling of material from the stream channel. This pertains to any excavation operations such as foundation pier or abutment excavation, channel cleanout, excavation for rock channel protection, and removal of any temporary fill associated with construction operations.

DEMOLITION DEBRIS

The Contractor shall take precautions to avoid and/or limit demolition debris from entering the stream. Any material that does fall into the stream shall be removed as soon as possible.

INSTREAM WORK

Instream work will be limited where practicable and only clean, non-erodible material will be used for fords, cofferdams, or other equipment access pads. This temporary placed material will be removed and the stream bottom restored to near natural conditions when the work is completed.

CONSTRUCTION NOISE

Activities and land use adjacent to this project may be affected by construction noise. In order to minimize any adverse construction noise impacts, any power-operated construction-type device shall not be operated between the hours of 9 p.m. and 7 a.m. In addition, any such device shall not be operated at any time in such a manner that the noise created substantially exceeds the noise customarily and necessarily attendant to the reasonable and efficient performance of such equipment.

EROSION CONTROL

Item 601 is provided in the plans for erosion control. Rock of a stable nature shall not be removed in order to place this item. The Engineer shall check and non-perform quantities or adjust locations and quantities of this item where indicated by field conditions during construction.

SEEDING AND MULCHING

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.

NOTIFICATION OF WORK ZONE LANE RESTRICTIONS

The Contractor shall notify the Engineer at least eighteen (18) days prior to implementing any work zone restrictions that will reduce the width or vertical clearance of any lane on which traffic will be maintained during construction.

The Engineer shall immediately notify the District Roadway Services Manager to advise the Office of Highway Management of the restrictions.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

When it is necessary to splice proposed guardrail to existing guardrail, only the existing guardrail shall be cut, drilled, or punched. The connection shall be made using a "W-Beam Rail Splice" as shown in AASHTO M 180. Payment shall be included in the contract price for the respective guardrail items.

DRAIN CONNECTORS

All drains, which are encountered during construction, shall be provided with unobstructed outlets. Existing collectors which are located below the roadway ditch elevations, and which cross the roadway, shall be replaced within the construction limits by Item 603 Conduit, Type B, one commercial size larger than the existing conduit.

Existing collectors and isolated farm drains, which are encountered above the elevation of roadway ditches, shall be outletted into the roadway ditch by 603 Type F conduit. The optimum outlet elevation shall be 12" above the flowline elevation of the ditch. Lateral field tiles that cross the roadway shall be intercepted by 603, Type E conduit, and carried in a longitudinal direction to an adequate outlet or roadway crossing.

The location, type, size and grade of replacements shall be determined by the Engineer, and payment shall be made on final measurements.

Erosion control pads and animal guards shall be provided at the outlet end of all farm drains as per Standard Construction Drawing DM-1.1, except when they outlet into a drainage structure. Payment for the erosion control pads, animal guards, and any necessary bends or branches shall be included for payment in the pertinent conduit items.

The following estimated quantities have been included in the general summary for the work noted above:

Item	603,	15" Conduit, Type B	40 Ft.
Item	603,	6" Conduit, Type E	10 Ft.
I t e m	603,	4" Conduit, Type F	10 Ft.

ITEM 448 ASPHALT CONCRETE SURFACE COURSE TYPE I, PG64-22, AS PER PLAN

Material furnished for fine and coarse aggregates used in this item shall exclude all stone and crushed carbonate stone.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

The following estimated quantities are to be placed by the contractor with the Engineer's concurrence for temporary erosion and sediment control measures:

207, Construction Seeding and Mulching 40 Sq. Yd.

207. Perimeter Filter Fabric Fence 480 Ft.

207, Filter Fabric Ditch Check 150 Ft.

659, Repair Seeding and Mulching 100 Sq. Yd.

659, Commercial Fertilizer 0.01 Ton

ITEM 614 - MAINTAINING TRAFFIC

The Contractor shall maintain 2 lanes of traffic at all times in accordance with the requirements of Item 614. Traffic shall be maintained at all times by use of the existing pavement and existing bridge deck. Exceptions to requiring 2 lanes open are as follows:

- I.) The time necessary to off-load box sections from transportaion vehicles. (Setting the box sections to grade shall not interfere with traffic and should be accomplished from a position adjacent to the roadway.)
- 2.) Pavement planing and resurfacing operations and guardrail replacement.
- 3.) Pumping grout through the bridge deck.

Traffic shall be maintained for the above exceptions using flaggers and Std. Const. Dwa. MT-97.10.

The Contractor shall maintain permanent "Road Construction Ahead" (OW-128) signs and "End Construction" (OC-8) signs for each direction per Std. Const. Dwg. MT-97.10 throughout the duration of the project.

Length and duration of lane closures and restrictions shall be at the approval of the Engineer. It is the intent to minimize the impact to the traveling public. 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.

Access for local property owners shall be maintained at all times.

All existing lanes shall be open to traffic between November 15 and March 15. November 15 shall be considered to constitute an interim completion date, and liquidated damages shall be assessed according to Section 108.07 for each calendar day that all lanes are not open and available to traffic.

No work shall be performed, and all existing lanes shall be open to traffic, during the following designated holidays or events:

Memorial Day Fourth of July 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 event falls. The following schedule shall be used to determine this period:

Day of the Week: Time All Lanes Must Be Open to Traffic: 12:00 noon Friday through 12:00 noon Monday Sunday 12:00 noon Friday through 12:00 noon Tuesday Monday 12:00 noon Monday through 12:00 noon Wednesday Tuesday 12:00 noon Tuesday through 12:00 noon Thursday Wednesday 12:00 noon Wednesday through 12:00 noon Monday Thursday 12:00 noon Thursday through 12:00 noon Monday Friday 12:00 noon Friday through 12:00 noon Monday Saturday

No extensions of time shall be granted for delays in material deliveries, unless such delays are industry-wide, or for labor strikes, unless such strikes are area-wide.

Should the Contractor fail to meet any of these requirements, the Contractor shall be assessed liquidated damages in accordance with Section 108.07.

All work and traffic control devices shall be in acordance with 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 614, Maintaining Traffic, unless separately itemized in the plan.

TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE

Temporary orange plastic construction fence shall be placed as shown in the plan for the protection of pedestrian traffic. It is the responsibility of the Contractor to insure that the fence is in good condition and properly placed and maintained. The fence shall meet the requirements of Standard Drawing MT-110.10.

The following estimated quantity has been carried to the General Summary:

Item 607 - Fence Misc: Orange Plastic Construction Fence - - - 175 Ft.

SHEET NUMBER				ITEM	ITEM	GRAND	UNIT	DESCRIPTION	AS PER Plan Sheet				
	3	5					IIEM	EXT.	TOTAL	UNII	DESCRIPTION	SHEET NO.	CALCU
											ROADWAY		-
	1////0		· · · · · · · · · · · · · · · · · · ·				00/	11000	11110		OLEADINO AND ODUBDINO		
	LUMP	70	:				201	75100	LUMP	FT	CLEARING AND GRUBBING		-
		30					202	35/00	30		PIPE REMOVED, 24" AND UNDER		
		112.5 64					202	38000	112.5 64	FT FT	GUARDRAIL REMOVED BRIDGE RAILING REMOVED		
		04					202	38500	04	<i>F I</i>	BRIDGE RAILING REMOVED		
		467					203	10000	467	CU YD	EXCAVATION		
		58	. ~				203	20000	58	CU YD	EMBANKMENT		
		187.5					606	13000	187.5	FT	GUARDRAIL, TYPE 5		
		707.5					000	13000	101.5		GOANDRAIL, TITL 3		
	175						607	98000	175	FT	FENCE, MISC : ORANGE PLASTIC CONSTRUCTION FENCE		
							-				EROSION CONTROL		
										00 40			_
	40						207	10000	40	SQ YD	CONSTRUCTION SEEDING AND MULCHING		
	480 150						207 207	30100 30200	480 150	FT FT	PERIMETER FILTER FABRIC FENCE FILTER FABRIC DITCH CHECK		
	790						201	30200	130	<u> </u>	FILTER FABRIC DITCH CHECK		4
		144					601	32104	144	CU YD	ROCK CHANNEL PROTECTION, TYPE B WITH FABRIC FILTER		
		2					659	00100	2	EACH	SOIL ANALYSIS TEST		
		39		**************************************			659	00300	39	CU YD	TOPSOIL		
		351				.	659	10000	35/	SQ YD	SEEDING AND MULCHING		
	100			: :		<u> </u>	659	14000	100	SQ YD	REPAIR SEEDING AND MULCHING		
	0.01	0.05					659	20000	0.06		COMMERCIAL FERTILIZER		
		0./5					659	30000	0.15	TON	AGRICULTURAL LIME		
		2					659	35000	2	M GAL	WATER		
									-				
											DRAINAGE	- -	
	10						603	00406	10	FT	4" CONDUIT, TYPE F		
	10			F			603	01400	10		6" CONDUIT, TYPE E		
	40						603	05900	40	FT	15" CONDUIT, TYPE B		_
						<u> </u>					PAVEMENT		
		366					254	01000	366	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE		
		18					304	20000	/8	CU YD	AGGREGATE BASE		_
		28					407	10000	28	GALLON	TACK COAT		
		16					448	47021	16	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-22, AS PER		
											PLAN	3	The second secon
											TRAFFIC CONTROL		
		4					626	00100	4	EACH	BARRIER REFLECTOR, TYPE A		
													_
		0.04					642	00100	0.04	MILE	EDGE LINE, TYPE I		
		0.02					642	00300	0.02	MILE	CENTER LINE, TYPE I	<u> </u>	_
											STRUCTURES	<u></u>	
											FOR BRIDGE NO. HAS-250-0106, SEE SHEET NO. 12		
	LUMP						614	11000	LUMP		MAINTAINING TRAFFIC		-
							619	16000	4	MONTH	FIELD OFFICE, TYPE A		
			-				623	10000	LUMP		CONSTRUCTION LAYOUT STAKES		\rfloor
					 								- 1 /

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ITEM 448 - ASPHALT CONCRETE SURFACE COURSE TYPE I, PG 64-22, AS PER PLAN

STA. 56+00 TO STA. 57+00 100' x 30' x 1.5" ÷ 12 ÷ 27

= 13.88 Cu. Yd. (Use 14 Cu. Yd.)

SHOULDERS

STA. 56+30 TO STA. 56+60 Lt. & Rt.

 $30' \times 5' \times 1.5'' \div 12 \div 27 \times 2$ = 1.39 Cu. Yd. (Use 2 Cu. Yd.)

Total = 16 Cu. Yd.

ITEM 254 - 1/2" PAVENENT PLANING, ASPHALT CONCRETE

STA. 56+00 TO STA. 57+00

100' x 30' ÷ 9

= 333.33 Sq. Yd. (Use 333 Sq. Yd.)

<u>SHOULDERS</u>

STA. 56+30 TO STA. 56+60 Lt. & Rt.

30' x 5' ÷ 9 x 2

= 33.33 Sq. Yd. (Use 33 Sq. Yd.)

Total = 366 Sq. Yd.

ITEM 304 - AGGREGATE BASE

<u>SHOULDERS</u>

STA. 56+00 TO STA. 56+30 Lt. & Rt.

 $2 \times 30' \times 5' \times 8'' \div 12 \div 27 = 7.41 \text{ Cu. Yd.}$

(Use 8 Cu. Yd.)

STA. 56+60 TO STA. 57+00 Lt. & Rt.

 $2 \times 40' \times 5' \times 8'' \div 12 \div 27 = 9.88 \text{ Cu. Yd.}$

(Use 10 Cu. Yd.)

Total = 18 Cu. Yd.

ITEM 407 - TACK COAT

STA. 56+00 TO STA. 57+00 100' x 30' ÷ 9 x 0.075 Gal/Sq. Yd. = 25 Gal.

<u>SHOULDERS</u>

STA. 56+30 TO STA. 56+60 Lt. & Rt.

30' x 5' ÷ 9 x 0.075 Gal/Sq. Yd. x 2 = 2.5 Gal.

(Use 3 Gal.)

Total = 28 Gal.

ITEM 642 - EDGE LINE, TYPE I (WHITE)

STA. 56+00 TO STA. 57+00, LT. & RT. 2 x 100' ÷ 5280/mile = 0.04 Miles Use 0.04 Miles

ITEM 642 - CENTER LINE, TYPE I (DOUBLE YELLOW)

STA. 56+00 TO STA. 57+00, €

100' ÷ 5280'/mile = 0.02 Miles

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH FABRIC FILTER

Use 0.02 Miles

◆ 500.37 Sq. Ft. x 2.5 Ft. ÷ 27 = 46.33 Cu. Yd. (Inlet)

→ 709.28 Sq. Ft. x 2.5 Ft. ÷ 27 = 65.67 Cu. Yd. (Outlet)

 \bullet 72 Sq. Ft. x 3 Ft. Avg. ÷ 27 x 4 = 32 Cu. Yd. (Apron)

USE 144 Cu. Yd.

