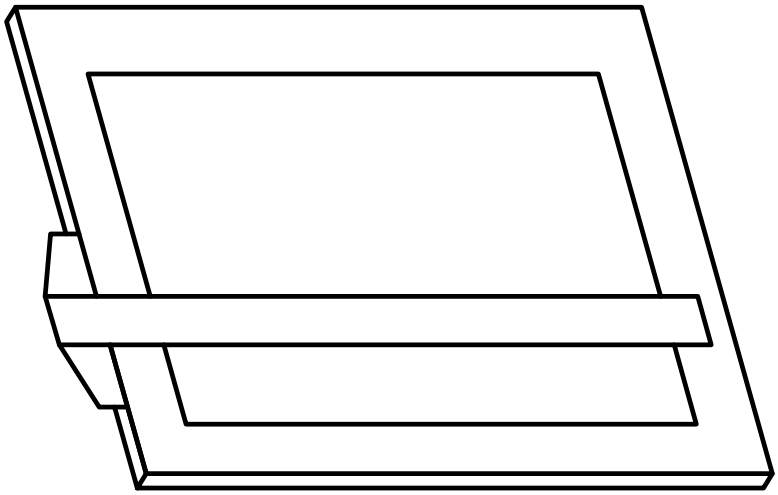
APPENDIX A

EXAMPLE TITLE SHEETS, BORDER, AND TABLES



TA

NEW YORK STATE THRUWAY AUTHORITY

TA

INDEX OF DRAWINGS		
DWG. NO.	TITLE OF DRAWING	SHT. NO.
X	X	X
X	X	X
X	X	X
X	X	X
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X	X	X
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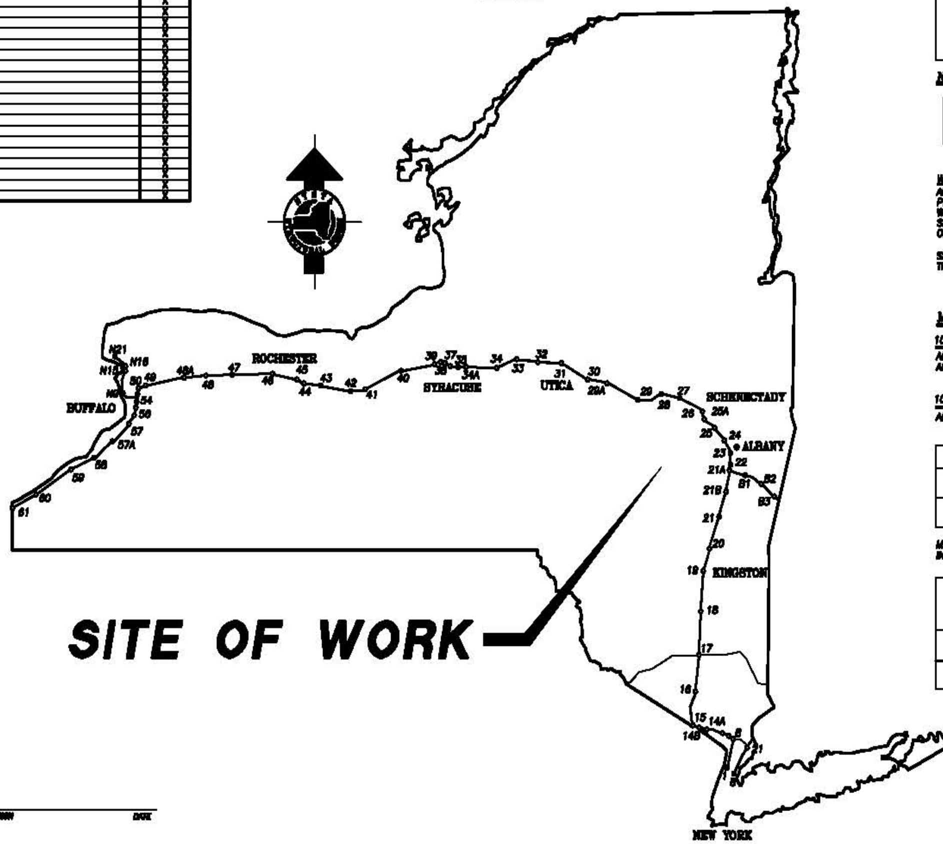
DIVISION
PLANS FOR THE
REMOVAL, REHABILITATION, CONSTRUCTION
OF THE
STRUCTURE OR
AT
MILEPOST XXX.XX
IN
ALBANY COUNTY

XXX SHEETS

TA__ 07-##B
BIN 1234567

DXXXXXX



TYPE OF CONSTRUCTION:
x

STANDARD SHEETS:
x

BRIDGE MAINTENANCE GUIDELINES

UPON COMPLETION OF THIS PROJECT, THE BRIDGE STRUCTURES REPAIRED, REHABILITATED OR RECONSTRUCTED HEREUNDER SHALL BE MAINTAINED IN ACCORDANCE WITH THE CURRENT AASHTO MANUAL FOR BRIDGE MAINTENANCE, AND THE NEW YORK STATE THRUWAY AUTHORITY MAINTENANCE DIRECTIVES:

BRIDGE MANAGEMENT PROGRAM MD 05-16, BRIDGE MANAGEMENT ACTIVITIES MD 05-3, AND BRIDGE INSPECTION PROGRAM MD 95-5.

SPECIAL MAINTENANCE REQUIREMENTS: NONE

NOTES:

place the one note that applies to contract.

