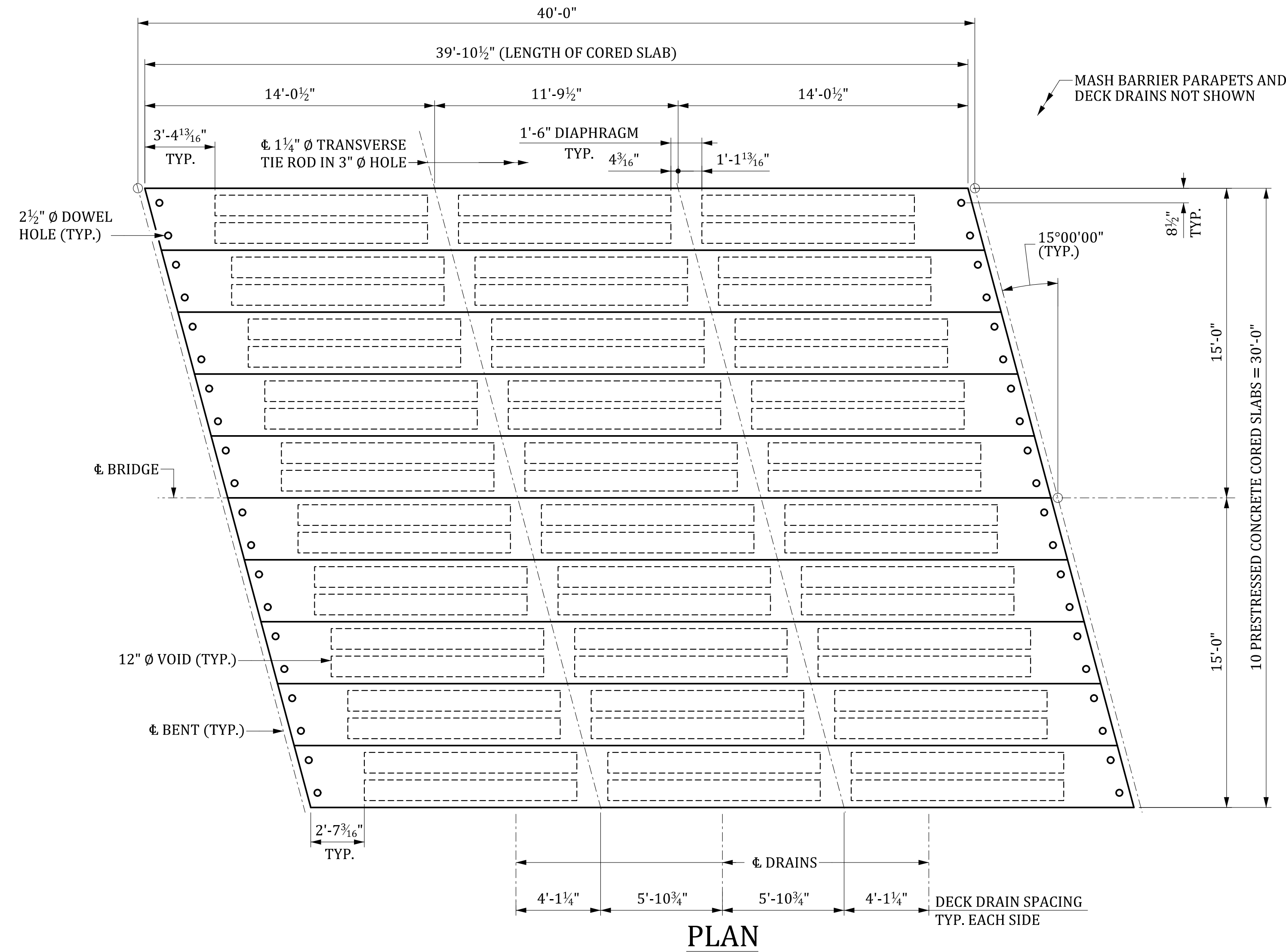
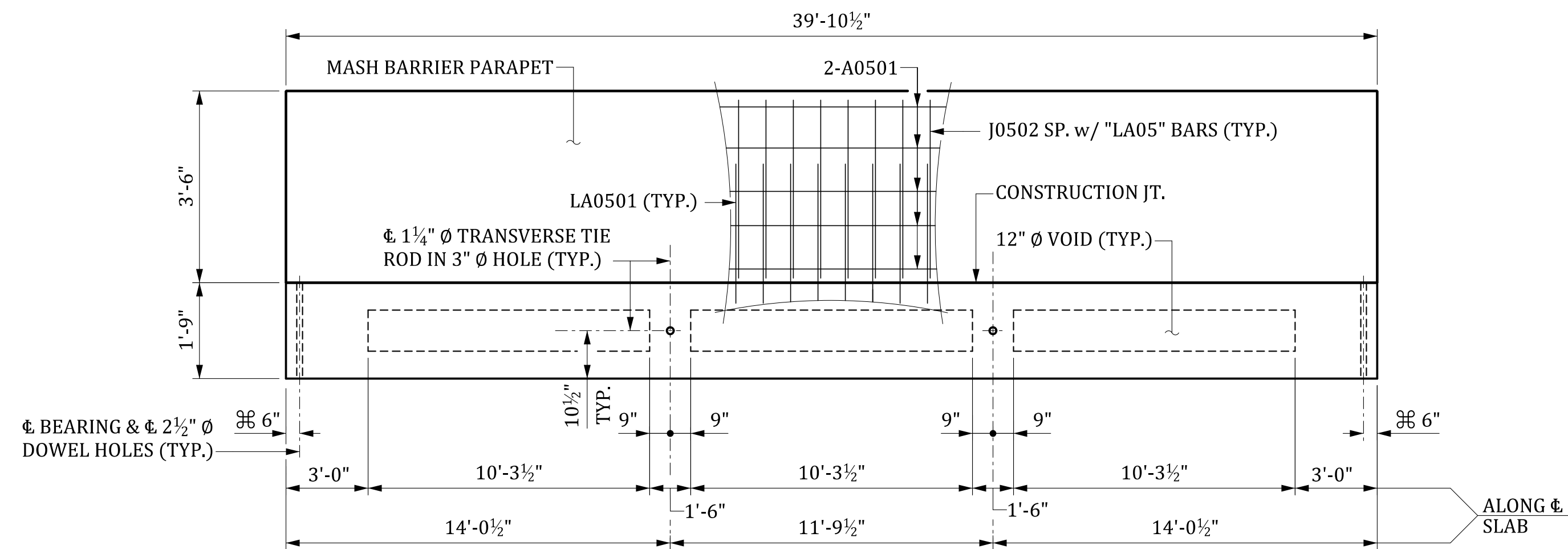


DEAD LOAD DEFLECTION & CAMBER	
CAMBER AT ERECTION (SLAB ALONE IN PLACE)	↑ 7/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE	↓ X"
FINAL CAMBER	↑ X"



PLAN



ELEVATION

⊕ NORMAL TO END OF SLAB

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
 FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 40' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 40' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	20'-9"	---	---	---	---	20'-9"
J0401	8	1'-10 1/2"	1'-6"	---	---	---	4'-11"
J0402	70	2'-8"	1'-6"	---	---	---	5'-8"
J0403	4	1'-5 1/2"	2'-8"	---	---	---	6'-10"
J0404	12	2'-8 1/2"	1'-6"	---	---	---	5'-9"
J0405	20	2'-9"	1'-6"	---	---	---	5'-9"
J0501	8	2'-7"	6"	---	---	---	3'-7"
LA0501	① 50	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	518	961
CONCRETE, Fc 5,000	CY	5.9	5.9
0.6" Ø L.R. STRANDS	LF	479	479

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 40' BARRIER PARAPET						
MARK	NO. REQ'D	DIMENSION				LENGTH
		"a"	"b"	"c"	"d"	
A0501	10	39'-6"	---	---	---	39'-6"
A0502	6	5'-0"	---	---	---	5'-0"
J0502	56	5 1/2"	3'-3"	---	---	7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	80.0
REINFORCING STEEL	LB	852
MASH CONCRETE BARRIER PARAPET	LF	40.0

ESTIMATED QUANTITIES - ONE 40' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	160.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,704
3'-0" X 1'-9" CORED SLABS	LF	398.8
MASH CONCRETE BARRIER PARAPET	LF	80.0
ELASTOMERIC BEARING	EA	20
BRIDGE DECK WATERPROOFING	SY	123.7

NOTE:

FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

THIS DRAWING IS FURNISHED FOR INFORMATION ONLY. ALL DIMENSIONS SHOWN ARE SHEET SPECIFIC. ANY USE OF THIS DESIGN AND DRAWING, INCLUDING DIMENSIONS, MUST BE CHECKED BY THE USER'S ENGINEER TO ENSURE DESIGN IS ADEQUATE FOR THE INTENDED USE. ALL DRAWINGS MUST BE SIGNED AND SEALED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER WHEN USED.

CONSULTANT NAME/LOGO

SOUTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
PRESTRESSED CONCRETE CORED SLAB
40' SPAN
 27'-10" ROADWAY (-15° SKEW)

COUNTY: #####

ROUTE: #####

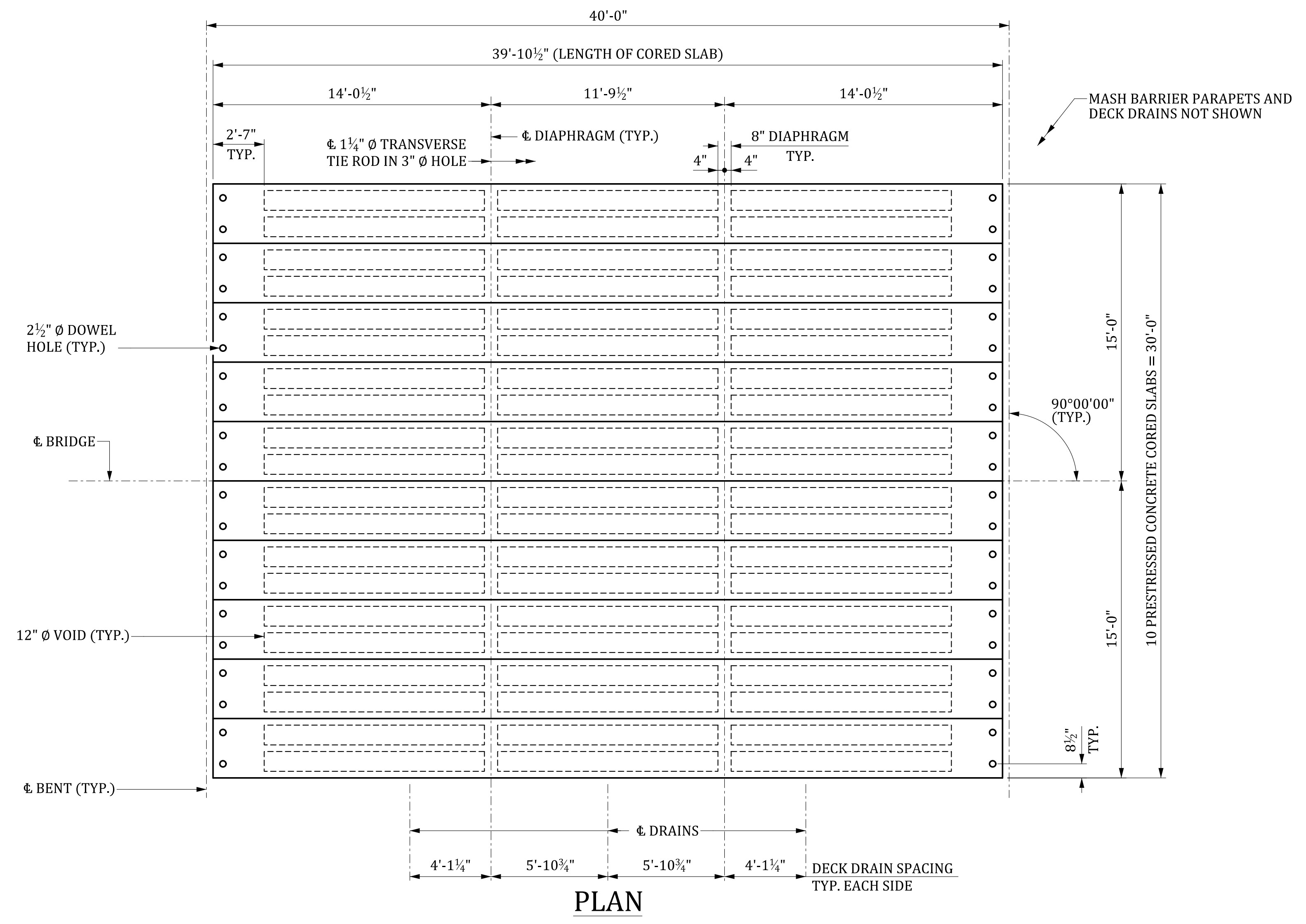
DRAWING NUMBER: 704-ACS.S040.R28.SK-15

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

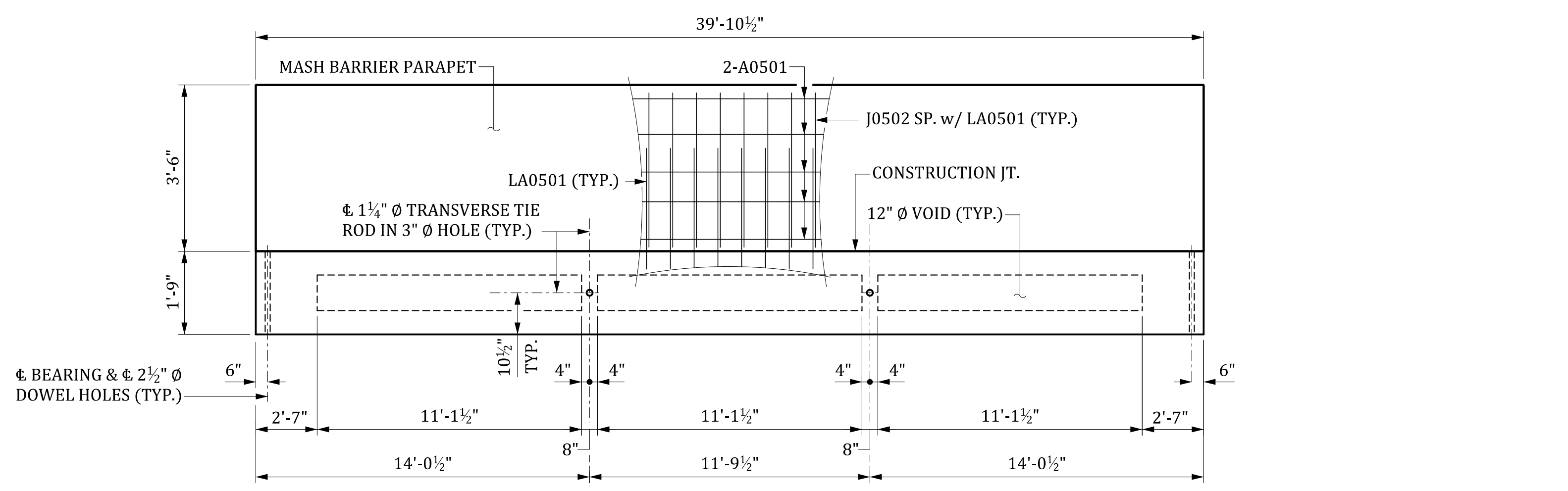
REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	OP	DPP	09-23
DES.	BY	CHK.	DATE

