

UTILITIES

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

BUCKEYE CABLEVISION 2700 OREGON ROAD NORTHWOOD, OH 43519	INDEPENDENTS FIBER NETWORK 1720 WILLIPIE ST. WAPAKONETA, OH 45895
OHIO GAS COMPANY P.O. BOX 528 BRYAN, OH 43506	LUCAS COUNTY SANITARY ENGINEER 1111 S. MCCORD ROAD HOLLAND, OH 43528
TOLEDO EDISON 6099 ANGOLA ROAD HOLLAND, OH 43528	BRIGHTSPEED 175 ASHLAND RD. MANSFIELD, OH 44902
VILLAGE OF SWANTON 219 CHESTNUT STREET SWANTON, OH 43558	WINDSTREAM 6777 ENGLE ROAD SUITE E MIDDLEBURG HEIGHTS, OH 44130 440-214-0209

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 4 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88 (ODOT VRS DERIVED)
GEOID: 2018

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE NORTH
COMBINED SCALE FACTOR: GRID=1.0000000
ORIGIN OF COORDINATE SYSTEM: (0, 0)

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

PLANED SURFACES

NO PLANED SURFACES SHALL BE OPEN TO THE PUBLIC FOR MORE THAN 7 DAYS. IF THE PLANED SURFACE IS OPEN FOR MORE THAN 7 DAYS, THEN IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR THE PAVEMENT FAILURES THAT OCCURRED AFTER THE 7 DAYS.

ITEM 202, CATCH BASIN REMOVED, AS PER PLAN

REMOVE CATCH BASINS AND KEEP BASIN CASTINGS FOR STORAGE TO BE PICKED UP BY LUCAS COUNTY GARAGE.

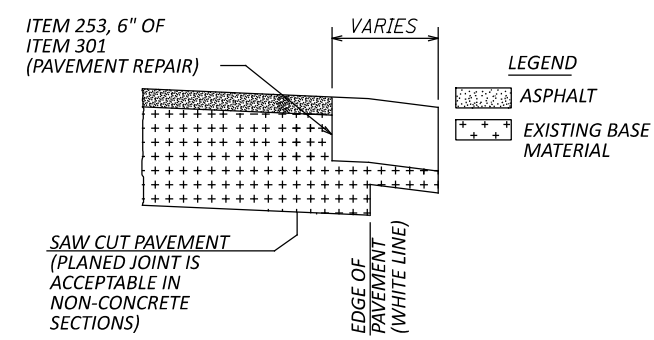
CONTACT INFORMATION:
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ITEM 253, PAVEMENT REPAIR

ALL EXISTING PAVEMENT AREAS WHICH WILL BE IN CONTACT WITH THE PAVEMENT REPAIR SHALL BE COATED WITH PG GRADE LIQUID ASPHALT (SIDES AND BOTTOM) AT AN APPLICATION RATE OF 0.25 GAL. PER SQ YD.)

THE FOLLOWING ESTIMATED QUANTITY ARE TO BE USED FOR 6" PAVEMENT REPAIR AS DIRECTED BY THE ENGINEER.

ITEM 253 - 15% PAVEMENT REPAIR 1293 CY
ESTIMATED QUANTITY CARRIED TO THE GENERAL SUMMARY.



NOTE: THE ENGINEER SHALL FIELD VERIFY ALL LOCATIONS PRIOR TO THE BEGINNING OF WORK. ANY ADJUSTMENTS NECESSARY SHALL BE AS DIRECTED BY THE ENGINEER.

ITEM 424, FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (448) AS PER PLAN

PER CMS 424.04, 448 DENSITY APPLIES TO THIS PROJECT. DENSITY WILL BE TESTED ACCORDING TO SUPPLEMENT 1055 PER CMS 448.02. THE DENSITY DISINCENTIVE PORTION OF TABLE 448.04-3. WILL BE WAIVED PROVIDING THAT THE CONTRACTOR MAKES EVERY EFFORT TO OBTAIN DENSITY AND DOES NOT USE VIBRATORY ROLLERS.

ASPHALT CONCRETE FOR DRIVEWAYS

THE FOLLOWING ESTIMATED QUANTITY FOR ASPHALT CONCRETE IS TO BE USED FOR ADJUSTING DRIVEWAYS AS DIRECTED BY THE ENGINEER:

ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449)

SR 64	135 CY
TOTAL CARRIED TO GENERAL SUMMARY	135 CY

THE JOB WILL NOT BE CONSIDERED COMPLETE UNTIL ALL DRIVEWAYS HAVE BEEN TREATED AS DIRECTED BY THE ENGINEER.

ITEM 442, ASPHALT CONCRETE, MISC: BUTT JOINT INTERSECTIONS

FOR THE WORK AT THE INTERSECTIONS THE CONTRACTOR SHALL PLACE ONE OF FOLLOWING TREATMENTS:

MILL THE BUTT JOINT AREA OF THE INTERSECTION THE THICKNESS OF THE ASPHALT BEING PLACED, PLACE ITEM 407 TACK COAT ON THE MILLED SURFACE AND PLACE 1" ITEM 424 FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B (449)

OR

MILL THE BUTT JOINT AREA OF THE INTERSECTION THE THICKNESS OF THE ASPHALT BEING PLACED, PLACE ITEM 407 TACK COAT ON THE MILLED SURFACE. PLACE 1 1/2" ITEM 442, ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A, (449)

WHICH EVER METHOD THE CONTRACTOR CHOOSES ALL WORK SHALL BE PAID FOR UNDER ITEM 442 ASPHALT CONCRETE, MISC: BUTT JOINT INTERSECTION CY. FOR QUANTITY CALCULATIONS A THICKNESS OF 1 1/2" WAS USED.

SEEDING AND MULCHING

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

659, TOPSOIL	20 CU. YD.
659, SEEDING AND MULCHING	183 SQ. YD.
659, REPAIR SEEDING AND MULCHING	9 SQ. YD.
659, INTER-SEEDING	9 SQ. YD.
659, COMMERCIAL FERTILIZER	0.03 TON
659, WATER	1 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.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

EXISTING FULL WIDTH CONCRETE PAVEMENT REPAIR REMOVALS AND FULL DEPTH ASPHALT RESTORATIONS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR CONCRETE PAVEMENT REMOVAL AT VARIOUS AREAS ALONG SR 64. IT IS ESTIMATED THAT APPROXIMATELY 9 EXISTING FULL WIDTH CONCRETE PAVEMENT REPAIRS HAVE BEEN COMPLETED ALONG SR 64 AND ARE PROPOSED TO BE REMOVED AND REPLACED WITH FULL DEPTH ASPHALT REPAIRS PRIOR TO PROPOSED ASPHALT RESURFACING. THESE LOCATIONS ARE TO BE USED AS DIRECTED BY THE ENGINEER AND WHERE WARRANTED.

QUANTITIES ARE BASED ON A 12" TO 18" THICKNESS OF ITEM 301, ASPHALT CONCRETE BASE, PG64-22 AND A LENGTH OF 5', WIDTH OF 25'.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

ITEM 202 - PAVEMENT REMOVED, AS PER PLAN	125 SQ. YD.
ITEM 301 - ASPHALT CONCRETE BASE, (449), AS PER PLAN, PG64-22	52 CU. YD.

ENVIRONMENTAL COMMITMENTS

ACCESS TO OAK OPENINGS METROPARK, SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES, EXCEPT FOR THE TIME NEEDED TO TEMPORARILY OCCUPY THE PROPERTY WITHIN THE CONSTRUCTION LIMITS, WHICH SHALL BE LESS THAN THE TIME NEEDED FOR CONSTRUCTION.

THE PROJECT SPONSOR AND/OR CONTRACTOR SHALL INSTALL APPROPRIATE CLOSURE SIGNS WITHIN PROPOSED CONSTRUCTION AREAS OF OAK OPENINGS METROPARK ALERTING USERS OF CONSTRUCTION ACTIVITIES AND ACCESS RESTRICTIONS OR CLOSURES. THE SIGNS SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES AND SHALL BE VISIBLE TO USERS OF THE PARKS TO EXPLAIN WHICH AREAS WILL BE CLOSED DURING CONSTRUCTION AND TO DIRECT USERS TO SECONDARY ACCESS POINTS. THE SIGNS SHALL MEET ALL ODOT AND LOCAL SPECIFICATIONS.

THE CONTRACTOR SHALL CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT AND METROPARKS TOLEDO. PRIOR TO THE START OF CONSTRUCTION.

ODOT WILL OBTAIN AND ADHERE TO ALL APPROPRIATE WATERWAY PERMITS PRIOR TO ANY WORK WITHIN A WETLAND OR BELOW THE ORDINARY HIGH WATER MARK OF ANY WATERWAY AND ALL SPECIAL PROVISIONS FOR WATERWAY PERMITS WILL BE INCLUDED IN THE PROJECT PLANS.

ODOT SHALL ENSURE A MUSSEL RECONNAISSANCE SURVEY MUST BE COMPLETED PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES BELOW THE ORDINARY HIGH WATER MARK FOR NEISS DITCH. SHOULD MUSSELS BE IDENTIFIED WITHIN NEISS DITCH, ODOT SHALL ENSURE A STATE PERMITTED MALACOLOGIST MUST COMPLETE A MUSSEL SALVAGE AND RELOCATION IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE OHIO MUSSEL SURVEY PROTOCOL PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES BELOW THE ORDINARY HIGH WATER MARK OF THE NEISS DITCH. THE PERMITTED MALACOLOGIST WILL SUBMIT THE SALVAGE AND RELOCATION WORK PLAN TO ODNR FOR REVIEW AND APPROVAL PRIOR TO ANY SURVEY WORK. THE RESULTS OF THE MUSSEL SURVEY AND/OR SALVAGE WORK MUST BE PROVIDED TO THE ODOT DISTRICT 2 ENVIRONMENTAL COORDINATOR (PHOENIX GOLNICK - PHOENIX.GOLNICK@DOT.OHIO.GOV OR 419-373-4329) FOR COORDINATION WITH ODNR. ODOT SHALL ENSURE THE MUSSEL SURVEY AND RELOCATION OCCURS, AND APPROVAL HAS BEEN RECEIVED FROM ODNR, PRIOR TO THE CONTRACTOR PERFORMING ANY WORK BELOW THE ORDINARY HIGHWATER MARK OF THE NEISS DITCH.

COORDINATION WITH METROPARKS TOLEDO (LUC-64-10.79 CULVERT)

THE CONTRACTOR SHALL NOTIFY METROPARKS TOLEDO AT LEAST 14 DAYS PRIOR IF TEMPORARY DRAWDOWN OF THE WATER SURFACE LEVEL IS REQUIRED TO COMPLETE THE WORK ASSOCIATED WITH THE LUC-64-10.79 CULVERT. AS PART OF THIS NOTIFICATION THE CONTRACTOR SHALL PROVIDE THE ESTIMATED VERTICAL DISTANCE AND METHOD OF DRAWDOWN. NO CLOSURES OF ANY TRAILS ON METROPARKS TOLEDO PROPERTY ADJACENT TO THE CULVERT WILL BE ALLOWED DURING DRAWDOWNS. ALL DRAWDOWNS SHALL ONLY OCCUR FROM JULY 15 - DECEMBER 31, 2025.

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DESIGN AGENCY



DESIGNER
NE

REVIEWER
JMF 08/09/24

PROJECT ID
96000

SHEET TOTAL
P.6 | 60

ITEM 614, MAINTAINING TRAFFIC

TIME LIMITATION ON A DETOUR

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD OF 130 CONSECUTIVE CALENDAR DAYS TO COMPLETE WORK ON STRUCTURES AT LUC-64-10.79, LUC-64-11.48 AND LUC-64-11.74. DURING THIS CLOSURE TRAFFIC MAY BE DETOURED AS DESCRIBED BELOW. THE CLOSURE FOR WORK AT LUC-64-10.79 SHALL BE LIMITED TO 30 CONSECUTIVE CALENDAR DAYS. THE CLOSURES AT LUC-64-11.48 AND LUC-64-11.74 SHALL NOT OCCUR CONCURRENTLY IN ORDER TO MAINTAIN LOCAL ACCESS.

DRAINAGE AND CURB WORK AT THE INTERSECTION OF SR 64 AND 20 A SHALL BE COMPLETED DURING THE 130 CLOSURE PERIOD. THE RIGHT LANE OF EB 20A MAY BE CLOSED UP TO 5 DAYS TO COMPLETED CURB AND DRAINAGE WORK.

A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$500 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMITS DESCRIBED ABOVE.

NOTICE OF CLOSURE SIGN

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

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE
ITEM DURATION SIGN DISPLAYED
OF CLOSURE TO PUBLIC

RAMP & >= 2 WEEKS 14 CALENDAR DAYS
PRIOR TO CLOSURE

ROAD > 12 HOURS 7 CALENDAR DAYS
& < 2 WEEKS PRIOR TO CLOSURE

CLOSURES <= 12 HOURS 2 BUSINESS DAYS
PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS PHONE NUMBER SHALL BE 419-373-4428.

ROAD CLOSED SIGN

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

ON EACH SIDE OF THE CLOSURE LOCATIONS

SIGNS AND BARRICADES

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

LUC-64-10.79 CLOSURE:
-R11-3 SIGNS ON TYPE III BARRICADES
TR-140 (REED RD)
CR-95 (MONCLOVA RD)

DESIGNATED LOCAL DETOUR ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

THE FOLLOWING ROUTES SHALL BE TREATED AS THE UNSIGNED DESIGNATED LOCAL DETOUR ROUTE:

- TR-140 (REED RD) FROM SR-64 TO TR-116 (GIRDHAM RD)
- TR-116 (GIRDHAM RD) FROM TR-140 (REED RD) TO SR-2
- CR-95 (MONCLOVA RD) FROM SR-64 TO TR-116 (GIRDHAM RD)

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE.

