

GUL 70-0701 L

313(12)

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

GUE-70-6.55

VILLAGE OF OLD WASHINGTON

**CAMBRIDGE, CENTER
AND WILLS TOWNSHIPS**

GUERNSEY COUNTY

PROJECT DESCRIPTION:

4 LANE DIVIDED ASPHALT CONCRETE RESURFACING,
BRIDGE DECK OVERLAYS AND RELATED WORK ON
IR 70 IN GUERNSEY COUNTY.

EARTH DISTURBED AREAS (MAINTENANCE PROJECT):

PROJECT EARTH DISTURBED AREA = N/A
ESTIMATED CONTRACTOR EARTH DISTURBED AREA = N/A
NOTICE OF INTENT EARTH DISTURBED AREA = N/A

LOCATION	COUNTY	ROUTE	BEGIN SLM	END SLM	LENGTH MILES	VILLAGE
1	GUE	I.R. 70	6.58	28.50	21.92	OLD WASHINGTON

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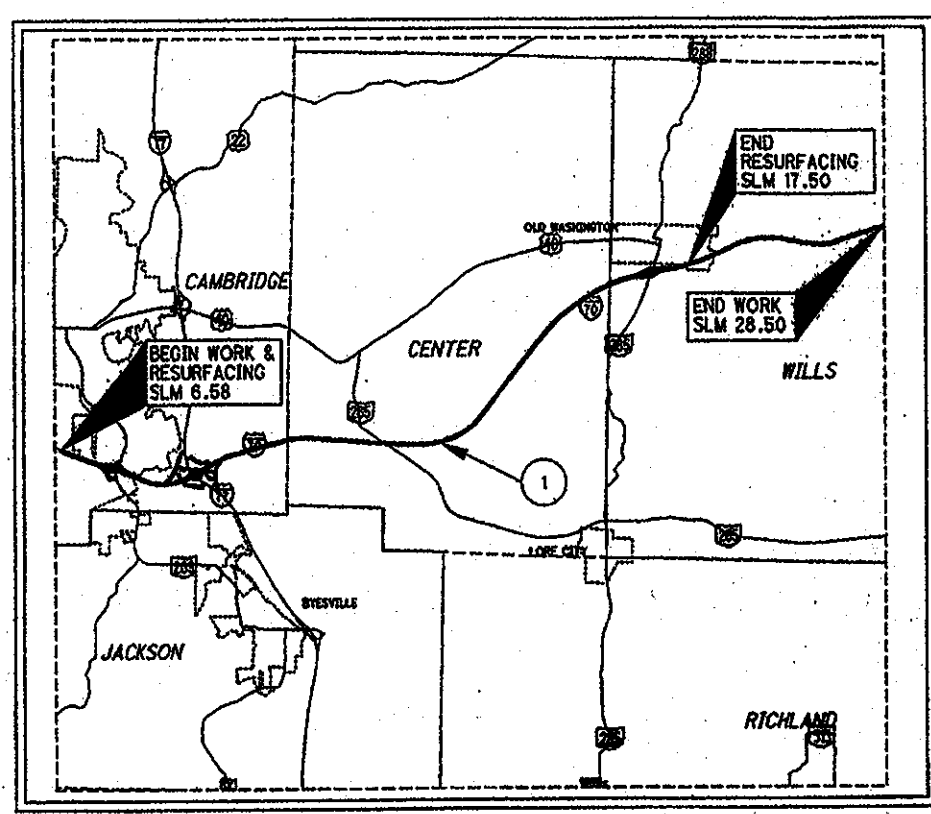
LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC
AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY
BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS
OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2010 SPECIFICATIONS

THE STANDARD 2010 SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND THE PROPOSAL SHALL GOVERN THESE IMPROVEMENTS.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THESE IMPROVEMENTS WILL NOT REQUIRE THE CLOSING OF THE HIGHWAY AND PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS INDICATED IN THE PROPOSAL.



LOCATION MAP

LONG/LAT: 81° 32' 17" / 40° 00' 13"

PORTION TO BE IMPROVED

DESIGN DESIGNATION	GUE-70
Functional Classification	INTERSTATE
Opening Year ADT (2012)	32000
Design Year ADT (2024)	39100
Design Hourly Volume (2024)	3500
Directional Distribution	50%
Trucks (24-Hour B&C)	40%
Design Speed	75mph
Legal Speed	65mph

SHELLY'S SANDS
COLUMBUS, OH
\$13,665,842.09

DESIGN EXCEPTIONS: NONE

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG

CALL
1-800-362-2764
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE
SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 5 PLANNING AND ENGINEERING

ENGINEERS SEAL:
ROADWAY

STATE OF OHIO
DOUGLAS H. MORROW
E-43438
REGISTERED PROFESSIONAL ENGINEER

SIGNED: [Signature]
DATE: 2/15/2012

ENGINEERS SEAL:
STRUCTURE

STATE OF OHIO
Troy Allen Greenwald
E-71857
REGISTERED PROFESSIONAL ENGINEER

SIGNED: [Signature]
DATE: 2/15/2012

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
BP-2.5	7-18-08	MT-98.29	7-17-09	800	1-20-12
BP-3.1	1-20-12	MT-99.20	1-16-09	817	4-15-11
BP-9.1	4-15-05	MT-101.70	4-15-11	823	7-15-11
GR-3.1	10-16-09	MT-101.90	10-21-11	832	5-5-09
GR-3.2	10-16-09	MT-105.10	1-16-09	848	10-21-11
RM-4.2	10-15-10	MT-95.50	4-17-09		
MT-35.10	4-20-01	MT-101.60	4-17-09		
MT-95.30	7-17-09	PCB-91	7-19-02		
MT-95.40	7-17-09	TC-65.10	1-21-05		
MT-98.10	7-17-09	TC-65.11	1-21-05		
MT-98.11	7-17-09	TC-71.10	1-18-09		
MT-98.20	7-17-09	TC-72.20	1-21-05		
MT-98.22	7-17-09	TC-73.10	1-19-01		
MT-98.28	7-17-09	TC-82.10	1-21-11		

APPROVED [Signature]
DATE 2/16/12 DISTRICT DEPUTY DIRECTOR

APPROVED [Signature]
DATE 2-29-12 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. **E100(028)**

PID NO. **21494**

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
Columbus & Ohio River Railroad

GUE-70-6.55

1/58

GUE-IR-70-6.55
120313 PID-21494
Dist 5 5/24/2012
Contract Proposal Available
@www.contracts.dot
state.oh.us/home

313(12)

P:\GUE\21494\Design\Bridge\SFN\Plan_Sheets\combined with roadway\GENERAL BRIDGE\G070001.BGN (SCALE = 1/1000)

DESIGN SPECIFICATIONS

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

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 WHICH HAVE BEEN VERIFIED IN THE FIELD.

DESIGN LOADING

DESIGN LOADING: CF-2000 (1957)

EXISTING PLANS

EXISTING PLANS ENTITLED GUE-40-8.93 MAY BE INSPECTED IN THE ODOT DISTRICT 5 OFFICE IN JACKSONTOWN, OHIO.

GENERAL PROVISIONS

THE CONTRACTOR'S ATTENTION IS CALLED TO ALL OF SECTION 100 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION.

REMOVED MATERIALS

ALL REMOVED MATERIALS EXCEPT AS NOTED ELSEWHERE IN THE PLANS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY HIM FROM THE JOB SITE.

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.

MAINTENANCE OF TRAFFIC

MAINTENANCE OF TRAFFIC QUANTITIES FOR AREAS OF WORK AT BRIDGES ON THIS PROJECT ARE INCLUDED IN THE GENERAL SUMMARY. SEE GENERAL SUMMARY, SHEET 248.

PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE

DESCRIPTION: THIS WORK CONSISTS OF THE REMOVAL OF PORTIONS OF THE CONCRETE DECK INCLUDING BRIDGE PARAPET RAILING AS DETAILED IN THE PLANS. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING DECK 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 EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

PROTECTION OF TRAFFIC: PRIOR TO DEMOLITION OF ANY PORTIONS OF THE EXISTING SUPERSTRUCTURE, SUBMIT PLANS FOR THE PROTECTION OF TRAFFIC (VEHICULAR, PEDESTRIAN, BOAT, ETC.) ADJACENT TO AND/OR UNDER THE STRUCTURE TO THE DIRECTOR AT LEAST 7 DAYS BEFORE CONSTRUCTION BEGINS. THESE PLANS SHALL INCLUDE PROVISIONS FOR ANY DEVICES AND STRUCTURES THAT MAY BE NECESSARY TO ENSURE SUCH PROTECTION. MAINTAIN EXISTING VERTICAL CLEARANCES AT ALL TIMES EXCEPT AS OTHERWISE APPROVED BY THE DIRECTOR.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK SLAB CUTTING IS PERMITTED, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF FLANGE EDGES. PERFORM WORK CAREFULLY DURING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS AND REINFORCING STEEL THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE.

REMOVAL METHODS: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER BRIDGE MEMBERS (STEEL BEAM), THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER BRIDGE MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STEEL MEMBERS AND REINFORCING STEEL THAT IS TO BE PRESERVED IN PLACE.

DECK REMOVALS: DUE TO THE POSSIBLE PRESENCE OF WELDED ATTACHMENTS TO EXISTING STRUCTURAL STEEL (FINISHING MACHINE, SCUPPER AND FORM SUPPORTS, ETC.), PERFORM WORK CAREFULLY DURING DECK REMOVAL TO AVOID DAMAGING GIRDERS WHICH ARE TO REMAIN. REPLACE OR REPAIR GIRDERS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. SUBMIT PROPOSED REPAIRS, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER, IN WRITING TO THE DIRECTOR AT LEAST 3 DAYS BEFORE PERFORMING REPAIR WORK.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A CU. YD. BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE.

