SHADES CREEK GREENWAY
PROJECT NO. 240305

BIRMINGHAM, ALABAMA

PREPARED BY:

DYNAMIC CIVIL SOLUTIONS
CIVIL & TRANSPORTATION ENGINEERS
2210 2nd Avenue North
Birmingham, AL 35203
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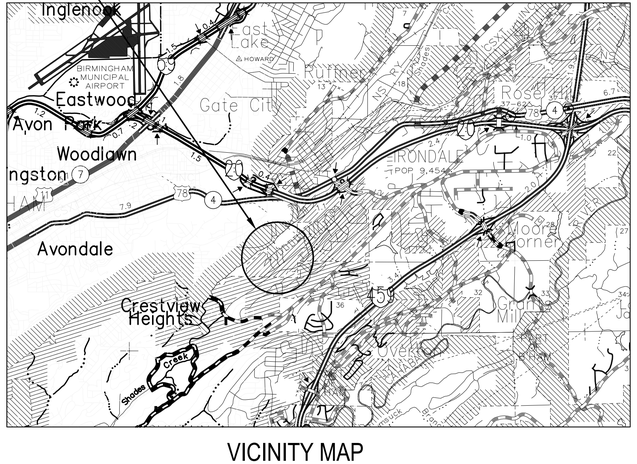
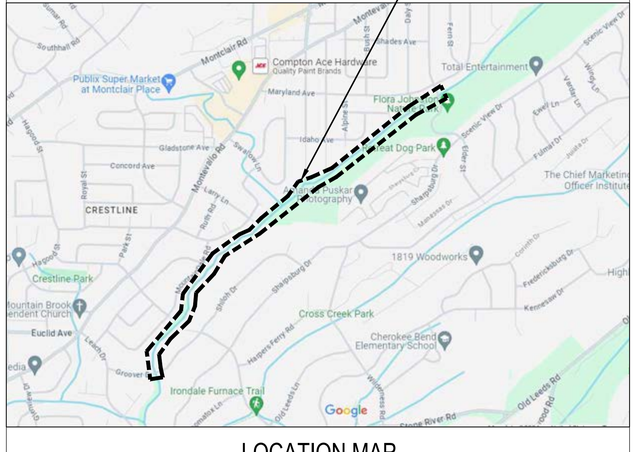
PROJECT VICINITY



VICINITY MAP
1 INCH = 1 MILE

PROJECT LIMITS



LOCATION MAP
NOT TO SCALE

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SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

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EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING AND MAINTAINING TEMPORARY EROSION CONTROL DEVICES THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT PROPERTY, STREAMS, CHANNELS AND PUBLIC ROADS FROM SEDIMENT AND RUN-OFF. THE CONTRACTOR SHALL BE RESPONSIBLE AND ASSUME ANY LIABILITY DAMAGE OR CLEAN-UP DUE TO FAILURE OR BREACH OF THE EROSION CONTROL SYSTEM.
2. THE CONTRACTOR SHALL BEAR THE BURDEN OF COST OF ANY FINES RESULTING FROM IMPROPER DISCHARGE OF SEDIMENT OR ANY OTHER VIOLATION ASSOCIATED WITH THIS PROJECT.
3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE EROSION AND SEDIMENT CONTROL MEASURES AS A CONTINUING PROGRAM UNTIL ALL SITE WORK IS COMPLETE. THIS INCLUDES BUT NOT LIMITED TO, REPAIRING DAMAGED DEVICES DUE TO STORMS OR BREACHES. EROSION CONTROL MEASURES SHOULD BE INSPECTED ON A DAILY BASIS TO INSURE THAT, BERMS AND SILT FENCES HAVE NOT BEEN BREACHED AND THAT CHANNELS ARE FREE OF SEDIMENT BUILD-UP AND DEBRIS.
4. IMPLEMENTATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE PRIOR TO THE COMMENCEMENT OF EARTH MOVING OPERATIONS.
5. ANY EROSION CONTROL DEVICES COMPROMISED BY A BUILD-UP OF SEDIMENT SHALL BE REPAIRED OR REPLACED, AS NECESSARY.
6. AFTER ALL WORK IS COMPLETE AND DEEMED ACCEPTABLE TO THE OWNER AND/OR OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL DEVICES AND CLEAN UP THE SITE.
7. THE CONTRACTOR SHALL PREPARE, PAY FOR, AND ACQUIRE AN ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NPDES PERMIT FOR THIS PROJECT. THE CONTRACTOR SHALL BE BOUND BY ALL REQUIREMENTS OF THE NPDES PERMIT AND SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES, WHICH MAY BE ASSESSED AS A RESULT OF FAILURE TO COMPLY. ALL REQUIRED MONITORING, INSPECTIONS AND REPORTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. DUST GENERATION FROM THE CONTRACTOR'S PERFORMANCE OF WORK, EITHER INSIDE OR OUTSIDE OWNER'S PROPERTY SHALL BE CONTROLLED BY THE CONTRACTOR BY APPLYING WATER. CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR ANY PENALTIES ASSESSED OR FINES LEVIED BY THE CITY, COUNTY, STATE, OR FEDERAL AGENCY FOR THE FAILURE TO IMPLEMENT REASONABLE DUST CONTROL MEASURES IN ACCORDANCE WITH GENERAL LOCAL PRACTICES.
9. THE CONTRACTOR SHALL ENSURE THAT ALL STREETS ARE CLEAN OF DEBRIS, MUD, SILT, DIRT, ETC. AT ALL TIMES.
10. CONTRACTOR SHALL IMPLEMENT ALL EROSION CONTROL DEVICES AS INDICATED ON PLANS. ADDITIONAL EROSION CONTROL DEVICES SHALL BE IMPLEMENTED AS DICTATED BY SITE CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

GENERAL NOTES

1. THIS PROJECT SHALL COMPLY WITH THE STANDARD SPECIFICATIONS, LATEST REVISION OF THE GOVERNING AGENCIES HAVING JURISDICTION OVER THE PROJECT.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES. NO ADDITIONAL PAYMENT WILL BE MADE FOR DIFFERING SITE CONDITIONS ONCE WORK HAS BEGUN.
3. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS NOTICE TO THE ENGINEER IN THE EVENT THAT ANY UTILITY SERVICE OR TRAFFIC FLOW IS GOING TO BE DISRUPTED AS A RESULT OF CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL AT ALL TIMES SO CONDUCT HIS WORK AS TO ASSURE THE LEAST POSSIBLE OBSTRUCTION TO TRAFFIC. THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE PROTECTION OF PERSONS AND THE PROPERTY SHALL BE PROVIDED FOR BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL BEAR THE BURDEN OF ALL TEMPORARY UTILITIES FOR THE DURATION OF THE PROJECT.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS REQUIRED TO PERFORM THIS WORK AND COMPLETE THIS PROJECT.
7. HANDICAP ACCESSIBLE ROUTES SHALL NOT EXCEED A 5% LONGITUDINAL SLOPE AND A 2% CROSS SLOPE.
8. THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND BECOME FAMILIAR WITH ALL ASPECTS OF THE WORK REQUIRED TO COMPLETE THIS PROJECT TO THE SATISFACTION OF THE OWNER, THE OWNER'S REPRESENTATIVE AND ALL GOVERNING ENTITIES.
9. CONTRACTOR IS TO ENSURE ALL REQUIRED CURB, GUTTER, SIDEWALK AND PAVEMENT ARE PROPERLY TRANSITIONED TO MATCH EXISTING WIDTHS AND HEIGHTS OF SUCH STRUCTURES.
11. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL WHICH SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D OR THE GOVERNING ENTITY'S REQUIREMENTS (WHICHEVER IS MORE STRINGENT). THE RESPONSIBILITY AND IMPLEMENTATION COSTS FOR TRAFFIC CONTROL REQUIRED BEFORE, DURING, OR AFTER THE PROJECT CONSTRUCTION ACTIVITY, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE DEVELOPMENT OF ALL REQUIRED CONSTRUCTION TRAFFIC CONTROL SHALL BE INCLUDED AS PART OF THE BID AND SHALL BE IMPLEMENTED AT NO ADDITIONAL COST TO THE OWNER. ALL COSTS INCLUDING ENGINEERING DESIGN, LABOR, EQUIPMENT, PERMITS, INSTALLATION, OVERHEAD AND PROFIT NECESSARY TO MEET THE SPECIFIED REQUIREMENTS SHALL BE CONSIDERED AS INCIDENTAL AND NECESSARY PART OF THE WORK, THE COST OF WHICH SHALL BE INCLUDED IN THE PRICES BID FOR OTHER ITEMS OF WORK.
12. THE CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF BIRMINGHAM'S STORM WATER MANAGEMENT OFFICE AT (205) 297-8168, 48 HOURS PRIOR TO BEGINNING WORK ON THE STORM DRAINAGE.
13. PRIOR TO THE STORM SYSTEM BEING ACCEPTED BY THE CITY OF BIRMINGHAM, THE FOLLOWING ARE REQUIRED:
    a. A STATEMENT FROM THE ENGINEER OF RECORD, STATING THE STORM SYSTEM WAS BUILT IN ACCORDANCE WITH THE PLANS ON FILE IN THE DEPARTMENT OF PLANNING, ENGINEERING AND PERMITS.
    b. AS-BUILT DRAWINGS OF THE CIVIL AND STORM WATER SYSTEMS FROM THE CONTRACTOR.
14. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING AND LAYOUT.
16. THE INSTALLATION OF THE ADDITIONAL STONE LAYERS AT PIPE ENDS NEEDED TO ACCOMMODATE THE PROPOSED TRAIL BUILDUP SHALL BE A SUBSIDIARY OF THE ASPHALT PAY ITEM. NO DIRECT PAYMENT SHALL BE MADE FOR THIS WORK.

SITE GRADING NOTES

1. GRADING OPERATIONS SHALL BE PERFORMED IN SUCH A MANNER SO TO ALLOW AMPLE QUANTITIES OF "SELECTED SOILS" TO BE HELD IN RESERVE OR STOCKPILED AS NECESSARY, TO PROVIDE THE REQUIRED MATERIALS FOR BACKFILLING "UNDER-CUT" AREAS. NO DIRECT PAYMENT WILL BE MADE FOR SUCH NECESSARY MANIPULATION AS DOUBLE HANDLING OR HAULING.
2. ALL AREAS DISTURBED BY GRADING OPERATIONS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
3. ANY "MUCKY" AREAS OF TOPSOIL ENCOUNTERED SHALL BE UNDERCUT AND PLACED IN A "SPOILS" PILE. SPOILS SHALL BE HAULED AWAY IN A MANNER SUITABLE TO THE OWNER.
4. ANY EXCESS EXCAVATION MATERIALS SHALL BE USED TO DRESS-DOWN AND/OR IMPROVE THE SLOPES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. CARE SHALL BE TAKEN DURING GRADING OPERATIONS SO AS NOT TO EXCEED THE PROPERTY BOUNDARIES.
6. NEW PAVEMENT IS TO BE APPLIED IN SUCH A MANNER AS TO PROMOTE POSITIVE DRAINAGE AND ELIMINATE/PREVENT PONDING.
7. SPOT ELEVATIONS SHOWN REPRESENT FINISHED GRADE OR EDGE OF PAVEMENT ELEVATIONS.

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SUMMARY OF QUANTITIES

NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	CLEARING AND GRUBBING	LS	1
2	DEMOLITION	LS	1
3	EROSION CONTROL	LS	1
4	UNCLASSIFIED EXCAVATION	CY	1,000
5	2" ASPHALT BINDER 3/4" MAX AGGREGATE SIZE, ALDOT 424B	TON	930
6	CRUSHED STONE BASE (4"), ALDOT 301A	CY	920
7	PRIME COAT	GAL	4,200
8	SEPARATION GEOTEXTILE	SY	8,000
9	4" CONCRETE PAVING (SIDEWALKS)	SY	250
10	HANDICAP ACCESSIBLE RAMP W/ DETECTABLE WARNING	EA	2
11	VALLEY GUTTER CROSSING	EA	2
12	6' HIGH PRIVACY FENCE	LF	1,650
13	SPLIT RAIL FENCING	LF	550
14	REMOVABLE BOLLARDS	EA	8
15	18" CURB & GUTTER	LF	200
16	PAVEMENT MARKINGS, THERMOPLASTIC	LS	1
17	SIGN AND POST ASSEMBLY	EA	9
18	REMOVE/REPLACE INLET TOP	EA	2
19	45'X10' SINGLE SPAN PEDESTRIAN BRIDGE	EA	1
20	25'X10' SINGLE SPAN PEDESTRIAN BRIDGE	EA	1
21	PEDESTRIAN HANDRAILS	LF	40
22	RED MAPLE	EA	6
23	RIVER BIRCH	EA	7
24	EASTERN REDBUD	EA	33
25	AMERICAN SYCAMORE	EA	6
26	SWAMP WHITE OAK	EA	22
27	OVERCUP OAK	EA	13
28	BALD CYPRESS	EA	15
29	AMERICAN BEAUTYBERRY	EA	28
30	NORTHERN SEA OATS, 3 GAL	EA	53
31	SUMMERSWEET	EA	19
32	SILKY DOGWOOD	EA	13
33	LITTLE HENRY® SWEETSPIRE	EA	192
34	WHITE CLOUD MUHLY GRASS	EA	160
35	DON'S DWARF WAX MYRTLE	EA	325
36	SWEET OLIVE	EA	7
37	NORTHERN SEA OATS 1 GAL	EA	155
38	WEEPING LOVEGRASS	EA	309
39	SWAMP SUNFLOWER	EA	31
40	CAPE BREEZE SWITCH GRASS	EA	1322
41	WILDFLOWER SEED MIX	EA	11604
42	PLANTING MIX	CY	495
43	TOPSOIL	CY	80
44	LANDSCAPE BLANKET	SF	23540
45	GATOR BAGS	EA	102
47	PINESTRAW MULCH	EA	610
48	SEEDING, IN KIND	SY	200

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SUMMARY OF QUANTITIES

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HORIZONTAL ALIGNMENT REPORT

BEGIN TRAIL CENTERLINE
N 1,277,222.1182 E 2,202,564.4258 0+00.00

CURVE (1)
PC N 1,277,222.1182 E 2,202,564.4258 0+00.00
PI N 1,277,243.8771 E 2,202,561.4940

DIRECTION BACK N7° 40' W
RADIUS 100.00'
DELTA 24°46'(LT)
LENGTH 43.23'
TANGENT 21.96'
CHORD DIRECTION N20° 03' W DISTANCE 42.89'
DIRECTION AHEAD N32° 26' W

PT N 1,277,262.4065 E 2,202,549.7167 0+43.23
CURVE (1)

LINE (2)
NON-TANGENT RADIAL BEARING N57° 34' E
N32° 27' W 93.78'
N 1,277,341.5490 E 2,202,499.4087 1+37.00
LINE (2)

CURVE (3)
PC N 1,277,341.5490 E 2,202,499.4087 1+37.00
PI N 1,277,374.7520 E 2,202,478.3027

DIRECTION BACK N32° 27' W
RADIUS 50.00'
DELTA 76°24'(RT)
LENGTH 66.67'
TANGENT 39.34'
CHORD DIRECTION N5° 45' E DISTANCE 61.84'
DIRECTION AHEAD N43° 57' E

PT N 1,277,403.0755 E 2,202,505.6099 2+03.67
CURVE (3)

REVERSING CURVE

NON-TANGENT RADIAL BEARING S46° 03' E
CURVE (4)
PC N 1,277,403.0755 E 2,202,505.6099 2+03.67
PI N 1,277,441.2300 E 2,202,542.3952

DIRECTION BACK N43° 57' E
RADIUS 200.00'
DELTA 29°41'(LT)
LENGTH 103.62'
TANGENT 53.00'
CHORD DIRECTION N29° 07' E DISTANCE 102.46'
DIRECTION AHEAD N14° 16' E

PT N 1,277,492.5942 E 2,202,555.4585 3+07.29
CURVE (4)

REVERSING CURVE

NON-TANGENT RADIAL BEARING N75° 44' W
CURVE (5)
PC N 1,277,492.5942 E 2,202,555.4585 3+07.29
PI N 1,277,503.1448 E 2,202,558.1418

DIRECTION BACK N14° 16' E
RADIUS 200.00'
DELTA 6°14'(RT)
LENGTH 21.75'
TANGENT 10.89'
CHORD DIRECTION N17° 23' E DISTANCE 21.74'
DIRECTION AHEAD N20° 30' E

PT N 1,277,513.3417 E 2,202,561.9544 3+29.04
CURVE (5)

COMPOUND CURVE

NON-TANGENT RADIAL BEARING N69° 30' W
CURVE (6)
PC N 1,277,513.3417 E 2,202,561.9544 3+29.04
PI N 1,277,584.5583 E 2,202,588.5820

DIRECTION BACK N20° 30' E
RADIUS 454.83'
DELTA 18°59'(RT)
LENGTH 150.67'
TANGENT 76.03'
CHORD DIRECTION N29° 59' E DISTANCE 149.98'
DIRECTION AHEAD N39° 29' E

PT N 1,277,643.2425 E 2,202,636.9245 4+79.71
CURVE (6)

REVERSING CURVE

CURVE (7)
PC N 1,277,643.2425 E 2,202,636.9245 4+79.71
PI N 1,277,664.5065 E 2,202,654.4412

DIRECTION BACK N39° 29' E
RADIUS 350.00'
DELTA 9°00'(LT)
LENGTH 54.99'
TANGENT 27.55'
CHORD DIRECTION N34° 59' E DISTANCE 54.93'
DIRECTION AHEAD N30° 29' E

PT N 1,277,688.2494 E 2,202,668.4153 5+34.70
CURVE (7)

LINE (8)
N30° 29' E 87.51'
N 1,277,763.6695 E 2,202,712.8046 6+22.21
LINE (8)

CURVE (9)
PC N 1,277,763.6695 E 2,202,712.8046 6+22.21
PI N 1,277,801.4607 E 2,202,735.0470

DIRECTION BACK N30° 29' E
RADIUS 200.00'
DELTA 24°44'(RT)
LENGTH 86.34'
TANGENT 43.85'
CHORD DIRECTION N42° 51' E DISTANCE 85.67'
DIRECTION AHEAD N55° 13' E

PT N 1,277,826.4791 E 2,202,771.0608 7+08.55
CURVE (9)

REVERSING CURVE

CURVE (10)
PC N 1,277,826.4791 E 2,202,771.0608 7+08.55
PI N 1,277,864.1141 E 2,202,825.2362

DIRECTION BACK N55° 13' E
RADIUS 350.00'
DELTA 21°21'(LT)
LENGTH 130.40'
TANGENT 65.96'
CHORD DIRECTION N44° 32' E DISTANCE 129.65'
DIRECTION AHEAD N33° 52' E

PT N 1,277,918.8877 E 2,202,861.9952 8+38.95
CURVE (10)

LINE (11)
N33° 52' E 96.67'
N 1,277,999.1580 E 2,202,915.8654 9+35.62
LINE (11)

CURVE (12)
PC N 1,277,999.1580 E 2,202,915.8654 9+35.62
PI N 1,278,014.0202 E 2,202,925.8395

DIRECTION BACK N33° 52' E
RADIUS 100.00'
DELTA 20°18'(LT)
LENGTH 35.42'
TANGENT 17.90'
CHORD DIRECTION N23° 43' E DISTANCE 35.24'
DIRECTION AHEAD N13° 34' E

PT N 1,278,031.4194 E 2,202,930.0393 9+71.04
CURVE (12)

REVERSING CURVE

CURVE (13)
PC N 1,278,031.4194 E 2,202,930.0393 9+71.04
PI N 1,278,050.7841 E 2,202,934.7134

DIRECTION BACK N13° 34' E
RADIUS 50.00'
DELTA 43°27'(RT)
LENGTH 37.91'
TANGENT 19.92'
CHORD DIRECTION N35° 18' E DISTANCE 37.01'
DIRECTION AHEAD N57° 01' E

PT N 1,278,061.6289 E 2,202,951.4236 10+08.95
CURVE (13)

REVERSING CURVE

CURVE (14)
PC N 1,278,061.6289 E 2,202,951.4236 10+08.95
PI N 1,278,074.8154 E 2,202,971.7419

DIRECTION BACK N57° 01' E
RADIUS 200.00'
DELTA 13°49'(LT)
LENGTH 48.21'
TANGENT 24.22'
CHORD DIRECTION N50° 07' E DISTANCE 48.09'
DIRECTION AHEAD N43° 12' E

PT N 1,278,092.4711 E 2,202,988.3249 10+57.16
CURVE (14)

LINE (15)
N43° 12' E 141.27'
N 1,278,195.4449 E 2,203,085.0423 11+98.44
LINE (15)

NON-TANGENT RADIAL BEARING S46° 33' E
CURVE (16)
PC N 1,278,195.4449 E 2,203,085.0423 11+98.44
PI N 1,278,220.1516 E 2,203,108.4445

DIRECTION BACK N43° 27' E
RADIUS 100.00'
DELTA 37°35'(LT)
LENGTH 65.60'
TANGENT 34.03'
CHORD DIRECTION N24° 39' E DISTANCE 64.43'
DIRECTION AHEAD N5° 52' E

PT N 1,278,254.0045 E 2,203,111.9185 12+64.04
CURVE (16)

LINE (17)
N5° 52' E 265.51'
N 1,278,518.1265 E 2,203,139.0227 15+29.55
LINE (17)

CURVE (18)
PC N 1,278,518.1265 E 2,203,139.0227 15+29.55
PI N 1,278,537.8983 E 2,203,141.0517

DIRECTION BACK N5° 52' E
RADIUS 50.00'
DELTA 43°21'(RT)
LENGTH 37.84'
TANGENT 19.88'
CHORD DIRECTION N27° 32' E DISTANCE 36.94'
DIRECTION AHEAD N49° 13' E

PT N 1,278,550.8812 E 2,203,156.1011 15+67.38
CURVE (18)

LINE (19)
N49° 13' E 145.38'
N 1,278,645.8463 E 2,203,266.1815 17+12.77
LINE (19)

CURVE (20)
PC N 1,278,645.8463 E 2,203,266.1815 17+12.77
PI N 1,278,650.9486 E 2,203,272.0959

DIRECTION BACK N49° 13' E
RADIUS 400.00'
DELTA 2°14'(LT)
LENGTH 15.62'
TANGENT 7.81'
CHORD DIRECTION N48° 06' E DISTANCE 15.62'
DIRECTION AHEAD N46° 59' E

PT N 1,278,656.2780 E 2,203,277.8067 17+28.39
CURVE (20)

LINE (21)
N46° 59' E 92.19'
N 1,278,719.1735 E 2,203,345.2034 18+20.57
LINE (21)

CURVE (22)
PC N 1,278,719.1735 E 2,203,345.2034 18+20.57
PI N 1,278,727.7936 E 2,203,354.4404

DIRECTION BACK N46° 59' E
RADIUS 100.00'
DELTA 14°24'(LT)
LENGTH 25.14'
TANGENT 12.63'
CHORD DIRECTION N39° 47' E DISTANCE 25.07'
DIRECTION AHEAD N32° 35' E

PT N 1,278,738.4403 E 2,203,361.2431 18+45.71
CURVE (22)

REVERSING CURVE

CURVE (23)
PC N 1,278,738.4403 E 2,203,361.2431 18+45.71
PI N 1,278,759.3341 E 2,203,374.5934

DIRECTION BACK N32° 35' E
RADIUS 200.00'
DELTA 14°08'(RT)
LENGTH 49.34'
TANGENT 24.79'
CHORD DIRECTION N39° 39' E DISTANCE 49.21'
DIRECTION AHEAD N46° 43' E

PT N 1,278,776.3352 E 2,203,392.6416 18+95.05
CURVE (23)

REVERSING CURVE

NON-TANGENT RADIAL BEARING S47° 04' E
CURVE (24)
PC N 1,278,776.3352 E 2,203,392.6416 18+95.05
PI N 1,278,799.9243 E 2,203,414.5851

DIRECTION BACK N42° 56' E
RADIUS 200.00'
DELTA 18°18'(LT)
LENGTH 63.89'
TANGENT 32.22'
CHORD DIRECTION N33° 47' E DISTANCE 63.61'
DIRECTION AHEAD N24° 38' E

PT N 1,278,829.2110 E 2,203,428.0110 19+58.93
CURVE (24)

LINE (25)
NON-TANGENT RADIAL BEARING S65° 22' E
N23° 41' E 45.05'
N 1,278,870.4668 E 2,203,446.1077 20+03.98
LINE (25)

CURVE (26)
PC N 1,278,870.4668 E 2,203,446.1077 20+03.98
PI N 1,278,880.3808 E 2,203,450.4565

DIRECTION BACK N23° 41' E
RADIUS 100.00'
DELTA 12°21'(RT)
LENGTH 21.57'
TANGENT 10.83'
CHORD DIRECTION N29° 52' E DISTANCE 21.53'
DIRECTION AHEAD N36° 03' E
PT N 1,278,889.1343 E 2,203,456.8261 20+25.55
CURVE (26)

REVERSING CURVE

NON-TANGENT RADIAL BEARING S53° 57' E
CURVE (27)
PC N 1,278,889.1343 E 2,203,456.8261 20+25.55
PI N 1,278,917.2217 E 2,203,477.2642

DIRECTION BACK N36° 03' E
RADIUS 200.00'
DELTA 19°42'(LT)
LENGTH 68.79'
TANGENT 34.74'
CHORD DIRECTION N26° 11' E DISTANCE 68.45'
DIRECTION AHEAD N16° 20' E

PT N 1,278,950.5558 E 2,203,487.0345 20+94.34
CURVE (27)

REVERSING CURVE

NON-TANGENT RADIAL BEARING N73° 40' W
CURVE (28)
PC N 1,278,950.5558 E 2,203,487.0345 20+94.34
PI N 1,278,963.8640 E 2,203,490.9352

DIRECTION BACK N16° 20' E
RADIUS 200.00'
DELTA 7°56'(RT)
LENGTH 27.69'
TANGENT 13.87'
CHORD DIRECTION N20° 18' E DISTANCE 27.67'
DIRECTION AHEAD N24° 16' E

PT N 1,278,976.5064 E 2,203,496.6352 21+22.03
CURVE (28)

LINE (29)
N24° 16' E 92.70'
N 1,279,061.0137 E 2,203,534.7369 22+14.73
LINE (29)

CURVE (30)
PC N 1,279,061.0137 E 2,203,534.7369 22+14.73
PI N 1,279,076.3186 E 2,203,541.6374

DIRECTION BACK N24° 16' E
RADIUS 50.00'
DELTA 37°07'(RT)
LENGTH 32.39'
TANGENT 16.79'
CHORD DIRECTION N42° 50' E DISTANCE 31.83'
DIRECTION AHEAD N61° 23' E

PT N 1,279,084.3576 E 2,203,556.3761 22+47.12
CURVE (30)

REVERSING CURVE

CURVE (31)
PC N 1,279,084.3576 E 2,203,556.3761 22+47.12
PI N 1,279,088.2474 E 2,203,563.5077

DIRECTION BACK N61° 23' E
RADIUS 50.00'
DELTA 18°27'(LT)
LENGTH 16.11'
TANGENT 8.12'
CHORD DIRECTION N52° 10' E DISTANCE 16.04'
DIRECTION AHEAD N42° 56' E

PT N 1,279,094.1949 E 2,203,569.0410 22+63.23
CURVE (31)

LINE (32)
N42° 56' E 37.33'
N 1,279,121.5292 E 2,203,594.4718 23+00.56
LINE (32)

CURVE (33)
PC N 1,279,121.5292 E 2,203,594.4718 23+00.56
PI N 1,279,134.3184 E 2,203,606.3704

DIRECTION BACK N42° 56' E
RADIUS 50.00'
DELTA 38°31'(RT)
LENGTH 33.61'
TANGENT 17.47'
CHORD DIRECTION N62° 11' E DISTANCE 32.98'
DIRECTION AHEAD N81° 27' E

PT N 1,279,136.9157 E 2,203,623.6444 23+34.17
CURVE (33)

LINE (34)
N81° 27' E 116.25'
N 1,279,154.2007 E 2,203,738.6041 24+50.43
LINE (34)

CURVE (35)
PC N 1,279,154.2007 E 2,203,738.6041 24+50.43
PI N 1,279,156.9904 E 2,203,757.1582

DIRECTION BACK N81° 27' E
RADIUS 50.00'
DELTA 41°08'(LT)
LENGTH 35.90'
TANGENT 18.76'
CHORD DIRECTION N60° 53' E DISTANCE 35.13'
DIRECTION AHEAD N40° 19' E

PT N 1,279,171.2975 E 2,203,769.2966 24+86.33
CURVE (35)

LINE (36)
N40° 19' E 49.13'
N 1,279,208.7630 E 2,203,801.0829 25+35.46
LINE (36)

CURVE (37)
PC N 1,279,208.7630 E 2,203,801.0829 25+35.46
PI N 1,279,231.9409 E 2,203,820.7474

DIRECTION BACK N40° 19' E
RADIUS 200.00'
DELTA 17°17'(RT)
LENGTH 60.33'
TANGENT 30.40'
CHORD DIRECTION N48° 57' E DISTANCE 60.10'
DIRECTION AHEAD N57° 36' E

PT N 1,279,248.2300 E 2,203,846.4100 25+95.79
CURVE (37)

LINE (38)
NON-TANGENT RADIAL BEARING N32° 24' W
N58° 27' E 326.02'
N 1,279,418.8371 E 2,204,124.2282 29+21.81
LINE (38)

CURVE (39)
PC N 1,279,418.8371 E 2,204,124.2282 29+21.81
PI N 1,279,424.0908 E 2,204,132.7832

DIRECTION BACK N58° 27' E
RADIUS 100.00'
DELTA 11°28'(RT)
LENGTH 20.01'
TANGENT 10.04'
CHORD DIRECTION N64° 11' E DISTANCE 19.98'
DIRECTION AHEAD N69° 55' E

PT N 1,279,427.5390 E 2,204,142.2119 29+41.82
CURVE (39)

REVERSING CURVE

CURVE (40)
PC N 1,279,427.5390 E 2,204,142.2119 29+41.82
PI N 1,279,435.2360 E 2,204,163.2587

DIRECTION BACK N69° 55' E
RADIUS 75.00'
DELTA 33°16'(LT)
LENGTH 43.55'
TANGENT 22.41'
CHORD DIRECTION N53° 17' E DISTANCE 42.94'
DIRECTION AHEAD N36° 38' E

PT N 1,279,453.2179 E 2,204,176.6326 29+85.37
CURVE (40)

REVERSING CURVE

CURVE (41)
PC N 1,279,453.2179 E 2,204,176.6326 29+85.37
PI N 1,279,496.8968 E 2,204,209.1182

DIRECTION BACK N36° 38' E
RADIUS 350.00'
DELTA 17°41'(RT)
LENGTH 108.00'
TANGENT 54.43'
CHORD DIRECTION N45° 29' E DISTANCE 107.58'
DIRECTION AHEAD N54° 19' E

PT N 1,279,528.6462 E 2,204,253.3351 30+93.38
CURVE (41)

REVERSING CURVE

CURVE (42)
PC N 1,279,528.6462 E 2,204,253.3351 30+93.38
PI N 1,279,566.6684 E 2,204,306.2879

DIRECTION BACK N54° 19' E
RADIUS 350.00'
DELTA 21°06'(LT)
LENGTH 128.90'
TANGENT 65.19'
CHORD DIRECTION N43° 46' E DISTANCE 128.17'
DIRECTION AHEAD N33° 13' E

PT N 1,279,621.2051 E 2,204,342.0011 32+22.28
CURVE (42)

REVERSING CURVE

CURVE (43)
PC N 1,279,621.2051 E 2,204,342.0011 32+22.28
PI N 1,279,664.3612 E 2,204,370.2616

DIRECTION BACK N33° 13' E
RADIUS 350.00'
DELTA 16°46'(RT)
LENGTH 102.43'
TANGENT 51.59'
CHORD DIRECTION N41° 36' E DISTANCE 102.07'
DIRECTION AHEAD N49° 59' E

PT N 1,279,697.5287 E 2,204,409.7714 33+24.72
CURVE (43)

REVERSING CURVE

CURVE (44)
PC N 1,279,697.5287 E 2,204,409.7714 33+24.72
PI N 1,279,720.6496 E 2,204,437.3134

DIRECTION BACK N49° 59' E
RADIUS 200.00'
DELTA 20°23'(LT)
LENGTH 71.16'
TANGENT 35.96'
CHORD DIRECTION N39° 48' E DISTANCE 70.79'
DIRECTION AHEAD N29° 36' E

PT N 1,279,751.9163 E 2,204,455.0765 33+95.88
CURVE (44)

REVERSING CURVE

CURVE (45)
PC N 1,279,751.9163 E 2,204,455.0765 33+95.88
PI N 1,279,778.0450 E 2,204,469.9205

DIRECTION BACK N29° 36' E
RADIUS 200.00'
DELTA 17°05'(RT)
LENGTH 59.66'
TANGENT 30.05'
CHORD DIRECTION N38° 09' E DISTANCE 59.43'
DIRECTION AHEAD N46° 41' E

PT N 1,279,798.6576 E 2,204,491.7876 34+55.53
CURVE (45)

REVERSING CURVE

CURVE (46)
PC N 1,279,798.6576 E 2,204,491.7876 34+55.53
PI N 1,279,819.6073 E 2,204,514.0122

DIRECTION BACK N46° 41' E
RADIUS 200.00'
DELTA 17°22'(LT)
LENGTH 60.62'
TANGENT 30.54'
CHORD DIRECTION N38° 01' E DISTANCE 60.38'
DIRECTION AHEAD N29° 20' E

PT N 1,279,846.2352 E 2,204,528.9712 35+16.15
CURVE (46)

REVERSING CURVE

CURVE (47)
PC N 1,279,846.2352 E 2,204,528.9712 35+16.15
PI N 1,279,870.5736 E 2,204,542.6439

DIRECTION BACK N29° 20' E
RADIUS 200.00'
DELTA 15°54'(RT)
LENGTH 55.47'
TANGENT 27.92'
CHORD DIRECTION N37° 16' E DISTANCE 55.30'
DIRECTION AHEAD N45° 13' E

PT N 1,279,890.2378 E 2,204,562.4585 35+71.62
CURVE (47)

LINE (48)
NON-TANGENT RADIAL BEARING N44° 47' W
N44° 25' E 119.64'
N 1,279,975.6934 E 2,204,646.1953 36+91.26
LINE (48)

CURVE (49)
PC N 1,279,975.6934 E 2,204,646.1953 36+91.26
PI N 1,280,017.2253 E 2,204,686.8917

DIRECTION BACK N44° 25' E
RADIUS 200.00'
DELTA 32°25'(RT)
LENGTH 113.17'
TANGENT 58.15'
CHORD DIRECTION N60° 38' E DISTANCE 111.67'
DIRECTION AHEAD N76° 50' E

PT N 1,280,030.4637 E 2,204,743.5118 38+04.44
CURVE (49)

REVERSING CURVE

NON-TANGENT RADIAL BEARING S14° 35' E
CURVE (50)
PC N 1,280,030.4637 E 2,204,743.5118 38+04.44
PI N 1,280,040.3787 E 2,204,781.6311

DIRECTION BACK N75° 25' E
RADIUS 100.00'
DELTA 43°00'(LT)
LENGTH 75.04'
TANGENT 39.39'
CHORD DIRECTION N53° 55' E DISTANCE 73.29'
DIRECTION AHEAD N32° 25' E

PT N 1,280,073.6262 E 2,204,802.7497 38+79.48
CURVE (50)

LINE (51)
N32° 25' E 52.22'
N 1,280,117.7066 E 2,204,830.7493 39+31.70
LINE (51)

CURVE (52)
PC N 1,280,117.7066 E 2,204,830.7493 39+31.70
PI N 1,280,141.4761 E 2,204,845.8475

DIRECTION BACK N32° 25' E
RADIUS 50.00'
DELTA 58°47'(RT)
LENGTH 51.29'
TANGENT 28.16'
CHORD DIRECTION N61° 49' E DISTANCE 49.07'
DIRECTION AHEAD S88° 48' E

PT N 1,280,140.8870 E 2,204,874.0007 39+82.99
CURVE (52)

LINE (53)
NON-TANGENT RADIAL BEARING N1° 12' E
S88° 38' E 22.58'
N 1,280,140.3473 E 2,204,896.5741 40+05.57
LINE (53)

CURVE (54)
PC N 1,280,140.3473 E 2,204,896.5741 40+05.57
PI N 1,280,139.7758 E 2,204,920.4770

DIRECTION BACK S88° 38' E
RADIUS 50.00'
DELTA 51°07'(LT)
LENGTH 44.61'
TANGENT 23.91'
CHORD DIRECTION N65° 49' E DISTANCE 43.14'
DIRECTION AHEAD N40° 15' E

PT N 1,280,158.0228 E 2,204,935.9275 40+50.18
CURVE (54)

LINE (55)
N40° 15' E 40.12'
N 1,280,188.6379 E 2,204,961.8507 40+90.29
LINE (55)

CURVE (56)
PC N 1,280,188.6379 E 2,204,961.8507 40+90.29
PI N 1,280,217.6813 E 2,204,986.4430

DIRECTION BACK N40° 15' E
RADIUS 100.00'
DELTA 41°40'(RT)
LENGTH 72.73'
TANGENT 38.06'
CHORD DIRECTION N61° 05' E DISTANCE 71.14'
DIRECTION AHEAD N81° 56' E

PT N 1,280,223.0262 E 2,205,024.1224 41+63.02
CURVE (56)

LINE (57)
N81° 56' E 48.79'
N 1,280,229.8788 E 2,205,072.4306 42+11.81
LINE (57)

CURVE (58)
PC N 1,280,229.8788 E 2,205,072.4306 42+11.81
PI N 1,280,231.8383 E 2,205,086.2444

DIRECTION BACK N81° 56' E
RADIUS 50.00'
DELTA 31°11'(LT)
LENGTH 27.21'
TANGENT 13.95'
CHORD DIRECTION N66° 20' E DISTANCE 26.88'
DIRECTION AHEAD N50° 45' E

PT N 1,280,240.6670 E 2,205,097.0478 42+39.03
CURVE (58)

LINE (59)
NON-TANGENT RADIAL BEARING S39° 15' E
N48° 51' E 82.54'
N 1,280,294.9843 E 2,205,159.1983 43+21.57
LINE (59)

NON-TANGENT RADIAL BEARING N35° 13' W
CURVE (60)
PC N 1,280,294.9843 E 2,205,159.1983 43+21.57
PI N 1,280,304.9248 E 2,205,173.2833

DIRECTION BACK N54° 47' E
RADIUS 75.00'
DELTA 25°53'(RT)
LENGTH 33.89'
TANGENT 17.24'
CHORD DIRECTION N67° 44' E DISTANCE 33.60'
DIRECTION AHEAD N80° 41' E

PT N 1,280,307.7174 E 2,205,190.2952 43+55.46
CURVE (60)

LINE (61)
NON-TANGENT RADIAL BEARING N9° 19' W
N84° 11' E 27.43'
N 1,280,310.4975 E 2,205,217.5873 43+82.89
LINE (61)

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SUBMITTAL:
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NO.	DATE:	DESCRIPTION:

PROJPTT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHPTKED BY:	MOK

SCALE:
NOT TO SCALE

SHEET TITLE:
GEOMETRIC LAYOUT DATA

SHEET NUMBER:
C0.03

CURVE (62)
PC N 1,280,310.4975 E 2,205,217.5873 43+82.89
PI N 1,280,312.4757 E 2,205,237.0064

DIRECTION BACK N84° 11' E
RADIUS 45.00'
DELTA 46°54'(LT)
LENGTH 36.83'
TANGENT 19.52'
CHORD DIRECTION N60° 44' E DISTANCE 35.81'
DIRECTION AHEAD N37° 17' E

PT N 1,280,328.0062 E 2,205,248.8307 44+19.73
CURVE (62)

LINE (63)
N37° 17' E 87.58'
N 1,280,397.6887 E 2,205,301.8846 45+07.31
LINE (63)

NON-TANGENT RADIAL BEARING N51° 51' W
CURVE (64)
PC N 1,280,397.6887 E 2,205,301.8846 45+07.31
PI N 1,280,417.4218 E 2,205,317.3811

DIRECTION BACK N38° 09' E
RADIUS 50.00'
DELTA 53°18'(RT)
LENGTH 46.51'
TANGENT 25.09'
CHORD DIRECTION N64° 47' E DISTANCE 44.85'
DIRECTION AHEAD S88° 34' E

PT N 1,280,416.7917 E 2,205,342.4638 45+53.82
CURVE (64)

LINE (65)
S88° 34' E 83.77'
N 1,280,414.6882 E 2,205,426.2058 46+37.58
LINE (65)

NON-TANGENT RADIAL BEARING S1° 07' W
CURVE (66)
PC N 1,280,414.6882 E 2,205,426.2058 46+37.58
PI N 1,280,414.3447 E 2,205,443.7541

DIRECTION BACK S88° 53' E
RADIUS 55.00'
DELTA 35°24'(LT)
LENGTH 33.98'
TANGENT 17.55'
CHORD DIRECTION N73° 25' E DISTANCE 33.44'
DIRECTION AHEAD N55° 43' E

PT N 1,280,424.2295 E 2,205,458.2575 46+71.56
CURVE (66)

LINE (67)
NON-TANGENT RADIAL BEARING S34° 17' E
N54° 45' E 77.32'
N 1,280,468.8528 E 2,205,521.4008 47+48.88
LINE (67)

CURVE (68)
PC N 1,280,468.8528 E 2,205,521.4008 47+48.88
PI N 1,280,489.1453 E 2,205,550.1155

DIRECTION BACK N54° 45' E
RADIUS 200.00'
DELTA 19°57'(LT)
LENGTH 69.61'
TANGENT 35.16'
CHORD DIRECTION N44° 47' E DISTANCE 69.26'
DIRECTION AHEAD N34° 49' E

PT N 1,280,518.0148 E 2,205,570.1871 48+18.49
CURVE (68)

REVERSING CURVE

CURVE (69)
PC N 1,280,518.0148 E 2,205,570.1871 48+18.49
PI N 1,280,533.7671 E 2,205,581.1390

DIRECTION BACK N34° 49' E
RADIUS 100.00'
DELTA 21°43'(RT)
LENGTH 37.91'
TANGENT 19.19'
CHORD DIRECTION N45° 40' E DISTANCE 37.68'
DIRECTION AHEAD N56° 32' E

PT N 1,280,544.3479 E 2,205,597.1429 48+56.40
CURVE (69)

REVERSING CURVE

CURVE (70)
PC N 1,280,544.3479 E 2,205,597.1429 48+56.40
PI N 1,280,572.5820 E 2,205,639.8486

DIRECTION BACK N56° 32' E
RADIUS 115.00'
DELTA 48°00'(LT)
LENGTH 96.33'
TANGENT 51.20'
CHORD DIRECTION N32° 32' E DISTANCE 93.54'
DIRECTION AHEAD N8° 32' E

PT N 1,280,623.2100 E 2,205,647.4468 49+52.74
CURVE (70)

LINE (71)
NON-TANGENT RADIAL BEARING S81° 28' E
N7° 25' E 41.51'
N 1,280,664.3774 E 2,205,652.8067 49+94.25
LINE (71)

CURVE (72)
PC N 1,280,664.3774 E 2,205,652.8067 49+94.25
PI N 1,280,695.8410 E 2,205,656.9032

DIRECTION BACK N7° 25' E
RADIUS 100.00'
DELTA 35°12'(RT)
LENGTH 61.45'
TANGENT 31.73'
CHORD DIRECTION N25° 01' E DISTANCE 60.49'
DIRECTION AHEAD N42° 38' E

PT N 1,280,719.1871 E 2,205,678.3903 50+55.70
CURVE (72)

COMPOUND CURVE

CURVE (73)
PC N 1,280,719.1871 E 2,205,678.3903 50+55.70
PI N 1,280,732.4109 E 2,205,690.5612

DIRECTION BACK N42° 38' E
RADIUS 75.00'
DELTA 26°57'(RT)
LENGTH 35.28'
TANGENT 17.97'
CHORD DIRECTION N56° 06' E DISTANCE 34.95'
DIRECTION AHEAD N69° 35' E

PT N 1,280,738.6823 E 2,205,707.4037 50+90.98
CURVE (73)

