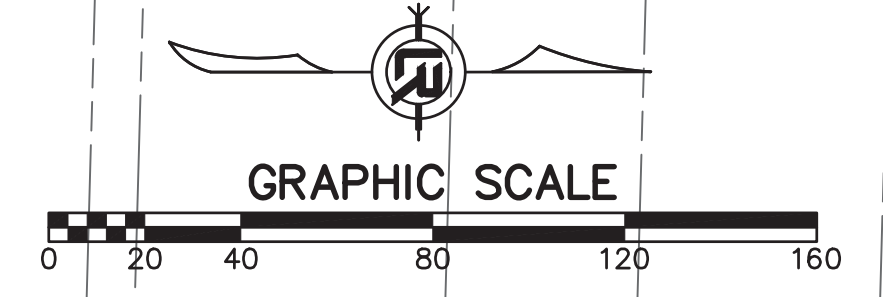


- | | | | |
|-----------------------------------|-------|--|-------|
| CONSTRUCTION - ENTRANCE/EXIT | (CO) | SILT FENCE - TYPE A | (SFA) |
| CHECK DAM | (CD) | SILT FENCE - TYPE B | (SFB) |
| DIVERSION BERM | (DI) | SILT FENCE - TYPE C | (SFC) |
| DOWNDRAIN STRUCTURE - TEMPORARY | (DN) | STORM DRAIN OUTLET PROTECTION | (ST) |
| ROCK DAM | (RD) | SURFACE ROUGHENING | (SU) |
| SEDIMENT BARRIER - SILT FENCE | (SD1) | DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION | (TS1) |
| SEDIMENT BARRIER - GRAVEL RING | (SD2) | DISTURBED AREA STABILIZATION - TEMPORARY GRASSING | (TS2) |
| SEDIMENT BARRIER - BLOCK & GRAVEL | (SD3) | DISTURBED AREA STABILIZATION - PERMANENT GRASSING | (TS3) |
| SEDIMENT BARRIER - BLOCK | (SD4) | MATTING/BLANKETS | (Mb) |
| TEMPORARY SEDIMENT BASIN | (SB1) | SODDING/SEEDING | (S) |



| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
 CHICOT ROAD IMPROVEMENTS
 EROSION CONTROL PLAN (2)

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201



DRAWN BY
 KLL
 DESIGNED
 COF
 CHECKED
 BOL
 DATE
 1-28-2020
 SCALE
 1" = 40'
 PROJECT NO.
 CLR 07-17-ST-357
 SHEET NO.
 C31

| REVISIONS | DATE |
|-----------|------|
| | |

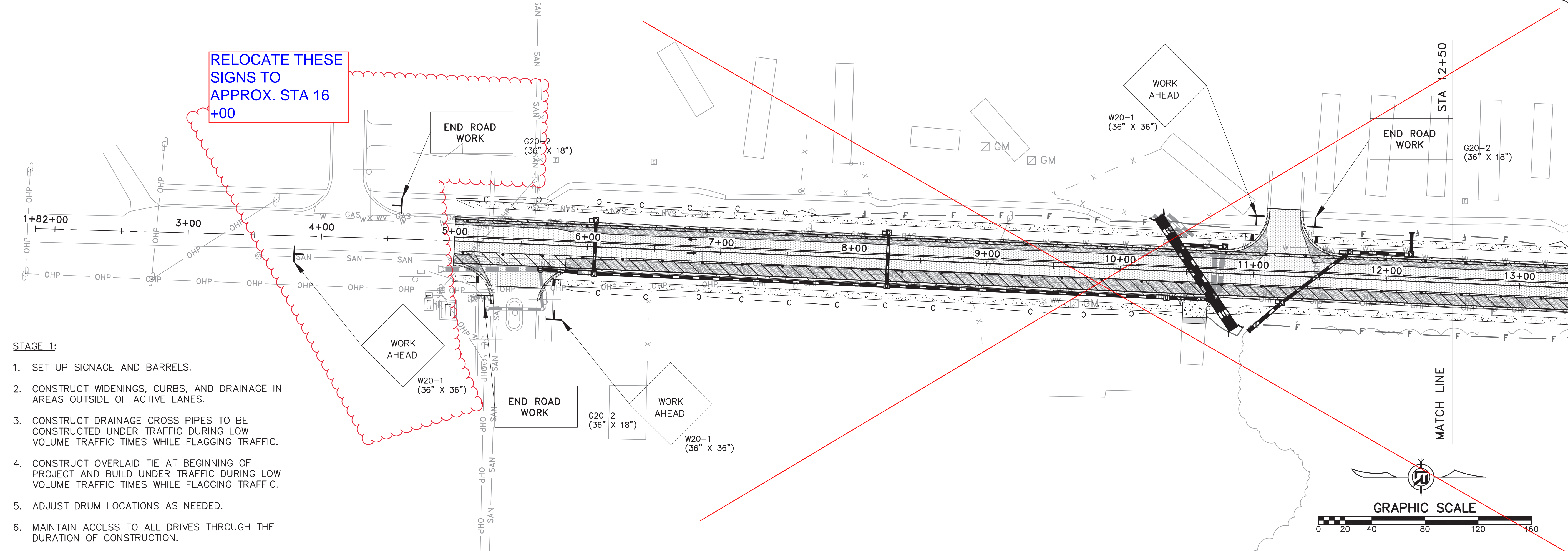
CITY OF LITTLE ROCK, ARKANSAS
 CHICOT ROAD IMPROVEMENTS
 MAINTENANCE OF TRAFFIC PLAN (1)
 PHASE I

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201

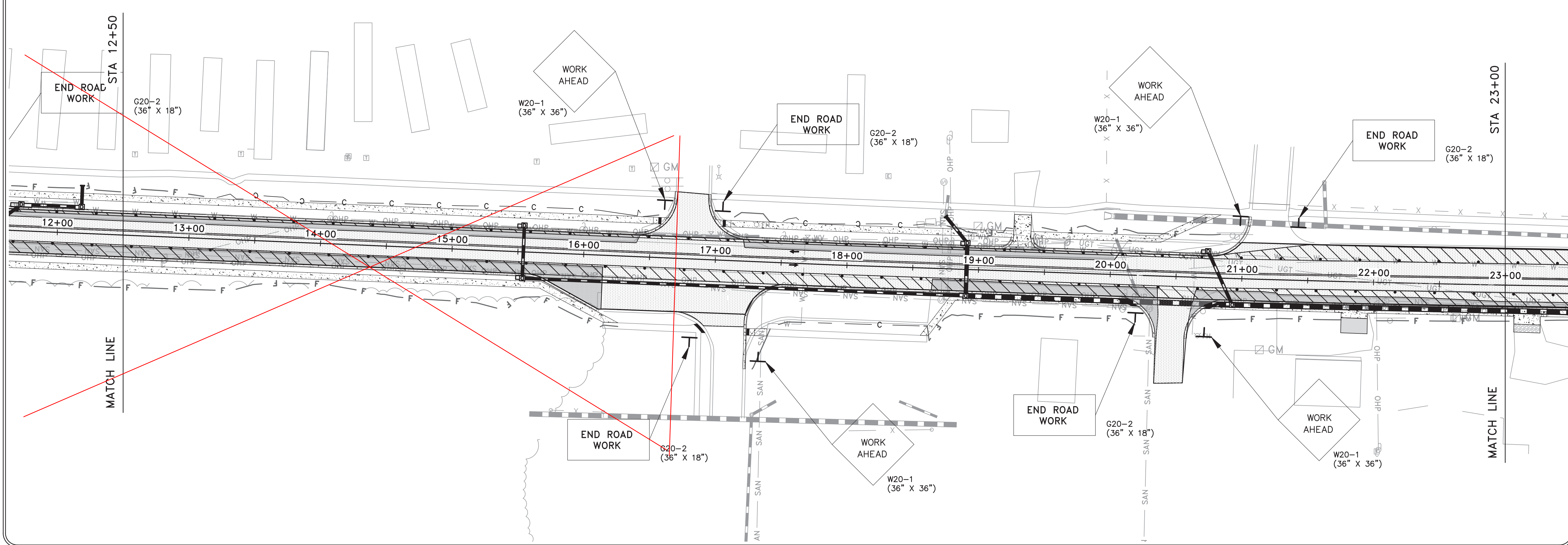


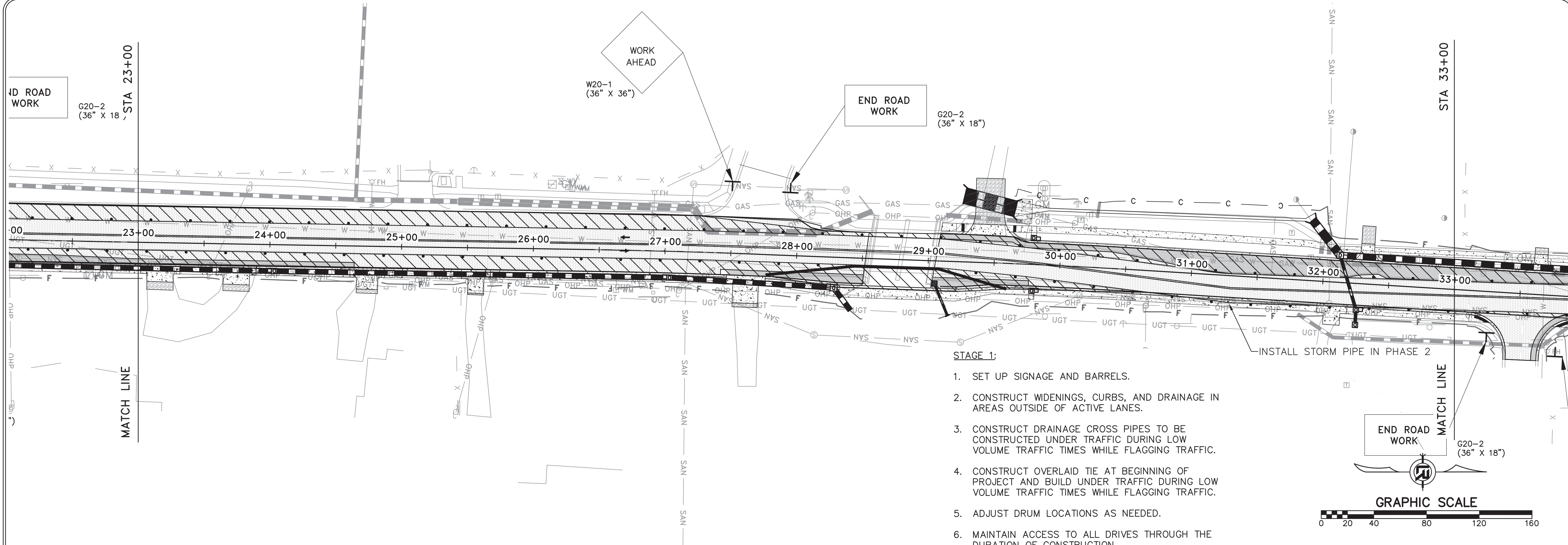
DRAWN BY
 COF
 DESIGNED
 COF
 CHECKED
 BOL
 DATE
 1-28-2020
 SCALE
 1" = 40'
 PROJECT NO.
 CLR 07-17-ST-357
 SHEET NO.
C32

RELOCATE THESE
 SIGNS TO
 APPROX. STA 16
 +00

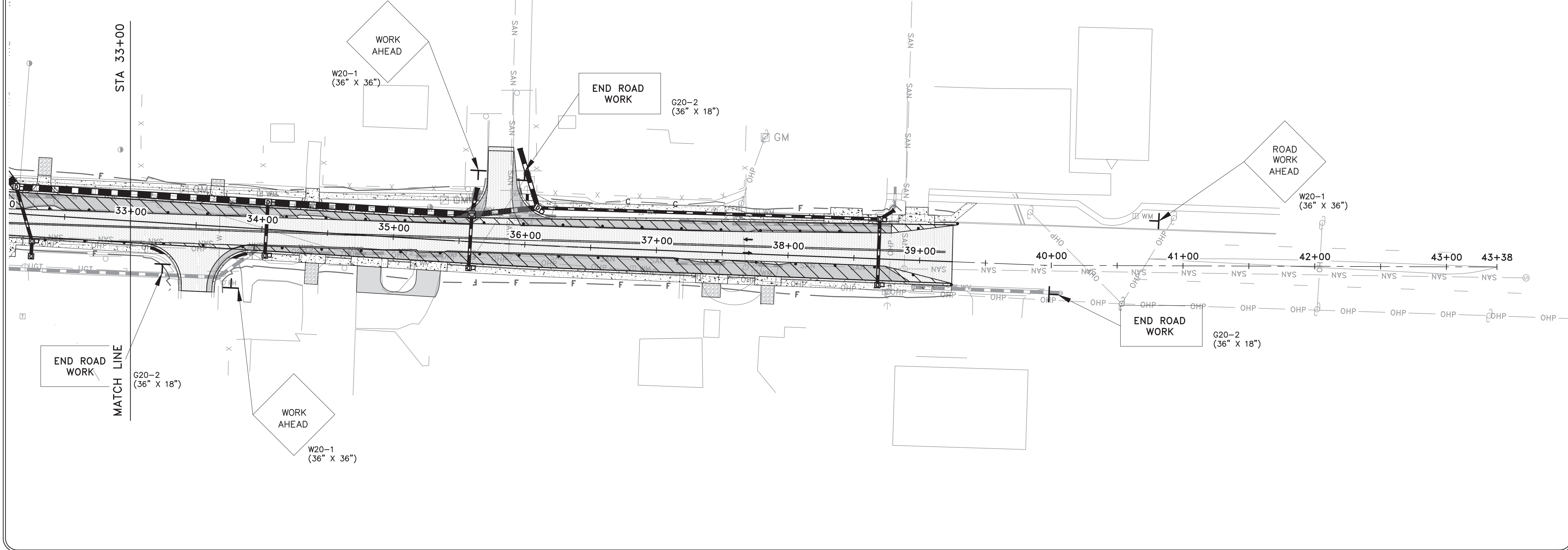


- STAGE 1:
1. SET UP SIGNAGE AND BARRELS.
 2. CONSTRUCT WIDENINGS, CURBS, AND DRAINAGE IN AREAS OUTSIDE OF ACTIVE LANES.
 3. CONSTRUCT DRAINAGE CROSS PIPES TO BE CONSTRUCTED UNDER TRAFFIC DURING LOW VOLUME TRAFFIC TIMES WHILE FLAGGING TRAFFIC.
 4. CONSTRUCT OVERLAID TIE AT BEGINNING OF PROJECT AND BUILD UNDER TRAFFIC DURING LOW VOLUME TRAFFIC TIMES WHILE FLAGGING TRAFFIC.
 5. ADJUST DRUM LOCATIONS AS NEEDED.
 6. MAINTAIN ACCESS TO ALL DRIVES THROUGH THE DURATION OF CONSTRUCTION.





- STAGE 1:**
1. SET UP SIGNAGE AND BARRELS.
 2. CONSTRUCT WIDENINGS, CURBS, AND DRAINAGE IN AREAS OUTSIDE OF ACTIVE LANES.
 3. CONSTRUCT DRAINAGE CROSS PIPES TO BE CONSTRUCTED UNDER TRAFFIC DURING LOW VOLUME TRAFFIC TIMES WHILE FLAGGING TRAFFIC.
 4. CONSTRUCT OVERLAID TIE AT BEGINNING OF PROJECT AND BUILD UNDER TRAFFIC DURING LOW VOLUME TRAFFIC TIMES WHILE FLAGGING TRAFFIC.
 5. ADJUST DRUM LOCATIONS AS NEEDED.
 6. MAINTAIN ACCESS TO ALL DRIVES THROUGH THE DURATION OF CONSTRUCTION.



| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLAN (2)
PHASE I

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201



DRAWN BY
 COF
DESIGNED
 COF
CHECKED
 BOL
DATE
 1-28-2020
SCALE
 1" = 40'
PROJECT NO.
 CLR 07-17-ST-357
SHEET NO.
C33

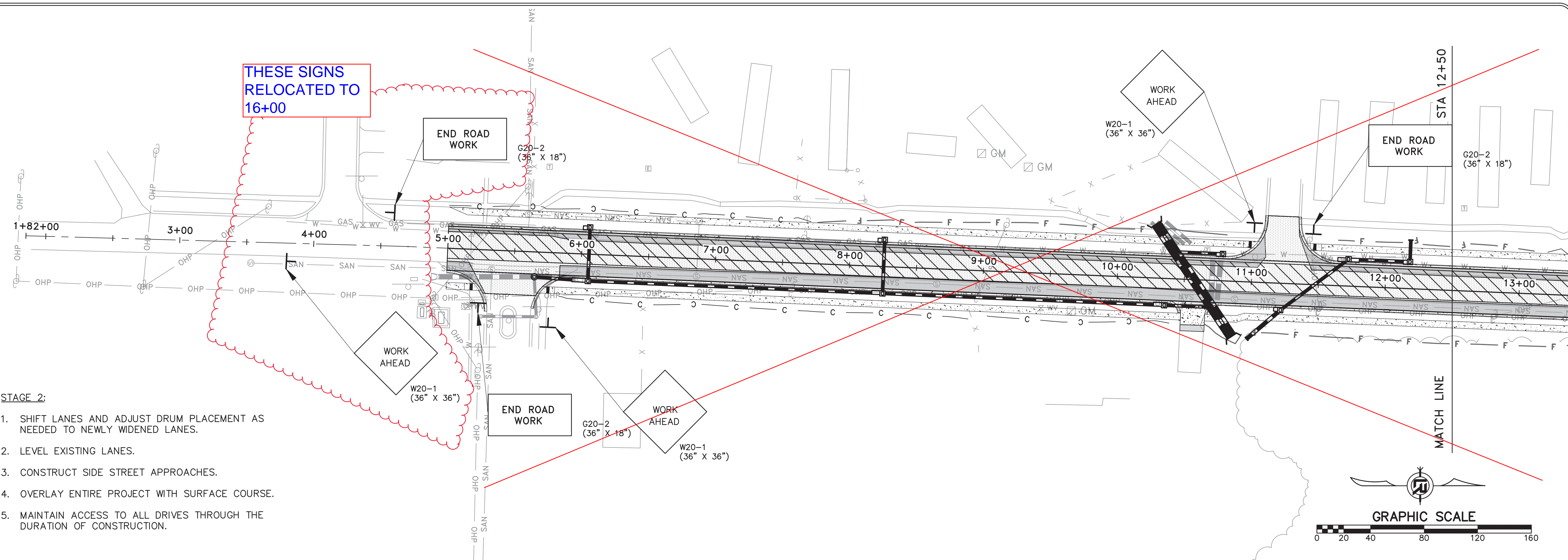
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
 CHICOT ROAD IMPROVEMENTS
 MAINTENANCE OF TRAFFIC PLAN (3)
 PHASE II

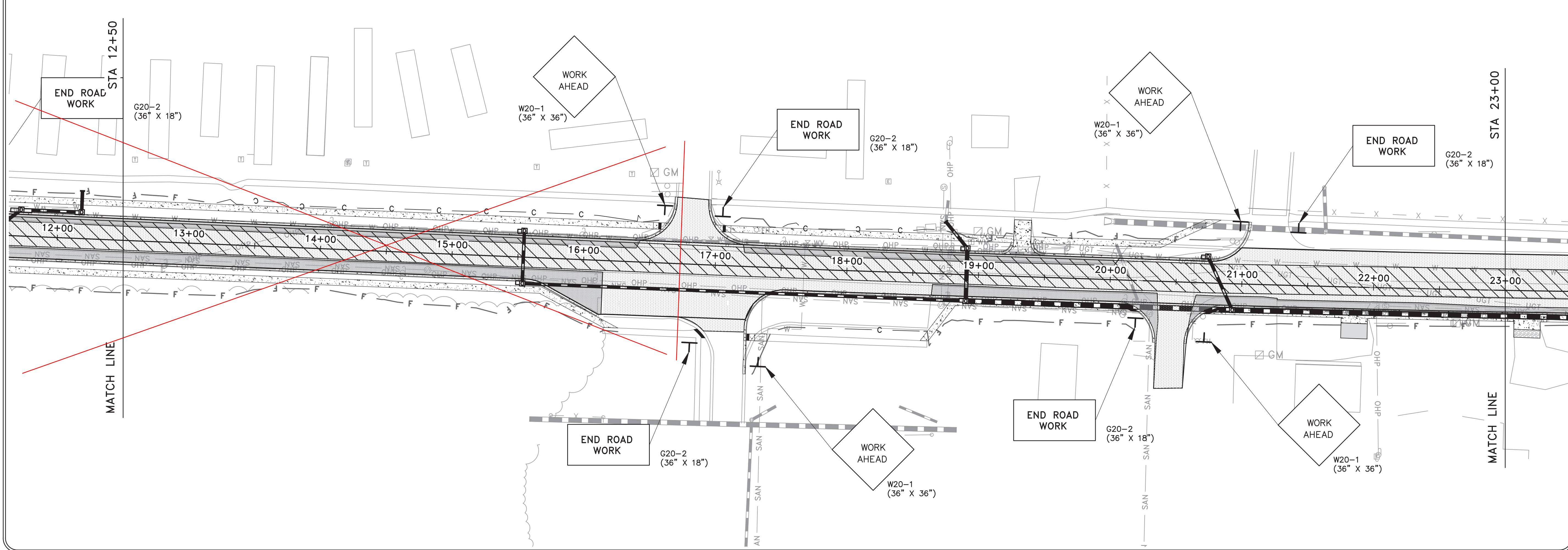
DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201

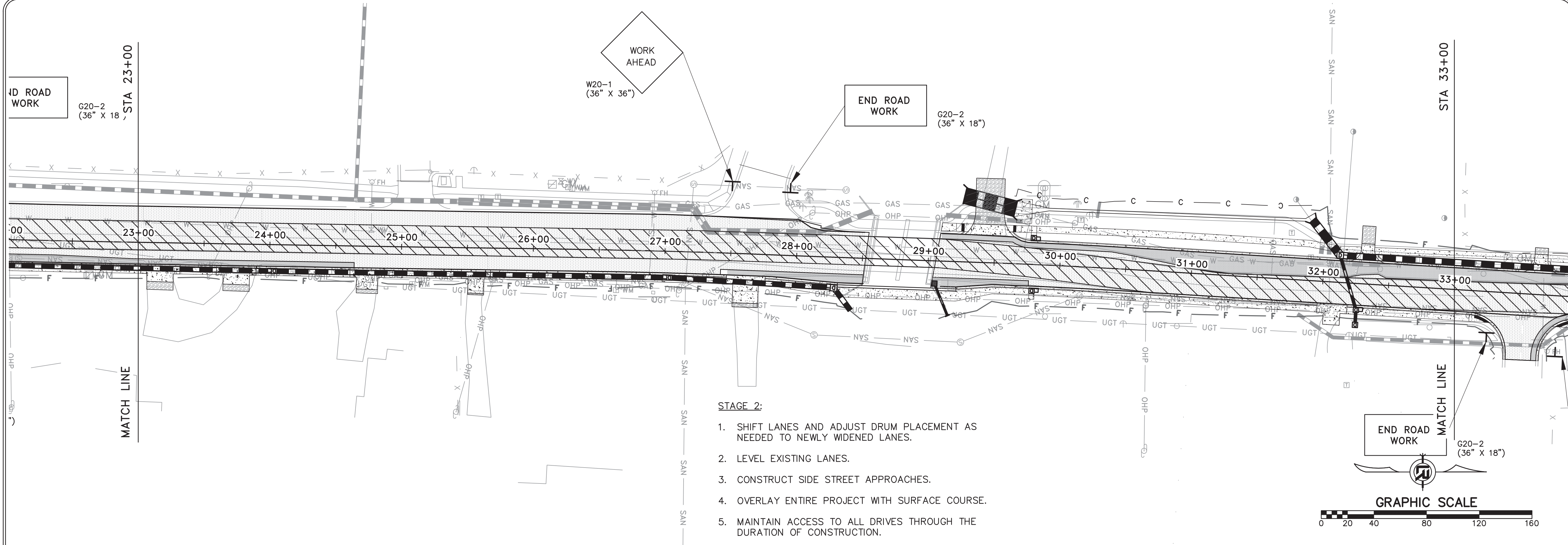


DRAWN BY
 COF
 DESIGNED
 COF
 CHECKED
 BOL
 DATE
 1-28-2020
 SCALE
 1" = 40'
 PROJECT NO.
 CLR 07-17-ST-357
 SHEET NO.
C34

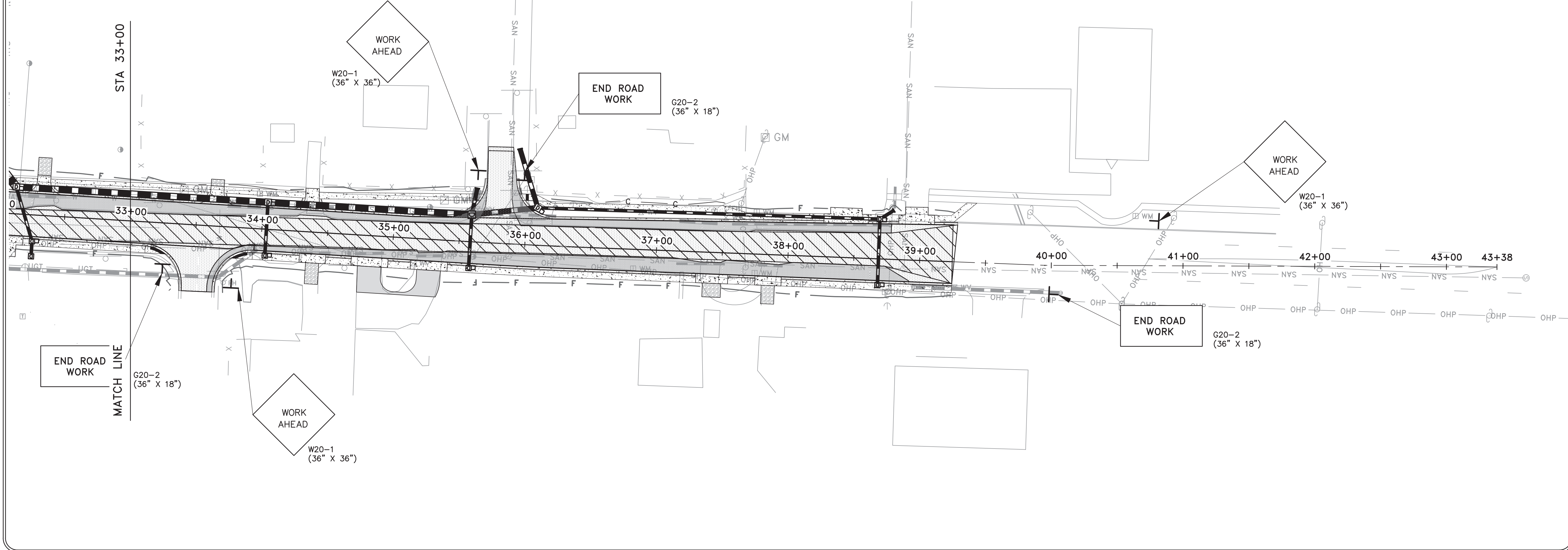


- STAGE 2:
1. SHIFT LANES AND ADJUST DRUM PLACEMENT AS NEEDED TO NEWLY WIDENED LANES.
 2. LEVEL EXISTING LANES.
 3. CONSTRUCT SIDE STREET APPROACHES.
 4. OVERLAY ENTIRE PROJECT WITH SURFACE COURSE.
 5. MAINTAIN ACCESS TO ALL DRIVES THROUGH THE DURATION OF CONSTRUCTION.





- STAGE 2:**
1. SHIFT LANES AND ADJUST DRUM PLACEMENT AS NEEDED TO NEWLY WIDENED LANES.
 2. LEVEL EXISTING LANES.
 3. CONSTRUCT SIDE STREET APPROACHES.
 4. OVERLAY ENTIRE PROJECT WITH SURFACE COURSE.
 5. MAINTAIN ACCESS TO ALL DRIVES THROUGH THE DURATION OF CONSTRUCTION.



| REVISIONS | DATE |
|-----------|------|
| | |
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLAN (4)
PHASE II

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201



DRAWN BY
 COF
DESIGNED
 COF
CHECKED
 BOL
DATE
 1-28-2020
SCALE
 1" = 40'
PROJECT NO.
 CLR 07-17-ST-357
SHEET NO.
C35

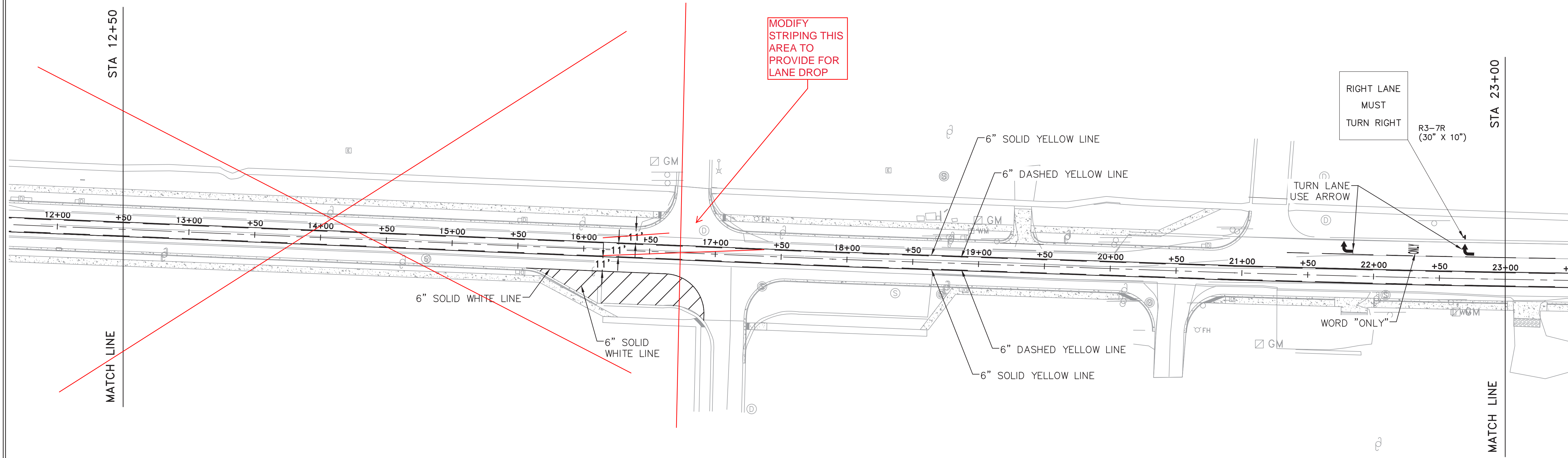
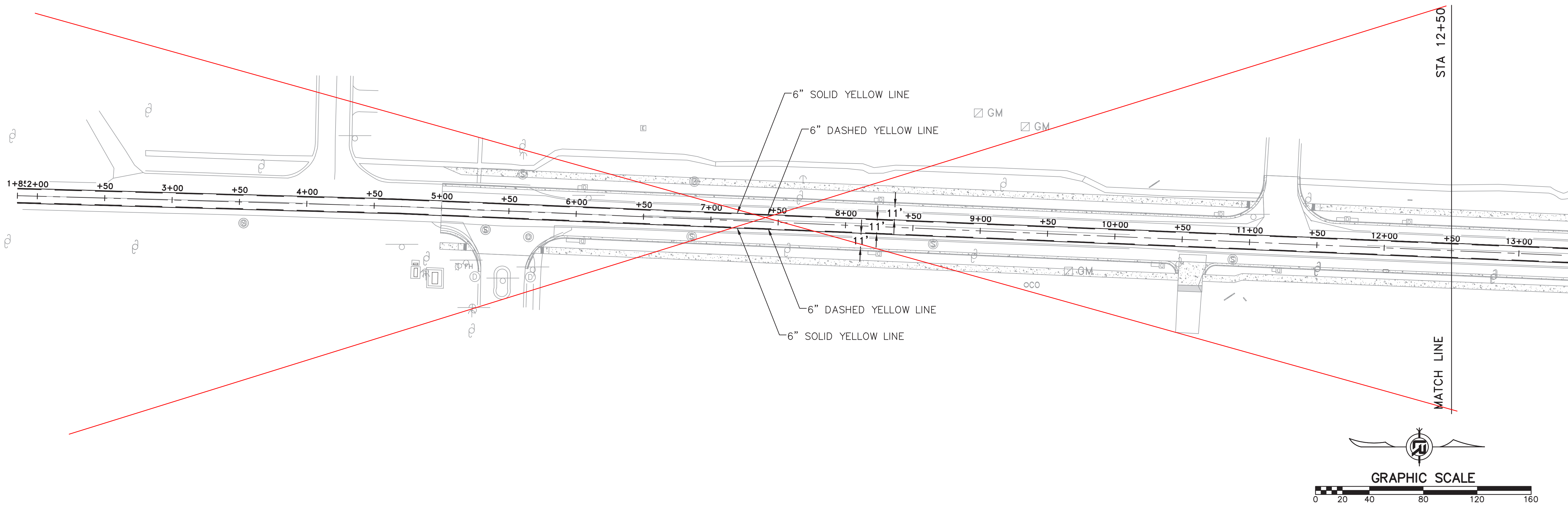
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
 CHICOT ROAD IMPROVEMENTS
 SIGNAGE AND MARKING PLAN (1)

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201



DRAWN BY
 KLL
 DESIGNED
 COF
 CHECKED
 BOL
 DATE
 1-28-2020
 SCALE
 1" = 40'
 PROJECT NO.
 CLR 07-17-ST-357
 SHEET NO.
 C36



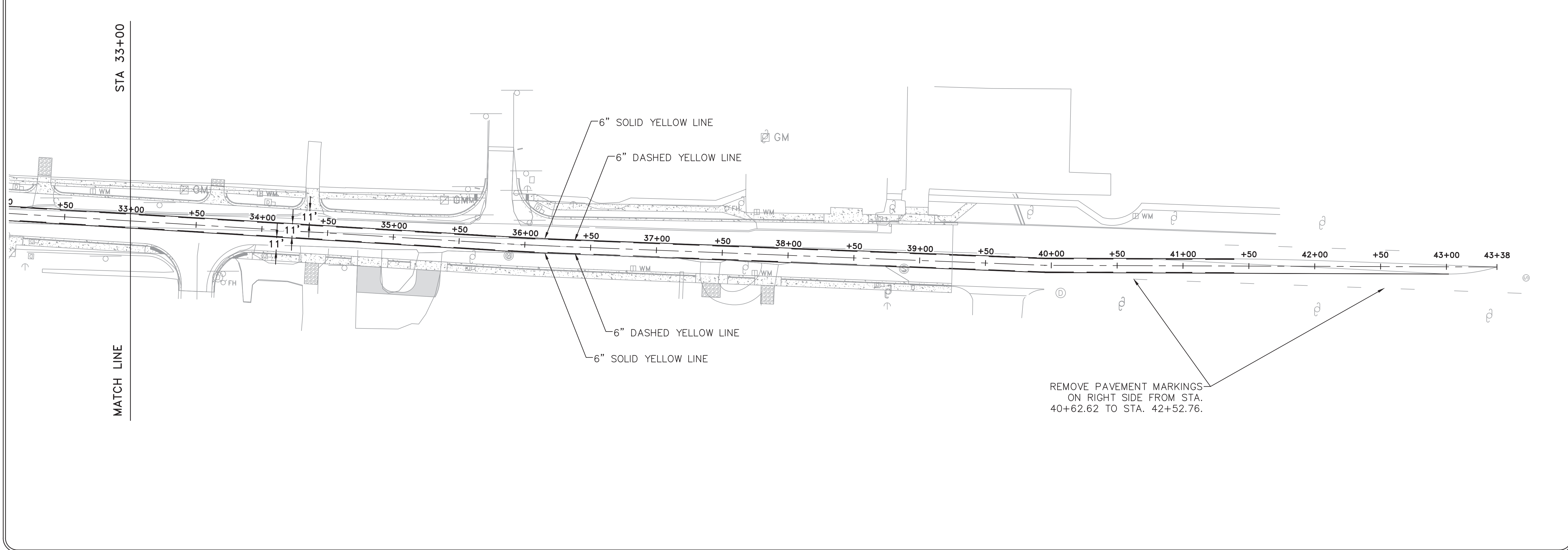
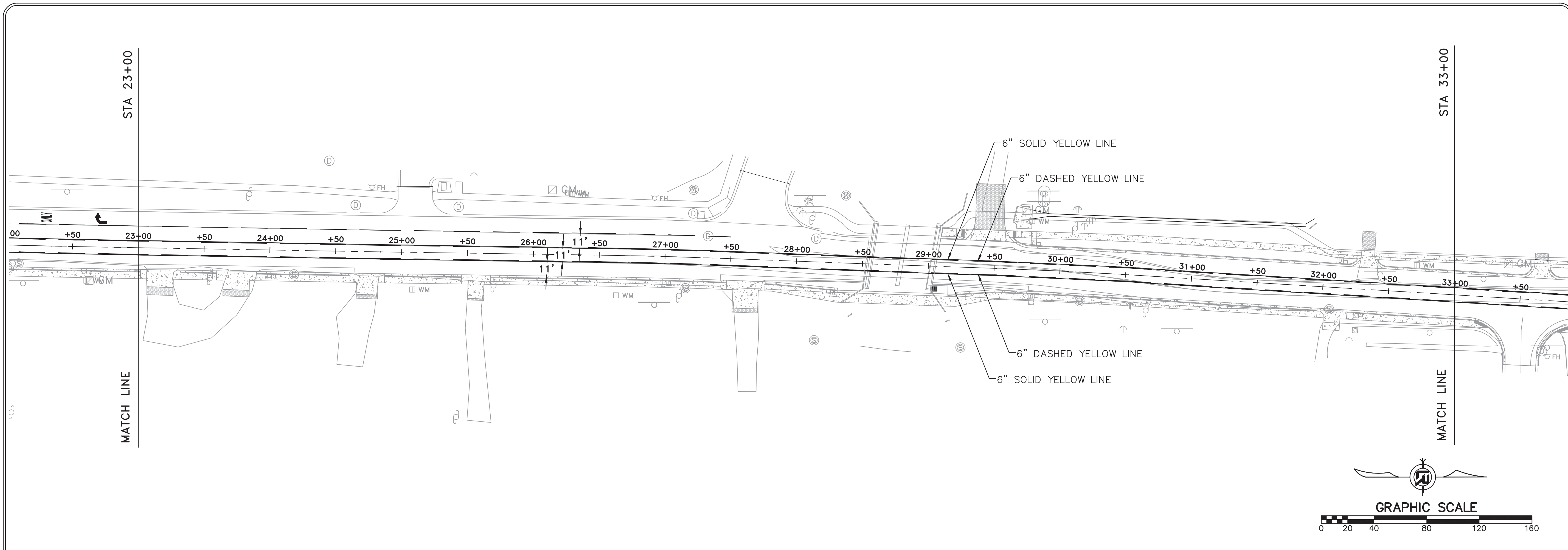
| REVISIONS | DATE |
|-----------|------|
| | |
| | |

CITY OF LITTLE ROCK, ARKANSAS
 CHICOT ROAD IMPROVEMENTS
 SIGNAGE AND MARKING PLAN (2)

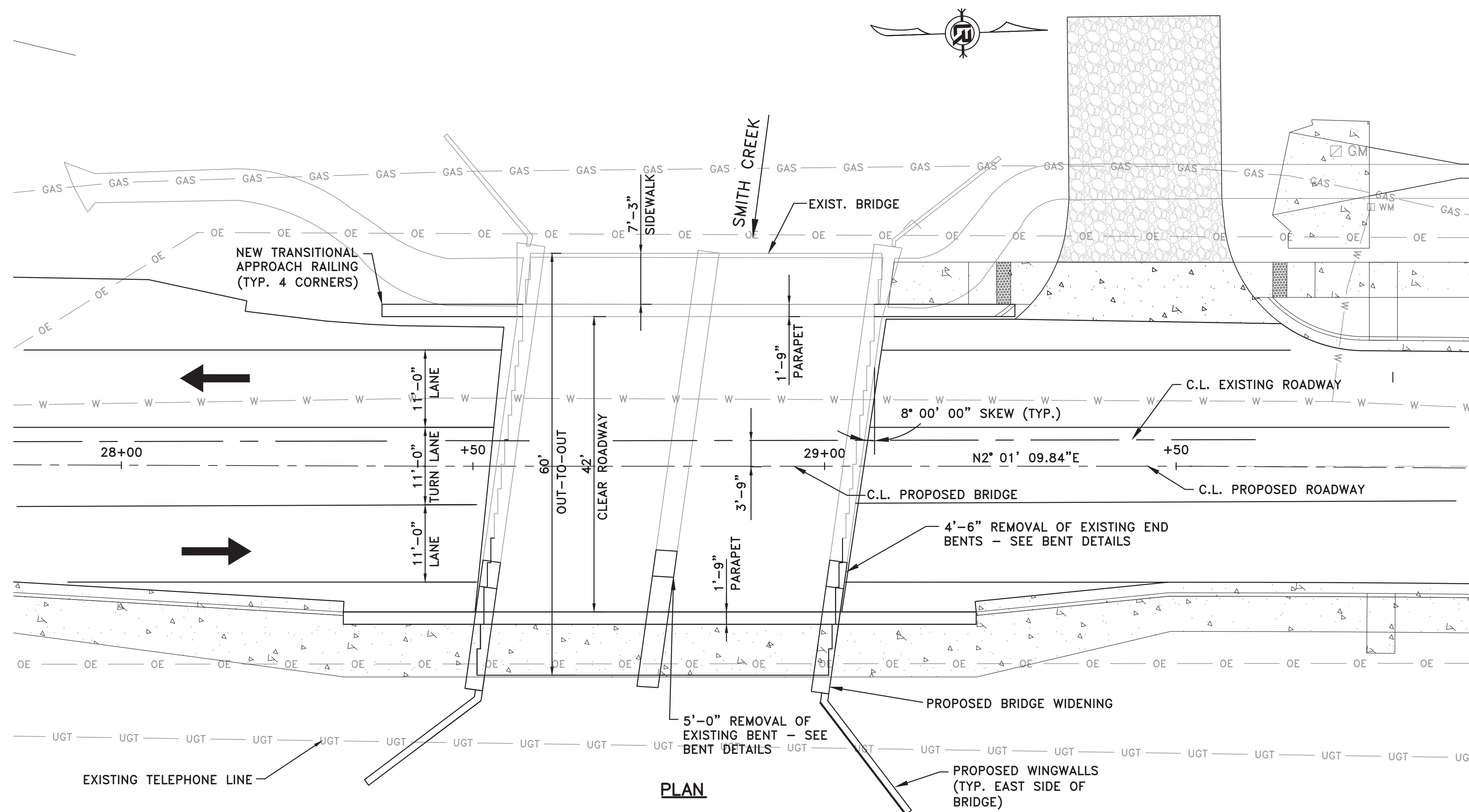
DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201



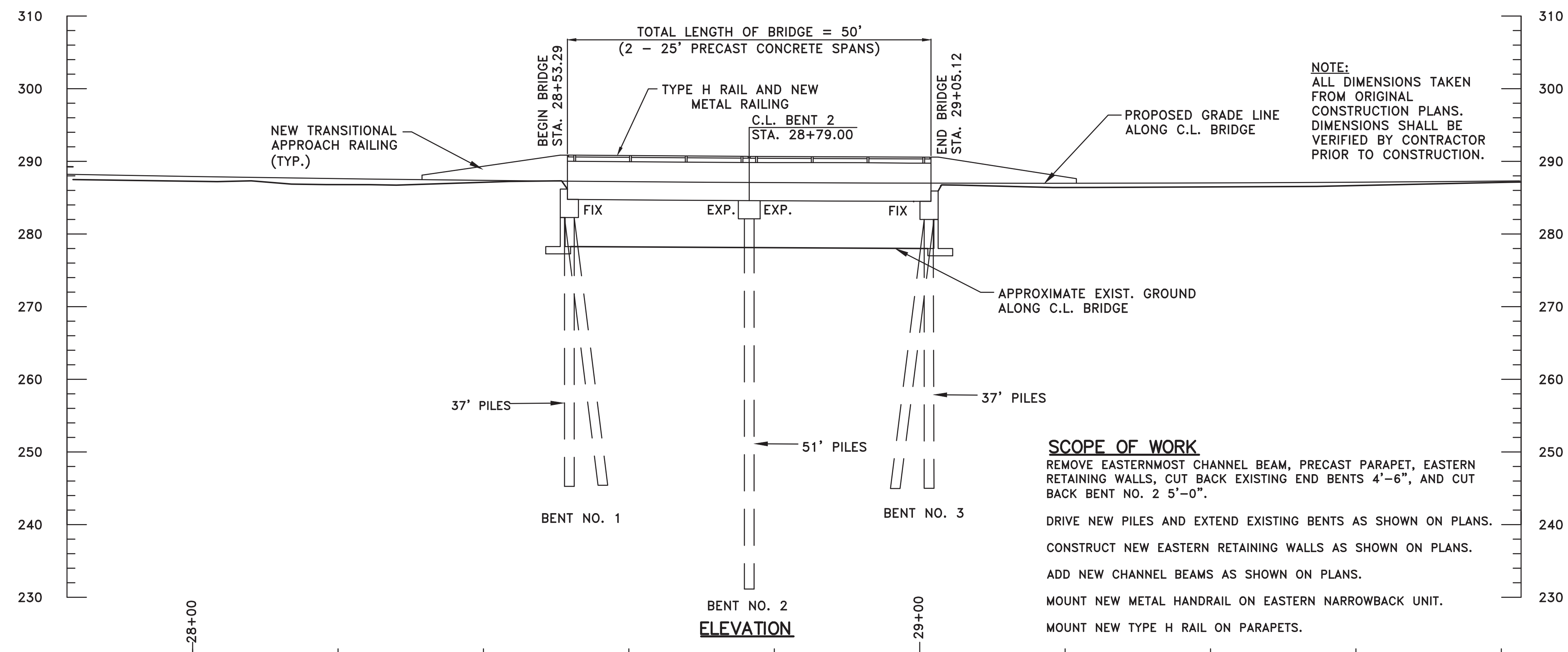
DRAWN BY
 KLL
 DESIGNED
 COF
 CHECKED
 BOL
 DATE
 1-28-2020
 SCALE
 1" = 40'
 PROJECT NO.
 CLR 07-17-ST-357
 SHEET NO.
 C37



REMOVE PAVEMENT MARKINGS
 ON RIGHT SIDE FROM STA.
 40+62.62 TO STA. 42+52.76.



PLAN



ELEVATION

SCOPE OF WORK

- REMOVE EASTERNMOST CHANNEL BEAM, PRECAST PARAPET, EASTERN RETAINING WALLS, CUT BACK EXISTING END BENTS 4'-6", AND CUT BACK BENT NO. 2 5'-0".
- DRIVE NEW PILES AND EXTEND EXISTING BENTS AS SHOWN ON PLANS.
- CONSTRUCT NEW EASTERN RETAINING WALLS AS SHOWN ON PLANS.
- ADD NEW CHANNEL BEAMS AS SHOWN ON PLANS.
- MOUNT NEW METAL HANDRAIL ON EASTERN NARROWBACK UNIT.
- MOUNT NEW TYPE H RAIL ON PARAPETS.

NOTE:
ALL DIMENSIONS TAKEN FROM ORIGINAL CONSTRUCTION PLANS. DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS:
CITY OF LITTLE ROCK CONTRACT CONDITIONS AND SPECIFICATIONS (NOVEMBER 2015)

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2014 EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS NOTED OTHERWISE IN THE PLANS, SECTION AND SUBSECTION NUMBERS REFER TO THE CONSTRUCTION SPECIFICATIONS.

DESIGN SPECIFICATIONS: (FOR NEW WORK)
STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (17TH EDITION - 2002)
LIVE LOADING: HS20

MATERIALS AND STRENGTHS:
CLASS S(AE) CONCRETE $f'_c = 4,000$ PSI
CLASS S CONCRETE $f'_c = 3,500$ PSI
REINFORCING STEEL (AASHTO M31 OR M322, TYPE A, GR. 60) $f_y = 60,000$ PSI
STRUCTURAL STEEL (ASTM A709, GR. 36) $F_y = 36,000$ PSI

SHOP DRAWINGS & REQUEST FOR SUBSTITUTIONS:
ALL SHOP DRAWINGS AND REQUEST FOR SUBSTITUTIONS SHALL BE SENT TO THE SEALING ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

CONCRETE:
CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED $\frac{3}{4}$ " UNLESS OTHERWISE NOTED. ALL SUPERSTRUCTURE CONCRETE SHALL BE CLASS S(AE) WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH $f'_c = 4,000$ PSI. ALL SUBSTRUCTURE CONCRETE SHALL BE CLASS S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF $f'_c = 3,500$ PSI.

THE CONCRETE BETWEEN CURBS SHALL BE GIVEN A GROOVED FINISH IN ACCORDANCE WITH SUBSECTION 802.19 FOR CLASS 7 GROOVED BRIDGE ROADWAY SURFACE FINISH. SIDEWALKS SHALL BE GIVEN A CLASS 6 BROOMED FINISH. THE EXTERIOR VERTICAL FACES OF THE PRECAST UNITS SHALL BE GIVEN A CLASS 3 TEXTURED COATING FINISH PER SECTION 802.19(b)(3). IN ADDITION, ALL EXPOSED SURFACES OF THE EXISTING CONCRETE END BENTS, INTERMEDIATE BENT, WINGWALLS, AND TOP AND SIDES OF CONCRETE PARAPETS SHALL BE GIVEN A CLASS 3 TEXTURED COATING FINISH PER SUBSECTION 802.19(b)(3). TEXTURE COATING THE EXISTING CONCRETE SURFACES SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE SUBSIDIARY TO OTHER ITEMS OF WORK.

CONCRETE PILING

PILING IN BENTS 1 THROUGH 3 SHALL BE 16" SQUARE PRECAST CONCRETE AND SHALL BE DRIVEN WITH AN APPROVED AIR, STEAM OR DIESEL HAMMER TO A MINIMUM SAFE BEARING CAPACITY OF 95 TONS PER PILE IN BENTS 1 AND 3, AND 140 TONS PER PILE AT BENT 2.

PILING IN END BENTS SHALL BE DRIVEN AFTER EMBANKMENT TO BOTTOM OF CAP IS IN PLACE. DRIVE ALL PILES TO A MINIMUM PENETRATION OF 20' BELOW NATURAL GROUND. LENGTHS OF PILING SHOWN ARE ASSUMED FOR ESTIMATING QUANTITIES ONLY. ACTUAL LENGTHS ARE TO BE DETERMINED IN THE FIELD. NO ADDITIONAL PAYMENT WILL BE MADE FOR CUT-OFF OR BUILD-UP. TEST PILES ARE NOT REQUIRED, BUT MAY BE DRIVEN FOR THE CONTRACTOR'S INFORMATION IN ACCORDANCE WITH SUBSECTION 805.08(G).

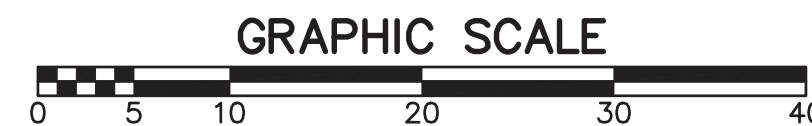
REINFORCING STEEL:

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, TYPE A GR. 60. MILL TEST REPORTS SHALL BE SUBMITTED FOR REINFORCING STEEL. THE REINFORCING STEEL IS TO BE ACCURATELY LOCATED IN THE FORMS AND FIRMLY HELD IN PLACE BY STEEL WIRE SUPPORTS, SUFFICIENT IN NUMBER AND SIZE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION. THE WIRE SUPPORTS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM "REINFORCING STEEL (GRADE 60)."

EXISTING UTILITIES:


THERE IS A POSSIBILITY THAT UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THE PLANS, AND THE LOCATION OF THE UTILITIES MAY VARY FROM THE APPROXIMATE LOCATION SHOWN ON THE PLANS. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITY ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY.

ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-482-8998. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE SYSTEM.



| REVISIONS | DATE |
|-----------|------|
| | |

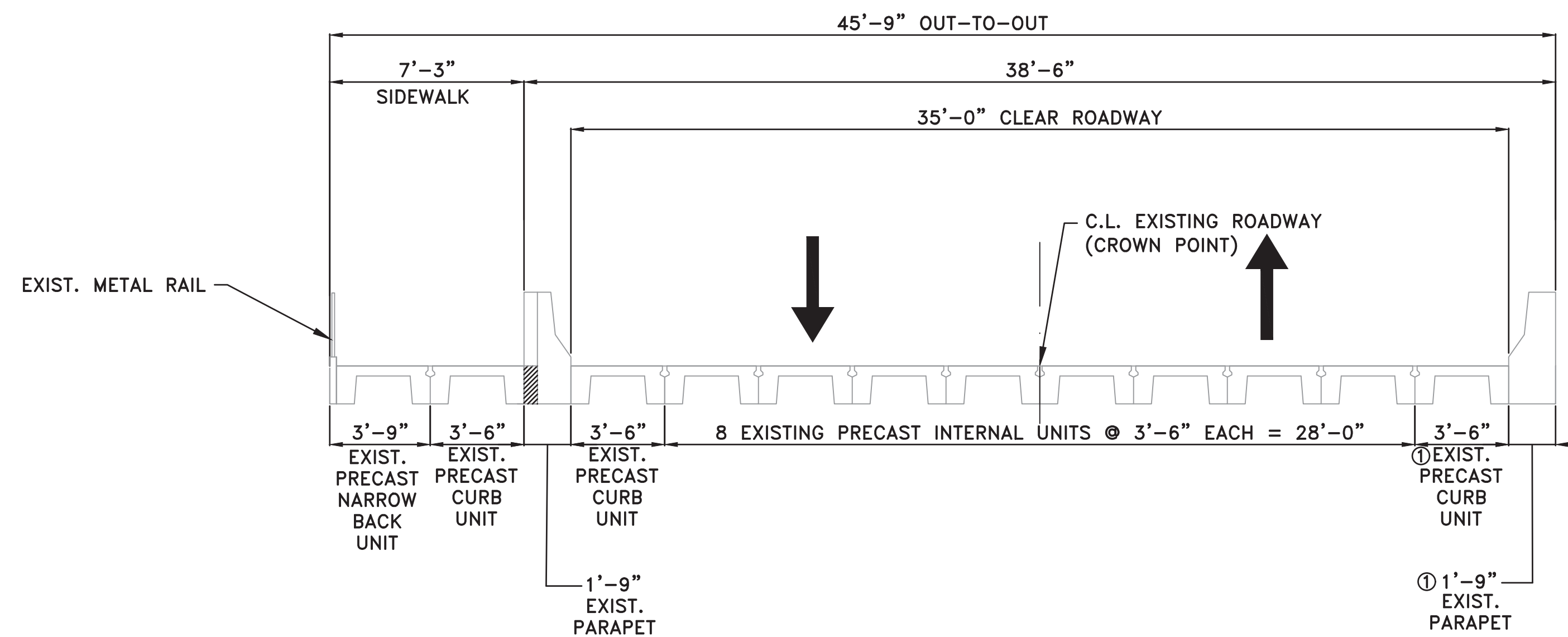
CITY OF LITTLE ROCK, ARKANSAS
 CHICOT ROAD RECONSTRUCTION
 LAYOUT OF BRIDGE


 DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS
 LICENSED PROFESSIONAL ENGINEER
 No. 18018
 JUSTIN P. CARNEY

| |
|---------------------------------------|
| DRAWN BY KDH |
| DESIGNED JPC |
| CHECKED SFH |
| DATE 06/2019 |
| SCALE 1" = 10' |
| PROJECT NO. CLR#7-17-ST-357 |
| SHEET NO. S1 |

| REVISIONS | DATE |
|-----------|------|
| | |
| | |



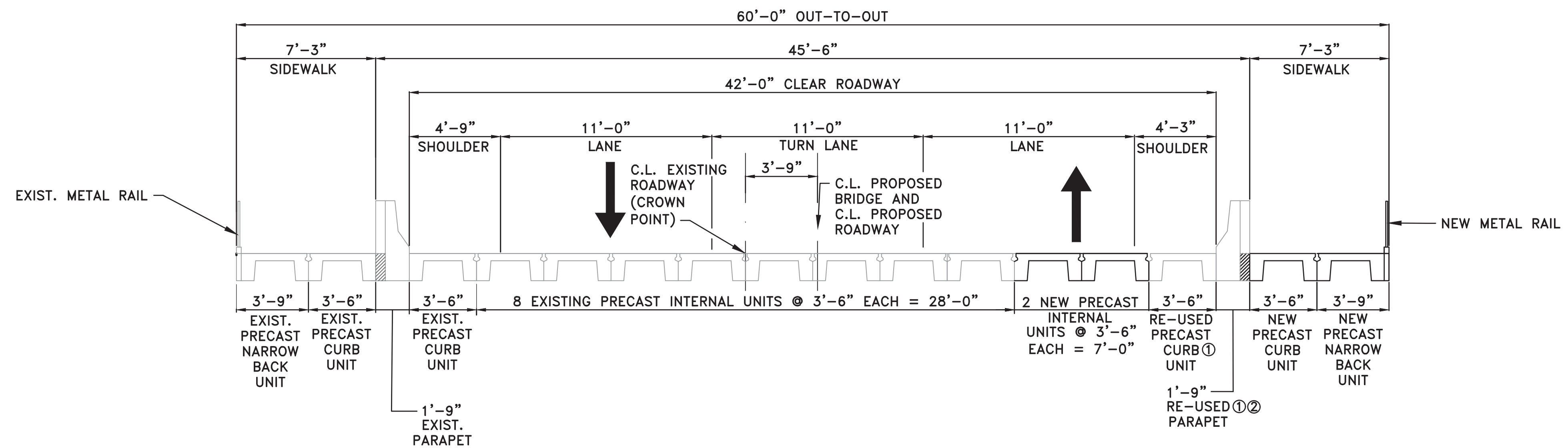
NOTES:

① RE-USE EXISTING PRECAST CURB UNIT AND PRECAST PARAPET UNIT IN WIDENED BRIDGE.

② FILL 6" VOID BETWEEN RE-USED PARAPET AND NEW CURB UNIT WITH CLASS-S CONCRETE SIMILAR TO EXISTING WEST SIDE OF BRIDGE. ALL CONCRETE, REINFORCEMENT, FABRICATION, AND ERECTION TO COMPLETE THE WORK SHALL BE CONSIDERED SUBSIDIARY AND PAID FOR UNDER THE UNIT PRICE BID FOR "25' PRECAST CONCRETE CURB UNIT".