ITEM 516 - 2" DEEP JOINT SEALER, AS PER PLAN

A 2" DEEP X 1" WIDE STRIP SHALL BE SAWCUT OUT OF ALL EXISTING APPROACH SLAB MATERIALS ABUTTING BACKWALLS AFTER ALL NECESSARY BACKWALL REPAIRS HAVE BEEN MADE AND CURED. IF AN EXISTING COMPRESSION SEAL IS IN PLACE, IT SHALL BE REMOVED PRIOR TO OR DURING THE SAWCUTTING OPERATION NECESSARY FOR THIS ITEM. JOINT SEALER AS PER 705.04 SHALL BE USED TO SEAL THE JOINT CREATED.

ALSO, A 2" DEEP X 1" WIDE VOID SHALL BE CREATED AS SHOWN IN THE PARAPET DETAILS OF THIS PLAN AND JOINT SEALER AS PER 705.04 SHALL BE USED TO SEAL THE JOINT CREATED.

PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUBSTRUCTURE

THERE SHALL BE NO SAWCUTS BELOW THE REMOVAL LINES AS DETAILED IN THE PLAN. IF SAWCUTTING IS NOT IMPLEMENTED, ALL CONCRETE REMOVED DOWN TO THE SAWCUT SHALL BE REMOVED BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. 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.

ITEM 898 - QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (DECK), AS PER PLAN

ITEM 898 - QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (DECK), AS PER PLAN: THE DEPARTMENT WILL CALCULATE THE FINAL ADJUSTED PAYMENT ACCORDING TO 898.17 AND INCLUDE PARAPET CONCRETE AND DECK CONCRETE IN THE SAME LOT TO DETERMINE FINAL PAY FACTORS.

ALL TIME, LABOR, MATERIALS, AND MISC. ITEMS REQUIRED TO DRILL AND SEAL HOLES IN AND TO EXISTING BACKWALLS OR WINGWALLS IS INCIDENTAL TO THIS ITEM. SEE PARAPET DETAIL SHEETS WITHIN PLAN FOR DETAILS.

ITEM 898 - QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (PARAPET), AS PER PLAN

CONCRETE PARAPETS: AS SOON AS A CONCRETE SAW CAN BE OPERATED WITHOUT DAMAGING THE FRESHLY PLACED CONCRETE, SAWCUT 1 1/4" DEEP CONTROL JOINTS INTO THE PERIMETER OF THE CONCRETE PARAPET STARTING AND ENDING AT THE ELEVATION OF THE CONCRETE DECK. PLACE THE SAWCUTS AT A MINIMUM OF 6 FEET AND A MAXIMUM OF 10 FEET CENTERS. USE AN EDGE GUIDE, FENCE, OR JIG TO ENSURE THAT THE CUT JOINT IS STRAIGHT, TRUE, AND ALIGNED ON ALL FACES OF THE PARAPET. THE JOINT WIDTH SHALL BE THE WIDTH OF THE SAW BLADE, A NOMINAL WIDTH OF 1/4 INCH. SEAL THE PERIMETER OF THE DEFLECTION CONTROL JOINT TO A MINIMUM DEPTH OF 1 INCH WITH A POLYURETHANE OR POLYMERIC MATERIAL CONFORMING TO ASTM C920, TYPE 5. LEAVE THE BOTTOM 1/2 INCH OF THE INSIDE AND OUTSIDE FACE UNSEALED TO ALLOW WATER TO ESCAPE.

DEMOLITION ON RAILROAD PROPERTY

THE CONTRACTOR SHALL SUBMIT TO THE RAILROAD A DETAILED DEMOLITION AND ERECTION PROCEDURE FOR THE EXISTING STRUCTURE, WHICH SHOULD CLEARLY INDICATE THE CAPACITY OF CRANES, AND THE LOCATION OF CRANES WITH RESPECT TO THE EXISTING TRACK. THIS PROCEDURE MUST BE SUBMITTED AND APPROVED BY THE RAILROAD PRIOR TO STARTING WORK.

THE CONTRACTOR SHALL PROVIDE A BALLAST AND TRACK PROTECTION SYSTEM ACCEPTABLE TO THE RAILROAD WHICH SHALL KEEP THE EXISTING RAIL, BALLAST AND RAILROAD RIGHT-OF-WAY CLEAN AND PROTECTED FROM DEMOLISHED MATERIAL, AND WILL NOT INTERFERE WITH PASSING TRAIN OPERATIONS. THIS SYSTEM MUST BE SUBMITTED AND APPROVED BY THE RAILROAD PRIOR TO STARTING WORK. LARGE PIECES OVER 50 POUNDS PER SQUARE FOOT SHALL NOT BE ALLOWED TO FALL ON THE BALLAST AND TRACK PROTECTION SYSTEM UNLESS OTHERWISE APPROVED IN ADVANCE BY THE RAILROAD.

SEE SPECIAL CLAUSES IN THE BID PROPOSAL FOR OTHER RAILROAD AND NOTIFICATION REQUIREMENTS.

ITEM 518 - SCUPPER, MISC.: 4" CONDUIT

THE CONTRACTOR SHALL PROVIDE MATERIAL FOR THIS ITEM CONFORMING TO THE C.M.S. REQUIREMENTS OF ITEM 625 - CONDUIT, 4", 725.051. IN ADDITION, THE CONTRACTOR SHALL FIELD CUT / BEVEL, CUT/BORE HOLES FOR, PLACE, AND SEAL A 4" CONDUIT, AT EACH LOCATION, AS SHOWN IN THE PARAPET DETAILS ON SHEET 11/33.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF ON EACH LOCATION BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITY OF SCUPPERS CONDUIT AT THE CONTRACT PRICE FOR ITEM 518 - SCUPPER MISC.: 4" CONDUIT.

ITEM 848 - SURFACE PREP. USING HYDRO-DEMOLITION

IN ORDER TO MEET THE REQUIREMENTS OF SS 848, SECTION 848.20, LAND APPLICATION OF HYDRO-DEMOLITION WASTEWATER MAY BE UTILIZED FOR THIS PROJECT. INFIELD AREAS OF THE INTERCHANGES AND OTHER STATE OF OHIO RIGHT OF WAYS NEAR THIS PROJECT MAY BE PERMITTED FOR USE BY THE O.E.P.A. FOR THE CONTRACTOR'S USE IN THIS PROCESS AS DIRECTED BY THE PROJECT ENGINEER.

ITEM 202 - EXCAVATION, AS PER PLAN

PERFORM WORK ACCORDING TO DETAILS SHOWN ON SHEET 11/33 OF THE BRIDGE PARAPET DETAILS. AN ESTIMATED AMOUNT OF 10 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 601 - ROCK CHANNEL PROTECTION, TYPE D WITH FILTER, AS PER PLAN

PERFORM WORK ACCORDING TO DETAILS SHOWN ON SHEET 11/33 OF THE BRIDGE PARAPET DETAILS. AN ESTIMATED AMOUNT OF 10 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 202 - BRIDGE TERMINAL ASSEMBLY REMOVED

PERFORM REMOVAL WORK TOTALING A QUANTITY OF:

202 - GUARDRAIL REMOVED.....412.5 FEET

PERFORM REMOVALS OF LENGTHS REQUIRED TO PLACE PROPOSED BRIDGE TERMINAL ASSEMBLIES AND GUARDRAIL AT BRIDGE PARAPET ENDS AT THE FOLLOWING LOCATIONS (SEE ITEM 606 NOTES FOR SPECIFIC LENGTHS):

BRIDGE NO. GUE-70-0901 L: LEFT REAR, LEFT FWD, & RIGHT FWD
BRIDGE NO. GUE-70-0901 R: LEFT REAR, RIGHT REAR, & RIGHT FWD
BRIDGE NO. GUE-70-0943 A: LEFT REAR, RIGHT REAR, & RIGHT FWD
BRIDGE NO. GUE-70-0943 L: LEFT FWD & RIGHT FWD
BRIDGE NO. GUE-70-0943 R: LEFT REAR, RIGHT REAR, & RIGHT FWD

THE TOTAL QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR PAYMENT.

ITEM 606 - BRIDGE TERMINAL ASSEMBLY, TYPE 1

PERFORM WORK TOTALING A QUANTITY OF:

ITEM 606 - BRIDGE TERMINAL ASSEMBLY, TYPE 1.....10 EACH
ITEM 606 - GUARDRAIL, TYPE 5.....312.5 FEET

PLACE A QUANTITY OF BRIDGE TERMINAL ASSEMBLY, TYPE 1 = 1 EACH AND GUARDRAIL, TYPE 5 = 31.5 FT AT EACH BRIDGE PARAPET ENDS AT THE FOLLOWING LOCATIONS:

BRIDGE NO. GUE-70-0901 L: LEFT FWD & RIGHT FWD
BRIDGE NO. GUE-70-0901 R: LEFT REAR & RIGHT REAR
BRIDGE NO. GUE-70-0943 A: LEFT REAR & RIGHT REAR
BRIDGE NO. GUE-70-0943 L: LEFT FWD & RIGHT FWD
BRIDGE NO. GUE-70-0943 R: LEFT REAR & RIGHT REAR

THE TOTAL QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR PAYMENT.

