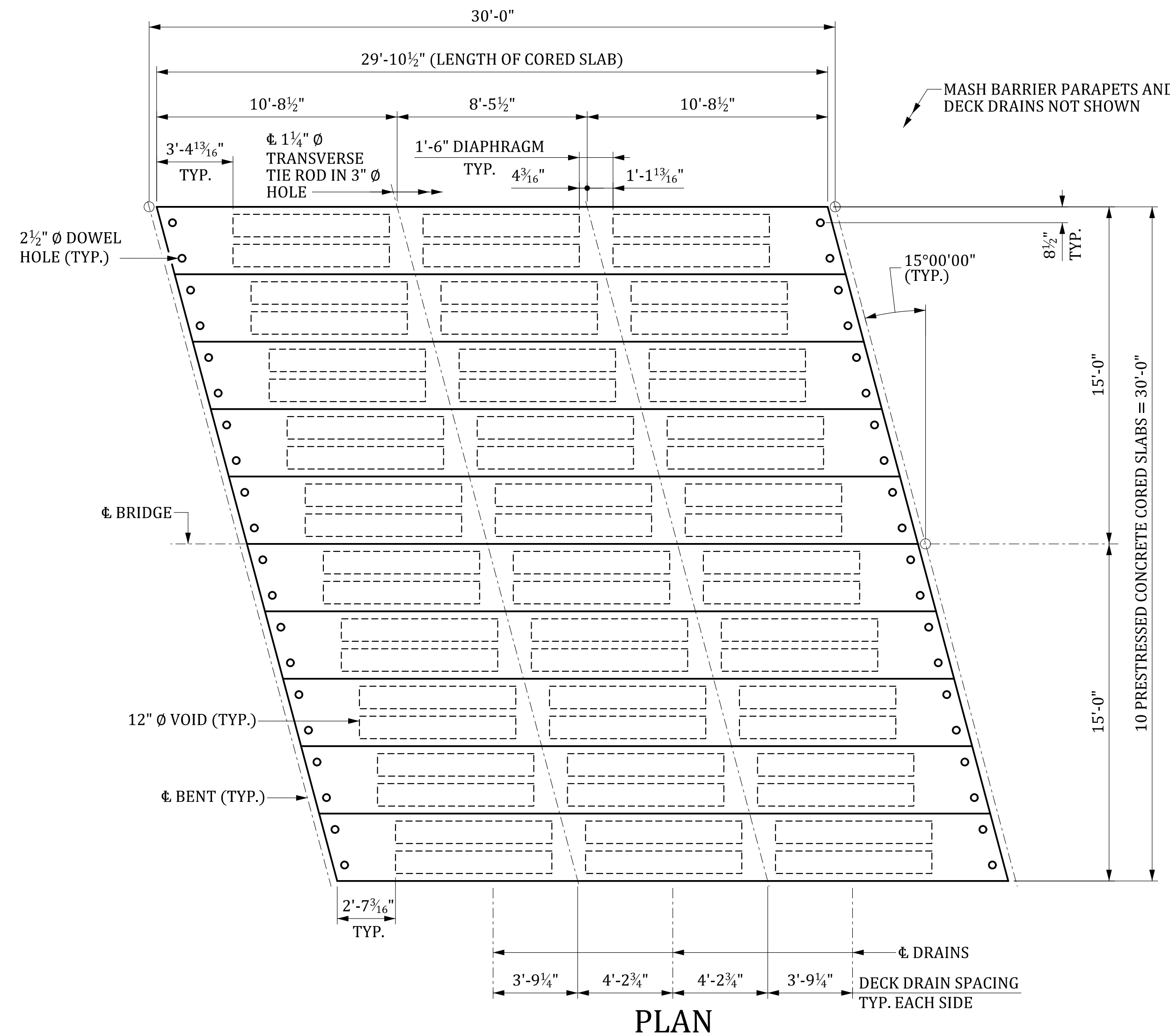
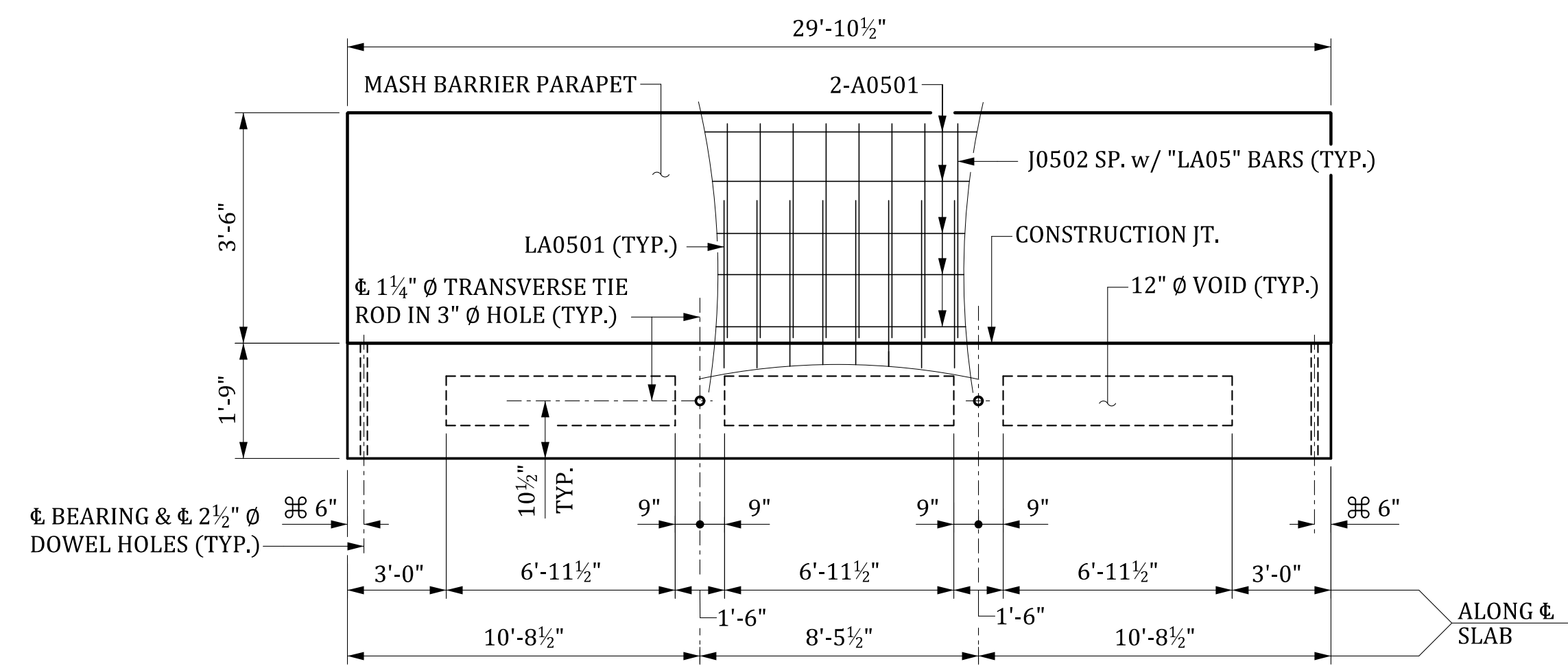


DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 3/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"



PLAN



ELEVATION

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
 FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 30' SPAN DETAILS" SHEET.

⊕ NORMAL TO END OF SLAB

BILL OF MATERIAL ONE 30' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	15'-9"	---	---	---	---	15'-9"
J0401	8	1'-10 1/2"	1'-6"	---	---	---	4'-11"
J0402	50	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 40	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	429	793
CONCRETE, Fc 5,000	CY	4.5	4.5
0.6" Ø L.R. STRANDS	LF	269	269

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 30' BARRIER PARAPET						
MARK	NO. REQ'D	DIMENSION				LENGTH
		"a"	"b"	"c"	"d"	
A0501	10	29'-6"	---	---	---	29'-6"
A0502	6	5'-0"	---	---	---	5'-0"
J0502	46	5 1/2"	3'-3"	---	---	7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	60.0
REINFORCING STEEL	LB	675
MASH CONCRETE BARRIER PARAPET	LF	30.0

ESTIMATED QUANTITIES - ONE 30' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	120.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,350
3'-0" X 1'-9" CORED SLABS	LF	298.8
MASH CONCRETE BARRIER PARAPET	LF	60.0
ELASTOMERIC BEARING	EA	20
BRIDGE DECK WATERPROOFING	SY	92.8

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
30' SPAN
 27'-10" ROADWAY (-15° SKEW)

COUNTY: #####

ROUTE: #####

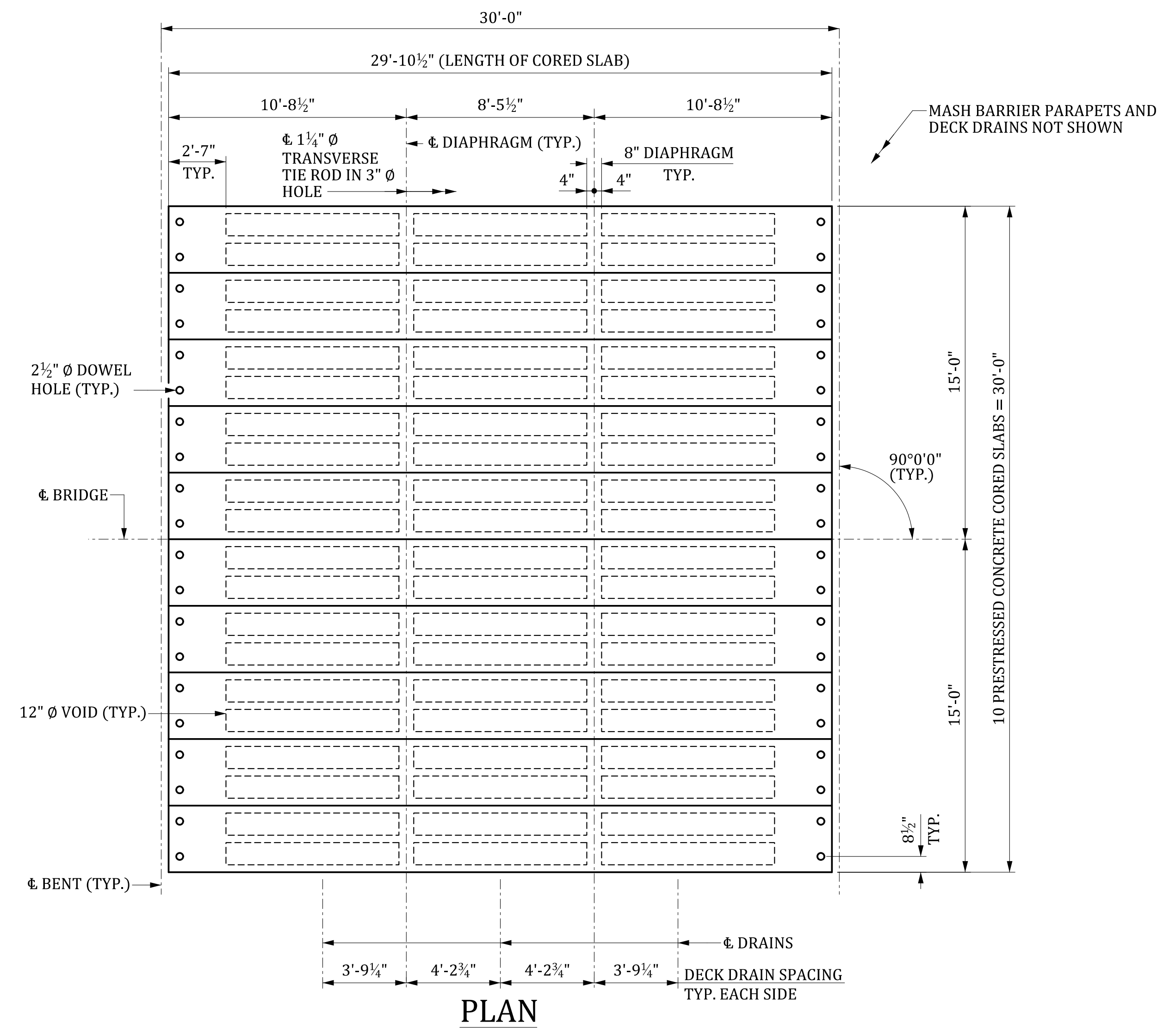
DRAWING NUMBER: 704-ACS.S030.R28.SK-15

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

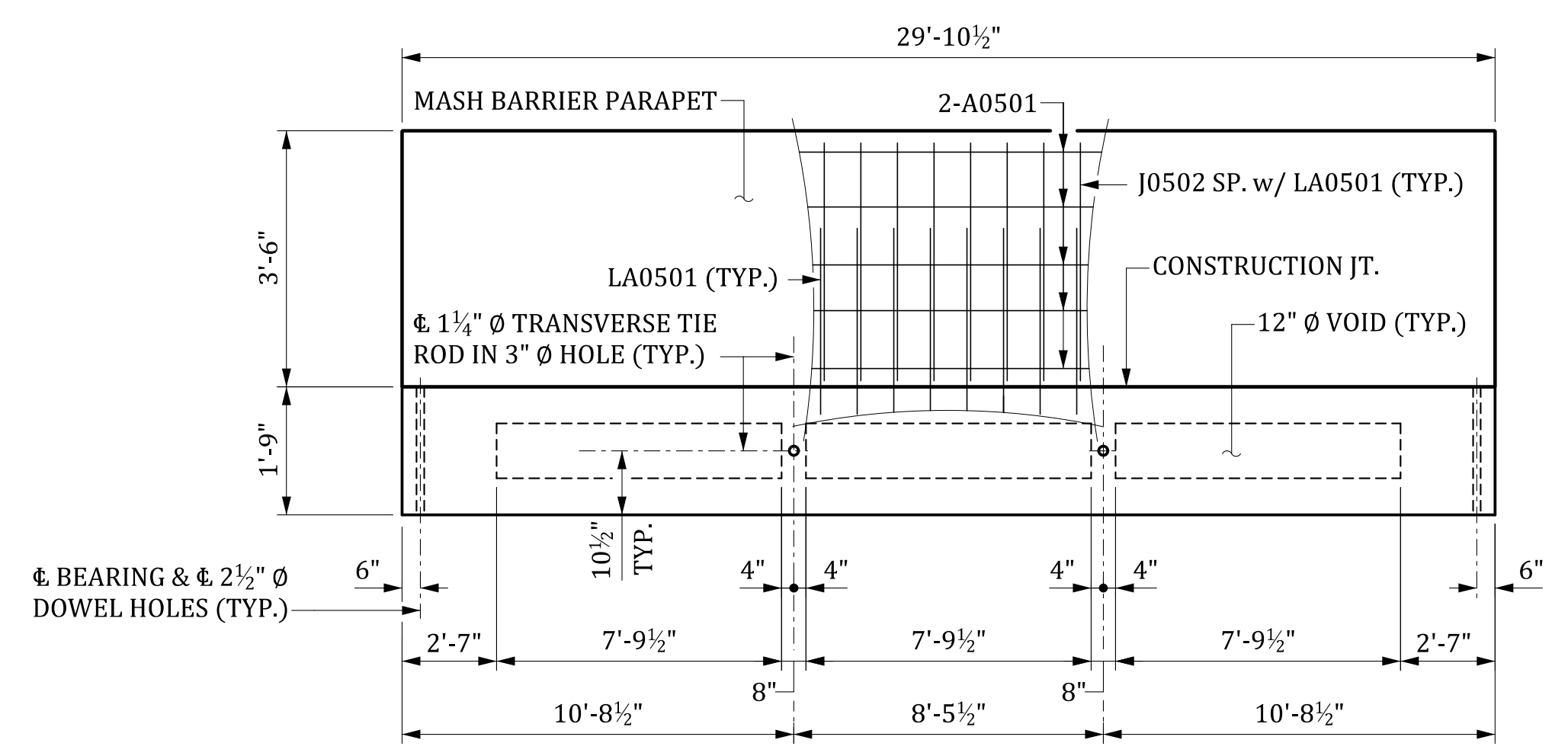
REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	OP	DPP	09-23
DES.	BY	CHK.	DATE