ALL DIMENSIONS TAKEN FROM ORIGINAL CONSTRUCTION PLANS. DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

TYPICAL SECTION - EXISTING PRECAST BRIDGE DECK
(LOOKING FORWARD)



TYPICAL SECTION - WIDENED PRECAST BRIDGE DECK
(LOOKING FORWARD)

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD RECONSTRUCTION
TYPICAL SECTION

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18018
JUSTIN P. CARNEY
2/16/2020

DRAWN BY
KDH
DESIGNED
JPC
CHECKED
SFH
DATE
06/2019
SCALE
1/4" = 1'-0"
PROJECT NO.
CLR#7-17-ST-357
SHEET NO.
S2

BORING LOG NO. B-1

Page 1 of 2

| | | | | | | | | | | | |
|---|-------------|---|-------------|----------------------------|---------------|------------------------------|------------|-------------------|-----------------------|------------------------------|---------------|
| PROJECT: Chicot Road Expansion | | CLIENT: Michael Baker International, LLC Little Rock, Arkansas | | | | | | | | | |
| SITE: Chicot Road Little Rock, Arkansas | | | | | | | | | | | |
| GRAPHIC LOG LOCATION See Exhibit A-2 Latitude: 34.6506° Longitude: -92.3633° | DEPTH (FT.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | FIELD TEST RESULTS | STRENGTH TEST | | | WATER CONTENT (%) | DRY UNIT WEIGHT (pcf) | ATTERBERG LIMITS LL-PL-PI | PERCENT FINES |
| | | | | | TEST TYPE | COMPRESSIVE STRENGTH (psf) | STRAIN (%) | | | | |
| 5.0 | | | | | | | | | | | |
| 5.0 | | | | | | | | | | | |
| 13.5 | | | | | | | | | | | |
| 13.5 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic | | | | | | | | | | | |
| Advancement Method: 0 to 10 feet: Hollow-stem auger 10 to 50 feet: Wash rotary with 2-7/8" drag bit | | See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). | | Notes: | | | | | | | |
| Abandonment Method: Boring backfilled with Auger Cuttings and/or Bentonite | | See Appendix C for explanation of symbols and abbreviations. | | | | | | | | | |
| WATER LEVEL OBSERVATIONS Water level not determined | | Terracon 25809 I 30 Bryant, AR | | Boring Started: 02-18-2019 | | Boring Completed: 02-18-2019 | | | | | |
| | | | | Drill Rig: | | Driller: JB | | | | | |
| | | | | Project No.: 35185100 | | Exhibit: A-1 | | | | | |

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL_35185100-CHICOT ROAD EXPAN.GPJ MODELAYER.GPJ 3/17/19

BORING LOG NO. B-1

Page 2 of 2



| | | | | | | | | | | | |
|---|-------------|---|-------------|----------------------------|---------------|------------------------------|------------|-------------------|-----------------------|------------------------------|---------------|
| PROJECT: Chicot Road Expansion | | CLIENT: Michael Baker International, LLC Little Rock, Arkansas | | | | | | | | | |
| SITE: Chicot Road Little Rock, Arkansas | | | | | | | | | | | |
| GRAPHIC LOG LOCATION See Exhibit A-2 Latitude: 34.6506° Longitude: -92.3633° | DEPTH (FT.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | FIELD TEST RESULTS | STRENGTH TEST | | | WATER CONTENT (%) | DRY UNIT WEIGHT (pcf) | ATTERBERG LIMITS LL-PL-PI | PERCENT FINES |
| | | | | | TEST TYPE | COMPRESSIVE STRENGTH (psf) | STRAIN (%) | | | | |
| 30 | | | | | | | | | | | |
| 33.5 | | | | | | | | | | | |
| 35 | | | | | | | | | | | |
| 40 | | | | | | | | | | | |
| 45 | | | | | | | | | | | |
| 50 | | | | | | | | | | | |
| Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic | | | | | | | | | | | |
| Advancement Method: 0 to 10 feet: Hollow-stem auger 10 to 50 feet: Wash rotary with 2-7/8" drag bit | | See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). | | Notes: | | | | | | | |
| Abandonment Method: Boring backfilled with Auger Cuttings and/or Bentonite | | See Appendix C for explanation of symbols and abbreviations. | | | | | | | | | |
| WATER LEVEL OBSERVATIONS Water level not determined | | Terracon 25809 I 30 Bryant, AR | | Boring Started: 02-18-2019 | | Boring Completed: 02-18-2019 | | | | | |
| | | | | Drill Rig: | | Driller: JB | | | | | |
| | | | | Project No.: 35185100 | | Exhibit: A-1 | | | | | |

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL_35185100-CHICOT ROAD EXPAN.GPJ MODELAYER.GPJ 3/17/19

| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD RECONSTRUCTION
BORING LOG (1)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201





STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18018
JUSTIN P. CARNEY
2/3/2020

DRAWN BY
KDH
DESIGNED
JPC
CHECKED
SFH
DATE
06/2019
SCALE
NO SCALE
PROJECT NO.
CLR#7-17-ST-357
SHEET NO.
S3


| REVISIONS | DATE |
|-----------|------|
| | |
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD RECONSTRUCTION
BORING LOG (2)



 DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201


 JUSTIN P. CARNEY
 No. 18018
 2/3/2020

DRAWN BY
 KDH
 DESIGNED
 JPC
 CHECKED
 SFH
 DATE
 06/2019
 SCALE
 NO SCALE
 PROJECT NO.
 CLR#7-17-ST-357
 SHEET NO.
S4

| BORING LOG NO. B-2 Page 1 of 2 | | | | | | | | | | | | |
|--|---|--|---|--------------------------|-------------|---|---------------|----------------------------|------------------------------|-----------------------|------------------------------|---------------|
| PROJECT: Chicot Road Expansion | | | | | | CLIENT: Michael Baker International, LLC Little Rock, Arkansas | | | | | | |
| SITE: Chicot Road Little Rock, Arkansas | | | | | | | | | | | | |
| GRAPHIC LOG | LOCATION See Exhibit A-2 | | DEPTH (FT.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | FIELD TEST RESULTS | STRENGTH TEST | | WATER CONTENT (%) | DRY UNIT WEIGHT (pcf) | ATTERBERG LIMITS LL-PL-Pi | PERCENT FINES |
| | Latitude: 34.6504° Longitude: -92.3633° | | | | | | TEST TYPE | COMPRESSIVE STRENGTH (psf) | | | | |
| 0.7 | PORTLAND CEMENT CONCRETE - 8 inches | | | | | | | | | | | |
| | SILTY SAND (SM), trace gravel, fine grained, brown and gray, medium dense to very loose | | | | | 6-7-8 N=15 | | | 9 | | | |
| | | | | | | 5-4-3 N=7 | | | 12 | | | 34 |
| | | | | | | 2-1-2 N=3 | | | 15 | | | |
| | | | | | | 1-1-1 N=2 | | | 16 | | | |
| | | | | | | 2-2-1 N=3 | | | 21 | | | 13 |
| | | | | | | 2-2-1 N=3 | | | 21 | | | 13 |
| 13.5 | FAT CLAY (CH), dark gray, stiff to hard | | | | | 3-4-6 N=10 | | | 41 | | | |
| | | | | | | 6-8-12 N=20 | | | 37 | 100-27-73 | 99 | |
| | | | | | | 7-10-12 N=22 | | | 37 | | | |
| Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic | | | | | | | | | | | | |
| Advancement Method: 0 to 50 feet. Hollow-stem auger | | | See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). | | | Notes: | | | | | | |
| Abandonment Method: Boring backfilled with Auger Cuttings and/or Bentonite | | | See Appendix C for explanation of symbols and abbreviations. | | | | | | | | | |
| WATER LEVEL OBSERVATIONS | | |  | | | Boring Started: 02-15-2019 | | | Boring Completed: 02-15-2019 | | | |
| ▽ 8.5 feet while drilling | | | | | | Drill Rig: | | | Driller: JB | | | |
| | | | | | | Project No.: 35185100 | | | Exhibit: A-2 | | | |

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 35185100 CHICOT ROAD EXPAN.GPJ MODELAYER.GPJ 3/17/219

| BORING LOG NO. B-2 Page 2 of 2 | | | | | | | | | | | | |
|--|---|--|---|--------------------------|-------------|---|---------------|----------------------------|------------------------------|-----------------------|------------------------------|---------------|
| PROJECT: Chicot Road Expansion | | | | | | CLIENT: Michael Baker International, LLC Little Rock, Arkansas | | | | | | |
| SITE: Chicot Road Little Rock, Arkansas | | | | | | | | | | | | |
| GRAPHIC LOG | LOCATION See Exhibit A-2 | | DEPTH (FT.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | FIELD TEST RESULTS | STRENGTH TEST | | WATER CONTENT (%) | DRY UNIT WEIGHT (pcf) | ATTERBERG LIMITS LL-PL-Pi | PERCENT FINES |
| | Latitude: 34.6504° Longitude: -92.3633° | | | | | | TEST TYPE | COMPRESSIVE STRENGTH (psf) | | | | |
| 50.0 | FAT CLAY (CH), dark gray, stiff to hard (continued) | | | | | 8-10-13 N=23 | | | 34 | | | |
| | | | | | | 6-8-12 N=20 | | | 36 | | | |
| | | | | | | 8-13-21 N=34 | | | 30 | 72-19-53 | 87 | |
| | | | | | | 13-13-19 N=32 | | | 33 | | | |
| | | | | | | 50/2" | | | 22 | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic | | | | | | | | | | | | |
| Advancement Method: 0 to 50 feet. Hollow-stem auger | | | See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). | | | Notes: | | | | | | |
| Abandonment Method: Boring backfilled with Auger Cuttings and/or Bentonite | | | See Appendix C for explanation of symbols and abbreviations. | | | | | | | | | |
| WATER LEVEL OBSERVATIONS | | |  | | | Boring Started: 02-15-2019 | | | Boring Completed: 02-15-2019 | | | |
| ▽ 8.5 feet while drilling | | | | | | Drill Rig: | | | Driller: JB | | | |
| | | | | | | Project No.: 35185100 | | | Exhibit: A-2 | | | |

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 35185100 CHICOT ROAD EXPAN.GPJ MODELAYER.GPJ 3/17/219

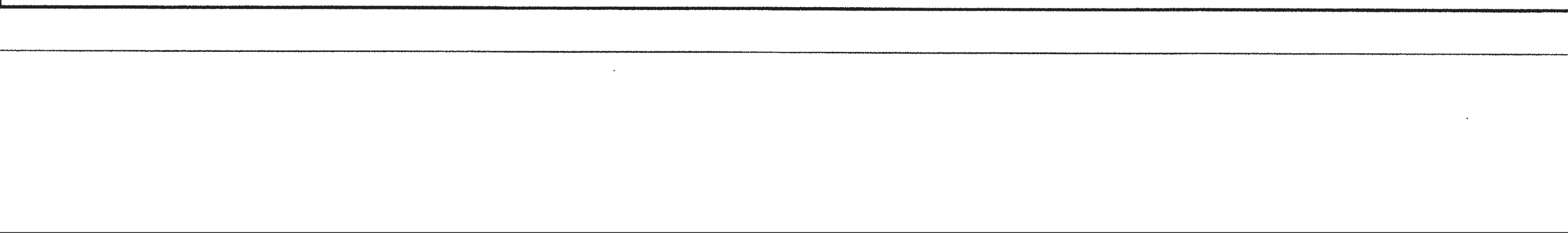
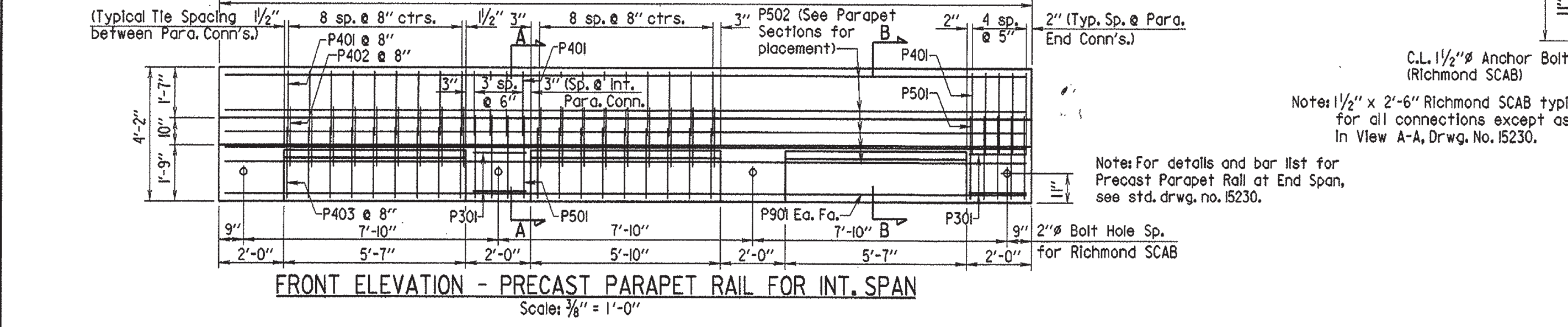
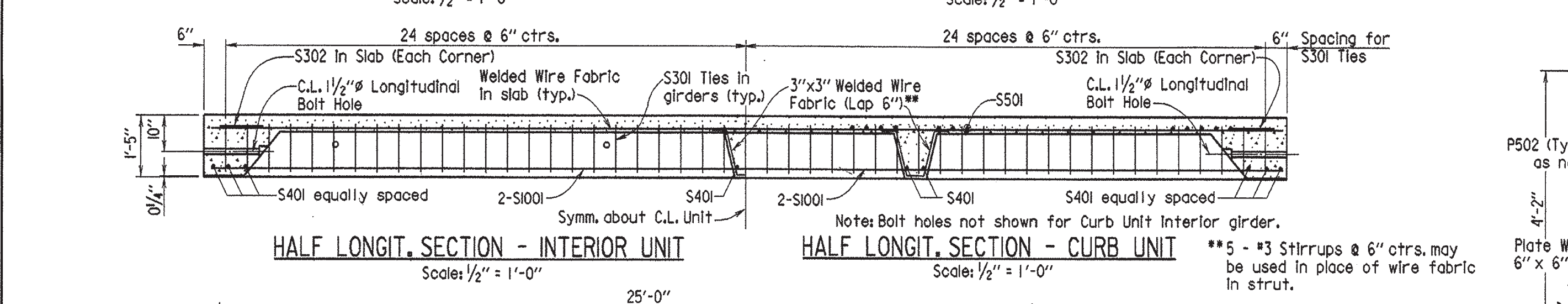
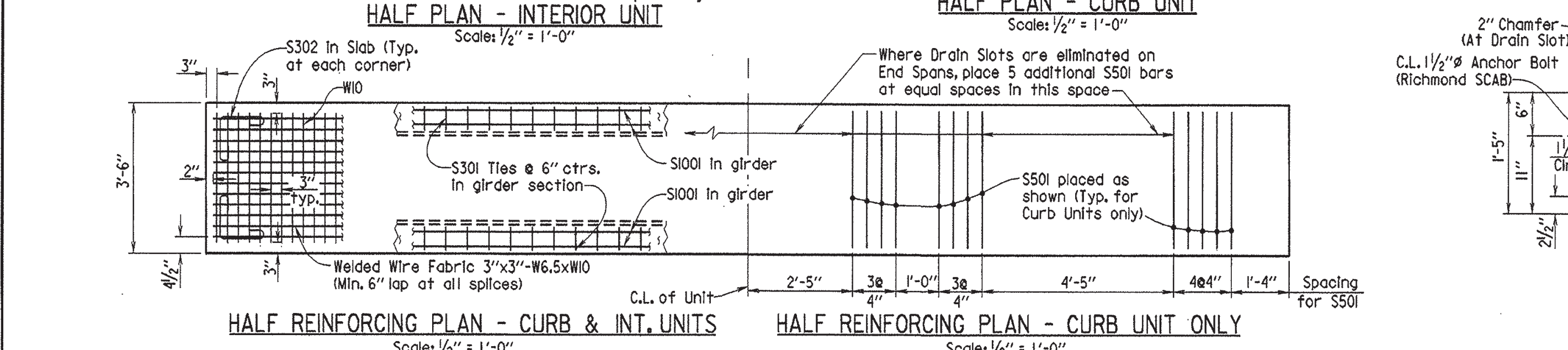
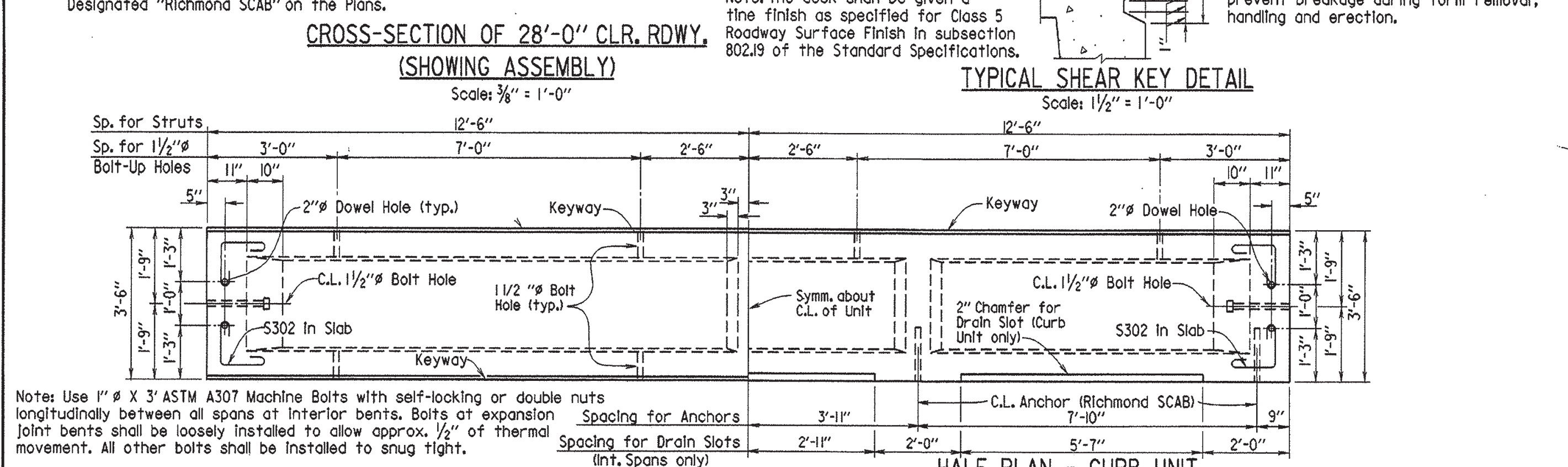
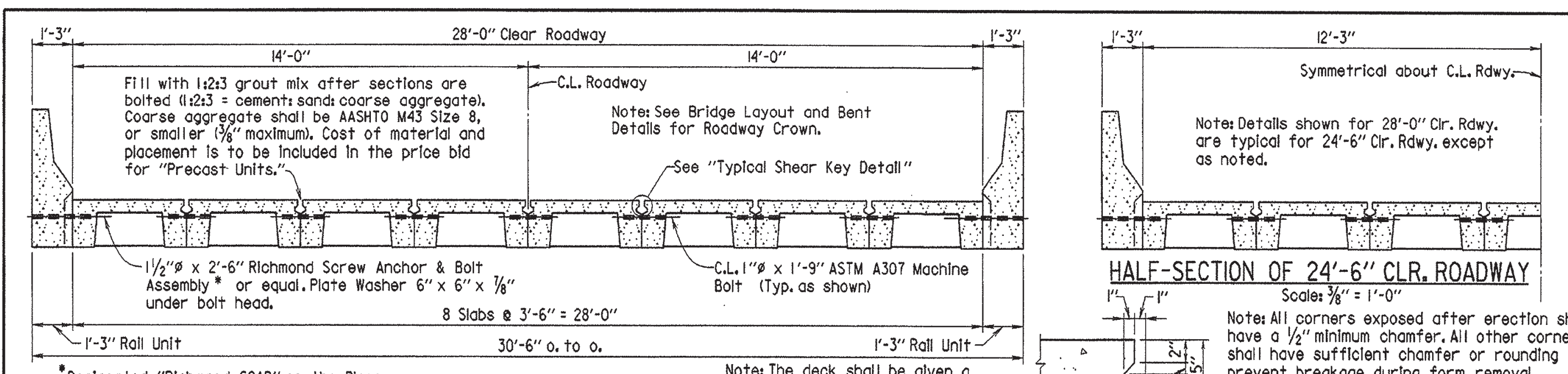
| REVISIONS | DATE |
|-----------|------|
| | |
| | |
| | |

CITY OF LITTLE ROCK, ARKANSAS
 CHICOT ROAD RECONSTRUCTION
 CHANNEL BEAMS

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS
 LICENSED PROFESSIONAL ENGINEER
 No. 18018
 JUSTIN P. CARNEY

DRAWN BY
 KDH
 DESIGNED
 JPC
 CHECKED
 SFH
 DATE
 06/2019
 SCALE
 NO SCALE
 PROJECT NO.
 CLR#7-17-ST-357
 SHEET NO.
S5



BAR LIST FOR PRECAST BRIDGE COMPONENTS
PRECAST SLAB UNIT

Note: Bars designated with an "E" are to be epoxy coated.

| MARK | NUMBER REQUIRED | | LENGTH | P.D. |
|-------|-----------------|-----------|-----------|--------|
| | CURB UNIT | INT. UNIT | | |
| S301 | 98 | 98 | 3'-3 1/2" | 1 1/2" |
| S302 | 4 | 4 | 2'-9" | 1 1/2" |
| S401 | 10 | 8 | 3'-2" | Str. |
| S501 | 26 (A) | - | 4'-6" | 2 1/2" |
| S601E | (B) | (B) | 1'-11" | Str. |
| S1001 | 4 | 4 | 24'-8" | Str. |

(A) Plus 5 additional for each Drain Slot eliminated
 (B) 2 Per Fixed end of each Unit

PRECAST PARAPET RAIL UNIT

| MARK | NUMBER REQUIRED | | LENGTH | P.D. |
|------|-----------------|-----------|-----------|--------|
| | END SPAN | INT. SPAN | | |
| P301 | 8 | 8 | 5'-4" | 1 1/2" |
| P401 | 45 | 45 | 4'-8" | 2" |
| P402 | 27 | 27 | 3'-1 1/2" | 2" |
| P403 | 27 | 27 | 5'-8" | 2" |
| P501 | 18 | 18 | 7'-2" | 2 1/2" |
| P502 | 9 | 9 | 24'-8" | Str. |
| P901 | 2 | 2 | 24'-8" | Str. |

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|---------------------|-------|--------------------|-----------|--------------|
| 6-24-94 | 6-27-94 | 11-16-2001 | | | 6 | ARK. | | |
| 2-20-97 | 2-20-97 | 10-09-03 | | | | | 20 | |
| 01-12-2000 | 01-12-2000 | | | | | | | |

25' PRECAST SPAN 15241

GENERAL NOTES
 All reinforcing steel shall be AASHTO M31 or M53, Grade 60. Wire fabric shall be AASHTO M55 or M221. Reinforcing steel and wire fabric shall be accurately located in the forms and securely held in place by steel wire supports.

Concrete for precast units shall be Class (S)(A) except that the coarse aggregate size shall meet AASHTO M43, Size 67 (3/4" Max.).

Standard washers shall be provided under head and nut of all bolts in connection with concrete. Bolts shall be A307. All bolts, washers and nuts shall be galvanized to meet AASHTO M232, Class C or M298, Class 50.

Screw Anchor and Bolt Assembly (SCAB) shall be 1/2" x 3" Richmond Screw Anchor or equal, and have a minimum ultimate strength of 65,000 psi in tension. Assembly shall be galvanized to meet AASHTO M232, Class C or M298, Class 50. Plate Washers for SCAB shall be AASHTO M270, Grade 36 and shall be galvanized to meet AASHTO M111.

Camber required for dead load deflection is 1/4". Deviation of more than 1/4" in dimension of grade or line will be cause for rejection.

Concrete, reinforcing, wire mesh, bar supports, bolts, nuts, washers, threaded anchors, grout, roofing felt bearing pad and expansion joint fillers are considered subsidiary to the pay items for the Precast Concrete Units. Roofing felt shall meet or exceed the requirements of ASTM D224 Type I. See Section 802.01(d). The roofing felt shall be in one piece for the full length of the cap and three layers shall be used.

Ends of adjacent units shall be coated (1/8") with asphaltic paint. The coating shall adhere and set firm and its softening point shall not be less than 140°F.

Bid items shall be as follows:
 "25' Precast Concrete Curb Units"
 "25' Precast Concrete Interior Units"
 "25' Precast Parapet Rail Units"

Design Specifications: AASHTO 2002
 Method of Design: Load Factor
 Live Loading: HS 20, 0.9 Wheels per Unit
 Materials: 28 Day compressive strength of Concrete = 4,000 psi
 Yield strength of Grade 60 Steel = 60,000 psi
 Yield strength of Wire Fabric = 65,000 psi

Seismic Performance Category: A, B or C
 Seismic Performance Category A:
 1. Maximum spacing between 1 Inch Expansion Joints is 155 feet.
 2. 2" Dowel holes at expansion ends are not required. Grout holes if they exist.

Seismic Performance Category B or C:
 All bents shall be fixed.
 2. Do not use this drawing with bridge lengths that exceed 155 feet in Category B or 93 feet in Category C.

Note: For details and bar list for Precast Parapet Rail at End Span, see std. drwg. no. 15230.

Completely fill 1/4" gap below end strut at End Bent with Roofing Felt (All Units).
 Seal with Poured Joint Sealer (See "Section At Exp. Joint").

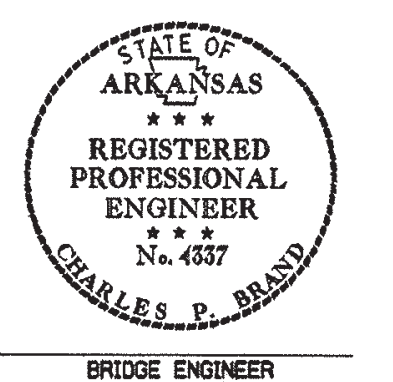
Note: After each unit is in its final position, S601E Dowels shall be grouted in place using a OPL approved non-shrink grout that completely fills the holes.

Note: Expansion Joints to be placed at approximately 155' max. spacings.

Note: Expansion Joint shall consist of 1" Joint Filler topped with 1" x 2" Poured Joint Sealer. Joint Filler shall be AASHTO M153, Type I. Poured Joint Sealer shall meet subsection 501.02(h) (2), Type 3, 4, 5 or 6.

DETAILS OF STANDARD 25'-0" PRECAST CONCRETE SPANS 28'-0" & 24'-6" CLEAR ROADWAYS
 ROUTE SEC.
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

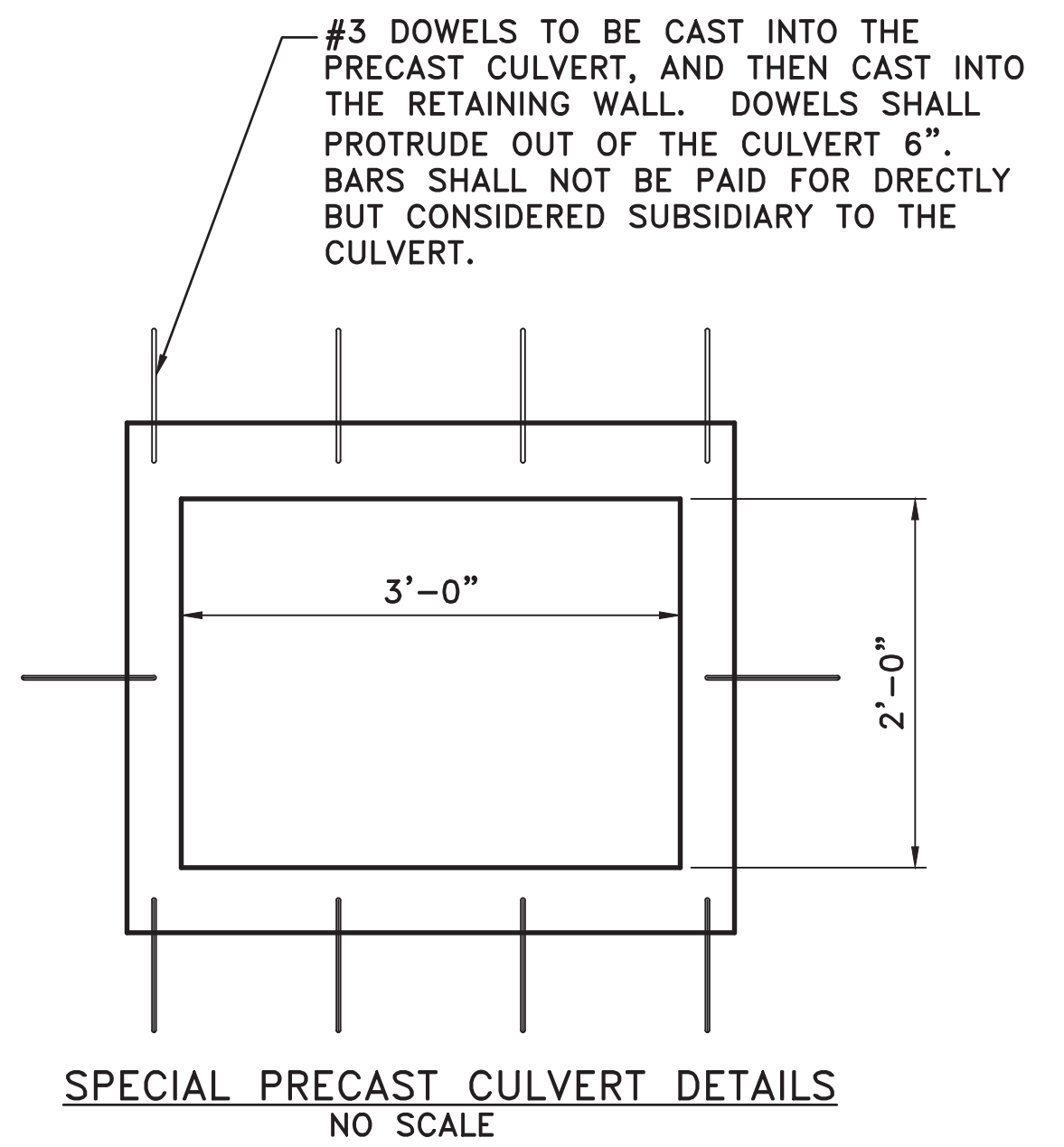
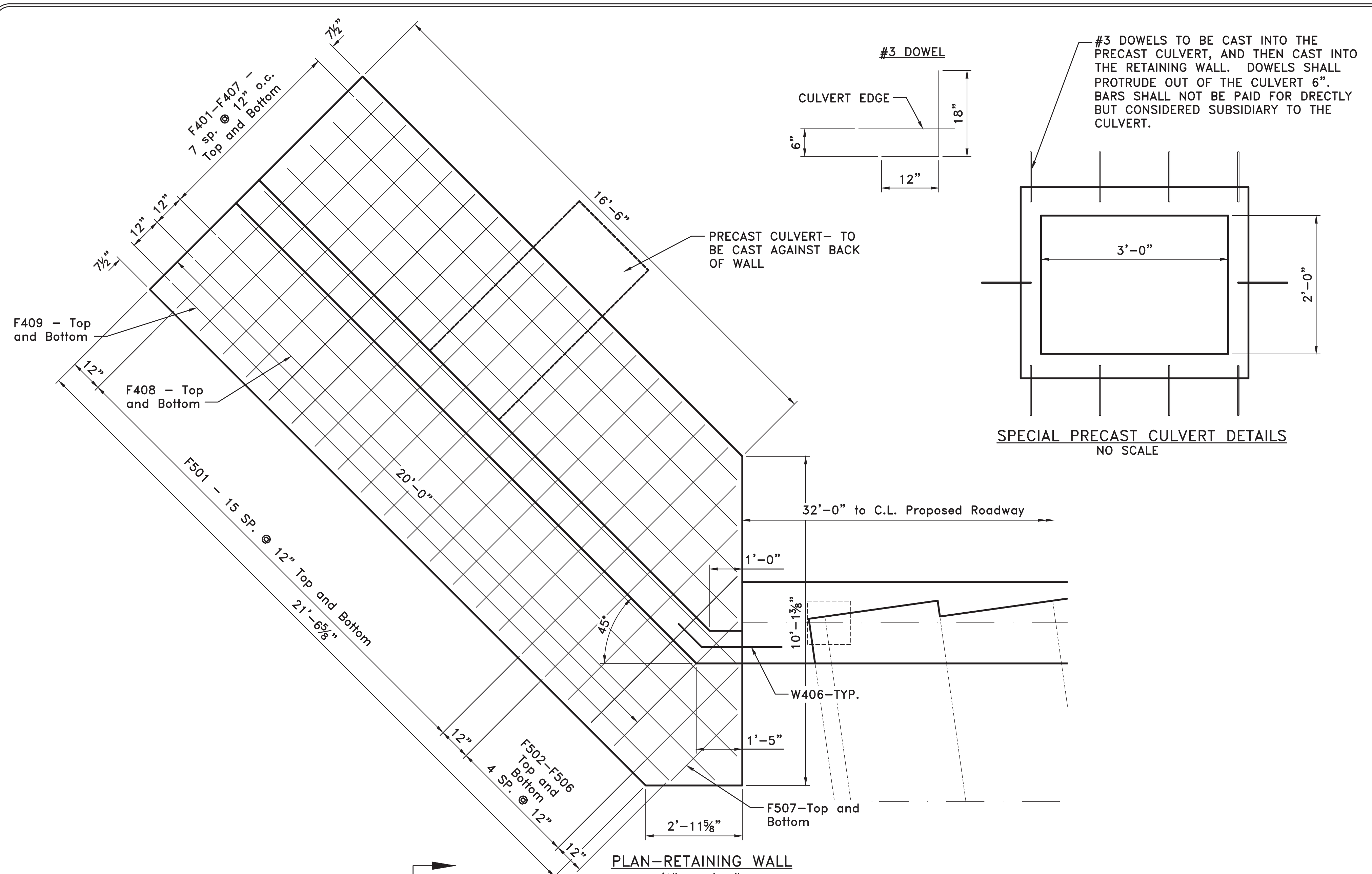
DRAWN BY: MJT DATE: 01-09-97
 CHECKED BY: RLW DATE: 01-31-97
 DESIGNED BY: STD. DATE: -
 BRIDGE NO. SCALE: As Shown
 DRAWING NO. 15241



- Revised for current specifications and P.E. stamp 10-09-03 MJT Chk'd. By: JGT
- Revised S601bars to S601E 11-16-2001, JAC Chk'd. by: JGT
- Revised type of bearing pad material and grout specifications. 01-12-2000, AMS
- Revised for 1996 Specs. and Redrawn 02-20-97 MJT Chk'd. By: RLW Date: 1-31-97

FILE NAME: B15240, STD

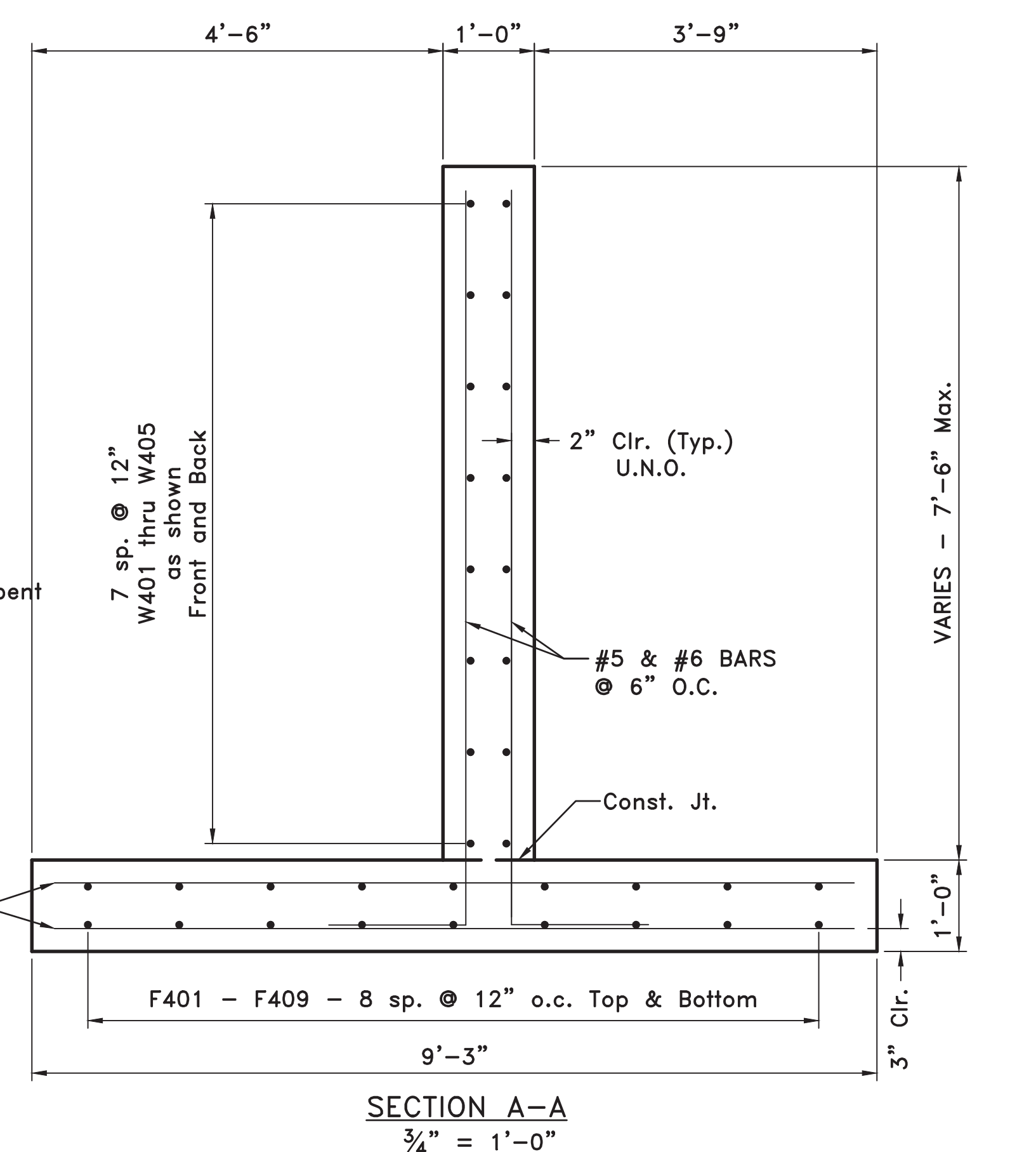
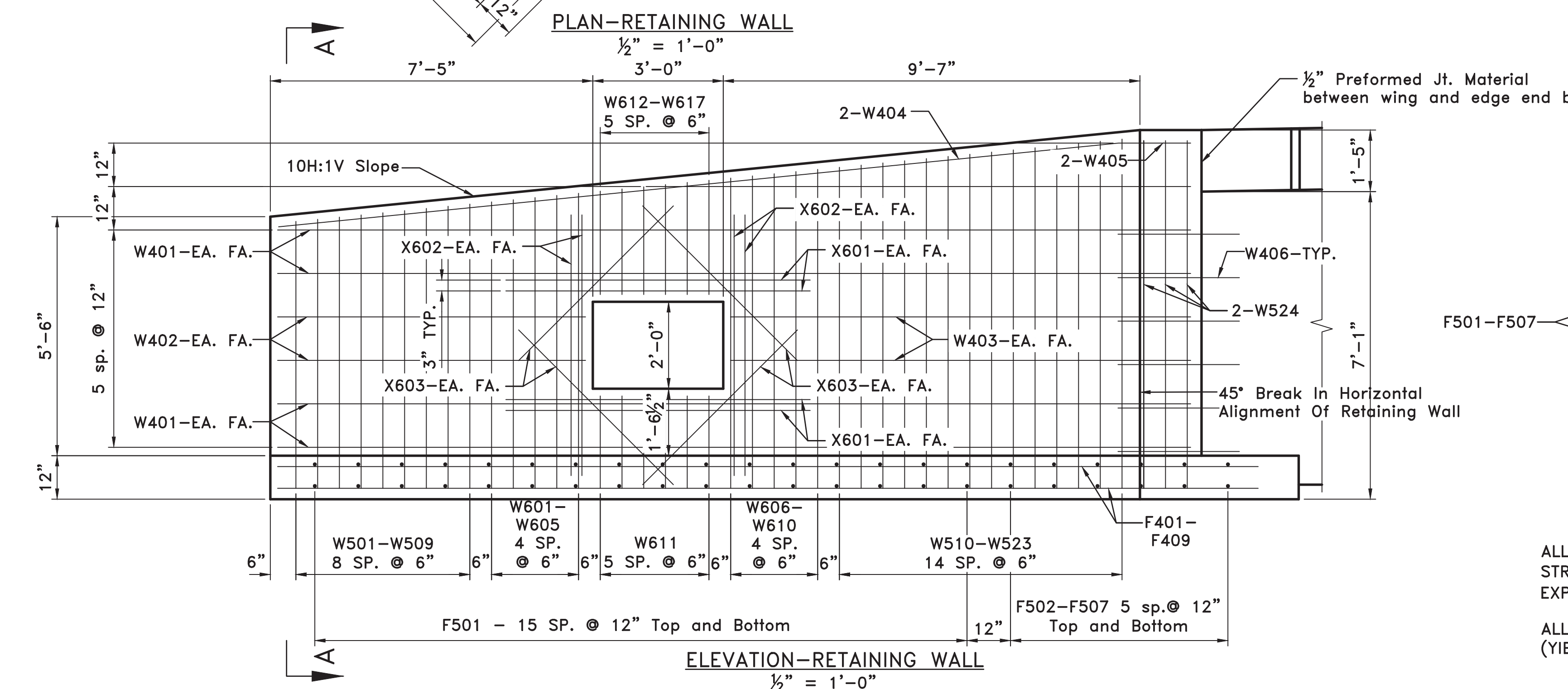
B15241, STD



BAR LIST - SLAB & FOOTING

| MARK | NO. | REQ'D. | LENGTH | P.D. |
|-----------|-----|--------|------------------|--------|
| F401-F407 | 2 | each | 16'-5" to 22'-6" | STR. |
| F408 | 2 | | 22'-6" | STR. |
| F409 | 2 | | 21'-6" | STR. |
| F501 | 32 | | 8'-9" | STR. |
| F502-F506 | 2 | each | 4'-1" to 8'-1" | STR. |
| F507 | 2 | | 2'-7" | STR. |
| W401 | 8 | | 21'-0" | 3" |
| W402 | 4 | | 7'-1" | STR. |
| W403 | 4 | | 10'-5" | 3" |
| W404 | 2 | | 19'-5" | STR. |
| W405 | 2 | | 1'-4" | STR. |
| W406 | 6 | | 3'-11" | 3" |
| W501-W509 | 2 | each | 7'-5" to 7'-11" | 3 3/4" |
| W510-W523 | 2 | each | 8'-6" to 9'-4" | 3 3/4" |
| W524 | 6 | | 9'-4" | 3 3/4" |
| W601-W605 | 2 | each | 8'-0" to 8'-2" | 4 1/2" |
| W606-W610 | 2 | each | 8'-6" to 8'-9" | 4 1/2" |
| W611 | 12 | | 3'-6" | 4 1/2" |
| W612-W617 | 2 | each | 2'-4" to 2'-8" | STR. |
| X601 | 8 | | 7'-0" | STR. |
| X602 | 8 | | 6'-0" | STR. |
| X603 | 8 | | 5'-1" | STR. |

DIMENSIONS ARE OUT TO OUT OF BARS.



SECTION A-A
3/4" = 1'-0"

GENERAL NOTES

ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH $f'_c = 3,500$ PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD RECONSTRUCTION
BENT 1 RETAINING WALL

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18018
JUSTIN P. CARNEY
2/3/2020

DRAWN BY
KDH
DESIGNED
JPC
CHECKED
SFH
DATE
06/2019
SCALE
AS NOTED
PROJECT NO.
CLR #7-17-ST-357
SHEET NO.
S6

| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
 CHICOT ROAD RECONSTRUCTION
 BENT 3 RETAINING WALL

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201

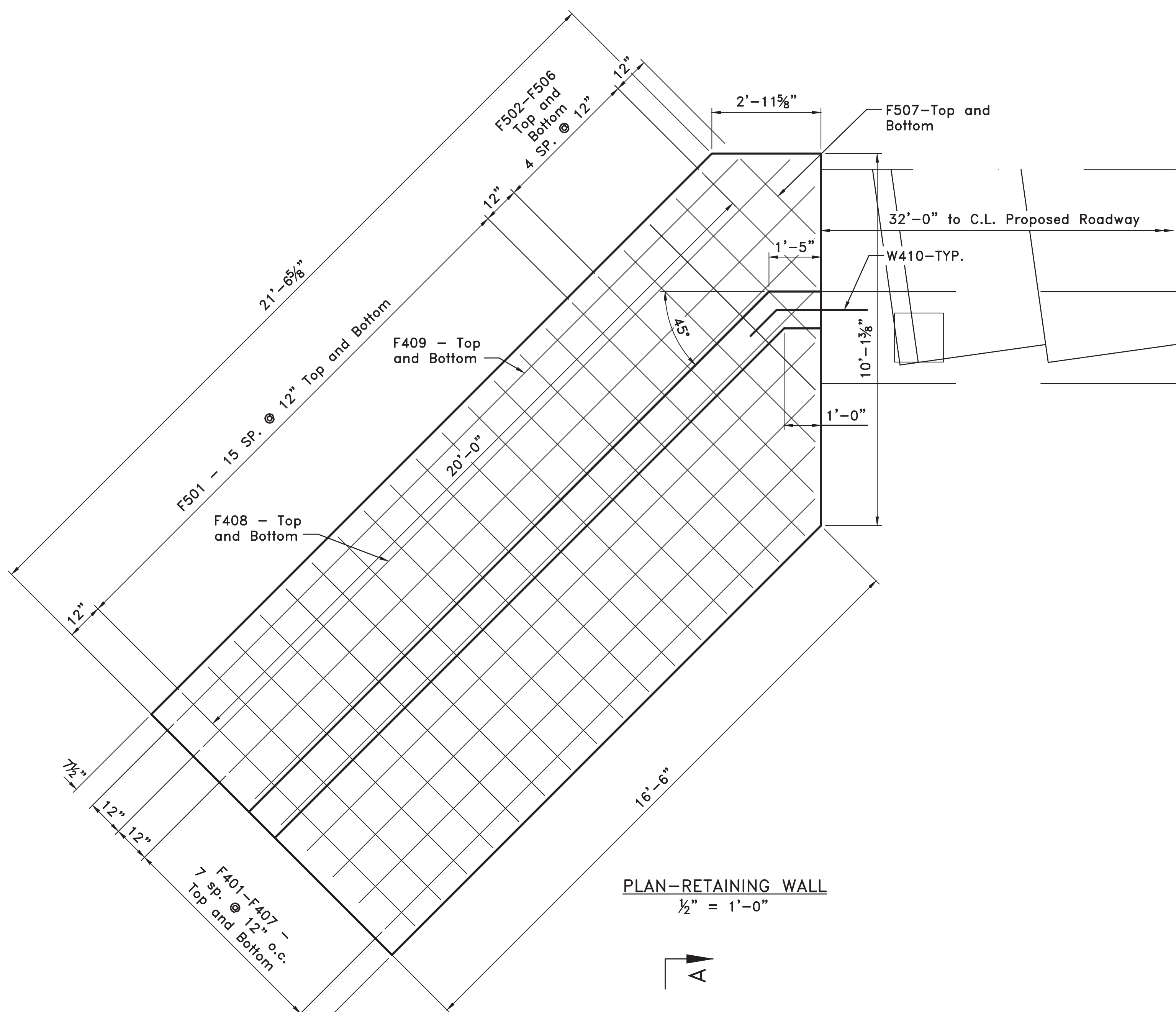
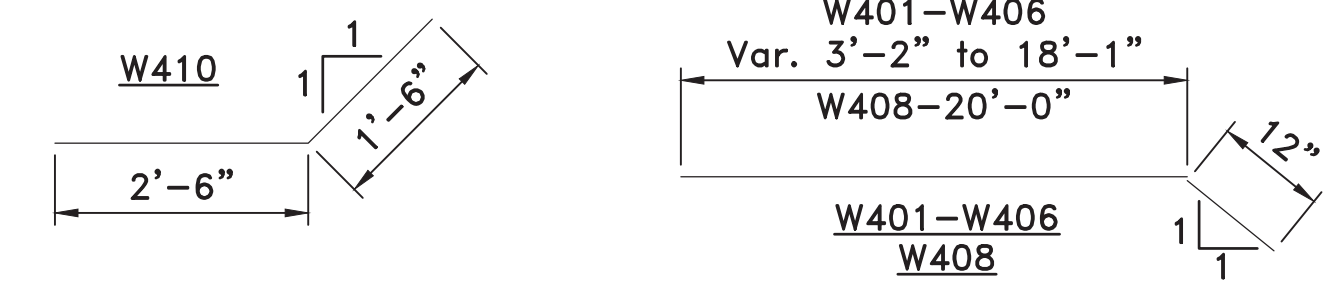
STATE OF ARKANSAS
 LICENSED PROFESSIONAL ENGINEER
 No. 18018
 JUSTIN P. CARNEY
 2/3/2020

DRAWN BY
 KDH
 DESIGNED
 JPC
 CHECKED
 SFH
 DATE
 06/2019
 SCALE
 AS NOTED
 PROJECT NO.
 CLR #7-17-ST-357
 SHEET NO.
 S7

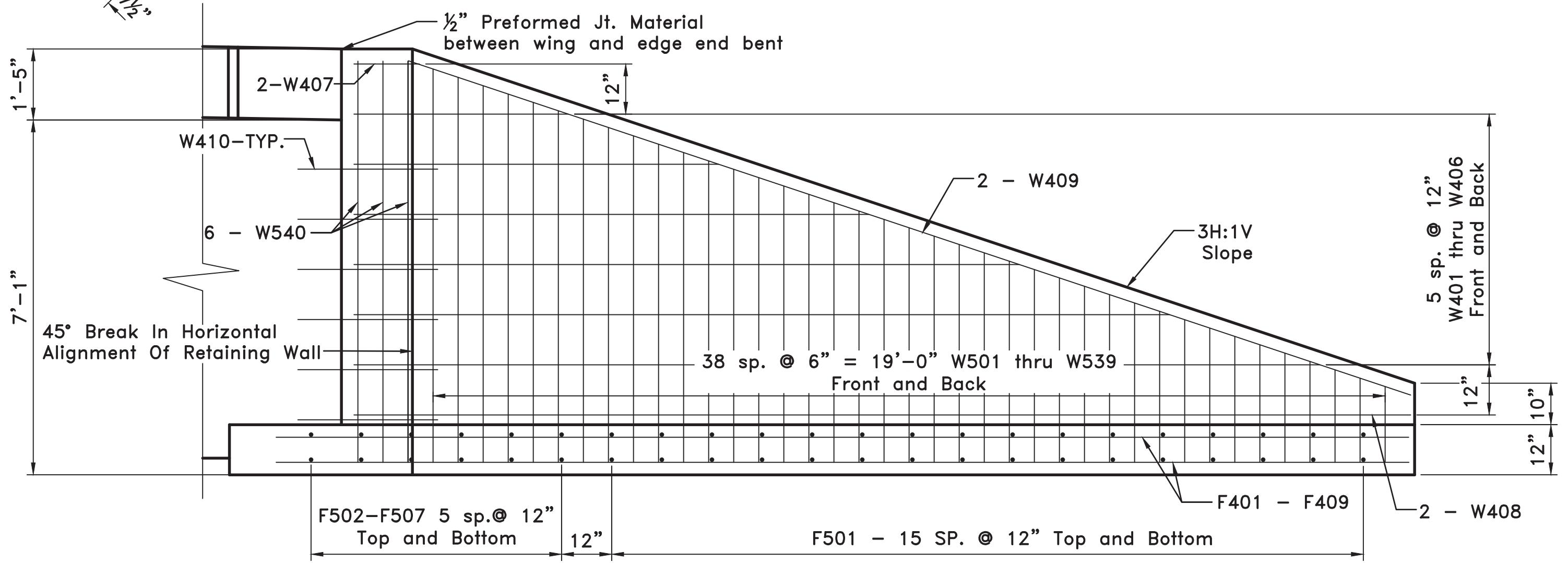
BAR LIST - SLAB & FOOTING

| MARK | NO. | REQ'D. | LENGTH | P.D. |
|-----------|-----|--------|------------------|--------|
| F401-F407 | 2 | each | 16'-5" to 22'-6" | STR. |
| F408 | 2 | | 22'-6" | STR. |
| F409 | 2 | | 21'-6" | STR. |
| F501 | 32 | | 8'-9" | STR. |
| F502-F506 | 2 | each | 4'-1" to 8'-1" | STR. |
| F507 | 2 | | 2'-7" | STR. |
| W401-W406 | 2 | each | 4'-2" to 19'-1" | 3" |
| W407 | 2 | | 1'-4" | STR. |
| W408 | 2 | | 21'-0" | 3" |
| W409 | 2 | | 21'-1" | STR. |
| W410 | 6 | | 3'-11" | 3" |
| W501-W539 | 2 | each | 3'-0" to 9'-2" | 3 3/4" |
| W540 | 6 | | 9'-4" | 3 3/4" |

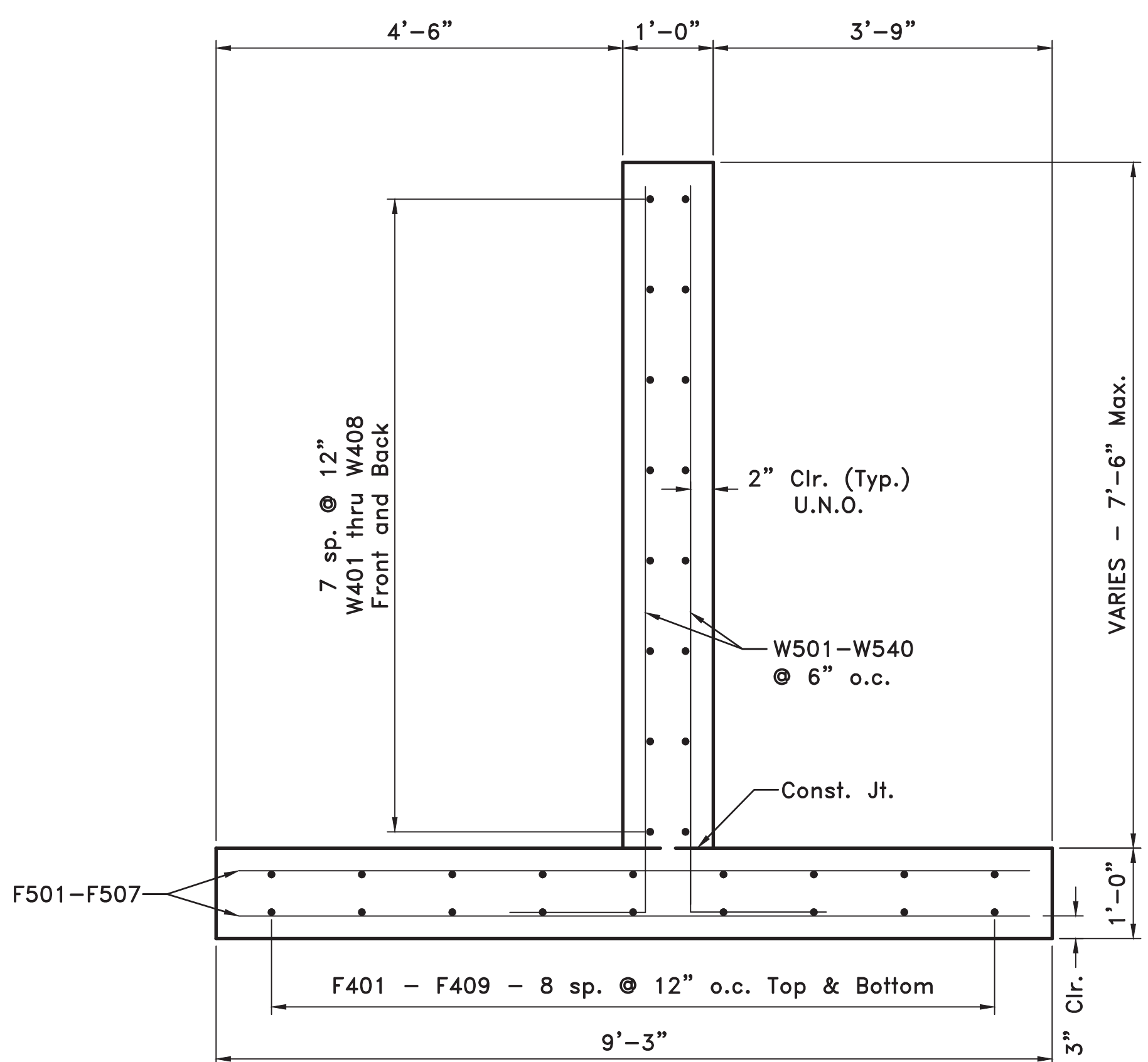
DIMENSIONS ARE OUT TO OUT OF BARS.



PLAN-RETAINING WALL
 1/2" = 1'-0"



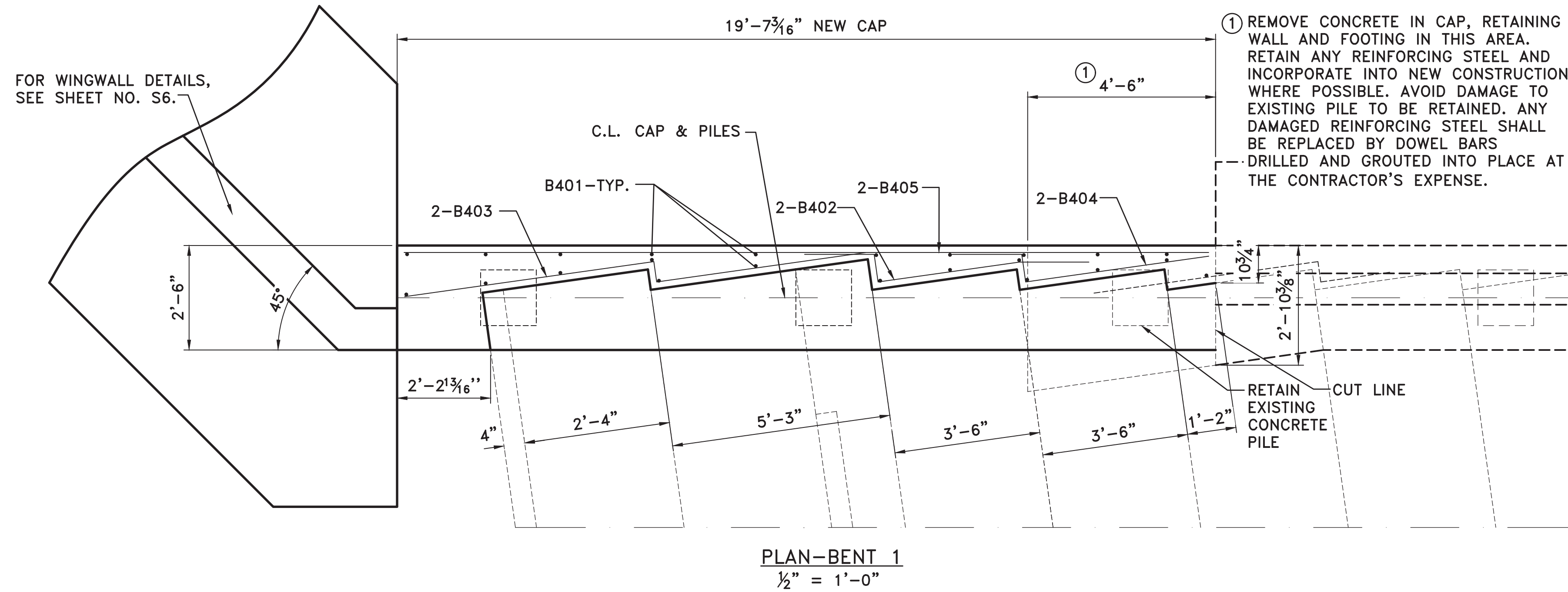
ELEVATION-RETAINING WALL
 1/2" = 1'-0"



SECTION A-A
 3/4" = 1'-0"

GENERAL NOTES

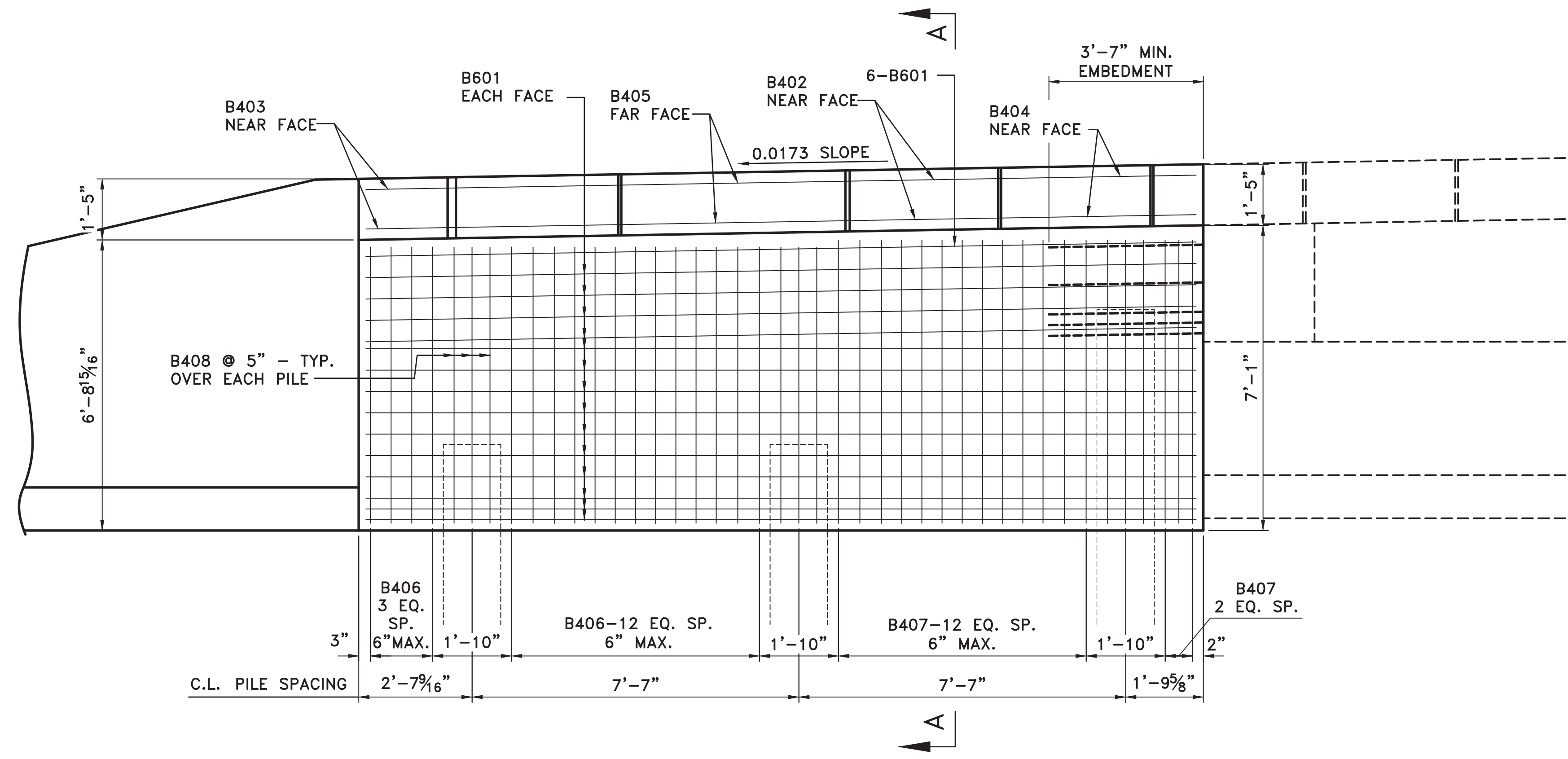
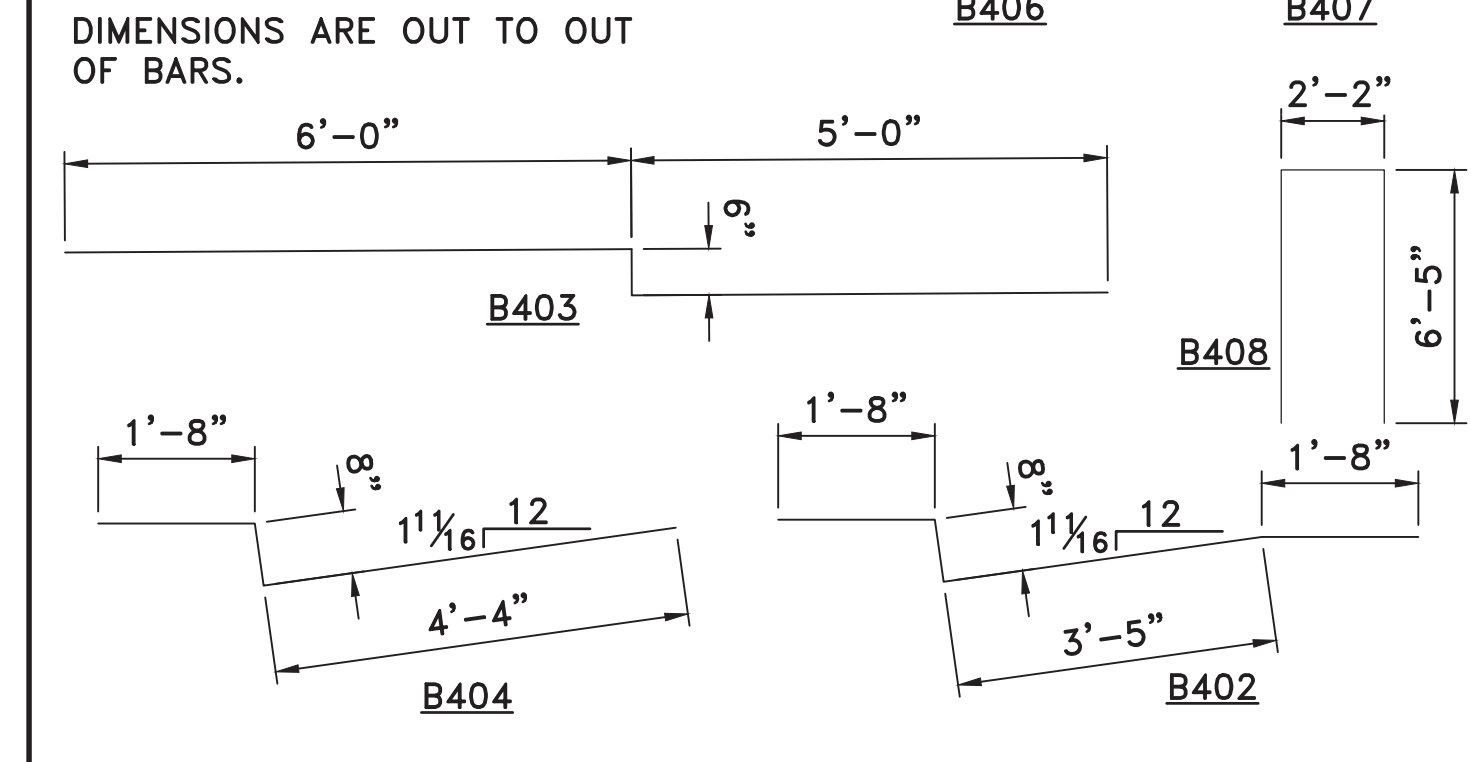
ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH $f'_c = 3,500$ PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
 ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).



