

PUBLIC STREET PLANS FOR LEE'S SUMMIT MIDDLE SCHOOL #4 PUBLIC ROAD IMPROVEMENTS CITY OF LEE'S SUMMIT JACKSON COUNTY, MISSOURI

LEGEND

▲CPT	SURVEY CONTROL POINT	☐	TRAFFIC SIGNAL BOX
▲TBM	SURVEY BENCHMARK	⊙	TRAFFIC SIGNAL MANHOLE
▲TBM	SURVEY TEMPORARY BENCHMARK	⊙—⊙	TRAFFIC SIGNAL POLE W/ ARM
⊙	GAS METER	⊙	TRAFFIC SIGNAL POLE
⊙	GAS RISER	⊙	TRAFFIC SIGNAL CONTROL BOX
⊙	GAS MANHOLE	⊙	TRAFFIC SIGNAL PEDESTAL
⊙	GAS REGULATOR	⊙	ELECTRIC MANHOLE
⊙	TELEVISION PEDESTAL	⊙	ELECTRIC METER
⊙	FIBER BOX	⊙	ELECTRIC RISER
⊙	FIBER PEDESTAL	⊙	ELECTRIC BOX
⊙	CABLE BOX	⊙	ELECTRIC CABINET
⊙	CABLE VAULT	⊙	ELECTRIC JUNCTION BOX
⊙	TELEPHONE PEDESTAL	⊙SPH	SPRINKLER HEAD
⊙	STORM MANHOLE	⊙SCV	SPRINKLER CONTROL VALVE
⊙	STORM GRATE	⊙	WATER METER PIT
⊙	SANITARY MANHOLE	⊙	FIRE HYDRANT
⊙YL	YARD LIGHT	⊙	WATER METER
⊙LTP	LIGHT POLE	⊙WV	WATER VALVE
⊙	POWER POLE	⊙FP	FLAG POLE
⊙LPPP	POWER POLE W/ LIGHT	⊙	SIGN
⊙	GUY WIRE	⊙	BOLLARD
⊙	STUMP	⊙	WOOD POST
⊙	BUSH	⊙	STEEL POST
⊙	EVERGREEN TREE	⊙COL	COLUMN
⊙	DECIDUOUS TREE	⊙	BORE HOLE
⊙	MAILBOX	⊙	FIBER OPTIC VAULT

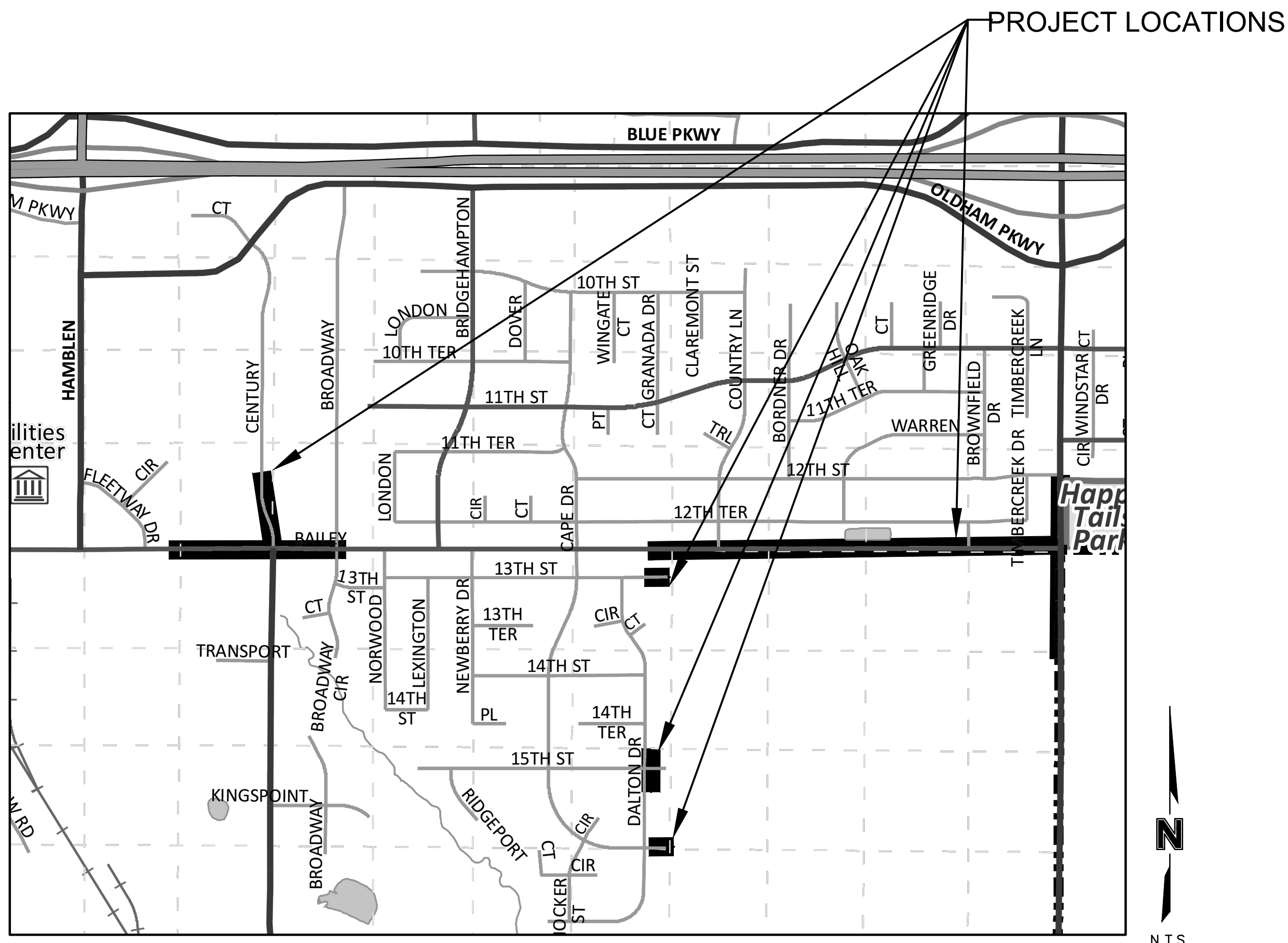
---	SECTION LINE
---	PROPERTY LINE
---	CENTER LINE
---	PROPOSED ROW LINE
---	EXISTING ROW LINE
---	UTILITY EASEMENT
-1374	EXISTING MAJOR CONTOUR
-1374	EXISTING MINOR CONTOUR
-1371	PROPOSED MAJOR CONTOUR
-1371	PROPOSED MINOR CONTOUR
TEL	EXISTING TELEPHONE LINE
---	EXISTING SANITARY LINE
---	EXISTING STORM 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
---	PROPOSED WOOD PRIVACY FENCE
---	EXISTING TREELINE
FO	EXISTING FIBER OPTIC LINE
CATV	EXISTING CATV LINE
---	PROPOSED UNDERDRAIN

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


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!!



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 15TH 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 | GAS - SPIRE GAS
3025 SE CLOVER DR
LEE'S SUMMIT, MO 64082
(816) 969-2200 | FIBER OPTIC - GOOGLE FIBER
909 BROADWAY BLVD.
KANSAS CITY, MO 64105.
(913) 663-1900 |
| WASTEWATER - LITTLE BLUE VALLEY SEWER DISTRICT
21208 E OLD ATHONTON ROAD
INDEPENDENCE, MO 640581
(816) 796-7660 | 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 |

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PREPARED & SUBMITTED BY:



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

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: X-X

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: X-X

APPROVED BY:
CITY OF LEE'S SUMMIT

XXXXXXX, P.E. _____ DATE _____
CITY ENGINEER

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

FINAL PLANS
NOT FOR CONSTRUCTION

RYAN B. FLEMING
MO. NO. PE-2002003161

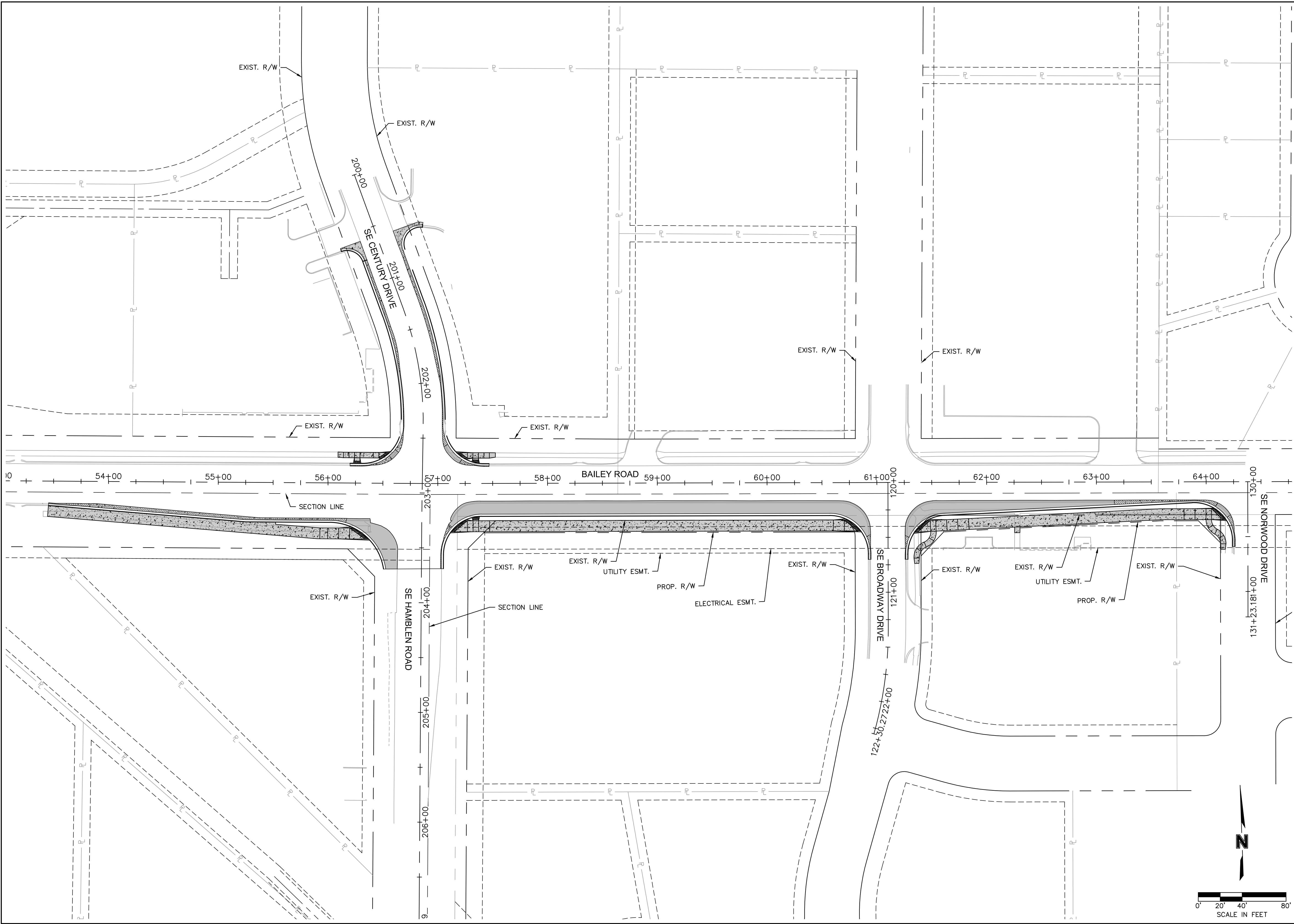
BY	REVISIONS DESCRIPTION	DATE	REV. NO.

TITLE SHEET
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 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.O.A. NO.:	001592
DRAWN BY:	RPH
CHECKED BY:	RBE
APPROVED BY:	RBE
QA/QC BY:	XXX
PROJECT NO.:	020-0103
DWG NO.:	T_TTL01_0200103
DATE:	2021-02-01

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GENERAL LAYOUT

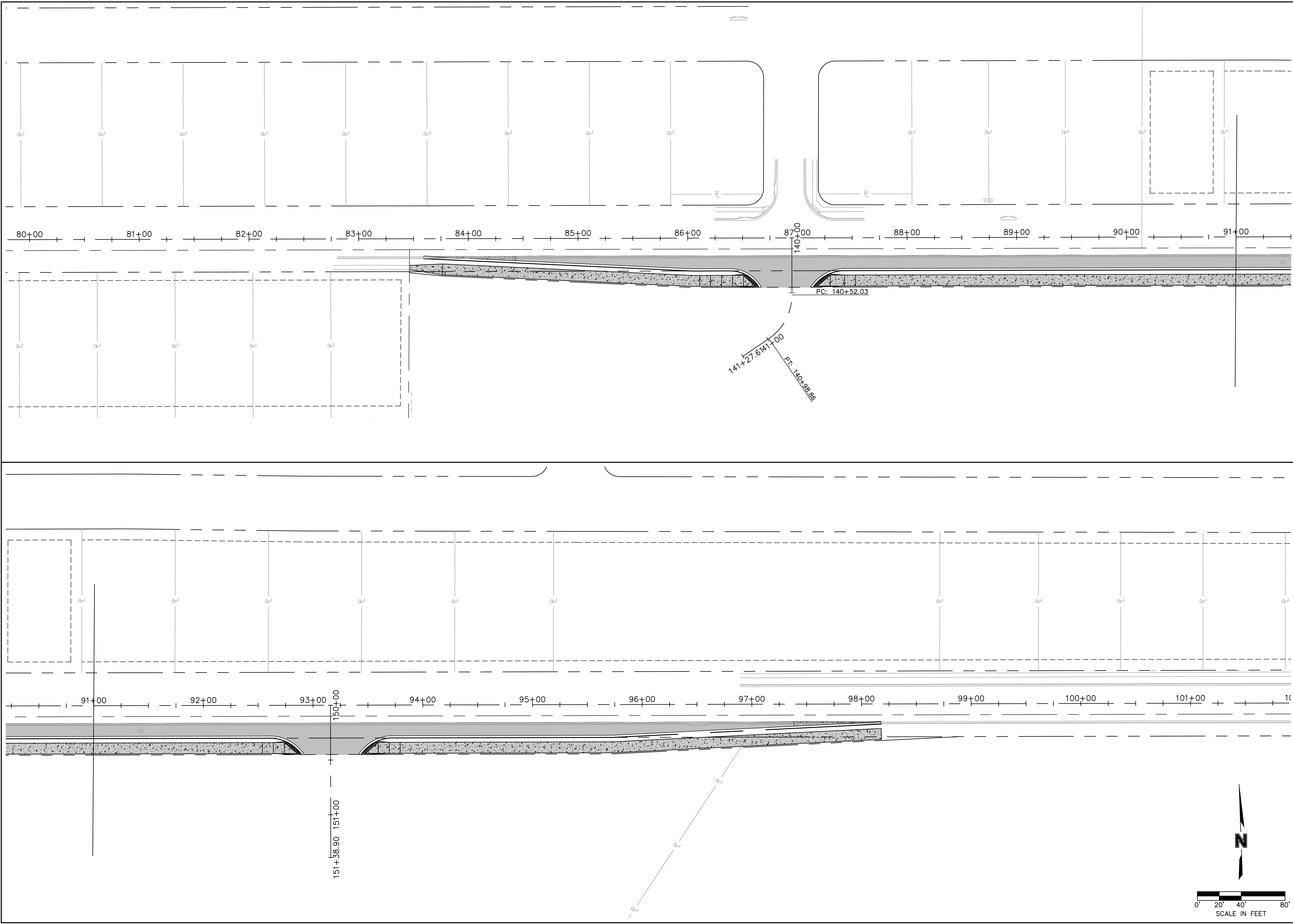
LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

2021

REVISIONS

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APPROVED BY:	RBE	QA/QC BY:	XXX	PROJECT NO.:	020-0103
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 USER: rholler C_PBASE_0200103



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GENERAL LAYOUT

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 BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2021

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SHEET
 3 OF 100

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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.

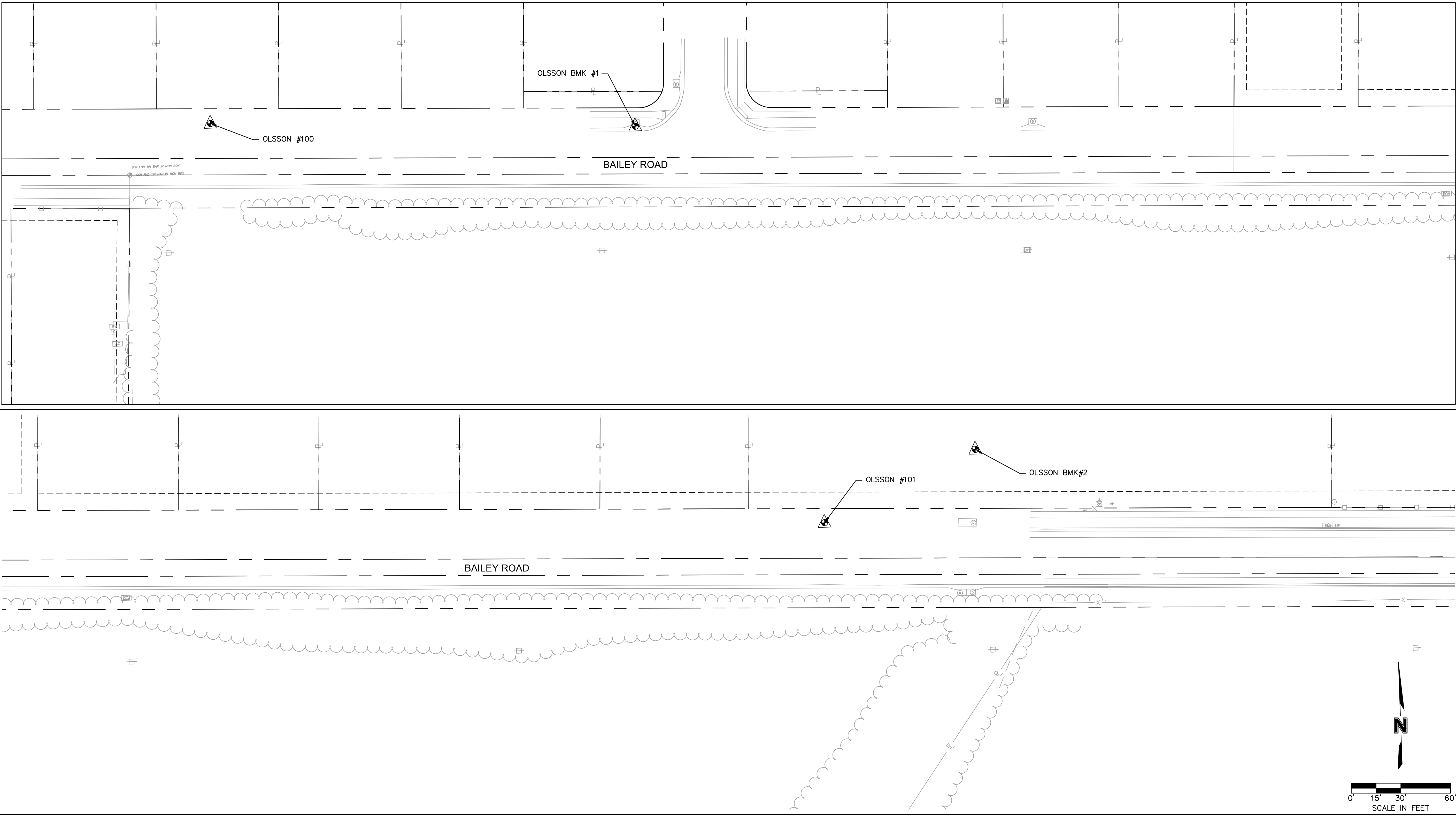
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Olsson Benchmark #1:
 Set chiseled square cut on center front face of a curb inlet on North side of SE Bailey Rd. ±42' West of Country Ln.
 Elevation: 1028.43'

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'



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 MO. NO. PE-2002003161

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SURVEY CONTROL

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

LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
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SHEET 5 OF 100

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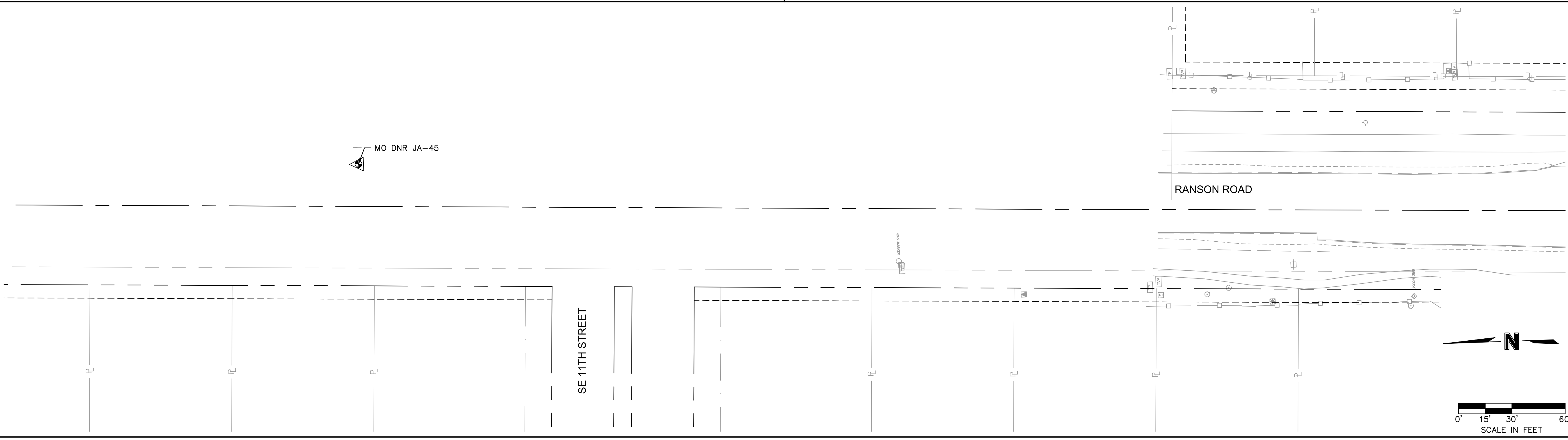
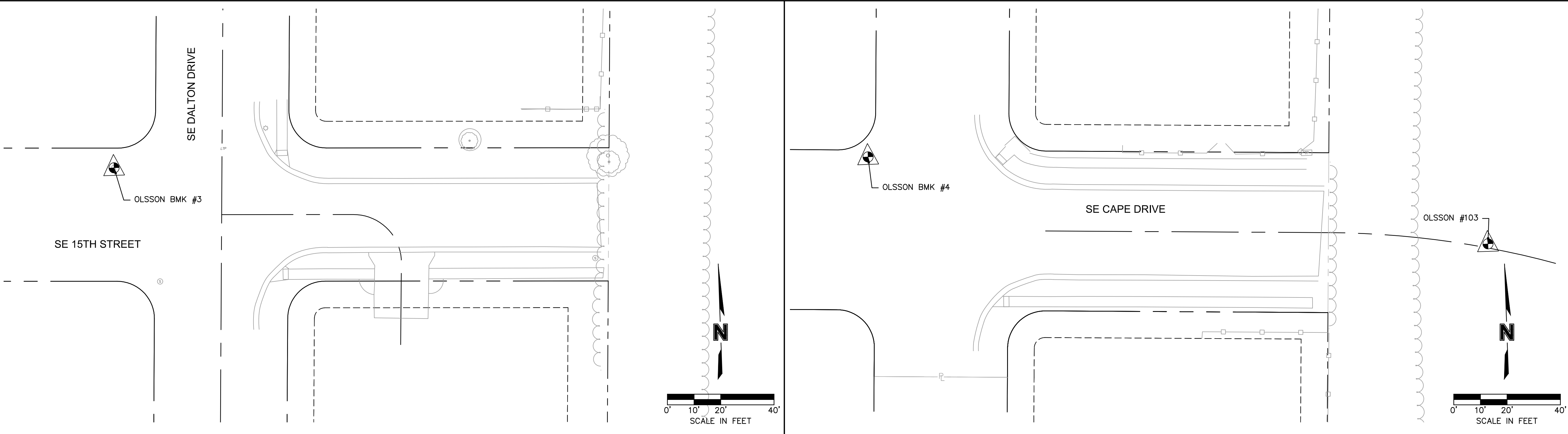
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 BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

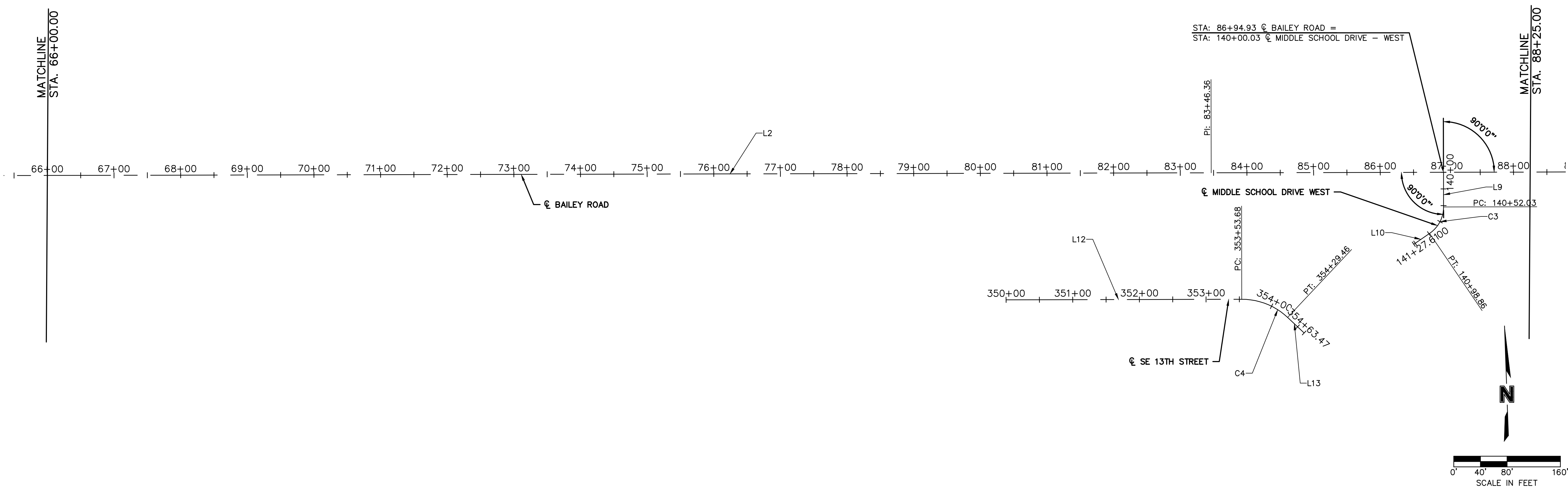
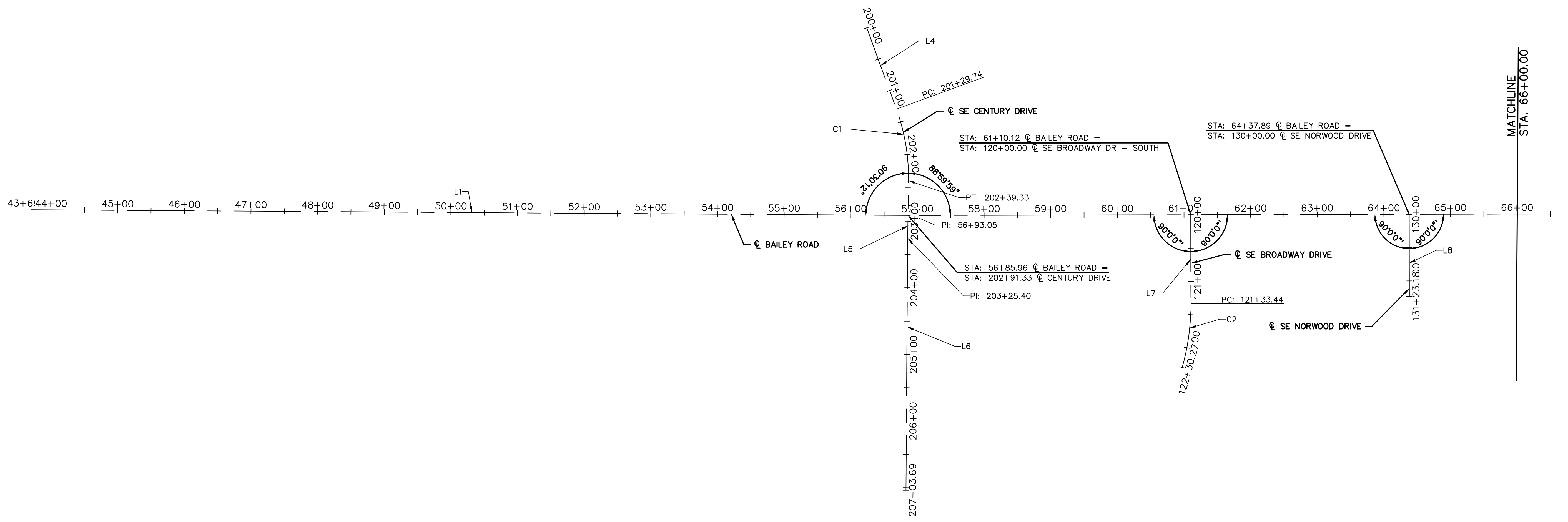
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 APPROVED BY: RBE
 QA/QC BY: XXX
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 DATE: 2021-02-01

USER: rholter

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ALIGNMENT DATA

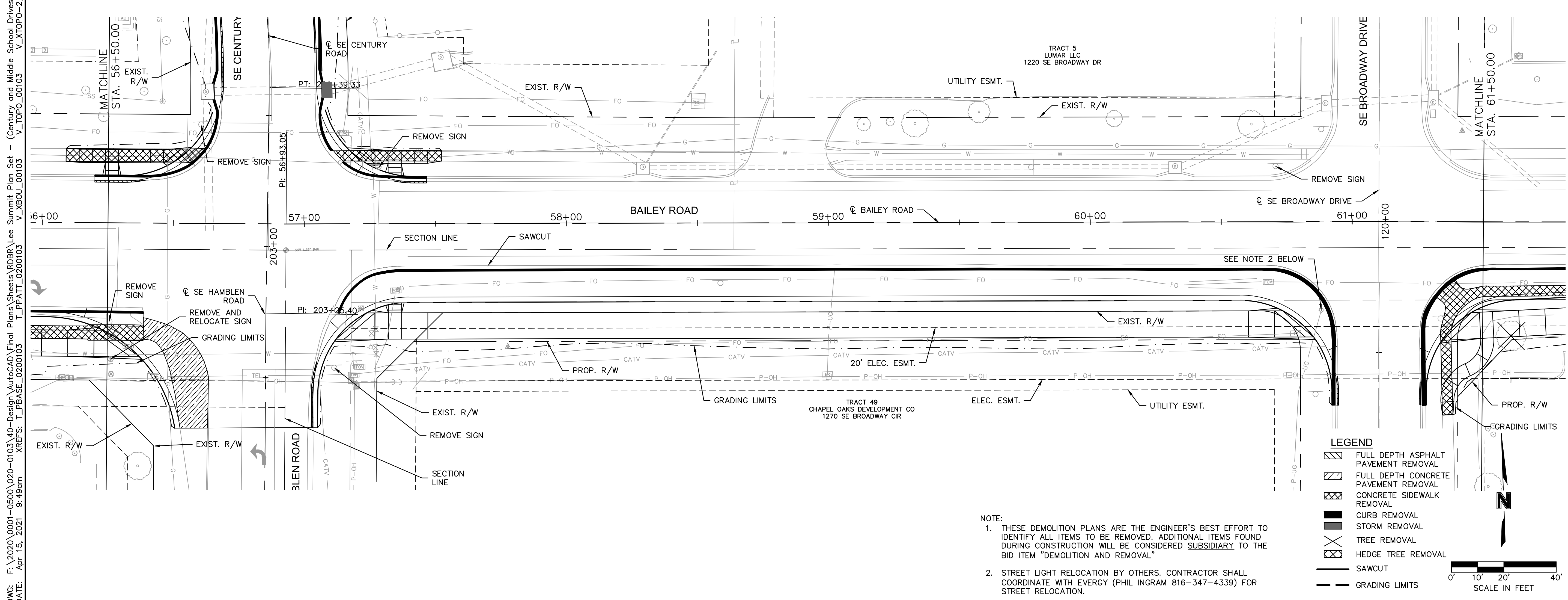
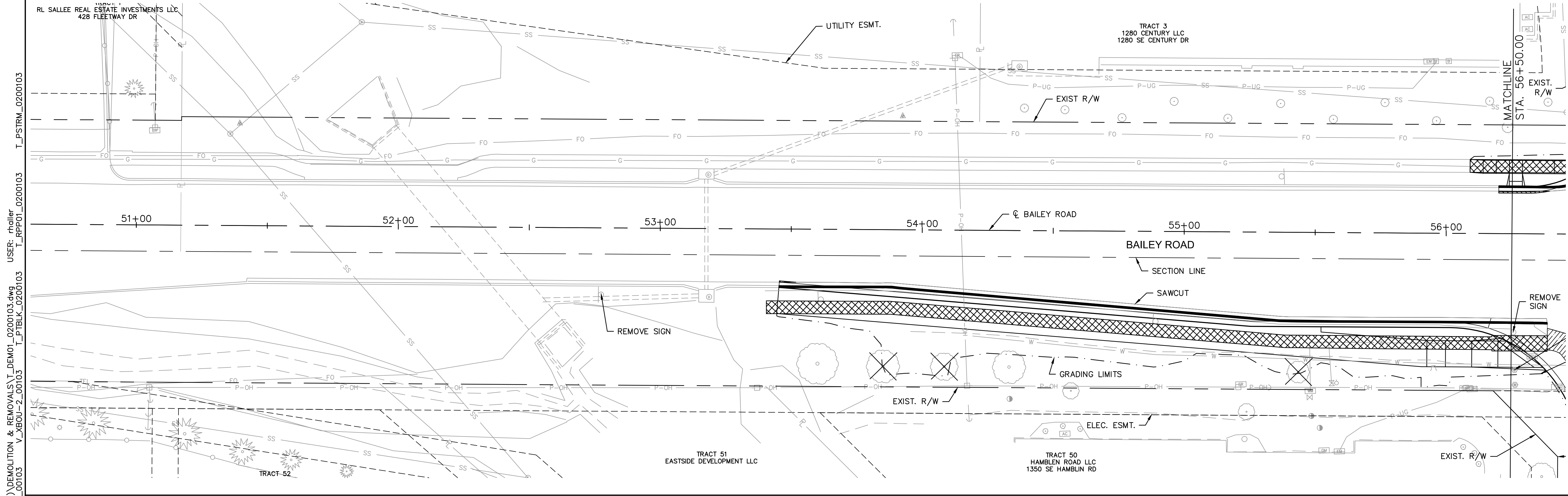
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SHEET 7 OF 100

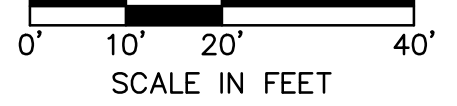


LEGEND

- 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\RDR\Lee Summit Plan Set - (Century and Middle School Drives)\DEMOLITION & REMOVALS\T_DEM01_0200103.dwg
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FINAL PLANS
 NOT FOR CONSTRUCTION

REV. NO.	DATE	REVISIONS DESCRIPTION

BY: RYAN B. FLEMING
MO. NO. PE-2002003161

2021

REVISIONS

DEMOLITION & REMOVALS
BAILEY ROAD

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

C.O.A. NO.: 001592
DRAWN BY: RPH
CHECKED BY: RBE
APPROVED BY: RBE
QA/QC BY: XXX
PROJECT NO.: 020-0103
DWG NO.: T_DEM01_0200103
DATE: 2021-02-01

2021

REVISIONS

DEMOLITION & REMOVALS
BAILEY ROAD

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

C.O.A. NO.: 001592
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APPROVED BY: RBE
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PROJECT NO.: 020-0103
DWG NO.: T_DEM01_0200103
DATE: 2021-02-01

2021

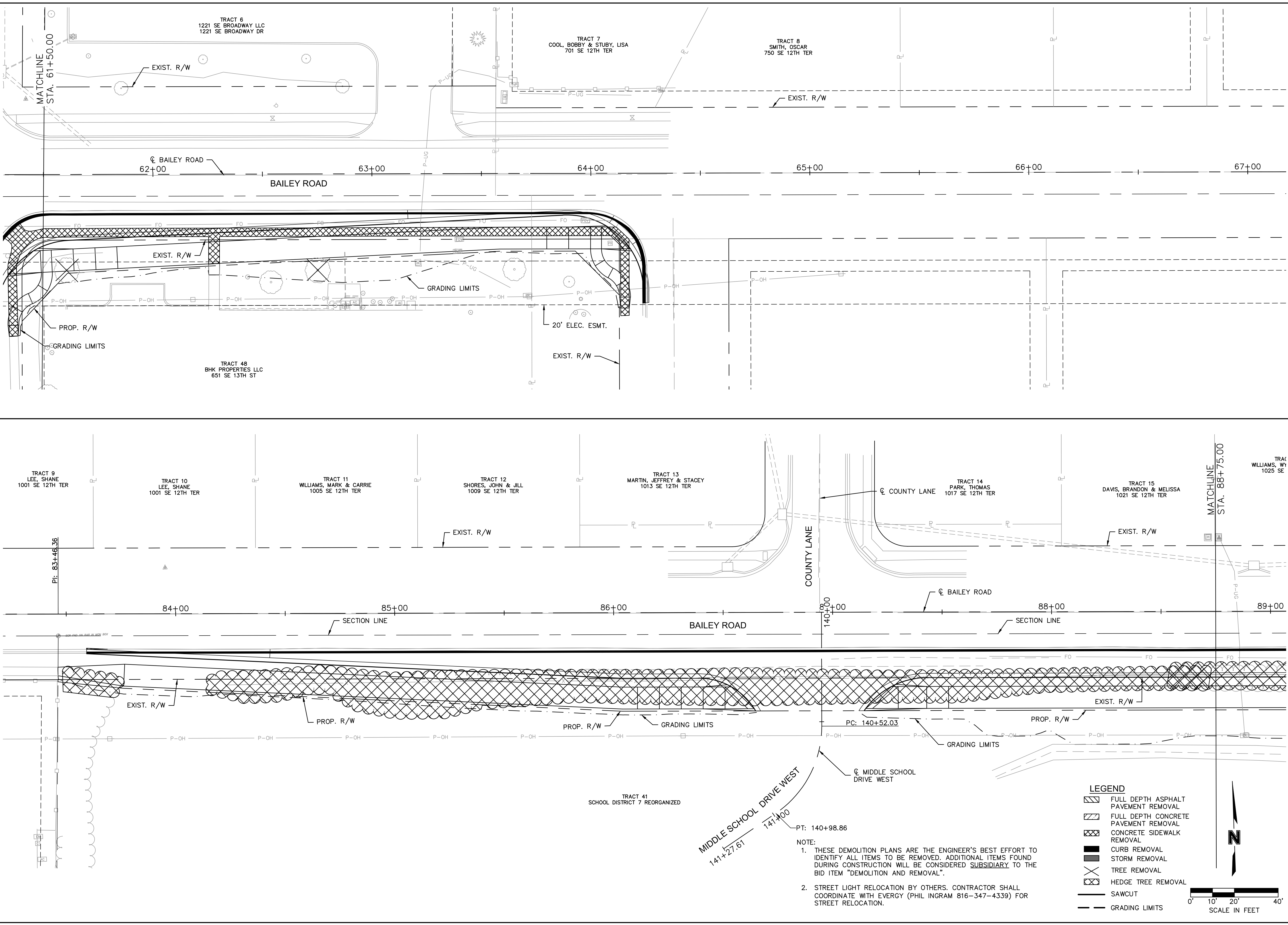
REVISIONS

DEMOLITION & REMOVALS
BAILEY ROAD

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

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12 OF 100

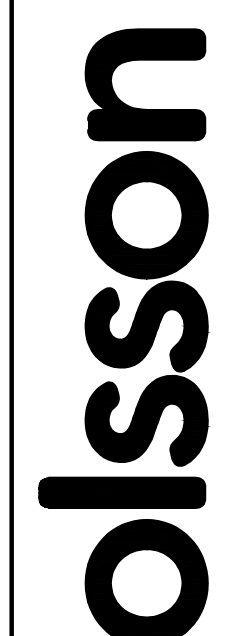
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LEGEND

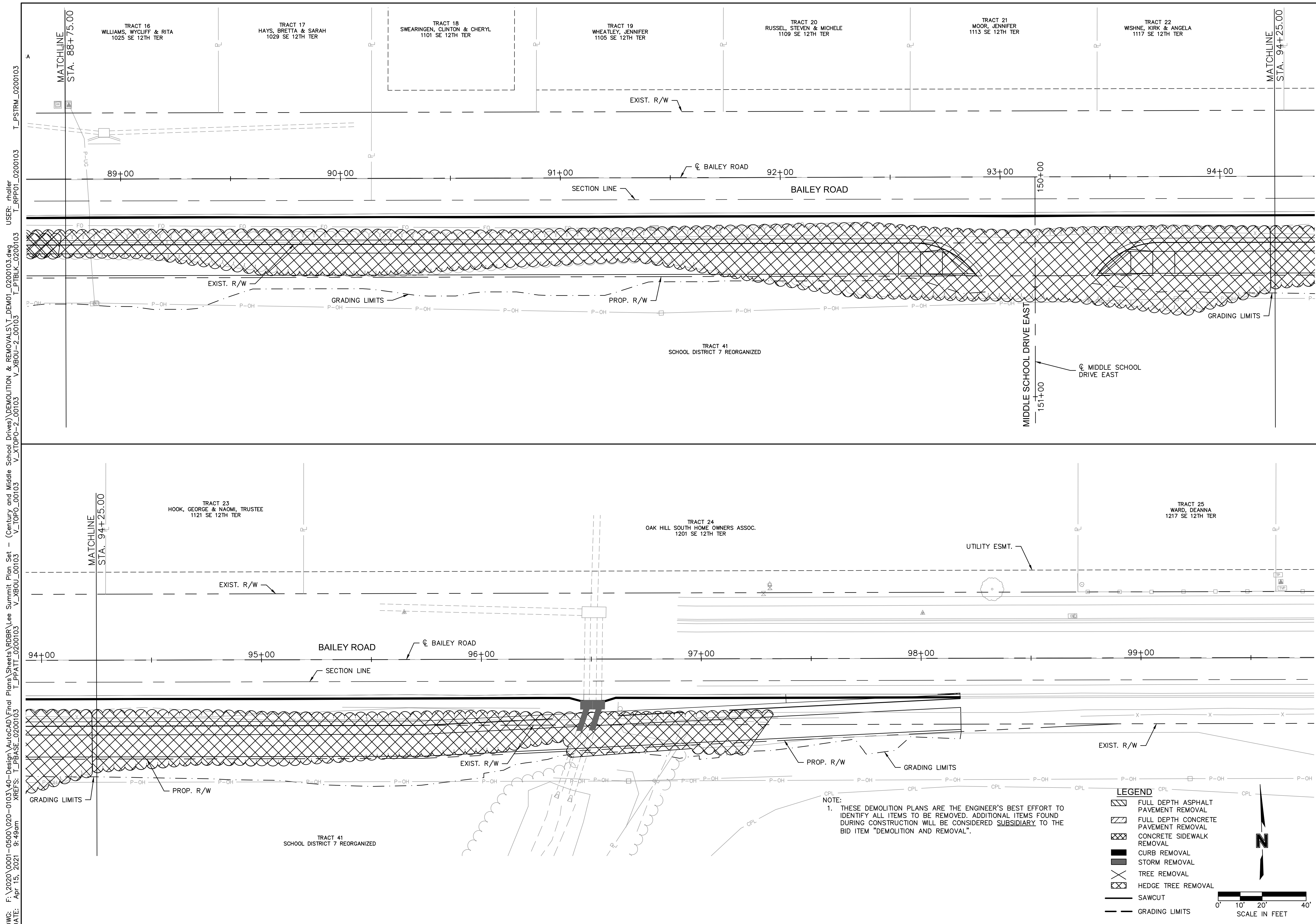
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[Solid Black]	CURB REMOVAL
[Solid Black]	STORM REMOVAL
[Cross-hatched]	TREE REMOVAL
[Hatched Pattern]	HEDGE TREE REMOVAL
[Dashed Line]	SAWCUT
[Dashed Line]	GRADING LIMITS

NOTE:
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FINAL PLANS NOT FOR CONSTRUCTION																	
RYAN B. FLEMING MO. NO. PE-2002003161																	
BY																	
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REV. NO.																	
REVISIONS																	
DEMOLITION & REMOVALS BAILEY ROAD	2021																
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS																	
LEE'S SUMMIT, MISSOURI																	
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USER: rhhall
I_PP01_0200103
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FINAL PLANS
NOT FOR CONSTRUCTION

RYAN B. FLEMING
MO. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION

BY

REVISIONS

DEMOLITION & REMOVALS
BAILEY ROAD

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

2021

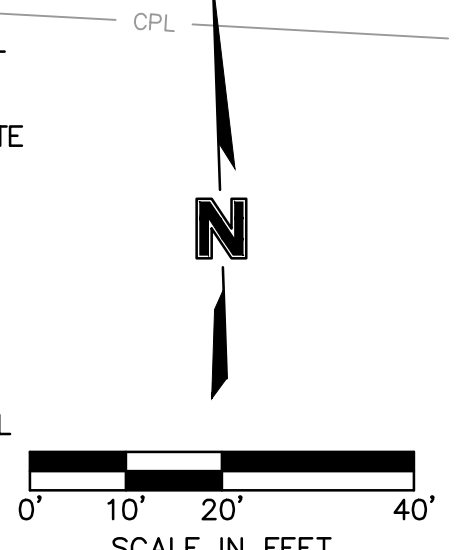
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DATE: 2021-02-01

LEE'S SUMMIT, MISSOURI

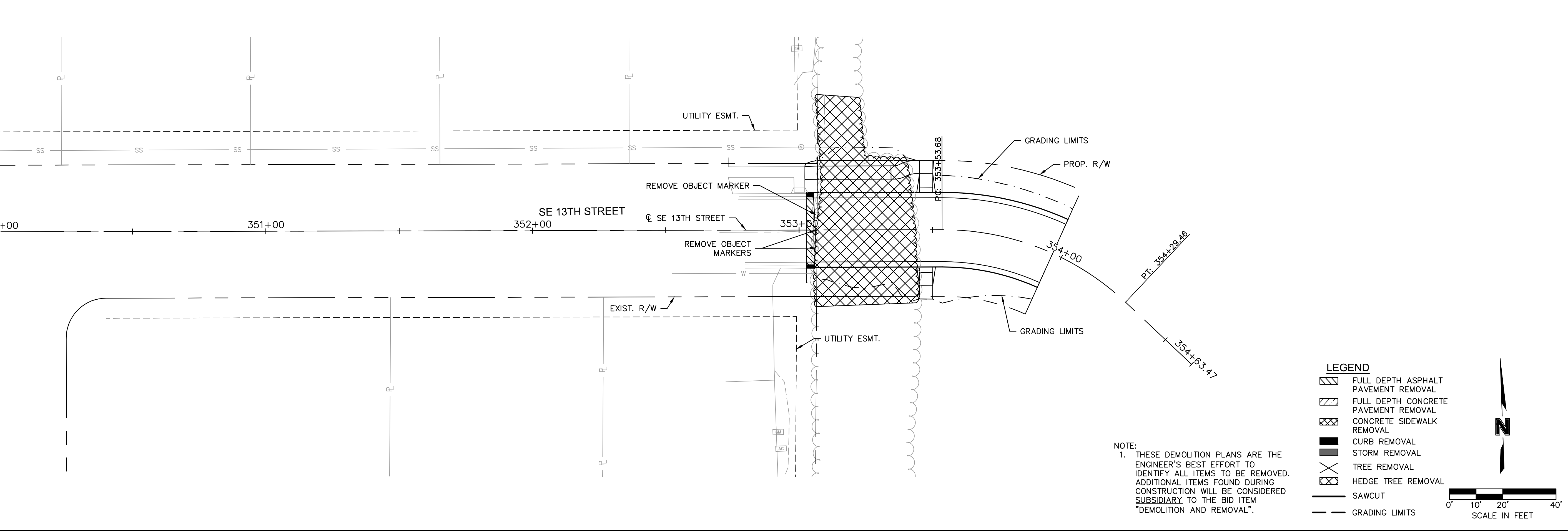
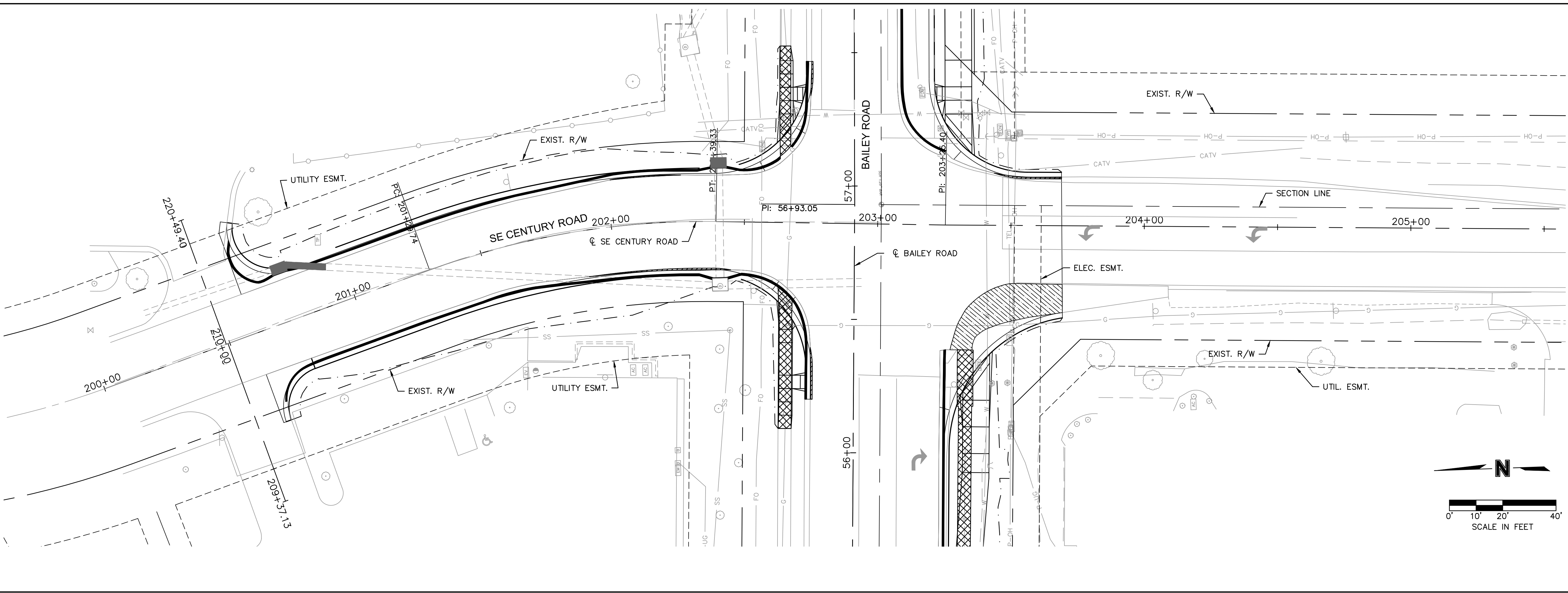
SHEET
14 OF 100

CPL NOTE:
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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

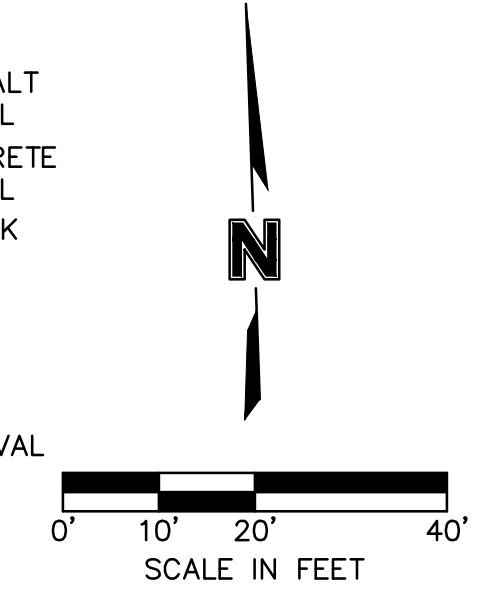
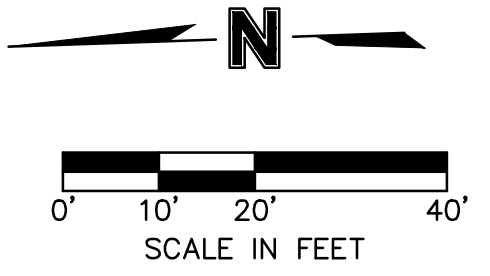


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 - TREE REMOVAL
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FINAL PLANS
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BY: RYAN B. FLEMING
 MO. NO. PE-2002003161

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION

DEMOLITION & REMOVALS
 CENTURY DRIVE & 13TH STREET

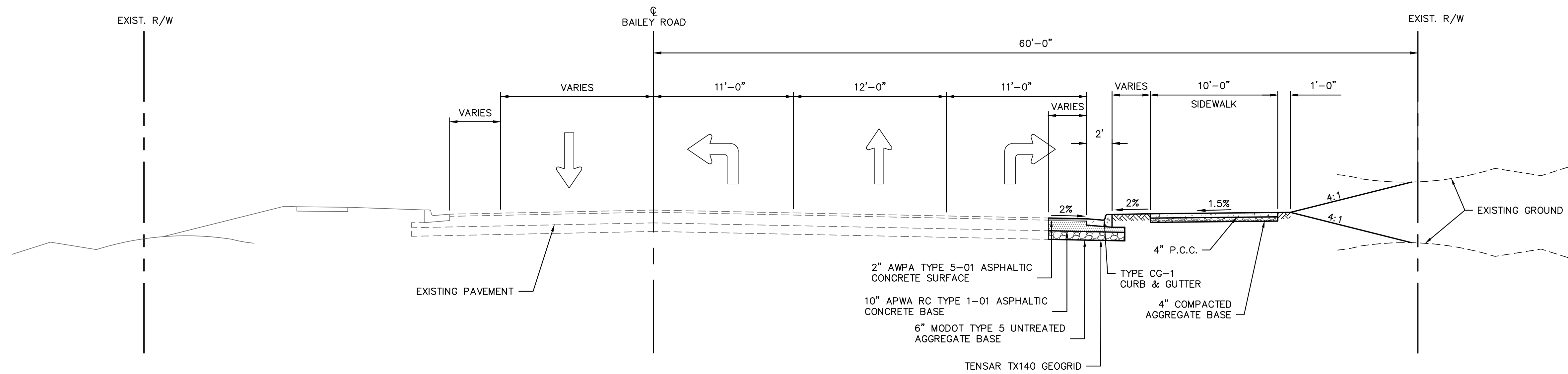
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 BAILEY ROAD PUBLIC IMPROVEMENTS

2021

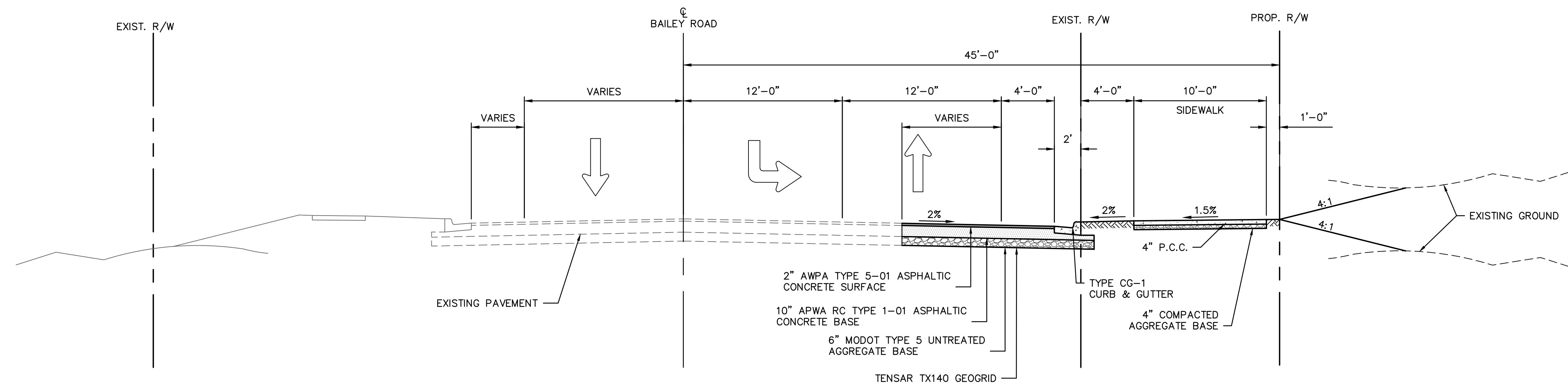
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 15 OF 100

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 USER: rthaller
 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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FINAL PLANS
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RYAN B. FLEMING
 MO. NO. PE-2002003161

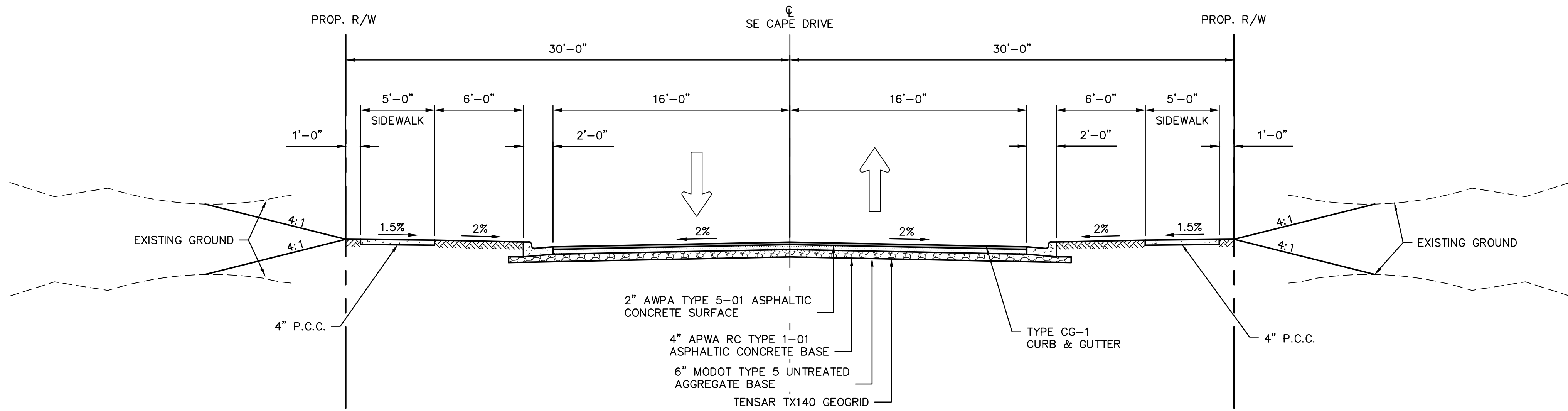
REV. NO.	DATE	REVISIONS DESCRIPTION	BY

REVISIONS

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

C.O.A. NO.: 001592
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**TYPICAL SECTION
SE CAPE DRIVE**
 NOT TO SCALE
 STA. 301+01.09 TO STA. 301+21.99

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FINAL PLANS
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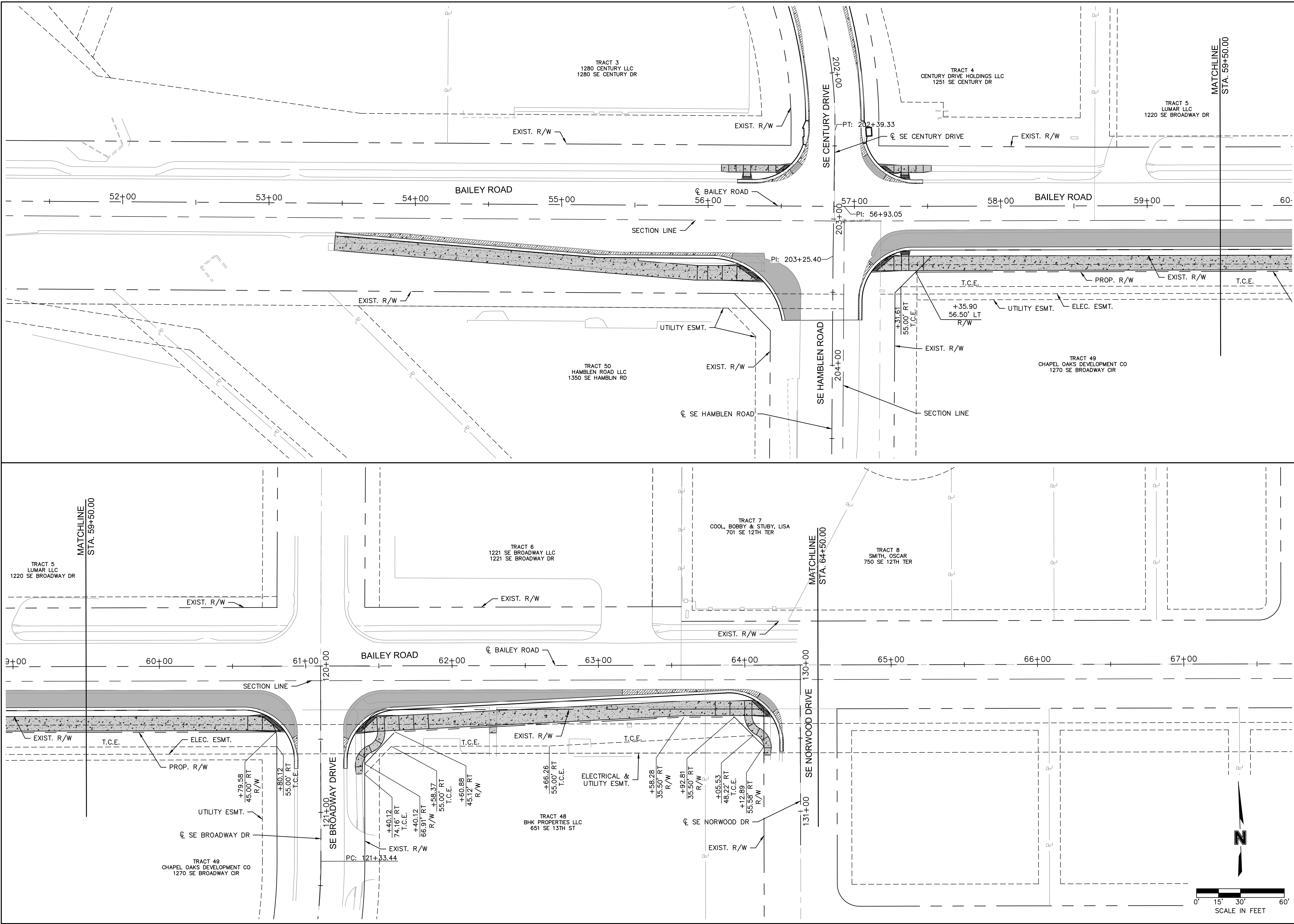
RYAN B. FLEMING
 MO. NO. PE-2002003161

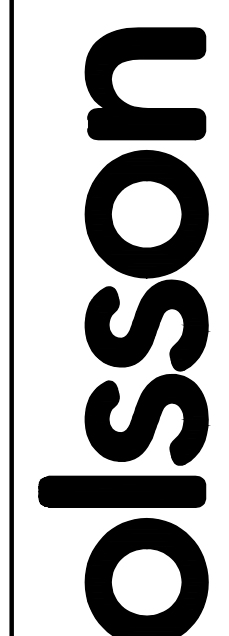
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TYPICAL SECTIONS	REVISIONS
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LEE'S SUMMIT, MISSOURI	2021

C.O.A. NO.: 001592
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FINAL PLANS NOT FOR CONSTRUCTION	
BY: RYAN B. FLEMING MO. NO. PE-2002003161	
REVISIONS DESCRIPTION	REVISIONS
DATE	DATE
REV. NO.	REV. NO.
RIGHT OF WAY PLANS BAILEY ROAD	2021
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	
C.O.A. NO.: 001592	DRAWN BY: RPH
CHECKED BY: RBE	APPROVED BY: RBE
QA/QC BY: XXX	PROJECT NO.: 020-0103
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USER: rhalter
V_XB0U_2_00103

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FINAL PLANS
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RYAN B. FLEMING
MO. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION

RIGHT OF WAY PLANS
BAILEY ROAD

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

2021

TRACT 9 LEE, SHANE 1001 SE 12TH TER

TRACT 10 LEE, SHANE 1001 SE 12TH TER

TRACT 11 WILLIAMS, MARK & CARRIE 1005 SE 12TH TER

TRACT 12 SHORES, JOHN & JILL 1009 SE 12TH TER

TRACT 13 MARTIN, JEFFREY & STACEY 1013 SE 12TH TER

TRACT 14 PARK, THOMAS 1017 SE 12TH TER

TRACT 15 DAVIS, BRANDON & MELISSA 1021 SE 12TH TER

TRACT 16 WILLIAMS, WYCLIFF & RITA 1025 SE 12TH TER

TRACT 17 HAYS, BRETTA & SARAH 1029 SE 12TH TER

TRACT 18 SWEARINGEN, CLINTON & CHERY 1101 SE 12TH TER

TRACT 19 WHEATLEY, JENNIFER 1105 SE 12TH TER

TRACT 20 RUSSEL, STEVEN & MICHELE 1109 SE 12TH TER

TRACT 21 MOOR, JENNIFER 1113 SE 12TH TER

TRACT 22 WISHNE, KIRK & ANGELA 1117 SE 12TH TER

TRACT 23 HOOK, GEORGE & NAOMI, TRUSTEE 1121 SE 12TH TER

TRACT 24 OAK HILL SOUTH HOME OWNERS ASSOC. 1201 SE 12TH TER

TRACT 25 WARD, DEANNA 1217 SE 12TH TER

TRACT 40 BAILEY FARMS INC. 1300 SE RANSON RD

TRACT 41 SCHOOL DISTRICT 7 REORGANIZED

MATCHLINE STA. 91+00.00

MATCHLINE STA. 91+00.00

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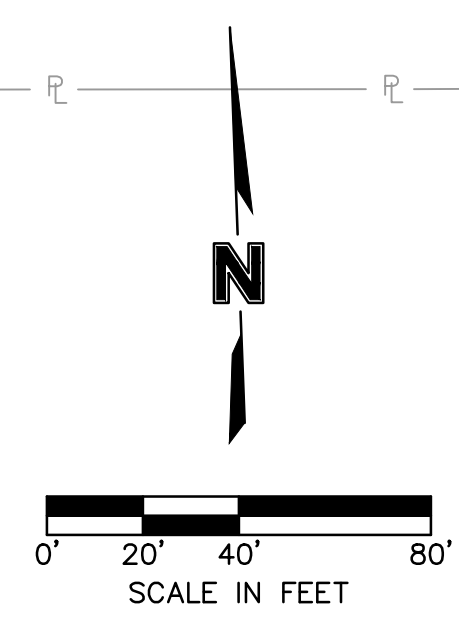
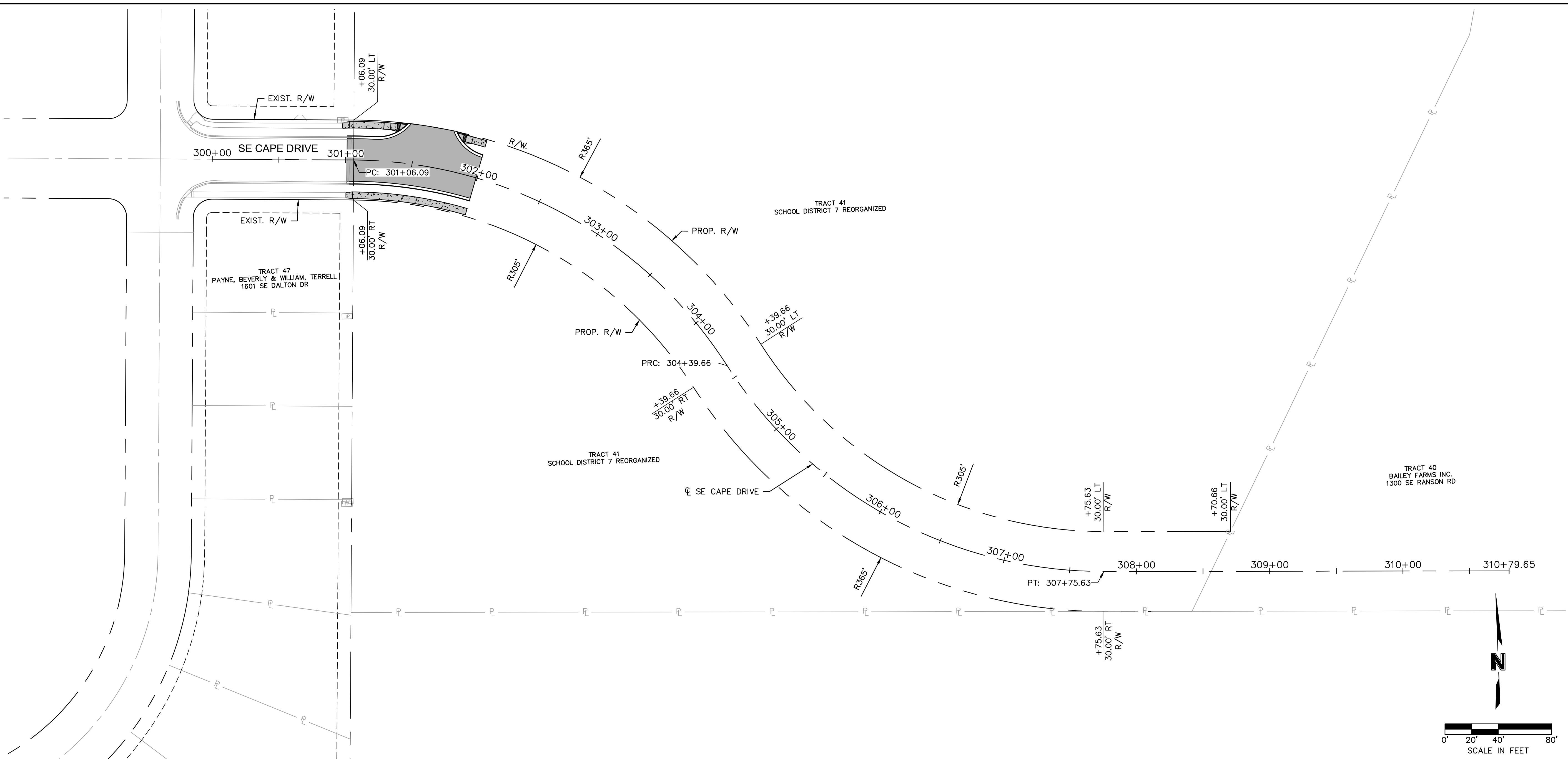
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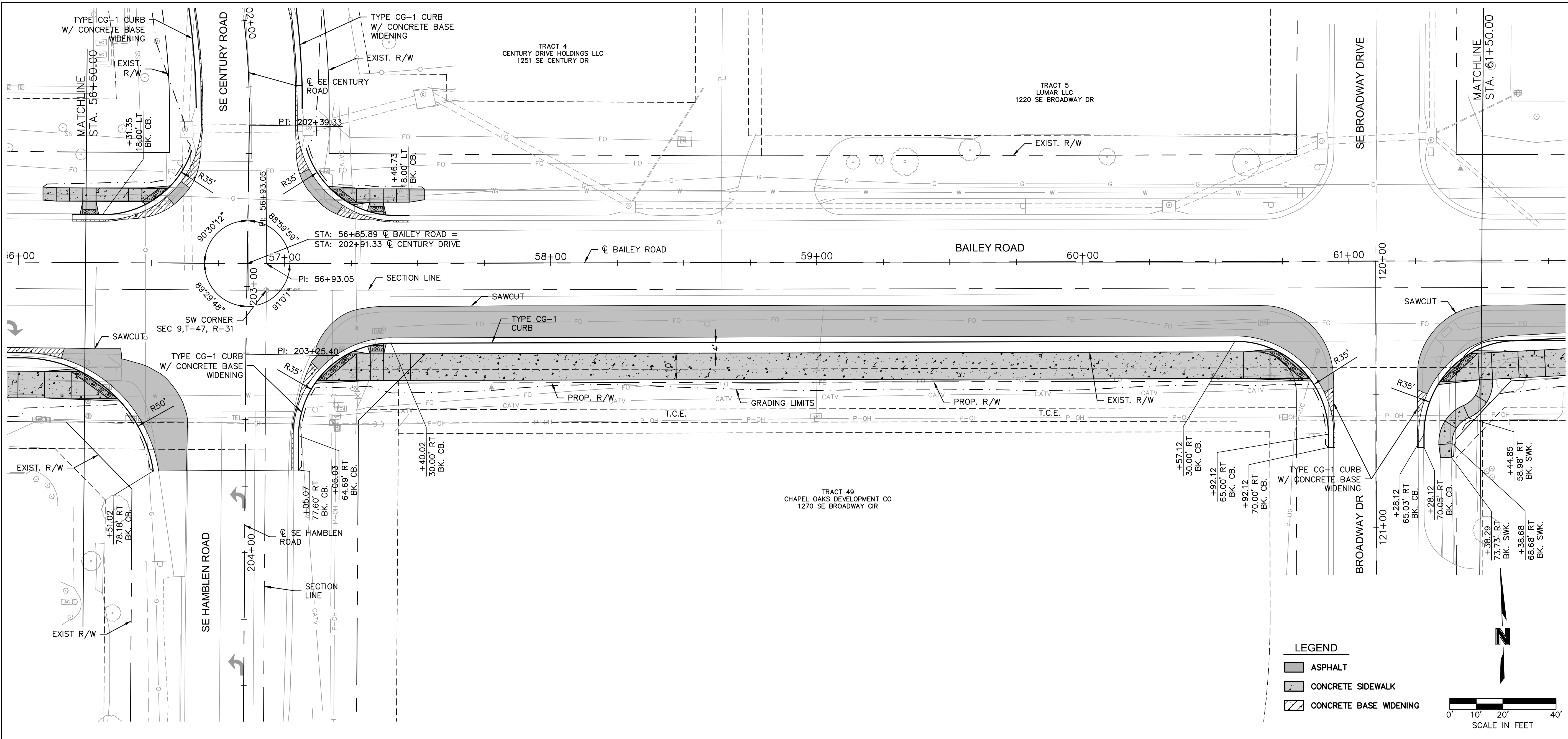
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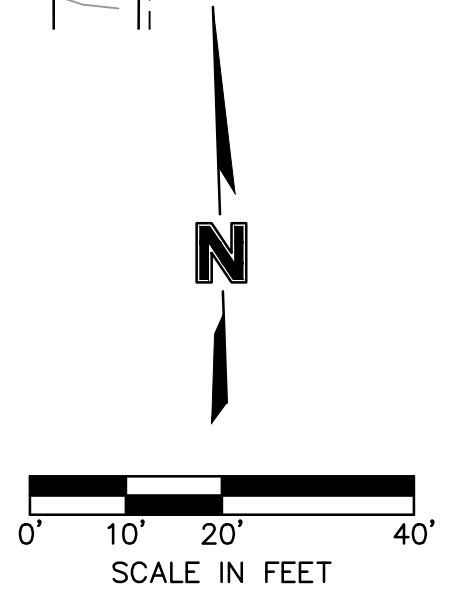
olsson		Olsson Engineering - MO State Certificate of Authority #01592 7301 West 133rd Street, Suite 200 TEL: 913.381.1170 Overland Park, KS 66213-4760 FAX: 913.381.1174 www.ollson.com	
FINAL PLANS NOT FOR CONSTRUCTION		RYAN B. FLEMING MO. NO. PE-2002003161	
BY		REVISIONS DESCRIPTION	
REV. NO.	DATE		
			REVISIONS
RIGHT OF WAY PLANS BAILEY ROAD		2021	
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS		2021	
LEE'S SUMMIT, MISSOURI		2021	
C.O.A. NO.: 001592		DRAWN BY: RPH	
CHECKED BY: RBE		APPROVED BY: RBE	
QA/QC BY: XXX		PROJECT NO.: 020-0103	
DWG NO.: T_ROW01_0200103		DATE: 2021-02-01	
SHEET 23 OF 100			

