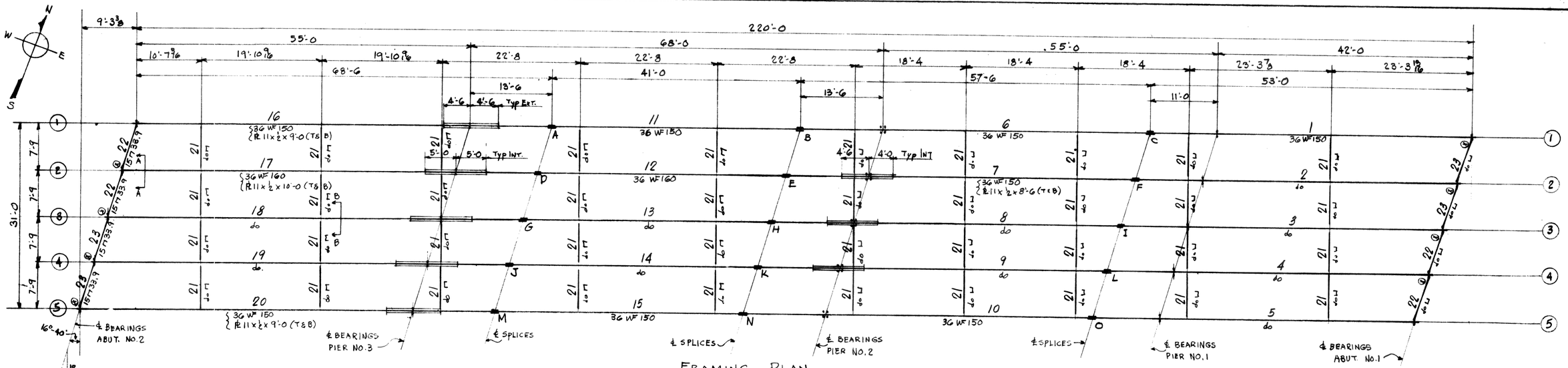
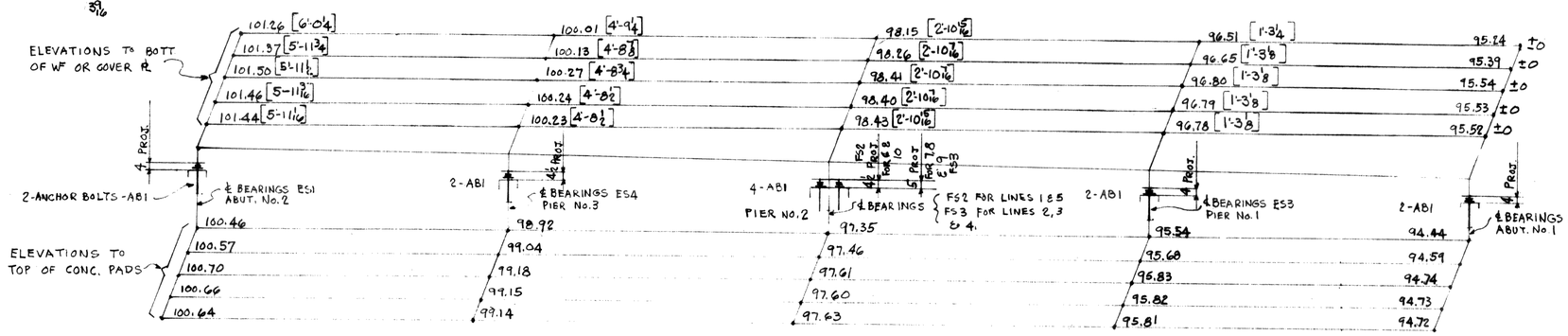
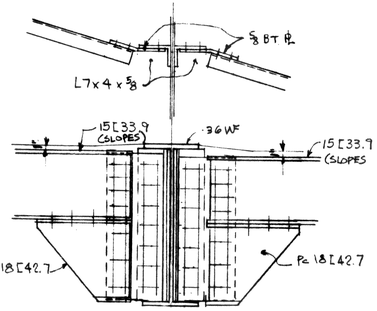
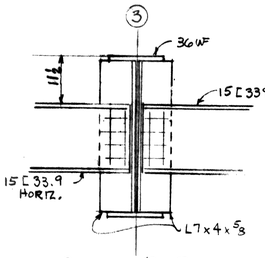


FRAMING PLAN

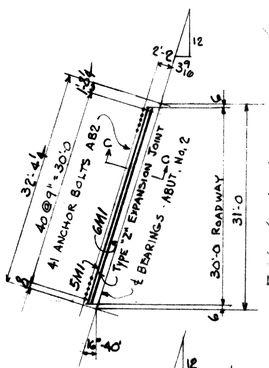


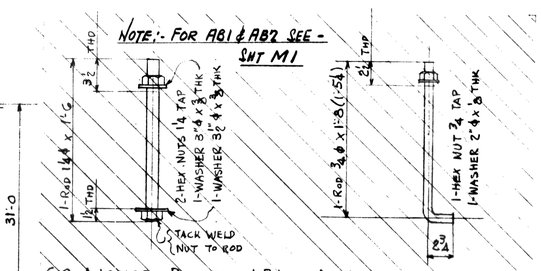


SECT A-A



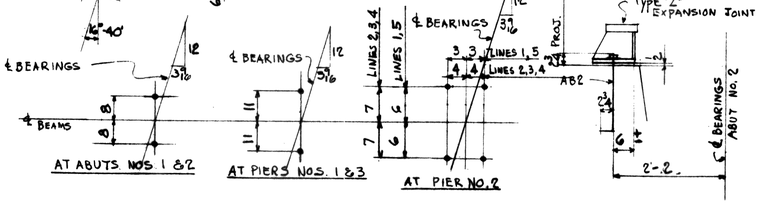
SECT. B-B





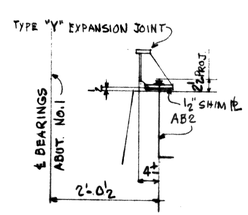
60-ANCHOR BOLTS - AB1

46-ANCHOR BOLTS - AB2

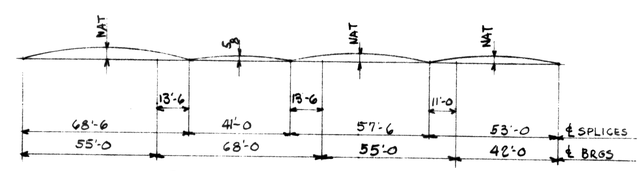


ANCHOR BOLT SETTINGS

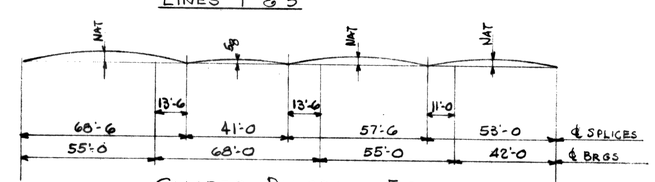
SECT C-C



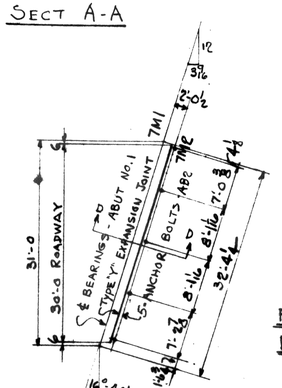
SECT. D-D



CAMBER DIAGRAM FOR LINES 1 & 5



CAMBER DIAGRAM FOR LINES 2, 3 & 4



SHOP NOTES:

SHOP TO ASSEMBLE EACH LINE OF GIRDERS AND MATCHMARK WITH LETTERS A, B, C, ETC. AS INDICATED ON PLAN.