WARNING: IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THESE PLANS IN ANY WAY. IF ALTERATIONS TO THESE PLANS ARE REQUIRED, THE ALTERATIONS SHALL BE MADE IN ACCORDANCE WITH ARTICLE 145 - SUBSECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

SIGNATURES HEREON HAVE BEEN AFFIXED BY PERSONS ACTING IN THEIR OFFICIAL CAPACITY AS INDICATED.

MAINTENANCE JURISDICTION

100% MUNICIPALITY
APPROACH GUIDE RAILING, APPROACH PAVEMENT, APPROACH SLAB AND SHOULDERS, WEARING COURSE AND BRIDGE FENCING.

100% AUTHORITY
ALL OTHER BRIDGE ELEMENTS NOT LISTED ABOVE.

LOAD RATING TABLE		
CONTROLLING MEMBER	INVENTORY LOAD RATING	OPERATING LOAD RATING
INTERIOR STRINGER	MS XX (XX METRIC TONS)	MS XX (XX METRIC TONS)

MS 23 LIVE LOADING - LOAD FACTOR ANALYSIS.
INCLUDES FUTURE WEARING COURSE OF 1.2 kN/m^2.

	WORK LIMIT		CONTRACT LIMIT	
			EQUALITY STA. (m)	
	FROM STA.	TO STA.	LEFT	RIGHT
X	X	X	X	X
X	X	X	X	X

TITLE SHEET - IN HOUSE BRIDGE PROJECTS

CONTRACTOR'S NAME: ....
AWARD DATE: ....
COMPLETION DATE: ....
FINAL ACCEPTANCE DATE: ....
INSPECTION FIRM'S NAME: ....
RESIDENT ENG./EIC: ....
FINAL COST TOTAL: ....

FISCAL SHARE	COST(S)

INSPECTION FIRM CONSULTANT STAMP:

RECOMMENDED BY:
DIRECTOR, OFFICE OF DESIGN — DATE

RECOMMENDED BY: DIVISION DIRECTOR — DATE
RECOMMENDED BY: TRAFFIC ENGINEER — DATE
RECOMMENDED BY: DIRECTOR, OFFICE OF CONSTRUCTION MANAGEMENT — DATE
RECOMMENDED BY: DIRECTOR OF MAINTENANCE AND OPERATIONS — DATE
APPROVED BY: CHIEF ENGINEER — DATE

REVIEWED BY
DIRECTOR, STRUCTURAL DESIGN BUREAU
PROJECT ENGINEER

TA

TA

NEW YORK STATE THRUWAY AUTHORITY

INDEX OF DRAWINGS		
DWG. NO.	TITLE OF DRAWING	SHT. NO.
X	X	X
X	X	X
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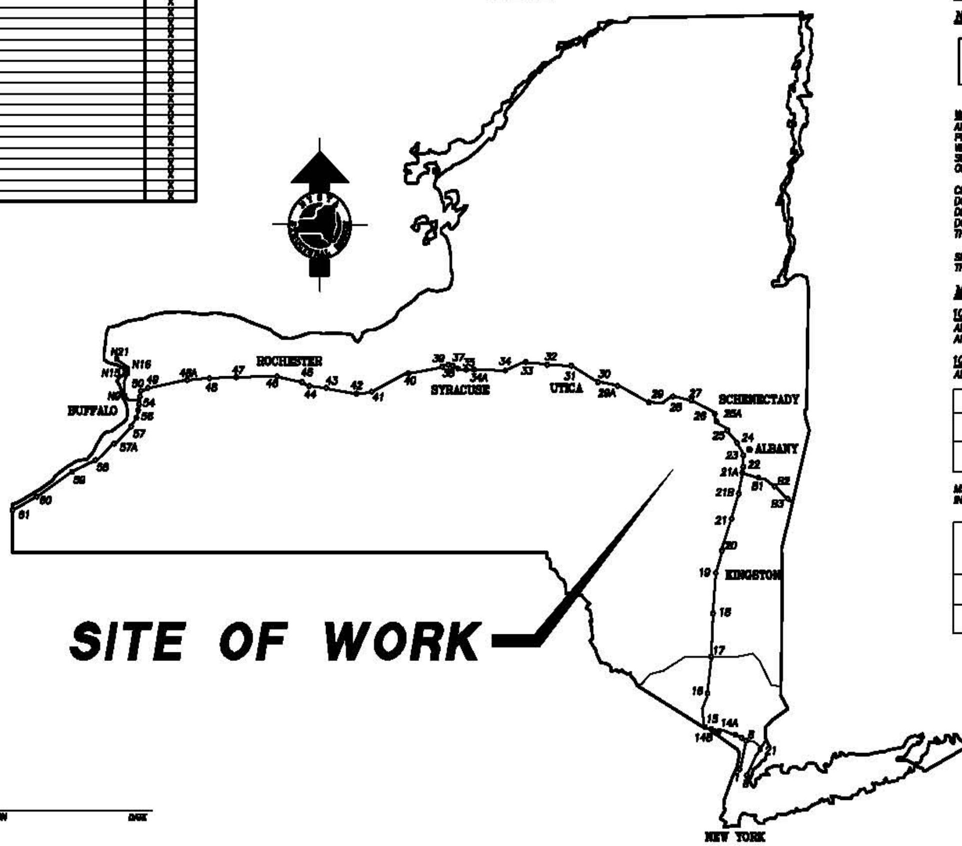
X	X	X
X	X	X