ITEM 202, PAVEMENT REMOVED 2250 SY
ITEM 301, 4" ASPHALT CONCRETE BASE, PG 64-22 (449) 250 CU. YD.
ITEM 254, 1 1/2" PAVEMENT PLANING, ASPHALT CONCRETE 4510 SY
ITEM 441, 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449) PG64-22 188 CY
ITEM 407, NON-TRACKING TACK COAT 248 GAL.
ITEM 617, COMPACTED AGGREGATE 42 CU. YD.
ITEM 642, CENTER LINE 0.20 MILE

NOTIFICATION OF TRAFFIC RESTRICTIONS

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

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

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE

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

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

MAINTAINING TRAFFIC (WABASH CANNONBALL TRAIL)

CONTRACTOR SHALL INSTALL ROAD CONSTRUCTION AHEAD AND BUMP SIGNS ON WABASH CANONBALL TRAIL. ADDITIONALLY, CONTRACTOR SHALL INSTALL ASPHALT WEDGES IMMEDIATELY AFTER MILLING AND ALSO AFTER PAVING INTERMEDIATE COURSE TO ADDRESS TRANSITIONING FROM WABASH CANNONBALL TRAIL SURFACE DOWN TO MILLED AND/OR INTERMEDIATE SURFACE AND BACK UP AGAIN. WEDGES SHALL MEET ADA REQUIREMENTS.

THE USE OF ADDITIONAL FLAGGERS AT THIS INTERSECTION SHALL BE USED WHILE WORKING ON SR 64 AND UP UNTIL THE ASPHALT WEDGES ARE INSTALLED.

ALL COSTS OF ABOVE WORK INCLUDED IN ITEM 614 MAINTAINING TRAFFIC.

ITEM 614, REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

ITEM 614, REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

ITEM 614, WORK ZONE MARKING SIGN	8 EACH
ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT	7 MILE
ITEM 614, WORK ZONE CENTER LINE, CLASS III, 642 PAINT	3.50 MILE
ITEM 614, WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	14 MILE
ITEM 614, WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	7 MILE

DESIGN AGENCY



DESIGNER
NE

REVIEWER
JMF 08/09/24

PROJECT ID
96000

SHEET TOTAL
P.7 | 60

Table with columns: SHEET NUM., PART., ITEM, ITEM EXT, GRAND TOTAL, UNIT, DESCRIPTION, SEE SHEET NO. Includes sections for ROADWAY, EROSION CONTROL, DRAINAGE, PAVEMENT, TRAFFIC CONTROL, and STRUCTURE REPAIR.

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER NE

REVIEWER JMF 08/09/24

PROJECT ID 96000

SHEET P.9

TOTAL 60

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
6	7	8	11	12	32	37	47	01/BRO/13	02/STR/04	03/S>2/04									
						37		37				511	34410	37	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			
						6		6				511	45710	6	CY	CLASS QC1 CONCRETE, ABUTMENT			
						67		67				512	10050	67	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)			
						72		72				516	10000	72	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL			
						7		7				516	13600	7	SF	1" PREFORMED EXPANSION JOINT FILLER			
						72		72				516	31000	72	FT	JOINT SEALER, 705.04			
						172		172				517	70100	172	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)			
						20		20				518	21200	20	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC			
						172		172				SPECIAL	51822300	172	FT	STEEL DRIP STRIP	43		
						84		84				518	40000	84	FT	6" PERFORATED CORRUGATED PLASTIC PIPE			
						40		40				518	40012	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE			
						200		200				526	25000	200	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")			
						72		72				526	90010	72	FT	TYPE A INSTALLATION			
						2		2				601	20010	2	CY	CRUSHED AGGREGATE SLOPE PROTECTION			
						10		10				601	34300	10	CY	ROCK CHANNEL PROTECTION, TYPE D WITHOUT FILTER			
						344		344				848	10201	344	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN, 2" THICK	36		
						344		344				848	20000	344	SY	SURFACE PREPARATION USING HYDRODEMOLITION			
						8		8				848	30201	8	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	36		
						75		75				848	50000	75	SY	HAND CHIPPING			
						LS		LS				848	50100	LS		TEST SLAB			
						344		344				848	50320	344	SY	EXISTING CONCRETE OVERLAY REMOVED, 1.25" THICK			
						75		75				848	50340	75	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY			
																STRUCTURE REPAIR (LUC-64-1174)			
						LS		LS				202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	46		
						140		140				202	22900	140	SY	APPROACH SLAB REMOVED			
						LS		LS				509	21300	LS		UNCLASSIFIED EXCAVATION			
						9,580		9,580				509	10000	9,580	LB	EPOXY COATED STEEL REINFORCEMENT			
						100		100				509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	46		
						406		406				510	10000	406	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT			
						32		32				511	34410	32	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			
						7		7				511	45710	7	CY	CLASS QC1 CONCRETE, ABUTMENT			
						53		53				512	10050	53	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)			
						80		80				516	10000	80	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL			
						7		7				516	13600	7	SF	1" PREFORMED EXPANSION JOINT FILLER			
						80		80				516	31000	80	FT	JOINT SEALER, 705.04			
						147		147				517	70100	147	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)			
						22		22				518	21200	22	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC			
						147		147				SPECIAL	51822300	147	FT	STEEL DRIP STRIP	52		
						92		92				518	40000	92	FT	6" PERFORATED CORRUGATED PLASTIC PIPE			
						40		40				518	40012	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE			
						200		200				526	25000	200	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")			
						80		80				526	90010	80	FT	TYPE A INSTALLATION			
						2		2				601	20010	2	CY	CRUSHED AGGREGATE SLOPE PROTECTION			
						10		10				601	34300	10	CY	ROCK CHANNEL PROTECTION, TYPE D WITHOUT FILTER			
						293		293				848	10201	293	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN, 2" THICK	46		
						293		293				848	20000	293	SY	SURFACE PREPARATION USING HYDRODEMOLITION			
						8		8				848	30201	8	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	46		
						75		75				848	50000	75	SY	HAND CHIPPING			
						LS		LS				848	50100	LS		TEST SLAB			
						293		293				848	50320	293	SY	EXISTING CONCRETE OVERLAY REMOVED, 1.25" THICK			
						75		75				848	50340	75	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY			
																MAINTENANCE OF TRAFFIC			
												614	11110	24	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE			
						8		8				614	12460	8	EACH	WORK ZONE MARKING SIGN			
						5		5				614	12500	5	EACH	REPLACEMENT SIGN			
						5		5				614	12600	5	EACH	REPLACEMENT DRUM			
												614	18600	10	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN			
						7		7				614	21100	7	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT			
						3.5		3.5				614	21550	3.5	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT			
						14		14				614	22110	14	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT			
						7		7				614	22360	7	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT			
																INCIDENTALS			
						LS		LS				614	11000	LS		MAINTAINING TRAFFIC			
												623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING			
												624	10000	LS		MOBILIZATION			

GENERAL SUMMARY

DESIGN AGENCY	
DESIGNER	NE
REVIEWER	JMF
PROJECT ID	08/09/24
SHEET	96000
TOTAL	P.10 60

STATION RANGE			DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	202	203	204	254	301	304	407	407	424	441	442	875	617	209	
							PAVEMENT REMOVED	EXCAVATION	SUBGRADE COMPACTION	PAVEMENT PLANING, ASPHALT CONCRETE, (3 1/4")	ASPHALT CONCRETE BASE, PG64-22, (449)	AGGREGATE BASE	TACK COAT, (0.055 GAL/SY)	NON-TRACKING TACK COAT, (0.085 GAL/SY)	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (448), AS PER PLAN, (1")	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446), (2 1/4")	ASPHALT CONCRETE, MISC.: BUTT JOINT INTERSECTIONS	LONGITUDINAL JOINT ADHESIVE	COMPACTED AGGREGATE	LINEAR GRADING	
			FT	FT	SY	SY	SY	CY	SY	CY	CY	GAL	GAL	CY	CY	CY	LB	CY	MILE		
470+57.75	TO	567+40.00	9682.25	25.50	27433.04	27399.33				27399.33			1506.96	2328.94	761.09	1712.46		1613.71	388.49	3.67	
567+40.00		567+90.00	50.00	25.00	138.89	141.09	141.09	39.19	141.09		15.68	39.19	7.76	11.99	3.92	8.82		8.33	2.01	0.02	
567+90.00		604+98.75	3708.75	25.30	10425.71	10443.01				10443.01			574.37	887.66	290.08	652.69		618.13	148.81	1.40	
604+98.75		605+48.75	50.00	26.00	144.44	144.89	144.89	40.25	144.89		16.10	40.25	7.97	12.32	4.02	9.06		8.33	2.01	0.02	
606+84.75		607+34.75	50.00	25.50	141.67	141.03	141.03	39.18	141.03		15.67	39.18	7.76	11.99	3.92	8.81		8.33	2.01	0.02	
607+34.75		618+45.14	1110.39	25.00	3084.42	3108.97				3108.97			170.99	264.26	86.36	194.31		185.07	44.55	0.42	
618+45.14		618+95.14	50.00	25.30	140.56	140.95	140.95	39.15	140.95		15.66	39.15	7.75	11.98	3.92	8.81		8.33	2.01	0.02	
620+18.05		620+68.05	50.00	25.30	140.56	140.54	140.54	39.04	140.54		15.62	39.04	7.73	11.95	3.90	8.78		8.33	2.01	0.02	
620+68.05		655+71.65	3503.60	25.50	9926.87	10092.54				10092.54			555.09	857.87	280.35	630.78		583.93	140.58	1.33	
INTERSECTIONS																					
T-140 (REED RD)																					
536+95.32 LT/RT																		8.40			
MONCLOVA RD																					
576+63.73 LT/RT																			12.37		
DEVAULT DR																					
57																			2.38		
SUBTOTALS							708.49	196.80	708.49	51043.86	78.72	196.80	2846.38	4398.95	1437.57	3234.52	23.14	3042.50		732.45	6.91
TOTALS CARRIED TO GENERAL SUMMARY							709	197	709	51044	79	197	2847	4399	1438	3235	24	3043		733	6.91

REF NO.	SHEET NO.	LOCATION	STATION TO STATION		202	202	202	202	606	606	606	606	626
					GUARDRAIL REMOVED	ANCHOR ASSEMBLY REMOVED, TYPE E	ANCHOR ASSEMBLY REMOVED, TYPE T	BRIDGE TERMINAL ASSEMBLY REMOVED	GUARDRAIL, TYPE MGS	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016	ANCHOR ASSEMBLY, MGS TYPE T	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	BARRIER REFLECTOR, TYPE 5, BIDIRECTIONAL
					FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH
G-1	26	RT	603+16.83	TO	605+67.16	175	1	1	212.5	1	1	1	4
G-2	26	LT	604+31.63		605+67.16	100		1	100		1	1	2
G-3	27	LT	606+66.34		608+53.06	150		1	150		1	1	3
G-4	27	RT	606+66.34		608+43.20	137.5	1	1	137.5	1	1	1	3
G-5	28	LT	608+93.33		611+50.73	237.5		2	237.5		2		
G-6	27	LT	618+20.70		619+21.68	62.5	1	1	62.5	1	1	1	2
G-7	27	RT	617+16.59		619+04.90	150	1	1	150	1	1	1	3
G-8	28	LT	620+08.37		622+07.69	162.5	1	1	162.5	1	1	1	3
G-9	28	RT	619+91.59		620+79.97	50	1	1	50	1	1	1	2
TOTALS CARRIED TO GENERAL SUMMARY					1225	6	4	8	1262.50	6	4	8	22

PAVEMENT/ROADWAY SUBSUMMARY

DESIGN AGENCY

 DESIGNER
 NE
 REVIEWER
 JMF 08/09/24
 PROJECT ID
 96000
 SHEET TOTAL
 P.11 | 60

ESTIMATED QUANTITIES (01/BRO/13)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET
202	22900	140	SY	APPROACH SLAB REMOVED				140	
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	2
503	21300	LS	LS	UNCLASSIFIED EXCAVATION				LUMP	
509	10000	12544	LB	EPOXY COATED STEEL REINFORCEMENT	939		11540		
509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCMENT, AS PER PLAN				100	2
510	10000	440	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	112		328		
511	45710	6	CY	CLASS QC1 CONCRETE, ABUTMENT	6				
511	34410	37	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			37		
512	10050	67	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	16		41		
516	10000	72	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL				72	
516	31000	72	FT	JOINT SEALER, 705.04				72	
516	13600	7	SF	1" PREFORMED EXPANSION JOINT FILLER	10				
517	70100	172	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)			172		
518	21200	20	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	20				
518	40000	84	FT	6" PERFORATED CORRUGATED PLASTIC PIPE				84	
518	40012	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE				40	
SPECIAL	51822300	172	FT	STEEL DRIP STRIP			172		
526	25000	200	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")				200	
526	90010	72	FT	TYPE A INSTALLATION				72	
601	20010	2	CY	CRUSHED AGGREGATE SLOPE PROTECTION				2	
601	34300	10	CY	ROCK CHANNEL PROTECTION, TYPE D WITHOUT FILTER				10	
848	10201	344	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN, 2" THICK			344		2
848	20000	344	SY	SURFACE PREPARATION USING HYDRODEMOLITION			344		
848	30201	8	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN			8		2
848	50000	75	SY	HAND CHIPPING			75		
848	50100	LS	LS	TEST SLAB				LUMP	
848	50320	344	SY	EXISTING CONCRETE OVERLAY REMOVED, 1.25" THICK			344		
848	50340	75	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY			75		

