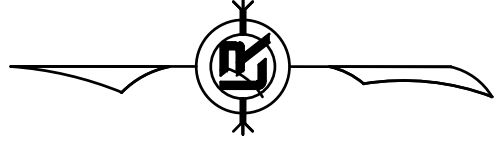
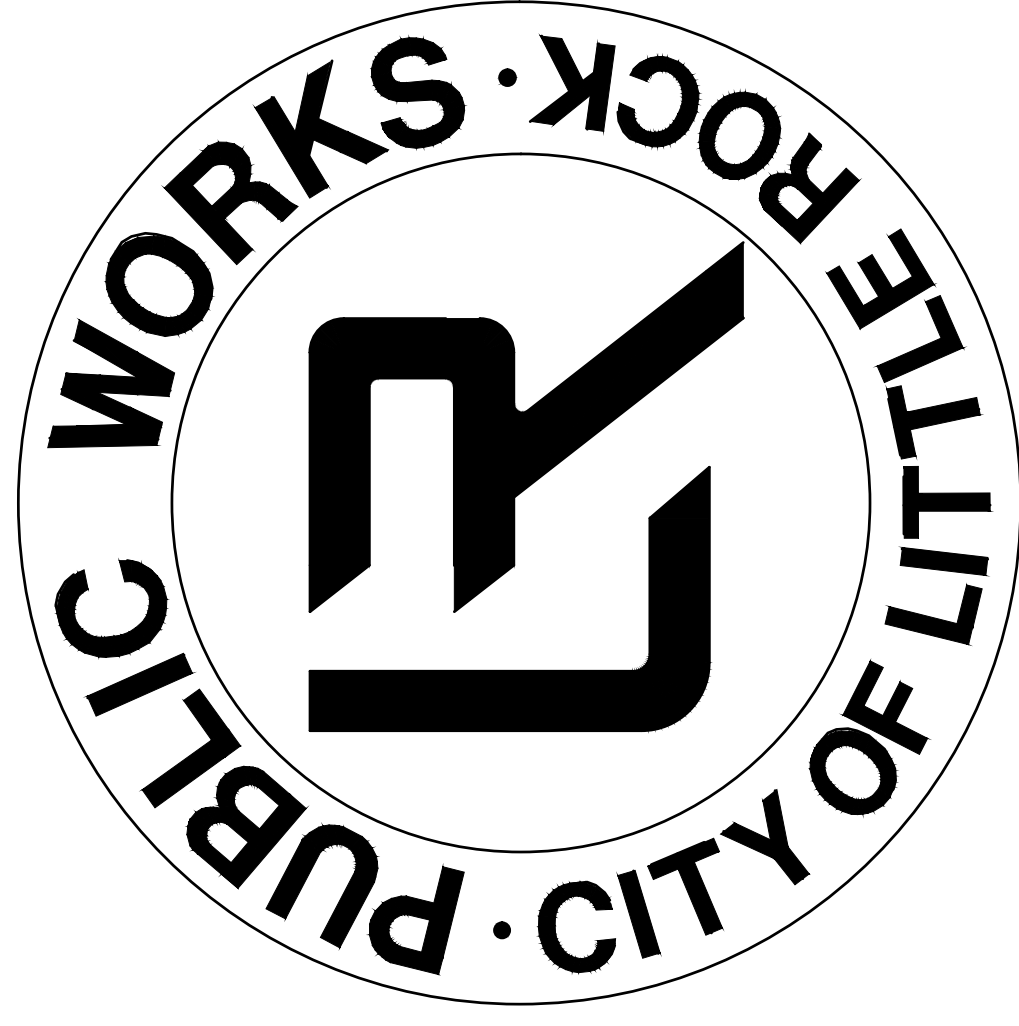


PROJECT LOCATION - WARD 6



KANIS PROJECT  
BEGIN STA. 37+00

PROJECT  
LOCATION

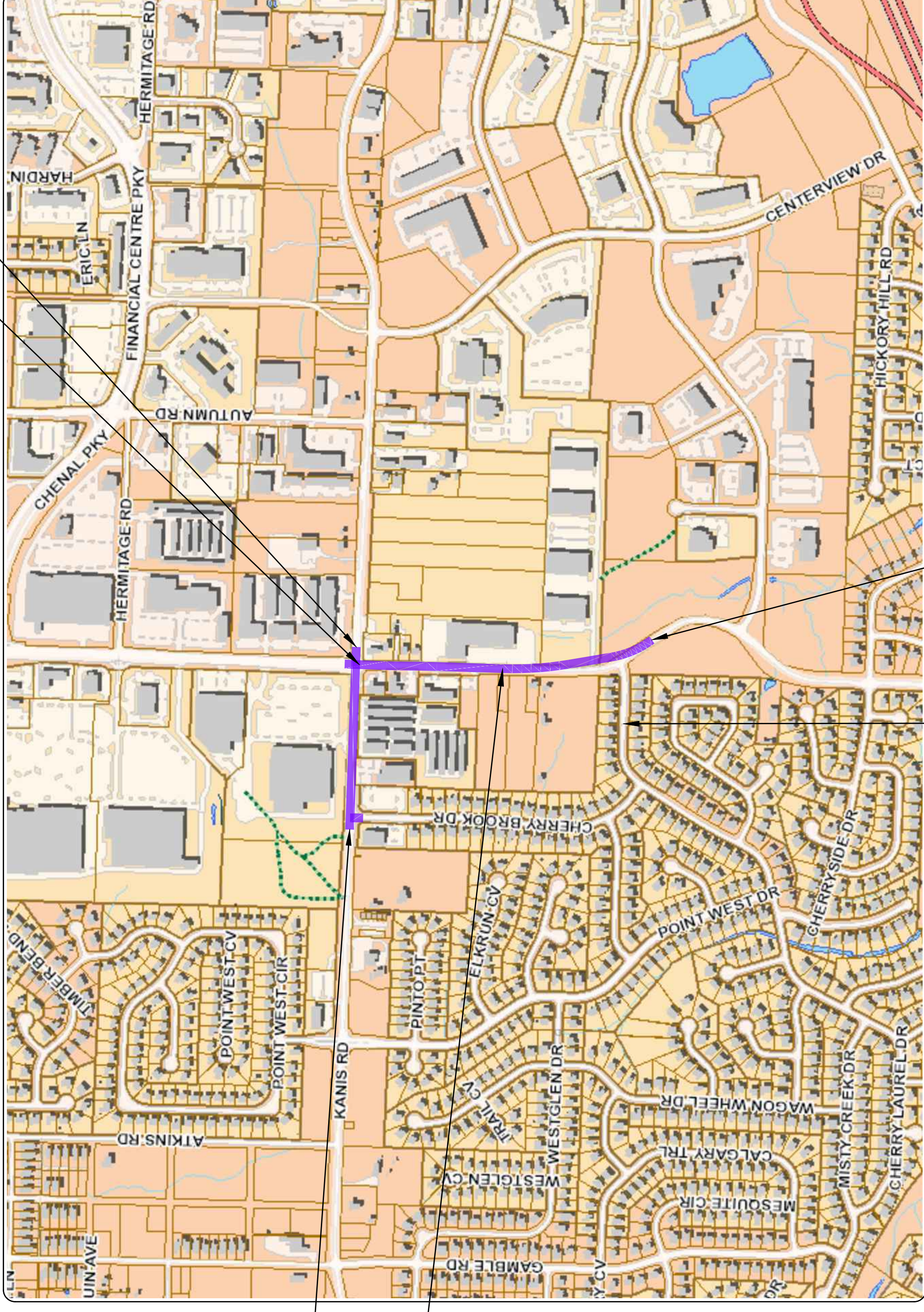


# BOWMAN RD./KANIS RD. IMPVTS. (LITTLE ROCK) (S)

PULASKI COUNTY  
FED. AID PROJ. STPU-9253(96)  
JOB 061693

BOWMAN PROJECT  
END STA. 30+10

KANIS PROJECT  
END STA. 48+00



CHERRY LAUREL DR.

PROJECT START  
STATION 13+39

**2019-2021  
BOND PROGRAM**

DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 WEST MARKHAM STREET  
LITTLE ROCK, ARKANSAS 72201



Know what's below.  
Call before you dig.

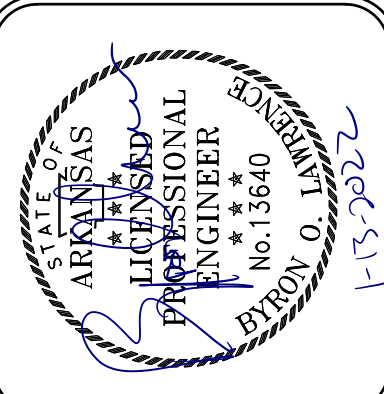
**Michael Baker**

**INTERNATIONAL**  
101 SOUTH SPRING ST.  
SUITE 100  
LITTLE ROCK, ARKANSAS, 72201  
(501) 907-6223

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
BOWMAN ROAD RECONSTRUCTION  
COVER SHEET

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	N.T.S.
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C1.0

SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
C1.0	COVER SHEET
C2.0	GENERAL NOTES, LEGEND, & QUANTITIES
C3.0-3.5	EXISTING CONDITIONS
C4.0-4.5	SPECIAL DETAILS
C5.0-5.4	TYPICAL SECTIONS
C6.0-6.10	PLAN AND PROFILE SHEET
C7.0-7.5	DRIVEWAY PLAN
C8.0-8.5	SURVEY CONTROL
C9.0-9.1	ROW PARCEL KEY MAP (NOT INCLUDED IN CONSTRUCTION SET)
C10.0-10.6	EROSION CONTROL PLAN
C11.0-11.5	MAINTENANCE OF TRAFFIC PLAN
C12.0-12.2	SIGNAL PLAN
C13.0-13.3	SIGNAGE & MARKING PLAN
X1-30	CROSS SECTIONS

REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**GENERAL NOTES, LEGEND AND QUANTITIES**

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



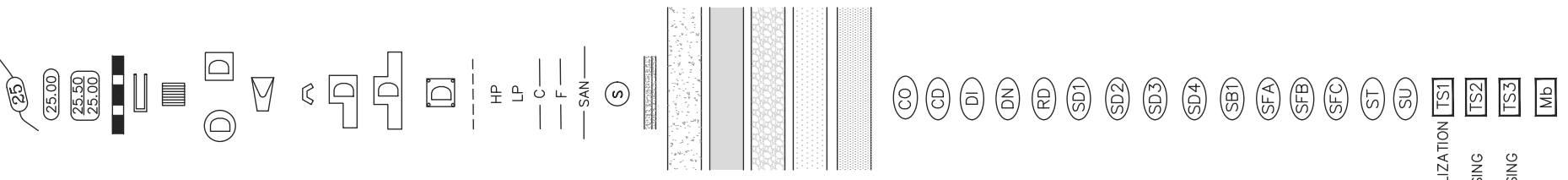
DRAWN BY  
 KLL  
 DESIGNED  
 COF  
 CHECKED  
 BOL  
 DATE  
 12-11-2020  
 SCALE  
 N.T.S.  
 PROJECT NO.  
 CLR 6-15-ST-249  
 SHEET NO.  
**C2.0**

**EXISTING**

- IRON ROD
- PK NAIL
- R.R. SPIKE
- CONC. MONUMENT
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- CLEAN-OUT
- GUARD POST (BOLLARD)
- SIGN POST
- BENCHMARK
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE BOX
- ELECTRIC BOX
- CABLE BOX
- UTILITY POLE
- GUY WIRE
- LIGHT POLE
- POST OR POLE (TYPE AS NOTED)
- MAILBOX
- DECIDUOUS TREE
- EVERGREEN/CONIFEROUS TREE
- BUSH
- PROPERTY LINE
- SETBACK LINE
- EASEMENT LINE
- CURB
- FENCE
- OVERHEAD ELECTRIC
- OVERHEAD TELEPHONE
- OVERHEAD CABLE
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC
- UNDERGROUND CABLE
- WATER LINE
- SEWER LINE
- GAS LINE
- STORM SEWER/CULVERT
- EDGE OF WOODS
- CONTOUR LINE
- TREE REMOVAL

**PROPOSED**

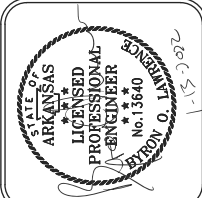
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED SPOT CURB ELEVATION
- STORM SEWER -- PIPE
- STORM SEWER -- MITERED END SECTION
- STORM SEWER -- GRATE INLET
- STORM SEWER -- JUNCTION BOX
- STORM SEWER -- FLARED END SECTION
- STORM SEWER -- HEADWALL
- STORM SEWER -- SINGLE WING
- STORM SEWER -- DOUBLE WING
- STORM SEWER -- AREA INLET
- GRADE BREAK LINE
- HIGH POINT
- LOW POINT
- CUT LINE
- FILL LINE
- SANITARY SEWER PIPE
- SANITARY SEWER MANHOLE
- PROPOSED CURB
- PROPOSED CONCRETE
- ASPHALT DRIVEWAY
- GRAVEL DRIVEWAY
- ASPHALT OVERLAY
- FULL DEPTH ASPHALT
- CONSTRUCTION -- ENTRANCE/EXIT
- CHECK DAM
- DIVERSION BERM
- DOWNDRAIN STRUCTURE -- TEMPORARY
- ROCK DAM
- SEDIMENT BARRIER -- SILT FENCE
- SEDIMENT BARRIER -- GRAVEL RING
- SEDIMENT BARRIER -- BLOCK & GRAVEL
- SEDIMENT BARRIER -- BLOCK
- TEMPORARY SEDIMENT BASIN
- SILT FENCE -- TYPE A
- SILT FENCE -- TYPE B
- SILT FENCE -- TYPE C
- STORM DRAIN OUTLET PROTECTION
- SURFACE ROUGHENING
- DISTURBED AREA STABILIZATION -- TEMPORARY STABILIZATION
- DISTURBED AREA STABILIZATION -- TEMPORARY GRASSING
- DISTURBED AREA STABILIZATION -- PERMANENT GRASSING
- MATTING/BLANKETS



REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**EXISTING CONDITIONS**

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	1" = 20'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C3.0



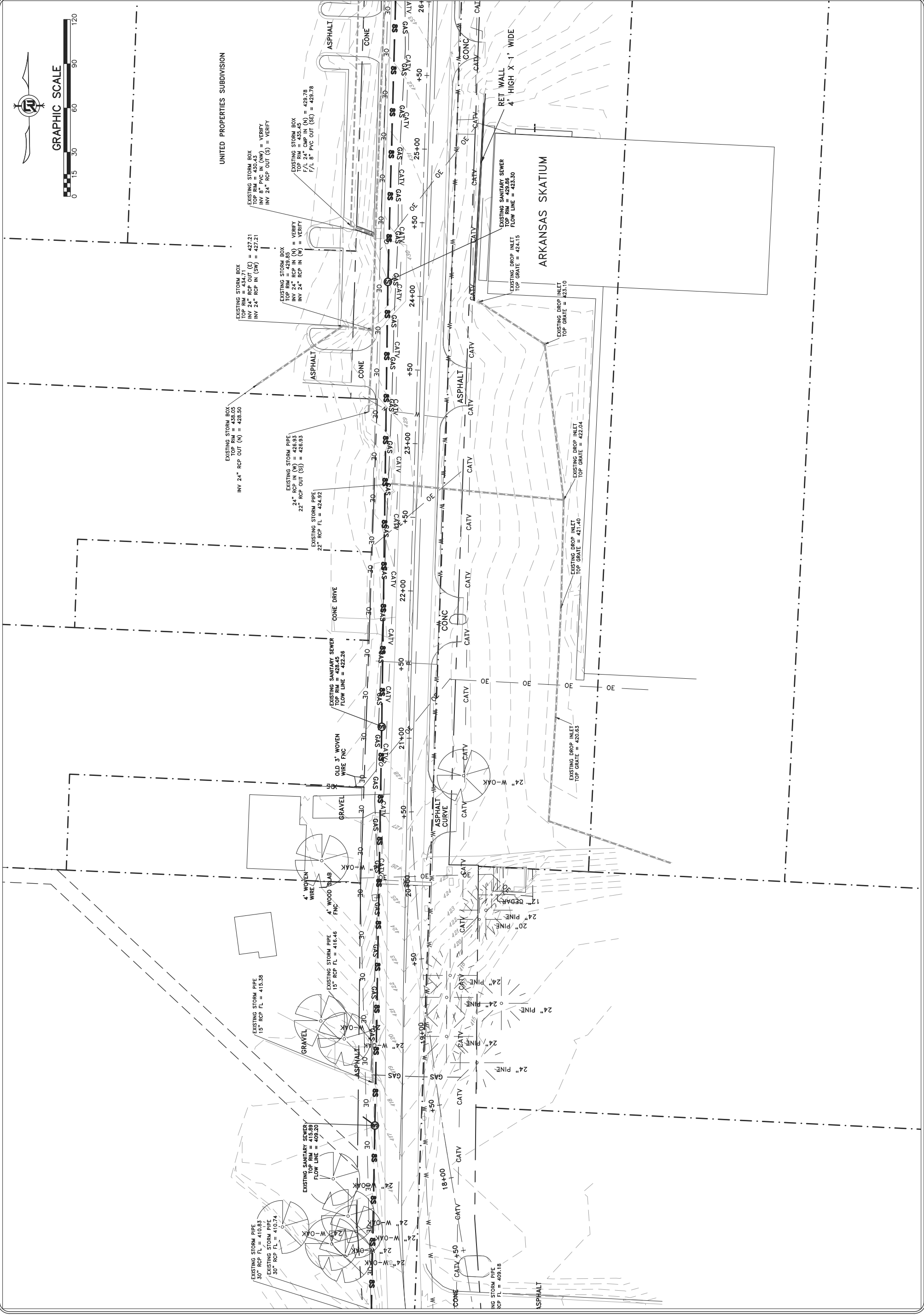
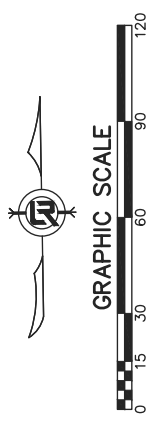
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD RECONSTRUCTION  
 EXISTING CONDITIONS

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



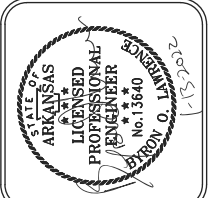
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DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	1" = 20'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C3.1



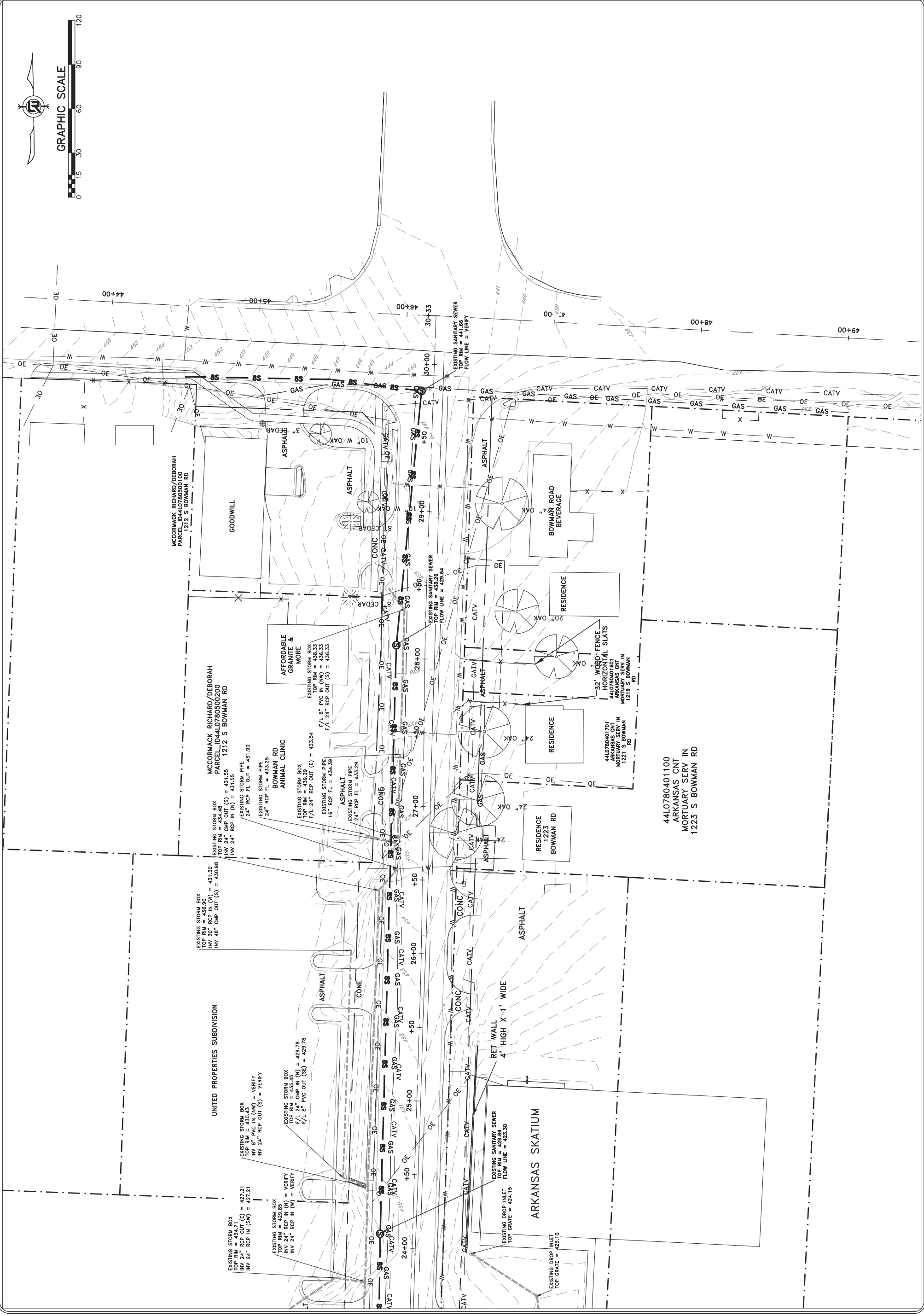
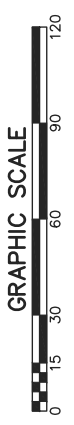
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**EXISTING CONDITIONS**

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	1" = 20'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C3.2



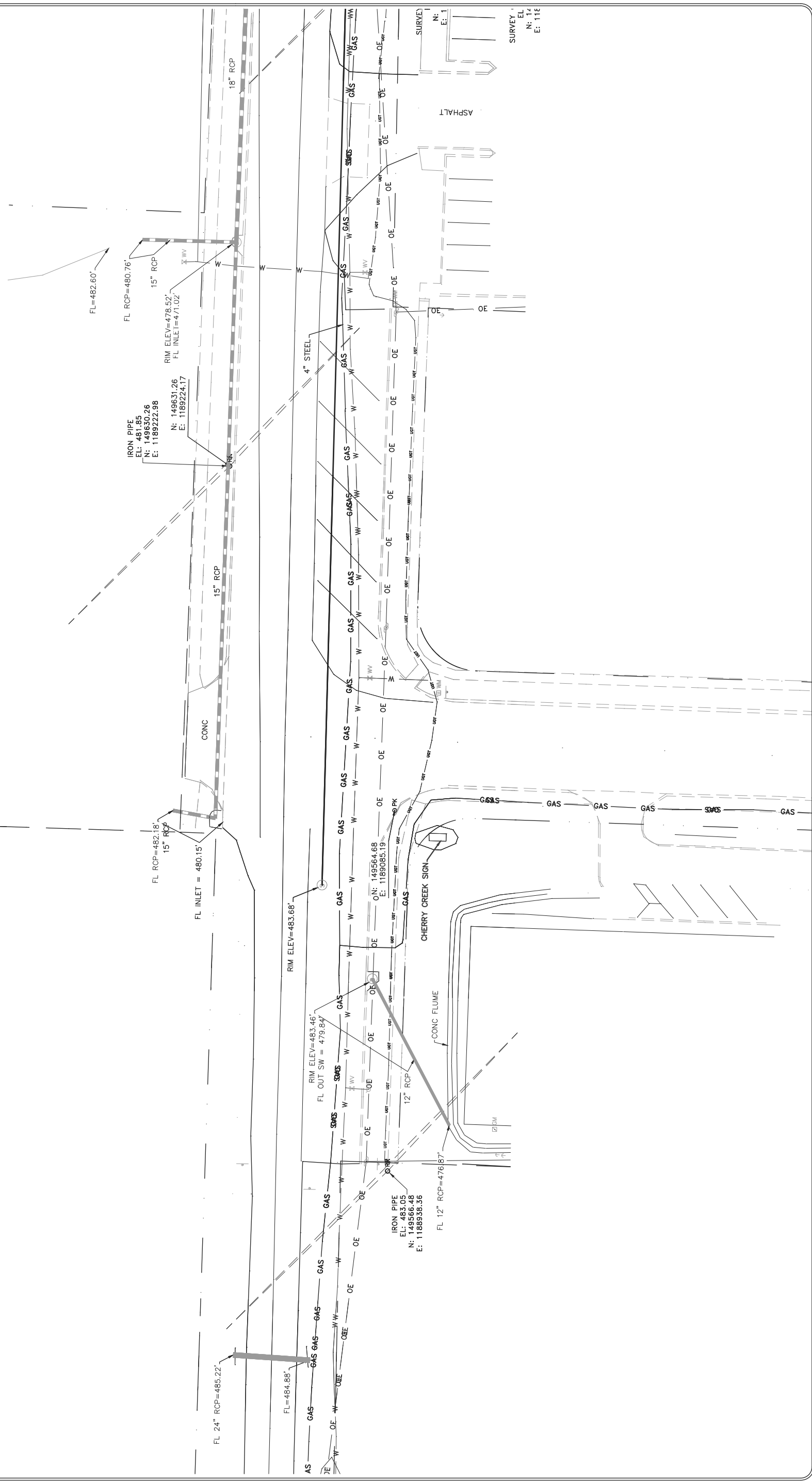
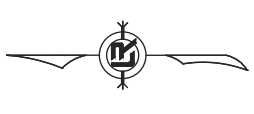
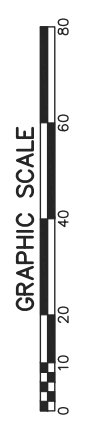
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD RECONSTRUCTION  
 EXISTING CONDITIONS

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C3.3



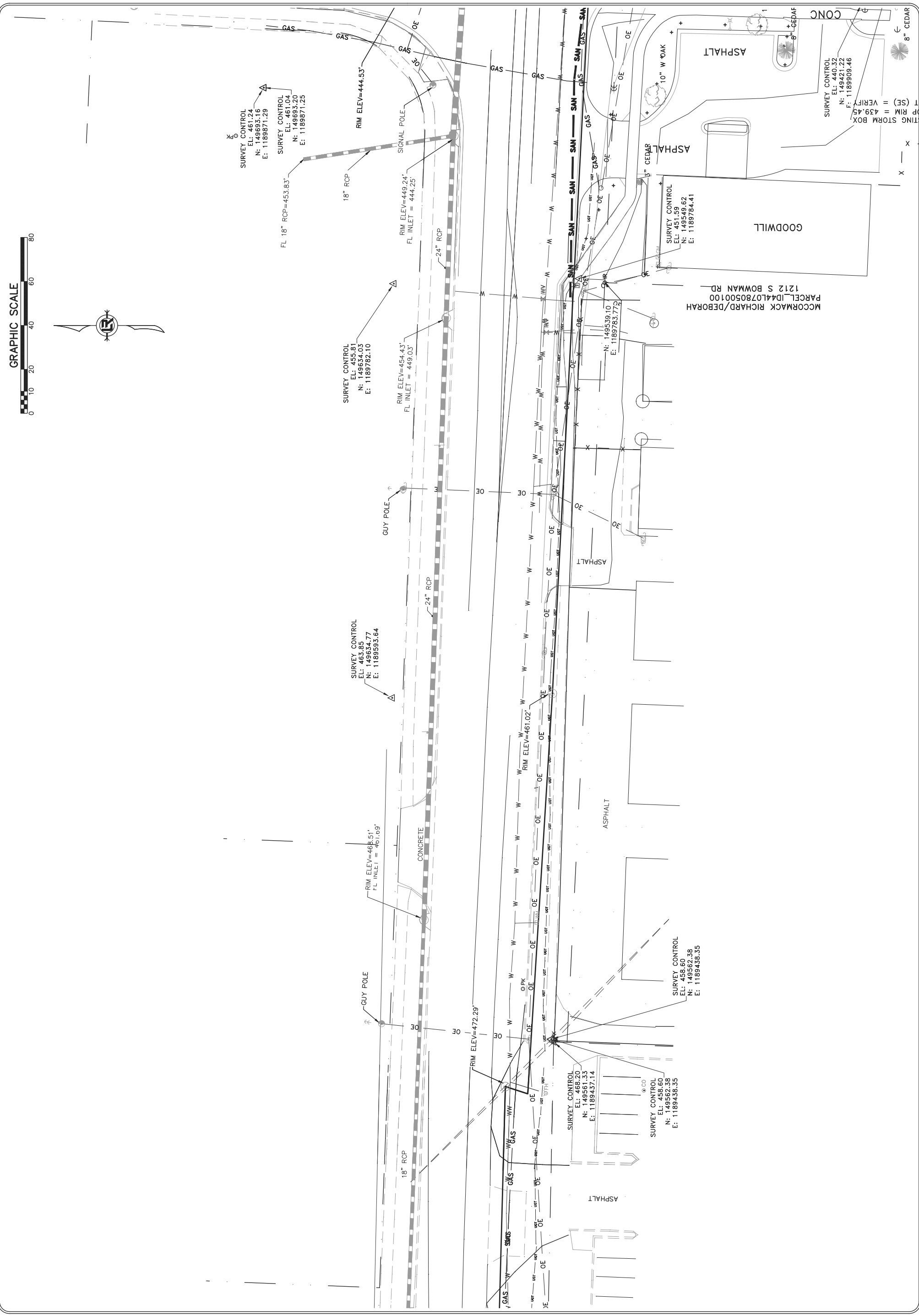
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
BOWMAN ROAD RECONSTRUCTION  
EXISTING CONDITIONS

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C3.4



MCCORMACK RICHARD/DEBORAH  
PARCEL\_ID#440780500100  
1212 S BOWMAN RD

ING STORM BOX  
P RIM = 459.45  
T (SE) = VERIFY  
N: 149421.22  
E: 1189909.46  
SURVEY CONTROL  
EL: 440.32

SURVEY CONTROL  
EL: 451.59  
N: 149549.62  
E: 1189784.41

N: 149539.10  
E: 1189783.772

SURVEY CONTROL  
EL: 455.81  
N: 149634.03  
E: 1189782.10

SURVEY CONTROL  
EL: 463.85  
N: 149634.77  
E: 1189933.64

RIM ELEV=466.51'  
FL INLET = 461.69'

RIM ELEV=472.29'

SURVEY CONTROL  
EL: 466.20  
N: 149561.33  
E: 1189437.14

SURVEY CONTROL  
EL: 458.60  
N: 149562.38  
E: 1189436.35

SURVEY CONTROL  
EL: 458.00  
N: 149562.38  
E: 1189436.35

SURVEY CONTROL  
EL: 461.24  
N: 149693.16  
E: 1189871.29

SURVEY CONTROL  
EL: 461.04  
N: 149693.20  
E: 1189871.25

FL 18" RCP=453.83'

RIM ELEV=449.24'  
FL INLET = 444.25'

RIM ELEV=454.43'  
FL INLET = 449.03'

RIM ELEV=461.02'

RIM ELEV=466.51'

RIM ELEV=472.29'

RIM ELEV=466.20'

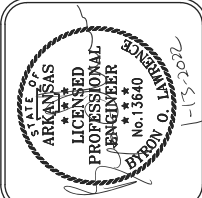
RIM ELEV=458.60'

RIM ELEV=458.00'

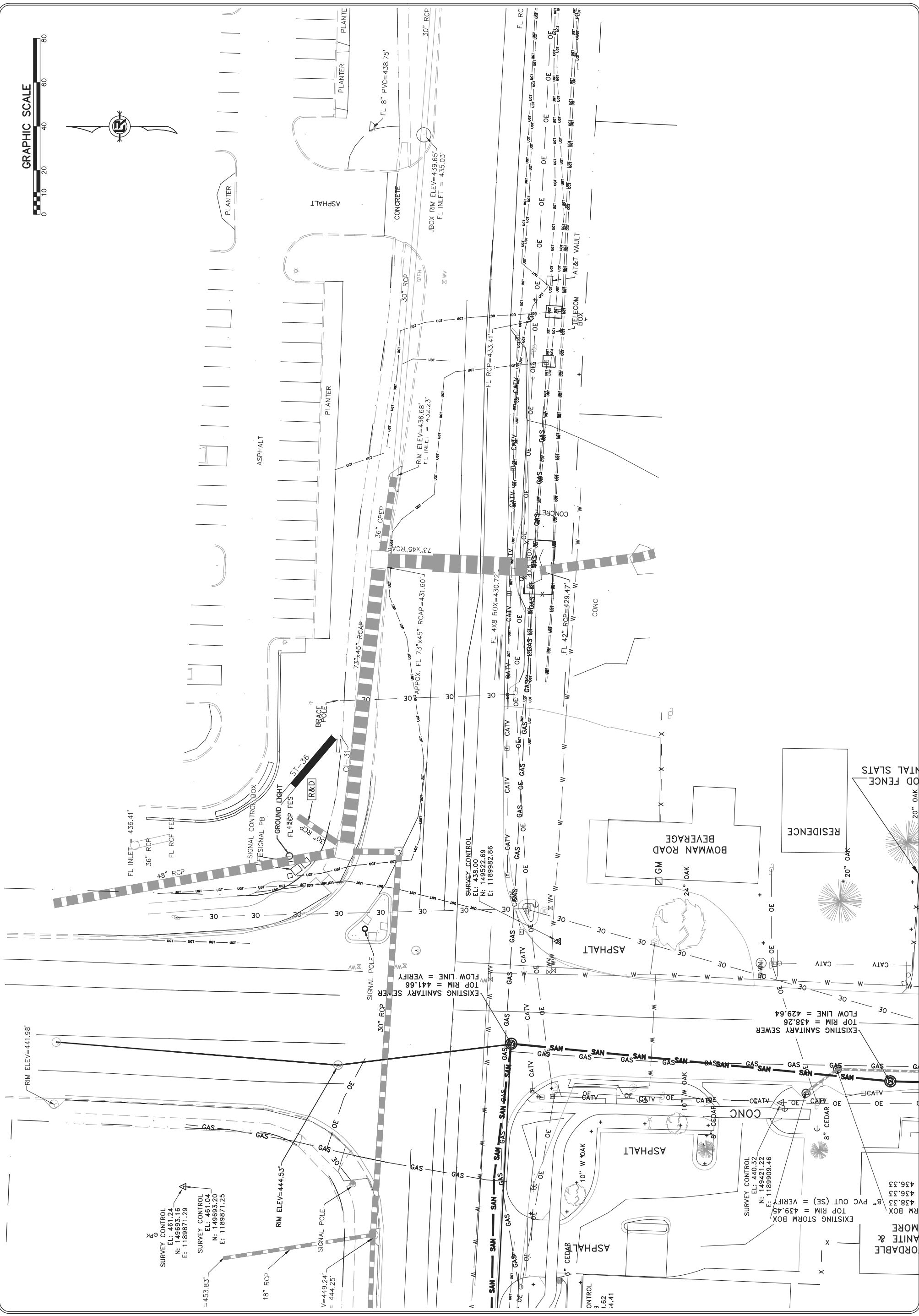
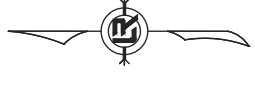
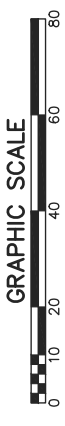
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**EXISTING CONDITIONS**

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	<b>C3.5</b>



SURVEY CONTROL  
 EL: 461.24  
 N: 149693.16  
 E: 1189871.29

SURVEY CONTROL  
 EL: 461.04  
 N: 149693.20  
 E: 1189871.25

SURVEY CONTROL  
 EL: 440.32  
 N: 149421.22  
 E: 1189909.46

ORDABLE  
 ANITE &  
 MORE  
 EXISTING STORM BOX  
 TOP RIM = 439.45  
 RM BOX  
 8" PVC OUT (SE) = VERIFY  
 436.33  
 436.33  
 436.33

OD FENCE  
 20" OAK

RESIDENCE

BOWMAN ROAD  
 BEVERAGE

SIGNAL POLE

EXISTING SANITARY SEWER  
 TOP RIM = 441.66  
 FLOW LINE = VERIFY

EXISTING SANITARY SEWER  
 TOP RIM = 438.26  
 FLOW LINE = 429.64

SURVEY CONTROL  
 EL: 441.98  
 N: 149693.69  
 E: 1189862.86

CONTROL  
 3  
 1.62  
 -4.41

CONTROL  
 2  
 1.62  
 -4.41



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
BOWMAN ROAD RECONSTRUCTION  
SPECIAL DETAILS (1)

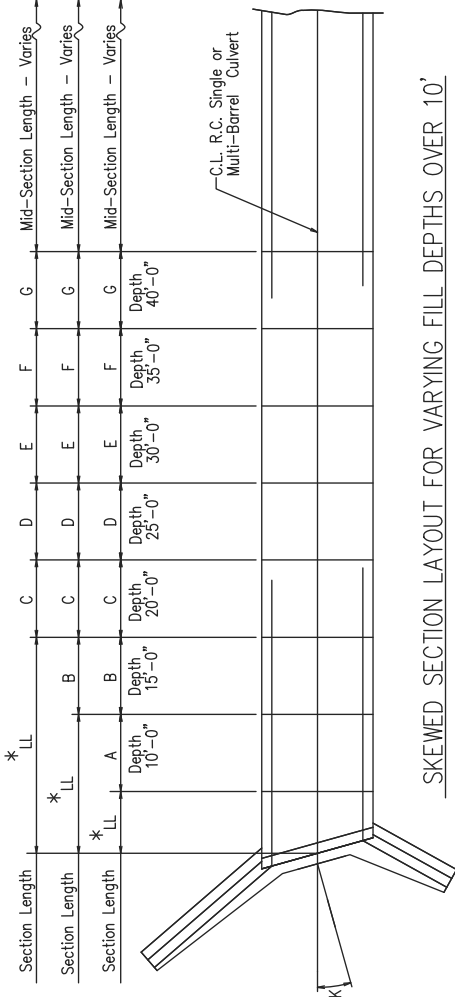
DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
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SHEET NO.	C4.0

\* LL = Skewed End Section Length - See "Skewed End Section Details"  
Length LL varies with skew angle, overall I box width and fill I depth  
and may eliminate the need for some slope section lengths as shown.

Note: For fill I depths 10' and under, use  
Mid-Section full I length of box culvert.



SKewed SECTION LAYOUT FOR VARYING FILL DEPTHS OVER 10'

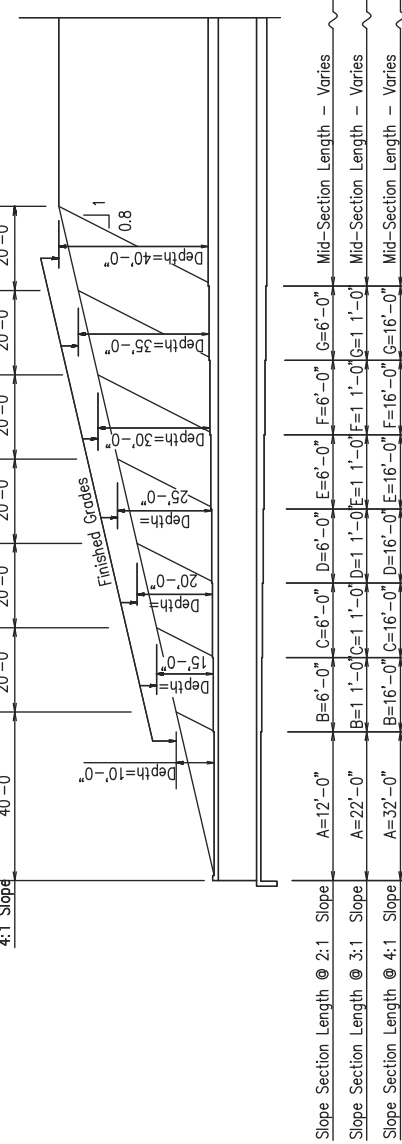
GENERAL NOTES:  
CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 edition) with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Standard Construction Specifications unless otherwise noted in the Plans.  
DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, Fifth Edition (2010) with 2010 interim revisions.  
LIVE LOADING: HL-93

All concrete shall be Class 5 with a minimum 28-day compressive strength of 3,500 psi and shall be poured in the dry. All exposed corners to have 1/2" chamfers.  
Reinforcing Steel shall be Grade 60 (yield strength = 60,000 psi) conforming to AASHTO M31 or M322, Type A, with mill test reports.  
Reinforcing Steel Tolerances: The tolerances for reinforcing steel shall meet those listed in 'Manual of Standard Practice' published by Concrete Reinforcing Steel Institute (CRSI) except that the tolerance for truss bars such as Figure 3 on page 7-4 of the CRSI Manual shall be minus zero to plus 1/2 inch.  
Excavation and backfilling shall be in accordance with the requirements of Section 801.  
Membrane Waterproofing shall conform to the requirements of Section 815. Membrane Waterproofing shall be Type C and as directed by the Engineer applied to all construction joints in the top slab and the sidewalls of R.C. Box culverts and to the construction joint between wingwalls and R.C. Box culvert walls.  
Weep Holes in box culvert walls shall have a maximum horizontal spacing of 10'-0" and shall be spaced to clear all reinforcing steel. The drain opening shall be 4" diameter and shall be placed 12" above the top of the bottom slab.  
Weep Holes in wingwalls shall have a maximum horizontal spacing of 10'-0" and shall be spaced to clear all reinforcing steel. There shall be a minimum of two (2) weep holes in each wingwall. The drain opening shall be 4" diameter and shall be placed 12" above the top of the wingwall footing.