DIVISION
PLANS FOR THE
REMOVAL, REHABILITATION, CONSTRUCTION
OF THE
STRUCTURE OR
AT
MILEPOST XXX.XX
IN
ALBANY COUNTY

XXX SHEETS

TA__ 07-##B
BIN 1234567

DXXXXXX



TYPE OF CONSTRUCTION:
X

STANDARD SHEETS:
X

BRIDGE MAINTENANCE GUIDELINES

UPON COMPLETION OF THIS PROJECT, THE BRIDGE STRUCTURES REPAIRED, REHABILITATED OR RECONSTRUCTED HEREUNDER SHALL BE MAINTAINED IN ACCORDANCE WITH THE CURRENT AASHTO MANUAL FOR BRIDGE MAINTENANCE, AND THE NEW YORK STATE THRUWAY AUTHORITY MAINTENANCE DIRECTIVES:

BRIDGE MANAGEMENT PROGRAM MD 05-18, BRIDGE MANAGEMENT ACTIVITIES MD 05-3, AND BRIDGE INSPECTION PROGRAM MD 95-5.

SPECIAL MAINTENANCE REQUIREMENTS: NONE

NOTES:

place the one note that applies to contract.

WARNING: IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THESE PLANS IN ANY WAY. IF ALTERATIONS TO THESE PLANS ARE REQUIRED, THE ALTERATIONS SHALL BE MADE IN ACCORDANCE WITH ARTICLE 145 - SUBSECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

CHANGES MADE, IF ANY, TO THESE PLANS AND RELATED CONTRACT DOCUMENTS SINCE COMPLETION BY THE CONSULTING ENGINEER MAY BE DETERMINED BY COMPARISON WITH SUCH PREFINAL PLANS AND RELATED DOCUMENTS FILED AT THE THRUWAY DESIGN OFFICE OR THOSE FILED AT THE OFFICE OF THE CONSULTING ENGINEER.

SIGNATURES HEREON HAVE BEEN AFFIXED BY PERSONS ACTING IN THEIR OFFICIAL CAPACITY AS INDICATED.

MAINTENANCE JURISDICTION

100% MUNICIPALITY
APPROACH GUIDE RAILING, APPROACH PAVEMENT, APPROACH SLAB AND SHOULDERS, WEARING COURSE AND BRIDGE FENCING.

100% AUTHORITY
ALL OTHER BRIDGE ELEMENTS NOT LISTED ABOVE.

LOAD RATING TABLE		
CONTROLLING MEMBER	INVENTORY LOAD RATING	OPERATING LOAD RATING
INTERIOR STRINGER	MS XX (XX METRIC TONS)	MS XX (XX METRIC TONS)

MS 23 LIVE LOADING - LOAD FACTOR ANALYSIS.
INCLUDES FUTURE WEARING COURSE OF 1.2 kN/m^2.

	WORK LIMIT		CONTRACT LIMIT	
			EQUALITY STA. (m)	
	FROM STA.	TO STA.	LEFT	RIGHT
X	X	X	X	X
X	X	X	X	X

TITLE SHEET - CONSULTANT PROJECT

TA

REVIEWED BY

DIRECTOR, STRUCTURAL DESIGN BUREAU

CONSULTANT PROJECT ENGINEER

CONTRACTOR'S NAME: ....
AWARD DATE: ....
COMPLETION DATE: ....
FINAL ACCEPTANCE DATE: ....
INSPECTION FIRM'S NAME: ....
RESIDENT ENG./EIC: ....
FINAL COST TOTAL: ....

FISCAL SHARE	COST($)

INSPECTION FIRM CONSULTANT STAMP:

RECOMMENDED BY:
DIRECTOR, OFFICE OF DESIGN — DATE

RECOMMENDED BY:
DIVISION DIRECTOR — DATE

RECOMMENDED BY:
TRAFFIC ENGINEER — DATE

RECOMMENDED BY:
DIRECTOR, OFFICE OF CONSTRUCTION MANAGEMENT — DATE

RECOMMENDED BY:
DIRECTOR OF MAINTENANCE AND OPERATIONS — DATE

APPROVED BY:
CHIEF ENGINEER — DATE

PREPARED BY:
CONSULTANT LOGO:

SIGNATURE:
CONSULTANT STAMP:

TA

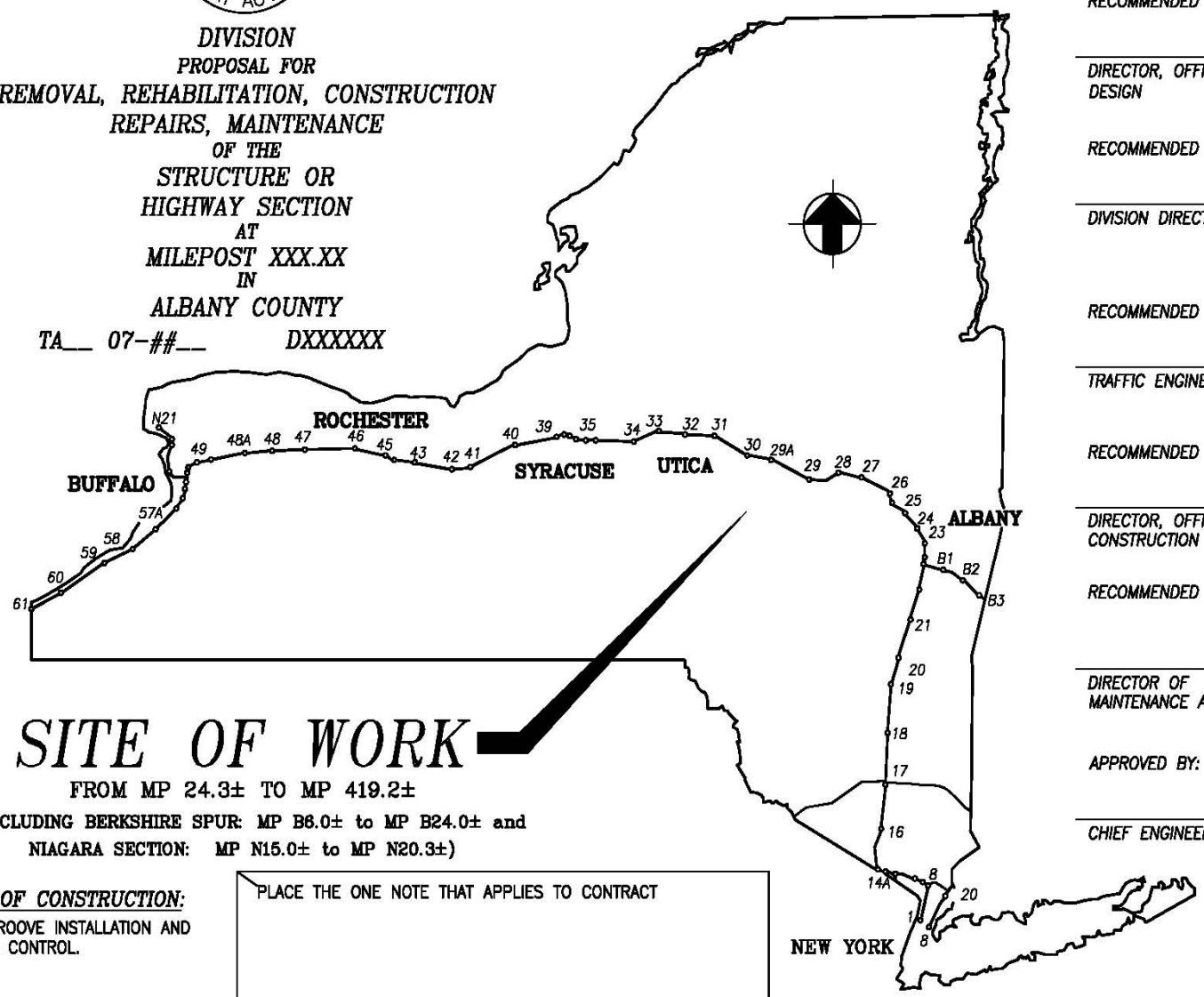
TITLE SHEET FOR "PROPOSAL ONLY" PROJECT

TA_NUMBER

NEW YORK STATE THRUWAY AUTHORITY

DIVISION
PROPOSAL FOR
REMOVAL, REHABILITATION, CONSTRUCTION
REPAIRS, MAINTENANCE
OF THE
STRUCTURE OR
HIGHWAY SECTION
AT
MILEPOST XXX.XX
IN
ALBANY COUNTY

TA__ 07-##__ DXXXXXX



SITE OF WORK

FROM MP 24.3± TO MP 419.2±

(INCLUDING BERKSHIRE SPUR: MP B6.0± to MP B24.0± and
NIAGARA SECTION: MP N15.0± to MP N20.3±)

TYPE OF CONSTRUCTION:
STAR GROOVE INSTALLATION AND TRAFFIC CONTROL.

PLACE THE ONE NOTE THAT APPLIES TO CONTRACT

RECOMMENDED BY:

DIRECTOR, OFFICE OF DESIGN — DATE

RECOMMENDED BY:

DIVISION DIRECTOR — DATE

RECOMMENDED BY:

TRAFFIC ENGINEER — DATE

RECOMMENDED BY:

DIRECTOR, OFFICE OF CONSTRUCTION MANAGEMENT — DATE

RECOMMENDED BY:

DIRECTOR OF MAINTENANCE AND OPERATIONS — DATE

APPROVED BY:

CHIEF ENGINEER — DATE

TA_NUMBER

PROJECT MANAGER: _____ THRUWAY AUTHORITY PROGRAM DIRECTOR: _____ REVIEWED BY: _____

TYPICAL PLAN SHEET BORDER

ESTIMATE OF QUANTITIES

ESTIMATE OF QUANTITIES

ITEM		DESCRIPTION	UNIT	ESTIMATE	FINAL
201.07	E	CLEARING AND GRUBBING	ACRE	1	
25202.0821	E	REMOVAL AND DISPOSAL OF MISCELLANEOUS ASBESTOS CONTAINING MATERIAL (BRIDGES) FIXED PRICE LUMP SUM	LS	NEC	
202.1200001E		REMOVING EXISTING SUPERSTRUCTURES	LS	NEC	
202.19	E	REMOVAL OF SUBSTRUCTURES	CY	550	
203.02	E	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	5800	
203.03	E	EMBANKMENT IN PLACE	CY	9349	
203.19	E	CLEANING DRAINAGE STRUCTURES AND MANHOLES	EACH	2	
203.21	E	SELECT STRUCTURE FILL	CY	3250	
206.01	E	STRUCTURE EXCAVATION	CY	11190	
206.02	E	TRENCH AND CULVERT EXCAVATION	CY	160	
206.05	E	TEST PIT EXCAVATION	EACH	4	
207.20	E	GEOTEXILE BEDDING	SY	120	
207.22	E	GEOTEXILE DRAINAGE	SY	180	
207.26	E	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	727	
209.13	E	SILT FENCE-TEMPORARY	LF	4300	
209.1702	E	DRAINAGE STRUCTURE INLET PROTECTION, GRAVEL BAG – TEMPORARY	CY	2	
211.10	E	GROUTED TIEBACKS (TEMP)	EACH	7	
304.12	E	SUBBASE COURSE, TYPE 2	CY	3224	
402.098201E		9.5 F2 TOP COURSE HMA, 80 SERIES COMPACTION	TON	661	
402.098211E		PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.098201	QU	33	
402.098901E		9.5 F9 TOP COURSE HMA, SHOULDER COURSE, 80 SERIES COMPACTION	TON	156	
402.098911E		PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.098901	QU	9	
402.126301E		12.5 F3 TOP COURSE HMA, 80 SERIES COMPACTION	TON	40	
402.126311E		PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.126301	QU	2	
402.199901E		19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	1019	
402.199911E		PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.199901	QU	51	
402.379901E		37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	TON	3707	
402.379911E		PLANT PRODUCTION QUALITY ADJUSTMENT 402.379901	QU	190	
407.0101	E	TACK COAT	GAL	825	
490.30	E	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	425	
09520.5014	E	SAW CUTTING, ASPHALT PAVEMENT, ASPHALT SURFACE COURSE, CONCRETE PAVEMENT OR ASPHALT OVERLAY ON CONCRETE PAVEMENT	LF	400	
17551.046001E		HOLES IN EARTH FOR SOLDIER PILE AND LAGGING WALL	LF	1391	
17551.046201E		INSTALLING SOLDIER PILES FOR SOLDIER PILE AND LAGGING WALL	LF	1422	
17551.046301E		INSTALLING LAGGING FOR SOLDIER PILE AND LAGGING WALL	SF	3230	
552.16	E	EXCAVATION PROTECTION SYSTEM	SF	400	
554.3001	E	GEOSYNTHETIC REINFORCED EARTH SYSTEM WALL WELDED WIRE FORMS	SF	2439	
556.09	E	CONCRETE FOR STRUCTURES, CLASS HP	CY	1700	
556.0203	E	GALVANIZED BAR REINFORCEMENT FOR STRUCTURES	LB	191100	
556.03	E	STUD SHEAR CONNECTORS FOR BRIDGES	EACH	3024	
557.0109	E	SUPERSTRUCTURE SLAB WITH INTEGRAL WEARING SURFACE – BOTTOM FORMWORK REQUIRED – TYPE B FRICTION	SY	1124	
557.2009	E	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE –TYPE B FRICTION	SY	460	

ESTIMATE OF QUANTITIES

ITEM		DESCRIPTION	UNIT	ESTIMATE	FINAL
557.30	E	SIDEWALKS AND SAFETY WALKS	SY	483	
558.02	E	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE	SY	1114	
18559.189600E		PROTECTIVE SEALING OF STRUCTURAL CONCRETE	SY	1105	
18559.189900E		PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS	SY	2100	
564.510001E		STRUCTURAL STEEL	LB	475000	
563.1622	E	TYPE M.R. EXPANSION BEARING (226 TO 450 KIPS)	EACH	12	
563.1724	E	TYPE M.R. FIXED BEARING (676 TO 900 KIPS)	EACH	6	
25567.2099	E	PREFORMED SILICONE JOINT SEALING SYSTEM	LF	63	
568.70	E	TRANSITION BRIDGE RAILING	LF	135	
569.03	E	VERTICAL FACED CONCRETE PARAPET	LF	470	
570.090001E		ENVIRONMENTAL GROUND PROTECTION	LS	NEC	
25570.759101E		TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	LS	NEC	
580.01	E	REMOVAL OF STRUCTURAL CONCRETE	CY	14	
25580.900304E		PARTIAL DEPTH REMOVAL OF STRUCT SLAB AND REPLACEMENT WITH CLASS D CONCRETE	SF	4100	
25580.510303E		FULL DEPTH REMOVAL OF STRUCTURAL SLAB AND REPLACEMENT WITH C	SF	1200	
25585.010101E		STRUCTURAL LIFTING AND SHORING, TYPE A	EACH	3	
588.03	E	DRILLING AND GROUTING BOLTS OR REINFORCING BARS WITH PULLOUT TESTS	EACH	500	
587.20	E	THRIE BEAM BRIDGE RAIL – ATTACHMENT TO EXISTING BRIDGE RAIL	LF	315	
605.0901	E	UNDERDRAIN FILTER TYPE 1	CY	30	
605.1701	E	OPTIONAL UNDERDRAIN PIPE, 4 INCH DIAMETER	LF	255	
606.10	E	BOX BEAM GUIDE RAILING	LF	1554	
606.100001E		BOX BEAM GUIDE RAILING (SHOP CURVED)	LF	266	
606.1201	E	BOX BEAM GUIDE RAIL END ASSEMBLY, TYPE I	EACH	4	
606.17	E	CORRUGATED BEAM MEDIAN BARRIER	LF	375	
606.18	E	MODIFIED C2 WEAK-POST, CORRUGATED BEAM GUIDE RAIL	LF	975	
606.22	E	ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING	EACH	1	
606.33	E	HEAVY POST BLOCKED-OUT CORRUGATED BEAM MEDIAN BARRIER	LF	50	
15606.46	E	CRASH-CUSHION ATTENUATING TERMINAL CAT 350 * ON FEDERAL AID PROJECTS CONTRACTOR MAY BID ITEM 15606.31	EACH	1	
606.71	E	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF	1800	
606.72	E	REMOVING AND DISPOSING CORRUGATED BEAM MEDIAN BARRIER	LF	563	
606.73	E	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING	LF	474	
606.7510	E	REMOVING AND DISPOSING CONCRETE BARRIER – HALF SECTION	LF	251	
606.7910	E	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER	EACH	4	
606.7920	E	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING END ASSEMBLY	EACH	4	
25606.8103	E	REMOVE AND DISPOSE GUIDE RAIL TRANSITION CORRUGATED BEAM TO BOX BEAM (ONE OR TWO WAY OPERATION) INCLUDING TRANS ANCHORAG	EACH	2	
606.86	E	GUIDE RAIL TRANSITION CORRUGATED BEAM TO THRIE BEAM	EACH	2	
606.9601	E	MEDIAN BARRIER TRANSITION WEAK-POST CORRUGATED BEAM TO HEAVY POST BLOCKED-OUT CORRUGATED BEAM	EACH	1	
25607.0811	E	PROTECTIVE SCREENING– BRIDGES	LF	462	
607.19	E	RIGHT-OF-WAY FENCING	LF	927	
25607.1901	E	REMOVING RIGHT OF WAY FENCE	LF	293	
03907.6072	E	TEMPORARY PEDESTRIAN FENCING FOR BRIDGES	LF	920	