ESTIMATED QUANTITIES
 BRIDGE NO. LUC-64-1148
 SR 64 OVER SWAN CREEK

SFN
 4802527

DESIGN AGENCY



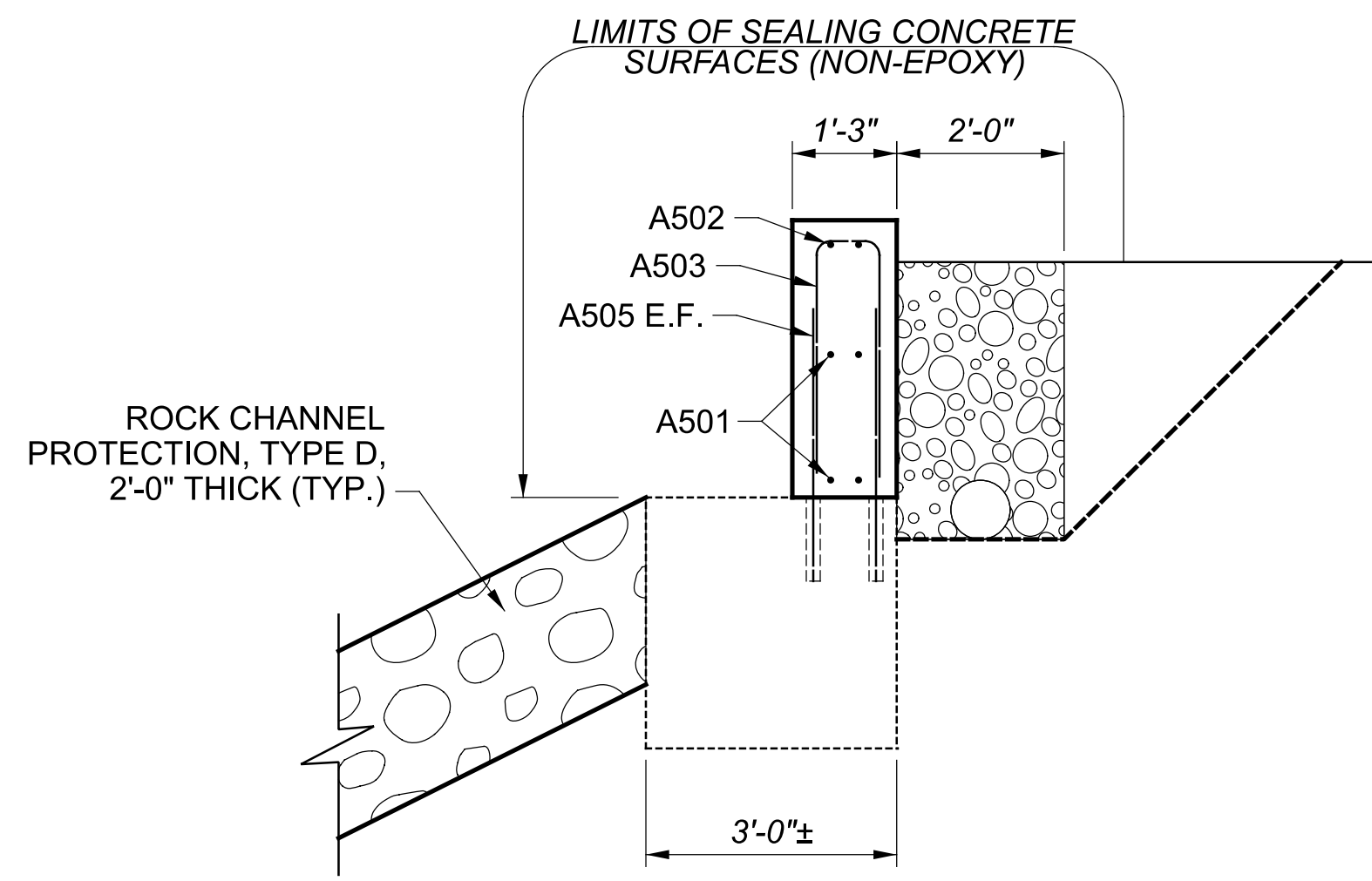
DESIGNER: NMS
 CHECKER: DJG

REVIEWER:
 NMS 08/12/24

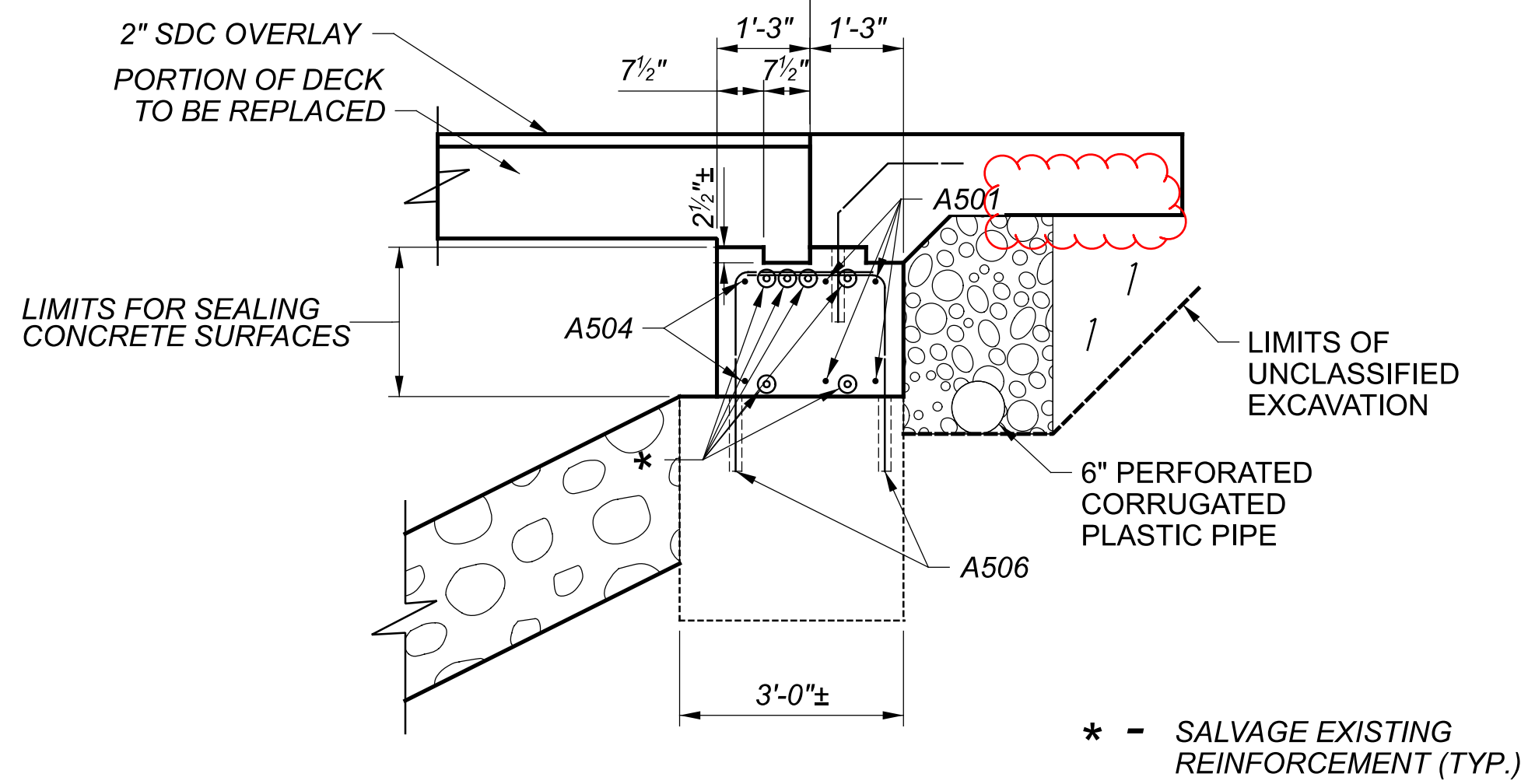
PROJECT ID:
 96000

SUBSET	TOTAL
3	10

SHEET	TOTAL
37	60

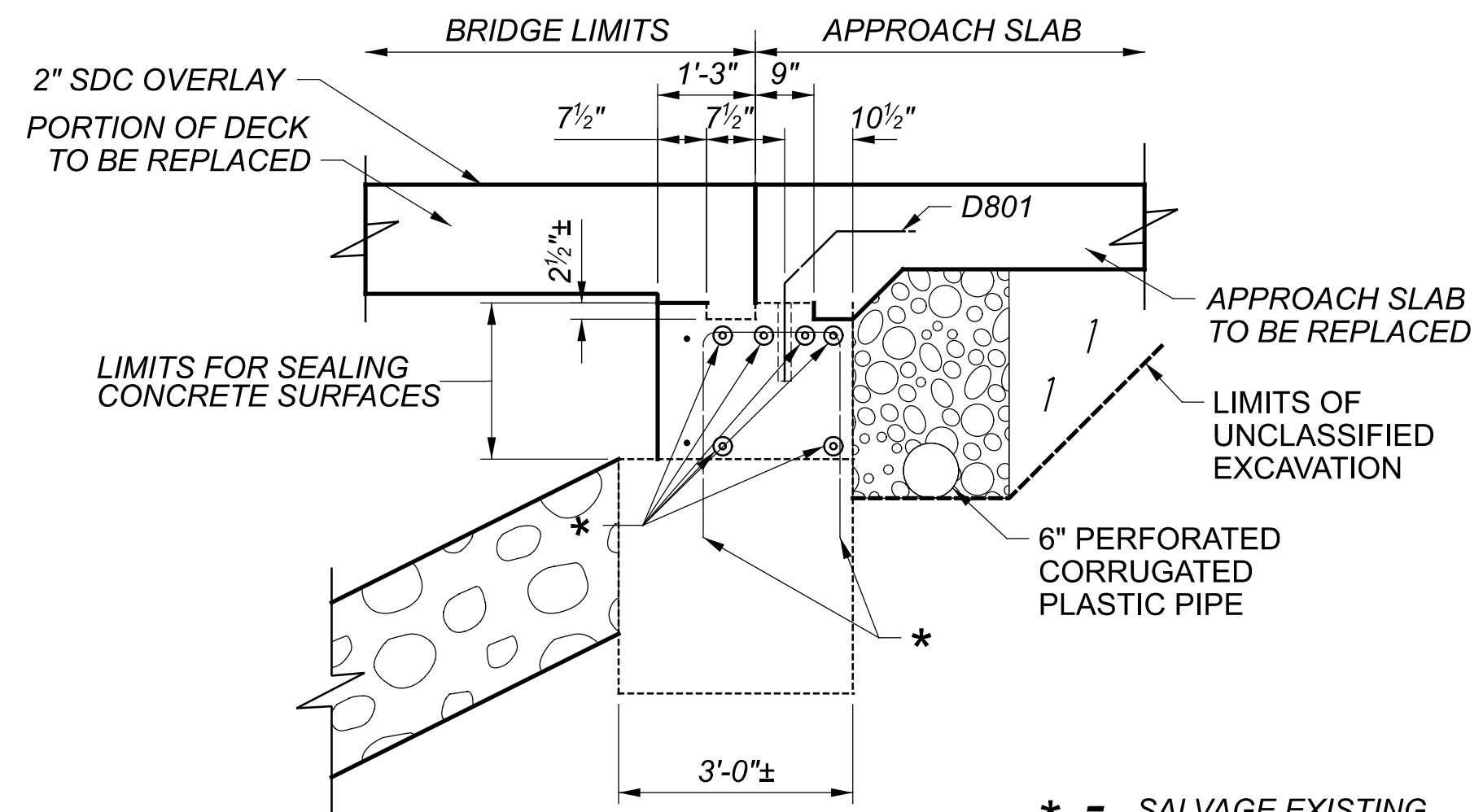


SECTION A-A



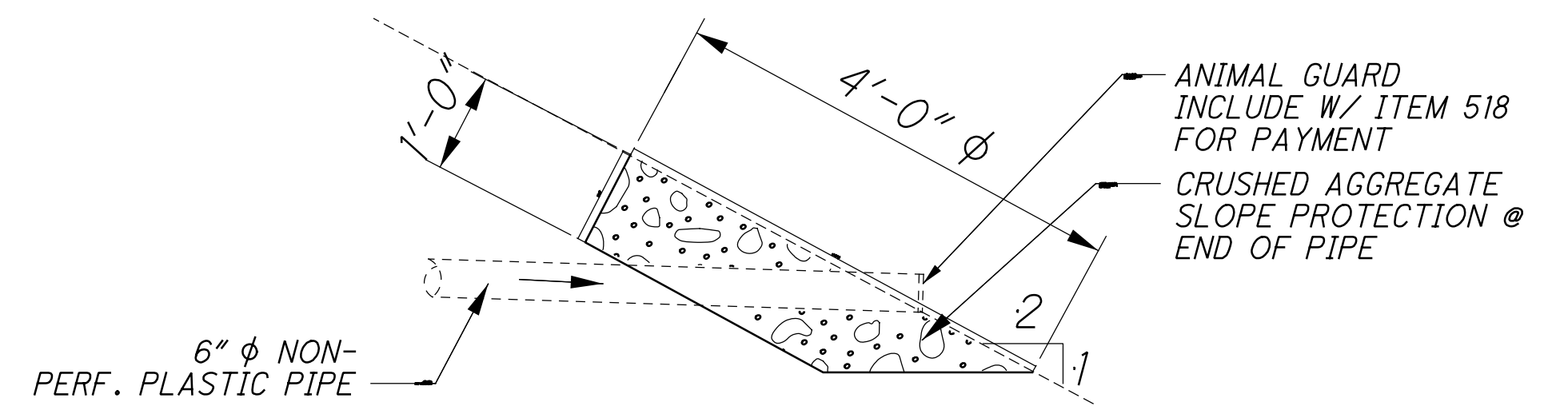
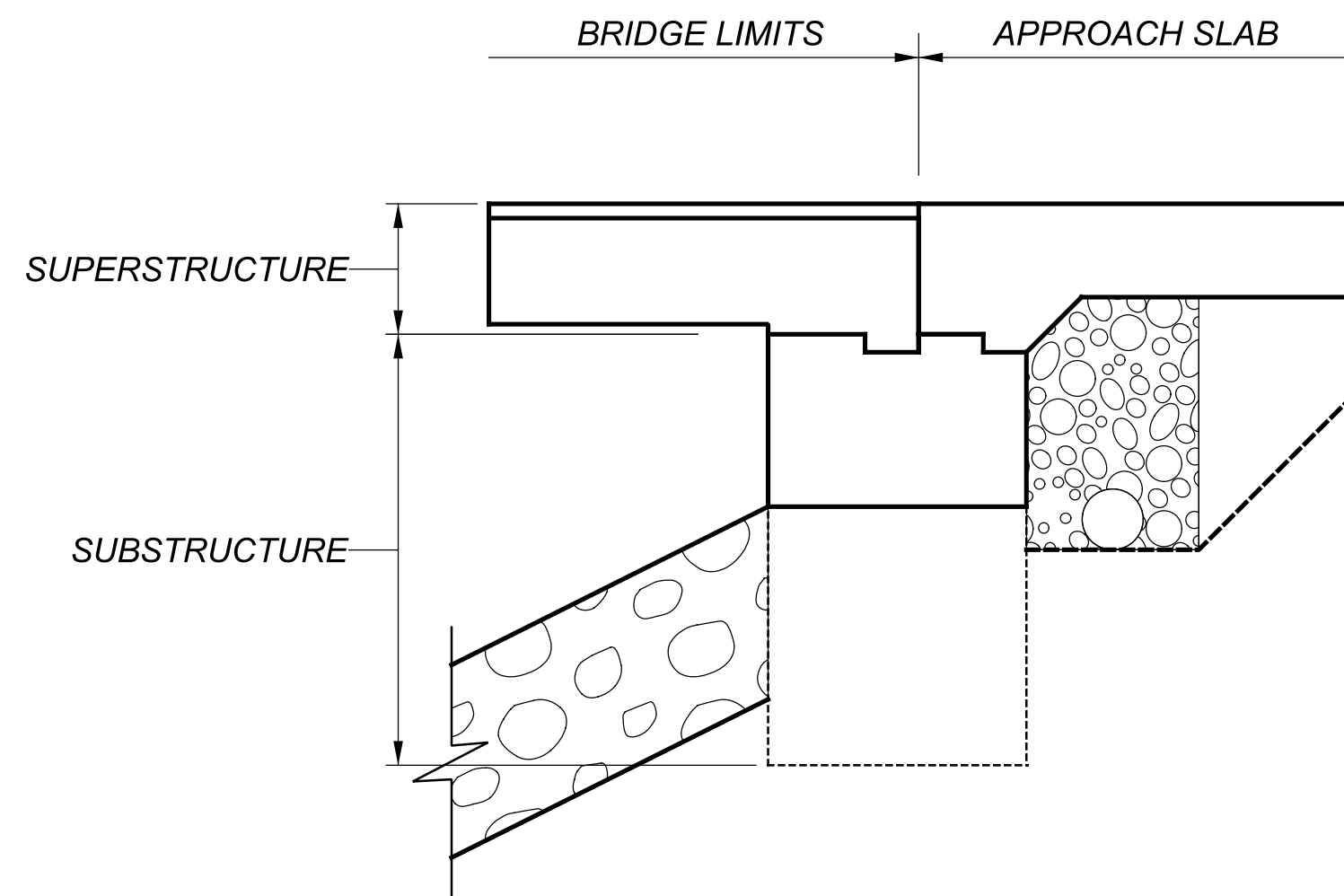
SECTION B-B