MBreeland 6/25/2024 5:21:27 PM 704_ACS_040.dgn

DEAD LOAD DEFLECTION & CAMBER	
CAMBER AT ERECTION (SLAB ALONE IN PLACE)	↑ 7/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE	↓ X"
FINAL CAMBER	↑ X"



PLAN



ELEVATION

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
 FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 40' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 40' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	20'-9"					20'-9"
J0401	8	1'-9 1/2"	1'-6"				4'-10"
J0402	100	2'-8"	1'-6"				5'-8"
J0403	4	1'-5 1/2"	2'-8"				6'-10"
J0501	8	2'-7"	6"				3'-7"
LA0501	① 56	5 1/2"					7'-7"

① LA0501 BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 40' BARRIER PARAPET					
MARK	NO. REQ'D	DIMENSION			LENGTH
		"a"	"b"	"c"	
A0501	10	39'-6"			39'-6"
A0502	6	5'-0"			5'-0"
J0502	56	5 1/2"	3'-3"		7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
REINFORCING STEEL	LB	508
CONCRETE, f'c 5,000	CY	5.7
0.6" Ø L.R. STRANDS	LF	479

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	80.0
REINFORCING STEEL	LB	852
MASH CONCRETE BARRIER PARAPET	LF	40.0

ESTIMATED QUANTITIES - ONE 40' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	160.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,704
3'-0" X 1'-9" CORED SLABS	LF	398.8
MASH CONCRETE BARRIER PARAPET	LF	80.0
ELASTOMERIC BEARING	EA	20
BRIDGE DECK WATERPROOFING	SY	123.7

NOTE:
 FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

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CONSULTANT NAME/LOGO

SOUTH CAROLINA
 DEPARTMENT OF TRANSPORTATION

PRESTRESSED CONCRETE CORED SLAB
40' SPAN
27'-10" ROADWAY (0° SKEW)

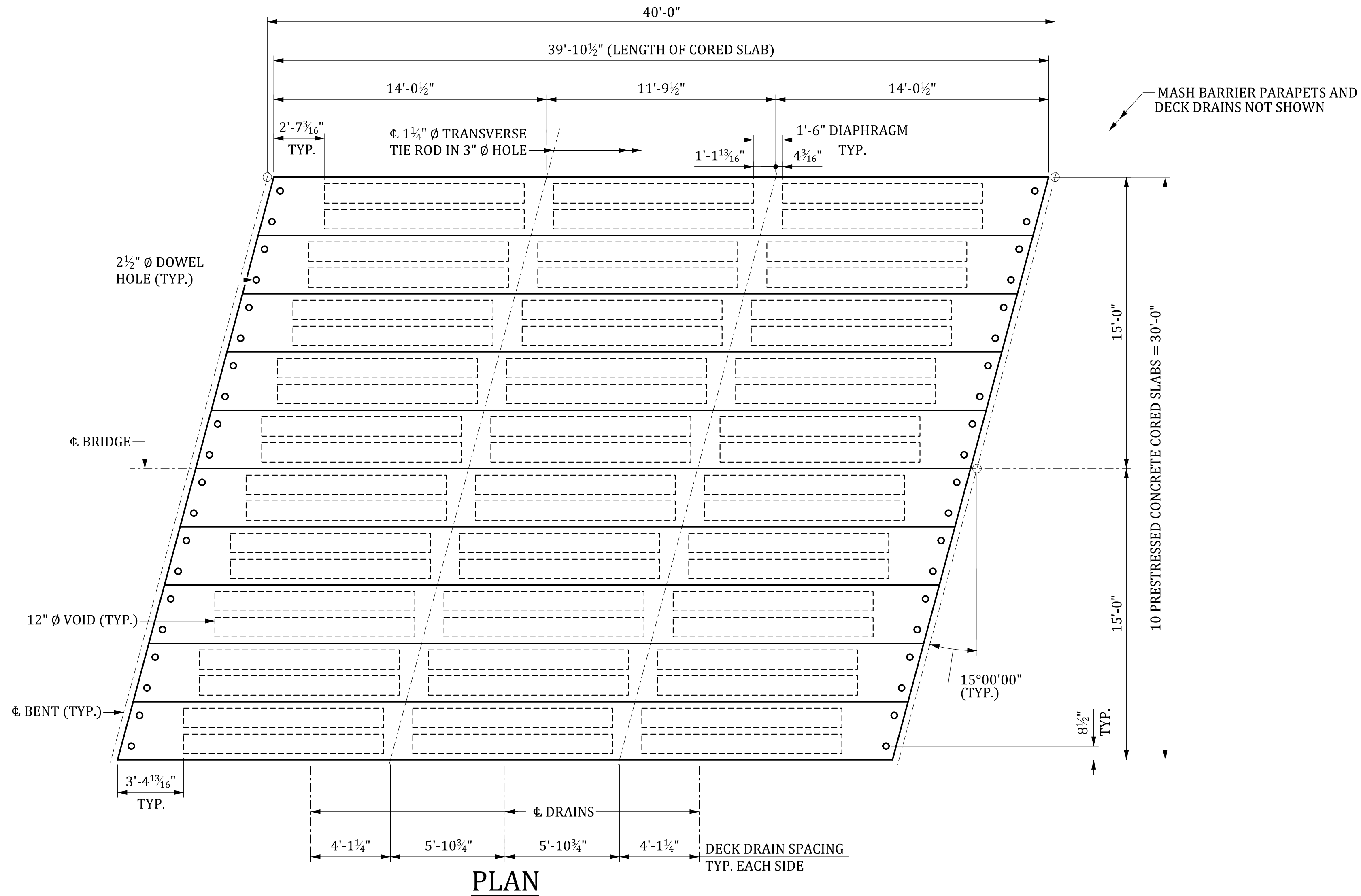
COUNTY: ##### ROUTE: #####

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

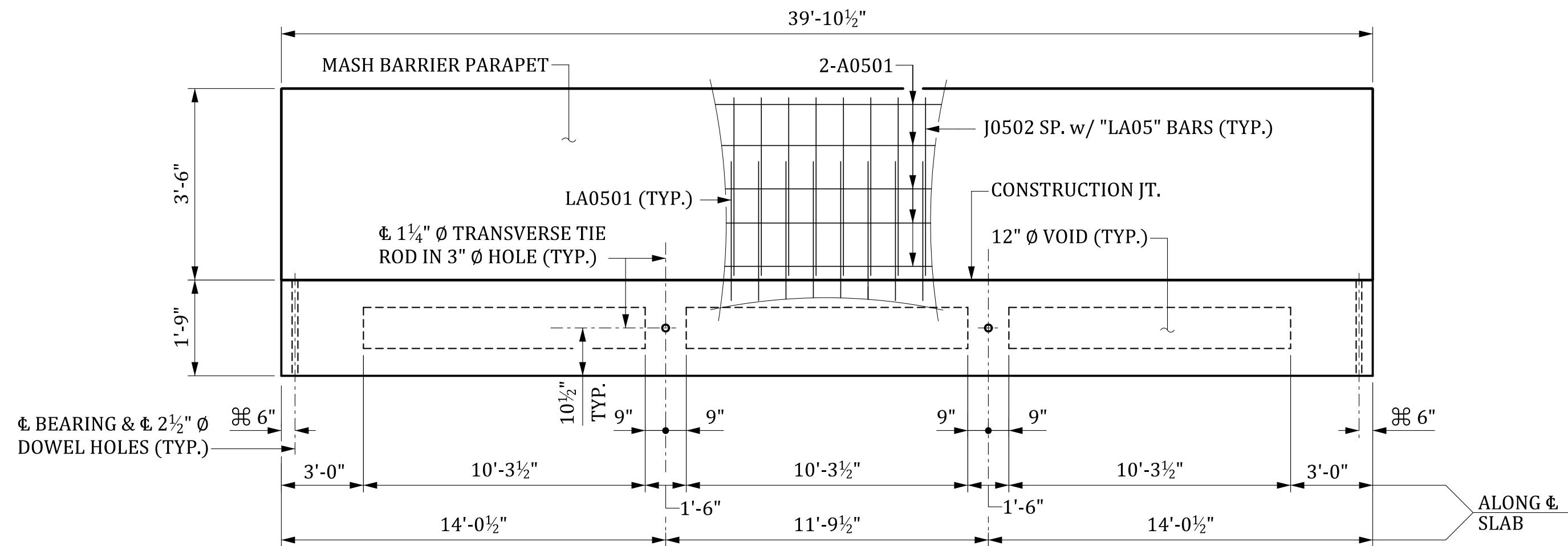
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REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	OP	DPP	09-23
DES.	BY	CHK.	DATE

DEAD LOAD DEFLECTION & CAMBER	
CAMBER AT ERECTION (SLAB ALONE IN PLACE)	↑ 7/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE	↓ X"
FINAL CAMBER	↑ X"



PLAN



ELEVATION

⊕ NORMAL TO END OF SLAB

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
 FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 40' SPAN DETAILS" SHEET.

NOTE:

FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

THIS DRAWING IS FURNISHED FOR INFORMATION ONLY. ALL DIMENSIONS SHOWN ARE SHEET SPECIFIC. ANY USE OF THIS DESIGN AND DRAWING, INCLUDING DIMENSIONS, MUST BE CHECKED BY THE USER'S ENGINEER TO ENSURE DESIGN IS ADEQUATE FOR THE INTENDED USE. ALL DRAWINGS MUST BE SIGNED AND SEALED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER WHEN USED.

BILL OF MATERIAL ONE 40' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	20'-9"	---	---	---	---	20'-9"
J0401	8	1'-10 1/2"	1'-6"	---	---	---	4'-11"
J0402	70	2'-8"	1'-6"	---	---	---	5'-8"
J0403	4	1'-5 1/2"	2'-8"	---	---	---	6'-10"
J0404	12	2'-8 1/2"	1'-6"	---	---	---	5'-9"
J0405	20	2'-9"	1'-6"	---	---	---	5'-9"
J0501	8	2'-7"	6"	---	---	---	3'-7"
LA0501	① 50	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	518	961
CONCRETE, Fc 5,000	CY	5.9	5.9
0.6" Ø L.R. STRANDS	LF	479	479

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 40' BARRIER PARAPET						
MARK	NO. REQ'D	DIMENSION				LENGTH
		"a"	"b"	"c"	"d"	
A0501	10	39'-6"	---	---	---	39'-6"
A0502	6	5'-0"	---	---	---	5'-0"
J0502	56	5 1/2"	3'-3"	---	---	7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	80.0
REINFORCING STEEL	LB	852
MASH CONCRETE BARRIER PARAPET	LF	40.0

ESTIMATED QUANTITIES - ONE 40' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	160.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,704
3'-0" X 1'-9" CORED SLABS	LF	398.8
MASH CONCRETE BARRIER PARAPET	LF	80.0
ELASTOMERIC BEARING	EA	20
BRIDGE DECK WATERPROOFING	SY	123.7

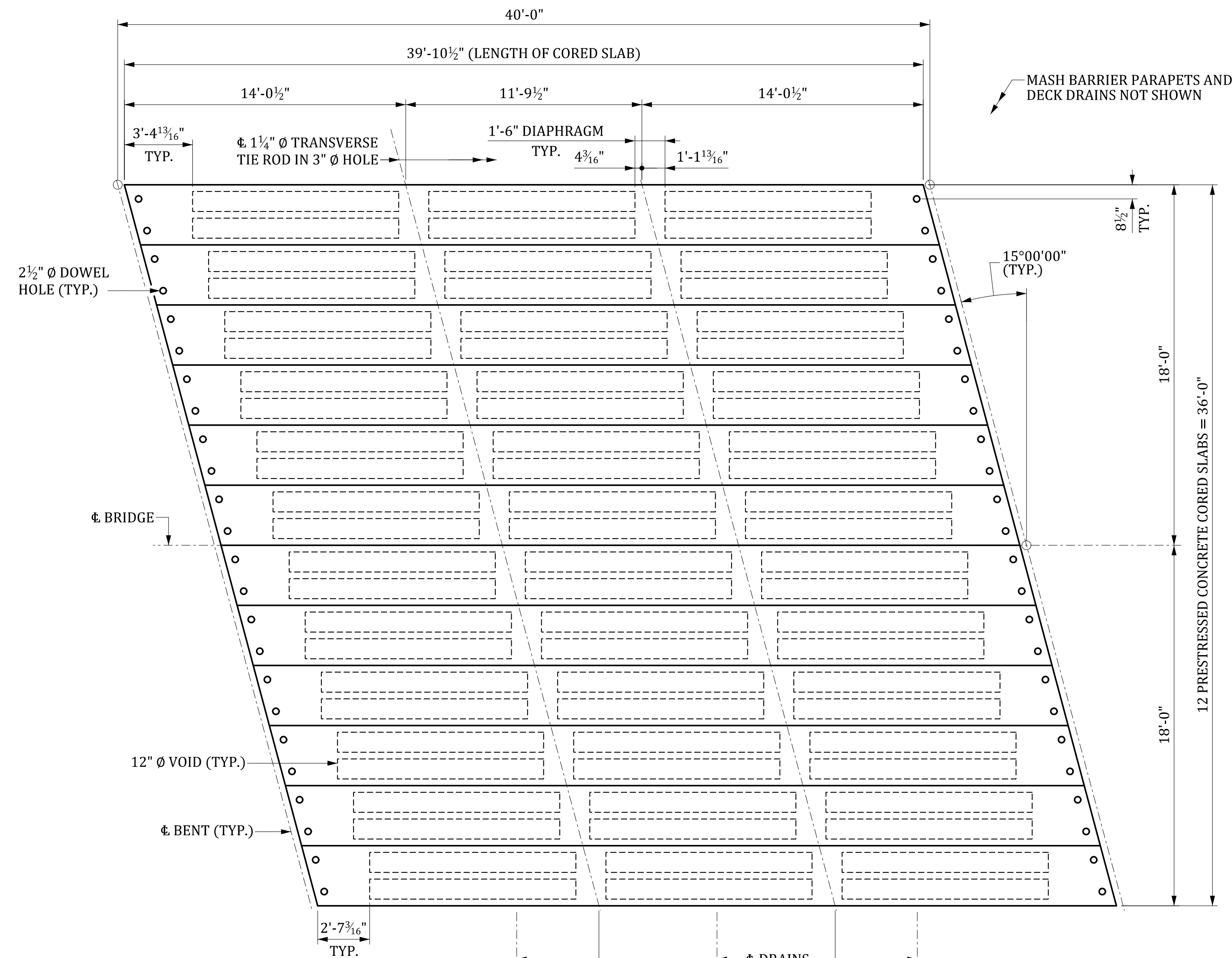
CONSULTANT NAME/LOGO	
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PRESTRESSED CONCRETE CORED SLAB 40' SPAN 27'-10" ROADWAY (+15° SKEW)	
COUNTY: #####	ROUTE: #####