ITEN 659 - SOIL ANALYSIS TEST - 2 Each

ITEM 659 - TOPSOIL

351 Sq. Yd. x 4" ÷ 36 = 39 Cu. Yd. USE 39 Cu. Yd.

ITEM 659 - COMMERCIAL FERTILIZER

351 Sq. Yd. x 9 x 30 lbs/1000 Sq. Ft. x 1/2000 = 0.05 Ton

ITEM 659 - AGRICULTURAL LIME

351 Sq. Yd. x 9 x 92 Ibs/1000 Sq. Ft. x (1/2000) = 0.15 Ton

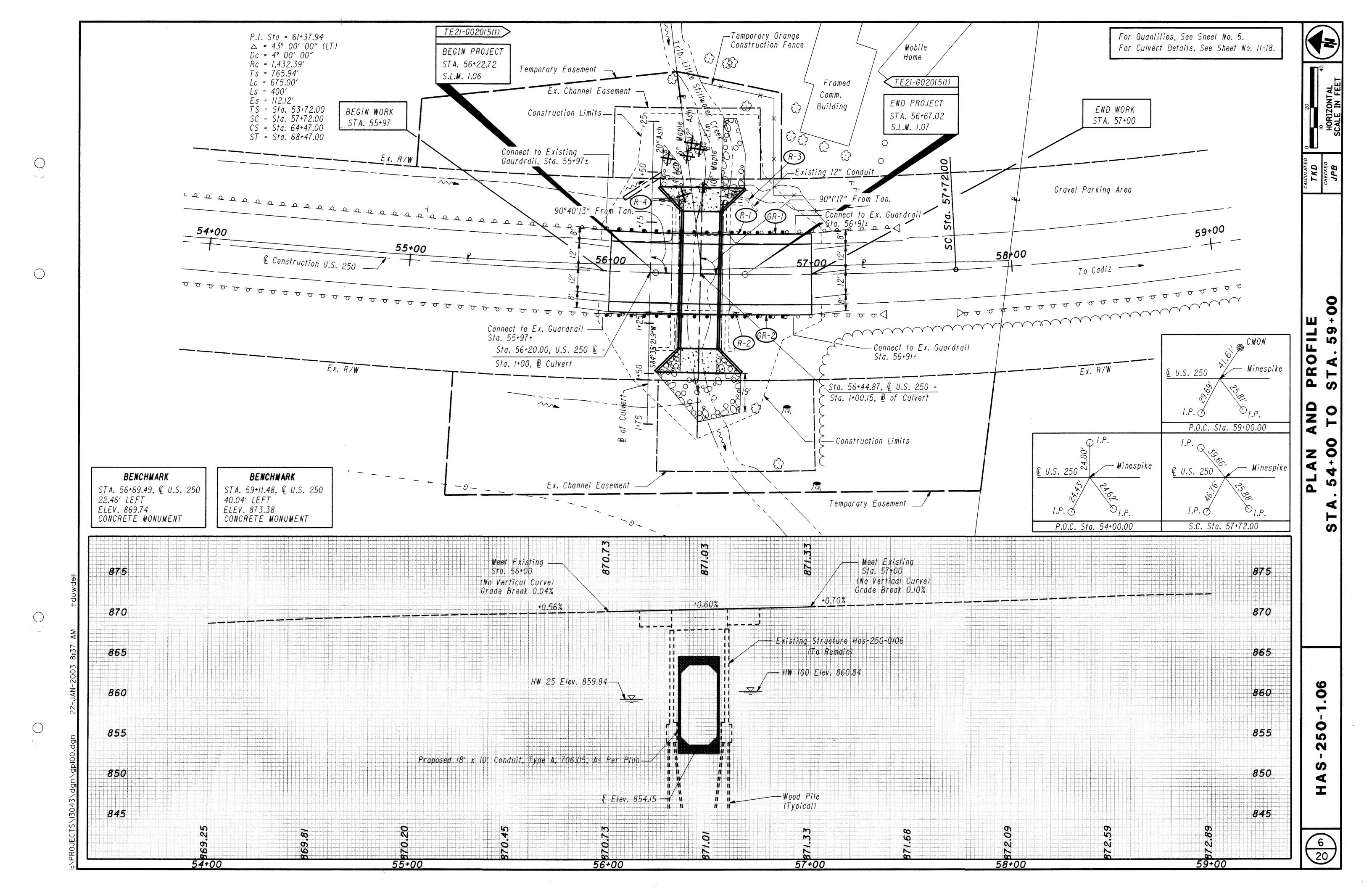
ITEM 659 - WATER

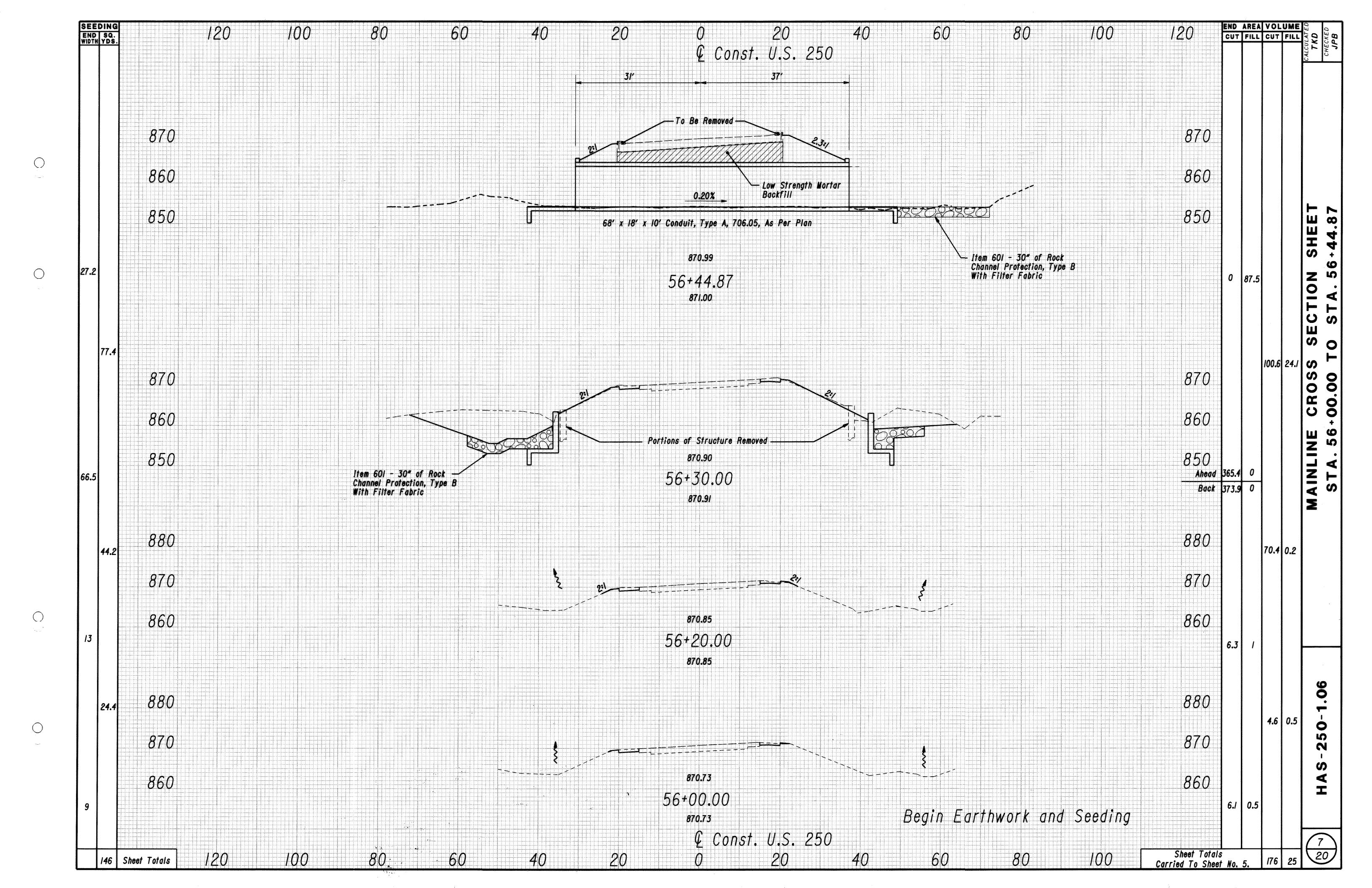
351 Sq. Yd. x 9 x 300 Gal/1000/1000 x 2 = 1.89 (USE 2 M Gal.)