ITEM 606 - BRIDGE TERMINAL ASSEMBLY, TYPE 2

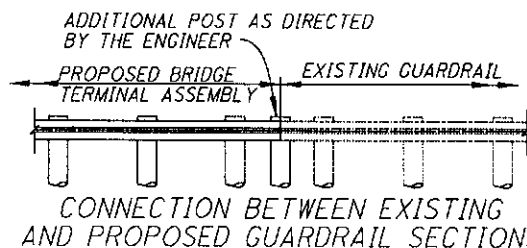
PERFORM WORK TOTALING A QUANTITY OF:

ITEM 606 - BRIDGE TERMINAL ASSEMBLY, TYPE 2.....4 EACH
ITEM 606 - GUARDRAIL, TYPE 5.....100 FEET

PLACE A QUANTITY OF BRIDGE TERMINAL ASSEMBLY, TYPE 2 = 1 EACH AND GUARDRAIL, TYPE 5 = 25.0 FT AT EACH BRIDGE PARAPET ENDS AT THE FOLLOWING LOCATIONS:

BRIDGE NO. GUE-70-0901 L: LEFT REAR
BRIDGE NO. GUE-70-0901 R: RIGHT FWD
BRIDGE NO. GUE-70-0943 A: RIGHT FWD
BRIDGE NO. GUE-70-0943 L: NONE
BRIDGE NO. GUE-70-0943 R: RIGHT FWD

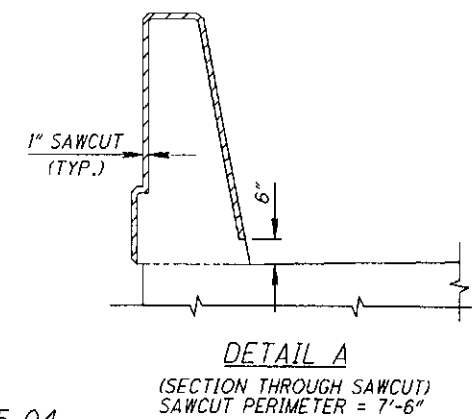
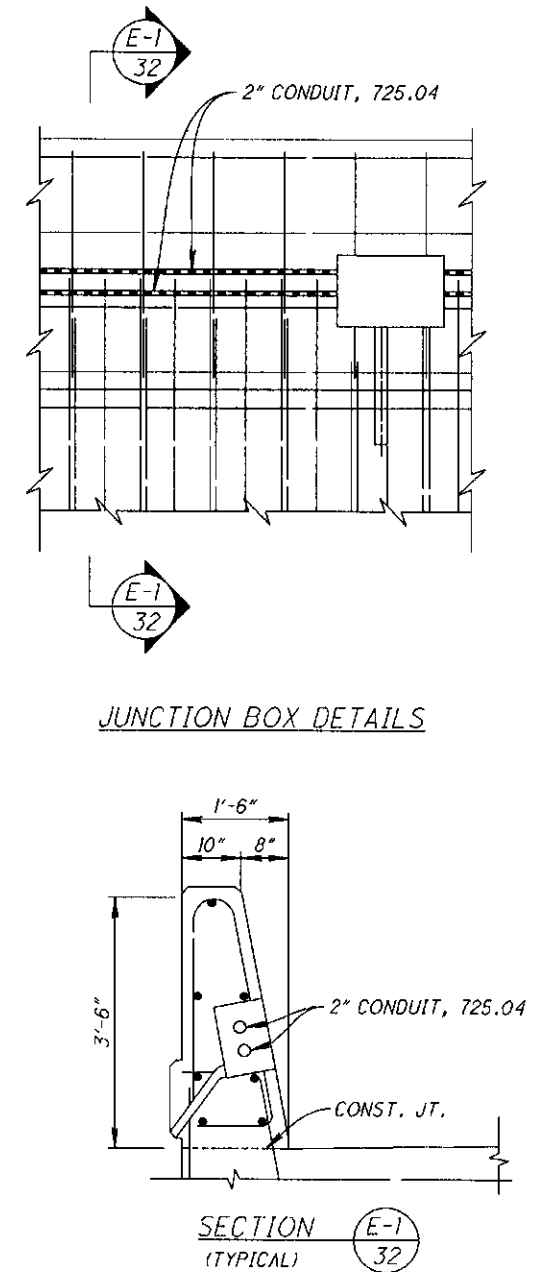
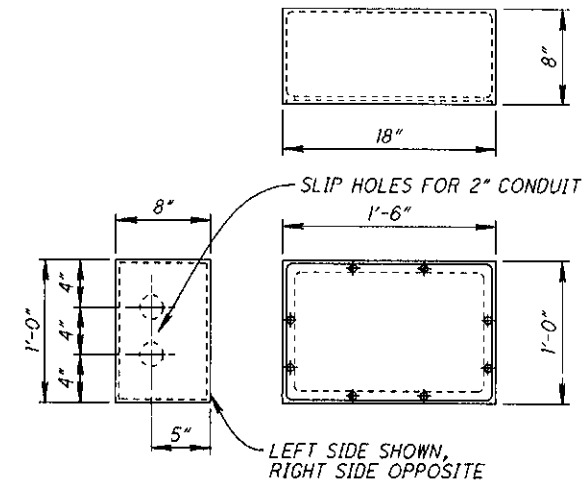
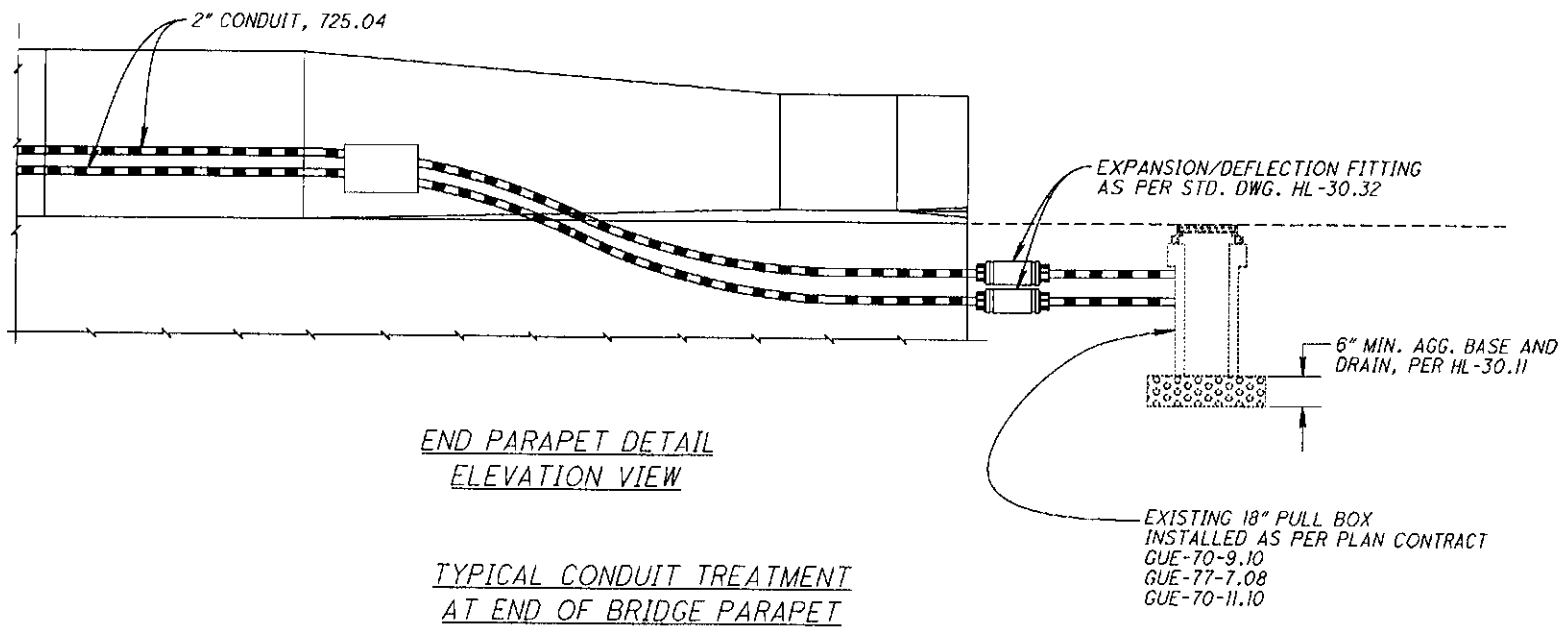
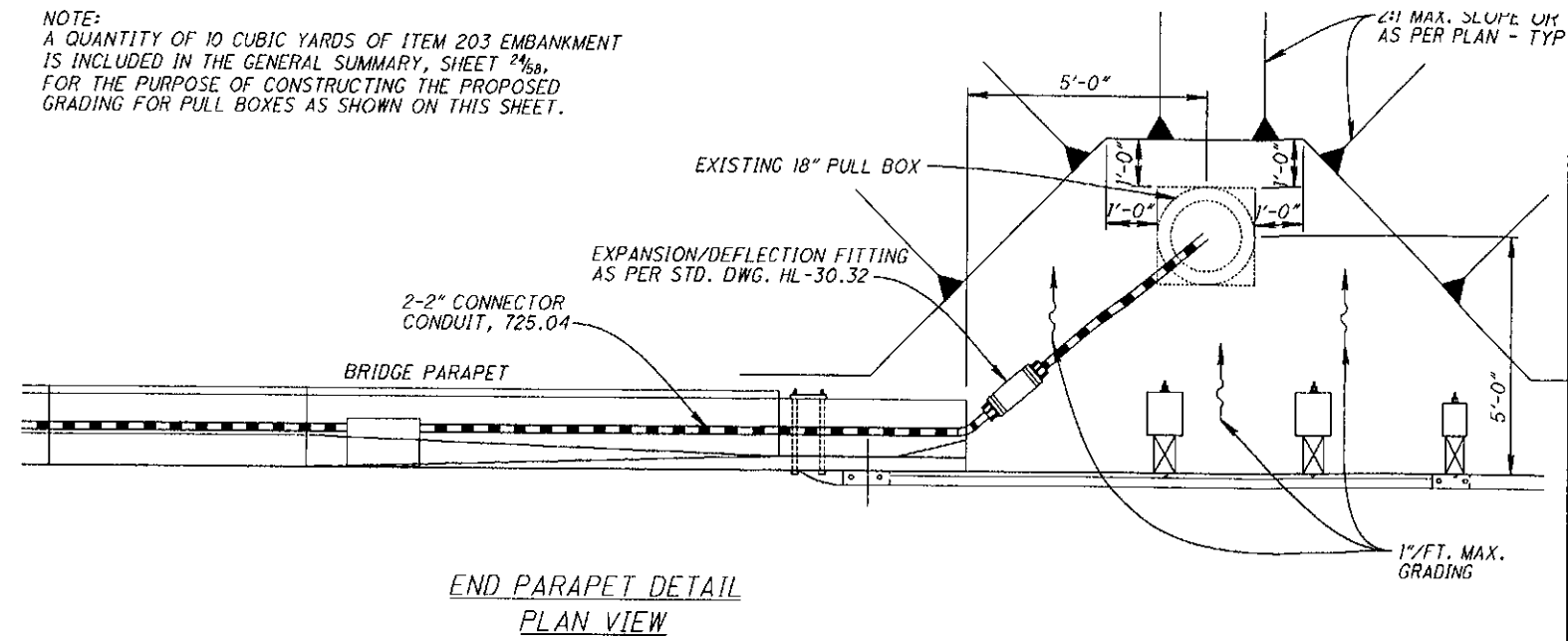
THE TOTAL QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR PAYMENT.