FIGURES GIVEN THUS: [1'-3 1/4] INDICATE BOTTOM OF BEAM OR COVER PL ABOVE ELEV. ±0.

FOR GENERAL NOTES SEE SHT. K-1

FIELD CONNS: 3/4 ϕ BOLTS FOR EXPAN. JOINTS; 3/4 ϕ HIGH STRENGTH STRUCTURAL BOLTS FOR OTHERS (C4530-13-11)

ERECT BY: OTHERS

FIELD BOLTS (SHIPPING COUNT) COMPLETE

95 - BOLTS 3/4" ϕ x 3 1/4 WITH STD. WASHERS 5/16" THK A.S.R. SF HEX HD. HIGH STRENGTH STRUCTURAL BOLTS TO A.S.T.M. SPEC. A325 - ONE A.S.H. SF HEX NUT (EACH BOLT)

255 - 3/4" ϕ BOLTS x 3 1/4

380 - do x 3 1/2

945 - do x 3

910 - do x 2 3/4

HARDENED A.S.H. ROUND WASHERS TO A.S.T.M. SPEC. A325

4980 - 3/4" ϕ WASHERS

C4530-13-X1

APPROVED 7-27-54
Howard, Needles, Tammen & Bergendoff
Consulting Engineers

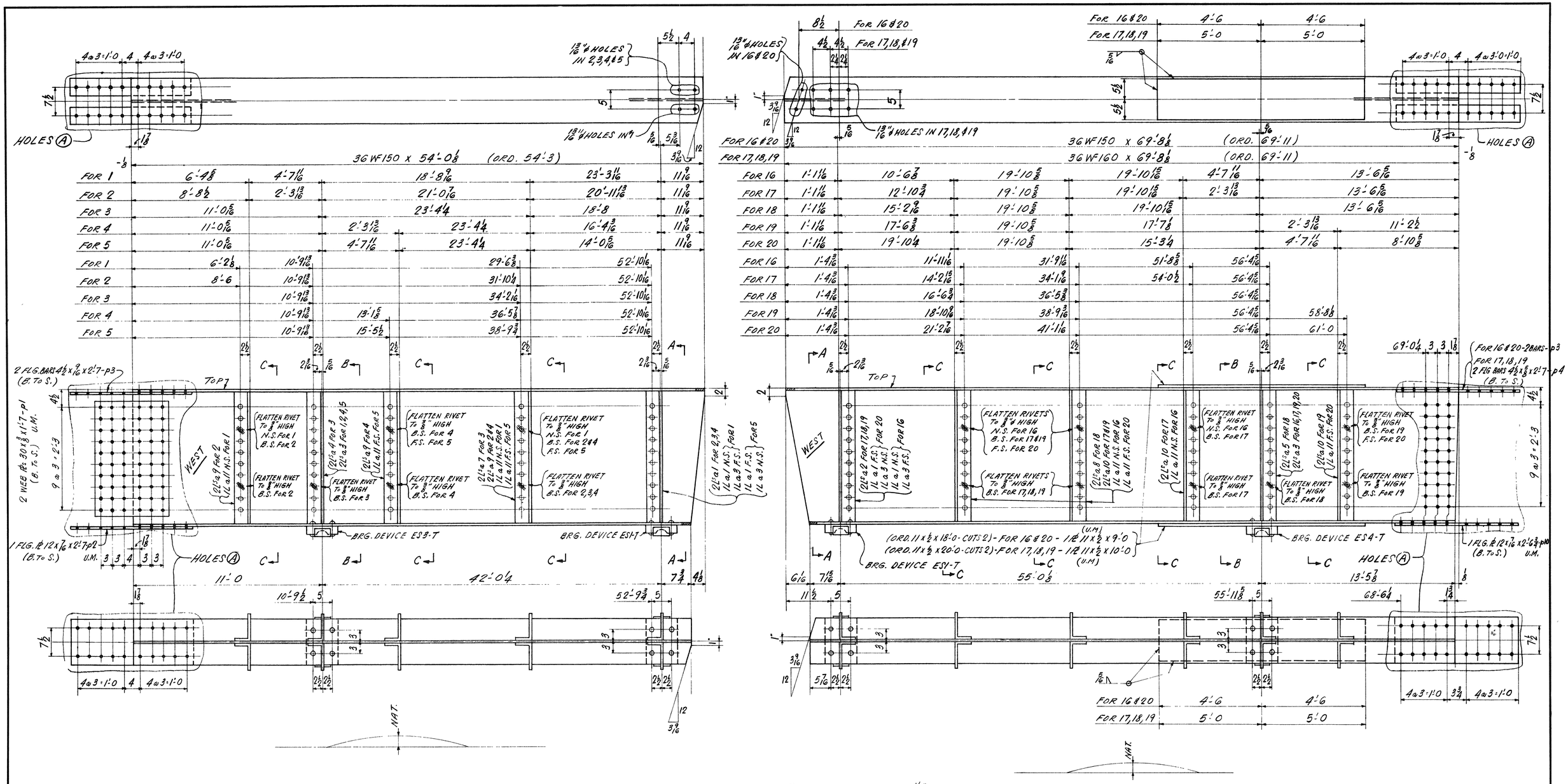
STRUCTURE 13 STA. 2613+00.00

ERNST CONSTRUCTION CORP.
61-87 LATHROP ST. BUFFALO, N. Y.