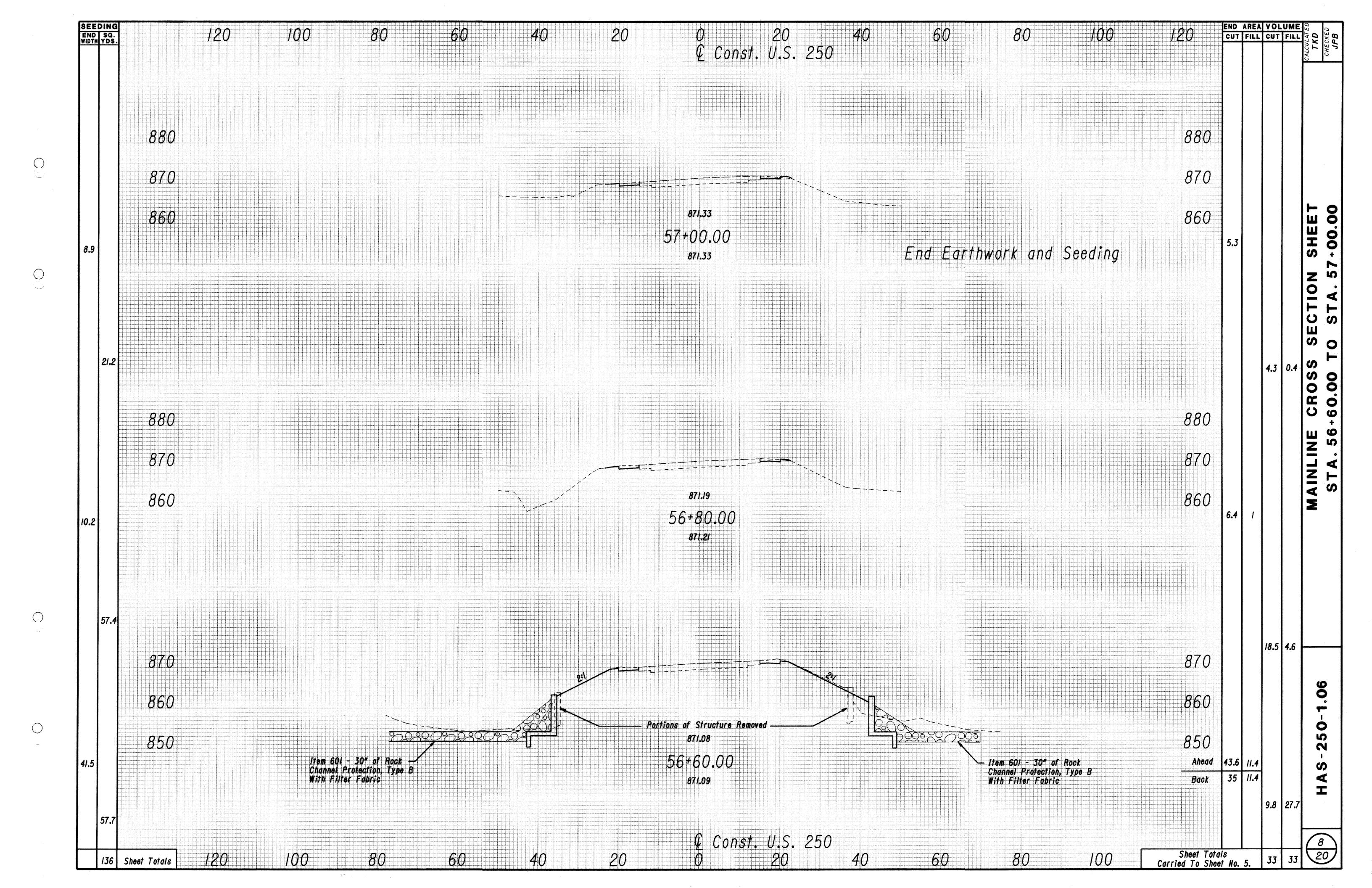
SEEDING AND EARTHWORK TABLE

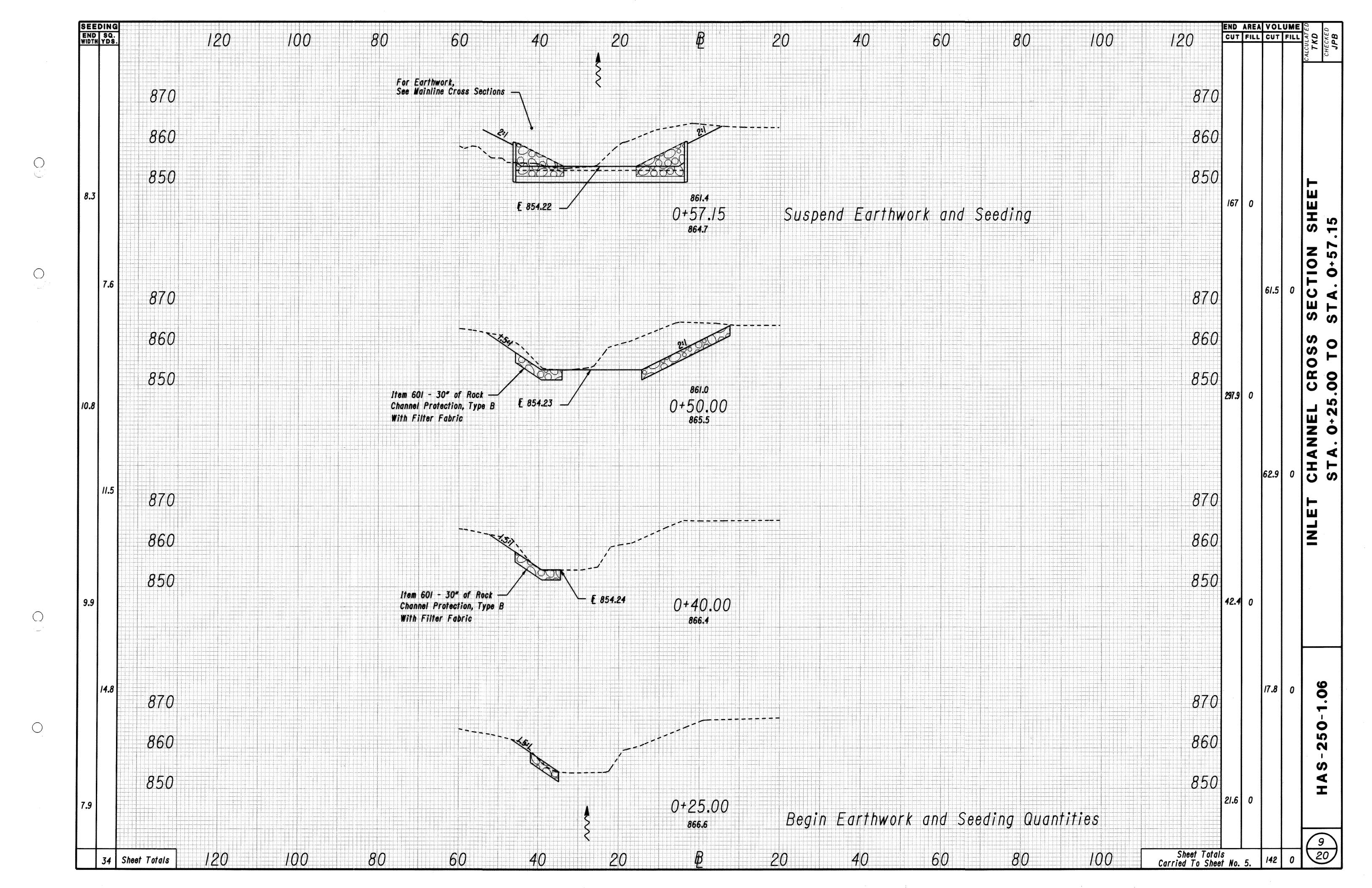
SHEET	659 SEEDING & MULCHING	203 EXCAVATION	203 EMBANKMENT.
	SQ. YD.	CU. YD.	CU. YD.
7	146	176	25
8	136	33	33
9	34	142	0
10	35	116	0
TOTAL	351	467	58

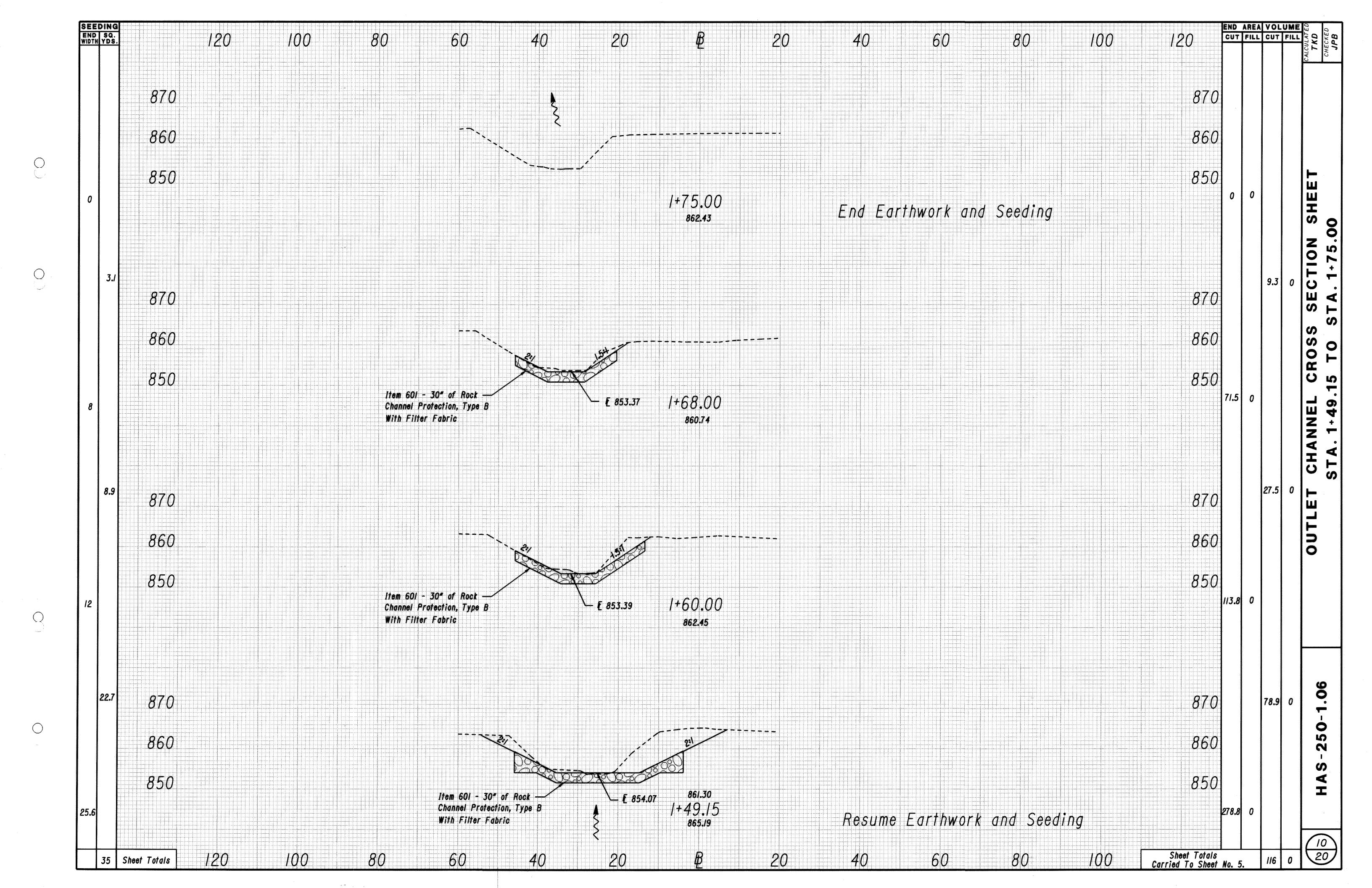
					202		606	626	
SHEET NO.	REF NO.	STATION TO STATION	SIDE	GUARDRAIL REMOVED	BRIDGE RAILING REMOVED	PIPE REMOVED 24" & UNDER	GUARDRAIL, TYPE 5	BARRIER REFLECTOR, TYPE A	
	:			FT	FT	FT	FT	EACH	
6	R-1	Sta. 55+97 To Sta. 56+9/	Lt.	56.25	<i>32</i>				
6	R-2	Sta. 55+97 To Sta. 56+91	Rt.	56.25	32				
6	R-3		Lt.			<i>1</i> 5			
6	R-4		Lt.			15			
6	GR-I	Sta. 55+97 To Sta. 56+91	Lt.				93.75	2	
6	GR-2	Sta. 55+97 To Sta. 56+91	Rt.				93.75	2	
						A./			0,0,0,0
	T	OTALS CARRIED TO GENERAL SUM!	MARY	112.5	64	30	187.5	4	

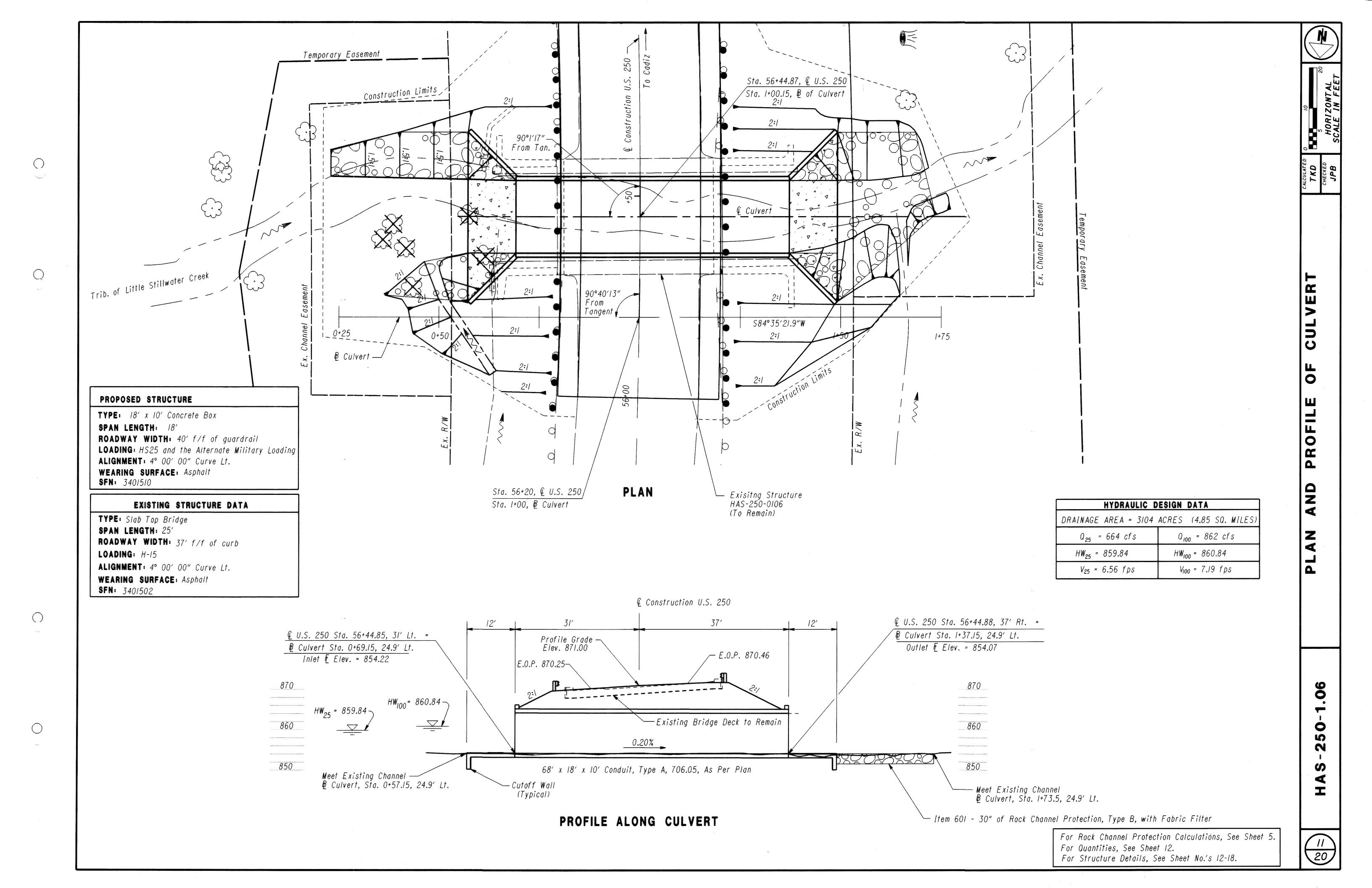












DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1996, INCLUDING THE INTERIM SPECIFICATIONS THROUGH 2002 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

HS25 AND THE ALTERNATE MILITARY LOADING.
FWS - 60 psf

DESIGN STRESSES:

CAST-IN-PLACE STRUCTURES
CONCRETE CLASS C - f'c = 4,000 psi SUBSTRUCTURE
REINFORCING STEEL - ASTM A6/5, A6/6, OR A6/7
Fy = 60,000 psi.