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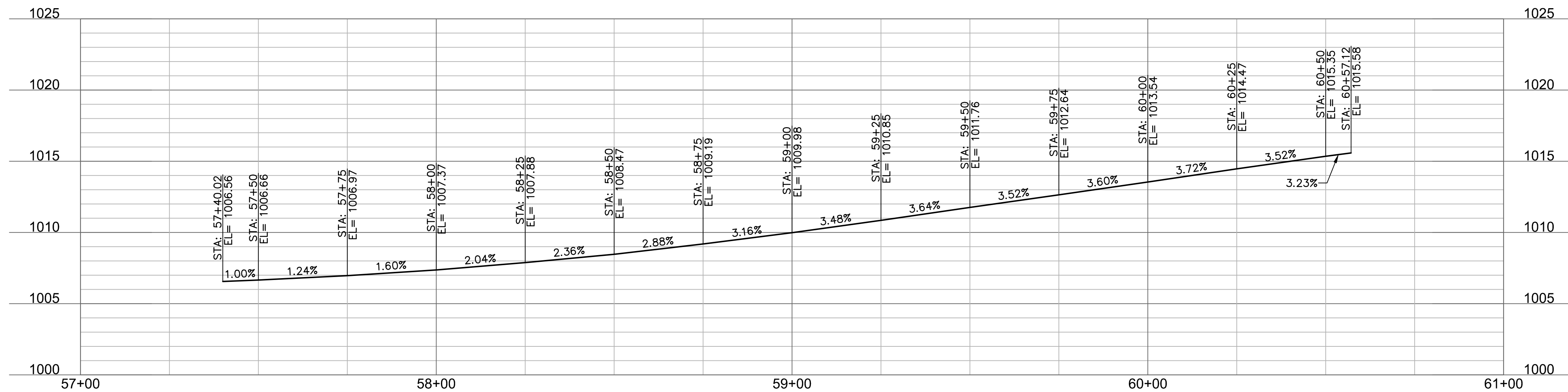


LEGEND

- ASPHALT
- CONCRETE SIDEWALK
- CONCRETE BASE WIDENING



BAILEY ROAD RIGHT EDGE OF PAVEMENT



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NOT FOR CONSTRUCTION

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

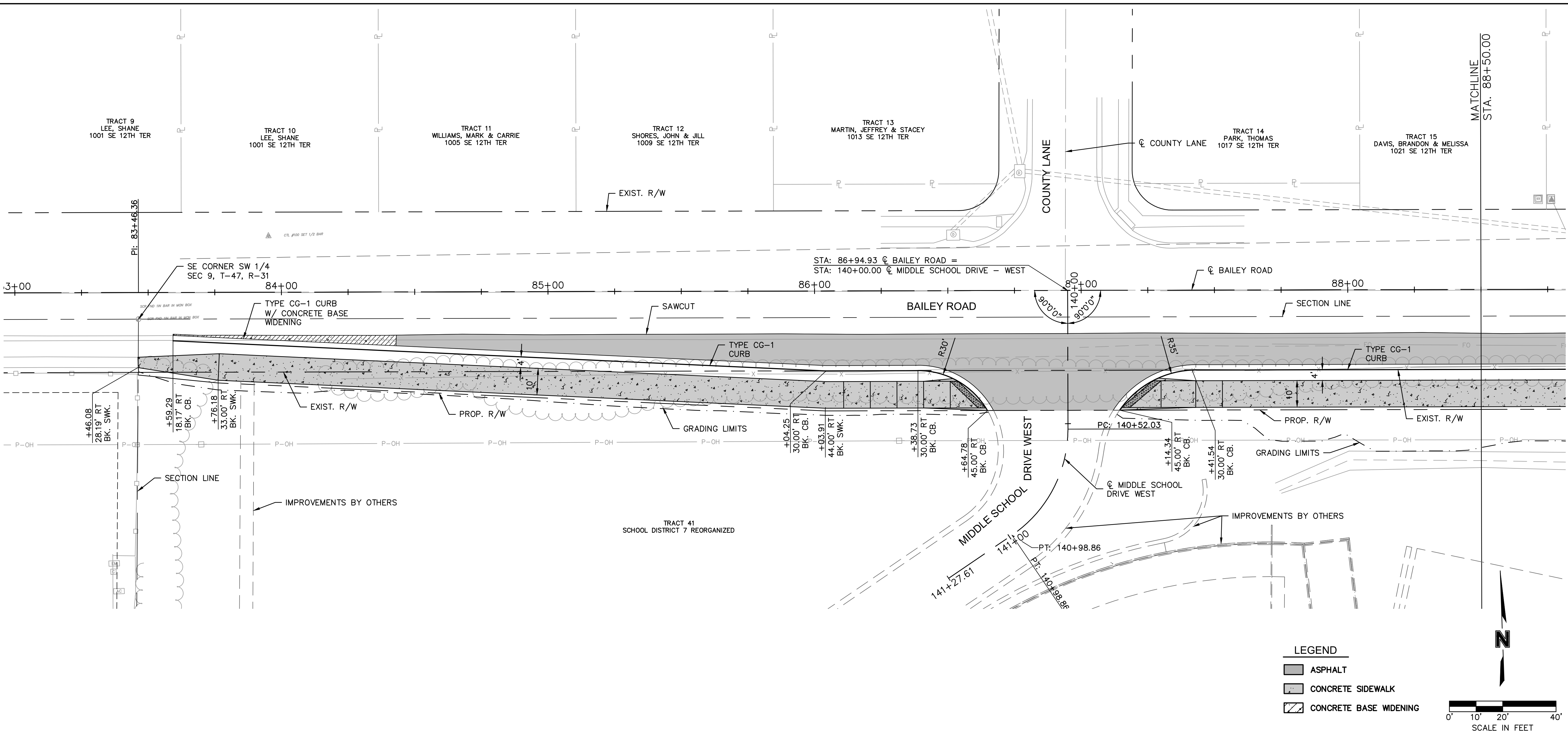
RYAN B. FLEMING
MO. NO. PE-2002003161

PLAN & EDGE OF PAVEMENT PROFILE BAILEY ROAD	REVISIONS	DATE
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS		2021
LEE'S SUMMIT, MISSOURI		

C.O.A. NO.: 001592
 DRAWN BY: RPH
 CHECKED BY: RBE
 APPROVED BY: RBE
 QA/QC BY: XXX
 PROJECT NO.: 020-0103
 DWG NO.: T_RPP02_0200103
 DATE: 2021-02-01

SHEET 25 OF 100

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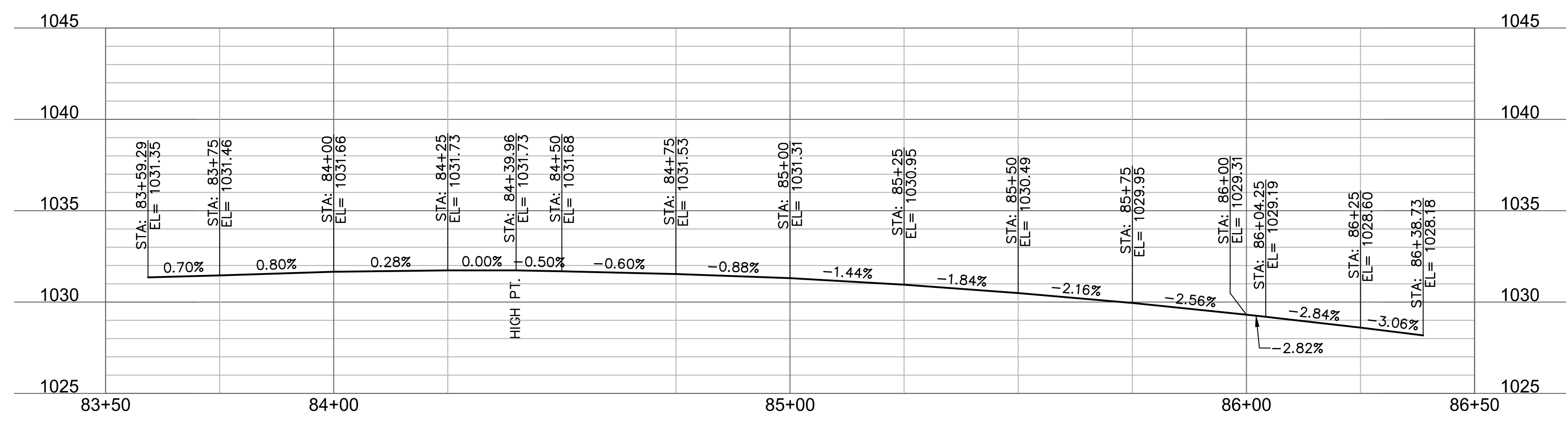


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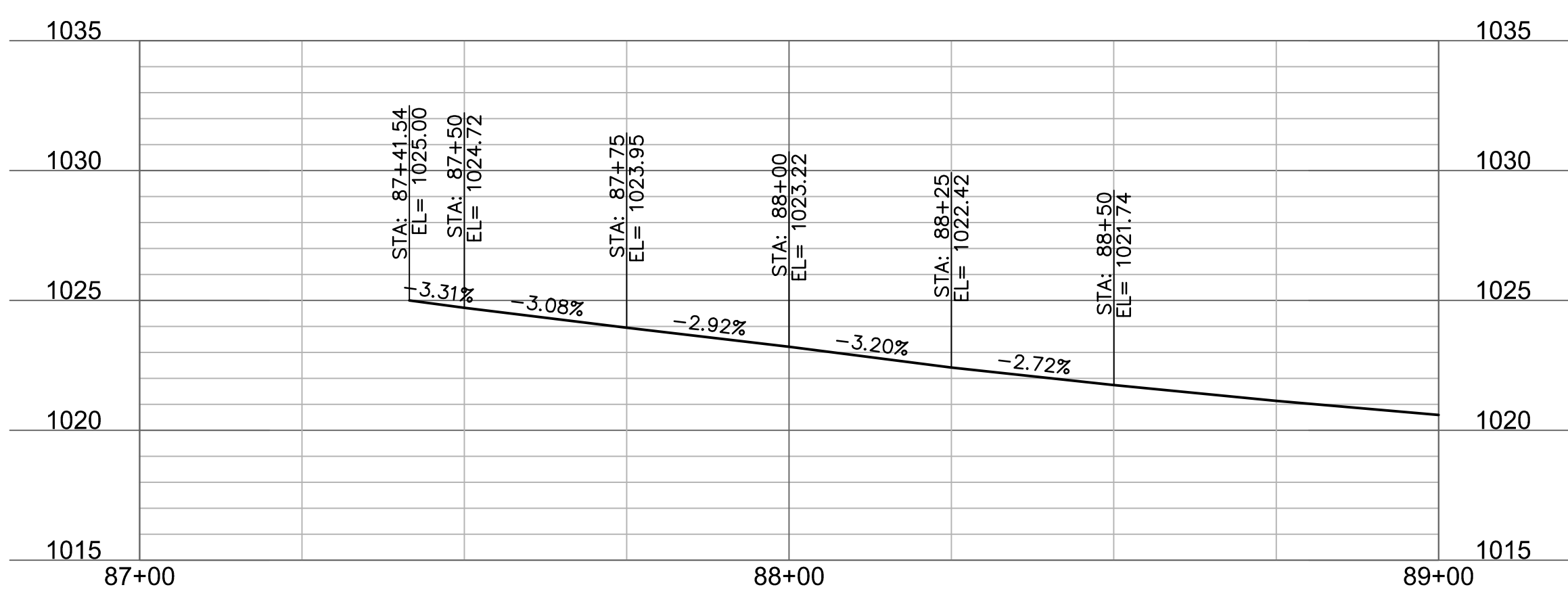
- ASPHALT
- CONCRETE SIDEWALK
- CONCRETE BASE WIDENING

SCALE IN FEET

BAILEY ROAD RIGHT EDGE OF PAVEMENT



BAILEY ROAD RIGHT EDGE OF PAVEMENT



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RYAN B. FLEMING
MO. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION

PLAN & EDGE OF PAVEMENT PROFILE
BAILEY ROAD

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

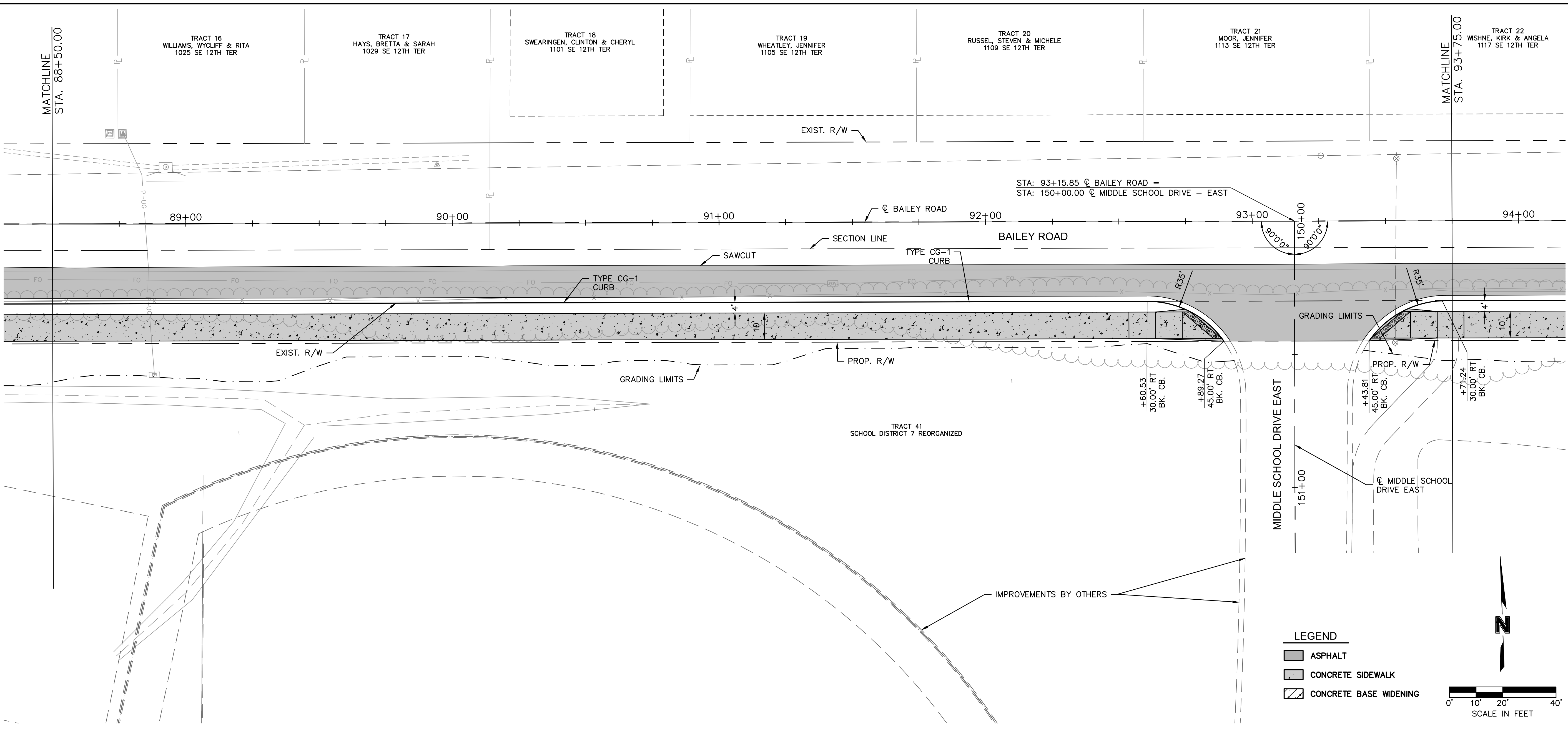
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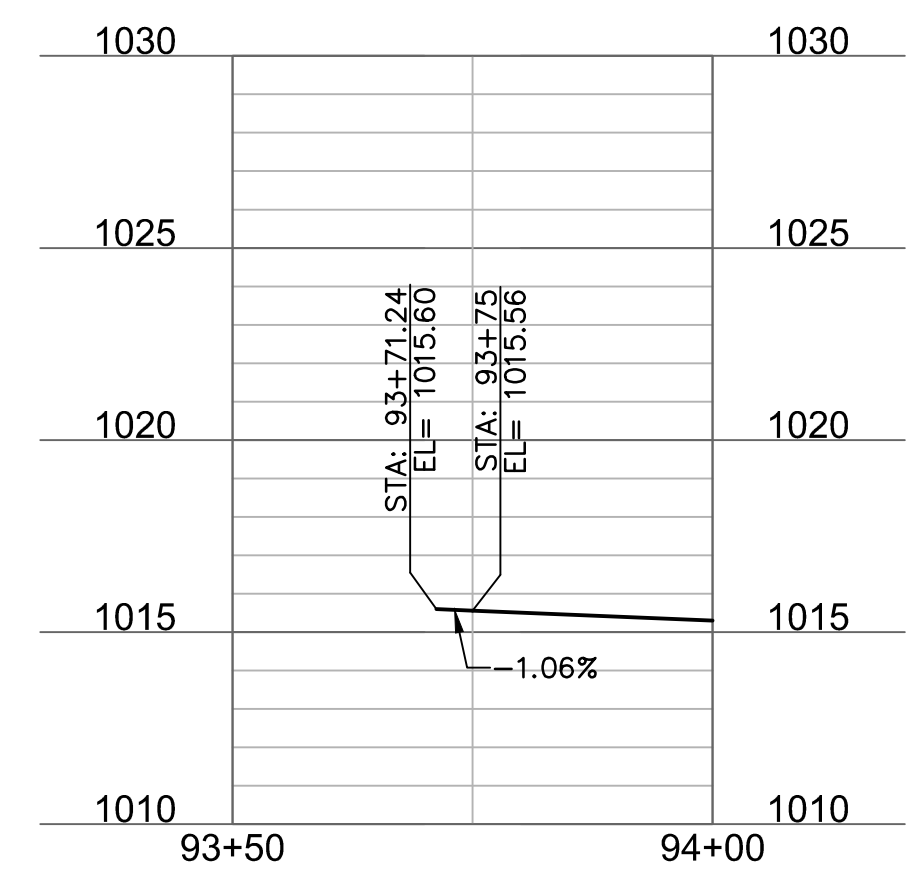
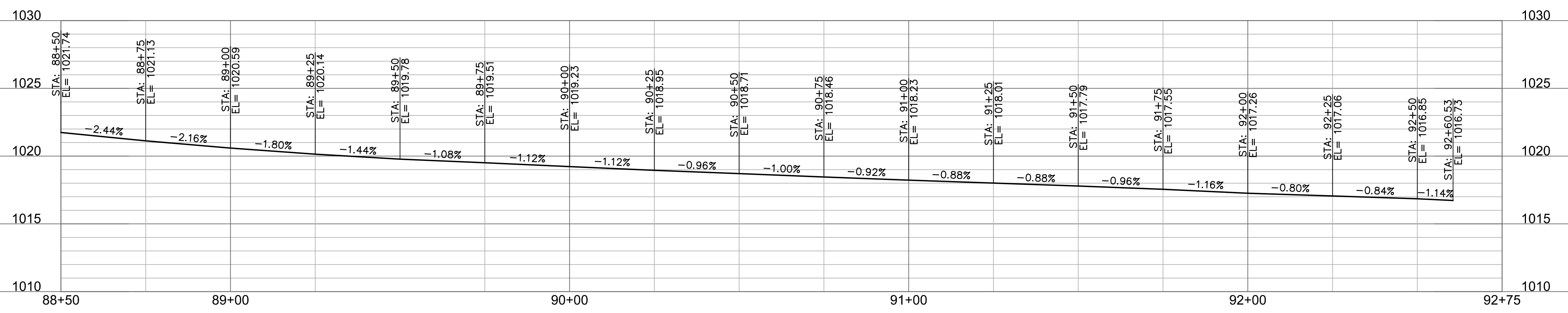
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SHEET
27 OF 100

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BAILEY ROAD RIGHT EDGE OF PAVEMENT



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BY: _____

REVISIONS DESCRIPTION:

RYAN B. FLEMING
 MO. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION

PLAN & EDGE OF PAVEMENT PROFILE
 BAILEY ROAD

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

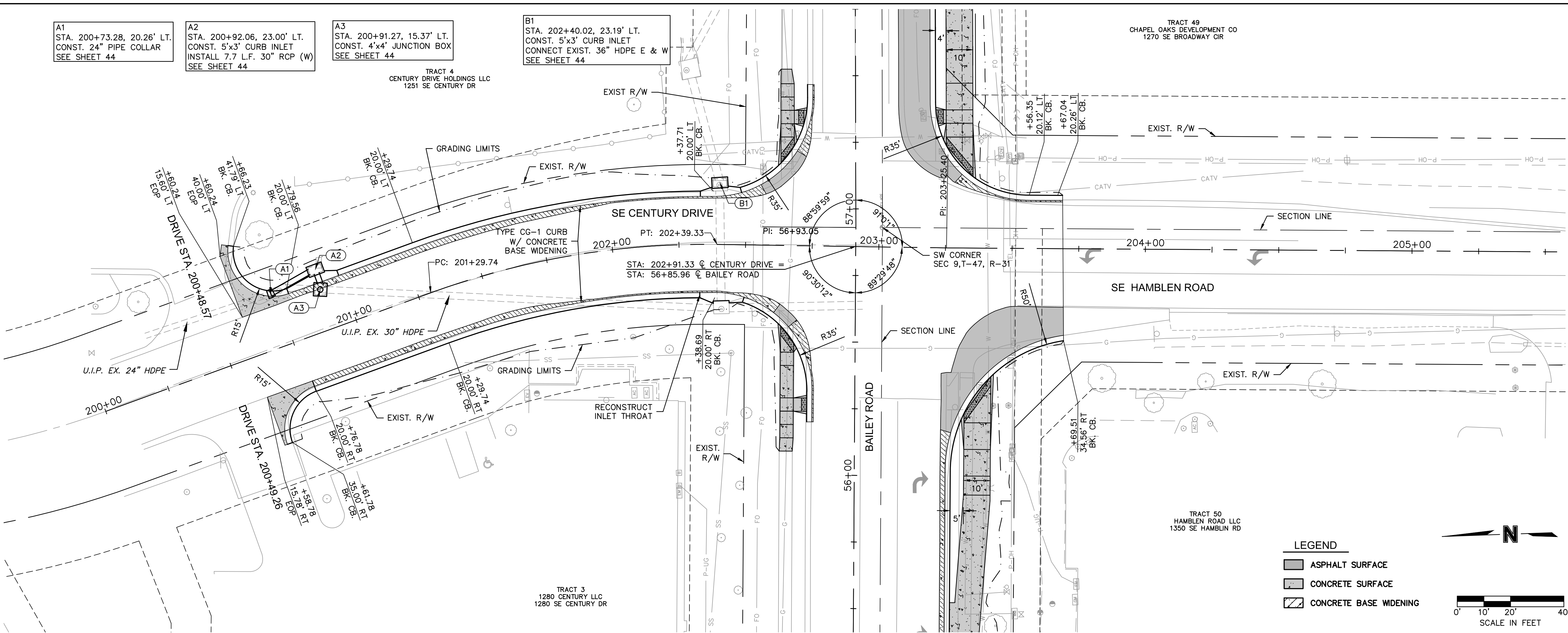
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 CHECKED BY: RBE
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 DWG NO.: T_RPP05_0200103
 DATE: 2021-02-01

SHEET
 28 OF 100

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- A1 STA. 200+73.28, 20.26' LT. CONST. 24" PIPE COLLAR SEE SHEET 44
- A2 STA. 200+92.06, 23.00' LT. CONST. 5"x3" CURB INLET INSTALL 7.7 L.F. 30" RCP (W) SEE SHEET 44
- A3 STA. 200+91.27, 15.37' LT. CONST. 4"x4" JUNCTION BOX SEE SHEET 44
- B1 STA. 202+40.02, 23.19' LT. CONST. 5"x3" CURB INLET CONNECT EXIST. 36" HDPE E & W SEE SHEET 44



LEGEND

- ASPHALT SURFACE
- CONCRETE SURFACE
- CONCRETE BASE WIDENING

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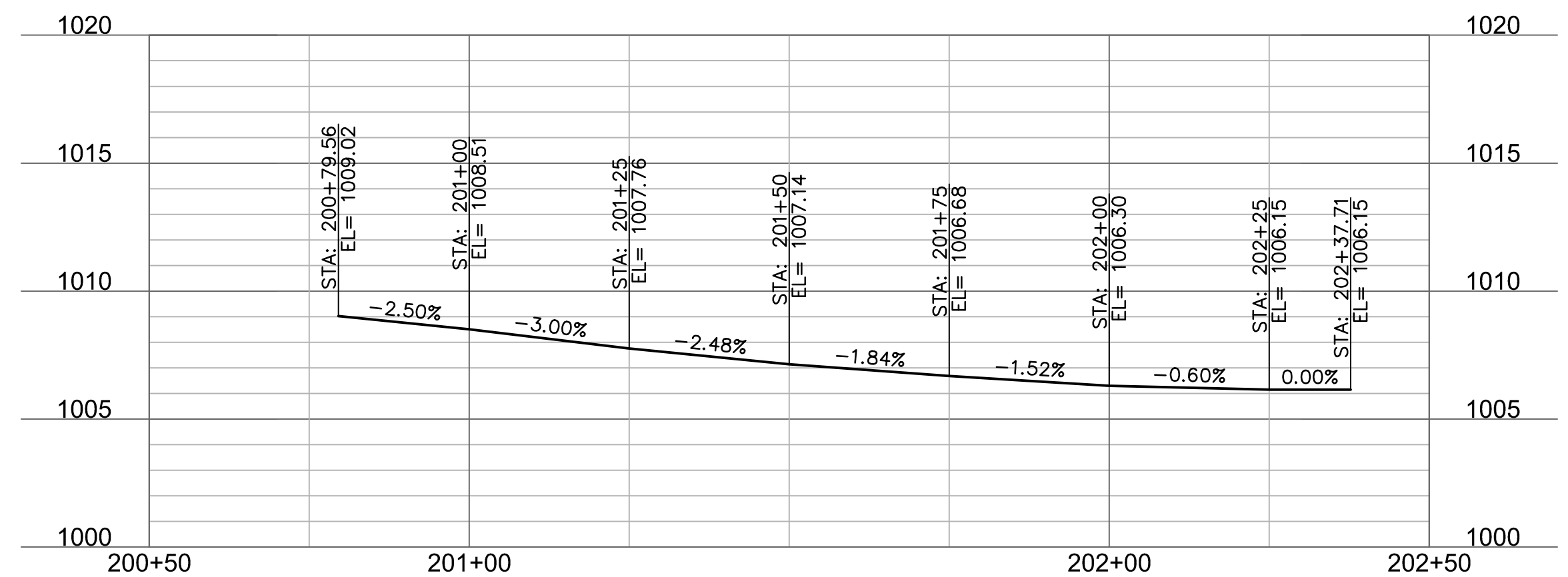
FINAL PLANS
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BY: RYAN B. FLEMING
 MO. NO. PE-2002003161

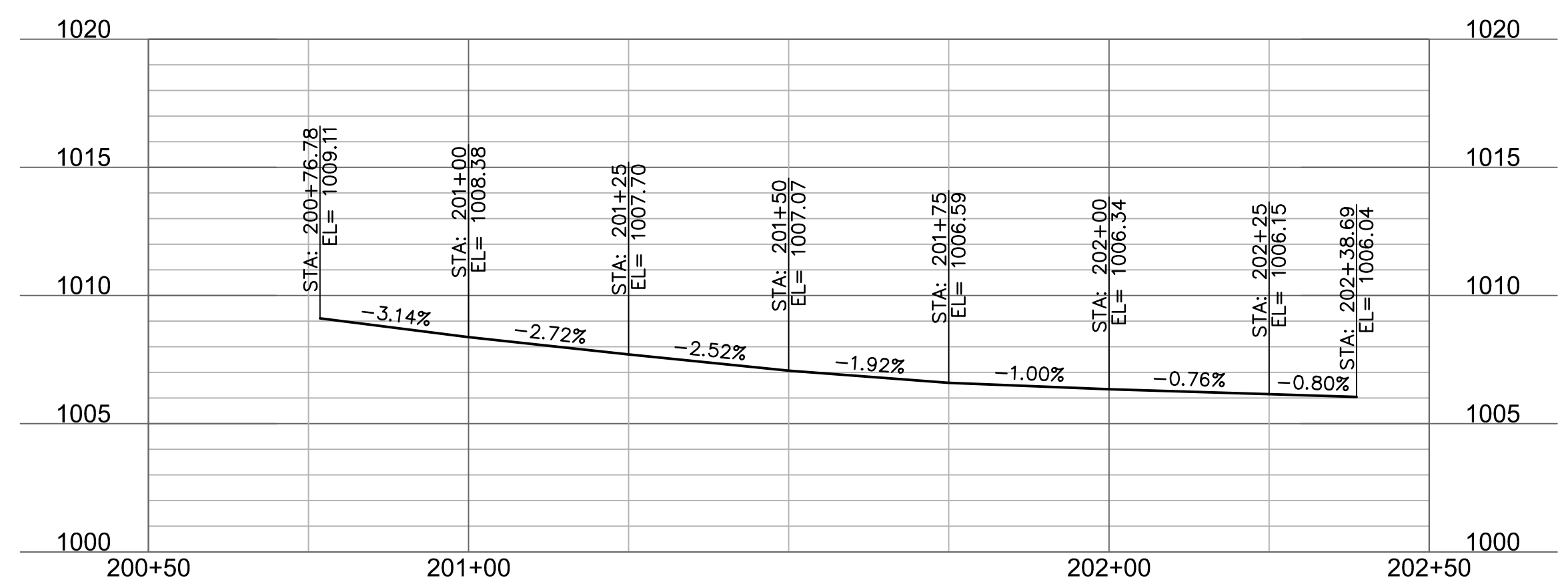
REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

SE CENTURY DRIVE LEFT EDGE OF PAVEMENT



SE CENTURY DRIVE RIGHT EDGE OF PAVEMENT



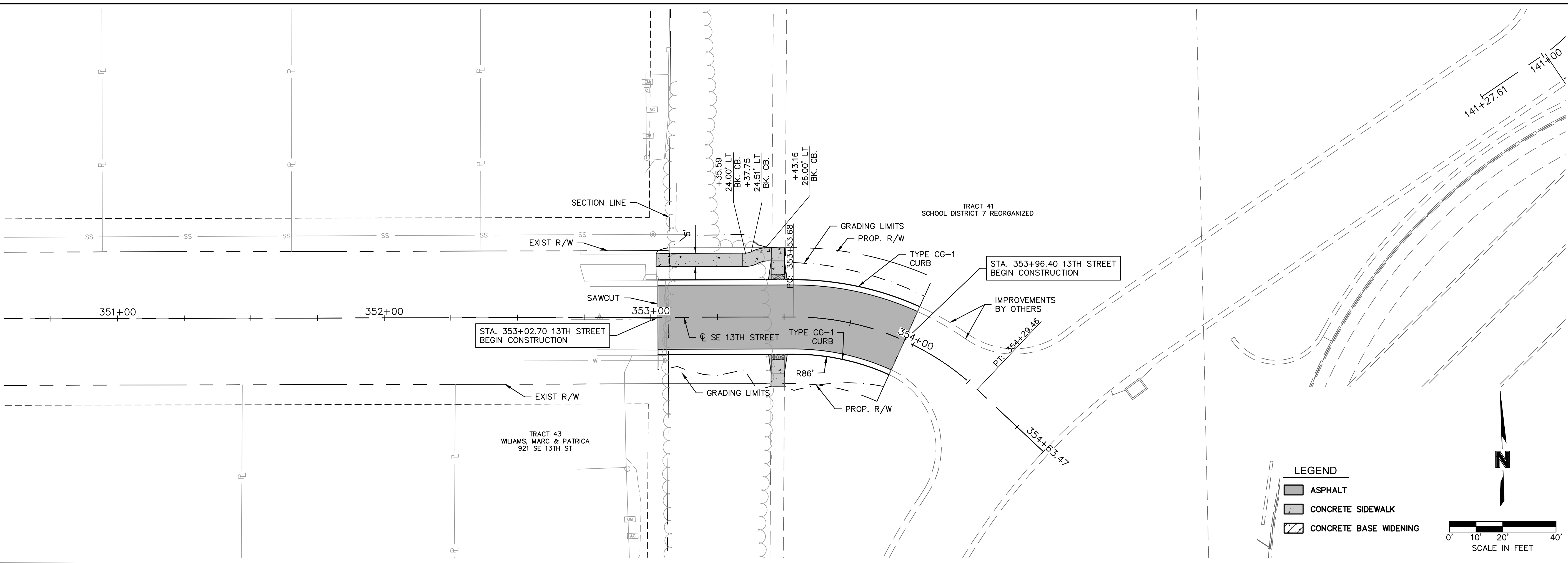
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LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

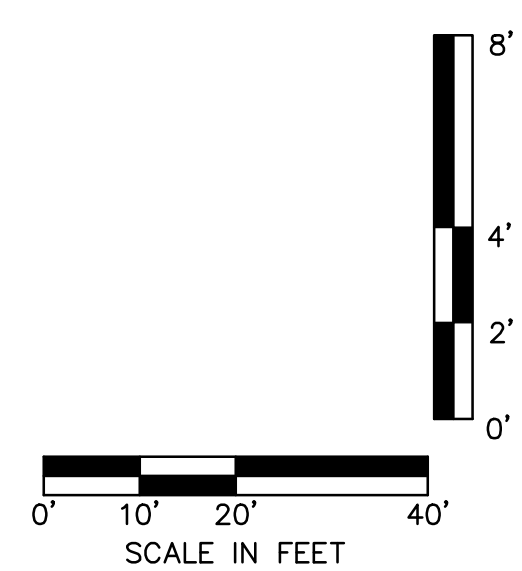
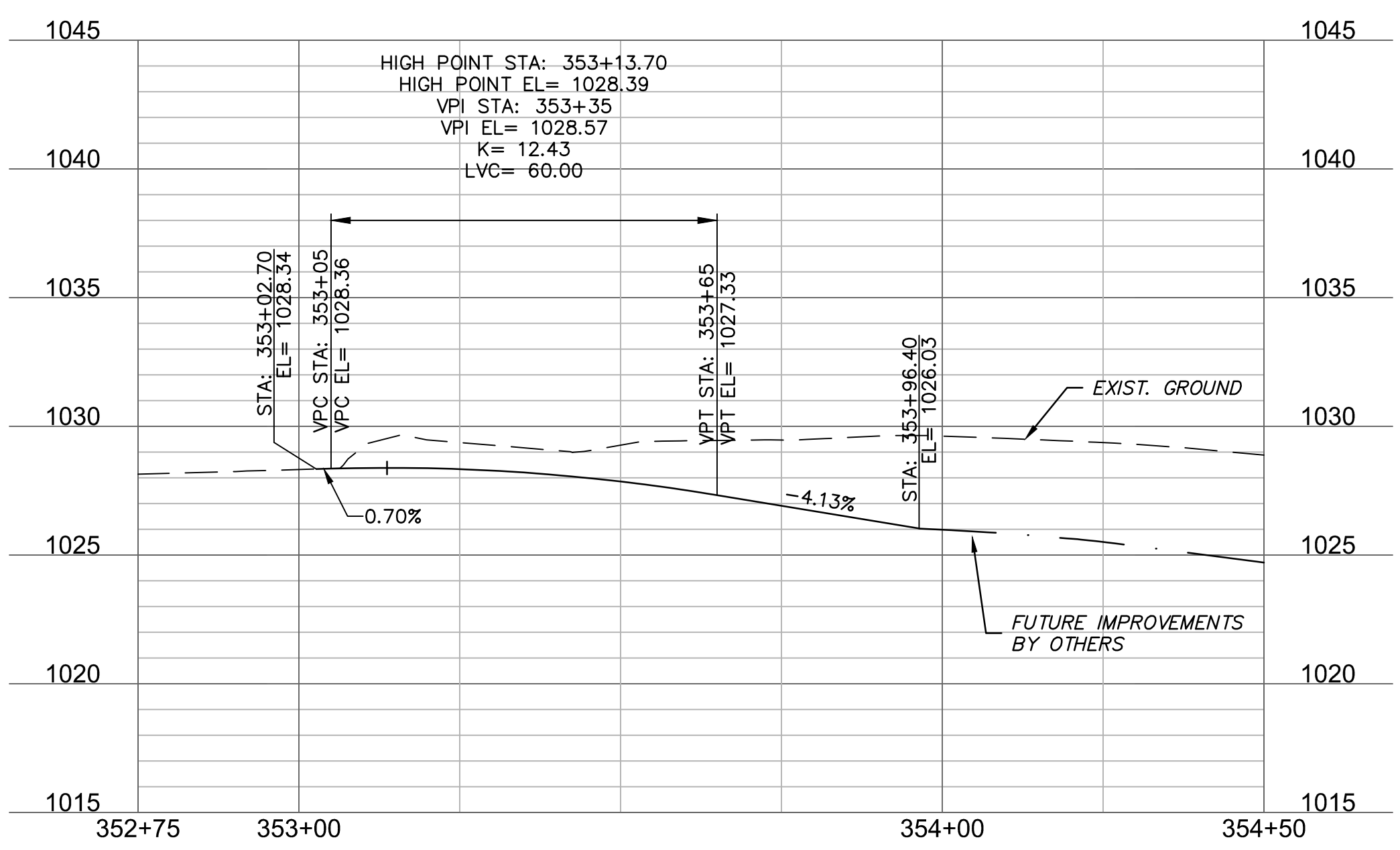
LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: RPH
 CHECKED BY: RBE
 APPROVED BY: RBE
 QA/QC BY: XXX
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 DWG NO.: T_RPP10_0200103
 DATE: 2021-02-01

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SE 13TH STREET



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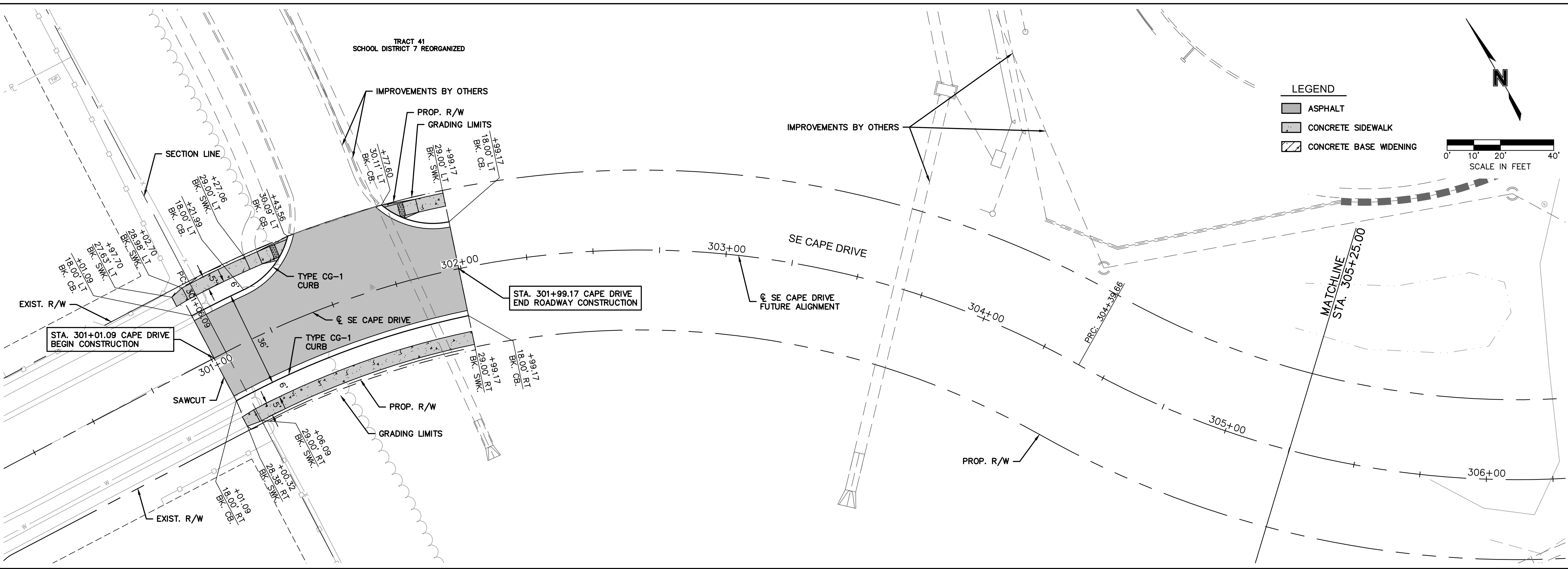
FINAL PLANS
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 MO. NO. PE-2002003161

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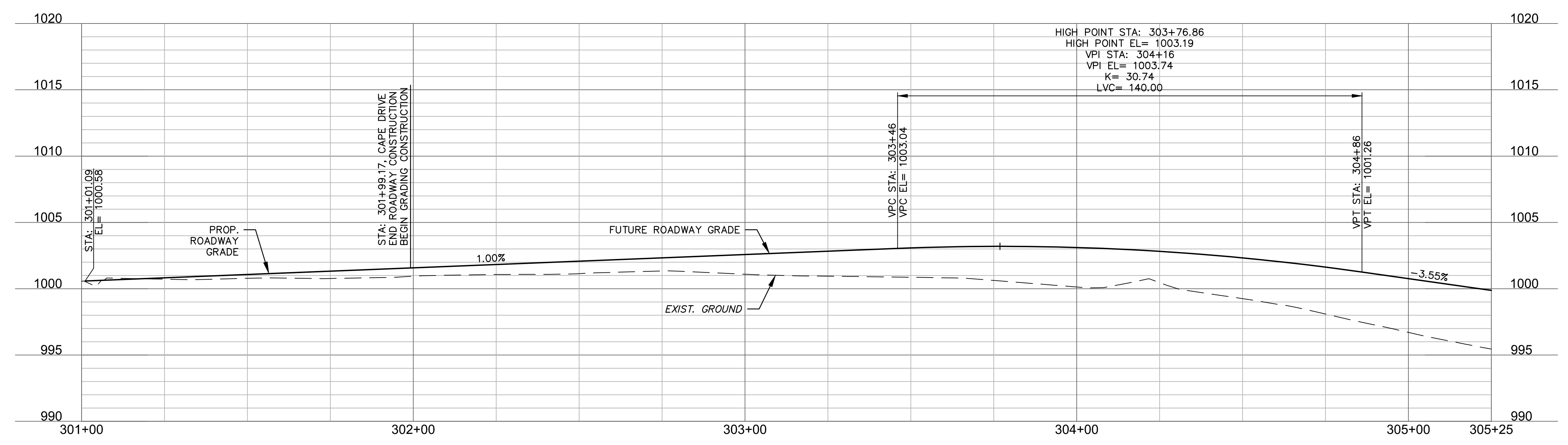
SE 13TH STREET PLAN
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI
 2021

C.O.A. NO.: 001592
 DRAWN BY: RPH
 CHECKED BY: RBE
 APPROVED BY: RBE
 QA/QC BY: XXX
 PROJECT NO.: 020-0103
 DWG NO.: T_RPP07_0200103
 DATE: 2021-02-01

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SE CAPE DRIVE



LEGEND

- ASPHALT
- CONCRETE SIDEWALK
- CONCRETE BASE WIDENING

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REV. NO.	DATE	REVISIONS DESCRIPTION

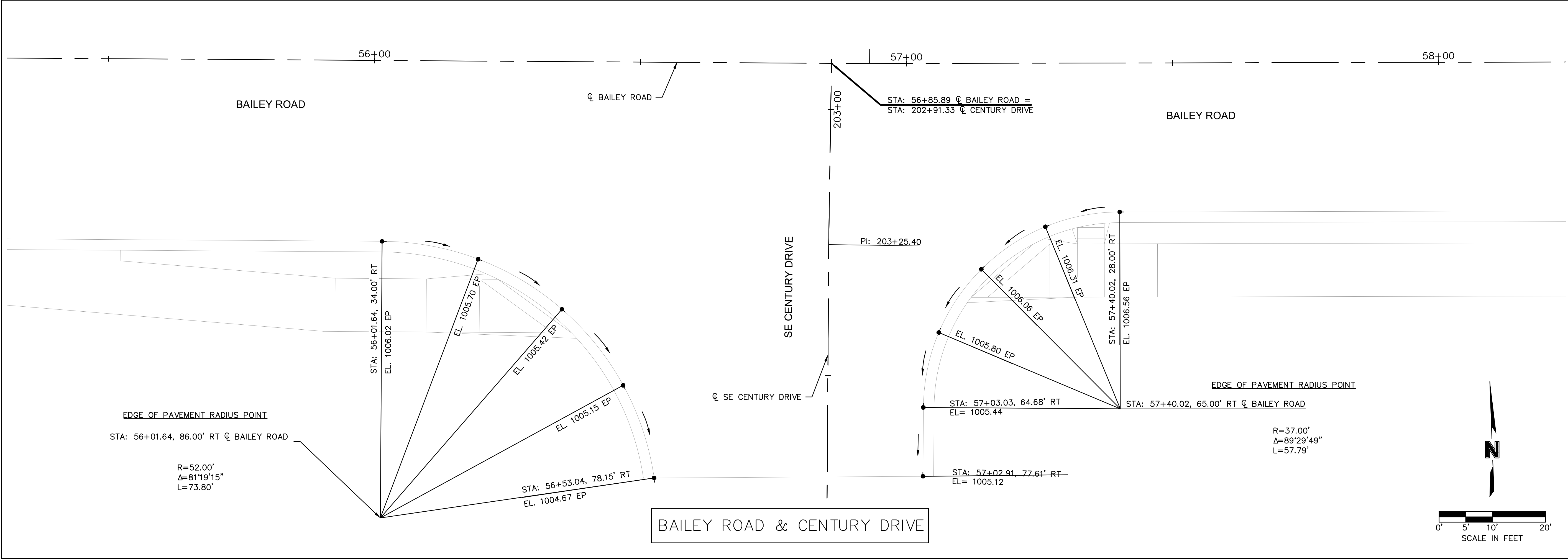
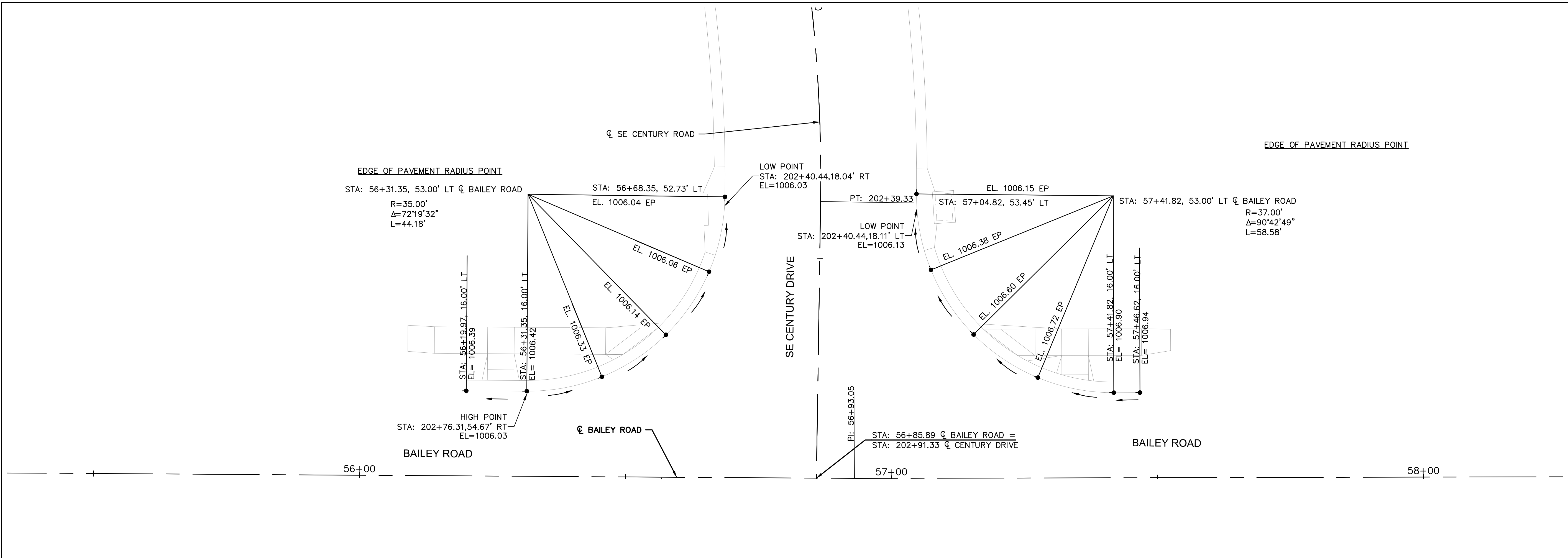
SE CAPE DRIVE
 PLAN & PROFILE

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

LEE'S SUMMIT, MISSOURI

2021

DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\RD\BR\Lee Summit Plan Set - (Century and Middle School Drives)\INTERSECTION LAYOUTS\T_INT01_0200103.dwg
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REV. NO.	DATE	REVISIONS DESCRIPTION

INTERSECTION LAYOUTS

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

2021

C.O.A. NO.: 001592

DRAWN BY: RPH

CHECKED BY: RBE

APPROVED BY: RBE

QA/QC BY: XXX

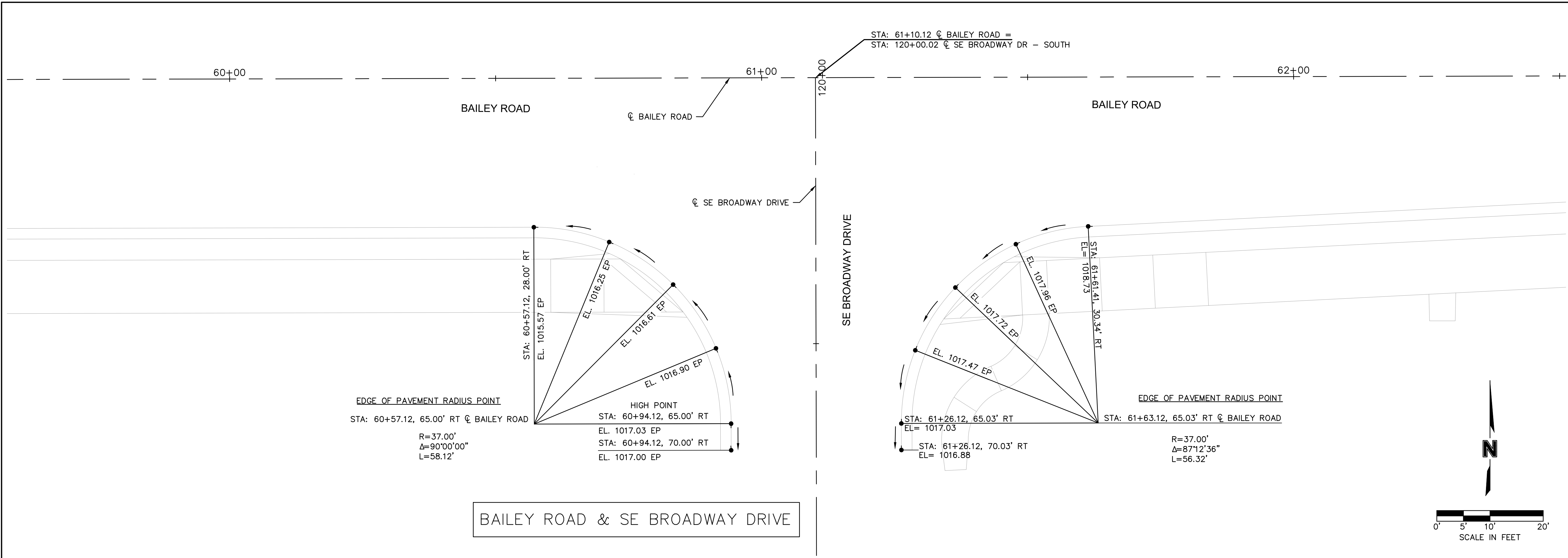
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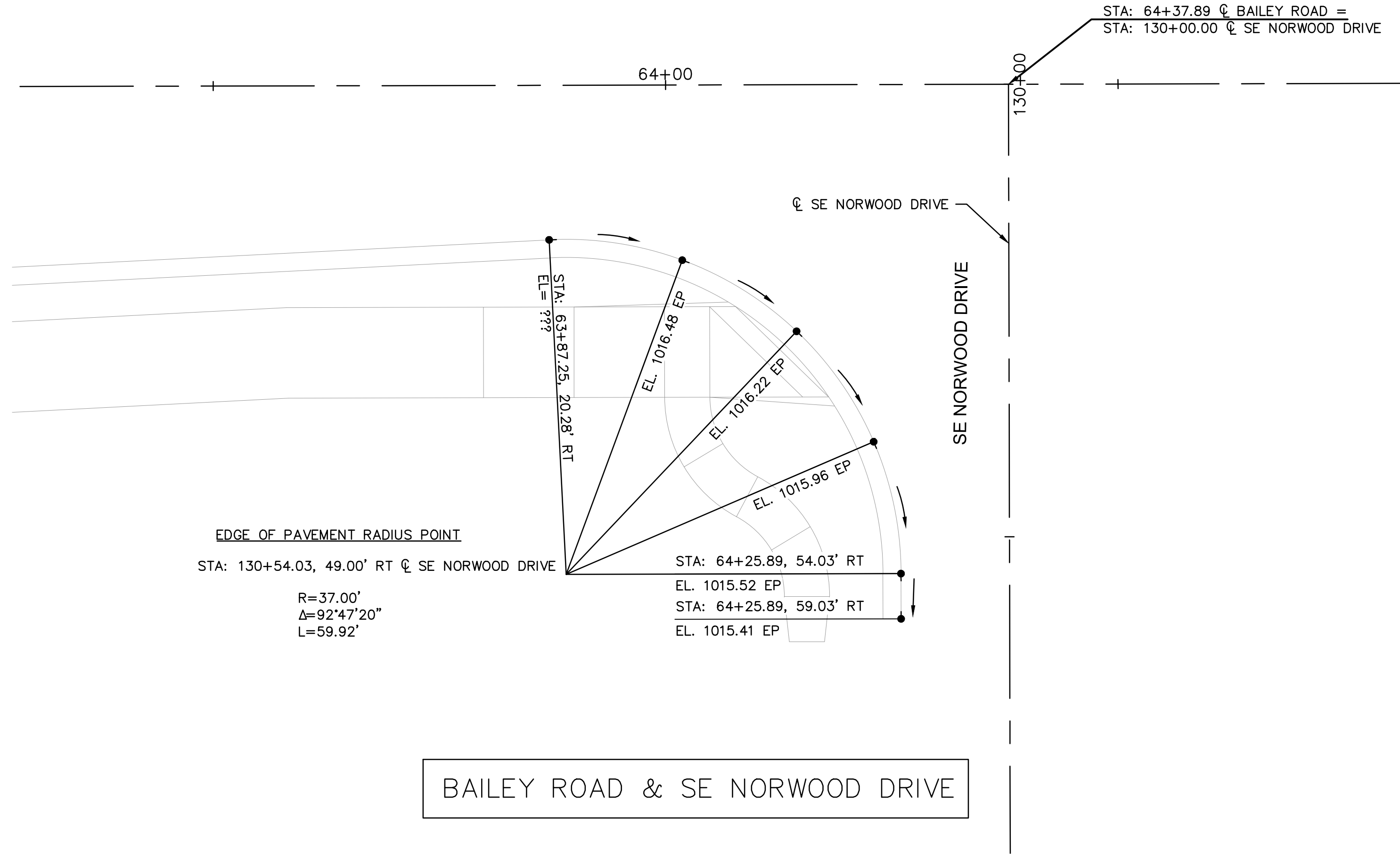
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34 OF 100

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BAILEY ROAD & SE BROADWAY DRIVE



BAILEY ROAD & SE NORWOOD DRIVE

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REV. NO.	DATE	REVISIONS DESCRIPTION	BY

INTERSECTION LAYOUTS

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

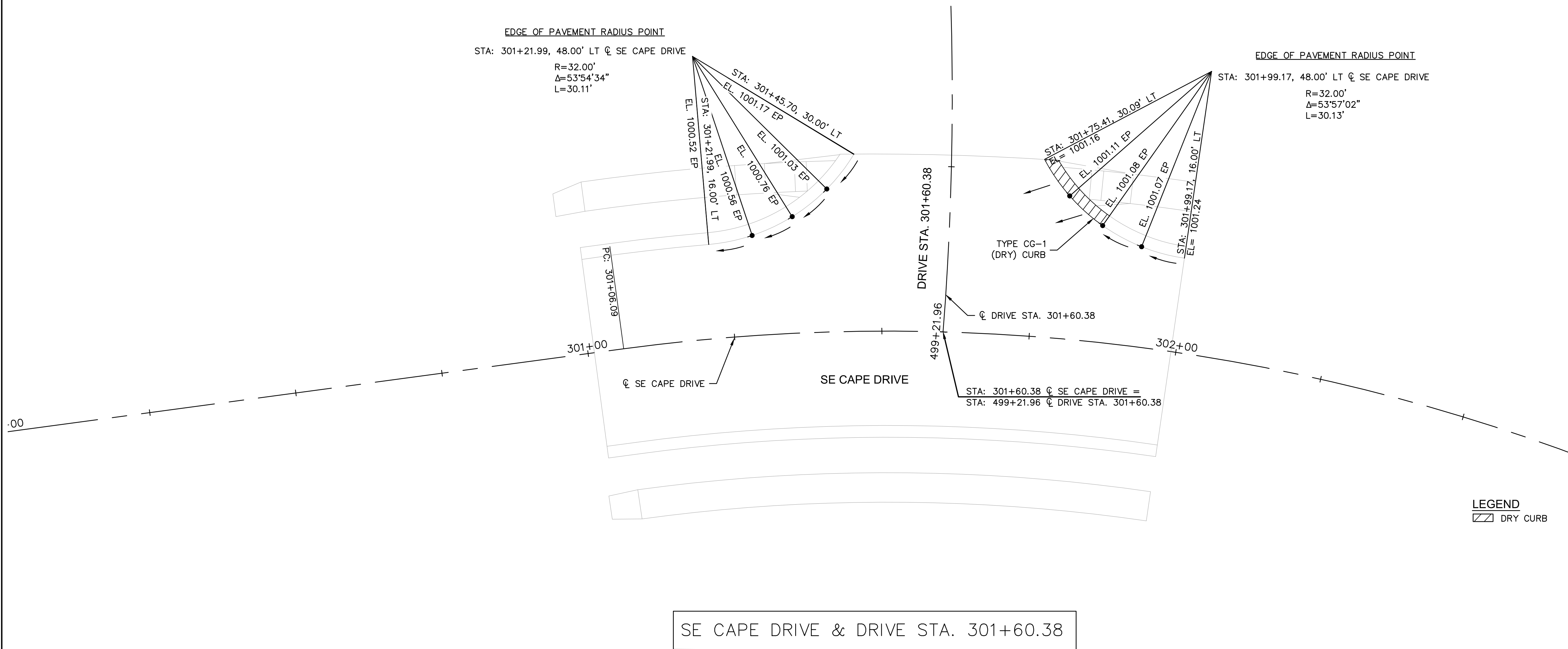
2021

LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: RPH
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 APPROVED BY: RBE
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 PROJECT NO.: 020-0103
 DWG NO.: T_INT01_0200103
 DATE: 2021-02-01

SHEET
 35 OF 100

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SE CAPE DRIVE & DRIVE STA. 301+60.38

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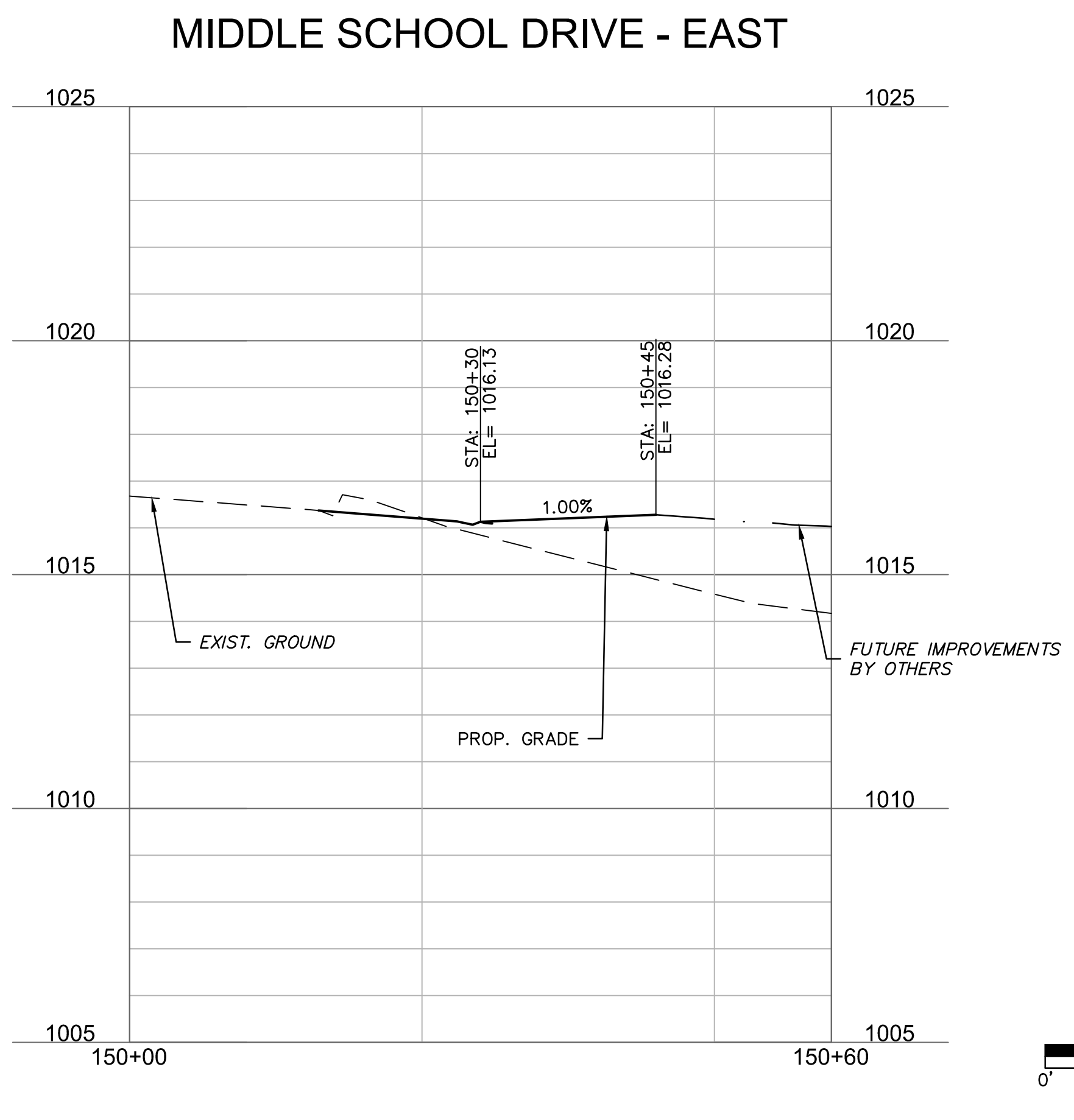
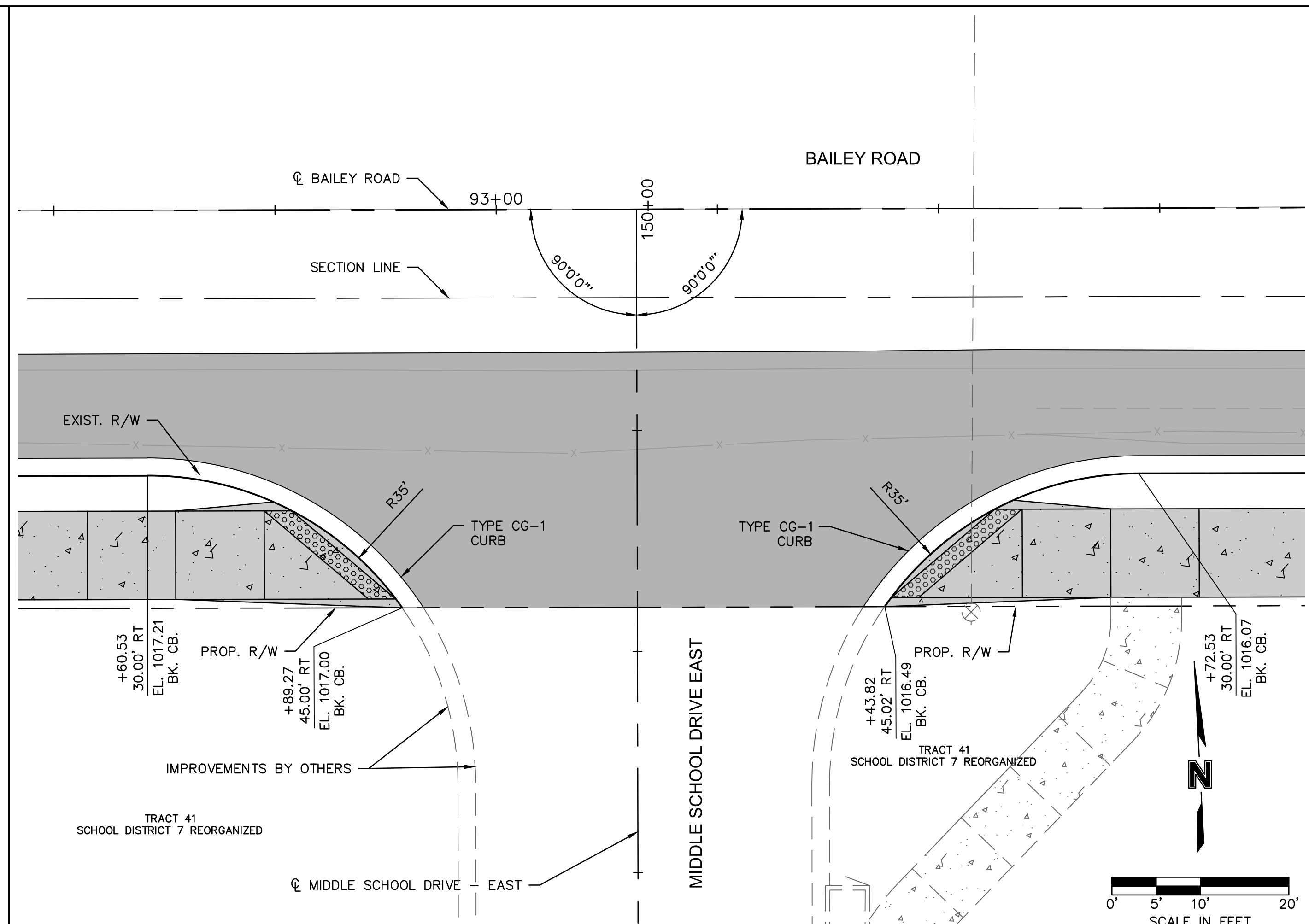
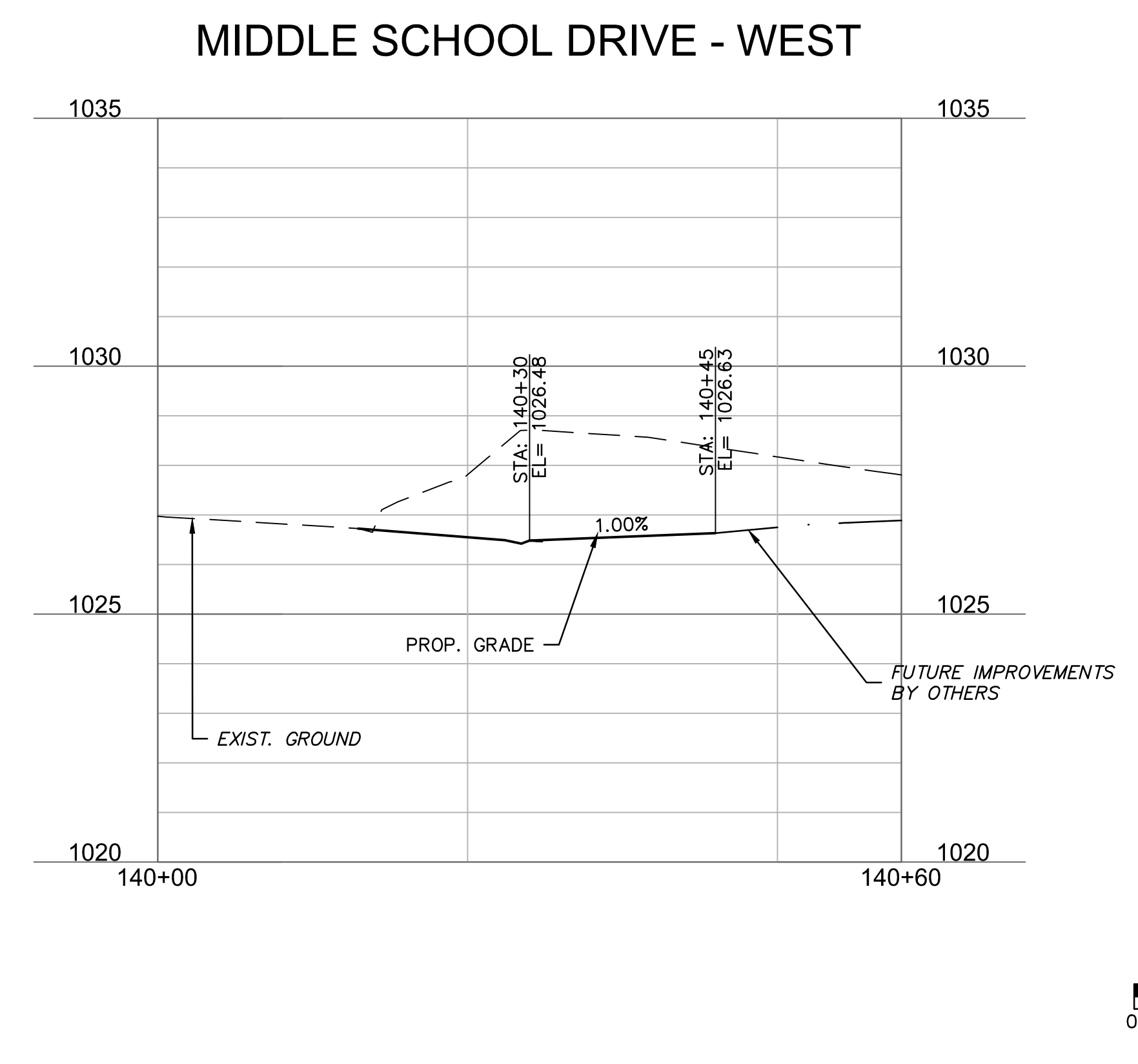
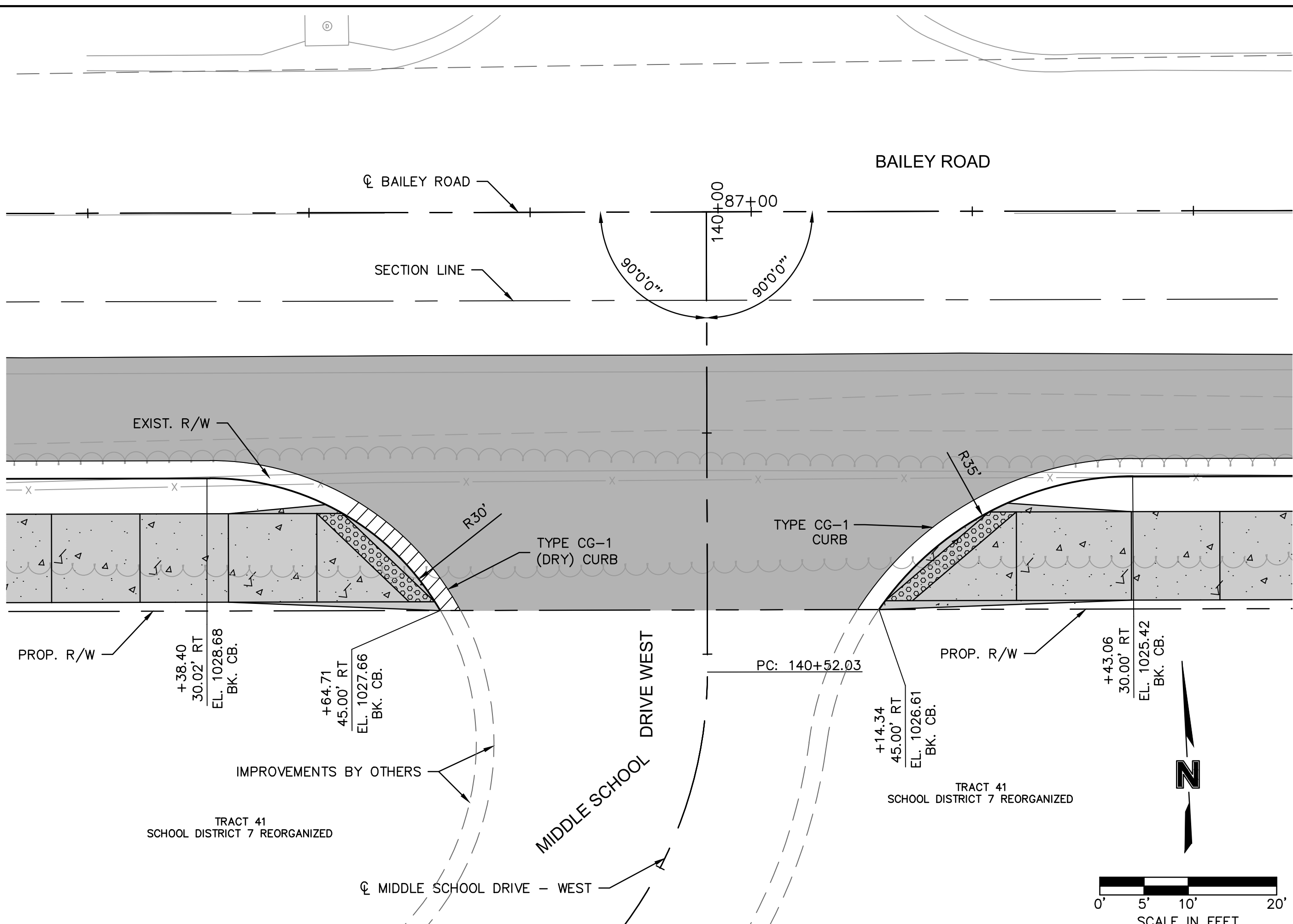
RYAN B. FLEMING
 MO. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

