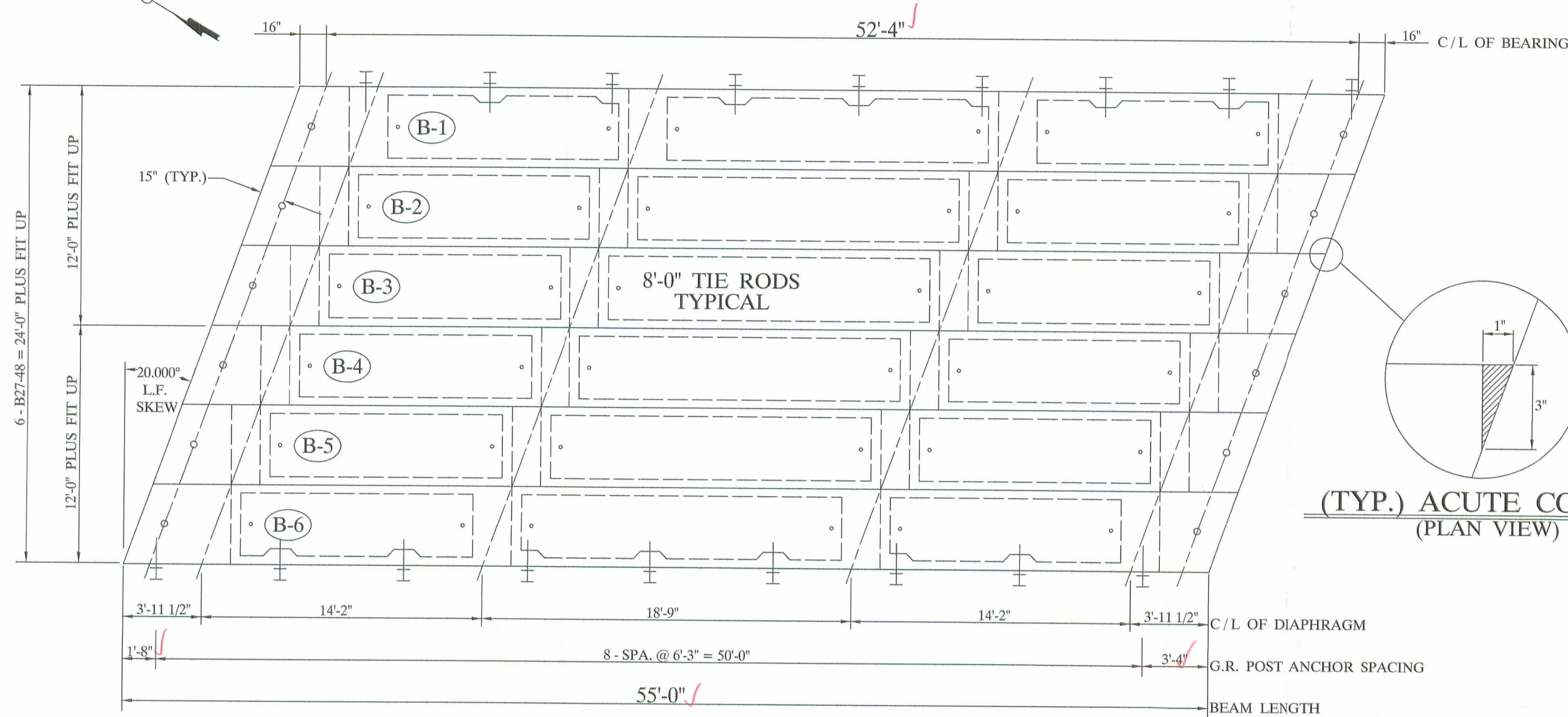
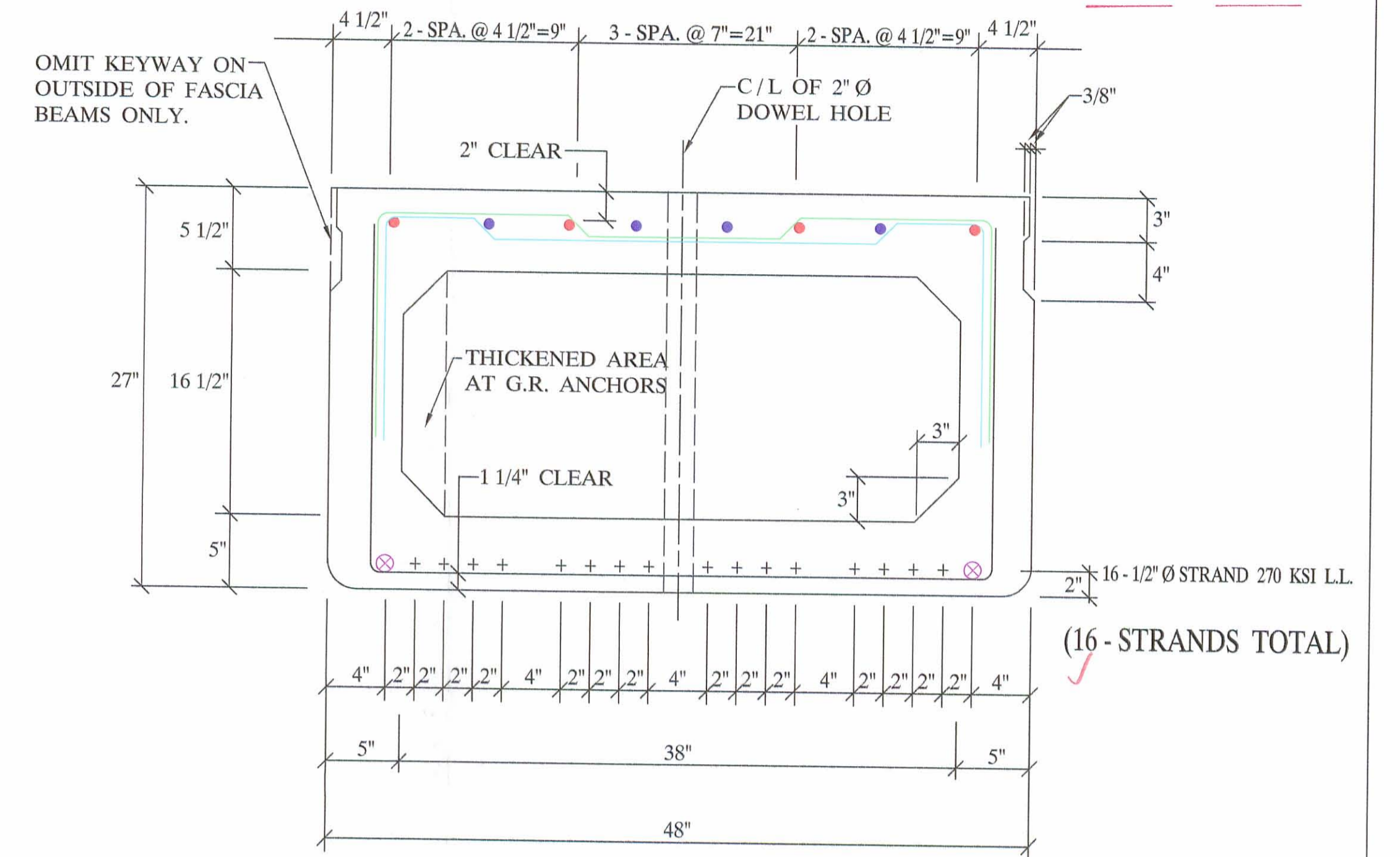