7/138

DATE	DESCRIPTION	BY	BTA

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT: BRIDGE REPLACEMENT

LOCATION OF PROJECT: COLD SPRINGS ROAD MP 296.56 RTE 370 OVER THRUWAY

TITLE OF DRAWING: ESTIMATE OF QUANTITIES (1 OF 2)

CONTRACT NUMBER: TAS 09-14B

DATE: 5/28/09

DRAWING NUMBER: 7

MOMENT AND SHEAR TABLE

			SPAN NO. 1																													
			℄ BRG. @ ABUT.#1	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ PIER 1	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ PIER 2	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ BRG. @ ABUT.#2
GIRDER G1	DL	MOMENT																														
		SHEAR																														
	SDL	MOMENT																														
		SHEAR																														
	LL (+)	MOMENT																														
		SHEAR																														
	LL (−)	MOMENT																														
		SHEAR																														
GIRDER G2	DL	MOMENT																														
		SHEAR																														
	SDL	MOMENT																														
		SHEAR																														
	LL (+)	MOMENT																														
		SHEAR																														
	LL (−)	MOMENT																														
		SHEAR																														
GIRDER G3	DL	MOMENT																														
		SHEAR																														
	SDL	MOMENT																														
		SHEAR																														
	LL (+)	MOMENT																														
		SHEAR																														
	LL (−)	MOMENT																														
		SHEAR																														
GIRDER G4	DL	MOMENT																														
		SHEAR																														
	SDL	MOMENT																														
		SHEAR																														
	LL (+)	MOMENT																														
		SHEAR																														
	LL (−)	MOMENT																														
		SHEAR																														
GIRDER G5	DL	MOMENT																														
		SHEAR																														
	SDL	MOMENT																														
		SHEAR																														
	LL (+)	MOMENT																														
		SHEAR																														
	LL (−)	MOMENT																														
		SHEAR																														
GIRDER G6	DL	MOMENT																														
		SHEAR																														
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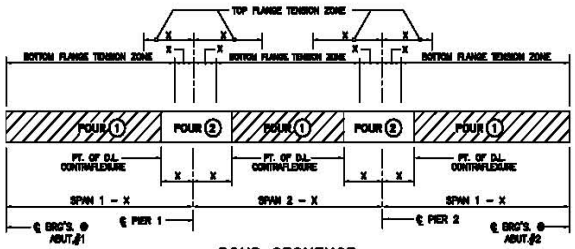
		SHEAR																														
	LL (+)	MOMENT																														
		SHEAR																														
	LL (−)	MOMENT																														
		SHEAR																														
GIRDER G7	DL	MOMENT																														
		SHEAR																														
	SDL	MOMENT																														
		SHEAR																														
	LL (+)	MOMENT																														
		SHEAR																														
	LL (−)	MOMENT																														
		SHEAR																														
GIRDER G8	DL	MOMENT																														
		SHEAR																														
	SDL	MOMENT																														
		SHEAR																														
	LL (+)	MOMENT																														
		SHEAR																														
	LL (−)	MOMENT																														
		SHEAR																														

THE VALUES OF MOMENT ARE EXPRESSED IN FOOT-KIPS.
THE VALUES OF SHEAR ARE EXPRESSED IN KIPS.



POUR SEQUENCE
N.T.S.