LINE (74)
N69° 35' E 64.23'
N 1,280,761.0939 E 2,205,767.5923 51+55.21
LINE (74)

CURVE (75)
PC N 1,280,761.0939 E 2,205,767.5923 51+55.21
PI N 1,280,775.1013 E 2,205,805.2107

DIRECTION BACK N69° 35' E
RADIUS 200.00'
DELTA 22°42'(RT)
LENGTH 79.23'
TANGENT 40.14'
CHORD DIRECTION N80° 56' E DISTANCE 78.71'
DIRECTION AHEAD S87° 44' E

PT N 1,280,773.5079 E 2,205,845.3208 52+34.44
CURVE (75)

REVERSING CURVE

CURVE (76)
PC N 1,280,773.5079 E 2,205,845.3208 52+34.44
PI N 1,280,772.3861 E 2,205,873.5609

DIRECTION BACK S87° 44' E
RADIUS 60.00'
DELTA 50°27'(LT)
LENGTH 52.83'
TANGENT 28.26'
CHORD DIRECTION N67° 03' E DISTANCE 51.14'
DIRECTION AHEAD N41° 50' E

PT N 1,280,793.4452 E 2,205,892.4099 52+87.26
CURVE (76)

REVERSING CURVE

CURVE (77)
PC N 1,280,793.4452 E 2,205,892.4099 52+87.26
PI N 1,280,835.5834 E 2,205,930.1257

DIRECTION BACK N41° 50' E
RADIUS 400.00'
DELTA 16°06'(RT)
LENGTH 112.36'
TANGENT 56.55'
CHORD DIRECTION N49° 53' E DISTANCE 111.99'
DIRECTION AHEAD N57° 55' E

PT N 1,280,865.6146 E 2,205,978.0448 53+99.62
CURVE (77)

REVERSING CURVE

CURVE (78)
PC N 1,280,865.6146 E 2,205,978.0448 53+99.62
PI N 1,280,898.6188 E 2,206,030.7077

DIRECTION BACK N57° 55' E
RADIUS 400.00'
DELTA 17°40'(LT)
LENGTH 123.31'
TANGENT 62.15'
CHORD DIRECTION N49° 06' E DISTANCE 122.83'
DIRECTION AHEAD N40° 16' E

PT N 1,280,946.0463 E 2,206,070.8735 55+22.94
CURVE (78)

REVERSING CURVE

CURVE (79)
PC N 1,280,946.0463 E 2,206,070.8735 55+22.94
PI N 1,280,989.9116 E 2,206,108.0224

DIRECTION BACK N40° 16' E
RADIUS 400.00'
DELTA 16°21'(RT)
LENGTH 114.18'
TANGENT 57.48'
CHORD DIRECTION N48° 26' E DISTANCE 113.80'
DIRECTION AHEAD N56° 37' E

PT N 1,281,021.5407 E 2,206,156.0204 56+37.12
CURVE (79)

REVERSING CURVE

CURVE (80)
PC N 1,281,021.5407 E 2,206,156.0204 56+37.12
PI N 1,281,049.2898 E 2,206,198.1301

DIRECTION BACK N56° 37' E
RADIUS 400.00'
DELTA 14°22'(LT)
LENGTH 100.33'
TANGENT 50.43'
CHORD DIRECTION N49° 26' E DISTANCE 100.07'
DIRECTION AHEAD N42° 15' E

PT N 1,281,086.6224 E 2,206,232.0346 57+37.45
CURVE (80)

REVERSING CURVE

CURVE (81)
PC N 1,281,086.6224 E 2,206,232.0346 57+37.45
PI N 1,281,144.8665 E 2,206,284.9303

DIRECTION BACK N42° 15' E
RADIUS 600.00'
DELTA 14°56'(RT)
LENGTH 156.46'
TANGENT 78.68'
CHORD DIRECTION N49° 43' E DISTANCE 156.02'
DIRECTION AHEAD N57° 11' E

PT N 1,281,187.5034 E 2,206,351.0547 58+93.91
CURVE (81)

REVERSING CURVE

CURVE (82)
PC N 1,281,187.5034 E 2,206,351.0547 58+93.91
PI N 1,281,207.0905 E 2,206,381.4318

DIRECTION BACK N57° 11' E
RADIUS 400.00'
DELTA 10°20'(LT)
LENGTH 72.09'
TANGENT 36.14'
CHORD DIRECTION N52° 01' E DISTANCE 72.00'
DIRECTION AHEAD N46° 52' E

PT N 1,281,231.8057 E 2,206,407.8057 59+66.01
CURVE (82)

REVERSING CURVE

CURVE (83)
PC N 1,281,231.8057 E 2,206,407.8057 59+66.01
PI N 1,281,256.6236 E 2,206,434.2892

DIRECTION BACK N46° 52' E
RADIUS 400.00'
DELTA 10°22'(RT)
LENGTH 72.39'
TANGENT 36.29'
CHORD DIRECTION N52° 03' E DISTANCE 72.29'
DIRECTION AHEAD N57° 14' E

PT N 1,281,276.2694 E 2,206,464.8073 60+38.40
CURVE (83)

REVERSING CURVE

CURVE (84)
PC N 1,281,276.2694 E 2,206,464.8073 60+38.40
PI N 1,281,301.7976 E 2,206,504.4631

DIRECTION BACK N57° 14' E
RADIUS 400.00'
DELTA 13°27'(LT)
LENGTH 93.89'
TANGENT 47.16'
CHORD DIRECTION N50° 30' E DISTANCE 93.68'
DIRECTION AHEAD N43° 47' E

PT N 1,281,335.8489 E 2,206,537.0942 61+32.29
CURVE (84)

LINE (85)
NON-TANGENT RADIAL BEARING S46° 13' E
N41° 59' E 52.79'
N 1,281,375.0864 E 2,206,572.4050 61+85.08
LINE (85)

CURVE (86)
PC N 1,281,375.0864 E 2,206,572.4050 61+85.08
PI N 1,281,450.9548 E 2,206,640.6808

DIRECTION BACK N41° 59' E
RADIUS 400.00'
DELTA 28°38'(RT)
LENGTH 199.87'
TANGENT 102.07'
CHORD DIRECTION N56° 18' E DISTANCE 197.80'
DIRECTION AHEAD N70° 37' E

PT N 1,281,484.8341 E 2,206,736.9605 63+84.94
CURVE (86)

REVERSING CURVE

CURVE (87)
PC N 1,281,484.8341 E 2,206,736.9605 63+84.94
PI N 1,281,504.7113 E 2,206,793.4485

DIRECTION BACK N70° 37' E
RADIUS 300.00'
DELTA 22°35'(LT)
LENGTH 118.21'
TANGENT 59.88'
CHORD DIRECTION N59° 20' E DISTANCE 117.45'
DIRECTION AHEAD N48° 02' E

PT N 1,281,544.7524 E 2,206,837.9761 65+03.16
CURVE (87)

REVERSING CURVE

CURVE (88)
PC N 1,281,544.7524 E 2,206,837.9761 65+03.16
PI N 1,281,592.6806 E 2,206,891.2747

DIRECTION BACK N48° 02' E
RADIUS 300.00'
DELTA 26°53'(RT)
LENGTH 140.72'
TANGENT 71.68'
CHORD DIRECTION N61° 28' E DISTANCE 139.43'
DIRECTION AHEAD N74° 55' E

PT N 1,281,611.3384 E 2,206,960.4827 66+43.88
CURVE (88)

REVERSING CURVE

CURVE (89)
PC N 1,281,611.3384 E 2,206,960.4827 66+43.88
PI N 1,281,629.3829 E 2,207,027.4158

DIRECTION BACK N74° 55' E
RADIUS 400.00'
DELTA 19°40'(LT)
LENGTH 137.28'
TANGENT 69.32'
CHORD DIRECTION N65° 05' E DISTANCE 136.61'
DIRECTION AHEAD N55° 15' E

PT N 1,281,668.8985 E 2,207,084.3734 67+81.16
CURVE (89)

REVERSING CURVE

CURVE (90)
PC N 1,281,668.8985 E 2,207,084.3734 67+81.16
PI N 1,281,677.8232 E 2,207,097.2373

DIRECTION BACK N55° 15' E
RADIUS 200.00'
DELTA 8°57'(RT)
LENGTH 31.25'
TANGENT 15.66'
CHORD DIRECTION N59° 43' E DISTANCE 31.22'
DIRECTION AHEAD N64° 12' E

PT N 1,281,684.6373 E 2,207,111.3333 68+12.41
CURVE (90)

LINE (91)
N64° 12' E 42.96'
N 1,281,703.3366 E 2,207,150.0155 68+55.37
LINE (91)

N 1,281,703.3366 E 2,207,150.0155 68+55.37
END TRAIL CENTERLINE

****
ALIGNMENT LENGTH: 6,855.37'
****

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OWNER:

SEAL:

CONSTRUCTION PLANS FOR:

SHADES CREEK GREENWAY

ProjPTT No. 240305
BIRMINGHAM, AL

SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

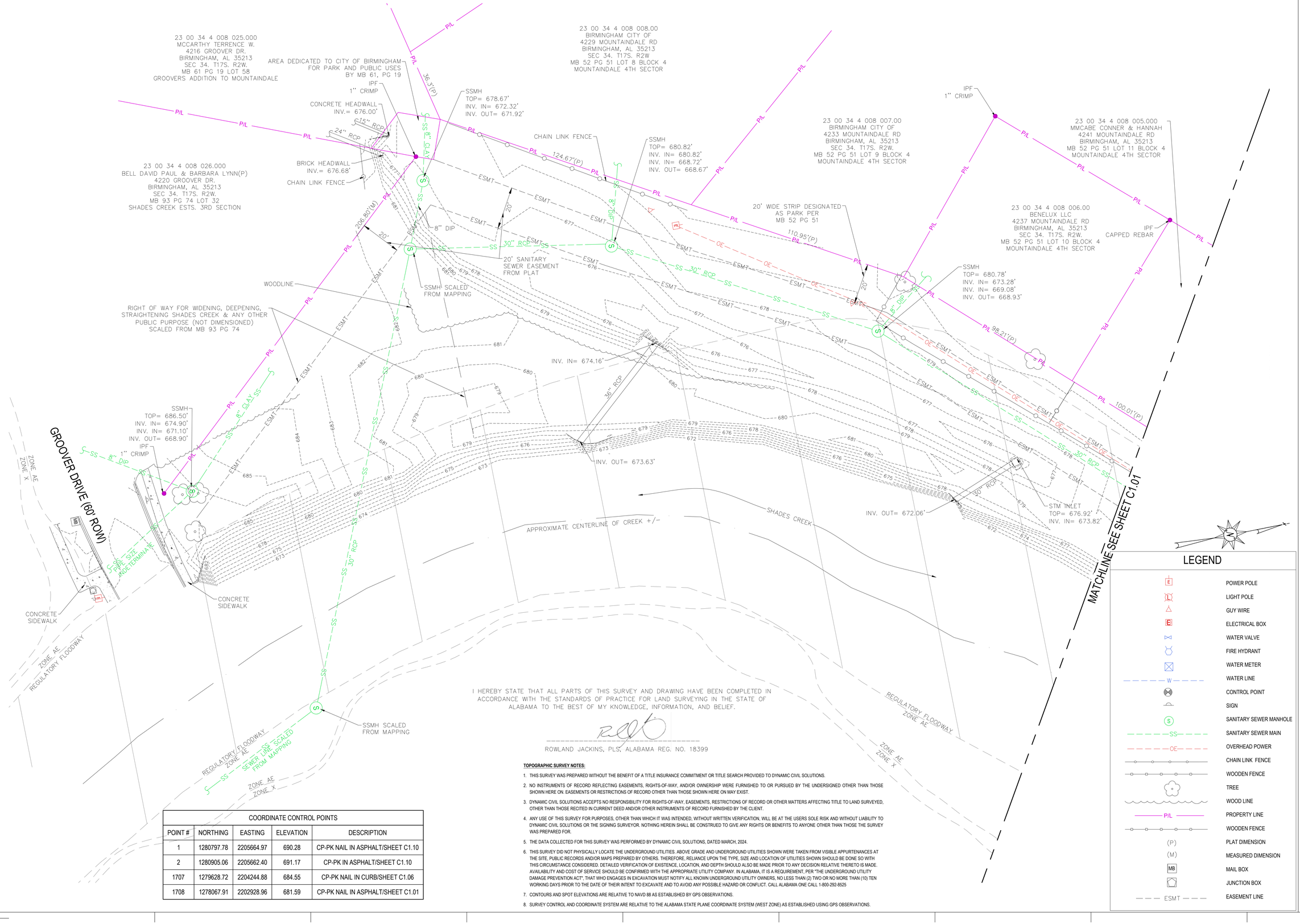
NO.	DATE:	DESCRIPTION:

PROJPTT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHPTKED BY:	MOK

SCALE:
NOT TO SCALE

SHEET TITLE:
GEOMETRIC LAYOUT DATA

SHEET NUMBER:
C0.04



COORDINATE CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1280797.78	2205664.97	690.28	CP-PK NAIL IN ASPHALT/SHEET C1.10
2	1280905.06	2205662.40	691.17	CP-PK IN ASPHALT/SHEET C1.10
1707	1279628.72	2204244.88	684.55	CP-PK NAIL IN CURB/SHEET C1.06
1708	1278067.91	2202928.96	681.59	CP-PK NAIL IN ASPHALT/SHEET C1.01

I HEREBY STATE THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF.

ROWLAND JACKINS, PLS, ALABAMA REG. NO. 18399

TOPOGRAPHIC SURVEY NOTES:

1. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE INSURANCE COMMITMENT OR TITLE SEARCH PROVIDED TO DYNAMIC CIVIL SOLUTIONS.
2. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY, AND/OR OWNERSHIP WERE FURNISHED TO OR PURSUED BY THE UNDERSIGNED OTHER THAN THOSE SHOWN HERE ON. EASEMENTS OR RESTRICTIONS OF RECORD OTHER THAN THOSE SHOWN HERE ON MAY EXIST.
3. DYNAMIC CIVIL SOLUTIONS ACCEPTS NO RESPONSIBILITY FOR RIGHTS-OF-WAY, EASEMENTS, RESTRICTIONS OF RECORD OR OTHER MATTERS AFFECTING TITLE TO LAND SURVEYED, OTHER THAN THOSE RECITED IN CURRENT DEED AND/OR OTHER INSTRUMENTS OF RECORD FURNISHED BY THE CLIENT.
4. ANY USE OF THIS SURVEY FOR PURPOSES, OTHER THAN WHICH IT WAS INTENDED, WITHOUT WRITTEN VERIFICATION, WILL BE AT THE USERS SOLE RISK AND WITHOUT LIABILITY TO DYNAMIC CIVIL SOLUTIONS OR THE SIGNING SURVEYOR. NOTHING HEREIN SHALL BE CONSTRUED TO GIVE ANY RIGHTS OR BENEFITS TO ANYONE OTHER THAN THOSE THE SURVEY WAS PREPARED FOR.
5. THE DATA COLLECTED FOR THIS SURVEY WAS PERFORMED BY DYNAMIC CIVIL SOLUTIONS, DATED MARCH, 2024.
6. THIS SURVEY DID NOT PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS AND/OR MAPS PREPARED BY OTHERS. THEREFORE, RELIANCE UPON THE TYPE, SIZE AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION, AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY. IN ALABAMA, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN (2) TWO OR NO MORE THAN (10) TEN WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. CALL ALABAMA ONE CALL 1-800-292-8525
7. CONTOURS AND SPOT ELEVATIONS ARE RELATIVE TO NAVD 88 AS ESTABLISHED BY GPS OBSERVATIONS.
8. SURVEY CONTROL AND COORDINATE SYSTEM ARE RELATIVE TO THE ALABAMA STATE PLANE COORDINATE SYSTEM (WEST ZONE) AS ESTABLISHED USING GPS OBSERVATIONS.

LEGEND

- POWER POLE
- LIGHT POLE
- GUY WIRE
- ELECTRICAL BOX
- WATER VALVE
- FIRE HYDRANT
- WATER METER
- WATER LINE
- CONTROL POINT
- SIGN
- SANITARY SEWER MANHOLE
- SANITARY SEWER MAIN
- OVERHEAD POWER
- CHAIN LINK FENCE
- WOODEN FENCE
- TREE
- WOOD LINE
- PROPERTY LINE
- WOODEN FENCE
- PLAT DIMENSION
- MEASURED DIMENSION
- MAIL BOX
- JUNCTION BOX
- EASEMENT LINE

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SHADES CREEK GREENWAY

Project No. 240305
BIRMINGHAM, AL

SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

NO.	DATE:	DESCRIPTION:

PROJECT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	HTC
CHECKED BY:	MOK

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(1 IN = 20 FT)

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EXISTING CONDITIONS SURVEY

SHEET NUMBER:
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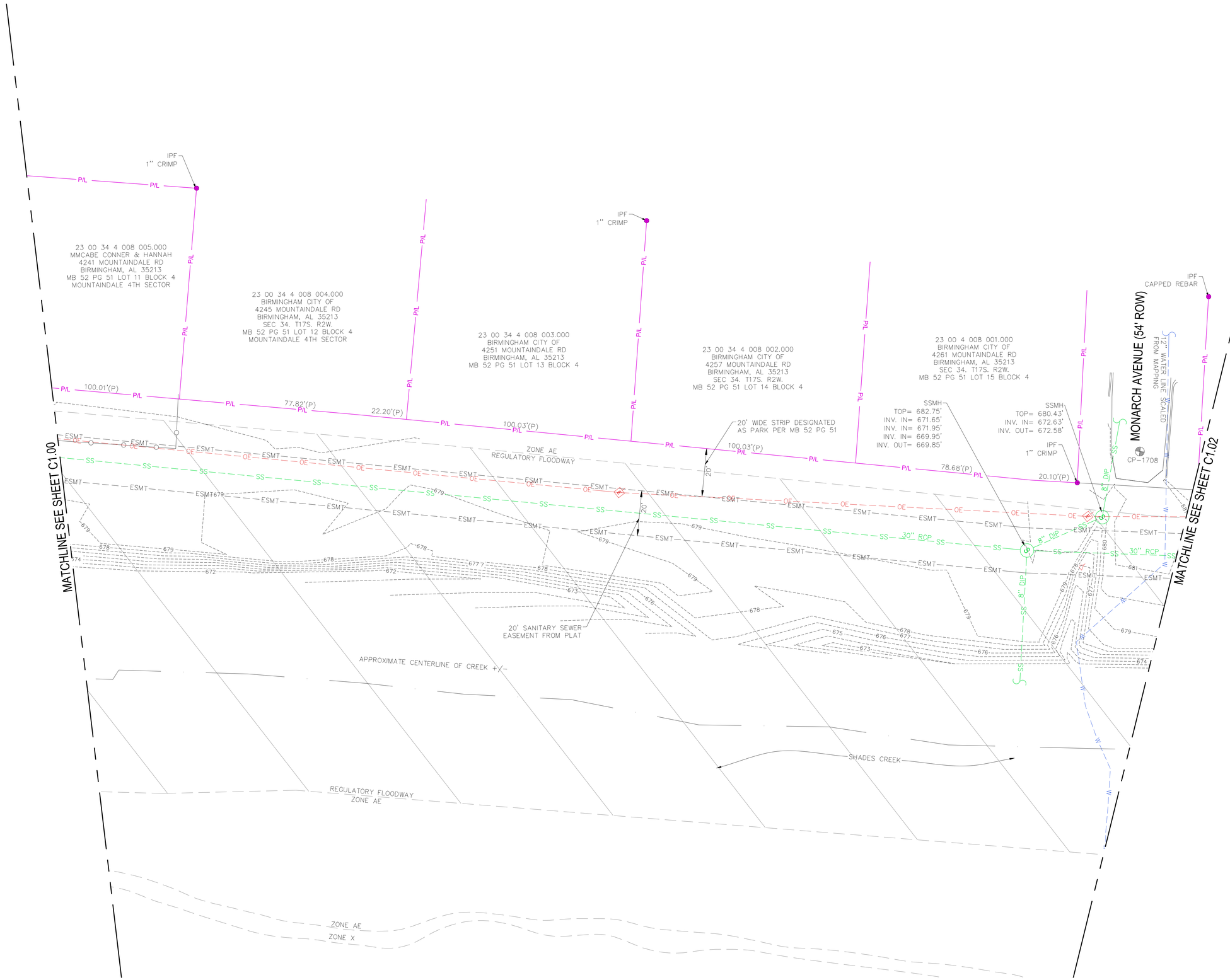

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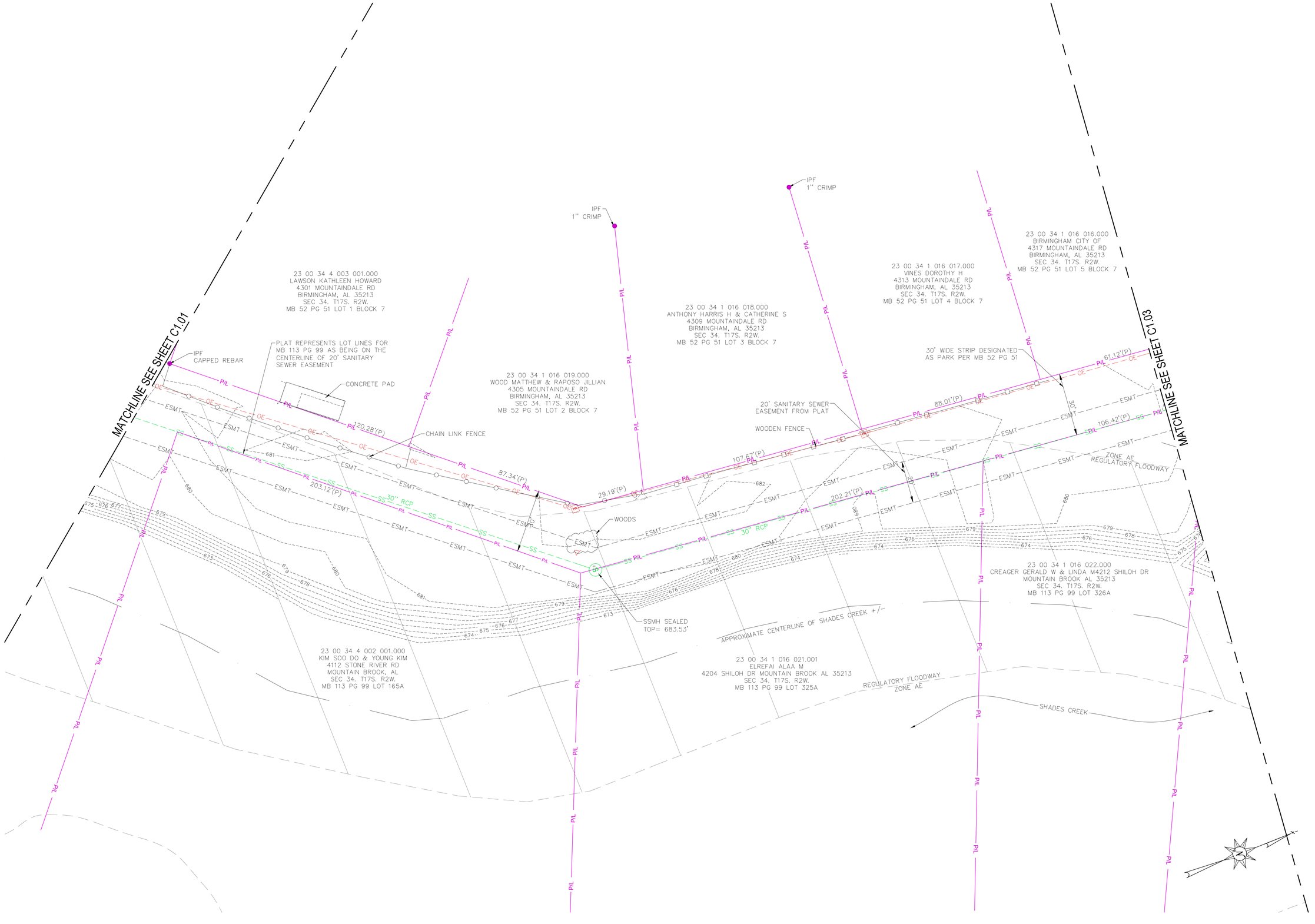

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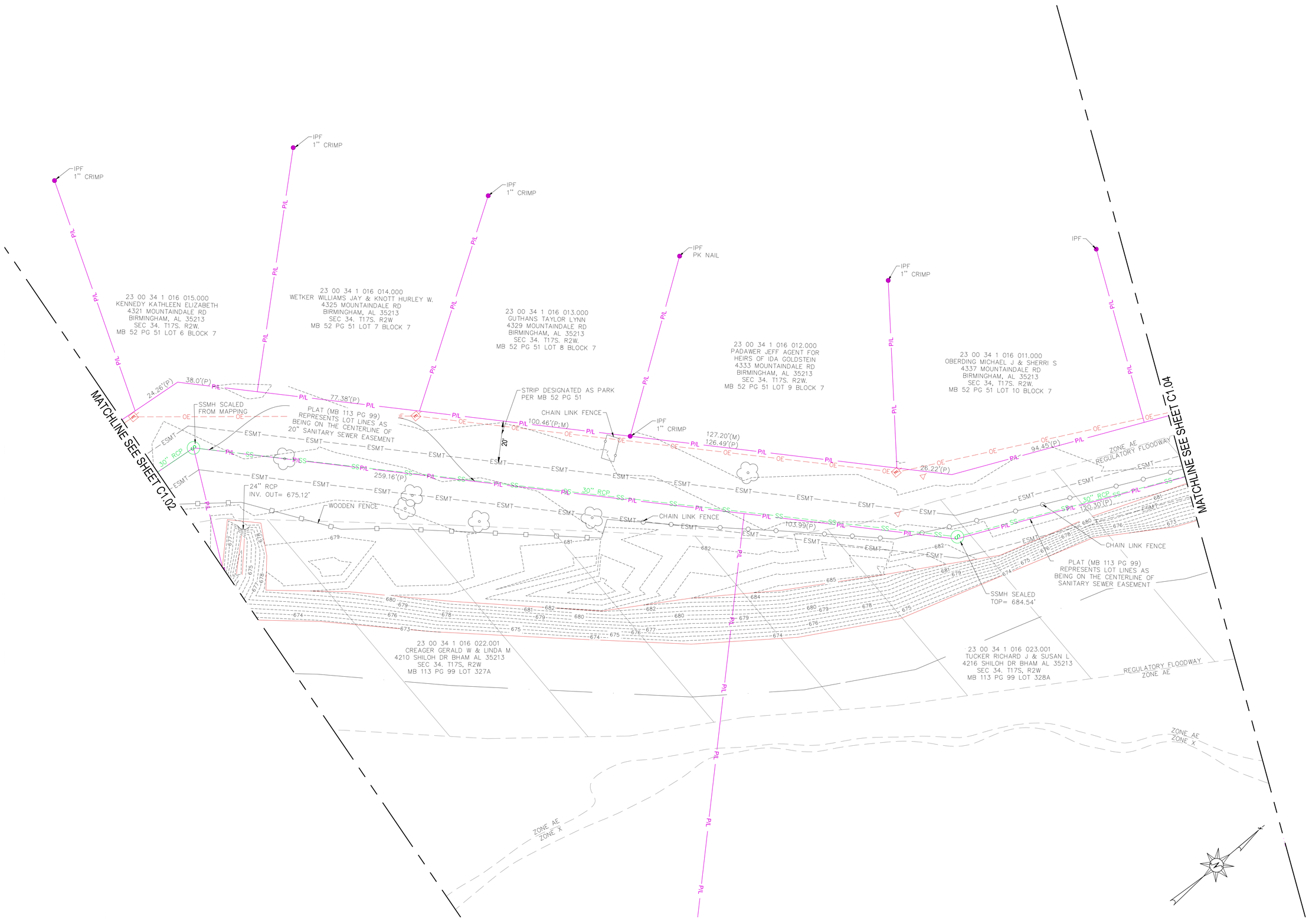

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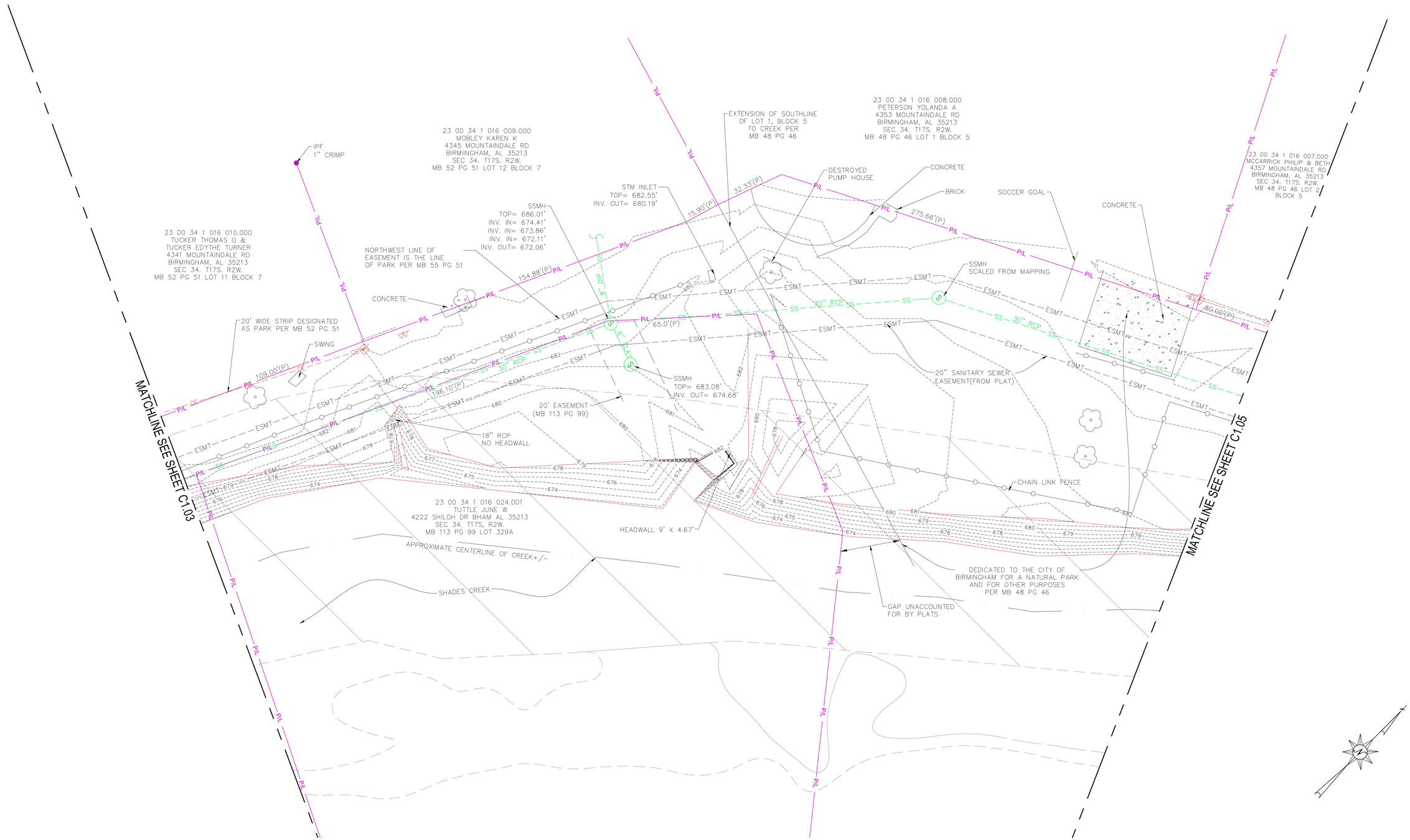

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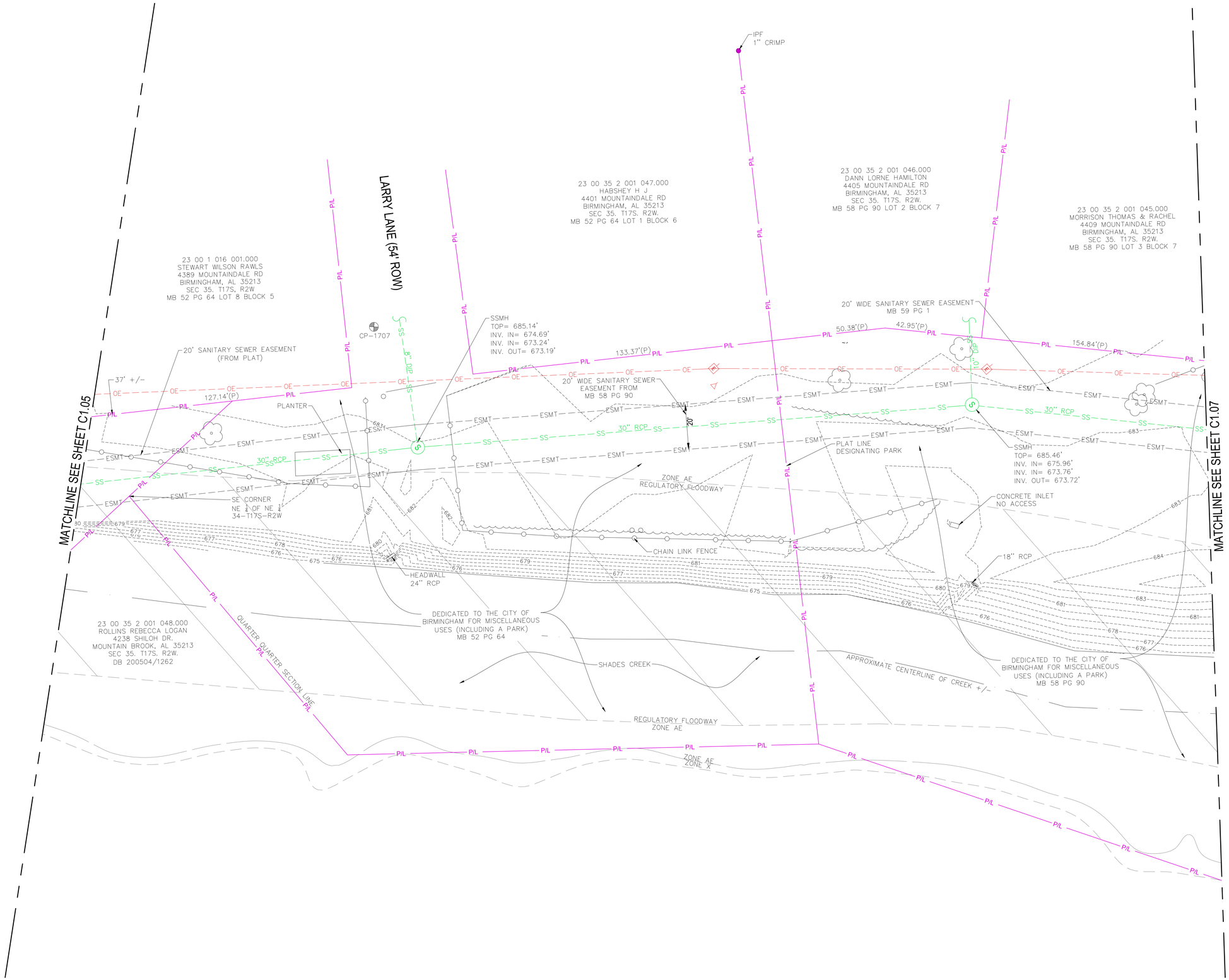

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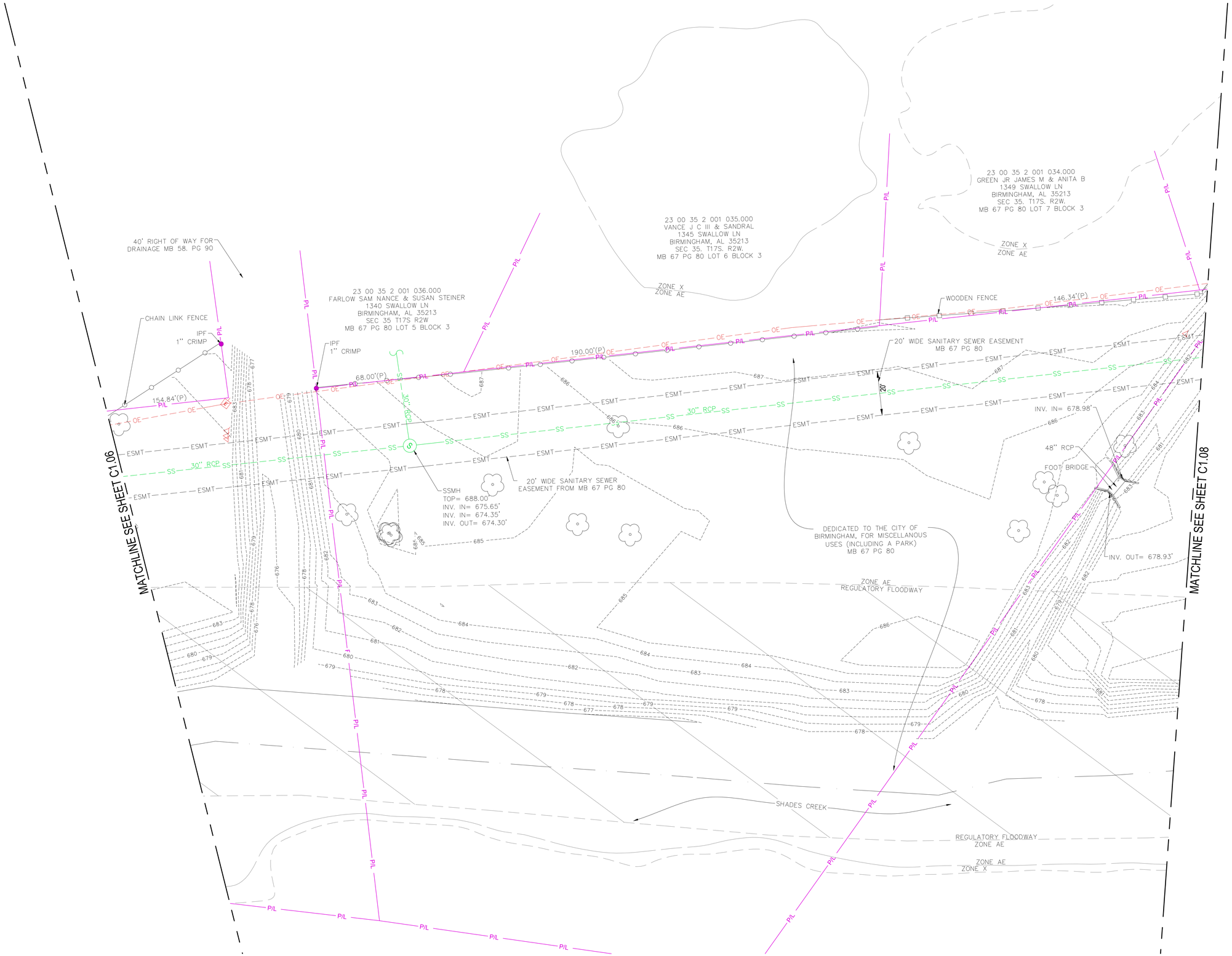

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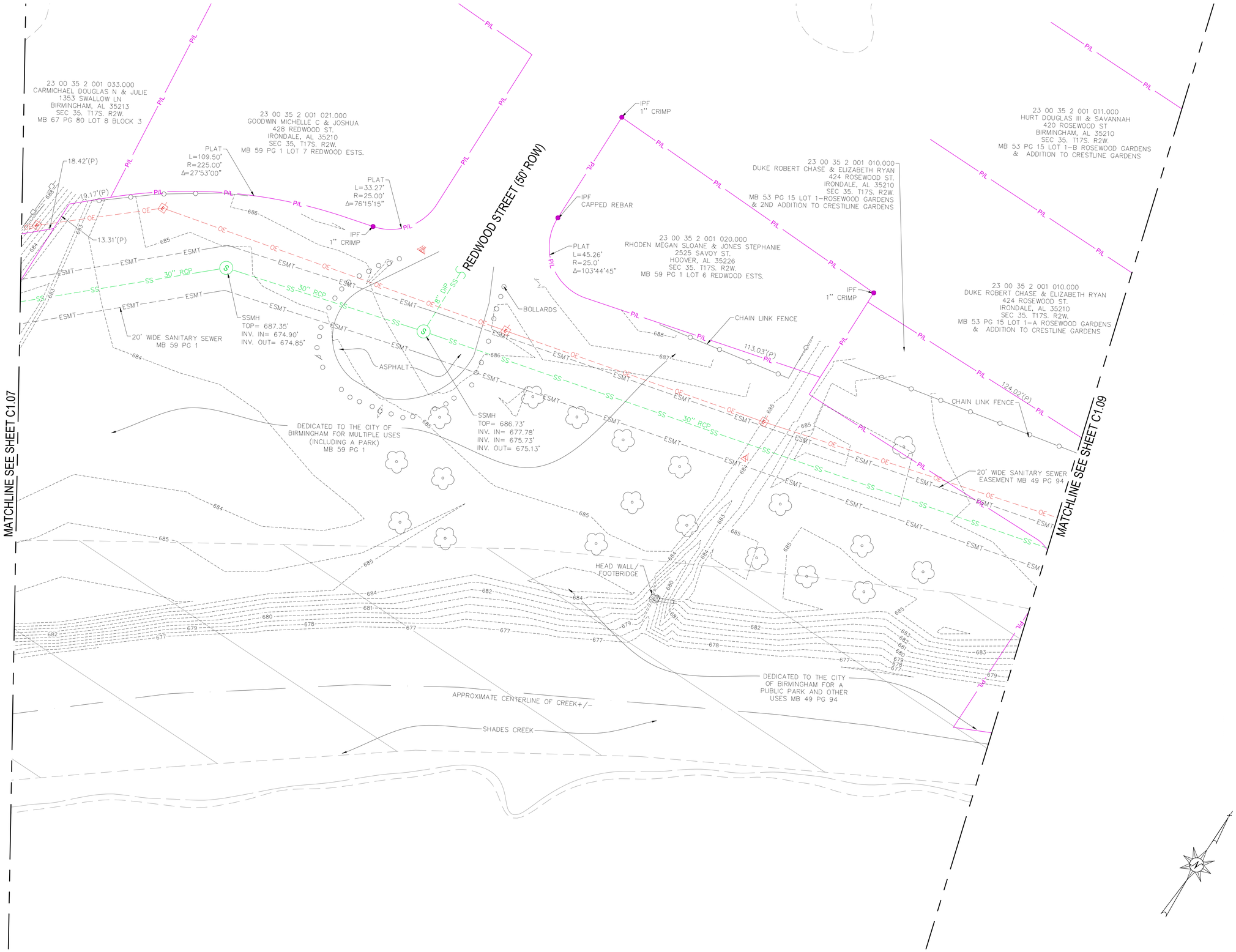

