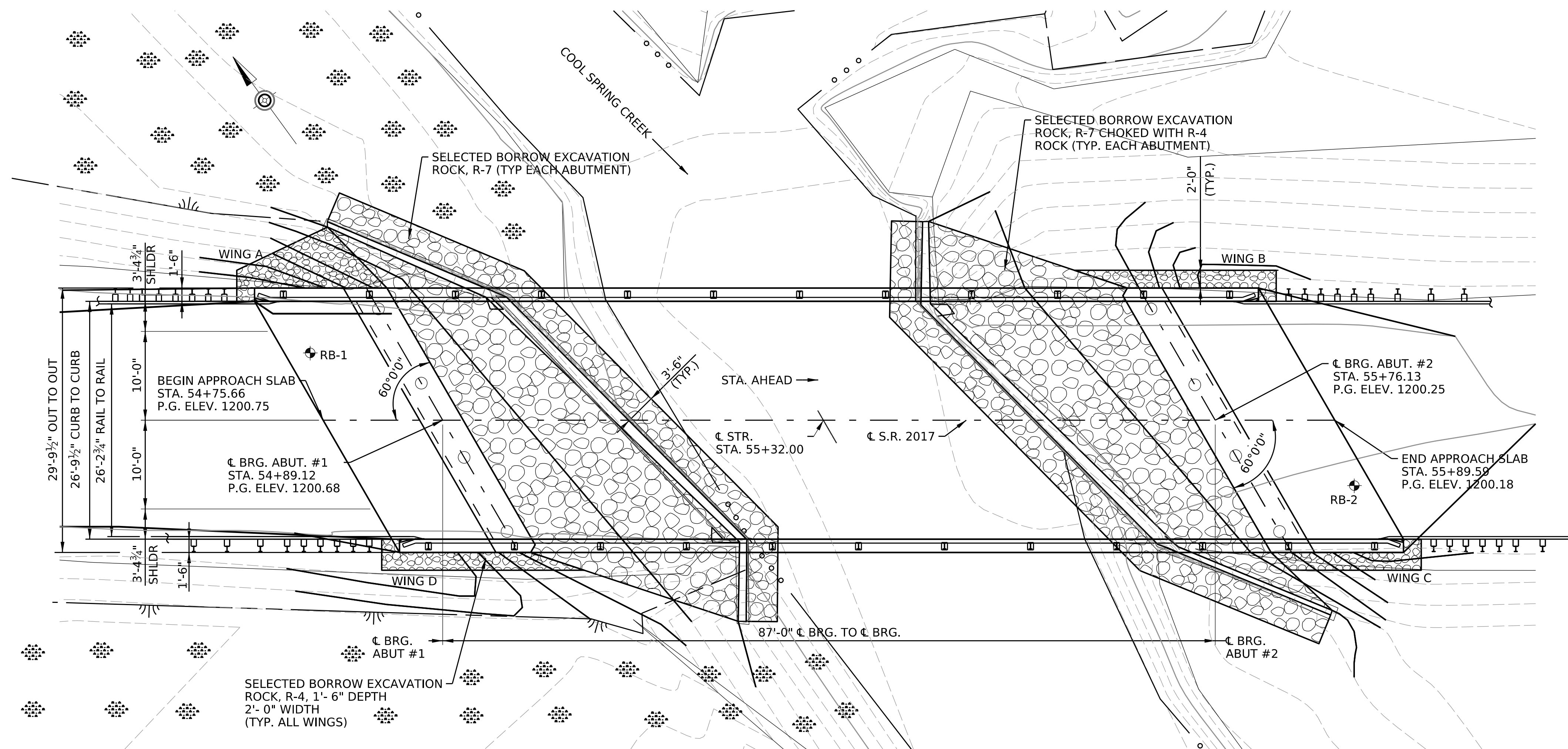


OPERATOR: maspowders
 FILE NAME: pw://PDEDPRAPPW01.penn.dot.ctb:Connect_P\Projects\Documents\OpenRoads_Projects\01\43-Mercer\43 2017 B00 (1861)\DESIGN\Bridge 43-2017-0070-1422\CADD Files\43 2017 B00_MSTR.dgn PLOTTED: 1-APR-2024 09:35