TITLE TURNPIKE UNDER S.H. ROUTE 100 INTERCHANGE
FOR MAINE TURNPIKE SECT. 2
PORTLAND TO AUGUSTA, ME

MADE BY CFG DATE 3-15-54 CHK. BY B DATE 6-28-54
OPEN HOLES 15/16 DIA. RIVETS 3/4 DIA. UNLESS NOTED.
SHOP PAINT: SEE SHEET K1 SHEET NO. E1
FIELD PAINT: BY OTHERS CONT. NO. 4530-13

SULLIVAN-DONOHUE Co., Inc. BUFFALO No. 102-S Tracing Paper 11-20-53



CAMBER DIAGRAM

1 - BEAM - 1		
1 -	do	- 2
1 -	do	- 3
1 -	do	- 4
1 -	do	- 5

NOTE: HOLES MARKED (A) TO BE SUBPUNCHED 11/16" ⌀
& REAMED TO 15/16" ⌀
FOR GENERAL NOTES SEE SHT.-K1
STIFFNER L's AT POINTS OF SUPPORT ARE MILLED
TO BEAR AT BOTTOM & TIGHT FIT AT TOP
FOR BEARING DEVICES ES1-T, ES3-T, & ES4-T SEE SHT.-B1
SEE SHT. E1 FOR MATCH MARKING OF GIRDERS
WORK THIS SHEET WITH SHEET #4
DO NOT PAINT AROUND OPEN HOLES

CAMBER DIAGRAM

1 - BEAM - 16		
1 -	do	- 17
1 -	do	- 18
1 -	do	- 19
1 -	do	- 20

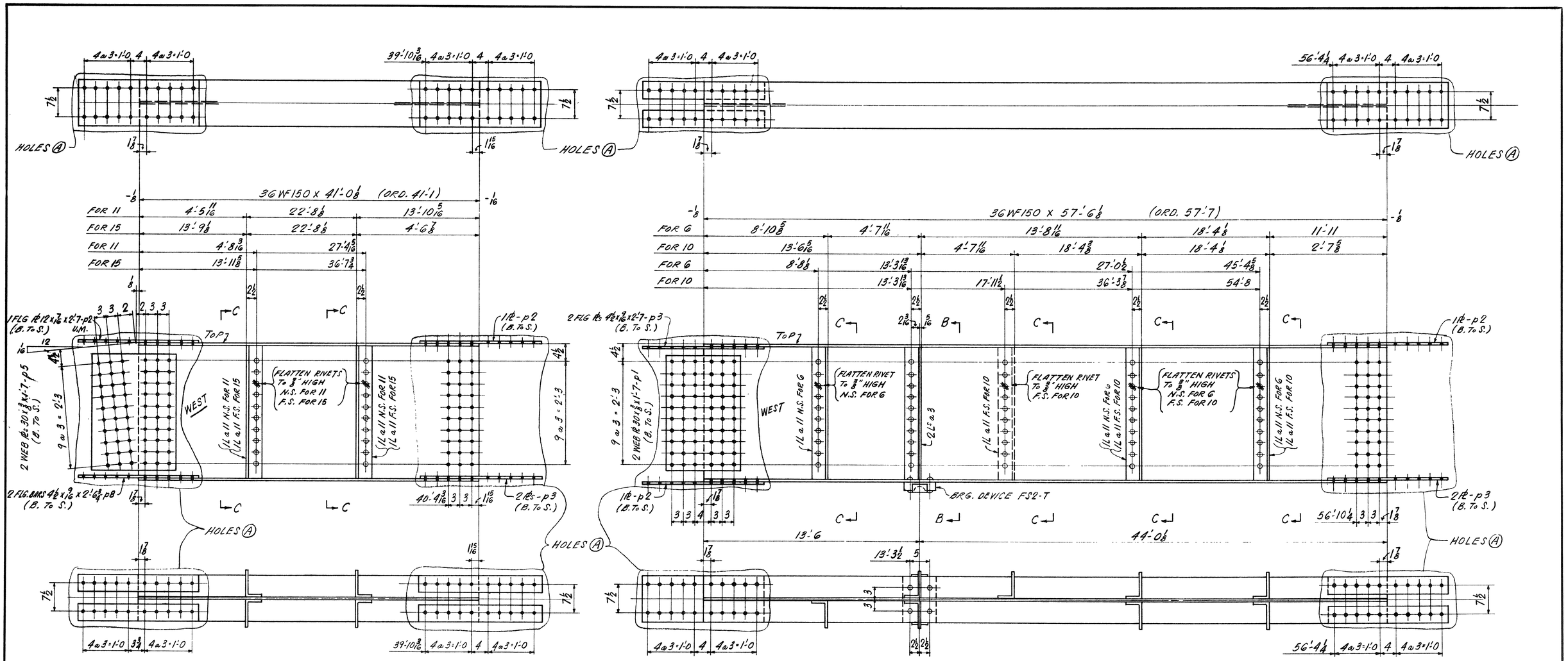
APPROVED 7-27-54
Howard, Needles, Tammen & Bergendoff
Consulting Engineers

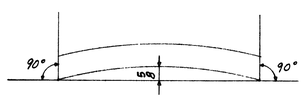
STRUCTURE 13 STA. 26.13+00.00

ERNST CONSTRUCTION CORP.
61-87 LATHROP ST. BUFFALO, N. Y.

TITLE STATE HIGHWAY RT. 100 INTERCHANGE OVER TURNPIKE
FOR MAINE TURNPIKE AUTHORITY
SECTION 2 - PORTLAND TO AUGUSTA
MADE BY A.W.S. DATE 4-29-54 CHK. BY B DATE 6-28-54
OPEN HOLES 15/16" DIA. RIVETS 7/8" DIA. UNLESS NOTED.
SHOP PAINT: SEE SHEET K1 SHEET NO. 1
FIELD PAINT: BY OTHERS CONT. NO. 4530-13

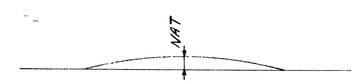
58 SULLIVAN-McKEEGAN CO., INC., BUFFALO NO. 103-H ALBANENE 2-54-1M





