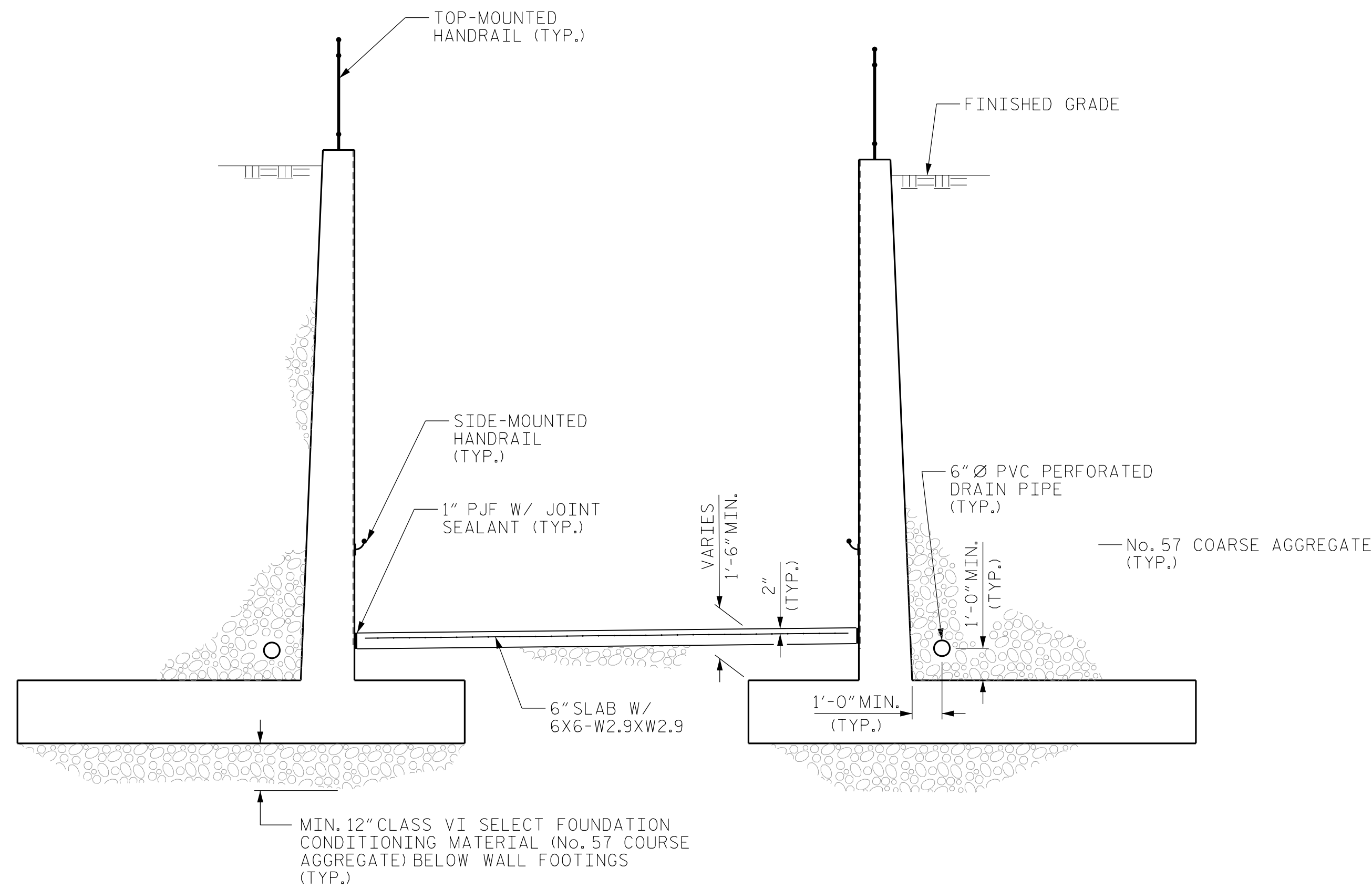


**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

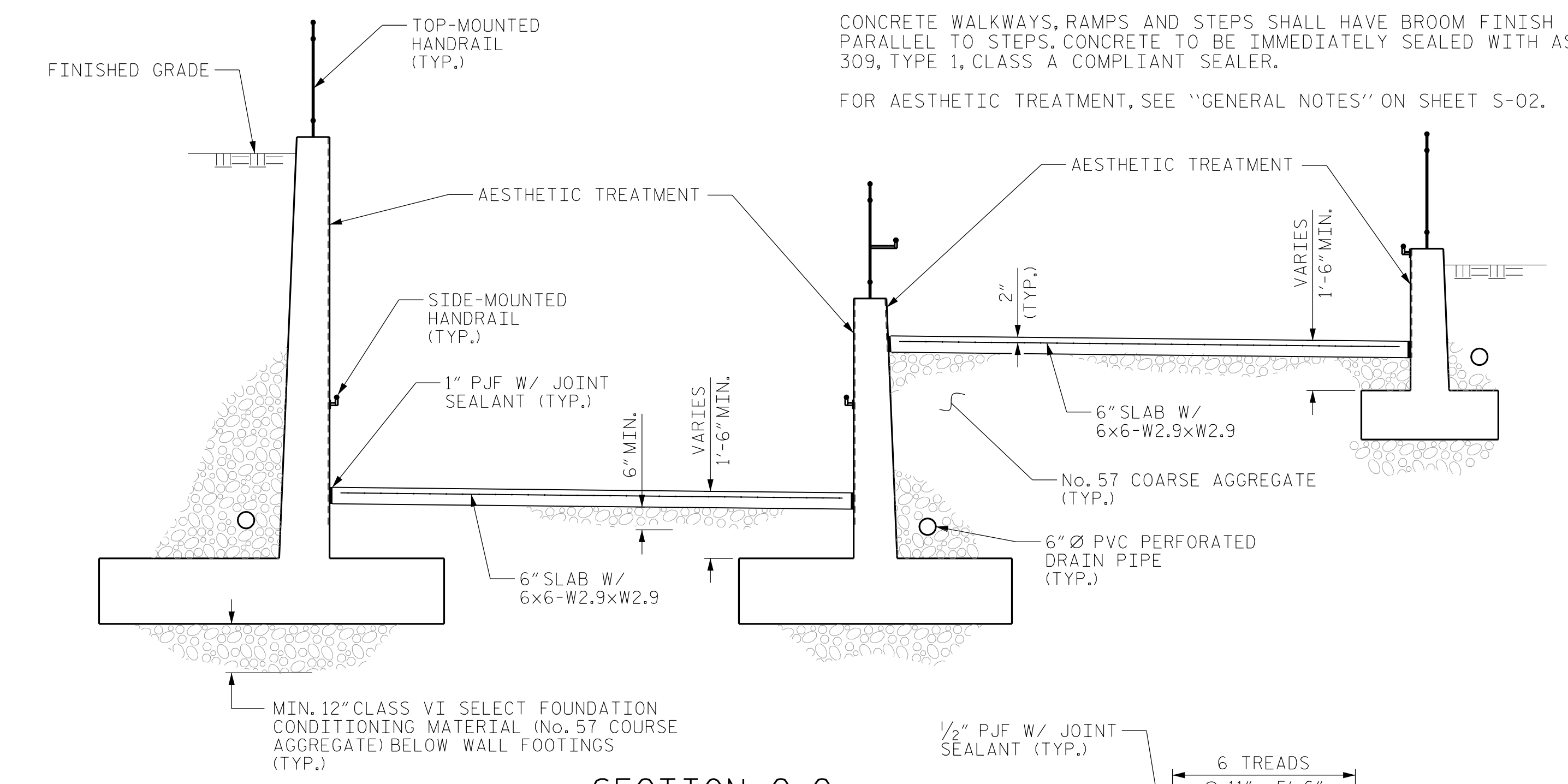
**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
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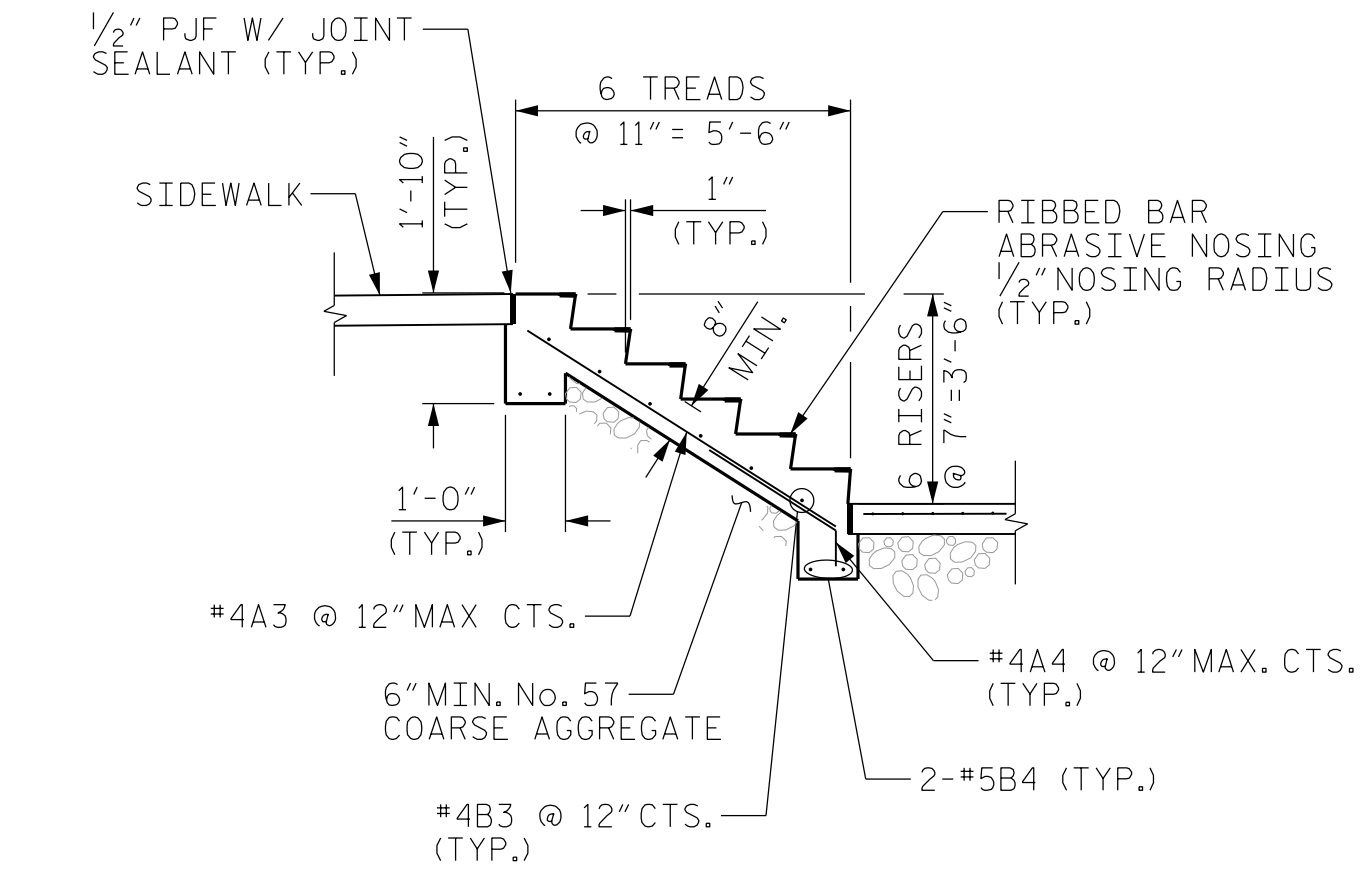
NOTE:
 RIBBED BAR ABRASIVE STAIR TREAD NOSING SHALL BE SHORT NOSE W/ ALUMINUM EXTRUDED ANCHOR OR DRILLED FOR BOLT IN. NOSING SHALL TERMINATE NO MORE THAN 3" FROM END OF STEPS. PRODUCT TYPE, SIZE AND COLOR SHALL BE SUBMITTED TO THE DEPARTMENT FOR ACCEPTANCE.
 CONCRETE WALKWAYS, RAMPS AND STEPS SHALL HAVE BROOM FINISH PARALLEL TO STEPS. CONCRETE TO BE IMMEDIATELY SEALED WITH ASTM 309, TYPE 1, CLASS A COMPLIANT SEALER.
 FOR AESTHETIC TREATMENT, SEE "GENERAL NOTES" ON SHEET S-02.



