

PUBLIC STREET PLANS FOR LEE'S SUMMIT R7 MIDDLE SCHOOL ON BAILEY RD. - OFF-SITE TRAFFIC IMPROVEMENTS, TRAFFIC SIGNAL AT HAMBLEN RD. & BAILEY RD. & GREENWAY TRAIL IMPROVEMENTS

Record Drawing

CITY OF LEE'S SUMMIT JACKSON COUNTY, MISSOURI

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LEGEND

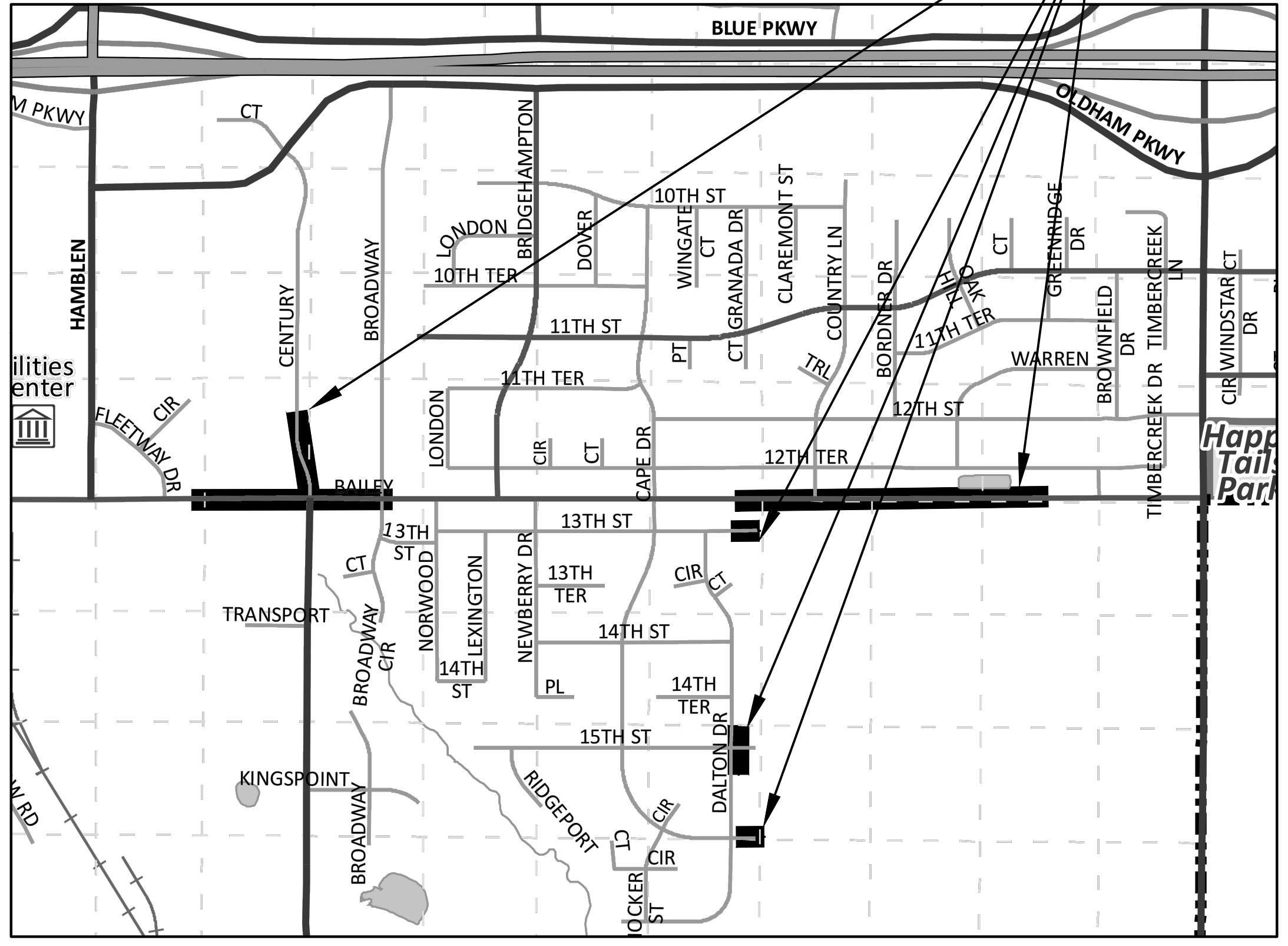
<ul style="list-style-type: none"> ▲CPT SURVEY CONTROL POINT ▲TBM SURVEY BENCHMARK ▲TBM SURVEY TEMPORARY BENCHMARK □GAS GAS METER □GAR GAS RISER ⊙GAS GAS MANHOLE ⊙GAS GAS REGULATOR ⊙TELE TELEVISION PEDESTAL ⊙FIBER FIBER BOX ⊙FIBER FIBER PEDESTAL ⊙CABLE CABLE BOX ⊙CABLE CABLE VAULT ⊙TELE TELEPHONE PEDESTAL ⊙STORM STORM MANHOLE ⊙STORM STORM GRATE ⊙SANITARY SANITARY MANHOLE ⊙YARD YARD LIGHT ⊙LTP LIGHT POLE ⊙PP POWER POLE ⊙LPP POWER POLE W/ LIGHT ⊙STUMP ⊙BU BUSH ⊙EVERGREEN EVERGREEN TREE ⊙DECIDUOUS DECIDUOUS TREE ⊙MAILBOX 	<ul style="list-style-type: none"> ⊙ TRAFFIC SIGNAL BOX ⊙ TRAFFIC SIGNAL MANHOLE ⊙ TRAFFIC SIGNAL POLE W/ ARM ⊙ TRAFFIC SIGNAL POLE ⊙ TRAFFIC SIGNAL CONTROL BOX ⊙ TRAFFIC SIGNAL PEDESTAL ⊙ ELECTRIC MANHOLE ⊙ ELECTRIC METER ⊙ ELECTRIC RISER ⊙ ELECTRIC BOX ⊙ ELECTRIC CABINET ⊙ ELECTRIC JUNCTION BOX ⊙ SPRINKLER HEAD ⊙ SPRINKLER CONTROL VALVE ⊙ WATER METER PIT ⊙ FIRE HYDRANT ⊙ WATER METER ⊙ WATER VALVE ⊙ FLAG POLE ⊙ SIGN ⊙ BOLLARD ⊙ WOOD POST ⊙ STEEL POST ⊙ COLUMN ⊙ BORE HOLE ⊙ FIBER OPTIC VAULT
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<ul style="list-style-type: none"> — SECTION LINE — PROPERTY LINE — CENTER LINE — PROPOSED ROW LINE — EXISTING ROW LINE — UTILITY EASEMENT — +3.74 EXISTING MAJOR CONTOUR — +3.74 EXISTING MINOR CONTOUR — 1371 PROPOSED MAJOR CONTOUR — 1371 PROPOSED MINOR CONTOUR — TEL EXISTING TELEPHONE LINE — EXISTING SANITARY LINE — EXISTING STORM LINE — G EXISTING GAS LINE — W EXISTING WATER LINE — x-x-x-x EXISTING CHAIN LINK FENCE — P-OH EXISTING OVERHEAD ELECTRIC — P-UG EXISTING UNDERGROUND ELECTRIC — GRADING LIMITS — TEMPORARY CONSTRUCTION EASEMENT — x-x-x-x PROPOSED CHAIN LINK FENCE — o-o-o-o PROPOSED WOOD PRIVACY FENCE — EXISTING TREELINE — FO EXISTING FIBER OPTIC LINE — CATV EXISTING CATV LINE — PROPOSED UNDERDRAIN 	<ul style="list-style-type: none"> — SECTION LINE — PROPERTY LINE — CENTER LINE — PROPOSED ROW LINE — EXISTING ROW LINE — UTILITY EASEMENT — +3.74 EXISTING MAJOR CONTOUR — +3.74 EXISTING MINOR CONTOUR — 1371 PROPOSED MAJOR CONTOUR — 1371 PROPOSED MINOR CONTOUR — TEL EXISTING TELEPHONE LINE — EXISTING SANITARY LINE — EXISTING STORM LINE — G EXISTING GAS LINE — W EXISTING WATER LINE — x-x-x-x EXISTING CHAIN LINK FENCE — P-OH EXISTING OVERHEAD ELECTRIC — P-UG EXISTING UNDERGROUND ELECTRIC — GRADING LIMITS — TEMPORARY CONSTRUCTION EASEMENT — x-x-x-x PROPOSED CHAIN LINK FENCE — o-o-o-o PROPOSED WOOD PRIVACY FENCE — EXISTING TREELINE — FO EXISTING FIBER OPTIC LINE — CATV EXISTING CATV LINE — PROPOSED UNDERDRAIN
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ABBREVIATION TABLE

M.G.	MATCH GRADE
P	PAVEMENT
TC	TOP OF CURB
BC	BACK OF CURB
EP	EDGE OF PAVEMENT
R/W	RIGHT-OF-WAY
TCE	TEMPORARY CONSTRUCTION EASEMENT
PROP.	PROPOSED
EXIST.	EXISTING
TYP.	TYPICAL
(R)	REMOVAL
CONST.	CONSTRUCT
TBM	TEMPORARY BENCHMARK
CPT	CONTROL POINT
D.N.D.	DO NOT DISTURB
U.I.P.	USE IN PLACE
ADJ.	ADJUST
EL.	ELEVATION
ESMT.	EASEMENT
B-B	BACK OF CURB TO BACK OF CURB DIMENSION
SP.	SPECIAL
DT.	DITCH
STD.	STANDARD
PERM.	PERMANENT

PROJECT LOCATIONS



LOCATION MAP

NOT TO SCALE

DESIGN/POSTED SPEED:

- RANSON ROAD = 45 MPH
- BAILEY ROAD = 35 MPH
- CENTURY DRIVE (NORTH OF BAILEY ROAD) = 25 MPH
- CENTURY DRIVE (SOUTH OF BAILEY ROAD) = 40 MPH
- SE 13TH STREET = 25 MPH
- SE CAPE DRIVE = 25 MPH

UTILITY COMPANIES

- WATER - LEE'S SUMMIT WATER UTILITIES**
1200 SE HAMBLEN ROAD
LEE'S SUMMIT, MO 64081
(816) 969-1900
- WASTEWATER - LITTLE BLUE VALLEY SEWER DISTRICT**
21208 E OLD ATHONTON ROAD
INDEPENDENCE, MO 640581
(816) 796-7660
- ELECTRIC - EVERGY**
1300 SE HAMBLEN ROAD
LEE'S SUMMIT, MO 64081
(888) 471-5275
- GAS - SPIRE GAS**
3025 SE CLOVER DR
LEE'S SUMMIT, MO 64082
(816) 969-2200
- TELEPHONE - AT&T**
1636 SE BLUE PKWY
LEE'S SUMMIT, MO 64063
(816) 600-5552
- CABLE - SPECTRUM**
188 NW OLDHAM PKWY
LEE'S SUMMIT, MO 64081
(866) 874-2389
- FIBER OPTIC - GOOGLE FIBER**
909 BROADWAY BLVD.
KANSAS CITY, MO 64105.
(913) 663-1900



1-800-DIG-RITE or 811

www.mo1call.com

THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!

PREPARED & SUBMITTED BY:



7301 W. 133RD STREET, SUITE 200
OVERLAND PARK, KANSAS 66213

Ryan B. Fleming 8/11/21

RYAN B. FLEMING, P.E. DATE

I CERTIFY THESE PLANS WERE PREPARED BY ME OR UNDER MY IMMEDIATE PERSONAL SUPERVISION. THE FOLLOWING DRAWINGS ARE INTENDED TO BE AUTHENTICATED BY MY SEAL: PE-2002003161

Shannon Jeffries 5/17/21

SHANNON JEFFRIES, P.E. DATE

I CERTIFY THESE PLANS WERE PREPARED BY ME OR UNDER MY IMMEDIATE PERSONAL SUPERVISION. THE FOLLOWING DRAWINGS ARE INTENDED TO BE AUTHENTICATED BY MY SEAL: PE-2008000069

APPROVED BY:

CITY OF LEE'S SUMMIT

GEORGE BINGER, P.E.
CITY ENGINEER

DATE

olsson

Olsson Engineering - MO State Certificate of Authority #001592
7301 West 133rd Street, Suite 200 TEL: 913.381.1170
Overland Park, KS 66213-4750 FAX: 913.381.1174
www.olsson.com

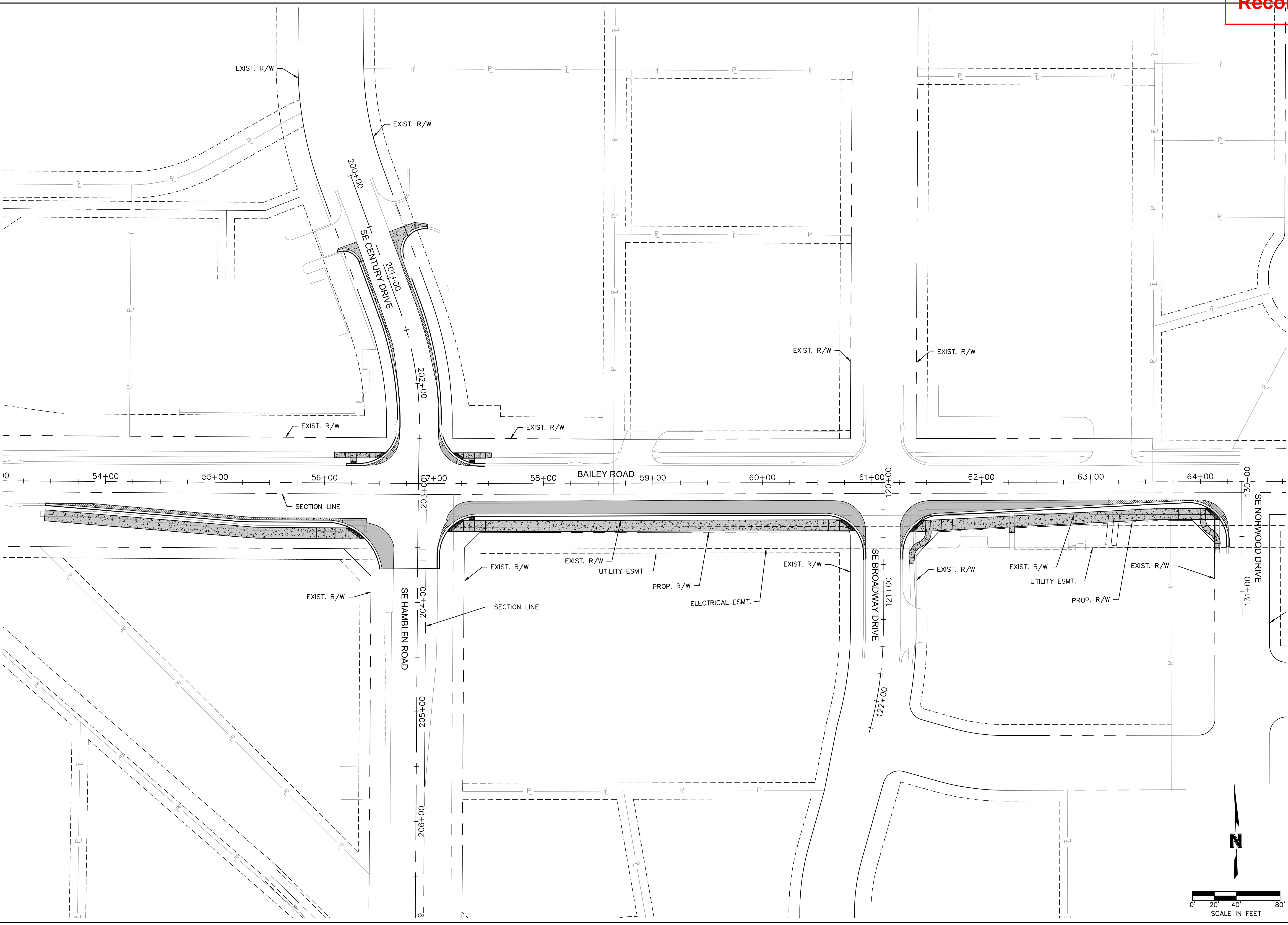
RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH

TITLE SHEET	2021
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

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 USER: mrobertson C_PBASE_0200103



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RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

GENERAL LAYOUT

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

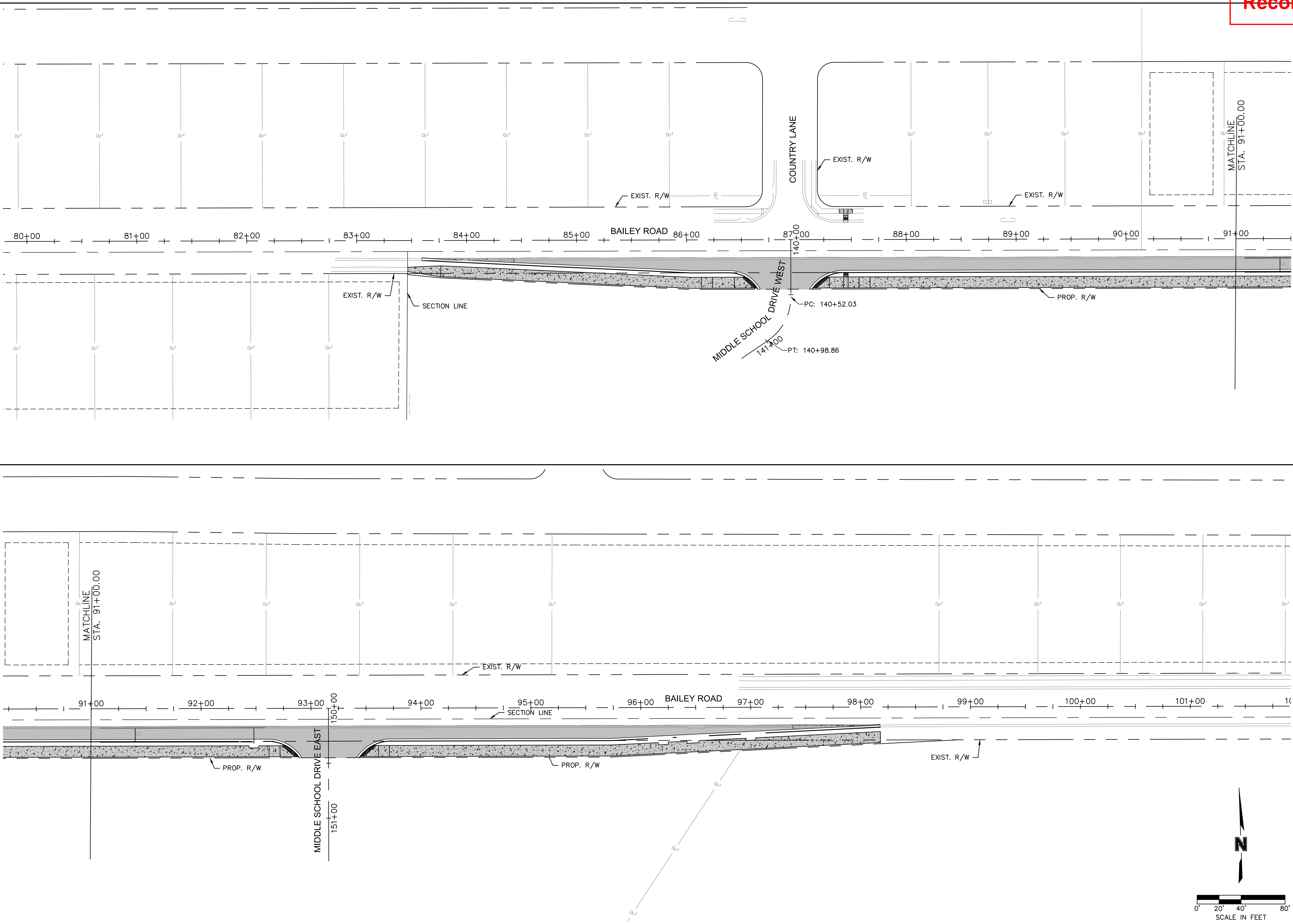
LEE'S SUMMIT, MISSOURI

2021

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_LAYOUT_0200103
 DATE: 2022-11-04

SHEET 2 OF 101

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 USER: mrobertson C_PBASE_0200103



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RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

GENERAL LAYOUT

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

2021

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_LAYOUT_0200103
 DATE: 2022-11-04

SHEET 3 OF 101

DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\ROBR\Lee Summit Plan Set - (Century and Middle School Drives)\GENERAL T_SUR01_0200103.dwg
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 USER: mrobertson

OLSSON CONTROL INFORMATION:

Basis of coordinates shown hereon are based on Missouri state plane coordinate system, West Zone, and scaled to ground coordinates utilizing a combined adjustment factor of 0.9998986, holding Jackson County GPS Control Point JA-45 as a base point. Distances shown hereon are ground distances in US Survey Feet.

MO DNR JA-45:
 KC Metro Aluminum GRS Disk set in concrete ±3" below pavement on shoulder of SE Ranson Rd. Stamped "JA-45".
 N: 994990.346
 E: 2834265.611
 Elev.: 1046.26'

Olsson #100:
 Set 1/2" Rebar with Olsson Control Cap. Set in the grass on the North side of SE Bailey Rd.
 N: 993598.83
 E: 2831586.70
 Elevation: 1032.16'

- Ties:**
- SW 66.88' to the NE corner of the concrete sidewalk on the South side of SE Bailey Rd.
 - SSW 82.19' to the center of a power pole on the South side of SE Bailey Rd.
 - East 254.35' to the NW corner of a concrete curb inlet on the North side of SE Bailey Rd.
 - East ±298' to the centerline of Country Ln. on the North side of SE Bailey Rd.

Olsson #101:
 Set 1/2" Rebar with Olsson Control Cap. Set in the grass on the North side of SE Bailey Rd.
 N: 993551.11
 E: 2832755.84
 Elevation: 1014.26'

- Ties:**
- East 80.94' to the NW corner of a concrete curb inlet on the North side of SE Bailey Rd.
 - SE 91.53' to the SW corner of a concrete curb inlet on the South side of SE Bailey Rd.
 - NE 94.82' to the SW corner of a concrete overflow structure on the South side of a pond on the North side of SE Bailey Rd.
 - West ±871' to the centerline of Country Ln. on the North side of SE Bailey Rd.

Olsson #102:
 Set 1/2" Rebar with Olsson Control Cap. Set in the grass ±58' East of the East end of SE 15th St.
 N: 992084.37
 E: 2831530.63
 Elevation: 1012.56'

- Ties:**
- NW 67.97' to the center of a water valve on the North side of SE 15th St.
 - West 59.33' to the center of a sanitary manhole on the South side of SE 15th St.
 - WSW 57.28' to the SE corner of the East end of the concrete sidewalk on the South side of SE 15th St.
 - North ±15' to the Easterly prolongation of the centerline of SE 15th St.

Olsson #103:
 Set 1/2" Rebar with Olsson Control Cap. Set in the grass ±62' East of the East end of SE Cape Dr.
 N: 991953.72
 E: 2831514.48
 Elevation: 1000.43'

- Ties:**
- NW 76.12' to the center of a telephone pedestal on the North side of SE Cape Dr.
 - SW 67.00' to the center of a water valve on the South side of SE Cape Dr.
 - SW 70.06' to the SE corner of the East end of the concrete sidewalk on the South side of SE Cape Dr.
 - North ±4' to the Easterly prolongation of the centerline of SE Cape Dr.

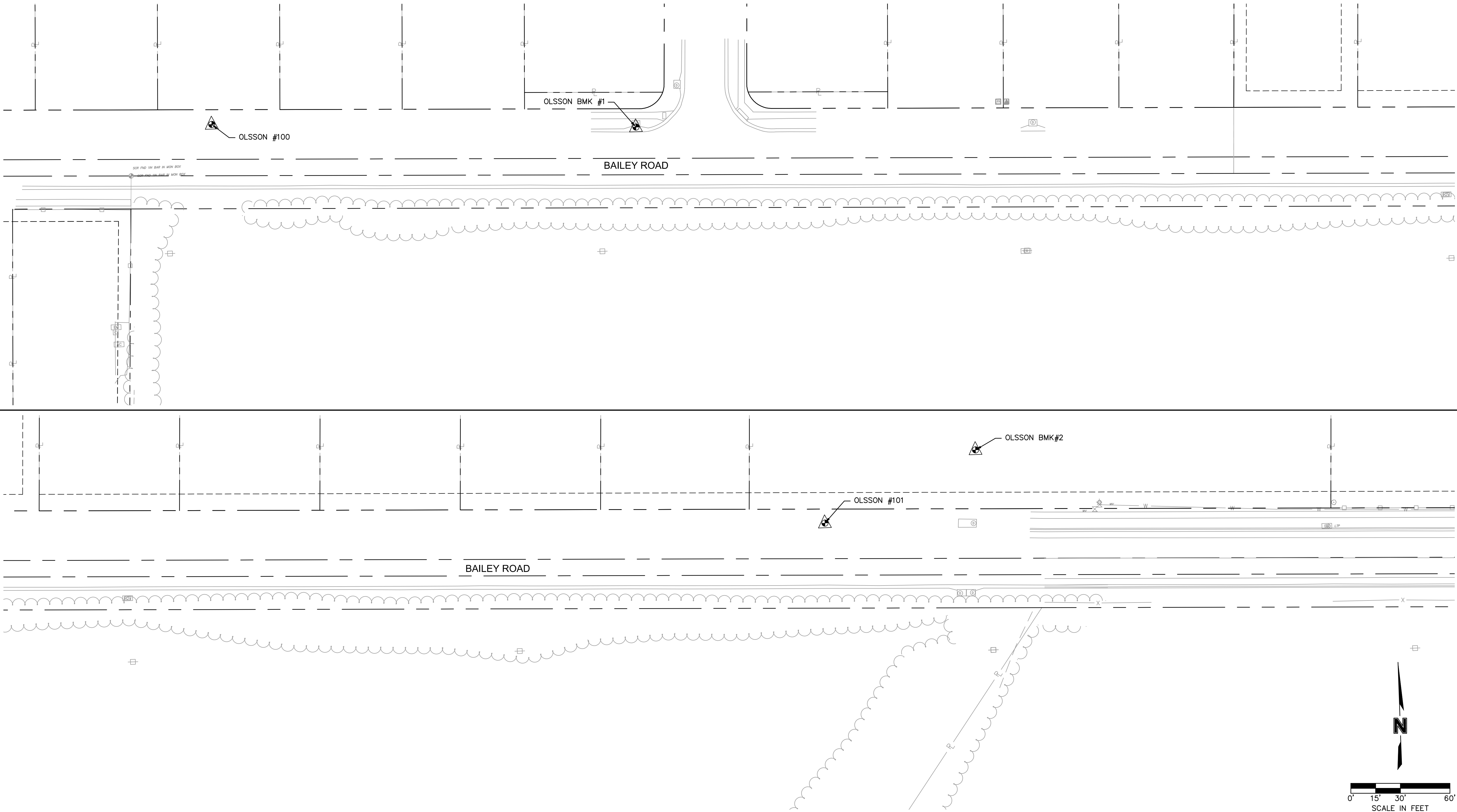
Basis of elevations shown hereon are based upon NAVD '88 utilizing MoDOT's continuously monitored GNSS system and holding the elevation of JA-45 elevation 1046.26'

Olsson Benchmark #1:
 Set chiseled square cut on center front face of a curb inlet on North side of SE Bailey Rd. ±42' West of Country Ln.
 Elevation: 1028.43'

Olsson Benchmark #2:
 Set chiseled square cut on SE corner of overflow structure on South side of pond on North side of SE Bailey Rd. ±962' East of Country Ln.
 Elevation: 1017.13'

Olsson Benchmark #3:
 Set chiseled "+" cut on SSE flange bolt of fire hydrant in the NW quadrant of the intersection of SE 15th St. and SE Dalton Dr.
 Elevation: 1016.27'

Olsson Benchmark #4:
 Set chiseled square cut on edge of sidewalk at the West center of a curb inlet in the NW quadrant of the intersection of SE Cape Dr. and SE Dalton Dr.
 Elevation: 999.24'



REV. NO.	DATE	REVISIONS DESCRIPTION	BY

REVISIONS

2021

SURVEY CONTROL

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_SUR01_0200103
 DATE: 2022-11-04

SHEET 5 OF 101

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RECORD DRAWINGS

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 7301 West 133rd Street, Suite 200 TEL: 913.381.1170
 Overland Park, KS 66213-4760 FAX: 913.381.1174 www.olsson.com

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 DATE: Nov 07, 2022 1:07pm XREFS: T_PTBK_0200103 V_TOPO_00103 V_XTOPO-2_00103 V_XBOU-2_00103 V_XBOU_00103
 USER: mrobertson

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 3. NE 94.82' to the SW corner of a concrete overflow structure on the South side of a pond on the North side of SE Bailey Rd.
 4. West ±671' to the centerline of Country Ln. on the North side of SE Bailey Rd.

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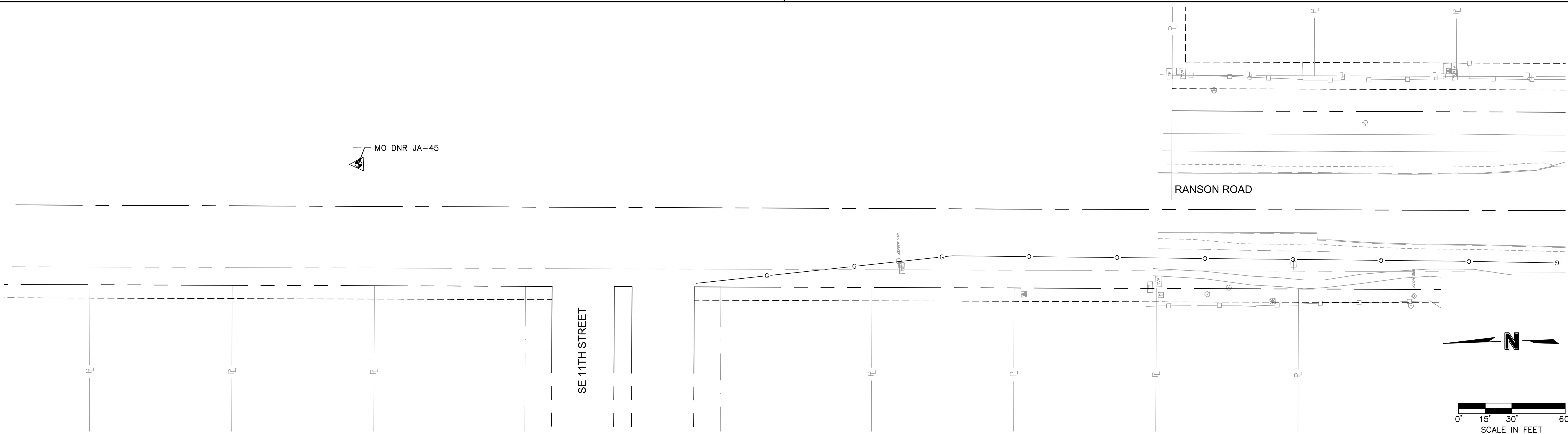
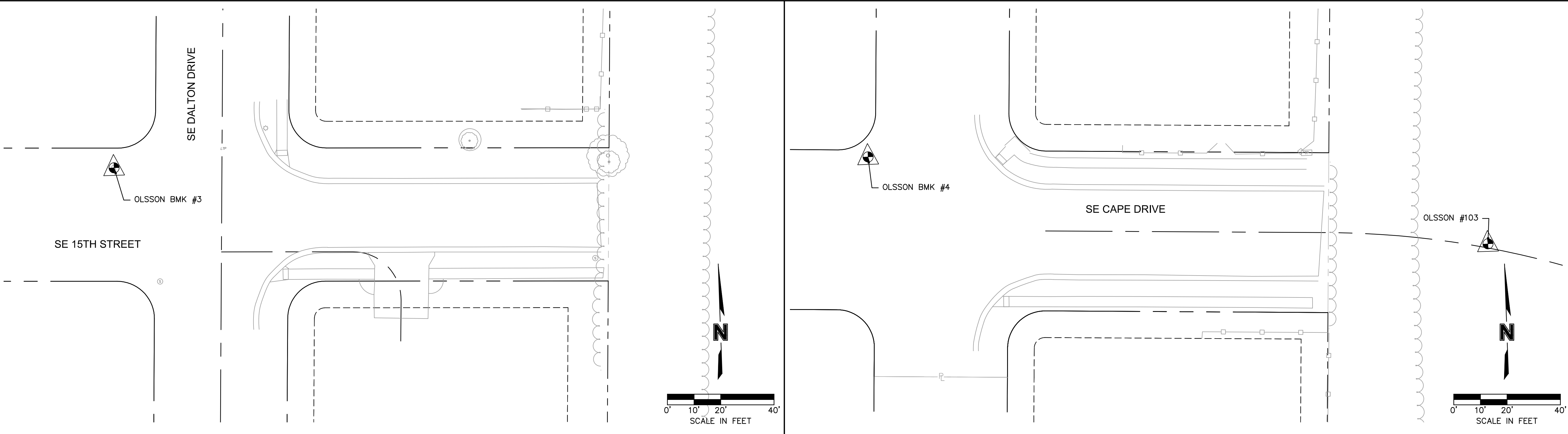
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RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

SURVEY CONTROL

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

2021
 REVISIONS

C.O.A. NO.: 001592

DRAWN BY: MLW

CHECKED BY: RPH

APPROVED BY: RBE

QA/QC BY: RBE

PROJECT NO.: 020-0103

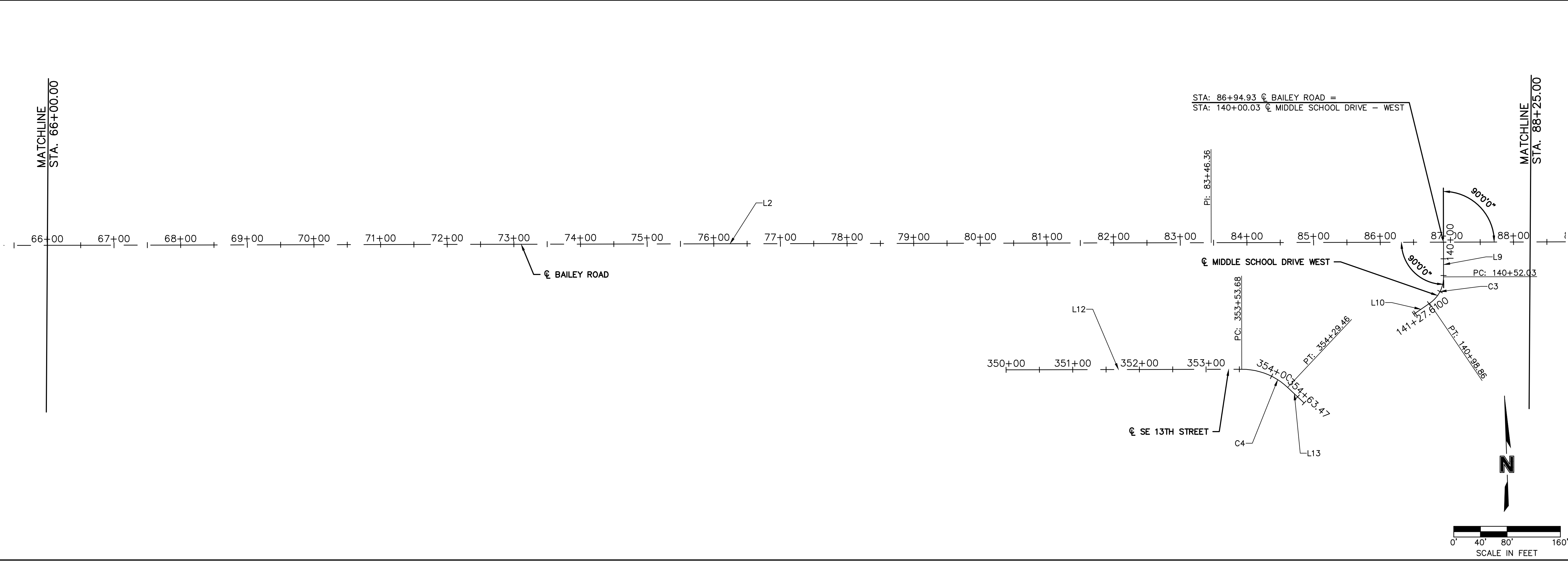
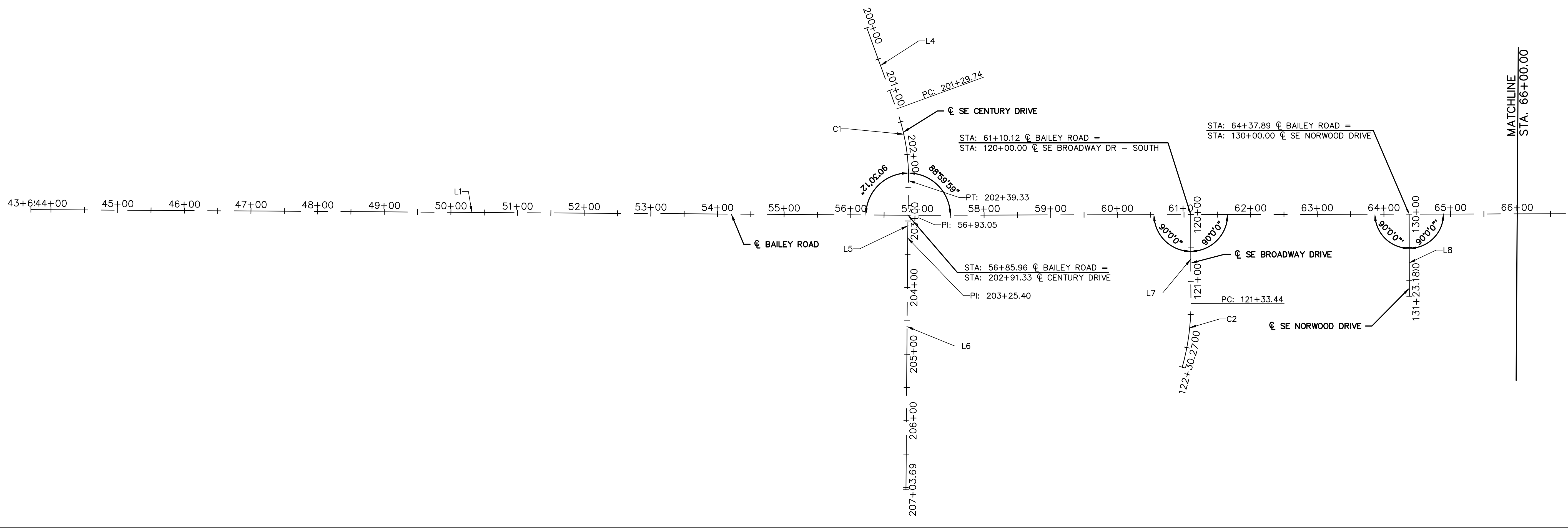
DWG NO.: T_SUR01_0200103

DATE: 2022-11-04

SHEET

6 OF 101

DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\RDR\Lee Summit Plan Set - (Century and Middle School Drives)\GENERAL T_ALI01_0200103.dwg
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 USER: mcrobertson



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RECORD DRAWINGS

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ALIGNMENT DATA

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

2021

LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: MLW
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 APPROVED BY: RBE
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 PROJECT NO.: 020-0103
 DWG NO.: T_ALI01_0200103
 DATE: 2022-11-04

SHEET 7 OF 101

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH

ALIGNMENT DATA	2021
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

C.O.A. NO.:	001592
DRAWN BY:	MLW
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BAILEY ROAD								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L1	43+69.83 56+93.05	993720.5791 993665.9183	2827563.2008 2828885.2877	1323.22'	S87°37'57"E			
L2	56+93.05 83+46.36	993665.9183 993579.3187	2828885.2877 2831537.1864	2653.31'	S88°07'47"E			
L3	83+46.36 110+00.00	993579.3187 993492.7705	2831537.1864 2834189.4132	2653.64'	S88°07'52"E			

CENTURY DRIVE								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L4	200+00.00 201+29.74	993949.5212 993826.1730	2828826.1134 2828866.3338	129.74'	S18°03'35"E			
C1	PC= 201+29.74 PI= 201+85.15 PT= 202+39.33	993826.1730 993773.4896 993718.1456	2828866.3338 2828883.5125 2828880.7372	109.59'	S7°35'40"E	20°55'50"	55.41'	300.00'
L5	202+39.33 203+25.40	993718.1456 993632.1903	2828880.7372 2828876.4268	86.06'	S2°52'15"W			
L6	203+25.40 207+03.69	993632.1903 993254.2228	2828876.4268 2828860.7609	378.29'	S2°22'24"W			

SE BROADWAY DR - SOUTH								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L7	120+00.00 121+33.44	993652.3058 993518.9376	2829302.1366 2829297.7813	133.44'	S1°52'13"W			
C2	PC= 121+33.44 PI= 121+82.17 PT= 122+30.27	993518.9376 993470.2374 993423.8234	2829297.7813 2829296.1910 2829281.3591	96.83'	S9°47'46"W	15°51'05"	48.73'	350.00'

SE NORWOOD DRIVE								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L8	130+00.00 131+23.18	993641.6078 993518.4892	2829629.7349 2829625.7144	123.18'	S1°52'13"W			

MIDDLE SCHOOL DRIVE - WEST								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L9	140+00.00 140+52.03	993567.9501 993515.9461	2831885.5710 2831883.8740	52.03'	S1°52'08"W			
C3	PC= 140+52.03 PI= 140+77.50 PT= 140+98.86	993515.9461 993490.4928 993476.9095	2831883.8740 2831883.0434 2831861.5016	46.83'	S29°49'03"W	55°53'50"	25.47'	48.00'
L10	140+98.86 141+27.61	993476.9095 993461.5769	2831861.5016 2831837.1858	28.75'	S57°45'58"W			

MIDDLE SCHOOL DRIVE - EAST								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L11	150+00.00 151+38.90	993547.6988 993408.8714	2832506.1625 2832501.6323	138.90'	S1°52'08"W			

SE 13TH STREET								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L12	350+00.00 353+53.68	993399.5226 993387.9748	2831222.9266 2831576.4215	353.68'	S88°07'44"E			
C4	PC= 353+53.68 PI= 353+93.50 PT= 354+29.46	993387.9748 993386.6750 993358.3824	2831576.4215 2831616.2123 2831644.2218	75.78'	S66°25'14"E	43°25'01"	39.81'	100.00'
L13	354+29.46 354+63.47	993358.3824 993334.2128	2831644.2218 2831668.1496	34.01'	S44°42'43"E			

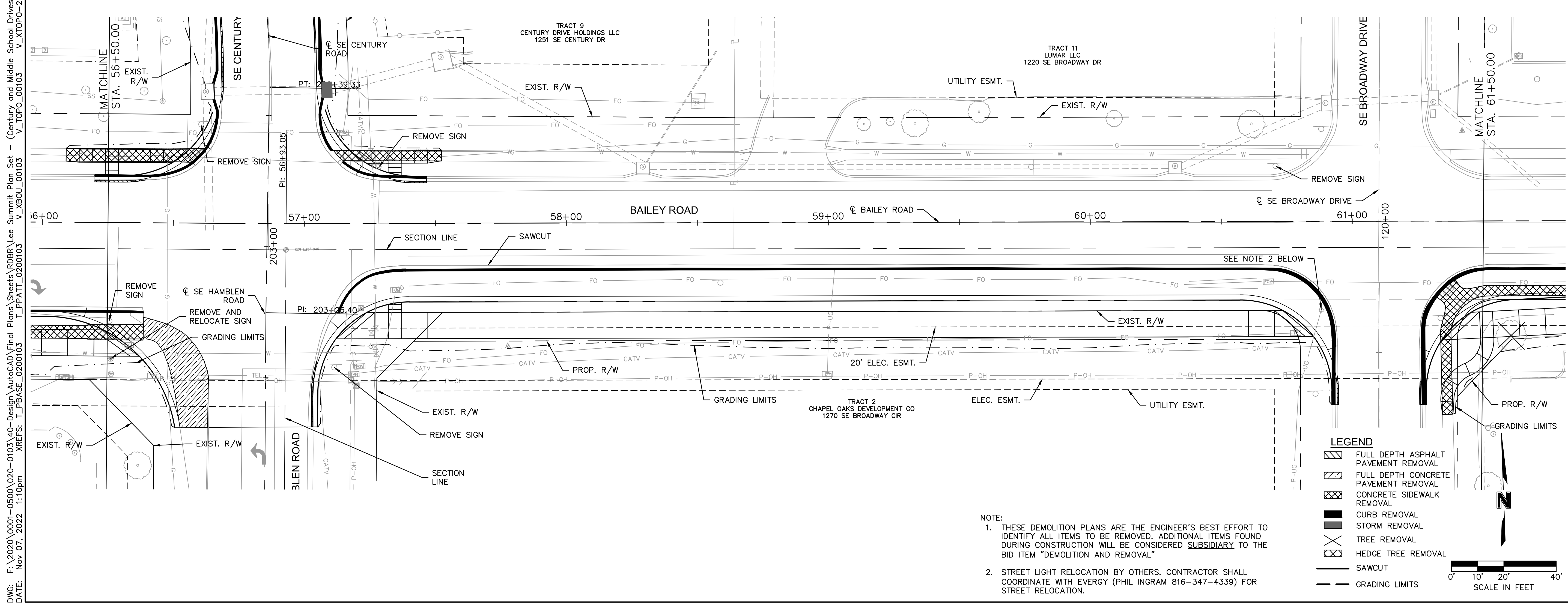
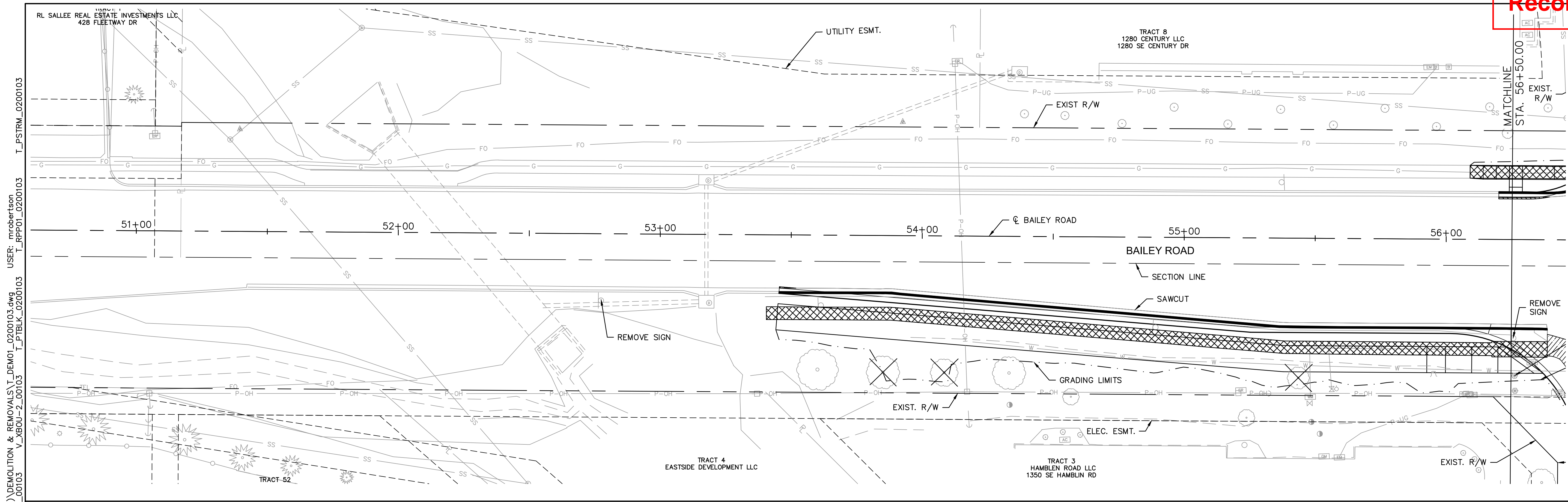
SE DALTON DRIVE								
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L14	600+00.00 603+51.73	992250.3770 991898.9381	2831337.7063 2831323.4004	351.73'	S2°19'52"W			

DRIVE STA. 650+00.00								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L15	650+00.00 650+49.37	992091.3468 992089.6565	2831331.2327 2831380.5784	49.37'	S88°02'17"E			
C5	PC= 650+49.37 PI= 650+67.54 PT= 650+77.81	992089.6565 992089.0346 992070.8857	2831380.5784 2831398.7337 2831397.9452	28.44'	S42°46'31"E	90°31'33"	18.17'	18.00'
L16	650+77.81 650+93.16	992070.8857 992055.5518	2831397.9452 2831397.2790	15.35'	S2°29'16"W			

SE CAPE DRIVE								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
L17	300+00.00 301+06.09	991564.3519 991560.0371	2831348.8128 2831454.8109	106.09'	S87°40'08"E			
C6	PC= 301+06.09 PI= 301+66.18 PT= 302+25.00	991560.0371 991557.5931 991534.4341	2831454.8109 2831514.8505 2831570.2976	118.91'	S77°30'00"E	20°20'17"	60.09'	335.00'

DRIVE STA. 301+60.38								
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
C8	PC= 499+21.96 PI= 499+61.06 PT= 500+00.00	991553.4513 991591.3073 991630.2036	2831508.6475 2831518.4053 2831522.3256	78.04'	N10°06'17"E	8°41'56"	39.09'	514.00'

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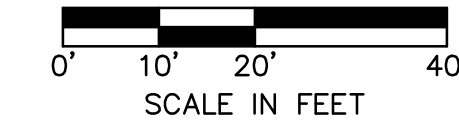


LEGEND

- FULL DEPTH ASPHALT PAVEMENT REMOVAL
- FULL DEPTH CONCRETE PAVEMENT REMOVAL
- CONCRETE SIDEWALK REMOVAL
- CURB REMOVAL
- STORM REMOVAL
- TREE REMOVAL
- HEDGE TREE REMOVAL
- SAWCUT
- GRADING LIMITS

NOTE:

- THESE DEMOLITION PLANS ARE THE ENGINEER'S BEST EFFORT TO IDENTIFY ALL ITEMS TO BE REMOVED. ADDITIONAL ITEMS FOUND DURING CONSTRUCTION WILL BE CONSIDERED SUBSIDIARY TO THE BID ITEM "DEMOLITION AND REMOVAL"
- STREET LIGHT RELOCATION BY OTHERS. CONTRACTOR SHALL COORDINATE WITH ENERGY (PHIL INGRAM 816-347-4339) FOR STREET RELOCATION.



DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\ROBR\Lee Summit Plan Set - (Century and Middle School Drives)\DEMOLITION & REMOVALS\T_DEM01_0200103.dwg
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 USER: mrobertson

olsson

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 Overland Park, KS 66213-4760 FAX: 913.381.1174 www.ollson.com

RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

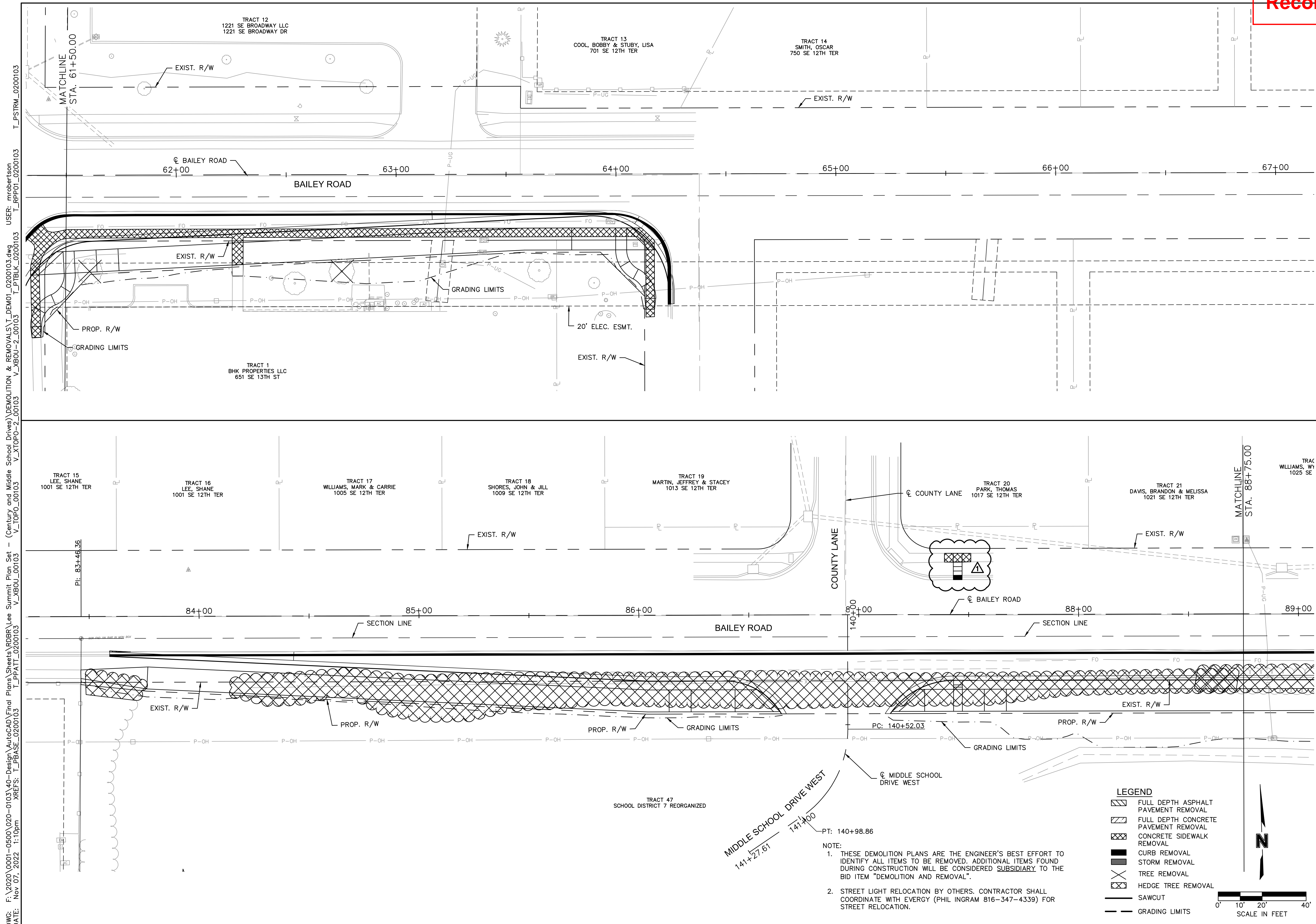
DEMOLITION & REMOVALS
 BAILEY ROAD

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_DEM01_0200103
 DATE: 2022-11-04

SHEET 12 OF 101



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 USER: mroberson

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RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	03/17/2022	ASI #47	RPH

DEMOLITION & REMOVALS
 BAILEY ROAD

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2021

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_DEM01_0200103
 DATE: 2022-11-04

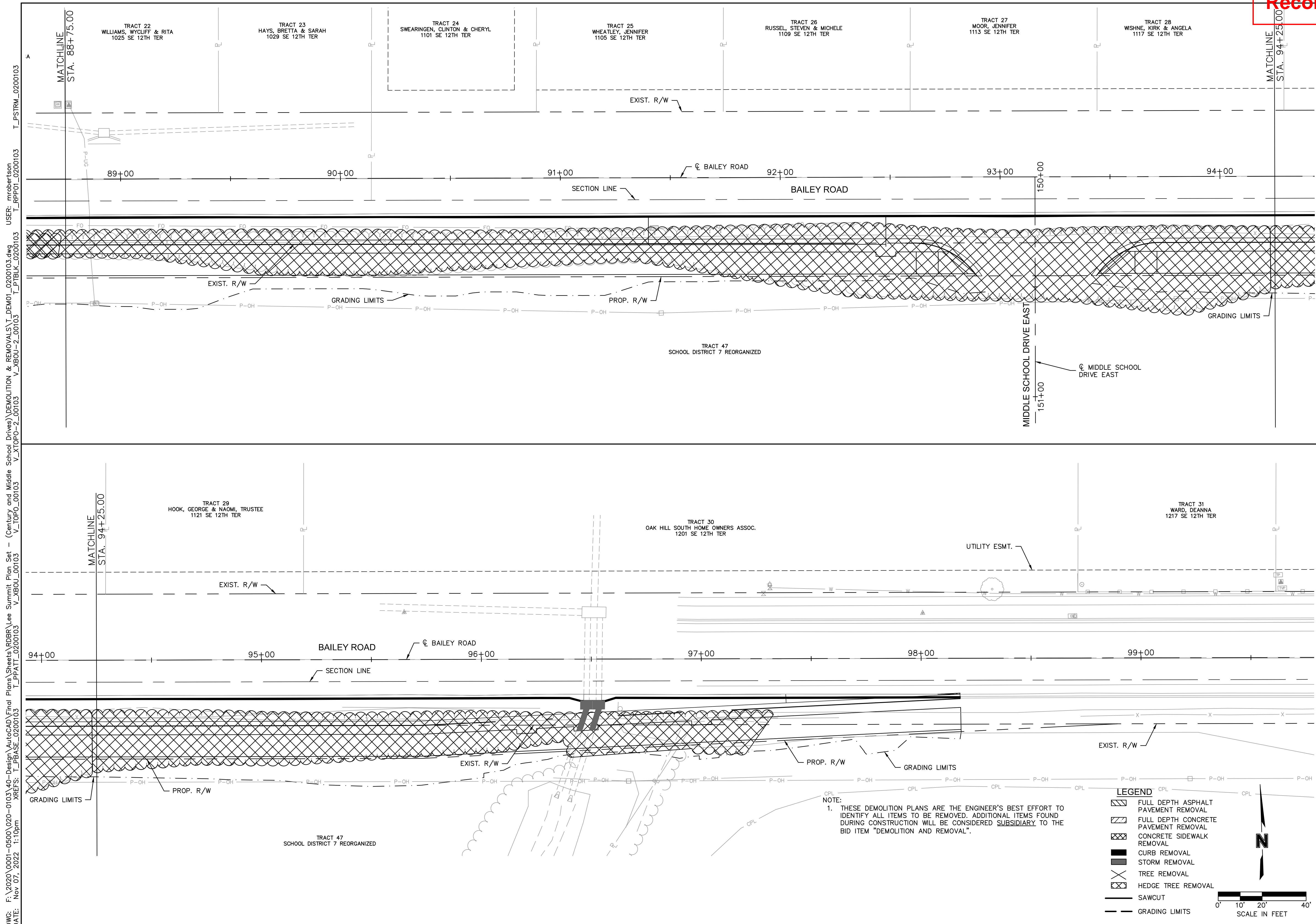
NOTE:

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- STREET LIGHT RELOCATION BY OTHERS. CONTRACTOR SHALL COORDINATE WITH EVERGY (PHIL INGRAM 816-347-4339) FOR STREET RELOCATION.

LEGEND

- FULL DEPTH ASPHALT PAVEMENT REMOVAL
- FULL DEPTH CONCRETE PAVEMENT REMOVAL
- CONCRETE SIDEWALK REMOVAL
- CURB REMOVAL
- STORM REMOVAL
- TREE REMOVAL
- HEDGE TREE REMOVAL
- SAWCUT
- GRADING LIMITS

SCALE IN FEET
 0' 10' 20' 40'



DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\ROBR\Lee Summit Plan Set - (Century and Middle School Drives)\DEMOLITION & REMOVALS\T_DEMO1_0200103.dwg
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 Overland Park, KS 66213-4750 FAX: 913.381.1174 www.olsosn.com

RECORD DRAWINGS

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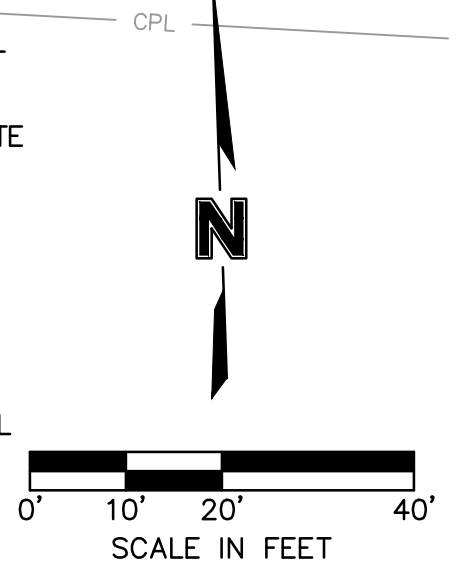
DEMOLITION & REMOVALS
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.O.A. NO.:	001592
DRAWN BY:	MLW
CHECKED BY:	RPH
APPROVED BY:	RBE
QA/QC BY:	RBE
PROJECT NO.:	020-0103
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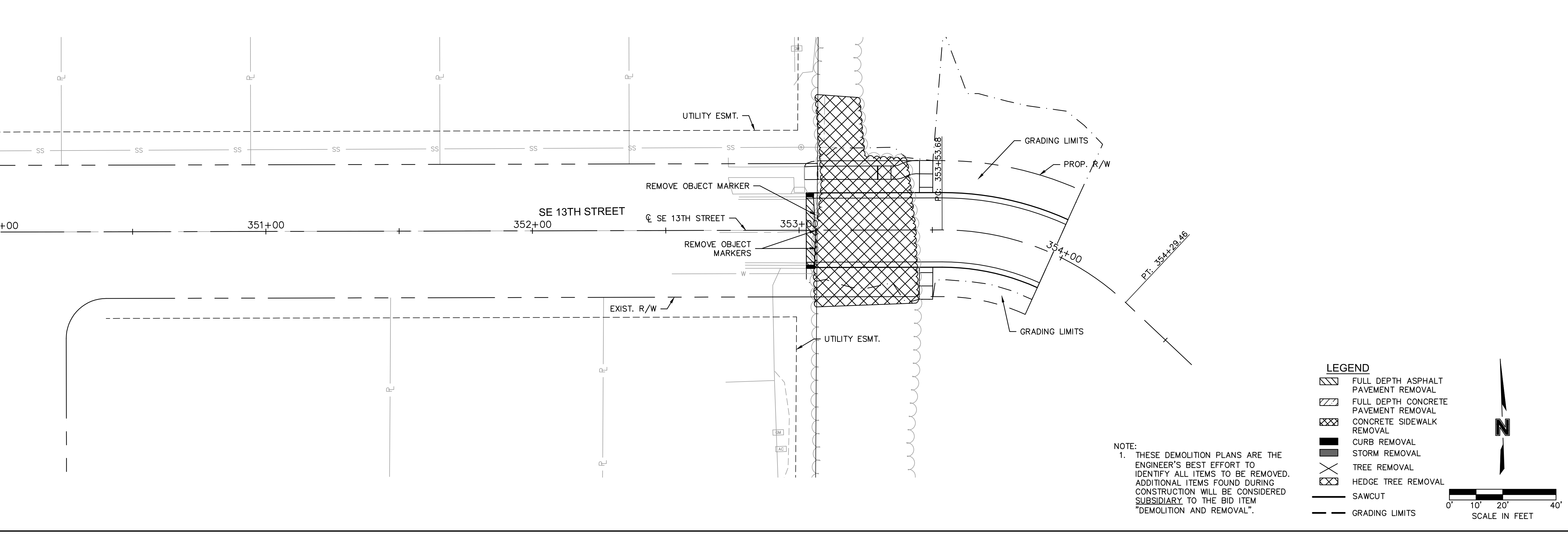
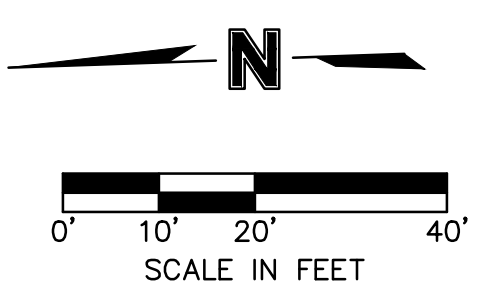
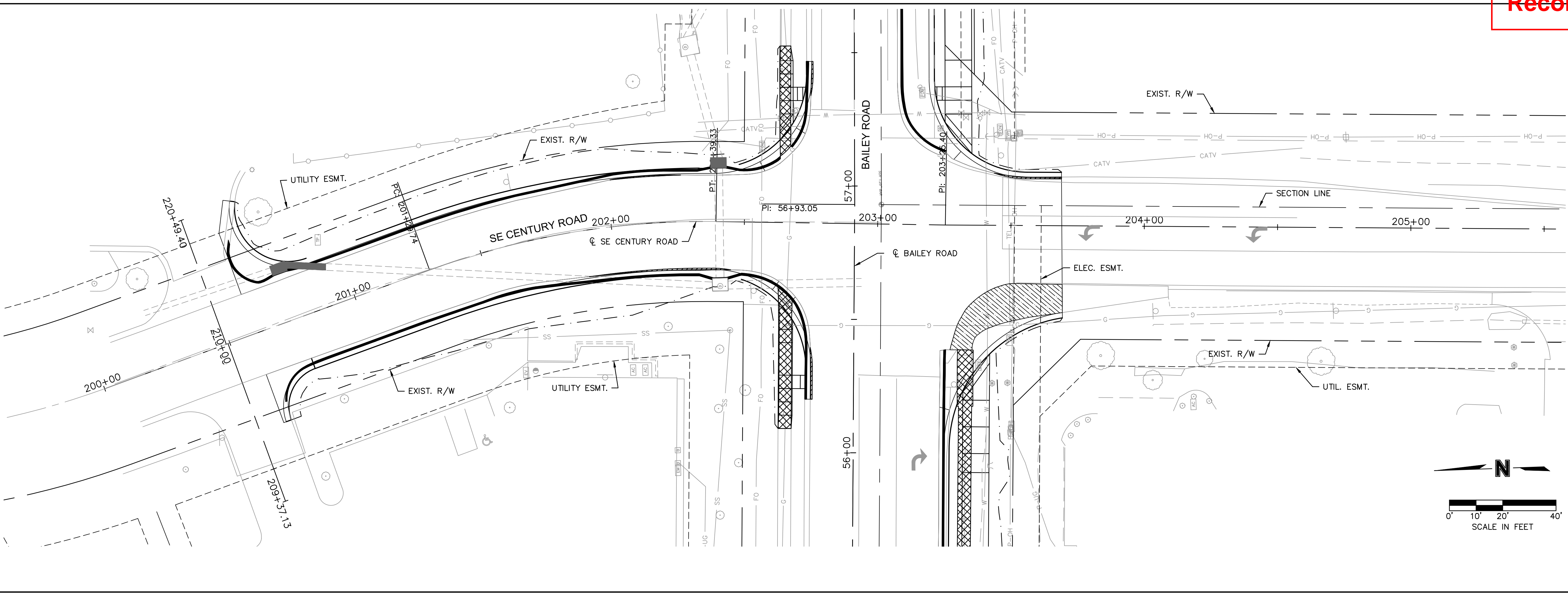
LEGEND

- FULL DEPTH ASPHALT PAVEMENT REMOVAL
- FULL DEPTH CONCRETE PAVEMENT REMOVAL
- CONCRETE SIDEWALK REMOVAL
- CURB REMOVAL
- STORM REMOVAL
- TREE REMOVAL
- HEDGE TREE REMOVAL
- SAWCUT
- GRADING LIMITS

CPL NOTE:
 1. THESE DEMOLITION PLANS ARE THE ENGINEER'S BEST EFFORT TO IDENTIFY ALL ITEMS TO BE REMOVED. ADDITIONAL ITEMS FOUND DURING CONSTRUCTION WILL BE CONSIDERED SUBSIDIARY TO THE BID ITEM "DEMOLITION AND REMOVAL".



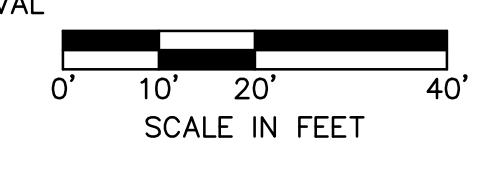
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LEGEND

- FULL DEPTH ASPHALT PAVEMENT REMOVAL
- FULL DEPTH CONCRETE PAVEMENT REMOVAL
- CONCRETE SIDEWALK REMOVAL
- CURB REMOVAL
- STORM REMOVAL
- TREE REMOVAL
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RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

DEMOLITION & REMOVALS
 CENTURY DRIVE & 13TH STREET

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

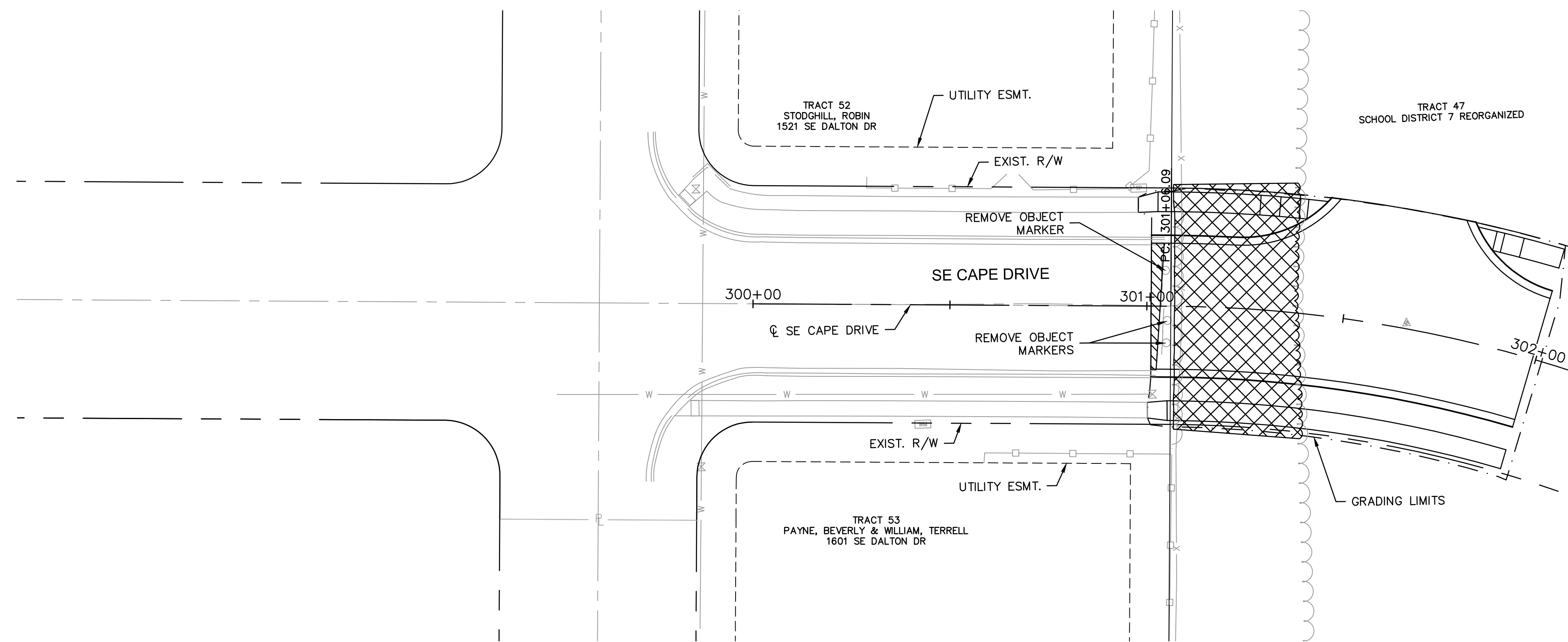
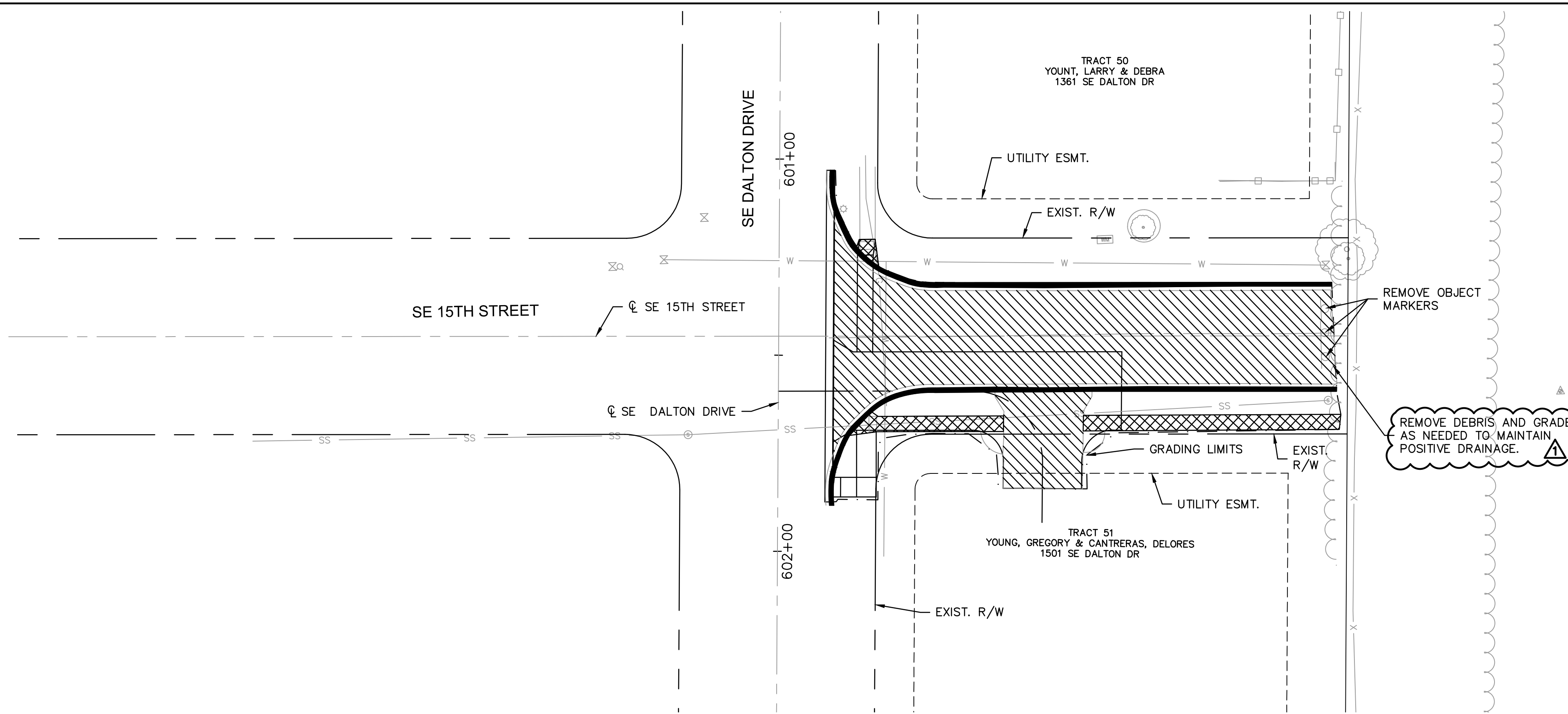
2021

REVISIONS

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_DEM01_0200103
 DATE: 2022-11-04

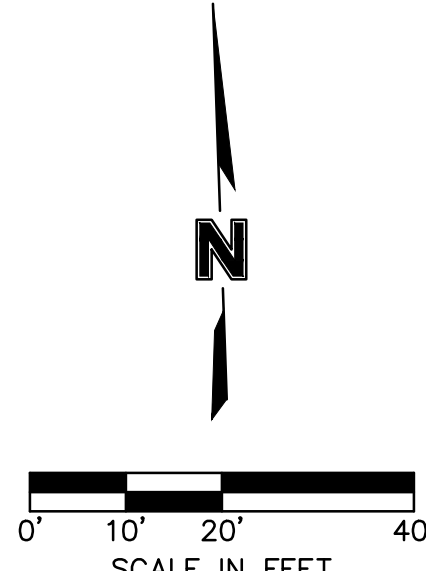
SHEET
 15 OF 101

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 USER: mrobertson T_RPP01_0200103



- LEGEND**
- FULL DEPTH ASPHALT PAVEMENT REMOVAL
 - FULL DEPTH CONCRETE PAVEMENT REMOVAL
 - CONCRETE SIDEWALK REMOVAL
 - CURB REMOVAL
 - STORM REMOVAL
 - TREE REMOVAL
 - HEDGE TREE REMOVAL
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REV. NO.	DATE	REVISIONS DESCRIPTION	BY
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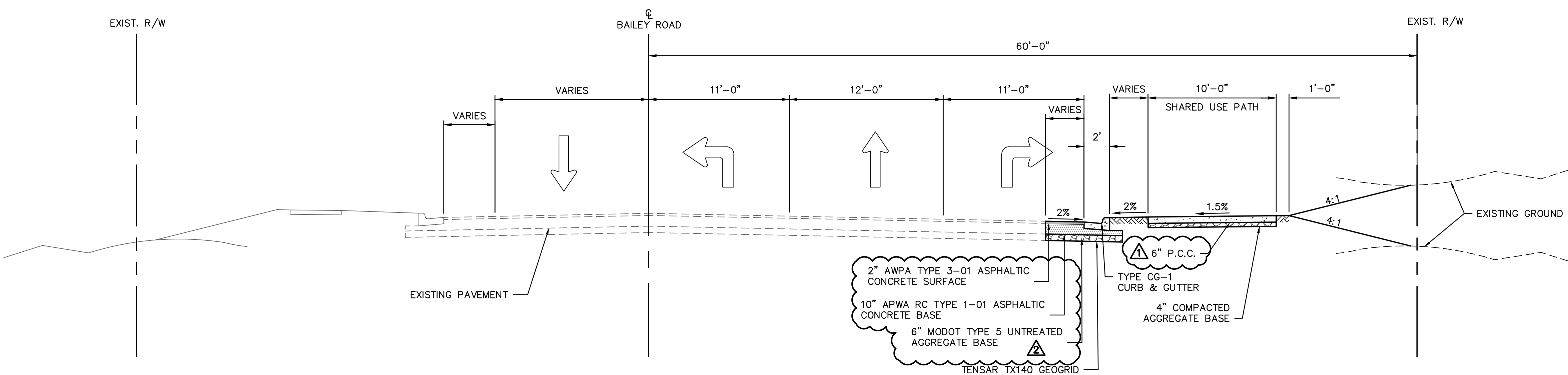
DEMOLITION & REMOVALS
 15TH STREET & CAPE DRIVE
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_DEM01_0200103
 DATE: 2022-11-04

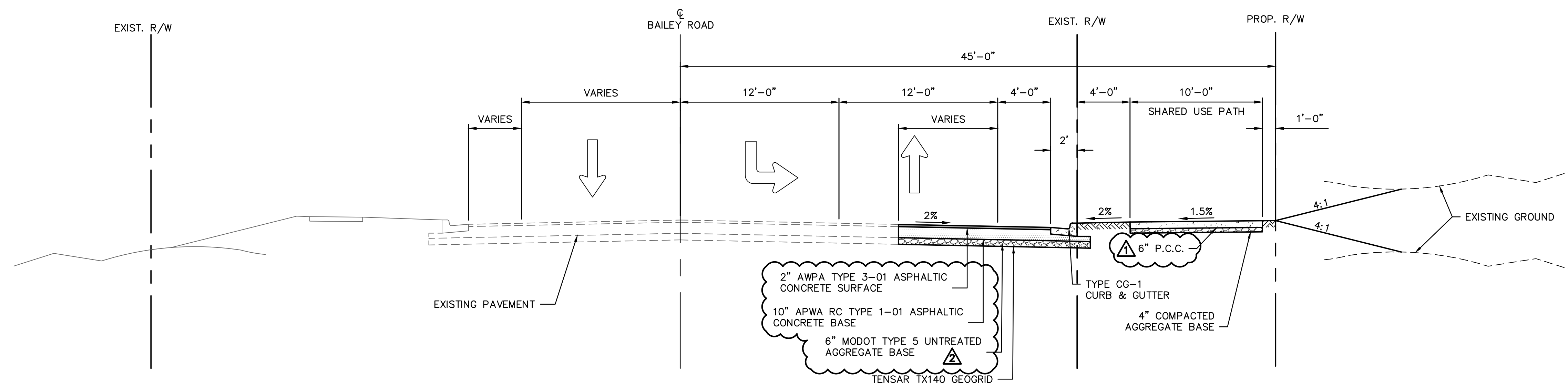
RECORD DRAWINGS

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 XREFS: T_PTBK_0200103



**TYPICAL SECTION
 BAILEY ROAD**
 NOT TO SCALE
 STA. 55+52.44 TO STA. 56+01.64



**TYPICAL SECTION
 BAILEY ROAD**
 NOT TO SCALE
 STA. 57+40.02 TO STA. 60+57.12
 STA. 86+04.25 TO STA. 86+38.73
 STA. 87+41.54 TO STA. 92+60.53
 STA. 93+71.24 TO STA. 95+72.70

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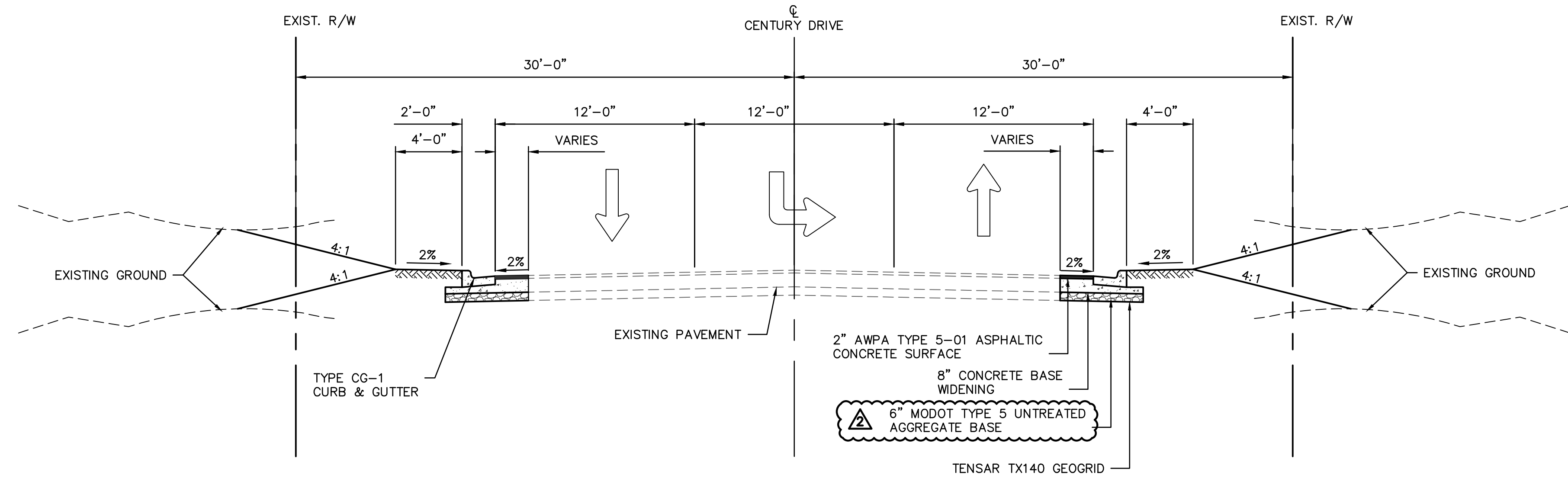
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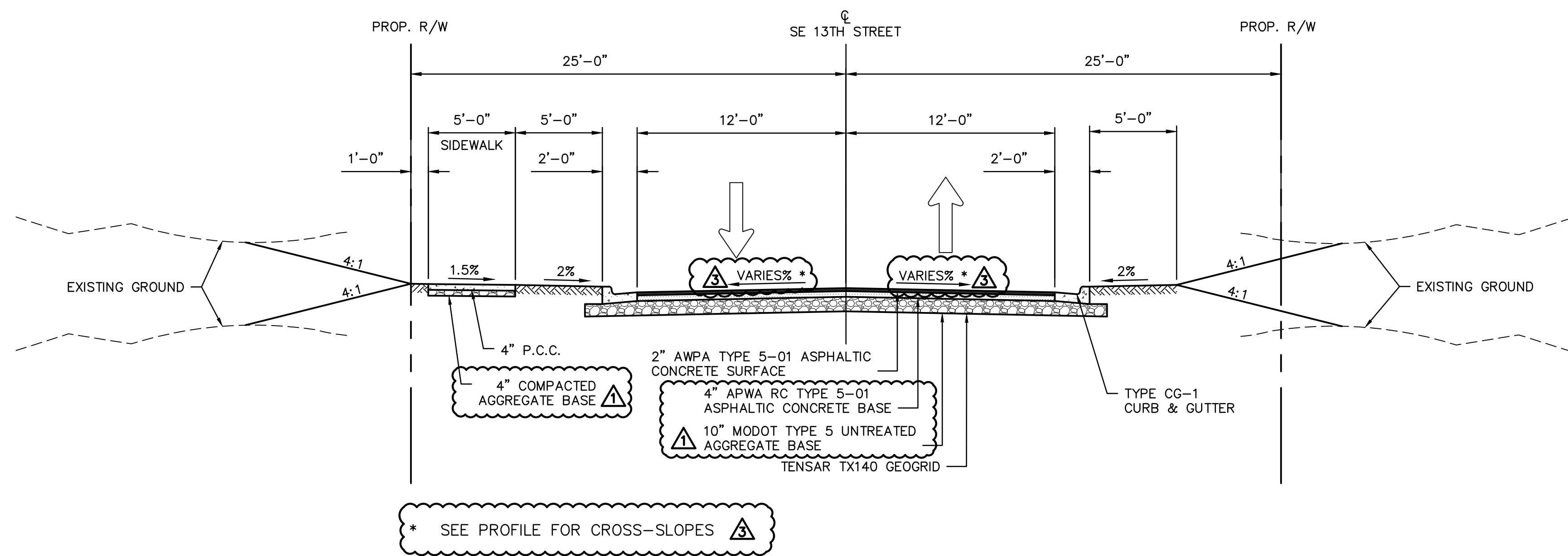
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LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_TYP01_0200103
 DATE: 2022-11-04

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 DATE: Nov 07, 2022 1:12pm XREFS: T_PTBK_0200103 USER: mrobertson



**TYPICAL SECTION
SE CENTURY DRIVE**
 NOT TO SCALE
 STA. 200+76.78 TO STA. 202+36.71



**TYPICAL SECTION
SE 13TH STREET**
 NOT TO SCALE
 STA. 353+02.70 TO STA. 353+35.59

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 Overland Park, KS 66213-4760 FAX: 913.381.1174 www.olsson.com

**RECORD
DRAWINGS**

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH
2	11/09/2021	ASI #37	RPH
3	05/11/2022	PLAN UPDATES	RPH

REVISIONS

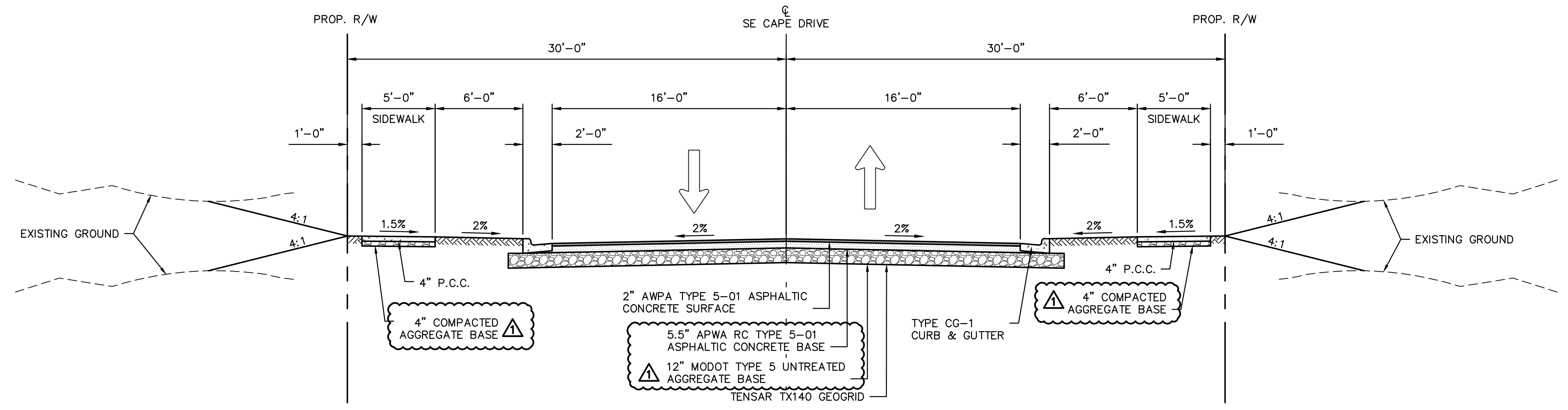
TYPICAL SECTIONS

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI 2021

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_TYP01_0200103
 DATE: 2022-11-04

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**TYPICAL SECTION
SE CAPE DRIVE**
 NOT TO SCALE
 STA. 301+01.09 TO STA. 301+21.99

olsson

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 7301 West 133rd Street, Suite 200 TEL: 913.381.1170
 Overland Park, KS 66213-4760 FAX: 913.381.1174 www.olsson.com

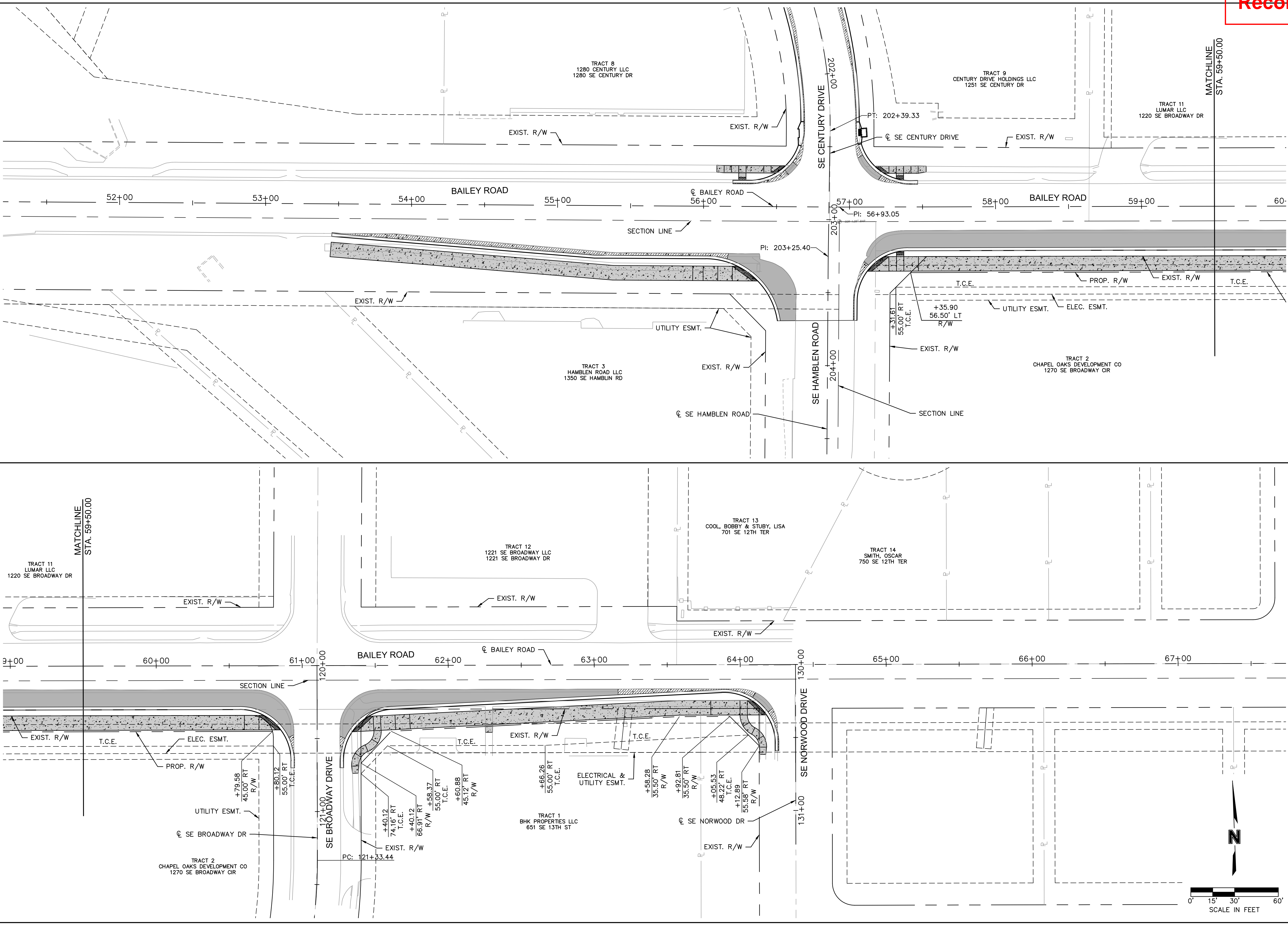
**RECORD
DRAWINGS**

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH

TYPICAL SECTIONS	2021
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
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 PROJECT NO.: 020-0103
 DWG NO.: T_TYP01_0200103
 DATE: 2022-11-04

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 USER: mrobertson V_XBOU_2_00103



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RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

RIGHT OF WAY PLANS
 BAILEY ROAD

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

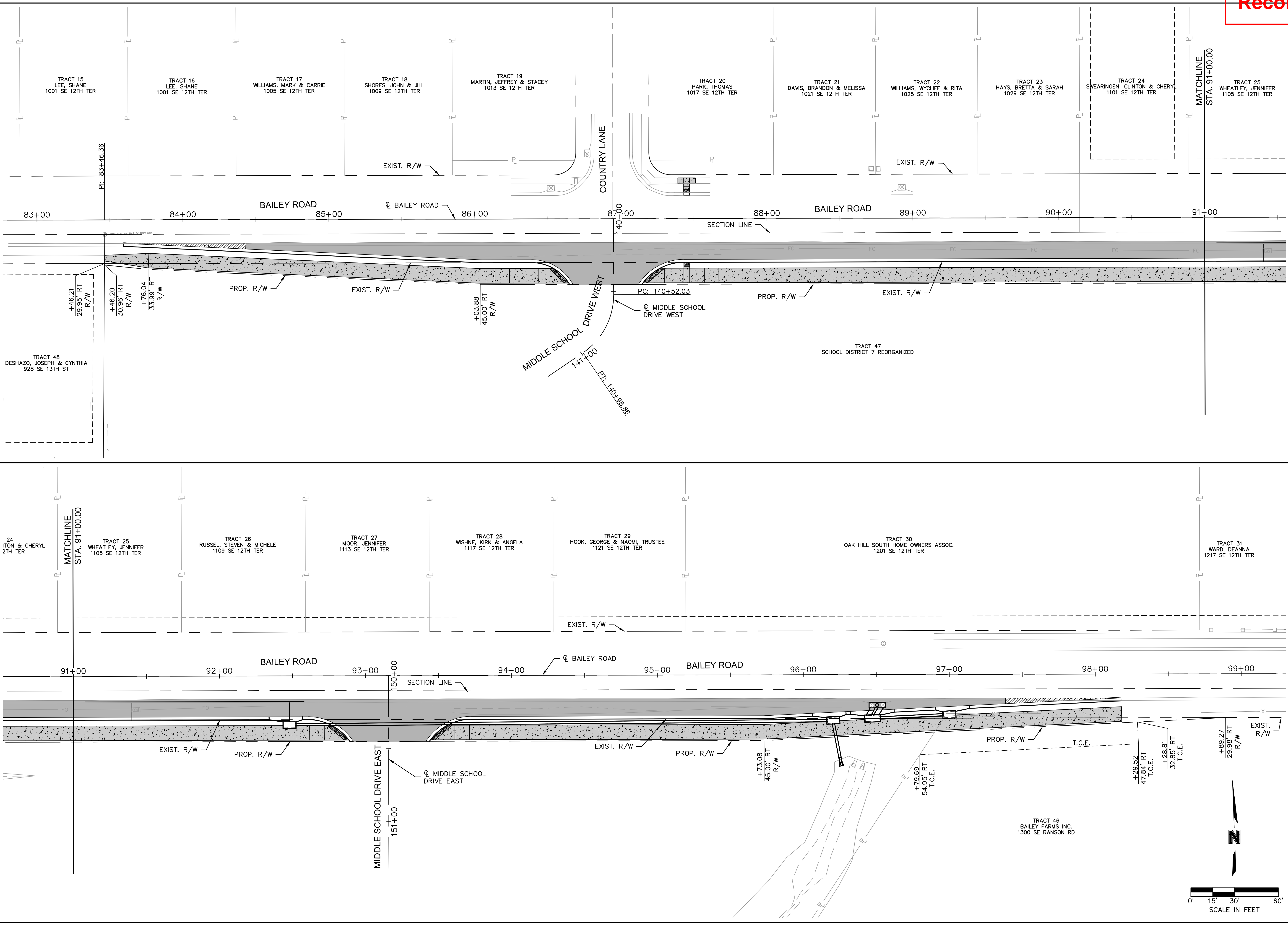
LEE'S SUMMIT, MISSOURI

2021

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_ROW01_0200103
 DATE: 2022-11-04

SHEET 20 OF 101

DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Streets\ROBR\Lee Summit Plan Set - (Century and Middle School Drives)\R.O.W. AND EASEMENT PLANS\T_ROW01_0200103.dwg
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 USER: mrobertson



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RECORD DRAWINGS

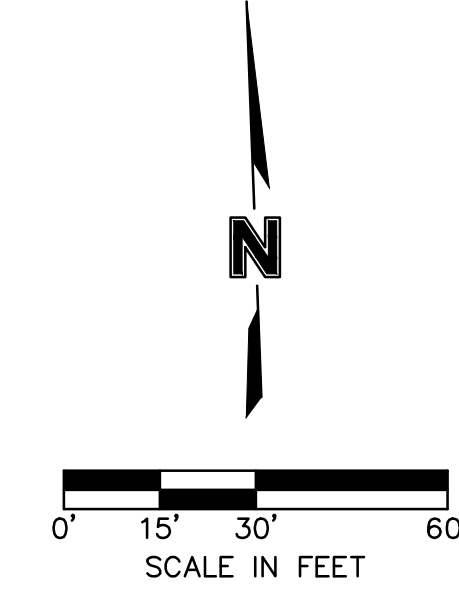
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RIGHT OF WAY PLANS
BAILEY ROAD
LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

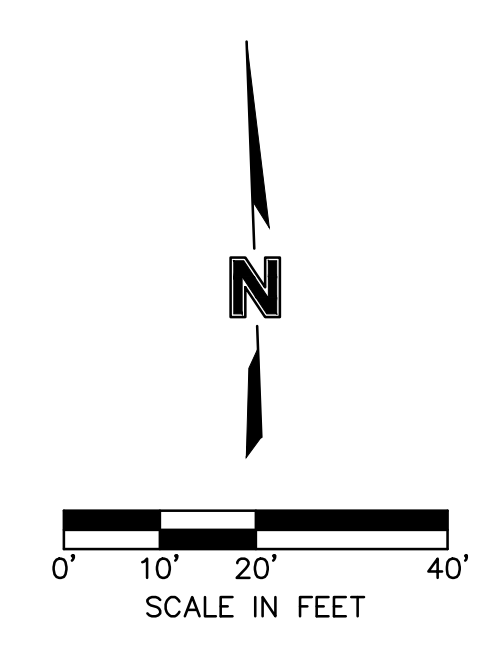
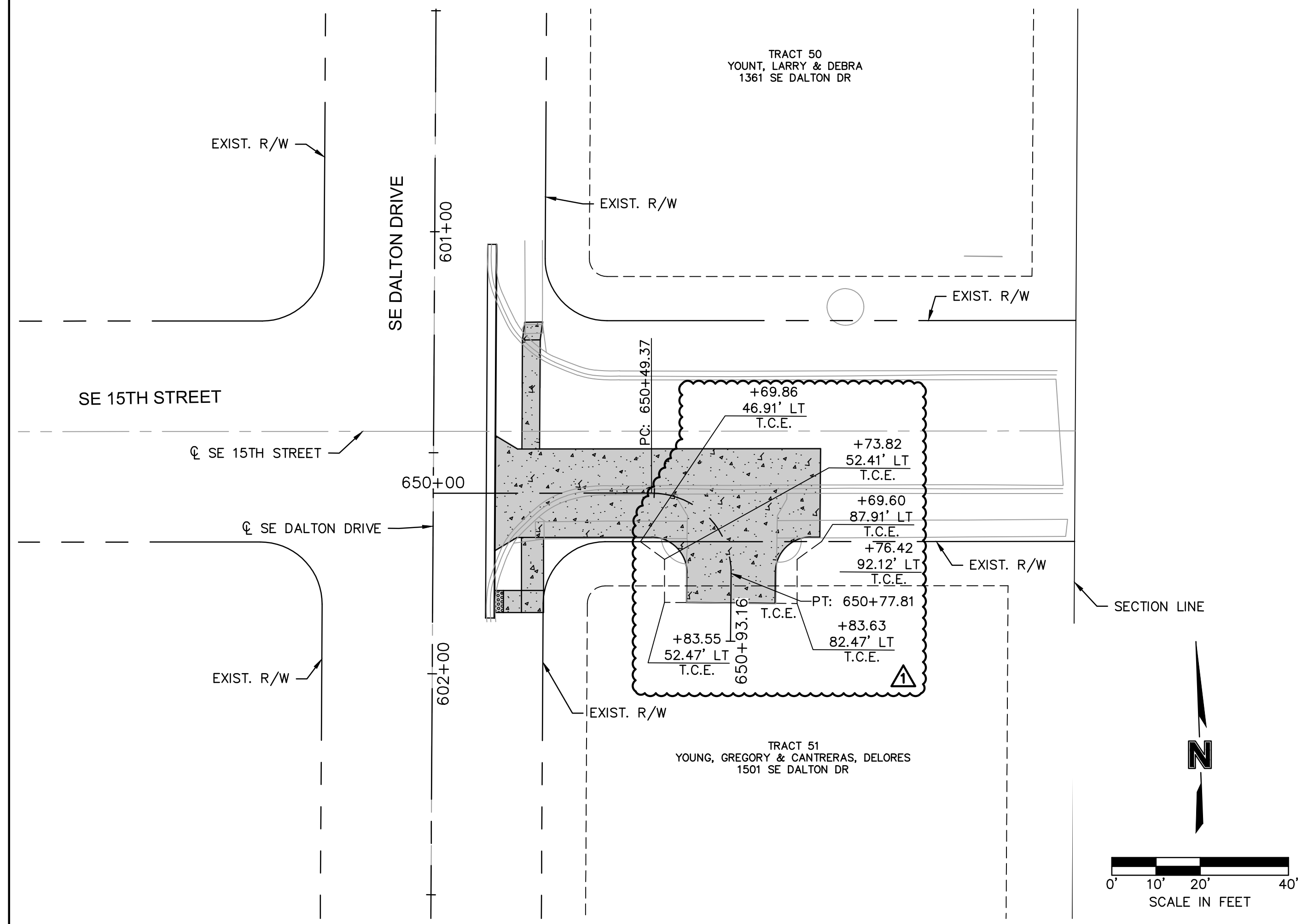
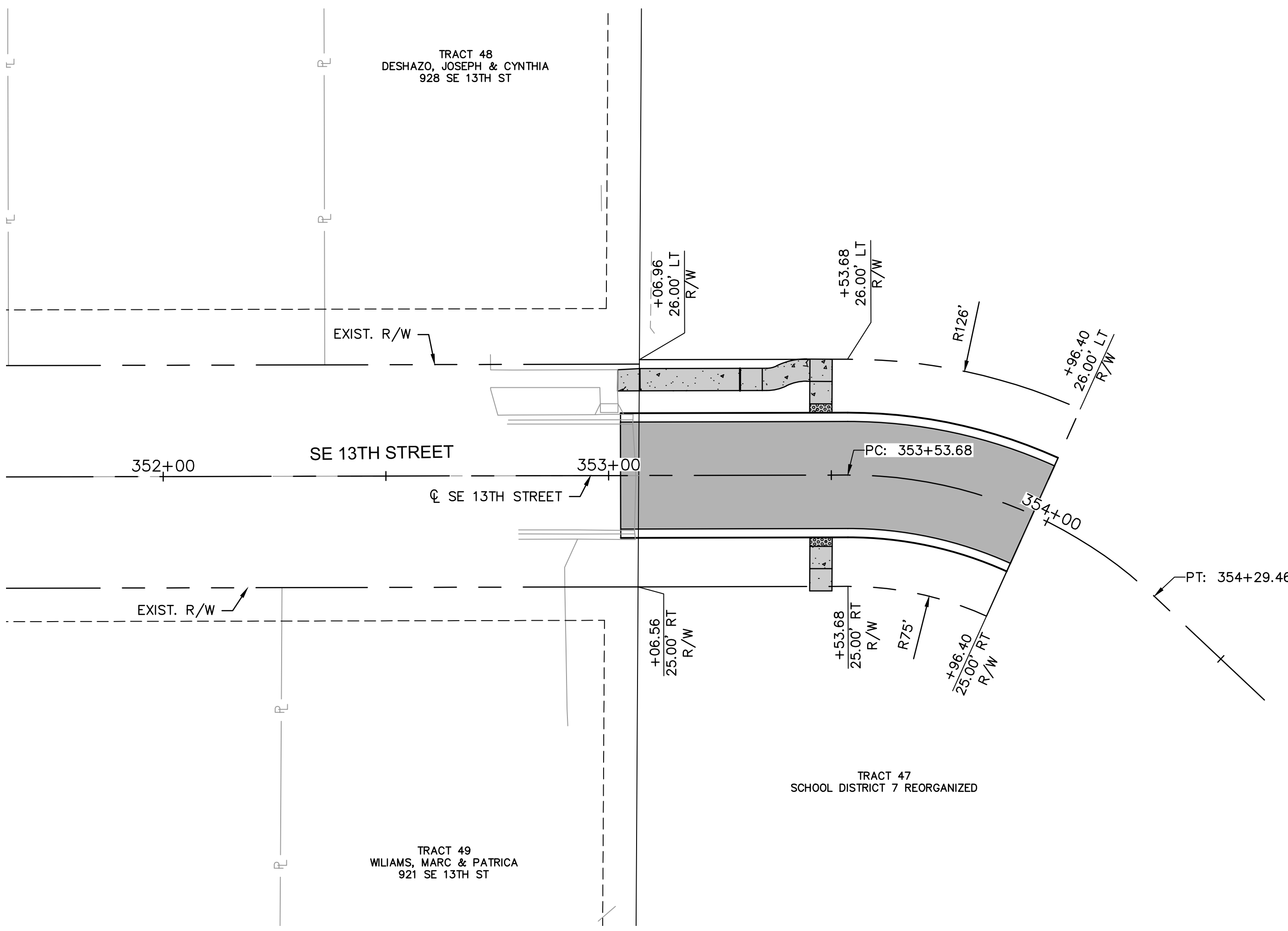
2021

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 DWG NO.: T_ROW01_0200103
 DATE: 2022-11-04

SHEET 21 OF 101



DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Streets\RDBR\Lee Summit Plan Set - (Century and Middle School Drives)\R.O.W. AND EASEMENT PLANS\T_ROW01_0200103.dwg
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REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH

RIGHT OF WAY PLANS
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

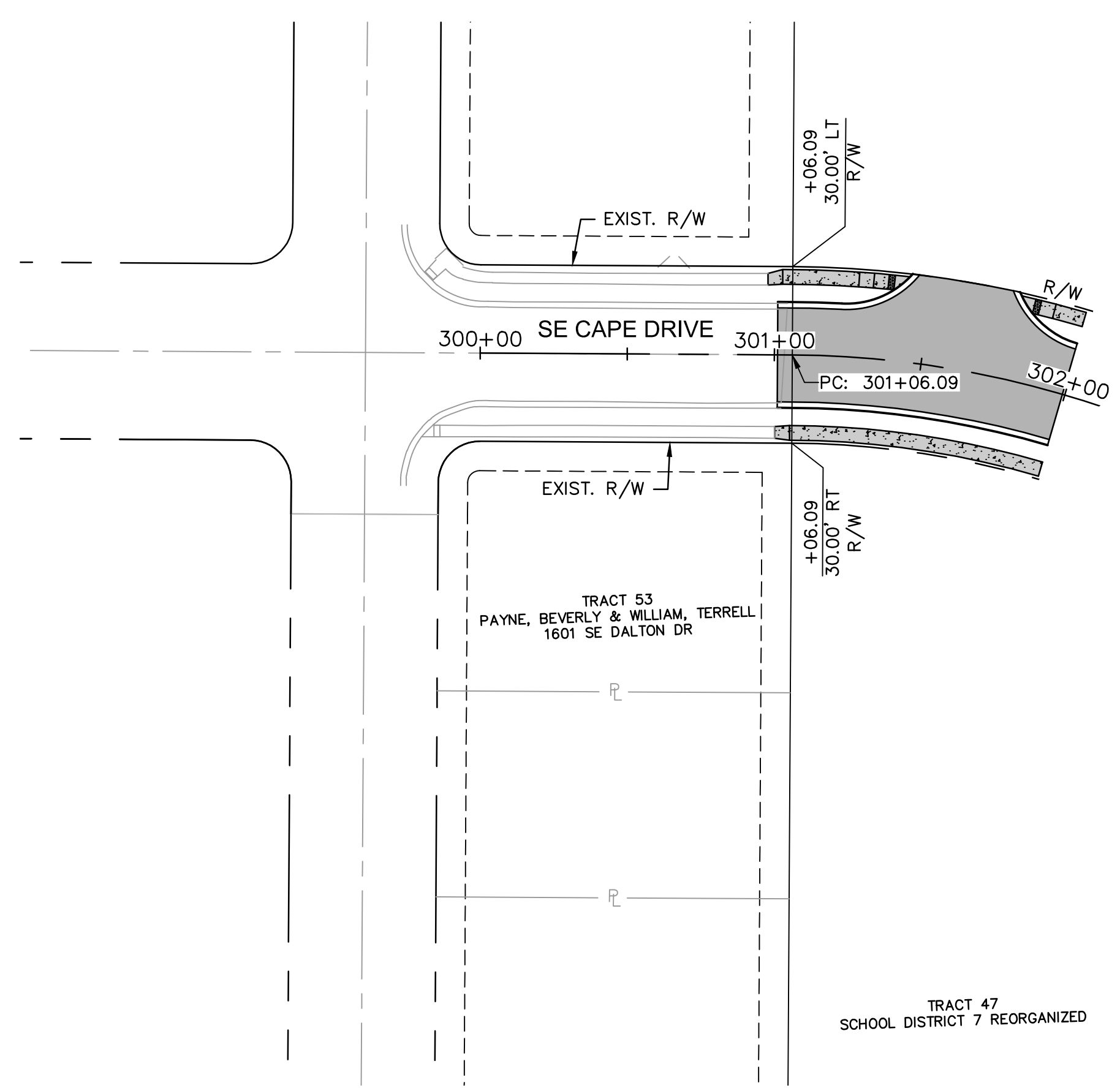
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 PROJECT NO.: 020-0103
 DWG NO.: T_ROW01_0200103
 DATE: 2022-11-04

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REVISIONS

DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Streets\ROBR\Lee Summit Plan Set - (Century and Middle School Drives)\R.O.W AND EASEMENT PLANS\T_ROW01_0200103.dwg
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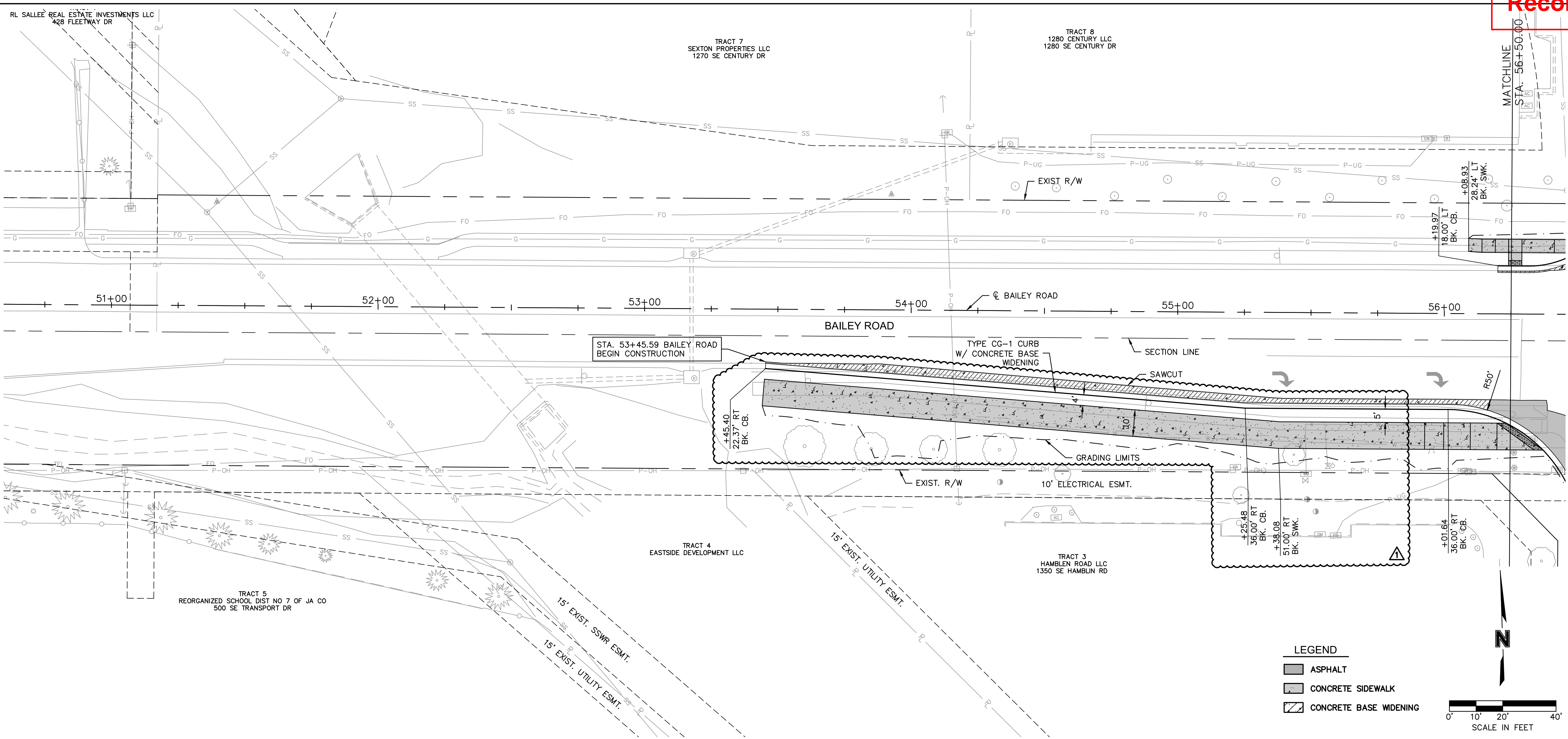
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REVISIONS

RIGHT OF WAY PLANS
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

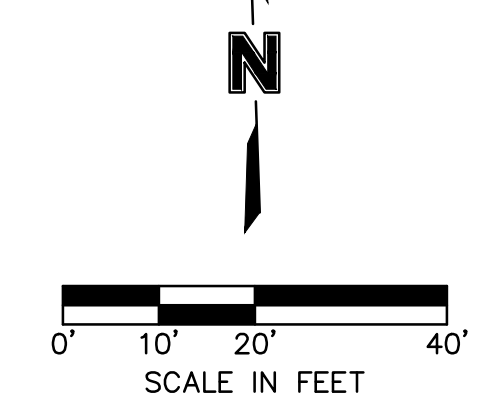
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 DATE: 2022-11-04

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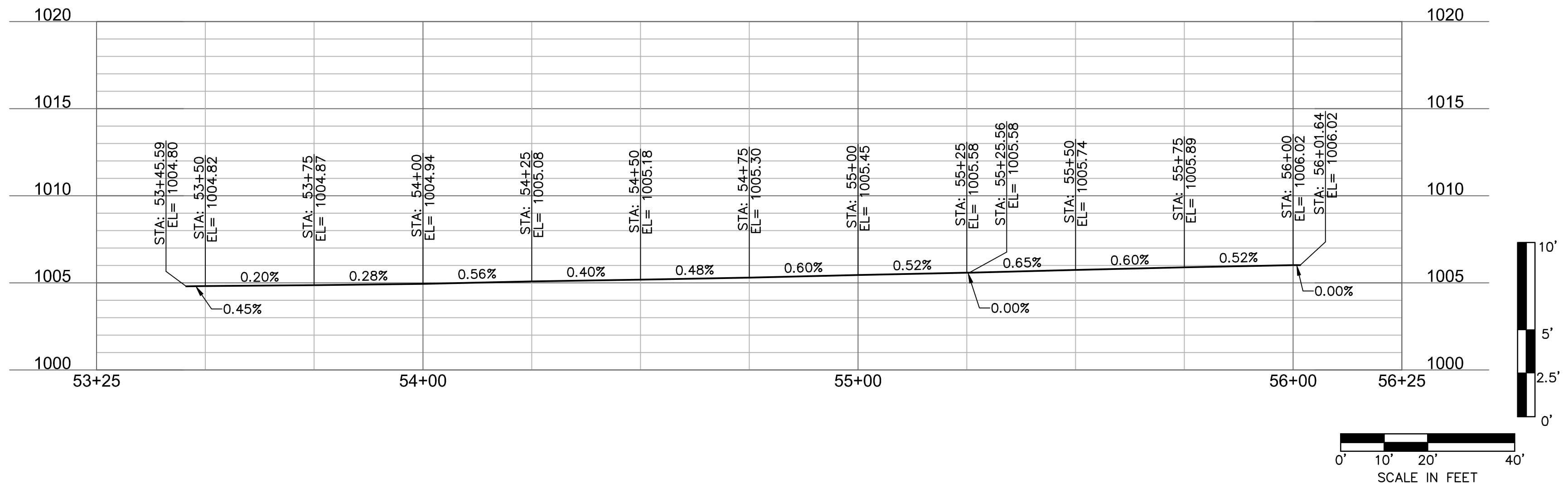


LEGEND

- ASPHALT
- CONCRETE SIDEWALK
- CONCRETE BASE WIDENING



BAILEY ROAD RIGHT EDGE OF PAVEMENT



REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH

NO.	DESCRIPTION	DATE

PLAN & EDGE OF PAVEMENT PROFILE
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

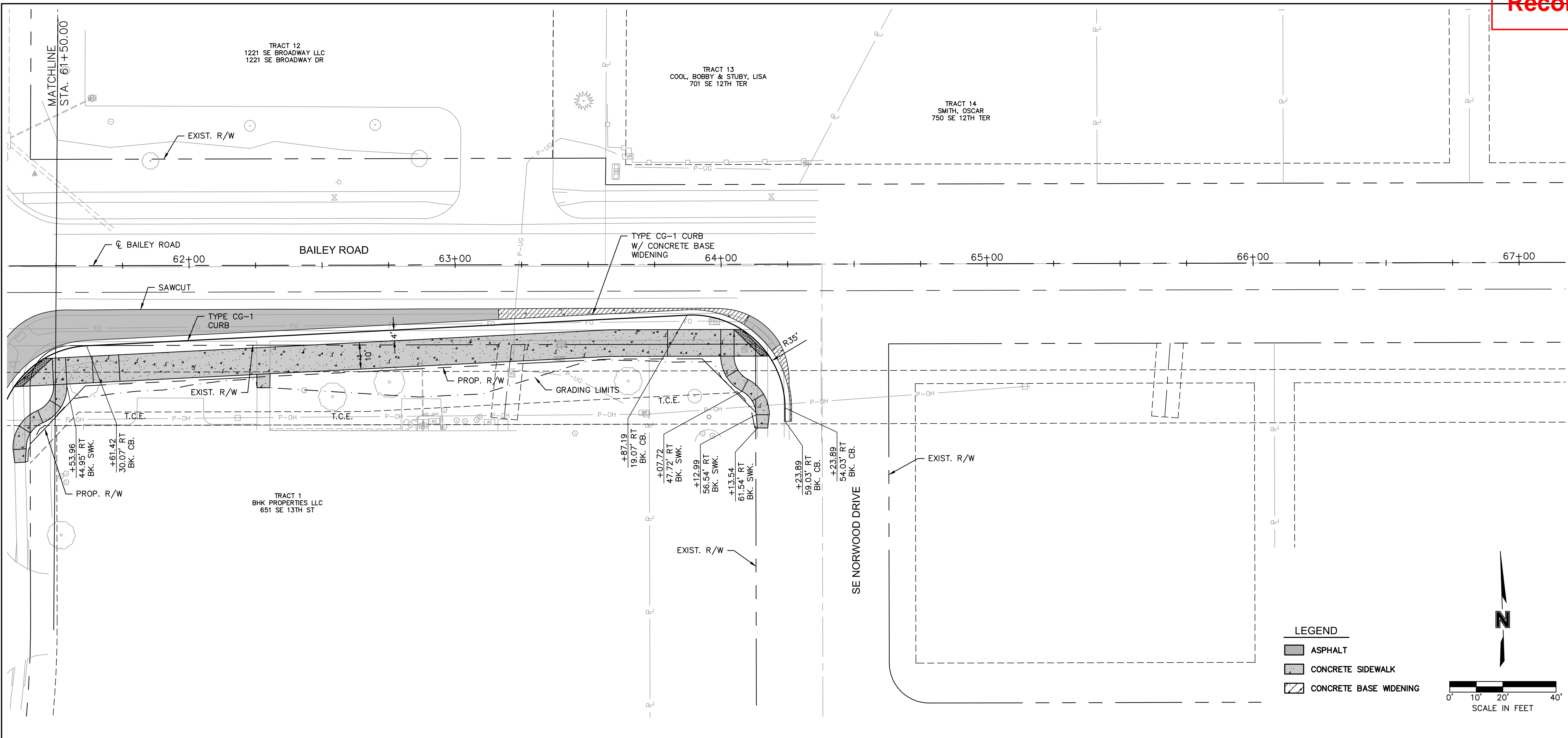
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 DWG NO.: T_RPP01_0200103
 DATE: 2022-11-04

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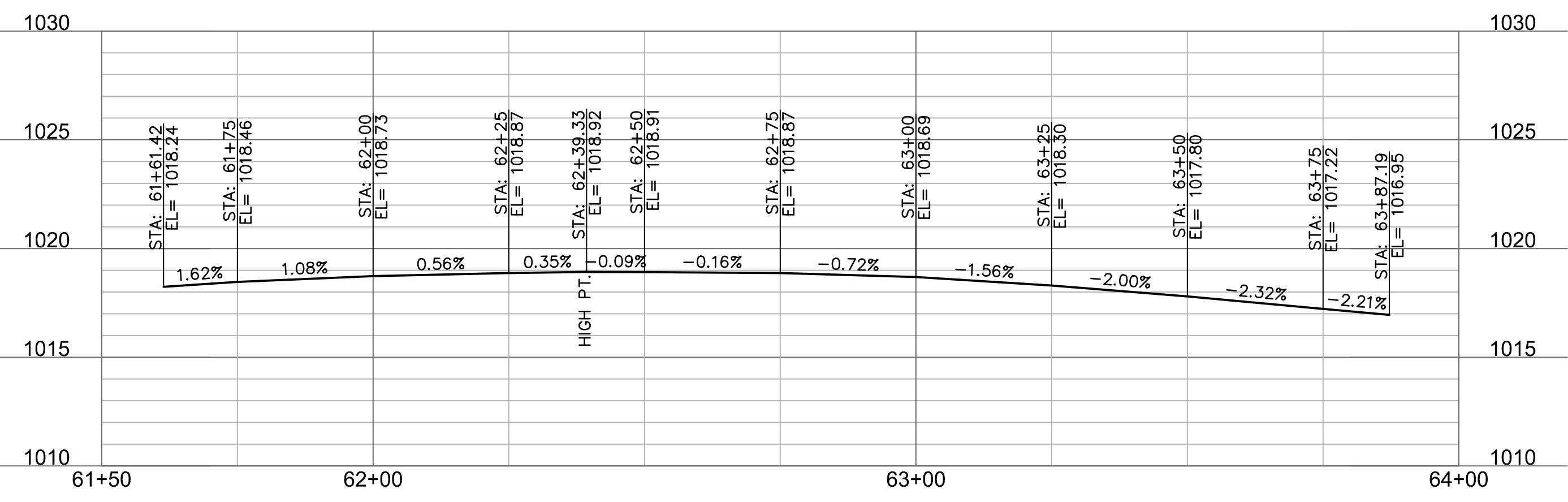
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 Overland Park, KS 66213-4760 FAX: 913.381.1174 www.olsson.com

USER: mrobertson

DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\ROBR\Lee Summit Plan Set - (Century and Middle School Drives)\PLAN & PROFILES\BAILEY ROAD.T_RPP03_0200103.dwg
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BAILEY ROAD RIGHT EDGE OF PAVEMENT



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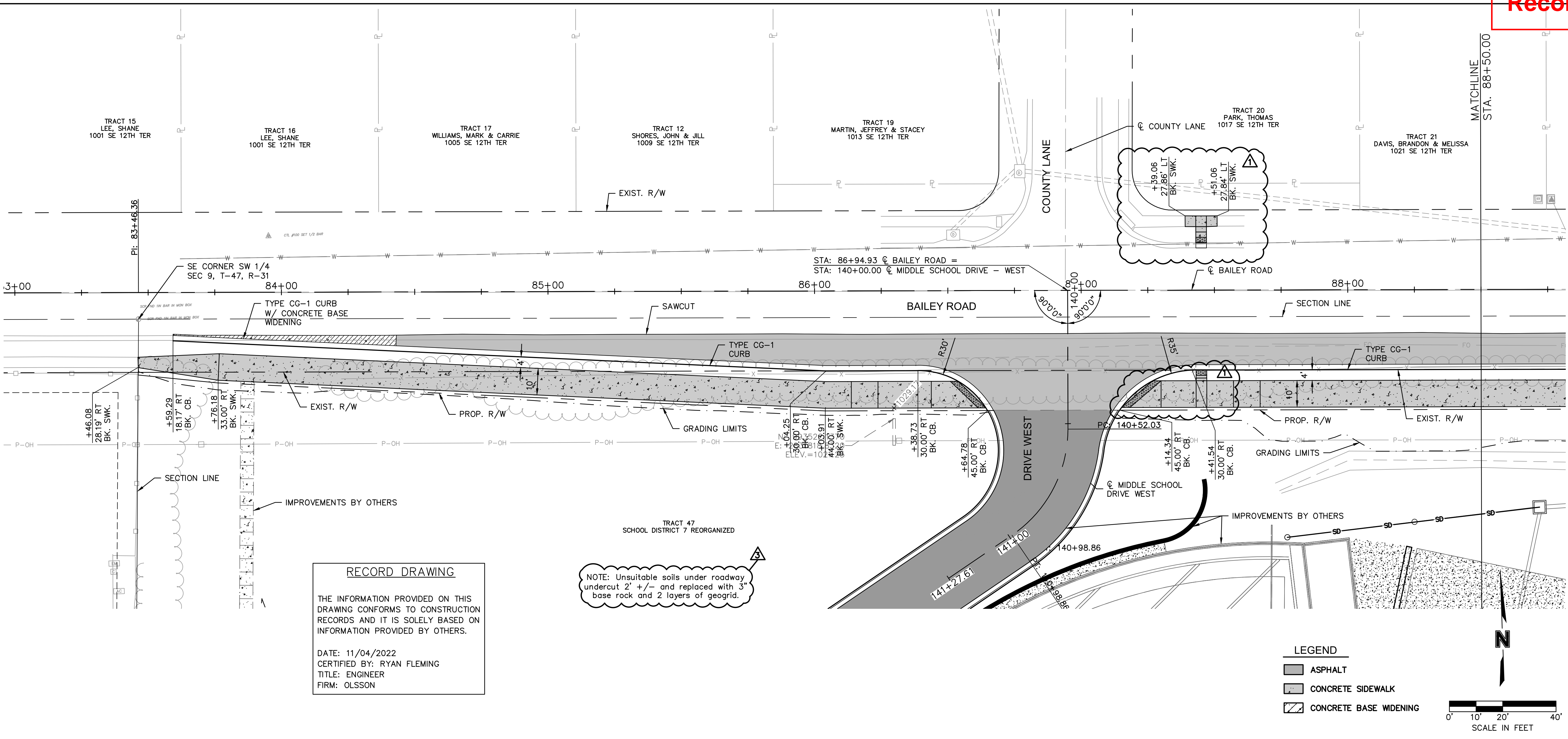
REV. NO.	DATE	REVISIONS DESCRIPTION	BY

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

PLAN & EDGE OF PAVEMENT PROFILE
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_RPP03_0200103
 DATE: 2022-11-04

DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\RDBR\Lee Summit Plan Set - (Century and Middle School Drives)\PLAN & PROFILES\BAILEY ROAD\T_RPP04_0200103.dwg
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 USER: mrobertson T_PP04_0200103



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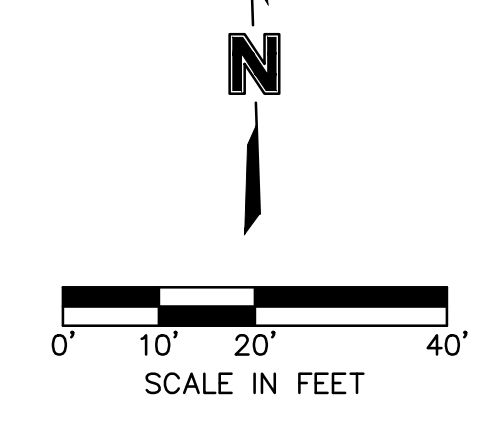
THE INFORMATION PROVIDED ON THIS DRAWING CONFORMS TO CONSTRUCTION RECORDS AND IT IS SOLELY BASED ON INFORMATION PROVIDED BY OTHERS.