CAMBER DIAGRAM

1 - BEAM - 11
1 - do - 15



CAMBER DIAGRAM

1 - BEAM - 6
1 - do - 10

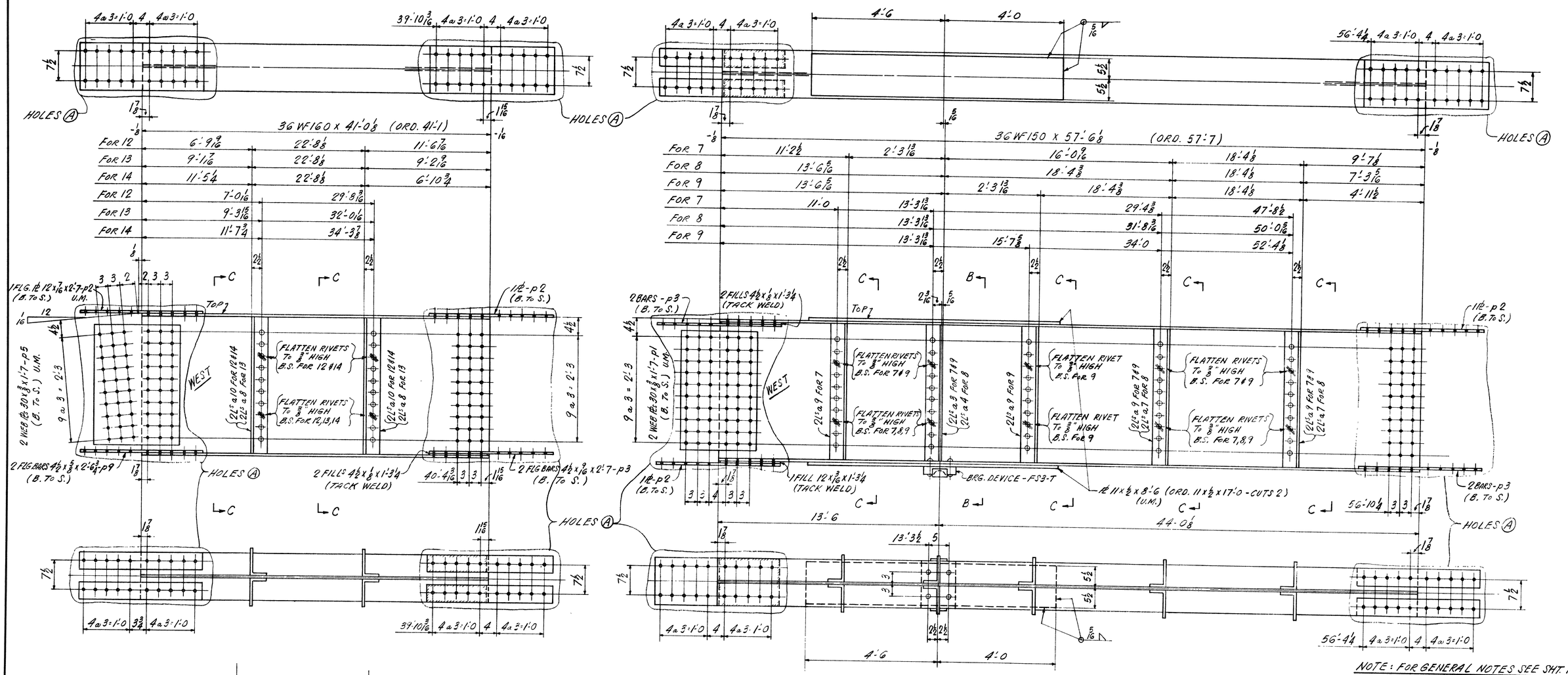
NOTE: DO NOT PAINT AROUND OPEN HOLES
FOR GENERAL NOTES SEE SHT-K1
FOR BEARING DEVICE FS2-T SEE SHT-B2
HOLES MARKED (A) TO BE SUBPUNCHED 11/16"ϕ & REAMED TO 15/16"ϕ
WORK THIS SHEET WITH SHEET 4
STIFFNER Ls AT POINTS OF SUPPORT ARE MILLED TO BEAR AT BOTTOM & TIGHT FIT AT TOP
SEE SHT E1 FOR MATCH MARKING OF GIRDERS

STRUCTURE 13 STA. 26.13 + 00.00

APPROVED 7-27-54
Howard, Needles, Tammen & Bergendoff
Consulting Engineers

ERNST CONSTRUCTION CORP.
61-87 LATHROP ST. BUFFALO, N. Y.

TITLE: STATE HIGHWAY RT.100 INTERCHANGE OVER TURNPIKE
FOR MAINE TURNPIKE AUTHORITY
SECTION 2 - PORTLAND TO AUGUSTA
MADE BY A.W.S. DATE 4-30-54 CHK. BY B DATE 6-28-54
OPEN HOLES 15/16" DIA. RIVETS 7/8" DIA. UNLESS NOTED.
SHOP PAINT: SEE SHEET K1 SHEET NO. 2
FIELD PAINT: BY OTHERS CONT. NO. 4530-13



CAMBER DIAGRAM

1 - BEAM - 12
1 - do - 13
1 - do - 14

CAMBER DIAGRAM

1 - BEAM - 7
1 - do - 8
1 - do - 9

NOTE: FOR GENERAL NOTES SEE SHT. K1
FOR BEARING DEVICE FS3-T SEE SHT. B2
STIFFNER L's AT POINTS OF SUPPORT ARE MILLED TO BEAR AT BOTTOM & TIGHT FIT AT TOP
HOLES MARKED (A) TO BE SUBPUNCHED 1 1/16"ø & REAMED TO 15/16"ø
WORK THIS SHEET WITH SHEET 4
SEE SHT E1 FOR MATCH MARKING OF GIRDERS
DO NOT PAINT AROUND OPEN HOLES