* - SALVAGE EXISTING REINFORCEMENT (TYP.)



SECTION C-C

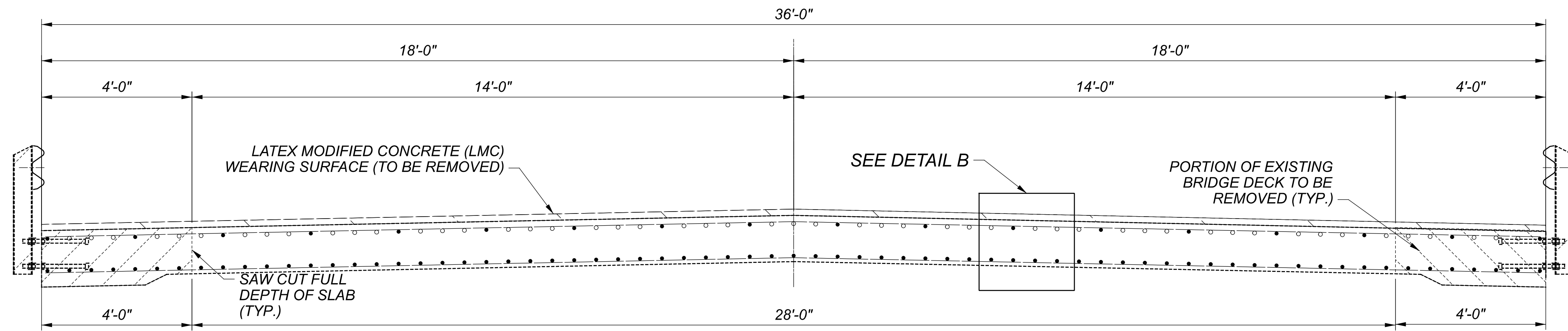
* - SALVAGE EXISTING REINFORCEMENT (TYP.)



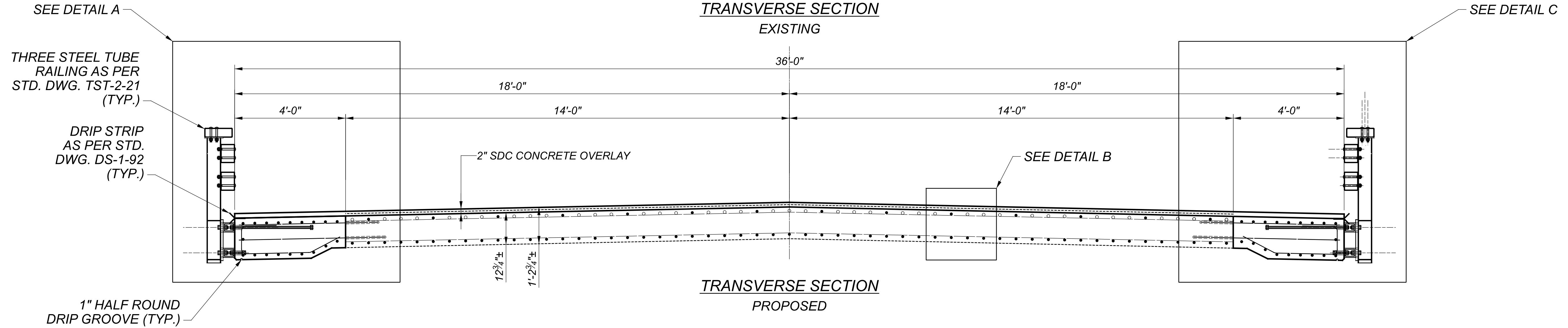
TYPICAL BACKWALL DRAIN OUTLET DETAIL



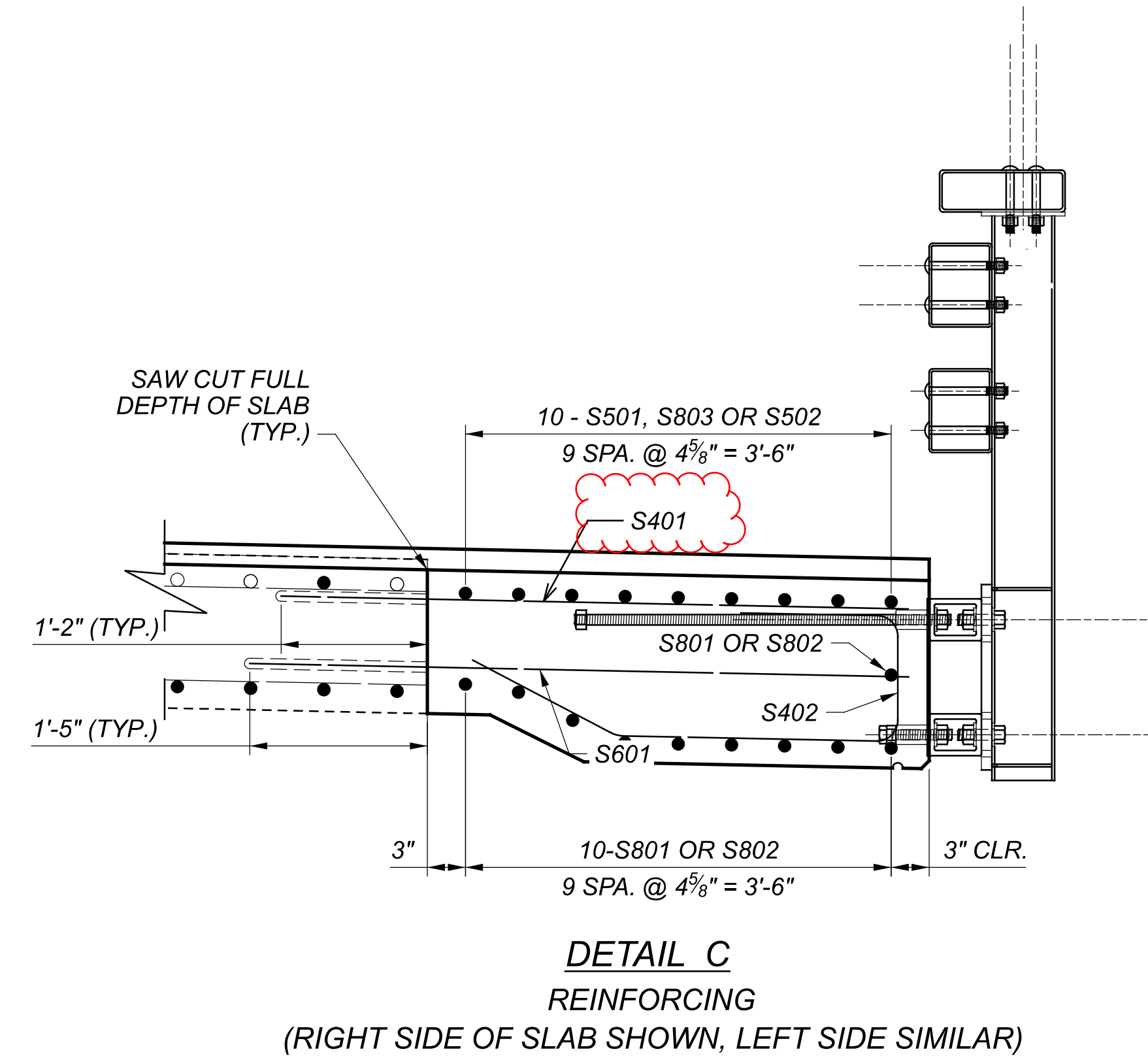
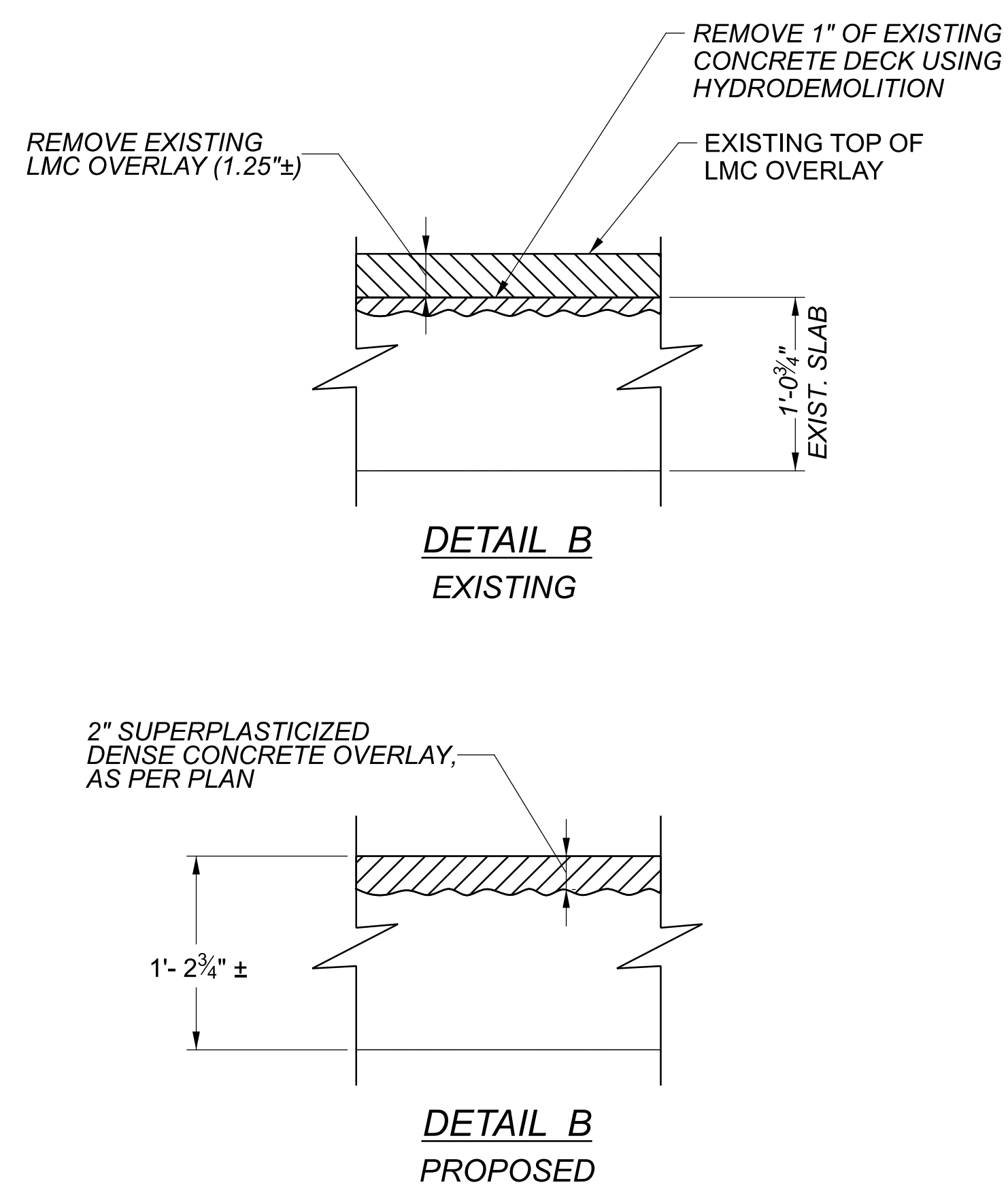
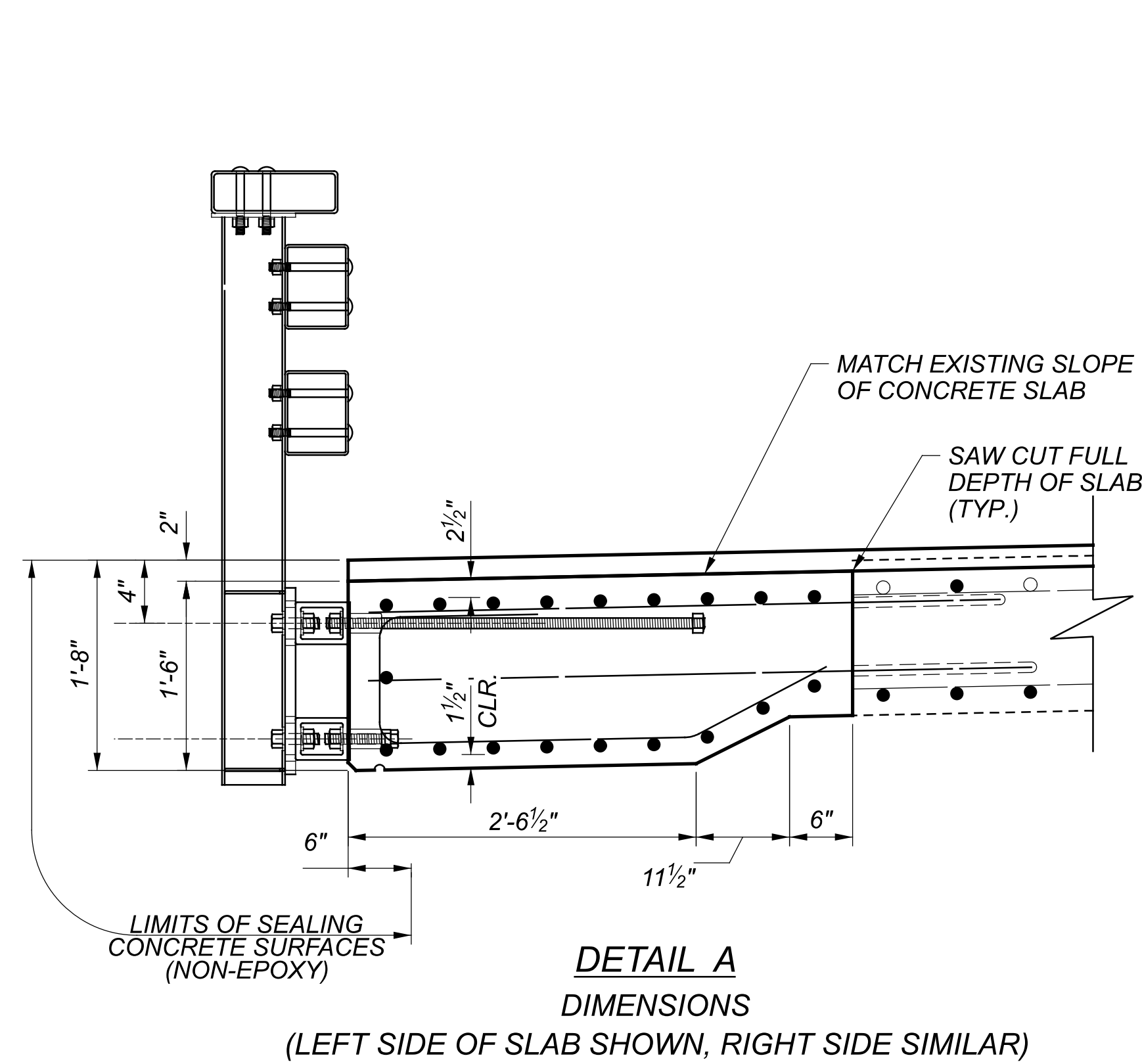
DESIGNER	CHECKER
NMS	DJG
REVIEWER	
NMS 8/12/24	
PROJECT ID	
96000	
SUBSET	TOTAL
6	10
SHEET	TOTAL
40	60



