

STATE OF OHIO DEPARTMENT OF TRANSPORTATION CUY-6A-00.42

DETROIT-ROCKY RIVER BRIDGE OVER THE ROCKY RIVER CITY OF ROCKY RIVER CITY OF LAKEWOOD CUYAHOGA COUNTY

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES WEARING SURFACE REPLACEMENT, EXPANSION JOINT REPLACEMENT, MISCELLANEOUS PAINTING OF STRUCTURAL STEEL MEMBERS AND SEALING OF EXPOSED CONCRETE SURFACES WITH EPOXY-URETHANE SEALER.

1997 SPECIFICATIONS

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

APPROVED: David Coyle D.P.
DATE: 2-15-00 DISTRICT DEPUTY DIRECTOR

APPROVED: London Porter J.P.
DATE: 3-3-00 DIRECTOR, DEPARTMENT OF TRANSPORTATION

APPROVED: Robert Klaber Jr. P.E.P.S.
DATE: 4/12/00 COUNTY ENGINEER

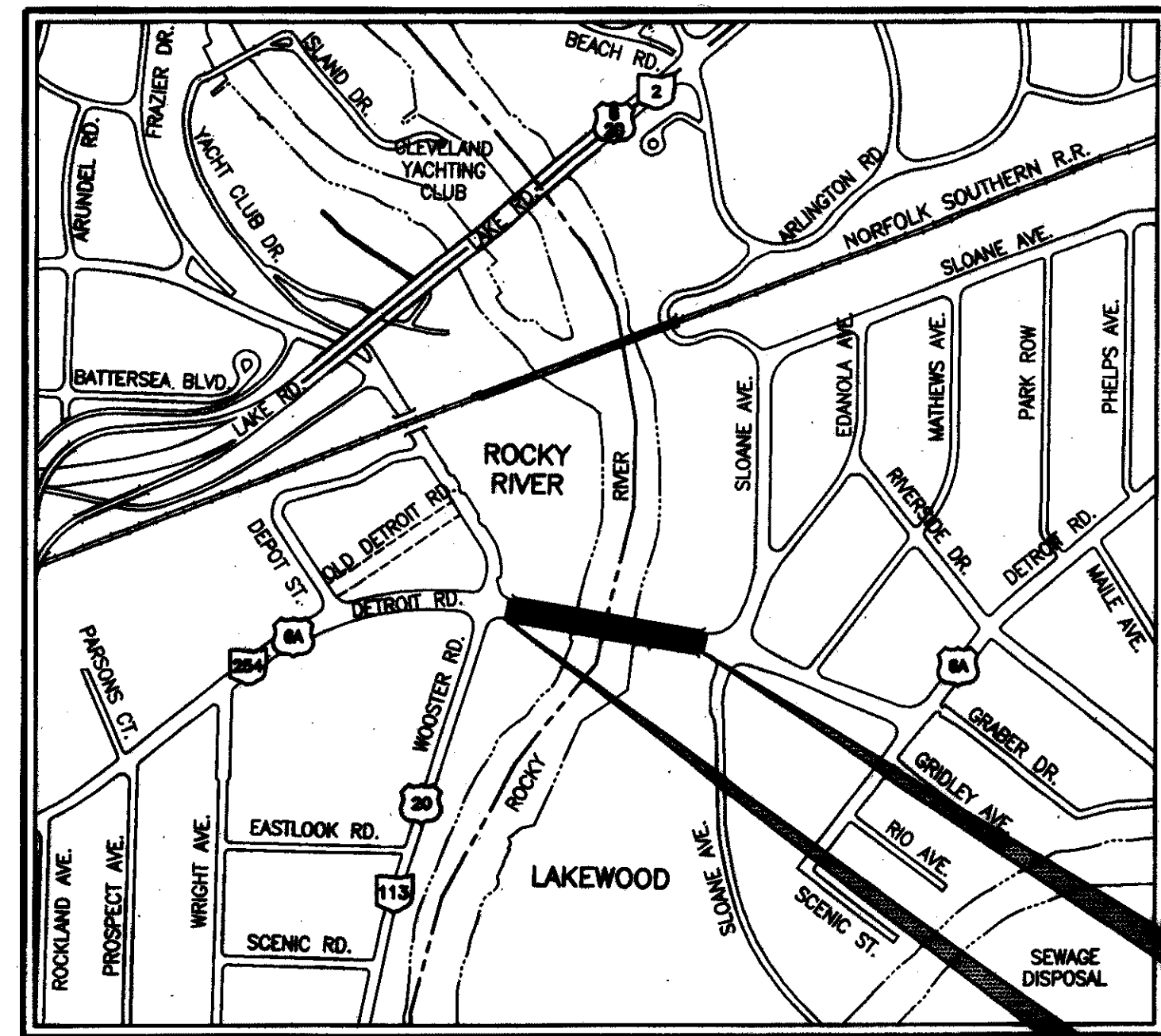
INDEX OF SHEETS

TITLE SHEET	1
SITE PLAN	2
GENERAL PLAN AND ELEVATION	3
GENERAL NOTES	4-5
GENERAL NOTES & ESTIMATED QUANTITIES	6
MAINTENANCE OF TRAFFIC	7
EXPANSION JOINT DETAILS	8,9
SUPERSTRUCTURE PLAN & TRANSVERSE SECTION	10
MISCELLANEOUS DETAILS	11

APPROVED IN THE CITY OF ROCKY RIVER
ORDINANCE OF CONSENT No. 34-95
PASSED MARCH 27, 1995

APPROVED IN THE CITY OF LAKEWOOD
ORDINANCE OF CONSENT No. 6-96
PASSED MAY 6, 1996

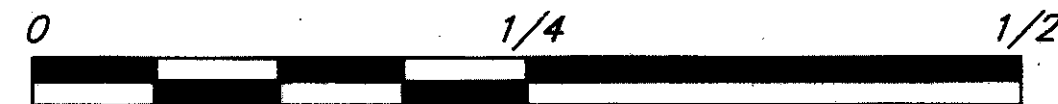
O.D.O.T. STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
EXJ-4-87	2-14-97	MT-95.31M	4-25-94	TC-41.10M	3-31-94	828	7-28-98
		MT-95.32M	4-25-94	TC-41.20M	7-1-94	842	1-6-99
MT-35.10M	1-30-95			TC-52.10M	7-29-94	845	9-9-97
MT-35.11M	1-30-95	MT-97.10M	4-25-94	TC-52.20M	7-29-94	847	6-30-98
						863	10-12-99
		MT-105.10M	4-25-94			885	8-10-99
		MT-105.11M	4-25-94			899	10-21-98
						910	7-28-98
						954	9-9-97



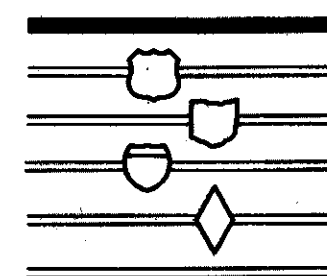
LATITUDE = N 41° 28' 45" LONGITUDE = W 81° 50' 00"

LOCATION MAP

SCALE IN MILES



PORTION TO BE IMPROVED
U.S. HIGHWAYS
STATE HIGHWAYS
INTERSTATE HIGHWAYS
COUNTY HIGHWAYS
OTHER STREETS



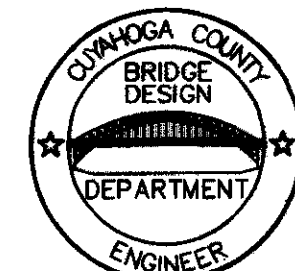
DESIGN DESIGNATION

CURRENT ADT (1999)	13010
DESIGN YEAR ADT (2019)	16640
DESIGN HOURLY VOLUME (2019)	1331
DIRECTIONAL DISTRIBUTION	60%
TRUCKS	3%
DESIGN SPEED	40 M.P.H.
LEGAL SPEED	25 M.P.H.
DESIGN FUNCTIONAL CLASSIFICATION	URBAN ARTERIAL

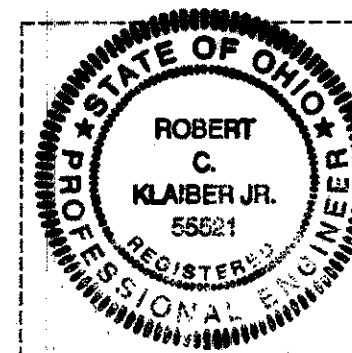
DESIGN EXCEPTIONS

NONE REQUIRED

THESE PLANS PREPARED BY:



1370 ONTARIO
CLEVELAND, OHIO 44113
(216) 348-3800



STAMP

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OHIO UTILITIES
PROTECTION SERVICE
NON - MEMBERS
MUST BE CALLED DIRECTLY

CUY - 6A-00.4
000306
DIST 12

PID# 19494
06-07-00

Plotting Scale: 1/64

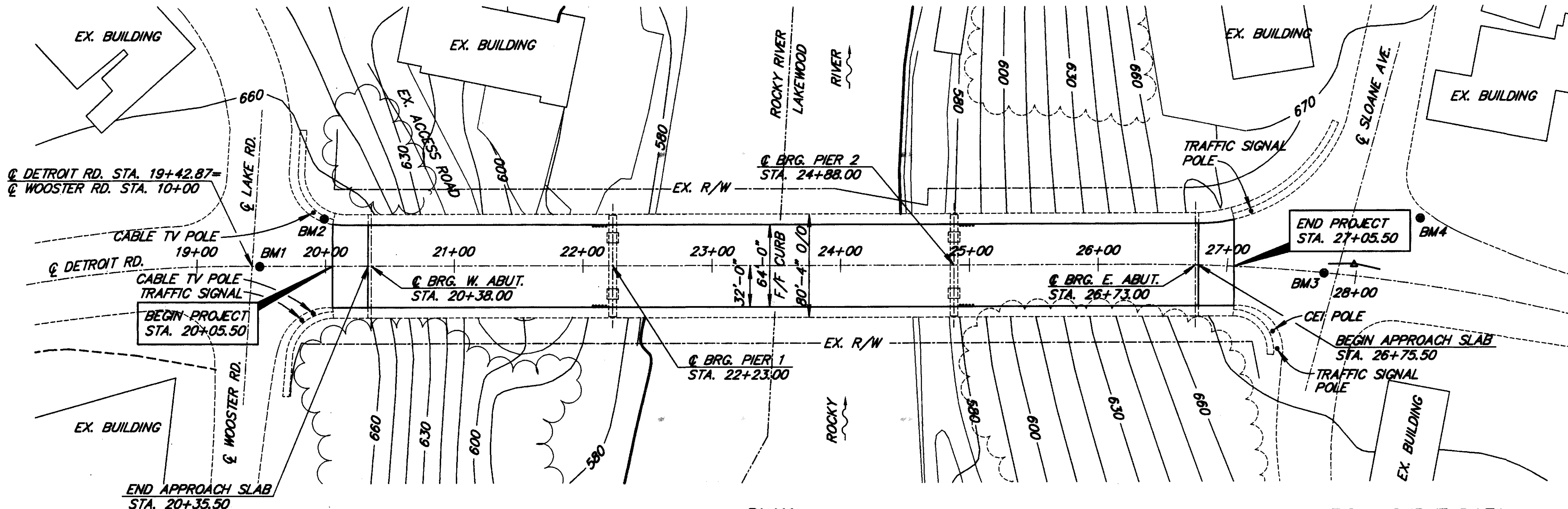
FEDERAL PROJECT NO.
TE21-G000(303)

PID NO.
19494

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NONE

CUY-6A-00.42
B-No. 84 Report No. 7248 Structural File No. 1801074



EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL GIRDER WITH FLOOR SYSTEM, REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 185'-0", 265'-0", 185'-0" C/C BEARINGS

ROADWAY: 64'-0" F/F CURBS WITH TWO (2) 7'-0" SIDEWALKS (STRUCTURE WIDTH 80'-4" OUT/OUT)

LOADING: HS20-44, CASE II, AND ALTERNATE MILITARY LOADING

SKEW: 0° 00' 00"

SURFACE COURSE: 2 3/4" ASPHALT CONCRETE

ALIGNMENT: TANGENT

SUPERELEVATION: NONE (NORMAL CROWN)

APPROACH SLABS: AS-1-72 (30'-0" LONG) MODIFIED

PROPOSED STRUCTURE

SAME AS EXISTING EXCEPT:

WEARING SURFACE: 3" MICRO-SILICA CONCRETE ON THE BRIDGE DECK

1 1/2" ASPHALT CONCRETE ON BOTH APPROACH SLABS

NOTE:

UTILITIES ON THE BRIDGE STRUCTURE:

- 8" DIA. GAS MAIN
- 4-5" I.D. C.E.I. ELECTRICAL DUCTS
- 16-4" DIA. AMERITECH TELEPHONE DUCTS
- 2-2" LIGHTING CONDUITS
- 4" DIA. TRAFFIC SIGNAL INTER-CONNECTION DUCT
- 30" DIA. WATER MAIN

SEE SHEET 10/11 FOR LOCATION AND DETAILS.

BENCHMARKS:

BM1 - IRON PIN MONUMENT, STA. 19+43.36, ELEV. 666.50

BM2 - PK NAIL, STA. 20+30.80, 37' LEFT, ELEV. 668.26

BM3 - IRON PIN MONUMENT, STA. 27+38.40, ELEV. 672.80

BM4 - PK NAIL, STA. 28+54.20, 56' LEFT, ELEV. 672.81

HORIZONTAL CURVE DATA

P.I. STA. 27+99.78

P.C. STA. 26+34.44

$\Delta = 13^\circ 10' 07.5"$

$D_c = 4^\circ 00' 00"$

$L = 329.22'$

$C = 328.49'$

$T = 165.34'$

VERTICAL CURVE DATA

P.V.I. STA. 28+50.00

P.V.I. ELEV. = 673.48

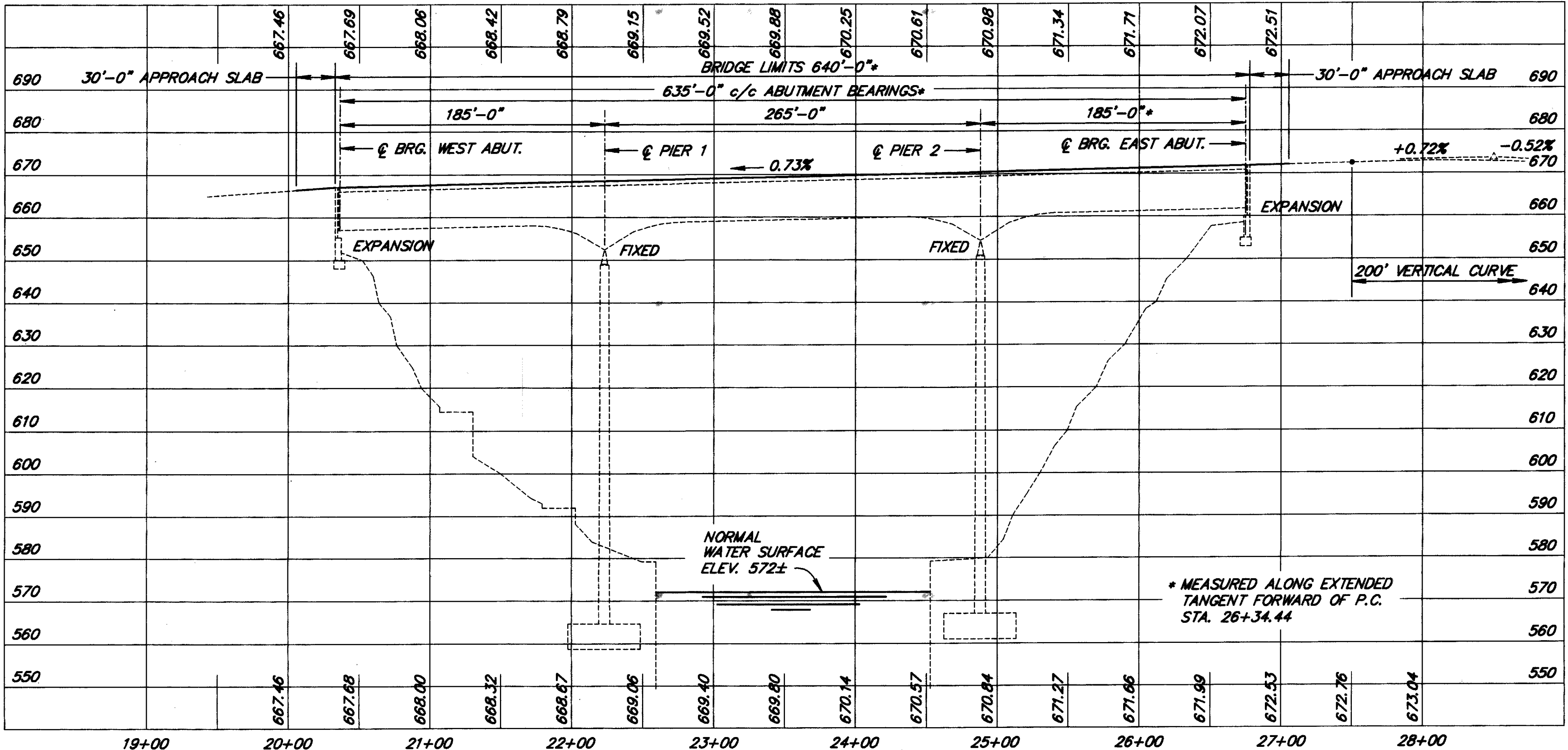
CORR. = -0.31

P/G = 673.17

V.C. = 200'