DATE: 11/04/2022
 CERTIFIED BY: RYAN FLEMING
 TITLE: ENGINEER
 FIRM: OLSSON

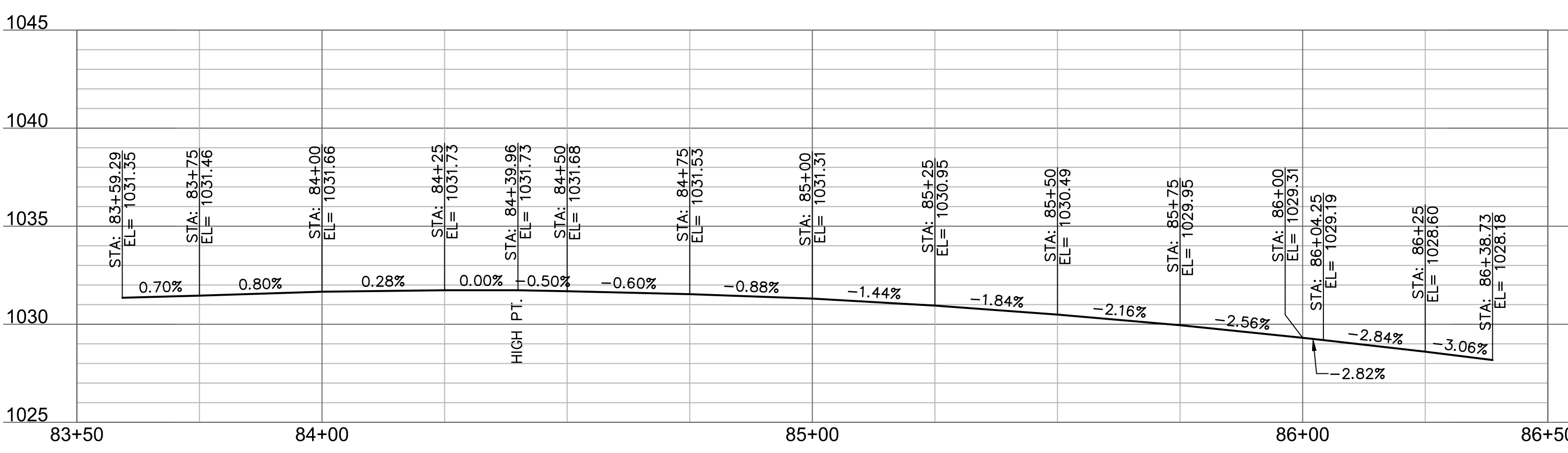
NOTE: Unsuitable soils under roadway undercut 2' +/- and replaced with 3" base rock and 2 layers of geogrid.

LEGEND

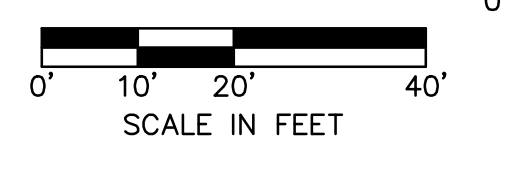
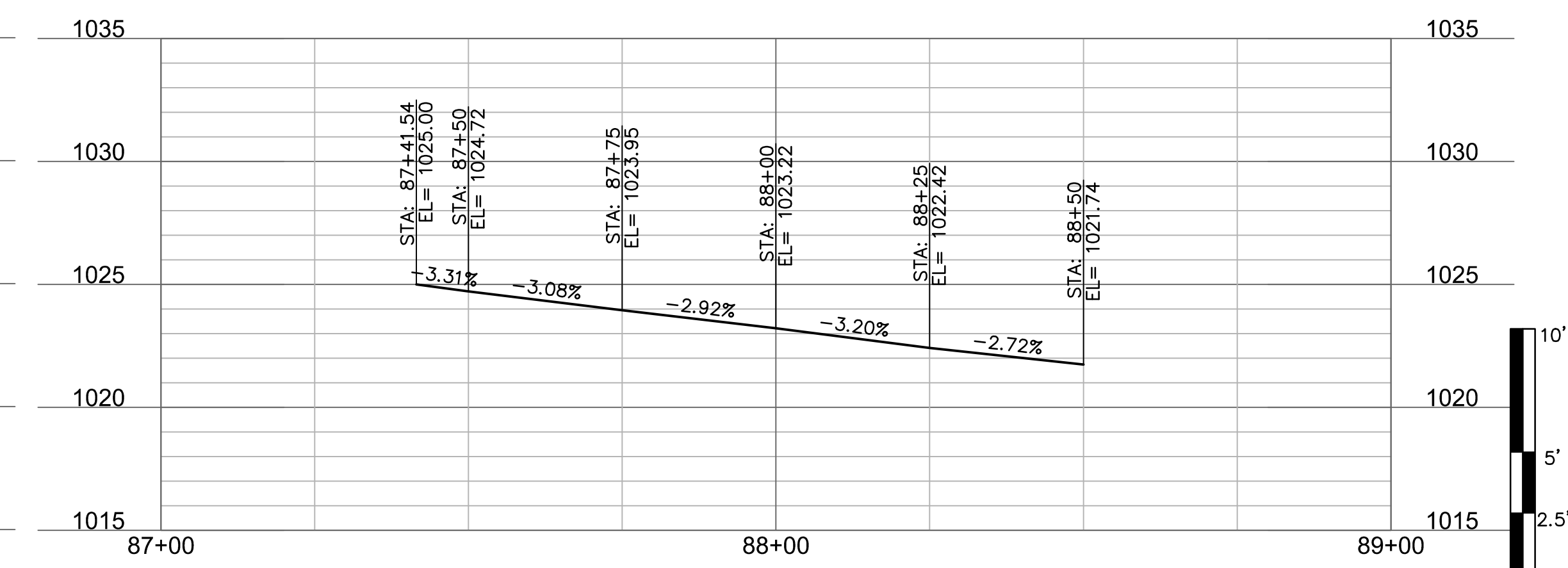
- ASPHALT
- CONCRETE SIDEWALK
- CONCRETE BASE WIDENING



BAILEY ROAD RIGHT EDGE OF PAVEMENT



BAILEY ROAD RIGHT EDGE OF PAVEMENT



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RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
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3	11/04/2022	RECORD DRAWING REVISIONS	MAR

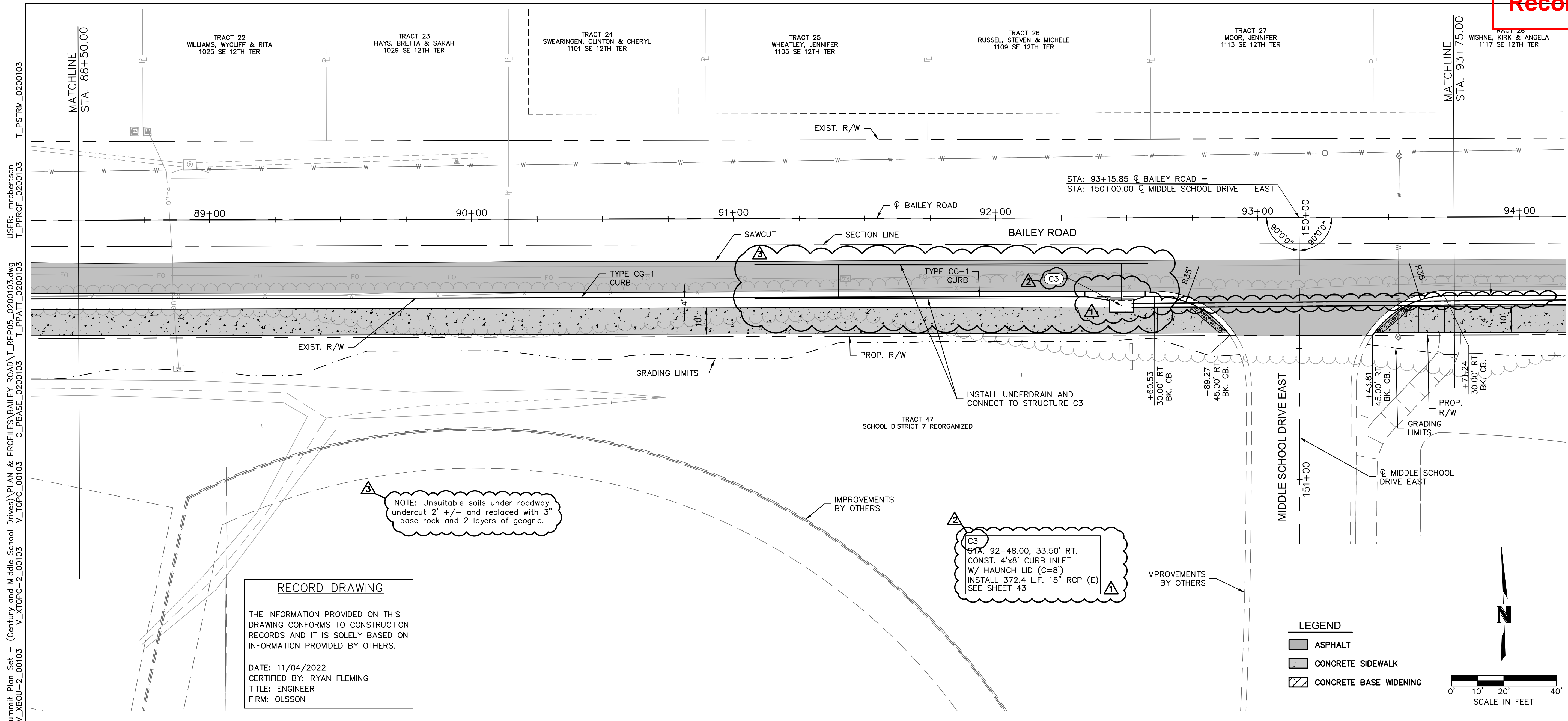
PLAN & EDGE OF PAVEMENT PROFILE
 BAILEY ROAD

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

2021

C.O.A. NO.:	001592
DRAWN BY:	MLW
CHECKED BY:	RPH
APPROVED BY:	RBE
QA/QC BY:	RBE
PROJECT NO.:	020-0103
DWG NO.:	T_RPP04_0200103
DATE:	2022-11-04

SHEET 27 OF 101



RECORD DRAWING

THE INFORMATION PROVIDED ON THIS DRAWING CONFORMS TO CONSTRUCTION RECORDS AND IT IS SOLELY BASED ON INFORMATION PROVIDED BY OTHERS.

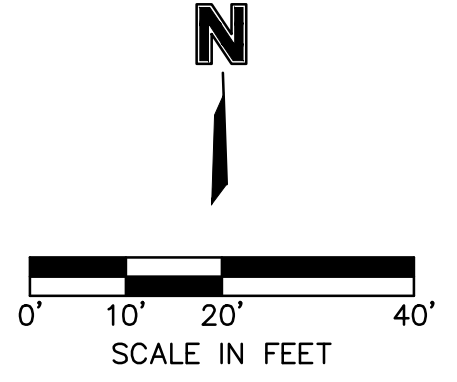
DATE: 11/04/2022
 CERTIFIED BY: RYAN FLEMING
 TITLE: ENGINEER
 FIRM: OLSSON

NOTE: Unsuitable soils under roadway undercut 2' +/- and replaced with 3" base rock and 2 layers of geogrid.

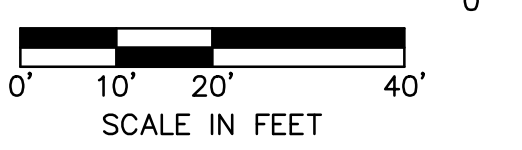
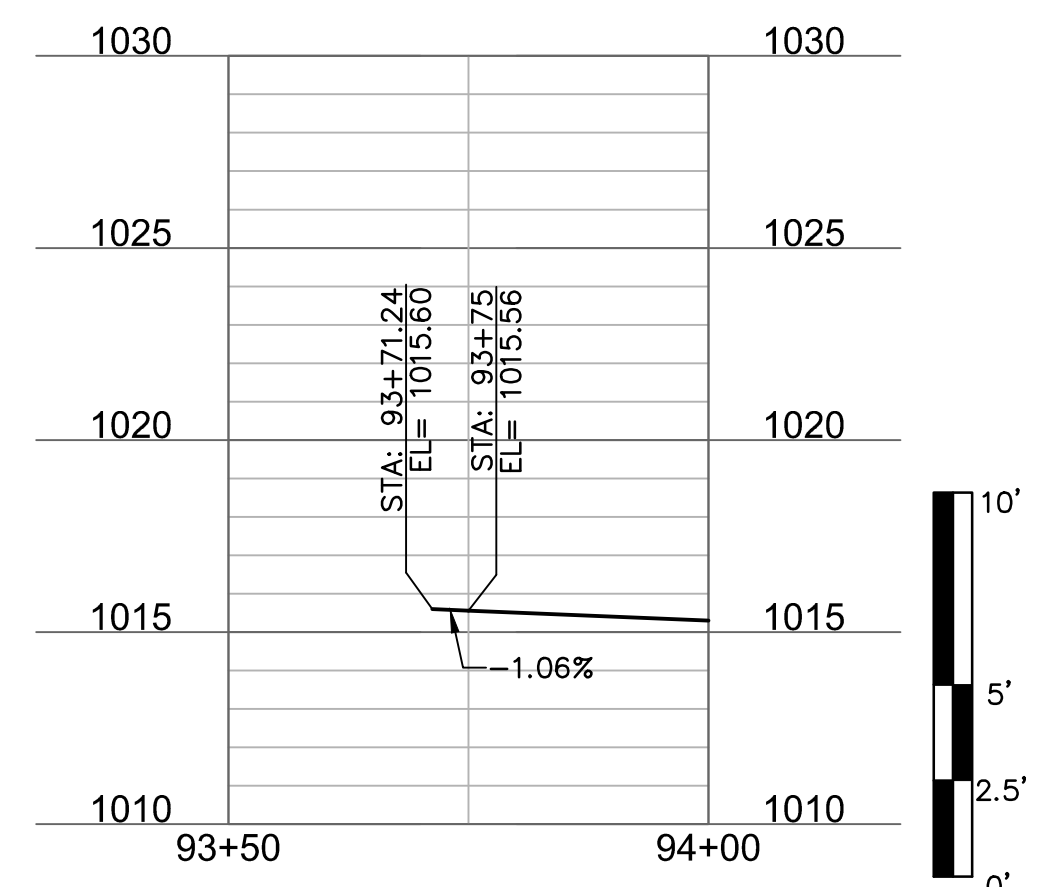
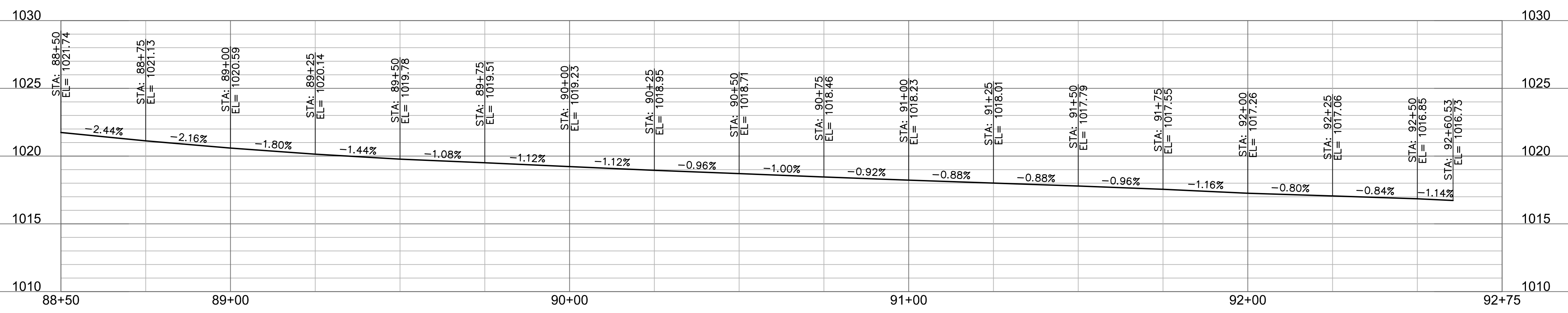
C3
 STA. 92+48.00, 33.50' RT.
 CONST. 4'x8' CURB INLET
 W/ HAUNCH LID (C=8")
 INSTALL 372.4 L.F. 15" RCP (E)
 SEE SHEET 43

LEGEND

- ASPHALT
- CONCRETE SIDEWALK
- CONCRETE BASE WIDENING



BAILEY ROAD RIGHT EDGE OF PAVEMENT



DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\RD\Lee Summit Plan Set - (Century and Middle School Drives)\PLAN & PROFILES\BAILEY ROAD.T_RPP05_0200103.dwg
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 USER: mrobertson

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RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH
2	10/20/2021	STORM SEWER REVISION	RPH
3	11/04/2022	RECORD DRAWING REVISIONS	MAR

PLAN & EDGE OF PAVEMENT PROFILE
 BAILEY ROAD

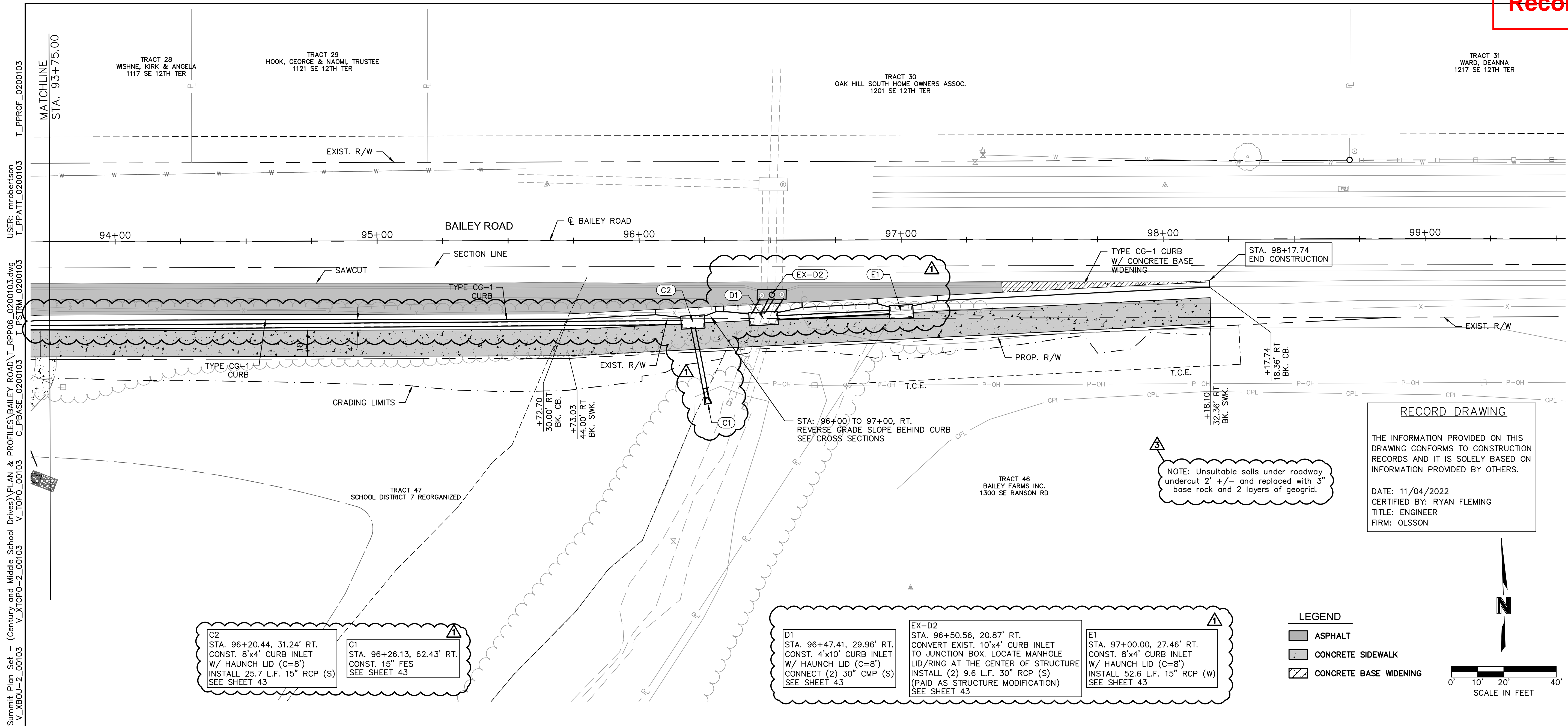
LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2021

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_RPP05_0200103
 DATE: 2022-11-04

SHEET 28 OF 101



C2
STA. 96+20.44, 31.24' RT.
CONST. 8'x4' CURB INLET
W/ HAUNCH LID (C=8)
INSTALL 25.7 L.F. 15" RCP (S)
SEE SHEET 43

C1
STA. 96+26.13, 62.43' RT.
CONST. 15" FES
SEE SHEET 43

D1
STA. 96+47.41, 29.96' RT.
CONST. 4'x10' CURB INLET
W/ HAUNCH LID (C=8)
CONNECT (2) 30" CMP (S)
SEE SHEET 43

EX-D2
STA. 96+50.56, 20.87' RT.
CONVERT EXIST. 10'x4' CURB INLET
TO JUNCTION BOX. LOCATE MANHOLE
LID/RING AT THE CENTER OF STRUCTURE
INSTALL (2) 9.6 L.F. 30" RCP (S)
(PAID AS STRUCTURE MODIFICATION)
SEE SHEET 43

E1
STA. 97+00.00, 27.46' RT.
CONST. 8'x4' CURB INLET
W/ HAUNCH LID (C=8)
INSTALL 52.6 L.F. 15" RCP (W)
SEE SHEET 43

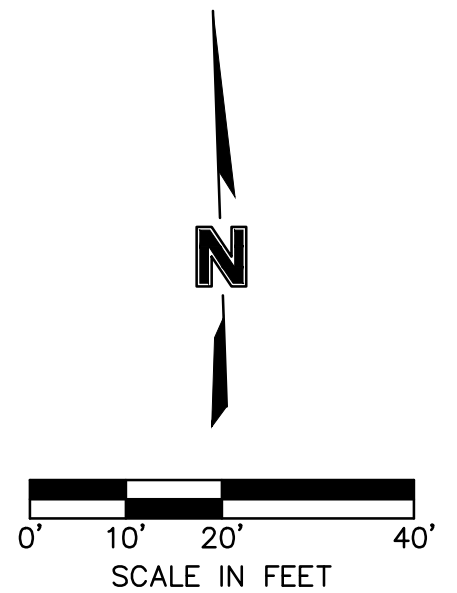
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THE INFORMATION PROVIDED ON THIS DRAWING CONFORMS TO CONSTRUCTION RECORDS AND IT IS SOLELY BASED ON INFORMATION PROVIDED BY OTHERS.

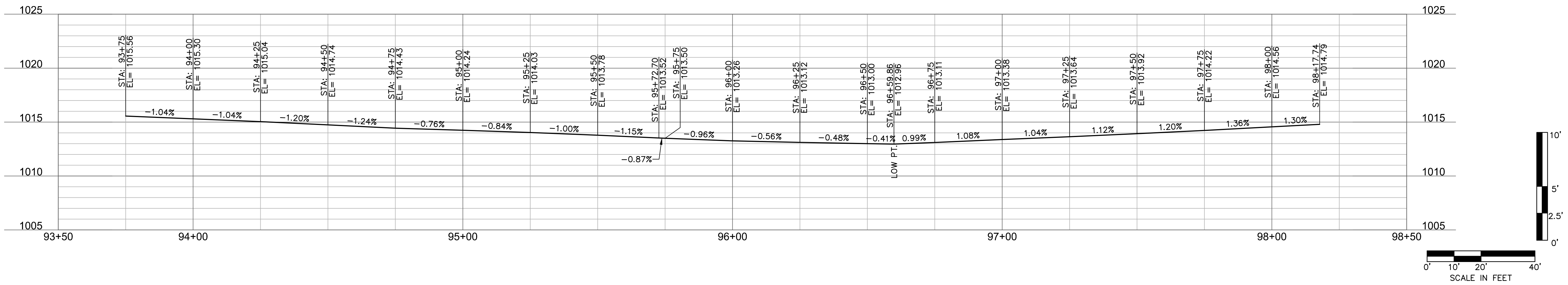
DATE: 11/04/2022
CERTIFIED BY: RYAN FLEMING
TITLE: ENGINEER
FIRM: OLSSON

LEGEND

- ASPHALT
- CONCRETE SIDEWALK
- CONCRETE BASE WIDENING



BAILEY ROAD RIGHT EDGE OF PAVEMENT



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RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPL
3	11/04/2022	RECORD DRAWING REVISIONS	MAR

REVISIONS

2021

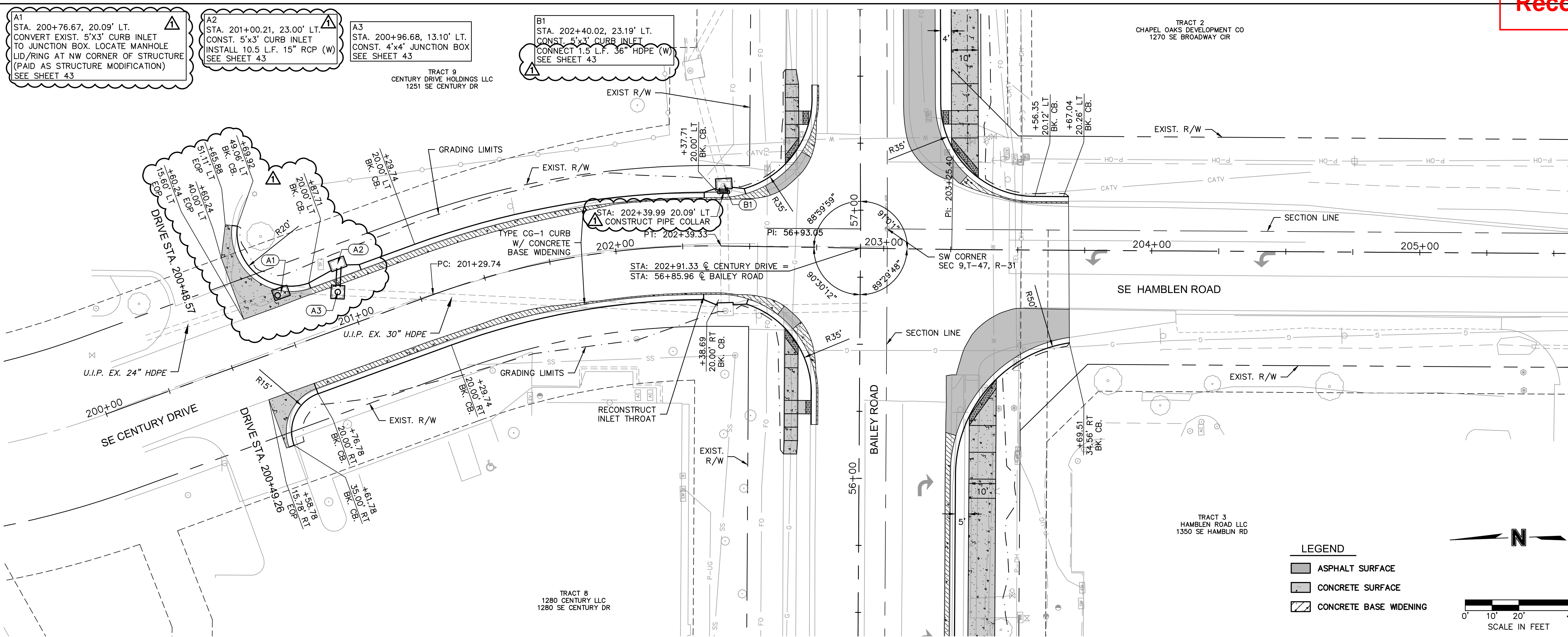
PLAN & EDGE OF PAVEMENT PROFILE
BAILEY ROAD
LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS
LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
DRAWN BY: MLW
CHECKED BY: RPH
APPROVED BY: RBE
QA/QC BY: RBE
PROJECT NO.: 020-0103
DWG NO.: T_RPP06_0200103
DATE: 2022-11-04

SHEET 29 OF 101

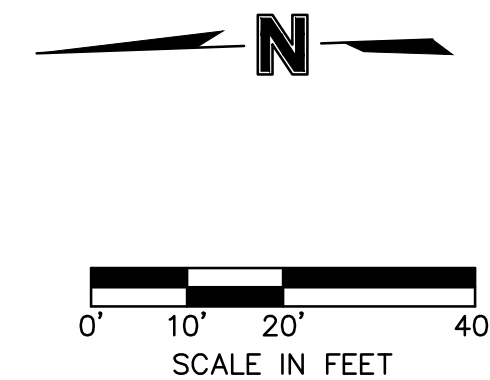
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 USER: mrobertson

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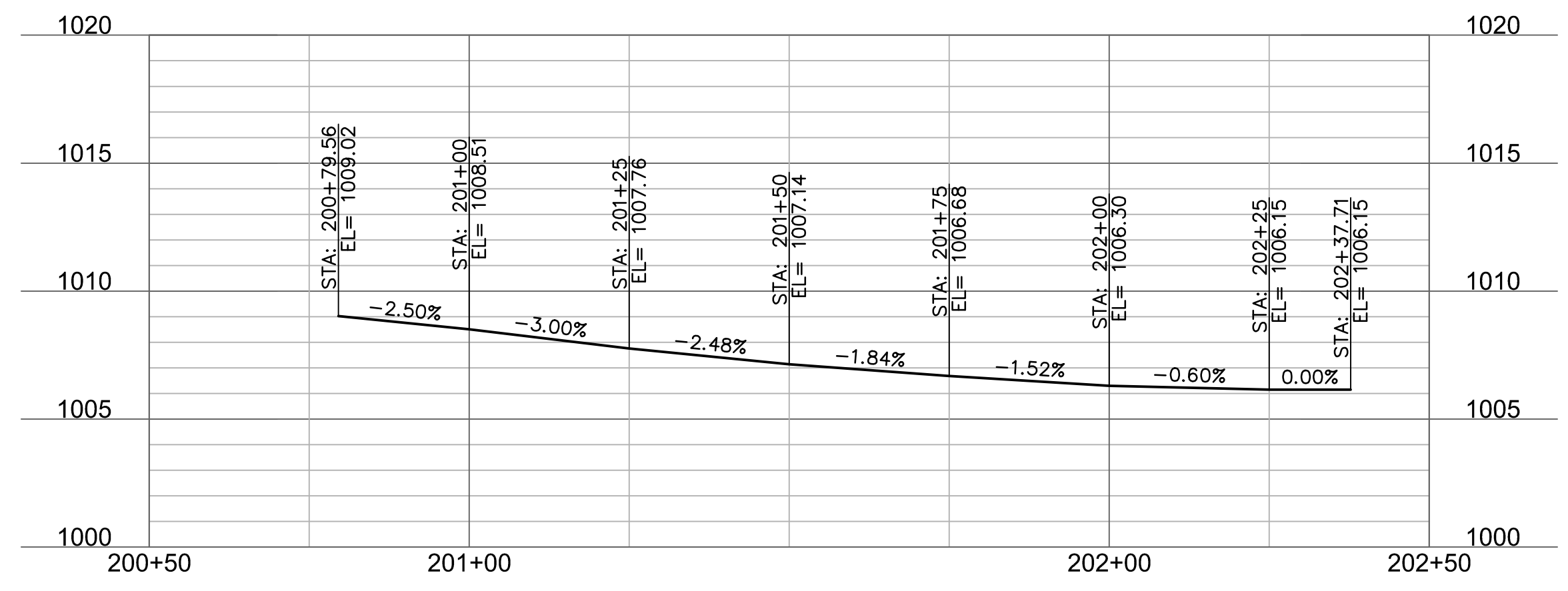


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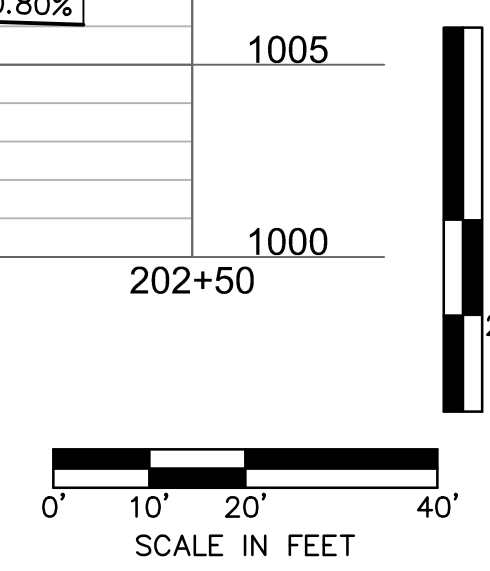
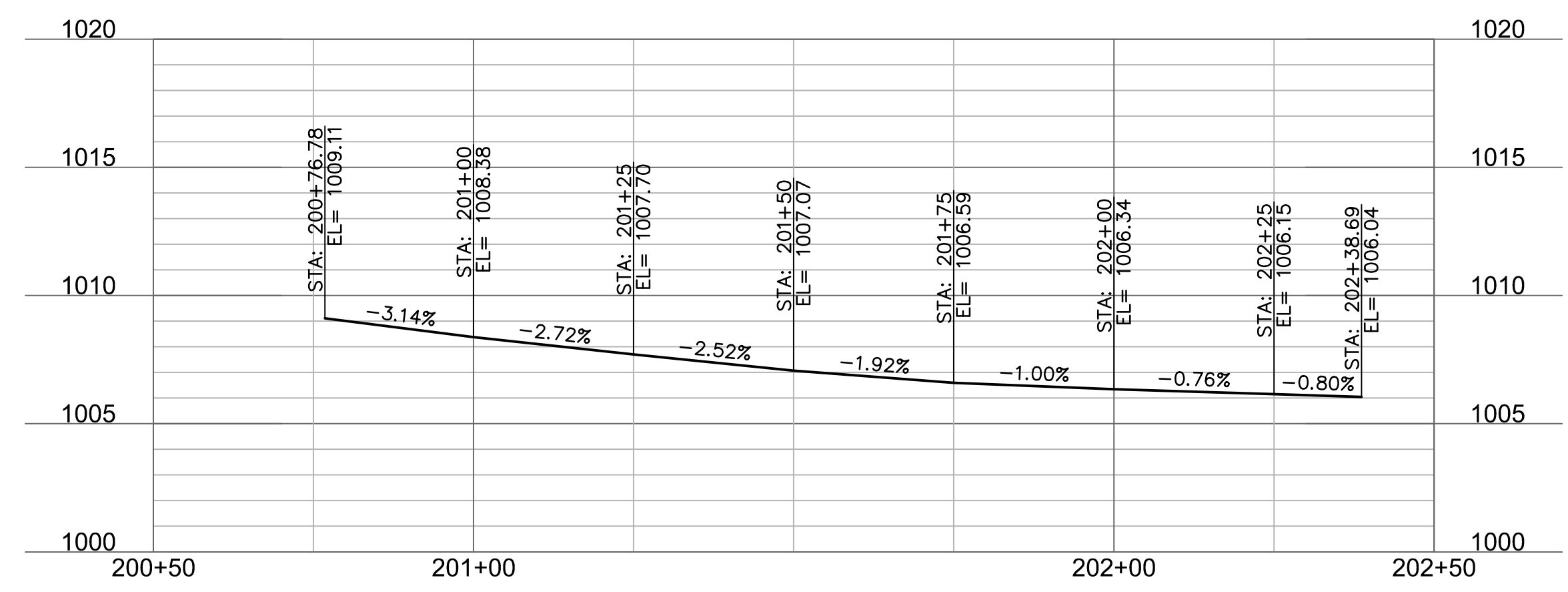
- ASPHALT SURFACE
- CONCRETE SURFACE
- CONCRETE BASE WIDENING



SE CENTURY DRIVE LEFT EDGE OF PAVEMENT



SE CENTURY DRIVE RIGHT EDGE OF PAVEMENT



REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH

NO.	DESCRIPTION	DATE
1	PLAN & EDGE OF PAVEMENT PROFILE CENTURY DRIVE	2021
2	LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	2021
3	LEE'S SUMMIT, MISSOURI	2021

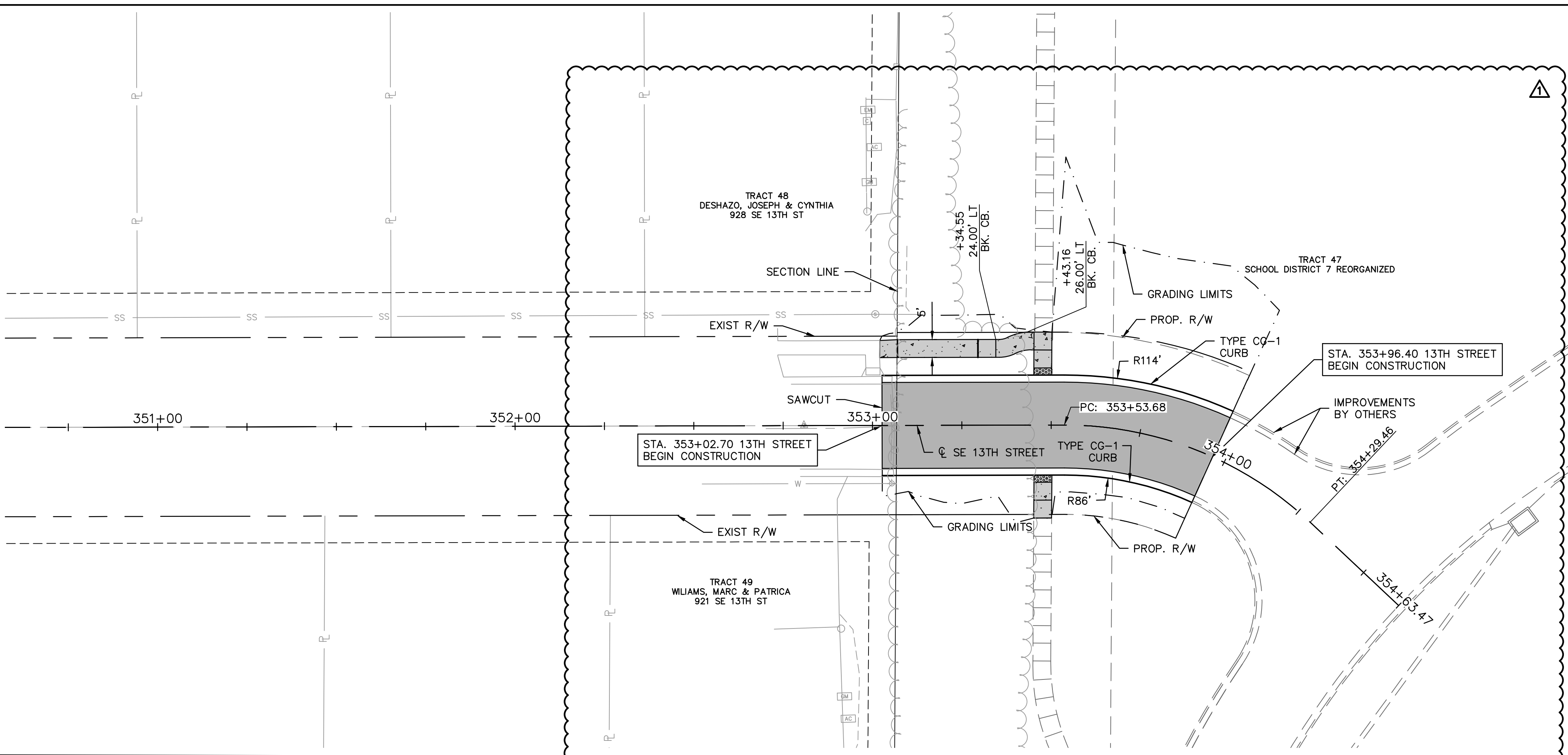
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 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_RPP10_0200103
 DATE: 2022-11-04

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 Overland Park, KS 66213-4750 FAX: 913.381.1174
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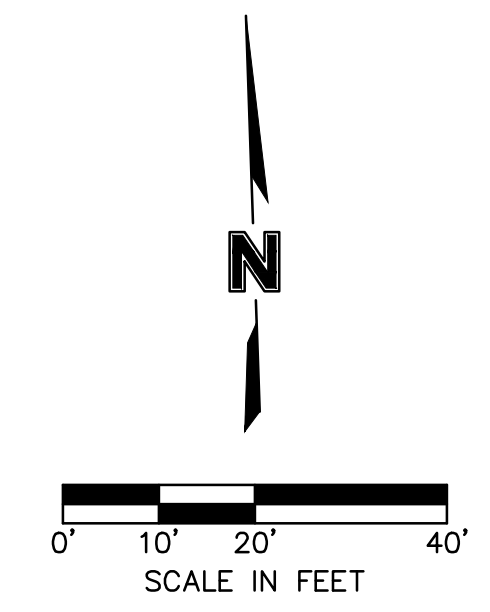
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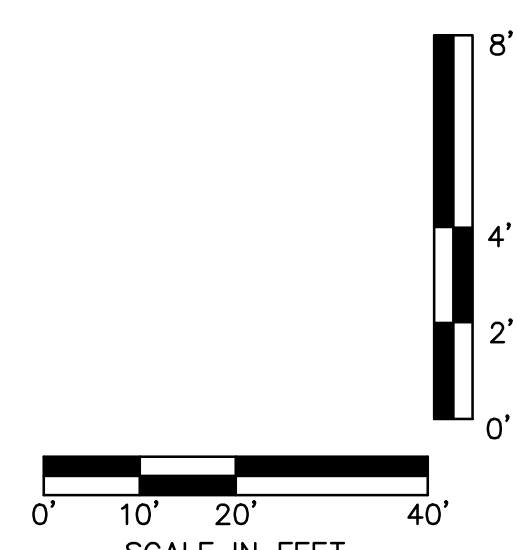
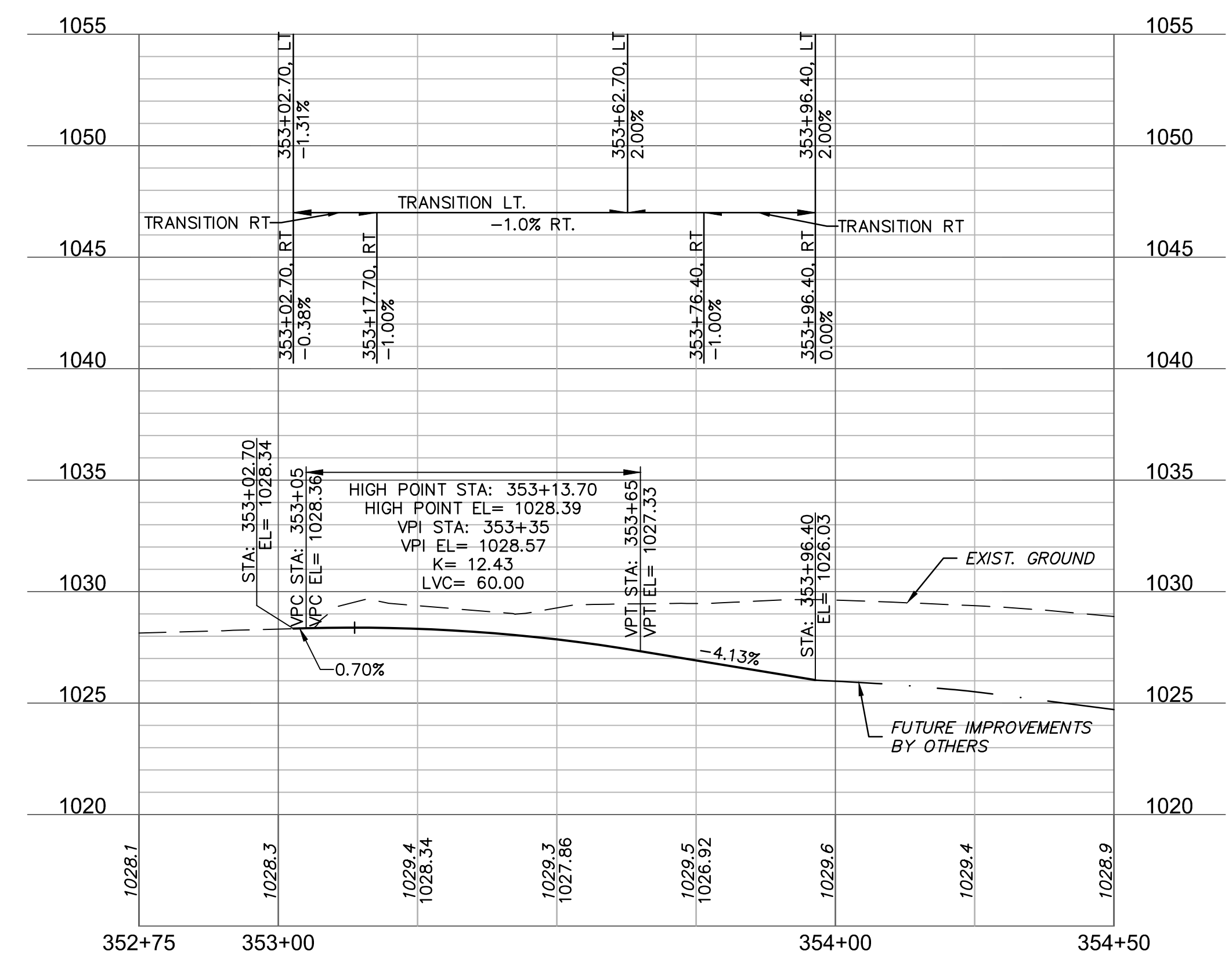


LEGEND

- ASPHALT
- CONCRETE SIDEWALK
- CONCRETE BASE WIDENING



SE 13TH STREET



REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	05/11/2022	PLAN UPDATES	RPH

PLAN & PROFILE SE 13TH STREET	2021
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_RPP07_0200103
 DATE: 2022-11-04

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 Overland Park, KS 66213-4750 FAX: 913.381.1174
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RECORD DRAWINGS

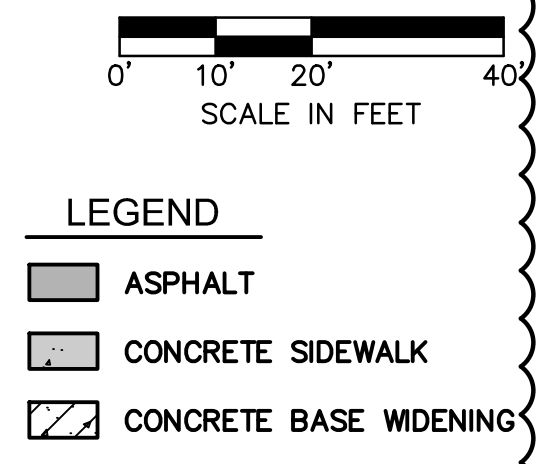
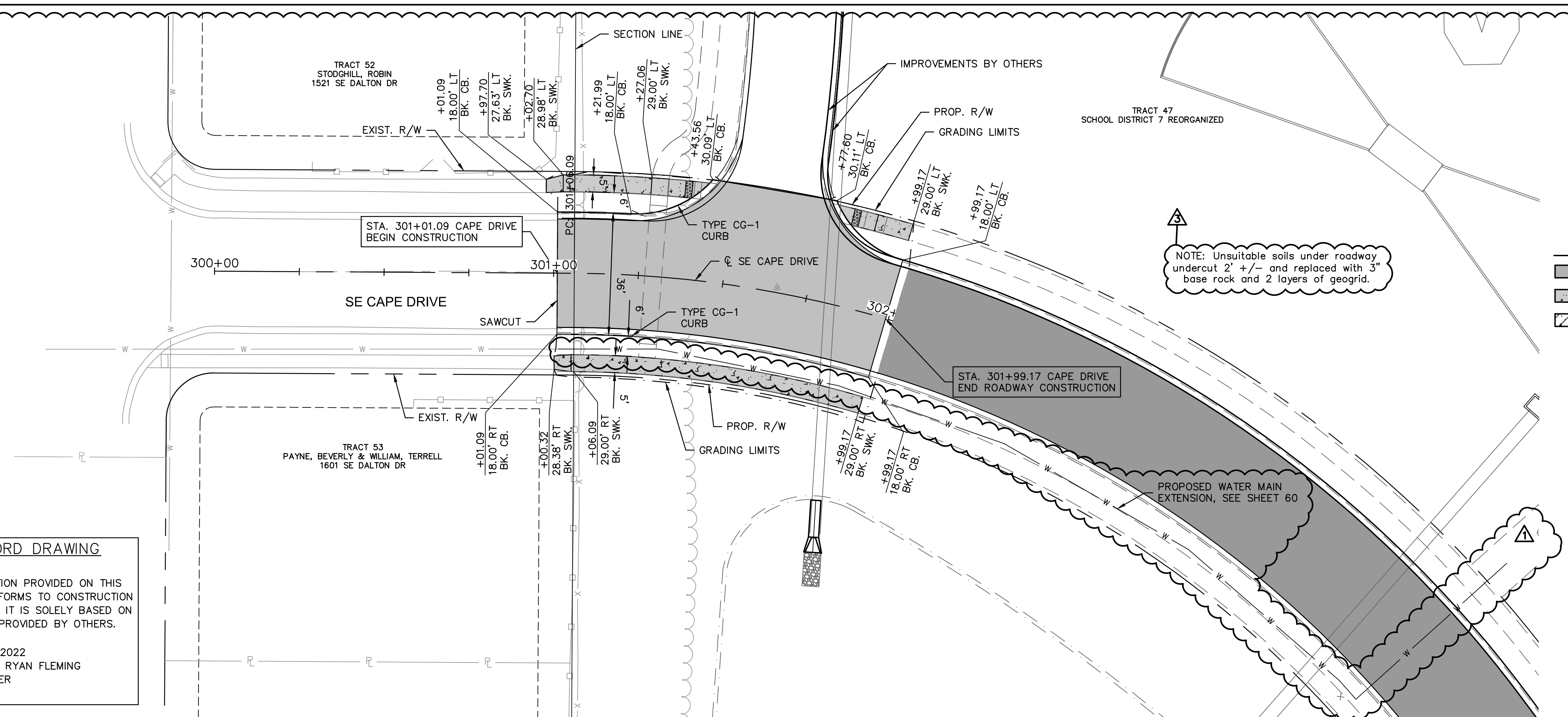
REVISIONS

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THE INFORMATION PROVIDED ON THIS DRAWING CONFORMS TO CONSTRUCTION RECORDS AND IT IS SOLELY BASED ON INFORMATION PROVIDED BY OTHERS.

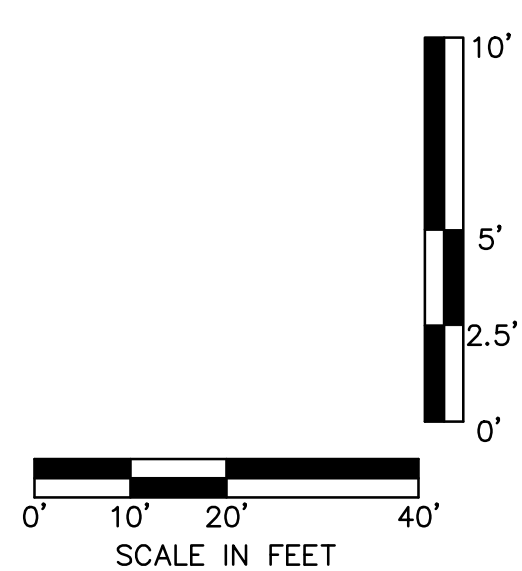
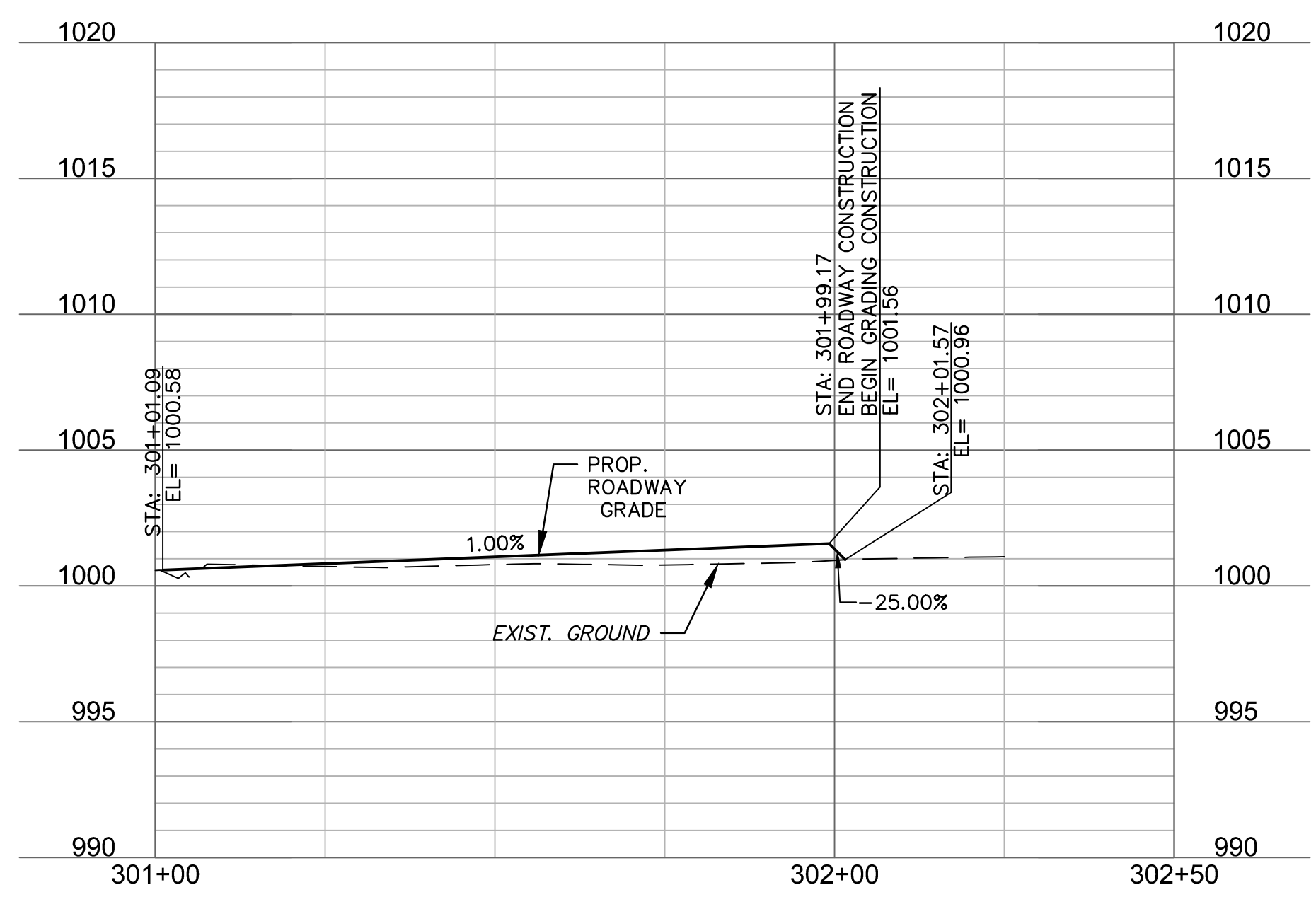
DATE: 11/04/2022
 CERTIFIED BY: RYAN FLEMING
 TITLE: ENGINEER
 FIRM: OLSSON



LEGEND

- ASPHALT
- CONCRETE SIDEWALK
- CONCRETE BASE WIDENING

SE CAPE DRIVE



REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH
3	11/04/2022	RECORD DRAWING REVISIONS	MAR

PLAN & PROFILE
 SE CAPE DRIVE

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2021

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_RPP09_0200103
 DATE: 2022-11-04

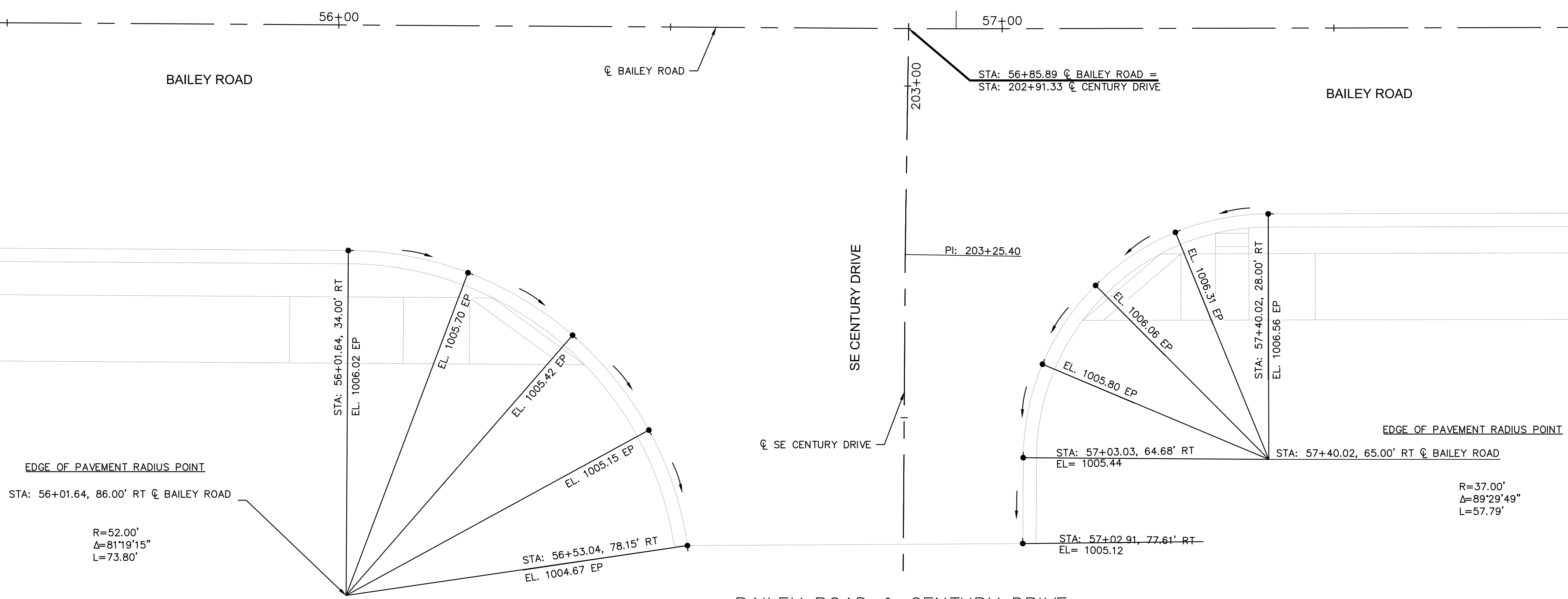
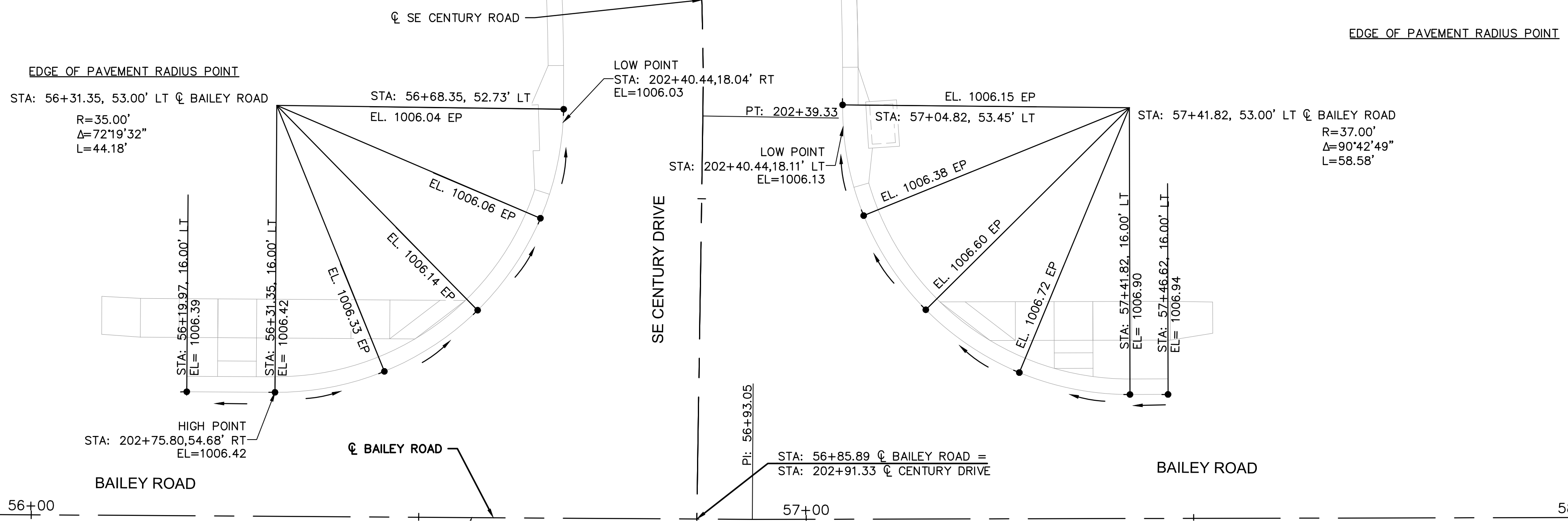
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REVISIONS

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 USER: mrobertson



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RECORD DRAWINGS

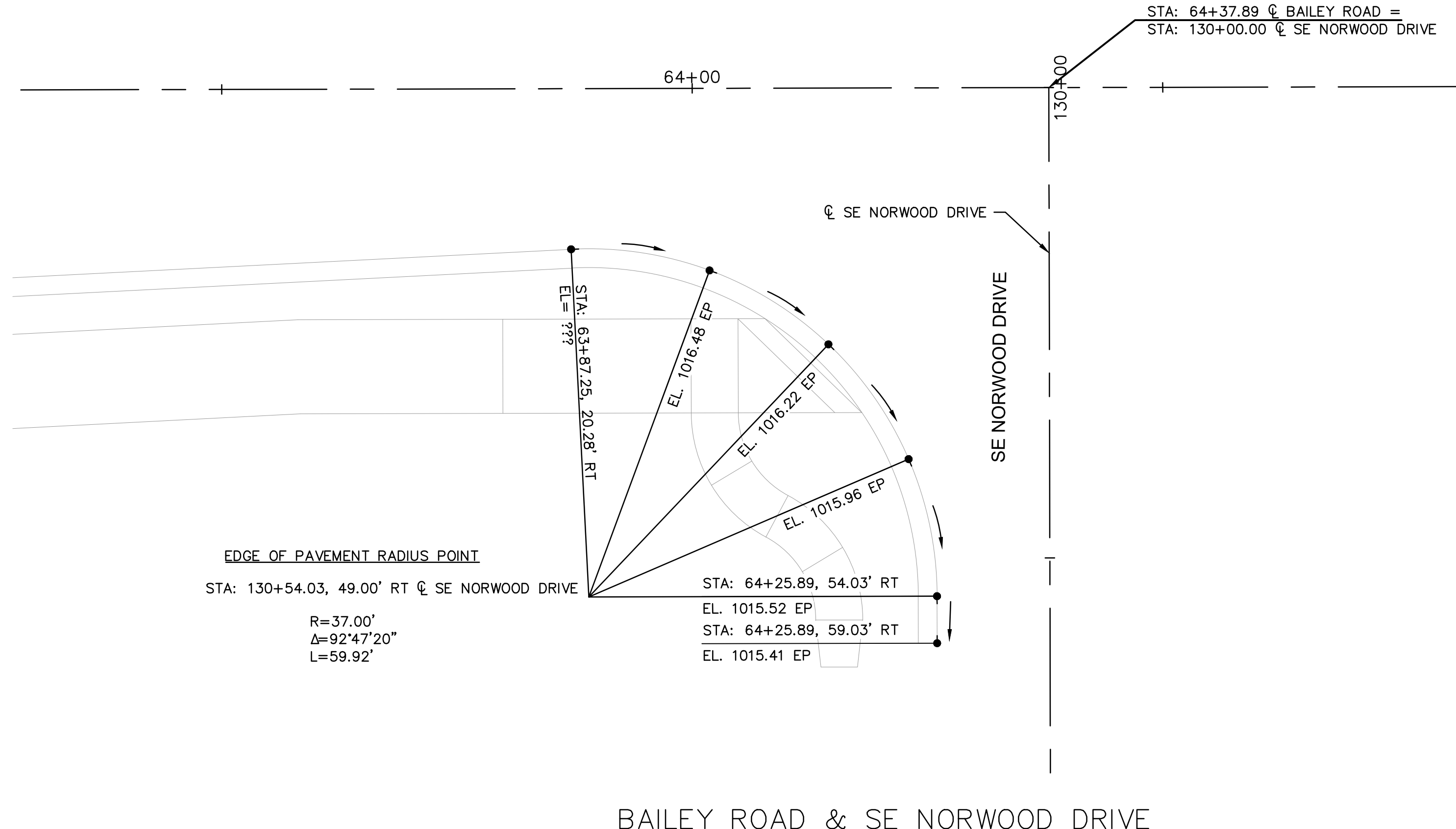
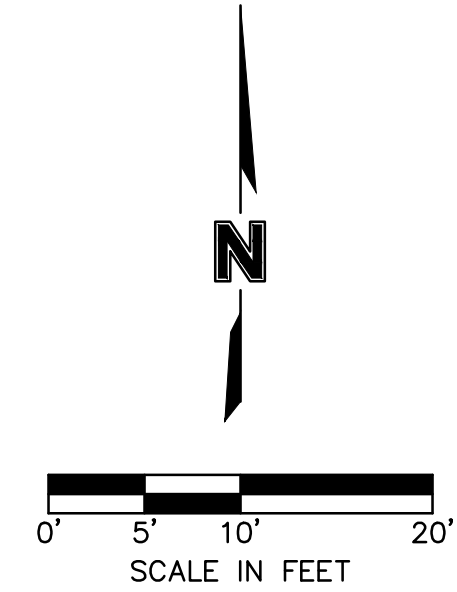
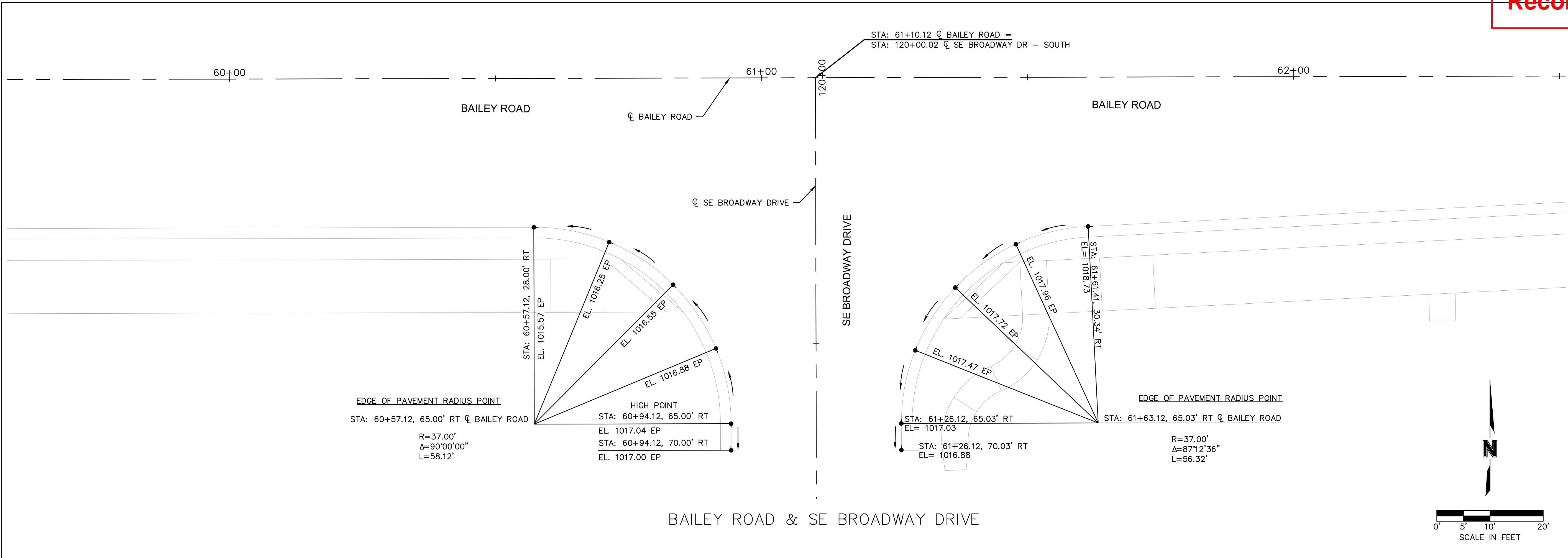
REV. NO.	DATE	REVISIONS DESCRIPTION	BY

REVISIONS

INTERSECTION LAYOUTS	2021
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_INT01_0200103
 DATE: 2022-11-04

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REV. NO.	DATE	REVISIONS DESCRIPTION	BY

INTERSECTION LAYOUTS

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

2021

LEE'S SUMMIT, MISSOURI

REVISIONS

C.O.A. NO.: 001592

DRAWN BY: MLW

CHECKED BY: RPH

APPROVED BY: RBE

QA/QC BY: RBE

PROJECT NO.: 020-0103

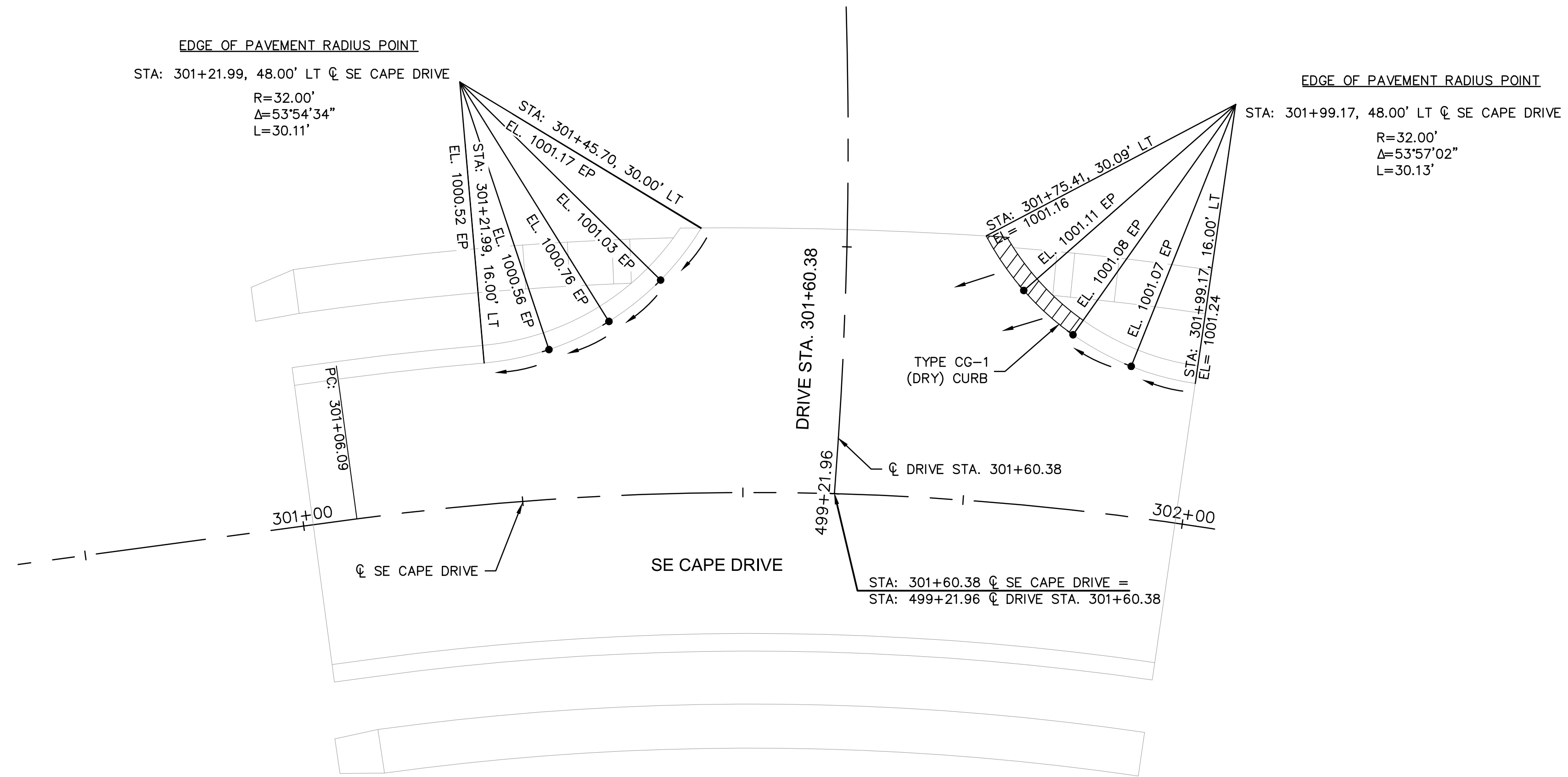
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DATE: 2022-11-04

SHEET
34 OF 101

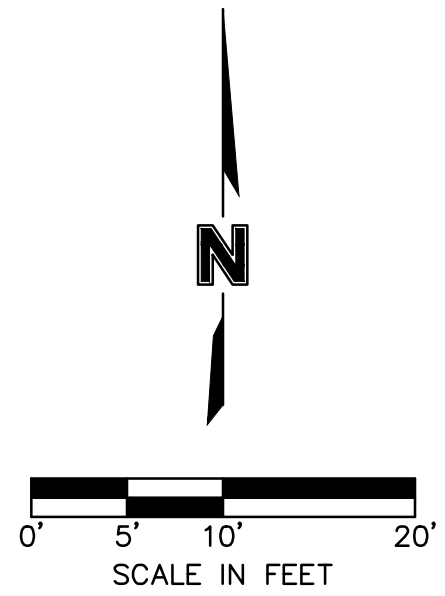
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SE CAPE DRIVE & MIDDLE SCHOOL DRIVE

LEGEND
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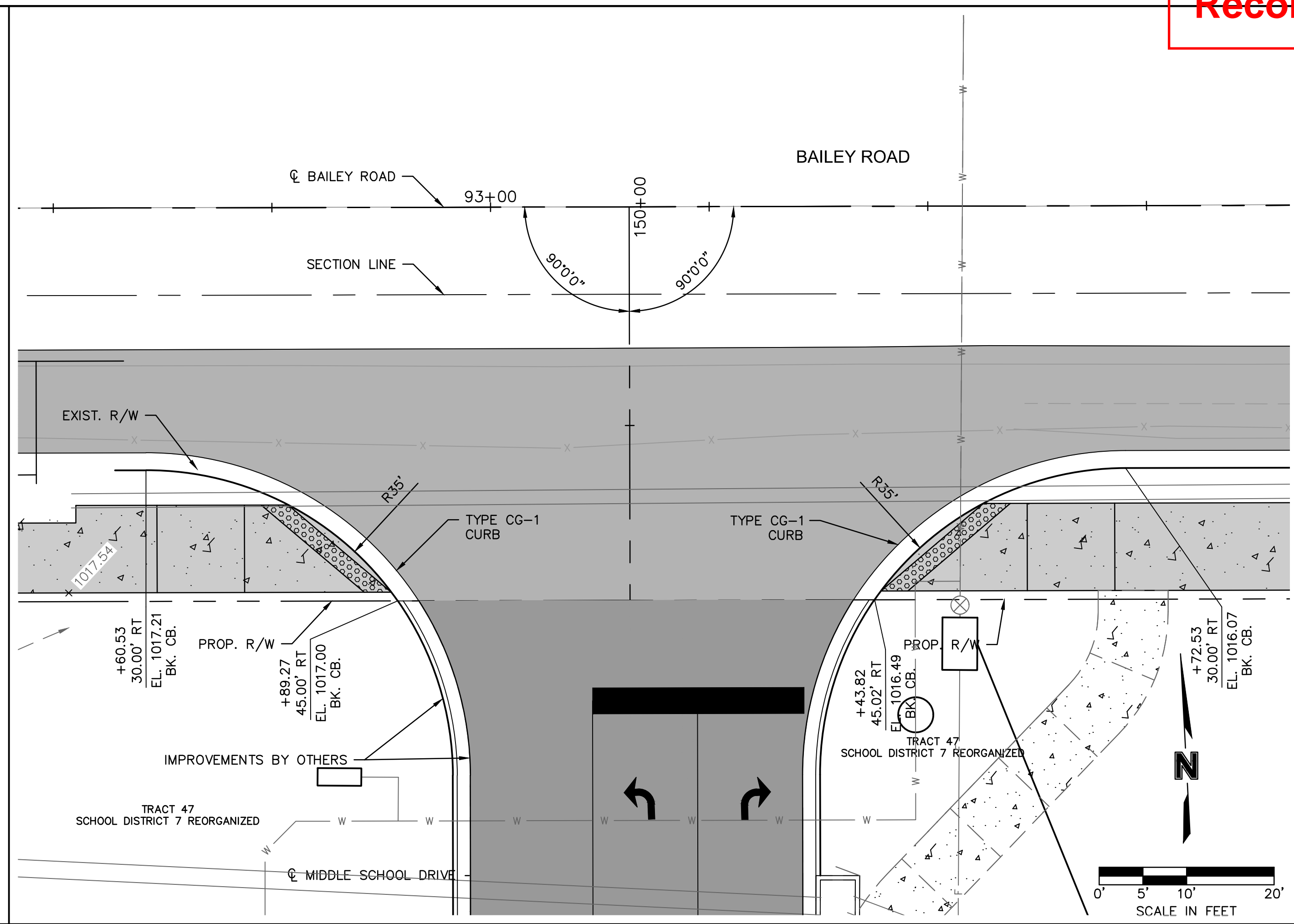
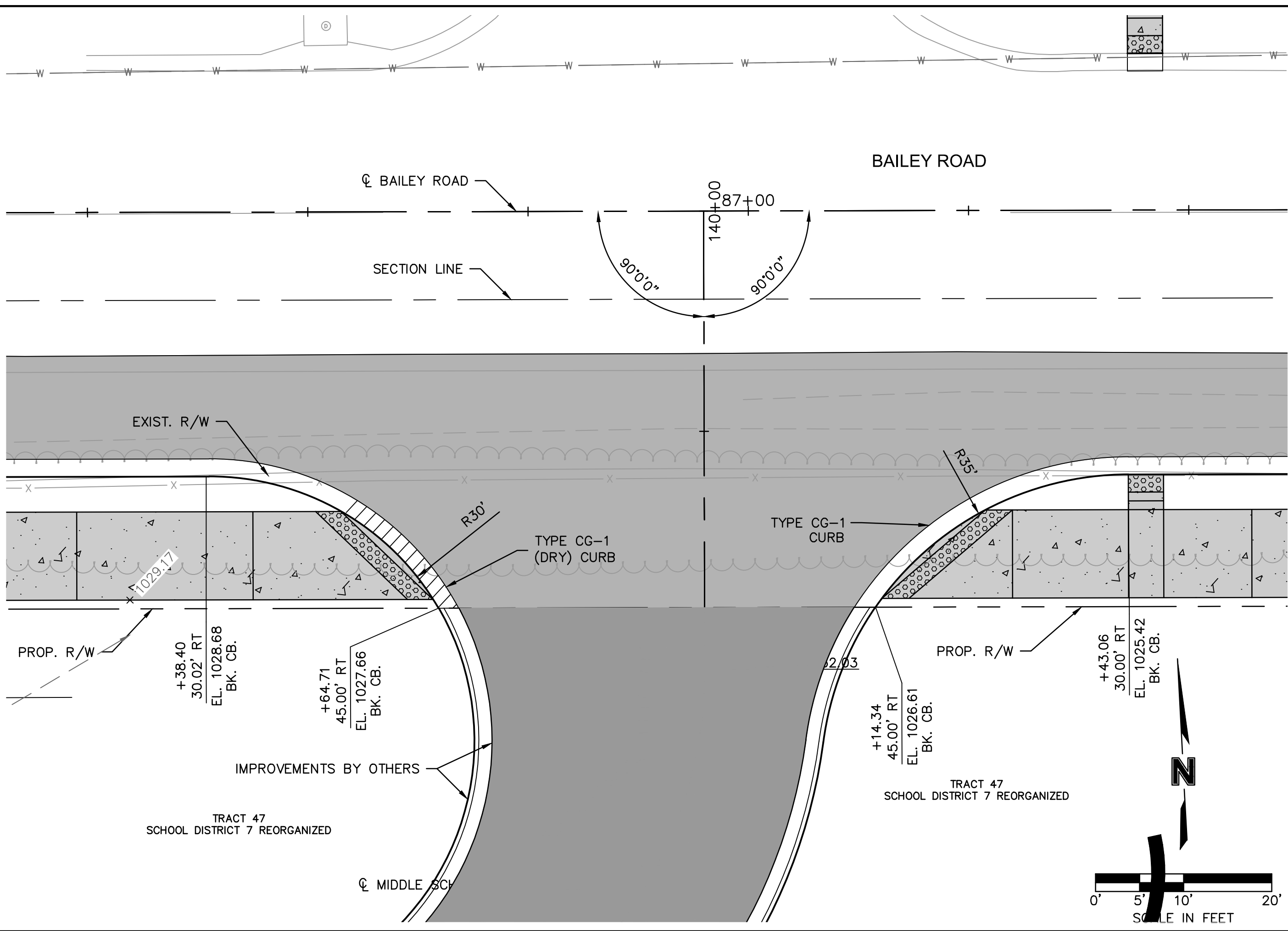
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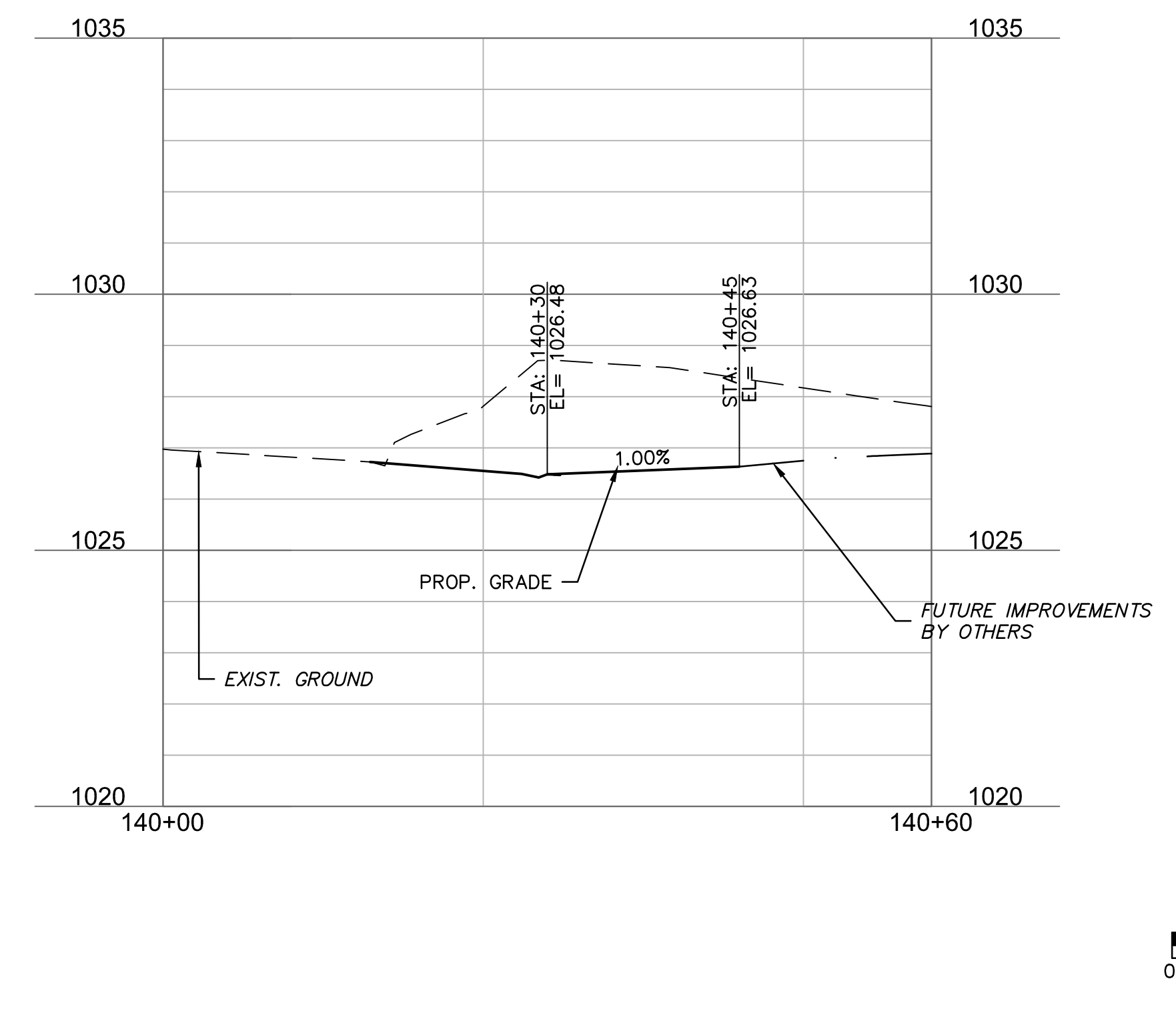
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LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
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 QA/QC BY: RBE
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 DWG NO.: T_INT01_0200103
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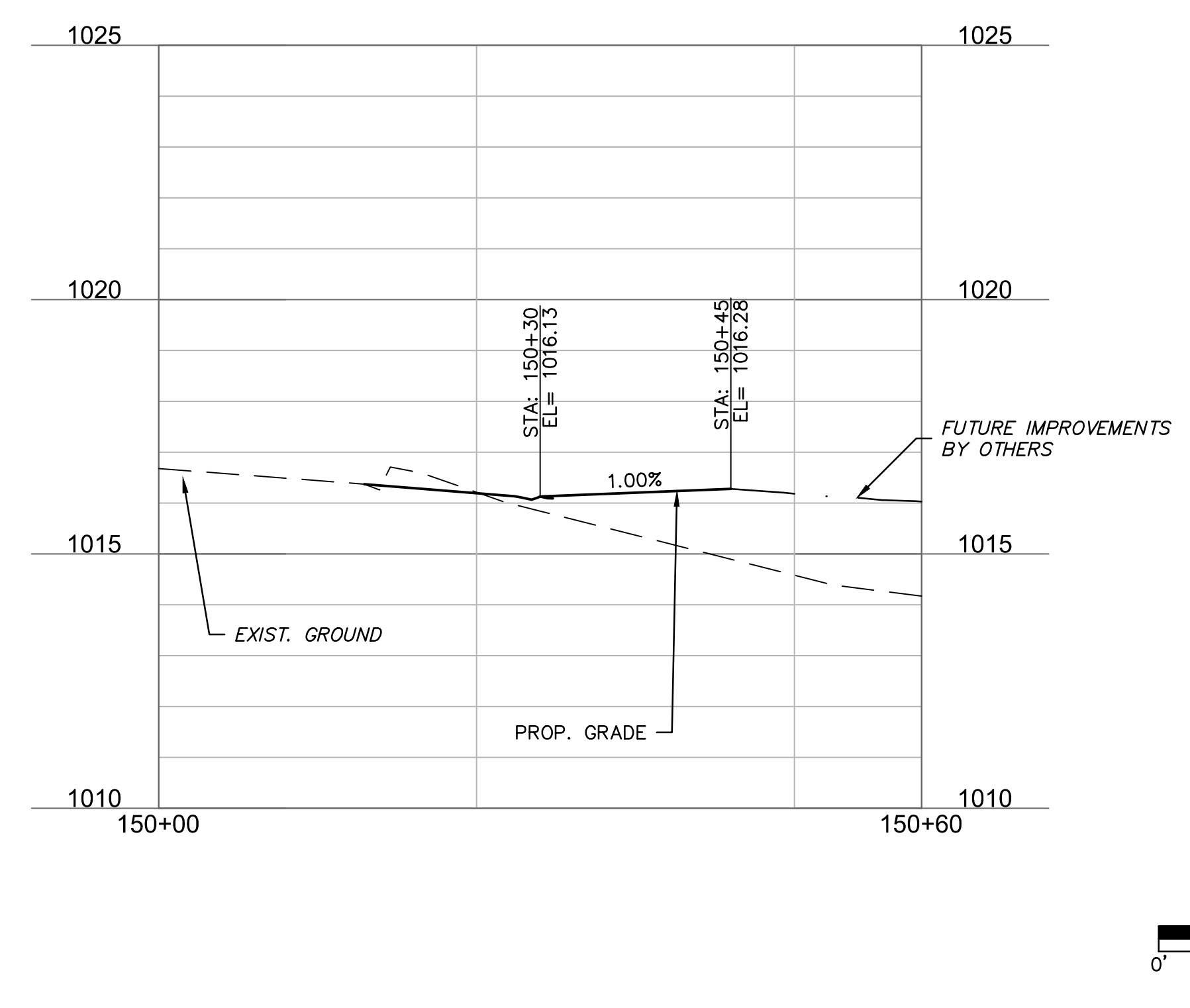
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MIDDLE SCHOOL DRIVE - WEST



MIDDLE SCHOOL DRIVE - EAST

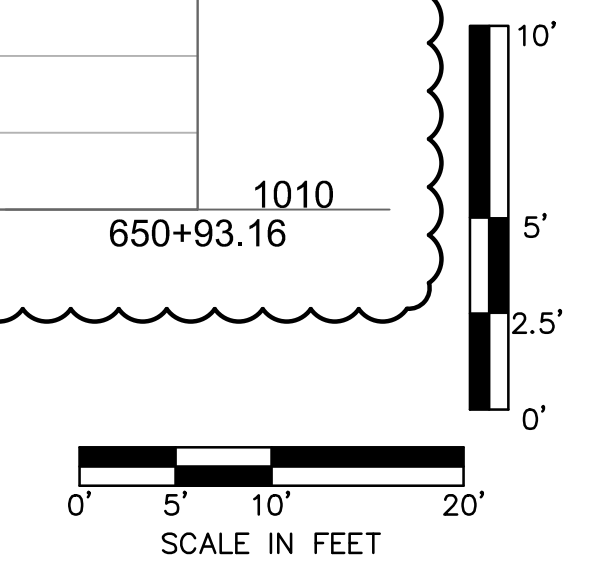
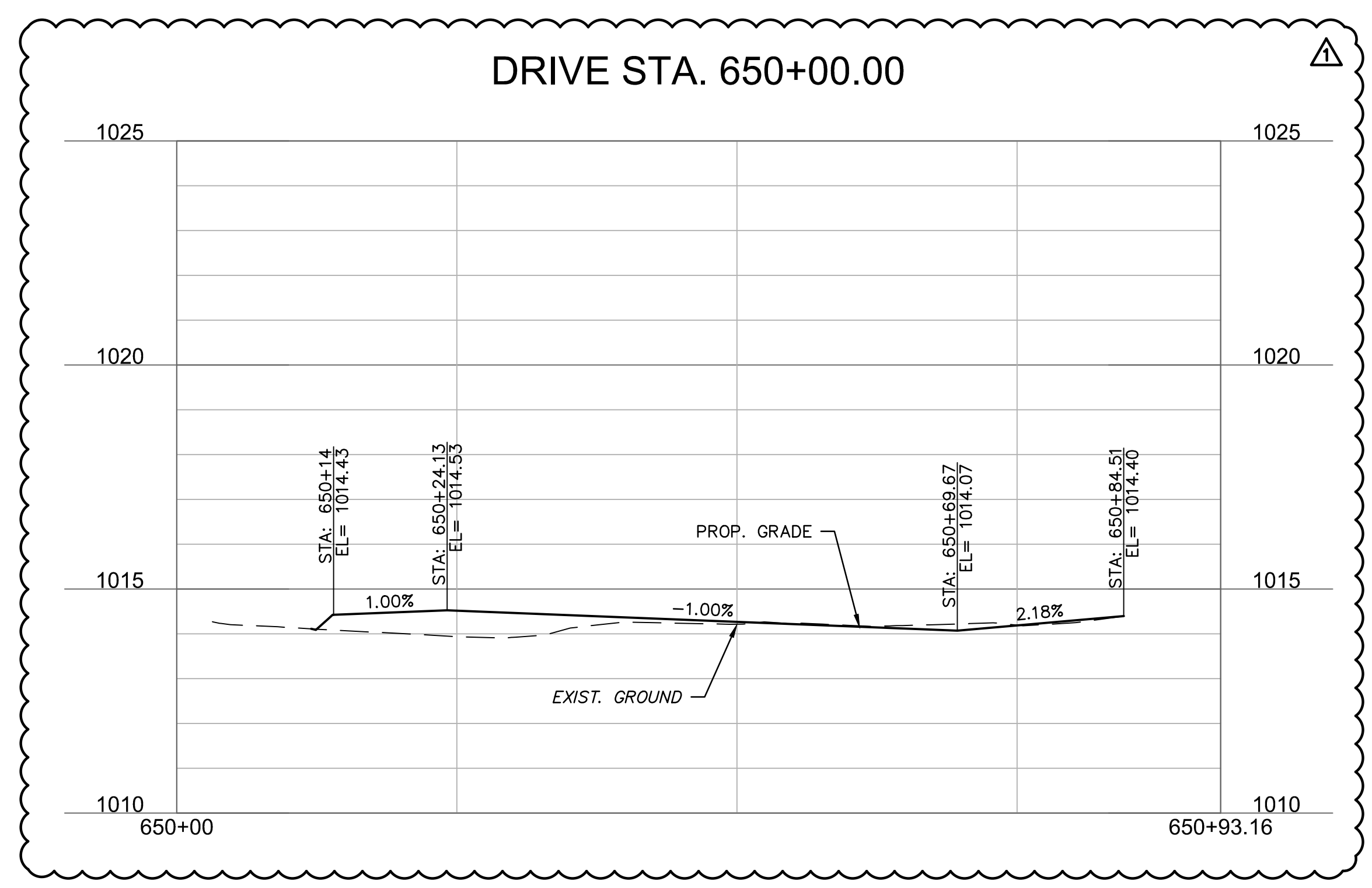
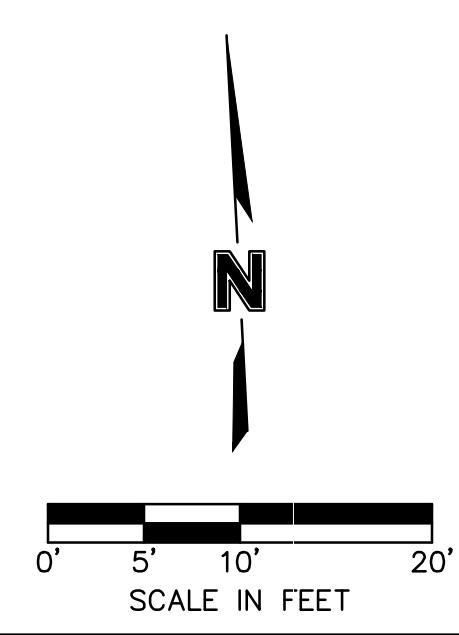
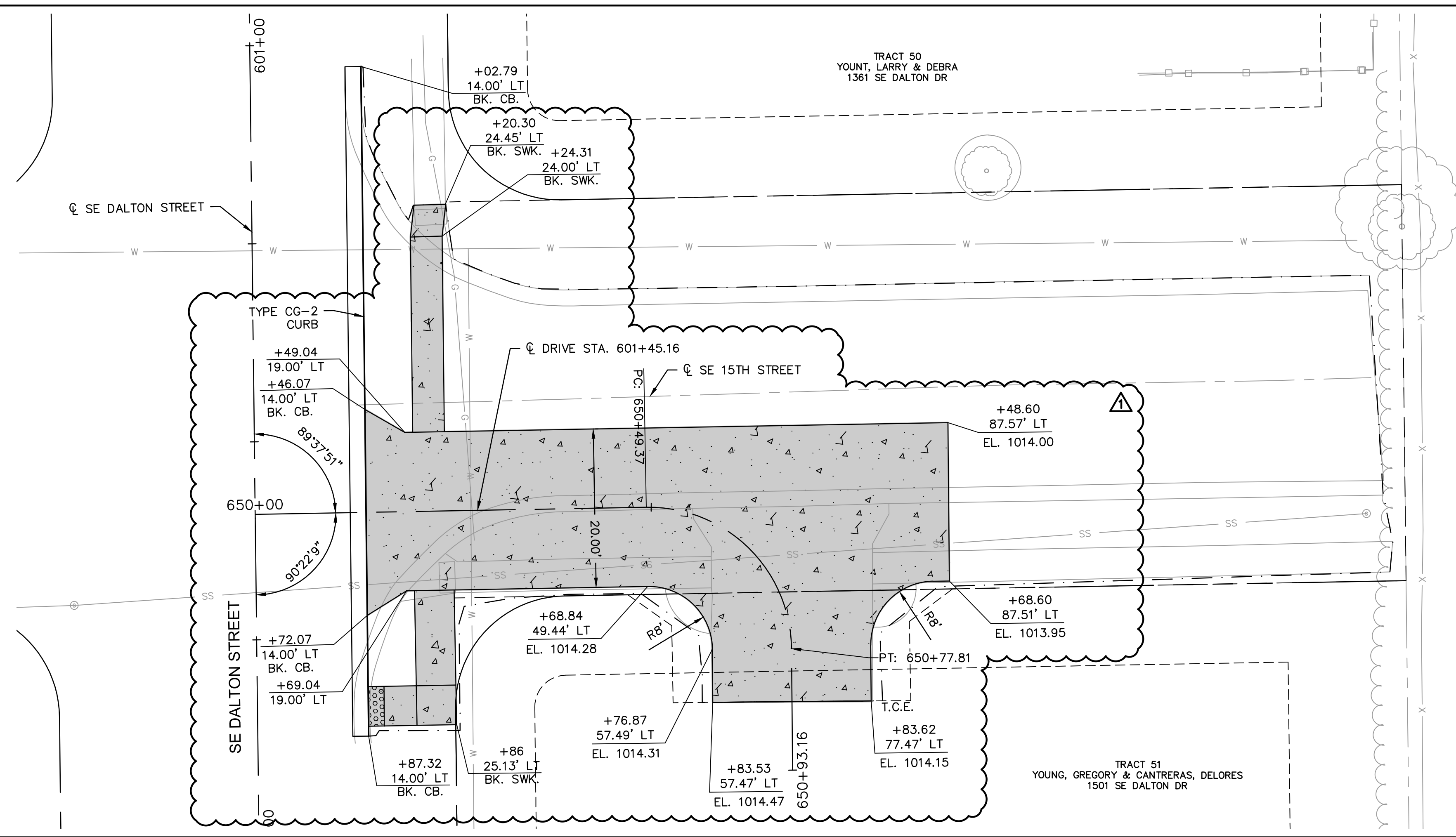


REV. NO.	DATE	REVISIONS DESCRIPTION	BY

DRIVEWAY LAYOUT	2021
LEE'S SUMMIT MIDDLE SCHOOL #4	
BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	
C.O.A. NO.:	001592
DRAWN BY:	MLW
CHECKED BY:	RPH
APPROVED BY:	RBE
QA/QC BY:	RBE
PROJECT NO.:	020-0103
DWG NO.:	T_PDRIV_0200103
DATE:	2022-11-04

RECORD DRAWINGS

DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\RDBR\Lee Summit Plan Set - (Century and Middle School Drives)\DRIVE LAYOUTS\T_PDRIV_0200103.dwg
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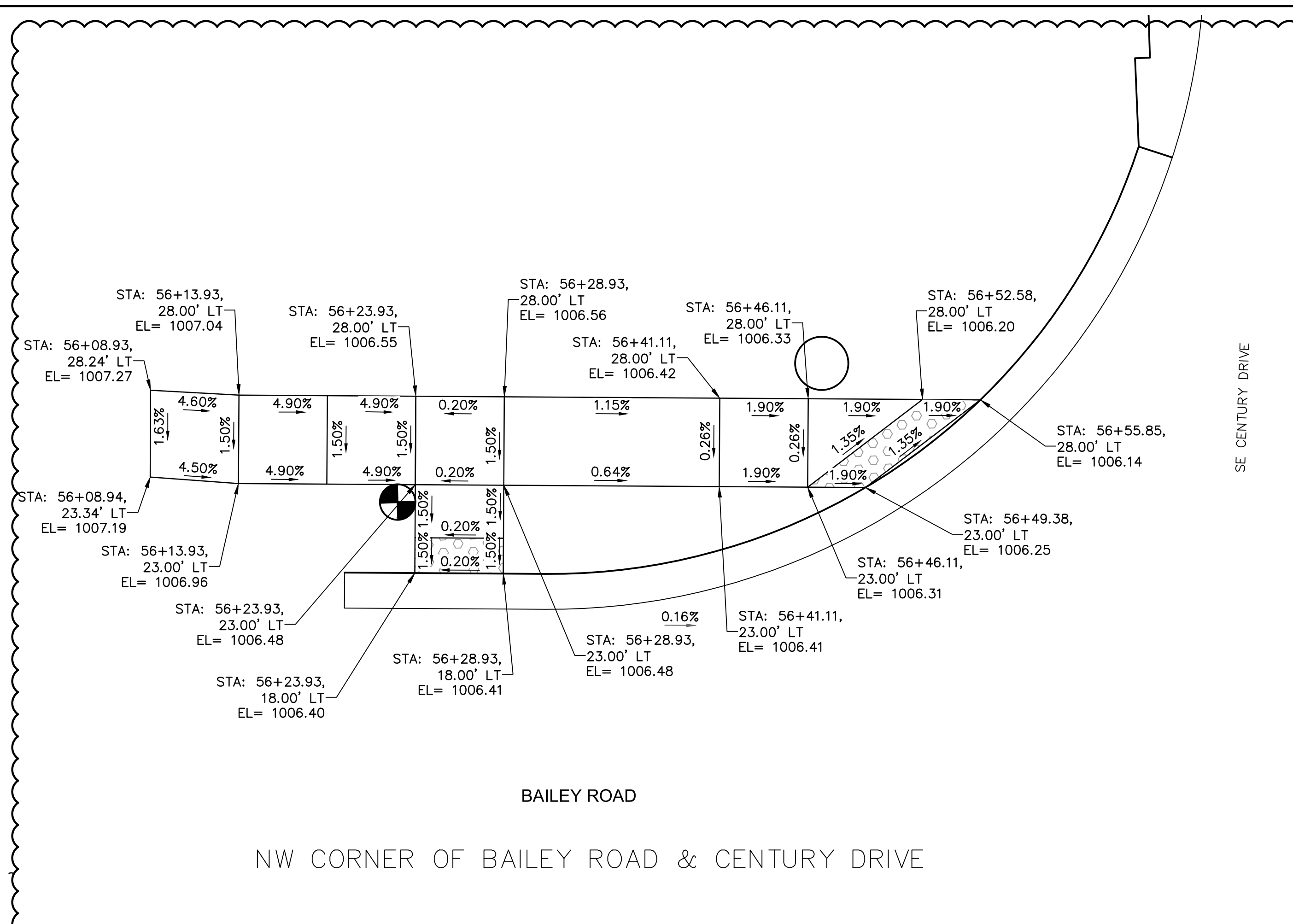
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REV. NO.	DATE	REVISIONS DESCRIPTION	BY
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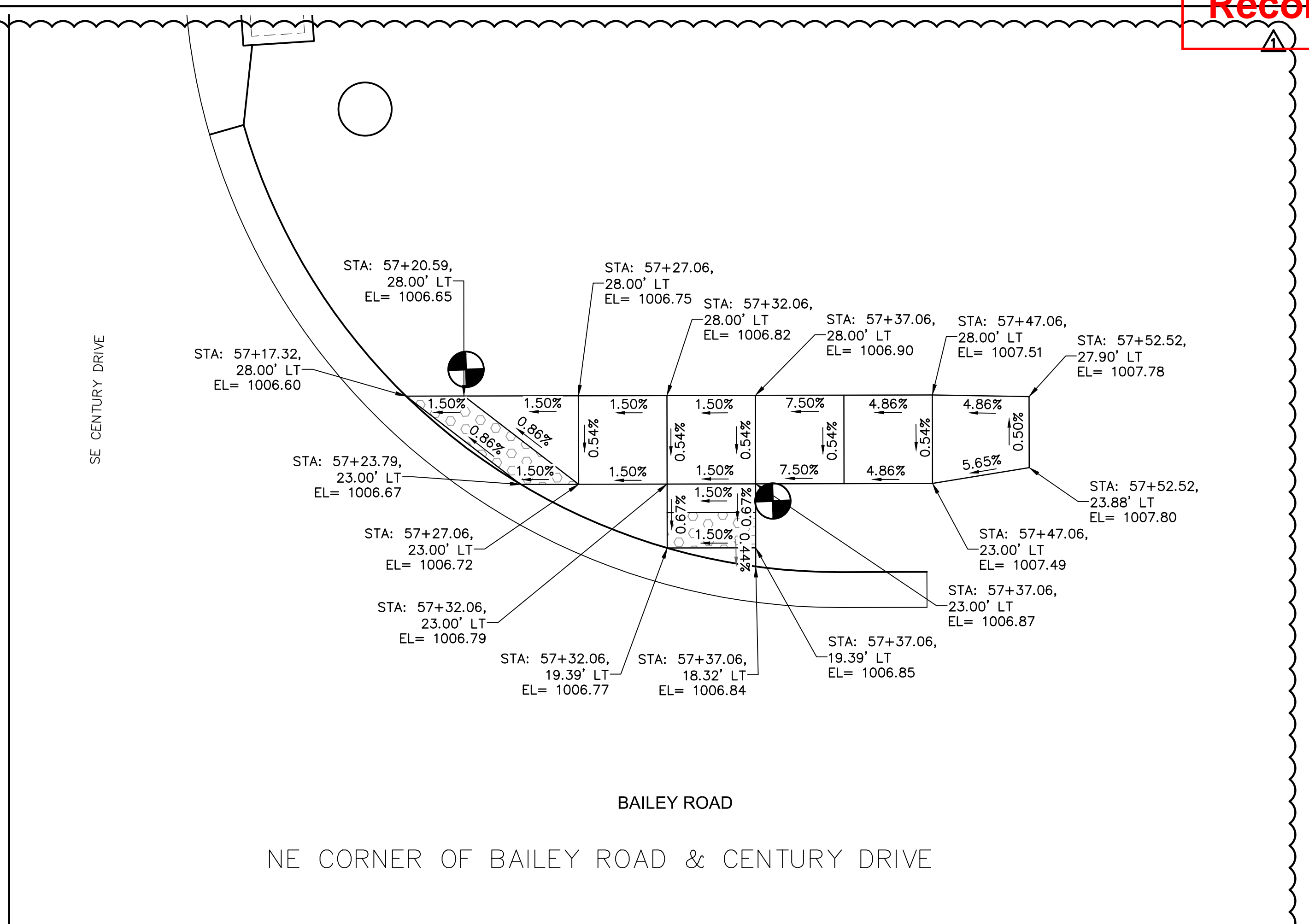
DRIVEWAY LAYOUT	2021
LEE'S SUMMIT MIDDLE SCHOOL #4	
BAILY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_PDRIV_0200103
 DATE: 2022-11-04

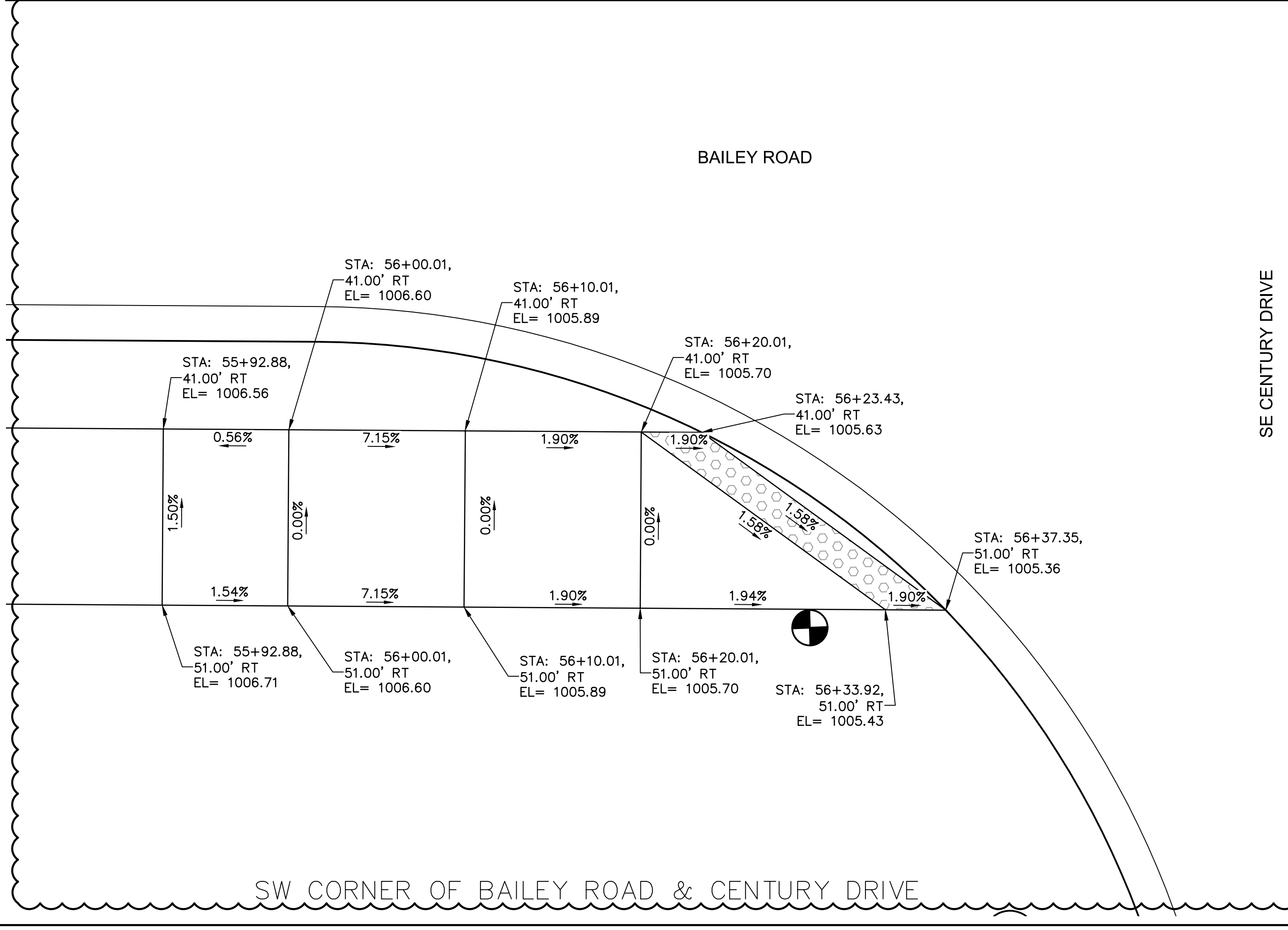
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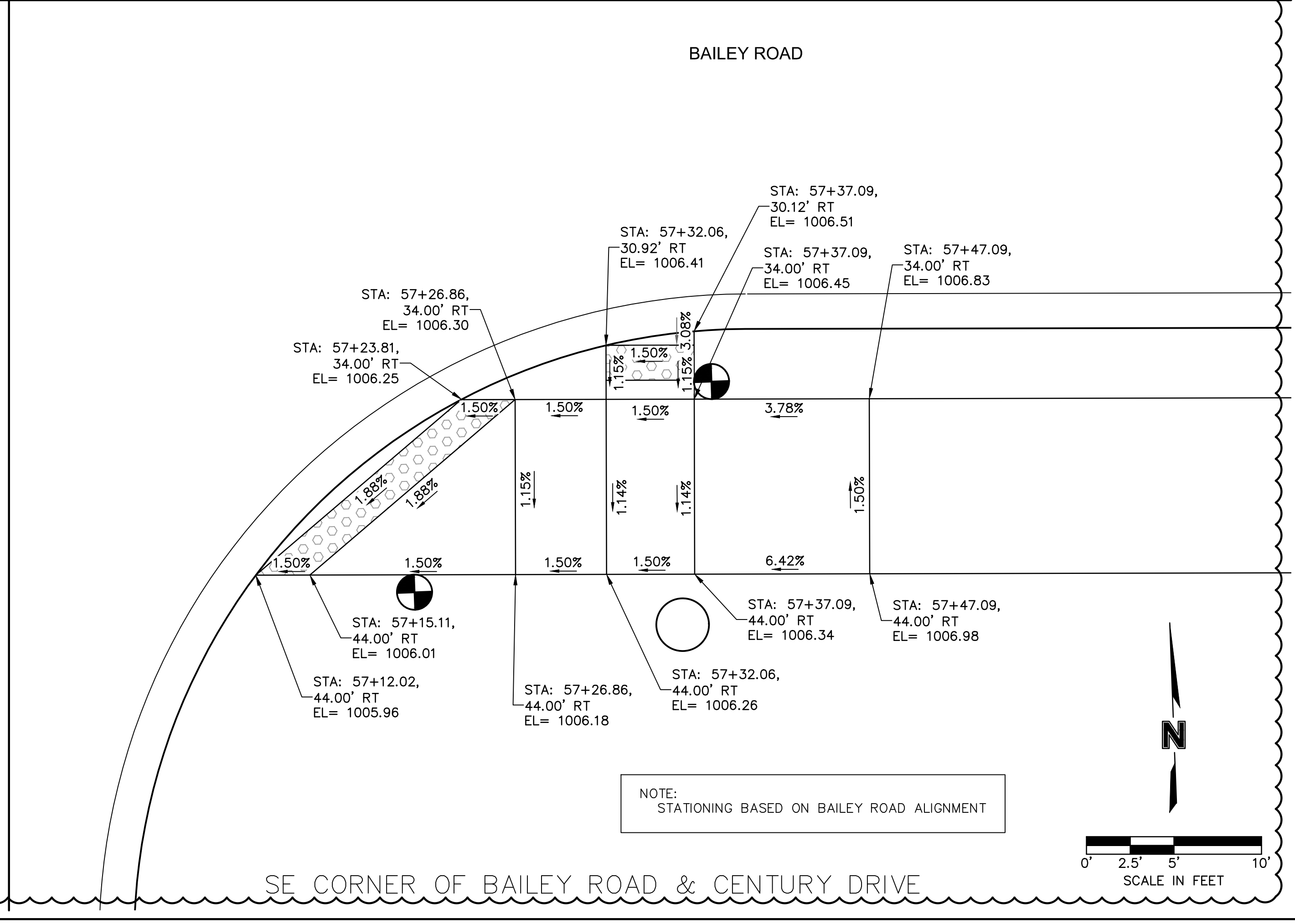
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NE CORNER OF BAILEY ROAD & CENTURY DRIVE



SW CORNER OF BAILEY ROAD & CENTURY DRIVE



SE CORNER OF BAILEY ROAD & CENTURY DRIVE

NOTE: STATIONING BASED ON BAILEY ROAD ALIGNMENT

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REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH

SIDEWALK LAYOUTS

LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS

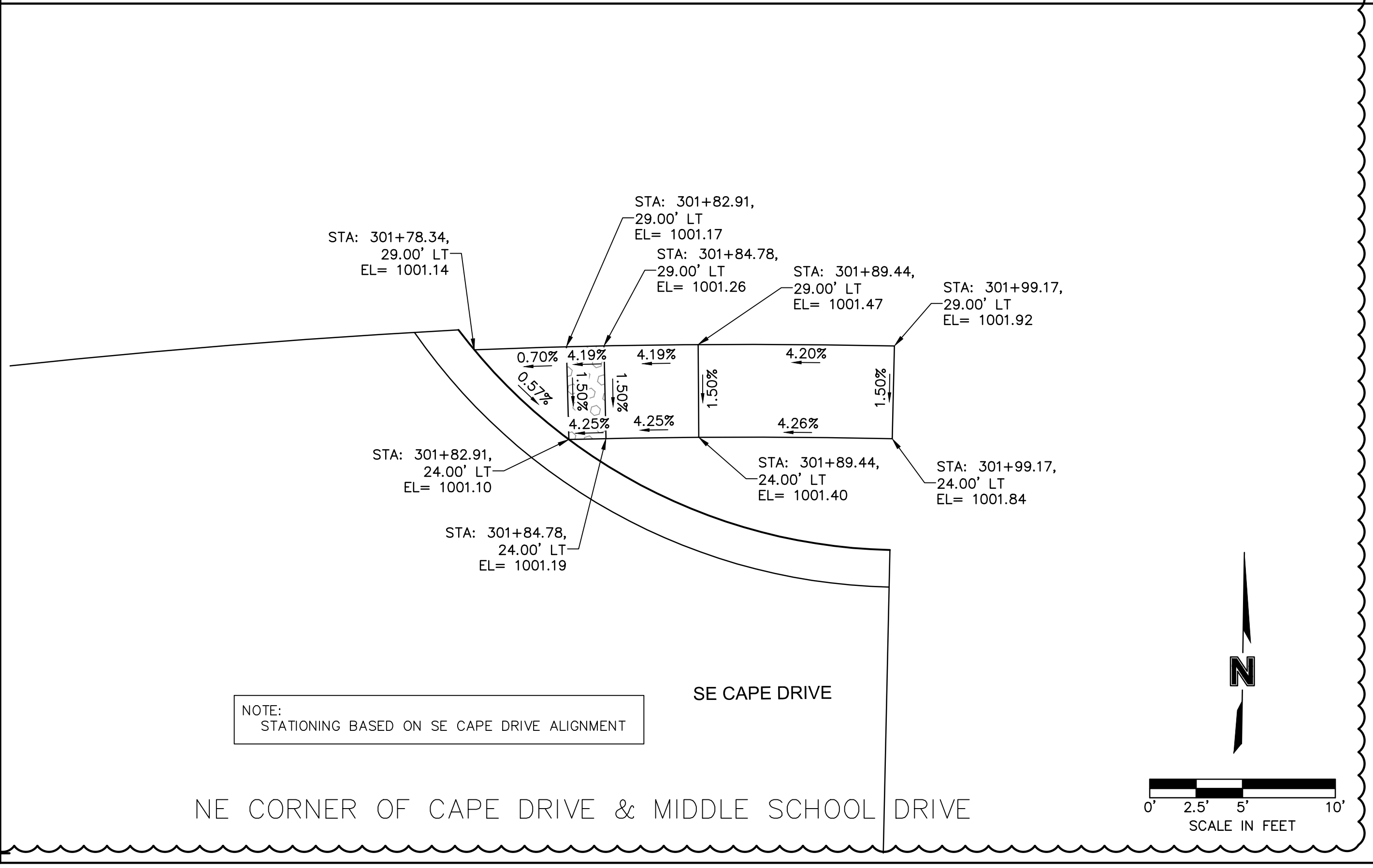
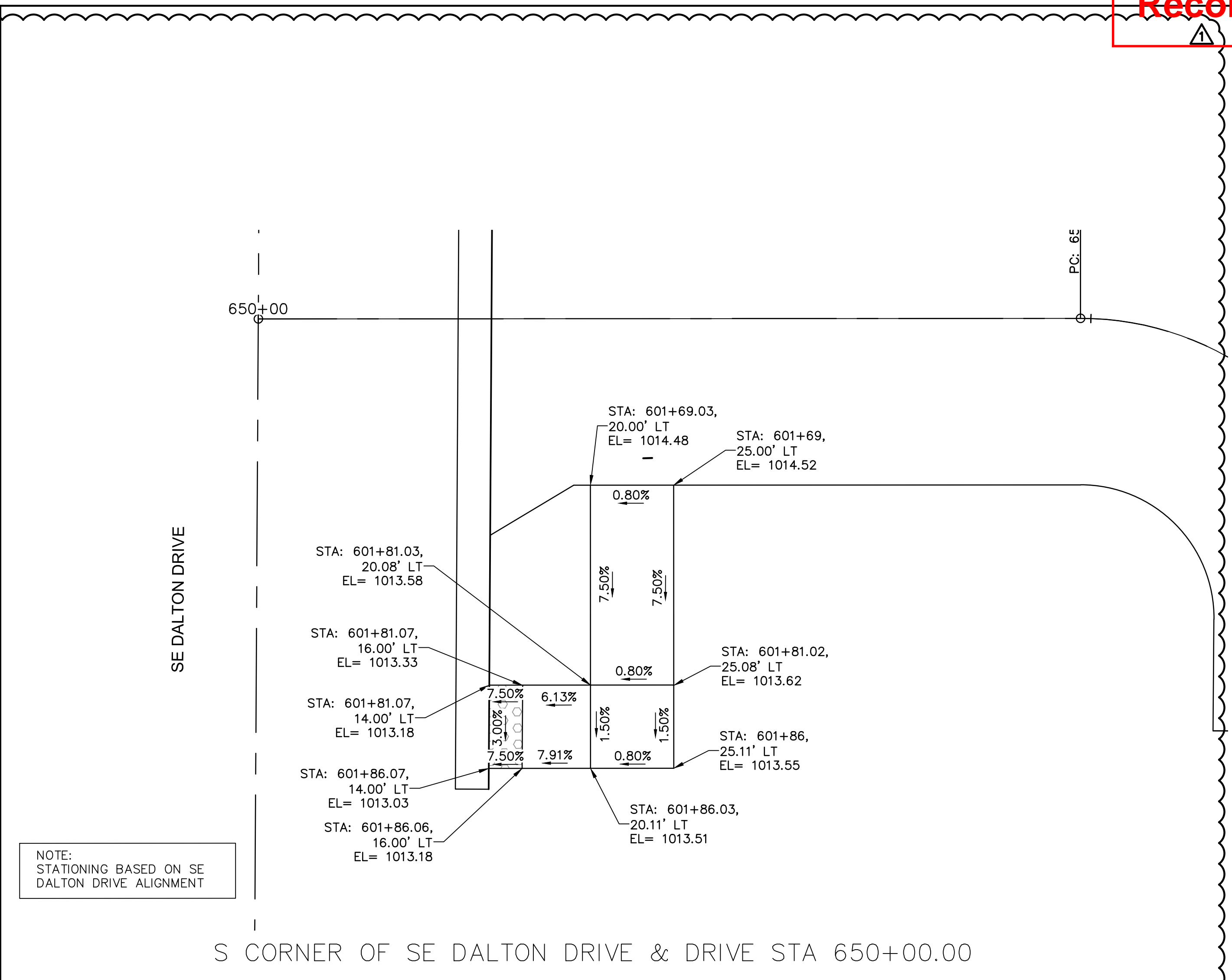
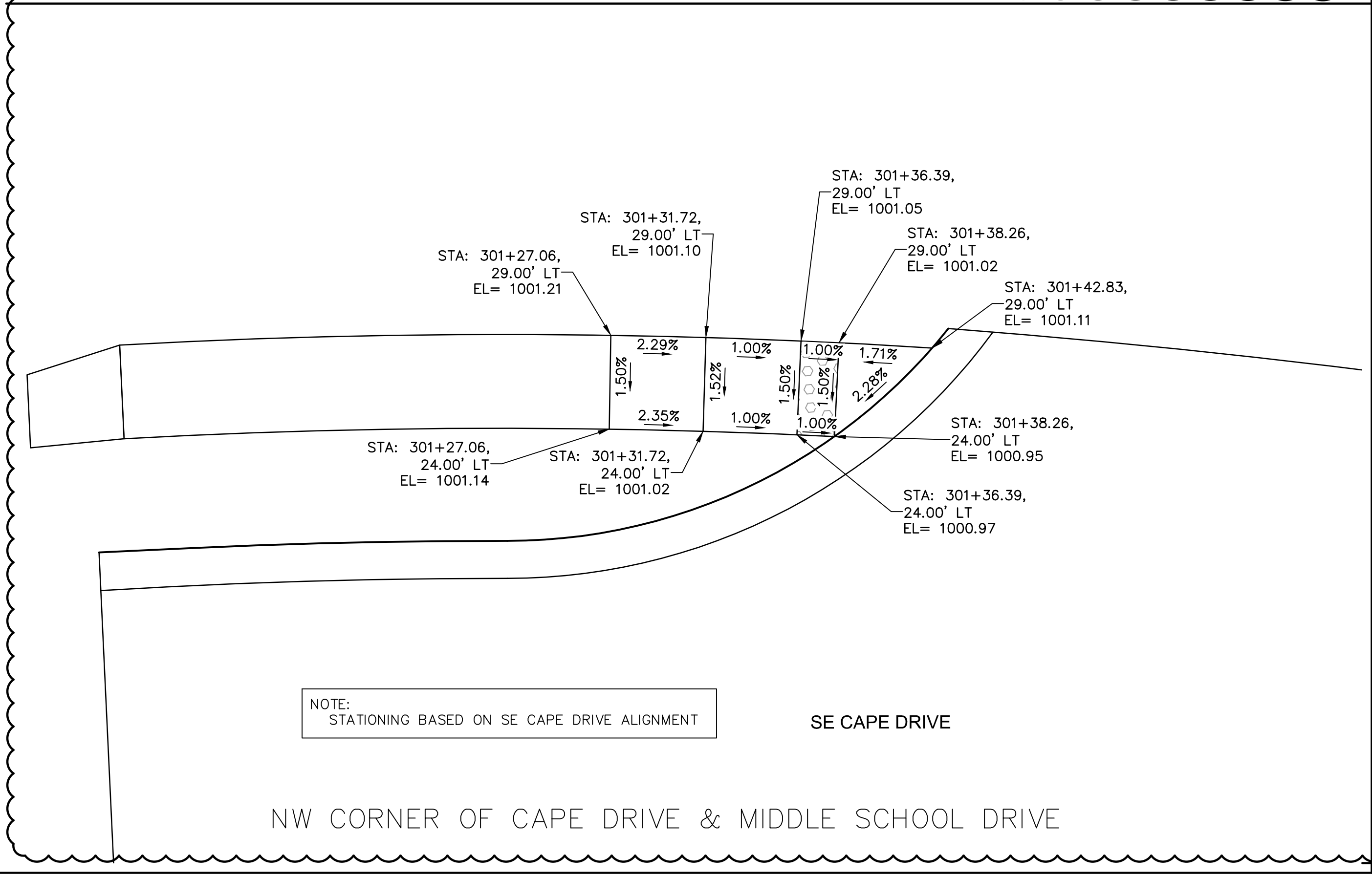
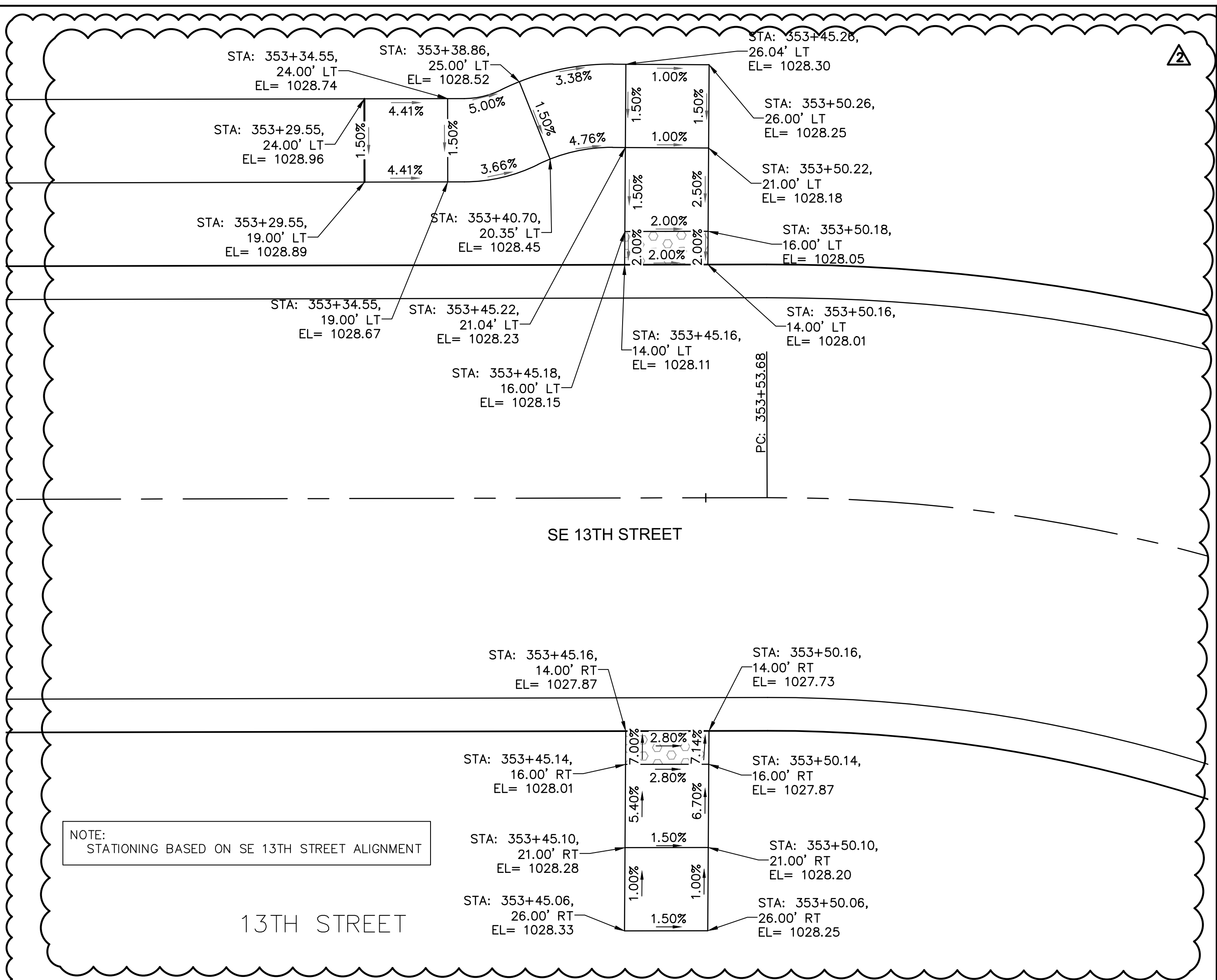
2021

LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
DRAWN BY: MLW
CHECKED BY: RPH
APPROVED BY: RBE
QA/QC BY: RBE
PROJECT NO.: 020-0103
DWG NO.: I_SWK01_0200103_LS
DATE: 2022-11-04

SHEET 39 OF 101

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NOTE: STATIONING BASED ON SE 13TH STREET ALIGNMENT

NOTE: STATIONING BASED ON SE DALTON DRIVE ALIGNMENT

13TH STREET

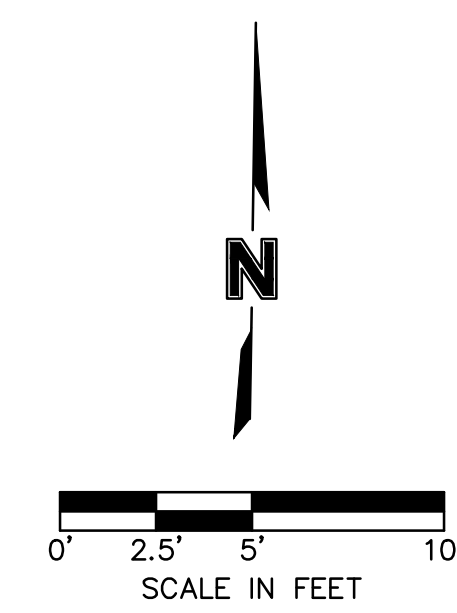
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NOTE: STATIONING BASED ON SE CAPE DRIVE ALIGNMENT

NOTE: STATIONING BASED ON SE CAPE DRIVE ALIGNMENT

NW CORNER OF CAPE DRIVE & MIDDLE SCHOOL DRIVE

NE CORNER OF CAPE DRIVE & MIDDLE SCHOOL DRIVE



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REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH
2	05/11/2022	PLAN UPDATES	RPH