**TRANSVERSE SECTION
EXISTING**

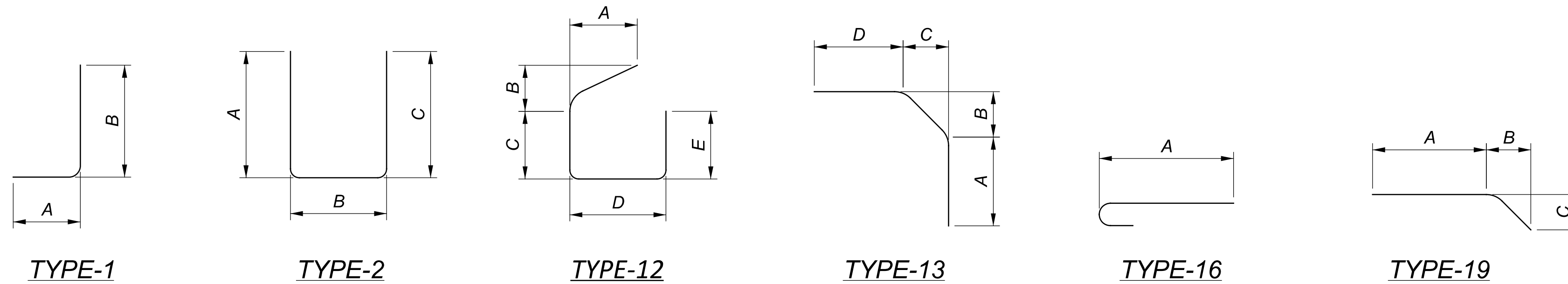


**TRANSVERSE SECTION
PROPOSED**



SFN	
4802527	
DESIGN AGENCY	
DESIGNER	CHECKER
NMS	DJG
REVIEWER	
NMS 08/12/24	
PROJECT ID	
96000	
SUBSET	TOTAL
8	10
SHEET	TOTAL
42	60

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS						
		TOTAL				A	B	C	D	E	R	INC
A501		8	22'-2"	186	2	10'-9"	0'-11"	10'-9"				
A502		8	5'-10"	49	2	2'-7"	0'-11"	2'-7"				
A503		12	5'-6"	69	2	2'-5"	0'-11"	2'-5"				
A504		8	6'-10"	57	1	4'-4"	2'-8"					
A505		24	3'-10"	96	STR							
A506		32	4'-6"	151	1	2'-0"	2'-8"					
D801		48	3'-1"	396	13	1'-3"	0'-8"	0'-8"	1'-0"			
SUB-TOTAL				1,004								
S401		172	5'-0"	574	STR							
S402		148	6'-5"	634	12	0'-10 3/4"	1'-9 1/2"	2'-2 1/2"	1'-2"	1'-3"		
S501		40	16'-1"	671	STR							
S502		20	11'-8"	243	STR							
S601		156	5'-3"	1230	STR							
S801		40	30'-4"	3240	16	29'-6"						
S802		20	36'-6"	1949	STR							
S803		40	28'-1"	2999	STR							
SUB-TOTAL				11,540								



NOTES

ALL REINFORCING STEEL SHALL BE EPOXY COATED.

THE BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT INDICATES THE BAR SIZE. FOR EXAMPLE, AN A501 IS A #5 BAR. DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. "R" INDICATES THE INSIDE RADIUS.

REINFORCING STEEL MAY REQUIRE FIELD CUTTING OR BENDING TO BE PROPERLY FITTED. PAYMENT SHALL BE INCLUDED WITH THE ASSOCIATED CONCRETE ITEM.

REINFORCING STEEL LIST
 BRIDGE NO. LUC-64-1148
 SR 64 OVER SWAN CREEK

SFN 4802527

DESIGN AGENCY



DESIGNER: NMS
 CHECKER: DJG

REVIEWER

NMS 08/12/24

PROJECT ID

96000

SUBSET TOTAL

10 10

SHEET TOTAL

44 60

ESTIMATED QUANTITIES (01/BRO/13)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET
202	22900	140	SY	APPROACH SLAB REMOVED				140	
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	2
503	21300	LS	LS	UNCLASSIFIED EXCAVATION				LUMP	
509	10000	9580	LB	EPOXY COATED STEEL REINFORCEMENT	1251		8547		
509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCMENT, AS PER PLAN				200	2
510	10000	406	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	126		280		
511	45710	7	CY	CLASS QC1 CONCRETE, ABUTMENT	7				
511	34410	32	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			32		
512	10050	53	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	18		35		
516	10000	80	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL				72	
516	31000	80	FT	JOINT SEALER, 705.04				72	
516	13600	7	SF	1" PREFORMED EXPANSION JOINT FILLER	7				
517	70100	147	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)			147		
518	21200	22	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	22				
518	40000	92	FT	6" PERFORATED CORRUGATED PLASTIC PIPE				92	
518	40012	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE				40	
SPECIAL	51822300	147	FT	STEEL DRIP STRIP			147		
526	25000	200	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")				200	
526	90010	80	FT	TYPE A INSTALLATION				72	
601	20010	2	CY	CRUSHED AGGREGATE SLOPE PROTECTION				2	
601	34300	10	CY	ROCK CHANNEL PROTECTION, TYPE D WITHOUT FILTER				10	
848	10201	293	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN, 2" THICK			293		2
848	20000	293	SY	SURFACE PREPARATION USING HYDRODEMOLITION			293		
848	30201	8	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN			8		2
848	50000	75	SY	HAND CHIPPING			75		
848	50100	LS	LS	TEST SLAB				LUMP	
848	50320	293	SY	EXISTING CONCRETE OVERLAY REMOVED, 1.25" THICK			293		
848	50340	75	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY			75		

ESTIMATED QUANTITIES
 BRIDGE NO. LUC-64-1174
 SR 64 OVER NEISS DITCH

SFN
 4802551

DESIGN AGENCY



DESIGNER
 NMS

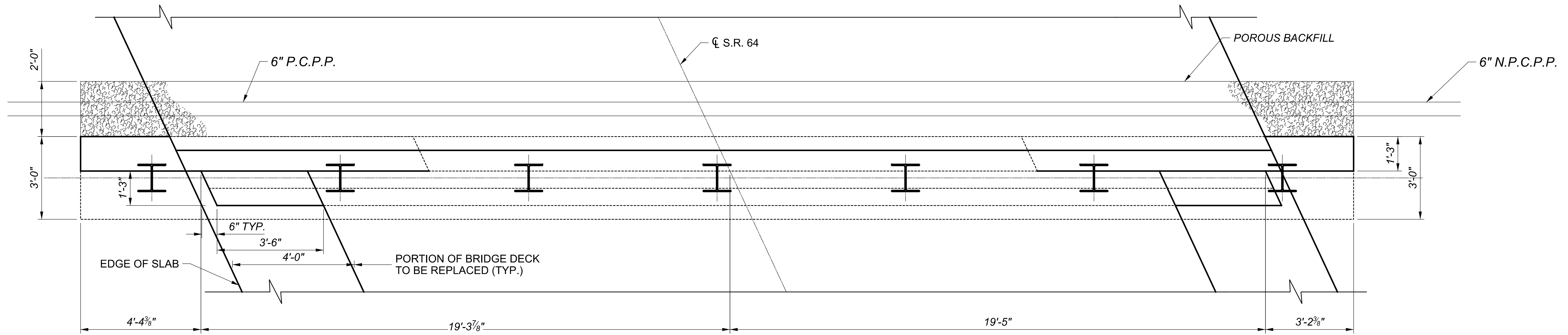
CHECKER
 DJG

REVIEWER
 NMS 08/12/24

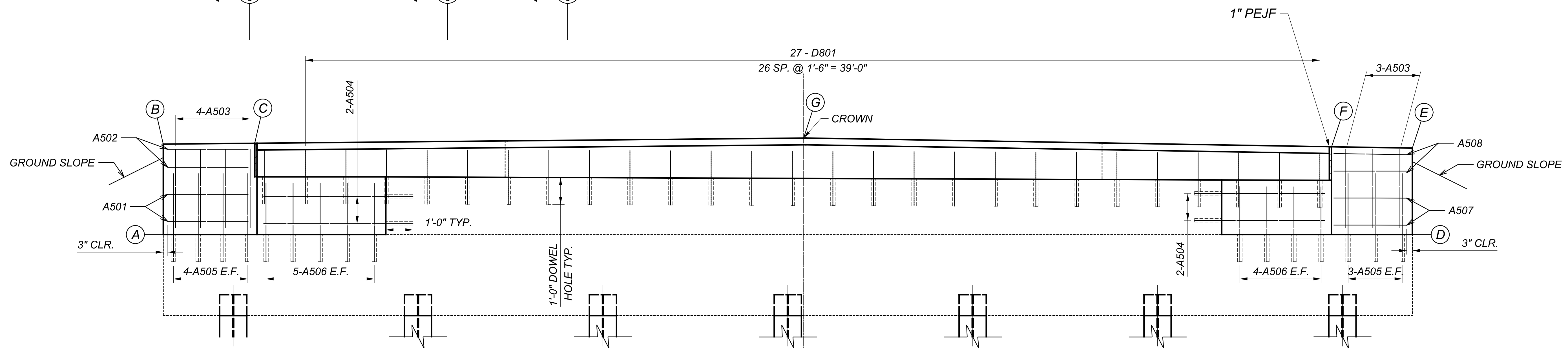
PROJECT ID
 96000

SUBSET	TOTAL
3	10

SHEET	TOTAL
47	60



ABUTMENT PLAN



ABUTMENT ELEVATION

LOCATION	DIMENSION/ELEVATION						
	Elev. A	Elev. B	Elev. C	DIM. D	DIM. E	DIM. F	DIM. G
REAR ABUTMENT	660.88	663.51	663.76	660.88	663.51	663.76	664.04
FORWARD ABUTMENT	661.26	663.84	664.09	661.26	663.84	664.09	664.37