The barrel components of the culvert may be constructed using continuous pours. For longer culvert construction, the Contractor may use multiple pours with transverse construction joints spaced a minimum of 50 feet apart unless superseded by stage construction or site constraints as approved by the Engineer. Construction joints between footings and walls shall be made only where shown in the Plans. Joints shall be keyed and shall be normal to the centerline of barrel except as noted. Reinforcing shall be continuous through joints unless noted otherwise. Reinforcing through stage construction joints shall provide the minimum bar lap length shown on the Tabular Data Sheets. All longitudinal construction joints shall be submitted to the Engineer for approval.  
Membrane Waterproofing, Weep Holes, Geotextile Filter Fabric, and Drainage Fill Material will not be paid for directly but shall be considered subsidiary to Class 5 Concrete.

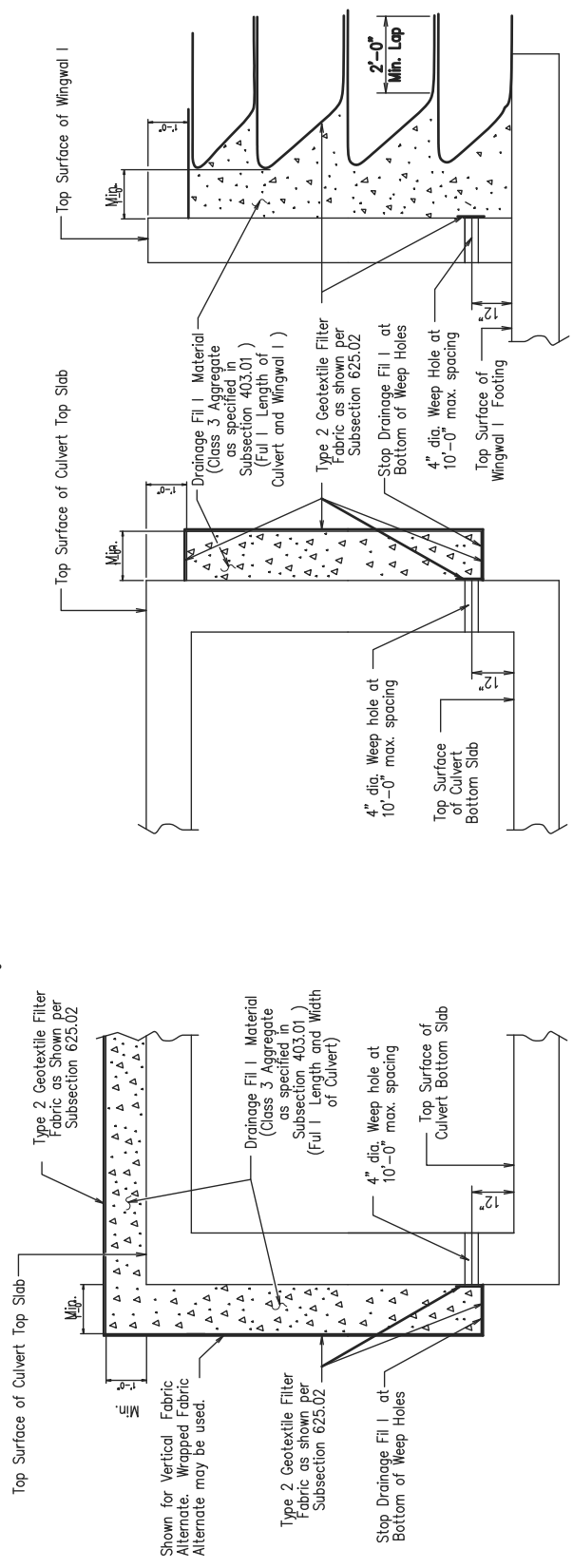
When the top slab of the box culvert serves as finished roadway surface, curing and finishing shall be in accordance with subsections 802.17 and 802.20 for bridge roadway surface and a fine finish shall be applied in accordance with subsection 802.19 for Class 5 Tined Bridge Roadway Surface Finish. Curing and finishing shall not be paid for directly, but shall be considered incidental to the item "Class 5 Concrete-Roadway".  
Class 1 Protective Surface Treatment shall be applied to the roadway surface and this work shall be paid for under the unit price bid for "Class 1 Protective Surface Treatment".  
When precast reinforced concrete box culverts are substituted for cast in place box culverts, they shall be manufactured according to ASTM C 1577 and meet the requirements of Section 607. When the top slab of the box culvert serves as the finished roadway surface, a precast reinforced concrete box culvert substitution is not allowed.

SHEET 1 OF 4  
GENERAL NOTES &  
LONGITUDINAL SECTION LENGTH SCHEDULE  
SPECIAL DETAILS



LONGITUDINAL SECTION LENGTH SCHEDULE FOR VARYING FILL DEPTHS OVER 10'

Lengths for Non-Skewed Boxes

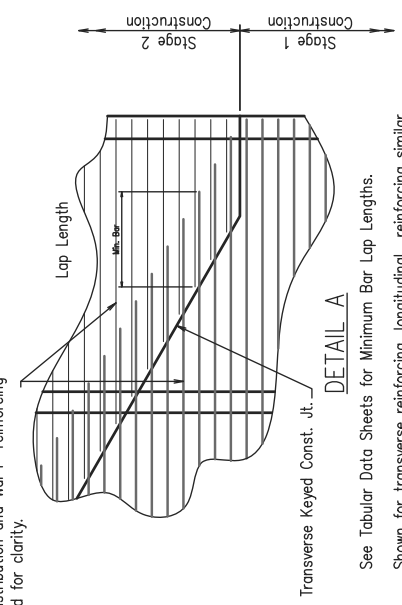


VERTICAL FABRIC ALTERNATE (Shown for Culvert, Similar for Wingwall I)  
WRAPPED FABRIC ALTERNATE (Shown for Wingwall I, Similar for Culvert)

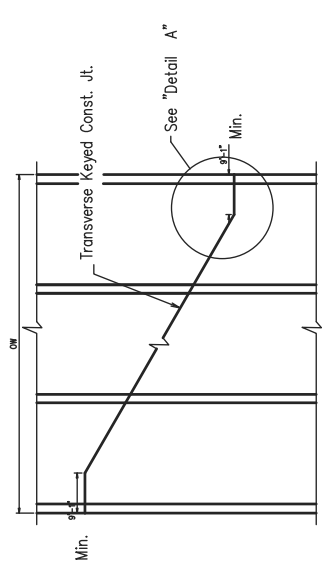
WINGWALL & CULVERT DRAINAGE DETAIL L

Slab bars "a", "b", "c", "d", "e", "f", "g", "h", "i", "j", "k", "l", "m", "n", "o", "p", "q", "r", "s", "t", "u", "v", "w", "x", "y", "z", "aa", "ab", "ac", "ad", "ae", "af", "ag", "ah", "ai", "aj", "ak", "al", "am", "an", "ao", "ap", "aq", "ar", "as", "at", "au", "av", "aw", "ax", "ay", "az", "ba", "bb", "bc", "bd", "be", "bf", "bg", "bh", "bi", "bj", "bk", "bl", "bm", "bn", "bo", "bp", "bq", "br", "bs", "bt", "bu", "bv", "bw", "bx", "by", "bz", "ca", "cb", "cc", "cd", "ce", "cf", "cg", "ch", "ci", "cj", "ck", "cl", "cm", "cn", "co", "cp", "cq", "cr", "cs", "ct", "cu", "cv", "cw", "cx", "cy", "cz", "da", "db", "dc", "dd", "de", "df", "dg", "dh", "di", "dj", "dk", "dl", "dm", "dn", "do", "dp", "dq", "dr", "ds", "dt", "du", "dv", "dw", "dx", "dy", "dz", "ea", "eb", "ec", "ed", "ee", "ef", "eg", "eh", "ei", "ej", "ek", "el", "em", "en", "eo", "ep", "eq", "er", "es", "et", "eu", "ev", "ew", "ex", "ey", "ez", "fa", "fb", "fc", "fd", "fe", "ff", "fg", "fh", "fi", "fj", "fk", "fl", "fm", "fn", "fo", "fp", "fq", "fr", "fs", "ft", "fu", "fv", "fw", "fx", "fy", "fz", "ga", "gb", "gc", "gd", "ge", "gf", "gg", "gh", "gi", "gj", "gk", "gl", "gm", "gn", "go", "gp", "gq", "gr", "gs", "gt", "gu", "gv", "gw", "gx", "gy", "gz", "ha", "hb", "hc", "hd", "he", "hf", "hg", "hh", "hi", "hj", "hk", "hl", "hm", "hn", "ho", "hp", "hq", "hr", "hs", "ht", "hu", "hv", "hw", "hx", "hy", "hz", "ia", "ib", "ic", "id", "ie", "if", "ig", "ih", "ii", "ij", "ik", "il", "im", "in", "io", "ip", "iq", "ir", "is", "it", "iu", "iv", "iw", "ix", "iy", "iz", "ja", "jb", "jc", "jd", "je", "jf", "jg", "jh", "ji", "jj", "jk", "jl", "jm", "jn", "jo", "jp", "jq", "jr", "js", "jt", "ju", "jv", "jw", "jx", "jy", "jz", "ka", "kb", "kc", "kd", "ke", "kf", "kg", "kh", "ki", "kj", "kk", "kl", "km", "kn", "ko", "kp", "kq", "kr", "ks", "kt", "ku", "kv", "kw", "kx", "ky", "kz", "la", "lb", "lc", "ld", "le", "lf", "lg", "lh", "li", "lj", "lk", "ll", "lm", "ln", "lo", "lp", "lq", "lr", "ls", "lt", "lu", "lv", "lw", "lx", "ly", "lz", "ma", "mb", "mc", "md", "me", "mf", "mg", "mh", "mi", "mj", "mk", "ml", "mm", "mn", "mo", "mp", "mq", "mr", "ms", "mt", "mu", "mv", "mw", "mx", "my", "mz", "na", "nb", "nc", "nd", "ne", "nf", "ng", "nh", "ni", "nj", "nk", "nl", "nm", "nn", "no", "np", "nq", "nr", "ns", "nt", "nu", "nv", "nw", "nx", "ny", "nz", "oa", "ob", "oc", "od", "oe", "of", "og", "oh", "oi", "oj", "ok", "ol", "om", "on", "oo", "op", "oq", "or", "os", "ot", "ou", "ov", "ow", "ox", "oy", "oz", "pa", "pb", "pc", "pd", "pe", "pf", "pg", "ph", "pi", "pj", "pk", "pl", "pm", "pn", "po", "pp", "pq", "pr", "ps", "pt", "pu", "pv", "pw", "px", "py", "pz", "qa", "qb", "qc", "qd", "qe", "qf", "qg", "qh", "qi", "qj", "qk", "ql", "qm", "qn", "qo", "qp", "qq", "qr", "qs", "qt", "qu", "qv", "qw", "qx", "qy", "qz", "ra", "rb", "rc", "rd", "re", "rf", "rg", "rh", "ri", "rj", "rk", "rl", "rm", "rn", "ro", "rp", "rq", "rr", "rs", "rt", "ru", "rv", "rw", "rx", "ry", "rz", "sa", "sb", "sc", "sd", "se", "sf", "sg", "sh", "si", "sj", "sk", "sl", "sm", "sn", "so", "sp", "sq", "sr", "ss", "st", "su", "sv", "sw", "sx", "sy", "sz", "ta", "tb", "tc", "td", "te", "tf", "tg", "th", "ti", "tj", "tk", "tl", "tm", "tn", "to", "tp", "tq", "tr", "ts", "tt", "tu", "tv", "tw", "tx", "ty", "tz", "ua", "ub", "uc", "ud", "ue", "uf", "ug", "uh", "ui", "uj", "uk", "ul", "um", "un", "uo", "up", "uq", "ur", "us", "ut", "uu", "uv", "uw", "ux", "uy", "uz", "va", "vb", "vc", "vd", "ve", "vf", "vg", "vh", "vi", "vj", "vk", "vl", "vm", "vn", "vo", "vp", "vq", "vr", "vs", "vt", "vu", "vv", "vw", "vx", "vy", "vz", "wa", "wb", "wc", "wd", "we", "wf", "wg", "wh", "wi", "wj", "wk", "wl", "wm", "wn", "wo", "wp", "wq", "wr", "ws", "wt", "wu", "wv", "ww", "wx", "wy", "wz", "xa", "xb", "xc", "xd", "xe", "xf", "xg", "xh", "xi", "xj", "xk", "xl", "xm", "xn", "xo", "xp", "xq", "xr", "xs", "xt", "xu", "xv", "xw", "xx", "xy", "xz", "ya", "yb", "yc", "yd", "ye", "yf", "yg", "yh", "yi", "yj", "yk", "yl", "ym", "yn", "yo", "yp", "yq", "yr", "ys", "yt", "yu", "yv", "yw", "yx", "yy", "yz", "za", "zb", "zc", "zd", "ze", "zf", "zg", "zh", "zi", "zj", "zk", "zl", "zm", "zn", "zo", "zp", "zq", "zr", "zs", "zt", "zu", "zv", "zw", "zx", "zy", "zz".

CULVERT DRAINAGE DETAIL L FOR ROCK FILL  
This detail I shall be used when rock fill I is specified for embankment construction.



See Tabular Data Sheets for Minimum Bar Lap Lengths.  
Shown for transverse reinforcing, longitudinal reinforcing similar.

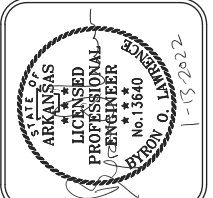


SKewed TRANSVERSE JOINT DETAIL  
This detail shall be used to construct a skewed transverse joint only for Multi-Barrel Culverts and only when required by the Maintenance of Traffic Plans. Otherwise, transverse joints should be made normal to the centerline of the barrel.

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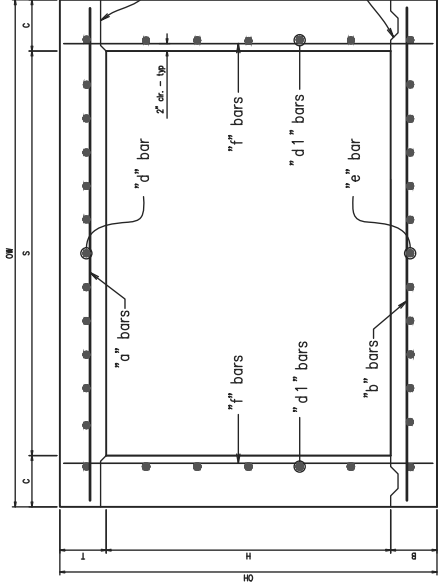
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BOWMAN ROAD RECONSTRUCTION  
SPECIAL DETAILS (2)

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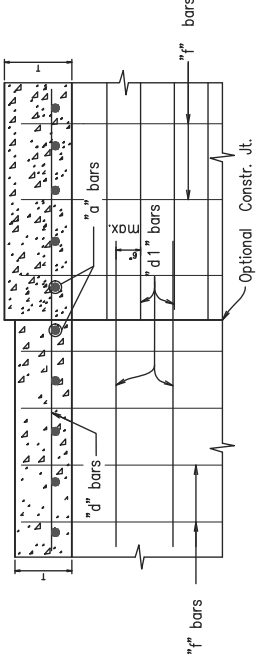


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Note: When top slab of culvert serves as finished roadway surface, see General Notes on Sheet 1 of 4.

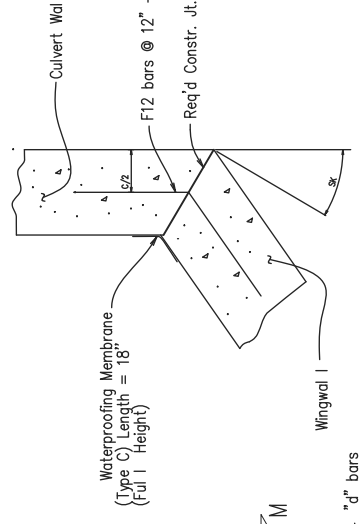


TYPICAL SECTION M-M



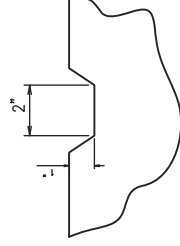
LONGITUDINAL LAP DETAIL AT CHANGE IN SECTIONS  
TOP SLAB SHOWN, BOTTOM SLAB SIMILAR

Longitudinal Bar Spacing at individual sections shall be maintained, which may result in noncontact bar laps.

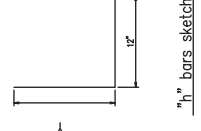


WINGWALL ATTACHMENT

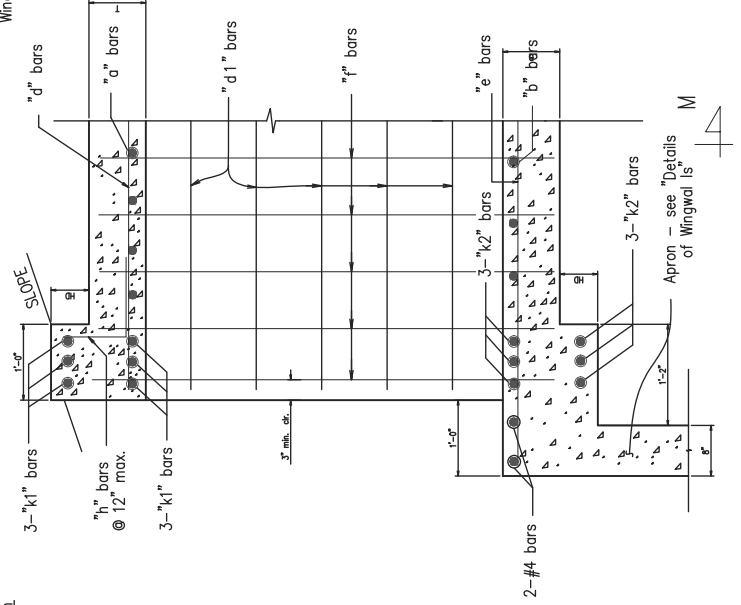
See 'Details of Wingwall Is' for additional information and wingwall details.



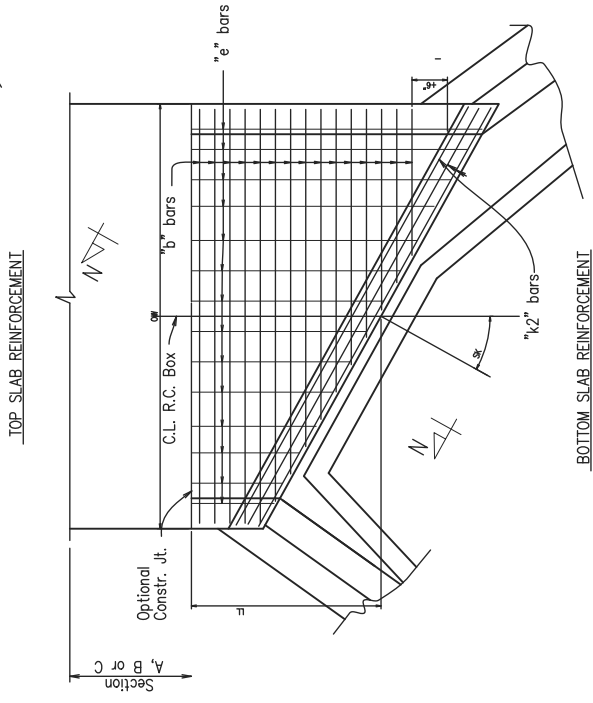
TYPICAL KEYWAY DETAIL  
(A1 Construction Joints)



h bars sketch



PART LONGITUDINAL SECTION N-N  
(Non-Skewed Ends)



SKEWED END SECTION DETAILS

SHEET 2 OF 4  
GENERAL DETAILS OF R.C. BOX CULVERT

DETAILS OF SINGLE BARREL  
R.C. BOX CULVERT

SPECIAL DETAILS



REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**SPECIAL DETAILS (3)**

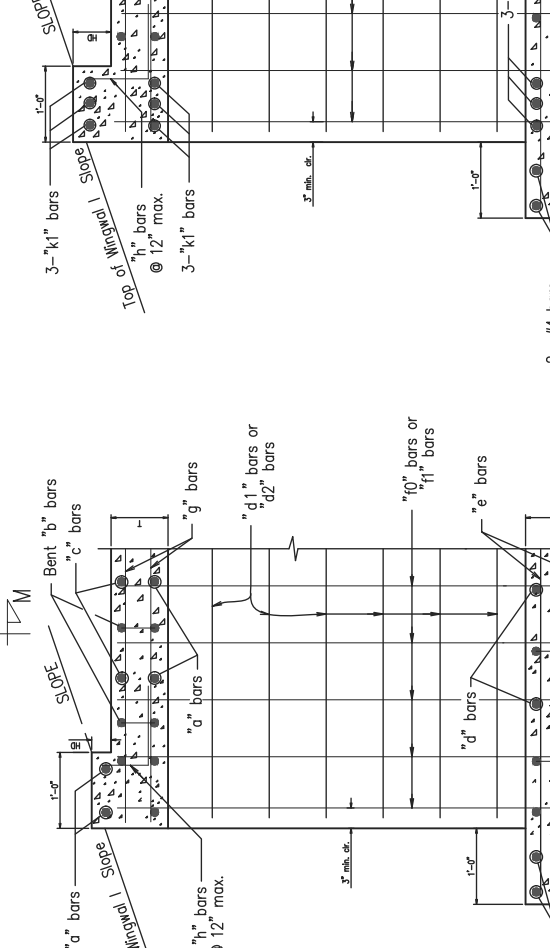
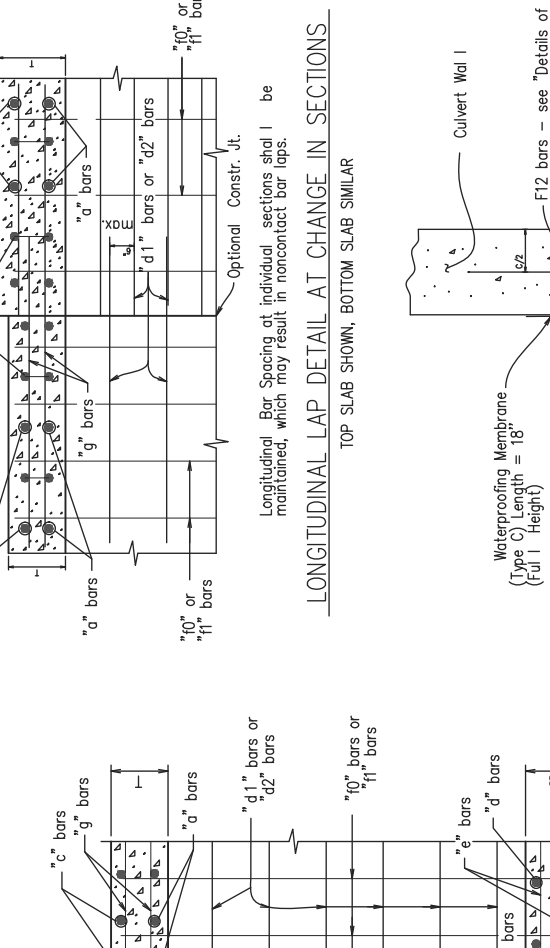
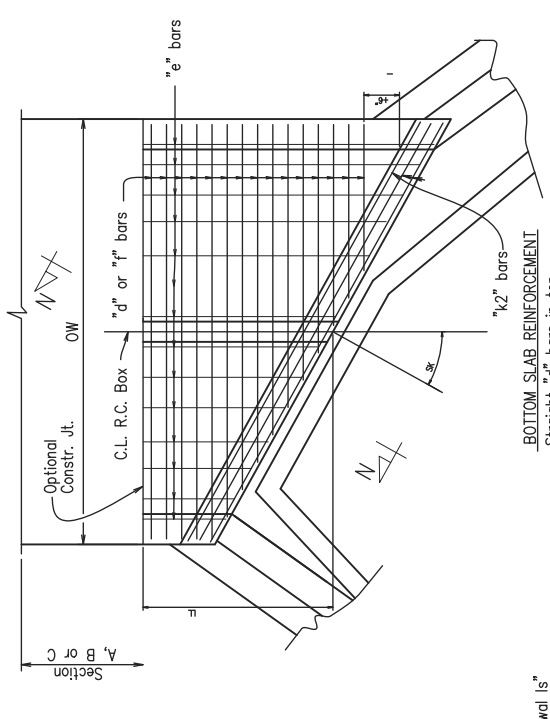
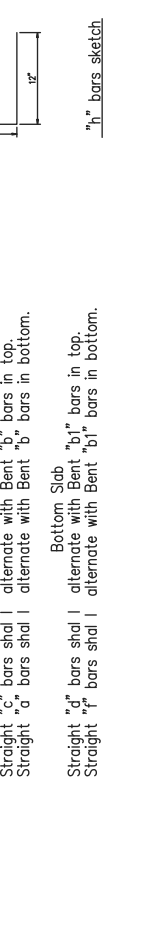
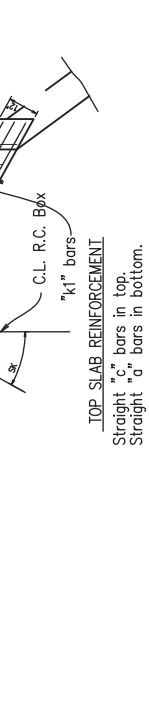
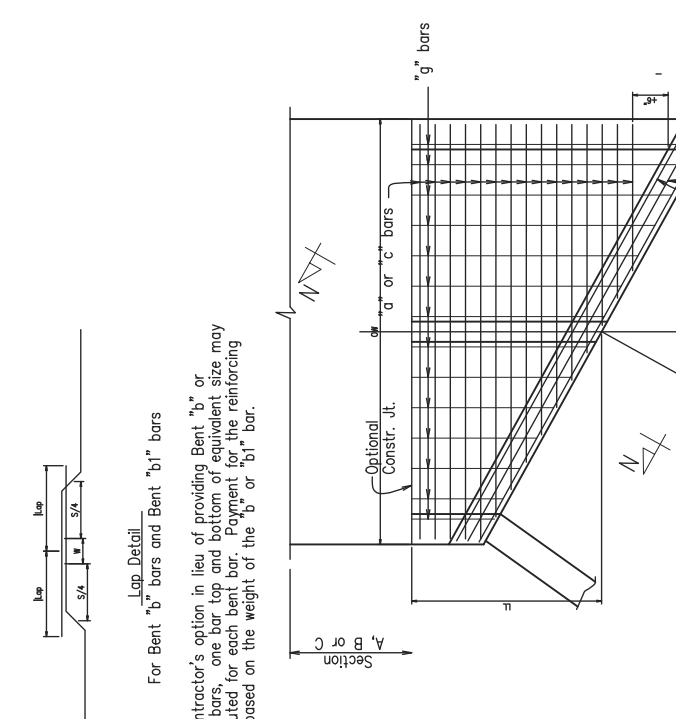
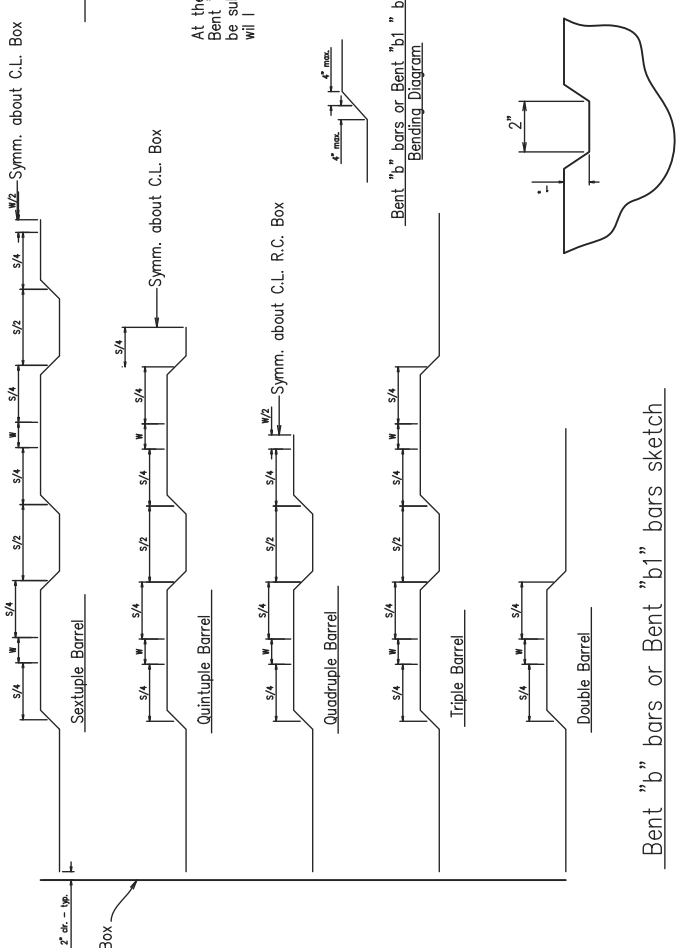
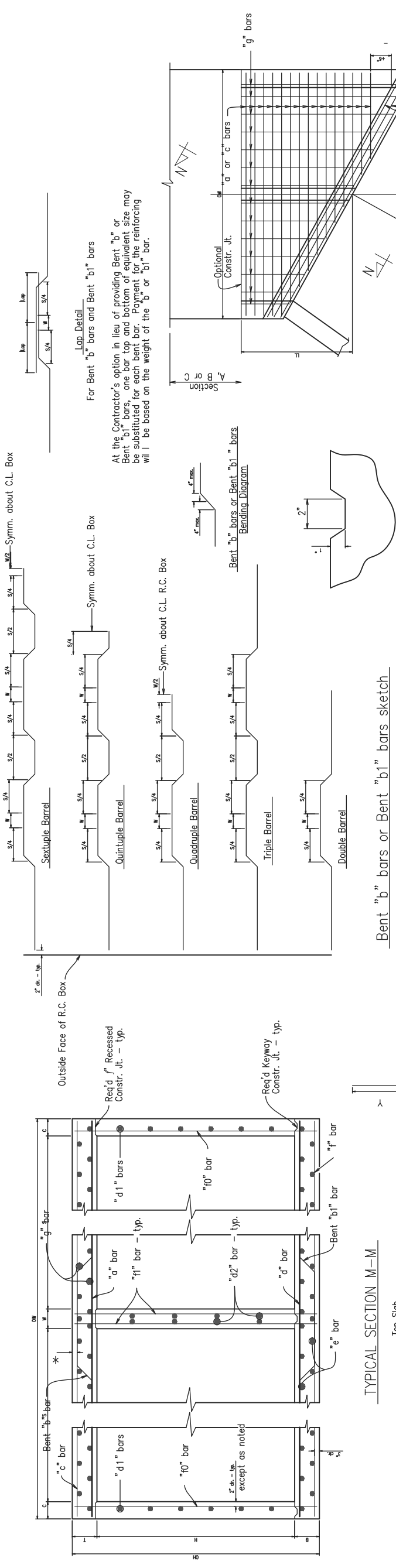
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\* 2" clr. for fill | depth (D) greater than 2 ft.  
 2" clr. for fill | depth (D) equal to or less than 2 ft.

Note: When top slab of culvert serves as finished roadway surface, see General Notes on Sheet 1 of 4.



**SKewed END SECTION DETAILS**

SHEET 3 OF 4

**GENERAL DETAILS OF R.C. BOX CULVERT**

DETAILS OF MULTI-BARREL  
 R.C. BOX CULVERT

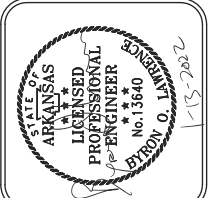
SPECIAL DETAILS



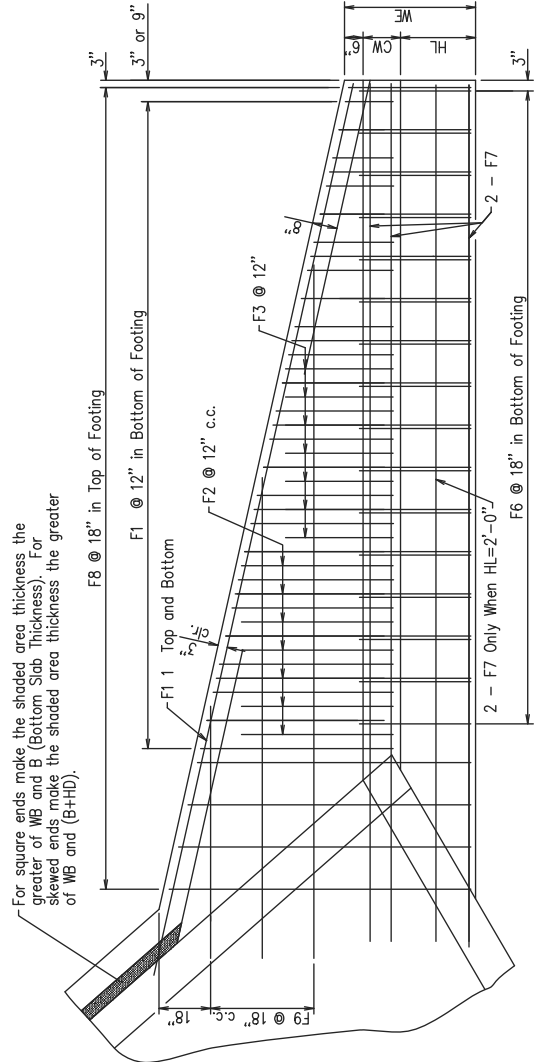
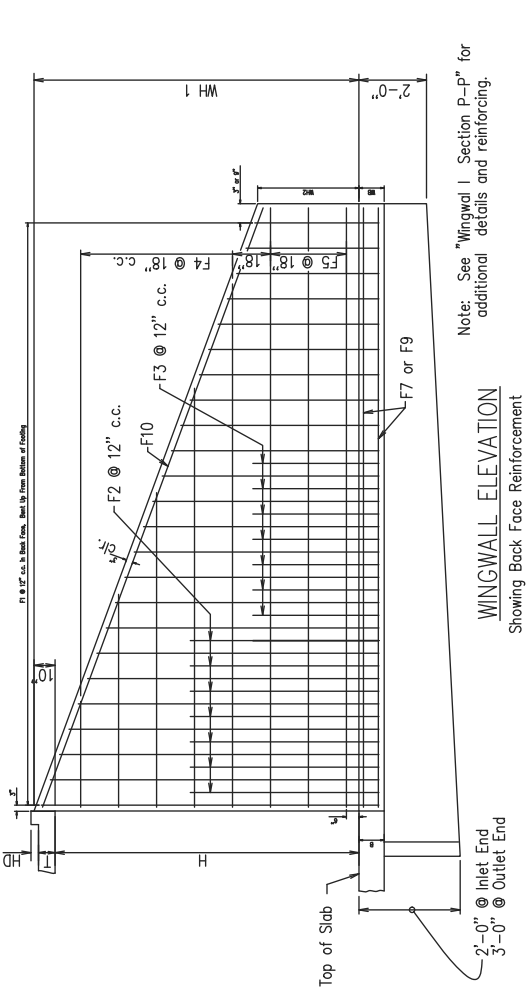
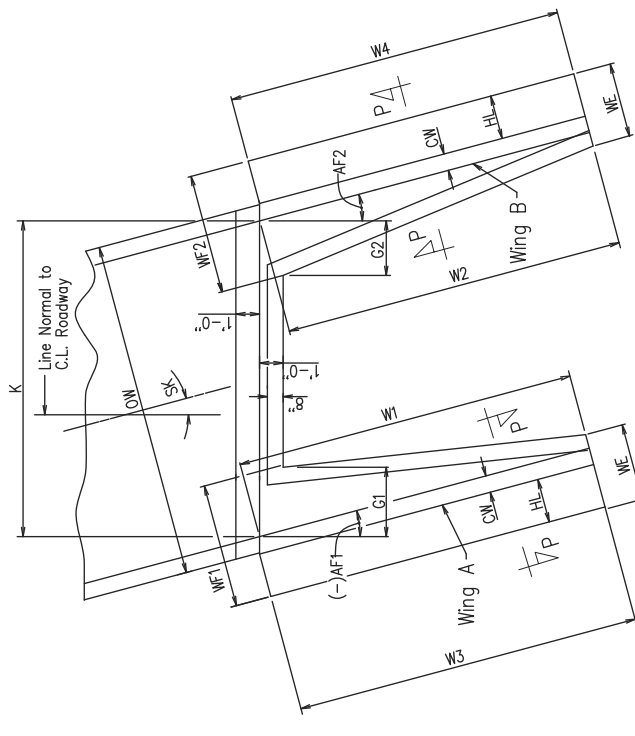
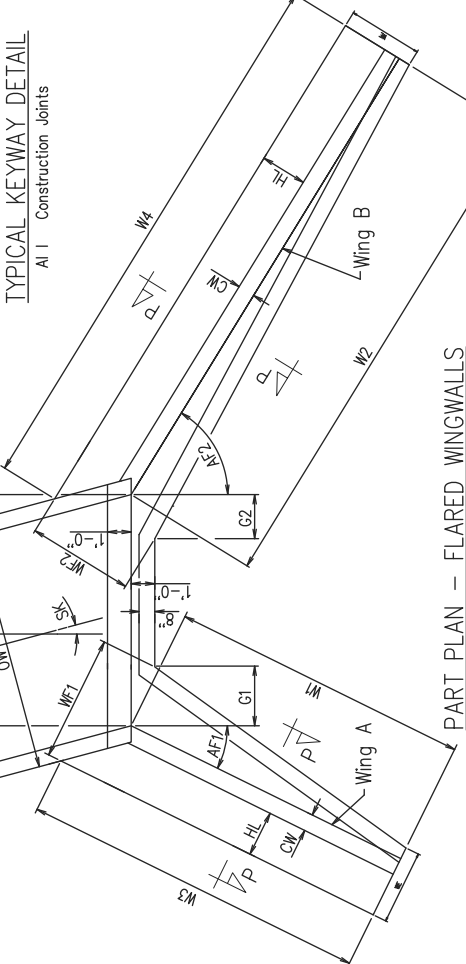
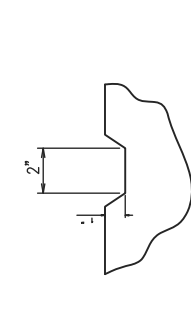
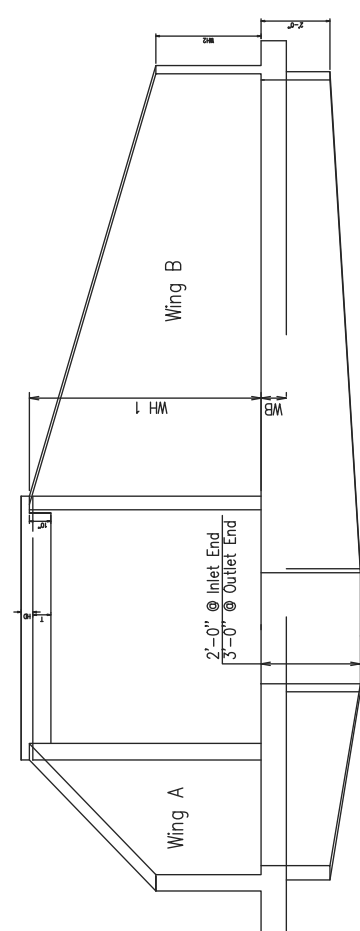
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CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD RECONSTRUCTION  
 SPECIAL DETAILS (4)

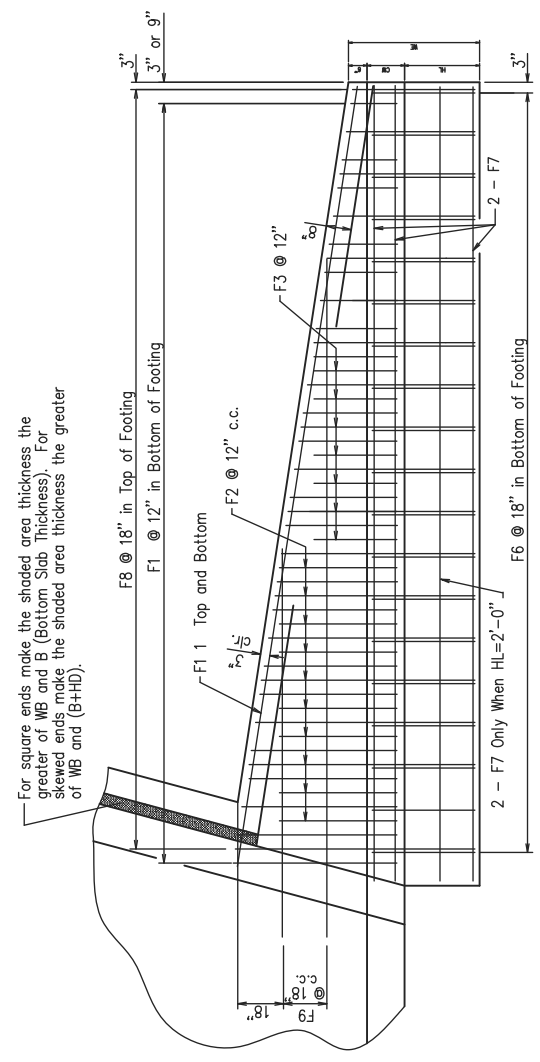
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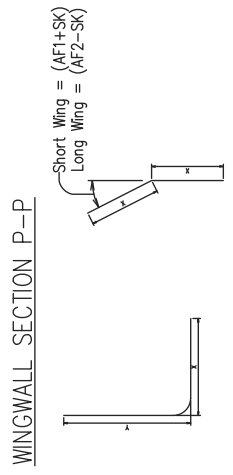
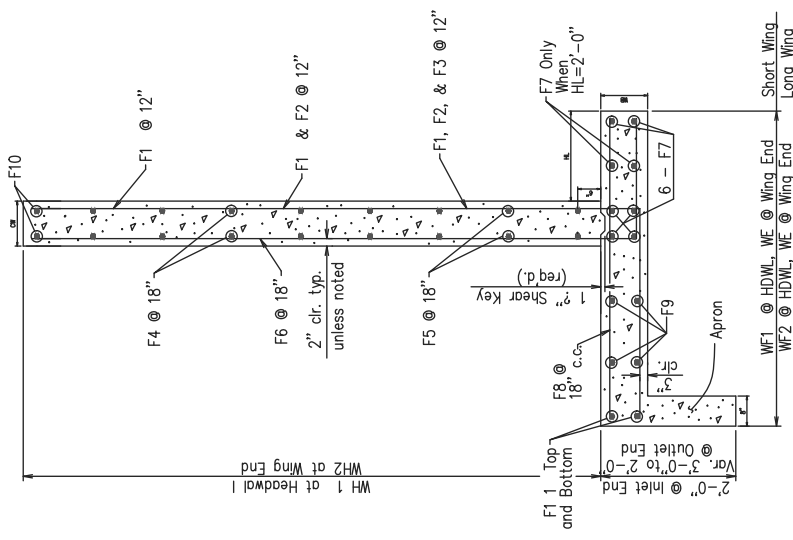
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SHEET NO.	C4.3



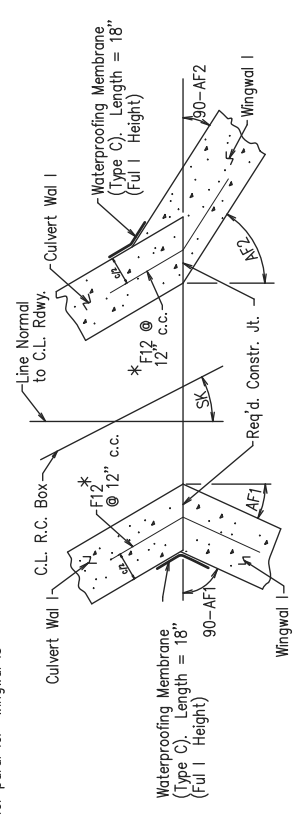
PLAN - FLARED WINGWALLS  
 Showing Footing Reinforcement



PLAN - PARALLEL WINGWALLS  
 Showing Footing Reinforcement



F1, F2, F3, & F6 BARS  
 \* F12 BAR



CONSTRUCTION JOINTS  
 Flared Wingwall is Shown

SHEET 4 OF 4  
 GENERAL DETAILS OF R.C. BOX CULVERT  
 DETAILS OF WINGWALLS  
 SPECIAL DETAILS

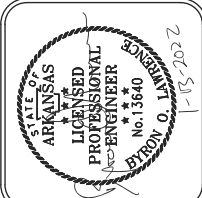




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CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD RECONSTRUCTION  
 SPECIAL DETAILS (6)

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TABULAR DATA BY: KLL DATE: 0/29/2020  
 CHECKED BY: BOL DATE: 0/30/2020

SHEET 2 OF 2  
 DETAILS OF R.C. BOX CULVERT  
 SINGLE BARREL BOX CULVERT  
 STA 16+82.47  
 SPECIAL DETAILS

The required number of bars and lengths shown are for estimating purpose only. The actual number and length required shall be determined in field.  
 Unless otherwise noted, all dimensions are in inches.