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

C.O.A. NO.: 001592
 DRAWN BY: RPH
 CHECKED BY: RBE
 APPROVED BY: RBE
 QA/QC BY: XXX
 PROJECT NO.: 020-0103
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REV. NO.	DATE	REVISIONS DESCRIPTION	BY

REVISIONS

DRIVEWAY LAYOUT

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

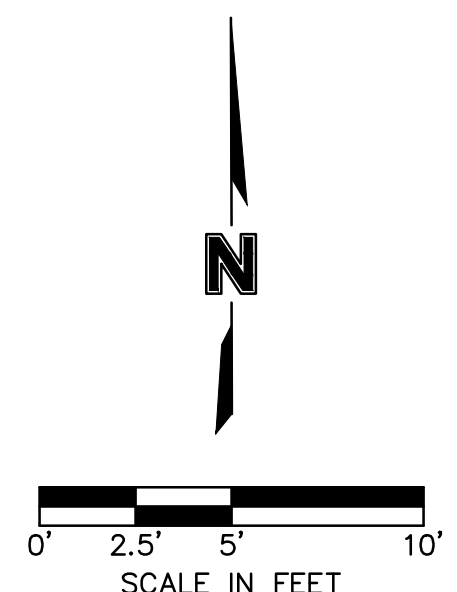
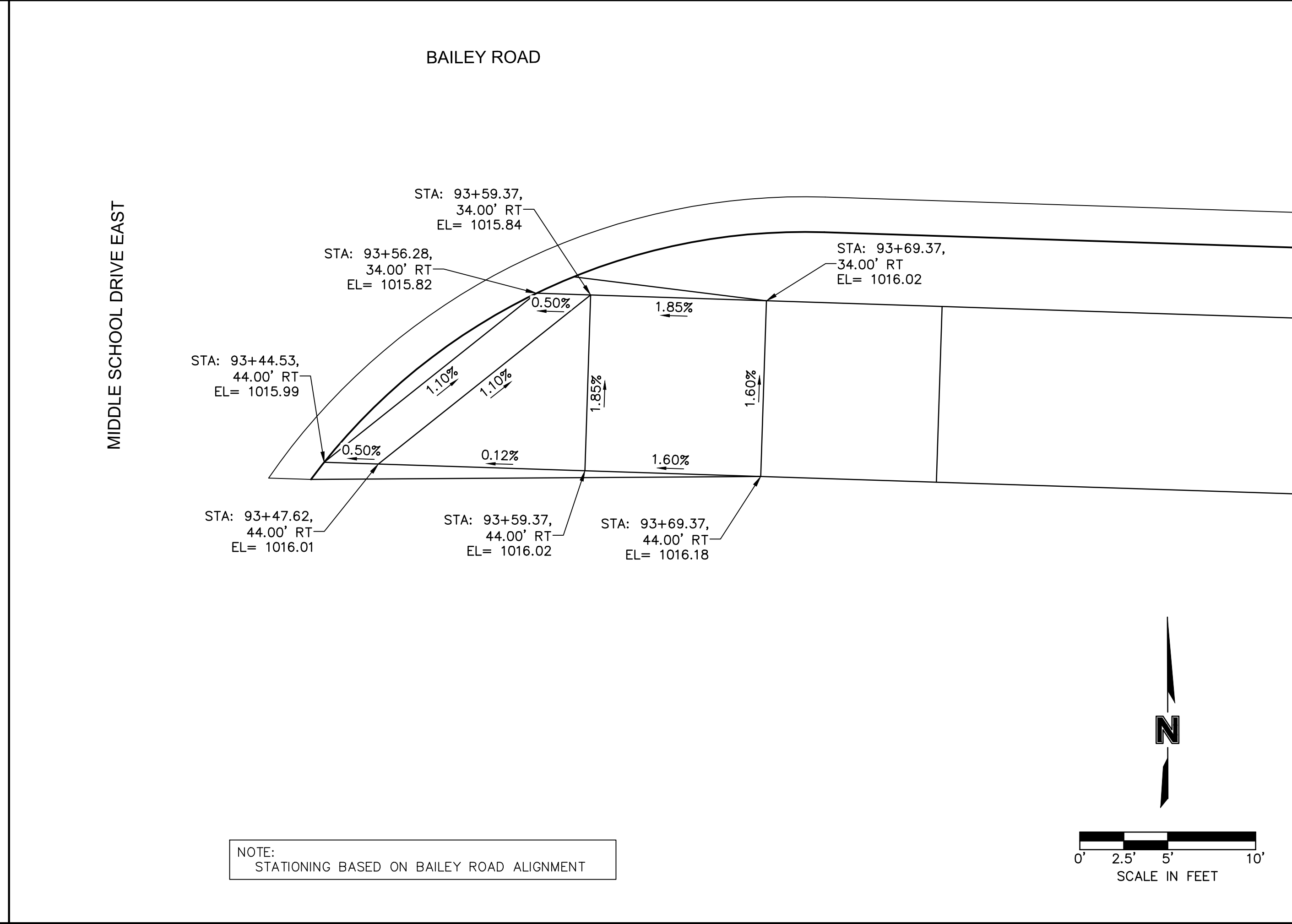
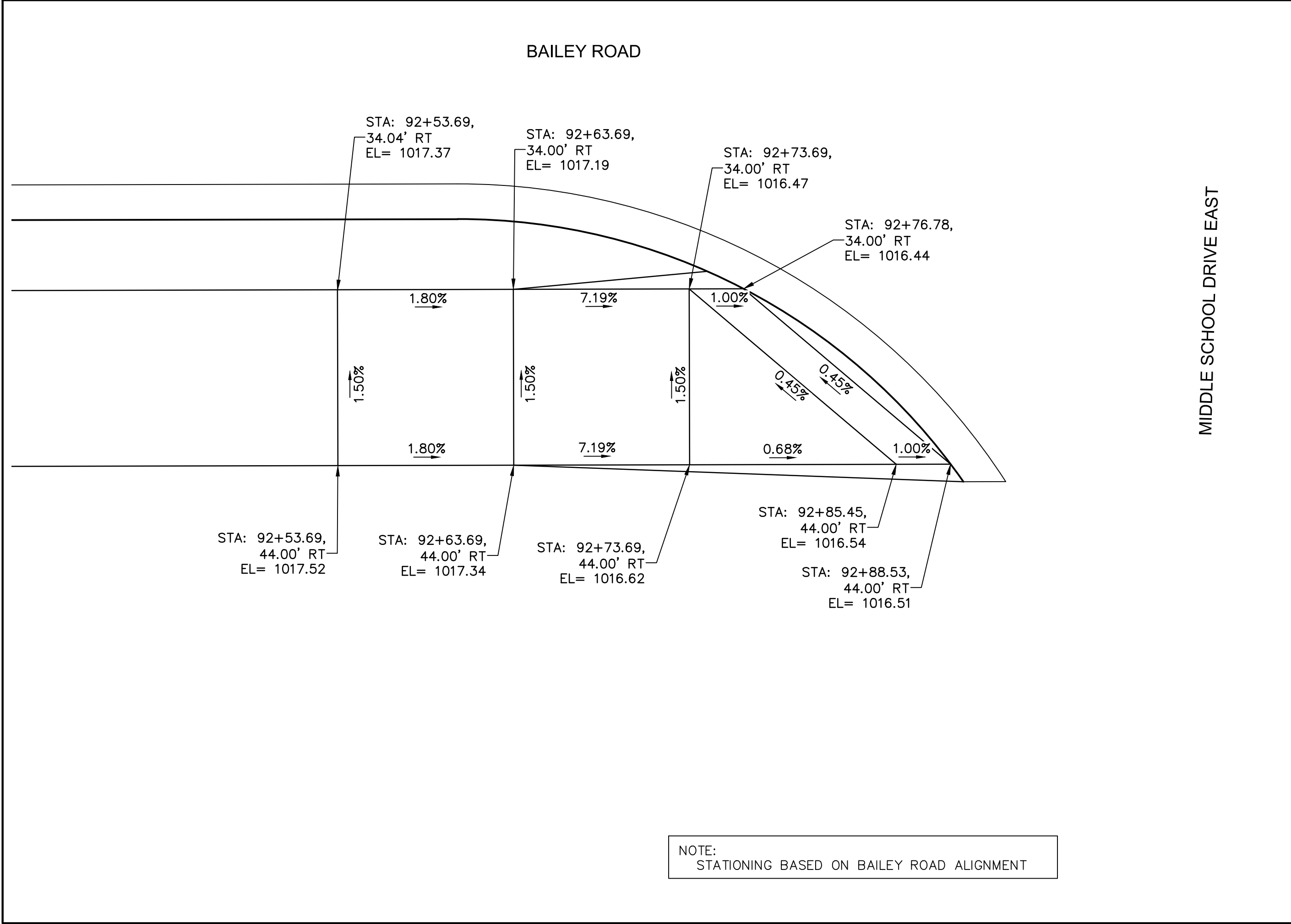
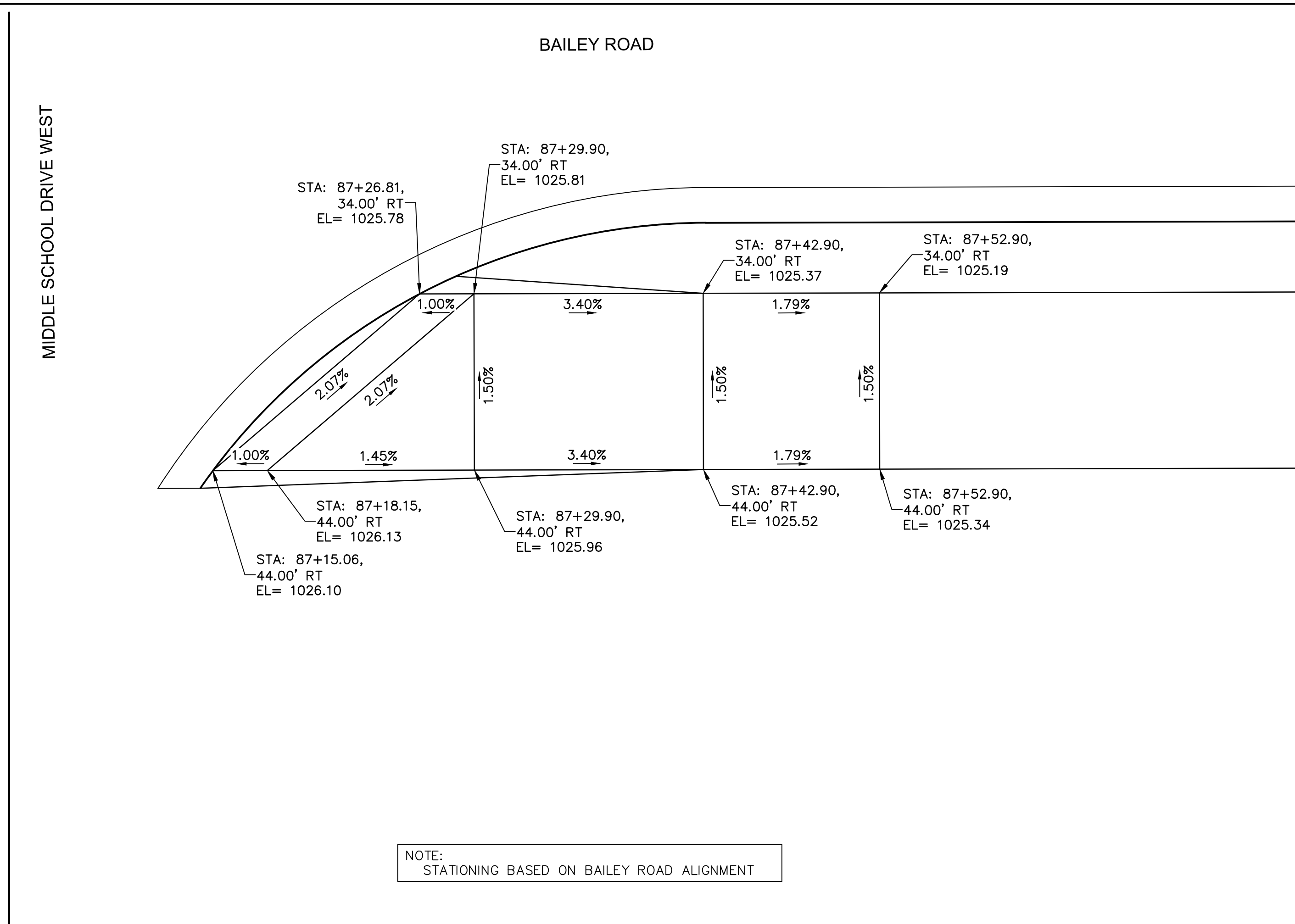
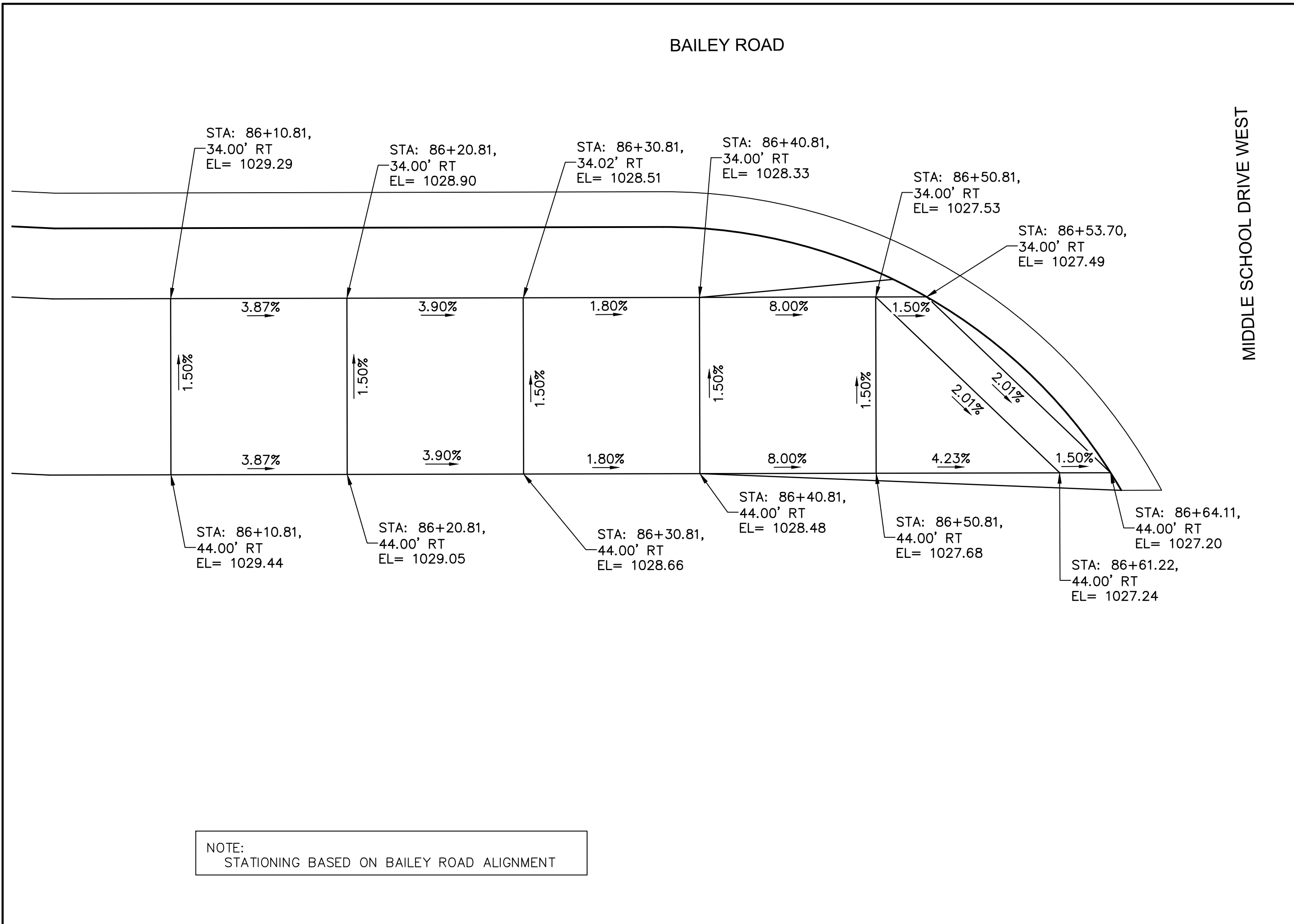
LEE'S SUMMIT, MISSOURI

2021

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 DATE: 2021-02-01

SHEET
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RYAN B. FLEMING
MO. NO. PE-2002003161

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SIDEWALK LAYOUTS

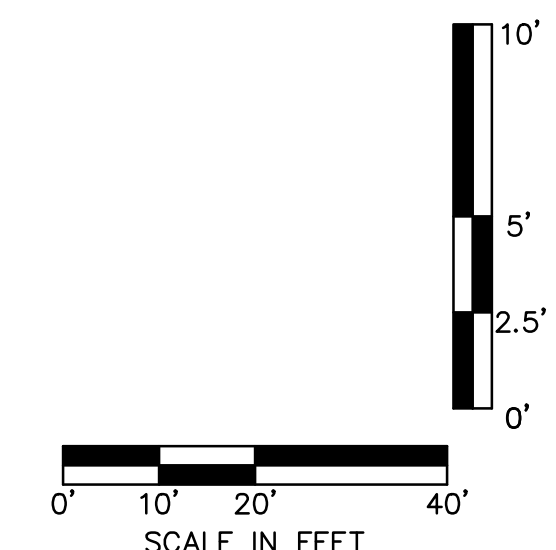
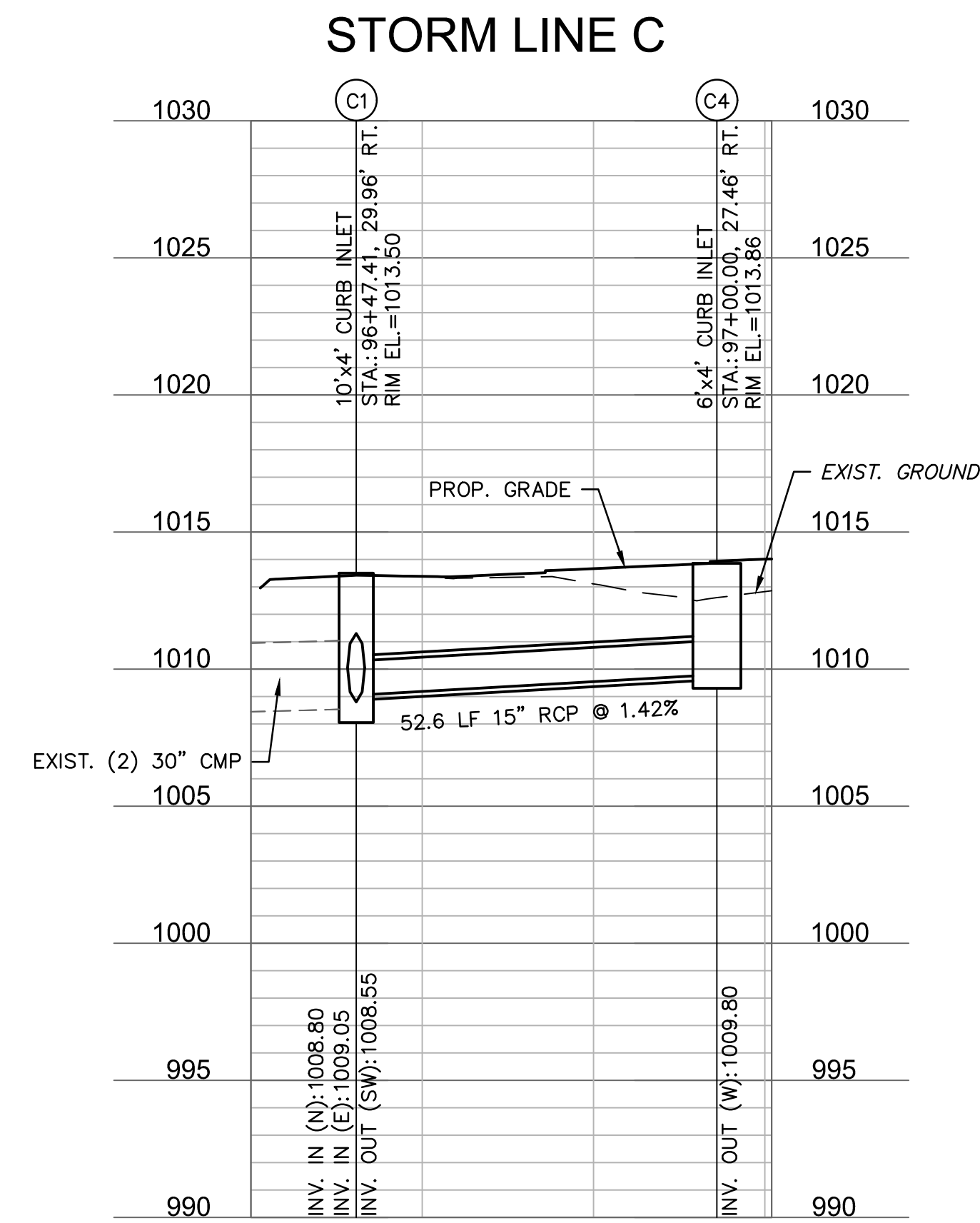
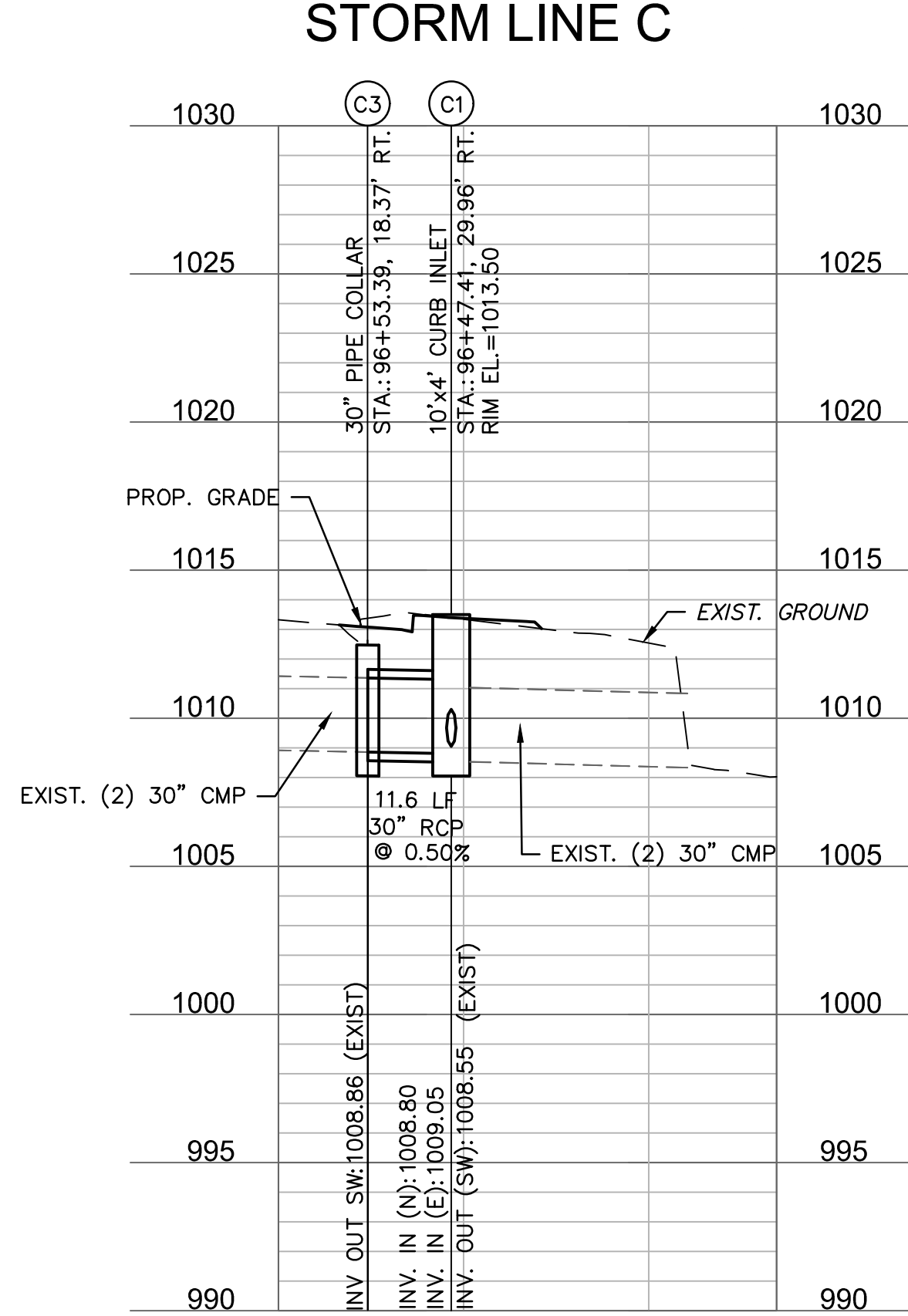
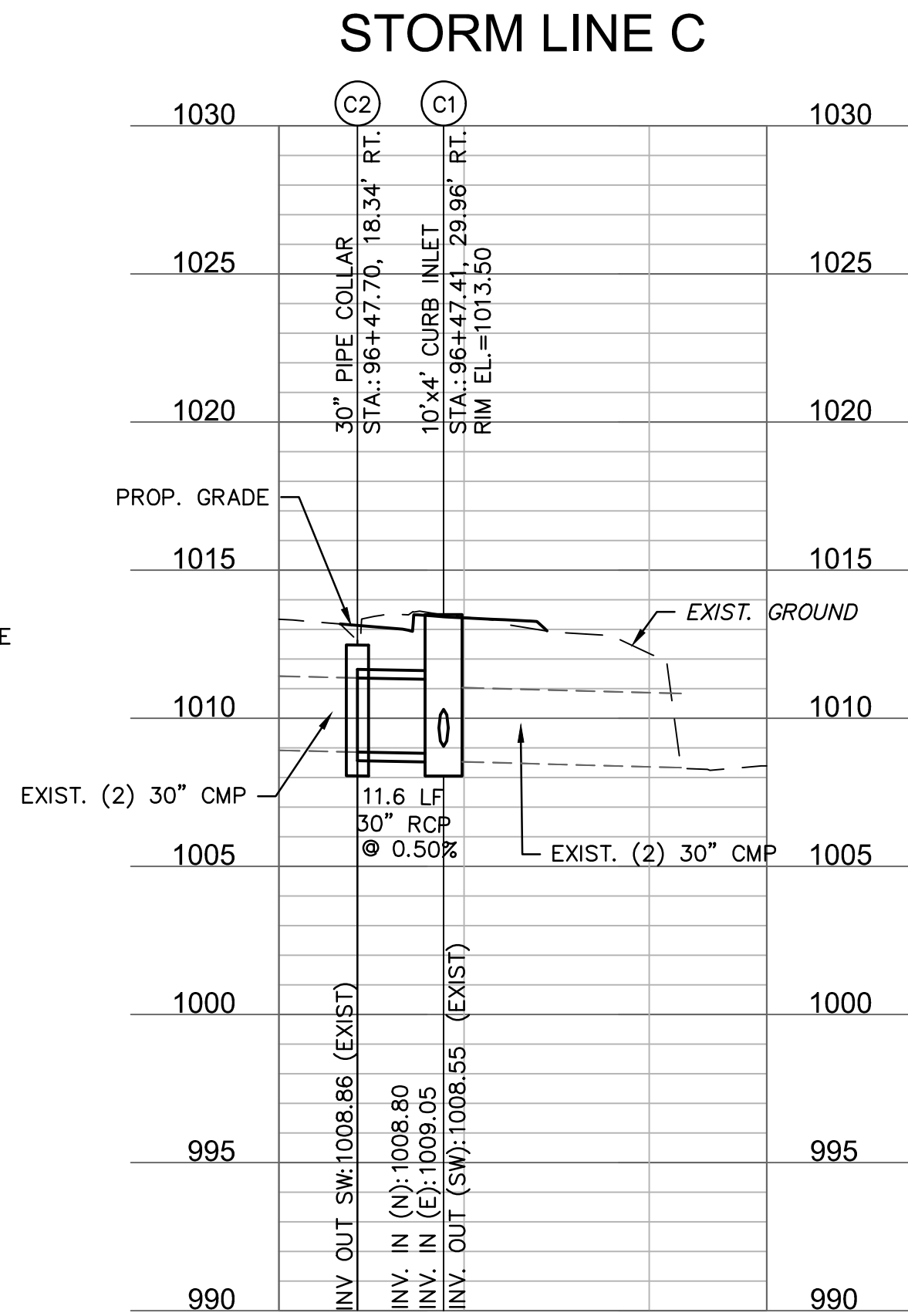
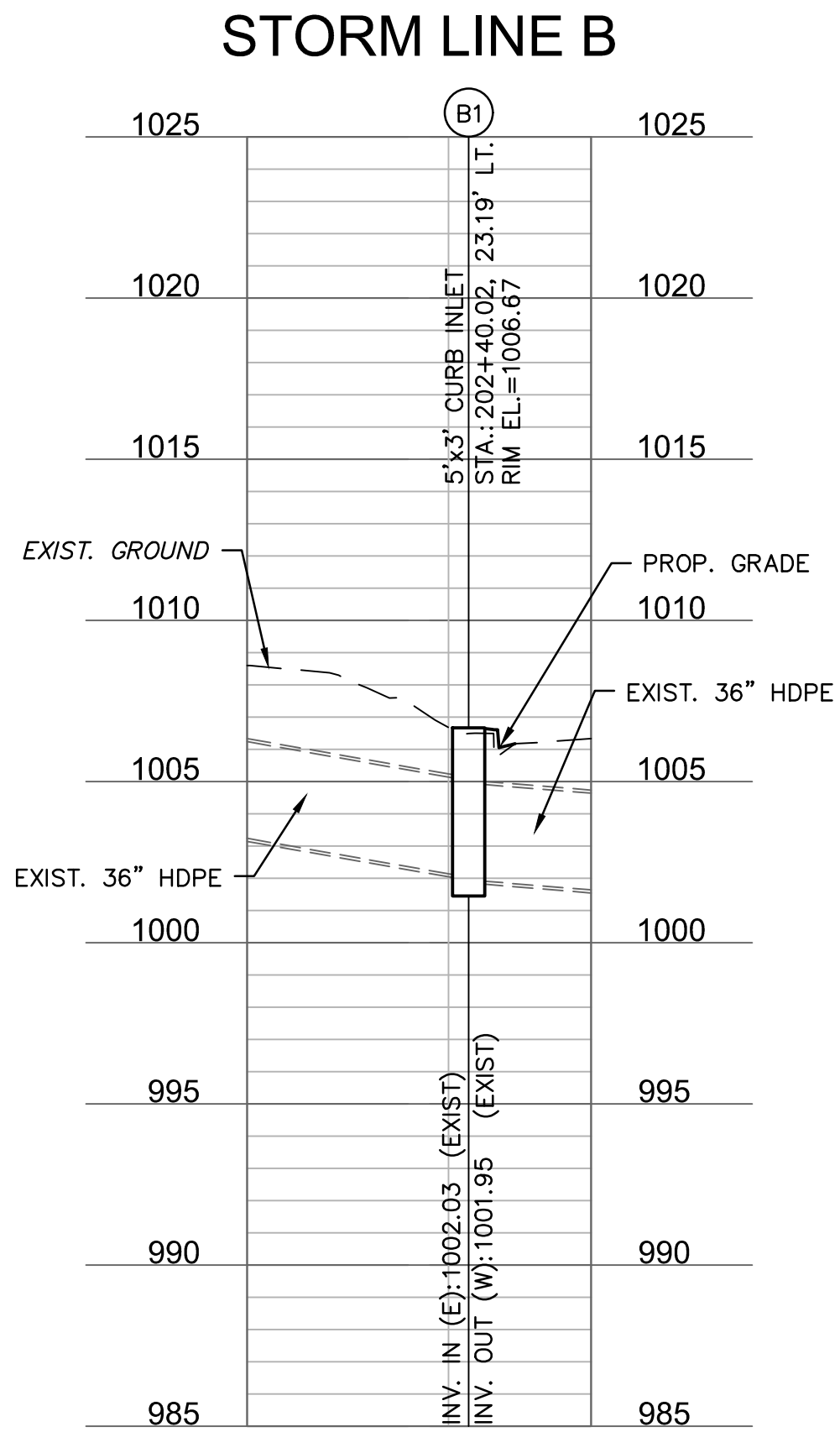
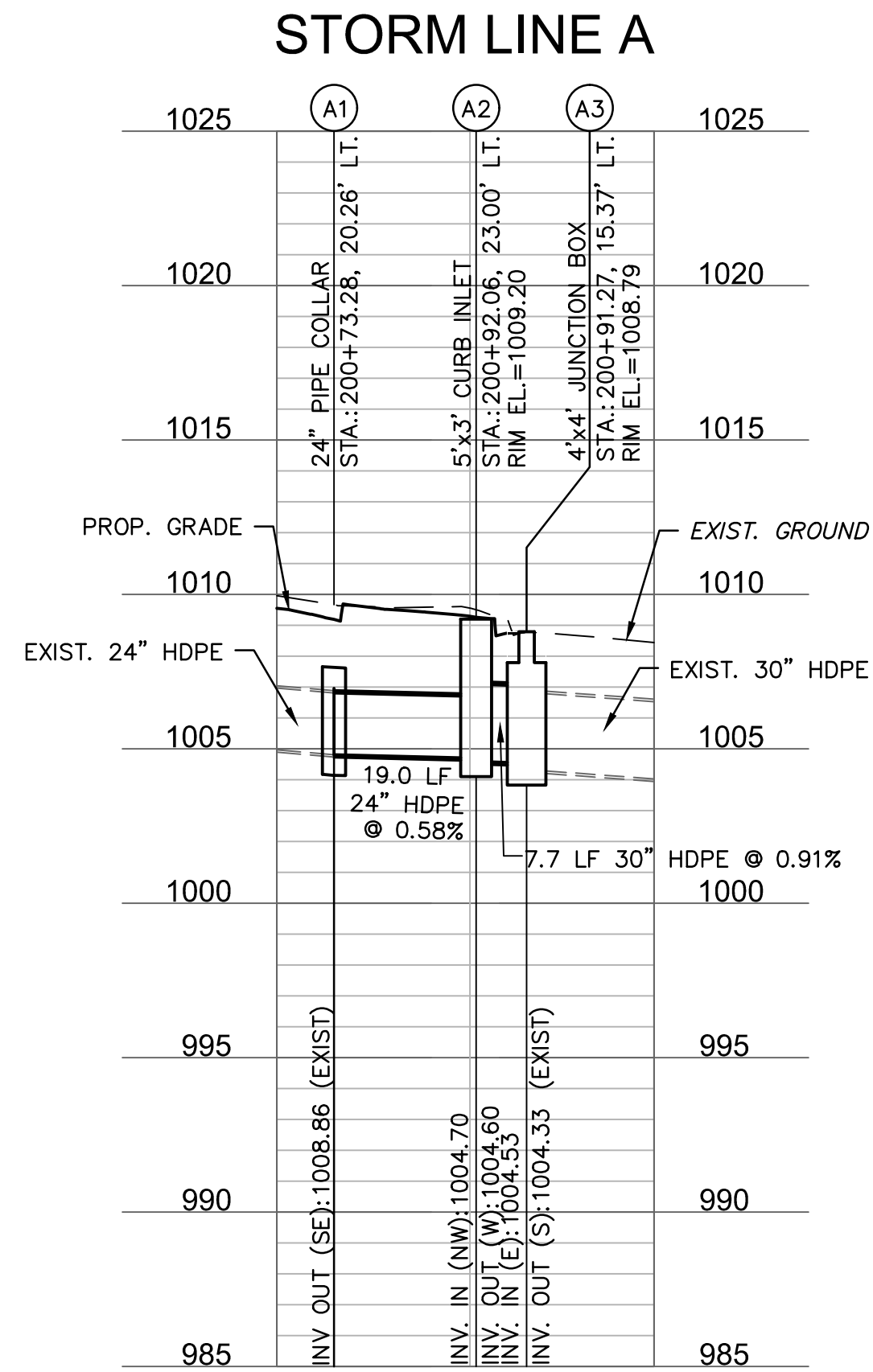
LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS

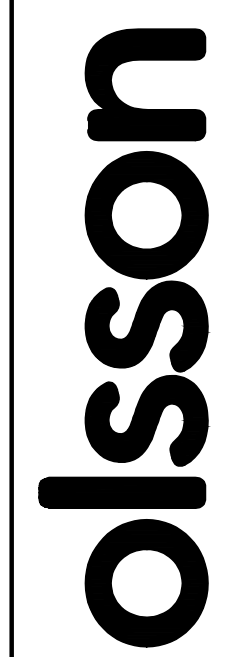
LEE'S SUMMIT, MISSOURI

2021

C.O.A. NO.: 001592
 DRAWN BY: RPH
 CHECKED BY: RBE
 APPROVED BY: RBE
 QA/QC BY: XXX
 PROJECT NO.: 020-0103
 DWG NO. T_SWK01_0200103_LS
 DATE: 2021-02-01

SHEET
42 OF 100





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

FINAL PLANS
NOT FOR CONSTRUCTION

RYAN B. FLEMING
MO. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

2021

REVISIONS

STORM SEWER PROFILES

LEE'S SUMMIT MIDDLE SCHOOL #4

BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

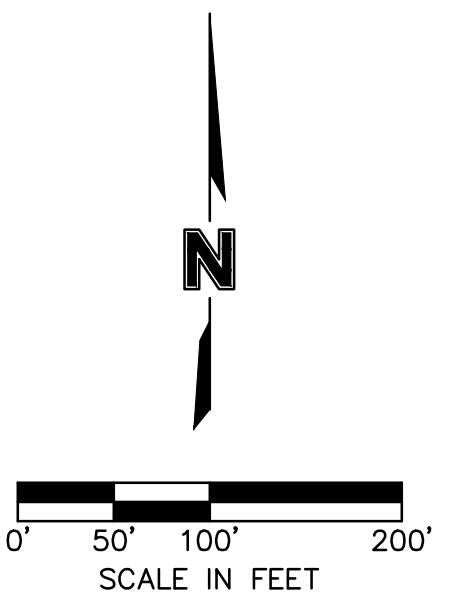
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 CHECKED BY: RBE
 APPROVED BY: RBE
 QA/QC BY: XXX
 PROJECT NO.: 020-0103
 DWG NO.: T_STRM01_0203004
 DATE: 2021-02-01

SHEET
44 OF 100

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 DATE: Apr 15, 2021 10:54am XREFS: T_PBASE_0200103 V_TOPO_00103 T_PDRN_0200103 C_PBASE_0200103 T_PSTRM_0200103 USER: rthaller



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)	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)
C4	Standard Curb Inlet	On Grade	1,013.86	1,009.80	0.51	1.92	9.80	6.12	6.12	6.00	3.09	3.00	50.80	C1	1.00	2.00	13.00	3.60
C1	Standard Curb Inlet	In Sag	1,013.46	1,008.56	0.86	1.22	9.85	6.11	5.17	10.00	9.42	0.00	100.00	N/A	N/A	2.00	22.70	6.00



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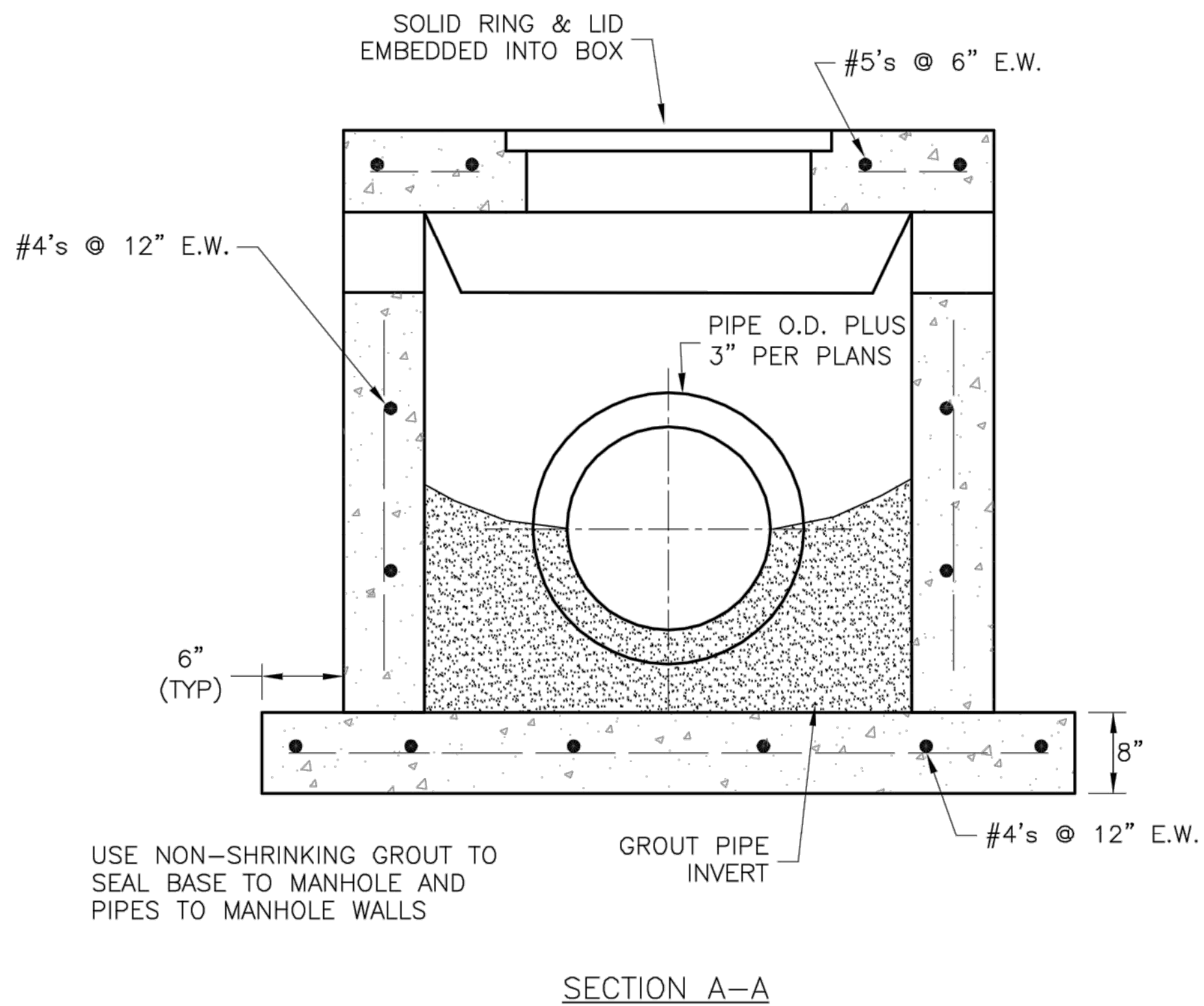
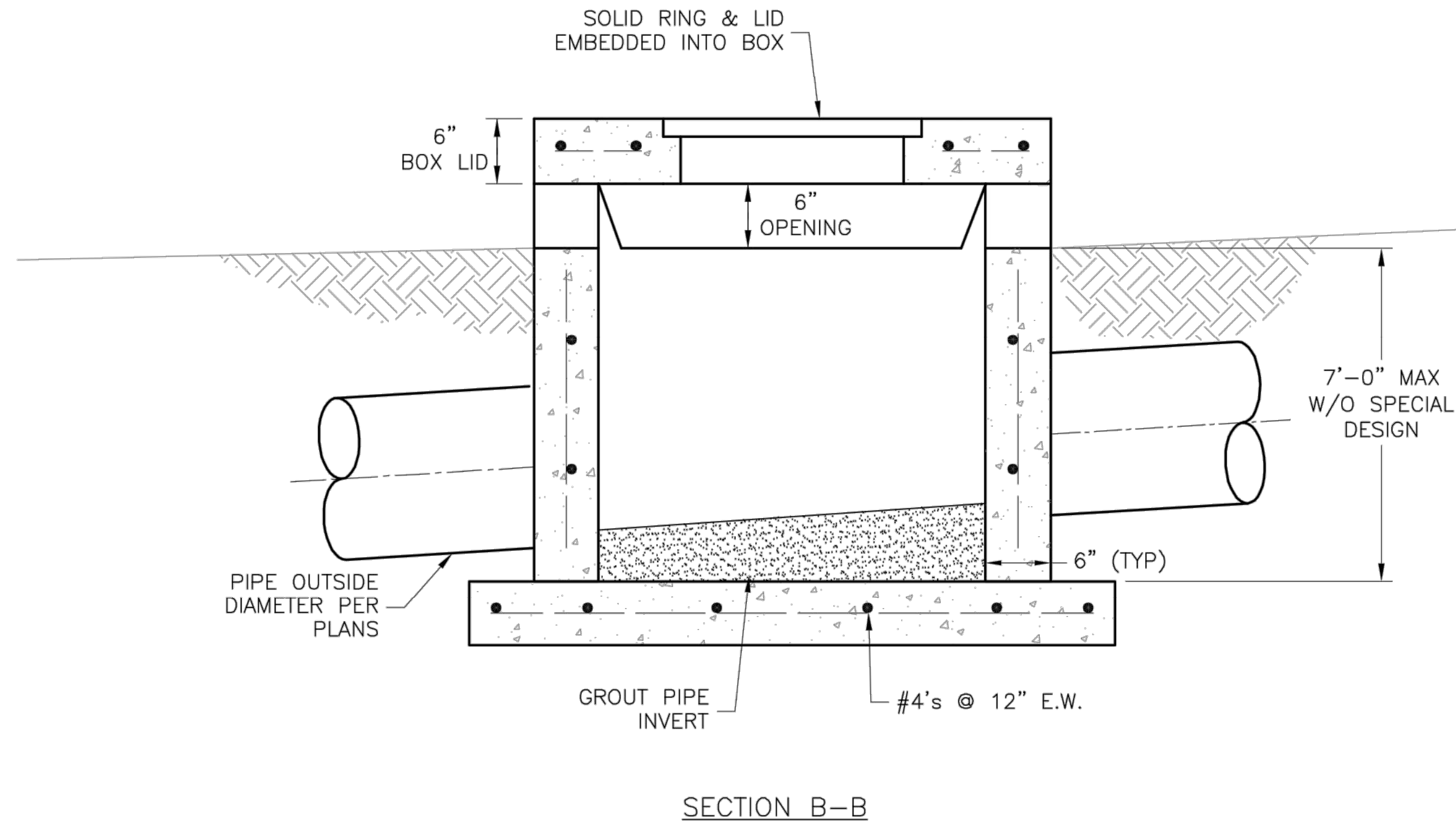
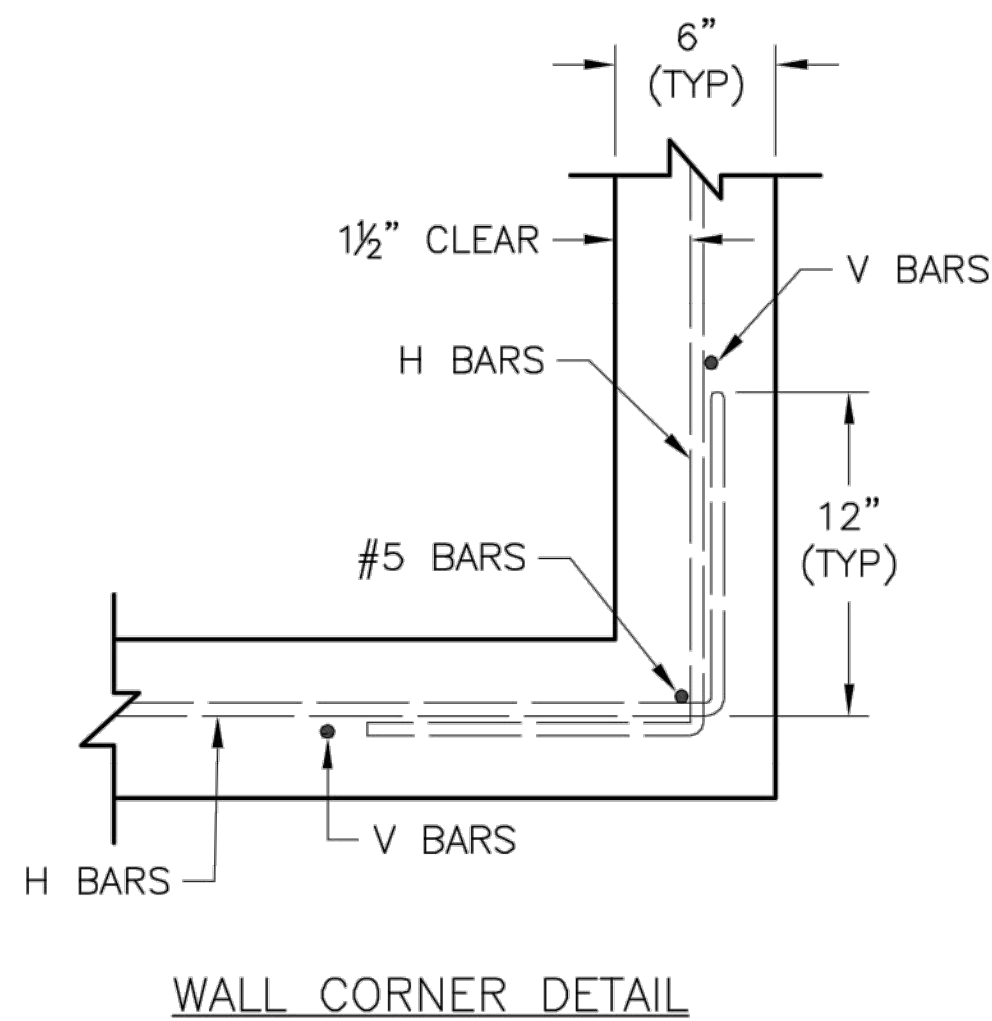
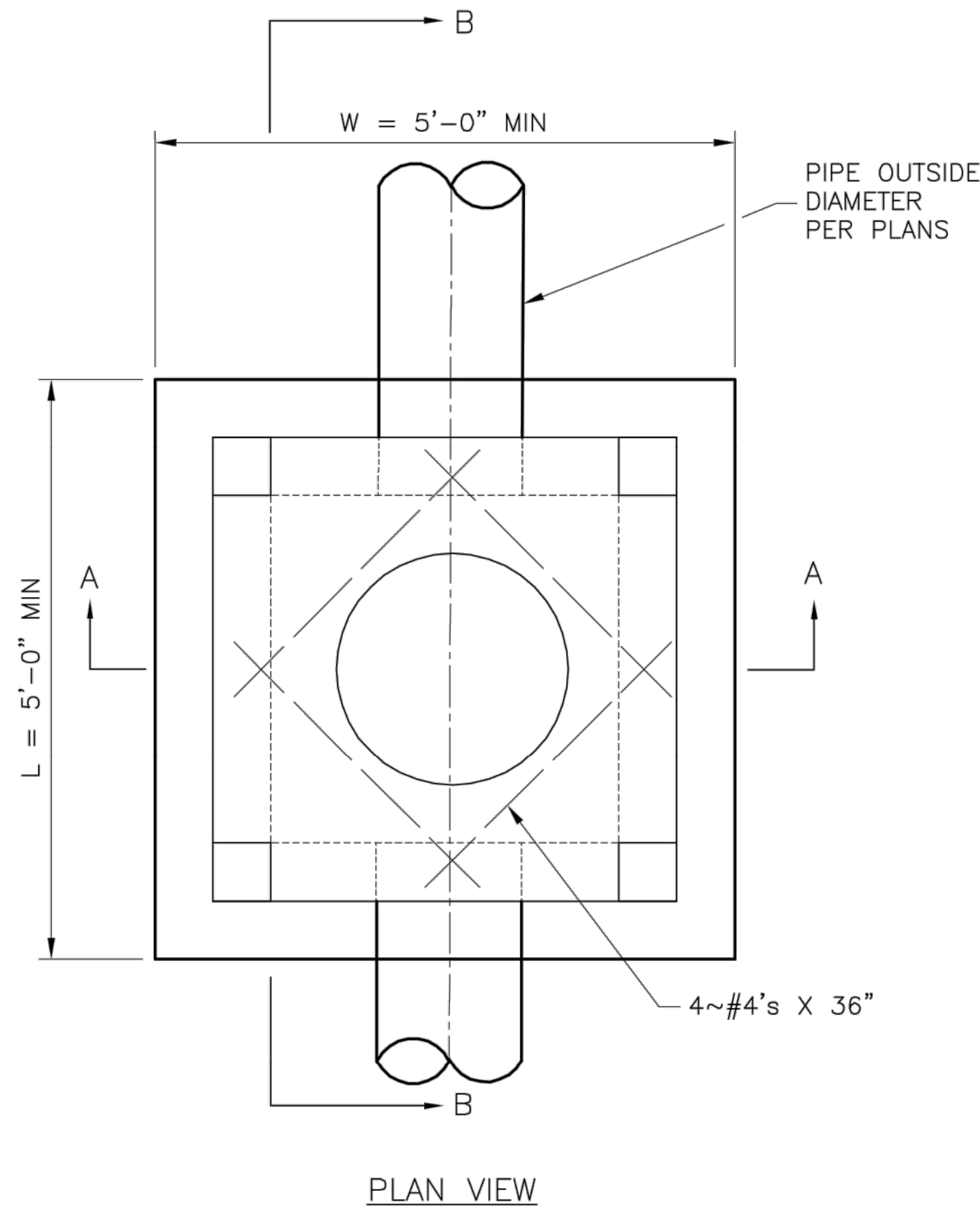
FINAL PLANS
 NOT FOR CONSTRUCTION
 RYAN B. FLEMING
 MO. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

REVISIONS

DRAINAGE MAP &
 STORM SEWER CALCULATIONS
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI
 2021

C.O.A. NO.: 001592
 DRAWN BY: RPH
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 APPROVED BY: RBE
 QA/QC BY: XXX
 PROJECT NO.: 020-0103
 DWG NO.: T_DRN01_0200103
 DATE: 2021-02-01



GENERAL NOTES:

1. LOCATE RING AND COVER OVER OUTLET ON BLANK WALL.
2. USE 3/4" CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 3' ON BLANK WALL IF POSSIBLE.
5. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE.
6. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
7. SHOW FIELD INLET ORIENTATION ON PLANS PLUS NUMBER AND SIDE OF OPENINGS.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. 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 OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: FIELD INLET DETAIL

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

STM-2

FINAL PLANS
NOT FOR CONSTRUCTION

RYAN B. FLEMING
MO. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

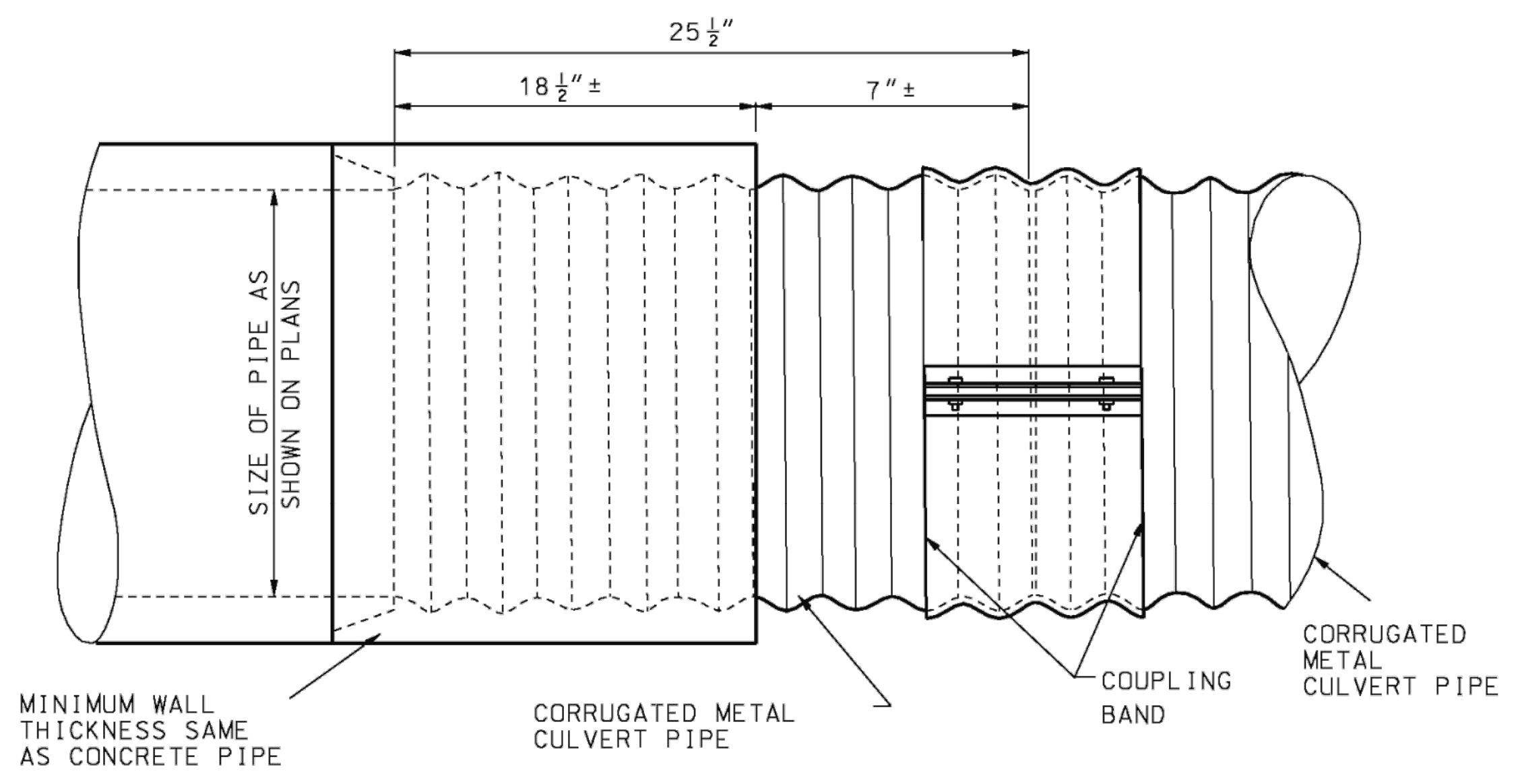
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CHECKED BY:	RBE
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QA/QC BY:	XXX
PROJECT NO.:	020-0103
DWG NO.:	STRMDTL01_0200103
DATE:	2021-02-01

USER: rhalder

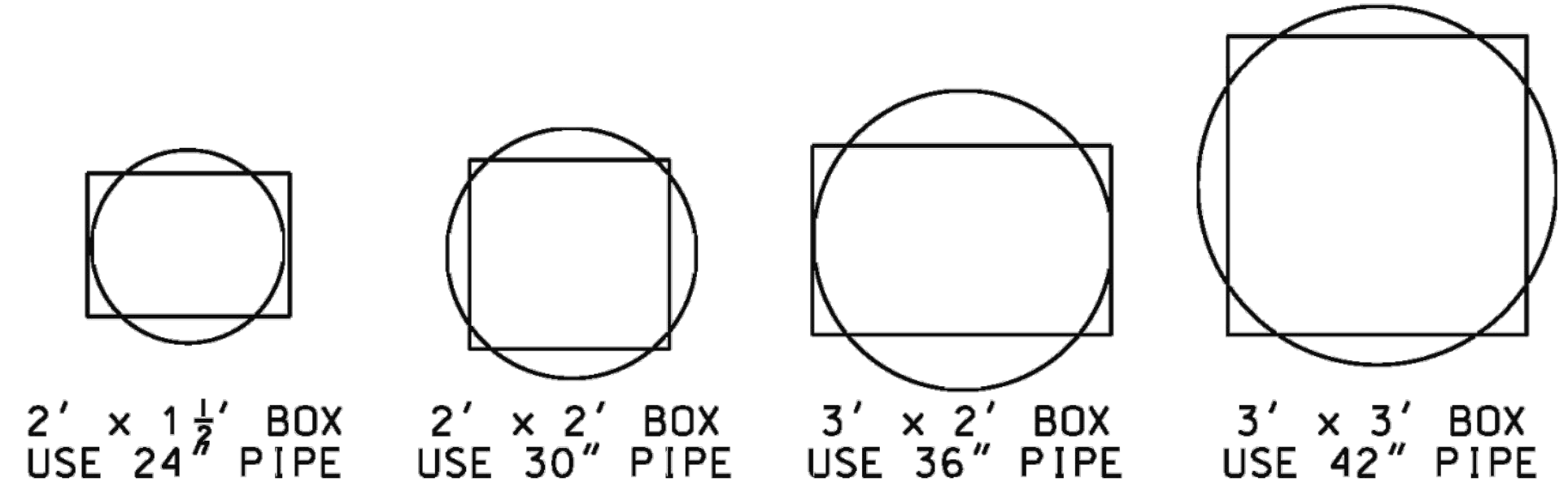
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 DATE: Apr 15, 2021 10:37am XREFS: T_PTBK_0200103

TABLE OF DIMENSIONS								
SIZE OF PIPE		DIMENSIONS		LENGTH OF BARS			QUANTITIES	
LARGE (IN.)	SMALL (IN.)	A & B (FT.-IN.)	C (FT.-IN.)	A (#5) 12 REQUIRED (FT.-IN.)	B (#6) 4 REQUIRED (FT.-IN.)	C (#4) 8 REQUIRED (FT.-IN.)	CONCRETE (CU. YD.)	STEEL (LBS.)
12	12	2-8	1-0	2-5	5-10	0-9	0.21	70
15	12 15	3-0	1-0	2-9	6-6	0-9	0.27 0.25	77
18	12 15 18	3-3	1-0	3-0	7-0	0-9	0.33 0.32 0.30	84
21	12 15 18	3-6	1-0	3-3	7-6	0-9	0.36 0.34 0.33	90
24	15 18 24	3-10	1-0	3-6	8-2	0-9	0.44 0.40 0.36	97
30	18 24 30	4-5	1-4	4-2	9-4	1-0	0.71 0.66 0.60	114
36	24 30 36	5-0	1-4	4-9	10-6	1-0	0.88 0.79 0.76	128
42	30 36 42	5-7	1-4	5-4	11-8	1-0	1.05 0.98 0.89	142
48	36 42 48	6-2	1-4	6-0	12-10	1-0	1.22 1.13 1.03	158
54	42 48 54	7-1	1-8	6-9	14-8	1-6	2.02 1.90 1.76	181
60	48 54 60	7-8	1-8	7-5	15-10	1-6	2.27 2.13 1.97	196
66	54 60 66	8-3	2-0	8-0	17-0	1-9	3.04 2.85 2.65	210
72	60 66 72	8-10	2-0	7-7	18-2	1-9	3.36 3.16 2.93	225

TABLE OF DIMENSIONS										
BOX SIZE (FT.)	PIPE SIZE (IN.)	DIMENSIONS			LENGTH OF BARS				QUANTITIES	
		A (FT.-IN.)	B (FT.-IN.)	C (FT.-IN.)	A (#5) 6 REQUIRED (FT.-IN.)	B (#6) 4 REQUIRED (FT.-IN.)	C (#4) 8 REQUIRED (FT.-IN.)	D (#5) 6 REQUIRED (FT.-IN.)	CONCRETE (CU. YD.)	STEEL (LBS.)
2 x 1 1/2	24	5-1	4-9	1-0	4-10	10-4	0-9	4-6	0.65	124
2 x 2	30	5-3	5-3	1-4	5-0	11-0	1-0	5-0	0.93	134
3 x 2	36	6-1	5-10	1-4	5-10	12-5	1-0	5-7	1.16	151
3 x 3	42	6-5	6-5	1-4	6-0	13-4	1-0	6-0	1.29	162



TYPE B COLLAR
(FOR CONCRETE PIPE TO CORRUGATED METAL PIPE)



PIPE PLACEMENT

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
<h2>PIPE COLLARS</h2>	
DATE EFFECTIVE: 10/01/2000 DATE PREPARED: 8/21/2009	604.40F
SHEET NO. 2 OF 2	