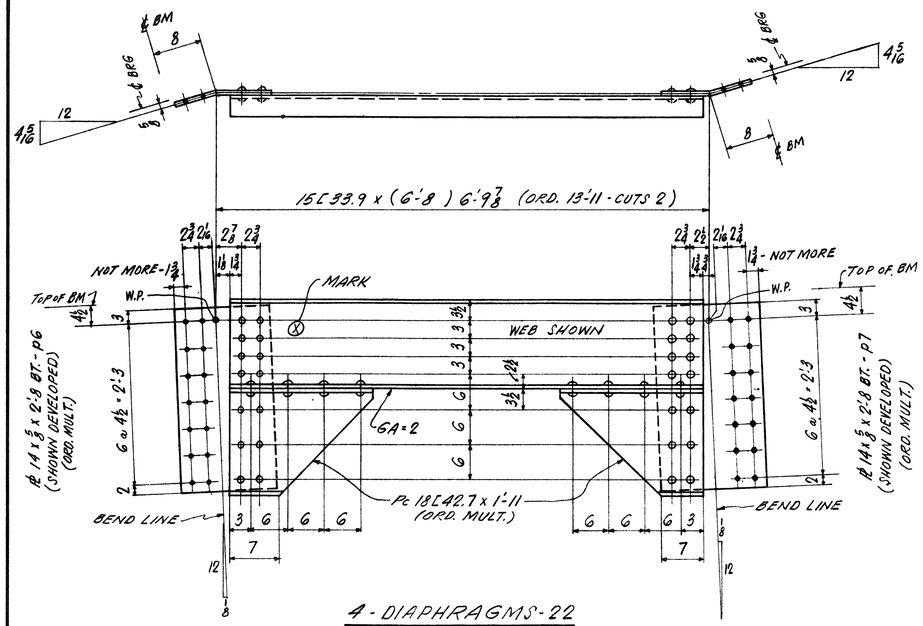
STRUCTURE 13 STA. 26.13 + 00.00

APPROVED 7-27-54
Howard, Needles, Tammen & Bergendoff
Consulting Engineers

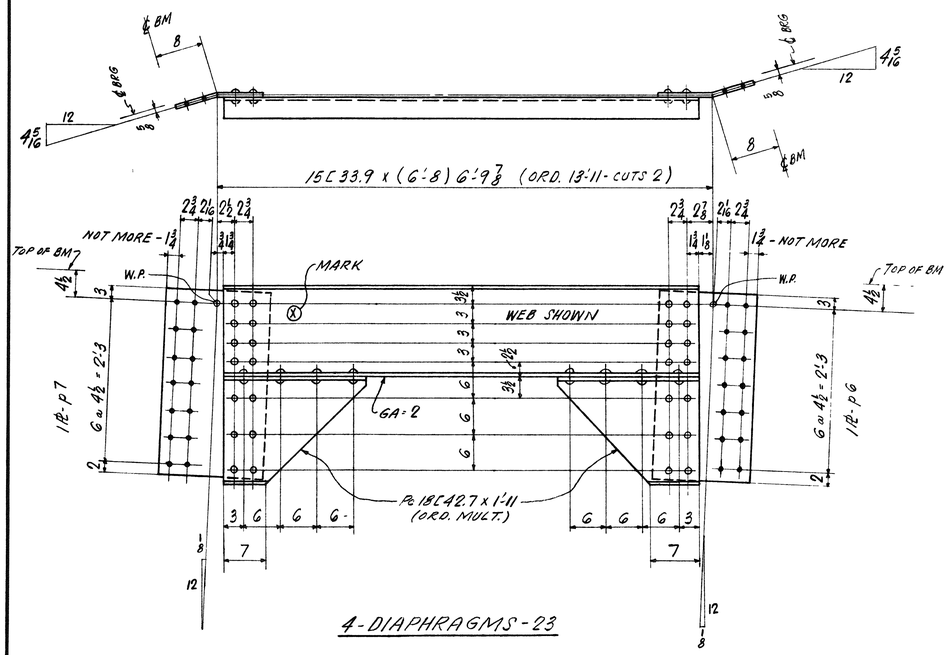
ERNST CONSTRUCTION CORP.
61-87 LATHROP ST. BUFFALO, N. Y.

TITLE STATE HIGHWAY RT. 100 INTERCHANGE OVER TURNPIKE
FOR MAINE TURNPIKE AUTHORITY
SECTION 2 - PORTLAND TO AUGUSTA
MADE BY AWS DATE 5-4-54 CHK. BY B DATE 6-29-54
OPEN HOLES 15/16" DIA. RIVETS 7/8" DIA. UNLESS NOTED.
SHOP PAINT: SEE SHEET K1 SHEET NO. 3
FIELD PAINT: BY OTHERS CONT. NO. 4530-13

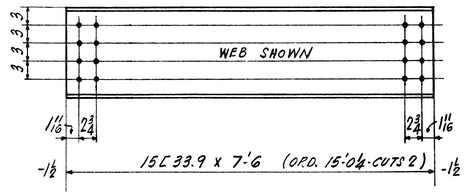
6a SULLIVAN-McKEEGAN CO., INC., BUFFALO NO. 198-M ALBANENE 2-54-1M



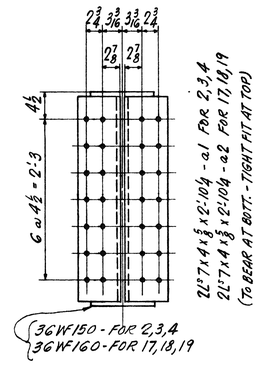
4 - DIAPHRAGMS - 22



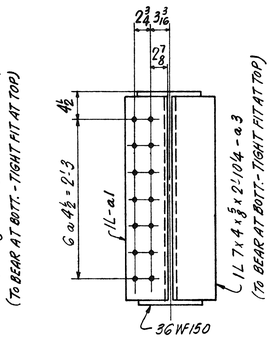
4 - DIAPHRAGMS - 23



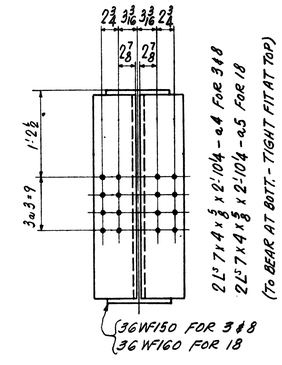
40 - DIAPHRAGMS - 21



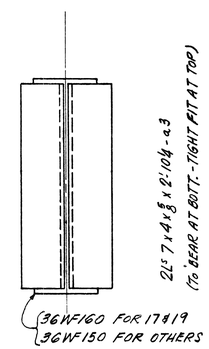
SECT. A-A
FOR 2,3,4,17,18,19



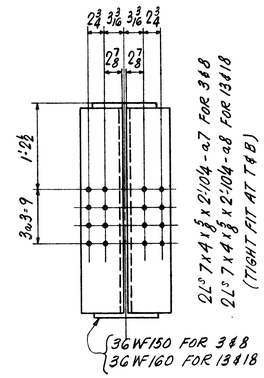
SECT. A-A FOR 1 & 20 (AS SHOWN)
SECT. A-A FOR 5 & 16 (LEFT OF SHOWN)



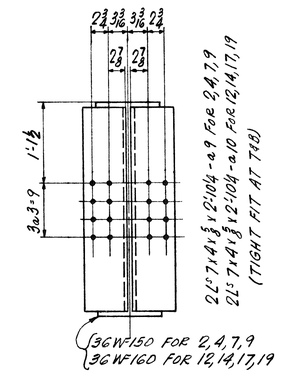
SECT. B-B
FOR 3,8,18



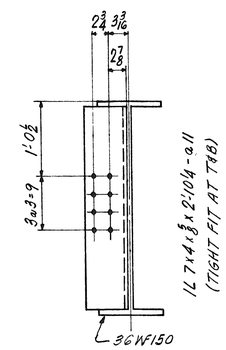
SECT. B-B
FOR 1,2,4,5,6,7,9,10,16,17,19,20



SECT. C-C
FOR 3,8,13,18



SECT. C-C
FOR 2,4,7,9,12,14,17,19



SECT. C-C FOR 1,6,15,20 (AS SHOWN)
SECT. C-C FOR 5,10,11,16 (LEFT OF SHOWN)

FIELD BOLTS (SHIPPING COUNT) COMPLETE

C4530-13-X1

35 - BOLTS 3/4" ϕ x 3 1/4 WITH STD WASHERS 1/8" THK
A.S.R. SF HEX HD. HIGH STRENGTH STRUCTURAL
BOLTS TO A.S.T.M. SPEC. A325
ONE A.S.H. SF HEX NUT (EACH BOLT)
255 - 7/8" ϕ BOLTS x 3 3/4
380 - do x 3 1/2
945 - do x 3
910 - do x 2 3/4
HARDENED A.S.H. ROUND WASHERS
TO A.S.T.M. SPEC. A325
4980 - 7/8" ϕ WASHERS