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

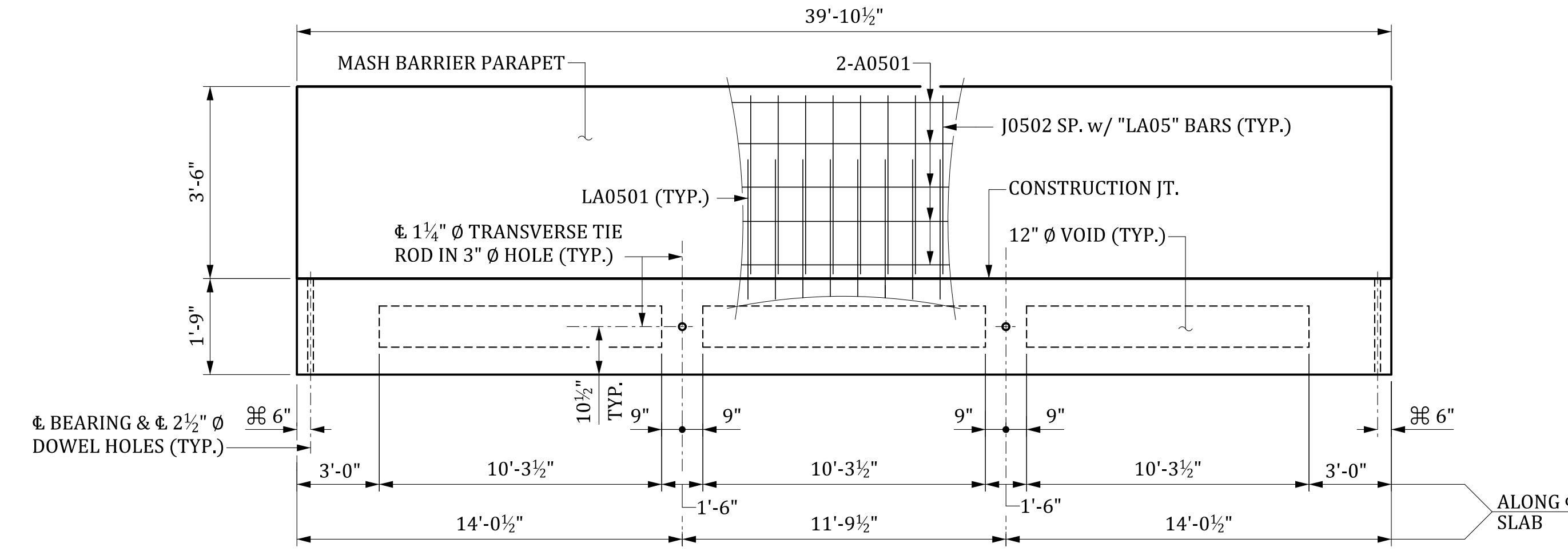
REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	OP	DP	09-23
DES.	BY	CHK.	DATE

MBreeland 6/25/2024 5:21:25 PM 704_ACS_040.dgn

DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 7/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"



PLAN



ELEVATION

⊗ NORMAL TO END OF SLAB
 DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
 FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 40' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 40' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	20'-9"	---	---	---	---	20'-9"
J0401	8	1'-10 1/2"	1'-6"	---	---	---	4'-11"
J0402	70	2'-8"	1'-6"	---	---	---	5'-8"
J0403	4	1'-5 1/2"	2'-8"	---	---	---	6'-10"
J0404	12	2'-8 1/2"	1'-6"	---	---	---	5'-9"
J0405	20	2'-9"	1'-6"	---	---	---	5'-9"
J0501	8	2'-7"	6"	---	---	---	3'-7"
LA0501	① 50	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	518	961
CONCRETE, Fc 5,000	CY	5.9	5.9
0.6" Ø L.R. STRANDS	LF	479	479

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 40' BARRIER PARAPET						
MARK	NO. REQ'D	DIMENSION				LENGTH
		"a"	"b"	"c"	"d"	
A0501	10	39'-6"	---	---	---	39'-6"
A0502	6	5'-0"	---	---	---	5'-0"
J0502	56	5 1/2"	3'-3"	---	---	7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	80.0
REINFORCING STEEL	LB	852
MASH CONCRETE BARRIER PARAPET	LF	40.0

ESTIMATED QUANTITIES - ONE 40' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	160.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,704
3'-0" X 1'-9" CORED SLABS	LF	478.5
MASH CONCRETE BARRIER PARAPET	LF	80.0
ELASTOMERIC BEARING	EA	24
BRIDGE DECK WATERPROOFING	SY	150.4

NOTE:
 FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

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CONSULTANT NAME/LOGO

SOUTH CAROLINA
 DEPARTMENT OF TRANSPORTATION

PRESTRESSED CONCRETE CORED SLAB
40' SPAN
33'-10" ROADWAY (-15° SKEW)

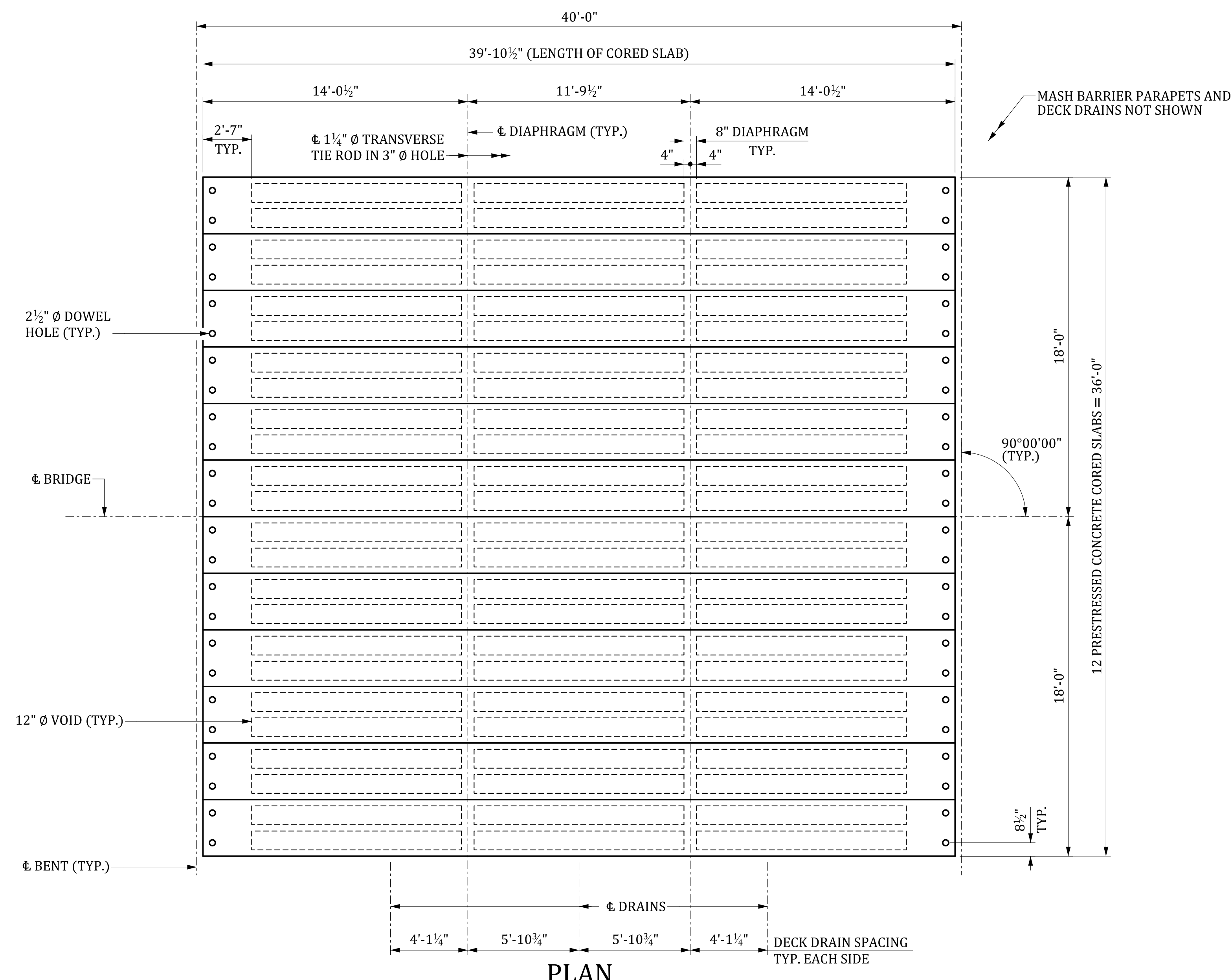
COUNTY: ##### ROUTE: #####

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

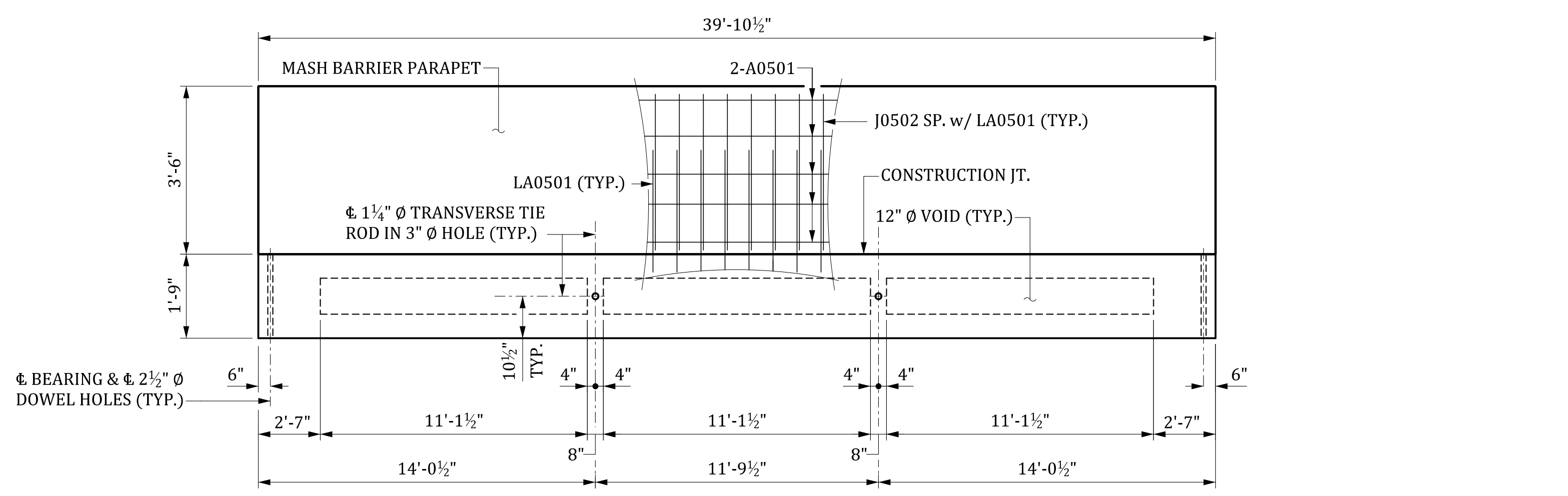
REVIEWED	QUAN.	CTM	GCM	05-23
DR.	CTM	MWB	05-23	
DES.	OP	DPP	09-23	
	BY	CHK.	DATE	

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DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 7/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"



PLAN



ELEVATION

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
 FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 40' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 40' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	20'-9"					20'-9"
J0401	8	1'-9 1/2"	1'-6"				4'-10"
J0402	100	2'-8"	1'-6"				5'-8"
J0403	4	1'-5 1/2"	2'-8"				6'-10"
J0501	8	2'-7"	6"				3'-7"
LA0501	① 56	5 1/2"					7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	508	951
CONCRETE, f'c 5,000	CY	5.7	5.7
0.6" Ø L.R. STRANDS	LF	479	479

① LA0501 BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 40' BARRIER PARAPET							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	10	39'-6"					39'-6"
A0502	6	5'-0"					5'-0"
J0502	56	5 1/2"	3'-3"				7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	80.0
REINFORCING STEEL	LB	852
MASH CONCRETE BARRIER PARAPET	LF	40.0

ESTIMATED QUANTITIES - ONE 40' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	160.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,704
3'-0" X 1'-9" CORED SLABS	LF	478.5
MASH CONCRETE BARRIER PARAPET	LF	80.0
ELASTOMERIC BEARING	EA	24
BRIDGE DECK WATERPROOFING	SY	150.4

NOTE:
 FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

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CONSULTANT NAME/LOGO

SOUTH CAROLINA
 DEPARTMENT OF TRANSPORTATION

PRESTRESSED CONCRETE CORED SLAB
40' SPAN
33'-10" ROADWAY (0° SKEW)