SIDEWALK LAYOUTS

LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS

2021

C.O.A. NO.: 001592

DRAWN BY: MLW

CHECKED BY: RPH

APPROVED BY: RBE

QA/QC BY: RBE

PROJECT NO.: 020-0103

DWG NO.: I_SWK01_0200103_LS

DATE: 2022-11-04

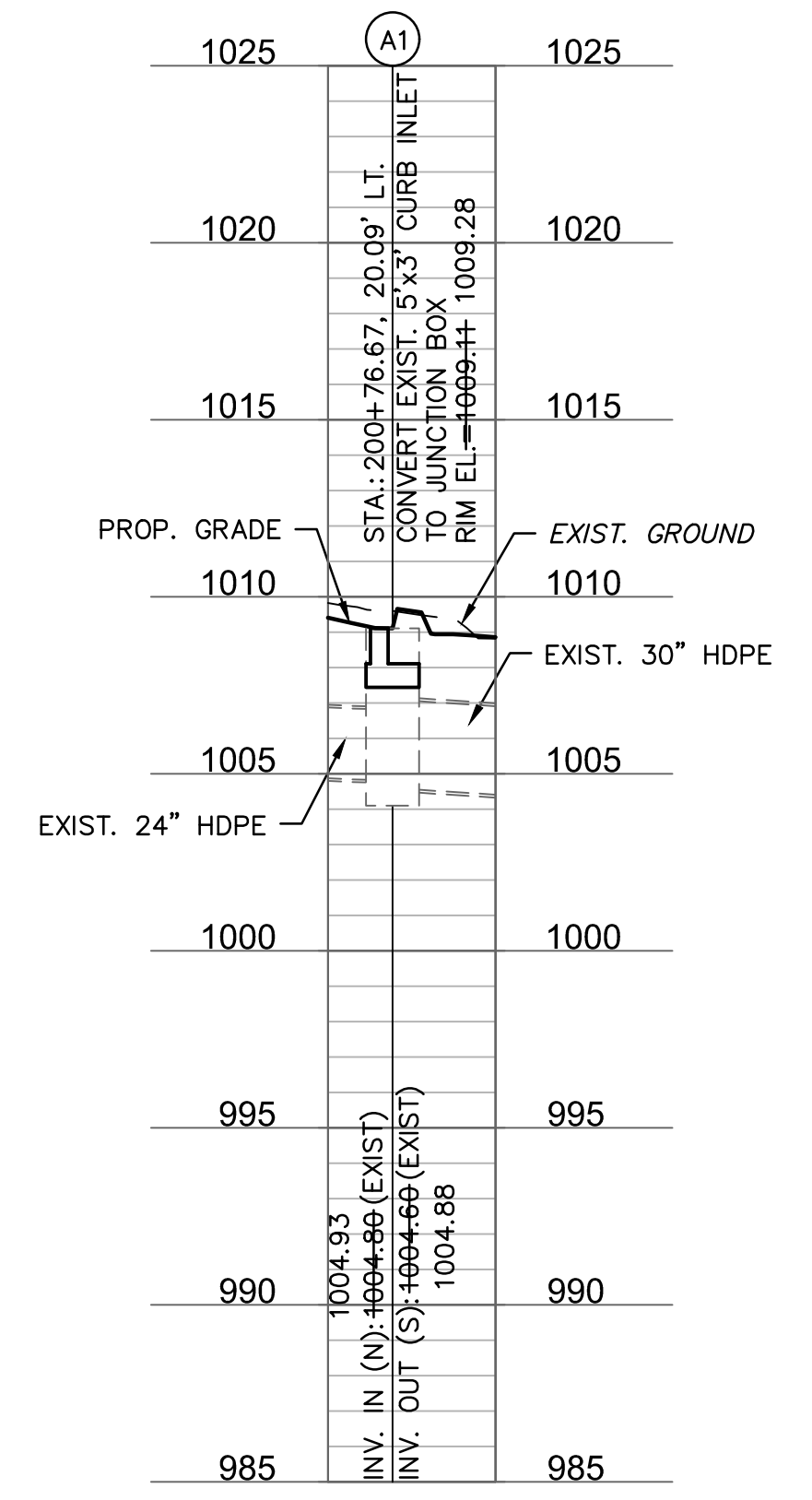
LEE'S SUMMIT, MISSOURI

SHEET

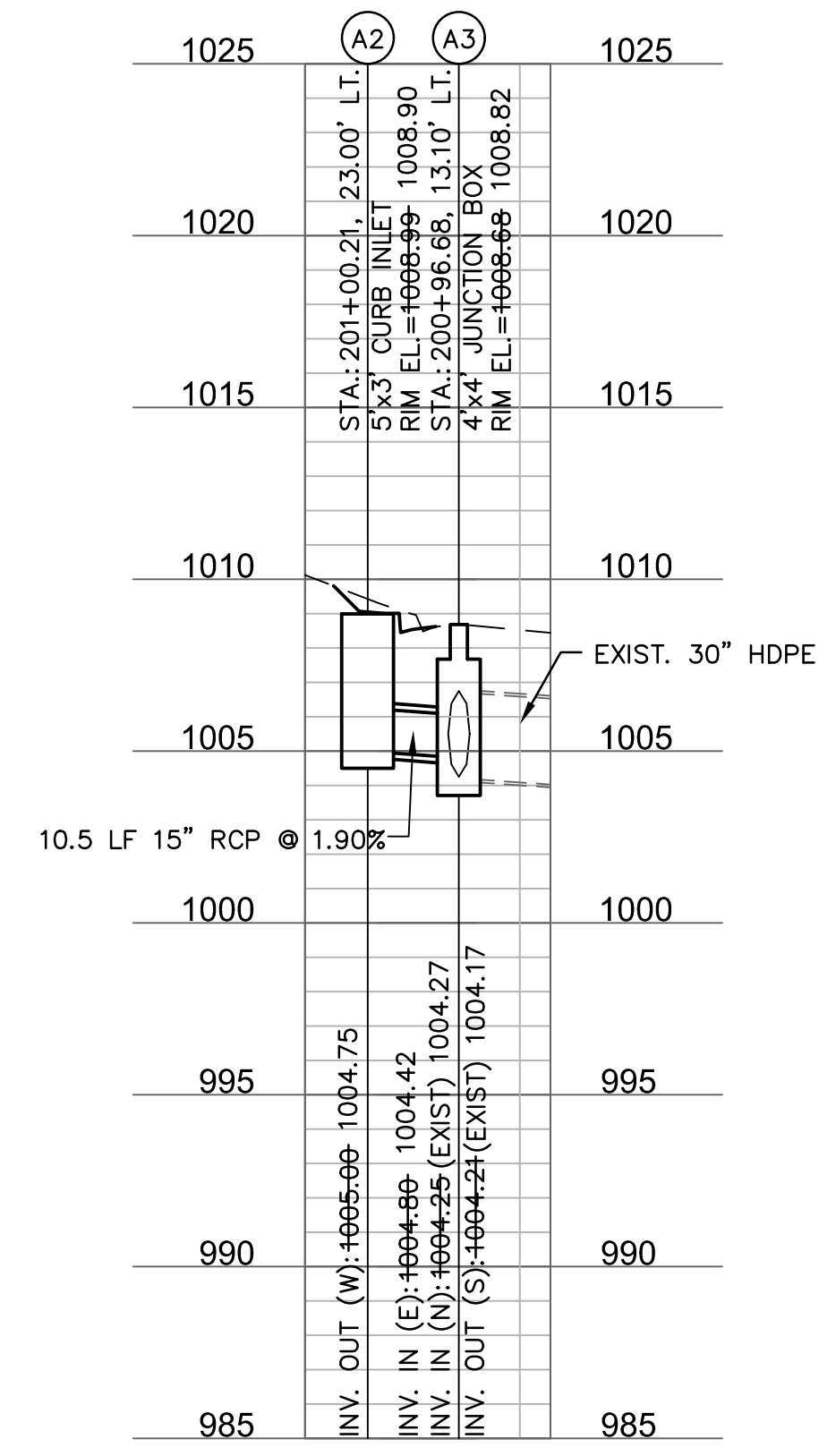
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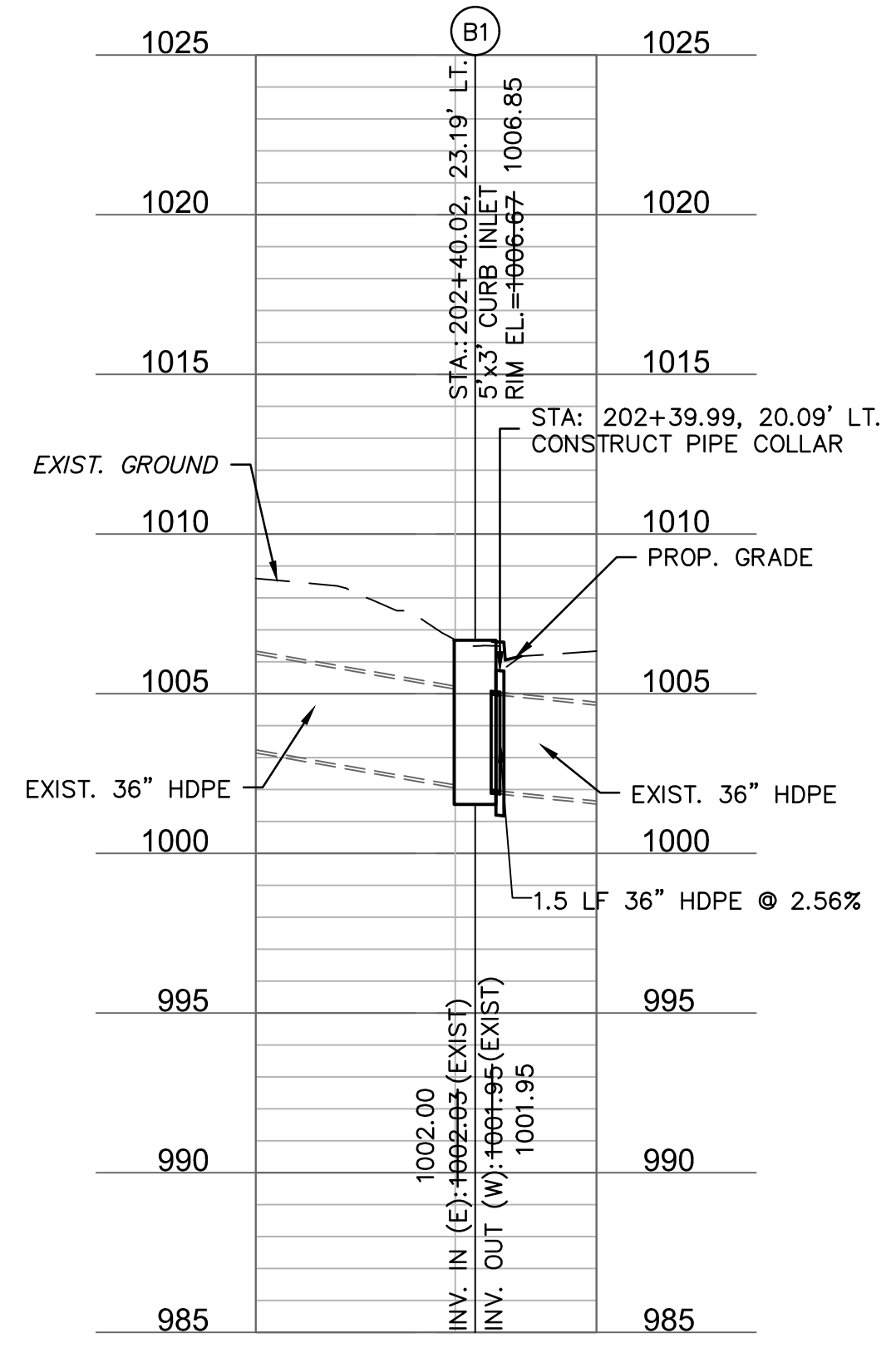
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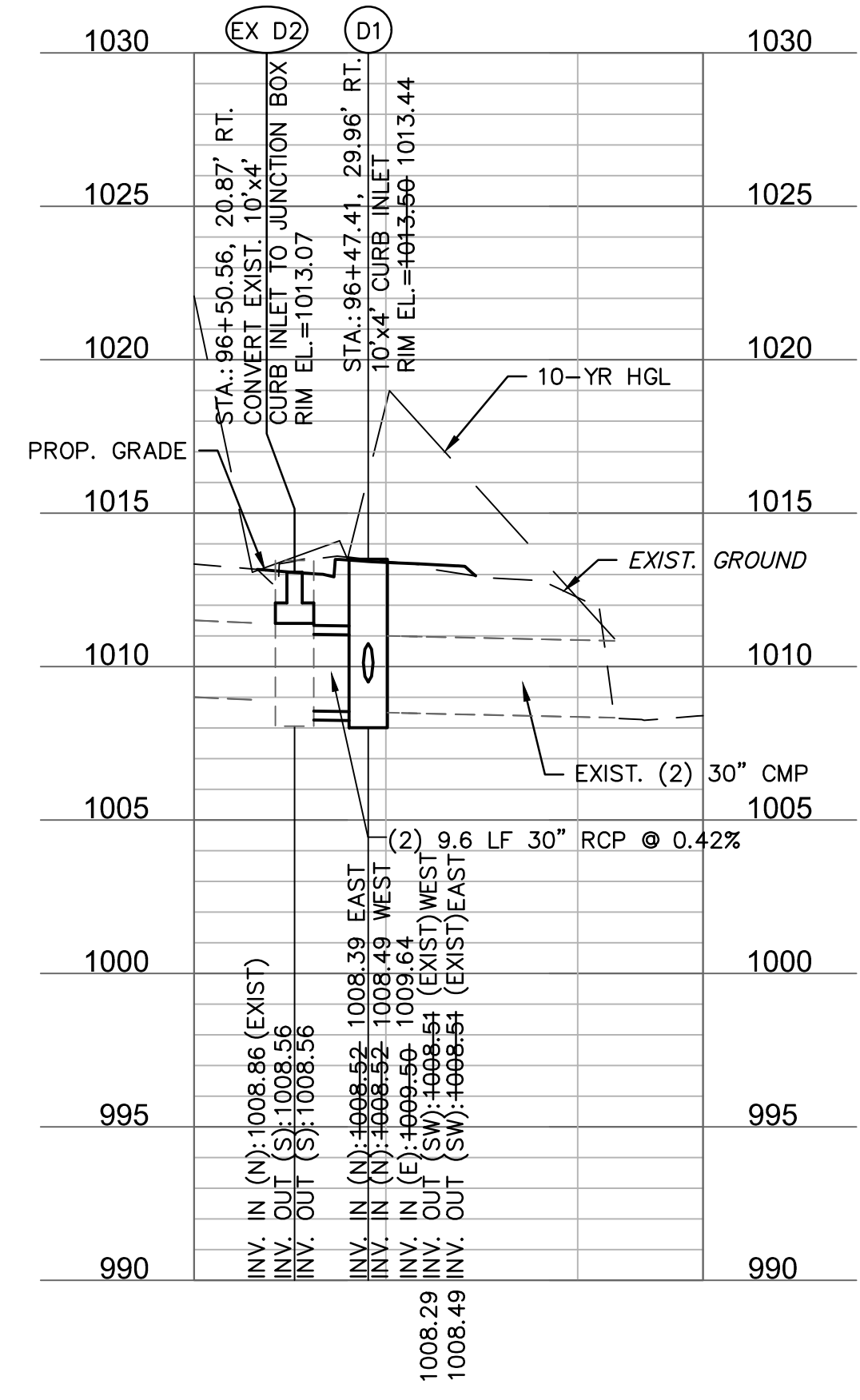
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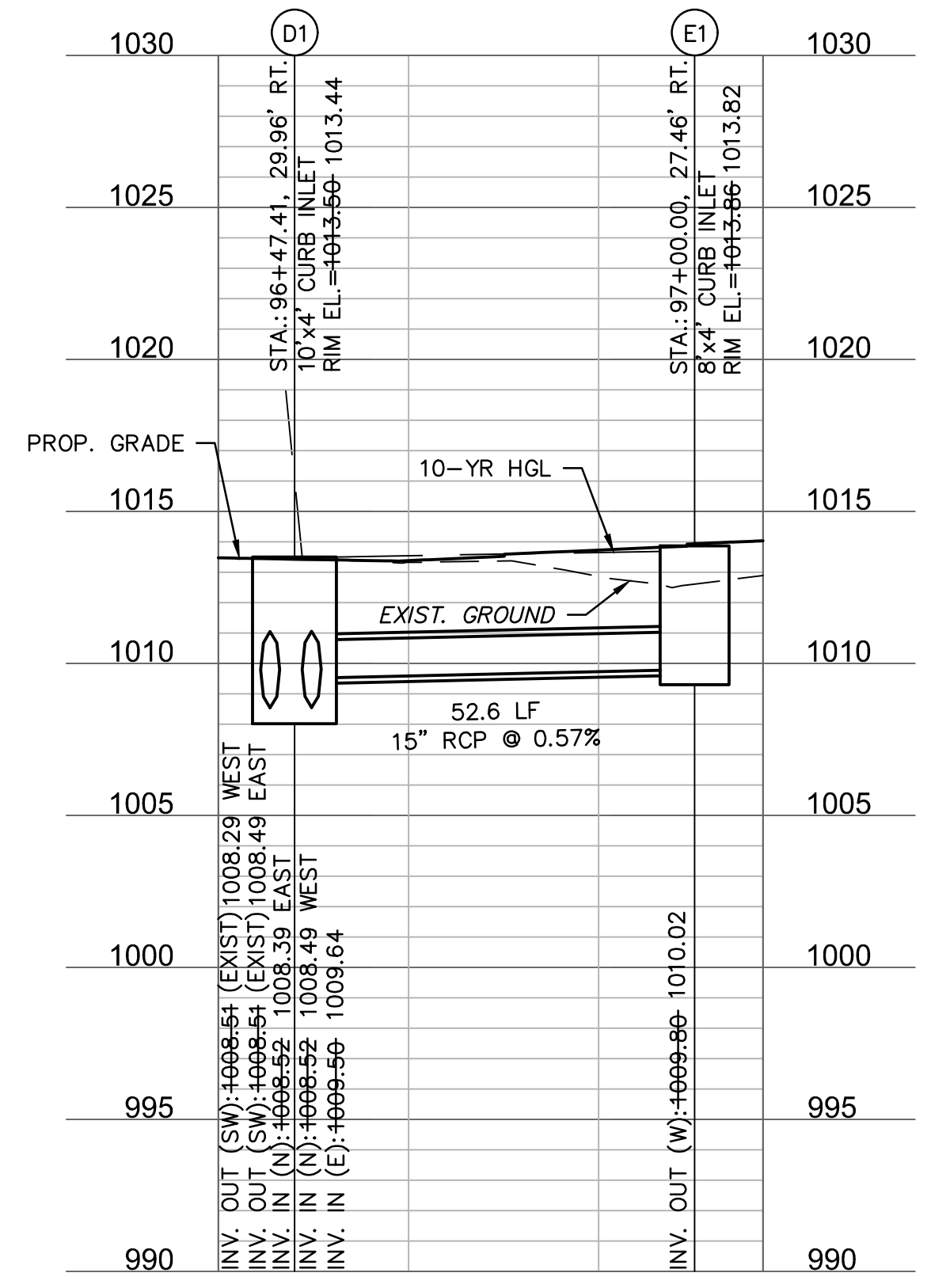
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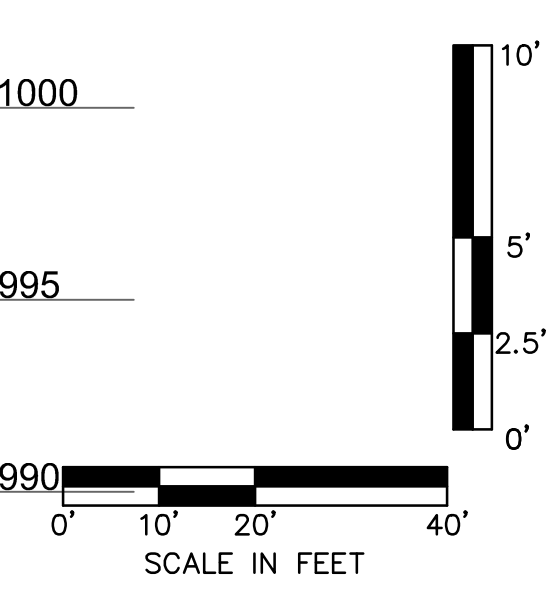
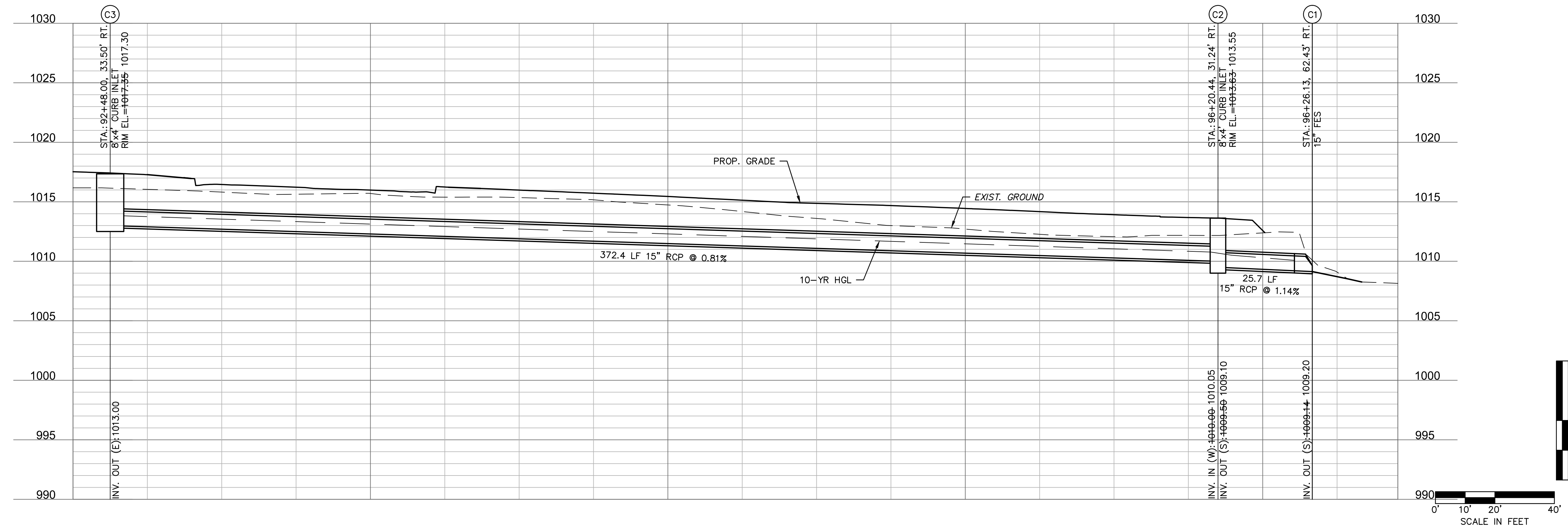
STORM LINE D



STORM LINE E



STORM LINE C



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RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH

STORM SEWER PROFILES

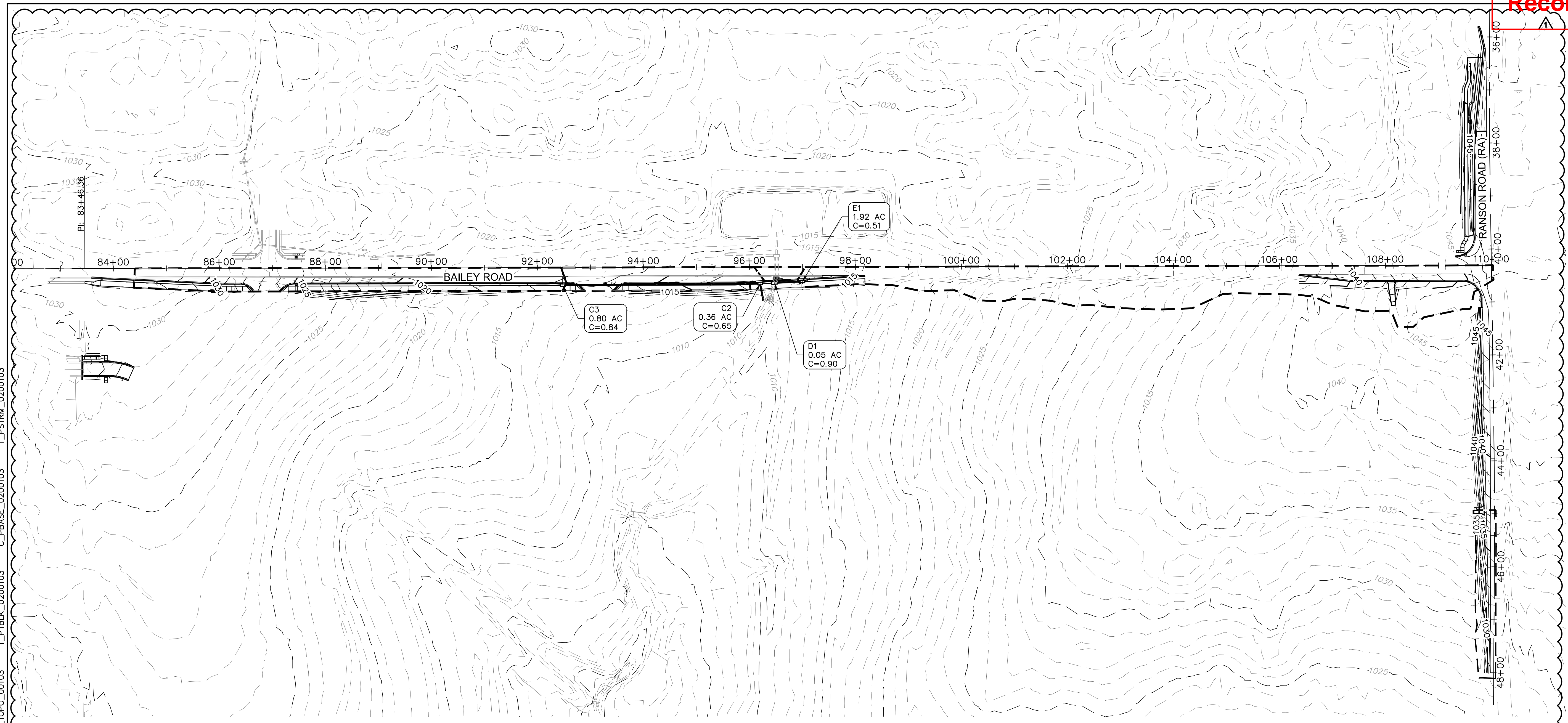
LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2021

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_STRM01_0203004
 DATE: 2022-11-04

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 USER: mrobertson



10 YEAR STORM SEWER STRUCTURES

Label	Inlet	Inlet Location	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Inlet C	Inlet Drainage Area (acres)	Total Inlet Tc (min)	Local Intensity (in/h)	System Intensity (in/h)	System Rational Flow (cfs)	Curb Opening Length (ft)	Flow (Captured) (cfs)	Flow (Total Bypassed) (cfs)	Capture Efficiency (Calculated) (%)	Bypass Target	Longitudinal Slope (Inlet) (%)	Road Cross Slope (%)	Spread / Top Width (ft)	Depth (Gutter) (in)
C2	Standard Curb Inlet	On Grade	1,013.63	1,009.50	0.65	0.36	5.00	7.35	7.00	6.27	6.00	2.45	0.13	95.00	D1	0.51	2.00	10.80	2.60
C3	Standard Curb Inlet	On Grade	1,017.35	1,013.00	0.84	0.80	5.00	7.35	7.35	4.13	8.00	4.13	0.85	83.00	C2	1.09	2.00	12.00	2.90
D1	Standard Curb Inlet	In Sag	1,013.50	1,008.51	0.90	0.05	5.00	7.35	5.17	210.55	8.00	3.19	0.00	100.00	N/A	N/A	2.00	11.00	3.20
E1	Standard Curb Inlet	On Grade	1,013.86	1,009.80	0.51	1.92	9.80	6.12	6.12	3.82	8.00	3.82	2.27	62.70	D1	1.15	2.00	12.60	3.50

DRAINAGE MAP &
 STORM SEWER CALCULATIONS
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_DRN01_0200103
 DATE: 2022-11-04

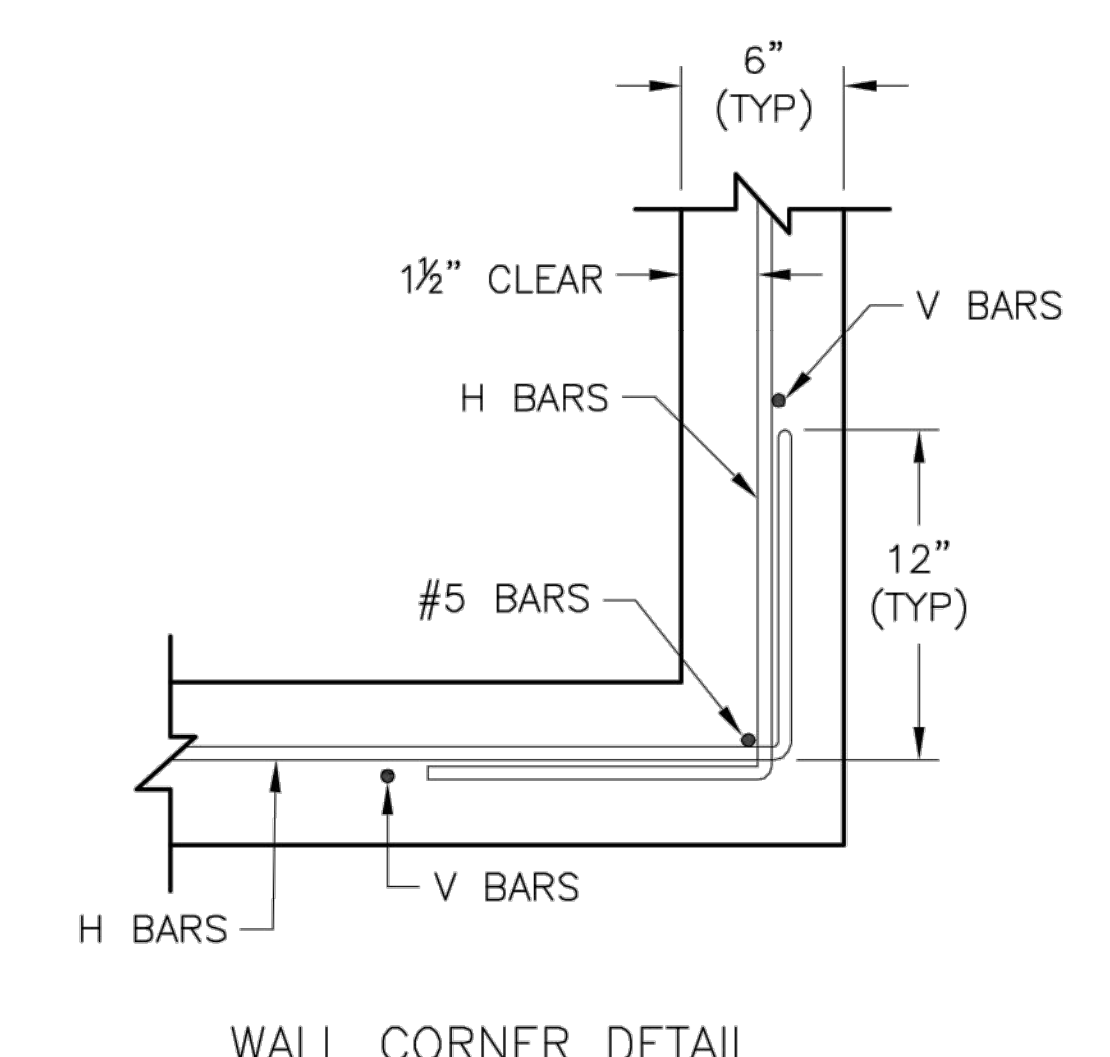
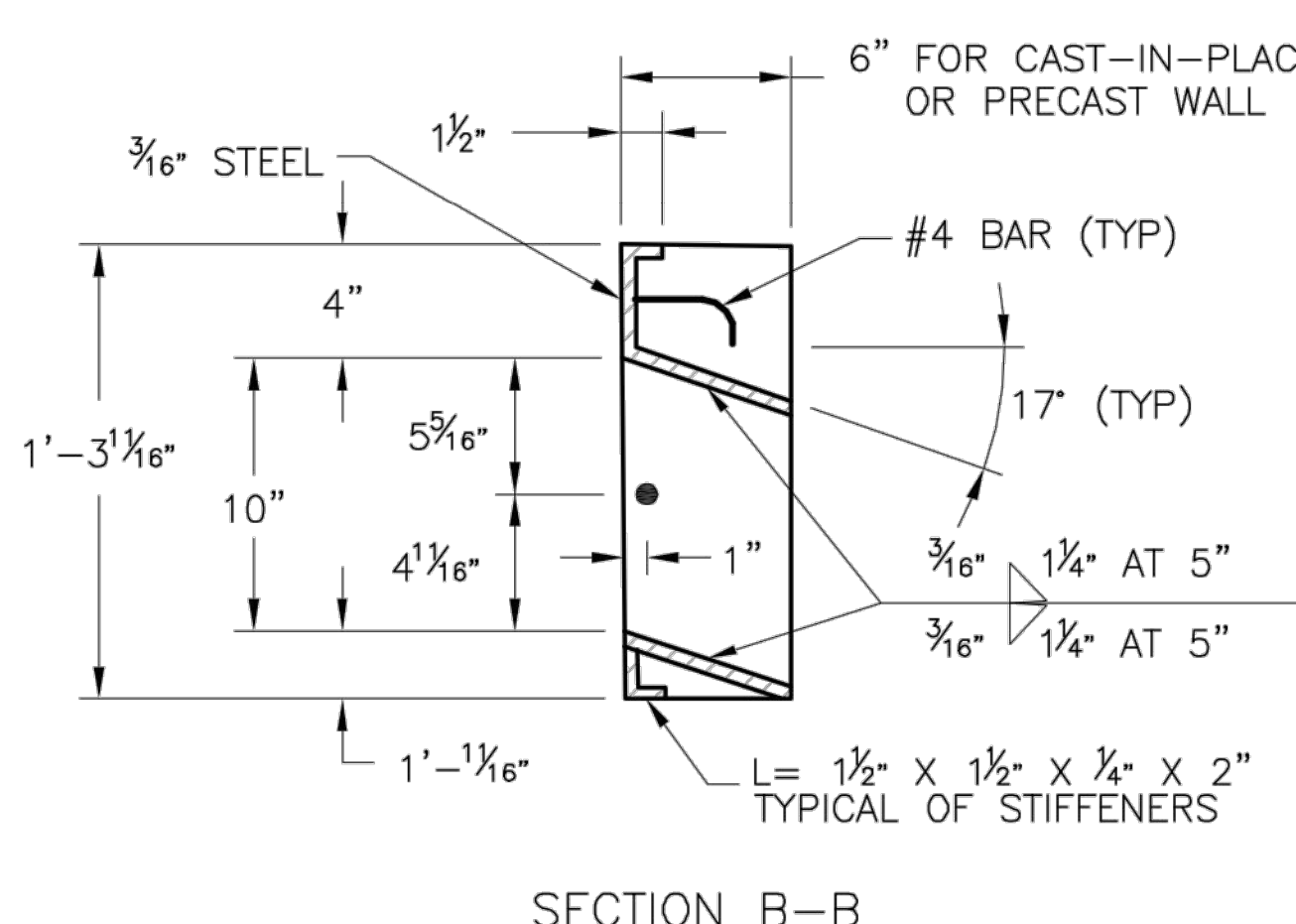
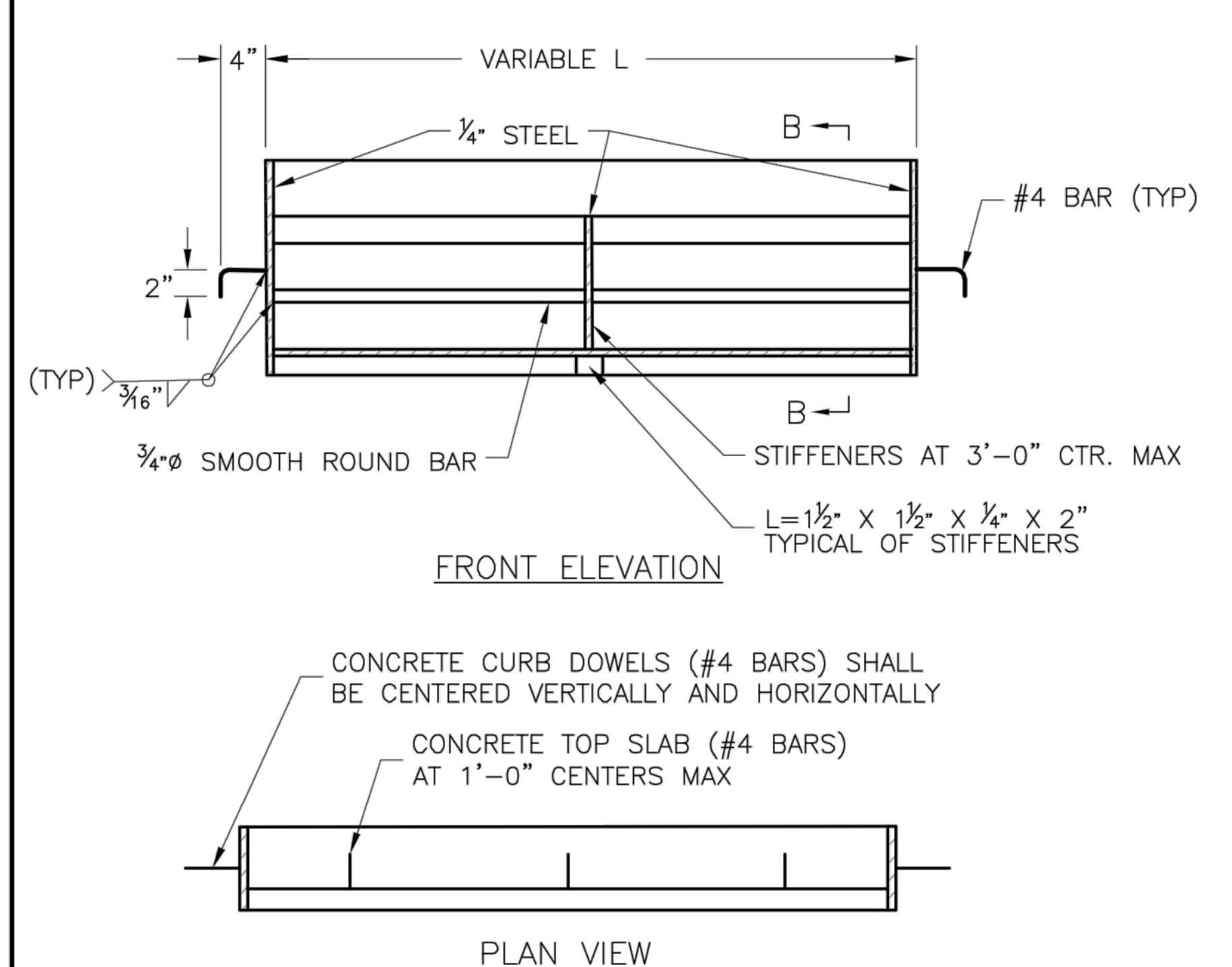
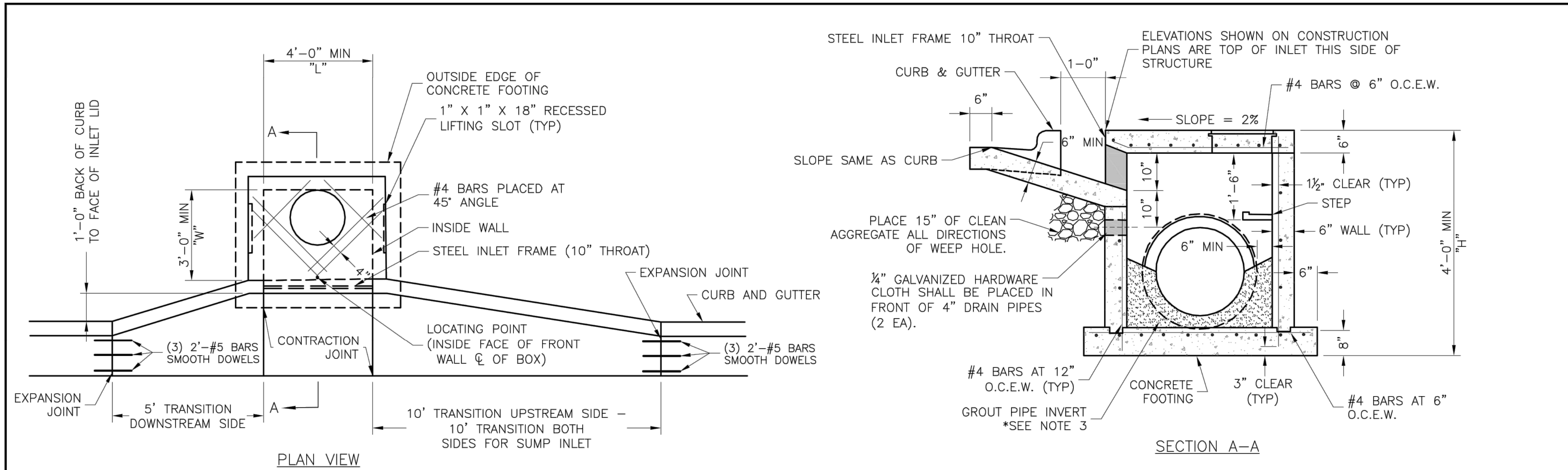
REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH

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 Overland Park, KS 66213-4760 FAX: 913.381.1174 www.olson.com

DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\ROBR\Lee Summit Plan Set - (Century and Middle School Drives)\DETAILS\STORM SEWER DETAILS\STRMDTL01_0200103.dwg
 DATE: Nov 07, 2022 1:58pm XREFS: T_P\BLK_0200103
 USER: mrobertson



- STEEL FRAME NOTES:**
1. ALL WELDS SHALL BE PERFORMED IN ACCORDANCE WITH APPROPRIATE AWS SPECIFICATIONS AND PROCEDURES.
 2. ALL WELDS ON EXPOSED SURFACES SHALL BE DRESSED SO AS TO PROVIDE A PLEASING FINISHED APPEARANCE.
 3. THE ENTIRE FRAME SHALL BE PAINTED A SINGLE COAT OF CHEM-PRIME #37H-78 PRIMER (GRAY) OR EQUAL.

- GENERAL NOTES:**
1. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
 2. FLOW LINES LISTED ON THE PROJECT PLANS ARE LISTED AT THE INSIDE FACE OF THE WALL.
 3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
 4. LOCATE MH RING AND COVER ON BLANK WALL IF POSSIBLE.
 5. STEPS SHALL BE SPACED AT 1'-4" O.C. VERTICALLY ON BLANK WALL IF POSSIBLE.
 6. BEVEL ALL EXPOSED EDGES WITH 3/4" CHAMFER OR 1/2" TOOLED EDGE.
 7. ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
 8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
 9. LIFTING RINGS SHALL BE REMOVED AND SEALED WITH NON-SHRINKABLE GROUT
 10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

LEE'S SUMMIT
MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS
 City: CITY OF LEE'S SUMMIT, MO
 Location: LEE'S SUMMIT, JACKSON COUNTY, MO
 Sheet Name: CURB INLET DETAIL

Drawn By: MJF
 Checked By: DL
 Date: 04/17
 Proj. #:

STM-1

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REVISIONS

STORM SEWER DETAILS

LEE'S SUMMIT, MISSOURI

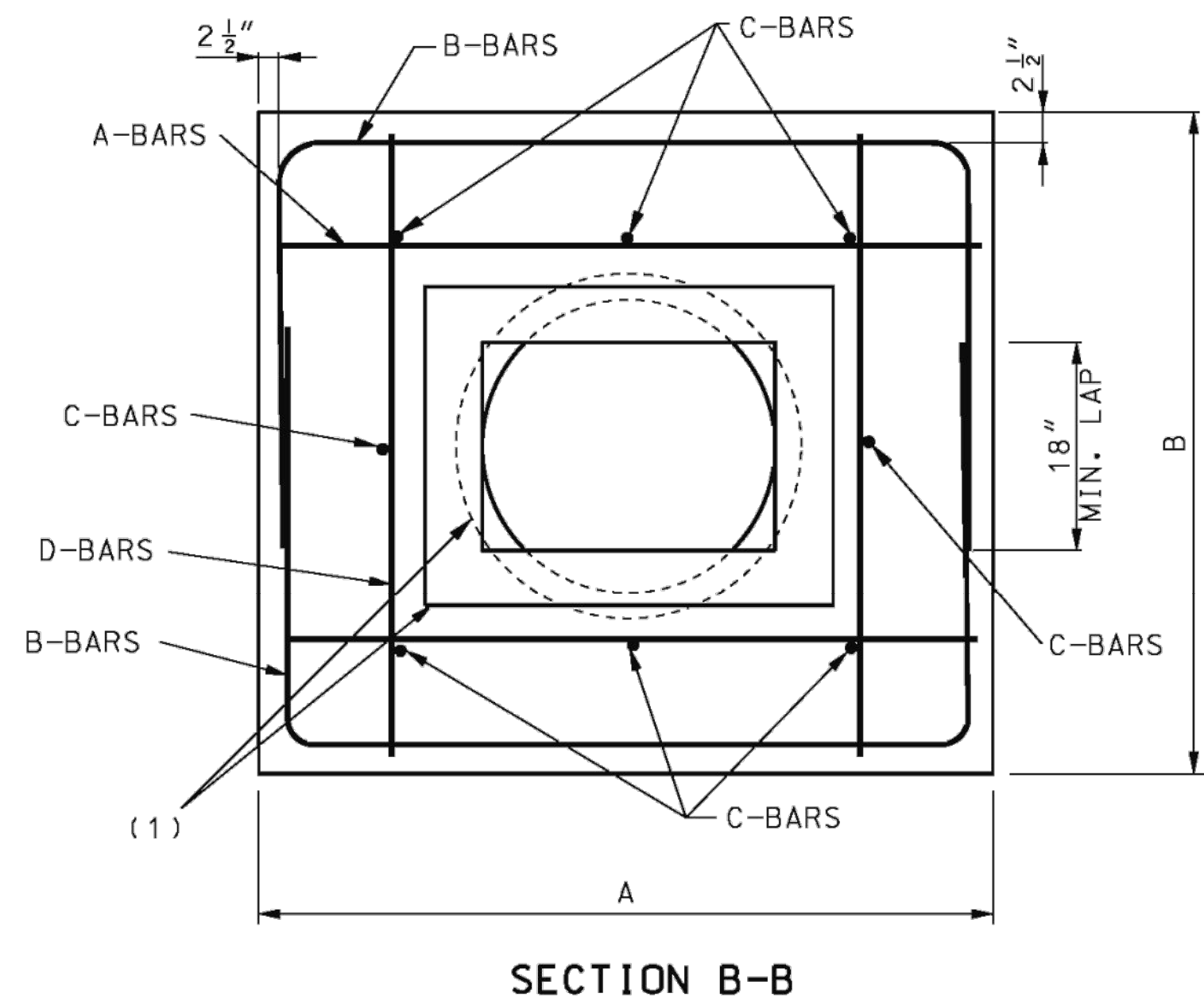
2021

LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO: STRMDTL01_0200103
 DATE: 2022-11-04

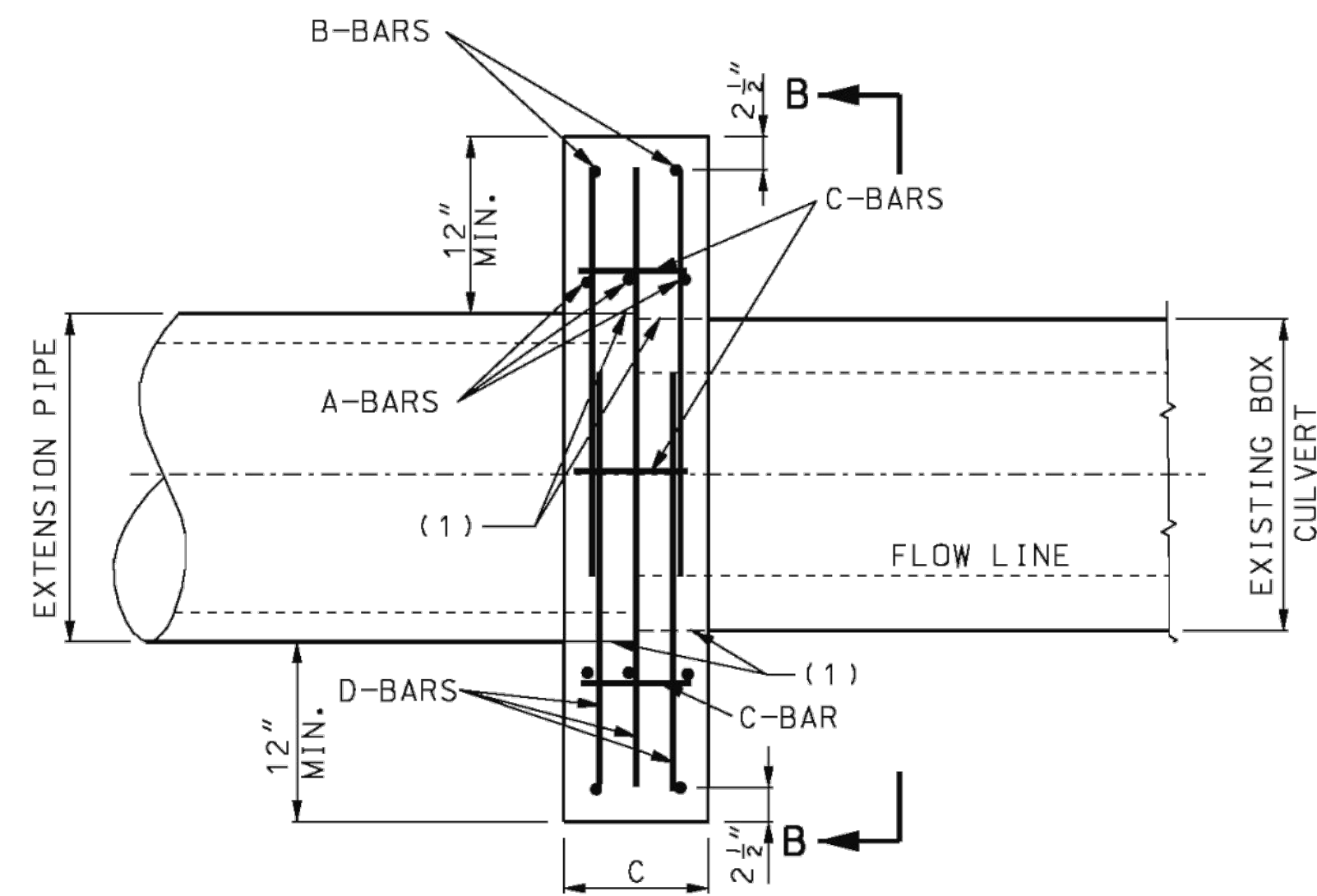
SHEET 45 OF 101

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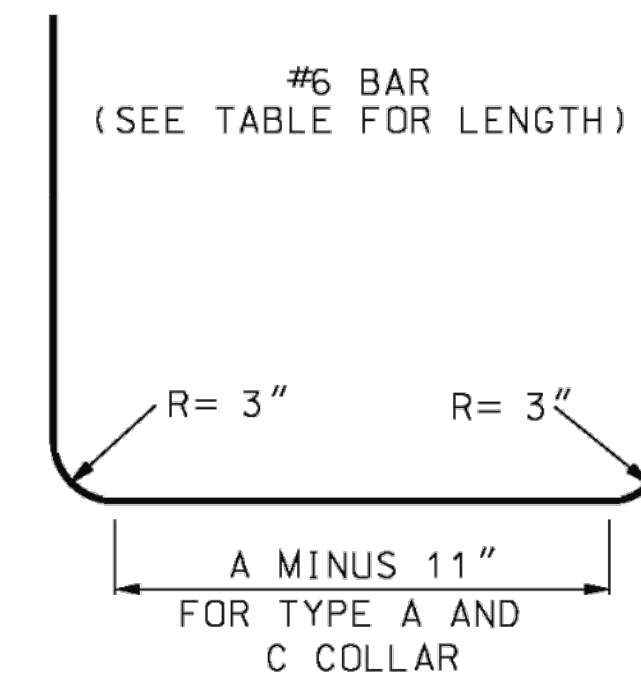


SECTION B-B

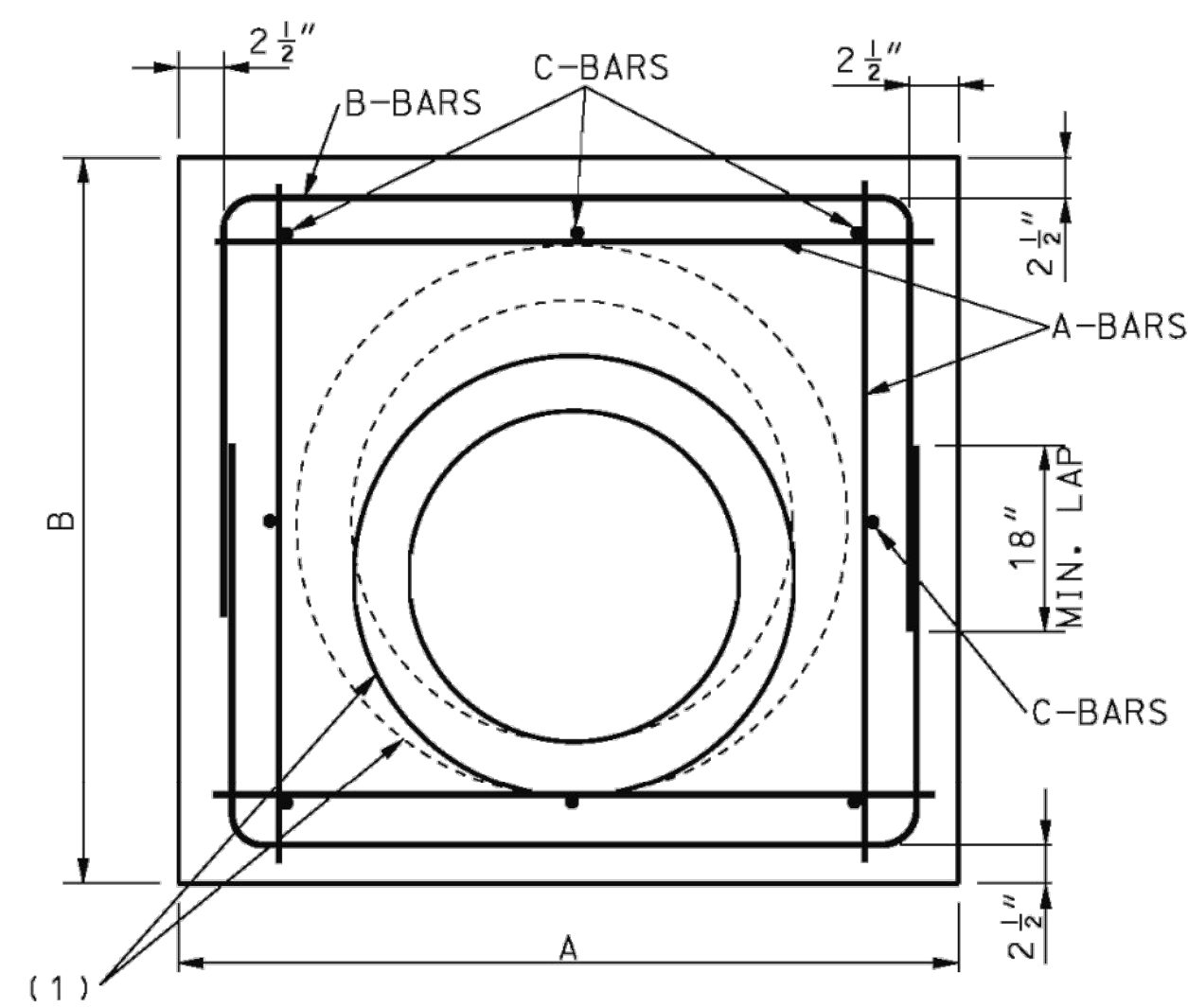
TYPE C COLLAR



ELEVATION
(FOR BOX CULVERT TO PIPE)

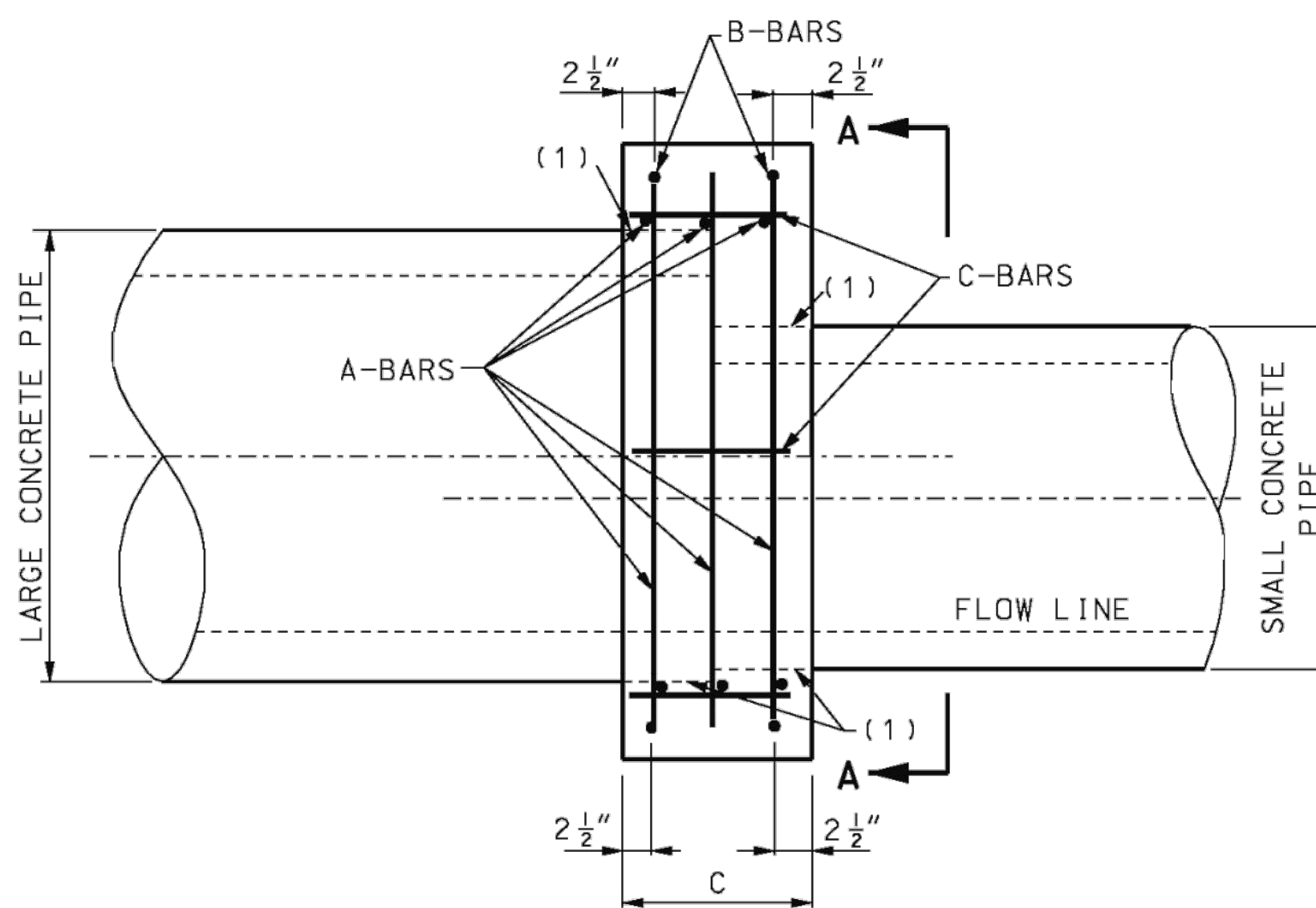


BENDING DIAGRAM FOR B-BARS



SECTION A-A

TYPE A COLLAR



ELEVATION
(FOR CONCRETE PIPE TO CONCRETE PIPE)

(1) ONE LAYER COMMERCIALY AVAILABLE
55-POUND ROLL ROOFING.

<p>MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)</p>	
<p>PIPE COLLARS</p>	
<p>STATE OF MISSOURI KATHRYN PHILLIPS HARVEY NUMBER PE-23751 PROFESSIONAL ENGINEER</p> <p>THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.</p>	<p>DATE EFFECTIVE: 10/01/2000 DATE PREPARED: 8/21/2009</p>
<p>604.40F</p>	<p>SHEET NO. 1 OF 2</p>

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STORM SEWER DETAILS

LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

REVISIONS

RECORD DRAWINGS

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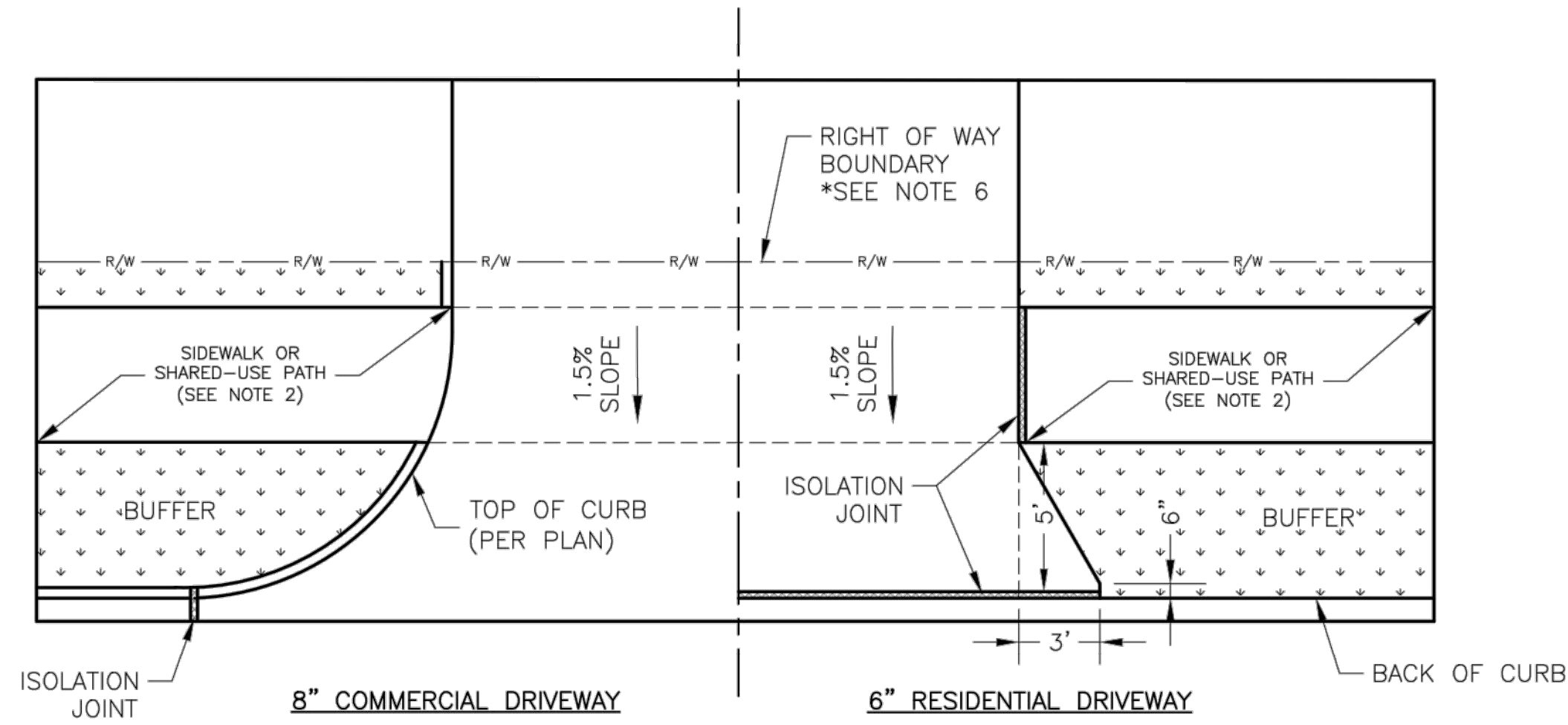
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 Overland Park, KS 66213-4760 FAX: 913.381.1174
 www.olsosn.com

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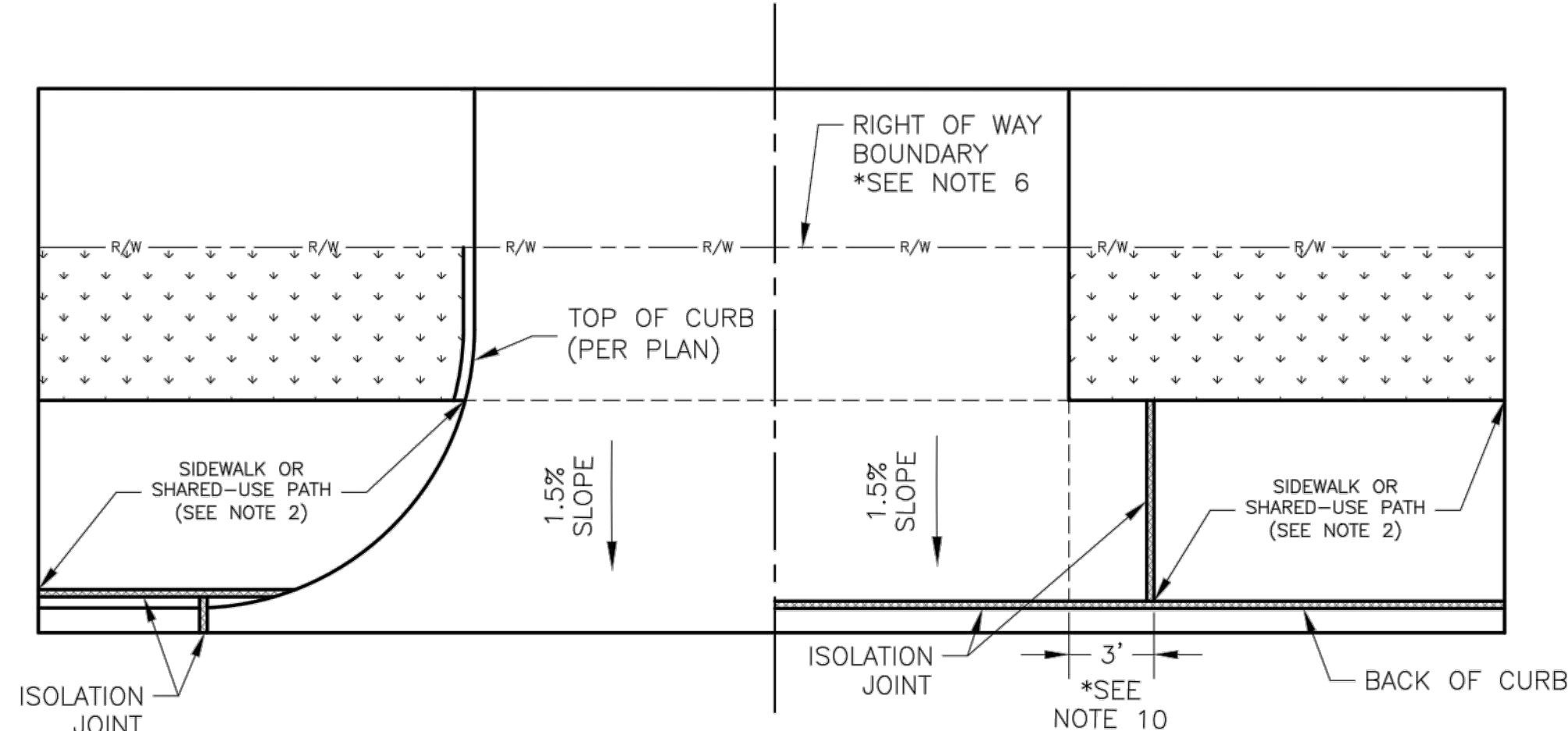
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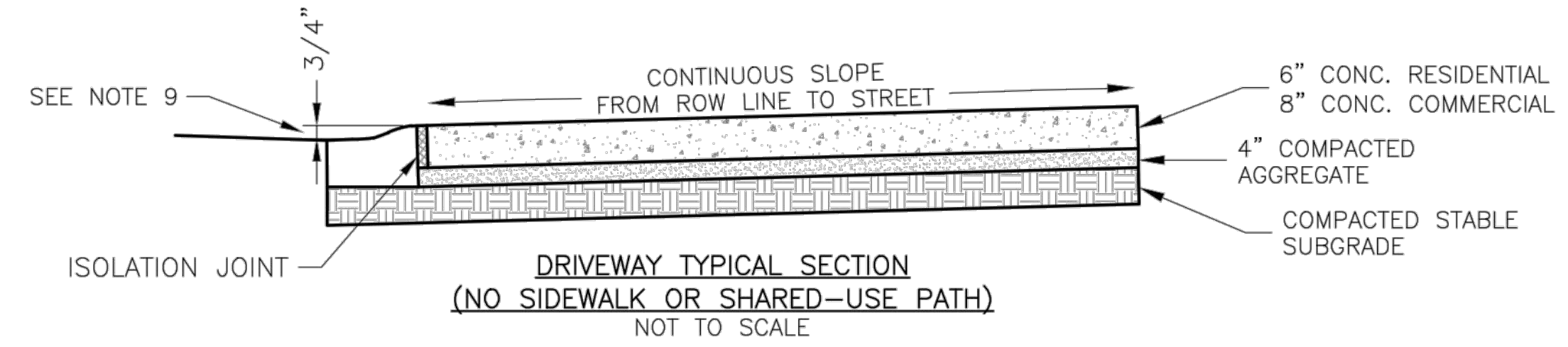
DRIVEWAY WITH BUFFER
NOT TO SCALE



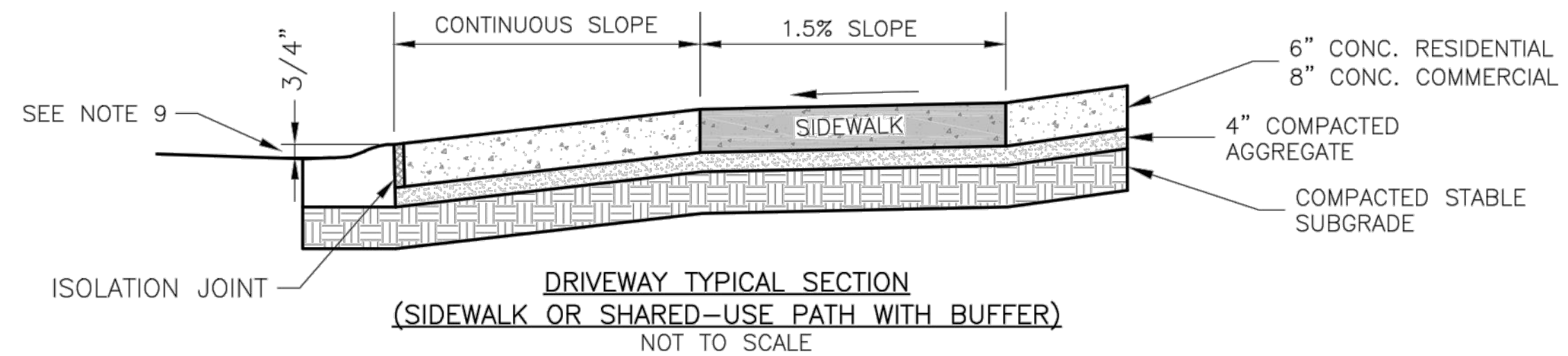
DRIVEWAY WITHOUT BUFFER
NOT TO SCALE

GENERAL NOTES

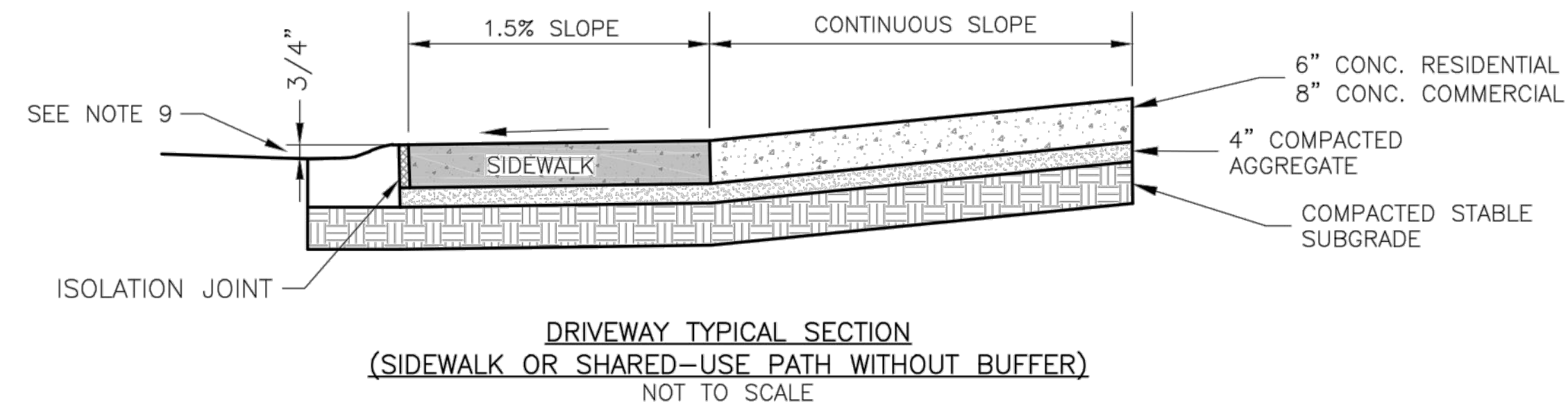
1. SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL GEN-3B, SIDEWALK/SHARED USE PATH RAMP AT DRIVEWAY DETAIL).
3. JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR RESIDENTIAL DRIVEWAYS.
4. KCMMB 4K CONCRETE MIX IS REQUIRED FOR ALL CURBS.
5. COMMERCIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMMB 4K CONCRETE MIX.
6. RESIDENTIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, KCMMB 4K CONCRETE MIX IS RECOMMENDED. OTHER CONCRETE MIXES NEEDS TO BE APPROVED BY CITY INSPECTOR.
7. A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
8. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
9. 3/4" FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURB ONLY). MUST MAINTAIN ORIGINAL FLOWLINE OF CURB.
10. SIDEWALK ADJOINING CURB SHALL BE 6" THICK, EXTENDING 3' FROM THE DRIVEWAY.
11. THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.



DRIVEWAY TYPICAL SECTION
(NO SIDEWALK OR SHARED-USE PATH)
NOT TO SCALE



DRIVEWAY TYPICAL SECTION
(SIDEWALK OR SHARED-USE PATH WITH BUFFER)
NOT TO SCALE



DRIVEWAY TYPICAL SECTION
(SIDEWALK OR SHARED-USE PATH WITHOUT BUFFER)
NOT TO SCALE

LEE'S SUMMIT MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet No: GEN-1

Drawn By: MJF
Checked By: DL
Date: 04/17

GEN-1

RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

STANDARD DETAILS	REV. NO.	DATE	REVISIONS DESCRIPTION	BY
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LEE'S SUMMIT, MISSOURI				

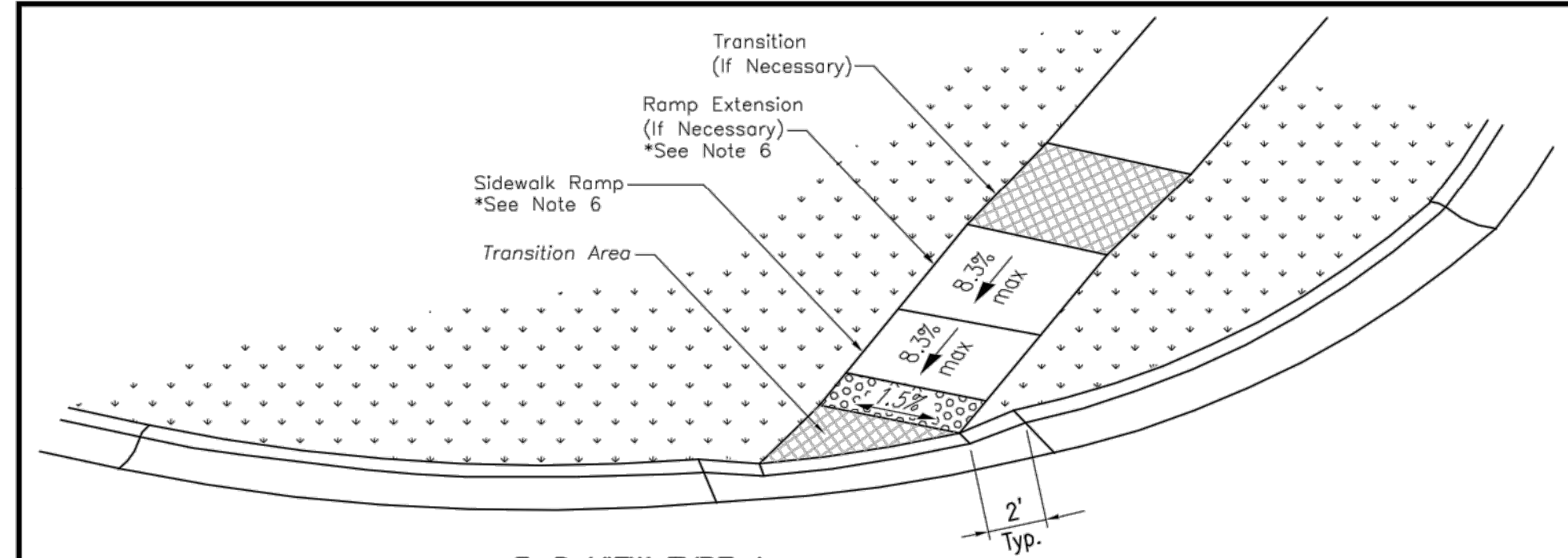
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CHECKED BY:	RPH
APPROVED BY:	RBE
QA/QC BY:	RBE
PROJECT NO.:	020-0103
DWG NO.:	T_DTL01_0200103
DATE:	2022-11-04

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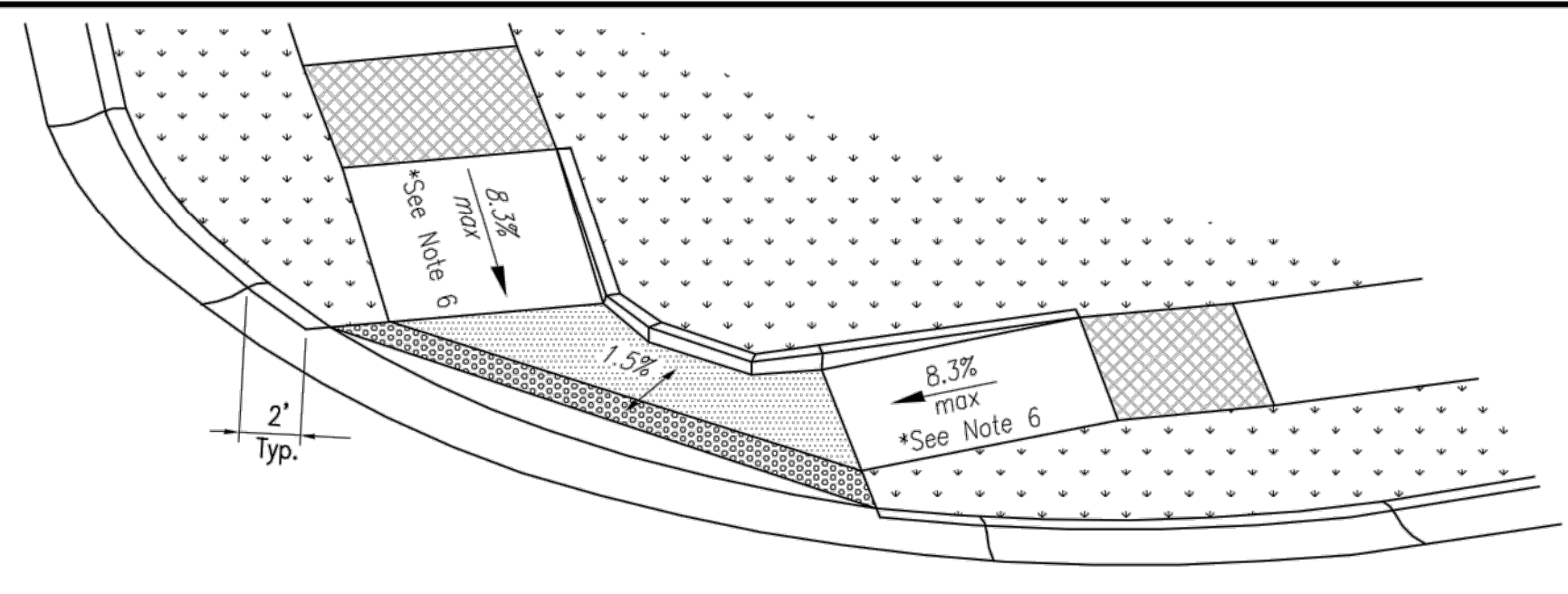
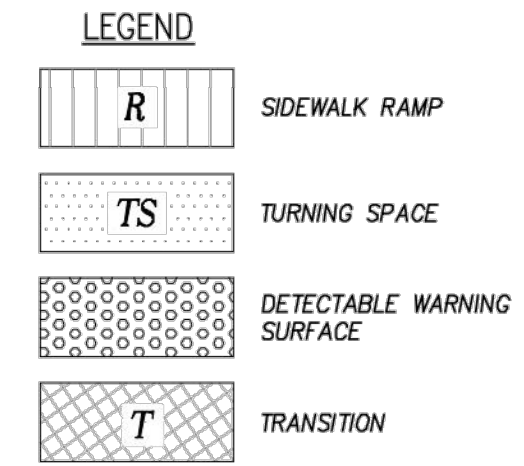
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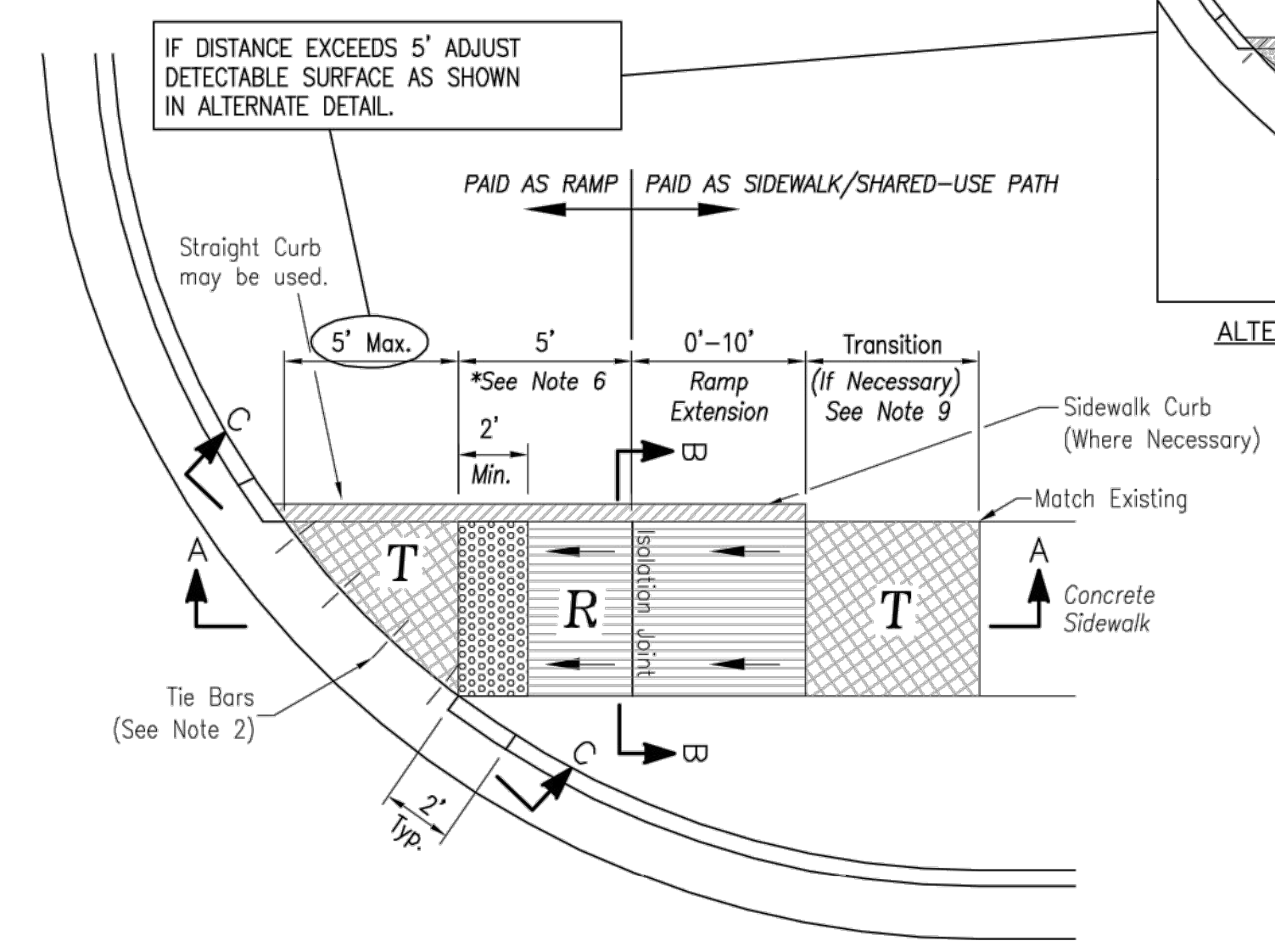
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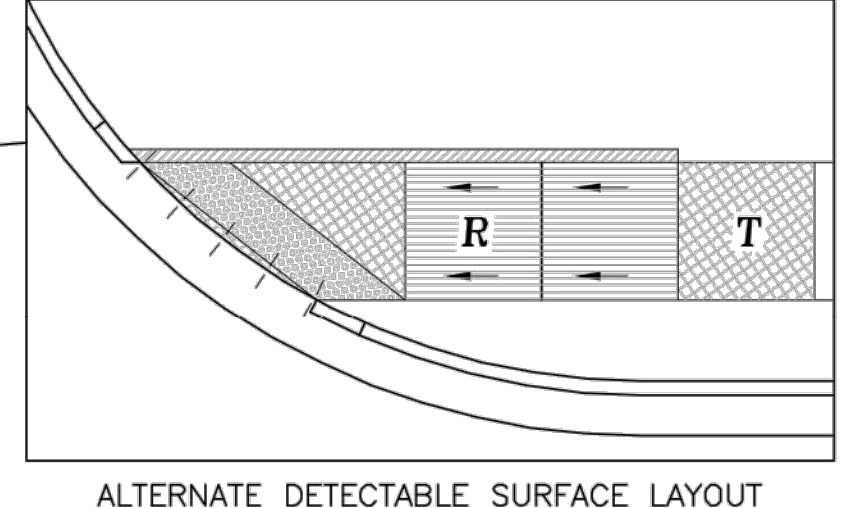
3-D VIEW TYPE A SIDEWALK/SHARED-USE RAMP



3-D VIEW TYPE B SIDEWALK/SHARED-USE RAMP



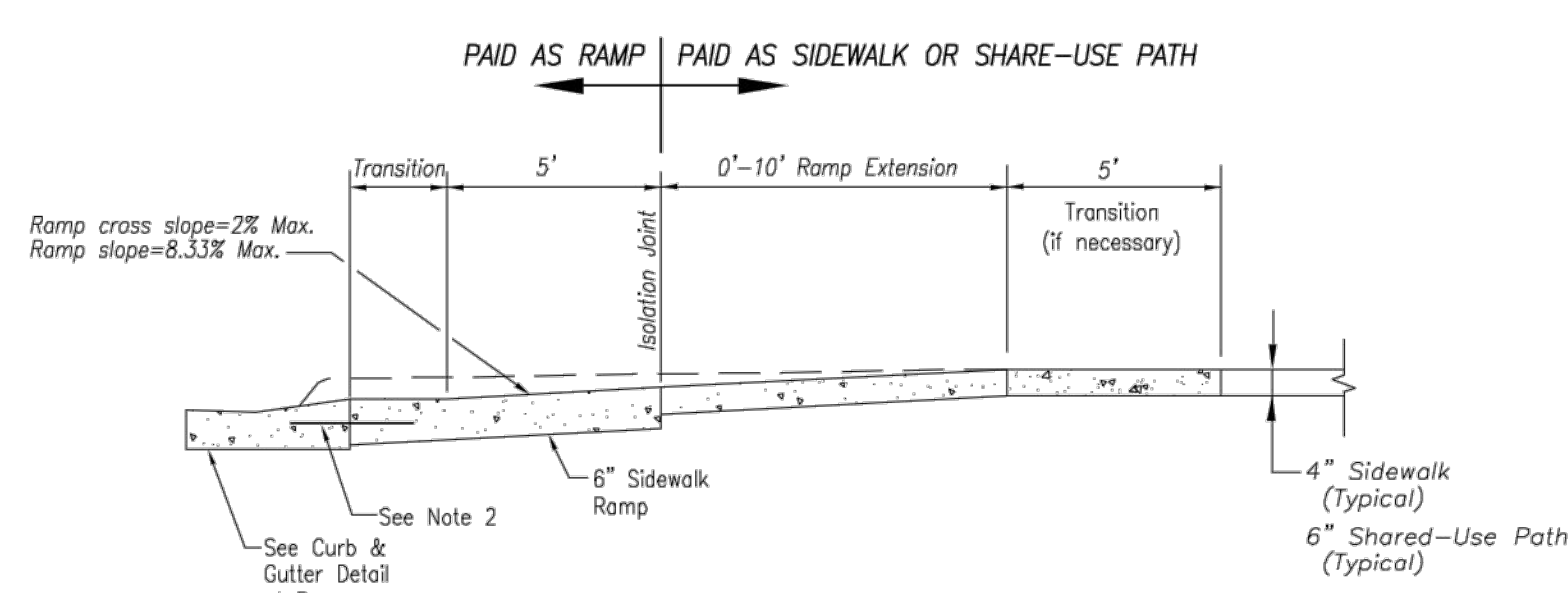
TYPE A SIDEWALK/SHARED-USE RAMP Not to Scale



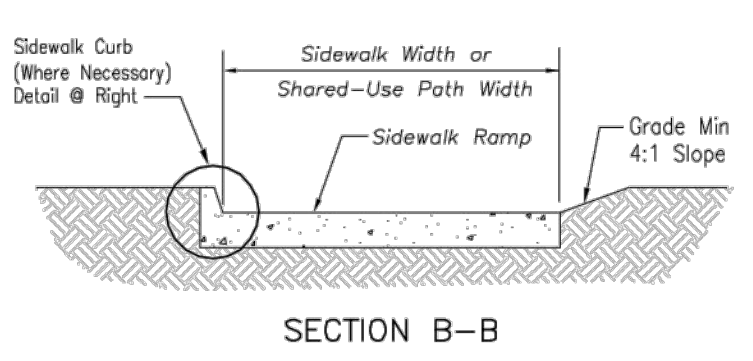
ALTERNATE DETECTABLE SURFACE LAYOUT

SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:

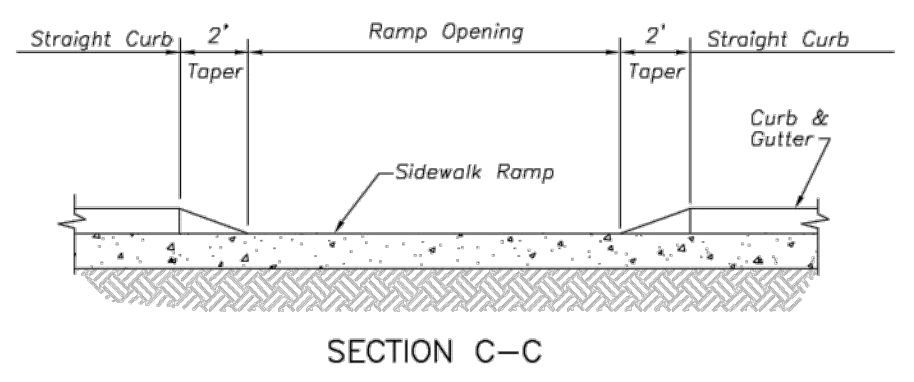
- CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
- USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
- ALL RAMP, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
- LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
- ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 150' CENTERS MAX.
- ADA MAXIMUM RAMP SLOPE = 8.33%
 ADA MAXIMUM CROSS SLOPE = 2.0%
 *ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, ±0.5%.
- TURNING SPACES SHALL BE 1.5%, ±0.5% SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
- FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR
- RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMP TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
- ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).



SECTION A-A

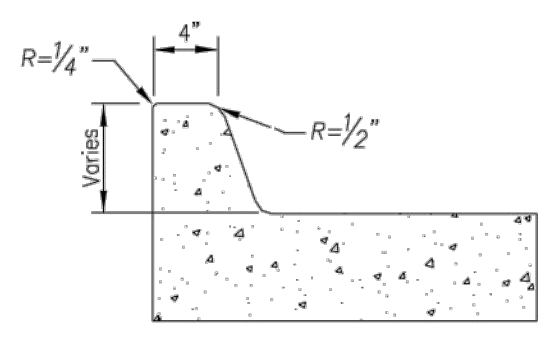


SECTION B-B

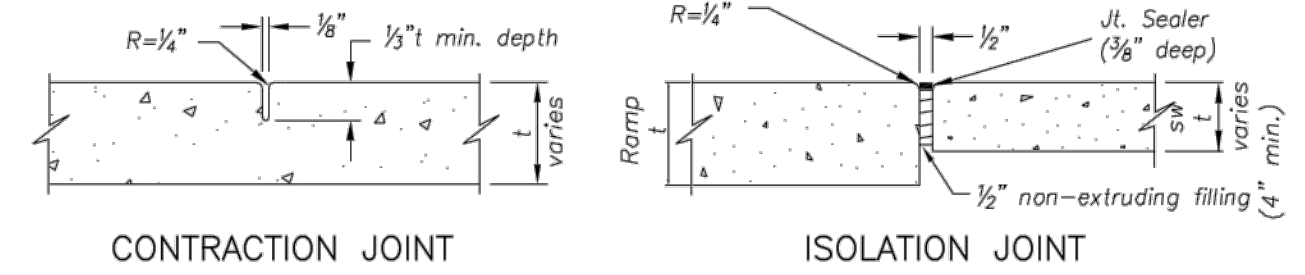


SECTION C-C

TYPE A & B SIDEWALK RAMP Not to Scale



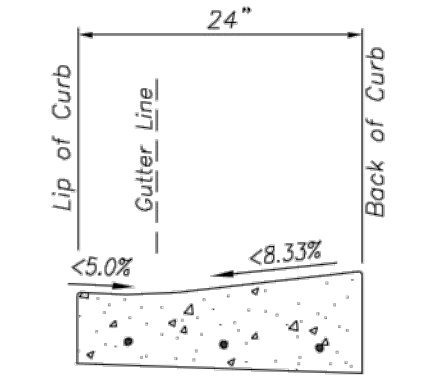
SIDEWALK CURB DETAIL Not to Scale



CONTRACTION JOINT

ISOLATION JOINT

JOINT DETAILS Not to Scale



CURB & GUTTER DETAIL AT RAMP Not to Scale

LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO
 ADA RAMP RETROFIT DETAIL

Project: LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 Lee's Summit, Missouri

Drawn By: MJF
 Checked By: DL
 Date: 04/17
 Proj. #:

GEN-3A

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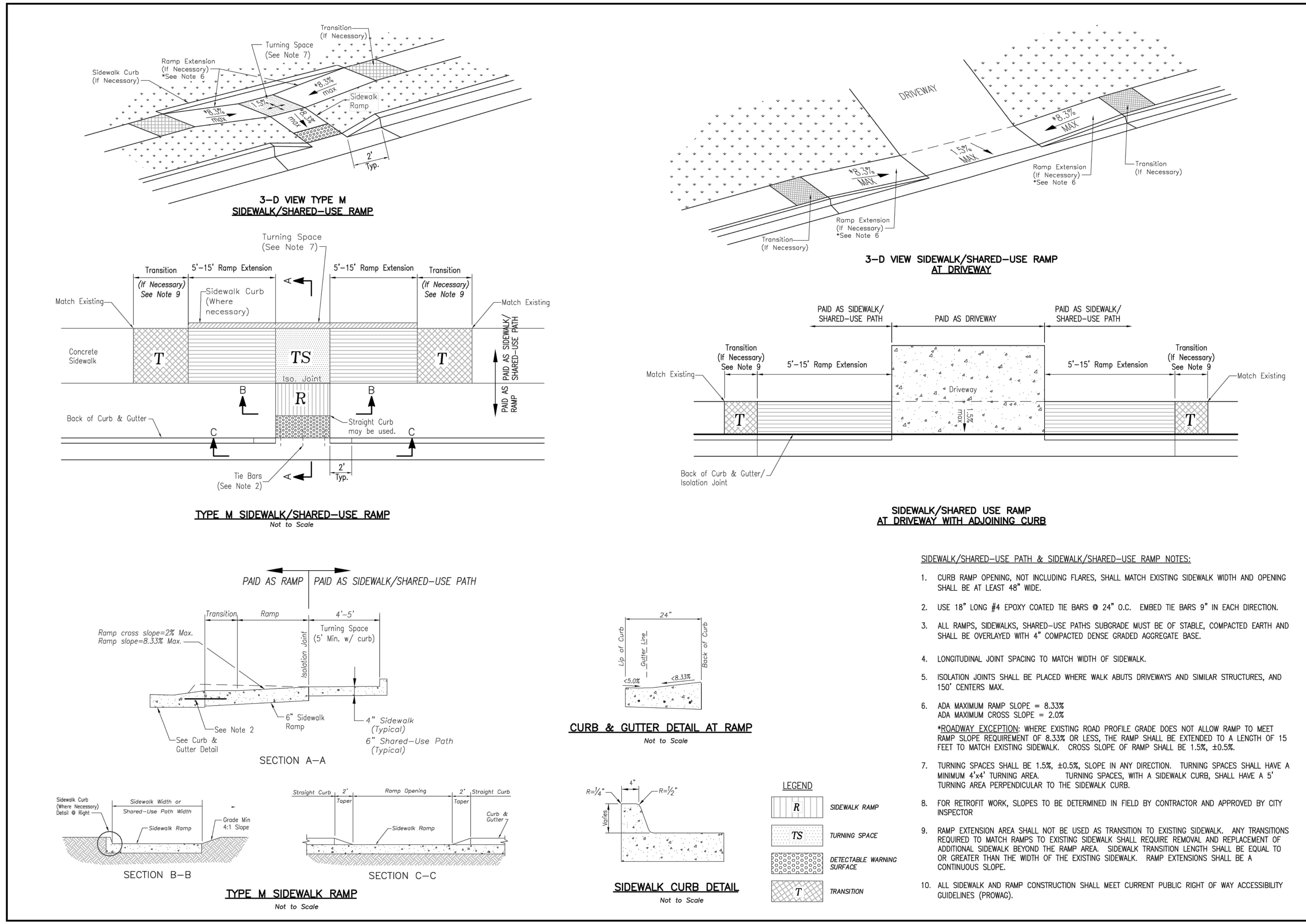
2021

STANDARD DETAILS
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: MLW
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 APPROVED BY: RBE
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LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO
 Sheet Name: ADA RAMP RETROFIT DETAIL

Drawn By: MJF
 Checked By: DL
 Date: 04/17
 Proj. #:

GEN-3B

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

STANDARD DETAILS

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

2021

LEE'S SUMMIT, MISSOURI

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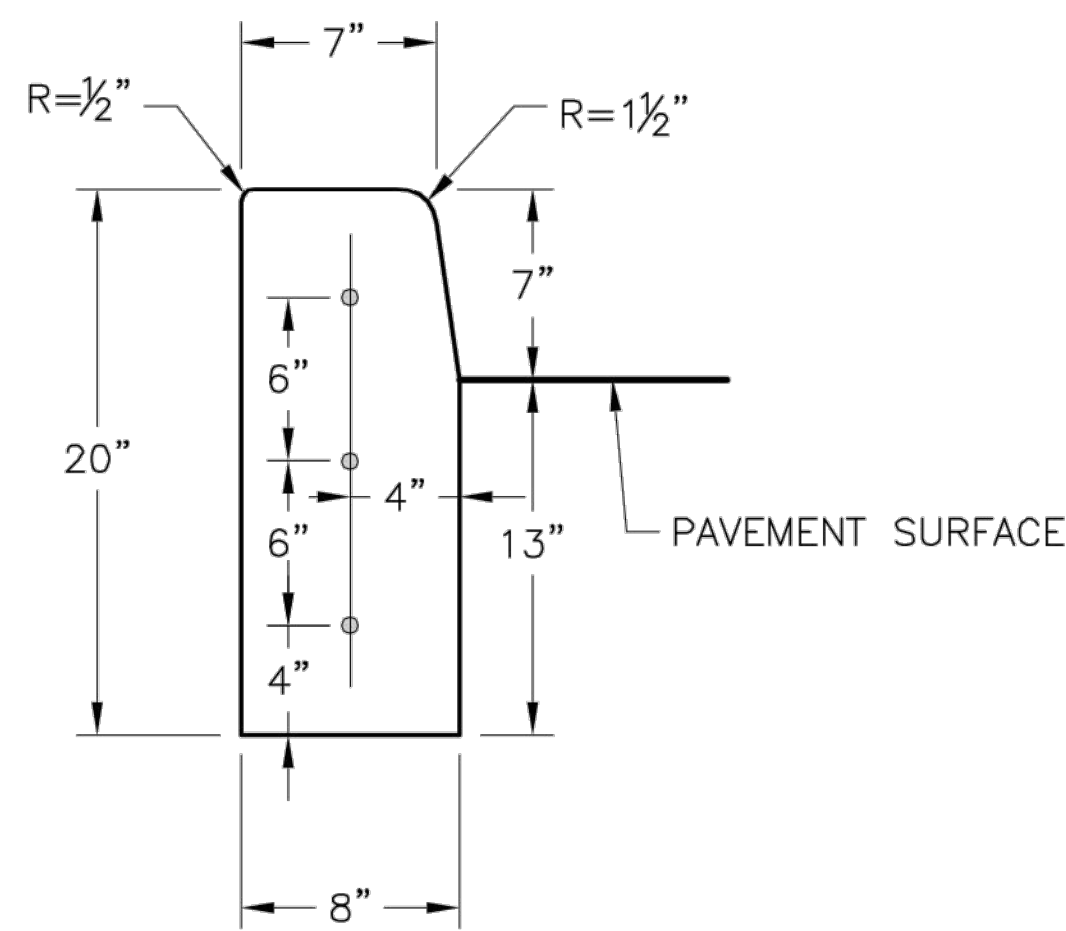
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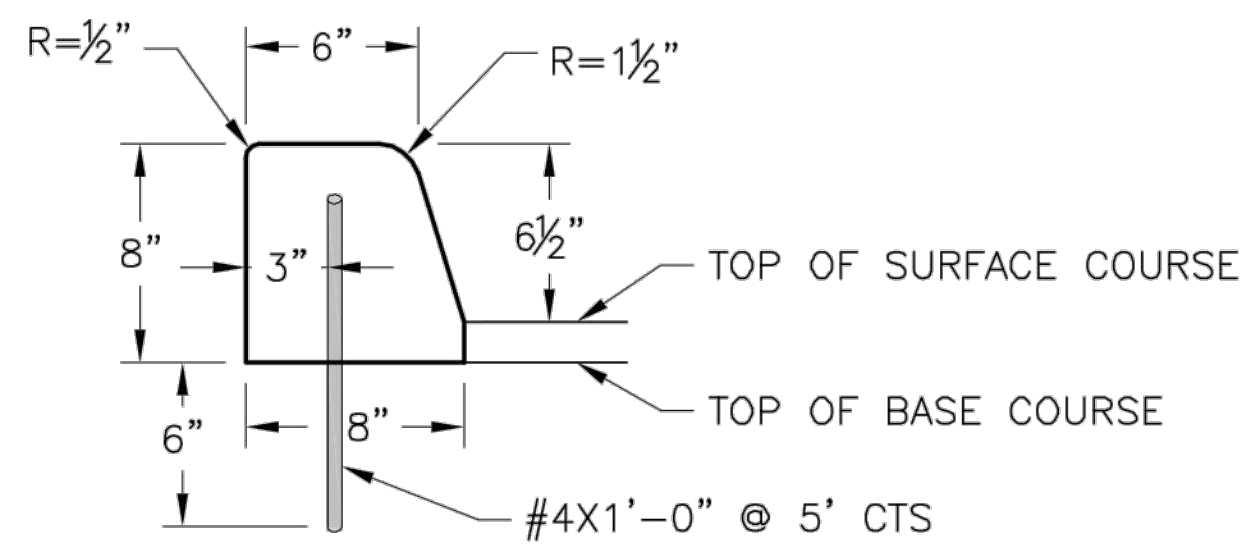
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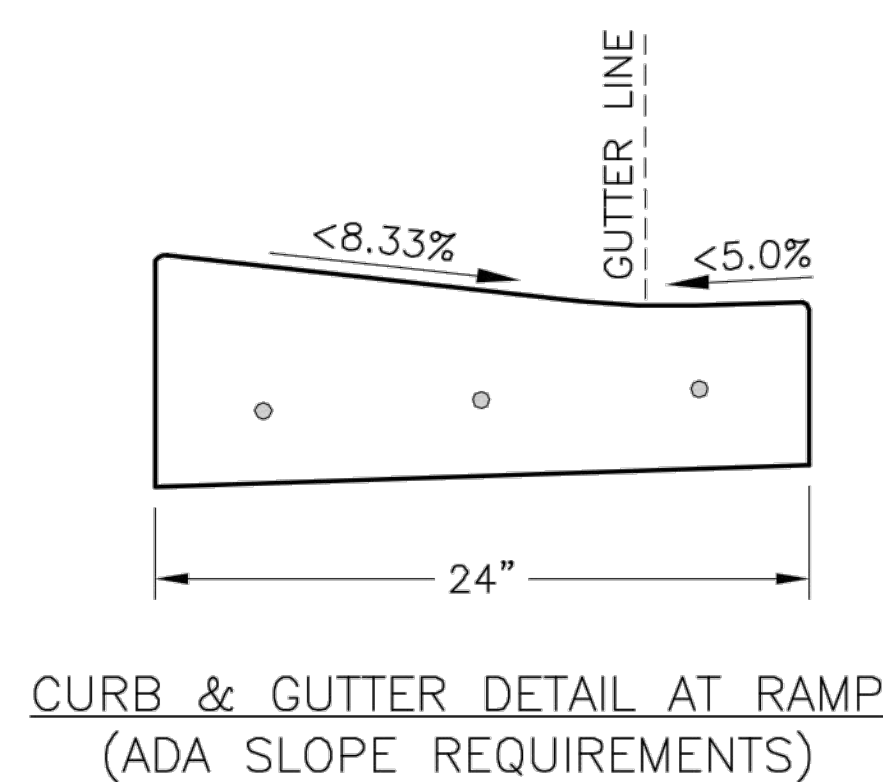
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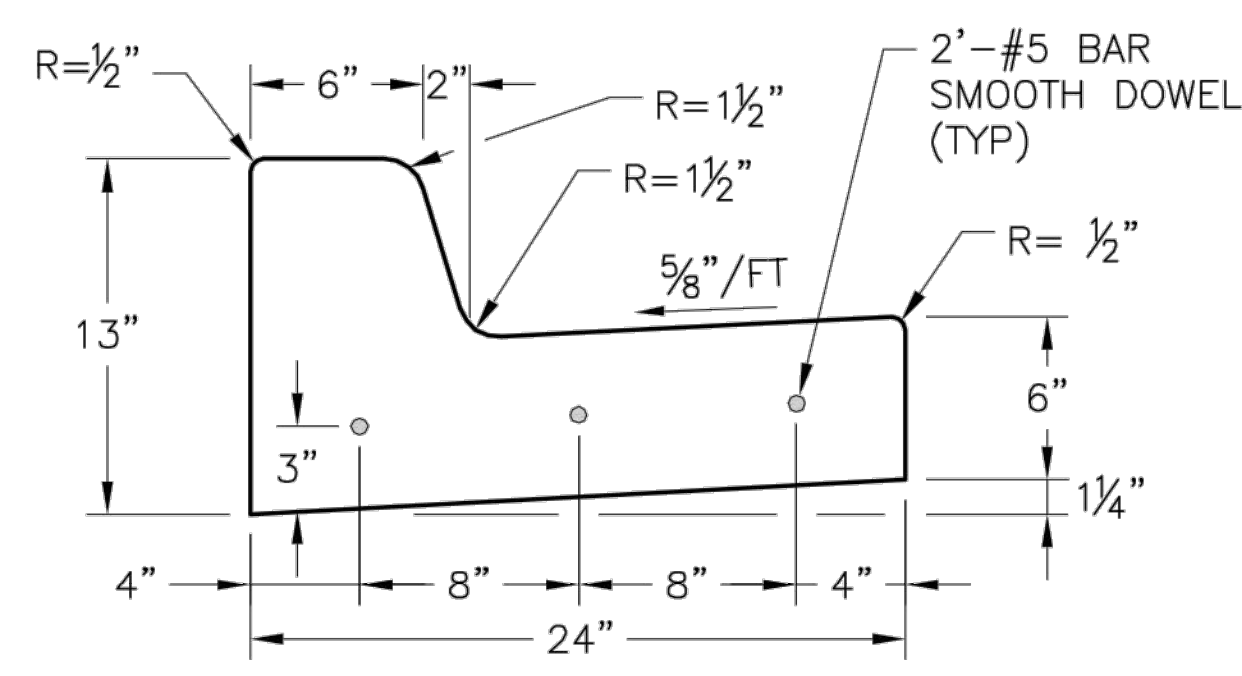
STRAIGHT CURB
(TYPE C-1)



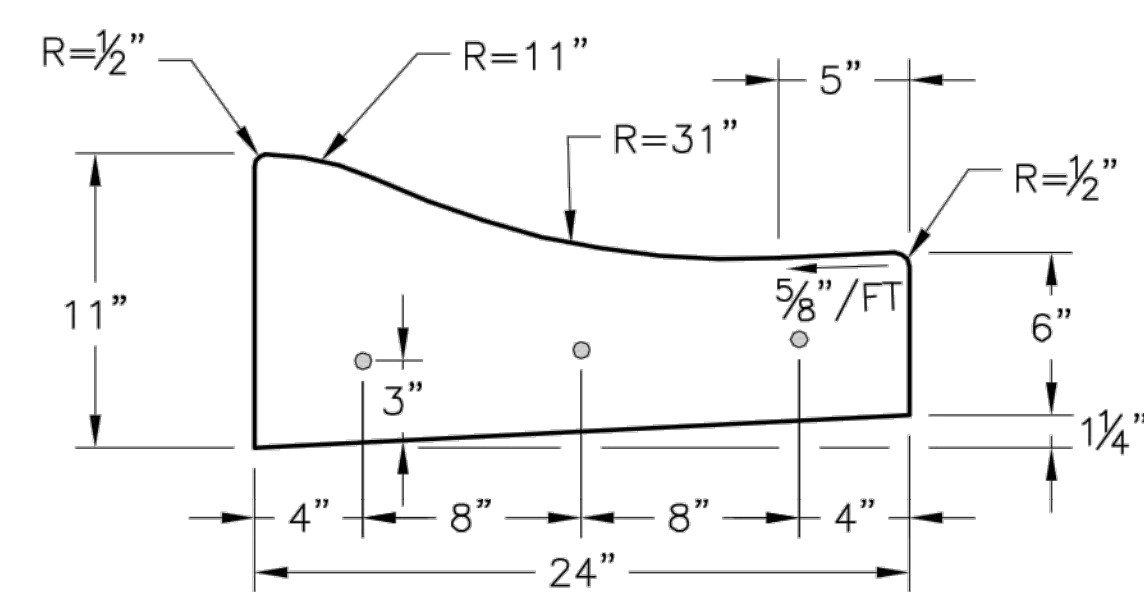
DOWELLED CURB
(TYPE DC)



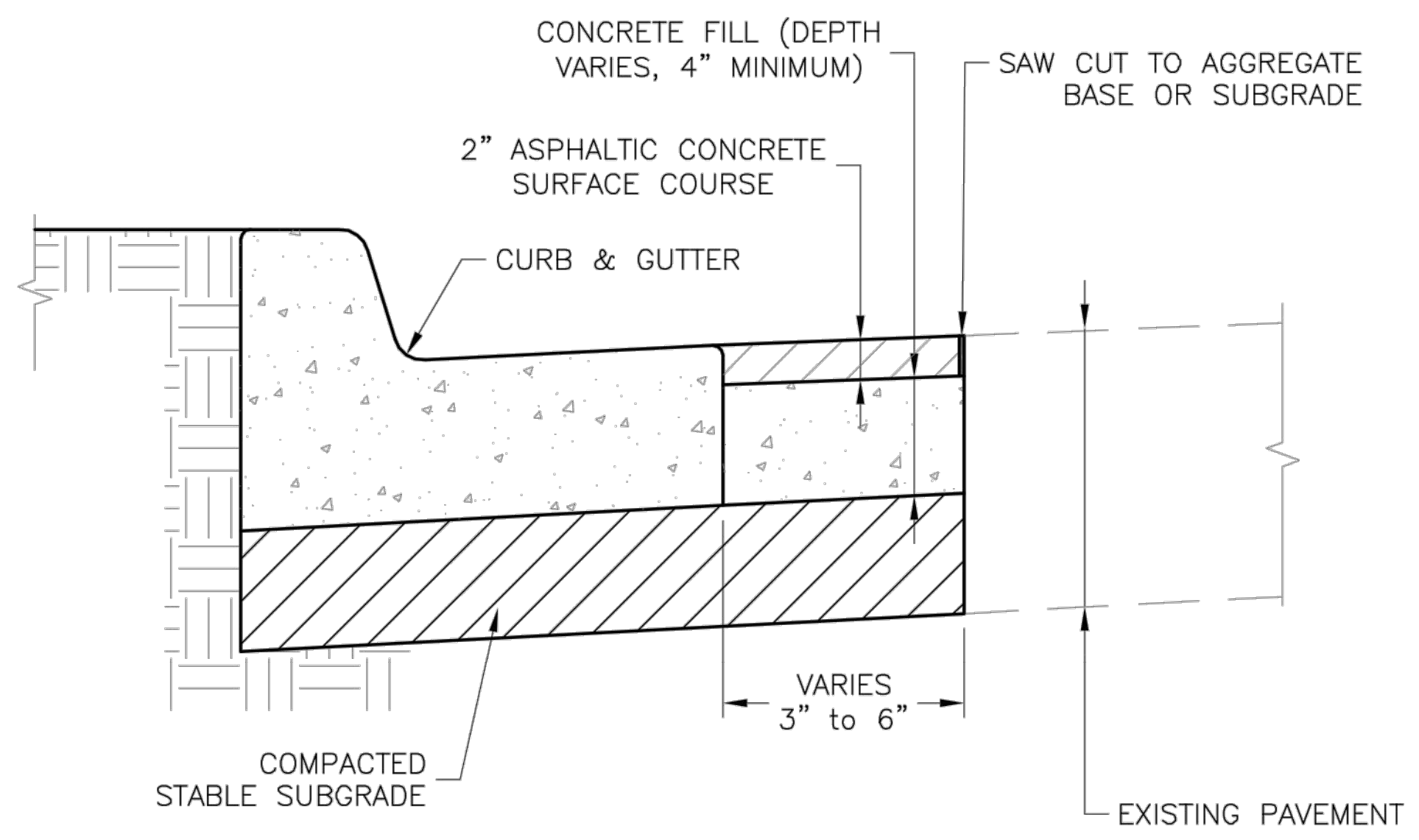
CURB & GUTTER DETAIL AT RAMP
(ADA SLOPE REQUIREMENTS)



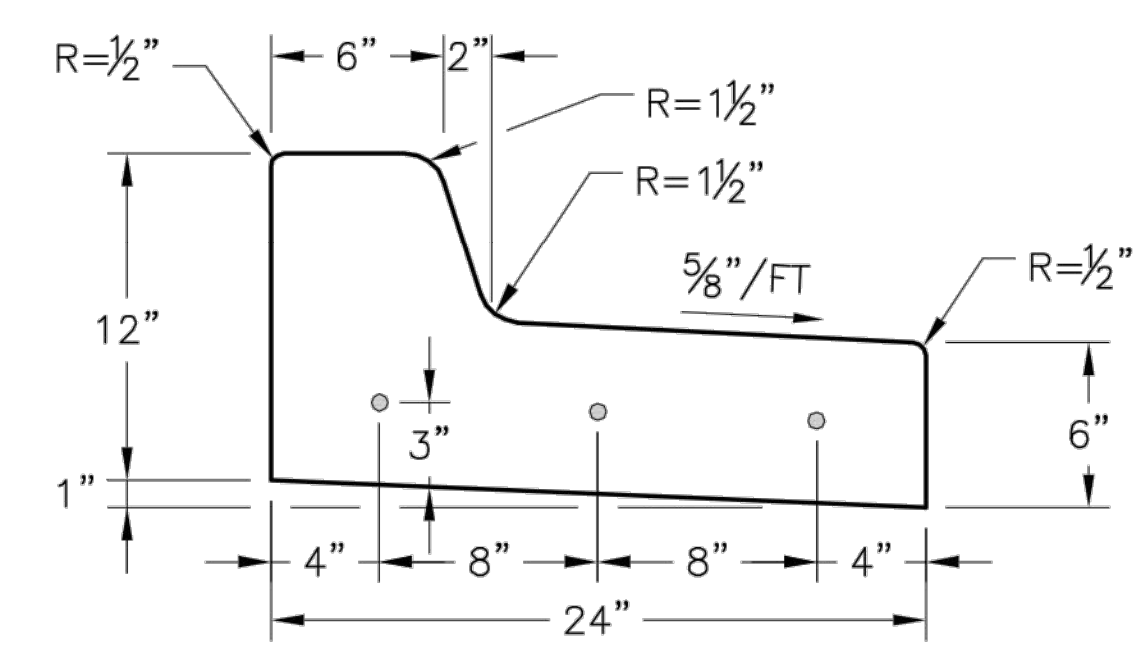
STRAIGHT BACK CURB & GUTTER
(TYPE CG-1)



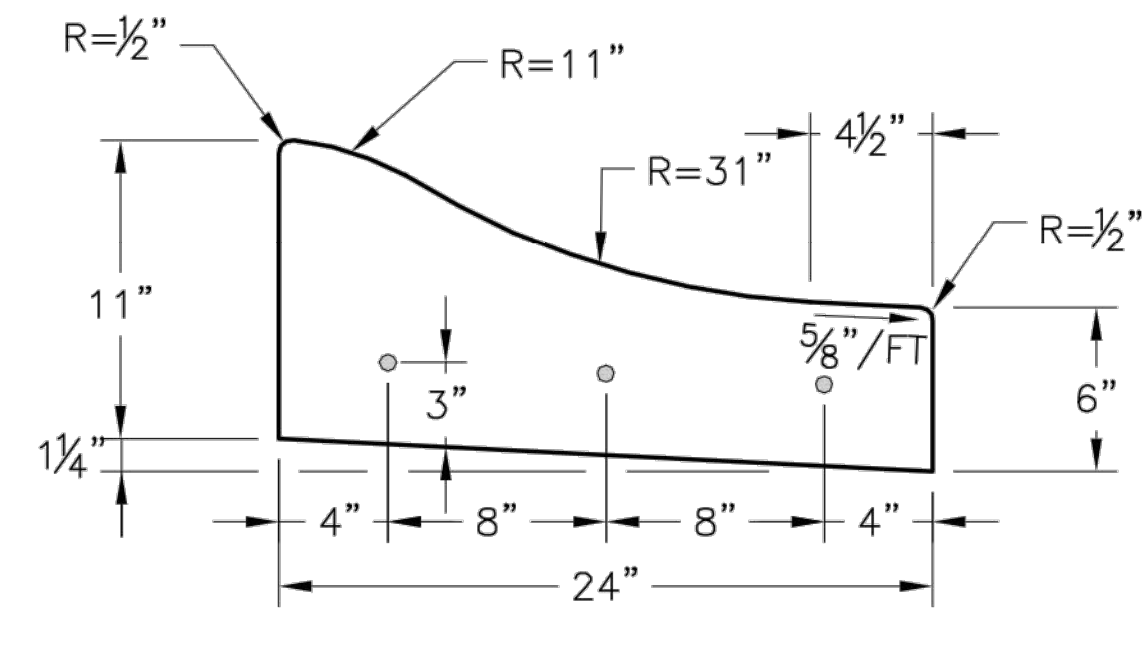
ROLL BACK CURB & GUTTER
(TYPE CG-2)



CURB REPLACEMENT DETAIL



STRAIGHT BACK DRY CURB & GUTTER
(TYPE CG-1 DRY)



ROLL BACK DRY CURB & GUTTER
(TYPE CG-2 DRY)

GENERAL NOTES

- 3/4" ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
- 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
- CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
- KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
- ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
- CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
- WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO
 CURB & GUTTER DETAIL

Drawn By: MJF
 Checked By: DL
 Date: 04/17
 Proj. #:

GEN-4

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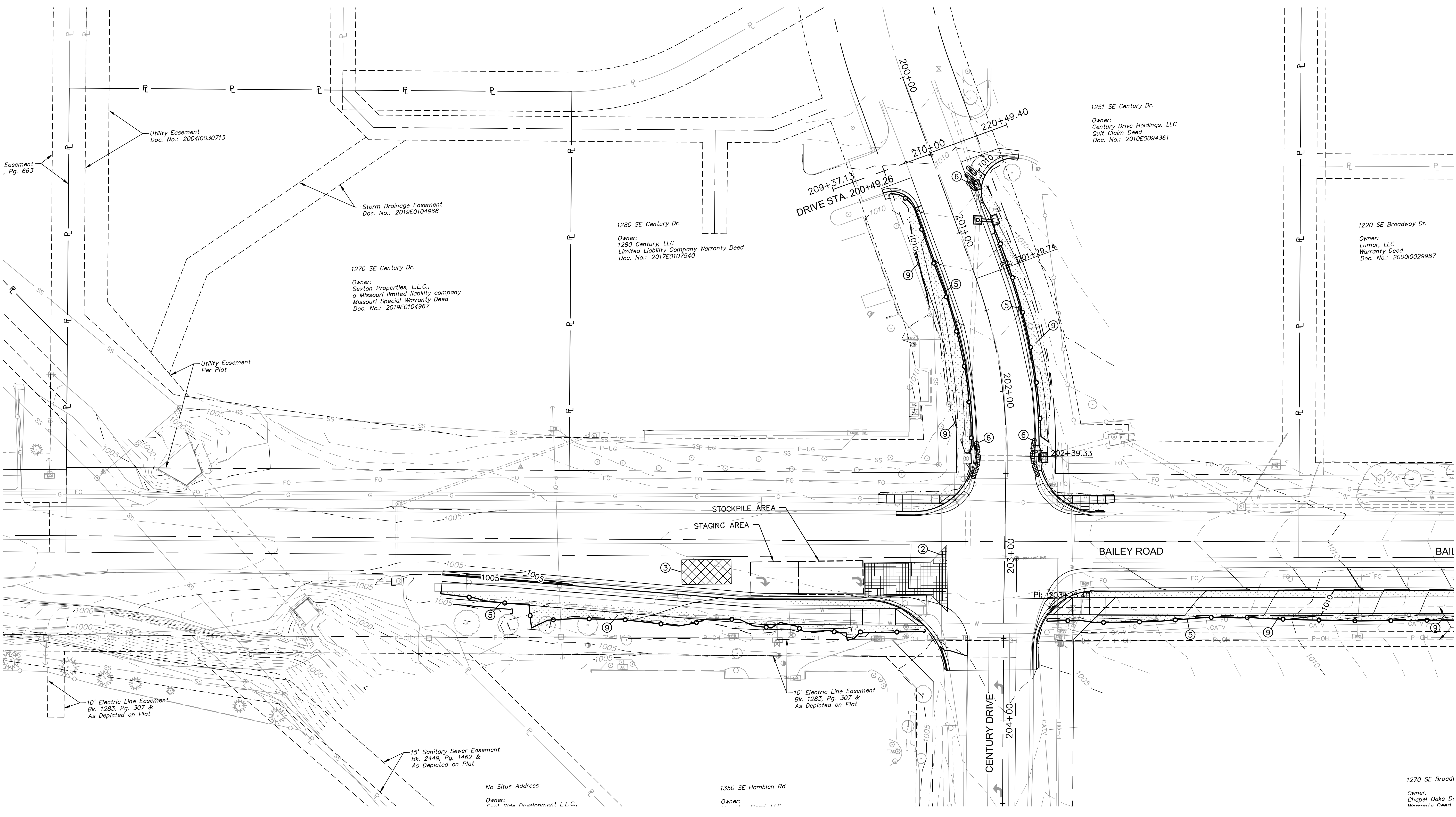
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REV. NO.	DATE	REVISIONS DESCRIPTION	BY

STANDARD DETAILS
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.O.A. NO.:	001592
DRAWN BY:	MLW
CHECKED BY:	RPH
APPROVED BY:	RBE
QA/QC BY:	RBE
PROJECT NO.:	020-0103
DWG NO.:	T_DTL01_0200103
DATE:	2022-11-04

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RECORD DRAWINGS

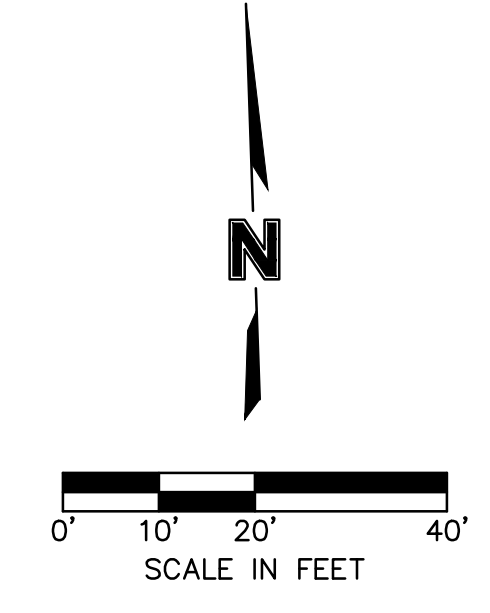
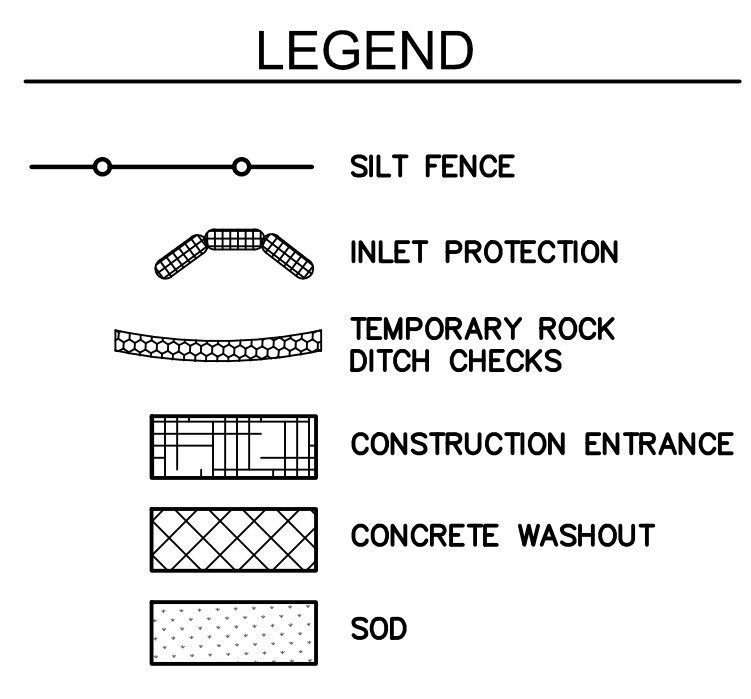
REV. NO.	DATE	REVISIONS DESCRIPTION	BY

2021

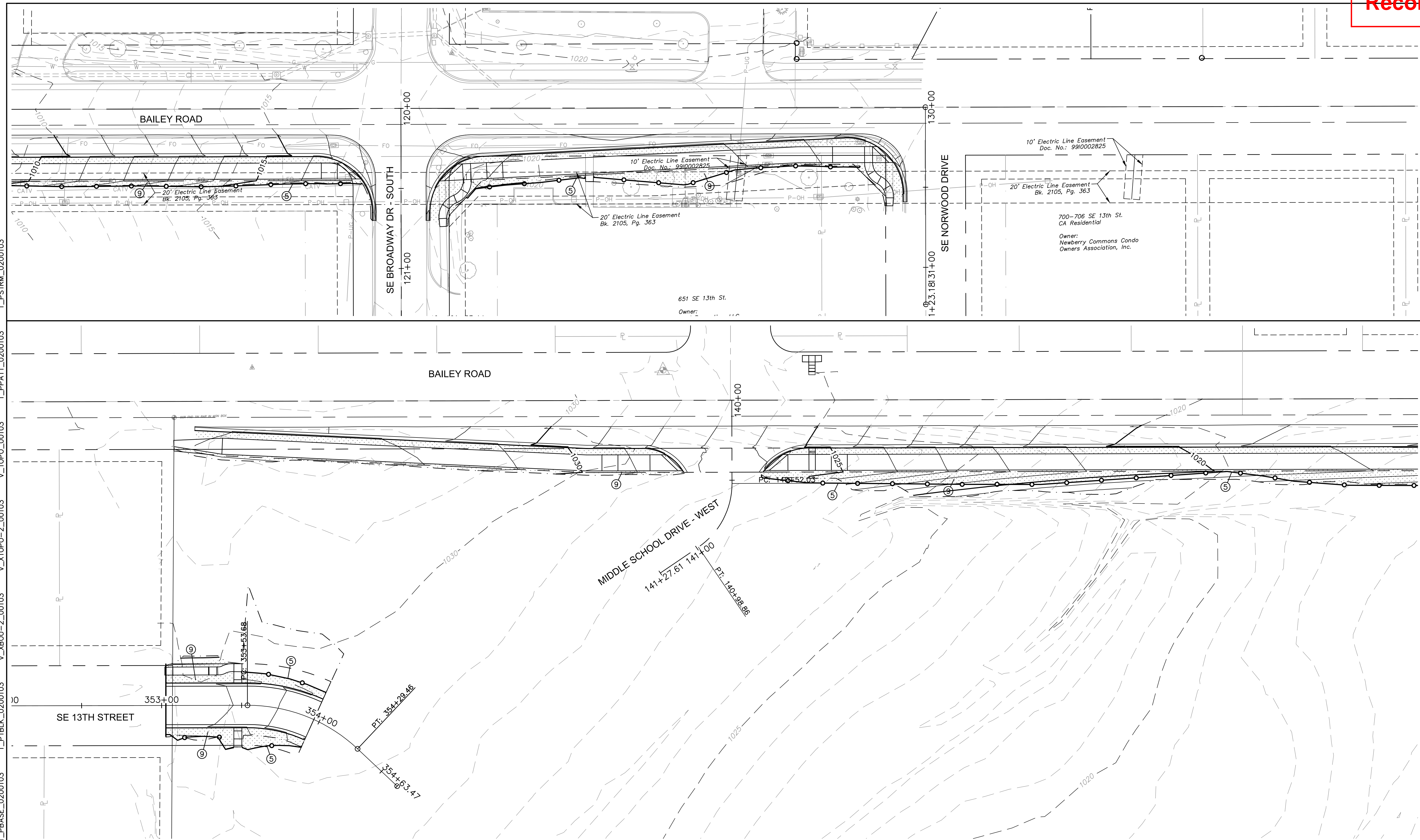
EROSION CONTROL PLAN
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_ERC01_0200103
 DATE: 2022-11-04