APPROVED
BY LOGAN CO. ENGINEER



DECK PLAN

(TYP.) ACUTE CORNER
(PLAN VIEW)

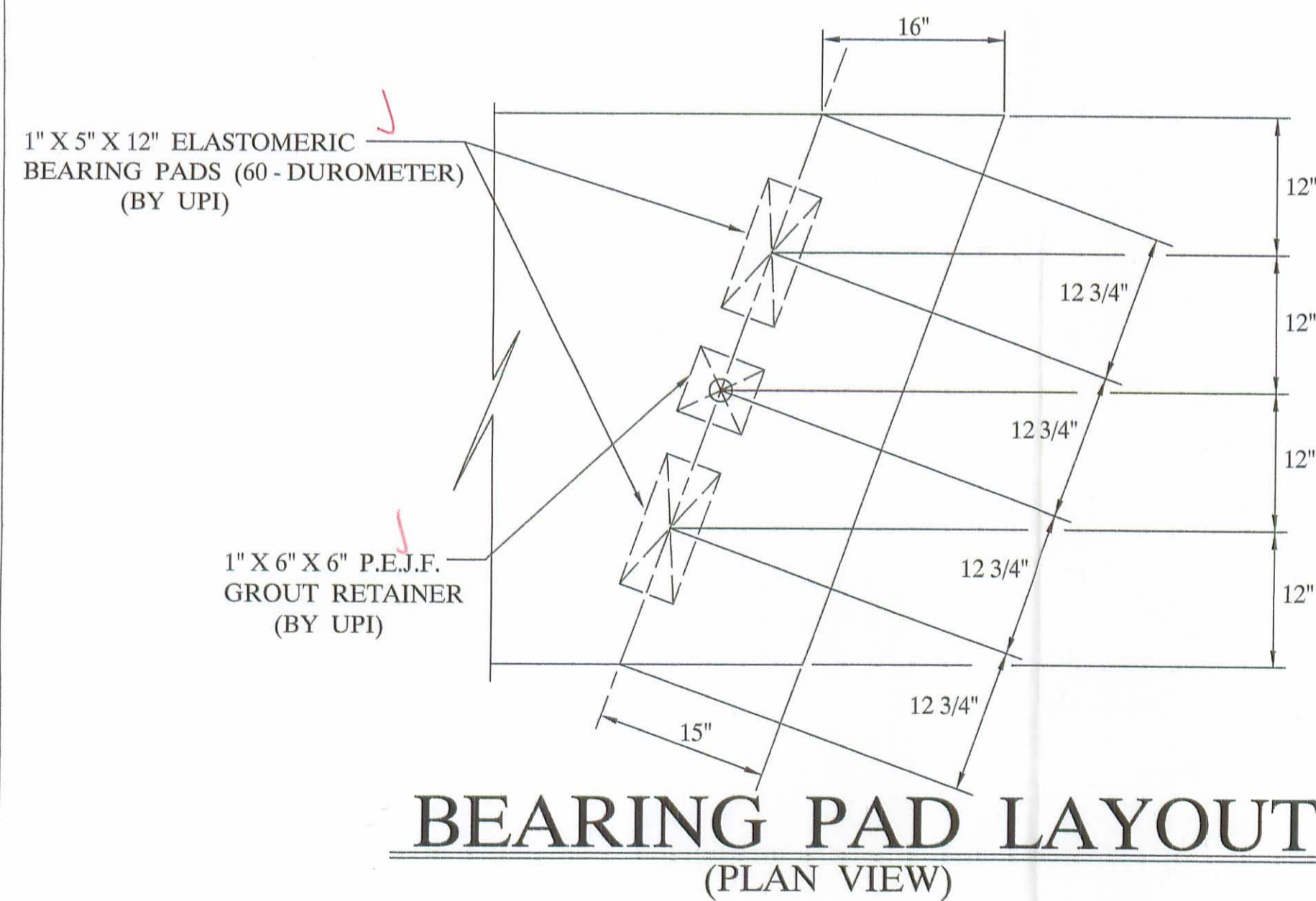


B27-48
(ELEVATION)

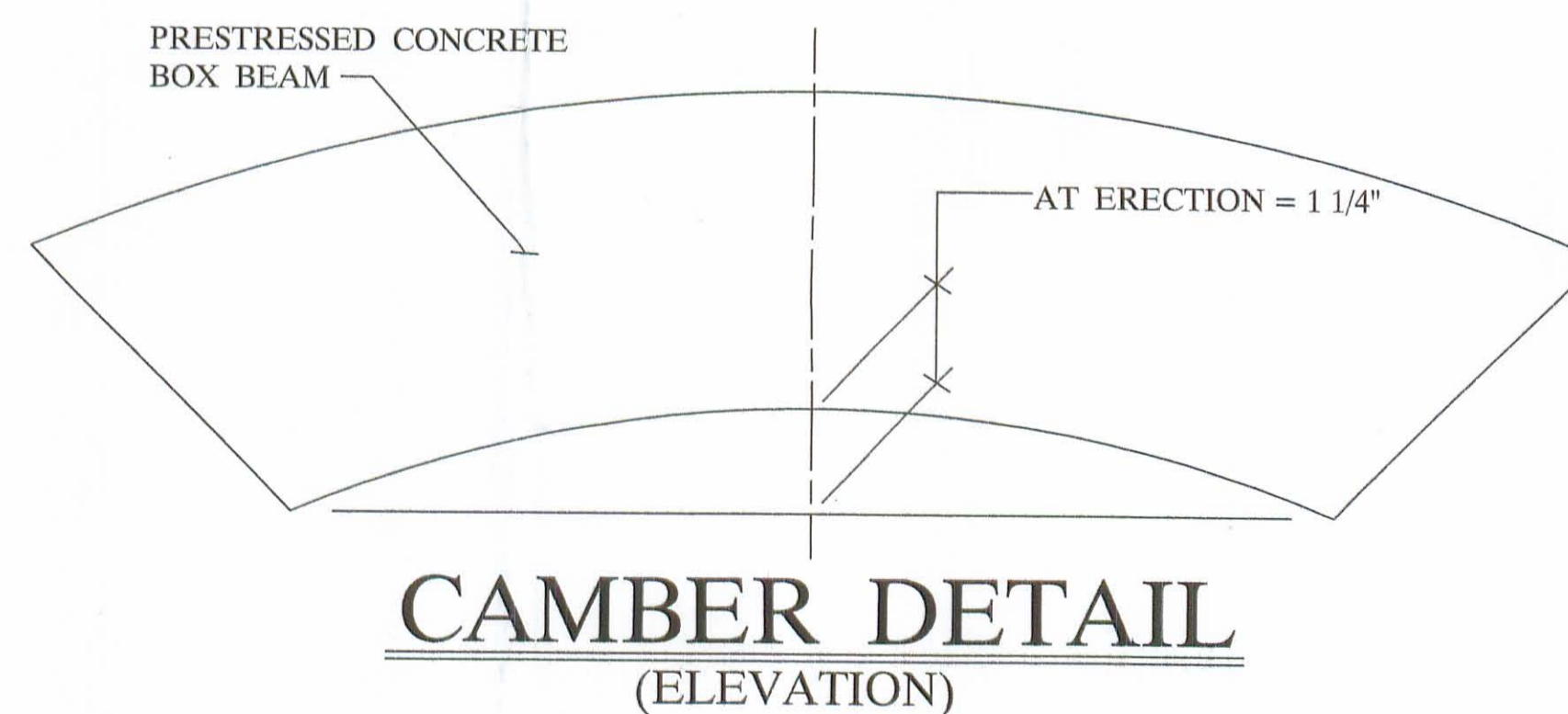
- 4 - #5 BARS FULL LENGTH RUN (TOP)
- 4 - #5 ADDITIONAL BARS 7-5" LONG AT EACH END OF BEAM (TOP)
- 2 - #6 BARS FULL LENGTH RUN (BOTTOM)

QUALITY CONTROL NOTE :

- STRAND AREA IS .153 IN. SQ.
- STRAND IS LOW LAX.
- INITIAL LOAD IS 30,982 # / STRAND.
- STIRRUPS UNDER STRAND.
- REBAR IS ALL GRADE - 60.
- CONCRETE STRENGTHS: 5500 PSI AT 28 DAYS
4000 PSI AT RELEASE
- ODOT 2002 SPECIFICATIONS.