GENERAL PLAN

2 0 4 8 FEET

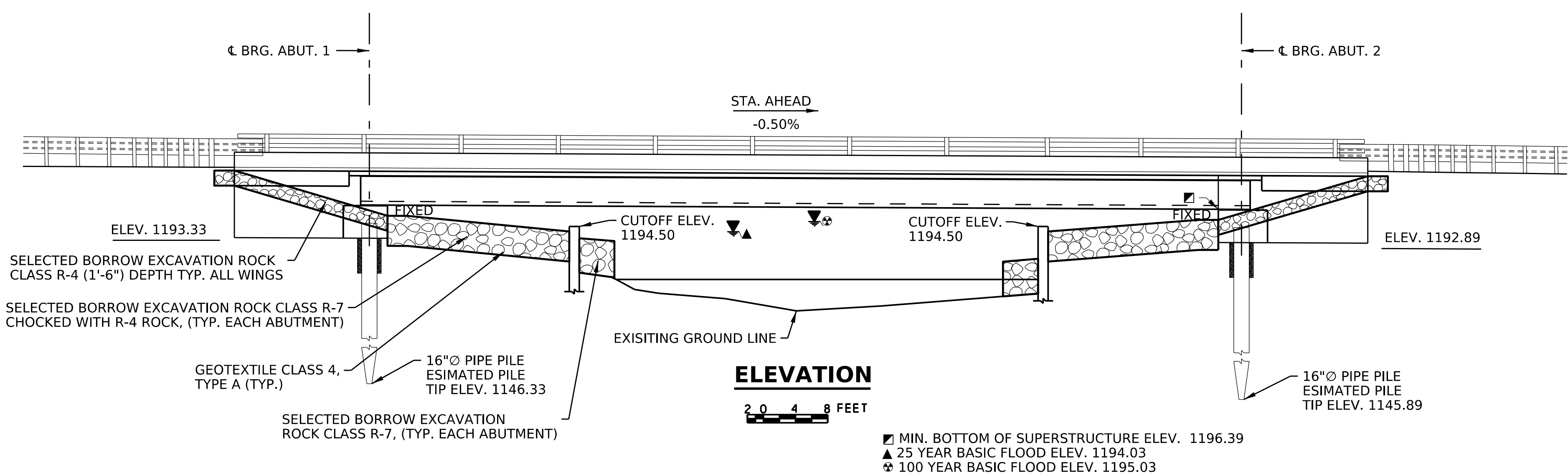
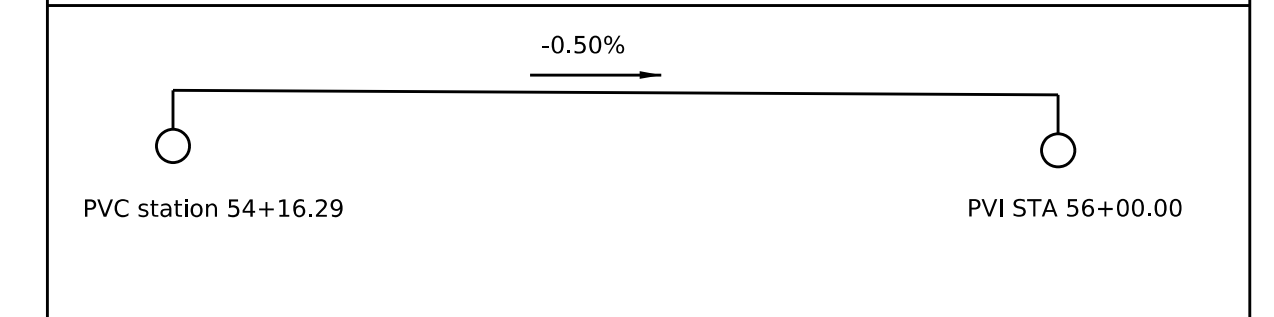
--- DENOTES EXISTING CONTOURS
 - - - DENOTES PROPOSED CONTOURS
 * DENOTES BORING LOCATIONS
 ▨ DENOTES WETLAND

HYDROLOGIC & HYDRAULIC DATA				
DRAINAGE AREA = 7.94 SQ. MI.				
LATITUDE: 41° 18' 22.0" N, LOGITUDE: 80° 11' 12.1" W				
FLOOD FREQ.	Q (CFS)	ELEV.	V (FPS)	
EXISTING STRUCTURE				
DESIGN 25 YR	1062	1194.25	2.89	
BASIC 100 YR	1699	1195.38	3.69	
PROPOSED STRUCTURE				
DESIGN 25 YR	1062	1194.03	3.03	
BASIC 100 YR	1699	1195.03	3.94	