DESIGN AGENCY	DATE	REVIEWED	DATE	BRIDGE NOTES	BRIDGE NO. GUE-70-0901 L&R, GUE-70-0943 L,R,&A	SCALE
OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 5	2/1/12	TAG	STRUCTURE FILE NUMBER		I.R. TO OVER CUCH RAILROAD (0901) WILLS CREEK & C.R. 35 (0943)	GUE-70-6-55
						1/33
						26
						58

BRIDGE NO. GUE-70-0901 L&R, GUE-70-0943 L,R,&A
I.R. 70 OVER CUOH RAILROAD (0901) WILLS CREEK & C.R. 35 (0943)

NOTE:
A QUANTITY OF 10 CUBIC YARDS OF ITEM 203 EMBANKMENT
IS INCLUDED IN THE GENERAL SUMMARY, SHEET 248,
FOR THE PURPOSE OF CONSTRUCTING THE PROPOSED
GRADING FOR PULL BOXES AS SHOWN ON THIS SHEET.



ITEM	QUANTITIES (BRIDGE NO.)					TOTAL QUANTITY	UNIT	DESCRIPTION
	GUE-70-0901L	GUE-70-0901R	GUE-70-0943L	GUE-70-0943R	GUE-70-0943A			
625	2038	2038	1350	1484	1320	8230	FT.	CONDUIT, 2", 725.04
625	4	4	4	4	4	20	EACH	STRUCTURE JUNCTION BOX, TYPE 2
625	1	1	1	1	1	5	EACH	STRUCTURE GROUNDING SYSTEM

TOTAL QUANTITIES CARRIED TO THE GENERAL SUMMARY

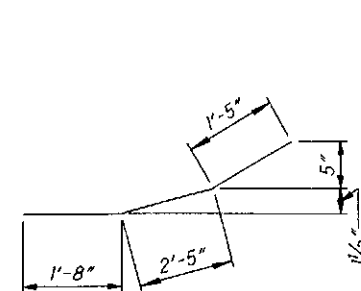
ITEM 625 CONDUIT, 2" 725.04

AS PER CMS 625.12 AFTER INSTALLATION OF THE CONDUIT AND PRIOR TO INSTALLATION OF THE CABLES, CHECK EACH CONDUIT RUN BY RODDING OR BY PUSHING A MANDREL THROUGH THE CONDUIT RUN AND REMOVING ANY OBSTRUCTION FOUND.

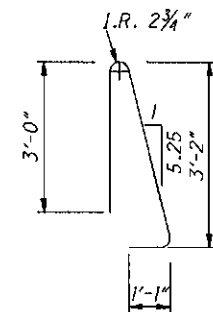
IF A CONDUIT IS TO REMAIN EMPTY UPON COMPLETION OF THE PROJECT, LEAVE A NO. 10 AWG COPPER CLAD, ALUMINUM CLAD OR GALVANIZED PULL WIRE IN THE CONDUIT AND CAP THE ENDS IN AN APPROVED MANNER.

REINFORCING STEEL SCHEDULE

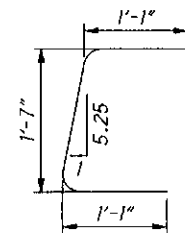
MARK	NO. REQ'D. (BRIDGE NO.)					TOTAL NO. REQ'D	SHAPE	LENGTH	WEIGHT
	GUE-70-0901L	GUE-70-0901R	GUE-70-0943L	GUE-70-0943R	GUE-70-0943A				
R501	32	32	32	32	32	160	ST.	10'-0"	1,669
R502	12	12	12	12	12	60	BT.	5'-6"	344
R503	20	20	20	20	20	100	ST.	5'-6"	574
R504	6	6				12	ST.	42'-6"	532
R505	12	12				24	ST.	19'-3"	482
R506	6	6				12	ST.	52'-9"	660
R507	930	930	571	644	556	3,631	BT.	7'-5"	28,088
R508	284	284	196	224	180	1,168	ST.	40'-0"	48,729
R509	40	40				80	ST.	1'-5"	118
R510	4	4				8	ST.	53'-5"	446
R511	8	8				16	ST.	30'-2"	503
R512					12	12	ST.	24'-1"	301
R513	14	14				28	ST.	7'-9"	226
R514	4	4				8	ST.	26'-7"	222
R515			16			16	ST.	31'-7"	527
R516			12			12	ST.	20'-8"	259
R517			6			6	ST.	9'-5"	59
R518			4			4	ST.	20'-6"	86
R519			6			6	ST.	10'-9"	67
R520			4			4	ST.	21'-8"	90
R521				28		28	ST.	6'-7"	192
R522				12		12	ST.	9'-2"	115
R523				12		12	ST.	11'-5"	143
R524				8		8	ST.	19'-10"	163
R525				8		8	ST.	22'-4"	186
R526					12	12	ST.	8'-10"	111
R601	792	792	556	612	556	3,308	BT.	3'-7"	17,804
R602	792	792	556	612	556	3,308	BT.	2'-7"	12,836
R603	138	138	15	32		323	BT.	4'-2"	2,021
R604	138	138	15	32		323	BT.	5'-0"	2,426
R605	32	32	16	32		112	BT.	4'-9"	799
R606	20	20	14	16	16	86	ST.	40'-0"	5,167
R607	4	4				8	ST.	5'-0"	60
R608	2	2				4	ST.	14'-7"	88
R609	4	4				8	ST.	1'-5"	17
R610	1	1				2	ST.	43'-0"	129
R611	2	2				4	ST.	19'-9"	119
R612	1	1				2	ST.	53'-3"	160
R613			2			2	ST.	24'-8"	74
R614			1			1	ST.	10'-1"	15
R615	8	8	4	8		28		4'-9"	
R616	SERIES OF 11	SERIES OF 11	SERIES OF 11	SERIES OF 11		SERIES OF 11	BT.	TO 5'-7"	2,390
R617			1			1	ST.	11'-3"	17
R618				2		2	ST.	10'-9"	32
R619				2		2	ST.	11'-11"	36
R620				2		2	ST.	9'-8"	29
R621			2			2	ST.	12'-10"	39
R622			4			12		4'-1"	
R621			SERIES OF 11	SERIES OF 11		SERIES OF 11	BT.	TO 4'-11"	892
R622			16	32		48	BT.	4'-1"	294
TOTAL (CARRIED TO BRIDGE SUMMARY)									130,336



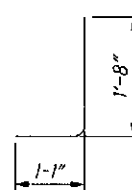
R502



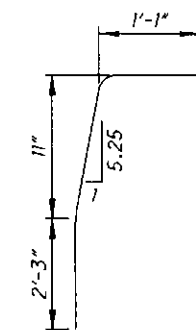
R507



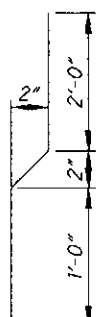
R601



R602



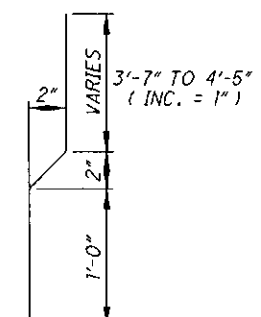
R603



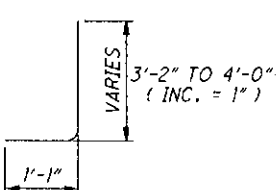
R604



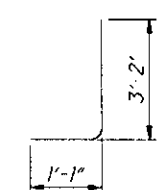
R605



R615
(SERIES OF 11)