PRECAST STRUCTURES: FOR BOX AND PIPE CULVERTS SEE CMS SECTION 603.

COFFERDAMS, CRIBS, AND SHEETING

TEMPORARY SHORING SHALL BE USED TO ACCOMPLISH THE PROPOSED CONSTRUCTION IN STAGES. THE DESIGN OF THE TEMPORARY SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER, AND CONFORM WITH 501.05.

ITEM 503 - UNCLASSIFIED EXCAVATION

EXCAVATION LIMITS FOR THE PROPOSED STRUCTURE SHALL BE AS DEFINED IN 503. II. EXCAVATION OUTSIDE THESE LIMITS NECESSARY TO REMOVE THE EXISTING STRUCTURE SHALL BE INCLUDED IN 202 FOR PAYMENT.

ITEM 613 - LOW STRENGTH MORTAR BACKFILL, TYPE 2

LOW STRENGTH MORTAR BACKFILL SHALL BE PLACED AS SHOWN.
PAYMENT FOR LOW STRENGTH MORTAR BACKFILL SHALL BE MADE
ONLY FOR BACKFILL PLACED TO THE LIMITS SHOWN. THE EXCAVATION
REQUIRED FOR THE PLACEMENT OF THE LSM SHALL BE INCLUDED IN
ITEM 603 FOR PAYMENT.

ITEM 518 - POROUS BACKFILL WITH FILTER FABRIC

I'-6" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND 12" BELOW THE EMBANKMENT SURFACE TO A DEPTH OF 6" BELOW THE LOWEST WEEPHOLE FLOWLINE ELEVATION. GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6" ABOVE THE TOP ELEVATION OF THE WEEPHOLE.

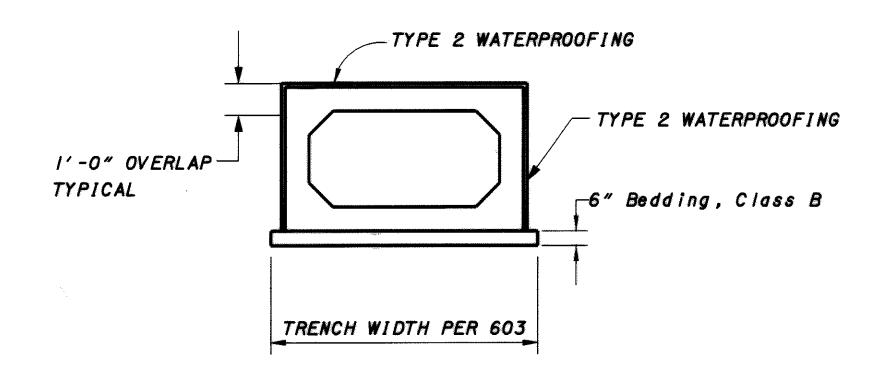
ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:

DESCRIPTION:
THIS WORK SHALL CONSIST OF THE REMOVAL OF CONCRETE
WINGWALLS AND PORTIONS OF THE ABUTMENT, FOOTING AND CURB.
CARE SHALL BE TAKEN DURING REMOVALS TO PROTECT
PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED
AND INCORPORATED INTO THE PROPOSED STRUCTURE. IN THIS
RESPECT, THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR
HOE RAM TYPE OF EQUIPMENT IS PROHIBITED.

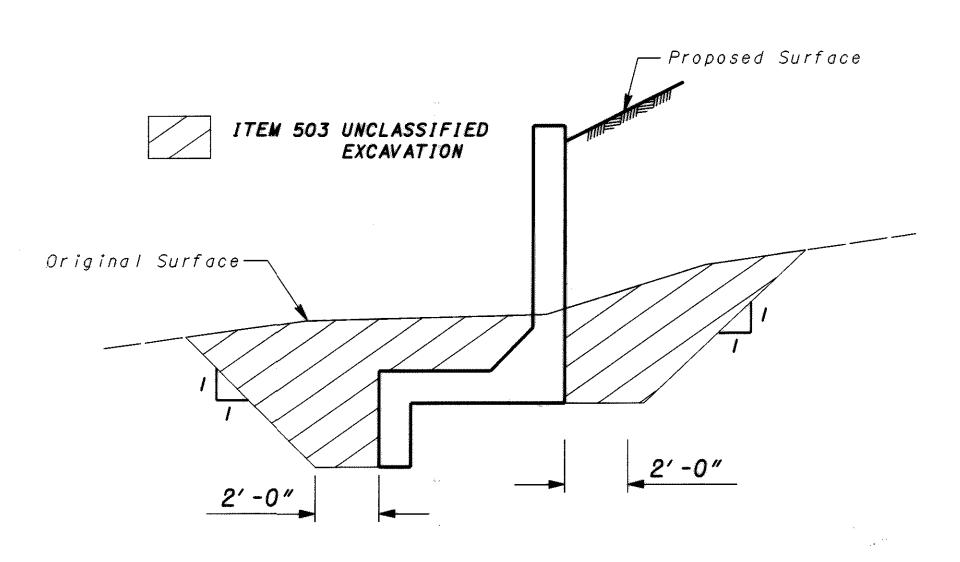
ITEM 603 - 4" CONDUIT, TYPE E, 707.45, AS PER PLAN

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ALL OF THE ITEMS (CONNECTORS, TEE FITTINGS, GROUT, ETC.)
NEEDED TO PERFORM THE WORK REQUIRED.

			EST! MA	TED QUANTITIES	SEE SHEET NO.
I T Ent M	ITEM EXT	TOTAL	UNIT	DESCRIPTION	
202	11201	LUMP		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	12
503 503	11100 21300	LUMP LUMP		COFFERDAMS, CRIBS, AND SHEETING UNCLASSIFIED EXCAVATION	
509	10000	7686	POUND	EPOXY COATED REINFORCING STEEL	
510	10000	54	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
5//	46200	63	CU. YD.	CLASS C CONCRETE	
5/2	33000	348	SQ. YD.	TYPE 2 WATERPROOFING	
5/8	21200	15	CU. YD.	POROUS BACKFILL WITH FILTER FABRIC	
603 603	0040 I 96485	180 68	FT. FT.	4" CONDUIT, TYPE E, 707.45, AS PER PLAN 18' X 10' CONDUIT, TYPE A, 706.05, AS PER PLAN	14
6/3	4/300	296	CU. YD.	LOW STRENGTH MORTAR BACKFILL (TYPE 2)	
864	10100	106	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	