DESIGN LOAD TABLE (kips/ft)		GIRDER							
		G1	G2	G3	G4	G5	G6	G7	G8
DEAD LOAD	SLAB								
	HAUNCH								
	GIRDER								
	DIAPHRAGMS								
	S.I.P. FORMS								
	TOTAL								
S.D.L.	CONCRETE BARRIER								
	FUTURE W.S.								
	TOTAL								
L.L.	AASHTO HL LOADING								

DATE	DESCRIPTION	BY	BTA

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 WASHINGTON AVE., ALBANY, N.Y. 12203

TITLE OF PROJECT
TITLE OF PROJECT LINE 1
TITLE OF PROJECT LINE 2

LOCATION OF PROJECT
LOCATION OF PROJECT LINE 1
LOCATION OF PROJECT LINE 2

TITLE OF DRAWING
SHEAR MOMENT AND LOAD TABLES & DECK POUR SEQUENCE

CONTRACT NUMBER
TA

DATE
9/09

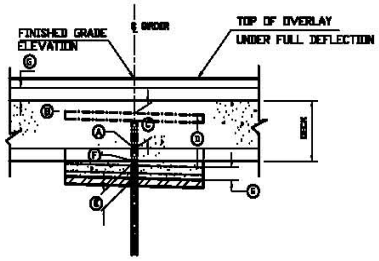
DRAWING NUMBER:
*

HAUNCH TABLE - NEW STEEL ONLY

HAUNCH TABLE

HAUNCH TABLE		SPAN A										SPAN B										SPAN C									
		℄ BRGS. SOUTH ABUTMENT	0.1L1	0.2L1	0.3L1	0.4L1	0.5L1	0.6L1	0.7L1	0.8L1	0.9L	℄ BRGS. PIER 1	0.1L1	0.2L1	0.3L1	0.4L1	0.5L1	0.6L1	0.7L1	0.8L1	0.9L	℄ BRGS. PIER 2	0.1L1	0.2L1	0.3L1	0.4L1	0.5L1	0.6L1	0.7L1	0.8L1	0.9L1	℄ BRGS. EAST ABUTMENT
GIRDER 1	Ⓐ HAUNCH DIM. OF SLAB BLKG. AFTER DECK POUR																														
	Ⓑ TOP OF DECK ELEV. (FIELD MEASURE PRIOR TO DECK POUR)																														
	Ⓒ = Ⓐ - Ⓑ (+)																														
	Ⓓ NOMIN. NON-COMPOSITE D.L. DEFL. (+)																														
	Ⓔ DEPTH OF HAUNCH DIM. = Ⓒ+Ⓓ(+)																														
	Ⓕ REQUIRED DEPTH OF SLAB BLKG. AFTER DECK POUR (FIELD MEASURE)																														
	Ⓖ DECK ELEVATION DEFICIT = Ⓕ - Ⓔ (+)																														
GIRDER 2	Ⓐ HAUNCH DIM. OF SLAB BLKG. AFTER DECK POUR																														
	Ⓑ TOP OF DECK ELEV. (FIELD MEASURE PRIOR TO DECK POUR)																														
	Ⓒ = Ⓐ - Ⓑ (+)																														
	Ⓓ NOMIN. NON-COMPOSITE D.L. DEFL. (+)																														
	Ⓔ DEPTH OF HAUNCH DIM. = Ⓒ+Ⓓ(+)																														
	Ⓕ REQUIRED DEPTH OF SLAB BLKG. AFTER DECK POUR (FIELD MEASURE)																														
	Ⓖ DECK ELEVATION DEFICIT = Ⓕ - Ⓔ (+)																														
GIRDER 3	Ⓐ HAUNCH DIM. OF SLAB BLKG. AFTER DECK POUR																														
	Ⓑ TOP OF DECK ELEV. (FIELD MEASURE PRIOR TO DECK POUR)																														
	Ⓒ = Ⓐ - Ⓑ (+)																														
	Ⓓ NOMIN. NON-COMPOSITE D.L. DEFL. (+)																														
	Ⓔ DEPTH OF HAUNCH DIM. = Ⓒ+Ⓓ(+)																														
	Ⓕ REQUIRED DEPTH OF SLAB BLKG. AFTER DECK POUR (FIELD MEASURE)																														
	Ⓖ DECK ELEVATION DEFICIT = Ⓕ - Ⓔ (+)																														
GIRDER 4	Ⓐ HAUNCH DIM. OF SLAB BLKG. AFTER DECK POUR																														
	Ⓑ TOP OF DECK ELEV. (FIELD MEASURE PRIOR TO DECK POUR)																														
	Ⓒ = Ⓐ - Ⓑ (+)																														
	Ⓓ NOMIN. NON-COMPOSITE D.L. DEFL. (+)																														
	Ⓔ DEPTH OF HAUNCH DIM. = Ⓒ+Ⓓ(+)																														
	Ⓕ REQUIRED DEPTH OF SLAB BLKG. AFTER DECK POUR (FIELD MEASURE)																														
	Ⓖ DECK ELEVATION DEFICIT = Ⓕ - Ⓔ (+)																														
GIRDER 5	Ⓐ HAUNCH DIM. OF SLAB BLKG. AFTER DECK POUR																														
	Ⓑ TOP OF DECK ELEV. (FIELD MEASURE PRIOR TO DECK POUR)																														
	Ⓒ = Ⓐ - Ⓑ (+)																														
	Ⓓ NOMIN. NON-COMPOSITE D.L. DEFL. (+)																														
	Ⓔ DEPTH OF HAUNCH DIM. = Ⓒ+Ⓓ(+)																														
	Ⓕ REQUIRED DEPTH OF SLAB BLKG. AFTER DECK POUR (FIELD MEASURE)																														
	Ⓖ DECK ELEVATION DEFICIT = Ⓕ - Ⓔ (+)																														
GIRDER 6	Ⓐ HAUNCH DIM. OF SLAB BLKG. AFTER DECK POUR																														
	Ⓑ TOP OF DECK ELEV. (FIELD MEASURE PRIOR TO DECK POUR)																														
	Ⓒ = Ⓐ - Ⓑ (+)																														
	Ⓓ NOMIN. NON-COMPOSITE D.L. DEFL. (+)																														
	Ⓔ DEPTH OF HAUNCH DIM. = Ⓒ+Ⓓ(+)																														
	Ⓕ REQUIRED DEPTH OF SLAB BLKG. AFTER DECK POUR (FIELD MEASURE)																														
	Ⓖ DECK ELEVATION DEFICIT = Ⓕ - Ⓔ (+)																														
GIRDER 7	Ⓐ HAUNCH DIM. OF SLAB BLKG. AFTER DECK POUR																														
	Ⓑ TOP OF DECK ELEV. (FIELD MEASURE PRIOR TO DECK POUR)																														
	Ⓒ = Ⓐ - Ⓑ (+)																														
	Ⓓ NOMIN. NON-COMPOSITE D.L. DEFL. (+)																														
	Ⓔ DEPTH OF HAUNCH DIM. = Ⓒ+Ⓓ(+)																														
	Ⓕ REQUIRED DEPTH OF SLAB BLKG. AFTER DECK POUR (FIELD MEASURE)																														
	Ⓖ DECK ELEVATION DEFICIT = Ⓕ - Ⓔ (+)																														