MBreeland 6/25/2024 5:21:07 PM 704_ACS_030.dgn

DEAD LOAD DEFLECTION & CAMBER	
CAMBER AT ERECTION (SLAB ALONE IN PLACE)	↑ 3/8"
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 30' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 30' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	15'-9"					15'-9"
J0401	8	1'-9 1/2"	1'-6"				4'-10"
J0402	80	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 46	5 1/2"					7'-7"

① LA0501 BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 30' BARRIER PARAPET						
MARK	NO. REQ'D	DIMENSION				LENGTH
		"a"	"b"	"c"	"d"	
A0501	10	29'-6"				29'-6"
A0502	6	5'-0"				5'-0"
J0502	46	5 1/2"	3'-3"			7'-0"

QUANTITIES

ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	419	783
CONCRETE, f'c 5,000	CY	4.4	4.4
0.6" Ø L.R. STRANDS	LF	269	269

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	60.0
REINFORCING STEEL	LB	675
MASH CONCRETE BARRIER PARAPET	LF	30.0

ESTIMATED QUANTITIES - ONE 30' SPAN

ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	120.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,350
3'-0" X 1'-9" CORED SLABS	LF	298.8
MASH CONCRETE BARRIER PARAPET	LF	60.0
ELASTOMERIC BEARING	EA	20
BRIDGE DECK WATERPROOFING	SY	92.8

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
30' SPAN
27'-10" ROADWAY (0° SKEW)

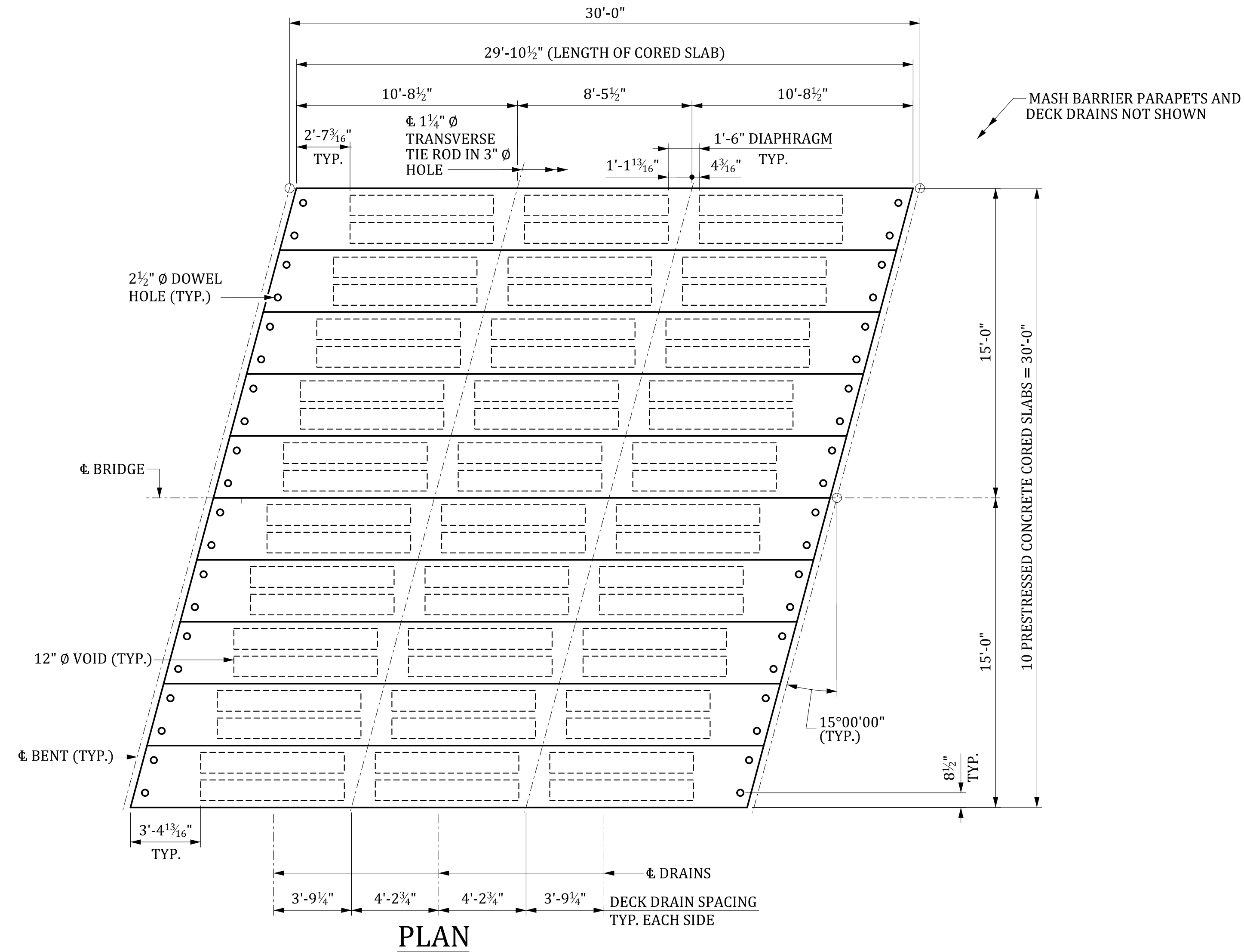
COUNTY: ##### ROUTE: #####

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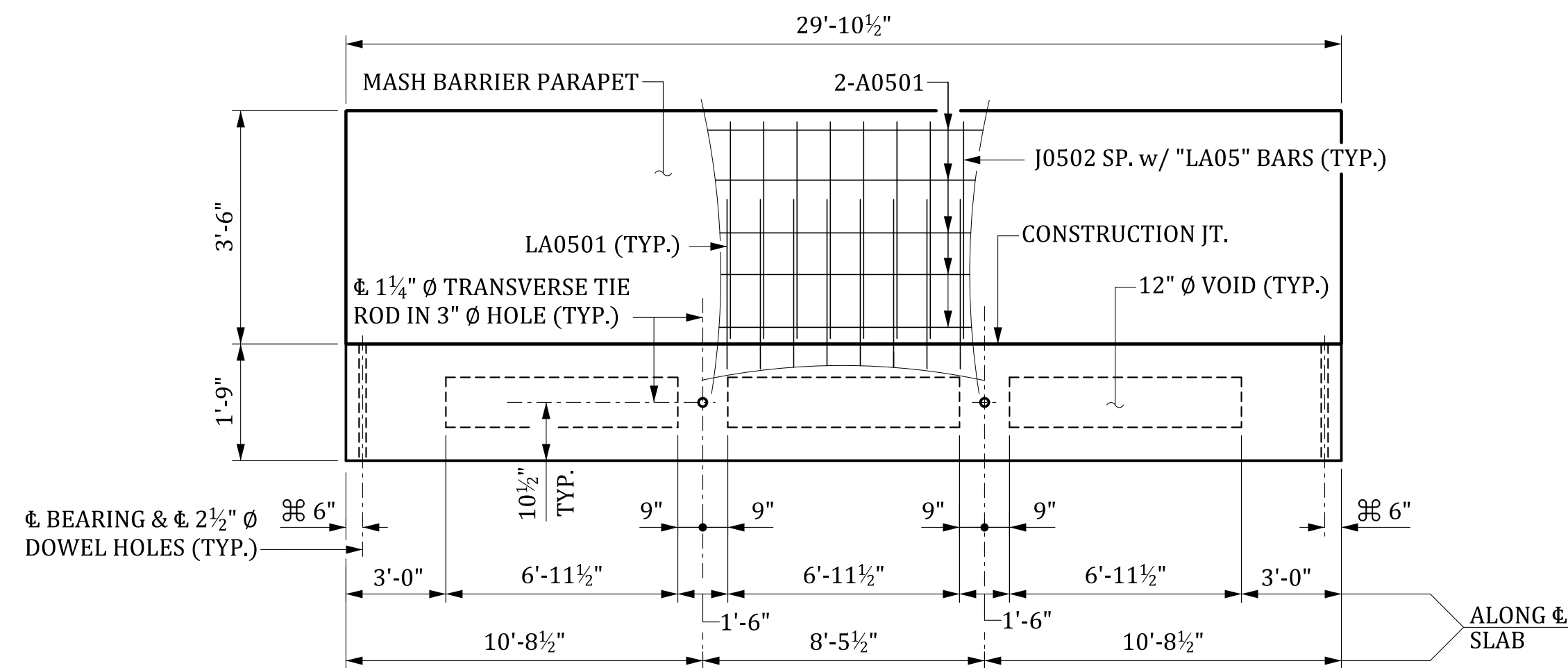
REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

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

DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 3/8"
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 30' SPAN DETAILS" SHEET.

⊕ NORMAL TO END OF SLAB

BILL OF MATERIAL ONE 30' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	15'-9"					15'-9"
J0401	8	1'-10 1/2"	1'-6"				4'-11"
J0402	50	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 40	5 1/2"					7'-7"
LA0502	① 6	5 3/4"					7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	429	793
CONCRETE, Fc 5,000	CY	4.5	4.5
0.6" Ø L.R. STRANDS	LF	269	269

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 30' BARRIER PARAPET							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	10	29'-6"					29'-6"
A0502	6	5'-0"					5'-0"
J0502	46	5 1/2"	3'-3"				7'-0"

QUANTITIES			
ITEM	UNIT	TOTAL	
2.0" SCHEDULE 80 PVC CONDUIT	LF	60.0	
REINFORCING STEEL	LB	675	
MASH CONCRETE BARRIER PARAPET	LF	30.0	

ESTIMATED QUANTITIES - ONE 30' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	120.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,350
3'-0" X 1'-9" CORED SLABS	LF	298.8
MASH CONCRETE BARRIER PARAPET	LF	60.0
ELASTOMERIC BEARING	EA	20
BRIDGE DECK WATERPROOFING	SY	92.8

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
30' SPAN
27'-10" ROADWAY (+15° SKEW)

COUNTY: #####

ROUTE: #####

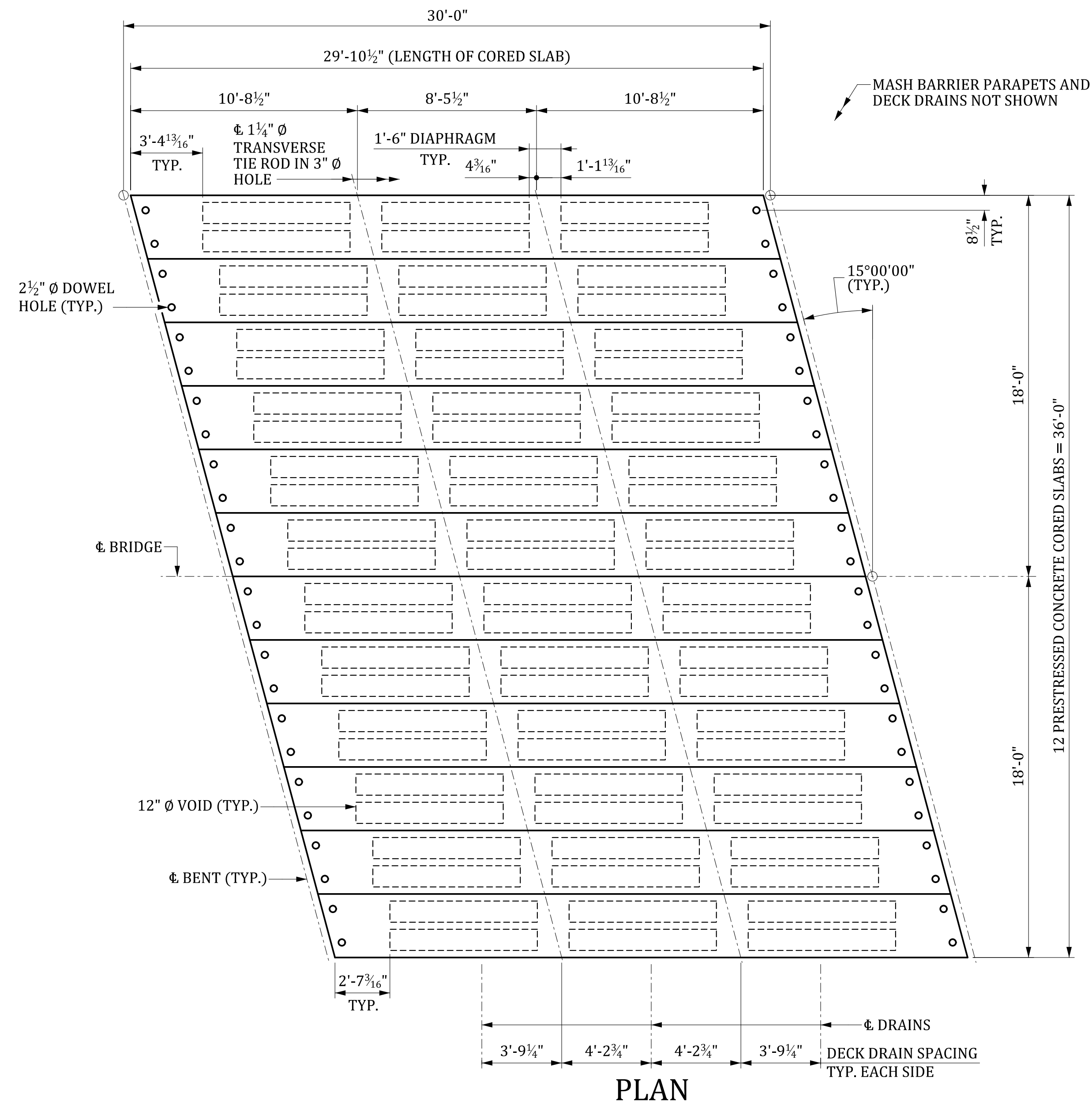
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REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