OVER ALL WIDTH	CLEAR HEIGHT	FOOTING THK.	WING WALL THK.	BOX SKEW (DEG.)	SLOPE	HDWL LENGTH	HEEL		WALL HEIGHT		WINGWALL ANGLE (DEGREE)		FOOTING WIDTH AT WALL END		WIDTH OF WING FOOTINGS AT HDWL		FOOTING DIMENSION PARALLEL WITH HDWL		LENGTH OF WING WALLS		LENGTH OF FOOTING HEEL		CLASS 'S' CONCRETE (includes apron)	REINFORCING STEEL (includes apron and laps if required)	
							NO. REQ'D	BAR SIZE	AT HDWL	AT WING END	WING A	WING B	WING A	WING B	WING A	WING B	WING A	WING B	WING A	WING B	WING A	WING B			WING A
5'-0"	4'-0"	0'-9"	0'-8"	0	3:1	4'-0"	HL	WH1	WH2	1'-4"	4'-10"	AF1	AF2	WE	2'-5 3/4"	WF1	WF2	G1	G2	W1	W2	W3	W4	4.68	460

OUTLET WINGWALL TABLE

SK	SL	D	S	H	LL	T	B	C	HD	OW	OH	TOP SLAB REINFORCING STEEL		BOTTOM SLAB REINFORCING STEEL		SIDE WALL REINFORCING STEEL		TOP SLAB DISTRIBUTION REINFORCING STEEL		BOTTOM SLAB DISTRIBUTION REINFORCING STEEL		SIDE WALL DISTRIBUTION REINFORCING STEEL		HEADWALL REINFORCING STEEL		CLASS 'S' CONCRETE	LBS. REINFORCING STEEL (GR 60)	
												NO. REQ'D	BAR SIZE	NO. REQ'D	BAR SIZE	NO. REQ'D	BAR SIZE	NO. REQ'D	BAR SIZE	NO. REQ'D	BAR SIZE	NO. REQ'D	BAR SIZE	NO. REQ'D	BAR SIZE			NO. REQ'D

OUTLET SKEWED END SECTION

D	S	H	T	B	C	OW	OH	SL	TOP SLAB REINFORCING STEEL		BOTTOM SLAB REINFORCING STEEL		SIDE WALL REINFORCING STEEL		TOP SLAB DISTRIBUTION REINFORCING STEEL		BOTTOM SLAB DISTRIBUTION REINFORCING STEEL		SIDE WALL DISTRIBUTION REINFORCING STEEL		CLASS 'S' CONCRETE	LBS. REINFORCING STEEL (GR 60)	
									NO. REQ'D	BAR SIZE	NO. REQ'D	BAR SIZE	NO. REQ'D	BAR SIZE	NO. REQ'D	BAR SIZE	NO. REQ'D	BAR SIZE	NO. REQ'D	BAR SIZE			NO. REQ'D

OUTLET SLOPE SECTION(S)

#	Length
#4	1'-9"
#5	2'-2"
#6	2'-7"
#7	3'-6"
#8	4'-7"

#	Pin Dia.
#4	3"
#5	3 3/4"
#6	4 1/2"
#7	5 1/4"
#8	6"

Any Bar Lap Required for the Skewed End Section shall be considered subsidiary to the item "Reinforcing Steel -- Roadway (Grade 60)."

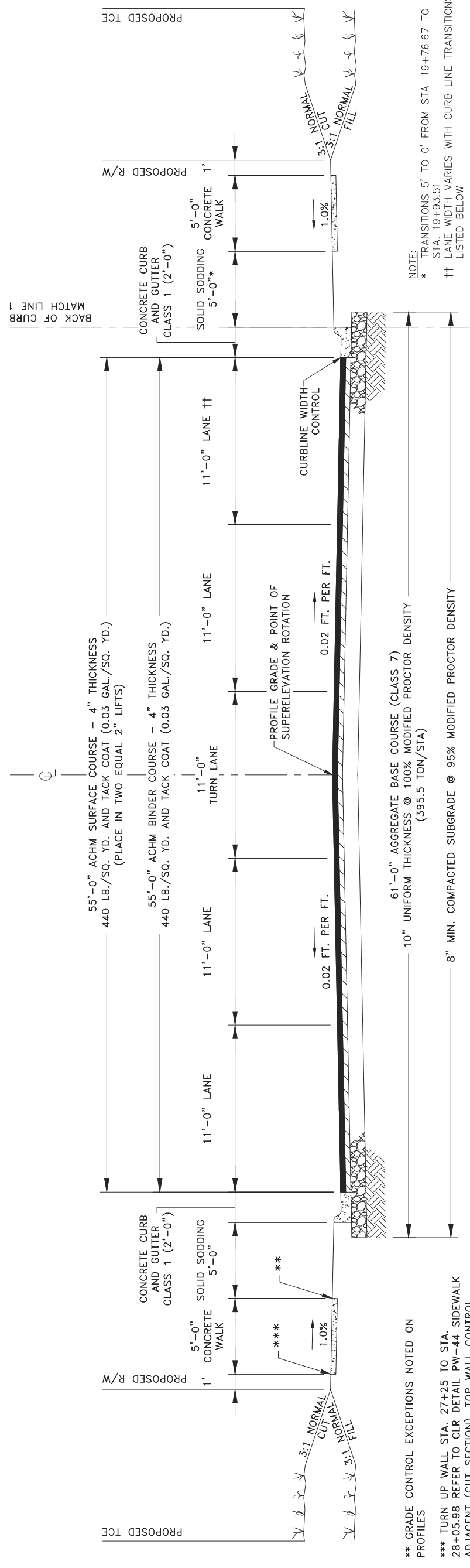
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 BOWMAN ROAD RECONSTRUCTION  
 TYPICAL SECTIONS (1)

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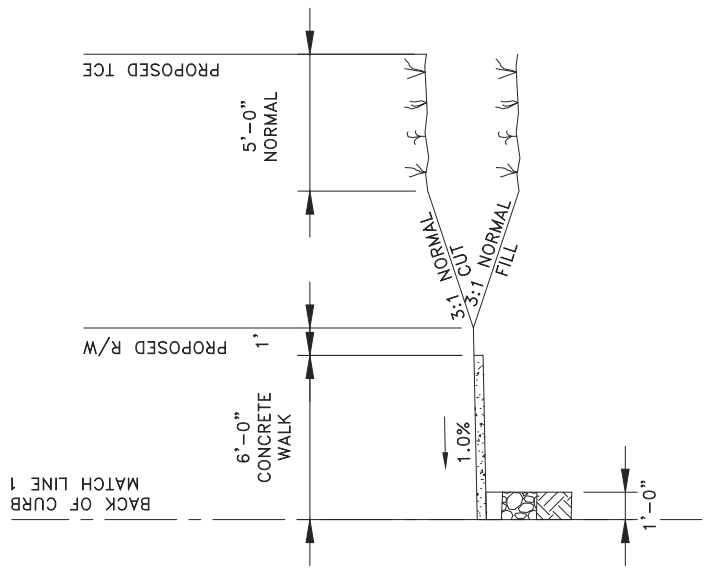
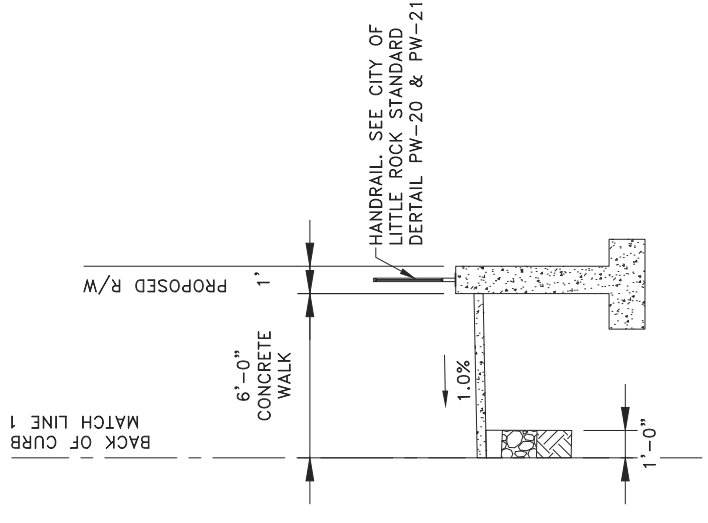


\*\* GRADE CONTROL EXCEPTIONS NOTED ON PROFILES  
 \*\*\* TURN UP WALL STA. 27+25 TO STA. 28+05.98 REFER TO CLR DETAIL PW-44 SIDEWALK ADJACENT (CUT SECTION). TOP WALL CONTROL NOTED ON PROFILE.

NOTE:  
 \* TRANSITIONS 5' TO 0' FROM STA. 19+76.67 TO STA. 19+93.51  
 †† LANE WIDTH VARIES WITH CURB LINE TRANSITIONS LISTED BELOW

## TYPICAL SECTION - BOWMAN ROAD

STA. 15+91.12 TO STA. 19+93.51  
 STA. 19+93.51 TO STA. 21+93.79 LT. OF MATCH LINE 1



## CURB LINE WIDTH TRANSITIONS

- 27.50' @ STA. 25+68.70 RT.
- 27.63' @ STA. 25+97.82 RT.
- 49.30' @ STA. 28.22.71 RT.
- 49.50' @ STA. 28.56.80 RT.
- 49.50' TO STA. 29+98.54 RT.

## TYPICAL SECTION - BOWMAN ROAD

STA. 21+50.00 TO STA. 21+93.79

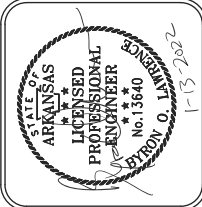
## TYPICAL SECTION - BOWMAN ROAD

STA. 19+93.51 TO STA. 21+50.00 RT OF MATCH LINE 1

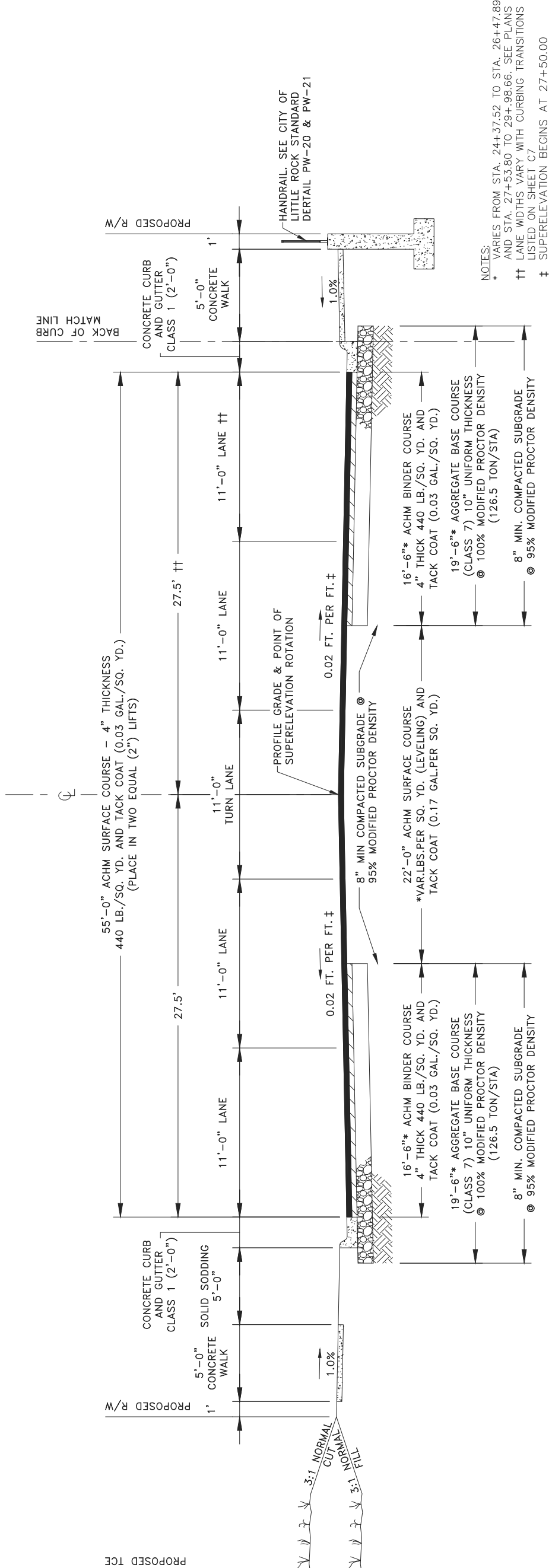
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CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD RECONSTRUCTION  
 TYPICAL SECTIONS (2)

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NOTES:  
 \* VARIES FROM STA. 24+37.52 TO STA. 26+47.89 AND STA. 27+53.80 TO 29+98.66. SEE PLANS  
 †† LANE WIDTHS VARY WITH CURBING TRANSITIONS LISTED ON SHEET C7  
 ‡ SUPERELEVATION BEGINS AT 27+50.00

## TYPICAL SECTION - BOWMAN ROAD

STA 21+93.79 TO STA. 27+75.26



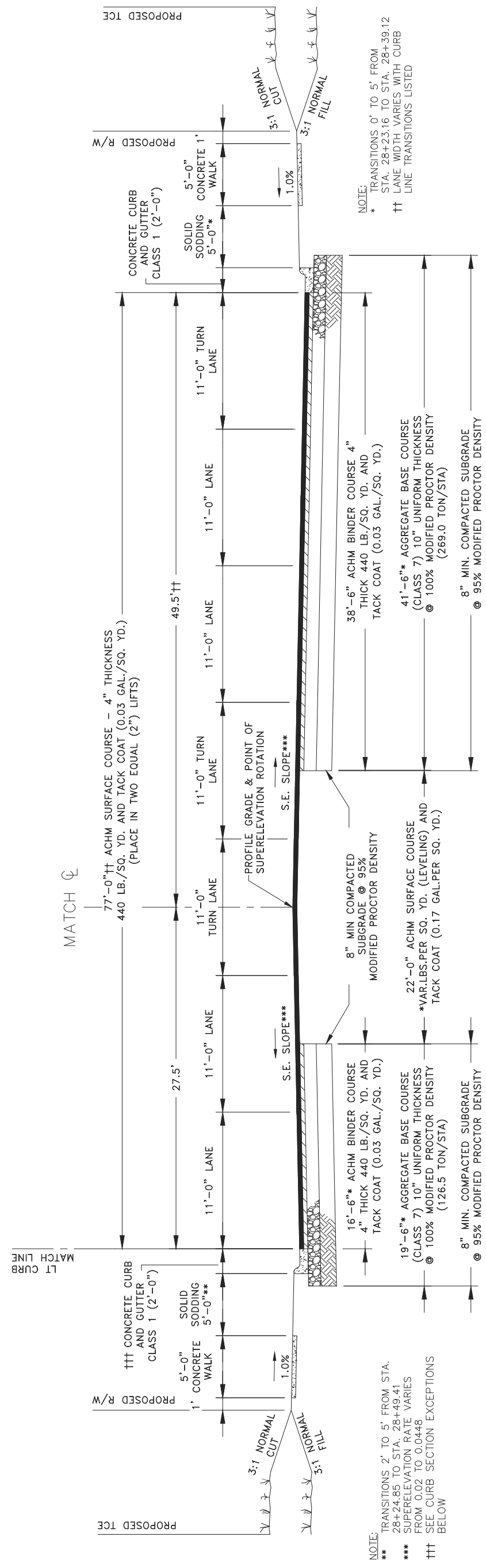
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
**BOWMAN ROAD RECONSTRUCTION**  
 TYPICAL SECTIONS (3)

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

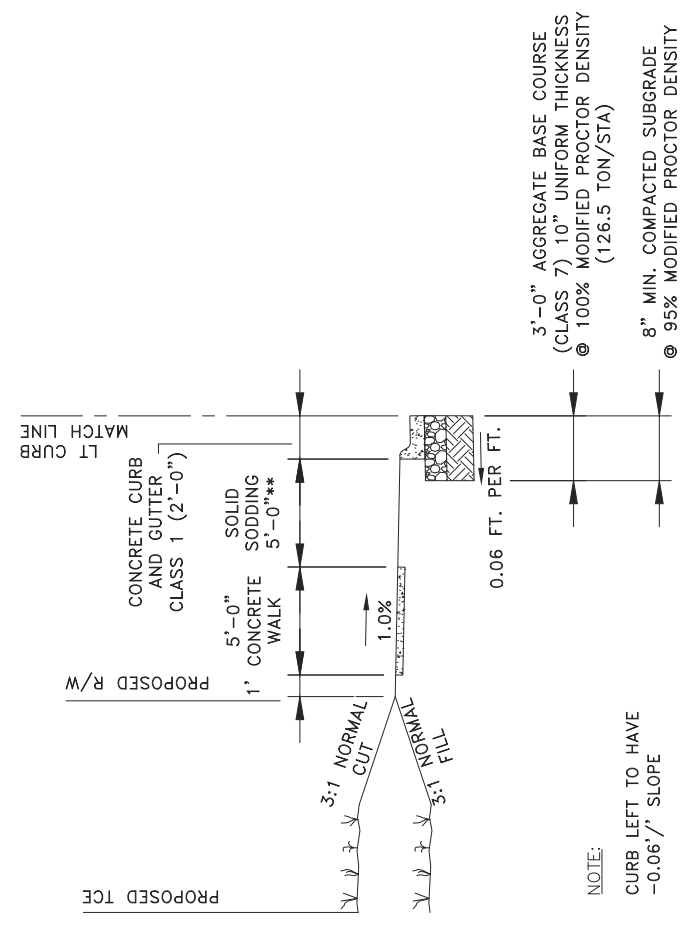


DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	N.T.S.
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C5.2



## TYPICAL SECTION - BOWMAN ROAD

STA. 27+75.26 TO 29+98.54



## CURB LT. - BOWMAN ROAD (EXCEPTIONS)

STA. 27+50.00 TO 29+98.54 LT.

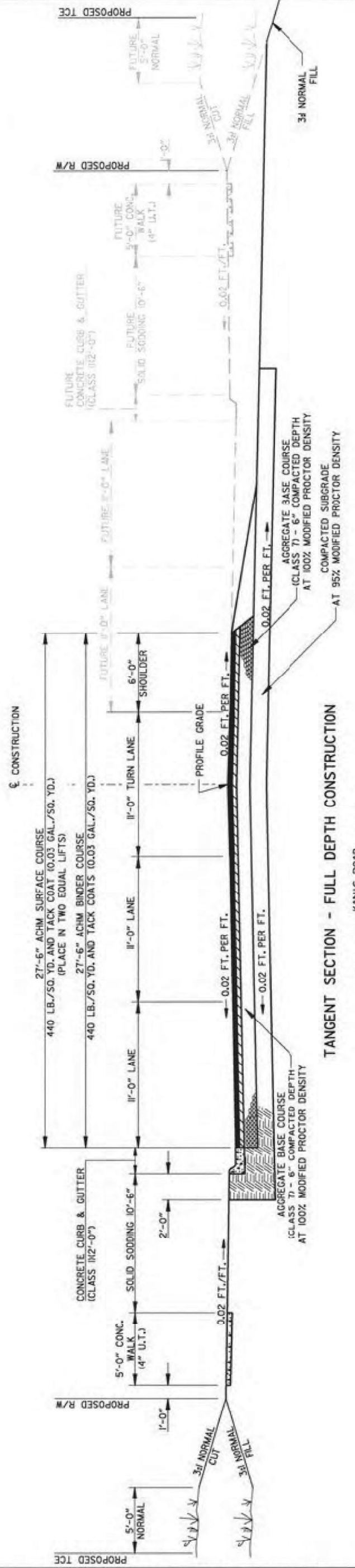
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD  
TYPICAL SECTION SHEET 1

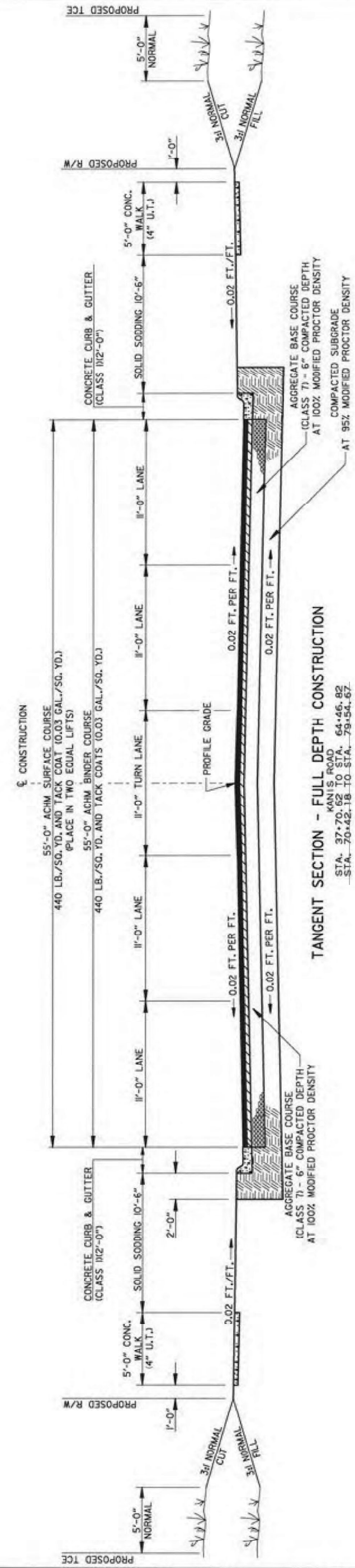
DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201



DRAWN BY	
DESIGNED	
REFR	
CHECKED	
KGT	
DATE	02/24/17
SCALE	1" = 8'
PROJECT NO.	13-B-5D-6A
SHEET NO.	C5.3




NOTE:  
1) REFER TO PW-24, PW-28, PW-41, & PW-42 OF THE STANDARD DETAILS FOR ADDITIONAL INFORMATION.  
2) REFER TO PLAN SHEETS AND CROSS SECTION FOR DEVIATIONS.



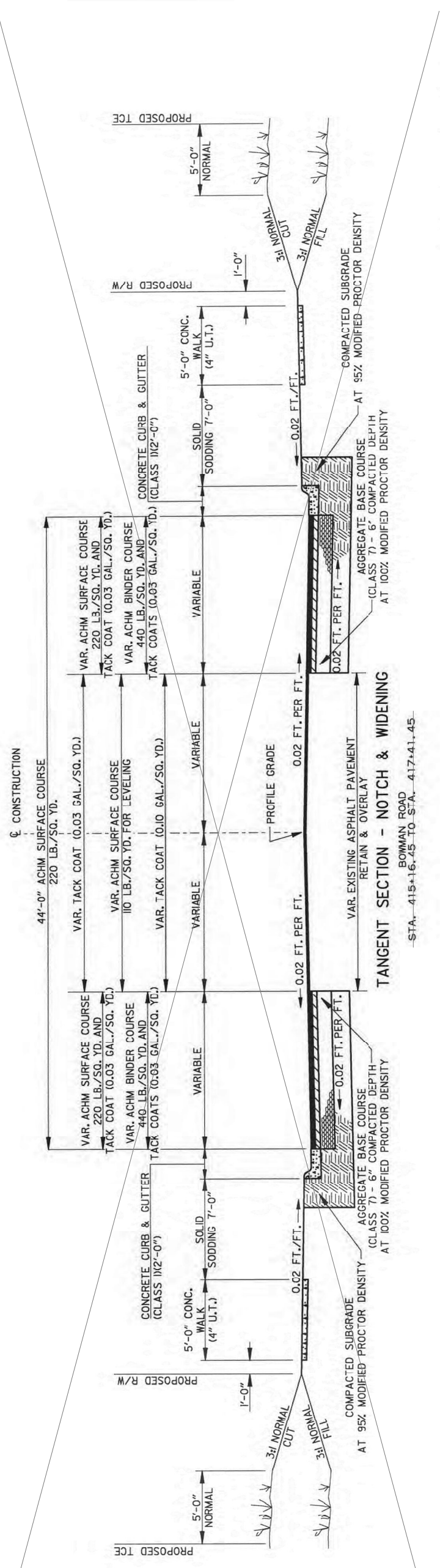
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**KANIS ROAD**  
**TYPICAL SECTION SHEET 4**


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

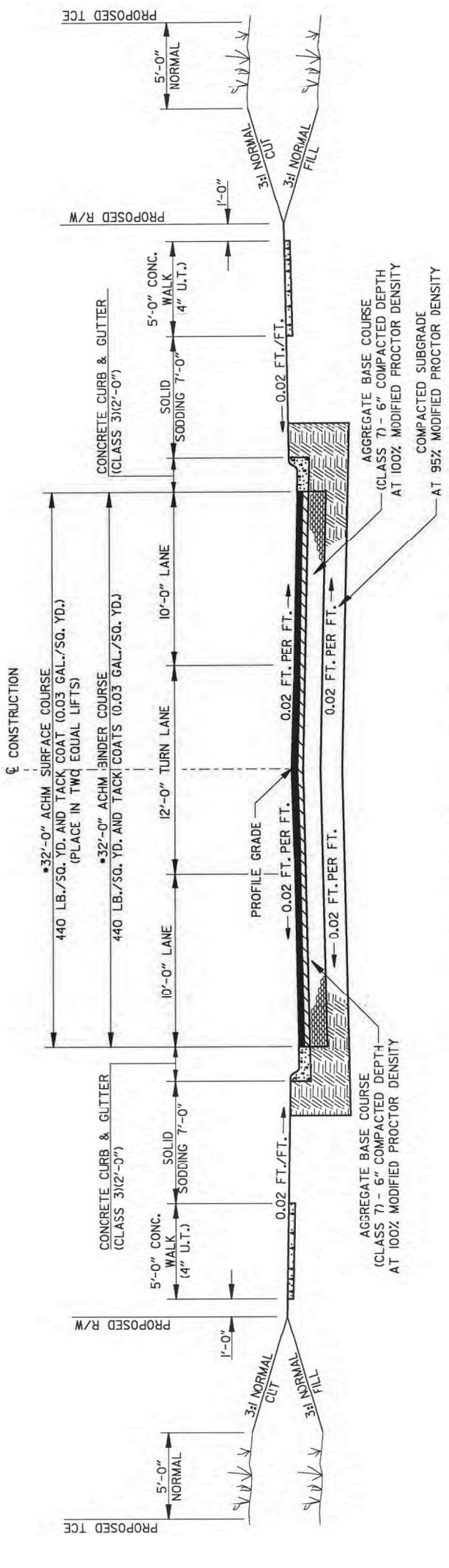


<b>DRAWN BY</b>	1-5-16
<b>RFI</b>	
<b>DESIGNED</b>	
<b>RFI</b>	
<b>CHECKED</b>	
<b>KG</b>	
<b>DATE</b>	12/18/15
<b>SCALE</b>	1" = 8'
<b>PROJECT NO.</b>	13-B-5D-6A
<b>SHEET NO.</b>	C5.4



NOTE:  
 1) REFER TO PW-24, PW-28, PW-41, & PW-42 OF THE STANDARD DETAILS FOR ADDITIONAL INFORMATION.  
 2) REFER TO PLAN SHEETS AND CROSS SECTION FOR DEVIATIONS.

•CENTER VIEW DRIVE - VARIABLE  
 EMBASSY SUITES DRIVE - VARIABLE



**TANGENT SECTION COLLECTOR - FULL DEPTH CONSTRUCTION**

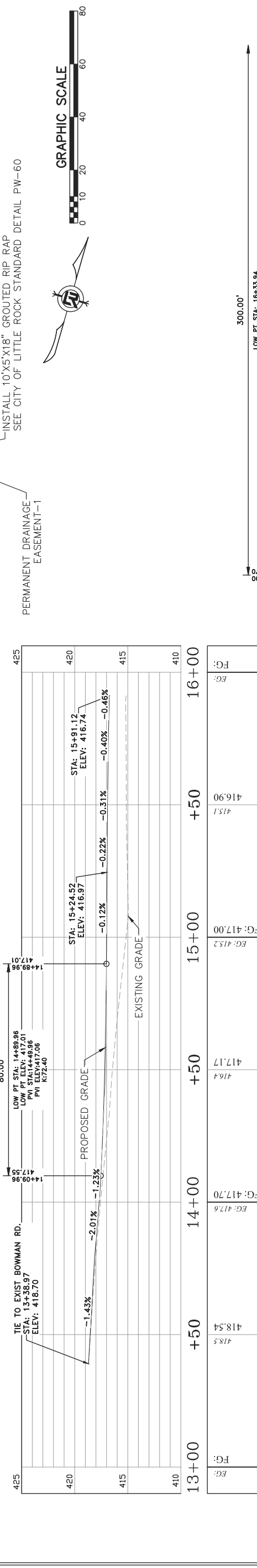
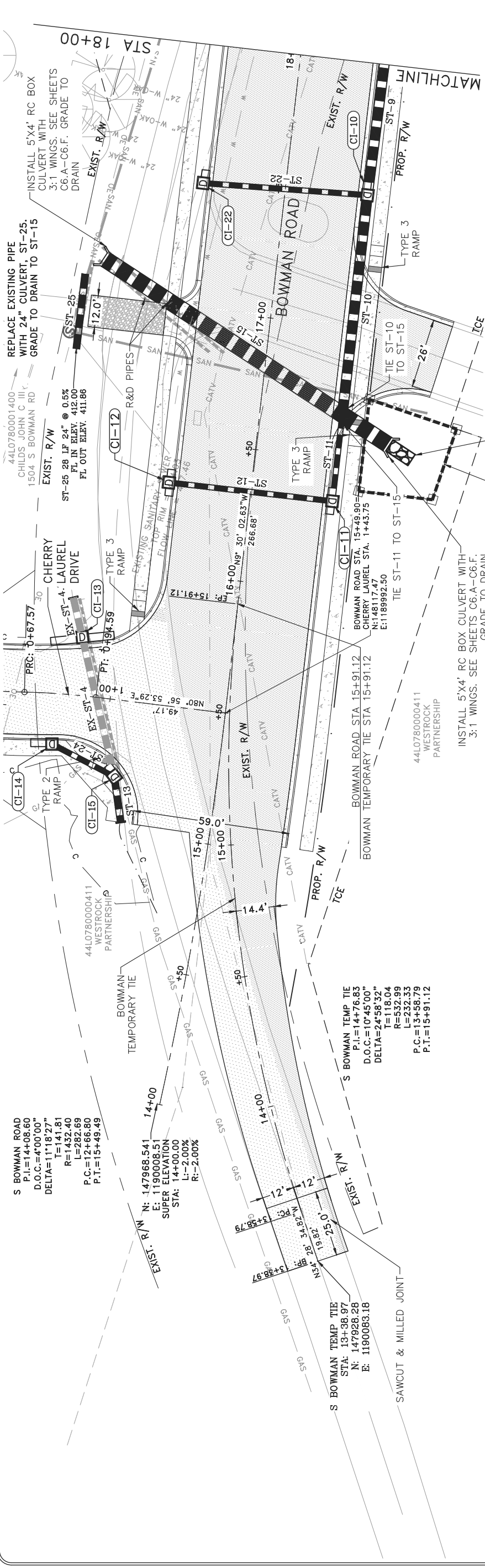
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**PLAN AND PROFILE SHEET (0)**

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C6.0



Station	EG	FG	Structure
13+00	418.54	418.54	TIE TO EXIST BOWMAN RD. STA: 13+38.97 ELEV: 418.70
14+00	417.70	417.70	EG: 417.70
14+00	416.4	417.17	ST-13 15 LF 24" RCP @ -1.2% SIDE DRAIN LT. STA: 14+00.00 ELEV: 417.06
15+00	416.90	416.90	EG: 416.90
15+00	416.94	415.1	ST-13 15 LF 24" RCP @ -1.2% SIDE DRAIN LT. STA: 15+00.00 ELEV: 416.97
16+00	416.70	416.70	EG: 416.70
16+00	416.64	413.9	ST-12 58 LF 18" RCP @ 1.1% SIDE DRAIN RT. STA: 16+00.00 ELEV: 416.58
17+00	416.93	413.5	ST-11 31 LF 18" RCP @ 1.3% SIDE DRAIN RT. STA: 17+00.00 ELEV: 416.58
17+00	417.56	413.5	ST-10 81 LF 36" RCP @ 1.5% SIDE DRAIN RT. STA: 17+00.00 ELEV: 417.51
18+00	418.53	413.1	ST-9 17 LF 18" RCP @ 1.5% SIDE DRAIN RT. STA: 18+00.00 ELEV: 417.51

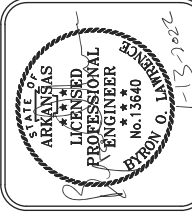


S BOWMAN ROAD

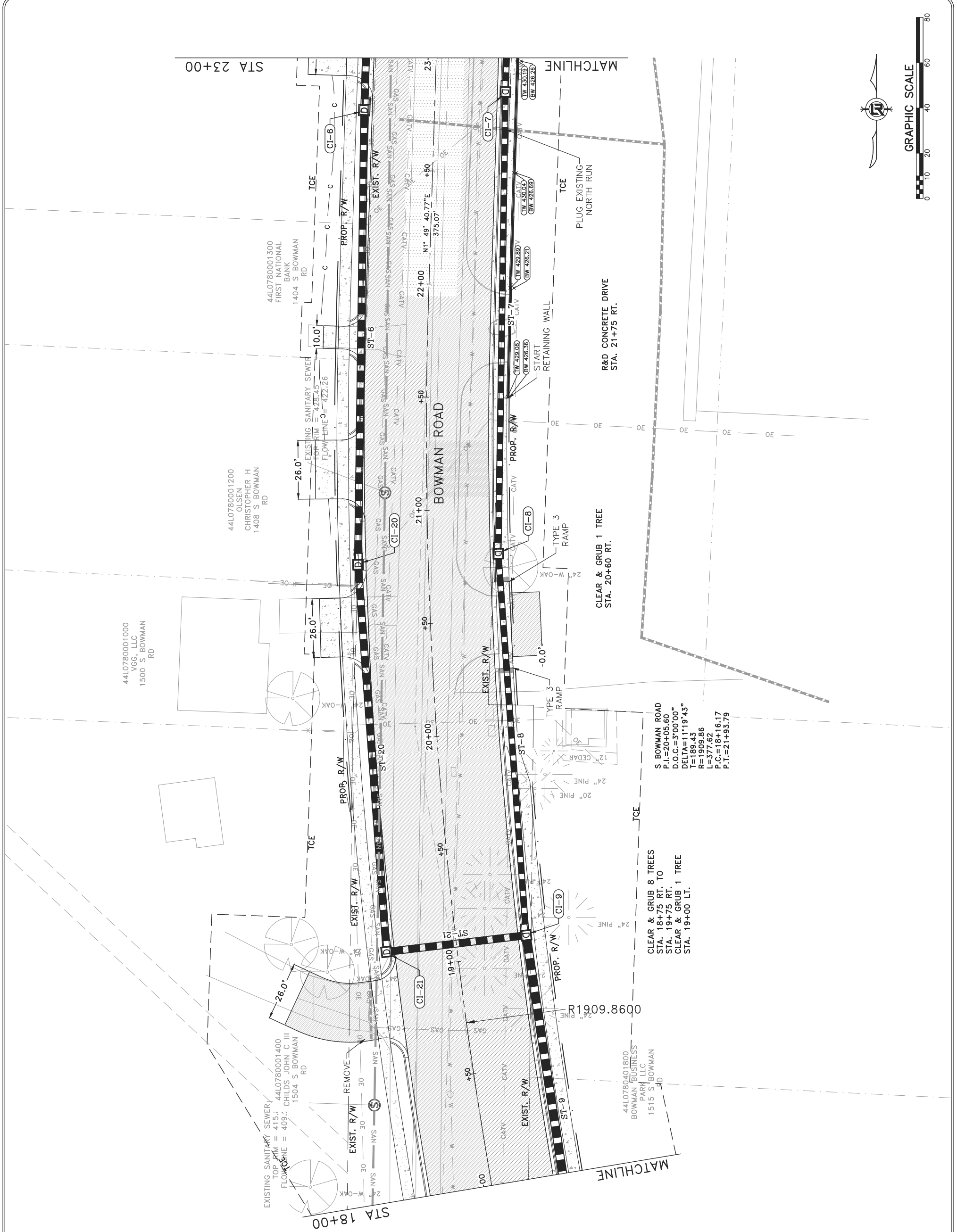
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**PLAN AND PROFILE SHEET (1)**

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C6.1



44L0780001000  
 YGG, LLC  
 1500 S BOWMAN  
 RD

44L0780001200  
 OLSEN  
 CHRISTOPHER H  
 1408 S BOWMAN  
 RD

EXISTING SANITARY SEWER  
 TOP RIM = 415.1  
 FLOWLINE = 409.2  
 44L0780001400  
 CHILDS JOHN C III  
 1504 S BOWMAN  
 RD

REMOVE  
 EXIST. R/W  
 NYS  
 30

CLEAR & GRUB 8 TREES  
 STA. 18+75 RT. TO  
 STA. 19+75 RT.  
 CLEAR & GRUB 1 TREE  
 STA. 19+00 LT.