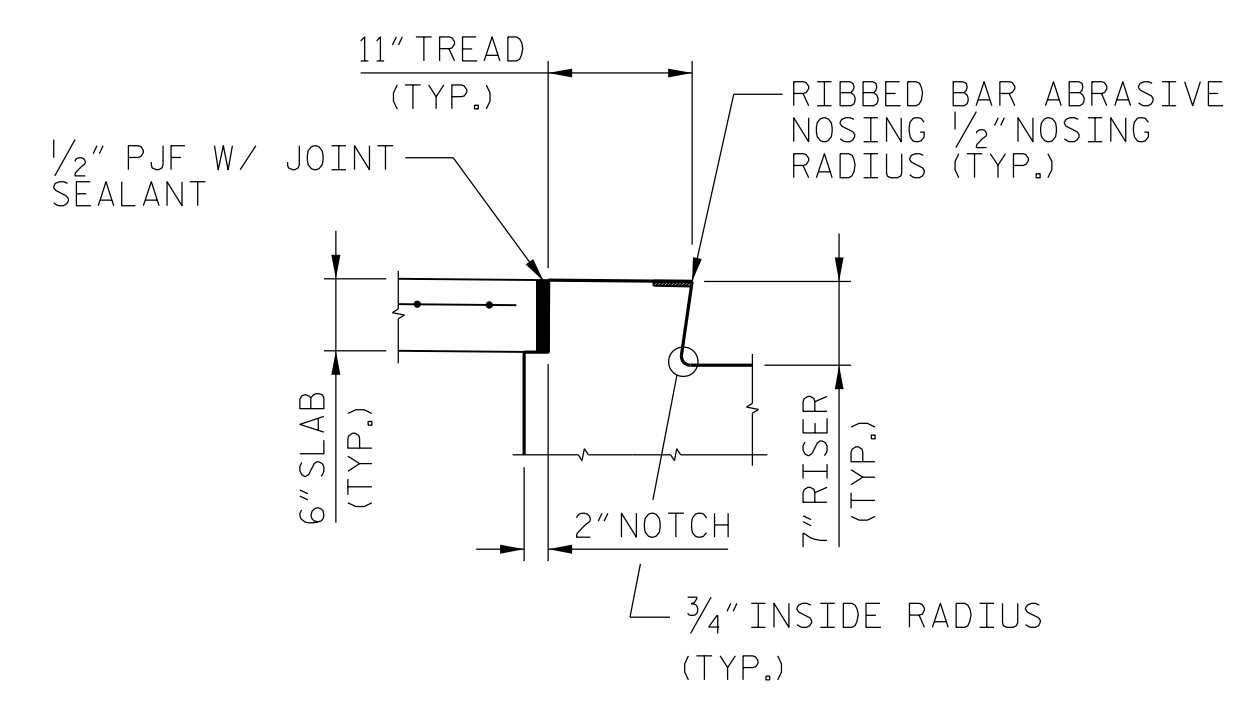
SECTION A-A



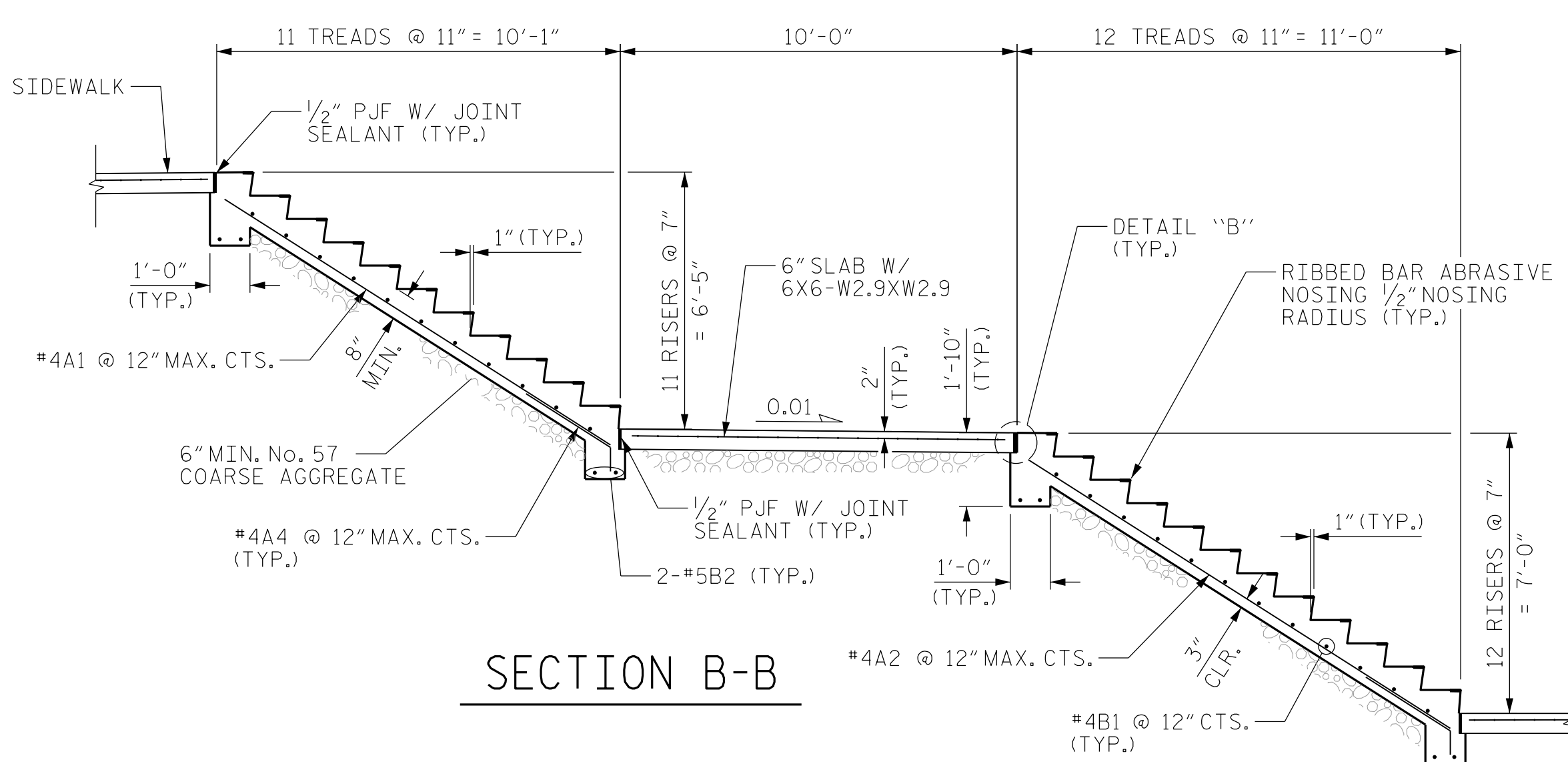
SECTION C-C



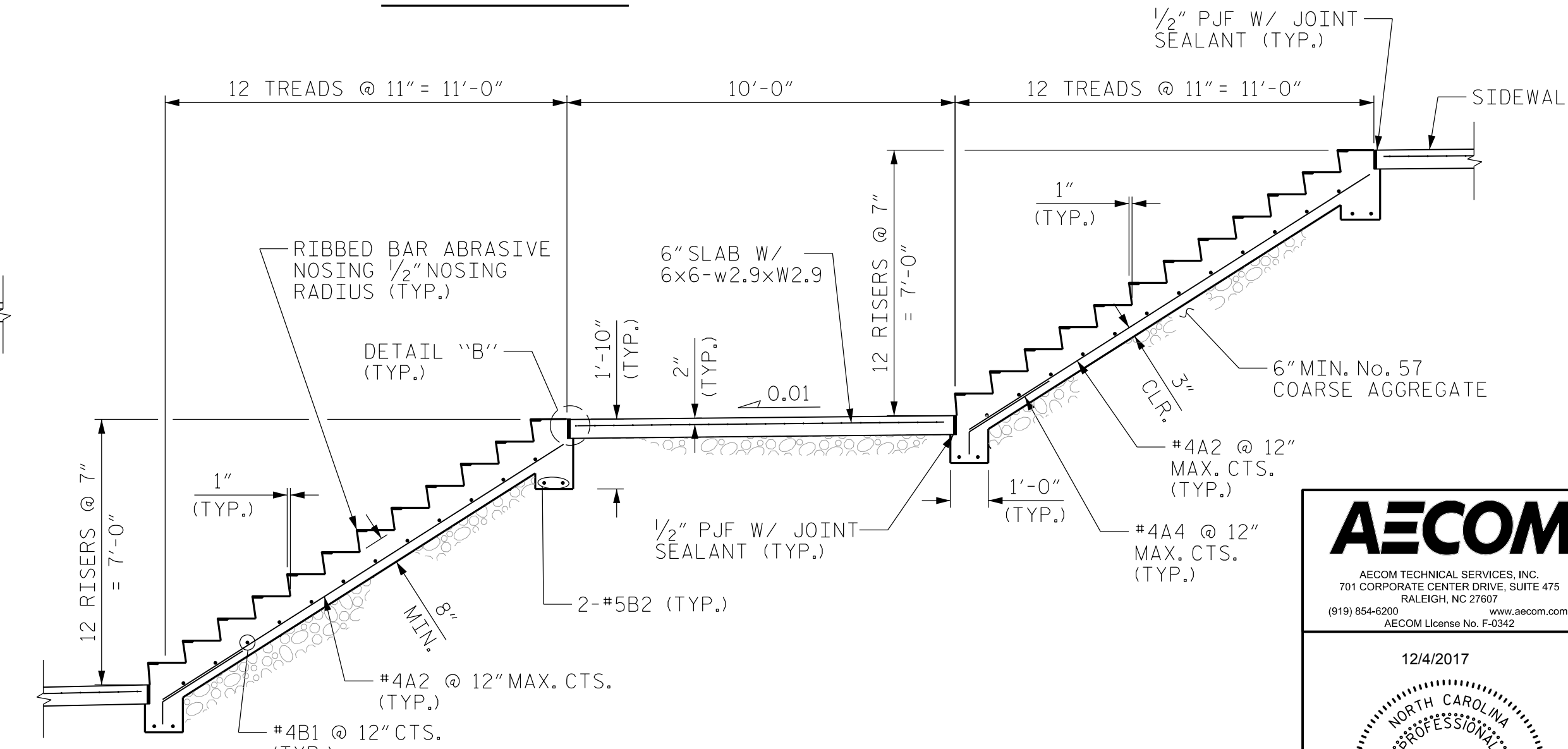
SECTION E-E



DETAIL "B"



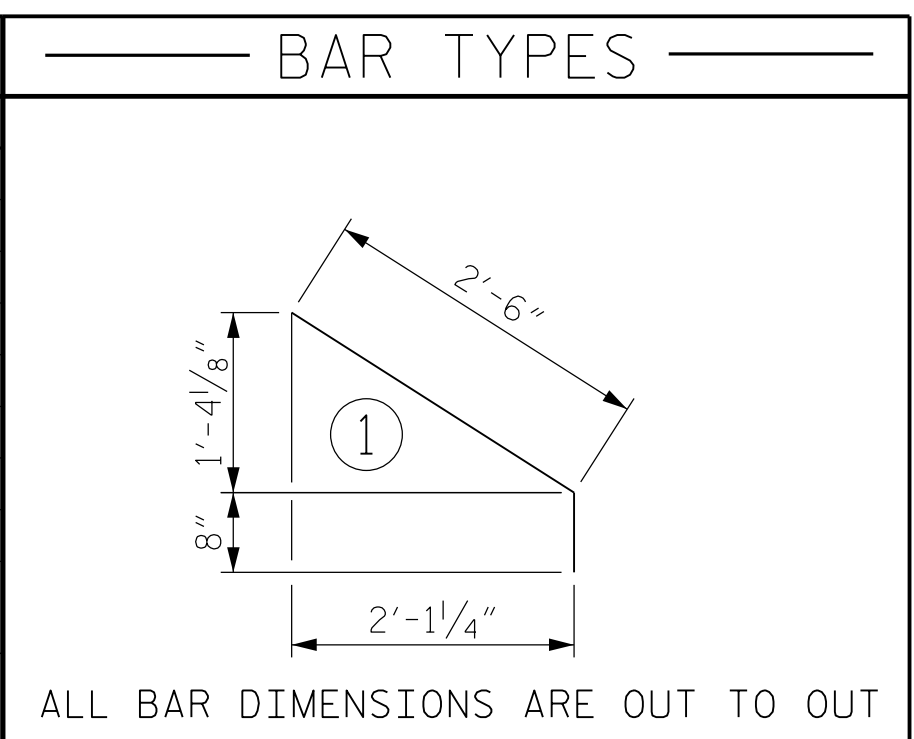
SECTION B-B



SECTION D-D

PROJECT NO. W-5522
WAKE COUNTY
 STATION: 15+58.58 -L-
11+28.22 -Y1-
 SHEET 2 OF 2

| STAIRS - BILL OF MATERIAL | | | | | |
|---------------------------|-----|------|------|--------|--------|
| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
| A1 | 17 | #4 | STR | 11'-6" | 131 |
| A2 | 51 | #4 | STR | 12'-6" | 426 |
| A3 | 9 | #4 | STR | 6'-1" | 37 |
| A4 | 77 | #4 | (1) | 3'-2" | 163 |
| B1 | 47 | #4 | STR | 15'-6" | 487 |
| B2 | 16 | #5 | STR | 15'-6" | 259 |
| B3 | 6 | #4 | STR | 7'-6" | 30 |
| B4 | 4 | #5 | STR | 7'-6" | 31 |
| REINFORCING STEEL | | | | LBS. | 1,564 |
| CLASS A CONCRETE | | | | CY | 36.1 |