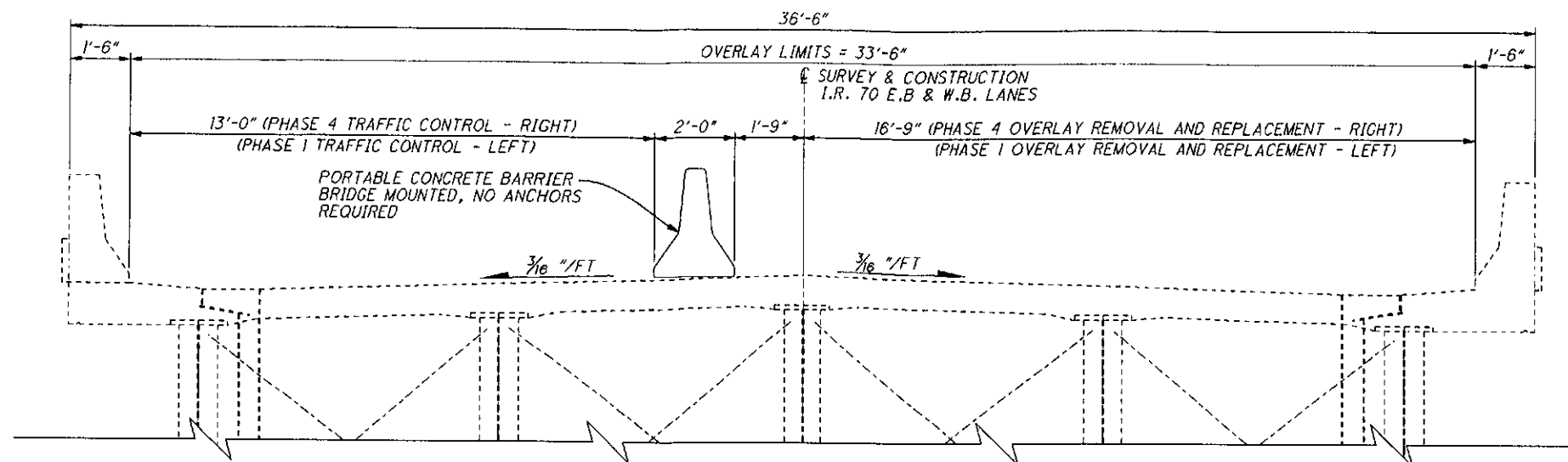


R621
(SERIES OF 11)

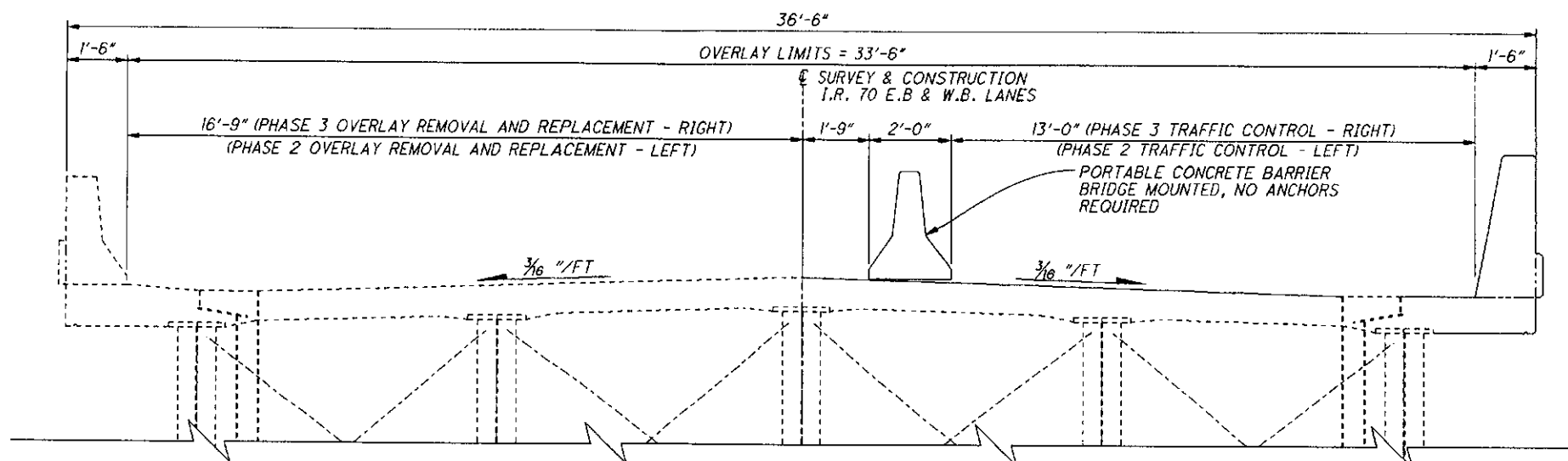


R622

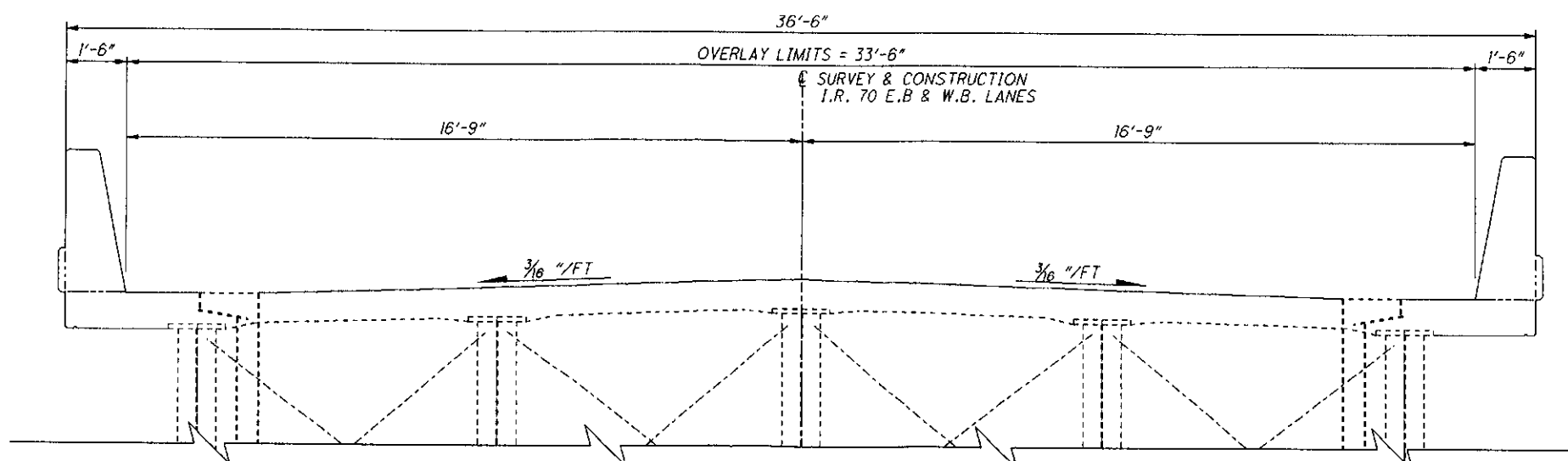
BENDING DIAGRAMS



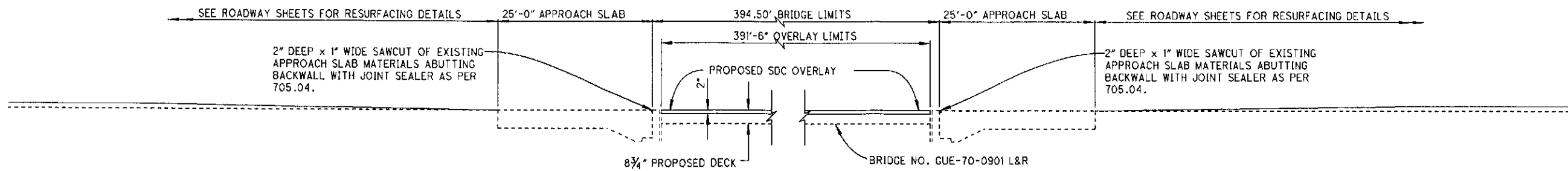
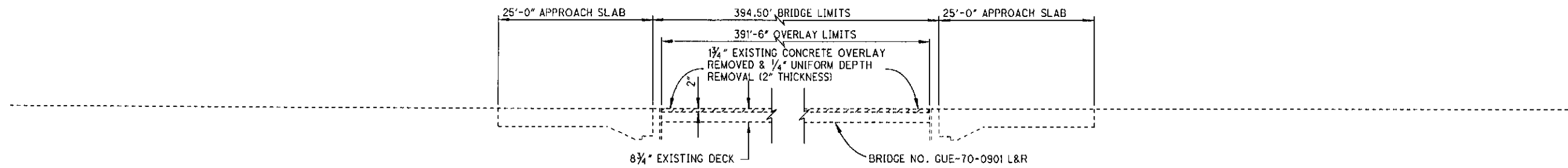
PHASE 4 TRAFFIC CONTROL (RIGHT = GUE-70-0901R)
PHASE 1 TRAFFIC CONTROL (LEFT = GUE-70-0901L)