NOTES:

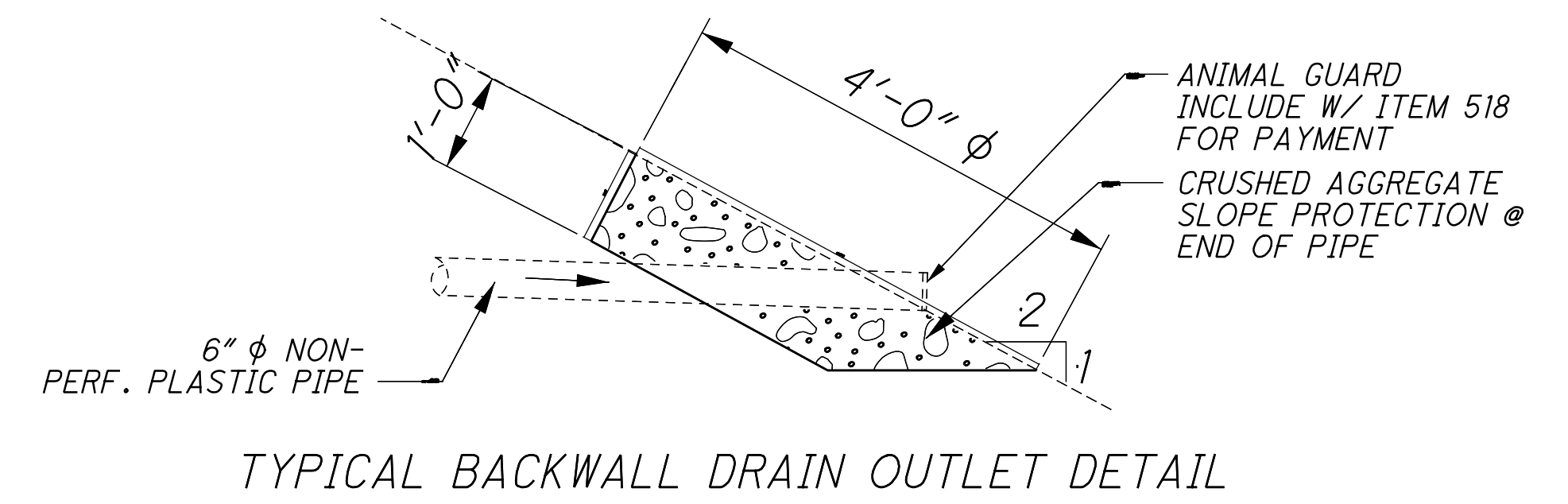
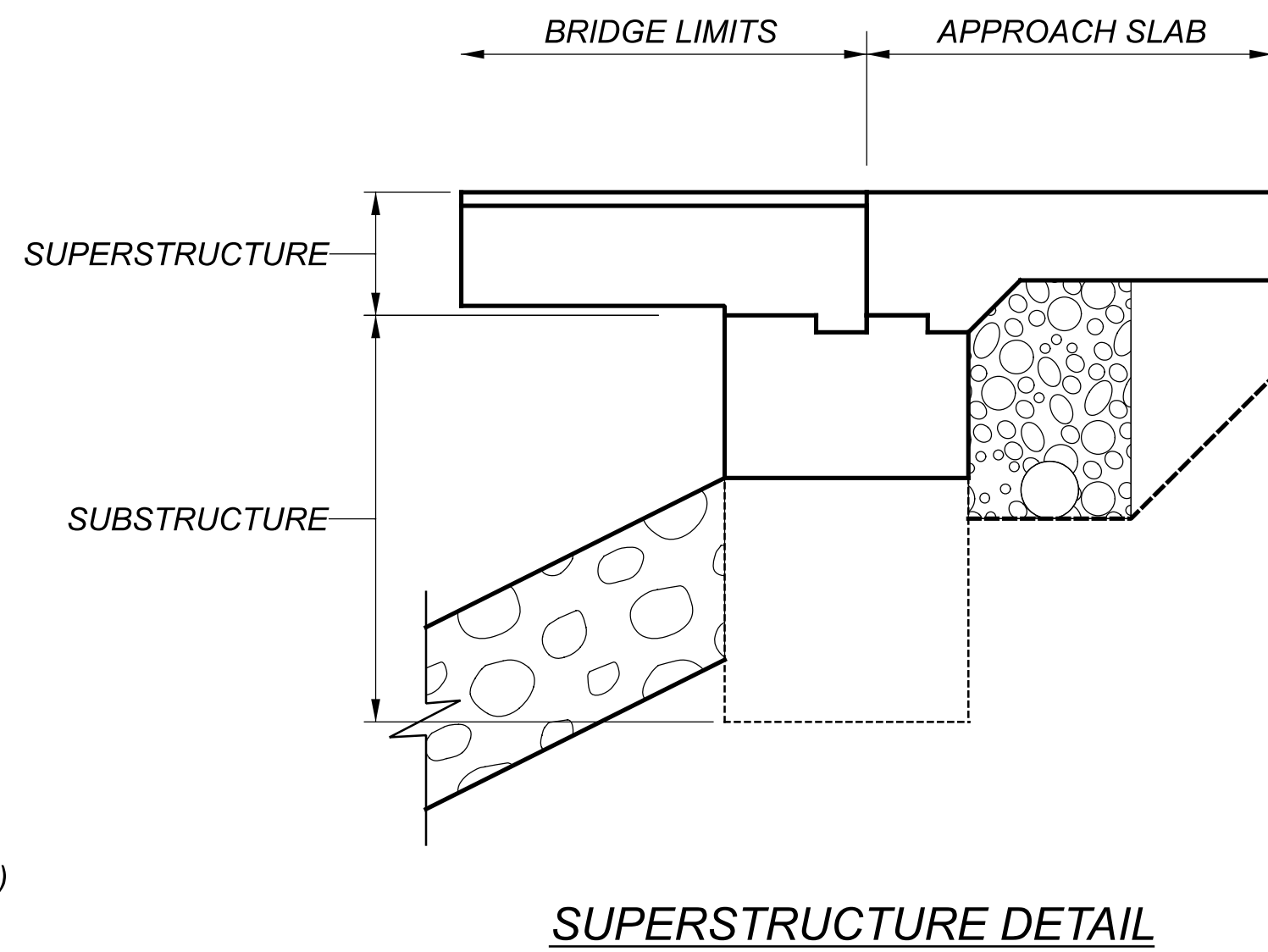
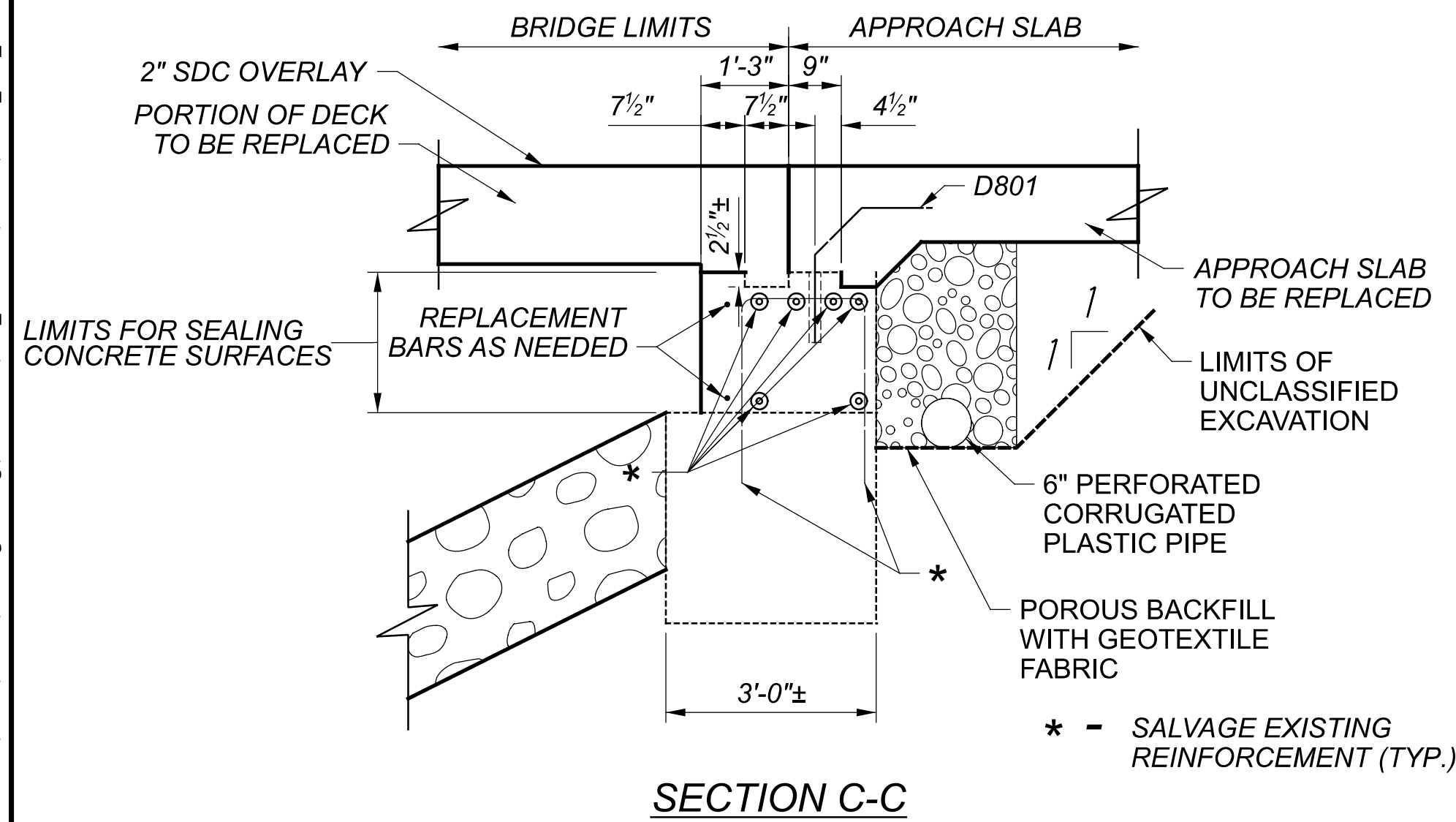
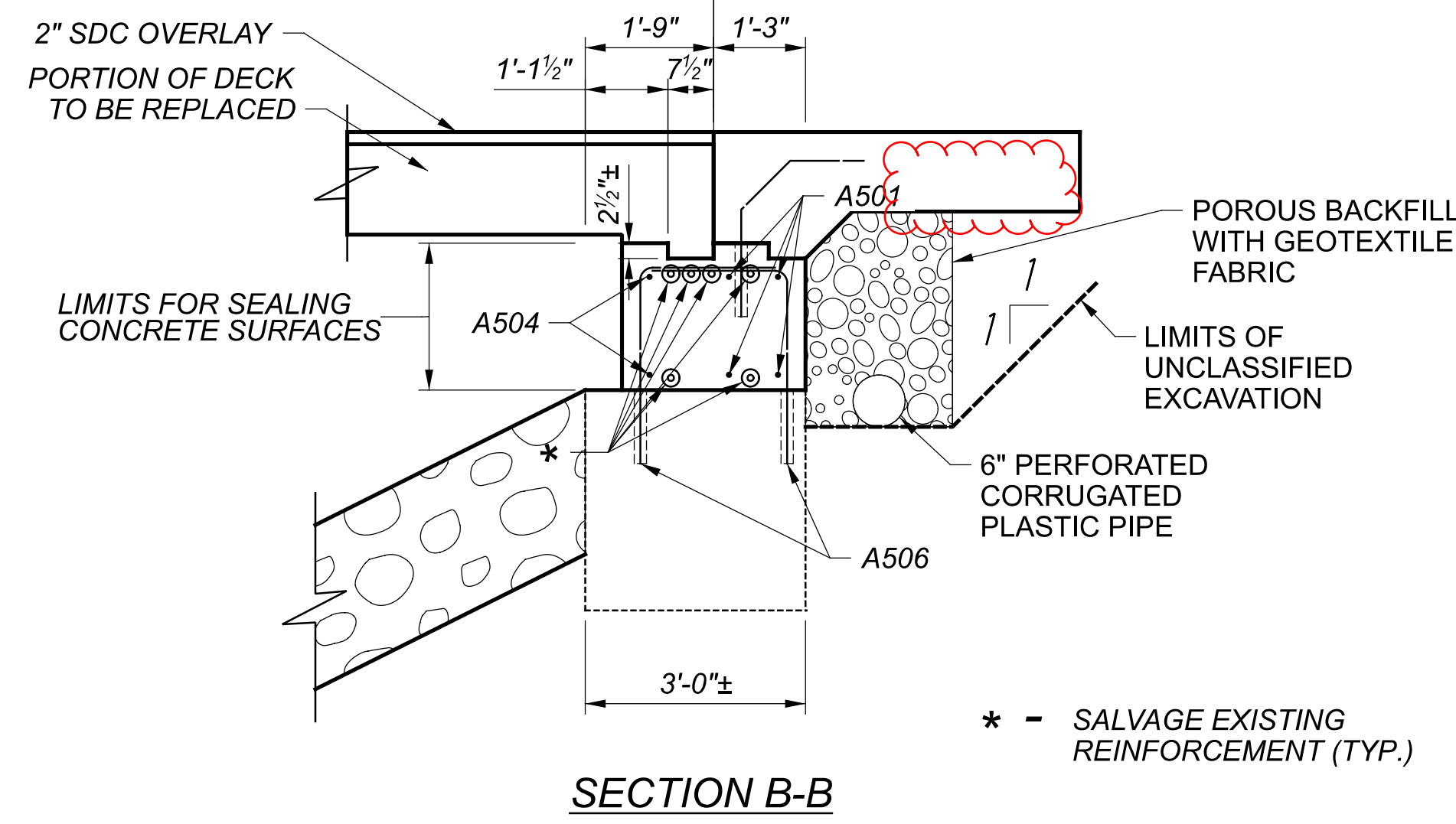
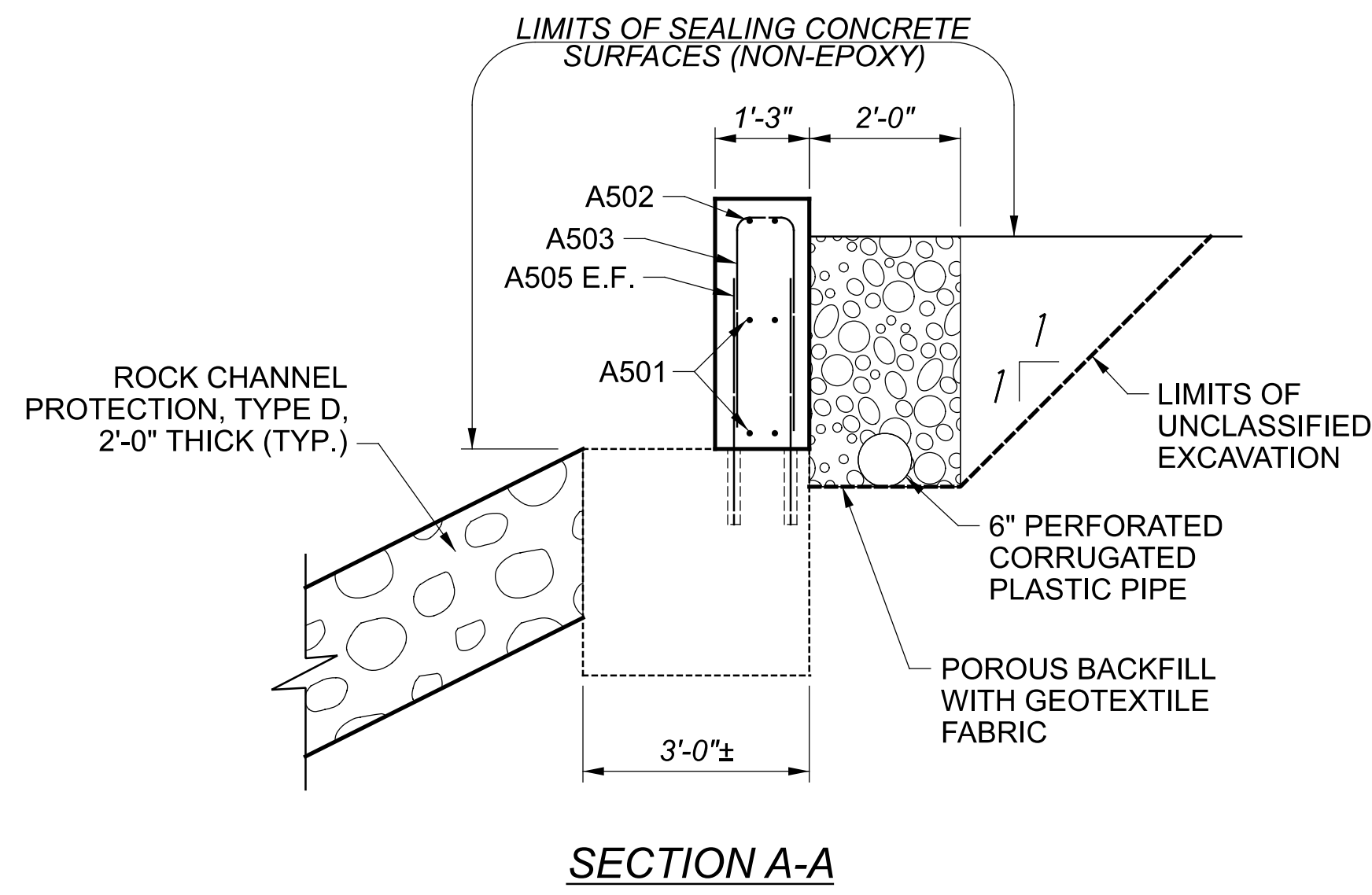
POROUS BACKFILL WITH FILTER FABRIC, 2 FT. THICK, SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO 1 FT. BELOW THE EMBANKMENT SURFACE, AND Laterally ALONG THE LIMITS OF THE NEW CONSTRUCTION TO THE ENDS OF THE WINGWALLS.