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

FINAL PLANS
NOT FOR CONSTRUCTION

RYAN B. FLEMING
MO. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

STORM SEWER DETAILS

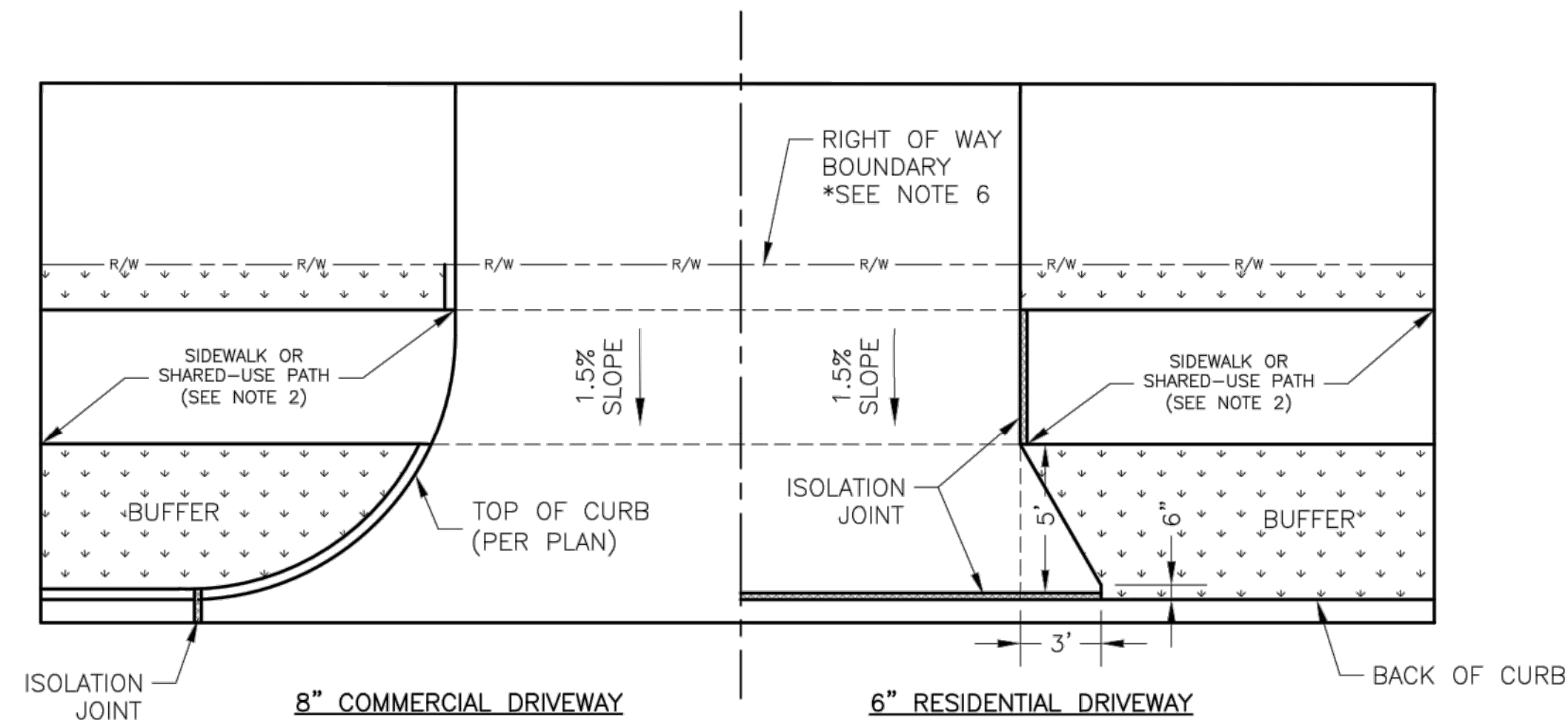
LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS

2021

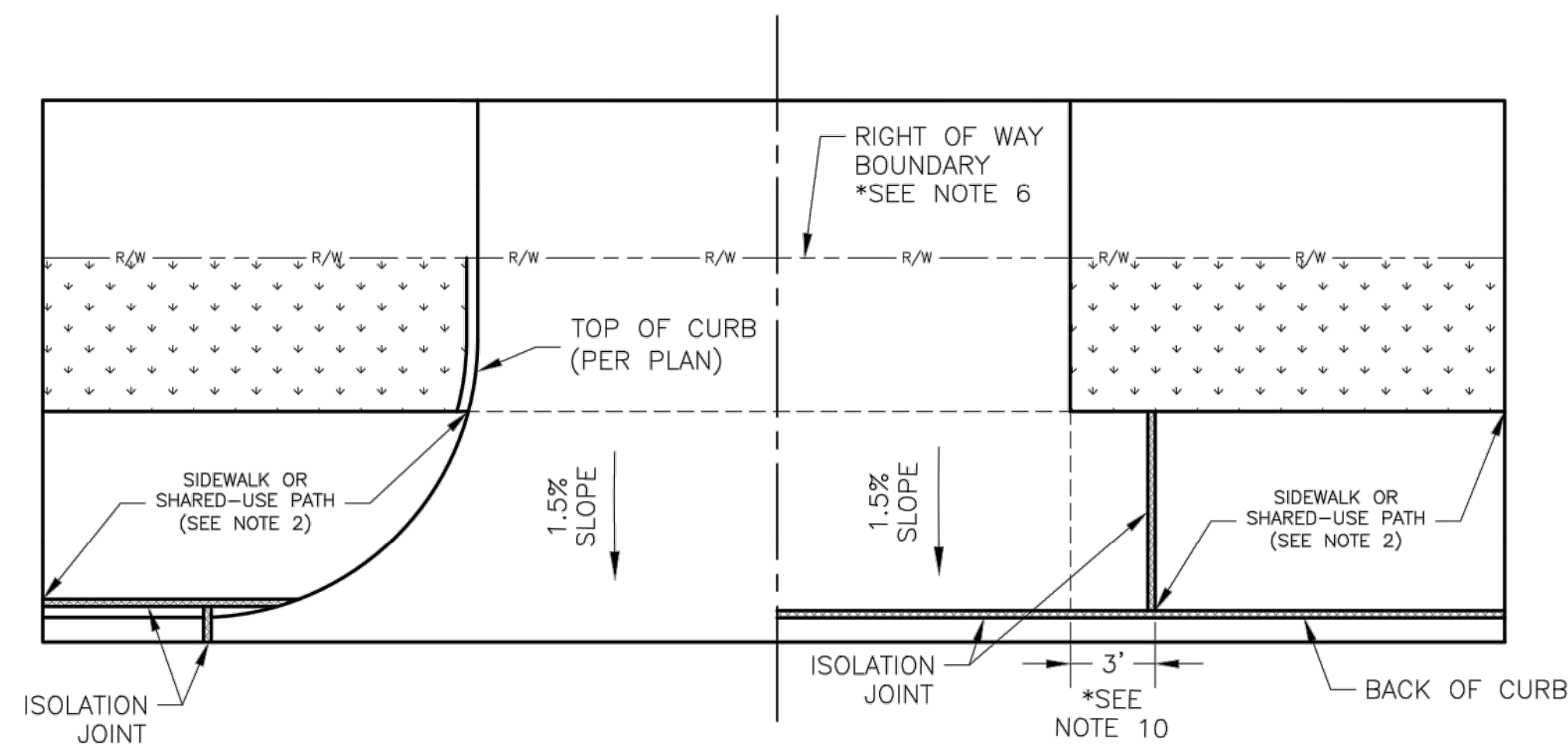
LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
 DRAWN BY: RPH
 CHECKED BY: RBE
 APPROVED BY: RBE
 QA/QC BY: XXX
 PROJECT NO.: 020-0103
 DWG NO: STRMDTL01_0200103
 DATE: 2021-02-01

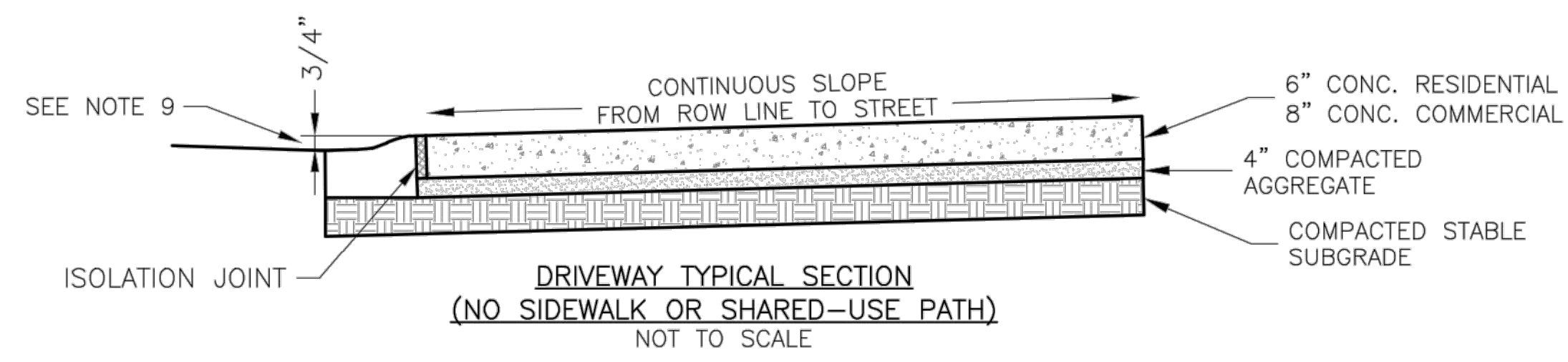
Olsson Engineering - MO State Certificate of Authority #001592
 7301 West 133rd Street, Suite 200
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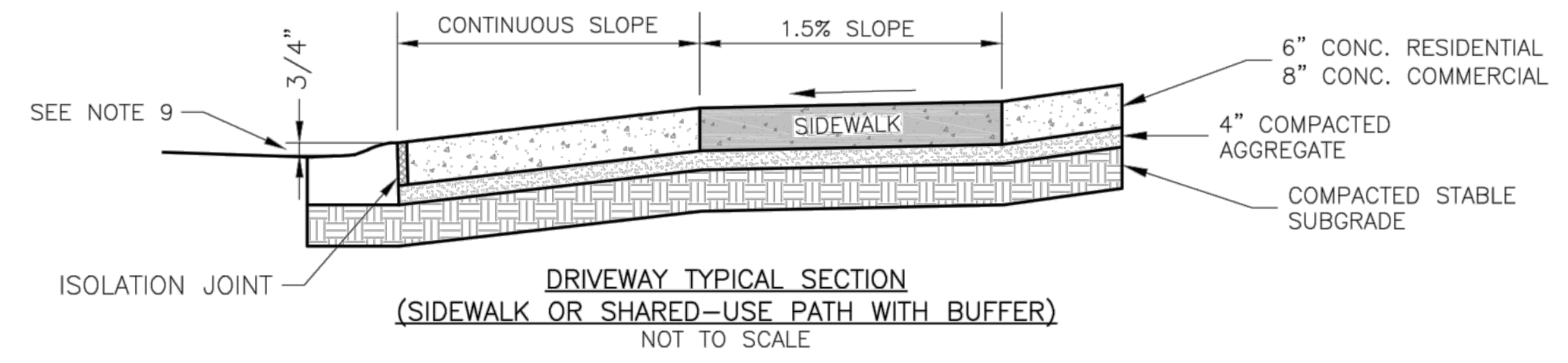
DRIVEWAY WITH BUFFER
NOT TO SCALE



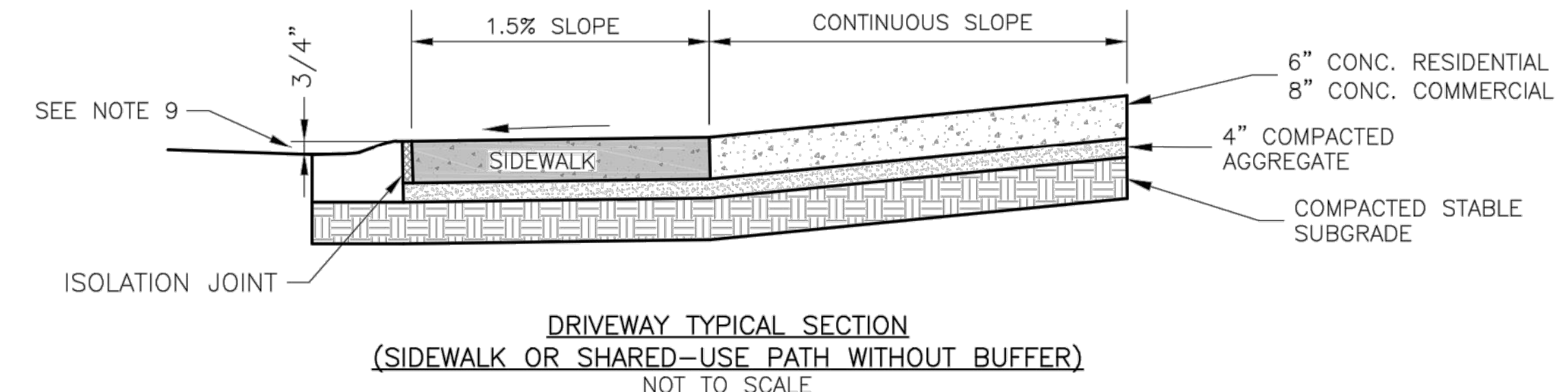
DRIVEWAY WITHOUT BUFFER
NOT TO SCALE



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

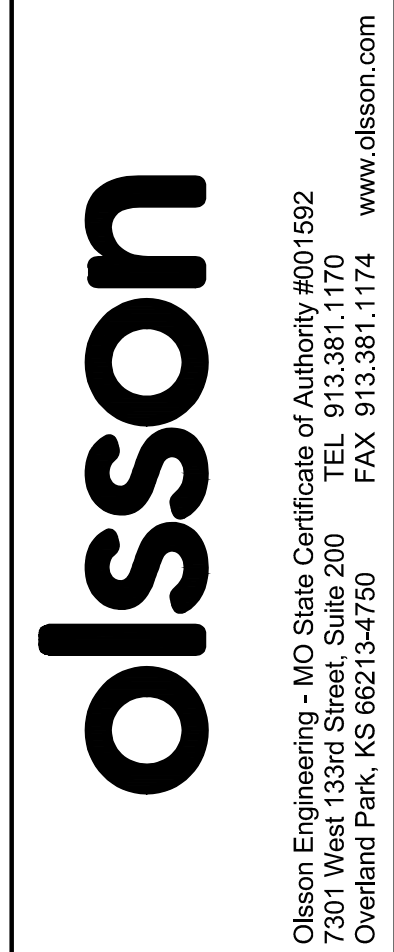
- GENERAL NOTES**
1. SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 2. ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT 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.

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: e:

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

GEN-1



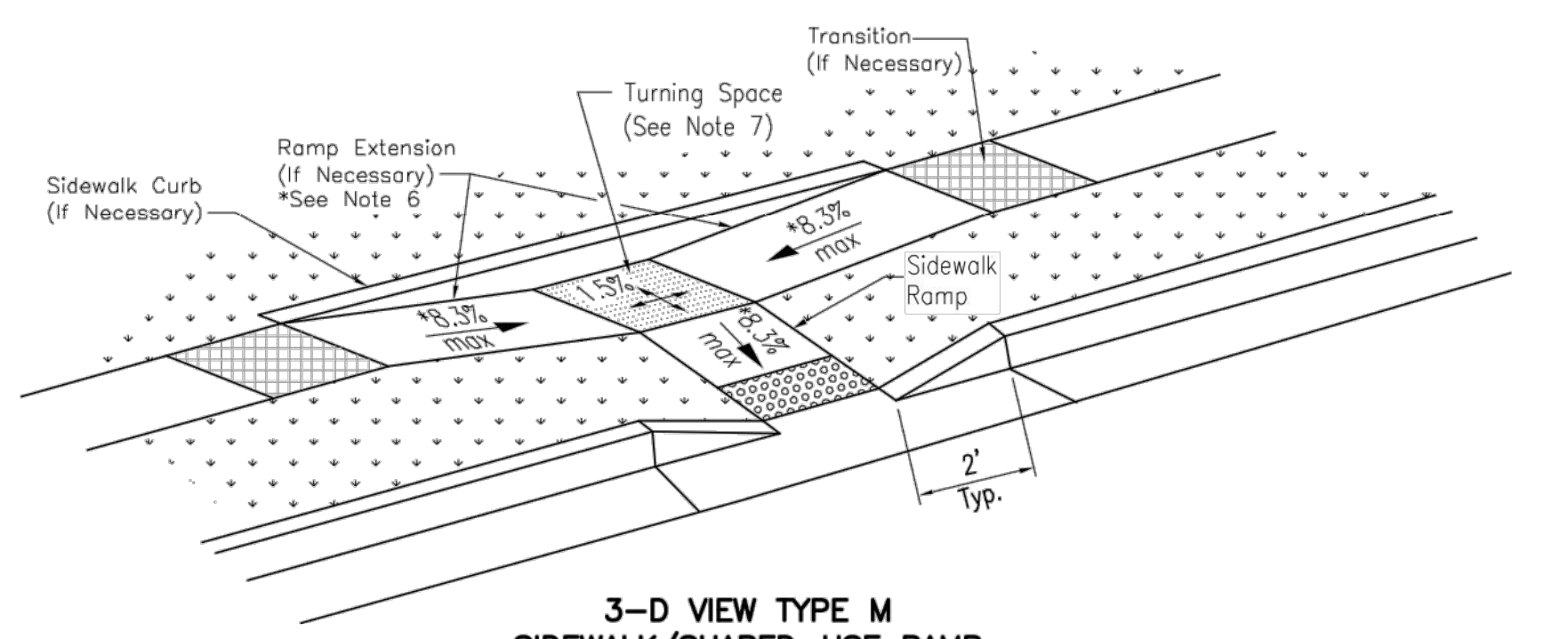
FINAL PLANS
NOT FOR CONSTRUCTION

RYAN B. FLEMING
MO. NO. PE-2002003161

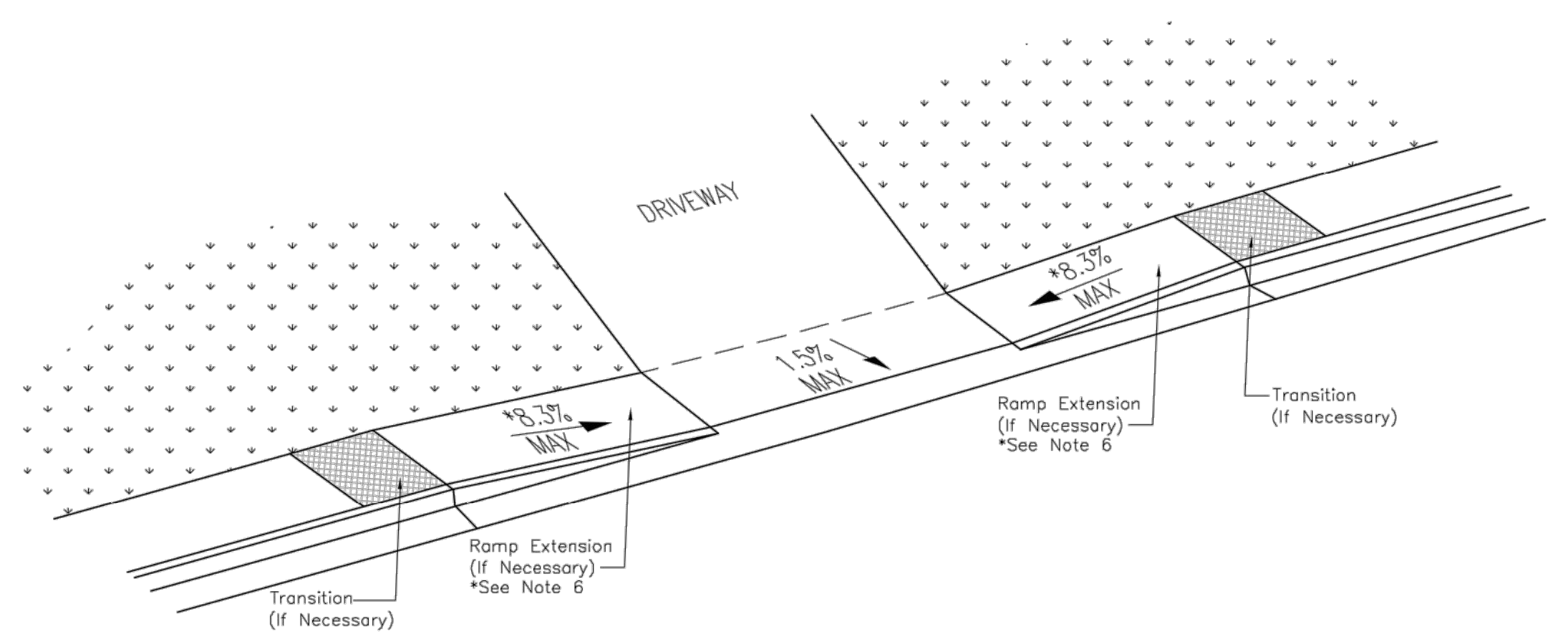
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LEE'S SUMMIT, MISSOURI	2021

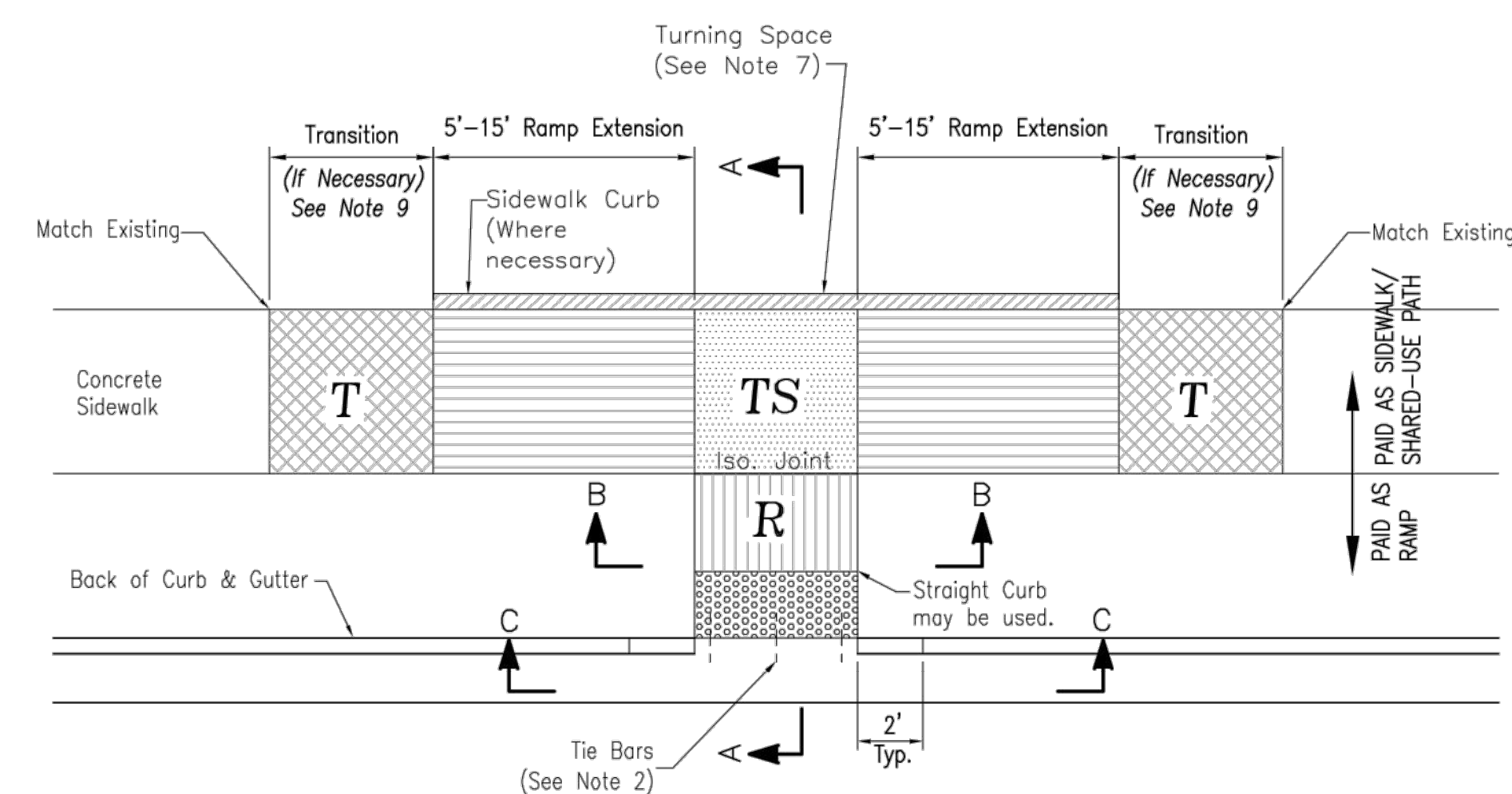
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DRAWN BY:	RPH
CHECKED BY:	RBE
APPROVED BY:	RBE
QA/QC BY:	XXX
PROJECT NO.:	020-0103
DWG NO.:	T_DTL01_0200103
DATE:	2021-02-01



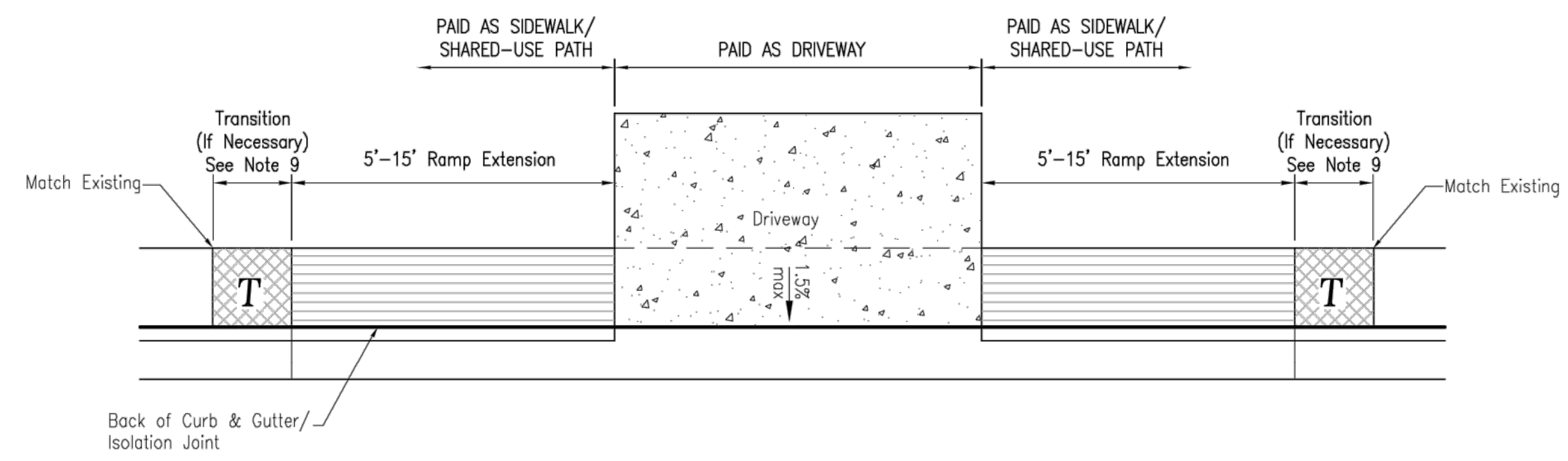
3-D VIEW TYPE M SIDEWALK/SHARED-USE RAMP



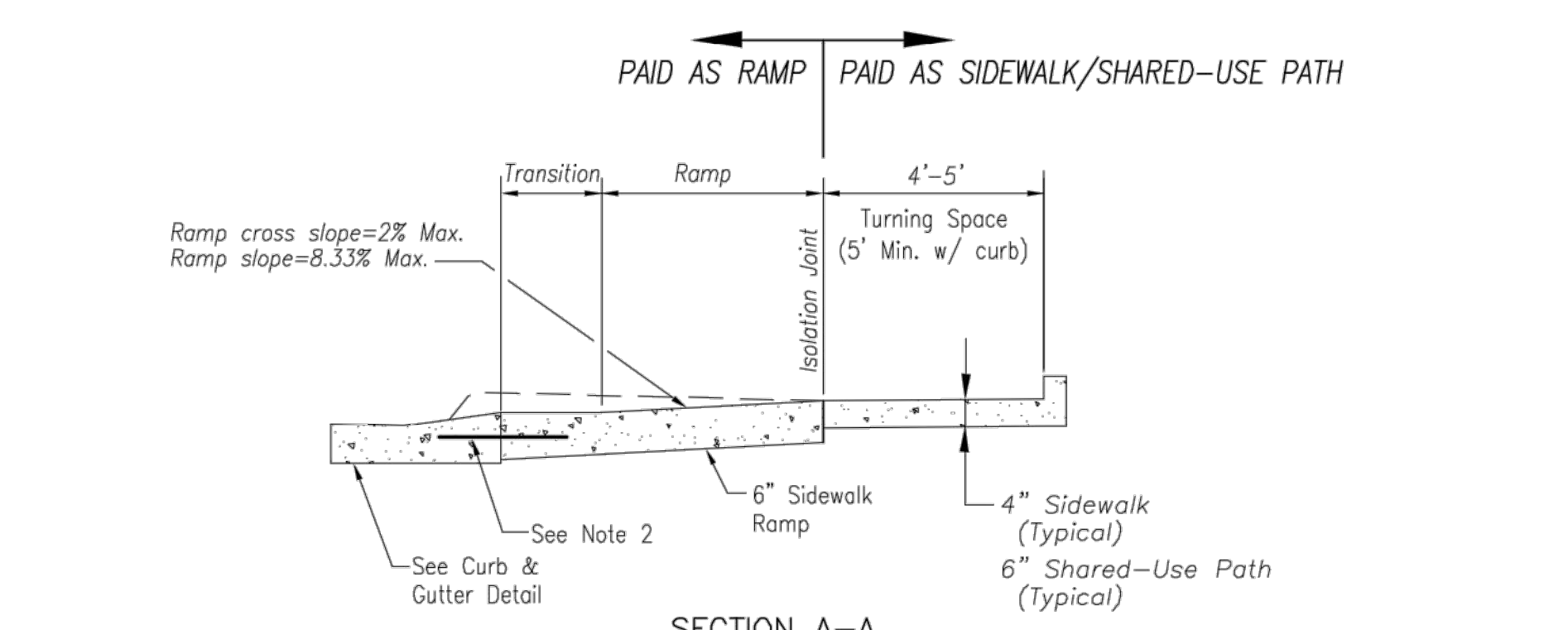
3-D VIEW SIDEWALK/SHARED-USE RAMP AT DRIVEWAY



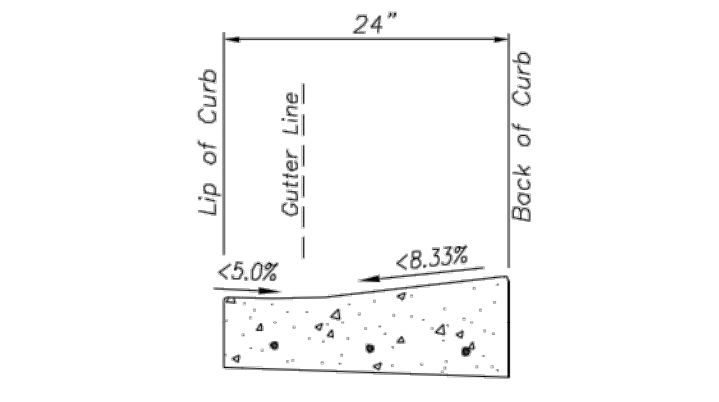
TYPE M SIDEWALK/SHARED-USE RAMP
Not to Scale



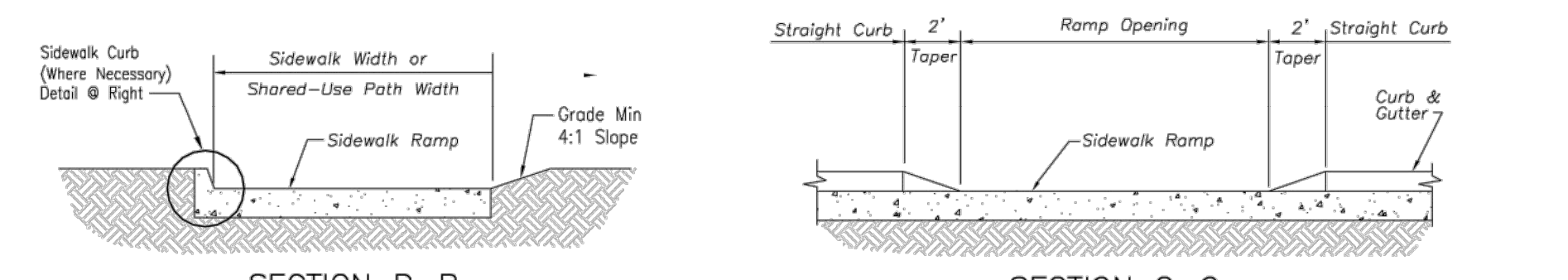
SIDEWALK/SHARED USE RAMP AT DRIVEWAY WITH ADJOINING CURB



SECTION A-A



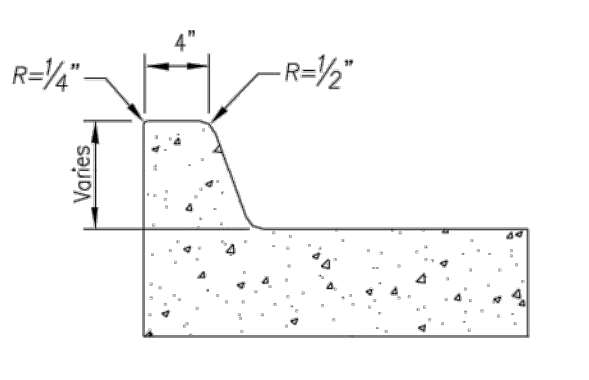
CURB & GUTTER DETAIL AT RAMP
Not to Scale



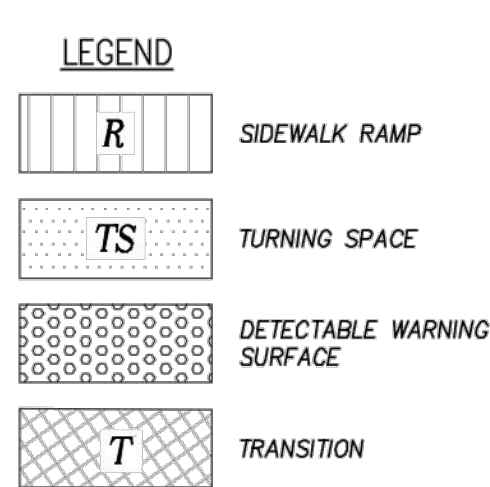
SECTION B-B

SECTION C-C

TYPE M SIDEWALK RAMP
Not to Scale



SIDEWALK CURB DETAIL
Not to Scale



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

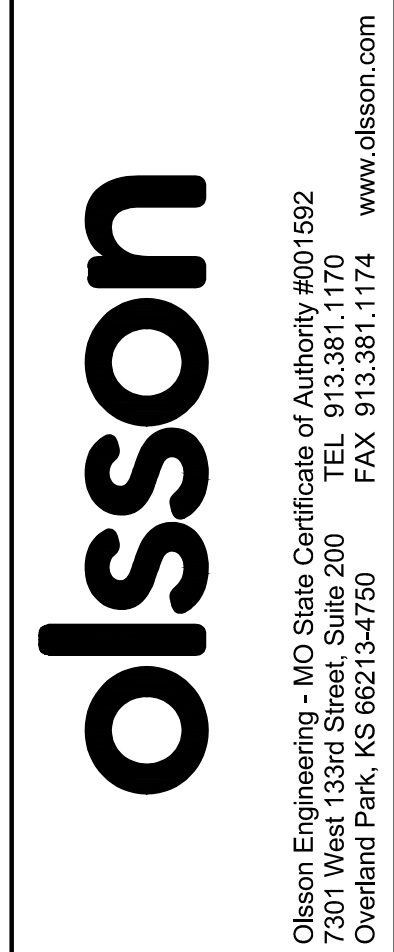
- CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
- USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
- ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL 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 RAMPS 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).

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



Olsson Engineering - MO State Certificate of Authority #001592
7301 West 133rd Street, Suite 200 TEL: 913.381.1170
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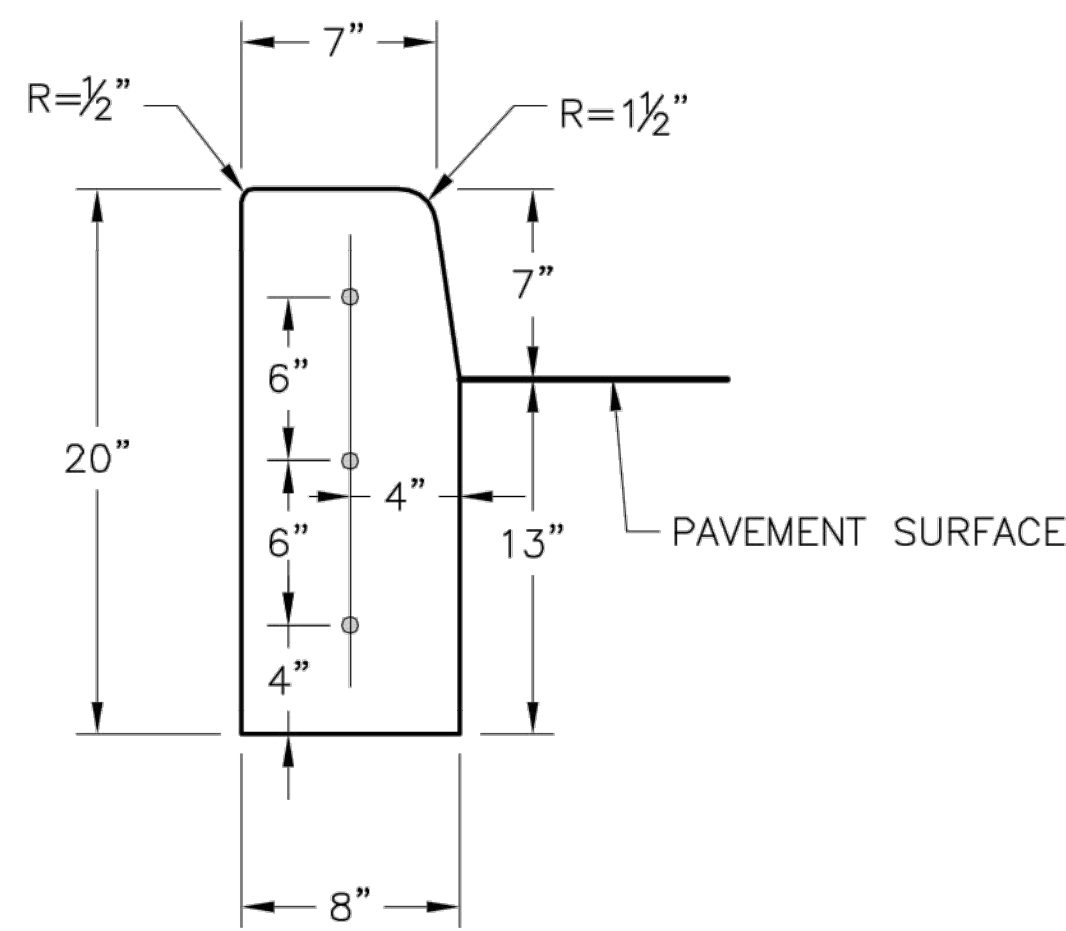
FINAL PLANS
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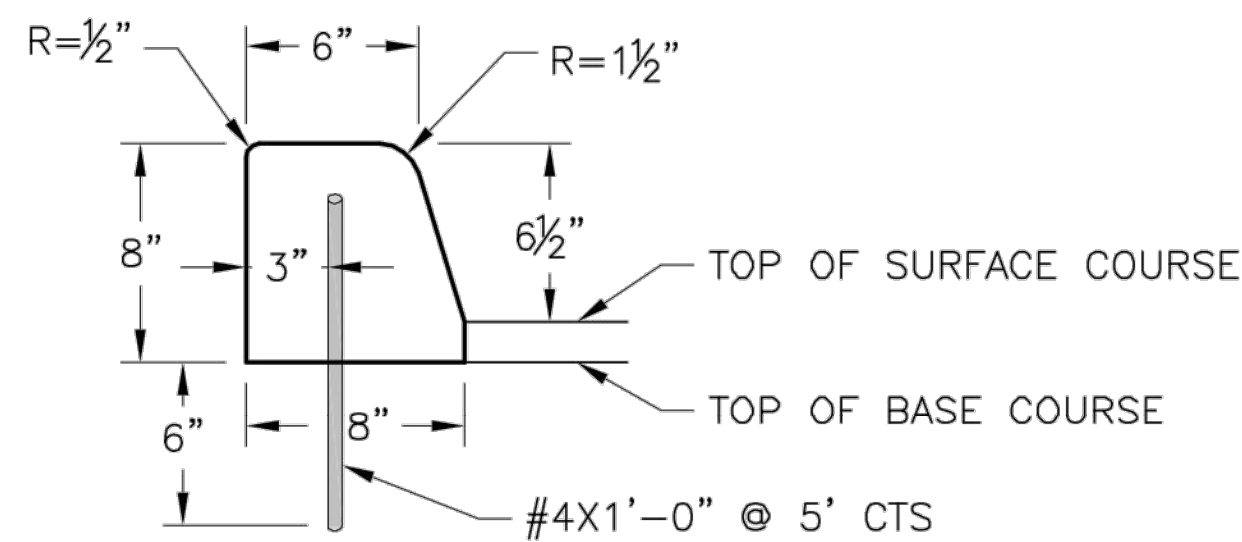
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LEE'S SUMMIT, MISSOURI	

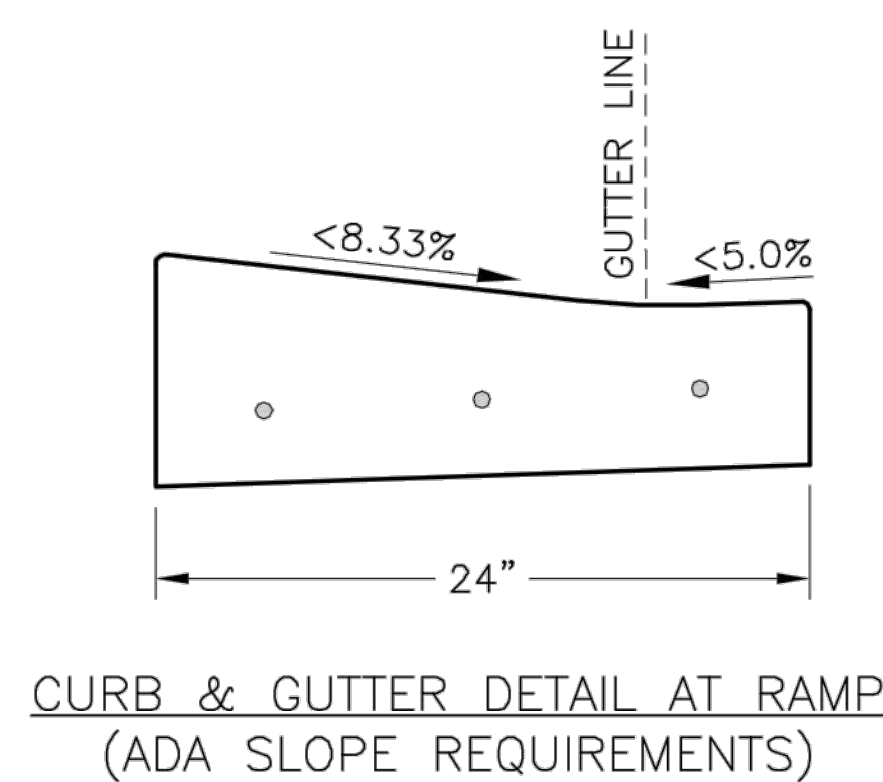
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DATE:	2021-02-01



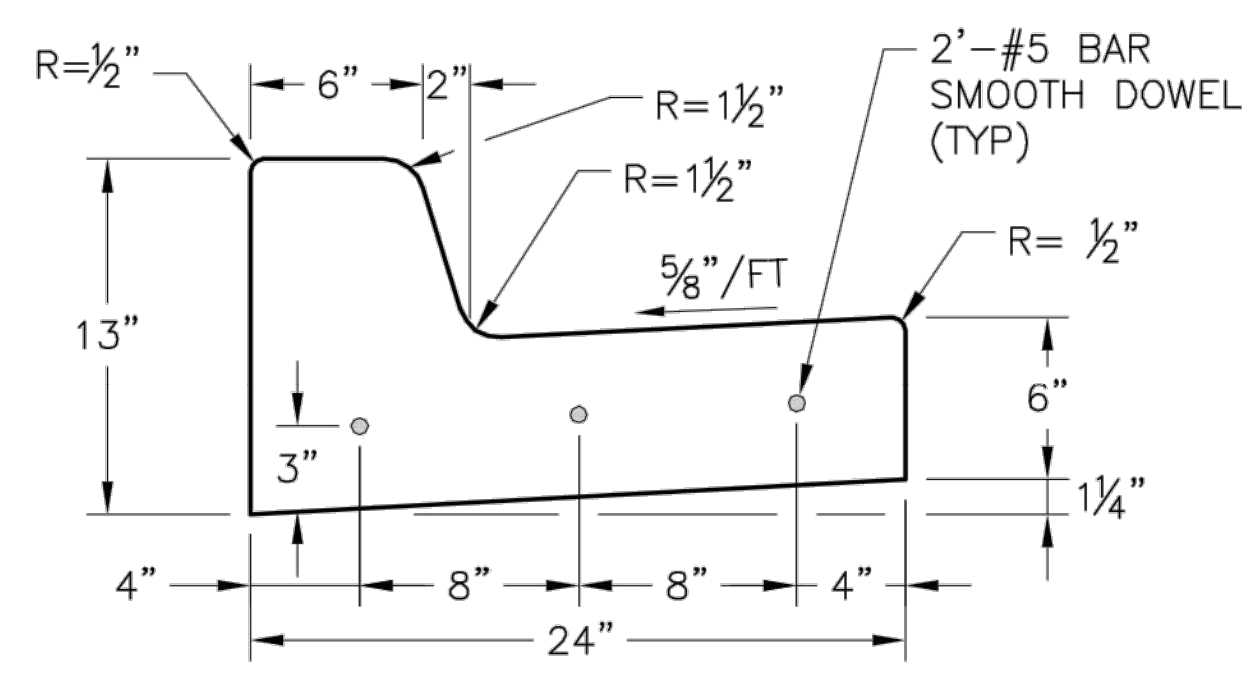
STRAIGHT CURB
(TYPE C-1)



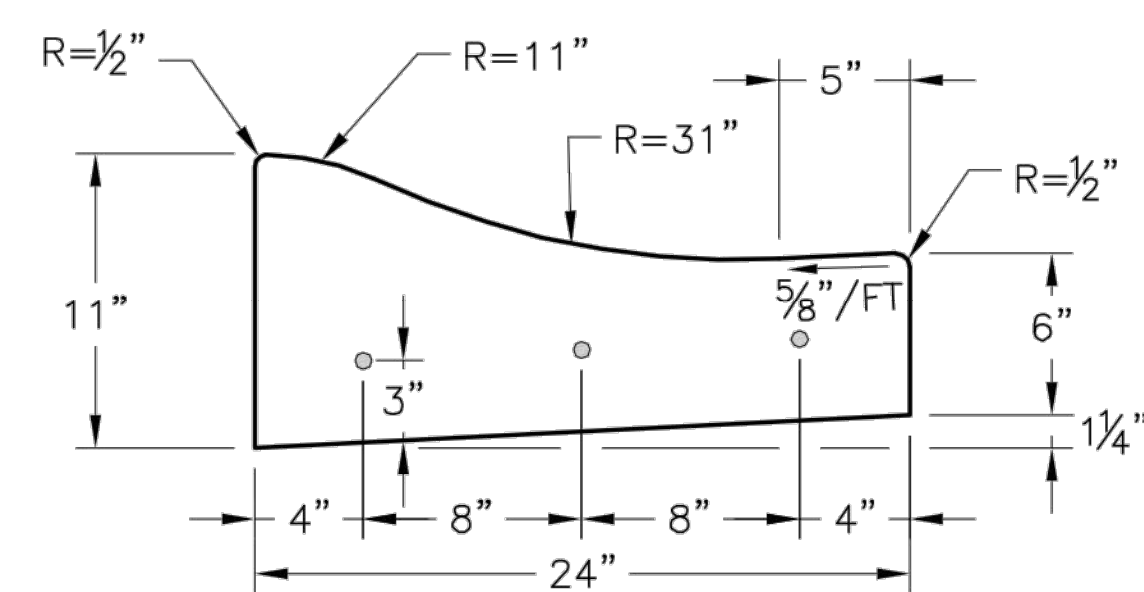
DOWELLED CURB
(TYPE DC)



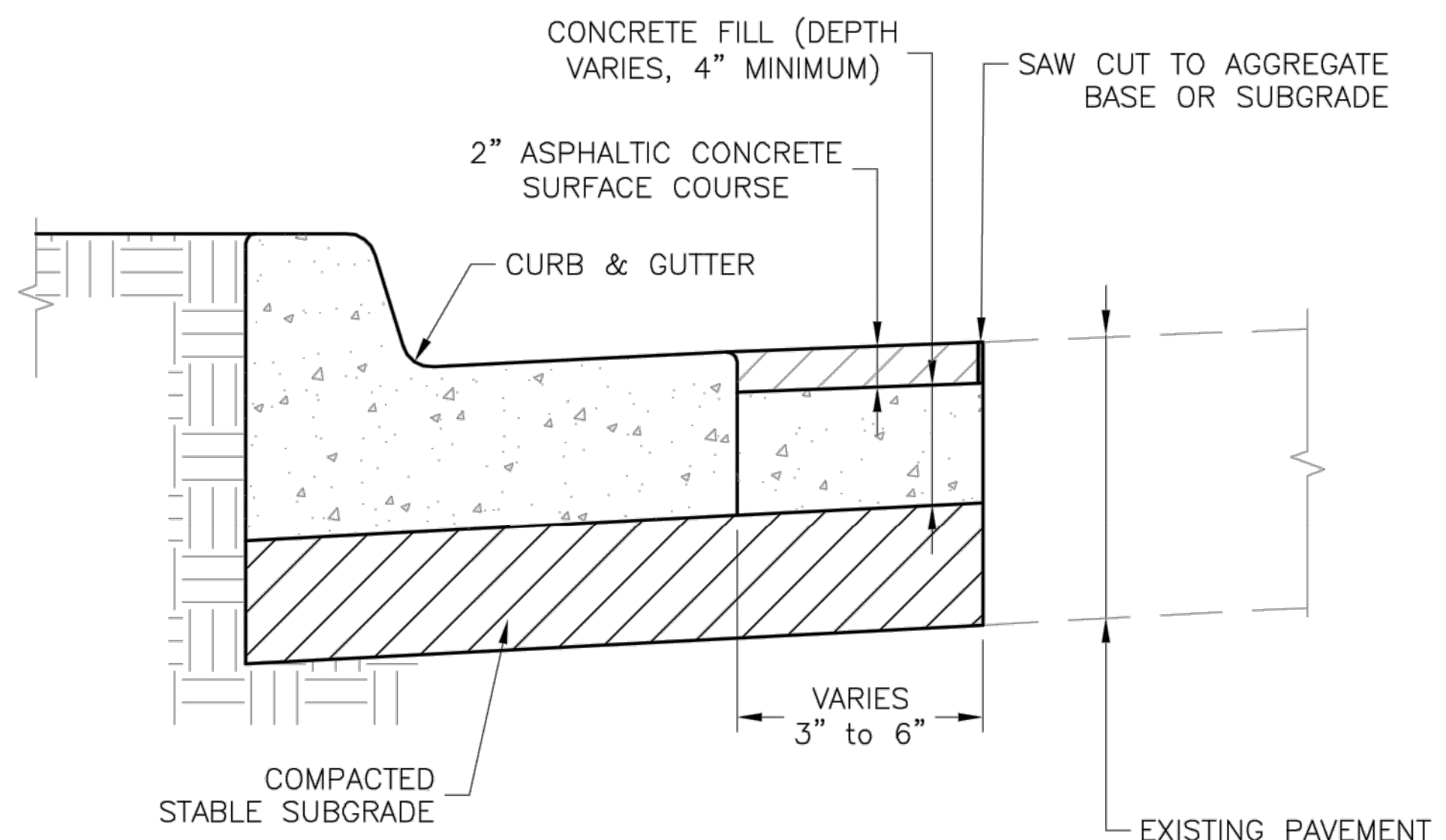
CURB & GUTTER DETAIL AT RAMP
(ADA SLOPE REQUIREMENTS)



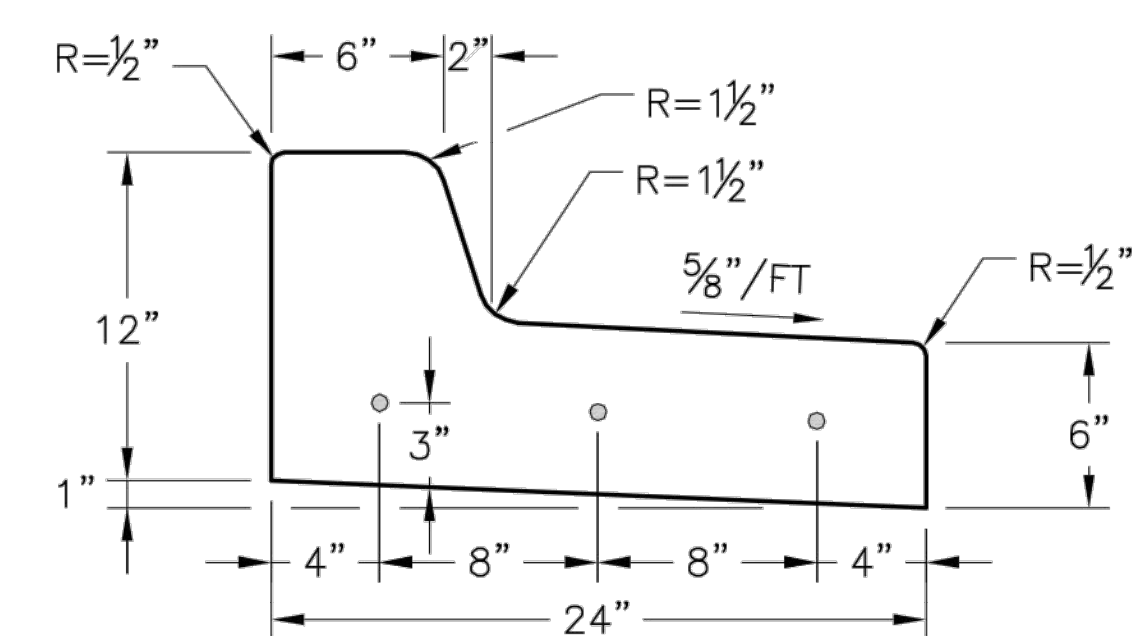
STRAIGHT BACK CURB & GUTTER
(TYPE CG-1)



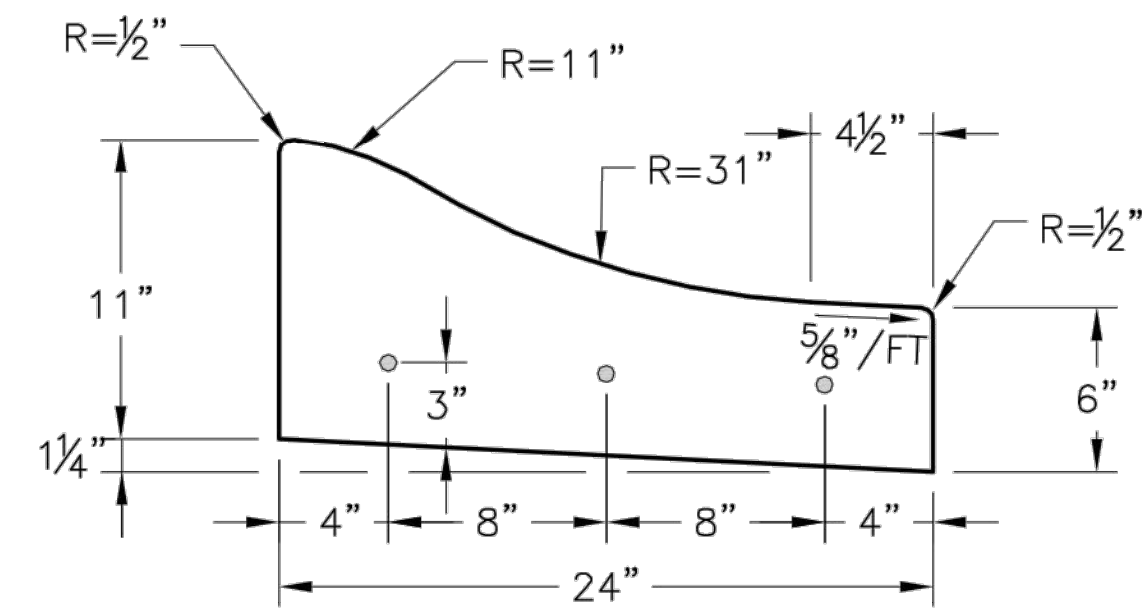
ROLL BACK CURB & GUTTER
(TYPE CG-2)



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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FINAL PLANS
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RYAN B. FLEMING
 MO. NO. PE-2002003161

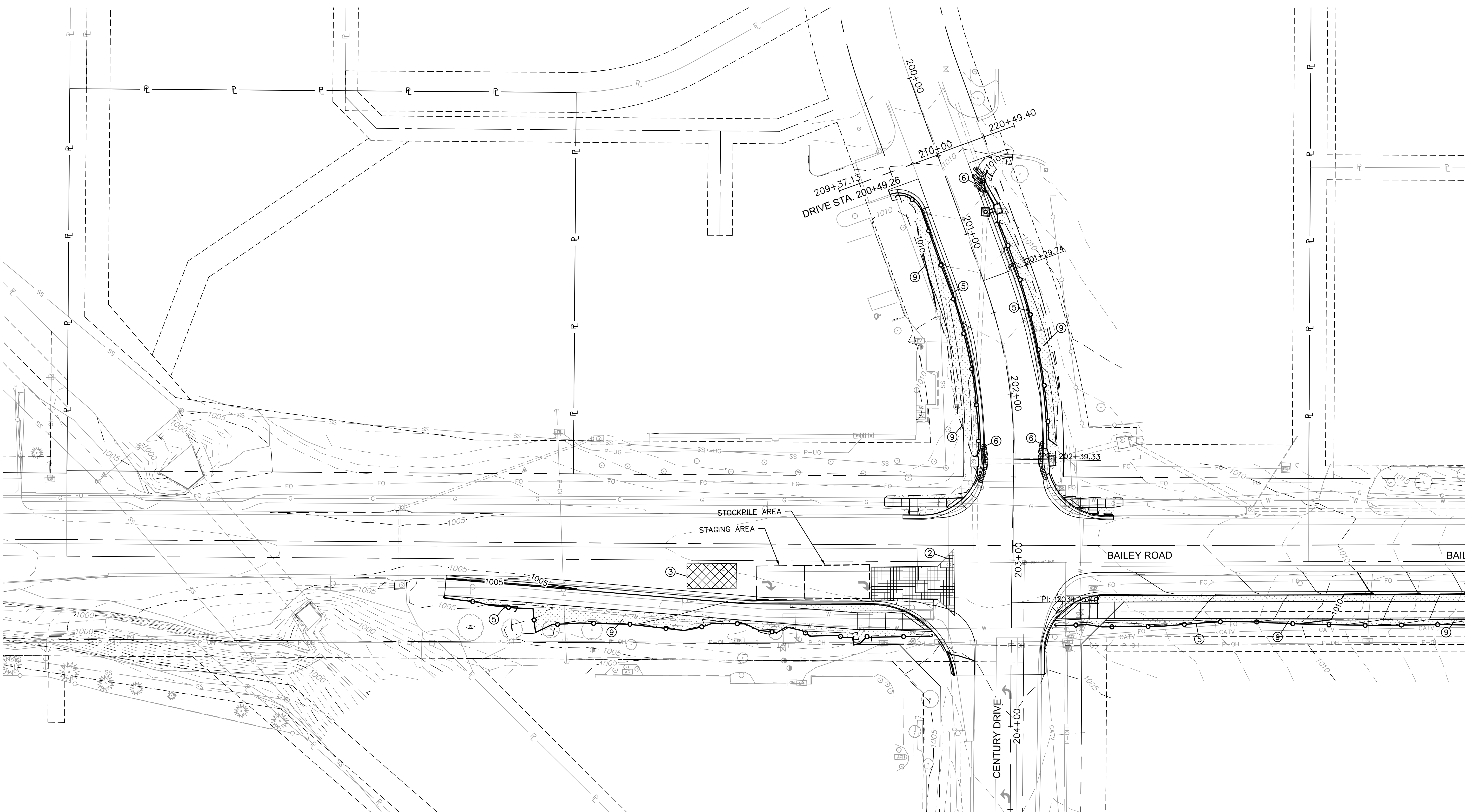
REV. NO.	DATE	REVISIONS DESCRIPTION	BY

REVISIONS

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

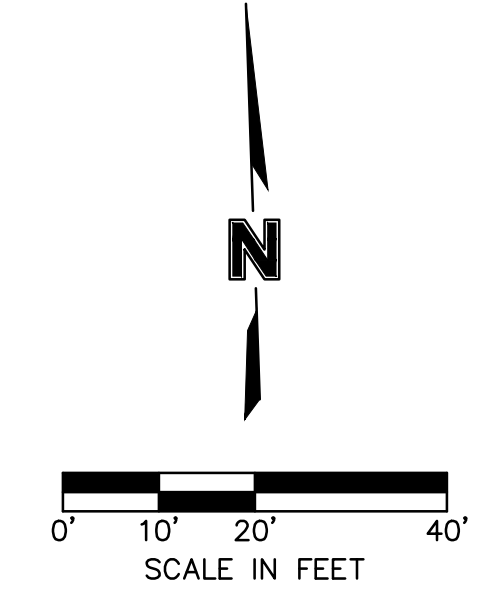
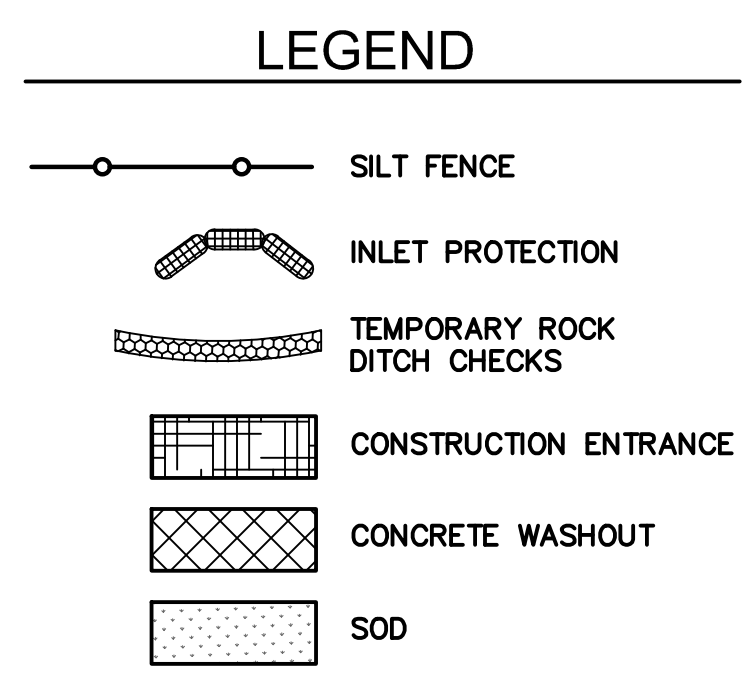
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CHECKED BY:	RBE
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PROJECT NO.:	020-0103
DWG NO.:	T_DTL01_0200103
DATE:	2021-02-01

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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	
	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
	8	CURB INLET/AREA INLET PROTECTION	IV	GRAVEL FILTER BAGS
III - PAVING	9	SOD	N/A	
IV - STABILIZE SITE				



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RYAN B. FLEMING
MO. NO. PE-2002003161

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EROSION CONTROL PLAN

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

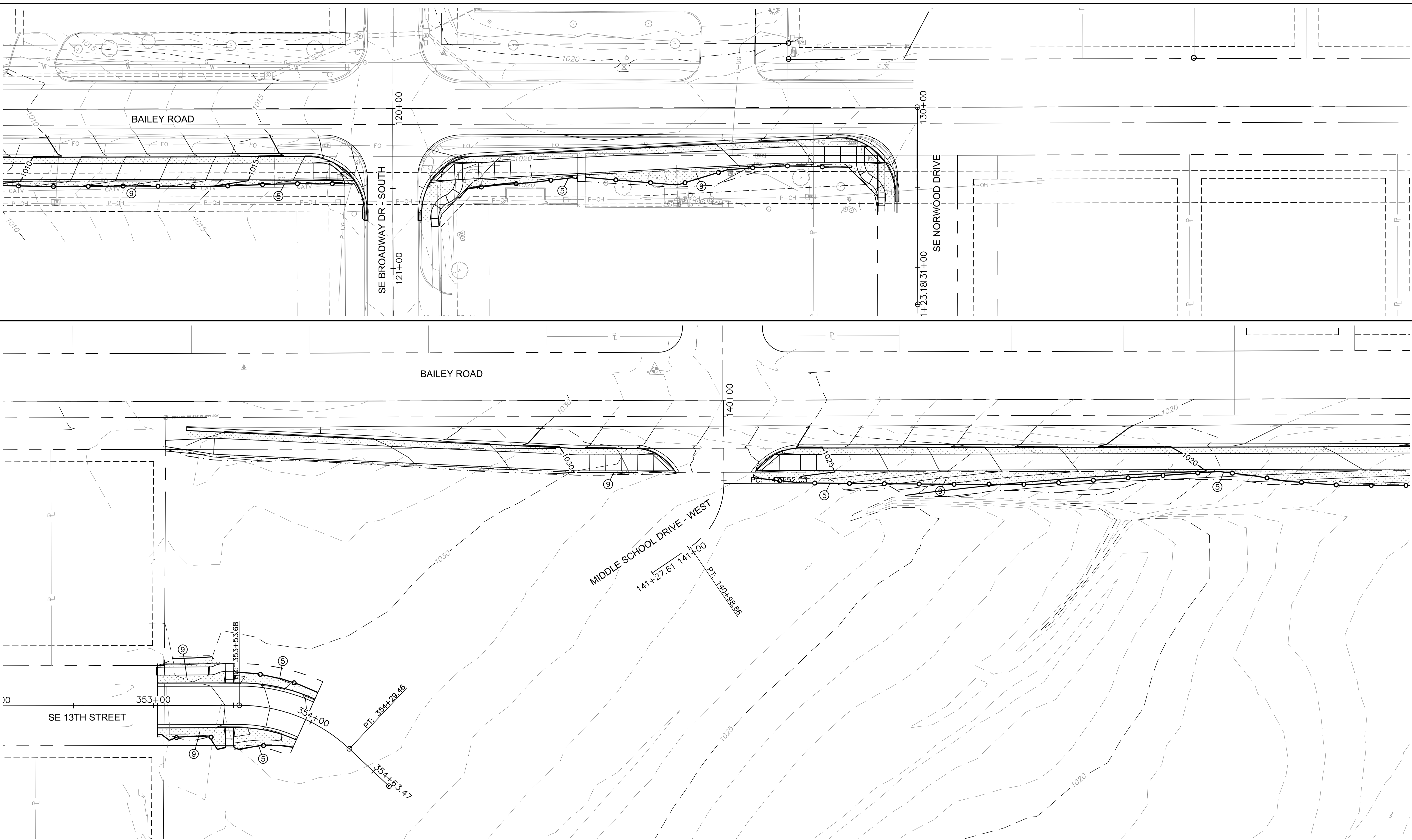
LEE'S SUMMIT, MISSOURI

2021

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 DWG NO.: T_ERC01_0200103
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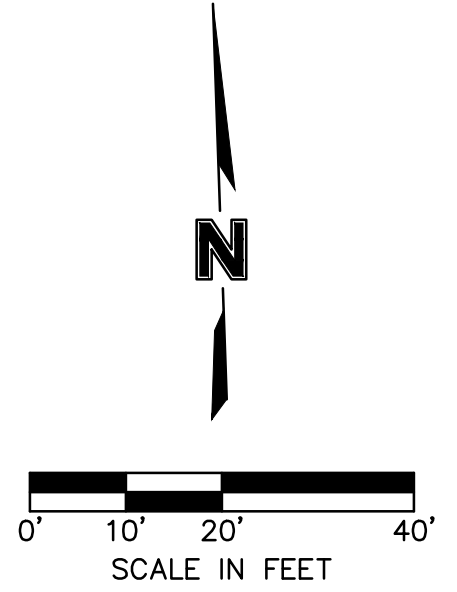
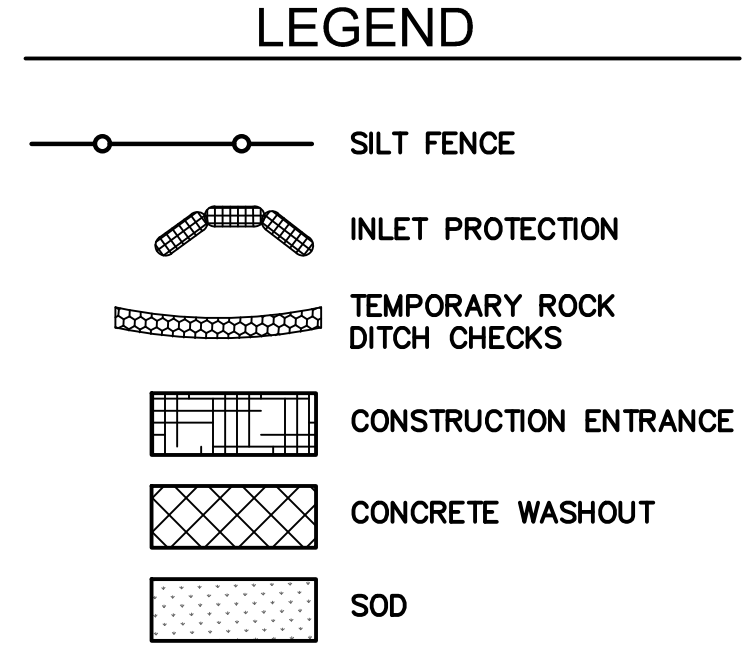
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EROSION AND SEDIMENT CONTROL STAGING CHART