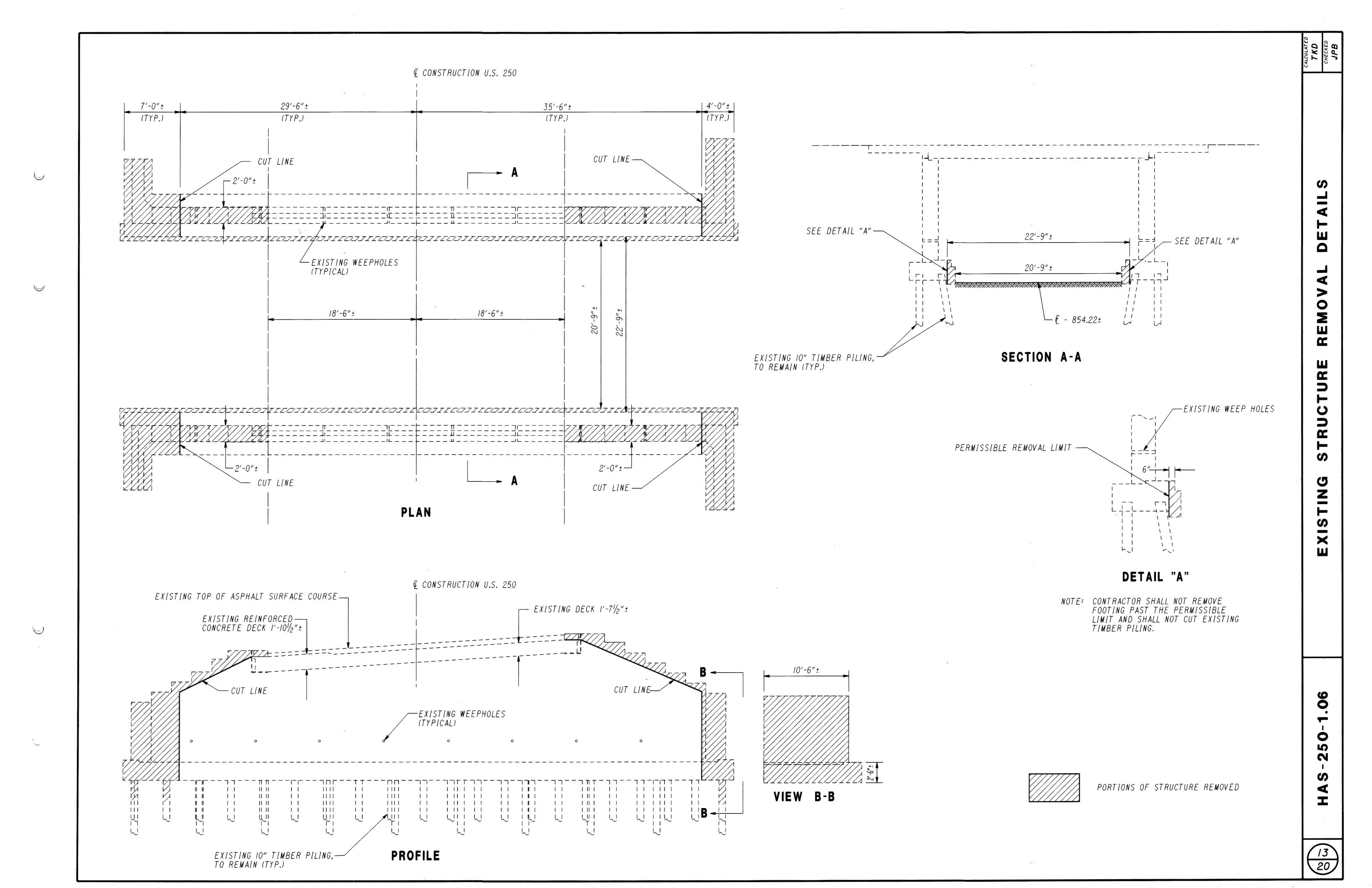
BOX CULVERT FOUNDATION

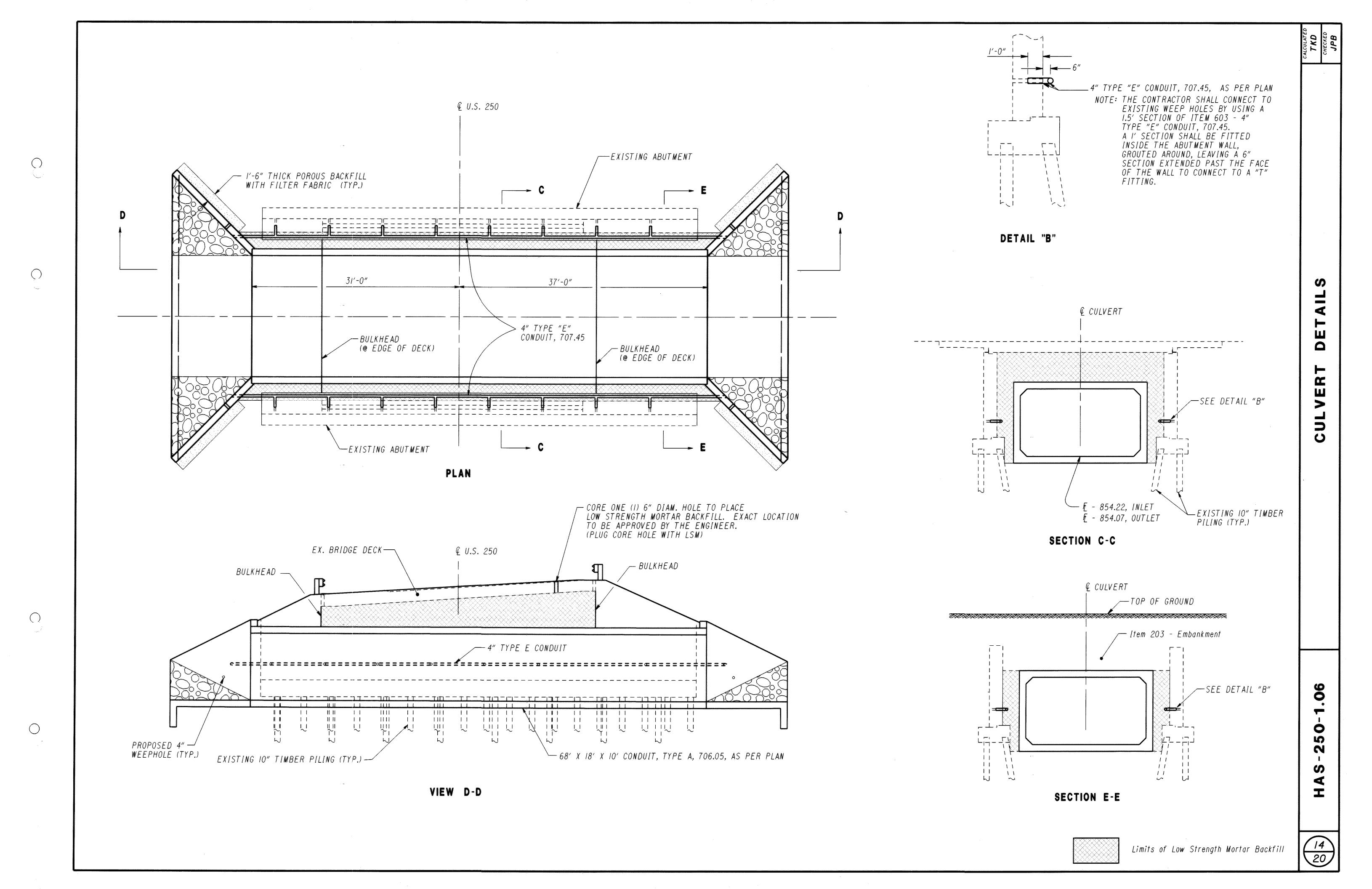


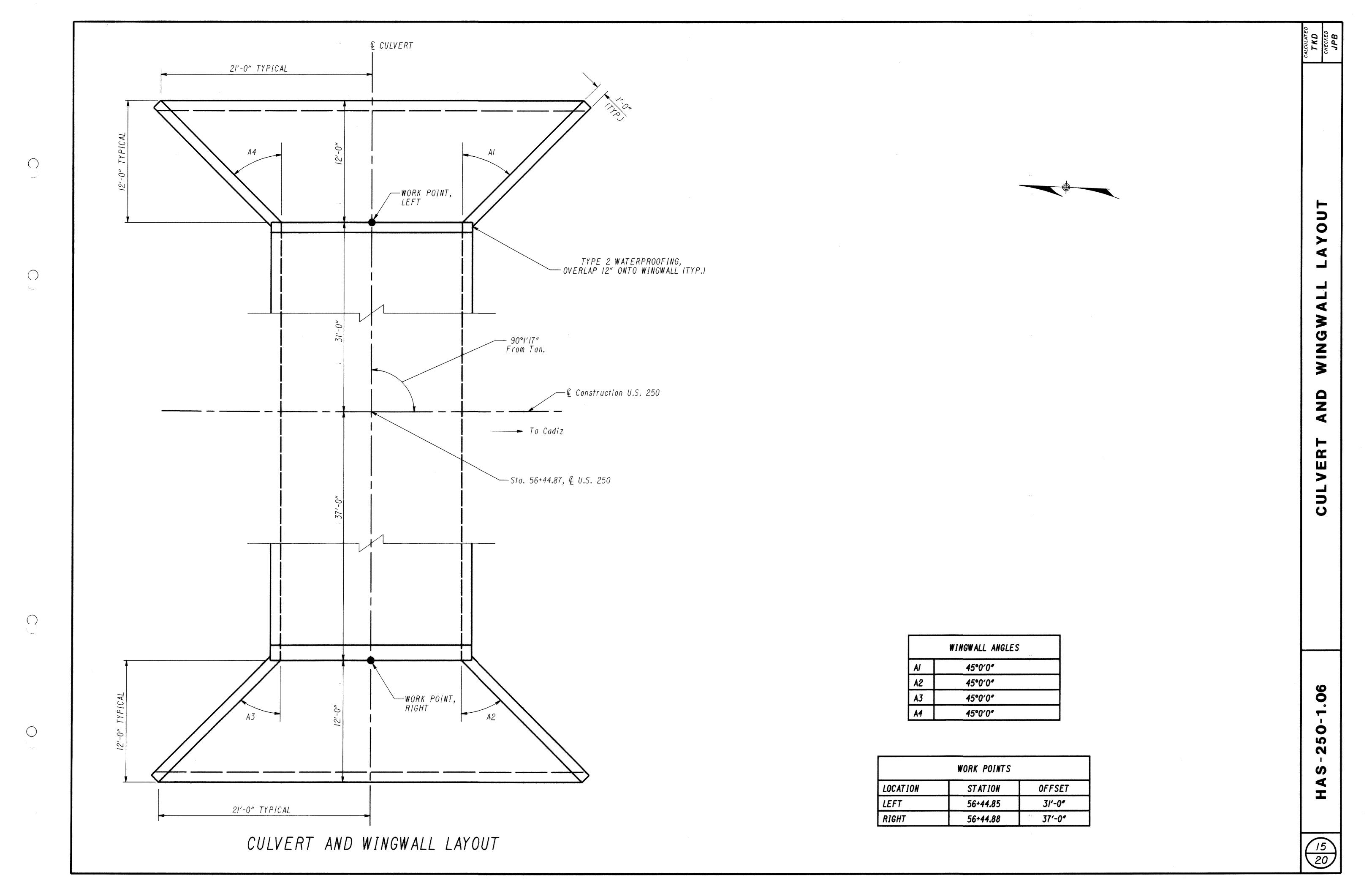
LIMITS OF UNCLASSIFIED EXCAVATION (APRONWALL)

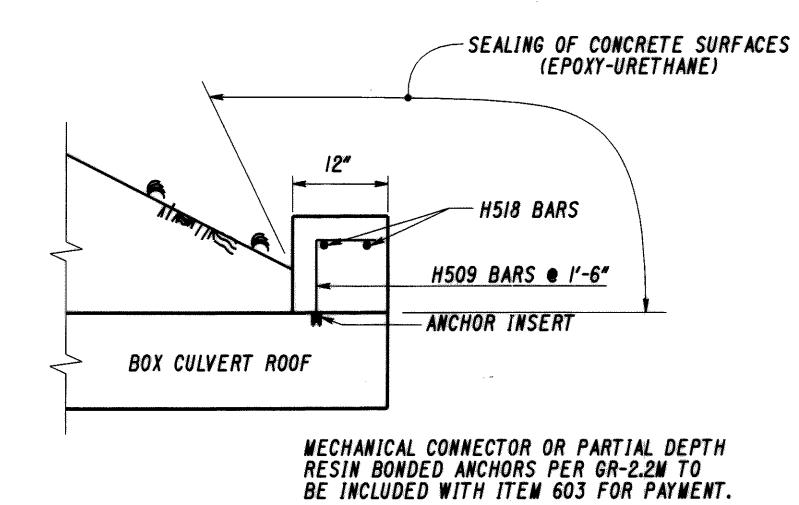
TKD CHECKED JPB

GENERAL NOTES & ESTIMATED QUANTITIE









BOX CULVERT BOTTOM CONCRETE APRON

9" 2'-0"

12"

HEADWALL REINFORCING DETAIL

14-H509 e 1'-6"

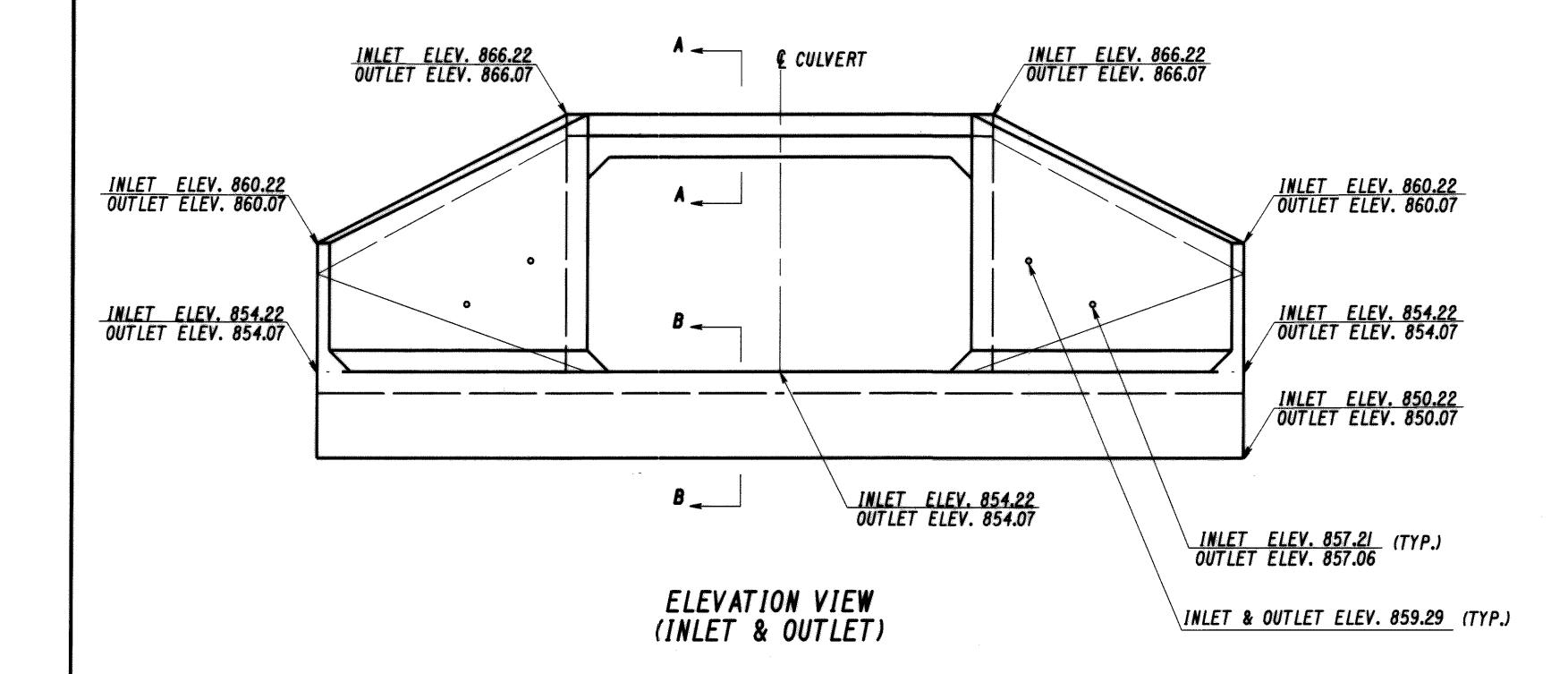
TOP OF BOX CULVERT

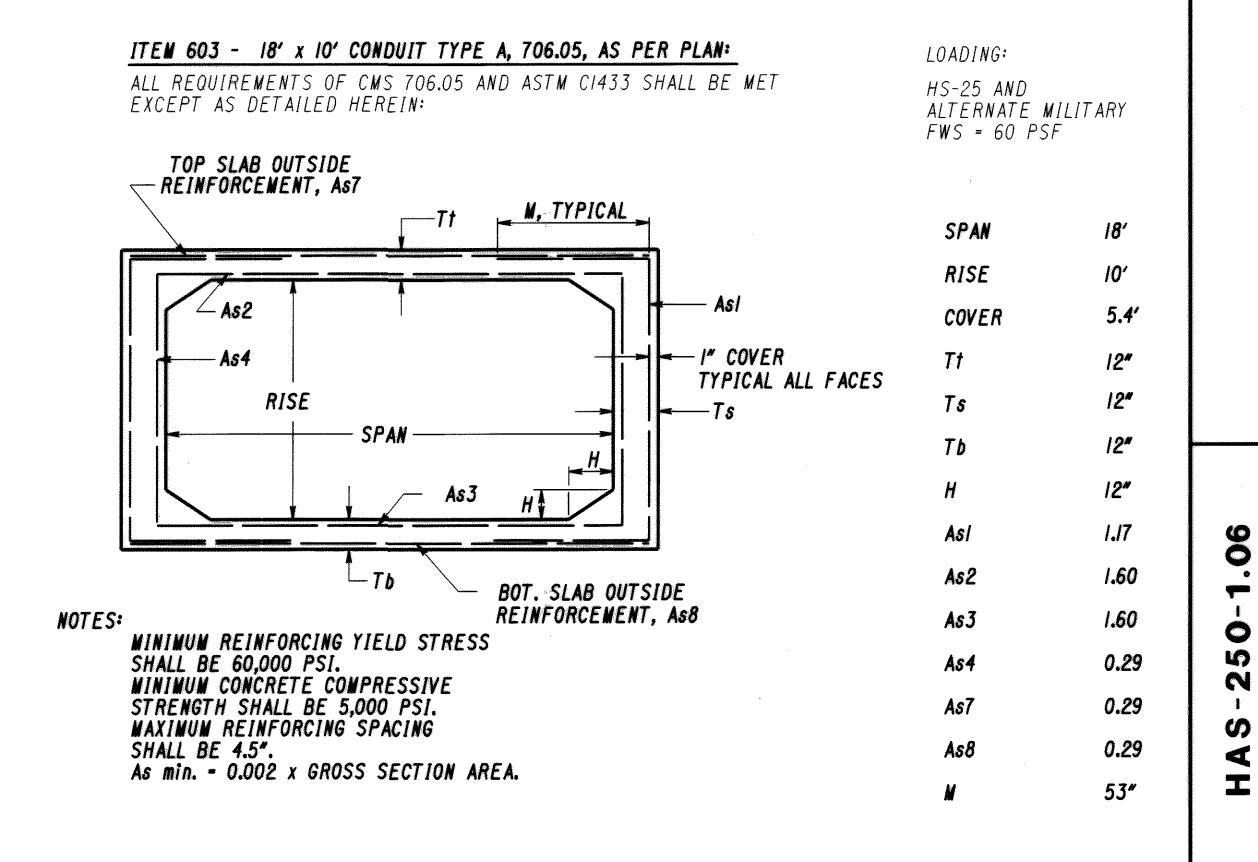
- H518 B.F.