PROJECT STAGE	EROSION CONTROL PLAN BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
I - STORM SEWER INSTALLATION PRIOR TO ROADWAY GRADING	1	STAGING AREA	III	
	2	TEMPORARY CONSTRUCTION ENTRANCE	III	
	3	CONCRETE WASHOUT	III	
	4	TEMP. ROCK DITCH CHECK AND/OR BIO LOGS	IV	INSTALL BEFORE STORM SEWER INSTALLATION
	5	SILT FENCE/OR BIODEGRADABLE LOGS (9")	IV	
	6	CURB INLET PROTECTION	III	PER CURB INLET DETAIL
II - ROADWAY GRADING & SWALE GRADING	7	TEMP. ROCK DITCH CHECK AND/OR BIO LOGS	IV	PER DETAIL SHEET XX
III - PAVING	8	CURB INLET/AREA INLET PROTECTION	IV	GRAVEL FILTER BAGS
IV - STABILIZE SITE	9	SOD	N/A	

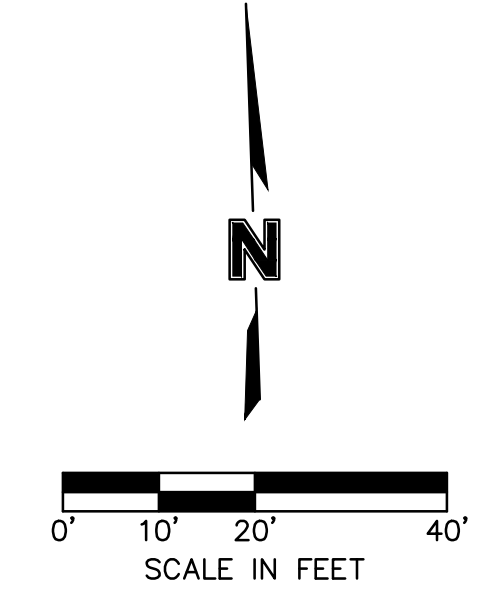
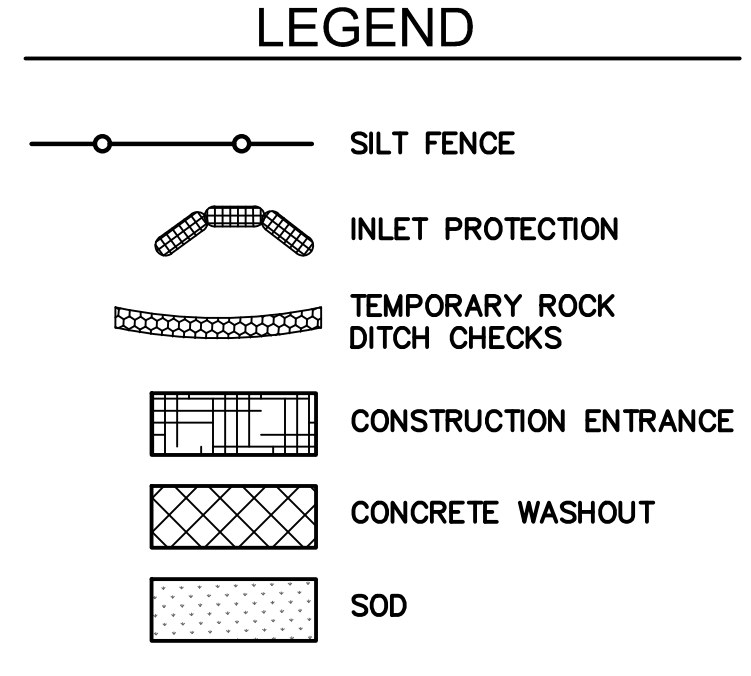


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 USER: mrcobertson



EROSION AND SEDIMENT CONTROL STAGING CHART

PROJECT STAGE	EROSION CONTROL PLAN BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
I - STORM SEWER INSTALLATION PRIOR TO ROADWAY GRADING	1	STAGING AREA	III	
	2	TEMPORARY CONSTRUCTION ENTRANCE	III	
	3	CONCRETE WASHOUT	III	
	4	TEMP. ROCK DITCH CHECK AND/OR BIO LOGS	IV	INSTALL BEFORE STORM SEWER INSTALLATION
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II - ROADWAY GRADING & SWALE GRADING	7	TEMP. ROCK DITCH CHECK AND/OR BIO LOGS	IV	PER DETAIL SHEET XX
	8	CURB INLET/AREA INLET PROTECTION	IV	GRAVEL FILTER BAGS
III - PAVING	9	SOD	N/A	



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EROSION CONTROL PLAN

LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592

DRAWN BY: MLW

CHECKED BY: RPH

APPROVED BY: RBE

QA/QC BY: RBE

PROJECT NO.: 020-0103

DWG NO.: T_ERC01_0200103

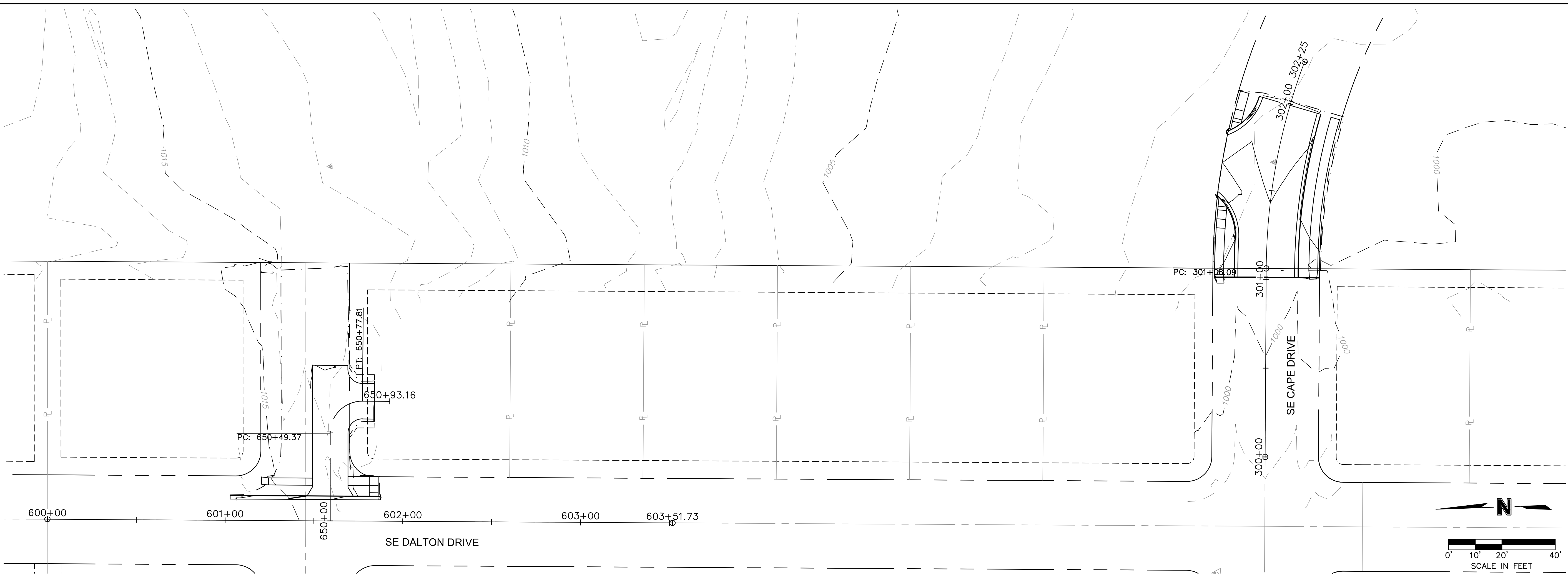
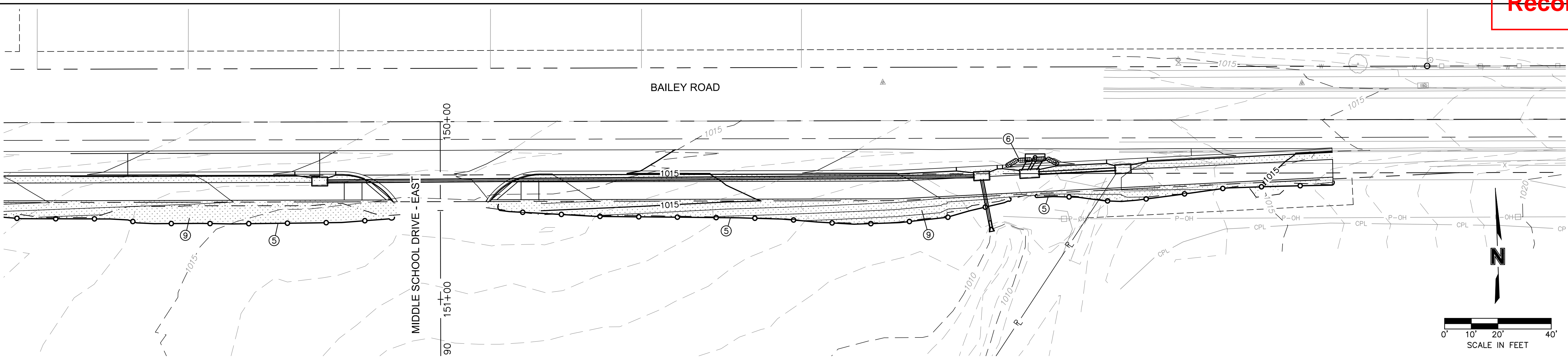
DATE: 2022-11-04

2021

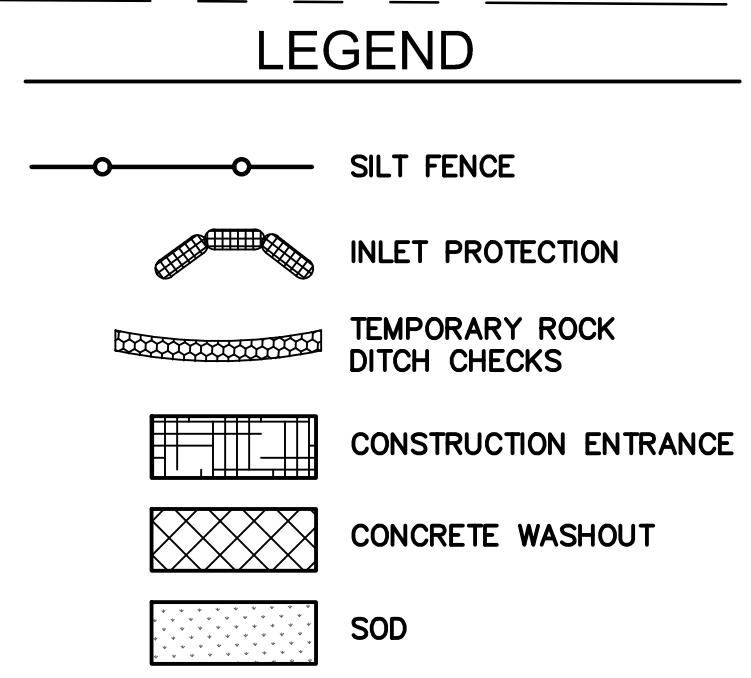
SHEET

54 OF 101

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EROSION AND SEDIMENT CONTROL STAGING CHART				
PROJECT STAGE	EROSION CONTROL PLAN BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
I - STORM SEWER INSTALLATION PRIOR TO ROADWAY GRADING	1	STAGING AREA	III	
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IV - STABILIZE SITE	9	SOD	N/A	



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EROSION CONTROL PLAN

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

2021

LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_ERC01_0200103
 DATE: 2022-11-04

SHEET 55 OF 101

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

REVISIONS

2021

EROSION CONTROL DETAILS

LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

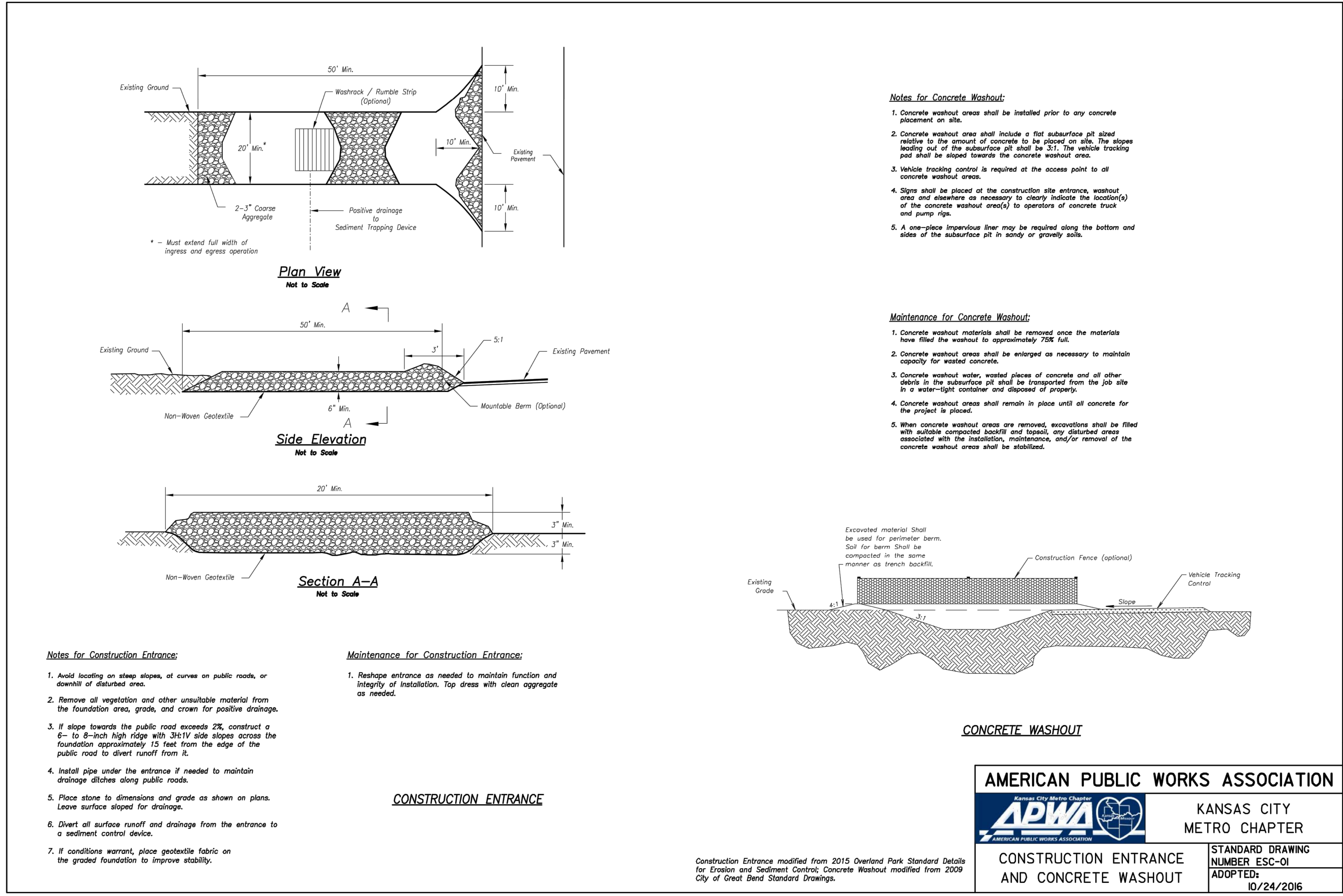
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CHECKED BY:	RPH
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DWG NO.:	T_ERCDTL01_0203004
DATE:	2022-11-04

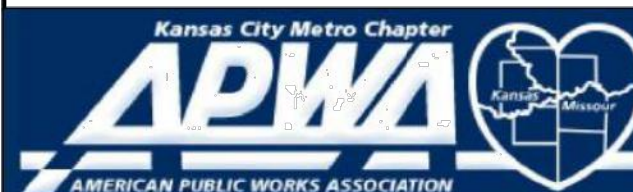
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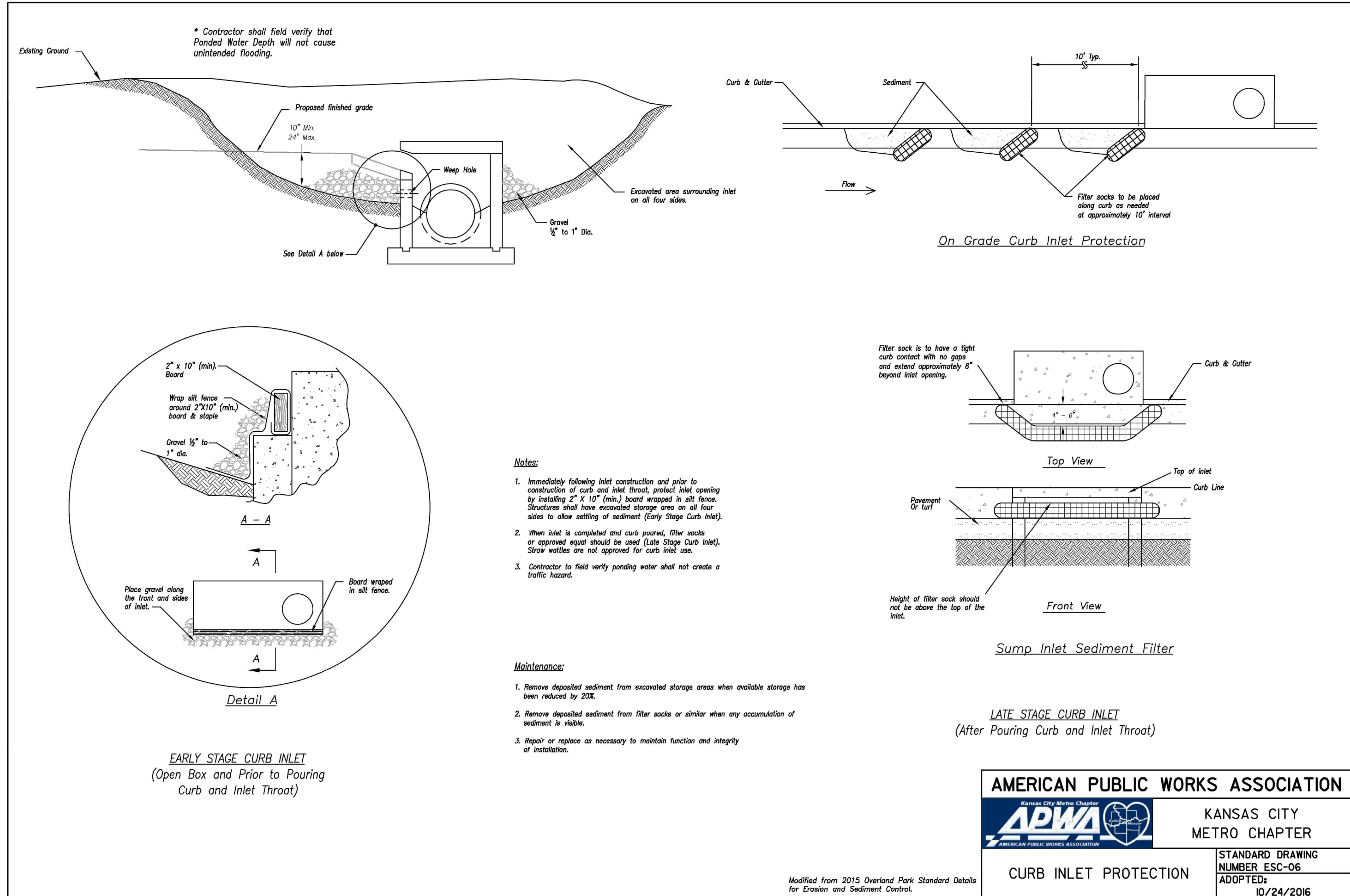


AMERICAN PUBLIC WORKS ASSOCIATION	
 Kansas City Metro Chapter AMERICAN PUBLIC WORKS ASSOCIATION	KANSAS CITY METRO CHAPTER
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT	STANDARD DRAWING NUMBER ESC-01 ADOPTED: 10/24/2016

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control; Concrete Washout modified from 2009 City of Great Bend Standard Drawings.

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 Kansas City Metro Chapter

KANSAS CITY METRO CHAPTER

CURB INLET PROTECTION

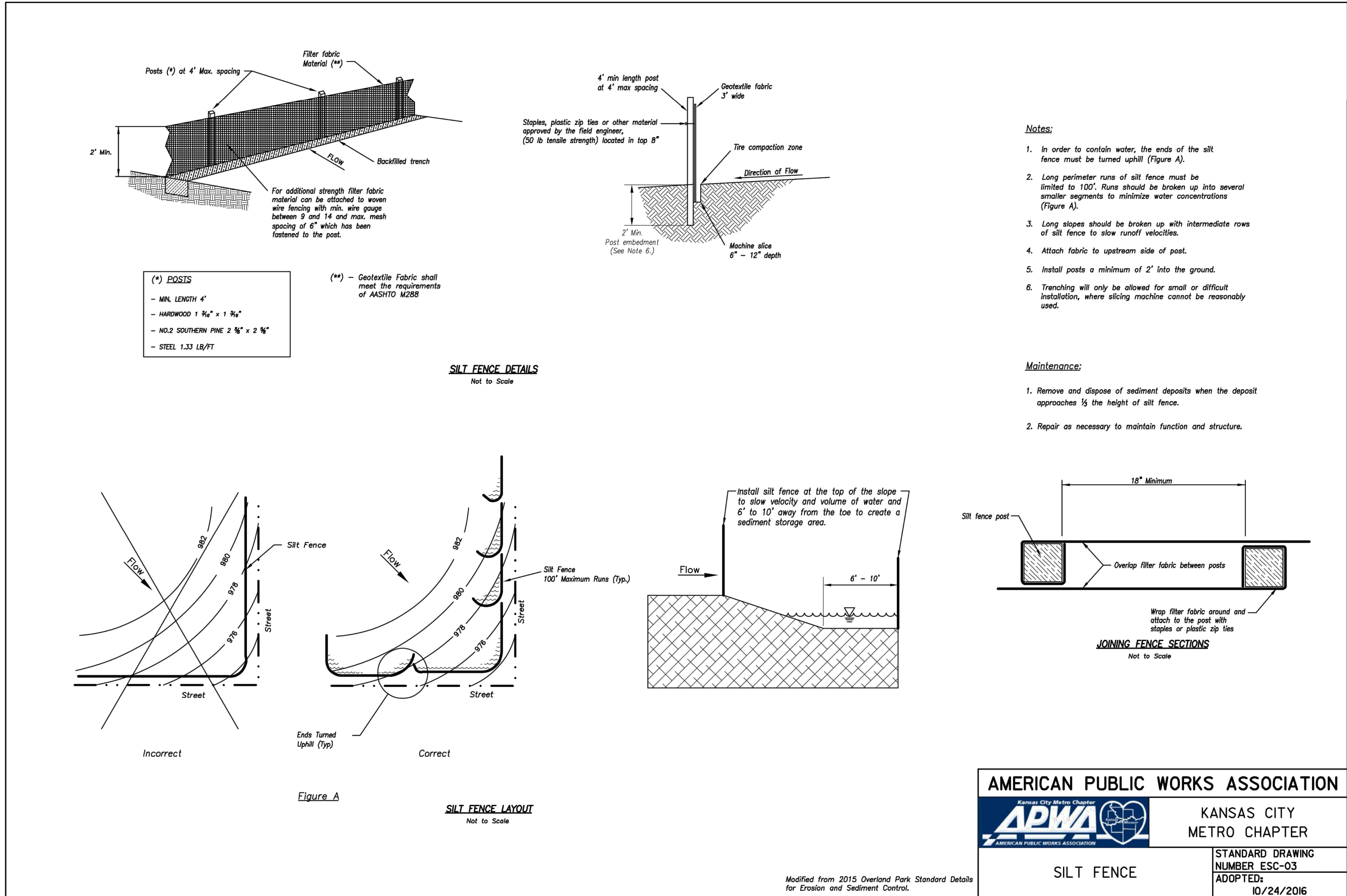
STANDARD DRAWING NUMBER ESC-06
 ADOPTED: 10/24/2016

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EROSION CONTROL DETAILS		2021	
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS		LEE'S SUMMIT, MISSOURI	

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: ERCDTL01_0203004
 DATE: 2022-11-04

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REV. NO.	DATE	REVISIONS DESCRIPTION	BY

EROSION CONTROL DETAILS

LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2021

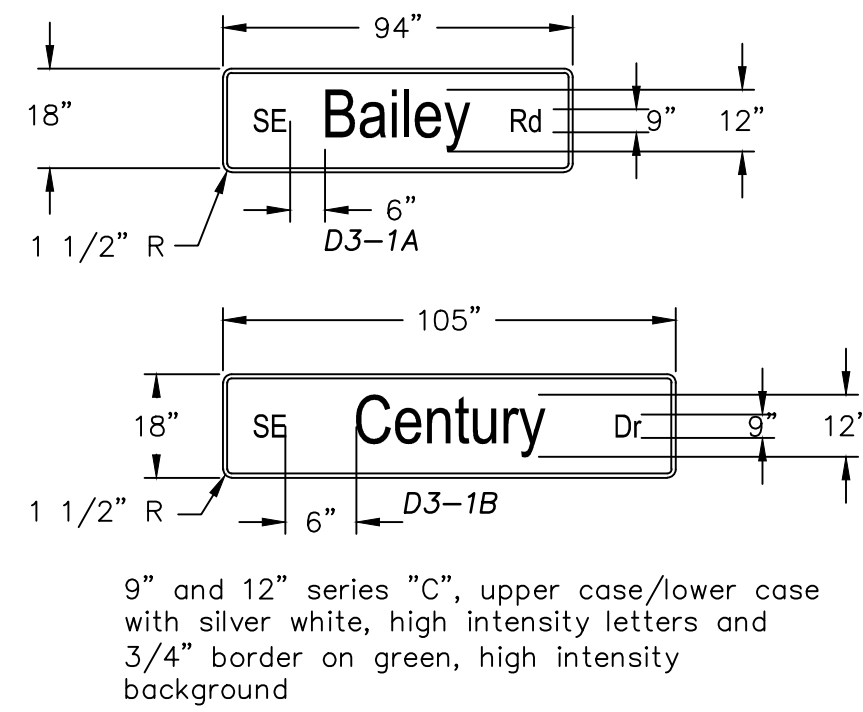
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 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
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 DWG NO.: T_ERCDTL01_0203004
 DATE: 2022-11-04

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 F_PBASE_0200103 T_PBASE_0200103 F_PBASE_0200103

GENERAL NOTES:

- The contractor shall have one (1) signed copy of the plans (approved by the City of Lee's Summit) and one (1) copy of the appropriate Design and Construction Standards and Specification at the job site at all times.
- Construction of the improvements shown or implied by this set of drawings shall not be initiated or any part thereof undertaken until the Director of Public works or his agent is notified of such intent, and all required and properly executed bonds and contract agreements are received and approved by the City.
- The Construction covered by these plans shall conform to all applicable standards and specifications of the Public Works Department of the City of Lee's Summit, Missouri, in current use. Specifically, but not exclusive to: Traffic Signal Specification: Section 2900. Traffic Signal Standard Drawings: TS-1 through TS-10.
- All workmanship and materials shall be subject to the inspection and approval of the Public Works Department of the City of Lee's Summit, Missouri.
- Right-Of-Way limits should be cross checked by the Contractor and approved by the field inspector before undertaking any excavations at the site.
- The contractor shall stake the location of all pole bases, pull boxes, and controller cabinet base, then provide the City one week notice prior to the start of construction, and subsequent construction activities, for inspection and approval. The contractor shall provide a work schedule, contact names, and phone numbers.
- All locations indicated in drawings, including conduit runs are subject to adjustment to clear obstructions and to meet site conditions, if any, by the City.
- Existence and location of any underground or overhead facilities shown on these drawings or reference to any soil conditions, if made, are approximate only. It is the Contractor's responsibility to verify all site conditions and to locate all utilities, including depth, before starting construction so that any adjustments to design can be made prior to pole ordering or fabrication. In addition, the Contractor shall avoid disruption of services provided by the utilities and shall insure that proper clearances (overhead and underground) are maintained for the duration of construction. The Contractor shall be fully responsible for any and all damages caused by failure to exactly locate and preserve all utilities.
- The contractor shall coordinate with the City Traffic Engineer for any necessary changes to the traffic signals resulting from existing utilities or other construction issues.
- Any equipment damaged during construction shall be replaced at the Contractor's expense.
- Signal equipment shall not form an obstruction to the movement of pedestrian and wheelchair traffic and shall be ADA accessible. Where sidewalks are present, a minimum clear width of 48 inches shall be available for pedestrian and wheelchair movement. Pull boxes shall not be installed on wheelchair ramps.
- Conduits to be placed outside of paved areas shall be trenched in place. If the project includes roadway improvements, the conduit shall be trenched after the roadway rough grade is established and prior to any final roadway paving, curb & gutter, median or sidewalk sections are placed. All compaction and backfill shall meet City of Lee's Summit requirements. At the option of the contractor, conduits may be bored outside paved areas, but there will be no adjustment to the unit prices for conduit installation and any change in cost would be the contractor's responsibility. Any conduit bore outside paved areas shall be done after roadway improvements are complete. Conduits to be placed within the limits of pavement shall be bored unless otherwise authorized by the City Traffic Engineer. If the project includes roadway improvements, the conduit shall be bored prior to any final roadway paving. Potholing for utilities on road bores after final paving will not be allowed.
- The traffic signal controller, cabinet and related equipment, as specified for this project, shall be delivered to the City for testing prior to installation. All signal timings will be provided by the City Traffic Engineer. The Contractor shall coordinate material delivery and pick-up with the Public Works Operations Department (969-1870) at least 48 hours prior to transportation. A minimum of 2 weeks shall be permitted for testing between delivery and pick-up. The Contractor assumes all damage liability and should inspect all materials before and after transportation of equipment.
- The Contractor shall coordinate all electrical power requirements and connection activities with the Utility Company, including location of the meter, circuitry and connection requirements, and powering up the complete system. The Contractor shall order the meter and pay electrical bills until Final Acceptance, at which time the Contractor shall coordinate with the City for transferring the electrical billing services to the City.
- All disturbed surfaces shall be made good to match existing at the Contractor expense.
- Contractor shall maintain at all times access for Emergency Vehicles and residents along the entire project.
- Substantial completion of the traffic signals shall be defined as all components of the traffic signal operated fully and satisfactorily with red, yellow, and green cycles. Substantial completion shall allow for testing of the signals, including a flash period, prior to signals operating with cycles. Substantial completion shall also include the completion of all interconnect, sidewalk, curb ramp and removal work.
- Final acceptance of traffic signals shall be defined as final written approval and acceptance by the City, including completion or correction of all punch list items and the traffic signals fully operational for a time period of fifteen (15) days, without any problem, as noted in the specifications. As-built plans shall be submitted prior to final acceptance by the City.

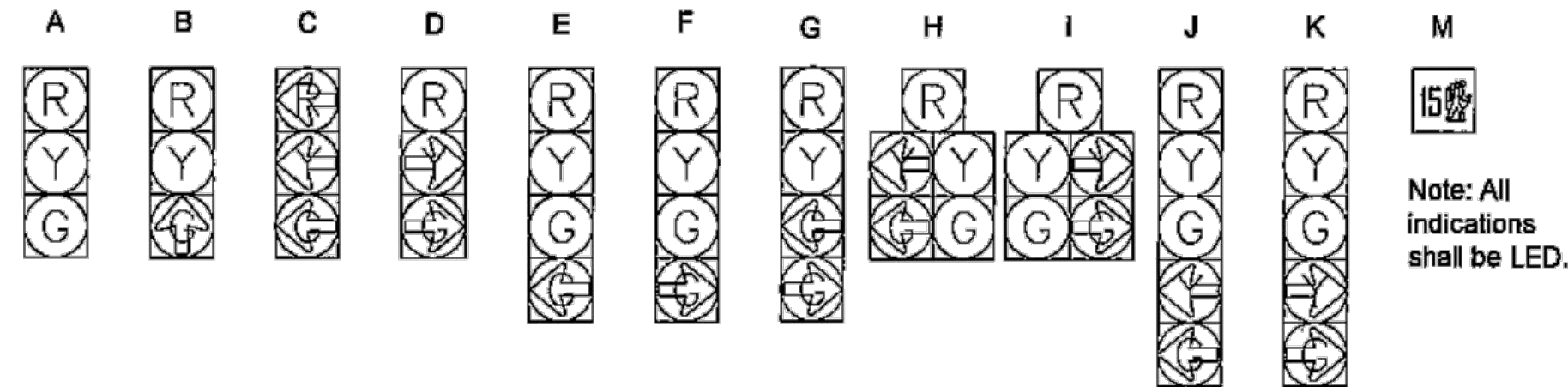
STREET NAME SIGN DETAIL



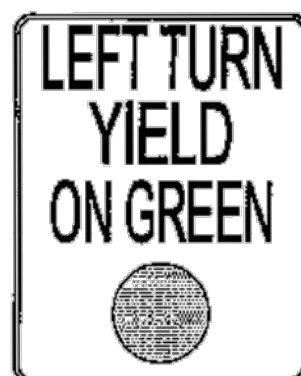
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LEGEND

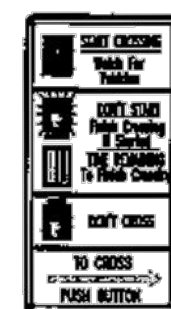
- Optically Limiting Traffic Signal Head
- Traffic Signal Head
- Traffic Signal Head With Backplate
- Pedestrian Signal Head
- Stop Line
- Lane Use
- Mast Arm Pole
- Signal Pedestal
- Traffic Controller Cabinet
- Pull Box
- Span Wire Signal Head
- Power Supply (Disconnect)
- Suggested Vehicle Detection Zone
- Induction Loop Detector
- Push Button Detector
- Opticom Detector
- Magnatometer Detector
- Power Supply (Source)
- Signal Face Number
- Post Number
- Detector Number
- Pull Box Number
- Push Button Number
- Cobra Head Luminaire
- Vehicular Detection Camera



TYPICAL REGULATORY SIGN DETAIL



SIGN R10-12
24" X 30"



SIGN R10-3E
9" X 15"

Note: Sign R10-3E shall be provided for each push button.

RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION

TRAFFIC SIGNAL PLAN GENERAL NOTES & LEGEND	2021
LEE'S SUMMIT MIDDLE SCHOOL #4 PUBLIC ROAD IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

C.O.A. NO.:	001592
DRAWN BY:	JRC
CHECKED BY:	JAB
APPROVED BY:	SLJ
QA/QC BY:	THE
PROJECT NO.:	020-0103
DWG NO.:	F 115 0200103
DATE:	11/4/2022

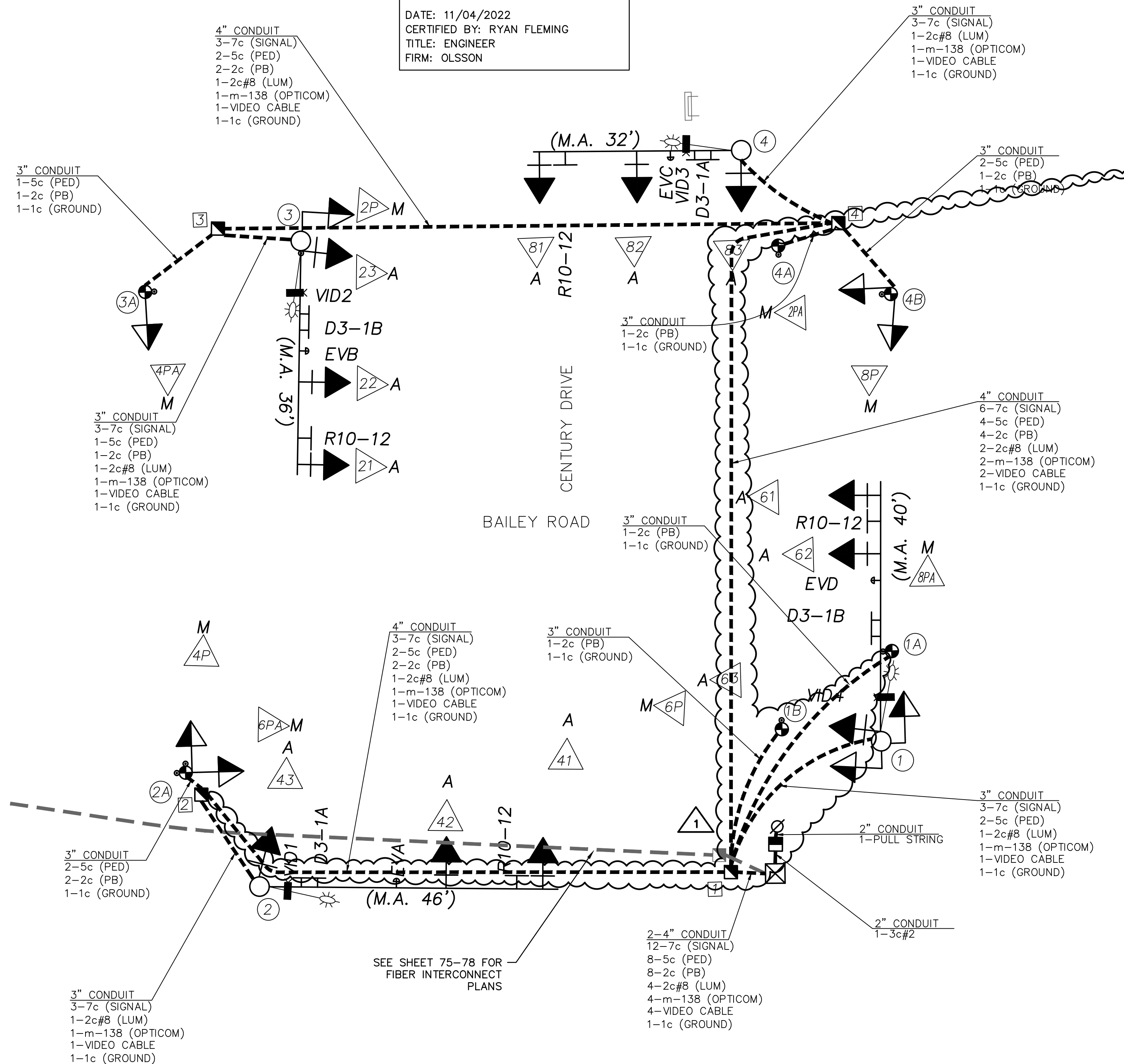
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 Overland Park, KS 66213-4760 FAX: 913.381.1174
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WIRING DIAGRAM

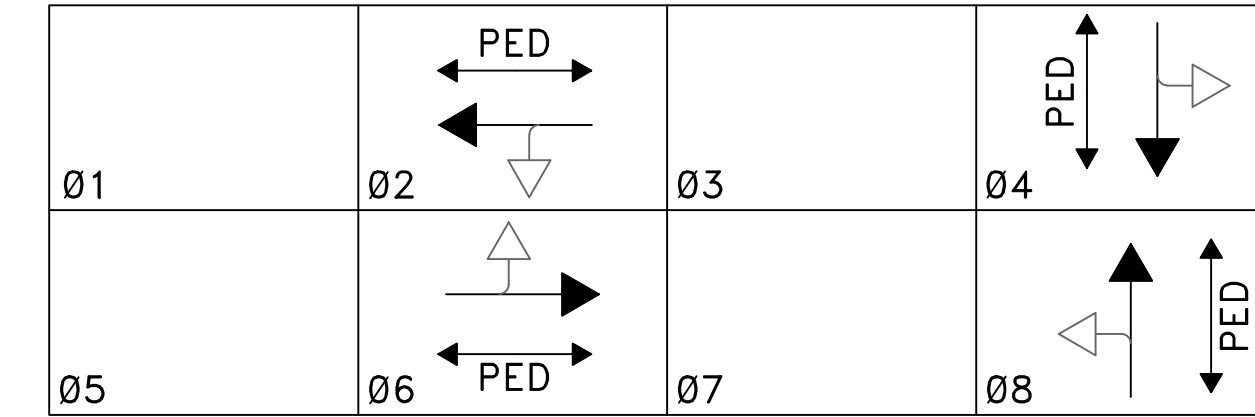
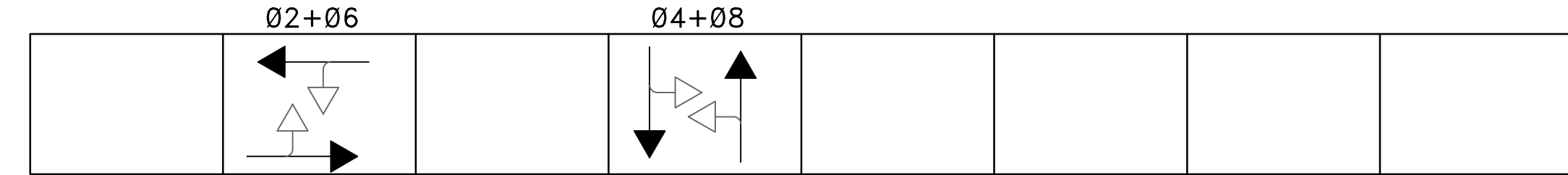
RECORD DRAWING

THE INFORMATION PROVIDED ON THIS DRAWING CONFORMS TO CONSTRUCTION RECORDS AND IT IS SOLELY BASED ON INFORMATION PROVIDED BY OTHERS.

DATE: 11/04/2022
 CERTIFIED BY: RYAN FLEMING
 TITLE: ENGINEER
 FIRM: OLSSON



SEQUENCE



PHASE DIAGRAM

OUTPUT FILE ASSIGNMENTS

FR1	01	02	PED 02	03	04	PED 04	MONITOR
FR2							
FR3	05	06	PED 06	07	08	PED 08	
FR4							

1	2	3	4	5	6	7	8	9	10	11	12	13	14
											PED 02	PED 04	FLH
											PED 06	PED 08	STOP TIME

FLASHING	OPERATIONS
EMERGENCY	SCHEDULED
FY-No 0's	FY-No 0's
FR-All 0's	FR-All 0's

LOCATION	Power Supply Type	CIRCUIT BREAKER TRIP RATINGS		
		SERVICE DISCONNECT (2-POLE)	TRAFFIC SIGNAL (1-POLE)	LIGHTING (2-POLE)
SE CORNER	2-Circuit	40 AMP	40 AMP	15 AMP

Wiring and Phasing General Notes

- All signals heads shall each be served by one 7c#14 cable extending from the head back to the controller. No cable splices are allowed, including at the base of the pole and inside pull boxes. Most arm heads shall not be jumpered, so that additional 7c can be used for left-turn signal head if needed in the future.
- A continuous 1c#6 AWG bare solid copper ground wire shall be provided in addition to ground rods. All grounding and ground rods shall be tied together using 1c#6 AWG bare solid copper wire to bond the system.

olsson

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 7301 West 133rd Street, Suite 200 TEL: 913.381.1170
 Overland Park, KS 66213-4760 FAX: 913.381.1174 www.olsson.com

RECORD DRAWINGS

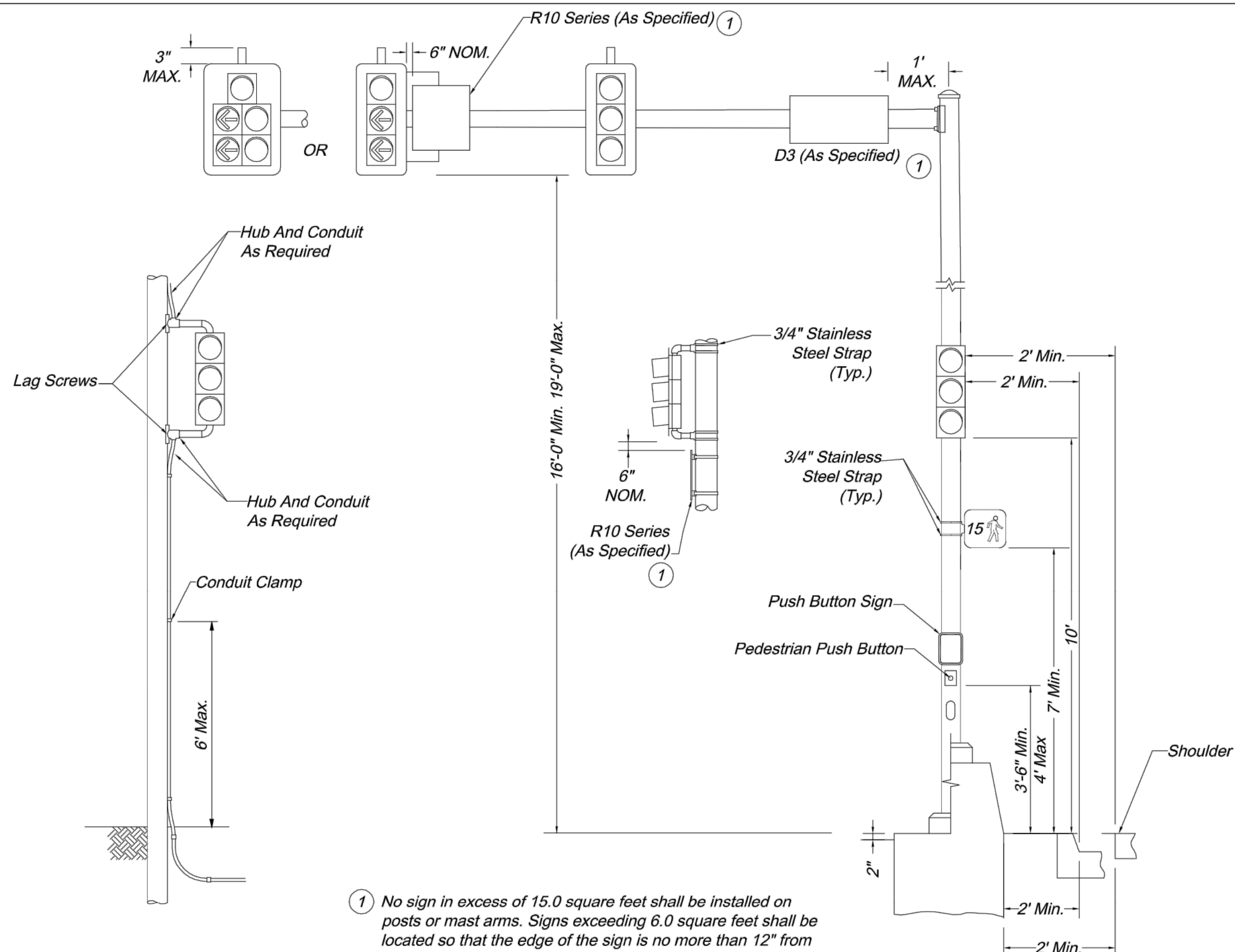
REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	11-4-2022	RECORD DRAWING REVISIONS	JRC

2021

WIRING DIAGRAM
 BAILEY ROAD & CENTURY DRIVE
 LEE'S SUMMIT MIDDLE SCHOOL #4
 PUBLIC ROAD IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.O.A. NO.:	001592
DRAWN BY:	JRC
CHECKED BY:	JAB
APPROVED BY:	SLJ
QA/QC BY:	THE
PROJECT NO.:	020-0103
DWG NO.:	F 75 020103
DATE:	11/4/2022

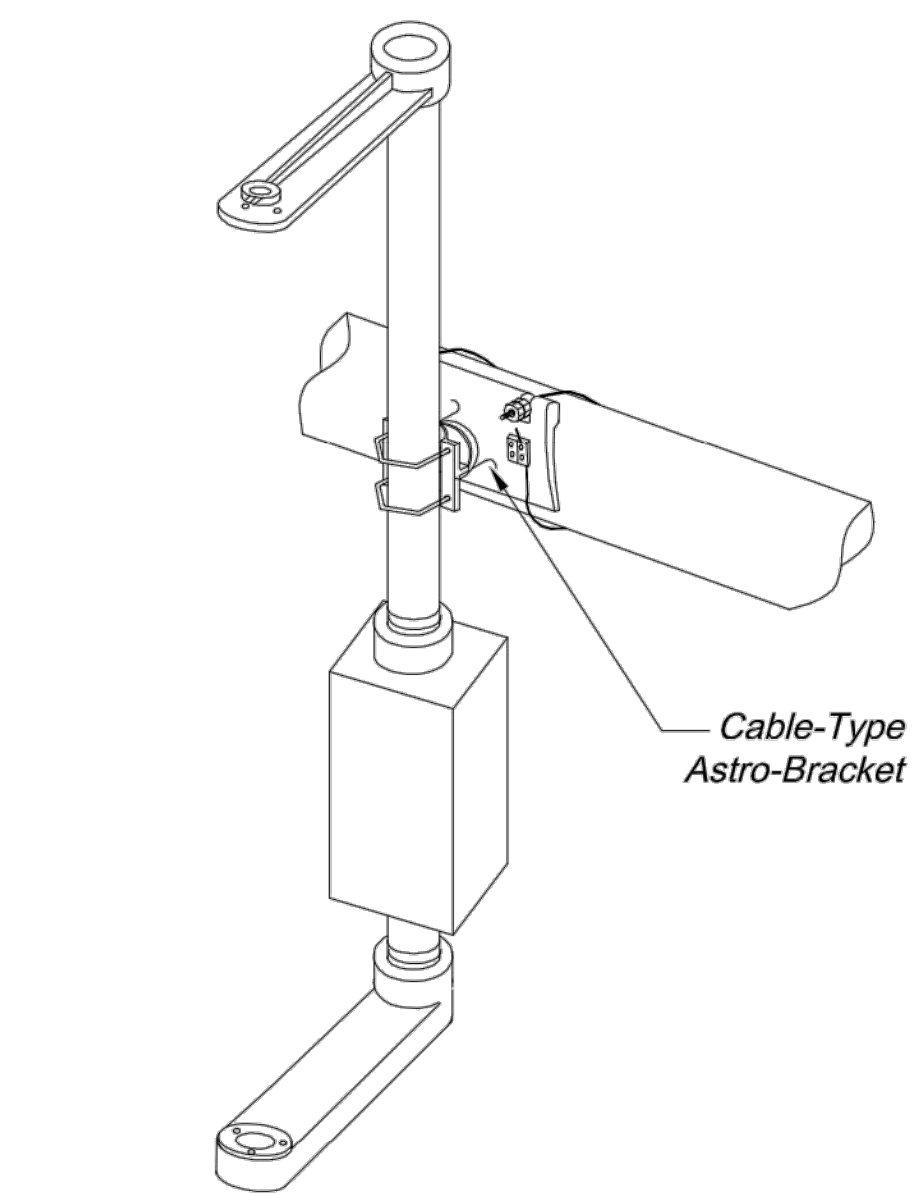
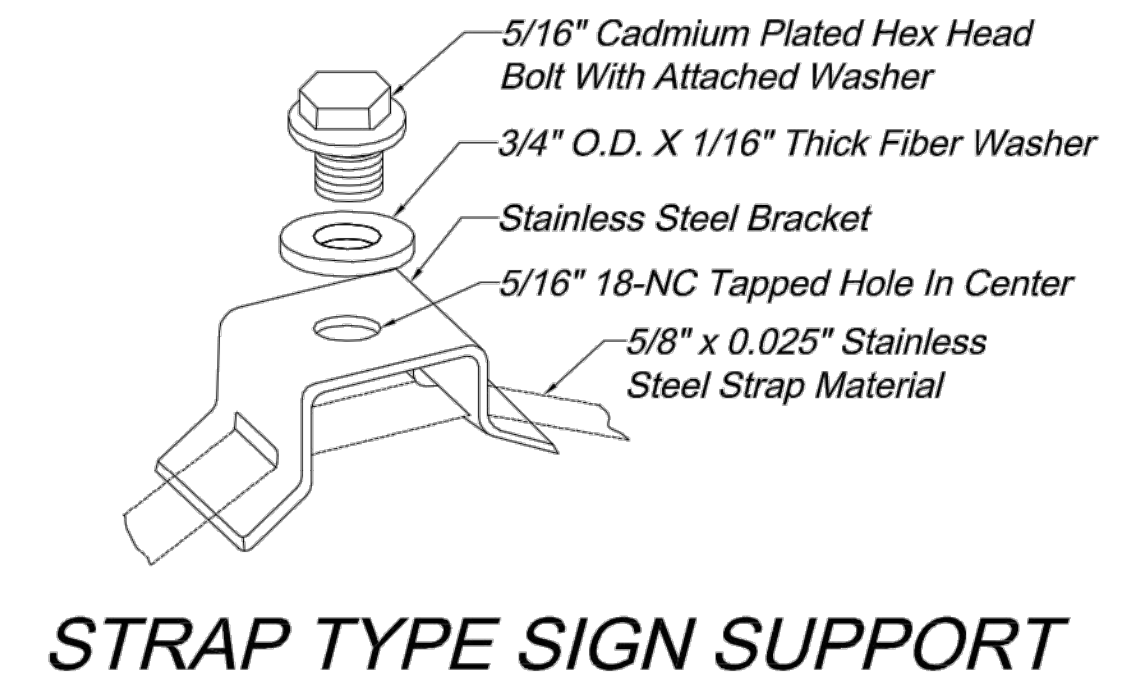
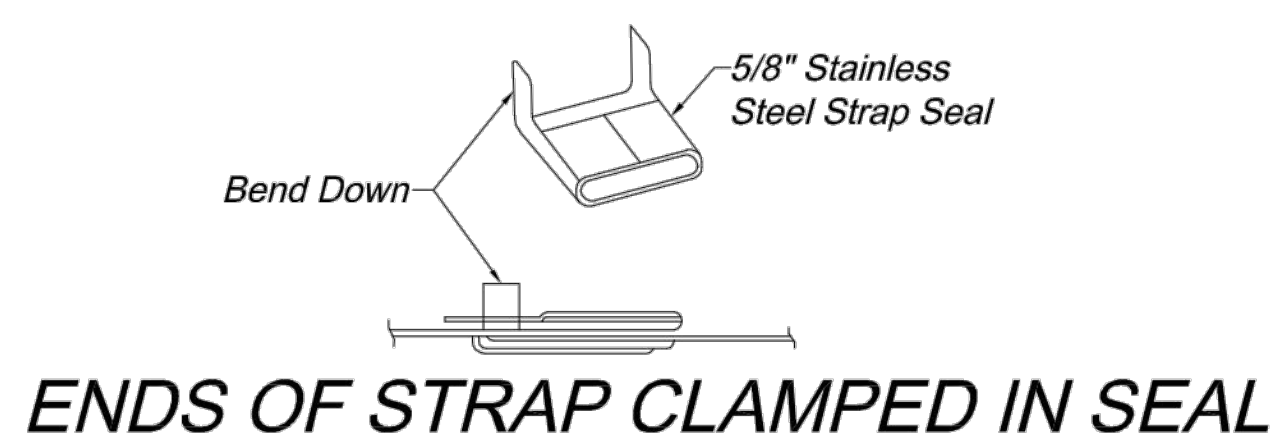
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 DATE: Nov 07, 2022 10:26am XREFS: V_XTOP0-2_00103 V_XBOU-2_00103 T_PSTRM_0200103 F_PBASE_0200103 T_PBLK_0200103 F_SAS-BASE_0200103



WOOD POLE MOUNTING

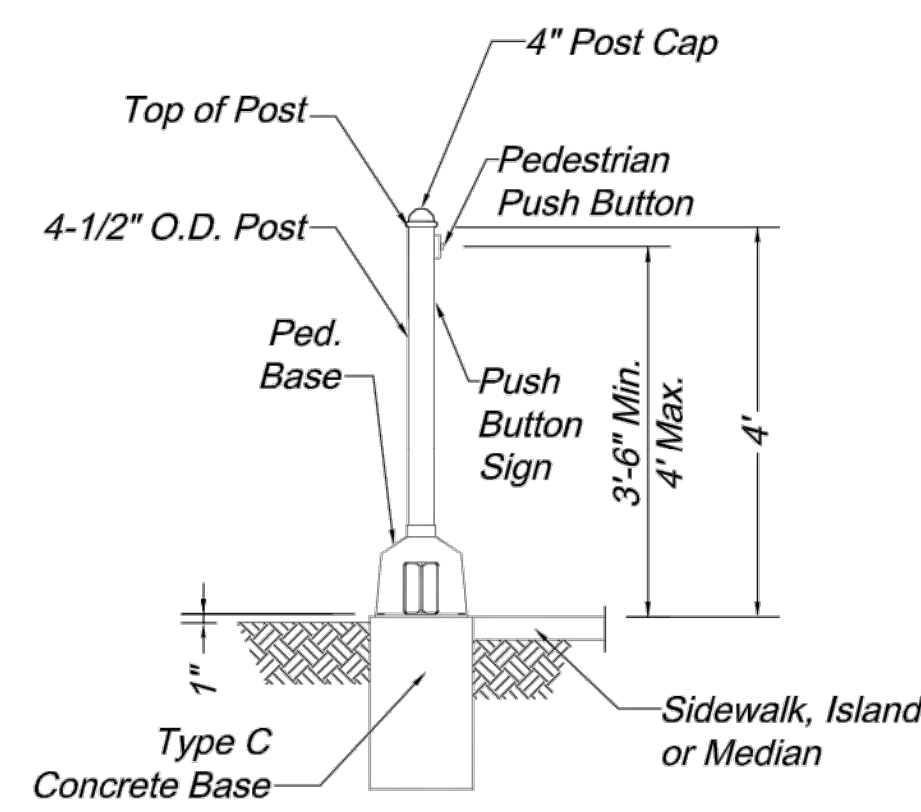
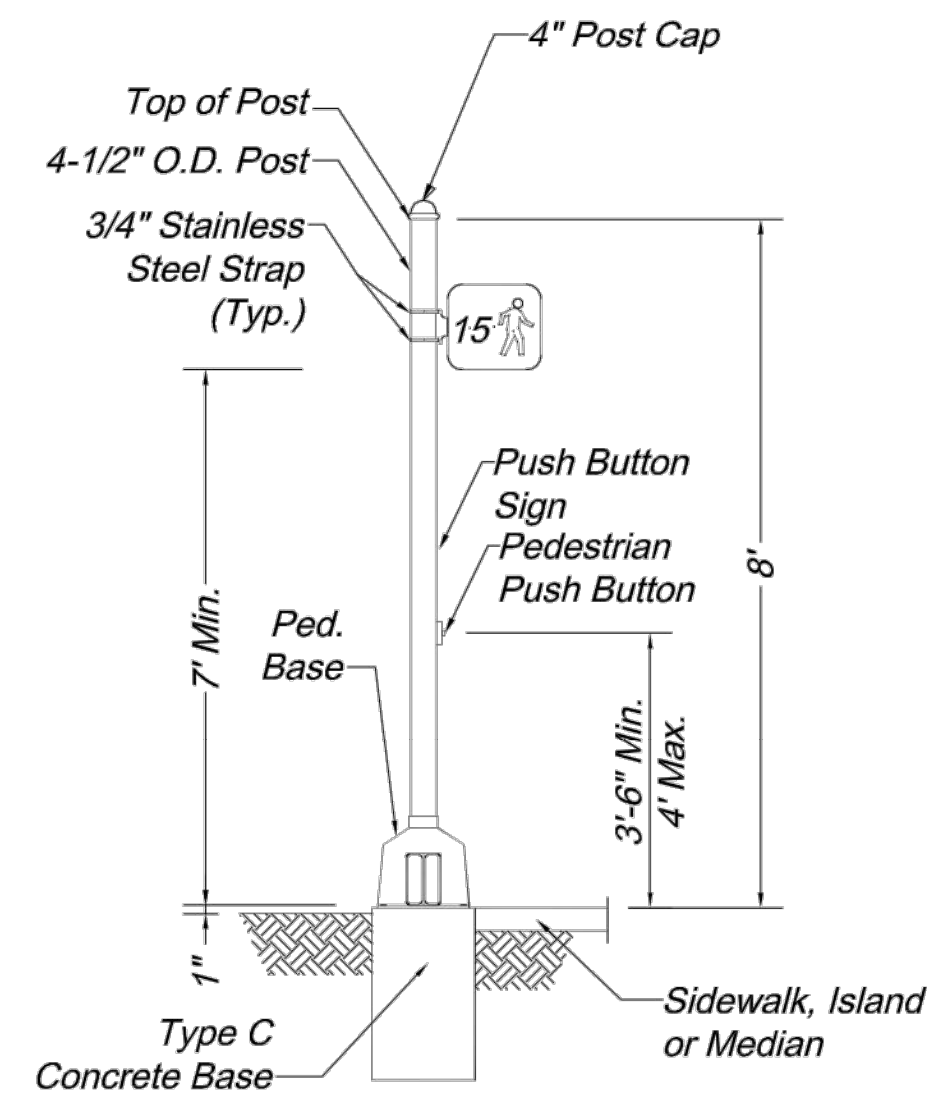
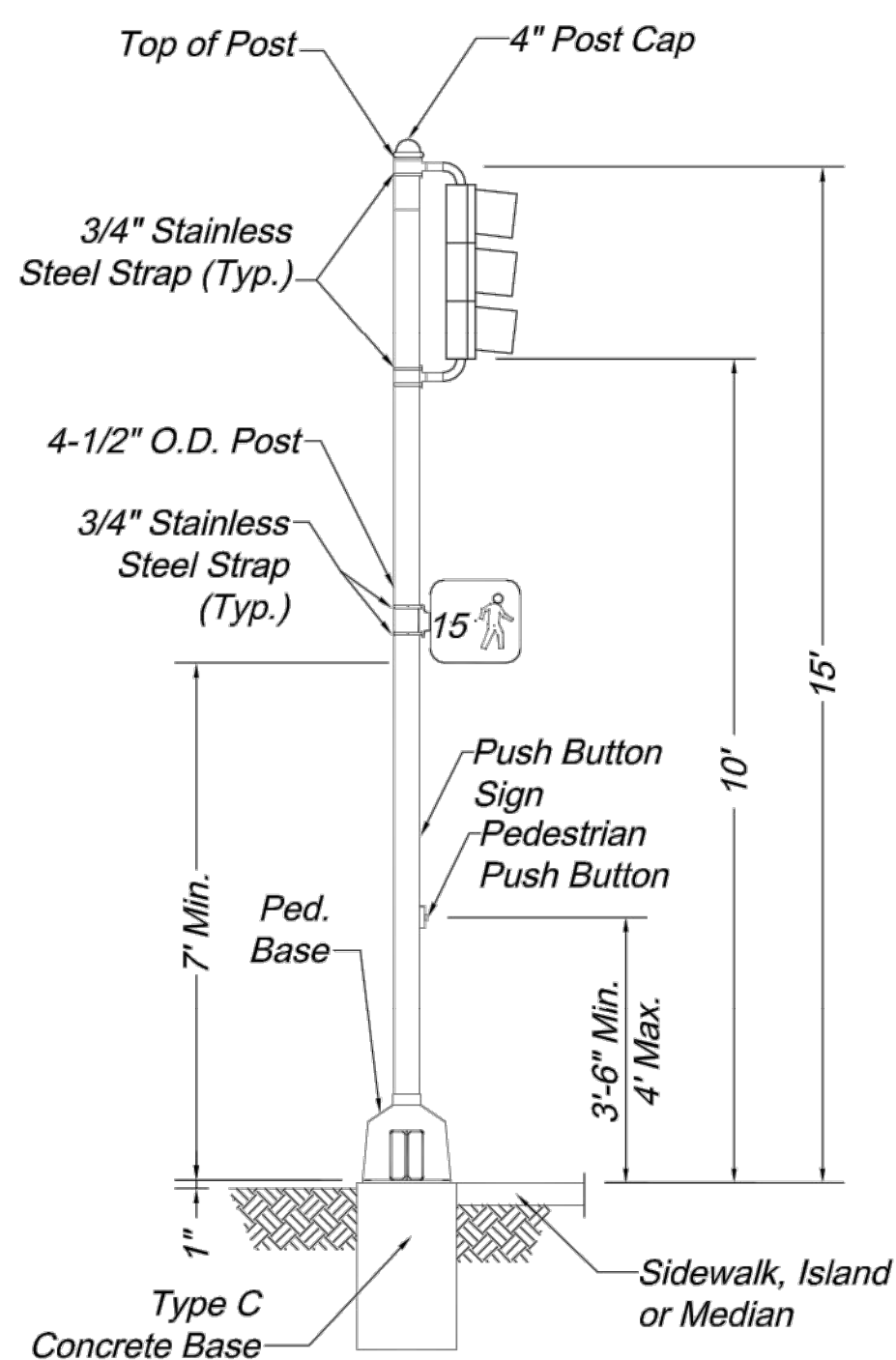
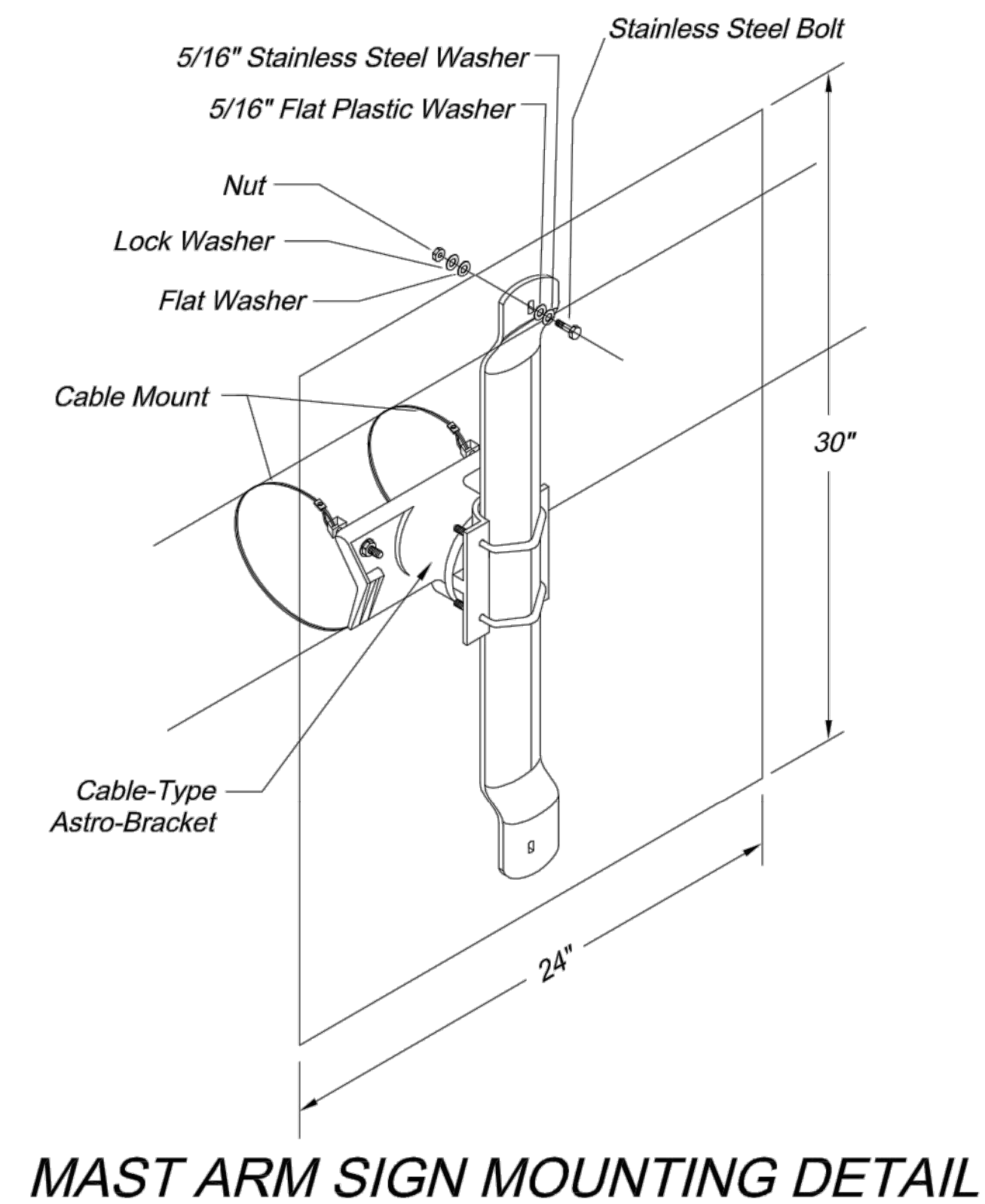
1 No sign in excess of 15.0 square feet shall be installed on posts or mast arms. Signs exceeding 6.0 square feet shall be located so that the edge of the sign is no more than 12" from the centerline of the post. D3 series signs as well as signs installed on the post shall be mounted with a strap type sign support. R10 series signs installed on the mast arm shall be mounted with an Astro-Bracket assembly.

MAST ARM POLE MOUNTING



SIGNAL HEAD MAST ARM MOUNTING DETAIL

Astro-Brac Terminal Compartment Bracket Assembly
Note: Only cable type Astro-Brac will be allowed, no bands.



PEDESTAL POST MOUNTINGS

General Notes:

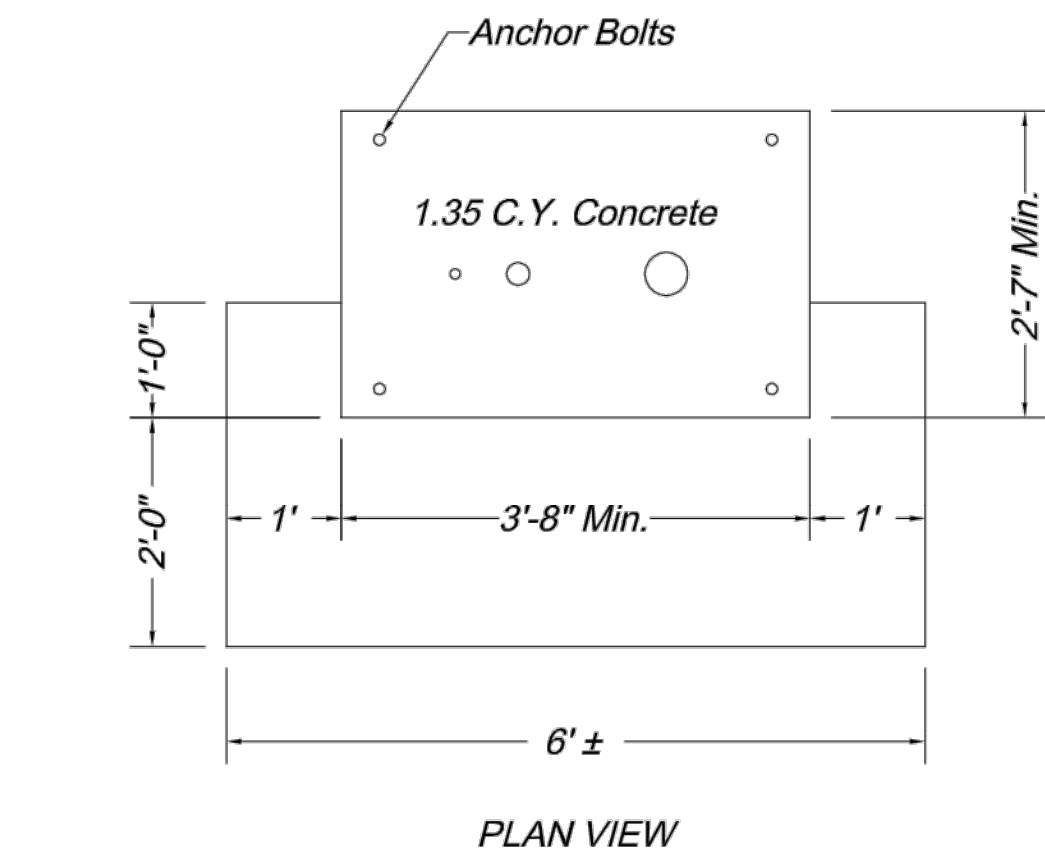
- All post wire outlets shall be deburred and equipped with bushings.
- Backplates not shown in mounting diagrams for clarity.
- Posts shall be grounded with #6 AWG bare copper wire from grounding bushing on conduit to grounding lug in post base if steel conduit is used. If Non-metallic conduit is used, provide #6 AWG wire from grounding lug in post to power supply ground buss in controller cabinet.
- Leads from pedestrian signal lamps are connected to the signal head terminal compartment.
- All signals shall be mounted vertically unless otherwise noted on the traffic signal plans.
- Span wire mounted signals shall have a disconnect hanger.
- Signal heads on mast arms shall be tilted forward from the top 3 to 7 degrees from vertical.
- If a sign exceeds 42" in length, two supports are required: and if a sign exceeds 96" in length, three supports are required.
- Mast arm mounted signals shall have a terminal compartment.
- Side-mounted optically limiting heads shall have a minimum post clearance of 5-1/2".
- Symbol for pedestrian lenses shall have a minimum height of 11"
- Push button signs shall be mounted directly above the actuator, except for locations on 4' pedestals the sign shall be located directly below the actuator.
- Signal appurtenances shall have a horizontal clearance no less than 2' from the face of a vertical curb or from the outside edge of a shoulder, except signals located in a median island.
- See standard drawing TS-3 for base details.

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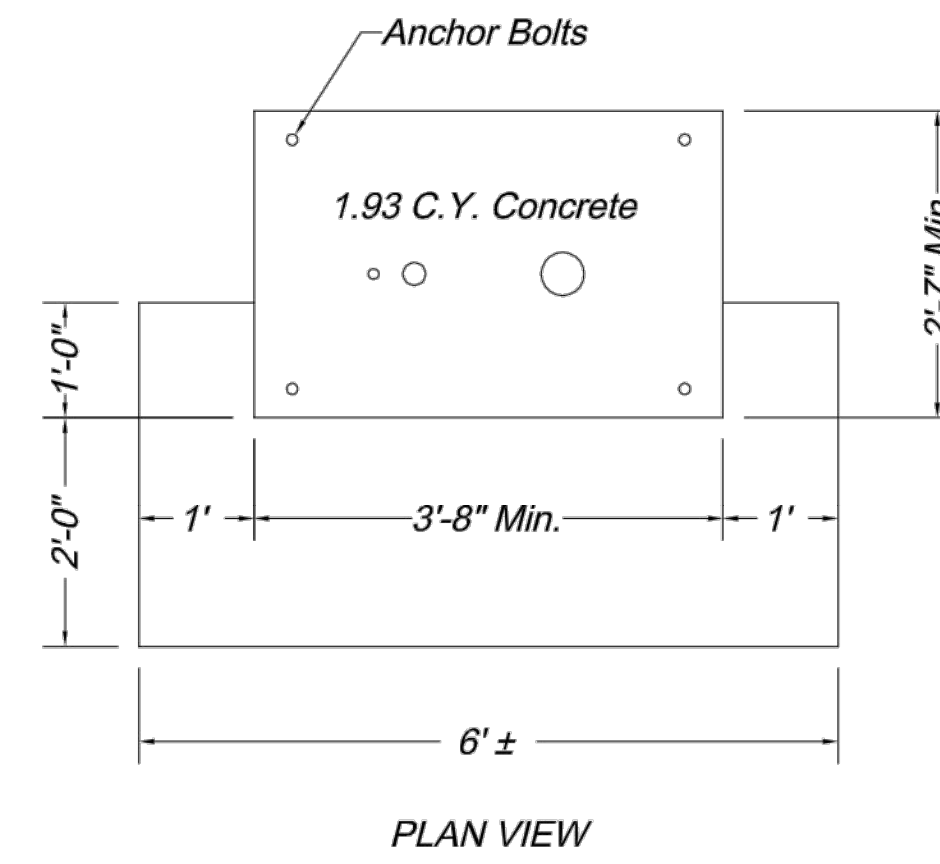


SIGNAL HEAD MOUNTING DETAILS
STANDARD DRAWING TS-1

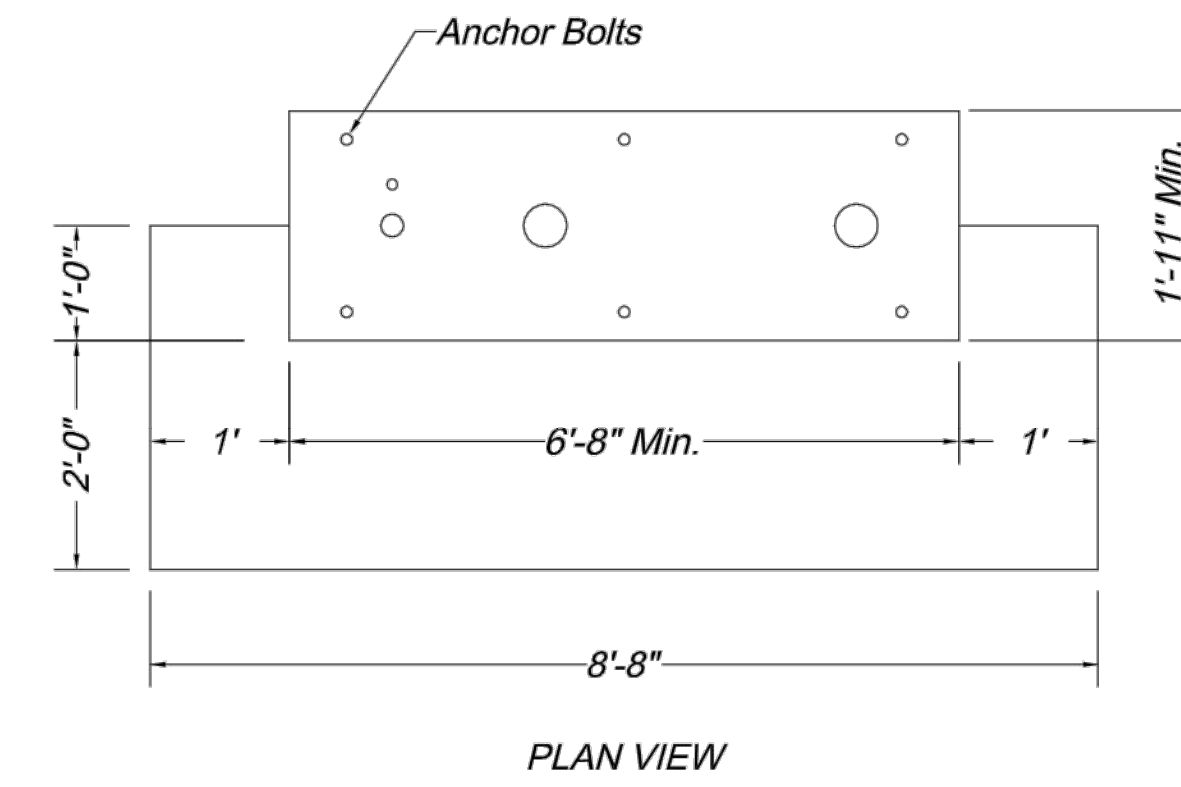
Drawn By: AS
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Project#



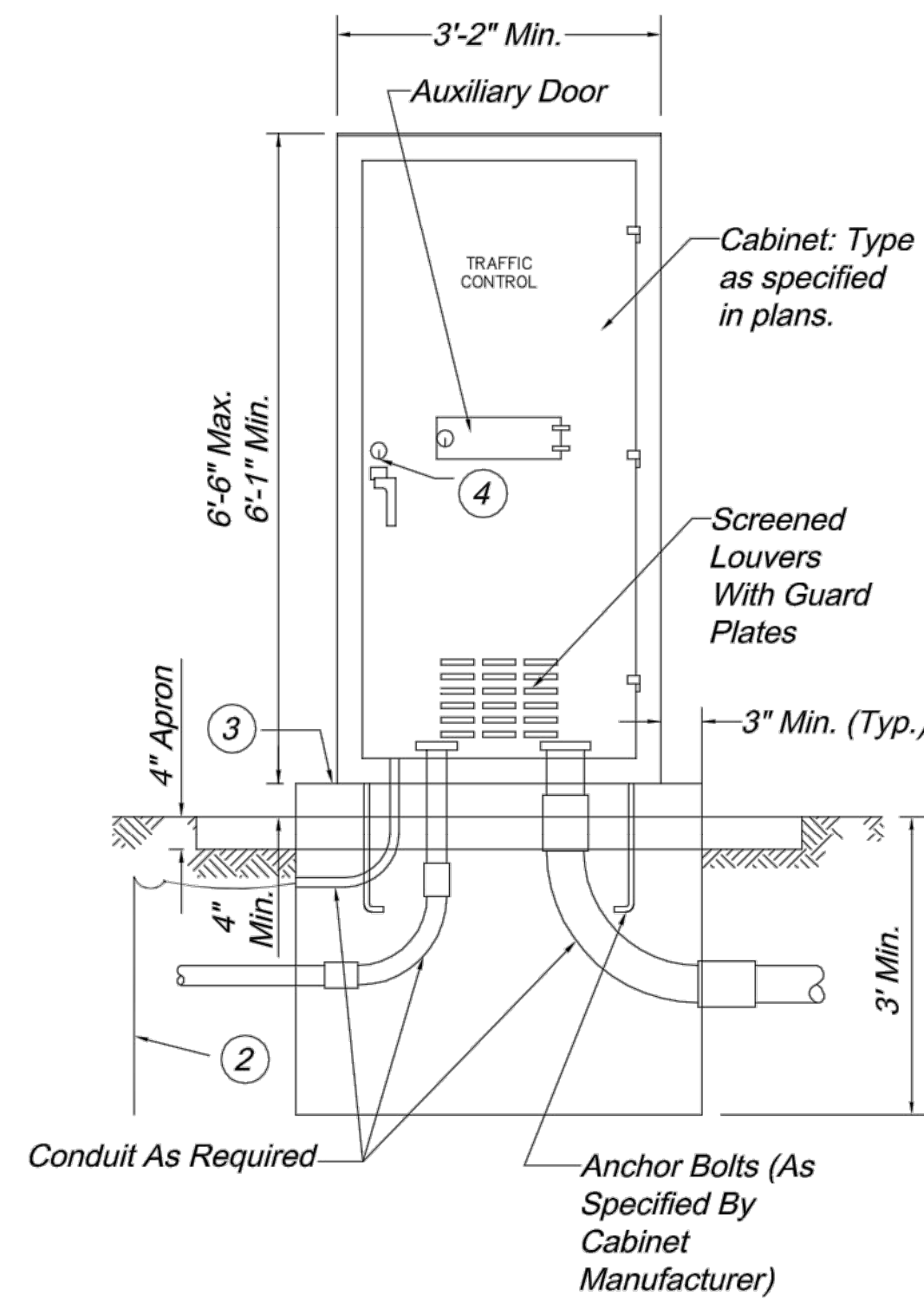
PLAN VIEW



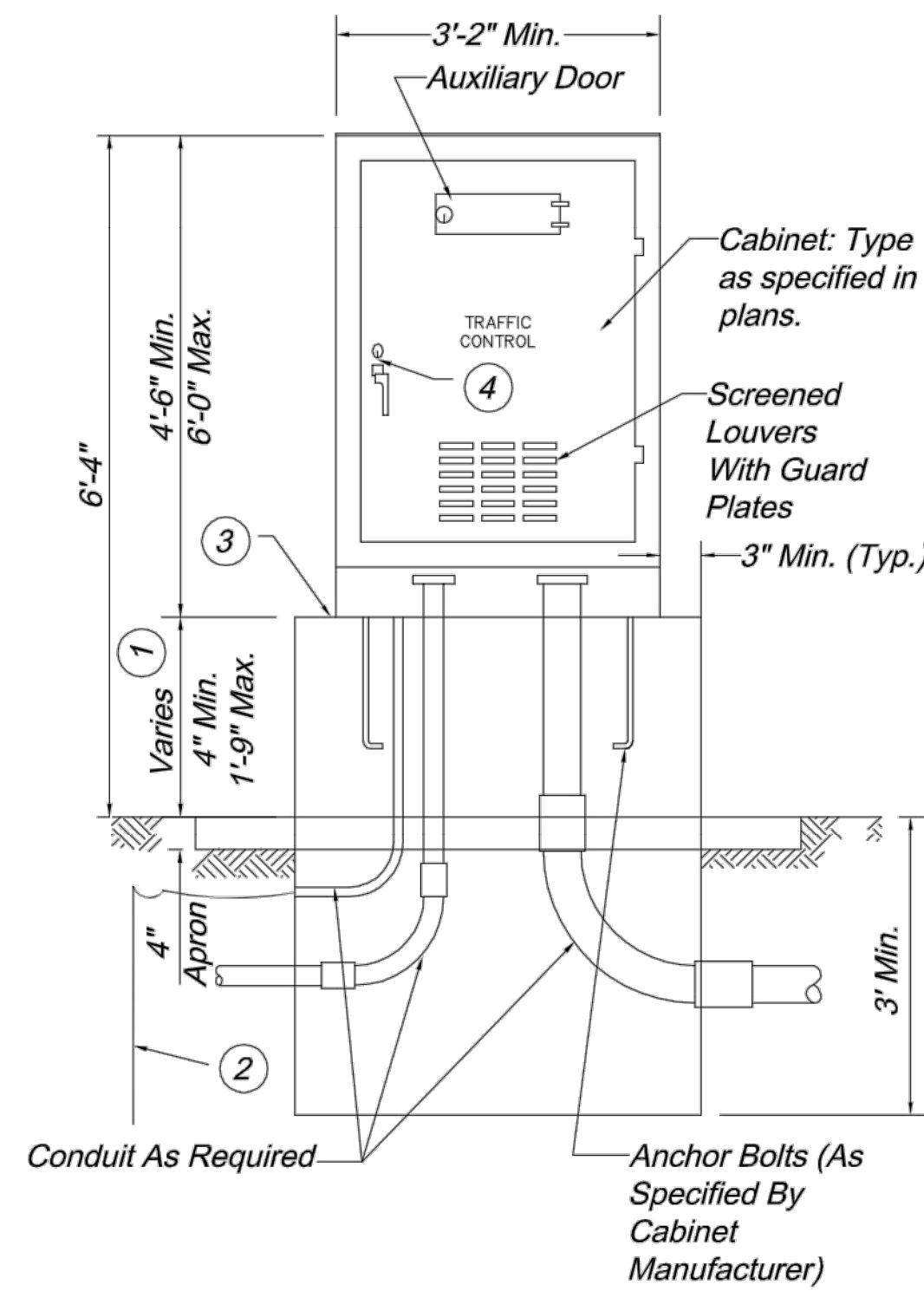
PLAN VIEW



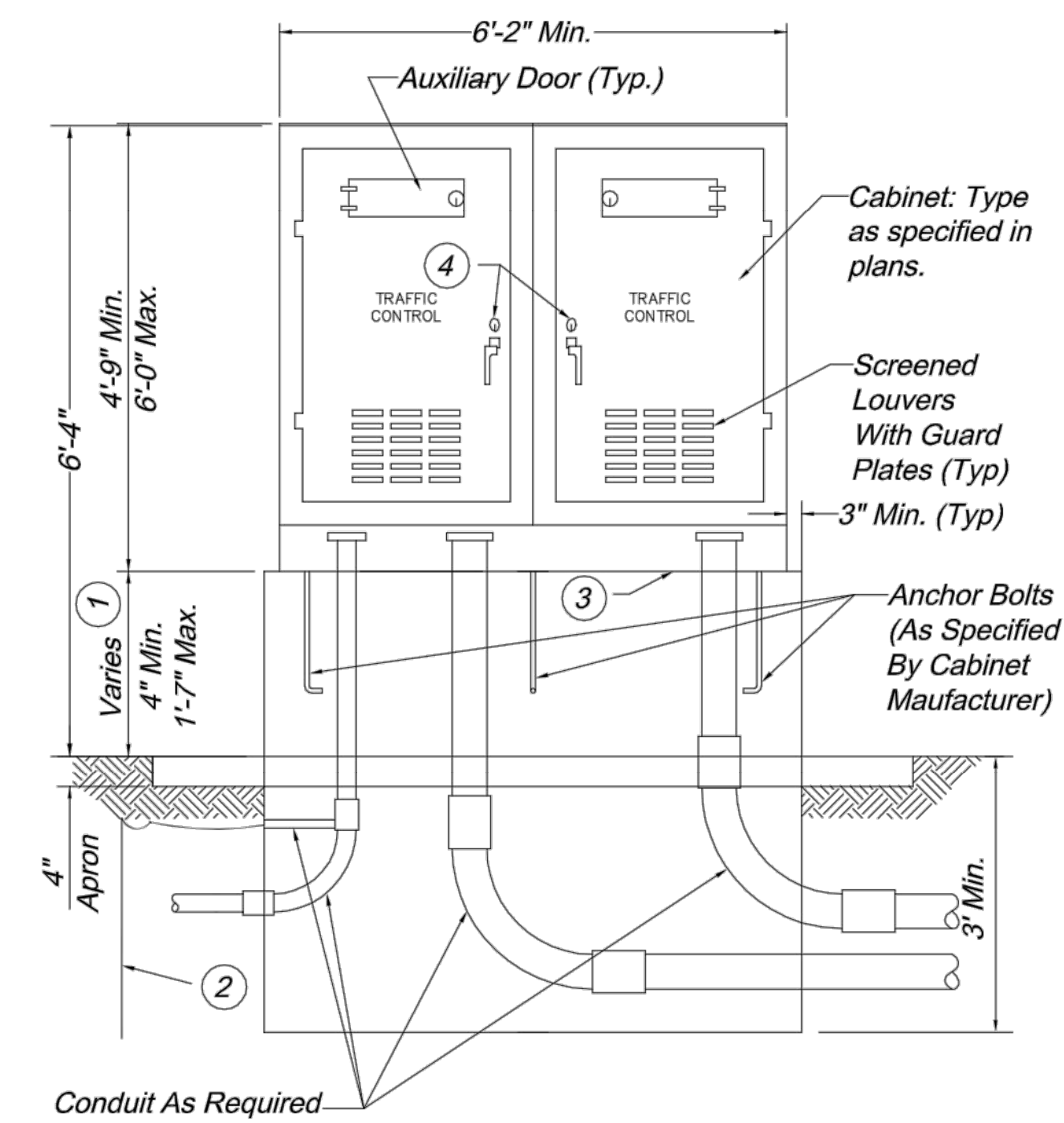
PLAN VIEW



For Controller Cabinets With Heights From 6'-11" To 6'-6" TYPE E

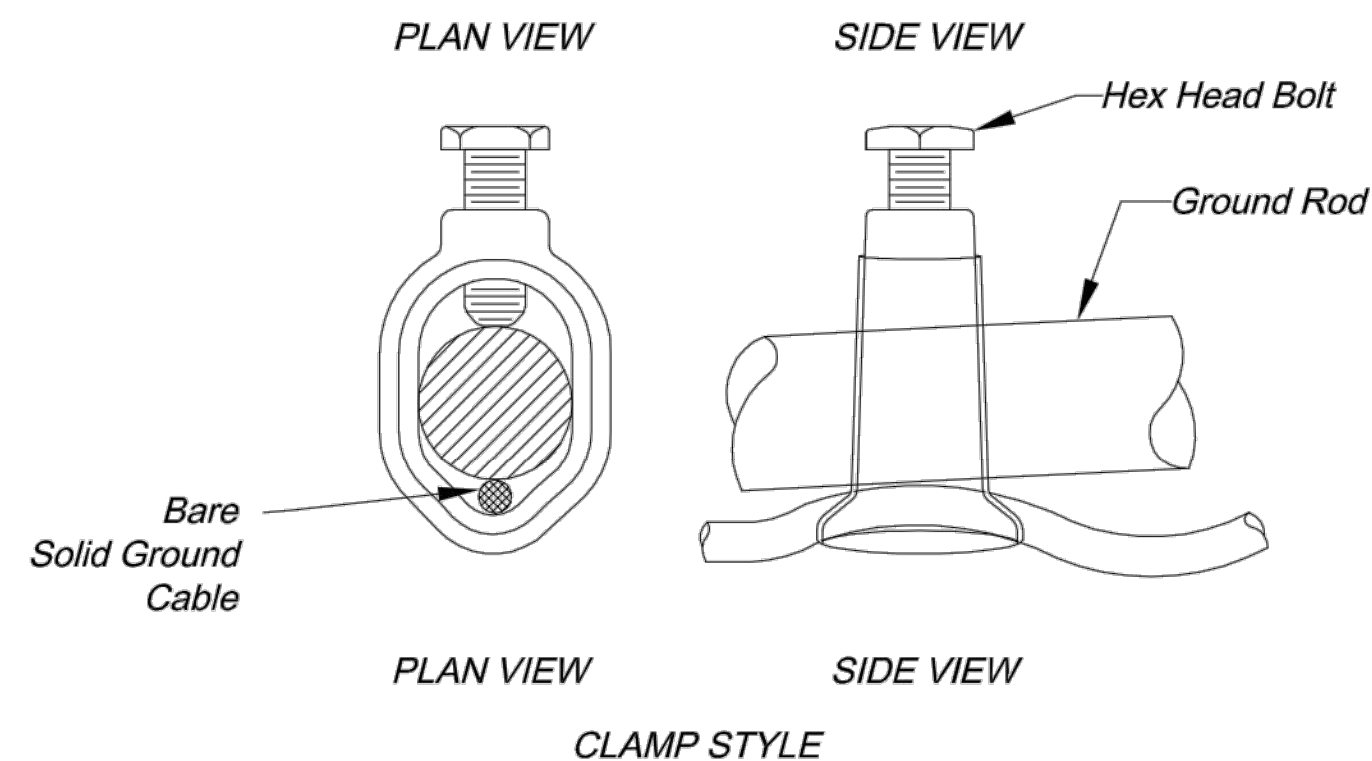


For Controller Cabinets With Heights From 4'-4" To 6'-0" TYPE EV



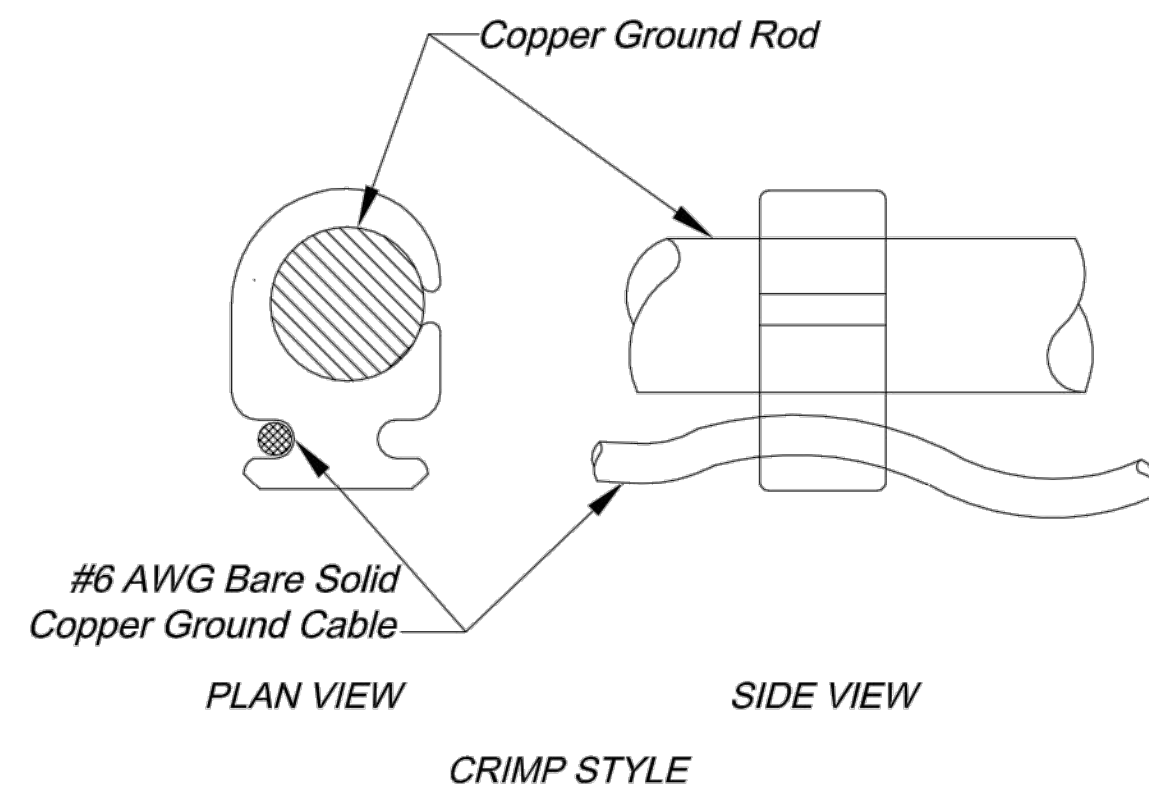
DOUBLE

CONTROLLER CABINETS AND BASE TYPES



GROUND ROD CLAMP CONNECTION DETAIL

Ground rod clamp shall be subsidiary to ground rod.



General Notes:

Traffic signal controller cabinet shall be oriented with the back of the controller cabinet facing the intersection, such that when the door is open the signal head indications can be viewed while looking inside the cabinet.

- ① Dimension varies according to cabinet height.
- ② Ground rod, 3/4" dia. x 8' min. If subsurface conditions exist which prohibit the placement of the ground rod in a vertical position, the rod may be driven at an oblique angle not to exceed 45 degrees from vertical or buried in a trench at least 30 in. deep. Connection to ground rod shall be clamp type as detailed.
- ③ Lifetime silicone caulk between cabinet and base.
- ④ #2 corbin lock.

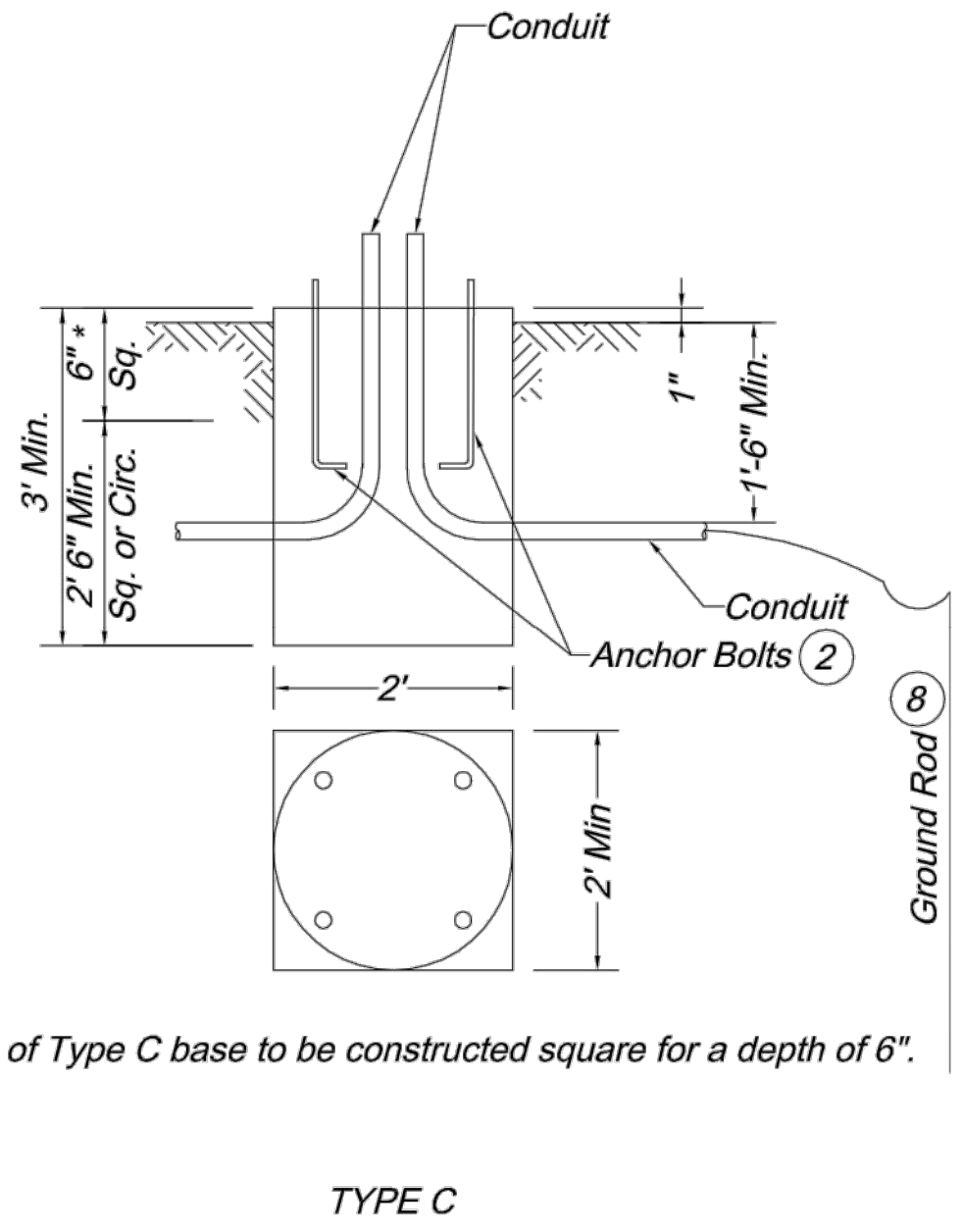
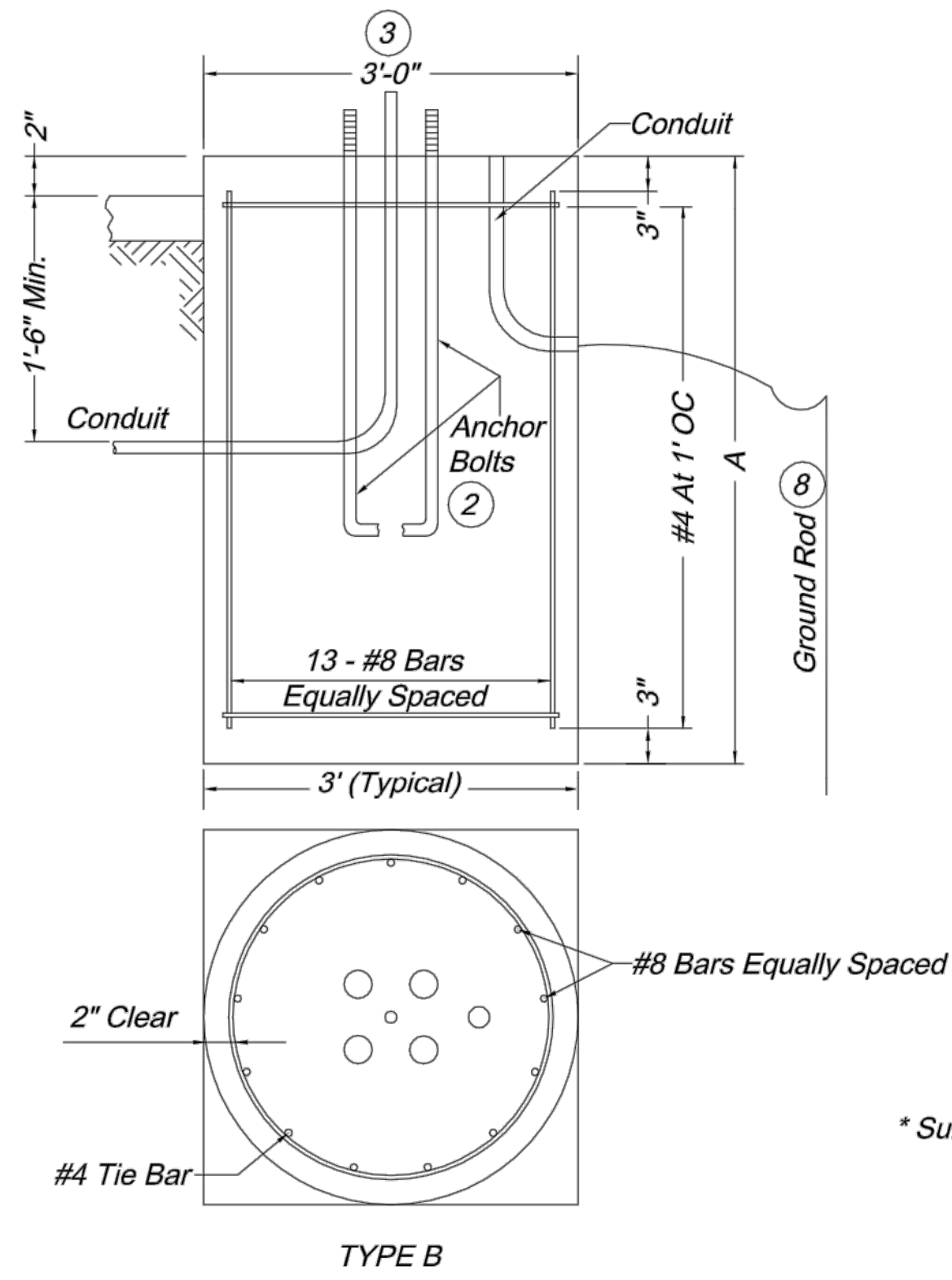
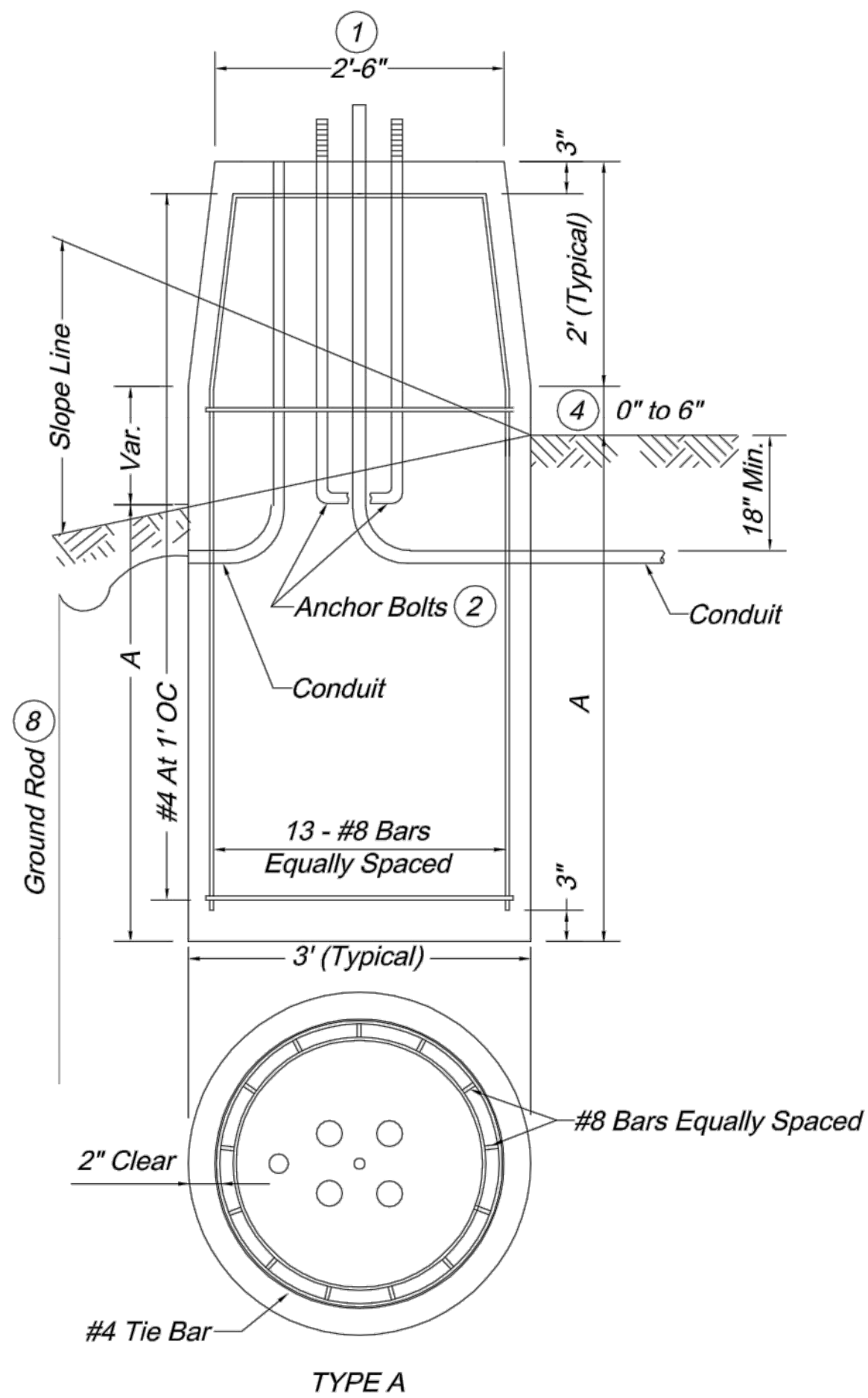
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CONTROLLER CABINET & BASE
DETAILS

STANDARD DRAWING TS-2

Drawn By: AS
Checked By: MP
Date: 09/25/2009
Project#



POST BASES

POST BASES		
Post Type	Arm Length (Ft.)	Base Type
B, BL, C & CL	8 - 14	A-8 or B-8
B, BL, C & CL	15 - 34	A-10 or B-10
B, BL, C & CL	35 - 54	A-13 or B-13

Arm length determined by length of longest arm for Type B & BL signal posts.

Base Type A or B determined by location of post base.

Special Design Requirements:

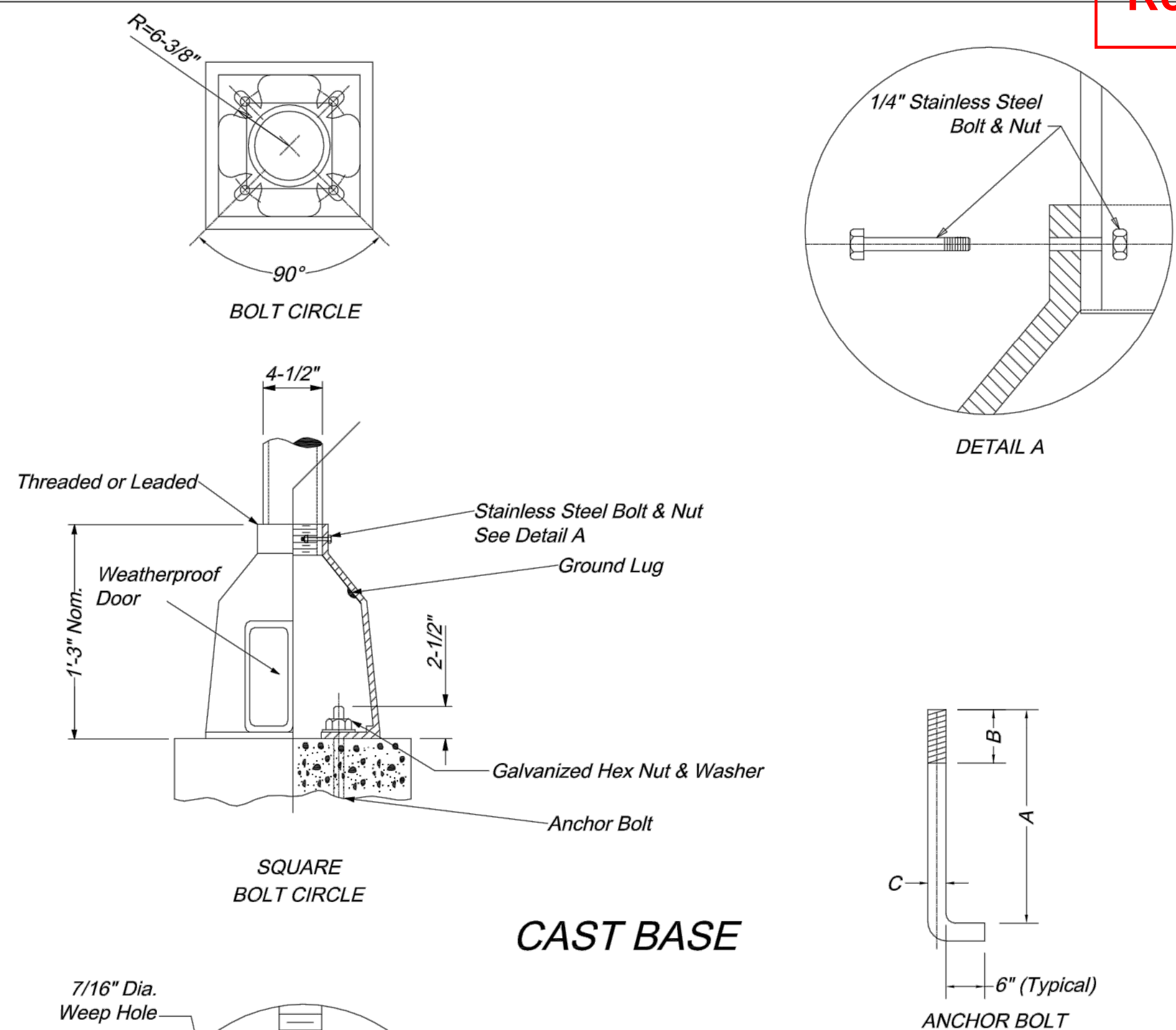
Signal structures which will exceed the dimension limits shown on Standard Drawing TS-5 shall have its Post Base designed by a professional engineer and approved by the City Engineer (or designee). A set of drawings including specifications and design computations shall be submitted for record and reference. The submitted drawings and calculations shall be signed and sealed by a professional engineer in accordance with the laws relating to architects and professional engineers (Chapter 327, RSMO) and shall include a title block or summary sheet which lists and certifies that the foundation will meet the design criteria.

STEEL & CONCRETE REQUIREMENTS FOR POST BASES				
Type	Bases		#8 Steel Bar	
	A (10)	Length	Weight Lbs (11)	Conc. C.Y.
A-8	8'-0"	9'-6"	399	2.53
A-10	10'-0"	11'-6"	481	3.06
A-13	13'-0"	14'-6"	604	3.84
B-8	8'-0"	7'-6"	317	2.09
B-10	10'-0"	9'-6"	400	2.62
B-13	13'-0"	12'-6"	523	3.40
C*				0.44

(10) Soil depth, no rock
(11) Include #4 tie bar
* Surface of Type C base to be constructed square for a minimal depth of 6".

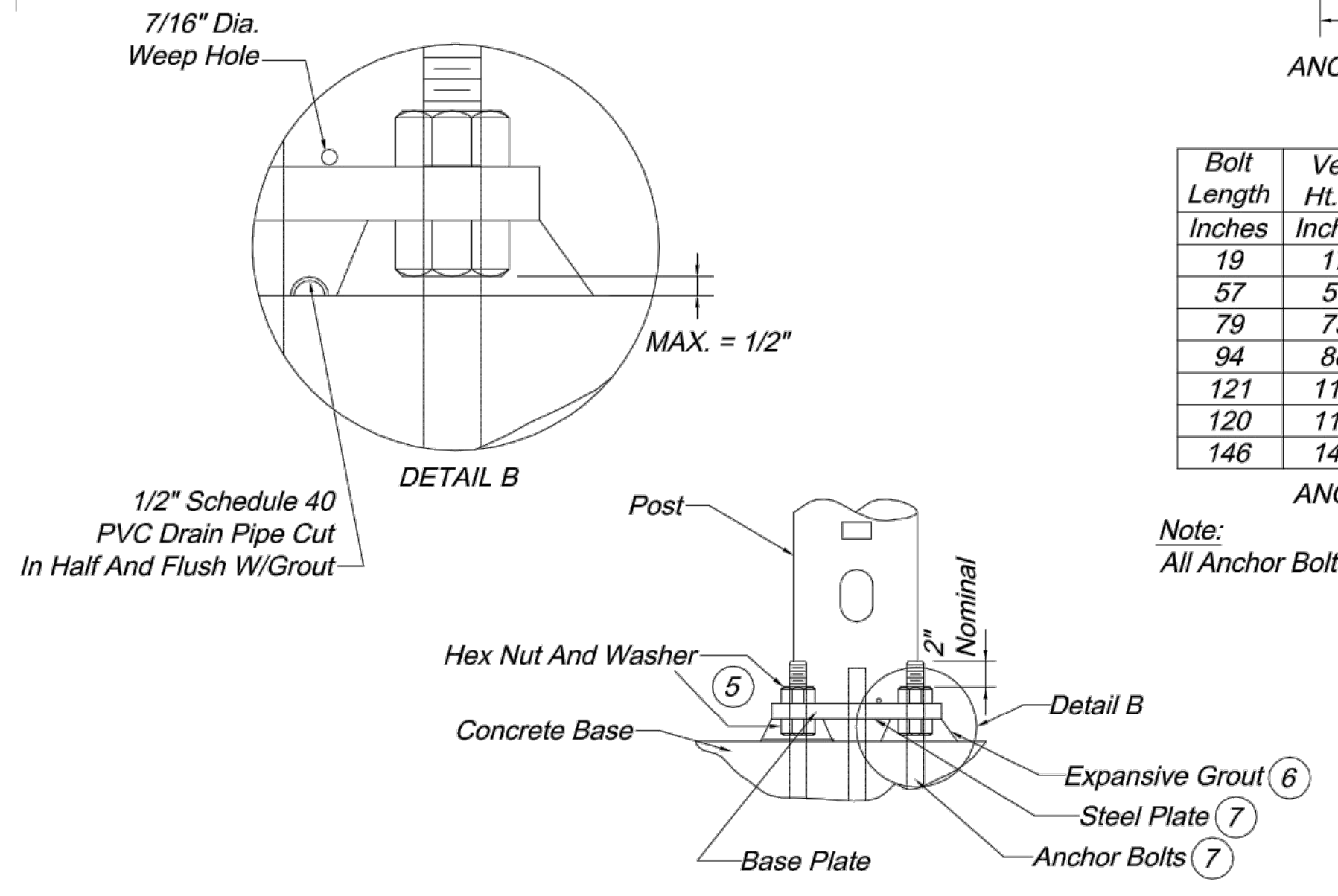
Solid Rock Encounter Point	Required Embedment For Base Type		
	A-8 B-8	A-10 B-10	A-13 B-13
At Surface	4'-6"	4'-9"	5'-9"
At One-Fourth Normal Depth	3'-6"	4'-0"	5'-0"
At One-Half Normal Depth	3'-0"	3'-3"	3'-3"
At Three-Fourths Normal Depth	1'-3"	1'-3"	1'-0"

- Required embedment depths can be interpolated between encounter points for other solid rock encounter depths.
- Normal lengths for anchor bolts and reinforcing steel will be required.
- Core drill holes for anchor bolts and reinforcing steel in solid rock shall be provided. Core drill holes shall be twice the diameter of the anchor bolt and reinforcing steel diameter and to within 3 inches of the normal base depth.
- If soil, shale, gravel, fractured rock, or voids are encountered during core drilling, the rock shall be removed to the point of encounter.
- Anchor bolts and reinforcing steel shall be grouted in the core drill holes with non-shrink grout having a minimum strength of 9,000 pounds in 24 hours.
- Straight anchor bolts of the length shown in the anchor bolt table under the column "bolt length" are adequate for use in grouted core drilled holes. No heat induced alteration or bending of anchor bolts will be permitted.

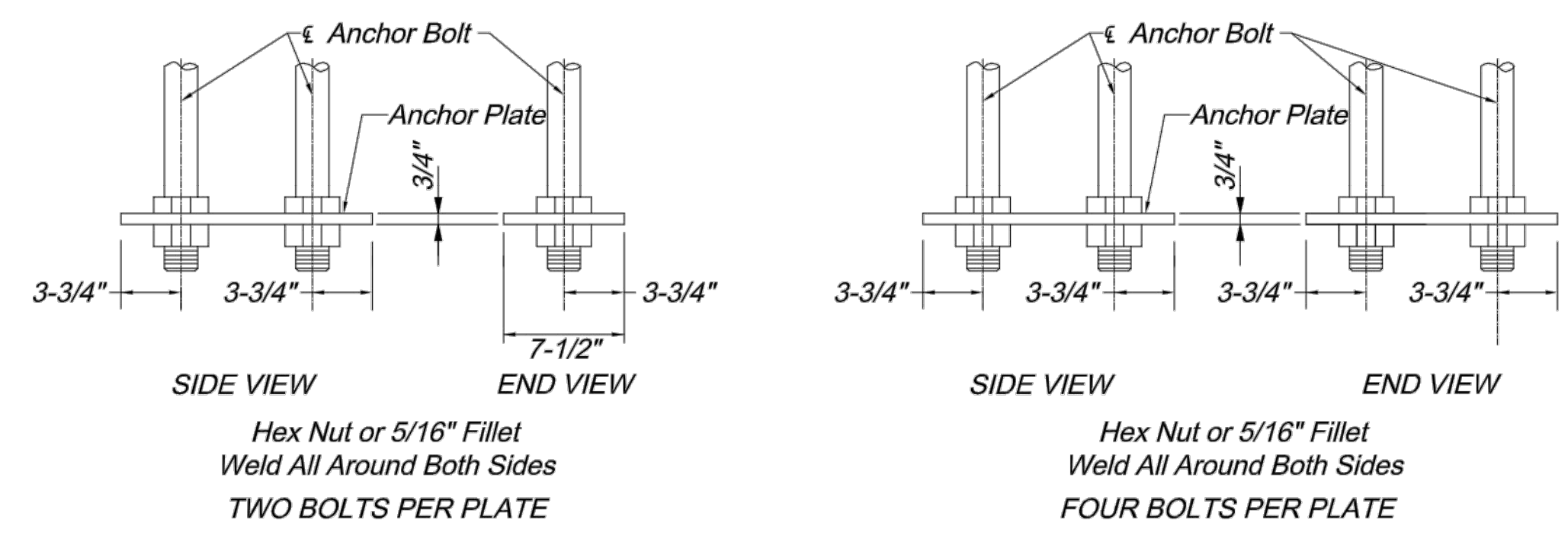


Bolt Length Inches	Vert Ht. A Inches	Thread Len. B Inches	Dia. C Inches
19	17	1.50	0.625
57	51	7.00	1.250
79	73	7.50	1.500
94	88	8.00	1.750
121	115	8.50	2.000
120	114	9.00	2.250
146	140	9.50	2.500

Note: All Anchor Bolts Shall Be Fully Galvanized.



STEEL PLATE AND ANCHOR BASE



OPTIONAL STEEL PLATE FOR ANCHOR BOLTS

- If bolt circle is 22 inches or greater, use Type B base. If Type B base is used anywhere, all Type B, BL, C, and CL posts shall have Type B base. Base plate shall stay within the top of the post base diameter.
- Anchor bolt dimensions are shown on the manufacturer's approved drawings.
- Maximum bolt circle diameter is 26". Base plate shall stay within the top of the post base diameter.
- 0" to 6" variation in base height is for obtaining 16'-0" clearance. 0.13" C.Y. concrete and 3 lbs. reinforcing steel per 6".
- Posts shall be furnished with individual nut covers.
- Expansive grout shall be used between the post base plate and concrete base.
- Plate and bolt sizes shall be shown on fabricators shop drawings and shall be subject to approval.
- 3/4" x 8' minimum ground rod. If subsurface conditions exist which prohibit the placement of the ground rod in vertical position, the rod may be driven at an oblique angle not to exceed 45 degrees from vertical or buried in a trench at least 30 in. deep. Connection to ground rod shall be clamp type as detailed on standard drawing TS-2.