S BOWMAN ROAD  
 P.I.=20+05.60  
 D.O.C.=37'00"00"  
 DELTA=11'19'43"  
 I=189.45  
 R=1909.86  
 L=377.62  
 P.C.=18+16.17  
 P.T.=21+93.79

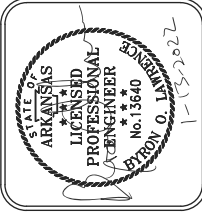
44L0780401800  
 BOWMAN BUSINESS  
 PARK LLC  
 1515 S BOWMAN  
 RD



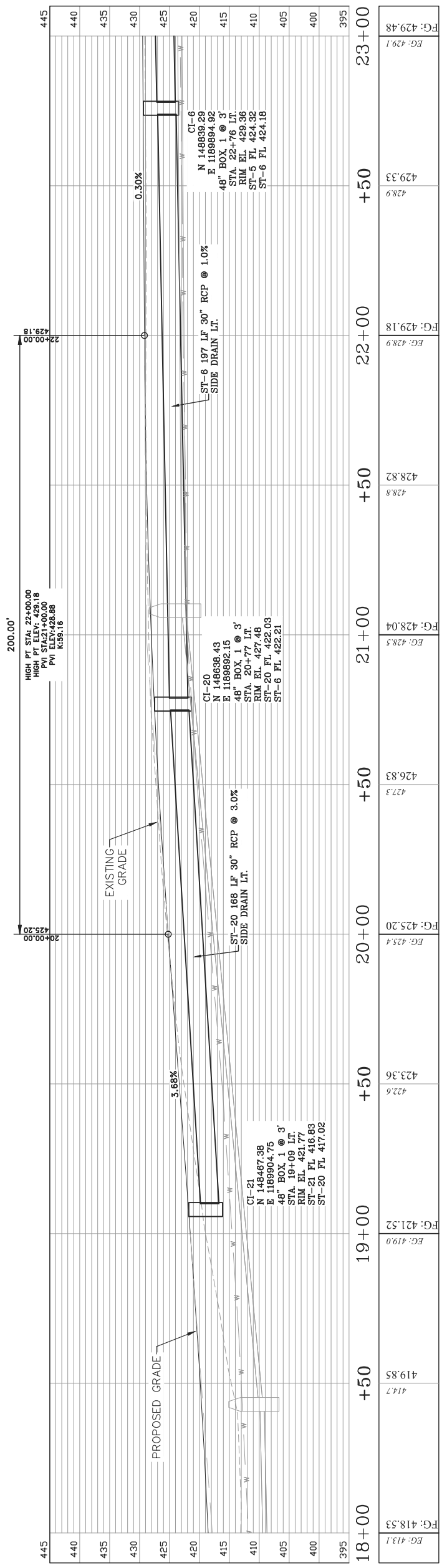
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD RECONSTRUCTION  
 PLAN AND PROFILE SHEET (2)

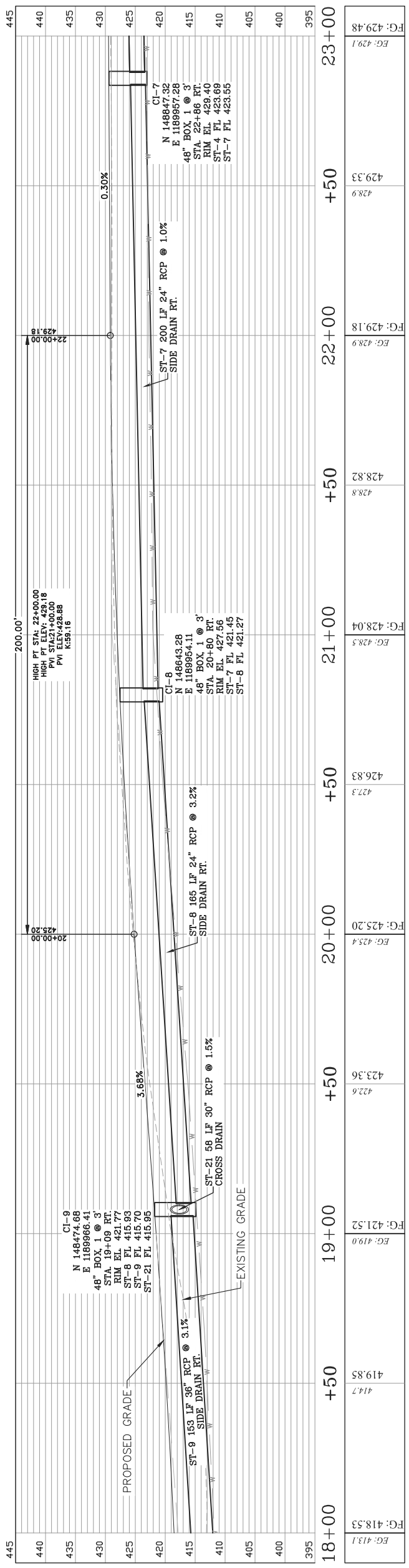
DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C6.2



S BOWMAN ROAD LT



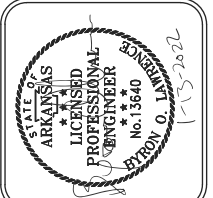
S BOWMAN ROAD RT



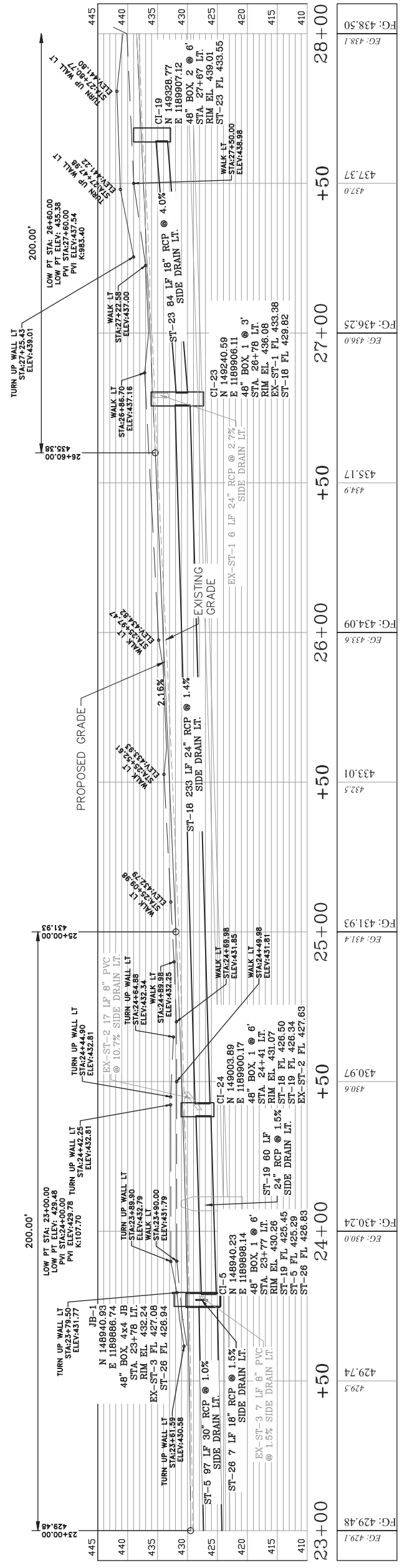
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**PLAN AND PROFILE SHEET (4)**

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



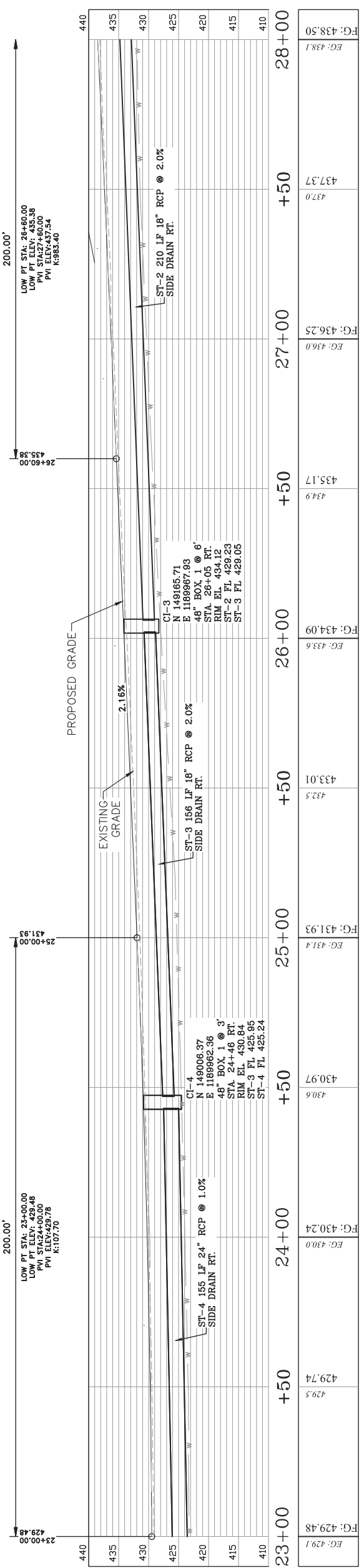
DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	<b>C6.4</b>



Station	EG: 429.48	EG: 429.74	EG: 430.24	EG: 430.97	EG: 431.93	EG: 433.01	EG: 434.09	EG: 435.17	EG: 436.25	EG: 437.37	EG: 438.50
23+00	429.48	429.74	430.24	430.97	431.93	433.01	434.09	435.17	436.25	437.37	438.50
24+00	429.5	430.6	431.4	432.5	433.6	434.9	436.0	437.0	438.1	439.1	440.0
25+00	429.5	430.6	431.4	432.5	433.6	434.9	436.0	437.0	438.1	439.1	440.0
26+00	429.5	430.6	431.4	432.5	433.6	434.9	436.0	437.0	438.1	439.1	440.0
27+00	429.5	430.6	431.4	432.5	433.6	434.9	436.0	437.0	438.1	439.1	440.0
28+00	429.5	430.6	431.4	432.5	433.6	434.9	436.0	437.0	438.1	439.1	440.0

**S BOWMAN ROAD LT**

STA. 27+50.00 - BEGIN SUPERELEVATION  
 STA. 29+00.00 - REVERSE CROWN RT.  
 STA. 30+00.00 - MAX SUPERELEVATION RT. (0.0448'/' )



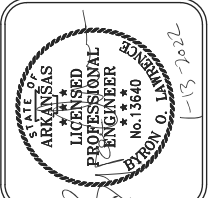
**S BOWMAN ROAD RT**



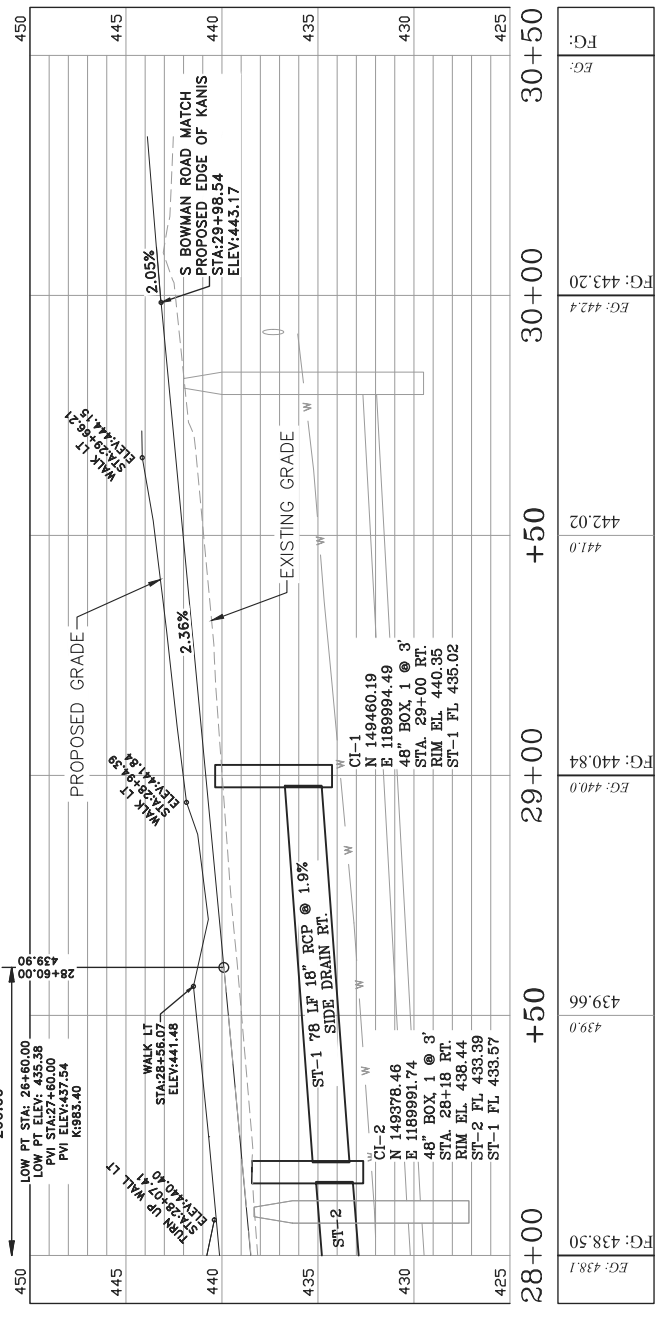
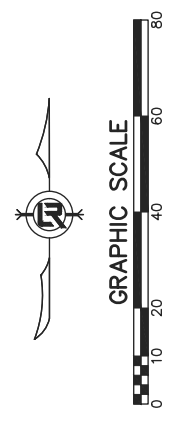
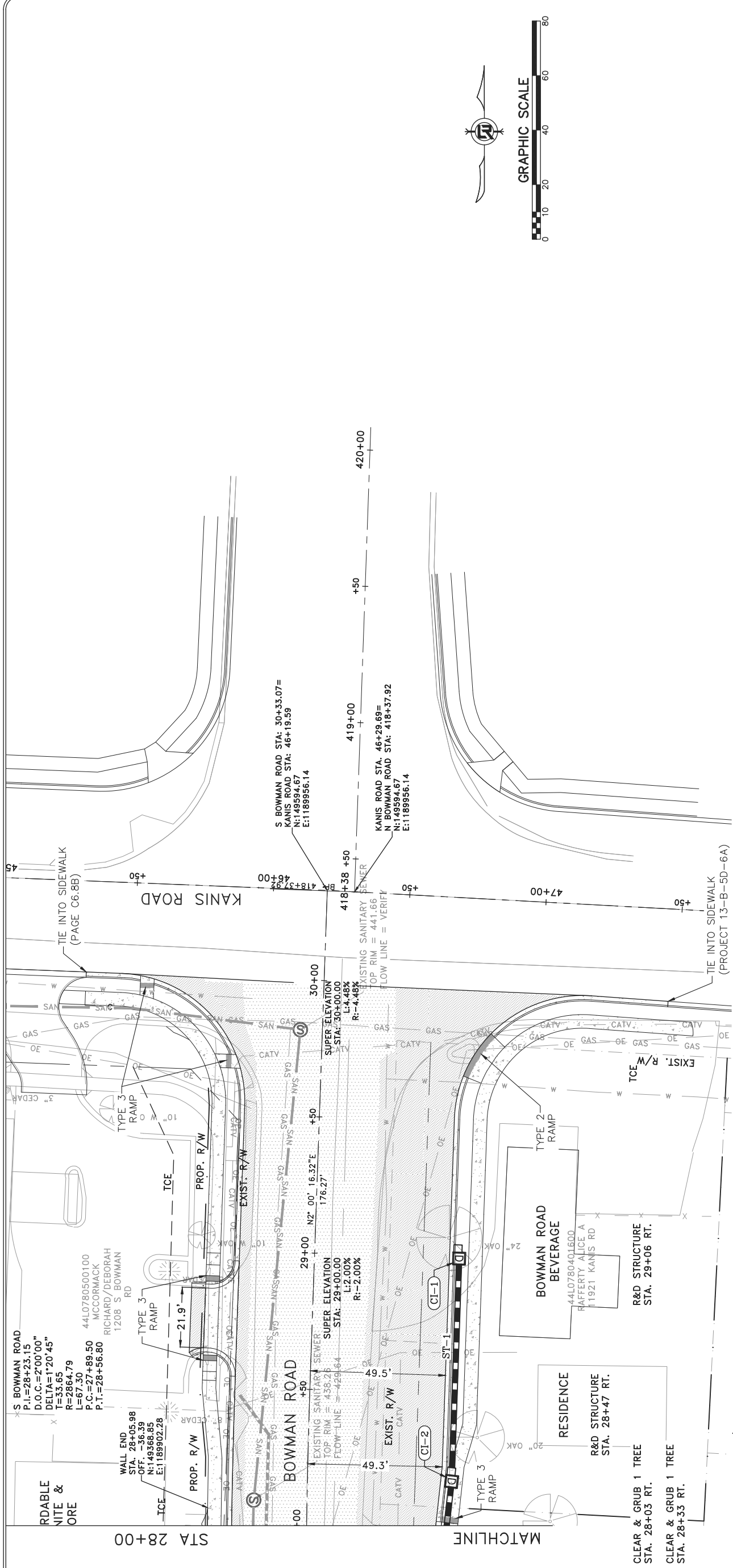
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**PLAN AND PROFILE SHEET (5)**

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	<b>C6.5</b>



**S BOWMAN ROAD**

EG: 438.50	28+00	439.66	+50	441.0	+50	442.02	30+00	443.20	30+50	EG: 443.20
EG: 438.1	28+00	439.66	+50	441.0	+50	442.02	30+00	443.20	30+50	EG: 443.20

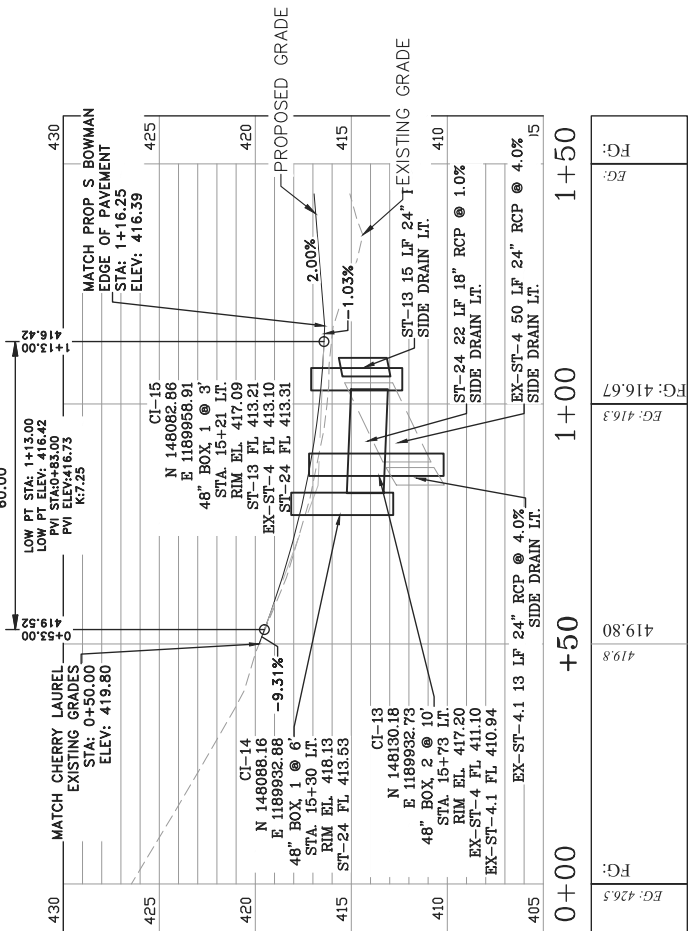
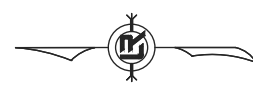
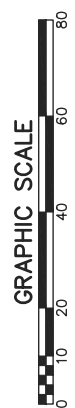
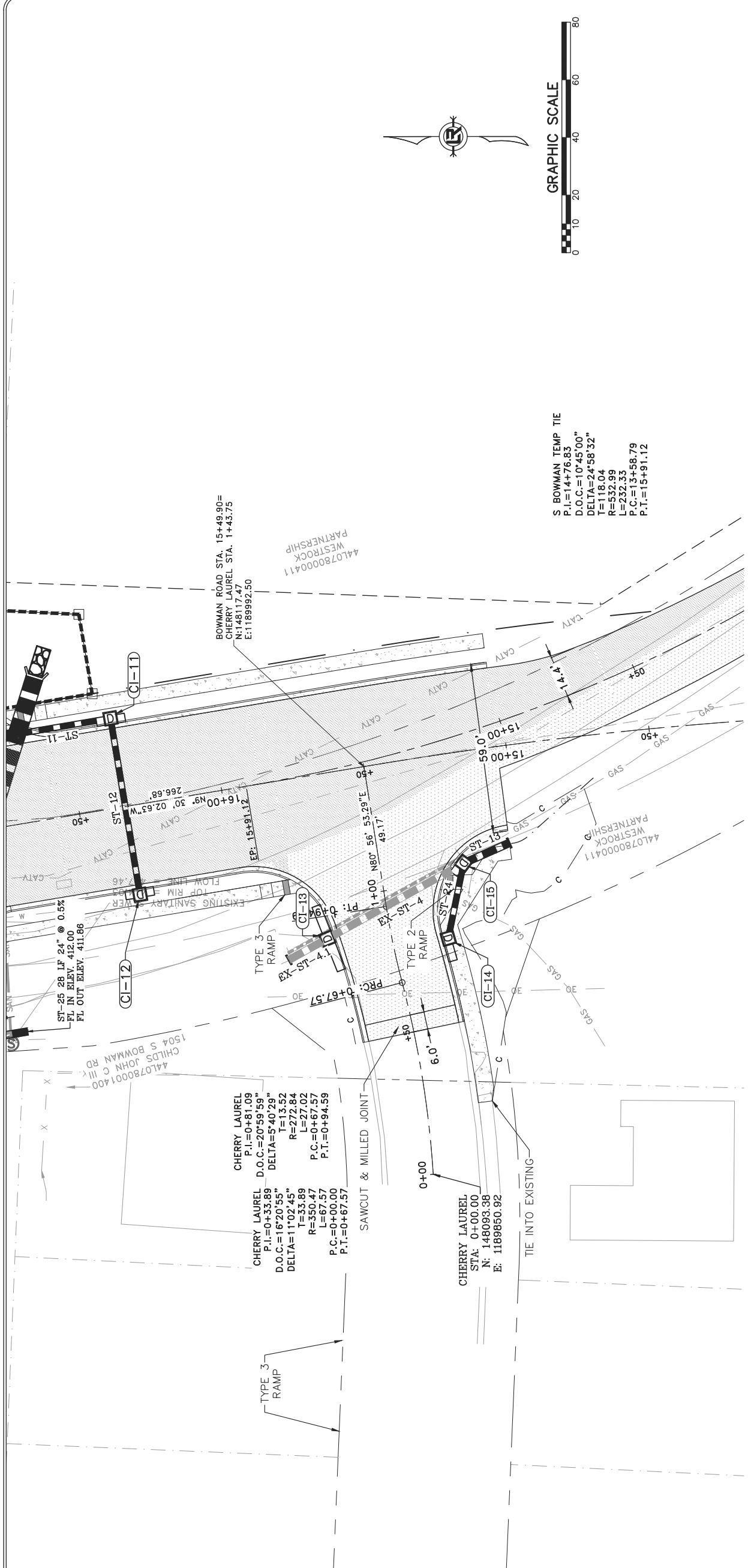
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS  
BOWMAN ROAD RECONSTRUCTION  
PLAN AND PROFILE SHEET (6)**

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	<b>C6.6</b>




**CHERRY LAUREL**

REVISIONS	DATE

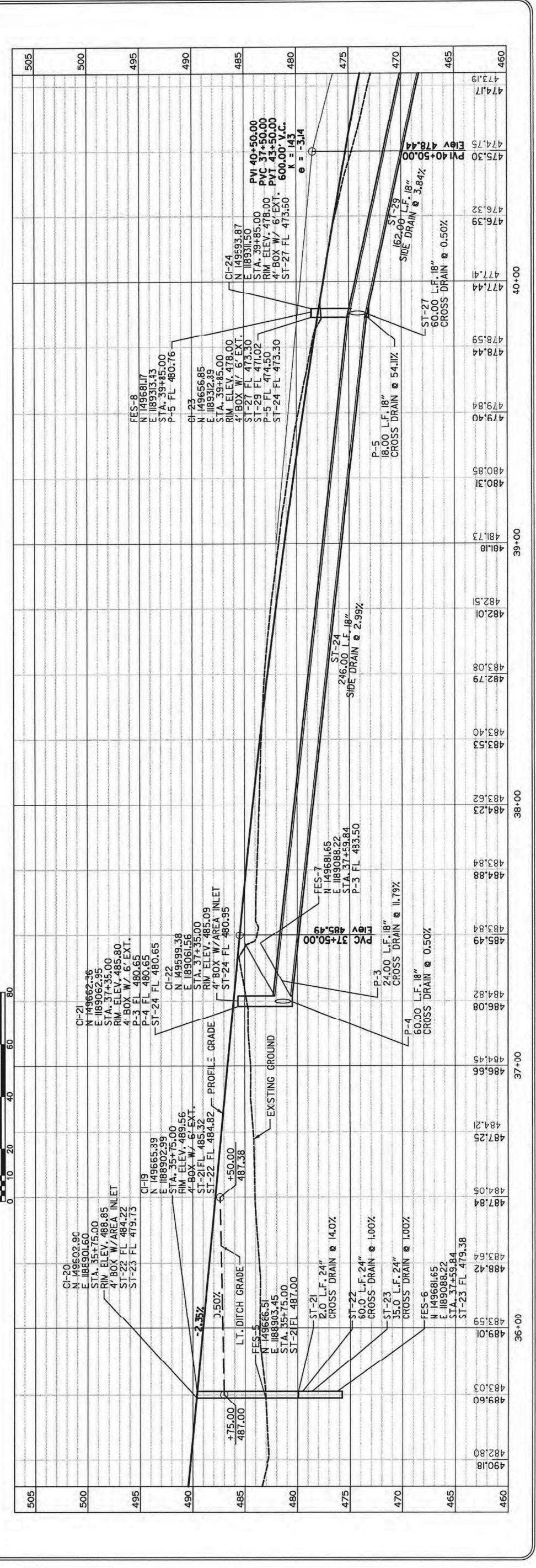
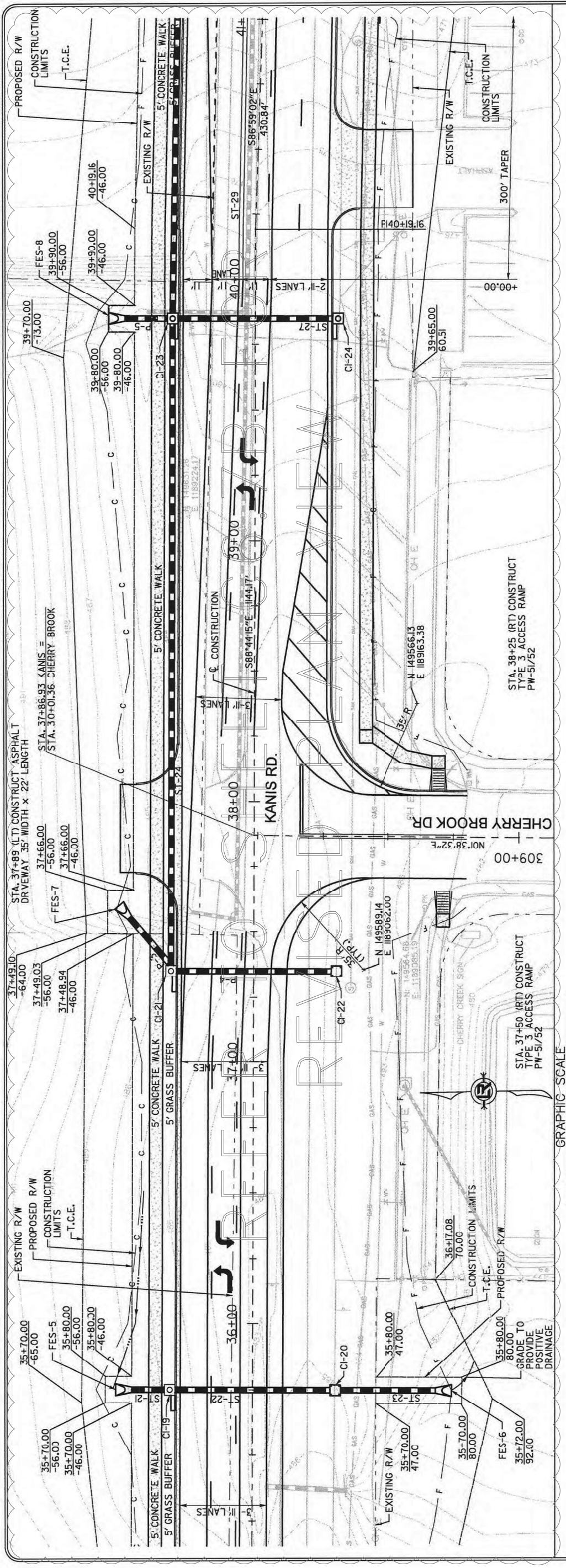
CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD  
PLAN & PROFILE  
KANIS ROAD SHEET 6

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



STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
No. 11427  
MAKAY G. TOLBERT

DRAWN BY	RFR
DESIGNED	RFR
CHECKED	KGT
DATE	2/24/17
SCALE	1" = 40'
PROJECT NO.	13-B-5D-6A
SHEET NO.	C6.7A

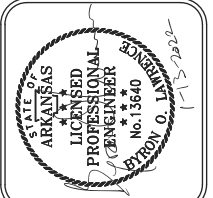


DESIGN BY KEVIN TOBESKY

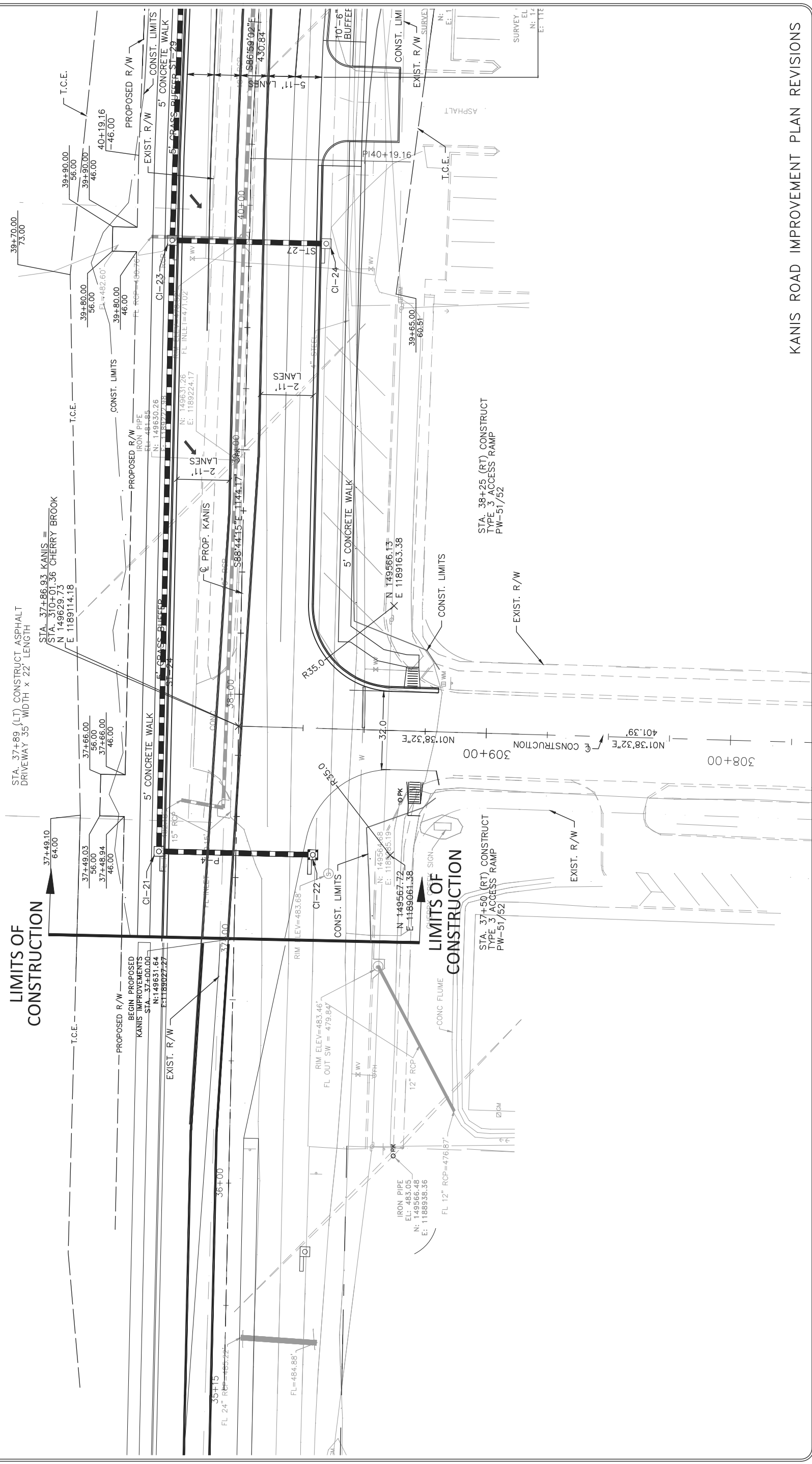
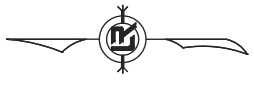
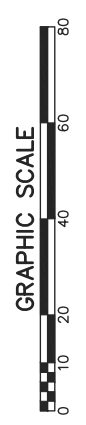
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**PLAN SHEET**

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




<b>DRAWN BY</b>	
<b>KLL</b>	
<b>DESIGNED</b>	
<b>COF</b>	
<b>CHECKED</b>	
<b>BOL</b>	
<b>DATE</b>	12-11-2020
<b>SCALE</b>	H: 1"=20' V: 1"=5'
<b>PROJECT NO.</b>	CLR 6-15-ST-249
<b>SHEET NO.</b>	<b>C6.7B</b>



KANIS ROAD IMPROVEMENT PLAN REVISIONS

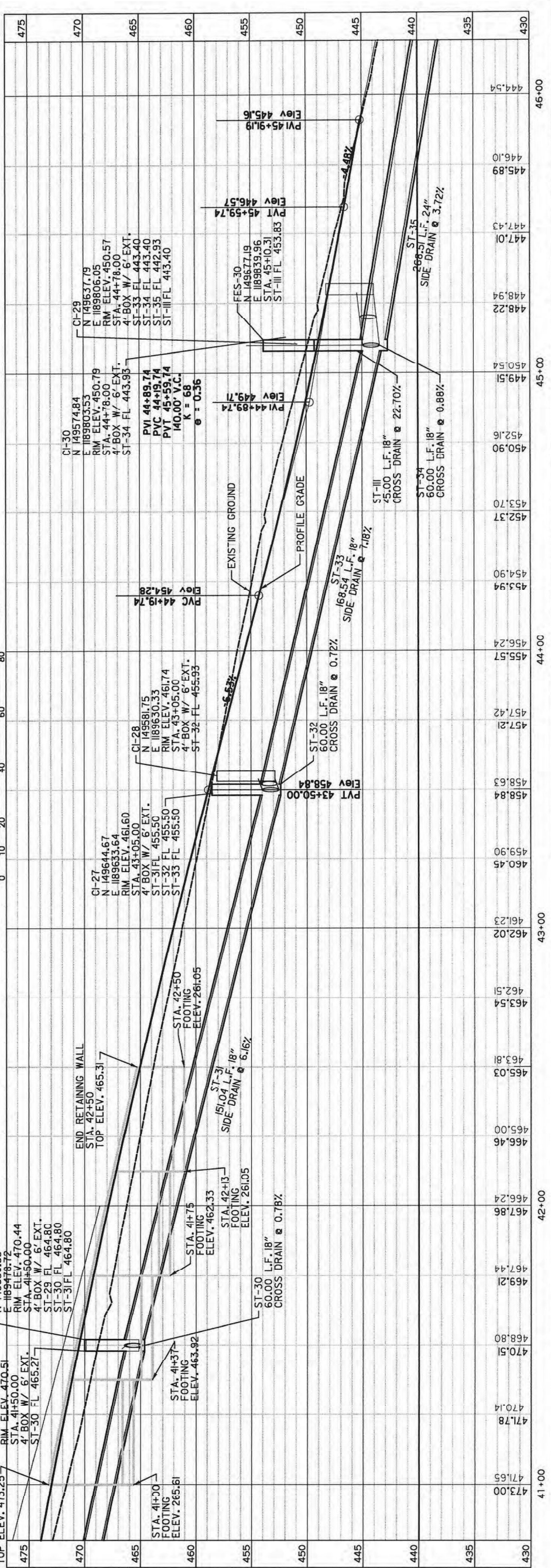
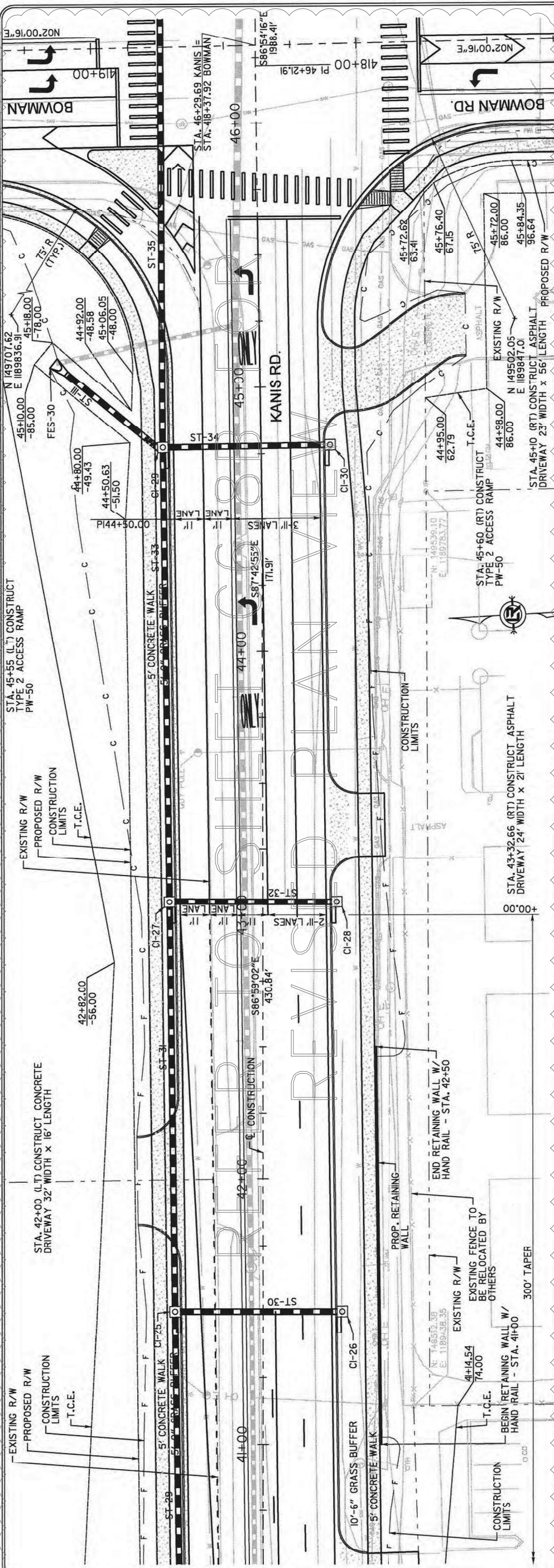
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**KANIS ROAD**  
**PLAN & PROFILE**  
**KANIS ROAD SHEET 7**