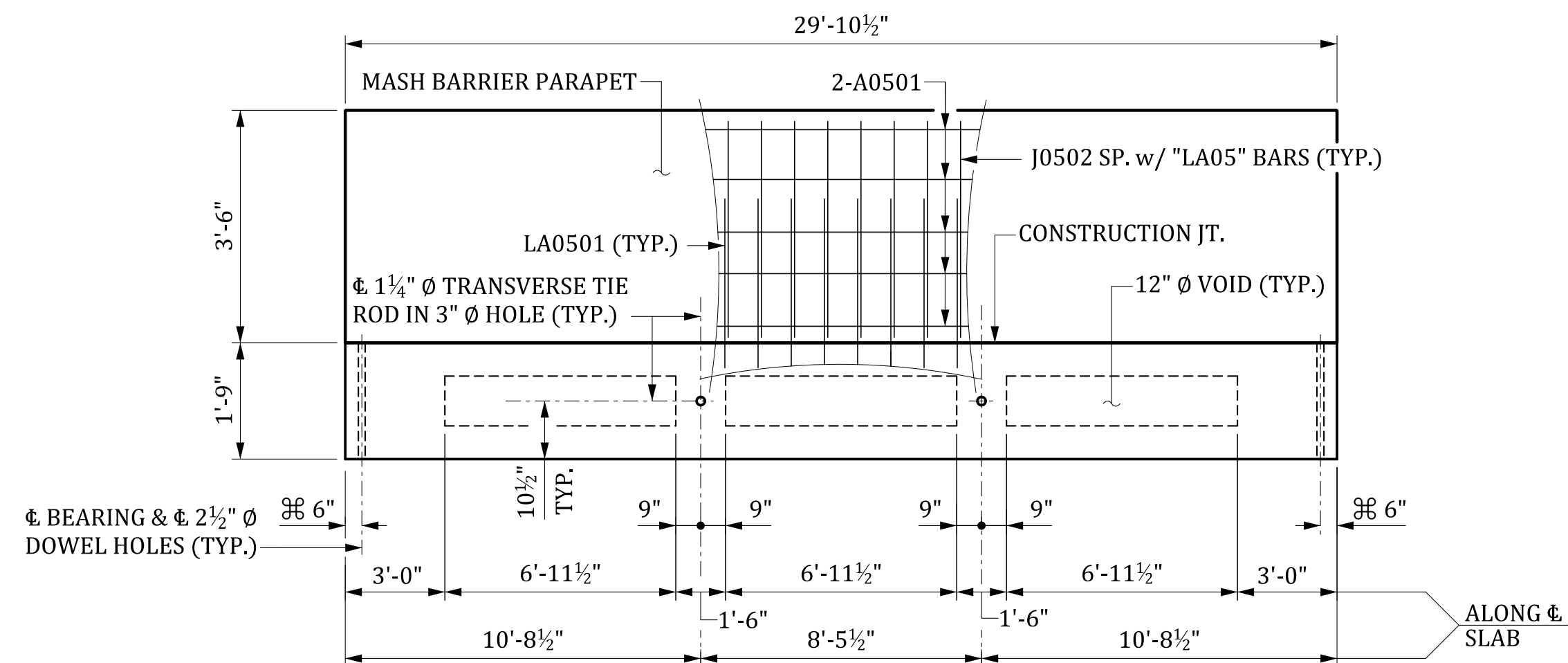
REVIEWED	QUAN.	CTM	GCM	05-23

MBreeland 6/25/2024 5:21:06 PM 704_ACS_030.dgn

DEAD LOAD DEFLECTION & CAMBER	
CAMBER AT ERECTION (SLAB ALONE IN PLACE)	↑ 3/8"
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 30' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 30' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	15'-9"	---	---	---	---	15'-9"
J0401	8	1'-10 1/2"	1'-6"	---	---	---	4'-11"
J0402	50	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 40	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	429	793
CONCRETE, f'c 5,000	CY	4.5	4.5
0.6" Ø L.R. STRANDS	LF	269	269

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 30' BARRIER PARAPET						
MARK	NO. REQ'D	DIMENSION				LENGTH
		"a"	"b"	"c"	"d"	
A0501	10	29'-6"	---	---	---	29'-6"
A0502	6	5'-0"	---	---	---	5'-0"
J0502	46	5 1/2"	3'-3"	---	---	7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	60.0
REINFORCING STEEL	LB	675
MASH CONCRETE BARRIER PARAPET	LF	30.0

ESTIMATED QUANTITIES - ONE 30' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	120.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,350
3'-0" X 1'-9" CORED SLABS	LF	358.5
MASH CONCRETE BARRIER PARAPET	LF	60.0
ELASTOMERIC BEARING	EA	24
BRIDGE DECK WATERPROOFING	SY	112.8

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
30' SPAN
33'-10" ROADWAY (-15° SKEW)

COUNTY: ###

ROUTE: ###

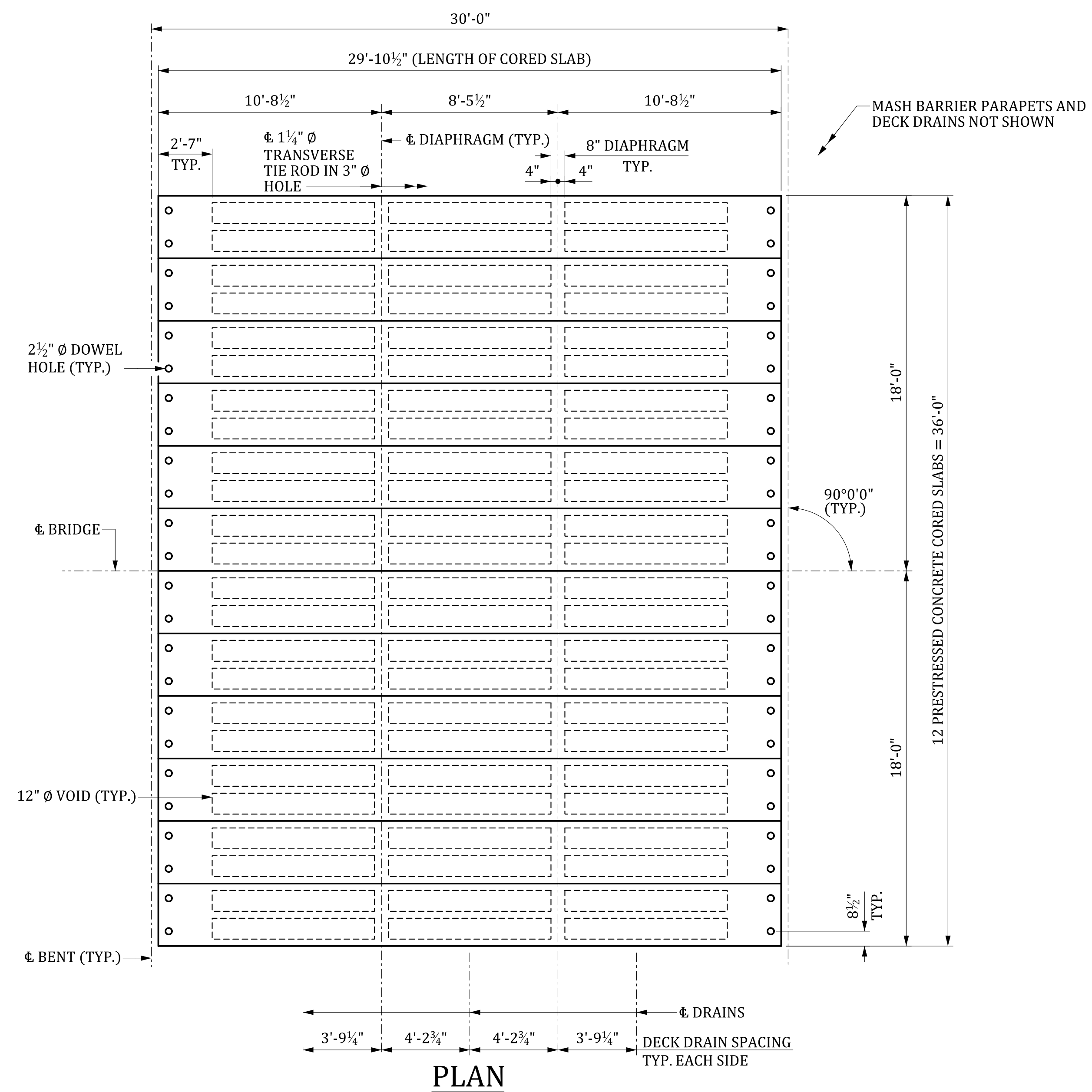
DRAWING NUMBER: 704-ACS.S030.R34.SK-15

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

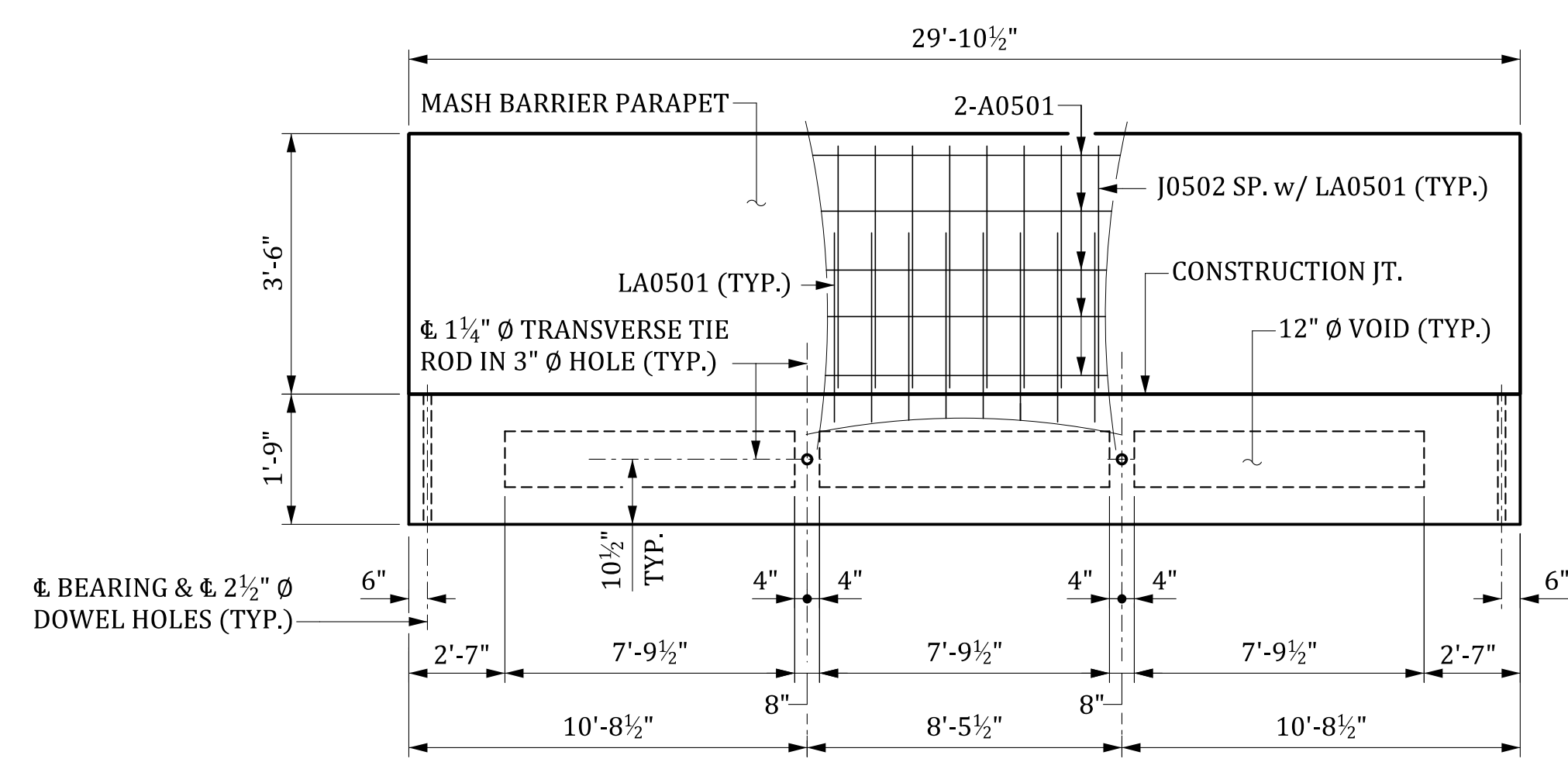
REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	OP	DPP	09-23
DES.	BY	CHK.	DATE

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DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 3/8"
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 30' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 30' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	15'-9"					15'-9"
J0401	8	1'-9 1/2"	1'-6"				4'-10"
J0402	80	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 46	5 1/2"					7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	419	783
CONCRETE, f'c 5,000	CY	4.4	4.4
0.6" Ø L.R. STRANDS	LF	269	269

① LA0501 BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 30' BARRIER PARAPET							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	10	29'-6"					29'-6"
A0502	6	5'-0"					5'-0"
J0502	46	5 1/2"	3'-3"				7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	60.0
REINFORCING STEEL	LB	675
MASH CONCRETE BARRIER PARAPET	LF	30.0

ESTIMATED QUANTITIES - ONE 30' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	120.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,350
3'-0" X 1'-9" CORED SLABS	LF	358.5
MASH CONCRETE BARRIER PARAPET	LF	60.0
ELASTOMERIC BEARING	EA	24
BRIDGE DECK WATERPROOFING	SY	112.8