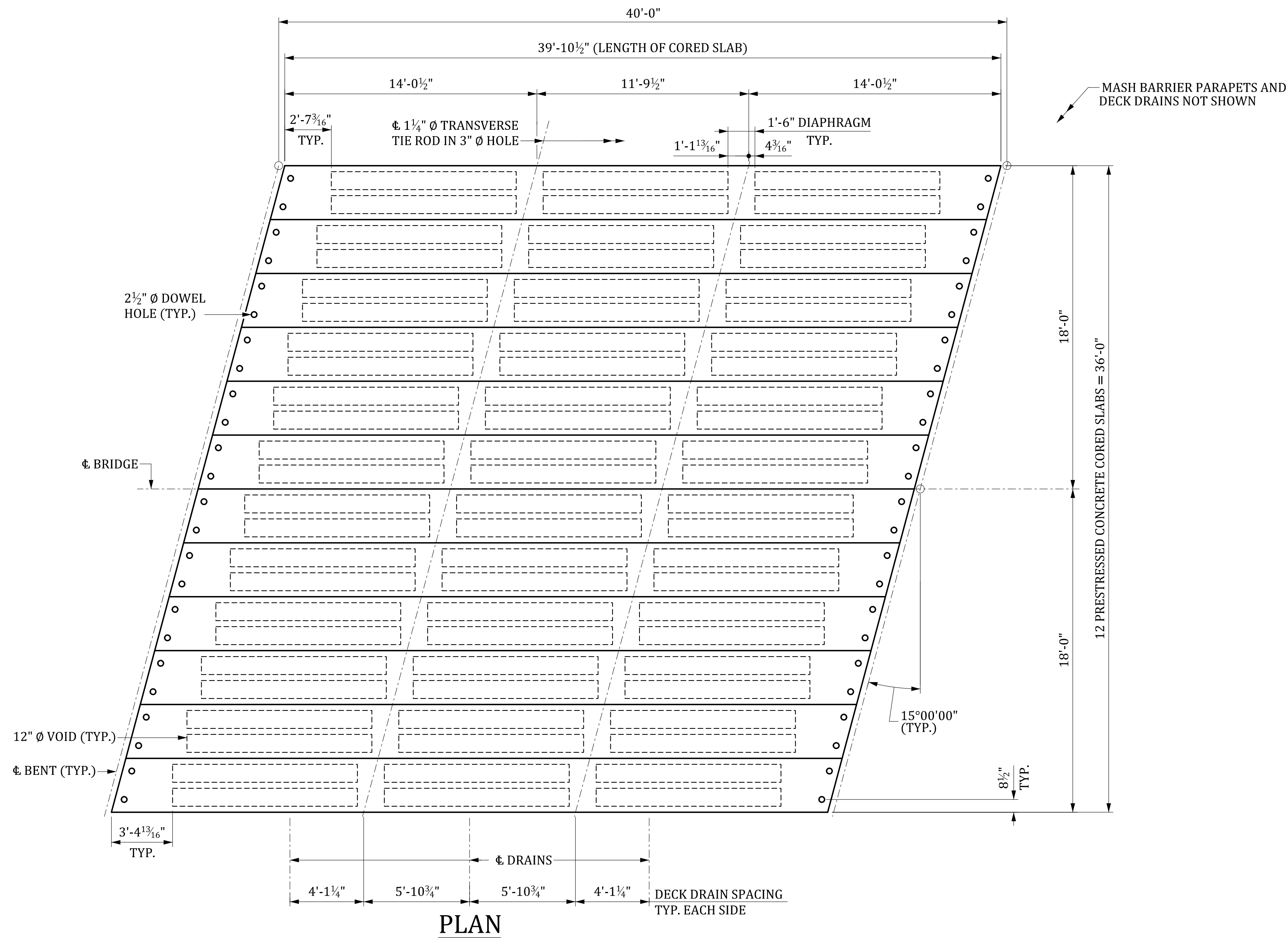
COUNTY: ##### ROUTE: #####

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

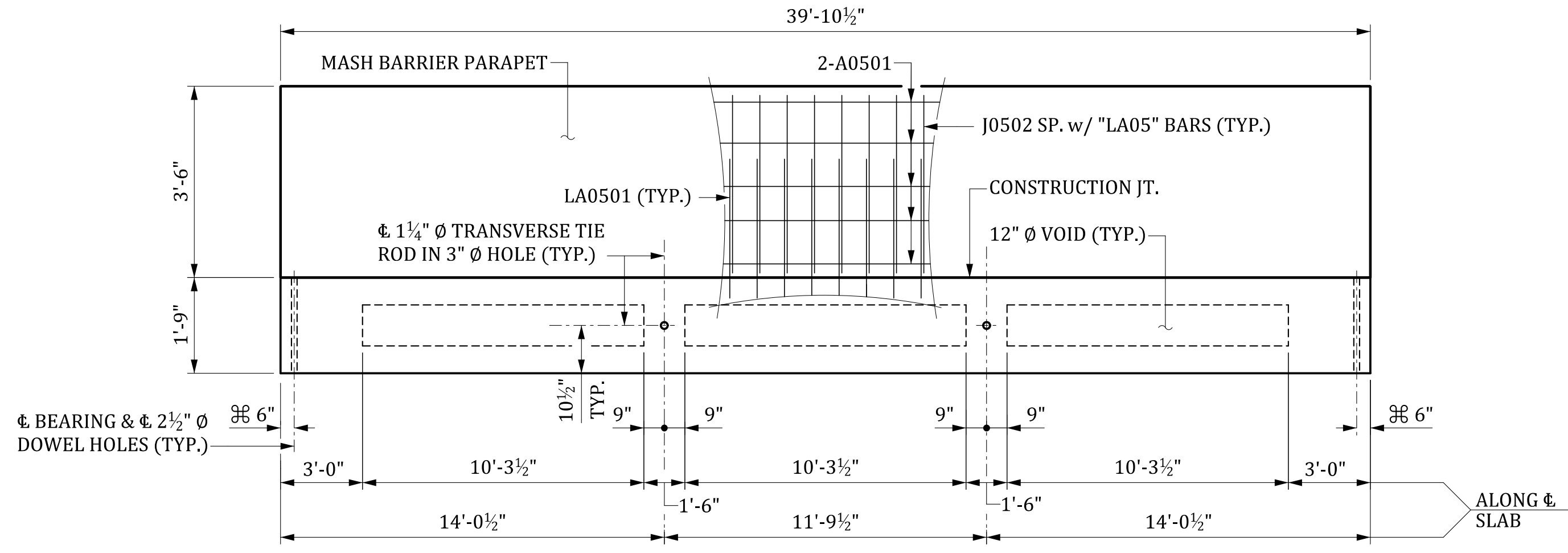
REVIEWED	QUAN.	CTM	GCM	05-23
DR.	DR.	CTM	MWB	05-23
DES.	DES.	OP	DPP	09-23
		BY	CHK.	DATE

MBreeland 6/25/2024 5:21:32 PM 704_ACS_040.dgn

DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 7/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"



PLAN



ELEVATION

⊘ NORMAL TO END OF SLAB
DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 40' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 40' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	20'-9"	---	---	---	---	20'-9"
J0401	8	1'-10 1/2"	1'-6"	---	---	---	4'-11"
J0402	70	2'-8"	1'-6"	---	---	---	5'-8"
J0403	4	1'-5 1/2"	2'-8"	---	---	---	6'-10"
J0404	12	2'-8 1/2"	1'-6"	---	---	---	5'-9"
J0405	20	2'-9"	1'-6"	---	---	---	5'-9"
J0501	8	2'-7"	6"	---	---	---	3'-7"
LA0501	① 50	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 40' BARRIER PARAPET						
MARK	NO. REQ'D	DIMENSION				LENGTH
		"a"	"b"	"c"	"d"	
A0501	10	39'-6"	---	---	---	39'-6"
A0502	6	5'-0"	---	---	---	5'-0"
J0502	56	5 1/2"	3'-3"	---	---	7'-0"

ESTIMATED QUANTITIES - ONE 40' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	160.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,704
3'-0" X 1'-9" CORED SLABS	LF	478.5
MASH CONCRETE BARRIER PARAPET	LF	80.0
ELASTOMERIC BEARING	EA	24
BRIDGE DECK WATERPROOFING	SY	150.4

NOTE:
FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

THIS DRAWING IS FURNISHED FOR INFORMATION ONLY. ALL DIMENSIONS SHOWN ARE SHEET SPECIFIC. ANY USE OF THIS DESIGN AND DRAWING, INCLUDING DIMENSIONS, MUST BE CHECKED BY THE USER'S ENGINEER TO ENSURE DESIGN IS ADEQUATE FOR THE INTENDED USE. ALL DRAWINGS MUST BE SIGNED AND SEALED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER WHEN USED.

CONSULTANT NAME/LOGO

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

PRESTRESSED CONCRETE CORED SLAB
40' SPAN
33'-10" ROADWAY (+15° SKEW)

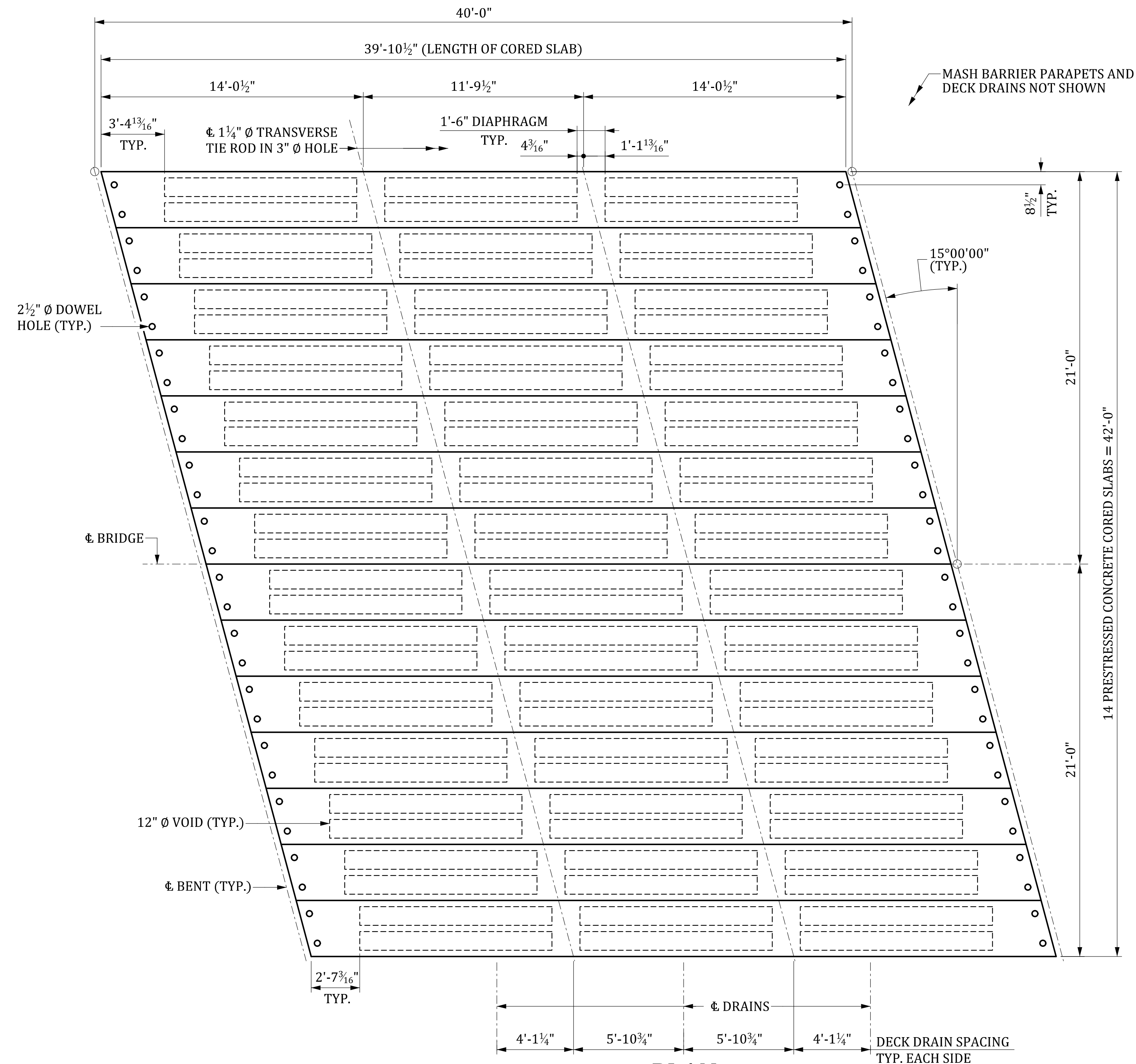
COUNTY: ###-### ROUTE: ###-###

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

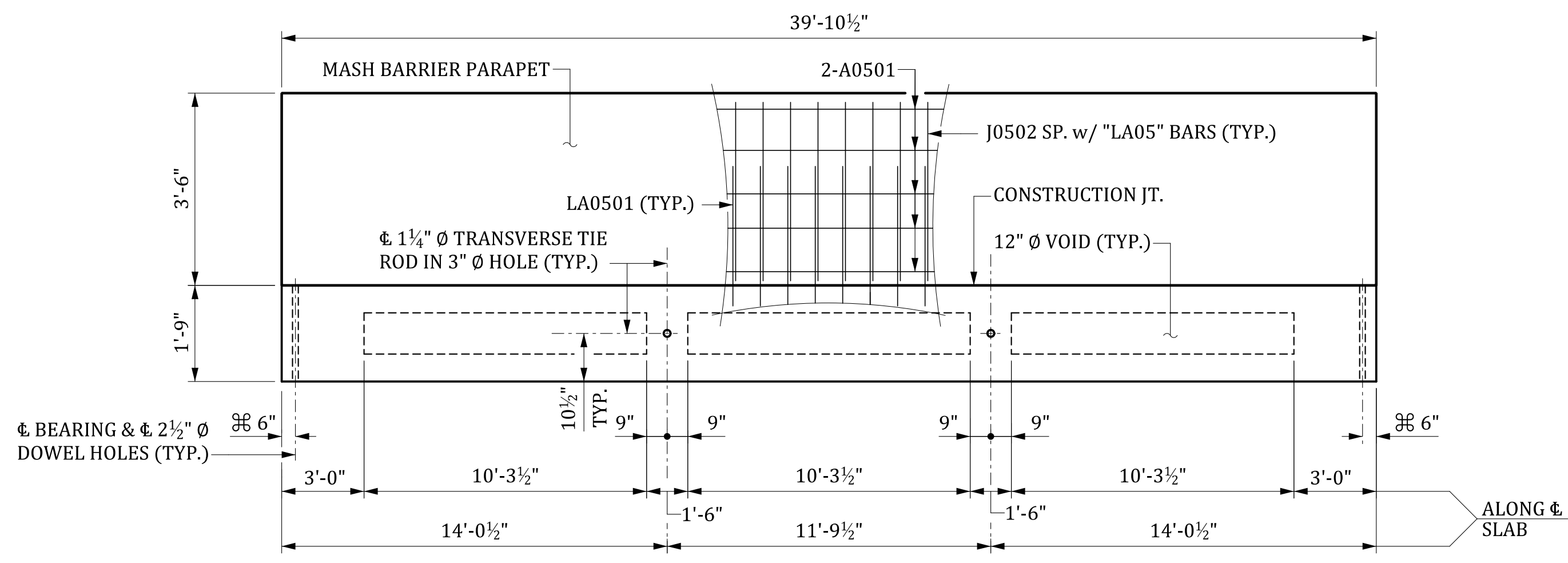
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REVIEWED	QUAN.	CTM	GCM	05-23

DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 7/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"



PLAN



ELEVATION

⊘ NORMAL TO END OF SLAB

NOTE:

FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

THIS DRAWING IS FURNISHED FOR INFORMATION ONLY. ALL DIMENSIONS SHOWN ARE SHEET SPECIFIC. ANY USE OF THIS DESIGN AND DRAWING, INCLUDING DIMENSIONS, MUST BE CHECKED BY THE USER'S ENGINEER TO ENSURE DESIGN IS ADEQUATE FOR THE INTENDED USE. ALL DRAWINGS MUST BE SIGNED AND SEALED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER WHEN USED.