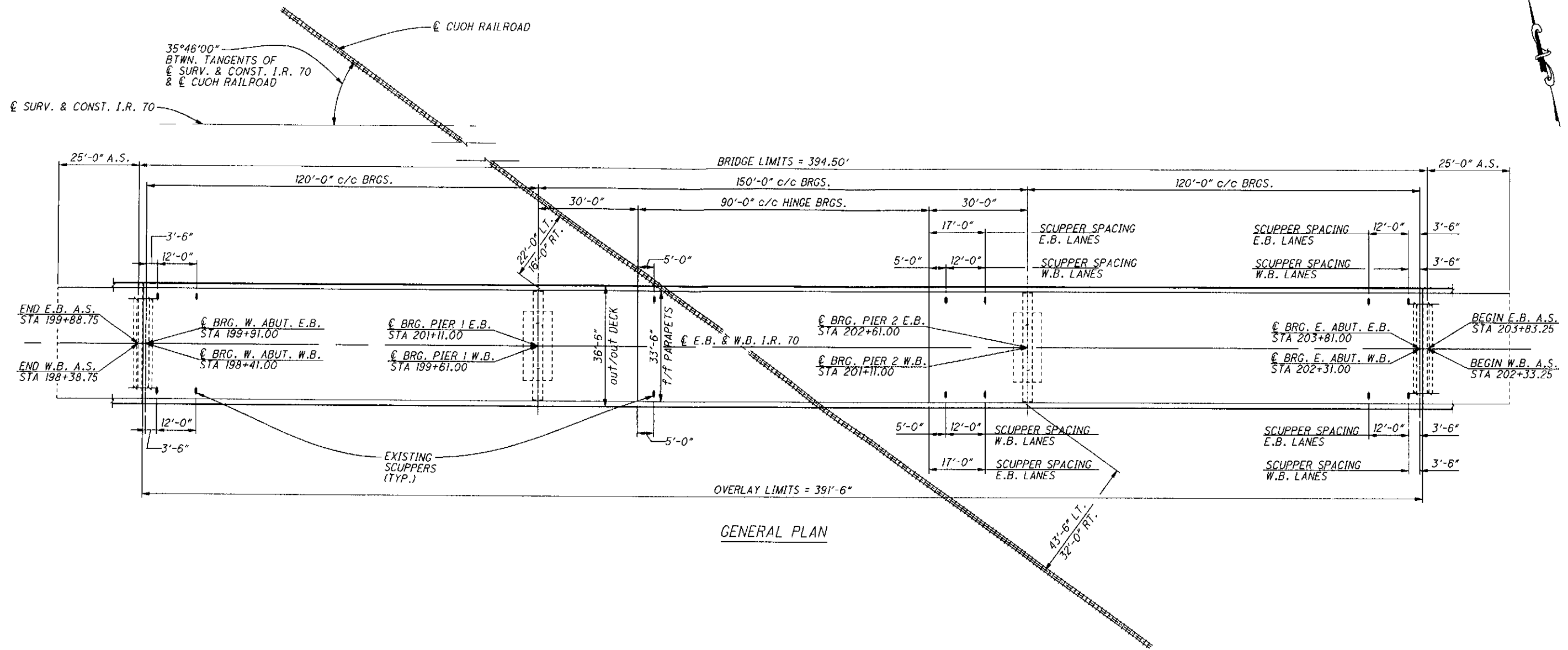
PHASE 3 TRAFFIC CONTROL (RIGHT = GUE-70-0901R)
PHASE 2 TRAFFIC CONTROL (LEFT = GUE-70-0901L)



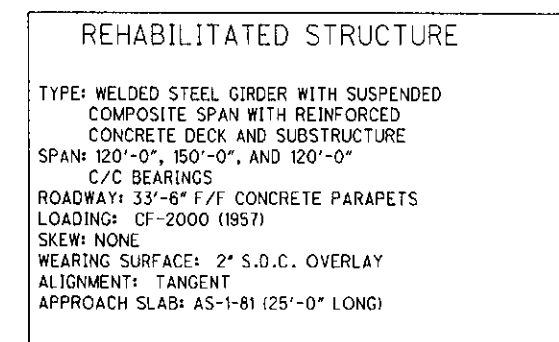
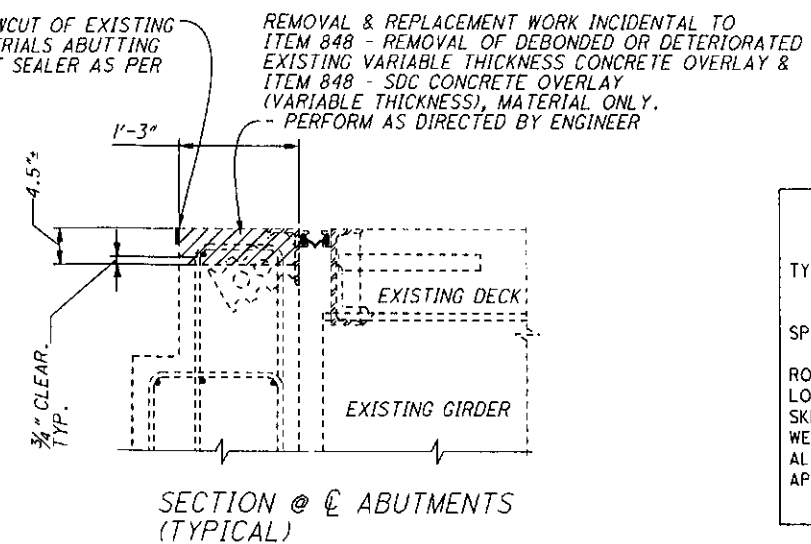
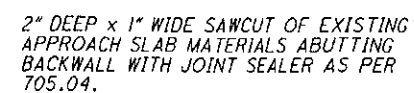
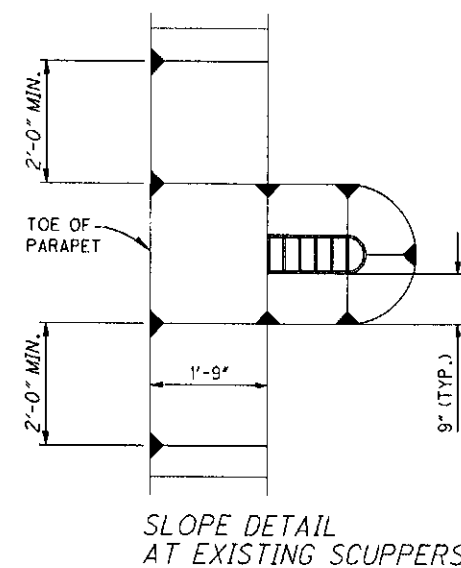
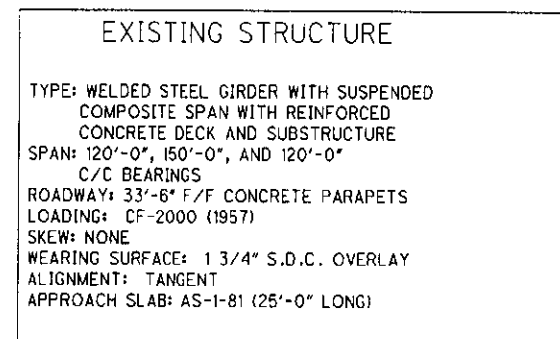
PROPOSED TRANSVERSE SECTION (LEFT & RIGHT)

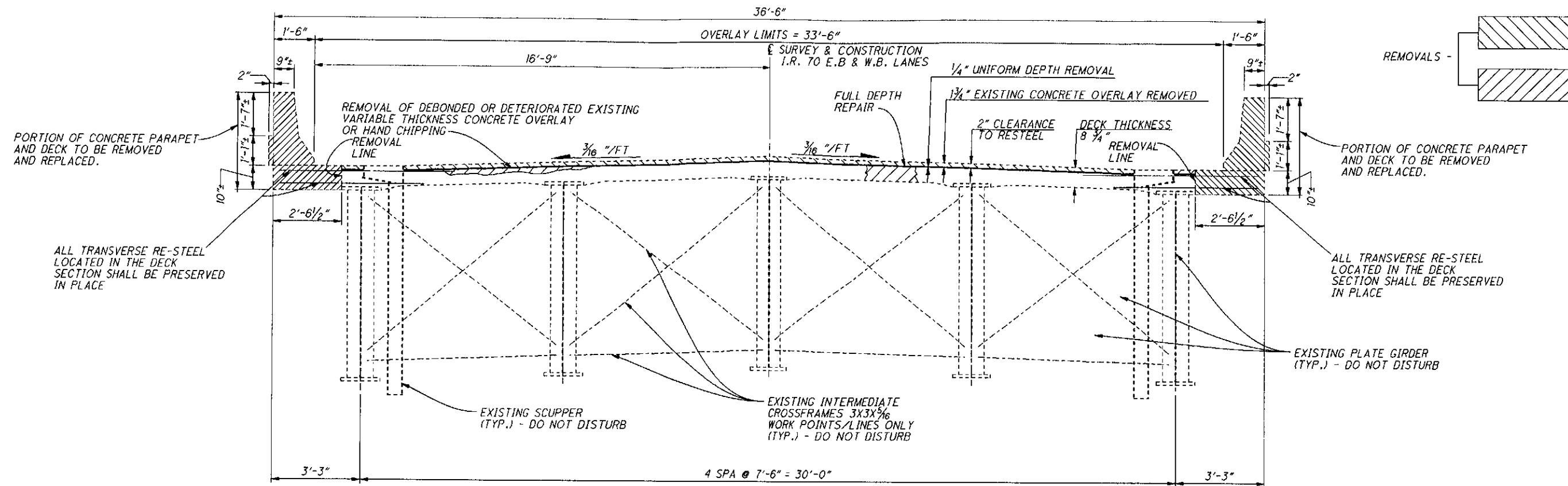


GUE-70-6.55		PROFILE SECTIONS		DESIGN AGENCY	
6 / 33		BRIDGE NO. GUE-70-0901 L&R I.R. 70 OVER CUOH RAILROAD		OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 5	
31 58		DESIGNED JDR CHECKED PSD		REVIEWED TAG STRUCTURE FILE NUMBER 3007148 L7 & 3007172 R7	
		DRAWN JDR REVISED		DATE 2/1/12	