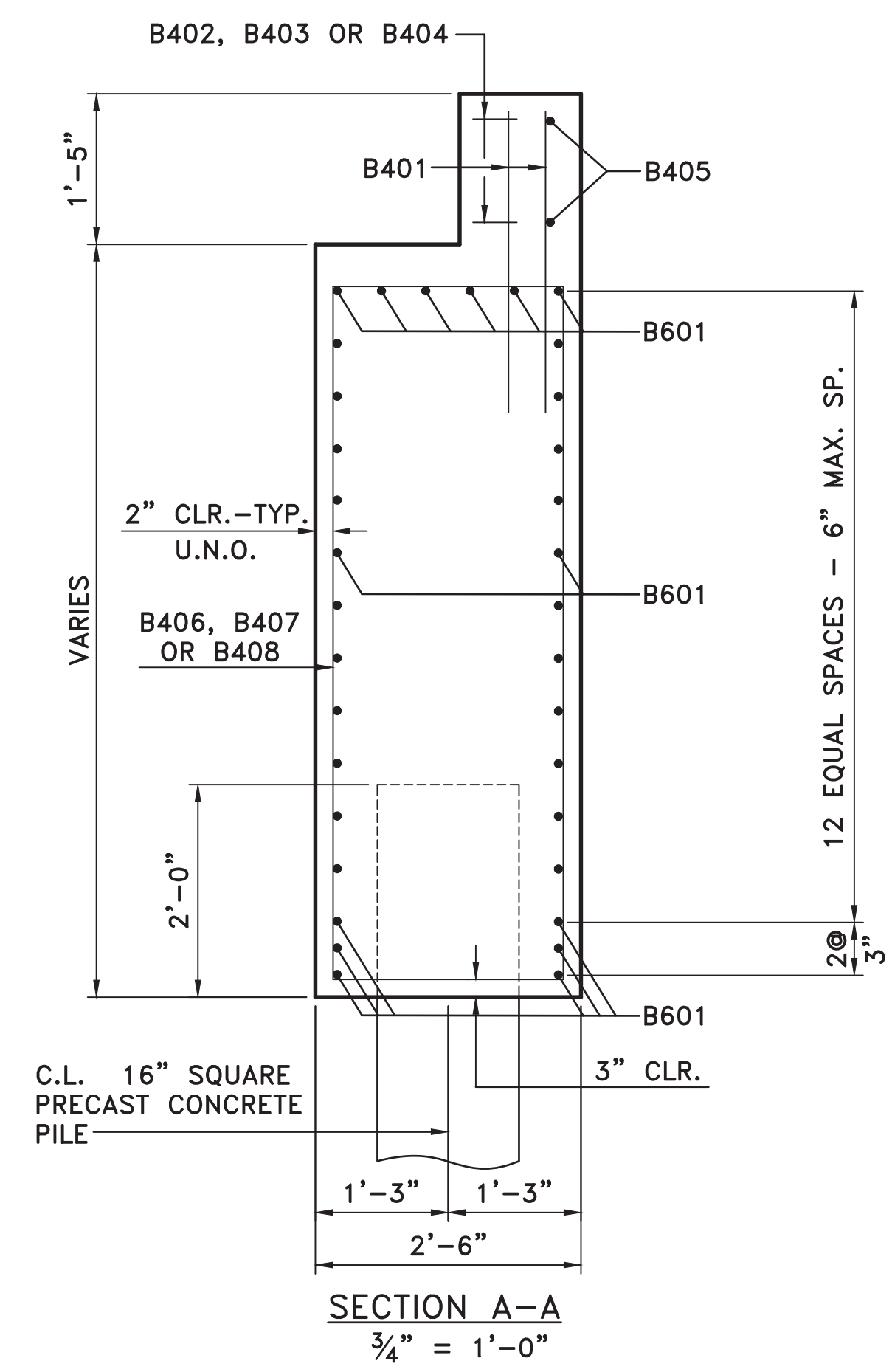
PLAN-BENT 1
1/2" = 1'-0"

BAR LIST - BENT 1

| MARK | NO. | REQ'D. | LENGTH | P.D. |
|------|-----|--------|---------|------|
| B401 | 23 | | 2'-10" | STR. |
| B402 | 2 | | 7'-3" | 2" |
| B403 | 2 | | 11'-4" | 2" |
| B404 | 2 | | 6'-5" | 2" |
| B405 | 2 | | 19'-3" | STR. |
| B406 | 17 | | 17'-6" | 2" |
| B407 | 16 | | 17'-10" | 2" |
| B408 | 9 | | 14'-10" | 2" |
| B601 | 34 | | 19'-3" | STR. |



ELEVATION-BENT 1
LOOKING BACK
1/2" = 1'-0"



SECTION A-A
3/4" = 1'-0"

GENERAL NOTES

ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH $f'_c = 3,500$ PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

| REVISIONS | DATE |
|-----------|------|
| | |

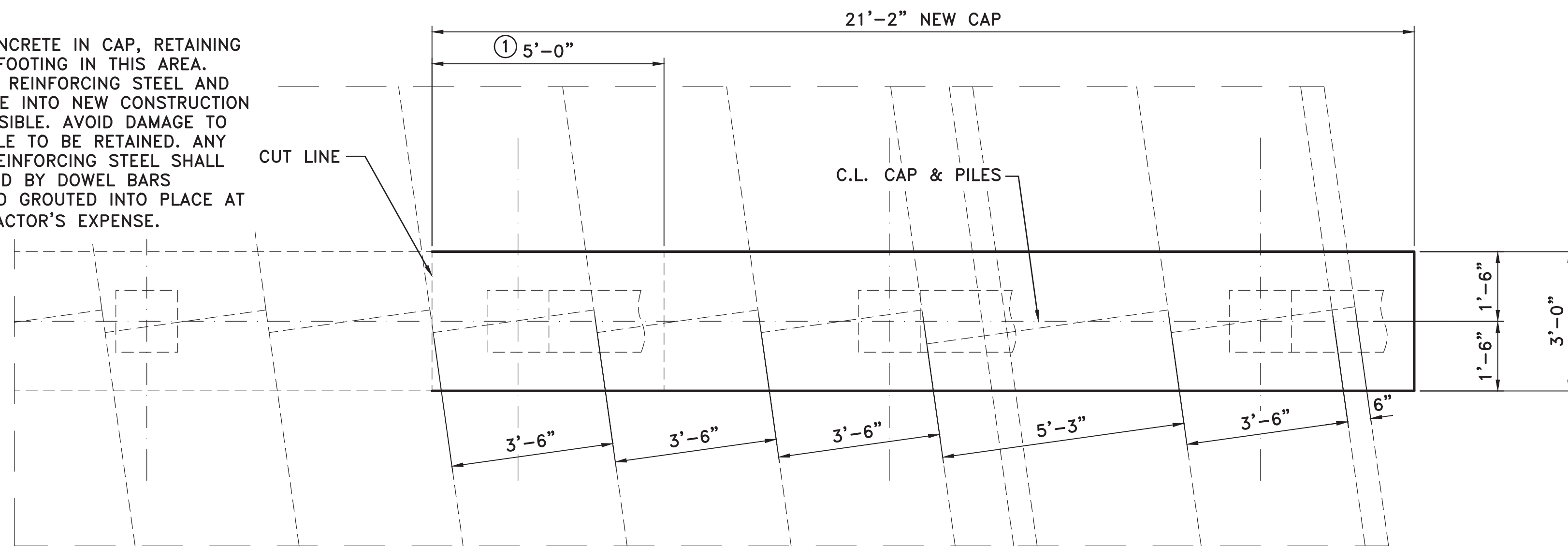
CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD RECONSTRUCTION
BENT 1 DETAILS

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18018
JUSTIN P. CARNEY
2/16/2020

DRAWN BY
KDH
DESIGNED
JPC
CHECKED
SFH
DATE
06/2019
SCALE
AS NOTED
PROJECT NO.
CLR #7-17-ST-357
SHEET NO.
S8

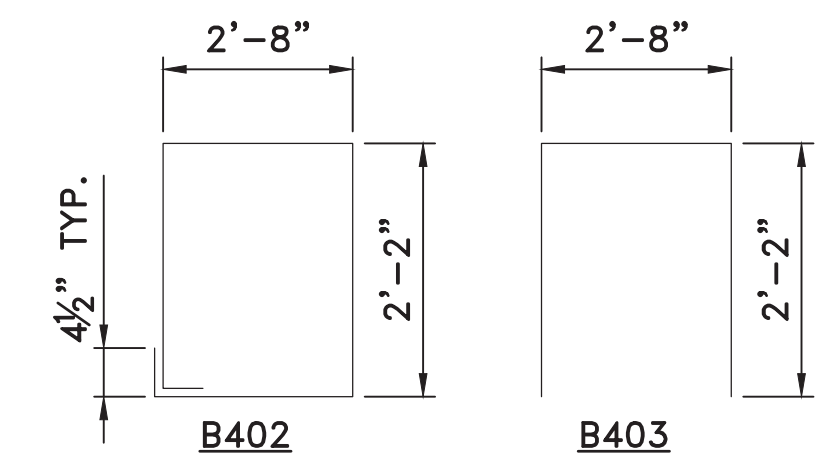
① REMOVE CONCRETE IN CAP, RETAINING WALL AND FOOTING IN THIS AREA. RETAIN ANY REINFORCING STEEL AND INCORPORATE INTO NEW CONSTRUCTION WHERE POSSIBLE. AVOID DAMAGE TO EXISTING PILE TO BE RETAINED. ANY DAMAGED REINFORCING STEEL SHALL BE REPLACED BY DOWEL BARS DRILLED AND GROUTED INTO PLACE AT THE CONTRACTOR'S EXPENSE.



PLAN-BENT 2
1/2" = 1'-0"

BAR LIST - BENT 2

| MARK | NO. | REQ'D. | LENGTH | P.D. |
|------|-----|--------|---------|------|
| B401 | 2 | | 20'-10" | STR. |
| B402 | 25 | | 10'-0" | 2" |
| B403 | 9 | | 6'-10" | 2" |
| B601 | 12 | | 20'-10" | STR. |
| | | | | |
| | | | | |
| | | | | |



DIMENSIONS ARE OUT TO OUT OF BARS.

| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD RECONSTRUCTION

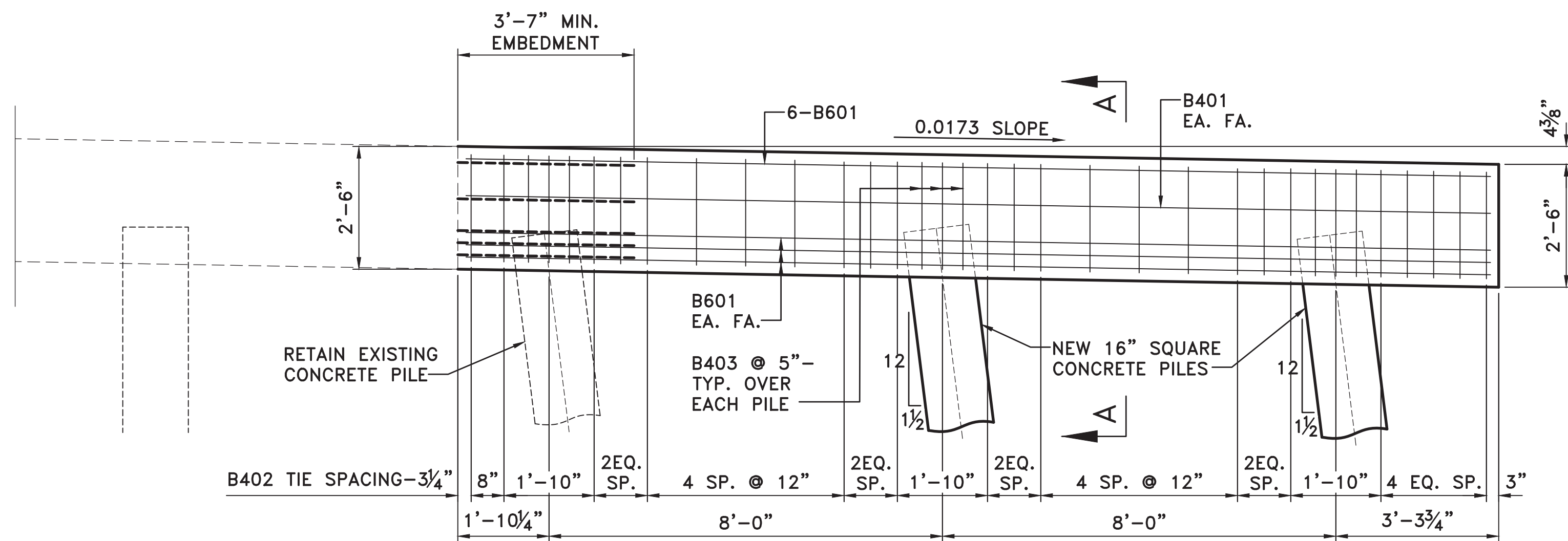
BENT 2 DETAILS



DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



DRAWN BY
KDH
DESIGNED
JPC
CHECKED
SFH
DATE
06/2019
SCALE
AS NOTED
PROJECT NO.
CLR #7-17-ST-357
SHEET NO.
S9

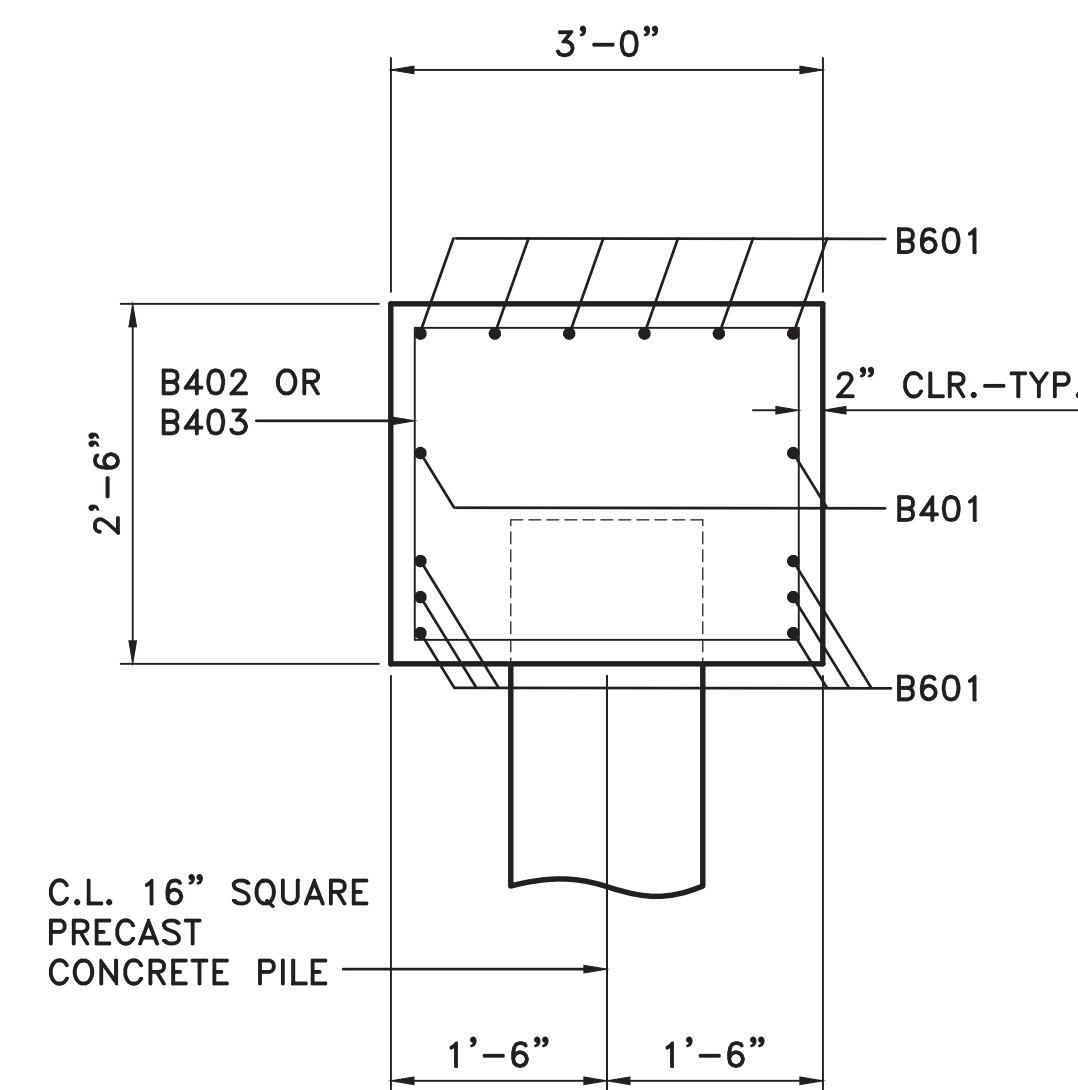


ELEVATION-BENT 2
LOOKING AHEAD
1/2" = 1'-0"

GENERAL NOTES

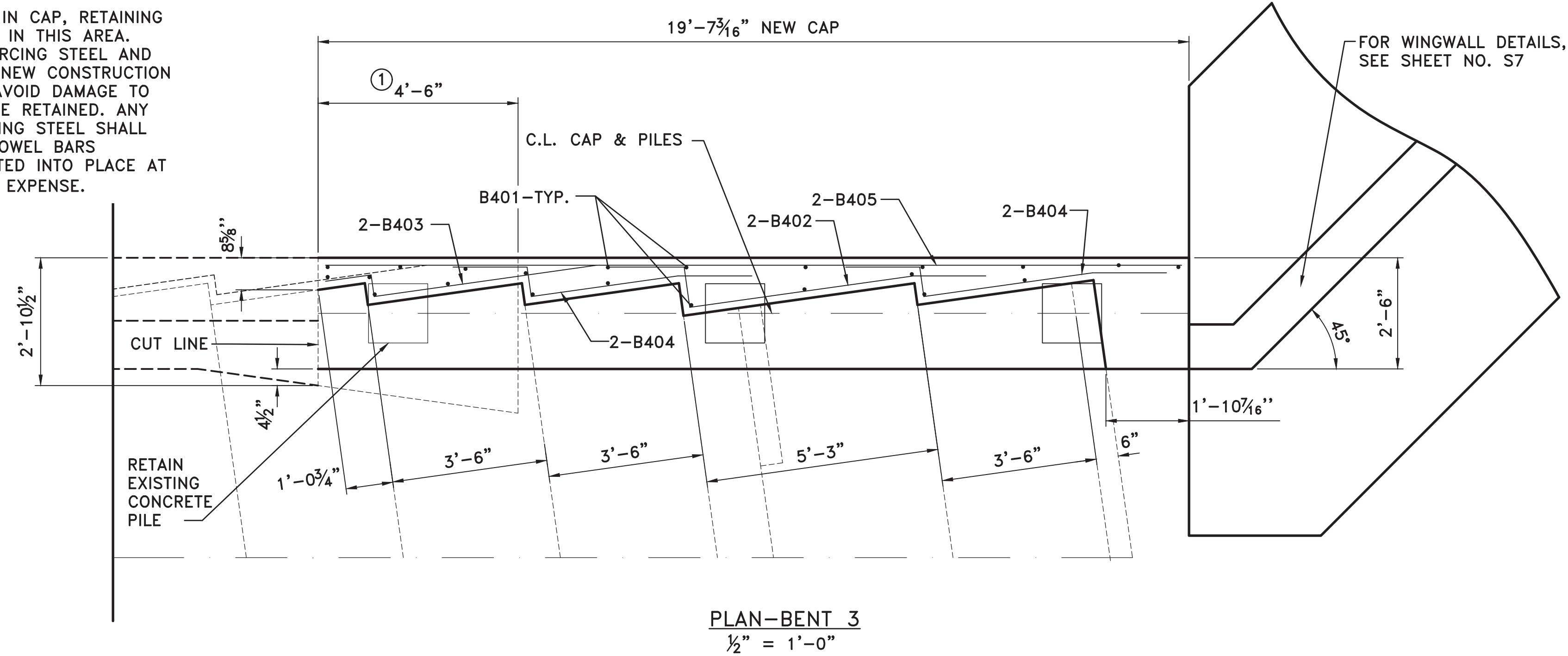
ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH $f'_c = 3,500$ PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

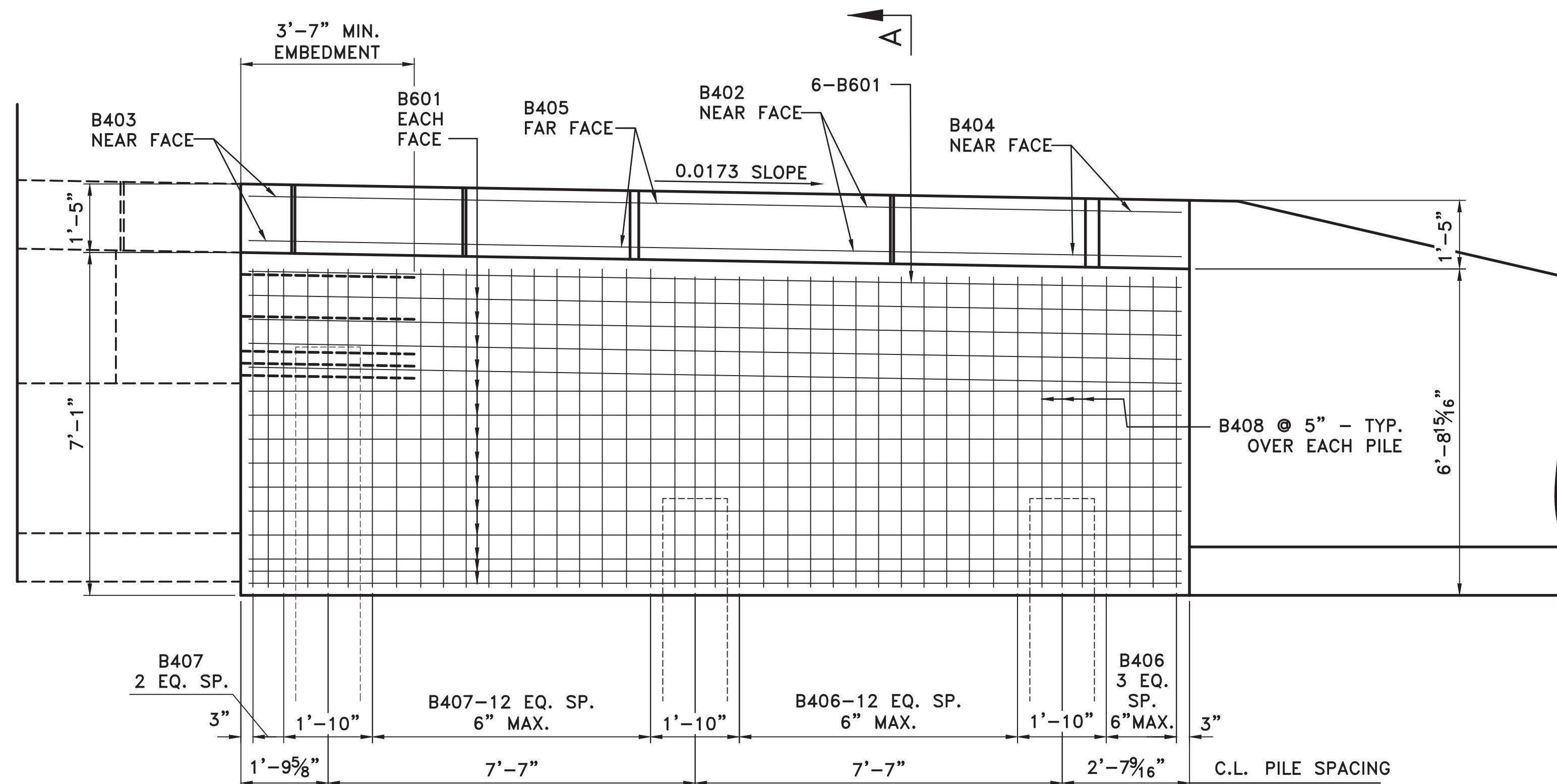


SECTION A-A
3/4" = 1'-0"

① REMOVE CONCRETE IN CAP, RETAINING WALL AND FOOTING IN THIS AREA. RETAIN ANY REINFORCING STEEL AND INCORPORATE INTO NEW CONSTRUCTION WHERE POSSIBLE. AVOID DAMAGE TO EXISTING PILE TO BE RETAINED. ANY DAMAGED REINFORCING STEEL SHALL BE REPLACED BY DOWEL BARS DRILLED AND GROUTED INTO PLACE AT THE CONTRACTOR'S EXPENSE.



PLAN-BENT 3
1/2" = 1'-0"



ELEVATION-BENT 3
LOOKING BACK
1/2" = 1'-0"

GENERAL NOTES

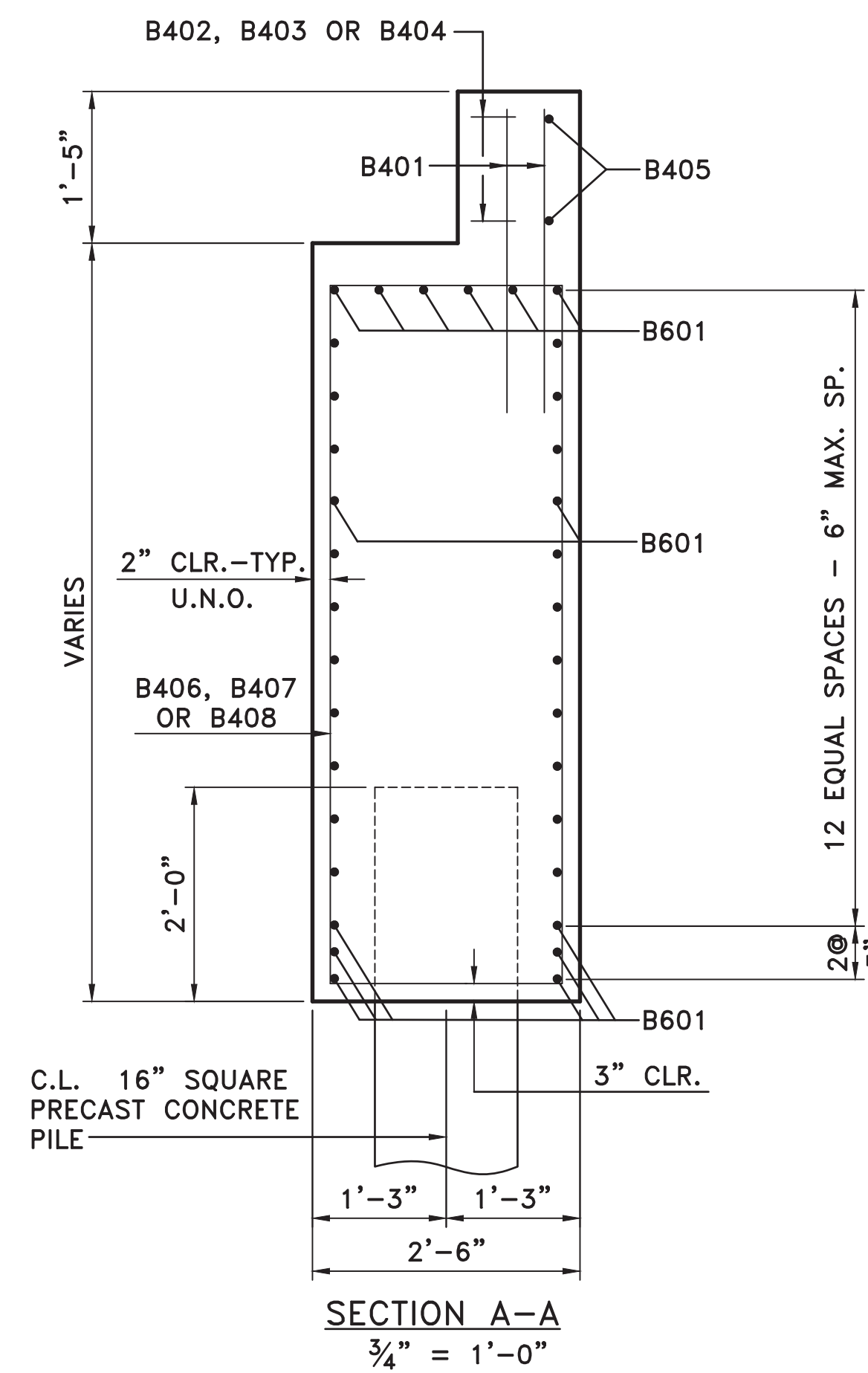
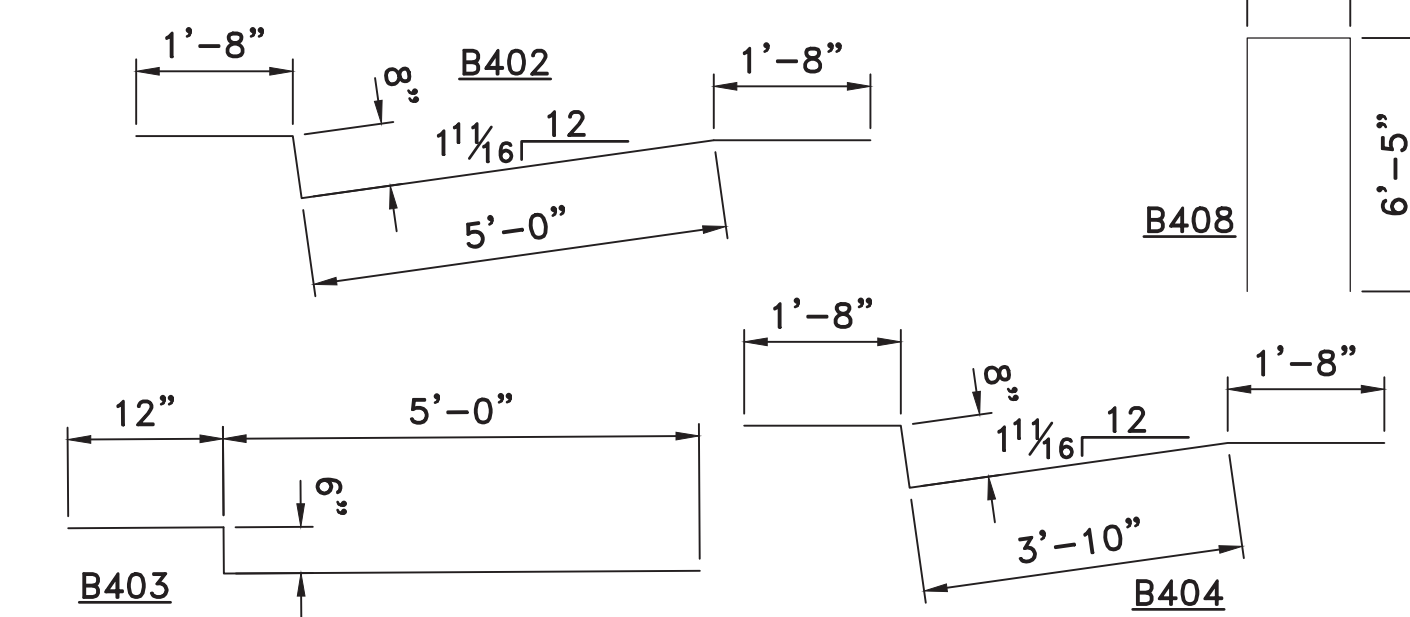
ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH $f'_c = 3,500$ PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

BAR LIST - BENT 1

| MARK | NO. | REQ'D. | LENGTH | P.D. |
|------|-----|--------|---------|------|
| B401 | 22 | | 2'-10" | STR. |
| B402 | 2 | | 8'-10" | 2" |
| B403 | 2 | | 6'-4" | 2" |
| B404 | 4 | | 7'-8" | 2" |
| B405 | 2 | | 19'-3" | STR. |
| B406 | 17 | | 17'-6" | 2" |
| B407 | 16 | | 17'-10" | 2" |
| B408 | 9 | | 14'-10" | 2" |
| B601 | 34 | | 19'-3" | STR. |

DIMENSIONS ARE OUT TO OUT OF BARS.



SECTION A-A
3/4" = 1'-0"

| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD RECONSTRUCTION

BENT 3 DETAILS




DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



| |
|---------------------------------|
| DRAWN BY KDH |
| DESIGNED JPC |
| CHECKED SFH |
| DATE 06/2019 |
| SCALE AS NOTED |
| PROJECT NO. CLR #7-17-ST-357 |
| SHEET NO. S10 |

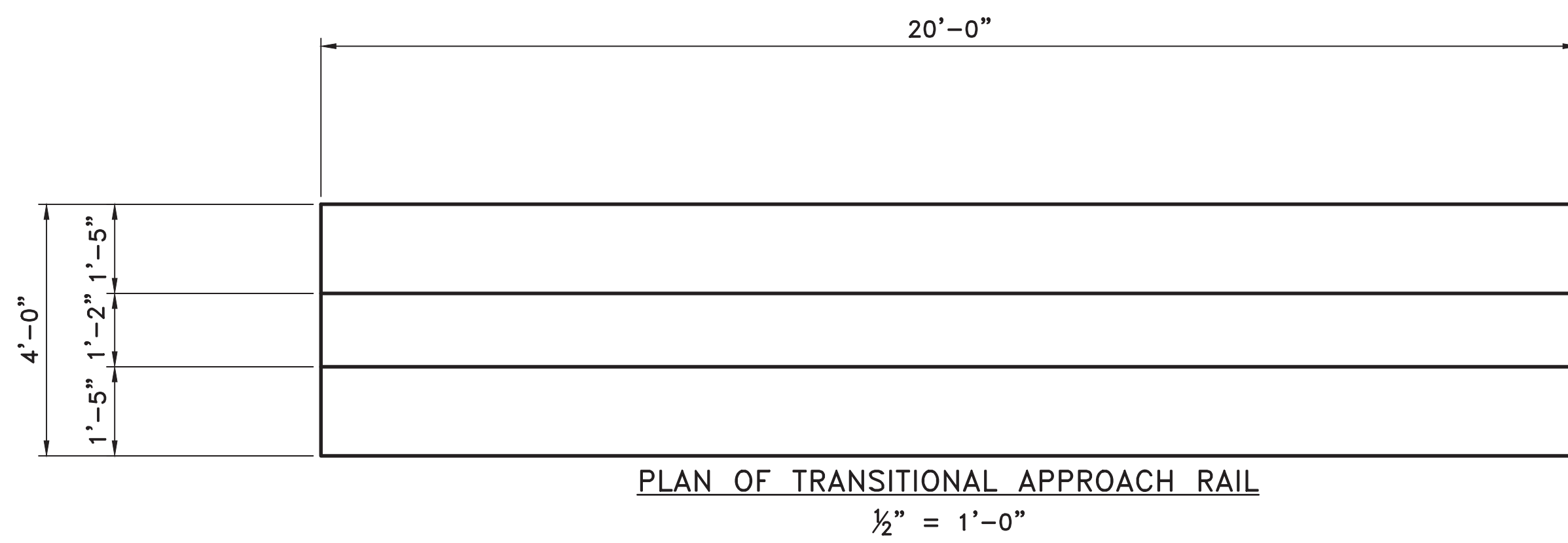
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD RECONSTRUCTION
TRANSITIONAL APPROACH RAIL


 DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201

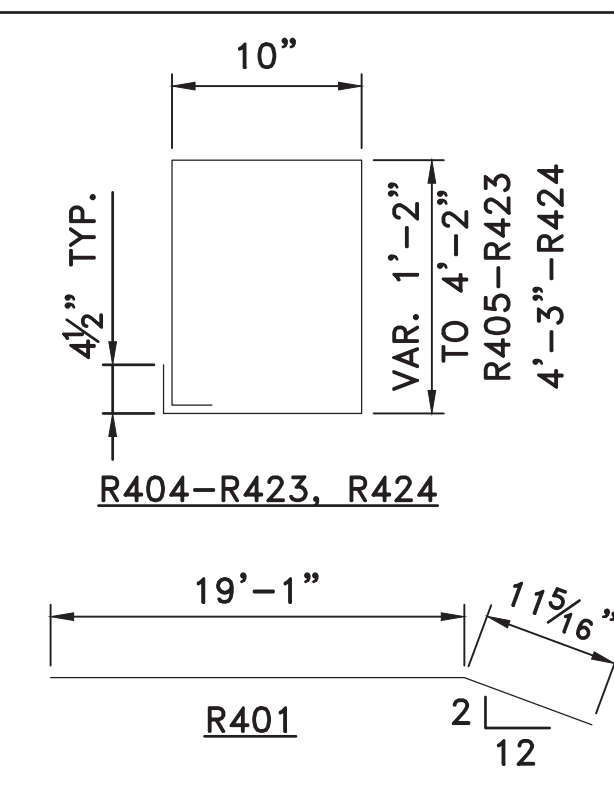

 JUSTIN P. CARNEY
 No. 18018
 2/3/2020

| |
|---------------------------------|
| DRAWN BY KDH |
| DESIGNED JPC |
| CHECKED SFH |
| DATE 06/2019 |
| SCALE AS NOTED |
| PROJECT NO. CLR #7-17-ST-357 |
| SHEET NO. S11 |



BAR LIST - ONE TRANSITIONAL RAIL

| MARK | NO. REQ'D. | LENGTH | P.D. |
|-----------|------------|-----------------|------|
| R401 | 2 | 20'-1" | STR. |
| R402 | 2 | 7'-6" | STR. |
| R403 | 2 | 13'-8" | STR. |
| R404 | 2 | 19'-8" | STR. |
| R405-R423 | 1 EACH | 4'-4" TO 10'-4" | 2" |
| R424 | 1 | 10'-6" | 2" |
| F401 | 8 | 19'-8" | STR. |
| F402 | 40 | 3'-8" | STR. |



GENERAL NOTES

TRANSITIONAL APPROACH RAILING SHALL BE PLACED AT LOCATIONS SHOWN IN THE PLANS.

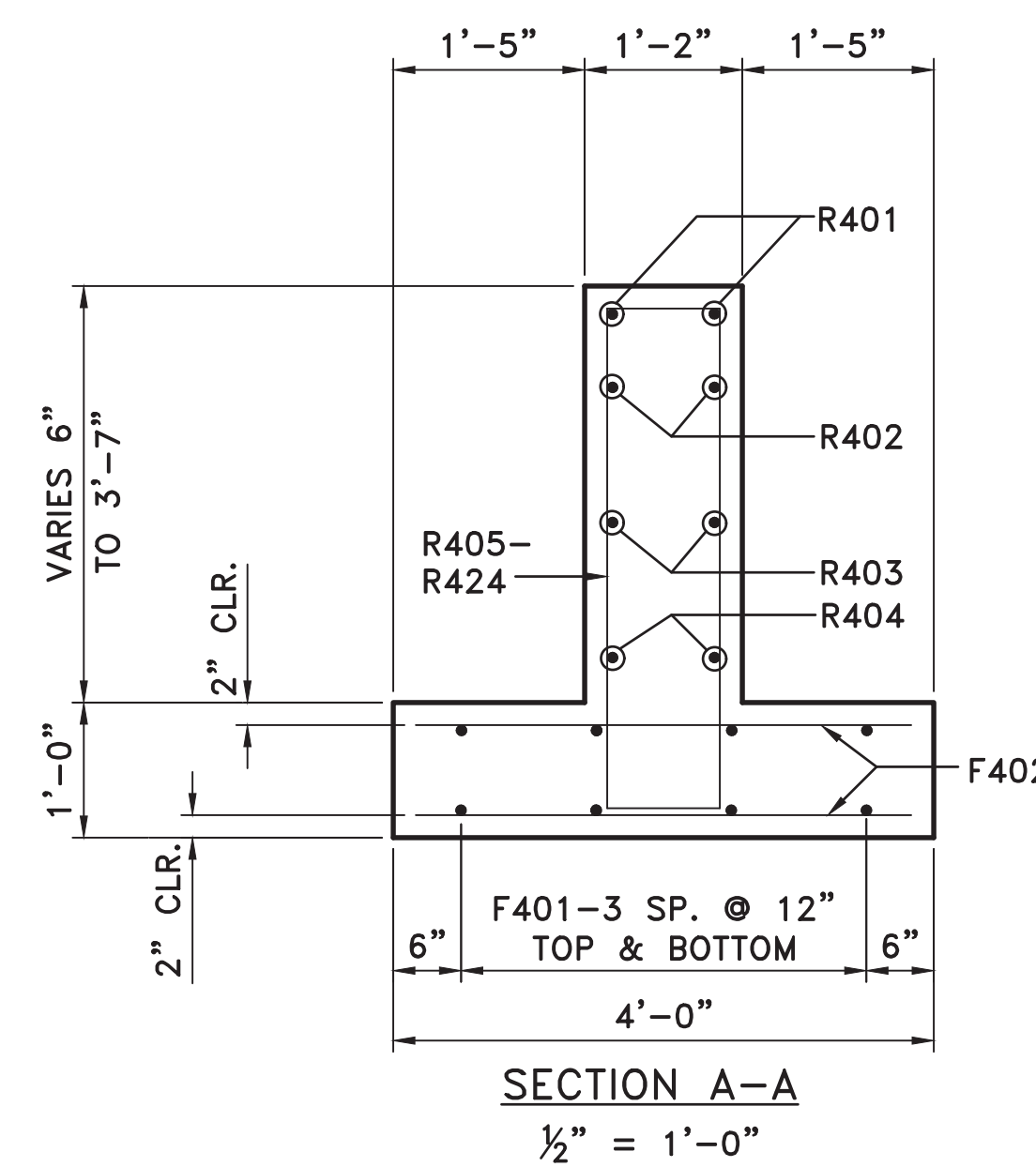
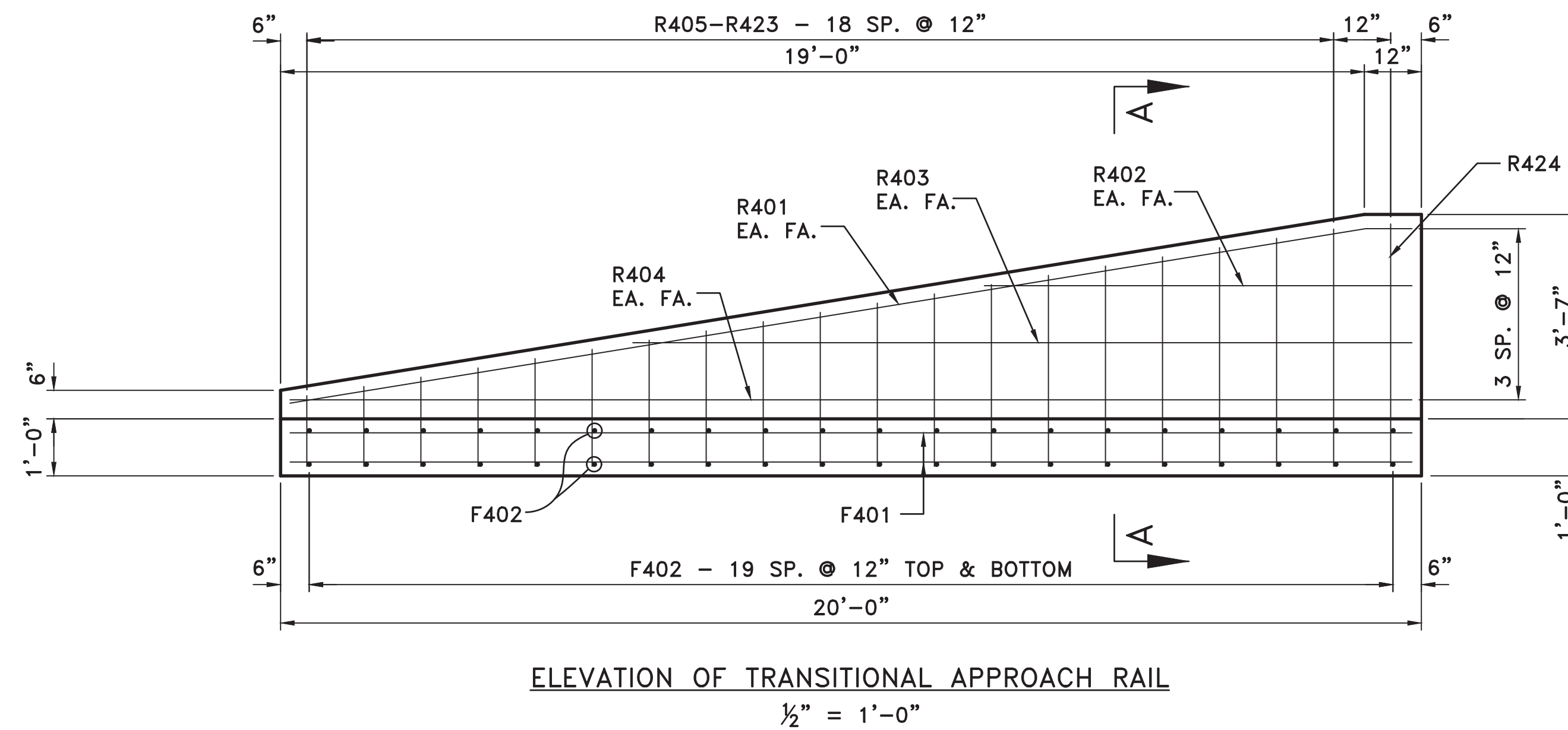
ALL CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH $f'_c = 3,500$ PSI. CONCRETE SHALL BE POURED IN THE DRY AND ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

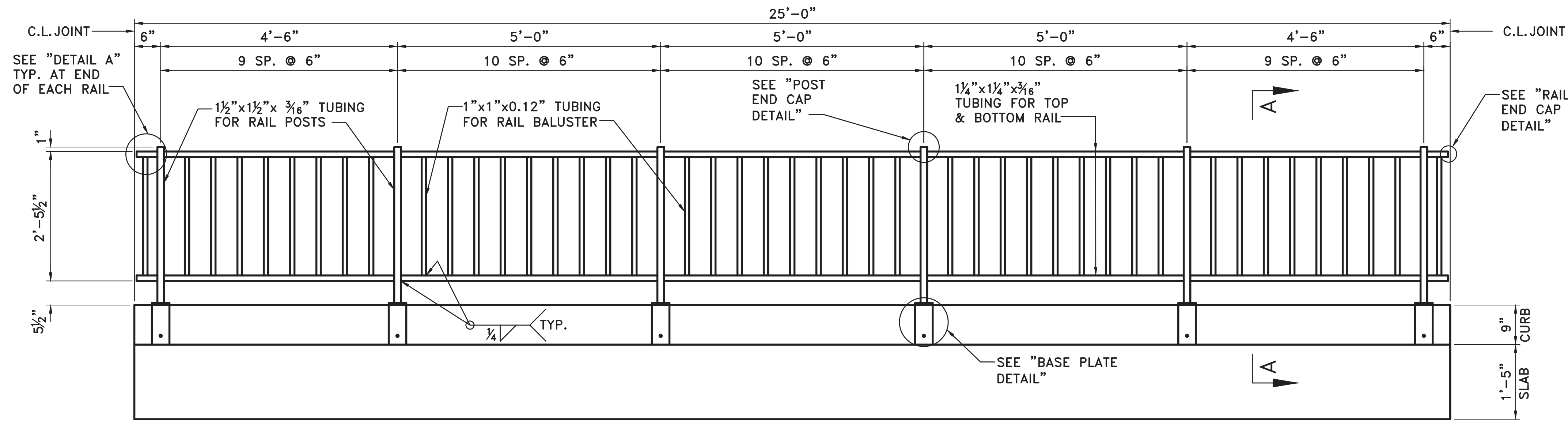
ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 OR M322, GRADE 60 (YIELD STRENGTH = 60,000 PSI.).

CLASS 1 PROTECTIVE SURFACE TREATMENT FOR TRANSITIONAL APPROACH RAILING SHALL BE SUBSIDIARY TO OTHER ITEMS OF WORK.

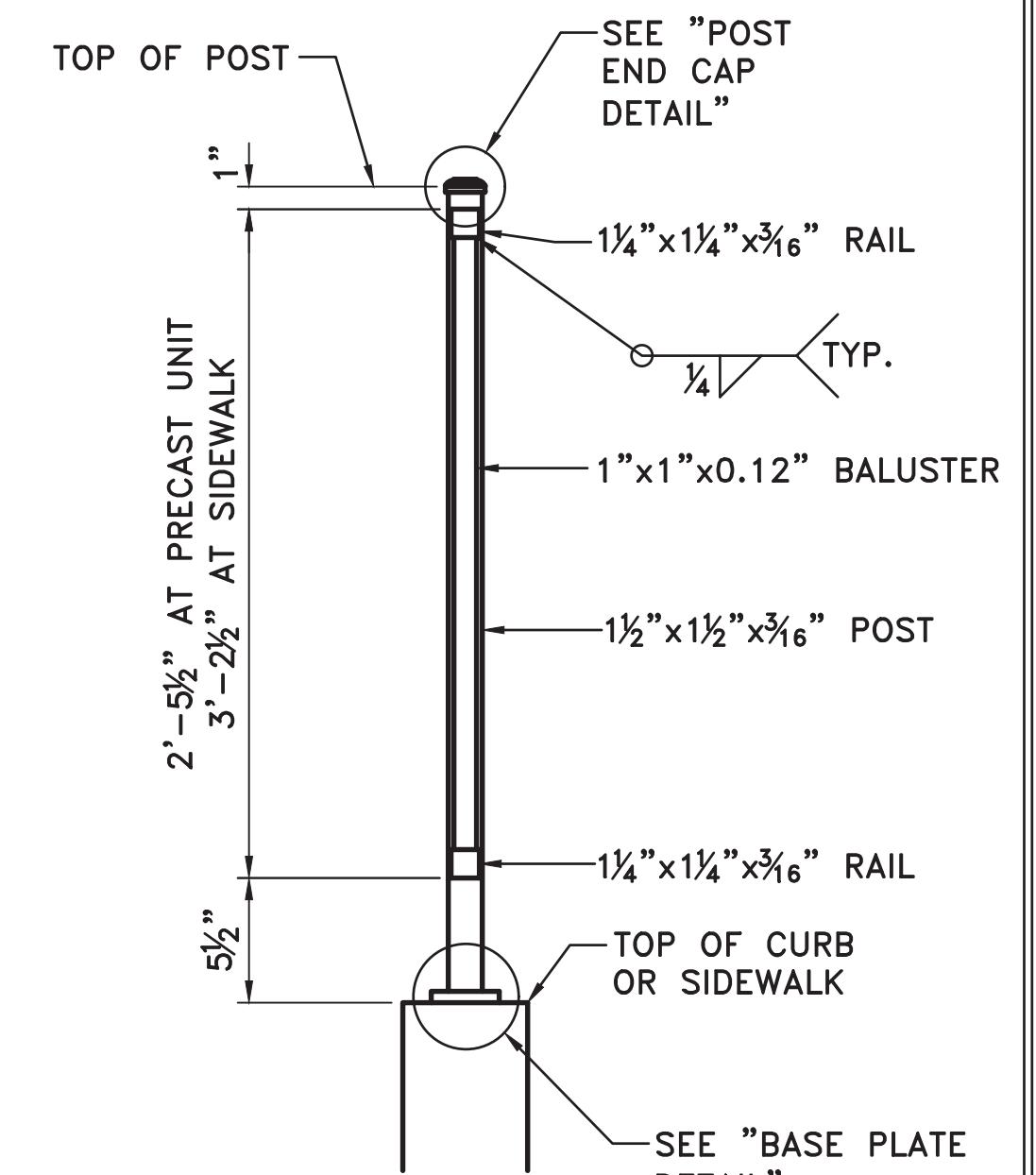
SCHEDULE OF QUANTITIES PER RAIL UNIT

| CLASS "S" CONCRETE | REINFORCING STEEL (GRADE 60) | CLASS 1 PROTECTIVE SURFACE TREATMENT |
|--------------------|------------------------------|--------------------------------------|
| 4.79 CU. YDS. | 385 LBS. | 0.2 GAL |

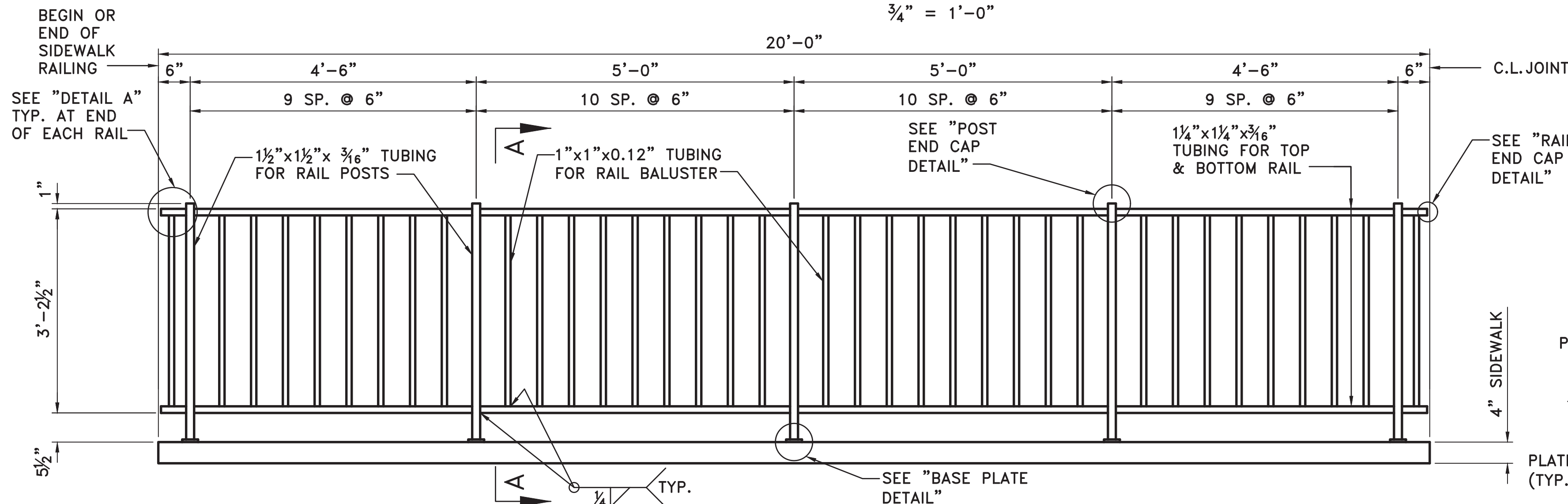




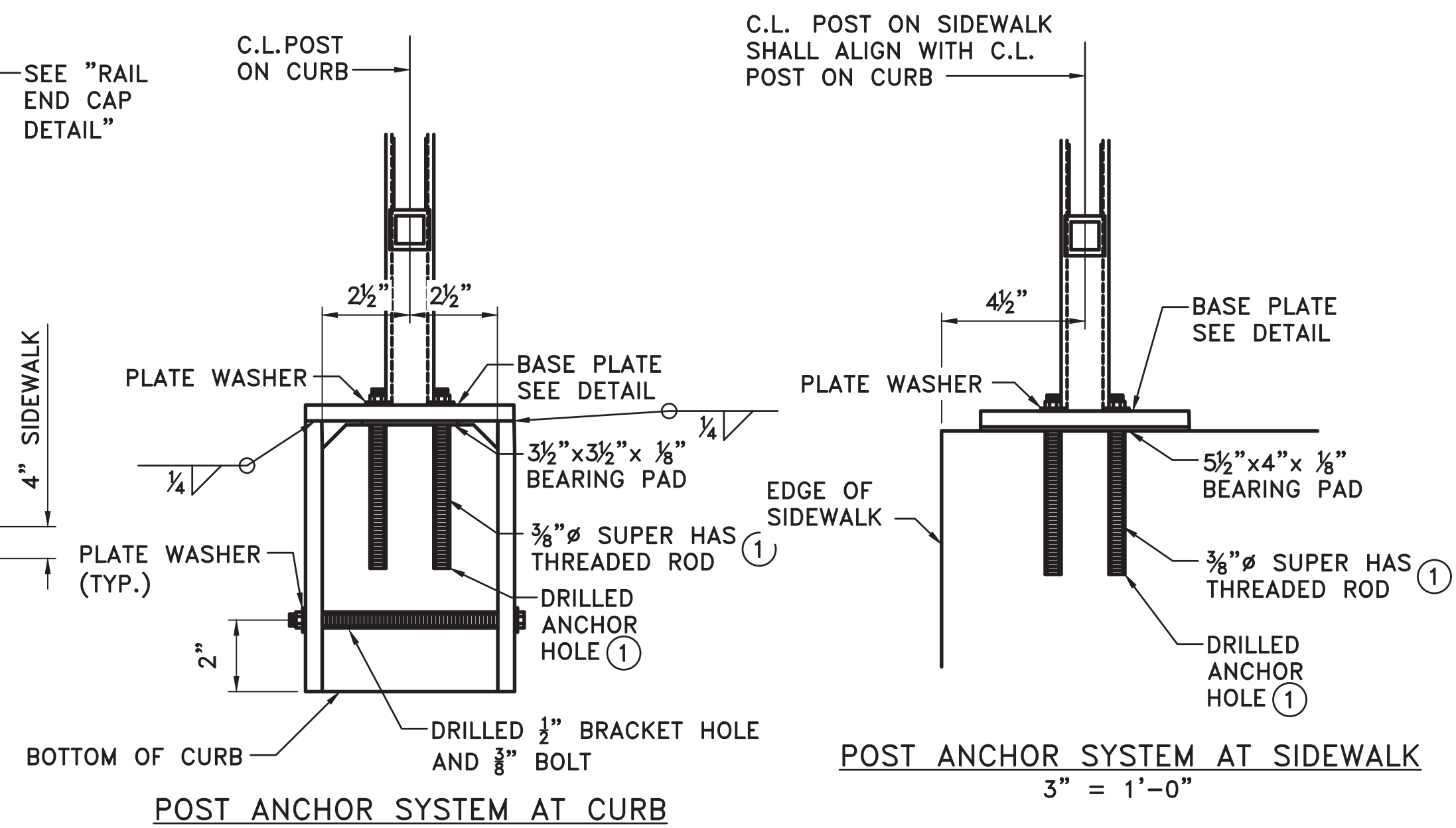
DETAILS OF HANDRAIL ON PRECAST UNIT
3/4" = 1'-0"



SECTION A-A
1 1/2" = 1'-0"



DETAILS OF HANDRAIL ON SIDEWALK
3/4" = 1'-0"



① HILTI HIT RE 500 EPOXY ADHESIVE ANCHOR SYSTEM WITH 4 1/2" EMBEDMENT OR AN APPROVED EQUAL.