BILL OF MATERIAL ONE 40' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	20'-9"	---	---	---	---	20'-9"
J0401	8	1'-10 1/2"	1'-6"	---	---	---	4'-11"
J0402	70	2'-8"	1'-6"	---	---	---	5'-8"
J0403	4	1'-5 1/2"	2'-8"	---	---	---	6'-10"
J0404	12	2'-8 1/2"	1'-6"	---	---	---	5'-9"
J0405	20	2'-9"	1'-6"	---	---	---	5'-9"
J0501	8	2'-7"	6"	---	---	---	3'-7"
LA0501	① 50	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	518	961
CONCRETE, Fc 5,000	CY	5.9	5.9
0.6" Ø L.R. STRANDS	LF	479	479

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 40' BARRIER PARAPET					
MARK	NO. REQ'D	DIMENSION			LENGTH
		"a"	"b"	"c"	
A0501	10	39'-6"	---	---	39'-6"
A0502	6	5'-0"	---	---	5'-0"
J0502	56	5 1/2"	3'-3"	---	7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	80.0
REINFORCING STEEL	LB	852
MASH CONCRETE BARRIER PARAPET	LF	40.0

ESTIMATED QUANTITIES - ONE 40' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	160.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,704
3'-0" X 1'-9" CORED SLABS	LF	558.3
MASH CONCRETE BARRIER PARAPET	LF	80.0
ELASTOMERIC BEARING	EA	28
BRIDGE DECK WATERPROOFING	SY	177.0

CONSULTANT NAME/LOGO

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

PRESTRESSED CONCRETE CORED SLAB
40' SPAN
39'-10" ROADWAY (-15° SKEW)

COUNTY: ##### ROUTE: #####

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	OP	DPP	09-23
DES.	BY	CHK.	DATE

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DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 7/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"

BILL OF MATERIAL ONE 40' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	20'-9"					20'-9"
J0401	8	1'-9 1/2"	1'-6"				4'-10"
J0402	100	2'-8"	1'-6"				5'-8"
J0403	4	1'-5 1/2"	2'-8"				6'-10"
J0501	8	2'-7"	6"				3'-7"
LA0501	① 56	5 1/2"					7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	508	951
CONCRETE, f'c 5,000	CY	5.7	5.7
0.6" Ø L.R. STRANDS	LF	479	479

① LA0501 BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 40' BARRIER PARAPET							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	10	39'-6"					39'-6"
A0502	6	5'-0"					5'-0"
J0502	56	5 1/2"	3'-3"				7'-0"

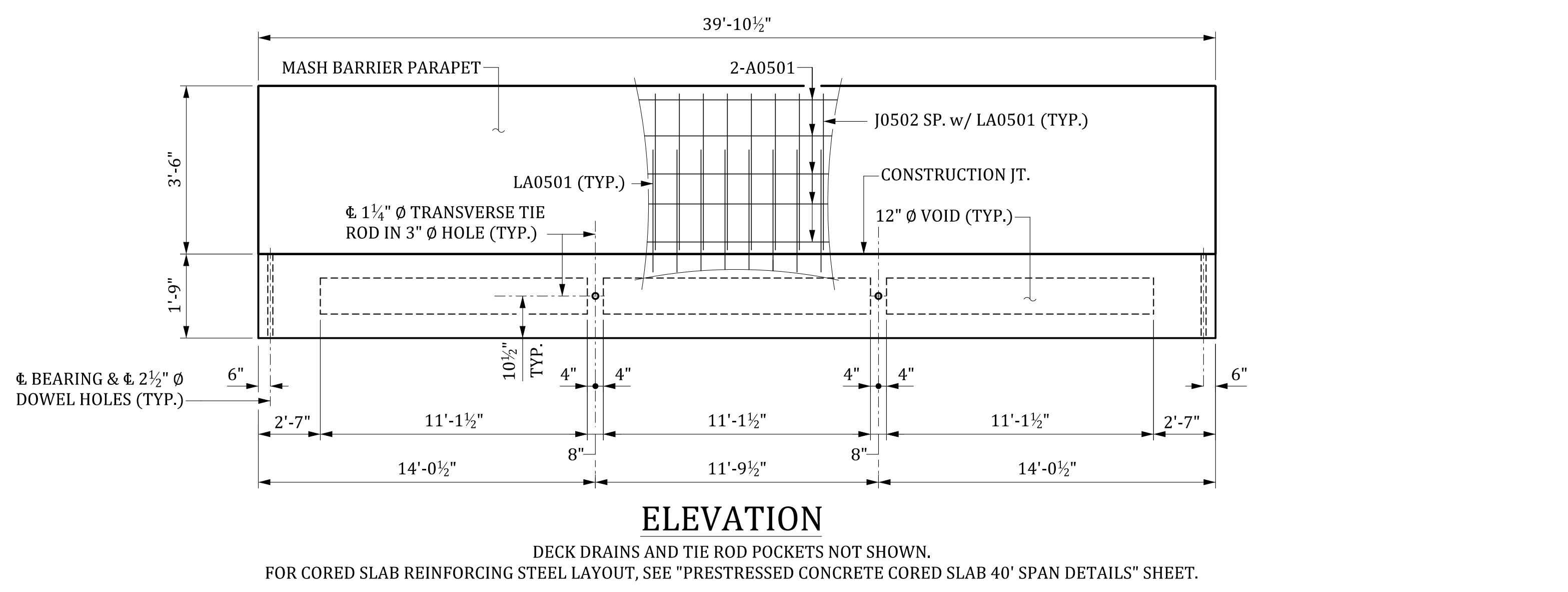
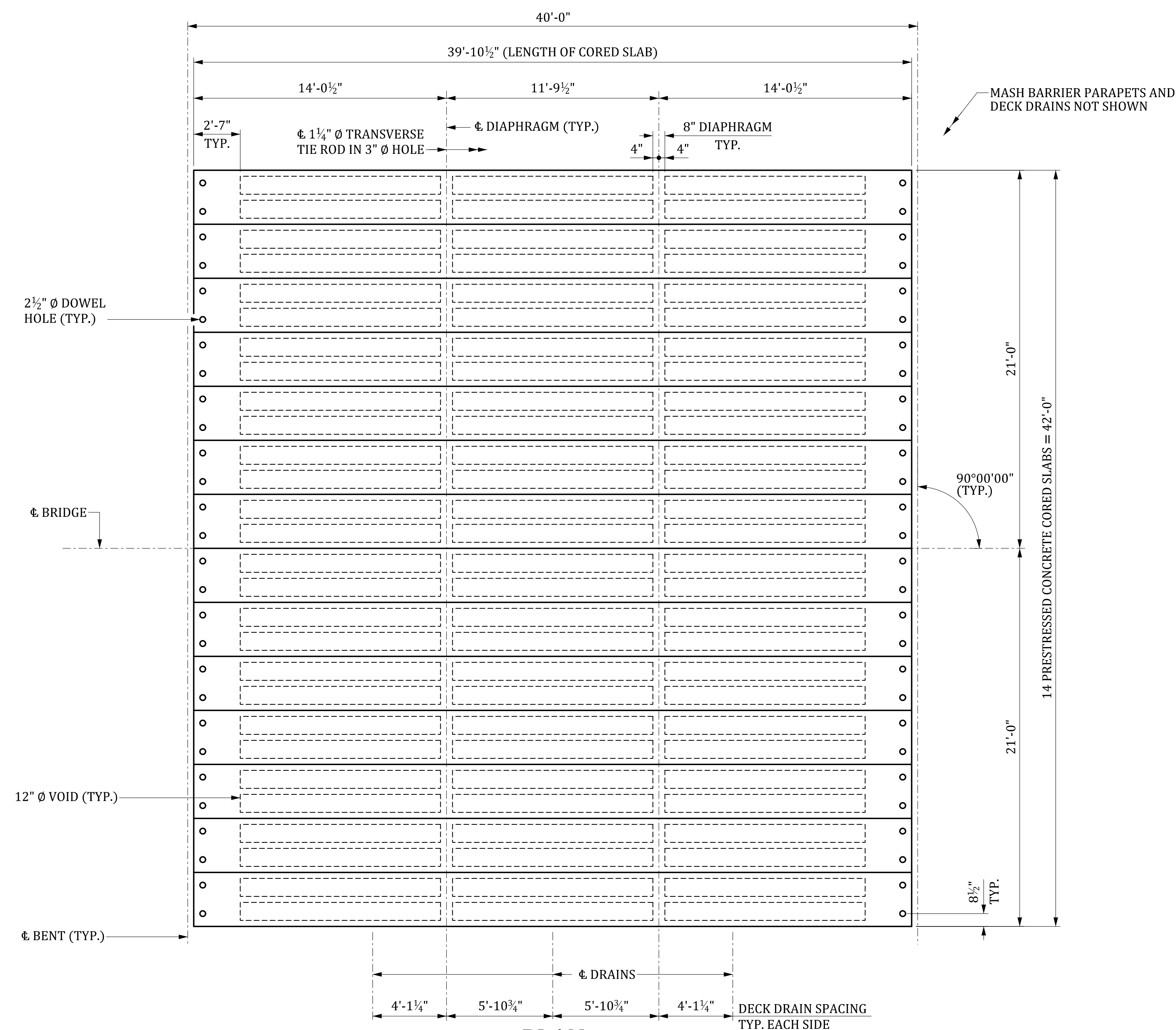
QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	80.0
REINFORCING STEEL	LB	852
MASH CONCRETE BARRIER PARAPET	LF	40.0

ESTIMATED QUANTITIES - ONE 40' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	160.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,704
3'-0" X 1'-9" CORED SLABS	LF	558.3
MASH CONCRETE BARRIER PARAPET	LF	80.0
ELASTOMERIC BEARING	EA	28
BRIDGE DECK WATERPROOFING	SY	177.0

MBreeland 6/25/2024 5:21:36 PM 704_ACS_040.dgn

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

REVIEWED	QUAN.	CTM	GCM	DATE



DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
 FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 40' SPAN DETAILS" SHEET.

NOTE:
 FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

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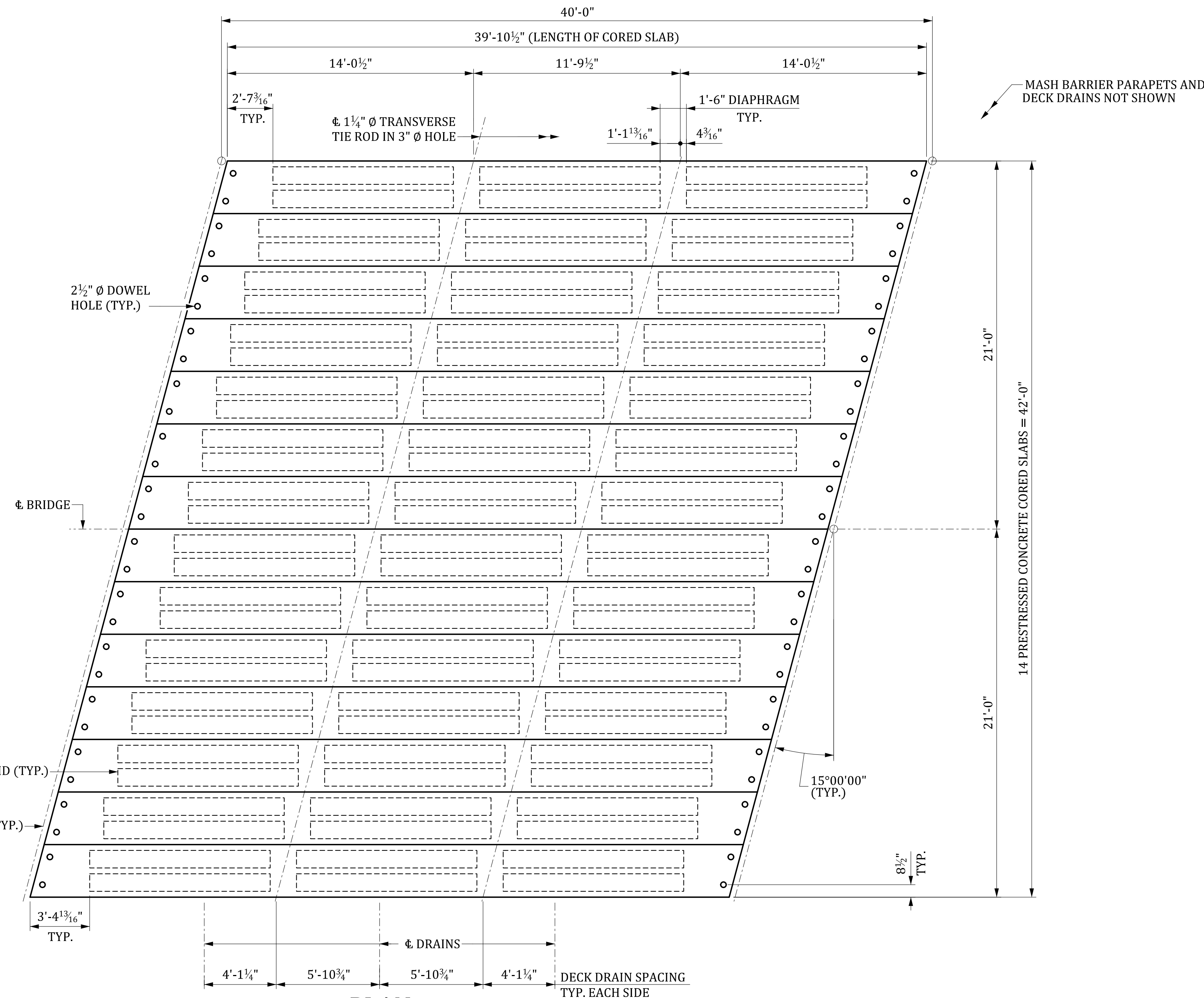
CONSULTANT NAME/LOGO