NOTE: WORK THIS SHEET WITH SHEETS 1,2,3
ALL L 7x4x5/8 ARE ORDERED MULT.
ALL SPLICE MATERIAL IS ORDERED MULT.
DO NOT PAINT AROUND OPEN HOLES

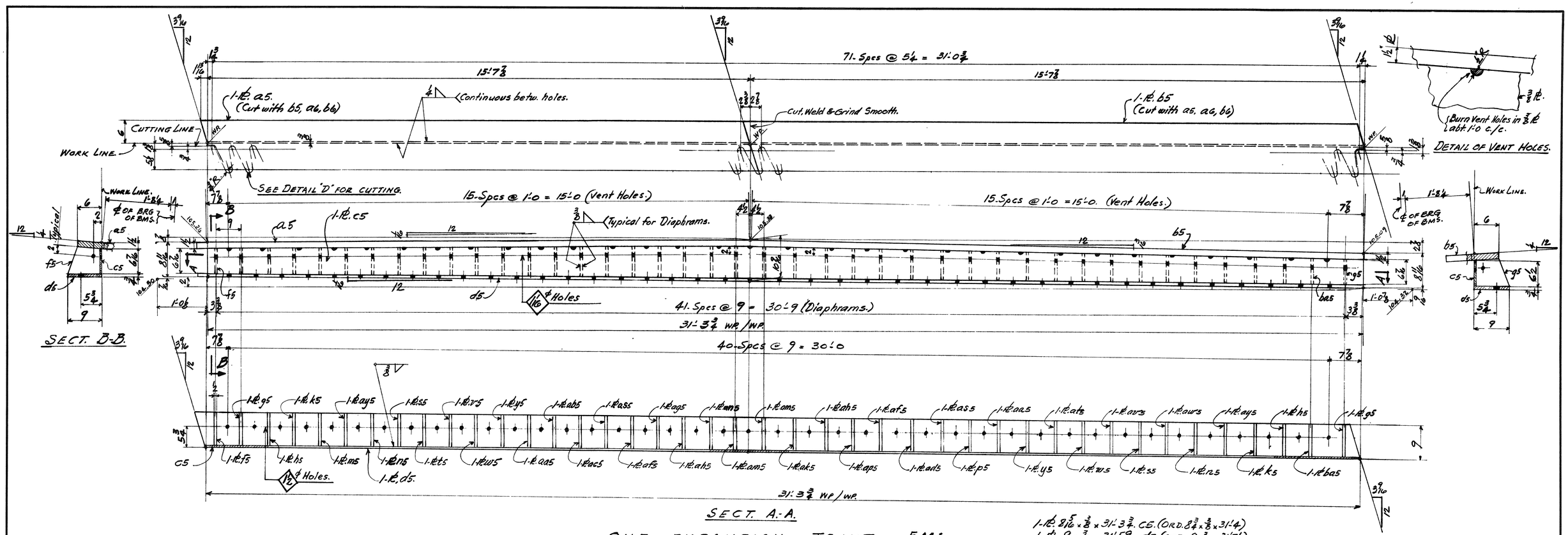
APPROVED 7-27-54
Howard, Needles, Tammen & Bergendoff
Consulting Engineers

STRUCTURE 13 STA. 26.13+00.00

ERNST CONSTRUCTION CORP.
61-67 LATHROP ST. BUFFALO, N. Y.

TITLE STATE HIGHWAY RT. 100 INTERCHANGE OVER TURNPIKE
FOR MAINE TURNPIKE AUTHORITY
SECTION 2 - PORTLAND TO AUGUSTA
MADE BY A.W.S. DATE 5-5-54 CHK. BY B DATE 6-29-54
OPEN HOLES 15/16" DIA. RIVETS 7/8" DIA. UNLESS NOTED.
SHOP PAINT: SEE SHEET K1 SHEET NO. 4
FIELD PAINT: By OTHERS CONT. NO. 4530-13

67 SULLIVAN-McKEEGAN Co., INC., BUFFALO No. 105-M ALBANENE 5-56-115

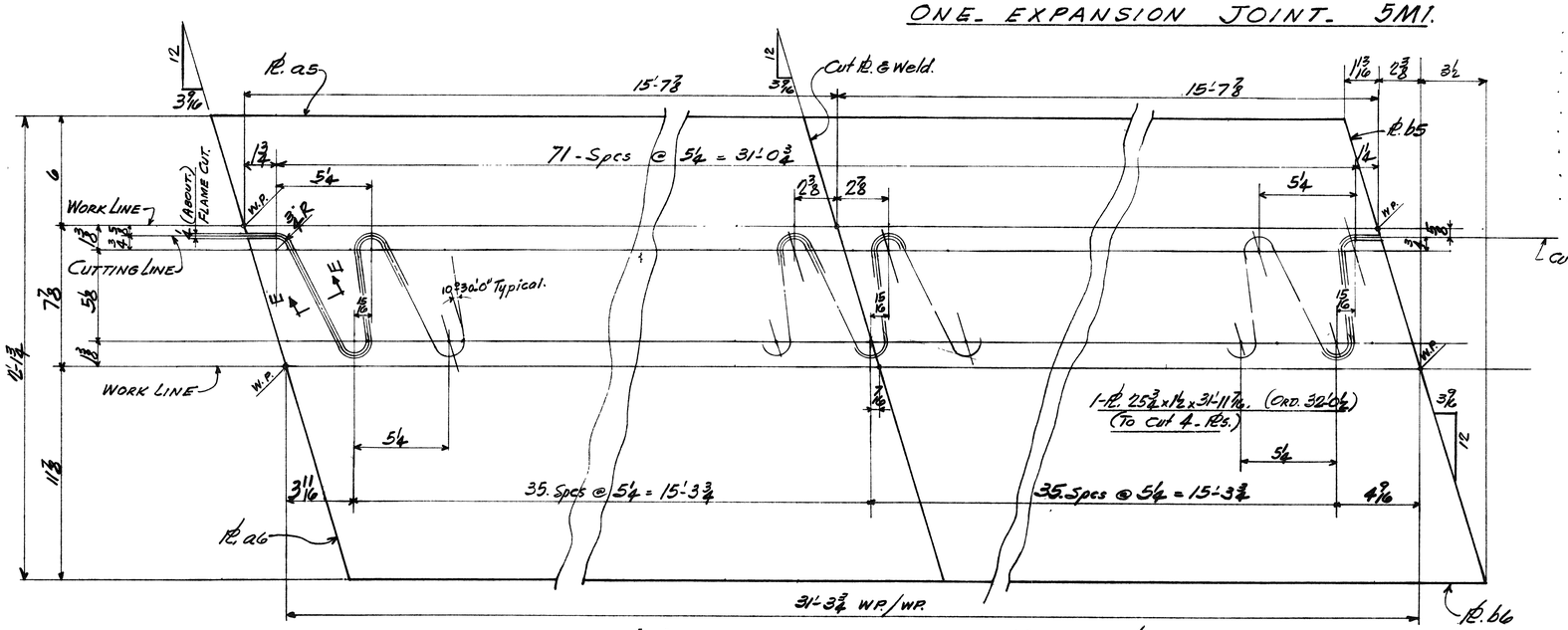


1-Pl. 8 5/16 x ⅜ x 31'-3¾. CE. (ORD. 8¾ x ⅜ x 31'-4)
1-Pl. 9 x ¾ x 31'-5 9/16. d5. (ORD. 9 x ¾ x 31'-7½)