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III - PAVING	9	SOD	N/A	



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EROSION CONTROL PLAN

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

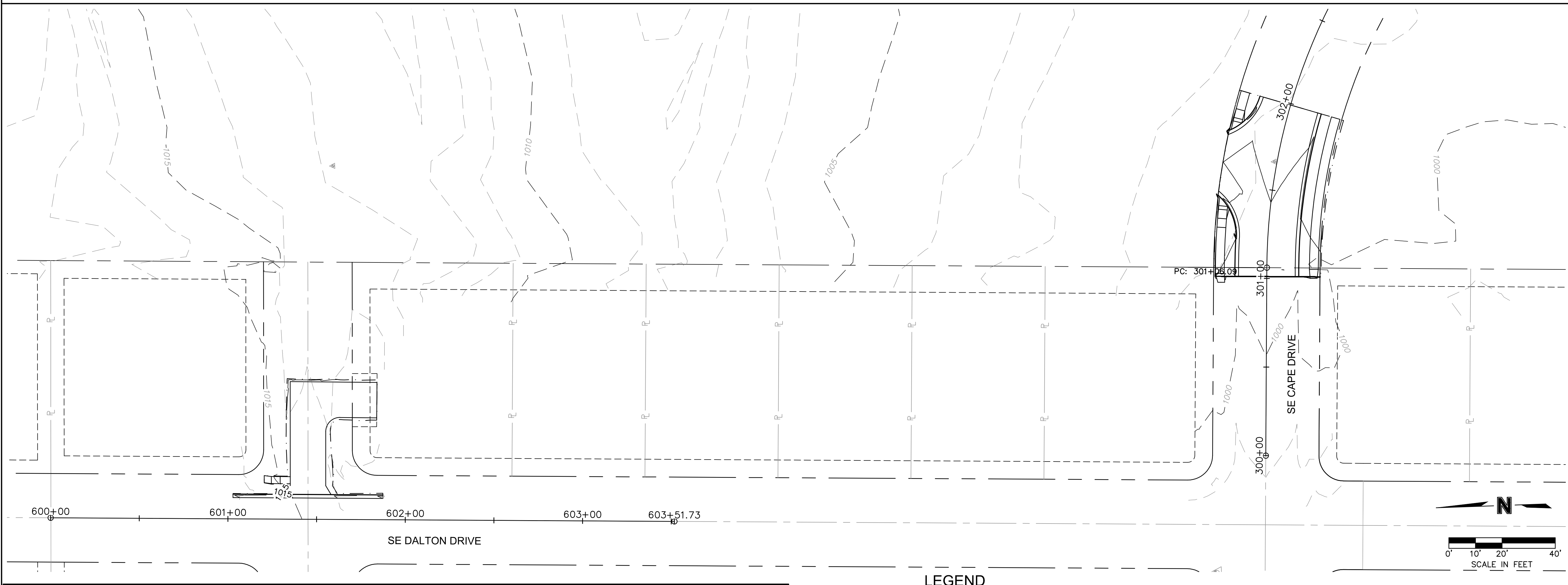
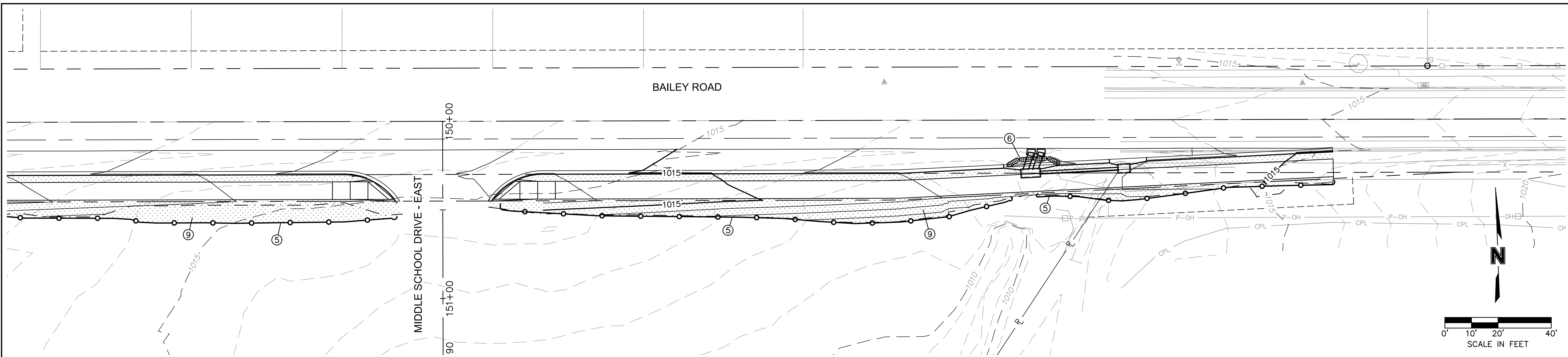
LEE'S SUMMIT, MISSOURI

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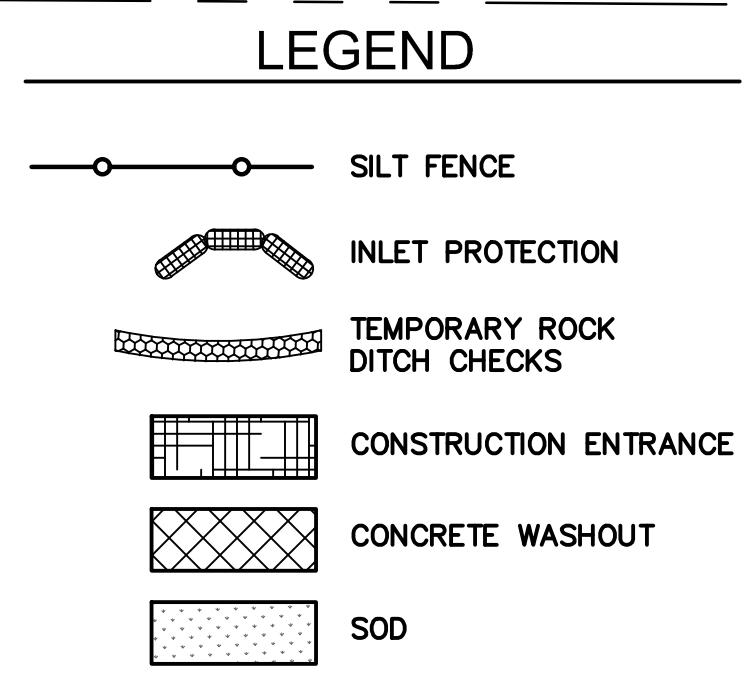
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EROSION AND SEDIMENT CONTROL STAGING CHART

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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

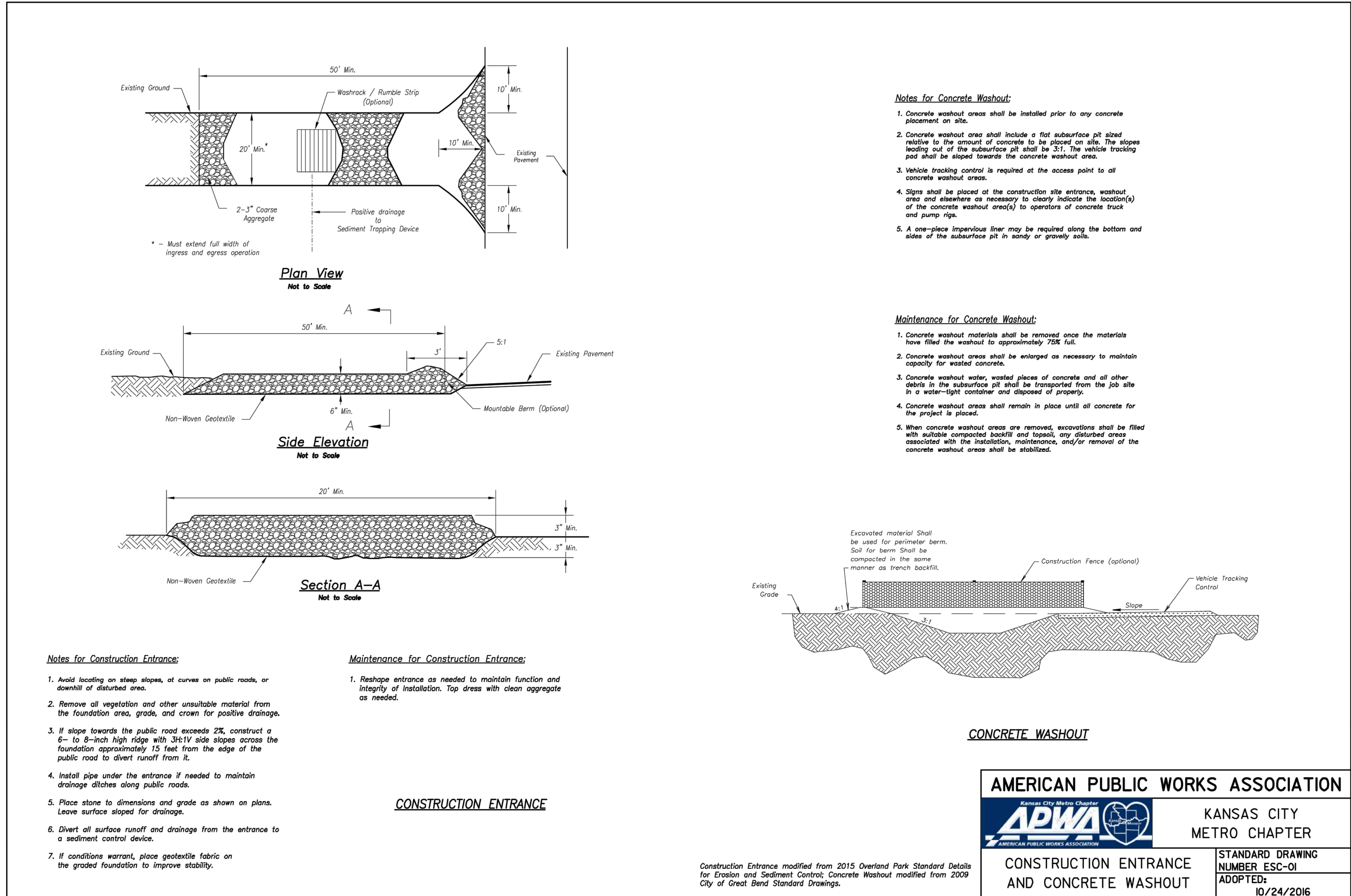
LEE'S SUMMIT, MISSOURI

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Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
3. If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

CONSTRUCTION ENTRANCE

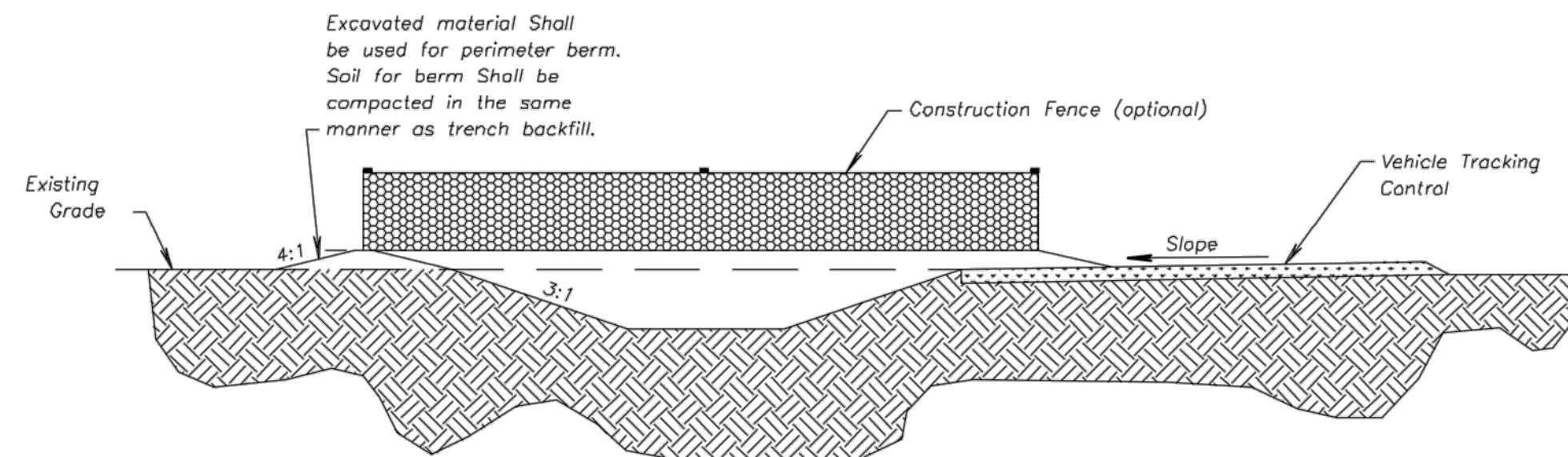
Notes for Concrete Washout:

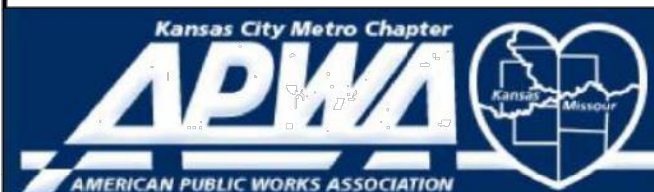
1. Concrete washout areas shall be installed prior to any concrete placement on site.
2. Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
3. Vehicle tracking control is required at the access point to all concrete washout areas.
4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

Maintenance for Concrete Washout:

1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.
3. Concrete washout water, wasted pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water-tight container and disposed of properly.
4. Concrete washout areas shall remain in place until all concrete for the project is placed.
5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.

CONCRETE WASHOUT



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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FINAL PLANS
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EROSION CONTROL
 DETAILS

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

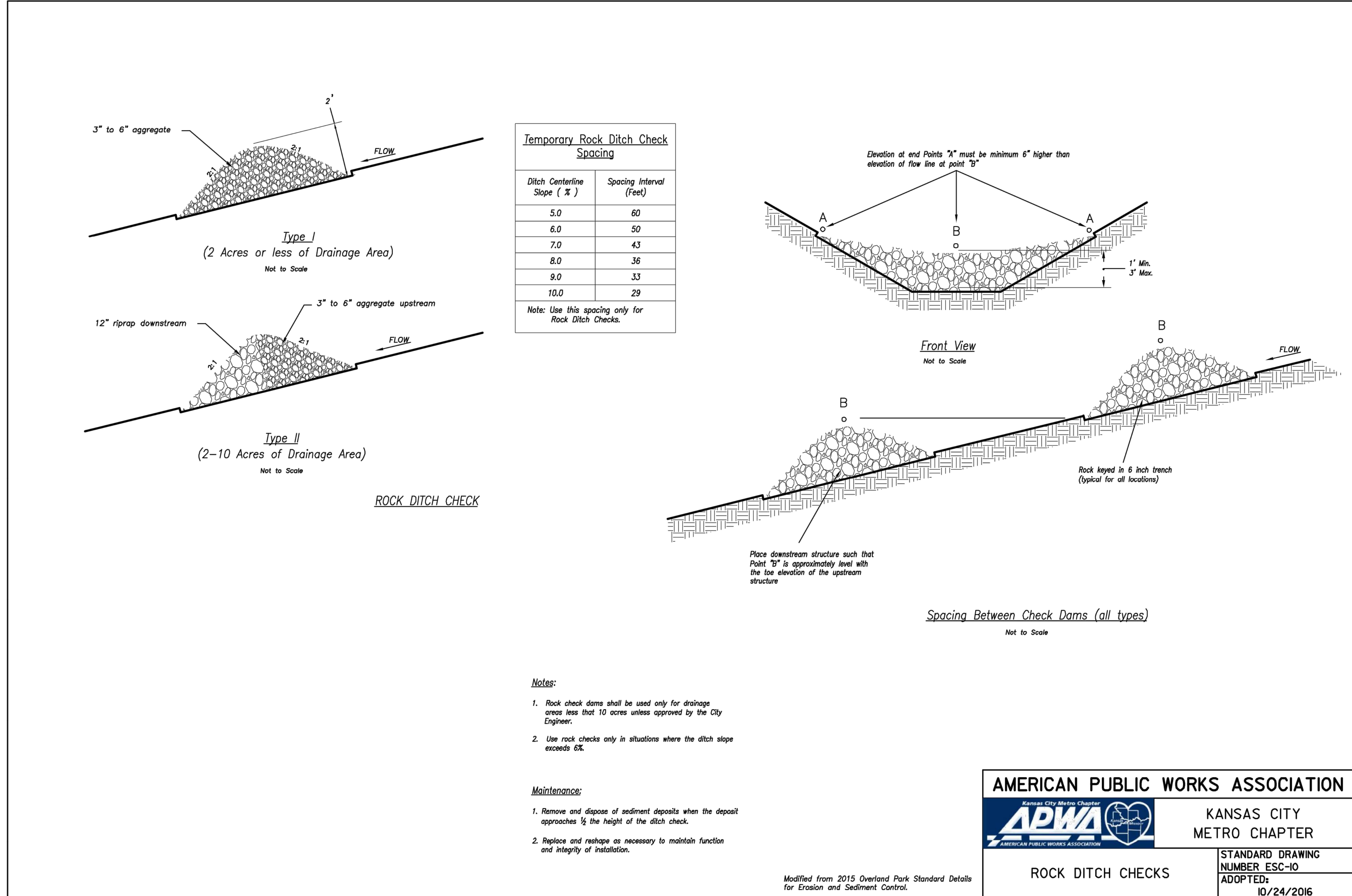
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LEE'S SUMMIT, MISSOURI


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 Kansas City Metro Chapter



KANSAS CITY METRO CHAPTER

ROCK DITCH CHECKS

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

FINAL PLANS
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 MO. NO. PE-2002003161

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EROSION CONTROL DETAILS

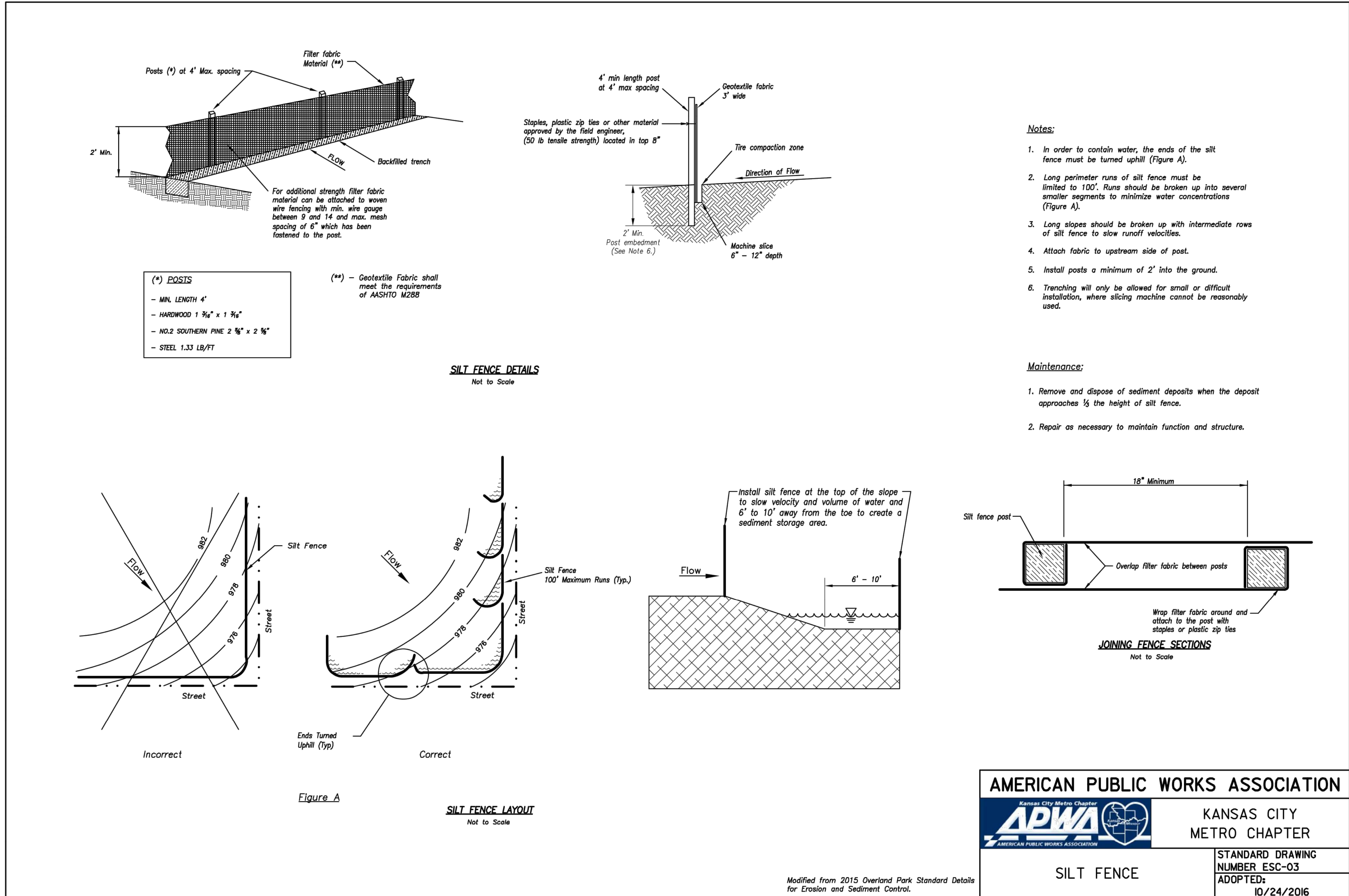
LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2021

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EROSION CONTROL DETAILS

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LEE'S SUMMIT, MISSOURI

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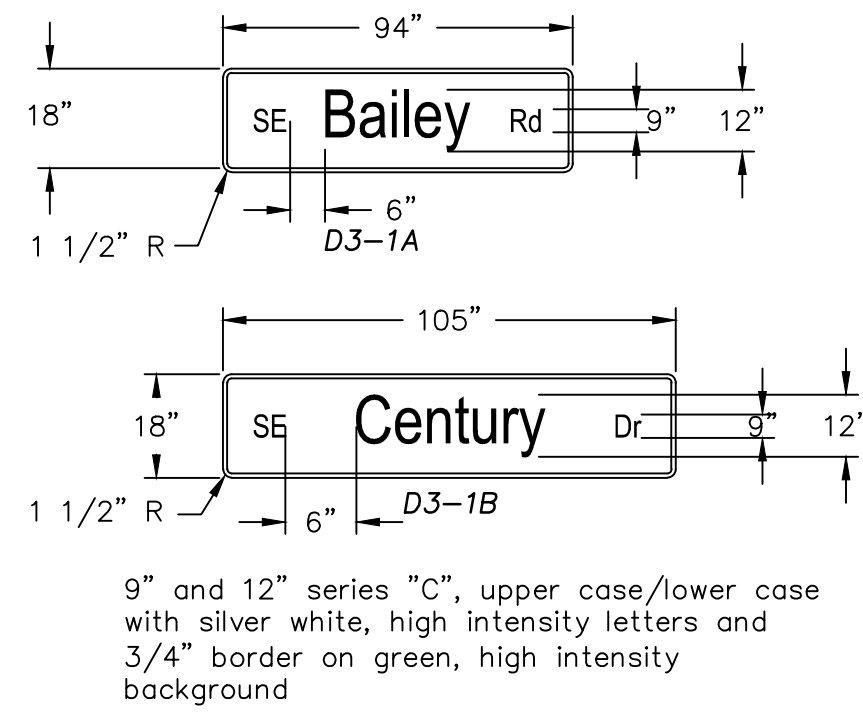
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GENERAL NOTES:

- 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.

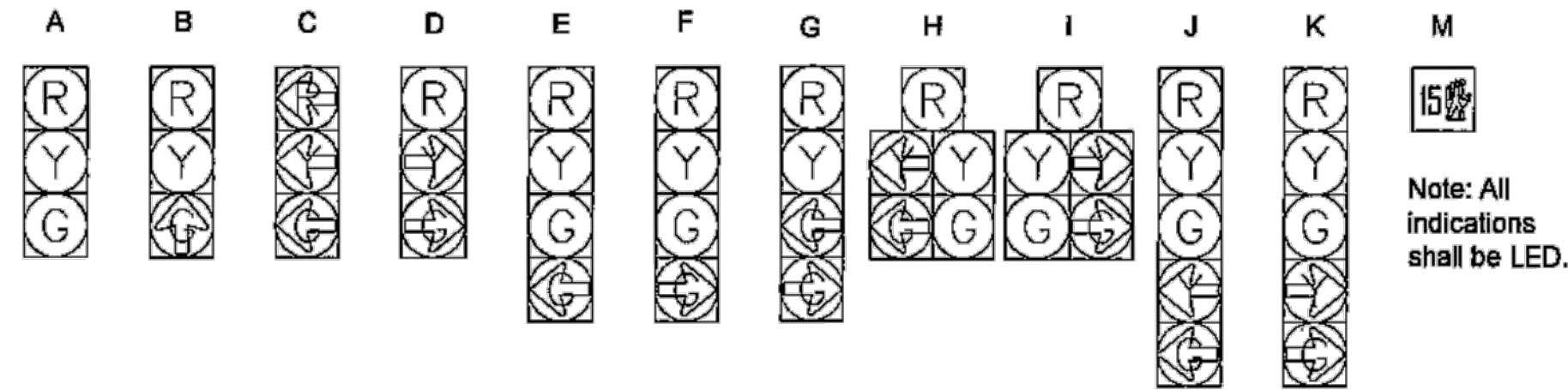
STREET NAME SIGN DETAIL



9" and 12" series "C", upper case/lower case with silver white, high intensity letters and 3/4" border on green, high intensity background

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



Note: All indications shall be LED.

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.

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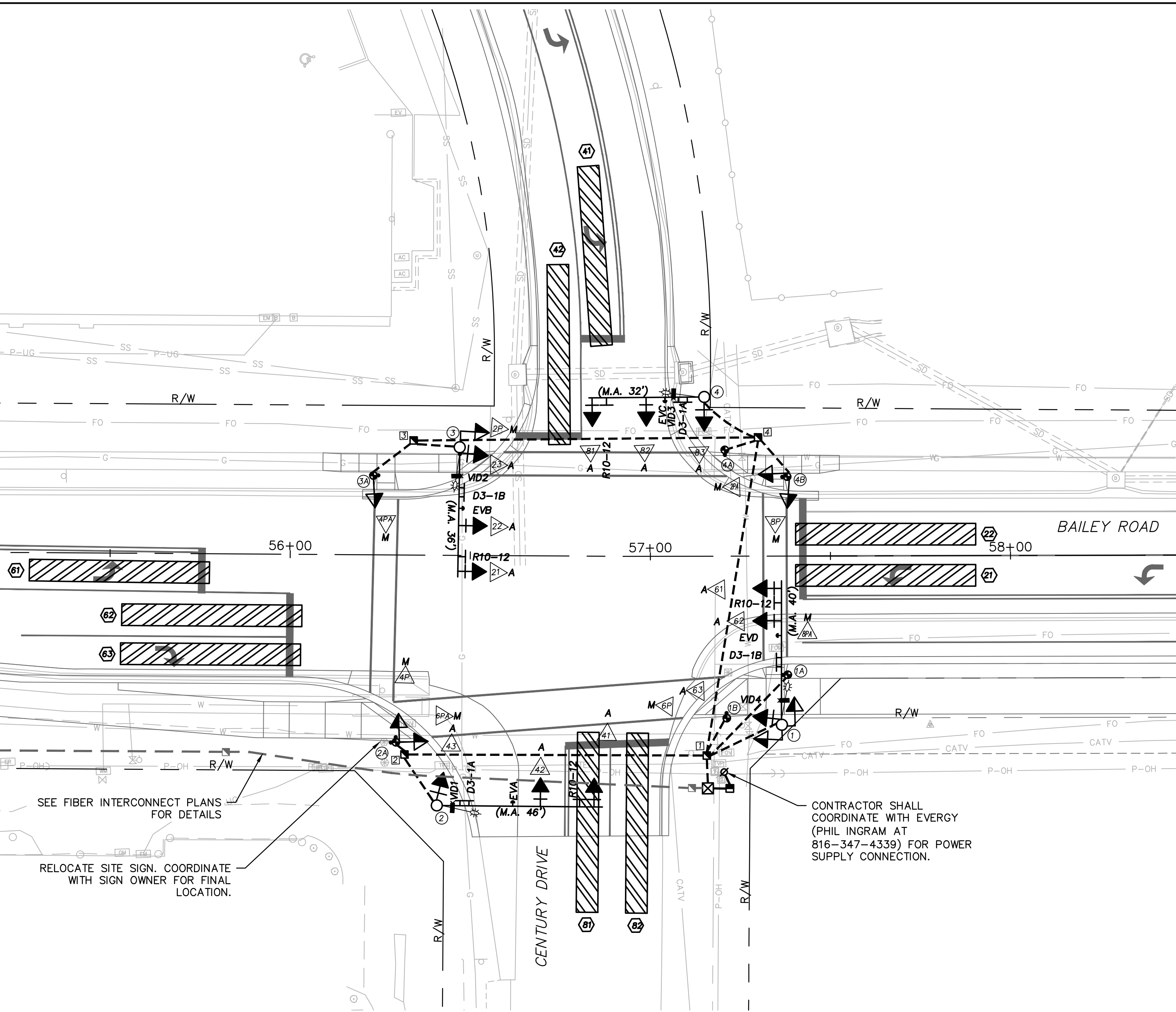
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TRAFFIC SIGNAL PLAN GENERAL NOTES & LEGEND	2021
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LEE'S SUMMIT, MISSOURI	

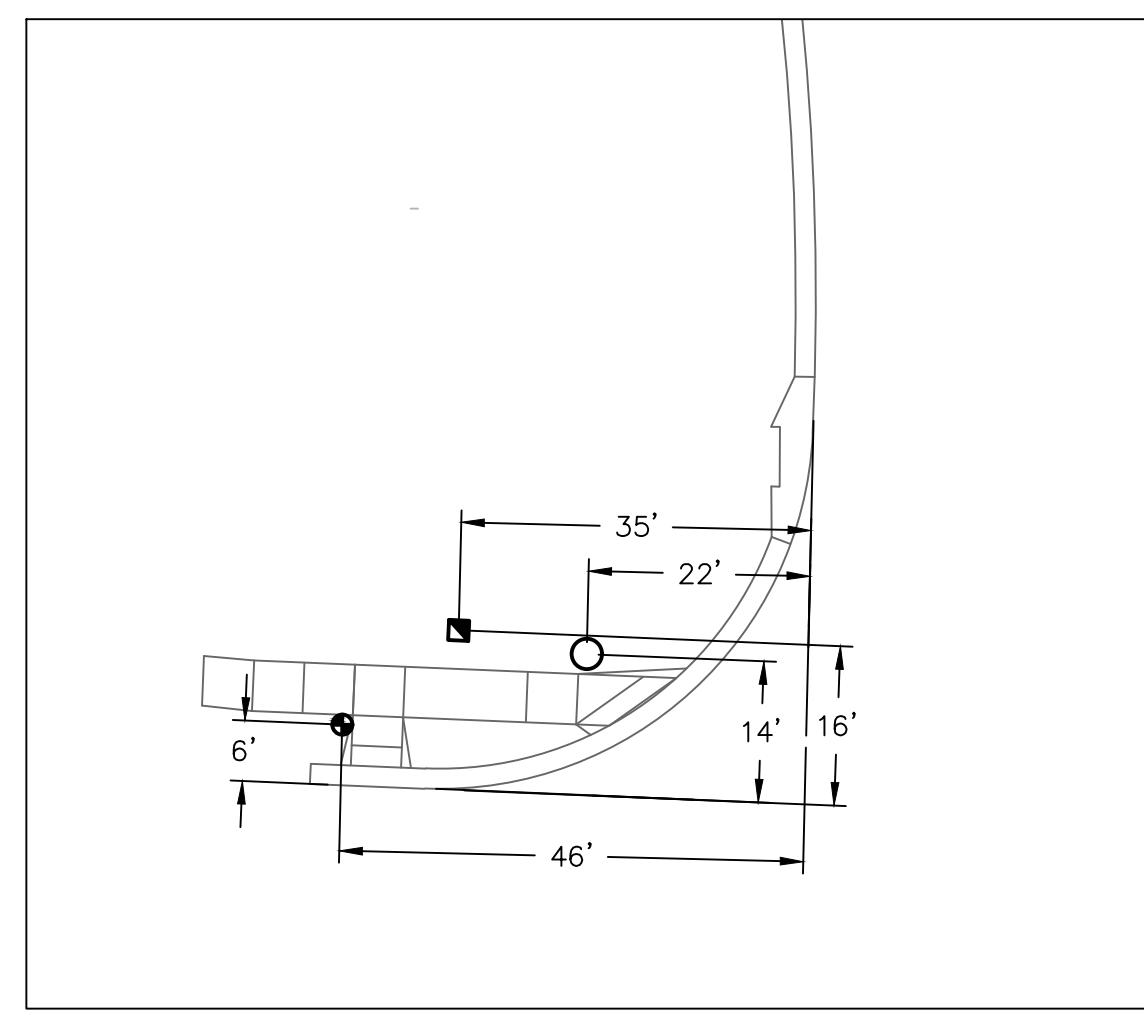
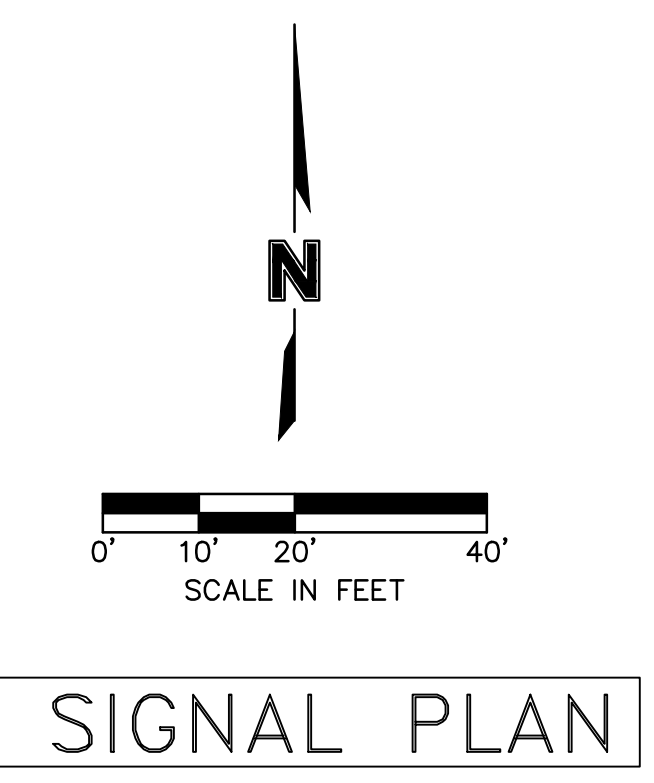
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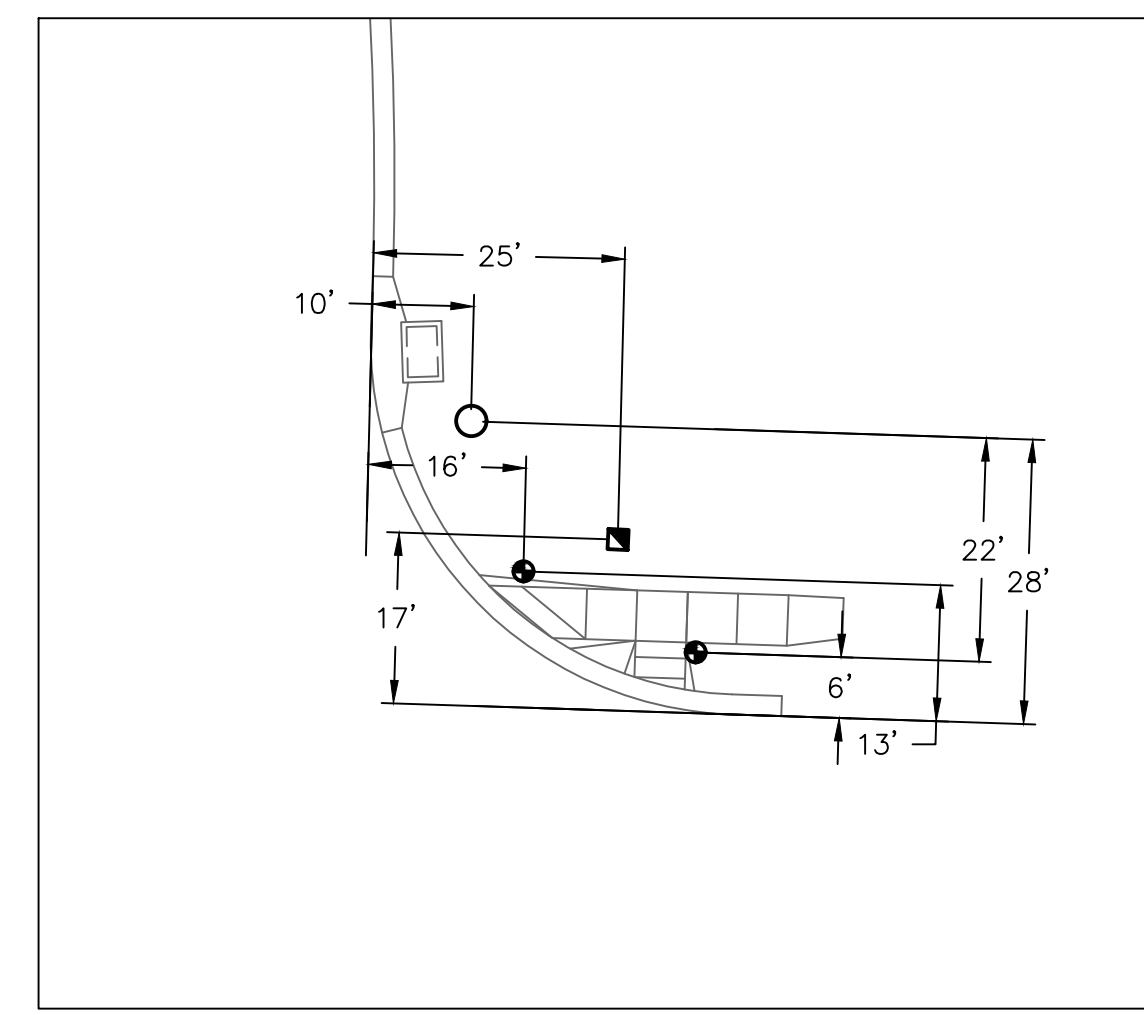


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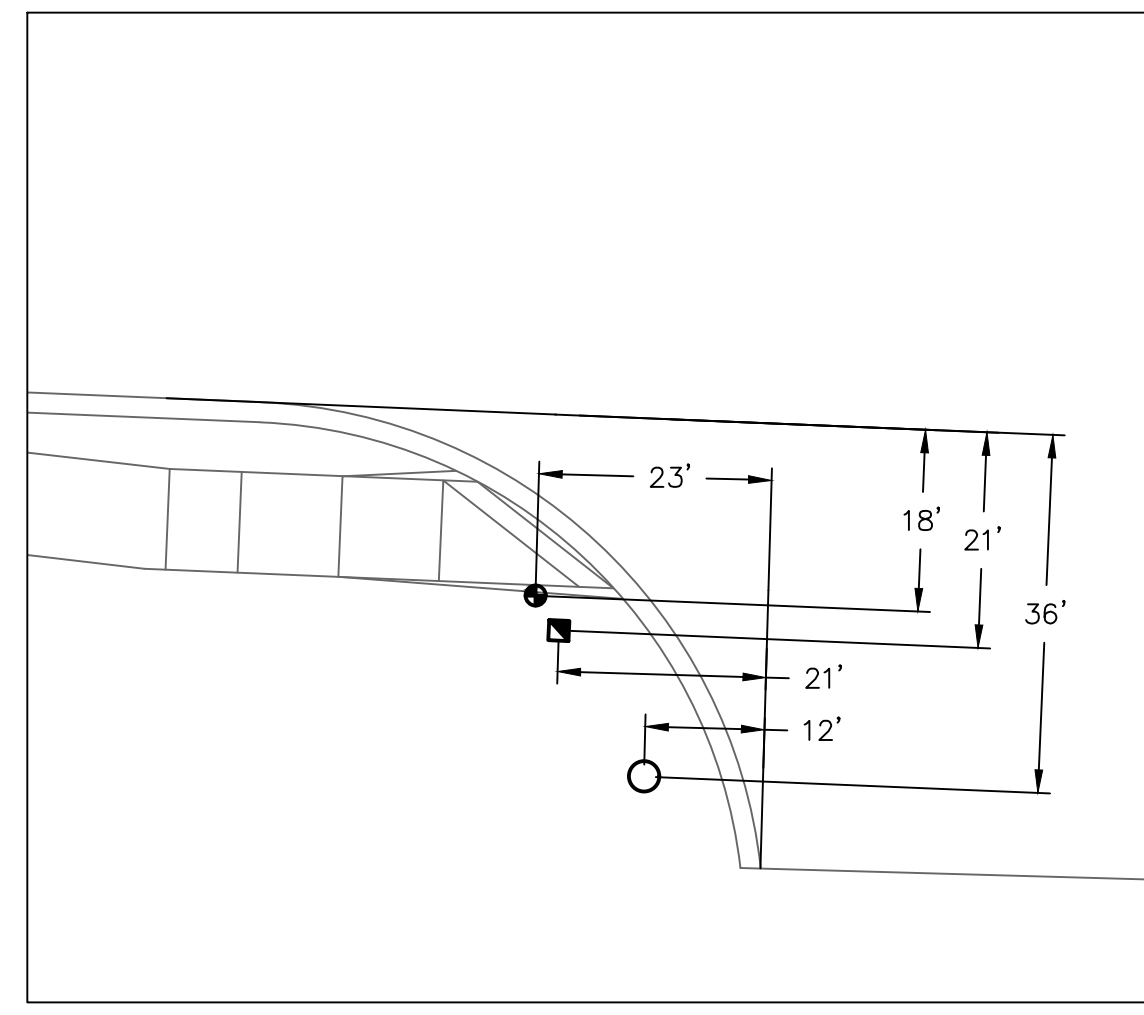
- Existing underground (U/G), overhead (OH) utilities and drainage structures have been plotted from available information and therefore, their locations must be considered approximate only. It is the responsibility of the individual Contractors to exactly locate each utility before actual construction.
- All construction methods and traffic signal equipment shall conform to the latest edition of the City of Lee's Summit Standard Specifications and Approved Products List.
- Contractor shall stake the location of all traffic signal poles, conduit, controllers, service boxes and junction boxes to be installed. The Project Engineer shall inspect the staking prior to any excavation and/or construction. Minor relocation of equipment to avoid conflicts may be allowed with the approval of the Project Engineer.
- All existing curb and gutter, sidewalk, pavement, drainage structures, or ground damaged during the traffic signal construction shall be replaced to match existing. This work will be considered SUBSIDIARY to the "Traffic Signal Installation" bid item.
- Contractor shall coordinate signal turn-on with the City of Lee's Summit.
- All traffic signal indications shall be L.E.D. (Light Emitting Diode.)
- Contractor to verify location of power source with Evergy before construction.



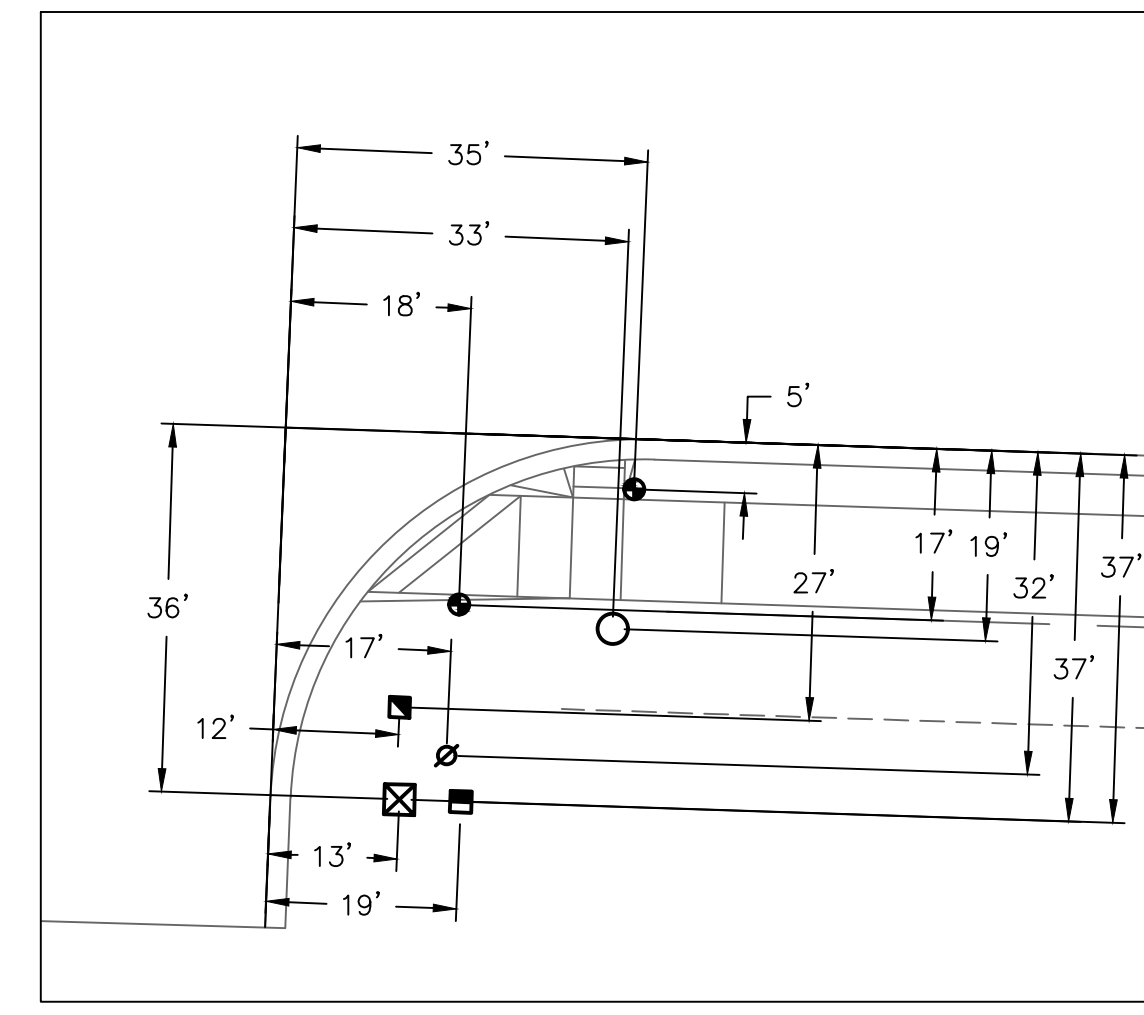
NW CORNER



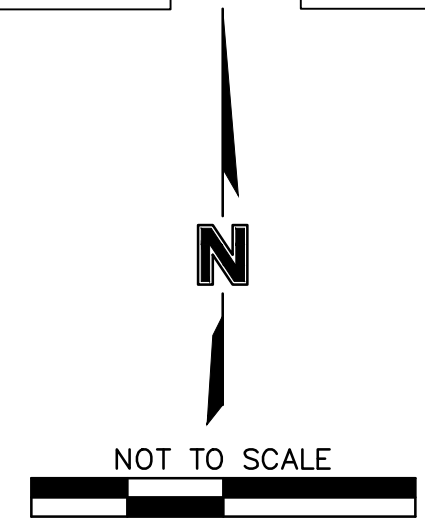
NE CORNER



SW CORNER



SE CORNER

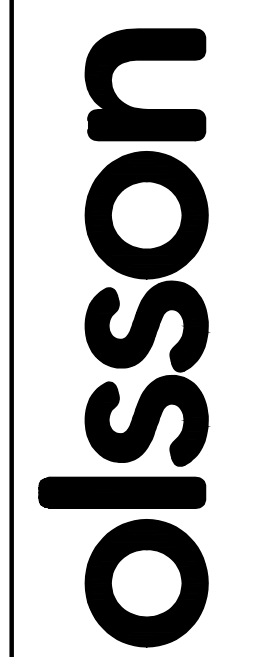


NEW EQUIPMENT TO BACK-OF-CURB DISTANCES

POLE, PULL BOX, POWER METER, AND CONTROLLER LOCATION

	STATION	O/S
①	57+36.40	46.9' RT.
⑩	57+38.08	33.0' RT.
⑩	57+21.09	45.0' RT.
①	57+15.56	55.4' RT.
②	56+41.12	69.5' RT.
②	56+29.64	52.1' RT.
②	56+32.08	55.4' RT.
③	56+46.85	30.0' LT.

	STATION	O/S
⑩	56+22.93	22.0' LT.
③	56+34.08	31.8' LT.
④	57+15.03	44.2' LT.
④	57+20.71	29.5' LT.
④	57+38.03	22.0' LT.
④	57+29.98	33.0' LT.
⊗	57+15.83	64.5' RT.
■	57+21.93	64.5' RT.
∅	57+20.35	60.0' RT.



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

FINAL PLANS
NOT FOR CONSTRUCTION

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

TRAFFIC SIGNAL PLAN
BAILEY ROAD & CENTURY DRIVE

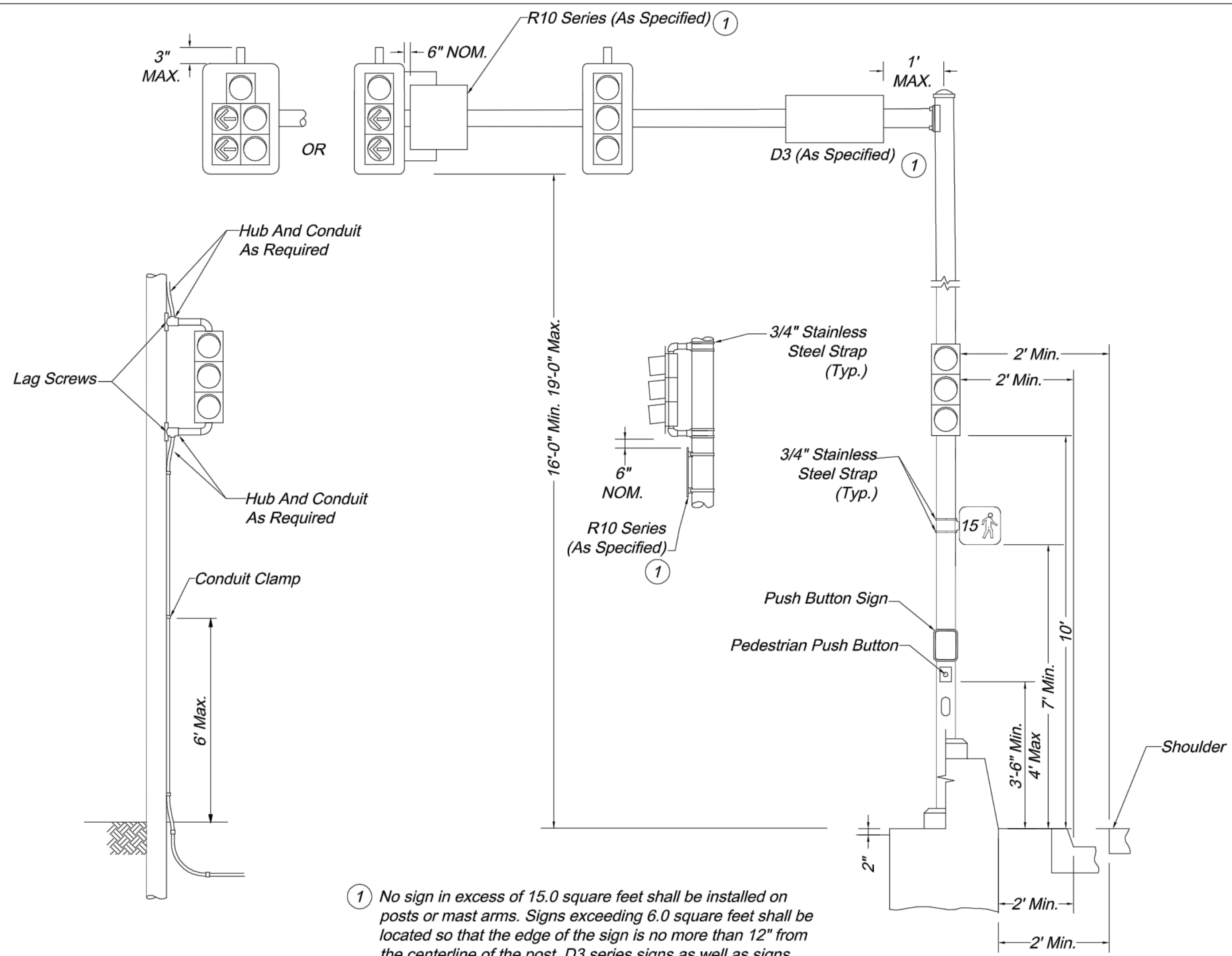
LEE'S SUMMIT MIDDLE SCHOOL #4
PUBLIC ROAD IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2021

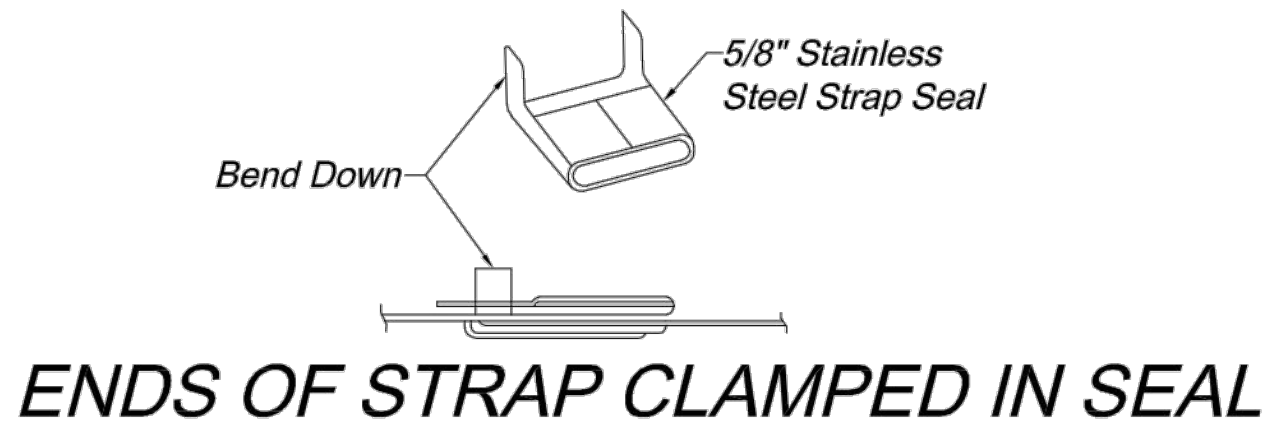
C.O.A. NO.: 001592
 DRAWN BY: JRC
 CHECKED BY: JAB
 APPROVED BY: JSS
 QA/QC BY: KJR
 PROJECT NO.: 020-0103
 DWG NO.: F 15 020103
 DATE: 4/15/2021

SHEET
62 OF 100

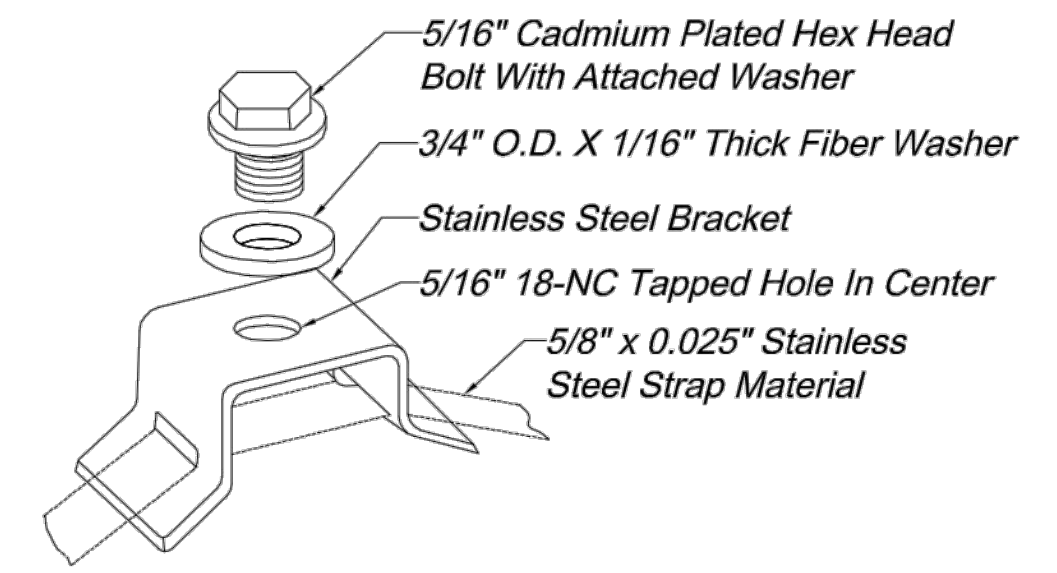


WOOD POLE MOUNTING

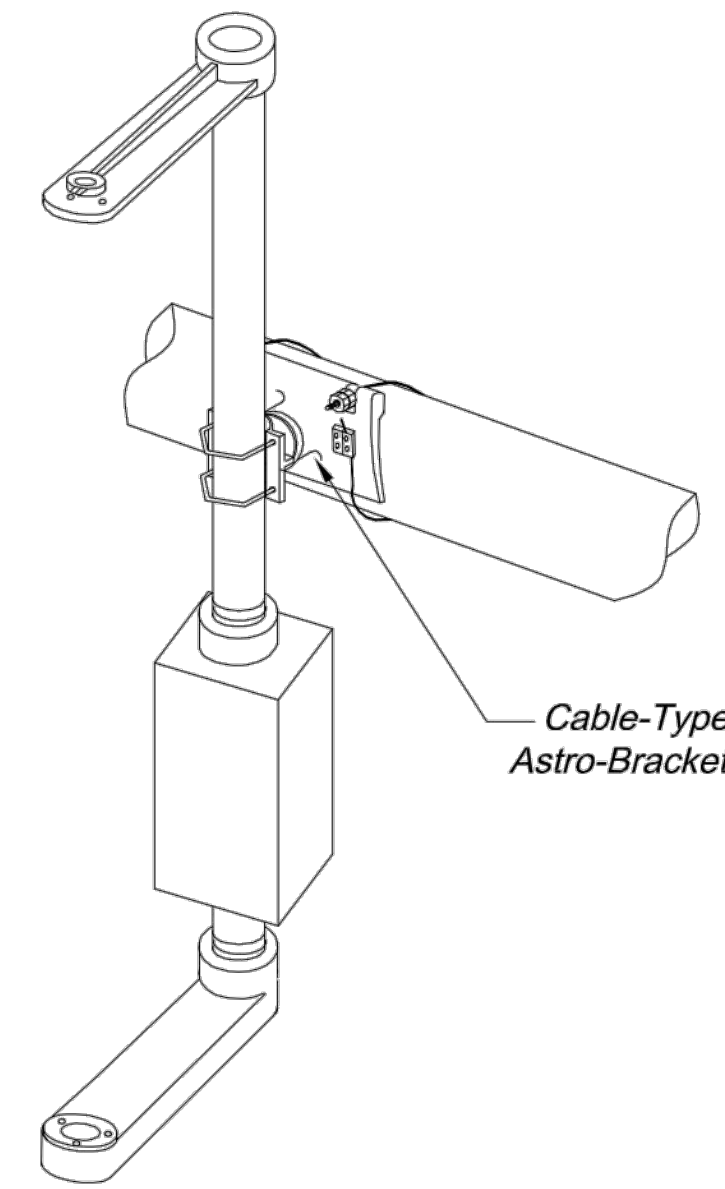
① No sign in excess of 15.0 square feet shall be installed on posts or mast arms. Signs exceeding 6.0 square feet shall be located so that the edge of the sign is no more than 12" from the centerline of the post. D3 series signs as well as signs installed on the post shall be mounted with a strap type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



ENDS OF STRAP CLAMPED IN SEAL

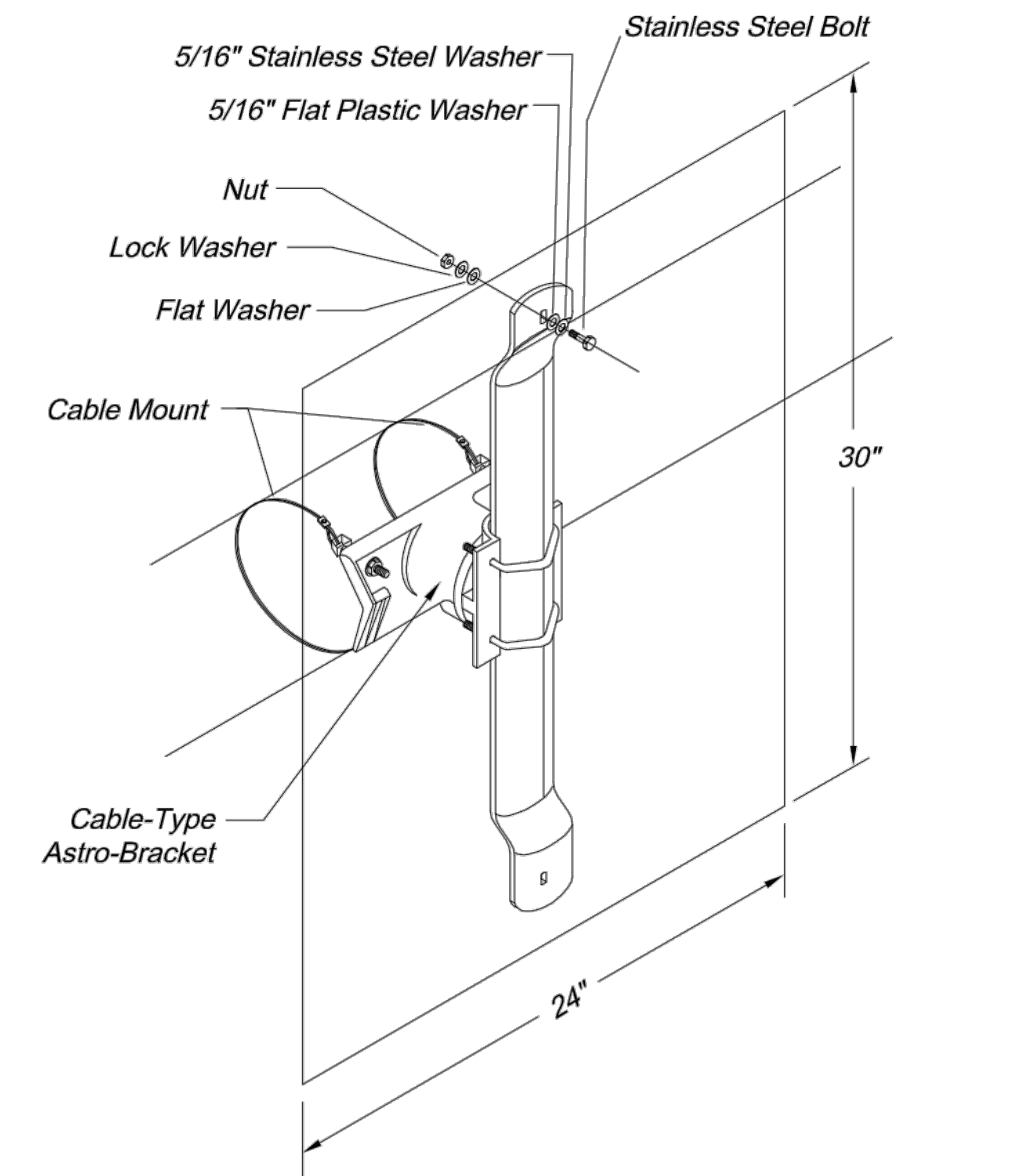


STRAP TYPE SIGN SUPPORT



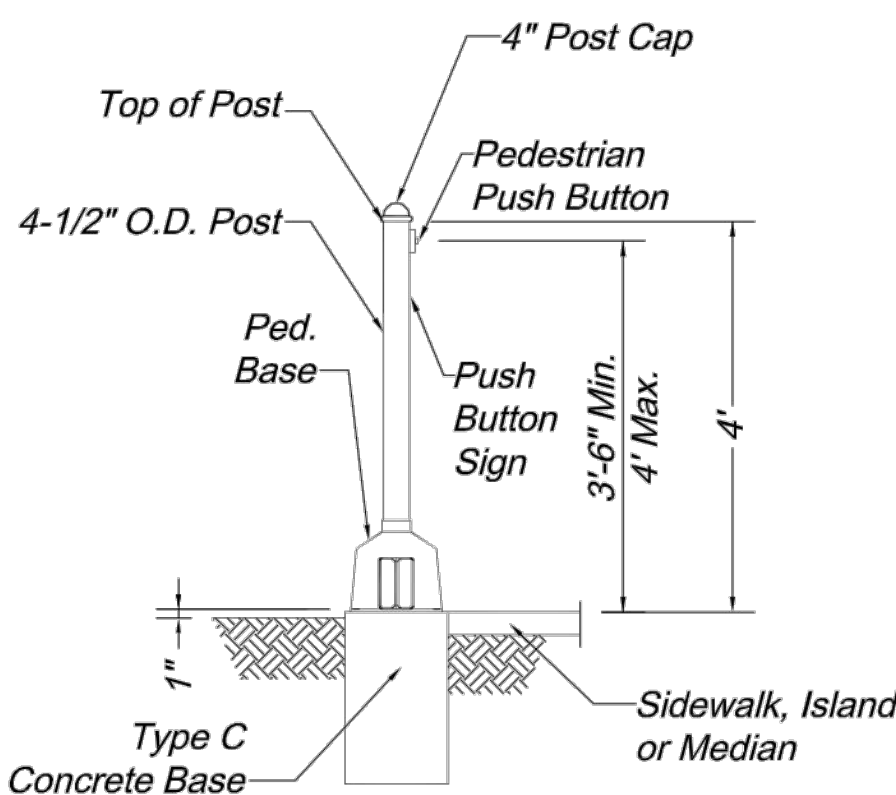
SIGNAL HEAD MAST ARM MOUNTING DETAIL

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



MAST ARM SIGN MOUNTING DETAIL

MAST ARM POLE MOUNTING



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.

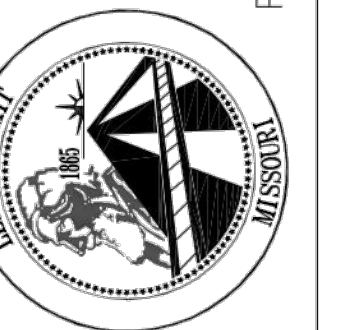
Side-mounted optically limiting heads shall have a minimum post clearance of 5-1/2".

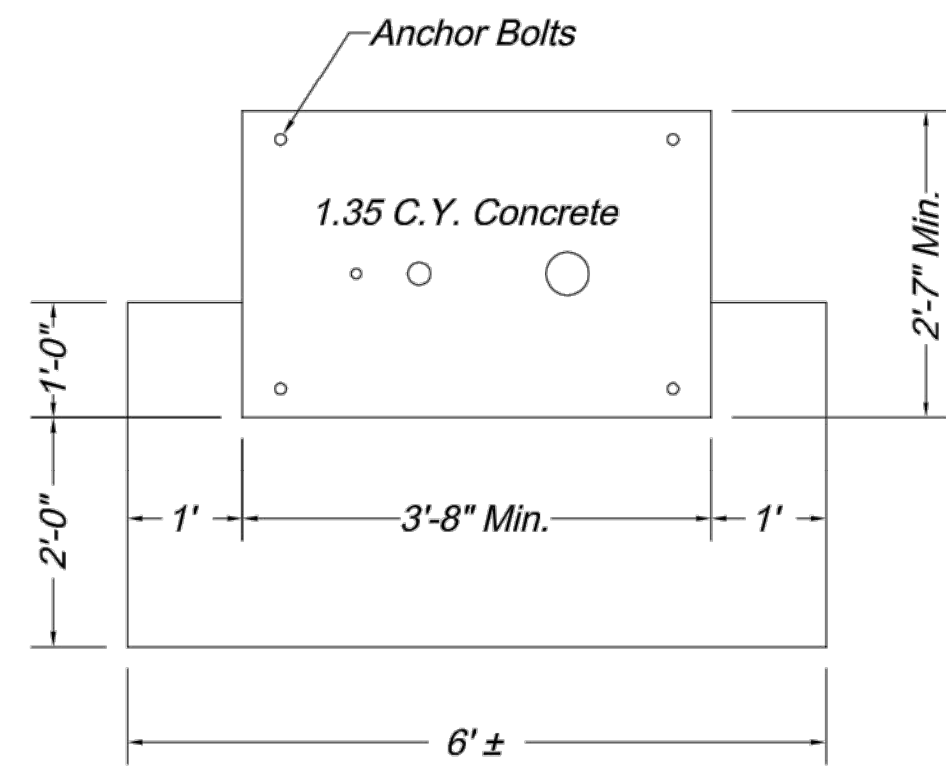
Symbol for pedestrian lenses shall have a minimum height of 11"

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.

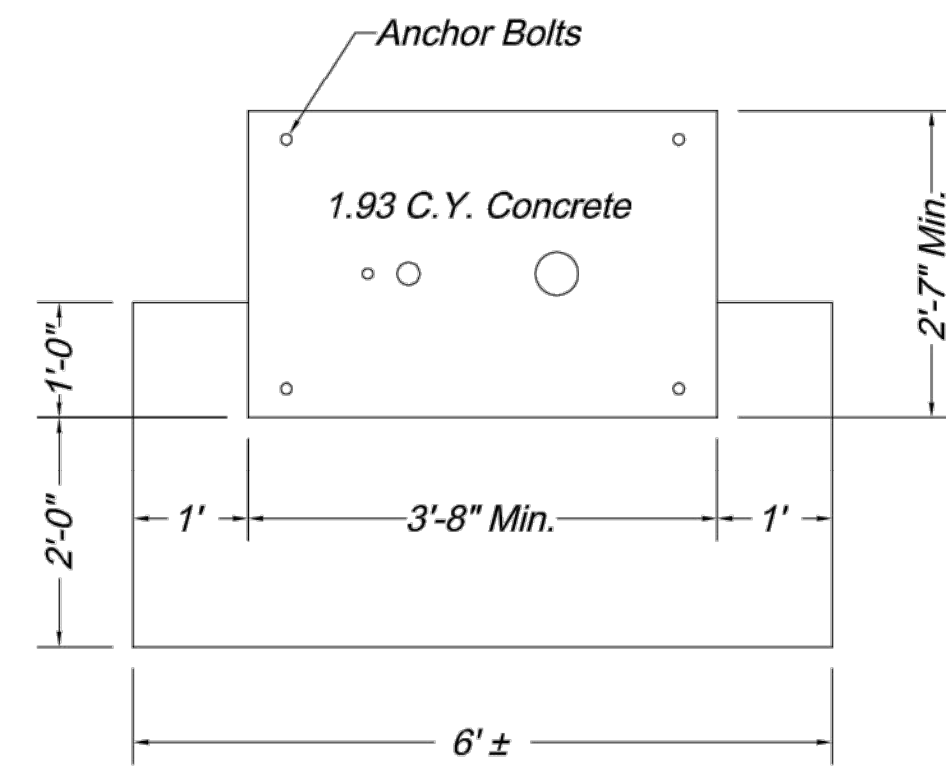
Signal appurtenances shall have a horizontal clearance no less than 2' from the face of a vertical curb or from the outside edge of a shoulder, except signals located in a median island.

See standard drawing TS-3 for base details.