SOUTH CAROLINA
 DEPARTMENT OF TRANSPORTATION

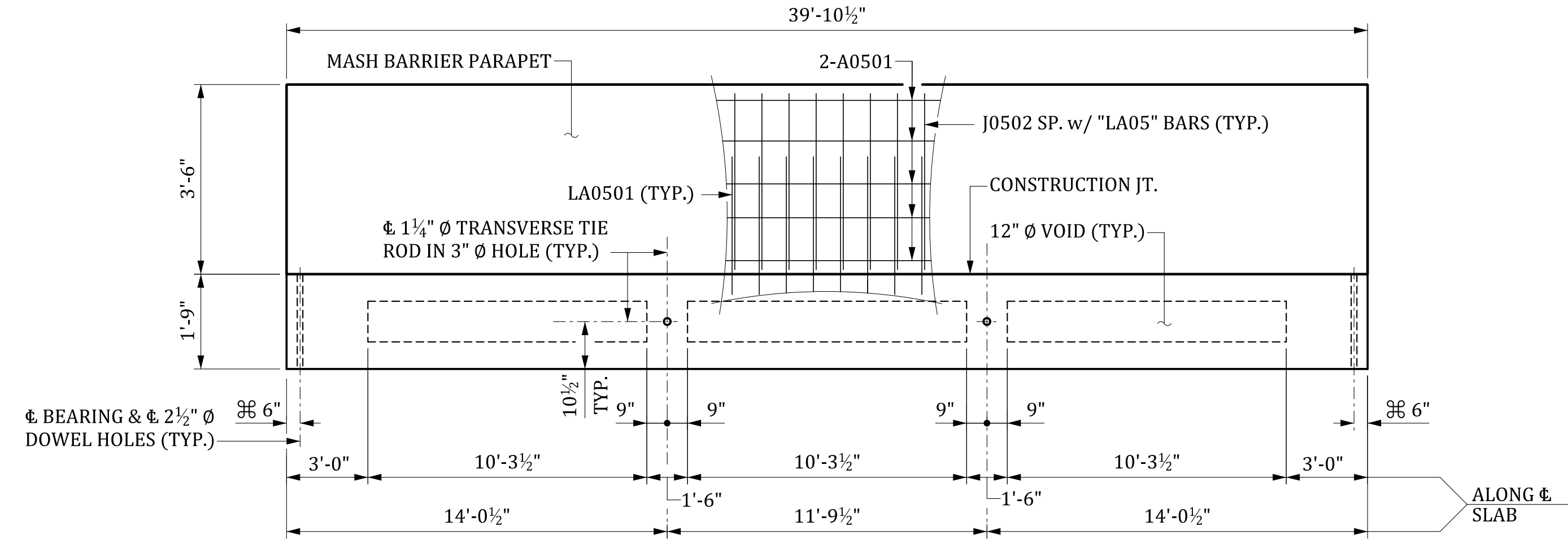
PRESTRESSED CONCRETE CORED SLAB
 40' SPAN
 39'-10" ROADWAY (0° SKEW)

COUNTY: ##### ROUTE: #####

DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 7/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"



PLAN



ELEVATION

⊕ NORMAL TO END OF SLAB

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
 FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 40' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 40' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	20'-9"	---	---	---	---	20'-9"
J0401	8	1'-10 1/2"	1'-6"	---	---	---	4'-11"
J0402	70	2'-8"	1'-6"	---	---	---	5'-8"
J0403	4	1'-5 1/2"	2'-8"	---	---	---	6'-10"
J0404	12	2'-8 1/2"	1'-6"	---	---	---	5'-9"
J0405	20	2'-9"	1'-6"	---	---	---	5'-9"
J0501	8	2'-7"	6"	---	---	---	3'-7"
LA0501	① 50	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	518	961
CONCRETE, Fc 5,000	CY	5.9	5.9
0.6" Ø L.R. STRANDS	LF	479	479

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 40' BARRIER PARAPET						
MARK	NO. REQ'D	DIMENSION				LENGTH
		"a"	"b"	"c"	"d"	
A0501	10	39'-6"	---	---	---	39'-6"
A0502	6	5'-0"	---	---	---	5'-0"
J0502	56	5 1/2"	3'-3"	---	---	7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	80.0
REINFORCING STEEL	LB	852
MASH CONCRETE BARRIER PARAPET	LF	40.0

ESTIMATED QUANTITIES - ONE 40' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	160.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,704
3'-0" X 1'-9" CORED SLABS	LF	558.3
MASH CONCRETE BARRIER PARAPET	LF	80.0
ELASTOMERIC BEARING	EA	28
BRIDGE DECK WATERPROOFING	SY	177.0

NOTE:
 FOR ADDITIONAL DETAILS, SEE PRESTRESSED CONCRETE CORED SLAB DETAILS SHEETS.

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CONSULTANT NAME/LOGO

SOUTH CAROLINA
 DEPARTMENT OF TRANSPORTATION

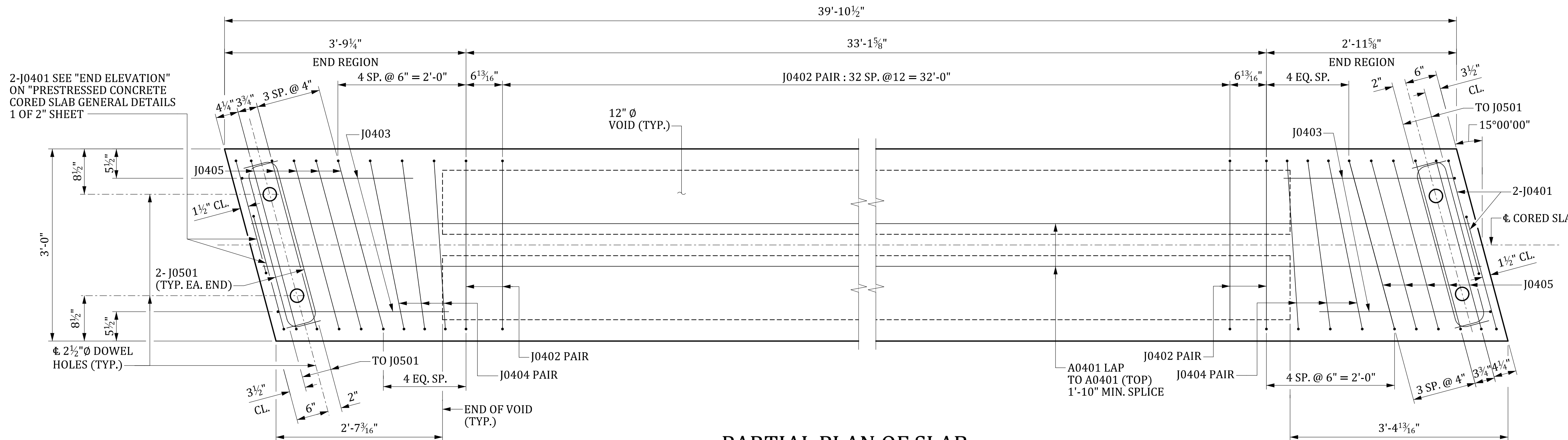
**PRESTRESSED CONCRETE CORED SLAB
 40' SPAN
 39'-10" ROADWAY (+15° SKEW)**

COUNTY: ##### ROUTE: #####

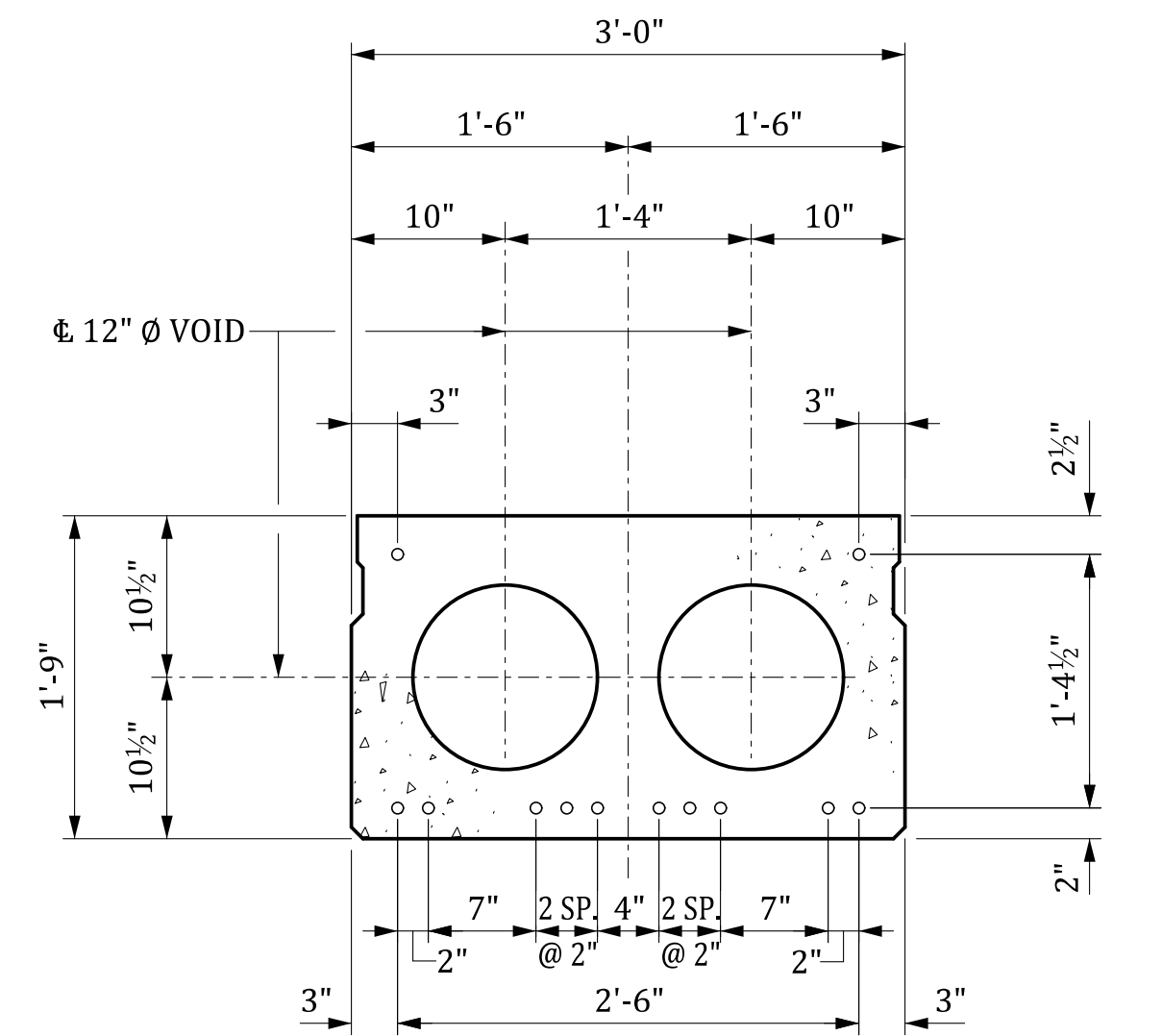
REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

REVIEWED	QUAN.	CTM	GCM	05-23

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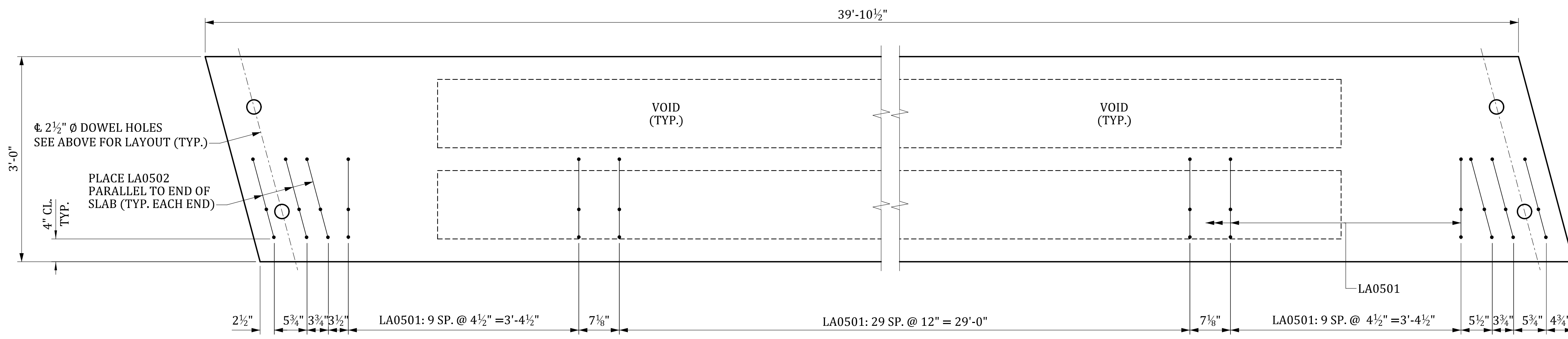


PARTIAL PLAN OF SLAB
STRANDS NOT SHOWN.
INTERIOR SLAB SHOWN, EXTERIOR SLAB SIMILAR EXCEPT BARRIER REINFORCEMENT, SEE BELOW.

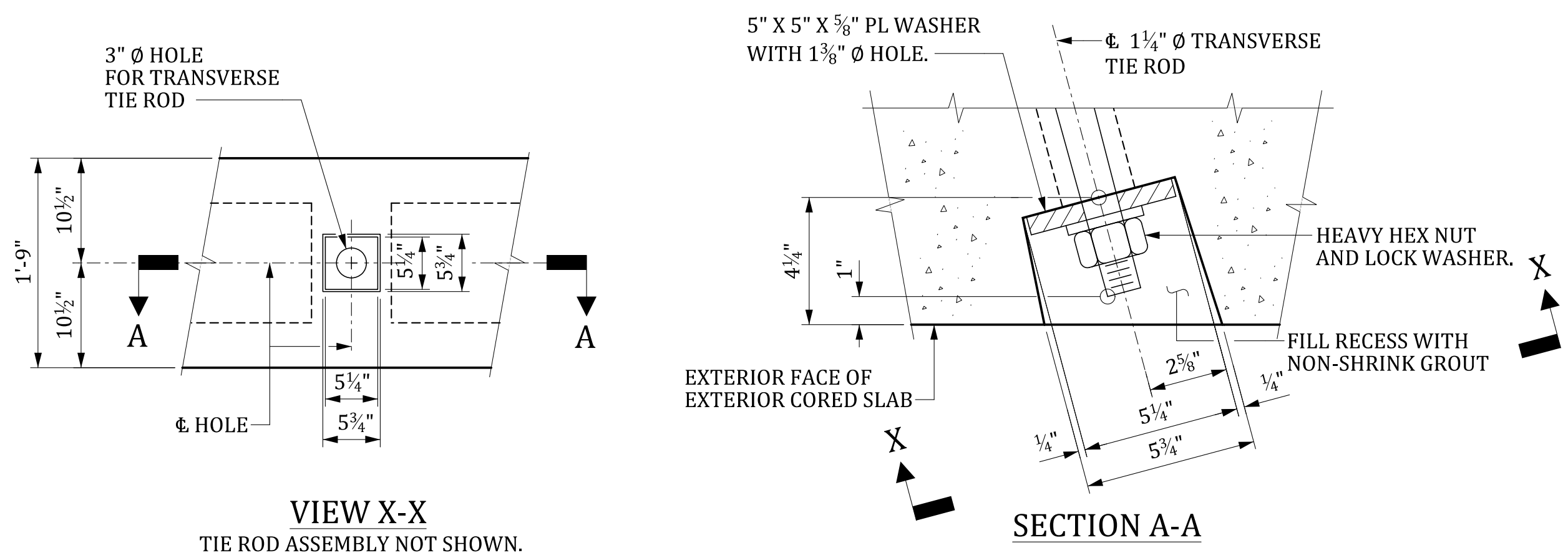


STRAND LAYOUT
12 - 0.6" Ø L.R. STRANDS
INTERIOR SLAB SHOWN - EXTERIOR SLAB
SIMILAR EXCEPT SHEAR KEY LOCATION.
○ FULLY BONDED STRANDS

DESIGN DATA	
STRANDS:	0.6" Ø LOW RELAXATION GRADE 270 AREA=0.217 SQ. IN. TENSIONING LOAD = 43.9 KIPS
CONCRETE:	f'c = 5.0 KSI f'ci = 4.0 KSI



PARTIAL PLAN OF EXTERIOR SLAB
SHOWING PLACEMENT OF LA0501 AND LA0502 BARS FOR MASH BARRIER PARAPET.
"LA05" BARS MAY BE SHIFTED SLIGHTLY TO AVOID STIRRUPS.