DATE: 12/14/2017 TIME: 5:16:42 AM
 USER: jmorrisson DON: W:\Morrison\Projects\W-5522 Trinity Rd Per W5522 Structures\Code\410_030_W5522_SML_S06_WALK.dgn

DRAWN BY: M.TOM DATE: 09/2017
 CHECKED BY: C.MORRISON DATE: 09/2017
 DESIGNED BY: T.KLOTZ DATE: 09/2017

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12/14/2017

NORTH CAROLINA PROFESSIONAL SEAL 030474
 ENGINEER JOHN C. MORRISON

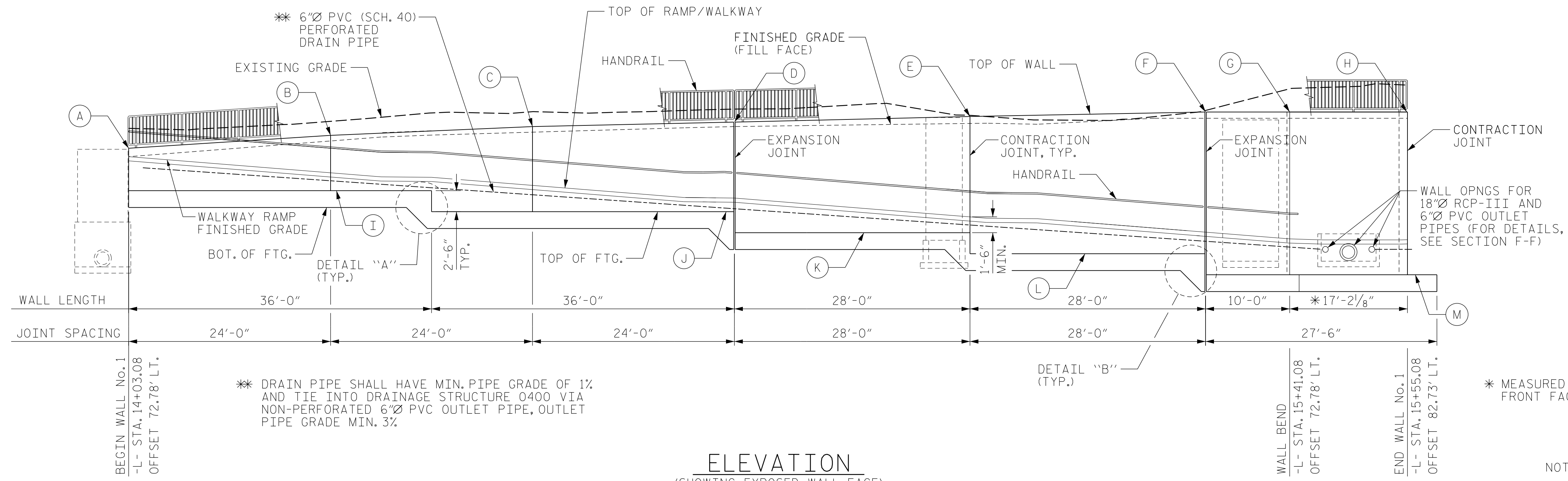
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

RAMP, WALKWAY & STAIRS
 SECTIONS AND DETAILS

| REVISIONS | | | | | |
|-----------|-----|-------|-----|-----|-------|
| NO. | BY: | DATE: | NO. | BY: | DATE: |
| 1 | | | 3 | | |
| 2 | | | 4 | | |

SHEET NO. **S-06**
 TOTAL SHEETS 31

470
460
450
440



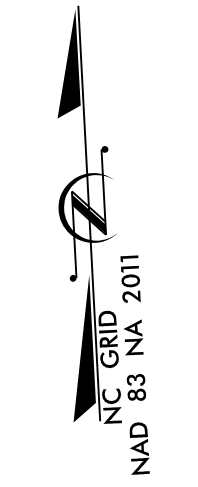
| POINT | ELEVATION |
|-------|-----------|
| (A) | 456.44 |
| (B) | 457.98 |
| (C) | 459.02 |
| (D) | 459.55 |
| (E) | 460.21 |
| (F) | 460.75 |
| (G) | 460.75 |
| (H) | 460.75 |
| (I) | 451.40 |
| (J) | 448.90 |
| (K) | 446.40 |
| (L) | 443.90 |
| (M) | 441.40 |

* DRAIN PIPE SHALL HAVE MIN. PIPE GRADE OF 1% AND TIE INTO DRAINAGE STRUCTURE 0400 VIA NON-PERFORATED 6" PVC OUTLET PIPE, OUTLET PIPE GRADE MIN. 3%.

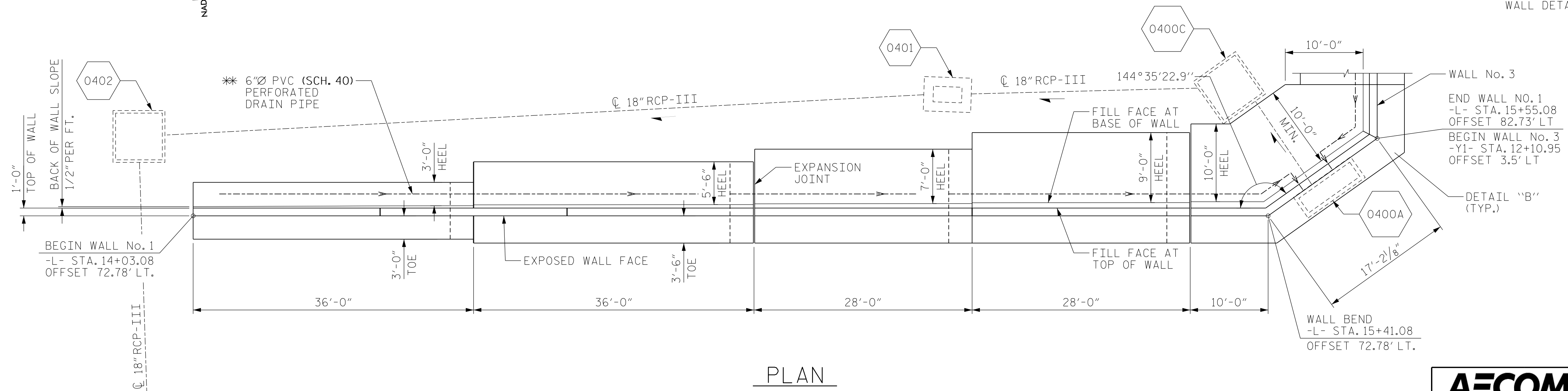
ELEVATION
(SHOWING EXPOSED WALL FACE)

* MEASURED ALONG FRONT FACE OF WALL

- NOTES:
- REFER TO DRAINAGE PLANS AND DATA FOR PIPE INVERTS; DRAINAGE STRUCTURE TYPES AND SIZES.
 - FOR WALL REINFORCING DETAILS, SEE "RETAINING WALL REINFORCING DETAILS" SHEETS.
 - SEE "TYPICAL WALL DETAILS" SHEET FOR EXPANSION AND CONTRACTION JOINT DETAILS, WALL AND OPENING DETAILS.
 - FOR HANDRAIL DETAILS, SEE "MISCELLANEOUS DETAILS" SHEETS.
 - FOR WALL DETAILS AT PIPE PENETRATIONS, SEE "RETAINING WALL DETAILS" SHEETS.