BEARING PAD LAYOUT
(PLAN VIEW)



CAMBER DETAIL
(ELEVATION)

BILL OF MATERIALS

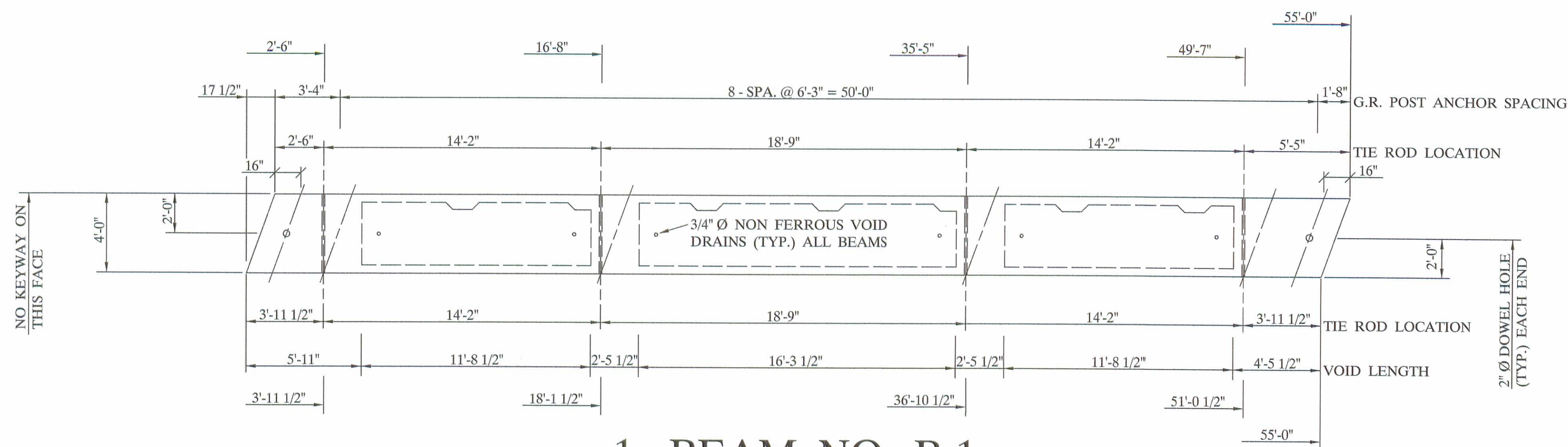
| NO | ITEM | QTY / BEAM | NOTES | TOTAL |
|----|---------------------------|------------|-----------------------------|------------|
| 1 | BEAM WEIGHT | | 49,109 # | |
| 2 | CONCRETE | 11.8 CY. | | 70.8 CY. |
| 3 | CALCIUM NITRITE (D.C.I.) | 47.2 GAL. | 4 - GAL. / CY. | 283.2 GAL. |
| 4 | STRAND | | 1/2" Ø STRAND 270 KSI LL. | 7,040 L.F. |
| 5 | RE - STEEL | | ✓ GRADE - 60 | 7,939 # |
| 6 | VOID | | 16 1/2" X 38" | 253 L.F. |
| 7 | VOID DRAINS | | 3/4" Ø NON FERROUS | 36 EA. |
| 8 | TIE ROD | 8'-0" | 1" Ø STEEL ROD | 20 EA. |
| 9 | TIE ROD SLEEVES | | | 160 L.F. |
| 10 | TYPE - B - ANCHORS | | | 36 EA. |
| 11 | TYPE - C - ANCHORS | | | 18 EA. |
| 12 | DOWELS & SLEEVES | | | 12 EA. |
| 13 | WASSER | | MC - TAR | 0.7 GAL. |
| 14 | SILANE | | | 3.0 GAL. |
| 15 | JUTE | | | 275 L.F. |
| 16 | BEARING PADS | | 1" X 5" X 12" , 1 - LAM. | 24 EA. |
| 17 | GUARDRAIL POST | | TYPE - 2 | 18 EA. |
| 18 | OFF DECK POST | | (SHIP LOOSE) | 8 EA. |
| 19 | GUARDRAIL ELEMENT | | | 125 L.F. |
| 20 | TUBULAR BACK - UP | | | 125 L.F. |
| 21 | NON SHRINK GROUT ADDITIVE | | 1 1/4 CY. GROUT (BY OTHERS) | 11 LBS. |