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



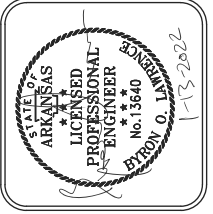
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<b>DESIGNED</b>	
<b>CHECKED</b>	
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<b>DATE</b>	2/24/17
<b>SCALE</b>	1" = 40'
<b>PROJECT NO</b>	13-B-5D-8A
<b>SHEET NO.</b>	<b>C6.8A</b>



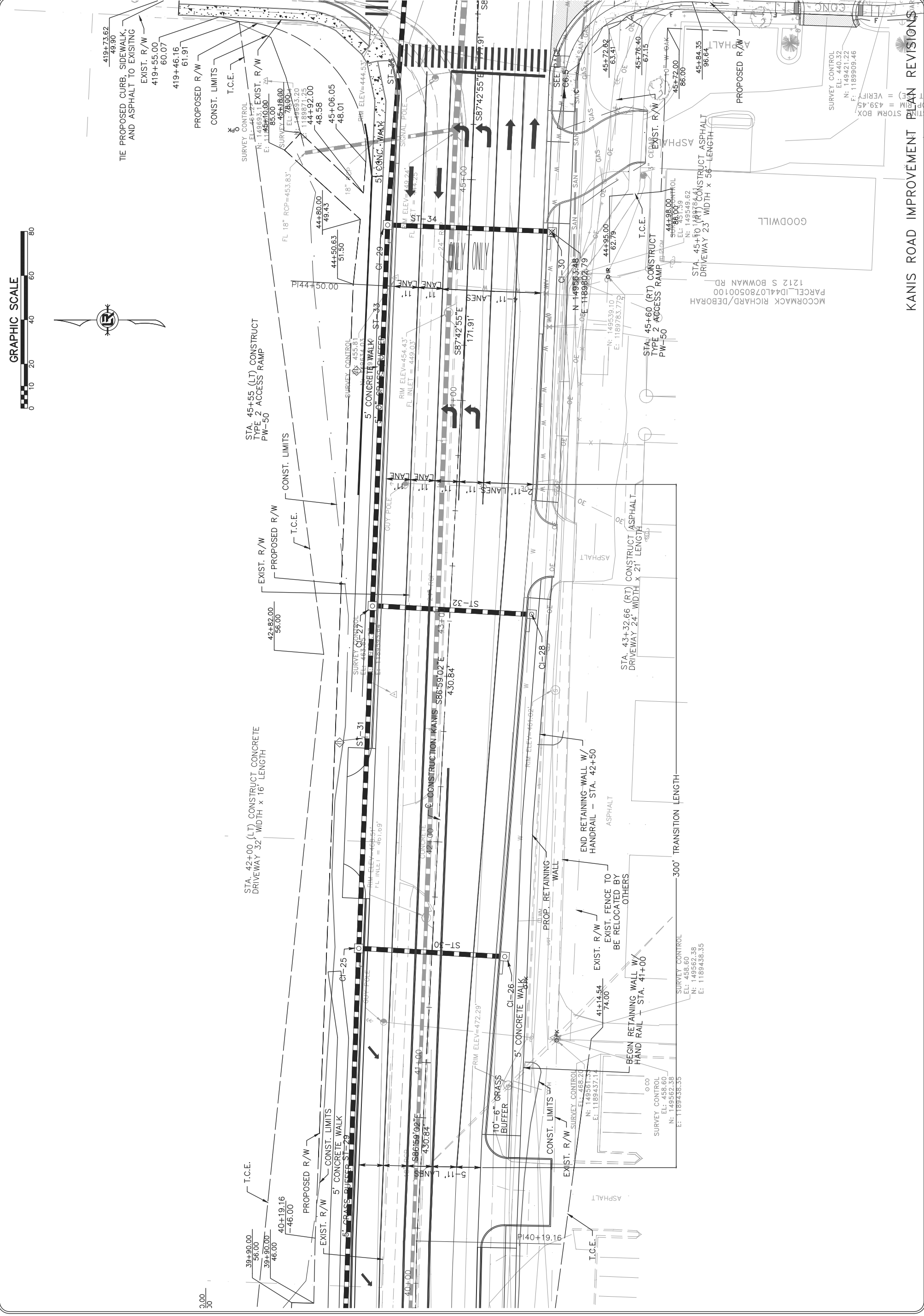
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**PLAN SHEET**

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C6.8B




KANIS ROAD IMPROVEMENT PLAN REVISIONS

SURVEY CONTROL  
 EL: 440.32  
 N: 149421.22  
 F: 1189909.46  
 VERIFY = 439.45

REVISIONS	DATE

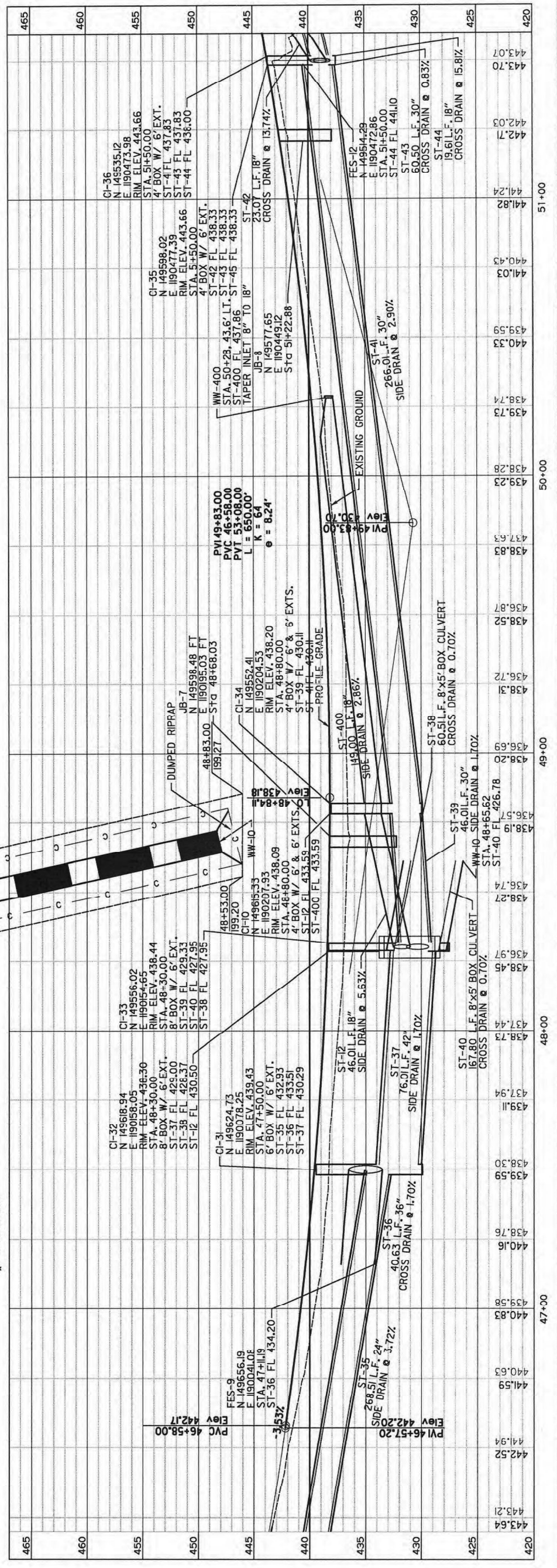
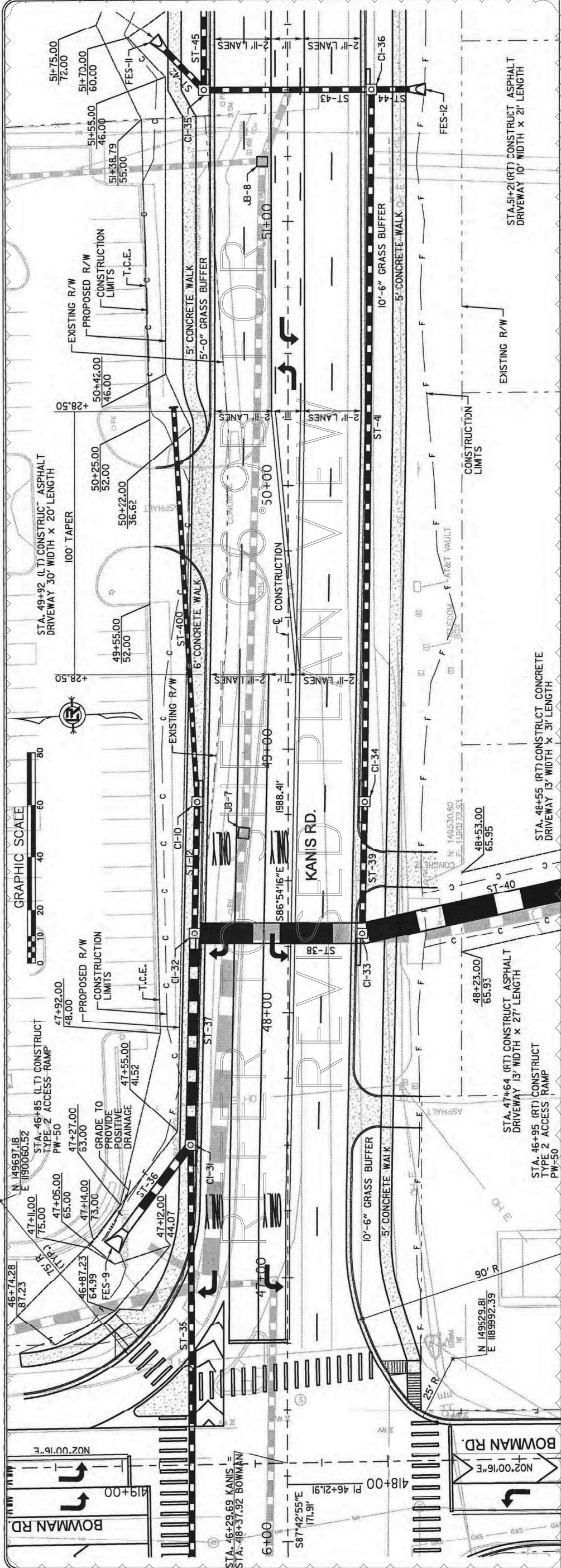
CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD  
 PLAN & PROFILE  
 KANIS ROAD SHEET 8

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



STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 11427  
 DATE 3-15-17

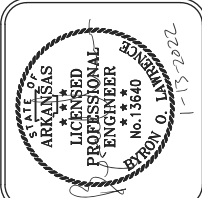
DRAWN BY	RFR
DESIGNED	RFR
CHECKED	KGT
DATE	2/24/17
SCALE	1" = 40'
PROJECT NO.	13-B-3D-6A
SHEET NO.	C6.9A



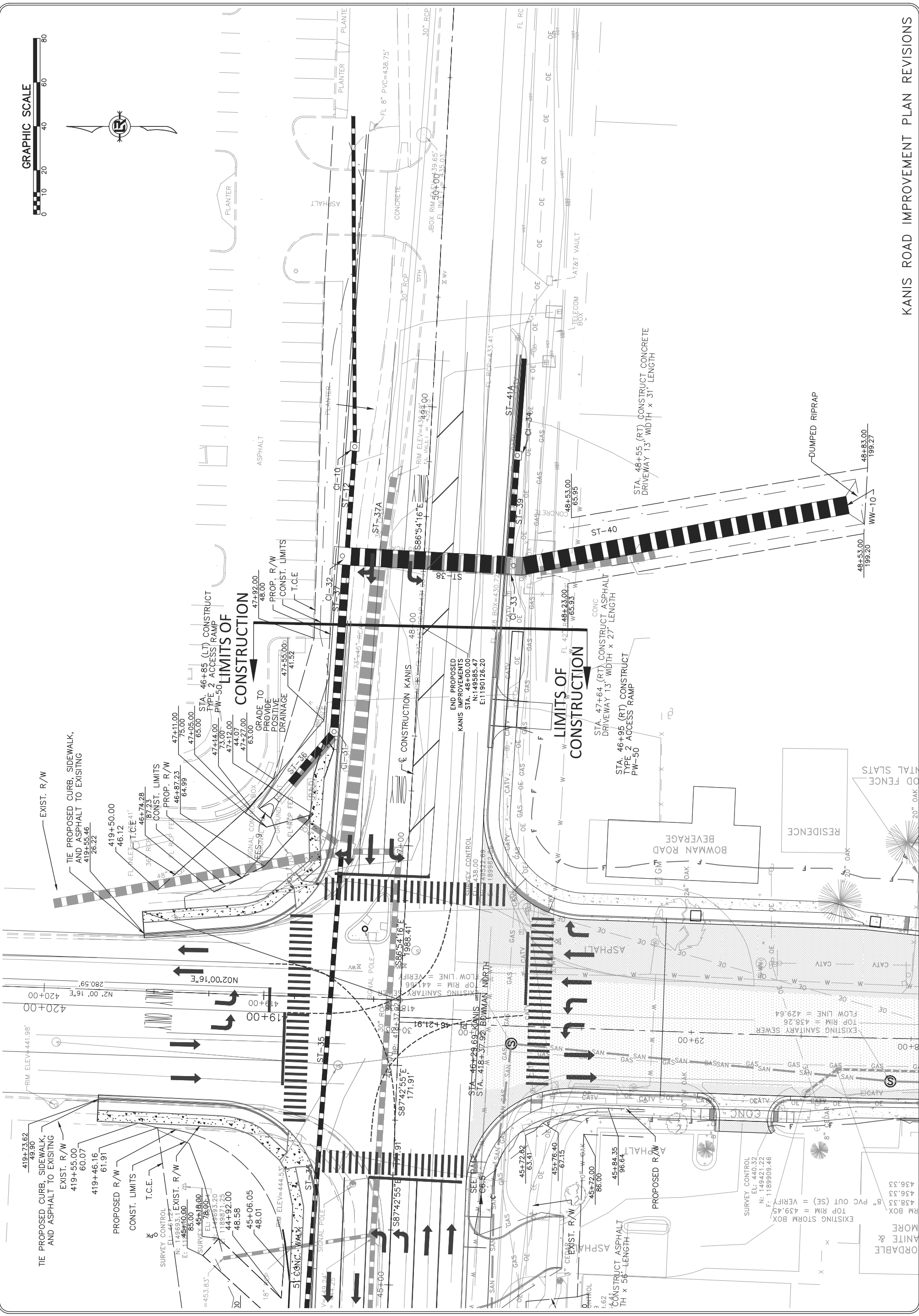
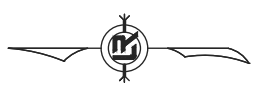
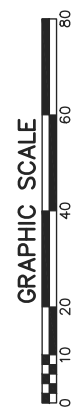
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
BOWMAN ROAD RECONSTRUCTION  
PLAN SHEET

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C6.9B






REVISIONS	DATE

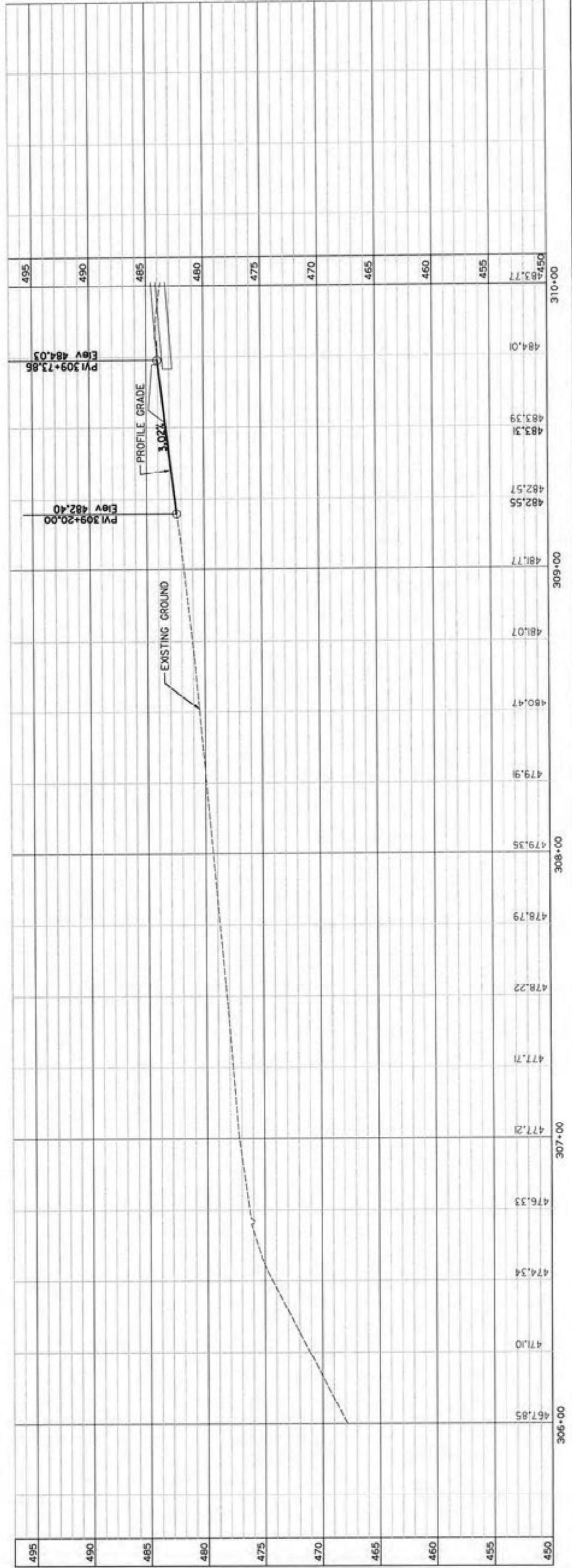
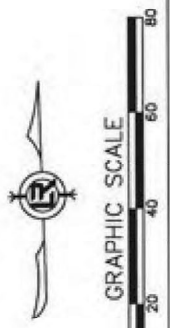
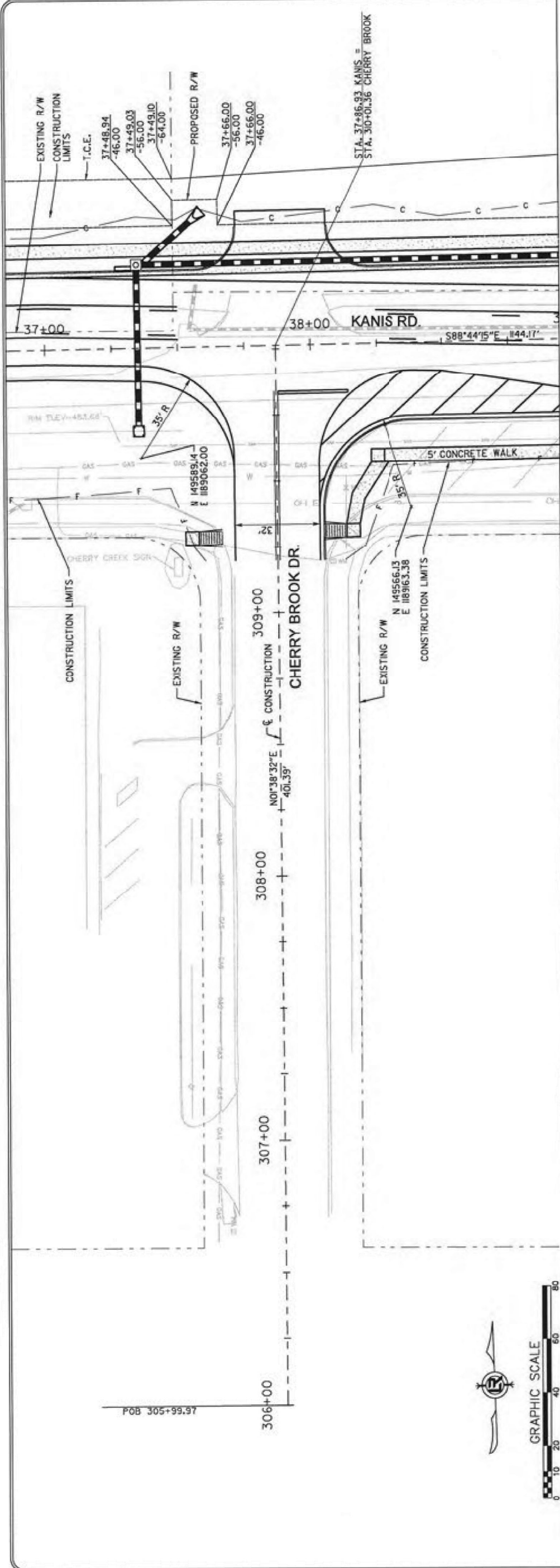
**CITY OF LITTLE ROCK, ARKANSAS**  
**KANIS ROAD**  
**PLAN & PROFILE**  
**CHERRY BROOK DRIVE**

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



STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 11427  
 KEVIN TOBLESKY

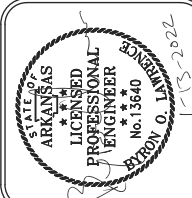
DRAWN BY	RFR
DESIGNED	RFR
CHECKED	
DATE	2/24/17
SCALE	1" = 40'
PROJECT NO.	13-B-5D-6A
SHEET NO.	C6.10



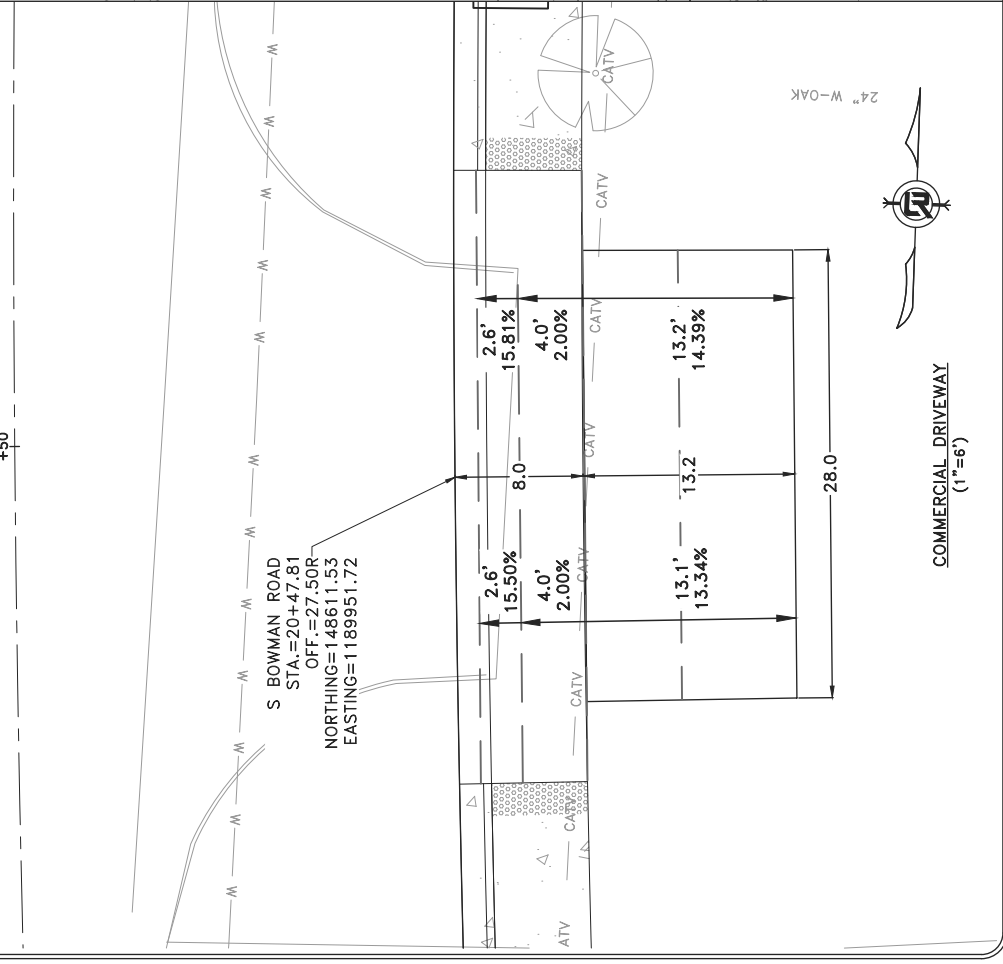
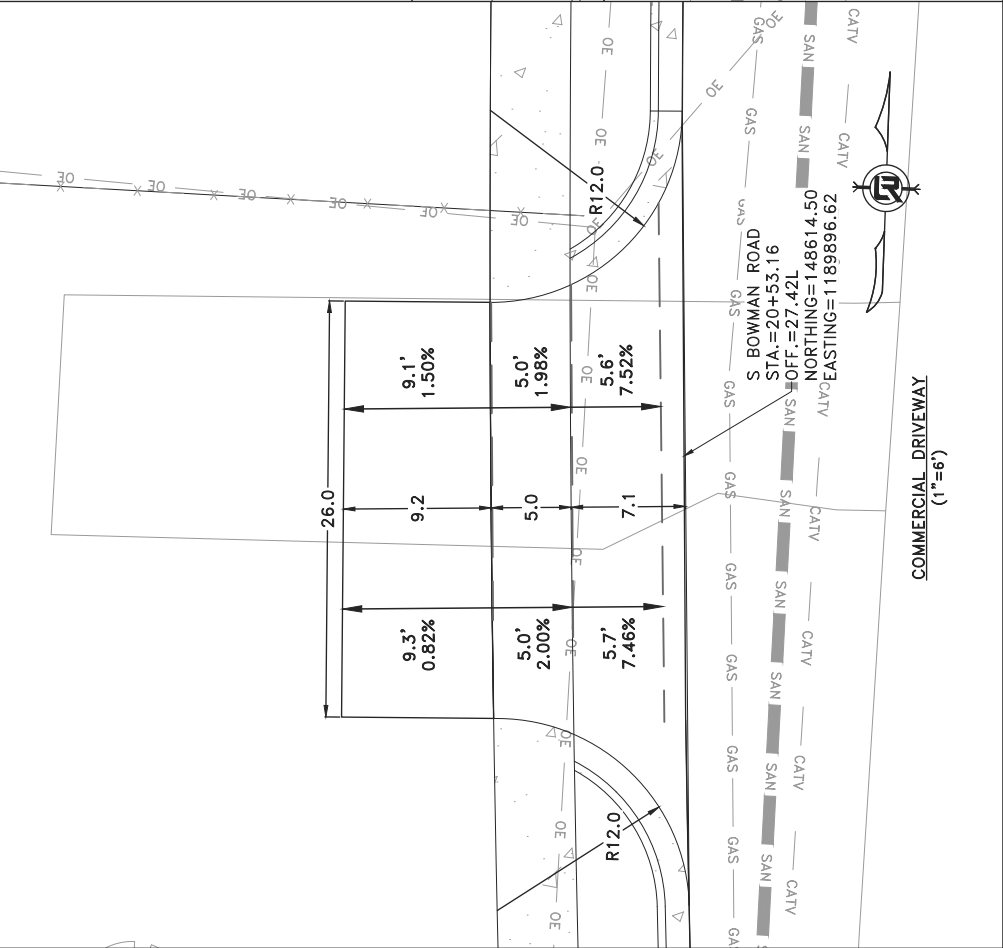
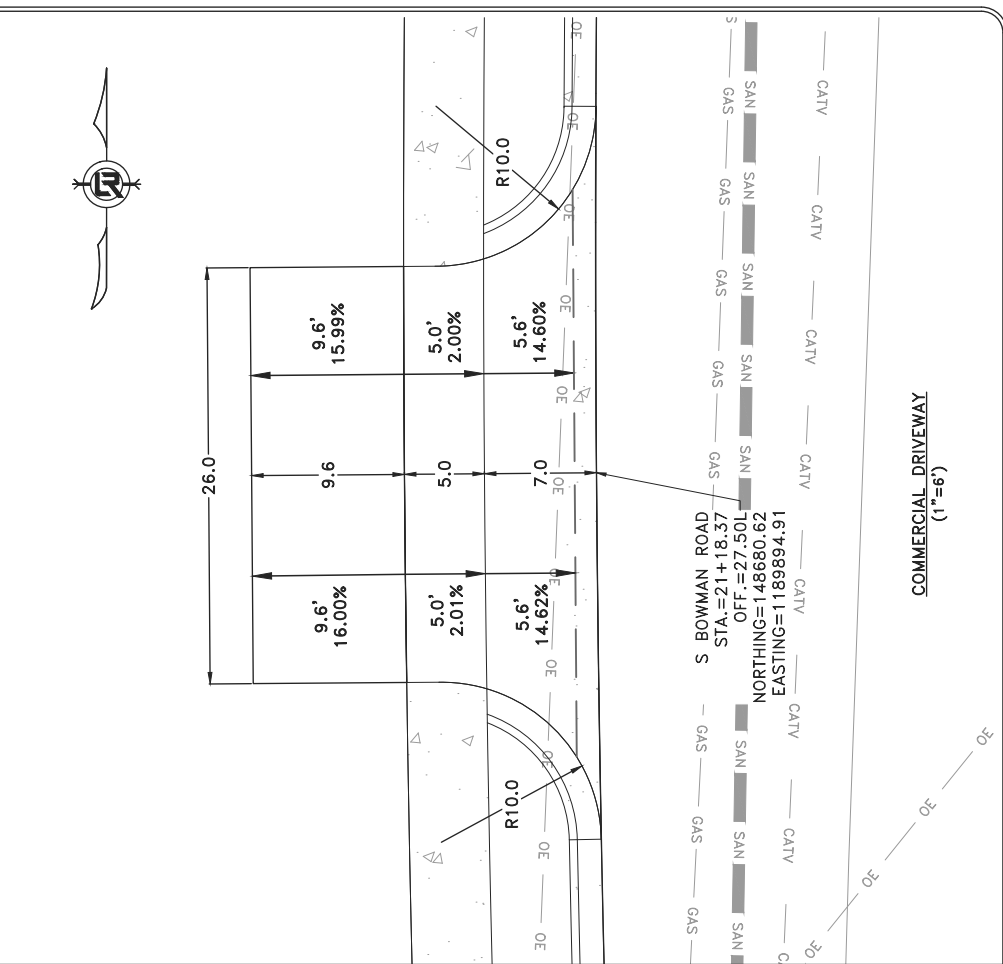
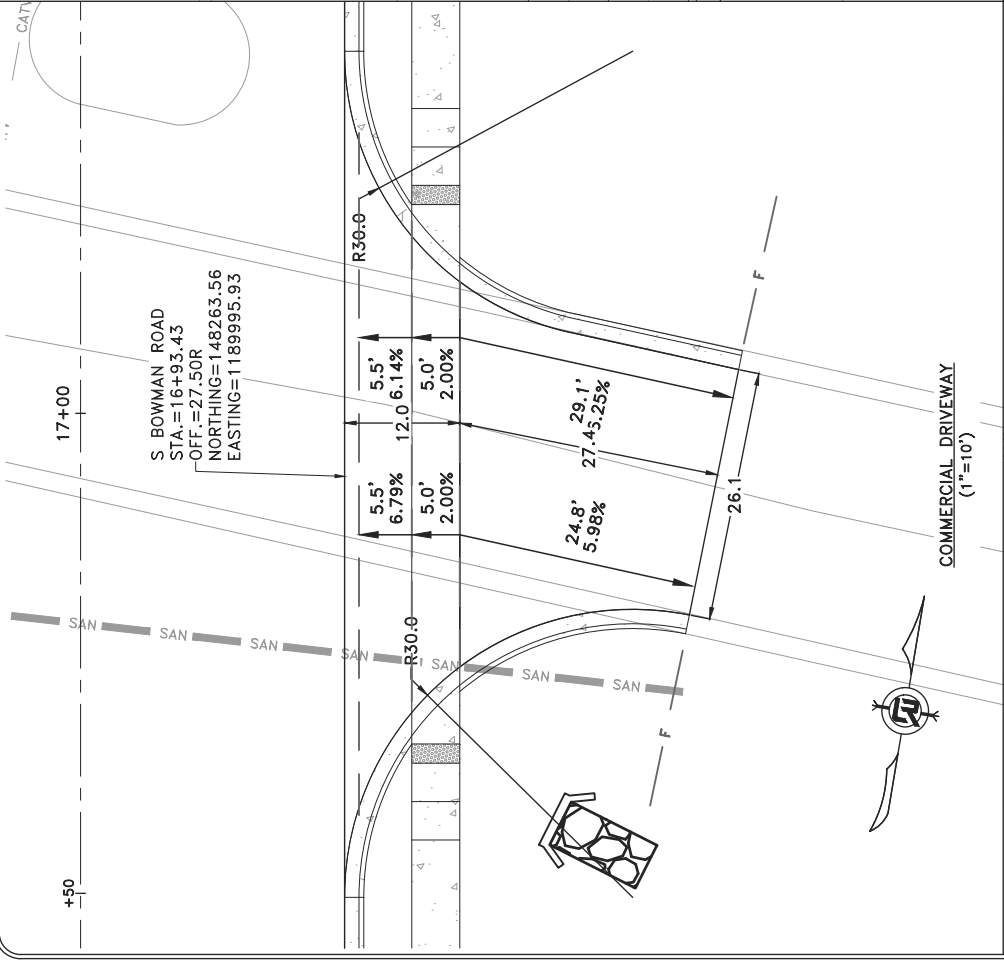
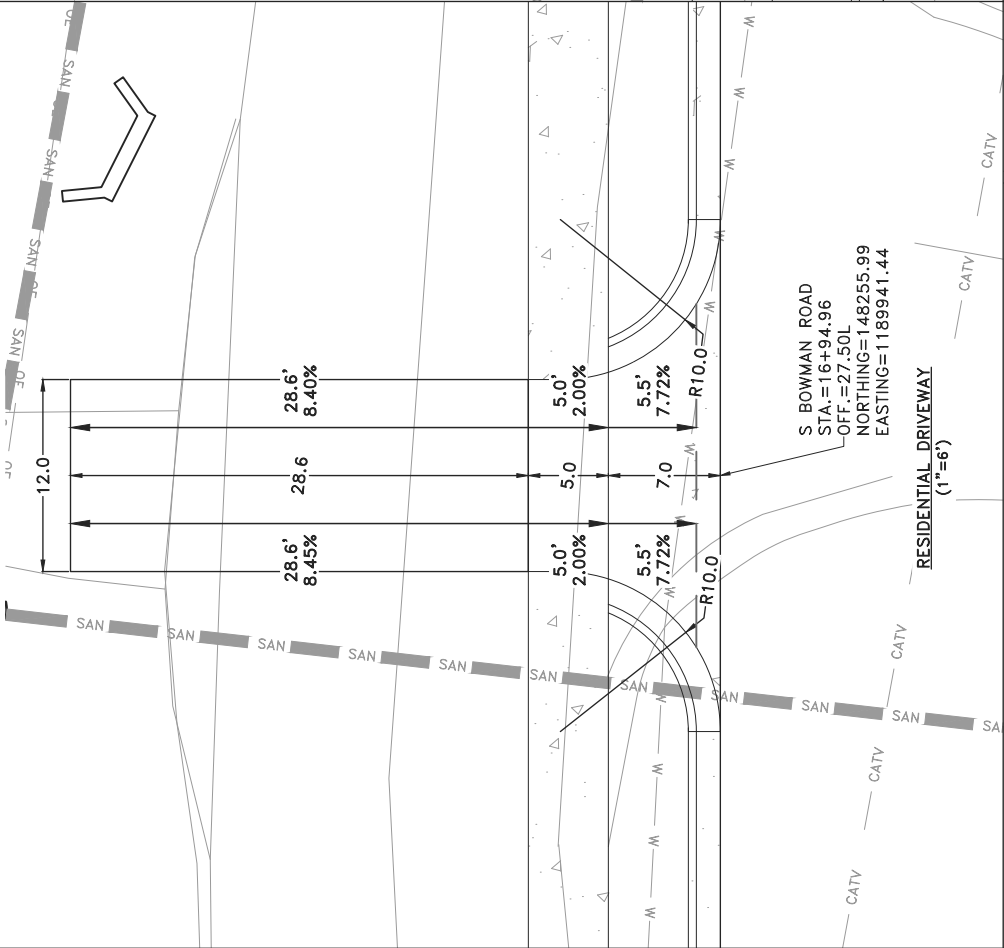
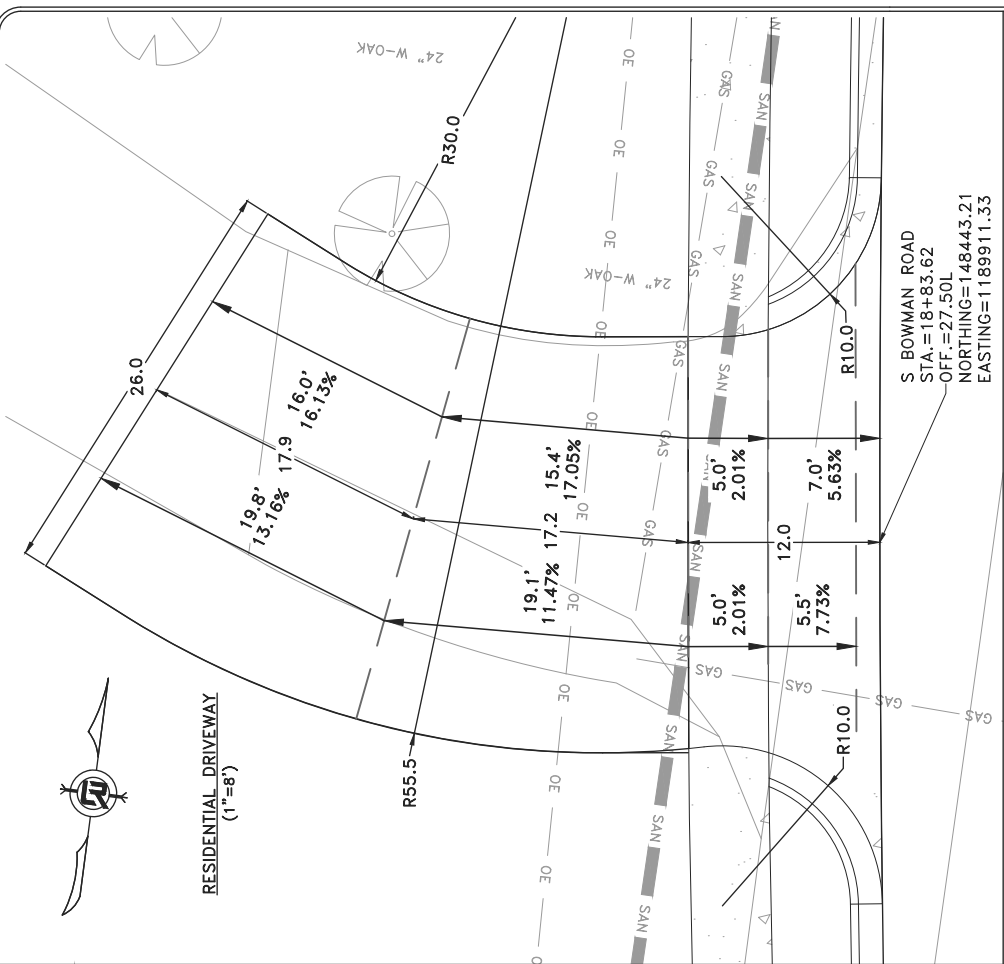
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**DRIVEWAY PLAN (1)**

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



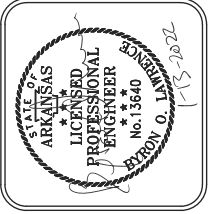
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DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	AS NOTED
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C7.0