INLET ELEV. 866.22 OUTLET ELEV. 866.07

SECTION A-A

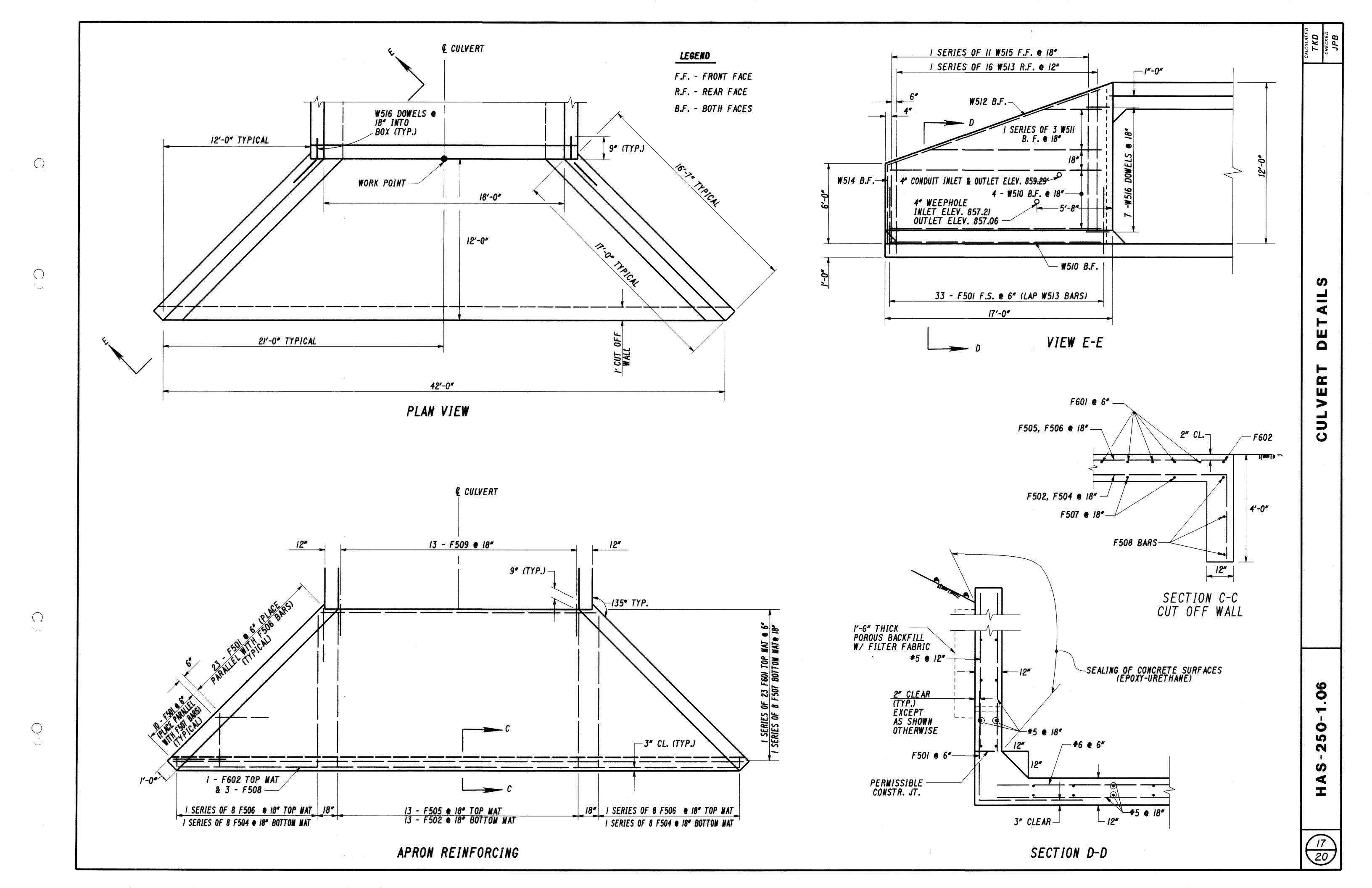
SECTION B-B





16 20

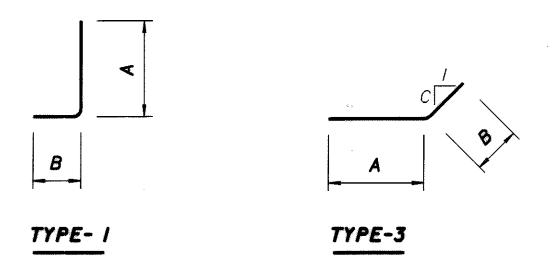
CULVERT



4	18	
	<u>20</u>	

				Cl	ILVERT								
MARK	NUMBER	LENGTH	WEIGHT	TYPE	INLET	OUTLET			MENSION				wij fa
			1000				A	8	С	D	Ē	R	INC.
EEO!	SLAB - TOP &			,			42	41 64					
F501 F502	132	7'-11"	1090	1 /	66	66	4'-0"	4'-0"					
rouz	20	14'-5"	39 /		/3	/3	11'-6"	3'-0"					
	4	3′-9″					0'-10"	3' -0"					
F504	SER	Т0	300	1	16	16	Τ0	Τ0					1'-6"
	0F 8	14'-3"					11'-4"	3'-0"					
F505	26	11'-6 "	3/2	<i>ST</i> .	/3	/3							
			JIL	37.		7.3							
	4	0' -91/2"											
F506	SER	TO	202	ST.	16	16							1'-6"
	0F 8	11'-31/2"	international desiration of the second secon							i i		: 	
			<u>.</u>					i.					

	SLAB - BOTTO												
ees-	2	20'-6"	£ 17					<u> </u>	<u></u>				.
F507	SER OF 8	TO	517	ST.	8	8		(31446-14-44-44-44-44-44-44-44-44-44-44-44-44-					3' -0"
	UF 0	41'-6"					-						
F508	6	41'-6"	260	ST.	3	3		<u> </u>					
F509	26	2'-9"	75	<i>ST</i> .	/3	13							
	CIAB TOO "	AT		-					: :				
	SLAB - TOP M	20'-6"		<u></u>						<u> </u>			
F60 I	SER	T0	2176	ST.	23	23							1'-0"
	0F 23	42'-6"		2000								Community of the Commun	
F602	2	41'-6"	125	ST.		1						<u> </u>	
	HEAD WALL		<u> </u>				-						
H509	28	1'-3"	37	1	14	14	0'-10"	0'-6"	<u> </u>				
H5 8	4	19'-8"	82	ST.	2	2			<u> </u>				
· · · · · · · · · · · · · · · · · · ·	WING WALLS -	EDOUT	EAD WAT _	UABITANTI					\$				
	WING WALLS	THUM! & A	MAN MAI	HUNIZUNI A									
W5/0	40	16'-0"	668	ST.	20	20							
							<u>.</u>						
****	8	4'-4"			10								41 ===
W5 / /	SER OF 3	12' - 10"	215	ST.	12	12							4'-3"
	0r 3	16 - 10	g-1744-y						- - - - -				
W5/2	8	16'-8"	/39	ST.	4	4							
												-	
	WING WALLS	DEAD MAT	VEOTION						<u> </u>				
Marian Company	WING WALLS -	MCAR MA! -	YENTIUAL					,	<u></u>			-	
	4	6'-1"											
W5/3	SER	TO	589	ST.	32	32							0' -41/4"
	OF 16	11'-5"							, »				
WE 14	8	5'-11		<u> </u>	4	4			<u> </u>				
W5 14	<u> </u>	3 -11	49	ST.	7		-		E				
	WING WALLS -F	RONT MAT -	VERTICAL		1			:					1
											<u></u>		
	4	5'-11"											
	SER	TO	386	ST.	22	22							0'-6"
W5 / 5		1 1001 1101		_	#	1	ı.			1	l .		1
W5 / 5	0F 11	10'-11"							<u> </u>				
		2'-6"	73	3	14	14	0'-9"	1'-9"	1			-	
W5 / 5 W5 / 6	OF II		73	3	14	14	0'-9"	1'-9"	1				



HAS-250-1.06 CONVENTIONAL SIGNS STRUCTURE KEY - RESIDENTIAL BUILDING HARRISON COUNTY, OHIO MONROE TOWNSHIP - COMMERCIAL BUILDING Fence Line (existing) $--x_{\frac{352}{}}$ ×— (proposed) SECTION 18, TOWNSHIP 13, RANGE 7 Center Line

Trees \bigcirc , Stumps \bigcirc , (to be removed) \bigcirc Utility Poles: Telephone \bigcirc , Power \bigcirc , Light \bigcirc Limited Access (only) Right of Way (only)

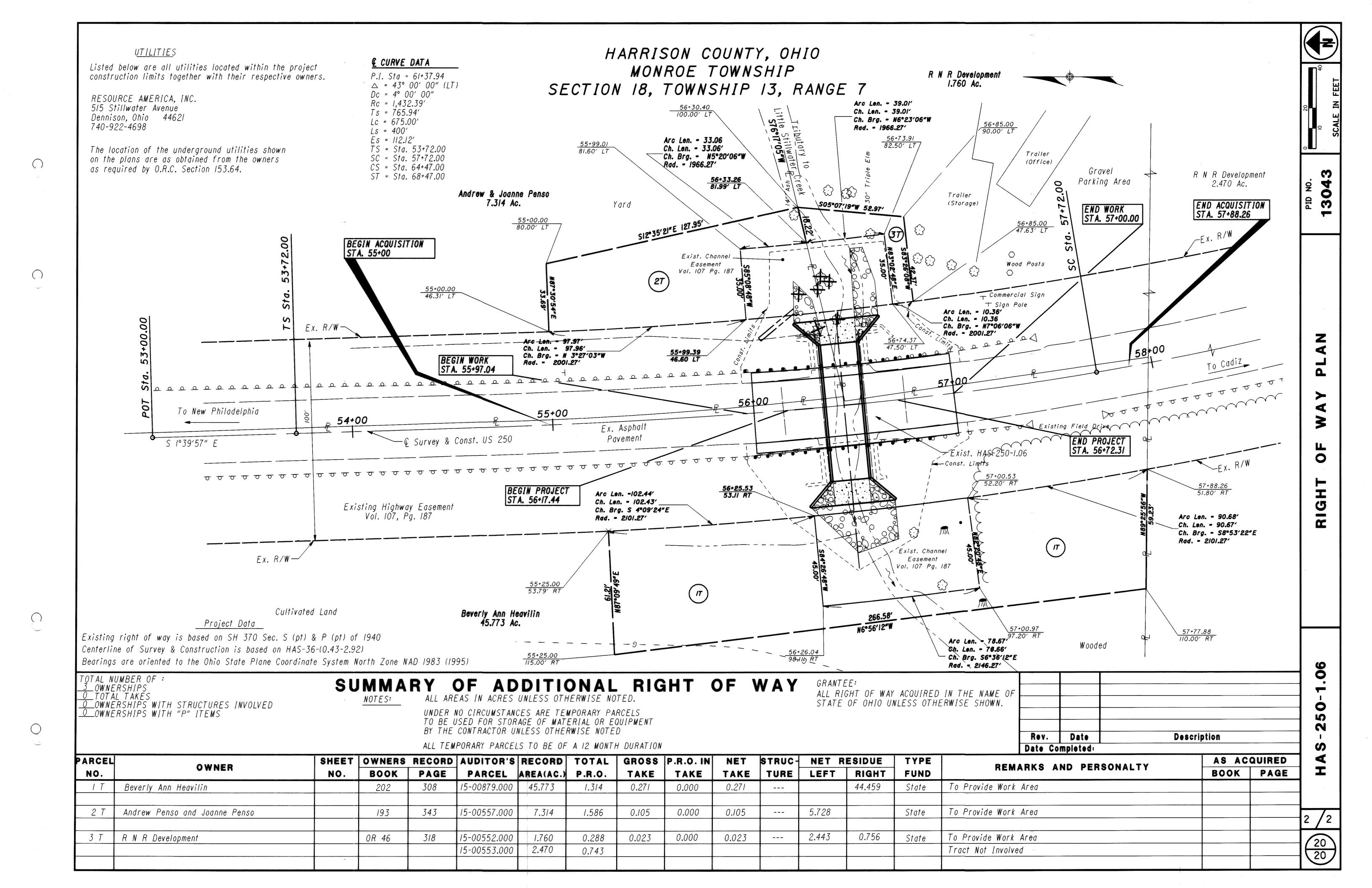
Limited Access & Right of Way

Existing Right of Way

Property Line

(in existing fence)