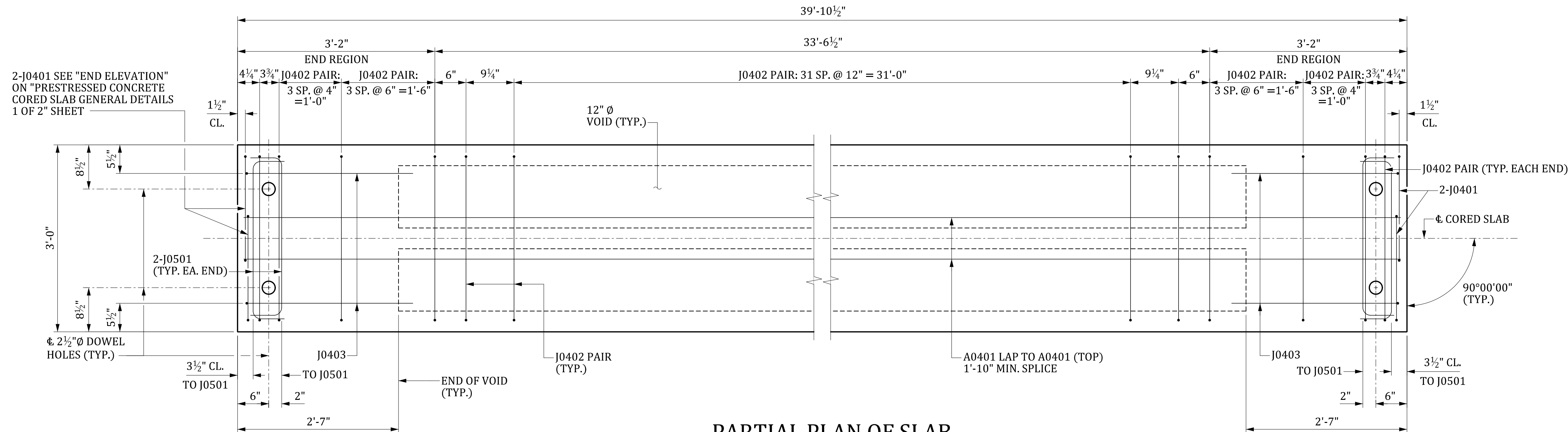
TIE ROD POCKET DETAIL
EXTERIOR FACE OF EXTERIOR SLAB.

NOTE:
FOR DIAPHRAGM DIMENSIONS AND LAYOUT, SEE
"PRESTRESSED CONCRETE CORED SLAB 40' SPAN-PLAN" SHEET.
STIRRUPS AND VERTICAL BARRIER REINFORCEMENT
MAY BE SHIFTED SLIGHTLY TO CLEAR HOLES FOR TIE RODS.

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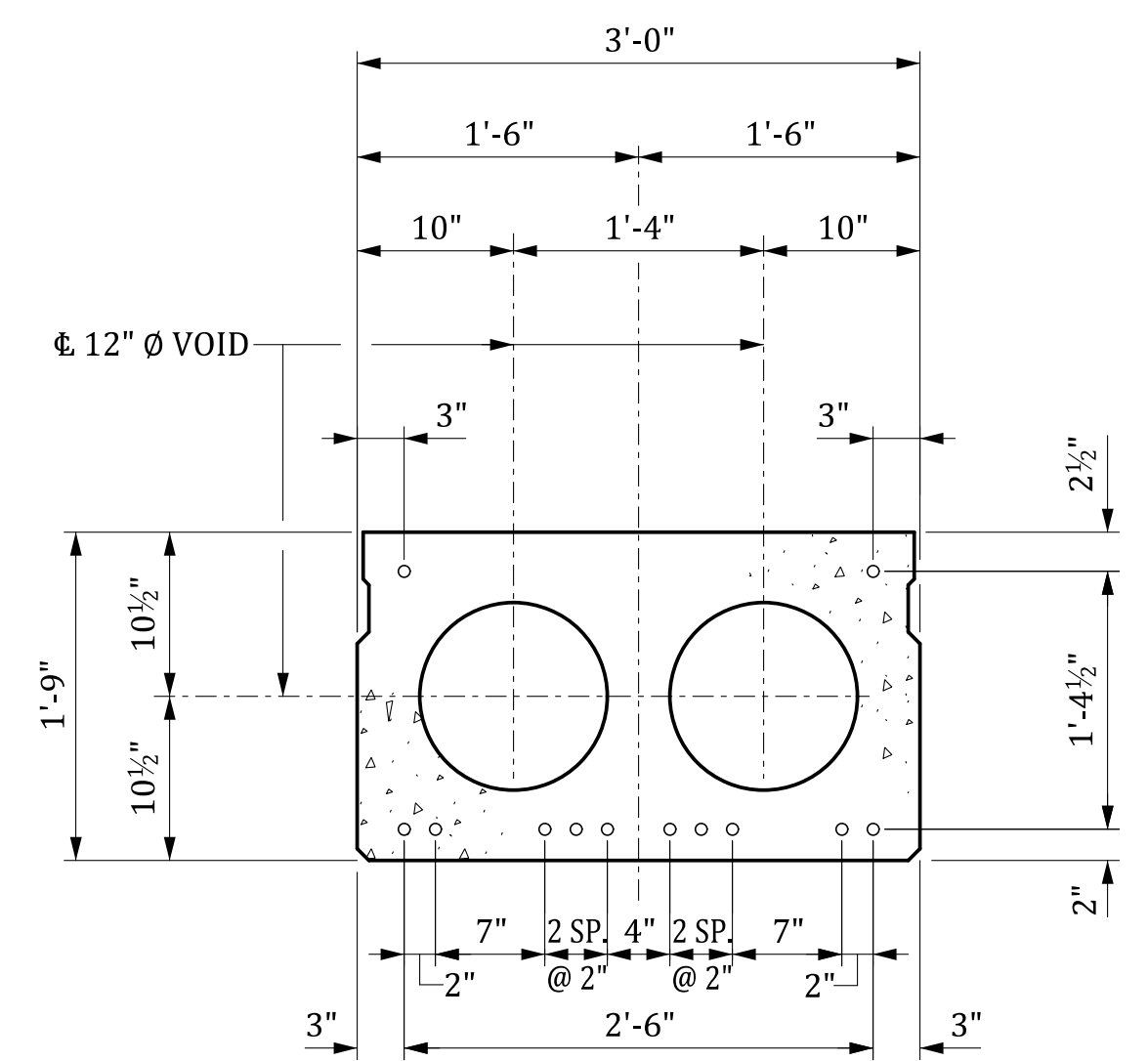
CONSULTANT NAME/LOGO	
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PRESTRESSED CONCRETE CORED SLAB 40' SPAN DETAILS (-15° SKEW)	
COUNTY: ####	ROUTE: ####

MBreeland 6/25/2024 5:21:40 PM 704_ACS_040.dgn	REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION
REVIEWED	QUAN.	CTM	GCM	05-23	
DR.	CTM	MWB	05-23		
DES.	OP	DPP	09-23		
	BY	CHK.	DATE		



PARTIAL PLAN OF SLAB

STRANDS NOT SHOWN.
INTERIOR SLAB SHOWN, EXTERIOR SLAB SIMILAR EXCEPT BARRIER REINFORCEMENT. SEE BELOW.

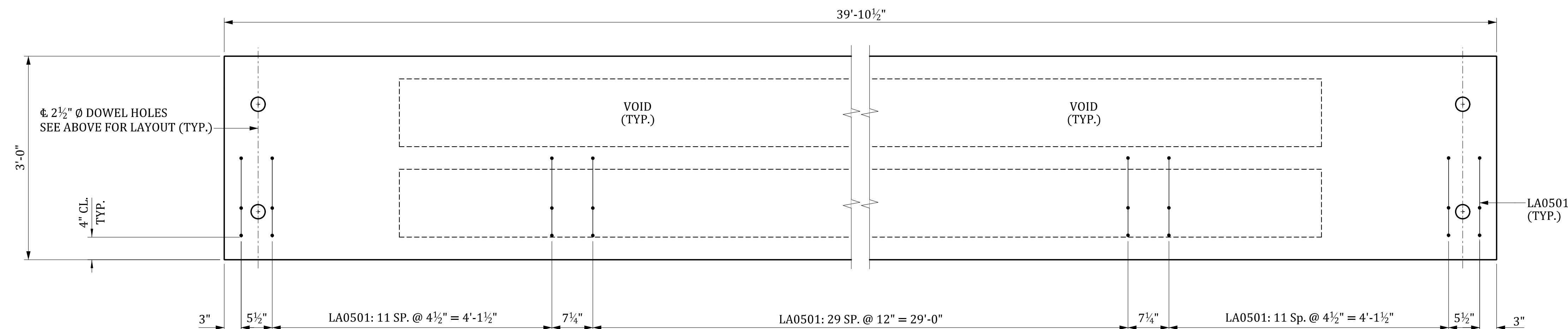


STRAND LAYOUT

12 - 0.6" Ø L.R. STRANDS
INTERIOR SLAB SHOWN - EXTERIOR SLAB SIMILAR EXCEPT SHEAR KEY LOCATION.
○ FULLY BONDED STRANDS

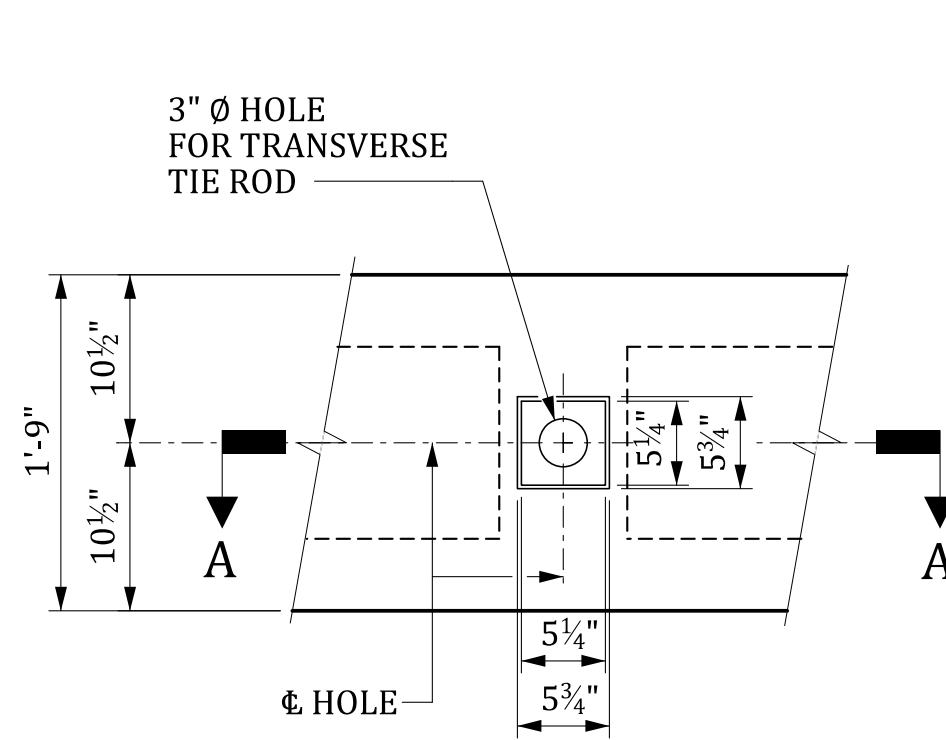
DESIGN DATA

STRANDS:
0.6" Ø LOW RELAXATION GRADE 270
AREA=0.217 SQ. IN.
TENSIONING LOAD = 43.9 KIPS
CONCRETE:
f'c = 5.0 KSI
f'ci = 4.0 KSI



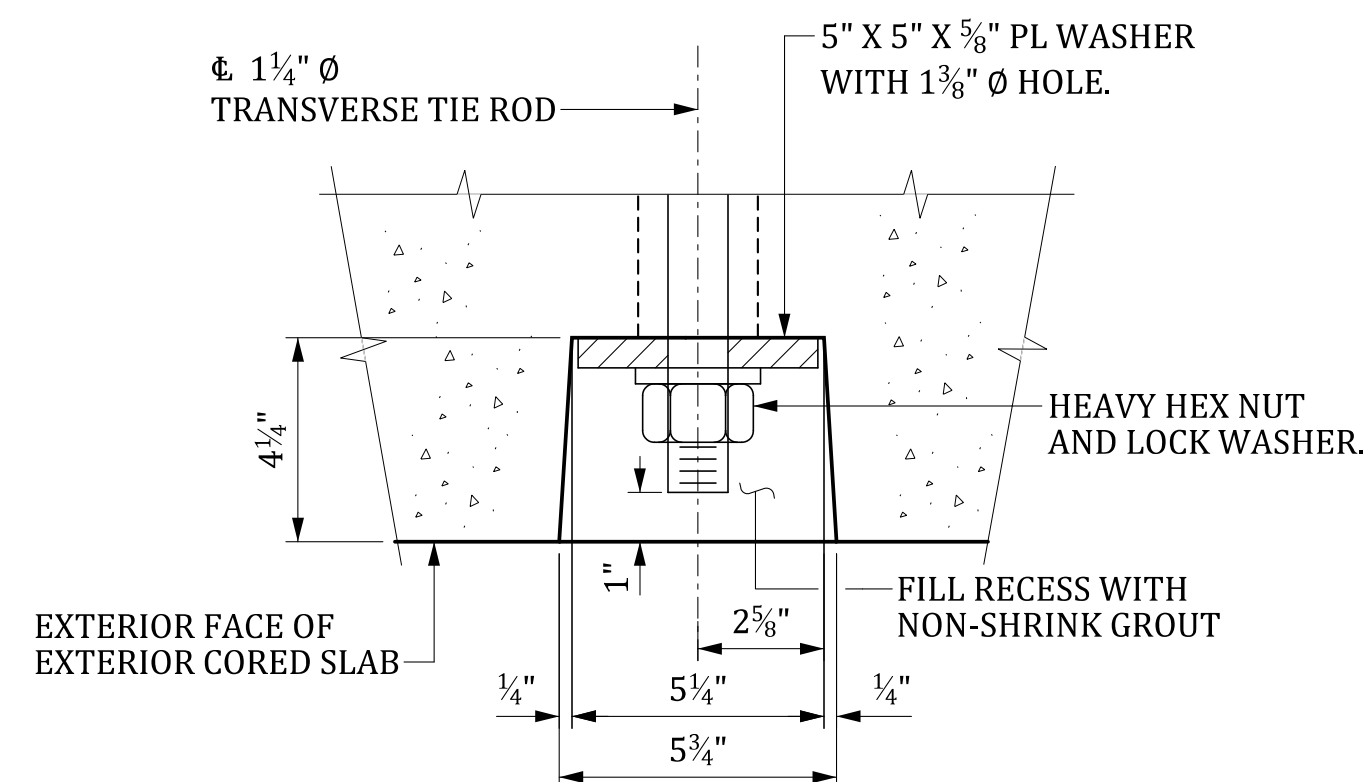
PARTIAL PLAN OF EXTERIOR SLAB

SHOWING PLACEMENT OF LA0501 BARS FOR MASH BARRIER PARAPET.
LA0501 BARS MAY BE SHIFTED SLIGHTLY TO AVOID STIRRUPS.