NOTE:
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CONSULTANT NAME/LOGO

SOUTH CAROLINA
 DEPARTMENT OF TRANSPORTATION

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

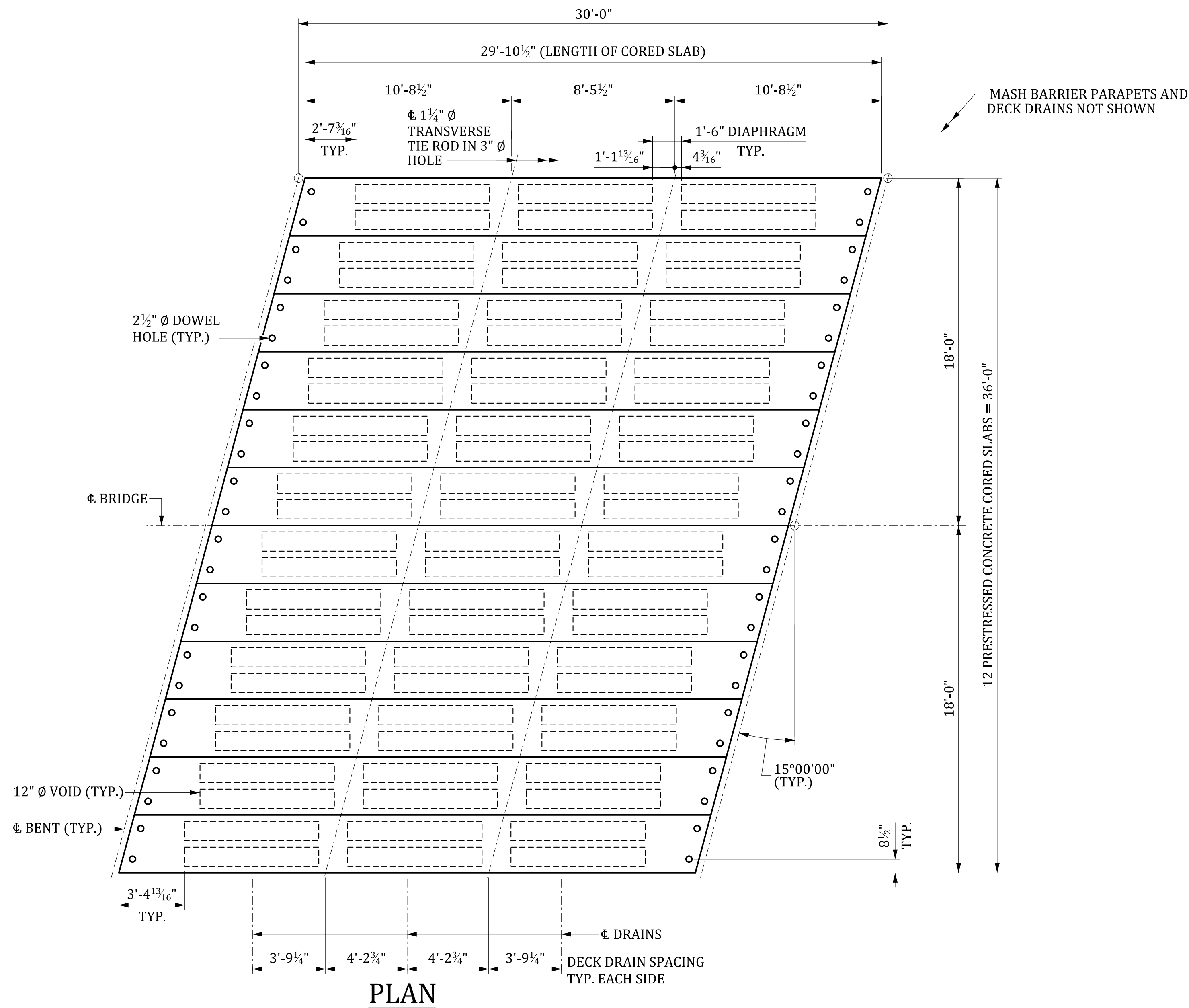
COUNTY: ##### ROUTE: #####

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

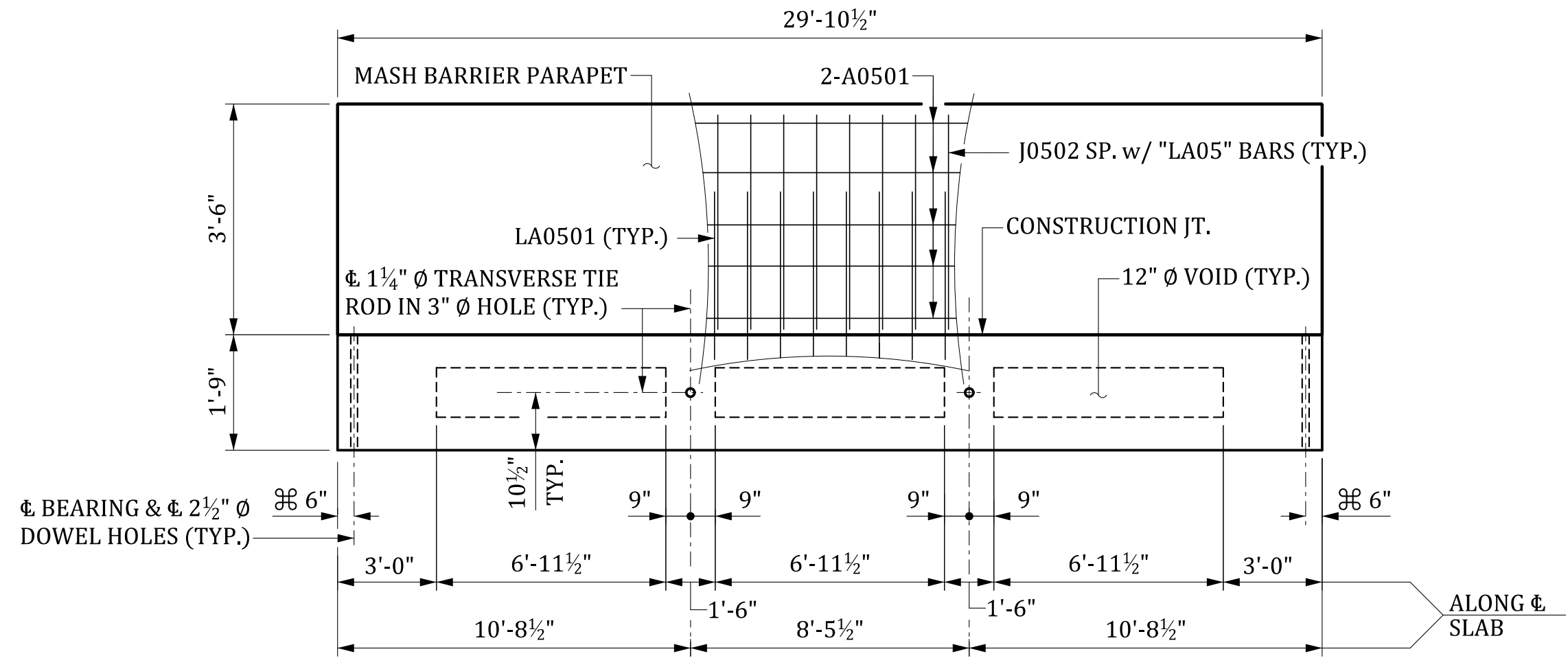
REVIEWED	CTM	GCM	05-23
QUAN.	CTM	MWB	05-23
DR.	OP	DPP	09-23
DES.	BY	CHK.	DATE

MBreeland 6/25/2024 5:21:12 PM 704_ACS_030.dgn

DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 3/8"
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 30' SPAN DETAILS" SHEET.

BILL OF MATERIAL ONE 30' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	15'-9"	---	---	---	---	15'-9"
J0401	8	1'-10 1/2"	1'-6"	---	---	---	4'-11"
J0402	50	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 40	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	429	793
CONCRETE, f'c 5,000	CY	4.5	4.5
0.6" Ø L.R. STRANDS	LF	269	269

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 30' BARRIER PARAPET						
MARK	NO. REQ'D	DIMENSION				LENGTH
		"a"	"b"	"c"	"d"	
A0501	10	29'-6"	---	---	---	29'-6"
A0502	6	5'-0"	---	---	---	5'-0"
J0502	46	5 1/2"	3'-3"	---	---	7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	60.0
REINFORCING STEEL	LB	675
MASH CONCRETE BARRIER PARAPET	LF	30.0

ESTIMATED QUANTITIES - ONE 30' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	120.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,350
3'-0" X 1'-9" CORED SLABS	LF	358.5
MASH CONCRETE BARRIER PARAPET	LF	60.0
ELASTOMERIC BEARING	EA	24
BRIDGE DECK WATERPROOFING	SY	112.8

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
30' SPAN
33'-10" ROADWAY (+15° SKEW)

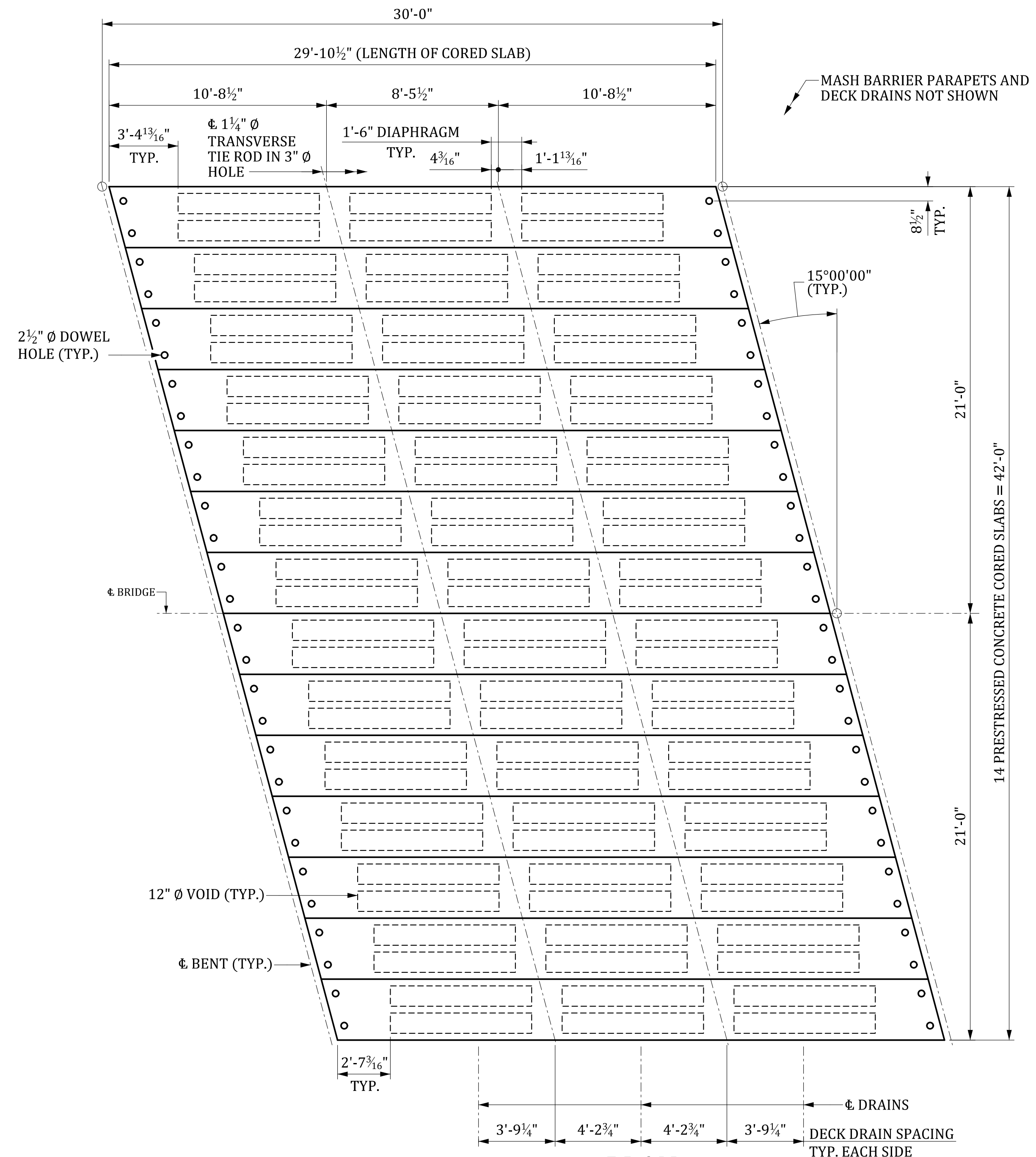
COUNTY: ##### ROUTE: #####

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

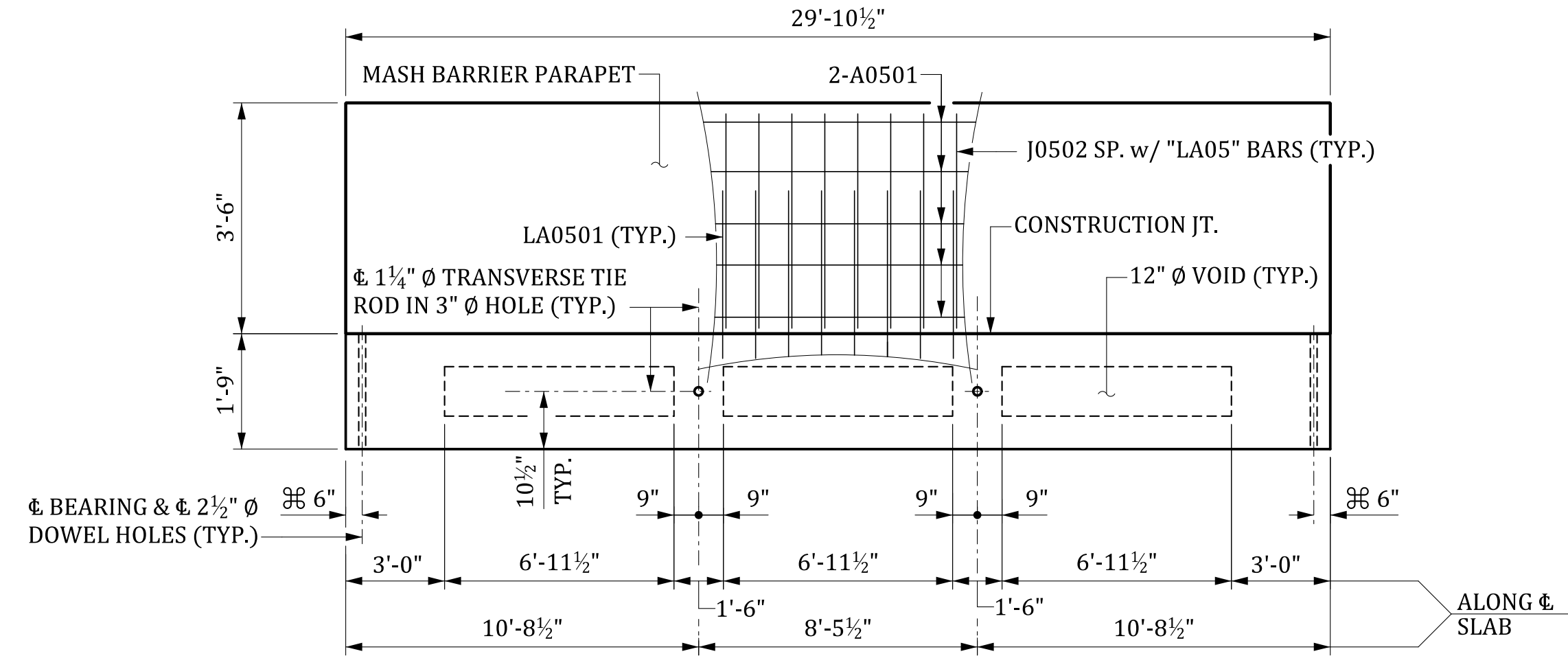
REVIEWED	QUAN.	CTM	GCM	05-23
DR.	CTM	MWB	05-23	
DES.	OP	DPP	09-23	
	BY	CHK.	DATE	