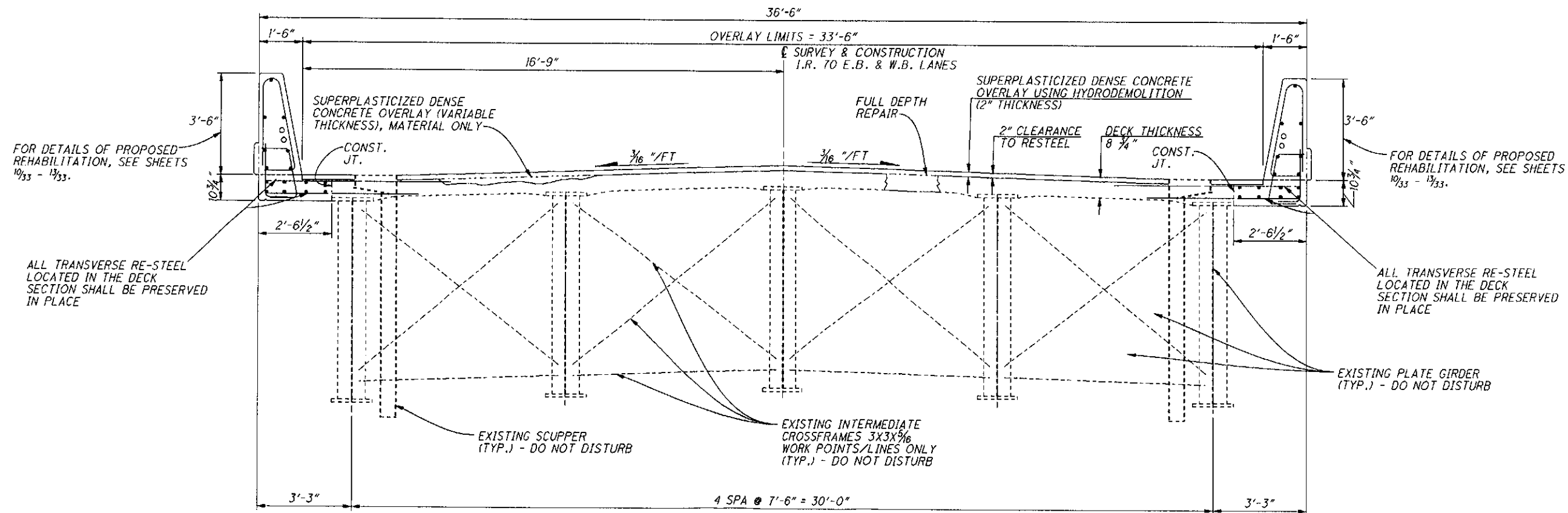


GENERAL PLAN

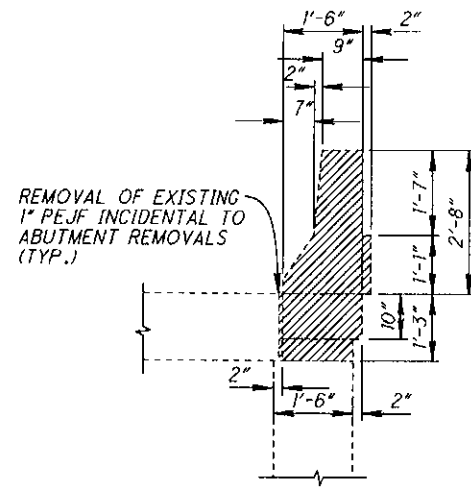




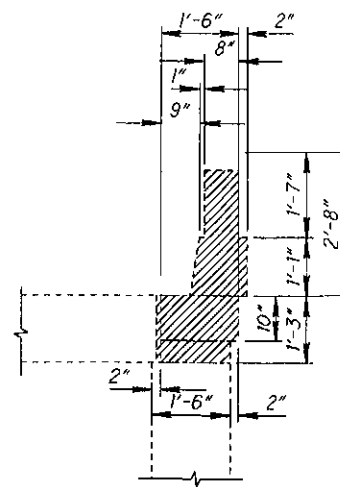
EXISTING TRANSVERSE SECTION



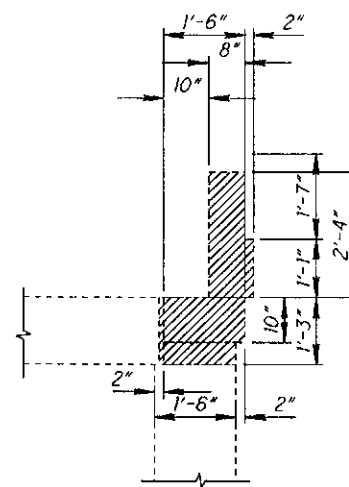
PROPOSED TRANSVERSE SECTION



SECTION (R-2)
31

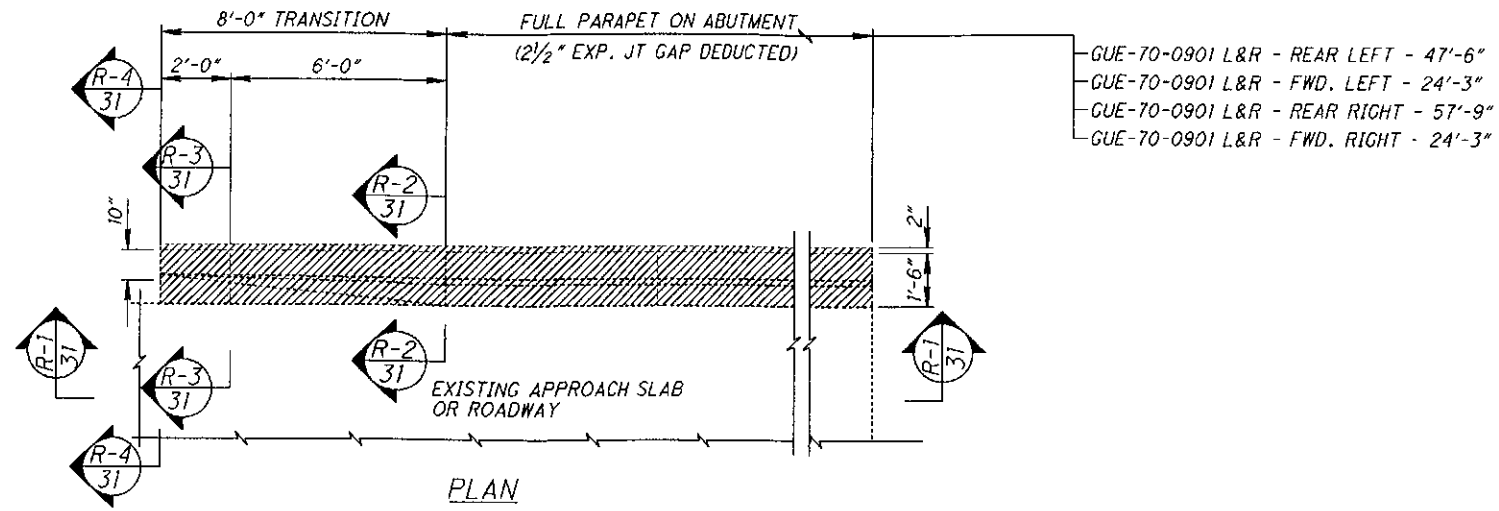


SECTION (R-3)
31

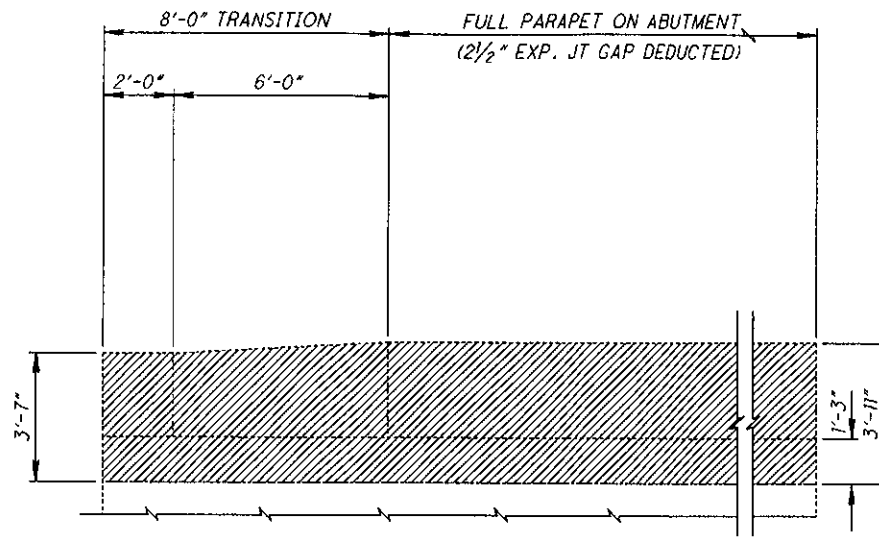


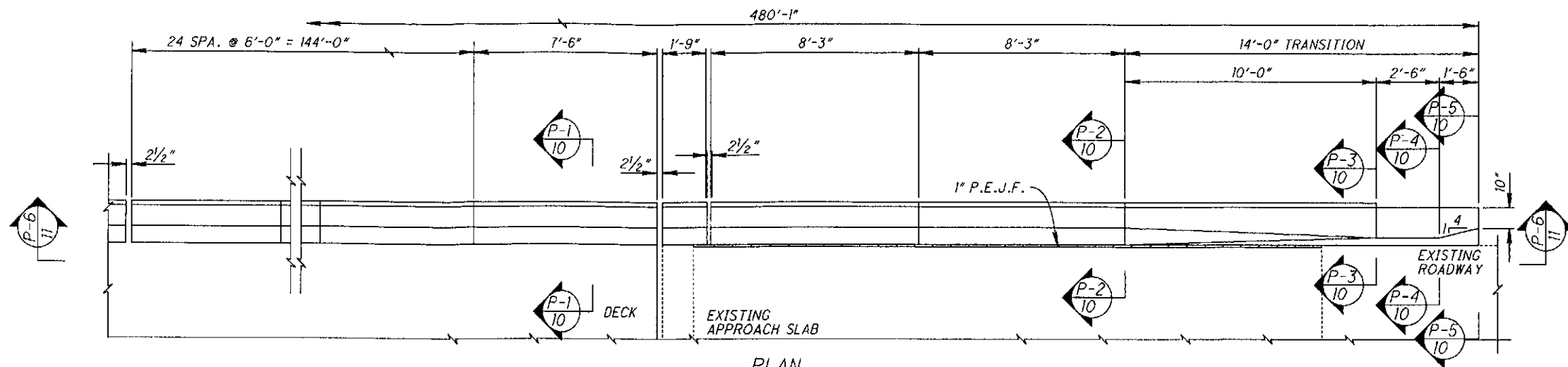
SECTION (R-4)
31

- REMOVALS

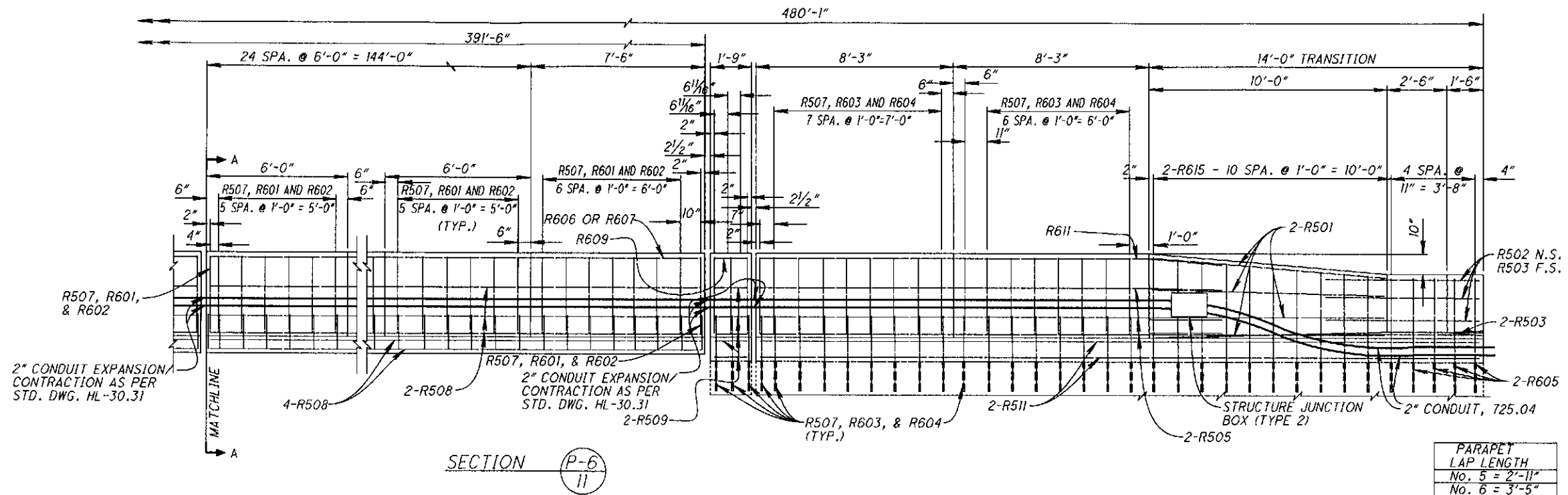


SECTION (R-1)
31





PLAN

SECTION

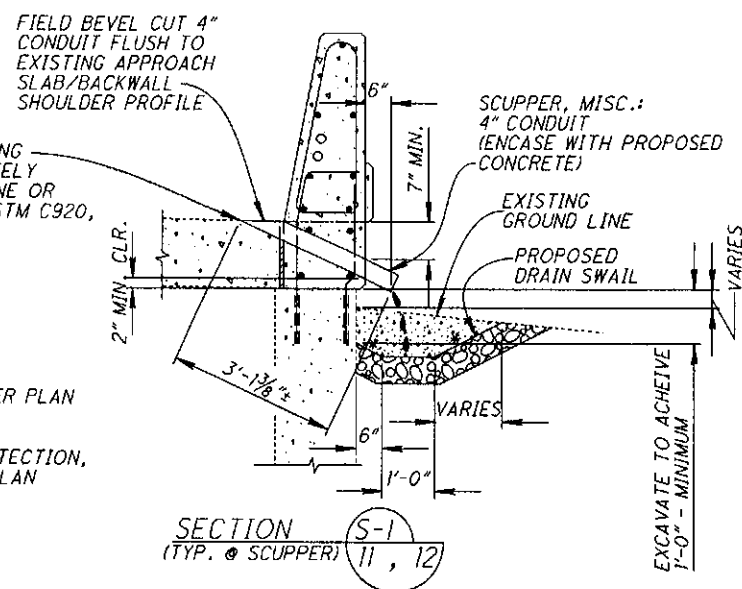
PARAPET
LAP LENGTH
No. 5 = 2'-11"
No. 6 = 3'-5"

DRILL MIN. 1/2" OVERSIZE HOLE IN EXISTING APPROACH SLAB/BACKWALL AND COMPLETELY SEAL PIPE TO HOLE WITH A POLYURETHANE OR POLYMERIC MATERIAL CONFORMING TO ASTM C920, TYPE S AS DIRECTED BY ENGINEER.