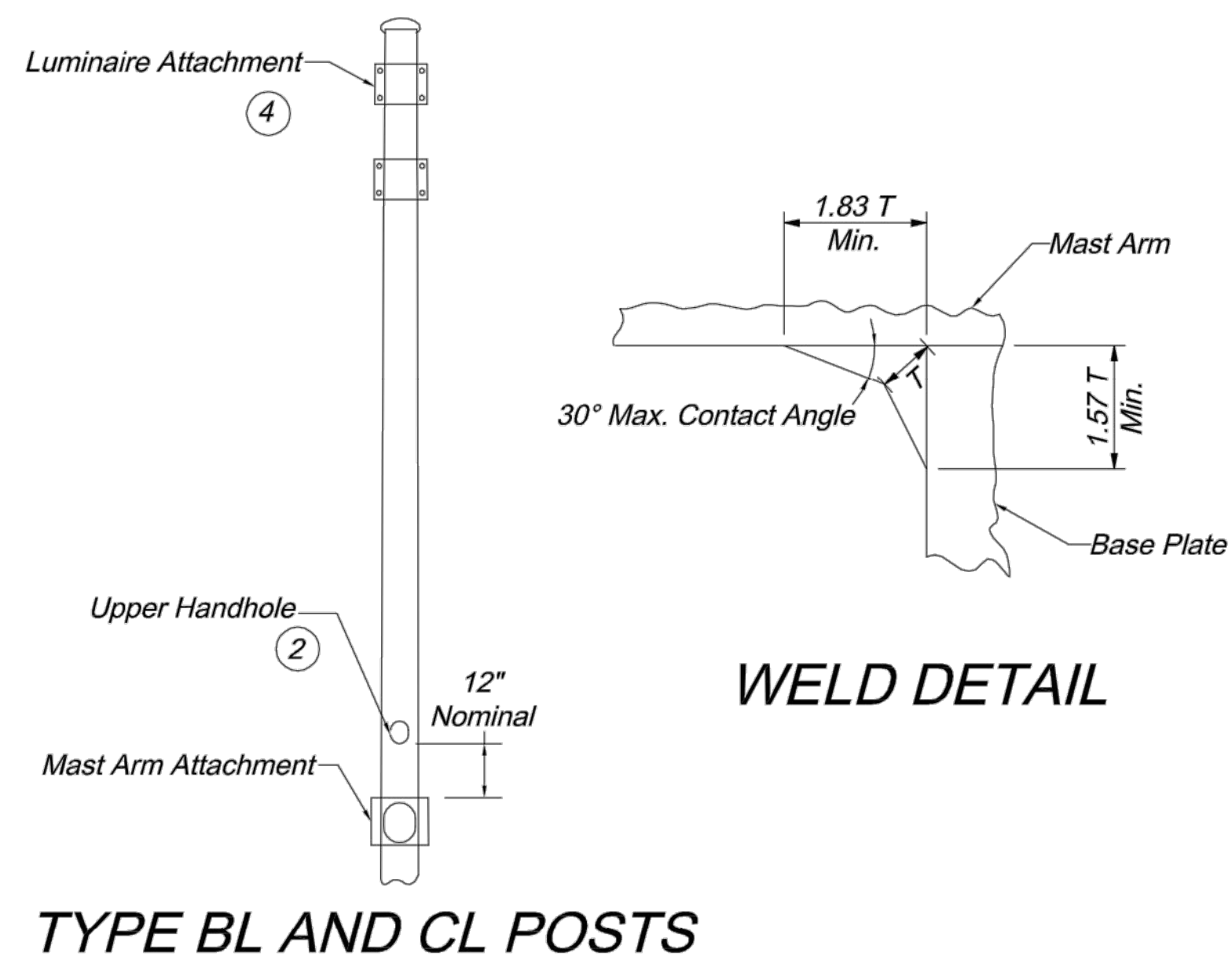
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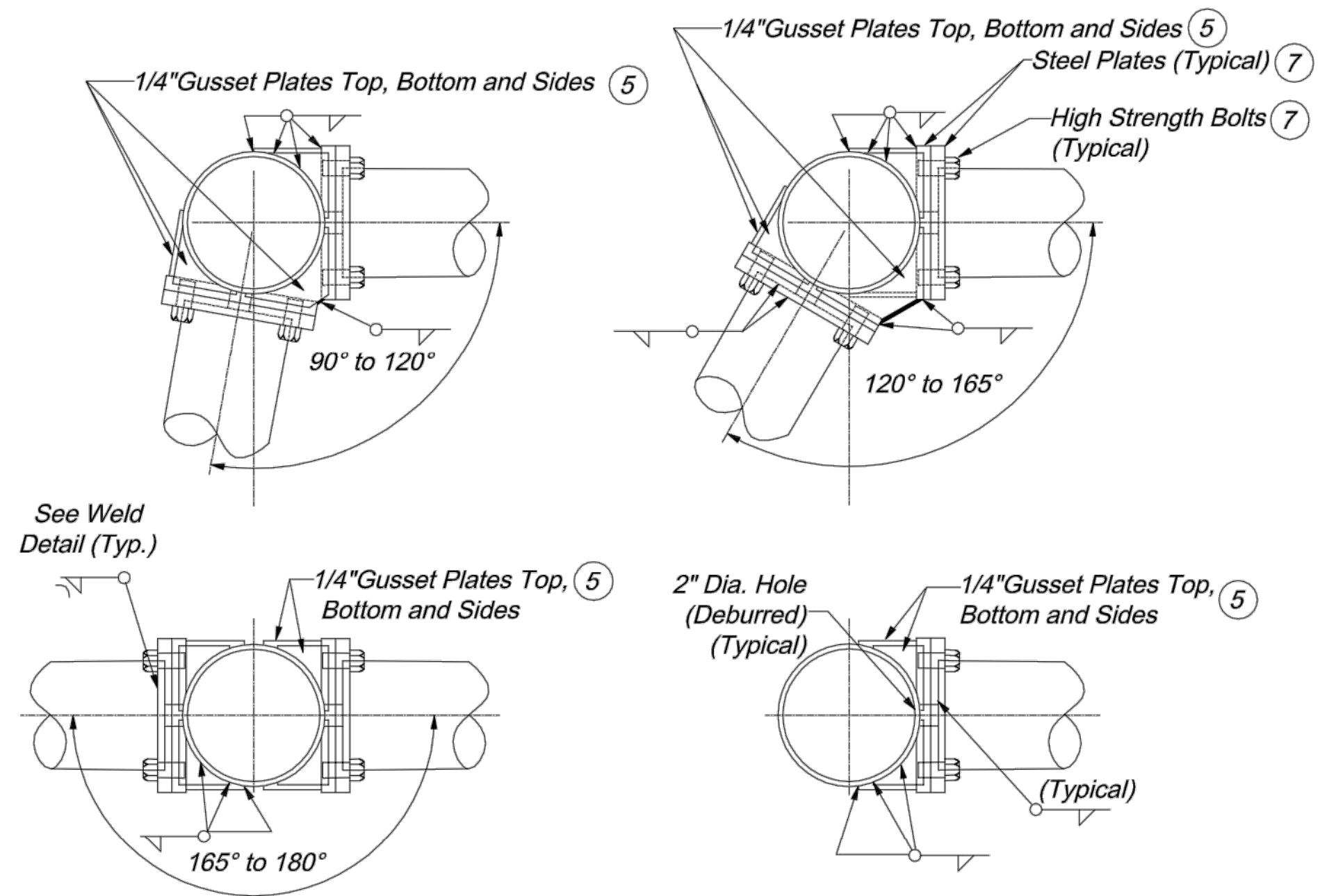
POST BASE DETAILS

STANDARD DRAWING TS-3

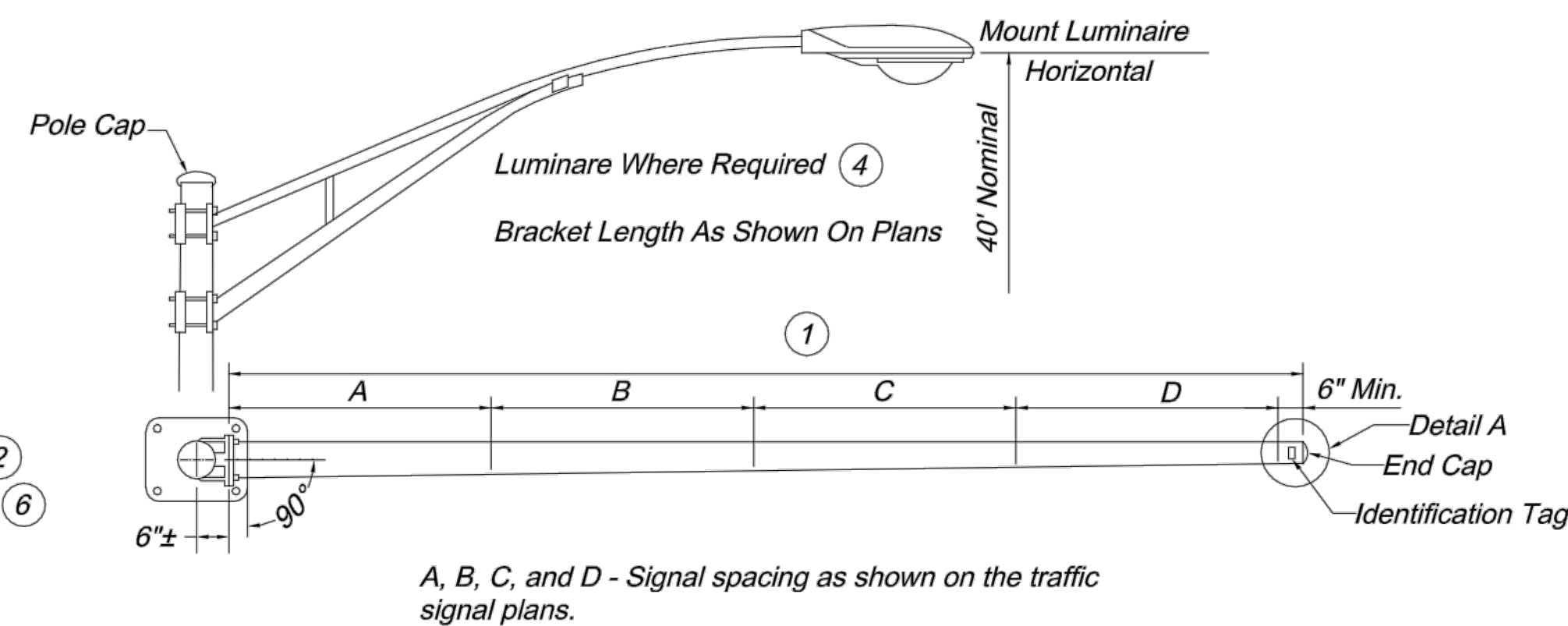
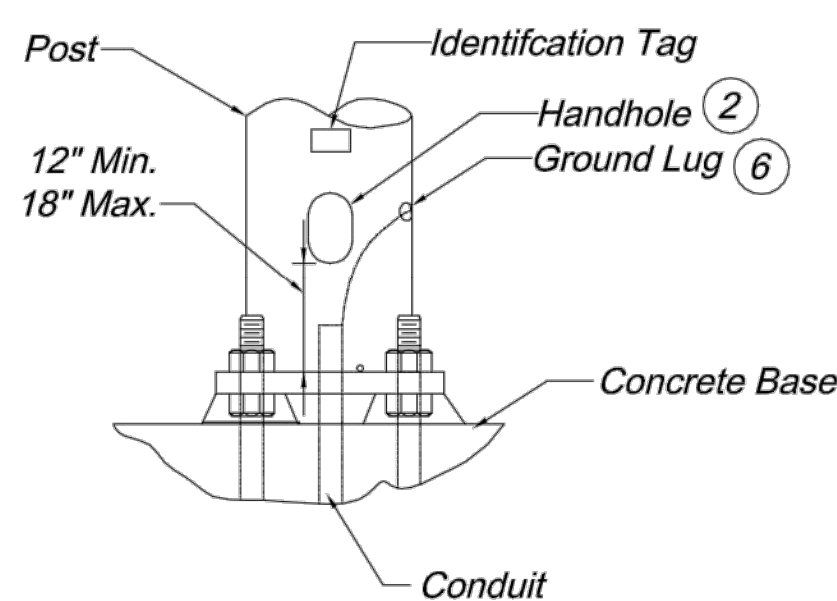
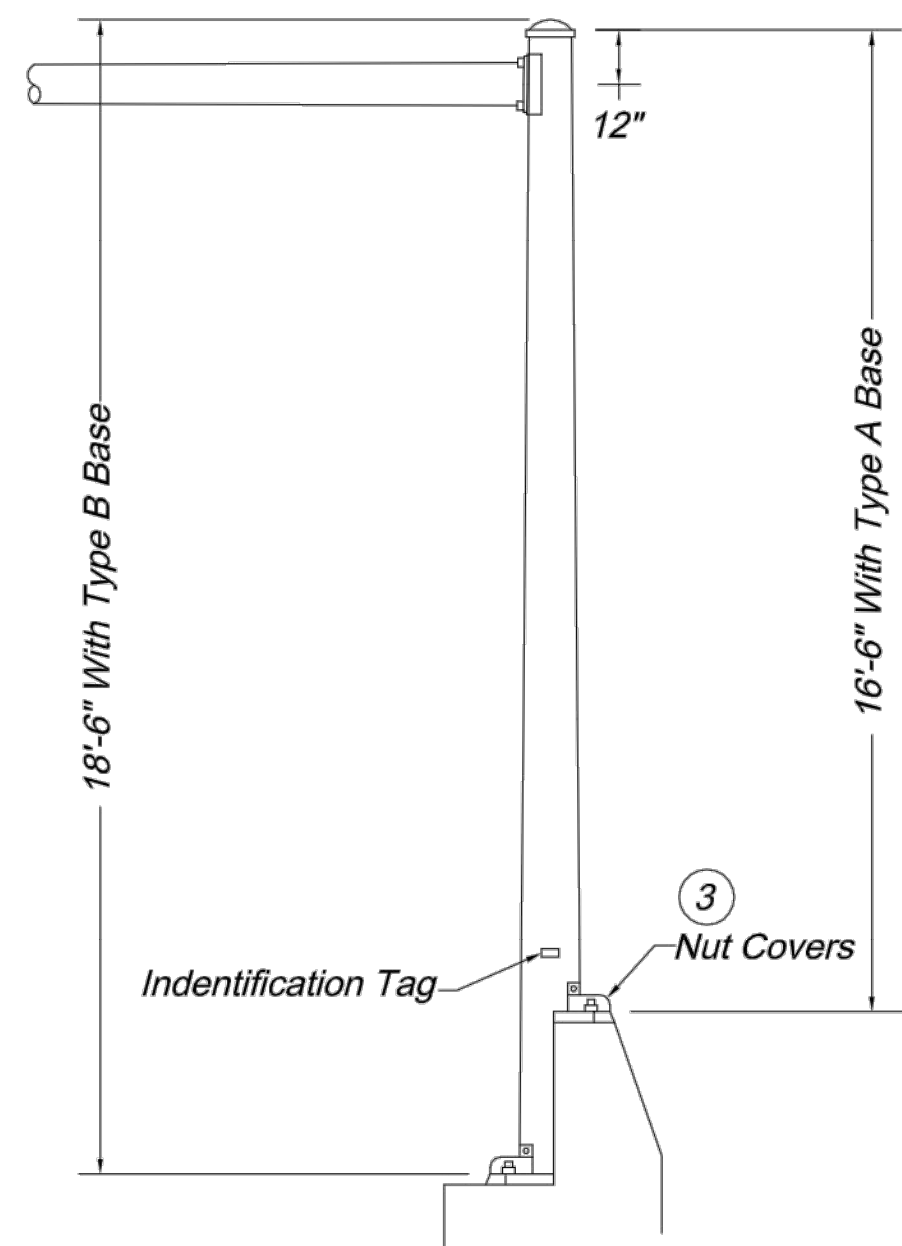
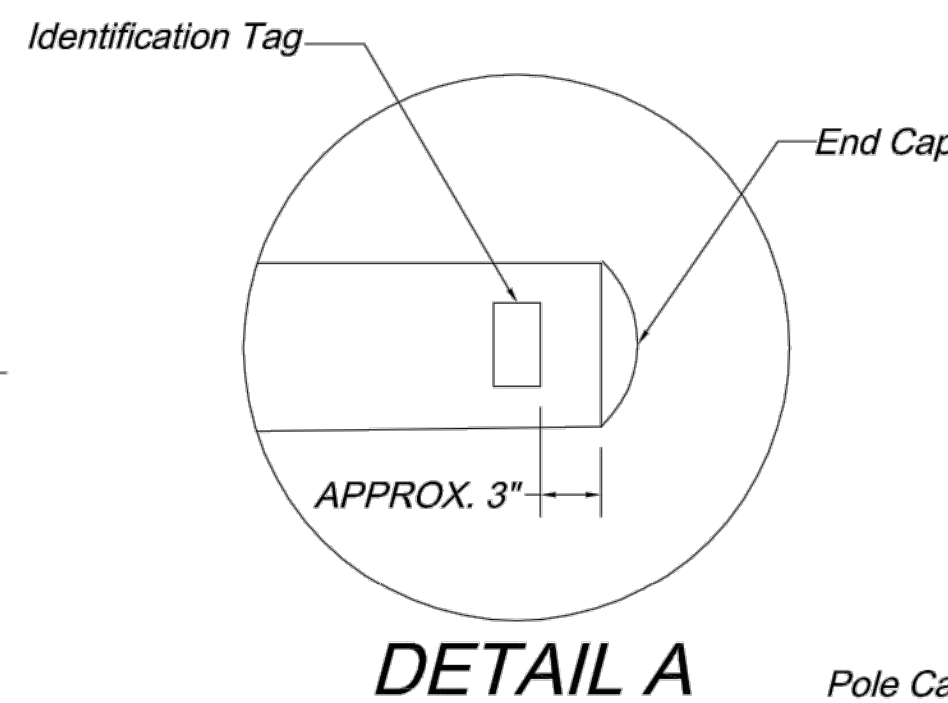
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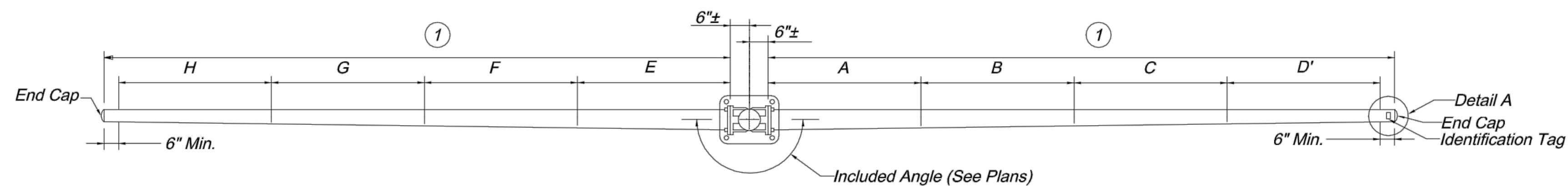
WELD DETAIL



ARM ATTACHMENTS



TYPE C AND TYPE CL (WITH LUMINAIRE)



E, F, G, and H - Signal spacing as shown on the traffic signal plans.

A, B, C, and D - Signal spacing as shown on the traffic signal plans.



ID Tag Note:

Tag shall be aluminum or stainless steel and attached to pole or mast arm using two rivets or stainless steel drive screws. ID tag holes shall be drilled prior to galvanizing.

- ① Arm Lengths shall not exceed 54 feet. See traffic signal plans for dimensions.
- ② Handholes shall be approximately 4" x 6-1/2". Handhole frame shall be reinforced so that the pole strength is not reduced.
- ③ Posts shall be furnished with individual nut covers.
- ④ See street lighting standard details for typical bracket arm mounting for Type BL and Type CL posts.
- ⑤ Any openings between top and side gusset plates shall be sealed with lifetime caulk at time of installation.
- ⑥ Post shall be grounded from ground lug in post with #6 AWG bare copper wire to conduit system. Ground lug shall be 90° or 180° from the handhole.
- ⑦ Plate and bolt sizes shall be shown on fabricators shop drawings and shall be subject to approval.

General Notes:

Arms shall be raked up 0.25" per foot minimum. Arms shall be provided with a permanent marking indicating proper orientation for installation.

To determine left or right on Type B or C signal post, viewing position shall be from the center of the intersection being controlled and facing the signal involved.

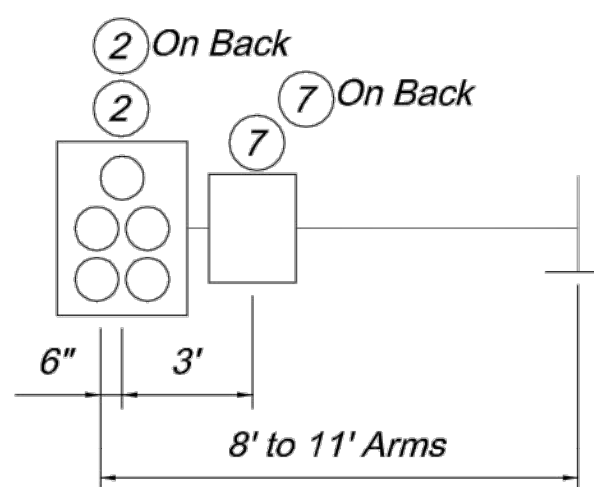
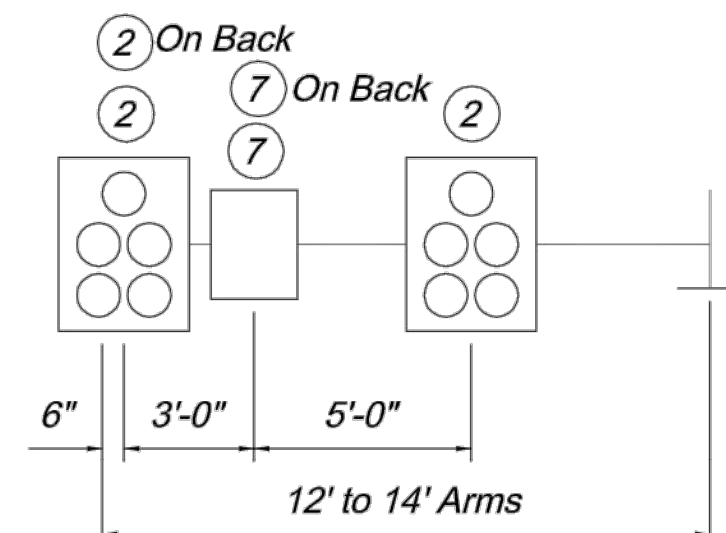
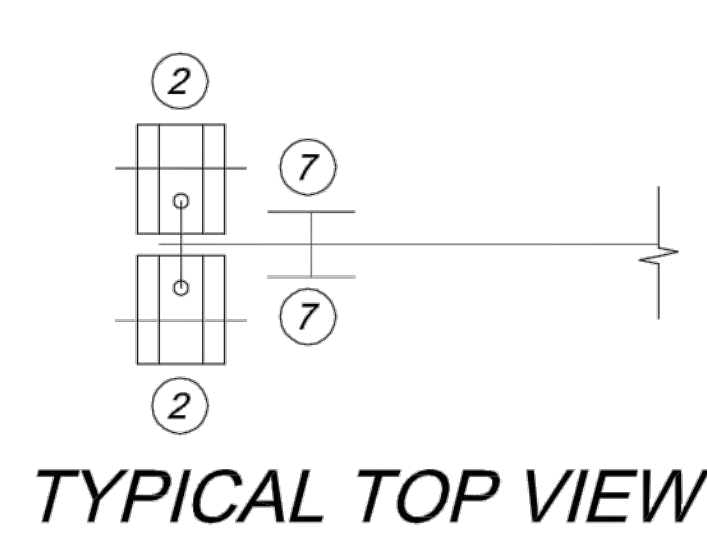
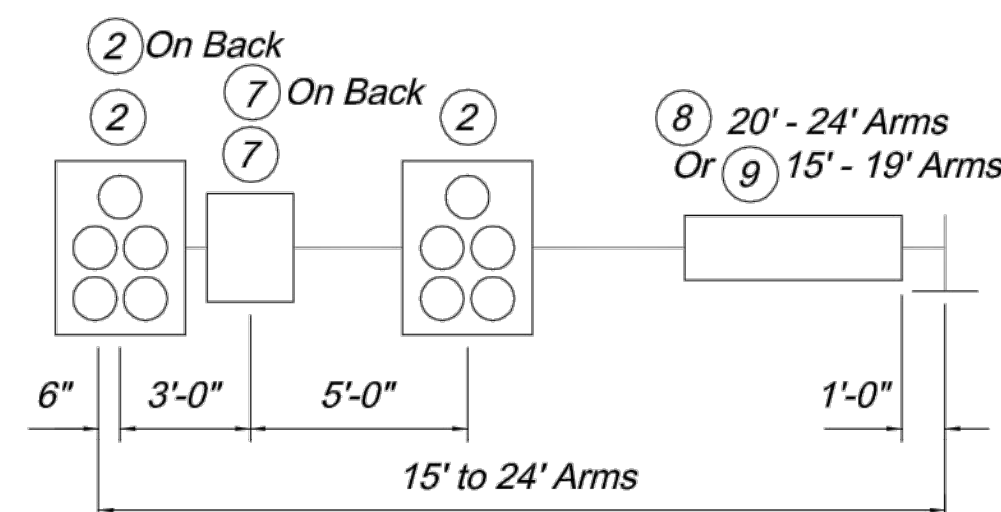
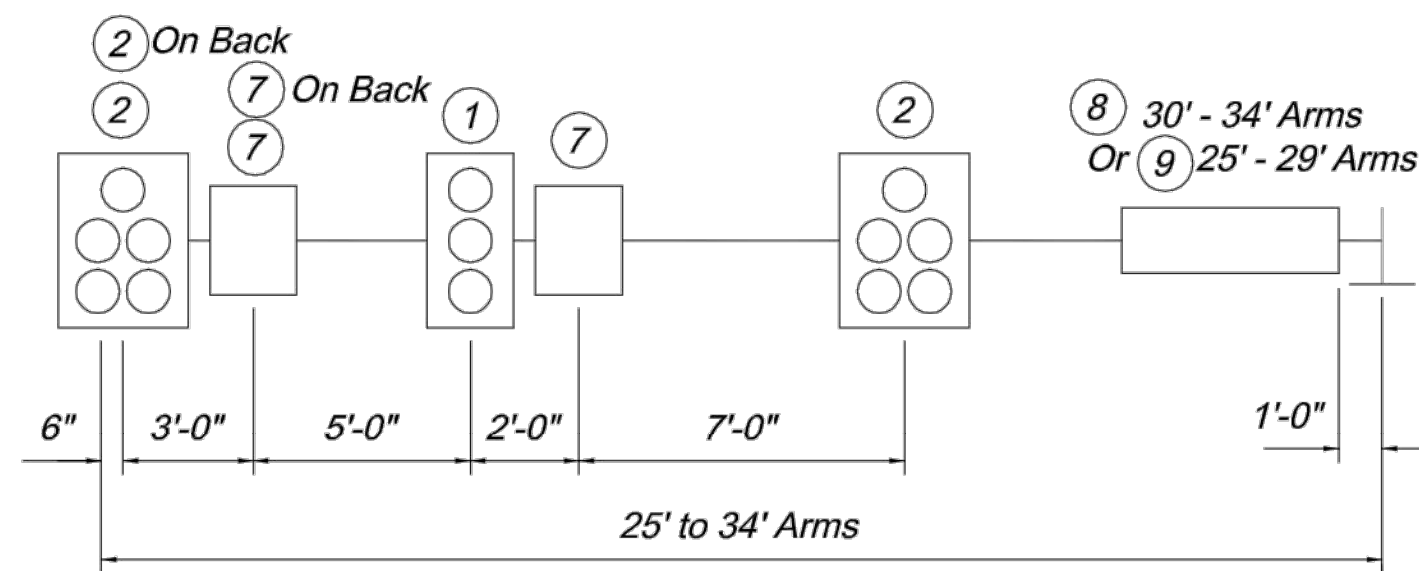
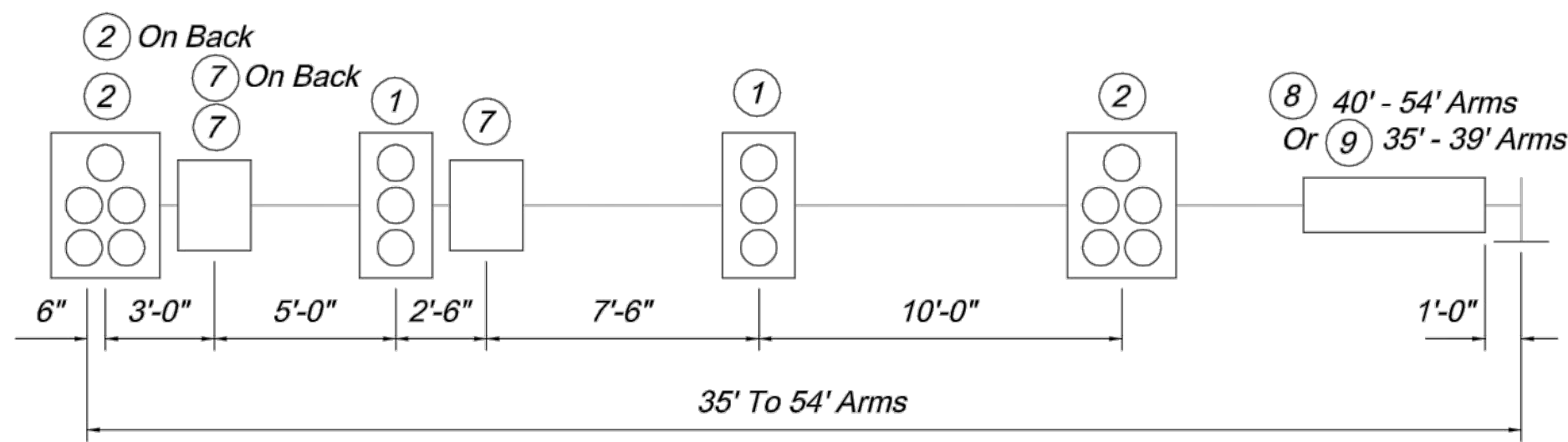
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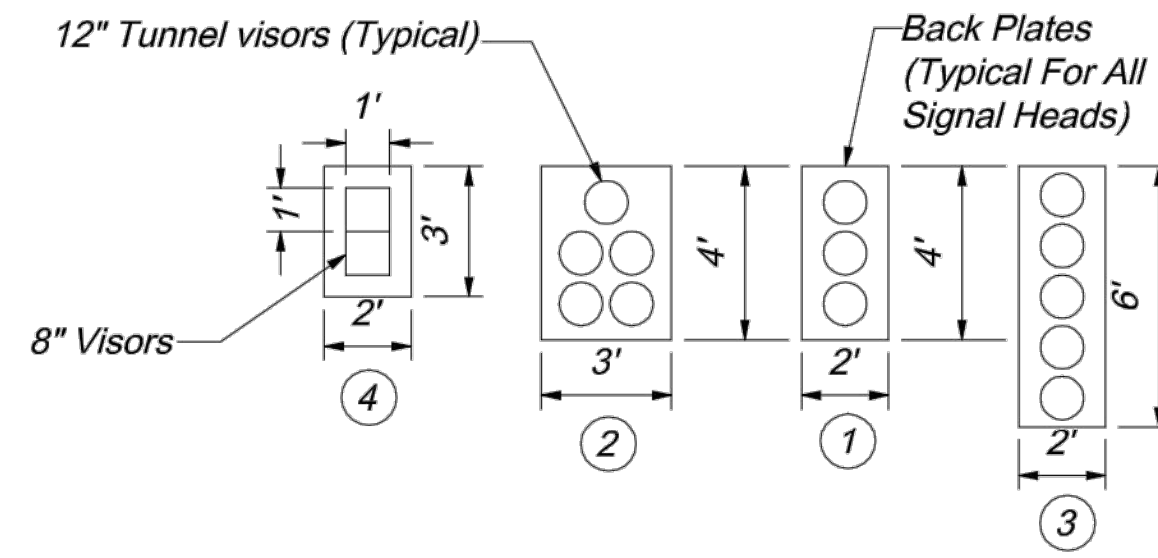
TUBULAR STEEL POST
DETAILS

STANDARD DRAWING TS-4

Drawn By: AS
Checked By: MP
Date: 09/25/2009
Project#



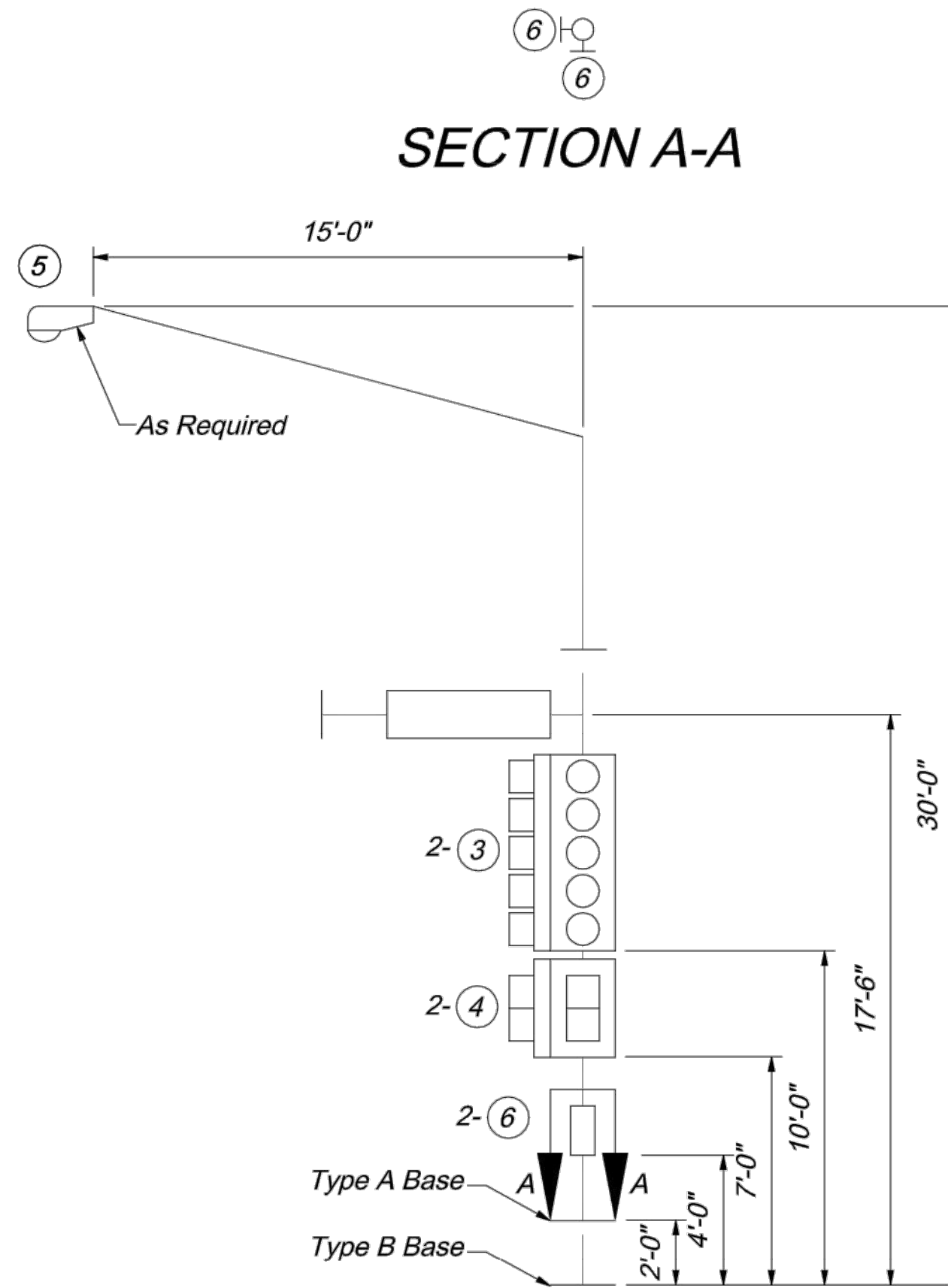
MAST ARM LOADING



Item No.	Description	Weight (Lbs.)*	Proj. Area (Sq. Ft.)	Surface Area (Sq. Ft.)
1	3-Section OL Head	60.0	8.0	32.5
2	5-Section OL Head	100.0	12.0	47.5
3	Vert. 5-Section OL Head	100.0	12.0	50.5
4	2-Section OL Head	40.0	6.0	23.0
5	150 Watt Luminaire	30.0	1.0	3.5
6	9" X 18" Sign	2.0	1.1	N/A
7	24" X 30" Sign	27.0	5.0	N/A
8	120" X 18" Sign	25.0	15.0	N/A
9	96" X 16" Sign 96" X 18" Sign 96" X 28" Sign	18.0 20.0 31.0	10.7 12.0 18.7	N/A N/A N/A

OL - Optically Limited
* Mounting Hardware Included

SECTION A-A



TYPICAL POST LOADING

MINIMUM DESIGN LOADING FOR POST AND MAST ARM ATTACHMENTS

Structural Design Requirements:

Structural supports shall be designed and fabricated to withstand their own loading and the attachment loading shown on this drawing or on the plans, whichever is greater. Structural members include posts, mast arms and luminaires bracket arms, as required.

Design of the structural supports shall be based on AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 1994 or latest revision with these exceptions.

Minimum Design Wind Speed of 90 MPH at 30 Feet Above Ground.
Group Loading:

Loads	Percent of Allowable Stress*
Group I - DL	100
Group II - DL + W	133
Group III - DL + Ice + 0.5(W**)	133

*No load reduction factors shall be applied in conjunction with these increased allowable stresses.

** W to be computed on the basis of the wind pressure formula. 25 PSF (1197 Pa) minimum for W for Group III.

Signal structures which will exceed the dimension limits shown shall be designed by a professional engineer*** based on AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 2001, 4th Edition, including any interim with the criteria noted below:

- Minimum Basic Wind Speed 90 MPH at 30 Feet Above Ground
- Fatigue Category I
- 50 Year Design Life.
- Shall not be specifically designed for truck induced wind gusts.
- Shall be specifically designed to resist periodic galloping forces.

***A set of shop drawings including weld procedure specifications and design computations shall be submitted for record and reference. The submitted drawings and calculations shall be signed and sealed by a professional engineer in accordance with the laws relating to architects and professional engineers (Chapter 327, RSMO) and shall include a title block or summary sheet which lists and certifies that the product meets all of the specified design criteria.

For Type B and BL posts. Ice and dead loading shall be based on the combined effect of design loading on each arm. Wind loading is applied as described in section 1.2.5(b) of the AASHTO Standard Specifications for Structural Supports, 1994 or latest version.

General Notes:

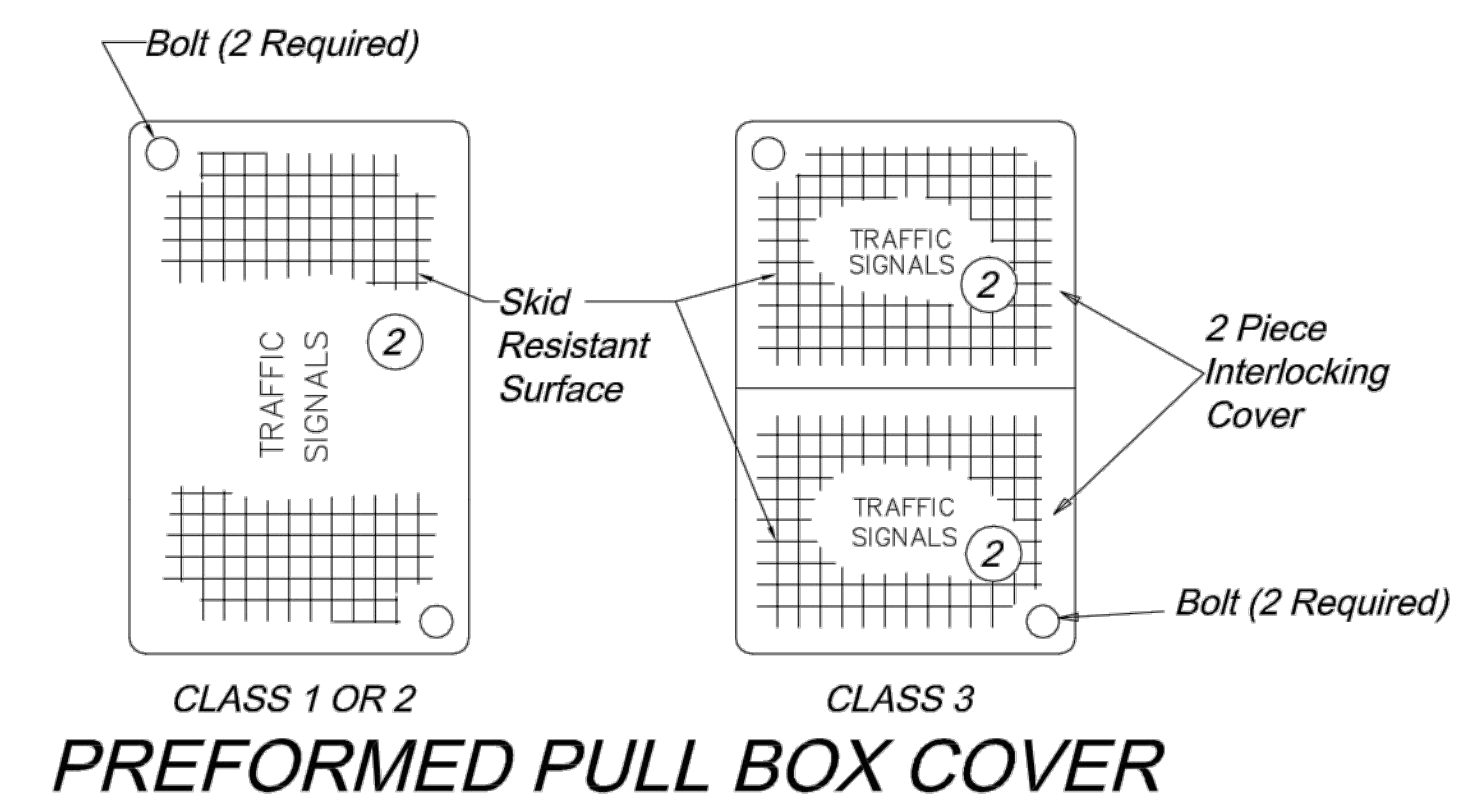
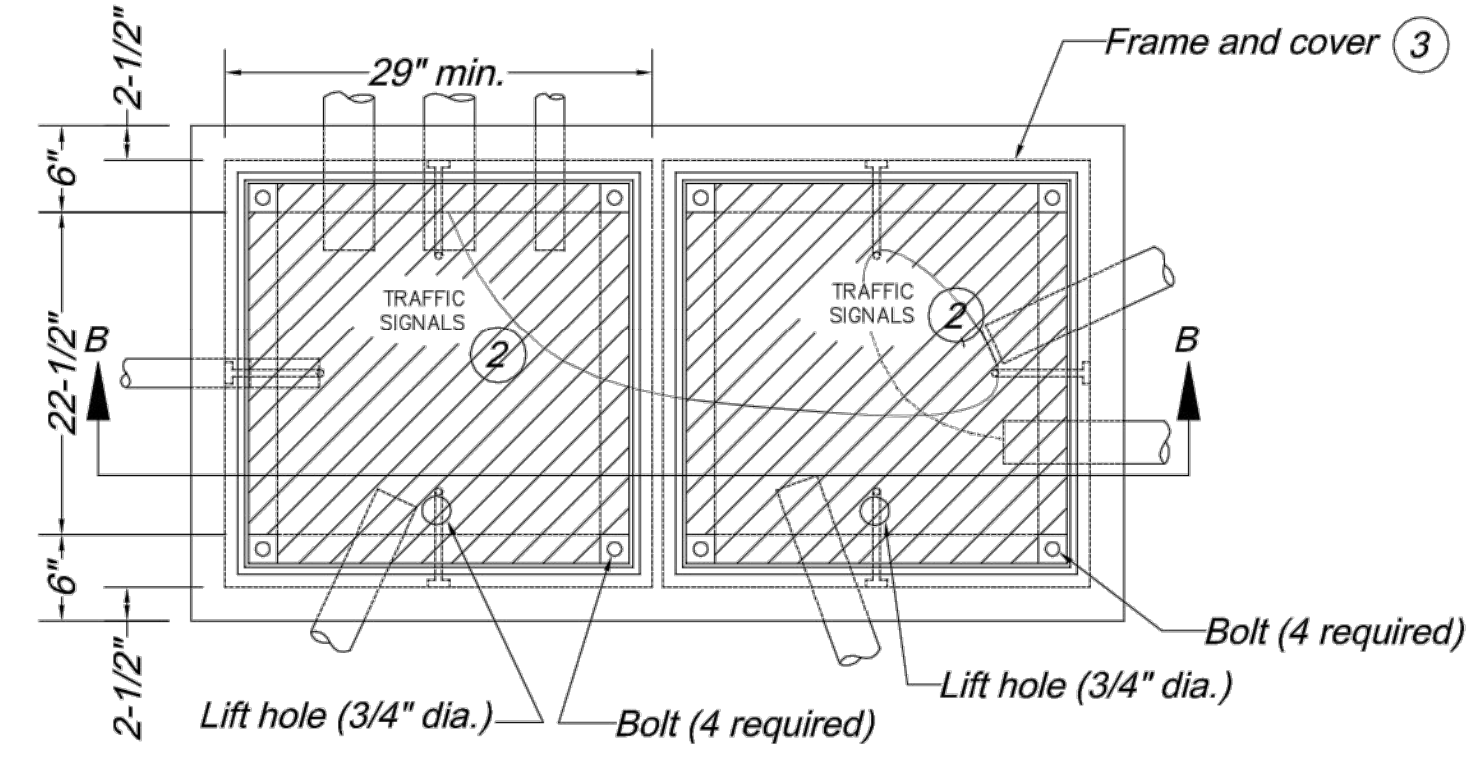
Attachment locations are for structural design purposes only. Actual locations are shown on the plans.

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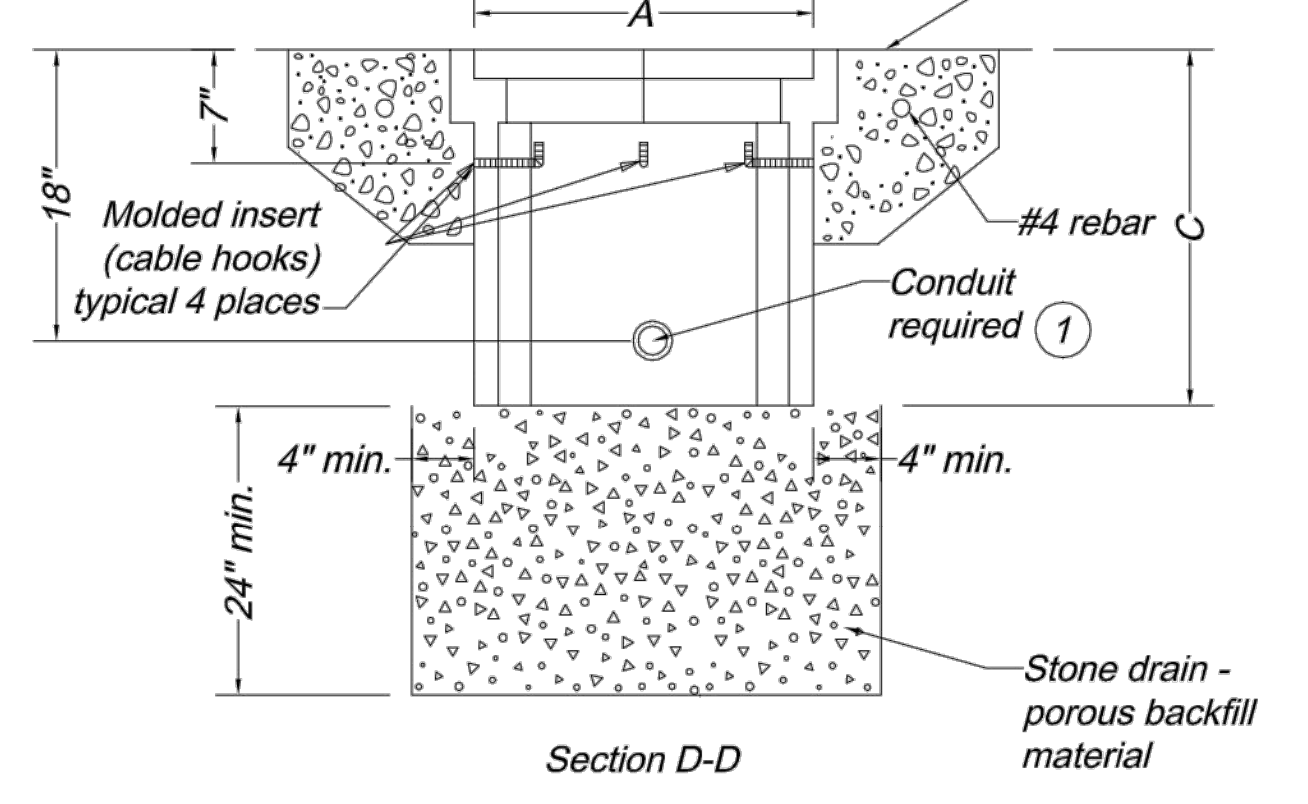
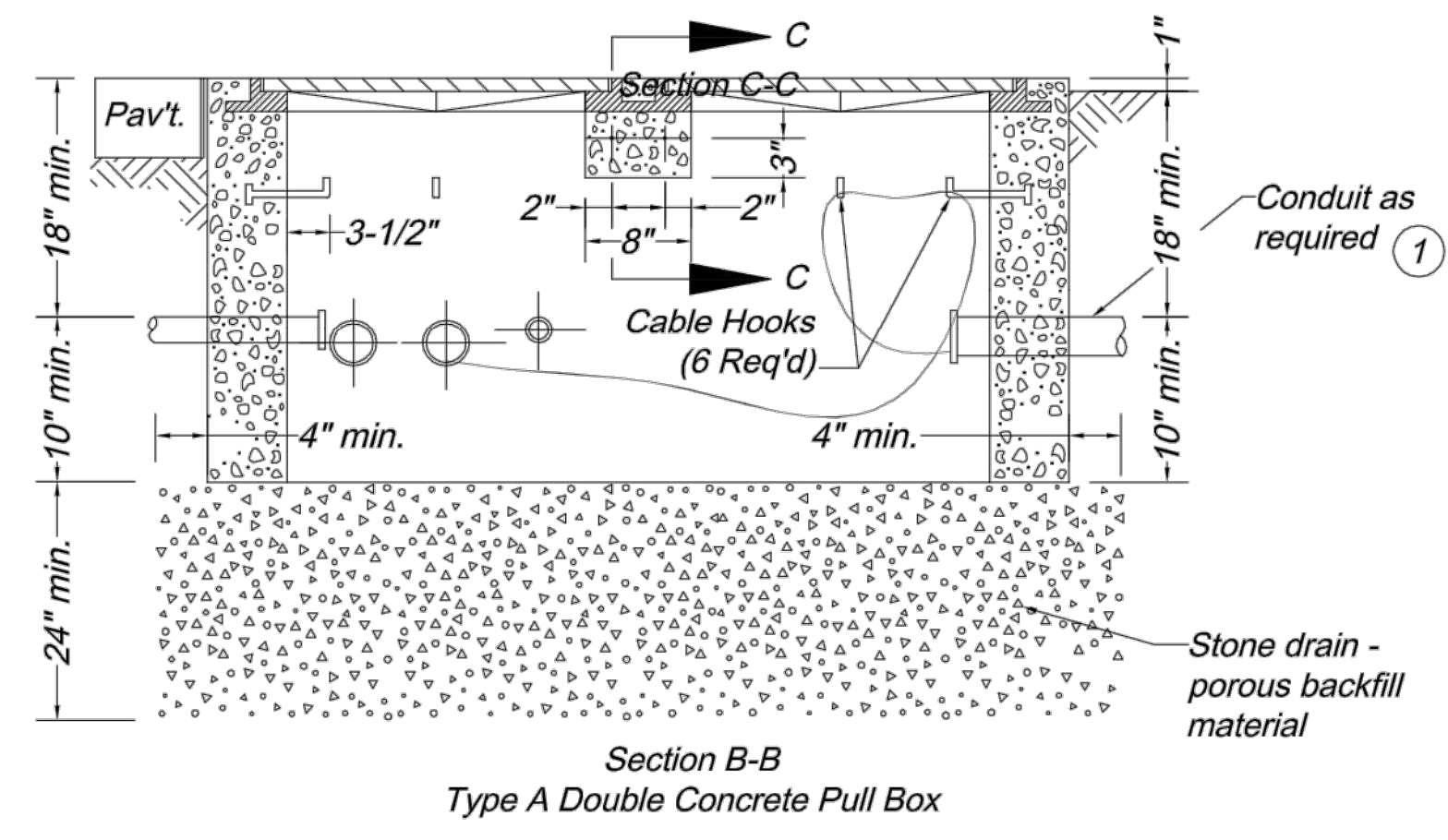
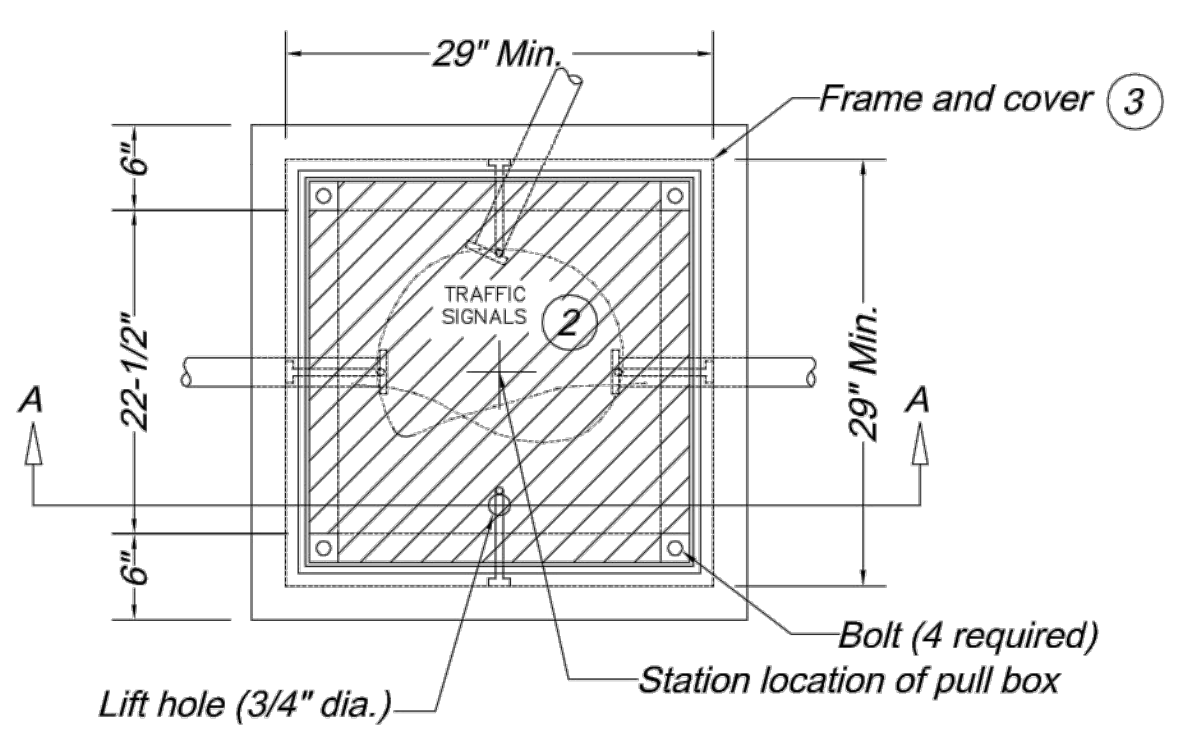
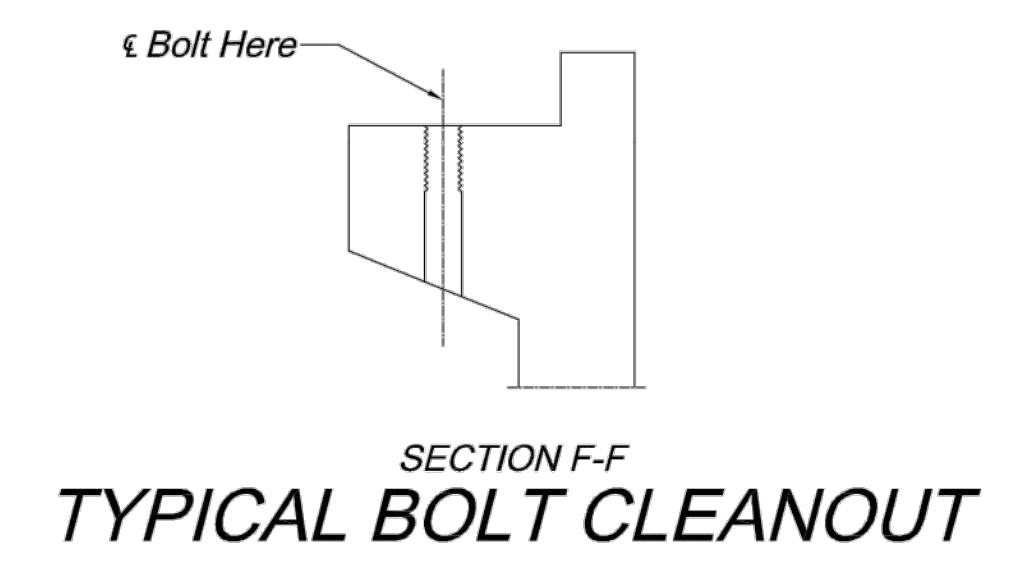
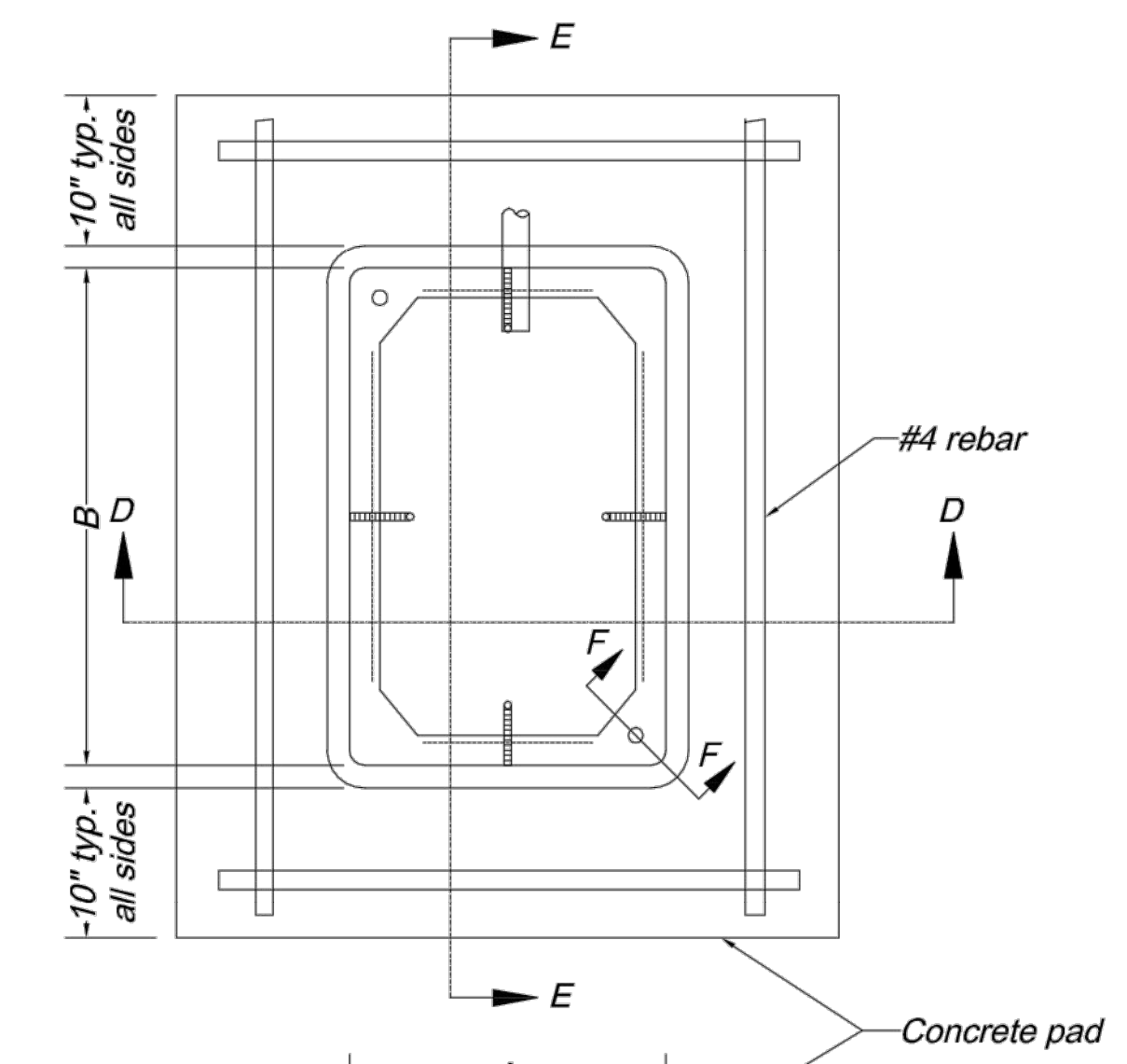
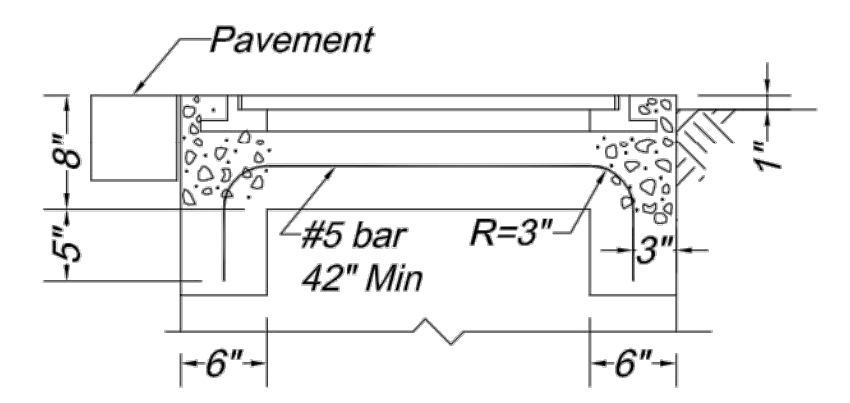


TUBULAR STEEL POST
DESIGN LOADING REQUIREMENTS
STANDARD DRAWING TS-5

Drawn By: AS
Checked By: MP
Date: 09/25/2009
Project#

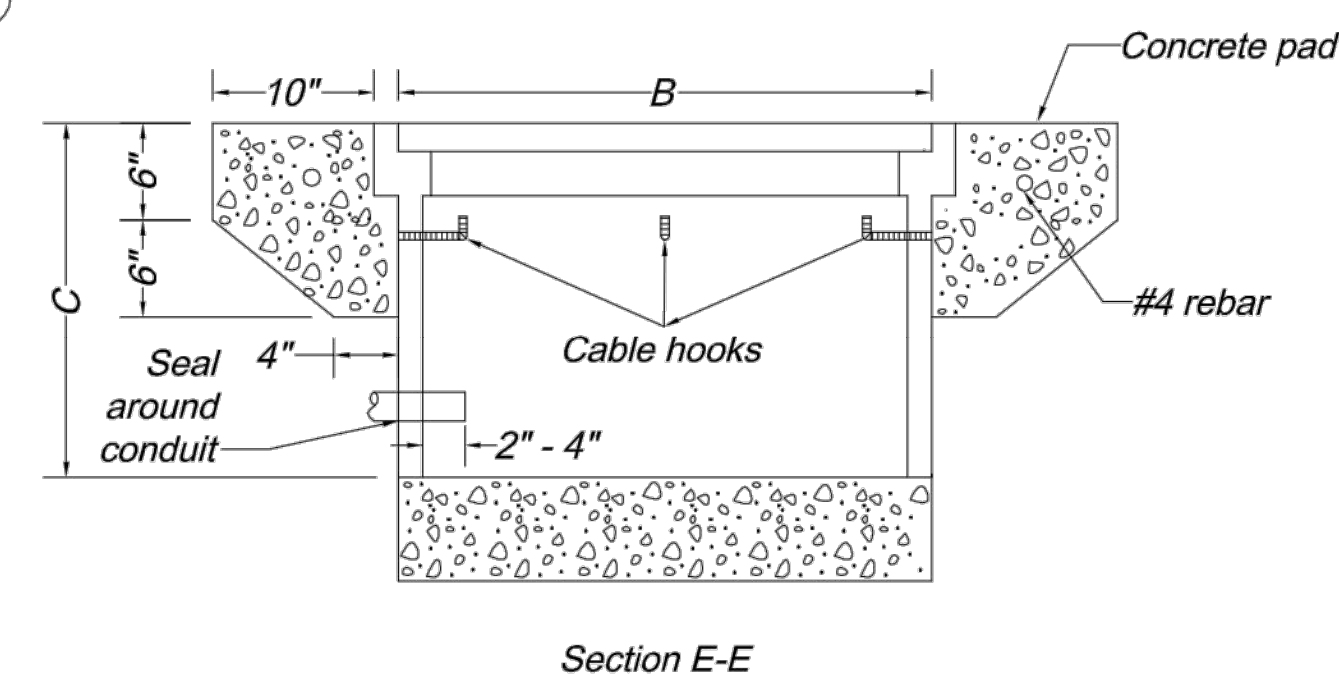
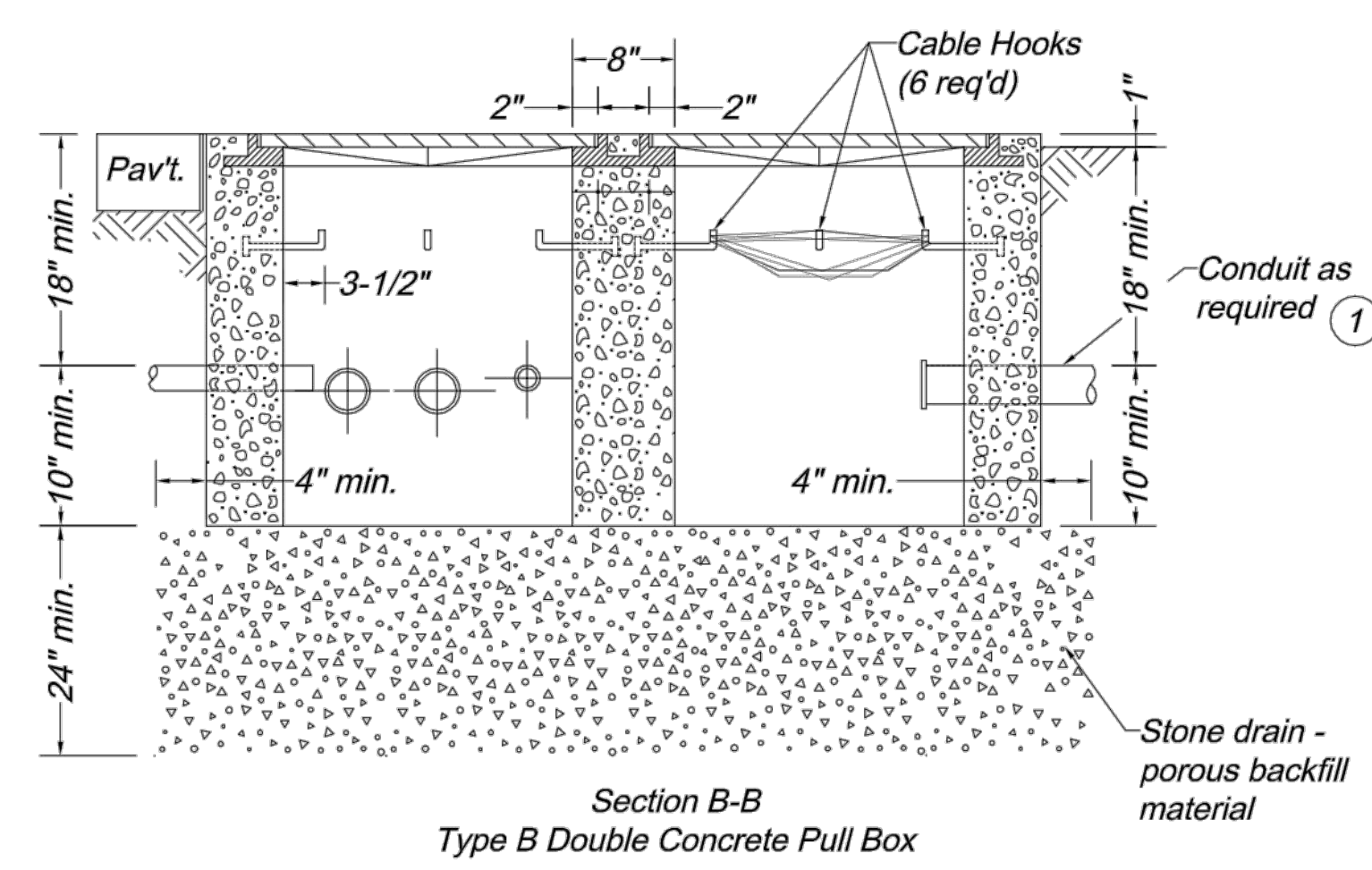
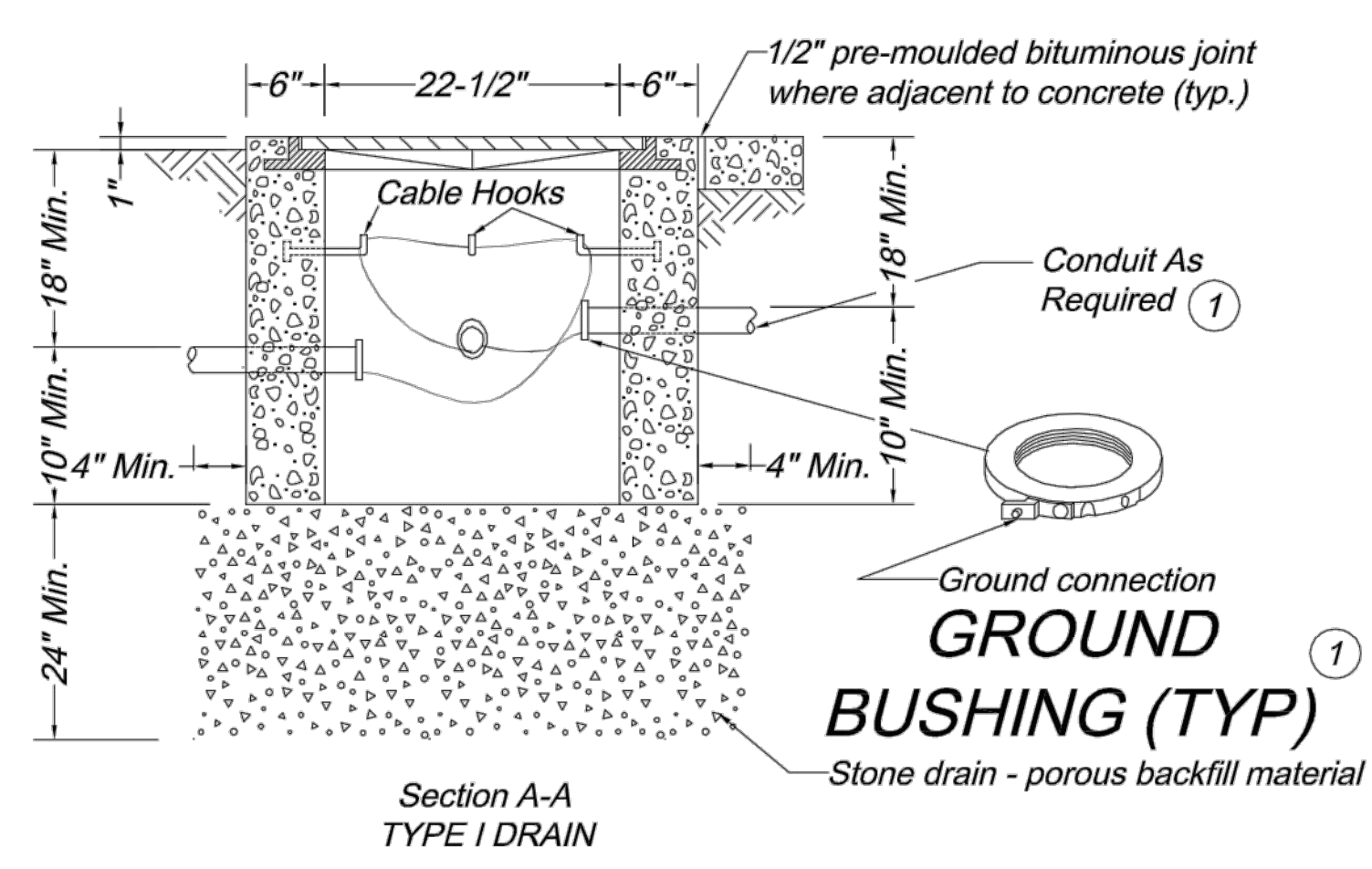


Number of Entering Conductors	Class	Preformed Pull Box Minimum Dimensions		
		A	B	C
< 23	1	17"	30"	20"
23 - 68	2	24"	36"	24"
> 68	3	30"	48"	24"



- All metal conduits shall be electrically bonded by a ground bushing and #6 AWG bare copper wire. For PVC, all ground wires shall be connected.
- Signal pull boxes shall be embossed "Traffic Signals."
- Pull box frames and covers shall be cast iron and the following minimum dimensions:
 - Frame Size: 29" x 29"
 - Opening Size: 22 1/2" x 22 1/2"
 - Frame Height: 4-1/4"
 - Frame Weight: 120 lbs.
 - Cover Size: 22-5/8" x 22-5/8"
 - Cover Thickness: 3/4"
 - Cover Weight: 140 lbs.

General Notes:
 All dimensions shown are nominal.
 Bolt cleanout detail shall be approved by the City Traffic Engineer.
 All concrete shall be 3,000 PSI minimum, and shall be subsidiary to the pull box.
 Pavement and subgrade shall be as shown on plans.
 Stone drain material shall be 1/2" - 3/4" clean rock.
 Lift opening required on all covers.
 Preformed box walls may be either flared or vertical.

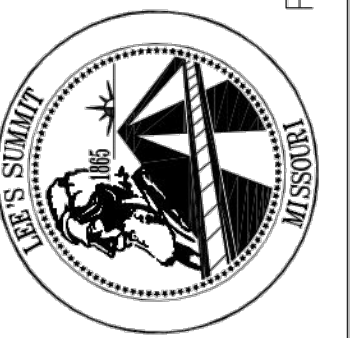


SINGLE CONCRETE PULL BOX

DOUBLE CONCRETE PULL BOX

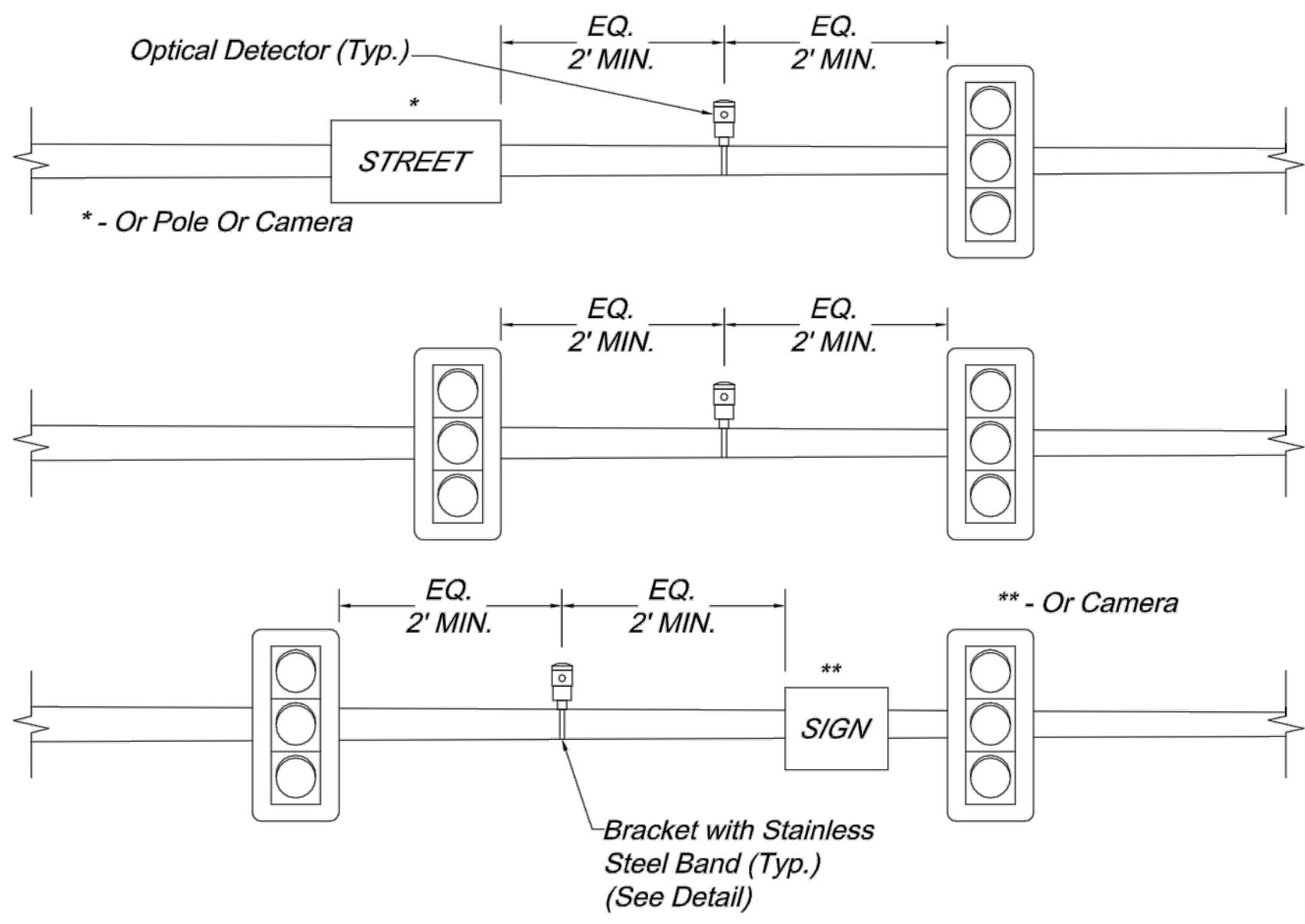
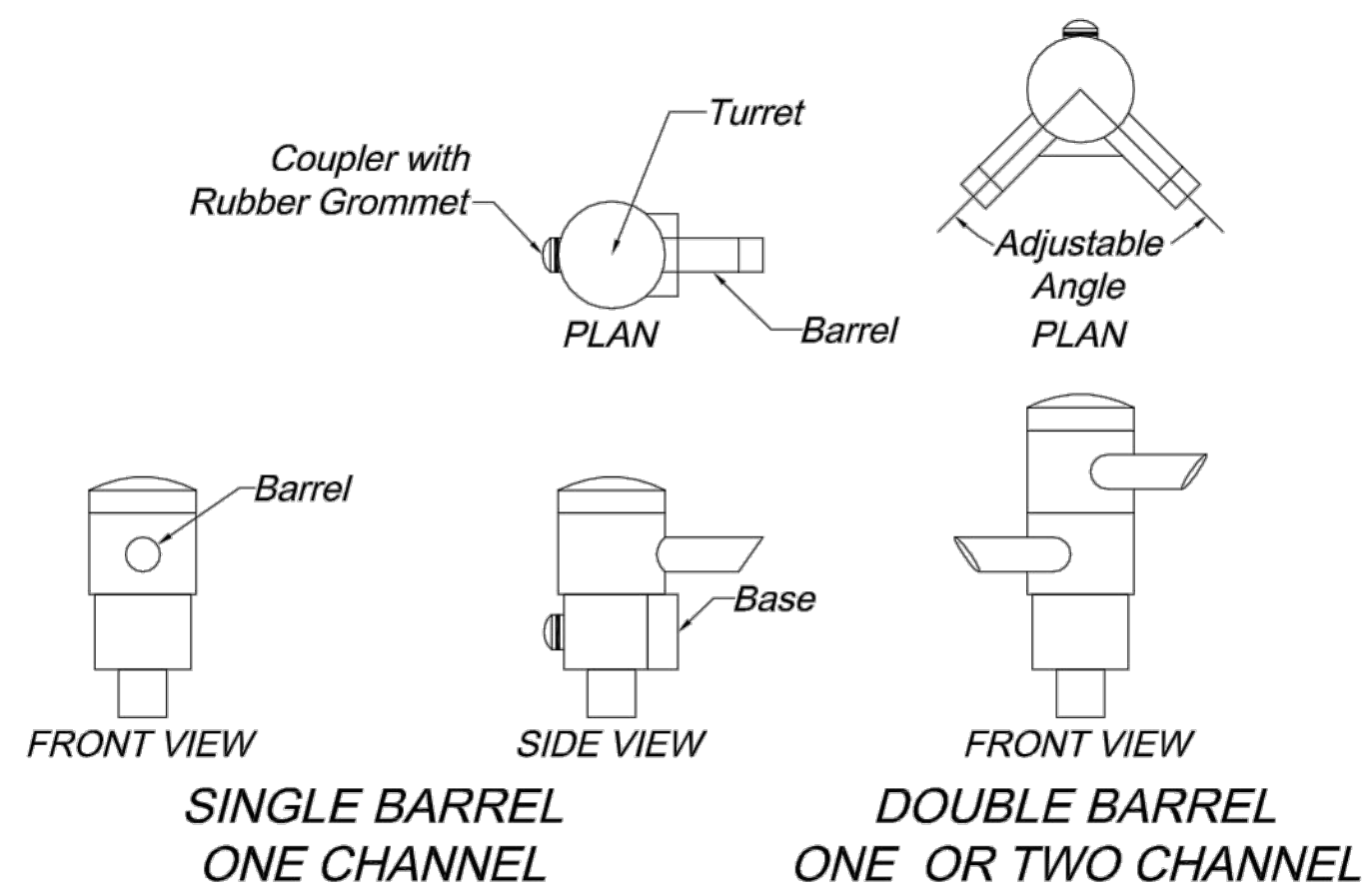
PREFORMED PULL BOX

CITY OF LEE'S SUMMIT
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 220 SE GREEN STREET
 LEE'S SUMMIT, MISSOURI 64063
 PHONE: (816) 969-1800 FAX: (816) 969-1809



PULL BOX DETAILS
 STANDARD DRAWING TS-6

Drawn By: AS
 Checked By: MP
 Date: 09/25/2009
 Project#



WHEN MULTIPLE DETECTOR UNITS ARE MOUNTED ON THE SAME MAST ARM, THEY SHALL BE SPACED APPROXIMATELY 12 INCHES APART.

Emergency Vehicle Detection Notes:

- The detector cable shall be continuous from the optical detector to the traffic signal controller. No splices shall be allowed.
- The contractor shall label the optical detector cable in all pull boxes by channels as indicated on the plans. This shall be accomplished with aluminum tags attached to the cable with aluminum wire. No direct payment shall be made for this work.
- Opticom shall be mounted inside the controller cabinet. Unless otherwise indicated on the plans, the placement of the optical detectors shall be centered between the signal heads and/or signal head and sign located on the mast arms. Further information on optical detector placement is shown in the details. The final placement of the optical detector may be adjusted for line of sight requirements.
- The equipment manufacturer shall be responsible for providing onsite technical assistance to the contractor in final placement of the optical detectors, as well as in all the aspects of the system installation.
- Preemption sequences and timings shall be developed by the equipment supplier. Timings shall be marked up on the timing sheets from the specific model of controller at each intersection and submitted for review by the City prior to implementation by the supplier. Pre-emption sequences shall use an all red interval or other methods to prevent the occurrence of "Yellow Traps" at intersections with protected/permitted left-turn phasing.
- Preempts are to be assigned as follows unless otherwise indicated in the plans:

Direction	Preempt No.	Channel
Northbound	1	A
Southbound	2	B
Eastbound	3	C
Westbound	4	D

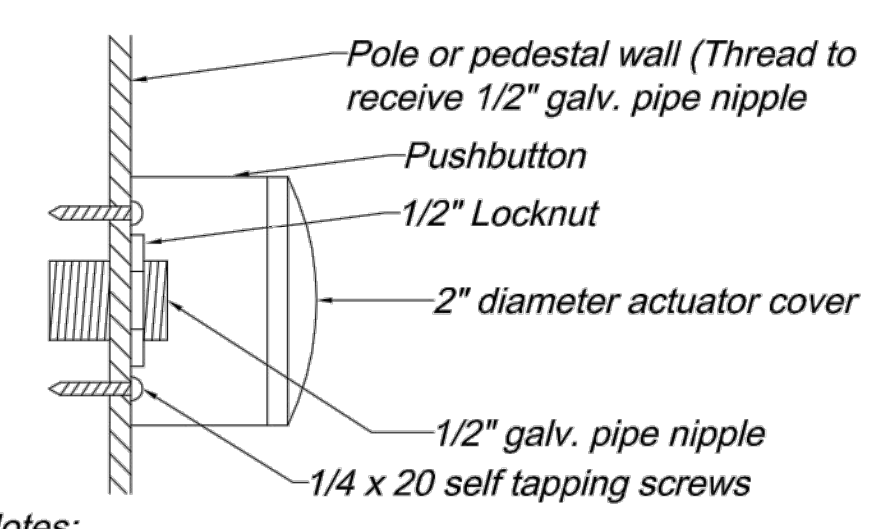
7. The Contractor shall install the equipment consistent with the equipment manufacturer's recommended installation procedures and interface diagrams in a neat and workmanlike manner. Emergency Vehicle Detection System shall be provided and installed by the contractor and shall consist of all detectors, processors, mounting brackets, etc for a fully operational system.

OPTICAL DETECTOR

Video Detection Notes:

- The video detection system shall consist of video camera(s), video detection processor (VDP), cables, brackets, and all other materials necessary for a fully functional system.
- The video detection system shall include software that detects vehicles in multiple lanes of each direction using only one video camera. Detection Zones (DZ) shall be defined using only a video menu and a pointing device to define and place zones on a video image. Up to 24 DZ per camera shall be available.
- The actual number and location of DZ shall be determined in the field by the City Traffic Engineer. The City reserves the right to have additional zones programmed or modify those shown based on the field programming period completed prior to turning on the signal.
- Video cameras are to be mounted as shown on the traffic signal plans. If the camera is mounted on a Type BL or CL pole, the camera shall be mounted directly to the luminaire bracket arm. If the camera is mounted on a Type B or C pole, the camera shall be mounted on the mast arm using a 6-foot riser.
- Video camera placement, adjustment, setup and initial programming shall be at the direction of the manufacturers representative. The manufacturers representative shall assist with identifying optical camera locations, system setup, programming, and turn-on.

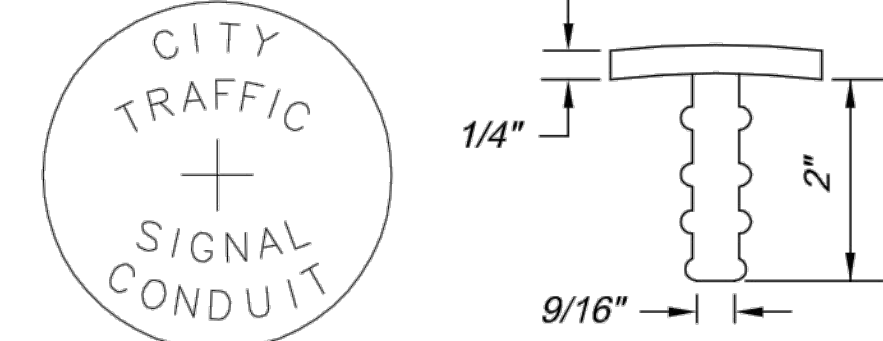
VIDEO DETECTION



Push Button Notes:

- Push buttons shall include 2 mounting brackets each and be of the type as noted in the plans.
- Push buttons shall be ADA approved and weatherproof, mounted in accordance with standard drawing TS-1.

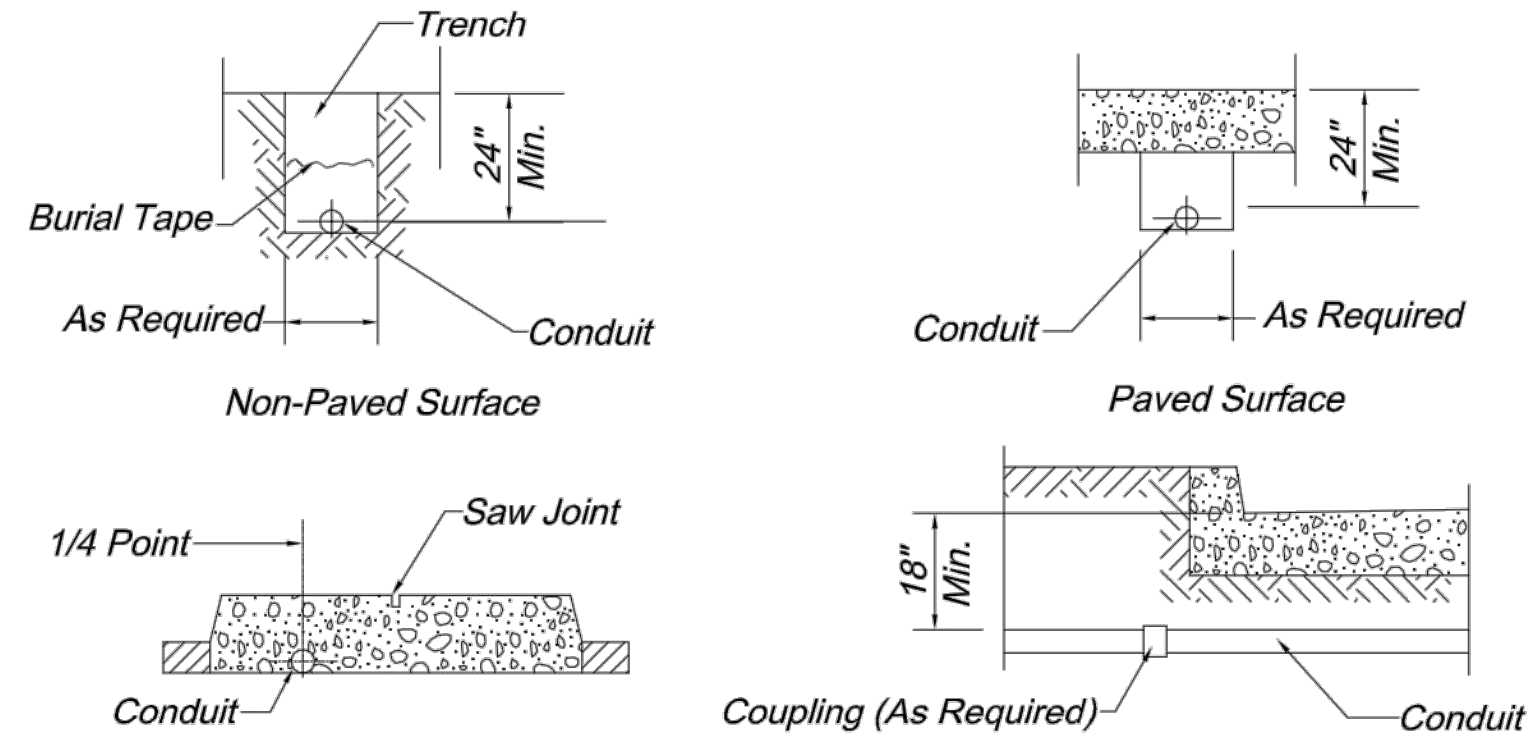
PUSH BUTTON MOUNT DETAIL



CONDUIT MARKER

Conduit Marker Notes:

- Wherever a conduit passes beneath a curbed street, aluminum conduit markers shall be installed in the curb immediately over the conduit location. Conduit markers shall be furnished by the contractor as detailed and shall be installed in the top of the curb by drilling the curb and epoxying the conduit marker in place. Conduit markers shall be flush with the curb. Conduit markers shall be subsidiary to conduit.

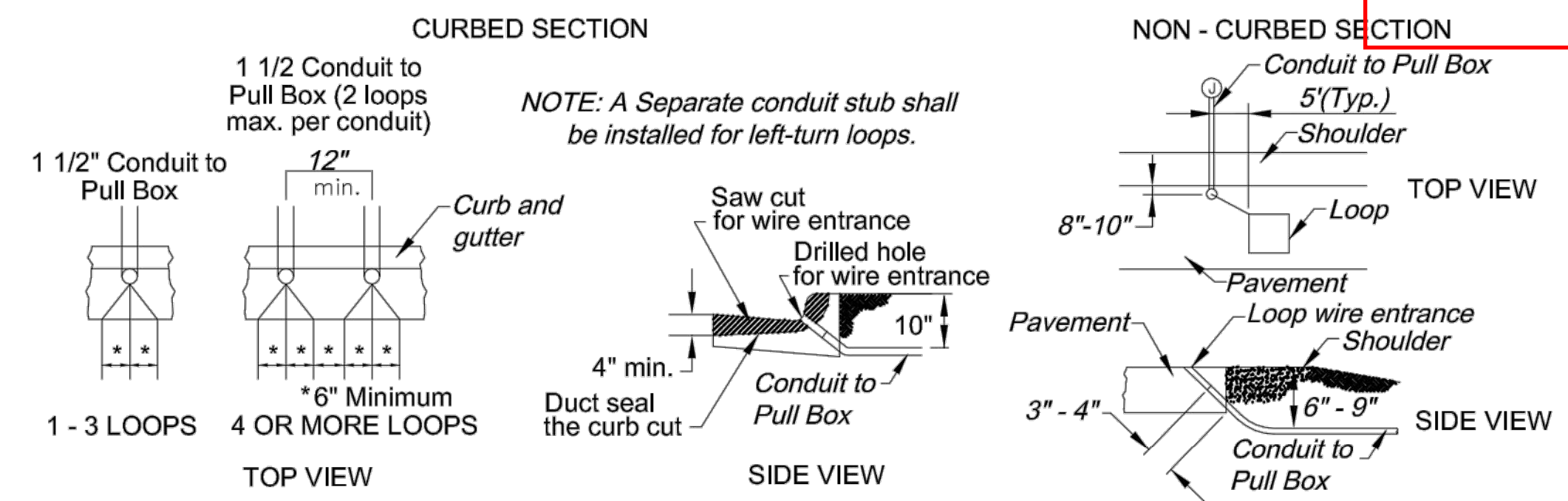


In Proposed Concrete Median On Existing Pavement 0.5% Minimum Slope

Conduit Location Notes:

- Conduit shall be installed to drain, and if metallic all ends shall be threaded and capped.
- The Contractor shall notify the City of Lee's Summit, Department of Public Works Traffic Division at (816) 969-1807 for inspection of the conduit installation. At least 24 hours notice shall be provided. The conduit shall not be covered unless inspected and approved by the Engineer or his authorized representative, so as to ensure proper depth, correct conduit material and proper conduit end treatment as described above.

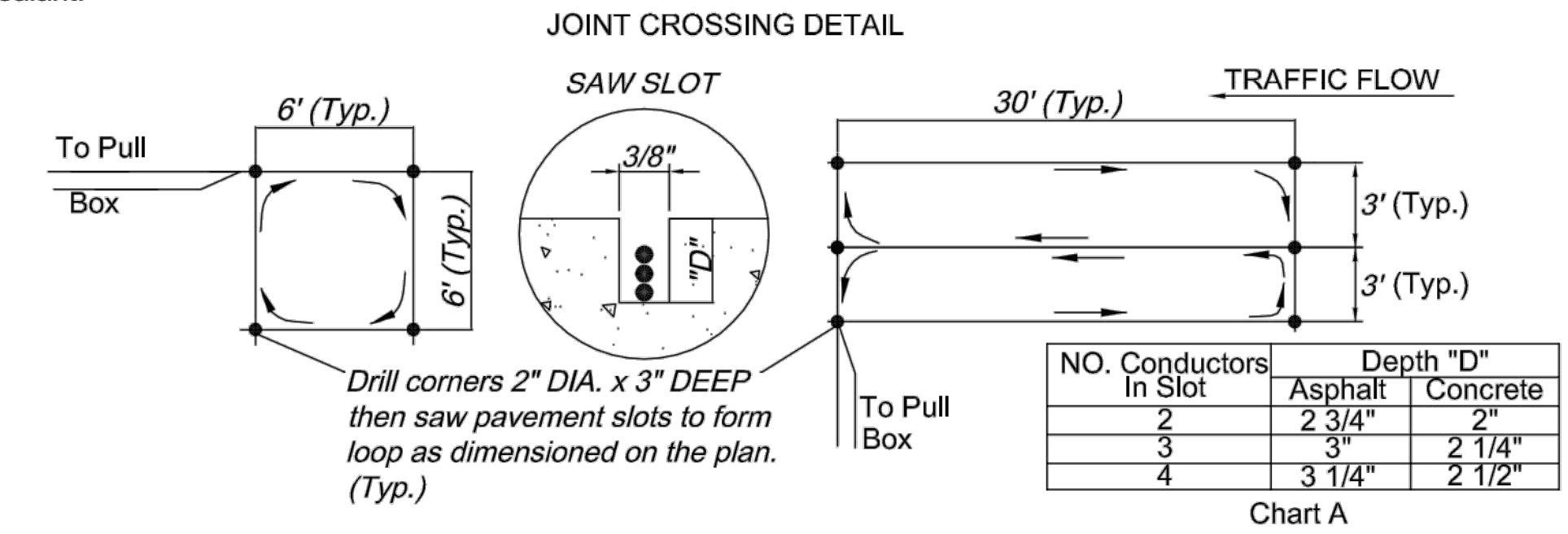
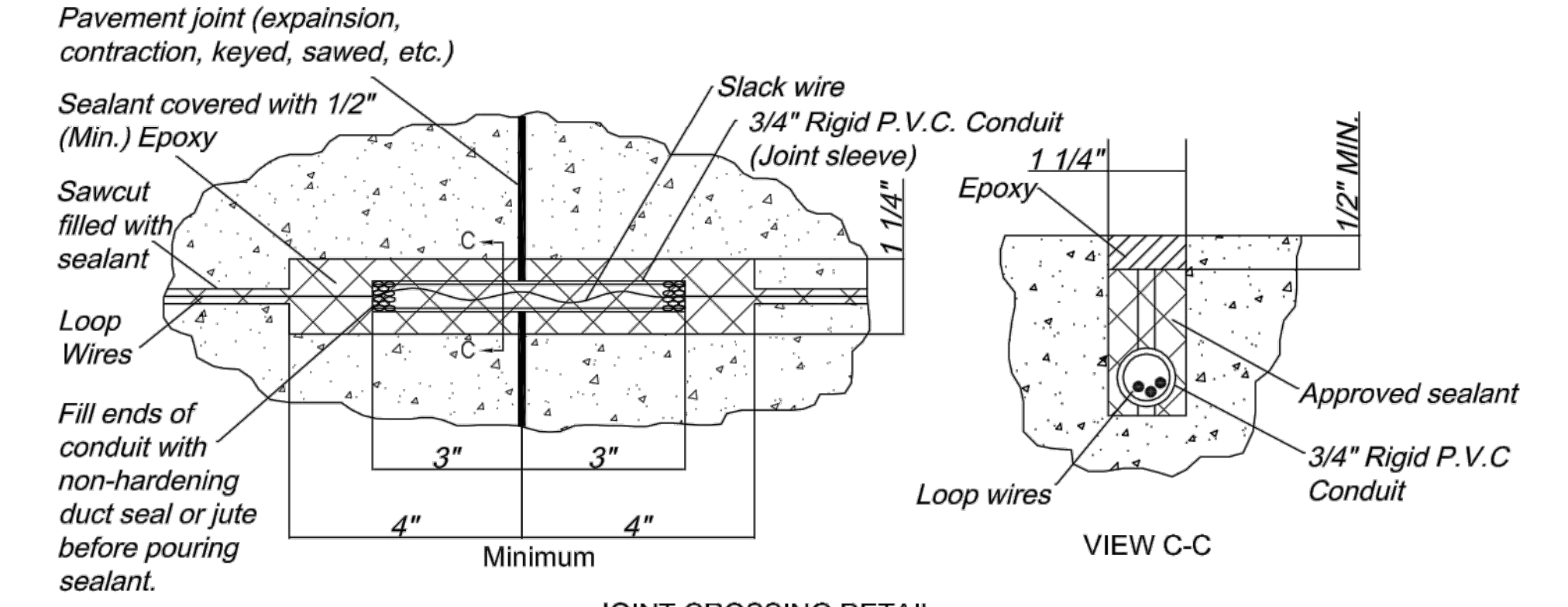
CONDUIT LOCATIONS



Loop Wire Entrance Notes:

- Saw cut in the curb and gutter section and conduit entrance to be sealed with a pliable, non-hardening duct sealant prior to application of loop sealant. No loop sealant shall be applied in the curb and gutter section or at conduit entrance.
- Grout around conduit inserted into curb or pavement section.
- Each loop shall have a separate lead-in-saw cut to the loop wire entrance in the curb or at the edge of pavement.

LOOP WIRE ENTRANCE DETAIL



NO. Conductors In Slot	Depth "D"	
	Asphalt	Concrete
2	2 3/4"	2"
3	3"	2 1/4"
4	3 1/4"	2 1/2"

Chart A

Loop Detection Notes:

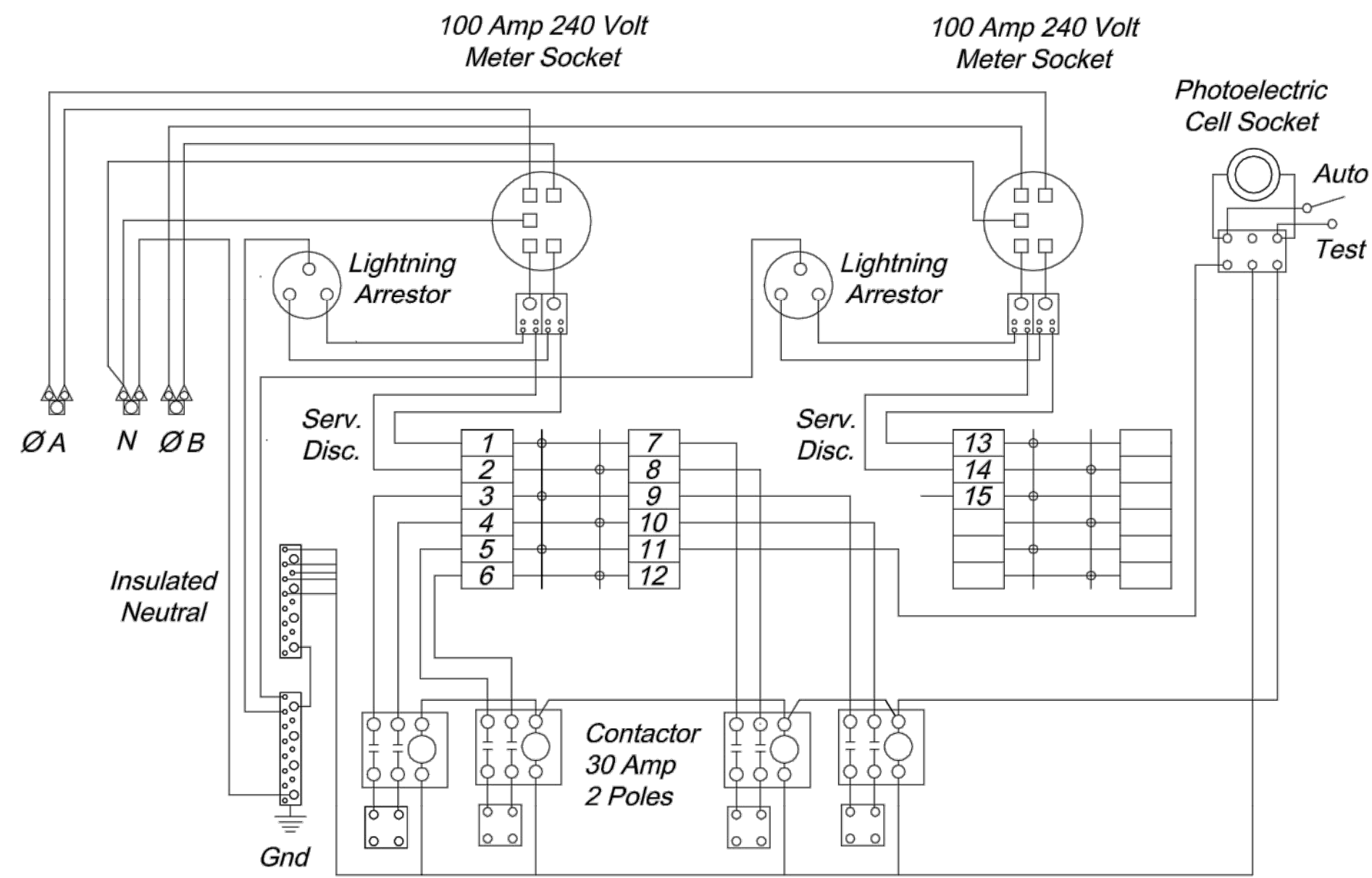
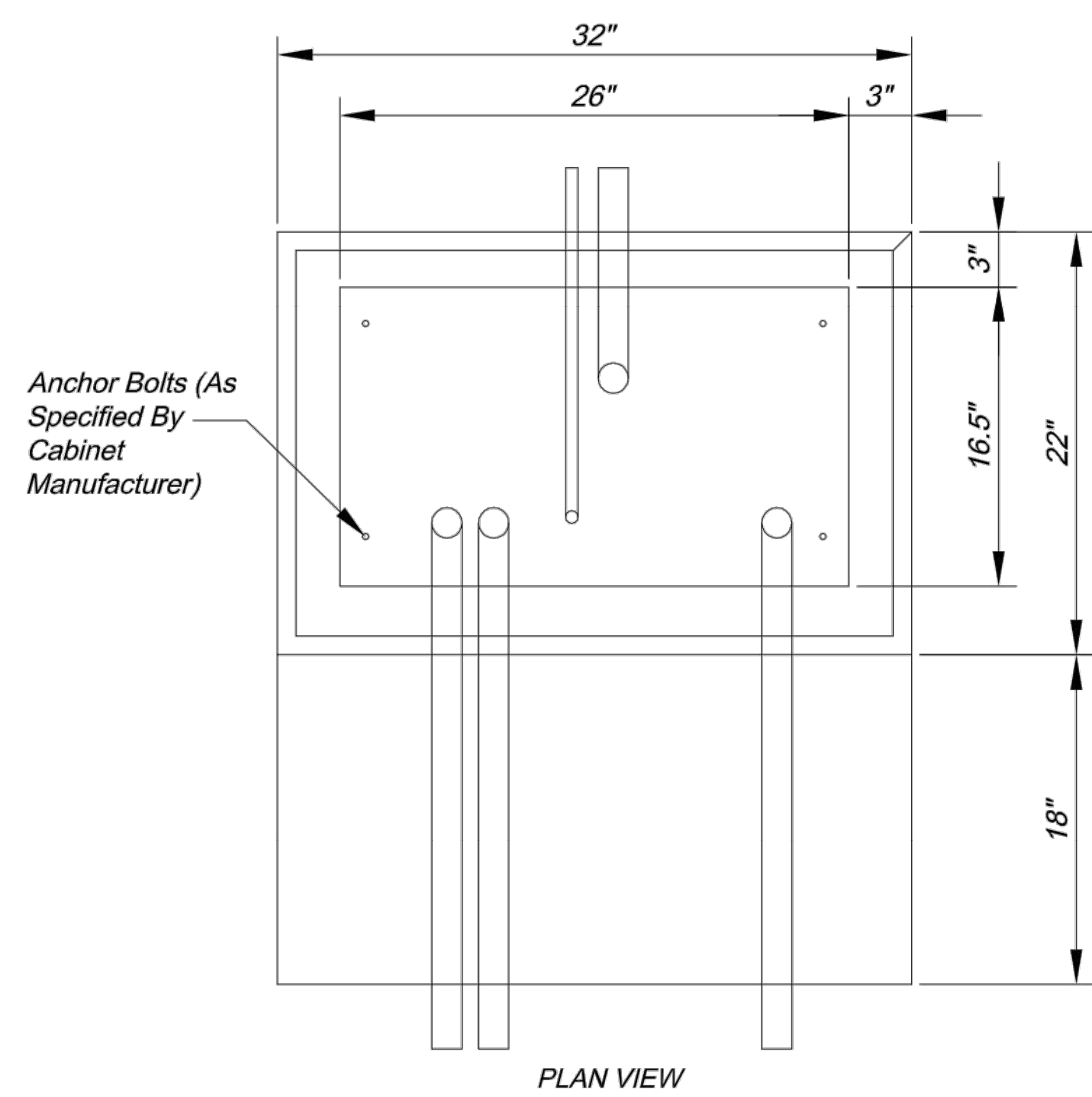
- Quadrapole loop to be one continuous wire placed in two turns. All loops to be wound in same direction, with start and end clearly marked at pull box.
- Transverse loop to be one continuous wire placed in three turns. All loops to be wound in same direction, with start and end clearly marked at pull box.
- Slot in pavement for loops to be cut 3/8 inch wide at minimum depth "D" as indicated in Chart A. Slot in pavement for lead shall be 1/2 inch wide at minimum depth "D". Fill slots with an approved asphalt sealer (asphalt pavement) or an approved elastic epoxy sealant (concrete pavement) to within 1/8 inch of pavement surface.
- Other than soldered type splice or splice made with wire nuts at their junction, feeder cable and loop wire shall be of continuous run with no splices. All connections to be watertight with approved splice kits. Watertight connections shall extend to and encompass each outer jacket of the detector feeder and loop wire cables.
- All leads for individual loops to be kept separate and loop wire between the loop and the feeder cable connection shall be twisted three turns per foot.
- All loops shall be wet cut with equipment approved by the City Traffic Engineer.
- Where loops are to be installed on projects involving either asphalt pavement construction or milling and overlay of an existing asphalt pavement, loops shall be installed in the base course prior to placement of the asphalt surface course.
- If existing loops are to be abandoned and new loop installed, abandoned loop wires shall be removed or cut completely through along all slots parallel to vehicle flow.
- Loops shall be #14 AWG stranded wire in pvc duct made up of 2 non-twisted turns in single slot or as recommended by manufacturer of the detector amplifier. Loop shall be placed in sawed slots in a figure eight manner with device which will not damage the wire insulation. Lead-in cable shall be 2-1c #14 AWG twisted.

LOOP DETECTION

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809

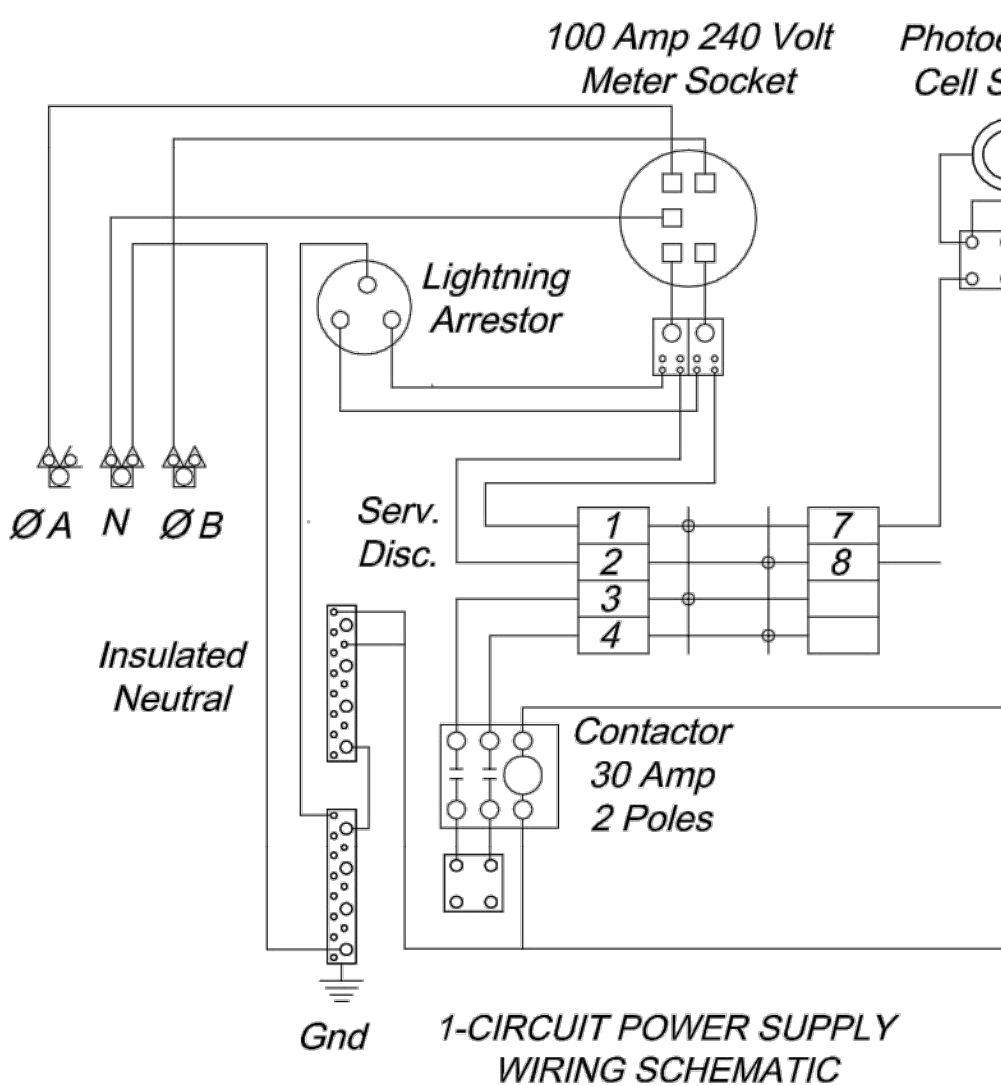
CONDUIT & DETECTION DETAILS
STANDARD DRAWING TS-7

Drawn By: AS
Checked By: MP
Date: 09/25/2009
Project#

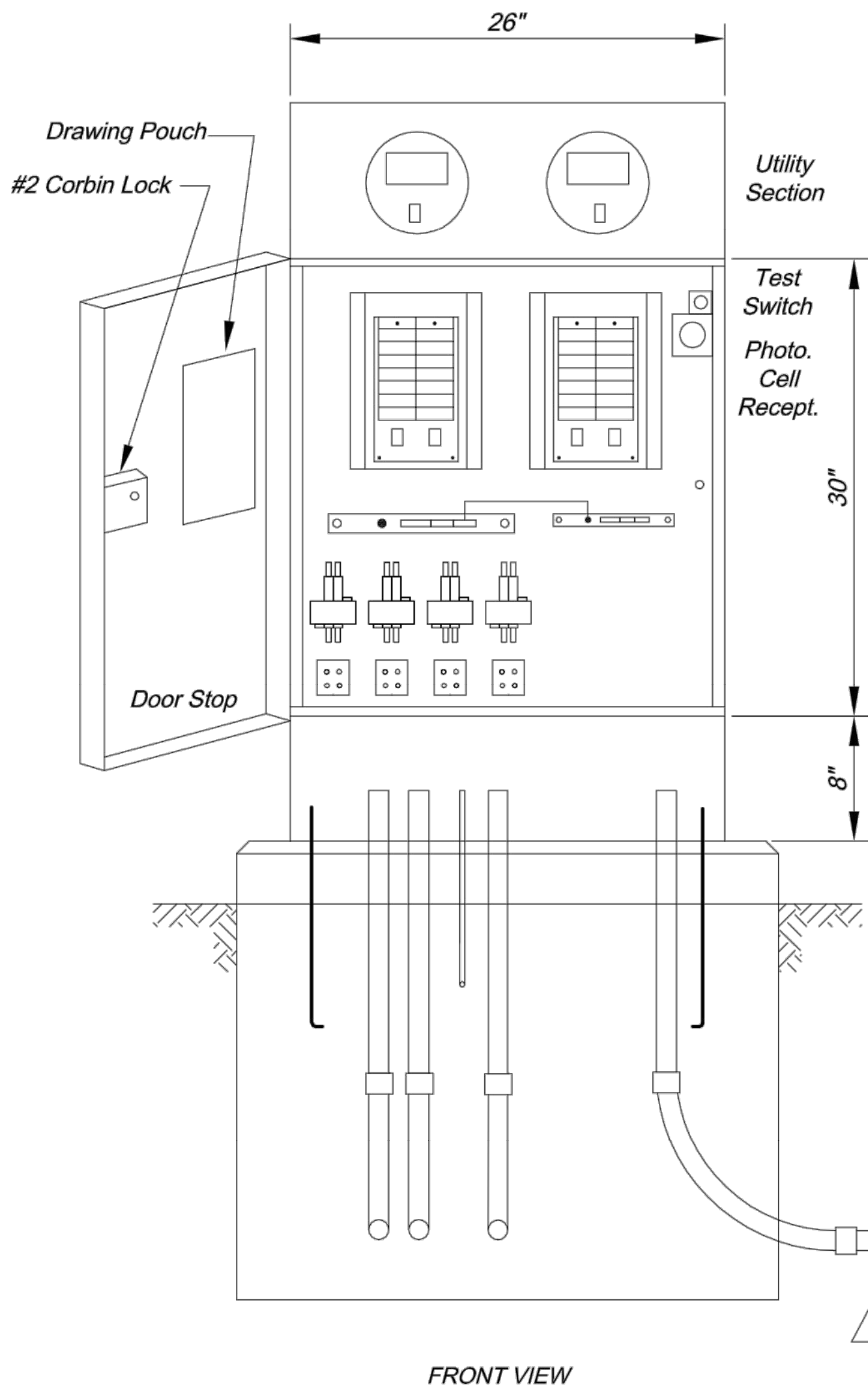
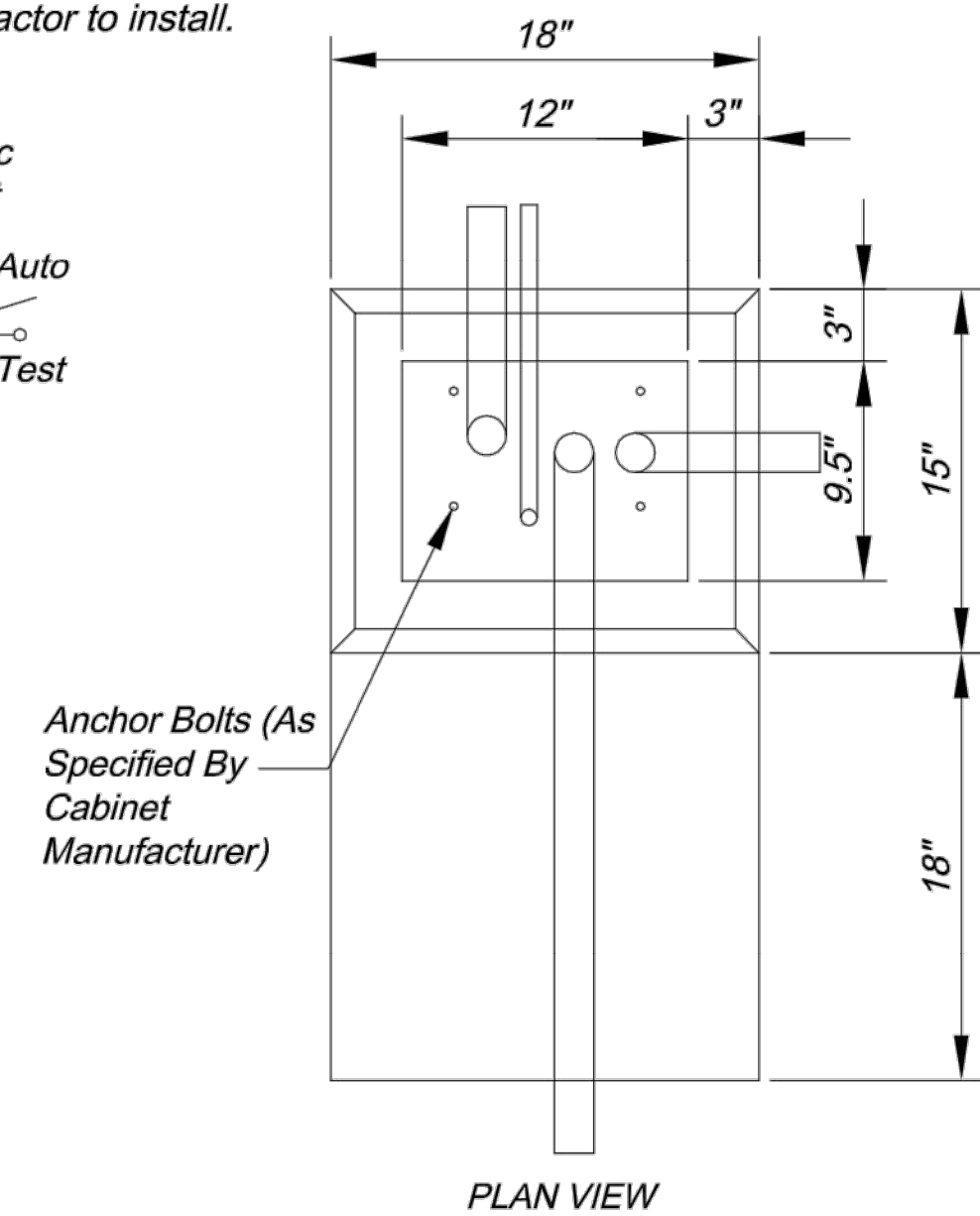


DUAL METER POWER SUPPLY WIRING SCHEMATIC

- NOTES:
1. Photoelectric cell should be oriented to the north or east.
 2. Seal around joint between cabinet and base with lifetime silicone caulk.
 3. All exposed edges of the base should have a 1" chamfer
 4. If base is adjacent to a traffic signal controller, raised portion of base (above finished grade) should be constructed to the same height as the signal controller base.
 5. The street address with the power supply number below it should be labeled on the upper portion of the cabinet facing the street. The City will supply stickers for the Contractor to install.

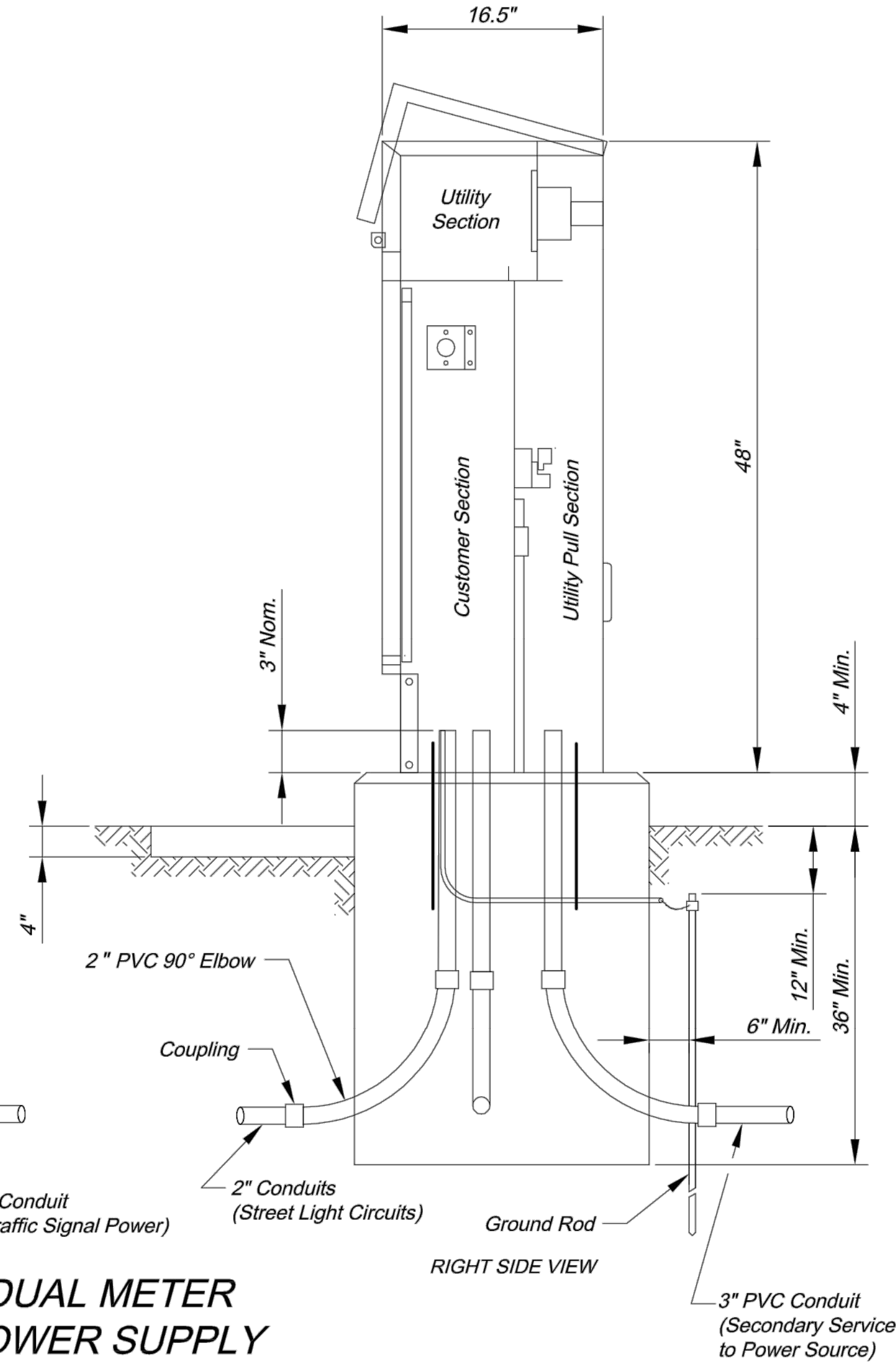


1-CIRCUIT POWER SUPPLY WIRING SCHEMATIC



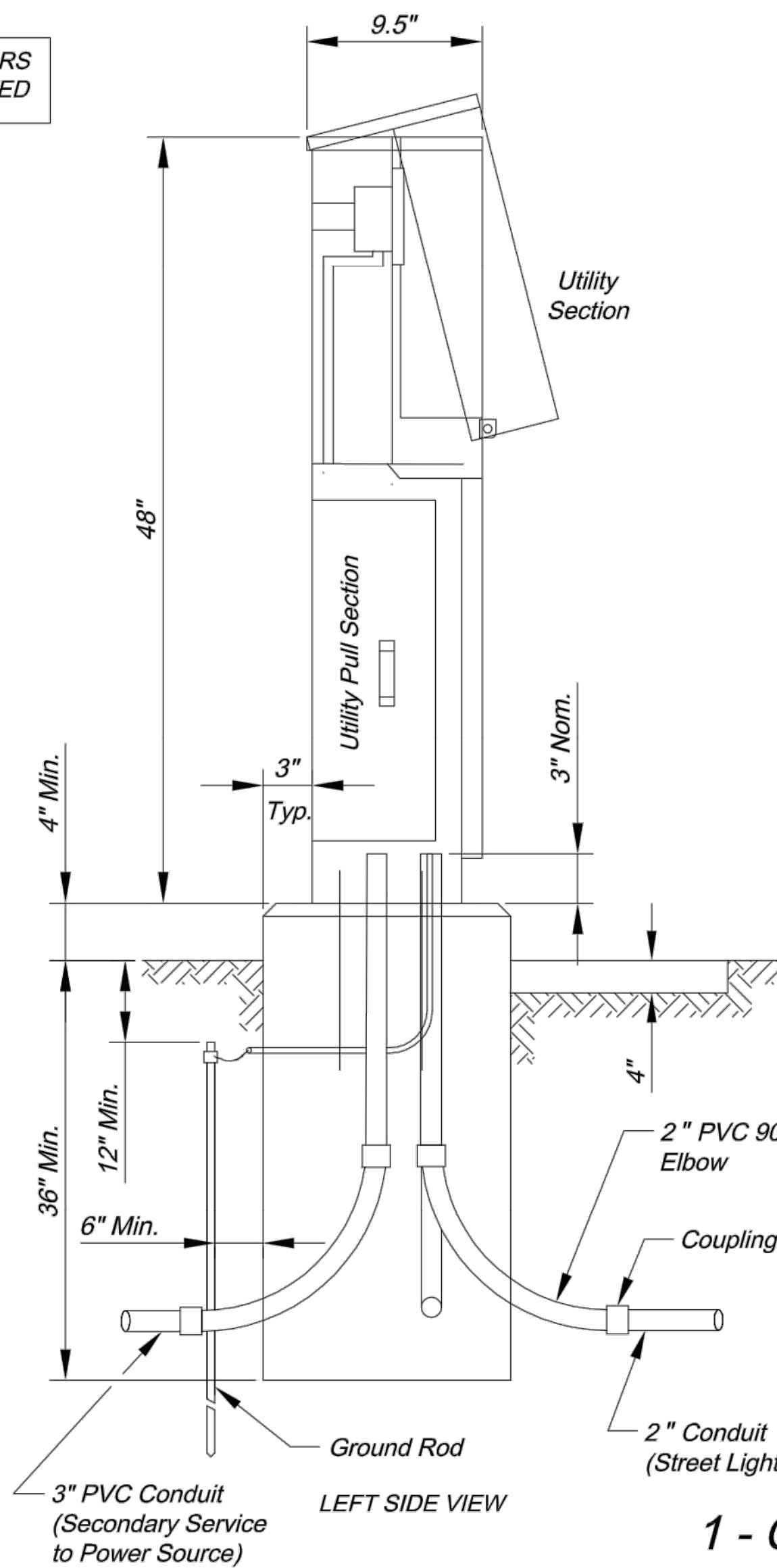
FRONT VIEW

DUAL METER POWER SUPPLY



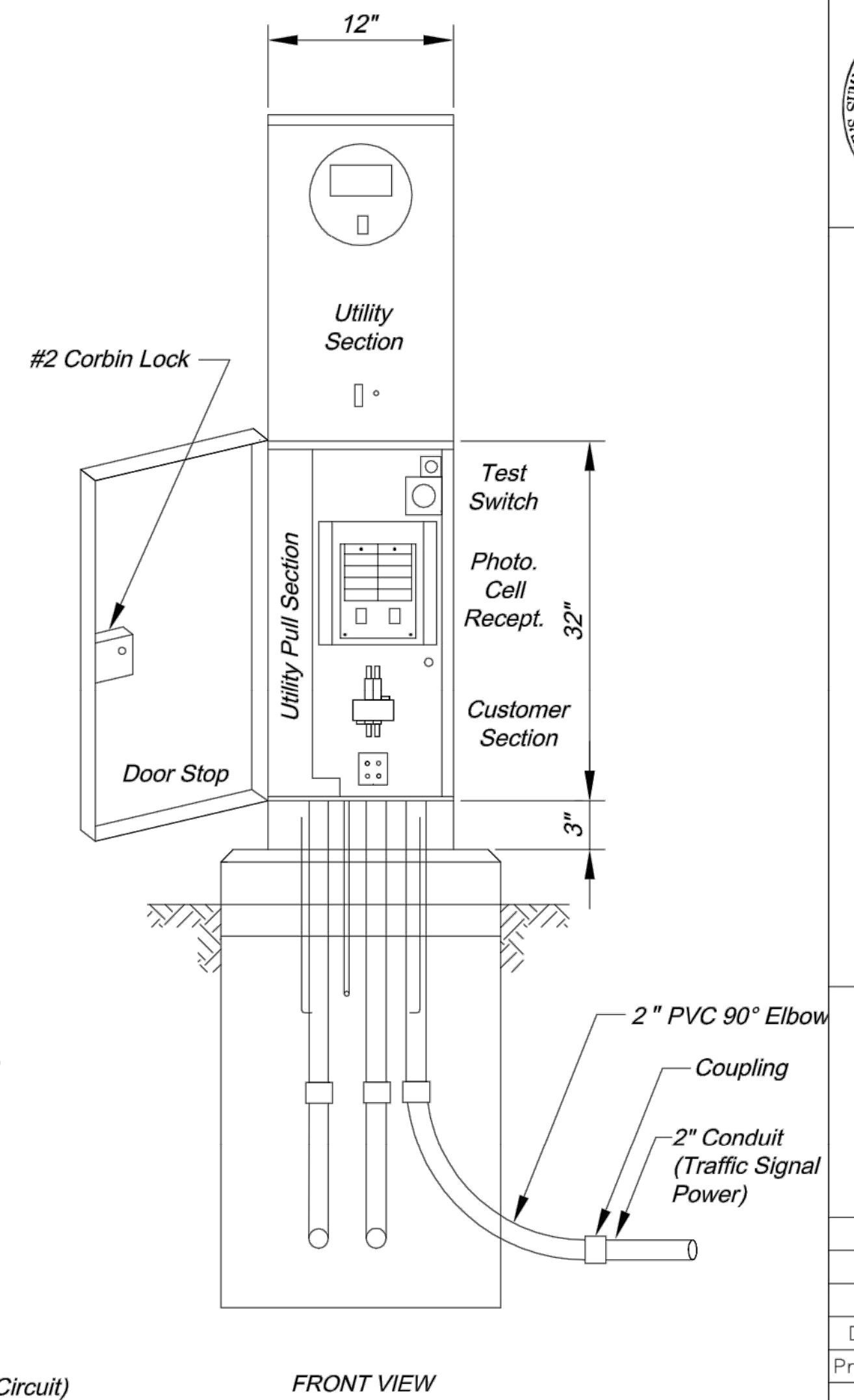
RIGHT SIDE VIEW

FUSED CONTACTORS ARE NOT PERMITTED



LEFT SIDE VIEW

1 - CIRCUIT POWER SUPPLY

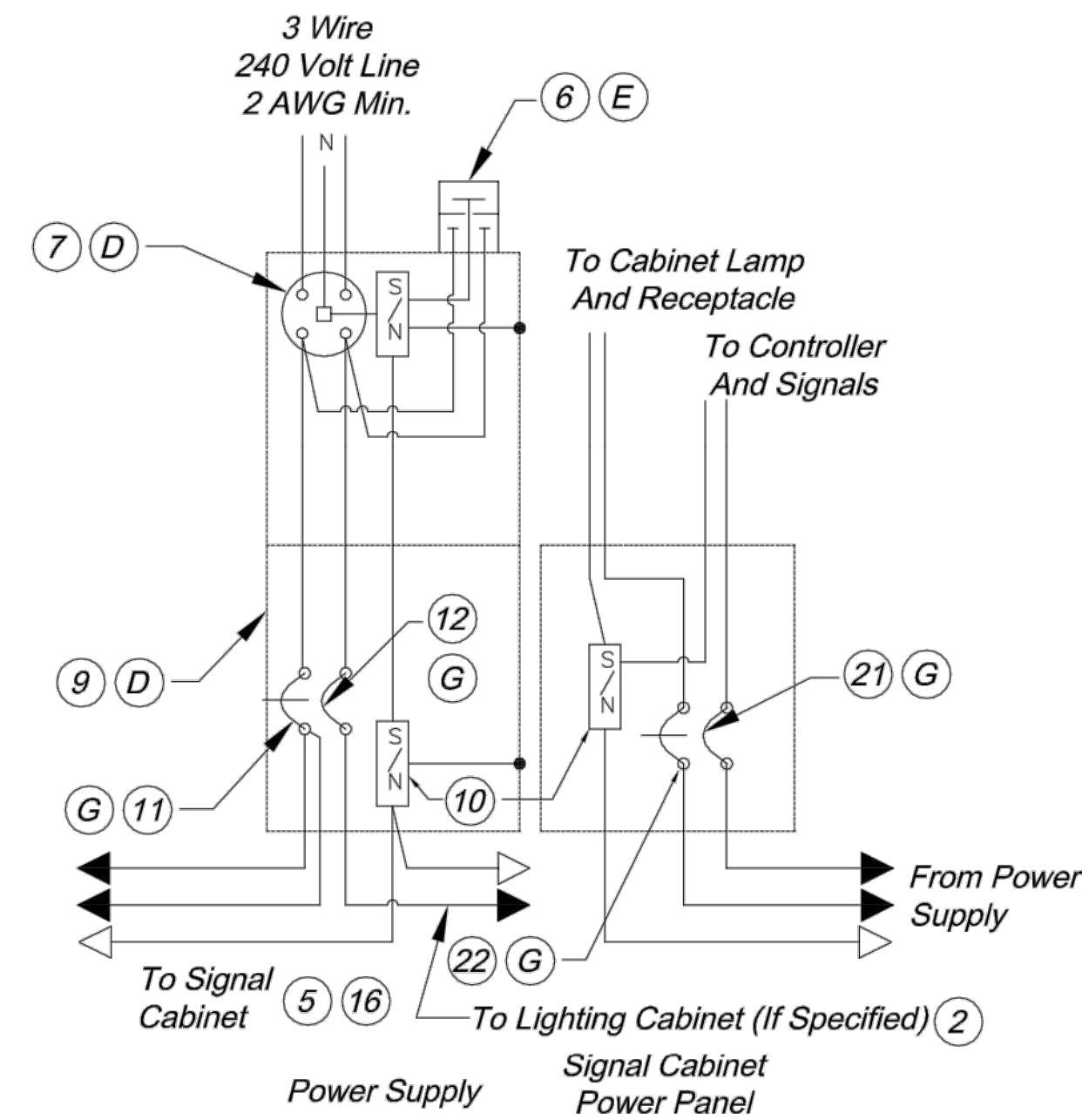


FRONT VIEW

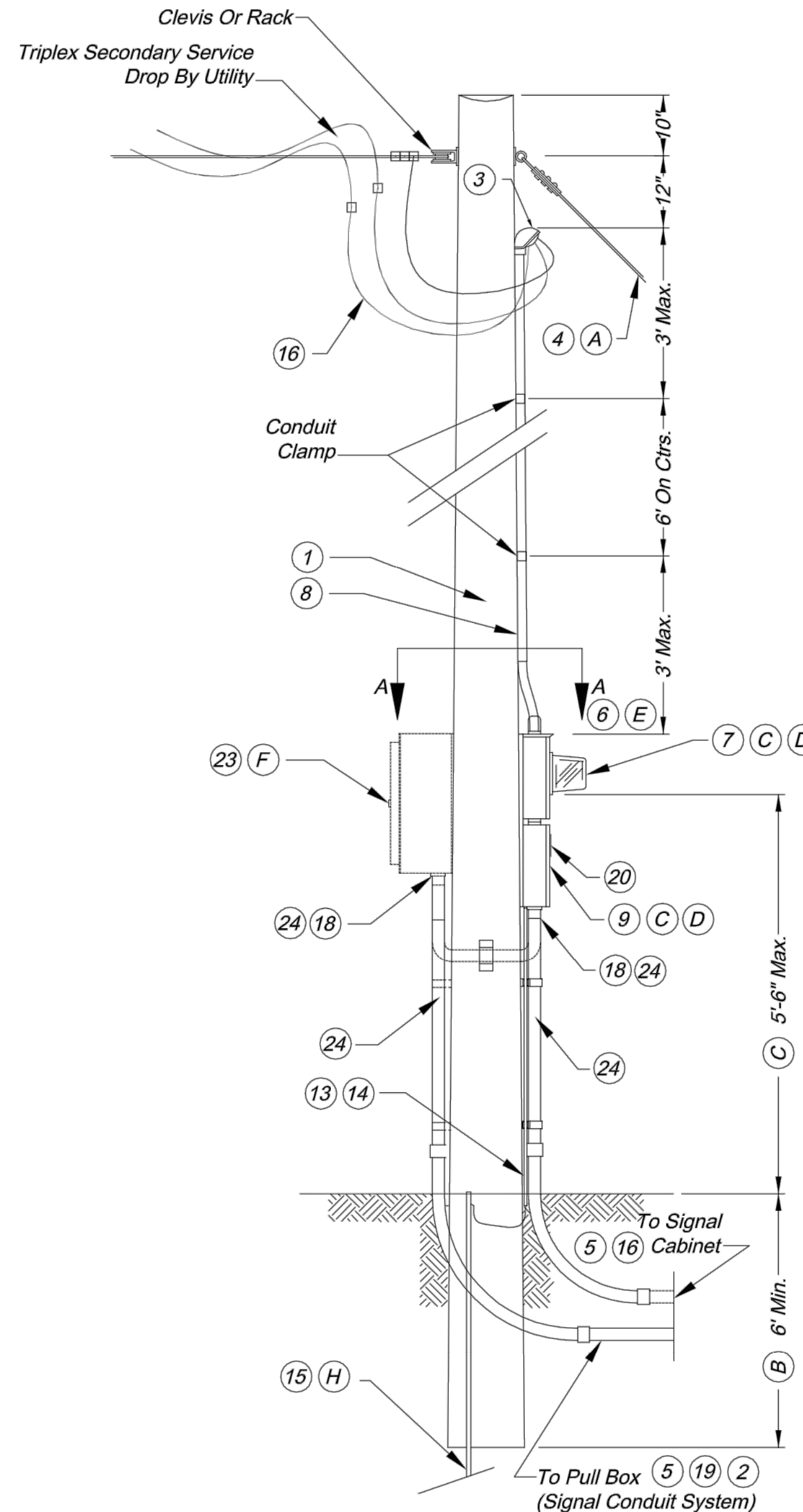
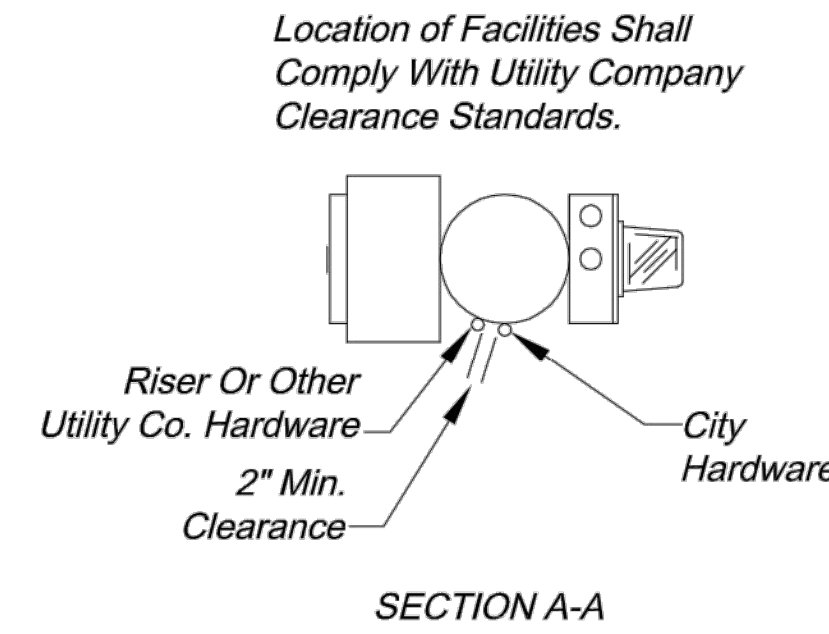
CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809

POWER SUPPLY ASSEMBLY
240/120 VOLT SERVICE
STANDARD DRAWING TS-8

Drawn By: AS
Checked By: MP
Date: 09/25/2009
Project#



OVERHEAD SERVICE POWER SUPPLY
WIRING SCHEMATIC
SIGNALS AND/OR LIGHTING



OVERHEAD SERVICE POWER SUPPLY
TEMPORARY SIGNAL ONLY

LIST OF MATERIALS	
Item	Description
1	Service pole 30' min., Class IV wood, Contractor provided, City owned. *
2	#8 AWG Min. Cable, 600 volt *
3	Service entrance head
4	Guy cable, as required
5	2" min. rigid conduit with preformed elbows
6	Lightning arrester, Valve type, 2 pole, 650 volt
7	240 volt Meter socket, 100 amp for signals
8	2" min. rigid conduit
9	Service disconnect box, Locking, Raintight, NEMA 4
10	Insulated, Groundable neutral, 200 amp minimum
11	Signal breaker, Single pole, 40 amp min., Type A or B
12	Lighting breaker, Single pole, 40 amp, Type A or B
13	Metal conduit, 1/2"
14	Ground wire, #2 AWG min.
15	Ground rod, 3/4" x 8' min.
16	#2 AWG min. cable, 600 volt
17	Reserved
18	Threaded conduit hub with sealing washers
19	Lighting cables *
20	Weatherproof adhesive label (signals) vinyl raised lettering
21	Type B controller and signal breaker, as specified.
22	Type B auxiliary breaker, 15 amp
23	Lighting control cabinet
24	2" Steel Conduit (minimum)
* See plans	

Notes

- (A) Service pole shall be guyed when span of overhead wire exceeds 50'.
- (B) Increase 1 foot for each 5 feet above 50 feet.
- (C) Service disconnect boxes and meter boxes shall be aluminum or stainless steel. All hardware, hinges, catches, etc. shall be stainless steel. Meter socket and other equipment shall be U.L. approved, and conform to the requirements of the utility company providing power.
- (D) Schematic diagram shall be mounted on inside of door.
- (E) Utility company shall decide if lightning arresters are to be connected on the load or line side of the meter. The utility company shall also decide if the lightning arrester is terminated in the meter or disconnect cabinet. If terminated in the disconnect cabinet, it shall be installed on the connect cabinet.
- (F) If lighting is specified, install lighting control on power supply.
- (G) Breakers shall conform to the standard specifications.
- (H) If subsurface conditions exist which prohibit the placement of the ground rod in vertical position, the rod may be driven at an oblique angle not to exceed 45 degrees from vertical or buried in a trench at least 30 in. deep. Connection to ground rod shall be clamp type as detailed on standard drawing TS-2.