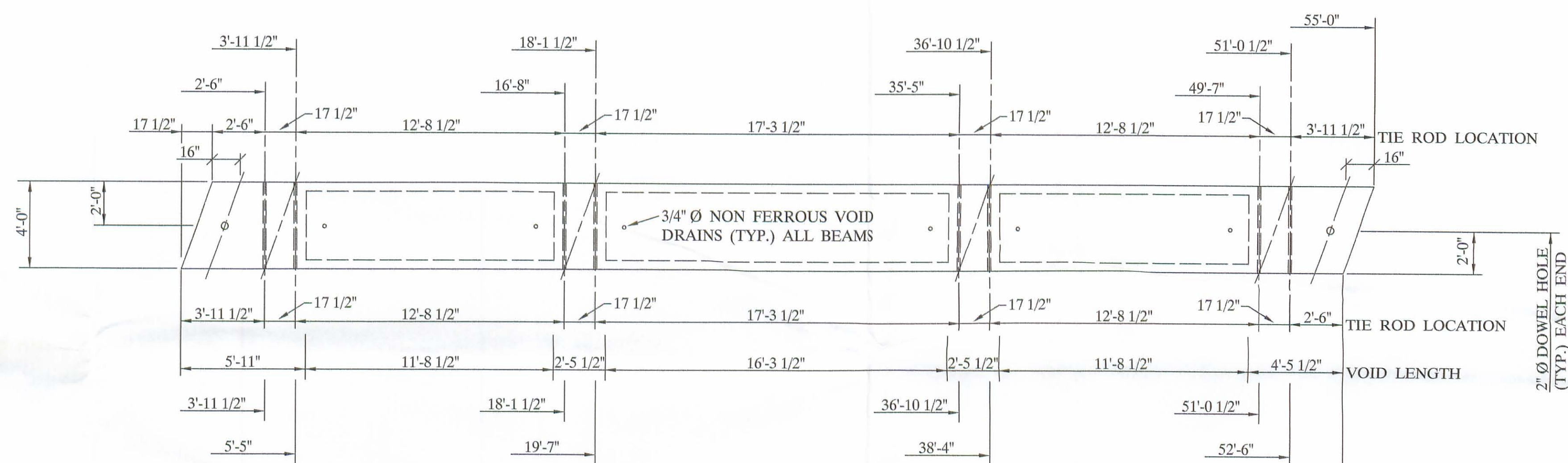
UNITED PRECAST INC.
 ROUNDHOUSE LANE
 MOUNT VERNON , OHIO 43050
 PHONE : (740) 393-1121
 FAX : (740) 392-9708

| | | | |
|--------------|---|----------------------|-----------------------|
| DESCRIPTION: | BOX BEAM DETAILS | SCALE: | DRAWN BY: |
| JOB NAME: | ITEM 515 BRIDGE NO. LOG - 242 - 0.21 LOGAN COUNTY | PROJECT NO. T.R. 242 | PHIL |
| DATE: | SEPTEMBER 2005 | APPROVED BY: | REvised: |
| | | E.O.C. 9/16/05 | DRAWING NO. 1 OF 4 |

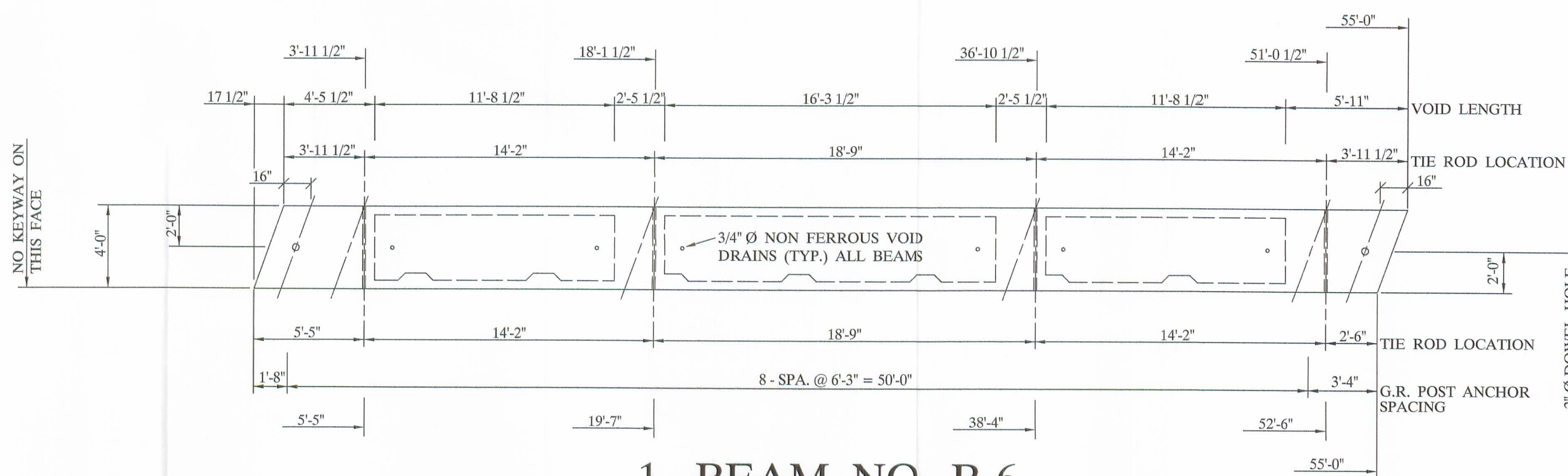
SEP 20 2005



1 - BEAM NO. B-1
(PLAN VIEW)



4 - BEAM NO. B-2, B-3, B-4, & B-5
(PLAN VIEW)



1 - BEAM NO. B-6
(PLAN VIEW)