DATE: 11/17/2017
TIME: 2:54:46 PM



PLAN

PROJECT NO. W-5522
WAKE COUNTY
STATION: 15+58.58 -L-
11+28.22 -Y1-
SHEET 1 OF 7

XXXX PROPOSED DRAINAGE STRUCTURE NUMBER

DRAWN BY : M. TOM DATE : 09/2017
CHECKED BY : C. MORRISON DATE : 09/2017
DESIGNED BY : N. BROWN DATE : 09/2017

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11/8/2017

NORTH CAROLINA PROFESSIONAL SEAL 030474
ENGINEER JOHN C. MORRISON

DocuSigned by: John C. Morrison

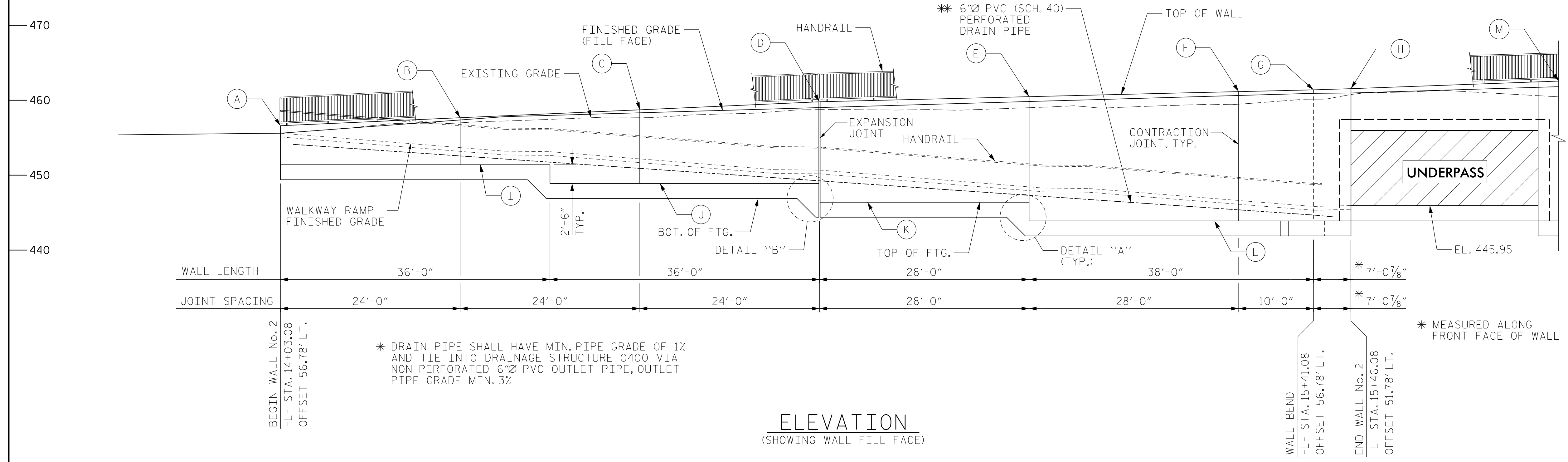
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

RETAINING WALL

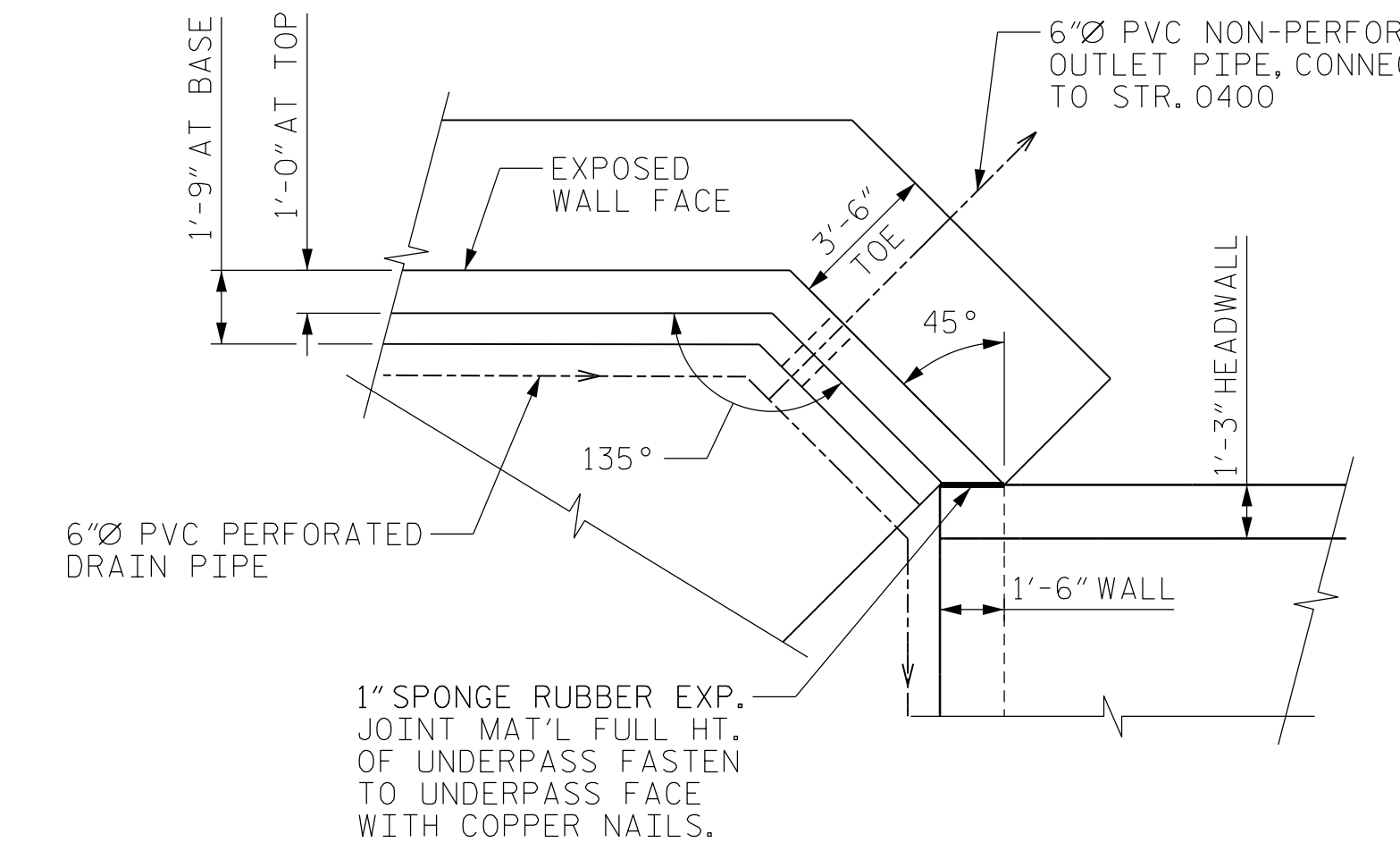
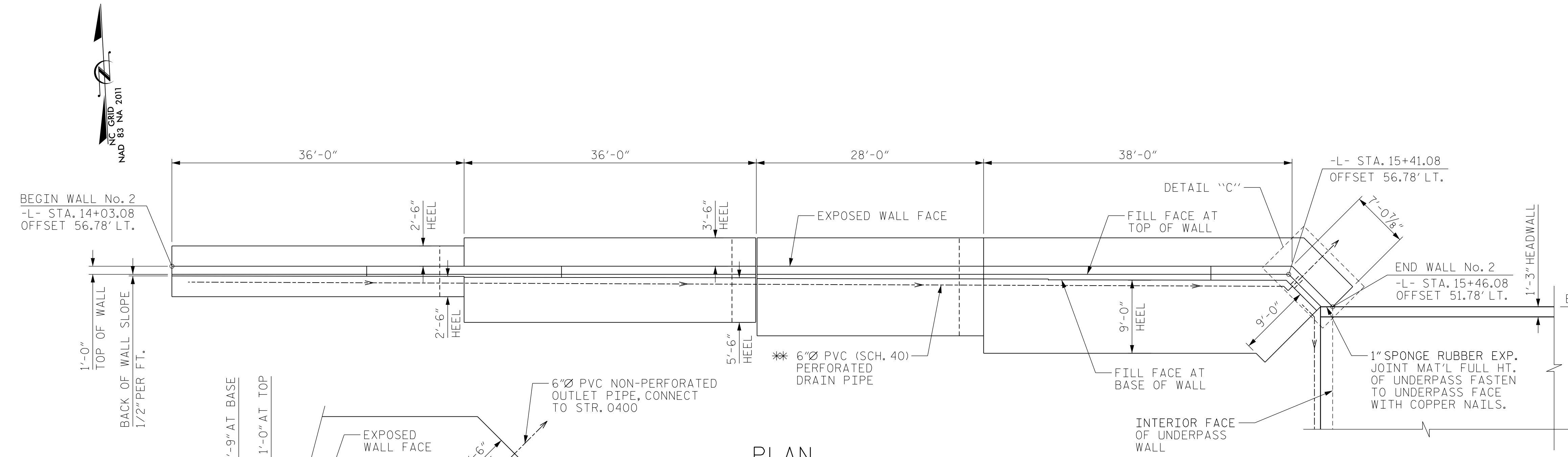
WALL 1
PLAN & ELEVATION

| REVISIONS | | | | | |
|-----------|-----|-------|-----|-----|-------|
| NO. | BY: | DATE: | NO. | BY: | DATE: |
| 1 | | | 3 | | |
| 2 | | | 4 | | |

SHEET NO. **S-07**
TOTAL SHEETS 31



| POINT | ELEVATION |
|-------|-----------|
| (A) | 456.60 |
| (B) | 457.67 |
| (C) | 458.73 |
| (D) | 459.80 |
| (E) | 460.38 |
| (F) | 461.97 |
| (G) | 461.39 |
| (H) | 461.55 |
| (I) | 451.40 |
| (J) | 448.90 |
| (K) | 446.40 |
| (L) | 443.90 |
| (M) | 462.15 |