THE HILTI EPOXY ADHESIVE ANCHOR SYSTEM (OR APPROVED EQUAL) SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

MATERIALS FOR HANDRAIL
STRUCTURAL TUBING: ASTM A500-GRADE B OR ASTM A709, GR. 36.

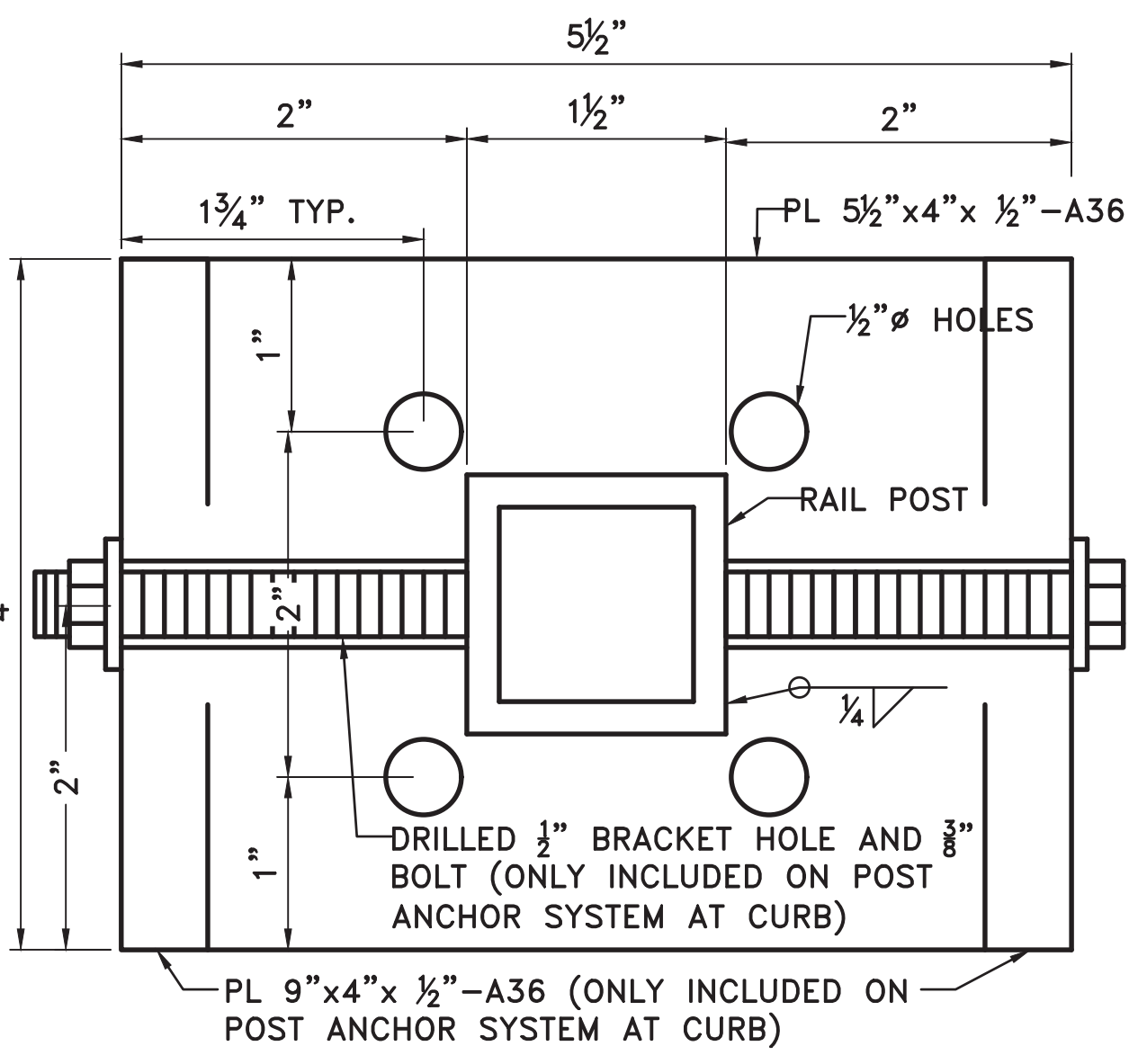
END CAPS AND BASE PLATE: ASTM A709, GR. 36.

THREADED RODS AND BOLTS SHALL BE STAINLESS STEEL OR HIGH STRENGTH STEEL. STAINLESS STEEL THREADED RODS AND BOLTS SHALL CONFORM TO ASTM A193 OR A320-GRADE B8 WITH A MINIMUM YIELD STRENGTH OF 80,000 PSI. HIGH STRENGTH STEEL THREADED RODS AND BOLTS SHALL CONFORM TO AASHTO M164 OR A354-GRADE BC, GALVANIZED IN ACCORDANCE WITH ASTM A153.

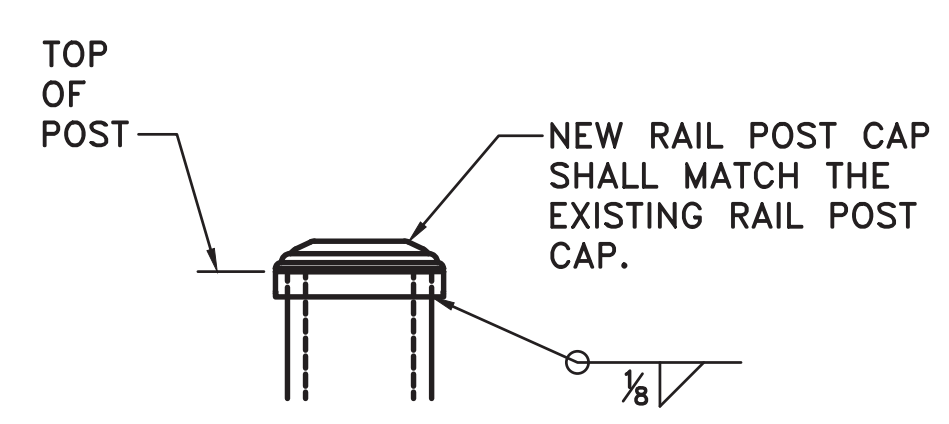
NUTS SHALL CONFORM TO ASTM A194-GRADE 8 (STAINLESS STEEL) OR AASHTO M164 GALVANIZED IN ACCORDANCE WITH AASHTO M232, OR OF STAINLESS STEEL CONFORMING TO ASTM A276 OR A167-TYPE 302.

HANDRAIL, INCLUDING POSTS AND FASTENERS, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT BID FOR "HANDRAIL".

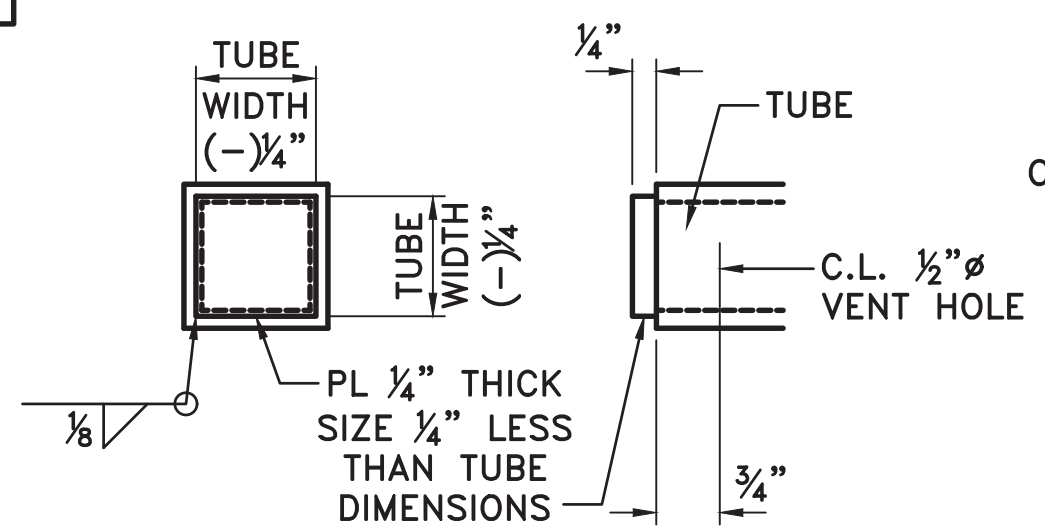
SHOP DRAWINGS SHOWING DETAILS OF RAILING SHALL BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.



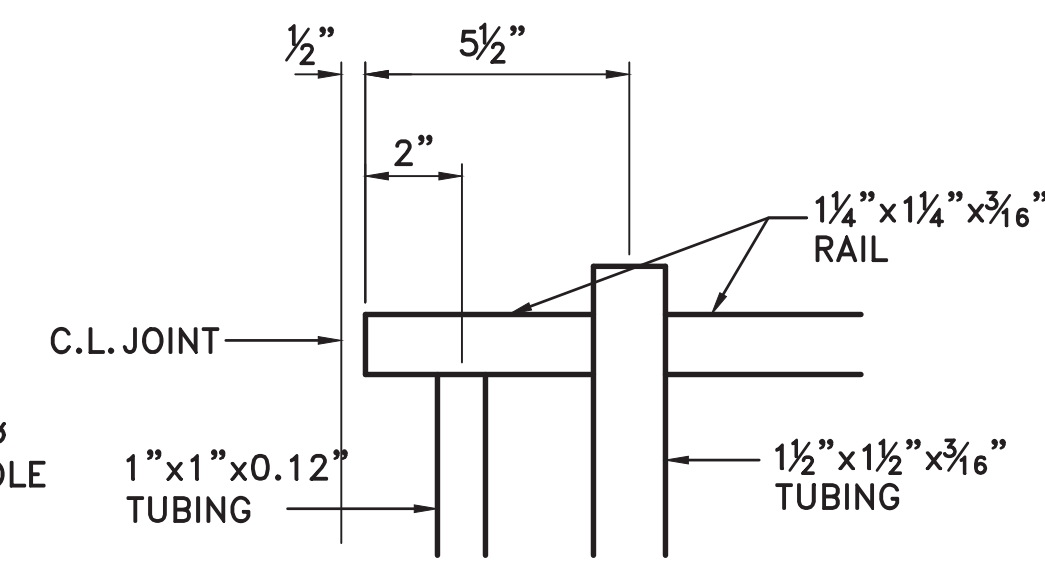
BASE PLATE DETAIL
FULL SCALE



POST END CAP DETAIL
6" = 1'-0"



RAIL END CAP DETAIL
6" = 1'-0"



DETAIL A
3" = 1'-0"
TYP. AT THE END OF EACH RAIL AS SHOWN.

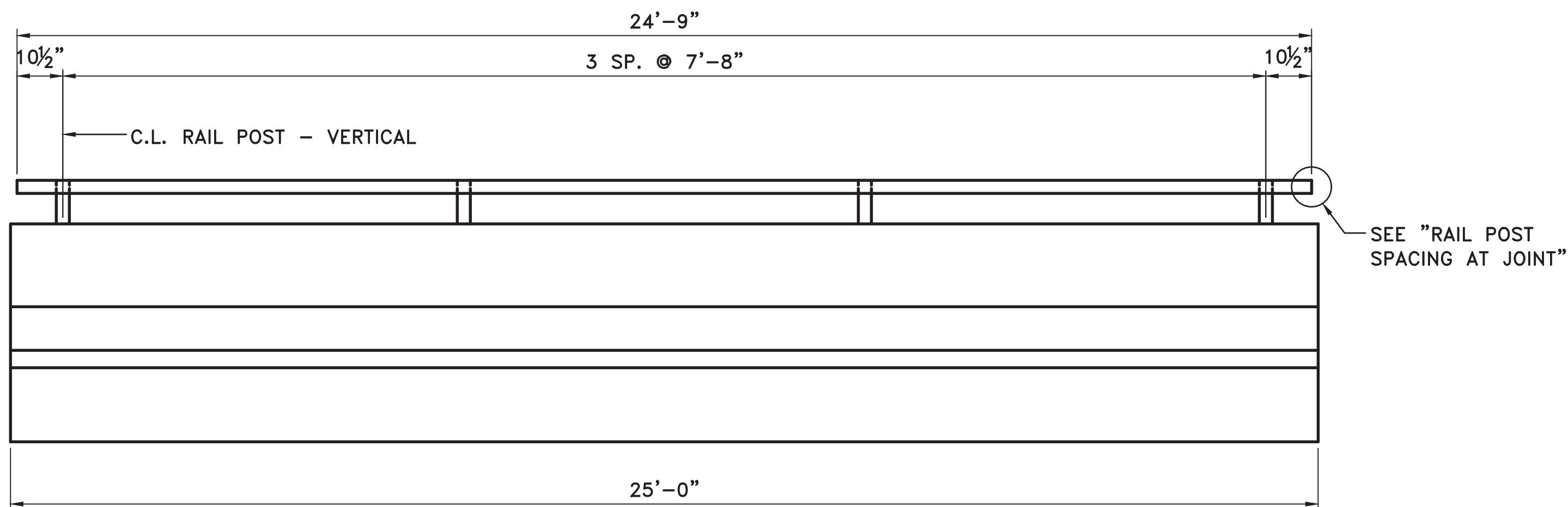
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD RECONSTRUCTION
HANDRAIL DETAILS

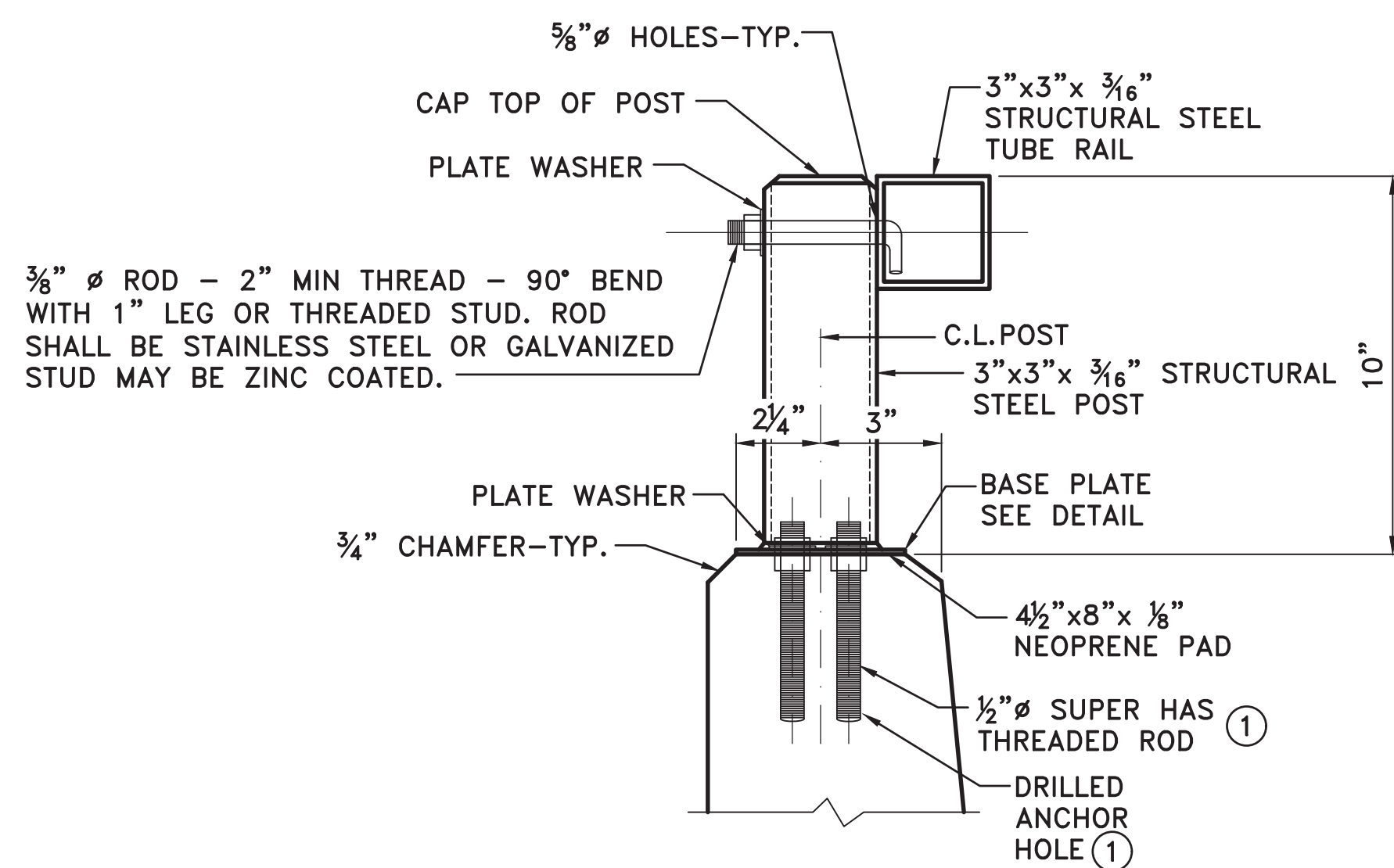
DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18018
JUSTIN P. CARNEY
2/3/2020

DRAWN BY
KDH
DESIGNED
JPC
CHECKED
SFH
DATE
10-2019
SCALE
AS NOTED
PROJECT NO.
CLR #7-17-ST-357
SHEET NO.
S12



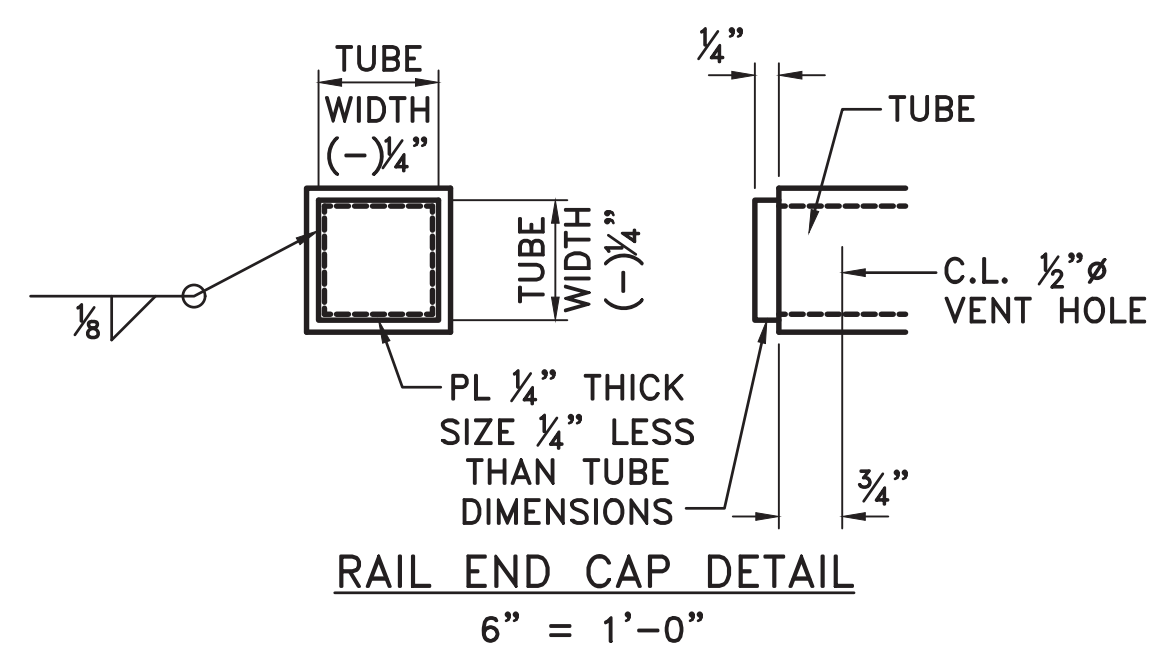
RAIL POST SPACING DETAIL
HORIZONTAL DIMENSIONS ARE ALONG FACE OF RAIL
1/2" = 1'-0"



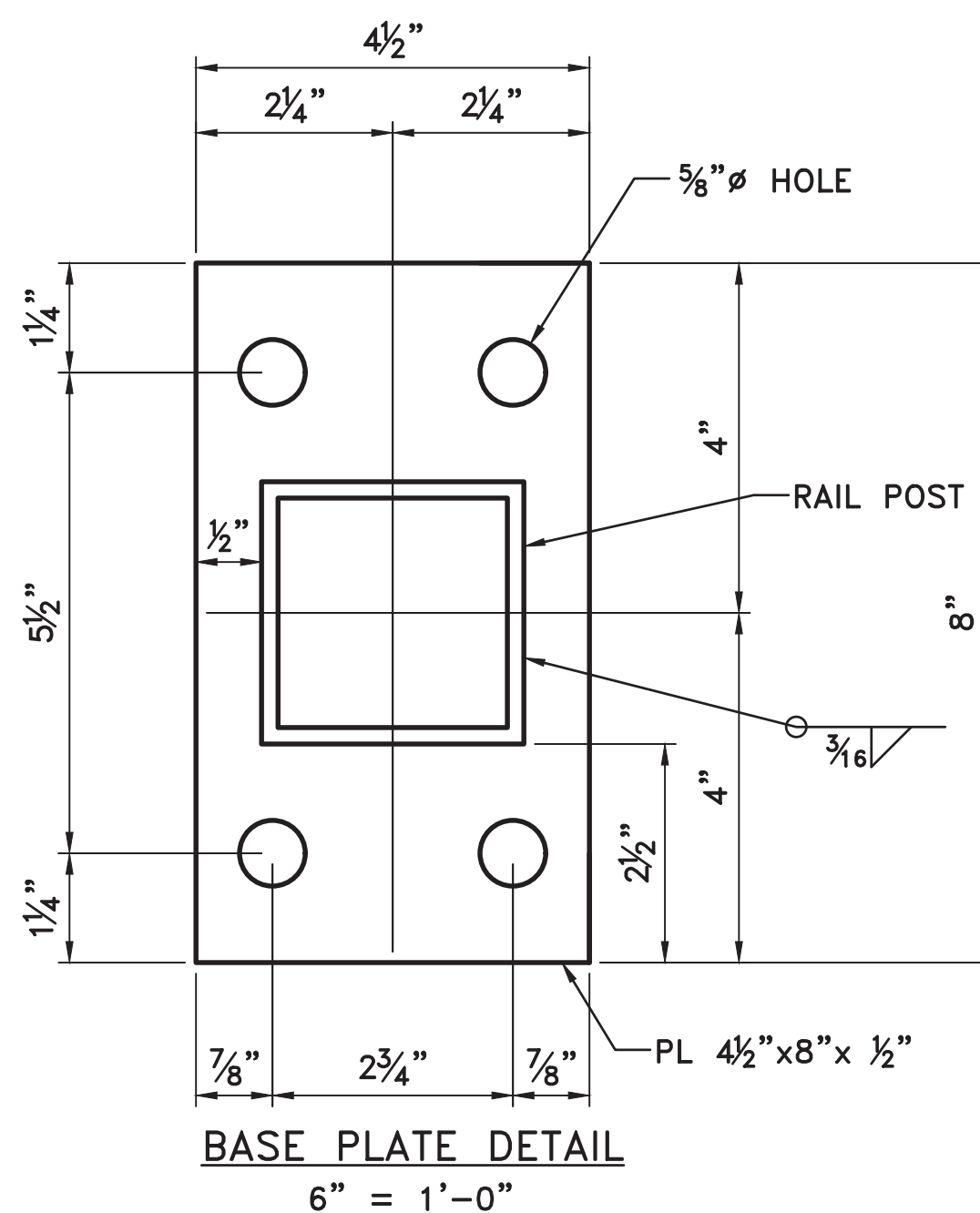
DETAILS OF POST ANCHOR SYSTEM
3" = 1'-0"

① HILTI HIT RE 500 EPOXY ADHESIVE ANCHOR SYSTEM WITH 4 1/2" EMBEDMENT OR AN APPROVED EQUAL.

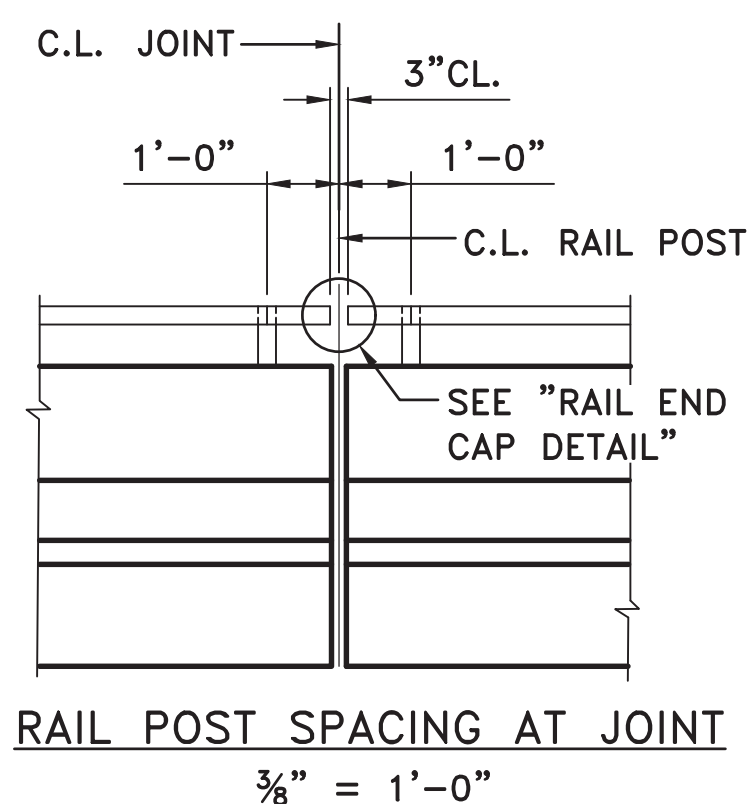
THE HILTI EPOXY ADHESIVE ANCHOR SYSTEM (OR APPROVED EQUAL) SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



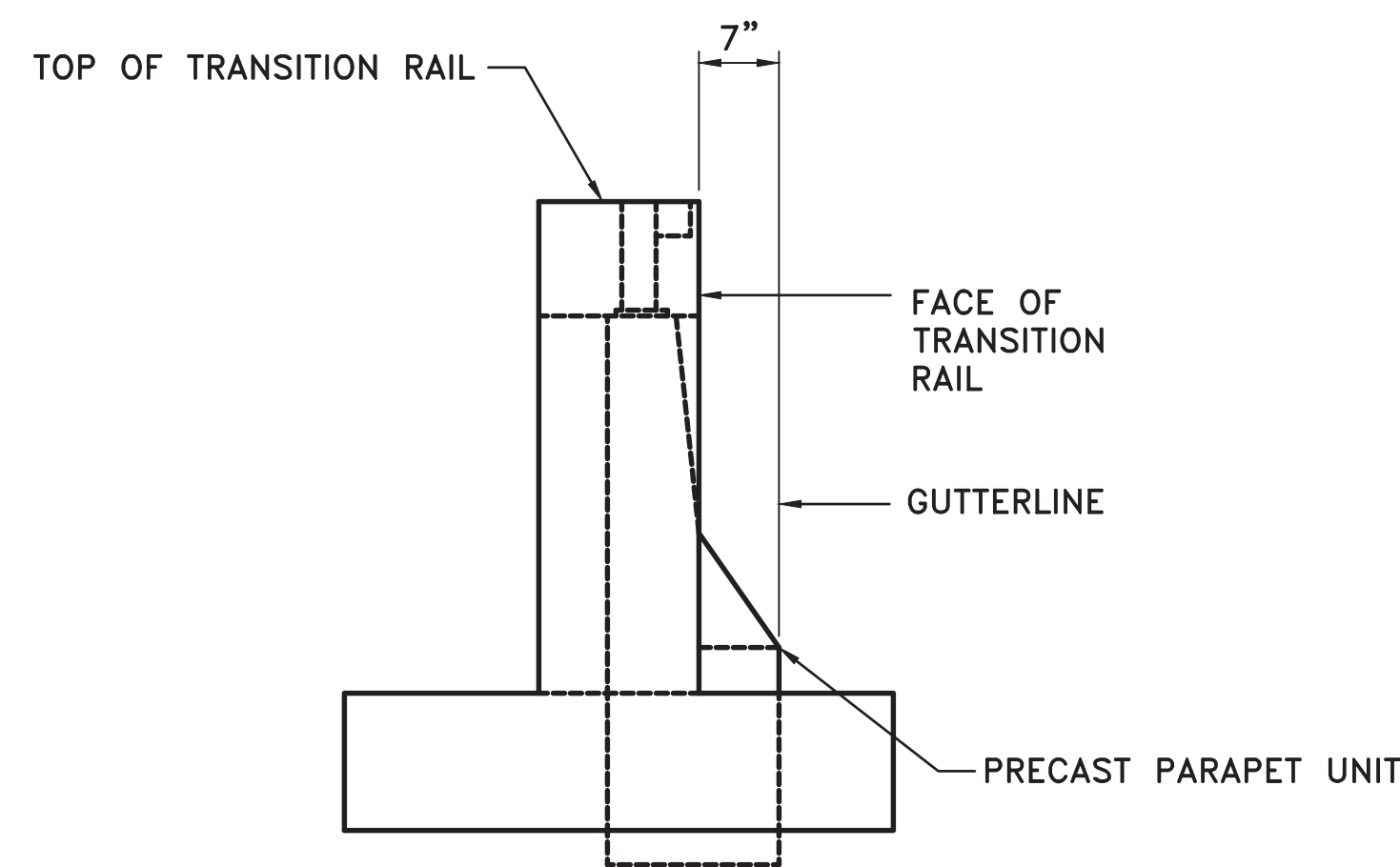
RAIL END CAP DETAIL
6" = 1'-0"



BASE PLATE DETAIL
6" = 1'-0"



RAIL POST SPACING AT JOINT
3/8" = 1'-0"



SKETCH SHOWING ALIGNMENT OF TRANSITION RAIL TO PARAPET UNIT
3/4" = 1'-0"

NOTES FOR BRIDGE RAILING:

RAIL LAYOUT SHALL CONFORM TO VERTICAL AND HORIZONTAL ALIGNMENT OF BRIDGE. ALL POSTS SHALL BE VERTICAL.

BASE PLATES SHALL NOT BE PLACED UPON AREAS THAT ARE IMPROPERLY FINISHED, DEFORMED OR IRREGULAR.

SHOP DRAWINGS SHOWING DETAILS OF RAILING SHALL BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.

MATERIALS FOR BRIDGE RAILING:

TUBING, POSTS, AND ACCESSORIES: ASTM A709, GR. 36 OR ASTM A500-GRADE B.

RAILING END CAPS SHALL CONFORM TO ASTM A709, GRADE 36.

PAINTING: ALL STRUCTURAL STEEL, EXCEPT GALVANIZED MEMBERS AND SURFACES IN CONTACT WITH CONCRETE, SHALL BE CLEANED IN ACCORDANCE WITH SUBSECTION 807.84(B) AND PAINTED AS SPECIFIED IN SUBSECTION 807.75. THE COLOR OF THE TYPE H-2 METAL RAIL SHALL BE BLACK AND SHALL MATCH FED. STD. 595B COLOR CHIP NO. 27038.

HIGH-STRENGTH STEEL:

NUTS SHALL CONFORM TO ASTM A563, GRADE DH OR AASHTO M 292, GRADE 2H.

WASHERS SHALL CONFORM TO ASTM F436.

PLATE WASHERS SHALL CONFORM TO ASTM A709, GR. 36.

NUTS, WASHERS, PLATE WASHERS, AND SET SCREWS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 232, CLASS C OR ASTM B695, CLASS 50.

STAINLESS STEEL:

NUTS SHALL CONFORM TO AASHTO M 292, GRADE 8 OR ASTM A563.

WASHERS SHALL CONFORM TO ASTM A240, TYPE 302.

PLATE WASHERS SHALL CONFORM TO ASTM A240, TYPE 302.

THREADS ON BOLTS, SCREWS AND NUTS SHALL CONFORM TO AMERICAN STANDARD COARSE SERIES, CLASS 2 FIT. ASA SPECIFICATION B1.1.

MIXING OF STAINLESS STEEL AND GALVANIZED FASTENERS WILL NOT BE PERMITTED.

METAL BRIDGE RAILING, INCLUDING POSTS, FASTENERS, BASE PLATES, TEMPLATE PLATES, BALUSTERS, ANCHOR BOLTS, NEOPRENE PAD, PAINT, AND REPAIR OF PAINT; FABRICATION AND ERECTION; AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 806 AT THE CONTRACT UNIT PRICE PER LINEAR FOOT BID FOR "METAL BRIDGE RAILING (TYPE H)".

| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD RECONSTRUCTION
TYPE H RAIL DETAILS

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18018
JUSTIN P. CARNEY
2/3/2020

DRAWN BY
KDH
DESIGNED
JPC
CHECKED
SFH
DATE
10-2019
SCALE
AS NOTED
PROJECT NO.
CLR #7-17-ST-357
SHEET NO.
S13

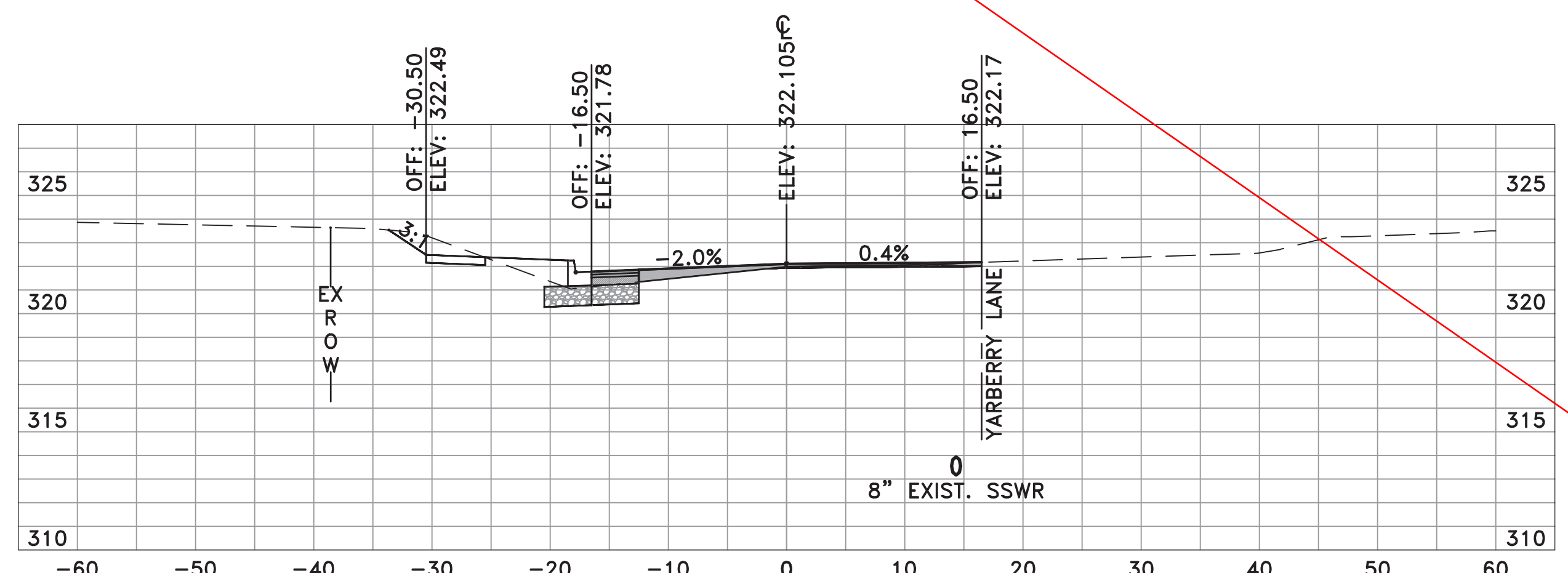
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
 CHICOT ROAD IMPROVEMENTS
 CROSS SECTIONS (1)

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201

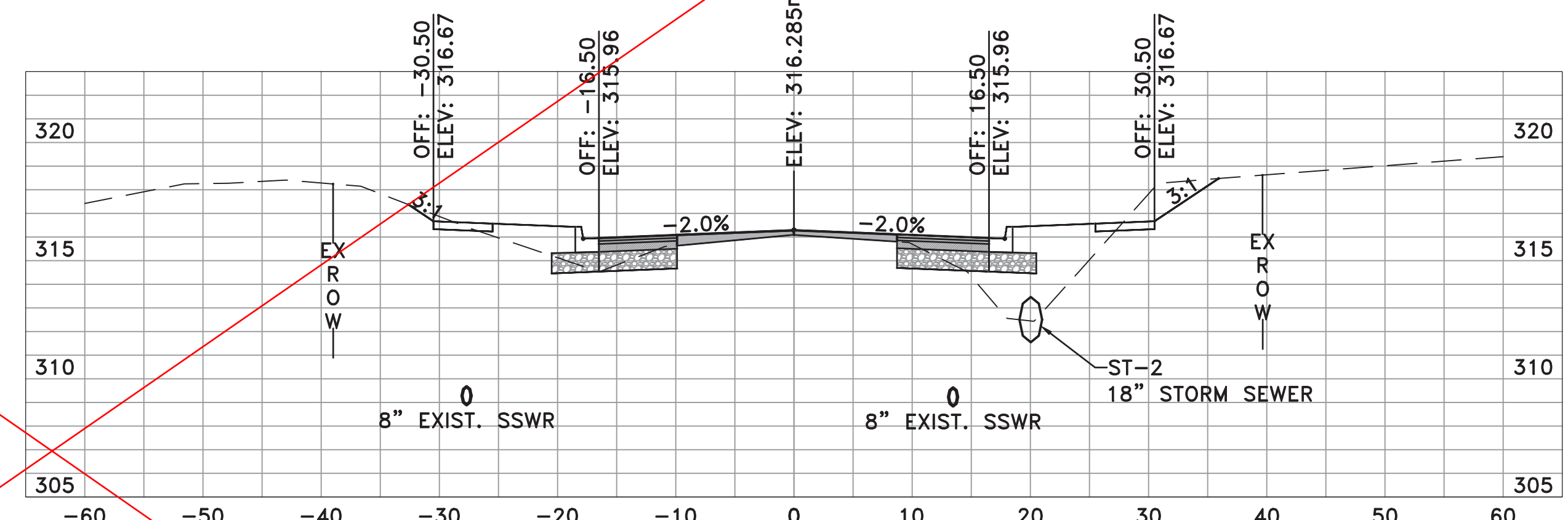


DRAWN BY
 KLL
 DESIGNED
 COF
 CHECKED
 BOL
 DATE
 1-28-2020
 SCALE
 H: 1"=10'
 V: 1"=5'
 PROJECT NO.
 CLR 07-17-ST-357
 SHEET NO.
 X1



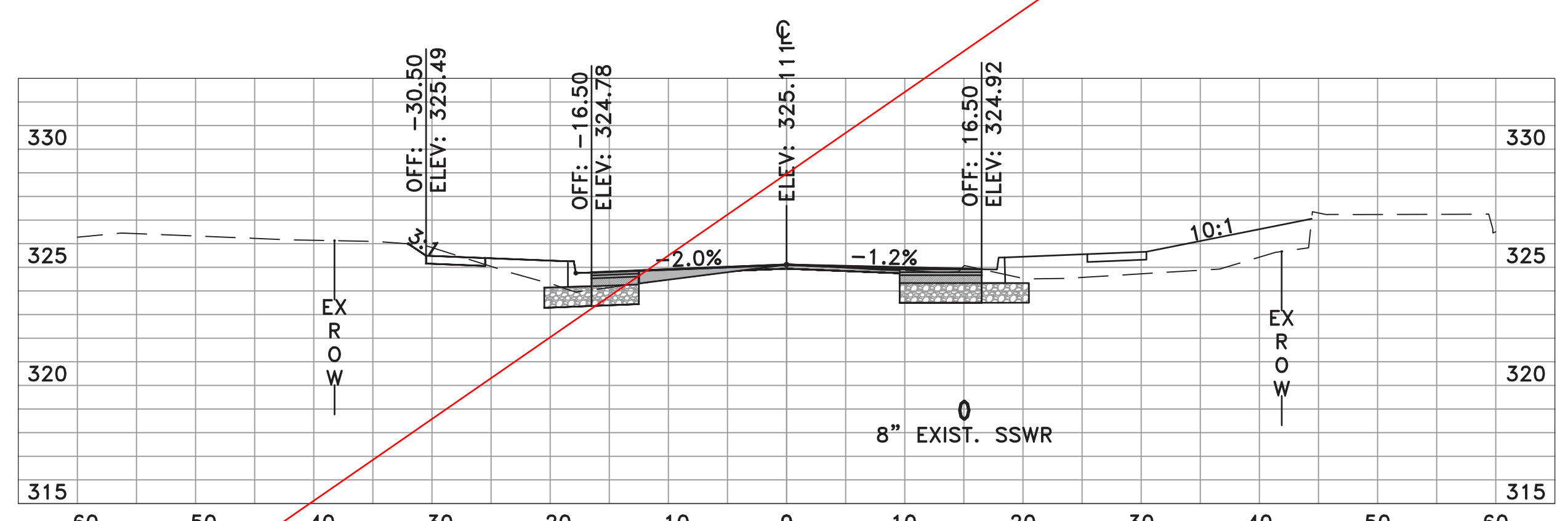
CHICOT RD
 5+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 13.25 | 30.68 | 30.68 |
| FILL | 4.01 | 8.04 | 8.04 |



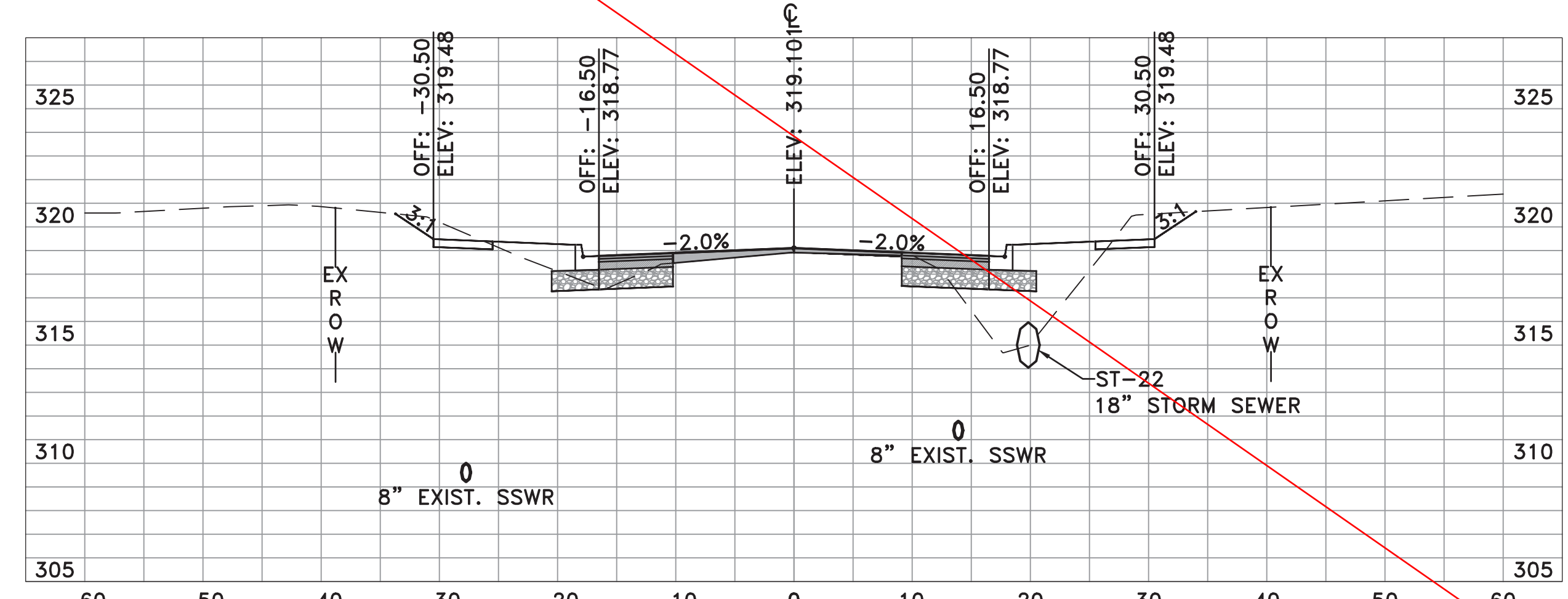
CHICOT RD
 6+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 17.45 | 34.97 | 96.75 |
| FILL | 28.89 | 53.68 | 92.36 |



CHICOT RD
 5+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 19.88 | 0.00 | 0.00 |
| FILL | 4.66 | 0.00 | 0.00 |



CHICOT RD
 6+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 20.32 | 31.09 | 61.77 |
| FILL | 29.08 | 30.64 | 38.68 |

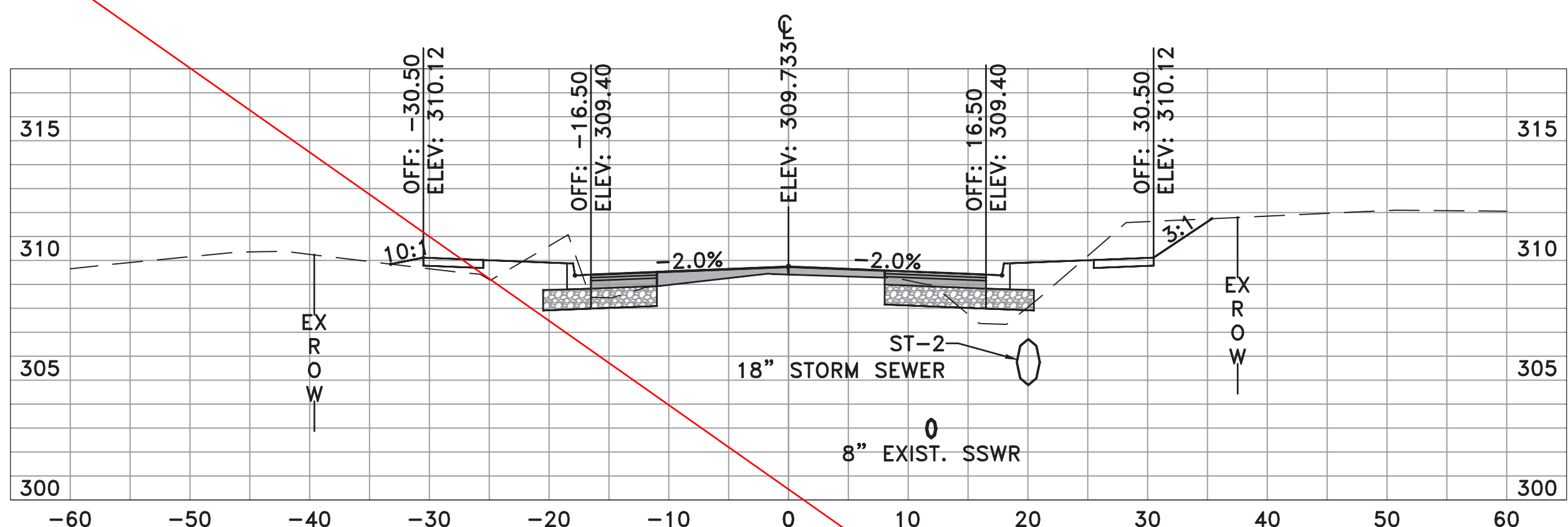
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
 CHICOT ROAD IMPROVEMENTS
 CROSS SECTIONS (2)

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201

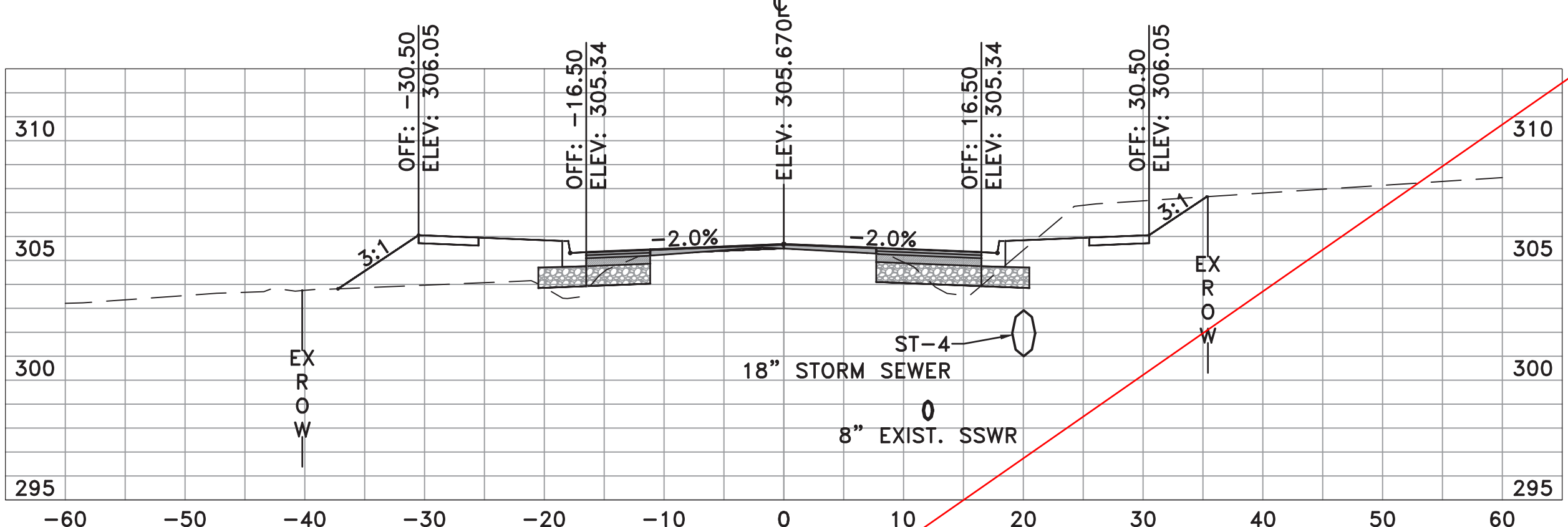


DRAWN BY
 KLL
 DESIGNED
 COF
 CHECKED
 BOL
 DATE
 1-28-2020
 SCALE
 H: 1"=10'
 V: 1"=5'
 PROJECT NO.
 CLR 07-17-ST-357
 SHEET NO.
 X2



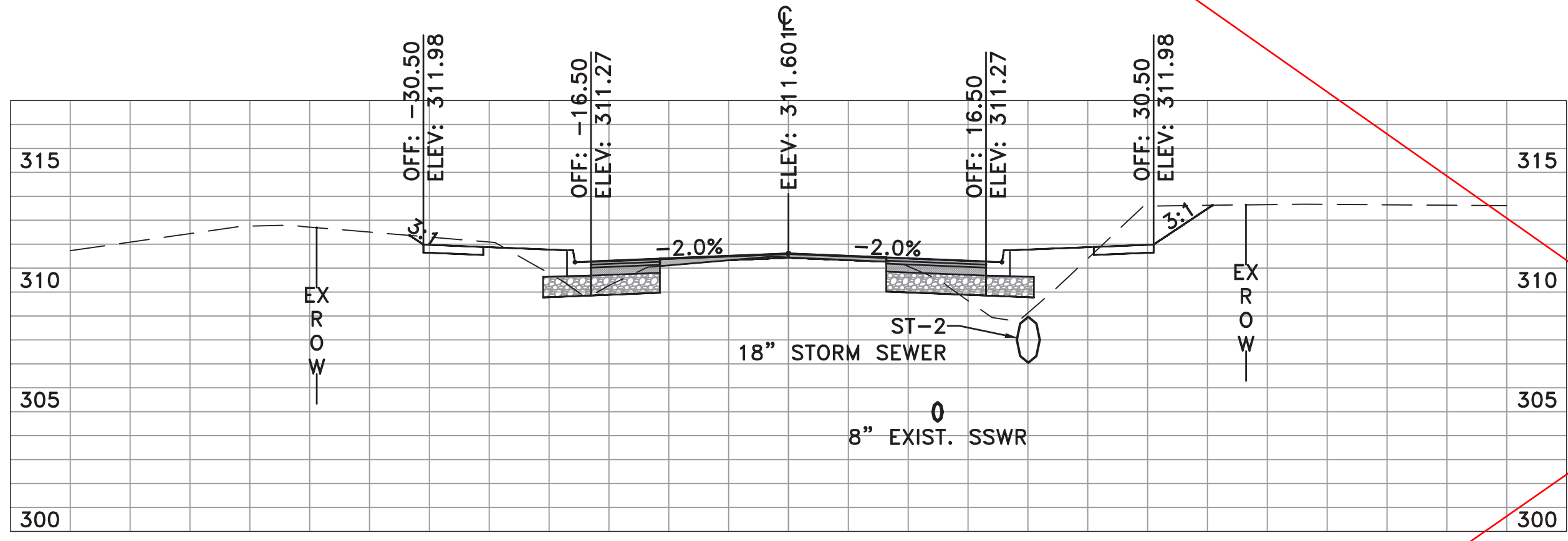
CHICOT RD
 8+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 29.87 | 50.23 | 230.82 |
| FILL | 12.70 | 23.77 | 192.79 |



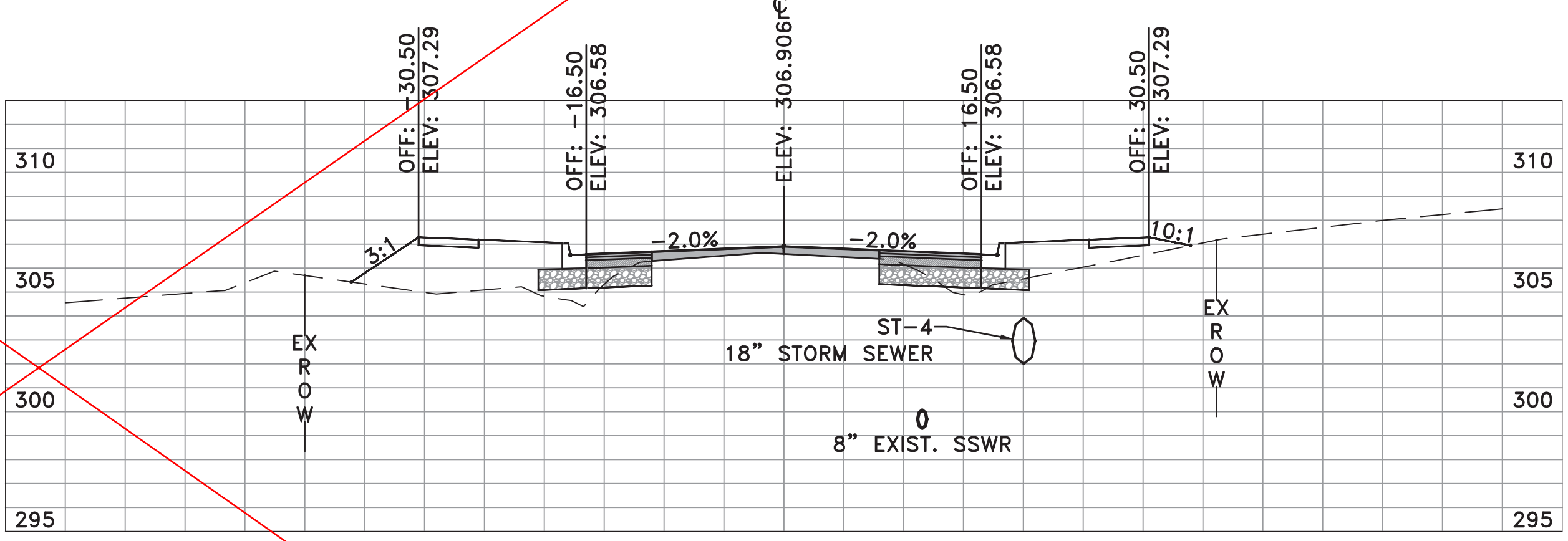
CHICOT RD
 9+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 27.71 | 32.75 | 341.35 |
| FILL | 27.27 | 64.43 | 345.61 |



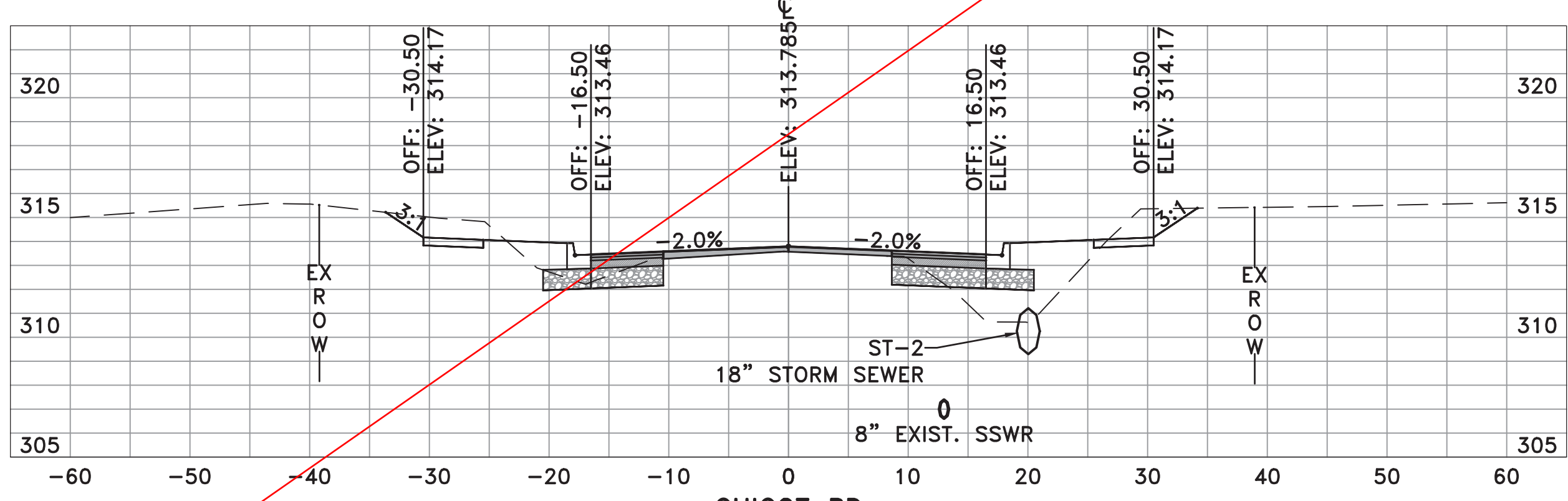
CHICOT RD
 7+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 24.38 | 45.13 | 180.59 |
| FILL | 12.97 | 30.96 | 169.02 |



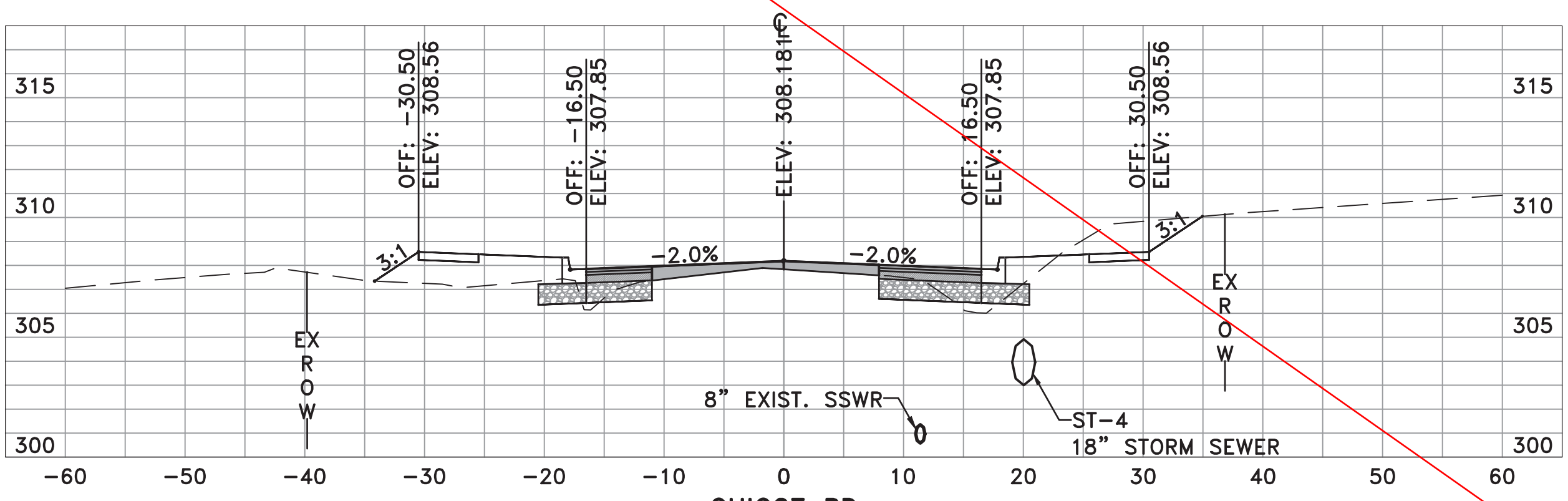
CHICOT RD
 9+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 7.66 | 28.61 | 308.60 |
| FILL | 42.32 | 57.91 | 281.18 |