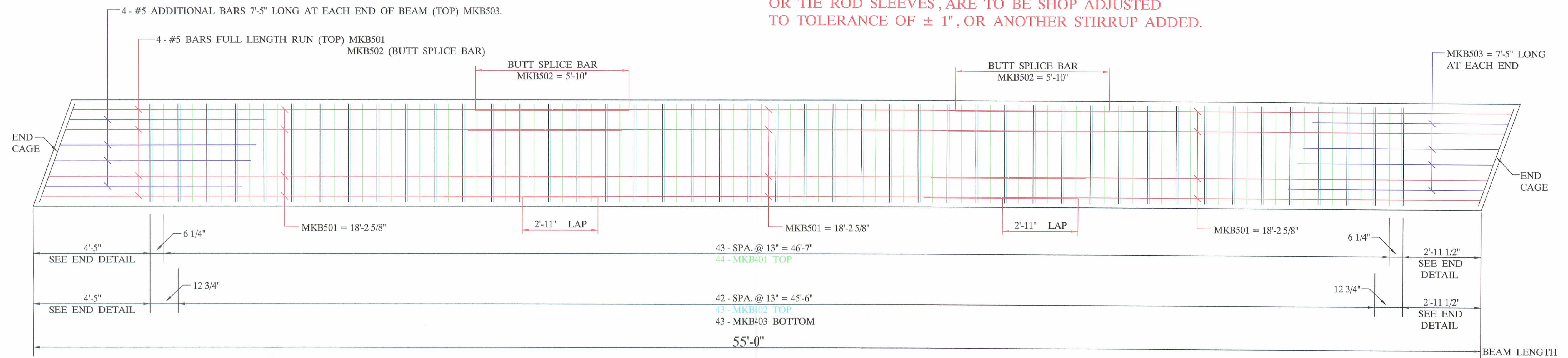


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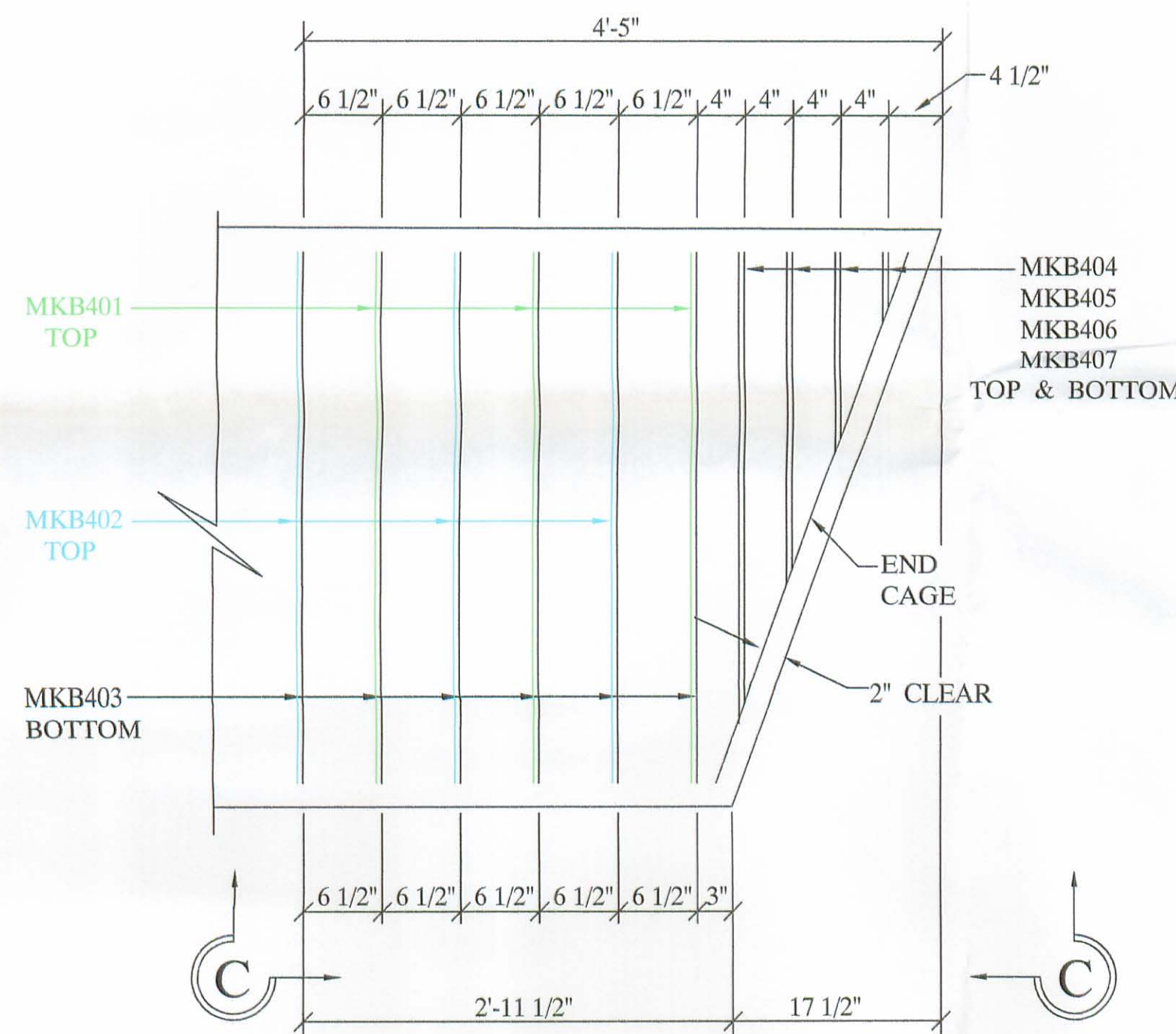
| | | | |
|--------------|---|----------------------|-----------------------|
| DESCRIPTION: | BOX BEAM DETAILS | SCALE: | DRAWN BY: |
| JOB NAME: | ITEM 515 BRIDGE NO. LOG - 242 - 0.21 LOGAN COUNTY | PROJECT NO. T.R. 242 | PHIL |
| DATE: | SEPTEMBER 2005 | APPROVED BY: | REVISD: |
| | | E.O.C. | 9/16/05 |
| | | | DRAWING NO. 2 OF 4 |