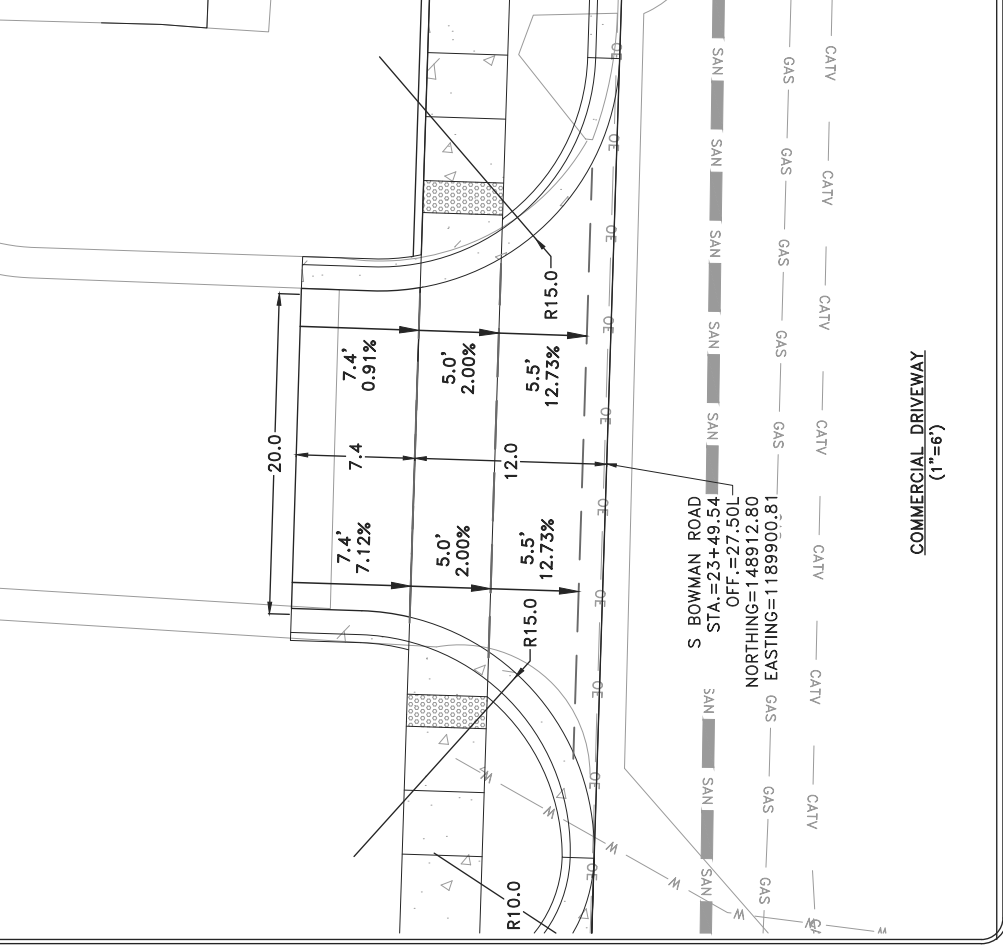
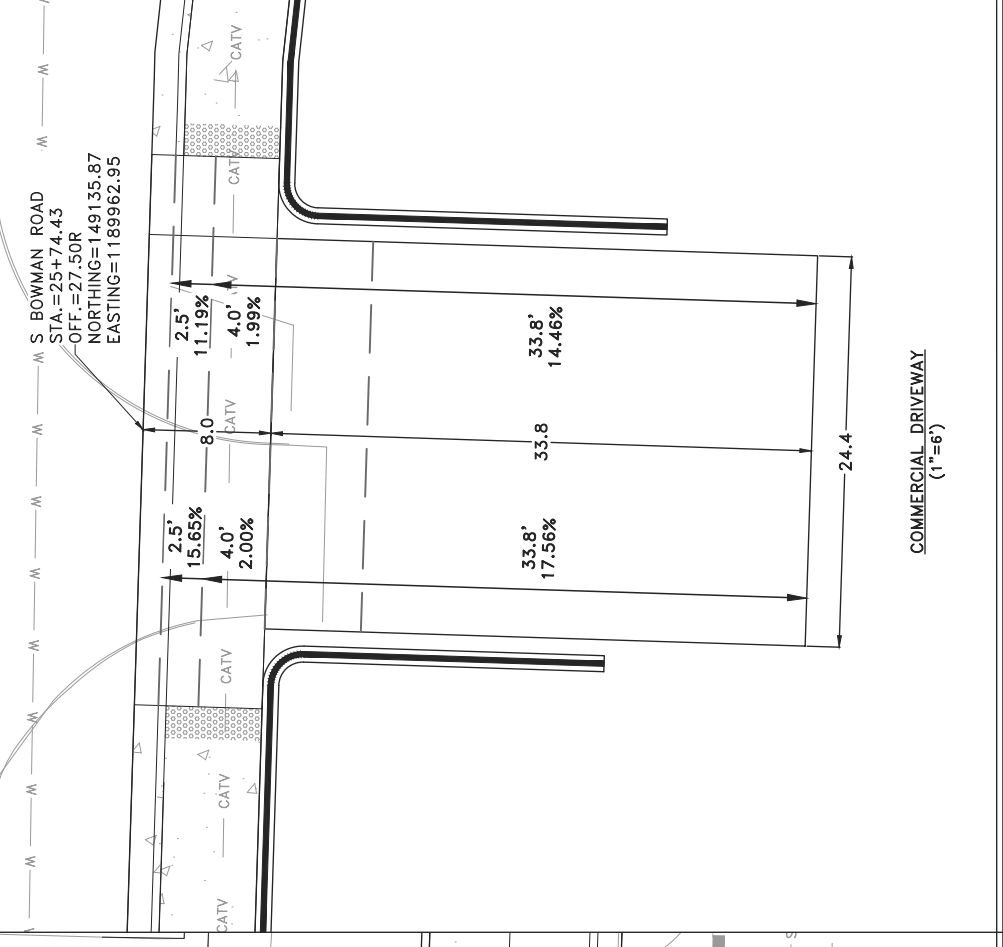
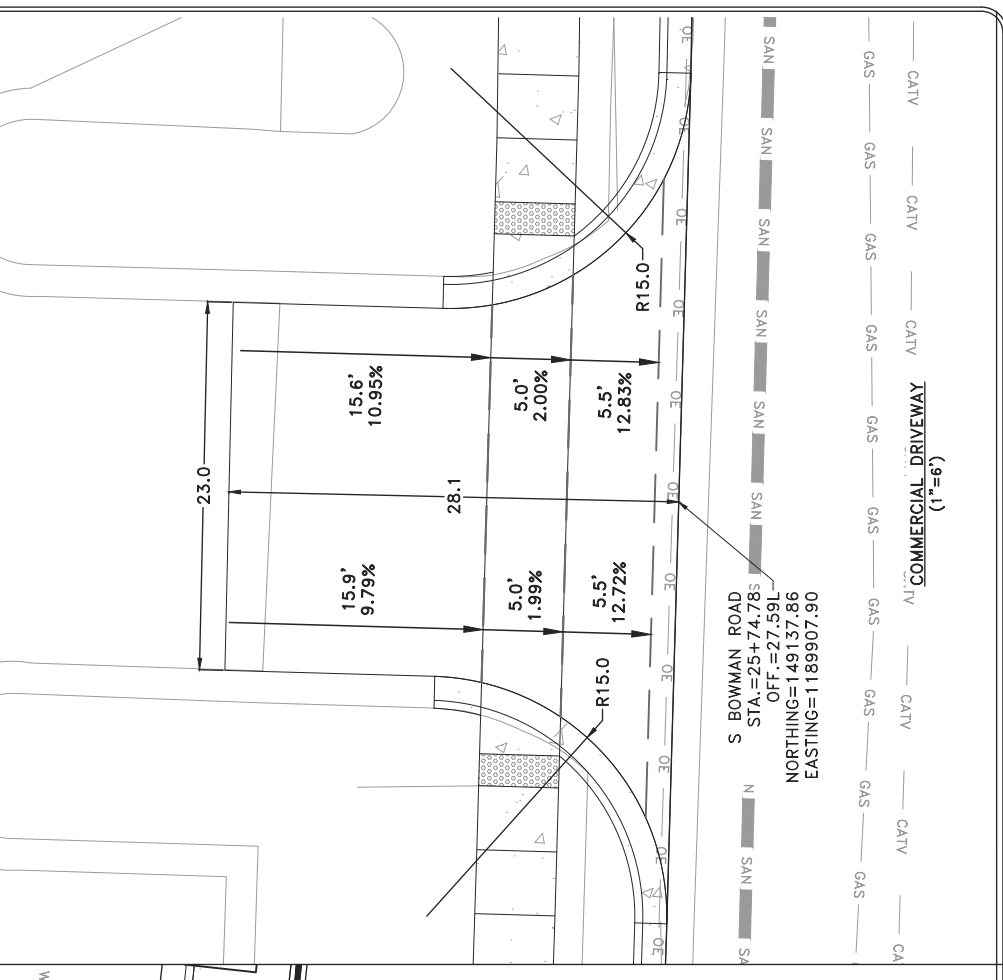
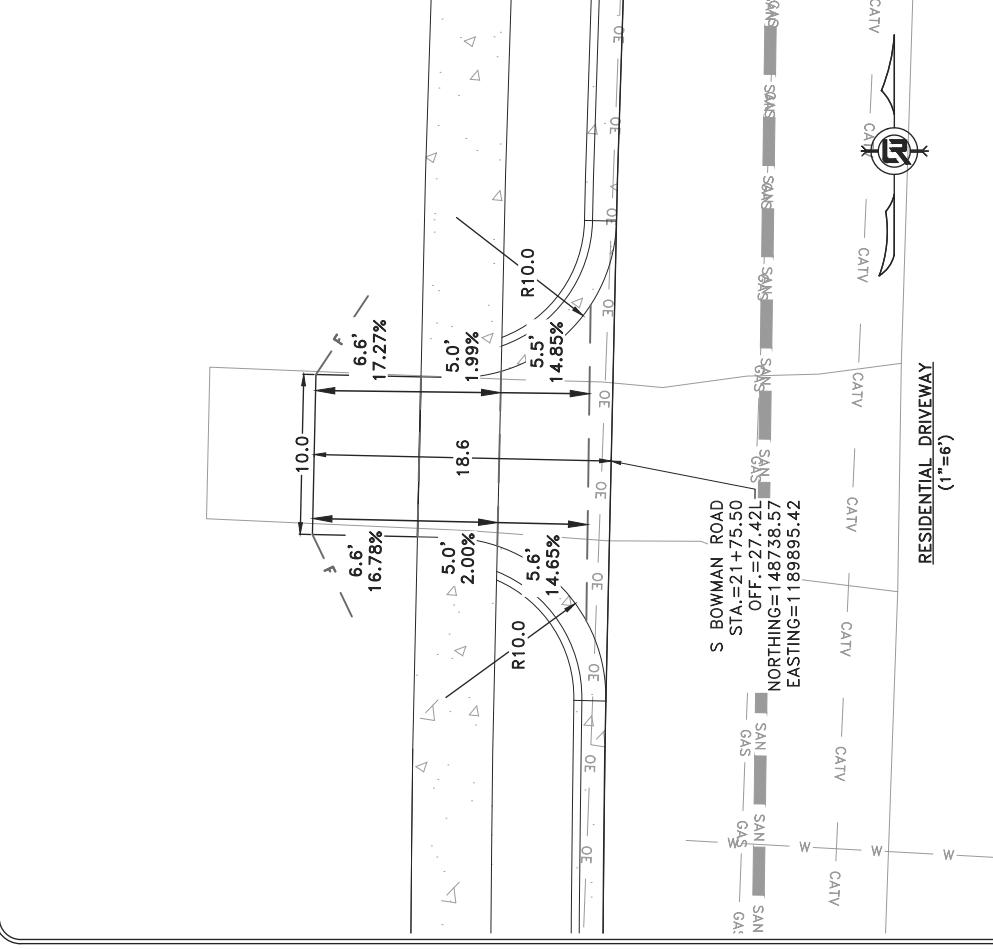
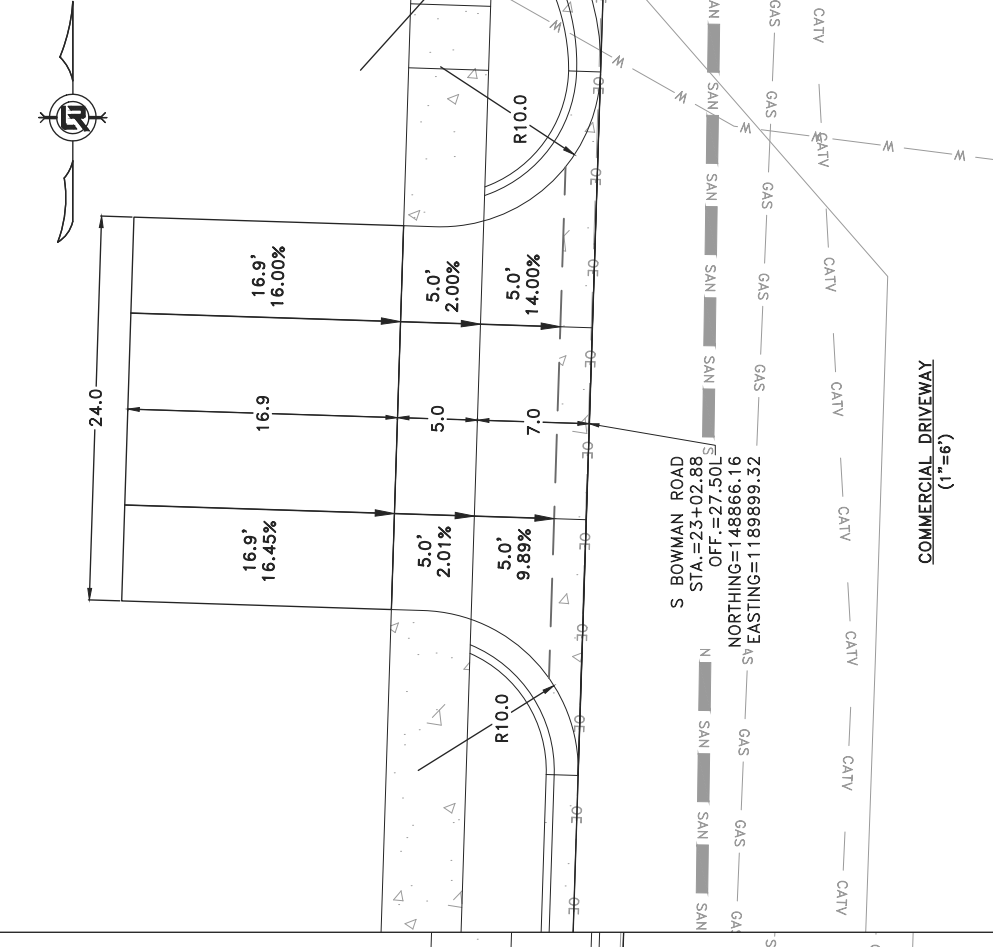
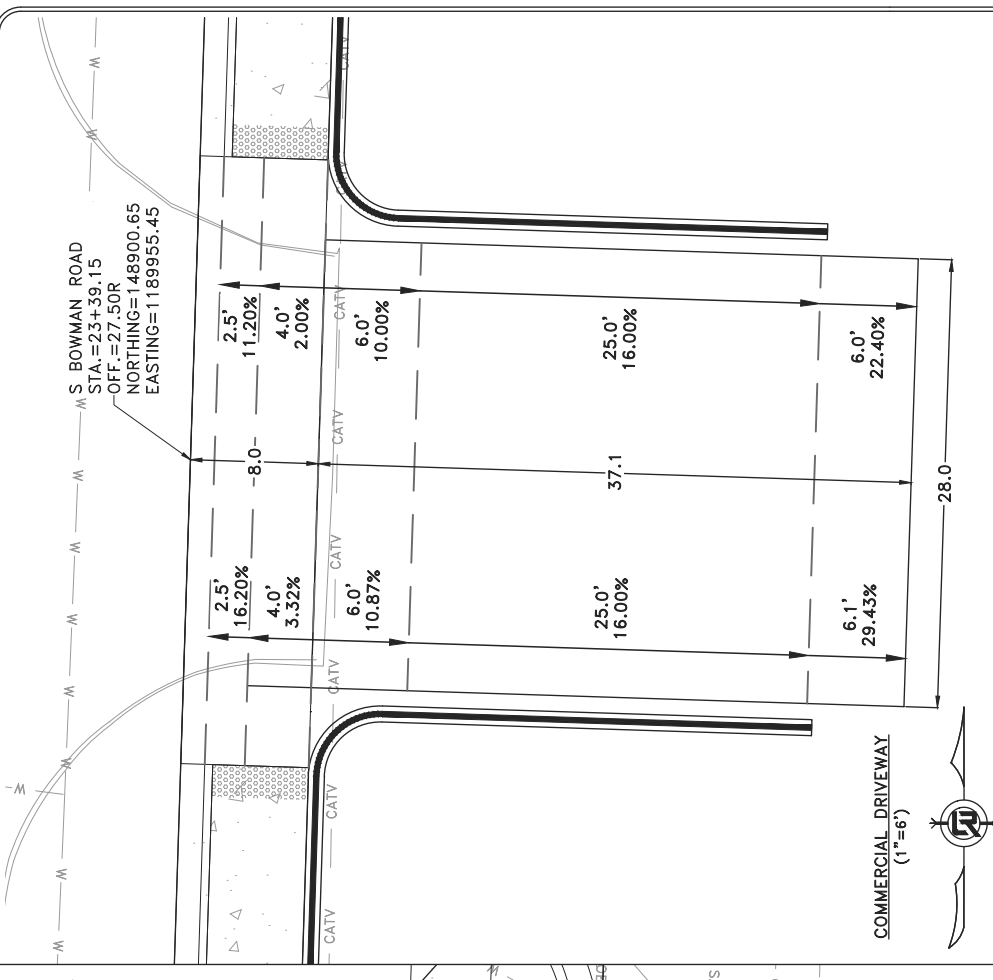
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**DRIVEWAY PLAN (2)**

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



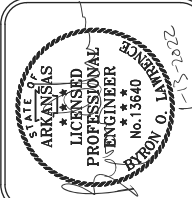
DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	AS NOTED
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C7.1



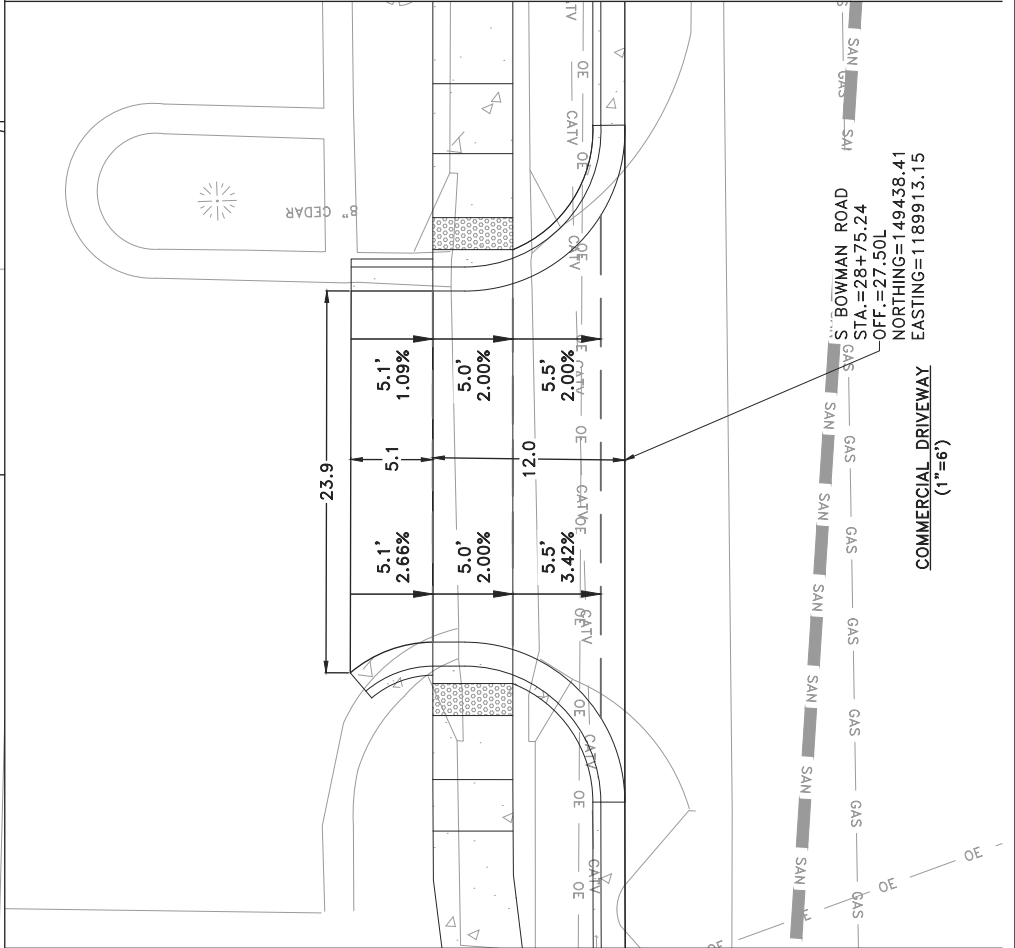
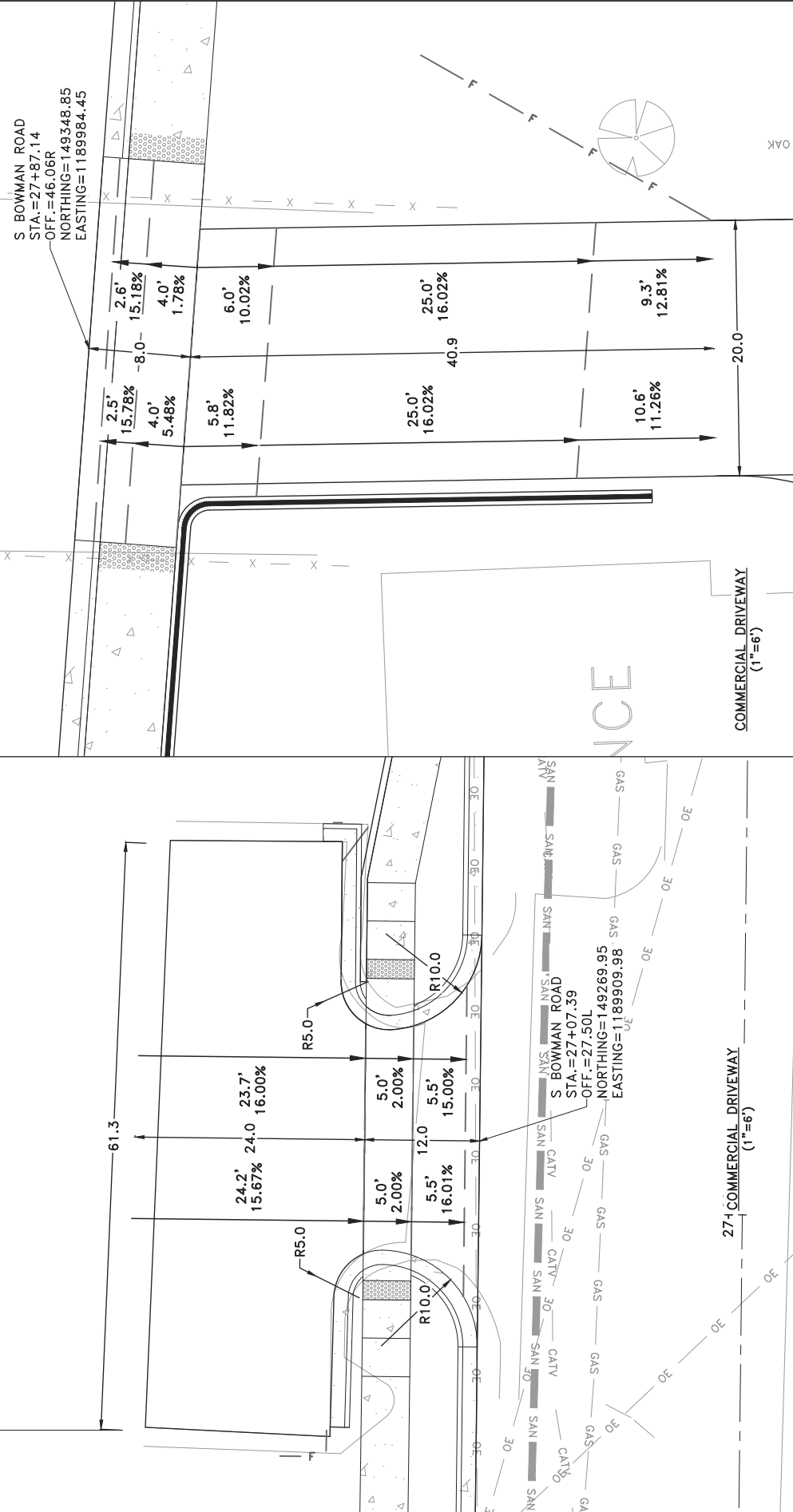
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD RECONSTRUCTION  
 DRIVEWAY PLAN (3)

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




DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	AS NOTED
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C7.2



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD  
 KANIS RD.  
 DRIVEWAY DETAIL SHEET 5

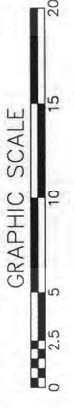
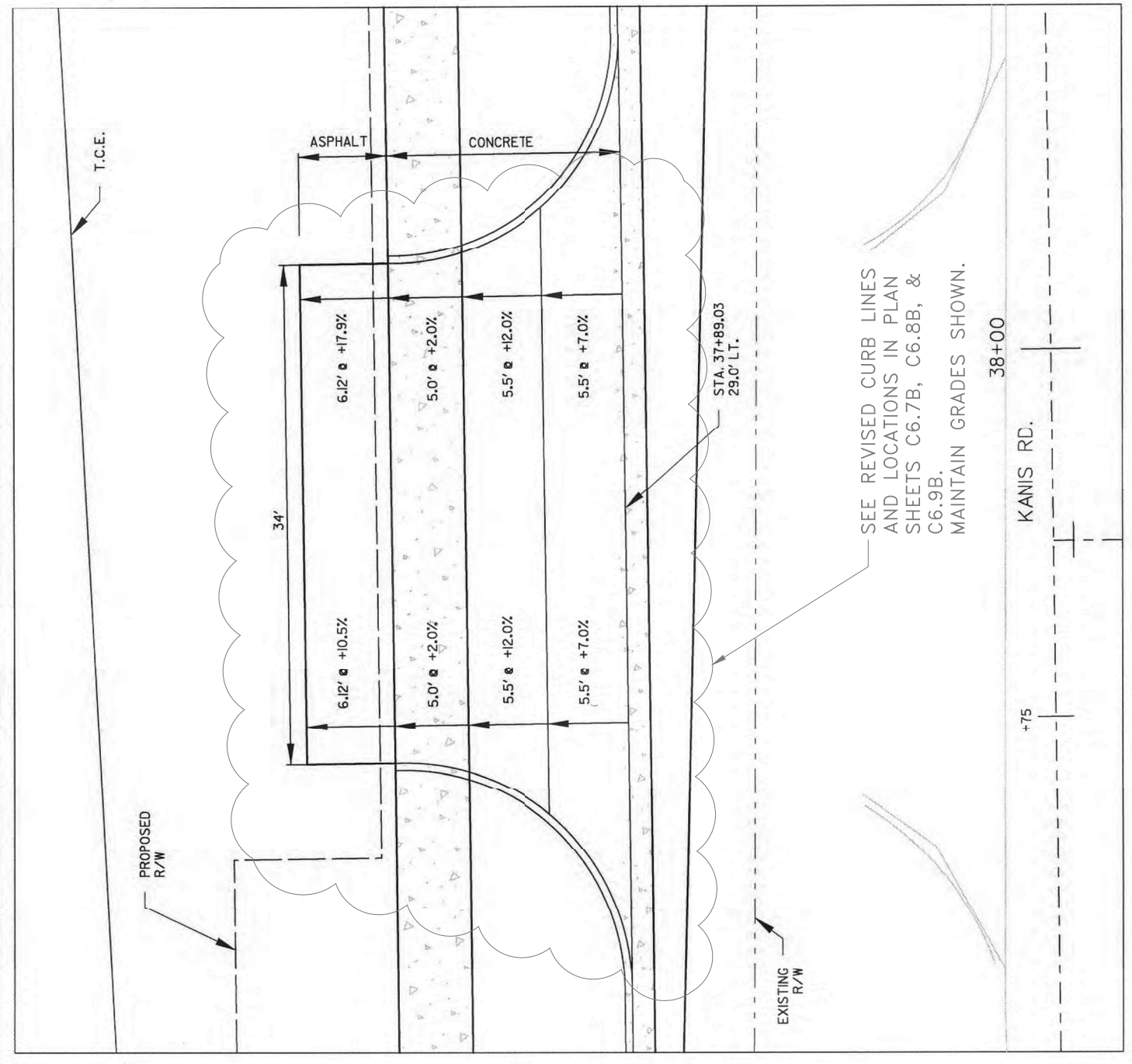
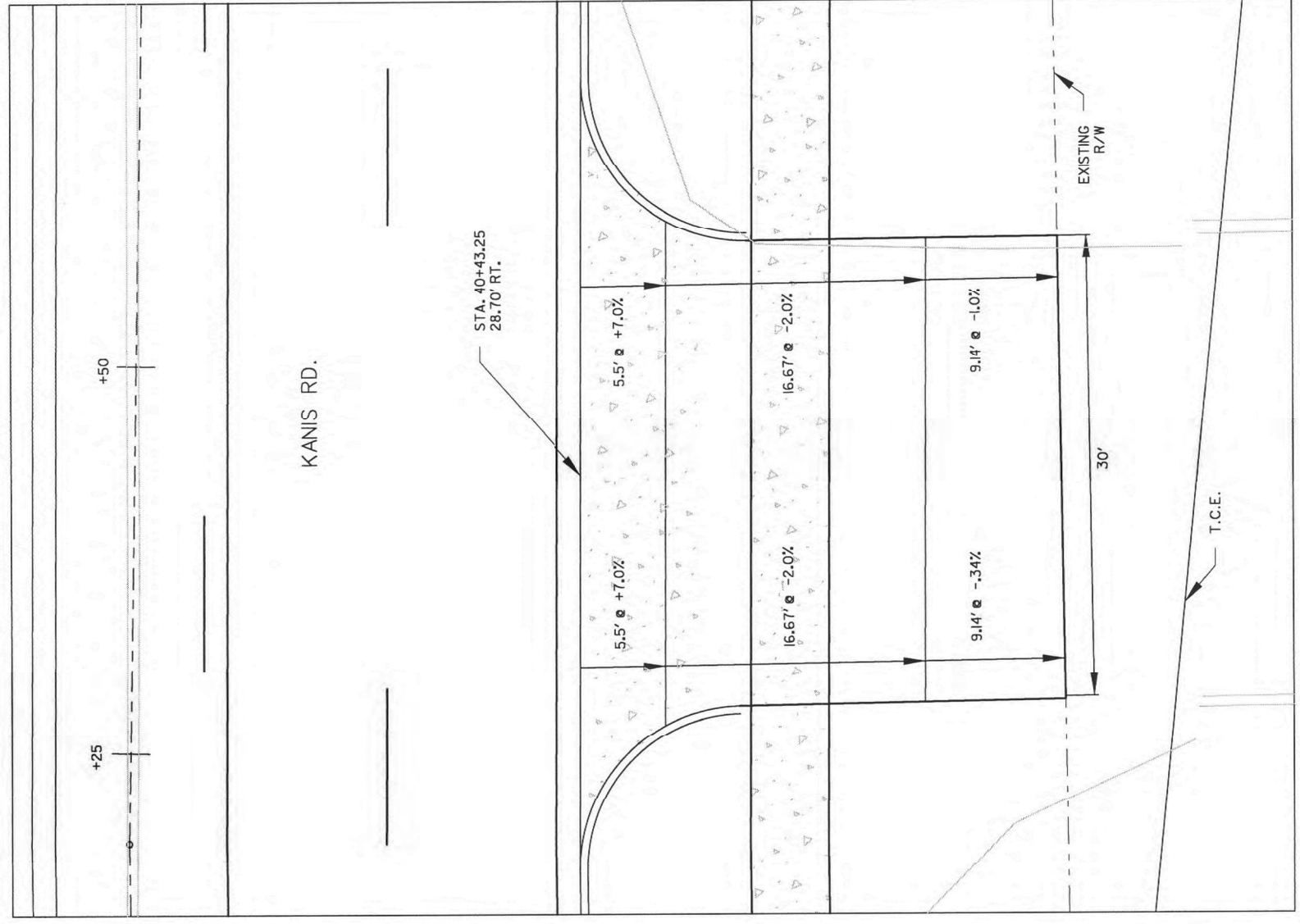
DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201

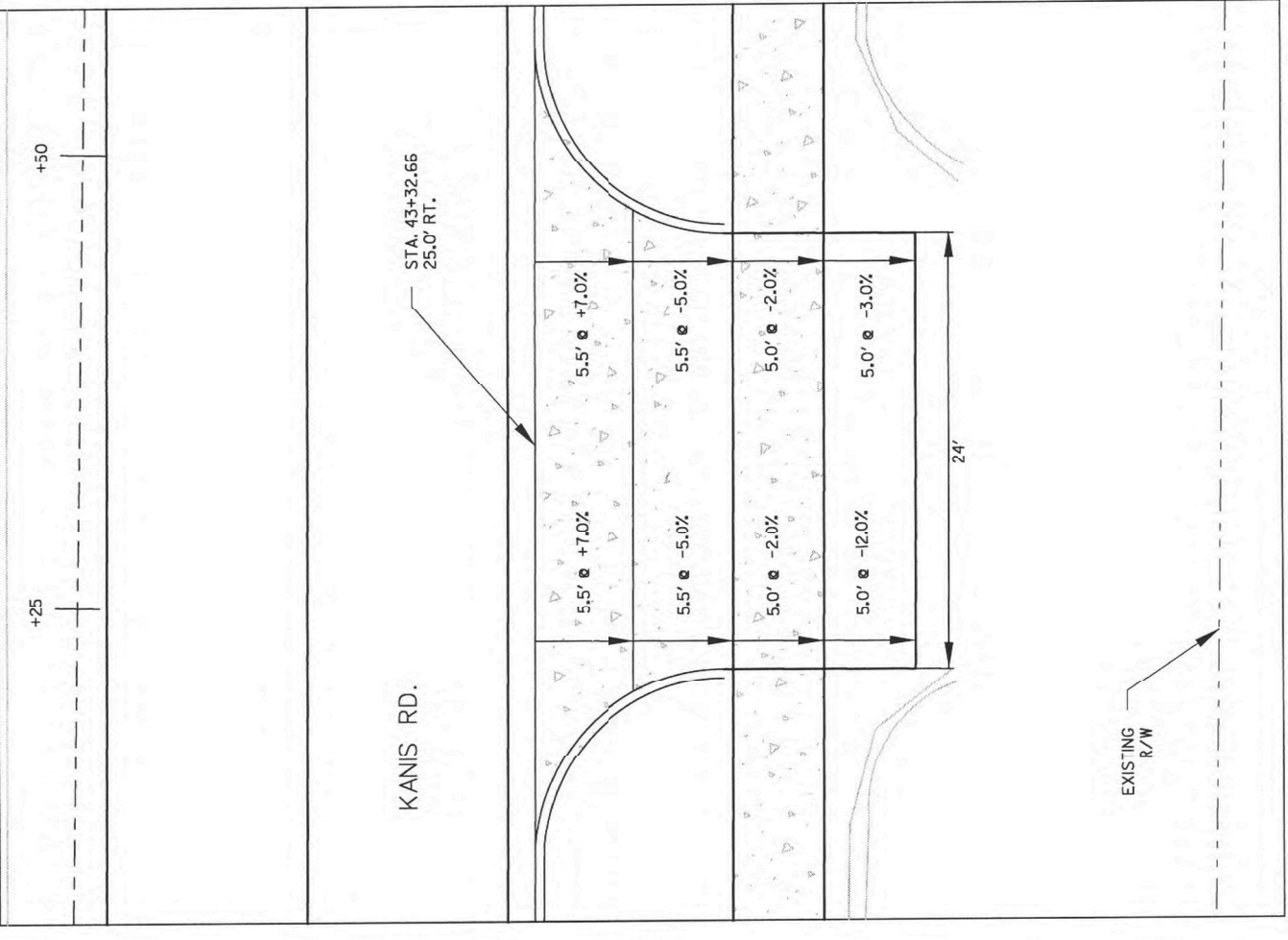
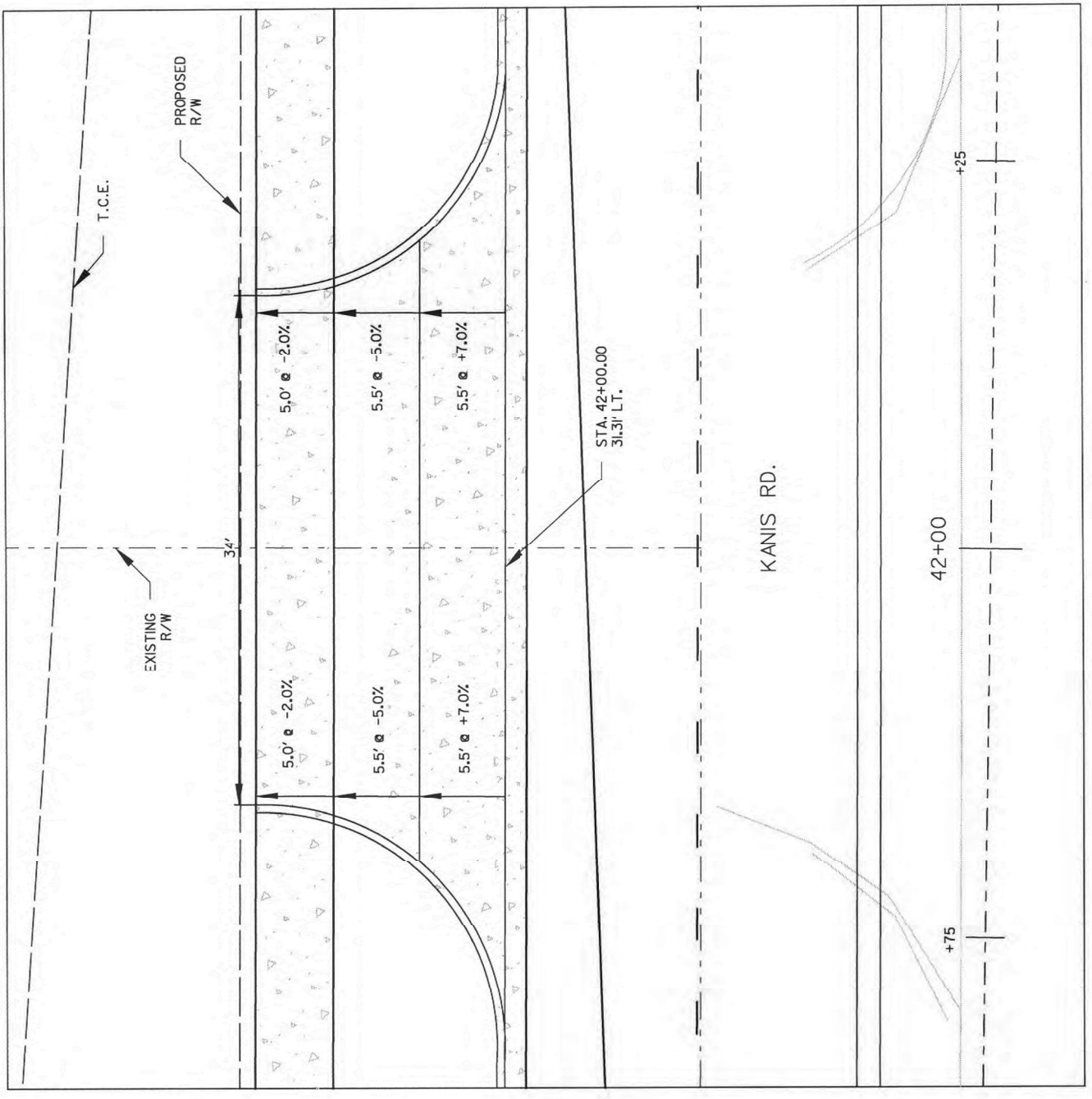


STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 11427  
 KEVIN G. TOBLESKY