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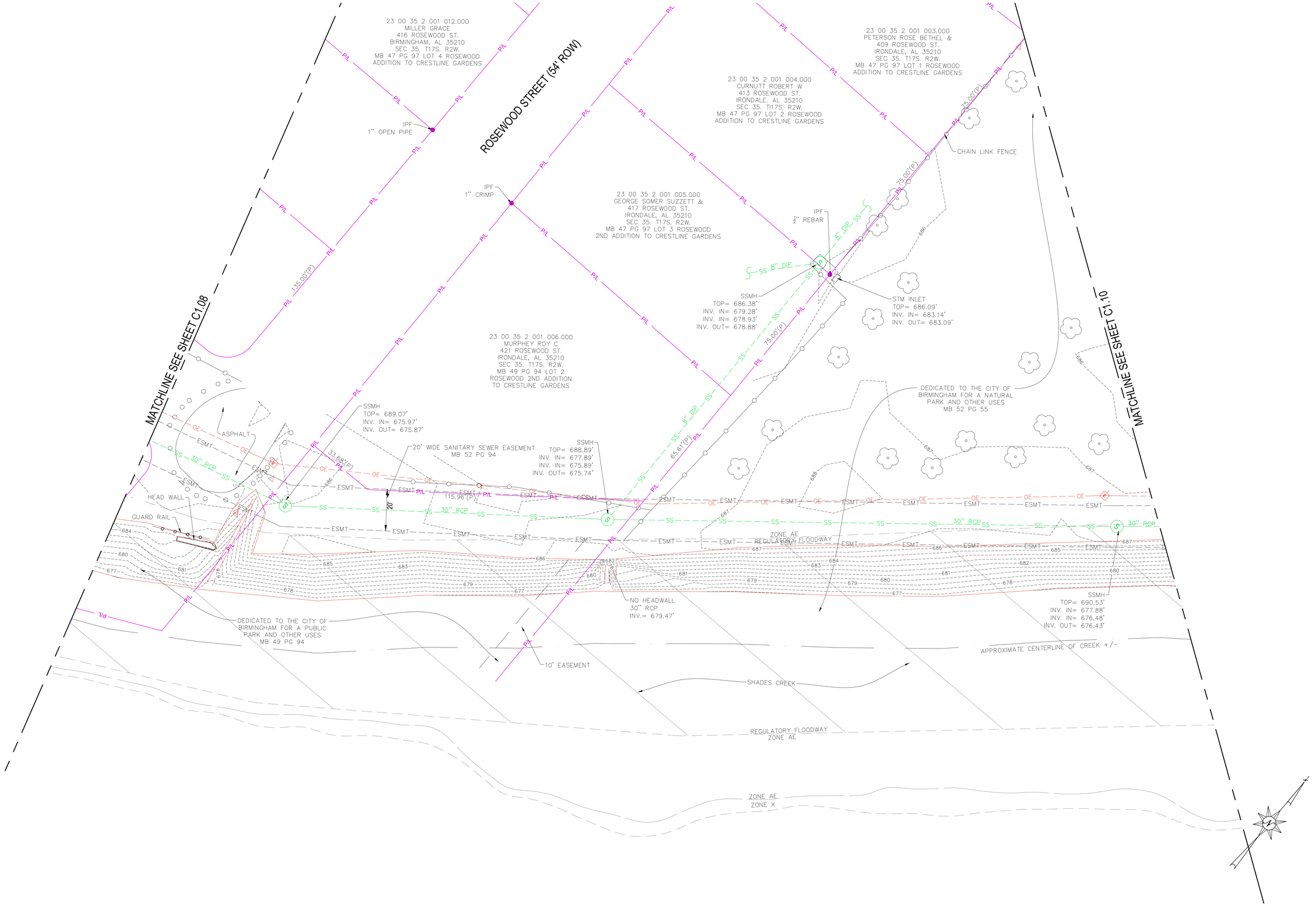

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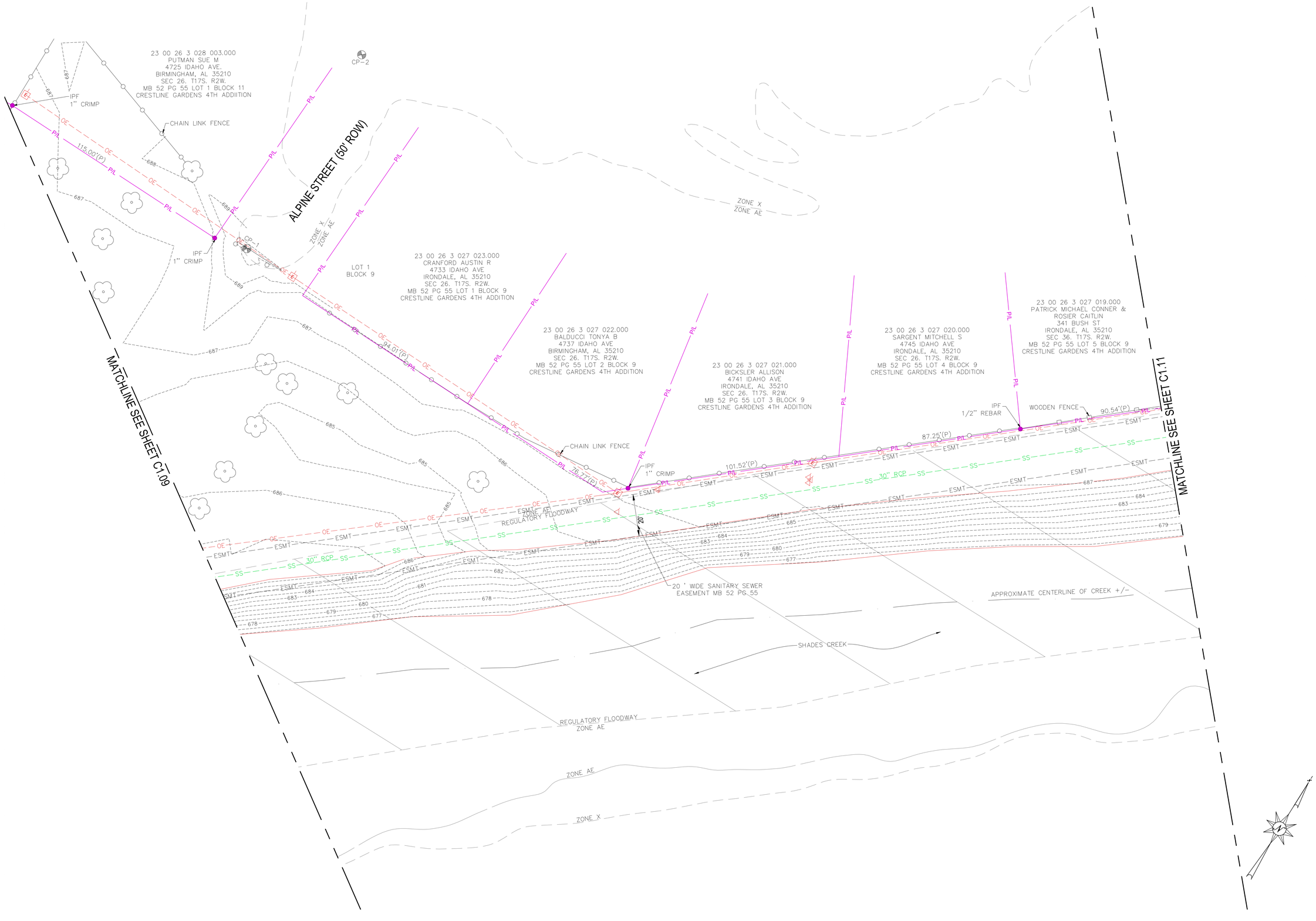

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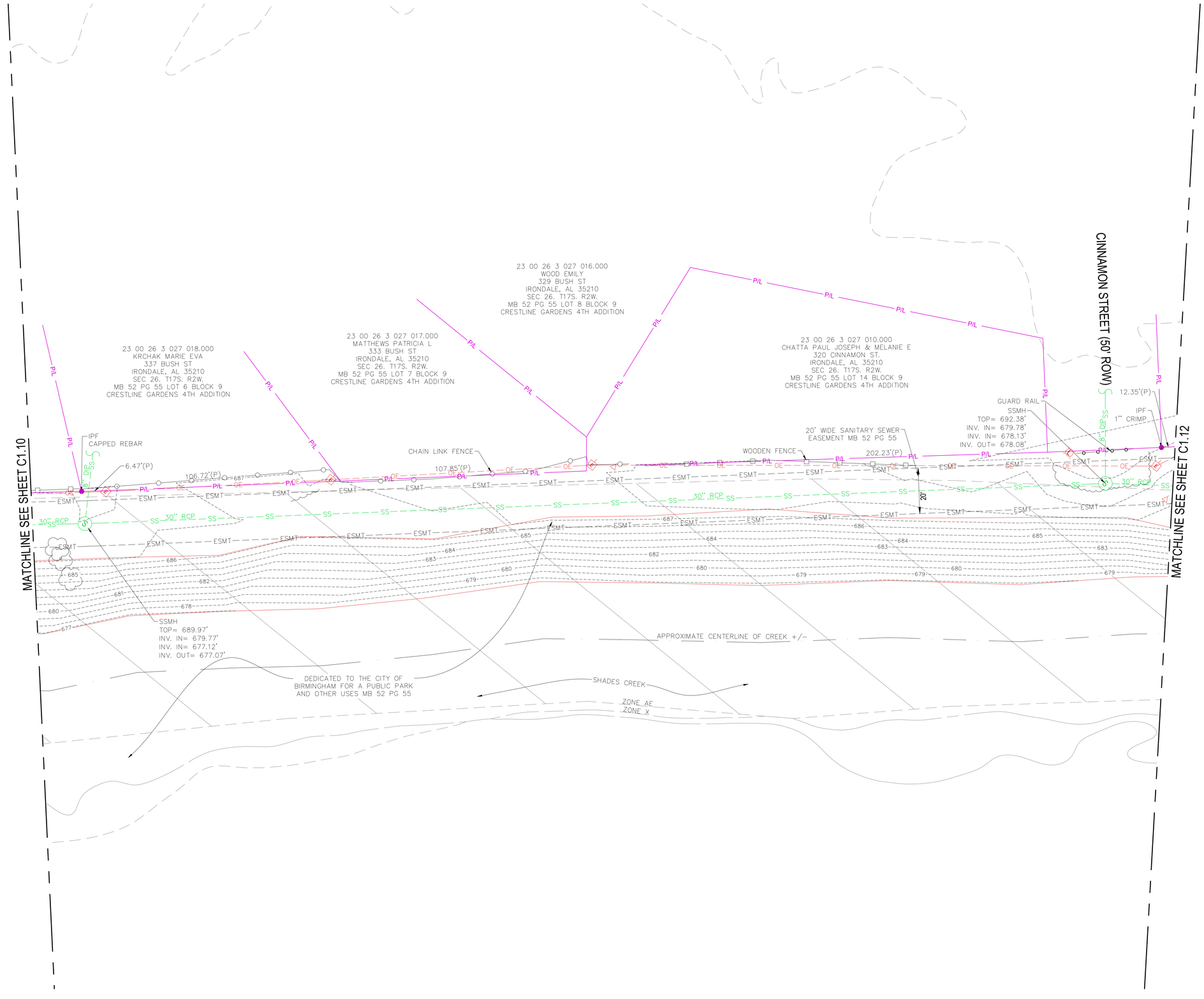

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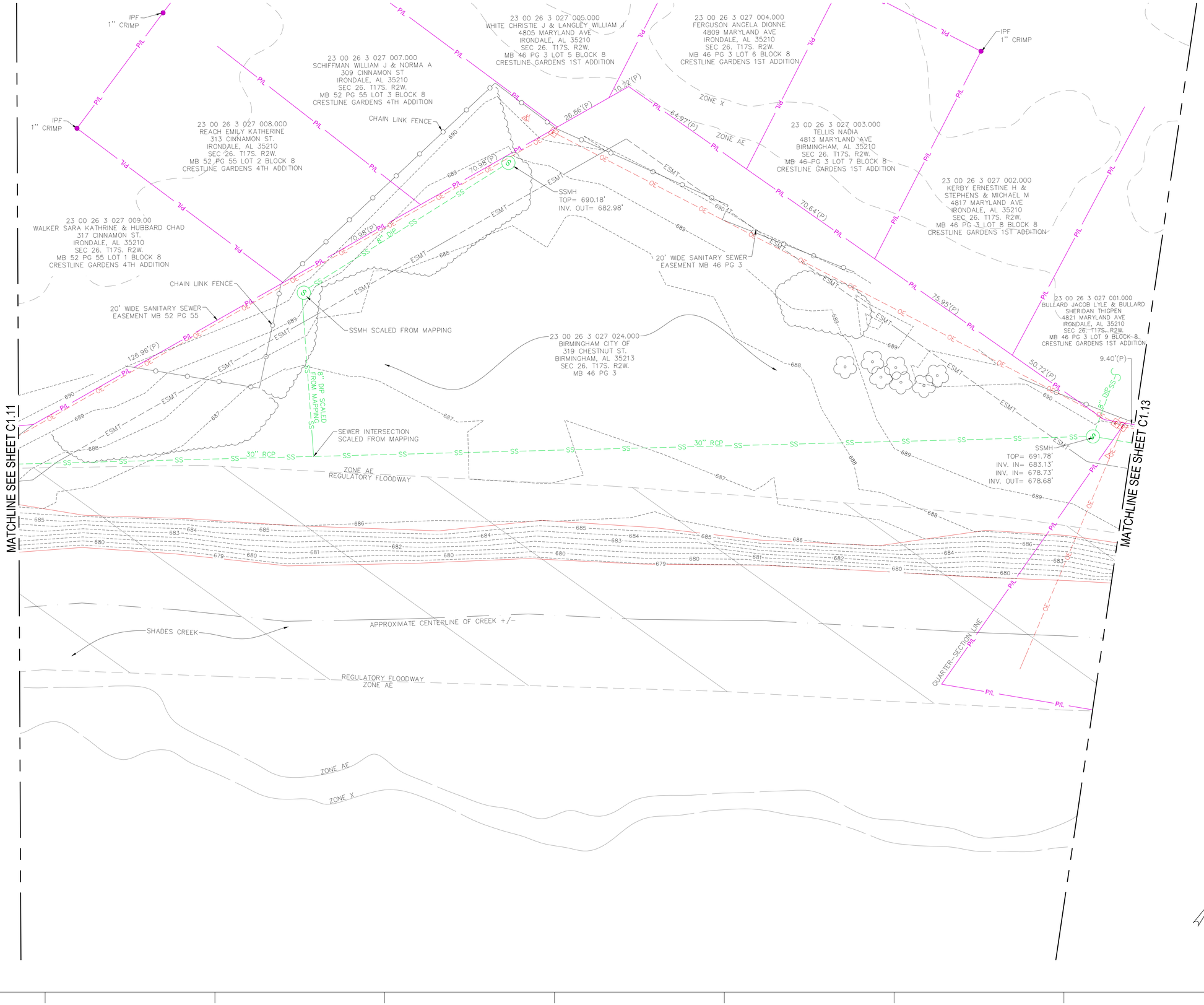

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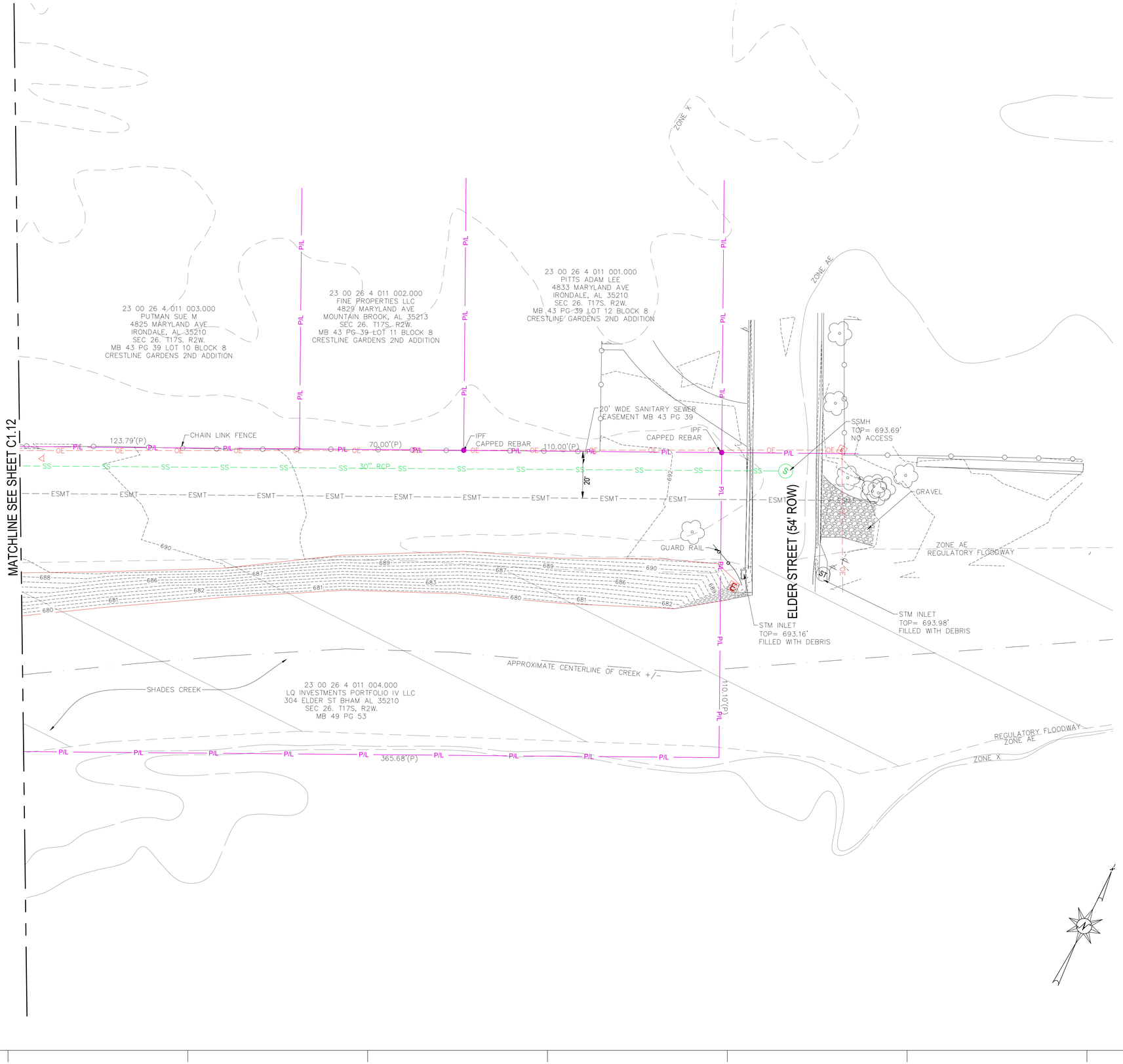

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EXISTING CONDITIONS SURVEY

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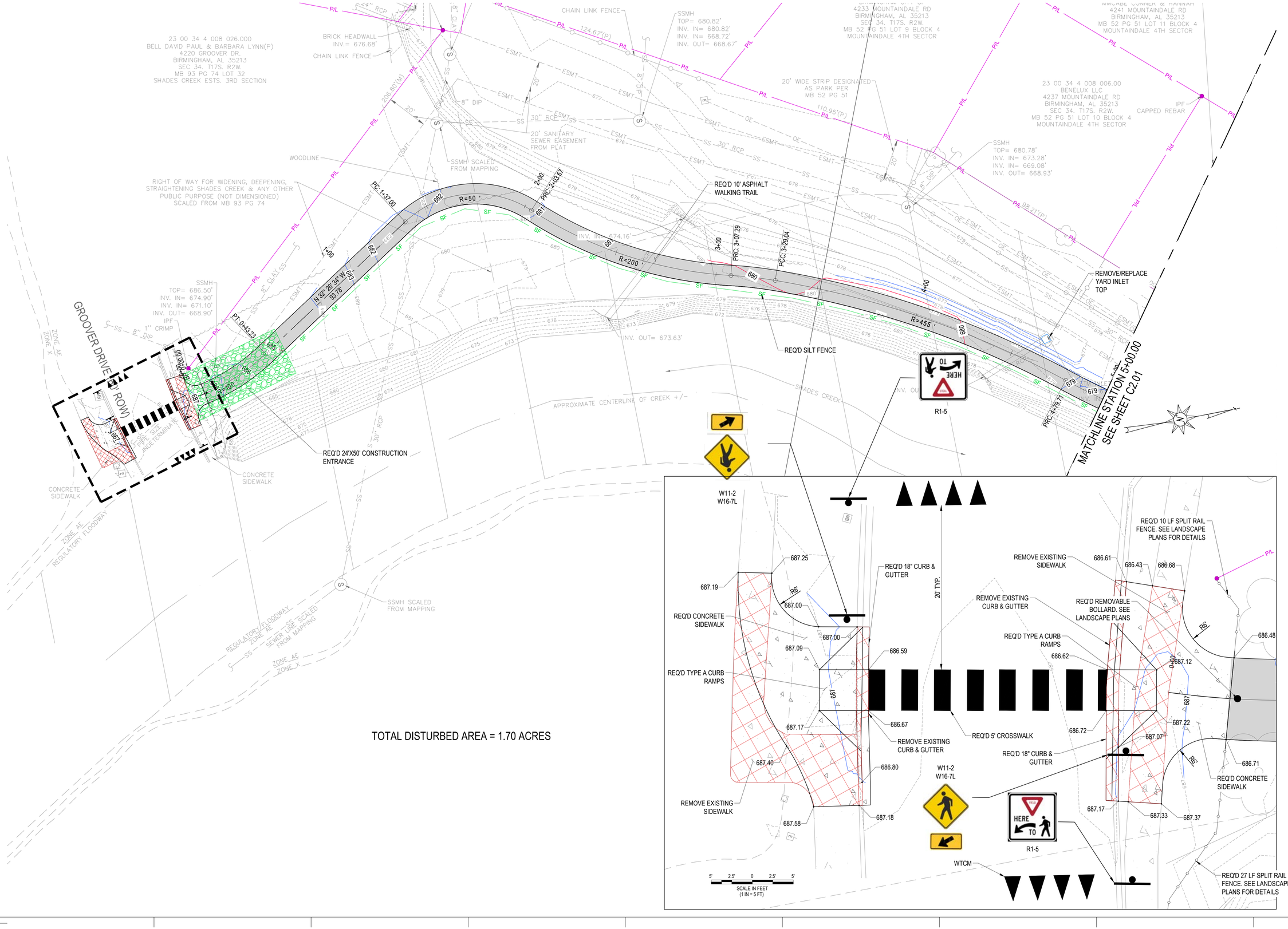

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SHADES CREEK GREENWAY

Project No. 240305
BIRMINGHAM, AL

SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

NO.	DATE:	DESCRIPTION:

PROJECT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
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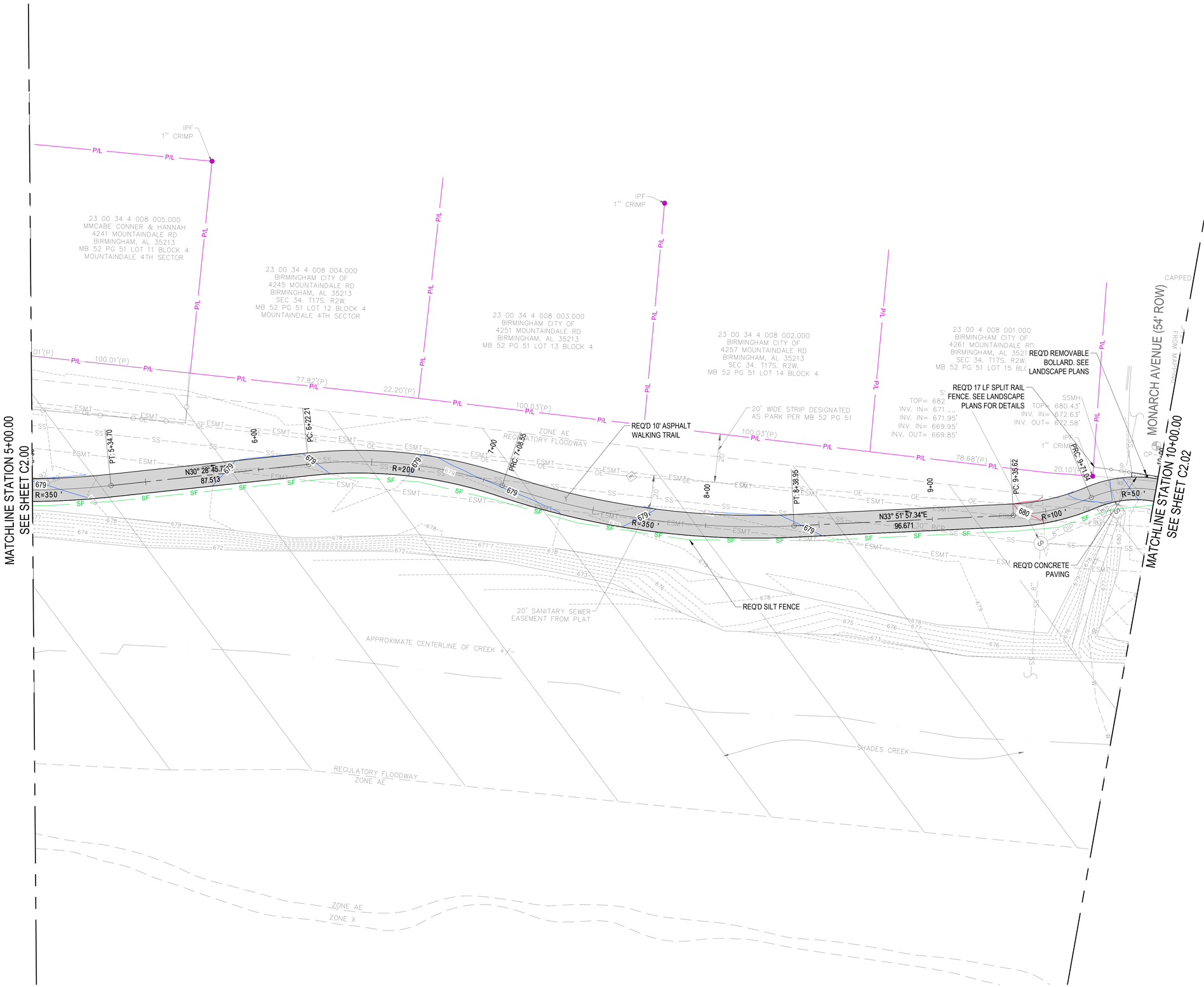
SCALE IN FEET
(1 IN = 20 FT)

SHEET TITLE:
TRAIL PLAN

SHEET NUMBER:
C2.00



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SHEET TITLE:
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SHEET NUMBER:
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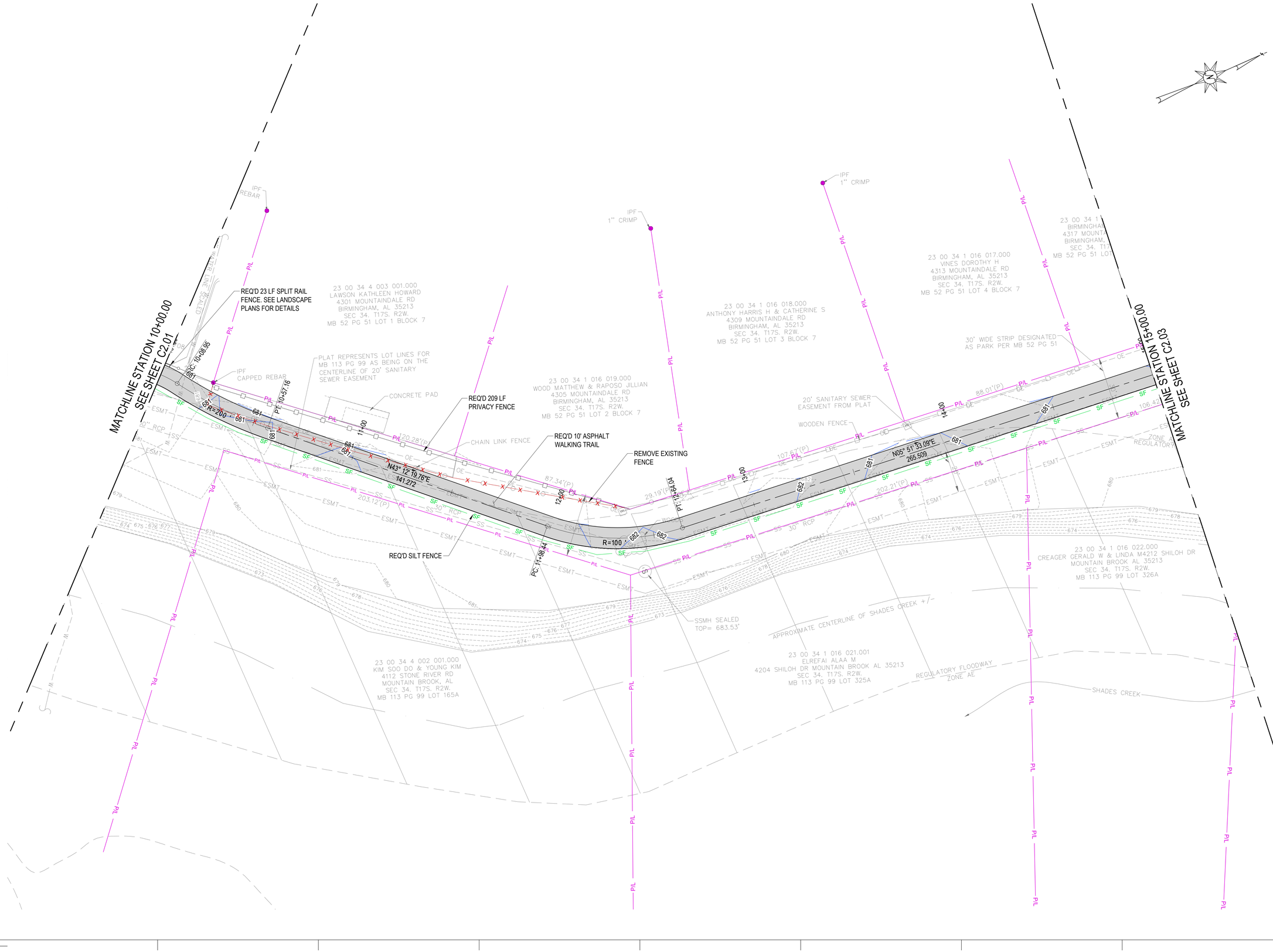

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DRAWN BY:	TJR
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SCALE:
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SCALE IN FEET
(1 IN = 20 FT)

SHEET TITLE:
TRAIL PLAN

SHEET NUMBER:
C2.02

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NO.	DATE:	DESCRIPTION:

PROJECT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

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(1 IN = 20 FT)

SHEET TITLE:
TRAIL PLAN

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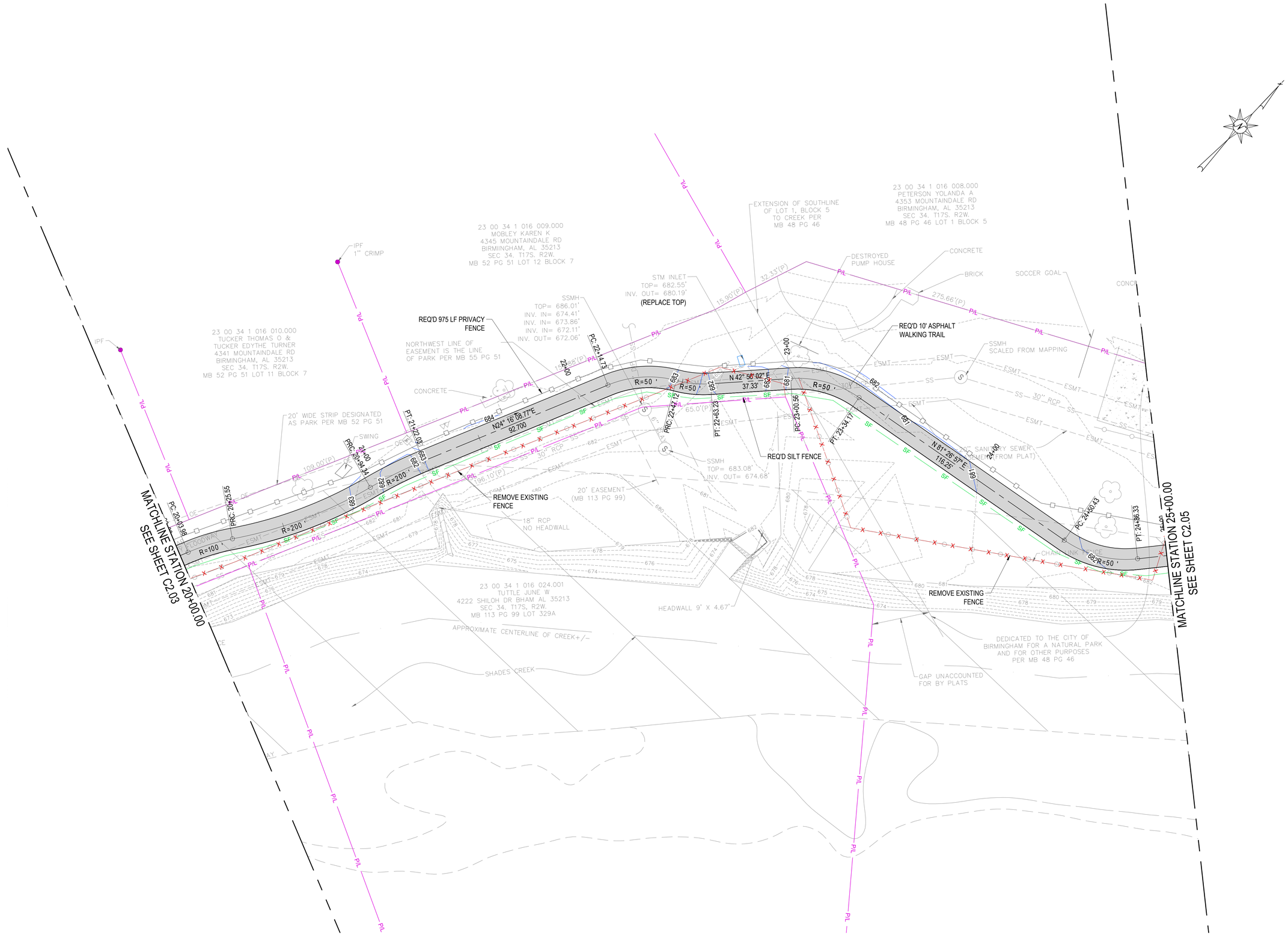

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PROJECT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

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(1 IN = 20 FT)

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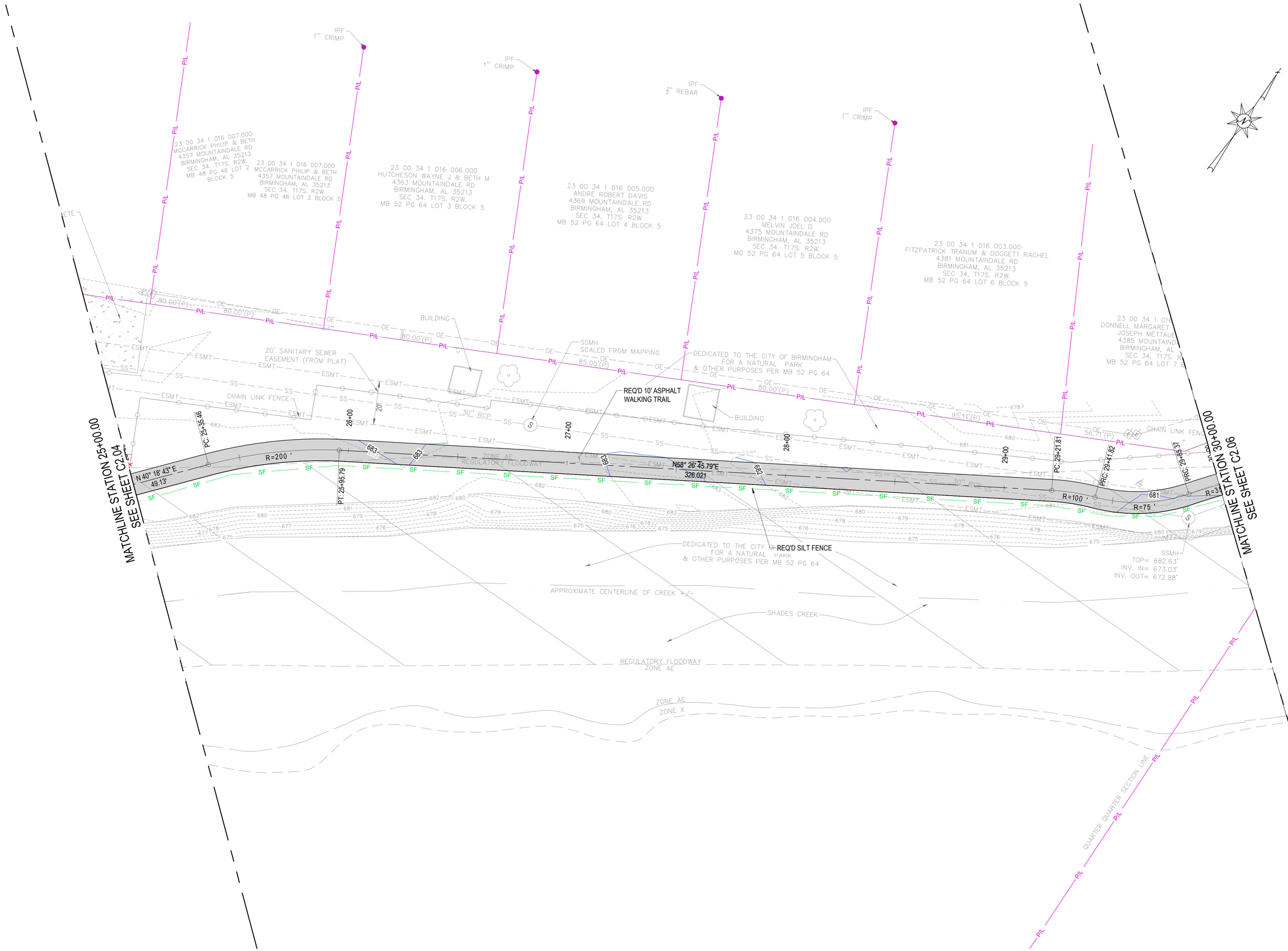

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ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

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TRAIL PLAN

SHEET NUMBER:
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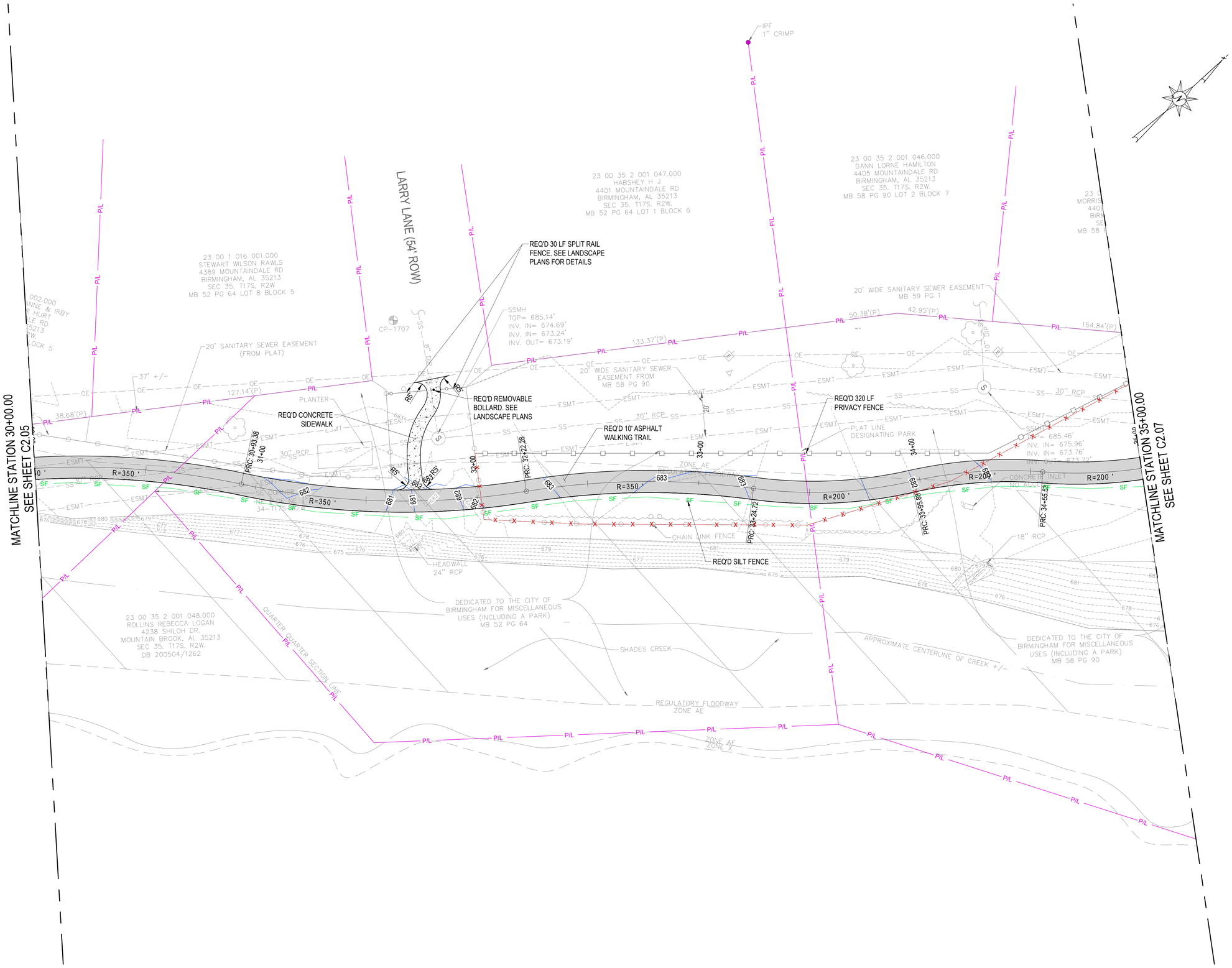

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DRAWN BY:	TJR
CHECKED BY:	MOK

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TRAIL PLAN

SHEET NUMBER:
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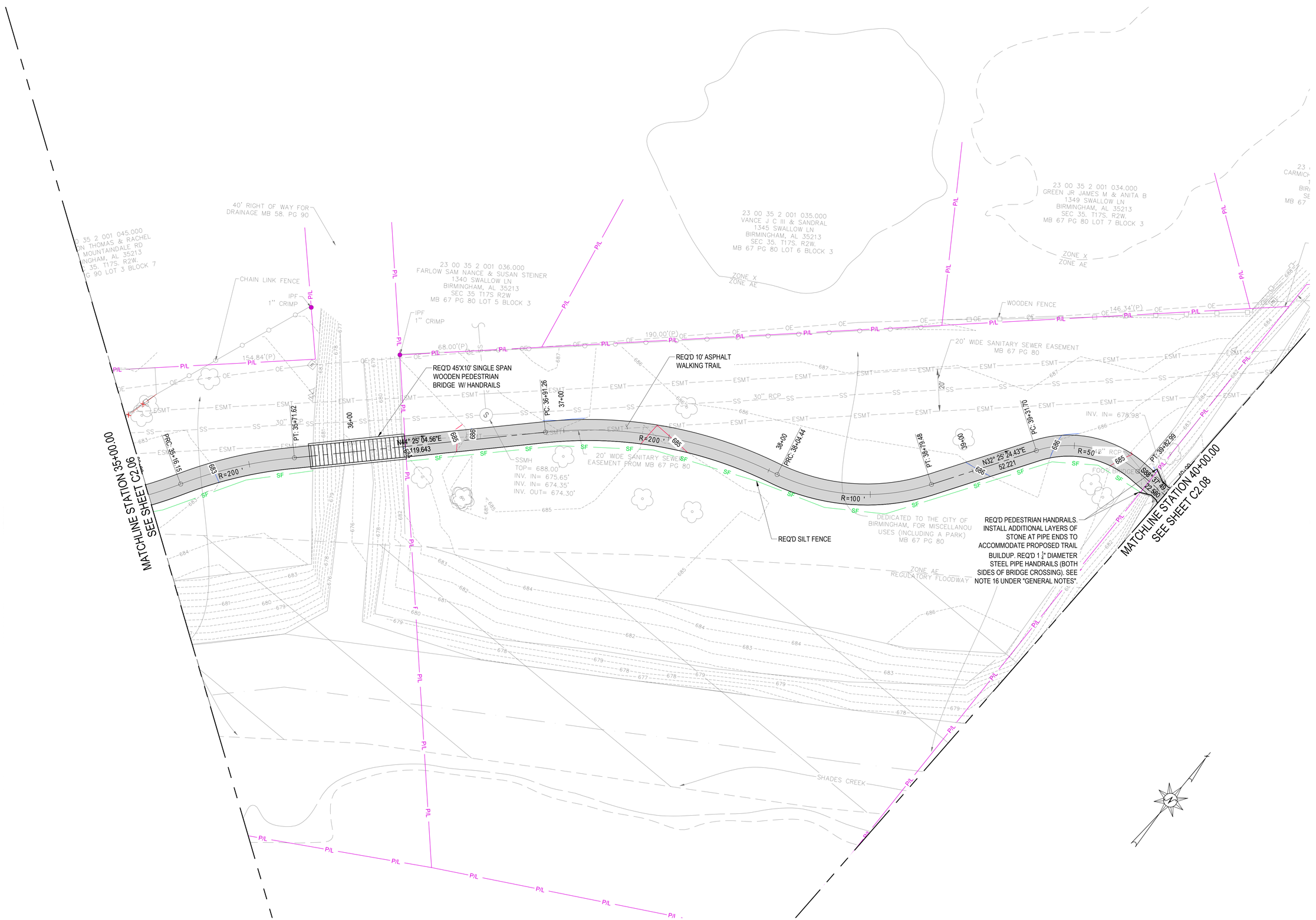