(RA) DENOTES REAR ABUTMENT
 (FA) DENOTES FORWARD ABUTMENT
 (EF) DENOTES EACH FACE

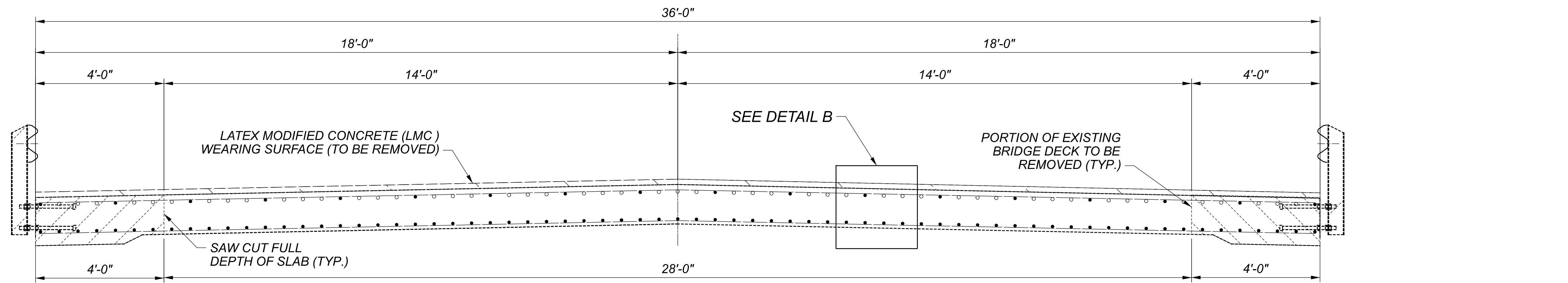
TYP. LAP LENGTH #5 BAR = 2'-0"

FOR SECTIONS A-A, B-B, & C-C
 SEE SHEET 6 OF 12.

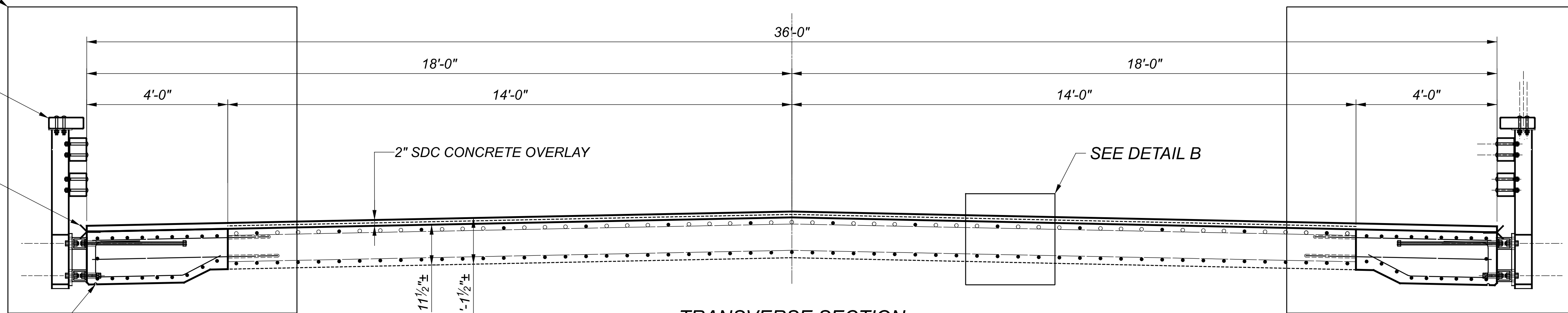




SFN	
4802551	
DESIGN AGENCY	
DESIGNER	CHECKER
NMS	DJG
REVIEWER	
NMS 08/12/24	
PROJECT ID	
96000	
SUBSET	TOTAL
6	10
SHEET	TOTAL
50	60



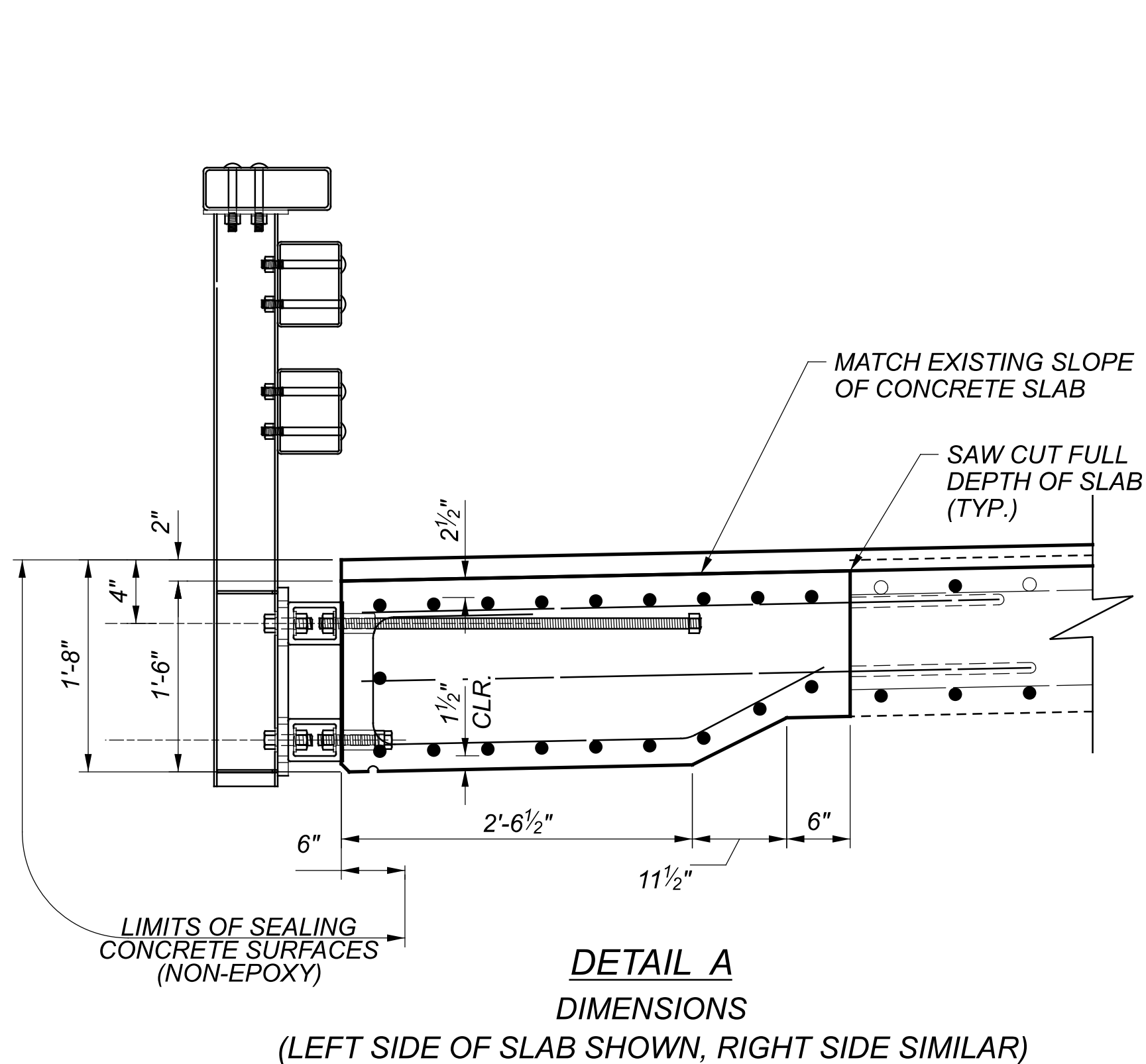
**TRANSVERSE SECTION
EXISTING**



**TRANSVERSE SECTION
PROPOSED**

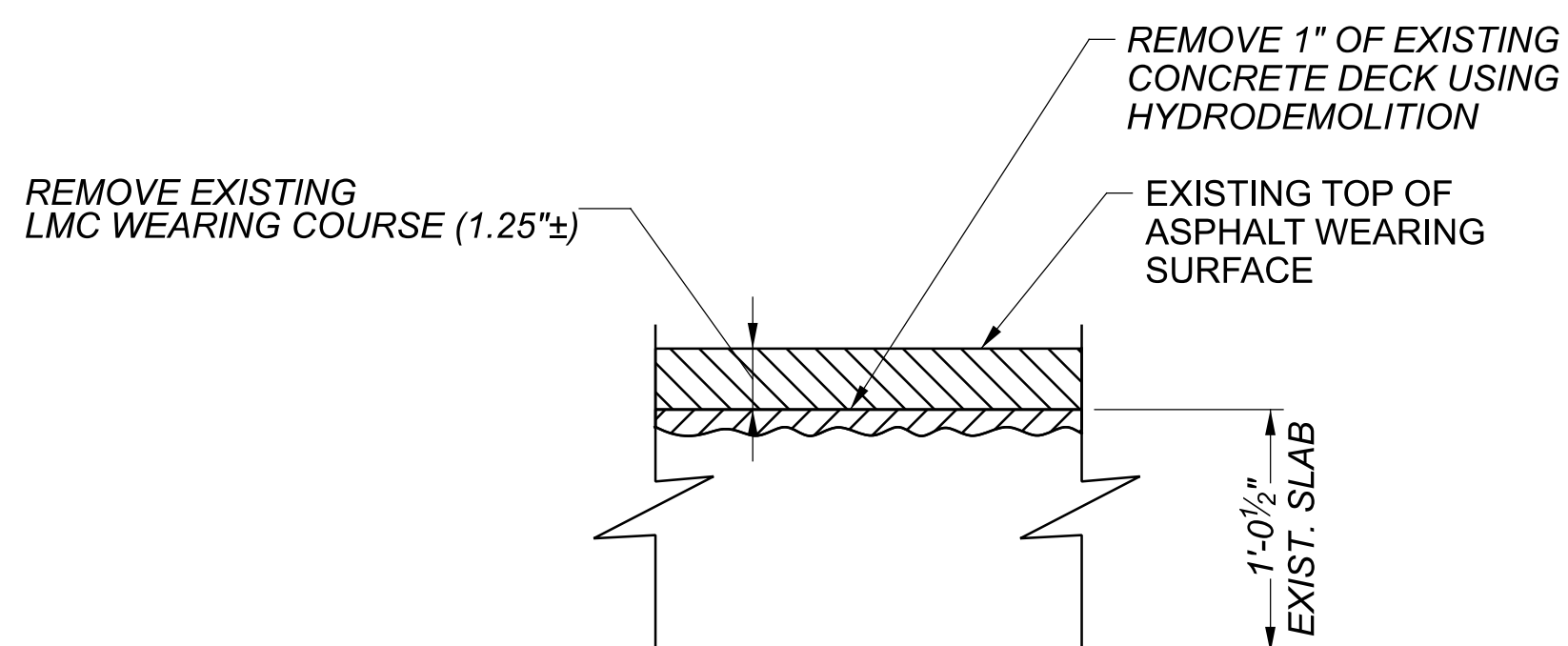
SEE DETAIL A
 THREE STEEL TUBE RAILING AS PER STD. DWG. TST-2-21 (TYP.)
 DRIP STRIP AS PER STD. DWG. DS-1-92 (TYP.)
 1" HALF ROUND DRIP GROOVE (TYP.)