MBreeland 6/25/2024 5:21:09 PM 704_ACS_030.dgn

DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 3/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"



PLAN



ELEVATION

⊕ NORMAL TO END OF SLAB

BILL OF MATERIAL ONE 30' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	15'-9"	---	---	---	---	15'-9"
J0401	8	1'-10 1/2"	1'-6"	---	---	---	4'-11"
J0402	50	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 40	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	429	793
CONCRETE, f'c 5,000	CY	4.5	4.5
0.6" Ø L.R. STRANDS	LF	269	269

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 30' BARRIER PARAPET						
MARK	NO. REQ'D	DIMENSION				LENGTH
		"a"	"b"	"c"	"d"	
A0501	10	29'-6"	---	---	---	29'-6"
A0502	6	5'-0"	---	---	---	5'-0"
J0502	46	5 1/2"	3'-3"	---	---	7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	60.0
REINFORCING STEEL	LB	675
MASH CONCRETE BARRIER PARAPET	LF	30.0

ESTIMATED QUANTITIES - ONE 30' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	120.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,350
3'-0" X 1'-9" CORED SLABS	LF	418.3
MASH CONCRETE BARRIER PARAPET	LF	60.0
ELASTOMERIC BEARING	EA	28
BRIDGE DECK WATERPROOFING	SY	132.8

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
30' SPAN
39'-10" ROADWAY (-15° SKEW)

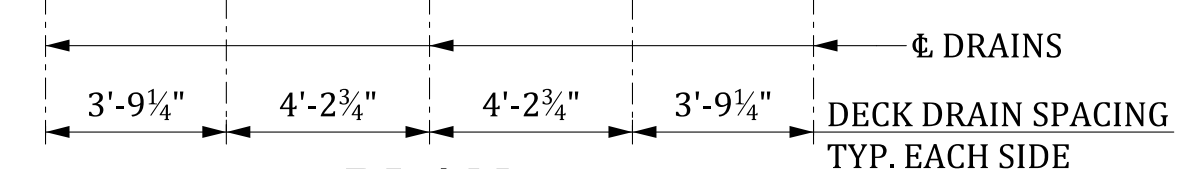
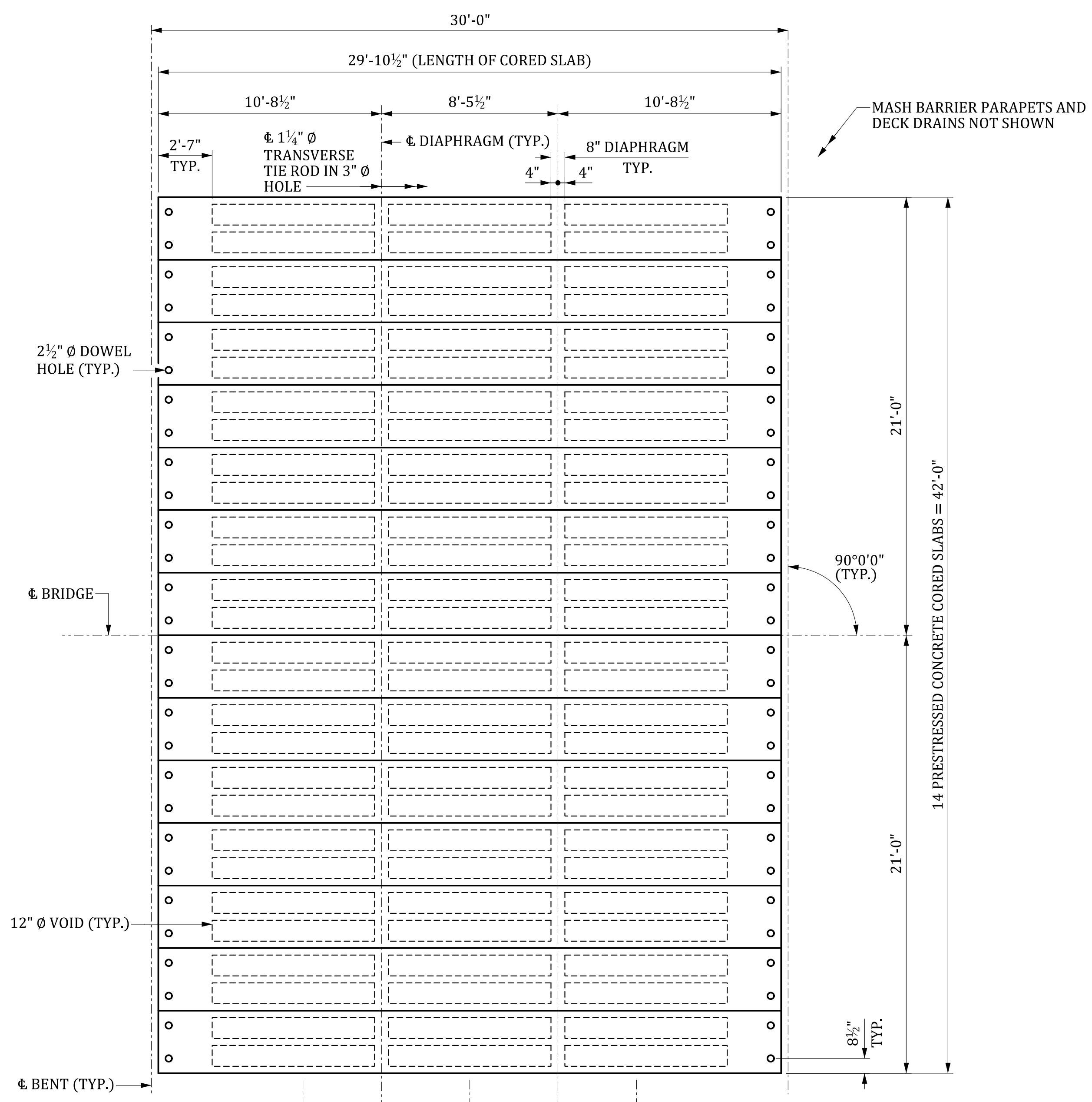
COUNTY: ##### ROUTE: #####

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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

DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 3/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"



BILL OF MATERIAL ONE 30' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	15'-9"					15'-9"
J0401	8	1'-9 1/2"	1'-6"				4'-10"
J0402	80	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 46	5 1/2"					7'-7"

QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	419	783
CONCRETE, f'c 5,000	CY	4.4	4.4
0.6" Ø L.R. STRANDS	LF	269	269

① LA0501 BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 30' BARRIER PARAPET							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	10	29'-6"					29'-6"
A0502	6	5'-0"					5'-0"
J0502	46	5 1/2"	3'-3"				7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	60.0
REINFORCING STEEL	LB	675
MASH CONCRETE BARRIER PARAPET	LF	30.0

ESTIMATED QUANTITIES - ONE 30' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	120.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,350
3'-0" X 1'-9" CORED SLABS	LF	418.3
MASH CONCRETE BARRIER PARAPET	LF	60.0
ELASTOMERIC BEARING	EA	28
BRIDGE DECK WATERPROOFING	SY	132.8

MBreeland 6/25/2024 5:21:17 PM 704_ACS_030.dgn

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

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
30' SPAN
39'-10" ROADWAY (0° SKEW)

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

PLAN

29'-10 1/2" (LENGTH OF CORED SLAB)

10'-8 1/2" 8'-5 1/2" 10'-8 1/2"

2'-7" TYP. 4" 4" 8" DIAPHRAGM TYP.

Φ 1 1/4" Ø TRANSVERSE TIE ROD IN 3" Ø HOLE

Φ DIAPHRAGM (TYP.)

2 1/2" Ø DOWEL HOLE (TYP.)

Φ BRIDGE

90° 0' 0" (TYP.)

14 PRESTRESSED CONCRETE CORED SLABS = 42'-0"

21'-0"

21'-0"

8 1/2" TYP.

Φ BENT (TYP.)

Φ DRAINS

DECK DRAIN SPACING TYP. EACH SIDE

3'-9 1/4" 4'-2 3/4" 4'-2 3/4" 3'-9 1/4"

ELEVATION

29'-10 1/2"

MASH BARRIER PARAPET

2-A0501

J0502 SP. w/ LA0501 (TYP.)

CONSTRUCTION JT.

12" Ø VOID (TYP.)

LA0501 (TYP.)

Φ 1 1/4" Ø TRANSVERSE TIE ROD IN 3" Ø HOLE (TYP.)

3'-6"

1'-9"

6"

10 1/2" TYP.

4" 4" 4" 4"

6"

2'-7" 7'-9 1/2" 8" 7'-9 1/2" 8" 7'-9 1/2" 2'-7"

10'-8 1/2" 8" 8'-5 1/2" 10'-8 1/2"

Φ BEARING & Φ 2 1/2" Ø DOWEL HOLES (TYP.)

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
 FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 30' SPAN DETAILS" SHEET.

DEAD LOAD DEFLECTION & CAMBER		
CAMBER AT ERECTION (SLAB ALONE IN PLACE)		↑ 3/8"
DEFLECTION DUE TO BARRIER PARAPETS AND ASPHALT WEARING SURFACE		↓ X"
FINAL CAMBER		↑ X"

BILL OF MATERIAL ONE 30' CORED SLAB							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0401	4	15'-9"	---	---	---	---	15'-9"
J0401	8	1'-10 1/2"	1'-6"	---	---	---	4'-11"
J0402	50	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 40	5 1/2"	---	---	---	---	7'-7"
LA0502	① 6	5 3/4"	---	---	---	---	7'-7"