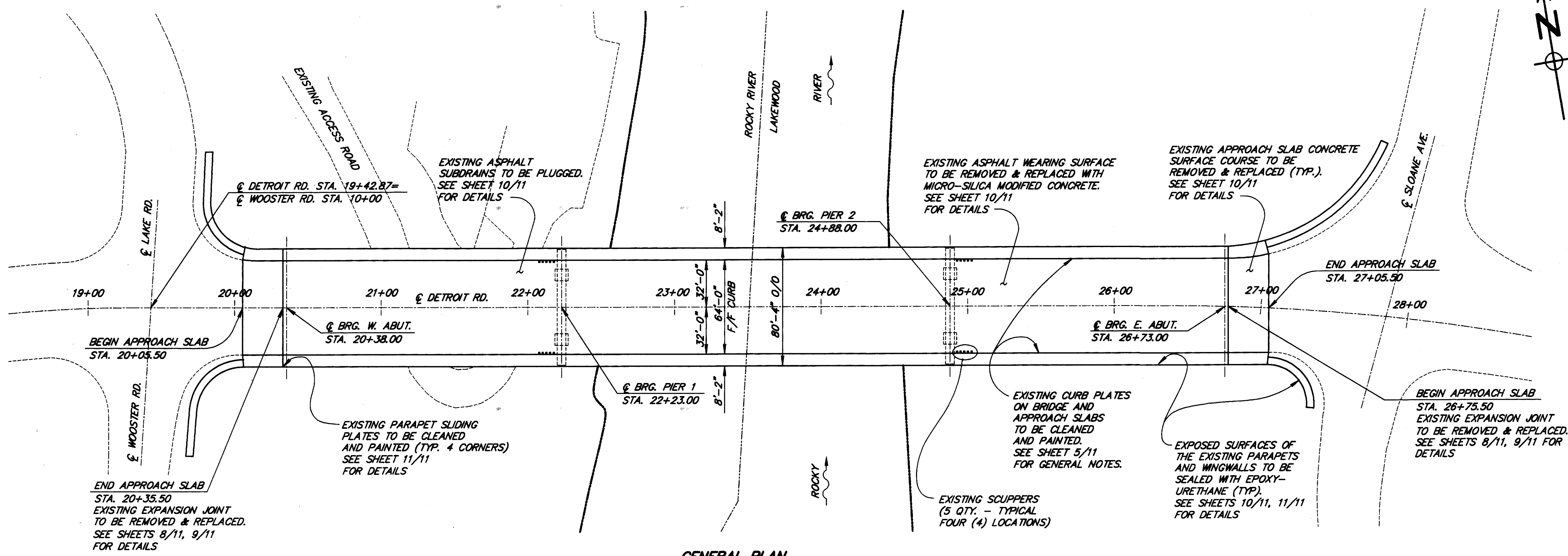
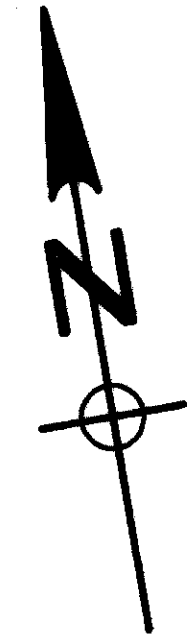
G1 = +0.72%

G2 = -0.52%

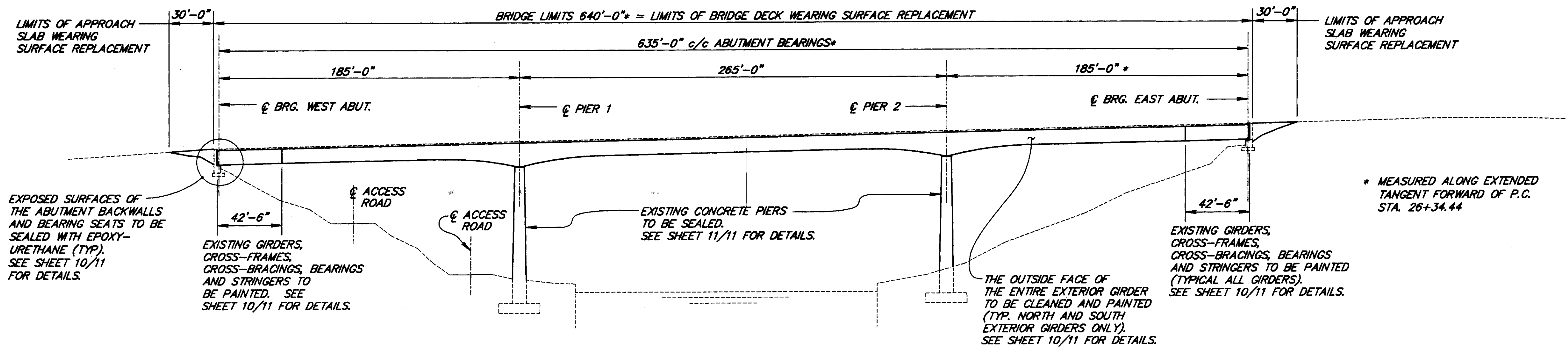


- PROPOSED WORK (NOT IN SEQUENTIAL ORDER)**
1. REMOVE THE EXISTING WEARING SURFACES FROM THE BRIDGE DECK AND BOTH APPROACH SLABS USING SCARIFICATION PROCEDURES.
 2. PLUG ALL ASPHALT SUBDRAINS IN THE EXISTING DECK BEFORE THE NEW WEARING SURFACE IS PLACED.
 3. REMOVE THE EXISTING MODULAR EXPANSION JOINTS AT EACH ABUTMENT.
 4. PLACE NEW STRIP SEAL EXPANSION JOINTS AT EACH ABUTMENT.
 5. PLACE NEW ASPHALT CONCRETE WEARING SURFACES ON BOTH APPROACH SLABS.
 6. PLACE NEW MICRO-SILICA CONCRETE WEARING SURFACE ON THE EXISTING BRIDGE DECK.
 7. CLEAN AND PAINT ALL EXISTING GIRDERS, BEARINGS, CROSS BRACING, CROSSFRAMES AND STRINGERS NEAR EACH ABUTMENT.
 8. CLEAN AND PAINT THE OUTSIDE FACES OF THE EXISTING EXTERIOR GIRDERS (NORTH AND SOUTH EXTERIOR GIRDERS ONLY).
 9. CLEAN AND PAINT THE EXISTING CURB PLATES AND PARAPET SLIDING EXPANSION PLATES AT THE EXPANSION JOINT LOCATIONS.
 10. CLEAN THE ABUTMENT BEARING SEATS AND BACKWALLS AND SEAL THE EXPOSED SURFACES WITH EPOXY-URETHANE SEALER.
 11. REMOVE THE DELAMINATIONS FROM THE UNDERSIDE OF THE DECK AND SEAL THE AREAS WITH EPOXY SEALER.
 12. SEAL THE EXPOSED SURFACES OF THE WINGWALLS, PIERS, PARAPETS, FASCIA AND UNDERSIDE OF THE DECK TO THE EXTERIOR GIRDER WITH EPOXY-URETHANE SEALER.

Plotting Scale: 1/64



GENERAL PLAN



GENERAL ELEVATION

Plotting Scale: 1/8"

GENERAL NOTES

REFERENCE SHALL BE MADE TO ODOT STANDARD DRAWINGS:

EXJ-4-87 DATED 2-14-97

AND TO ODOT SUPPLEMENTAL SPECIFICATIONS:

828 DATED 7-28-98	863 DATED 10-12-99
842 DATED 1-6-99	885 DATED 8-10-99
846 DATED 9-9-97	899 DATED 10-21-98
847 DATED 6-30-98	910 DATED 7-28-98
	954 DATED 9-9-97

AND TO ODOT PROPOSAL NOTES:

516 DATED 4-14-93

DESIGN SPECIFICATIONS

REPAIRS TO THIS STRUCTURE CONFORM TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1996, 16th EDITION, INCLUDING INTERIM SPECIFICATIONS, AND THE OHIO DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL.

DESIGN DATA

DESIGN LOADING - HS20-44 AND ALTERNATE MILITARY LOADING
 CONCRETE CLASS C - $f_c = 4,000$ PSI (BACKWALLS)
 CONCRETE CLASS S - $f_c = 4,500$ PSI (SUPERSTRUCTURE)
 REINFORCING STEEL - ASTM A615, A616 OR A617 - GRADE 60 (EPOXY COATED) - UNIT STRESS 24,000 PSI
 STRUCTURAL STEEL - A36 (EXPANSION JOINTS, CURB PLATES)
 DECK PROTECTION METHOD - 3" MICRO-SILICA MODIFIED CONCRETE OVERLAY
 APPROACH SLAB SURFACE COURSE - 1 3/4" ASPHALT CONCRETE

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/OR FROM FIELD MEASUREMENTS. THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND SS 863.07.

CONTRACT BID PRICES SHALL BE BASED UPON THE RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

PLANS OF EXISTING STRUCTURE ARE ON FILE AT THE CUYAHOGA COUNTY ENGINEERS OFFICE, 1370 ONTARIO STREET, ROOM 1926, CLEVELAND, OHIO 44113, AND ARE AVAILABLE FOR REFERENCE. CONTRACTOR SHALL FAMILIARIZE HIM/HER SELF WITH ALL PERTINENT DRAWINGS.

ELEVATION DATUM

ELEVATIONS SHOWN ARE BASED ON CLEVELAND REGIONAL GEODETIC SURVEY (C.R.G.S.) DATA. MONUMENTS ARE DESCRIBED ON THE SITE PLAN, SHEET 2/11.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION (INCLUDING ERECTION, MAINTENANCE AND REMOVAL) OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS, EXCEPT WHERE OTHERWISE NOTED, SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616	WATER	10 MGAL
ITEM 616	CALCIUM CHLORIDE	1 TON

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. NO ADJUSTED UNIT PRICES WILL BE MADE FOR ANY DECREASE OR ELIMINATION OF CONTINGENCY QUANTITIES/ITEMS AND ANY SUCH PROVISIONS SO SPECIFIED IN 104.02 SHALL NOT APPLY.

UTILITIES

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

CITY OF CLEVELAND
 DIVISION OF WATER
 1201 LAKESIDE AVENUE, 6th FLOOR
 CLEVELAND, OHIO 44114
 ATTN: RANDY KRELL
 PHONE: (216) 664-2444 EXT. 4555
 FAX: (216) 664-2838

AMERITECH
 13630 LORAIN AVENUE - 4th FLOOR
 CLEVELAND, OHIO 44111
 ATTN: DICK LICHT
 PHONE: (216) 476-6142
 FAX: (216) 476-6013

THE ILLUMINATING COMPANY
 NORTHERN REGION
 6896 MILLER ROAD
 BRECKSVILLE, OHIO 44141
 ATTN: FRANK DIBBS
 PHONE: (440) 546-8748
 FAX: (440) 546-8775

EAST OHIO GAS COMPANY
 1201 EAST 55th STREET
 CLEVELAND, OHIO 44103-1028
 ATTN: SAM MERCURIO
 PHONE: (216) 736-6675
 FAX: (216) 736-6780

COX CABLE
 1221 PLAZA DRIVE
 PARMA, OHIO 44130
 ATTN: TIM YANDA
 PHONE: (216) 676-8300

MCI-WORLDCOM
 NATIONAL SUPPORT / INVESTIGATIONS
 DEPT. 2855 LOC. 642
 2250 LAKESIDE BOULEVARD
 RICHARDSON, TEXAS 75082
 ATTN: ROSALYN W. VAN WINKLE
 PHONE: (972) 656-6016

CITY OF LAKEWOOD - SERVICE DEPT.
 12650 DETROIT AVENUE
 LAKEWOOD, OHIO 44107
 ATTN: DAVID MCGUIRK
 PHONE: (216) 529-6805

THE LOCATION OF THE UTILITIES SHOWN ON THESE PLANS ARE AS OBTAINED FROM THE EXISTING DRAWINGS AND/OR FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

ALL EXPENSE INVOLVED IN REPAIRING AND/OR RELOCATING ANY AFFECTED UTILITY LINES PRIOR TO THE CONTRACTOR'S WORK SHALL BE BORNE BY THE UTILITY(IES). THE CONTRACTOR AND UTILITY(IES) ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

THE CONTRACTOR SHALL USE CAUTION AND/OR PROVIDE PROTECTION FOR OVERHEAD UTILITIES, EMBEDDED UTILITIES IN THE BRIDGE SUPERSTRUCTURE AND UTILITIES SUSPENDED UNDERNEATH THE BRIDGE DECK. ANY DAMAGE TO THESE UTILITIES THAT THE ENGINEER DETERMINES TO BE THE RESULT OF THE CONTRACTOR'S WORK SHALL BE REPAIRED TO THE COMPLETE SATISFACTION OF THE ENGINEER AND THE AFFECTED UTILITY(IES) AT THE EXPENSE OF THE CONTRACTOR.

CONVERSION OF METRIC STANDARD DRAWINGS

THE METRIC STANDARD DRAWINGS REFERENCED IN THESE PLANS SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.011 OF THE 1997 CONSTRUCTION AND MATERIALS SPECIFICATIONS. THE APPENDIX OF ASTM E380 SHALL BE UTILIZED FOR ANY ADDITIONAL CONVERSION FACTORS REQUIRED. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE. THE CONTRACTOR AND THE ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE CONVERSIONS.

CONCRETE COVER FOR REINFORCING STEEL

MINIMUM CONCRETE COVER FOR ALL REINFORCING BARS SHALL BE TWO INCHES (2") UNLESS SHOWN OTHERWISE.

PAVEMENT ELEVATIONS

THE NEW MICRO-SILICA MODIFIED CONCRETE (M.S.M.C.) WEARING SURFACE ON THE BRIDGE DECK AND NEW ASPHALT CONCRETE WEARING SURFACE ON BOTH APPROACH SLABS SHALL BE PLACED AT APPROXIMATELY THE SAME PROFILE GRADE ELEVATIONS AS THE EXISTING WEARING SURFACES (SEE SHEET 10/11). THE EXISTING GRADES AND ELEVATIONS SHALL BE VERIFIED AND DOCUMENTED IN THE FIELD PRIOR TO THE REMOVAL OF THE EXISTING WEARING SURFACES. ANY WORK ASSOCIATED WITH OBTAINING THESE ELEVATIONS SHALL BE CONSIDERED INCIDENTAL TO ITEMS 254 AND/OR 847. THE EXISTING APPROACH SLABS SHALL BE SCARIFIED AND RESURFACED SO AS TO PROVIDE A SMOOTH TRANSITION ONTO AND OFF OF THE BRIDGE.