General Notes:

For cable types and installation. See standard specifications.

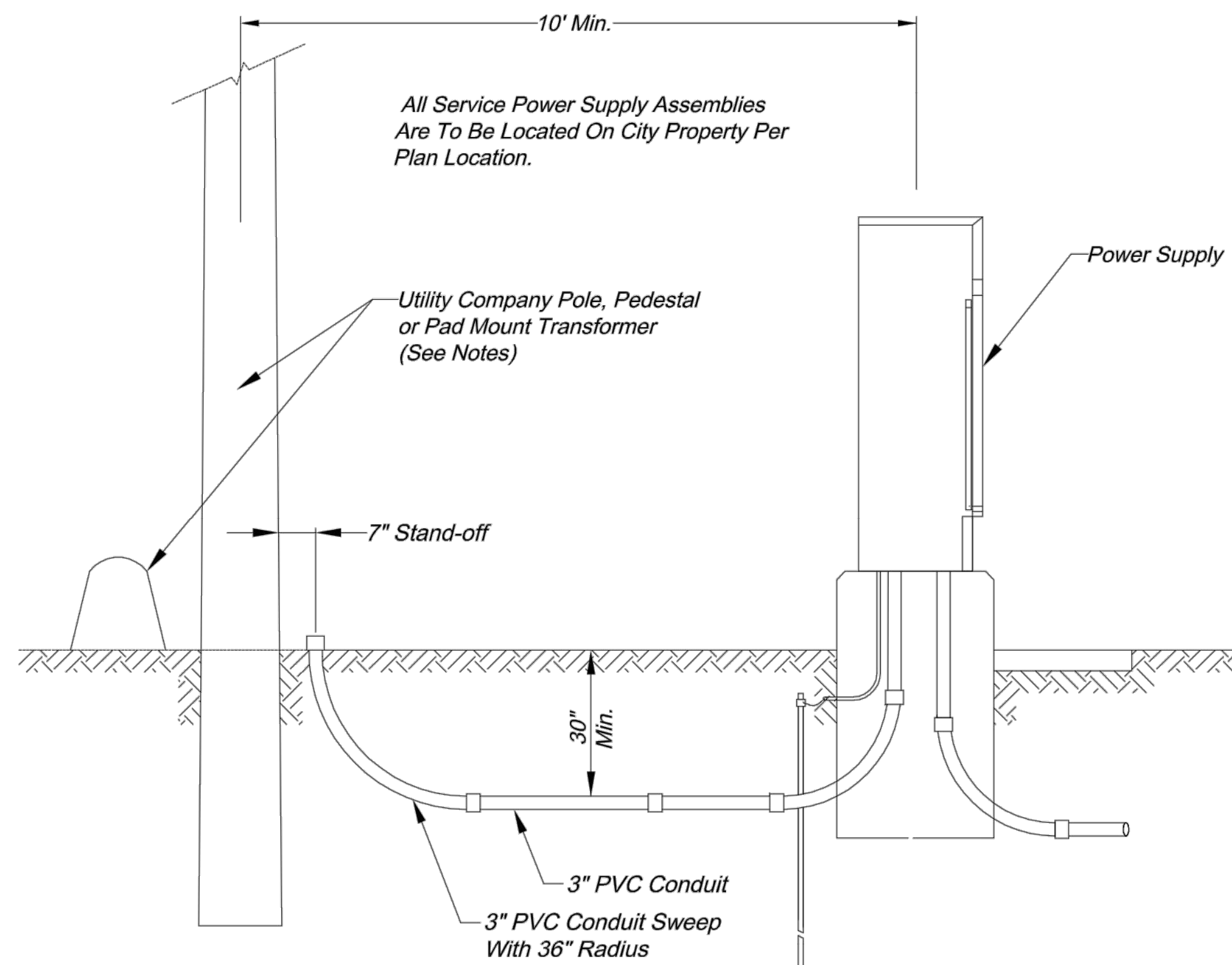
The type power supply assembly is shown on the plans or is designated on the contract.

The utility company shall be notified 30 days prior to date service will be required.

All openings in any utility enclosure, service box, or meter shall be covered and sealed with lifetime silicone caulk.

Contractor to provide sufficient number of ground rod(s) as required for maximum of 25 Ohms resistance to ground.

All materials required excluding reference items as shown on drawing shall be included in price bid for power supply assembly.



SECONDARY SERVICE CONNECTION DETAILS

NOTES:

1. Contractor shall install a conduit stub 24" to 6" above ground at utility poles. Conduit shall be stubbed to the side of the pole that will allow a direct run up the pole to the transformer without crossing other utility lines or cables. The end of the conduit shall be capped.
2. Contractor shall install conduit in a trench to within 24" of pedestals or pad mount transformers and leave a 36" x 36" x 36" access hole in the ground. Contractor shall keep open trench covered and promptly backfill access hole when service is completed.

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809



POWER SUPPLY ASSEMBLY
240/120 VOLT SERVICE

STANDARD DRAWING TS-9

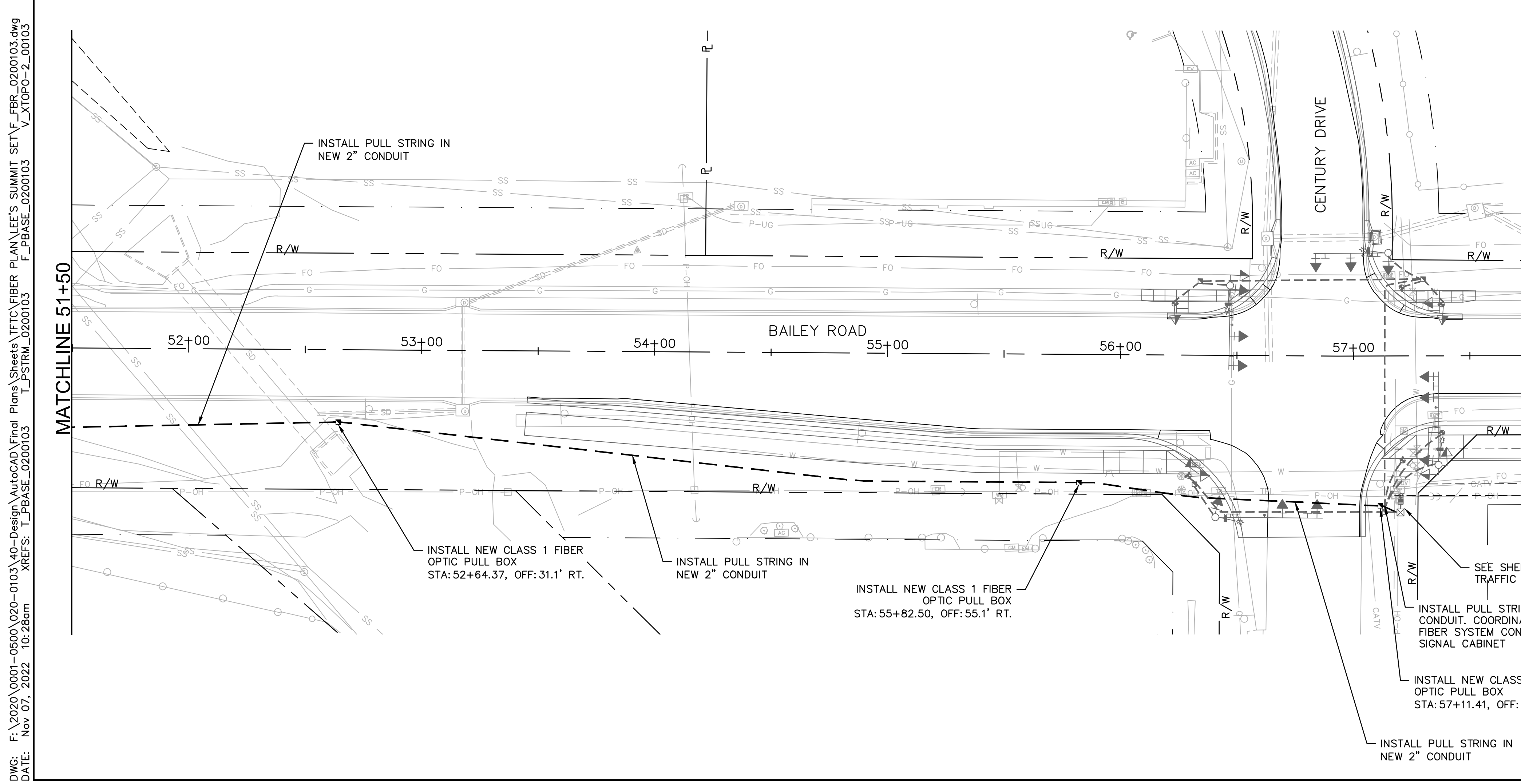
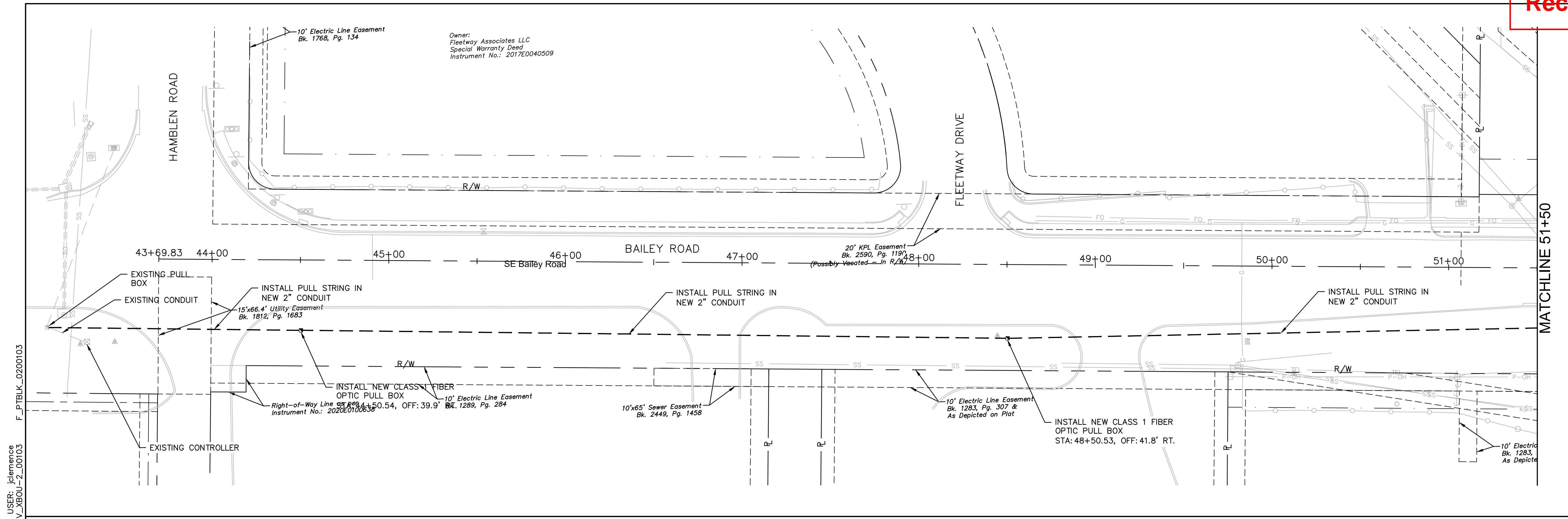
Drawn By: AS
Checked By: MP
Date: 09/25/2009
Project#

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	JAB

REVISIONS

FIBER INTERCONNECT BAILEY ROAD	LEE'S SUMMIT MIDDLE SCHOOL #4 PUBLIC ROAD IMPROVEMENTS	2021
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C.O.A. NO.:	001592
DRAWN BY:	JRC
CHECKED BY:	JAB
APPROVED BY:	SLJ
QA/QC BY:	THE
PROJECT NO.:	020-0103
DWG NO.:	F 75 (2021)
DATE:	11/4/2022



QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	2" CONDUIT WITH LOCATE CABLE AND PULL STRING	L.F.	1,406
2.	CLASS 1 FIBER OPTIC PULL BOX	EA.	5
3.	FIBER INTERFACE PANEL WITH 250' PIGTAIL	EA.	2
4.	ETHERNET SWITCH, TRANSITION WITH SEPARATE POWER SOURCE*	EA.	2
5.	SINGLE MODE PATCH CABLES	EA.	8

*EACH ETHERNET SWITCH SHALL INCLUDE:
 ONE (1) COMTROL MP-1204-XT
 ONE (1) MEAN WELL 240 DIN RAIL POWER SUPPLY
 TWO (2) COMTROL 1200060 SFP MODULE

- GENERAL NOTES:
1. A 1c#10 AWG THHN/THWN STRANDED COPPER LOCATING CABLE (RED) AND PULL STRING SHALL BE INSTALLED IN ALL CONDUITS AND IS CONSIDERED SUBSIDIARY TO THE CONDUIT BID ITEM.
 2. CONTRACTOR TO INSTALL CONDUIT, PULL BOXES, PULL STRING, TRACER WIRE, AND CONNECTIONS TO INSIDE THE CABINET. ONCE COMPLETE CONTACT TIM SCHARFF AT CITY OF LEE'S SUMMIT IT DEPARTMENT 816-969-1234 TO COORDINATE INSTALLATION OF FIBER OPTIC CABLE.
 3. FIBER OPTIC CONDUIT AND PULL BOX LOCATIONS MAY BE FIELD ADJUSTED (AS APPROVED BY THE ENGINEER) TO MAINTAIN ADEQUATE HORIZONTAL AND VERTICAL CLEARANCE FROM UNDERGROUND UTILITIES.



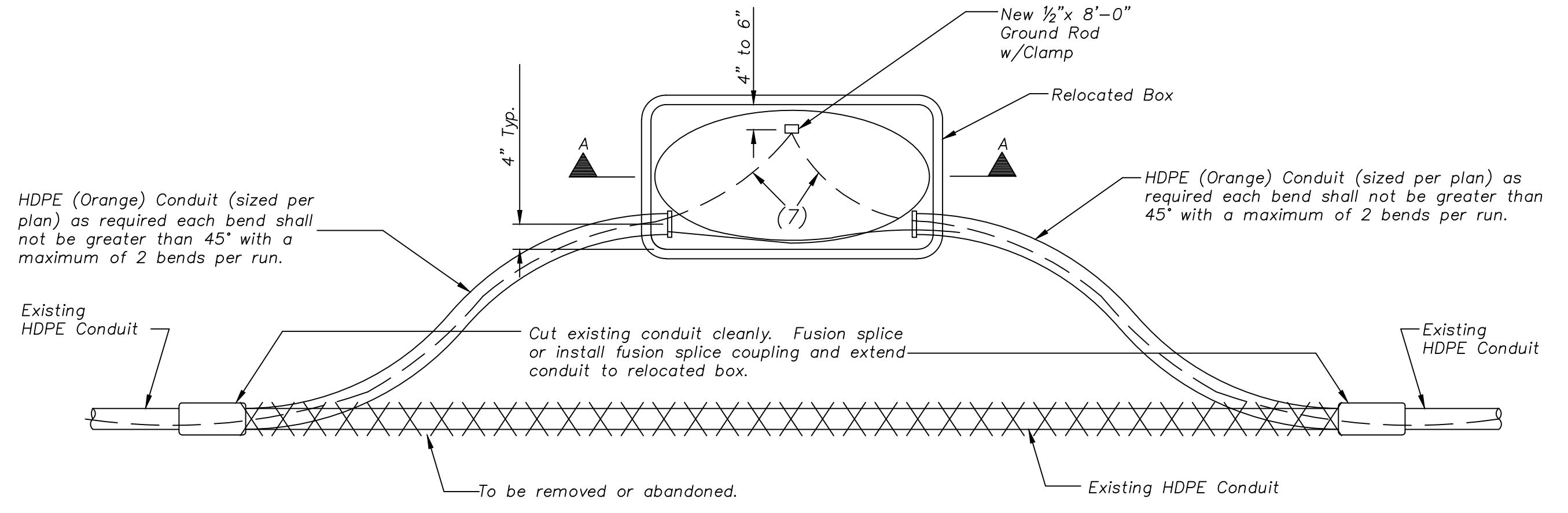
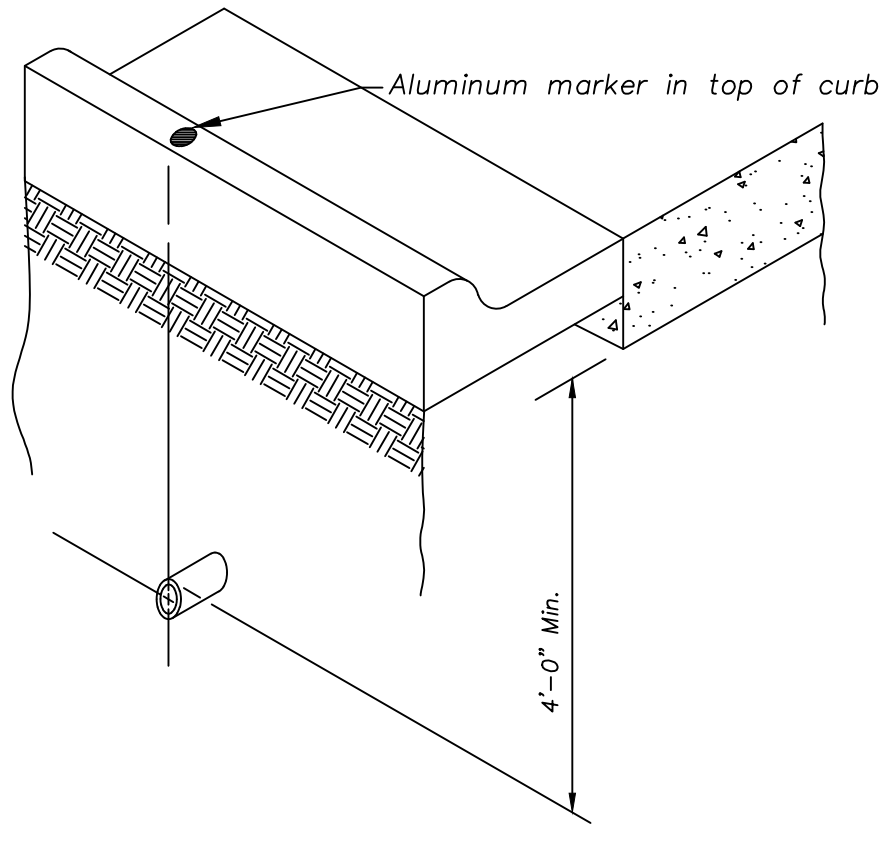
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REV. NO.	DATE	REVISIONS DESCRIPTION	BY

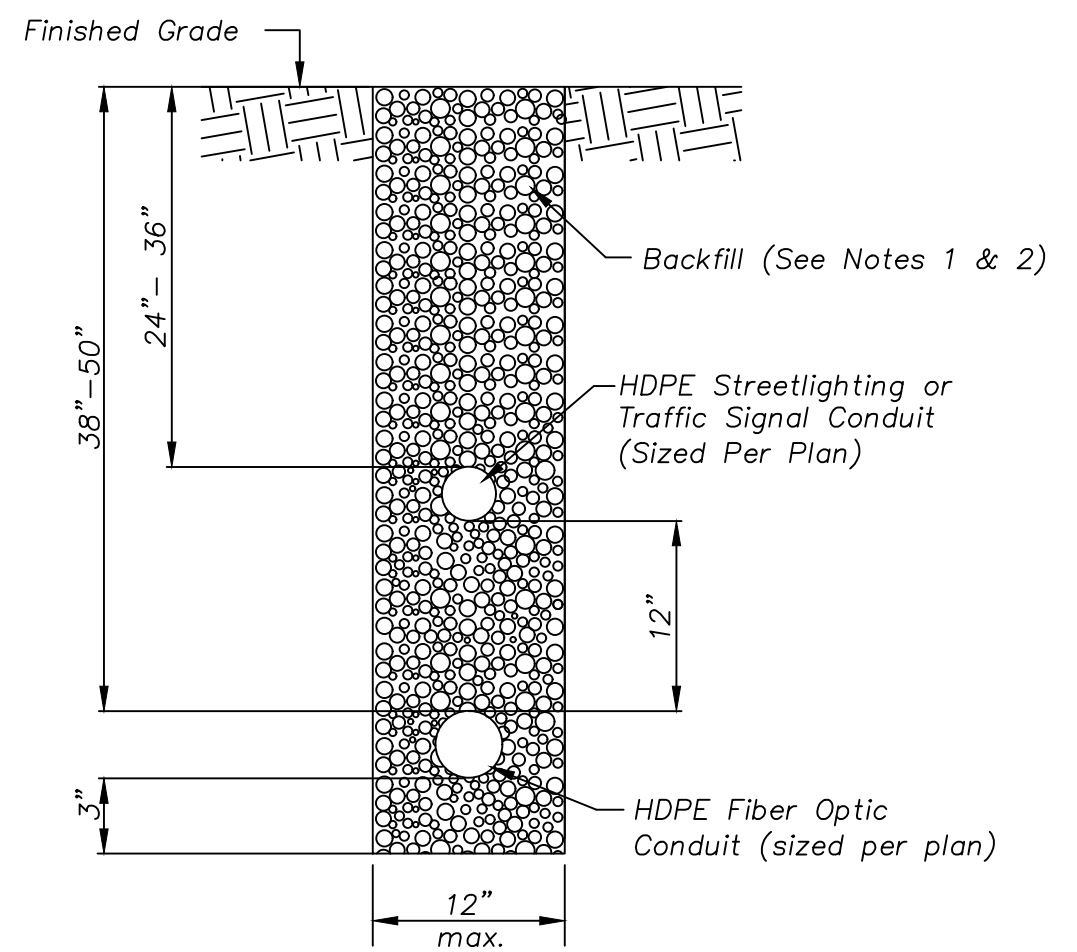
FIBER DETAILS BAILEY ROAD	LEE'S SUMMIT MIDDLE SCHOOL #4 PUBLIC ROAD IMPROVEMENTS	2021
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- Conduit Marking Detail Notes:**
- Conduit under all roadway surfaces shall be placed a minimum of 4'-0" below the bottom of pavement and shall extend to a junction box or service box. Refer to The City of Lee's Summit Horizontal Directional Drilling Guidelines Handbook, latest edition for further requirements for conduit installation under roadway surfaces. The conduit shall be installed to drain. All ends shall be capped if not used. An aluminum marker shall be placed in the top of the curb directly over the conduit. Aluminum markers will be furnished by The City of Lee's Summit.
 - The contractor shall notify the City of Lee's Summit, Department of Public Works Traffic Services Division, ???-???, For inspection of the conduit installation by the streetlighting inspector. at least 24 hours notice shall be provided. The conduit shall not be covered so as to ensure proper depth, correct conduit material, and proper conduit end treatment as described above.

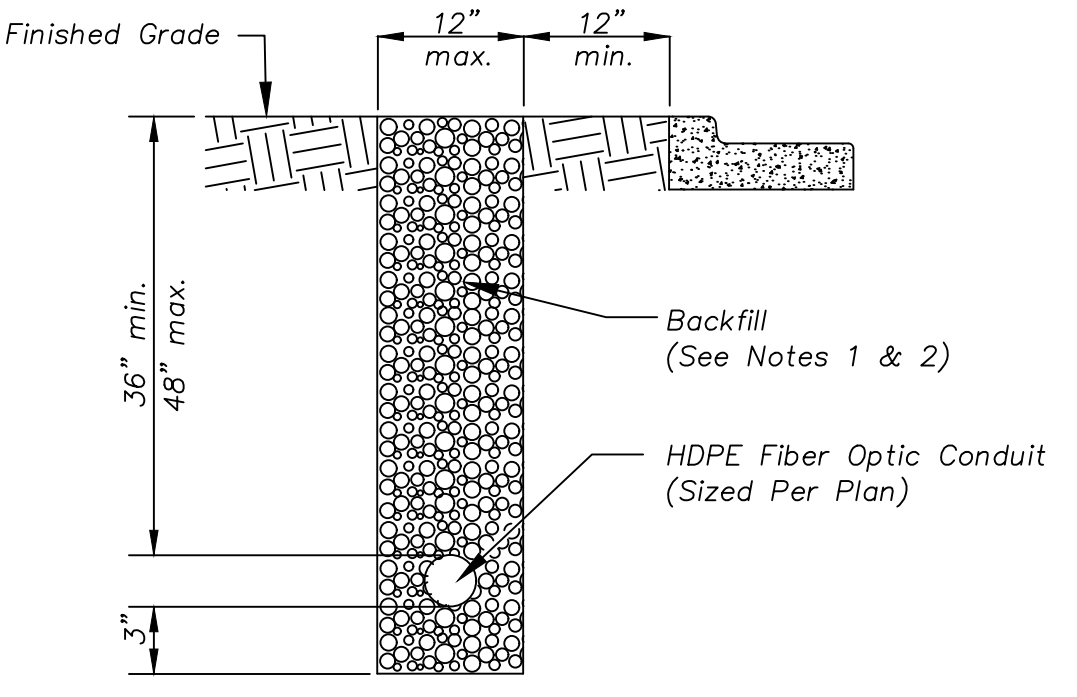
Conduit Marking Detail



Plan (Conduit Position)
Relocated Box Installation Detail



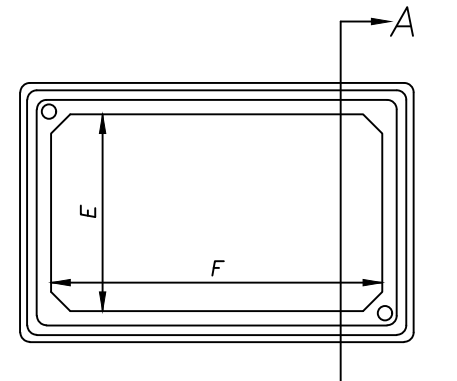
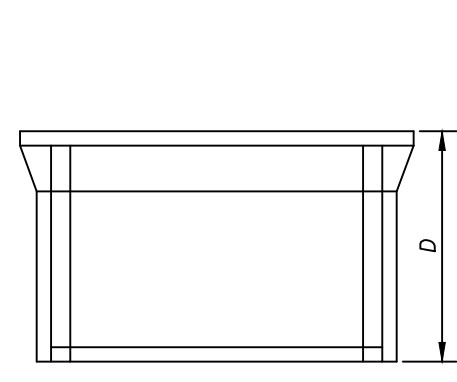
Trench w/Multiple
Conduits in Unpaved
Areas



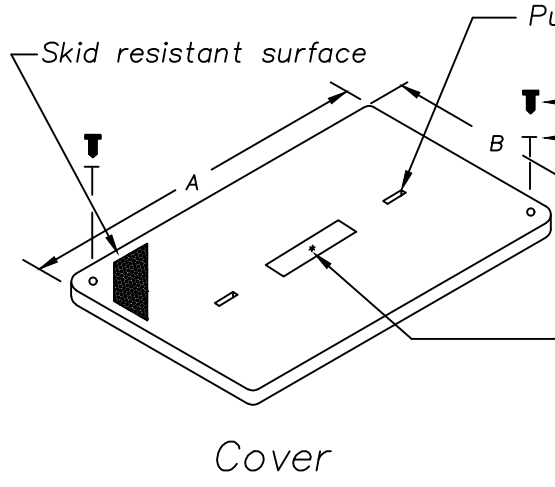
Trenching in Unpaved
Areas

- Notes:**
- All trenches for conduit under proposed paved surfaces shall be backfilled with flowable fill.
 - Backfill in unpaved areas shall be earth or AB-3 and free of rubble and rock. Conduits shall be pitched to drain.
 - If multiple conduits are installed, they shall have a minimum of 12" horizontal or vertical separation between them.

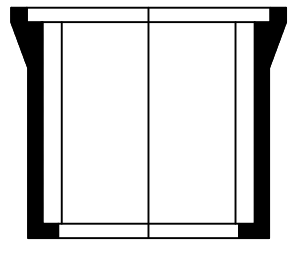
Trenching Details



Box



Cover

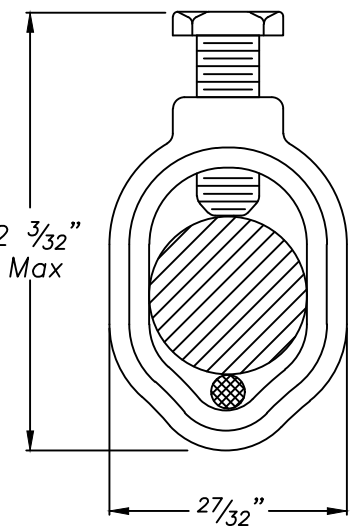


Section A-A

Box Type	Approximate Dimensions (inches)					
	A	B	C	D	E	F
Type 1 Fiber	35 5/8	24	3	24	22 1/4	33 7/8
Type 2 Fiber (8)	47 5/8	30 1/8	3	24	28 1/8	45 5/8

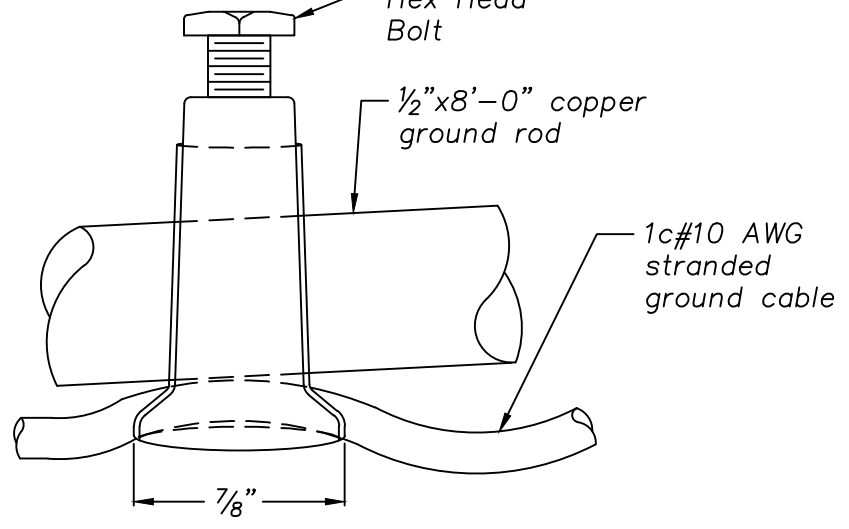
Fiberglass Reinforced Polymer Concrete
Fiber Optic Service Box Details

Plan View

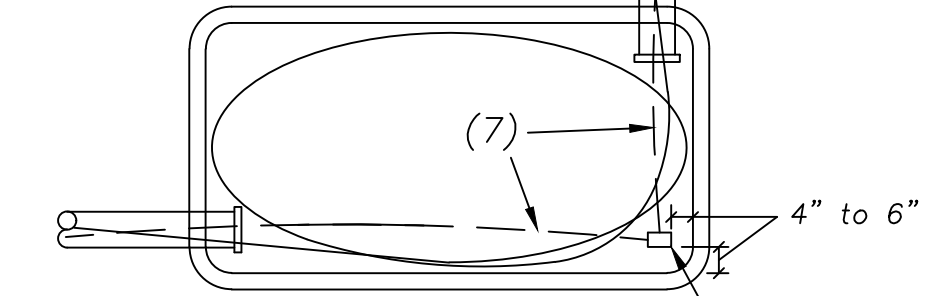


Ground Rod Clamp Connection Detail

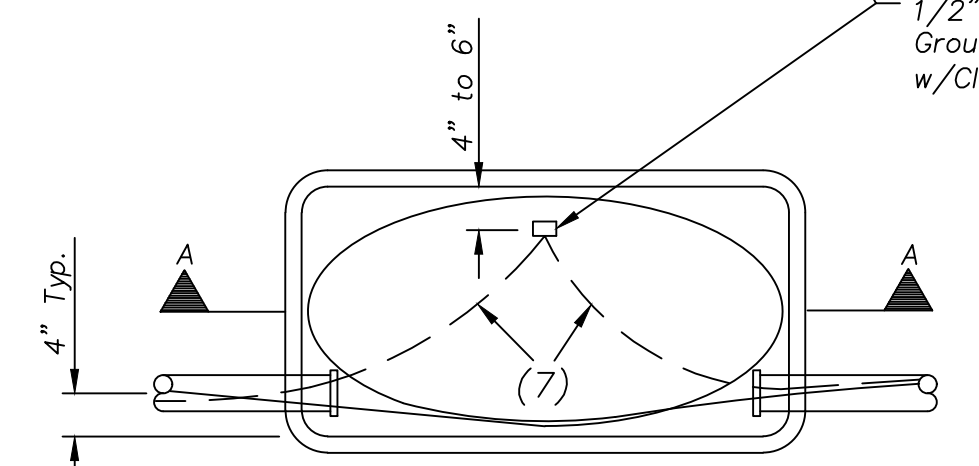
Side View



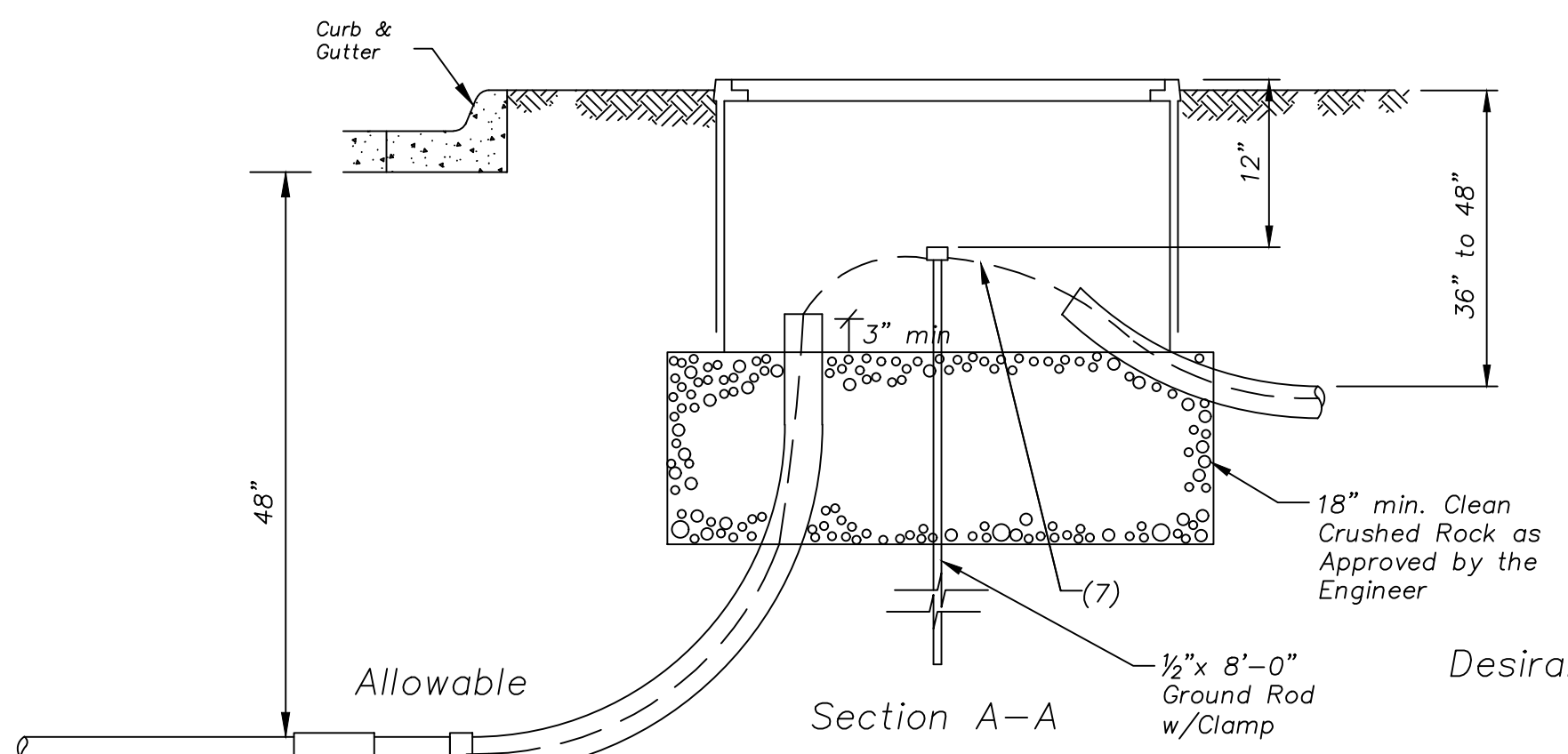
- Notes:**
- Boxes shall be stackable for extra depth.
 - The "FO" service box and cover shall be rated for no less than 22,500 lbs test load (Tier 15) load per ANSI/SCTE-77.
 - Service box material to be an aggregate consisting of sand and gravel bound together with a polymer and reinforced with continuous woven glass strands. The material must have the following mechanical properties:
Compressive Strength - 11,000 psi ASTM C-109/D3410
Tensile Strength - 1,700 psi ASTM C-496/D638/D2343
Flexural Strength - 7,500 psi ASTM C-580/D790
 - A 1/2" x 8'-0" ground rod shall be installed in each service box.
 - The conduit shall enter and exit the service box between 36" and 48" and shall be 4" centered off the edge of the service box wall. The fiber cable shall at no time have less than an 8" radius bend.
 - 18" min. layer of 1/2" clean crushed rock shall be constructed below the service box for drainage purposes.
 - 1c#10 AWG THHN/THWN (red) stranded copper locating cable.
 - The Type 2 fiber box shall have a two-piece overlapping cover.



Plan (Conduit Position)
Directional Change



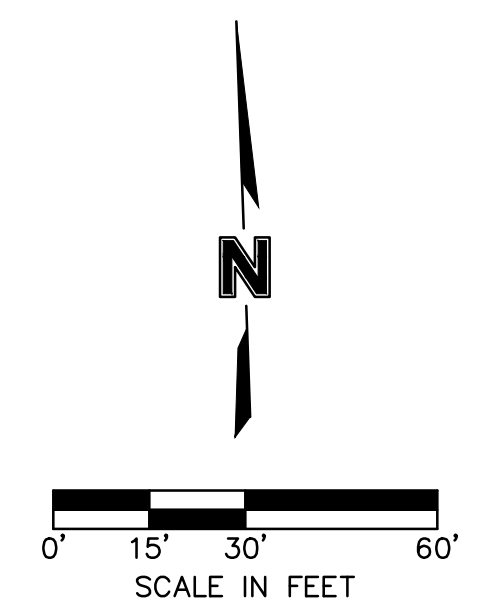
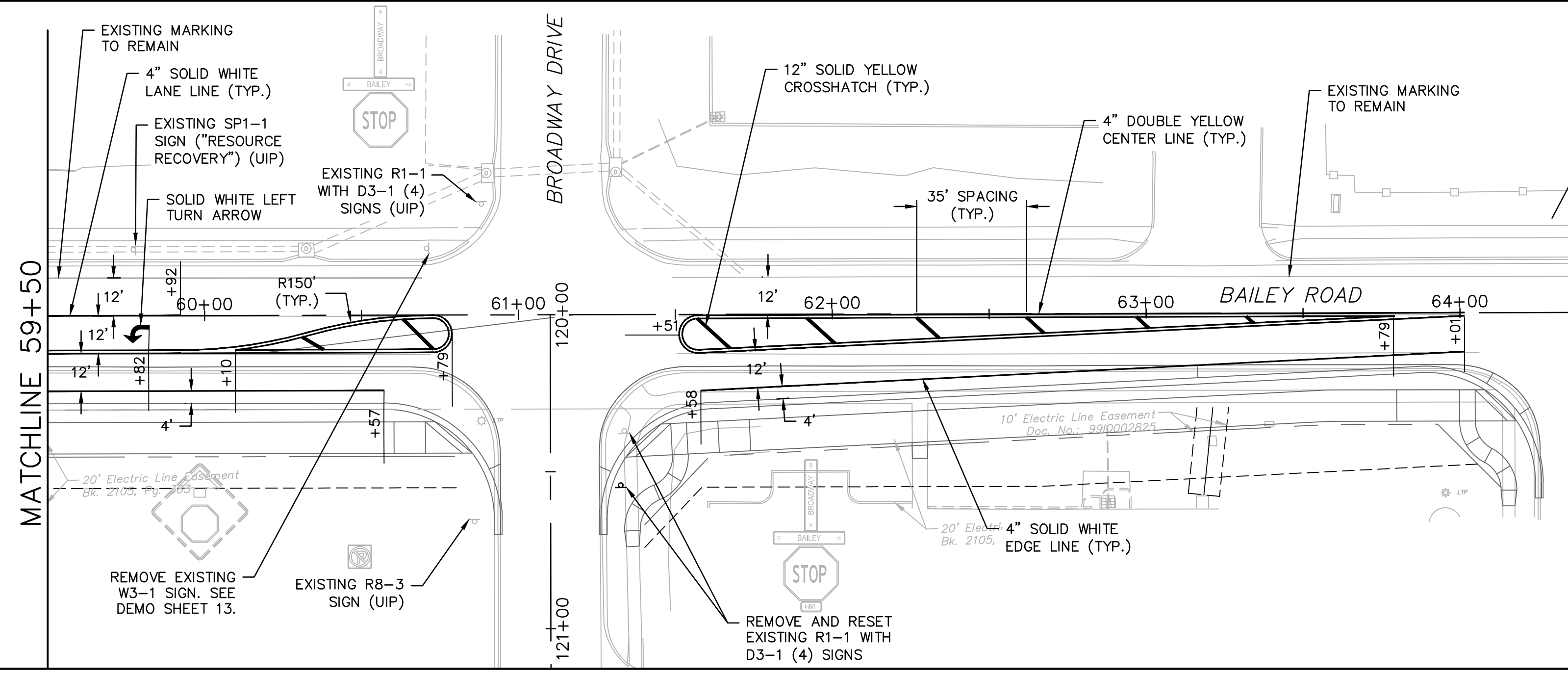
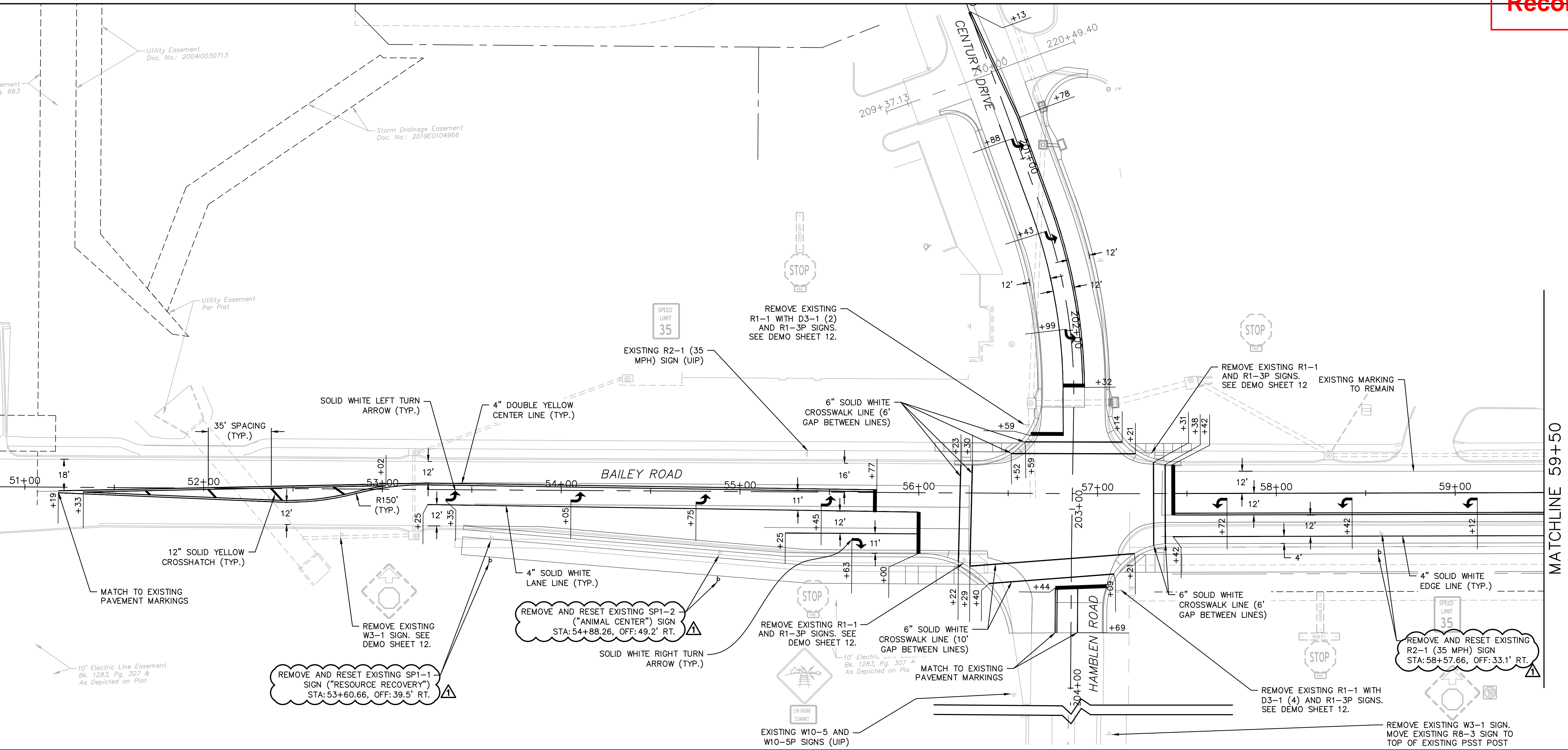
Plan (Conduit Position)
Straight Through Run



Initial Box Installation Detail

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MATCHLINE 59+50

MATCHLINE 59+50

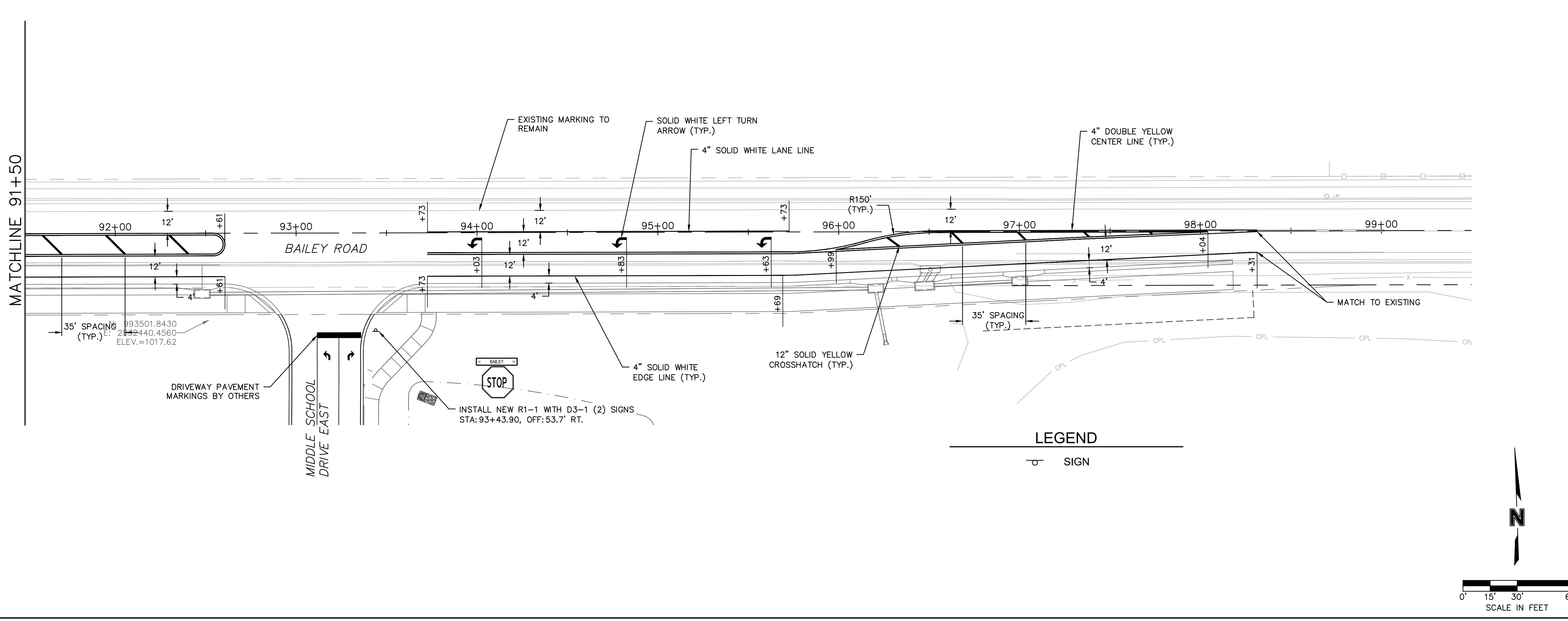
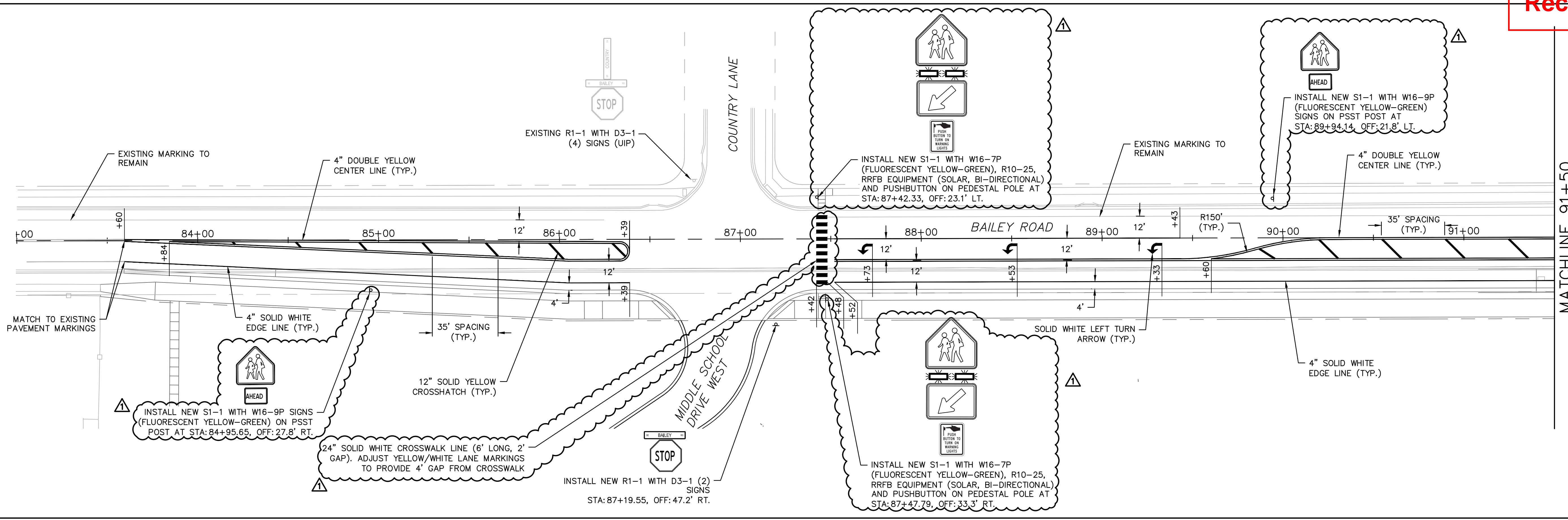
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1	08/25/2021	ASI #29	JAB

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

PAVEMENT MARKING AND SIGNING PLAN
BAILEY ROAD
LEE'S SUMMIT MIDDLE SCHOOL #4
PUBLIC ROAD IMPROVEMENTS
LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
DRAWN BY: JRC
CHECKED BY: JAB
APPROVED BY: SLJ
QA/QC BY: THE
PROJECT NO.: 020-0103
DWG NO.: F_SAS_0200103
DATE: 11/4/2022

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USER: iclemente V_XBOU_2_00103 V_XTOPO_00103



MATCHLINE 91+50

MATCHLINE 91+50

olsson
 Olsson Engineering - MO State Certificate of Authority #001592
 7301 West 133rd Street, Suite 200 TEL: 913.381.1170
 Overland Park, KS 66213-4750 FAX: 913.381.1174
 www.olsosn.com

RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	3/11/2022	ASI #47	JAB

PAVEMENT MARKING AND SIGNING PLAN
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 PUBLIC ROAD IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

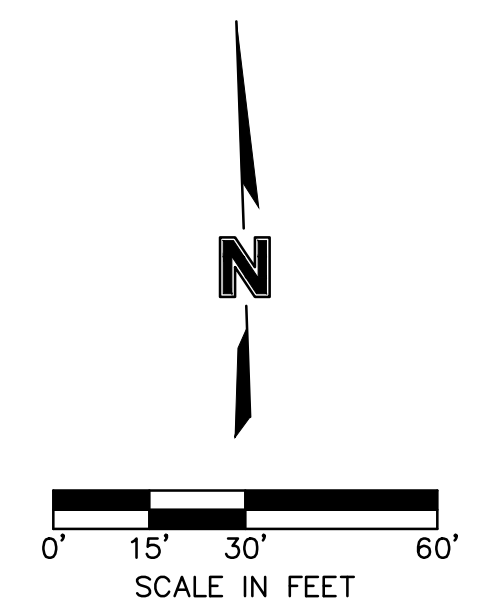
2021

C.O.A. NO.: 001592
 DRAWN BY: JRC
 CHECKED BY: JAB
 APPROVED BY: SLJ
 QA/QC BY: THE
 PROJECT NO.: 020-0103
 DWG NO.: F_SAS_0200103
 DATE: 11/4/2022

SHEET 80 OF 101

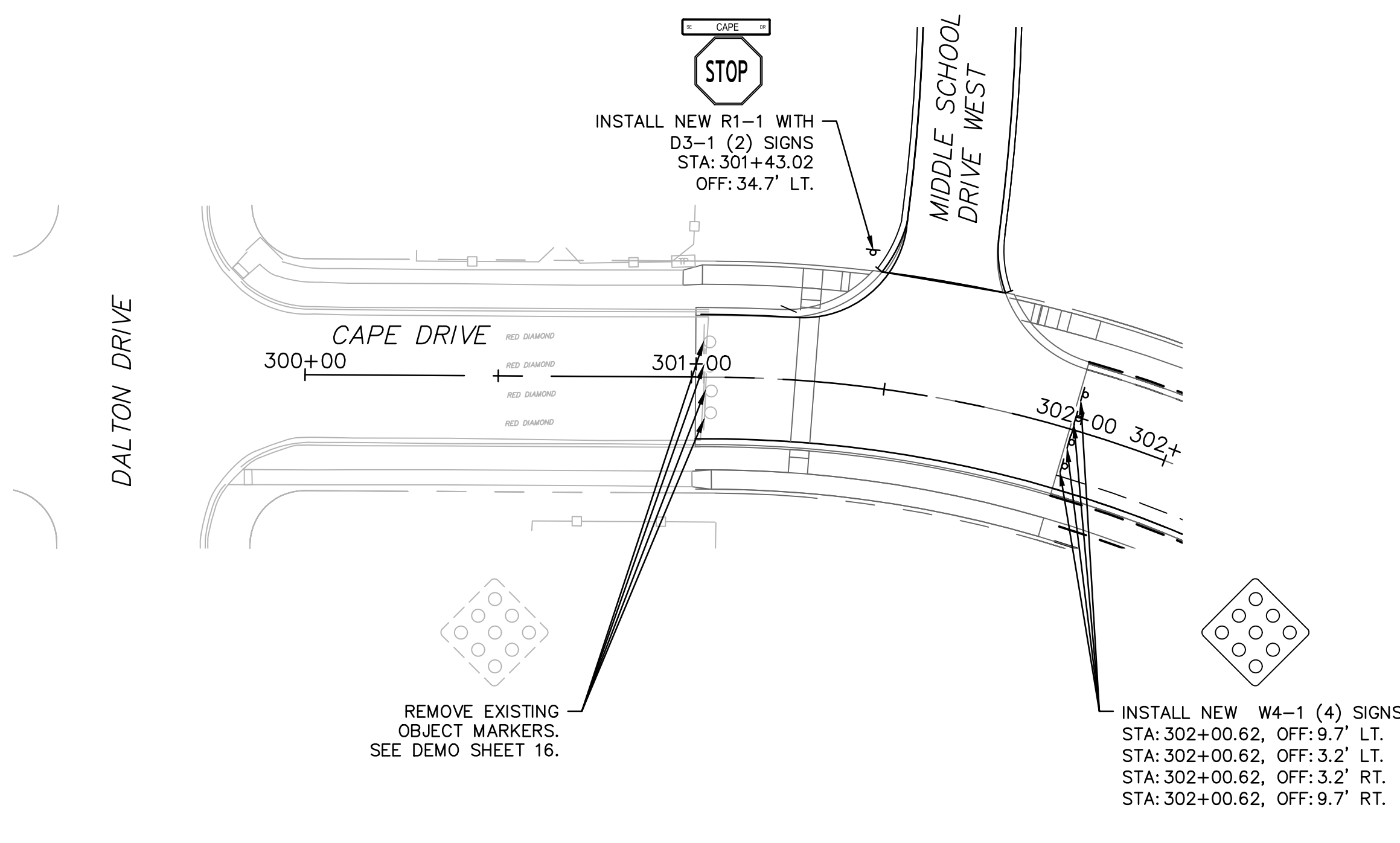
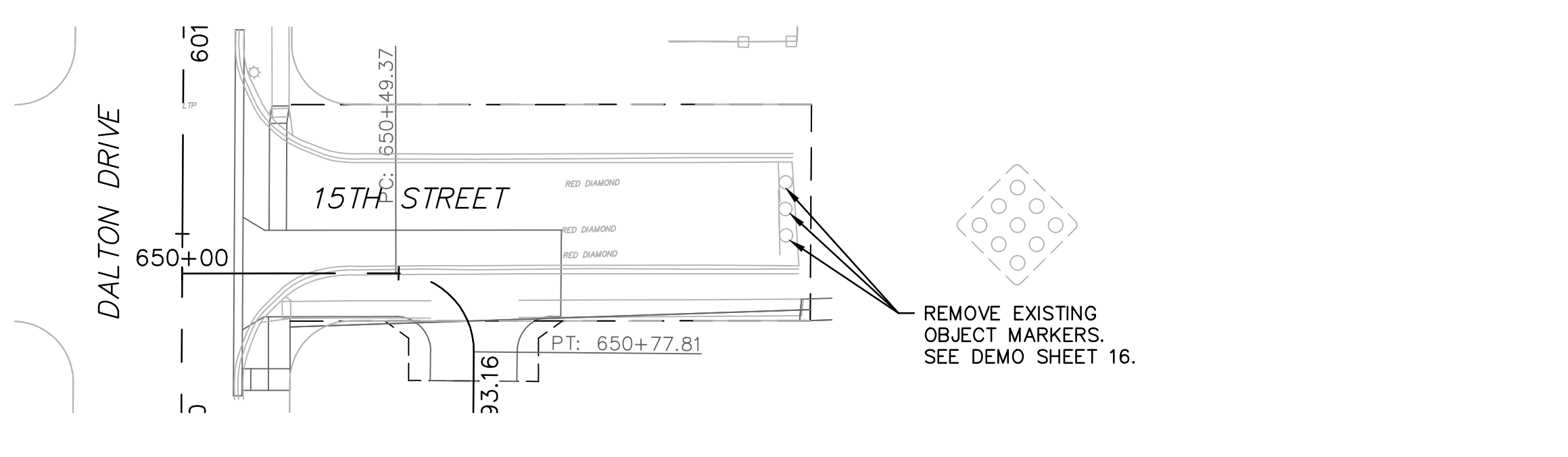
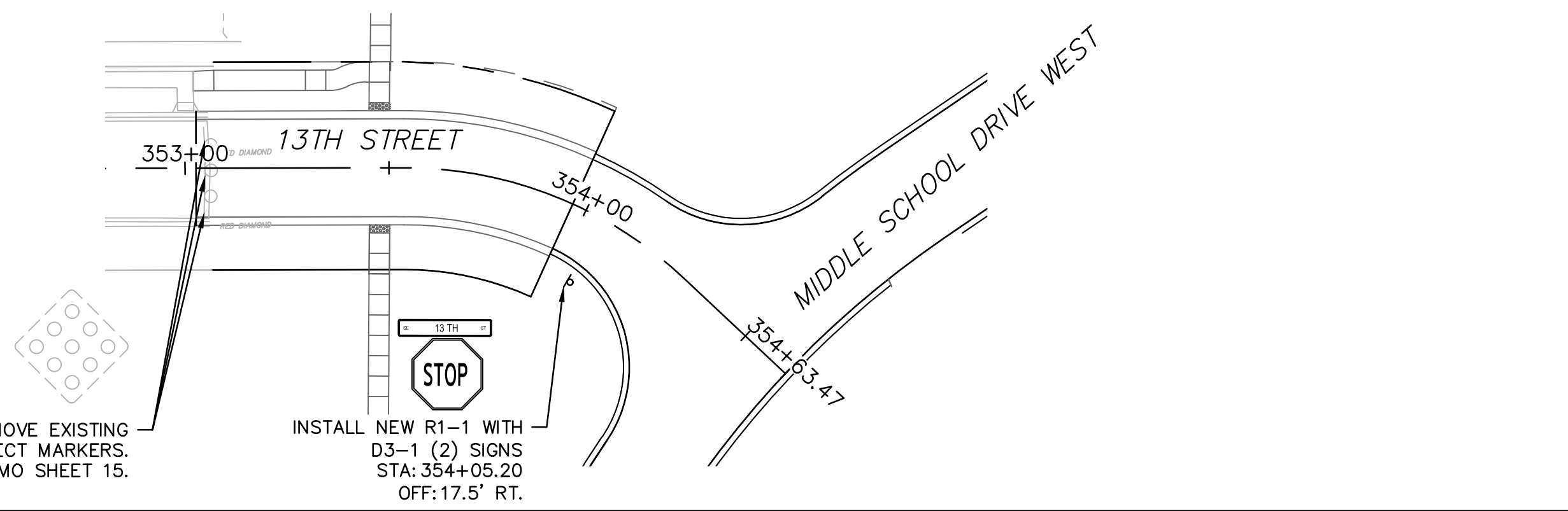
LEGEND

○ SIGN

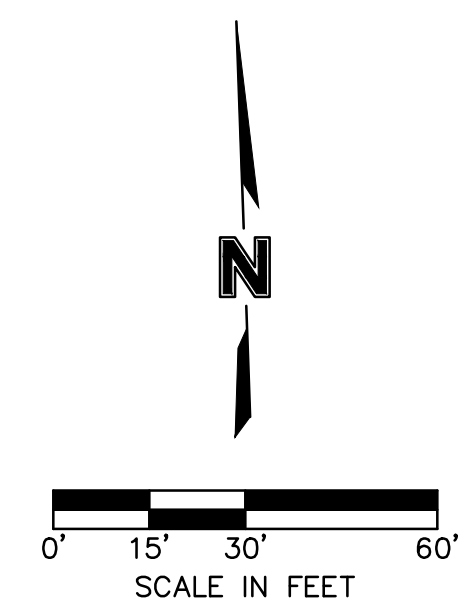


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F_SAS_BASE_0200103 T_PBASE_0200103 C_PBASE_0200103



PERMANENT SIGNING SUMMARY							
STATION	STREET REFERENCE	OFFSET FROM C/L	MUTCD DESIGNATION	SIGN SIZE	AREA (SF)	POST TYPE	REMARKS
53+60.66	BAILEY ROAD	39.5' RIGHT	SP1-1 (RESOURCE RECOVERY)	-	-	SQUARE	Remove and Reset on New Post
54+88.26	BAILEY ROAD	49.2' RIGHT	SP1-2 (ANIMAL CENTER)	-	-	SQUARE	Remove and Reset on New Post
-	BAILEY ROAD	-	R2-1 (35 MPH)	-	-	-	Use In Place
-	HAMBLER ROAD	-	W10-5	-	-	-	Use In Place
-	HAMBLER ROAD	-	W10-5P	-	-	-	Shared Post
-	HAMBLER ROAD	-	R8-3	-	-	-	Move Existing Sign to Top of Existing Post
58+57.66	BAILEY ROAD	33.1' RIGHT	R2-1 (35 MPH)	-	-	SQUARE	Remove and Reset on New Post
-	BAILEY ROAD	-	SP1-1 (RESOURCE RECOVERY)	-	-	-	Use In Place
-	BROADWAY DRIVE	-	R1-1	-	-	-	Use In Place
-	BROADWAY DRIVE	-	D3-1 (BAILEY RD)	-	-	-	Shared Post
-	BROADWAY DRIVE	-	D3-1 (BAILEY RD)	-	-	-	Shared Post
-	BROADWAY DRIVE	-	D3-1 (BROADWAY DR)	-	-	-	Shared Post
-	BROADWAY DRIVE	-	D3-1 (BROADWAY DR)	-	-	-	Shared Post
120+54.34	BROADWAY DRIVE	22.4' LEFT	R1-1	-	-	SQUARE	Remove and Reset on New Post
-	BROADWAY DRIVE	-	D3-1 (BAILEY RD)	-	-	-	Shared Post
-	BROADWAY DRIVE	-	D3-1 (BAILEY RD)	-	-	-	Shared Post
-	BROADWAY DRIVE	-	D3-1 (BROADWAY CIR)	-	-	-	Shared Post
-	BROADWAY DRIVE	-	D3-1 (BROADWAY CIR)	-	-	-	Shared Post
-	BROADWAY DRIVE	-	R8-3	-	-	-	Use In Place
-	BAILEY ROAD	-	R1-1	-	-	-	Use In Place
-	BAILEY ROAD	-	D3-1 (BAILEY RD)	-	-	-	Shared Post
-	BAILEY ROAD	-	D3-1 (BAILEY RD)	-	-	-	Shared Post
-	BAILEY ROAD	-	D3-1 (COUNTRY LN)	-	-	-	Shared Post
-	BAILEY ROAD	-	D3-1 (COUNTRY LN)	-	-	-	Shared Post
87+19.55	BAILEY ROAD	47.2' RIGHT	R1-1	30"x30"	6.25	SQUARE	Install on New Post
-	BAILEY ROAD	-	D3-1 (BAILEY RD)	9" x 42"	2.63	-	Shared Post
-	BAILEY ROAD	-	D3-1 (BAILEY RD)	9" x 42"	2.63	-	Shared Post
93+43.90	BAILEY ROAD	53.7' RIGHT	R1-1	30"x30"	6.25	SQUARE	Install on New Post
-	BAILEY ROAD	-	D3-1 (BAILEY RD)	9" x 42"	2.63	-	Shared Post
-	BAILEY ROAD	-	D3-1 (BAILEY RD)	9" x 42"	2.63	-	Shared Post
354+05.20	13TH STREET	17.5' RIGHT	R1-1	30"x30"	6.25	SQUARE	Install on New Post
-	13TH STREET	-	D3-1 (13TH ST)	9" x 36"	2.25	-	Shared Post
-	13TH STREET	-	D3-1 (13TH ST)	9" x 36"	2.25	-	Shared Post
301+43.02	CAPE DRIVE	34.7' LEFT	R1-1	30"x30"	6.25	SQUARE	Install on New Post
-	CAPE DRIVE	-	D3-1 (CAPE DR)	9" x 36"	2.25	-	Shared Post
-	CAPE DRIVE	-	D3-1 (CAPE DR)	9" x 36"	2.25	-	Shared Post
302+00.62	CAPE DRIVE	9.7' LEFT	W4-1	18"x18"	2.25	SQUARE	Install on New Post
302+00.62	CAPE DRIVE	3.2' LEFT	W4-1	18"x18"	2.25	SQUARE	Install on New Post
302+00.62	CAPE DRIVE	3.2' RIGHT	W4-1	18"x18"	2.25	SQUARE	Install on New Post
302+00.62	CAPE DRIVE	9.7' RIGHT	W4-1	18"x18"	2.25	SQUARE	Install on New Post
TOTALS					54	12	



REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	JAB

PAVEMENT MARKING AND SIGNING PLAN
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 PUBLIC ROAD IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: JRC
 CHECKED BY: JAB
 APPROVED BY: SLJ
 QA/QC BY: THE
 PROJECT NO.: 020-0103
 DWG NO.: F_SAS_0200103
 DATE: 11/4/2022

RECORD DRAWINGS

olsson
 Olsson Engineering - MO State Certificate of Authority #001592
 7301 West 133rd Street, Suite 200 TEL: 913.381.1170
 Overland Park, KS 66213-4760 FAX: 913.381.1174
 www.olsson.com

PAVEMENT MARKING SUMMARY

STATION TO STATION		LOCATION	4" SOLID WHITE LANE LINE (LF)	4" BROKEN WHITE LANE LINE (LF)	8" DASHED WHITE EXTENSION LINE (LF)	4" SOLID YELLOW LINE (LF)	4" BROKEN YELLOW LANE LINE (LF)	12" YELLOW CROSSHATCH LINE (LF)	24" WHITE STOP LINE (LF)	6" WHITE CROSSWALK LINE (LF)	WHITE TURN ARROW (EA)	
											RT	LT
51+19	51+33	BAILEY ROAD				28						
51+33	53+02	BAILEY ROAD				678		26				
53+02	55+77	BAILEY ROAD				550						
53+25	56+00	BAILEY ROAD	275									4
55+25	56+00	BAILEY ROAD	75								1	
55+77	55+77	BAILEY ROAD							12			
56+00	56+00	BAILEY ROAD							23			
56+22	56+23	BAILEY ROAD								54		
56+29	56+30	BAILEY ROAD								56		
56+29	57+21	BAILEY ROAD								92		
56+40	57+09	BAILEY ROAD								70		
56+52	57+21	BAILEY ROAD								70		
56+59	57+14	BAILEY ROAD								55		
200+13	202+32	CENTURY DRIVE				442						
200+78	202+59	CENTURY DRIVE	179									3
202+32	202+32	CENTURY DRIVE							12			
202+59	202+59	CENTURY DRIVE							18			
203+44	203+44	CENTURY DRIVE							29			
203+44	203+69	CENTURY DRIVE	25									
203+44	203+69	CENTURY DRIVE				50						
57+31	57+31	BAILEY ROAD								47		
57+38	57+38	BAILEY ROAD								44		
57+42	57+42	BAILEY ROAD							28			
57+42	59+92	BAILEY ROAD	250									4
57+42	60+10	BAILEY ROAD				534						
57+42	60+57	BAILEY ROAD	315									
60+10	60+79	BAILEY ROAD				288		22				
61+51	63+79	BAILEY ROAD				926		51				
61+58	64+01	BAILEY ROAD	243									
63+79	64+01	BAILEY ROAD				44						
83+60	83+84	BAILEY ROAD				48						
83+60	86+39	BAILEY ROAD	280									
83+84	86+39	BAILEY ROAD				1030		53				
87+43	89+43	BAILEY ROAD	200									3
87+43	89+60	BAILEY ROAD				434						
87+43	92+61	BAILEY ROAD	518									
89+60	92+61	BAILEY ROAD				1218		115				
93+73	95+73	BAILEY ROAD	200									3
93+73	95+99	BAILEY ROAD				452						
93+73	98+31	BAILEY ROAD	459									
95+99	98+04	BAILEY ROAD				824		28				
98+04	98+31	BAILEY ROAD				54						
TOTALS			3019	0	0	7600	0	295	122	488	1	17



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Overland Park, KS 66213-4760 FAX: 913.381.1174 www.olsson.com

RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	JAB

PAVEMENT MARKING AND SIGNING PLAN
BAILEY ROAD

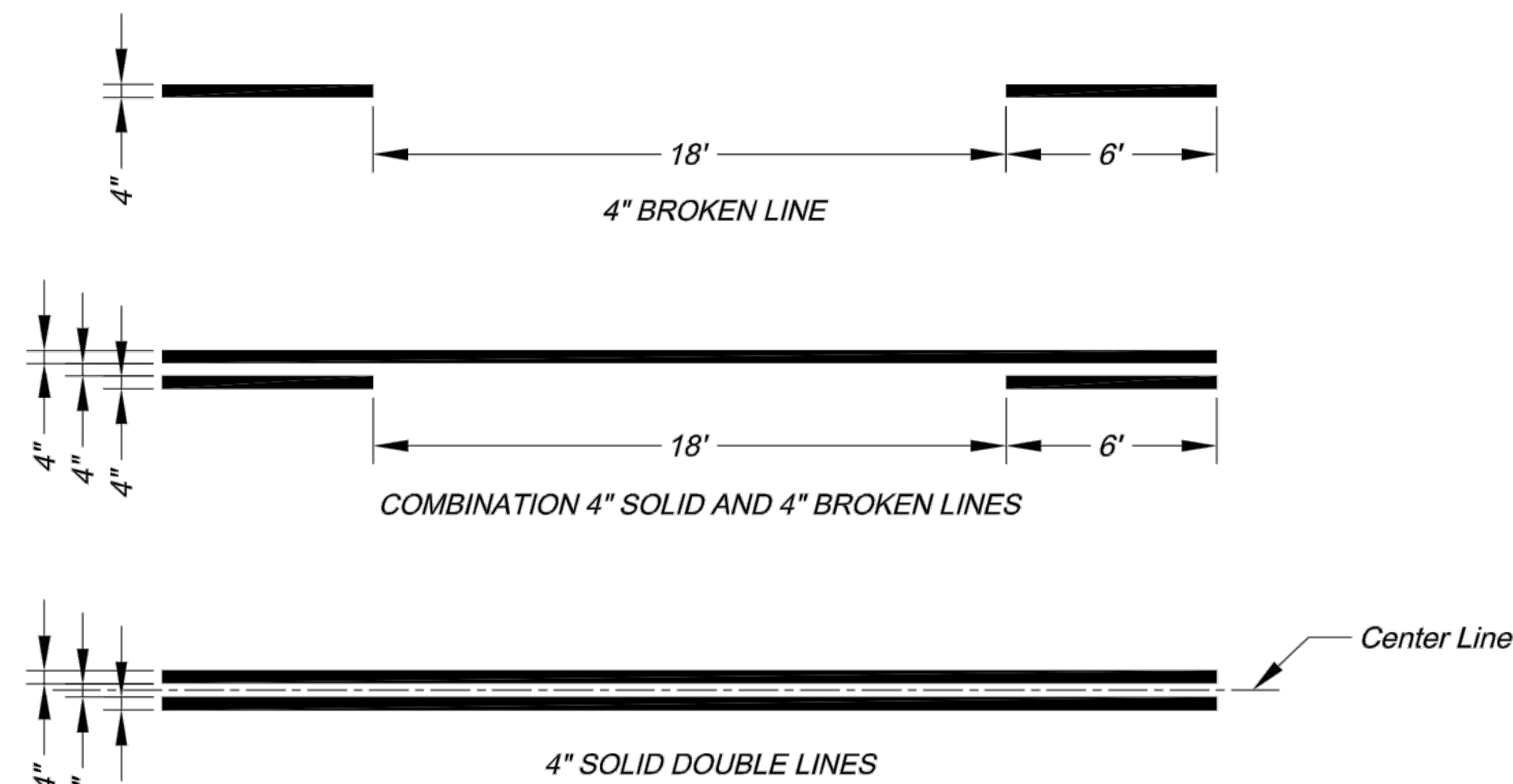
LEE'S SUMMIT MIDDLE SCHOOL #4
PUBLIC ROAD IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2021

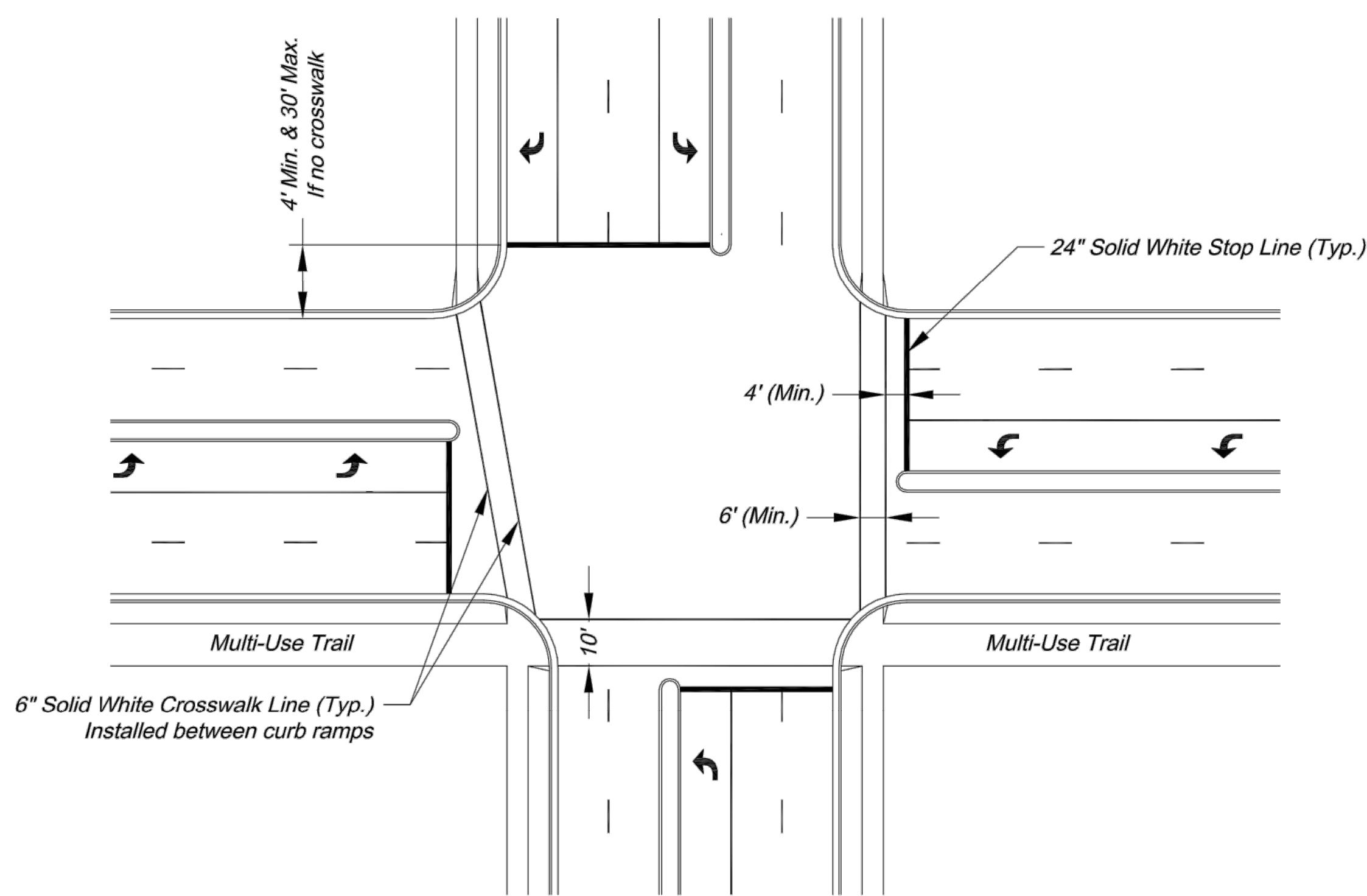
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DRAWN BY: JRC
CHECKED BY: JAB
APPROVED BY: SLJ
QA/QC BY: THE
PROJECT NO.: 020-0103
DWG NO.: F 845 (2011)
DATE: 11/4/2022

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 DATE: Nov 07, 2022 10:35am
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 USER: icelence
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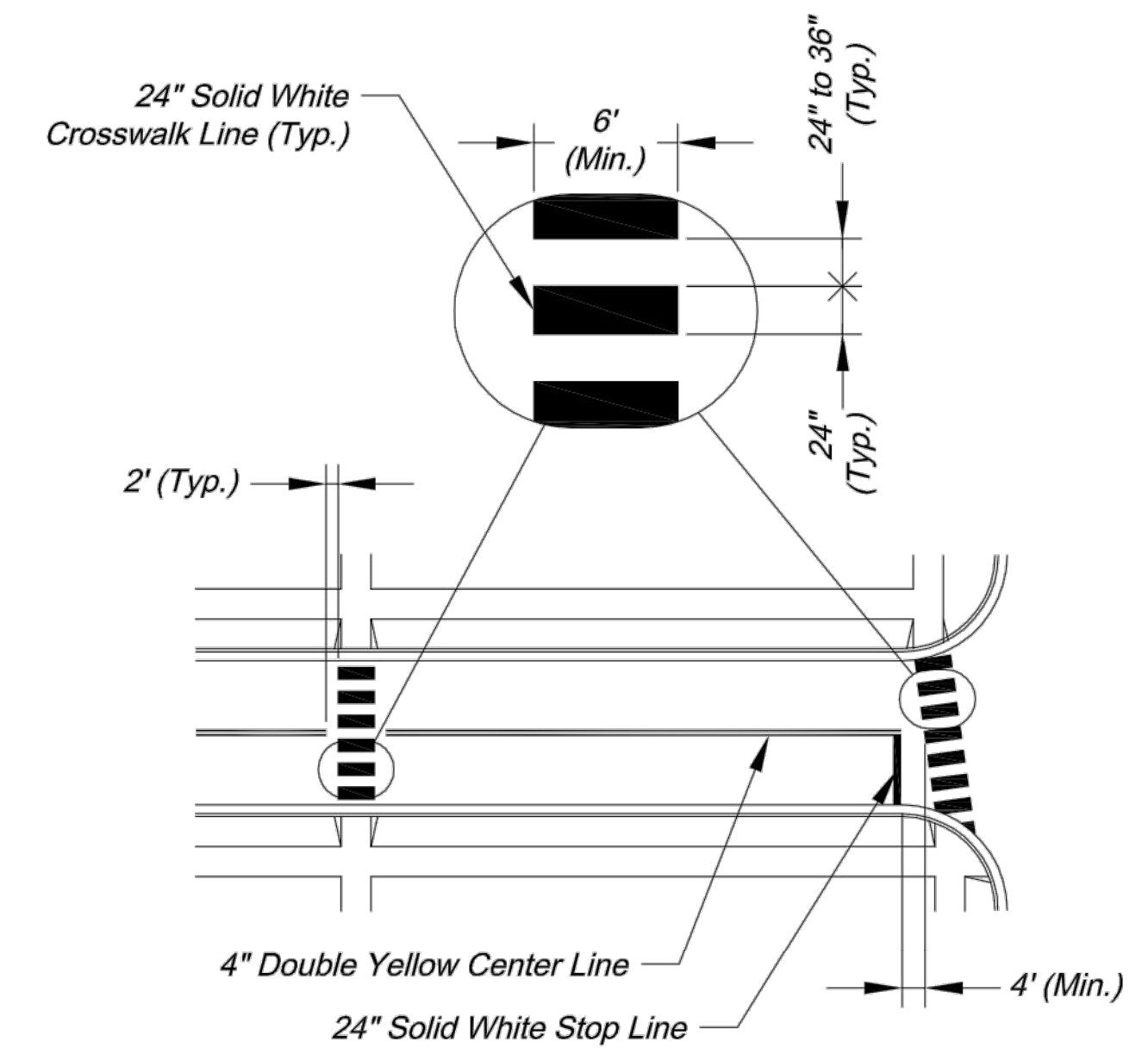
TYPICAL LINE DETAILS

- NOTES:
1. All edge line, center line, and lane line pavement markings shall be 4" wide unless otherwise noted.
 2. Edge lines shall be continuous solid white or yellow lines. Right side edge lines shall be solid white. Median or left side edge lines on divided roadways are to be solid yellow. Edge lines and center lines shall be continuous across driveways.

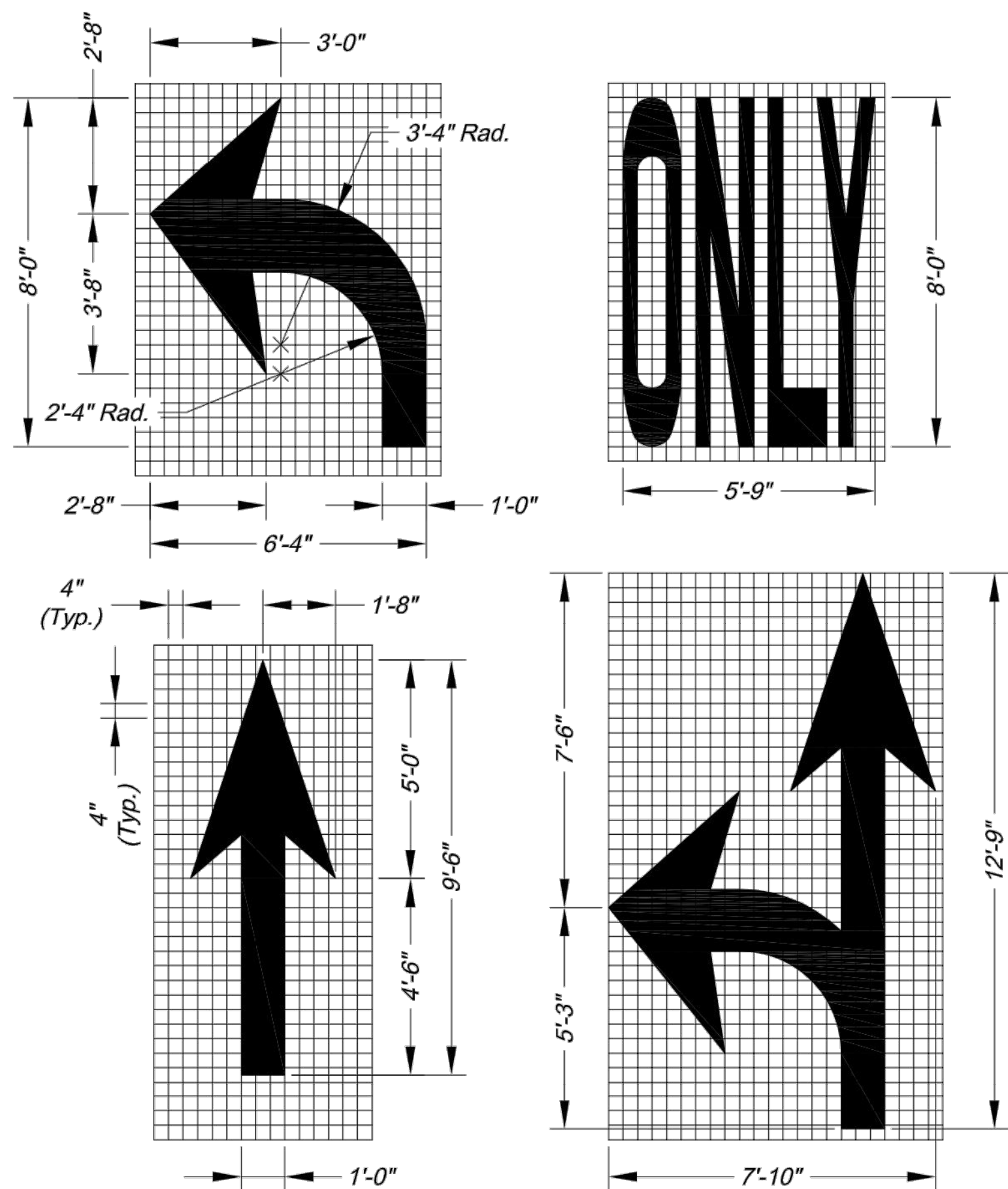


TYPICAL INTERSECTION MARKINGS

- NOTES:
1. Transverse crosswalk lines shall be installed such that the distance between lines is at least 6 or 10 feet.
 2. Stop lines are required at signalized intersections, on multi-lane stop controlled approaches, or in front of crosswalks at controlled intersections.

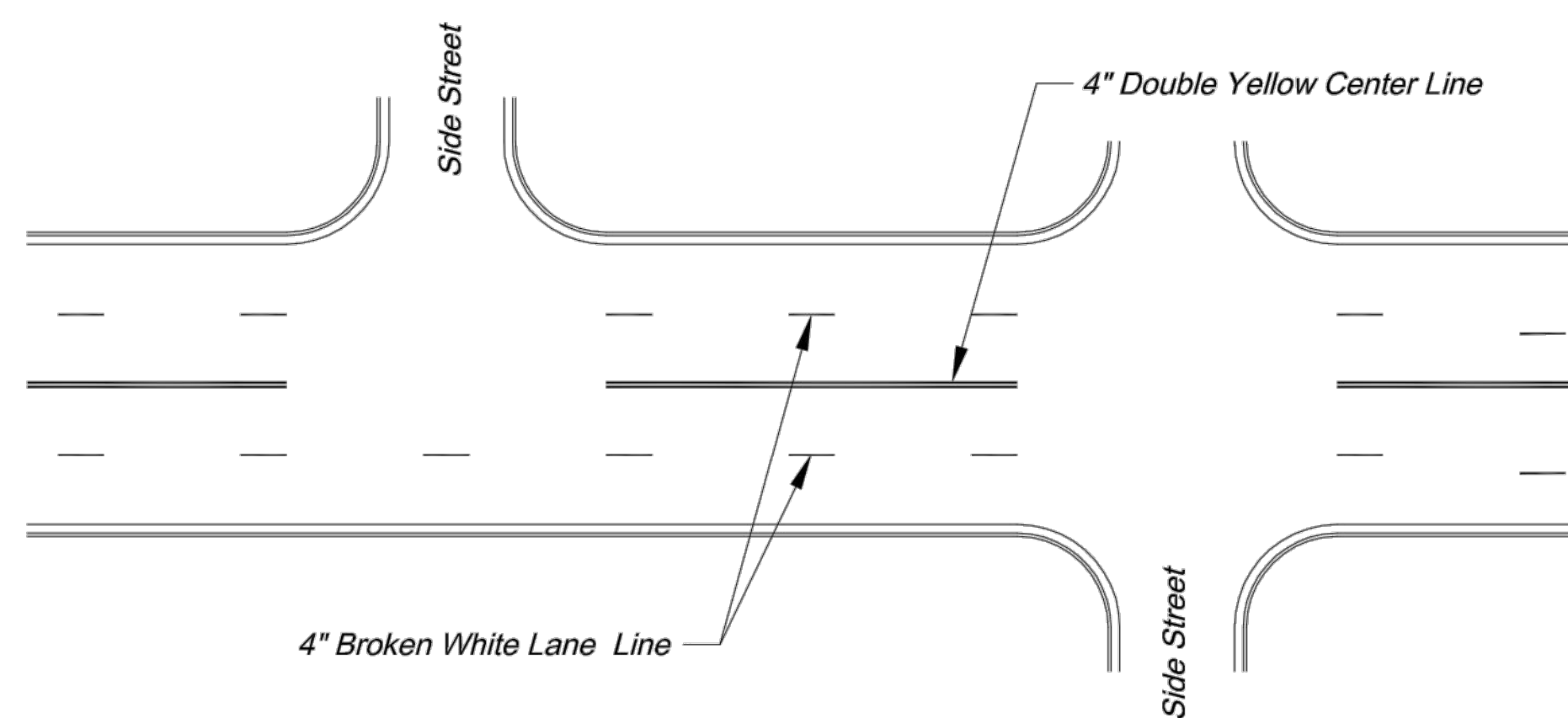


TYPICAL MIDBLOCK OR SCHOOL CROSS WALK

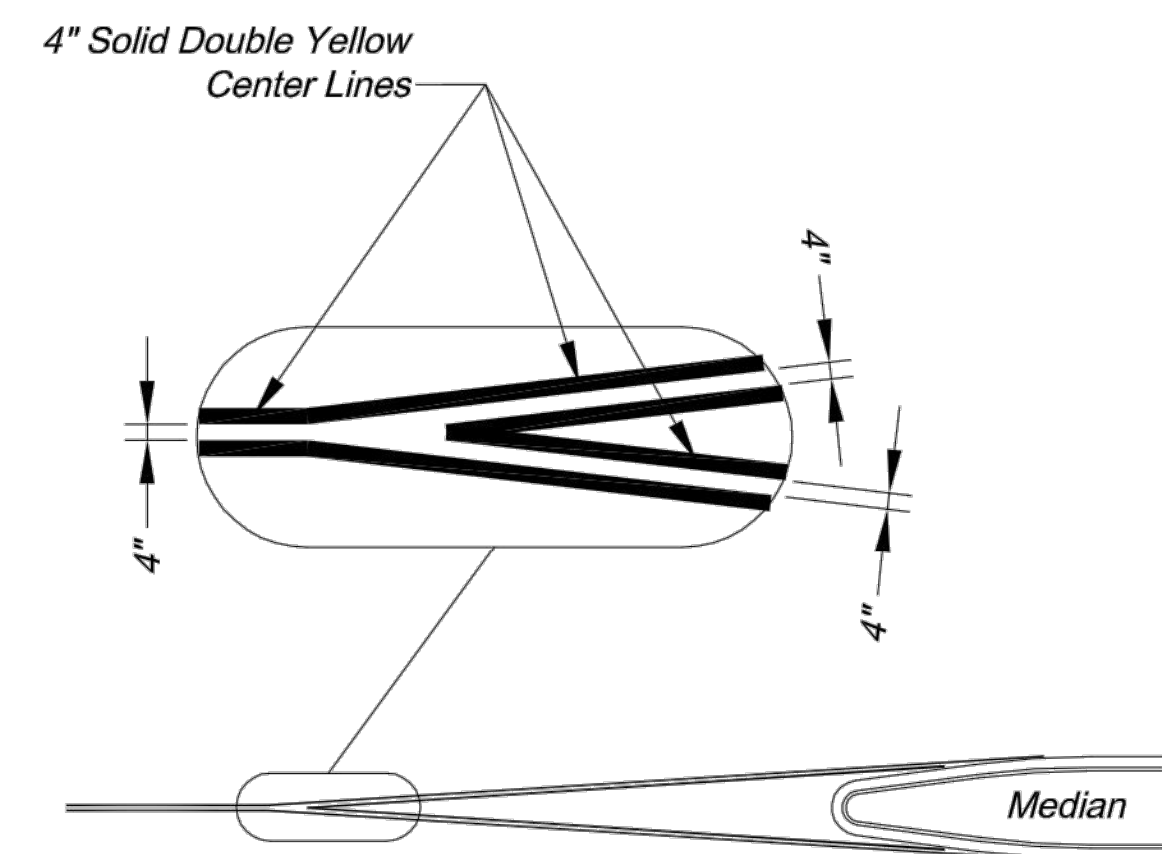


ARROW AND SYMBOL DETAILS

- NOTES:
1. All arrow and symbol markings shall be white, and shall be centered in their respective traffic lanes.
 2. Right-turn and combination right-turn/straight arrows are reverse of arrows shown.



TYPICAL MARKINGS FOR FOUR-LANE UNDIVIDED ROADWAY



TYPICAL MEDIAN NOSE CENTER LINE DETAIL

PAVEMENT MARKING GENERAL NOTES:

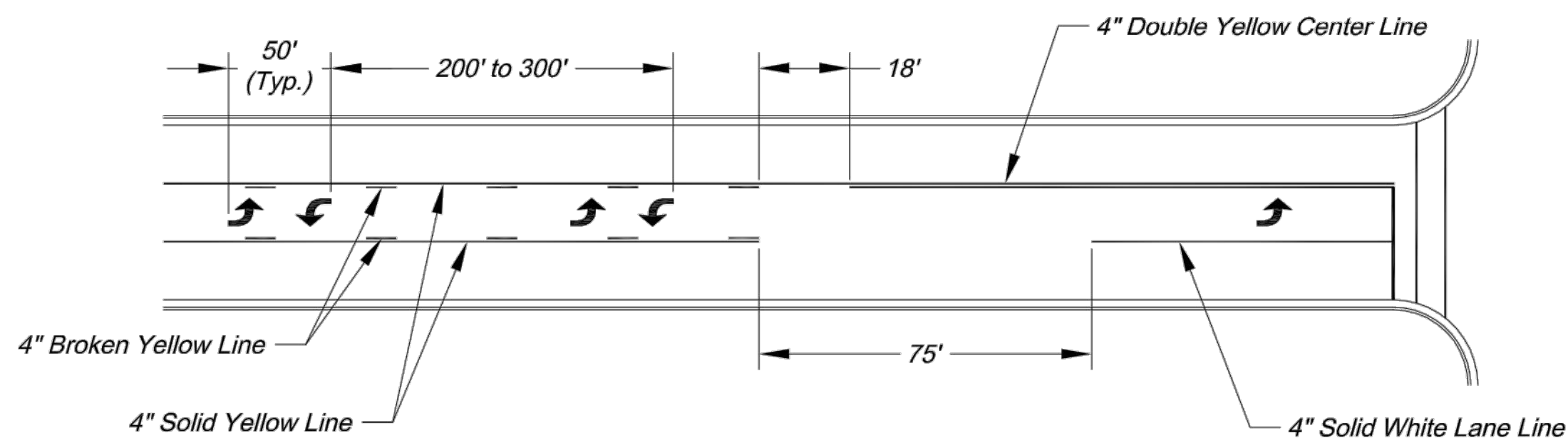
1. All pavement markings shall be in accordance with the latest edition of the *Manual on Uniform Traffic Control Devices (MUTCD)*.
2. All words and symbols shall conform to the latest edition of *Standard Alphabets for Highway Signs and Pavement Markings* printed by the U.S. Department of Transportation, Federal Highway Administration.
3. Pavement markings, either temporary or permanent are required at all times if the roadway is open to traffic.
4. All pavement markings that conflict with the desired markings shall be completely removed. Removals shall not leave the road surface scarred with an image that misleads traffic. Any excess damage or scarring of pavement shall be repaired at the Contractor's expense.
5. The proposed permanent markings shall be laid out by the Contractor in advance of the marking installation. Markings shall not be applied until the layout has been approved by the City Traffic Engineer.
6. Center lines shall be marked on all undivided arterial streets, and any other undivided street with more than two lanes and/or a speed limit of 30 mph or more.
7. Edge lines shall be marked on all non-curbed streets.

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809

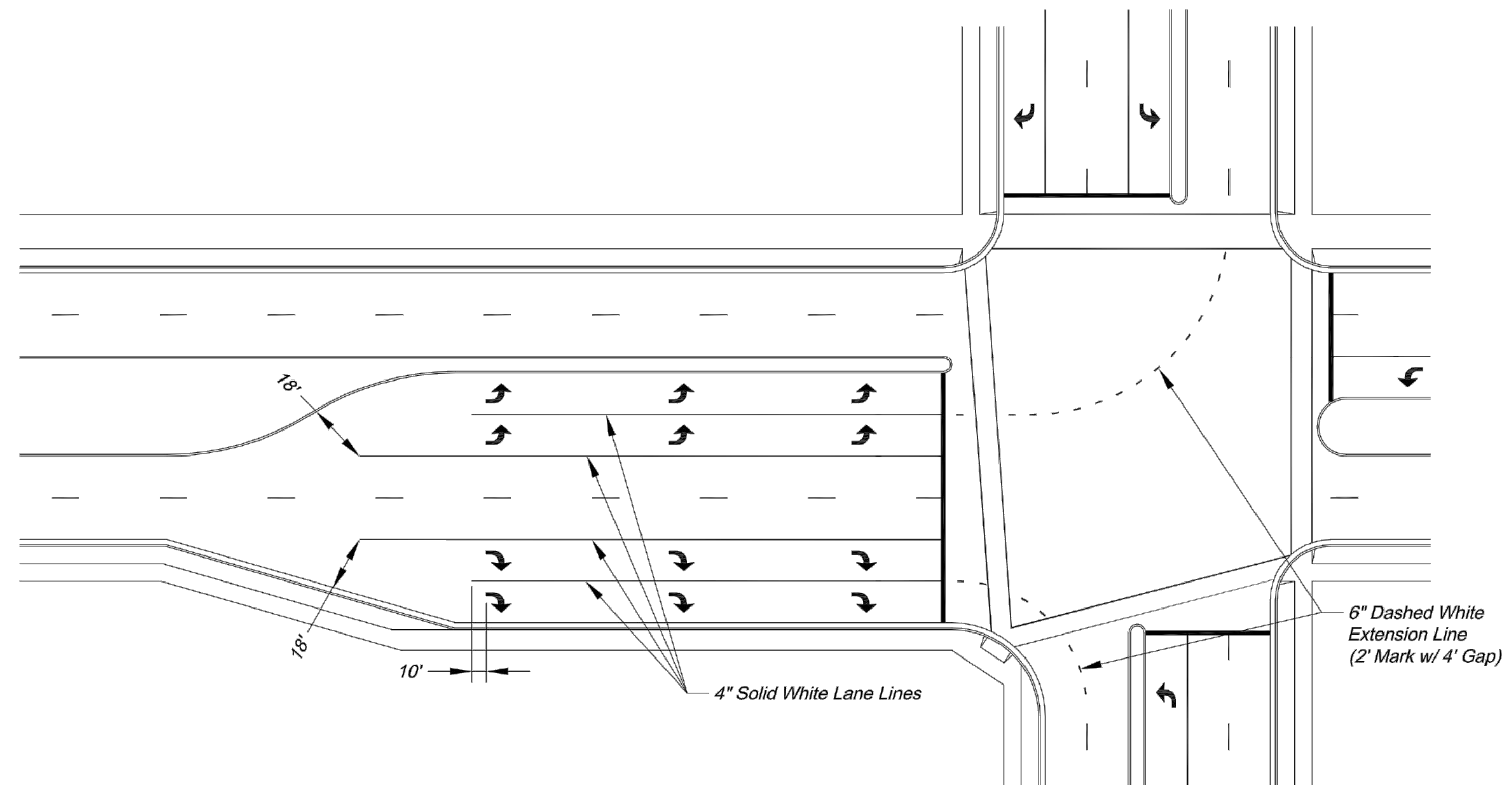


Project:
ROADWAY MARKING DETAILS
Sheet Name: STANDARD DRAWING PM-1

Drawn By: AS
Checked By: JW
Date: 09/09/2009
Project#

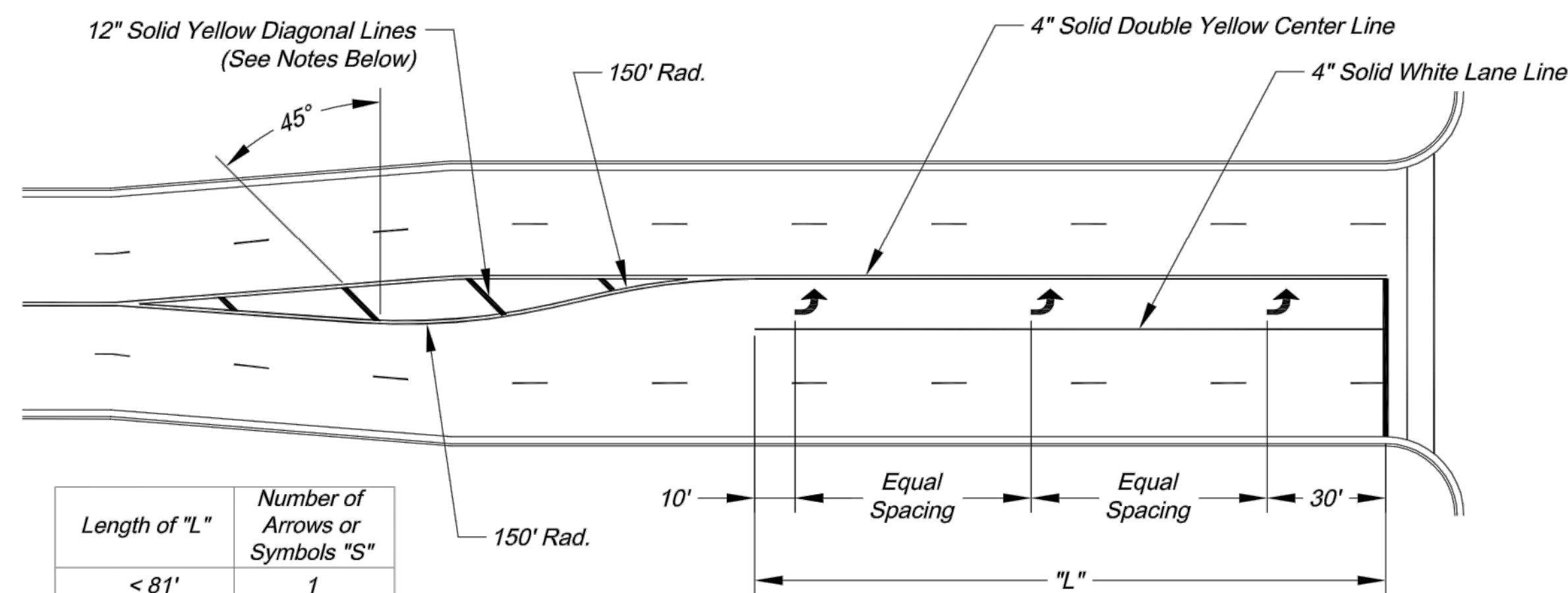


TYPICAL MARKINGS FOR TWO-WAY LEFT-TURN LANE



TYPICAL DUAL TURN LANE MARKINGS

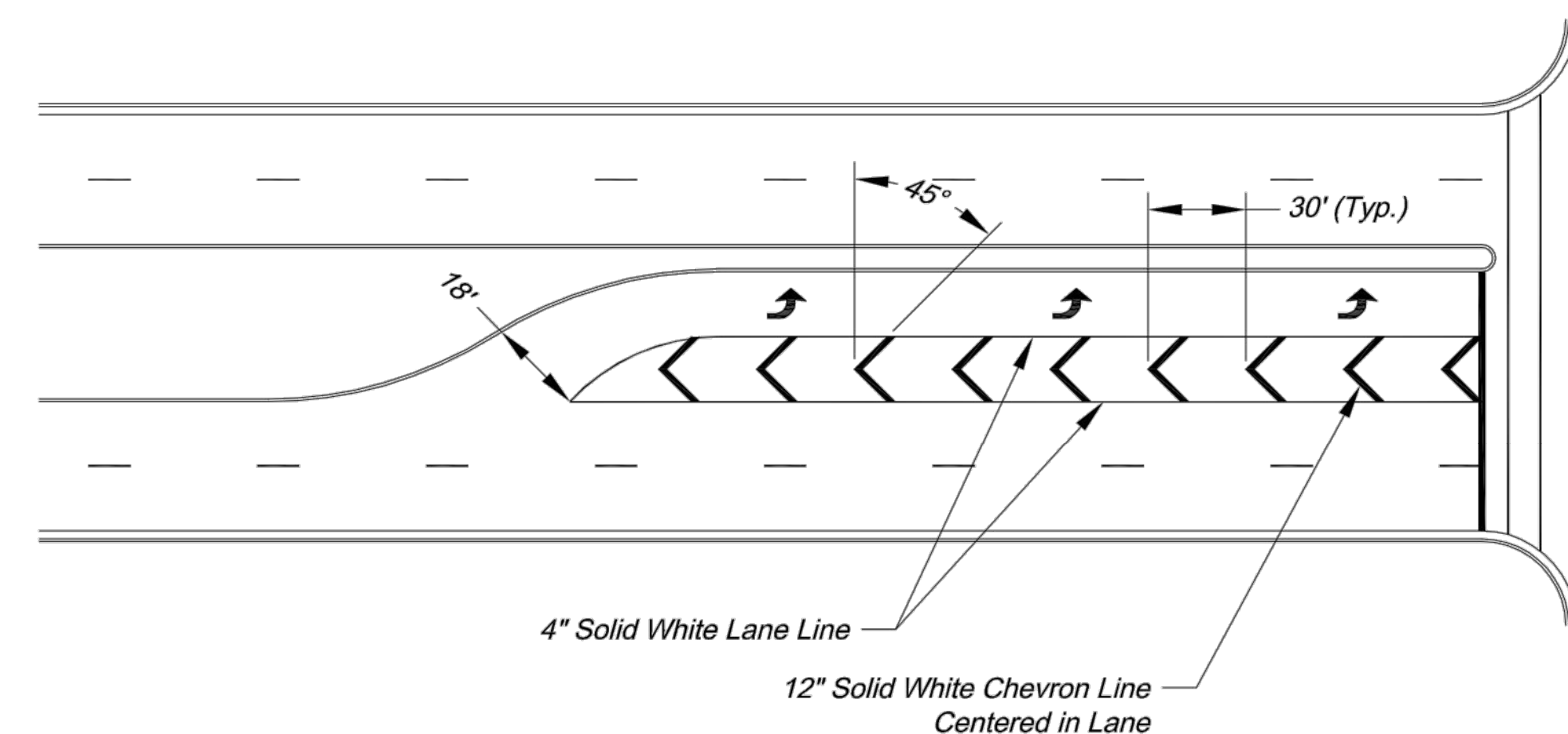
NOTE:
1. Dashed extension lines shall not extend through crosswalks.



Length of "L"	Number of Arrows or Symbols "S"
< 81'	1
81' - 120'	2
121' - 200'	3
201' - 280'	4
281' - 360'	5
361' - 440'	6

TYPICAL TURN LANE MARKINGS

NOTES:
1. Diagonal lines are required between centerlines if the width of the area between the center lines is greater than 12' and/or the length of the area between center lines is greater than 250'.
2. Diagonal lines should be spaced at 5' increments, equal to the posted speed limit.
3. Equal Spacing is calculated as $(L - 40) / (S - 1)$.
4. When a through lane of traffic terminates as a mandatory turn lane, Arrow and "ONLY" symbols should be marked in the turn lane, in alternating order. The first and last symbols should be Arrows.



TYPICAL STRIPED OUT TURN LANE MARKINGS

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809



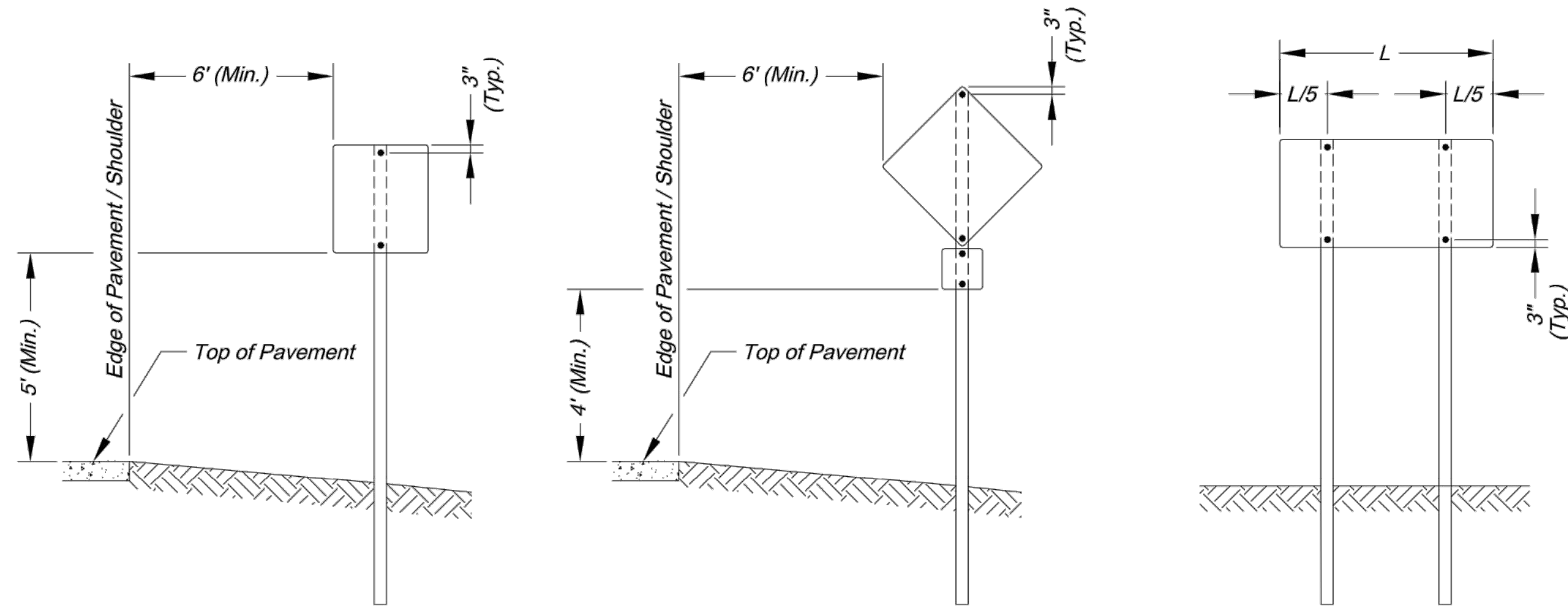
INTERSECTION MARKING DETAILS

STANDARD DRAWING PM-2

Project:

Sheet Name:

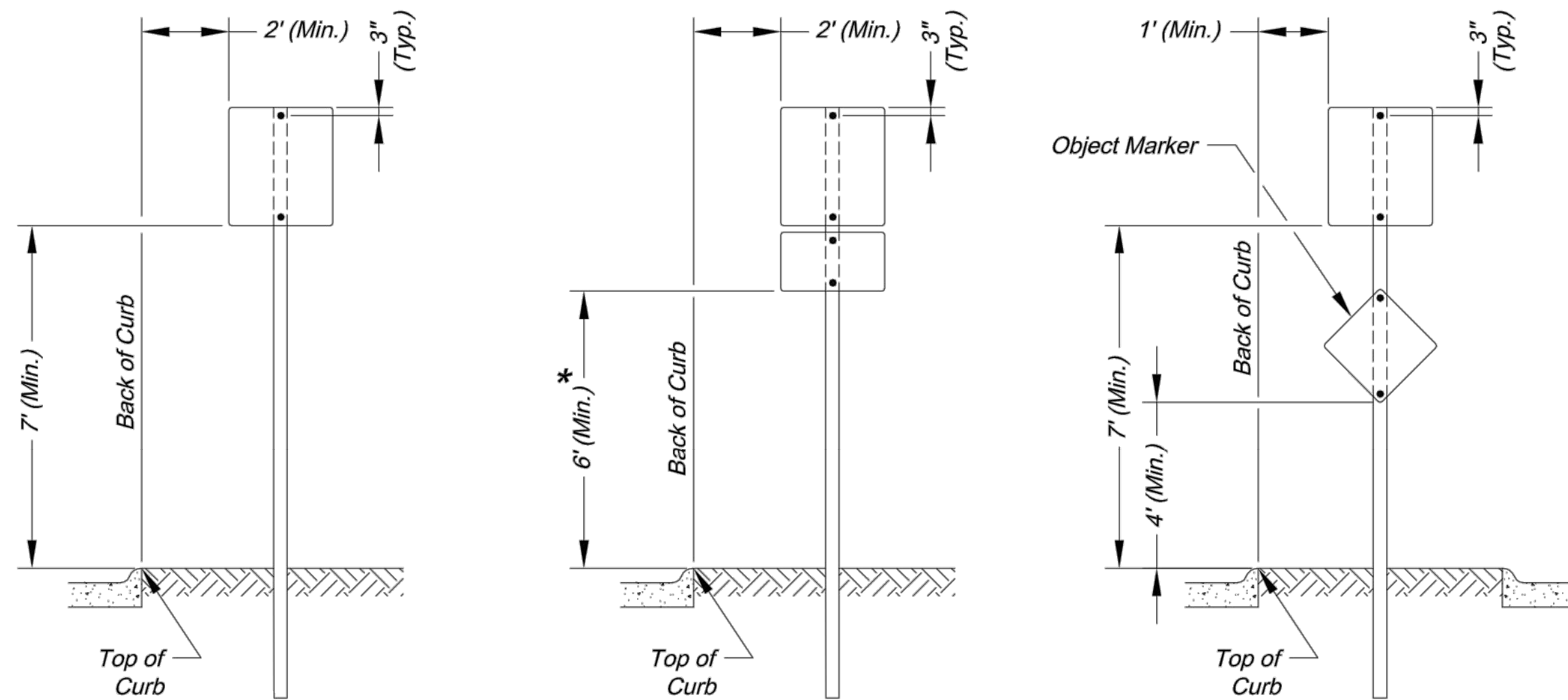
Drawn By: AS
Checked By: JW
Date: 09/09/2009
Project#



SIGN INSTALLATION FOR NON-CURBED STREET

SIGN INSTALLATION WITH AUXILIARY SIGN FOR NON-CURBED STREET

SIGN INSTALLATION WITH TWO SIGN POSTS



SIGN INSTALLATION FOR CURBED STREET

SIGN INSTALLATION WITH AUXILIARY SIGN FOR CURBED STREET

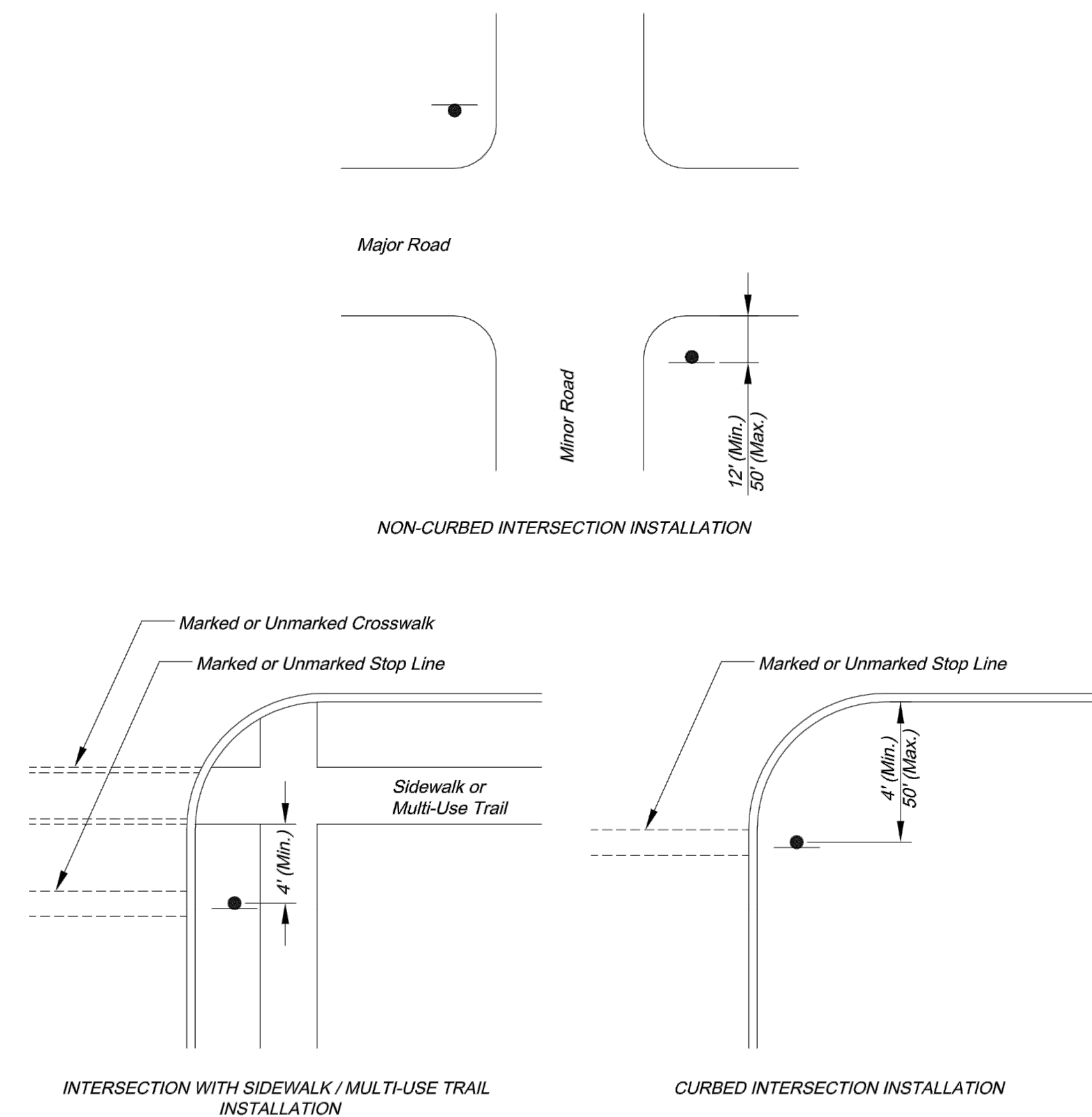
SIGN INSTALLATION FOR RAISED MEDIANS

SIGN MOUNTING DETAILS

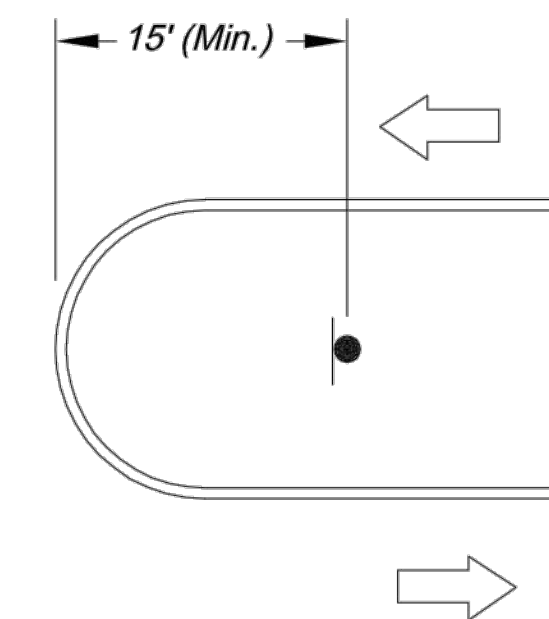
* The height to the bottom of a sign when it is located in a pedestrian walkway or extends into a walkway shall be a minimum of 80 inches above the walkway.

NOTE:

- Generally, the sign mounting height should not be more than 1' greater than the minimum mounting height.