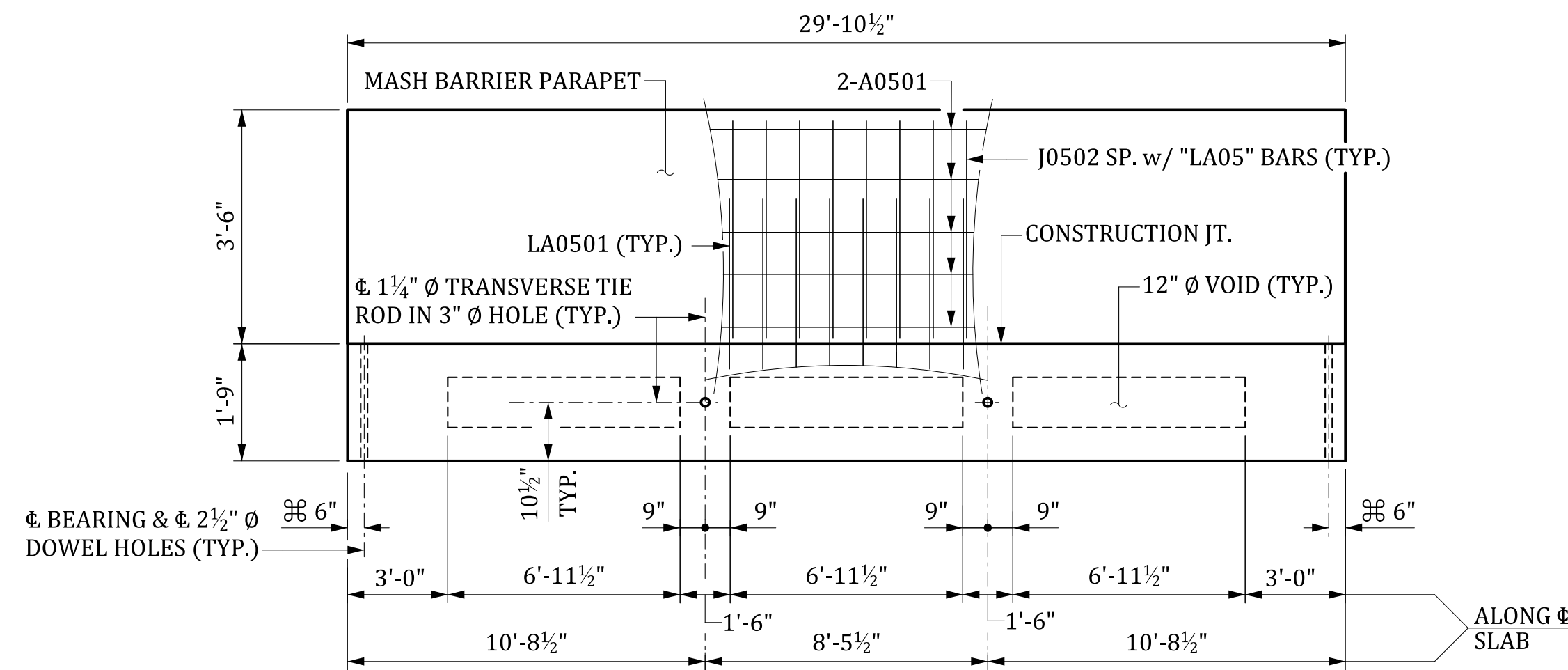
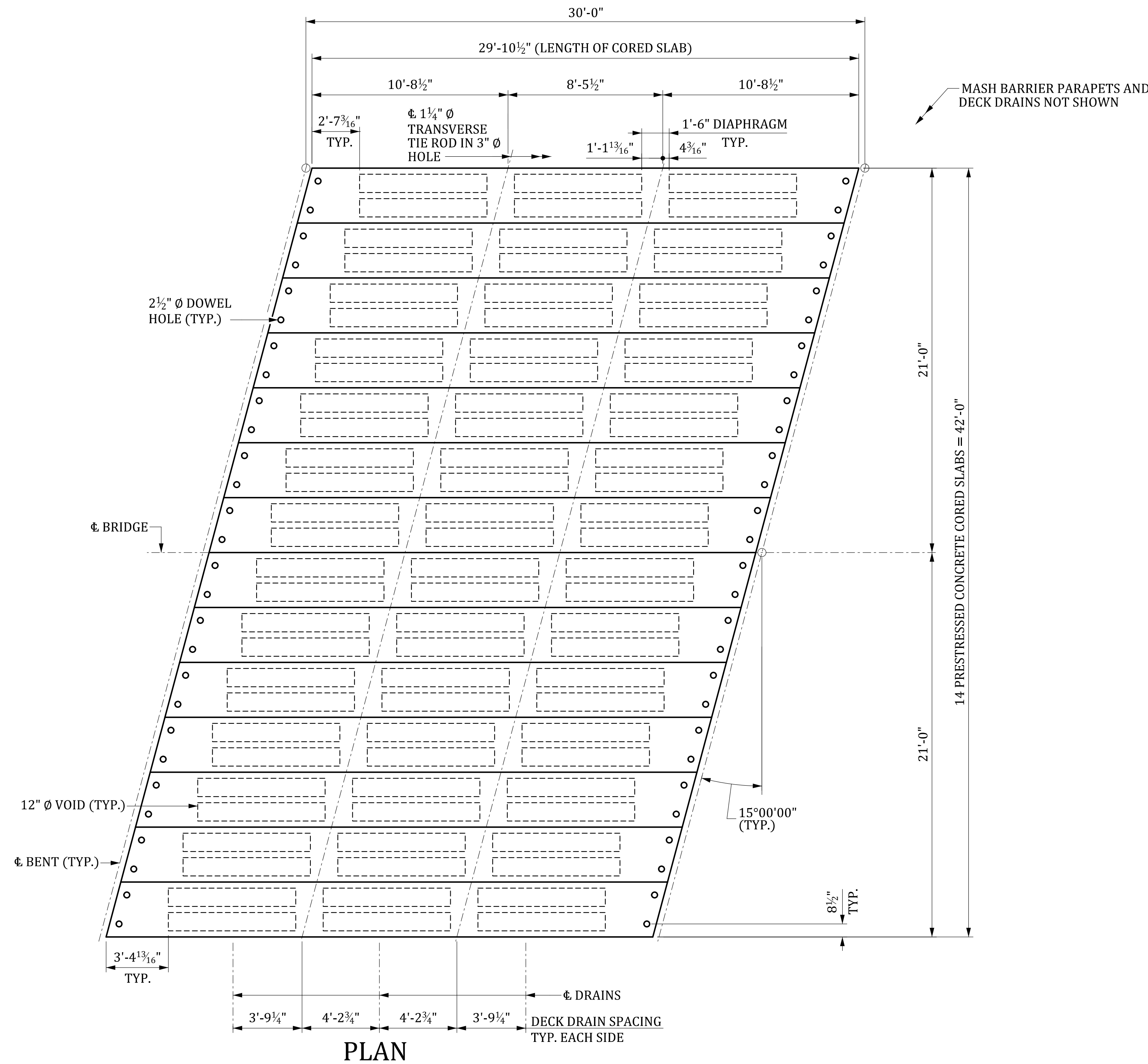
QUANTITIES			
ITEM	UNIT	INTERIOR	EXTERIOR
REINFORCING STEEL	LB	429	793
CONCRETE, f'c 5,000	CY	4.5	4.5
0.6" Ø L.R. STRANDS	LF	269	269

① "LA05" BARS REQUIRED FOR EXTERIOR SLABS ONLY.

BILL OF MATERIAL ONE 30' BARRIER PARAPET							
MARK	NO. REQ'D	DIMENSION					LENGTH
		"a"	"b"	"c"	"d"	"e"	
A0501	10	29'-6"	---	---	---	---	29'-6"
A0502	6	5'-0"	---	---	---	---	5'-0"
J0502	46	5 1/2"	3'-3"	---	---	---	7'-0"

QUANTITIES		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	60.0
REINFORCING STEEL	LB	675
MASH CONCRETE BARRIER PARAPET	LF	30.0

ESTIMATED QUANTITIES - ONE 30' SPAN		
ITEM	UNIT	TOTAL
2.0" SCHEDULE 80 PVC CONDUIT	LF	120.0
REINFORCING STEEL FOR STRUCTURES (BRIDGE)	LB	1,350
3'-0" X 1'-9" CORED SLABS	LF	418.3
MASH CONCRETE BARRIER PARAPET	LF	60.0
ELASTOMERIC BEARING	EA	28
BRIDGE DECK WATERPROOFING	SY	132.8



⊗ NORMAL TO END OF SLAB

DECK DRAINS AND TIE ROD POCKETS NOT SHOWN.
 FOR CORED SLAB REINFORCING STEEL LAYOUT, SEE "PRESTRESSED CONCRETE CORED SLAB 30' 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

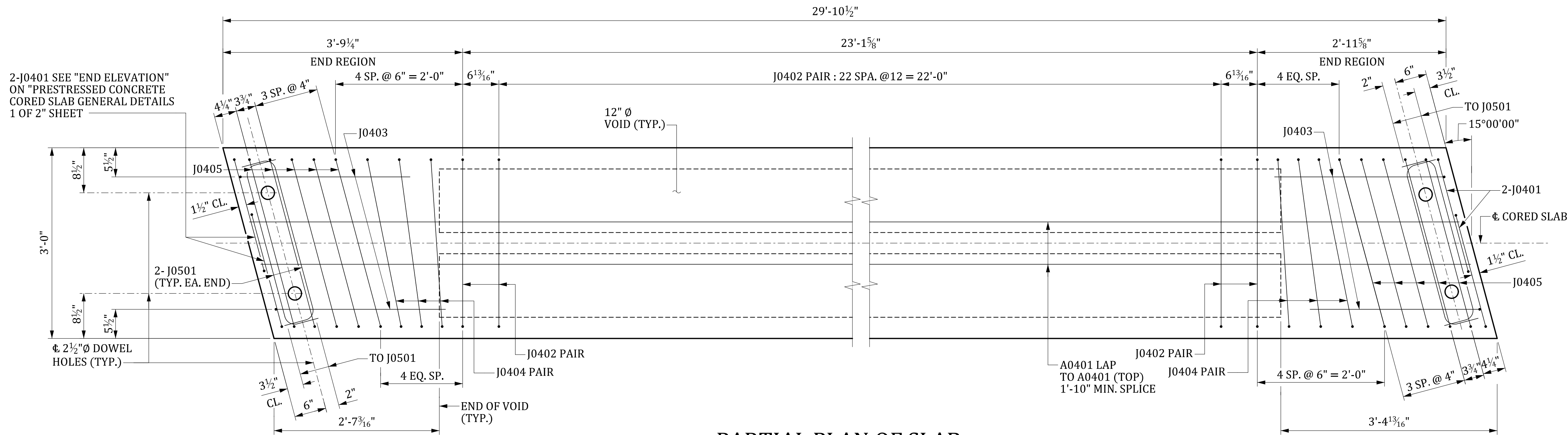
**PRESTRESSED CONCRETE CORED SLAB
 30' SPAN
 39'-10" ROADWAY (+15° SKEW)**

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

REV.	DATE	BY	CHK.	DESCRIPTION OF REVISION

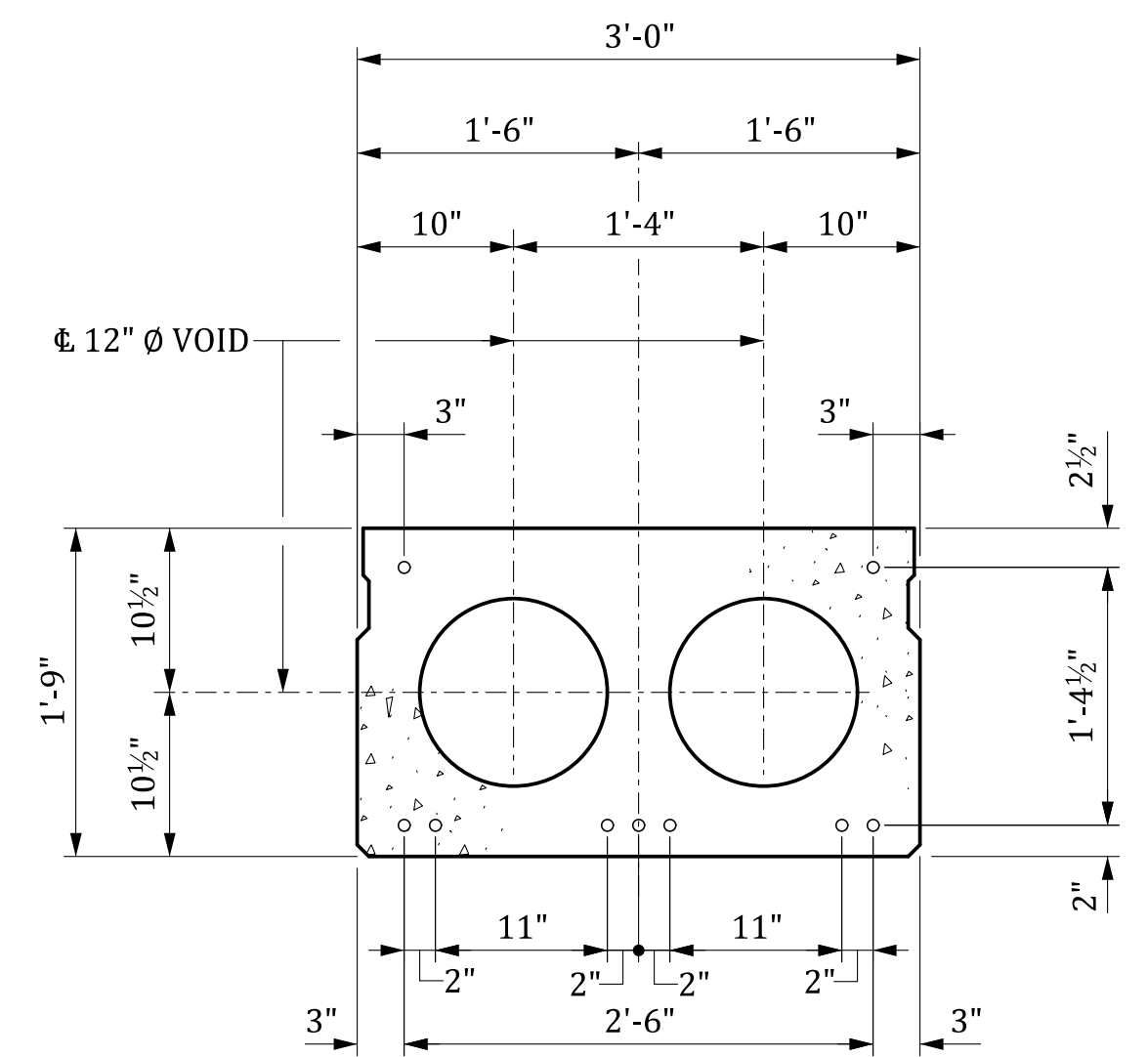
REVIEWED	QUAN.	CTM	GCM	05-23
DR.	CTM	MWB	05-23	
DES.	OP	DPP	09-23	
	BY	CHK.	DATE	

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PARTIAL PLAN OF SLAB

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



STRAND LAYOUT

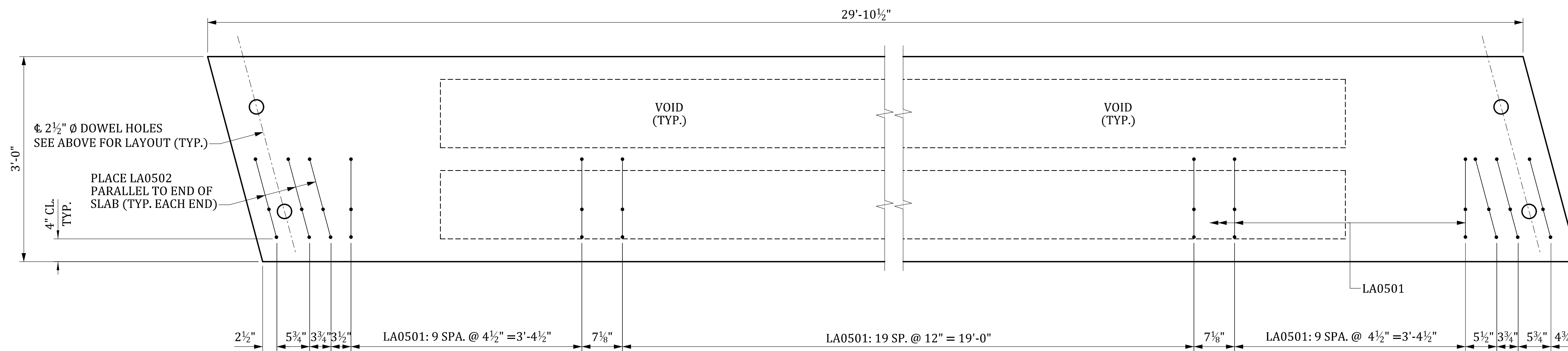
INTERIOR SLAB SHOWN - EXTERIOR SLAB SIMILAR EXCEPT SHEAR KEY LOCATION.