WORK INVOLVEMENT NEAR (OR OVER) THE CLEVELAND METROPARKS SYSTEM, CLEVELAND YACHTING CLUB AND PRIVATELY OWNED PROPERTY

THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING SPECIFIC REQUIREMENTS:

- CONSTRUCTION WORK SHALL BE LIMITED TO THE CONFINES OF THE EXISTING RIGHT-OF-WAY (AND DESIGNATED WORK AREAS) FOR THE PROJECT.
- NO DEBRIS OR CONSTRUCTION MATERIALS SHALL BE STORED ON CLEVELAND METROPARKS SYSTEM, CLEVELAND YACHTING CLUB AND/OR PRIVATE PROPERTY BEFORE, DURING OR AFTER ANY CONSTRUCTION WORK ON OR UNDER THE BRIDGE. DEBRIS OR RUBBLE SHALL BE CONTROLLED SO THAT IT IS NOT WASHED OR OTHERWISE CARRIED DOWNSTREAM ONTO CLEVELAND METROPARKS SYSTEM, CLEVELAND YACHTING CLUB AND/OR PRIVATE PROPERTY.
- THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS ACROSS THE PROJECT RIGHT-OF-WAY DURING DEMOLITION AND CONSTRUCTION, SO AS TO PREVENT EROSION AND FLOODING ON ADJACENT CLEVELAND METROPARKS, CLEVELAND YACHTING CLUB AND/OR PRIVATE PROPERTY.
- ACCESS TO THE CLEVELAND METROPARKS SYSTEM, CLEVELAND YACHTING CLUB AND ALL PRIVATE PROPERTY SHALL BE PER PLAN AT ALL TIMES. SEE ROADWAY AND MAINTENANCE OF TRAFFIC PLANS.
- PARK ROADS, RESIDENTIAL STREETS, BUSINESS ACCESS ROADS, OR SIMILAR LOCAL ROUTES SHALL NOT BE DESIGNATED AS HAUL ROADS OR DETOUR ROADS DURING CONSTRUCTION.
- IF IT IS REQUIRED BY THE CONTRACTOR TO USE PARK ROADS OR LOCAL ROUTES AS ACCESS FOR WORK PURPOSES, THEN THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE PARK BOARD OF THE CLEVELAND METROPARKS SYSTEM, BUSINESS, AND/OR LOCAL GOVERNMENT AGENCY. ALL COSTS INVOLVED IN OBTAINING SUCH PERMITS SHALL BE PAID BY THE CONTRACTOR AT HIS/HER OWN EXPENSE. NO USE OF PARK ROADS OR LOCAL ROADS WILL OCCUR UNTIL THE NECESSARY PERMITS HAVE BEEN OBTAINED.
- DAMAGE TO TREES, SHRUBS AND OTHER NATURAL FEATURES AND/OR FACILITIES OUTSIDE OF THE DESIGNATED WORK LIMITS AS A RESULT OF THE CONTRACTOR'S WORK SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE, SUBJECT TO REVIEW AND COORDINATION WITH THE OWNER OF THE AFFECTED PROPERTY.
- ANY AREAS DISTURBED BY THE CONTRACTOR OUTSIDE OF THE DESIGNATED WORK LIMITS SHALL BE RESTORED AT HIS/HER OWN EXPENSE, IN A CONDITION EQUAL TO OR BETTER THAN CONDITIONS WHICH EXISTED PRIOR. CMS SPECIFICATIONS 104.06, 107.12, 108.04 AND 659 SHALL BE FOLLOWED IN THE RESTORATION.

MICRO-SILICA MODIFIED CONCRETE OVERLAY (3" THICK)

THIS WORK SHALL BE DONE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 847. PAYMENT FOR ALL WORK ASSOCIATED WITH THE REMOVAL OF THE EXISTING ASPHALT OVERLAY, PATCHING THE EXISTING CONCRETE BRIDGE DECK AND PLACING THE NEW CONCRETE OVERLAY SHALL BE MADE UNDER THE VARIOUS 847 ITEMS AS STATED IN SUPPLEMENTAL SPECIFICATION 847 AND ON SHEET 6/11.

ITEM 254 - PAVEMENT PLANING, PORTLAND CEMENT CONCRETE

THE TOP 1 3/4" OF THE CONCRETE APPROACH SLAB SHALL BE SCARIFIED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND/OR SUPPLEMENTAL SPECIFICATION 847. IF THE EXISTING REINFORCING STEEL IN THE APPROACH SLABS IS EXPOSED DURING THE SCARIFICATION PROCESS, THE ENGINEER SHALL INSPECT THE STEEL FOR DAMAGE. IF HE DETERMINES THAT DAMAGE EXISTS, THEN THE CONTRACTOR SHALL REPAIR/REPLACE THE STEEL AT HIS OWN EXPENSE.

DESIGN AGENCY
 CUYAHOGA COUNTY ENGINEER
 BRIDGE DESIGN DEPARTMENT

DATE
 2/18/00
 REVIEWED
 WAD
 STRUCTURE FILE NO.
 1801074

DRAWN
 Dm
 CHECKED
 BGF

CUYAHOGA COUNTY
 BRIDGE NO. 66
 B-No. 84
 Report No. 7248

GENERAL NOTES
 DETROIT ROAD BRIDGE
 OVER THE ROCKY RIVER

CUY-6A-00.42

4
 11

GENERAL NOTES

ITEM SPECIAL - STRUCTURE MISC.: SUBSURFACE DRAINAGE TUBE PLUGGED

THIS WORK SHALL INCLUDE ALL MATERIALS AND LABOR APPLICABLE TO THE PREPARATION AND PLUGGING OF EXISTING SUBDRAIN TUBES IN THE BRIDGE DECK (SEE DETAIL ON SHEET 10/11). EXISTING PLUGGED SUBDRAIN TUBES, IF ANY, WHICH BECAME UNPLUGGED OR OTHERWISE DISTURBED DURING THE WEARING COURSE REMOVAL SHALL BE REPLUGGED PER THE SAME DETAIL AT NO ADDITIONAL EXPENSE TO THE STATE.

ITEM SPECIAL - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

A CONCRETE SEALER SHALL BE APPLIED TO THE SURFACES AS SHOWN ON SHEETS 10/11, 11/11 INCLUDING ALL EXPOSED FACES OF THE WINGWALLS, ABUTMENTS, BACKWALLS, BEARING SEATS, PIERS AND PARAPETS. SEE PROPOSAL NOTE 516 FOR SURFACE PREPARATION REQUIREMENTS, APPLICATION RATES, MATERIAL REQUIREMENTS AND APPLICATION PROCEDURES. THE COLOR OF THE FINISHED SEALER SHALL BE GRAY, FEDERAL NO. 37722, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

ITEM SPECIAL - SEALING MISC.: SEALING DELAMINATED CONCRETE AREAS WITH EPOXY SEALER

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY FOR THE REMOVAL OF DELAMINATED CONCRETE ON THE UNDERSIDE OF THE BRIDGE DECK AND THE APPLICATION OF EPOXY SEALER TO THESE AREAS, INCLUDING SOUNDING THE UNDERSIDE OF THE DECK, MARKING THE REMOVAL AREAS, CLEANING ANY EXPOSED DECK REINFORCING STEEL AND COATING THE EXPOSED REBAR WITH EPOXY. DELAMINATED CONCRETE AREAS SHALL NOT BE PATCHED WITH CONCRETE, GROUT OR MORTAR. DELAMINATED CONCRETE AREAS ARE TO BE VERIFIED AND APPROVED IN THE FIELD BY THE ENGINEER PRIOR TO ANY REMOVAL OPERATIONS. EPOXY SEALER SHALL BE AS PER PROPOSAL NOTE 516. THE COLOR OF SEALER SHALL CLOSELY MATCH THE COLOR OF THE EXISTING CONCRETE.

FOR ESTIMATING PURPOSES, A PAY ITEM QUANTITY OF 230 SY HAS BEEN FIGURED. THIS IS BASED ON THE 1997 INSPECTION REPORT WHICH STATES THAT 2% OF THE UNDERSIDE OF THE DECK WAS, AT THAT TIME, SPALLED, DISCOLORED AND/OR UNSOUND. IT HAS BEEN ASSUMED THAT AN ADDITIONAL 3% OF THE UNDERSIDE OF THE DECK HAS DETERIORATED SINCE THEN, FOR A TOTAL OF 5% OR 230 SY.

ITEM 885 - SURFACE PREPARATION OF EXISTING STEEL WITH WARRANTY

THE EXISTING STRUCTURAL STEEL MEMBERS AS SHOWN ON SHEETS 9/11, 10/11, 11/11, INCLUDING ALL EXISTING CURB PLATES ON THE BRIDGE AND BOTH APPROACH SLABS AND SLIDING PLATES ON THE PARAPETS SHALL BE BLAST CLEANED AS PER SUPPLEMENTAL SPECIFICATION 885 PRIOR TO PAINTING WITH SYSTEM OZEU. THE USE OF SILICA SAND SHALL NOT BE PERMITTED.

FIELD PAINTING OF EXISTING STEEL WITH WARRANTY

A 42'-6" LENGTH FROM THE ENDS OF THE GIRDERS ADJACENT TO THE ABUTMENTS AND ALL CROSS FRAMES AND OTHER A588 STEEL WITHIN THESE LIMITS SHALL BE PAINTED WITH SYSTEM OZEU. ALSO, THE OUTSIDE FACE AND UNDERSIDE OF THE BOTTOM FLANGE OF THE EXISTING NORTH AND SOUTH EXTERIOR GIRDERS SHALL BE PAINTED WITH SYSTEM OZEU FOR THEIR ENTIRE LENGTH.

THE LUMP SUM PAY QUANTITIES FOR ALL 885 ITEMS ARE BASED ON THE CALCULATED SURFACE AREAS OF ALL EXISTING STRUCTURAL STEEL MEMBERS REQUIRING FIELD PAINTING AS CALLED FOR IN THESE PLANS:

CURB PLATES:	1,400 SF
GIRDERS:	26,489 SF
STIFFENERS:	1,949 SF
CROSS FRAMES:	4,373 SF
BEARINGS:	189 SF
STRINGERS:	2,108 SF
CROSS BRACINGS:	1,008 SF
PARAPET PLATES:	24 SF
10% ± MISC. STEEL	3,760 SF
	<hr/>
	41,300 SF

THE URETHANE FINISH COAT COLOR SHALL CLOSELY MATCH THE EXISTING WEATHERING STEEL COLOR (FEDERAL STD. NO. 595A - 10080).

ALL WORK REQUIRED FOR FIELD PAINTING THE EXISTING STRUCTURAL STEEL AS CALLED FOR IN THESE PLANS SHALL BE INCLUDED IN THE VARIOUS 885 ITEMS LISTED ON SHEET 6/11 FOR PAYMENT.

FIELD PAINTING OF NEW STEEL

THIS WORK INCLUDES FIELD PAINTING THE NEW STEEL CURB PLATE SECTIONS THAT ARE TO BE INSTALLED AT EACH EXPANSION JOINT LOCATION. THESE NEW PLATES ARE TO BE CLEANED AND PAINTED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 885 - FIELD PAINTING OF EXISTING STEEL WITH WARRANTY. THIS WORK SHALL ALSO BE COMPLETED IN ACCORDANCE WITH THE GENERAL NOTE STATED PREVIOUSLY FOR FIELD PAINTING OF EXISTING STEEL WITH WARRANTY.

BECAUSE OF THE VERY SMALL QUANTITY OF NEW STEEL TO BE CLEANED AND PAINTED, THIS WORK IS INCLUDED WITH THE VARIOUS 885 ITEMS FOR FIELD PAINTING EXISTING STEEL WITH WARRANTY.

ITEM 516 - STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL AS PER PLAN

THE STEEL EXPANSION JOINT ASSEMBLY, INCLUDING THE PREFORMED ELASTOMERIC STRIP SEAL, SHALL BE FABRICATED BY AN EXPERIENCED MANUFACTURER OF THIS TYPE OF JOINT (D.S. BROWN, WATSON-BOWMAN OR APPROVED EQUAL). THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE STEEL EXPANSION JOINT ASSEMBLY AS PER SECTION 501.05 OF THE 1997 OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THIS ITEM INCLUDES ALL THE NECESSARY FILLER PLATES, COVER PLATES AND ALL ADDITIONAL HARDWARE AND WORK TO INSTALL THIS JOINT.

THE SURFACES OF THE STEEL EXPANSION JOINT ASSEMBLY SHALL BE METALLIZED IN ACCORDANCE WITH ODOT STANDARD DRAWING EXJ-4-87.

THE PREFORMED ELASTOMERIC STRIP SEAL SHALL BE OF SUFFICIENT SIZE SO AS TO ALLOW A MINIMUM OF FOUR INCHES (4") TOTAL MOVEMENT. THE ELASTOMERIC STRIP SEAL SHALL BE CONTINUOUS FOR THE ENTIRE WIDTH OF THE BRIDGE.

DESIGN AGENCY
CUYAHOGA COUNTY ENGINEER
BRIDGE DESIGN DEPARTMENT

DATE
9/10/00

REVISION
WAD
STRUCTURE FILE NO.
1801074

DRAWN
Dunn

CHECKED
NRC

DESIGNED
Dunn

CHECKED
BGF

CUYAHOGA COUNTY
BRIDGE NO. 66
B-No. 84
Report No. 7248

GENERAL NOTES
DETROIT ROAD BRIDGE
OVER THE ROCKY RIVER

CUY-6A-00.42

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GENERAL NOTES & ESTIMATED QUANTITIES

ITEM 848 - WEARING COURSE REMOVED, ASPHALT, AS PER PLAN

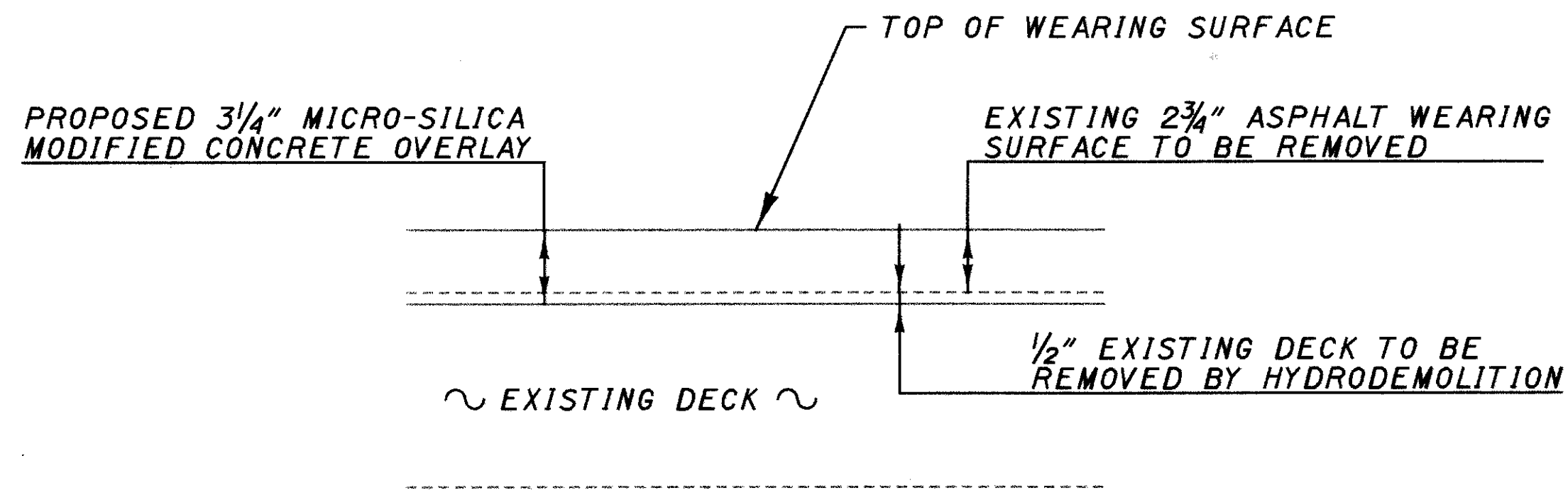
THIS ITEM SHALL INCLUDE ALL WORK NECESSARY FOR THE REMOVAL OF THE ASPHALT WEARING SURFACE ON THE BRIDGE DECK. IN ADDITION, THE STEEL 1.5"x1.5"x0.25" ANGLE OVER THE SUBSURFACE DRAINAGE TUBES NEAR THE CURBLINES (SEE DETAIL ON SHEET 10/11) SHALL BE REMOVED AND INCLUDED IN THIS ITEM FOR PAYMENT.

ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22, AS PER PLAN

THE COURSE AGGREGATE FOR THE ASPHALT CONCRETE SURFACE COURSE ON THE APPROACH SLABS SHALL BE CRUSHED CARBONATE STONE OR CRUSHED AIR-COOLED SLAG.

ITEM 848

NOTE: ALL REFERENCES TO PROPOSES 3" WEARING SURFACE/MICRO-SILICA MODIFIED CONCRETE OVERLAY SHALL NOW BE 3-1/4".



ITEM SPECIAL - CELLULAR PHONE

THE CONTRACTOR SHALL PROVIDE TWO (2) CELLULAR PHONES FOR USE BY ODOT ENGINEERS / SUPERVISORS / INSPECTORS.

PAYMENT FOR ALL MATERIAL, LABOR AND EQUIPMENT, INSTALLATION AND MAINTENANCE SHALL BE MADE AT THE CONTRACT BID PRICE FOR ITEM SPECIAL - CELLULAR PHONE.

ESTIMATED QUANTITIES						
ITEM	EXT. NO.	TOTAL	UNIT	DESCRIPTION	AS PER PLAN SH.	CONTINGENCY QTY. INCLUDED
ROADWAY						
202	30000	140	SF	WALK REMOVED		
254	01010	432	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE		
407	13900	44	GAL	TACK COAT, 702.13		
448	47021	21	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22, AS PER PLAN	6	
STRUCTURE						
SPECIAL	51267510	3936	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) (SEE PROPOSAL NOTE)		
SPECIAL	51273300	230	SY	SEALING, MISC.: SEALING DELAMINATED CONCRETE AREAS WITH EPOXY SEALER		
516	11211	180	LF	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	5	
SPECIAL	53000400	218	EACH	STRUCTURE MISC.: SUBSURFACE DRAINAGE TUBE PLUGGED		
MAINTENANCE OF TRAFFIC						
846	73000	4552	SY	TREATING CONCRETE BRIDGE DECKS WITH HMMM RESIN		
848	10000	4552	SY	MICRO-SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (3-1/4" THICK)		
848	30000	76	CY	MICRO-SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY		
848	50200	10	CY	FULL DEPTH REPAIR		
848	50301	4552	SY	WEARING COURSE REMOVED, ASPHALT, AS PER PLAN	6	
TRAFFIC CONTROL						
828	10100	0.27	MILE	LANE LINE		
828	10300	500	LF	CHANNELIZING LINE		
828	10200	0.14	MILE	CENTER LINE		
828	10400	72	LF	STOP LINE		
828	10500	240	LF	CROSSWALK LINE		
828	20300	7	EACH	LANE ARROW		
828	20400	1	EACH	WORD ON PAVEMENT, 72"		
TRAFFIC CONTROL						
616	10000	10	MGAL	WATER		
616	20000	1	TON	CALCIUM CHLORIDE		
TRAFFIC CONTROL						
614	11000	LUMP		MAINTAINING TRAFFIC		
623	10000	LUMP		CONSTRUCTION LAYOUT STAKES		
624	10000	LUMP		MOBILIZATION		
SPECIAL	69086000	2	EACH	CELLULAR PHONE		

DESIGN AGENCY
CUYAHOGA COUNTY ENGINEER
BRIDGE DESIGN DEPARTMENT

DATE
2/6/00
REVISIONS
UHD
ENGINEER FILE NO.
1801074

DRAWN
Dunn
CHECKED
NRC

DESIGNED
Dunn
CHECKED
S&F

CUYAHOGA COUNTY
BRIDGE NO. 66
B-No. 84
Report No. 7248

GENERAL NOTES & ESTIMATED QUANTITIES
DETROIT ROAD BRIDGE
OVER THE ROCKY RIVER

CUY-6A-00.42

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Plotting Scale: 1/8" = 1'-0"
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ITEM 614 - MAINTAINING TRAFFIC:

GENERAL

GENERALLY THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AS TO MAKE THE PROPOSED REPAIR WITH A MINIMUM OF HAZARD, DELAY AND INCONVENIENCE TO THE MOTORISTS USING THE HIGHWAY. FURTHERMORE, IN ADDITION TO THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE FOLLOWING SPECIFIC PROVISIONS ARE MANDATORY.

NOTIFICATION

SINCE FUNCTIONAL TRAFFIC CONTROL IS A MAJOR CONCERN ON THIS PROJECT, IT IS ESSENTIAL THAT THE MOTORING PUBLIC BE ADEQUATELY FOREWARNED ON FUTURE LANE CLOSURES AND TRAFFIC CONSTRUCTIONS. THEREFORE, THE CONTRACTOR SHALL SUBMIT A SCHEDULE TO THE OHIO DEPARTMENT OF TRANSPORTATION INDICATING THE LOCATIONS AND DATES OF THE LANE CLOSURES AT LEAST THREE (3) DAYS PRIOR TO THE IMPLEMENTATION OF ANY SUCH CLOSURES. THE CONTRACTOR SHALL ALSO NOTIFY THE LOCAL LAW ENFORCEMENT AGENCIES OF LANE CLOSURES AT LEAST THREE (3) DAYS PRIOR TO IMPLEMENTATION.

RESTRICTIONS

A MINIMUM OF ONE 12 FOOT LANE IN EACH DIRECTION SHALL BE PROVIDED AT ALL TIMES.

IN ADDITION, A LEFT TURN LANE SHALL BE PROVIDED AT EACH END OF THE STRUCTURE. THE TURN LANE SHALL BE A MINIMUM OF 12 FEET LONG AND 10 FEET WIDE.

ONE SIDEWALK MUST BE OPEN AT ALL TIMES FOR PEDESTRIAN TRAFFIC WITH A PROPER PEDESTRIAN DETOUR PROVIDED ACCORDING TO STANDARD DRAWINGS MT-110.10M, MT-110.20M, AND/OR MT-110.30M.

THE CONTRACTOR SHALL DEVISE A SIMPLE MAINTENANCE OF TRAFFIC SCHEME (AND HAND SKETCH) AND PRESENT IT TO THE DISTRICT WORK ZONE TRAFFIC CONTROL ENGINEER AND PROJECT ENGINEER FOR APPROVAL BEFORE BEGINNING WORK AT THAT LOCATION. THE MAINTENANCE OF TRAFFIC SCHEME SHALL PRESENT, IN GENERAL, THE METHODS FOR MAINTAINING TRAFFIC THAT THE CONTRACTOR PROPOSES TO USE FOR CONDUCTING THE REQUIRED WORK IN A SAFE AND EFFICIENT MANNER, SUPPORTED BY HAND SKETCHES AS NECESSARY. THE MAINTENANCE OF TRAFFIC PLAN SHALL BE IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION, THE REFERENCED STANDARD CONSTRUCTION DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL THE MAINTENANCE OF TRAFFIC PLAN HAS BEEN APPROVED.

ALL WORK SHALL BE CONDUCTED FROM WITHIN A CLOSURE USING DRUMS (42" TALL NIGHT CONES ARE PERMITTED ON THE STRUCTURES ONLY), ACCORDING TO THE RESTRICTIONS AND THE CONCEPTS PRESENTED IN MT-95.31M AND MT-95.32M AND ASSOCIATED STANDARD CONSTRUCTION DRAWINGS, (SEE LIST ON TITLE SHEET). A MINIMUM OF ONE 12' LANE IN EACH DIRECTION SHALL BE OPEN TO TRAFFIC AT ALL TIMES.

IF, DURING THE PROJECT, THE ENGINEER DETERMINES THAT THE APPROVED MAINTENANCE OF TRAFFIC PLAN IS NOT PERFORMING AS DESIRED, THE WORK SHALL BE SUSPENDED UNTIL THE PROBLEMS ARE RESOLVED TO THE SATISFACTION OF THE ENGINEER AND THE MAINTENANCE OF TRAFFIC PLAN IS REVISED ACCORDINGLY. ANY COSTS OR DELAYS INCURRED AS A RESULT OF THE FAILURE OF THE APPROVED MAINTENANCE OF TRAFFIC PLAN TO PERFORM TO THE SATISFACTION OF THE ENGINEER SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PAYMENT FOR ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

MAINTENANCE OF TRAFFIC SYSTEMS

A. WHEN REQUIRED

WHENEVER ANY PART OF THE TRAVELED SURFACE IS BEING WORKED UPON OR IS OTHERWISE NOT SUITABLE FOR SAFE AND CONVENIENT USE BY VEHICLES, TRAFFIC CONTROL DEVICES SUFFICIENT TO PROTECT SUCH AREAS TO ASSURE THE SAFE AND CONVENIENT PASSAGE OF VEHICULAR TRAFFIC SHALL BE INSTALLED AND MAINTAINED. SUCH TRAFFIC CONTROL DEVICES AND THE MANNER IN WHICH THEY ARE USED SHALL BE CONSISTENT WITH THESE PLANS AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (HEREINAFTER REFERRED TO AS THE "MANUAL"). THE TRAFFIC CONTROL DEVICE SYSTEM SHALL CONSTITUTE THE MINIMUM PROVISIONS FOR TRAFFIC CONTROL FOR EACH PARTICULAR SITUATION. WHENEVER THE ENGINEER DEEMS IT NECESSARY ESPECIALLY WHERE A GRADE, CURVE, OR MERGE CONDITIONS EXIST, HE MAY DIRECT THAT ADDITIONAL OR ALTERNATIVE DEVICES BE USED.

B. CONDITIONS

DURING ALL PARTS OF THIS PROJECT, SIGNING, BARRICADES, FLASHING AROWS, ETC. SHALL BE LOCATED AS INDICATED IN THE MANUAL, AS SHOWN ON THE MAINTENANCE OF TRAFFIC SHEETS OR AS SHOWN ON STANDARD DRAWINGS MT-97.10M, MT-95-31M AND MT-95.32M

C. ADVANCE WARNING SIGNS

ALL ADVANCE WARNING SIGNS FOR ANY CONDITION WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHENEVER THEY ARE NOT APPLICABLE.

D. FLASHING ARROW REQUIREMENT

FLASHING ARROWS SHALL BE FURNISHED AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS OR ON STANDARD DRAWING MT-95.31M AND MT-95.32M.

E. PROTECTION OF PUBLIC

WHENEVER ANY WORK IS BEING DONE OVER A TRAVELED LANE OR SHOULDER, THE CONTRACTOR SHALL SUPPLY SUFFICIENT SAFETY EQUIPMENT AS APPROVED BY THE DIRECTOR TO PROTECT THE TRAVELING PUBLIC FROM ANY CONSTRUCTION DEBRIS. IF TRAVELED LANES UNDER STRUCTURES ARE TO BE CLOSED FOR REASONS OF SAFETY, METHOD AND TIME OF CLOSURE MUST BE APPROVED PRIOR TO IMPLEMENTATION. PERSONAL CARS SHALL NOT BE PARKED WITHIN THE L/A.

F. FLAGGERS

FLAGGERS SHALL BE IN ACCORDANCE WITH MT-97.10M. THE MAINTENANCE OF TRAFFIC PLANS REQUIRE THE USE OF TWO (2) FLAGGERS. ADDITIONAL FLAGGERS SHALL BE USED AS DIRECTED BY THE ENGINEER.

G. FAILURE TO COMPLY

IF THERE IS ANY FAILURE TO COMPLY WITH PROVISION FOR TRAFFIC CONTROL SET OUT IN THESE PLANS AND NOTES, OR WITH THE PROVISIONS OF THE "MANUAL", THE HIGHWAY IN THE VICINITY OF THE WORK AREA SHALL NOT BE CONSIDERED IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC. ANY FAILURE TO KEEP THE HIGHWAY, IN THE VICINITY OF THE WORK AREA, IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC SHALL BE CONSIDERED A BREACH OF THIS CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISION OF THE AFOREMENTIONED ITEMS.

TRAFFIC CONTROL MATERIAL

A. SIGNS

SIGN DIMENSIONS AND SPECIFICATIONS, INCLUDING LETTER SIZES SHALL BE AS PROVIDED IN THE "MANUAL", OR IN DESIGN DRAWINGS PROVIDED BY THE DEPARTMENT OF TRANSPORTATION. THE SIGNS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER PRIOR TO THE START OF THIS PROJECT.

B. SIGN SUPPORTS

SIGN SUPPORTS SHALL BE AS SHOWN ON STANDARD DRAWINGS MT-105.10M AND MT-105.11M.

C. FLASHING ARROWS

THE ELECTRIC FLASHING ARROW SHALL BE AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-35.10M AND MT-35.11M.

D. CONES

CONES SHALL BE LOCATED AS SHOWN IN THE "MANUAL" AND THE TRAFFIC CONTROL PLANS.

E. DRUMS

DRUMS SHALL BE LOCATED AS SHOWN ON THE TRAFFIC CONTROL PLANS AND ARE REQUIRED FOR NIGHTTIME CLOSURES.

F. FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHT TIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR MAINTAINING TRAFFIC.

G. WORK VEHICLES

ALL WORK VEHICLES LICENSED TO OPERATE ON THE HIGHWAY, INCLUDING TRUCKS, SHALL BE EQUIPPED WITH A FLASHING, ROTATING OR OSCILLATING AMBER LIGHT VISIBLE TO ALL DIRECTIONS OF TRAFFIC FOR A MINIMUM OF ONE-HALF KILOMETER IN BRIGHT SUNLIGHT AND SHALL BE OPERATED WITH LIGHTED HEAD AND TAIL LAMPS. THE AMBER LIGHT SHALL BE IN OPERATION AT ALL TIMES WITHIN THE WORK ZONE AND WHILE TRAVELING TO AND FROM THE WORK ZONE WHENEVER THE VEHICLE SPEED IS BELOW 55 MPH. VEHICLE HAZARD LAMPS DO NOT SATISFY THIS REQUIREMENT. ALL OTHER EQUIPMENT SHALL BE EQUIPPED WITH A FLASHING, ROTATING OR OSCILLATING AMBER LIGHT VISIBLE IN ALL DIRECTIONS OF TRAFFIC FOR A MINIMUM OF ONE-HALF KILOMETER IN BRIGHT SUNLIGHT. THE AMBER LIGHT SHALL BE IN OPERATION WHILE THE EQUIPMENT IS WITHIN THE WORK ZONE.