CHICOT RD
 7+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 24.36 | 38.71 | 135.46 |
| FILL | 20.47 | 45.70 | 138.06 |



CHICOT RD
 8+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 23.24 | 49.17 | 279.99 |
| FILL | 20.22 | 30.48 | 223.27 |

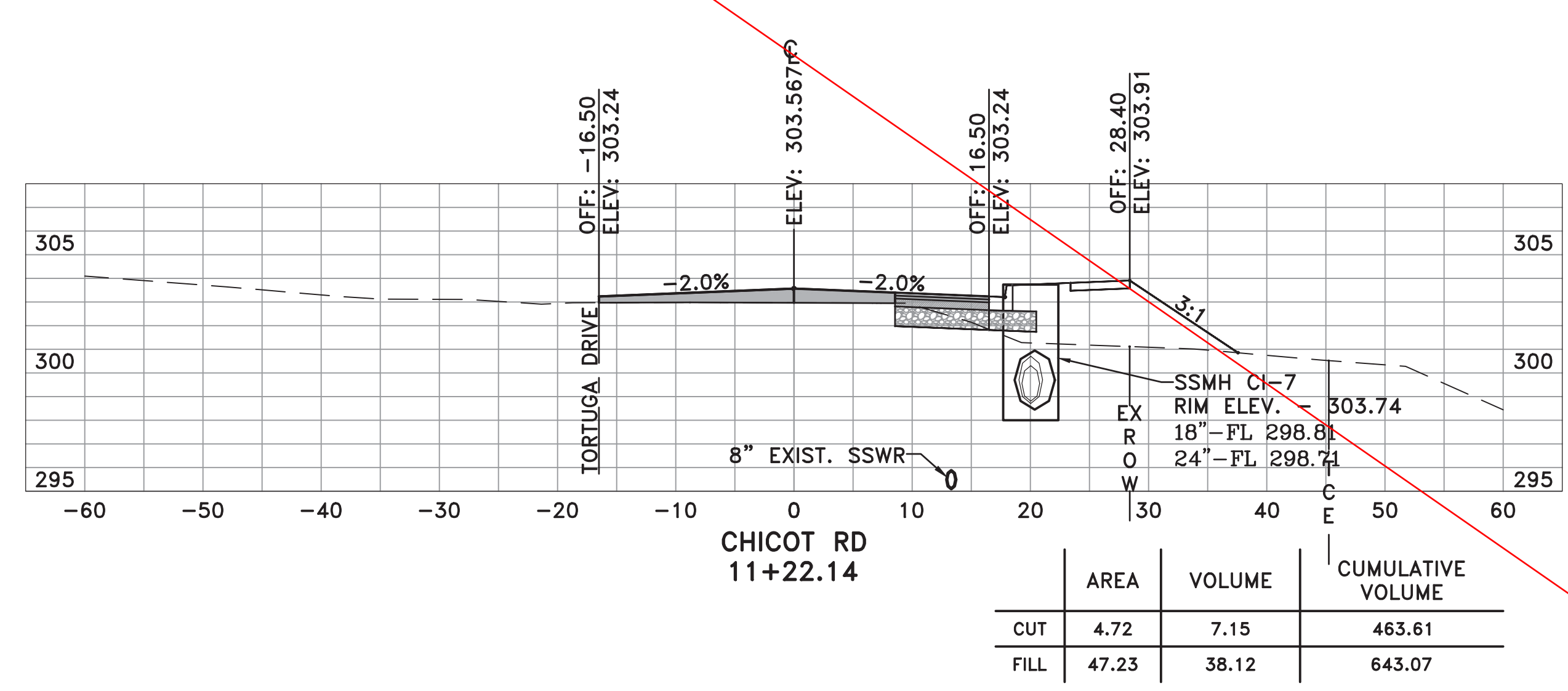
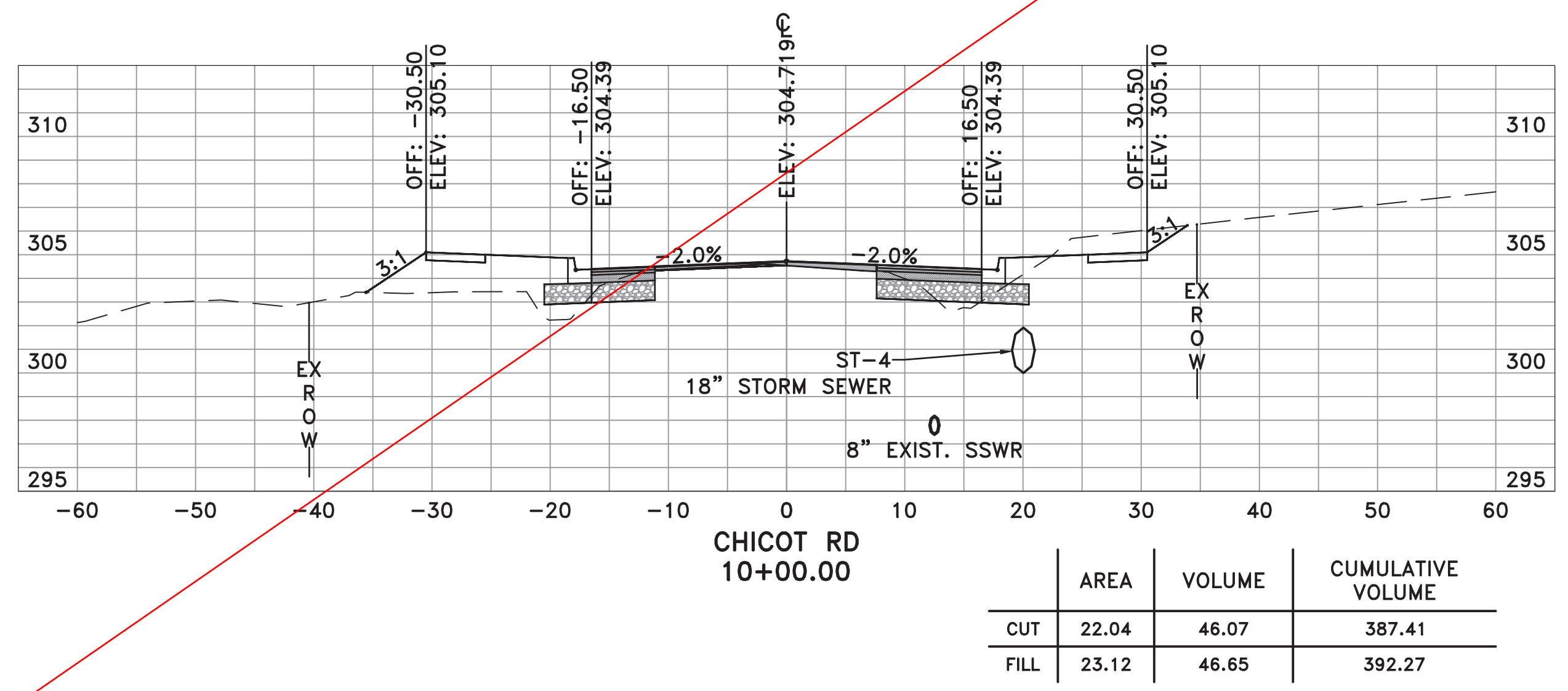
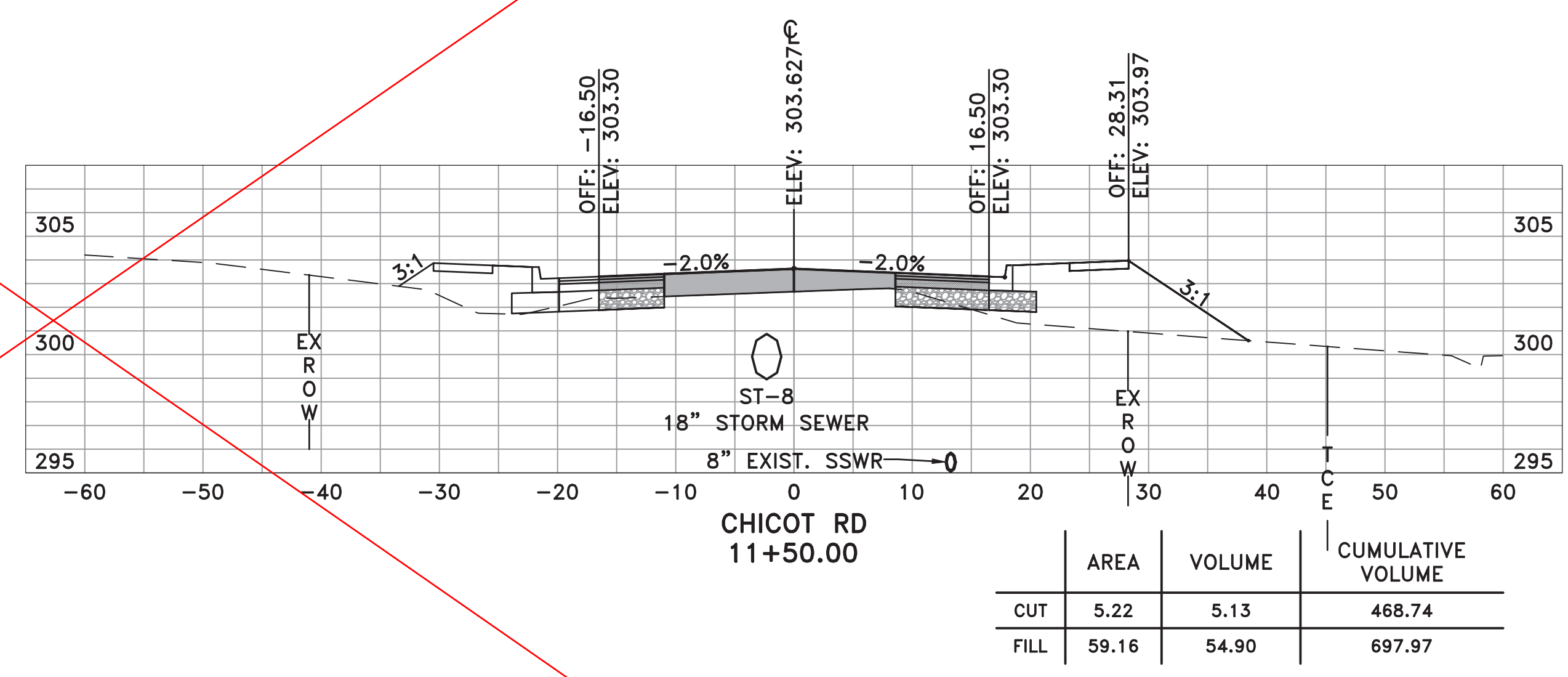
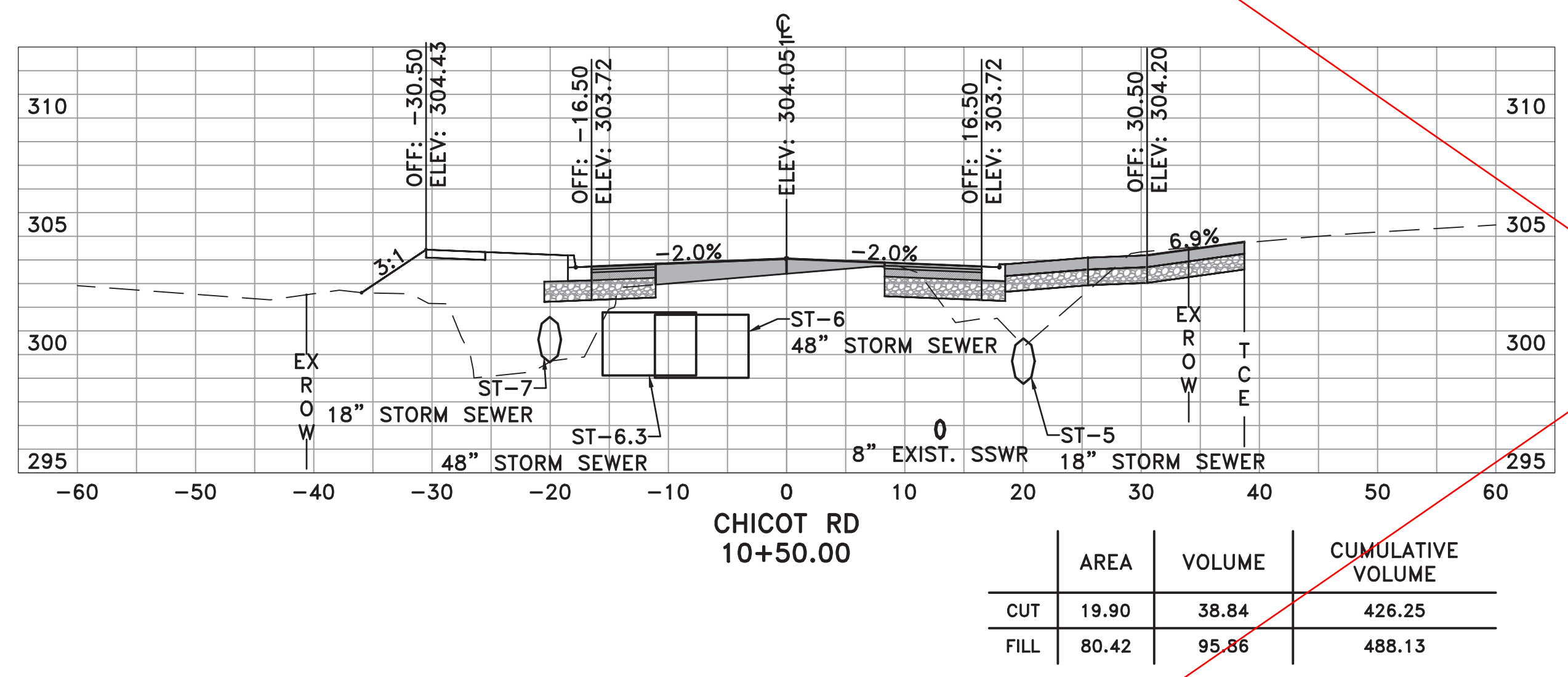
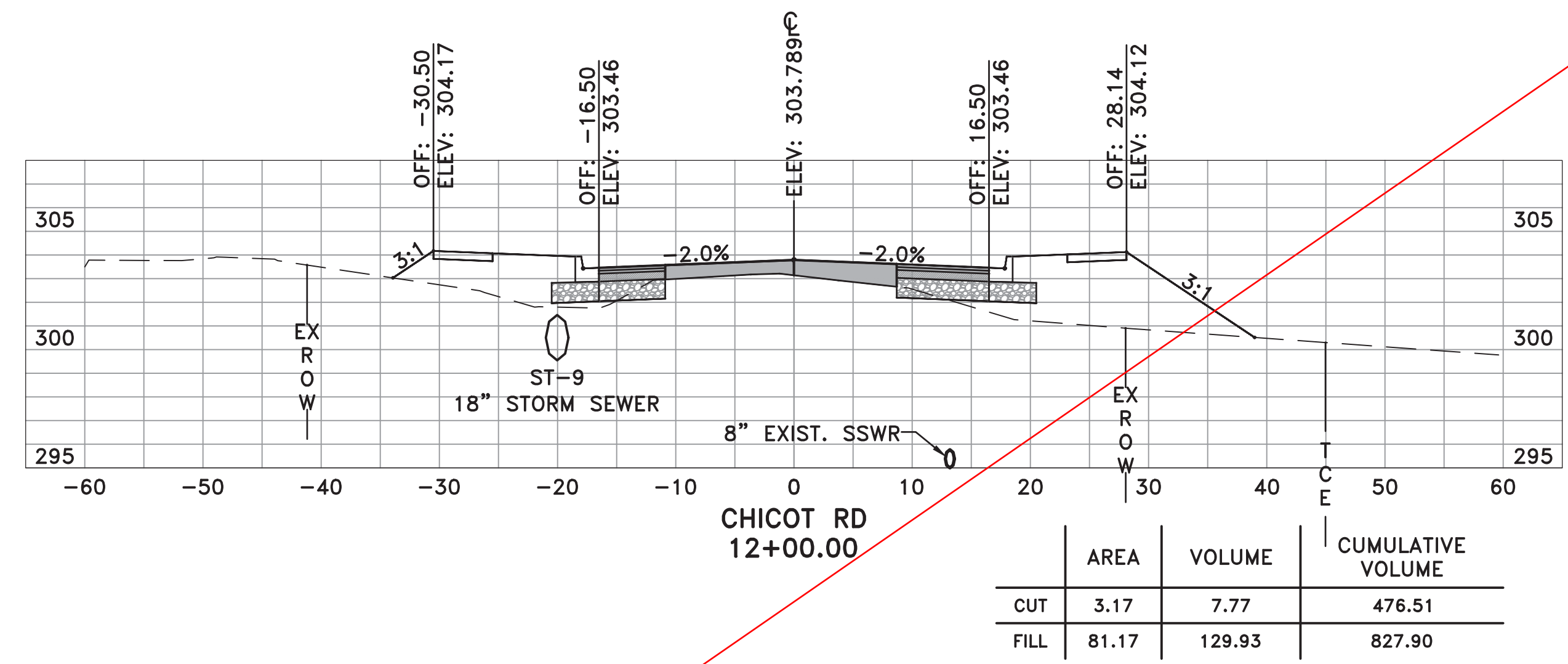
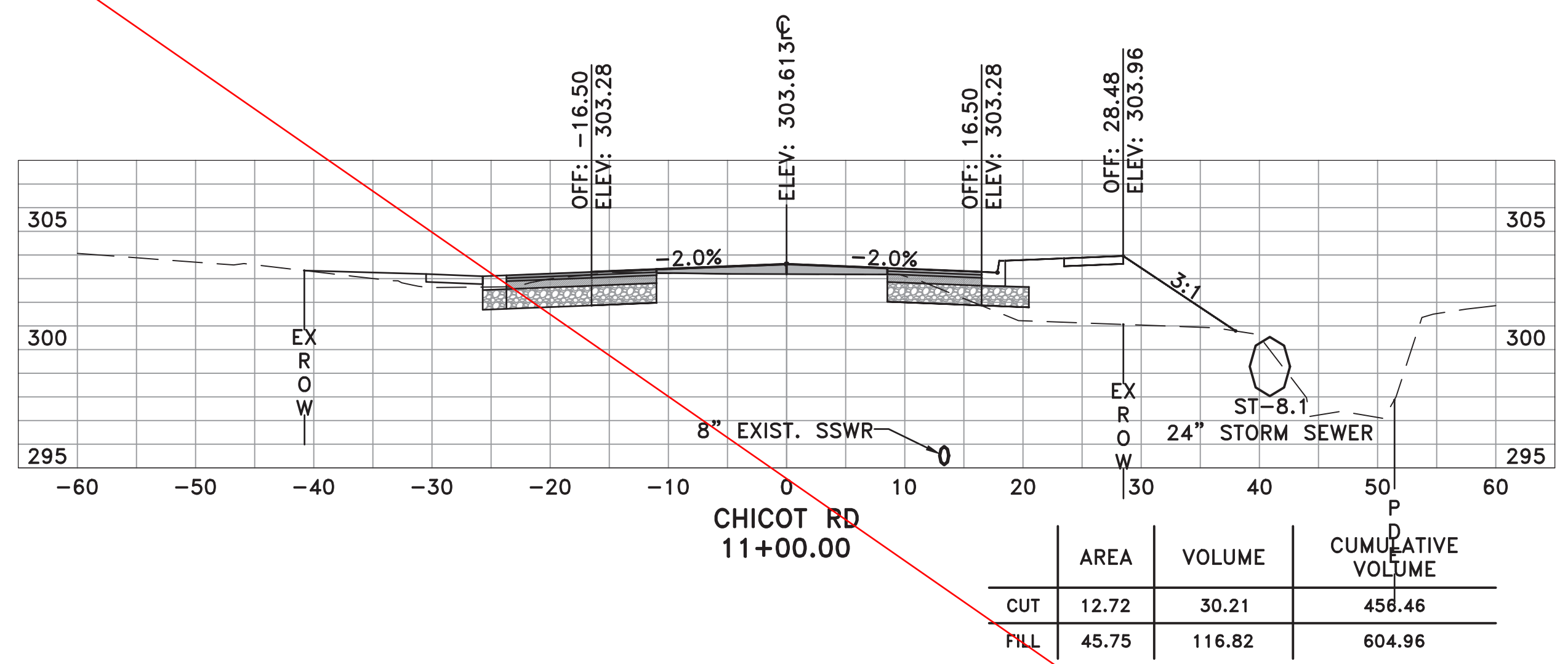
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (3)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X3



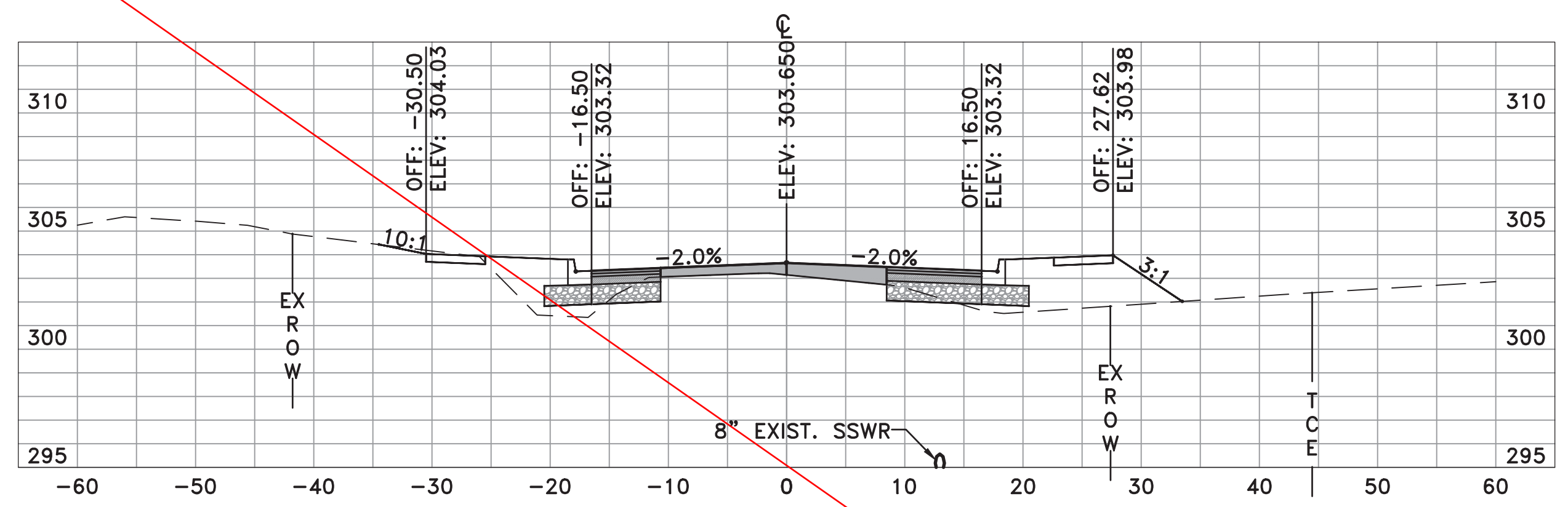
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (4)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

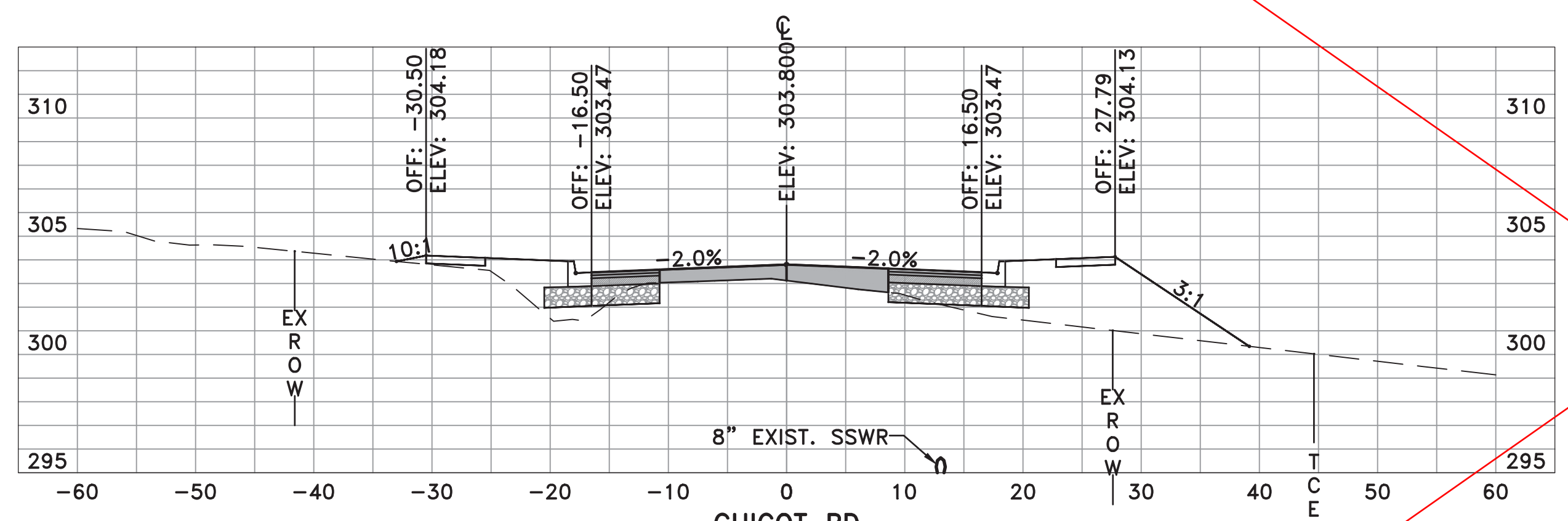


DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X4



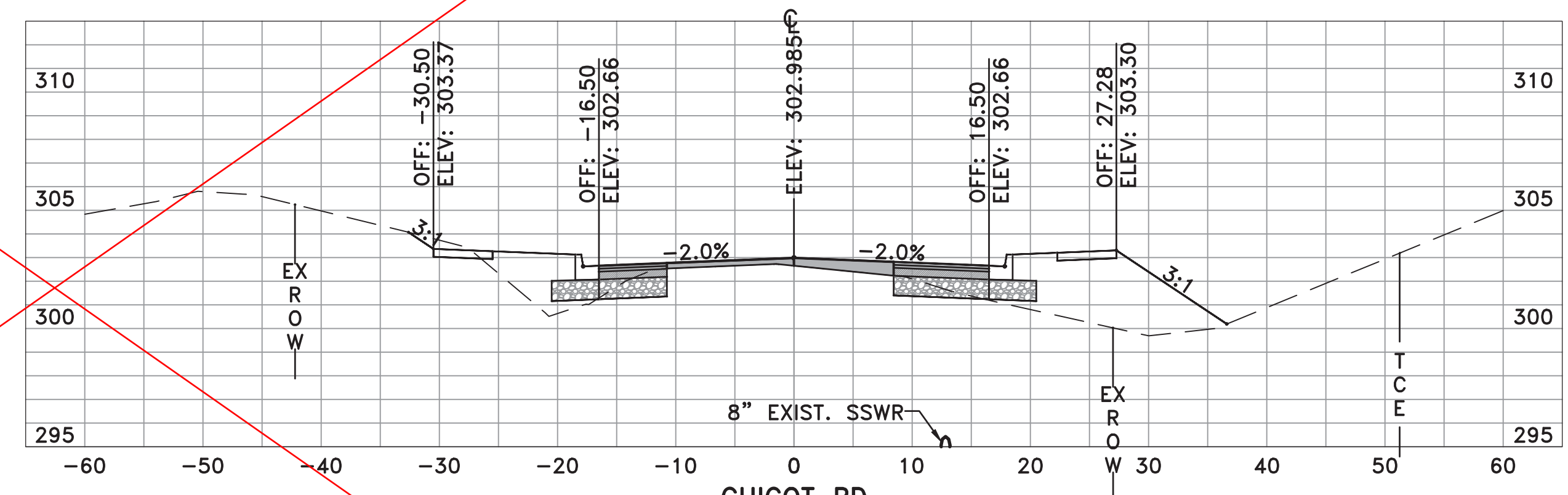
CHICOT RD
13+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 7.60 | 10.54 | 499.14 |
| FILL | 43.47 | 105.55 | 1225.63 |



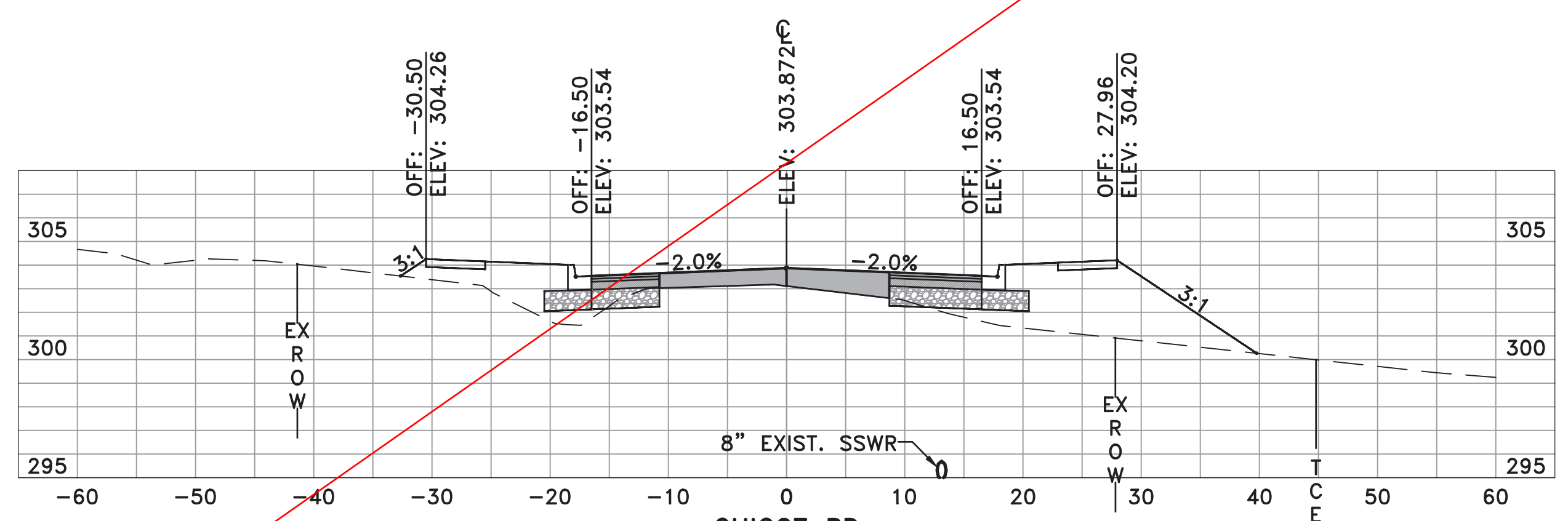
CHICOT RD
13+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 3.78 | 6.33 | 488.60 |
| FILL | 70.52 | 141.16 | 1120.09 |



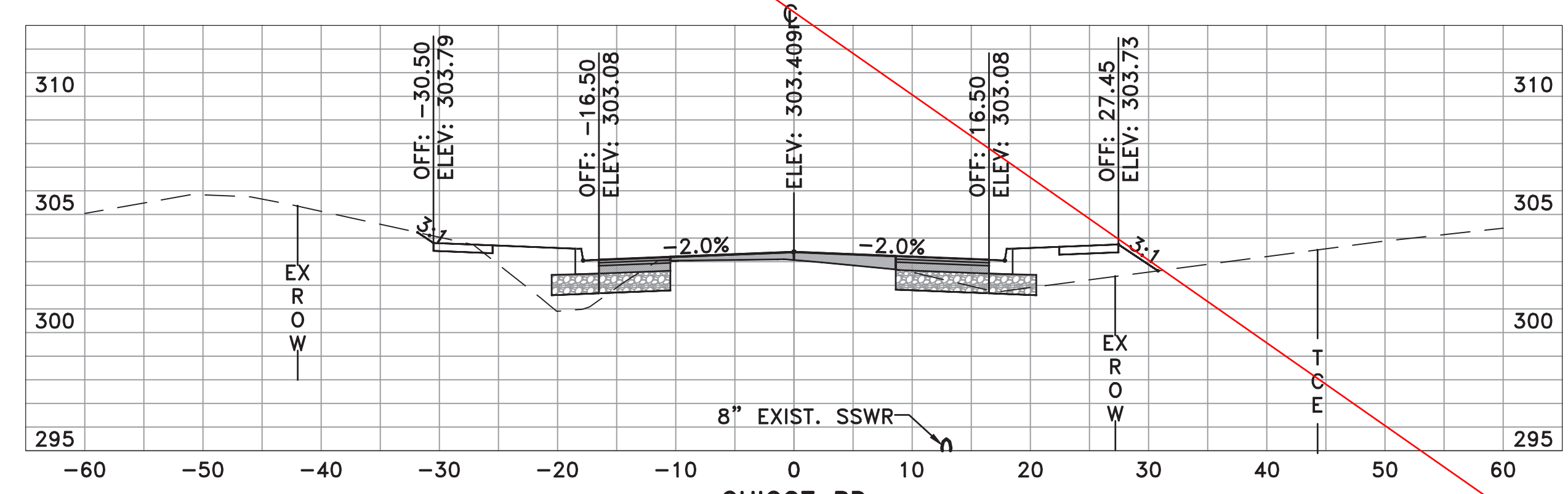
CHICOT RD
14+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 10.38 | 19.65 | 535.86 |
| FILL | 59.48 | 80.90 | 1372.62 |



CHICOT RD
12+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 3.05 | 5.77 | 482.27 |
| FILL | 81.94 | 151.02 | 978.93 |



CHICOT RD
14+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 10.84 | 17.07 | 516.22 |
| FILL | 27.90 | 66.08 | 1291.72 |

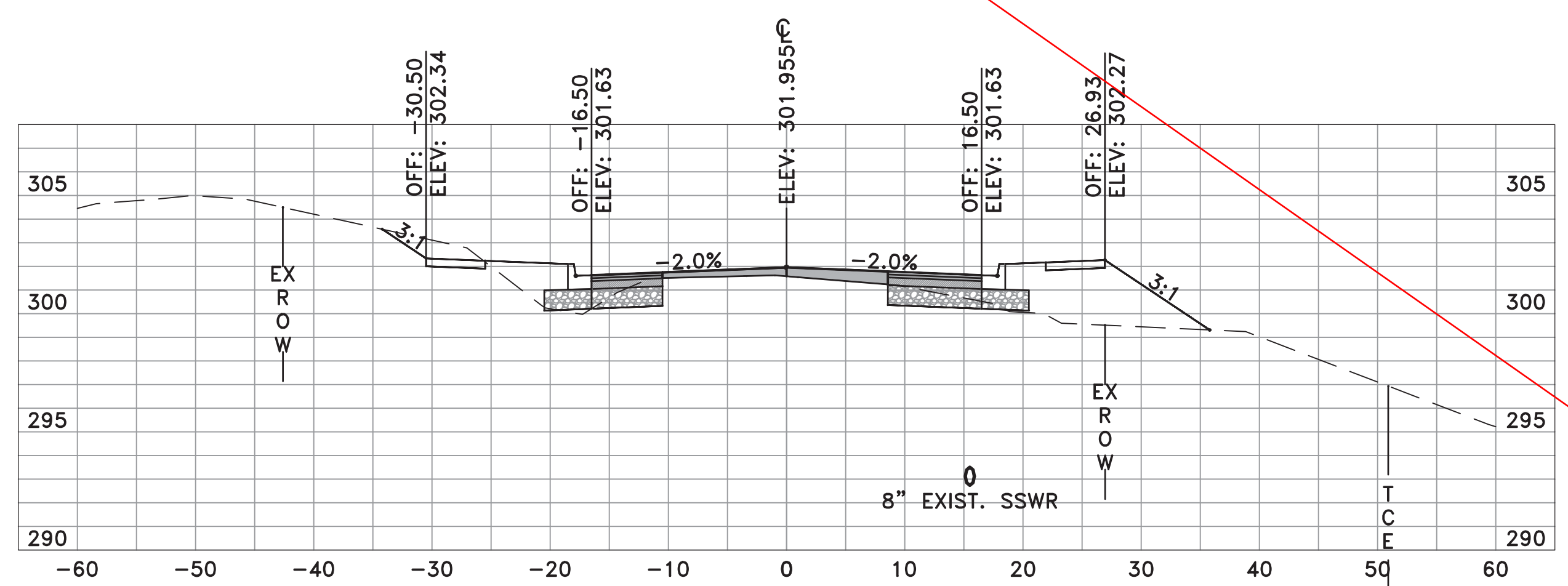
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
 CHICOT ROAD IMPROVEMENTS
 CROSS SECTIONS (5)

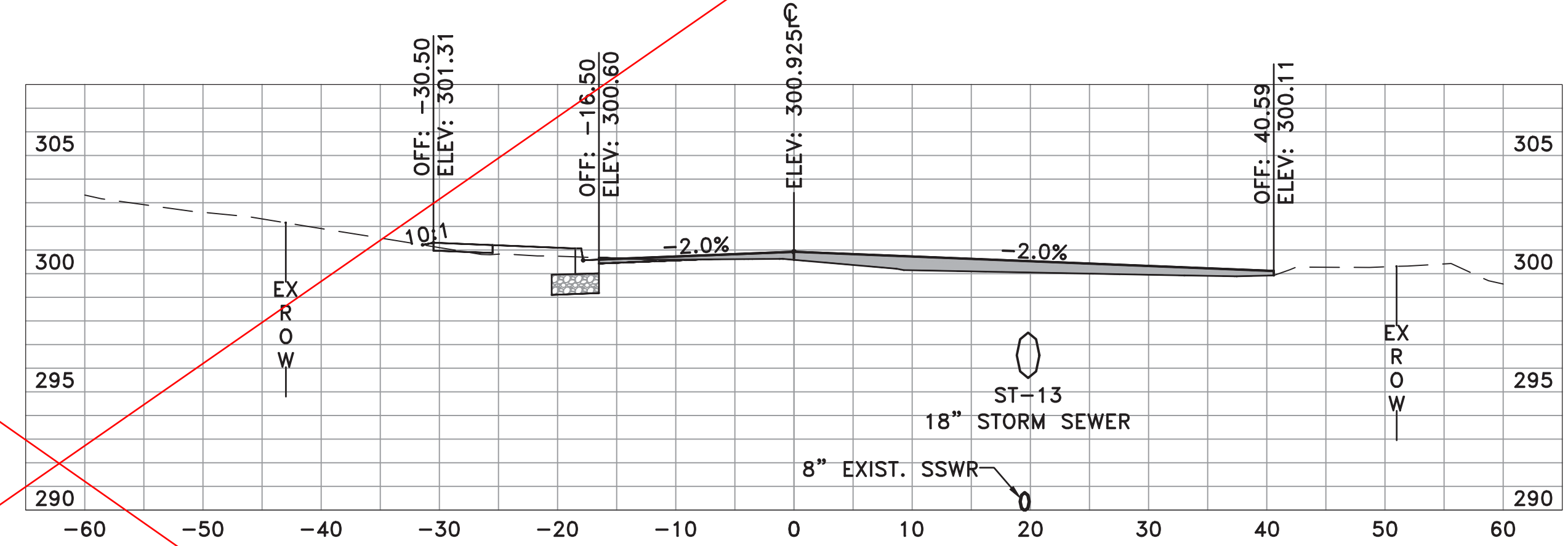
DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201



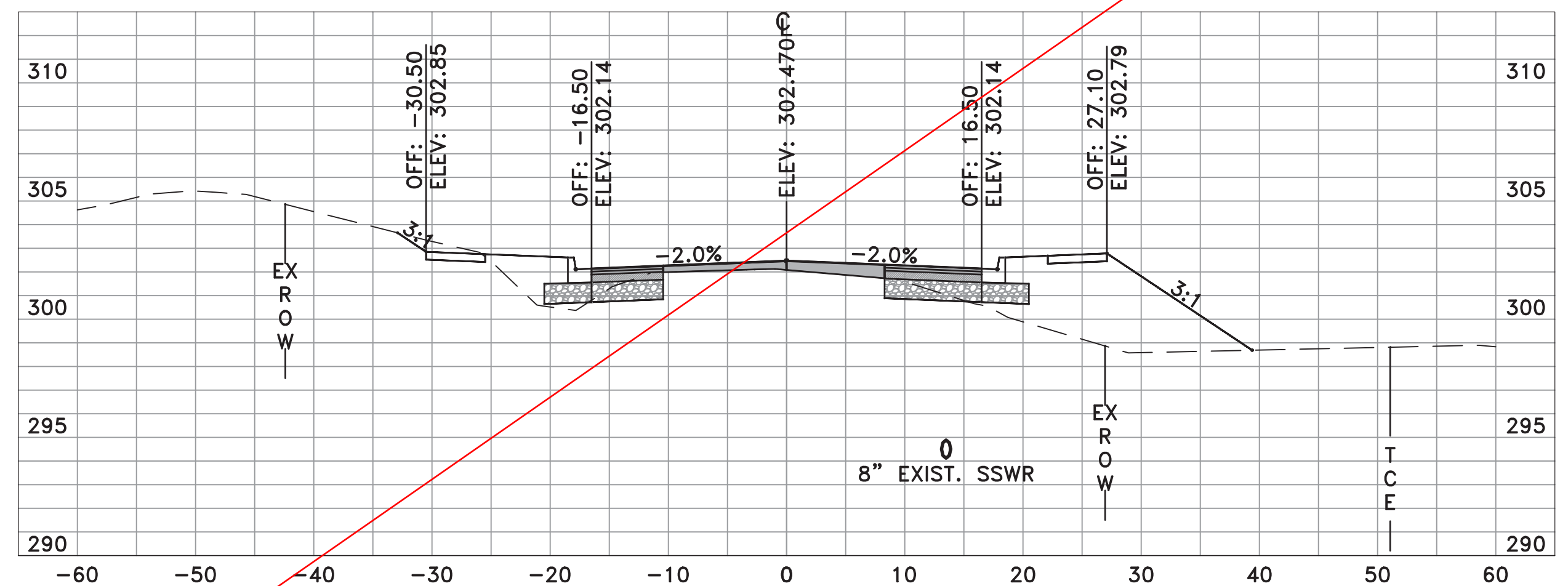
DRAWN BY
 KLL
 DESIGNED
 COF
 CHECKED
 BOL
 DATE
 1-28-2020
 SCALE
 H: 1"=10'
 V: 1"=5'
 PROJECT NO.
 CLR 07-17-ST-357
 SHEET NO.
 X5



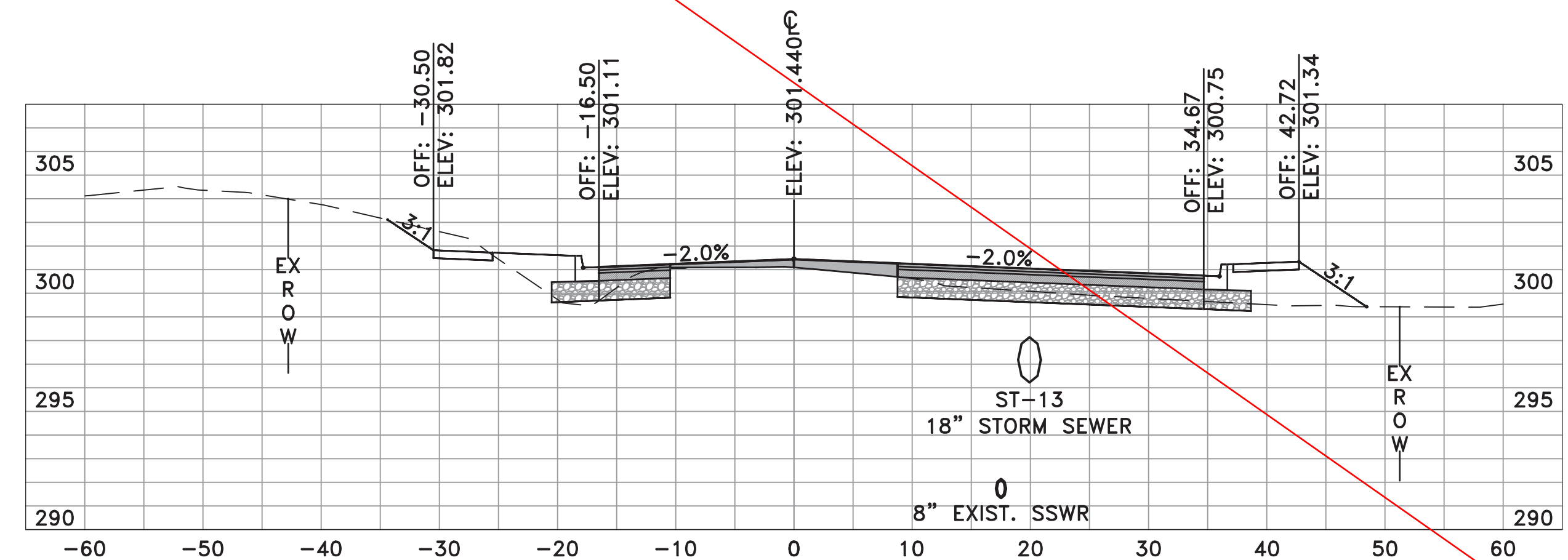
| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 15.68 | 25.18 | 581.32 |
| FILL | 47.27 | 112.29 | 1608.50 |



| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 7.40 | 29.75 | 648.49 |
| FILL | 13.12 | 38.42 | 1716.96 |



| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 11.52 | 20.28 | 556.14 |
| FILL | 74.00 | 123.59 | 1496.22 |



| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 24.73 | 37.41 | 618.74 |
| FILL | 28.37 | 70.04 | 1678.54 |

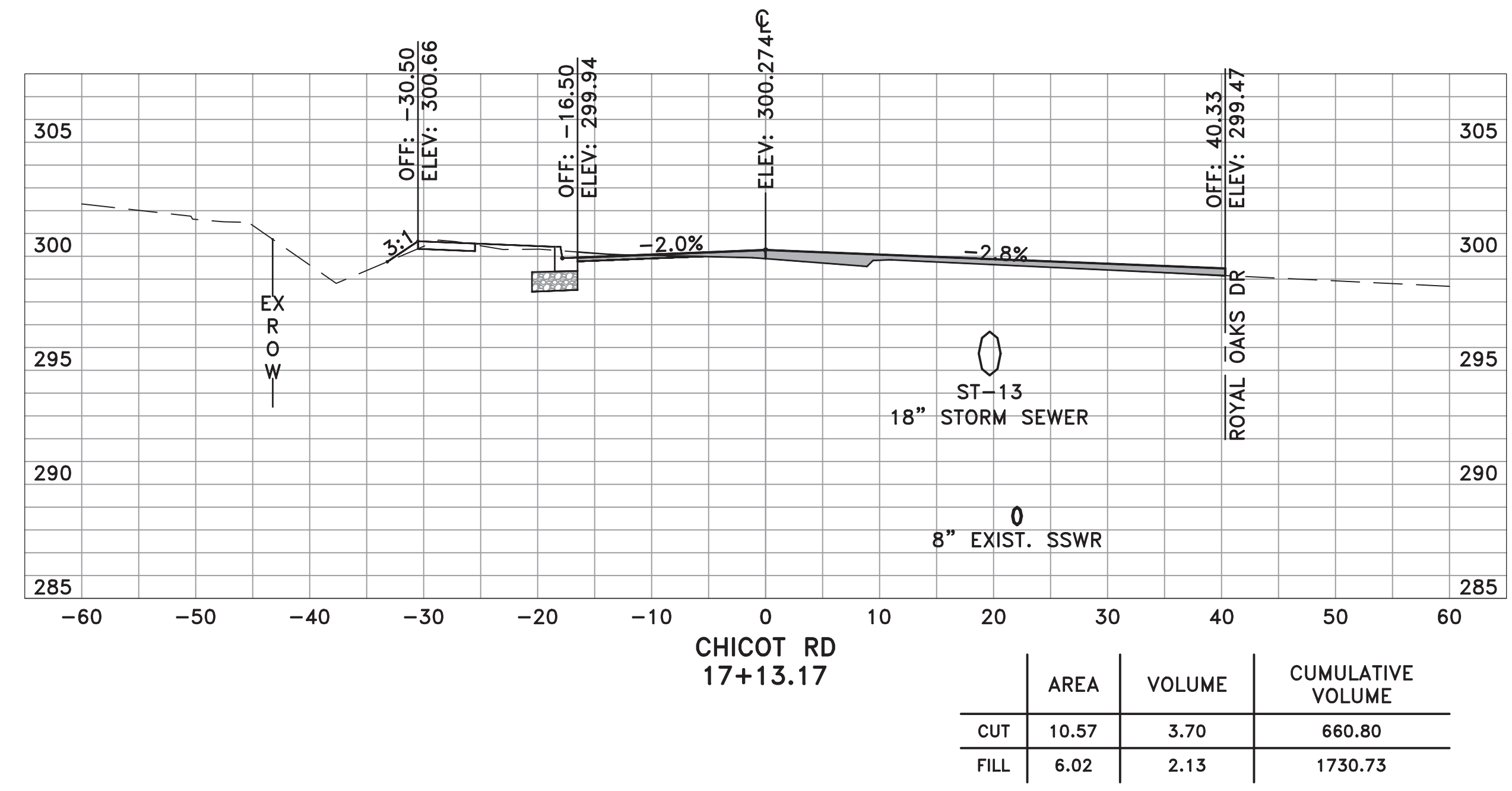
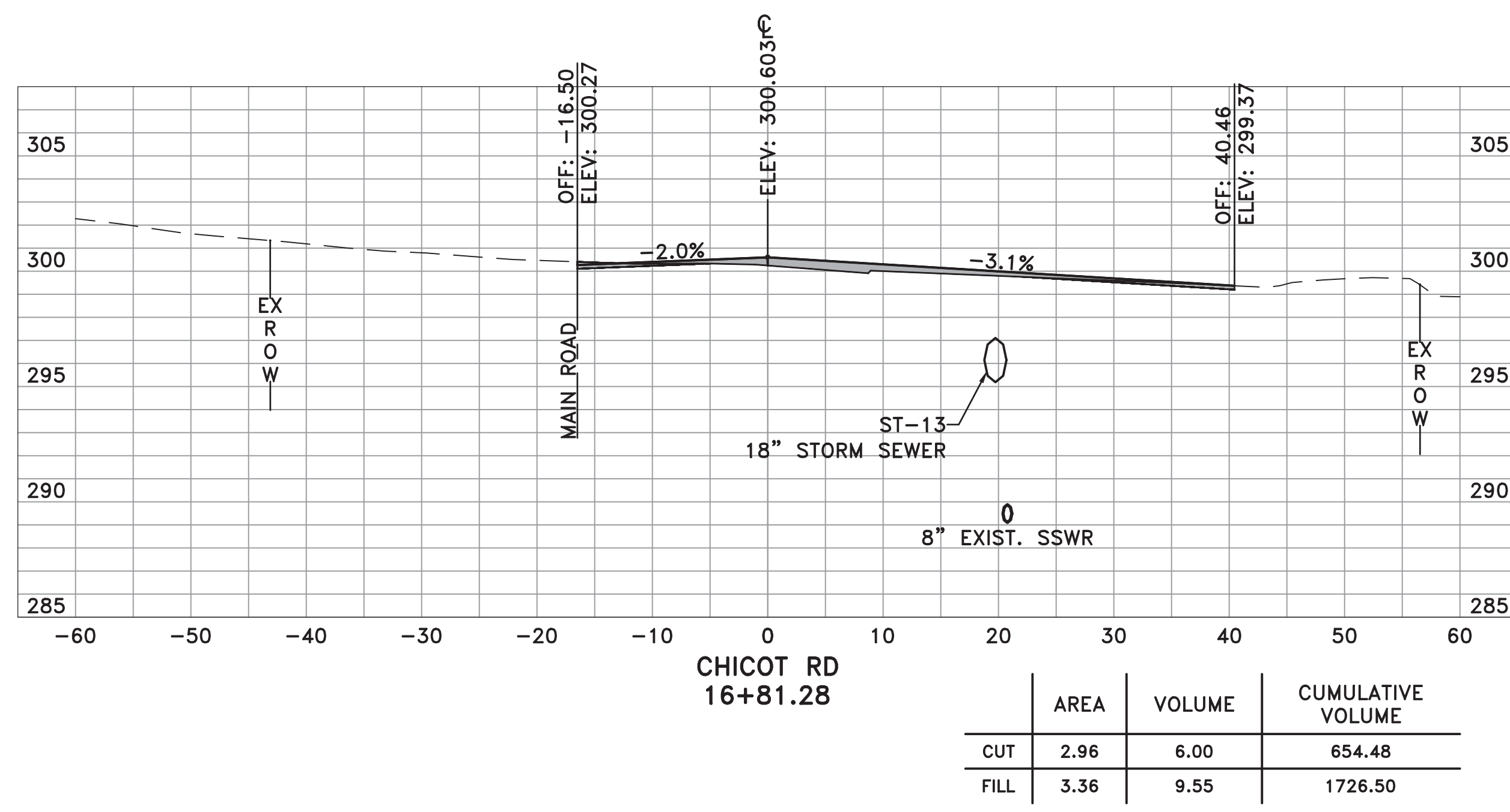
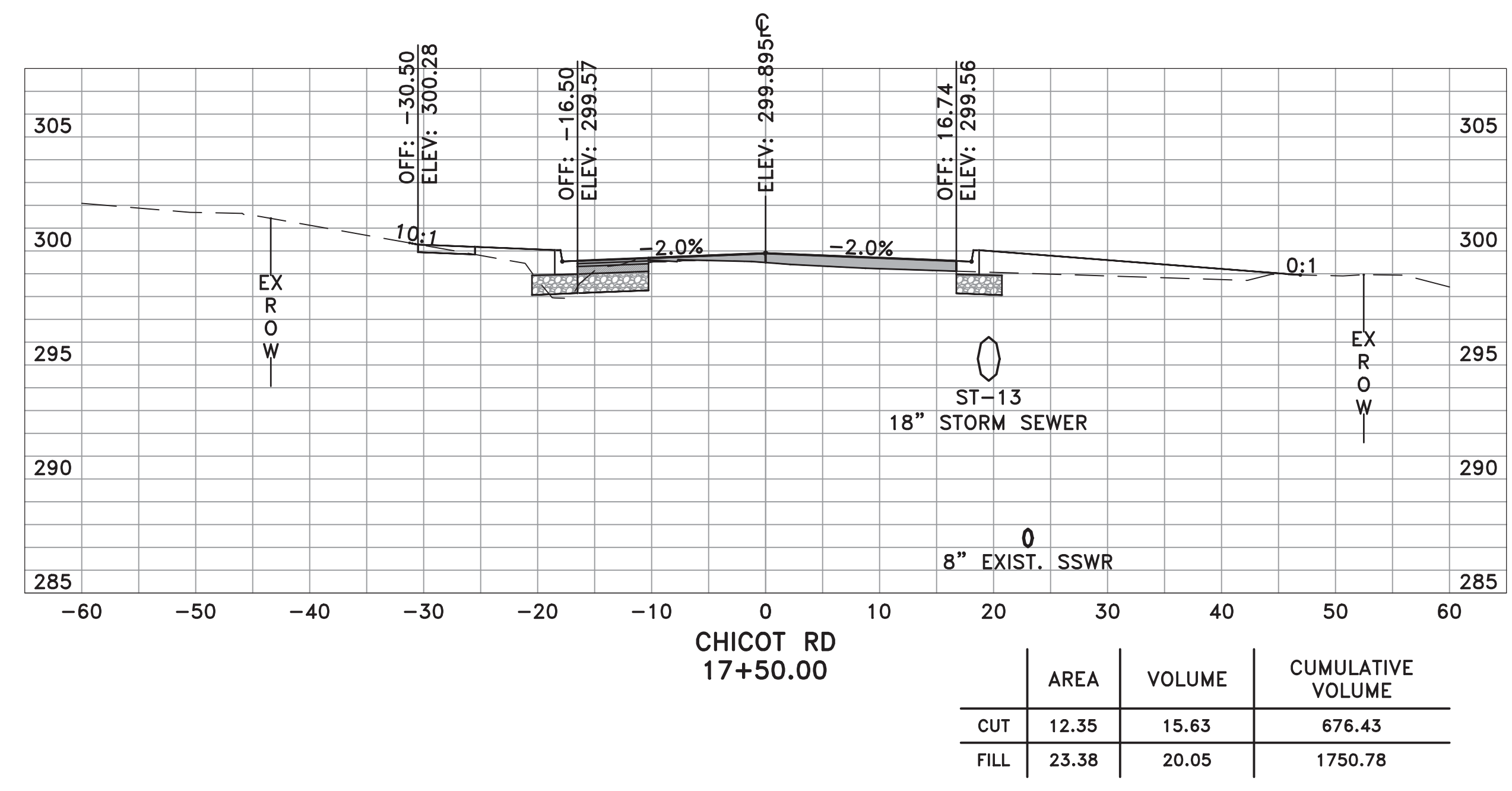
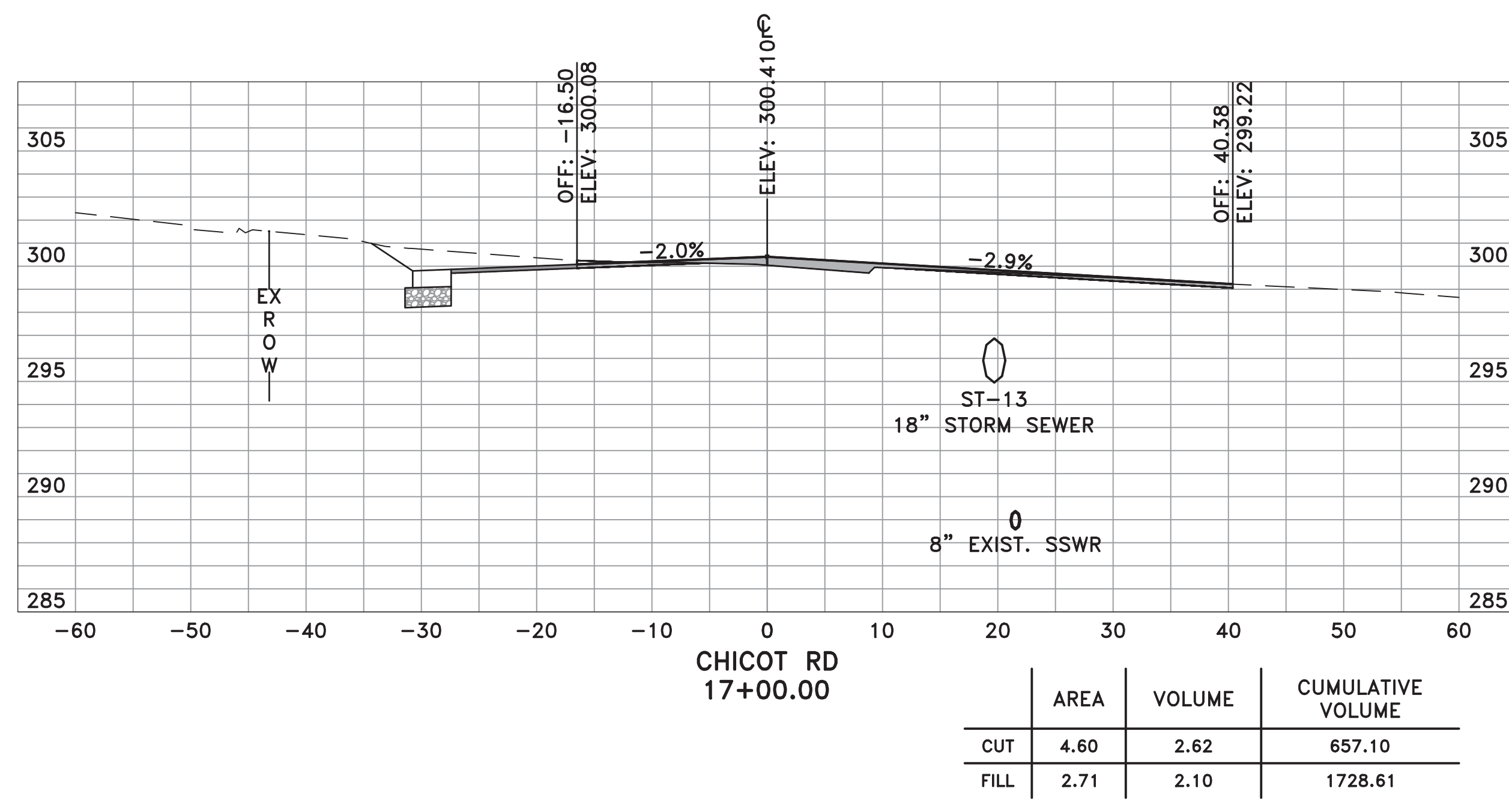
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (6)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X6