CONTROL SIGN LOCATION



MEDIAN SIGN LOCATION

NOTES:

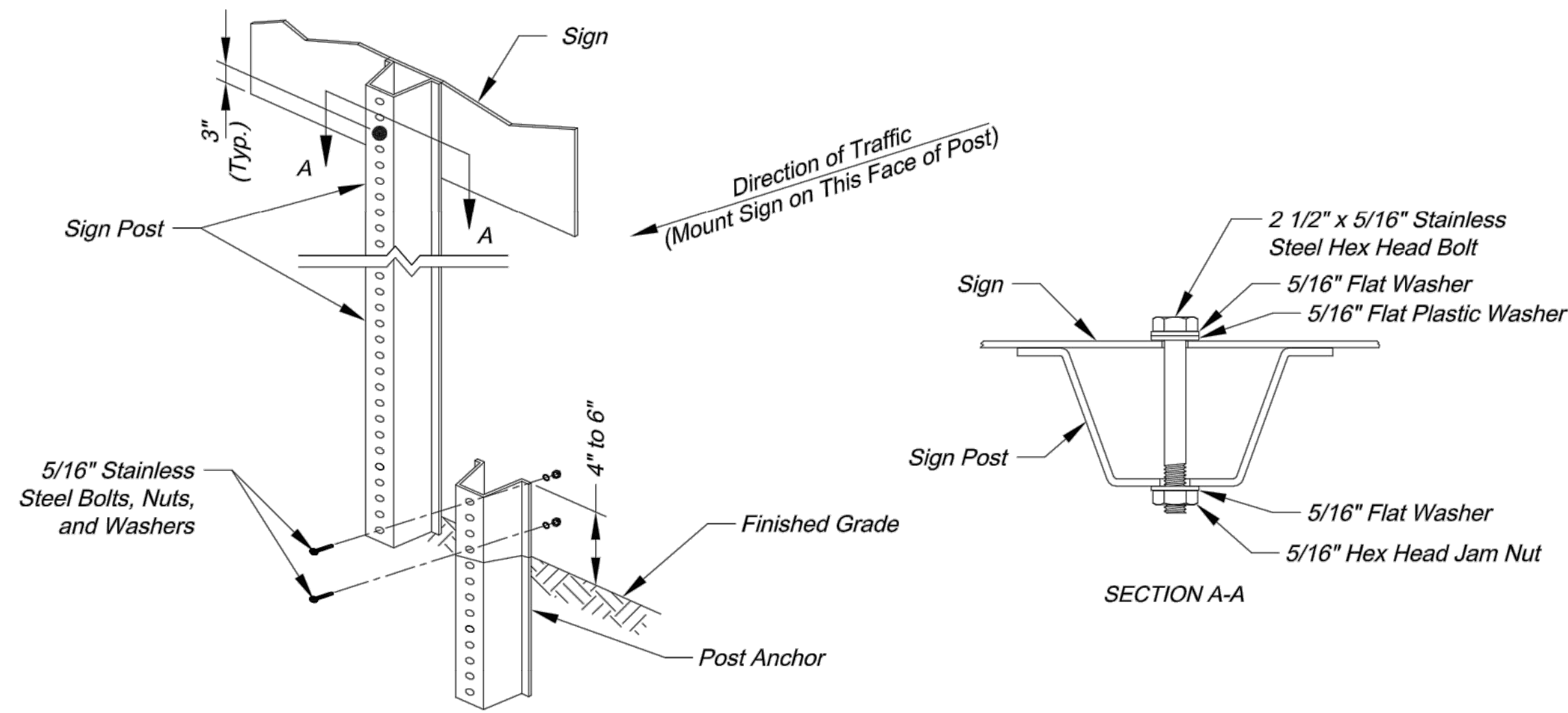
- A 4" P.V.C. sleeve shall be installed in new concrete medians at each location where a sign is to be installed.
- For existing concrete medians, a 4" hole shall be cored into the concrete.

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Project: SIGN MOUNTING DETAILS
Sheet Name: STANDARD DRAWING SN-1

Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project#



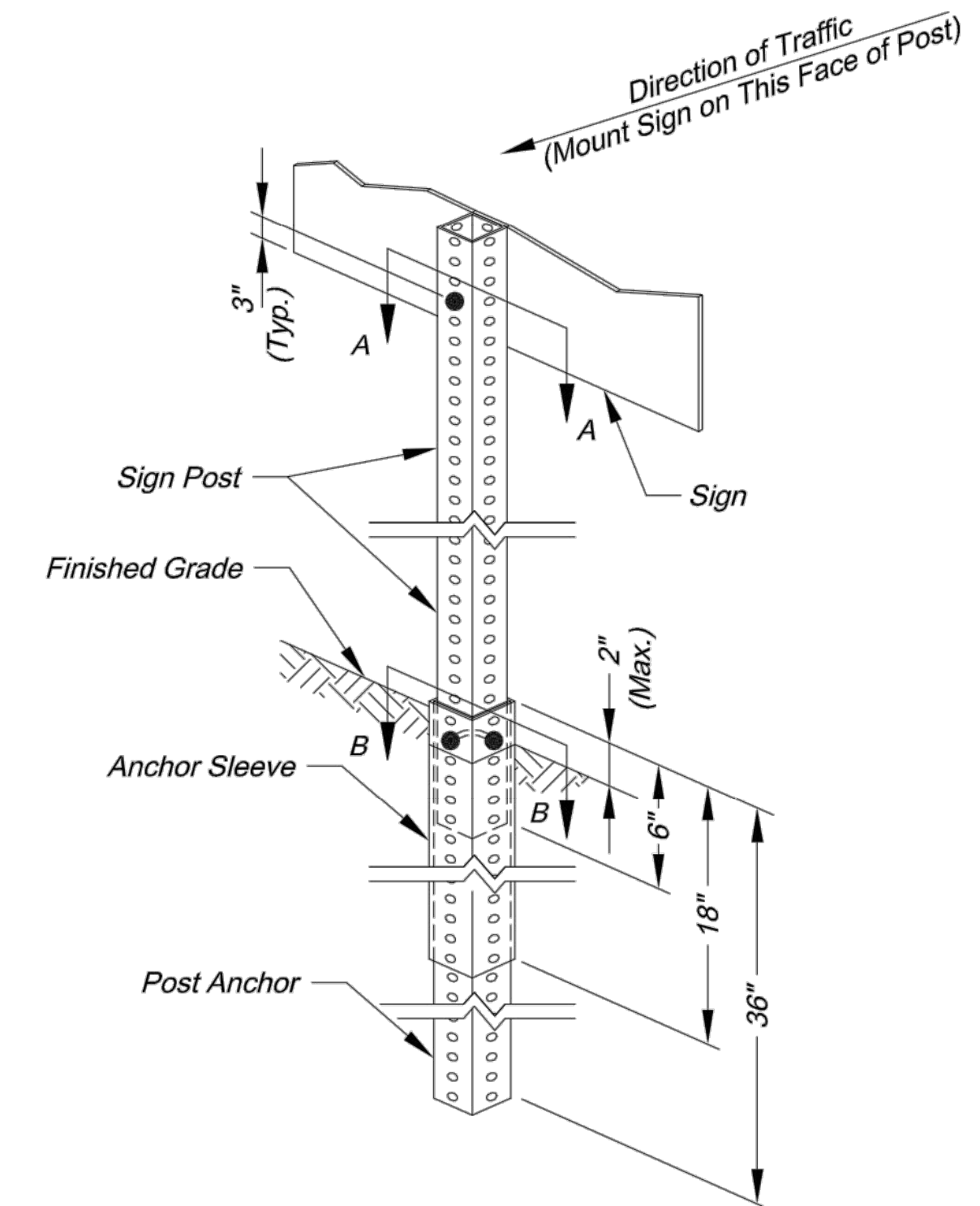
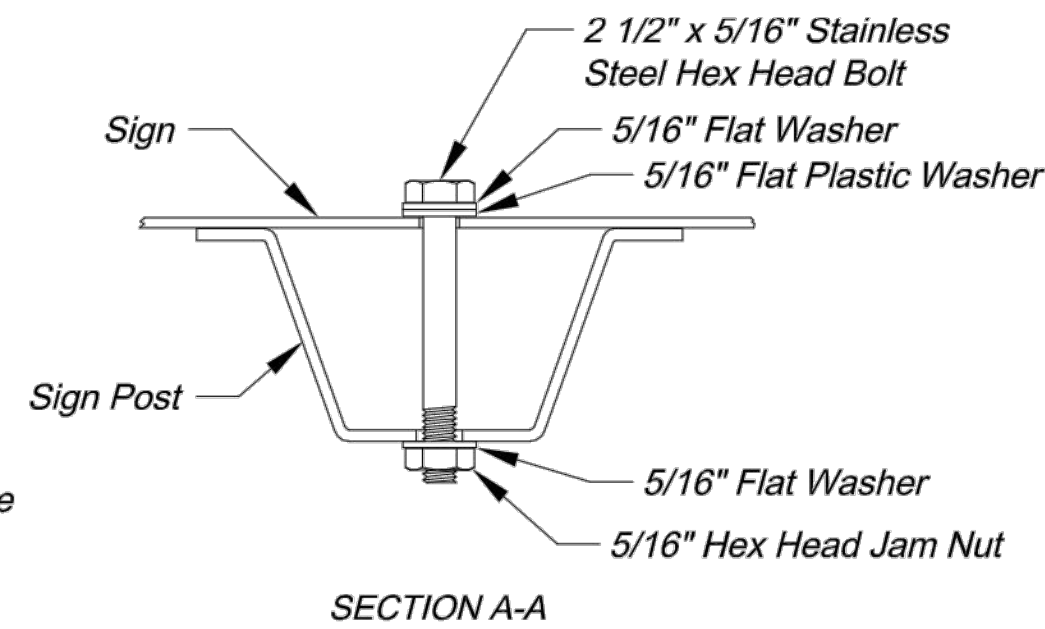
U-STEEL POST DETAILS

U-STEEL POST NOTES:

1. Splice shall be positioned entirely between finished grade line and 18" above finished grade line. Only one splice will be allowed per post.
2. U-Steel post shall be 3 lb./ft., galvanized according to ASTM A123.
3. U-Steel post can be used for installation of signs with an area of less than 2.5 square feet.
4. All posts shall be embedded a minimum of 3 feet.

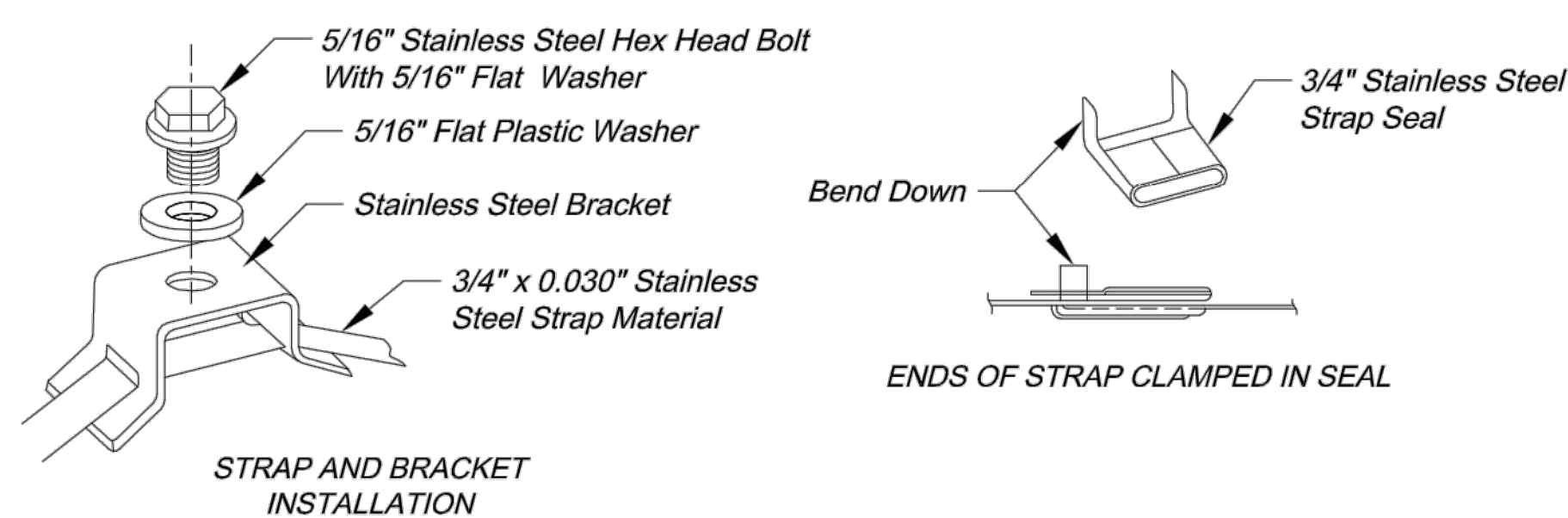
PERMANENT SIGNING GENERAL NOTES:

1. All signing shall be in accordance with the latest edition of the *Manual on Uniform Traffic Control Devices (MUTCD)*.
2. The Contractor is responsible for avoiding any and all utilities when installing sign posts, whether the utility is indicated on the plans or not.
3. All workmanship and materials shall be subject to the inspection and approval of the Public Works Department of the City of Lee's Summit.
4. The Contractor shall stake the location of all sign posts to be installed. The City Inspector shall inspect the staking prior to installation. Minor relocation to avoid conflicts may be allowed with the approval of the City Traffic Engineer or designee.
5. Signs shown to be installed on the side of metal poles shall be mounted with stainless steel straps or wing brackets as detailed. No signs are to be installed on wood poles. See Traffic Signal Standard Drawings for the installation of signs on mast arms.
6. All post mounted signs shall be installed with breakaway anchors according to the Standard Drawings.
7. All existing signs will be used in place during construction and protected from damage unless otherwise indicated in the plans. If the Contractor damages any existing sign or posts during construction, the Contractor will be required to replace the damaged materials with new signs or posts of the same type and size at the Contractor's expense. The Contractor shall be responsible for removing and storing any signs that are to be reinstalled on the project. All equipment shall be reinstalled in good condition.
8. Existing permanent signs and posts removed by the Contractor for construction purposes which are not to be reinstalled shall be delivered to the City's Public Works Maintenance Facility (1971 SE Hamblen Road). The Contractor shall be responsible for removing and storing equipment in good condition and is fully responsible for the equipment until it is delivered.
9. All Stop, Yield, or street name signs shall be maintained in a conspicuous location for the driving public. All Stop and Yield signs removed for construction purposes can be temporarily erected in reflectorized drums (no less than 7 feet above the pavement surface) until they can be reinstalled. Any temporary Stop or Yield sign installation to be left in place overnight will require prior approval from the City Inspector.



SQUARE STEEL POST INSTALLATION SEQUENCE:

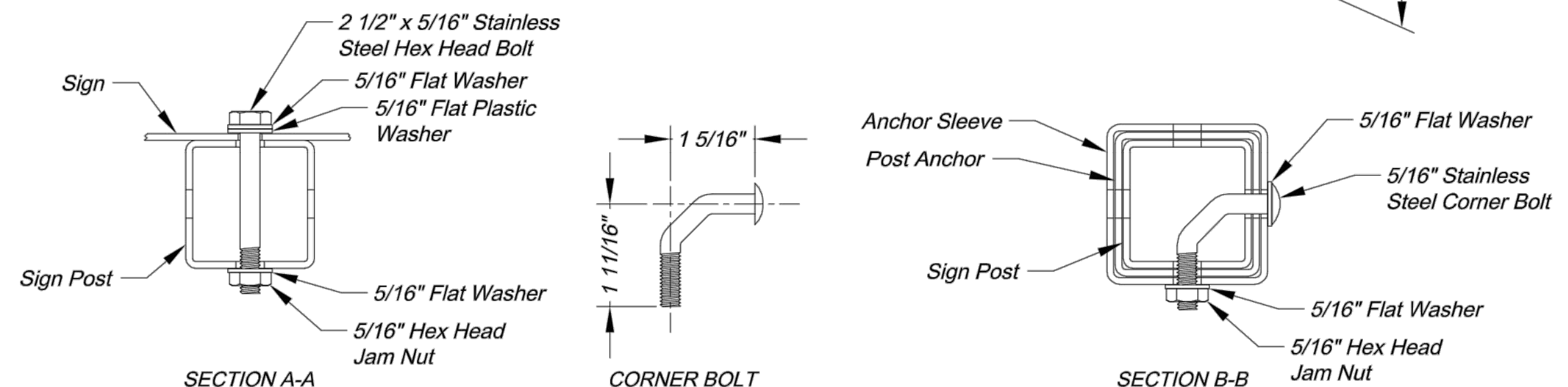
1. Sign post anchor driven partially into the ground using a drive cap with a sledge or power equipment.
2. Anchor sleeve slipped over anchor and drive into the ground together with the sign post anchor.
3. Insert sign post into the post anchor and bolt in place.



STRAP TYPE SIGN SUPPORT DETAILS

METAL POLE SIGN MOUNTING NOTES:

1. Signs on metal poles shall be attached with two brackets and stainless steel bands.
2. Holes in sign for attachment to the mounting brackets shall be offset a minimum of 2 inches from the edge of the sign.
3. Holes in sign shall be located such that the sign is level.
4. All strap, bracket, and seal materials should be Type 201 stainless steel.



SQUARE STEEL POST DETAILS

SQUARE STEEL POST NOTES:

1. Square steel sign posts and break-away anchor shall consist of the following materials:
 Sign Post - 14 Ga. 2" x 2" Square Steel Post
 Post Anchor - 12 Ga. 2 1/4" x 2 1/4" x 36" Square Steel Post
 Anchor Sleeve - 12 Ga. 2 1/2" x 2 1/2" x 18" Square Steel Post
2. 14 Gauge posts must meet a certified minimum yield strength of 60,000 psi.
3. In all installations the first hole above the finished grade line on the sign post, anchor, and anchor sleeve must be in line for the insertion of the corner bolt.
4. The maximum area for one sign post is 9.0 square feet. A sign or combination of signs with an area greater than 9.0 square feet will require two posts. Also, signs with a width greater than 36" (not including 36" x 36" diamond shaped signs) will require two posts.

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 220 SE GREEN STREET
 LEE'S SUMMIT, MISSOURI 64063



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SIGN POST DETAILS
 STANDARD DRAWING SN-2

Project:
 Sheet Name:

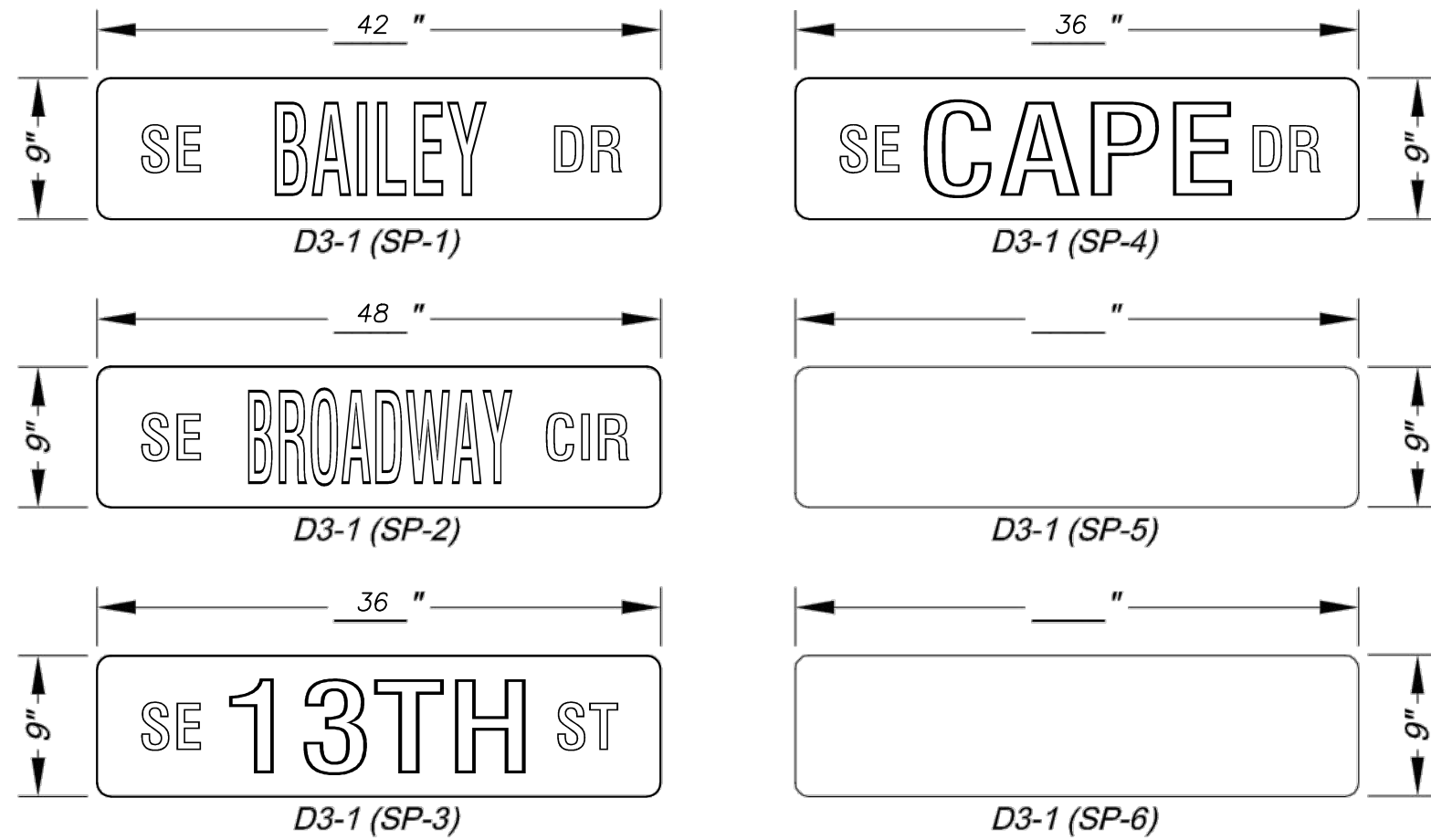
Drawn By: AS
 Checked By: JW
 Date: 08/26/2009
 Project#

STANDARD ABBREVIATION LISTS

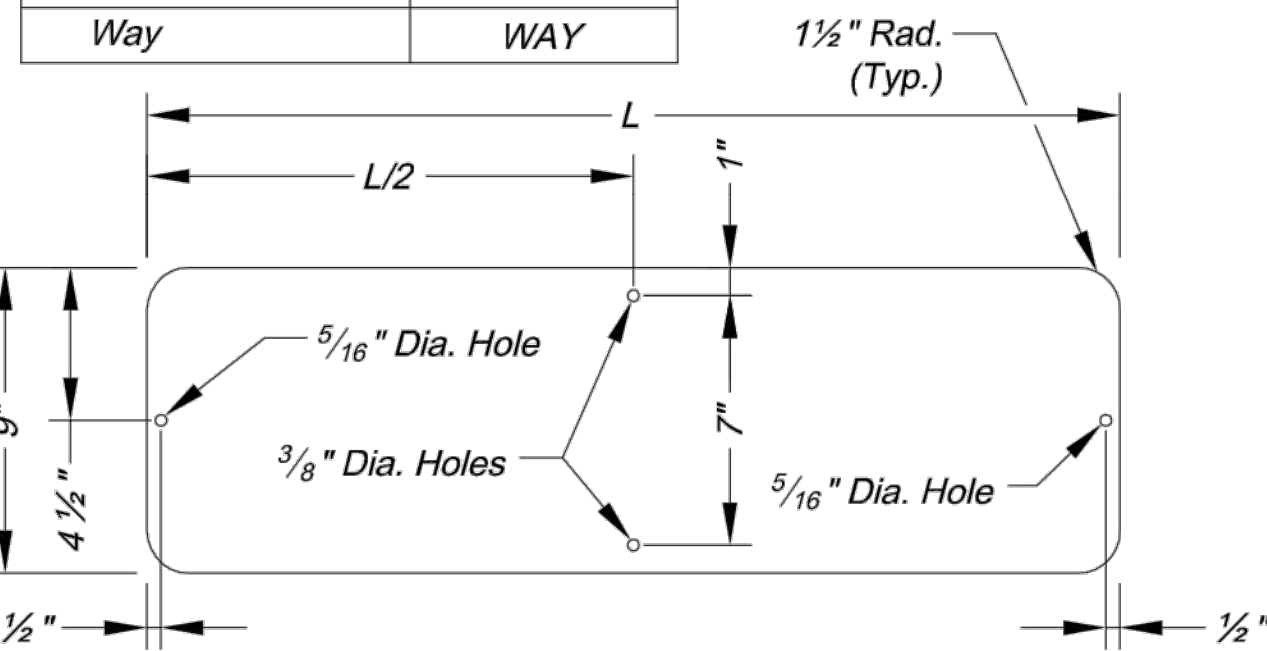
Named Streets		Numbered Streets	
Avenue	AVE	First	ST
Boulevard	BLVD	Second	ND
Circle	CIR	Third	RD
Creek	CR	Fourth to Tenth	TH
Court	CT		
Crossing	XING		
Drive	DR		
Highway	HWY		
Lane	LN		
Parkway	PKWY		
Place	PL		
Road	RD		
Street	ST		
Terrace	TER		
Trail	TRL		
Way	WAY		

STREET NAME SIGN QUANTITIES

Sign Designation	Sign Size	Sign Area (Sq. Ft.)	Number	Quantity (Sq. Ft.)
D3-1 (BAILEY RD)	9" x 42"	2.63	4	10.50
D3-1 (BROADWAY CIR)	9" x 48"	3.00	0	0.00
D3-1 (13TH ST)	9" x 36"	2.25	2	4.50
D3-1 (CAPE DR)	9" x 36"	2.25	2	4.50

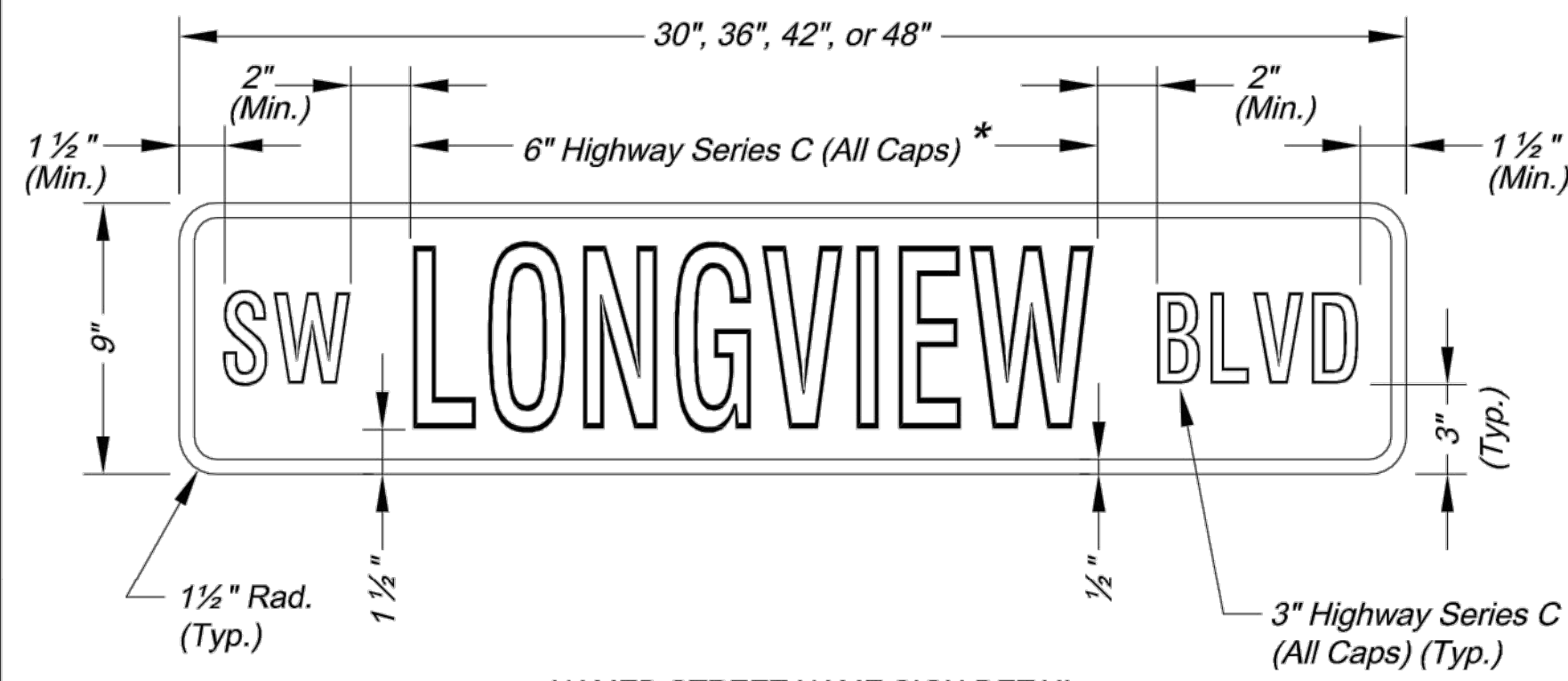


PROJECT SIGN DETAILS



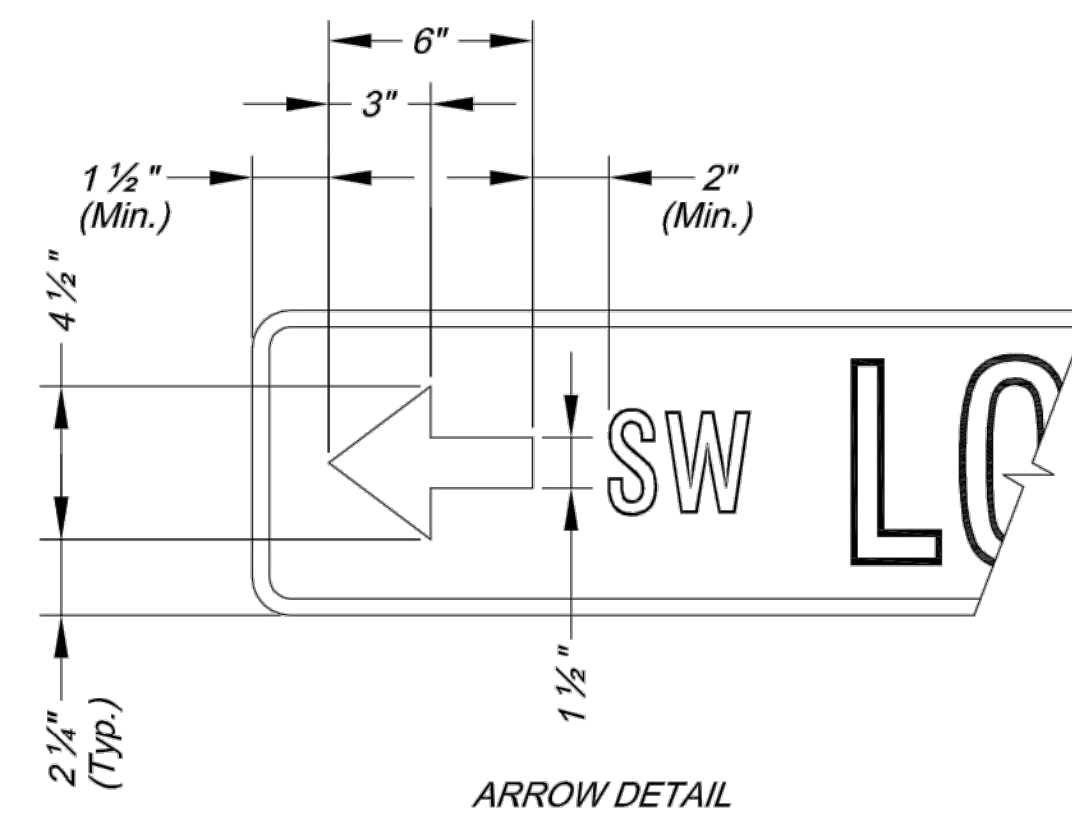
STREET NAME SIGN BLANK DETAILS

For Mounting on Square Steel Posts

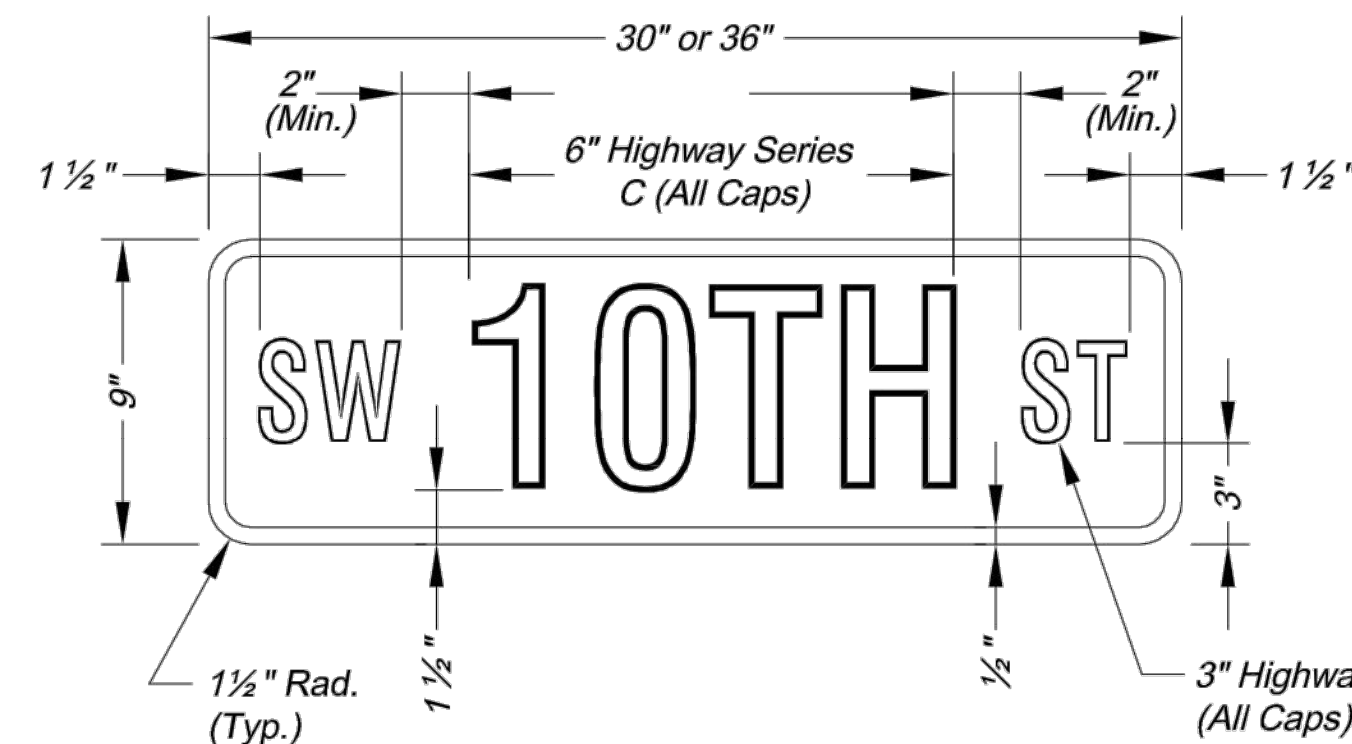


NAMED STREET NAME SIGN DETAIL

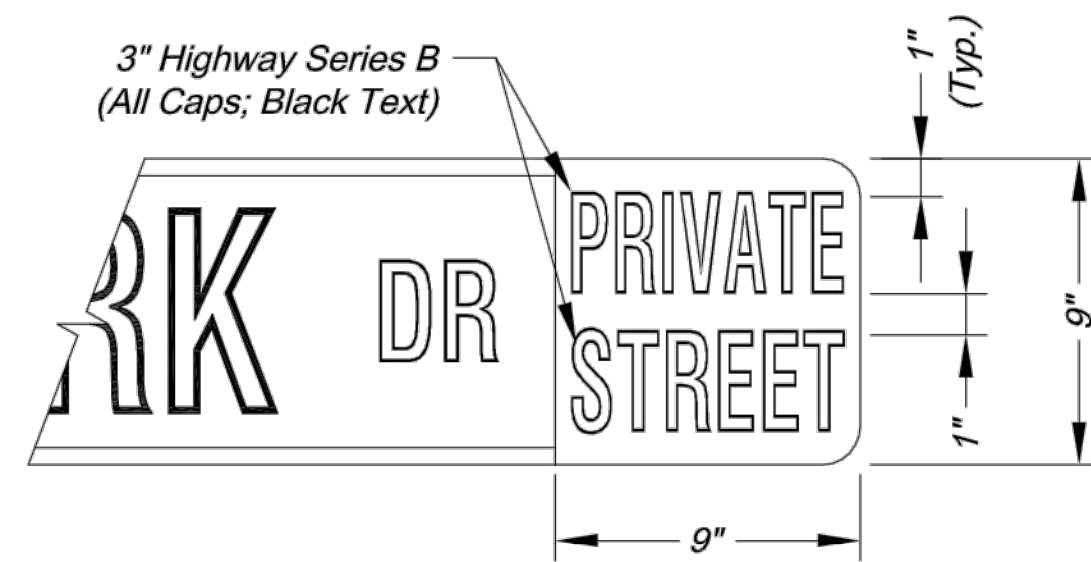
* Use Highway Series B (All Caps) in lieu of series C if necessary to fit text on a 36" sign blank.



ARROW DETAIL



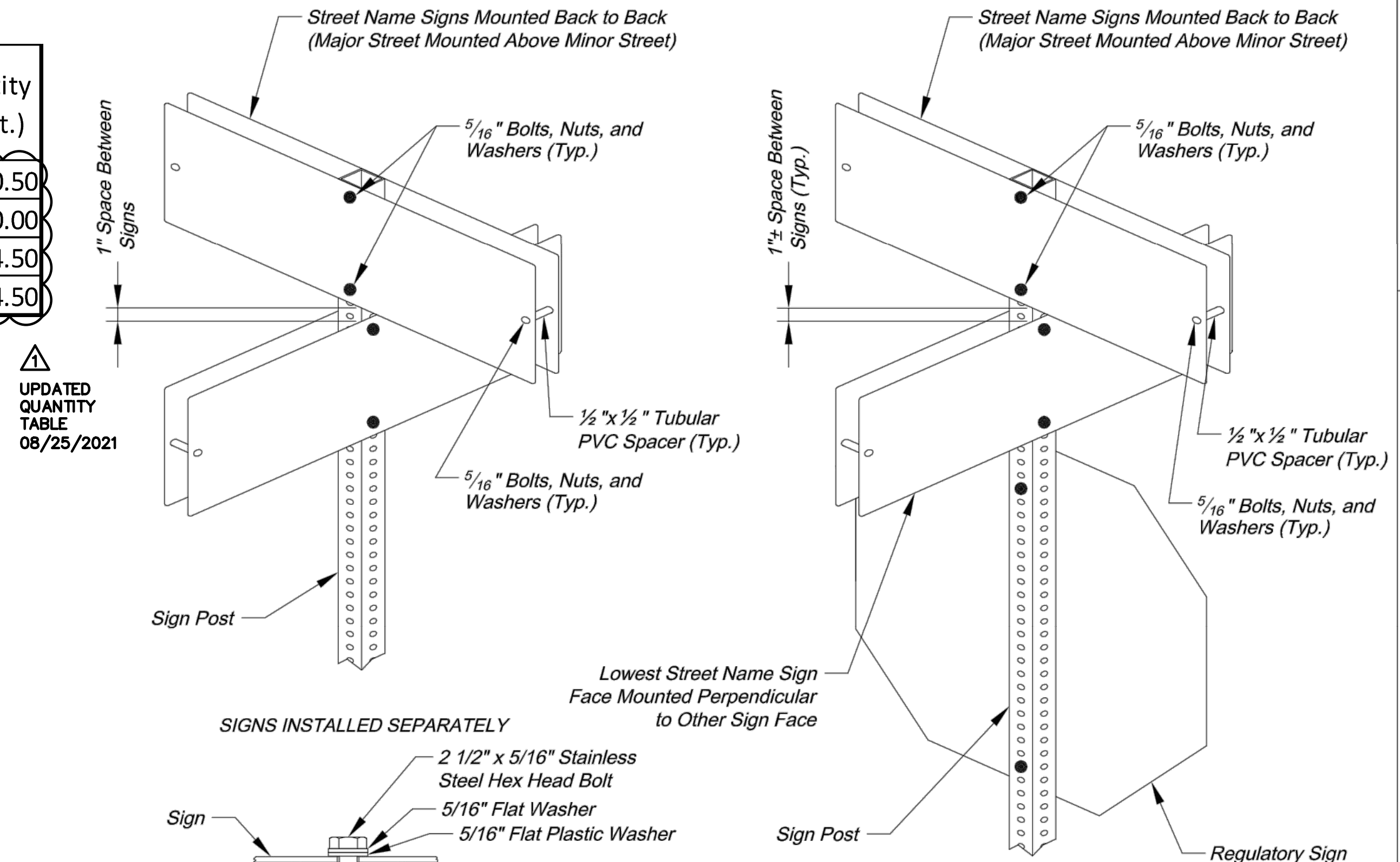
NUMBERED STREET NAME SIGN DETAIL



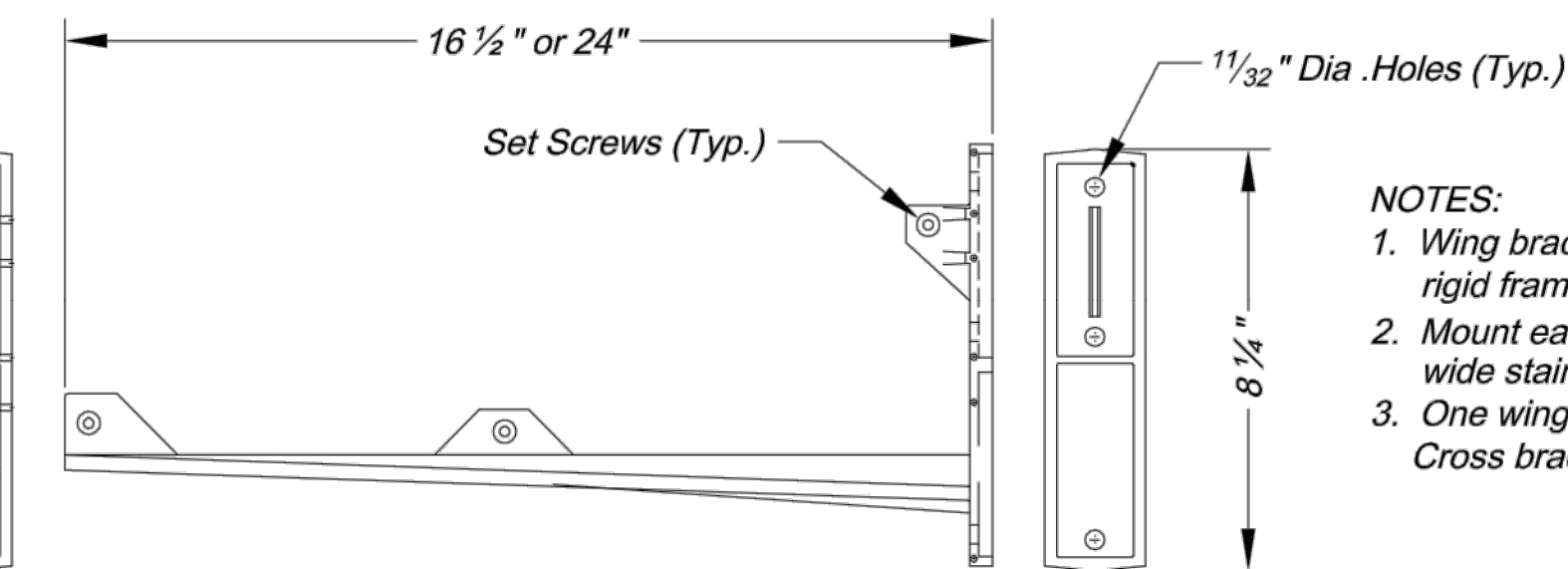
PRIVATE STREET TAG DETAIL

- NOTES:
- For all street name signs, the legend shall be white and the background shall be green.
 - Arrows shall be added to street name signs where the name of a street changes at an intersection. Street name signs with arrows are to be installed on each side of the intersection to indicate the change in names. Arrows shall be white.
 - The "PRIVATE STREET" tag should be added to the end of street name signs to indicate where a street that is outside the right-of-way intersects a public street. The background for the "PRIVATE STREET" tag shall be yellow.

STREET NAME SIGN FACE DETAILS



SQUARE STEEL POST MOUNTING DETAILS



WING BRACKET MOUNTING DETAILS

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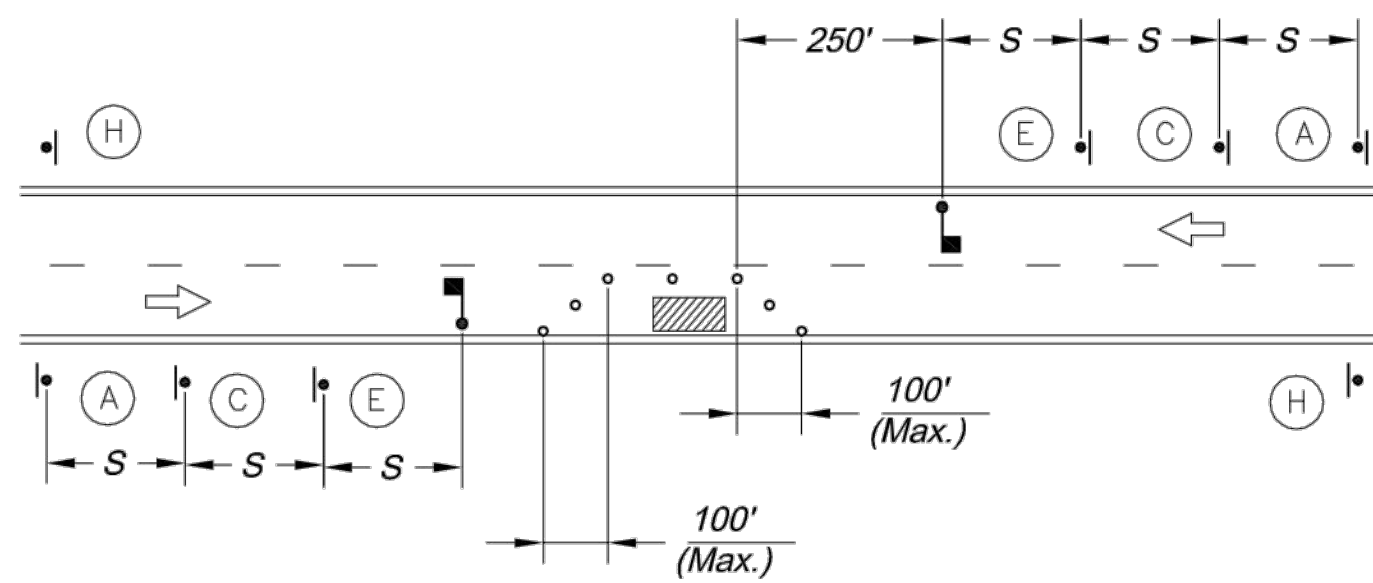


Project: STREET NAME SIGN DETAILS
Sheet Name: STANDARD DRAWING SN-3

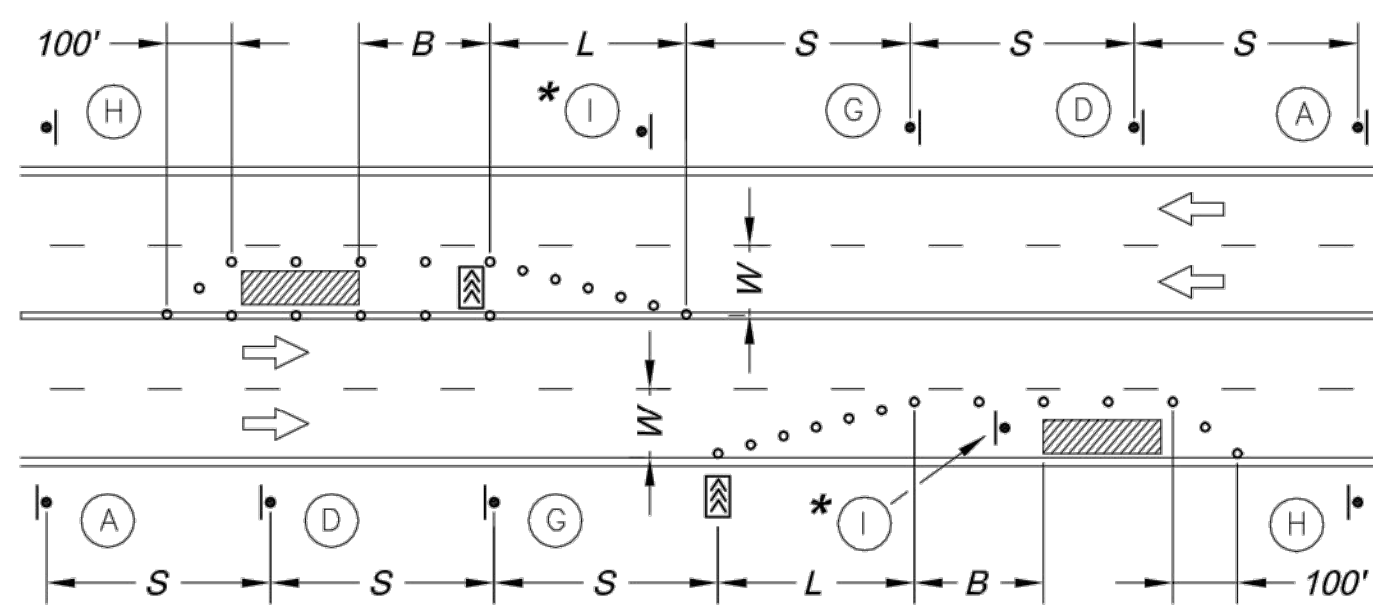
Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project#

SYMBOL LEGEND

- Work Area
- Channelizer
- Sign
- Arrow Panel
- Barricade
- Flagger
- Direction of Travel

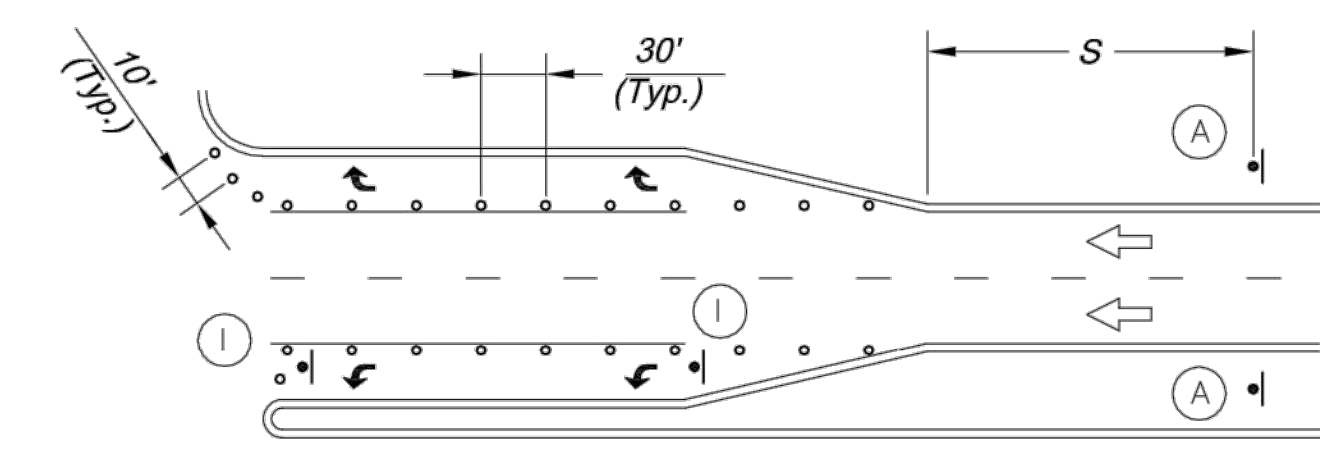


LANE CLOSURE - TWO LANE STREET



LANE CLOSURE - FOUR LANE STREET

* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TURN LANE CLOSURE

Sign Spacing "S"	
Speed Limit (mph)	Spacing (Feet)
25	100
30 - 35	250
≥ 40	350

Speed Limit (mph)	Taper Dimensions (Feet)			Minimum Number of Channelizers
	Minimum Taper Length "L", per Lane Width "W"	10	11	
25	105	115	125	6
30	150	165	180	7
35	205	225	245	8
40	270	295	320	9
45	450	495	540	13

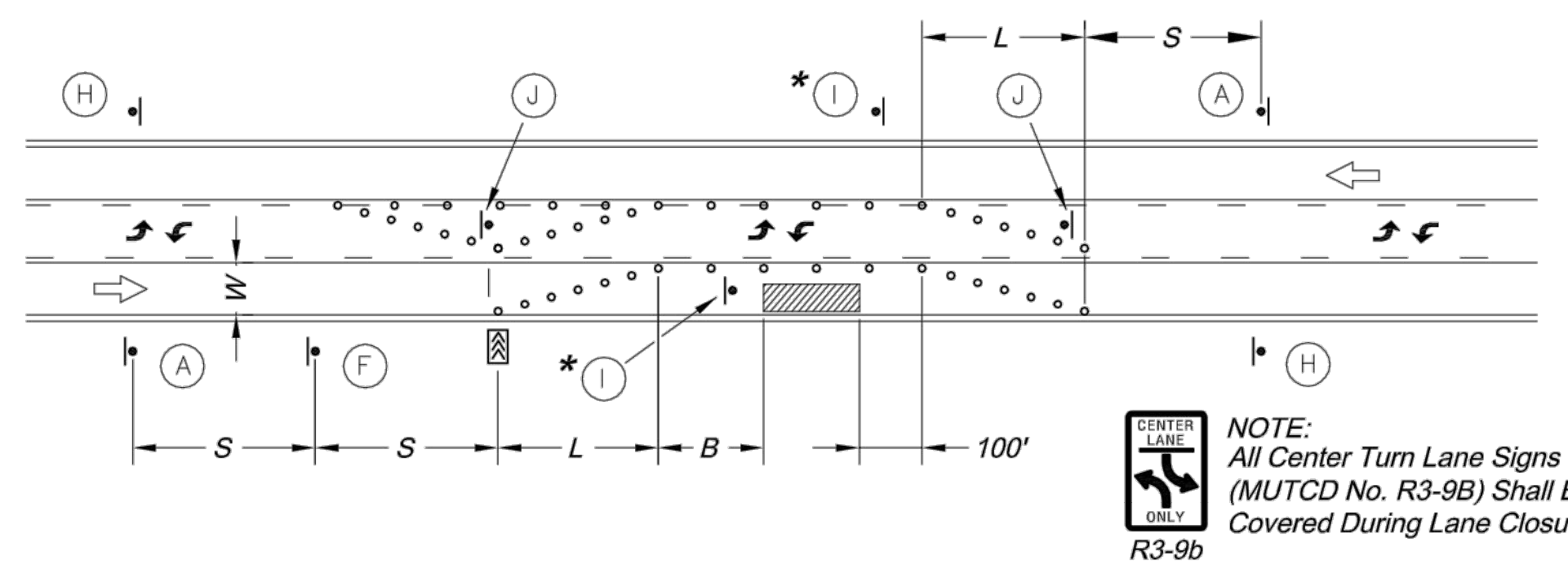
Guidelines for Length of Longitudinal Buffer Space "B"	
Speed Limit (mph)	Length (Feet)
25	35
30	55
35	85
40	120
45	170

Speed Limit (mph)	Maximum Channelizer Spacing	
	Within Taper (Feet)	Outside Taper (Feet)
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90

SIGN LEGEND

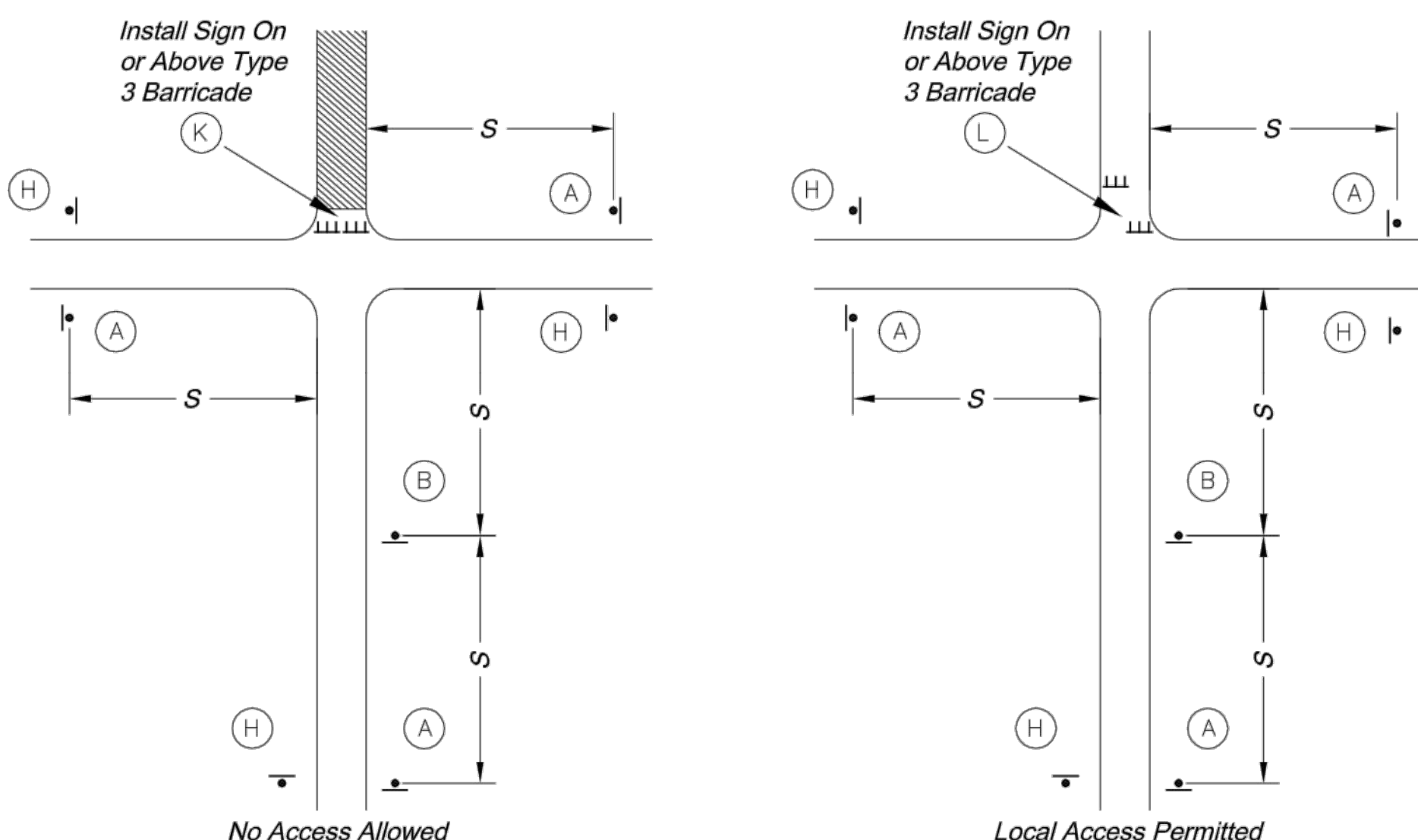
- ROAD WORK AHEAD (A) W20-1 36" x 36"
 - ROAD CLOSED AHEAD (B) W20-2 36" x 36"
 - ONE LANE ROAD AHEAD (C) W20-4 36" x 36"
 - RIGHT LANE CLOSED AHEAD (D) W20-5R 36" x 36"
 - LEFT LANE CLOSED AHEAD (E) W20-7a 36" x 36"
 - W1-4L (F) 36" x 36"
 - W4-2L (G) 36" x 36"
 - END ROAD WORK (H) G20-2 36" x 18"
 - R3-2 (I) 24" x 24"
 - R4-7a (J) 24" x 30"
 - R11-2 (K) 48" x 30"
 - R11-4 (L) 60" x 30"
- Use Only As Approved by City Traffic Engineer

TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET



LANE CLOSURE - THREE LANE STREET

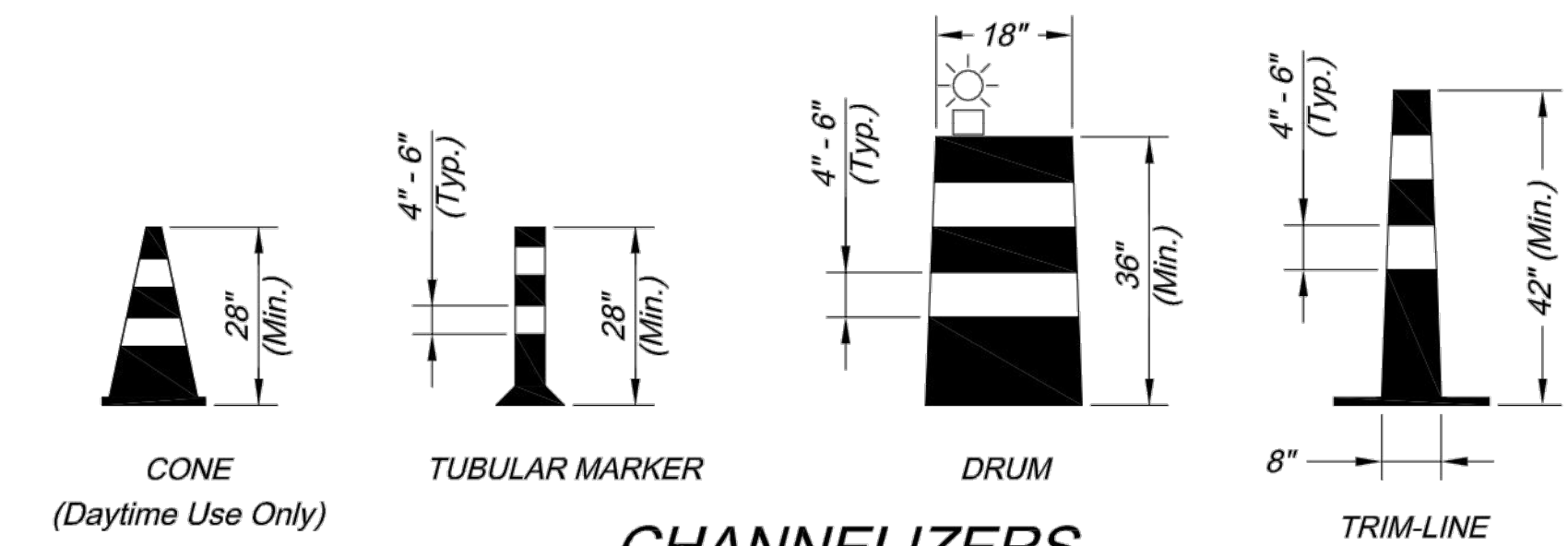
* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TYPICAL STREET CLOSURE

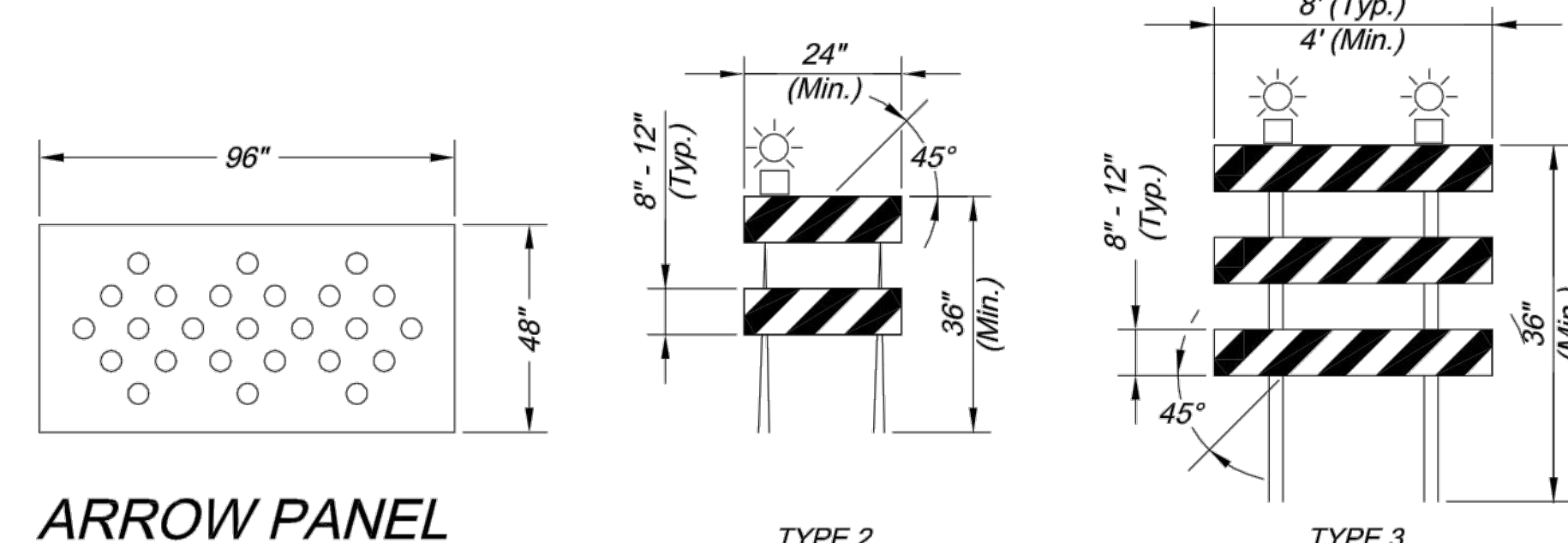
GENERAL NOTES:

- All signs, barricades, channelizers, markings and other traffic control devices shall conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- All traffic control devices shall be standard in size, shape, color, and message, in good condition, and retro-reflectORIZED. All signs shall be securely mounted with height and lateral location as described in the MUTCD.
- Warning lights shall be used on barricades in place at night and on warning signs which alert drivers about a change in alignment, traffic control, lane closure, or road closure.
- Flaggers shall be used where indicated on the plans, where construction vehicles interact with normal traffic, or where construction activities impose a restriction on traffic, as directed by the City Traffic Engineer. Where flaggers are used, advance signing shall be erected as shown in the details or as specified in the MUTCD. Flaggers shall meet the requirements in the MUTCD in regard to character, training, attire, and behavior.
- Trim-lines are the City's preferred channelizing device. Cones may not be used at nighttime.
- Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
- The Contractor shall use barricades, street plates, or fencing as needed to effectively shield pedestrian and vehicular traffic from exposed objects, excavations, and construction activities.
- Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
- No street shall be closed without the approval of the City Traffic Engineer. The Contractor shall notify the City Traffic Engineer at least 7 days in advance of any street closure. If a detour route around the closure is to be provided, all detour signing shall be as shown on a plan approved by the City Traffic Engineer.
- Construction vehicles parked along streets shall be located within the work area (traffic control) or where otherwise normally permitted. Construction materials, including traffic control and vehicles shall not restrict sight distance for vehicles exiting at streets or drives.
- Construction materials shall be kept off of sidewalks, consolidated in one location within City right-of-way, and removed daily unless otherwise approved by the Inspector. Dirt, mud, and other construction debris on streets and sidewalks shall be removed immediately.
- The Contractor shall not perform any work that will restrict vehicular traffic in any way between the hours of 7:00 a.m. and 9:00 a.m. or 4:00 p.m. and 6:00 p.m. Monday through Friday unless otherwise indicated in the specifications.
- All travel lanes should be at least 11 feet wide unless otherwise authorized by the City Traffic Engineer. A "Narrow Lanes" sign shall be installed in advance of a lane width reduction to less than 11 feet.
- All edge drop-offs of more than 2 inches and less than 4 inches should be protected by a wedge or barrier and all edge drop-offs greater than 4 inches shall have edge protection (see Traffic Control Specifications for edge treatment requirements).
- The "Workers" symbolic sign (MUTCD No. W21-1a) may be used instead of the "Road Work Ahead" sign for work with a duration of 12 hours or less. The "End Road Work" sign is not required to be installed after the "Workers" sign.
- No traffic signal shall be altered or modified in any way without a plan approved by the City Traffic Engineer.
- The Contractor shall be responsible for maintaining all traffic control devices on an around-the-clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.
- The traffic control requirements shown on these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the Contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of drivers, pedestrians, and workers at all times.
- Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the City Traffic Engineer or representative, the City may take one or more of the following actions:
 - Employ another agency to correct deficiencies in traffic control devices and deduct the cost from the Contractor's pay estimate,
 - Stop the work until deficiencies are corrected,
 - Suspend all pay estimates until deficiencies are corrected, or
 - Place the Contractor in default.



CHANNELIZERS

NOTE: White Bands On Barricades and Channelizers Shall Be Made From High Intensity Sheeting Material.



ARROW PANEL

BARRICADES

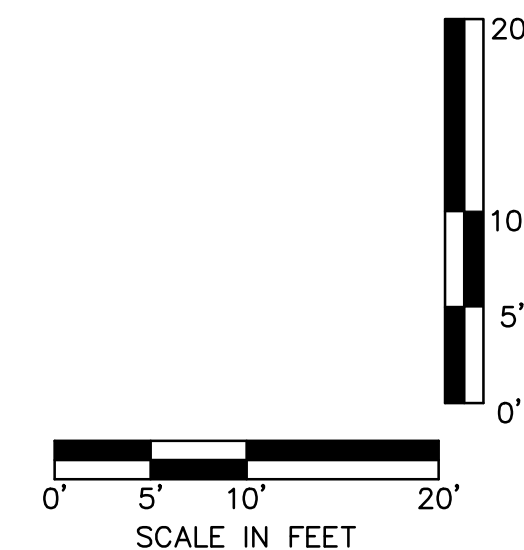
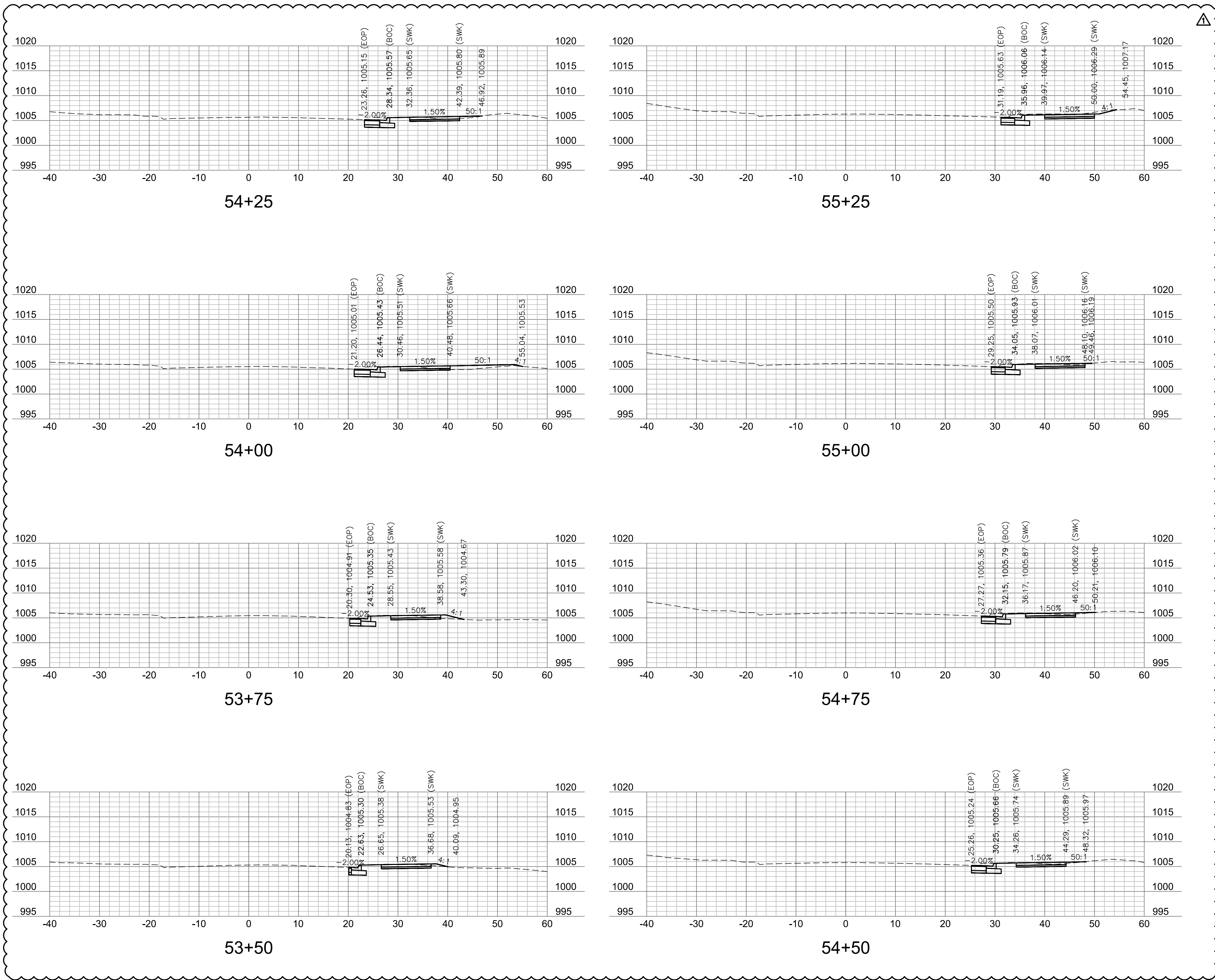
CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809



Project: BAILEY ROAD
TRAFFIC CONTROL DETAILS
Standard Drawing TC-1

Drawn By: JJW
Checked By: MP
Date: 12-10-2008
Project No.: X

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REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASI #29	RPH

BAILEY ROAD
CROSS SECTIONS

LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

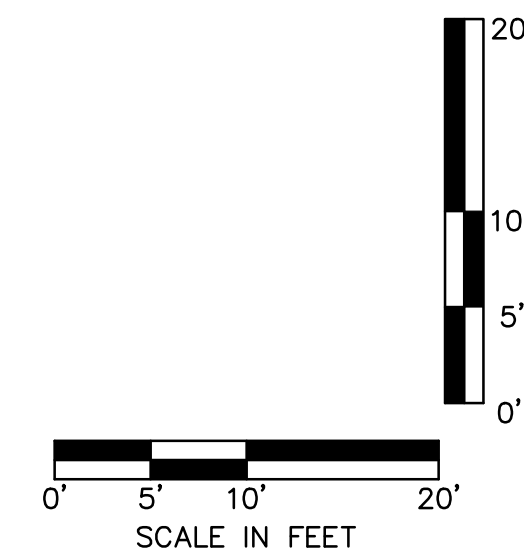
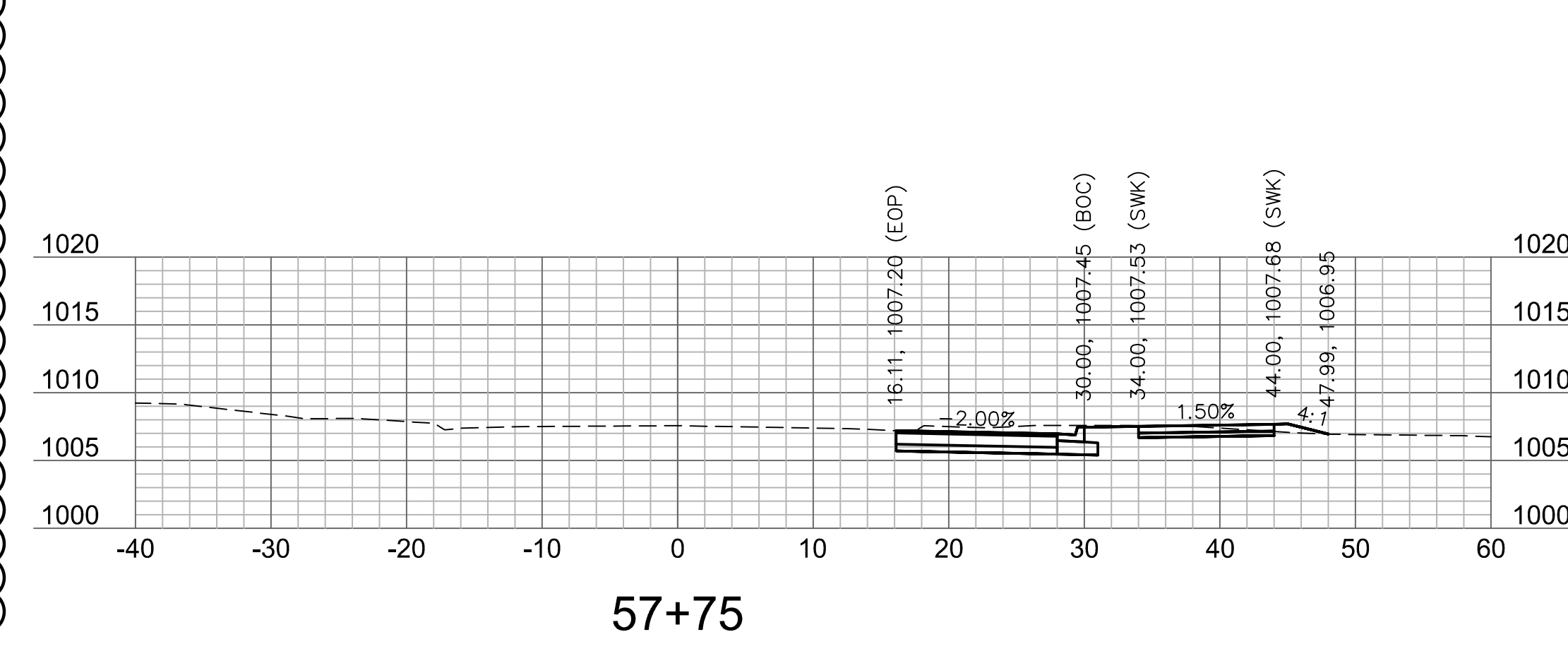
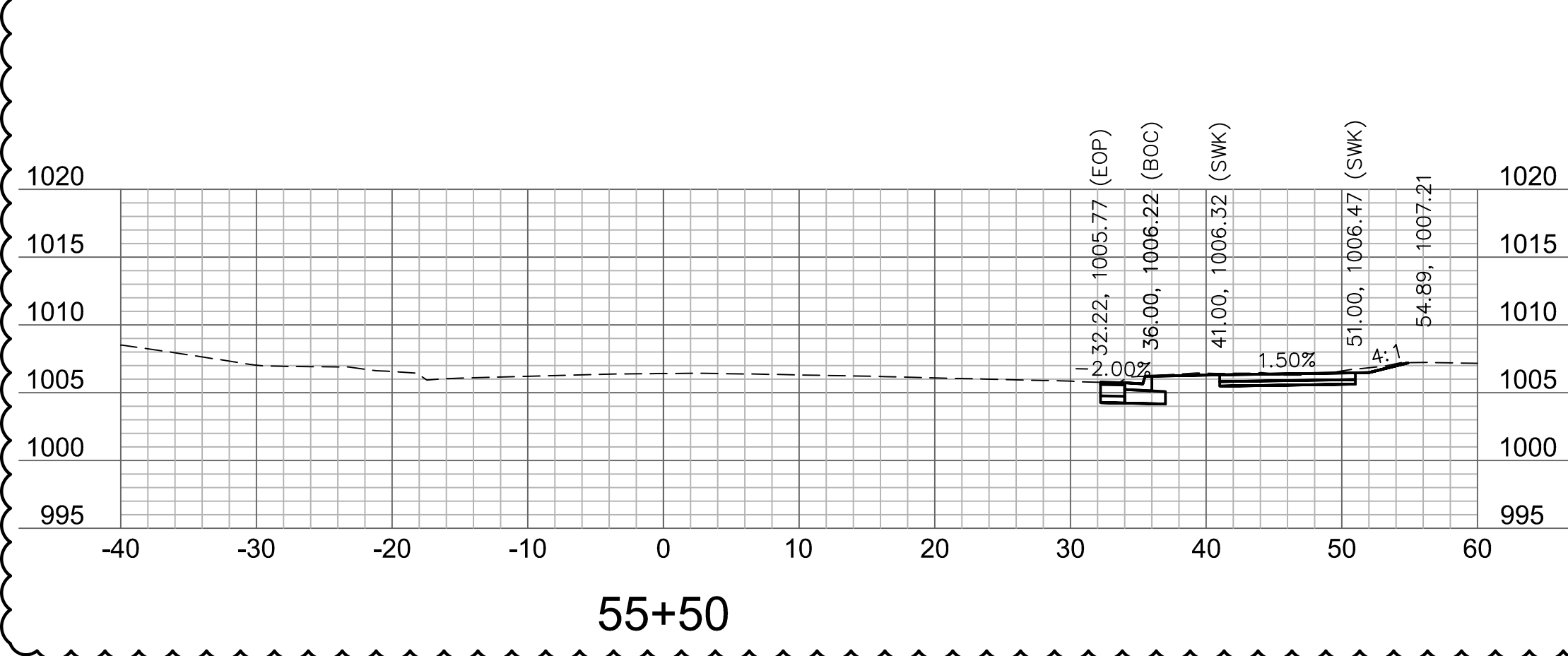
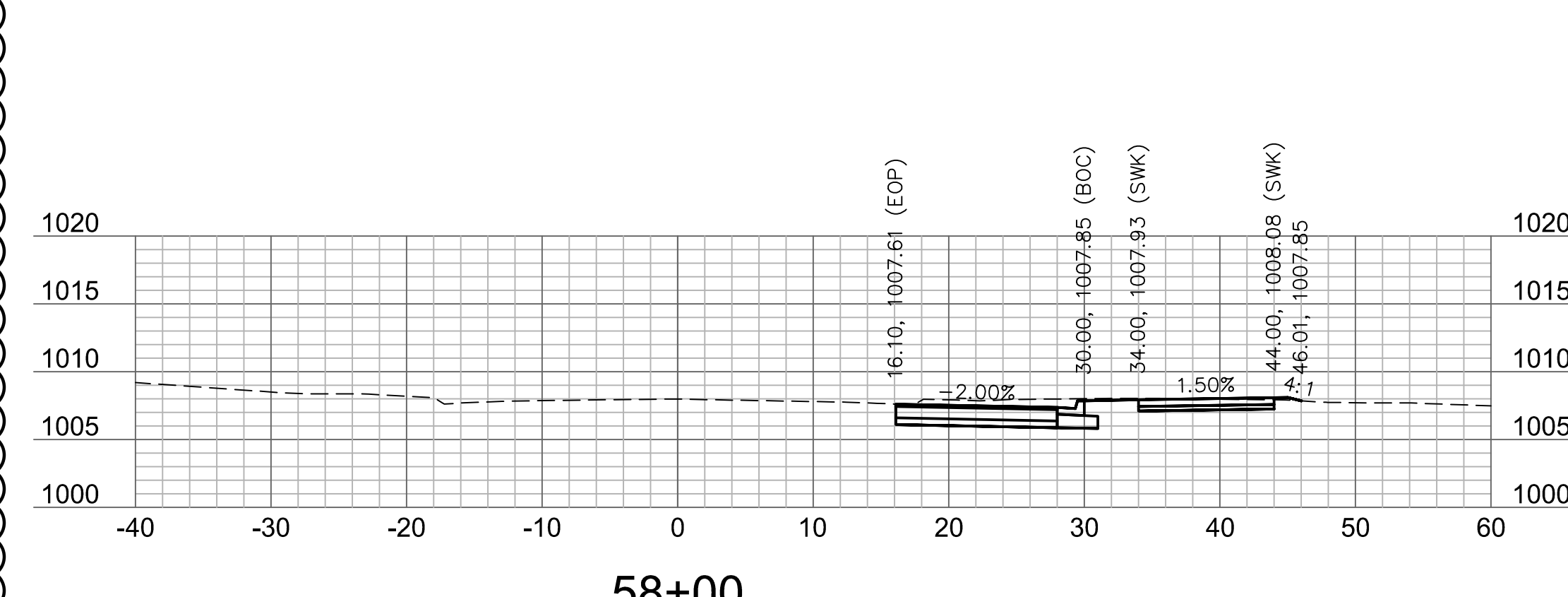
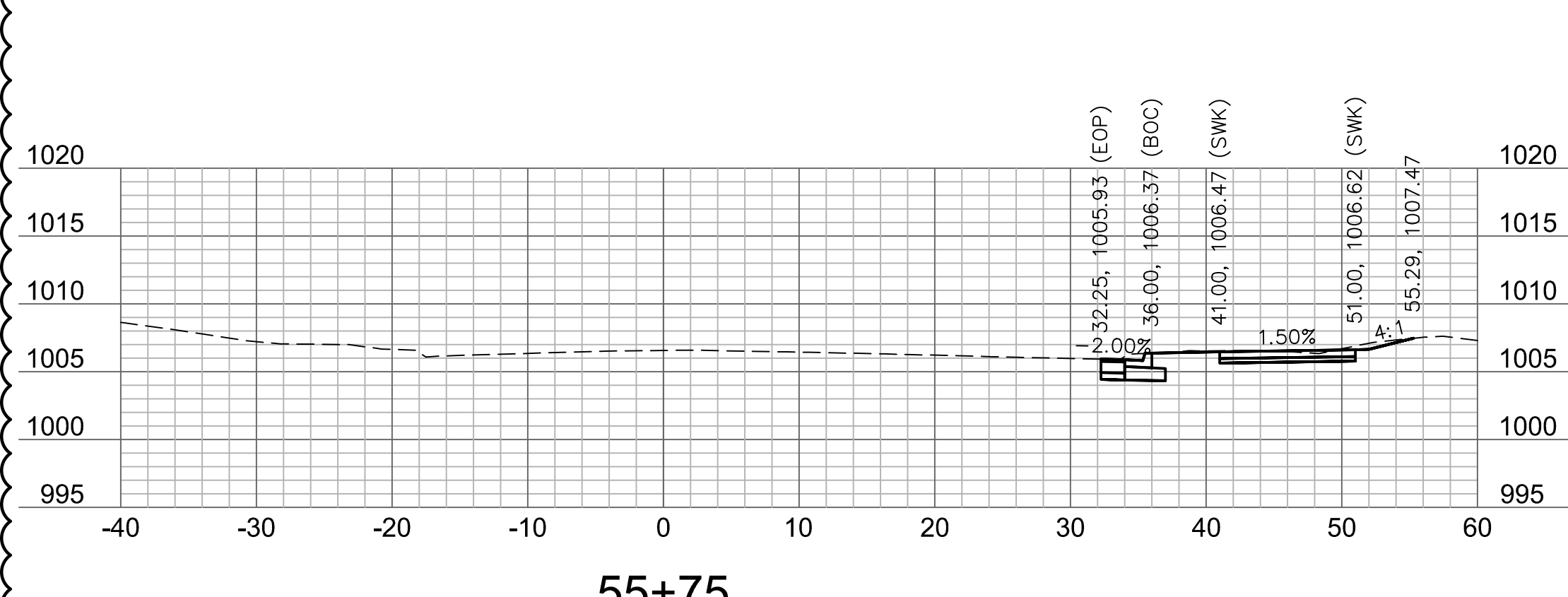
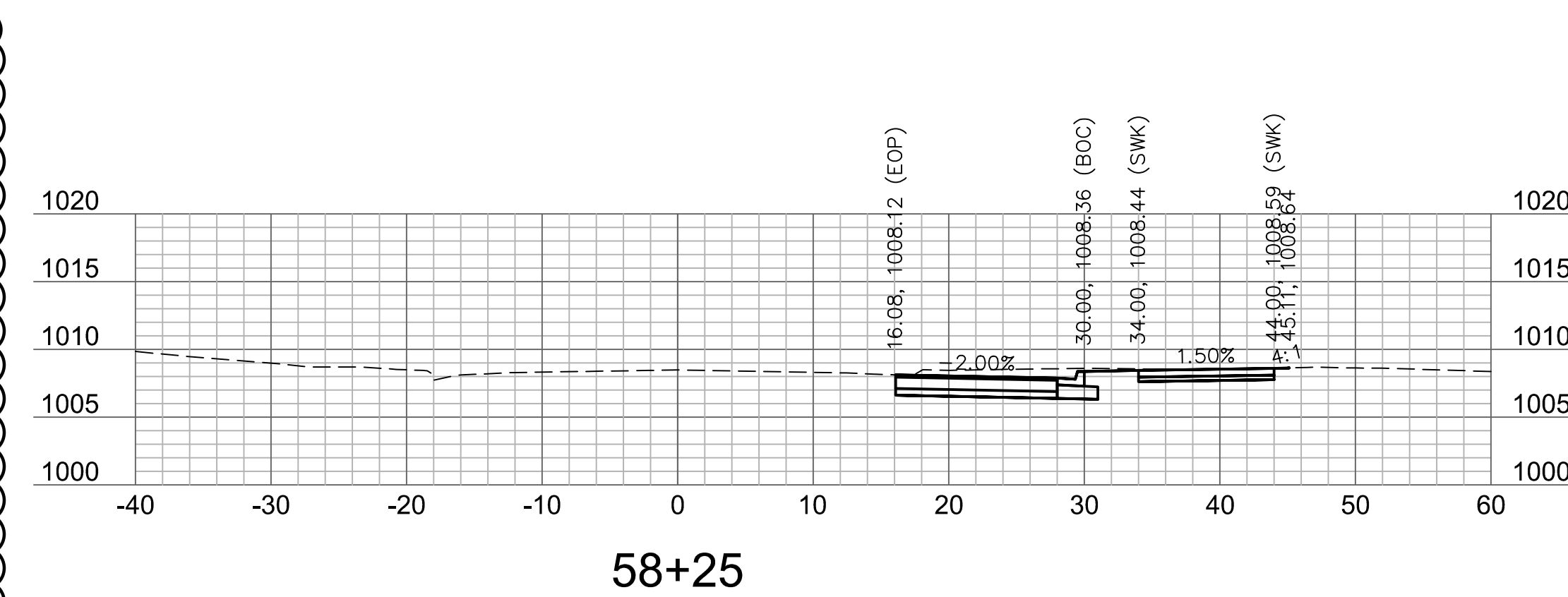
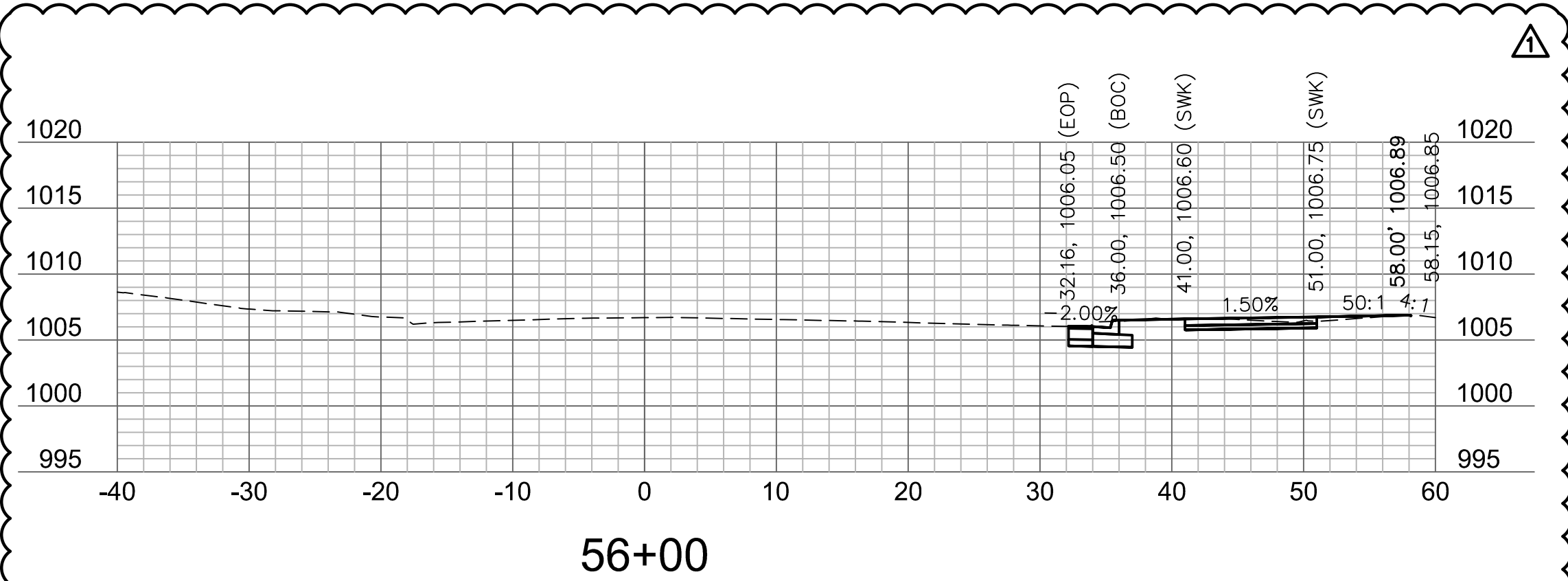
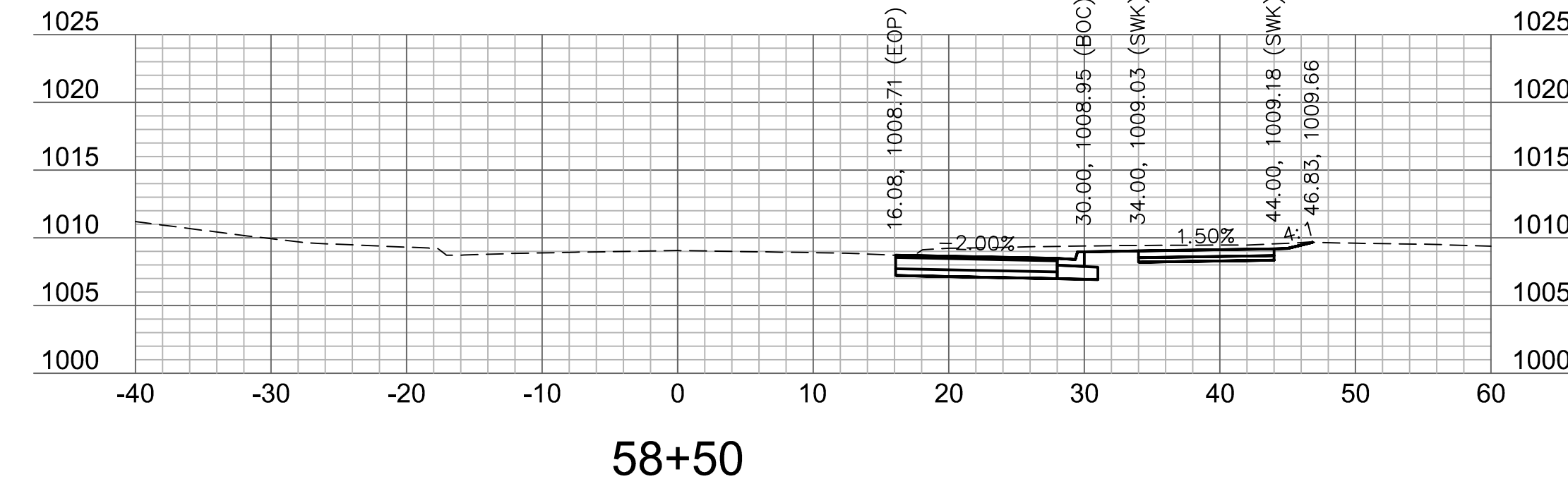
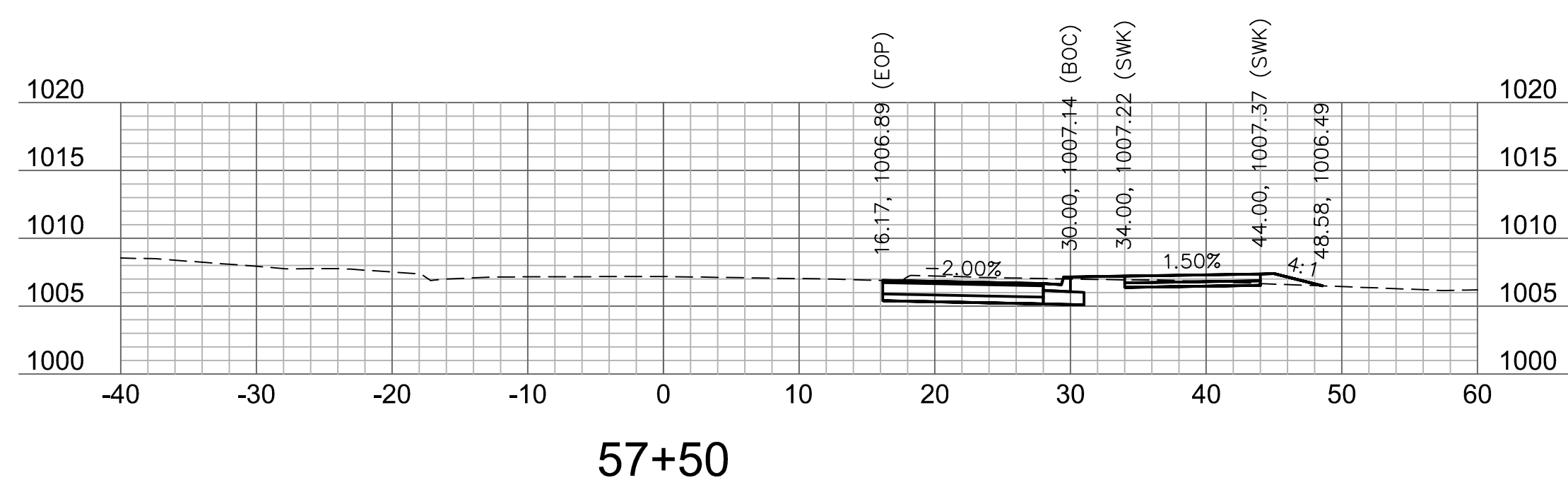
2021

olsson

Olsson Engineering - MO State Certificate of Authority #01592
 7301 West 133rd Street, Suite 200 TEL: 913.381.1170
 Overland Park, KS 66213-4750 FAX: 913.381.1174 www.olsson.com

RECORD DRAWINGS

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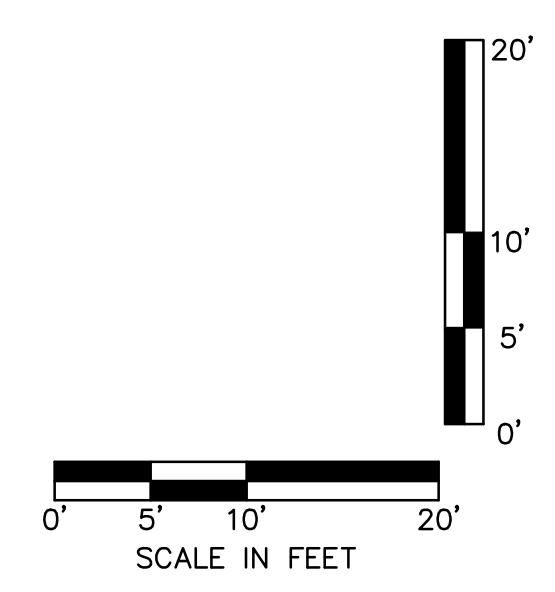
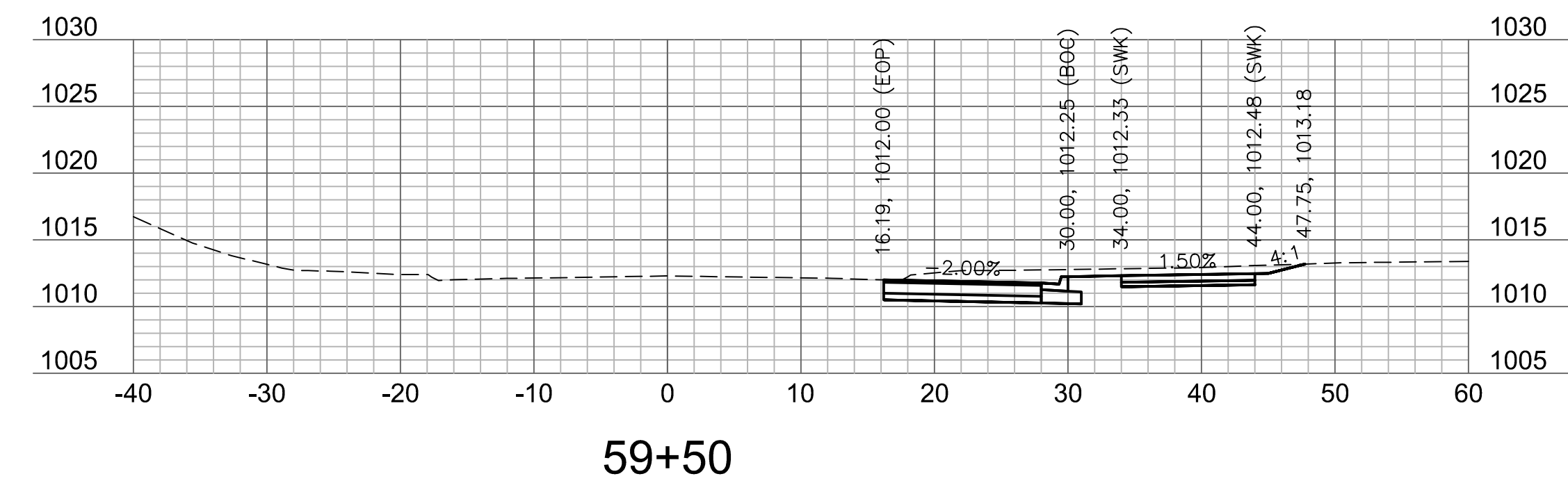
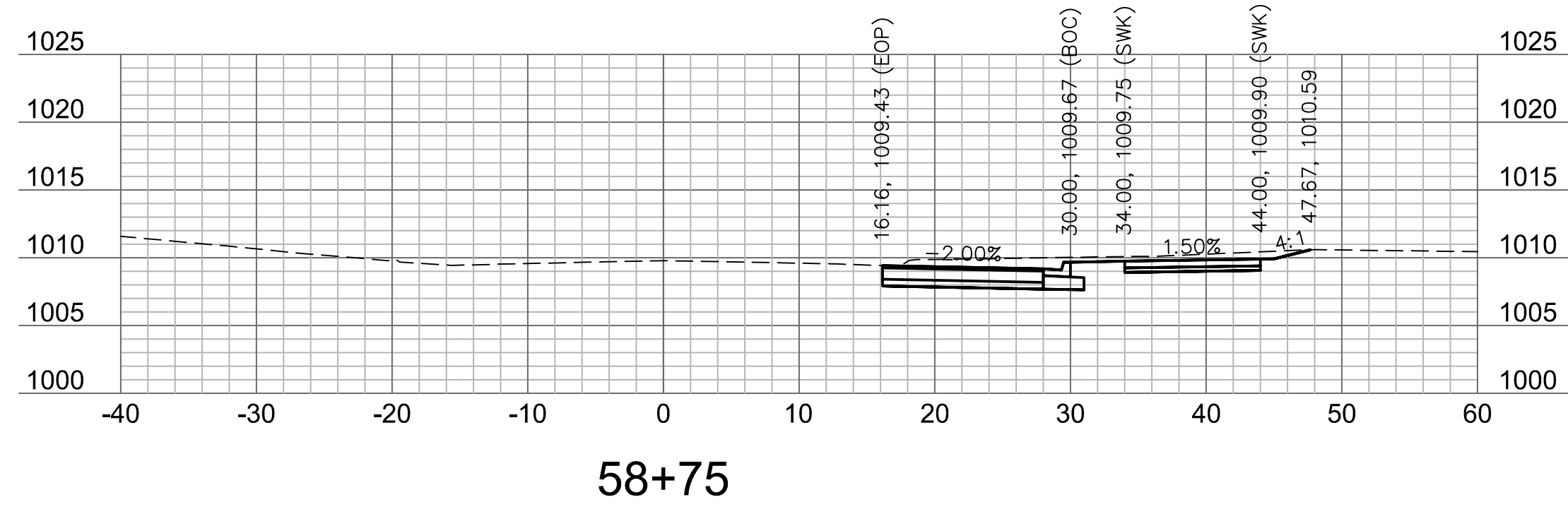
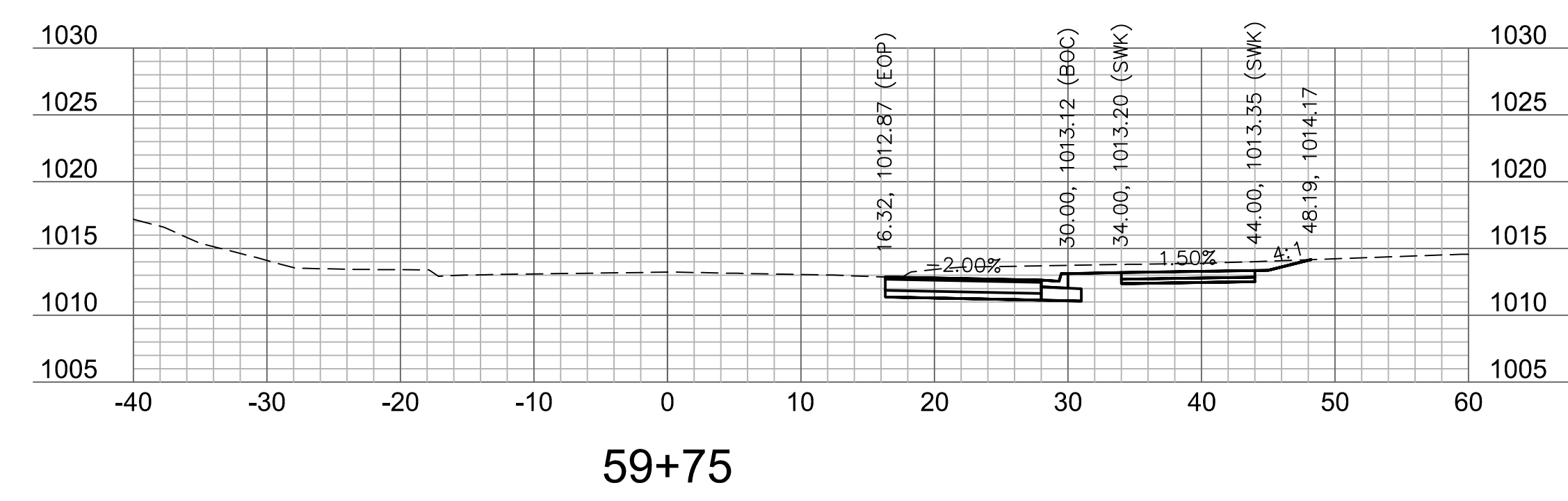
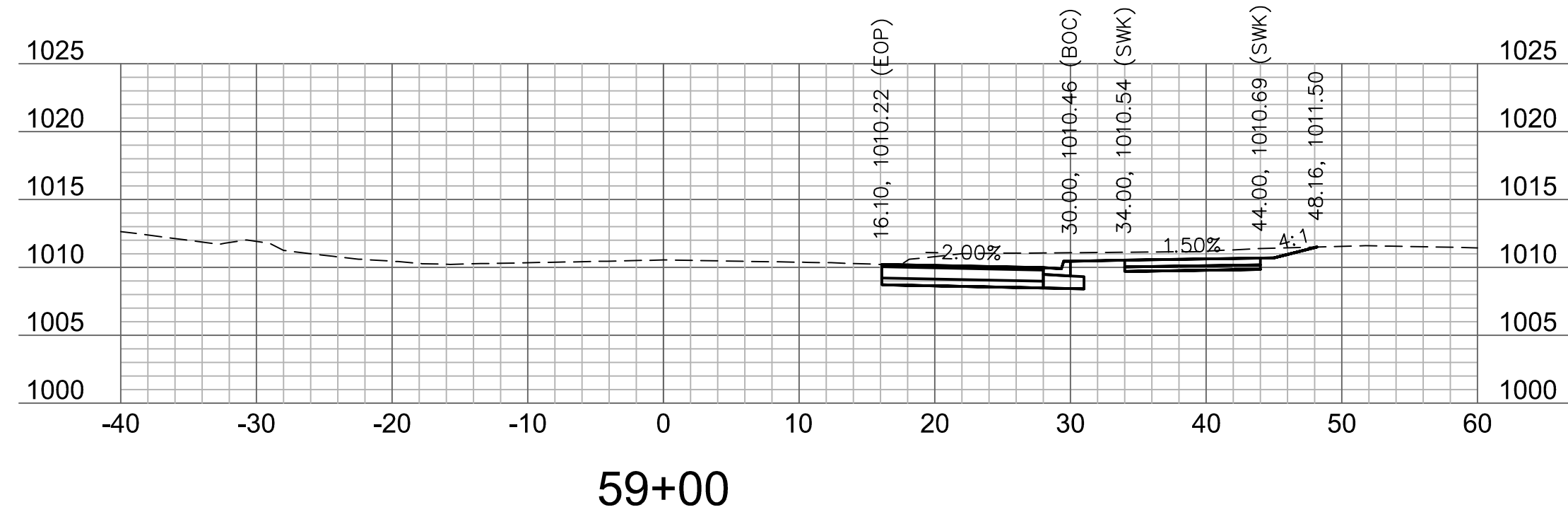
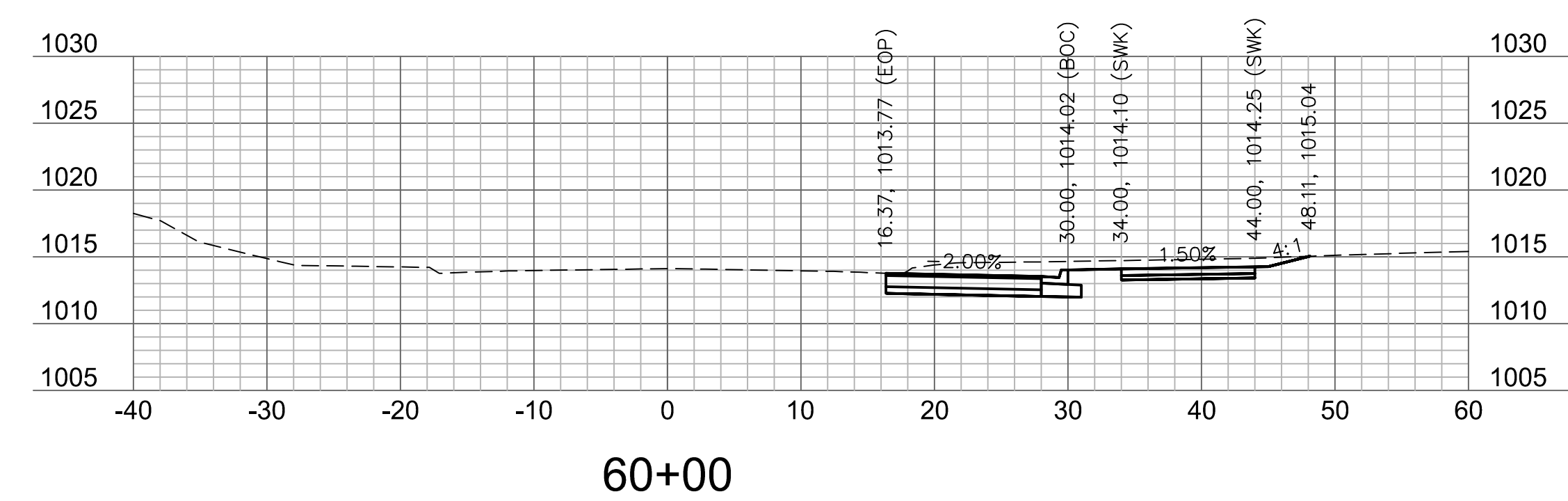
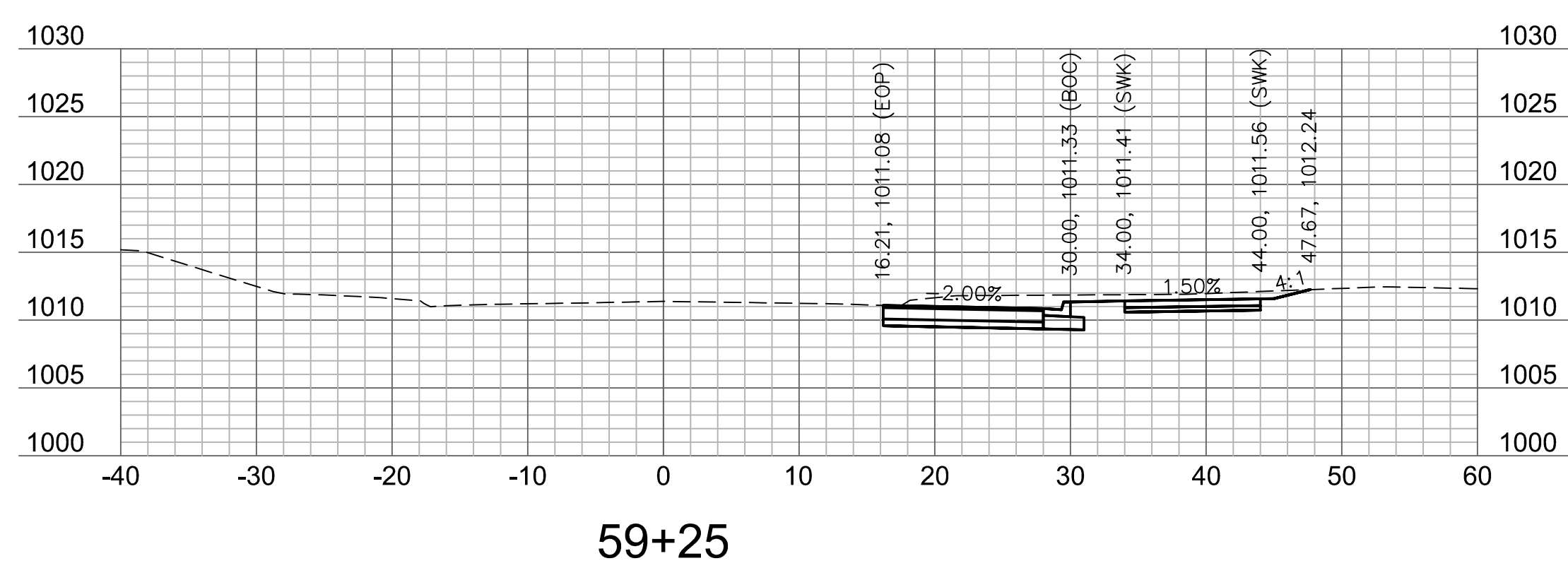
olsson
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 LEE'S SUMMIT MIDDLE SCHOOL #4
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 LEE'S SUMMIT, MISSOURI

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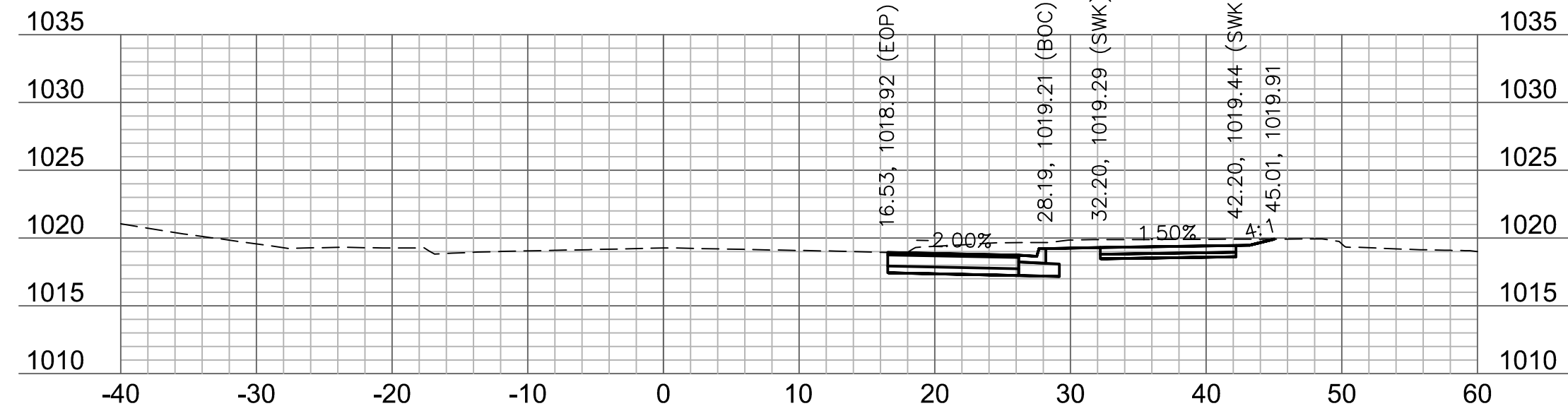