ELEVATION

TIE ROD ASSEMBLY NOT SHOWN.



SECTION A-A

TIE ROD POCKET DETAIL

EXTERIOR FACE OF EXTERIOR SLAB.

NOTE:
FOR DIAPHRAGM DIMENSIONS AND LAYOUT, SEE
"PRESTRESSED CONCRETE CORED SLAB 40' SPAN-PLAN" SHEET.

STIRRUPS AND VERTICAL BARRIER REINFORCEMENT
MAY BE SHIFTED SLIGHTLY TO CLEAR HOLES FOR TIE RODS.

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CONSULTANT NAME/LOGO

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

**PRESTRESSED CONCRETE CORED SLAB
40' SPAN DETAILS
(0° SKEW)**

COUNTY: ###

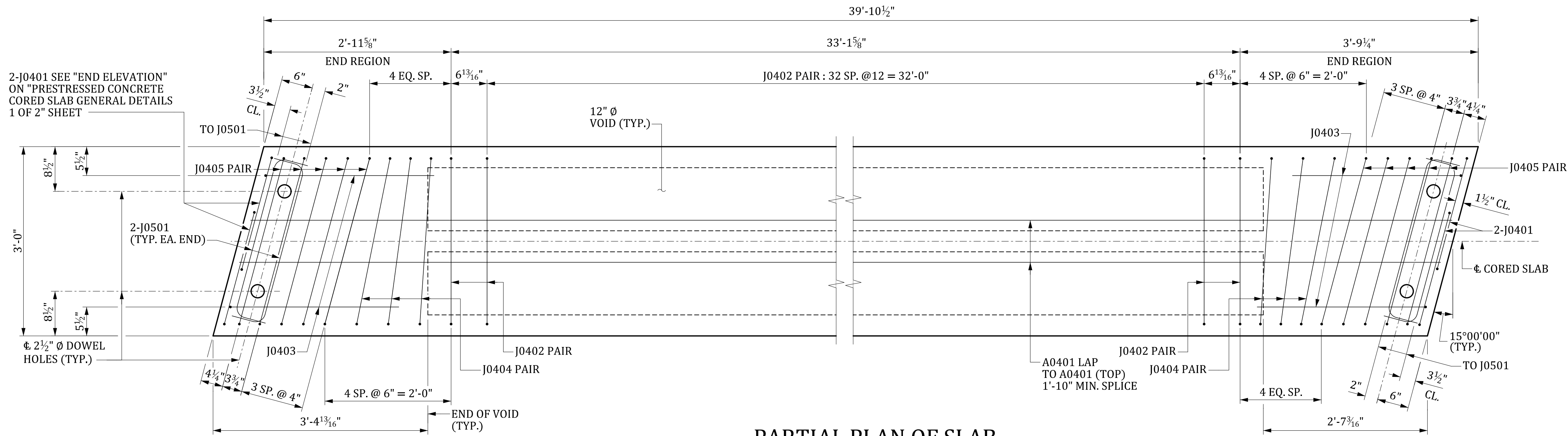
ROUTE: ###

DRAWING NUMBER: 704-ACS.S040.SK000.D01

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

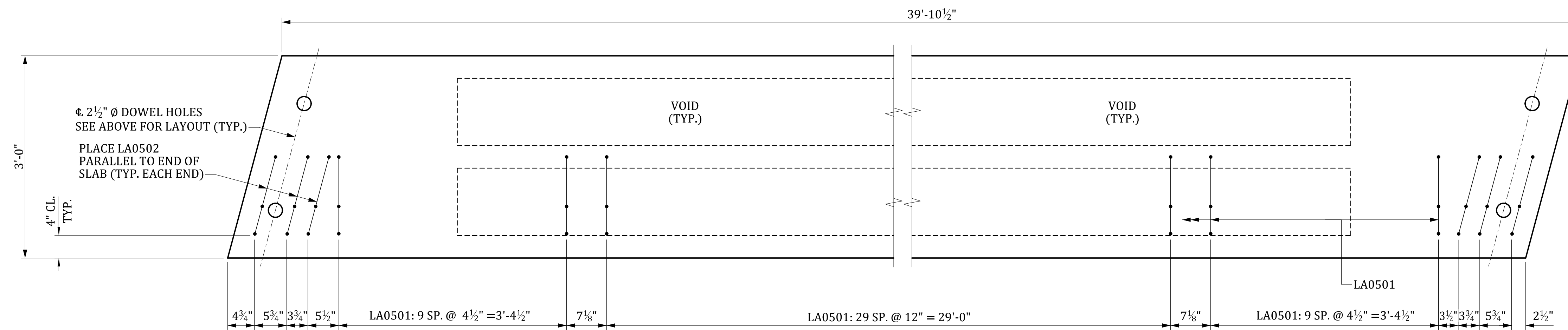
REVIEWED	QUAN.	CTM	GCM	05-23
DR.	CTM	MWB	05-23	
DES.	OP	DPP	09-23	
	BY	CHK.	DATE	

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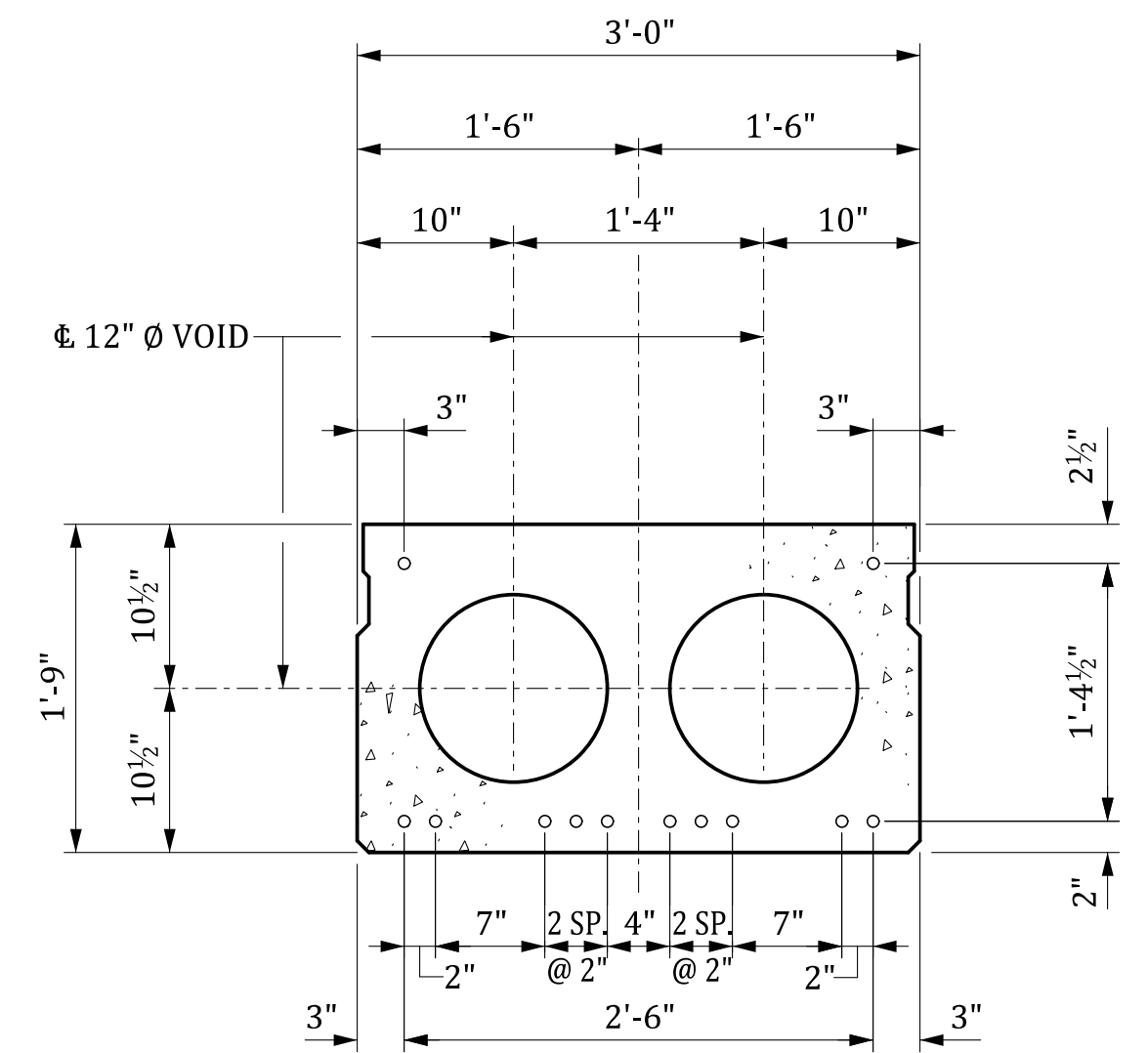
PARTIAL PLAN OF SLAB

STRANDS NOT SHOWN.
INTERIOR SLAB SHOWN, EXTERIOR SLAB SIMILAR EXCEPT BARRIER REINFORCEMENT. SEE BELOW.



PARTIAL PLAN OF EXTERIOR SLAB

SHOWING PLACEMENT OF LA0501 AND LA0502 BARS FOR MASH BARRIER PARAPET.
"LA05" BARS MAY BE SHIFTED SLIGHTLY TO AVOID STIRRUPS.



STRAND LAYOUT

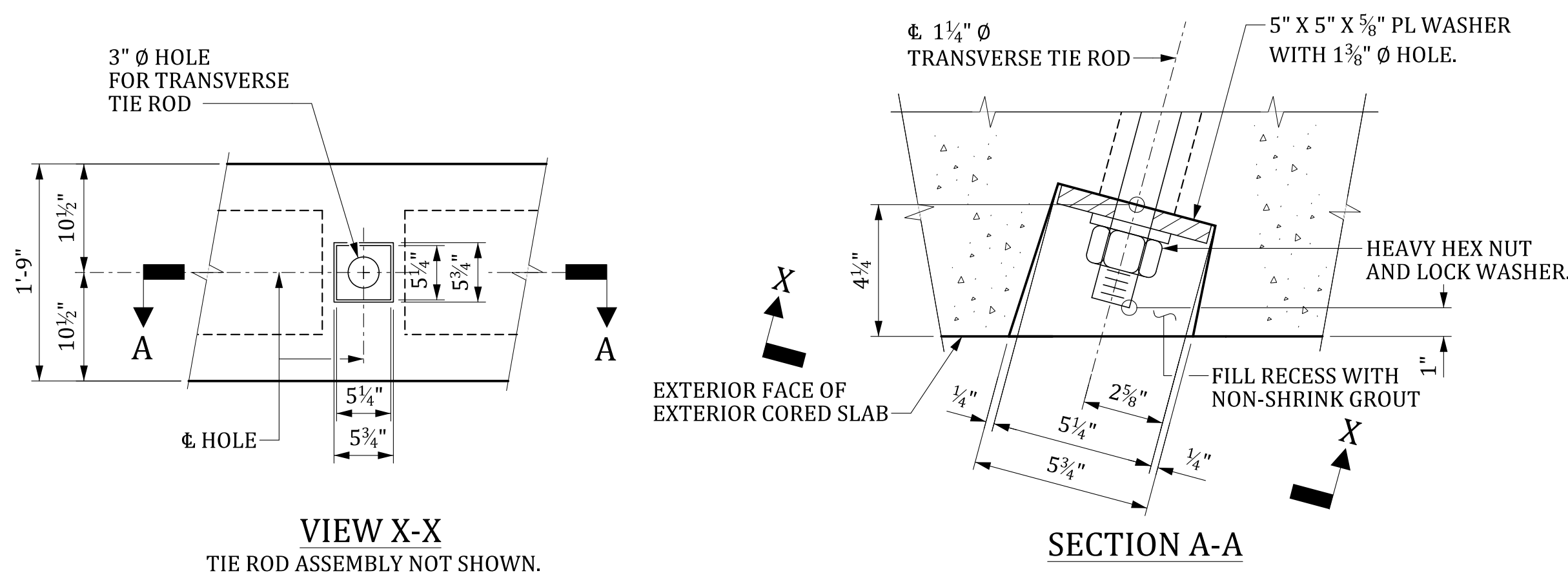
INTERIOR SLAB SHOWN - EXTERIOR SLAB SIMILAR EXCEPT SHEAR KEY LOCATION.

○ FULLY BONDED STRANDS

DESIGN DATA

STRANDS:
0.6" Ø LOW RELAXATION GRADE 270
AREA=0.217 SQ. IN.
TENSIONING LOAD = 43.9 KIPS

CONCRETE:
f'c = 5.0 KSI
f'ci = 4.0 KSI



TIE ROD POCKET DETAIL

EXTERIOR FACE OF EXTERIOR SLAB.

NOTE:
FOR DIAPHRAGM DIMENSIONS AND LAYOUT, SEE
"PRESTRESSED CONCRETE CORED SLAB 40' SPAN-PLAN" SHEET.

STIRRUPS AND VERTICAL BARRIER REINFORCEMENT
MAY BE SHIFTED SLIGHTLY TO CLEAR HOLES FOR TIE RODS.

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CONSULTANT NAME/LOGO

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

**PRESTRESSED CONCRETE CORED SLAB
40' SPAN DETAILS
(+15° SKEW)**

COUNTY: ####

ROUTE: ####

DRAWING NUMBER: 704-ACS.S040.SK015.D01

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

REVIEWED	QUAN.	CTM	GCM	05-23
DR.	CTM	MWB	05-23	
DES.	OP	DPP	09-23	
	BY	CHK.	DATE	

MBreeland 6/25/2024 5:21:37 PM 704_ACS_040.dgn