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(1 IN = 20 FT)

SHEET TITLE:
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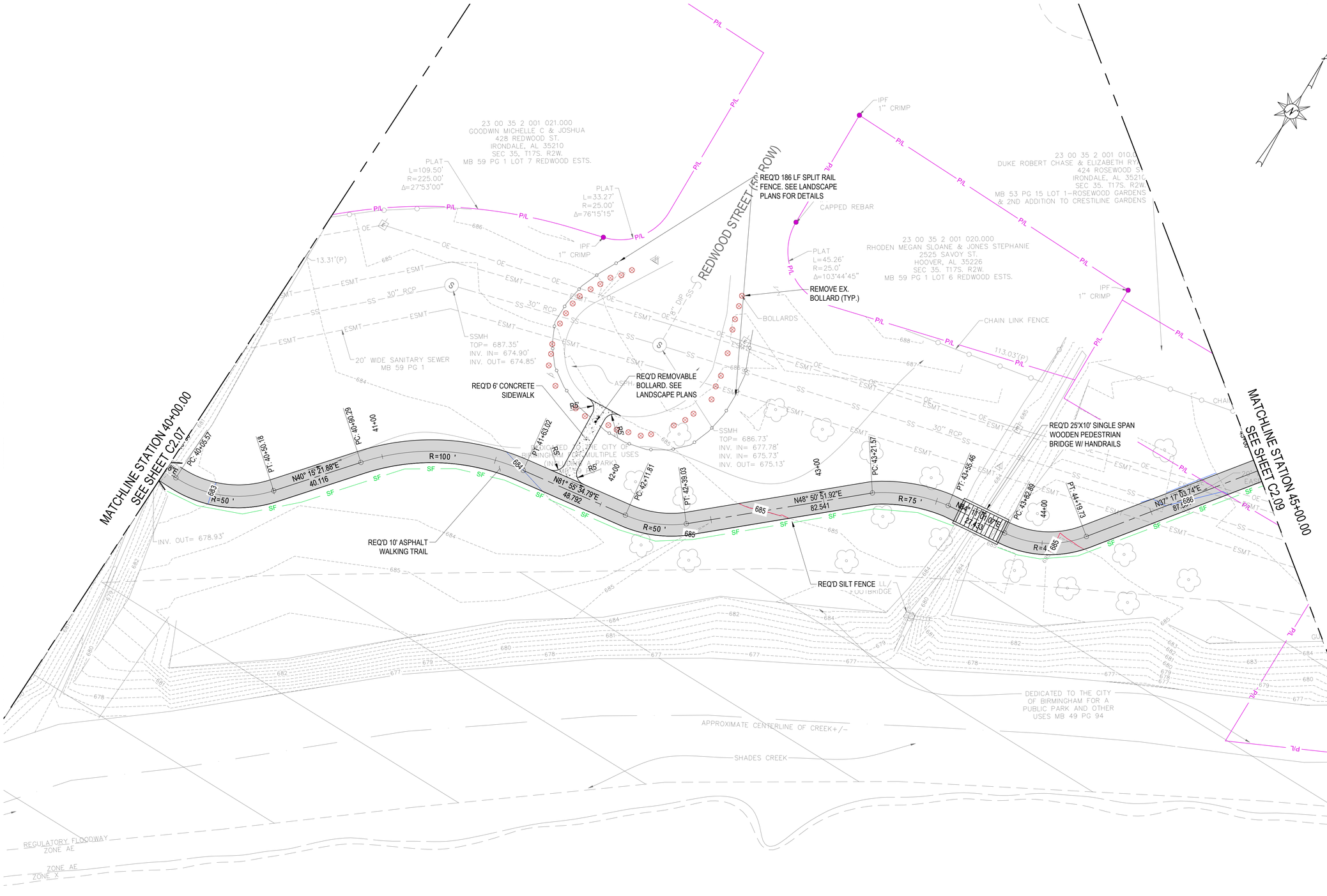

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ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

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(1 IN = 20 FT)

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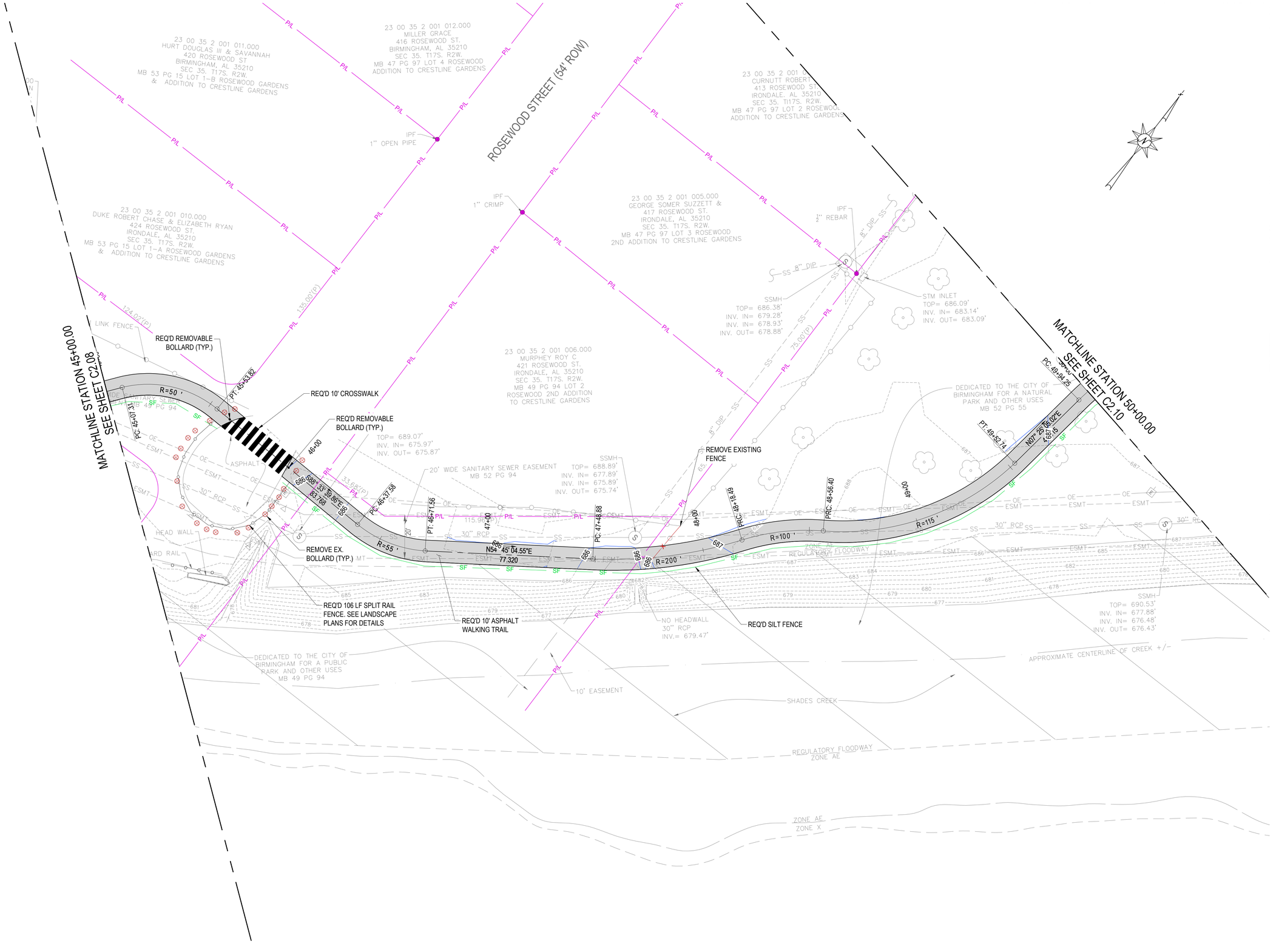

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DRAWN BY:	TJR
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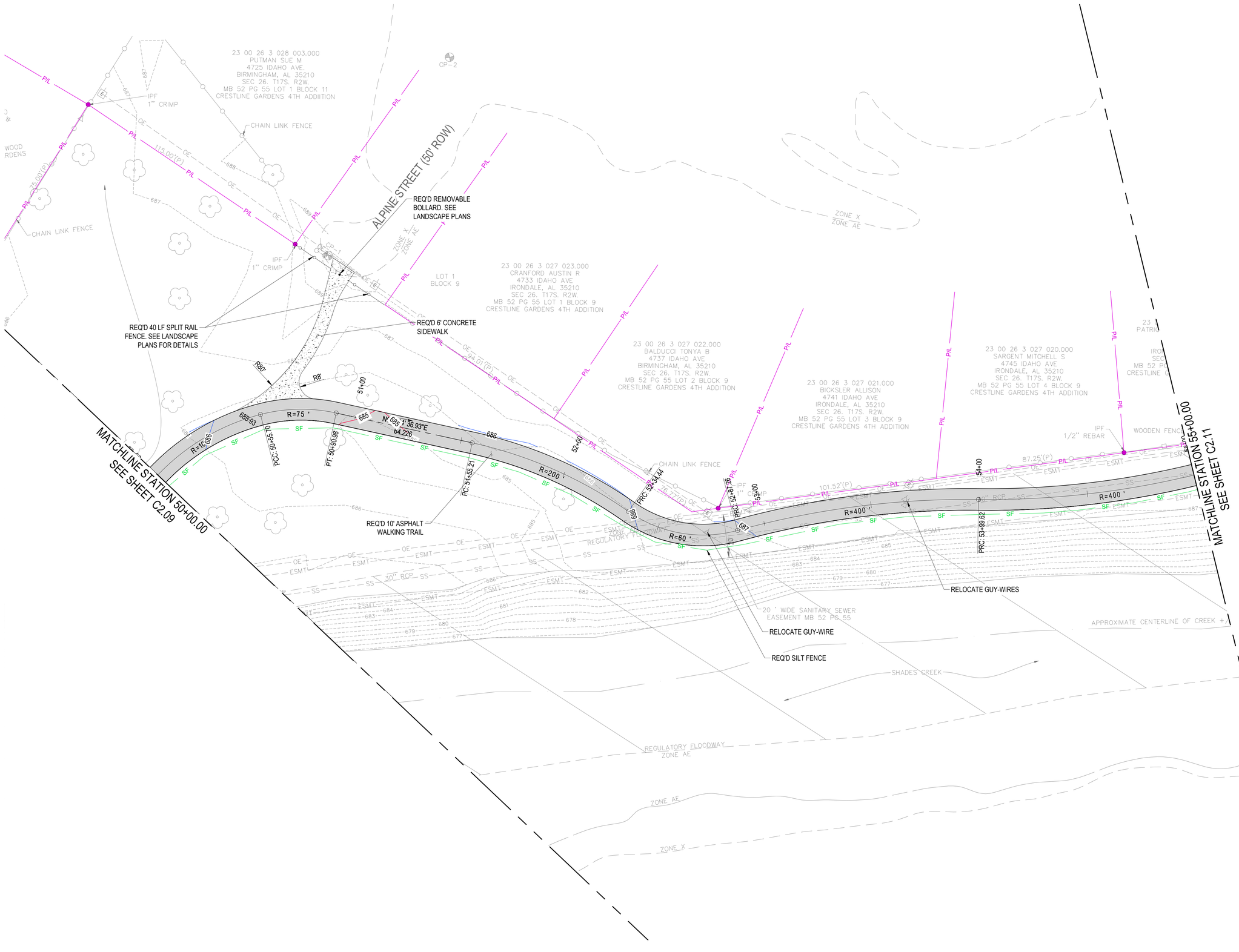
SCALE IN FEET
(1 IN = 20 FT)

SHEET TITLE:
TRAIL PLAN

SHEET NUMBER:
C2.09



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ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

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(1 IN = 20 FT)

SHEET TITLE:
TRAIL PLAN

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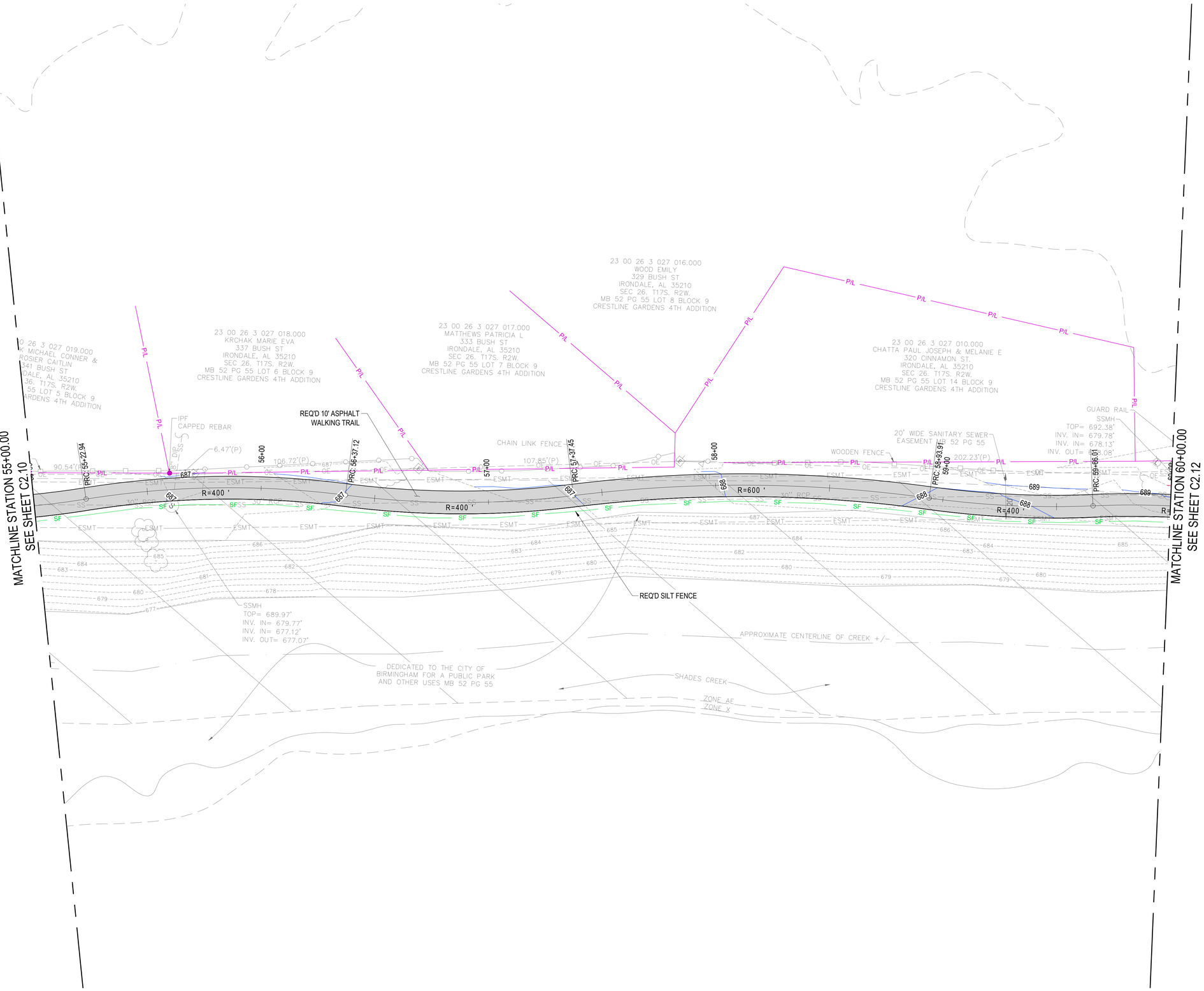

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PROJECT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
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SCALE IN FEET
(1 IN = 20 FT)

SHEET TITLE:
TRAIL PLAN

SHEET NUMBER:
C2.11

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PROJECT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

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TRAIL PLAN

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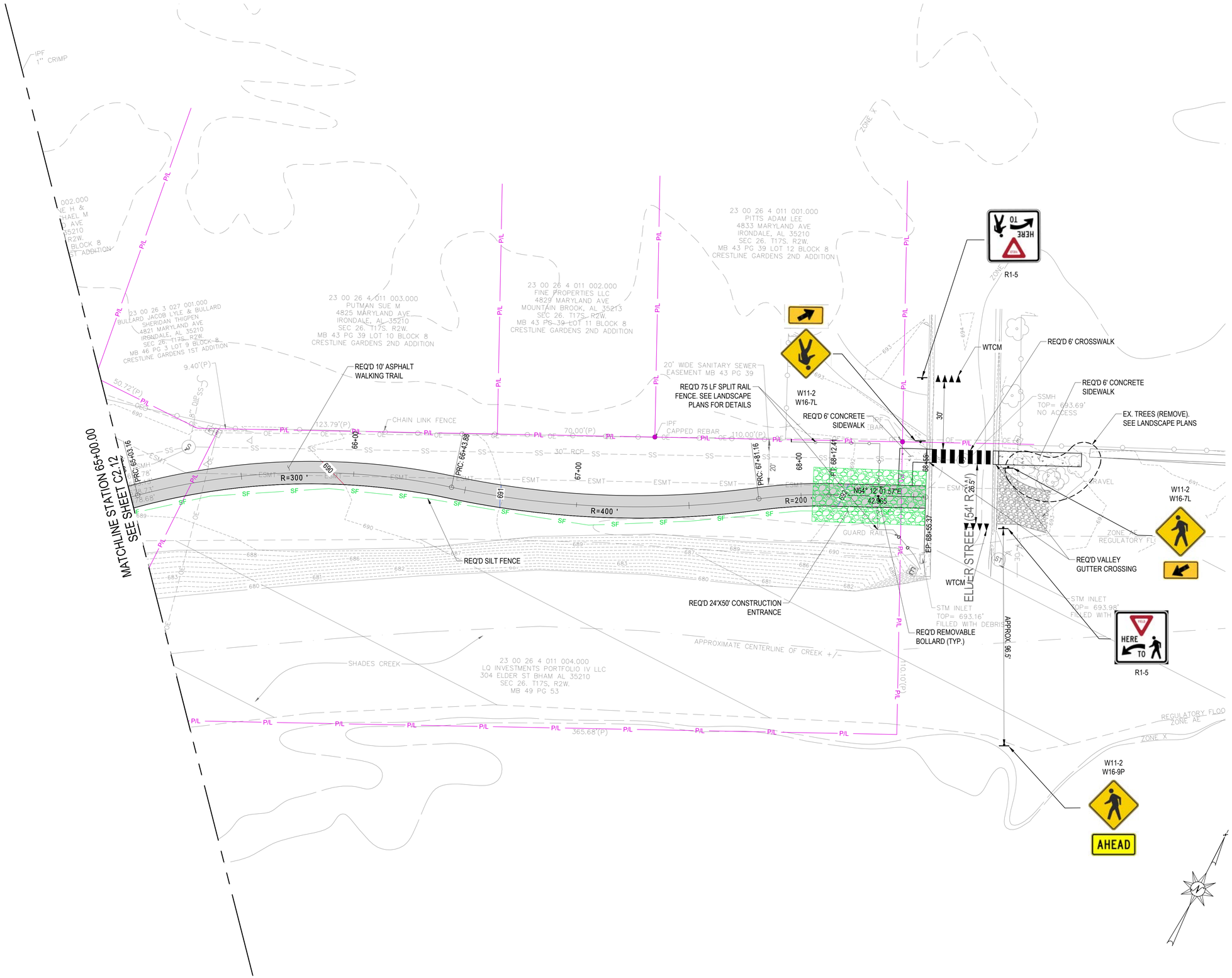

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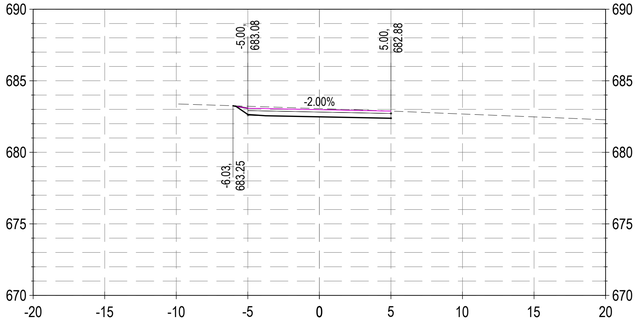
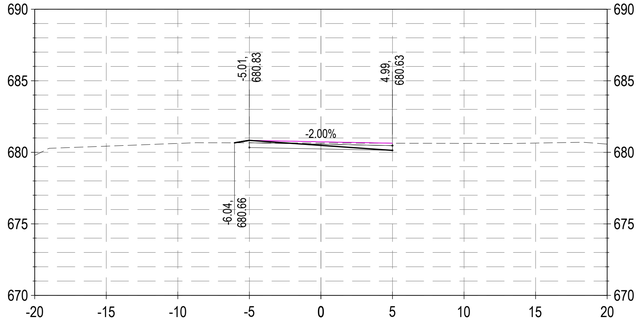


1+00

EARTHWORK AT STATION 1+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.96	7.65
FILL	0.00	0.01



2+50

EARTHWORK AT STATION 2+50.00		
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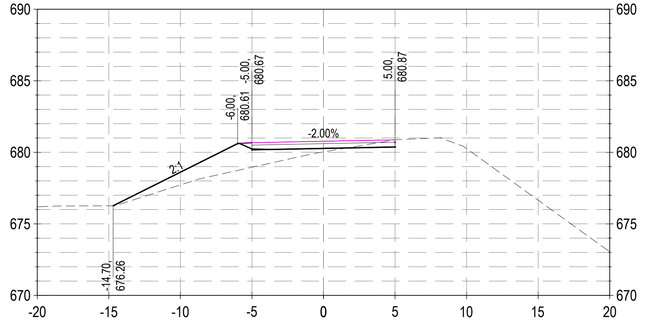
CUT	1.86	4.95
FILL	0.31	0.32



4+00

EARTHWORK AT STATION 4+00.00		
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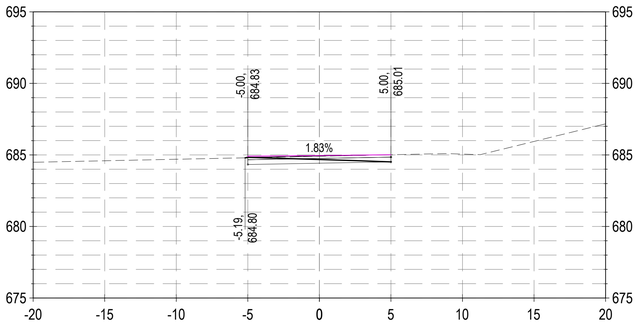
CUT	0.84	2.07
FILL	12.94	12.96



0+50

EARTHWORK AT STATION 0+50.00		
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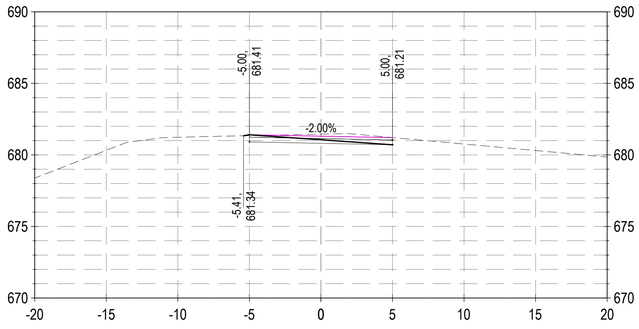
CUT	2.30	2.17
FILL	0.01	0.01



2+00

EARTHWORK AT STATION 2+00.00		
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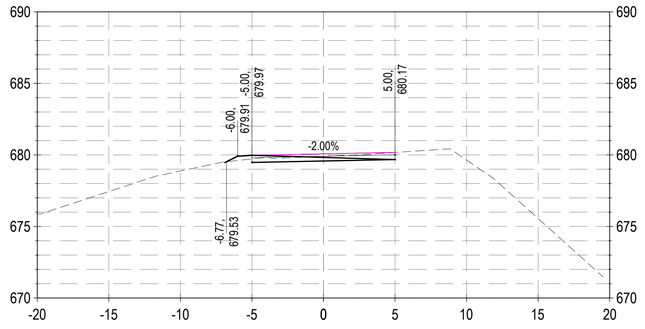
FILL	0.03	0.31



3+50

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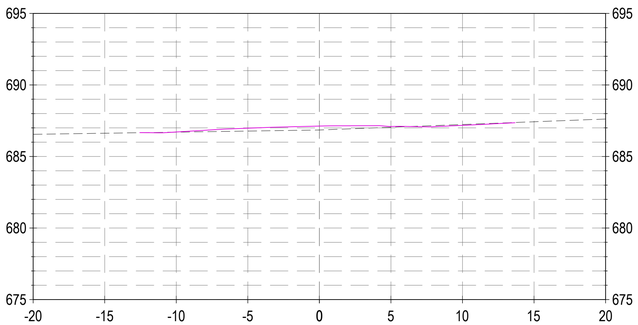
CUT	1.41	5.56
FILL	0.85	0.91



0+00

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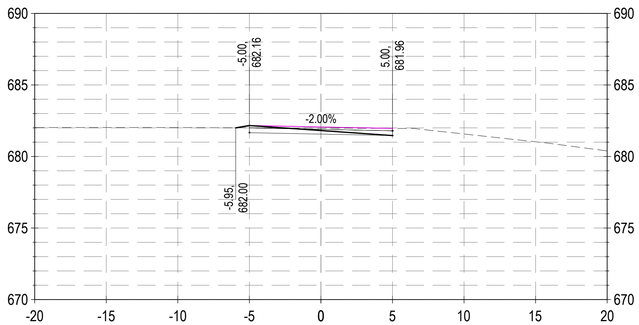
FILL	0.00	0.00



1+50

EARTHWORK AT STATION 1+50.00		
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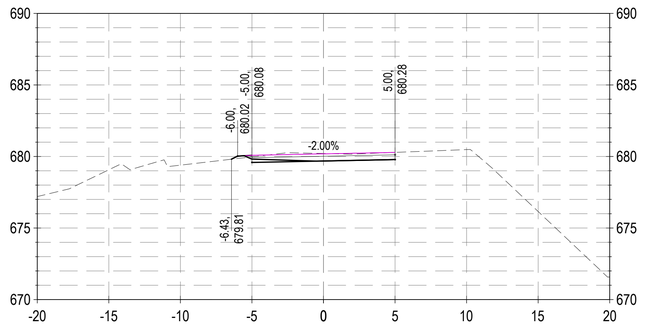
CUT	1.89	7.26
FILL	0.27	0.26



3+00

EARTHWORK AT STATION 3+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.61	6.02
FILL	0.12	0.40

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DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
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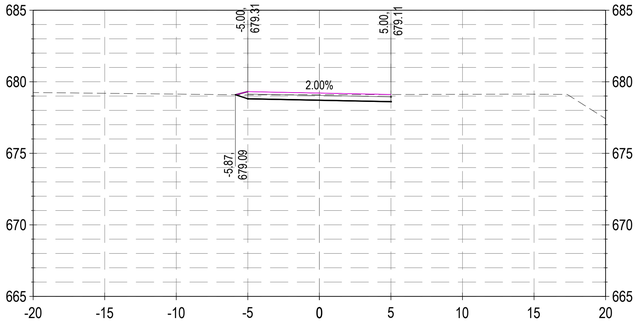
SCALE IN FEET
(1 IN = 5 FT)

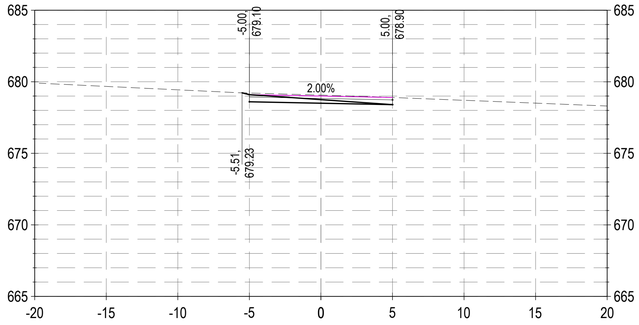
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.00



5+50

EARTHWORK AT STATION 5+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.98	7.39
FILL	0.00	0.40



7+00

EARTHWORK AT STATION 7+00.00		
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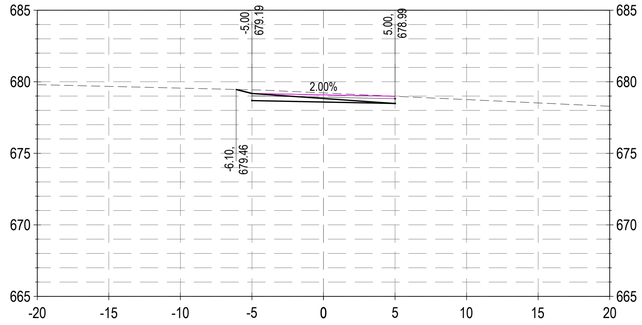
CUT	3.18	6.63
FILL	0.00	0.00



8+50

EARTHWORK AT STATION 8+50.00		
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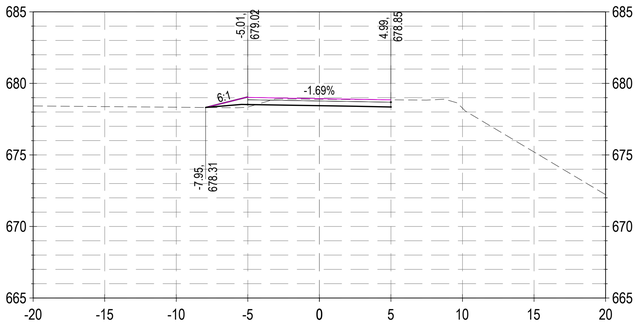
FILL	0.00	0.00



5+00

EARTHWORK AT STATION 5+00.00		
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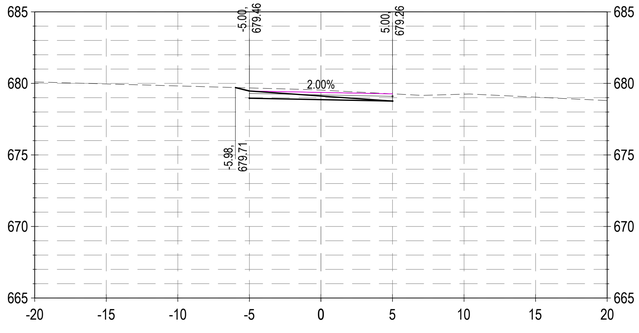
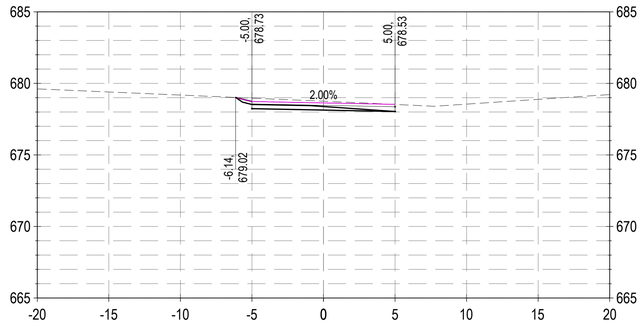
FILL	0.43	9.27



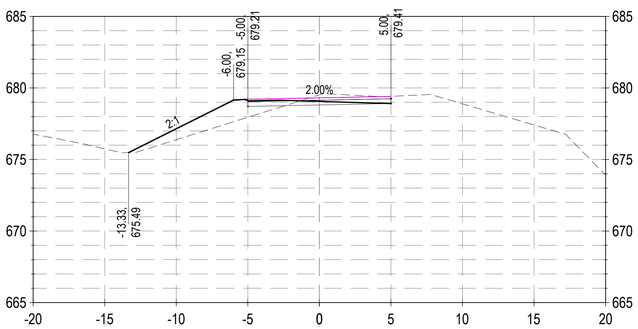
6+50

EARTHWORK AT STATION 6+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.01	10.57
FILL	0.00	0.00



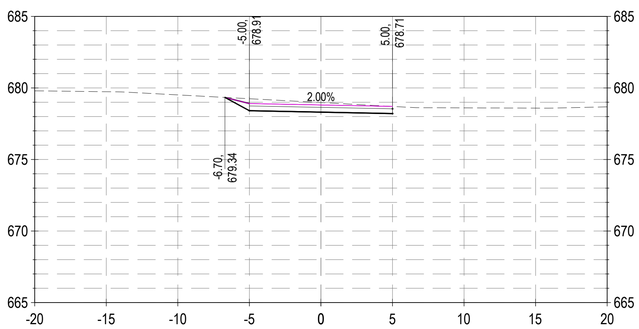
8+00

EARTHWORK AT STATION 8+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.45	5.16
FILL	0.00	0.26



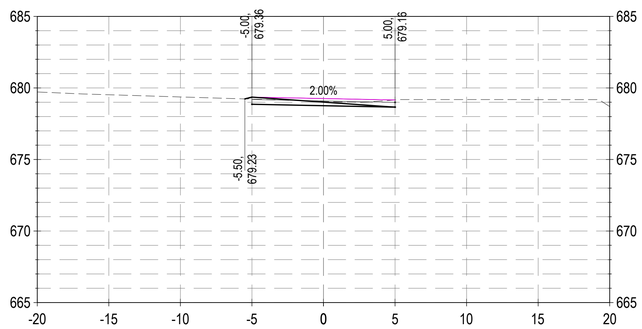
4+50

EARTHWORK AT STATION 4+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.81	3.36
FILL	9.58	21.16



6+00

EARTHWORK AT STATION 6+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	7.39	10.52
FILL	0.00	0.00



7+50

EARTHWORK AT STATION 7+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.12	3.99
FILL	0.28	0.26

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CONSTRUCTION PLANS FOR:

SHADES CREEK GREENWAY

Project No. 240305
BIRMINGHAM, AL

SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

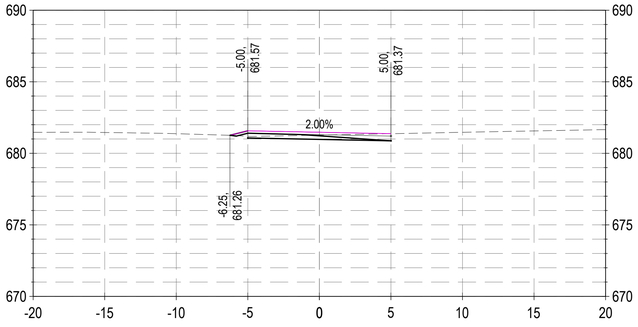
NO.	DATE:	DESCRIPTION:

PROJECT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

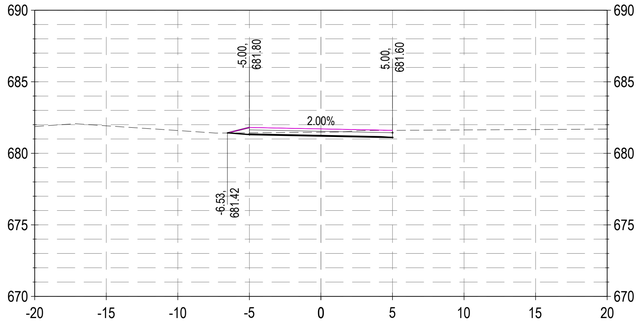
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.01



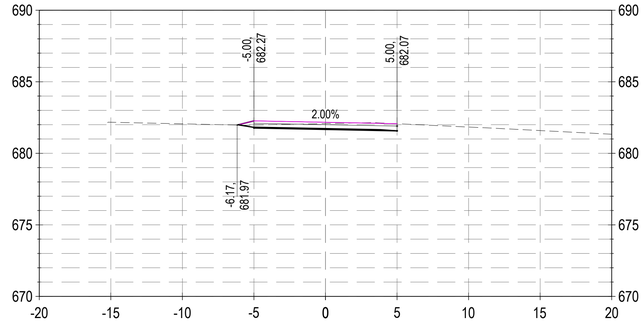
10+00

EARTHWORK AT STATION 10+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.40	2.61
FILL	0.65	1.55



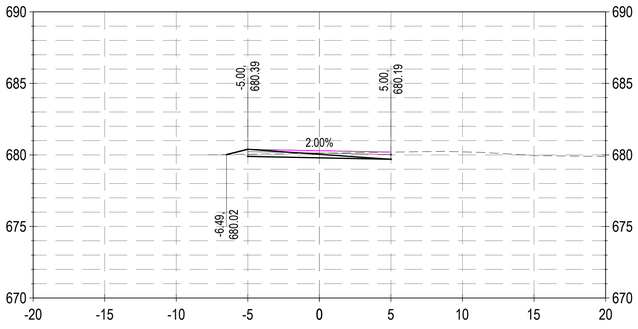
11+50

EARTHWORK AT STATION 11+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.69	4.14
FILL	0.00	0.47



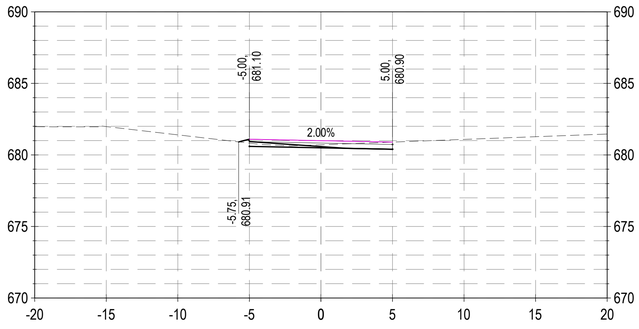
13+00

EARTHWORK AT STATION 13+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.53	7.61
FILL	0.00	0.00



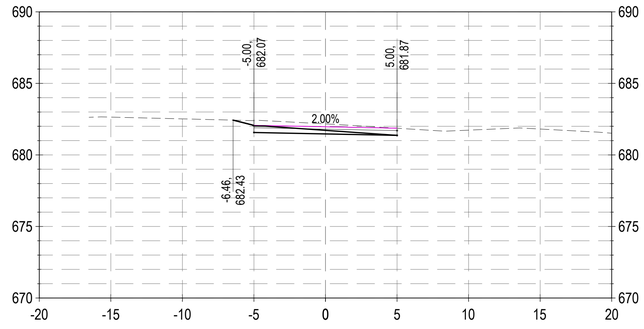
9+50

EARTHWORK AT STATION 9+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.48	6.04
FILL	0.97	0.89



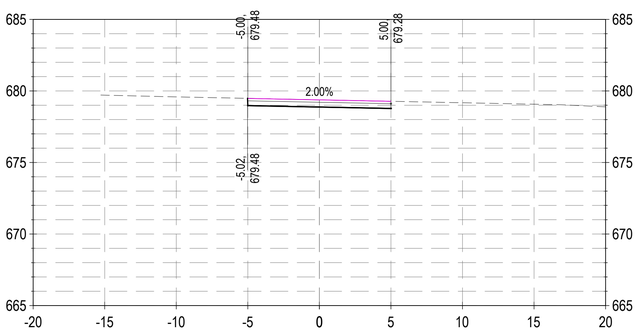
11+00

EARTHWORK AT STATION 11+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.78	2.90
FILL	0.51	0.94



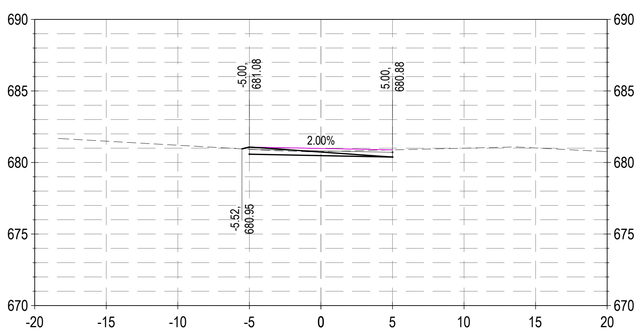
12+50

EARTHWORK AT STATION 12+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.69	7.55
FILL	0.00	0.02



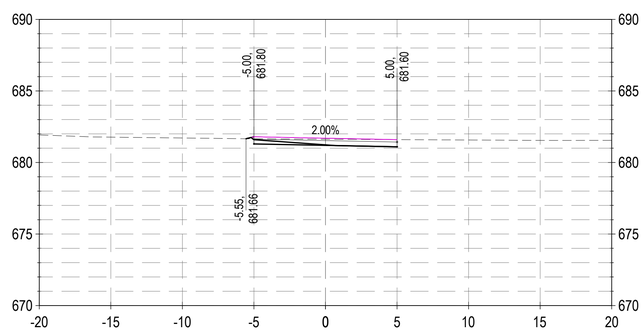
9+00

EARTHWORK AT STATION 9+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.03	8.38
FILL	0.00	0.00



10+50

EARTHWORK AT STATION 10+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.35	2.55
FILL	0.52	1.08



12+00

EARTHWORK AT STATION 12+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.43	5.67
FILL	0.02	0.02

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SHADES CREEK GREENWAY

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NO.	DATE:	DESCRIPTION:

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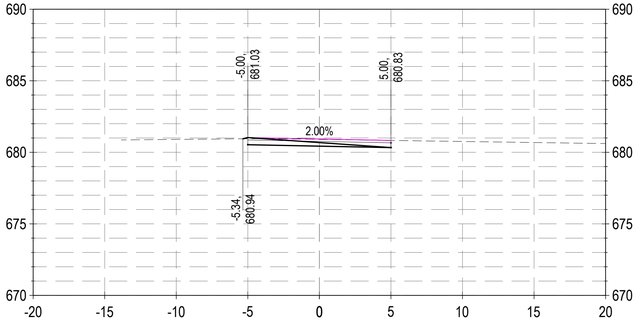
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

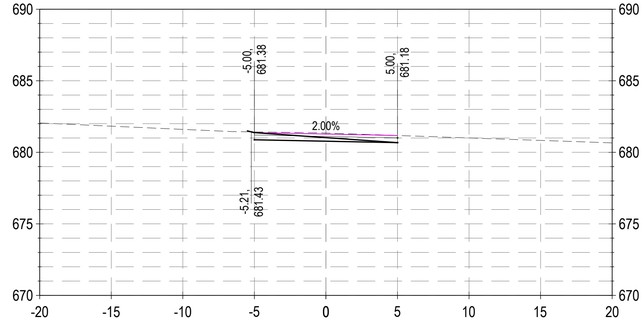
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.02



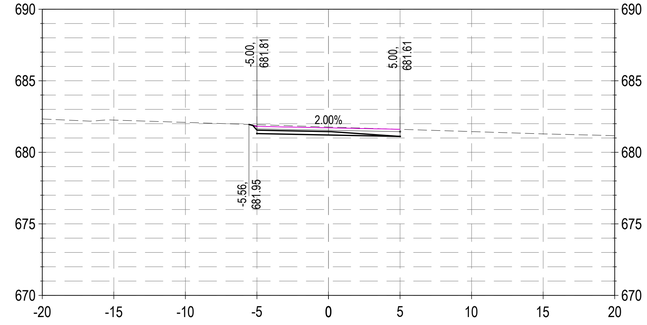
14+50

EARTHWORK AT STATION 14+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.26	6.01
FILL	0.06	0.05



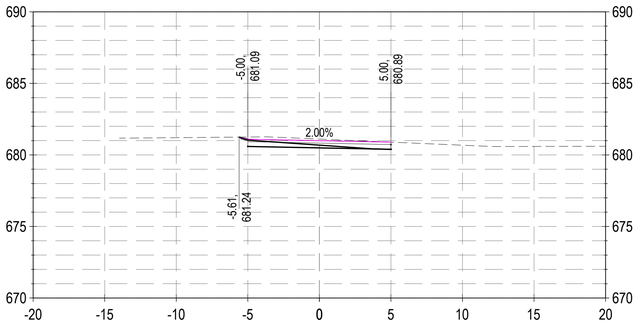
16+00

EARTHWORK AT STATION 16+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.02	5.60
FILL	0.01	0.01



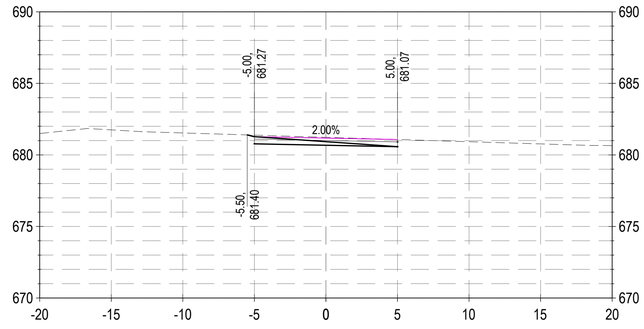
17+50

EARTHWORK AT STATION 17+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.86	6.69
FILL	0.00	0.00