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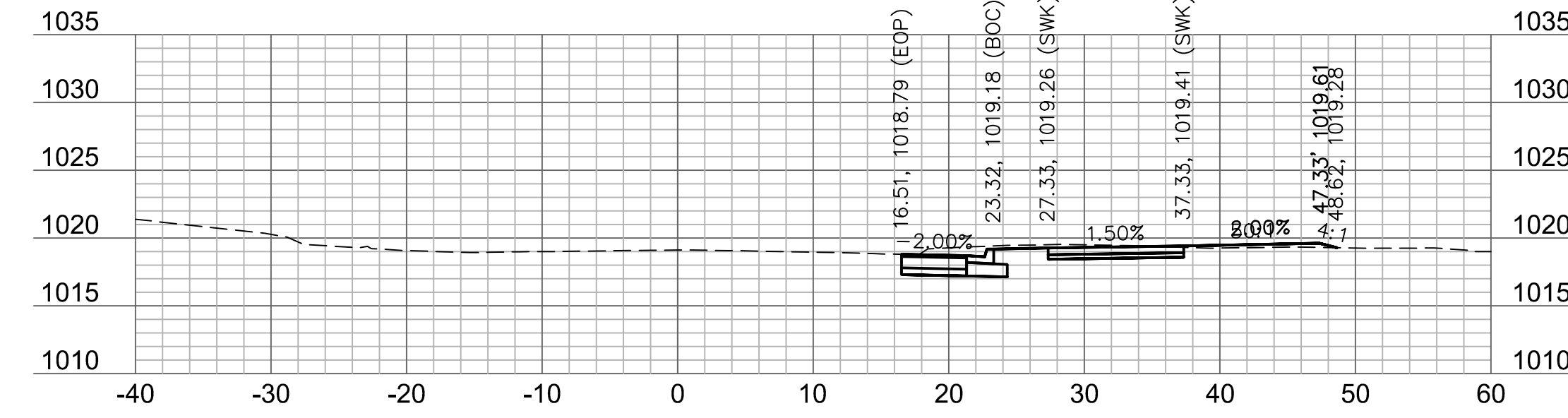
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 DRAWN BY: MLW
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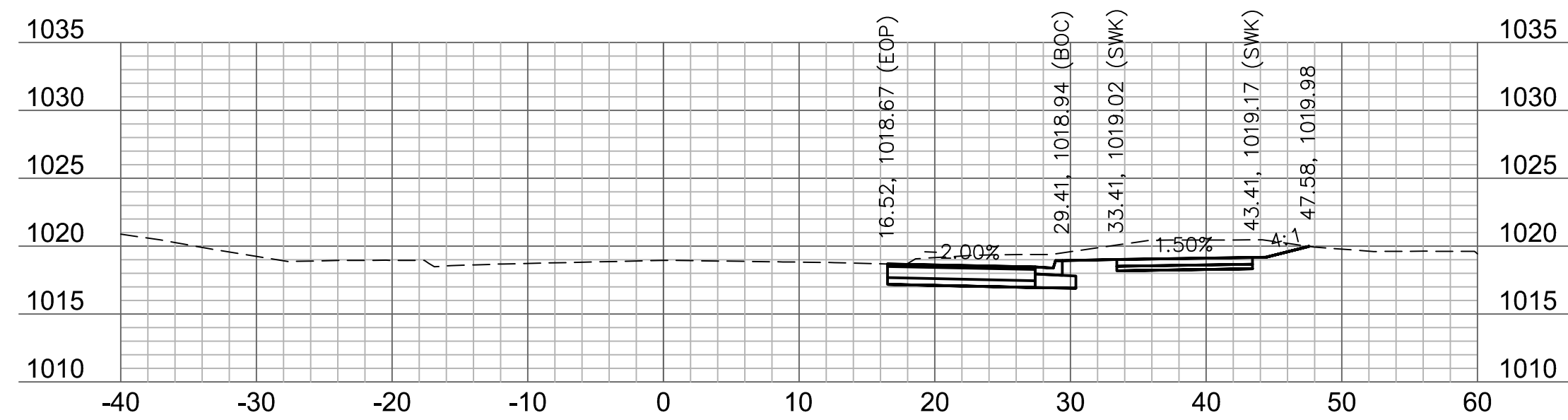
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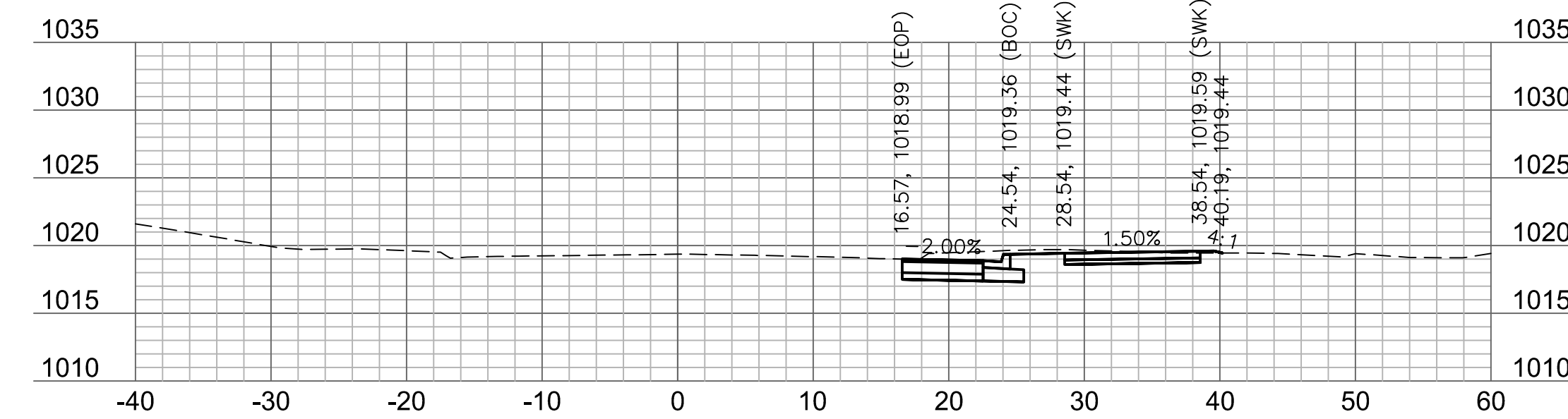
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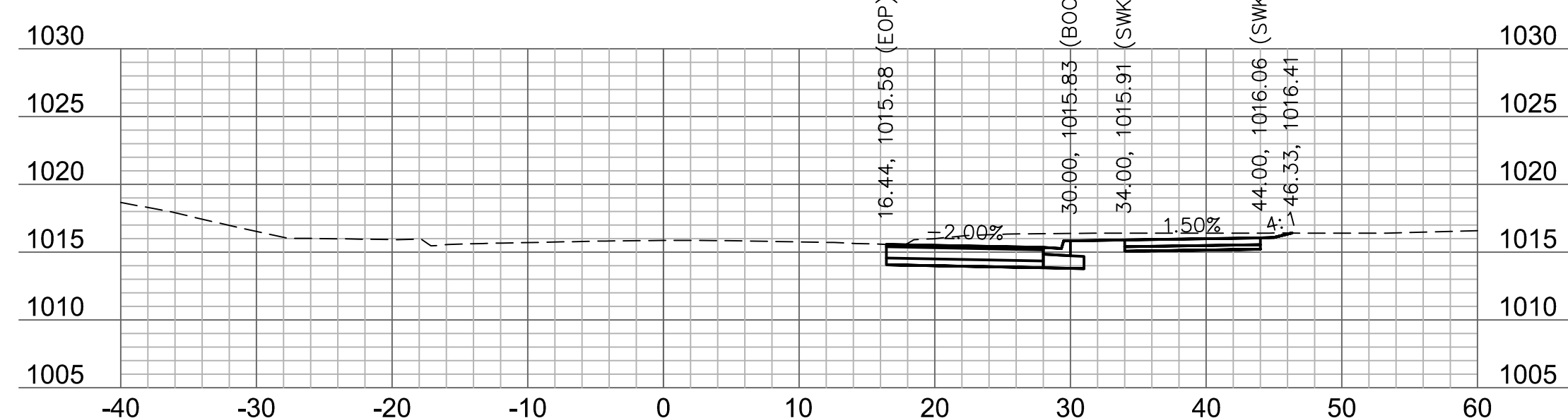
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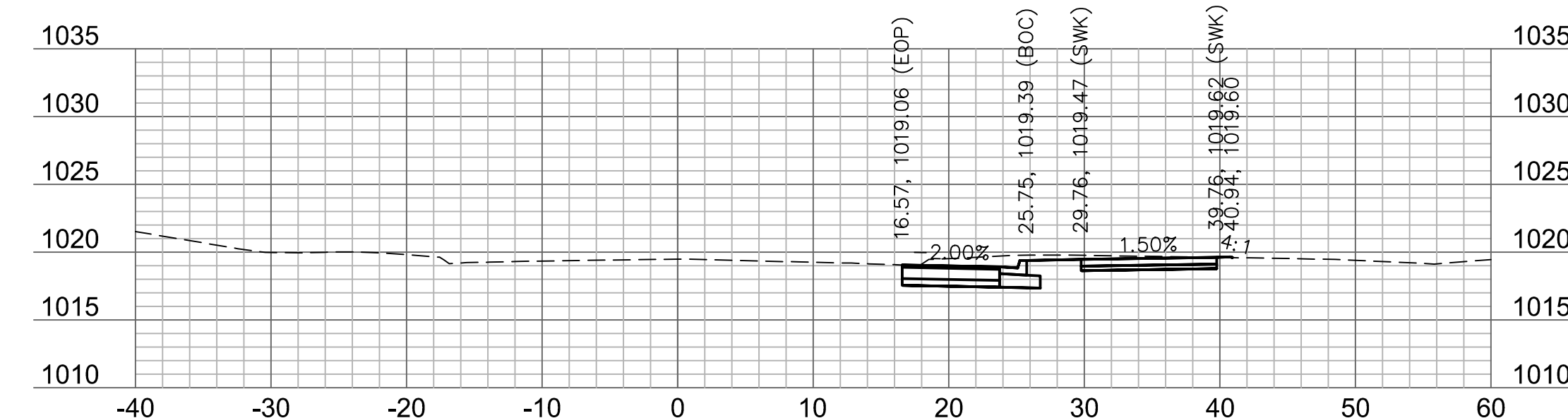
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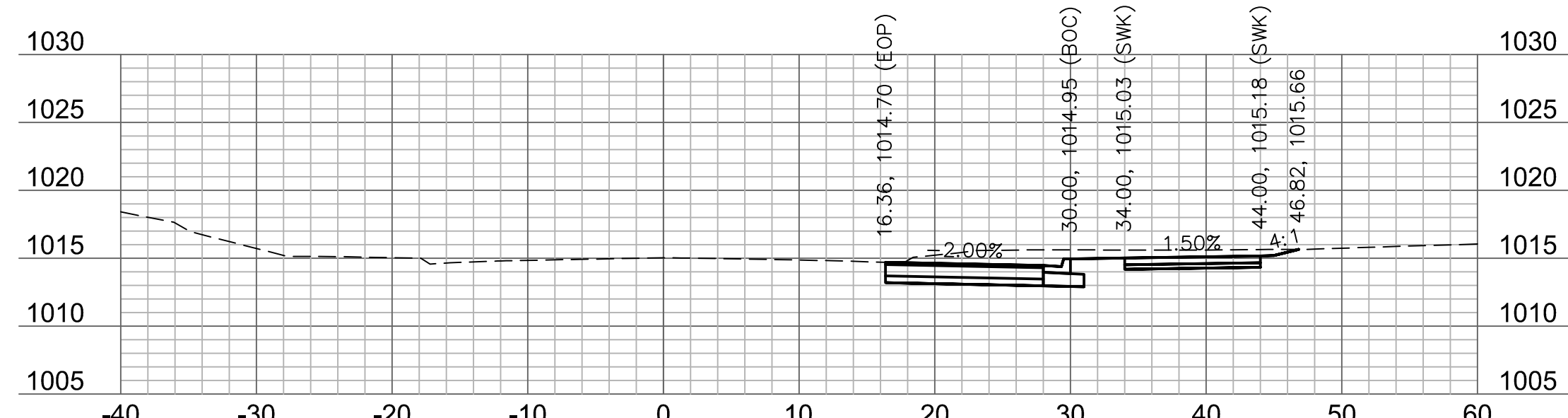
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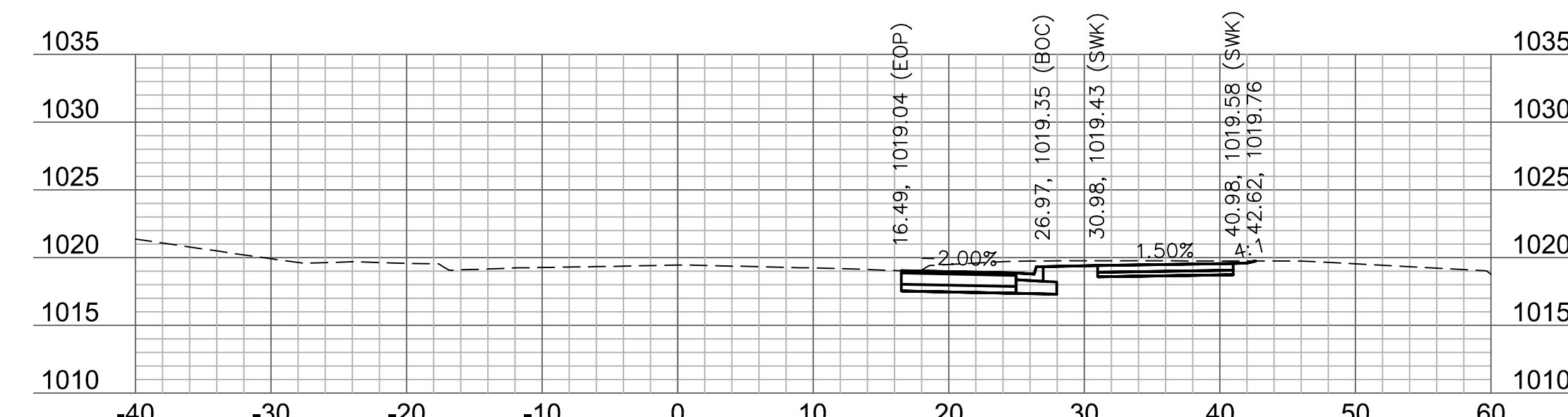
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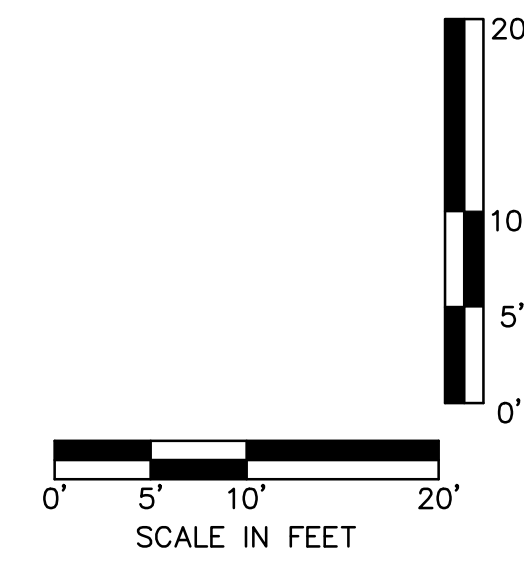
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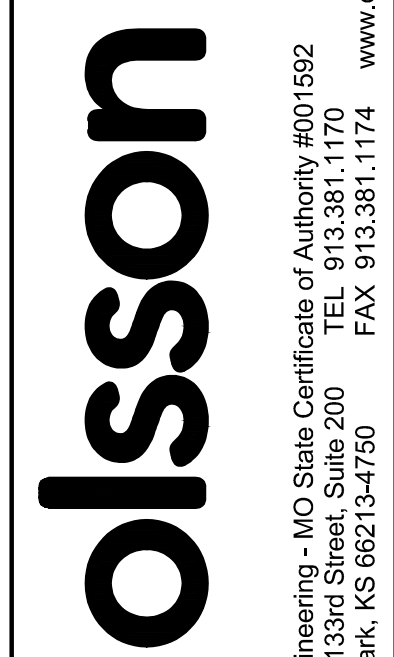
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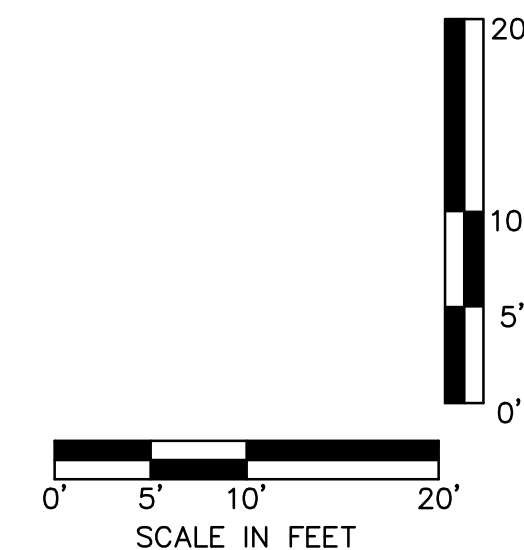
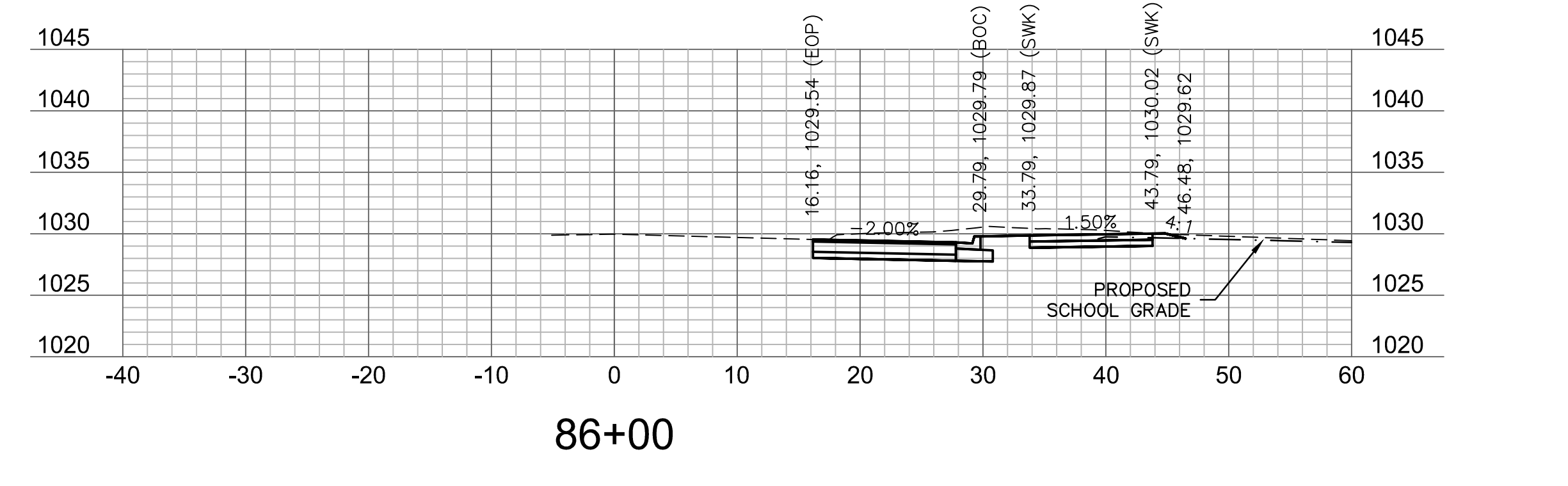
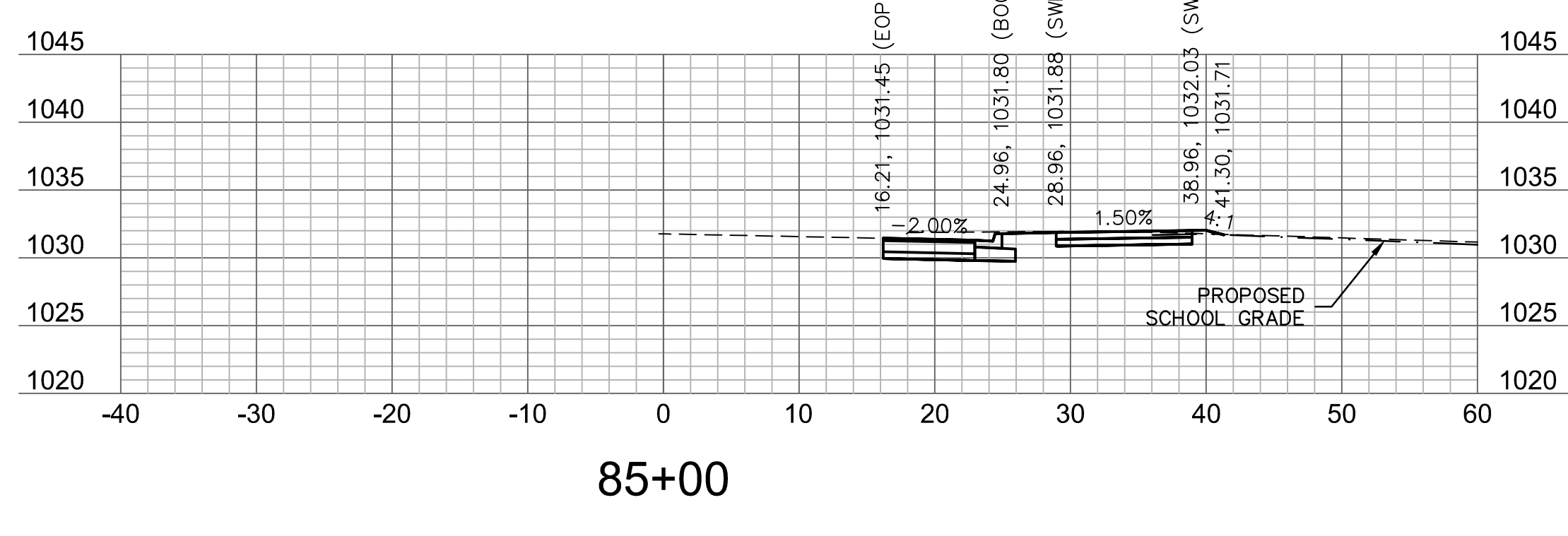
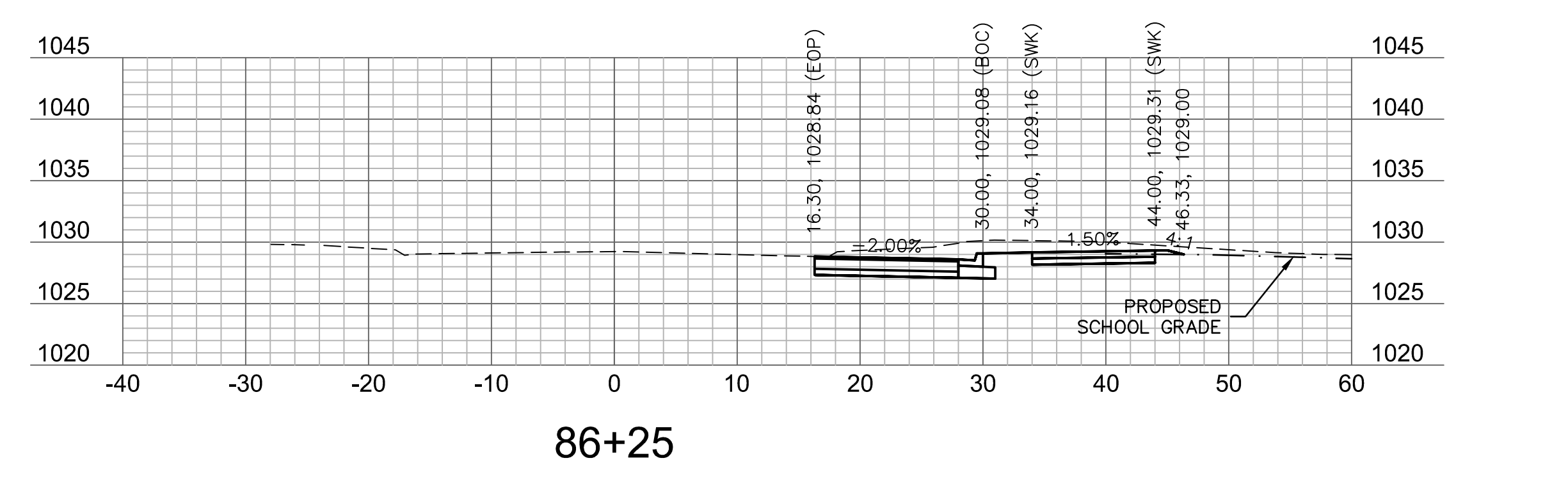
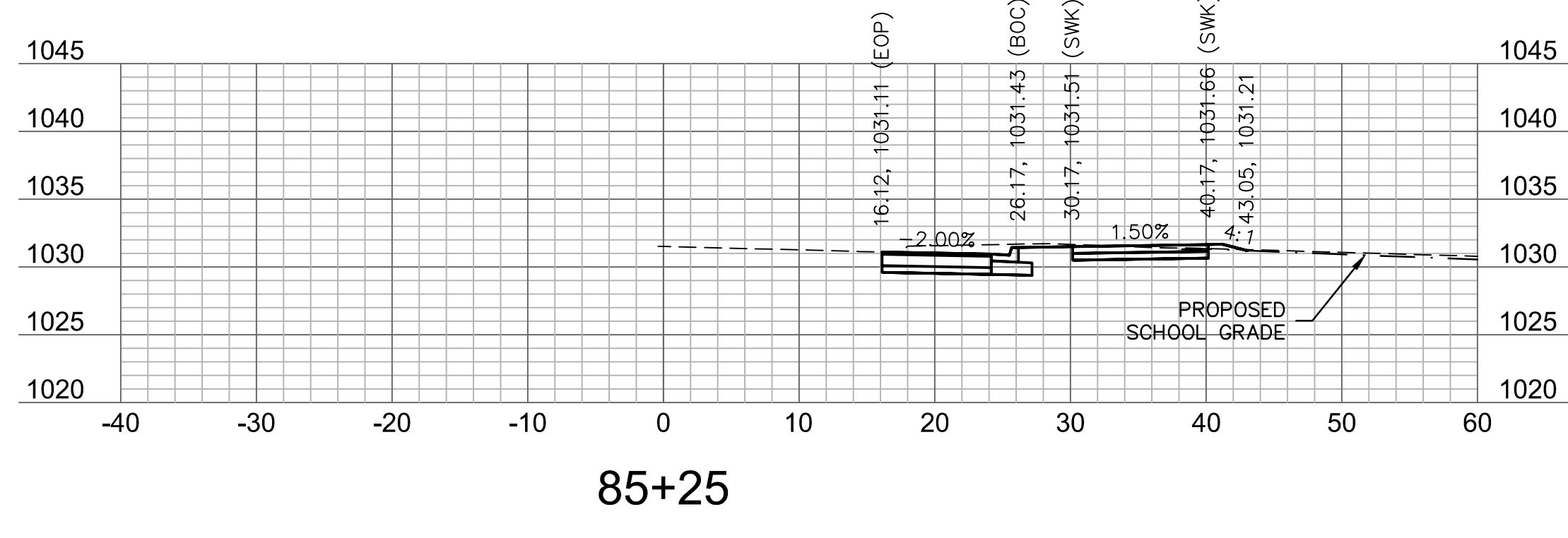
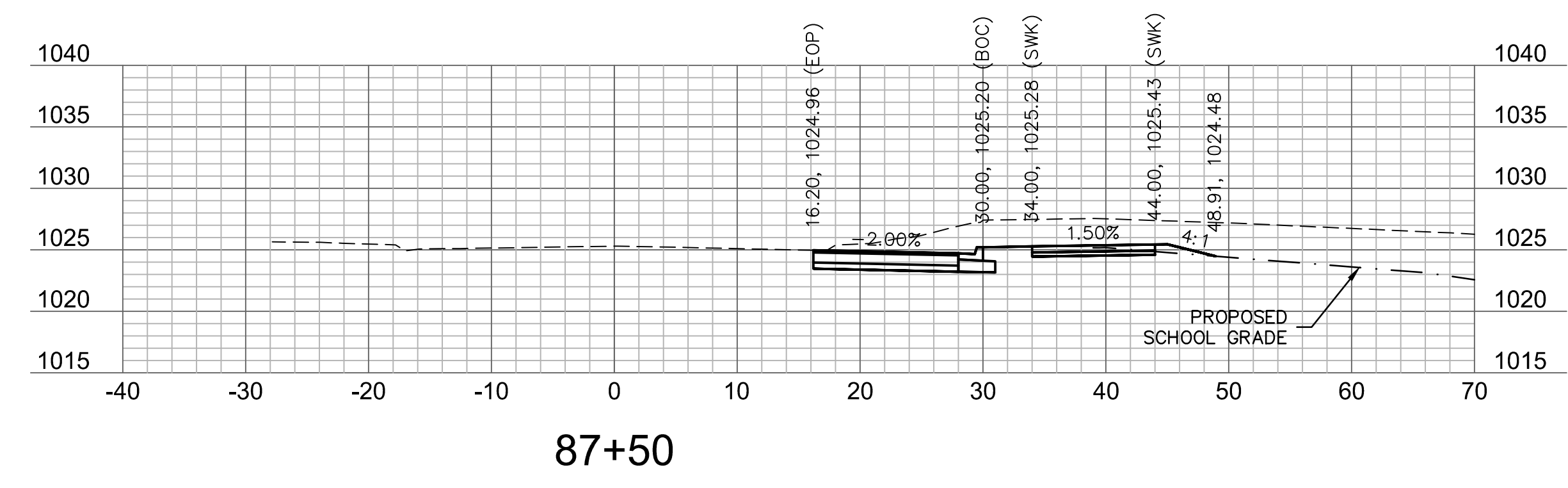
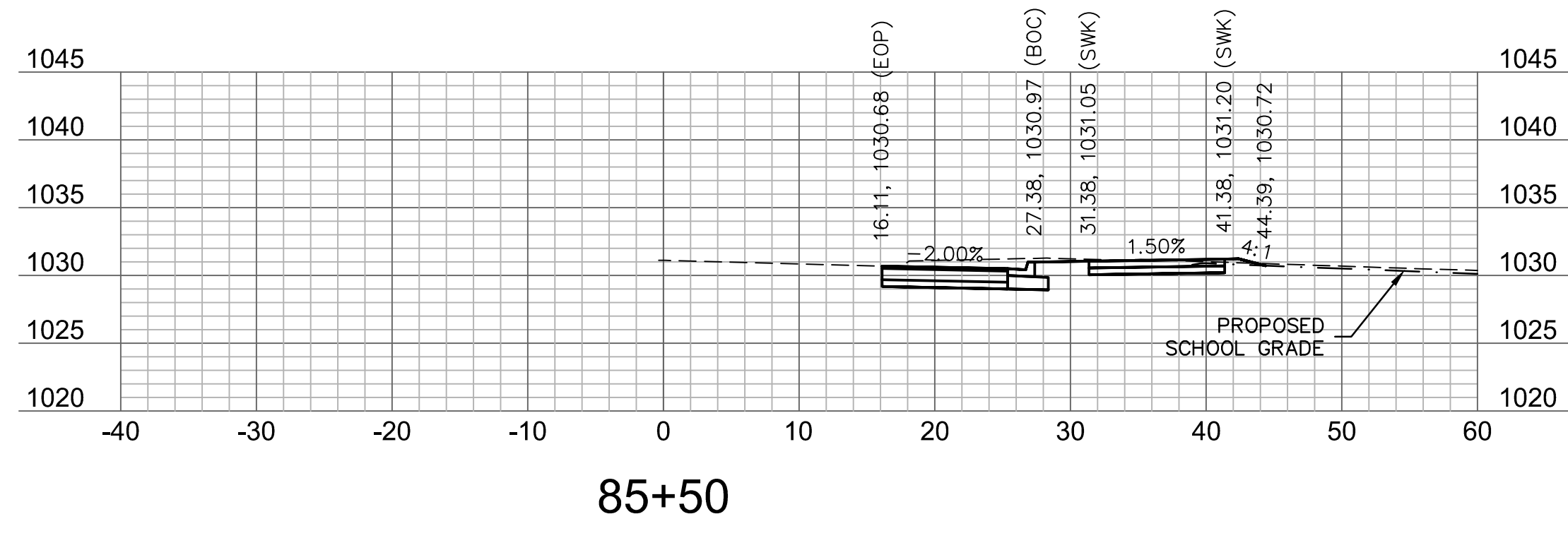
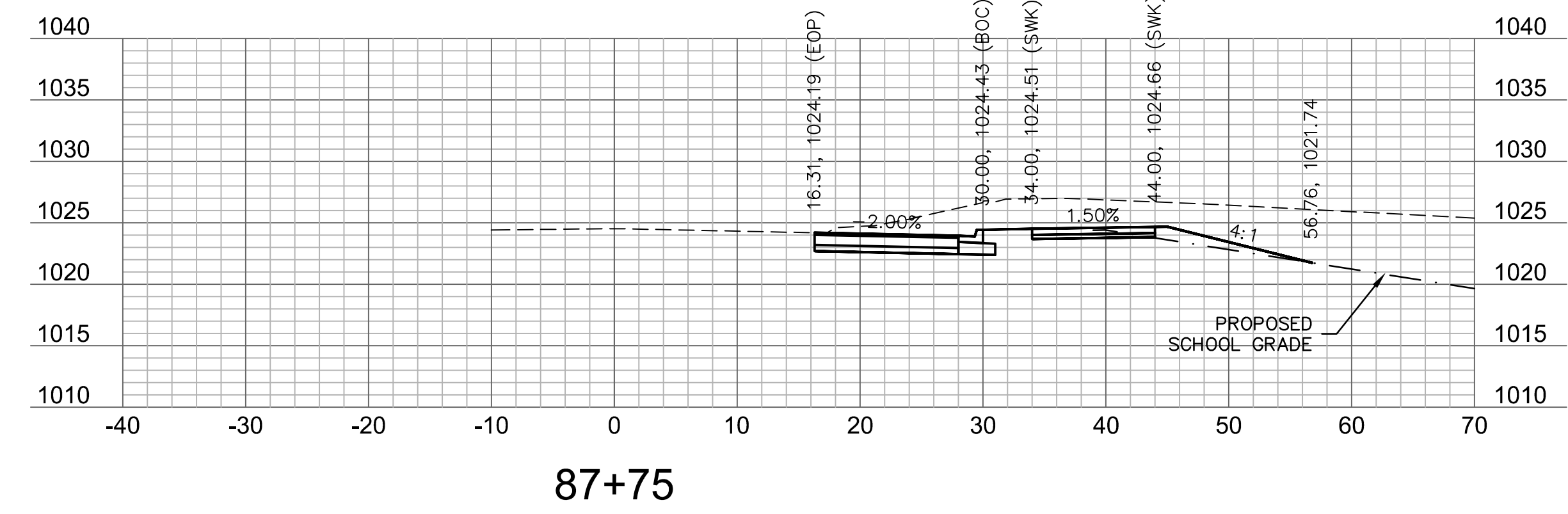
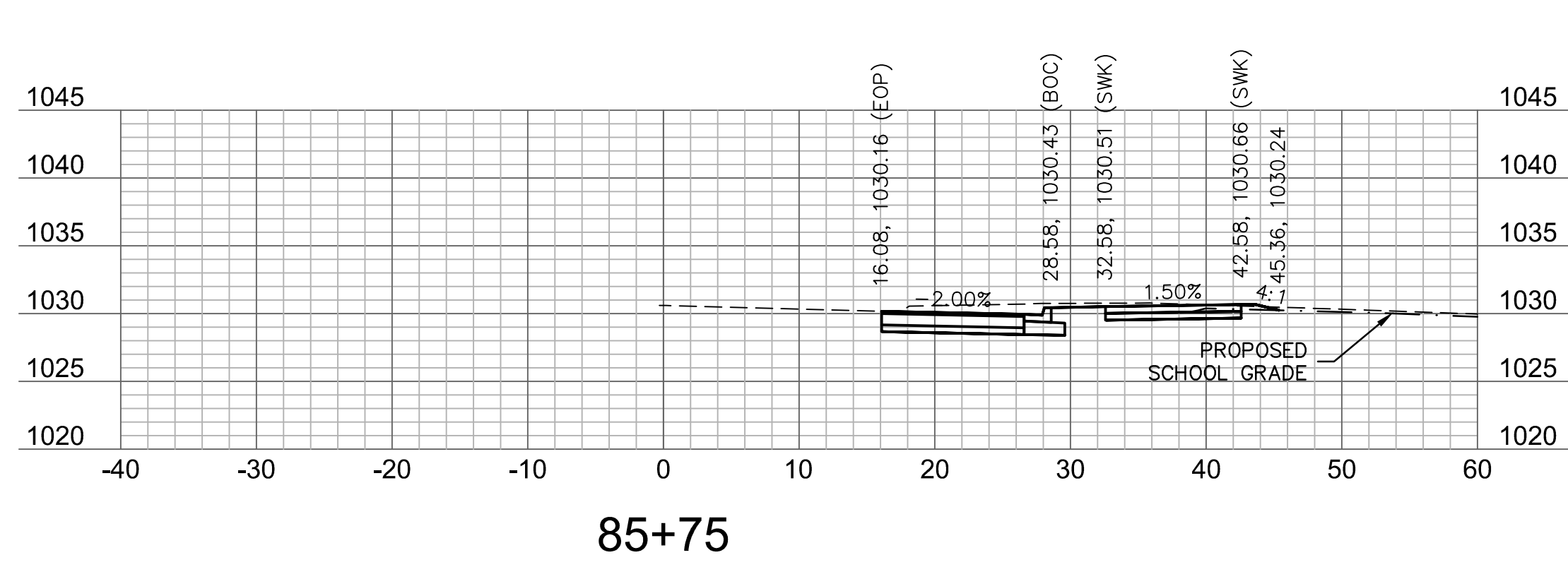
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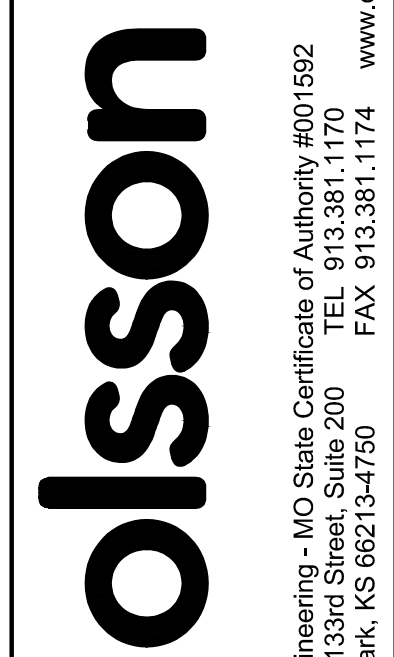


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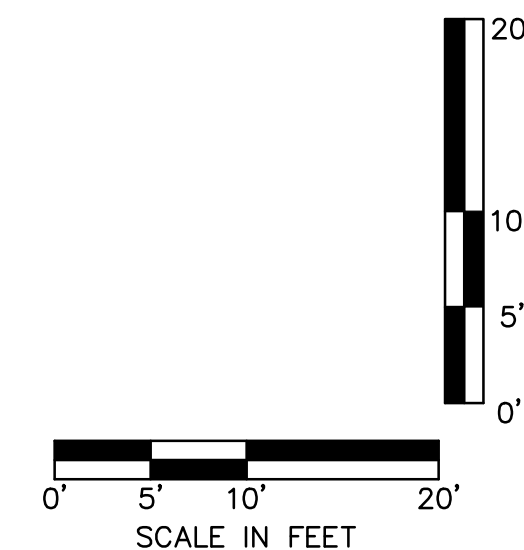
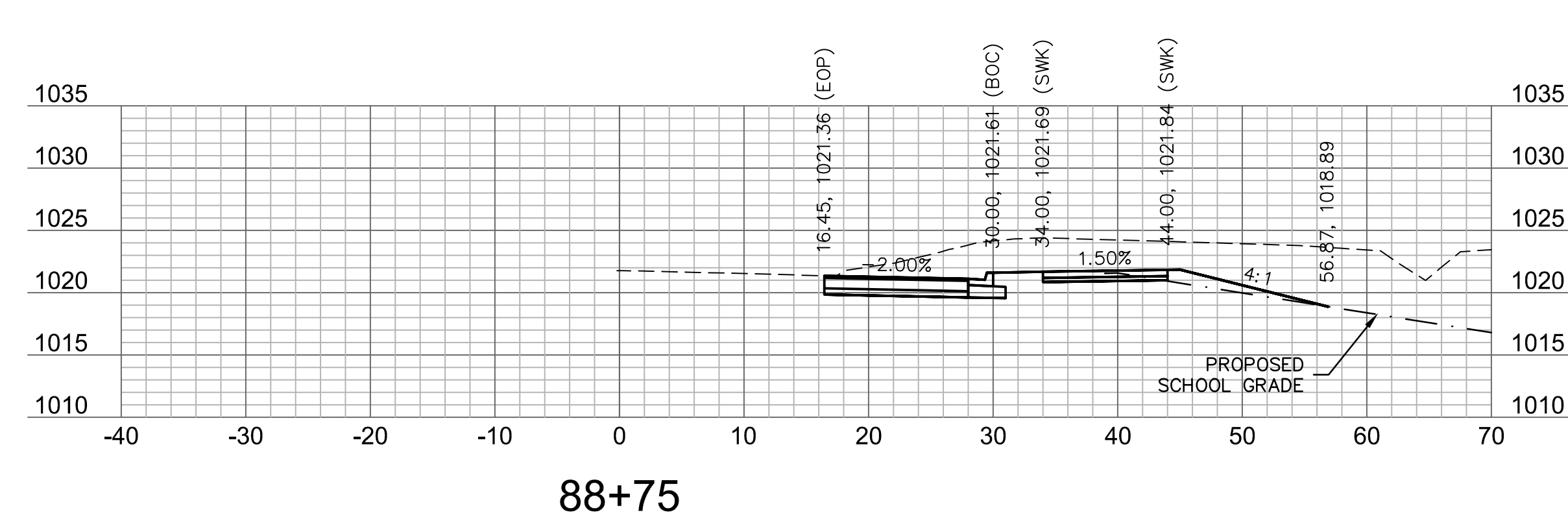
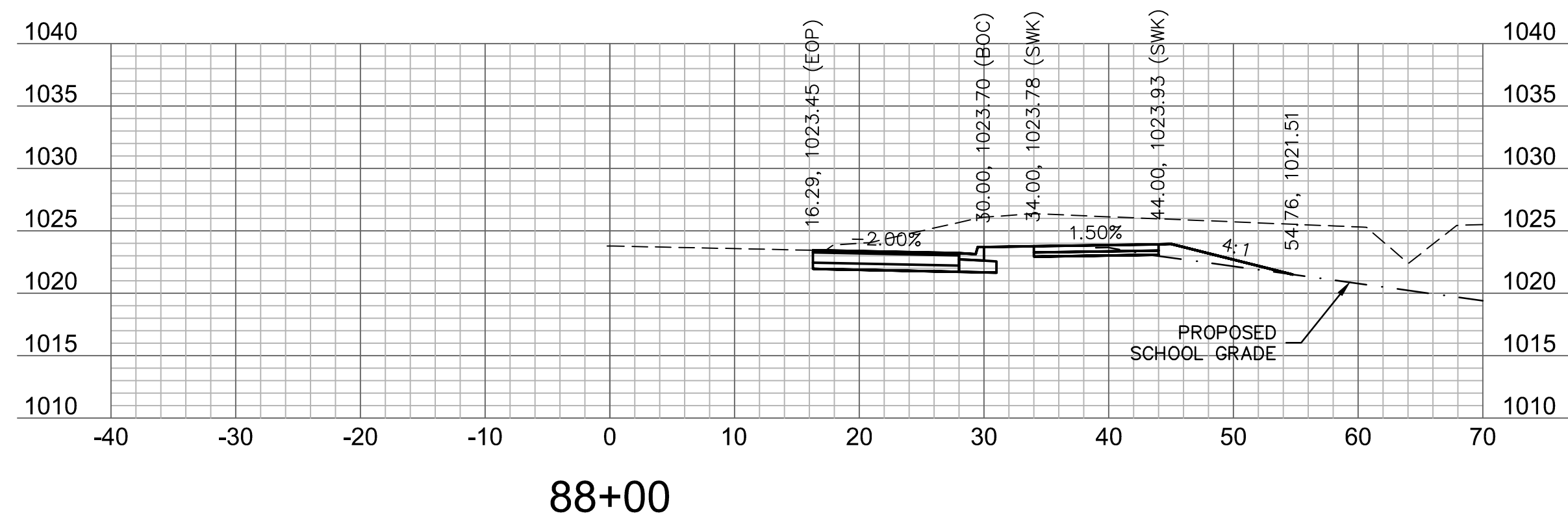
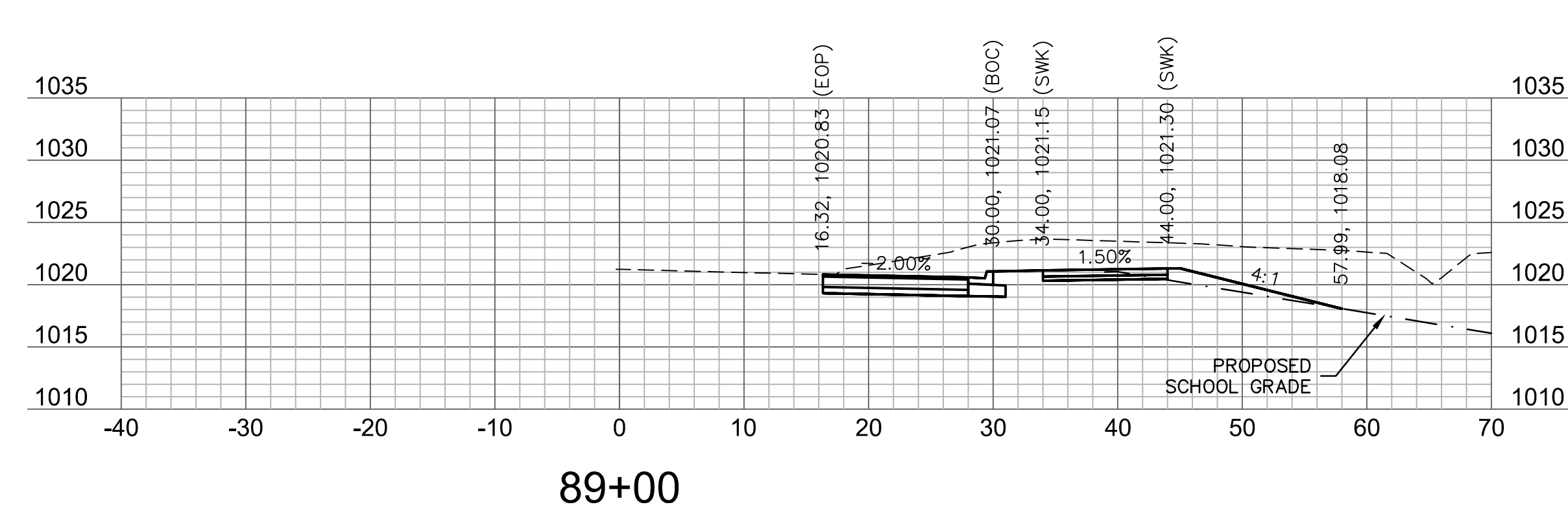
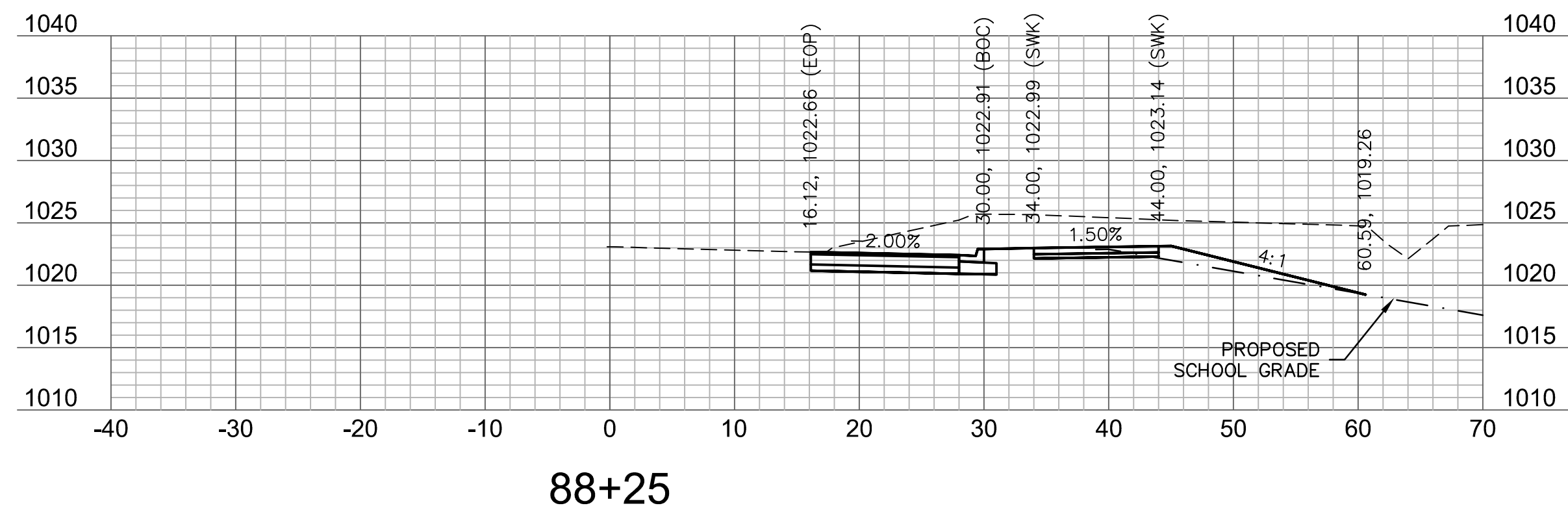
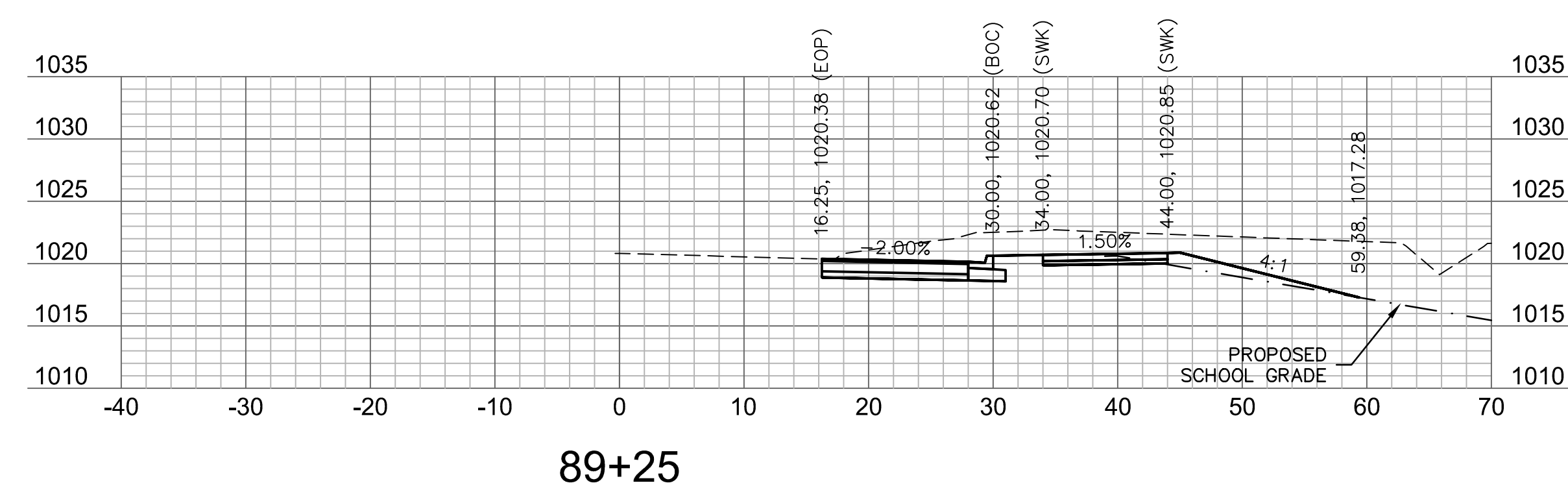
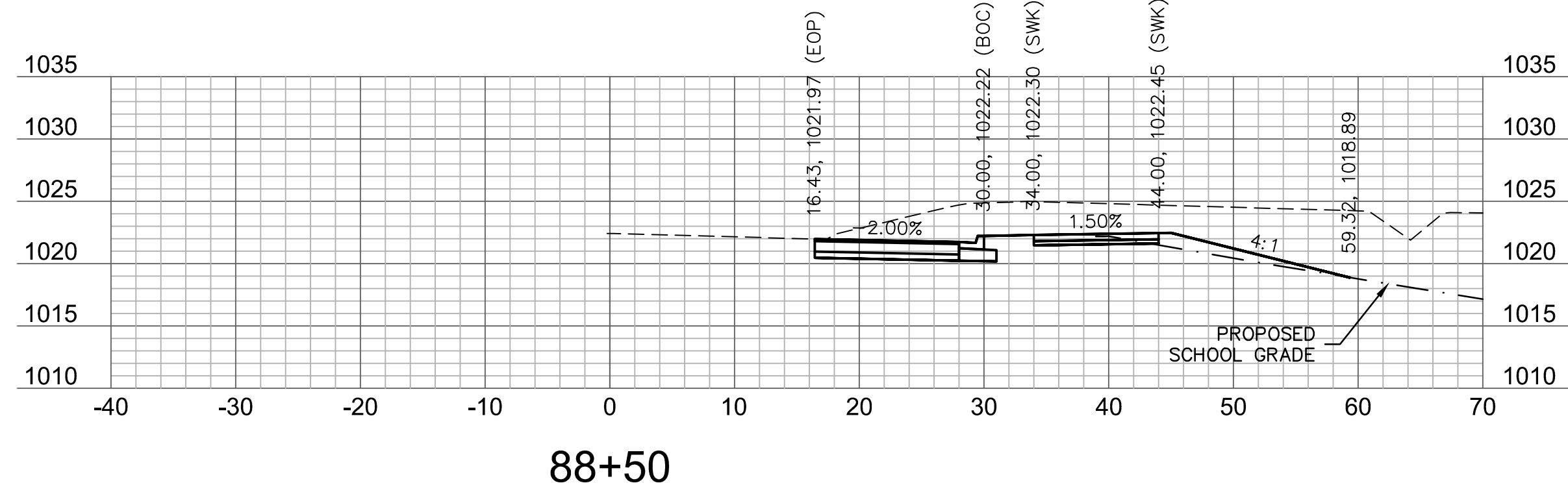
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 PROJECT NO.: 020-0103
 DWG NO.: T_XSC01_0200103
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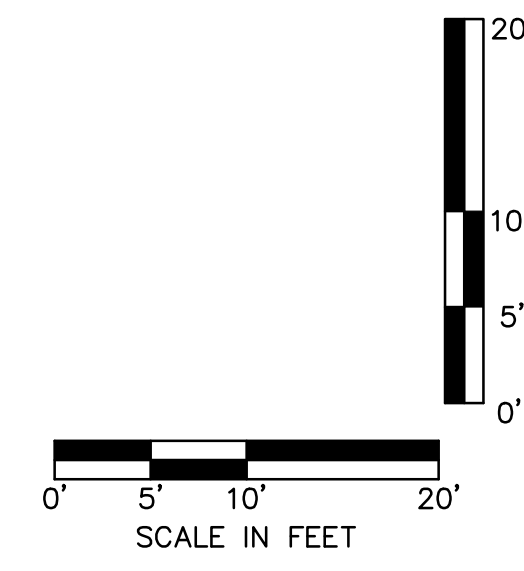
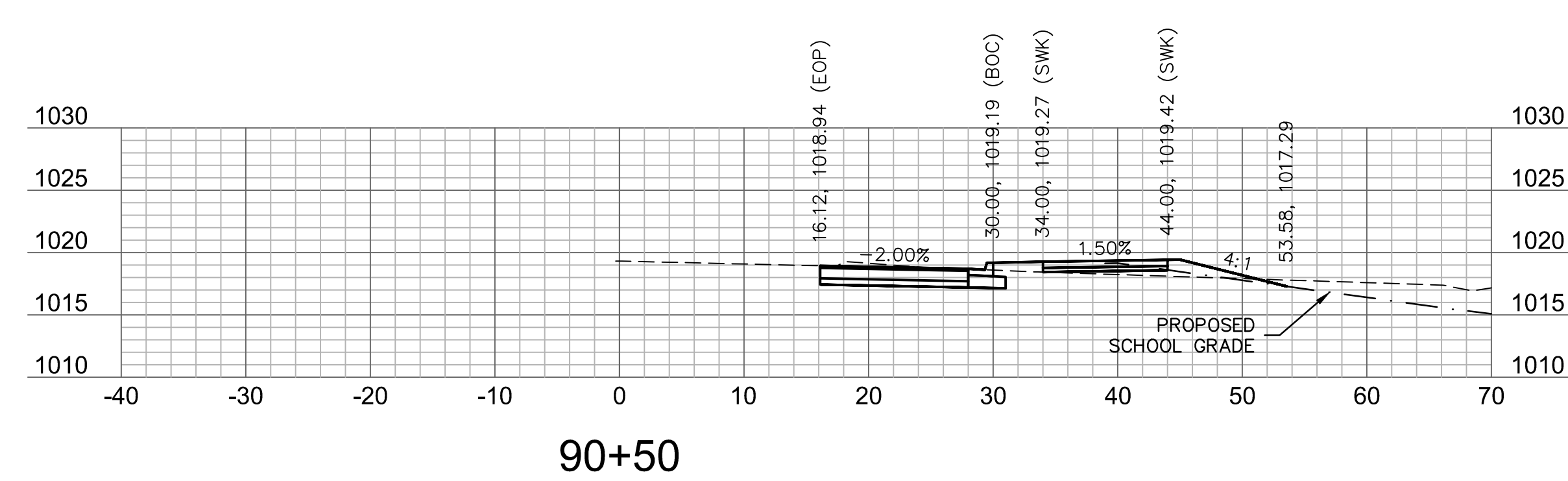
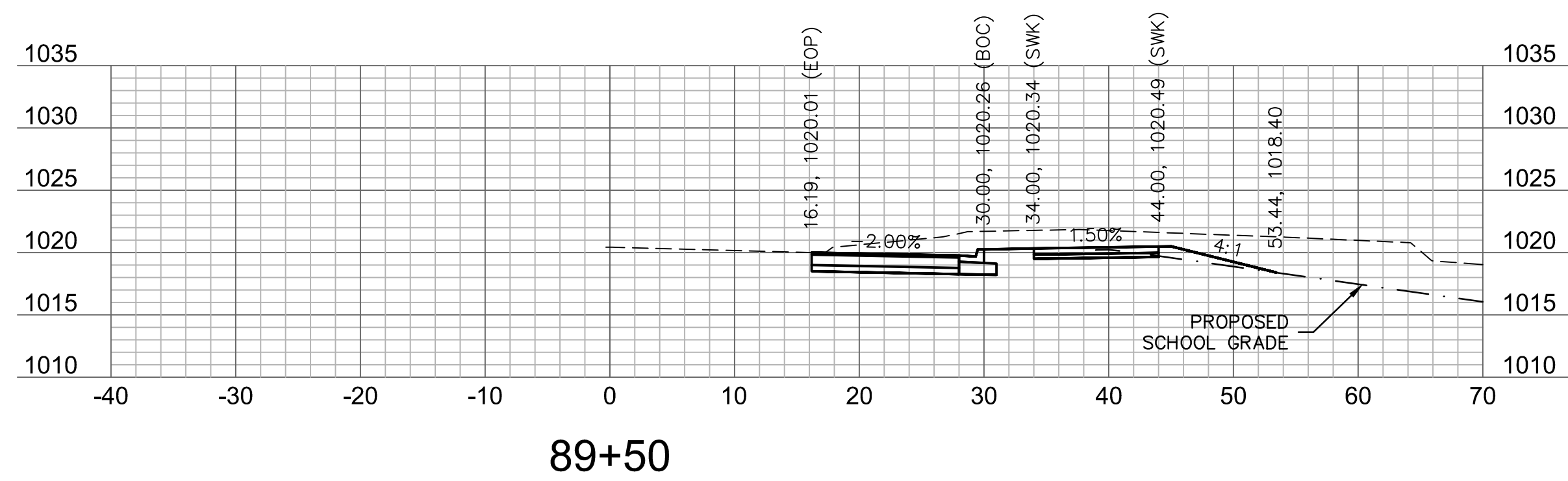
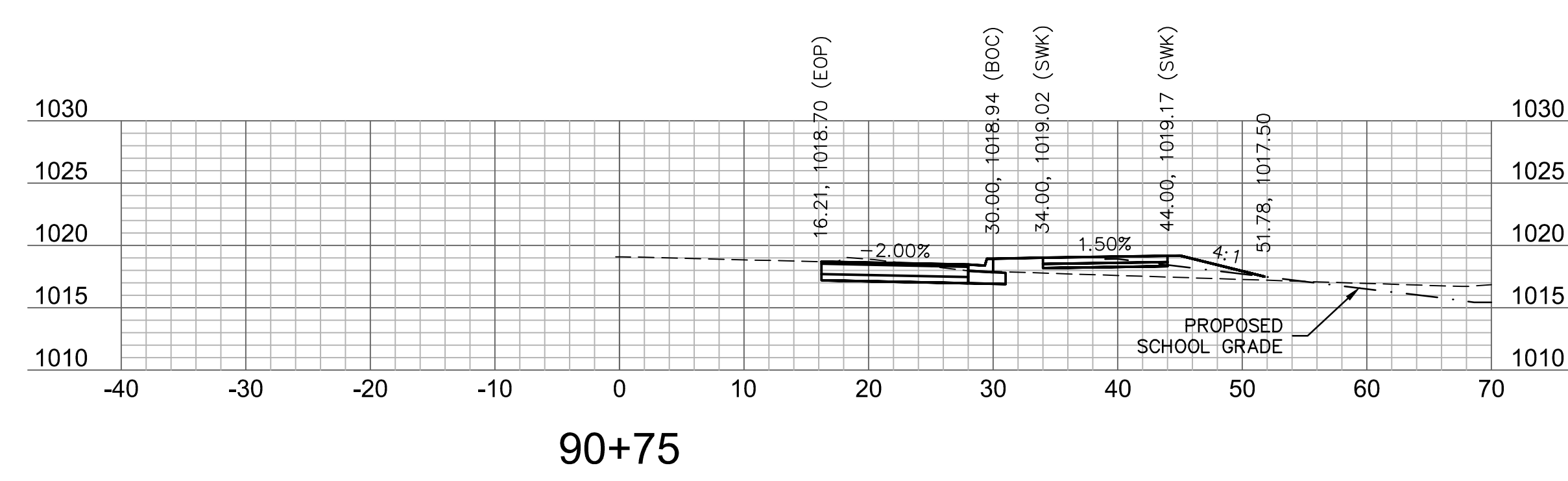
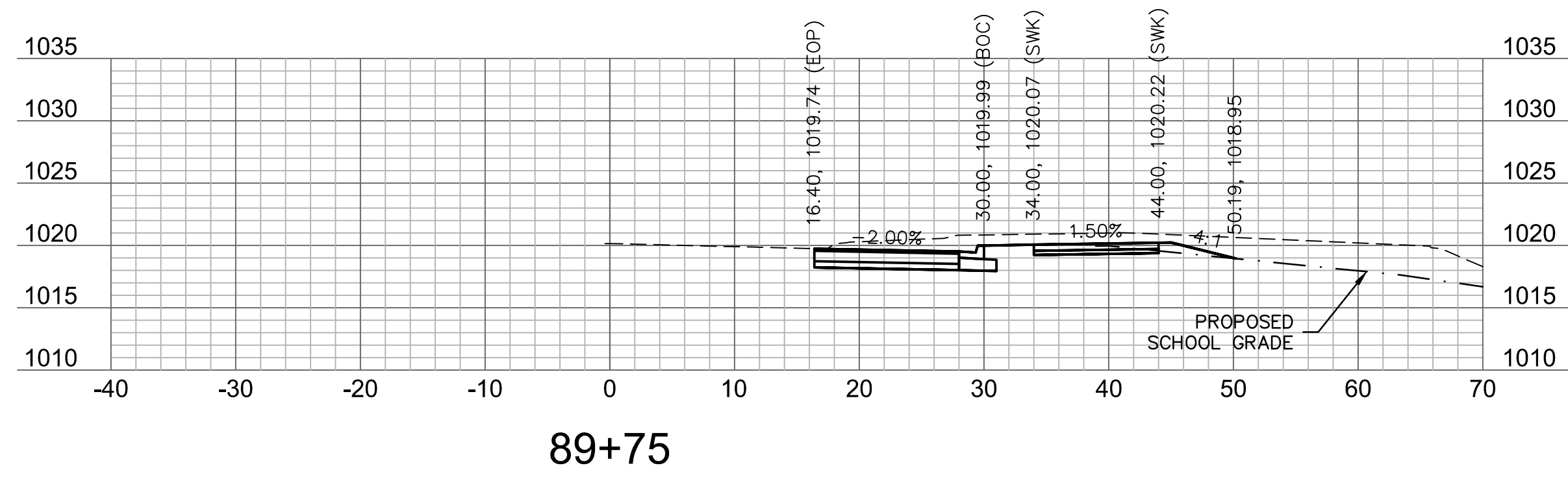
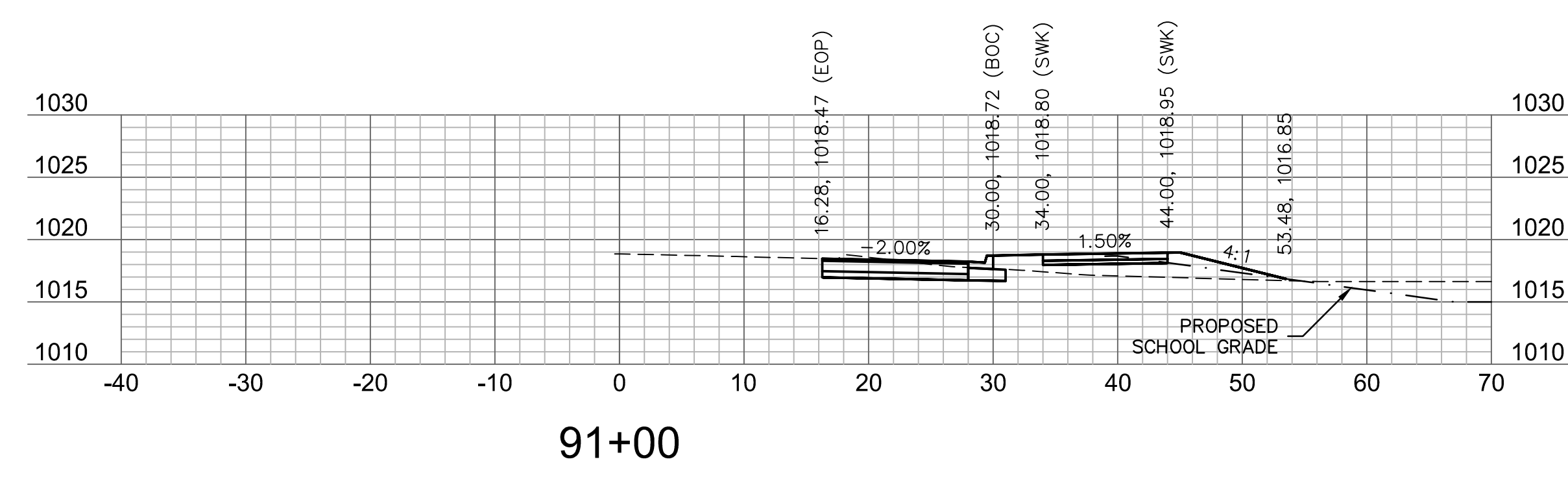
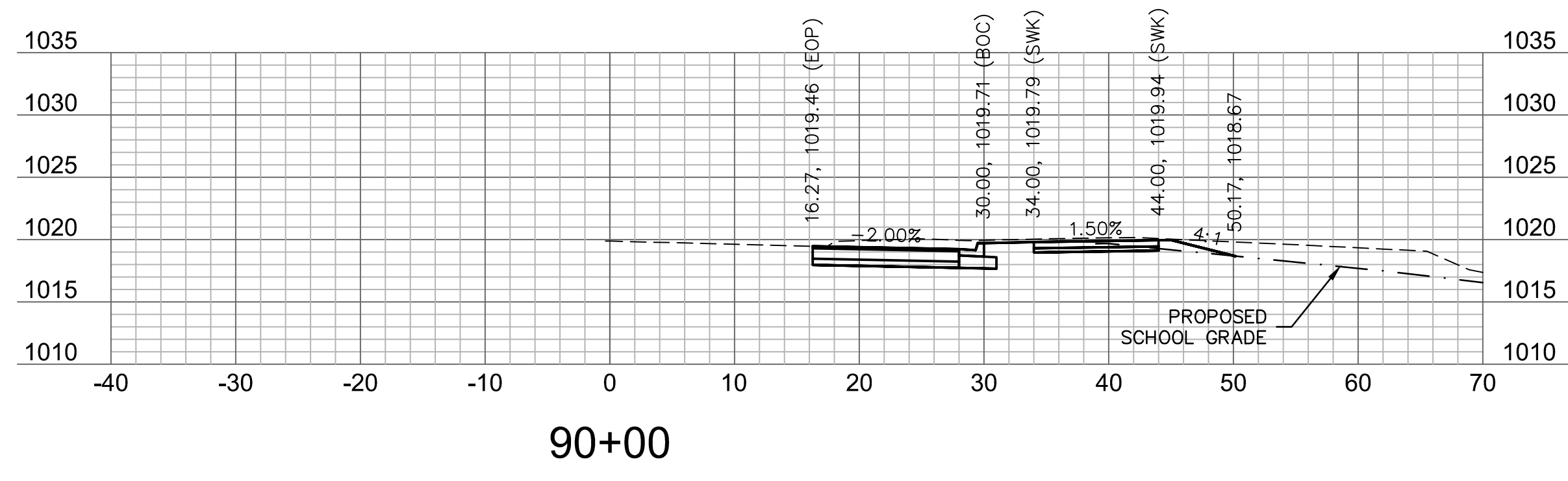
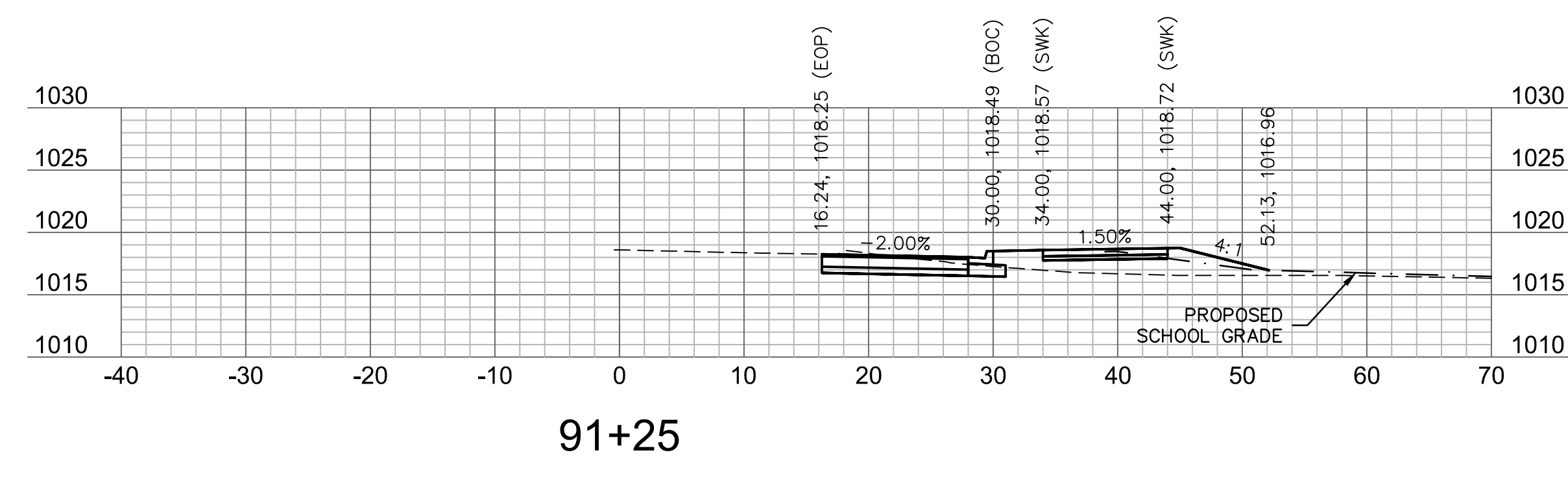
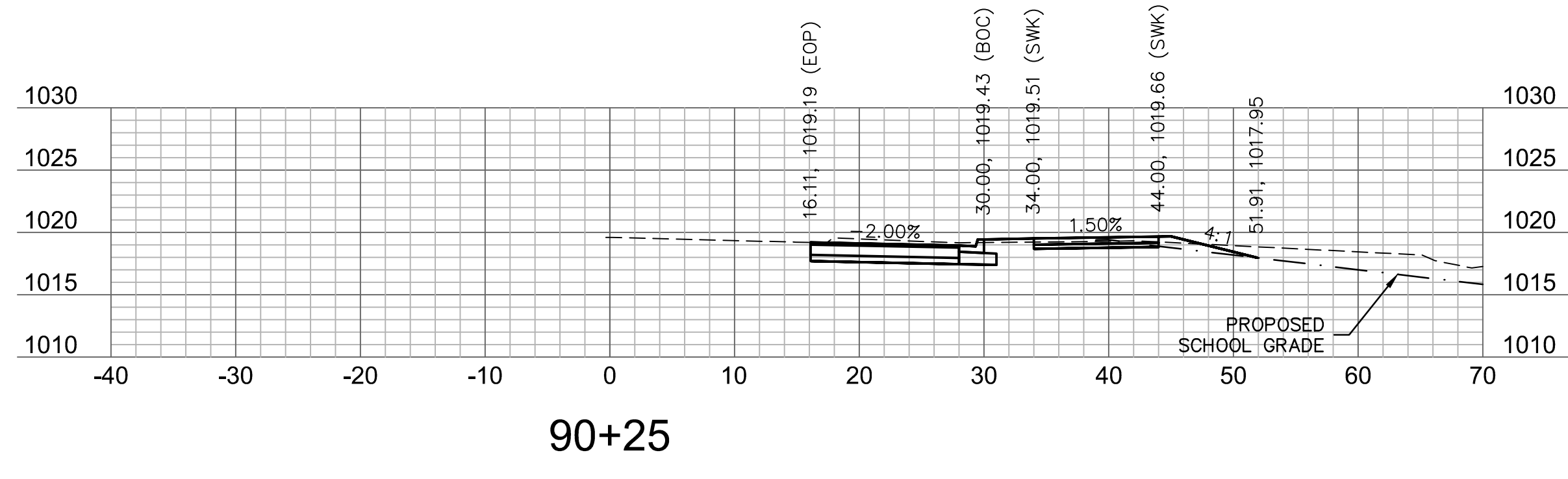
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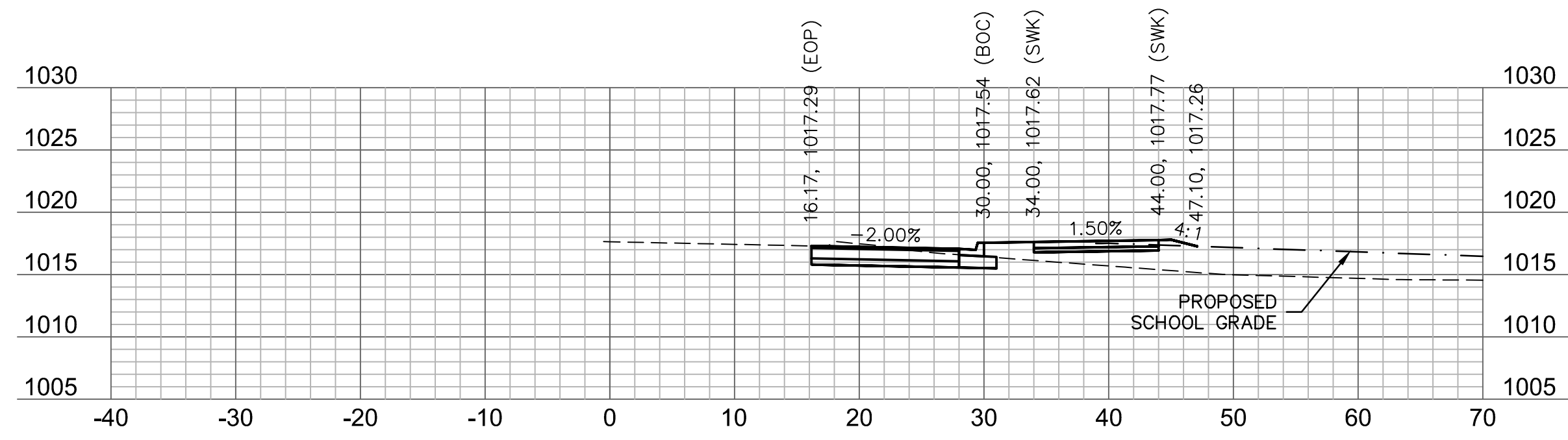
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2021

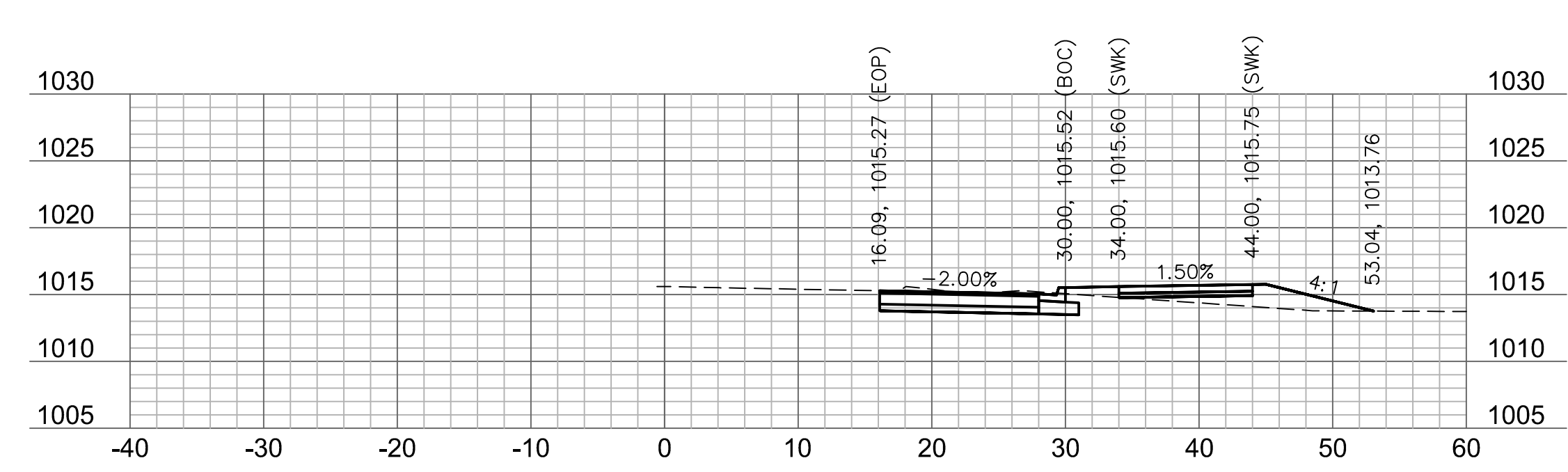
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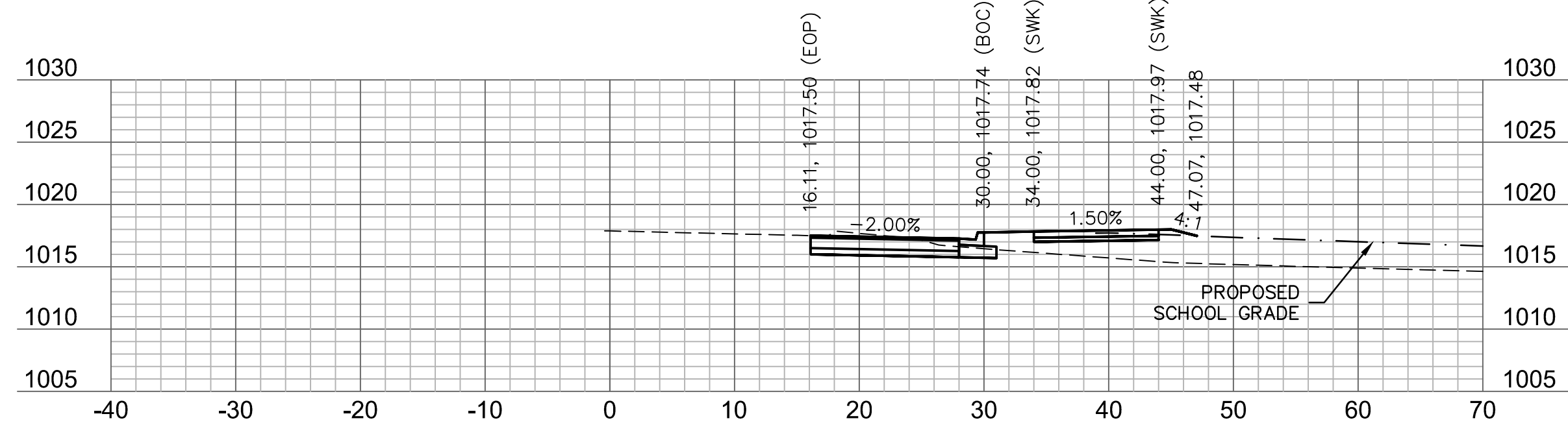
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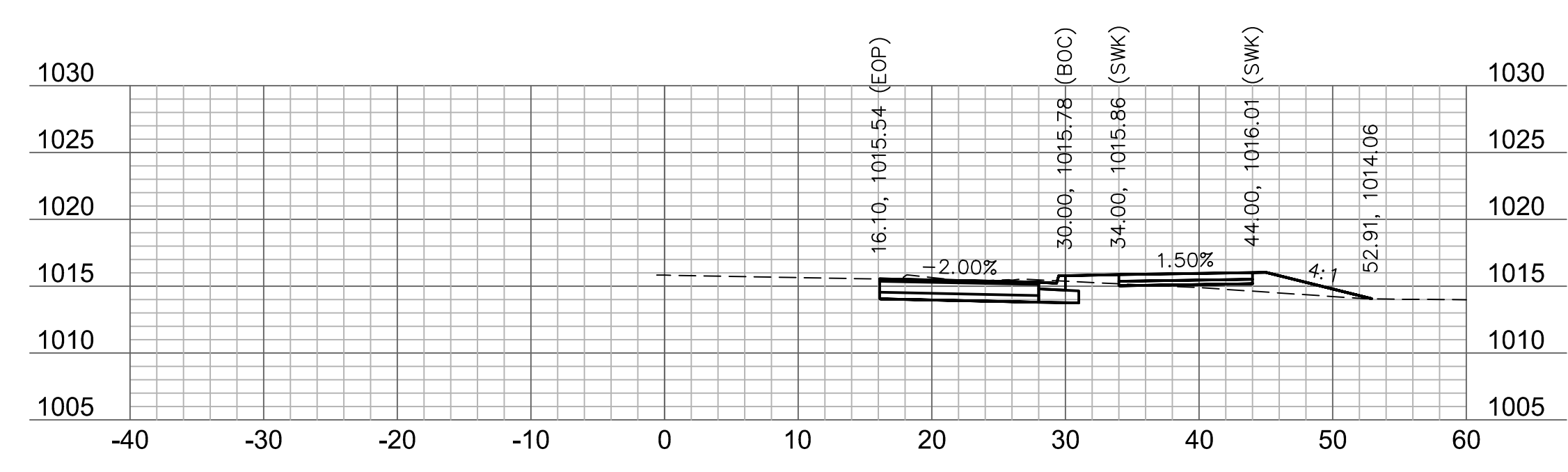
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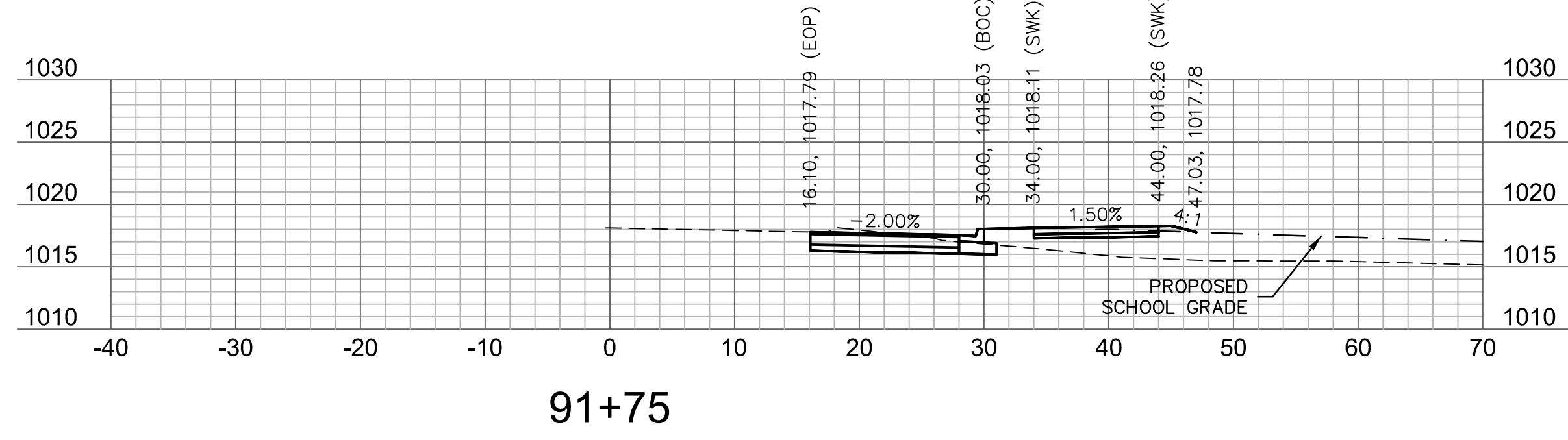
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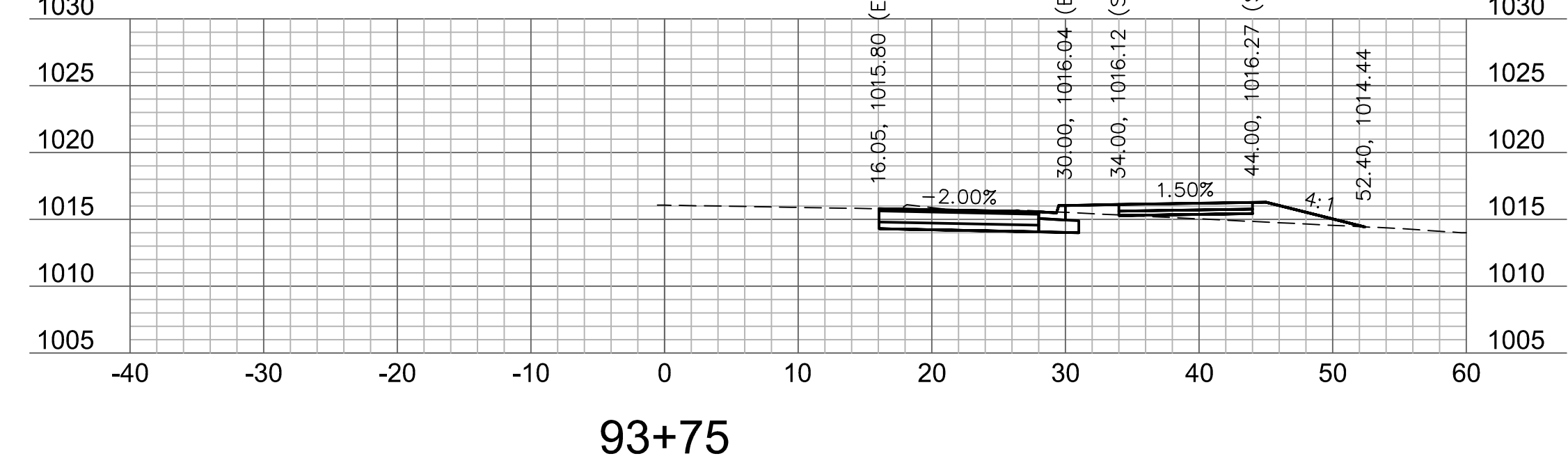
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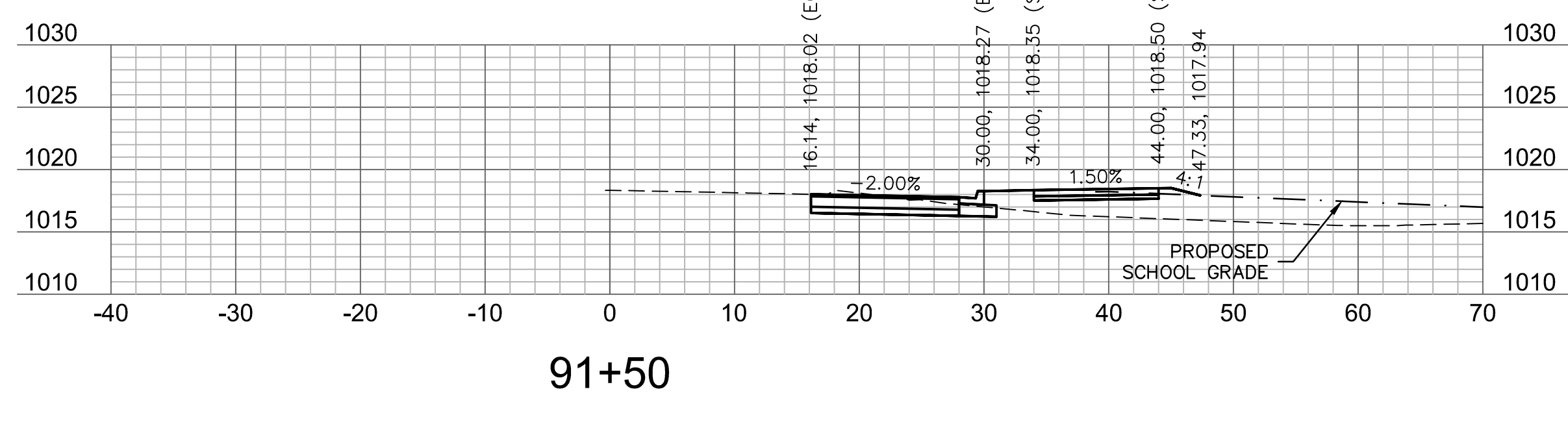
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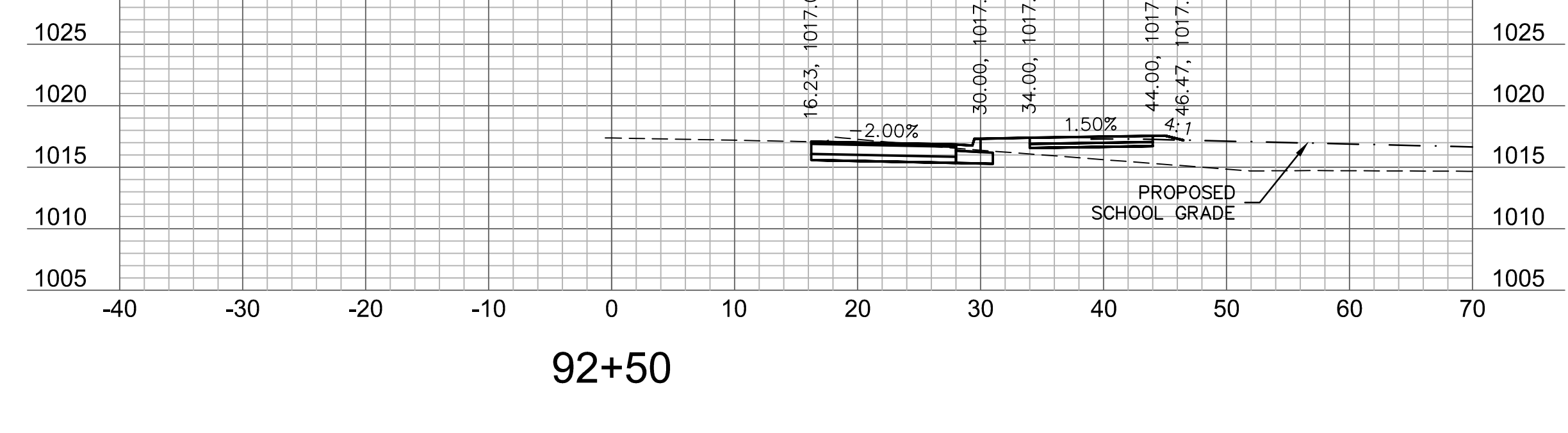
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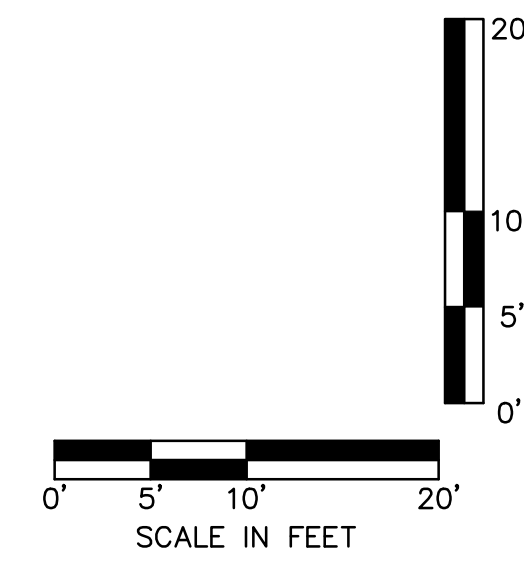
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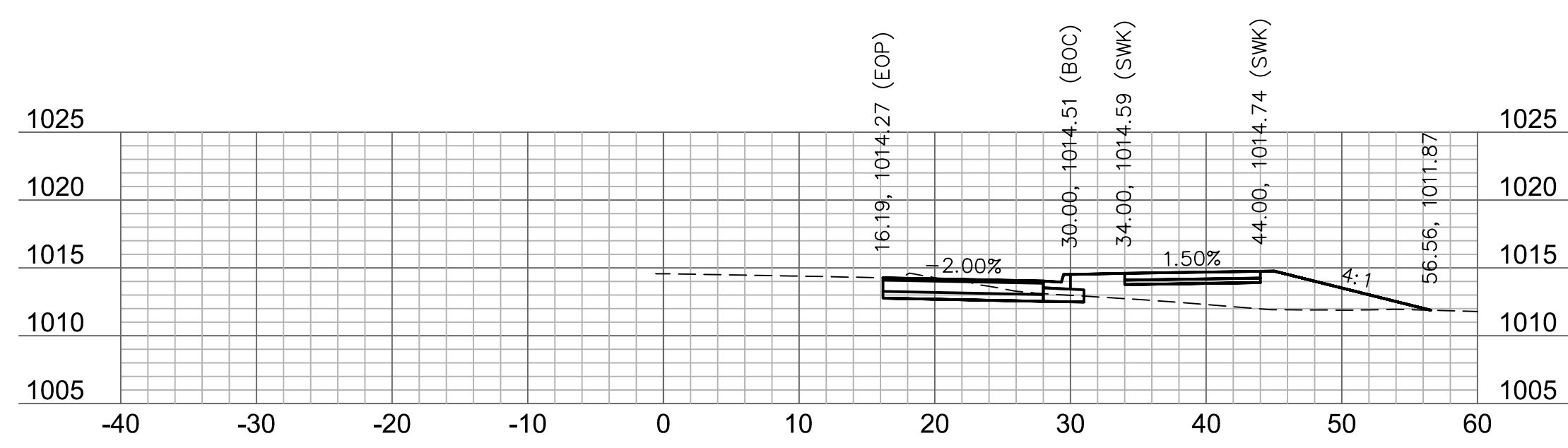
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 CROSS SECTIONS
 LEE'S SUMMIT MIDDLE SCHOOL #4
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 LEE'S SUMMIT, MISSOURI
 2021

C.O.A. NO.: 001592
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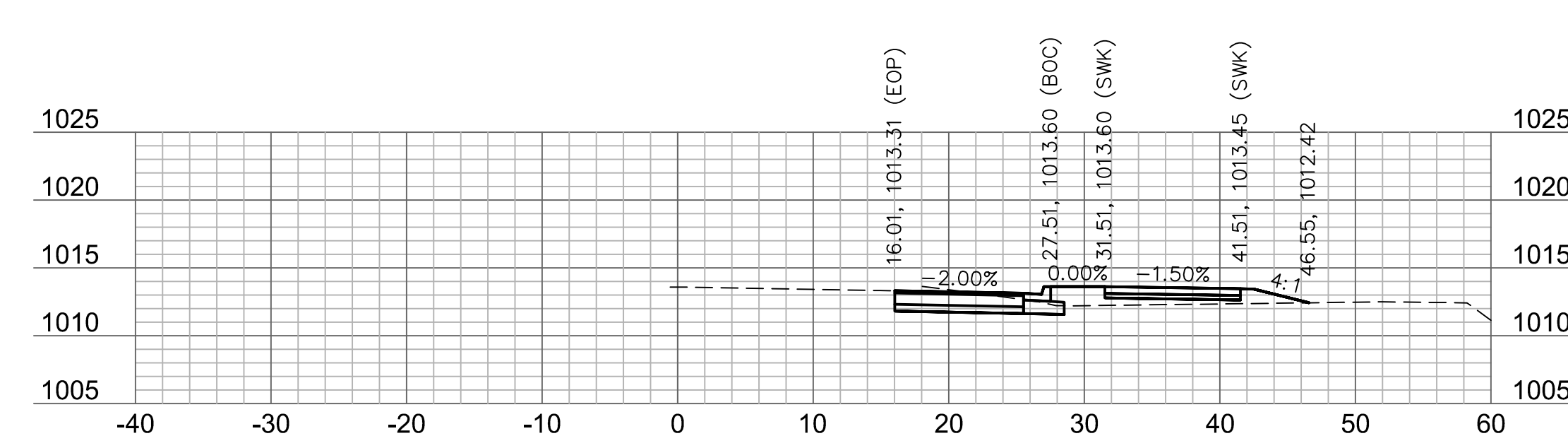
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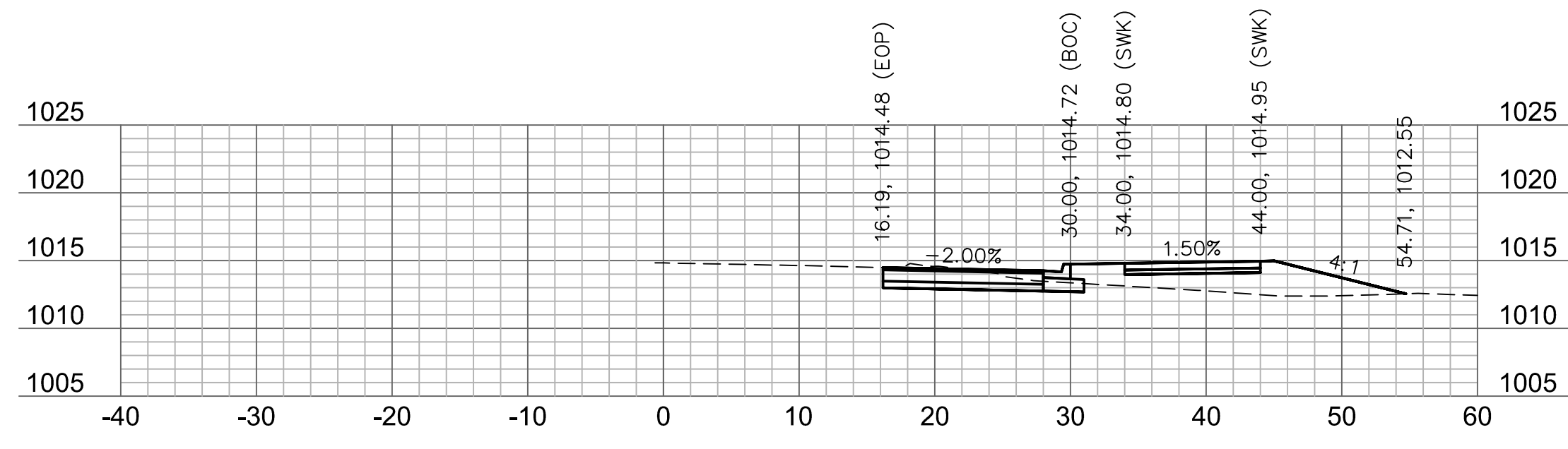
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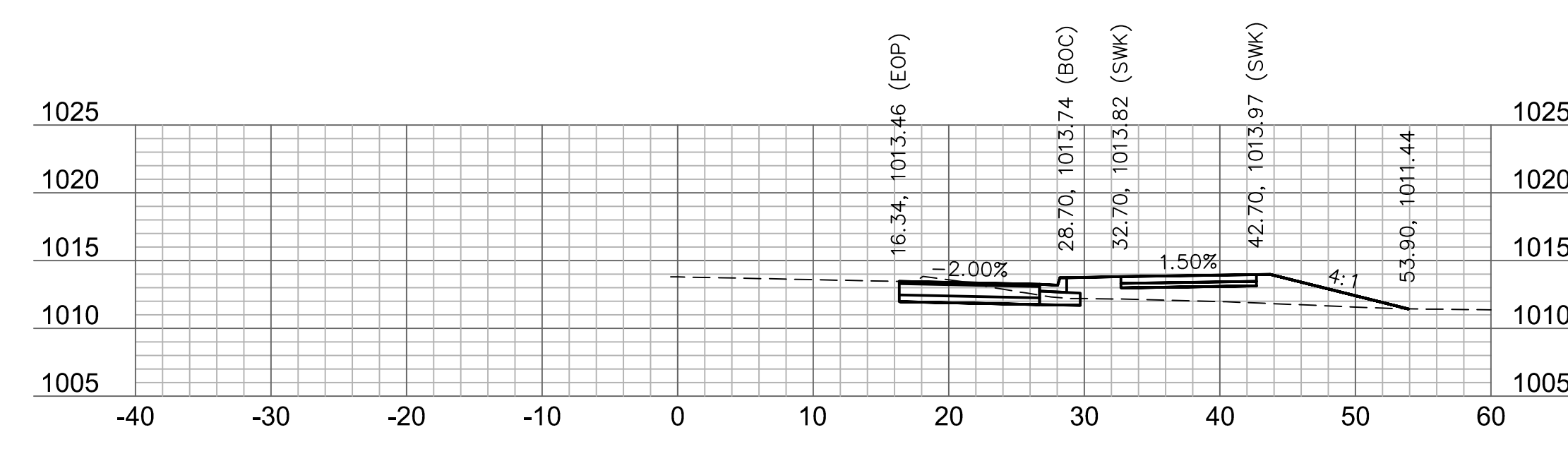
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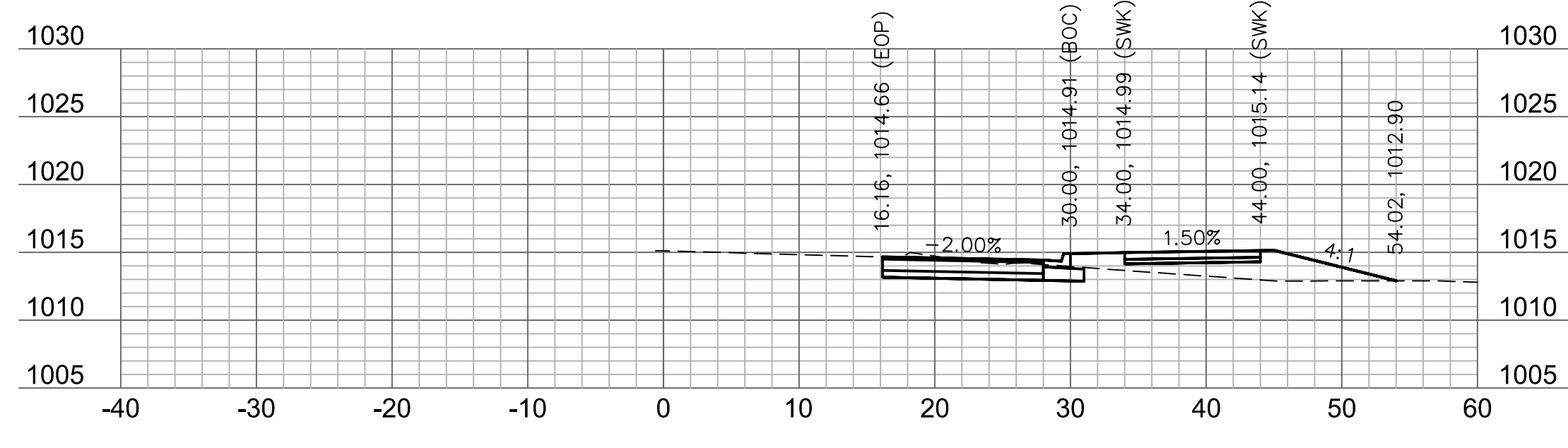
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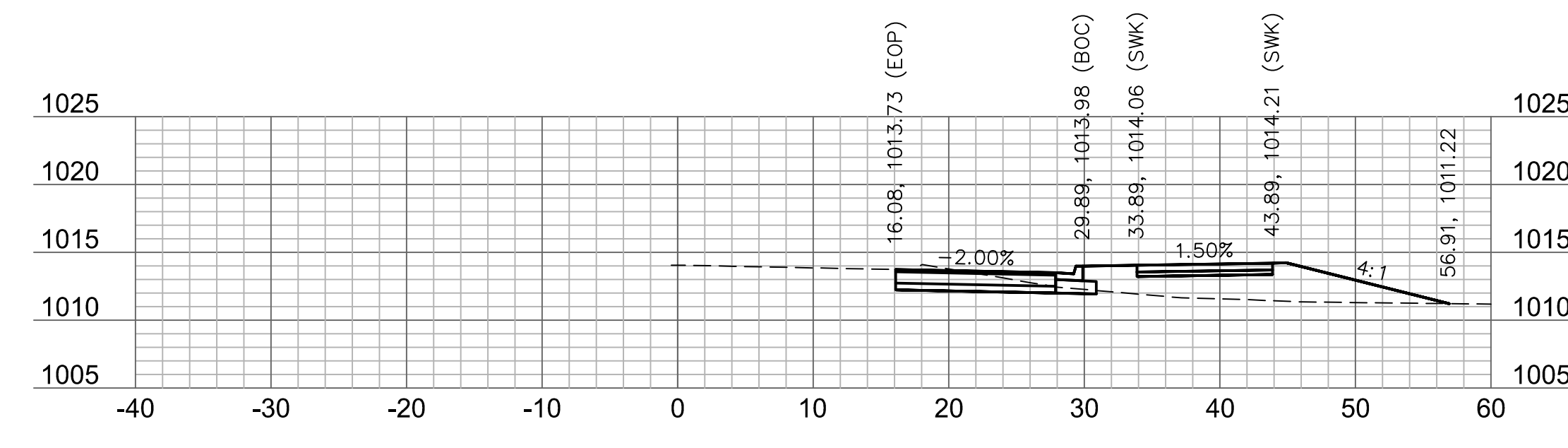
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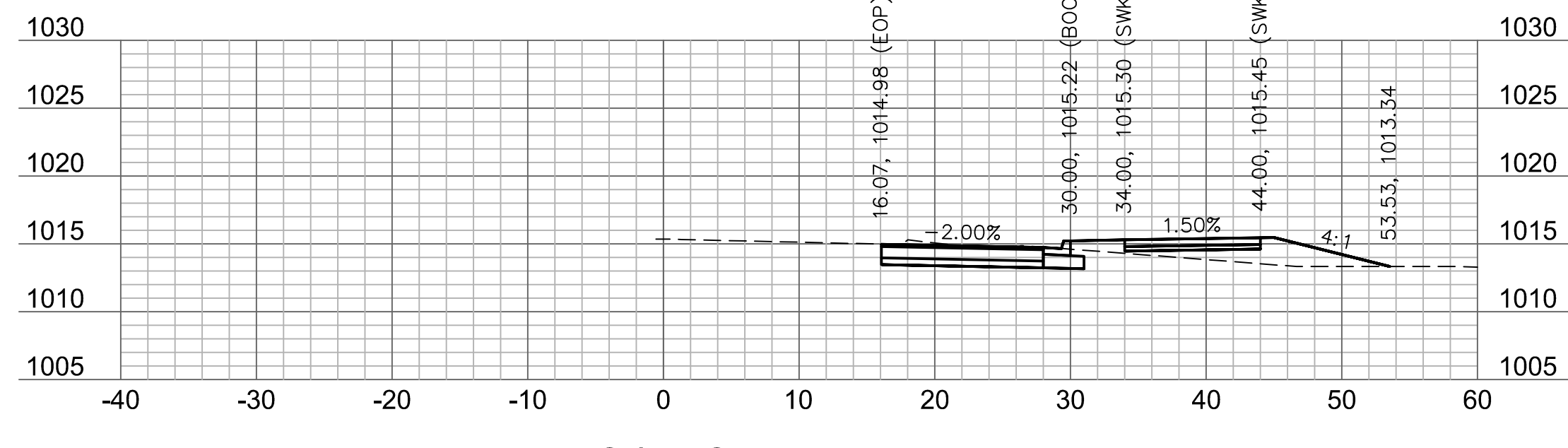
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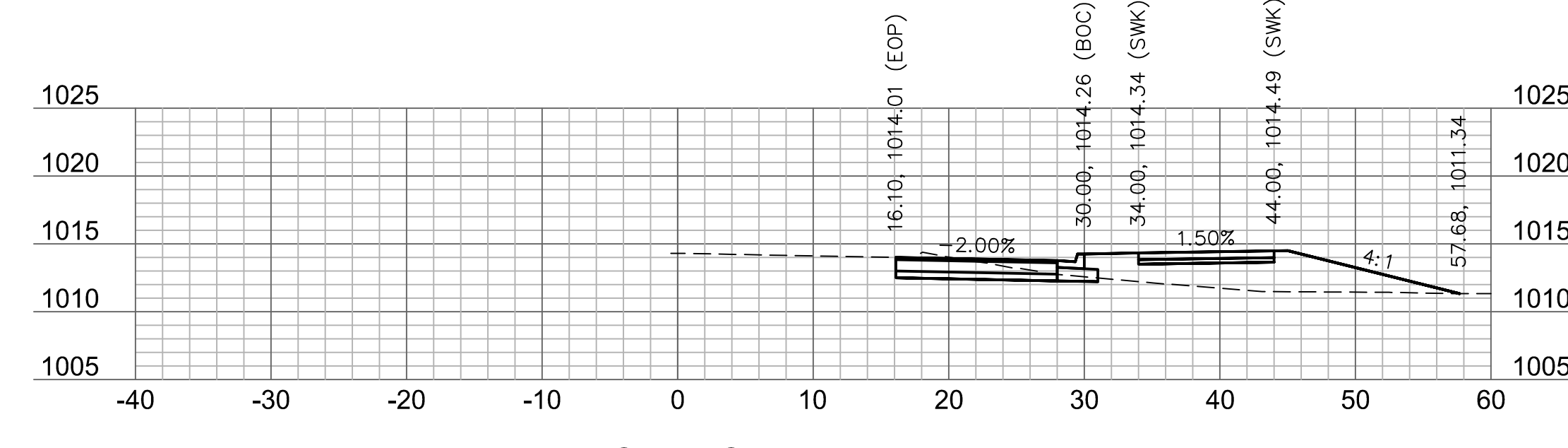
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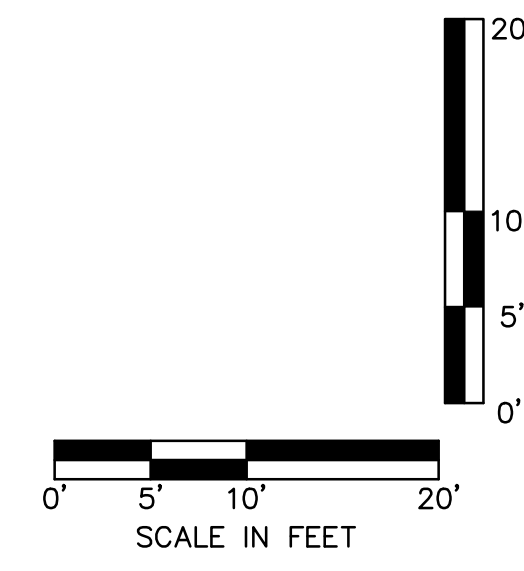
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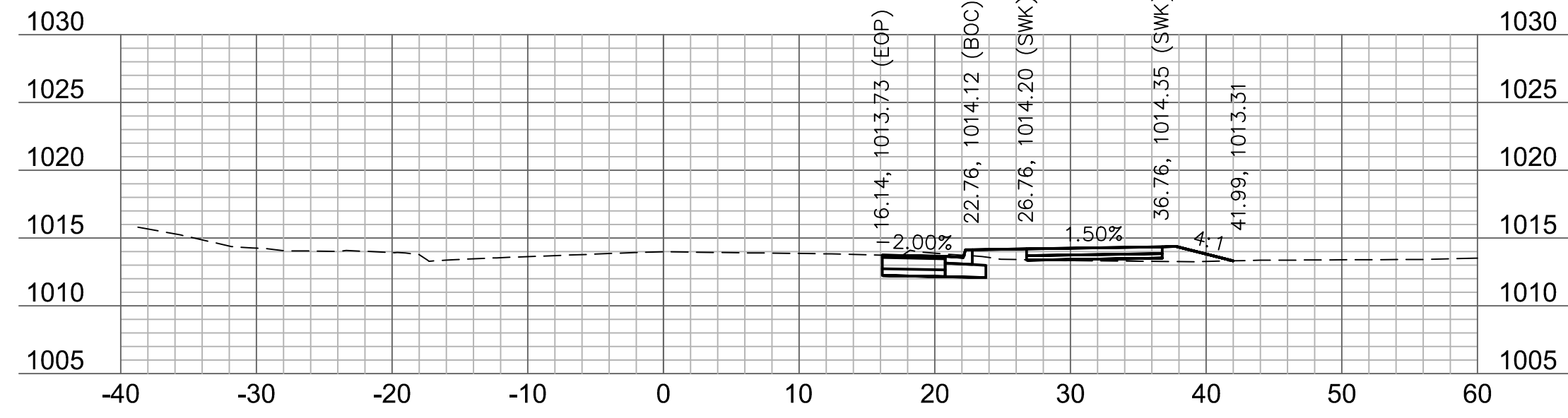
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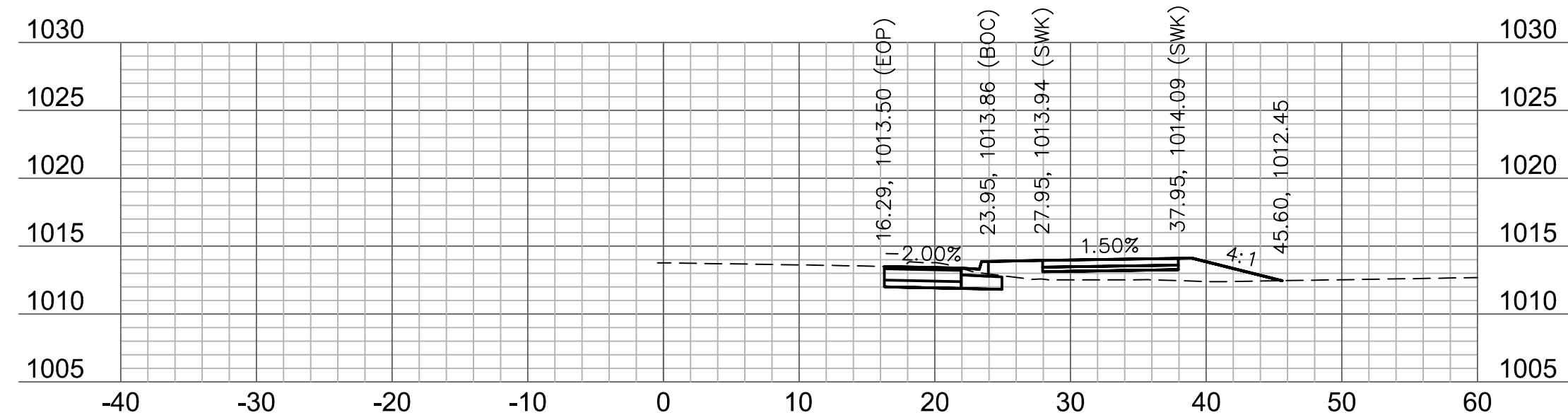


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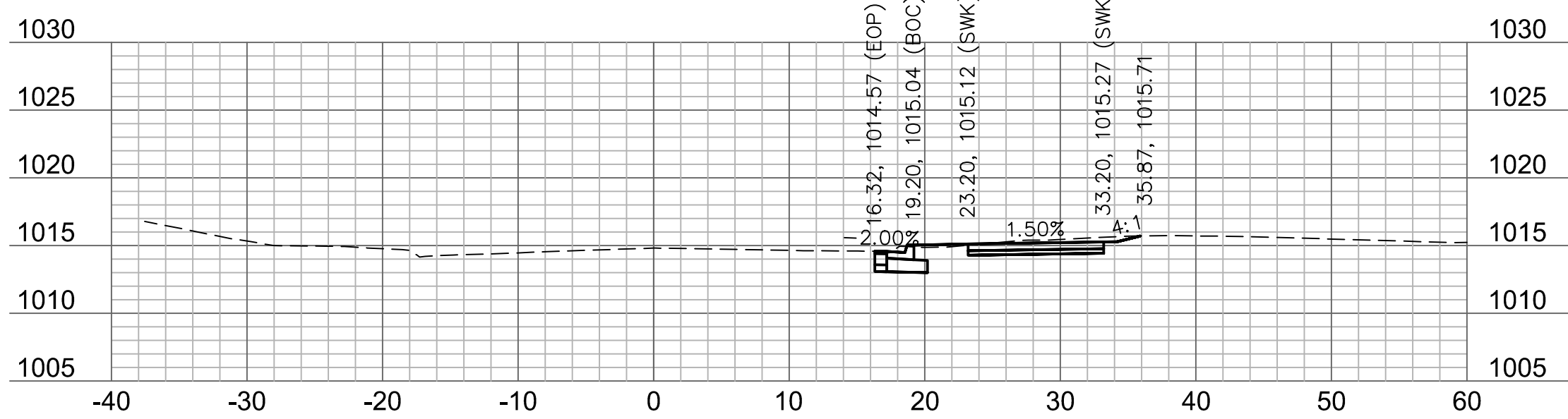
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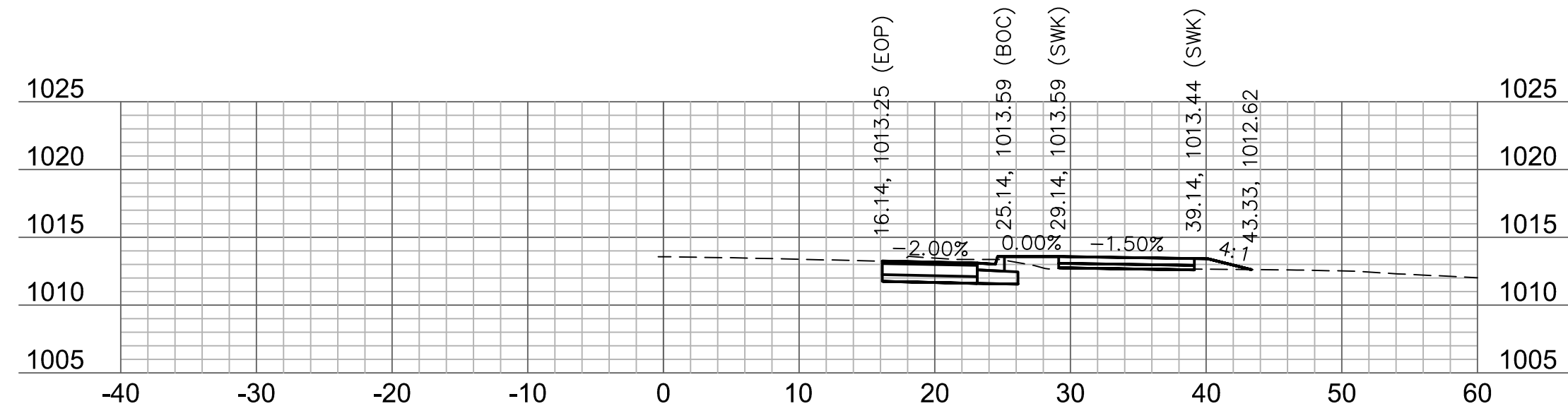
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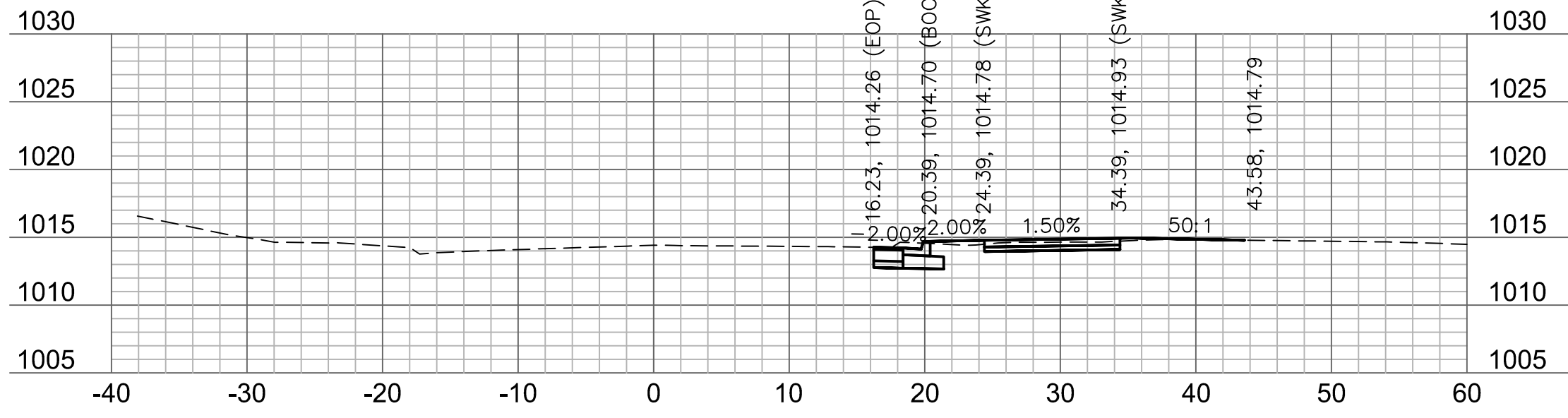
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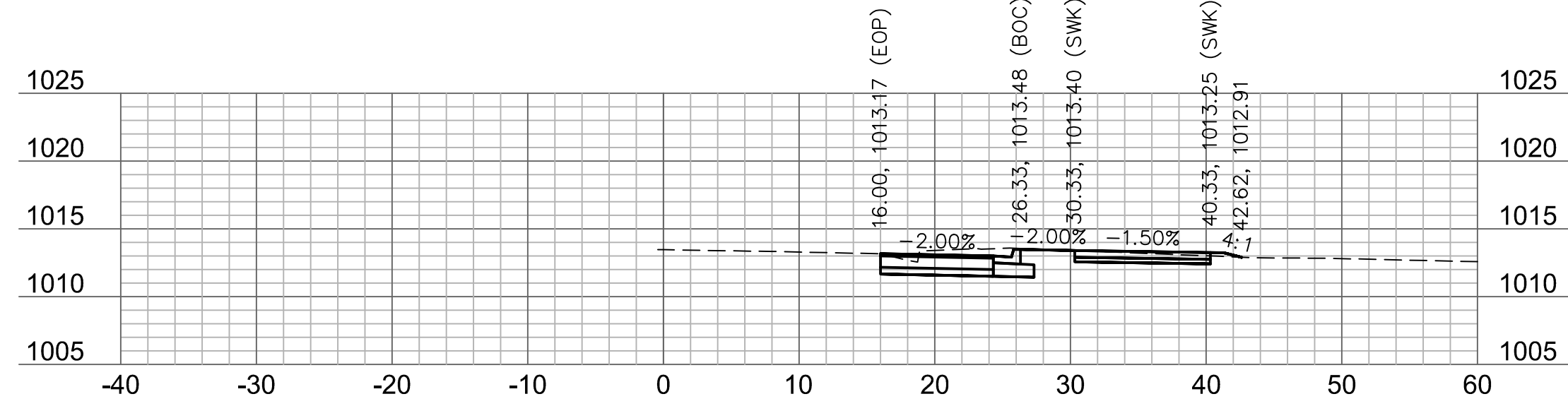
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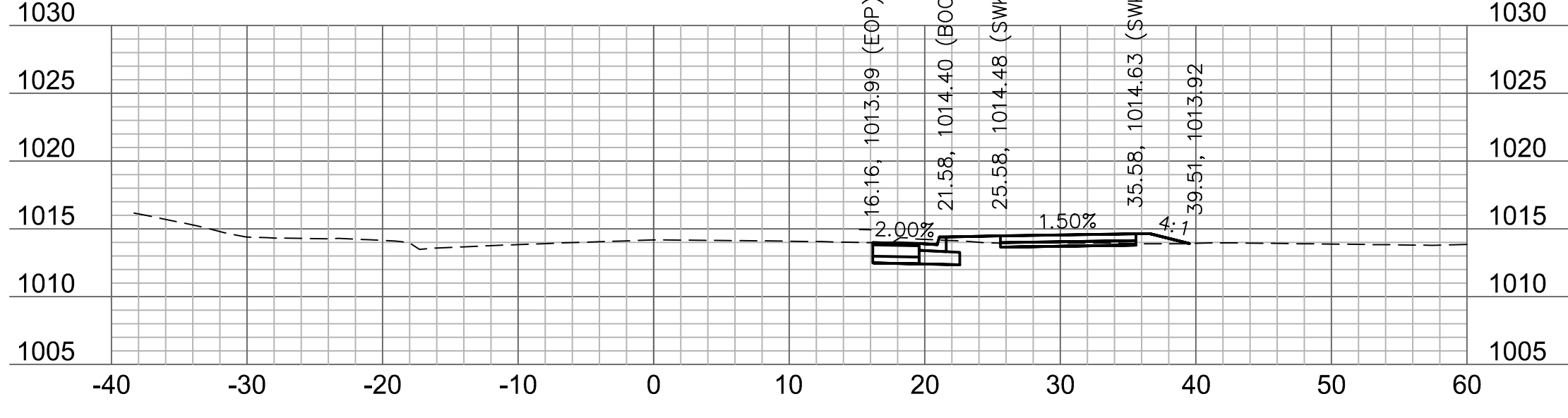
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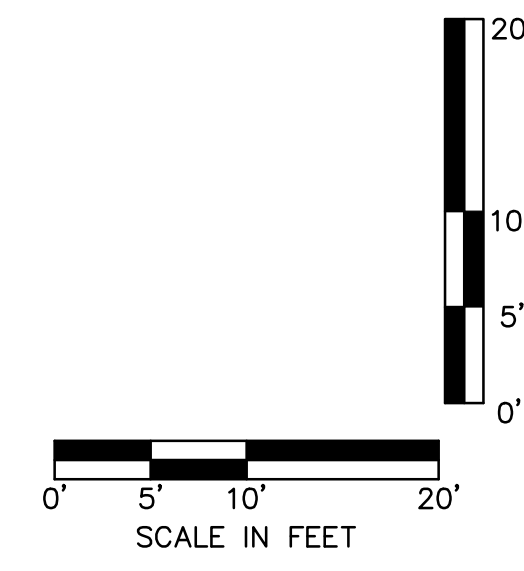
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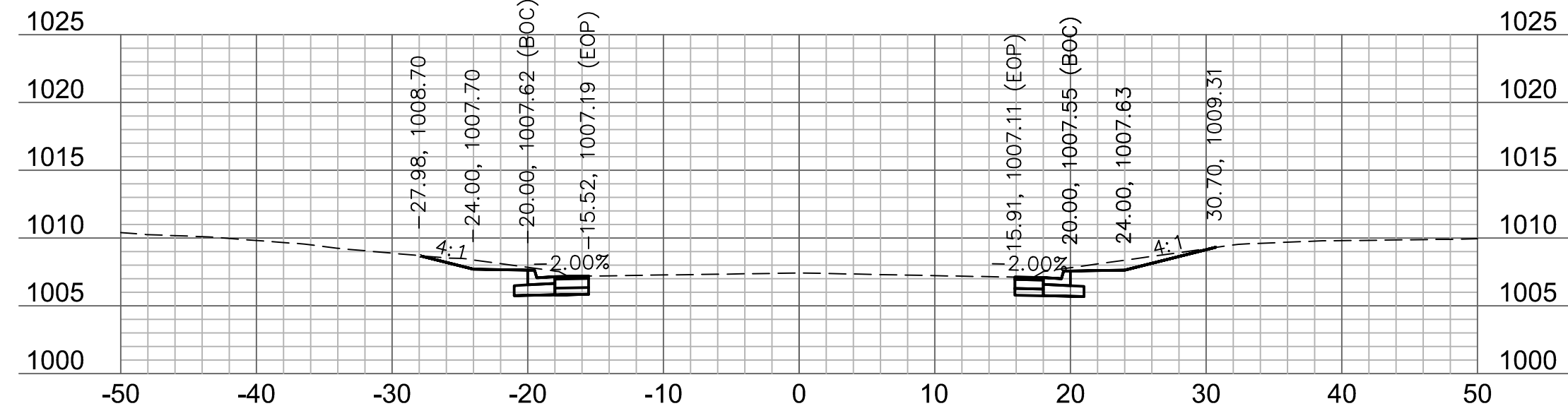
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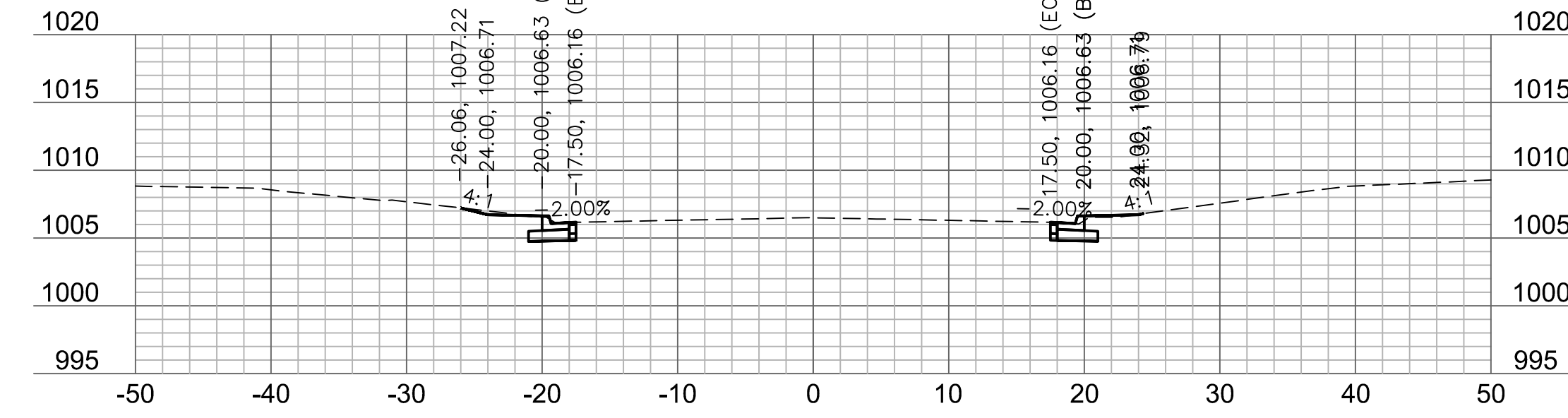
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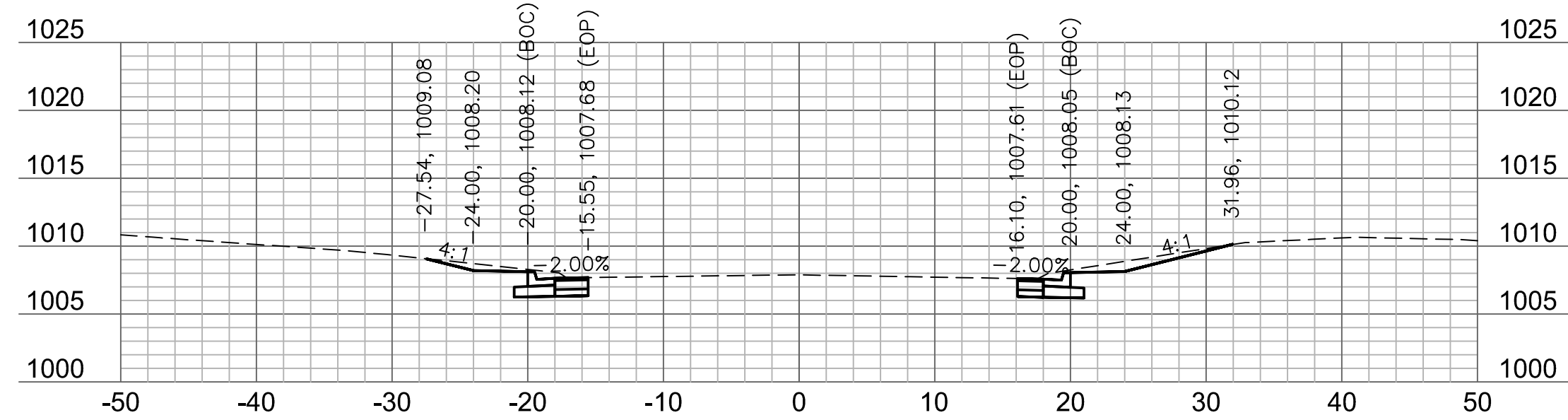
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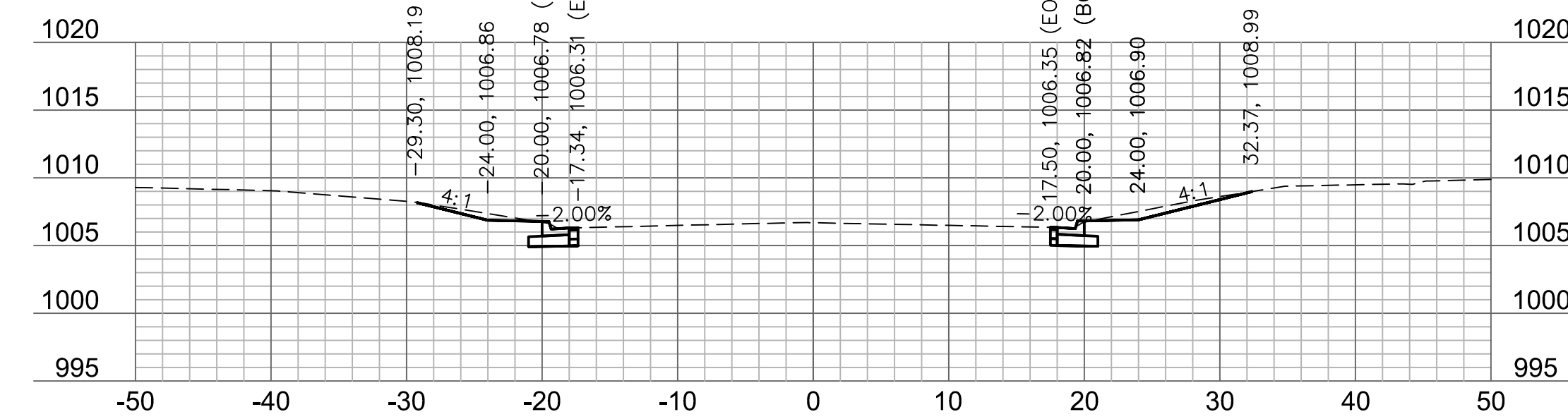
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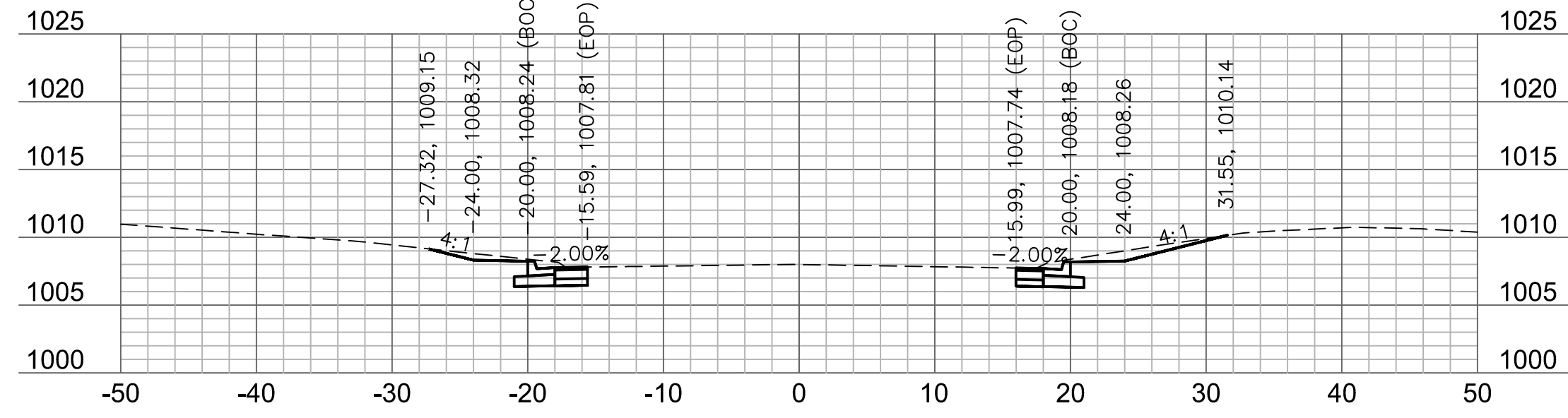
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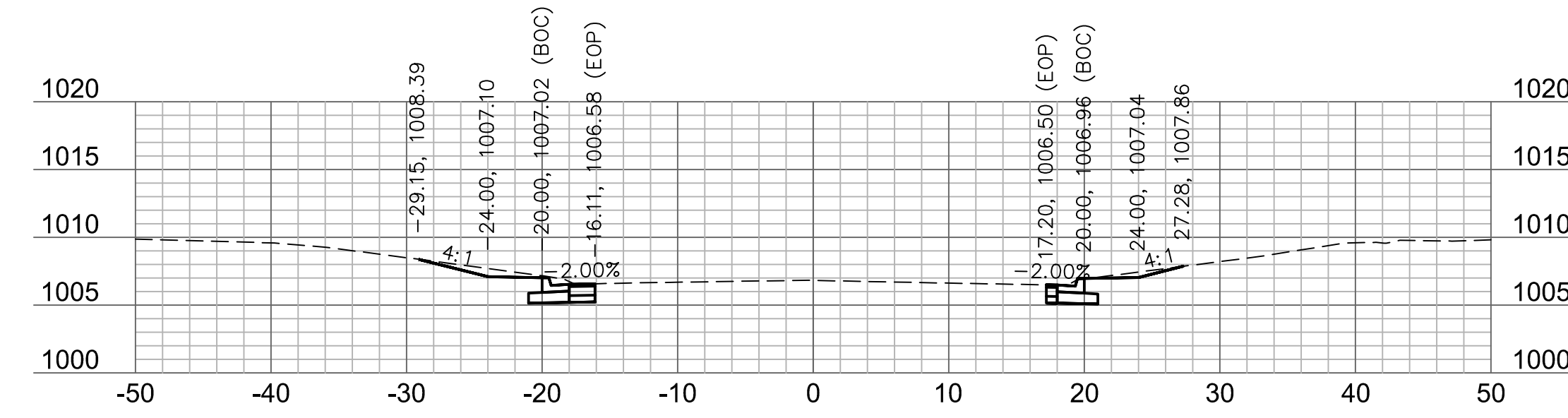
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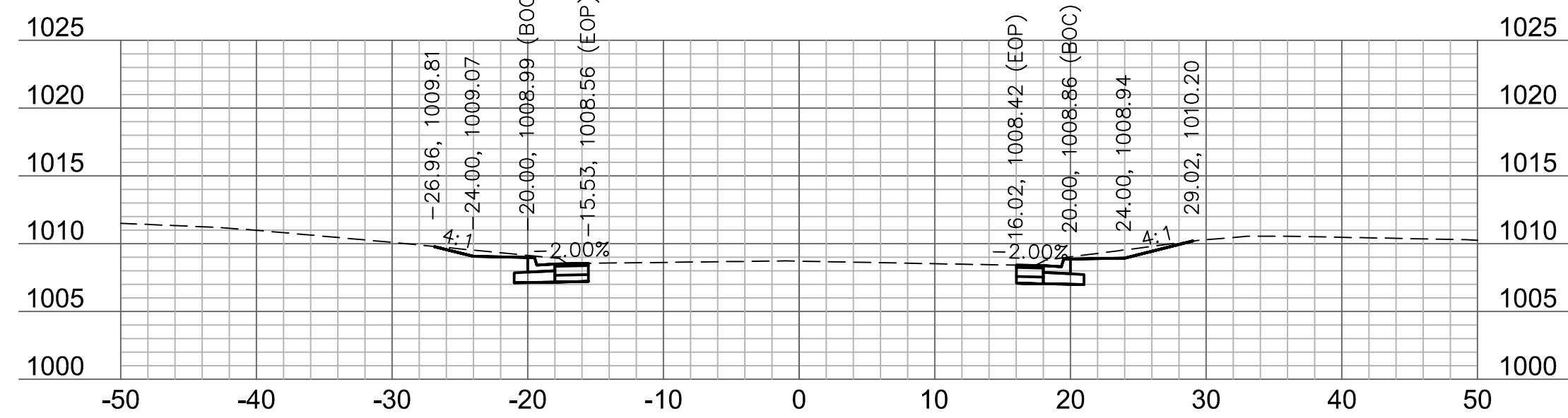
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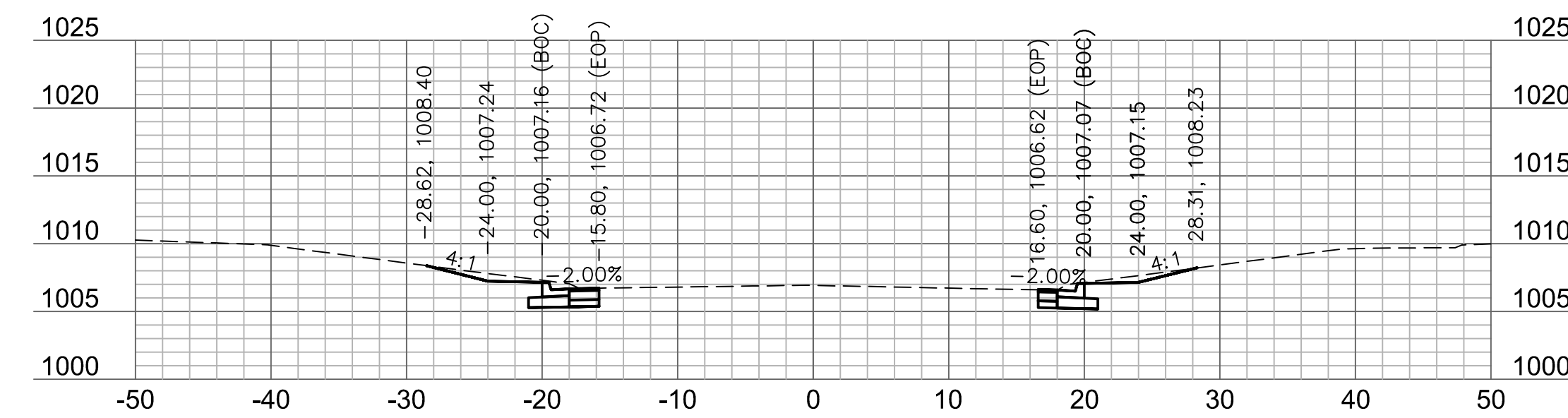
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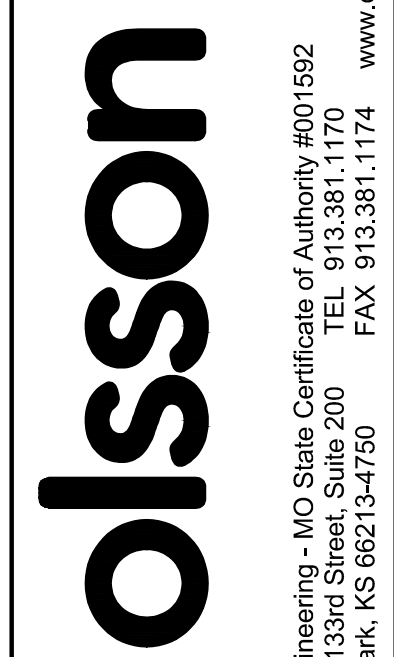
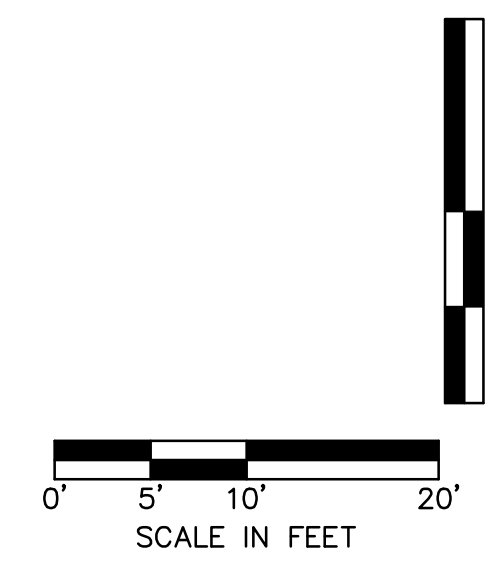
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201+00



201+75



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 7301 West 133rd Street, Suite 200 TEL: 913.381.1170
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RECORD DRAWINGS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

SE CENTURY DRIVE
 CROSS SECTIONS
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: MLW
 CHECKED BY: RPH
 APPROVED BY: RBE
 QA/QC BY: RBE
 PROJECT NO.: 020-0103
 DWG NO.: T_XSC01_0200103
 DATE: 2022-11-04