NOTE :

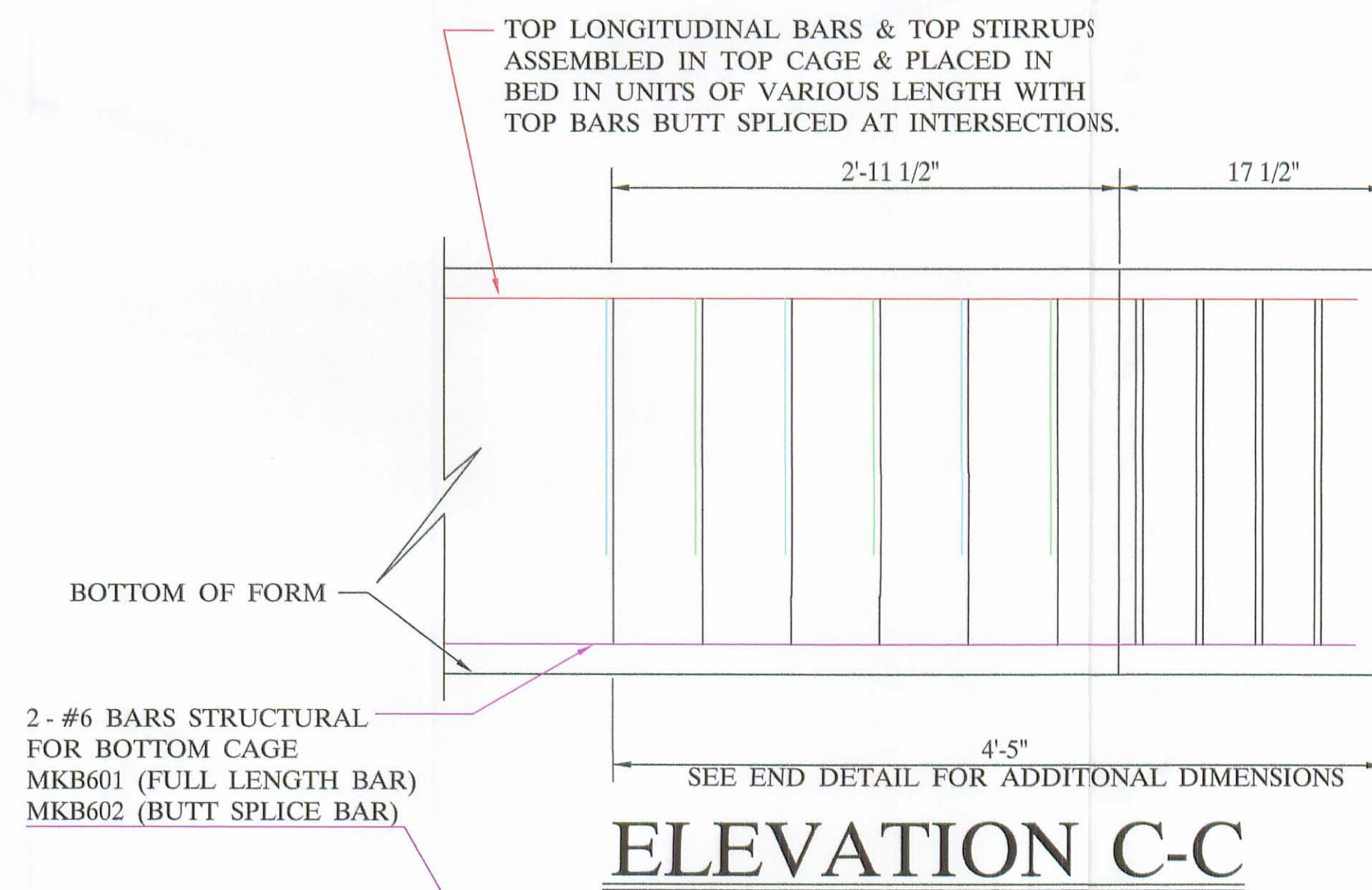
STIRRUPS IN CONFLICT WITH GUARDRAIL ANCHORS AND OR TIE ROD SLEEVES, ARE TO BE SHOP ADJUSTED TO TOLERANCE OF ± 1", OR ANOTHER STIRRUP ADDED.