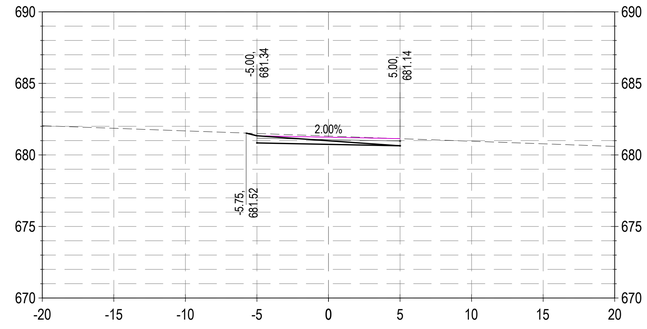
14+00

EARTHWORK AT STATION 14+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.23	7.92
FILL	0.00	0.00



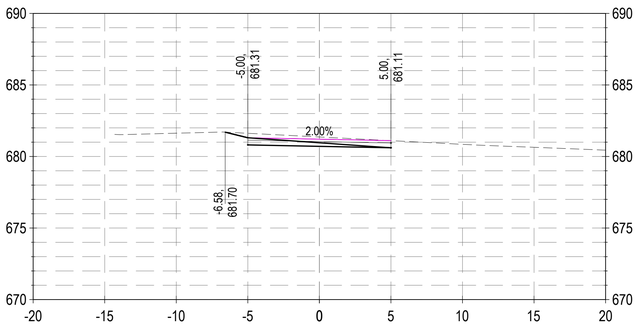
15+50

EARTHWORK AT STATION 15+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.07	4.71
FILL	0.00	0.06



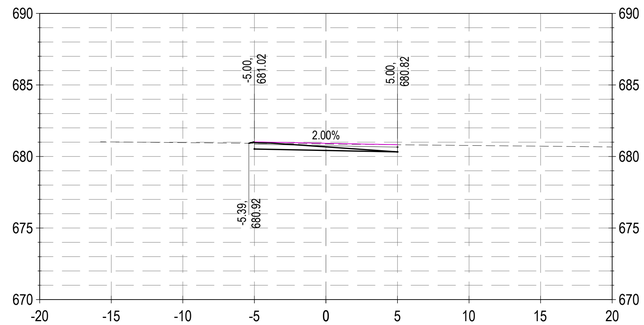
17+00

EARTHWORK AT STATION 17+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.37	8.75
FILL	0.00	0.00



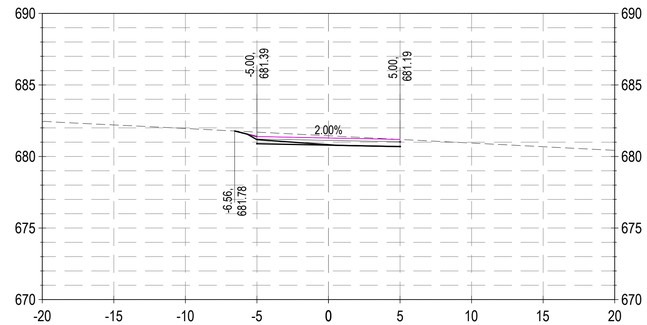
13+50

EARTHWORK AT STATION 13+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.32	7.26
FILL	0.00	0.00



15+00

EARTHWORK AT STATION 15+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.08	4.02
FILL	0.07	0.11



16+50

EARTHWORK AT STATION 16+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	6.08	8.42
FILL	0.00	0.01

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SHADES CREEK GREENWAY

Project No. 240305
BIRMINGHAM, AL

SUBMITTAL:
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NO.	DATE:	DESCRIPTION:

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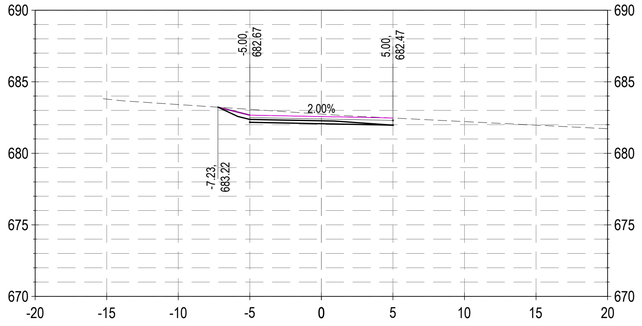
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

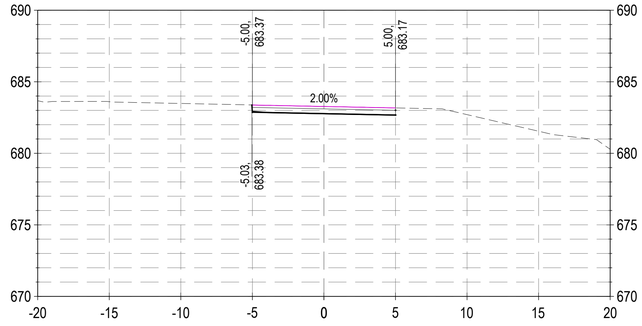
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.03



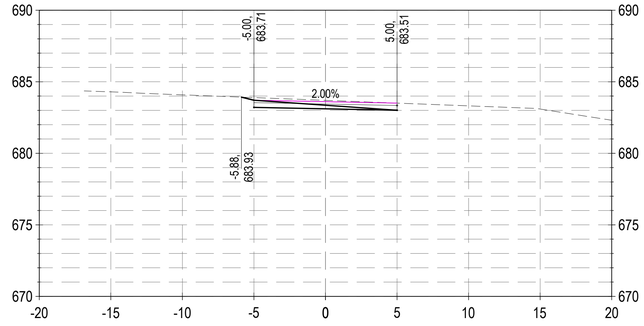
19+00

EARTHWORK AT STATION 19+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	6.15	10.79
FILL	0.00	0.00



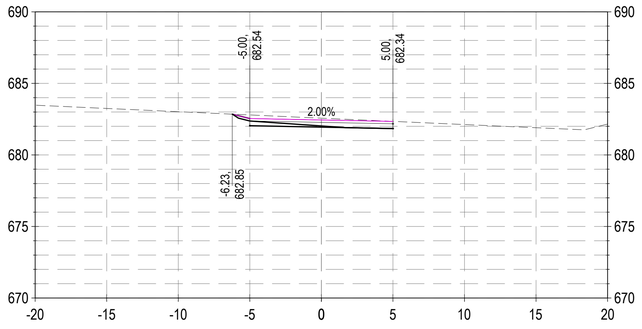
20+50

EARTHWORK AT STATION 20+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.02	8.04
FILL	0.00	0.00



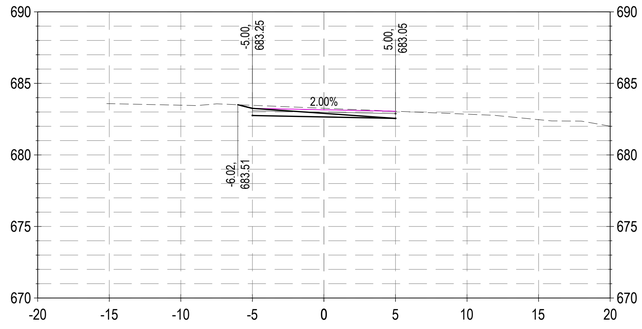
22+00

EARTHWORK AT STATION 22+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.51	8.84
FILL	0.00	0.00



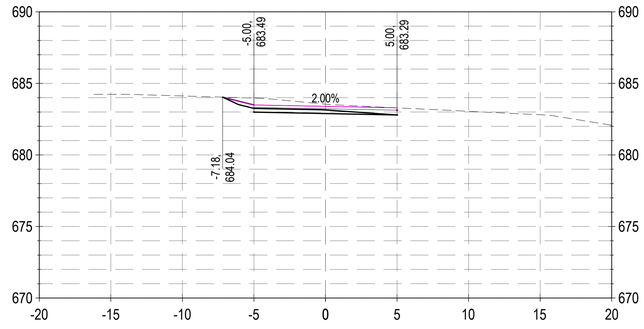
18+50

EARTHWORK AT STATION 18+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.49	9.41
FILL	0.00	0.00



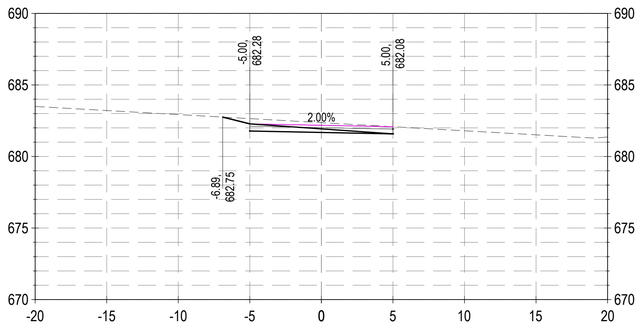
20+00

EARTHWORK AT STATION 20+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.67	5.68
FILL	0.00	0.00



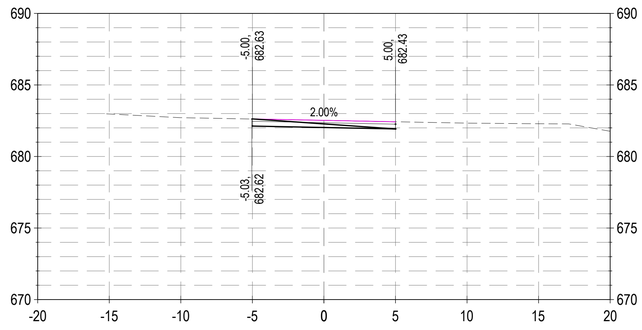
21+50

EARTHWORK AT STATION 21+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	6.04	11.73
FILL	0.00	0.00



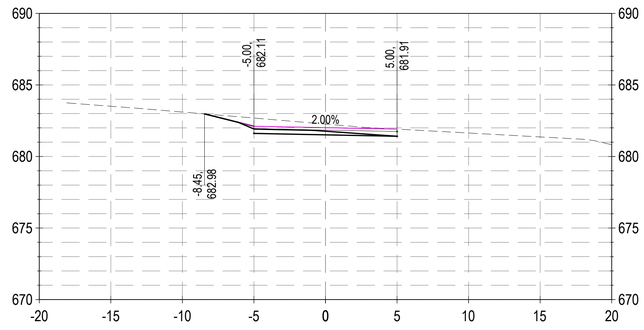
18+00

EARTHWORK AT STATION 18+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.68	7.90
FILL	0.00	0.00



19+50

EARTHWORK AT STATION 19+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.45	7.95
FILL	0.00	0.00



21+00

EARTHWORK AT STATION 21+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	6.59	10.72
FILL	0.00	0.00

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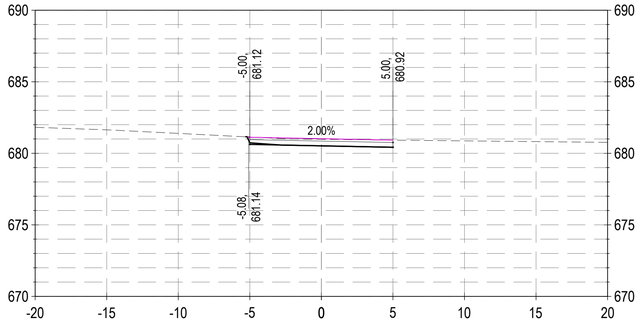
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

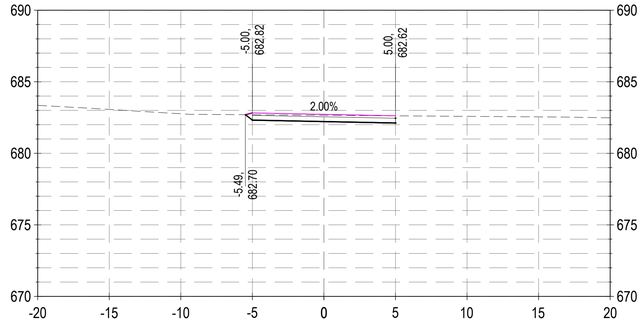
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.04



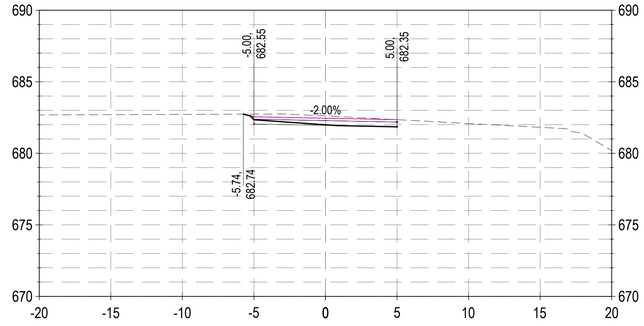
24+00

EARTHWORK AT STATION 24+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.60	10.11
FILL	0.00	3.54



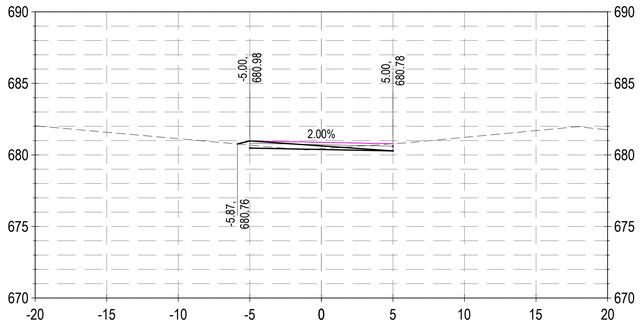
25+50

EARTHWORK AT STATION 25+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.47	5.90
FILL	0.00	0.18



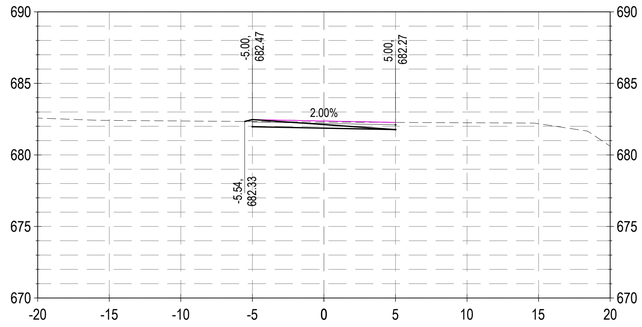
27+00

EARTHWORK AT STATION 27+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.71	8.86
FILL	0.00	0.00



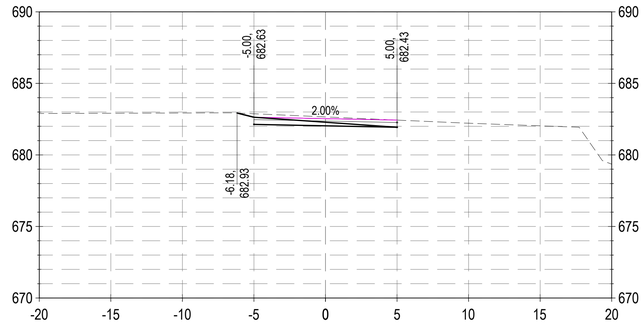
23+00

EARTHWORK AT STATION 23+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	0.89	3.64
FILL	1.88	1.72



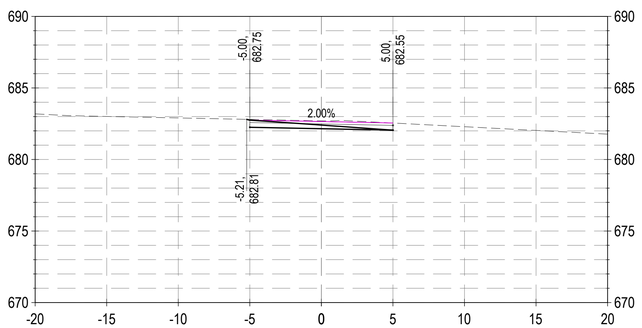
25+00

EARTHWORK AT STATION 25+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.92	4.27
FILL	0.19	0.17



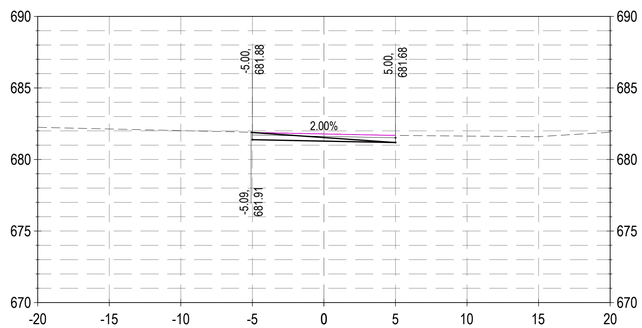
26+50

EARTHWORK AT STATION 26+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.86	6.02
FILL	0.00	0.00



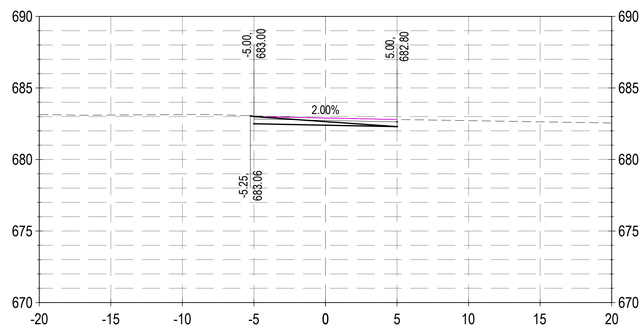
22+50

EARTHWORK AT STATION 22+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.01	5.96
FILL	0.00	0.00



24+50

EARTHWORK AT STATION 24+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.57	6.64
FILL	0.00	0.00



26+00

EARTHWORK AT STATION 26+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.64	6.56
FILL	0.00	0.00

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OWNER:

SEAL:

CONSTRUCTION PLANS FOR:

SHADES CREEK GREENWAY

Project No. 240305
BIRMINGHAM, AL

SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

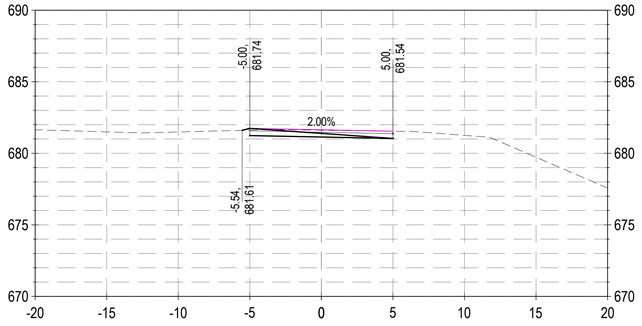
NO.	DATE:	DESCRIPTION:

PROJECT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

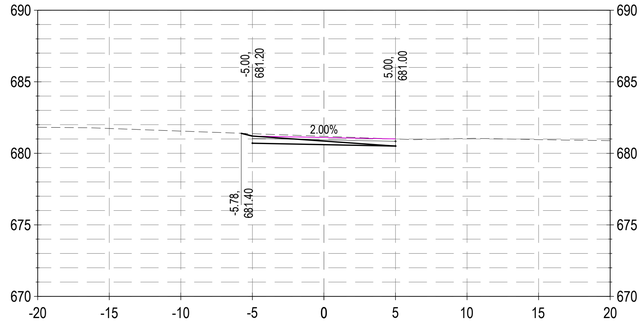
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.05



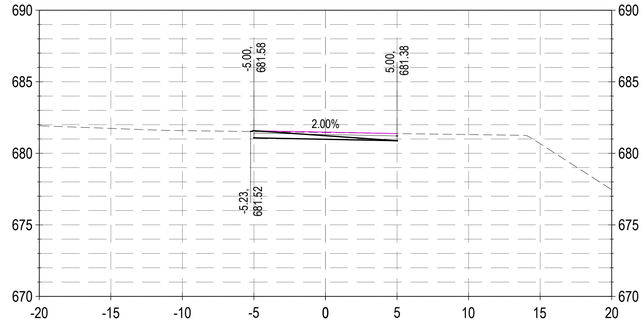
28+50

EARTHWORK AT STATION 28+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.23	4.70
FILL	0.11	0.10



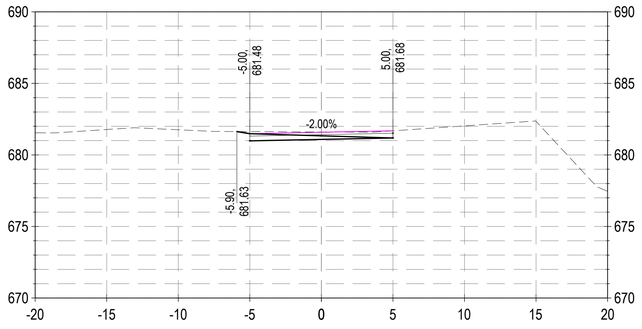
30+00

EARTHWORK AT STATION 30+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.40	6.49
FILL	0.00	0.00



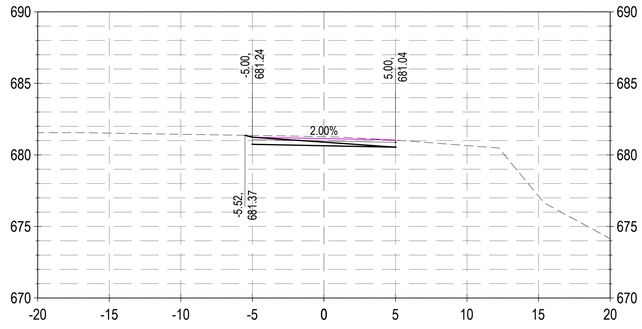
31+50

EARTHWORK AT STATION 31+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.22	3.97
FILL	0.04	0.40



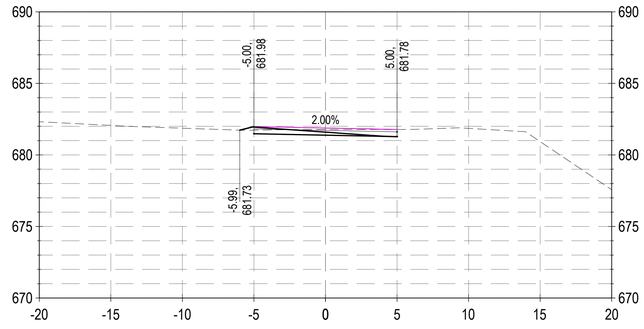
28+00

EARTHWORK AT STATION 28+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.85	3.62
FILL	0.00	2.93



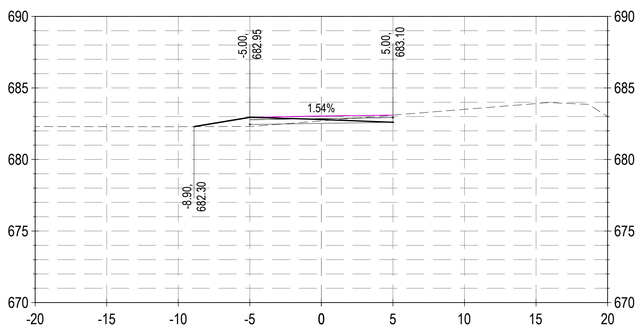
29+50

EARTHWORK AT STATION 29+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.56	7.32
FILL	0.00	0.00



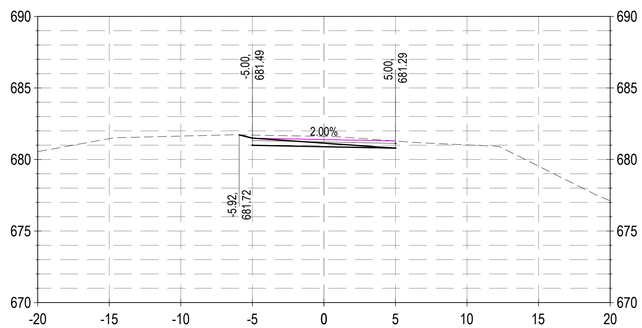
31+00

EARTHWORK AT STATION 31+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.04	3.35
FILL	0.39	0.38



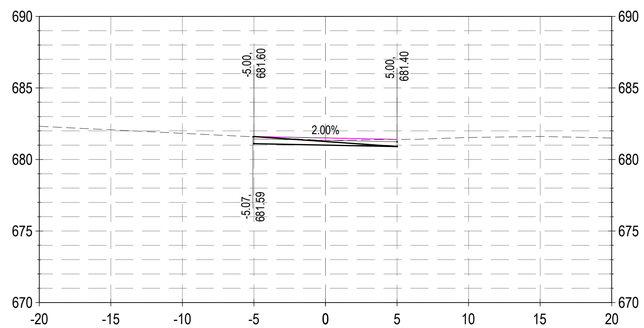
27+50

EARTHWORK AT STATION 27+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.05	6.26
FILL	3.16	2.93



29+00

EARTHWORK AT STATION 29+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.35	6.09
FILL	0.00	0.10



30+50

EARTHWORK AT STATION 30+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.60	4.61
FILL	0.01	0.01

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SHADES CREEK GREENWAY

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NO.	DATE:	DESCRIPTION:

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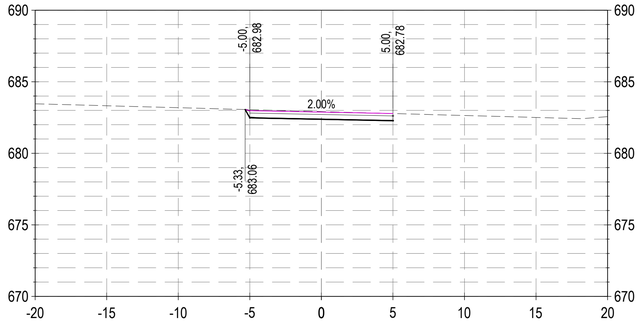
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

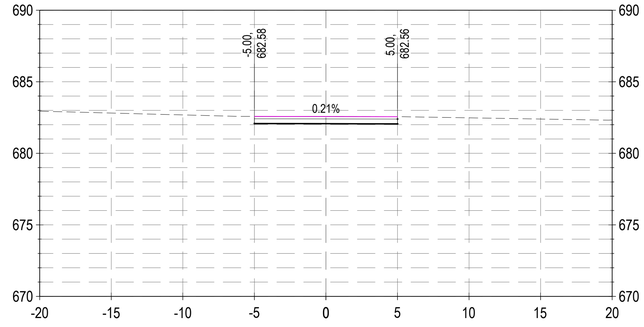
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.06



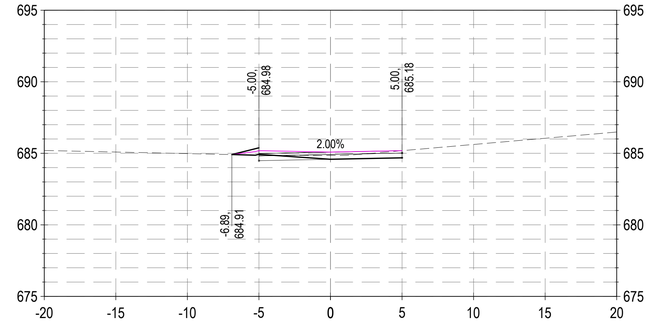
33+00

EARTHWORK AT STATION 33+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.45	7.10
FILL	0.00	0.04



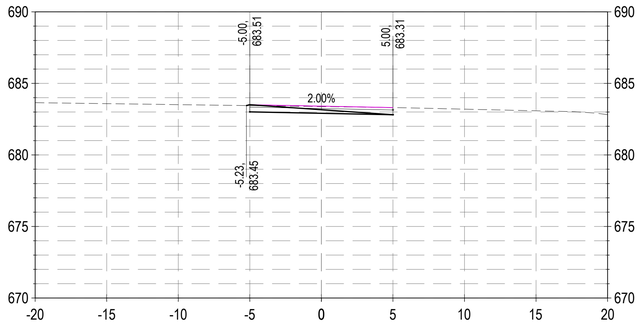
34+50

EARTHWORK AT STATION 34+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.00	9.26
FILL	0.00	0.00



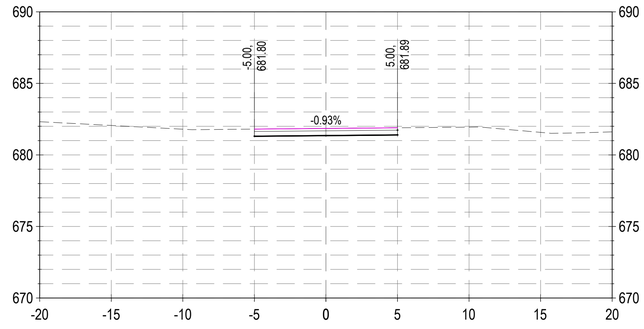
36+50

EARTHWORK AT STATION 36+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.27	2.10
FILL	0.04	0.04



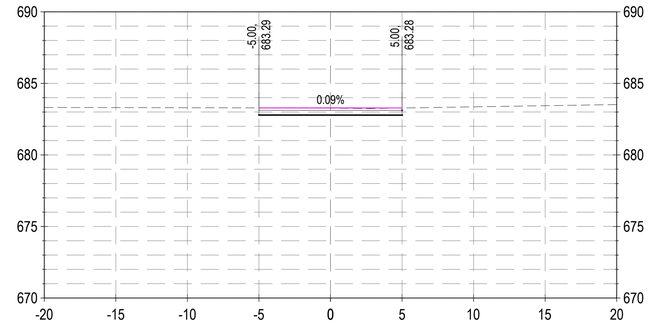
32+50

EARTHWORK AT STATION 32+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.23	4.46
FILL	0.04	0.07



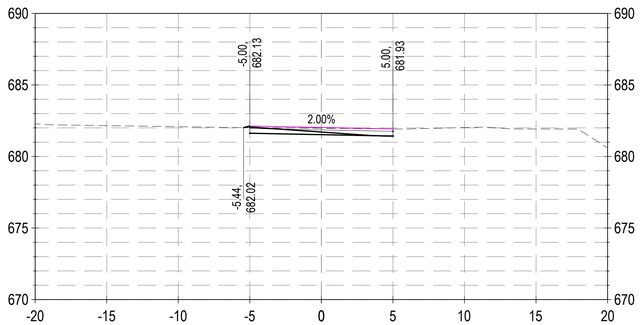
34+00

EARTHWORK AT STATION 34+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.00	9.26
FILL	0.00	0.00



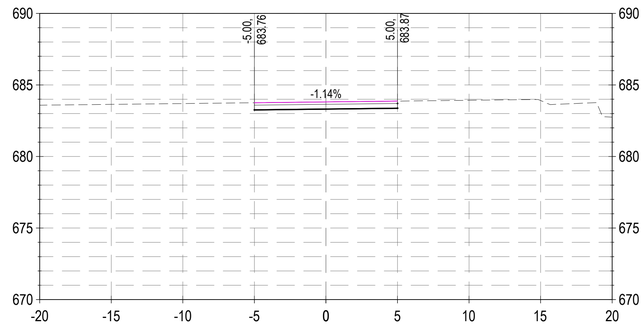
35+50

EARTHWORK AT STATION 35+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.84	9.11
FILL	0.00	0.00



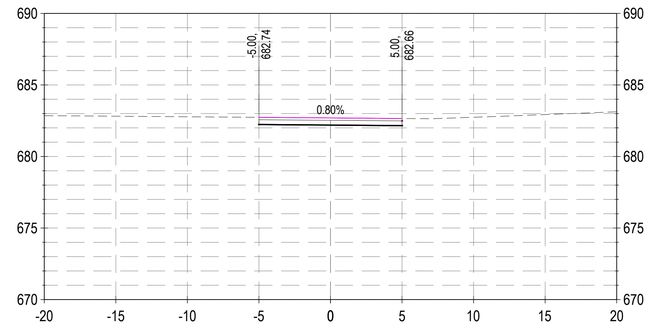
32+00

EARTHWORK AT STATION 32+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.59	4.48
FILL	0.04	0.07



33+50

EARTHWORK AT STATION 33+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.00	9.68
FILL	0.00	0.00



35+00

EARTHWORK AT STATION 35+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.00	9.26
FILL	0.00	0.00

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SHADES CREEK GREENWAY

Project No. 240305
BIRMINGHAM, AL

SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

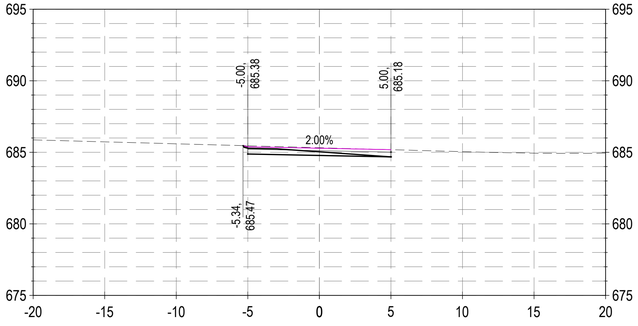
NO.	DATE:	DESCRIPTION:

PROJECT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

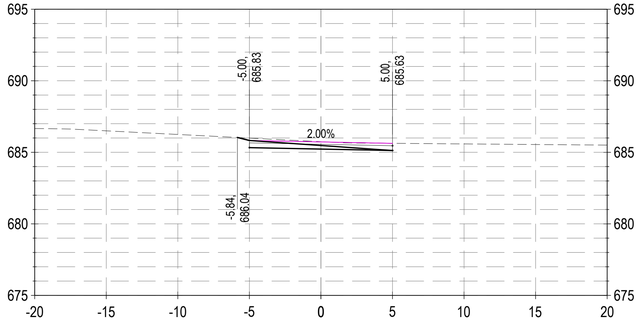
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.07



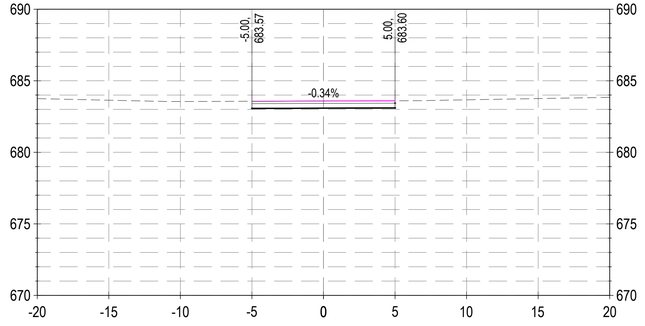
38+00

EARTHWORK AT STATION 38+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.02	6.66
FILL	0.00	0.00



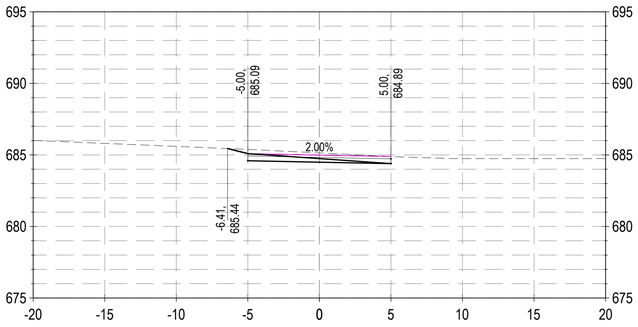
39+50

EARTHWORK AT STATION 39+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.94	7.34
FILL	0.00	0.00



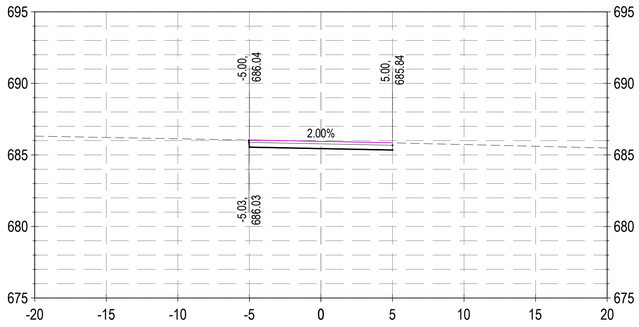
41+00

EARTHWORK AT STATION 41+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.00	9.16
FILL	0.00	0.00



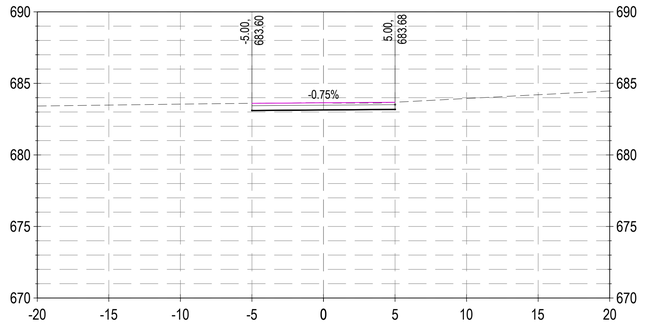
37+50

EARTHWORK AT STATION 37+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.19	6.93
FILL	0.00	0.00



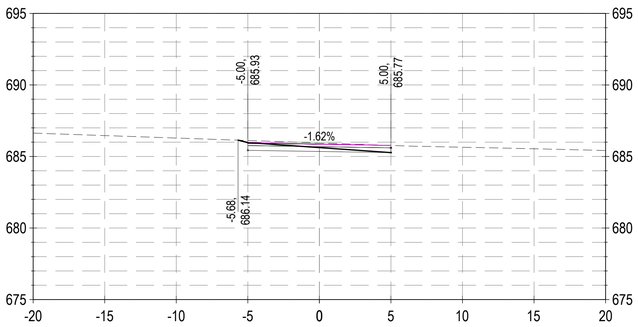
39+00

EARTHWORK AT STATION 39+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.00	6.74
FILL	0.00	0.03



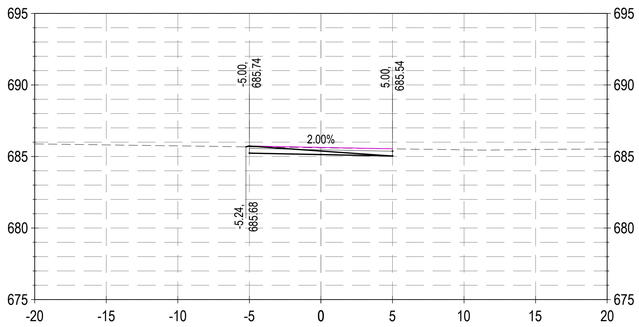
40+50

EARTHWORK AT STATION 40+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.89	4.52
FILL	0.00	0.00



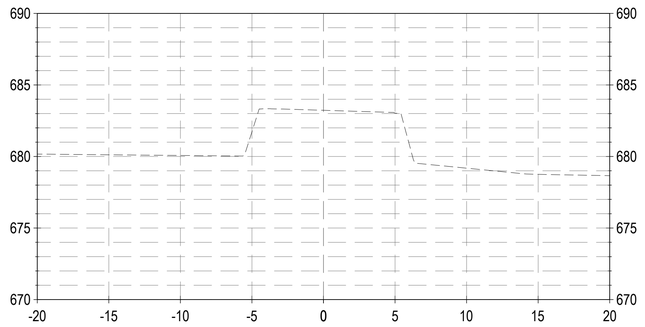
37+00

EARTHWORK AT STATION 37+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.31	5.16
FILL	0.00	0.04



38+50

EARTHWORK AT STATION 38+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.25	4.94
FILL	0.04	0.03



40+00

EARTHWORK AT STATION 40+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	0.00	2.70
FILL	0.00	0.00

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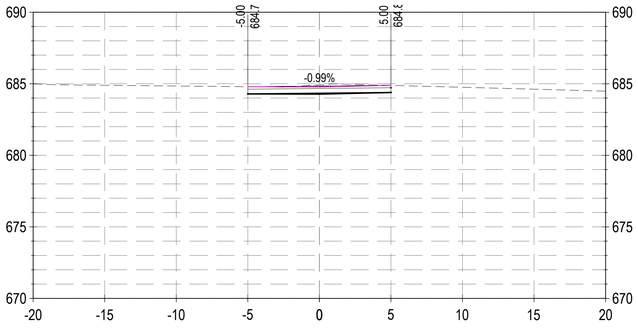
SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

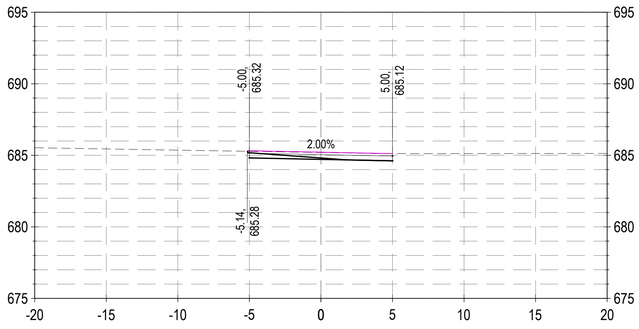
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.08



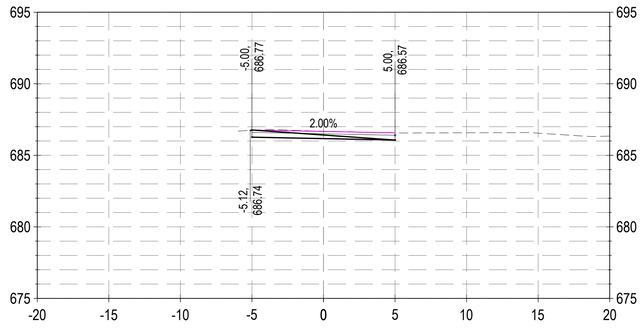
42+50

EARTHWORK AT STATION 42+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.73	9.95
FILL	0.00	0.00



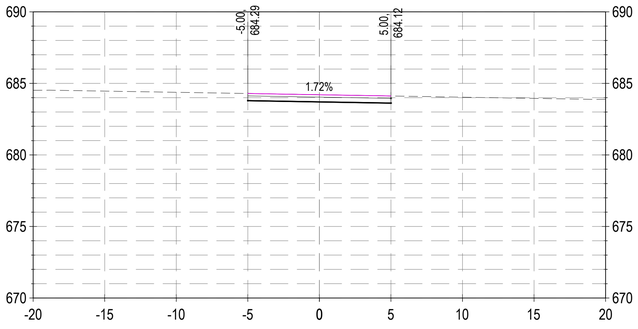
44+00

EARTHWORK AT STATION 44+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.54	7.61
FILL	0.00	0.00



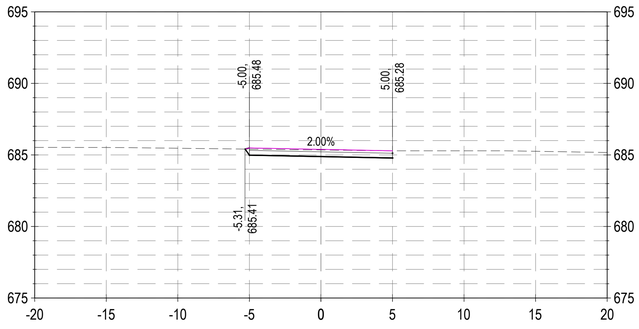
45+50

EARTHWORK AT STATION 45+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.70	4.09
FILL	0.00	0.31



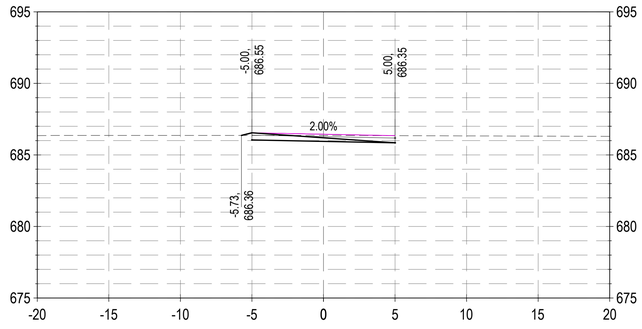
42+00

EARTHWORK AT STATION 42+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.00	9.27
FILL	0.00	0.00



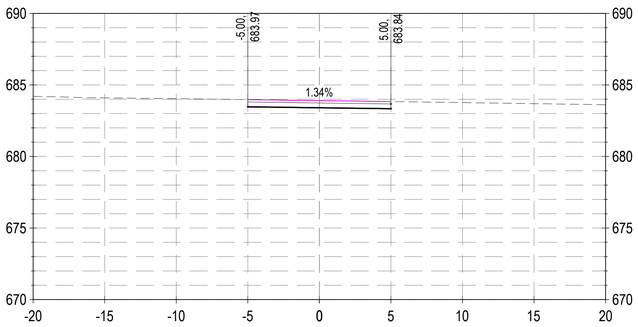
43+50

EARTHWORK AT STATION 43+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.66	7.00
FILL	0.00	0.00