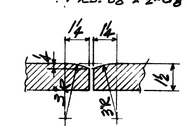
ORD. MULT.
- 1-Pl. 6 9/16 x ½ x 8⅝. f5
- 2-Pls. 6¾ x ½ x 8⅝. g5
- 2-Pl. 6¾ x ½ x 8⅝. h5
- 2-Pls. 6 13/16 x ½ x 8⅝. k5
- 1-Pl. 6 15/16 x ½ x 8⅝. m5
- 2-Pls. 7 1/16 x ½ x 8⅝. n5
- 1-Pl. 7 1/16 x ½ x 8⅝. p5
- 2-Pls. 7 1/16 x ½ x 8⅝. s5
- 1-Pl. 7 5/16 x ½ x 8⅝. t5

ORD. MULT.
- 1-Pl. 7⅝ x ½ x 8⅝ z5.
- 2-Pls. 7 11/16 x ½ x 8⅝. w5
- 2-Pls. 7 7/16 x ½ x 8⅝. y5
- 2-Pls. 7⅝ x ½ x 8⅝ aa5
- 1-Pl. 7¾ x ½ x 8⅝ ab5
- 1-Pl. 7 13/16 x ½ x 8⅝ ac5
- 1-Pl. 7 15/16 x ½ x 8⅝. ad5
- 2-Pls 8 x ½ x 8⅝ af5
- 1-Pls. 8⅛ x ½ x 8⅝ ag5

ORD. MULT.
- 2-Pls 8 3/16 x ½ x 8⅝ ab5
- 1-Pl. 8 5/16 x ½ x 8⅝ ak5
- 2-Pls 8 13/16 x ½ x 8⅝ am5
- 1-Pl. 8¼ x ½ x 8⅝ an5
- 1-Pl. 8 9/16 x ½ x 8⅝ ap5
- 2-Pls 7⅞ x ½ x 8⅝ as5
- 1-Pl. 7½ x ½ x 8⅝ at5
- 1-Pl. 7¼ x ½ x 8⅝ av5
- 1-Pl. 7⅛ x ½ x 8⅝ aw5
- 2-Pls 7 x ½ x 8⅝ ay5
- 1-Pl. 6⅝ x ½ x 8⅝ ba5



DETAIL "D" CUTTING DIAGRAM FOR 1½" TOOTH PLATE.



SECT. E-E.

WORK THIS SHEET WITH SHEET NO. 6 FOR 1½" TOOTH PLATE ONLY.

APPROVED 7-27-54
Howard, Needles, Tammen & Bergendoff
Consulting Engineers

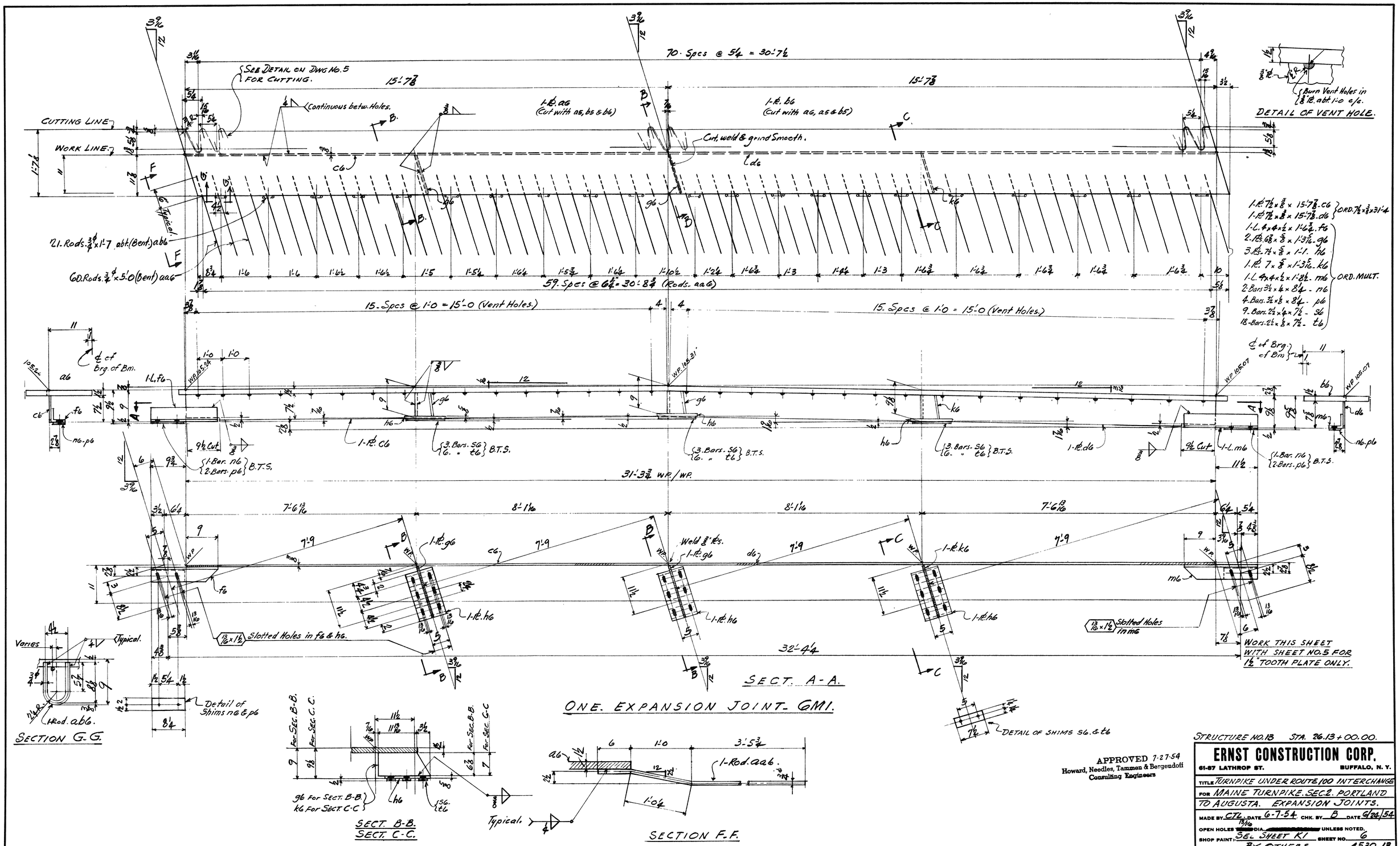
STRUCTURE NO. 13 — STA. 26.13 + 00.00

ERNST CONSTRUCTION CORP.
61-67 LATHROP ST. BUFFALO, N. Y.