PROJECT NO. W-5522
WAKE COUNTY
 STATION: 15+58.58 -L-
11+28.22 -Y1-
 SHEET 2 OF 7

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11/8/2017

NORTH CAROLINA PROFESSIONAL SEAL
 030474
 ENGINEER
 JOHN C. MORRISON

DocuSigned by:
 John C. Morrison
 A2F0E142C2F4A8

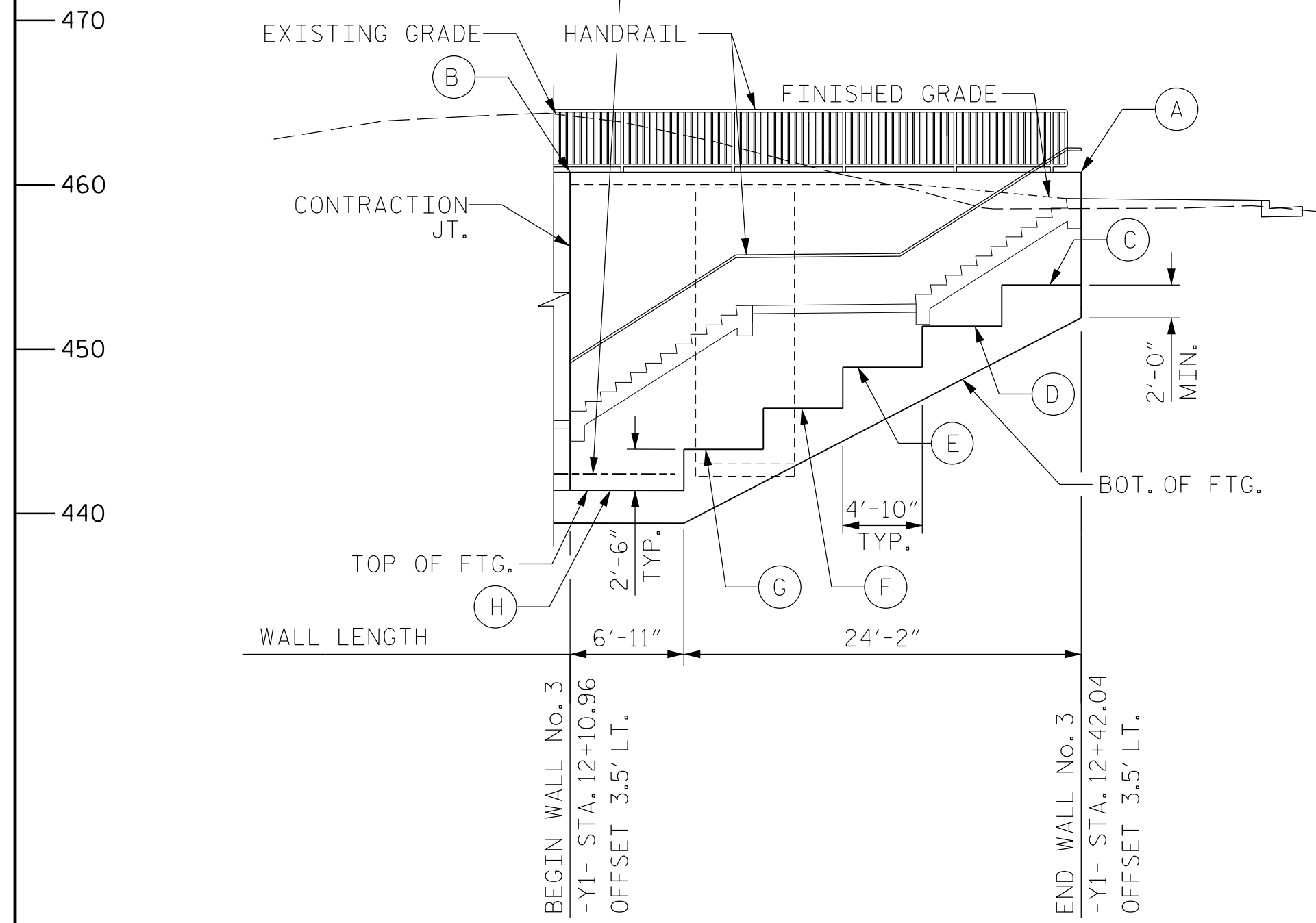
| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | TOTAL SHEETS |
| 1 | | | 3 | | | 31 |
| 2 | | | 4 | | | |

S-08

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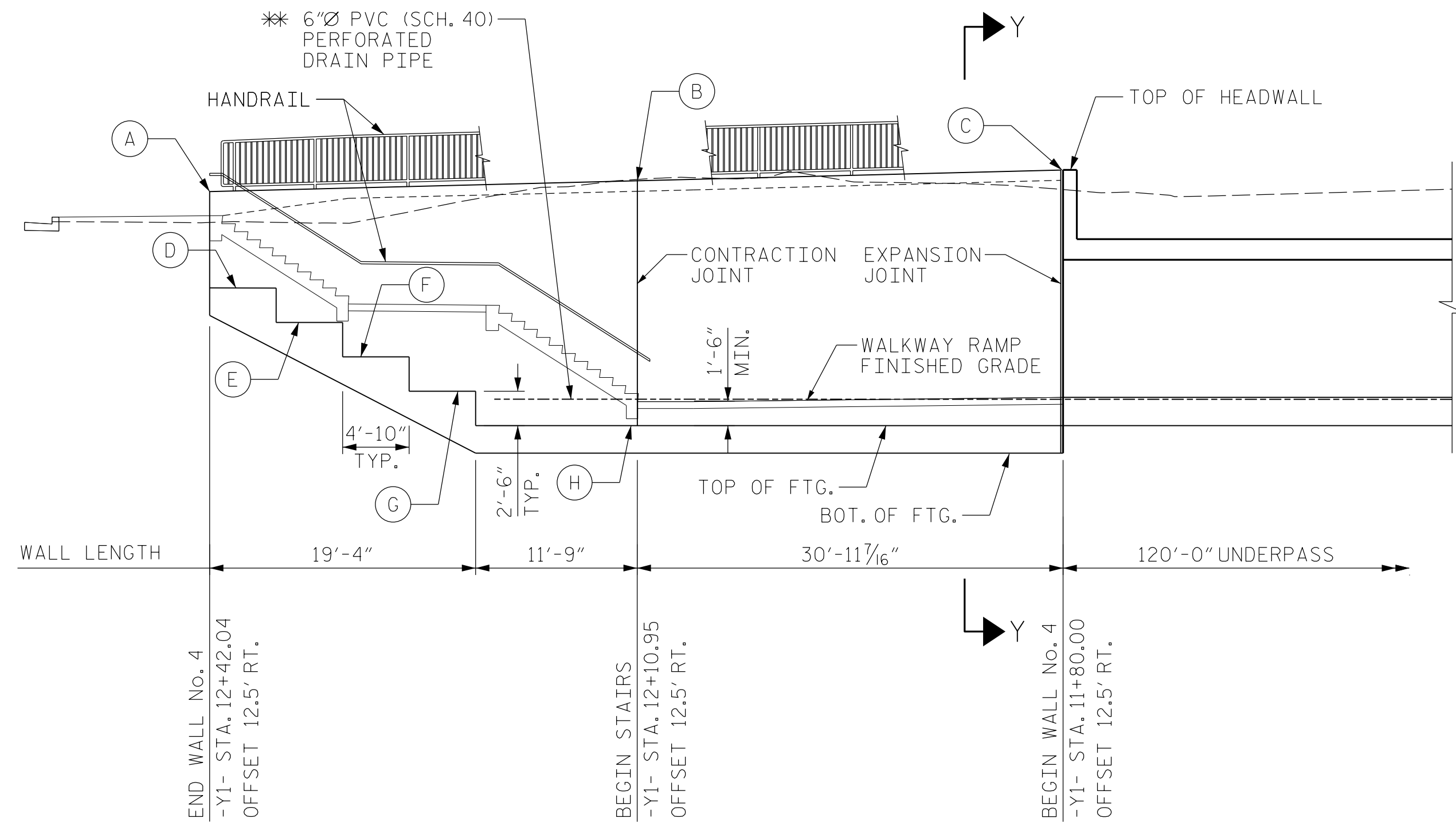
DRAWN BY : M. TOM DATE : 09/2017
 CHECKED BY : C. MORRISON DATE : 09/2017
 DESIGNED BY : M. TOM DATE : 09/2017

DATE: 11/7/2017 TIME: 2:45:52 PM
 USER: jcmr
 DN: USFAL3FF00DariaMorrison@vobas3w-5522 Trinity Rd. PegW5522StructuresCadd410_CAD_W5522.SML_S08_RV.dgn



| POINT | ELEVATION |
|-------|-----------|
| (A) | 460.65 |
| (B) | 460.40 |
| (C) | 453.90 |
| (D) | 451.40 |
| (E) | 448.90 |
| (F) | 446.40 |
| (G) | 443.90 |
| (H) | 441.40 |