Existing fence* Sec. 13, T 13, R 7 Sec. 18, T 13, R 7 BEGIN PROJECT BEGIN WORK STA. Andrew & Joanne Penso 7.314 Ac. Beverly Ann Heavilin 45.773 Ac. BEGIN ACQUISITION STA. R N R Development R N R Development 2.45 Ac. END ACQUISITION STA. END PROJECT STA. END WORK STA. (UTILITIES GO HERE) REV. DATE
DATE COMPLETED DESCRIPTION



GEOLOGY OF THE SITE

THE CULVERT SITE IS LOCATED IN THE DISSECTED UNGLACIATED PORTION OF THE ALLEGHENY PLATEAU REGION, ON THE FLOODPLAIN OF AND OVER A TRIBUTARY OF LITTLE STILLWATER CREEK, IN AN AREA WHERE EXTREMELY DEEP ALLUVIAL DEPOSITS OVERLIE CLAY-SHALE BEDROCK OF PENNSYLVANIAN

EXPLORATION

THE EXPLORATION CONSISTED OF TWO DRIVE/PRESS SAMPLE BORINGS MADE BY MEANS OF A MECHANICALLY-POWERED HOLLOW STEM ROTARY AUGER MOUNTED ON A MOBILE PLATFORM, PERFORMED ON FEBRUARY 14-26, 2002.

INVESTIGATIONAL FINDINGS AND OBSERVATIONS

THE TEST BORINGS ENCOUNTERED INTERVALS OF EXTREMELY LOOSE TO EXTREMELY DENSE UNSTRATIFIED BASIC SILT, CLAY AND SAND MODIFIED BY GRAVEL AND VARYING AMOUNTS OF EACH OTHER THAT FLUCTUATE ERRATICALLY IN DENSITY WITH INCREASE IN DEPTH. TEST BORING B-I PENETRATED TO A DEPTH OF 81.5 FEET, ELEVATION 870.8 FEET AND WAS TERMINATED AT THAT POINT AFTER PENETRATING 11.5 FEET OF MATERIAL REQUIRING 30 OR MORE BLOWS PER FOOT IN THE STANDARD PENETRATION TEST IMMEDIATELY PRIOR TO TERMINATION. TEST BORING B-2 ENCOUNTERED BEDROCK SURFACE AT 78.0 FOOT DEPTH, ELEVATION 793.1 FEET AND PENETRATED AN ADDITIONAL FOOT FOR A TOTAL DEPTH OF 79.0 FEET, ELEVATION 792.1 FEET.

BEDROCK SURFACE WAS NOT ENCOUNTERED IN TEST BORING B-1.

FREE WATER WAS OBSERVED AND MEASURED IN BOTH BORINGS AT 21.0 FOOT DEPTH, ELEVATION 849.8 FEET IN BORING B-1 AND ELEVATION 850.1 FEET IN BORING B-2.

-	Roadway or Auger Boring Location - Plan View.	
-	Press and/or Drive Sample and/or Core Boring Location - Plan View.	X/Y/Z

Top of Rock

W—— Indicates Free Water Elevation.

Indicates Static Water Elevation.

taken Figures Beside the Boring Log in the Profile view Indicate the Number of Blows for Standard Penetration Test.

X = Number of Blows for First 6 in Y = Number of Blows for Second 6 in Z = Number of Blows for Third 6 in

HorizontalBar on Boring Log in the profile

view indicates the Depth the Sample was

Drive Sample/Press Sample/Core Borings

Drive sample borings are made by means of a mechanically-powered rotary-type drillrig employing a 2°0.D., 1-3/8" I.D. split spoon sampler, at 2.5 ft and/or 5.0 ft depth intervals, driven by means of a 140 lbs hammer with a free fall of 2.5 ft. The number of blows required to drive the sampler three 0.5 ft increments is considered the standard penetration test.

GENERAL INFORMATION

Drive/press sample borings are made by means of a mechanically-powered rotarytype drillrig, employing a 2 in 0.D., $1\frac{3}{8}$ in 1.D. split spoon sampler, and a 3 in O.D. thin wallpress sampling tube. The press sampling tube is advanced by continuous uniform pressure, applied by the drillrig.

Core borings are made by means of a mechanically-powered rotary-type drillrig, employing an NW-PAM core barrelwith an industrialdiamond cutting head.

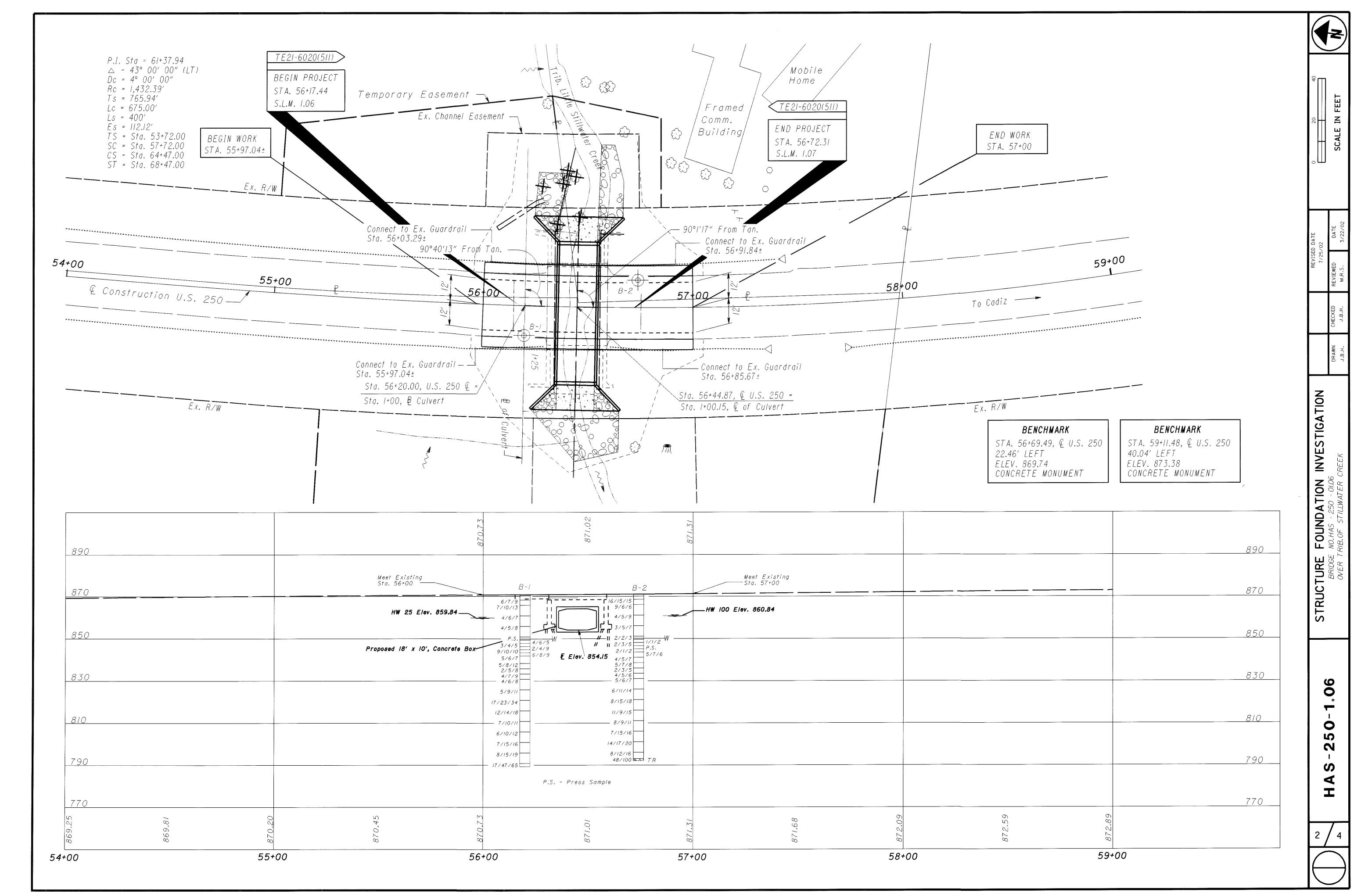
The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, type of sample, number of blows for the standard penetration test in three 0.15 m increments, sample description based on laboratory test results utilizing the Casagrande AC classification system, sample number; and gradation, plasticity and moisture content determinations. Results of strength and consolidation testing, if performed on undisturbed samples, will appear graphically on separate enclosures. Rock samples are displayed on the log sheets including depth and elevation of the sample, amount of recovery and a visual classification based on type, color, degree of hardness, grain size, deterioration, bedding, acid reaction and other qualifying factors.

SYMBOLS OF ROCK TYPES

G	Coal		Clay-Shale		Leached Dolomite
	Fire Clay or Underclay		Weathered Siltstone		Dolomite
	Weathered Mudstone		Siltstone		Leached Limestone
	Mudstone		Weathered Sandstone		Limestone
	Weathered Shale		Sandstone	VV	Flint
	Shale	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Conglomerate	^^^ ^^^	Gypsum
	Weathered Clay-Shale	000 000	Weathered Conglomerate		Boulders or Cobbles

PARTICLE SIZE DEFINITIONS

	12"		J) mm					0.005 mm
Boulders		Cobbles		Gravel	Coarse	Sand	Fine	Sand	Sil+	Clay
	ļ		'	_ •	sieve		•	•		'



03/02

State of Ohio Department of Transportation Office of Materials Management

LOG OF BORING

Date Started 2/14/02 Sampler: Type SS Dia. 13/8" Water Elev. 849.8' Project Identification: HARRISON

Date completed 2/25/02

Boring No. B-I Station & Offset 56+20,14'RT. Surface Elev. 870.8' OV. TRIB. OF LITTLE STILLWATER C HAS-250-0106 OV. TRIB. OF LITTLE STILLWATER CREEK