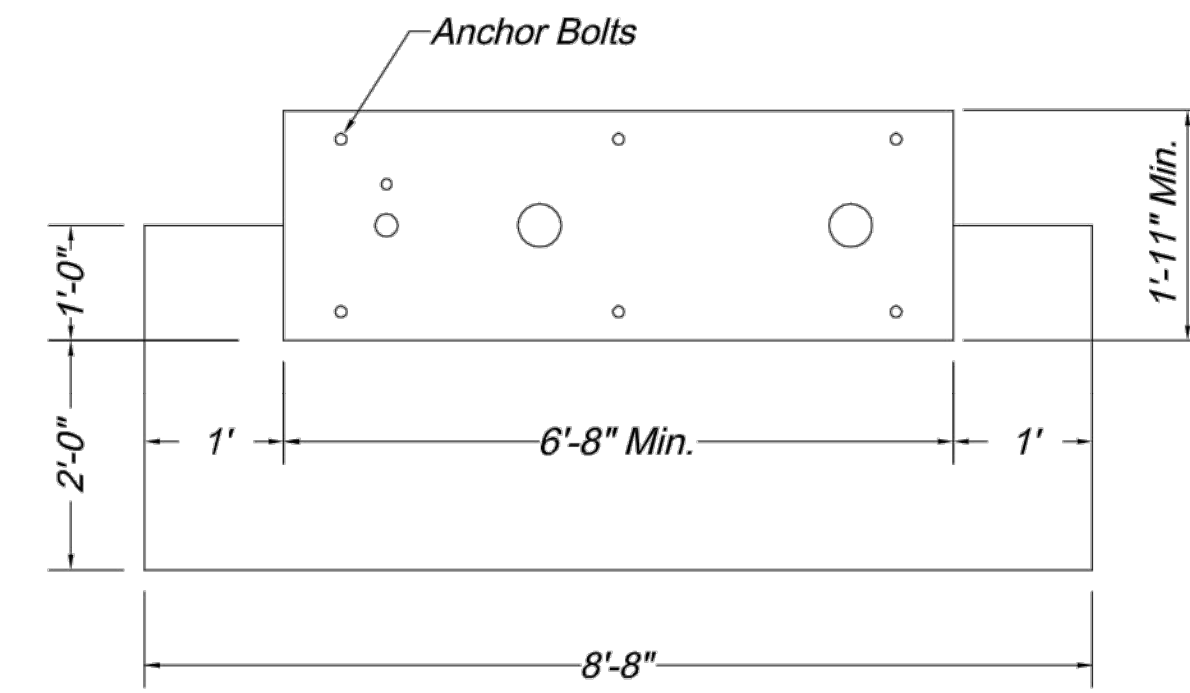




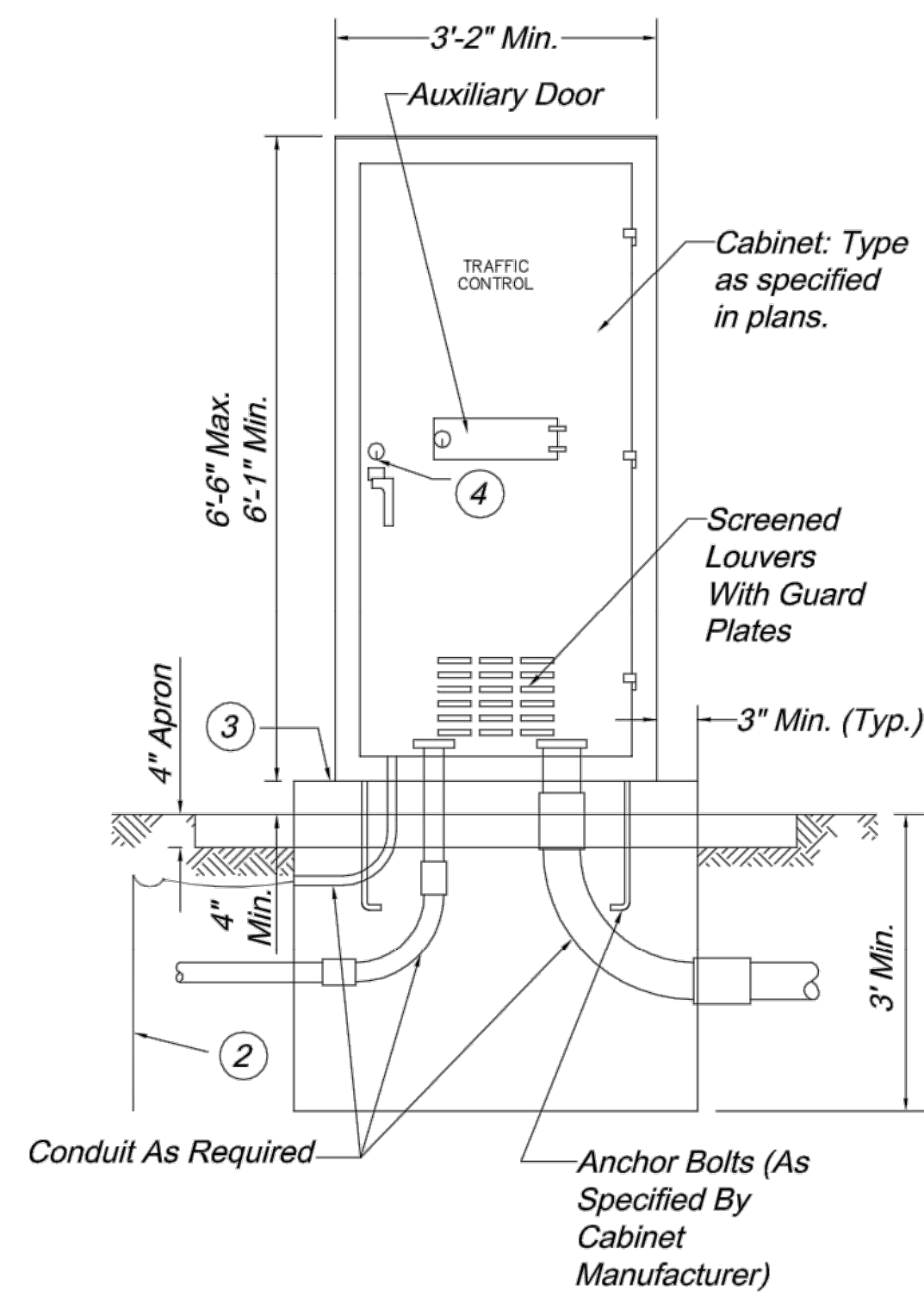
PLAN VIEW



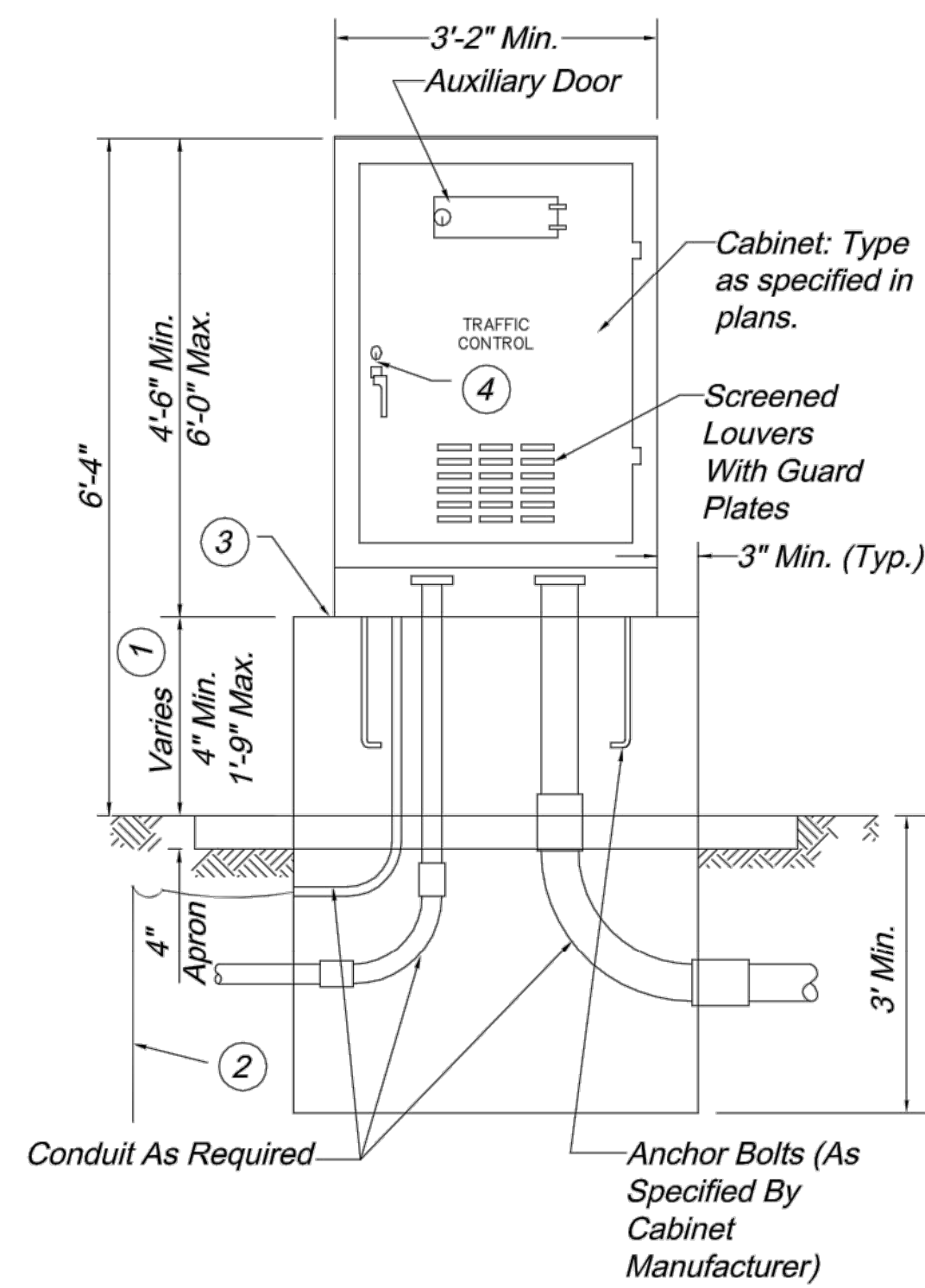
PLAN VIEW



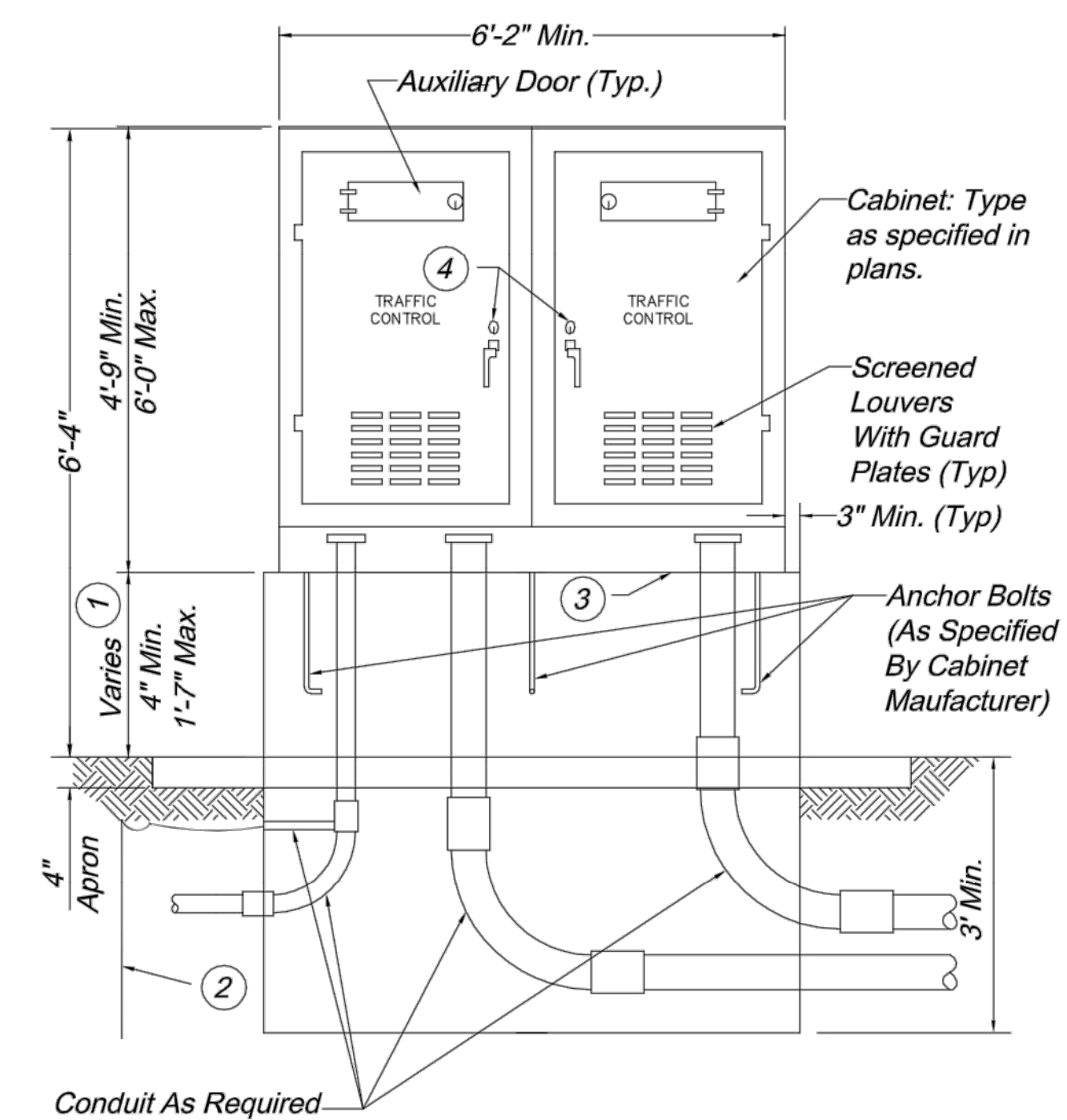
PLAN VIEW



For Controller Cabinets With Heights From 6'-1" To 6'-6" TYPE E

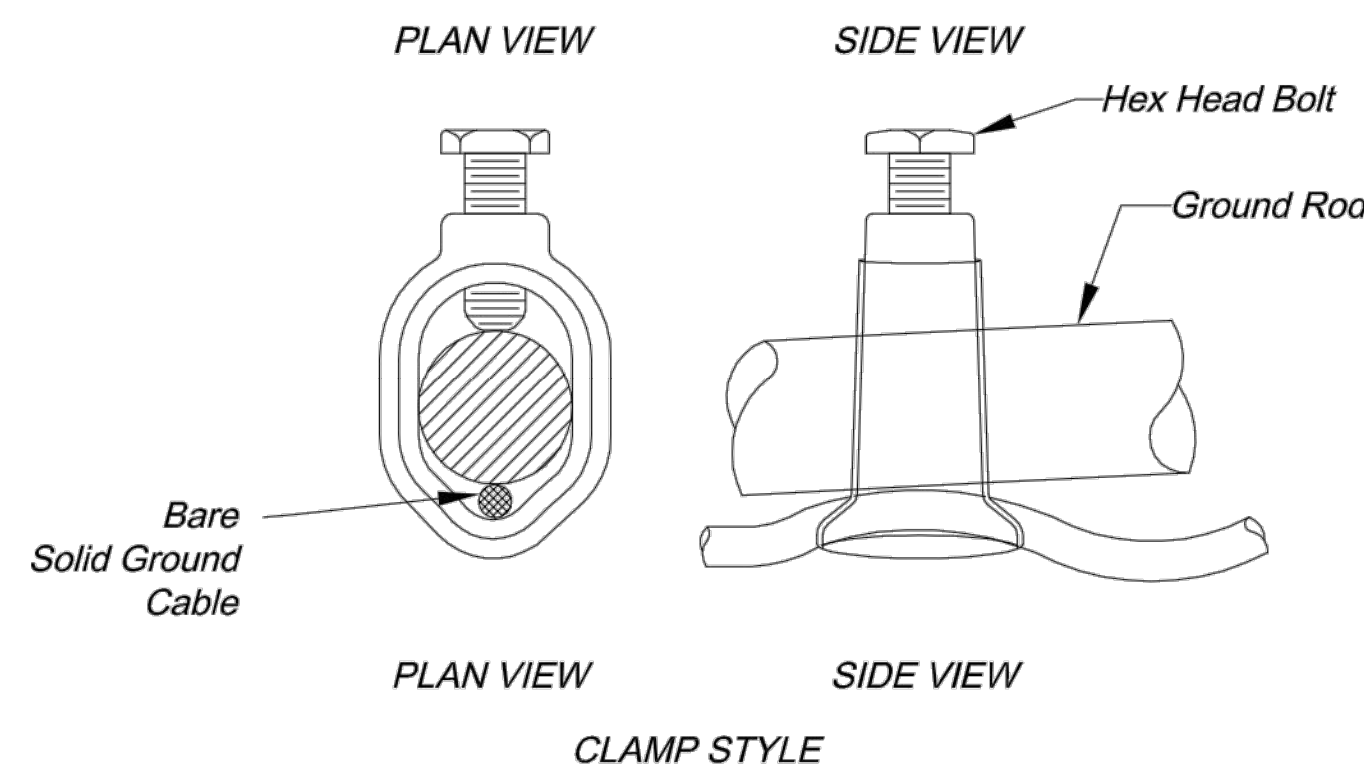


For Controller Cabinets With Heights From 4'-4" To 6'-0" TYPE EV



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.

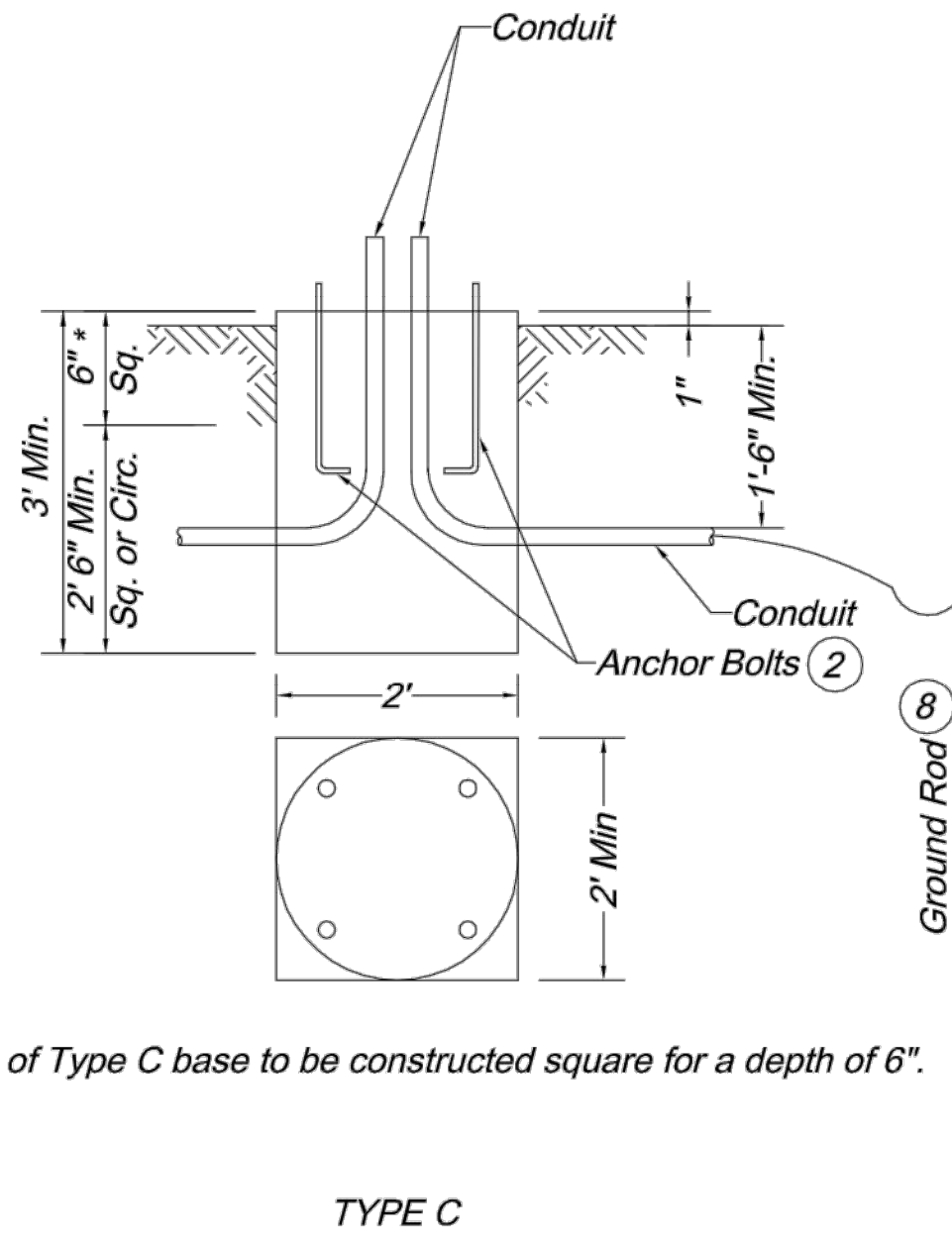
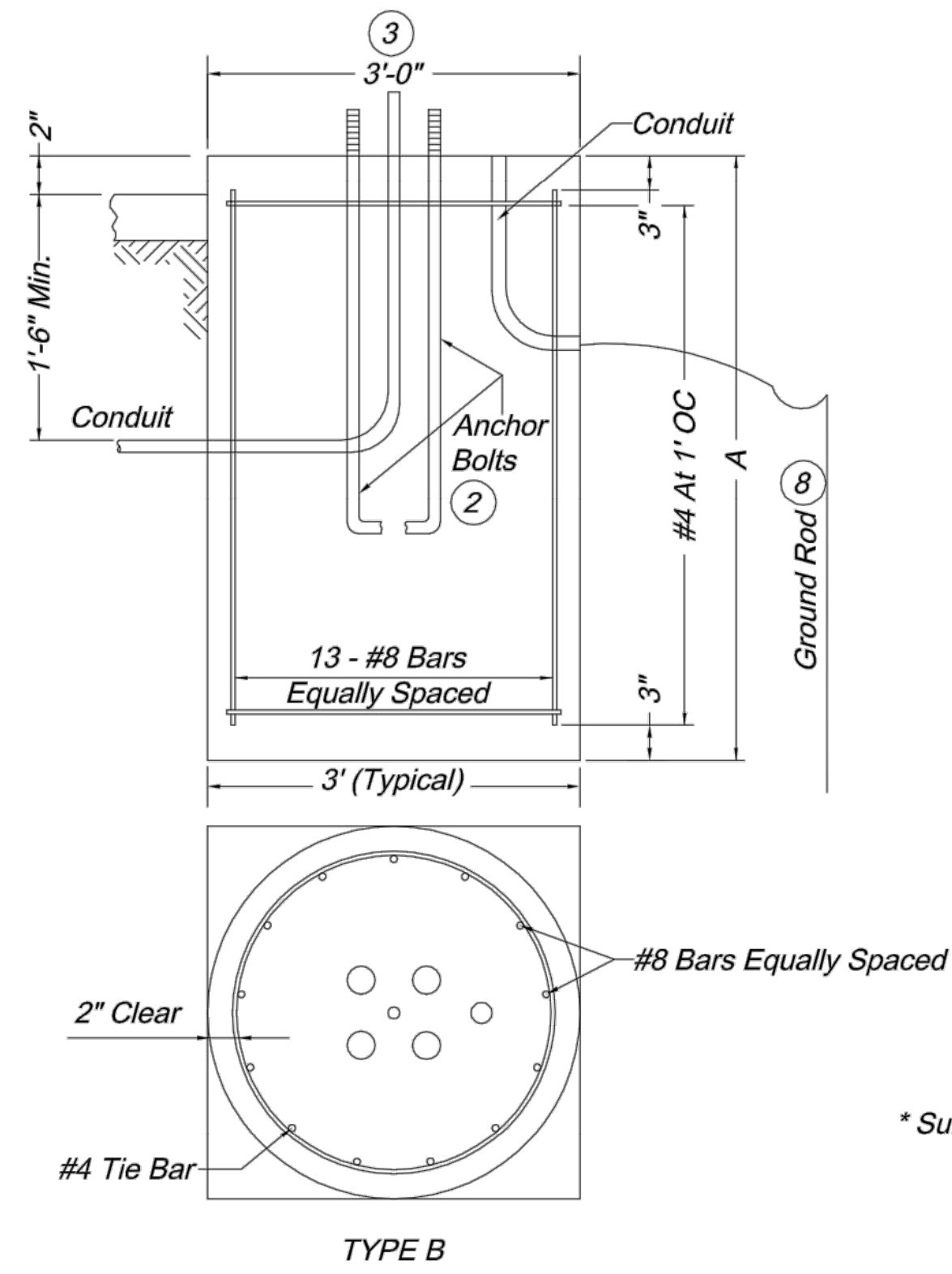
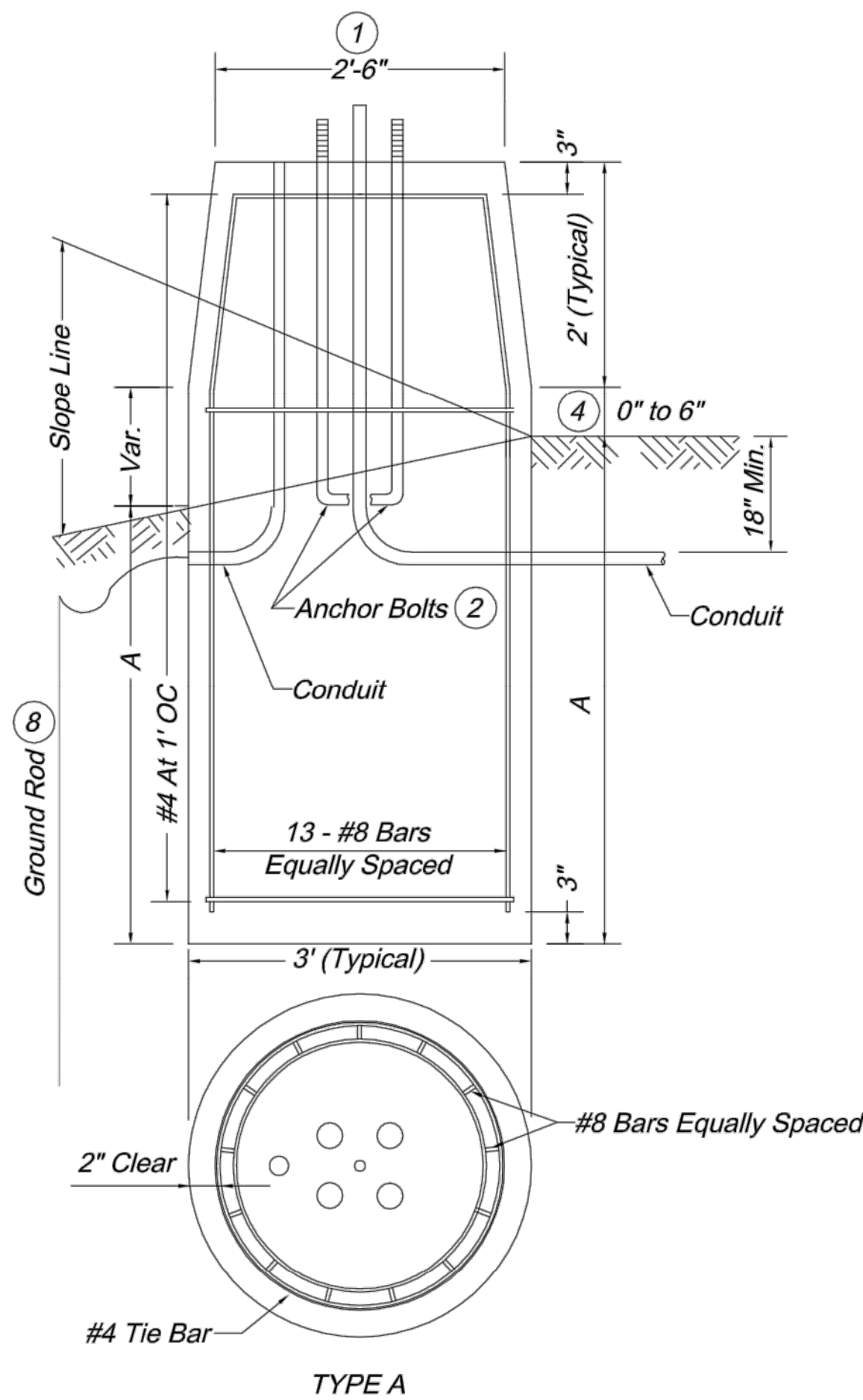
CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809



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.

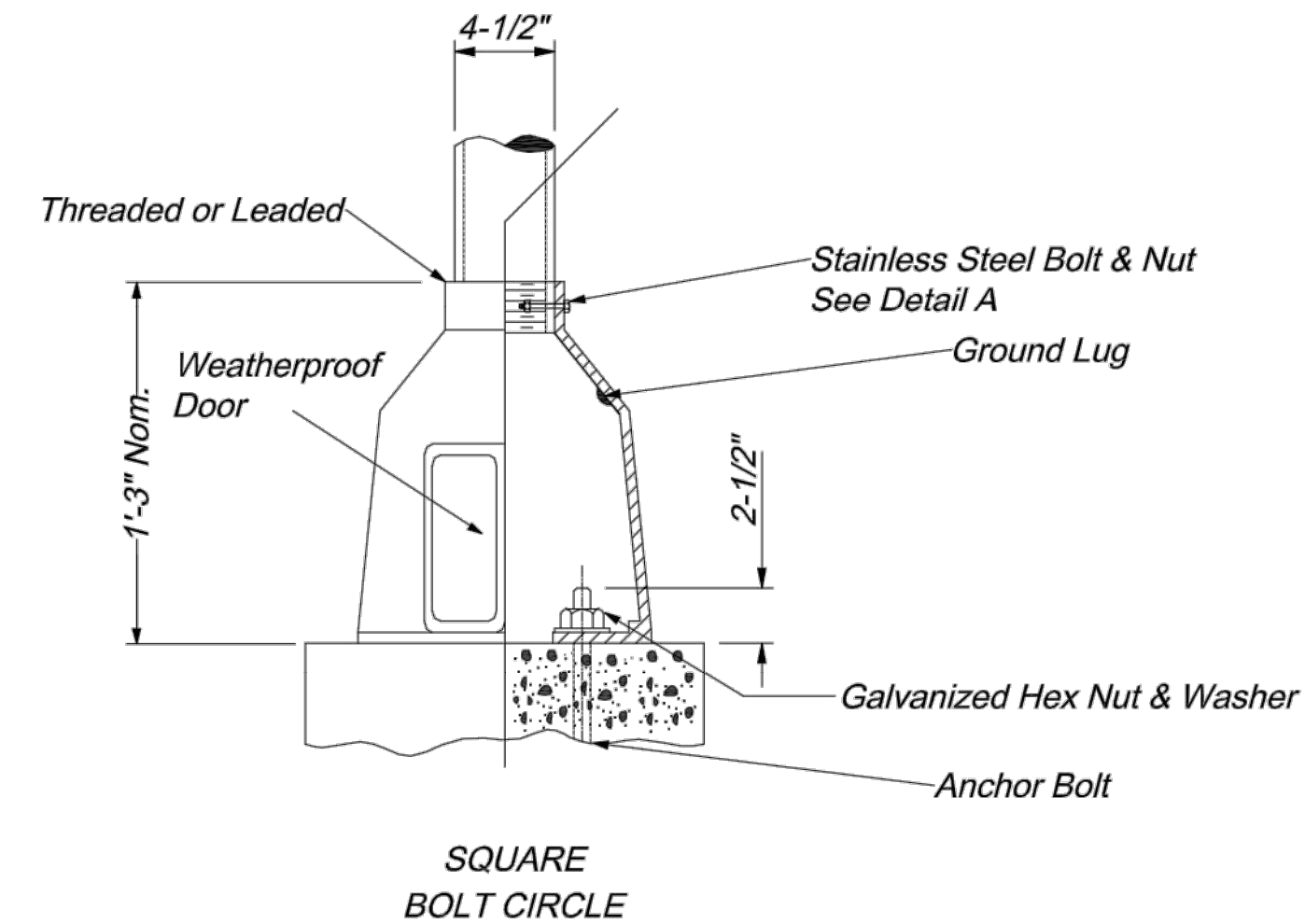
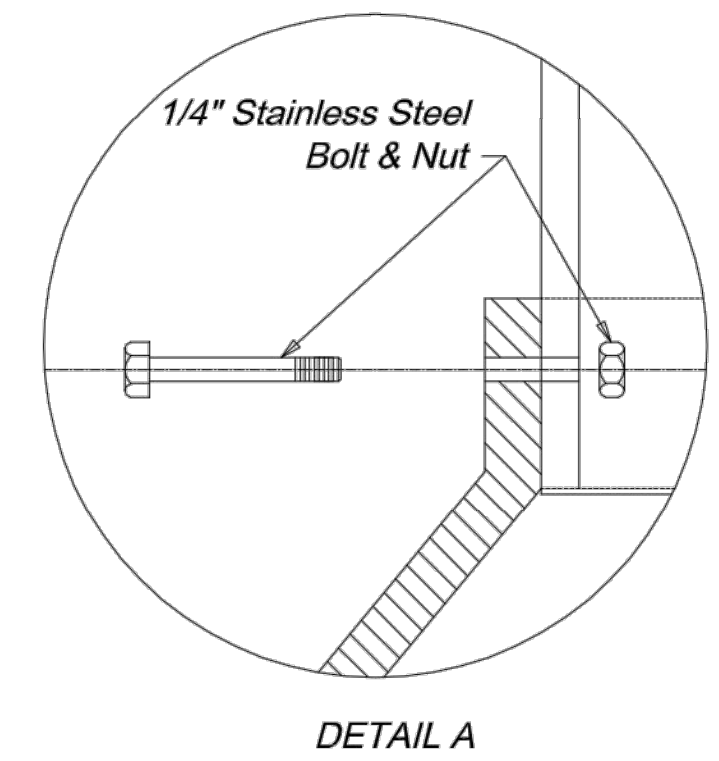
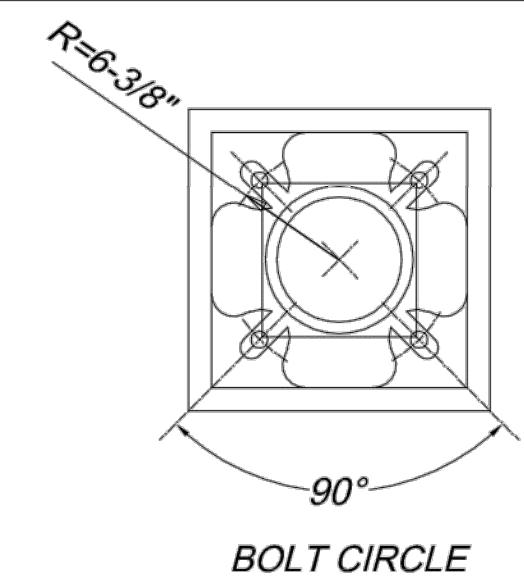
STEEL & CONCRETE REQUIREMENTS FOR POST BASES				
Type	Bases		#8 Steel Bar	
	A (10)	Length	Weight Lbs (11)	Conc. C.Y.
A-8	8'-0"	9'-6"	399	2.53
A-10	10'-0"	11'-6"	481	3.06
A-13	13'-0"	14'-6"	604	3.84
B-8	8'-0"	7'-6"	317	2.09
B-10	10'-0"	9'-6"	400	2.62
B-13	13'-0"	12'-6"	523	3.40
C*				0.44

(10) Soil depth, no rock
(11) Include #4 tie bar

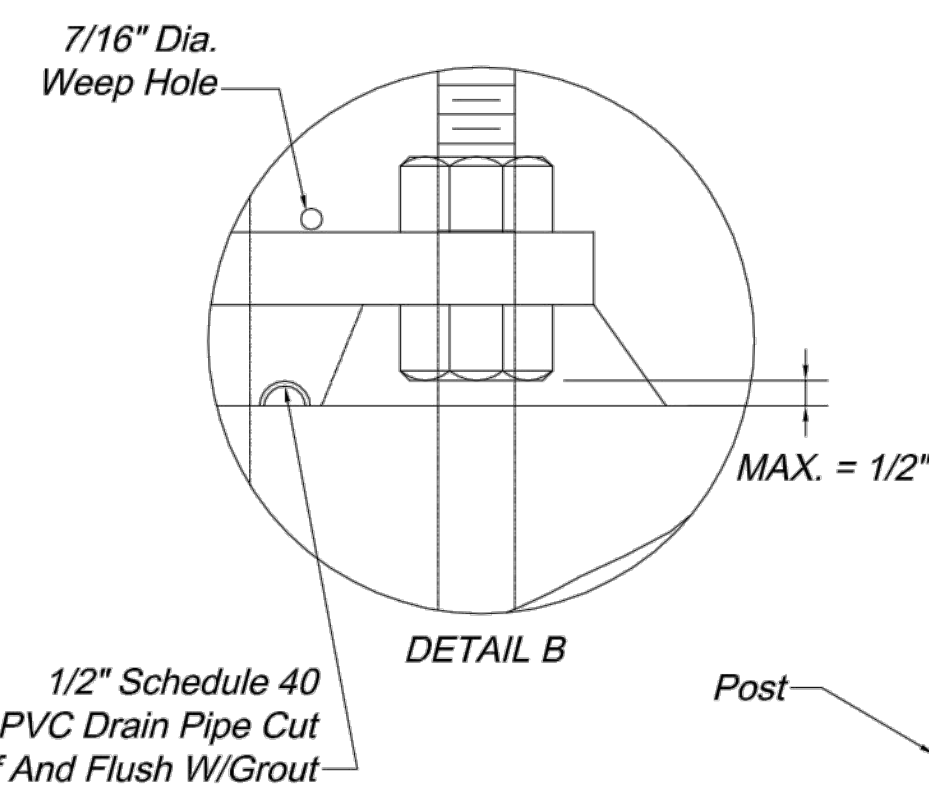
* Surface of Type C base to be constructed square for a minimal depth of 6".

BASE EMBEDMENT IN SOLID ROCK				
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.

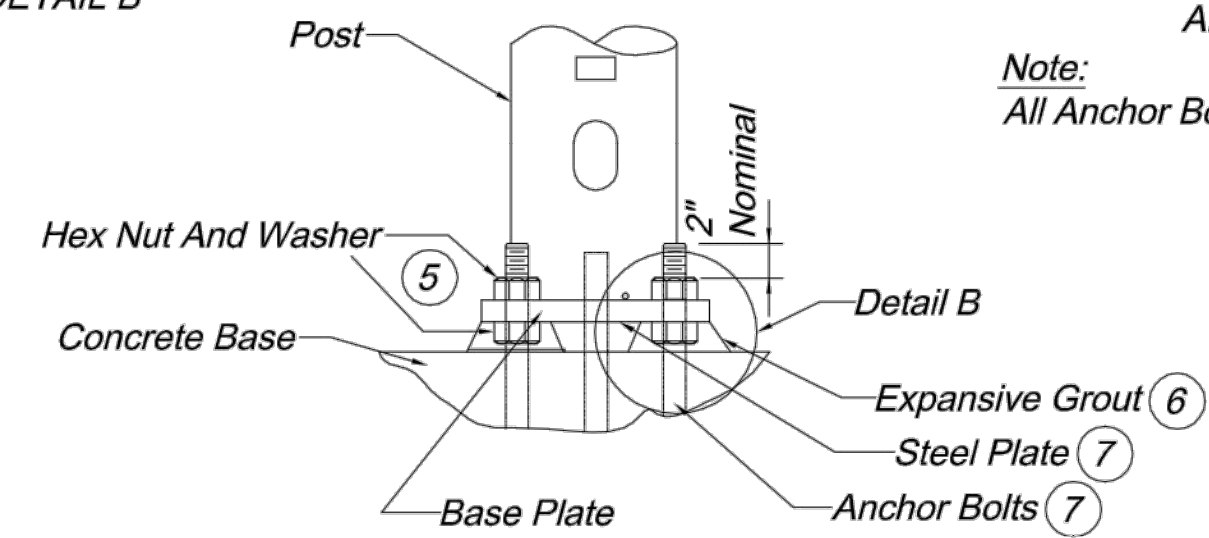


CAST BASE

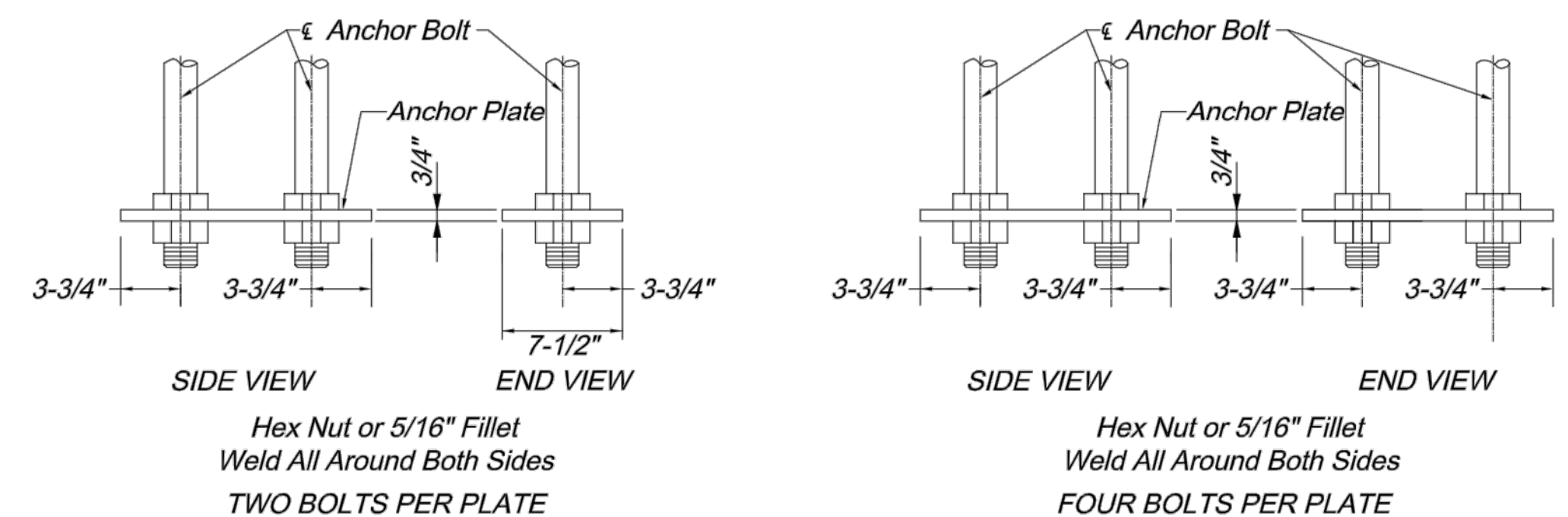


Bolt Length Inches	Vert Ht. A Inches	Thread Len. B Inches	Dia. C Inches
19	17	1.50	0.625
57	51	7.00	1.250
79	73	7.50	1.500
94	88	8.00	1.750
121	115	8.50	2.000
120	114	9.00	2.250
146	140	9.50	2.500

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.

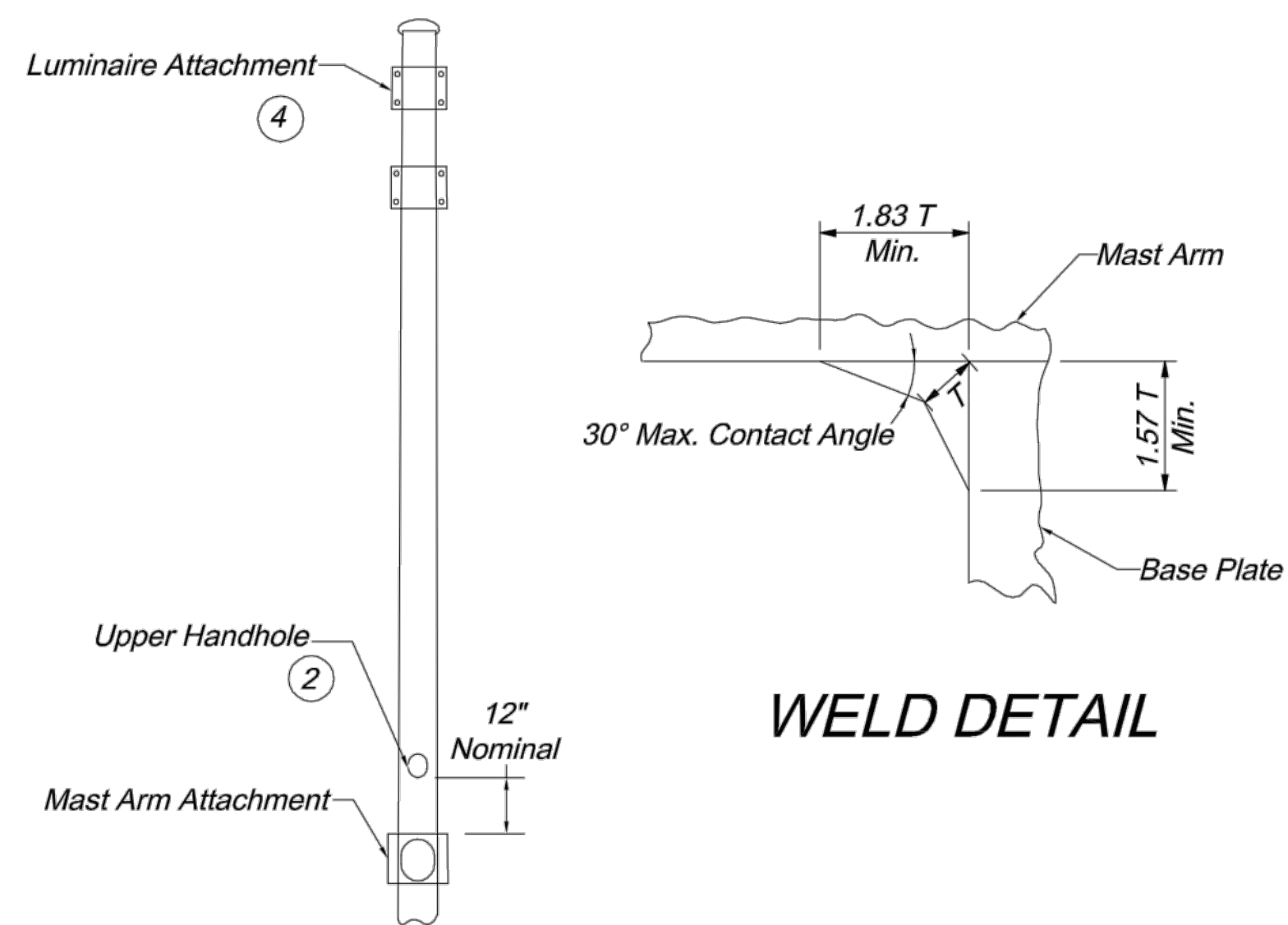
CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
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PHONE: (816) 969-1800 FAX: (816) 969-1809



POST BASE DETAILS

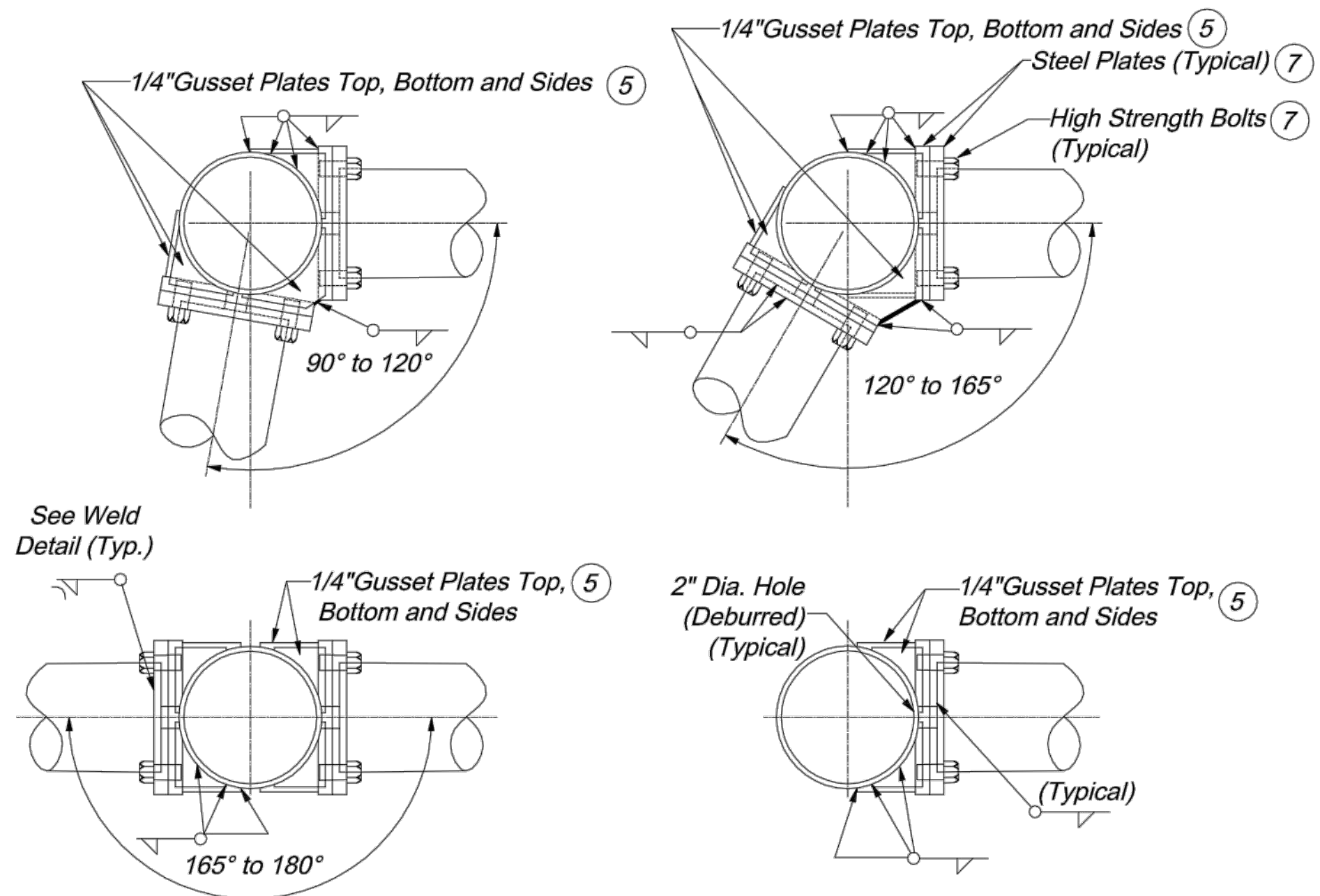
STANDARD DRAWING TS-3

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

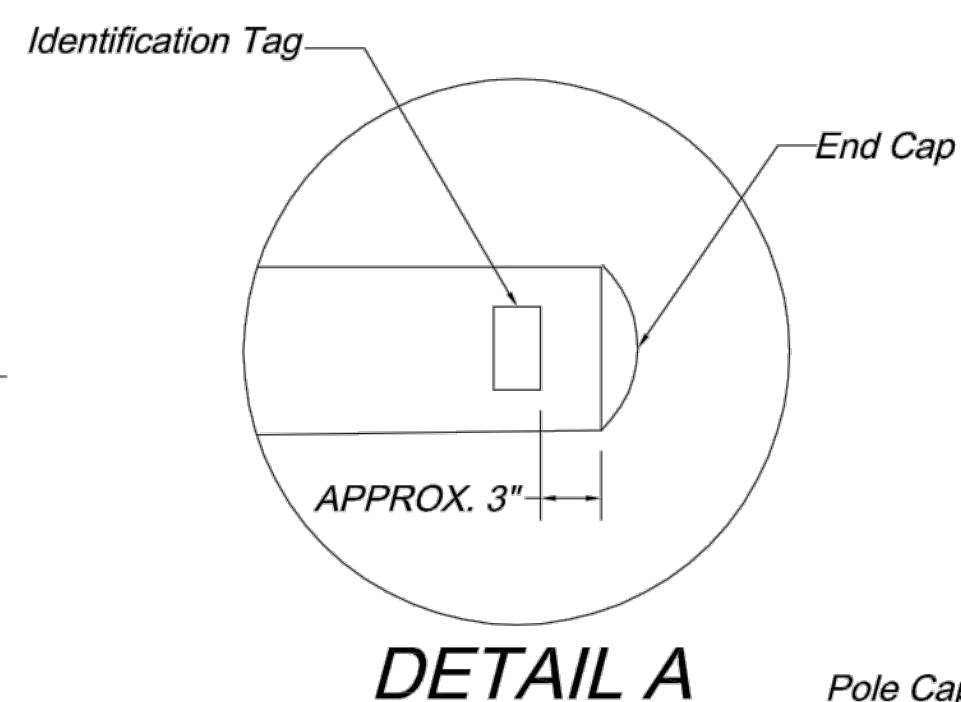


TYPE BL AND CL POSTS

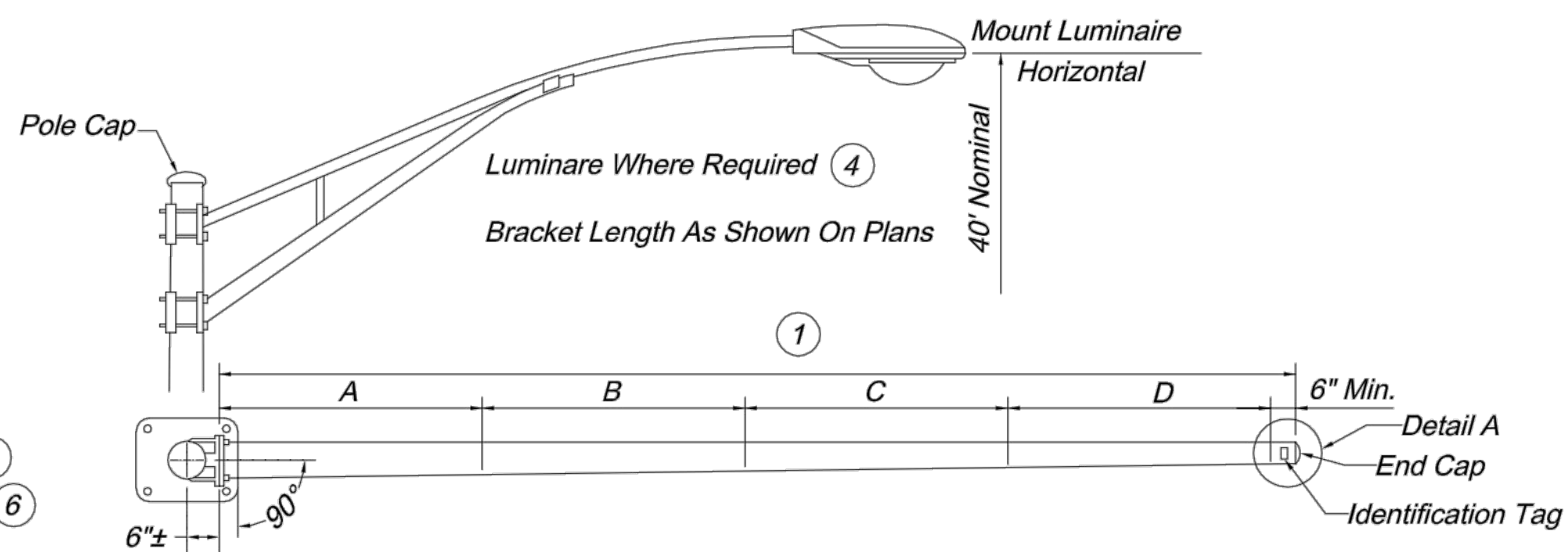
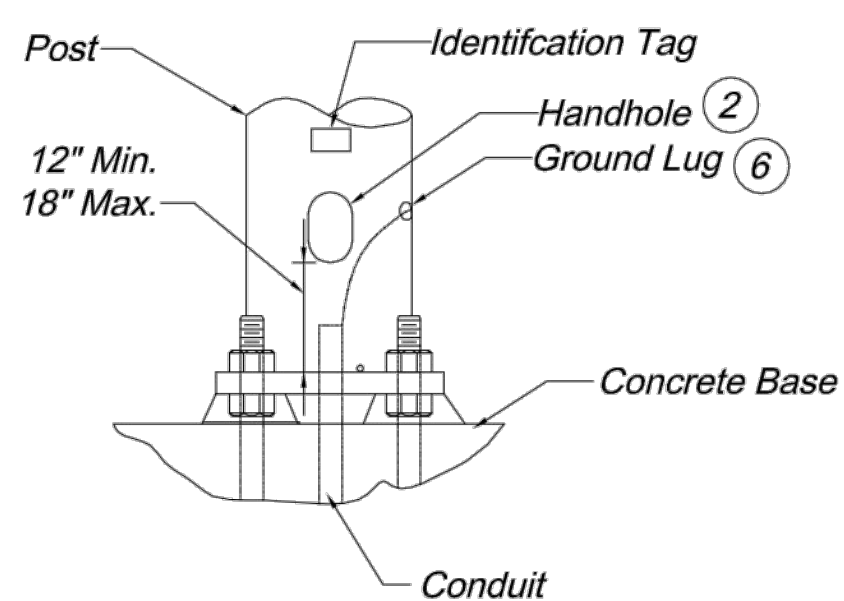
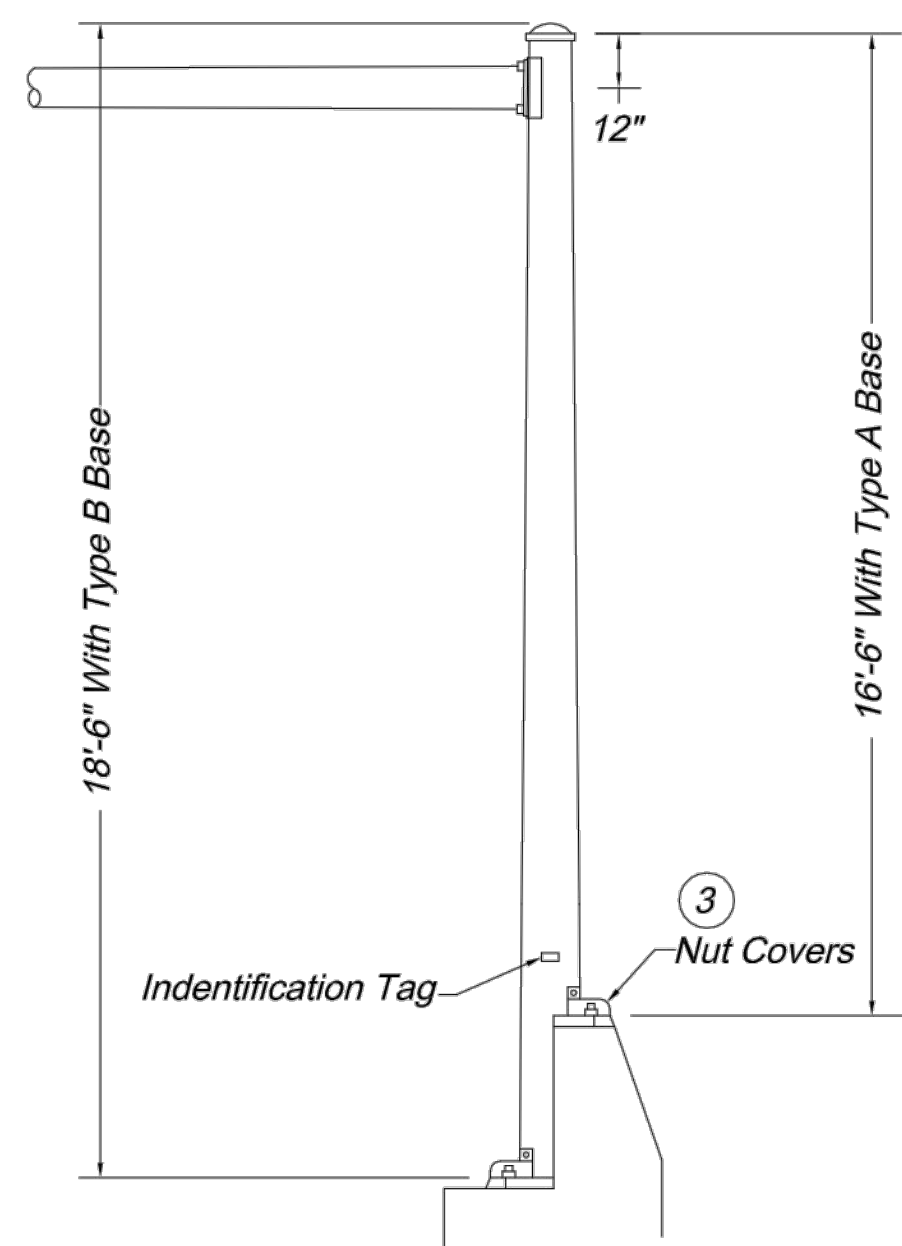
WELD DETAIL



ARM ATTACHMENTS

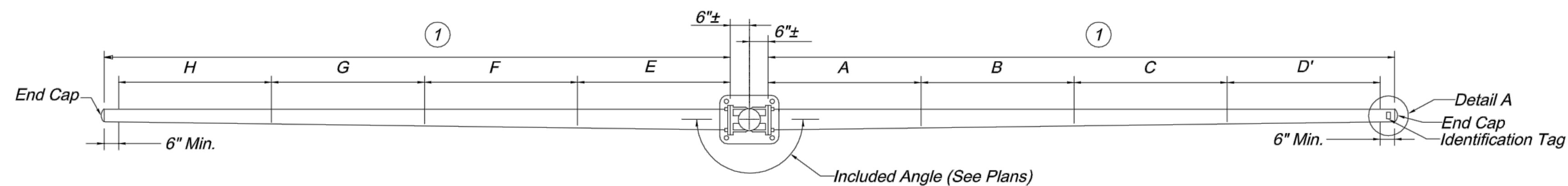


DETAIL A



TYPE C AND TYPE CL (WITH LUMINAIRE)

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



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.

TYPE B AND TYPE BL (WITH LUMINAIRE)



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.

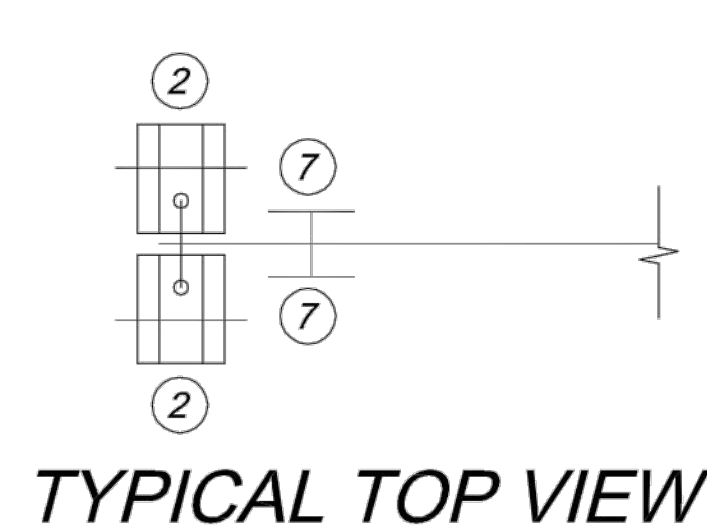
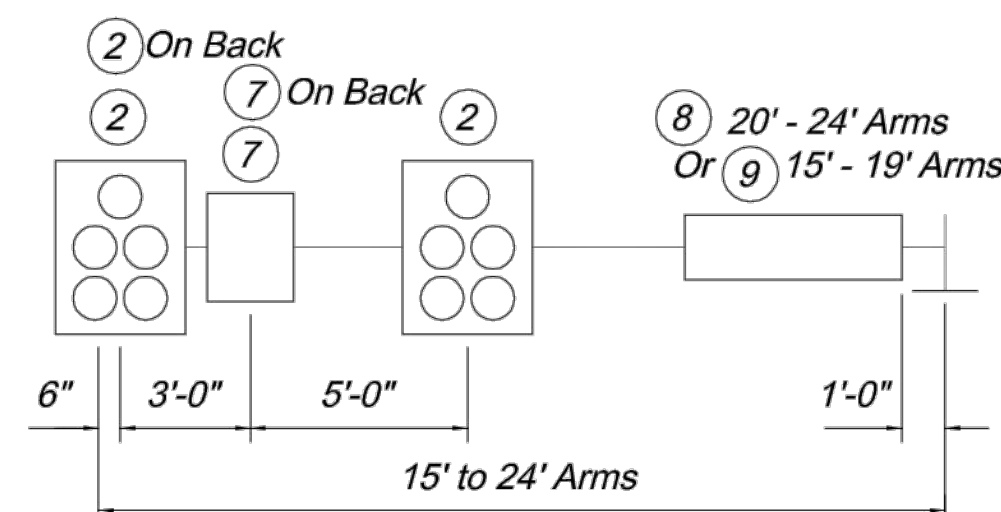
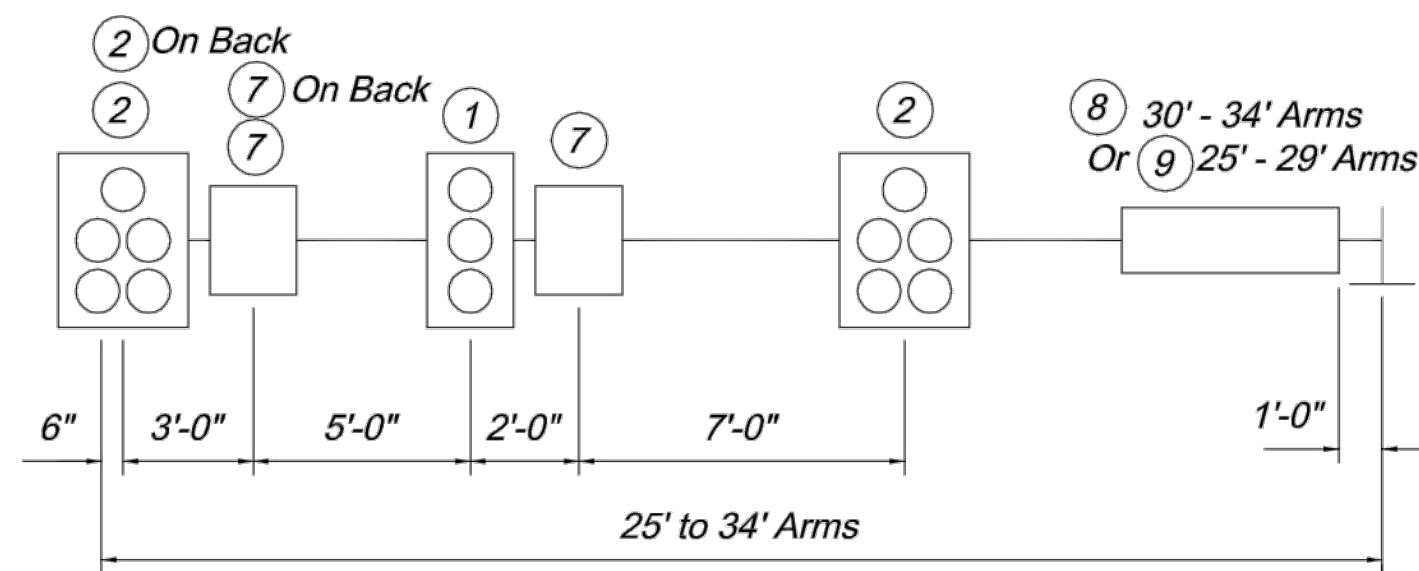
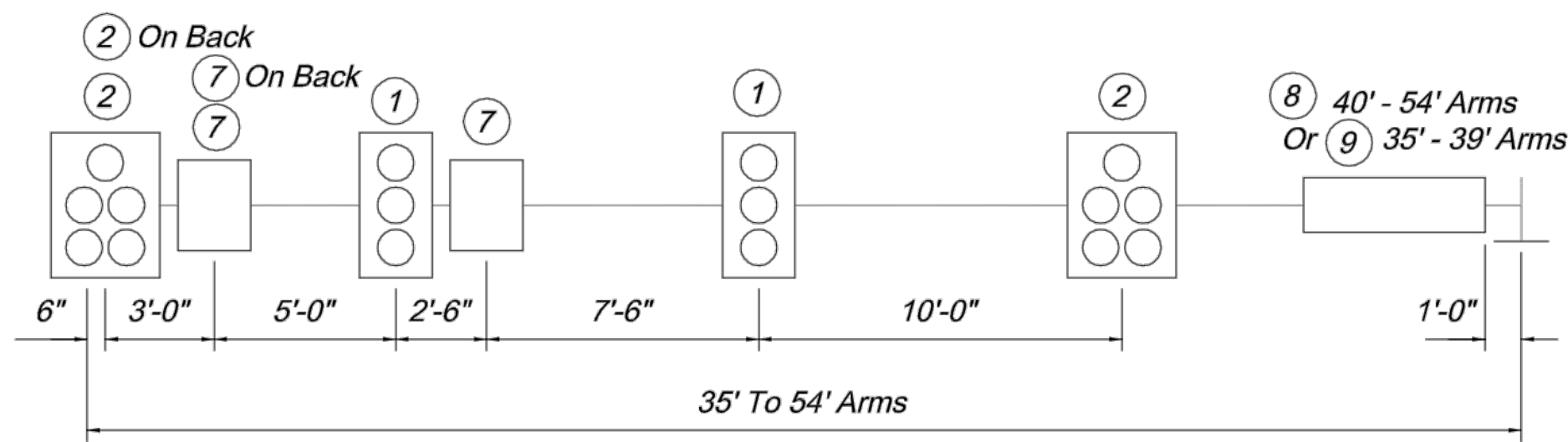
- ① Arm Lengths shall not exceed 54 feet. See traffic signal plans for dimensions.
- ② Handholes shall be approximately 4" x 6-1/2". Handhole frame shall be reinforced so that the pole strength is not reduced.
- ③ Posts shall be furnished with individual nut covers.
- ④ See street lighting standard details 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:

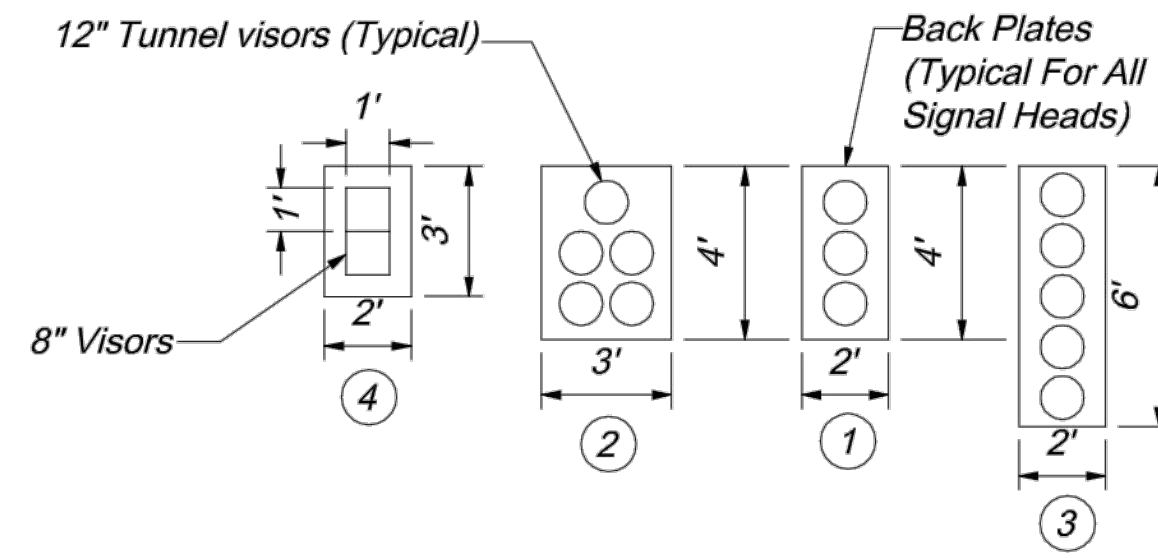
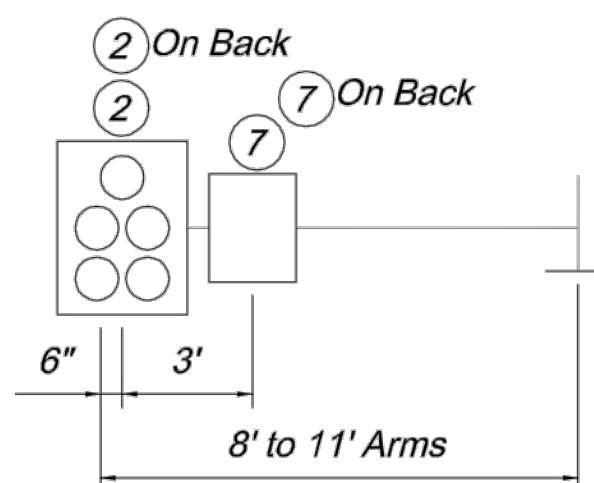
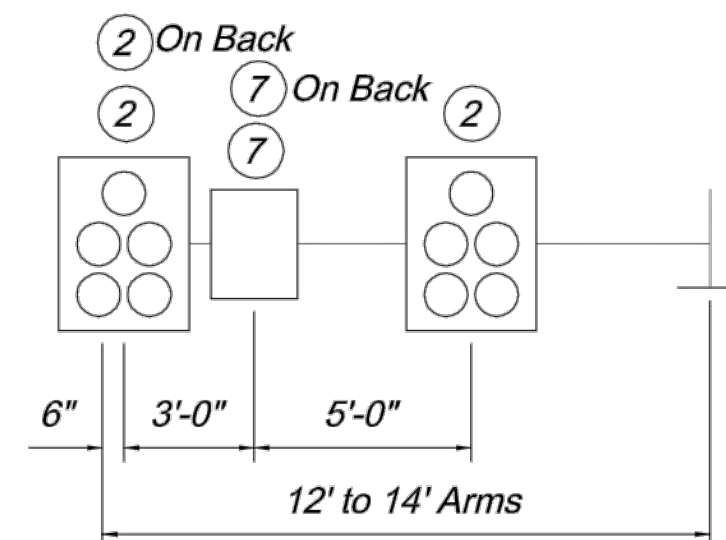
Arms shall be raked up 0.25" per foot minimum. Arms shall be provided with a permanent marking indicating proper orientation for installation.