 - ITEM 202 - EXCAVATION, AS PER PLAN

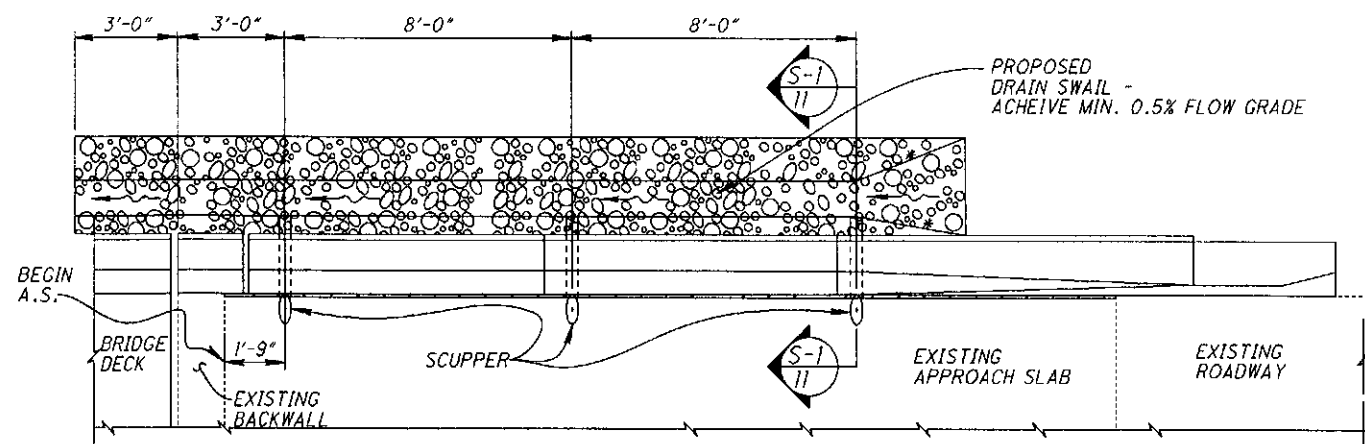
 - ITEM 601 - ROCK CHANNEL PROTECTION.
TYPE D WITH FILTER, AS PER PLAN

* - 2:1 MAX. SLOPES (TYPICAL)

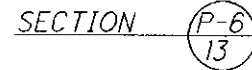


SECTION S-1
(TYP. @ SCUPPER) 11, 12

NOTE: SEE SHEET 12/33 FOR SCUPPER LOCATIONS
AT BRIDGE NO. GUE-70-0901 L , FORWARD
LEFT APPROACH SLAB



SCUPPER PLAN LOCATIONS - (GUE-70-0901 LEFT & RIGHT)
(ALL APPROACHES EXCEPT BRIDGE NO. GUE-70-0901 L , FORWARD LEFT)



38 58		13 / 33	GUE-70-6.55	RIGHT PARAPET DETAILS BRIDGE NO. GUE-70-0901 L&R I.R. 70 OVER CUOH RAILROAD	DESIGNED JDR	DRAWN JDR	REVIEWED TAG	DATE 2/1/12	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
					CHECKED RSD	REVIEWED	STRUCTURE FILE NUMBER 300148 L1 & 300172 RT		