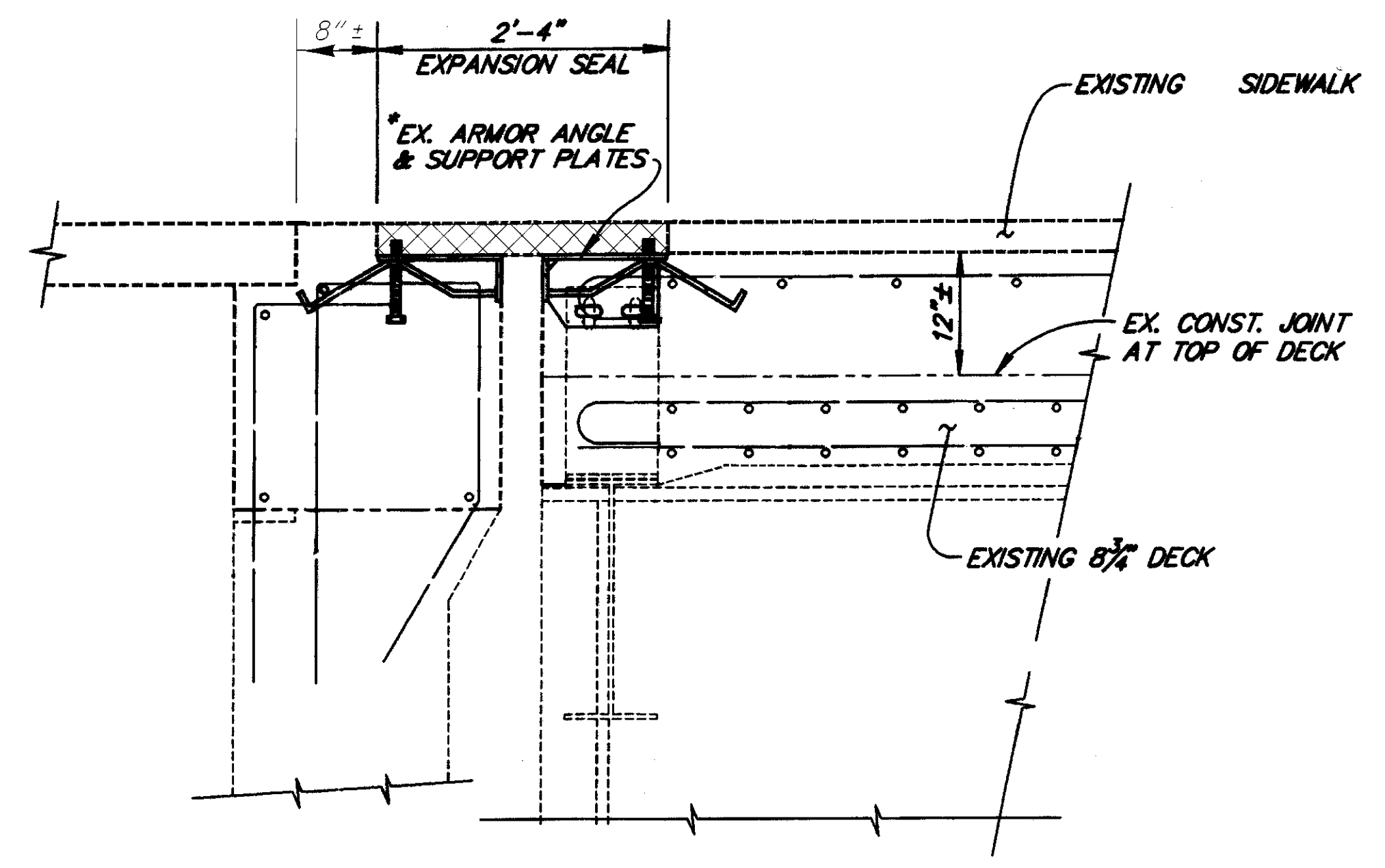
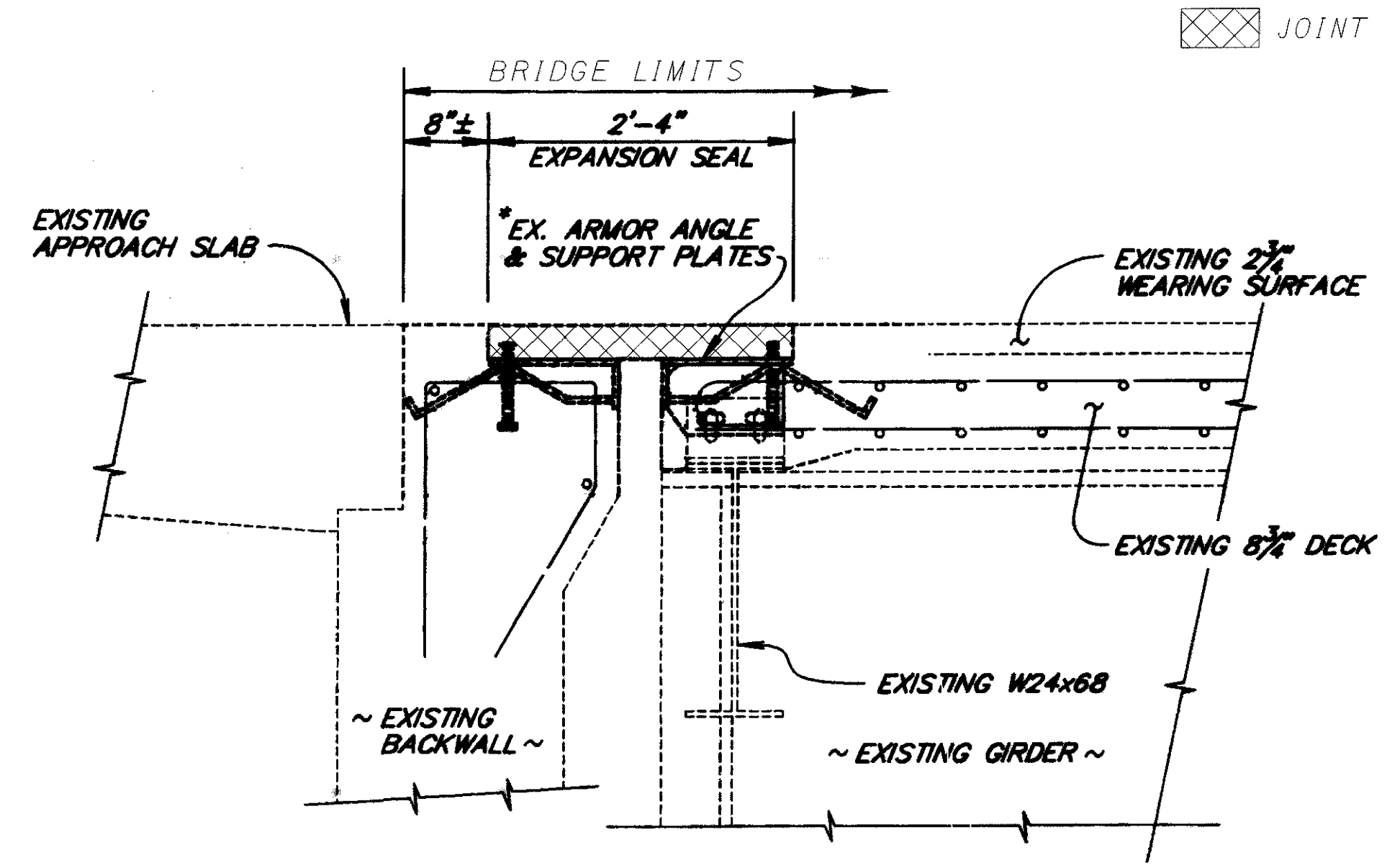
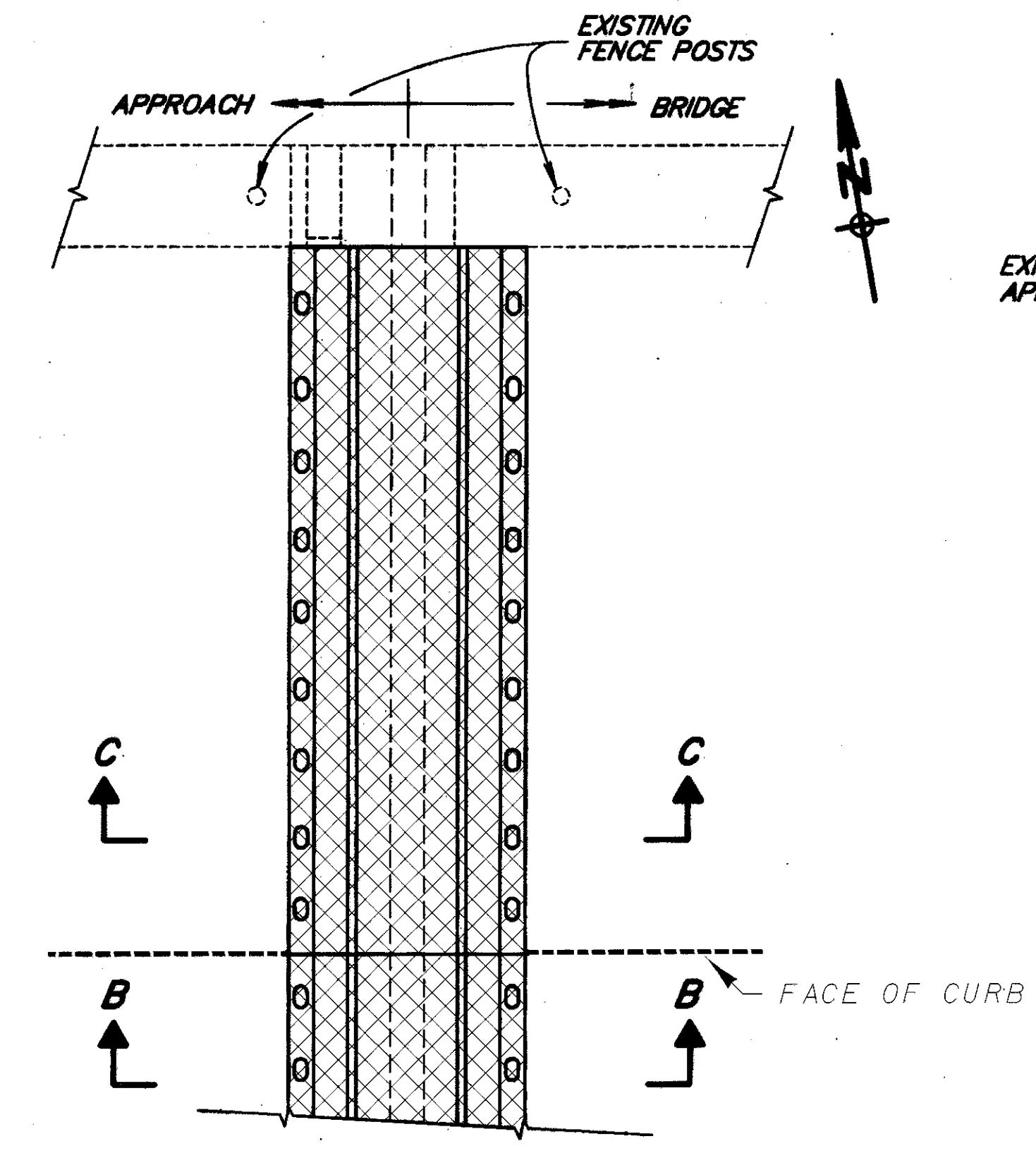
PAYMENT

PAYMENT FOR PROVIDING, ERECTING, MAINTAINING AND REMOVING TEMPORARY MAINTENANCE OF TRAFFIC CONTROL DEVICES SHALL BE MADE UNDER THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

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MAINTENANCE OF TRAFFIC NOTES

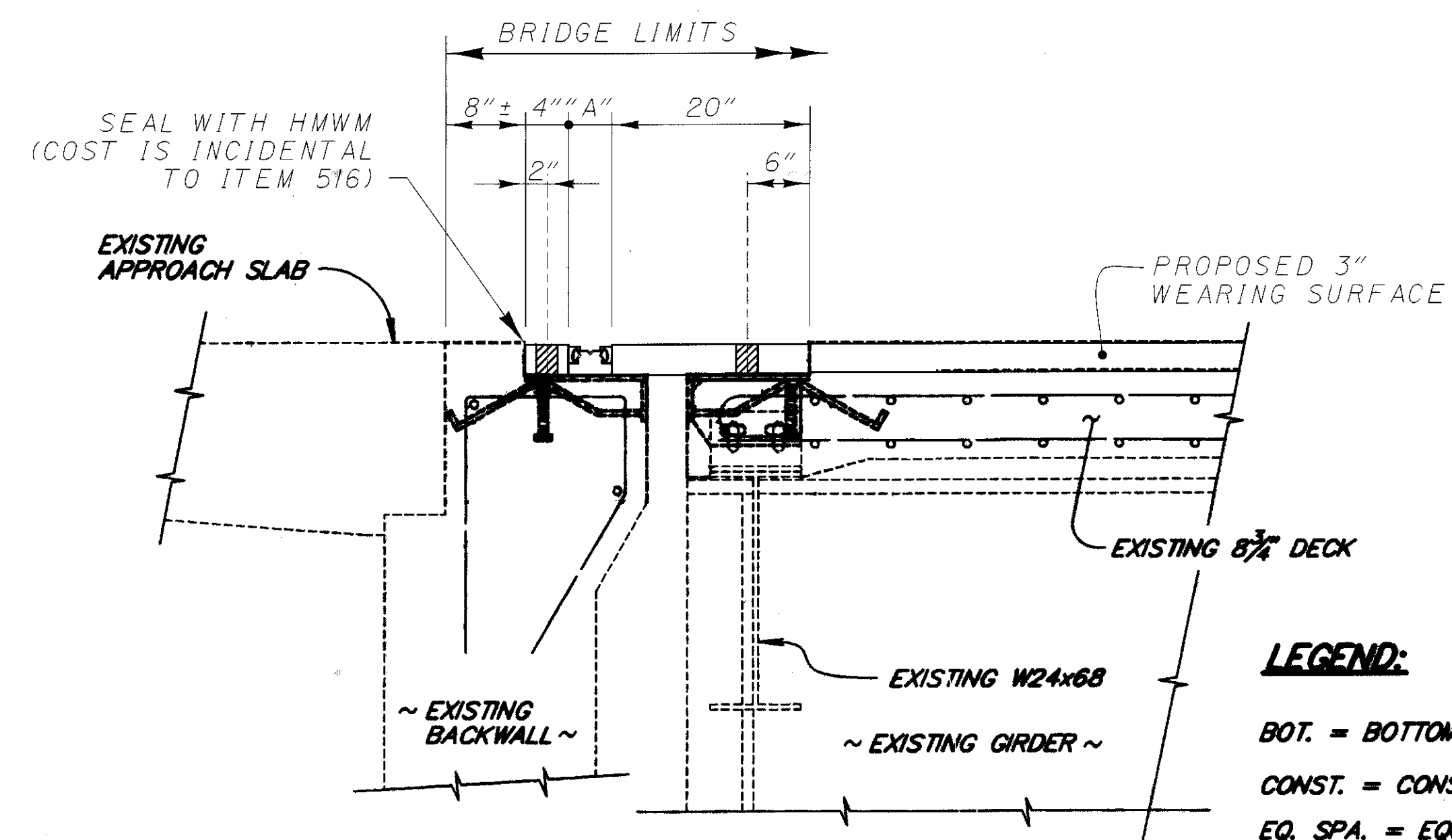
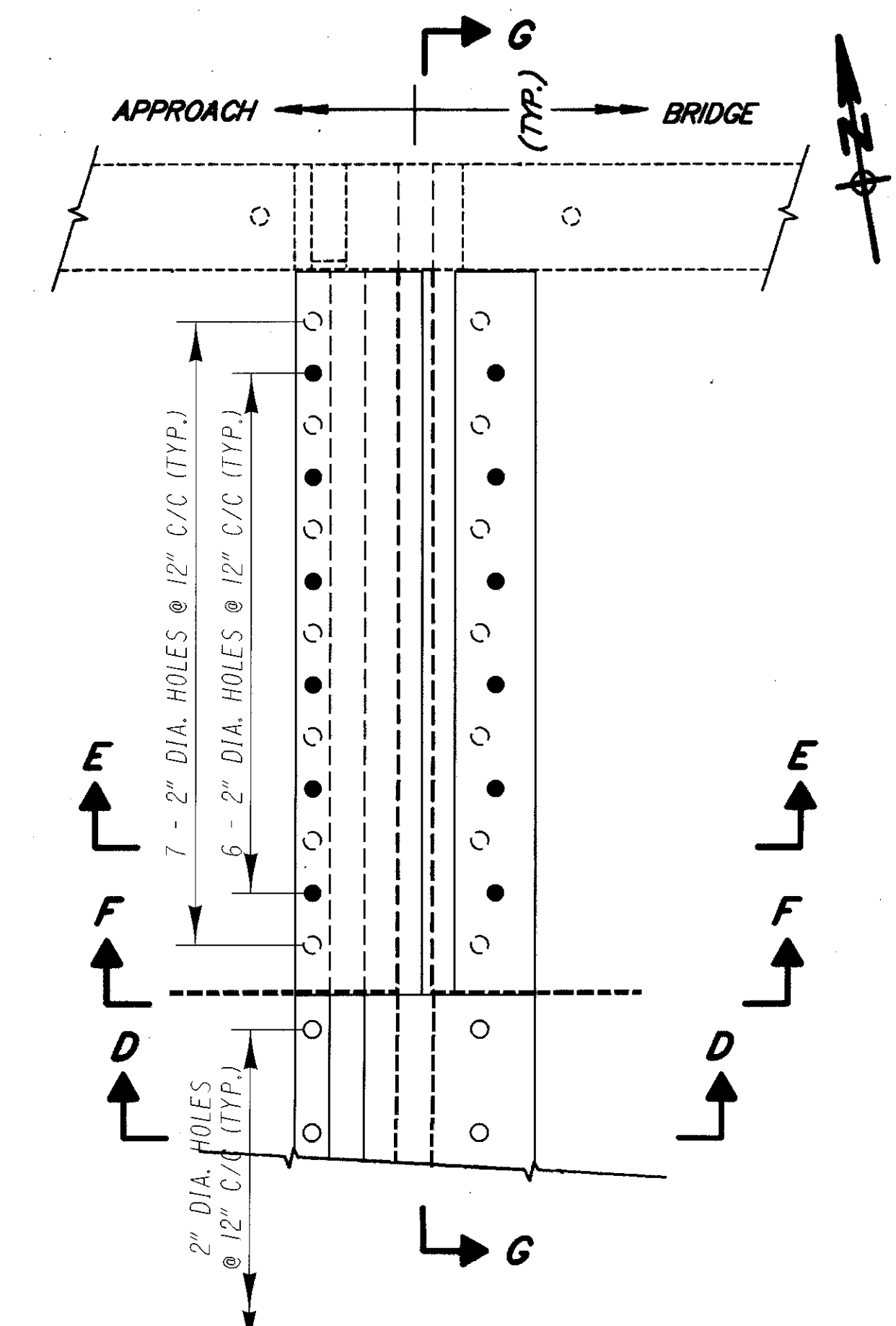
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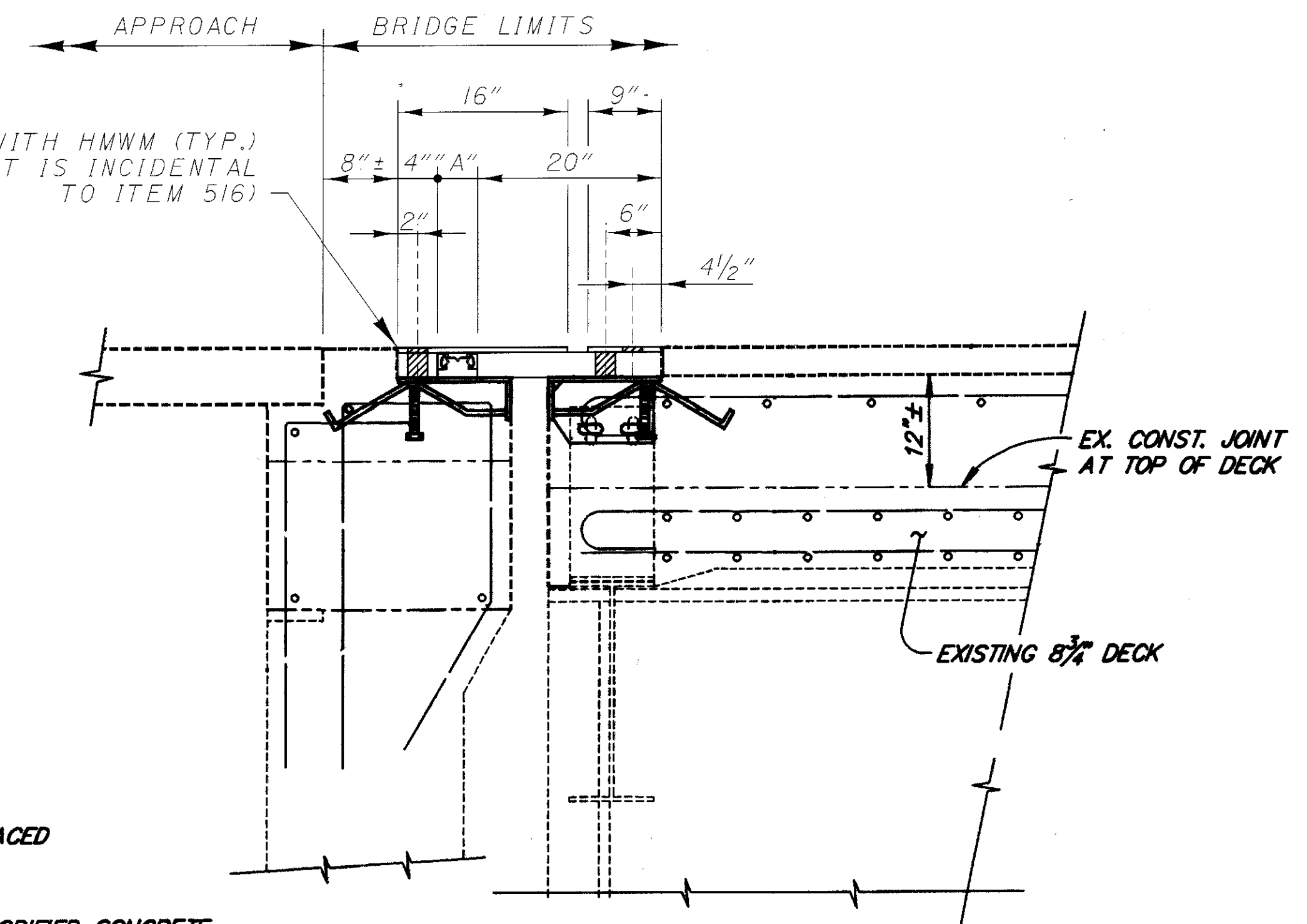
PLAN
EXISTING EXPANSION JOINT (WABOFLEX SR 6.5A)
(SIDEWALK JOINT ARMOR - NW CORNER SHOWN, OTHERS SIMILAR)