SEE DETAIL C

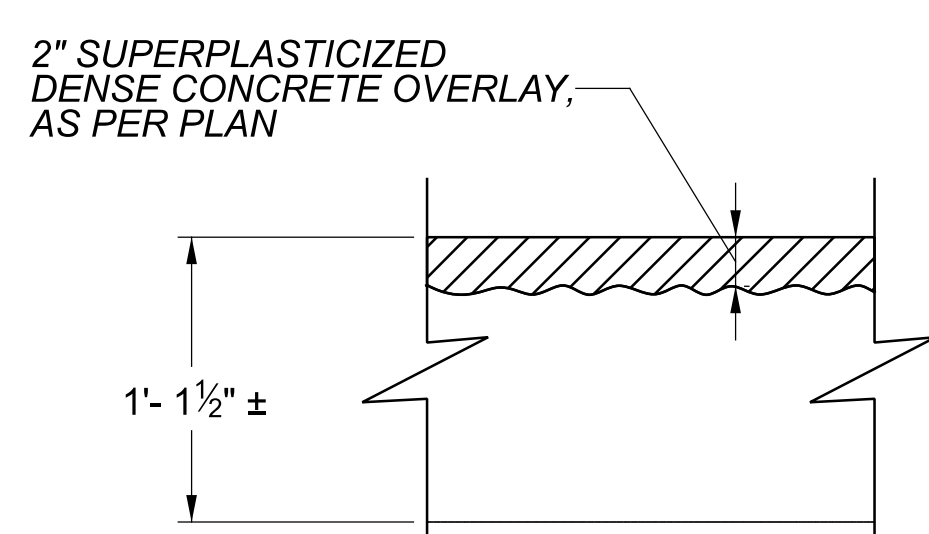


**DETAIL A
DIMENSIONS**

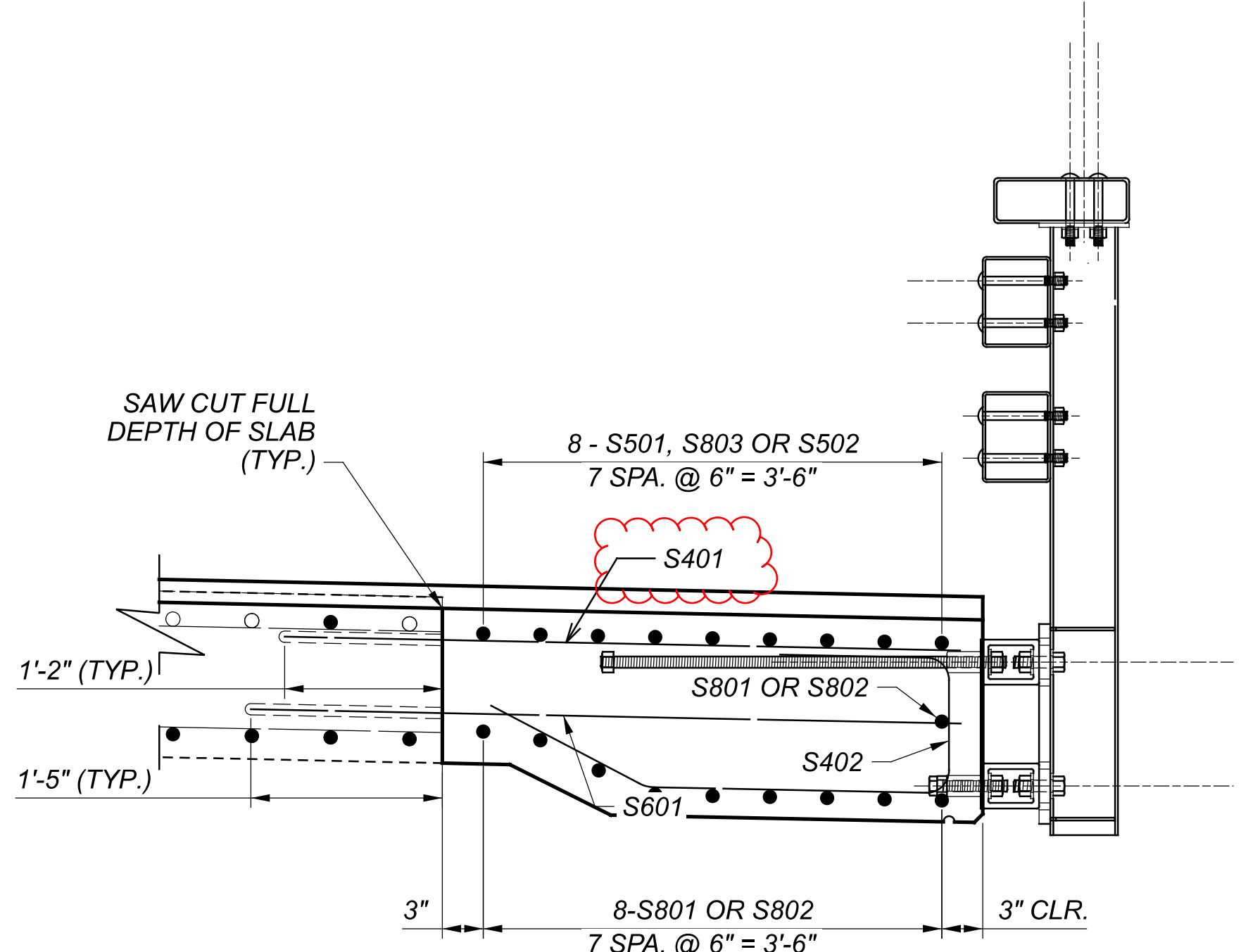
(LEFT SIDE OF SLAB SHOWN, RIGHT SIDE SIMILAR)



**DETAIL B
EXISTING**



**DETAIL B
PROPOSED**

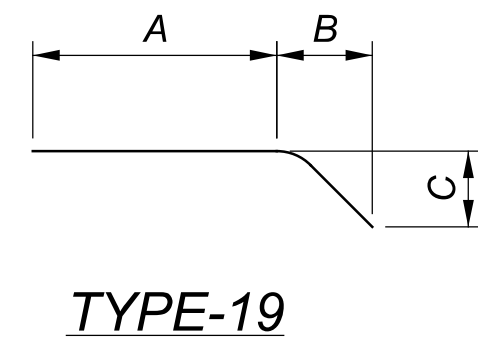
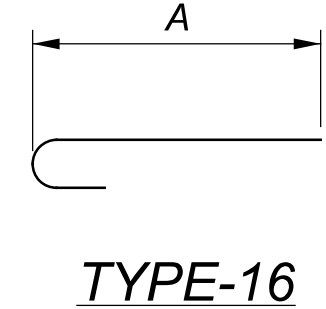
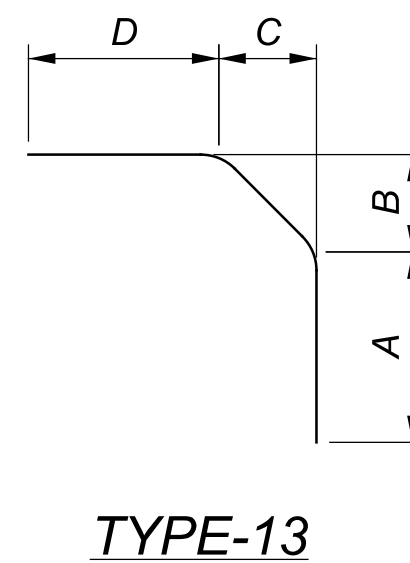
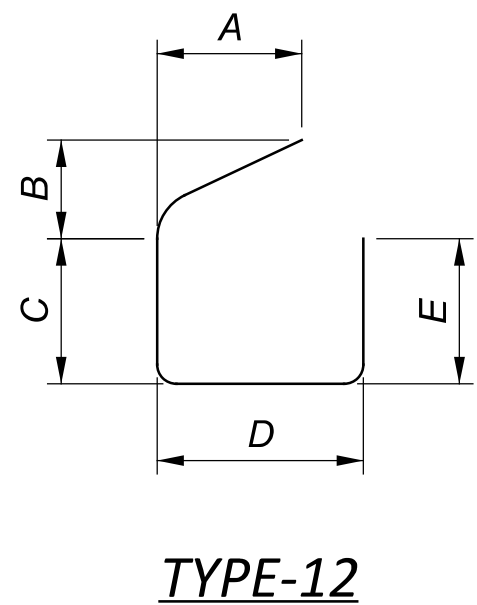
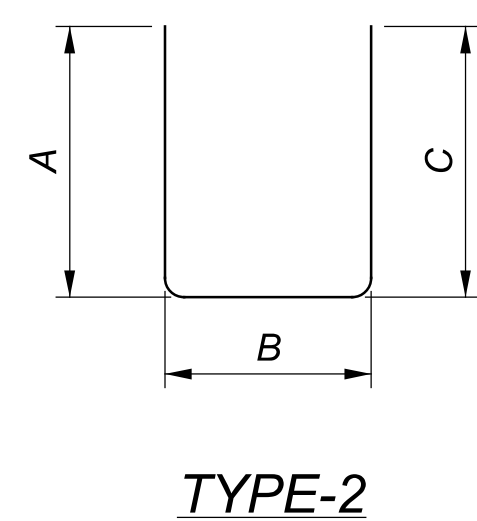
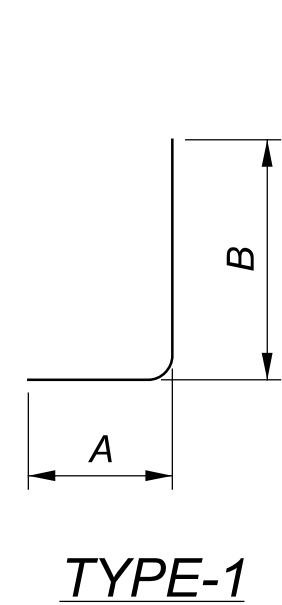


**DETAIL C
REINFORCING**

(RIGHT SIDE OF SLAB SHOWN, LEFT SIDE SIMILAR)

SFN 4802551	
DESIGN AGENCY	
DESIGNER	CHECKER
NMS	DJG
REVIEWER	
NMS 08/12/24	
PROJECT ID	
96000	
SUBSET	TOTAL
8	10
SHEET	TOTAL
52	60

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS							
		TOTAL				A	B	C	D	E	R	INC	
A501		4	24'-9"	103	2	11'-9"	0'-11"	11'-9"					
A502		4	7'-3"	30	2	3'-0"	0'-11"	3'-7"					
A503		14	5'-6"	80	2	2'-5"	0'-11"	2'-5"					
A504		8	6'-4"	53	1	3'-10"	2'-8"						
A505		28	3'-10"	113	STR								
A506		36	4'-6"	170	1	2'-0"	2'-8"						
A507		4	14'-11"	62	2	6'-10"	0'-11"	7'-5"					
A508		4	6'-3"	26	2	2'-6"	0'-11"	3'-1"					
D801		54	3'-1"	445	13	1'-3"	0'-8"	0'-8"	1'-0"				
SUB-TOTAL				1,082									
S401		146	5'-3"	512	STR								
S402		126	6'-5"	540	12	0'-10 3/4"	1'-9 1/2"	2'-2 1/2"	1'-2"	1'-3"			
S501		32	13'-8"	456	STR								
S502		16	9'-11"	165	STR								
S601		134	5'-6"	1107	STR								
S801		32	26'-4"	2250	16	25'-6"							
S802		16	31'-6"	1346	STR								
S803		32	24'-10"	2122	STR								
SUB-TOTAL				8,498									



NOTES

ALL REINFORCING STEEL SHALL BE EPOXY COATED.

THE BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT INDICATES THE BAR SIZE. FOR EXAMPLE, AN A501 IS A #5 BAR. DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. "R" INDICATES THE INSIDE RADIUS.

REINFORCING STEEL MAY REQUIRE FIELD CUTTING OR BENDING TO BE PROPERLY FITTED. PAYMENT SHALL BE INCLUDED WITH THE ASSOCIATED CONCRETE ITEM.

REINFORCING STEEL LIST
 BRIDGE NO. LUC-64-1174
 SR 64 OVER NEISS DITCH

SFN	4802551
DESIGN AGENCY	
DESIGNER	CHECKER
NMS	DJG
REVIEWER	
NMS	08/12/24
PROJECT ID	96000
SUBSET	TOTAL
10	10
SHEET	TOTAL
54	60