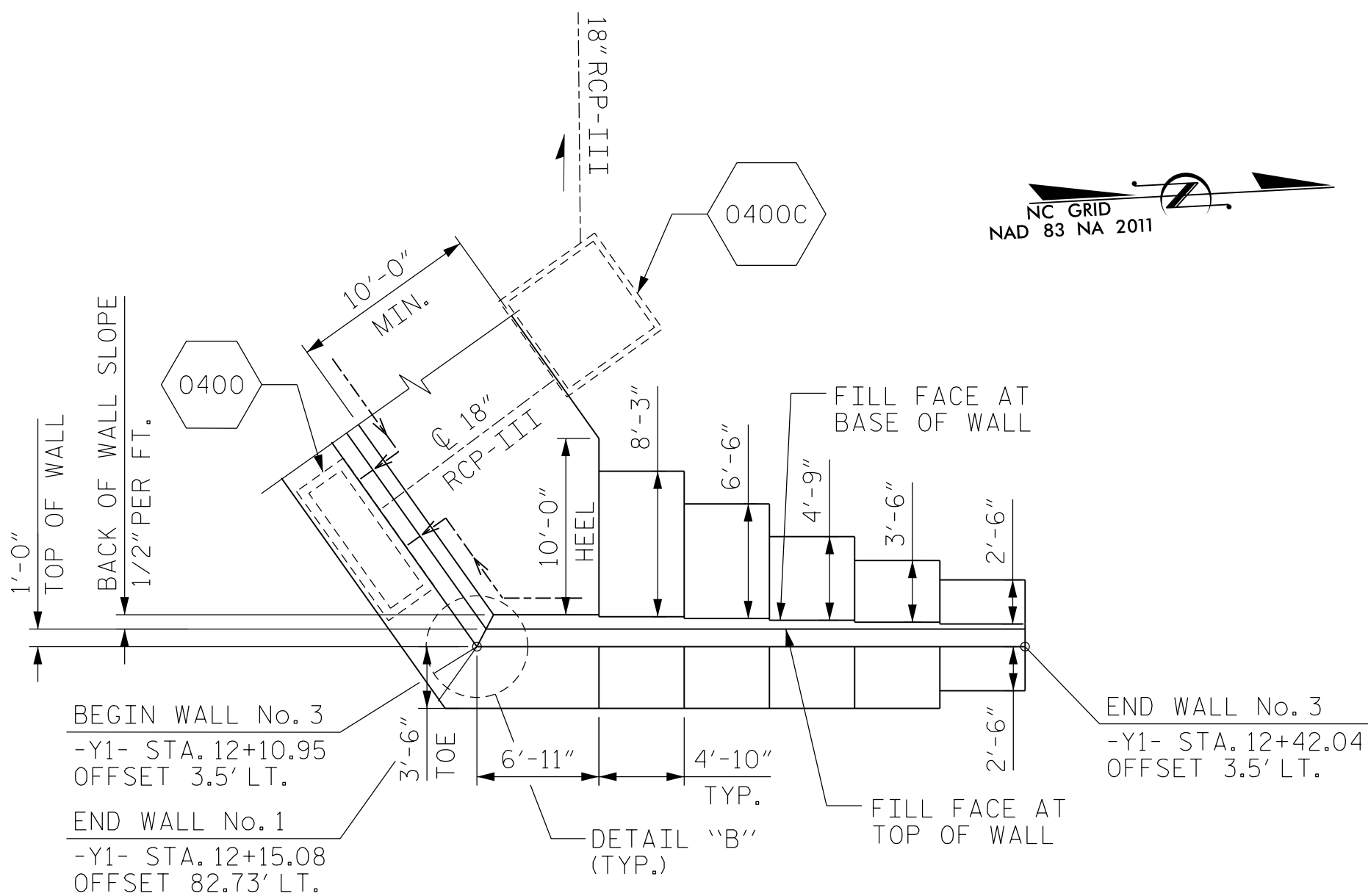
ELEVATION - WALL 3
(SHOWING EXPOSED WALL FACE)



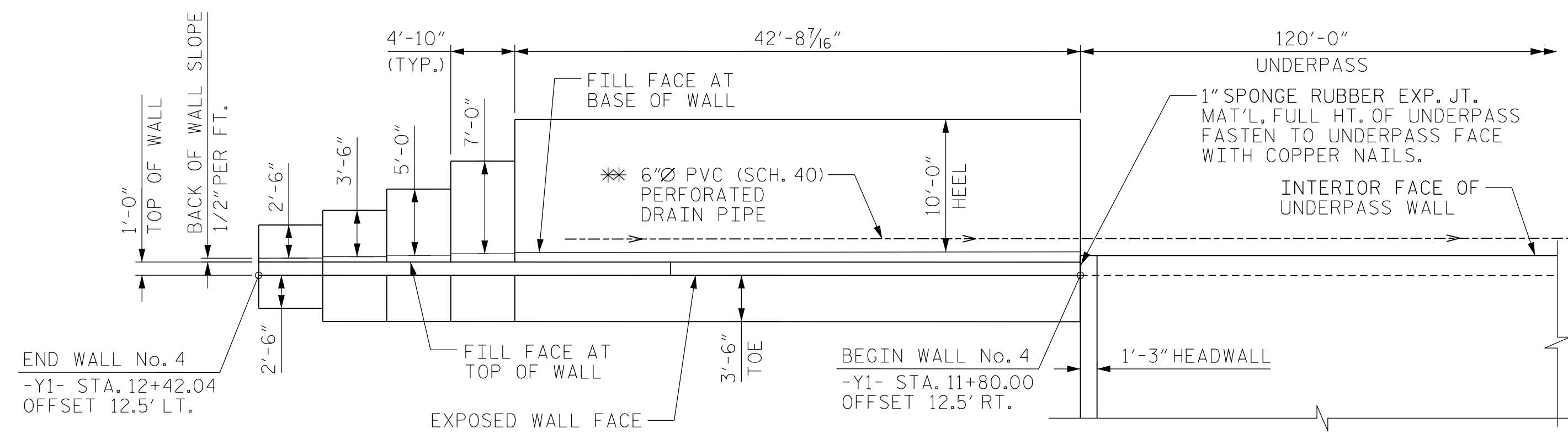
| POINT | ELEVATION |
|-------|-----------|
| (A) | 460.65 |
| (B) | 461.40 |
| (C) | 462.15 |
| (D) | 453.90 |
| (E) | 451.40 |
| (F) | 448.90 |
| (G) | 446.40 |
| (H) | 443.90 |

ELEVATION - WALL 4
(SHOWING EXPOSED WALL FACE)

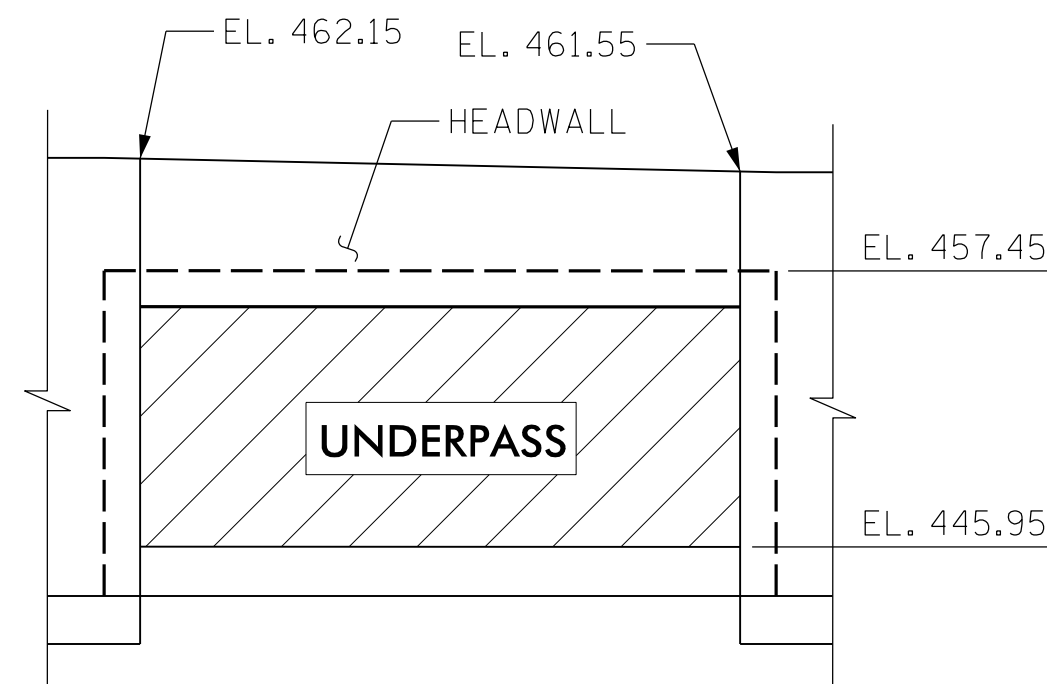
* DRAIN PIPE SHALL HAVE MIN. PIPE GRADE OF 1% AND TIE INTO DRAINAGE STRUCTURE 0400 VIA NON-PERFORATED 6" PVC OUTLET PIPE, OUTLET PIPE GRADE MIN. 3%.