SECTION B-B
EXISTING EXPANSION JOINT (ROADWAY)

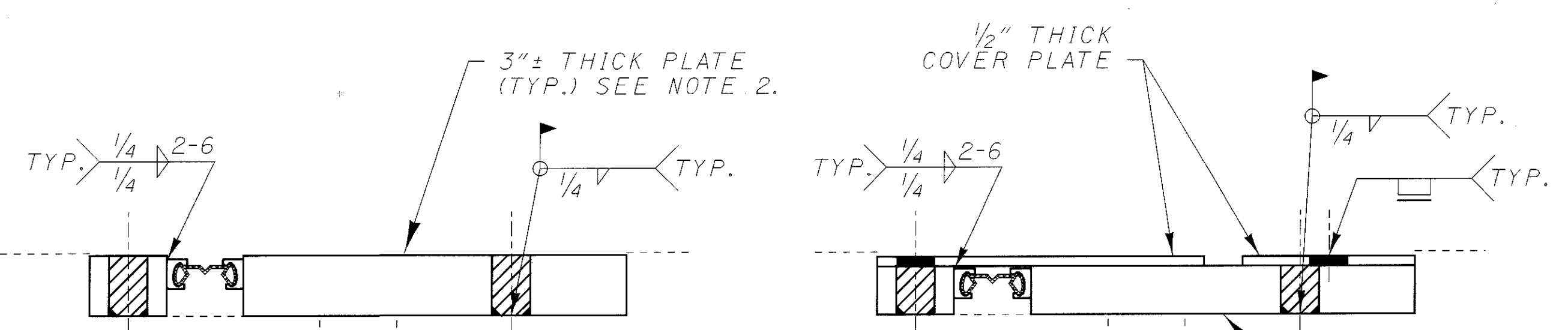
SECTION C-C
EXISTING EXPANSION JOINT (SIDEWALK)



SEAL WITH HMWM (TYP.)
(COST IS INCIDENTAL TO ITEM 516)



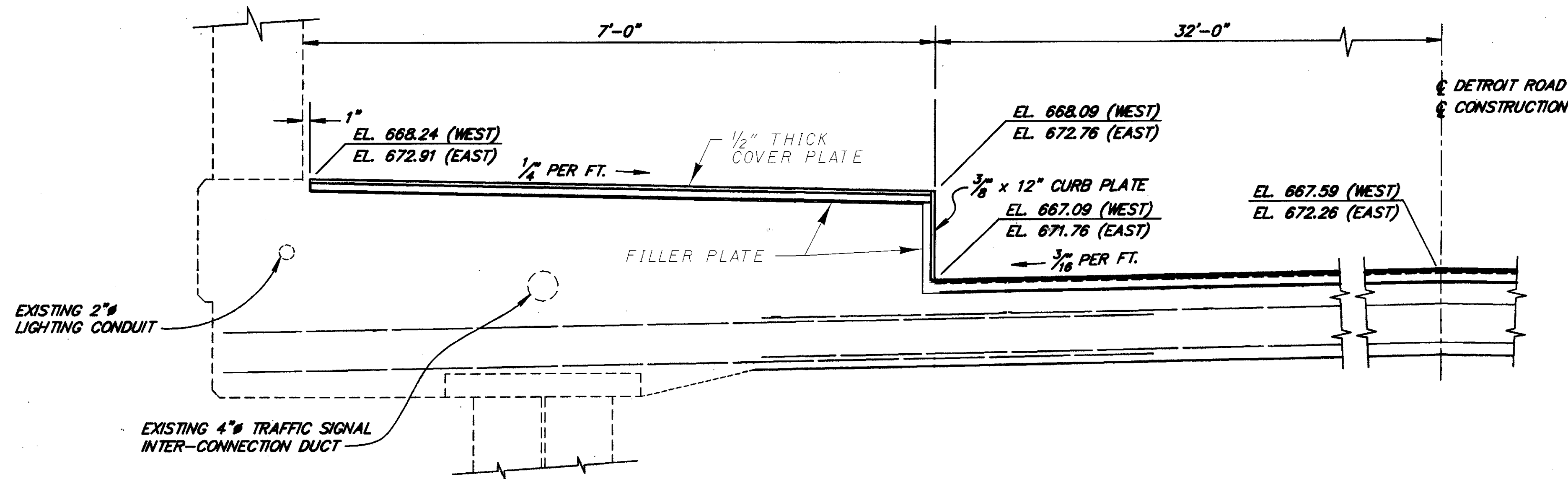
- LEGEND:**
- BOT. = BOTTOM
 - CONST. = CONSTRUCTION
 - EQ. SPA. = EQUALLY SPACED
 - EX. = EXISTING
 - MSMC = MICRO-SILICA MODIFIED CONCRETE
 - NW = NORTHWEST
 - TYP. = TYPICAL



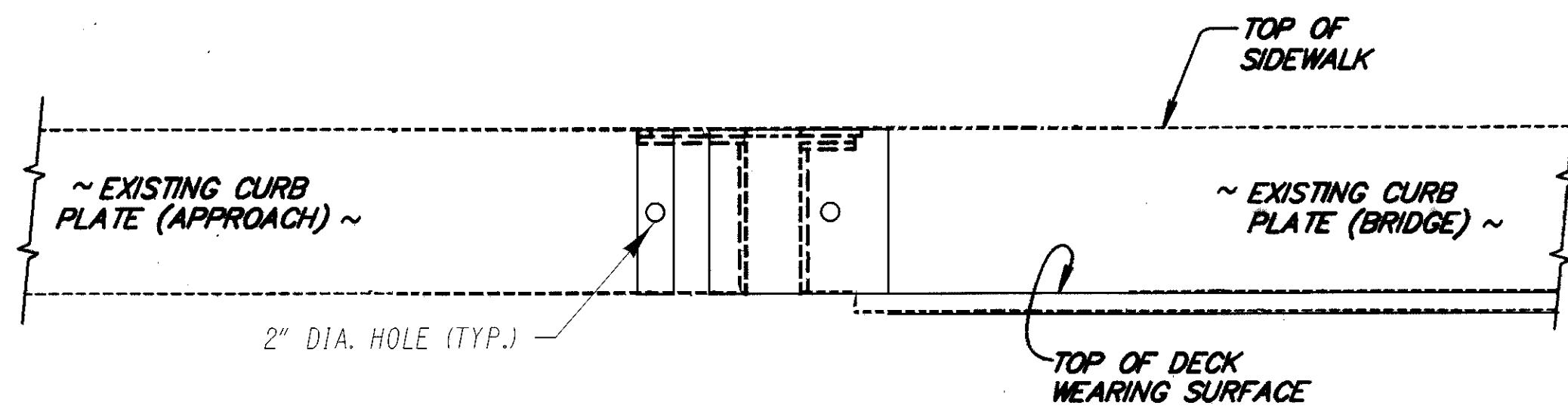
- NOTES:**
1. UNBOLT EXISTING JOINT AND REMOVE. CUT BOLTS FLUSH WITH EXISTING ARMOR ANGLES AND SUPPORT PLATES. WELD FILLER PLATES AND INSTALL NEW JOINT. PLUG WELD 1/2" THICK COVER PLATE FLUSH WITH THE SIDEWALK.
 2. CONTRACTOR SHALL VERIFY ALL PLATE THICKNESSES.
 3. FOR SECTION F-F AND G-G SEE SHEET 9/II.
 4. FOR FURTHER EXPANSION JOINT DETAILS, REFER TO ODOT STANDARD DRAWING EXJ-4-87M.
 5. FOR DIMENSION "A", SEE THE EXPANSION JOINT SETTING TABLE ON SHEET 9/II.

Plotting Scale: 1/8" = 1'-0"
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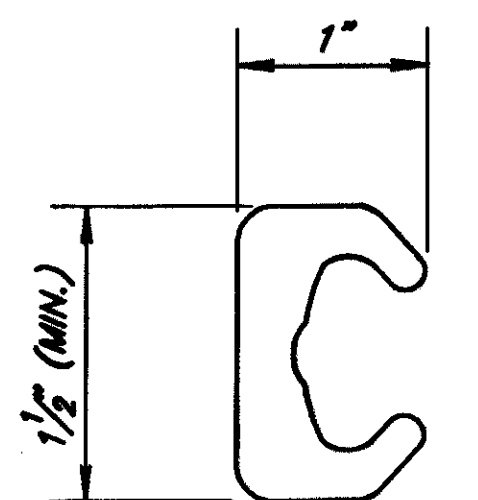
EXPANSION JOINT DETAILS DETROIT ROAD BRIDGE OVER THE ROCKY RIVER	DESIGN AGENCY CUYAHOGA COUNTY ENGINEER BRIDGE DESIGN DEPARTMENT
CUYAHOGA COUNTY BRIDGE NO. 66 B-No. 84 Report No. 7248	DATE 7/9/00 STRUCTURE FILE NO. 1801074
DRAWN S. M. S.	CHECKED B. G. F.
REVISIONS W. P. D.	NRC
CUY-6A-00.42	
8 11	



SECTION G-G
(REFER TO SHEET 8/11 FOR FOR LOCATION OF THIS SECTION)



SECTION F-F
(CURB ELEVATION, JOINT RETAINERS AND SEAL NOT SHOWN)
REFER TO DETAIL D ON SHEET 8/11 FOR WELDS



**STRIP SEAL
RETAINER DETAIL**

EXPANSION JOINT SETTING TABLE

TEMPERATURE (°F)	'A' (JT. OPENING)
30°	4 3/4"
40°	4 1/2"
50°	4 1/4"
60°	4"
70°	3 3/4"
80°	3 1/2"
90°	3 1/4"

NOTES:

1. FOR ADDITIONAL DETAILS AND DIMENSIONS REGARDING THE PROPOSED EXPANSION JOINT, SEE ODOT STD. DRAWING EXJ-4-87 (NOTE THAT STD. DRAWING EXJ-4-87 HAS BEEN MODIFIED IN THE DESIGN OF THIS JOINT).