TITLE TURNPIKE UNDER ROUTE 100 INTERCHANGE
FOR MAINE TURNPIKE. SEC. 2 PORTLAND TO AUGUSTA. EXPANSION JOINTS.

MADE BY CTL DATE 6-5-54 CHK. BY B DATE 6-24-54
OPEN HOLES — NOTED.
SHOP PAINT: SEE SHEET K1. SHEET NO. 5
FIELD PAINT: BY OTHERS CONT. NO. 4530-13

62-SULLIVAN-MCKEEHAN Co., INC., BUFFALO NO. 105-H ALBANENE 2-56-1M



APPROVED 7-27-54
Howard, Needles, Tammen & Bergendoff
Consulting Engineers

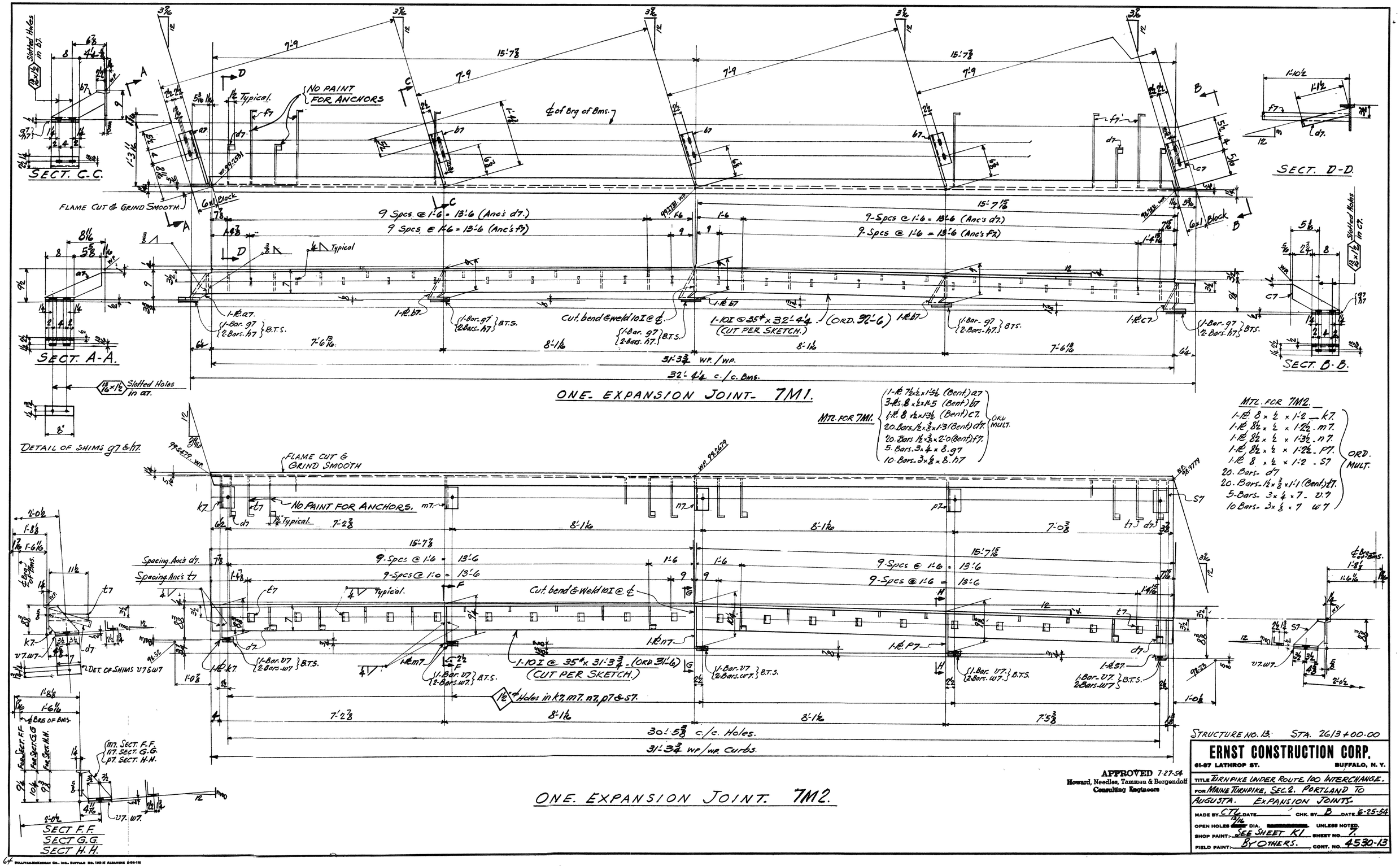
STRUCTURE NO. 13 STA. 26.13 + 00.00.

ERNST CONSTRUCTION CORP.
61-87 LATHROP ST. BUFFALO, N. Y.

TITLE TURNPIKE UNDER ROUTE 100 INTERCHANGE
FOR MAINE TURNPIKE. SEC. 2. PORTLAND TO AUGUSTA. EXPANSION JOINTS.

MADE BY CTL. DATE 6-7-54 CHK. BY B DATE 6/24/54
OPEN HOLES 13/16 DIA. [redacted] UNLESS NOTED.
SHOP PAINT: SEE SHEET K1 SHEET NO. 6
FIELD PAINT: BY OTHERS. CONT. NO. 4530-13

63 SULLIVAN-McKEEGAN Co., Inc., BUFFALO No. 195-M ALBANENE 2-54-1M



STRUCTURE NO. 13. STA. 2613+00.00

ERNST CONSTRUCTION CORP.
61-87 LATHROP ST. BUFFALO, N. Y.

APPROVED 7-27-54
Howard, Needles, Tammen & Bergendoff
Consulting Engineers

TITLE TURNPIKE UNDER ROUTE 100 INTERCHANGE.
FOR MAINE TURNPIKE, SEC. 2. PORTLAND TO AUGUSTA. EXPANSION JOINTS.
MADE BY CTL DATE CHK. BY B DATE 6-25-54
OPEN HOLES 13/16 DIA. UNLESS NOTED.
SHOP PAINT: SEE SHEET K1 SHEET NO. 7.
FIELD PAINT: BY OTHERS. CONT. NO. 4530-13

64 SULLIVAN-McKEEGAN CO., INC., BUFFALO No. 132-H ALBANENE 2-54-1M