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.



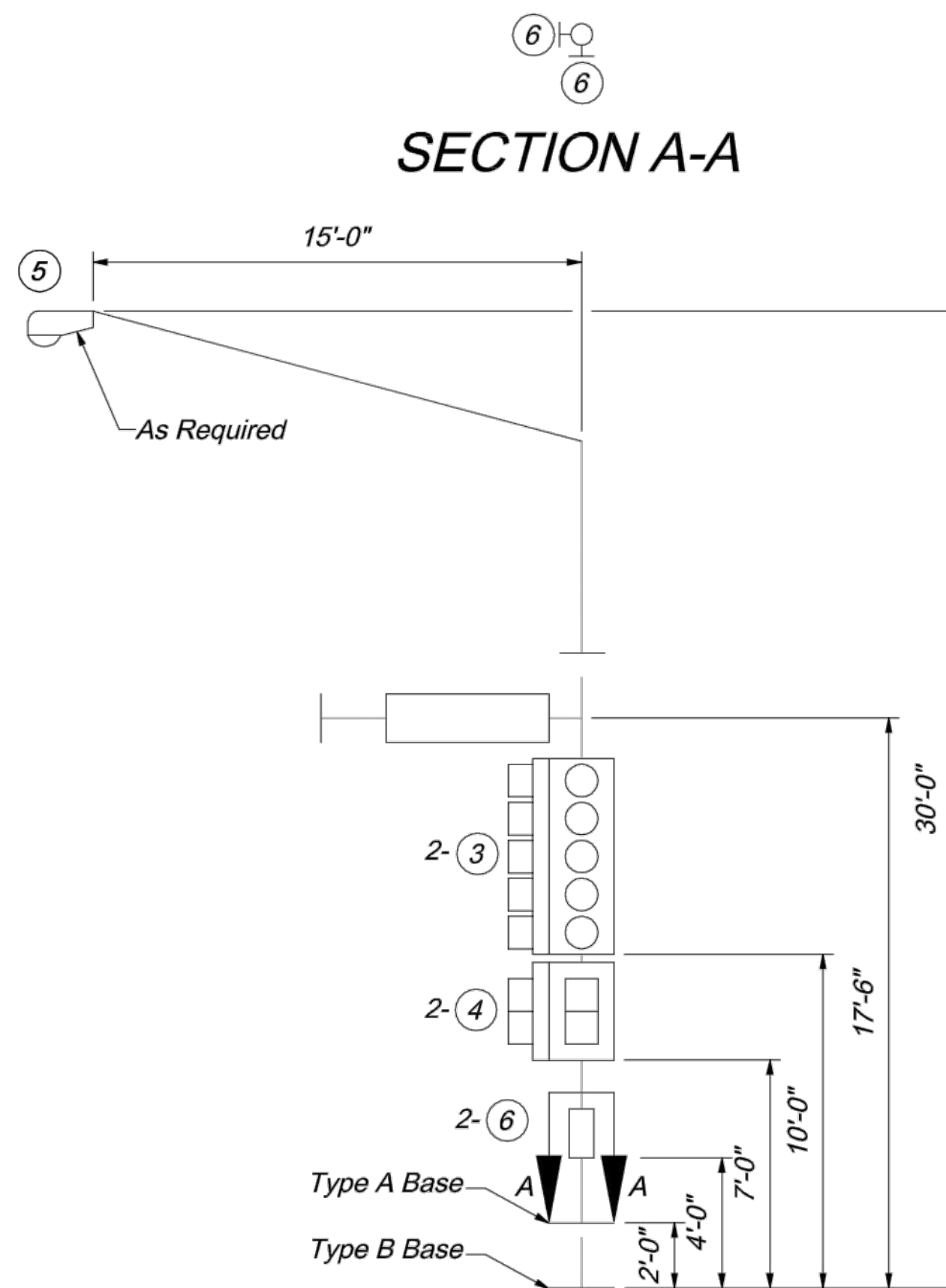


MAST ARM LOADING



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



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.

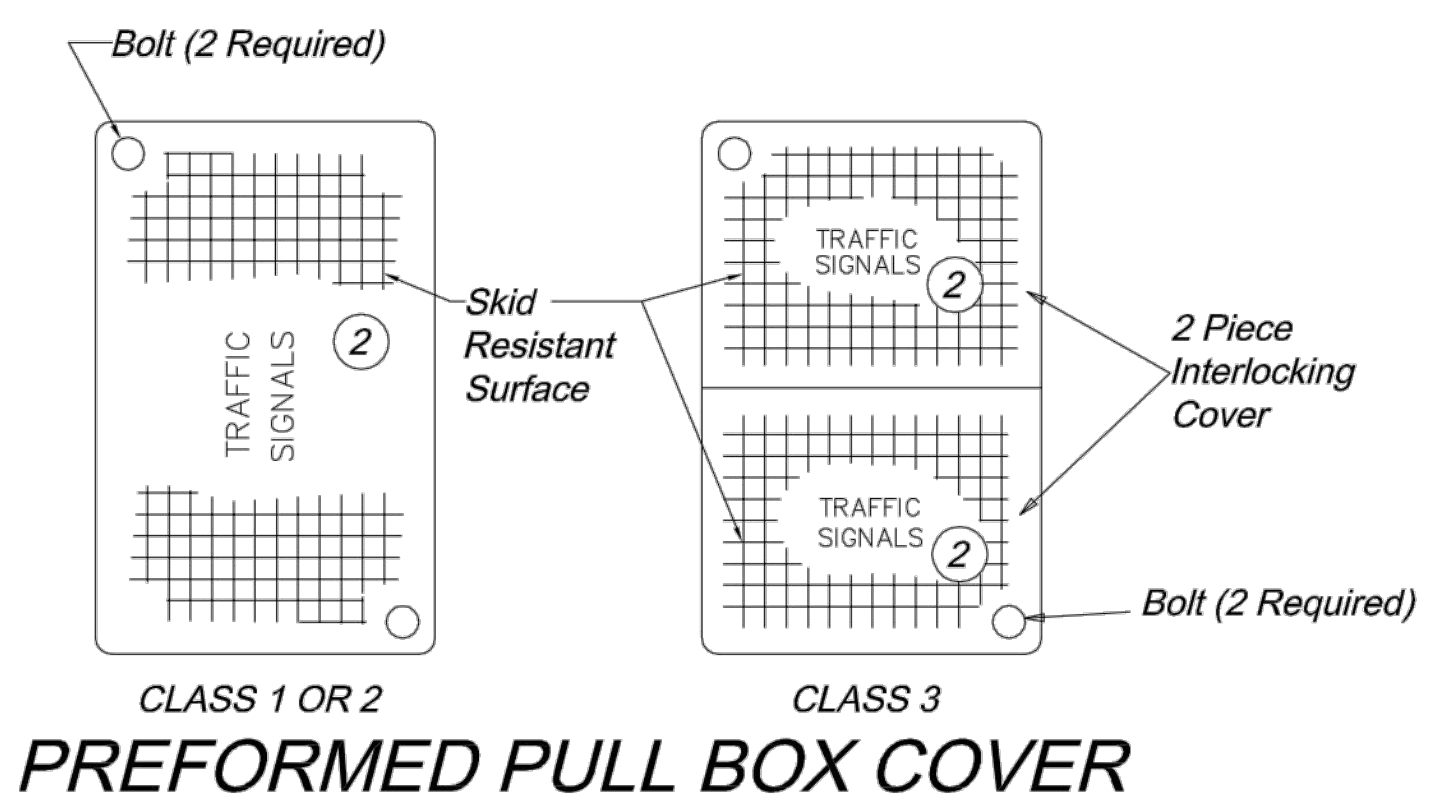
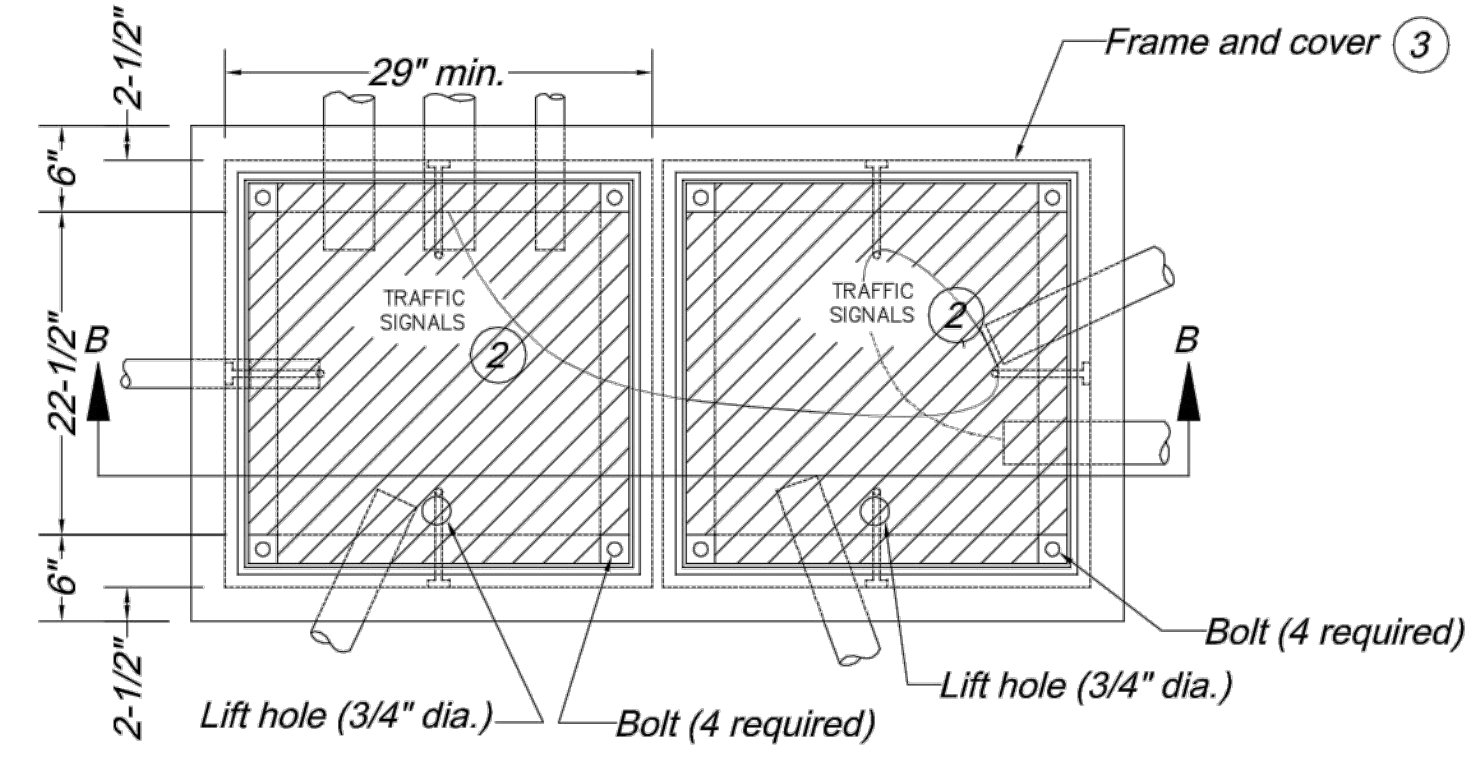
***A set of shop drawings including weld procedure specifications and design computations shall be submitted for record and reference. The submitted drawings and calculations shall be signed and sealed by a professional engineer in accordance with the laws relating to architects and professional engineers (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:

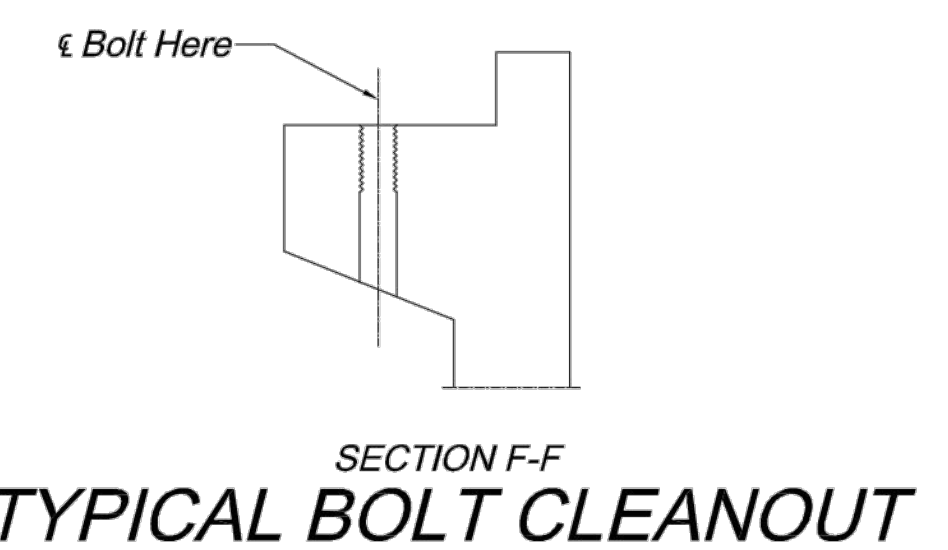
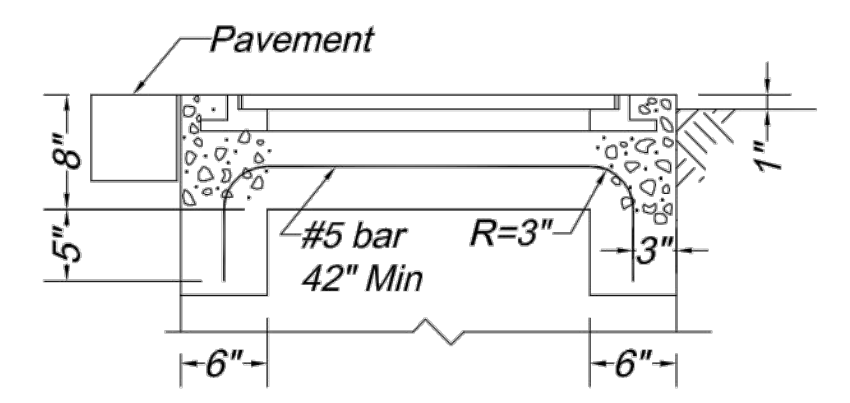
Attachment locations are for structural design purposes only. Actual locations are shown on the plans.



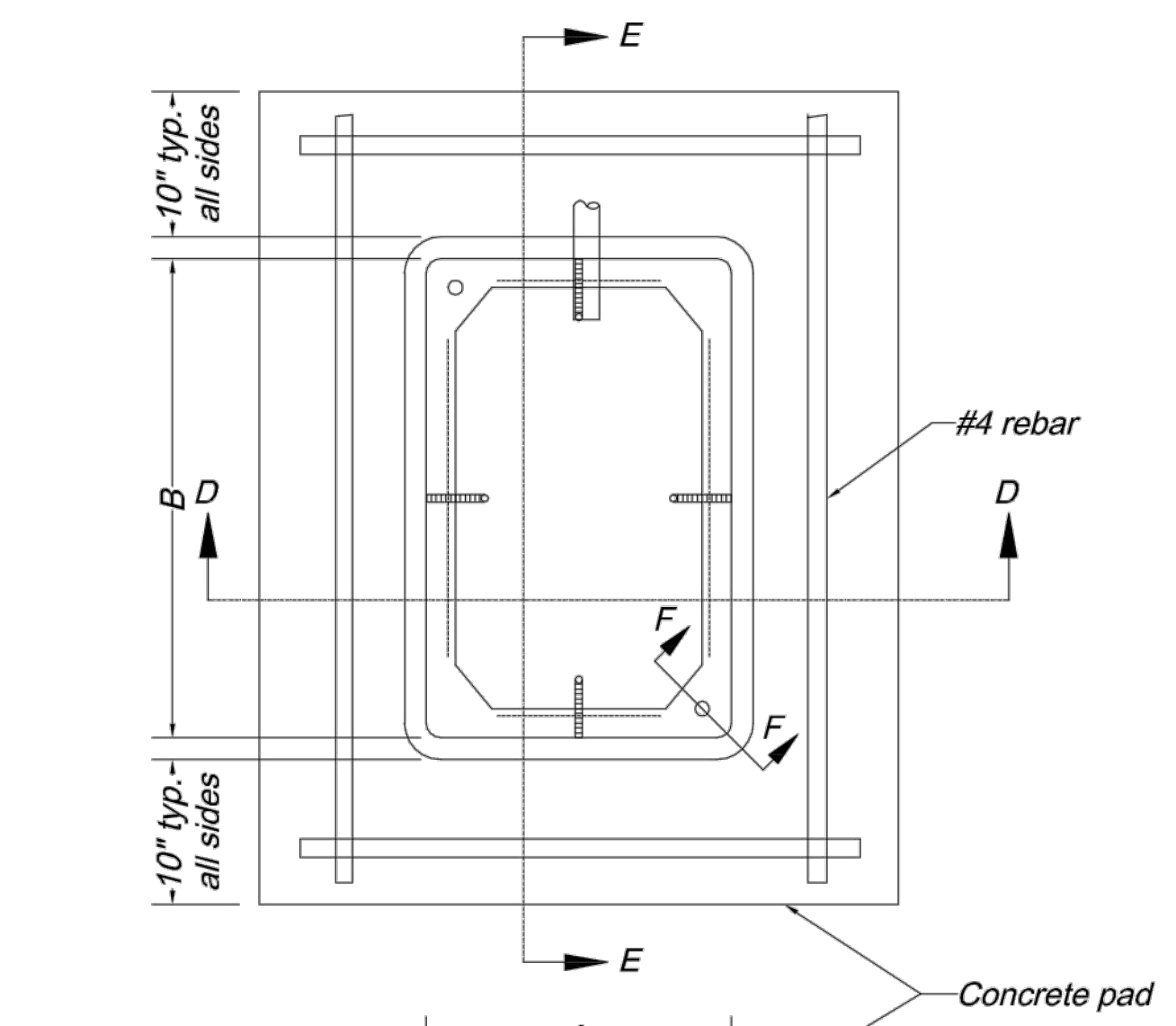
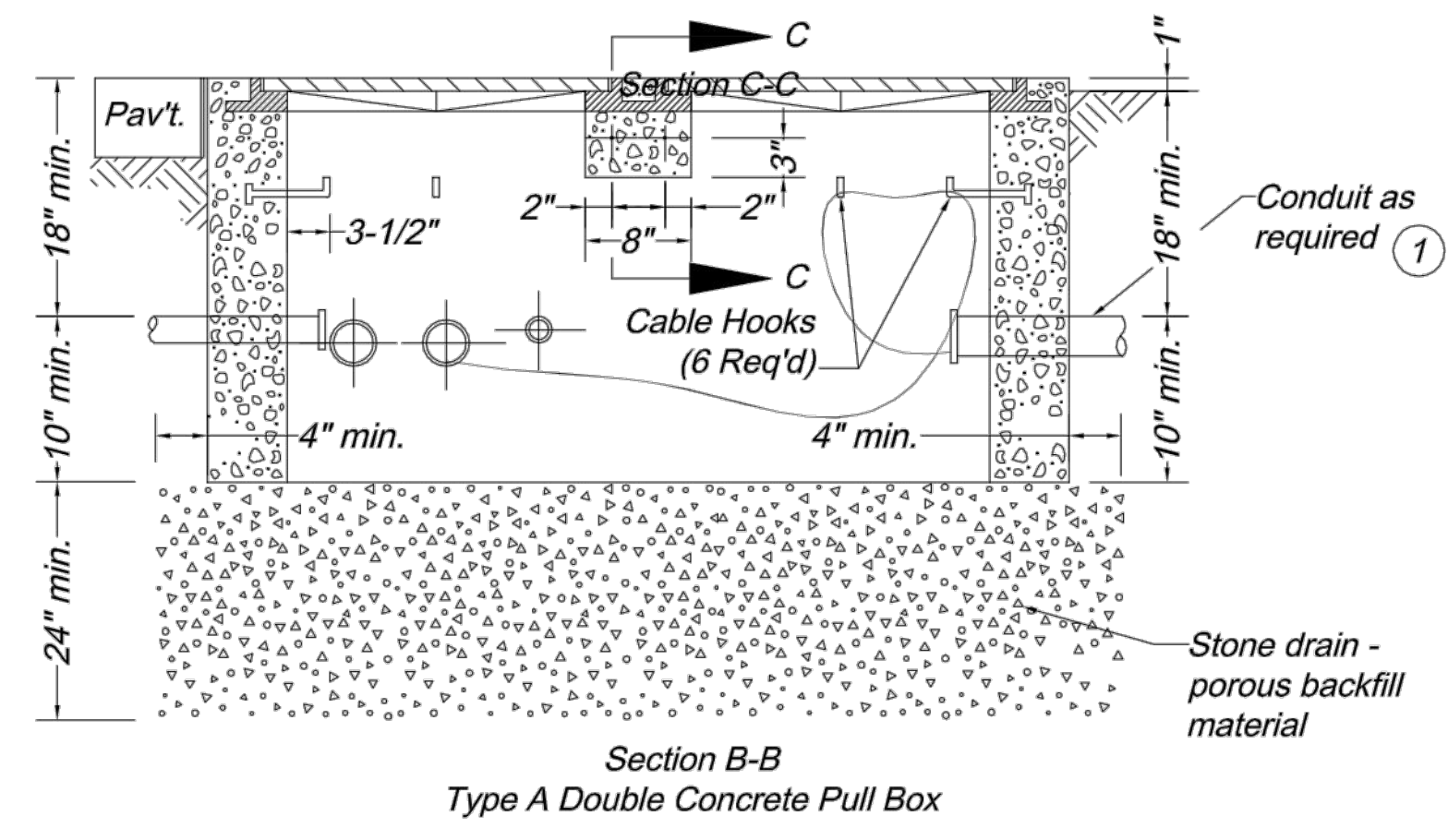
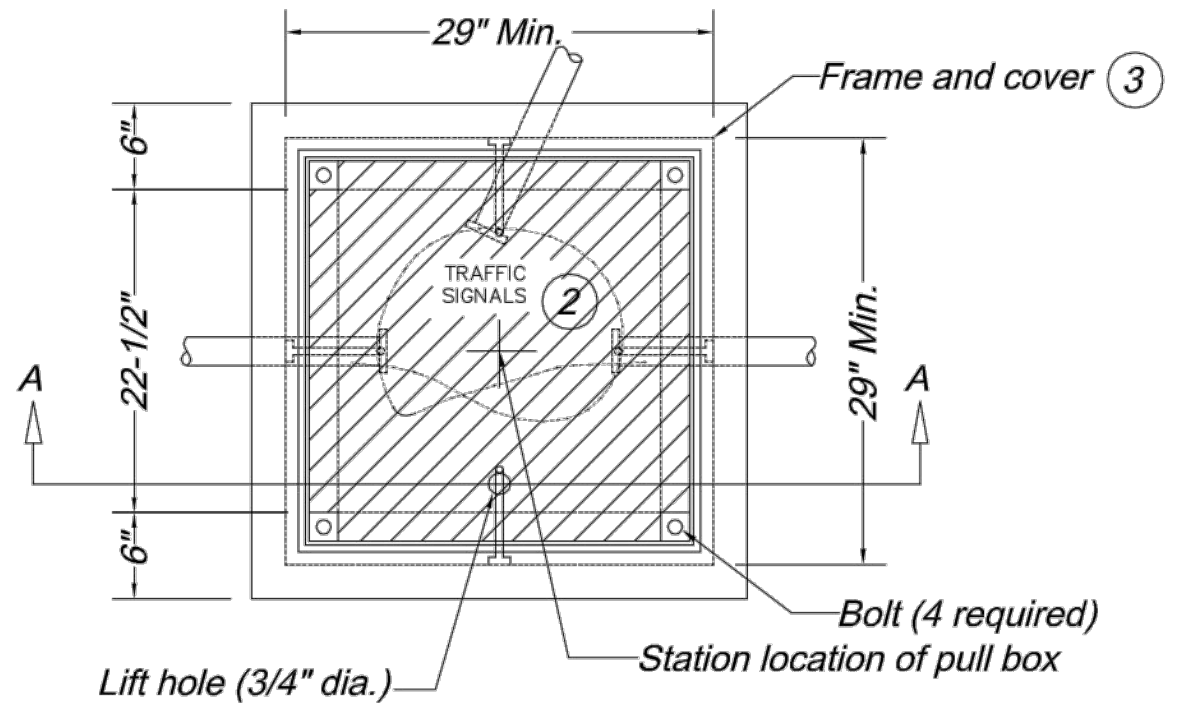


Number of Entering Conductors	Class	Preformed Pull Box Minimum Dimensions		
		A	B	C
< 23	1	17"	30"	20"
23 - 68	2	24"	36"	24"
> 68	3	30"	48"	24"

CLASS 1 OR 2 CLASS 3
PREFORMED PULL BOX COVER



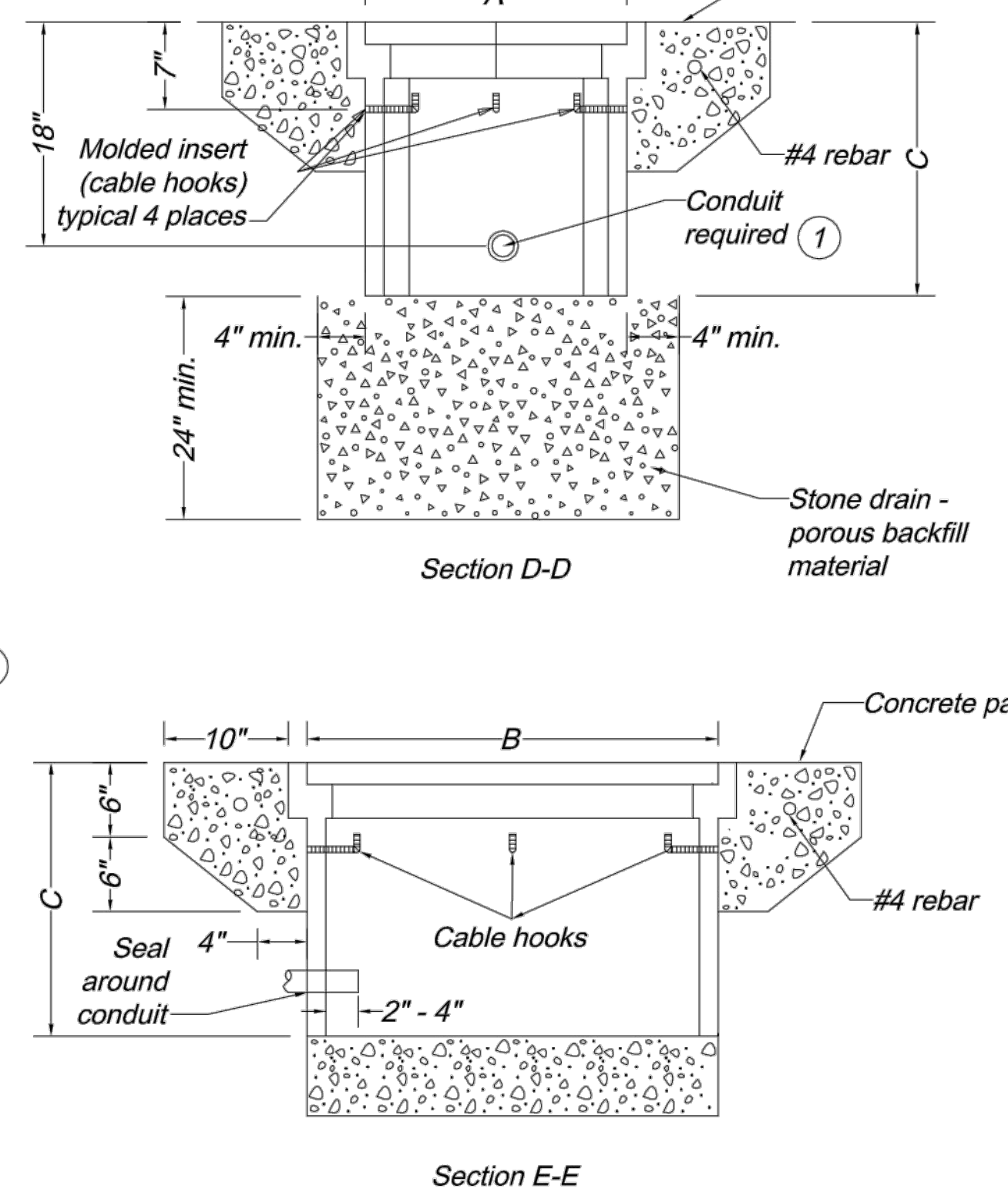
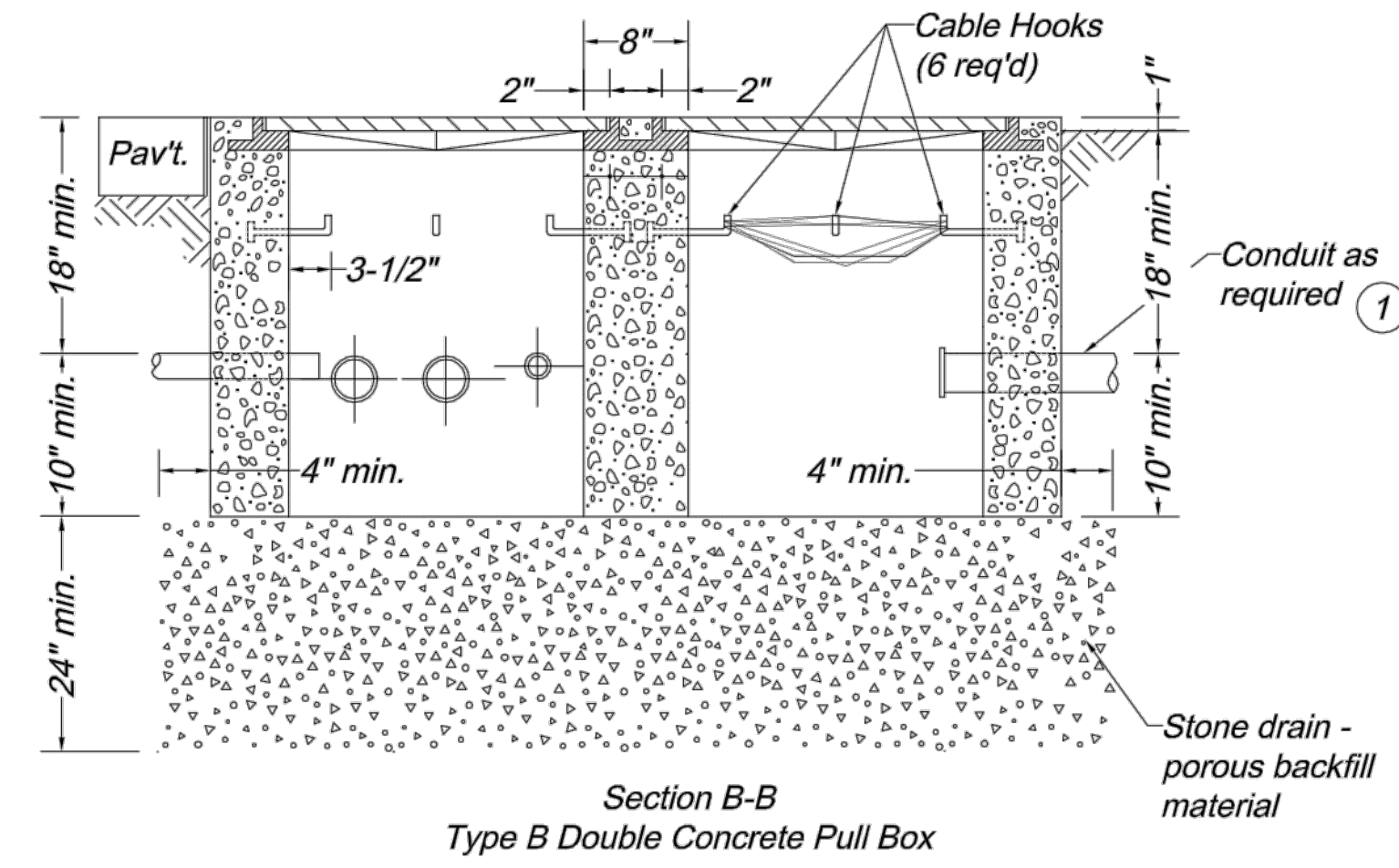
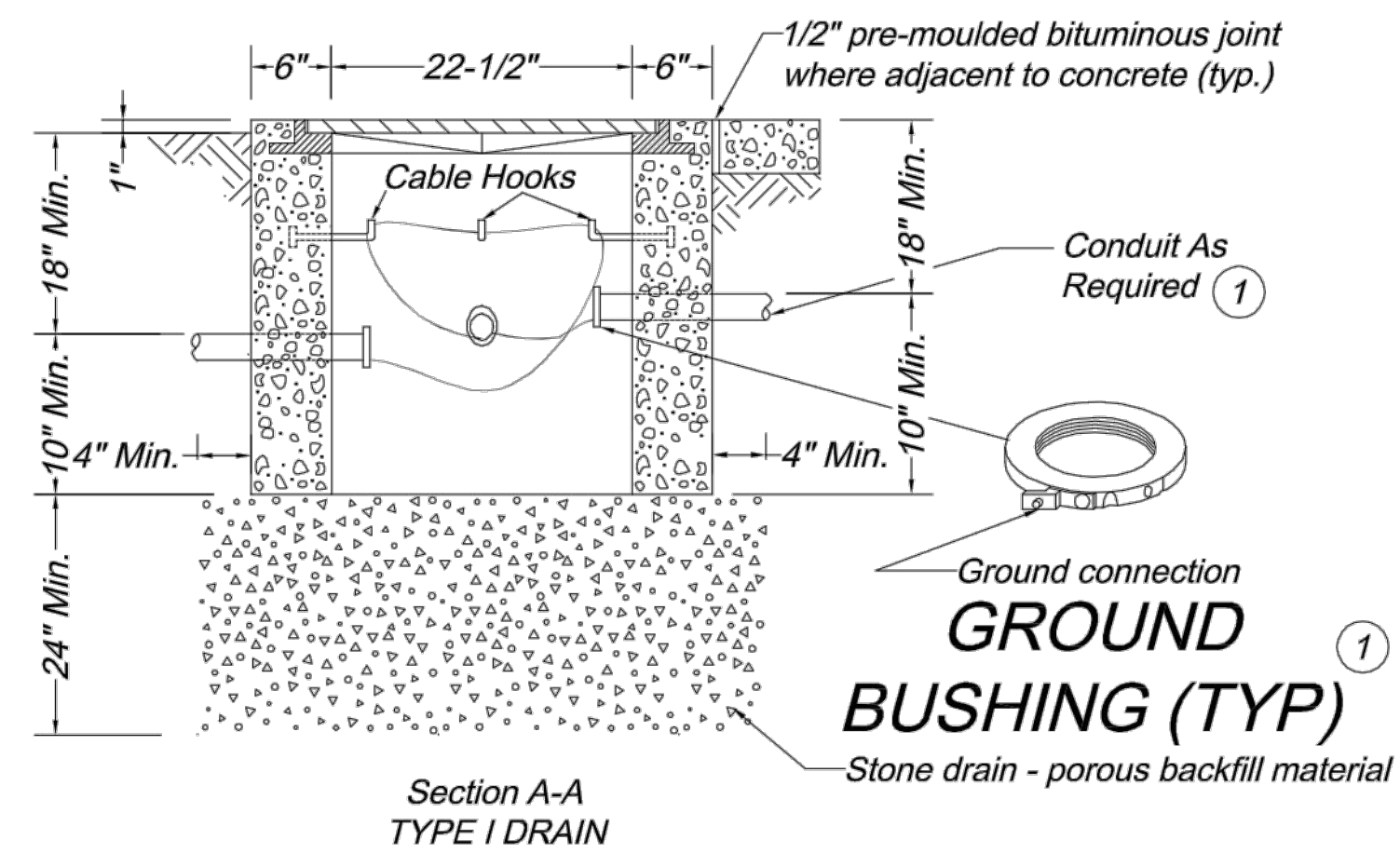
SECTION F-F
TYPICAL BOLT CLEANOUT



- 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.

If an extension is used with a preformed box, the lip of the extension may be interior or exterior. The extension shall be compatible and from the same manufacturer.
 If preformed pull boxes are specified, the contractor may use the standard concrete pull box in lieu of the Class 1 or 2 preformed pull box or the double concrete pull box, Type A, in lieu of the Class 3 preformed pull boxes.

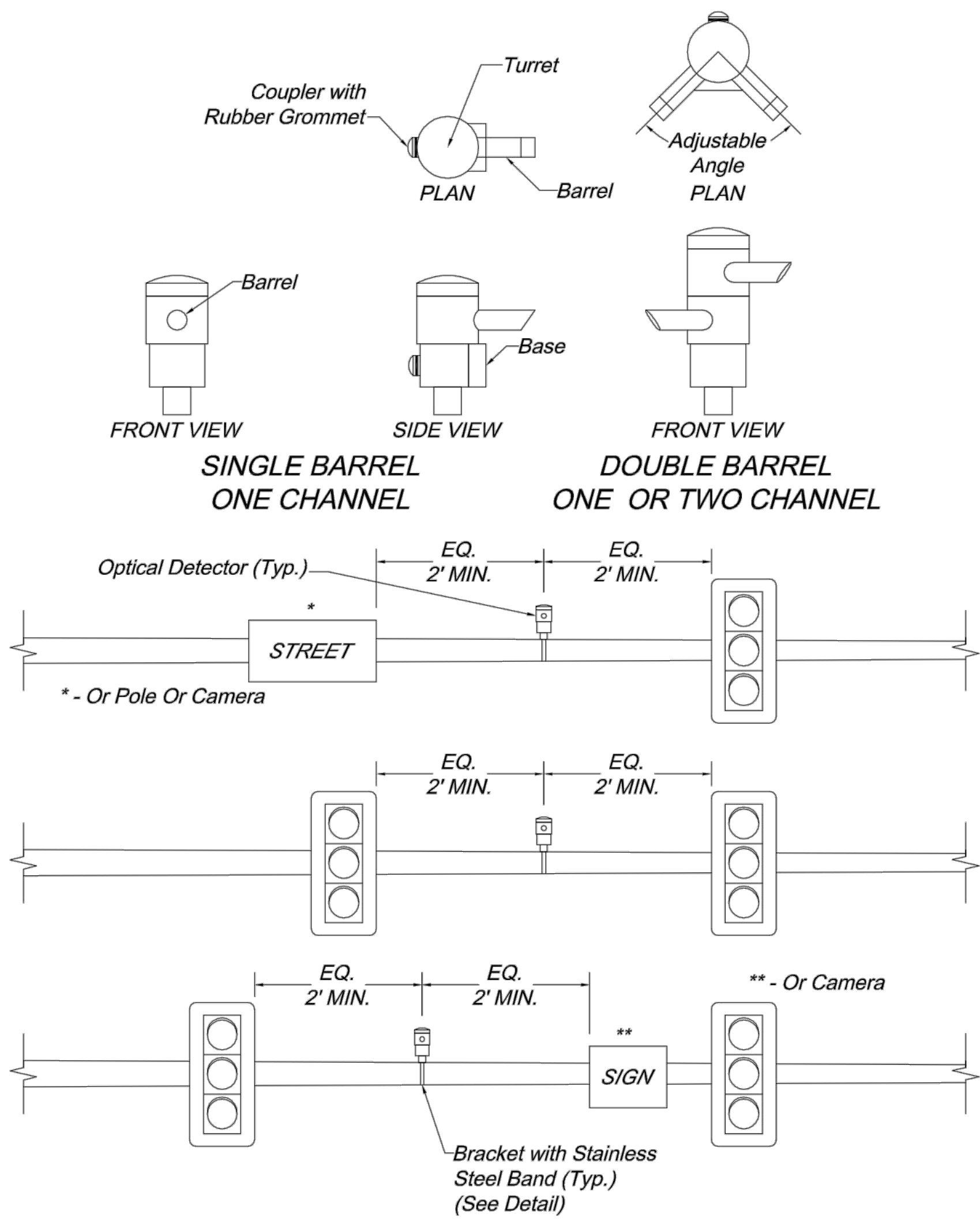


SINGLE CONCRETE PULL BOX

DOUBLE CONCRETE PULL BOX

PREFORMED PULL BOX





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

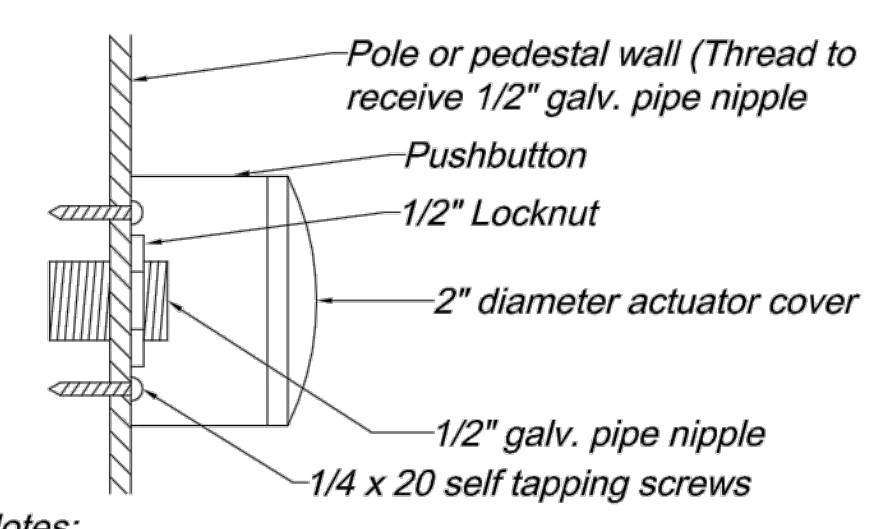
7. The Contractor shall install the equipment consistent with the equipment manufacturer's recommended installation procedures and interface diagrams in a neat and workmanlike manner. Emergency Vehicle Detection System shall be provided and installed by the contractor and shall consist of all detectors,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

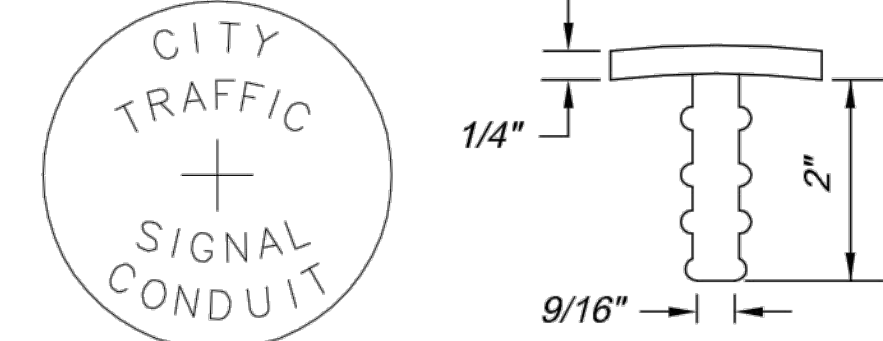
VIDEO DETECTION



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.

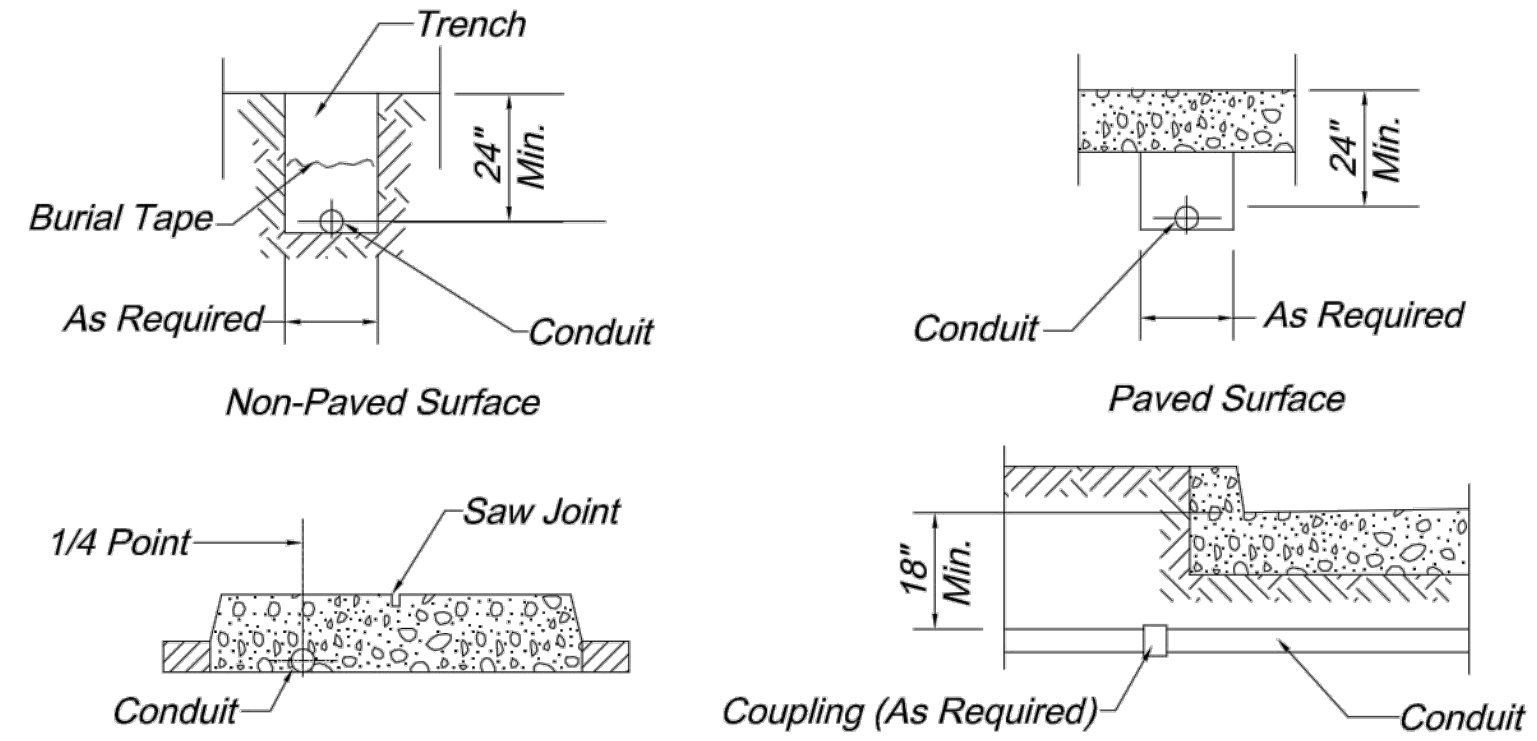
PUSH BUTTON MOUNT DETAIL



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.

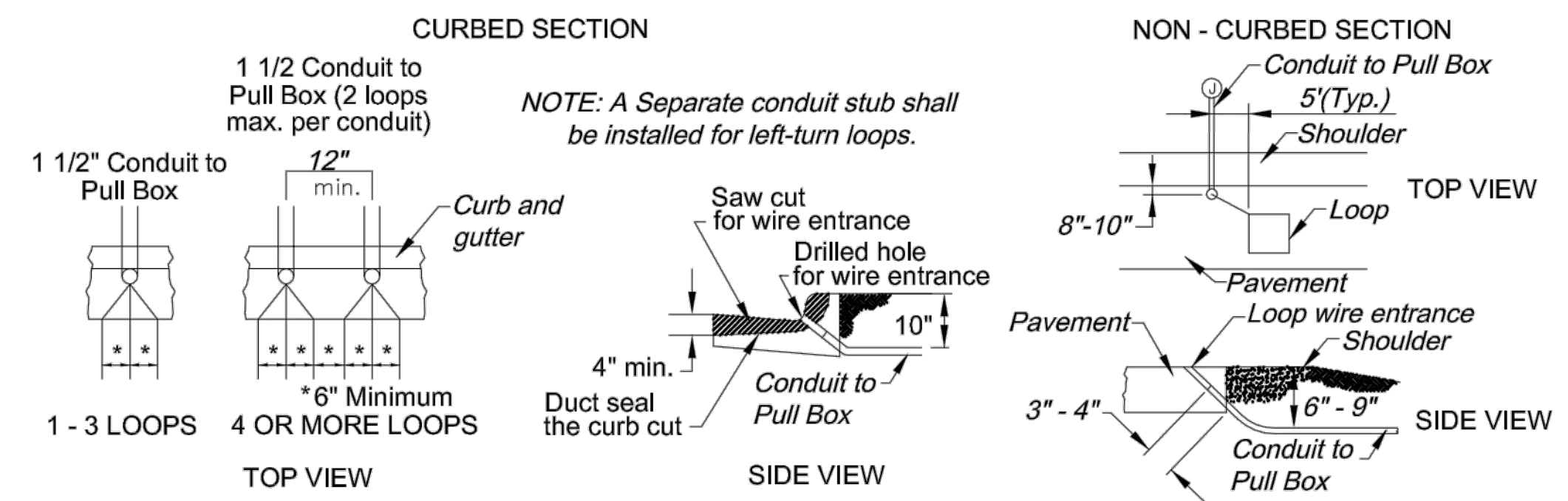


In Proposed Concrete Median On Existing Pavement 0.5% Minimum Slope

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.

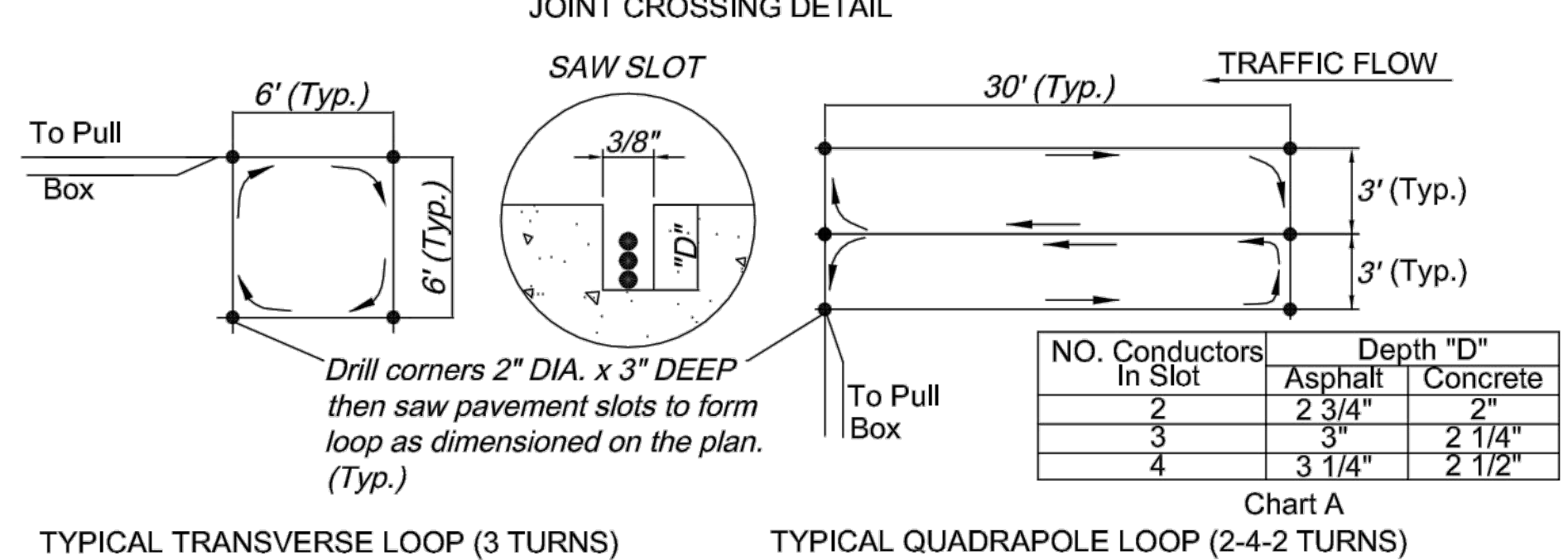
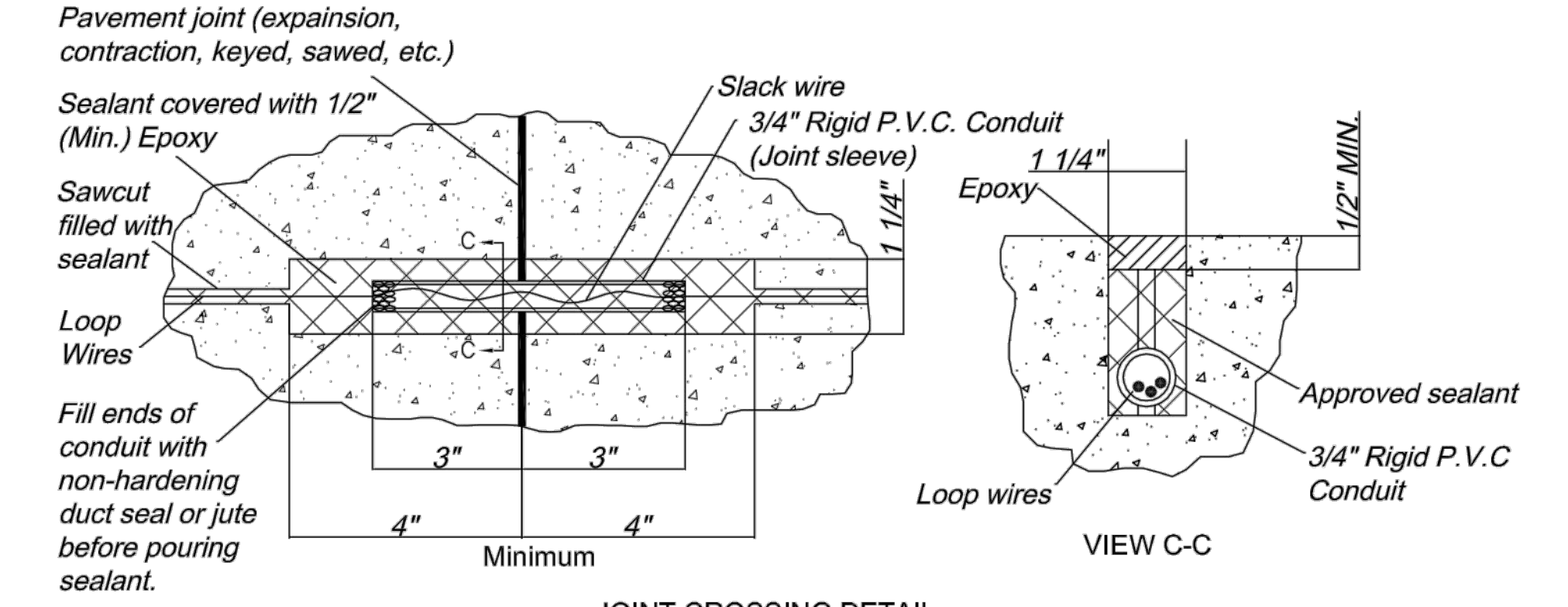
CONDUIT LOCATIONS



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



Loop Detection Notes:

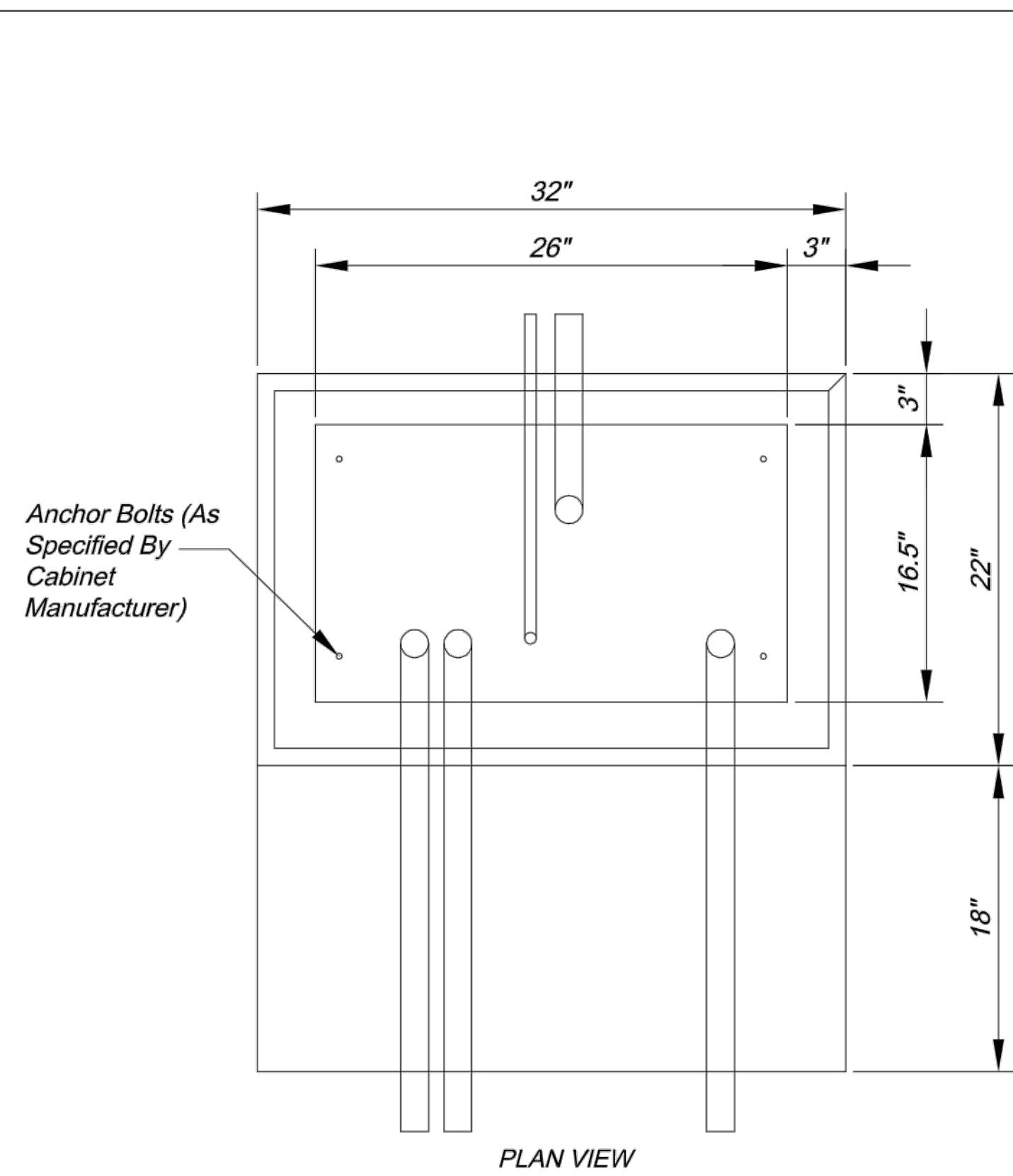
- Quadrupole loop to be one continuous wire placed in two turns. All loops to be wound in same direction, with start and end clearly marked at pull box.
- Transverse loop to be one continuous wire placed in three turns. All loops to be wound in same direction, with start and end clearly marked at pull 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

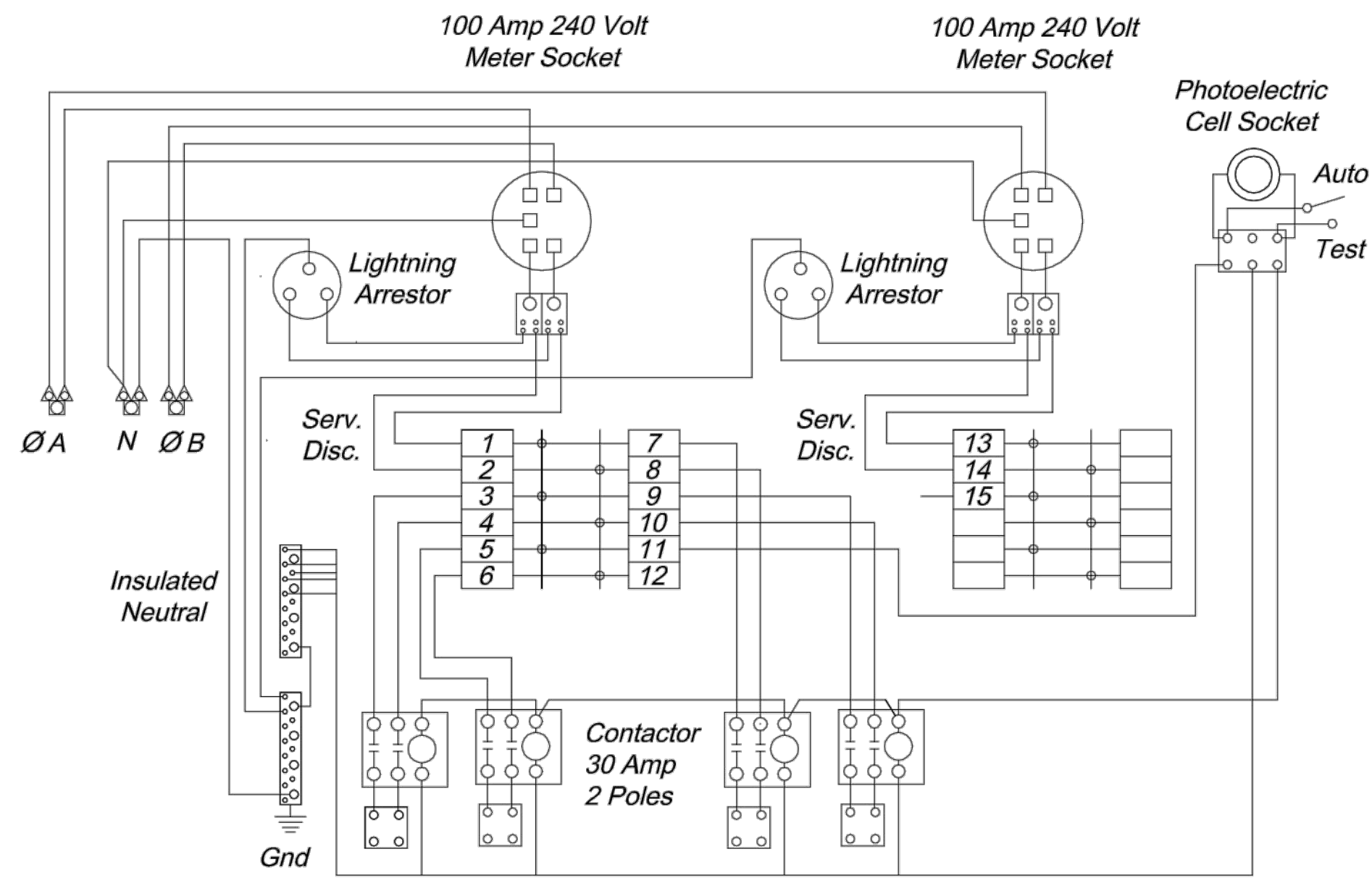
CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809

CONDUIT & DETECTION DETAILS
STANDARD DRAWING TS-7

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

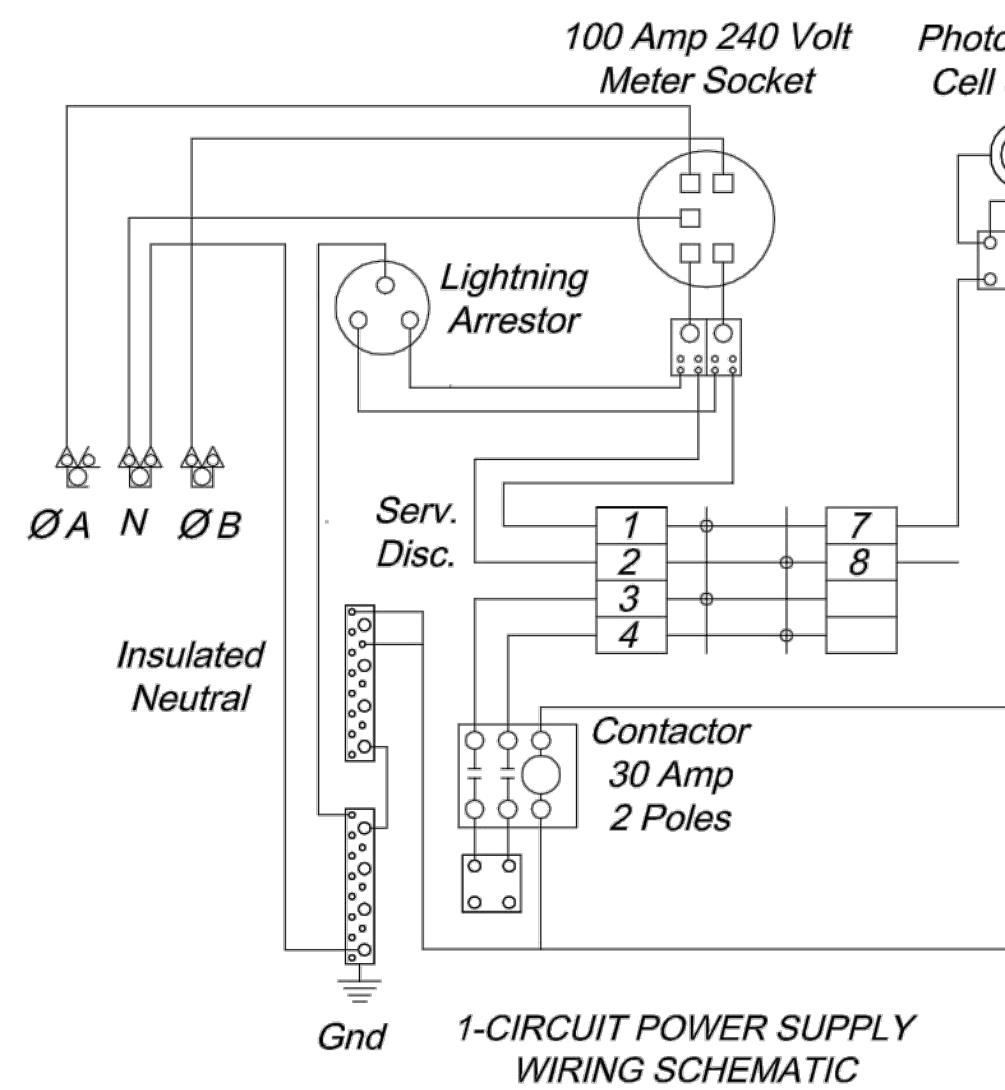


PLAN VIEW

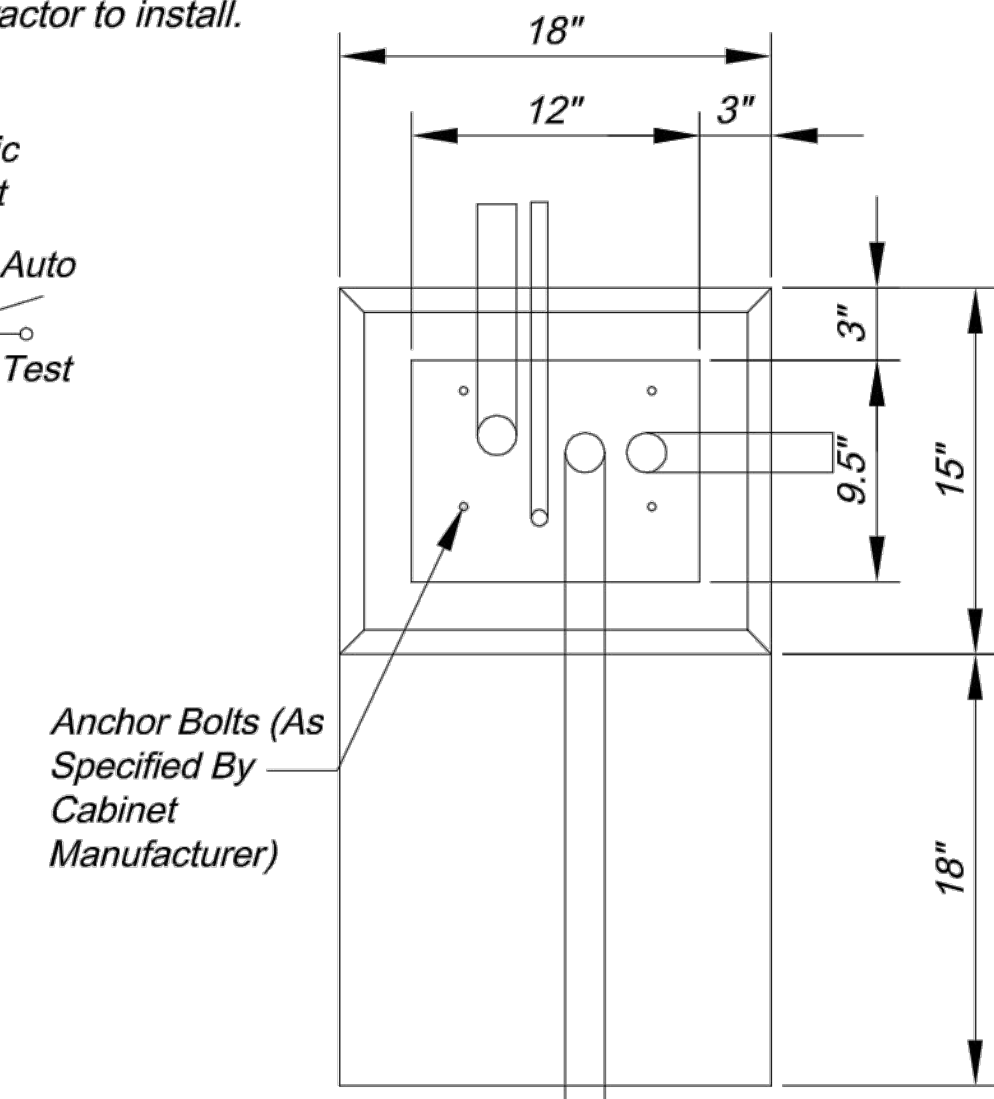


DUAL METER POWER SUPPLY WIRING SCHEMATIC

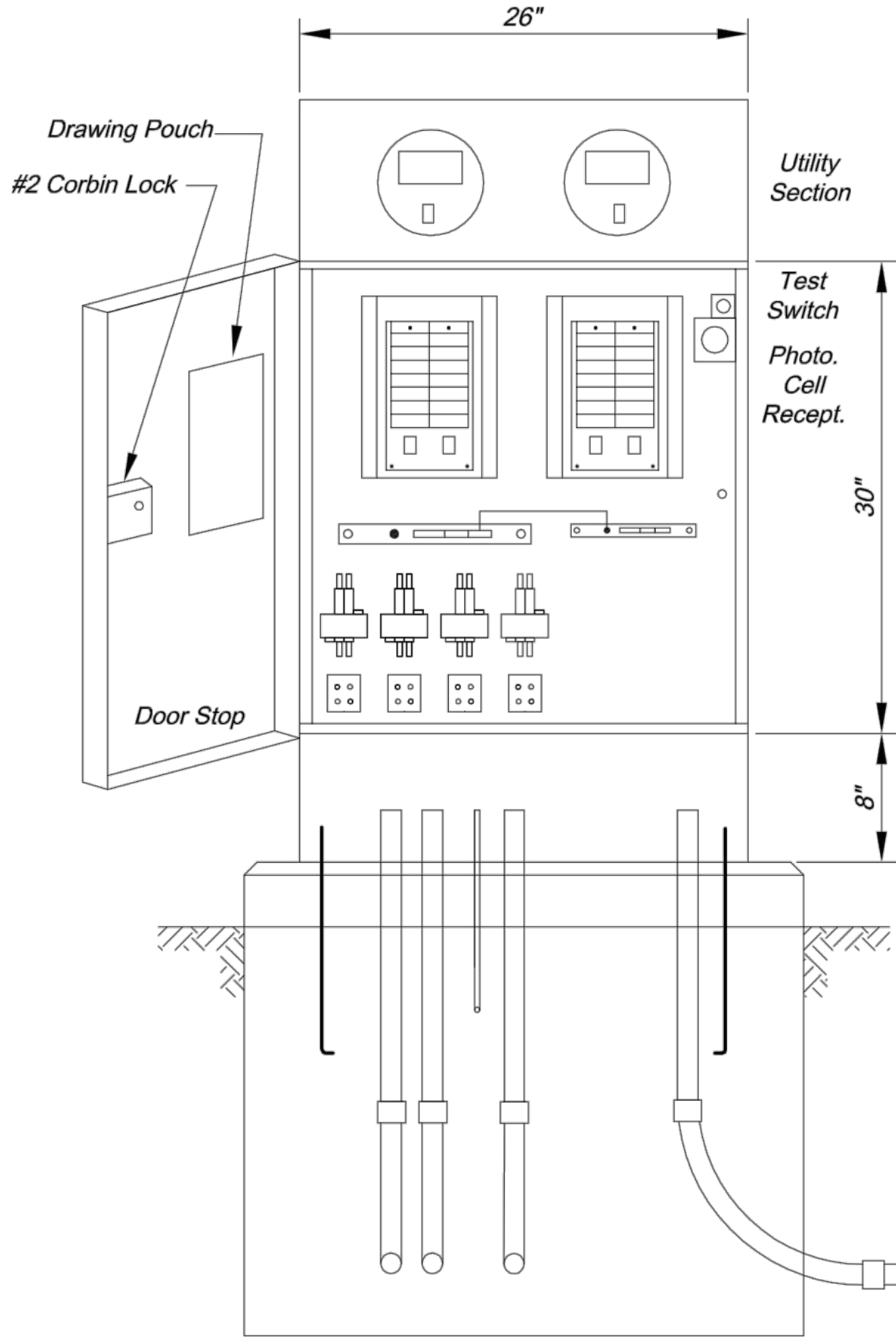
- NOTES:
1. Photoelectric cell should be oriented to the north or east.
 2. Seal around joint between cabinet and base with lifetime silicone caulk.
 3. All exposed edges of the base should have a 1" chamfer
 4. If base is adjacent to a traffic signal controller, raised portion of base (above finished 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