Plotting Scale: 1/8" = 1'-0"
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DESIGN AGENCY
CUYAHOGA COUNTY ENGINEER
BRIDGE DESIGN DEPARTMENT

DATE
3/9/00
REVISIONS
CWD
STRUCTURE FILE NO.
1801074

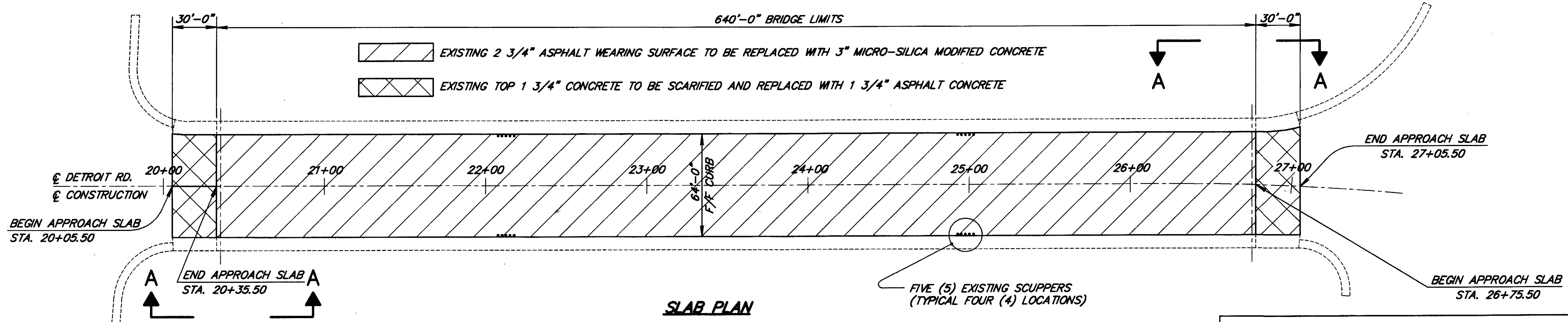
DESIGNED
DMM
CHECKED
BGF

CUYAHOGA COUNTY
BRIDGE NO. 66
B-No. 84
Report No. 7248

EXPANSION JOINT DETAILS
DETOIT ROAD BRIDGE
OVER THE ROCKY RIVER

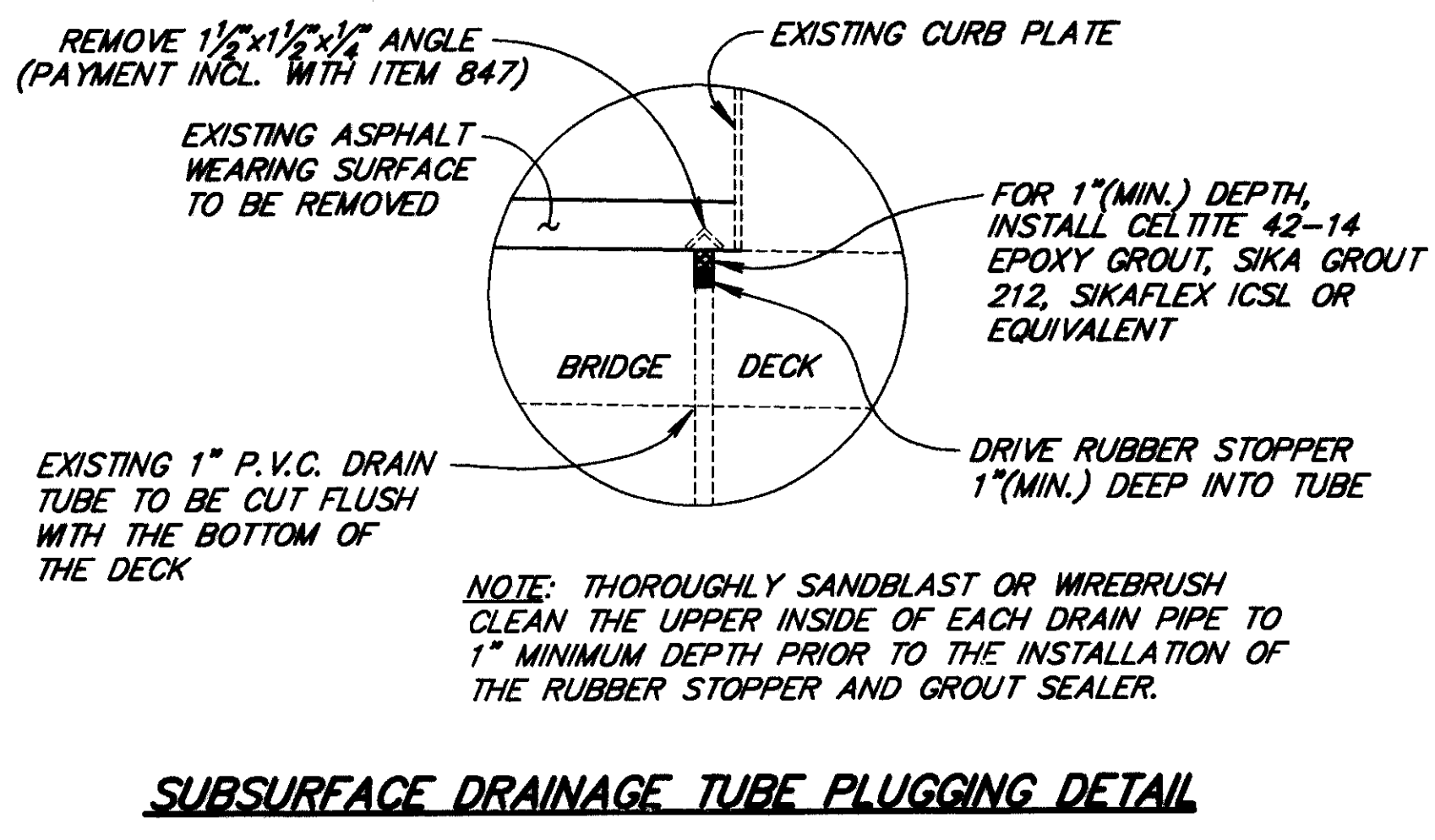
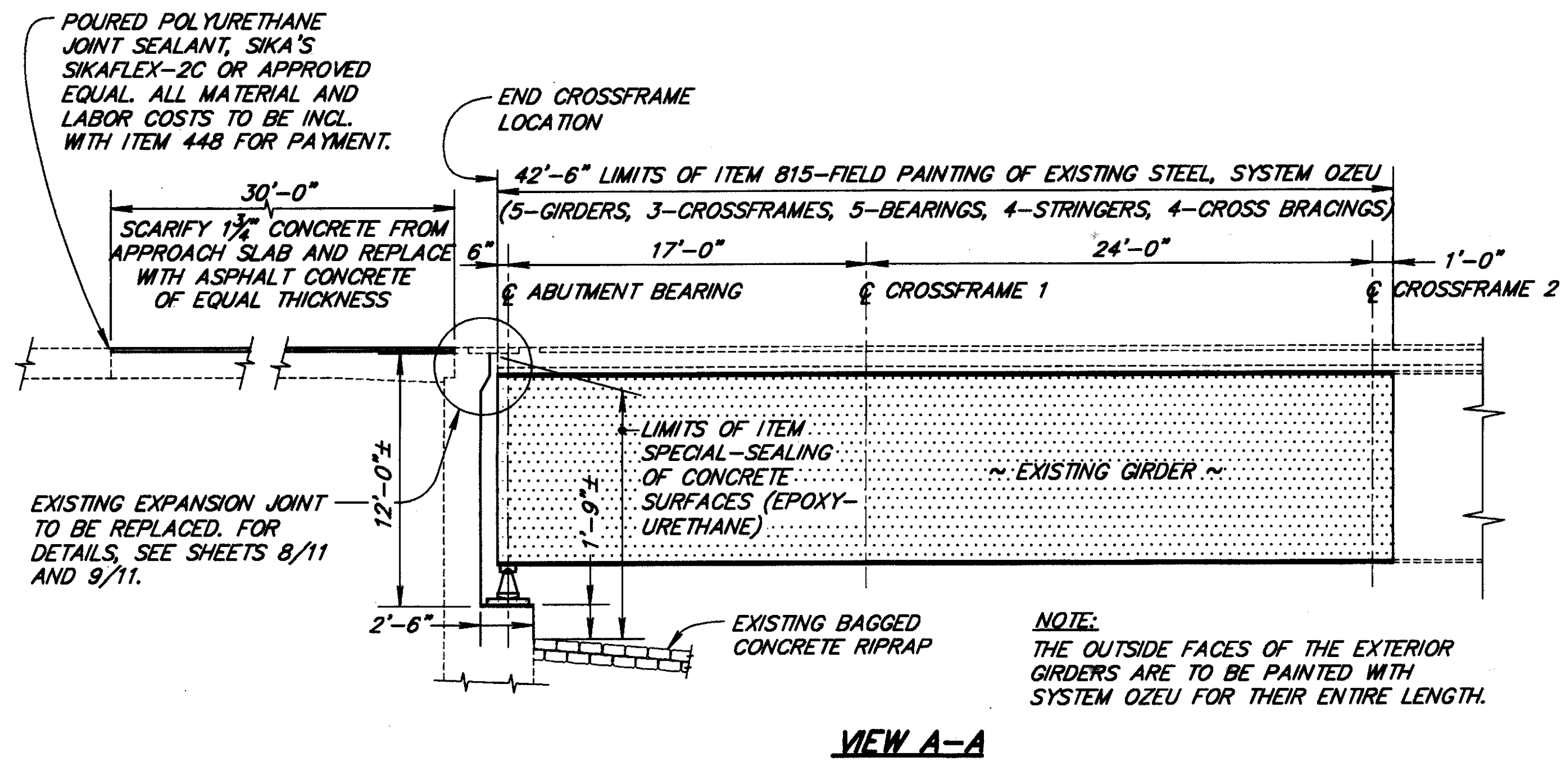
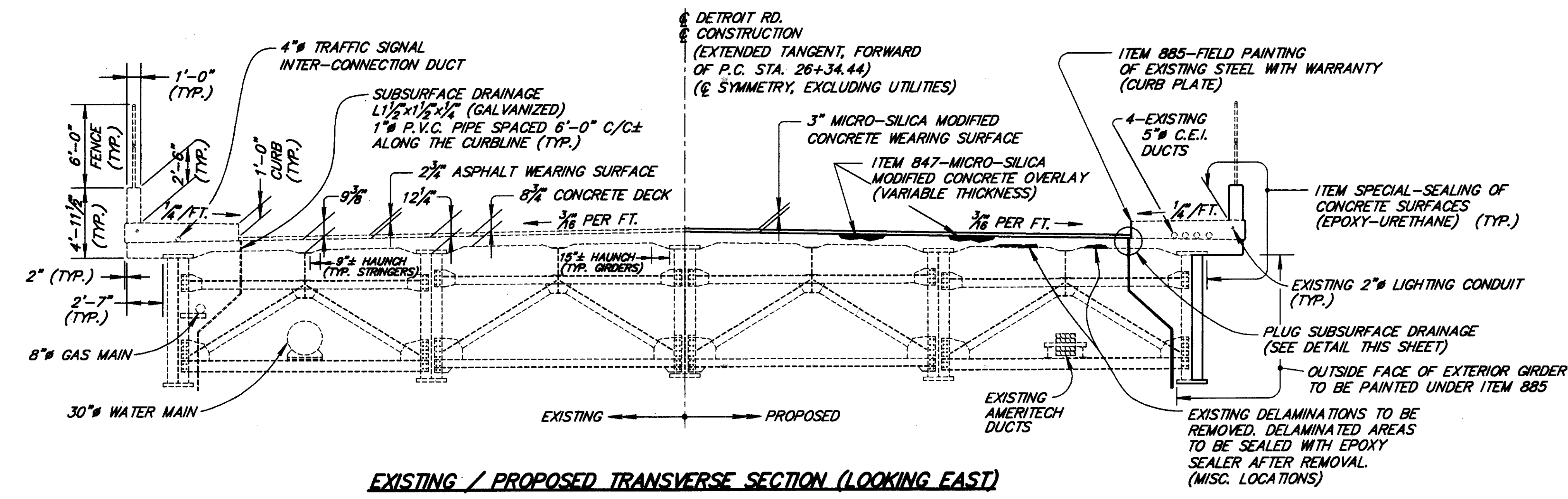
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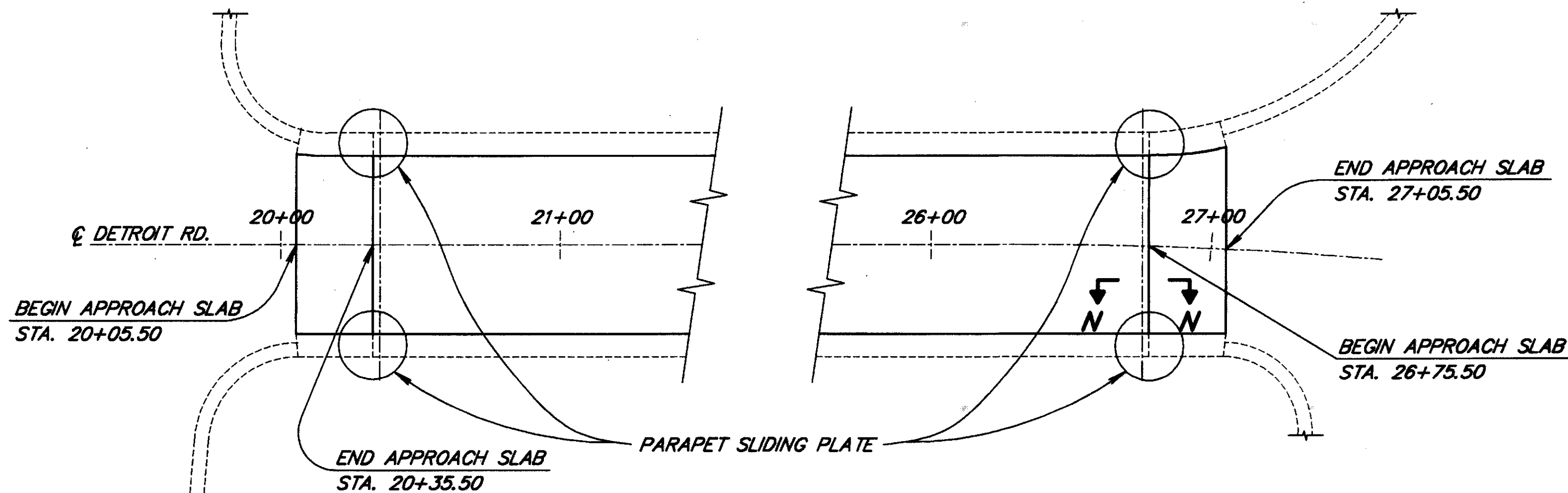
PROPOSED WEARING SURFACE FINAL GRADE ELEVATIONS

STATION	N. CURB LINE	CENTERLINE	S. CURB LINE	DESCRIPTION
20+05.50	667.02	667.52	667.02	BEGIN APPROACH SLAB
20+35.50	667.09	667.59	667.09	END APPROACH SLAB
20+50	667.19	667.69	667.19	
20+75	667.37	667.87	667.37	
21+00	667.56	668.06	667.56	
21+25	667.74	668.24	667.74	
21+50	667.92	668.42	667.92	
21+75	668.10	668.60	668.10	
22+00	668.29	668.79	668.29	
22+25	668.47	668.97	668.47	
22+50	668.65	669.15	668.65	
22+75	668.83	669.33	668.83	
23+00	669.02	669.52	669.02	
23+25	669.20	669.70	669.20	
23+50	669.38	669.88	669.38	
23+75	669.56	670.06	669.56	
24+00	669.75	670.25	669.75	
24+25	669.93	670.43	669.93	
24+50	670.11	670.61	670.11	
24+75	670.29	670.79	670.29	
25+00	670.48	670.98	670.48	
25+25	670.66	671.16	670.66	
25+50	670.84	671.34	670.84	
25+75	671.02	671.52	671.02	
26+00	671.21	671.71	671.21	
26+25	671.39	671.89	671.39	
26+50	671.57	672.07	671.57	
26+75	671.75	672.25	671.75	
26+75.50	671.76	672.26	671.76	BEGIN APPROACH SLAB
27+00	672.01	672.51	672.01	
27+05.50	672.06	672.56	672.06	END APPROACH SLAB