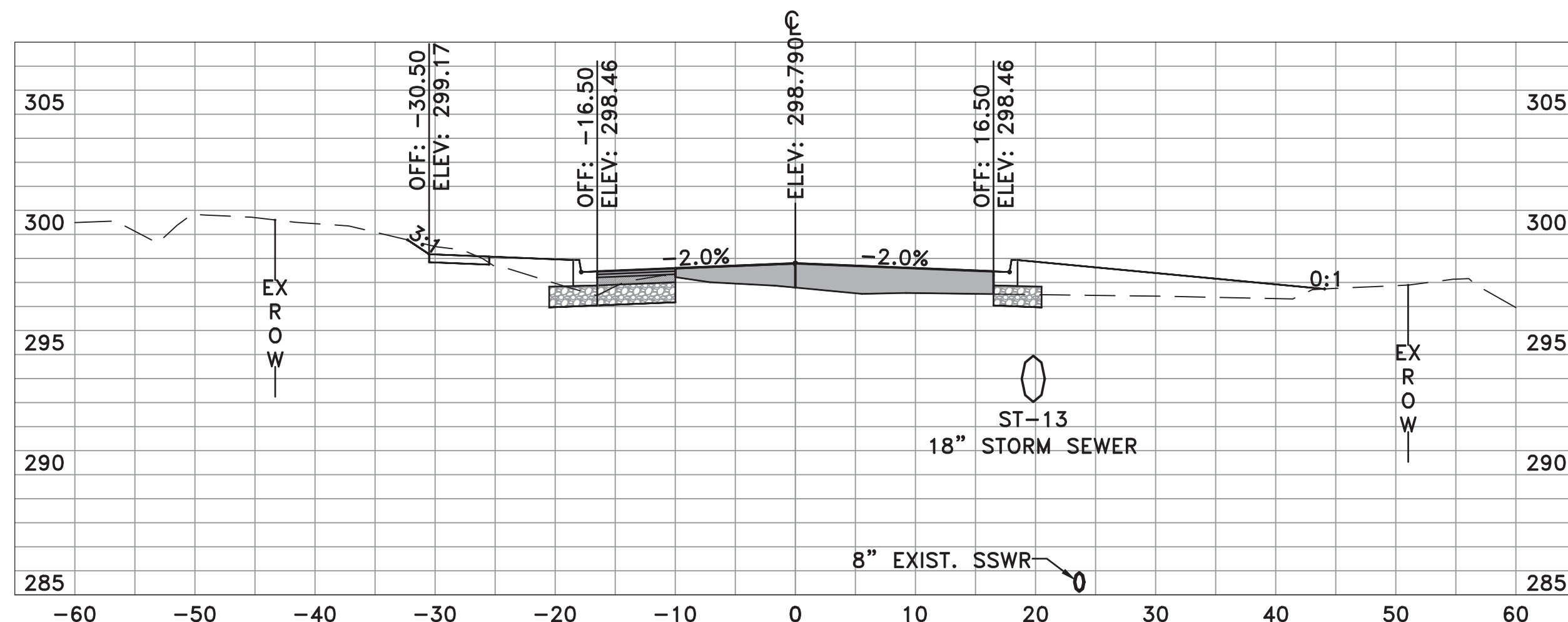
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (7)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

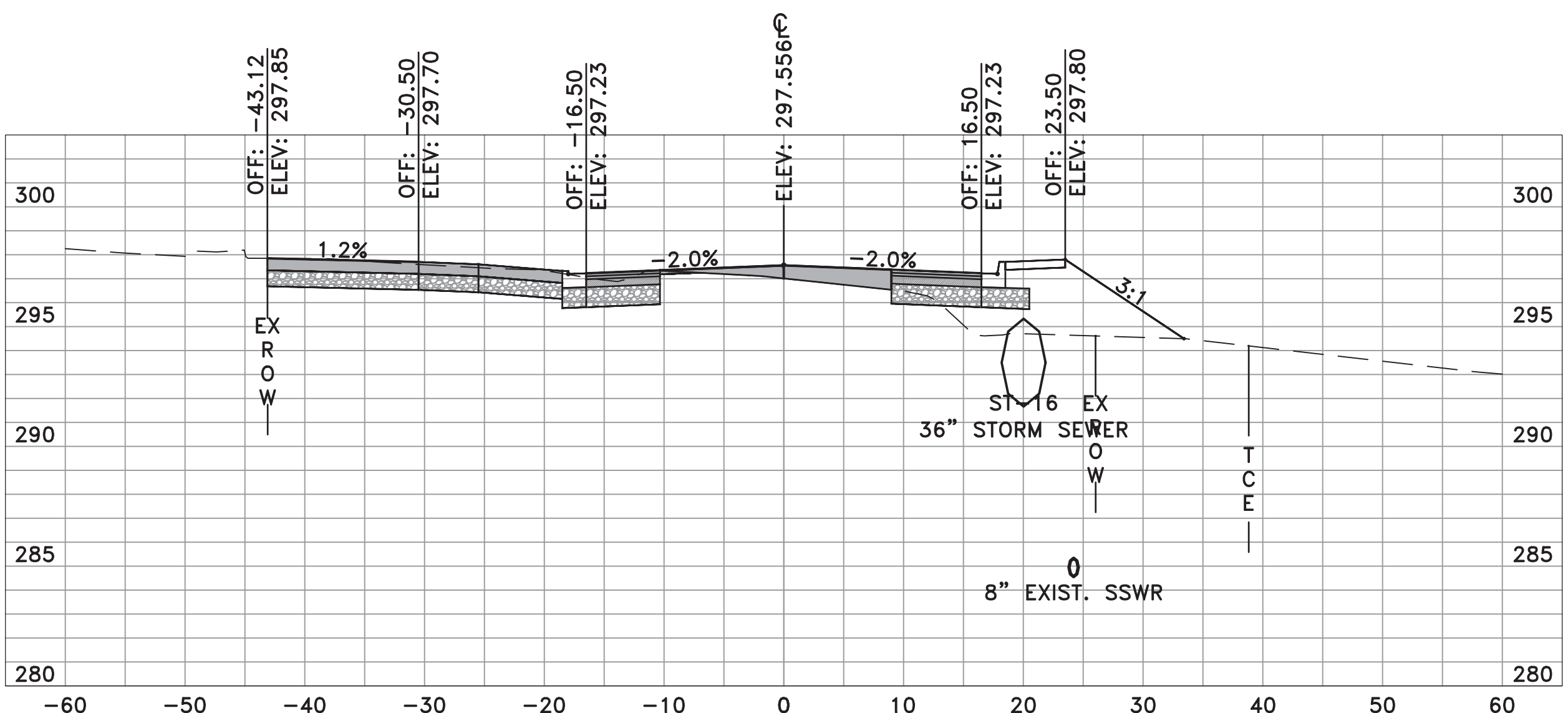


DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X7



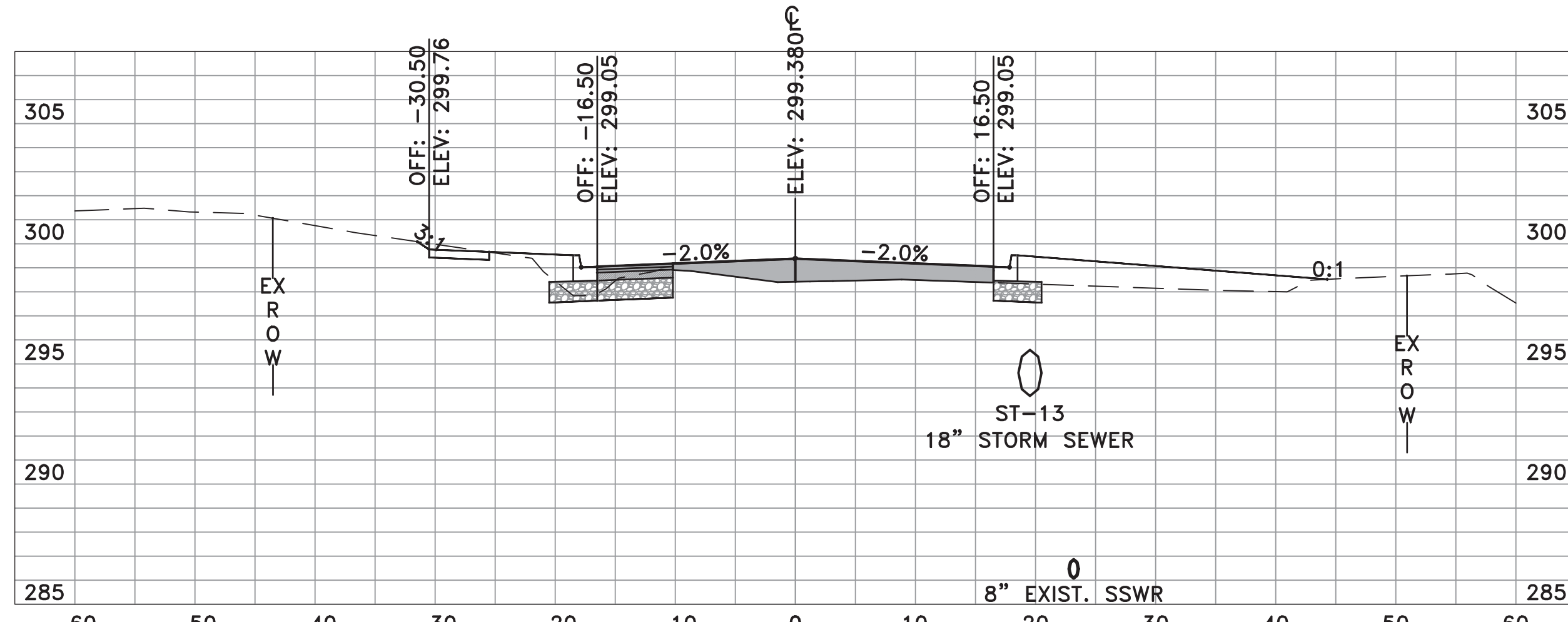
CHICOT RD
18+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 13.81 | 24.88 | 724.83 |
| FILL | 43.20 | 72.39 | 1877.22 |



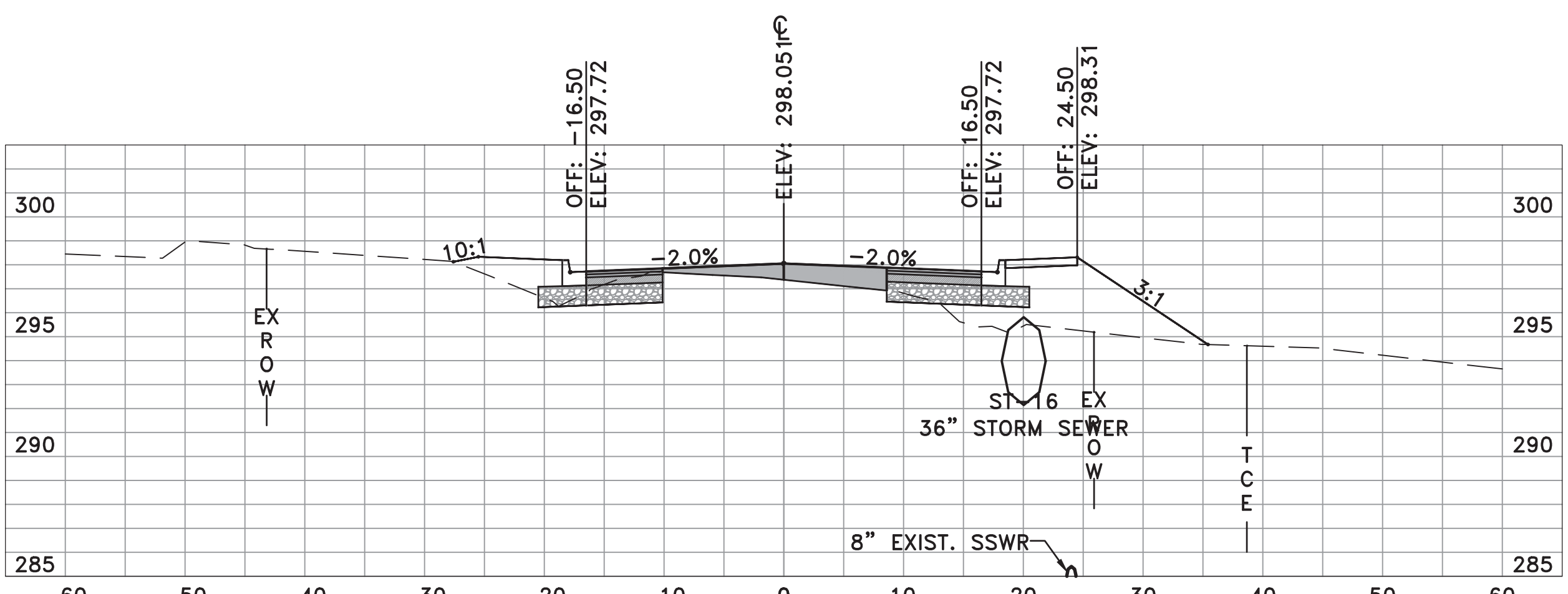
CHICOT RD
19+32.29

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 39.43 | 29.08 | 775.22 |
| FILL | 36.55 | 47.45 | 2004.31 |



CHICOT RD
18+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 13.06 | 23.52 | 699.96 |
| FILL | 34.99 | 54.05 | 1804.83 |



CHICOT RD
19+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 9.20 | 21.30 | 746.14 |
| FILL | 42.81 | 79.64 | 1956.86 |

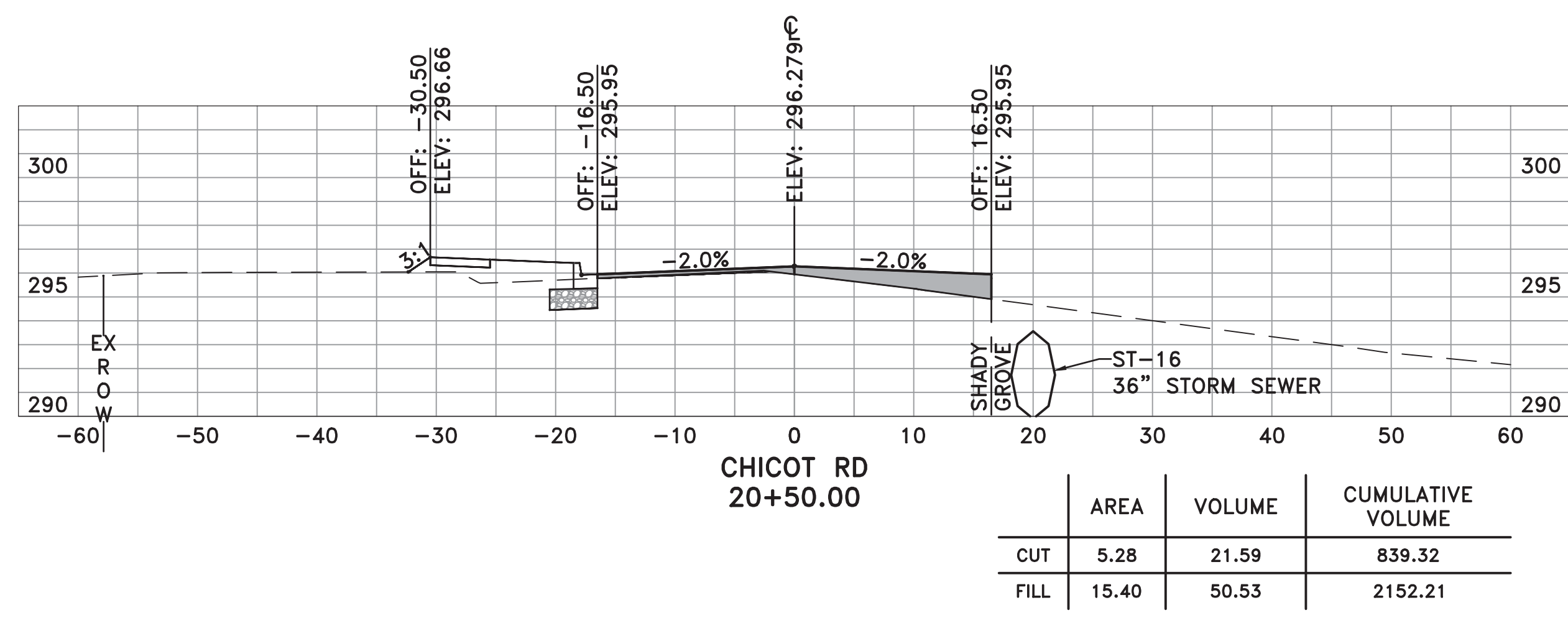
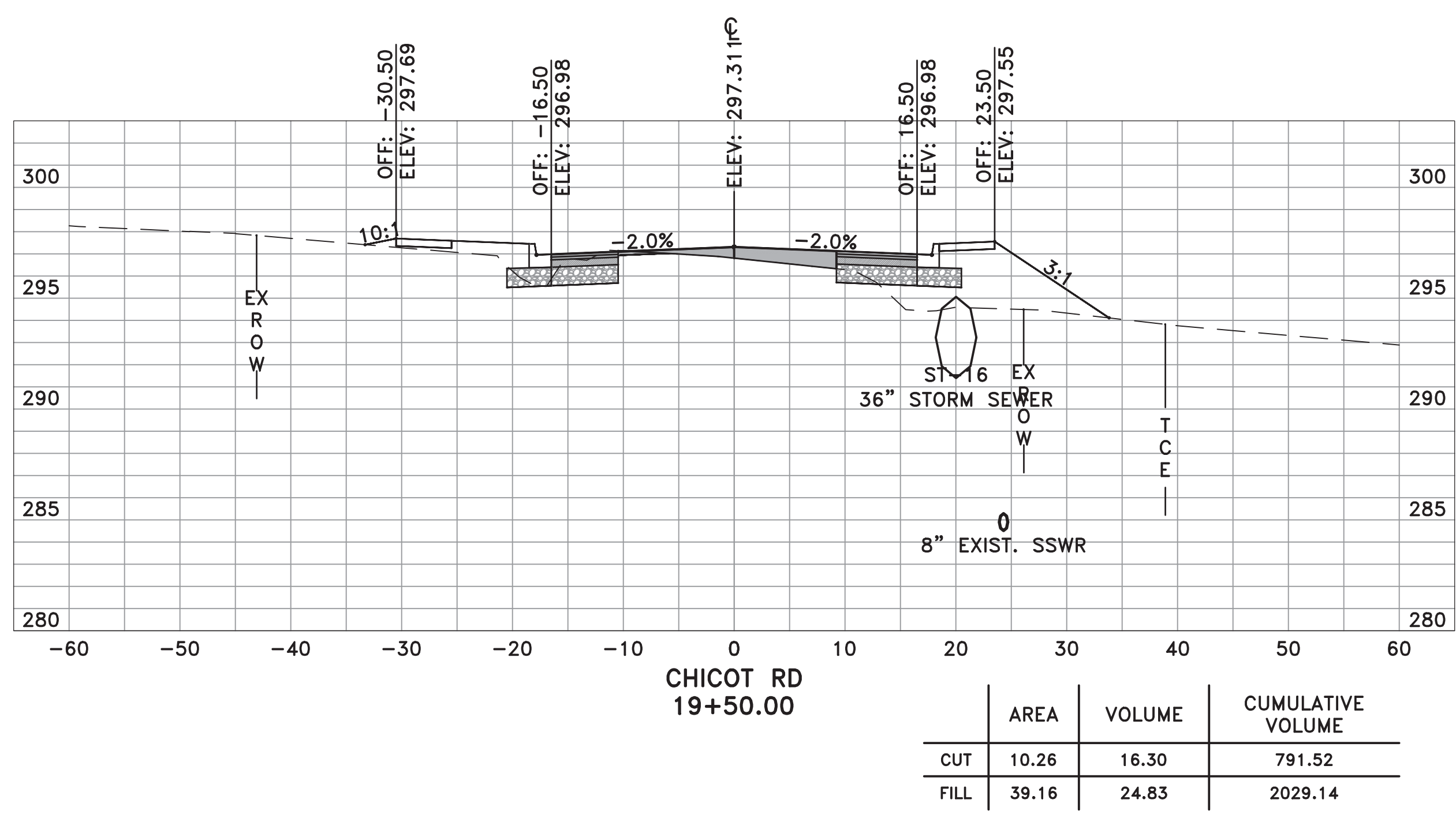
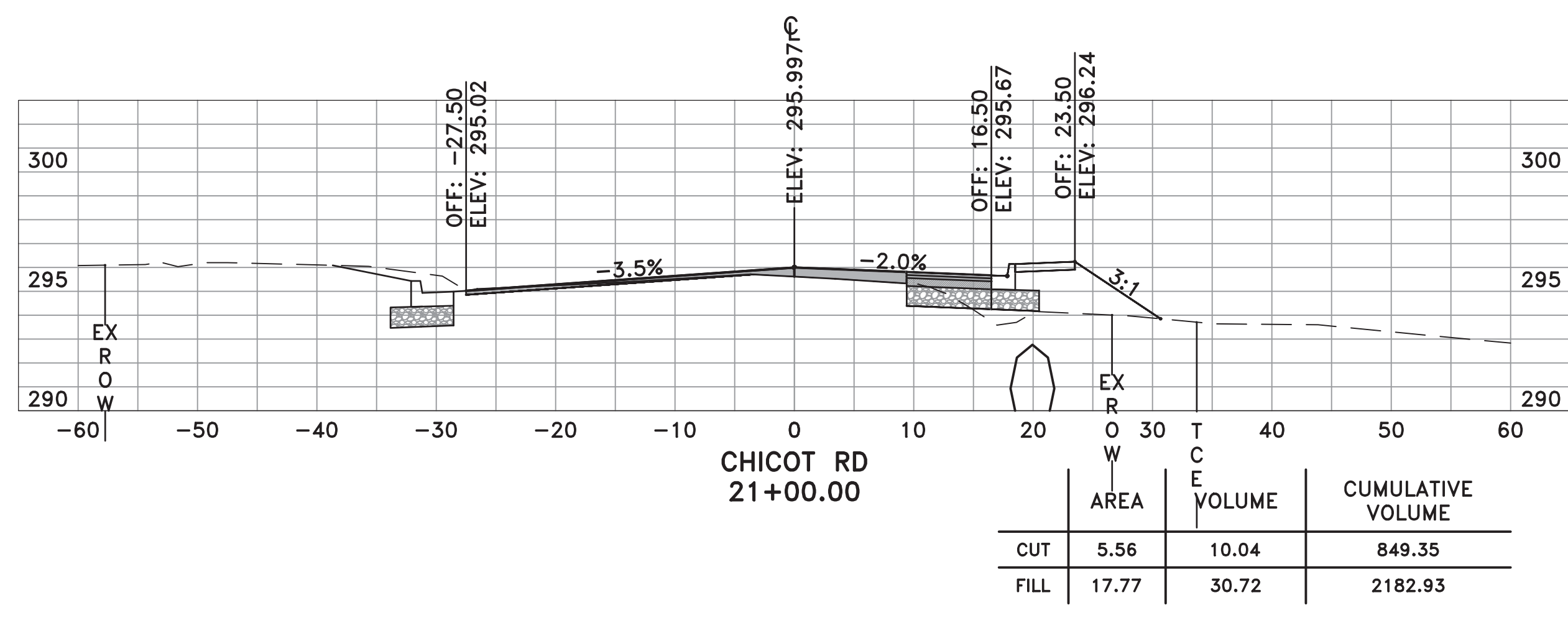
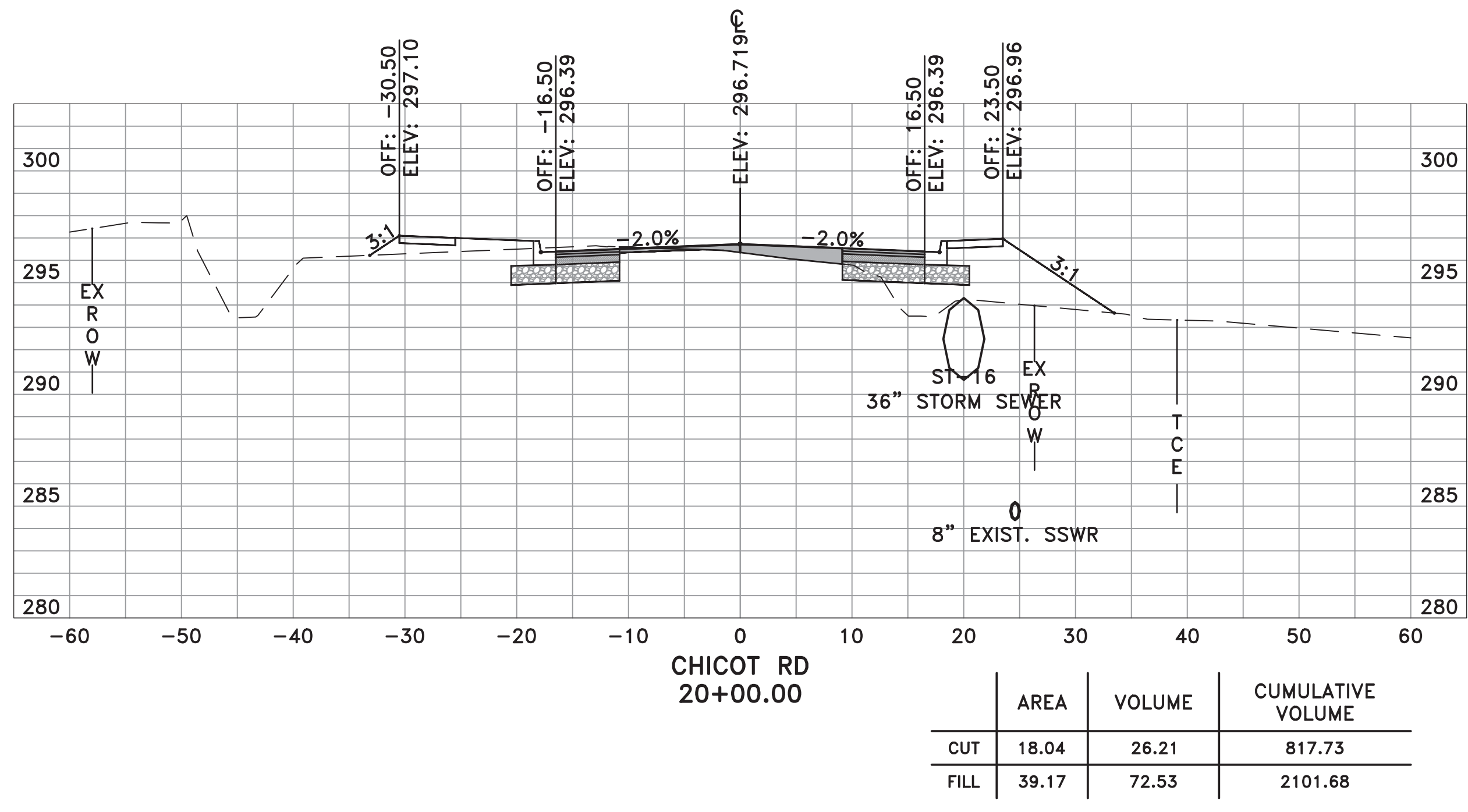
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (8)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X8



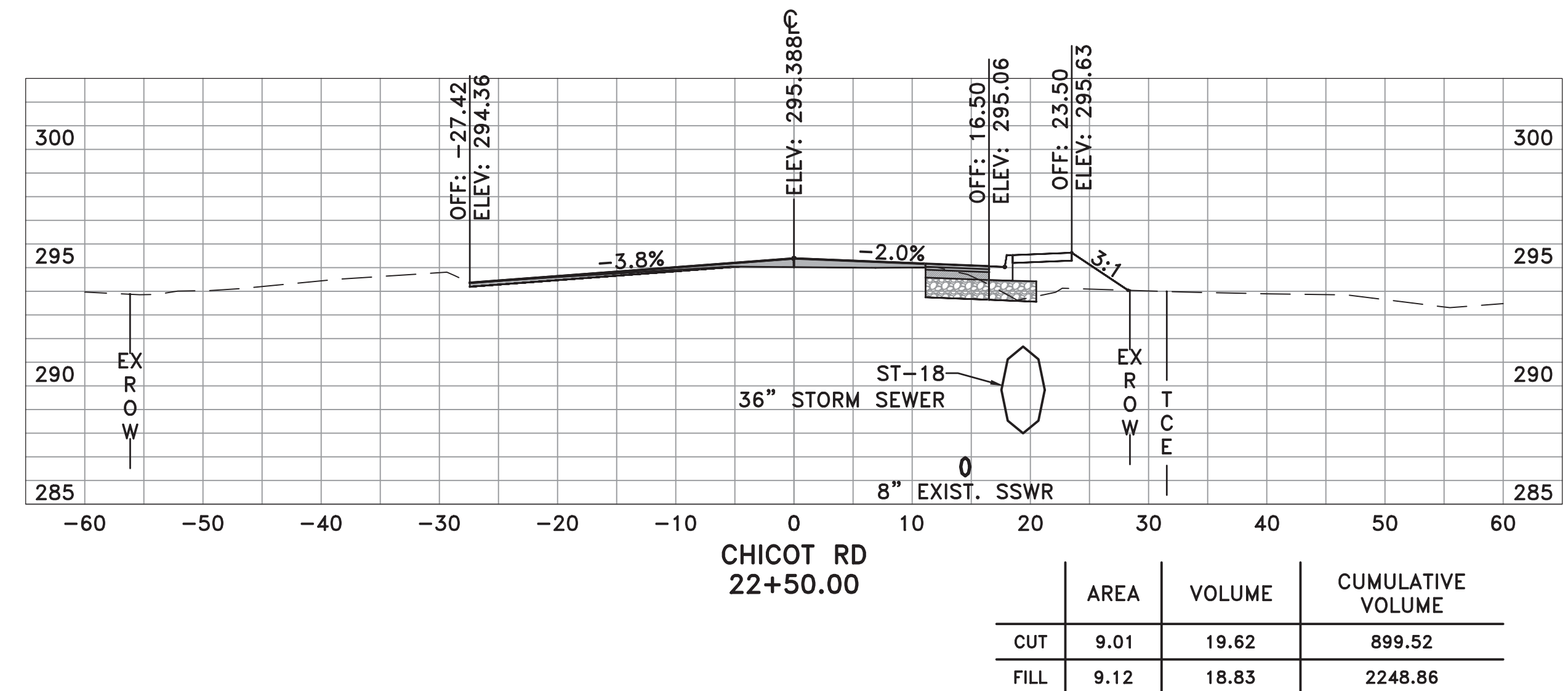
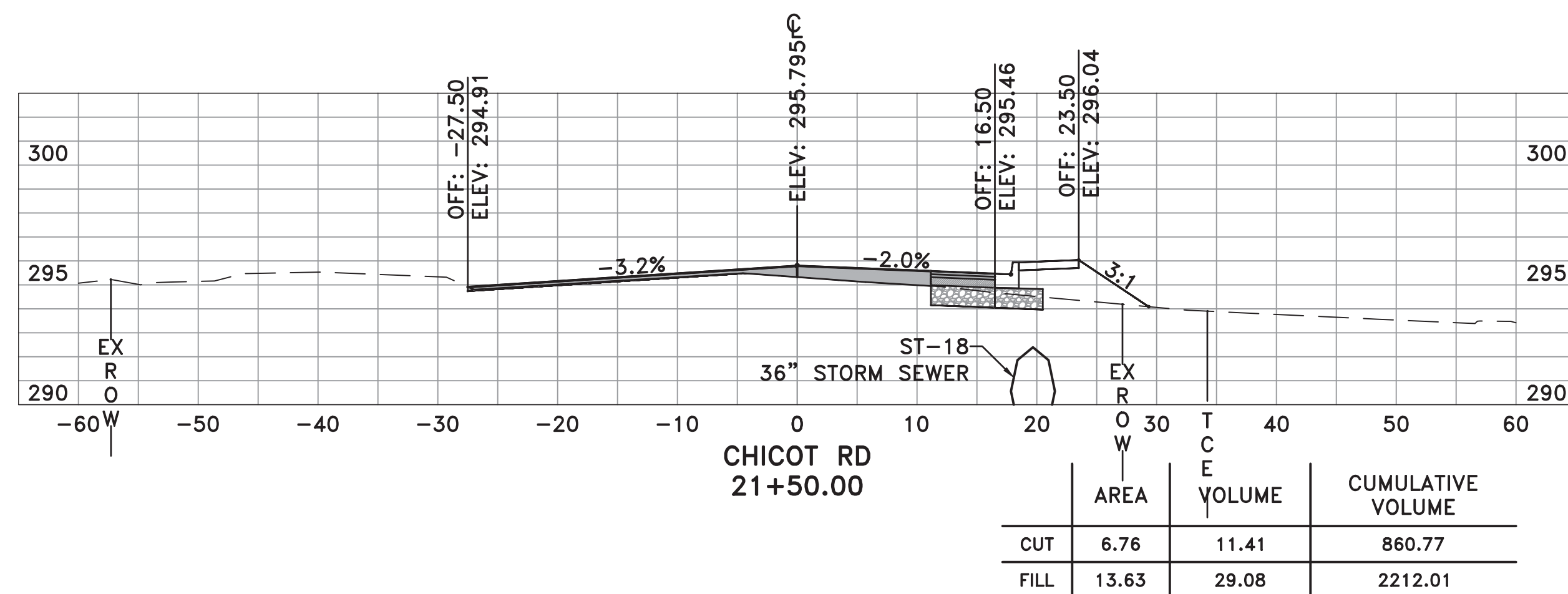
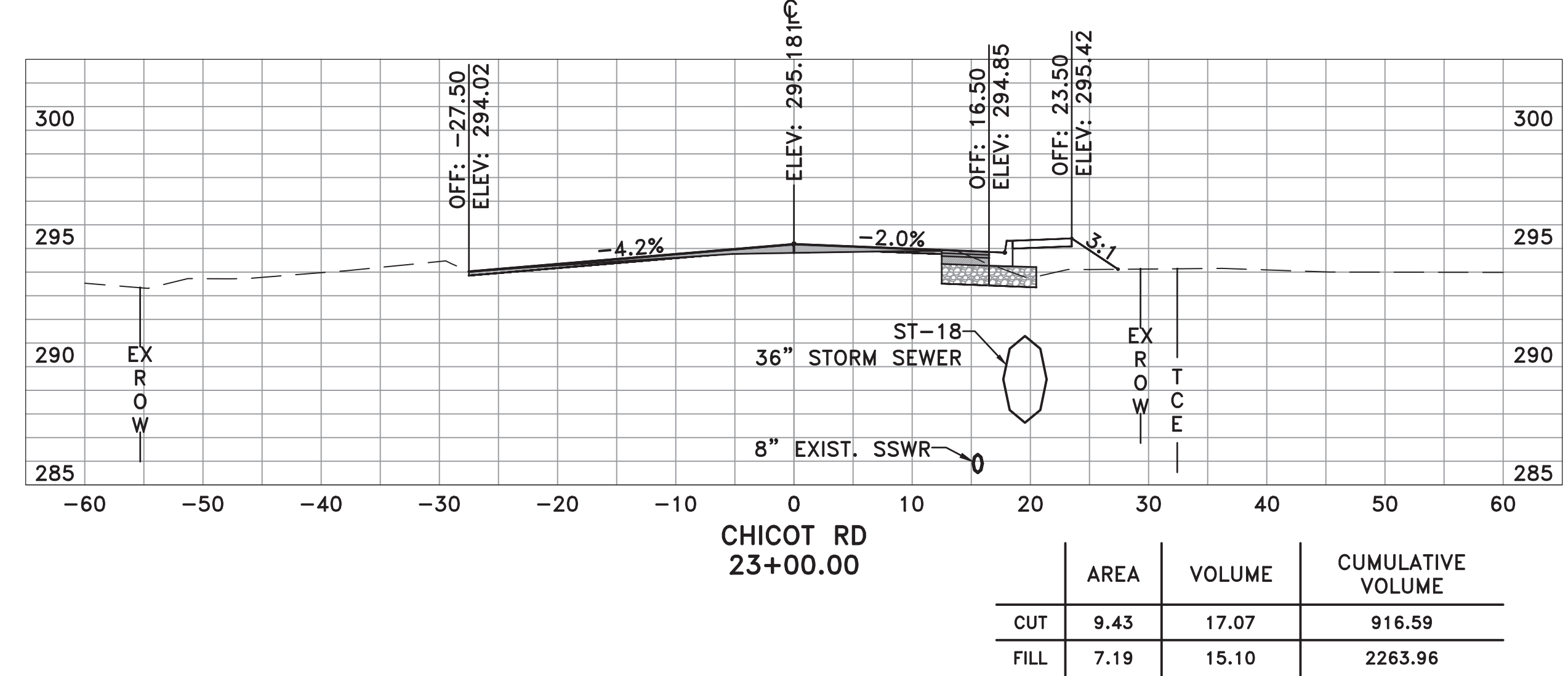
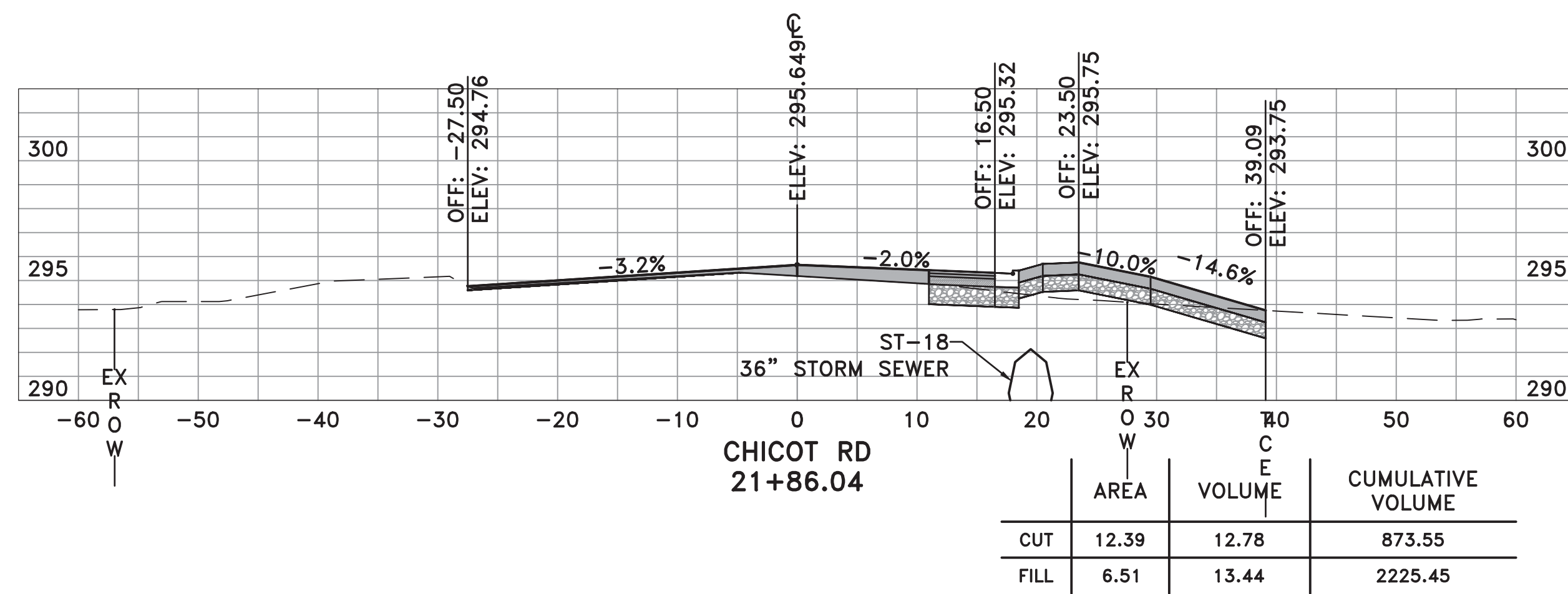
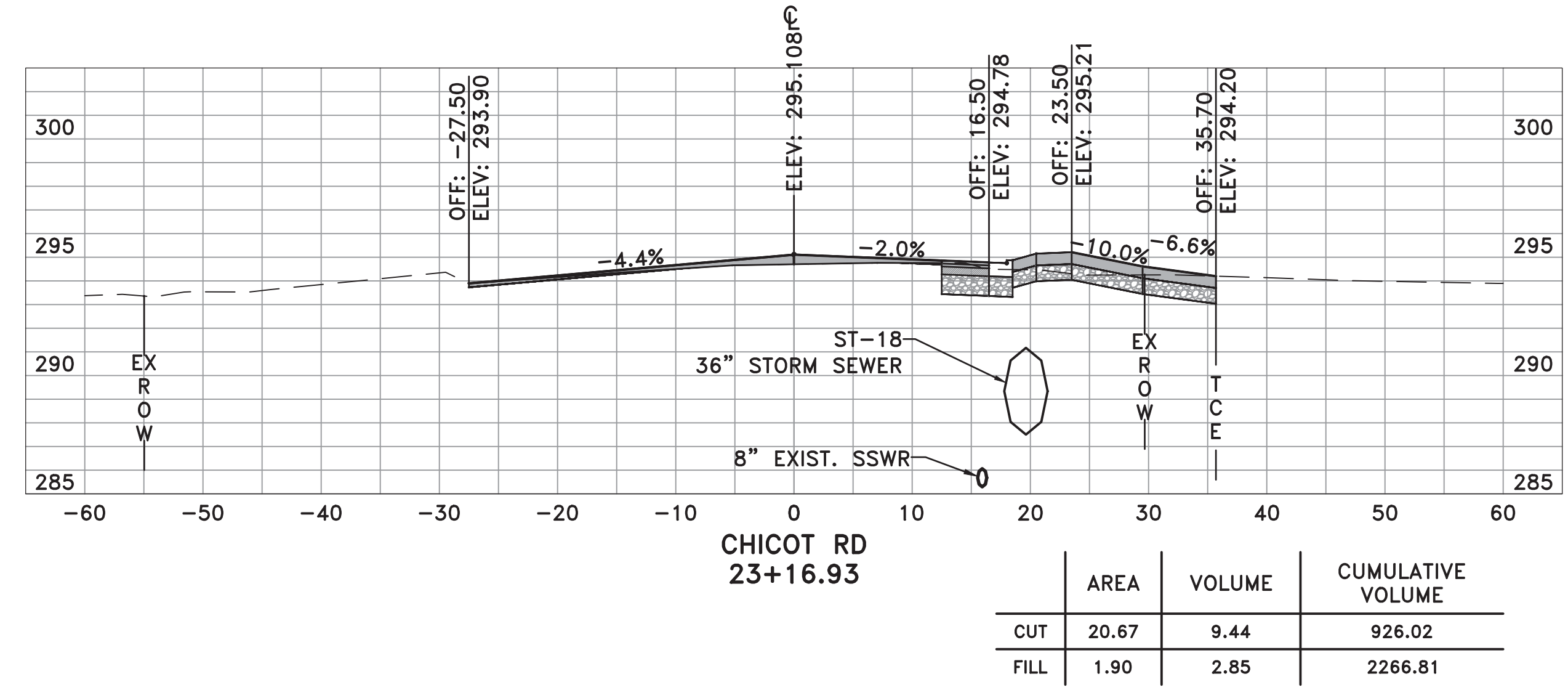
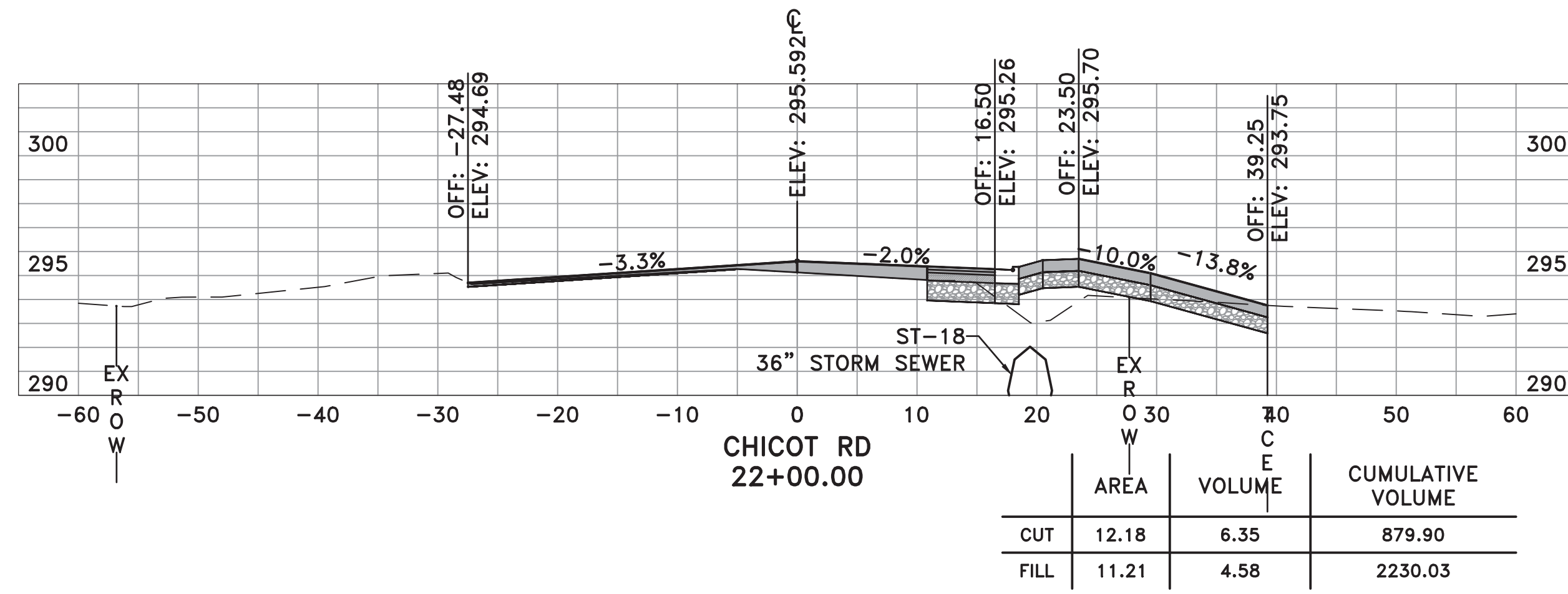
| REVISIONS | DATE |
|-----------|------|
| | |

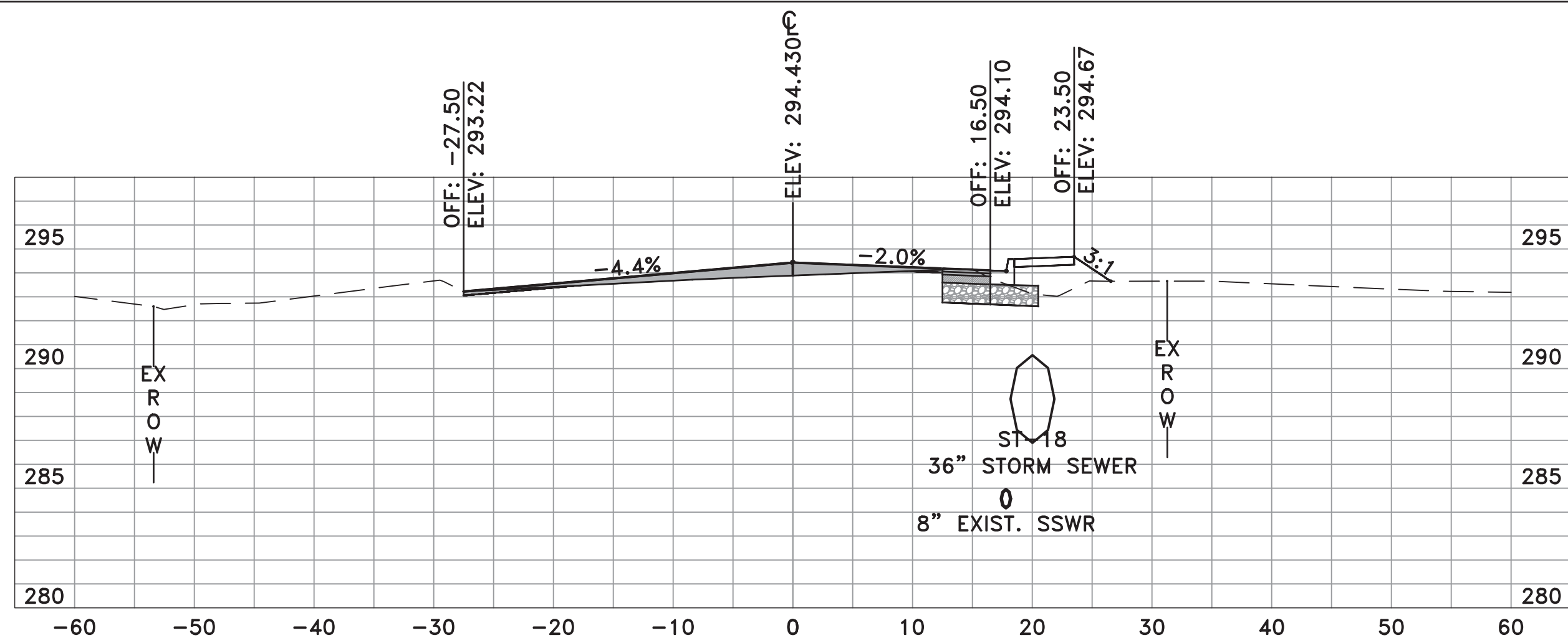
CITY OF LITTLE ROCK, ARKANSAS
 CHICOT ROAD IMPROVEMENTS
 CROSS SECTIONS (9)

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201



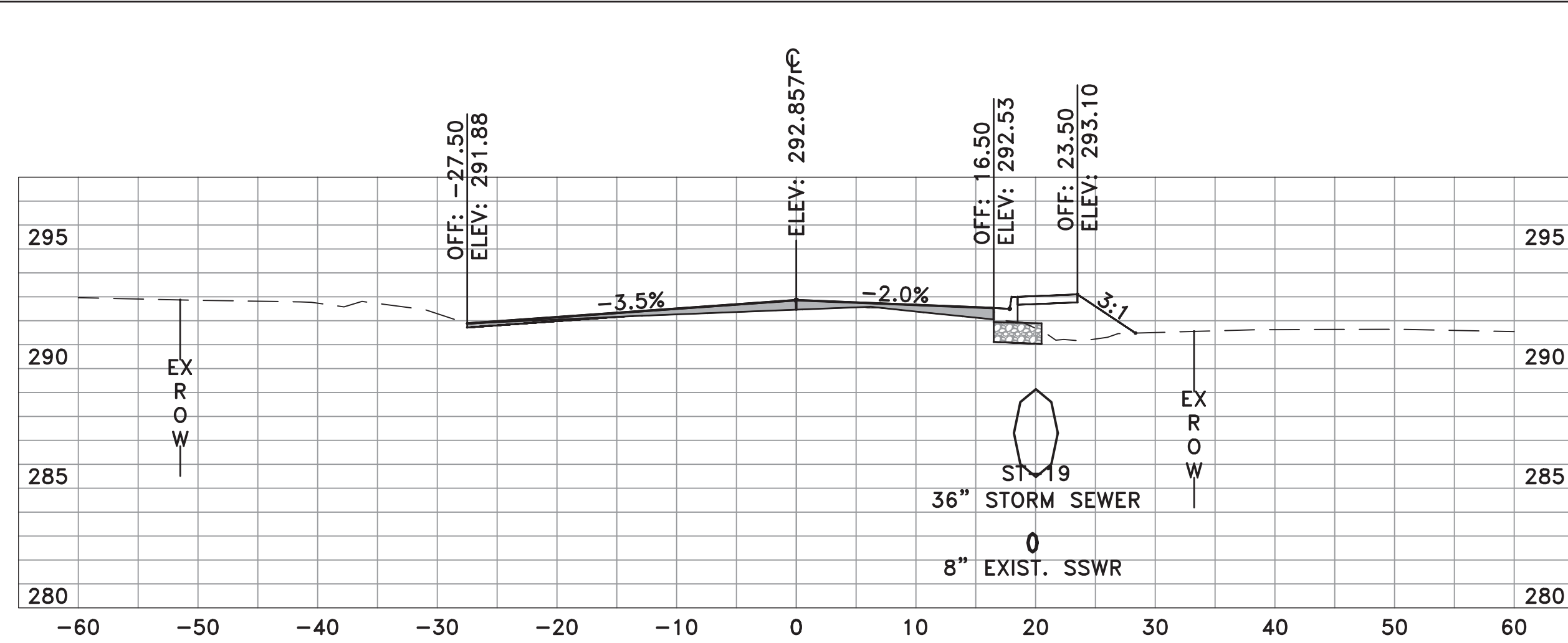
DRAWN BY
 KLL
 DESIGNED
 COF
 CHECKED
 BOL
 DATE
 1-28-2020
 SCALE
 H: 1"=10'
 V: 1"=5'
 PROJECT NO.
 CLR 07-17-ST-357
 SHEET NO.
 X9





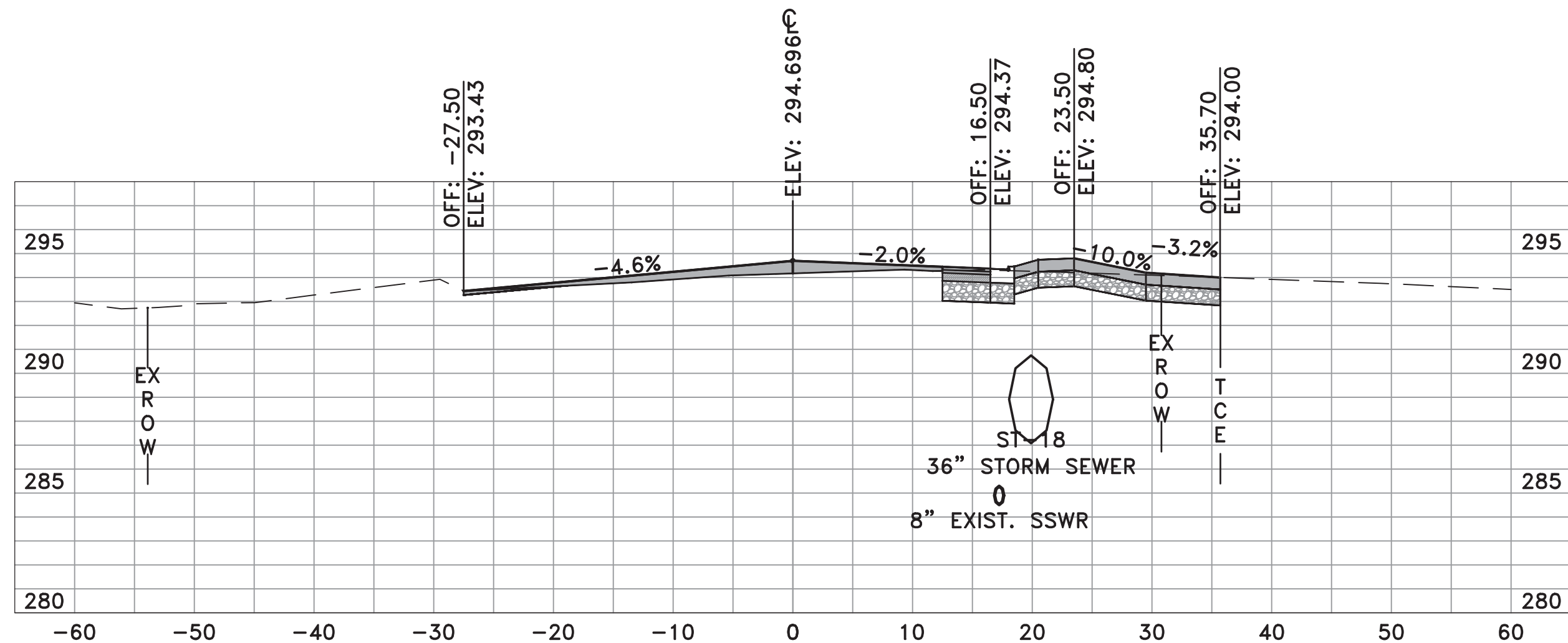
CHICOT RD
24+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 9.41 | 15.61 | 978.48 |
| FILL | 10.31 | 7.07 | 2281.89 |



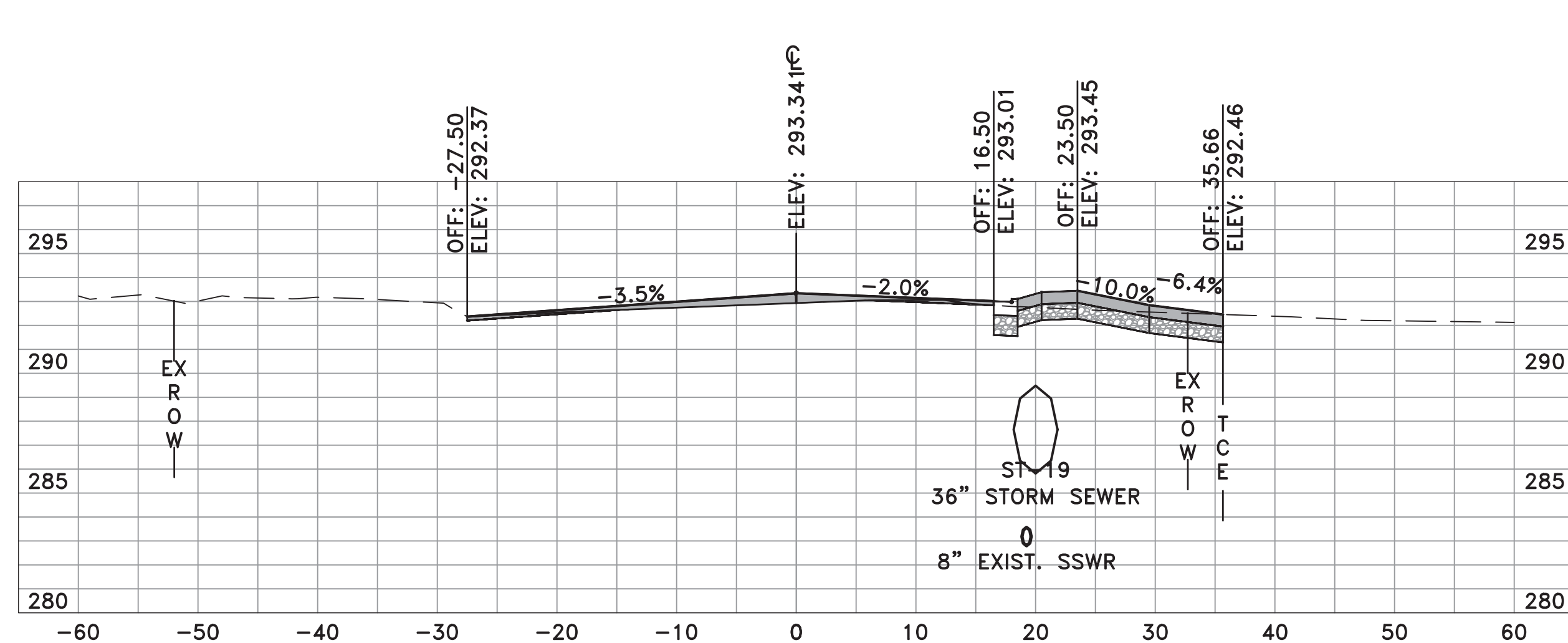
CHICOT RD
25+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 5.81 | 10.87 | 1018.04 |
| FILL | 12.93 | 7.38 | 2313.96 |



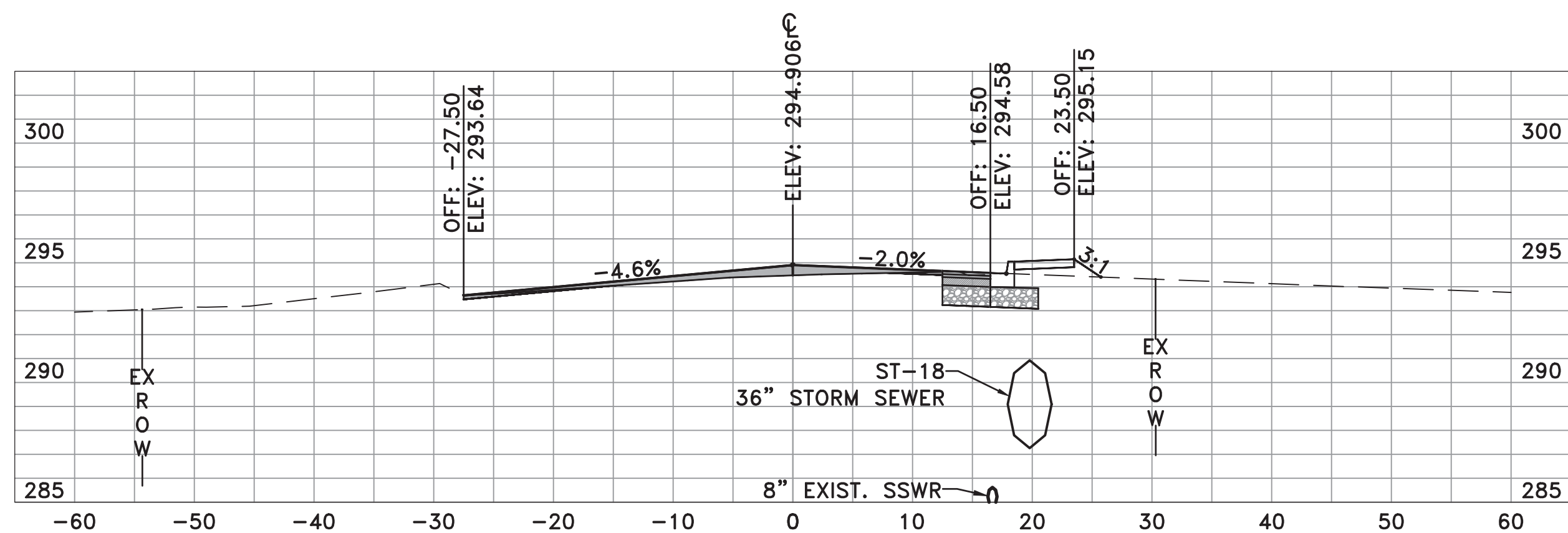
CHICOT RD
23+74.84

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 24.08 | 16.70 | 962.87 |
| FILL | 4.86 | 4.21 | 2274.82 |