NOTE: ALL DIMENSIONS ARE IN FEET.



GIRDER HAUNCH DETAIL

N.T.S.

LEGEND

- INITIAL POSITION (BEAM D.L. ONLY)
- INTERMEDIATE POSITION (BEAM + DECK D.L.)
- FINAL POSITION (TOTAL D.L. + S.D.L.)

NOTES:

1. Ⓐ & Ⓕ TAKEN AT ℄ OF GIRDER.
2. Ⓔ – GIRDER HAUNCH, IS TAKEN AT ℄ OF GIRDER.

DATE	DESCRIPTION	BY	BTA

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
TITLE OF PROJECT LINE 1
TITLE OF PROJECT LINE 2

LOCATION OF PROJECT
LOCATION OF PROJECT LINE 1
LOCATION OF PROJECT LINE 2

TITLE OF DRAWING
GIRDER HAUNCH TABLE

CONTRACT NUMBER: TA

DATE: 9/09

DRAWING NUMBER: 9

HAUNCH TABLE - EXISTING STEEL ONLY

HAUNCH TABLE

		SPAN A											SPAN B											SPAN C										
		℄ BRGS. SOUTH ABUTMENT	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 1 ℄ BRGS.	℄ BRGS.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 1 ℄ BRGS.	℄ BRGS.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	℄ BRGS. NORTH ABUTMENT
GIRDER 1	A																																		
	B																																		
	C																																		
	D																																		
	E																																		
	F																																		
	G																																		
	H																																		
	K																																		
	L																																		
GIRDER 2	A																																		
	B																																		
	C																																		
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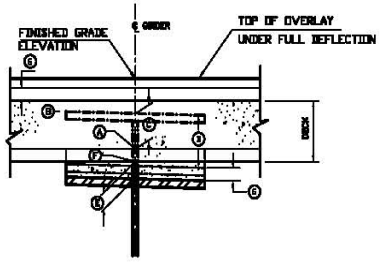
	L																																		

NOTE: ALL DIMENSIONS ARE IN FEET.

DEFINITIONS

A = REQUIRED BOTTOM OF SLAB ELEVATION AFTER DECK POUR.
B = TOP OF STEEL ELEVATION (FIELD MEASURE PRIOR TO DECK POUR).
C = A – B (ft)
D = CONCRETE NON-COMPOSITE D.L. DEFLECTION (ft)
E = REQUIRED DEPTH OF HAUNCH = C + D (ft)
F = REQUIRED BOTTOM OF SLAB ELEVATION AFTER S.D.L. APPLICATION.
G = DECK SURFACE CAMBER A – F (ft) ABOVE PROPOSED GRADE (S.D.L. DEFLECTION).
H = TOP OF EXISTING STEEL ELEVATION (AFTER DECK REMOVAL)
K = TOP OF EXISTING STEEL ELEVATION (BEFORE DECK REMOVAL)
L = ACTUAL GIRDER REBOUND H–K (ft.)

REQUIRED DEPTH OF HAUNCH MAY NEED TO BE MODIFIED IF ACTUAL GIRDER REBOUND "L" DIFFERS FROM THAT ASSUMED DURING DESIGN.



GIRDER HAUNCH DETAIL

N.T.S.

LEGEND

- INITIAL POSITION (BEAM D.L. ONLY)
- INTERMEDIATE POSITION (BEAM + DECK D.L.)
- FINAL POSITION (TOTAL D.L. + S.D.L.)

NOTES:

1. (A) & (F) TAKEN AT CL OF GIRDER.
2. (G) – GIRDER HAUNCH, IS TAKEN AT CL OF GIRDER.

DATE	DESCRIPTION	BY	SYM.

APPROVED

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
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LOCATION OF PROJECT
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TITLE OF DRAWING
GIRDER HAUNCH TABLE

CONTRACT NUMBER: TA
DATE: 9/09
DRAWING NUMBER: *