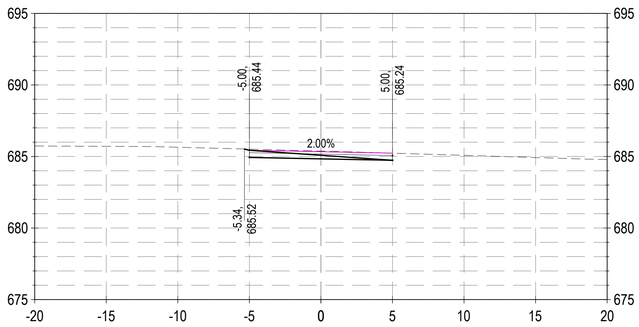
45+00

EARTHWORK AT STATION 45+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.87	5.00
FILL	0.31	0.28



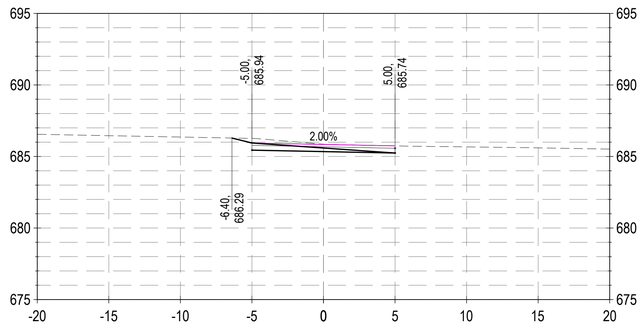
41+50

EARTHWORK AT STATION 41+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.01	9.27
FILL	0.00	0.00



43+00

EARTHWORK AT STATION 43+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.94	8.02
FILL	0.00	0.00



44+50

EARTHWORK AT STATION 44+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.53	6.58
FILL	0.00	0.00

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SEAL:

CONSTRUCTION PLANS FOR:

SHADES CREEK GREENWAY

Project No. 240305
BIRMINGHAM, AL

SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

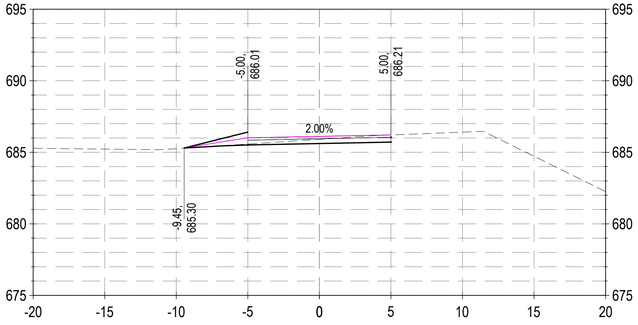
NO.	DATE:	DESCRIPTION:

PROJECT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

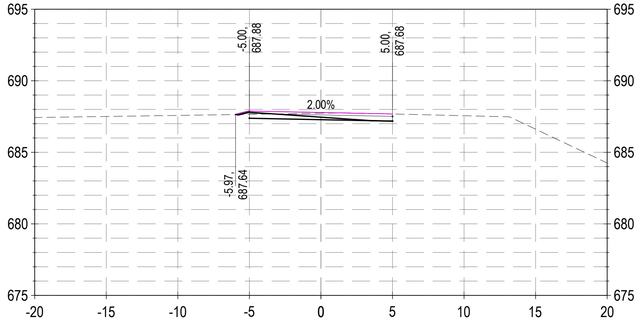
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.09



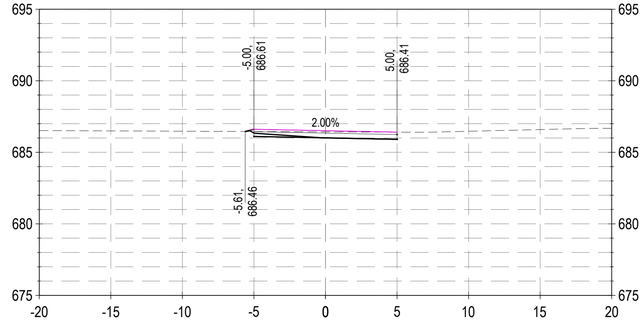
47+00

EARTHWORK AT STATION 47+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.03	4.39
FILL	0.01	0.53



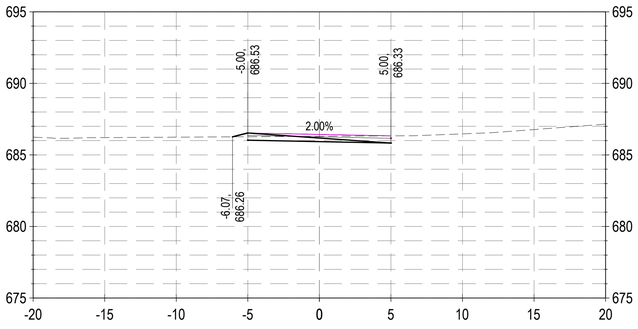
48+50

EARTHWORK AT STATION 48+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.63	5.37
FILL	0.18	0.17



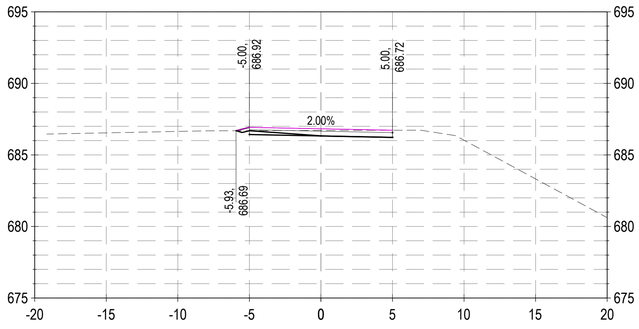
50+00

EARTHWORK AT STATION 50+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.70	4.65
FILL	0.01	1.40



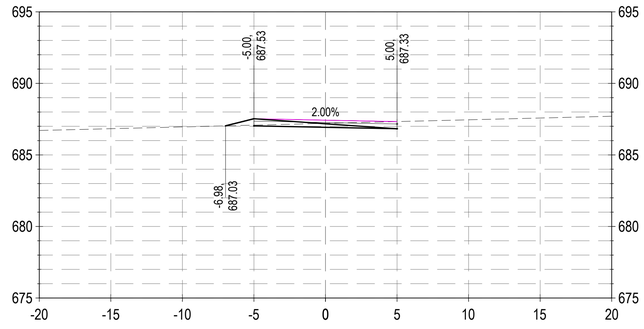
46+50

EARTHWORK AT STATION 46+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.65	3.39
FILL	0.58	0.58



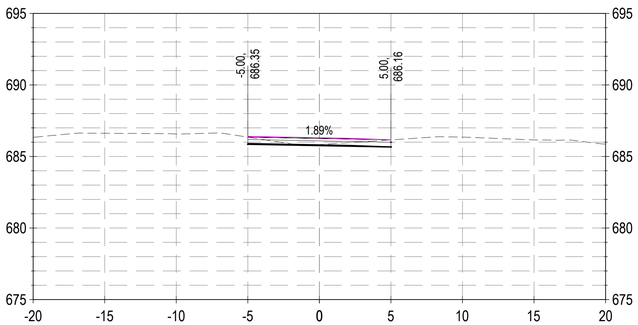
48+00

EARTHWORK AT STATION 48+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.21	8.90
FILL	0.00	0.00



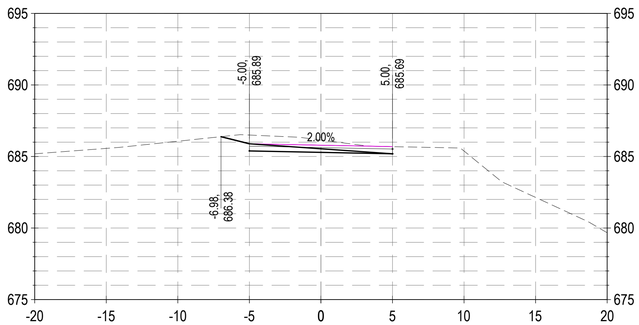
49+50

EARTHWORK AT STATION 49+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.33	3.84
FILL	1.49	1.33



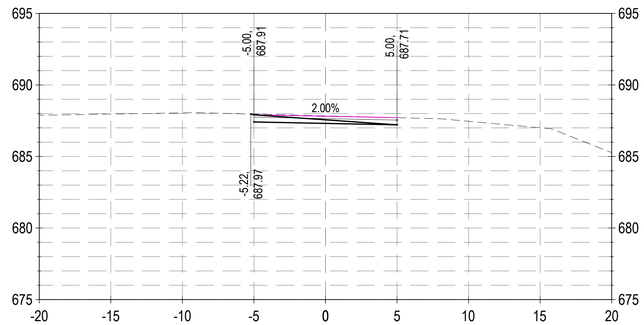
46+00

EARTHWORK AT STATION 46+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.98	4.33
FILL	0.05	0.05



47+50

EARTHWORK AT STATION 47+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	6.41	8.74
FILL	0.00	0.01



49+00

EARTHWORK AT STATION 49+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.75	5.03
FILL	0.00	0.16

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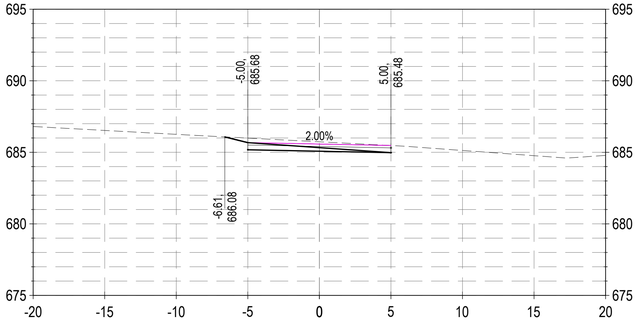
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

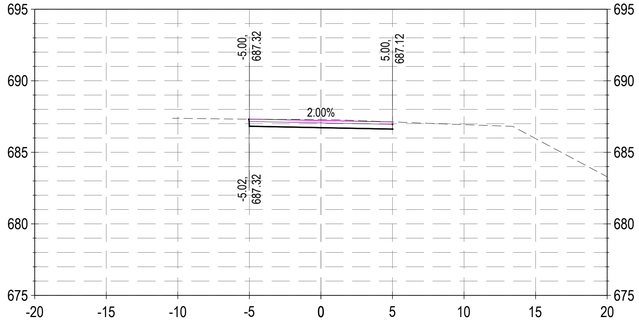
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.10



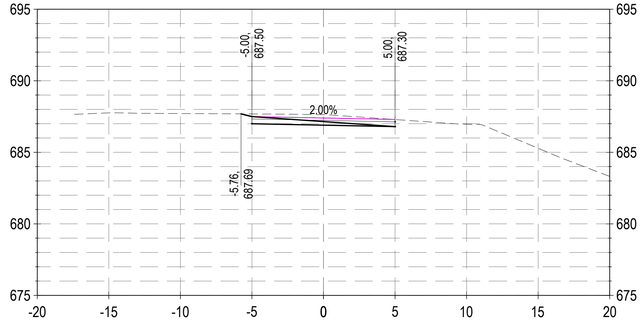
51+50

EARTHWORK AT STATION 51+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.35	6.04
FILL	0.00	0.00



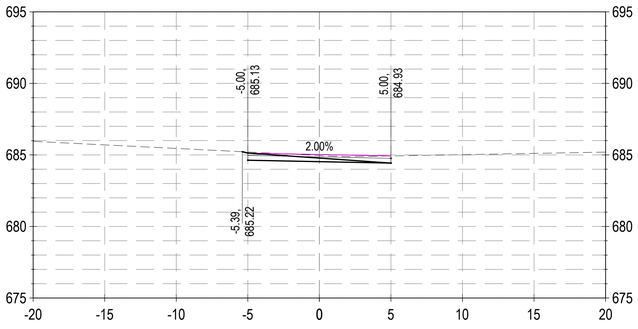
53+00

EARTHWORK AT STATION 53+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.42	7.21
FILL	0.00	0.00



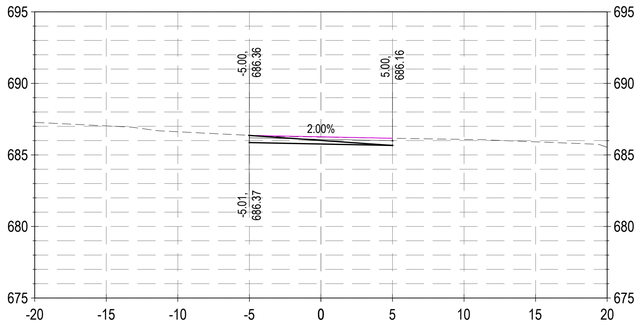
54+50

EARTHWORK AT STATION 54+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.26	6.26
FILL	0.00	0.00



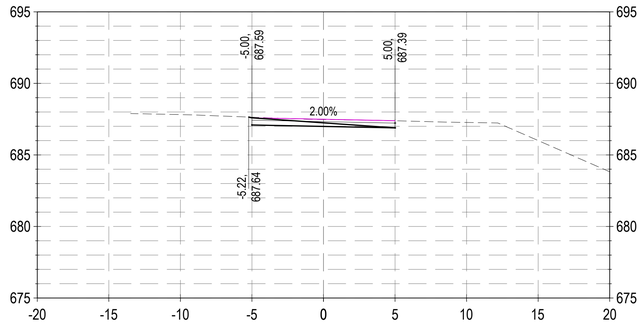
51+00

EARTHWORK AT STATION 51+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.17	6.01
FILL	0.00	0.00



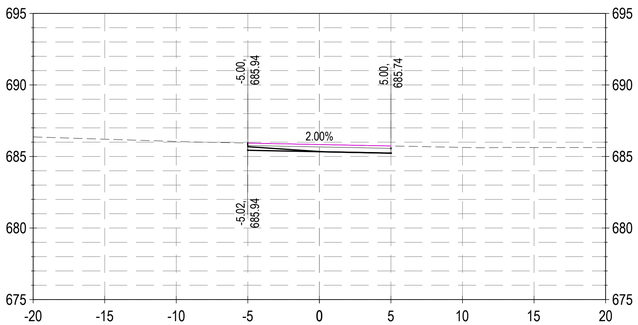
52+50

EARTHWORK AT STATION 52+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.31	6.65
FILL	0.00	0.00



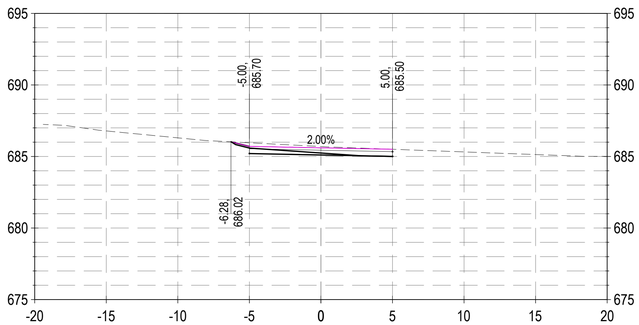
54+00

EARTHWORK AT STATION 54+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.49	4.08
FILL	0.00	0.01



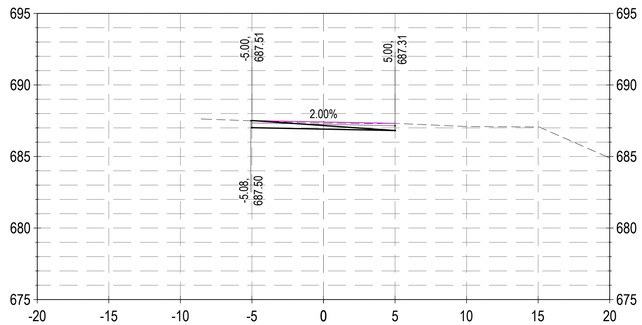
50+50

EARTHWORK AT STATION 50+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.38	7.43
FILL	0.00	0.01



52+00

EARTHWORK AT STATION 52+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.87	8.53
FILL	0.00	0.00



53+50

EARTHWORK AT STATION 53+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.94	6.81
FILL	0.01	0.01

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Project No. 240305
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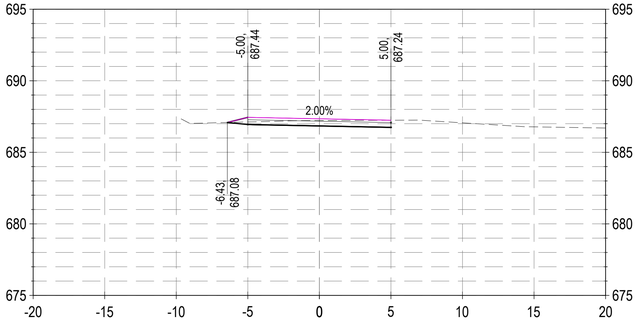
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

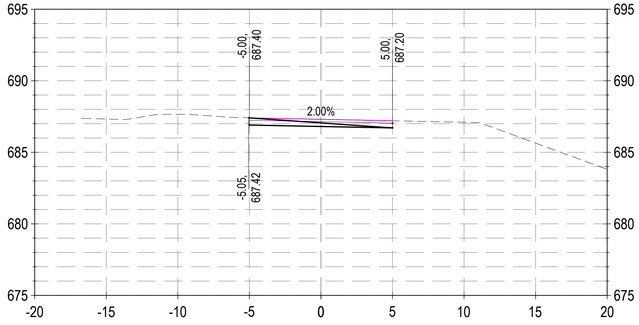
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.11



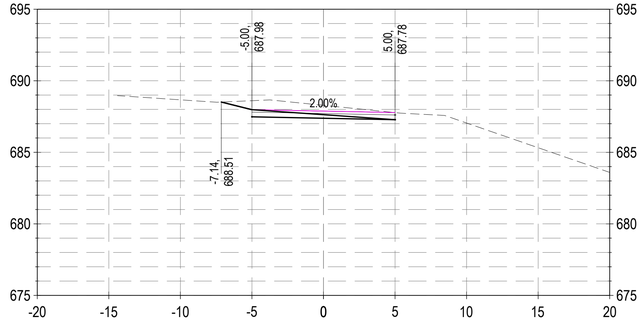
56+00

EARTHWORK AT STATION 56+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.76	5.02
FILL	0.00	0.55



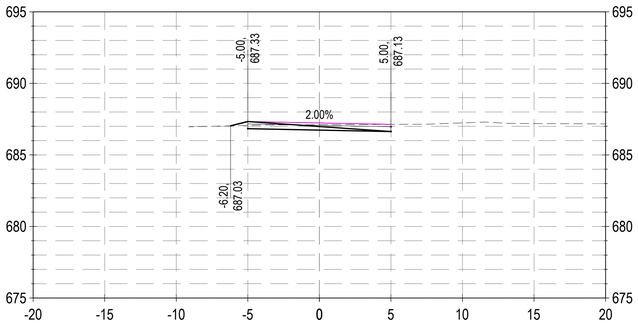
57+50

EARTHWORK AT STATION 57+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.56	7.30
FILL	0.00	0.00



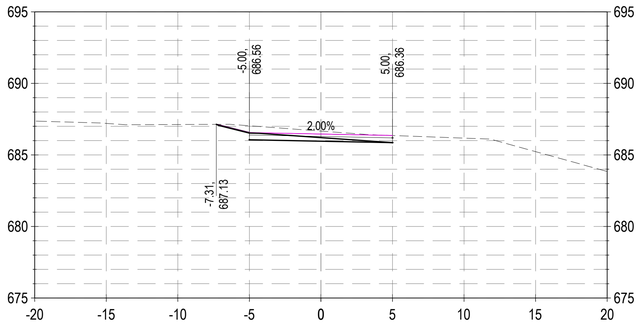
59+00

EARTHWORK AT STATION 59+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	7.10	9.46
FILL	0.00	0.13



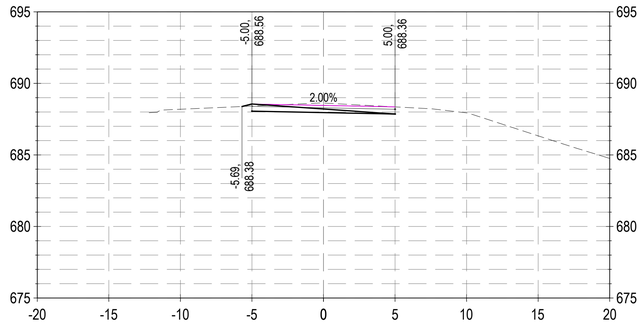
55+50

EARTHWORK AT STATION 55+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.68	3.43
FILL	0.58	0.65



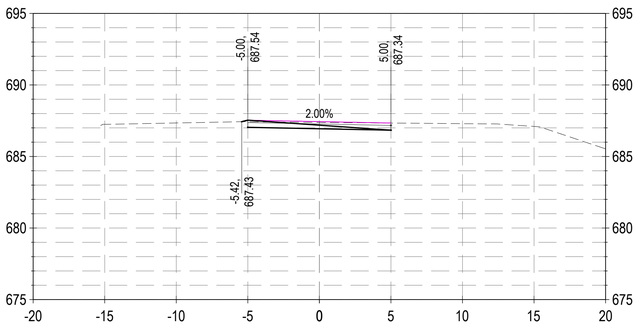
57+00

EARTHWORK AT STATION 57+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.32	10.11
FILL	0.00	0.00



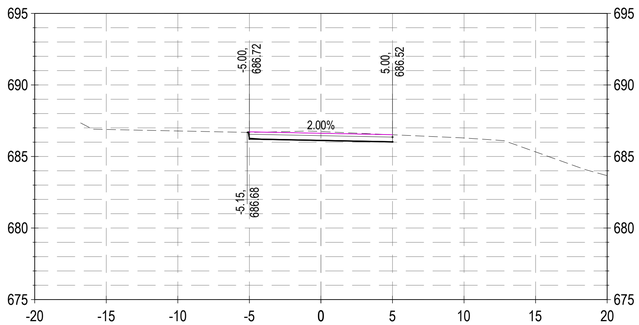
58+50

EARTHWORK AT STATION 58+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.11	9.77
FILL	0.14	0.13



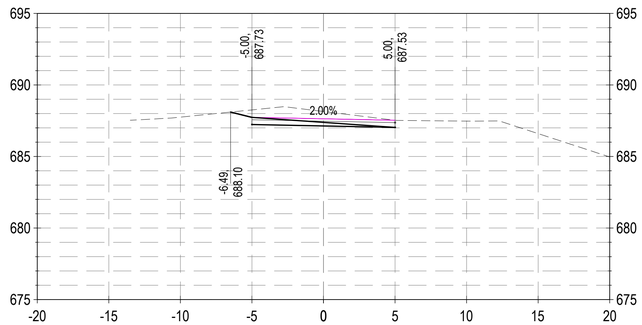
55+00

EARTHWORK AT STATION 55+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.03	5.84
FILL	0.12	0.11



56+50

EARTHWORK AT STATION 56+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.61	8.67
FILL	0.00	0.00



58+00

EARTHWORK AT STATION 58+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	7.45	9.27
FILL	0.00	0.00

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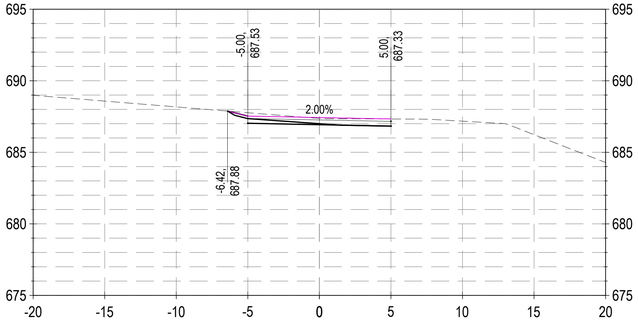
SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

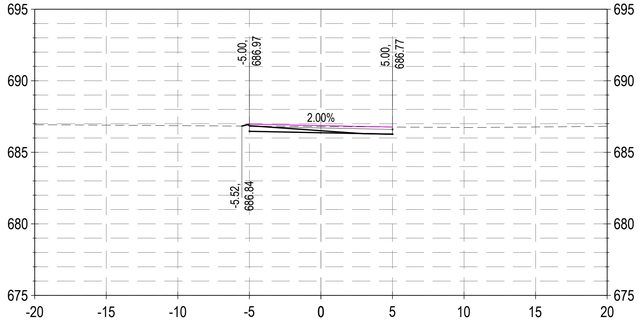
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.12



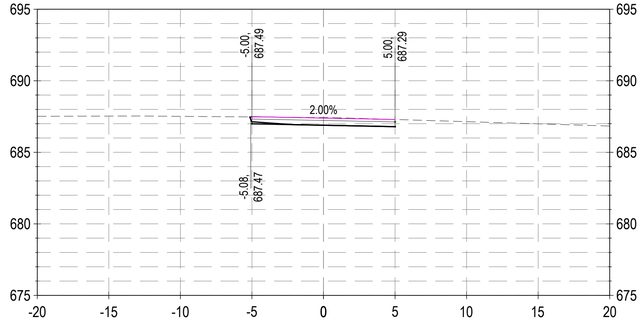
60+50

EARTHWORK AT STATION 60+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.57	12.68
FILL	0.00	0.00



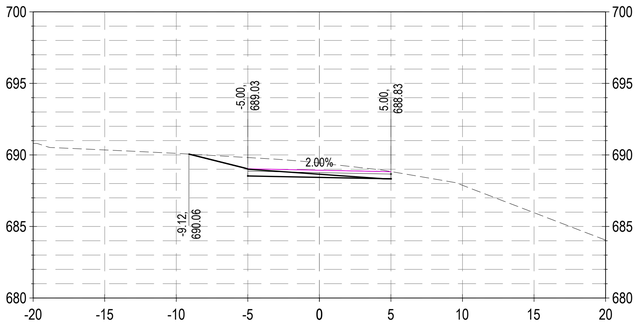
62+00

EARTHWORK AT STATION 62+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.80	4.21
FILL	0.03	0.07



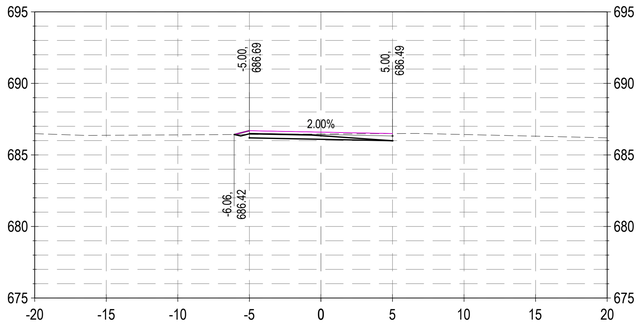
63+50

EARTHWORK AT STATION 63+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.99	7.40
FILL	0.00	0.00



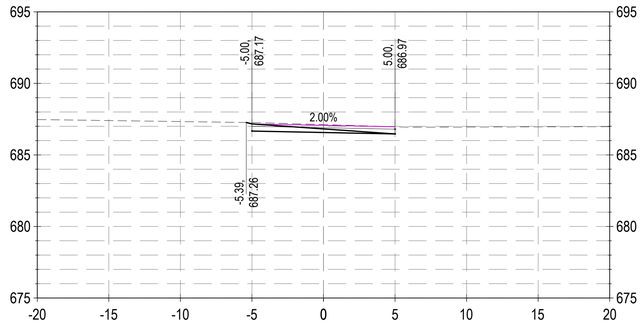
60+00

EARTHWORK AT STATION 60+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	9.11	19.93
FILL	0.00	0.00



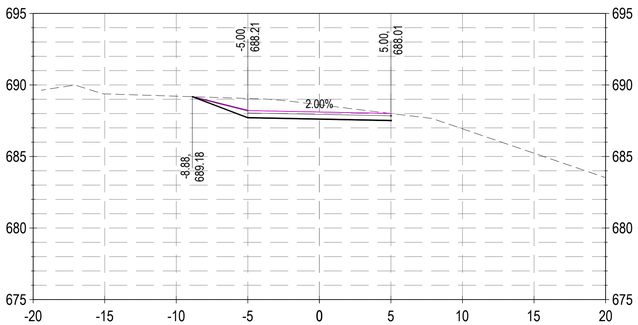
61+50

EARTHWORK AT STATION 61+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.75	9.00
FILL	0.04	0.04



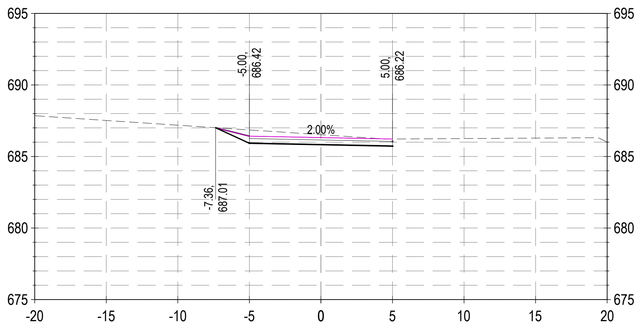
63+00

EARTHWORK AT STATION 63+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	3.01	4.42
FILL	0.00	0.17



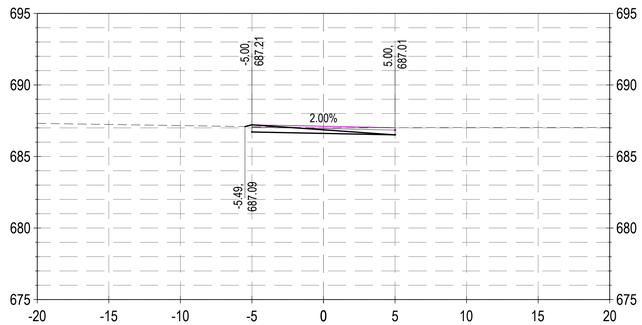
59+50

EARTHWORK AT STATION 59+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	12.38	17.97
FILL	0.00	0.00



61+00

EARTHWORK AT STATION 61+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	7.98	11.59
FILL	0.00	0.00



62+50

EARTHWORK AT STATION 62+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	1.78	4.22
FILL	0.19	0.21

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OWNER:

SEAL:

CONSTRUCTION PLANS FOR:

SHADES CREEK GREENWAY

Project No. 240305
BIRMINGHAM, AL

SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

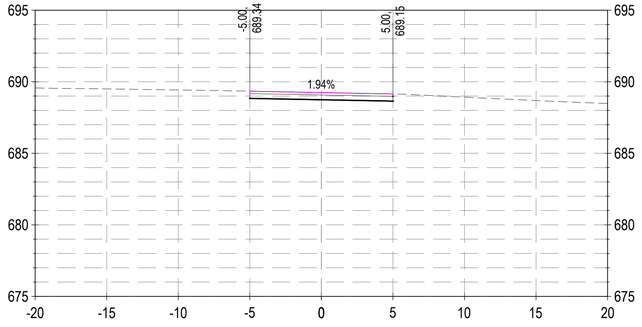
NO.	DATE:	DESCRIPTION:

PROJECT NUMBER:	240305
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

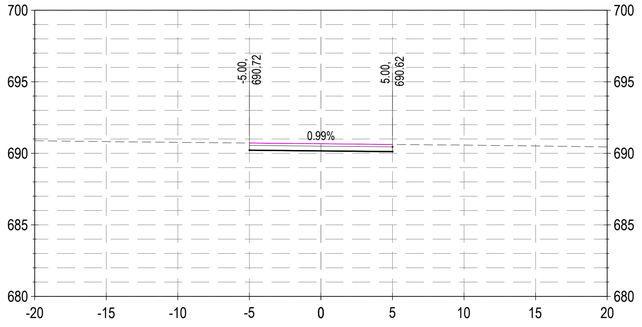
SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.13



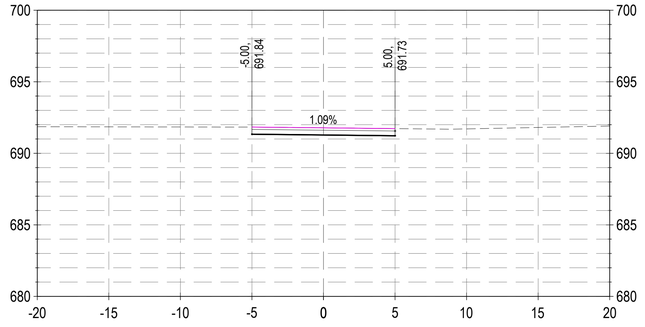
65+00

EARTHWORK AT STATION 65+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.00	9.41
FILL	0.00	0.00



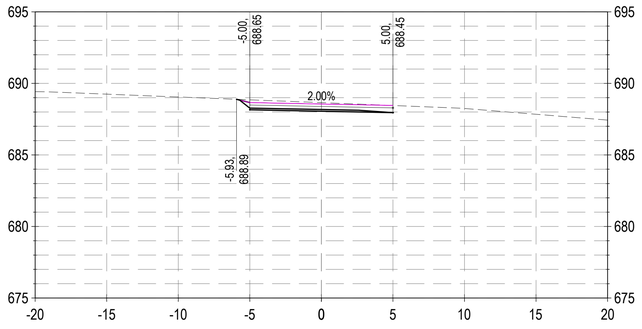
66+50

EARTHWORK AT STATION 66+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.00	9.25
FILL	0.00	0.00



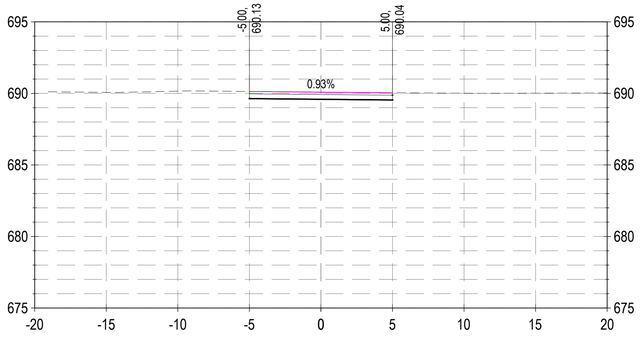
68+00

EARTHWORK AT STATION 68+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.02	9.47
FILL	0.00	0.00



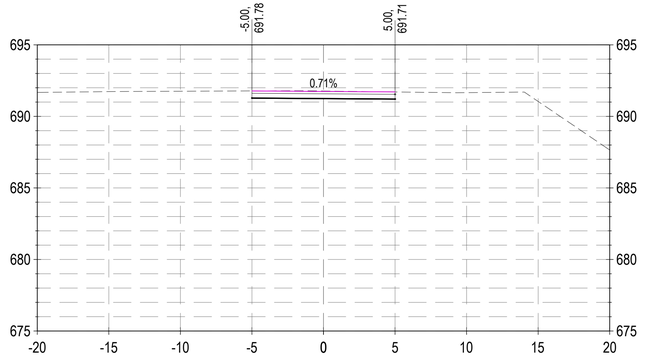
64+50

EARTHWORK AT STATION 64+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.17	6.75
FILL	0.00	0.07



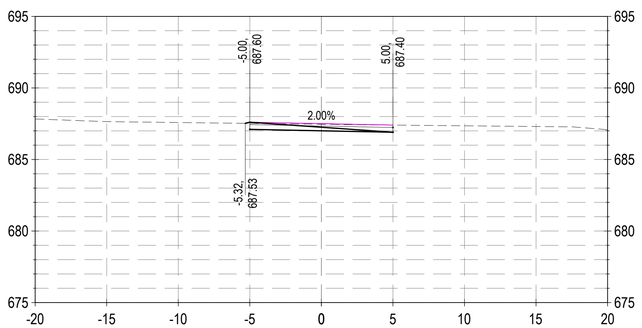
66+00

EARTHWORK AT STATION 66+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.99	9.26
FILL	0.00	0.00



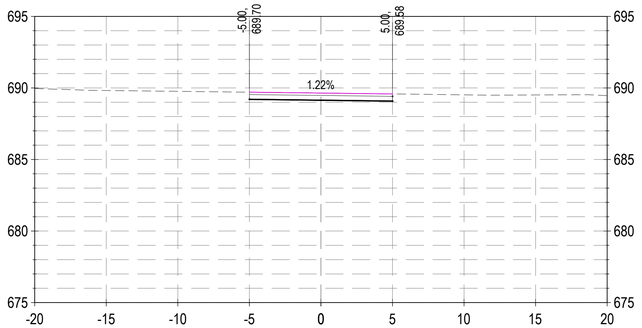
67+50

EARTHWORK AT STATION 67+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.21	9.41
FILL	0.00	0.00



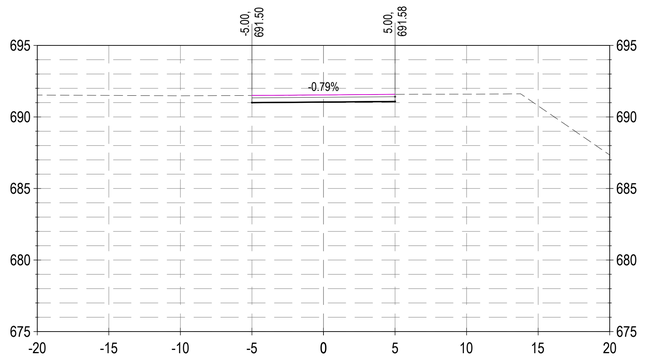
64+00

EARTHWORK AT STATION 64+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	2.11	6.57
FILL	0.07	0.07



65+50

EARTHWORK AT STATION 65+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	5.02	9.28
FILL	0.00	0.00



67+00

EARTHWORK AT STATION 67+00.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.96	9.22
FILL	0.00	0.00

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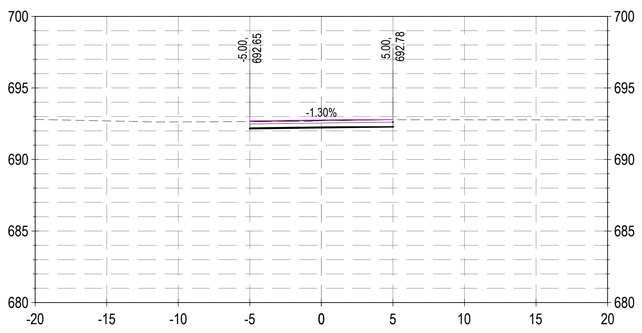
CHECKED BY:	MOK

SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.14



68+50

EARTHWORK AT STATION 68+50.00		
QUANTITY	AREA (SF)	VOLUME (CY)
CUT	4.68	8.97
FILL	0.00	0.00

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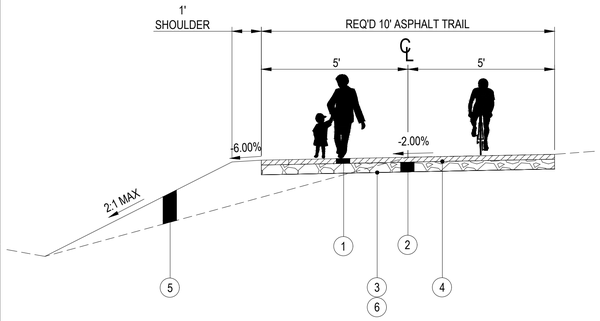
ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

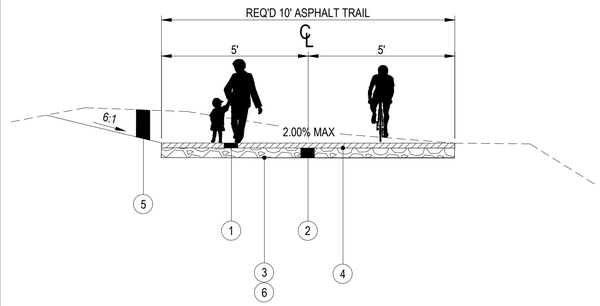
SCALE:
5' 2.5' 0 2.5' 5'
SCALE IN FEET
(1 IN = 5 FT)

SHEET TITLE:
CROSS SECTIONS

SHEET NUMBER:
C3.15



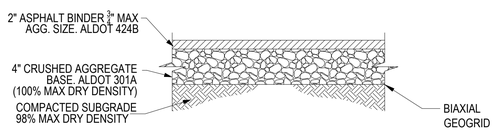
TYPICAL SECTION
STA 2+75.00 TO 4+75.00



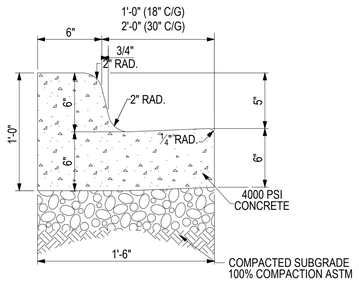
TYPICAL SECTION
STA 0+00 TO 2+75.00
STA 4+75.00 TO END

LEGEND

1	2" ASPHALT BABY BINDER $\frac{3}{4}$" MAX AGGREGATE SIZE, ALDOT 424B
2	4" CRUSHED AGGREGATE BASE ALDOT 301A
3	COMPACTED SUBGRADE 98% MAX DRY DENSITY
4	PRIME COAT
5	UNCLASSIFIED EXCAVATION/BORROW EXCAVATION
6	SEPARATION GEOTEXTILE, BIAXIAL GEOGRID (BX-1200) OR APPROVED EQUAL

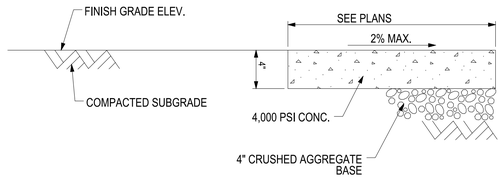


TYPICAL ASPHALT TRAIL DETAIL
NOT TO SCALE

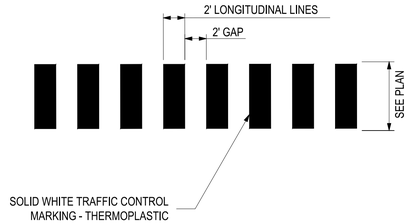


STANDARD GUTTER

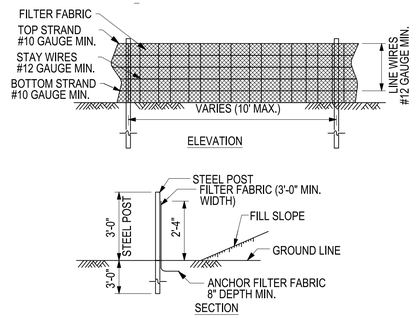
CONCRETE CURB AND GUTTER
NOT TO SCALE



CONCRETE SIDEWALK
NOT TO SCALE



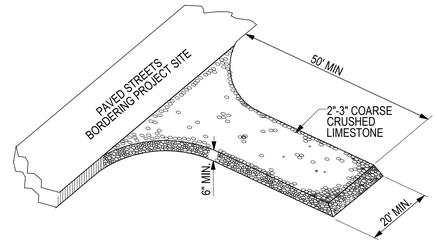
CROSSWALK DETAILS



NOTES:

1. WIRE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MIN. OF 6 LINE WIRES WITH 12" STAY SPACING.
2. FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED SECURELY TO THE WIRE.
3. CONTRACTOR SHALL PERIODICALLY REMOVE ACCUMULATED SEDIMENT, AS REQUIRED.
4. THE FILTER FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS:
   A) EOS IS NOT LARGER THAN U.S. STANDARD SIEVE NO.70
   B) GRAB STRENGTH 90-120 LB
   C) CONFORM TO ASTM D-1682 OR ASTM D-177

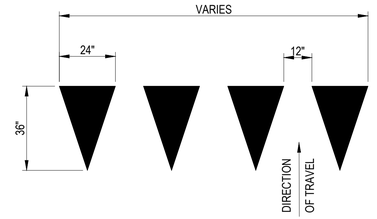
SILT FENCE
NOT TO SCALE



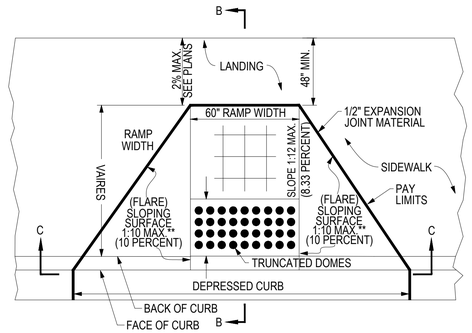
NOTE:
A GRAVEL PAD IS REQUIRED TO PROVIDE BUFFER AREA WHERE VEHICLES CAN DROP THEIR MUD AND SEDIMENT TO AVOID TRANSPORTING IT ONTO PAVED STREETS, TO CONTROL EROSION FROM SURFACE RUNOFF, AND TO HELP CONTROL DUST.

GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL STONE FROM SITE PRIOR TO SUBGRADE APPROVAL.