○ FULLY BONDED STRANDS

DESIGN DATA

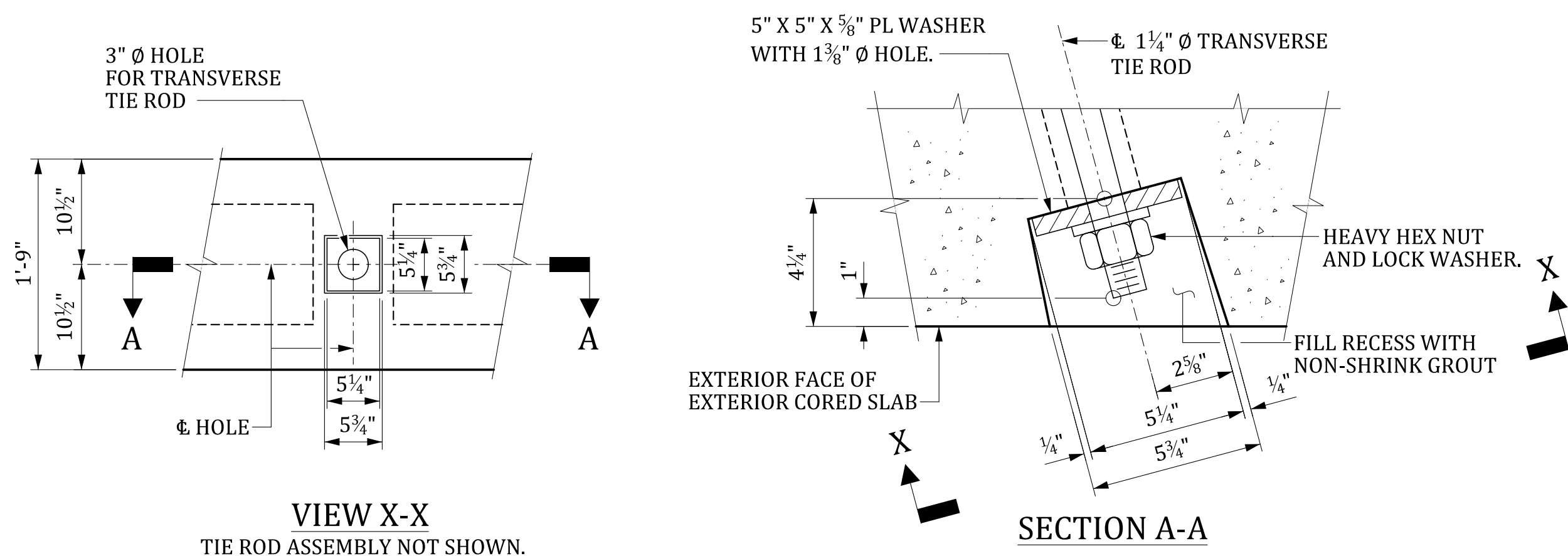
STRANDS:
0.6"Ø LOW RELAXATION GRADE 270
AREA=0.217 SQ. IN.
TENSIONING LOAD = 43.9 KIPS

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



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 30' 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
30' SPAN DETAILS
(-15° SKEW)

COUNTY: ####

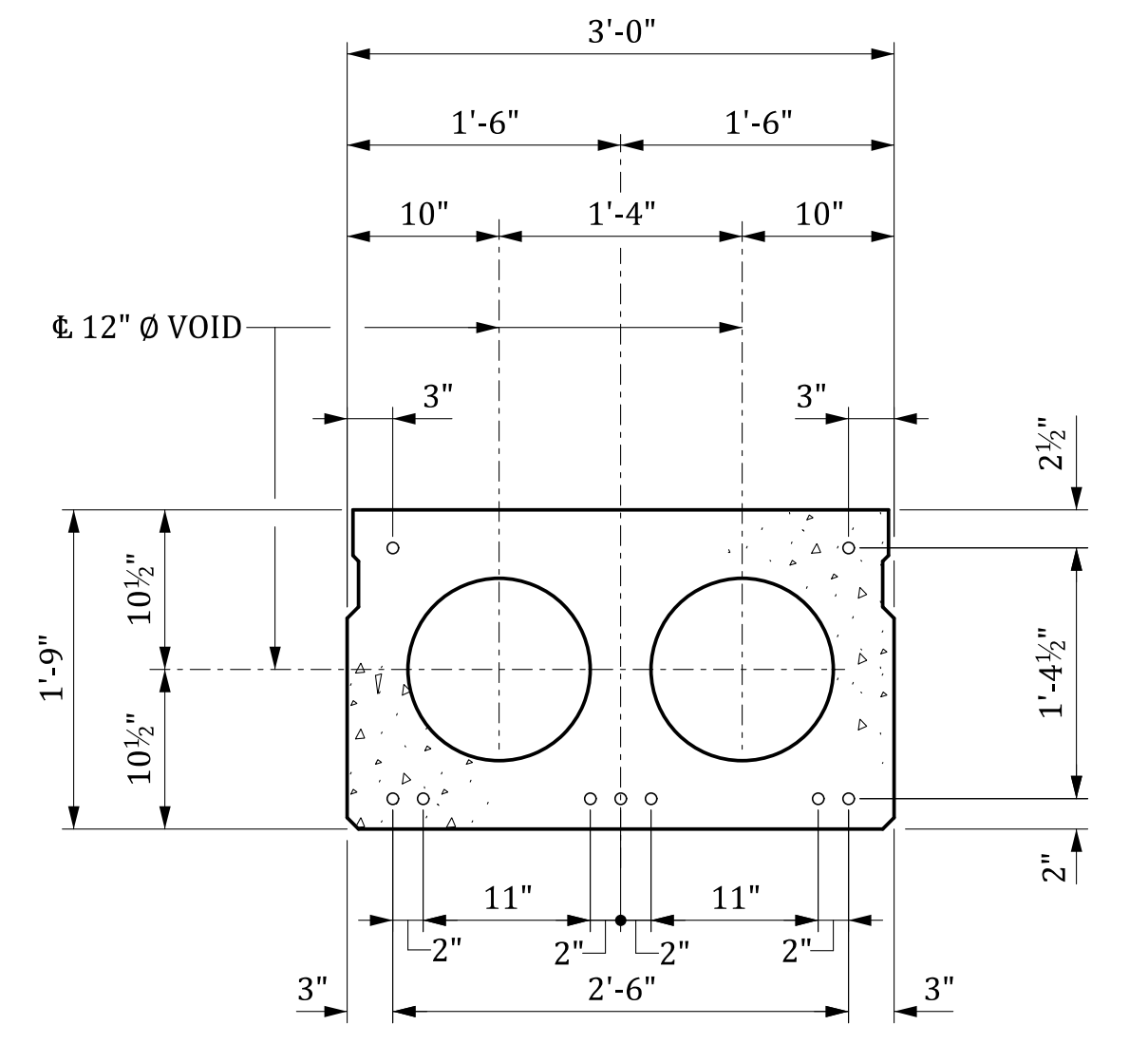
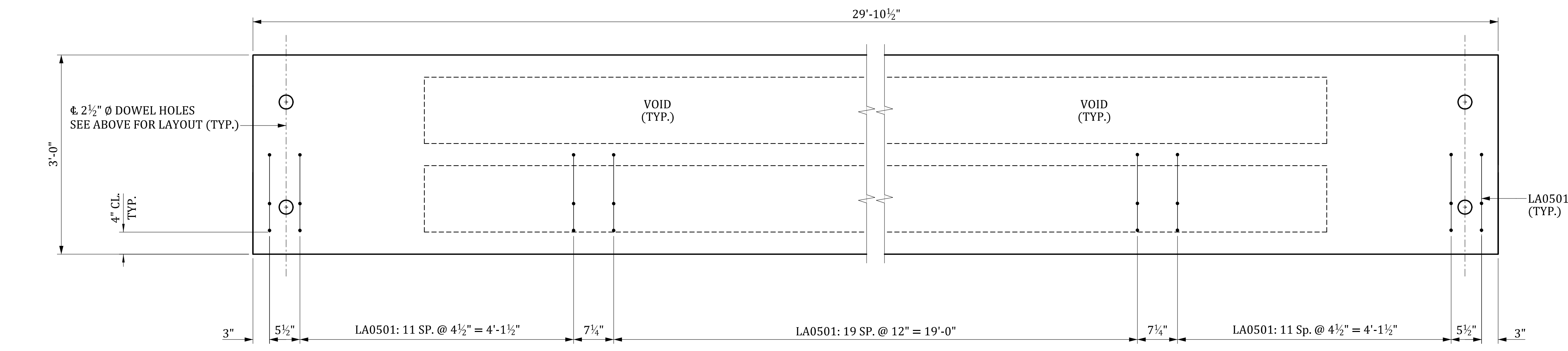
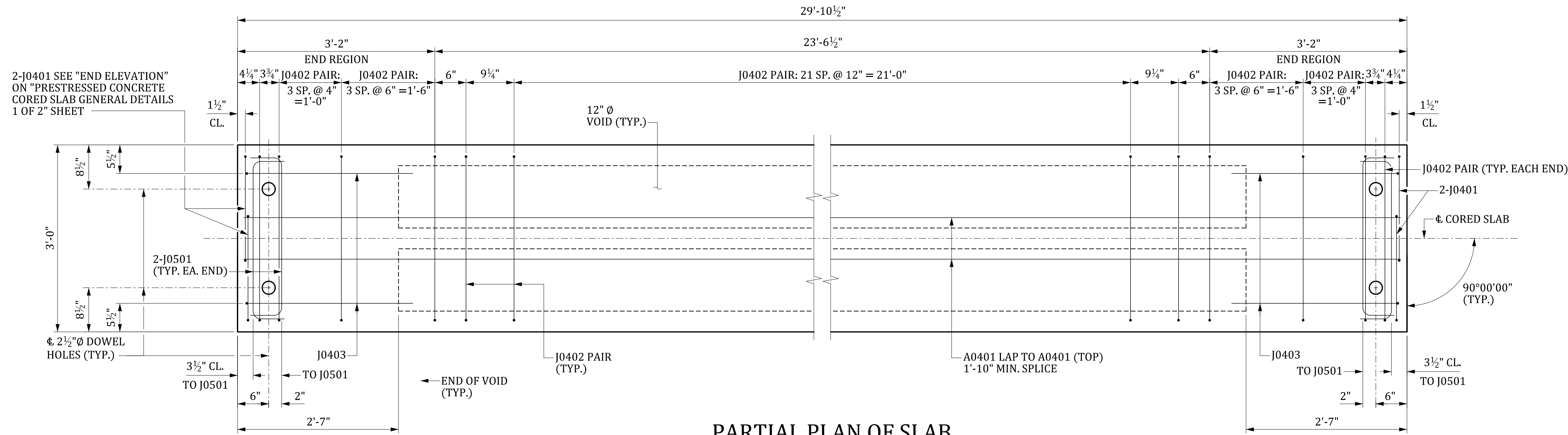
ROUTE: ####

DRAWING NUMBER: 704-ACS.S030.SK-15.D01

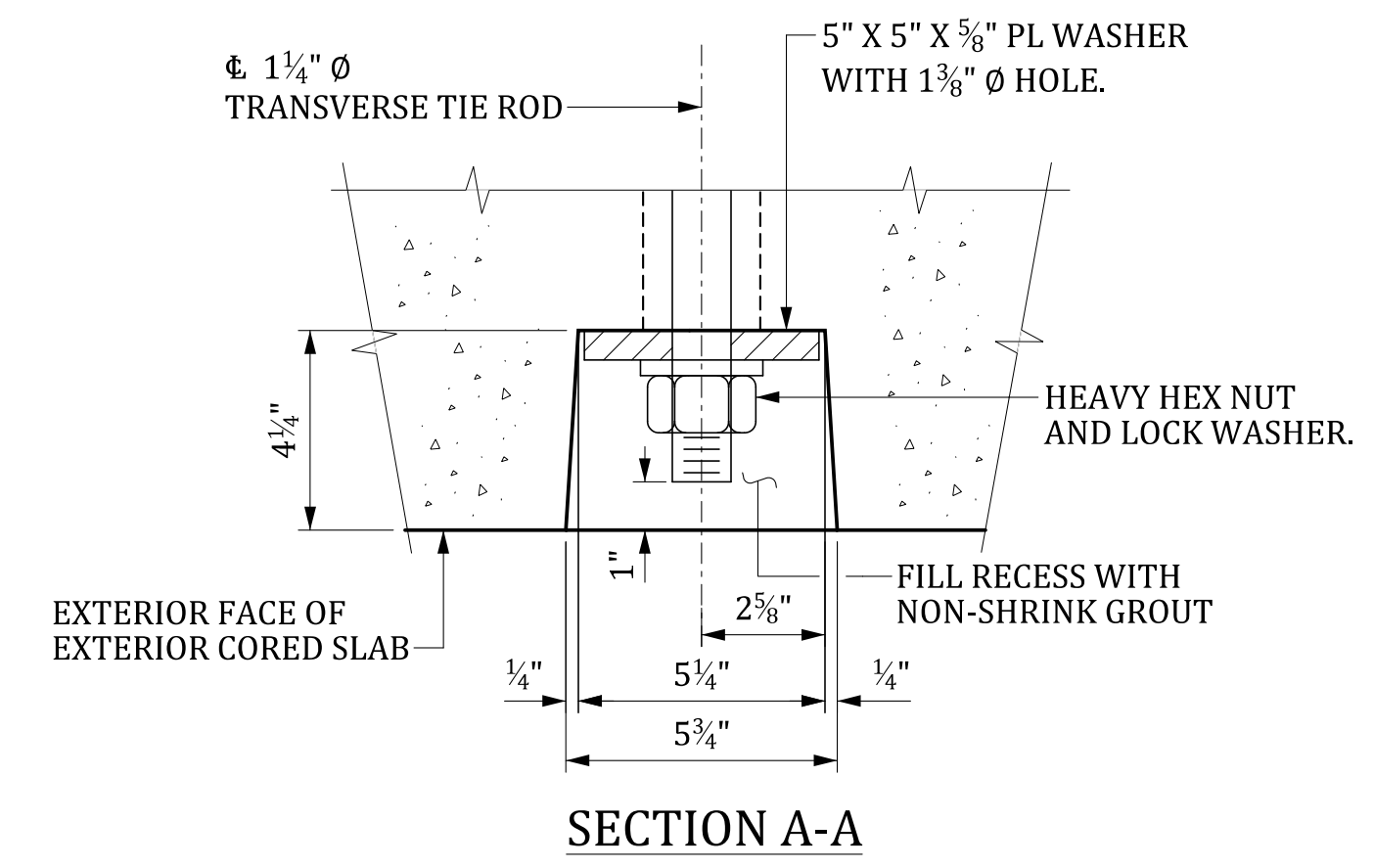
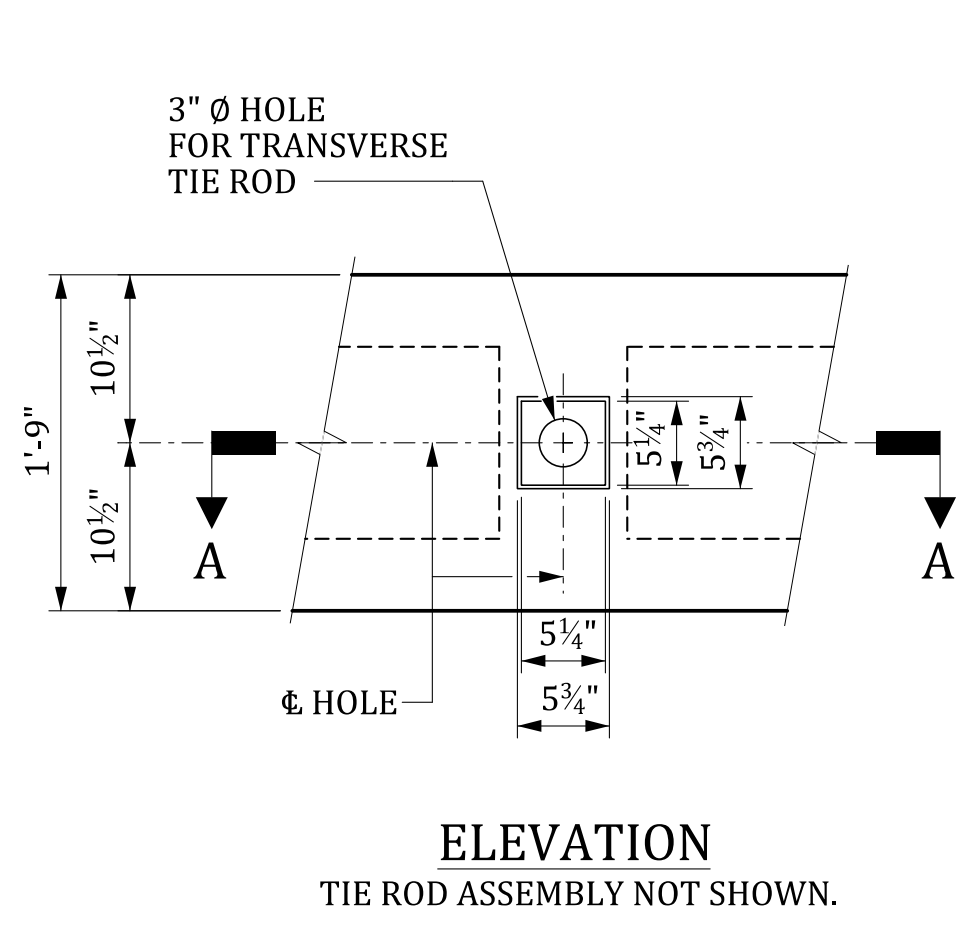
REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