lev. Depth Std.Per	./ Rec. Loss	Description	Sample	0,			1 1/	racte			į	ODO
	†† ††		No.	Ağg	<u>c'.s.</u>	<u>F.s.</u>	síi+	Clay		P,I,	W.C.	Clas
70.3 AUGERE	D	ASPHALT					-		-			- VISU
68.3												
4 6/7/9	BROWN GRAV	ELLY SANDY SILT		18	8	1	43	20	NP	NP	18	Δ-4
5.8												
7/10/1	BROWN SAND	Y CLAY	2	10	6	12	45	27	32	12	17	A-6
8												
0.8 10												
	DDOWN CILT	AND CLAV	3	5	Λ		1.0	7.0	77	i.c	17	
12 4/6/	BROWN SILT	AND CLAT)	4	9	46	36	37	15		Δ-1
14						THE REAL PROPERTY AND A SECOND PROPERTY AND					MADOO CONTRACTOR OF THE PARTY O	
5.8											Andrea American	
16 4/5/8	BROWN CLAY		4	0	ı	4	32	63	51	22	25	Α-
18									1		Manager and American	
20											A. D. C.	
0.8 20	-	DOUBL OF T	5-P			5	52	42	NP	NP	24	
9.3 <u>22 PRESS</u>	- GRAY AND BI	KOWN SILI	5-5	0	Į)	1 32	42	INF	NF	24	Δ-4
7.8 4/6/5	GRAY SILTY	GRAVELLY SAND	6	21	18	29	19	13	NP	NP	29	A-2
6.3 24 3/4/5	GRAY SILT		7	0	0	!9	56	25	NP	NP	34	Δ-
4.8 26 2/4/9	GRAY SILT		8	0	0	18	54	28	NP	NP	26	Δ-
3.3 2 8 9/10/1	GRAY SILT		9	0	0		66	33	NP	NP	26	Δ-
11.8 6/8/9	\		10	0	0	3	62	35	NP	NP	30	Δ-
30 5/6/7				0	0	2	64	34	NP	NP	27	Δ-
32	ONA! SIL!						, 0		141	1 1 1	- 1	
.0.3				ļ								
34 5/8/12	GRAY SILT		12	0	0	2	68	30	NP	NP	25	Δ
5.8 36												
	GRAY SILT		13	0	0	2	57	41	NP	NP	28	Α-
3.3 38	20.17					_			6			
0.8 40 4/7/9	GRAY SILT		14	0	0	3	56	41	NP	NP	25	Δ
	GRAY SILT		15	0	0	3	55	42	NP	NP	27	Δ
42 4/6/8	ORAT SILT		15					14	I INI	1 41	_ '	"
44												
5.8 46				***************************************				Andrews				
5/9/1	GRAY SILT		16	0	1	11	49	39	NP	NP	21	Δ-
48												
50												
0.8 50												
52 17/23/3	4 GRAY SANDY	SILT	17	7	14	38	26	15	NP	NP	17	A-
54											e la company de	en management of a
5.8												
56 12/14/1	B GRAY SILT		18	0	3	16	53	28	NP	NP	21	Δ-
58	ONAL SILI		10		<i>,</i>	'5		ا	. 1	. 40	۱ ک	
										ļ		THE REAL PROPERTY OF THE PERTY
0.8 60										- I to the second secon		***************************************
62 7/10/1	GRAY SILT		19	0		8	60	31	NP	NP	23	Δ-
												ALL CONTRACTOR OF THE PARTY OF
64												
5.8 66 6.40 44					_							İ
6/10/1	GRAY SILT		20	0	0	5	61	34	NP	NP	26	Δ-
68												
0.8 70												
	GRAY SILT		21		J	6	60	33	NP	NP	22	Δ-
72 7/15/16			-		'				, 41			
74												
5.8 7 6												THE PARTY OF THE P
8/15/19	GRAY SILT A	ND CLAY	22	0	L	17	42	40	35	13	22	Δ-
78											Value	
<u> </u>	1		1	ı l						1	1	
0.8 80												

L BOTTOM OF BORING Particle Sizes: Agg= >2.00mm, Coarse Sand= 2.00-0.42mmFine Sand= 0.42-0.074mm, Silt= 0.074-0.005mm, Clay= <0.005mm Form TE-15LRavised 9/95

State of Ohio Department of Transportation Office of Geotechnical Engineering UNCONFINED COMPRESSION TEST (AASHTO T 208)

Project Identification	1 HARRISON
HAS-250-0106	
OV. TRIB. OF LITTLE	STILLWATER CREEK

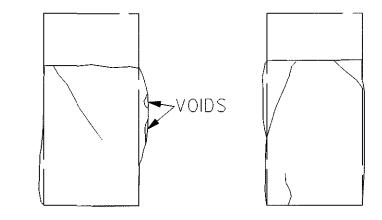
Station & Offset 56+20,14' RT. Boring <u>B-I</u> Depth <u>21.0'-21.5'</u> Field No. <u>5-P</u> Lab No. <u>01916</u>

Specimen Data

Diameter <u>2.84"</u> Wet Density <u>N/A</u> Height 6.05" Dry Density N/A Visual Description <u>GRAY AND BROWN SILT</u>

Physical Characteristics

% Agg.	% C.S.	% F.S.	% Silt.	% Clay.	L.L	P.I.	W.C.
0		5	52	42	NP	NP	24

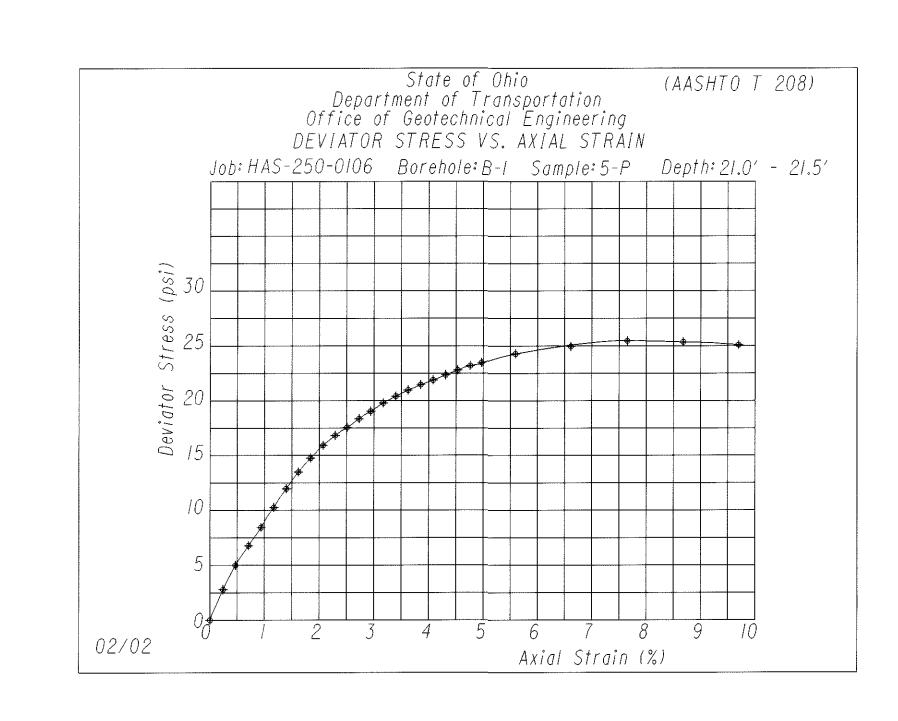


Penetrometer 2.0 TSF

Failure Diagrams Torvane <u>0.74 TSF</u>

Remarks: NOTE: TWO VOIDS (1/2" DIAMETER AND 1/8" DEEP) WERE PRESENT ON THE SIDE OF THE SAMPLE PRIOR TO TESTING.

MAX DEVIATOR STRESS = 25.46 PSIAT 7.65 % STRIAN 02/02



FOUNDATION INVESTIGATION 90 0 5

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A

0

FOUNDATION INVESTIGATION NO.HAS - 250 - 01.06

State of Ohio Department of Transportation Office of Materials Management LOG OF BORING

				DOMESTO		
Date Started 2/25/02	Sampler: Type_	id <u>SS</u>	a13 <u>//</u> "	Water Elev	850 . 1′	Project Identification: HARRISON
Date completed 2/26/02						<u> </u>
Boring No. B-2 Station &	Offset <u>56+74,</u>	13' LT.		_Surface Elev.	871.1′	<u>OV.TRIB.OF LTTLE STILLWATER CREEK</u>

Elev.	Depth	Std. Pen./	Rec. Loss	Desc	cription	Sample	•,			•/	acte		1	т	ODOT
871 . 1	0	R.Q.D. AUGERED	ft ft		·	No.	Α₫q	c <u>.s.</u>	F.S.	Sí͆	_	L.L.	P.I.	W.C.	Class VISUAL
870.1	2	AUGERED		со́йс	HALT — — — RETE				-		-	-	4	-	VISUAL
868.6	4	16/15/15	DDOWN SHITY	CDAVELLY CAND		24	28	17	17	07	1.67	NP			
866.1		כו עמו עמו	DRUWN SILIT	GRAVELLY SAND		24	20	11	17	23	15	NF	NP	9	A-4a
	6	9/6/6	BROWN SAND	Y SILT		25	8	11	12	38	31	NP	NP	14	A-4a
	8														
861.	10													THE PERSON NAMED AND PARTY OF THE PE	
33.0.	12	4/5/9	BROWN CLAYE	EY SILT		26	0	6	7	40	47	32	8	26	A-4a
													ATT TO THE TOTAL OF THE TOTAL O		-
856.	14								-						
02001	16	3/5/7	RROWN AND (GRAY CLAYEY SILT		27	0		2	37	60	37	9	29	A-4a
	18	J/ J/ 1	DROWN AND C	MAT CEATET SIET				i.	_	١٠		J	7	25	A 70
													00000cm004 1111.0cm		
851.1	20							_					On a defendance of the second		
849.6	22	2/2/3		GRAY SANDY SILT		28	0	5	16	40	39	NP	NP	27	A-4a
848.	24	1/1/2	BROWN SANDY	(SIL I		29	0	16	27	36 57	21	NP	NP	22	A-4a
845.	26	2/3/5 PRESS	GRAY SILT Brownish-gr	AY CLAYEY SILT		30 3I-P	0	0 2	8 4	57 42	35 52	NP 33	NP IO	32	A-4b A-4a
843.6		2/1/2	GRAY SANDY			32	0	0	21	49	30	NP	NP	41	A-4a
045.0	28	5/7/6	GRAY SILT	OIL 1		33	0	0	9	60	31	NP	NP	25	A-4b
841.1	30	37 17 0	ONA! SIE!					Ŭ	J).		1 41		A 10
	32	4/5/7	GRAY SILT			34	0	0	3	69	28	NP	NP	26	A-4b
838.6	34	E (7 (0				7.5		^	_	¢.	777	7.0		0.0	A 41.
836.1		5/7/8	GRAY SILT			35	0	0	2	65	33	NΡ	NP	26	A-4b
	36	2/3/5	GRAY SILT			36	0	0	1	59	40	NP	NP	25	A-4b
833.6	38													AND THE PROPERTY OF THE PROPER	
831.1	40	4/5/6	GRAY SILT			37	0	0	2	58	40	NP	NP	22	A-4b
	42	5/6/7	GRAY SILT			38	0	0	3	66	31	NP	NP	27	A-4b
1	42														_
826.1	44													N POCATION OF THE POCATION OF	
020.1	46	6/11/14	GRAY SANDY	SII T		39	0		20	56	23	NP	NP	20	A-4b
	48	07 117 11	ONA! SAND!					•	20	30	23	141	, ,,	20	
	50	er mark													
821.1		0 /15 /10		CHIT		40		17	ıc	47	10	NP	\$ I □	10	A 1 a
	52	8/15/18	GRAY SANDY	SIL I		40	6	13	15	41	19	NF	NP	16	A-4a
	54														
816.1	<u>56</u>														
Laanua vermuunaa	5 <u>8</u>	11/9/15	BROWN SANDY	Y SILT WITH CLAY		41	-	-	-	-	-	-		16	VISUAL
ŀ															Į
811.1	60														
	62	8/9/11	GRAY SILT			42	0	İ	5	56	38	NP	NP	21	A-4b
	64														
806'1															
	66	7/15/16	GRAY SANDY	SILT		43	0	5	17	51	27	NP	NP	23	A-4b
	68														
801.1	70														
	72	14/17/20	GRAY SANDY	CLAY		44	Ш	4	15	36	34	35	!2	18	A-6a
796.	74					**************************************					***************************************				
	76	8/12/16	78.0 SANDY S	SILT	TOP OF ROCK-	45	0	2	37	35	26	NP	NP	17	A-4a
793.i	78														
792.1		48/100	BLACK, CARBO	NACEOUS. JOINTED CLAY	'-SHALE W/SLICKENSIDES	3 46	-		-			-	_	88	VISLIAL

L BOTTOM OF BORING

Particle Sizes: Agg= >2.00mm, Coarse Sand= 2.00-0.42mm, Fine Sand= 0.42-0.074mm, Silt= 0.074-0.005mm, Clay= <0.005mm Form TE-15LRevised 9/95

State of Ohio Department of Transportation Office of GeotechnicalEngineering UNCONFINED COMPRESSION TEST (AASHTO T 208)

Project	Identifica	ation <u>HAF</u>	RRISON	
<u> HAS-25</u>	0-0106			
OV. TRIE	B.OF LITT	E STILLV	VATER CREEK_	
Station	& Offset	56+7	4,13′LT.	
Boring	B-2	Depth	25.0′ 25.5′	

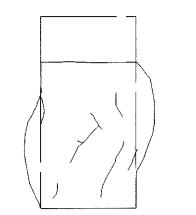
Specimen Data

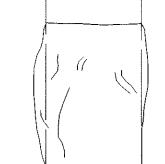
Field No. <u>31-P</u> Lab No. <u>01915</u>

Diameter	2.94"	Wet Density _	N/A	
Height	5.91"	_ Dry Density _	N/A	
Visual Desc	cription <u>BR</u> (DWNISH GRAY CLAYE	Y SILT	

Physical Characteristics

% Agg.	% C.S.	% F.S.	% Sil+.	% Clay.	L.L	P.I.	W.C.
0	2	4	42	52	33	10	27





Failure Diagrams

Penetrometer <u>0.75 TSF</u>

Torvane <u>0.36 TSF</u> Remarks: <u>NOTE: TEST_RUN, HOWEVER_DATA_LOST_DUE_TO</u> COMPUTER GLITCH.

02/02