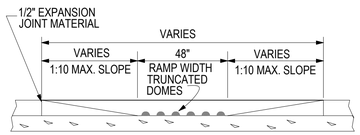
TEMPORARY CONSTRUCTION ENTRANCE
MUD/SILT APRON
NOT TO SCALE



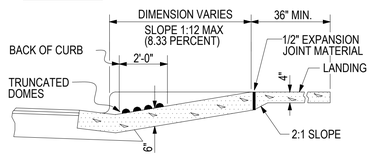
YIELD LINE MARKING
NOT TO SCALE



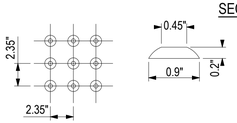
TYPE "A" CURB RAMP PLAN
NOT TO SCALE



SECTION C-C



SECTION B-B



TRUNCATED DOMES
SQUARE PATTERN
PARALLEL ALIGNMENT

RAMP NOTES

1. THE EXPANSION JOINT SHALL BE PLACED WHERE THE NEW RAMP OR SIDEWALK JOINS EXISTING PAVEMENT STRUCTURE OR AS DIRECTED BY THE ENGINEER.
2. DETECTABLE WARNING TILES MAY BE ANY PRODUCT MEETING ADA-STANDARDS AND THAT HAS BEEN APPROVED BY THE ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) WITH THE EXCEPTION THAT PRE-CAST PAVERS OR METHODS EMPLOYING THE STAMPING OF WET CONCRETE SHALL NOT BE ALLOWED. PROOF OF ACCEPTANCE OF A WARNING PRODUCT BY THE ALDOT SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO BID AND SHALL BE IN THE FORM OF EITHER AN ACCEPTANCE LETTER FROM ALDOT OR INCLUSION OF THE PRODUCT ON LIST II-25, DETECTABLE WARNING DEVICES, IN ALDOT'S MATERIALS SOURCES AND DEVICES WITH SPECIAL ACCEPTANCE REQUIREMENTS MANUAL, LATEST EDITION.
3. DETECTABLE WARNING TILES SHALL CONSIST OF RAISED TRUNCATE DOMES WITH NOMINAL DIAMETER OF 0.9 IN (23MM), A NOMINAL HEIGHT OF 0.2 IN (5MM) AND A NOMINAL CENTER TO CENTER SPACING OF 2.35 IN (60MM).
4. DETECTABLE WARNING TILES SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
5. THE COLOR OF DETECTABLE WARNING TILES SHALL BE RED OR AS DIRECTED BY THE ENGINEER.
6. THE COST OF DETECTABLE WARNING TILES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CURB RAMPS.
7. CONTRACTOR SHALL COORDINATE WITH PROJECT INSPECTOR DURING CONSTRUCTION OF HANDICAP RAMPS TO VERIFY THAT WATER WILL NOT POND IN FRONT OF RAMPS.

HANDICAP ACCESSIBLE CURB RAMP DETAILS
NOT TO SCALE

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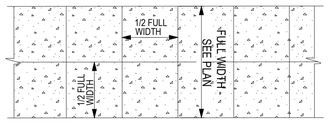
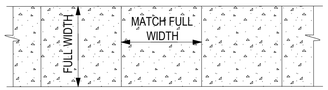
SCALE:
NOT TO SCALE

SHEET TITLE:
PROJECT DETAILS

SHEET NUMBER:
C4.00

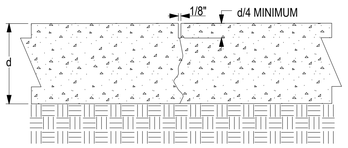


PLAN VIEW FOR WIDTHS OVER 6'



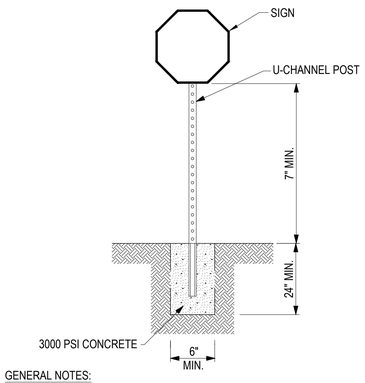
PLAN VIEW FOR WIDTHS UP TO 6'

CONCRETE SIDEWALK JOINTS



PLAIN PAVEMENT
CONTRACTION JOINT, UNDOWELED
(ALL PAVEMENTS - SHORT JOINT SPACING)

CONCRETE JOINTS
NOT TO SCALE



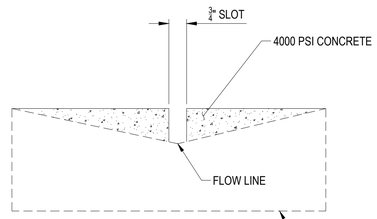
GENERAL NOTES:

1) ALL SIGNS SHALL BE BE STANDARD SIGNS (FLAT PANEL) 0.0800 ALUMINUM OR 14 GAUGE STEEL FLAT PANEL.

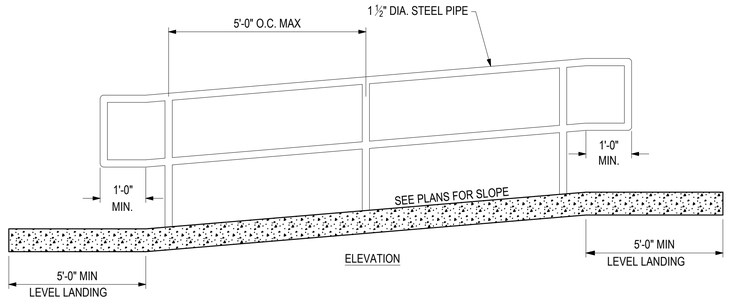
2) ALL SIGNS SHALL BE MOUNTED ON POSTS WITH GALVANIZED FASTENERS.

3) ALL STRIPING, LEGENDS, MARKINGS, AND SIGNAGE SHALL CONFORM TO THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL AND STANDARD HIGHWAY DRAWINGS AND SPECIFICATIONS, LATEST EDITION.

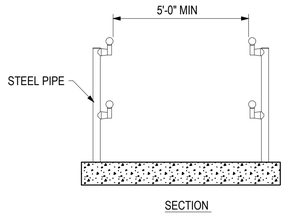
SIGN POST DETAILS
NOT TO SCALE



VALLEY GUTTER CROSSING
NOT TO SCALE



TYPICAL HANDRAIL DETAIL
NOT TO SCALE



NOTES:

1. ALL PIPE SHALL BE SCH40 STEEL PIPE

GENERAL NOTES:

DOUG LEWIS - ESTIMATOR
(850) 997-8585
ESTIMATING@NATUREBRIDGES.COM

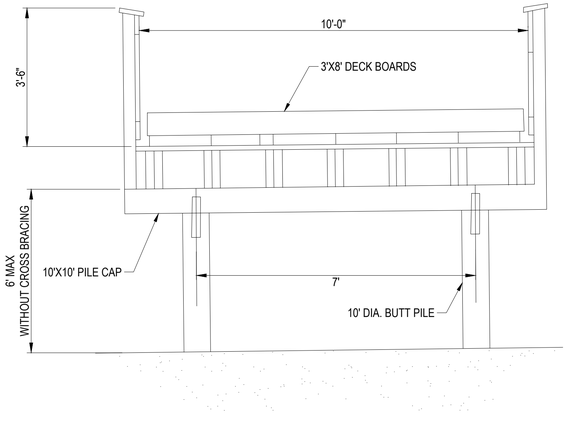
1.CONTRACTOR SHALL SUPPLY AND INSTALL WOODEN BRIDGE AS SHOWN BY NATURE BRIDGES OR APPROVED EQUAL.

2.BASIS OF DESIGN:

- BRIDGE WIDTH: 10' WIDE
- WOOD FRAME: PILE CONSTRUCTION
- DECKING: COMPOSITE WOOD DECK
- DESIGN STRESSES: IN ACCORD WITH AASHTO PED GUIDE SPEC
- UNIFORM LIVE LOAD: 90 PSF
- SAFETY RAILS: HORIZONTAL RAILS AT 4" MAX OPENING
- HANDRAILS: REQUIRED. ALL BRIDGES SHALL MEET ADA GUIDELINES
- DESIGN BUILD REQUIREMENTS: FOOTINGS AND OR ABUTMENTS TO BE DESIGNED AND STAMPED BY A STRUCTURAL ENGINEER FOR APPROVAL BY PROJECT ENGINEER.
- PAY ITEM FOR WOODEN BRIDGE SHALL INCLUDE THE COMPLETER INSTALLATION OF THE PEDESTRIAN BRIDGE AND ALL INCIDENTAL COSTS THROUGH THE DESIGN/BUILD SERVICES OF "NATURE BRIDGES" OR APPROVED EQUAL. PAYMENT FOR "WOODEN PEDESTRIAN BRIDGE" SHALL BE COMPENSATION IN FULL FOR ALL COSTS OF DESIGN, SUPPLY, FABRICATING, AND INSTALLATION.
- RATING: VEHICULAR H-10

3.MATERIALS:

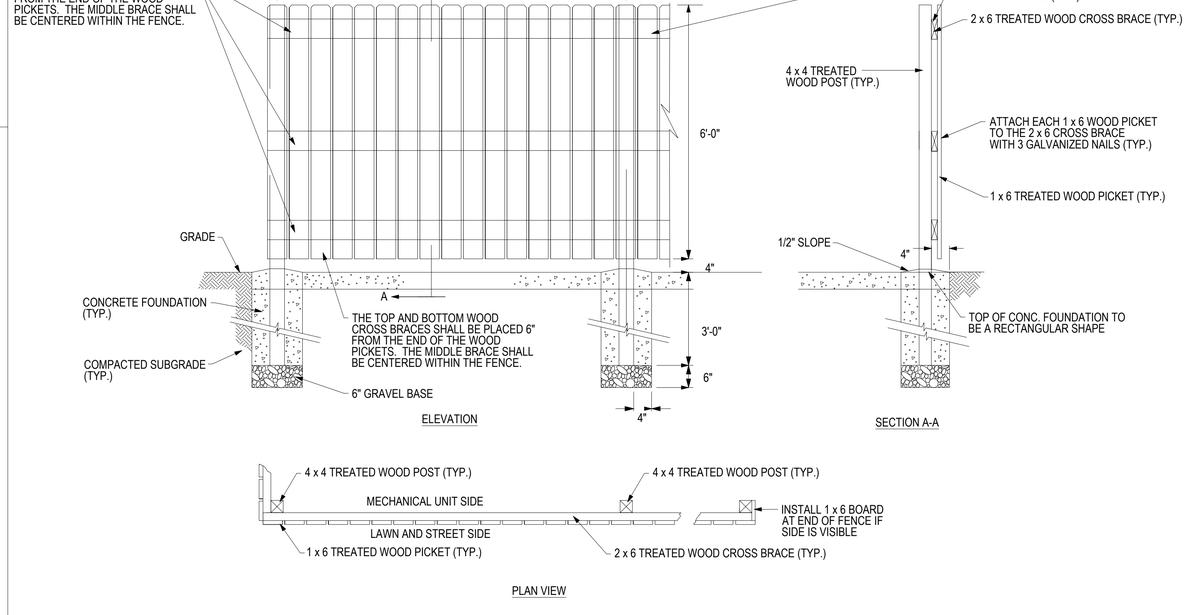
- PRESSURE TREATMENT FOR THE PILES AND PILE CAPS WILL BE CHROMATED COPPER ARSENATE (CCA). ALL OTHER WOOD COMPONENTS WILL BE TREATED WITH GROUND CONTACT COPPER AZOLE (CA-C) OR EQUAL.
- PILES - 10" DIA. PTSYP .80 CCA.
- PILE CAPS - 10"X10" #1 PTSYP .60 CCA.
- BEAMS - GLULAMINATED.
- DECKING - 3"X8" #1 PTSYP .15 CA-C
- RAILING POSTS - 4"X6" #1 PTSYP .15 CA-C
- RAILINGS/OVERLAYS - 2"X6" #1 PTSYP .15 CA-C
- RAIL CAP - 2"X8" #1 PTSYP .15 CA-C
- RAILING INFILL - 11 GA. 2"X4" VINYL COATED WIRE MESH.
- STRUCTURAL HARDWARE TO BE HOT DIPPED GALVANIZED.
- DECK SCREWS TO BE STAINLESS STEEL.



TYPICAL BOARDWALK SECTION
NOT TO SCALE

*PTSYP - PRESSURE TREATED SOUTHERN YELLOW PINE

WOODEN PEDESTRIAN BRIDGE
NOT TO SCALE



PLAN VIEW

WOOD FENCE DETAIL
NOT TO SCALE

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OWNER:

SEAL:

CONSTRUCTION PLANS FOR:

SHADES CREEK GREENWAY

Project No. 240305
BIRMINGHAM, AL

SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

NO.	DATE:	DESCRIPTION:

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ISSUE DATE:	09/24/24
DRAWN BY:	TJR
CHECKED BY:	MOK

SCALE:
NOT TO SCALE

SHEET TITLE:
PROJECT DETAILS

SHEET NUMBER:
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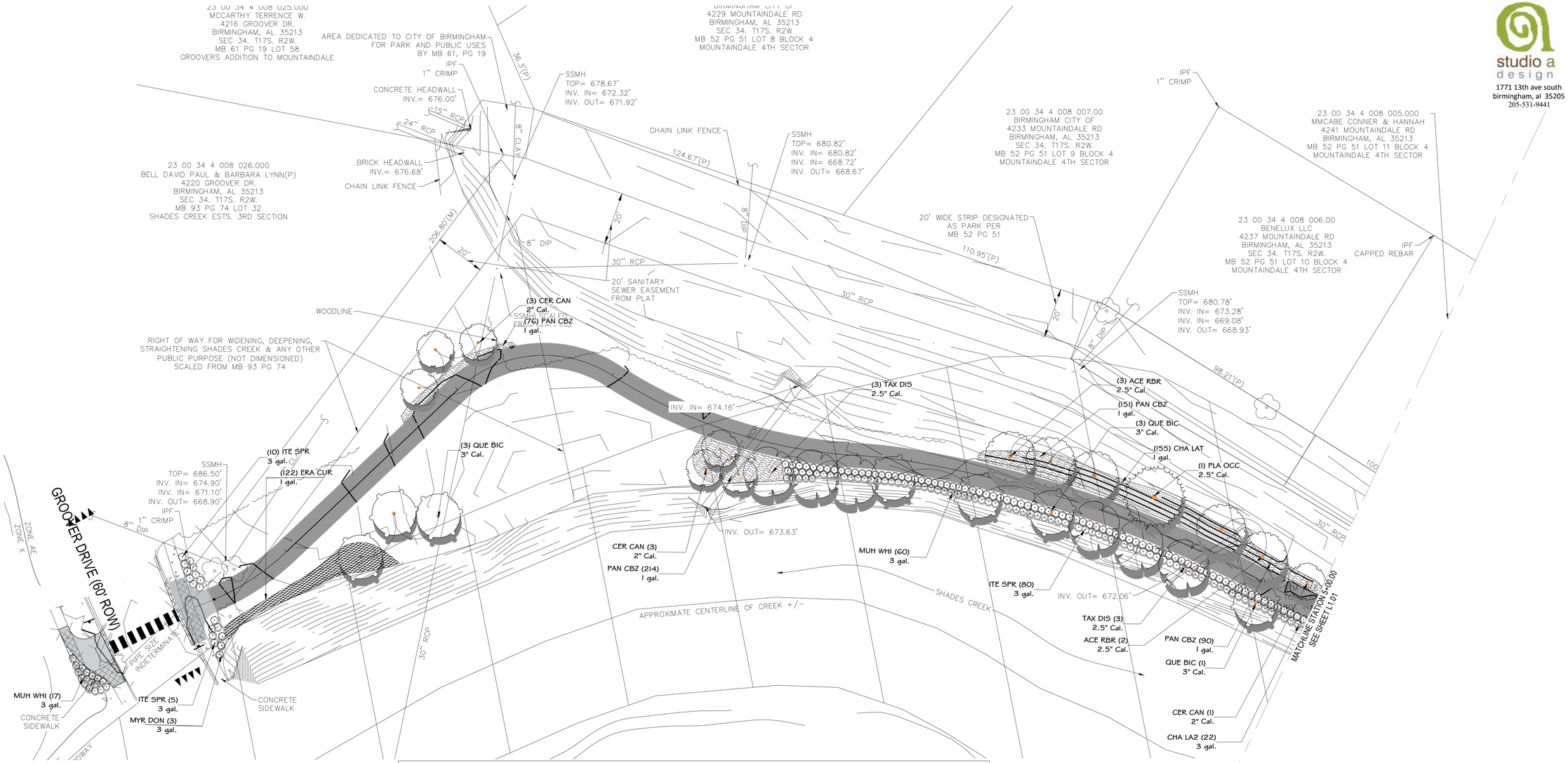

PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
TREES						
ACE RBR	Acer rubrum	Red Maple	2.5" Cal.	B&B	6	
BET RIV	Betula nigra	River Birch	3" Cal.		7	
CER CAN	Cercis canadensis	Eastern Redbud	2" Cal.	B&B	33	
PLA OCC	Platanus occidentalis	American Sycamore	2.5" Cal.	Pot	6	
QUE BIC	Quercus bicolor	Swamp White Oak	3" Cal.	B&B	22	
QUE LYR	Quercus lyrata	Overcup Oak	3" Cal.	B&B	13	
TAX DIS	Taxodium distichum	Bald Cypress	2.5" Cal.		15	
SHRUBS						
CAL AME	Callicarpa americana	American Beautyberry	3 gal.	Pot	28	
CHA LA2	Chasmanthium latifolium	Northern Sea Oats	3 gal.	Pot	53	
CLE ALN	Clethra alnifolia	Summersweet	3 gal.	Pot	19	
COR AMO	Cornus amomum	Silky Dogwood	2 gal.	Pot	13	
ITE SPR	Itea virginica 'Sprich'	Little Henry® Sweetspire	3 gal.	Pot	194	
MUH WHI	Muhlenbergia capillaris 'White Cloud'	White Cloud Muhly Grass	3 gal.	Pot	160	
MYR DON	Myrica cerifera 'Don's Dwarf'	Don's Dwarf Wax Myrtle	3 gal.	Pot	325	
OSM FRA	Osmanthus fragrans	Sweet Olive	3 gal.	Pot	7	

CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	QTY	REMARKS
GROUND COVERS							
CHA LAT	Chasmanthium latifolium	Northern Sea Oats	1 gal.	Pot	24" o.c.	155	
ERA CUR	Eragrostis curvula	Weeping Lovegrass	1 gal.	Pot	24" o.c.	309	
HEL ANG	Helianthus angustifolius	Swamp Sunflower	1 gal.	Pot	24" o.c.	31	
PAN CBZ	Panicum virgatum 'Cape Breeze'	Cape Breeze Switch Grass	1 gal.		18" o.c.	1,322	
WILD FL	Wildflower Mix	Wildflower	seed	SEED	12" o.c.	11,604	WILDFLOWER MEADOW SEED MIX BY ROUNDSTONE SEED: MIX 113: SOUTHERN MIXED GRASS MEADOW MIX @ 7.00-10.00 PLS POUNDS/ACRE.

LANDSCAPE NOTES:

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OWNER:

SEAL:

STATE OF ALABAMA
AMY G SMITH
NUMBER 39?
9-23-24
REGISTERED LANDSCAPE ARCHITECT

CONSTRUCTION PLANS FOR:

SHADES CREEK GREENWAY

Project No. 240305
Birmingham, Alabama

SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

NO.	DATE:	DESCRIPTION:

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DRAWN BY:	AGS
CHECKED BY:	MOK

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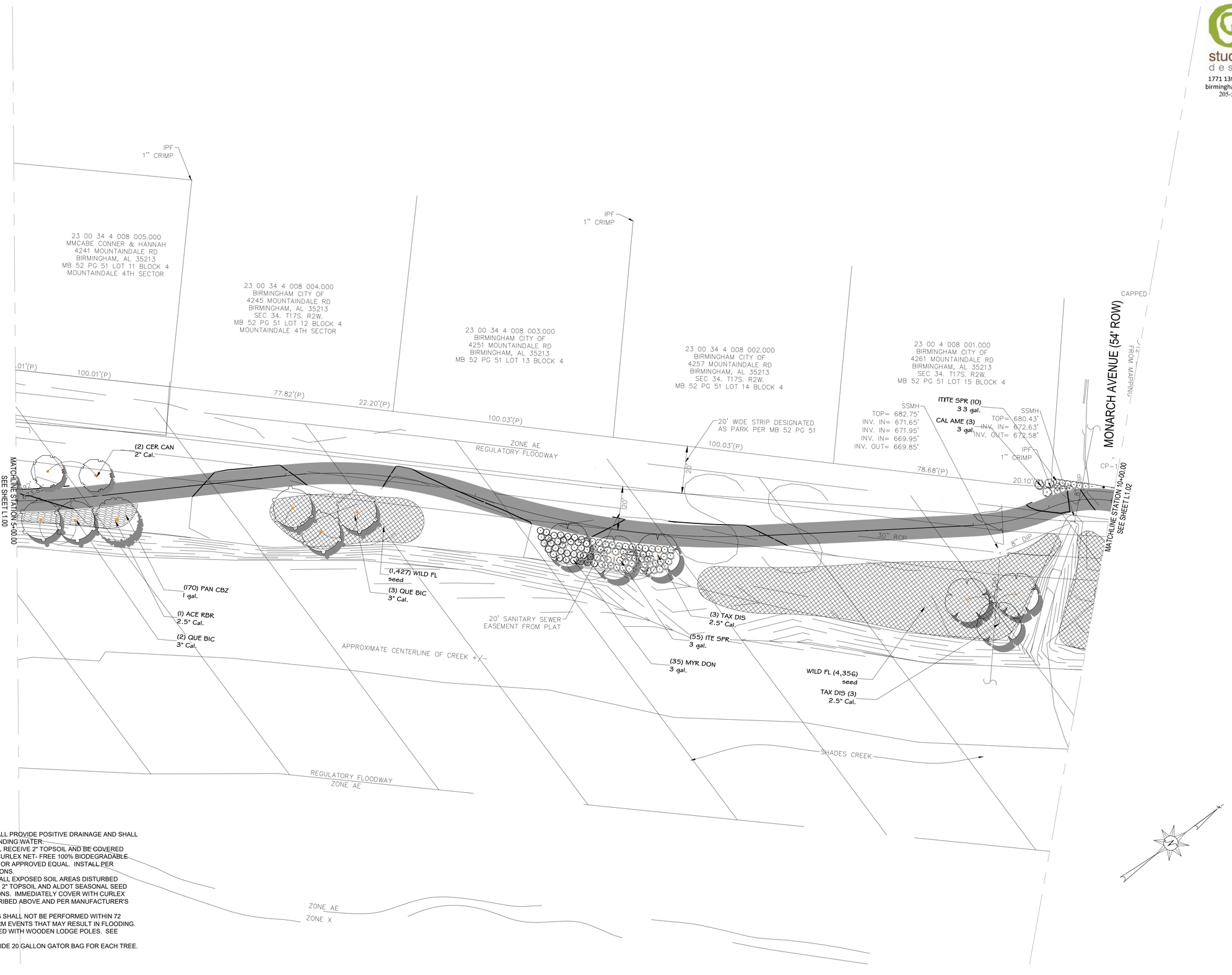
L1.00



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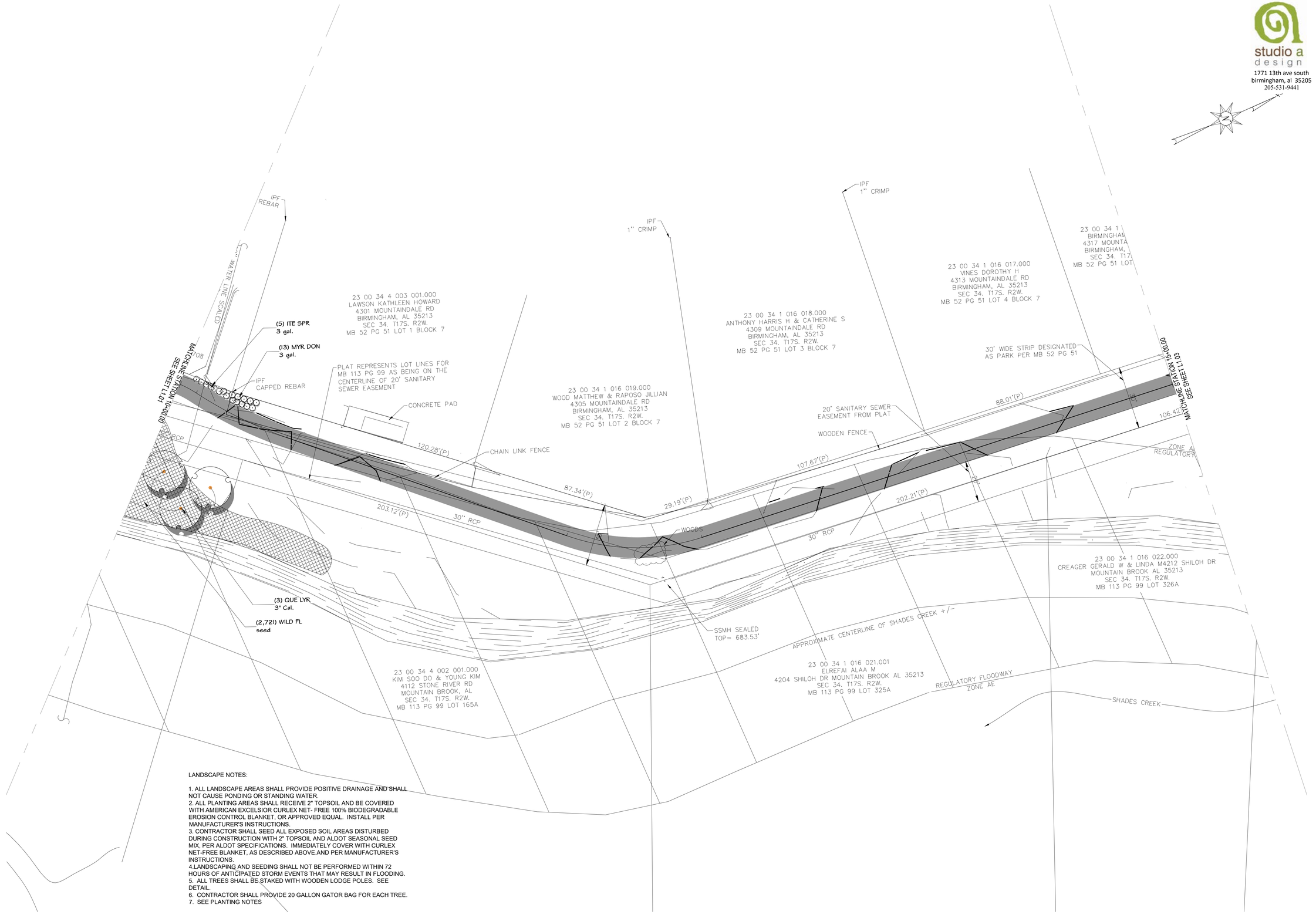

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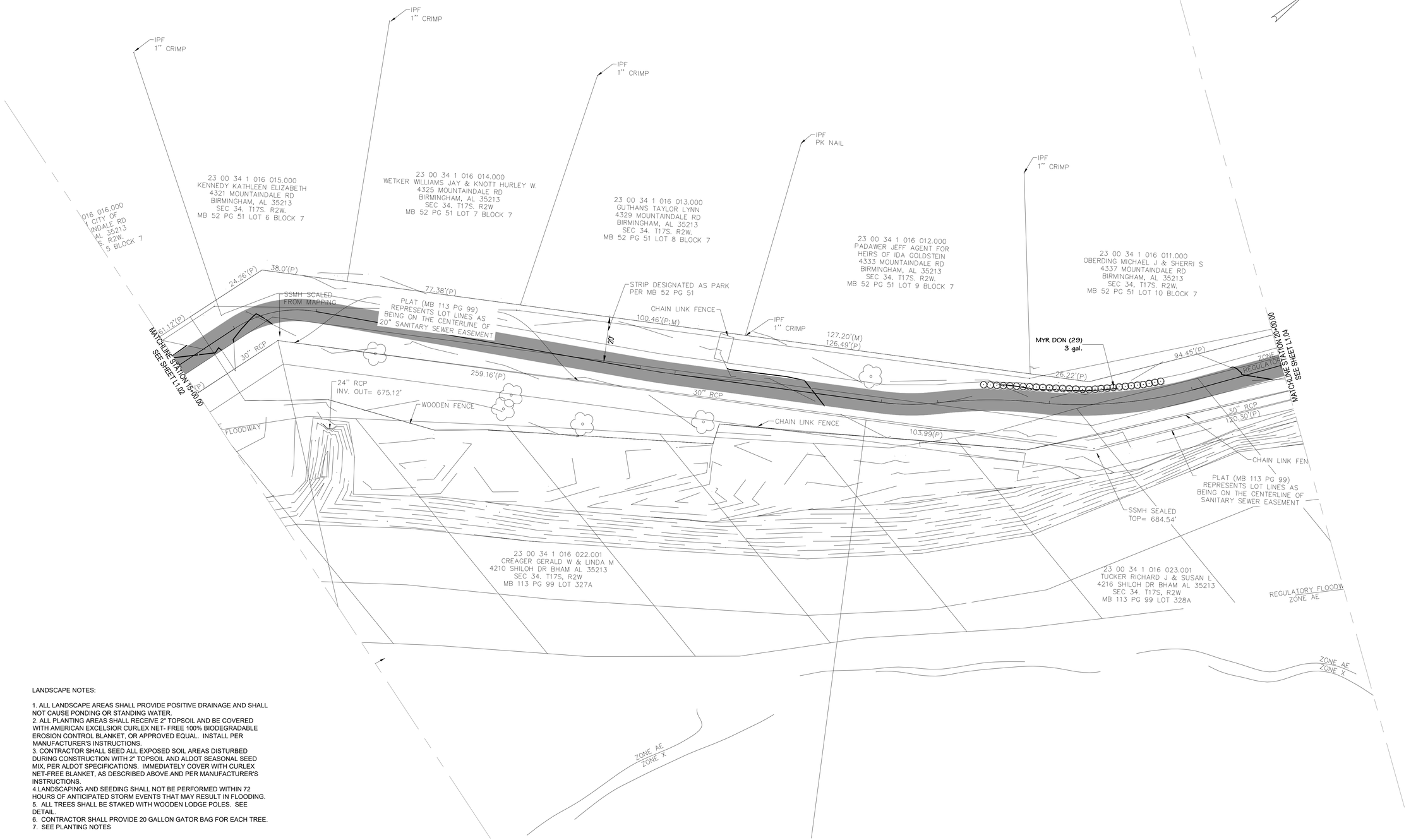

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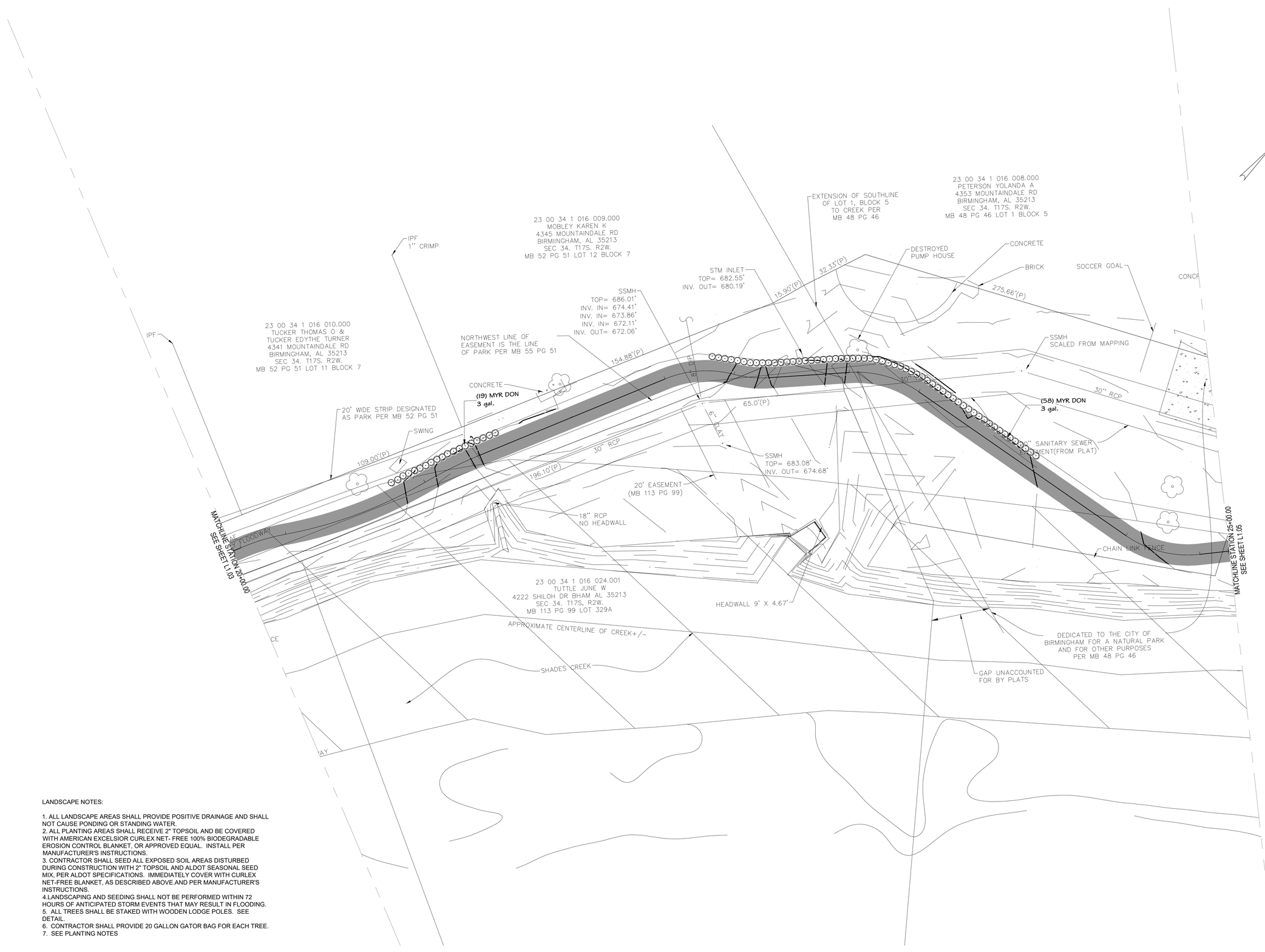

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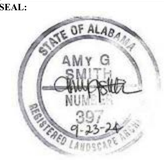

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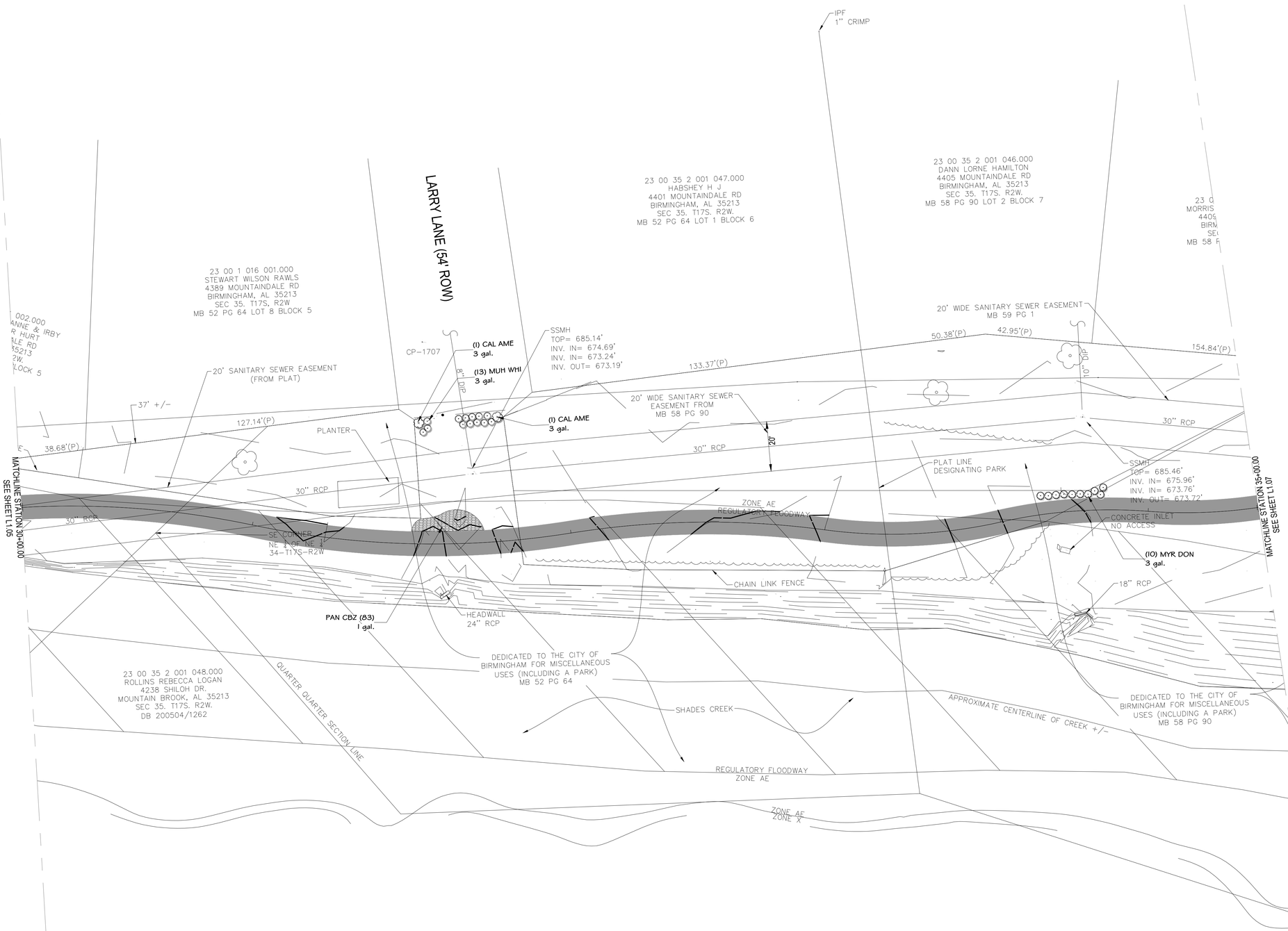

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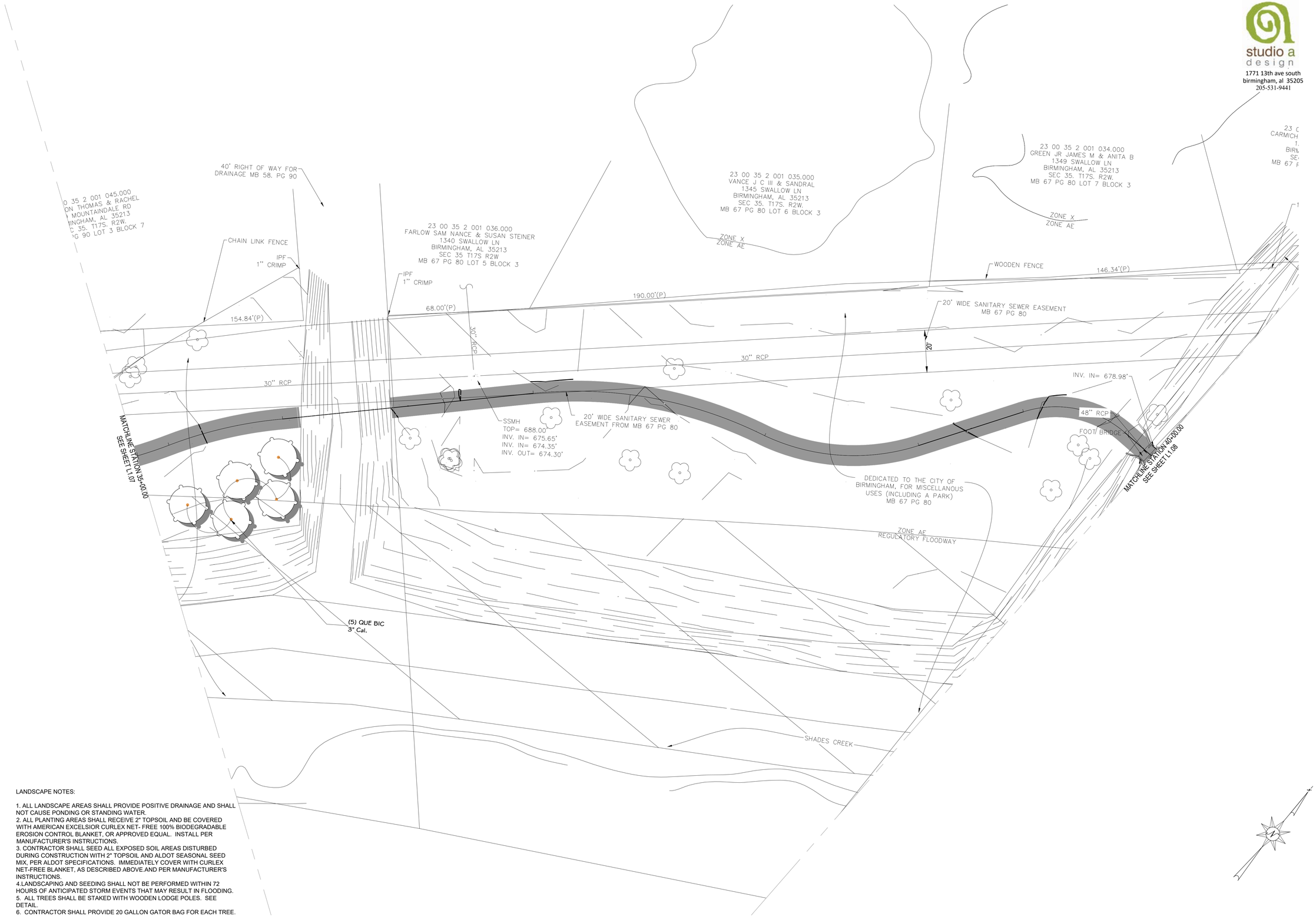

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REGISTERED LANDSCAPE ARCHITECT

CONSTRUCTION PLANS FOR:

SHADES CREEK GREENWAY

Project No. 240305
Birmingham, Alabama

SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

NO.	DATE:	DESCRIPTION:

PROJECT NUMBER:	240305
ISSUE DATE:	09/23/24
DRAWN BY:	AGS
CHECKED BY:	MOK

SCALE:
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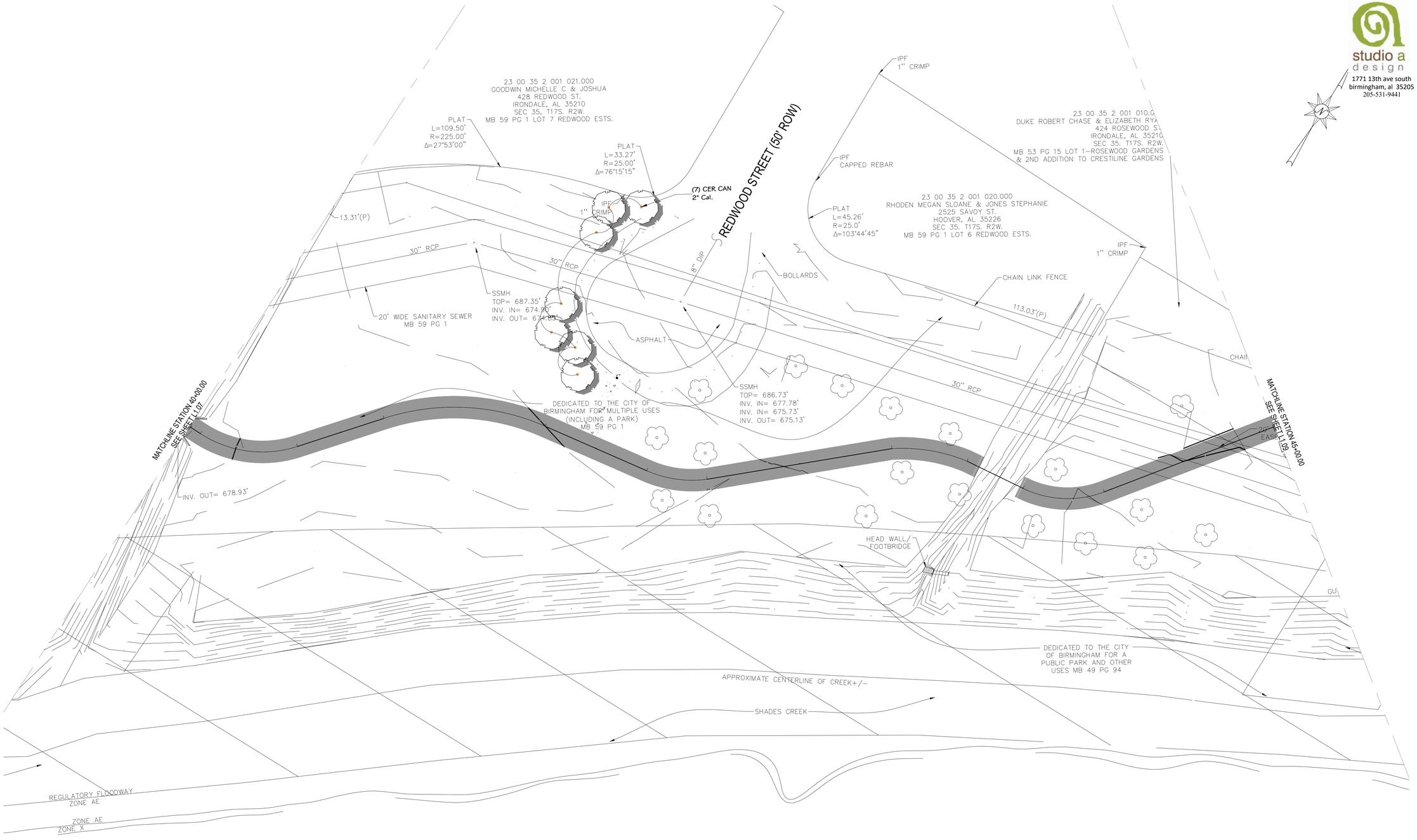
SCALE IN FEET
(1 IN = 20 FT)

SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
L1.07



LANDSCAPE NOTES:

1. ALL LANDSCAPE AREAS SHALL PROVIDE POSITIVE DRAINAGE AND SHALL NOT CAUSE PONDING OR STANDING WATER.
2. ALL PLANTING AREAS SHALL RECEIVE 2" TOPSOIL AND BE COVERED WITH AMERICAN EXCELSIOR CURLEX NET- FREE 100% BIODEGRADABLE EROSION CONTROL BLANKET, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. CONTRACTOR SHALL SEED ALL EXPOSED SOIL AREAS DISTURBED DURING CONSTRUCTION WITH 2" TOPSOIL AND ALDOT SEASONAL SEED MIX, PER ALDOT SPECIFICATIONS. IMMEDIATELY COVER WITH CURLEX NET-FREE BLANKET, AS DESCRIBED ABOVE AND PER MANUFACTURER'S INSTRUCTIONS.
4.LANDSCAPING AND SEEDING SHALL NOT BE PERFORMED WITHIN 72 HOURS OF ANTICIPATED STORM EVENTS THAT MAY RESULT IN FLOODING.
5. ALL TREES SHALL BE STAKED WITH WOODEN LODGE POLES. SEE DETAIL.
6. CONTRACTOR SHALL PROVIDE 20 GALLON GATOR BAG FOR EACH TREE.
7. SEE PLANTING NOTES

studio a design
1771 13th ave south
birmingham, al 35205
205-531-9441

DYNAMIC CIVIL SOLUTIONS
CIVIL & TRANSPORTATION ENGINEERS
2210 2nd Avenue North
Birmingham, AL 35203
Tel: (205) 358-7256
Fax: (205) 358-7258
www.dcseng.com

OWNER:

SEAL:

STATE OF ALABAMA
AMY G
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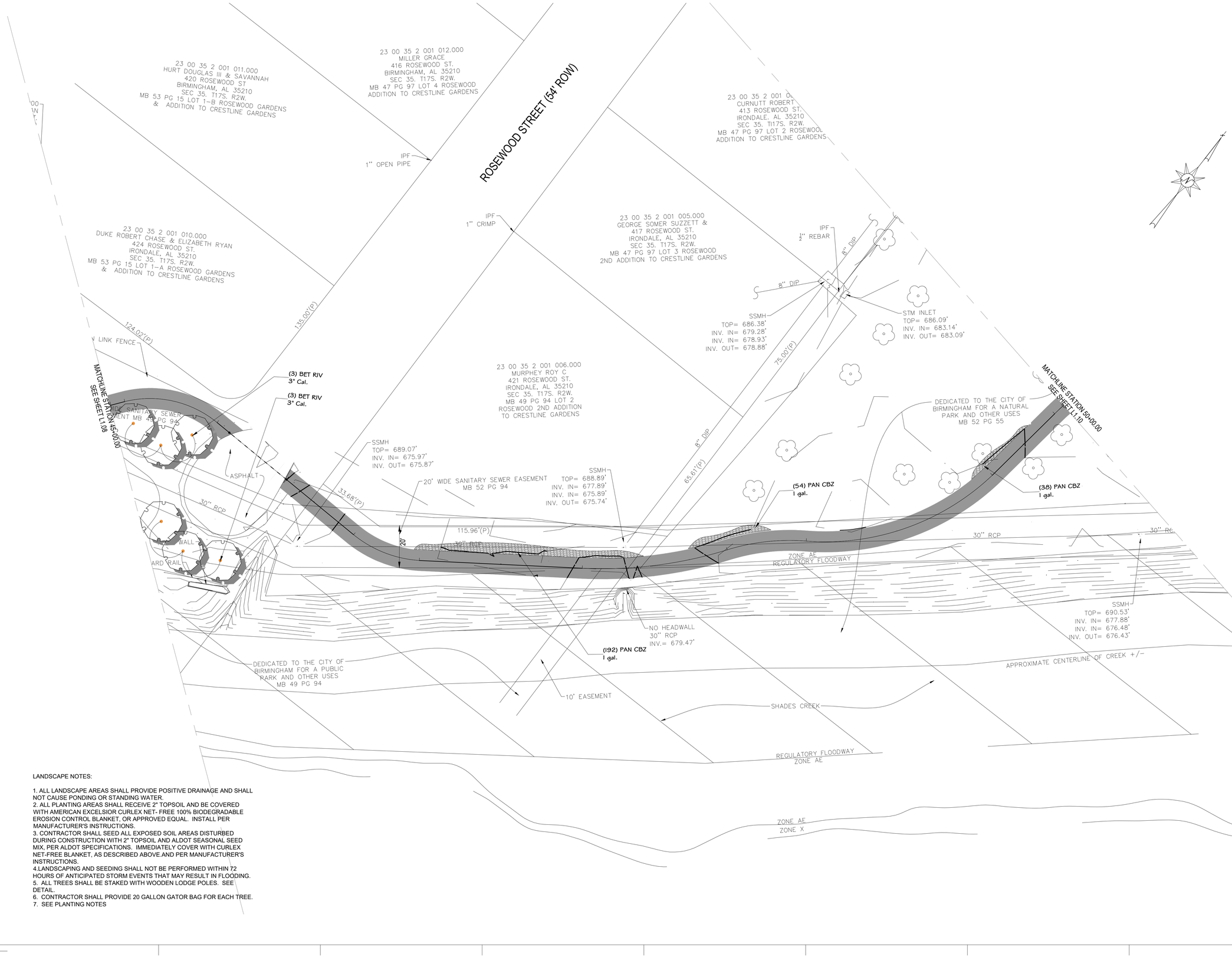

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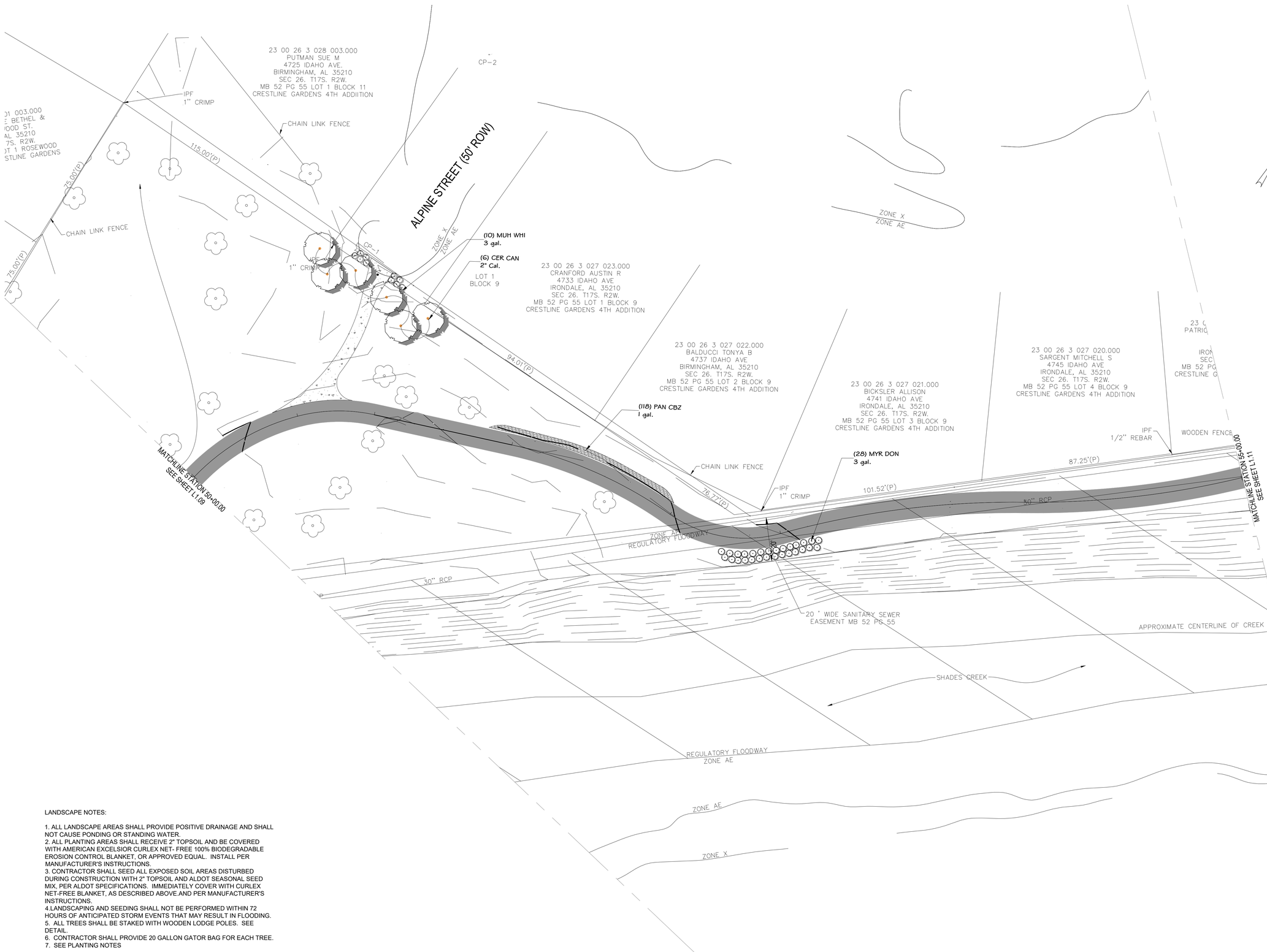

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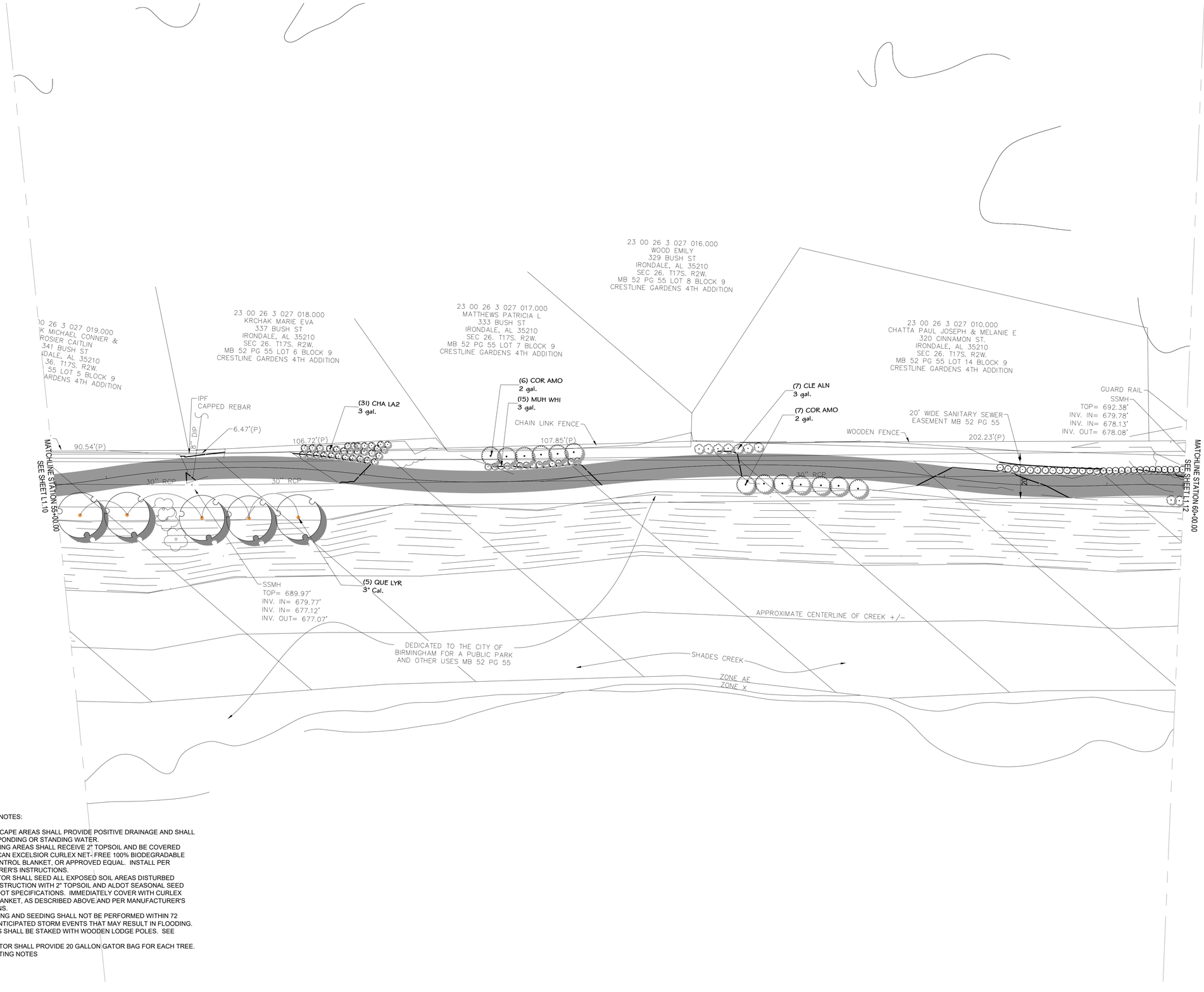

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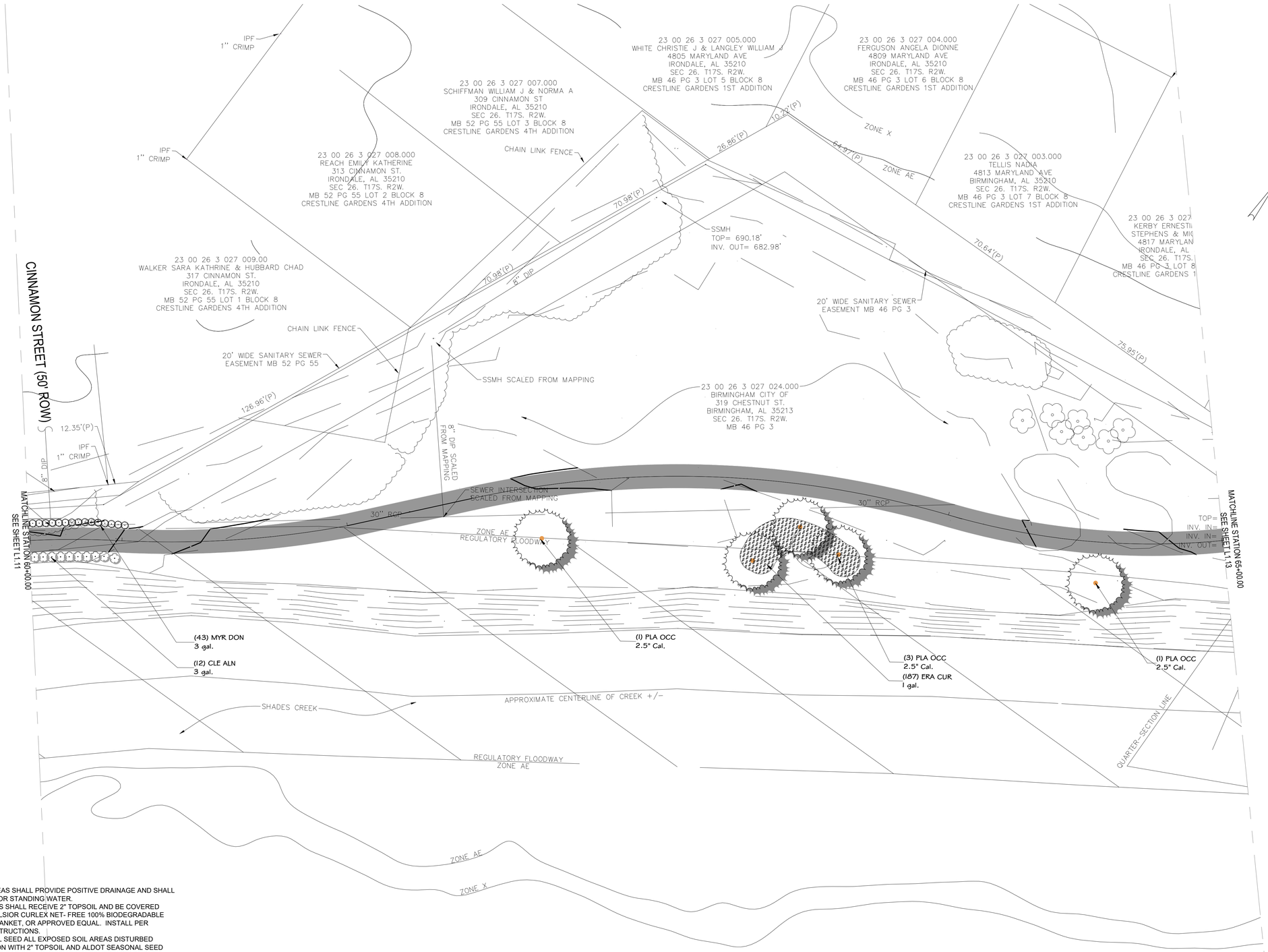

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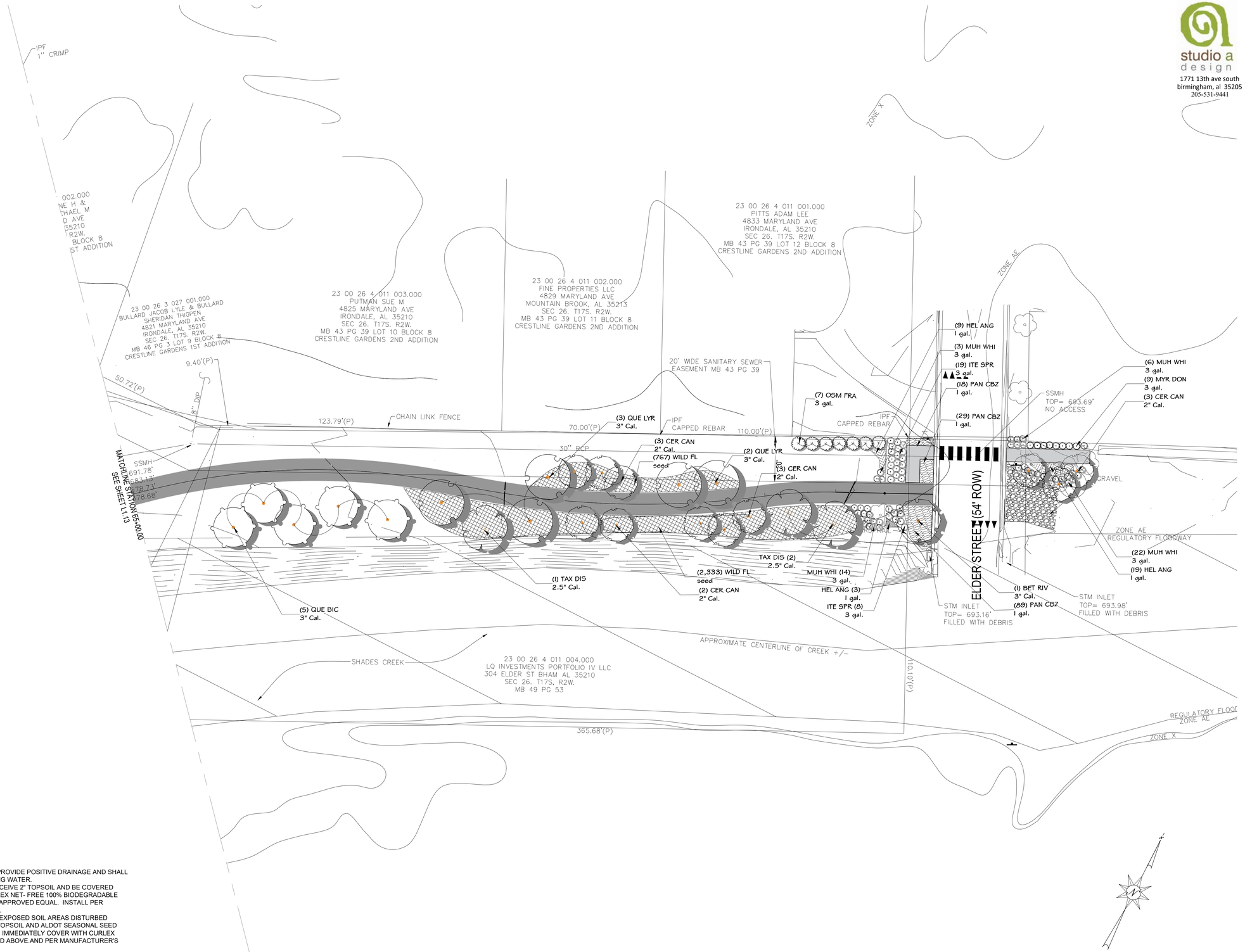

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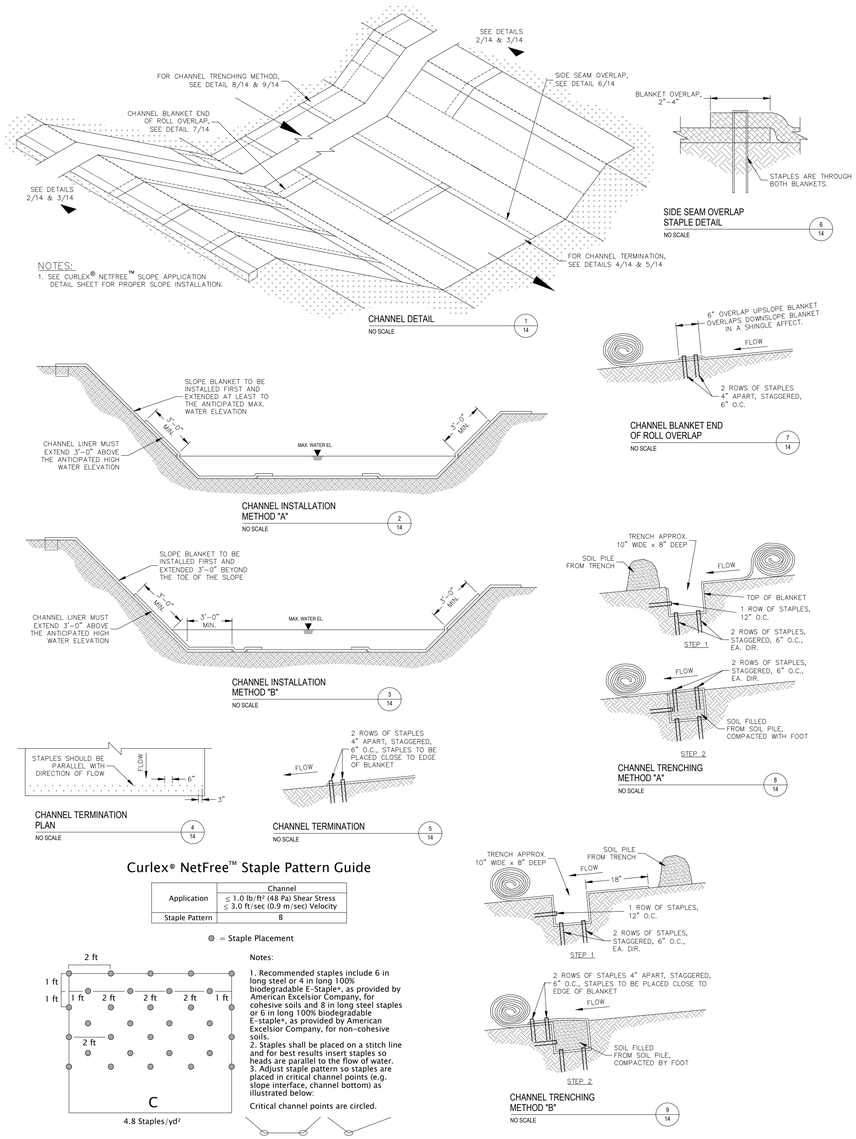
L1.13



Curlex® NetFree™ Staple Pattern Guide

	Channel
Application	≤ 1.0 lb/ft² (48 Pa) Shear Stress ≤ 3.0 ft/sec (0.9 m/sec) Velocity
Staple Pattern	B

● = Staple Placement

Notes:

1. Recommended staples include 6 in long steel or 4 in long 100% biodegradable E-Staple+, as provided by American Excelsior Company, for cohesive soils and 8 in long steel staples or 6 in long 100% biodegradable E-staple+, as provided by American Excelsior Company, for non-cohesive soils.
2. Staples shall be placed on a stitch line and for best results insert staples so heads are parallel to the flow of water.
3. Adjust staple pattern so staples are placed in critical channel points (e.g. slope interface, channel bottom) as illustrated below:

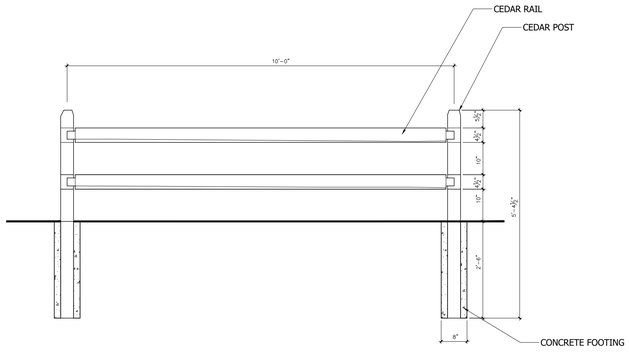
Critical channel points are circled.

AMERICAN EXCELSIOR COMPANY
ARLINGTON, TEXAS

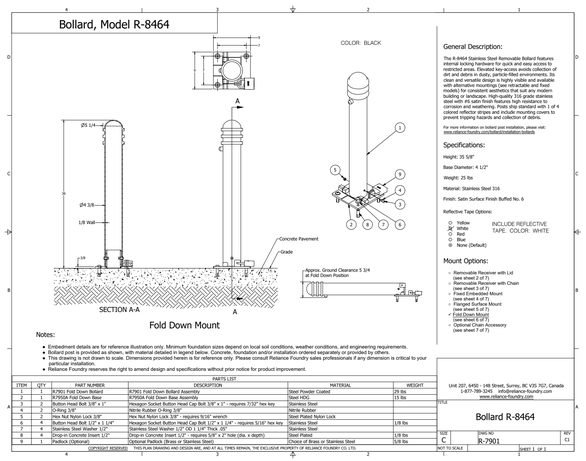
SHEET DESCRIPTION
CURLEX® NETFREE™ CHANNEL APPLICATION DETAIL

DATE	1/7/03	DRAWN BY	
SCALE	NONE	PROJECT NO.	SHEET NO. 3

A2 LANDSCAPE FABRIC INSTALLATION DETAIL
N.T.S.



A3 2-RAIL SPLIT CEDAR FENCE
3/4" = 1'-0"



Notes:

- Embedment details are for reference illustration only. Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
- Foundation design, installation, and anchor bolts are not included in bollard assembly. Foundation must be considered separately or provided by others.
- This drawing is not drawn to scale. Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
- Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

PARTS LIST

ITEM	QTY.	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT
1	1	R7901 Fold Down Bollard	R7901 Fold Down Bollard Assembly	Steel Powder Coated	29 lbs
2	1	R7950A Fold Down Base	R7950A Fold Down Base Assembly	Steel HDG	15 lbs
3	2	Button Head Bolt 3/8" x 1"	Hexagon Socket Button Head Cap Bolt 3/8" x 1" - requires 7/32" hex key	Stainless Steel	
4	2	O-Ring 3/8"	Nitrile Rubber O-Ring 3/8"	Nitrile Rubber	
5	2	Hex Nut Nylon Lock 3/8"	Hex Nut Nylon Lock 3/8" - requires 9/16" wrench.	Steel Plated Nylon Lock	
6	4	Button Head Bolt 1/2" x 1 1/4"	Hexagon Socket Button Head Cap Bolt 1/2" x 1 1/4" - requires 5/16" hex key	Stainless Steel	1/8 lbs
7	4	Stainless Steel Washer 1/2"	Stainless Steel Washer 1/2" OD x 1/16" Thick	Stainless Steel	
8	4	Drop-in Concrete Insert 1/2"	Drop-in Concrete Insert 1/2" - requires 3/8" x 2" hole (dia. x depth)	Steel Plated	1/8 lbs
9	1	Padlock (Optional)	Optional Padlock (Brass or Stainless Steel)	Choice of Brass or Stainless Steel	3/8 lbs

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General Description:

The R-8464 Stainless Steel Removable Bollard features internal locking hardware for quick and easy access to restricted areas. Elevated key-access avoids collection of dirt and debris in dusty, particle-filled environments. Its clean and versatile design is highly visible and available in multiple configurations (fixed, removable, and fold down models) for consistent aesthetics that suit any modern building or landscape. High-quality 316 grade stainless steel is ideal for high-traffic areas and provides ultra-low corrosion and weathering. Posts ship standard with 1 of 4 colored reflector stripes and include mounting covers to prevent tripping hazards and collection of debris.

For more information on bollard post installation, please visit: www.reliancefoundry.com/bollard-installation-bollards

Specifications:

Height: 35 5/8"

Base Diameter: 4 1/2"

Weight: 25 lbs

Material: Stainless Steel 316

Finish: Satin Surface Finish Buffed No. 6

Reflective Tape Options:

- ○ Yellow
- ● White
- ○ Red
- ○ Blue
- ○ None (Default)

INCLUDE REFLECTIVE TAPE. COLOR: WHITE

Mount Options:

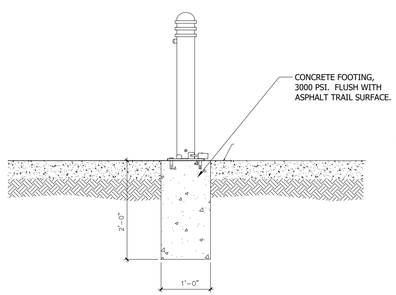
- ○ Removable Receiver with Lid (see sheet 2 of 7)
- ○ Removable Receiver with Chain (see sheet 3 of 7)
- ○ Fixed Embedded Mount (see sheet 4 of 7)
- ○ Flanged Surface Mount (see sheet 5 of 7)
- ● Fold Down Mount (see sheet 6 of 7)
- ○ Optional Chain Accessory (see sheet 7 of 7)

Unit 207, 6450 - 148 Street, Surrey, BC V3S 7G7, Canada
1-877-789-3245 info@reliance-foundry.com
www.reliance-foundry.com

TITLE: Bollard R-8464

SIZE	DWG NO.	REV
C	R-7901	C1

NOT TO SCALE | Sheet 1 of 1



A1 COLLAPSABLE BOLLARD
N.T.S.

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LANDSCAPE DETAILS

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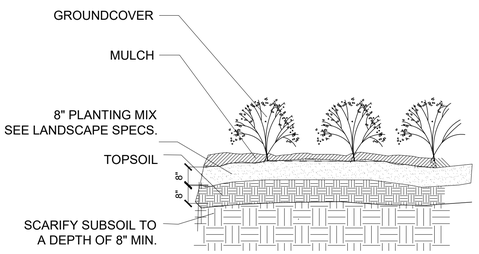
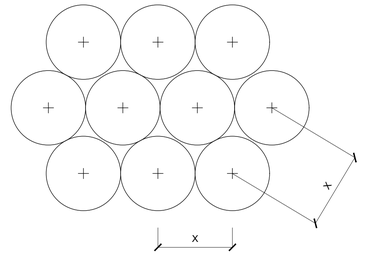
L2.01

GENERAL PLANTING NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO LOCAL CODES, ORDINANCES, AND REGULATIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE INSPECTION PRIOR TO LANDSCAPE CONSTRUCTION IN ORDER TO ACQUAINT HIMSELF WITH EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY PLANT COUNT FROM PLAN AND REPORT DIFFERENCES.
4. ALL TREE AND SPECIMEN PLANT MATERIAL SHALL BE LOCATED BY THE CONTRACTOR AT APPROVED NURSERIES OR APPROVED PRIOR TO BIDDING.
5. ALL PLANT MATERIALS ARE SUBJECT TO APPROVAL OR REFUSAL BY THE LANDSCAPE ARCHITECT AT THE JOB SITE.
6. CONTRACTOR SHALL LAYOUT TREES AND BED LINES FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO PLANTING. A MINIMUM 24 HOUR NOTICE SHOULD BE GIVEN AND ANTICIPATED BY THE CONTRACTOR FOR THIS REVIEW.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR GETTING APPROVAL BY THE OWNER/ LANDSCAPE ARCHITECT, OF ALL SUBGRADE GRADING PRIOR TO TOPSOIL AND OR MULCH BEING PLACED IN THE PLANT BED.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 3% POSITIVE DRAINAGE IN ALL PLANT BEDS.
9. PLANTS SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM INJURY, INSECTS AND DISEASES. PLANTS SHALL EQUAL OR SURPASS QUALITY AS DEFINED IN THE CURRENT ISSUE OF NURSERY "AMERICAN STANDARDS FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERYMEN, INC.
10. ALL PLANT MATERIAL SHALL BE BALLED AND BURLAPPED OR CONTAINER
11. CONTRACTOR MAY UTILIZE TOPSOIL AS FOLLOWS:
    - ☐ STOCKPILED TOPSOIL AT SITE, TO BE TESTED AND AMMENDED AS REQUIRED BELOW.
    - ☒ IMPORTED TOPSOIL, TESTED AND AMMENDED AS REQUIRED BELOW.
12. TOPSOIL SHALL BE TESTED AT A SOIL TESTING LABORATORY. SUBMIT SOIL TEST REPORT TO LANDSCAPE ARCHITECT PRIOR TO DISTRIBUTION OF ANY TOPSOIL. SOIL SHALL BE AMMENDED AS NOTED IN THE SOIL TEST TO MEET THE FOLLOWING REQUIREMENTS:
    1. PH 5.0 TO 7.0
    2. Organic Matter- 5% to 10%
    3. Coarse Sand- 50% to 70%
    4. Silt - less than 30%
    5. Clay-10% to 25%
    6. Permeability Rate of 5 X 10 (-3) centimeters or greater at 85% compaction
13. PREPARE ALL PLANTING MIX USED IN TREE, SHRUB AND GROUNDCOVER BEDS IN THE FOLLOWING PROPORTIONS: 4 PARTS BY VOLUME TOPSOIL AS SPECIFIED, 2 PARTS BY VOLUME DECOMPOSED ORGANIC MATTER; 2 PARTS BY VOLUME SAND. ADD 3 LBS. 12-6-6 FERTILIZER TO EACH CUBIC YARD OF PLANTING MIX AND 1LB TERRASORB PER 100 SQ FT DURING THE MIXING PROCESS FOR ALL PLANTS.
14. ALL SHRUBS, TREES AND GROUND COVERS SHALL BE PLANTED WITH A SOIL MIXTURE AS INDICATED IN SPECIFICATIONS. FRONT ROW OF SHRUBS SHALL BE PLANTED MINIMUM OF 24" BEHIND BED LINE @ LAWNS OR WALKS AND MINIMUM 36" BACK OF CURB @ PARKING SPACES.
15. SEASONAL COLOR SHALL BE PLANTED IN FLOWERING STATE.
16. CONTRACTOR SHALL WARRANTY ALL PLANT MATERIAL, INCLUDING GRASS FOR ONE FULL YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
17. GRADE ALL AREAS FOR APPROVAL BY LANDSCAPE ARCHITECT BEFORE SEED OR SODDING.
18. CONTRACTOR SHALL SUPPLY AND SPREAD 4" TOPSOIL IN PLANTING BEDS AND ALL AREAS TO BE SEED OR SODDED.
19. ALL PLANTING AREAS, TREE PITS, AND OTHER AREAS INDICATED ON PLANS SHALL BE MULCHED WITH A SETTLED LAYER OF THE INDICATED MULCH:
    - ☒ 3" DEPTH PINESTRAW
    - ☐ 3" DEPTH SHREDDED HARDWOOD MULCH
    - ☐ 3" DEPTH PINE BARK
20. EDGING TO BE LOCATED BETWEEN ALL PLANTING AREAS AND LAWN. PROVIDE EDGING AS INDICATED:
    - ☒ EXCAVATE TRENCH EDGE AS NOTED ON DETAIL.
    - ☐ PROVIDE STEEL EDGING 6" height with 15" stakes.
21. PROVIDE TREE STAKING AS INDICATED:
    - ☐ STAKE TREES ONLY AS NEEDED TO KEEP PLUMB.
    - ☒ STAKE ALL TREES, UNLESS OTHERWISE NOTED
22. REMOVE ALL GUY WIRES AND STAKES AT END OF ONE-YEAR WARRANTY PERIOD.
23. ONE YEAR, PLANT MAINTENANCE FROM SUBSTANTIAL COMPLETION:
    - ☐ INCLUDED IN CONSTRUCTION CONTRACT
    - ☒ NOT INCLUDED IN CONTRACT
    - ☐ ALTERNATE TO CONTRACT
24. CONTRACTOR SHALL PERFORM TREE PIT DRAINAGE TEST AND ASSURE PERCOLATION OF ALL TREE PITS PRIOR TO INSTALLATION.
25. CONTRACTOR SHALL PROVIDE 20 GAL GATOR BAG FOR EACH TREE.
26. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PLANT WATERING DURING CONSTRUCTION AND UP UNTIL TIME OF SUBSTANTIAL COMPLETION.

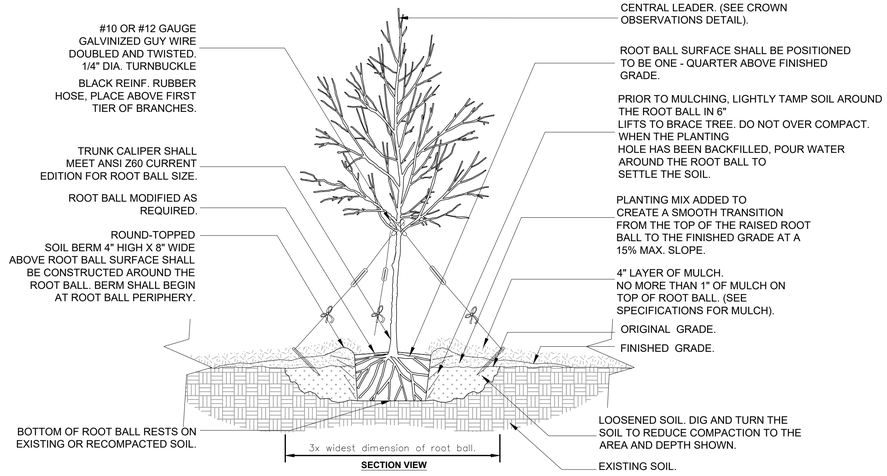


L-5 ANNUAL AND GROUNDCOVER PLANTING DETAIL
NTS



1. SEE PLANTING PLANS FOR SHRUB & GROUNDCOVER BED AREAS.
2. ROWS SHALL BE STRAIGHT & PARALLEL.
3. SPACING SHOWN ON PLANT SCHEDULE (X).

L-4 PLANT SPACING
NTS



L-3 TREE IN COMPACTED SOIL
1/2" = 1'-0"

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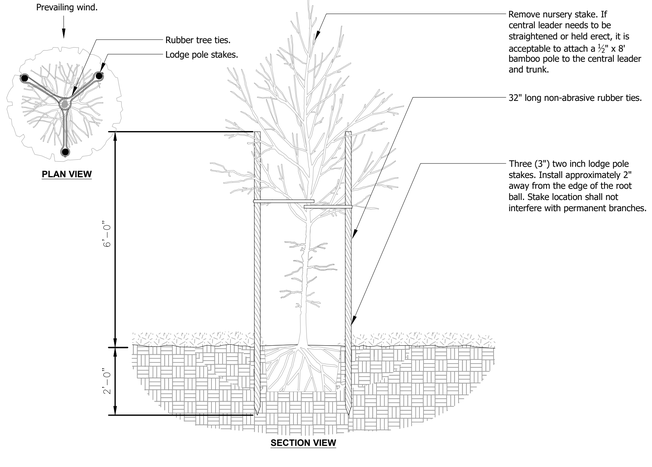
L_tree planting_compacted soil



L-6 TREE STAKING - LODGE POLES (3)
1/2" = 1'-0"

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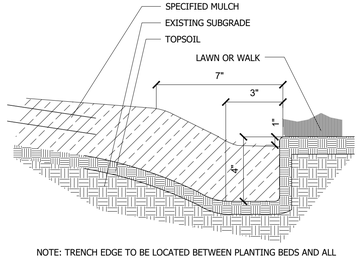
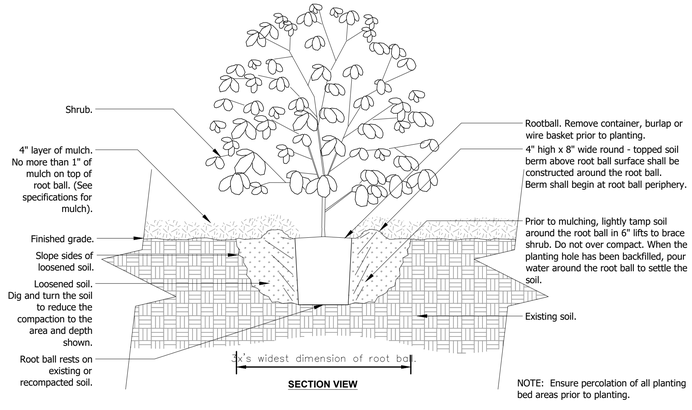
L_tree staking_lodgepoles x 3



NOTE: TRENCH EDGE TO BE LOCATED BETWEEN PLANTING BEDS AND ALL LAWN AREAS OR ADJACENT. WALKS. NEATLY EDGE ALL PLANTING BEDS WITH SMOOTH RADII AND/OR STRAIGHT LINES AS INDICATED ON PLANS.

L-2 TRENCH EDGE
NTS



NOTE: Ensure percolation of all planting bed areas prior to planting.

L-1 SHRUB - UNMODIFIED SOIL
3/8" = 1'-0"

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birmingham, al 35205
205-531-9441

OWNER:

SEAL:

STATE OF ALABAMA
AMY G SMITH
NUMBER 39?
09-23-24
REGISTERED LANDSCAPE ARCHITECT

CONSTRUCTION PLANS FOR:

SHADES CREEK GREENWAY

Project No. 240305
Birmingham, Alabama

SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

NO.	DATE:	DESCRIPTION:

PROJECT NUMBER:	240305
ISSUE DATE:	09/23/24
DRAWN BY:	AGS
CHECKED BY:	MOK

SCALE:
20' 10' 0 10' 20'
SCALE IN FEET
(1 IN = 20 FT)

SHEET TITLE:
PLANTING DETAILS

SHEET NUMBER:
L2.02