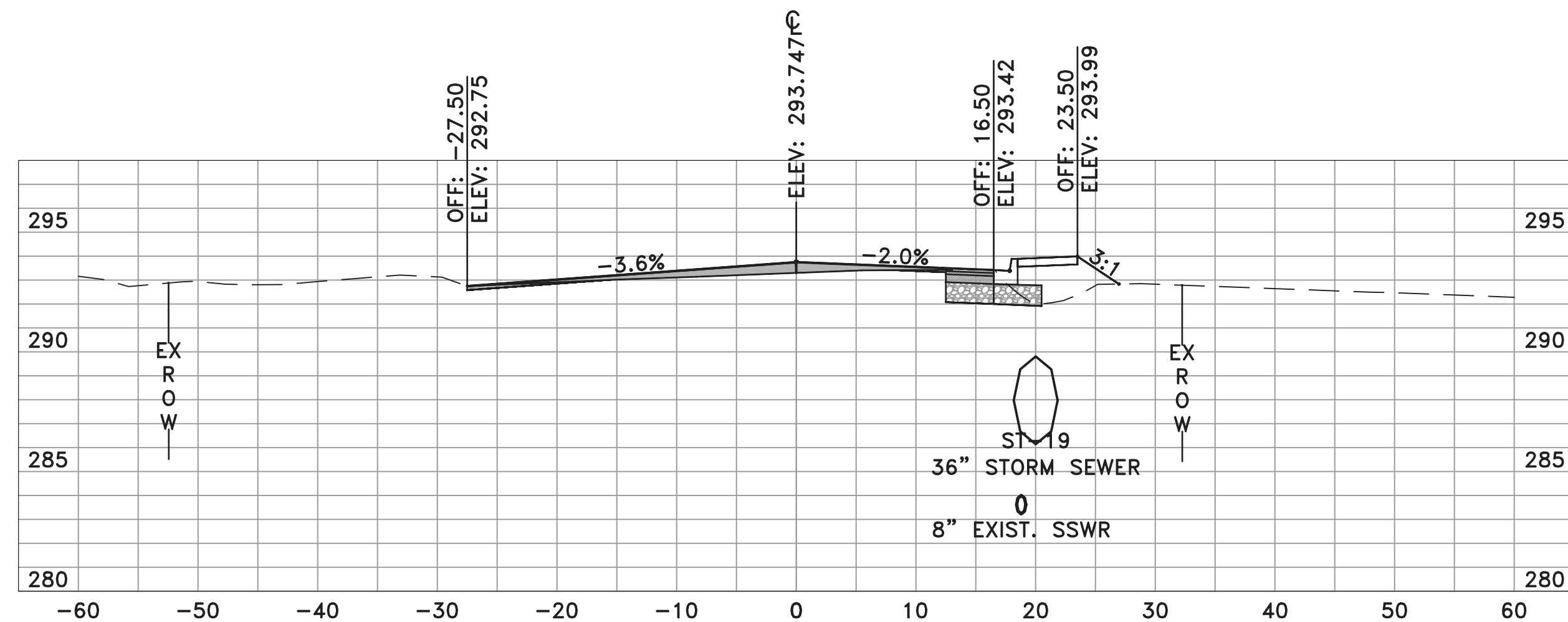
CHICOT RD
24+74.23

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 16.97 | 11.65 | 1007.17 |
| FILL | 2.53 | 5.71 | 2306.58 |



CHICOT RD
23+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 12.22 | 20.15 | 946.17 |
| FILL | 4.30 | 3.80 | 2270.61 |



CHICOT RD
24+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 9.00 | 17.05 | 995.52 |
| FILL | 10.19 | 18.98 | 2300.87 |

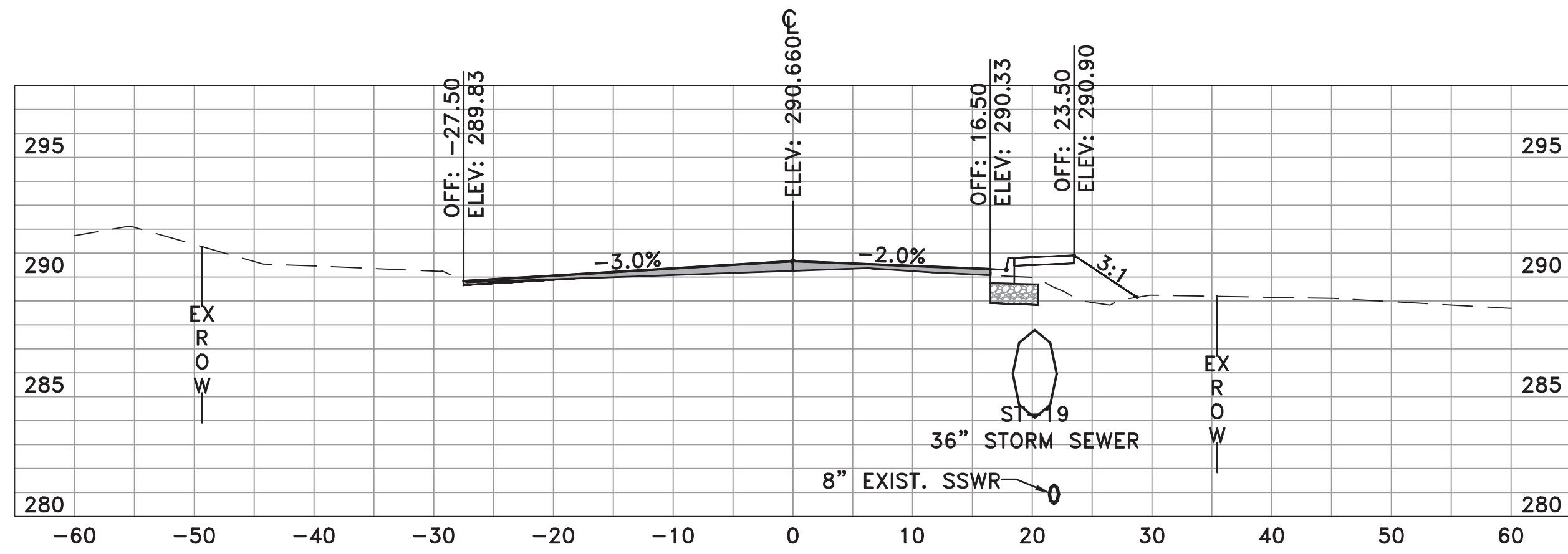
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (10)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

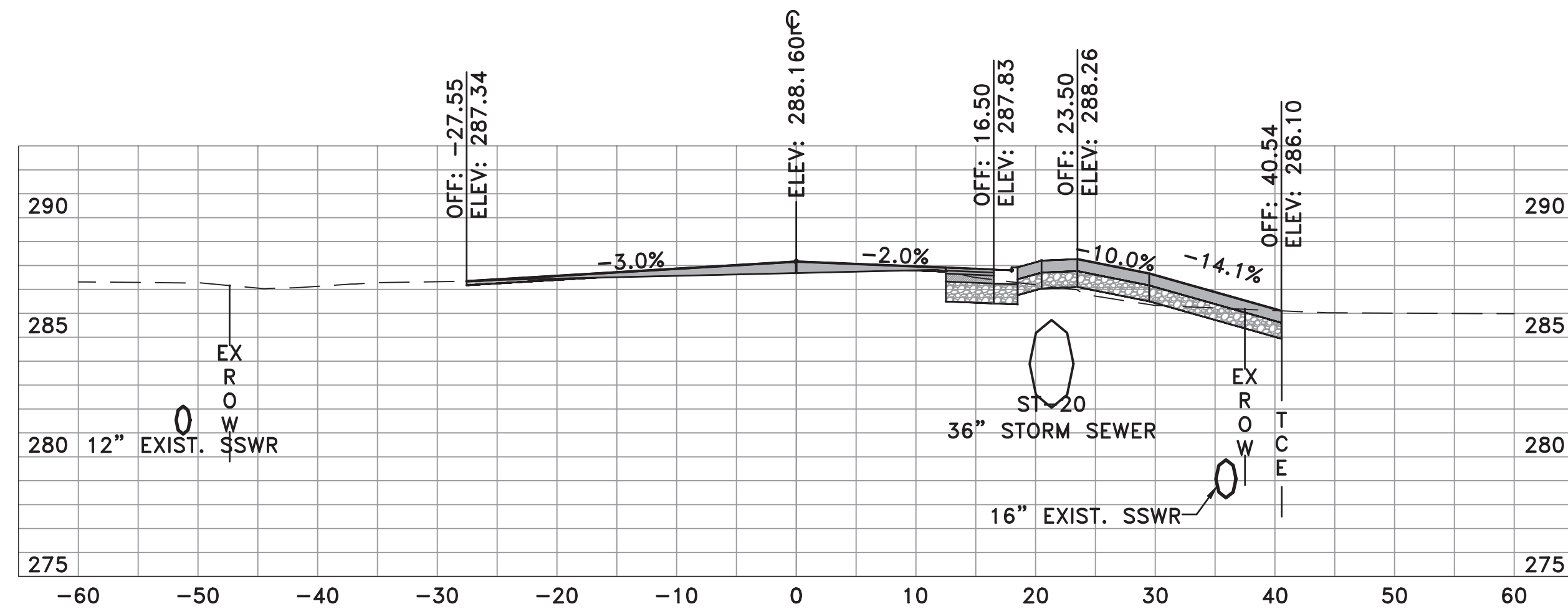


DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X10



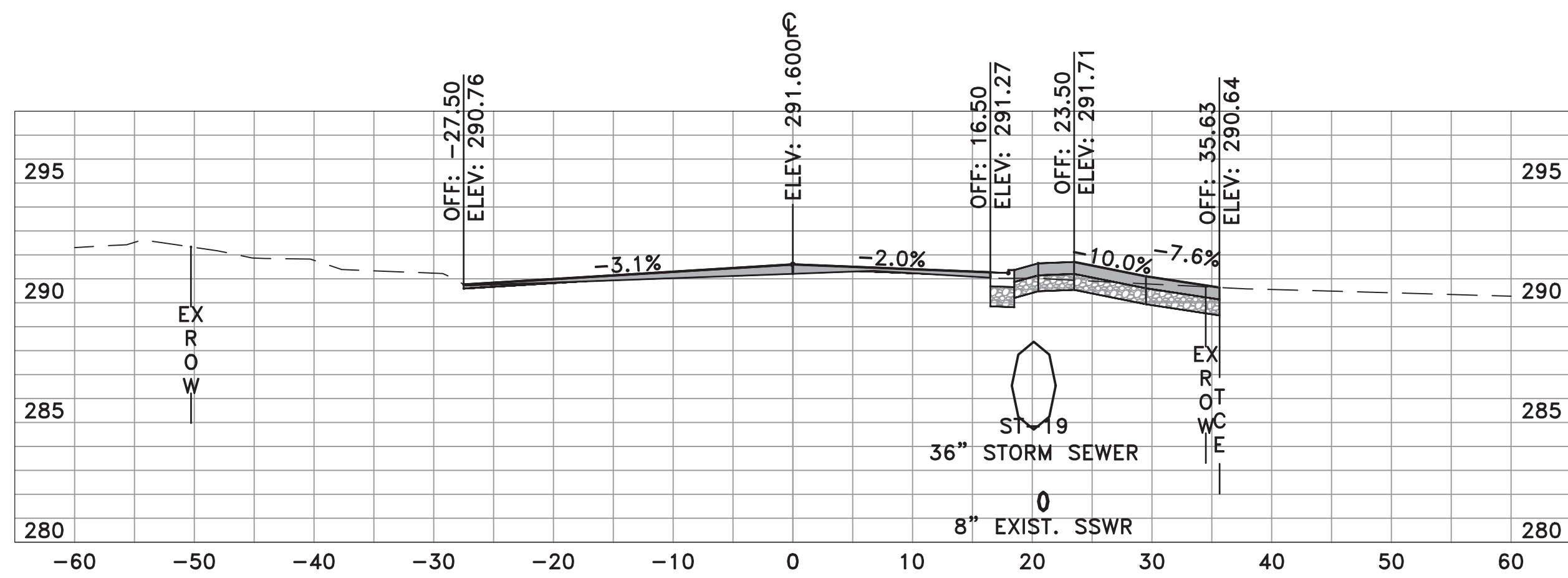
CHICOT RD
26+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 5.08 | 16.72 | 1059.61 |
| FILL | 11.96 | 11.89 | 2341.09 |



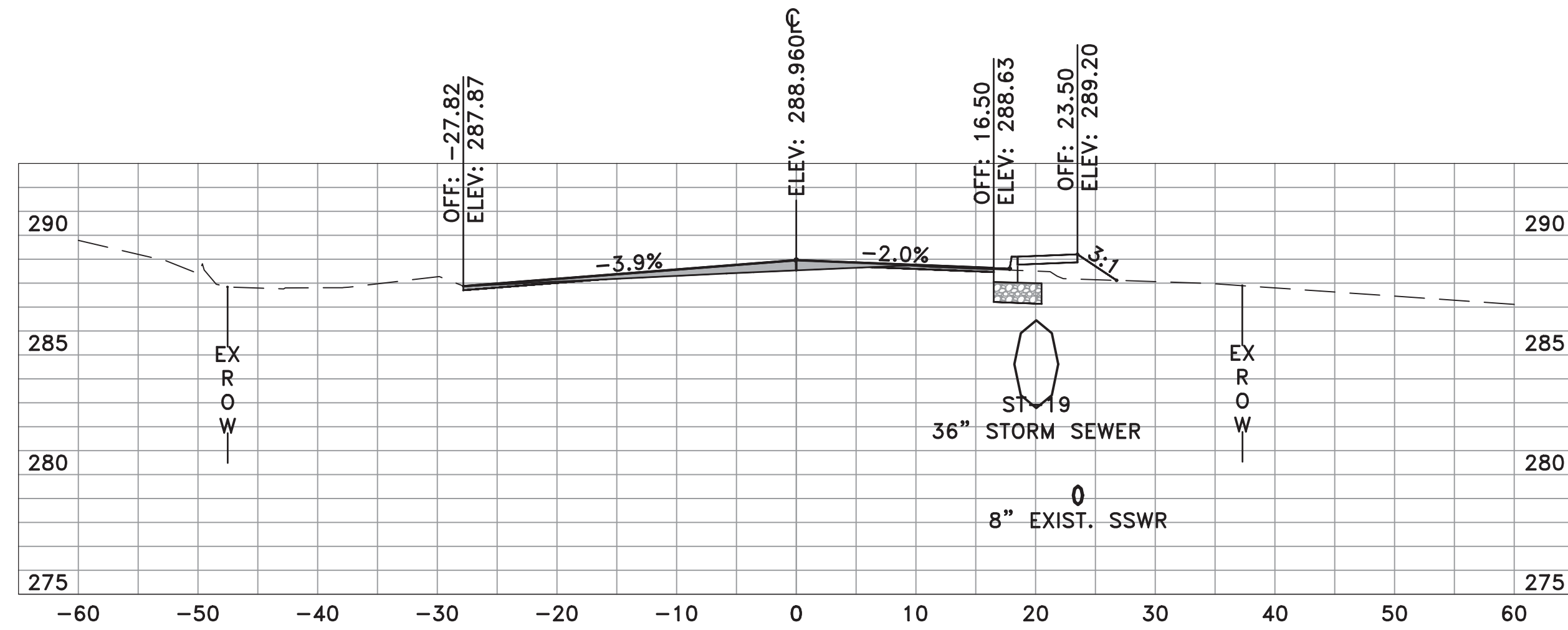
CHICOT RD
27+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 13.81 | 19.64 | 1103.29 |
| FILL | 5.46 | 10.80 | 2390.28 |



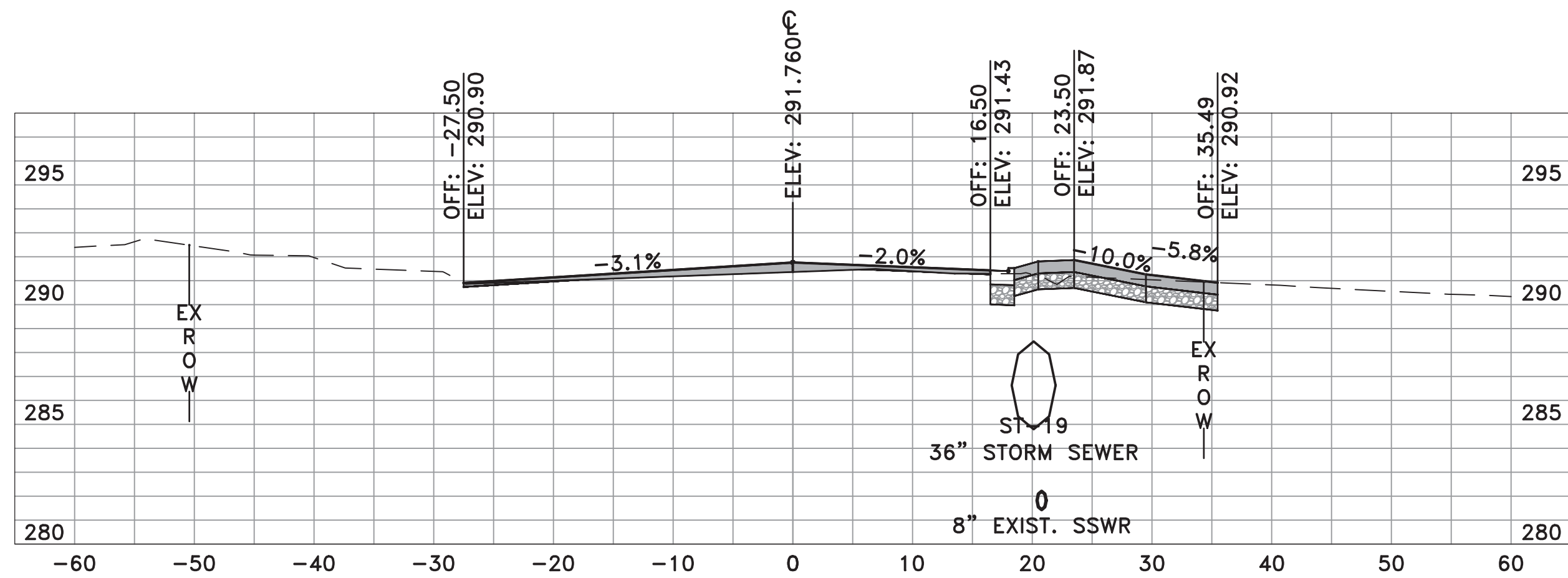
CHICOT RD
25+56.73

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 15.78 | 4.04 | 1042.89 |
| FILL | 2.87 | 0.70 | 2329.20 |



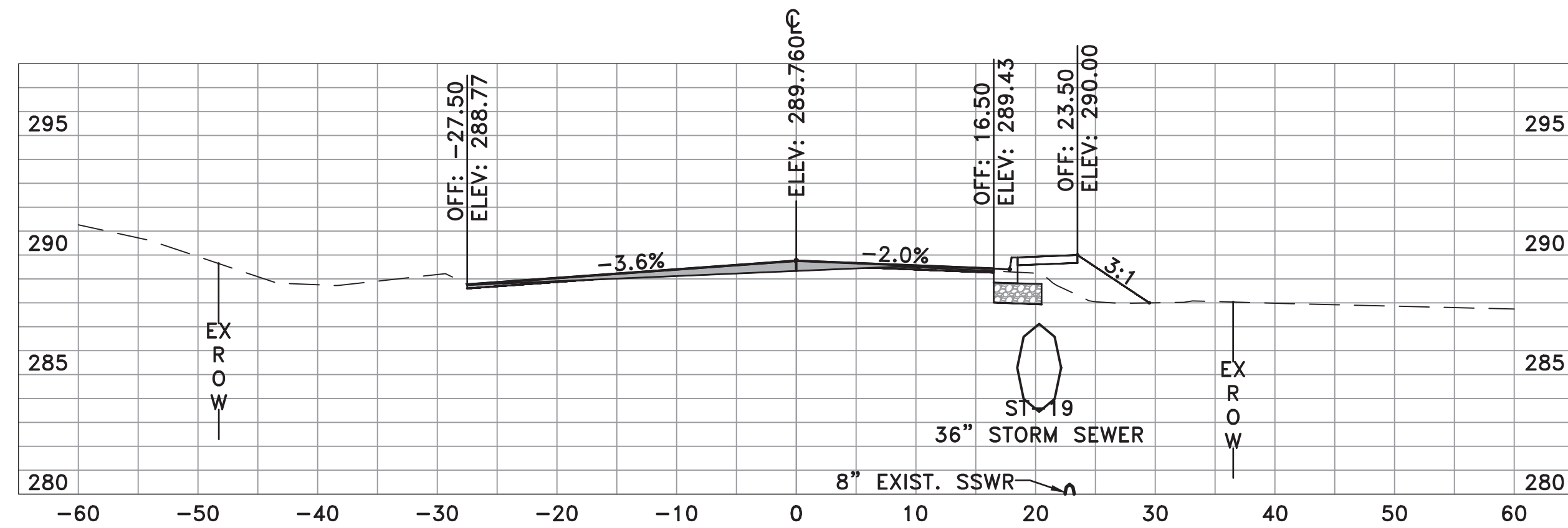
CHICOT RD
27+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|------|--------|-------------------|
| CUT | 7.40 | 13.09 | 1083.65 |
| FILL | 6.21 | 16.53 | 2379.47 |



CHICOT RD
25+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 16.66 | 20.81 | 1038.85 |
| FILL | 2.78 | 14.54 | 2328.50 |



CHICOT RD
26+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 6.74 | 10.95 | 1070.56 |
| FILL | 11.64 | 21.86 | 2362.94 |

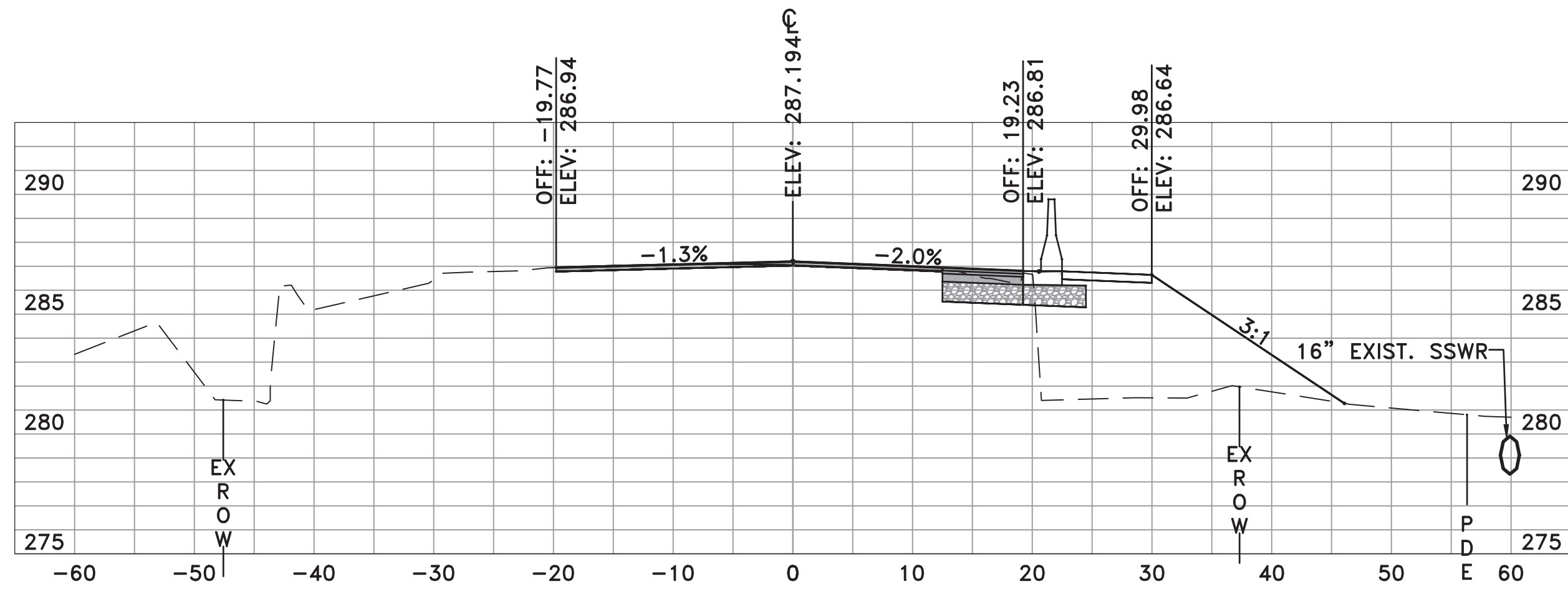
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (11)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

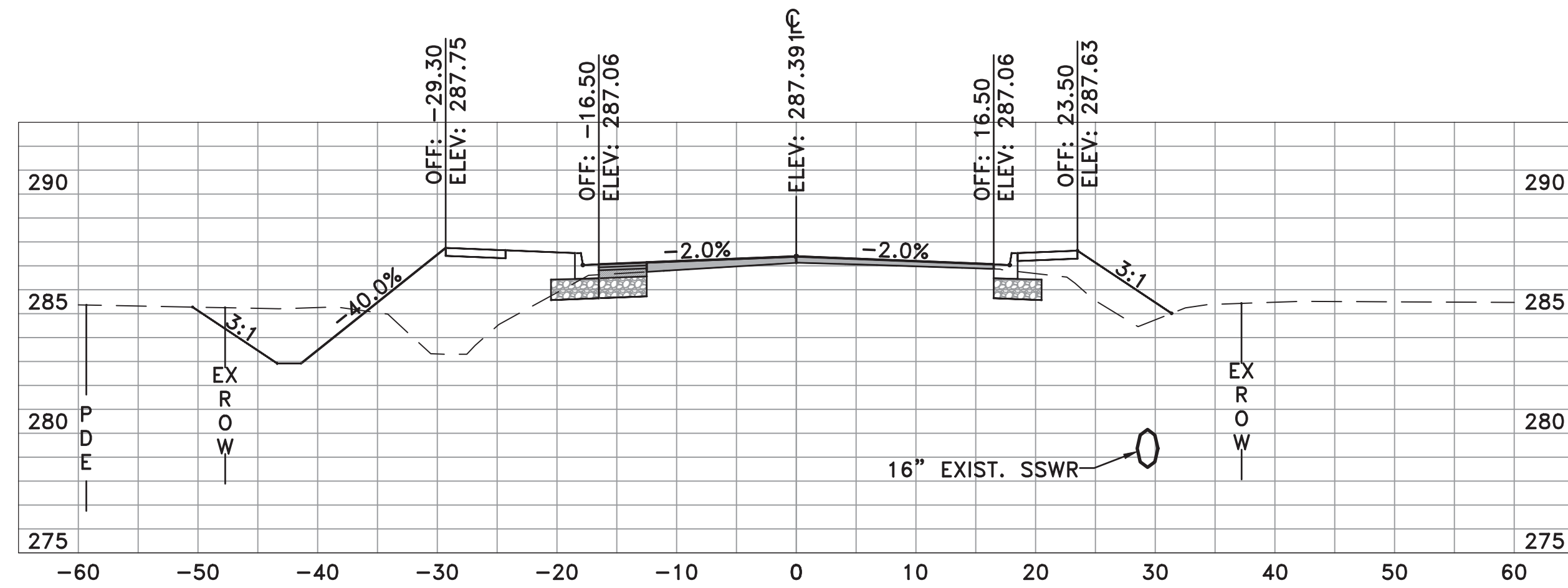


DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X11



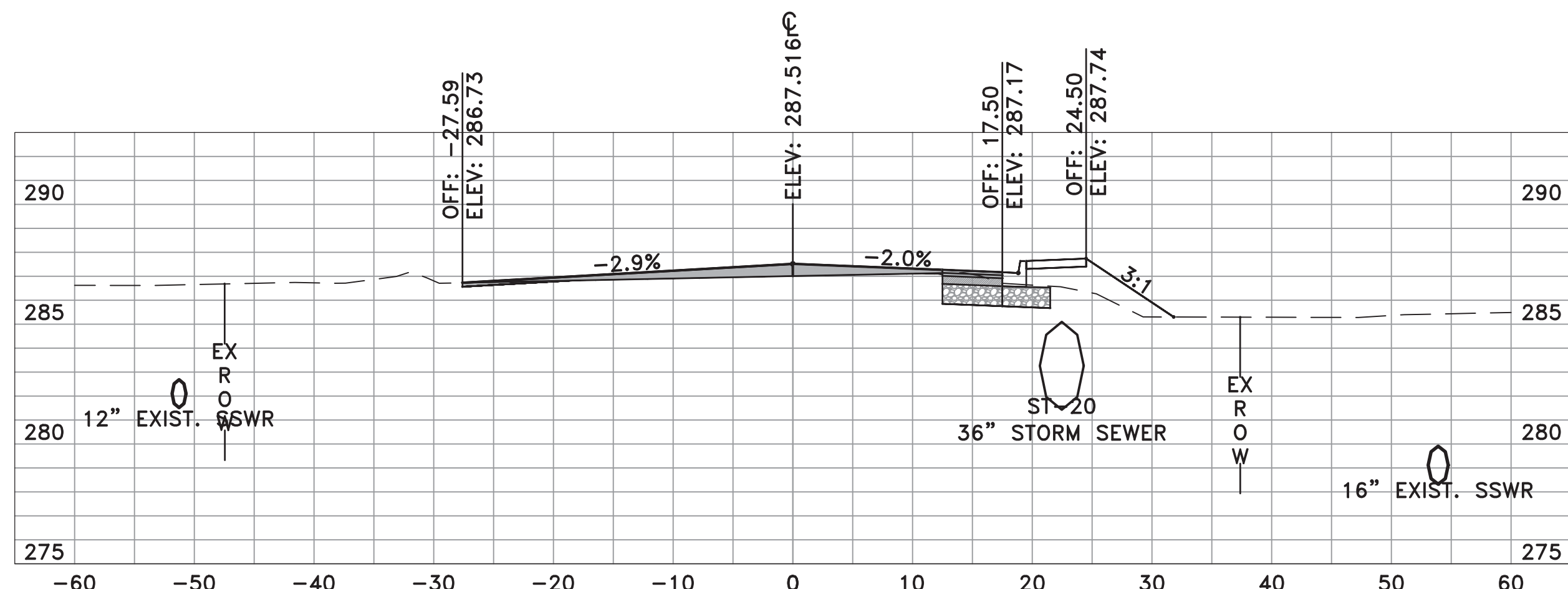
CHICOT RD
28+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 12.28 | 21.20 | 1147.37 |
| FILL | 79.51 | 89.42 | 2500.10 |



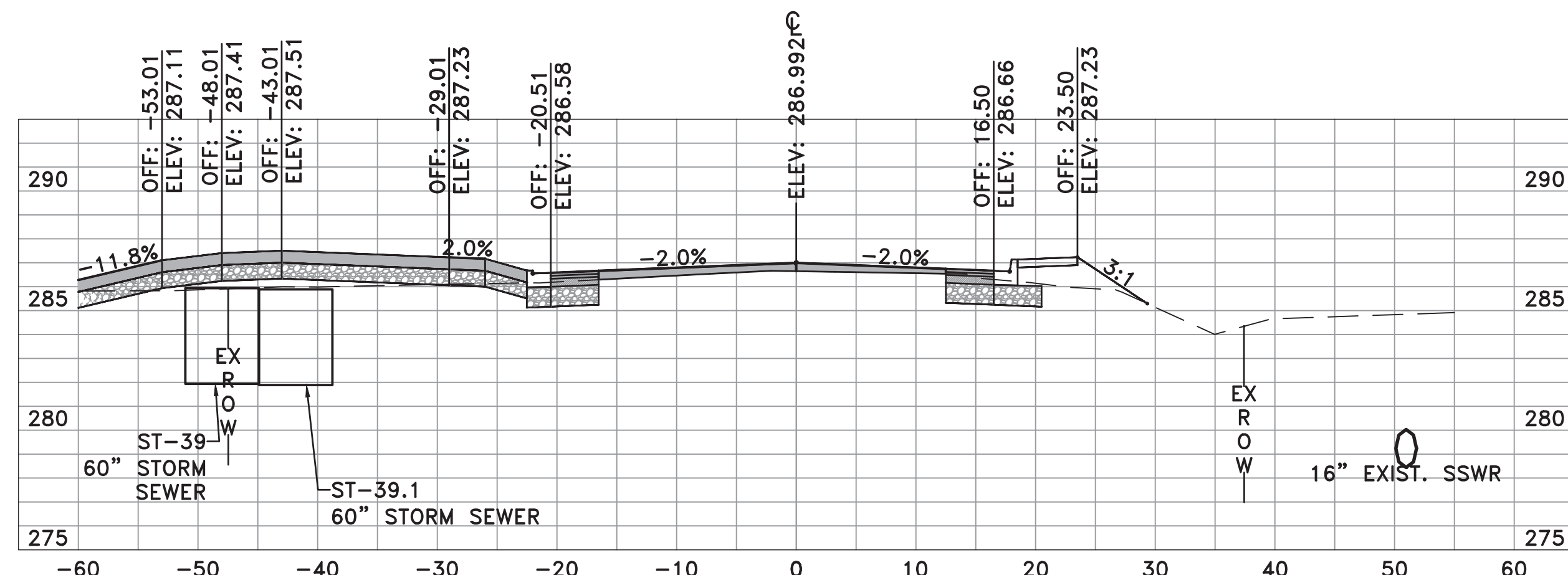
CHICOT RD
30+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 30.62 | 52.29 | 1234.96 |
| FILL | 56.54 | 76.62 | 3240.02 |



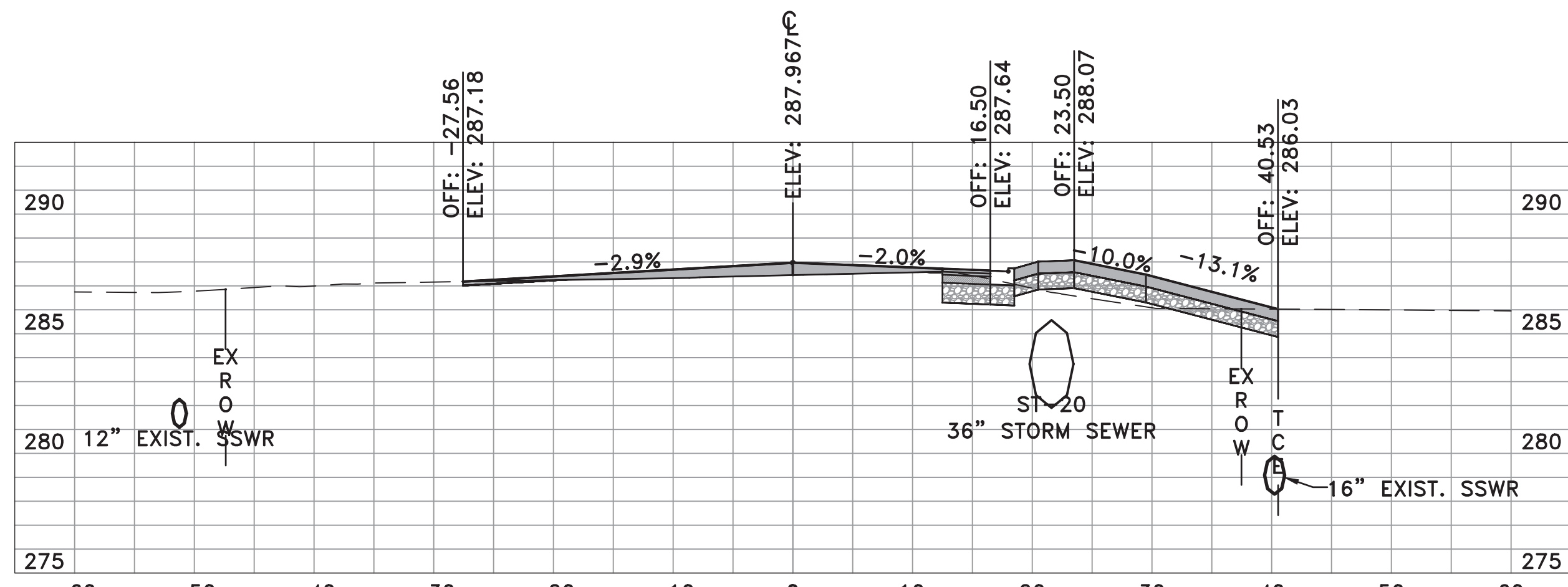
CHICOT RD
28+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 10.62 | 16.82 | 1126.17 |
| FILL | 17.07 | 17.44 | 2410.68 |



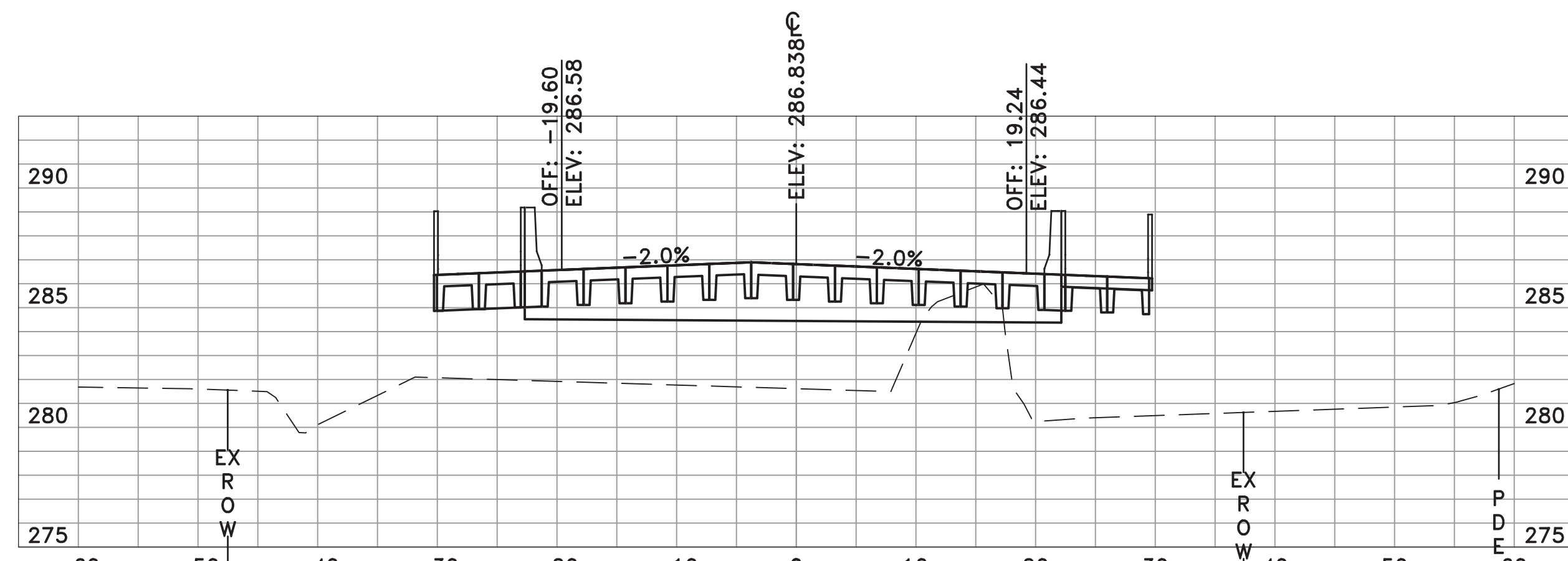
CHICOT RD
29+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 25.85 | 23.93 | 1182.68 |
| FILL | 26.21 | 306.97 | 3163.40 |



CHICOT RD
27+62.07

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 13.32 | 6.06 | 1109.35 |
| FILL | 7.76 | 2.96 | 2393.23 |



CHICOT RD
29+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|--------|--------|-------------------|
| CUT | 0.00 | 11.37 | 1158.74 |
| FILL | 305.33 | 356.33 | 2856.43 |

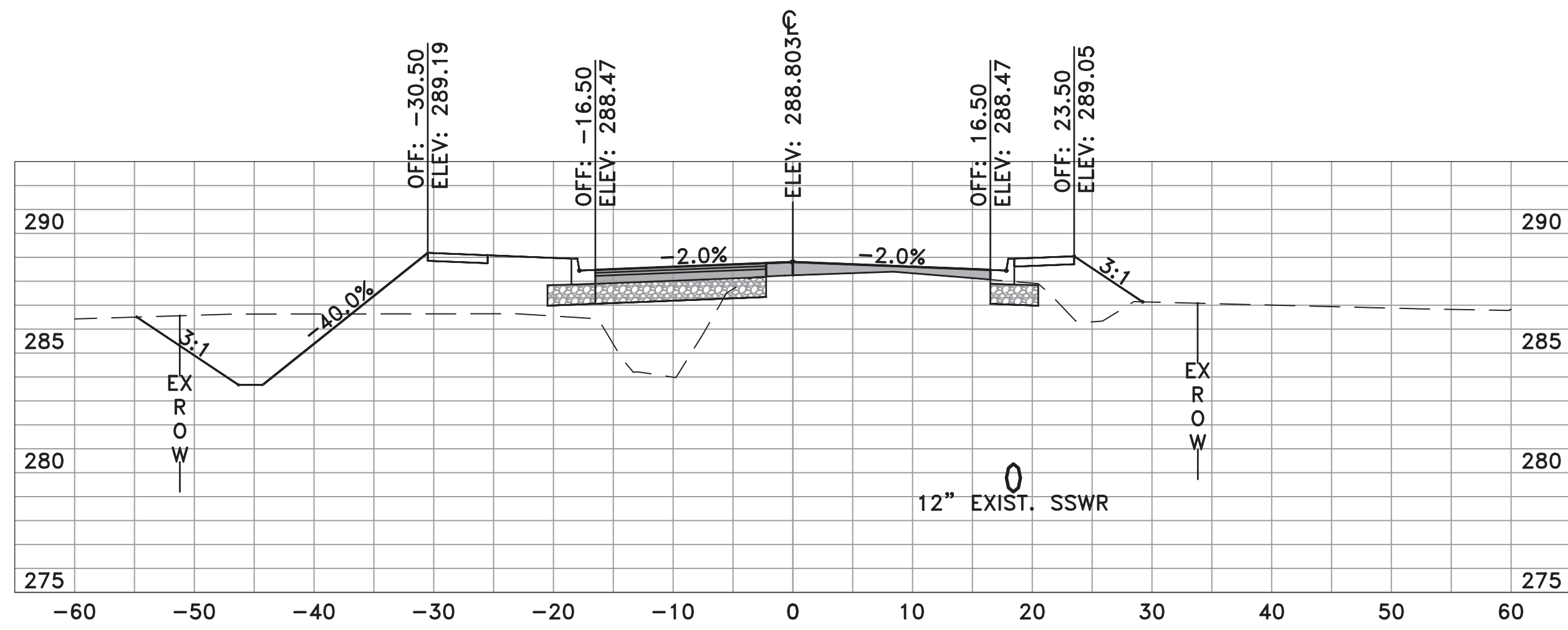
REVISIONS DATE

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (12)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

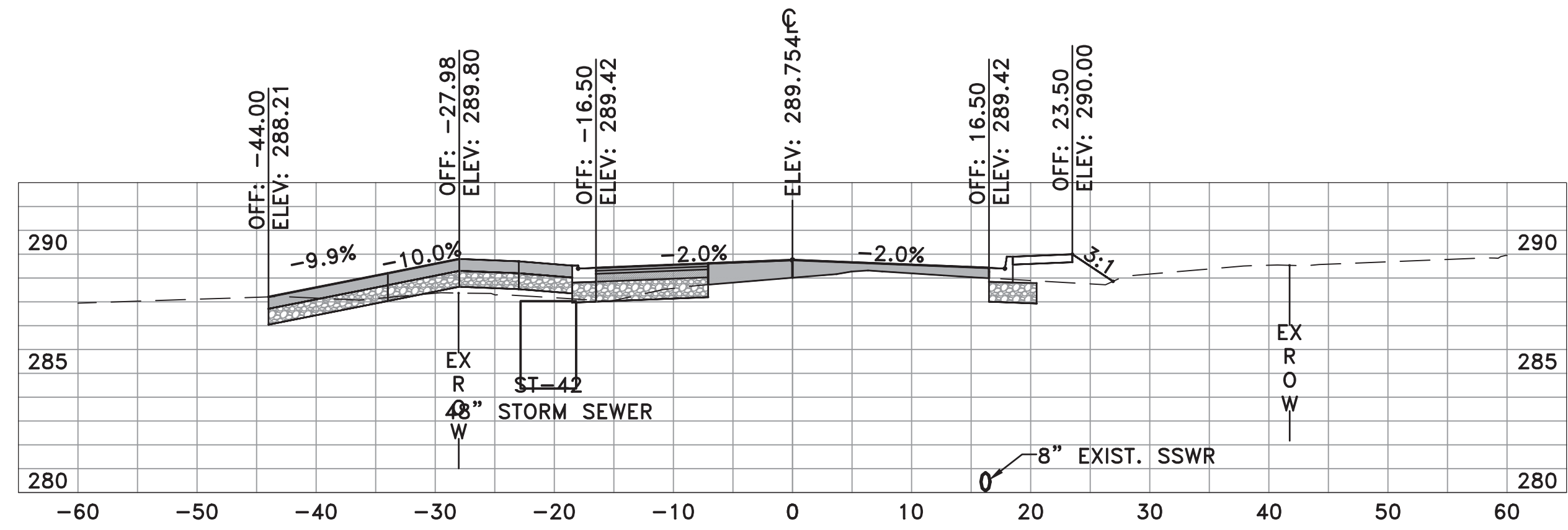


DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X12



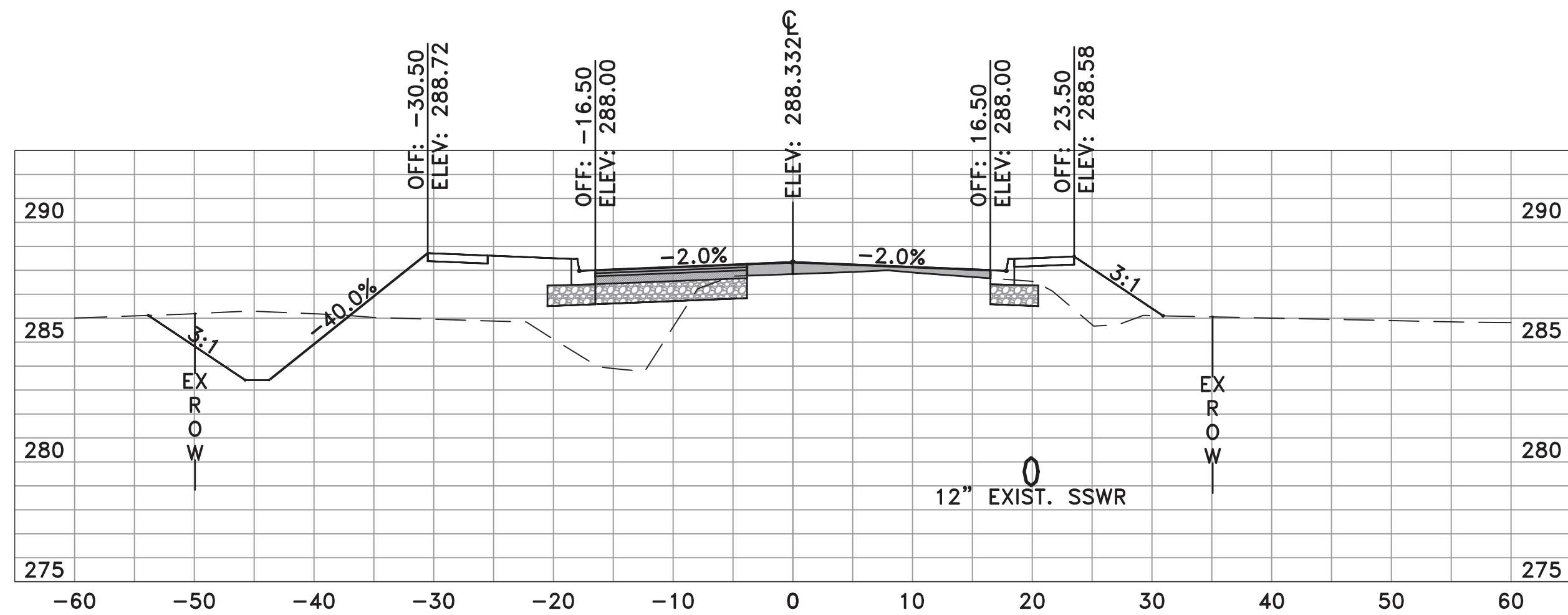
CHICOT RD
31+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 35.94 | 65.21 | 1410.39 |
| FILL | 73.60 | 139.94 | 3634.63 |



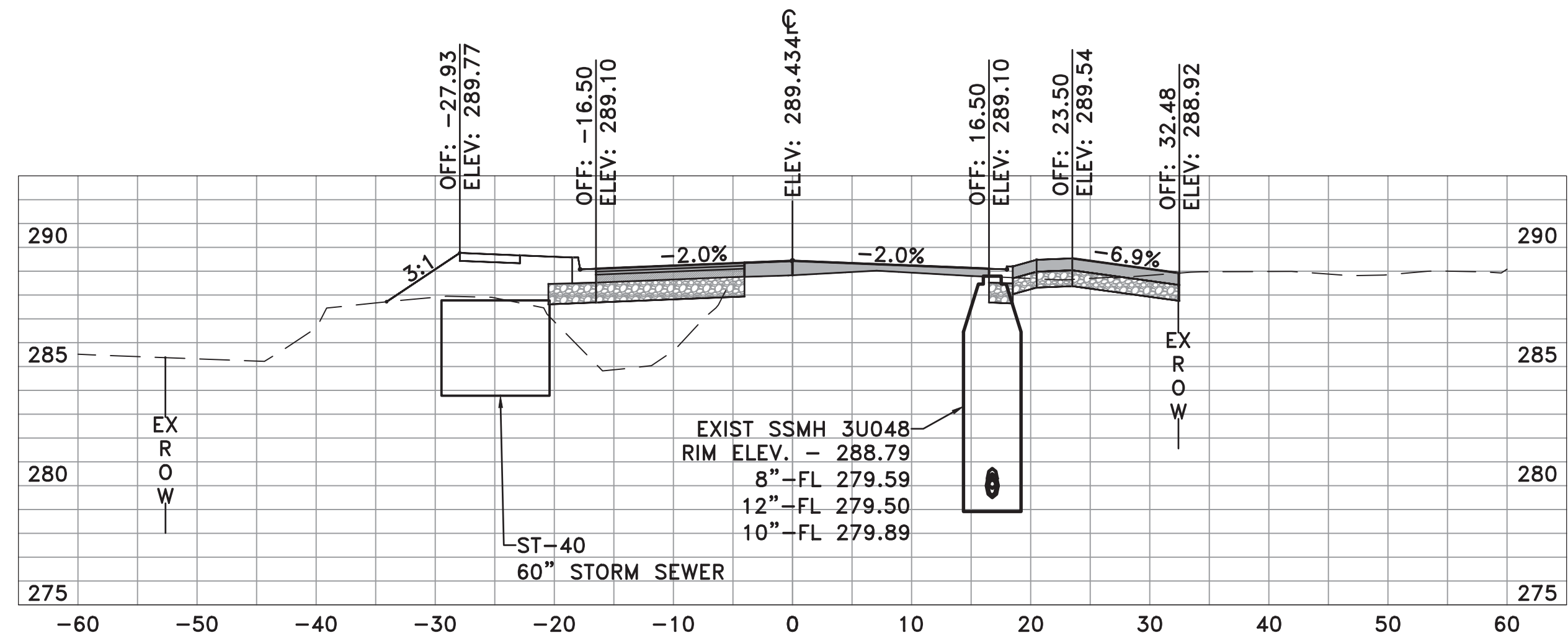
CHICOT RD
32+32.80

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 24.43 | 20.47 | 1487.78 |
| FILL | 18.49 | 34.94 | 3815.66 |



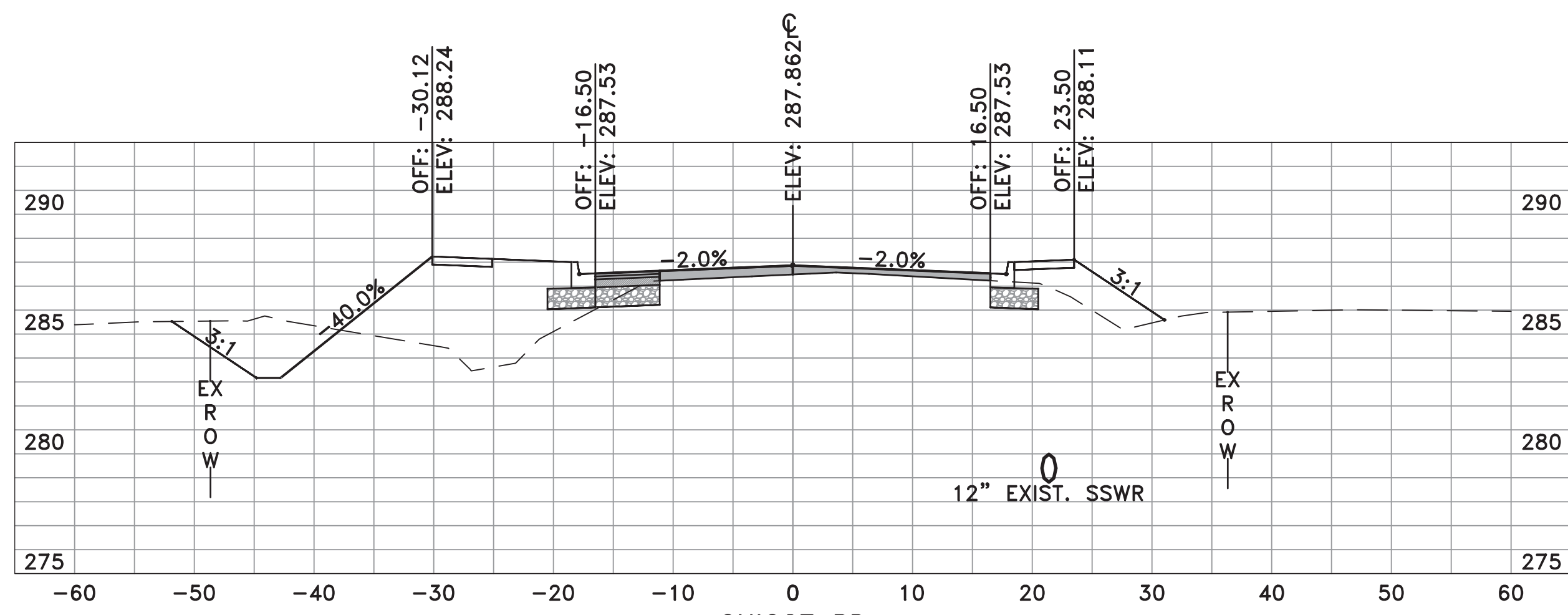
CHICOT RD
31+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 34.48 | 56.89 | 1345.18 |
| FILL | 77.54 | 137.05 | 3494.68 |



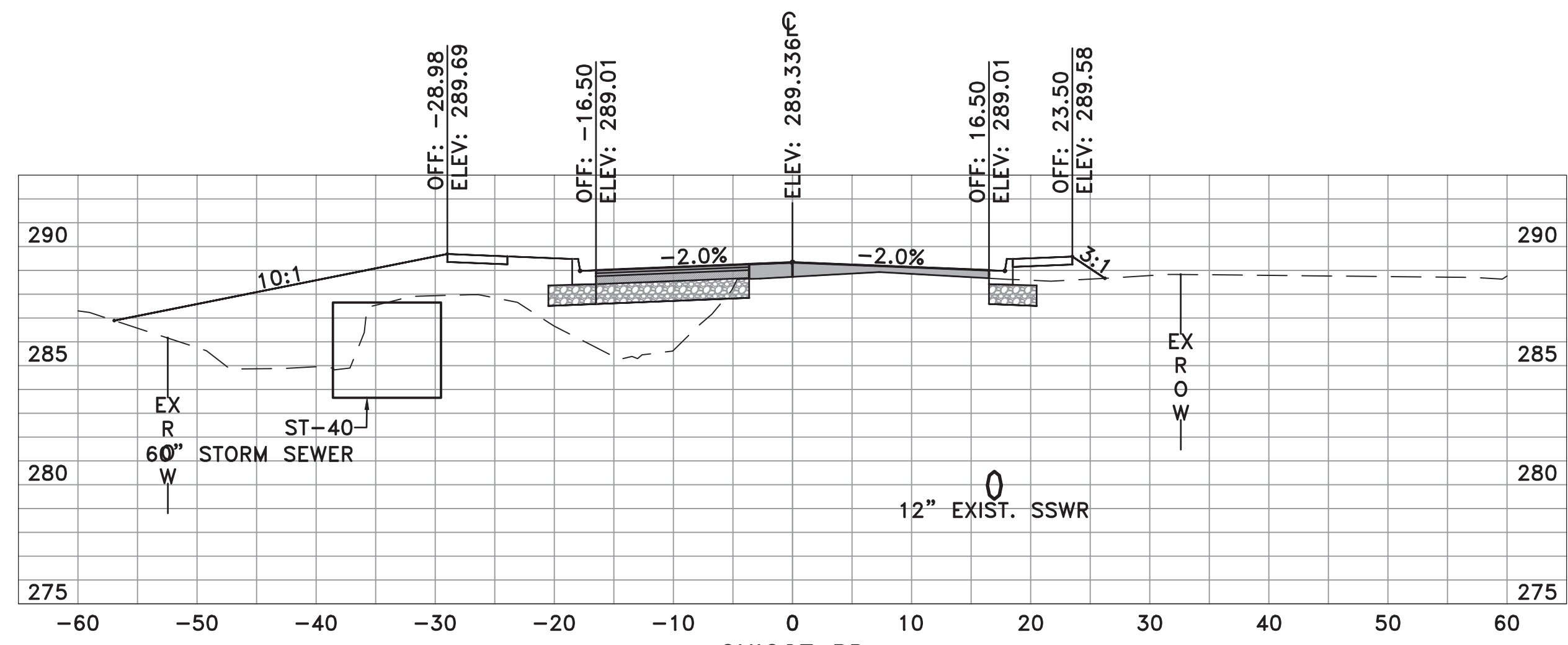
CHICOT RD
32+08.04

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 20.21 | 5.87 | 1467.31 |
| FILL | 57.70 | 18.20 | 3780.72 |



CHICOT RD
30+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 26.96 | 53.32 | 1288.28 |
| FILL | 70.48 | 117.61 | 3357.63 |



CHICOT RD
32+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 19.20 | 51.06 | 1461.44 |
| FILL | 64.53 | 127.89 | 3762.52 |

| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (13)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X13