STRUCTURE DATA

EXISTING STRUCTURE	PROPOSED STRUCTURE
STATION 55+35.00.00	STATION 55+35.00.00
TYPE: ONE SPAN STEEL I-BEAM	TYPE: ADJ. BOX BEAM
SPAN 46'-6"	SPANS: 87'-0"
SKEW: 45°	SKEW: 60°
AVG. UNDERCLEARANCE 10'-0"	AVG. UNDERCLEARANCE 10'-1"
CLEAR ROADWAY WIDTH 23'-9"	CLEAR ROADWAY WIDTH 26'-9½"

GRADE PROFILE DATA @ CL STRUCTURE



ELEVATION

2 0 4 8 FEET

▲ MIN. BOTTOM OF SUPERSTRUCTURE ELEV. 1196.39
 ▲ 25 YEAR BASIC FLOOD ELEV. 1194.03
 * 100 YEAR BASIC FLOOD ELEV. 1195.03

Mark	Description	By	Chk'd	Recm'd.	Date
REVISIONS					

S.R. 2017 PREVIOUSLY KNOWN AS L.R. 43051
 BMS STR ID: 43-2017-0070-1422 MPMS/ECMS PROJ: 1861

**COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION**

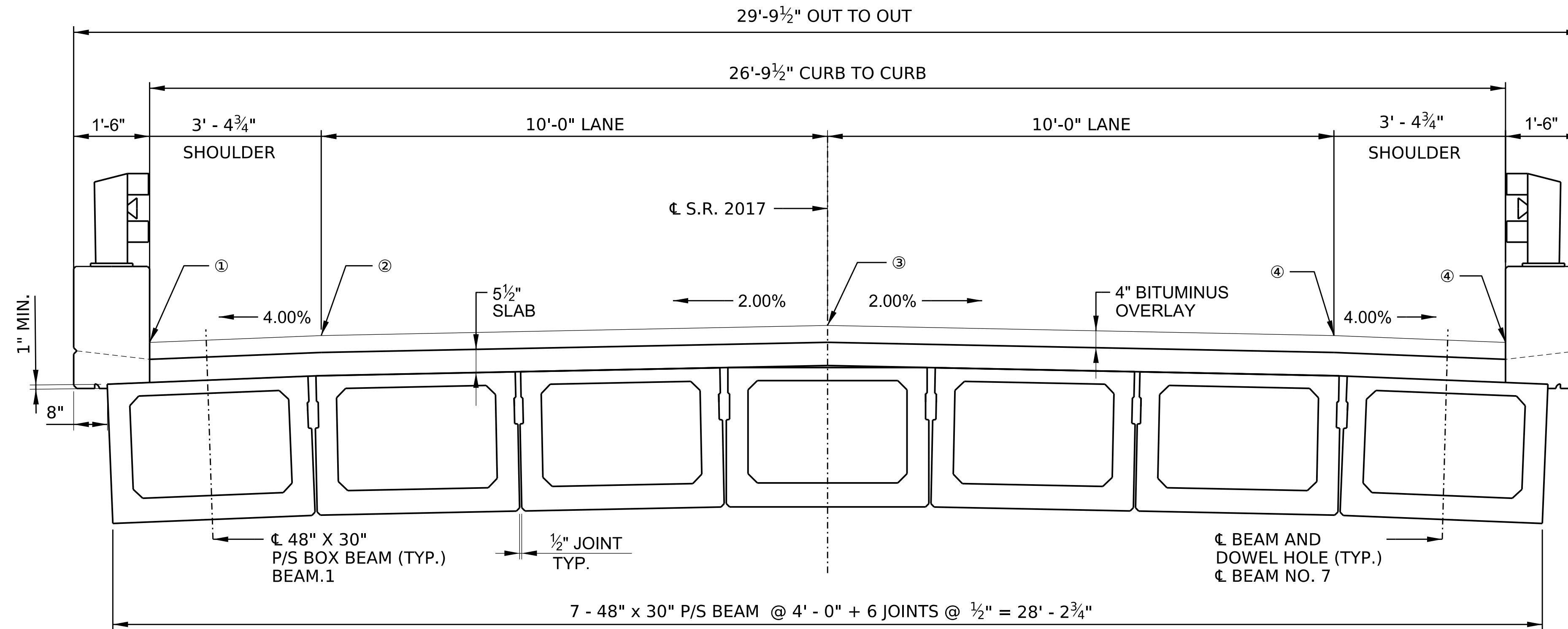
**MERCER COUNTY
 S.R. 2017 SECTION B00
 SEGMENT 0070 OFFSET 1422
 STA. 55+32.00
 OVER
 COOL SPRING CREEK
 1 SPAN P/S CONC ADJ. BOX BEAM BRIDGE
 TYPE, SIZE, & LOCATION PLAN**