1-5-16

DRAWN BY	JAB
DESIGNED	RFK
CHECKED	KGT
DATE	5/21/15
SCALE	1" = 10'
PROJECT NO.	13-B-5D-6A
SHEET NO.	C7.3





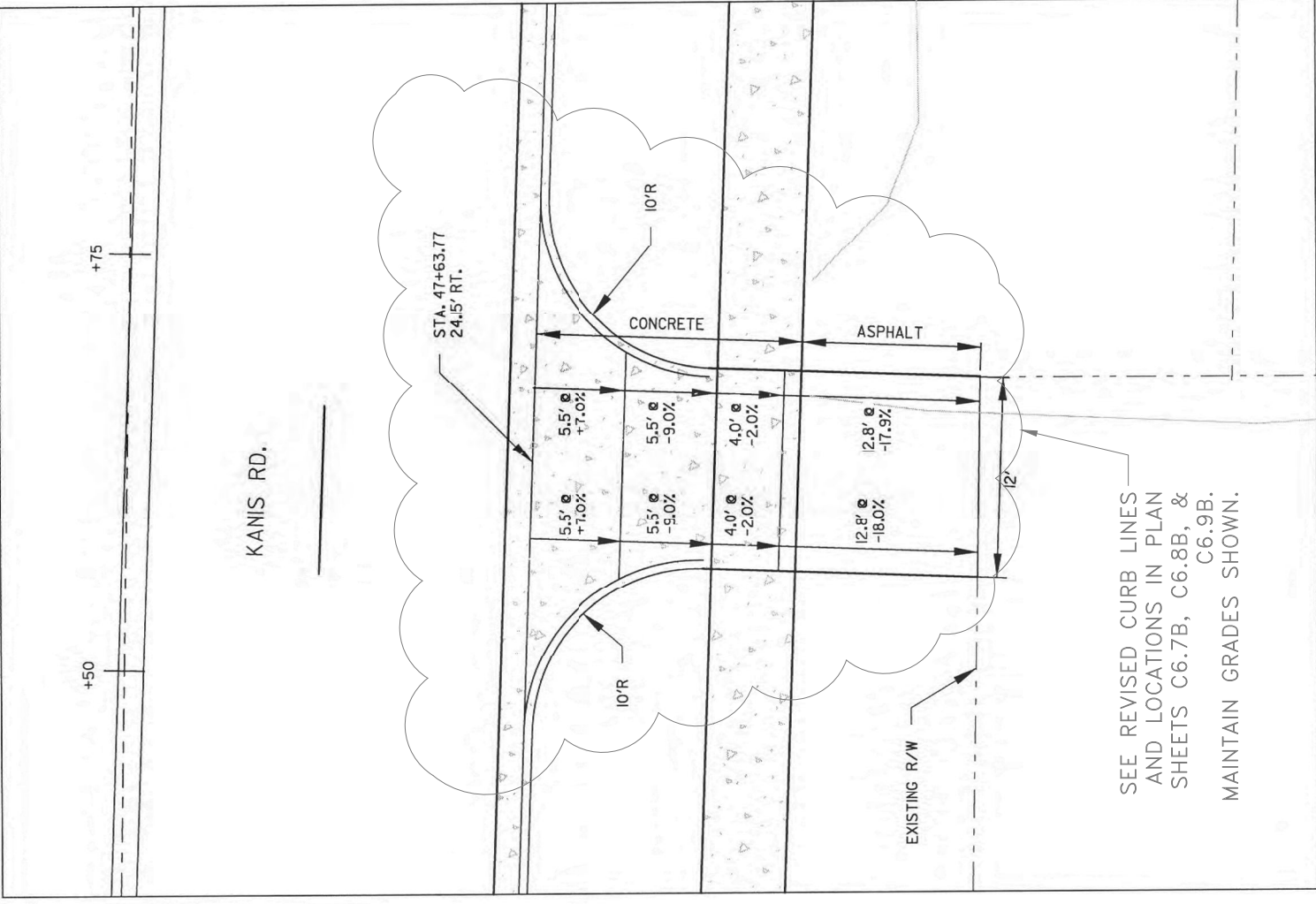
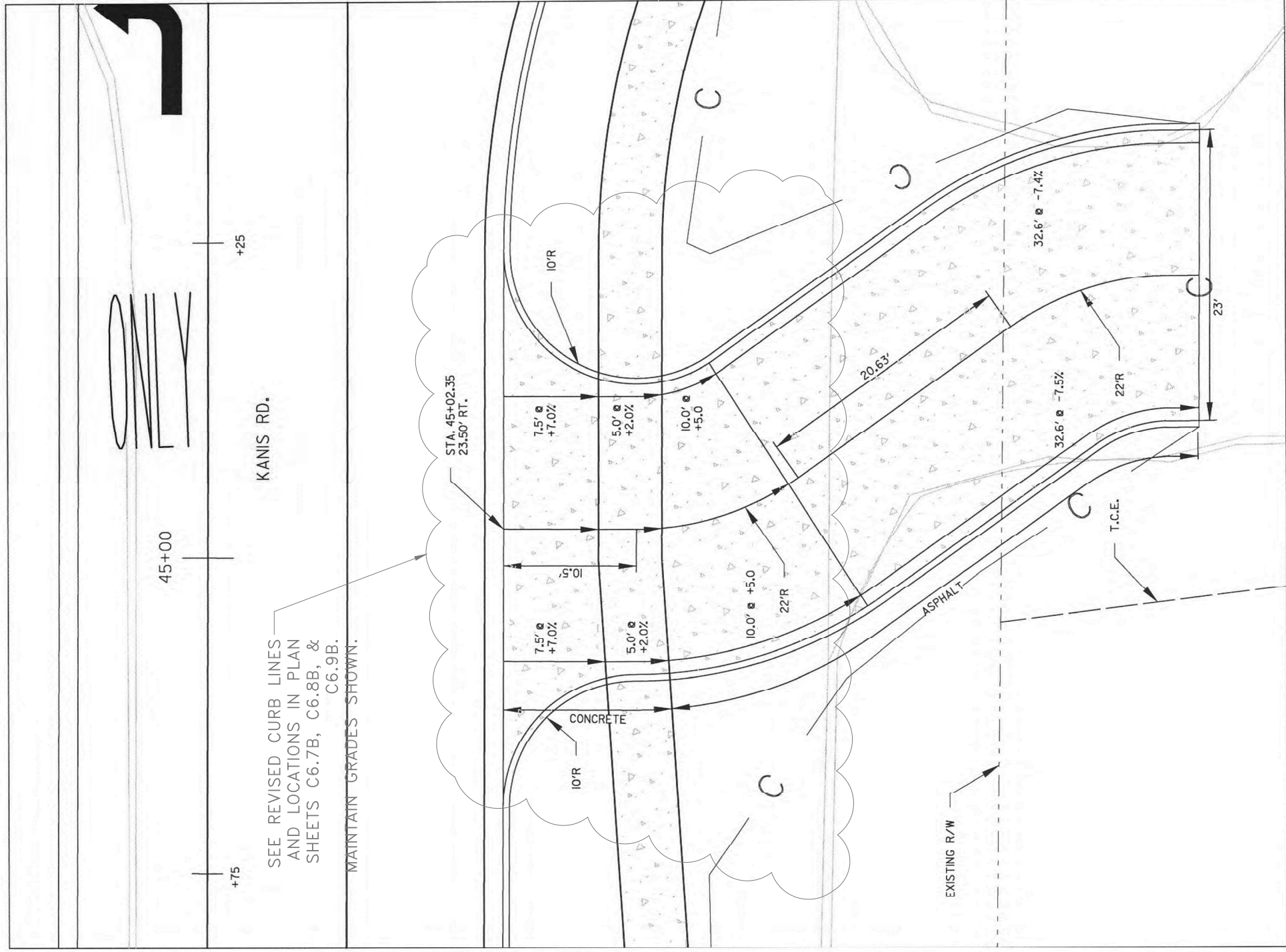
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
KANIS ROAD  
KANIS RD.  
DRIVEWAY DETAIL SHEET 6

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

STATE OF ARKANSAS  
REGISTERED PROFESSIONAL ENGINEER  
N. 11,427  
KEVIN G. TOBLESKY

DRAWN BY	1-5-16
JAB	
DESIGNED	
RFR	
CHECKED	
KGT	
DATE	5/21/15
SCALE	1" = 10'
PROJECT NO.	13-B-5D-6A
SHEET NO.	C7.4



DRAWN BY	JAB
DESIGNED	FR
CHECKED	KGT
DATE	5/21/15
SCALE	1" = 10'
PROJECT NO.	13-B-5D-6A
SHEET NO.	C7.5



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

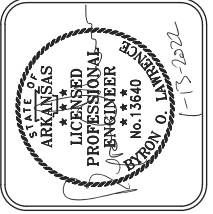
CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD  
 KANIS RD.  
 DRIVEWAY DETAIL SHEET 7

REVISIONS	DATE

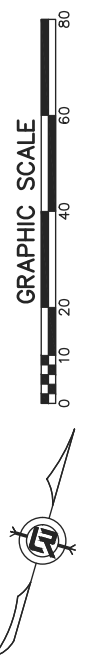
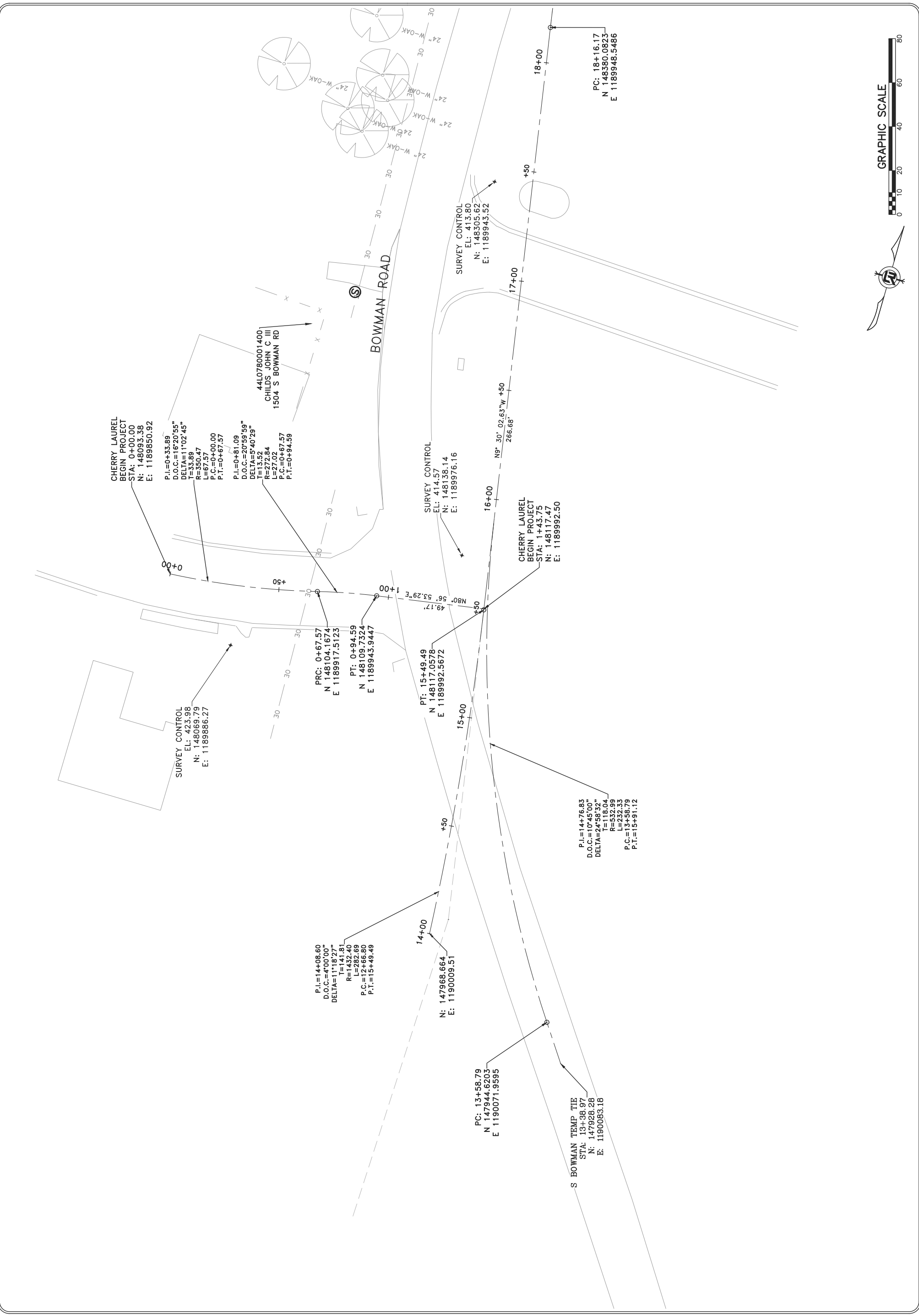
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**SURVEY CONTROL (1)**

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



DRAWN BY	
KLL	
DESIGNED	
COF	
CHECKED	
BOL	
DATE	12-11-2020
SCALE	1" = 20'
PROJECT NO.	CL.R 6-15-ST-249
SHEET NO.	C8.0

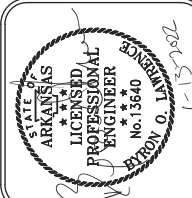




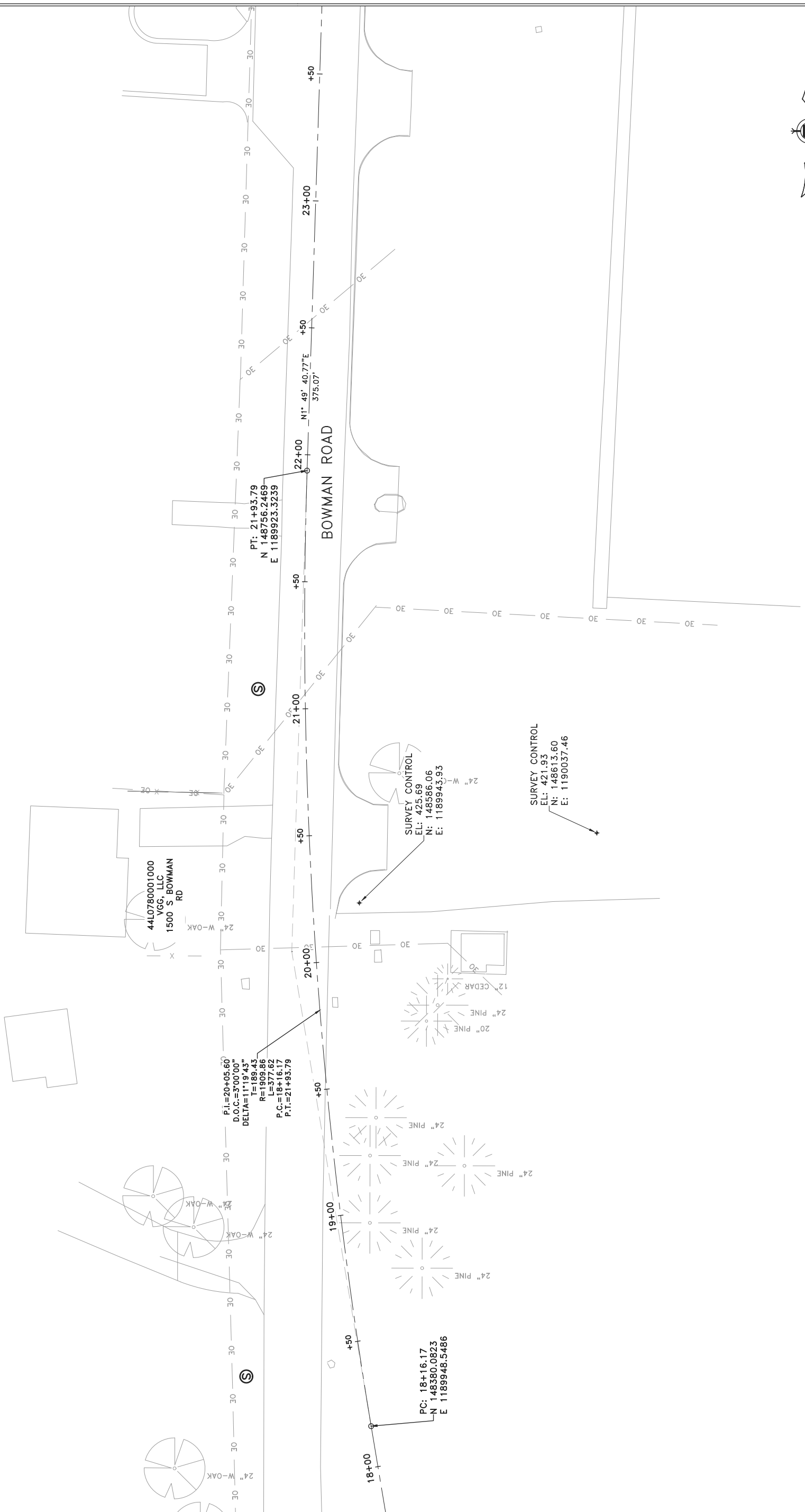
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD RECONSTRUCTION  
 SURVEY CONTROL (2)

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



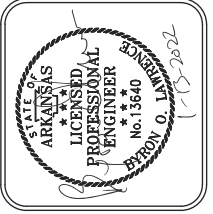
DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	1" = 20'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C8.1



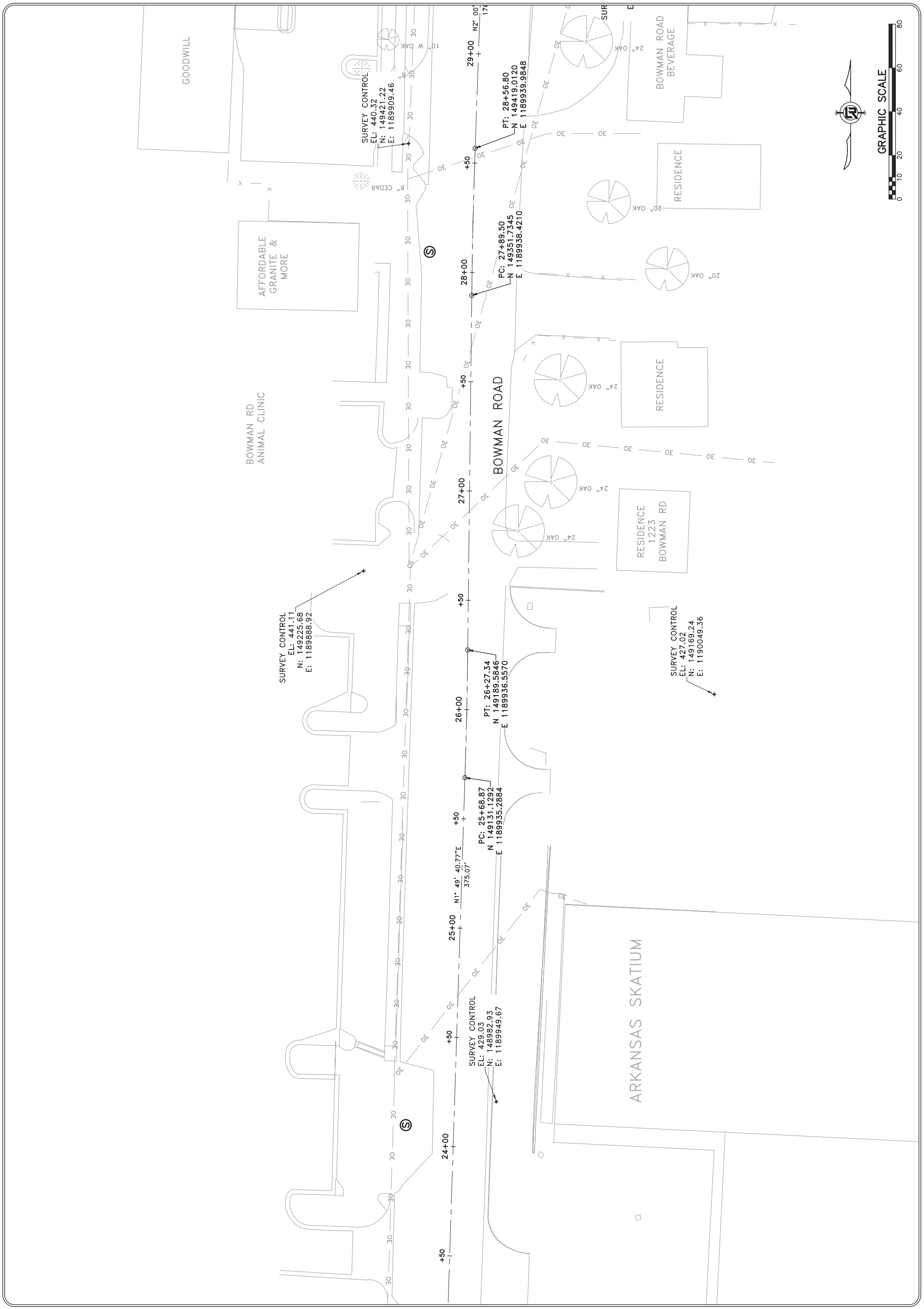
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 BOWMAN ROAD RECONSTRUCTION  
 SURVEY CONTROL (3)

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



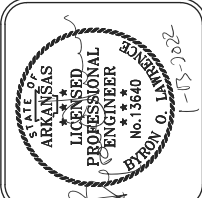
DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	1" = 20'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C8.2



REVISIONS	DATE

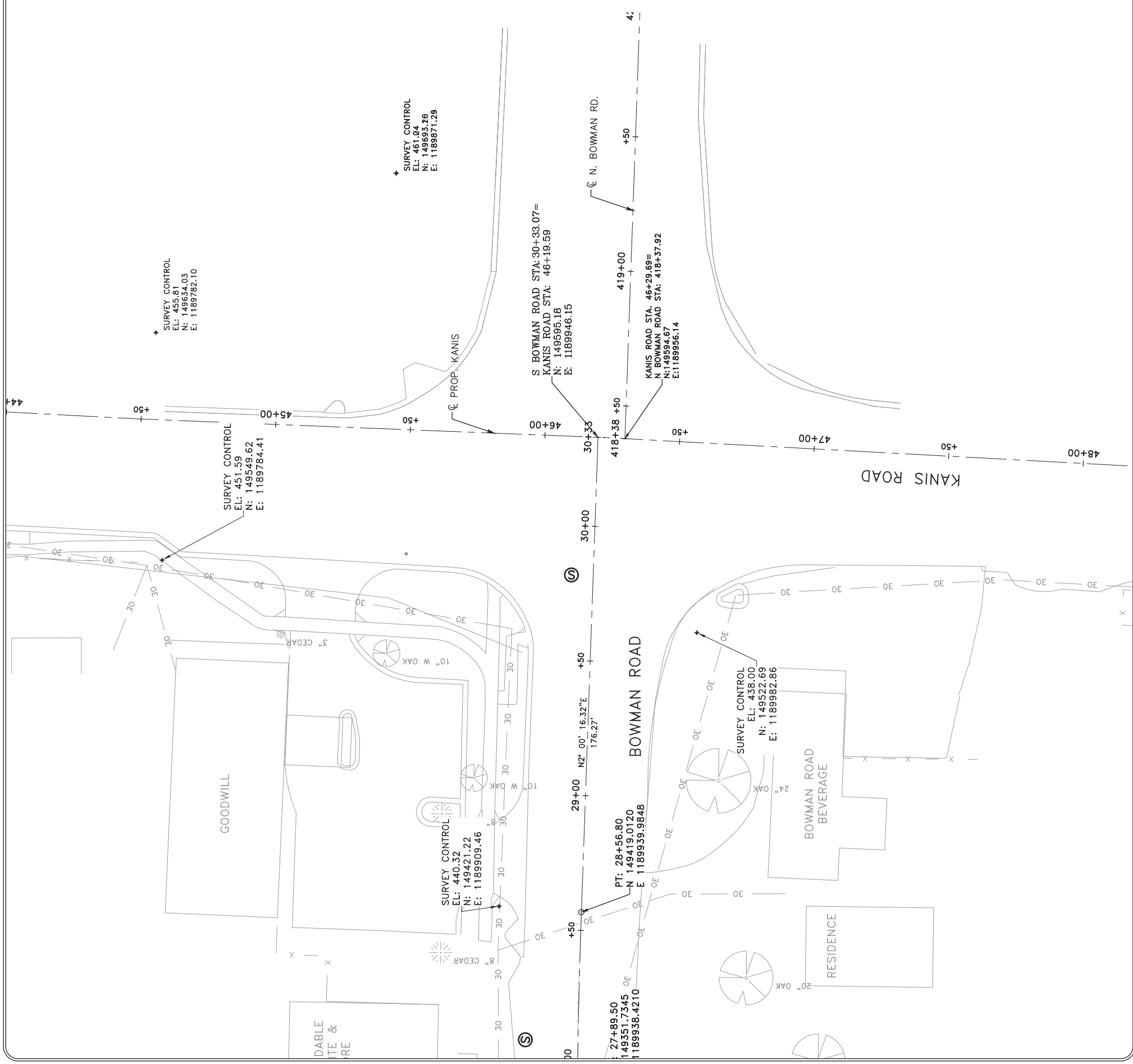
**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**SURVEY CONTROL (4)**

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	1" = 20'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C8.3


Point #	Raw Description	Elevation	Northing	Easting
1	CTL PAGIS_2054-0012	446.790	148939.6800	1188922.1300
13	CTL PAGIS-2055	365.470	145757.9900	1189797.9500
15	CTL ARDOT_600041A	413.078	150728.9570	1194218.8290
16	CTL ARDOT_600041	441.919	154577.6250	1194952.9630
17	CTL PAGIS_2055-0034	458.600	149562.3800	1189438.3500
21	CTL PK	437.999	149522.6880	1189982.8620
22	CTL PK	429.031	148982.9310	1189949.6670
25	CTL 800	418.216	147659.8950	1190220.6120
26	CTL 800	411.596	147380.5940	1190100.8460
27	CTL 800	417.588	147113.9050	1189832.0120
28	CTL PK	422.905	146696.2120	1189825.3370
30	CTL 80D SPIKE	455.807	149634.0340	1189782.1050
31	CTL 80D SPIKE	463.849	149634.7670	1189593.6410
32	CTL 60D	440.323	149421.2160	1189909.4620
33	CTL 60D	441.113	149225.6810	1189888.9210
34	CTL GPS_34	427.024	149169.2430	1190049.3560
35	CTL PK IN SHINER	421.934	148613.5950	1190037.4580
36	CTL PK IN SHINER	457.925	148093.1530	1189523.7390
5560	CTL	413.796	148305.6210	1189943.5160
5704	CTL	423.984	148069.7900	1189886.2690
536870913	CTL PAGIS_2054-0012	446.790	148939.6800	1188922.1300
536870914	CTL ARDOT_2320	453.396	149003.5320	1193883.5440
536870915	CTL ARDOT_A321-2007	407.251	150859.4640	1194293.5810
536870916	CTL ARDOT_600041A	405.658	150728.9610	1194218.7260
536870917	CTL ARDOT_600041	441.771	154577.6460	1194952.8880
536870918	CTL PAGIS_2055-0034	468.196	149561.3280	1189437.1400
536870919	CTL PAGIS_2055	365.100	145756.7200	1189796.6130
536870920	CTL ARDOT_Z-320	453.520	149003.6570	1193883.5370
536870921	CTL 80D	461.041	149693.1970	1189871.2520
536870922	CTL OPUS FAST	461.236	149693.1550	1189871.2910
536870923	CTL PAGIS_2054-0011	472.900	148279.1100	1188904.4100
536870924	CTL PAGIS	573.958	184705.9800	1236355.2680
536870925	CTL PAGIS-2055	365.470	145757.9900	1189797.9500
536870926	CTL PAGIS_2055-0033	451.590	149549.6200	1189784.4100
536870927	CTL ARDOT_600041A	413.078	150728.9570	1194218.8290
536870928	CTL ARDOT_600041	441.919	154577.6250	1194952.9630
536870929	CTL PAGIS_2055-0034	458.600	149562.3800	1189438.3500
536870930	CTL PAGIS_2055	365.099	145756.7250	1189796.6380
536870933	CTL PK	425.686	148586.0590	1189943.9270
536870934	CTL 80D	414.566	148138.1390	1189976.1560
536870935	CTL 80D	418.216	147659.8950	1190220.6120
536870936	CTL 80D	411.596	147380.5940	1190100.8460
536870937	CTL 80D	417.588	147113.9050	1189832.0120
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REVISIONS	DATE

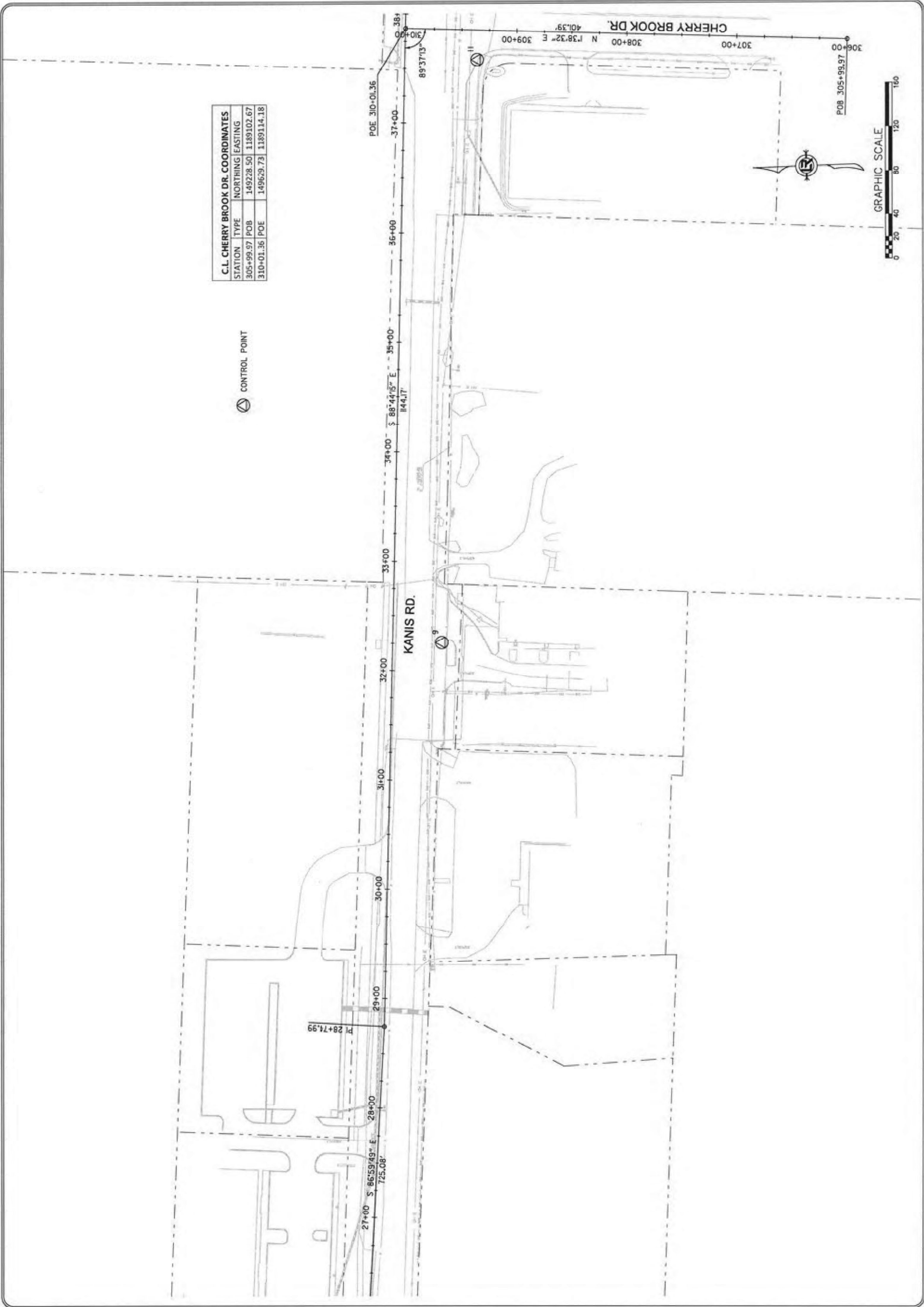
CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD  
 FIELD TIES / LAYOUT SHEET 3

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



STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 N. 11487  
 KEVIN G. TOBLESKY

DRAWN BY	3-15-17
DESIGNED	
RFR	
CHECKED	
KGT	
DATE	02/24/17
SCALE	1" = 80'
PROJECT NO	13-B-5D-6A
SHEET NO.	C8.4




C.L. CHERRY BROOK DR. COORDINATES

STATION	TYPE	NORTHING	EASTING
305+99.97	POB	149228.50	1189102.67
310+01.36	POE	149623.73	1189114.18

REVISIONS	DATE

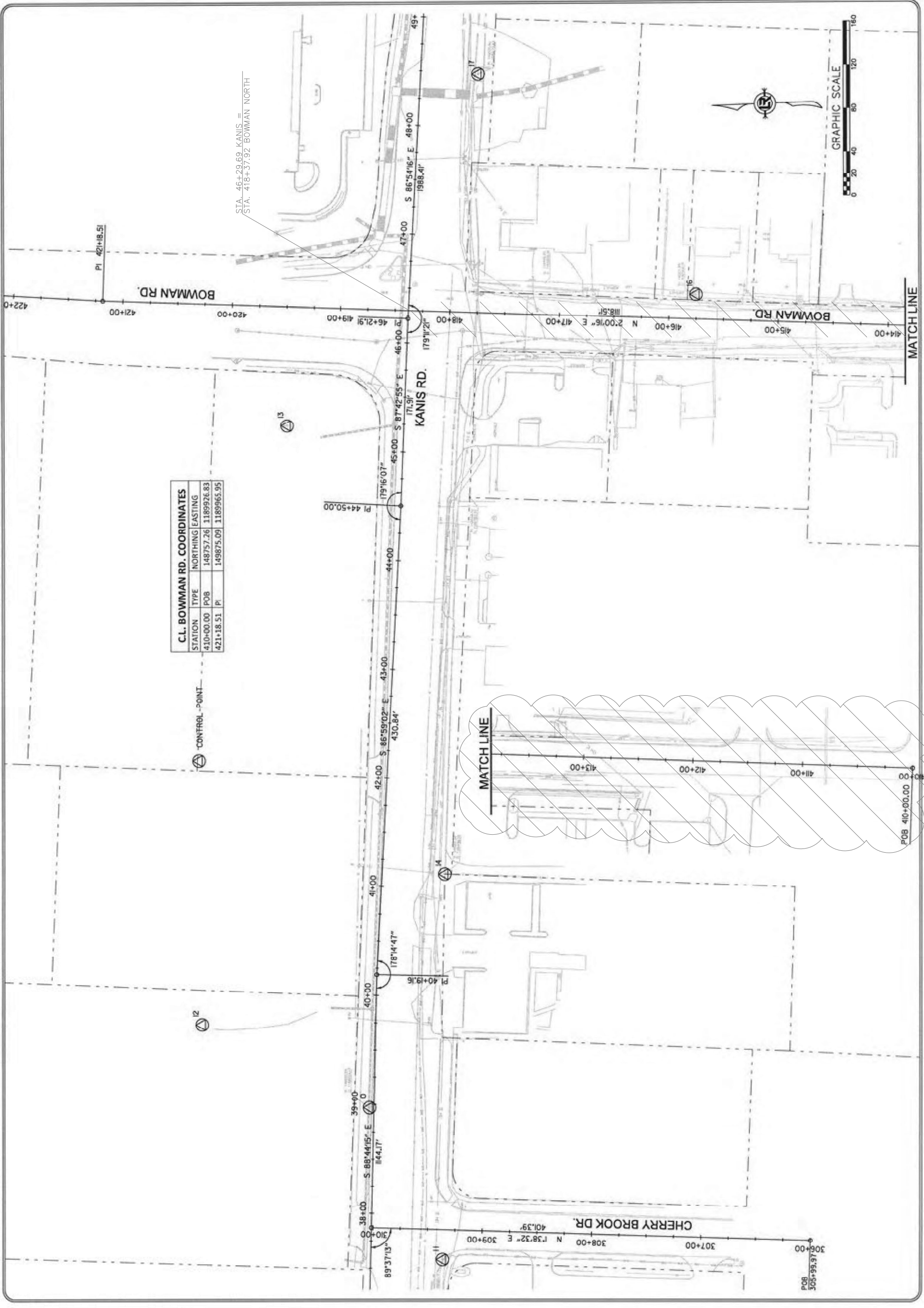
CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD  
 FIELD TIES / LAYOUT SHEET 4

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



STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 N. 11.47  
 KEVIN G. TOBESKY

DRAWN BY	3-15-17
DESIGNED	
RF	
CHECKED	
KG	
DATE	02/24/17
SCALE	1" = 80'
PROJECT NO.	13-B-5D-6A
SHEET NO.	C8.5



C.L. BOWMAN RD. COORDINATES

STATION	TYPE	NORTHING	EASTING
410+00.00	POB	148757.26	1189926.83
421+18.51	PI	149875.09	1189965.95

STA. 46+29.69, KANIS =  
 STA. 418+37.92 BOWMAN NORTH



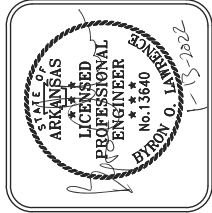
MATCHLINE

MATCHLINE

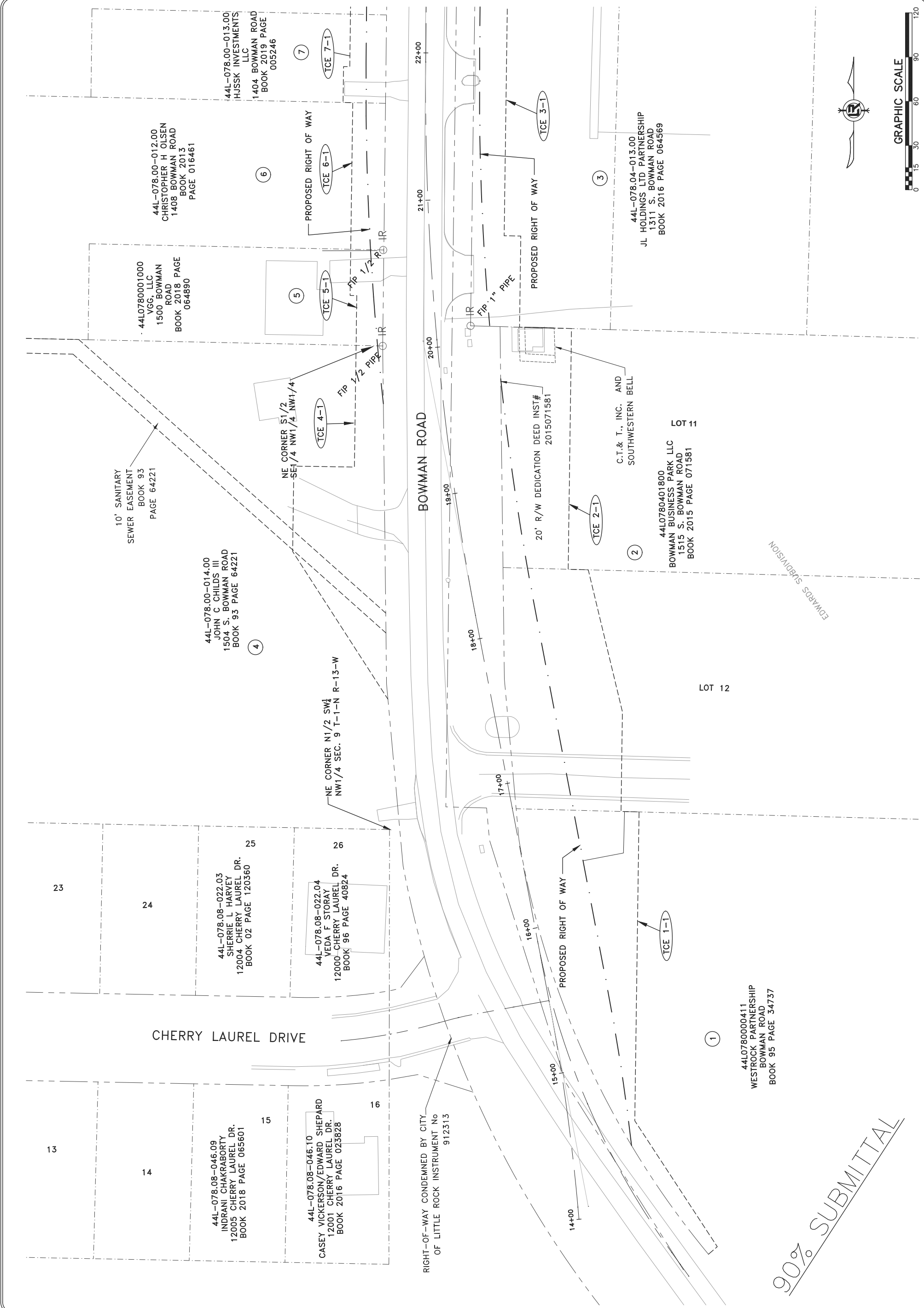
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
 R.O.W. PARCEL KEY MAP (1)