PLAN - WALL 3

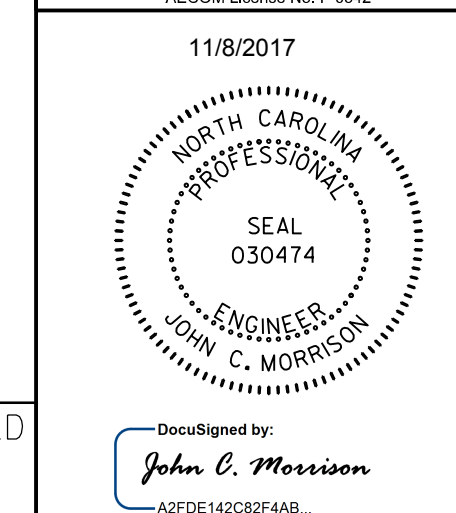


PLAN - WALL 4



SECTION Y-Y
(END OF UNDERPASS)

PROJECT NO. W-5522
WAKE COUNTY
 STATION: 15+58.58 -L-
11+28.22 -Y1-
 SHEET 3 OF 7



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

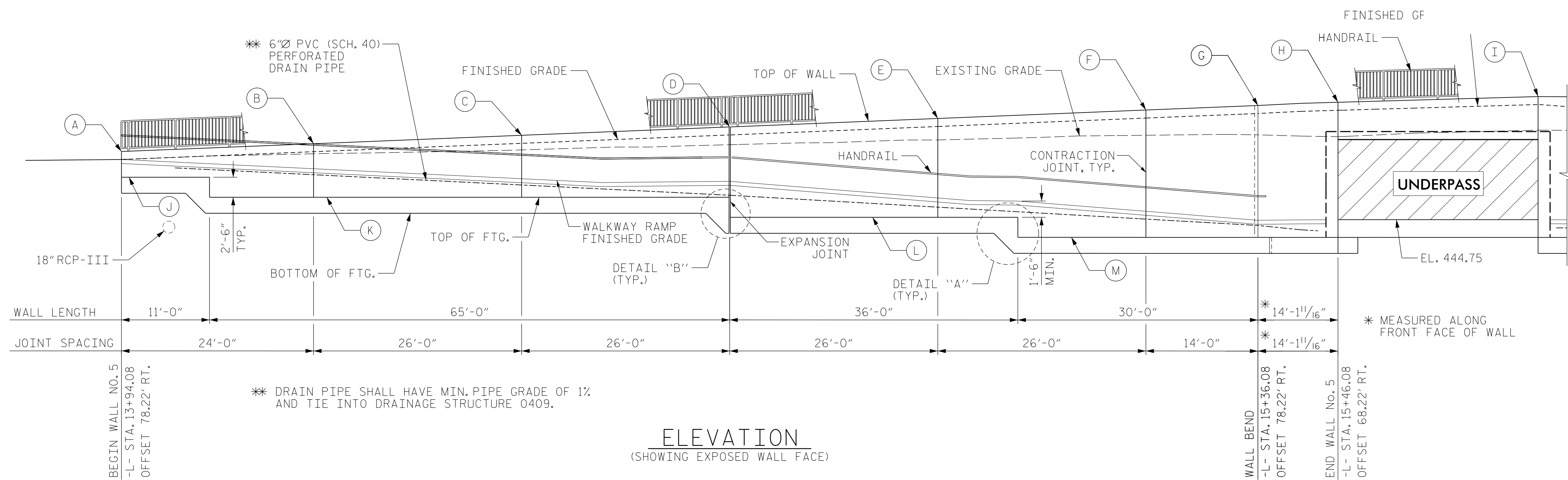
RETAINING WALL
 WALL 3 & 4
 PLAN & ELEVATION

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-09 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 31 |

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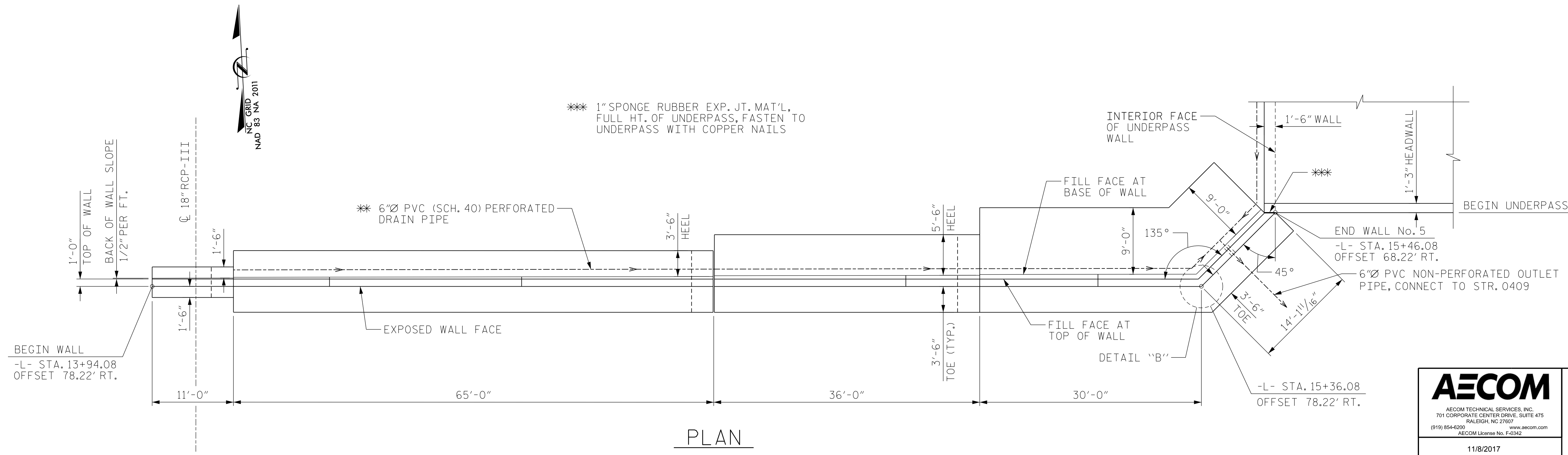
DRAWN BY : N. BROWN DATE : 09/2017
 CHECKED BY : C. MORRISON DATE : 09/2017
 DESIGNED BY : N. BROWN DATE : 09/2017

DATE: 11/27/2017 TIME: 2:45:58 PM
 USER: \\USFAL3\F001\John.Morrison\Jobs\W-5522\Trinity Rd. Peg\W5522\Structures\Cadd\40_045_W5522_3ML_S09_RV.dgn



| POINT | ELEVATION |
|-------|-----------|
| (A) | 453.25 |
| (B) | 454.22 |
| (C) | 455.27 |
| (D) | 456.32 |
| (E) | 457.38 |
| (F) | 458.43 |
| (G) | 459.00 |
| (H) | 459.40 |
| (I) | 460.12 |
| (J) | 450.04 |
| (K) | 447.54 |
| (L) | 445.04 |
| (M) | 442.54 |

DATE: 11/7/2017 TIME: 2:46:02 PM
 USER: JRM/DM
 DN: \\USFAL3\F001\Data\Morrison\Jobs\W-5522\Trinity Rd_PegW5522\Structures\Cadd\410_050_W5522_SKU_S10_RW.dgn



PROJECT NO. W-5522
 WAKE COUNTY
 STATION: 15+58.58 -L-
11+28.22 -Y1-
 SHEET 4 OF 7

DRAWN BY : N. BROWN DATE : 09/2017
 CHECKED BY : C. MORRISON DATE : 09/2017
 DESIGNED BY : N. BROWN DATE : 09/2017

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NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL
 030474
 JOHN C. MORRISON

DocuSigned by:
 John C. Morrison
 A2FDE142625F4A8

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

RETAINING WALL
 WALL 5
 PLAN & ELEVATION

| REVISIONS | | | |
|-----------|-----|-------|-----|
| NO. | BY: | DATE: | NO. |
| 1 | | | 3 |
| 2 | | | 4 |

SHEET NO. **S-10**
 TOTAL SHEETS **31**