PREPARED BY
**DISTRICT 1-0
 BRIDGE UNIT**

RECOMMENDED _____	SHEET <u>1</u> OF <u>2</u>
DISTRICT BRIDGE ENGINEER	S - 42278

Preliminary Plan
 NOT FOR CONSTRUCTION

OPERATOR: masnowers
 FILE NAME: pw://PDEDCPRAPPW01.pennidot.ct:Connect_Projects/Documents/OpenRoads_Projects/D01/43-Mercer/43 2017 B00 (1861)/DESIGN/Bridge 43-2017-0070-1422/CADD Files/43 2017 B00_MSTR.dgn PLOTTED: 1-APR-2024 09:35



TYPICAL CROSS SECTION
LOOKING STATIONS AHEAD



DESIGN SPECIFICATIONS

1. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 8TH EDITION, 2017, AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, DECEMBER 2019 EDITION (INCLUDING REVISIONS).
2. LIVE LOAD DISTRIBUTION TO BEAMS IS BASED ON DM-4 DISTRIBUTION FACTOR METHOD
3. DESIGN IN ACCORDANCE WITH THE LRFD METHOD.

DESIGN LIVE LOADS

1. PHIL-93, P-82 AND P2016-13.
2. FATIGUE DESIGN IS BASED ON THE FOLLOWING: ADTT 13 (2045) (ONE-DIRECTIONAL)
3. MAXIMUM ALLOWABLE STRESS IN PRECOMPRESSD TENSILE ZONE: 0.0948

DEAD LOADS

1. Includes surface area density of 0.049 ksf for future wearing surface on the deck slab.

Mark	Description	By	Chk'd	Recm'd.	Date
REVISIONS					

S.R. 2017 PREVIOUSLY KNOWN AS L.R. 43051
 BMS STR ID: 43-2017-0070-1422 MPMS/ECMS PROJ: 1861

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

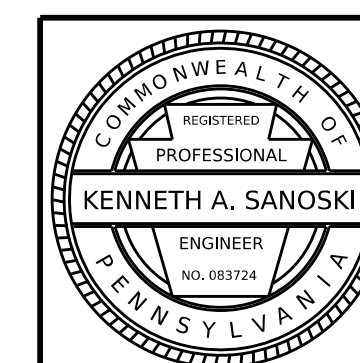
MERCER COUNTY
S.R. 2017 SECTION B00
 SEGMENT 0070 OFFSET 1422
 STA. 55+32.00
 OVER
 COOL SPRING CREEK
 1 SPAN P/S CONC ADJ BOX BEAM BRIDGE

TYPICAL SECTION

RECOMMENDED _____

SHEET 2 OF 2

S - 42278



Preliminary Plan
NOT FOR CONSTRUCTION

PLOTTED: 2-APR-2024 10:32

OPERATOR: babringle
FILE NAME: pw://PDEDPRAPPW01.pennndot.lcl:Connect_P\Projects\Documents\OpenRoads_Projects\01143-Mercer\43 2017 B00 (1861)\DESIGN\Roadway\CADD Files\43 2017-800_PLAN.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
01	MERCER	2017	B00	8 OF 9
FAIRVIEW TOWNSHIP				
REV NO	REVISIONS		DATE	BY APPD

HYDROLOGIC & HYDRAULIC DATA				
DRAINAGE AREA = 7.94 SQ. MI.				
LATITUDE: 41° 18' 22" N, LONGITUDE: 80° 11' 12.1" W				
FLOOD	FREQ.	Q (CFS)	ELEV.	V (FPS)
EXISTING STRUCTURE				
DESIGN	25 YR	1062	1194.25	2.89
BASIC	100 YR	1699	1195.38	3.69
PROPOSED STRUCTURE				
DESIGN	25 YR	1062	1194.04	3.03
BASIC	100 YR	1699	1195.04	3.93