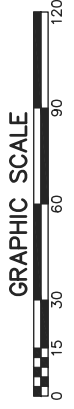
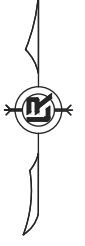
**DEPARTMENT OF PUBLIC WORKS**  
**CIVIL ENGINEERING**  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



<b>DRAWN BY</b> KLL	<b>DESIGNED</b> COF	<b>CHECKED</b> BOL	<b>DATE</b> 12-11-2020
<b>SCALE</b> 1" = 20'			<b>PROJECT NO.</b> CLR 6-15-ST-249
			<b>SHEET NO.</b> C9.0



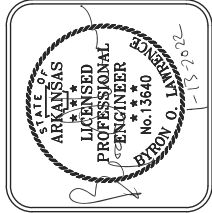
**90% SUBMITTAL**



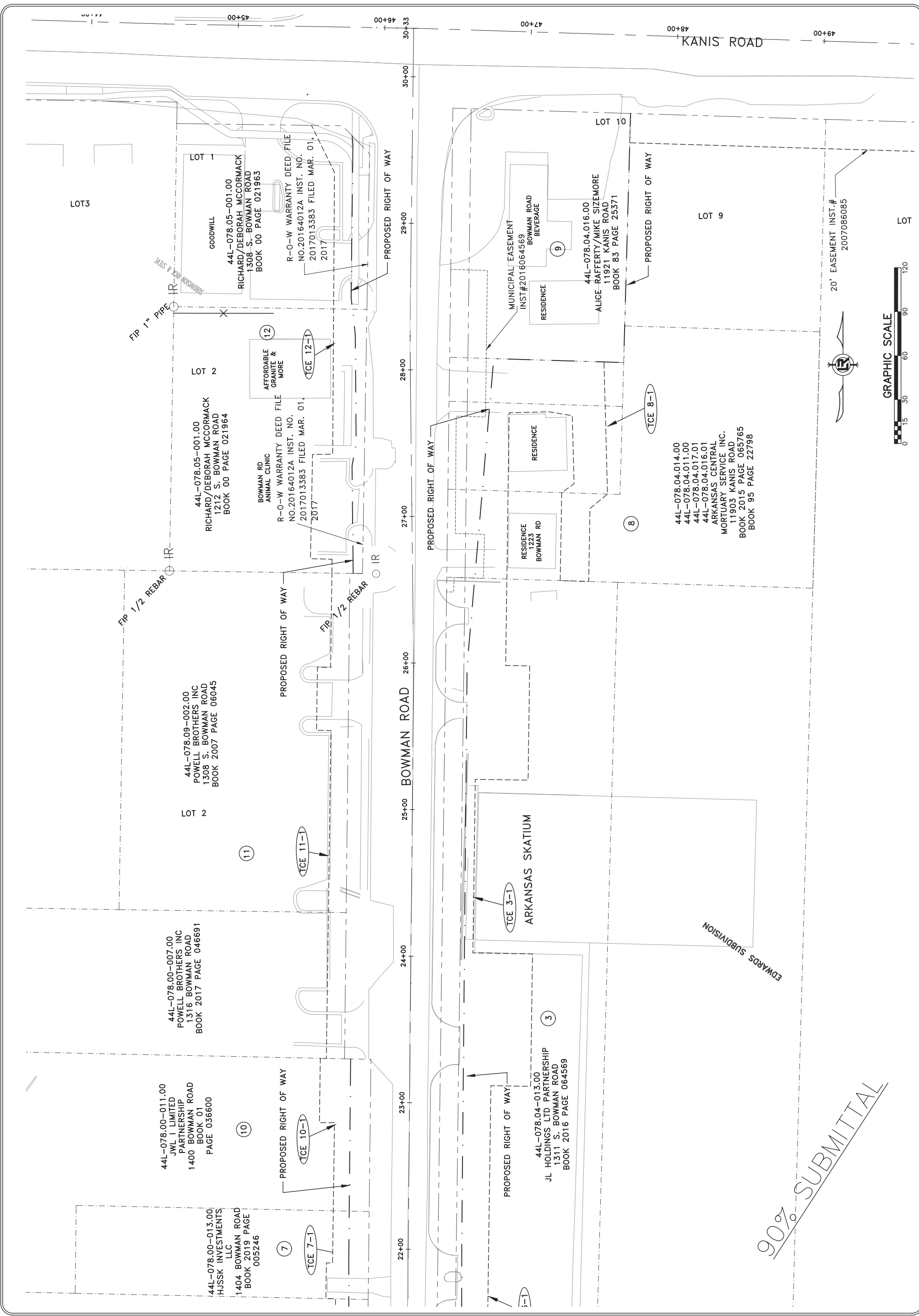
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**R.O.W. PARCEL KEY MAP (2)**

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



<b>DRAWN BY</b>	KLL
<b>DESIGNED</b>	COF
<b>CHECKED</b>	BOL
<b>DATE</b>	12-11-2020
<b>SCALE</b>	1" = 20'
<b>PROJECT NO.</b>	CLR 6-15-ST-249
<b>SHEET NO.</b>	<b>C9.1</b>



**90% SUBMITTAL**

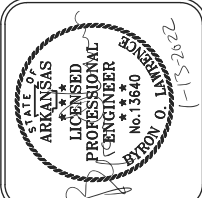


20' EASEMENT INST. #  
2007086085

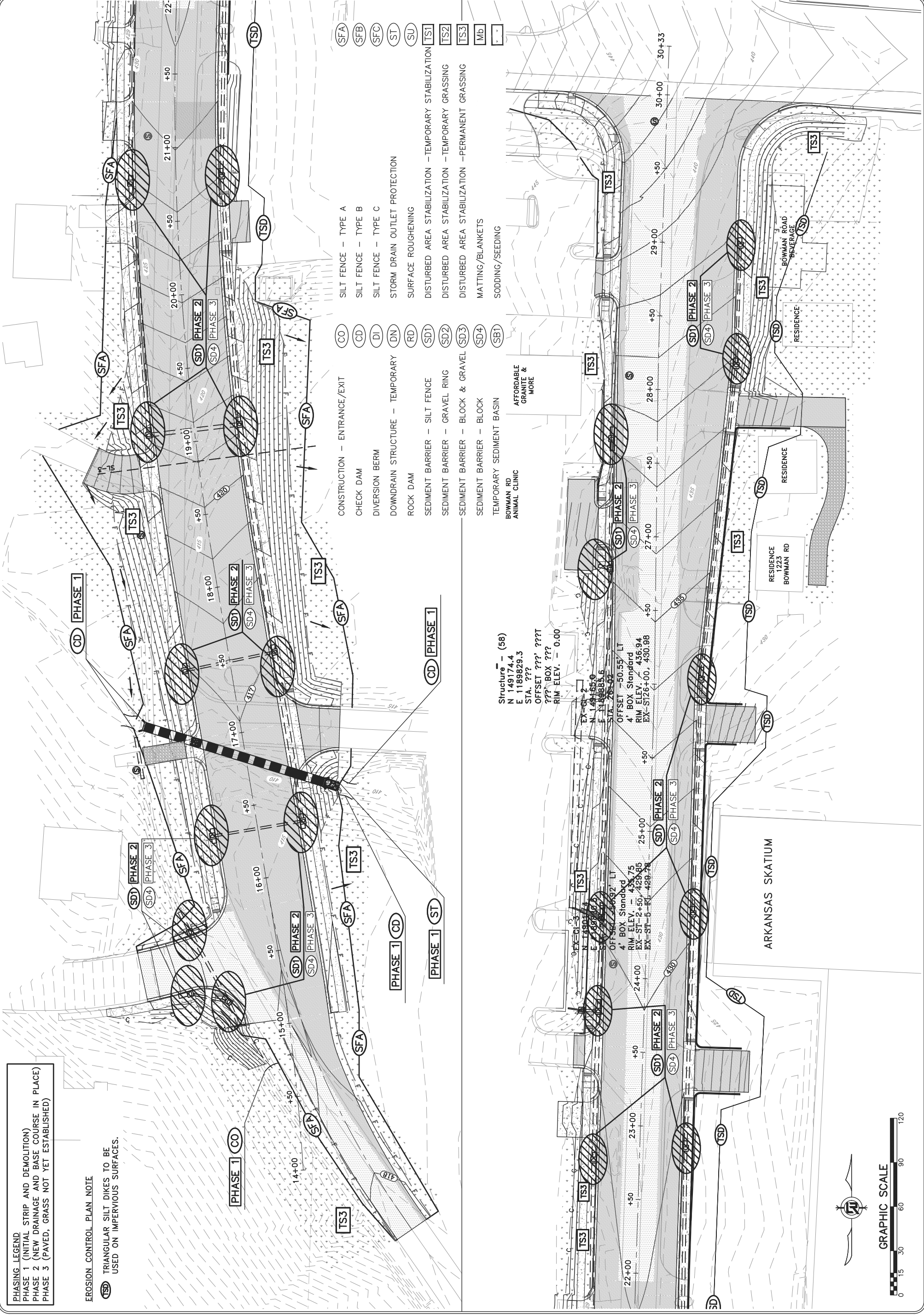
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**BOWMAN ROAD RECONSTRUCTION**  
**EROSION CONTROL PLAN**

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



DRAWN BY	KLL
DESIGNED	COF
CHECKED	BOL
DATE	12-11-2020
SCALE	1"=30'
PROJECT NO.	CLR 6-15-ST-249
SHEET NO.	C10.0



**PHASING LEGEND**  
 PHASE 1 (INITIAL STRIP AND DEMOLITION)  
 PHASE 2 (NEW DRAINAGE AND BASE COURSE IN PLACE)  
 PHASE 3 (PAVED, GRASS NOT YET ESTABLISHED)

**EROSION CONTROL PLAN NOTE**

**TS3** TRIANGULAR SILT DIKES TO BE USED ON IMPERVIOUS SURFACES.

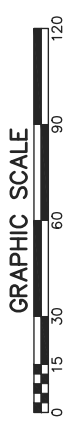
- CO** CONSTRUCTION - ENTRANCE/EXIT
- CD** CHECK DAM
- DI** DIVERSION BERM
- DN** DOWNDRAIN STRUCTURE - TEMPORARY
- RD** ROCK DAM
- SD1** SEDIMENT BARRIER - SILT FENCE
- SD2** SEDIMENT BARRIER - GRAVEL RING
- SD3** SEDIMENT BARRIER - BLOCK & GRAVEL
- SD4** SEDIMENT BARRIER - BLOCK
- SBI** TEMPORARY SEDIMENT BASIN
- SFA** AFFORDABLE GRANITE & MORE
- TS3** BOWMAN RD ANIMAL CLINIC
- TS3** RESIDENCE
- TS3** RESIDENCE 1223 BOWMAN RD
- TS3** RESIDENCE
- TS3** BOWMAN ROAD "BEVERAGE"
- TS3** RESIDENCE
- SFA** SILT FENCE - TYPE A
- SFB** SILT FENCE - TYPE B
- SFC** SILT FENCE - TYPE C
- ST** STORM DRAIN OUTLET PROTECTION
- SU** SURFACE ROUGHENING
- TS1** DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION
- TS2** DISTURBED AREA STABILIZATION - TEMPORARY GRASSING
- TS3** DISTURBED AREA STABILIZATION - PERMANENT GRASSING
- Mb** MATTING/BLANKETS
- S** SODDING/SEEDING

Structure - (58)  
 N 149174.4  
 E 1189829.3  
 STA. ???  
 OFFSET ???' ???  
 ??? BOX ???  
 RIM ELEV. - 0.00

EX-ST-1  
 N 149047.1  
 E 950109.9  
 STA. 23+57.2  
 OFFSET 75.692' LT  
 4' BOX Standard  
 RIM ELEV. - 438.75  
 EX-ST-2+50/429.85  
 EX-ST-5-RT/429.78

EX-ST-2  
 N 149155.0  
 E 118888.6  
 STA. 28.57  
 OFFSET -50.55' LT  
 4' BOX Standard  
 RIM ELEV. 436.94  
 EX-ST-2+50/430.98

ARKANSAS SKATIUM





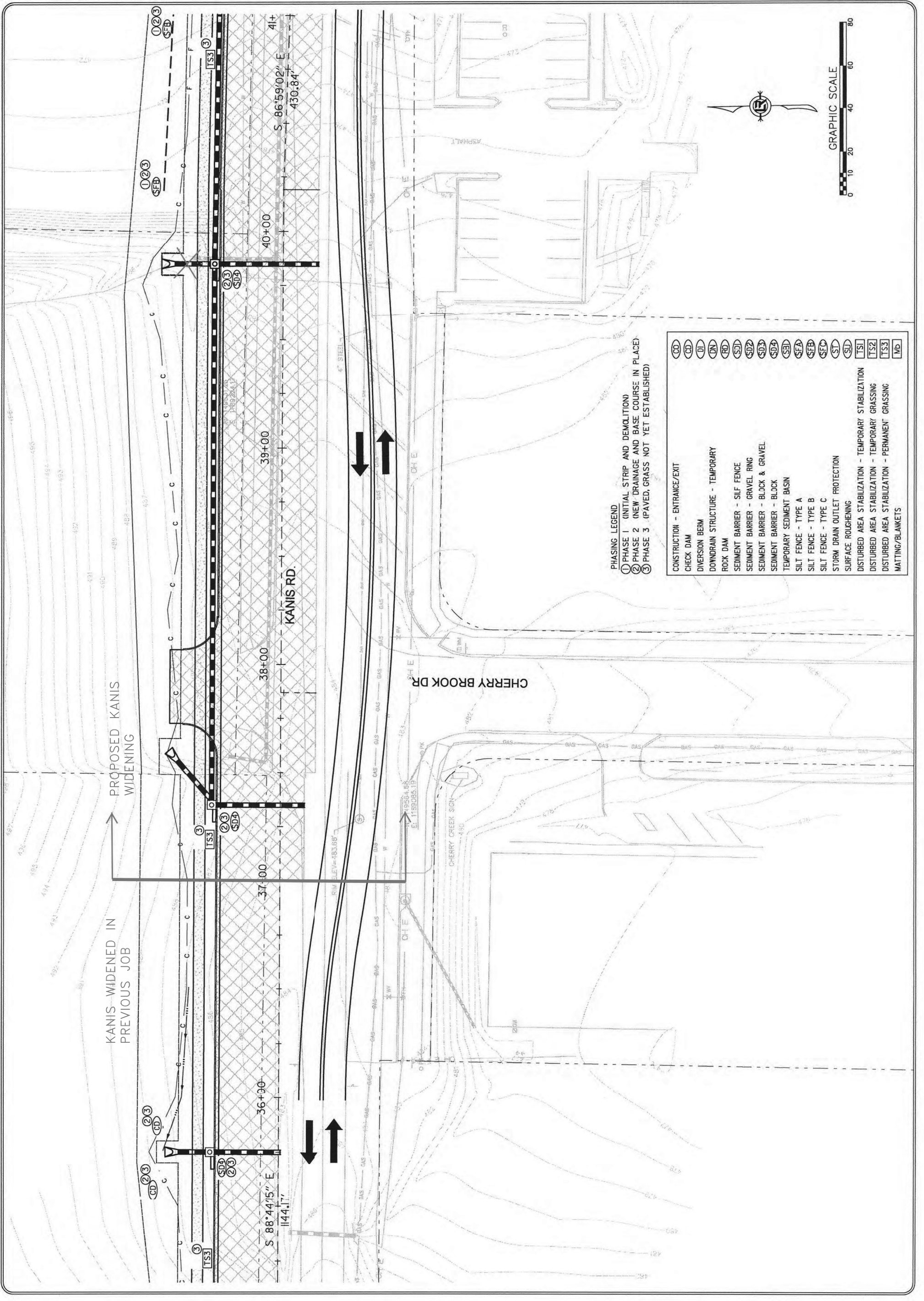
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD  
 TEMPORARY EROSION CONTROL PLAN  
 KANIS ROAD  
 GAMBLE TO SHACKLEFORD - STAGE 1  
 SHEET 6

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

STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 11427  
 KEVIN G. TOBLESKY

DRAWN BY	FRF
DESIGNED	FRF
CHECKED	KGT
DATE	02/24/17
SCALE	1" = 40'
PROJECT NO.	13-B-5D-6A
SHEET NO.	C10.1



- PHASING LEGEND
- ① PHASE 1 (INITIAL STRIP AND DEMOLITION)
  - ② PHASE 2 (NEW DRAINAGE AND BASE COURSE IN PLACE)
  - ③ PHASE 3 (PAVED, GRASS NOT YET ESTABLISHED)

(C0)	CONSTRUCTION - ENTRANCE/EXIT
(C1)	CHECK DAM
(C2)	DIVERSION BERM
(C3)	DOWNDRAIN STRUCTURE - TEMPORARY
(C4)	ROCK DAM
(C5)	SEDIMENT BARRIER - SILT FENCE
(C6)	SEDIMENT BARRIER - BLOCK & GRAVEL
(C7)	SEDIMENT BARRIER - BLOCK
(C8)	TEMPORARY SEDIMENT BASIN
(C9)	SILT FENCE - TYPE A
(C10)	SILT FENCE - TYPE B
(C11)	SILT FENCE - TYPE C
(C12)	STORM DRAIN OUTLET PROTECTION
(C13)	SURFACE ROUGHENING
(C14)	DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION
(C15)	DISTURBED AREA STABILIZATION - TEMPORARY GRASSING
(C16)	DISTURBED AREA STABILIZATION - PERMANENT GRASSING
(C17)	MATTING/BLANKETS

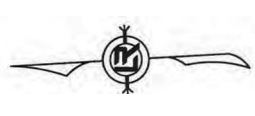
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD  
 TEMPORARY EROSION CONTROL PLAN  
 KANIS ROAD  
 GAMBLE TO SHACKLEFORD - STAGE 1  
 SHEET 7

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

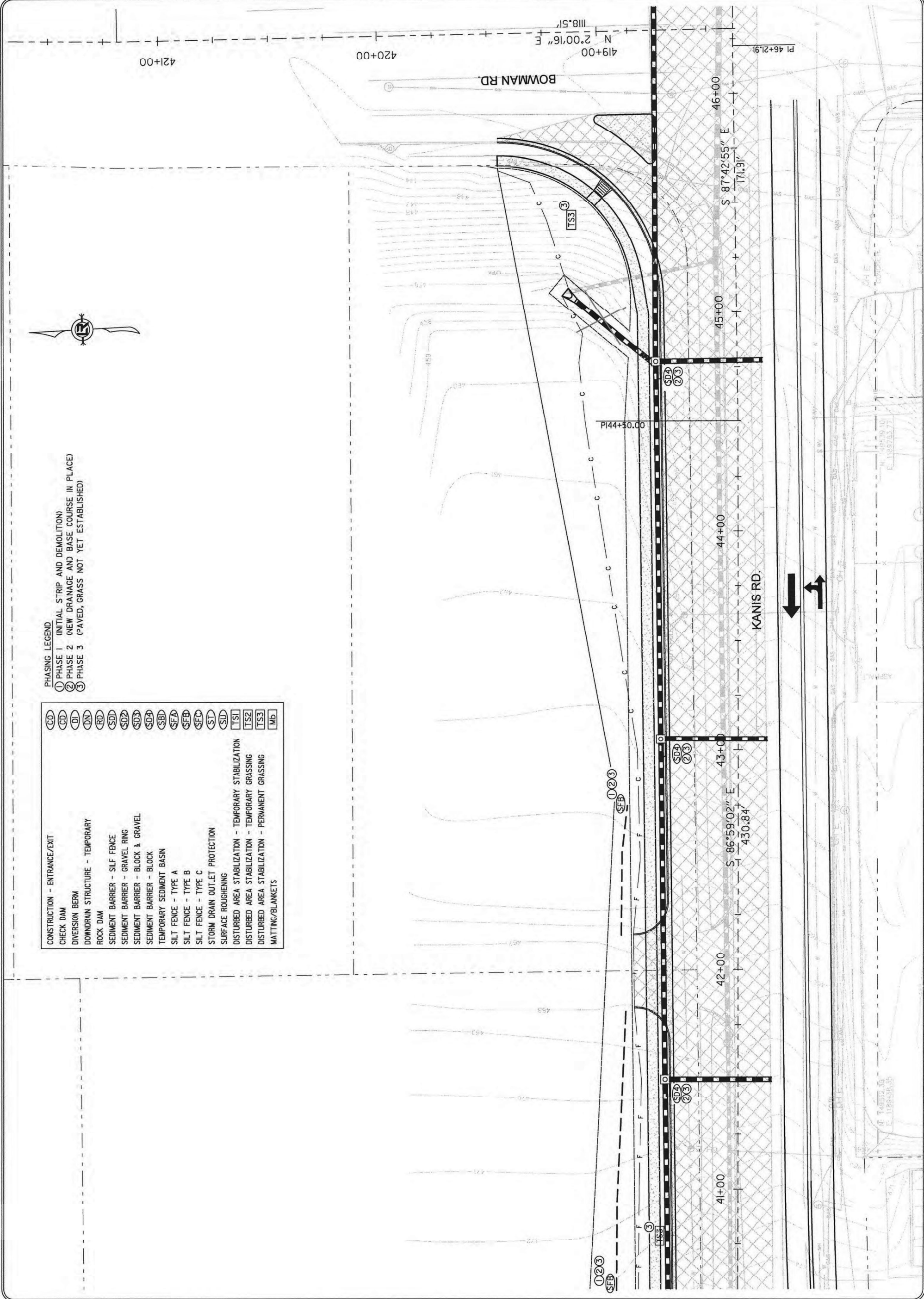
STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 N. 11427  
 KEVIN G. TOBLESKY

3-15-17  
 DRAWN BY RFR  
 DESIGNED RFR  
 CHECKED KGT  
 DATE 02/24/17  
 SCALE 1" = 40'  
 PROJECT NO. 13-B-SD-6A  
 SHEET NO. C10.2



PHASING LEGEND  
 ① PHASE 1 (INITIAL STRIP AND DEMOLITION)  
 ② PHASE 2 (NEW DRAINAGE AND BASE COURSE IN PLACE)  
 ③ PHASE 3 (PAVED, GRASS NOT YET ESTABLISHED)


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



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD  
 TEMPORARY EROSION CONTROL PLAN  
 KANIS ROAD  
 GAMBLE TO SHACKLEFORD - STAGE 1  
 SHEET 8

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



STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 N. 11,427  
 KEVIN G. TOBLESKY

DRAWN BY	3-15-17
DESIGNED	
CHECKED	
DATE	02/24/17
SCALE	1" = 40'
PROJECT NO.	13-B5D-6A
SHEET NO.	C10.3

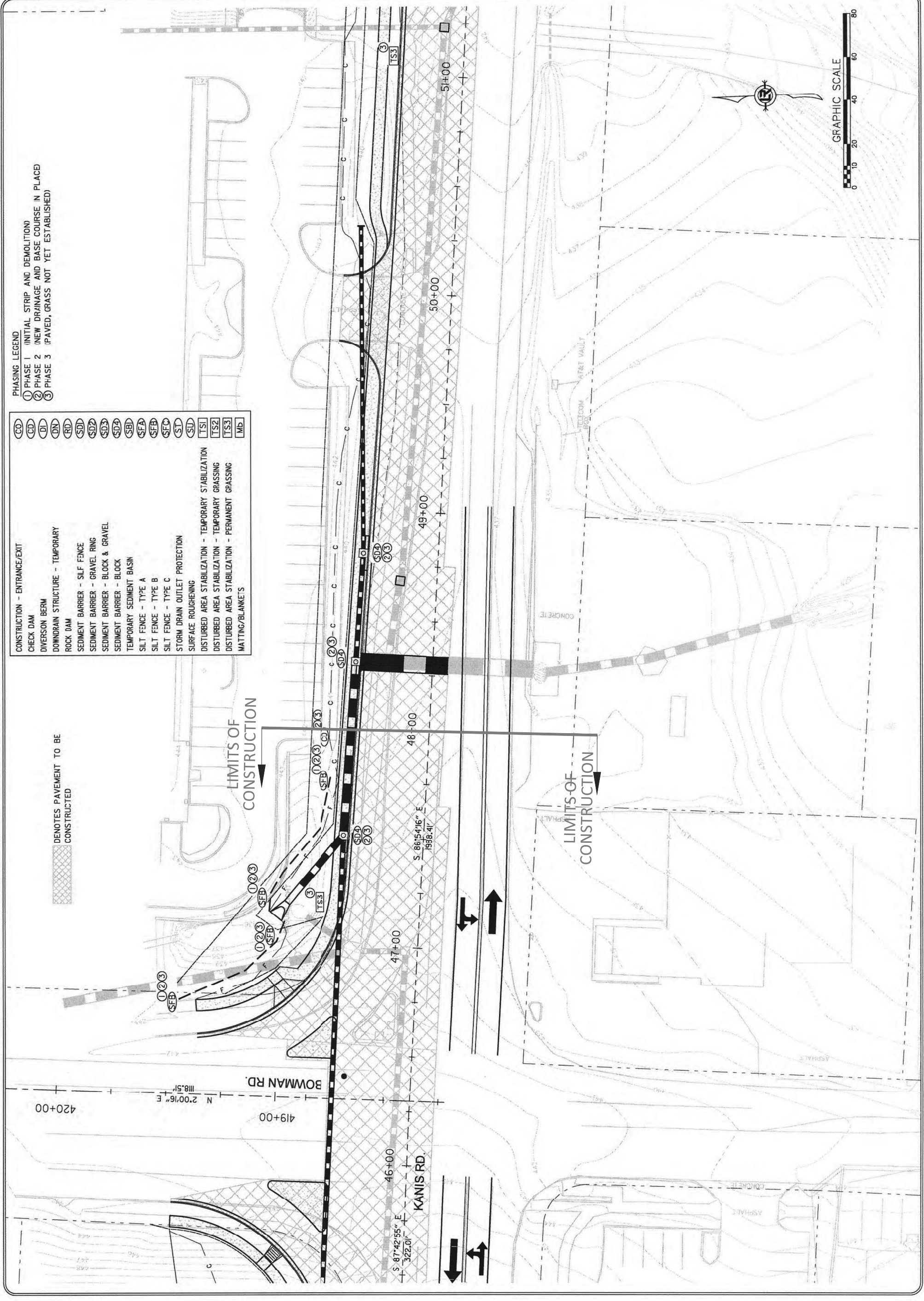
- PHASING LEGEND
- ① PHASE 1 (INITIAL STRIP AND DEMOLITION)
  - ② PHASE 2 (NEW DRAINAGE AND BASE COURSE IN PLACE)
  - ③ PHASE 3 (PAVED, GRASS NOT YET ESTABLISHED)

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

⊞ DENOTES PAVEMENT TO BE CONSTRUCTED

LIMITS OF CONSTRUCTION

LIMITS OF CONSTRUCTION



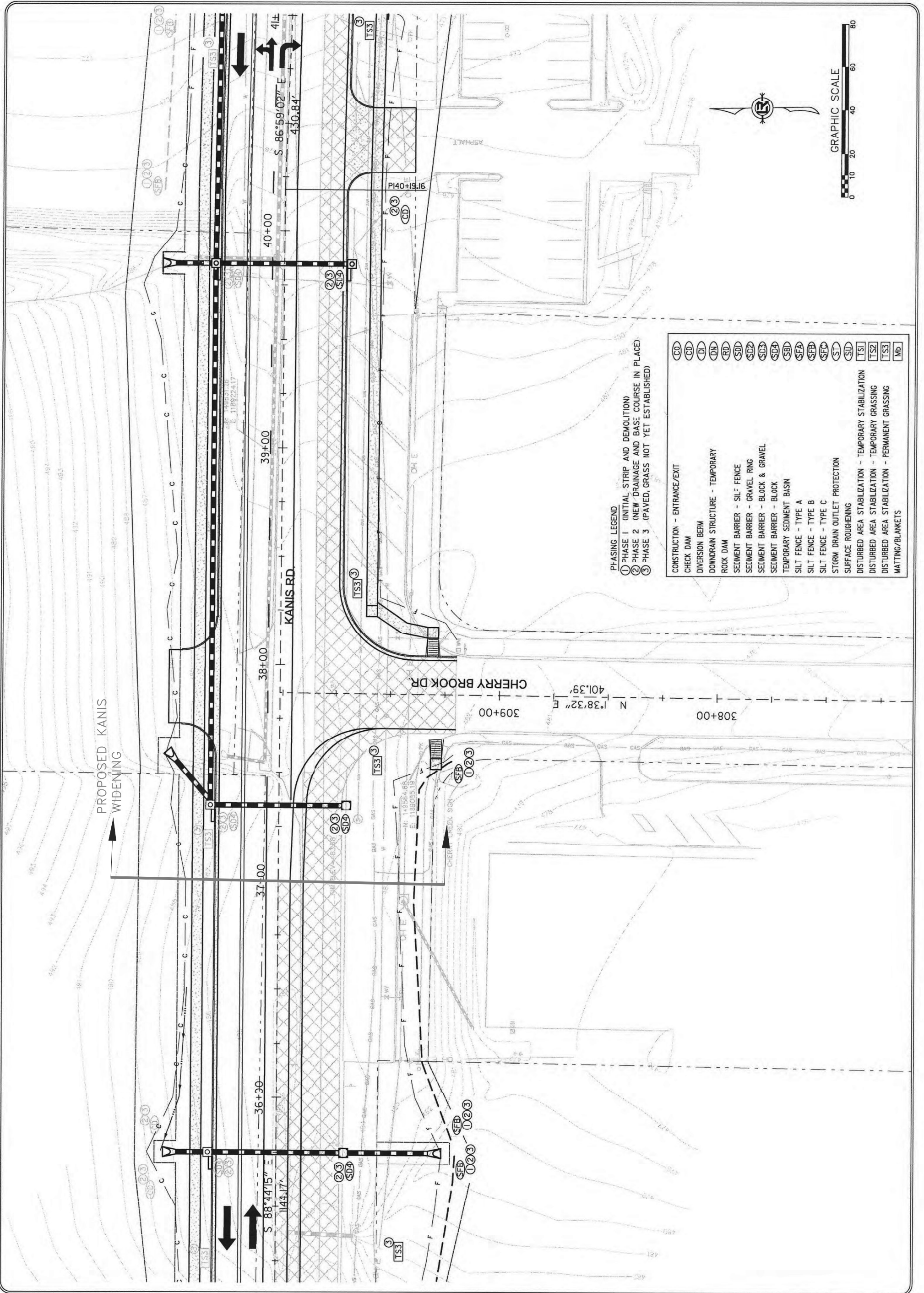
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD  
 TEMPORARY EROSION CONTROL PLAN  
 KANIS ROAD  
 GAMBLE TO SHACKLEFORD - STAGE 2  
 SHEET 22

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



DRAWN BY  
 RFR  
 DESIGNED  
 RFR  
 CHECKED  
 KGT  
 DATE  
 02/24/17  
 SCALE  
 1" = 40'  
 PROJECT NO.  
 13-B-5D-6A  
 SHEET NO.  
 C10.4



PHASING LEGEND  
 ① PHASE 1 (INITIAL STRIP AND DEMOLITION)  
 ② PHASE 2 (NEW DRAINAGE AND BASE COURSE IN PLACE)  
 ③ PHASE 3 (PAVED, GRASS NOT YET ESTABLISHED)


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



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD  
 TEMPORARY EROSION CONTROL PLAN  
 KANIS ROAD  
 GAMBLE TO SHACKLEFORD - STAGE 2  
 SHEET 23

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



STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 KEVIN G. TOBLESKY  
 No. 11477  
 3-15-17

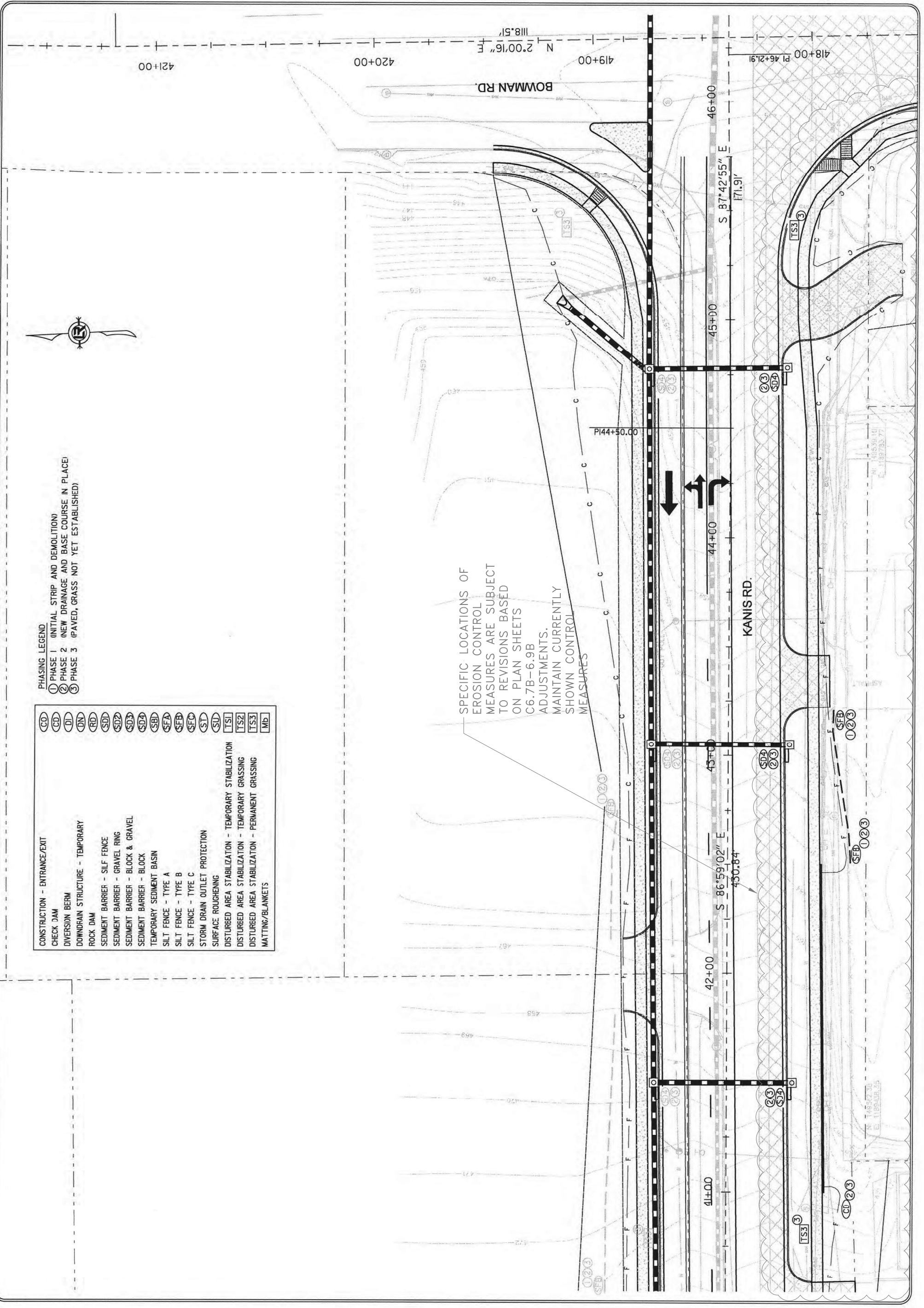
DRAWN BY  
 RFR  
 DESIGNED  
 RFR  
 CHECKED  
 KGT  
 DATE  
 02/24/17  
 SCALE  
 1" = 40'  
 PROJECT NO.  
 13-B-5D-6A  
 SHEET NO.  
**C10.5**



- PHASING LEGEND
- ① PHASE 1 (INITIAL STRIP AND DEMOLITION)
  - ② PHASE 2 (NEW DRAINAGE AND BASE COURSE IN PLACE)
  - ③ PHASE 3 (PAVED, GRASS NOT YET ESTABLISHED)

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


SPECIFIC LOCATIONS OF  
 EROSION CONTROL  
 MEASURES ARE SUBJECT  
 TO REVISIONS BASED  
 ON PLAN SHEETS  
 C6.7B-6.9B  
 ADJUSTMENTS.  
 MAINTAIN CURRENTLY  
 SHOWN CONTROL  
 MEASURES



REVISIONS	DATE

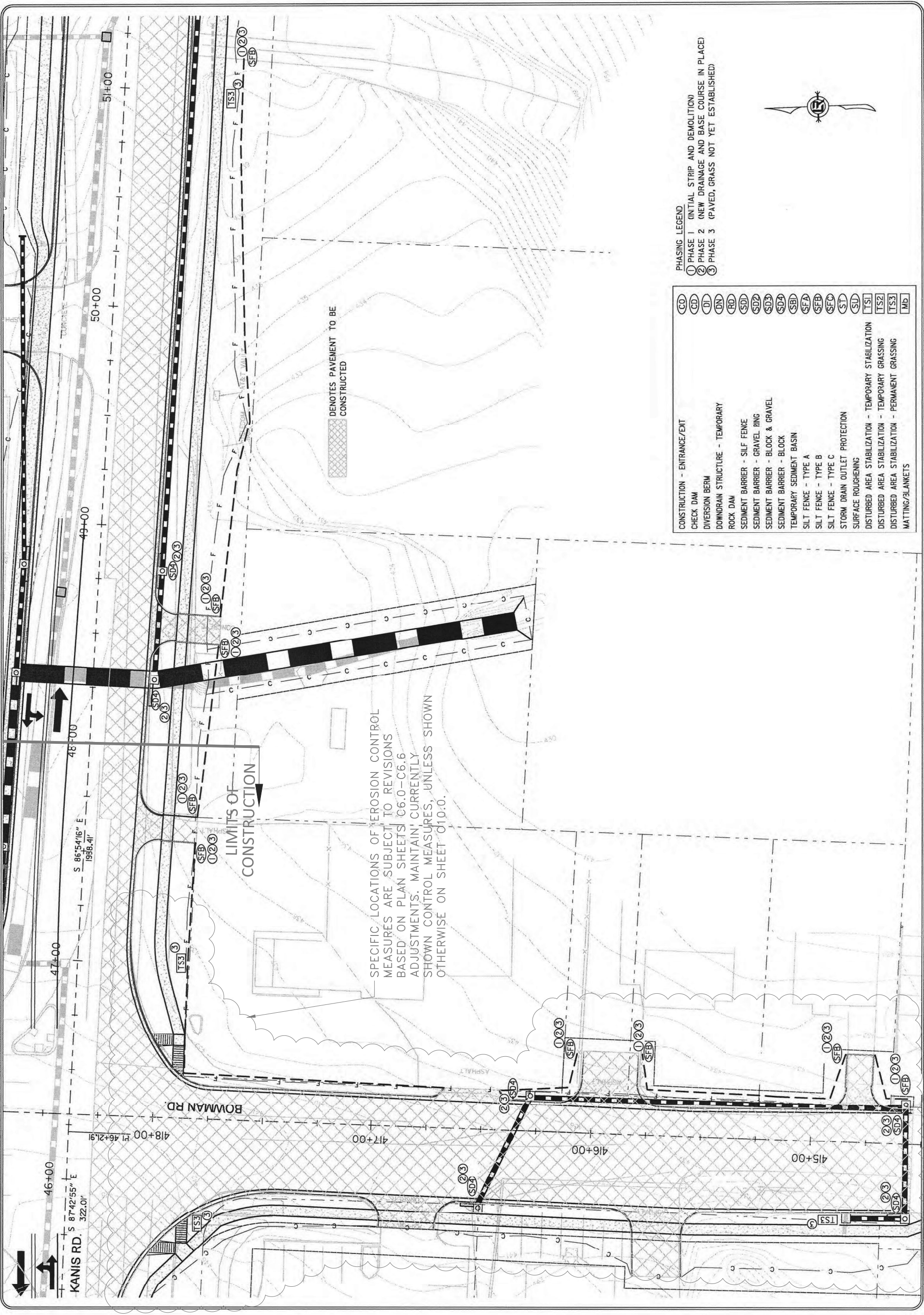
CITY OF LITTLE ROCK, ARKANSAS  
 KANIS ROAD  
 TEMPORARY EROSION CONTROL PLAN  
 KANIS ROAD - STAGE 2  
 SHEET 24

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



STATE OF ARKANSAS  
 REGISTERED PROFESSIONAL ENGINEER  
 N. 11487  
 KEVIN G. TOBLESKY

DRAWN BY	3-15-17
DESIGNED	
CHECKED	
DATE	02/24/17
SCALE	1" = 40'
PROJECT NO.	13-B-5D-6A
SHEET NO.	C10.6



PHASING LEGEND  
 ① PHASE 1 (INITIAL STRIP AND DEMOLITION)  
 ② PHASE 2 (NEW DRAINAGE AND BASE COURSE IN PLACE)  
 ③ PHASE 3 (PAVED, GRASS NOT YET ESTABLISHED)

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