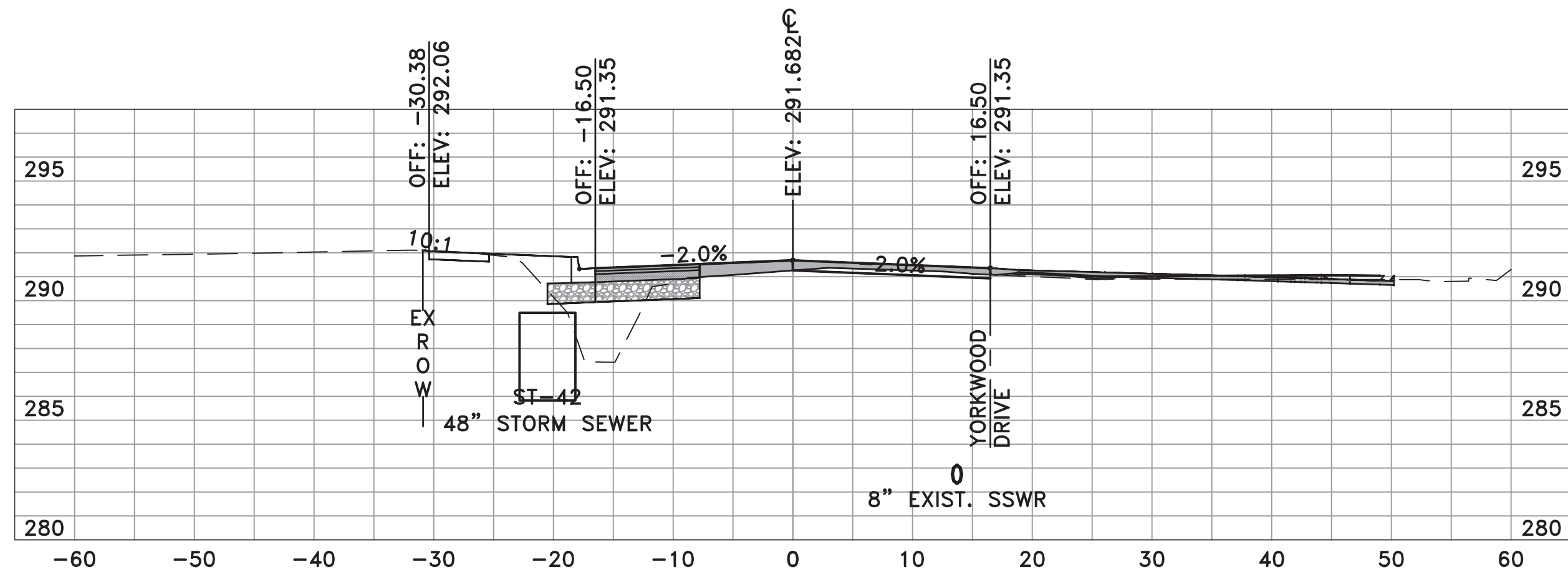
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (14)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

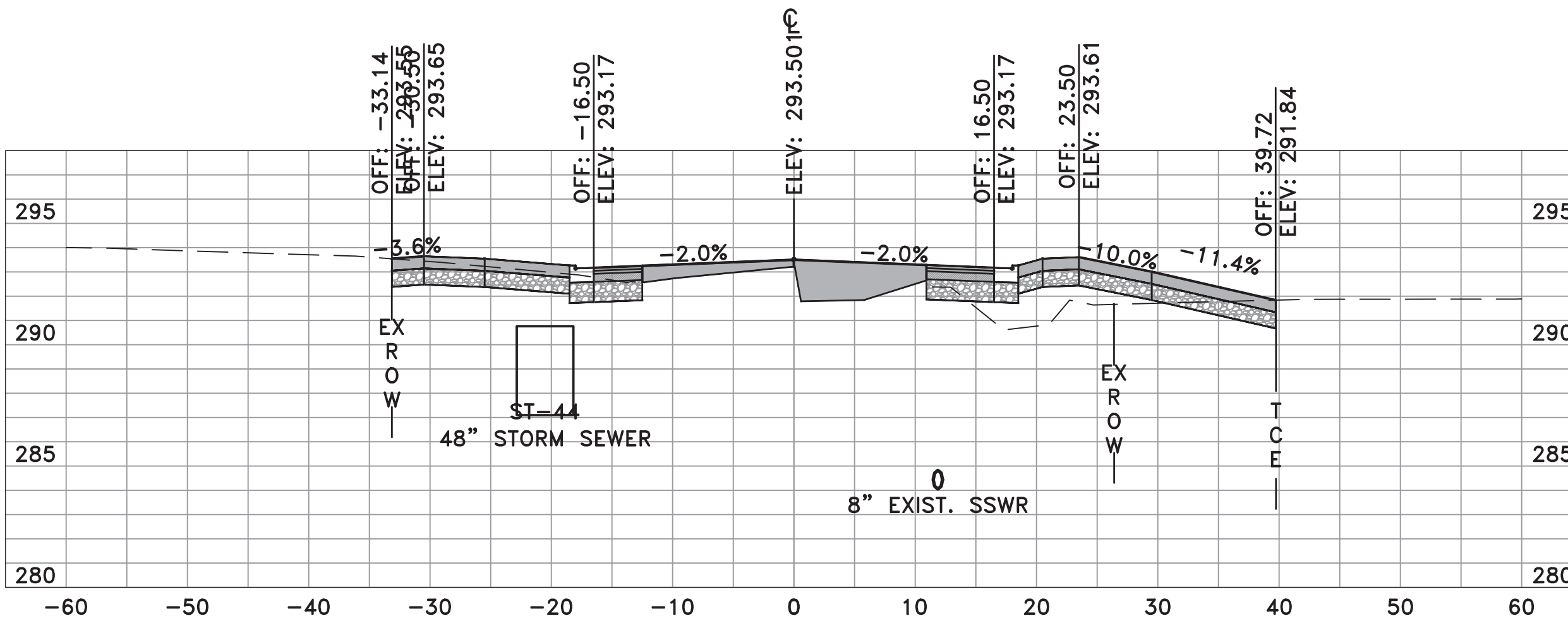


DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X14



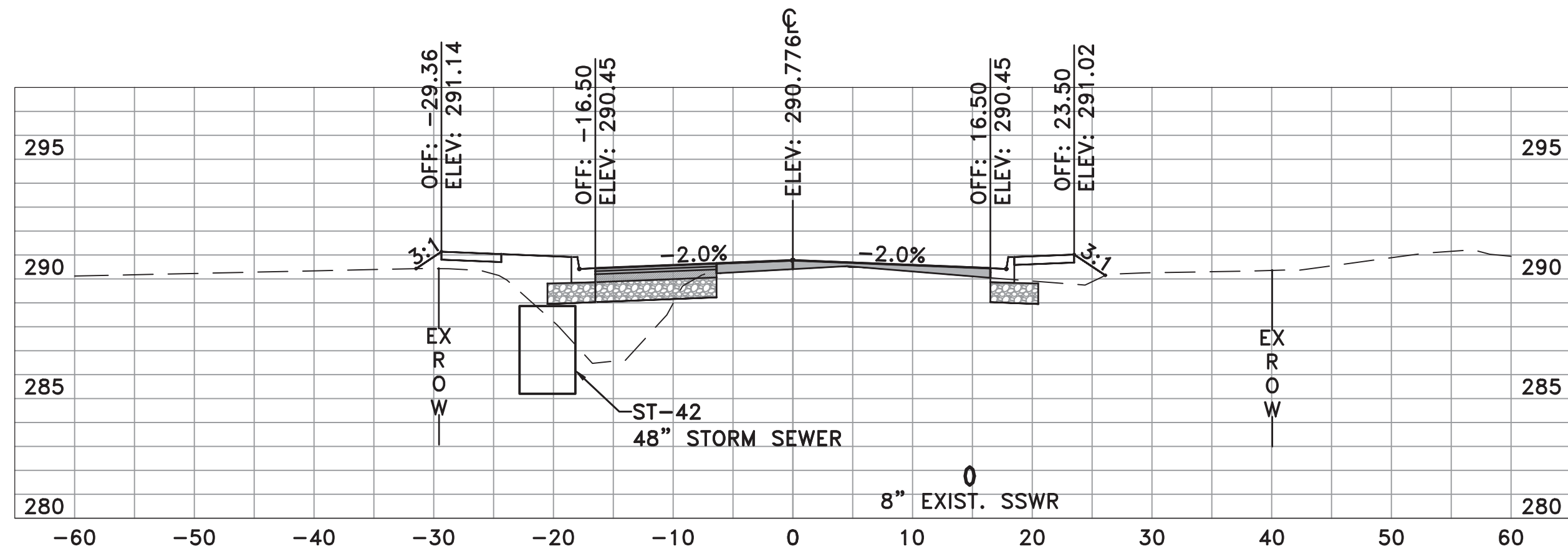
CHICOT RD
33+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 9.60 | 17.52 | 1543.86 |
| FILL | 18.03 | 49.94 | 3960.63 |



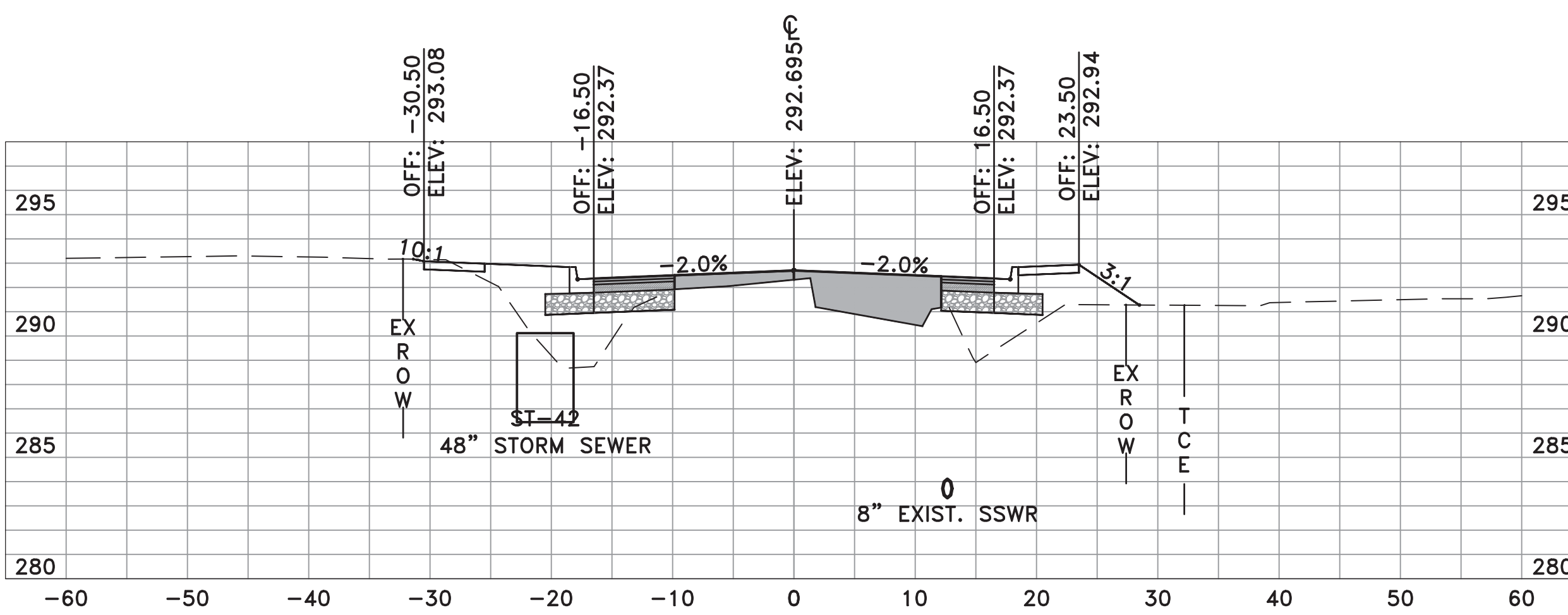
CHICOT RD
34+36.86

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 32.39 | 27.13 | 1624.87 |
| FILL | 28.49 | 59.27 | 4080.00 |



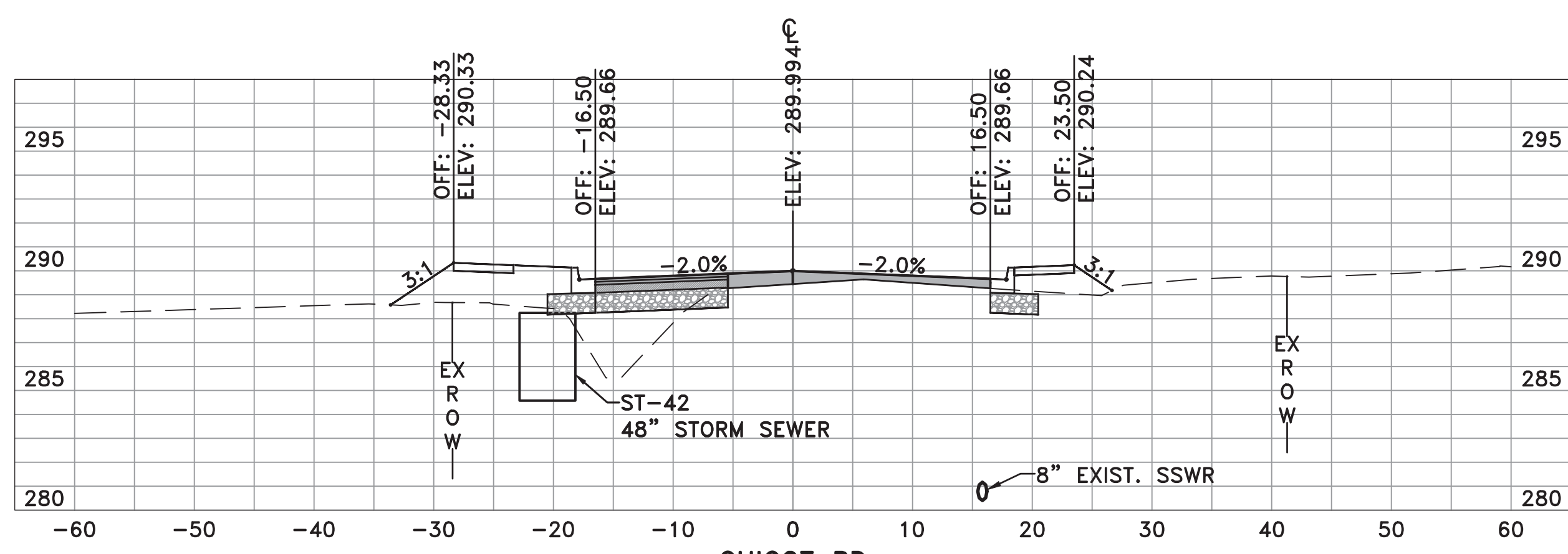
CHICOT RD
33+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 9.32 | 25.11 | 1526.34 |
| FILL | 35.91 | 74.84 | 3910.70 |



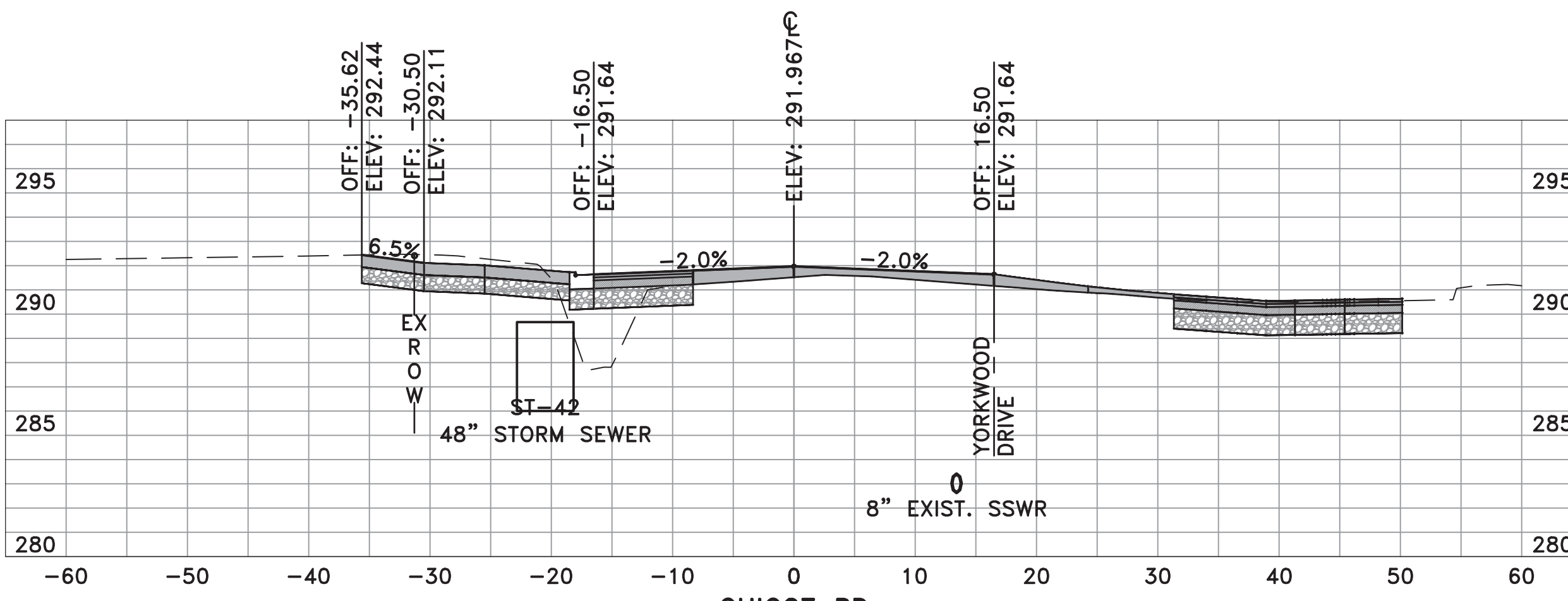
CHICOT RD
34+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 7.35 | 37.76 | 1597.74 |
| FILL | 58.34 | 50.30 | 4020.73 |



CHICOT RD
32+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 17.80 | 13.45 | 1501.23 |
| FILL | 44.92 | 20.20 | 3835.85 |



CHICOT RD
33+64.56

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 50.18 | 16.11 | 1559.97 |
| FILL | 18.30 | 9.79 | 3970.43 |

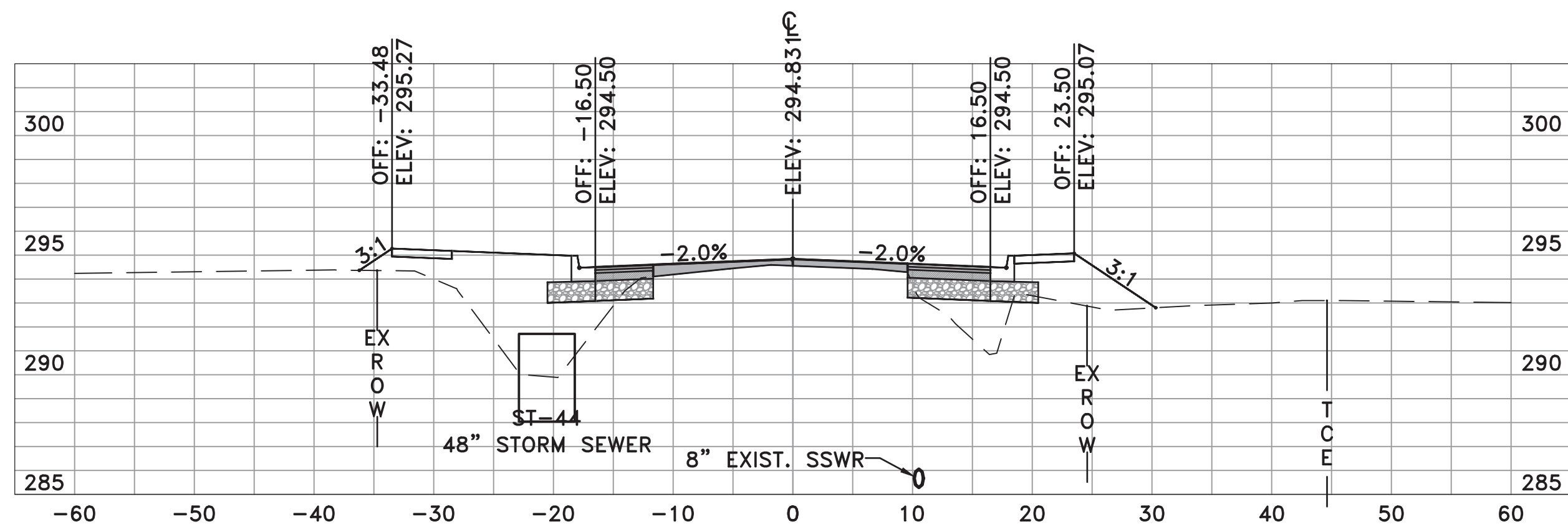
| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (15)

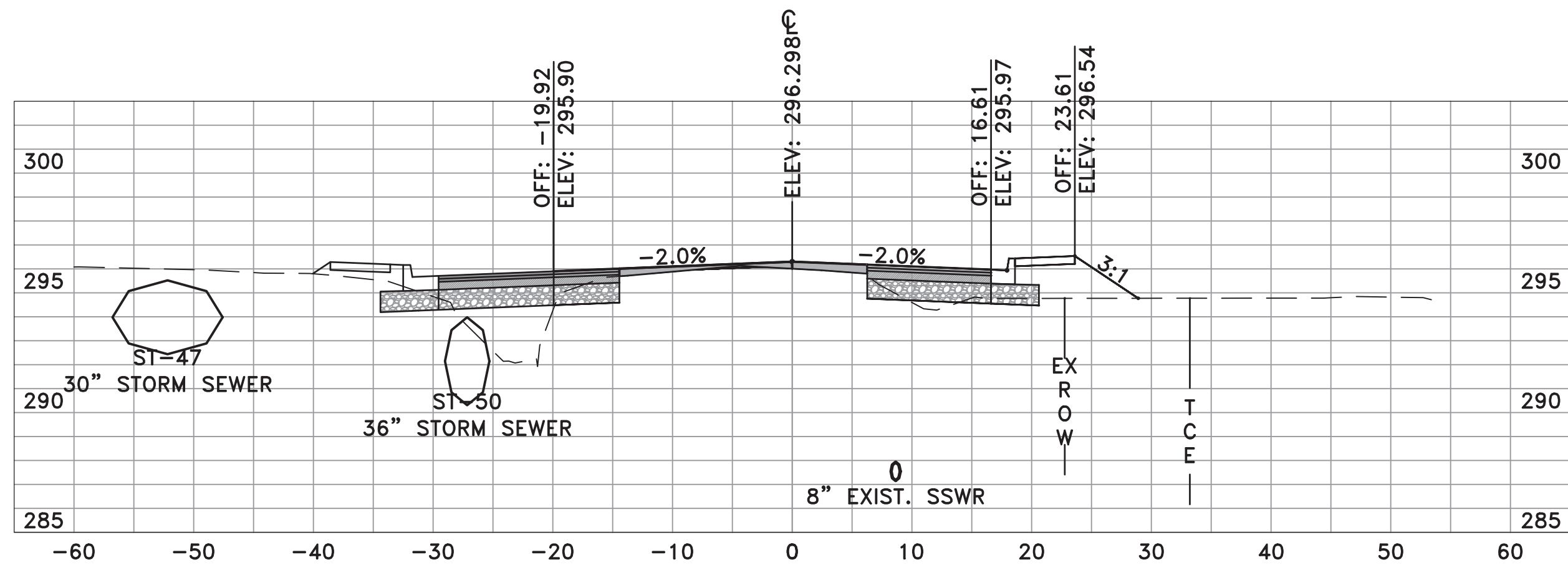
DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



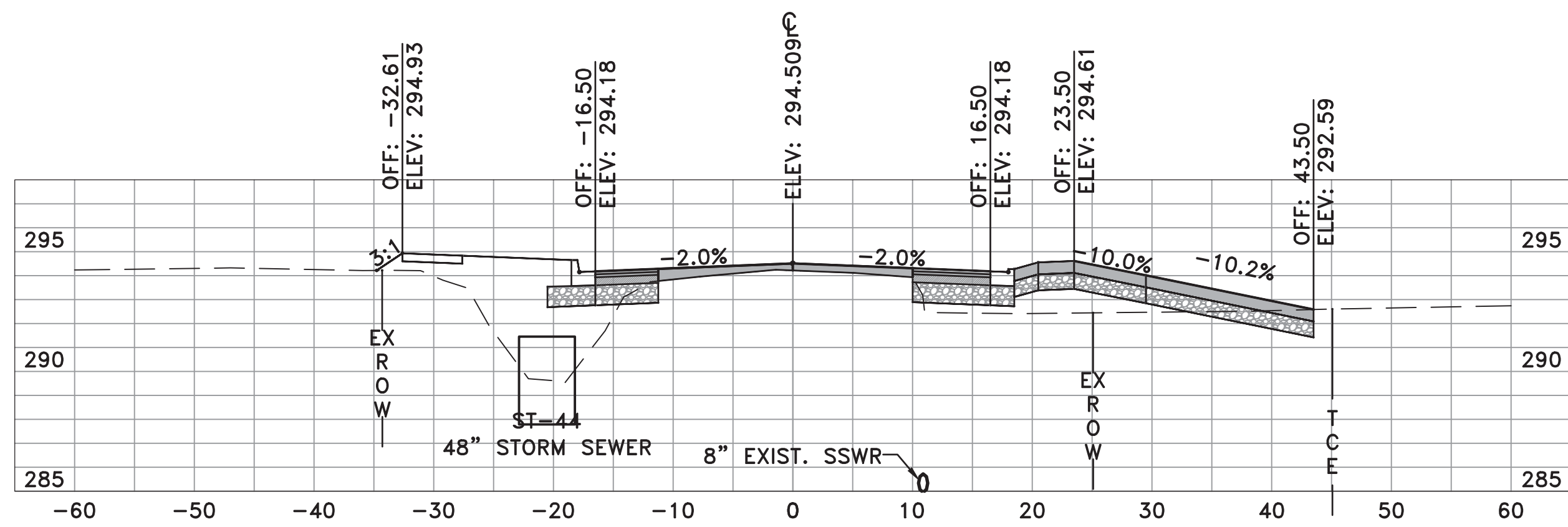
DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X15



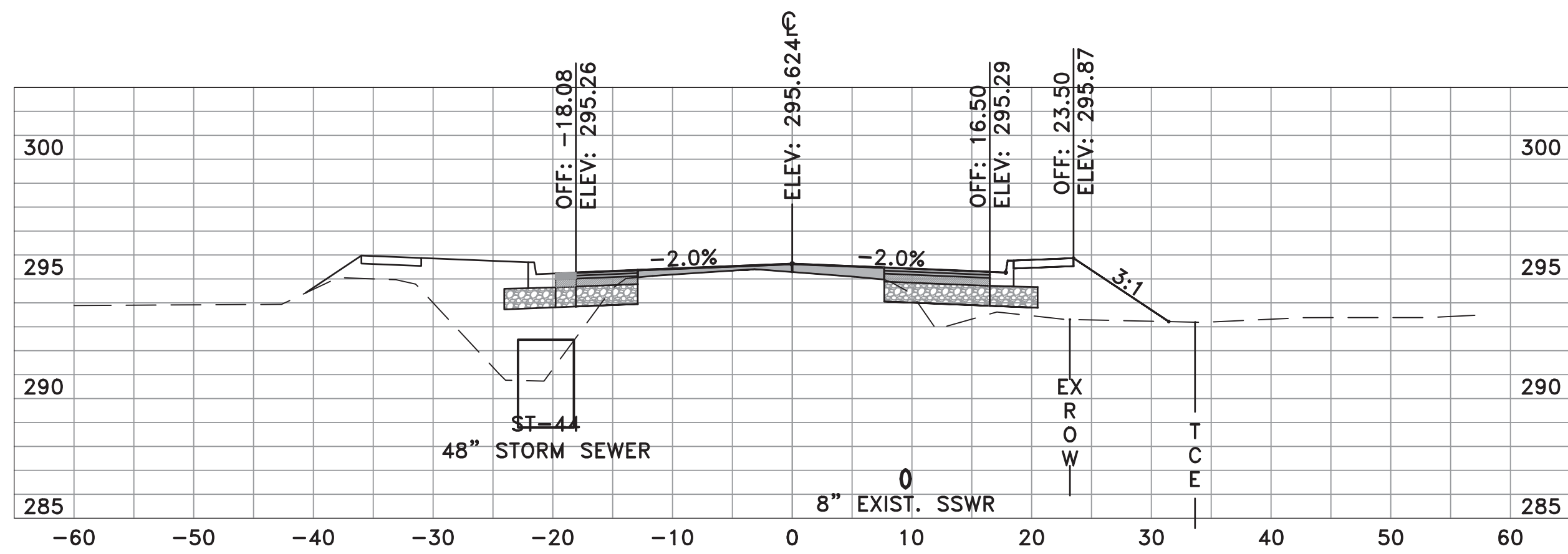
| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 13.29 | 7.54 | 1659.60 |
| FILL | 69.75 | 39.74 | 4205.34 |



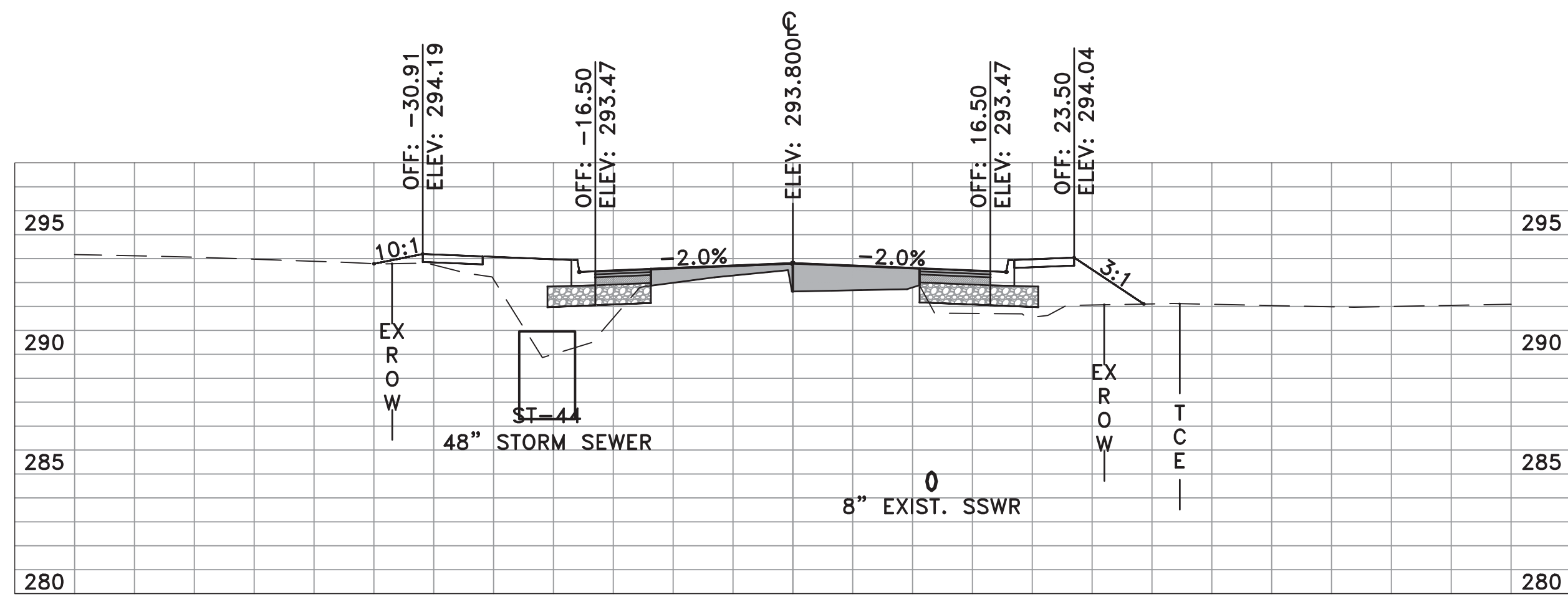
| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 7.62 | 14.74 | 1691.38 |
| FILL | 11.50 | 34.49 | 4350.17 |



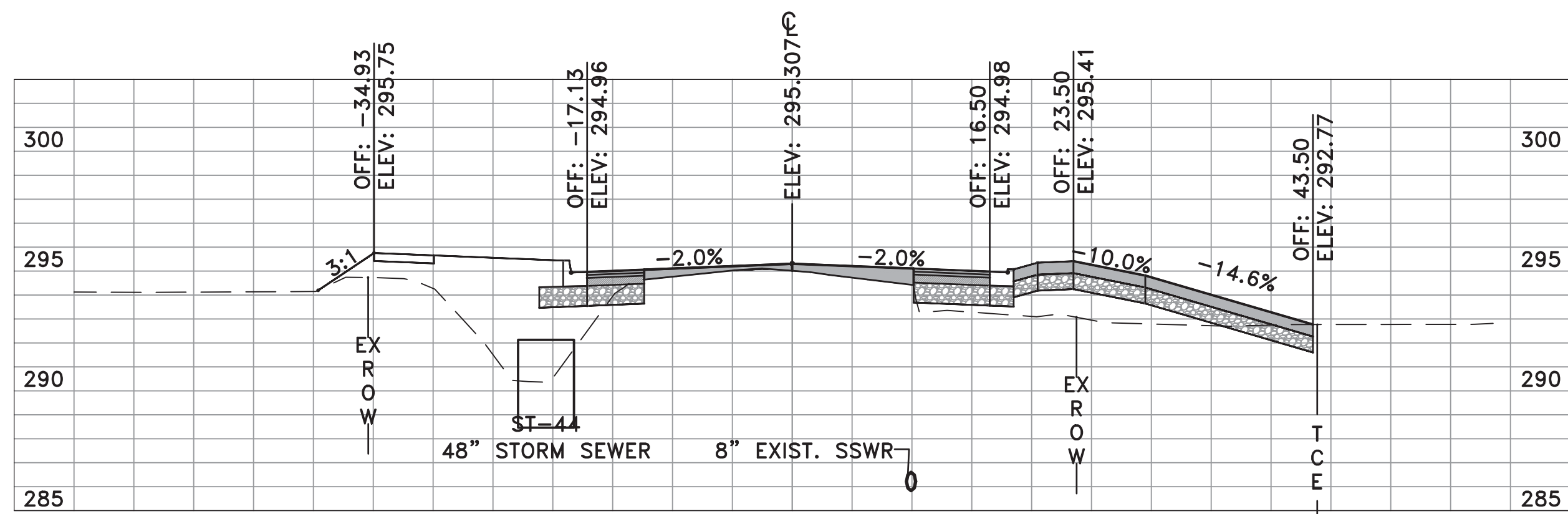
| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 10.80 | 15.70 | 1652.06 |
| FILL | 57.14 | 66.27 | 4165.61 |



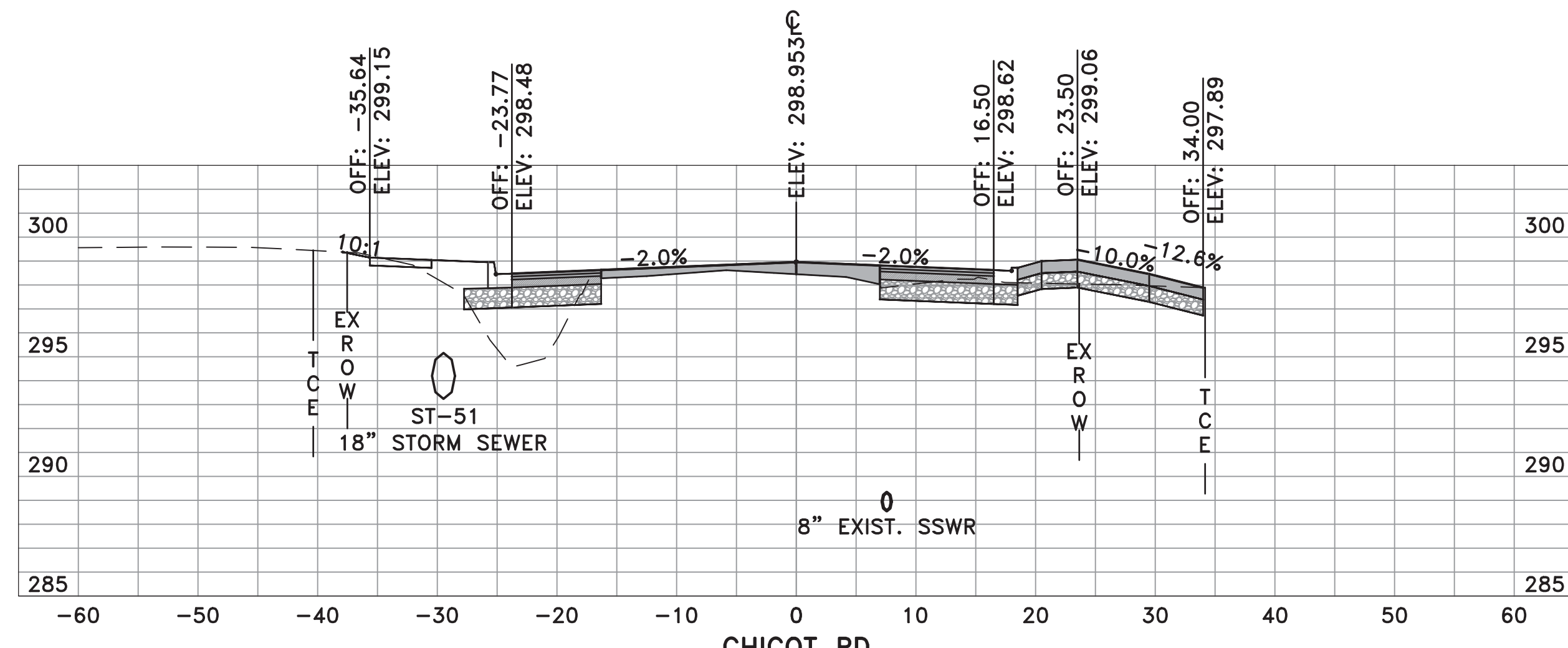
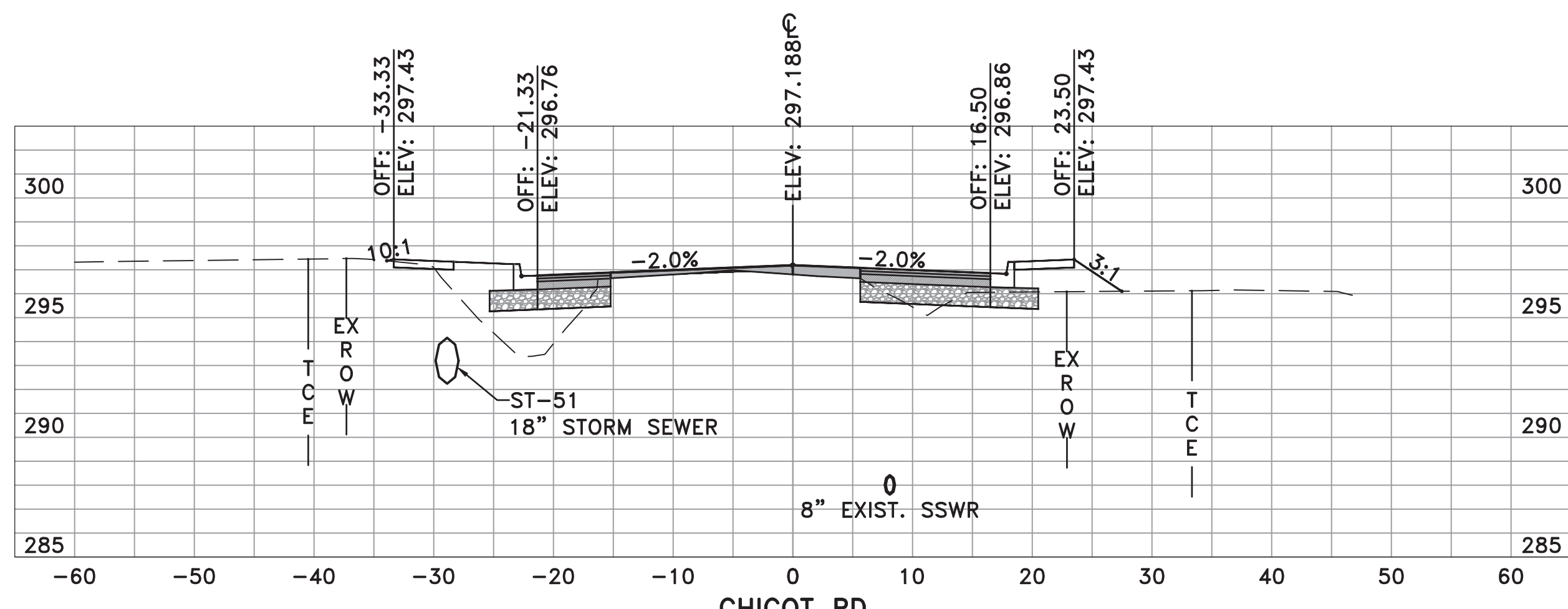
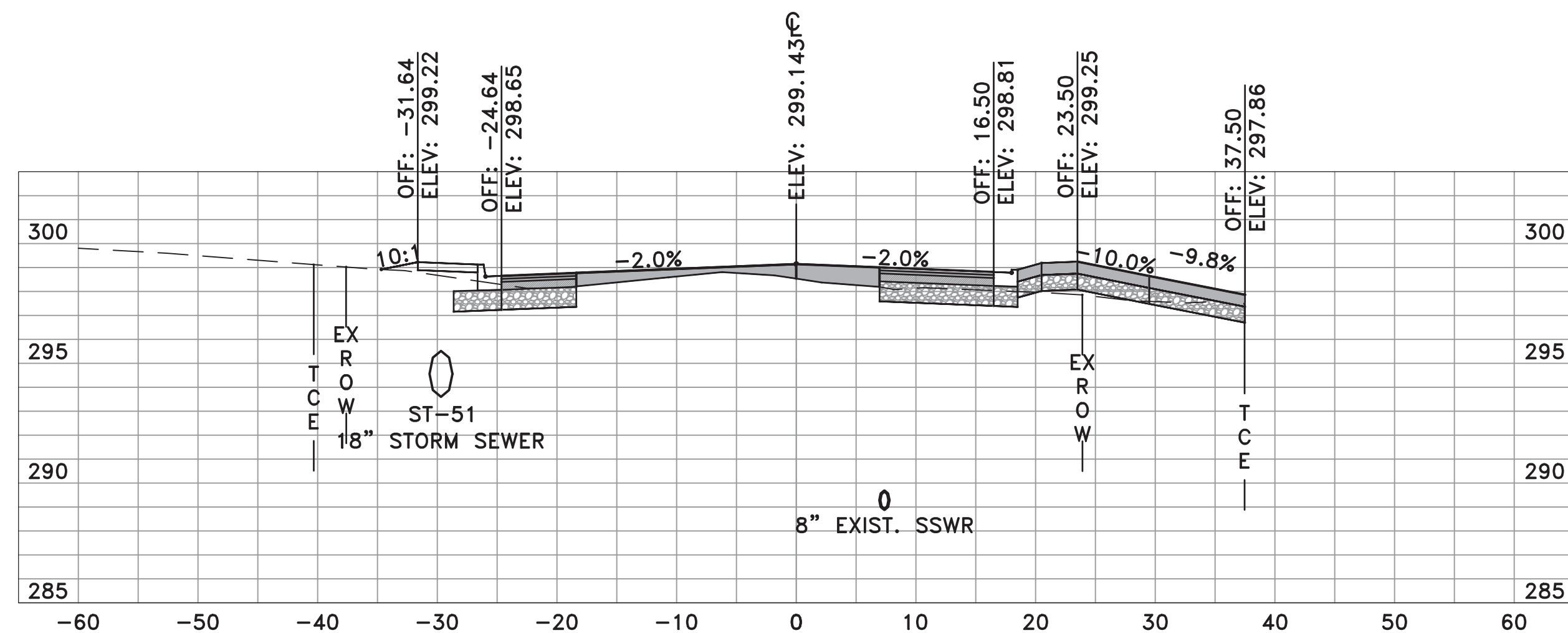
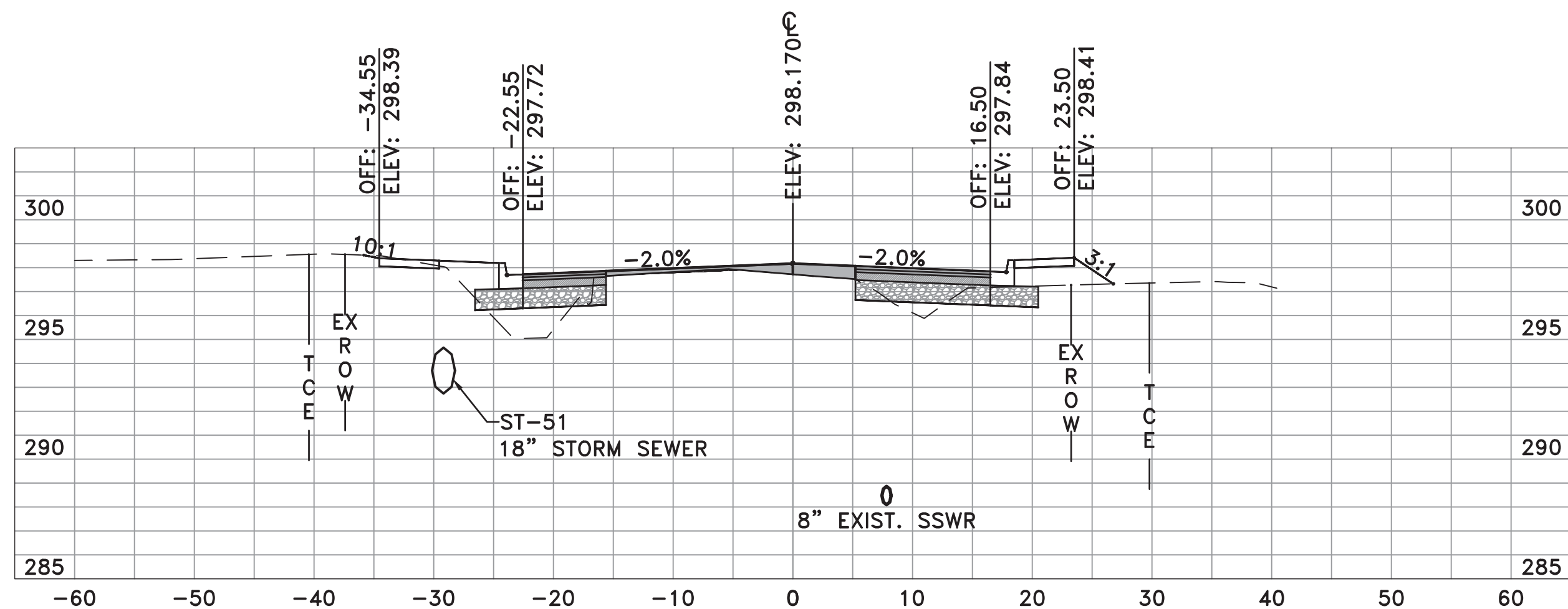
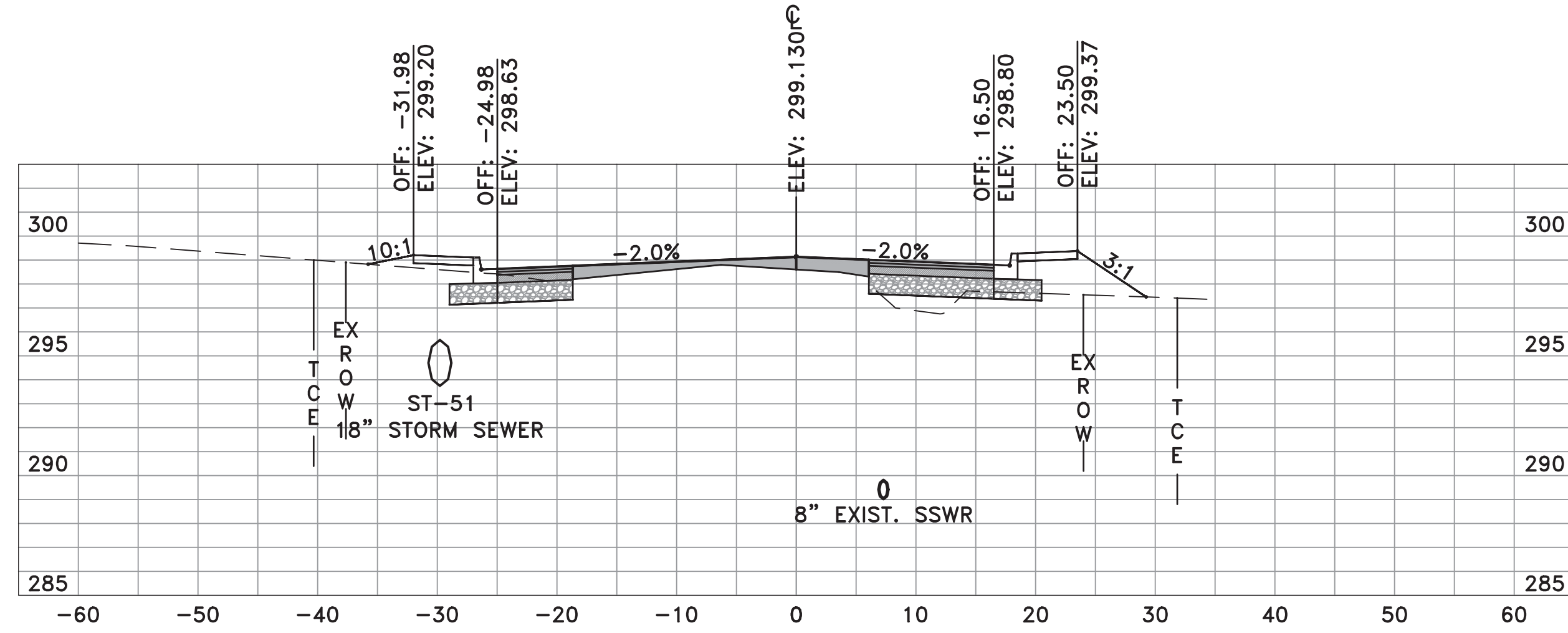
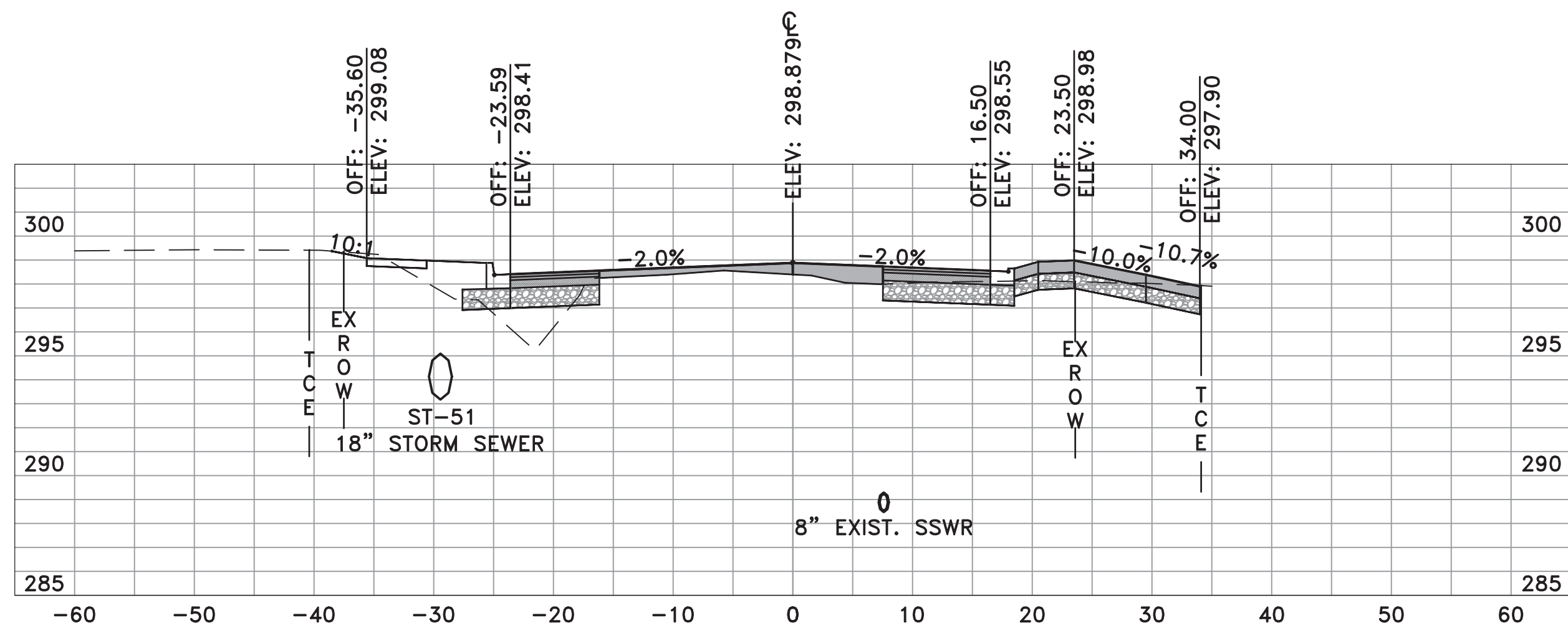
| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 8.31 | 6.29 | 1676.63 |
| FILL | 25.75 | 38.10 | 4315.68 |



| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 14.82 | 11.49 | 1636.36 |
| FILL | 51.00 | 19.34 | 4099.34 |



| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 7.27 | 10.74 | 1670.34 |
| FILL | 68.60 | 72.24 | 4277.58 |



| REVISIONS | DATE |
|-----------|------|
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (16)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X16

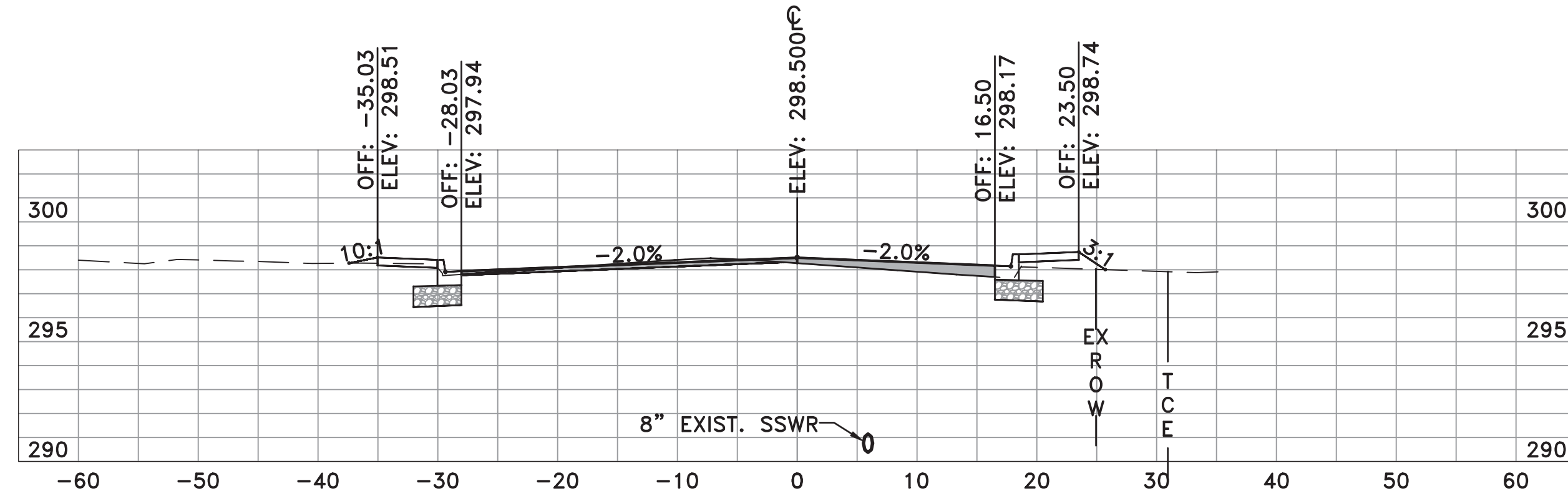
| REVISIONS | DATE |
|-----------|------|
| | |
| | |

CITY OF LITTLE ROCK, ARKANSAS
CHICOT ROAD IMPROVEMENTS
CROSS SECTIONS (17)

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

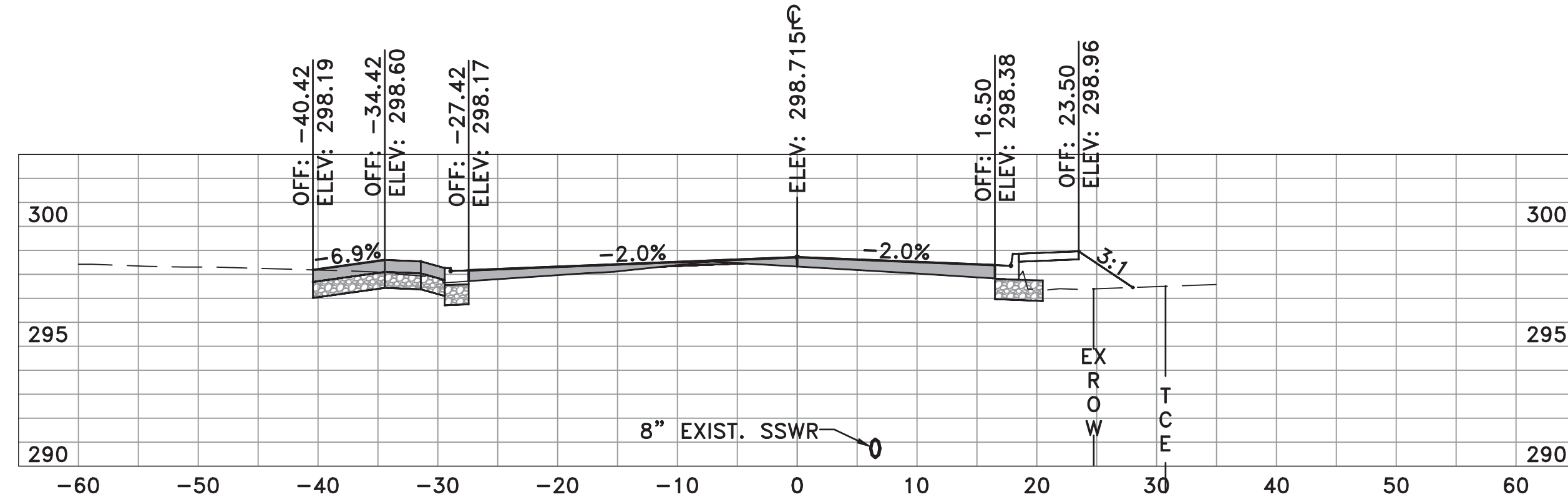


DRAWN BY
KLL
DESIGNED
COF
CHECKED
BOL
DATE
1-28-2020
SCALE
H: 1"=10'
V: 1"=5'
PROJECT NO.
CLR 07-17-ST-357
SHEET NO.
X17



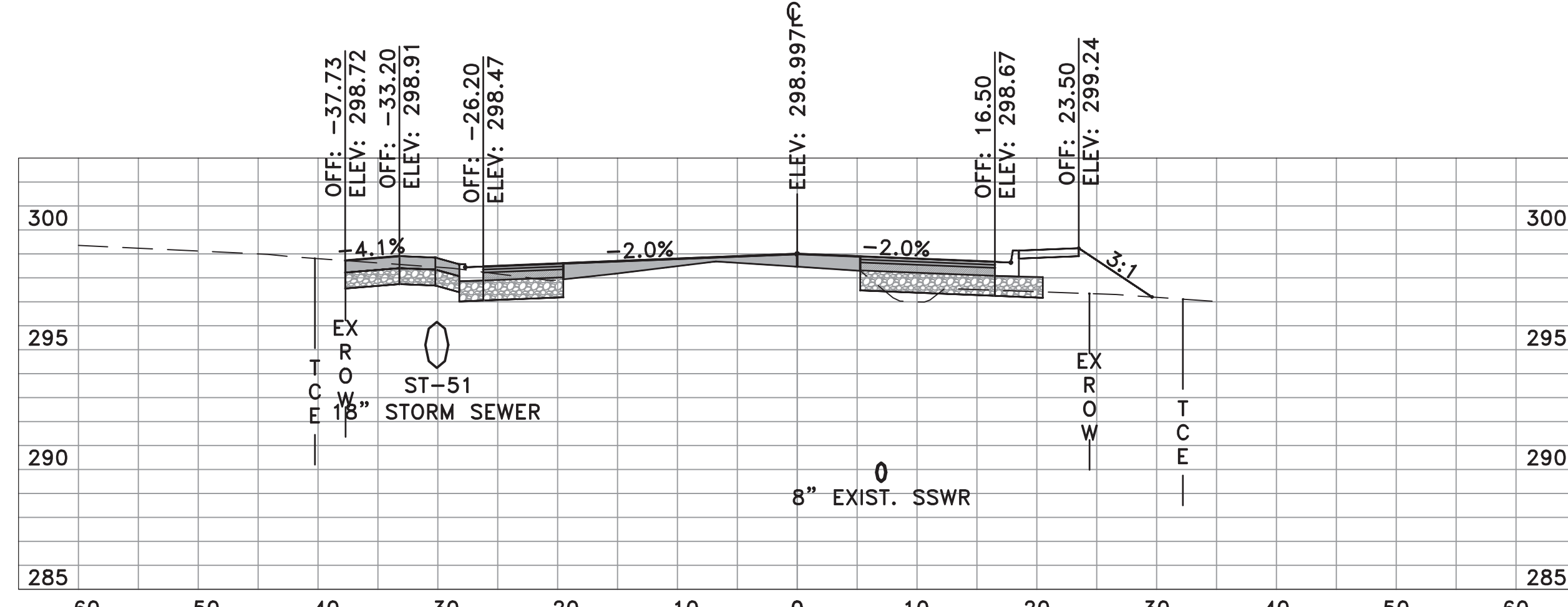
CHICOT RD
39+25.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 15.94 | 13.75 | 1870.42 |
| FILL | 5.10 | 9.51 | 4561.81 |



CHICOT RD
39+00.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 13.76 | 31.39 | 1856.67 |
| FILL | 15.44 | 31.08 | 4552.30 |



CHICOT RD
38+50.00

| | AREA | VOLUME | CUMULATIVE VOLUME |
|------|-------|--------|-------------------|
| CUT | 20.14 | 32.05 | 1825.28 |
| FILL | 18.13 | 36.24 | 4521.22 |