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

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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.

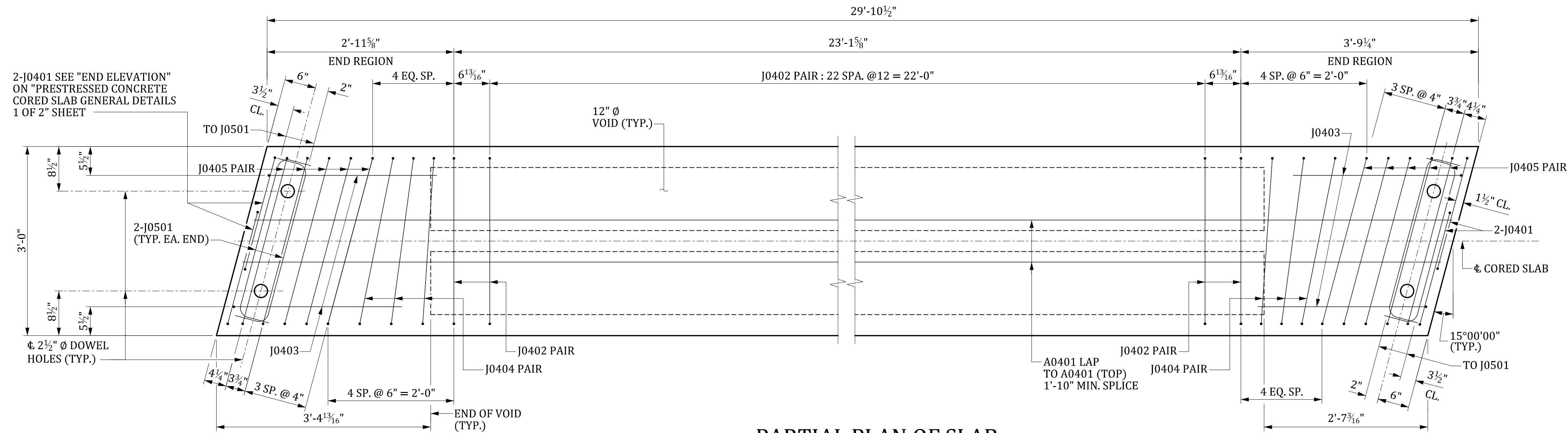
NOTE:
FOR DIAPHRAGM DIMENSIONS AND LAYOUT, SEE
"PRESTRESSED CONCRETE CORED SLAB 30' SPAN-PLAN" SHEET.
STIRRUPS AND VERTICAL BARRIER REINFORCEMENT
MAY BE SHIFTED SLIGHTLY TO CLEAR HOLES FOR TIE RODS.

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CONSULTANT NAME/LOGO	
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
PRESTRESSED CONCRETE CORED SLAB 30' SPAN DETAILS (0° SKEW)	
COUNTY: ####	ROUTE: ####

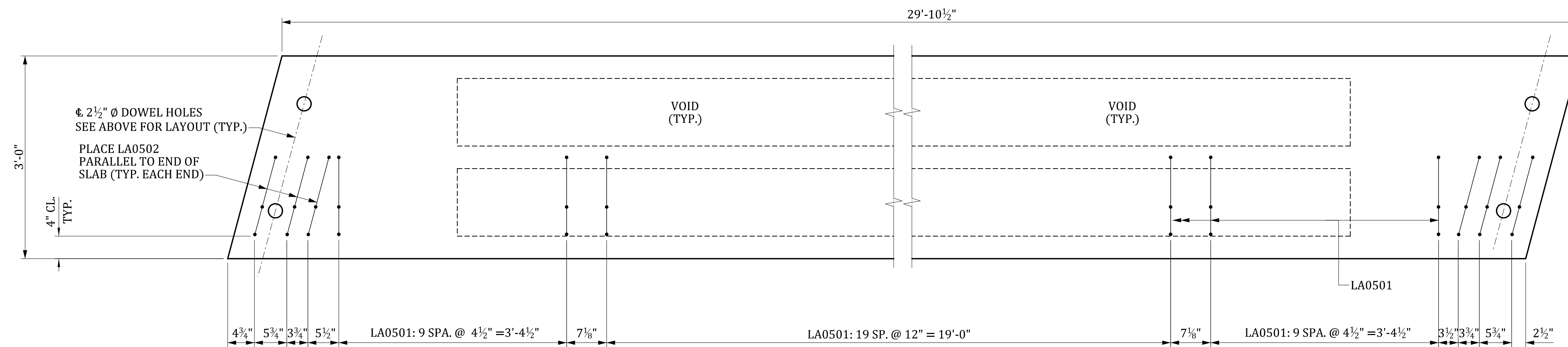
REVIEWED	QUAN.	CTM	GCM	05-23
DR.	CTM	MWB	05-23	
DES.	OP	DPP	09-23	
	BY	CHK.	DATE	

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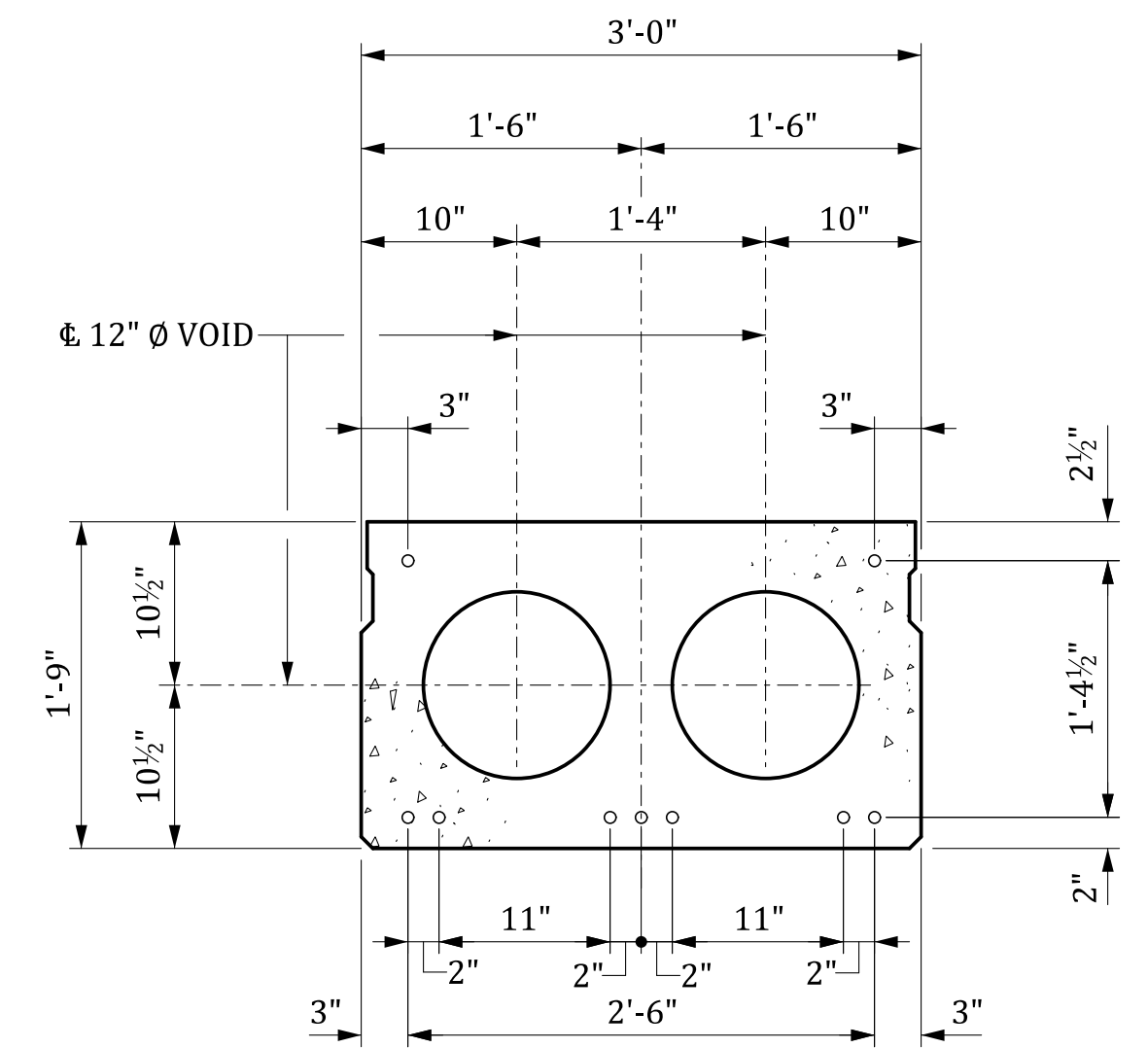
PARTIAL PLAN OF SLAB

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

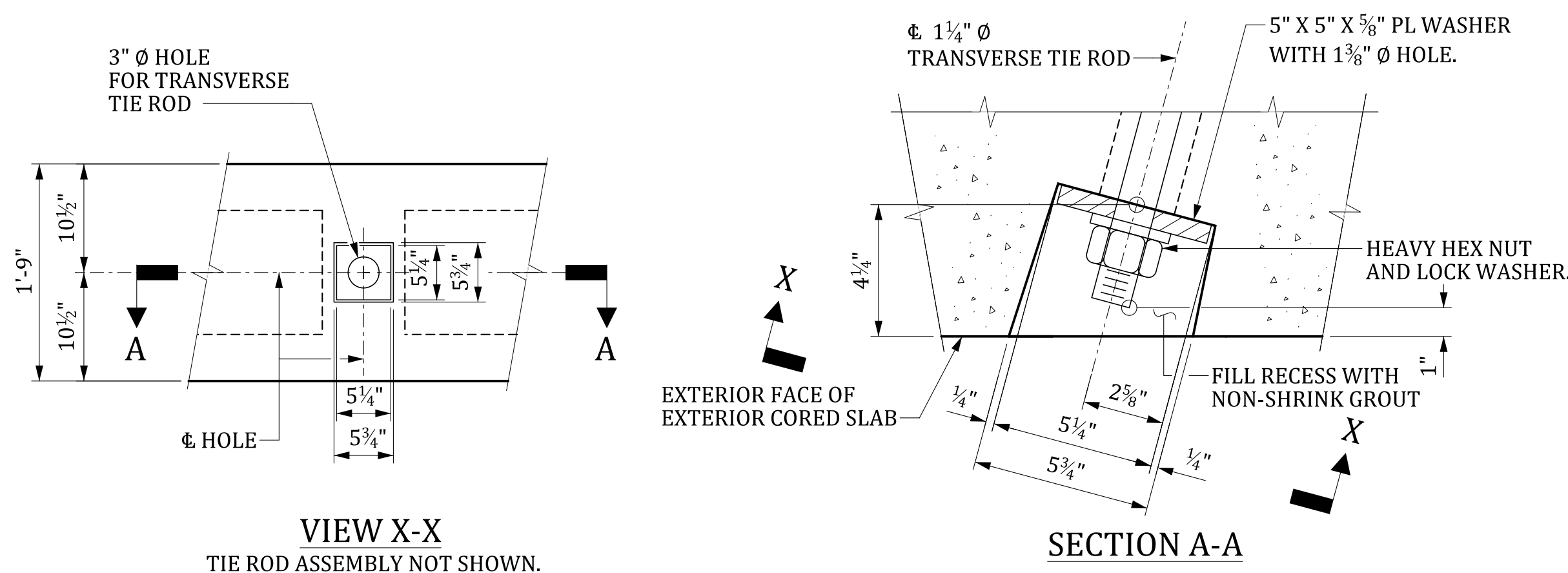
INTERIOR SLAB SHOWN - EXTERIOR SLAB SIMILAR EXCEPT SHEAR KEY LOCATION.

○ FULLY BONDED STRANDS

DESIGN DATA

STRANDS:
0.6" 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 30' 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
30' SPAN DETAILS
(+15° SKEW)

COUNTY: ####

ROUTE: ####

DRAWING NUMBER: 704-ACS.S030.SK015.D01

MBreeland 6/25/2024 5:21:18 PM 704_ACS_030.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	