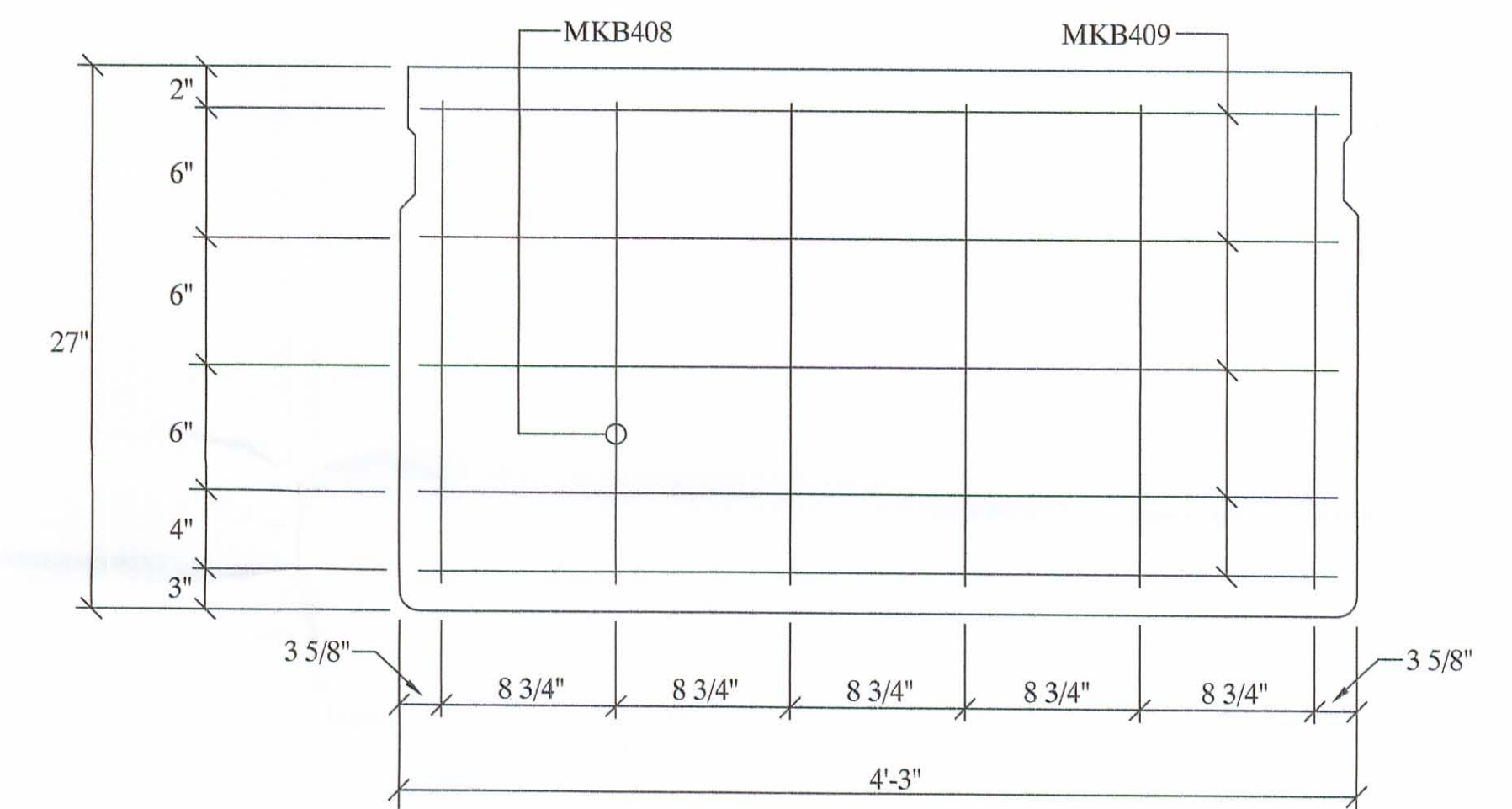
REINFORCING LAYOUT
(PLAN VIEW)



(TYP.) END DETAIL
(WITH SKEW)
(PLAN VIEW)



ELEVATION C-C



BEAM END CAGE
(WITH SKEW)
(ELEVATION)

6 - B27-48 X 55'-0" WITH 20° L.F. SKEW
BAR LIST

| MARK | SIZE | LENGTH | QUANTITY | SHAPE | A | B | C | D | E |
|------|------|------------|----------|----------|------------|-----|-----|----|-----|
| B401 | 4 | 6'-2 1/2" | 300 | TYPE - 1 | 43" | 17" | 7" | 2" | 25" |
| B402 | 4 | 6'-2 1/2" | 294 | TYPE - 1 | 43" | 17" | 13" | 2" | 13" |
| B403 | 4 | 7'-2 1/2" | 330 | TYPE - 2 | 43" | 23" | | | |
| B404 | 4 | 4'-0 1/2" | 24 | TYPE - 4 | 5" | 23" | | | |
| B405 | 4 | 4'-11 1/2" | 24 | TYPE - 3 | 16" | 23" | | | |
| B406 | 4 | 5'-10 1/2" | 24 | TYPE - 3 | 27" | 23" | | | |
| B407 | 4 | 6'-9 1/2" | 24 | TYPE - 3 | 38" | 23" | | | |
| B408 | 4 | 1'-11" | 72 | TYPE - 3 | 23" | | | | |
| B409 | 4 | 3'-8 3/4" | 60 | TYPE - 3 | 44 3/4" | | | | |
| B501 | 5 | 18'-2 5/8" | 72 | TYPE - 3 | 18'-2 5/8" | | | | |
| B502 | 5 | 5'-10" | 48 | TYPE - 3 | 5'-10" | | | | |
| B503 | 5 | 7'-5" | 48 | TYPE - 3 | 7'-5" | | | | |
| B601 | 6 | 18'-2 5/8" | 36 | TYPE - 3 | 18'-2 5/8" | | | | |
| B602 | 6 | 6'-8" | 24 | TYPE - 3 | 6'-8" | | | | |



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| | | | |
|----------------|---|----------------------|-------------|
| DESCRIPTION: | REINFORCING DETAILS | SCALE: | DRAWN BY: |
| JOB NAME: | ITEM 515 BRIDGE NO. LOG - 242 - 0.21 LOGAN COUNTY | PROJECT NO. T.R. 242 | PHIL |
| DATE: | APPROVED BY: | REVISIONS: | DRAWING NO. |
| SEPTEMBER 2005 | E.O.C. 9/16/05 | | 3 OF 4 |