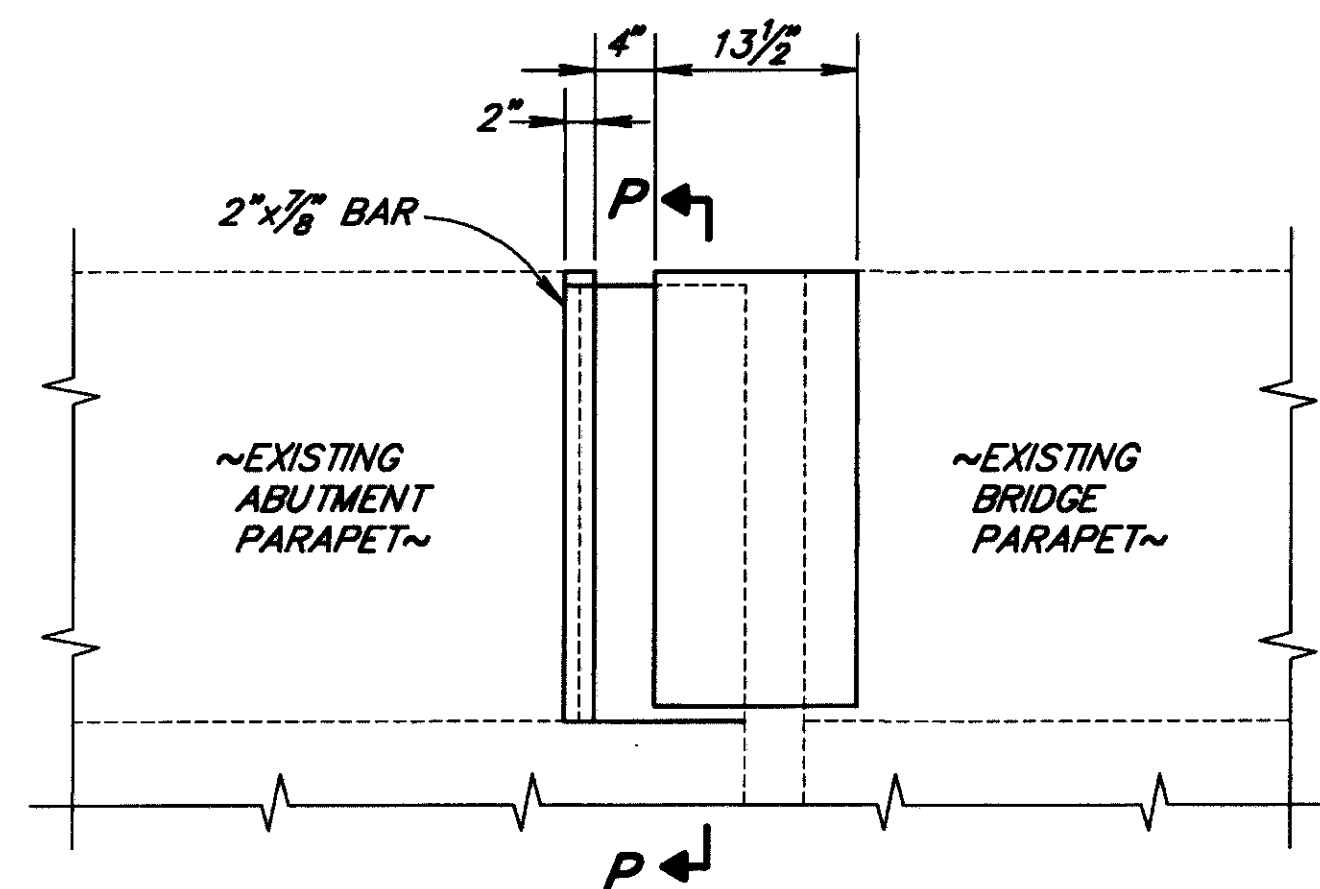


- NOTES:
1. THE LOWER CROSS BRACINGS ARE NOT SHOWN, BUT THEY SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS OF ITEM 885. THE CROSS BRACINGS ARE LOCATED FROM THE END CROSSFRAME TO CROSSFRAME 2 BETWEEN THE EXTERIOR AND FIRST INTERIOR GIRDERS ON BOTH THE NORTH SIDE AND SOUTH SIDE OF THE BRIDGE. ALL WORK ASSOCIATED WITH PAINTING THESE CROSS BRACINGS SHALL BE INCLUDED WITH ITEM 885 FOR PAYMENT.
 2. PAYMENT FOR PLUGGING THE SUBSURFACE DRAINAGE SHALL BE UNDER ITEM SPECIAL - STRUCTURE MISC.: SUBSURFACE DRAINAGE TUBE PLUGGED. REFER TO SHEET 5/11 FOR ADDITIONAL NOTES RELATING TO THIS WORK ITEM.
 3. THE EXISTING SCUPPERS SHALL NOT BE PLUGGED WITH CONCRETE WHEN THE NEW CONCRETE WEARING SURFACE IS PLACED. PRIOR TO PLACING THE NEW WEARING SURFACE, SILICONE SEALANT (SIKAFLEX-2C OR EQUIVALENT) SHALL BE USED TO SEAL THE JOINT BETWEEN THE SCUPPERS AND THE TOP OF THE CONCRETE DECK. THE EDGES OF THE CONCRETE WEARING SURFACE AROUND THE SCUPPER OPENINGS SHALL BE FINISHED SO AS TO ALLOW POSITIVE DRAINAGE OF WATER INTO THE SCUPPERS. PAYMENT FOR ALL WORK SHALL BE INCLUDED WITH ITEM 847.

Plotting Scale: 1/64

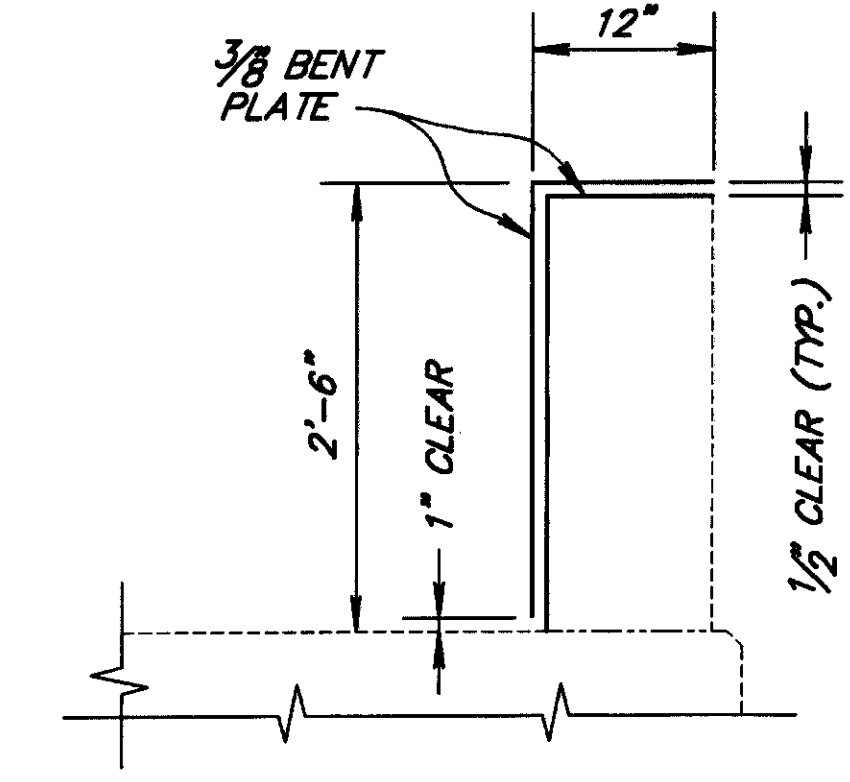


PARAPET SLIDING PLATE LOCATION PLAN



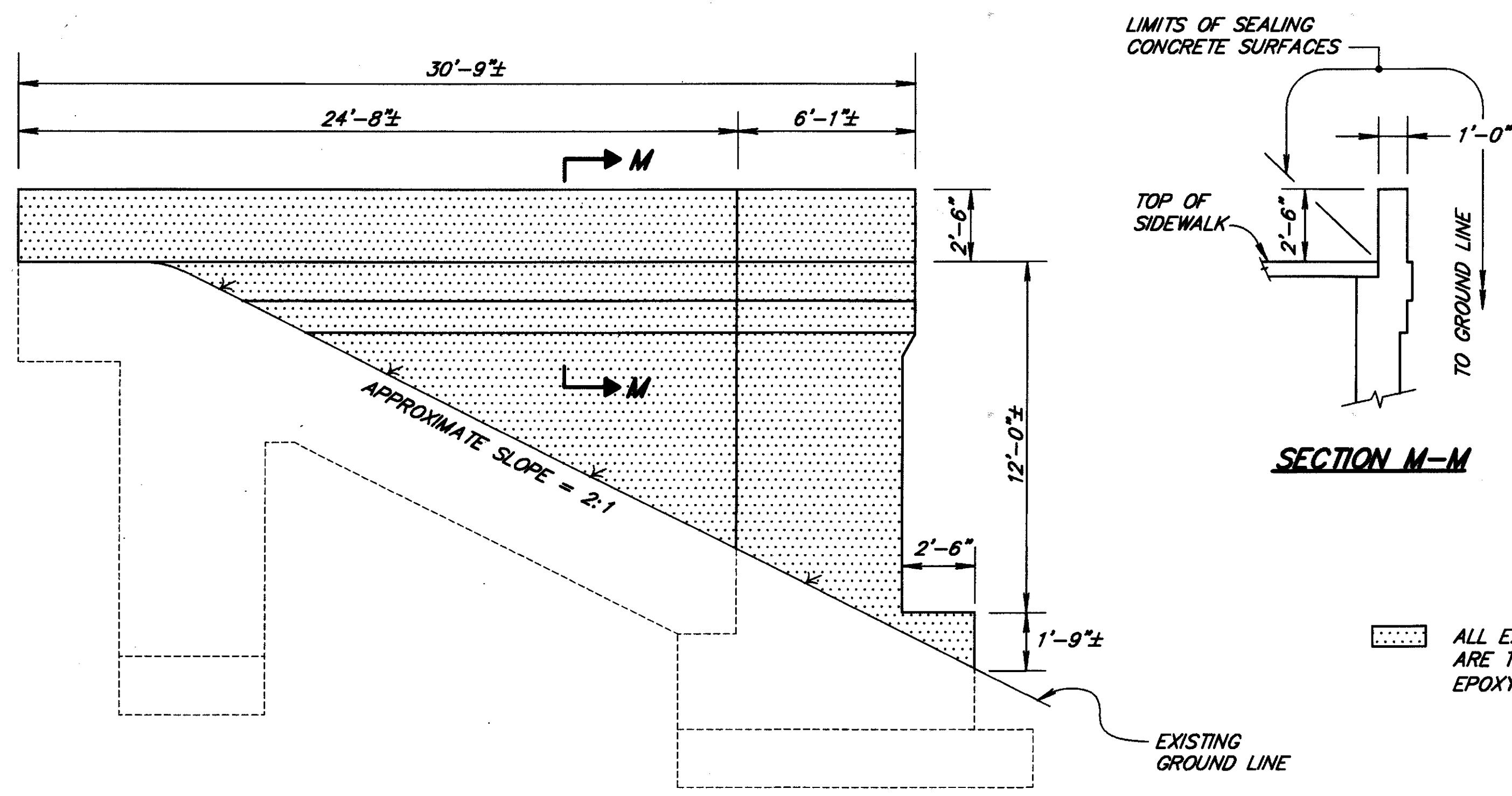
VIEW N-N

(OTHER PARAPET SLIDING PLATES SIMILAR)

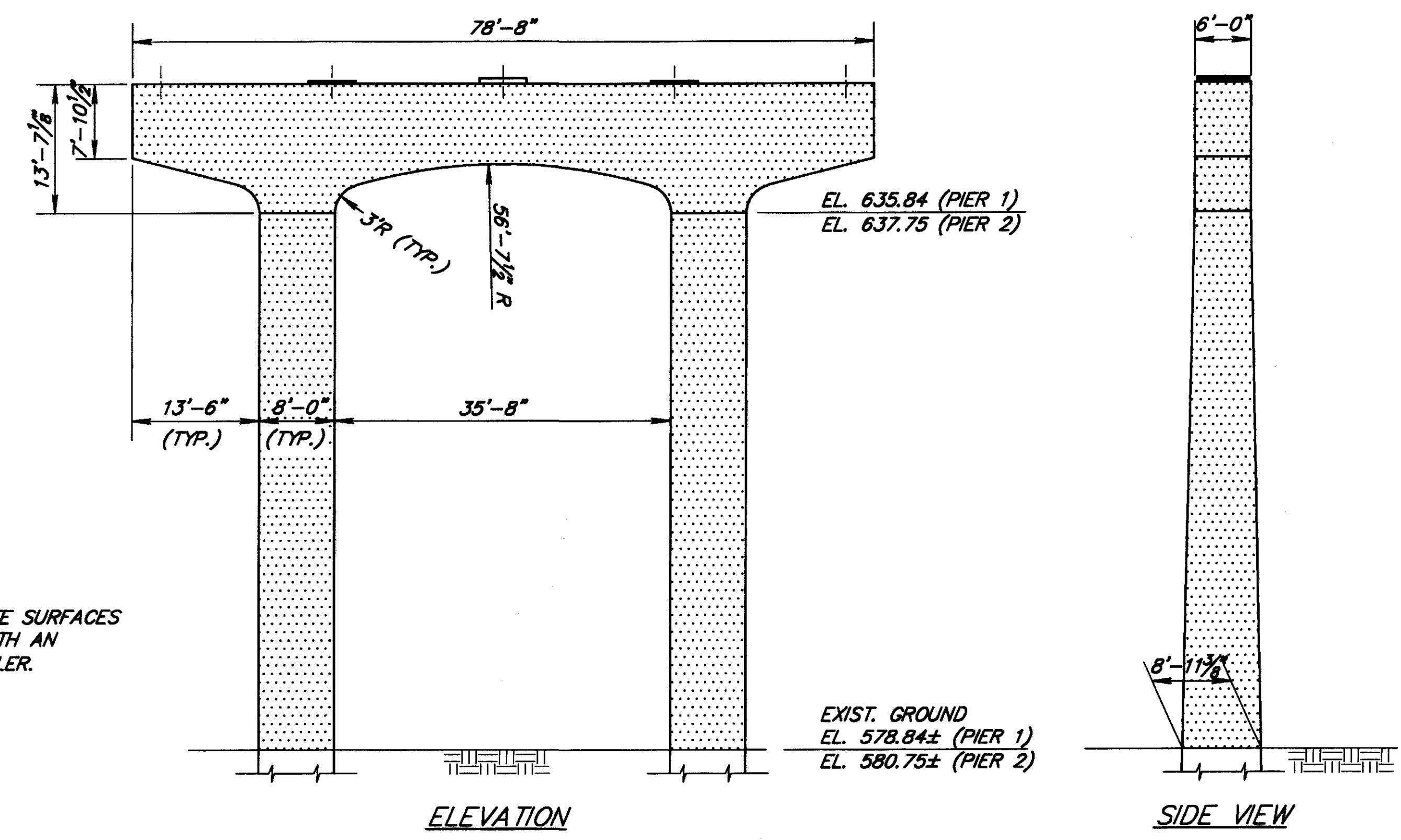


SECTION P-P

NOTE: CLEAN AND PAINT ALL EXPOSED SURFACES OF THE PARAPET SLIDING PLATES. THE CONTRACTOR SHALL ALSO REMOVE ANY PACK RUST THAT MAY HAVE DEVELOPED IN THE 1/2" CLEAR SPACE BETWEEN THE SLIDING PLATES TO ENSURE THAT THE PARAPETS ARE FREE TO MOVE WHILE EXPANDING AND CONTRACTING. PAYMENT FOR ALL WORK INVOLVED SHALL BE INCLUDED WITH ALL 885 ITEMS - FIELD PAINTING OF EXISTING STEEL WITH WARRANTY.



SEALING OF CONCRETE SURFACES - WINGWALLS
DIMENSIONS FOR THE SOUTHWEST WINGWALL SHOWN, OTHERS SIMILAR
(FOUR (4) WINGWALLS TOTAL)



ELEVATION

SIDE VIEW

SEALING OF CONCRETE SURFACES - PIER 1 & PIER 2

Plotting Scale: 1/64

DESIGN AGENCY CUYAHOGA COUNTY ENGINEER BRIDGE DESIGN DEPARTMENT	DATE 4/8/00
REVIEWED WJD	STRUCTURE FILE NO. 1801074
DRAWN DMM	REVISIONS
DESIGNED DMM	CHECKED BGF
CUYAHOGA COUNTY BRIDGE NO. 66 B-No. 84 Report No. 7248	
MISCELLANEOUS DETAILS DETROIT ROAD BRIDGE OVER THE ROCKY RIVER	
CUY-6A-00.42	
11 11	