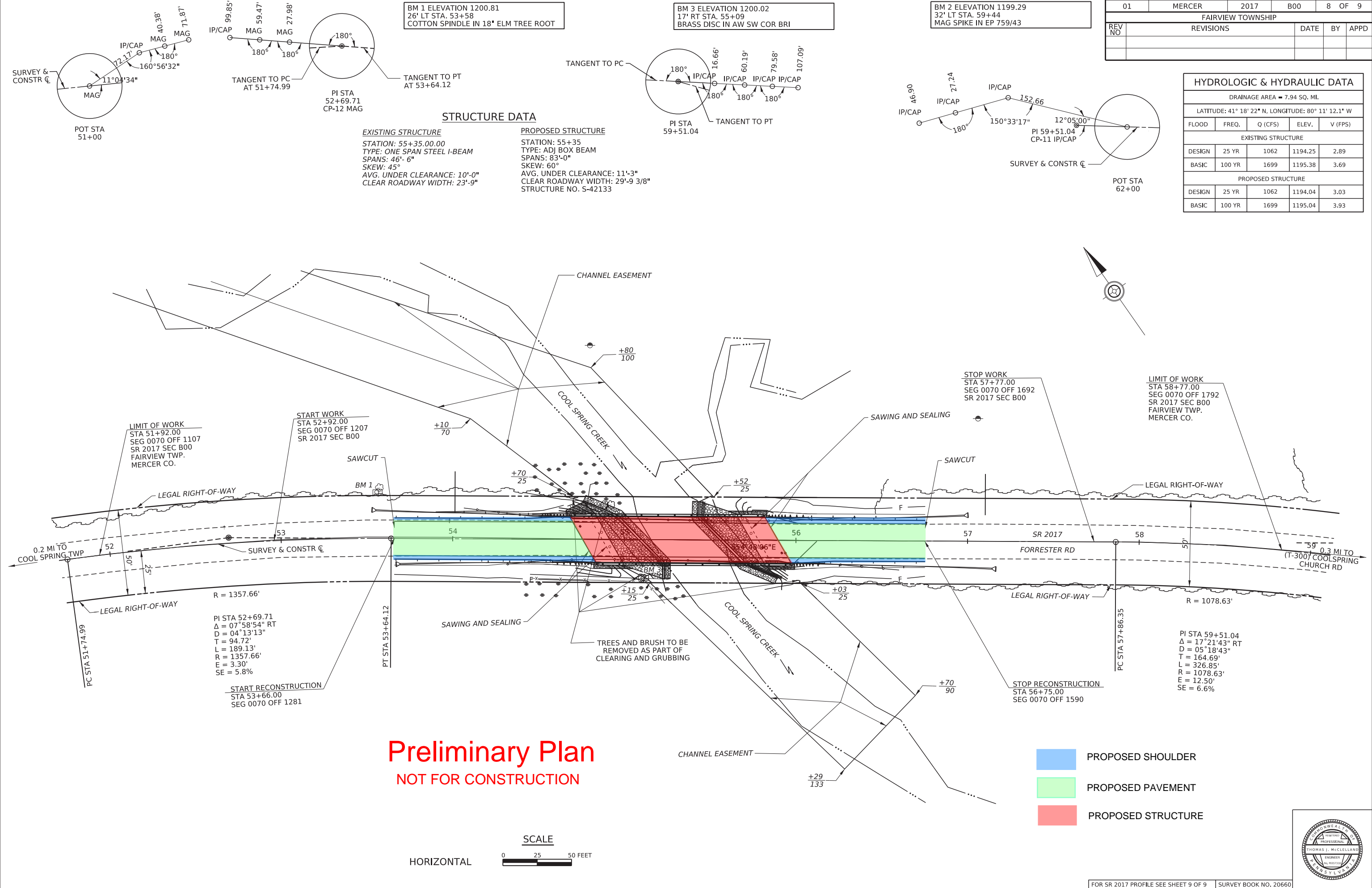
BM 1 ELEVATION 1200.81
26' LT STA. 53+58
COTTON SPINDLE IN 18" ELM TREE ROOT

BM 3 ELEVATION 1200.02
17' RT STA. 55+09
BRASS DISC IN AW SW COR BRI

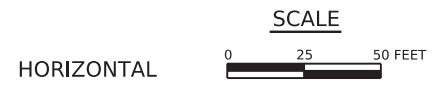
BM 2 ELEVATION 1199.29
32' LT STA. 59+44
MAG SPIKE IN EP 759/43

STRUCTURE DATA

EXISTING STRUCTURE	PROPOSED STRUCTURE
STATION: 55+35.00	STATION: 55+35
TYPE: ONE SPAN STEEL I-BEAM	TYPE: ADJ BOX BEAM
SPANS: 46'-6"	SPANS: 83'-0"
SKEW: 45°	SKEW: 60°
AVG. UNDER CLEARANCE: 10'-0"	AVG. UNDER CLEARANCE: 11'-3"
CLEAR ROADWAY WIDTH: 23'-9"	CLEAR ROADWAY WIDTH: 29'-9 3/8"
	STRUCTURE NO. S-42133



Preliminary Plan
NOT FOR CONSTRUCTION



- PROPOSED SHOULDER
- PROPOSED PAVEMENT
- PROPOSED STRUCTURE