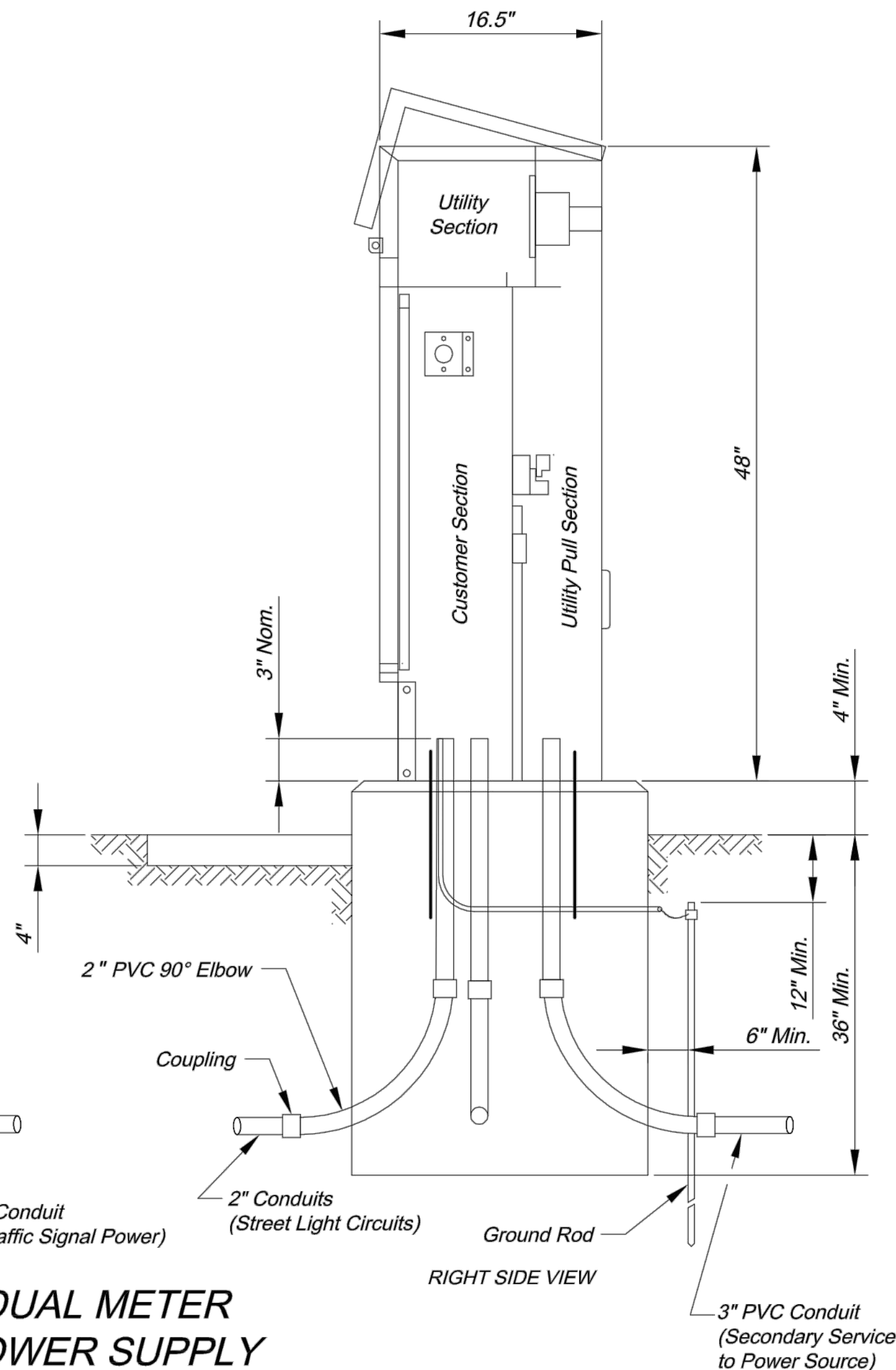


PLAN VIEW



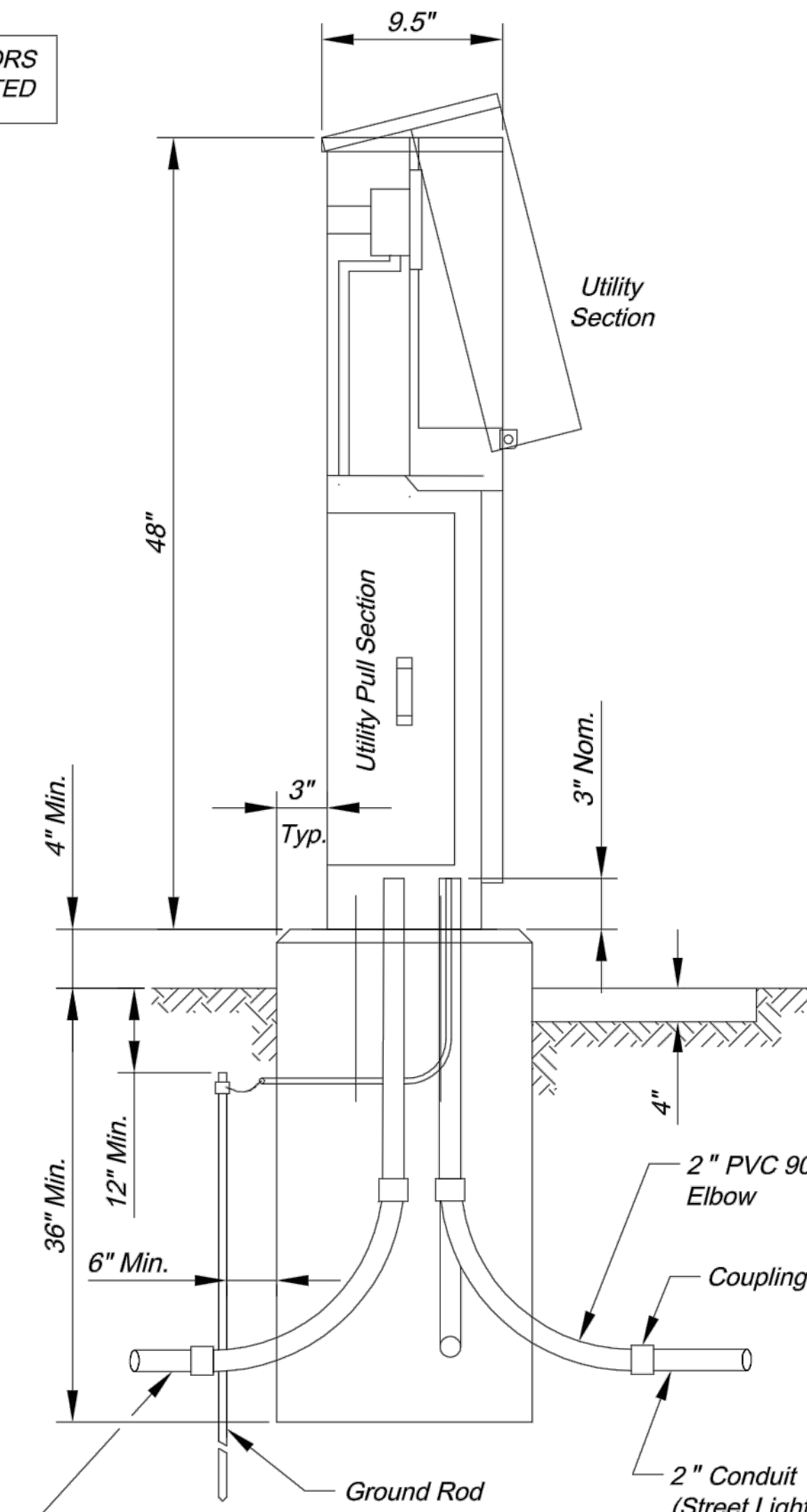
FRONT VIEW

DUAL METER POWER SUPPLY



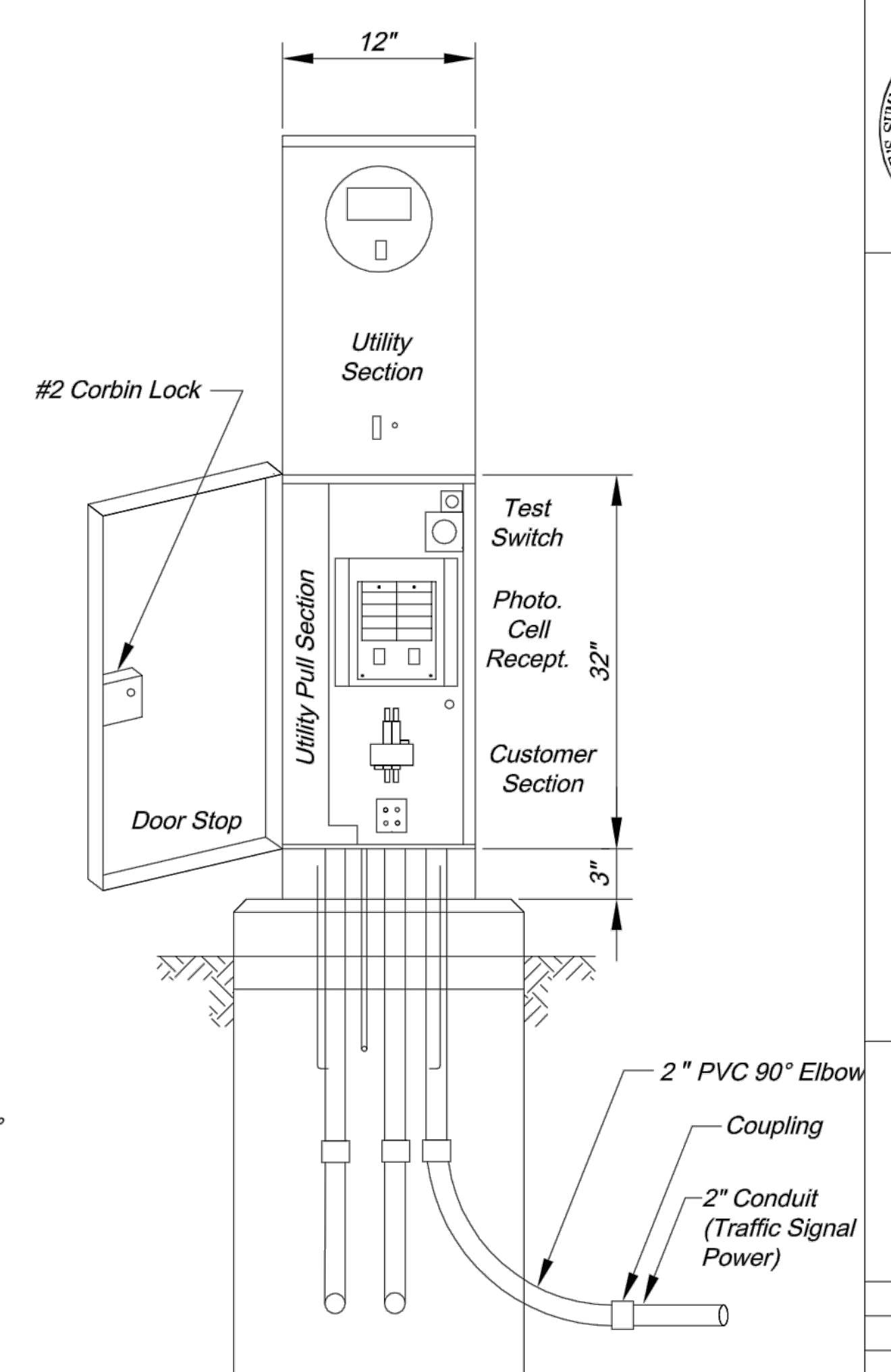
RIGHT SIDE VIEW

FUSED CONTACTORS ARE NOT PERMITTED



LEFT SIDE VIEW

1 - CIRCUIT POWER SUPPLY

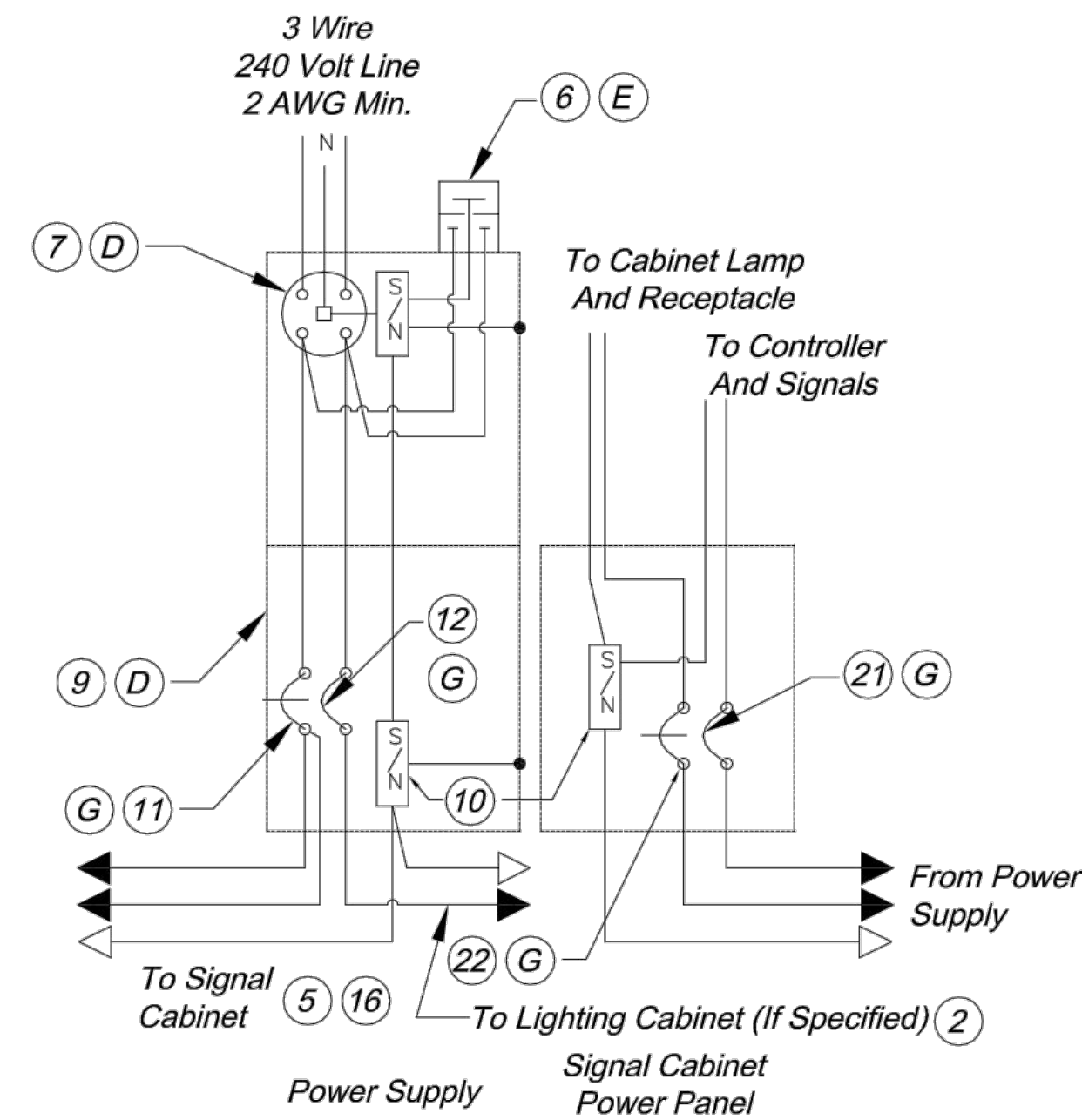


FRONT VIEW

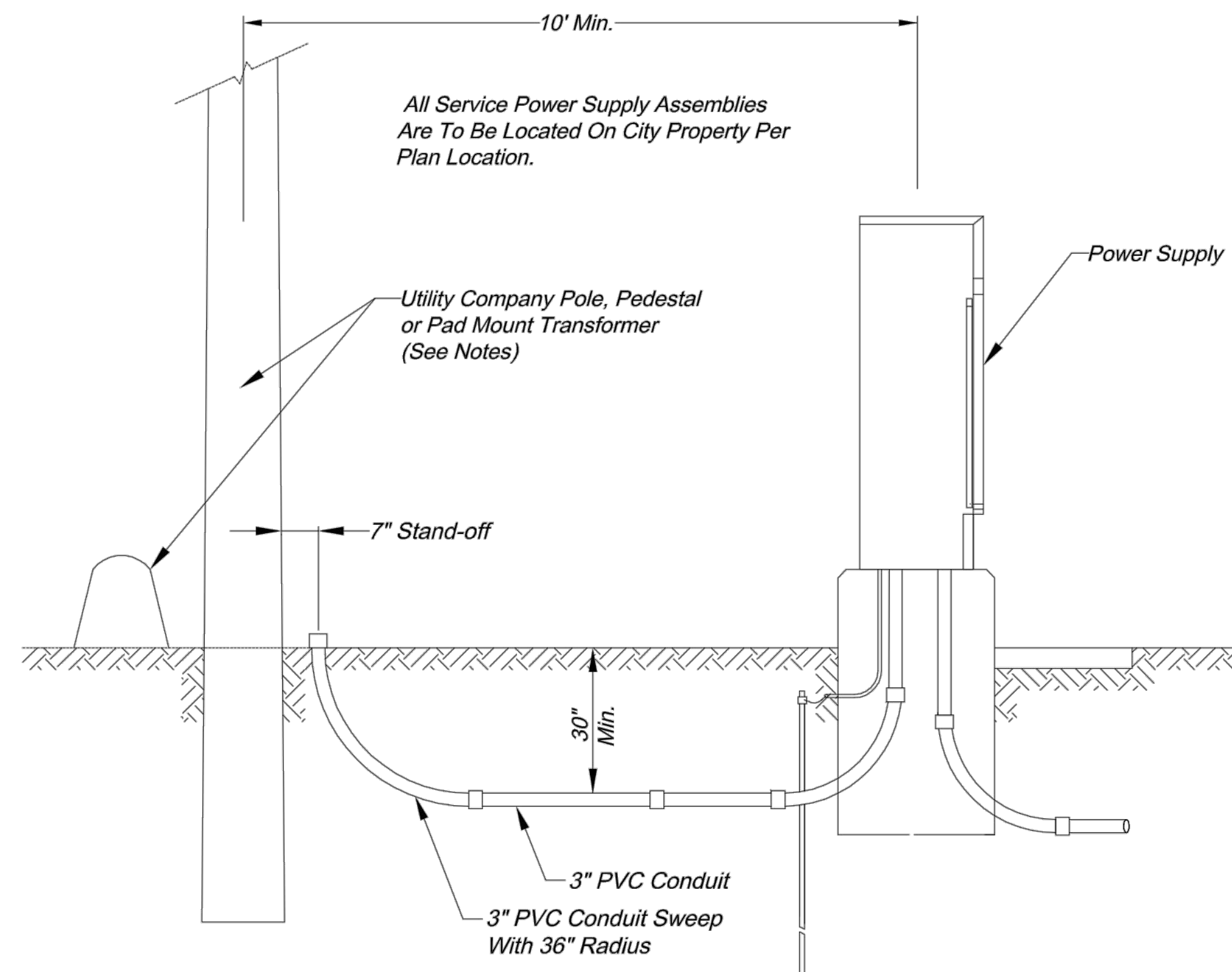
CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809

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

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



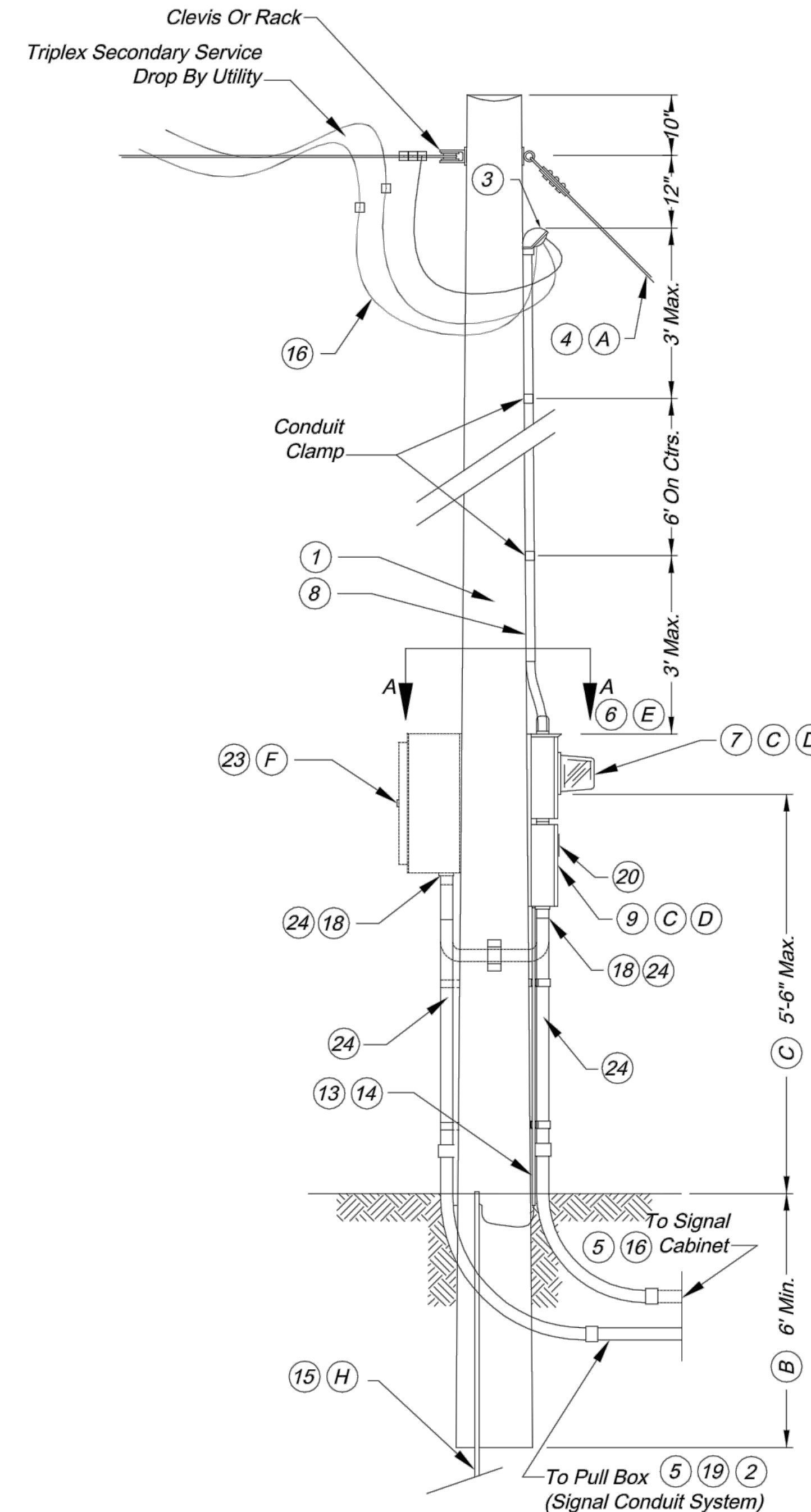
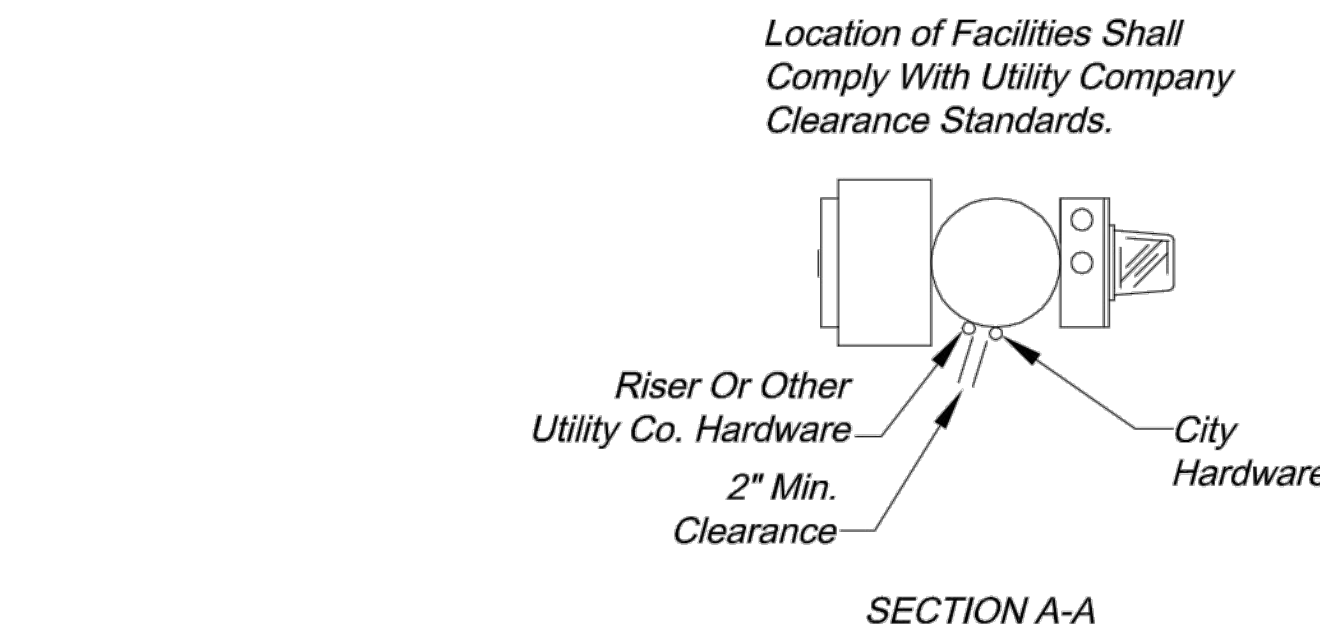
OVERHEAD SERVICE POWER SUPPLY
WIRING SCHEMATIC
SIGNALS AND/OR LIGHTING



SECONDARY SERVICE CONNECTION DETAILS

NOTES:

- 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.
- Contractor shall install conduit in a trench to within 24" of pedestals or pad mount transformers and leave a 36" x 36" access hole in the ground. Contractor shall keep open trench covered and promptly backfill access hole when service is completed.



**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.

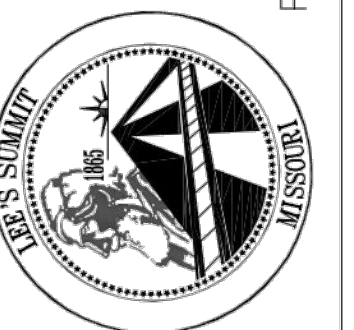
The utility company shall be notified 30 days prior to date service will be required.

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.

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
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220 SE. GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
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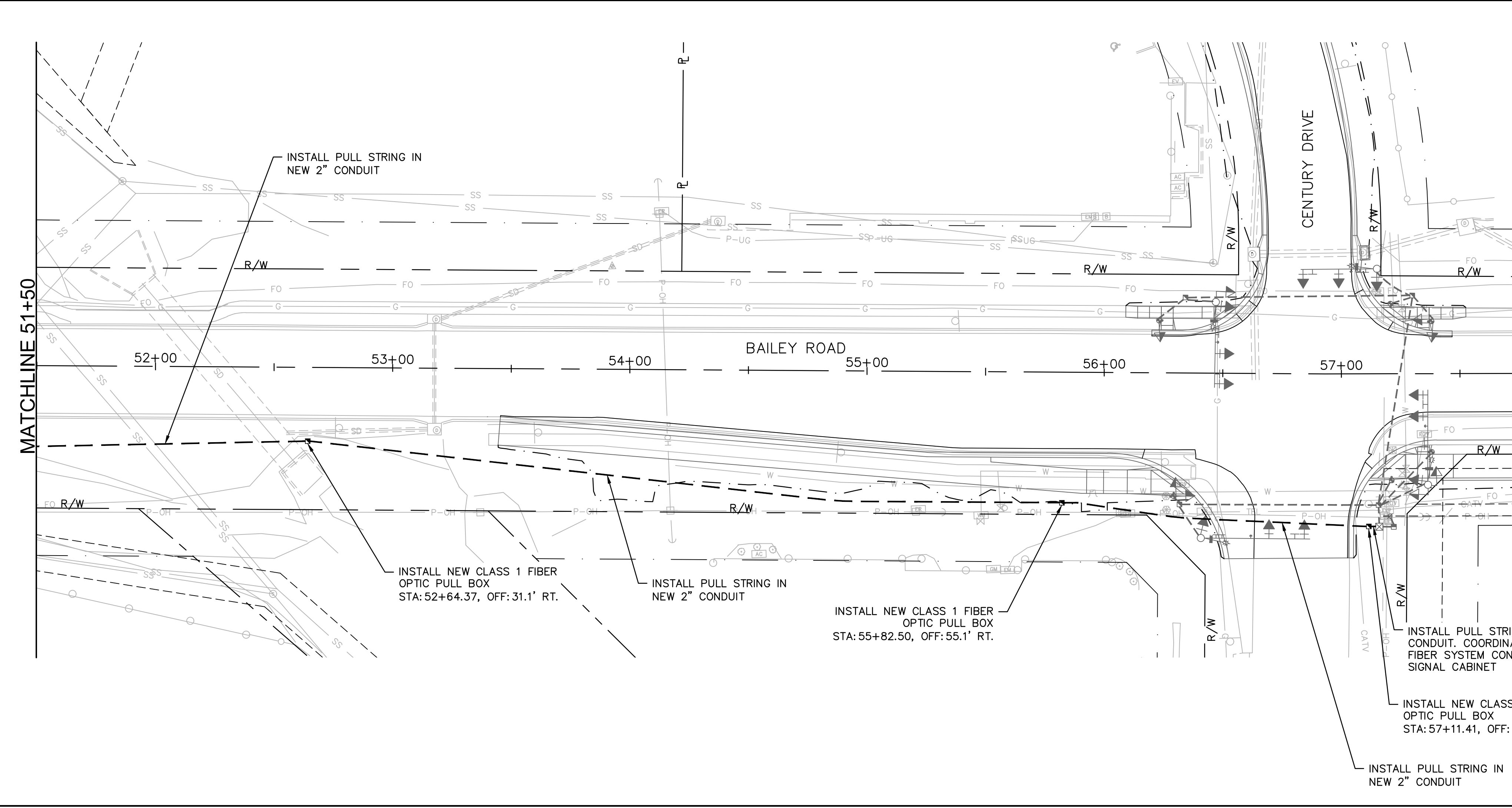
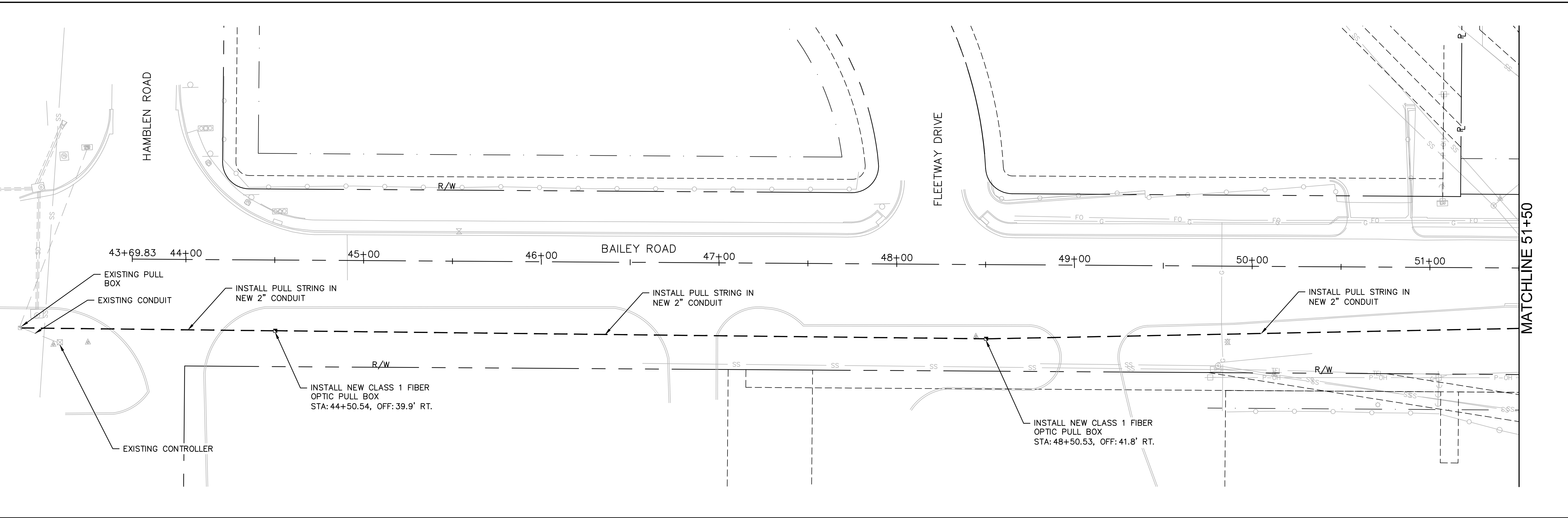
POWER SUPPLY ASSEMBLY
240/120 VOLT SERVICE

STANDARD DRAWING TS-9

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

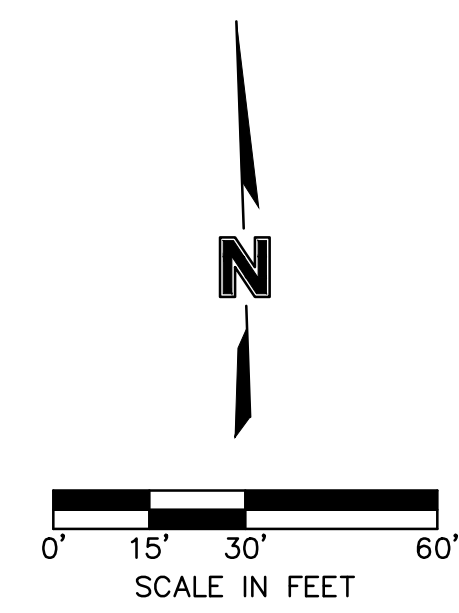
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USER: rhailer
 V_XBOU-2_00103 F_PBLK_0200103



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

- 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.



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.ollson.com

FINAL PLANS
 NOT FOR CONSTRUCTION

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

FIBER INTERCONNECT
 BAILEY ROAD

LEE'S SUMMIT MIDDLE SCHOOL #4
 PUBLIC ROAD IMPROVEMENTS

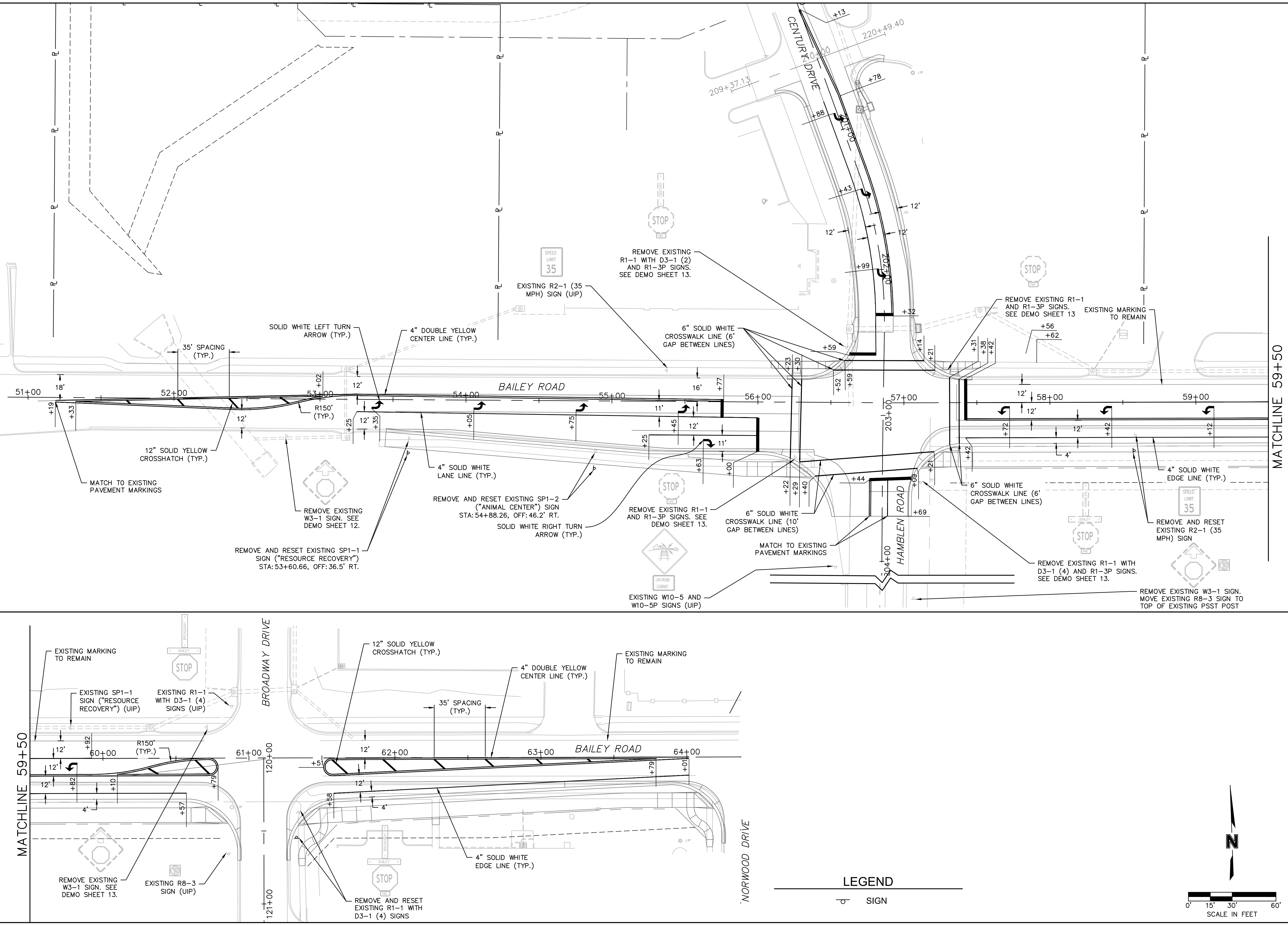
LEE'S SUMMIT, MISSOURI

2021

C.O.A. NO.: 001592
 DRAWN BY: JRC
 CHECKED BY: JAB
 APPROVED BY: JSS
 QA/QC BY: KJR
 PROJECT NO.: 020-0103
 DWG NO.: FBR_0200103
 DATE: 4/15/2021

SHEET
 74 OF 100

DWG: \\lre-oma-fst\kcs_projects\2020\0001-0500\020-0103\40-Design\AutoCAD\Final_Plans\Sheets\TFTC\PAVEMENT MARKING & SIGNING PLAN_LEE'S SUMMIT SET\F_SAS_0200103.dwg USER: rholler
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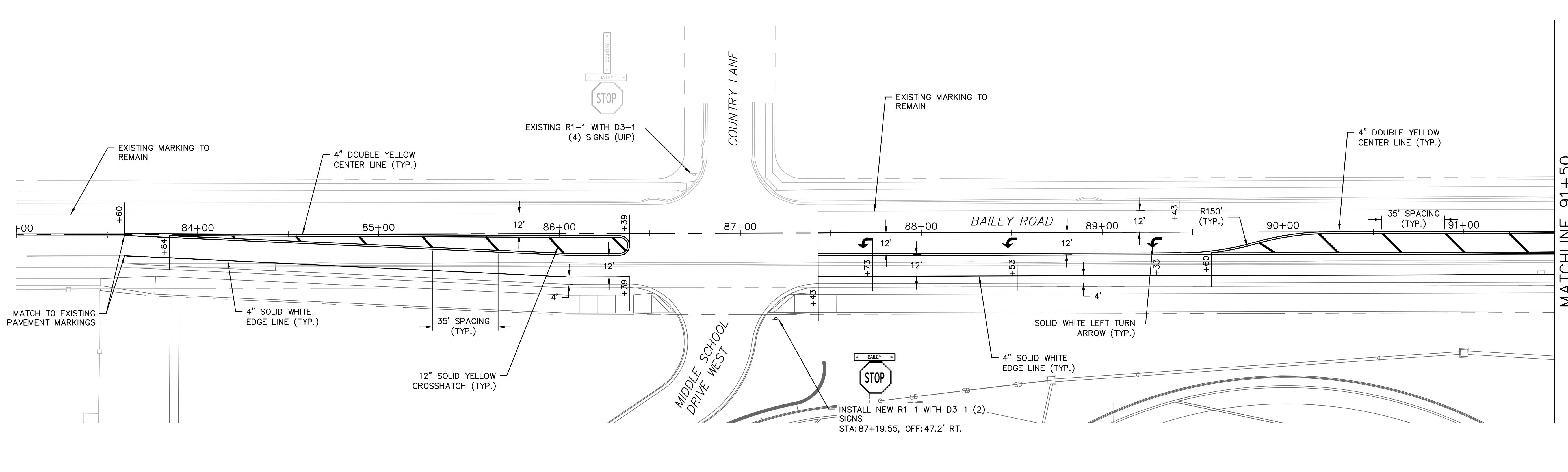
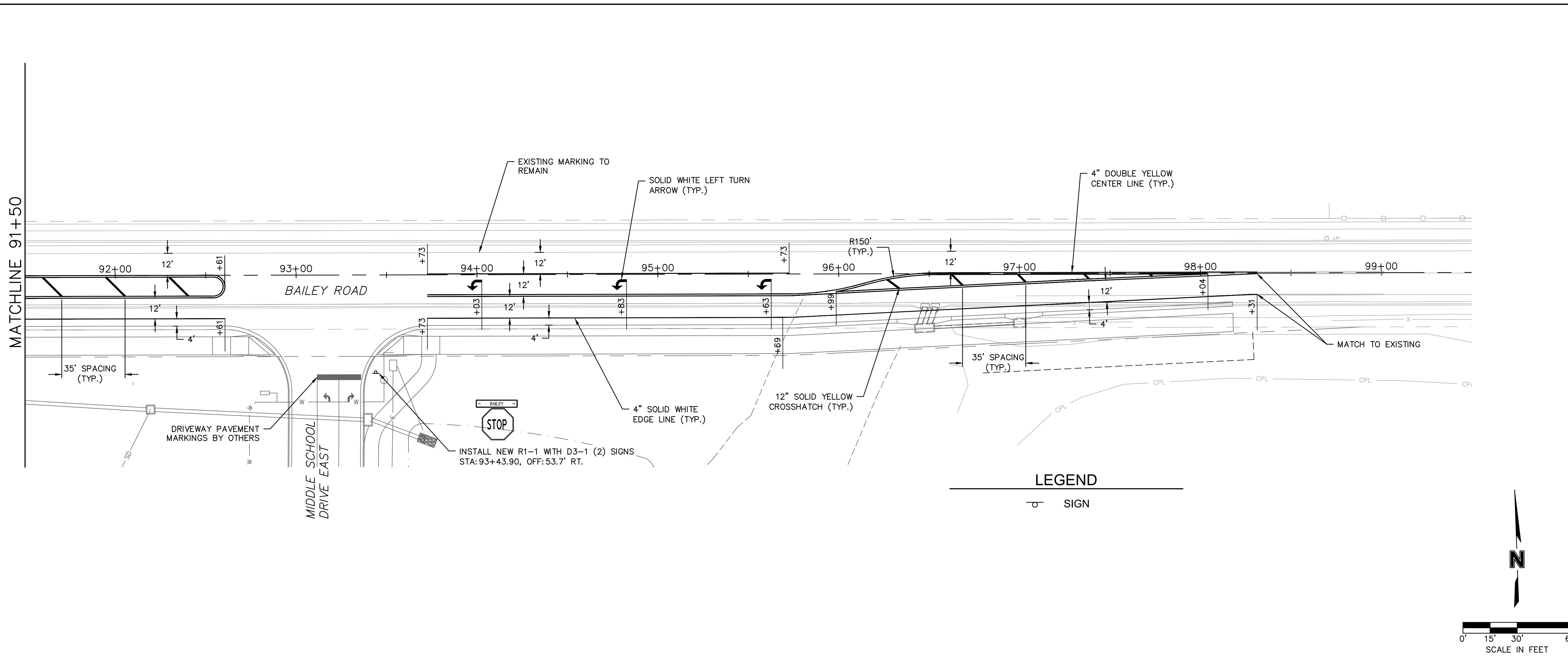
MATCHLINE 59+50

MATCHLINE 59+50

MATCHLINE 59+50

		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.olson.com	
		FINAL PLANS NOT FOR CONSTRUCTION	
PAVEMENT MARKING AND SIGNING PLAN BAILEY ROAD	REVISIONS DESCRIPTION BY	REVISIONS	
	DATE REV. NO.	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: JSS QA/QC BY: KJR PROJECT NO.: 020-0103 DWG NO.: F_SAS_0200103 DATE: 4/15/2021		SHEET 78 OF 100	

DWG: \\lfe-oma-fst\k_c_projects\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\TFTC\PAVEMENT MARKING & SIGNING PLAN\LEE'S SUMMIT SET\F_SAS_0200103.dwg
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MATCHLINE 91+50

MATCHLINE 91+50

LEGEND

○ SIGN

PAVEMENT MARKING AND SIGNING PLAN
 BAILEY ROAD

LEE'S SUMMIT MIDDLE SCHOOL #4
 PUBLIC ROAD IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

REVISIONS

2021

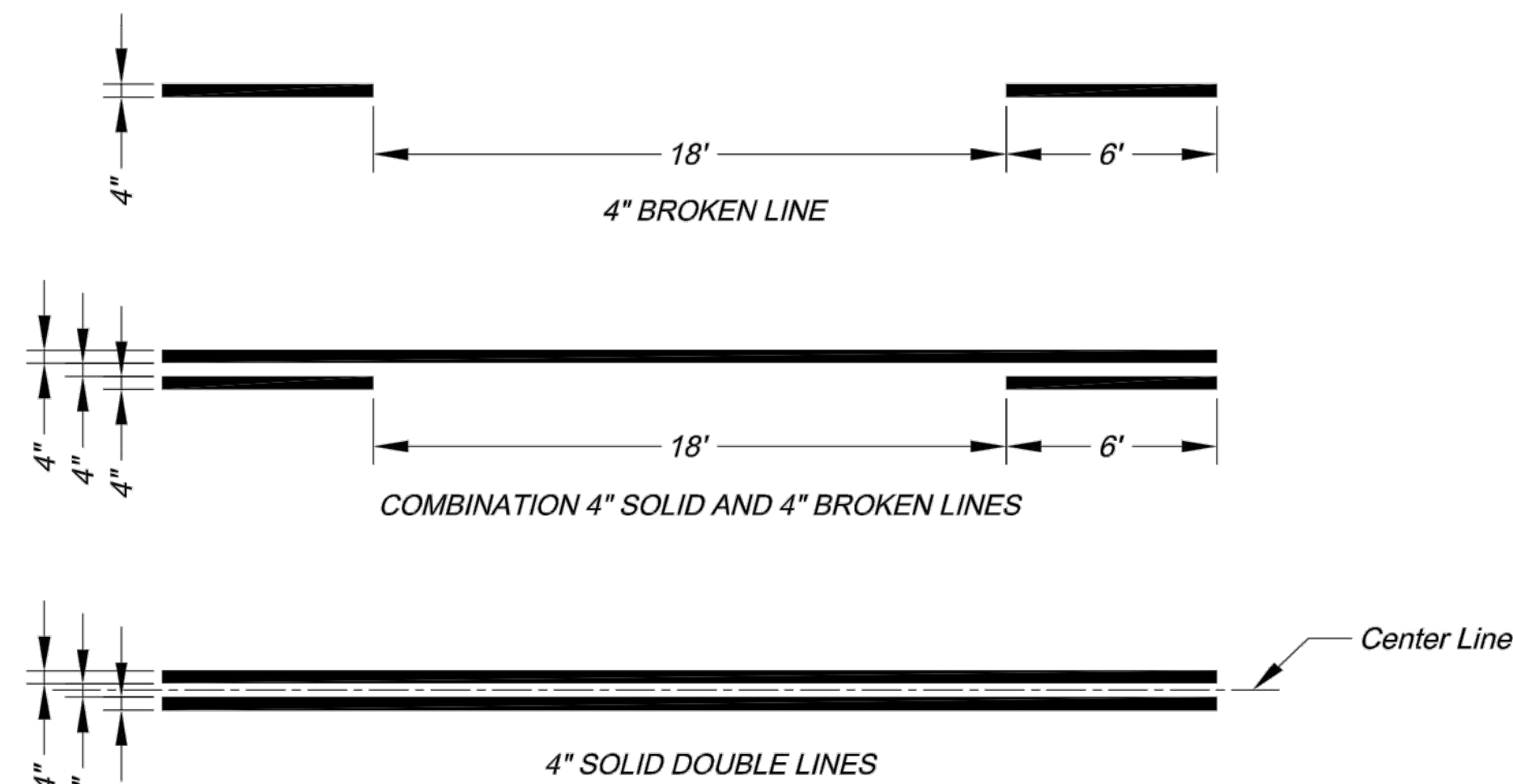
FINAL PLANS
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 7301 West 133rd Street, Suite 200 TEL: 913.381.1170
 Overland Park, KS 66213-4760 FAX: 913.381.1174 www.ollson.com

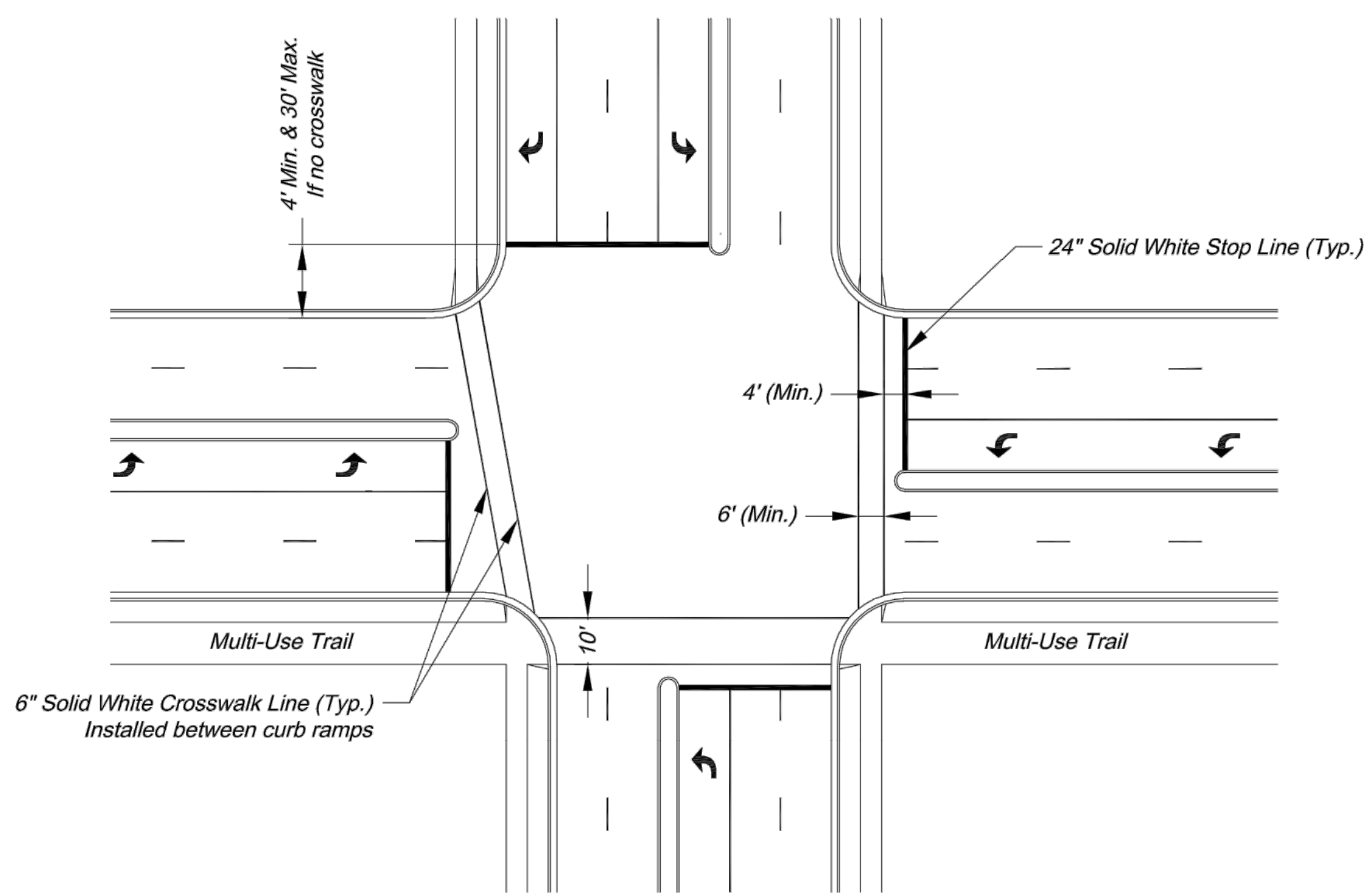
C.O.A. NO.: 001592
 DRAWN BY: JRC
 CHECKED BY: JAB
 APPROVED BY: JSS
 QA/QC BY: KJR
 PROJECT NO.: 020-0103
 DWG NO.: F_SAS_0200103
 DATE: 4/15/2021

SHEET
 79 OF 100



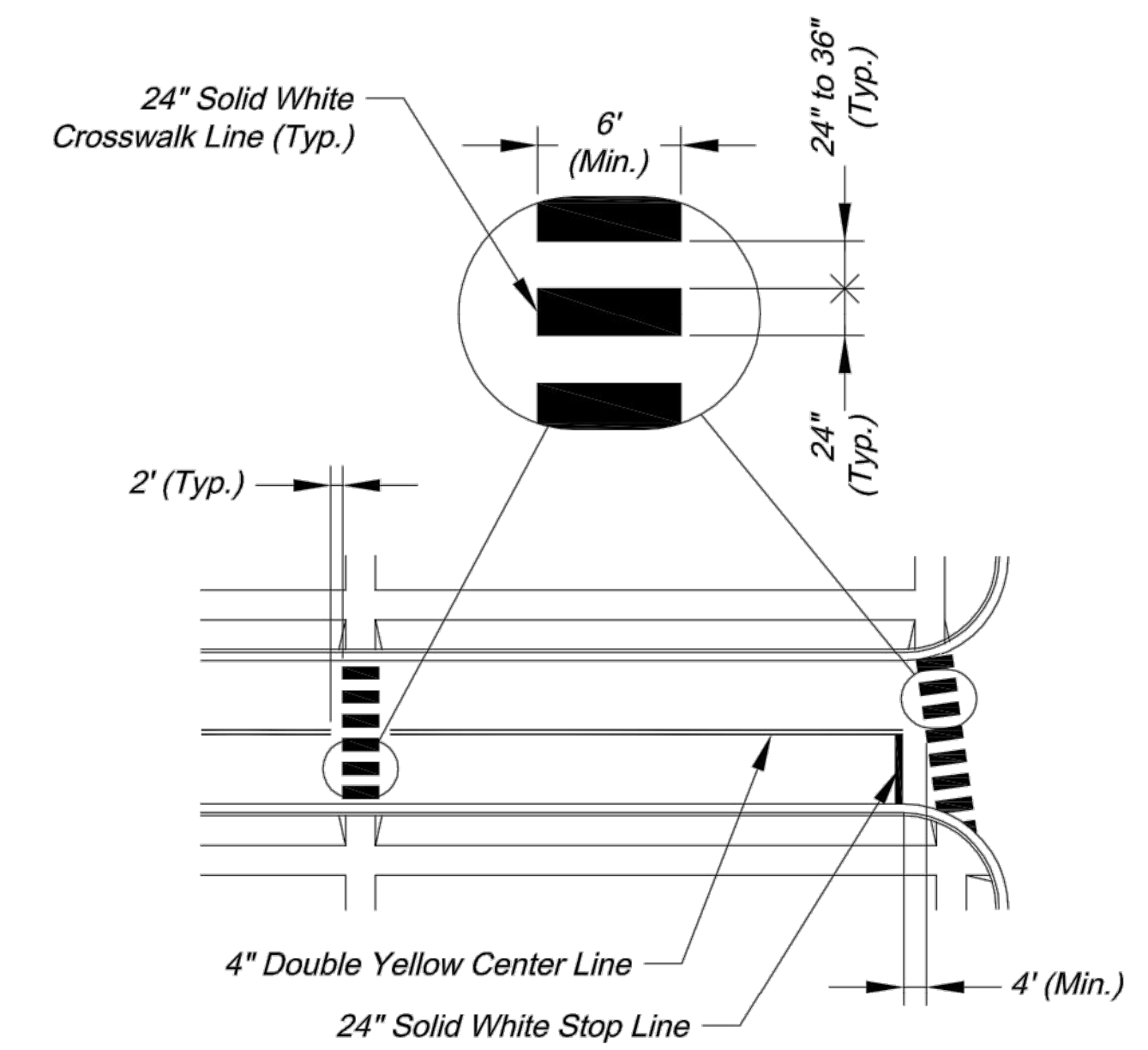
TYPICAL LINE DETAILS

- 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.

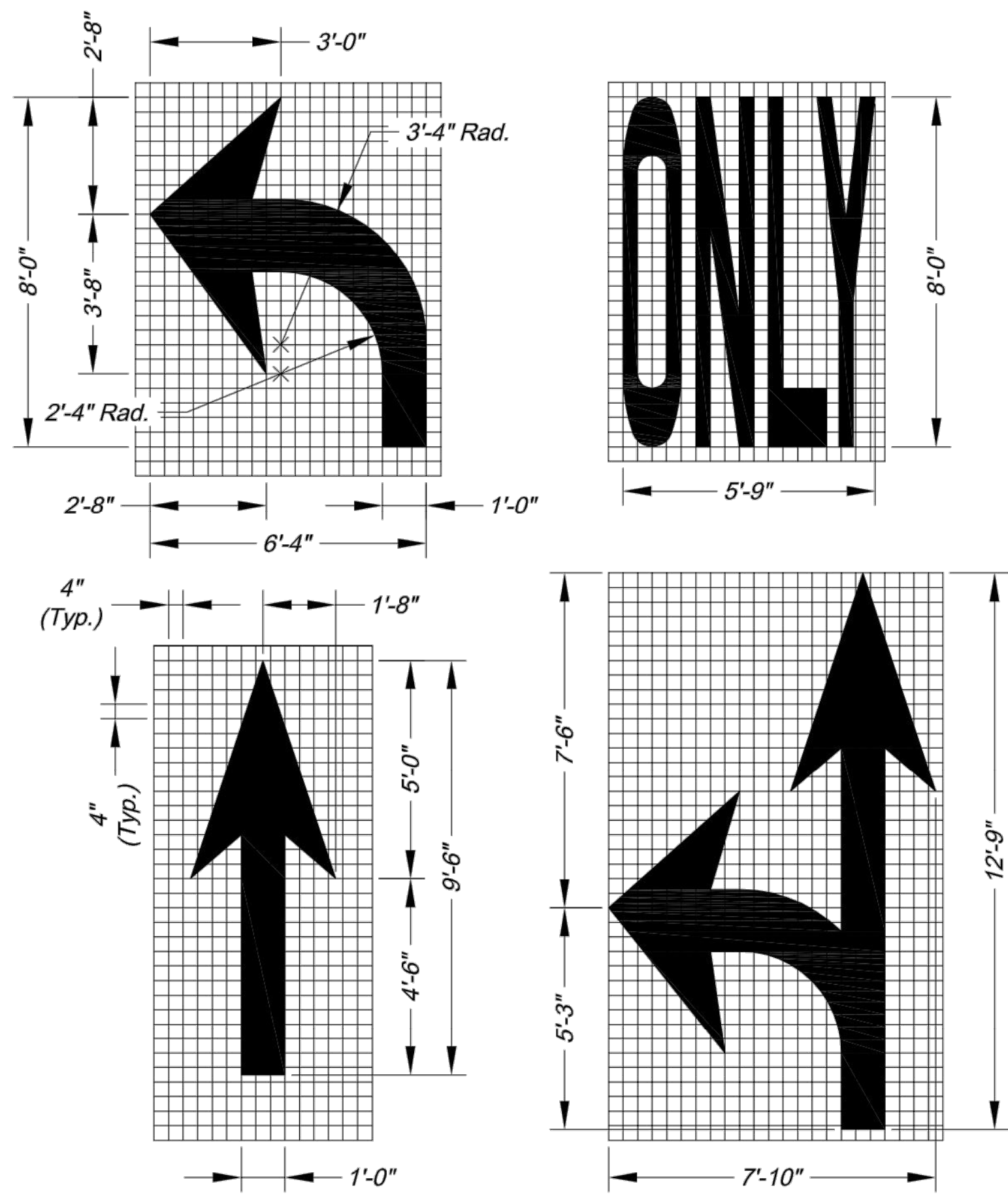


TYPICAL INTERSECTION MARKINGS

- 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.

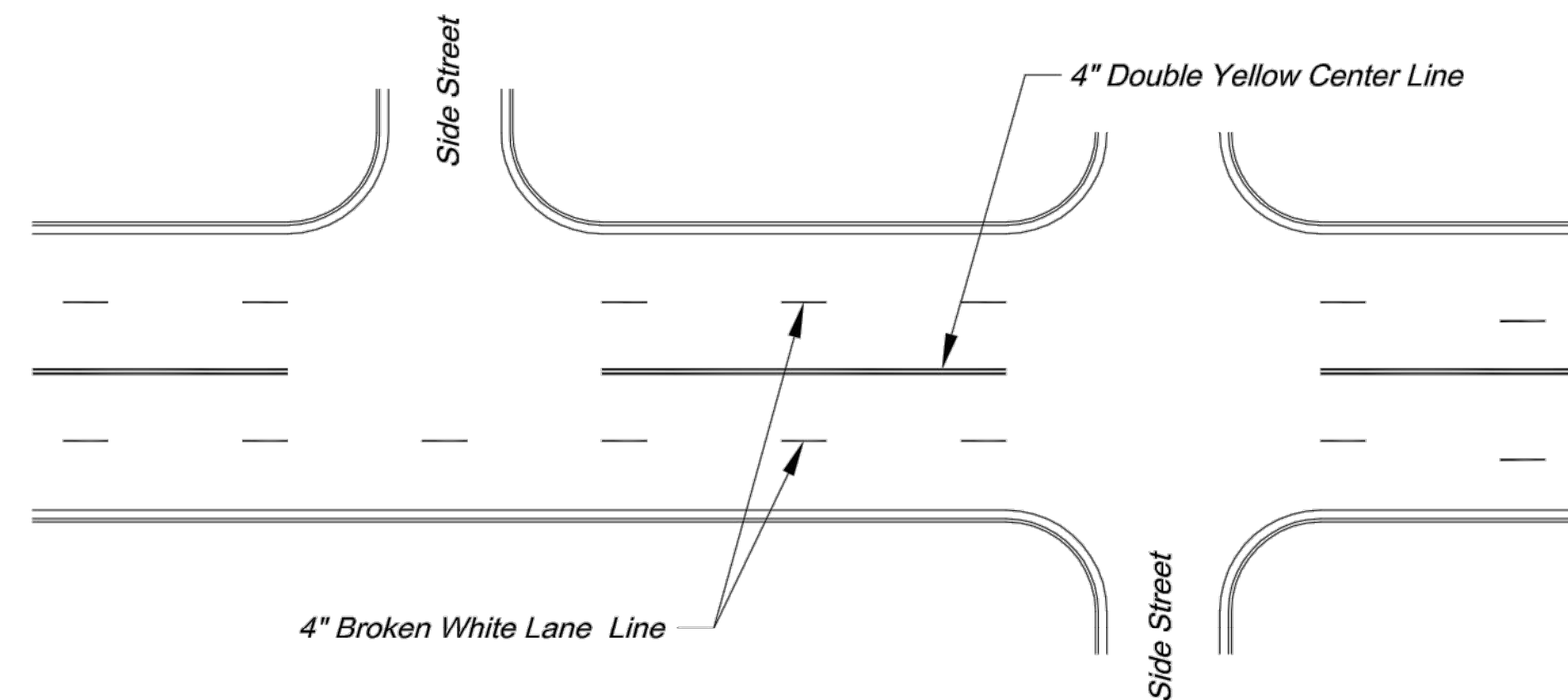


TYPICAL MIDBLOCK OR SCHOOL CROSS WALK

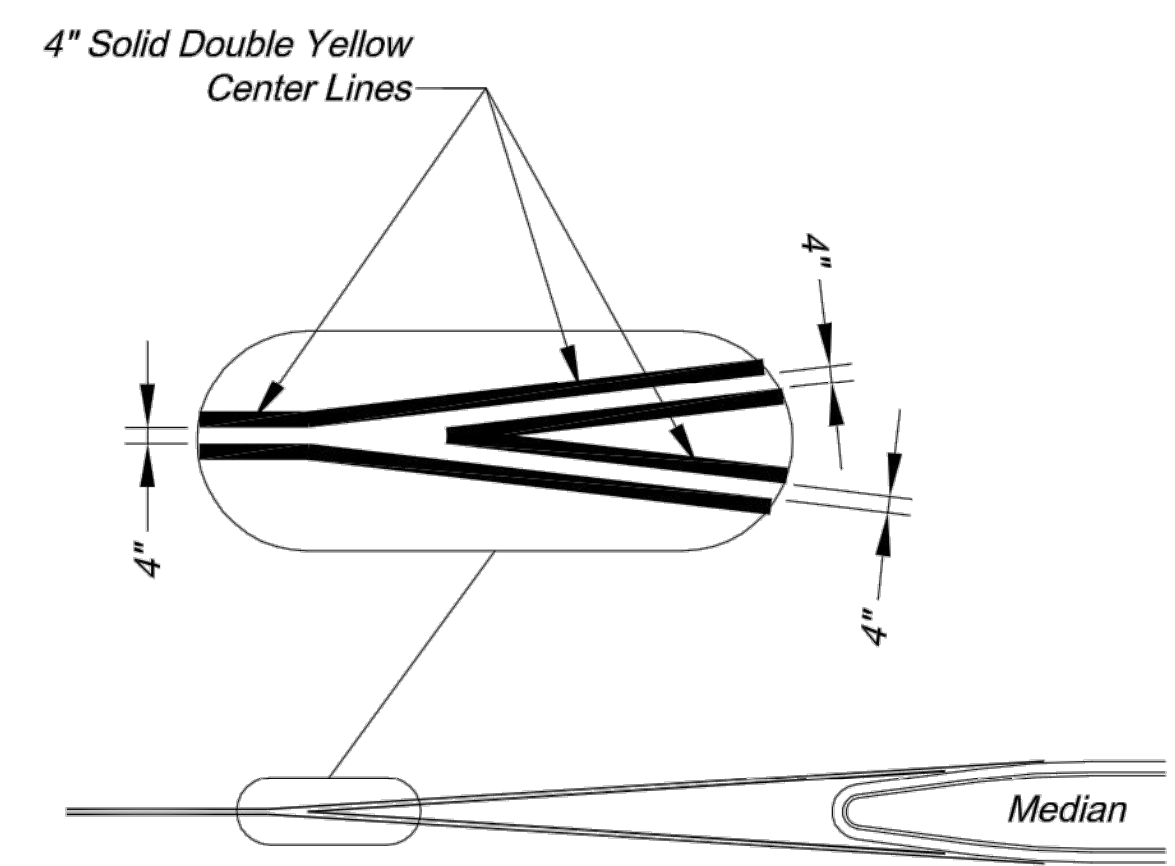


ARROW AND SYMBOL DETAILS

- 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

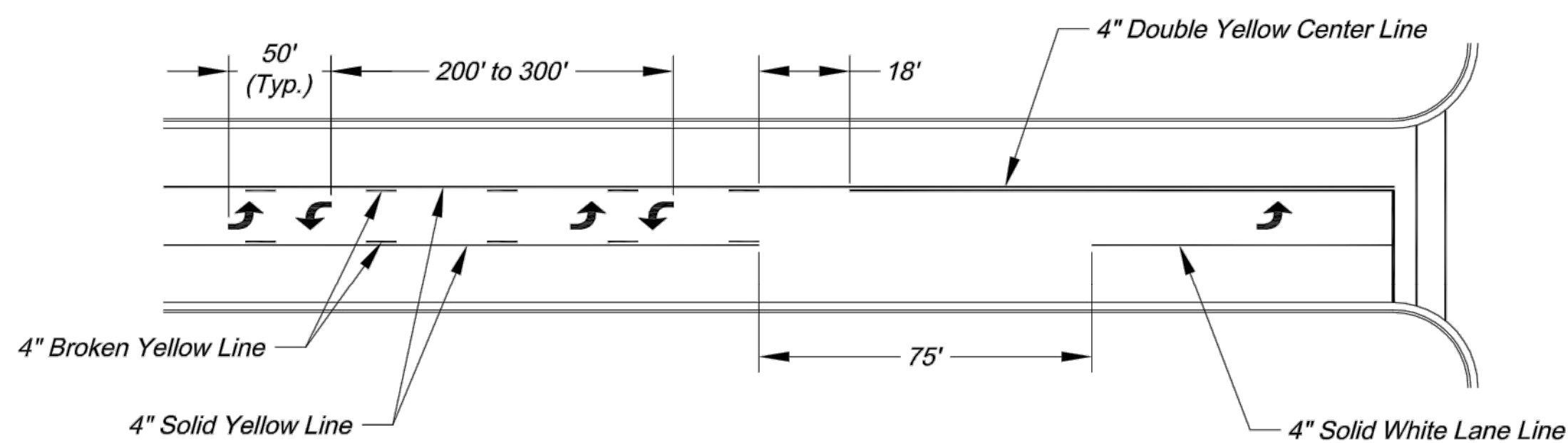
- PAVEMENT MARKING GENERAL NOTES:**
1. All pavement markings shall be in accordance with the latest edition of the *Manual on Uniform Traffic Control Devices (MUTCD)*.
 2. All words and symbols shall conform to the latest edition of *Standard Alphabets for Highway Signs and Pavement Markings* printed 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.

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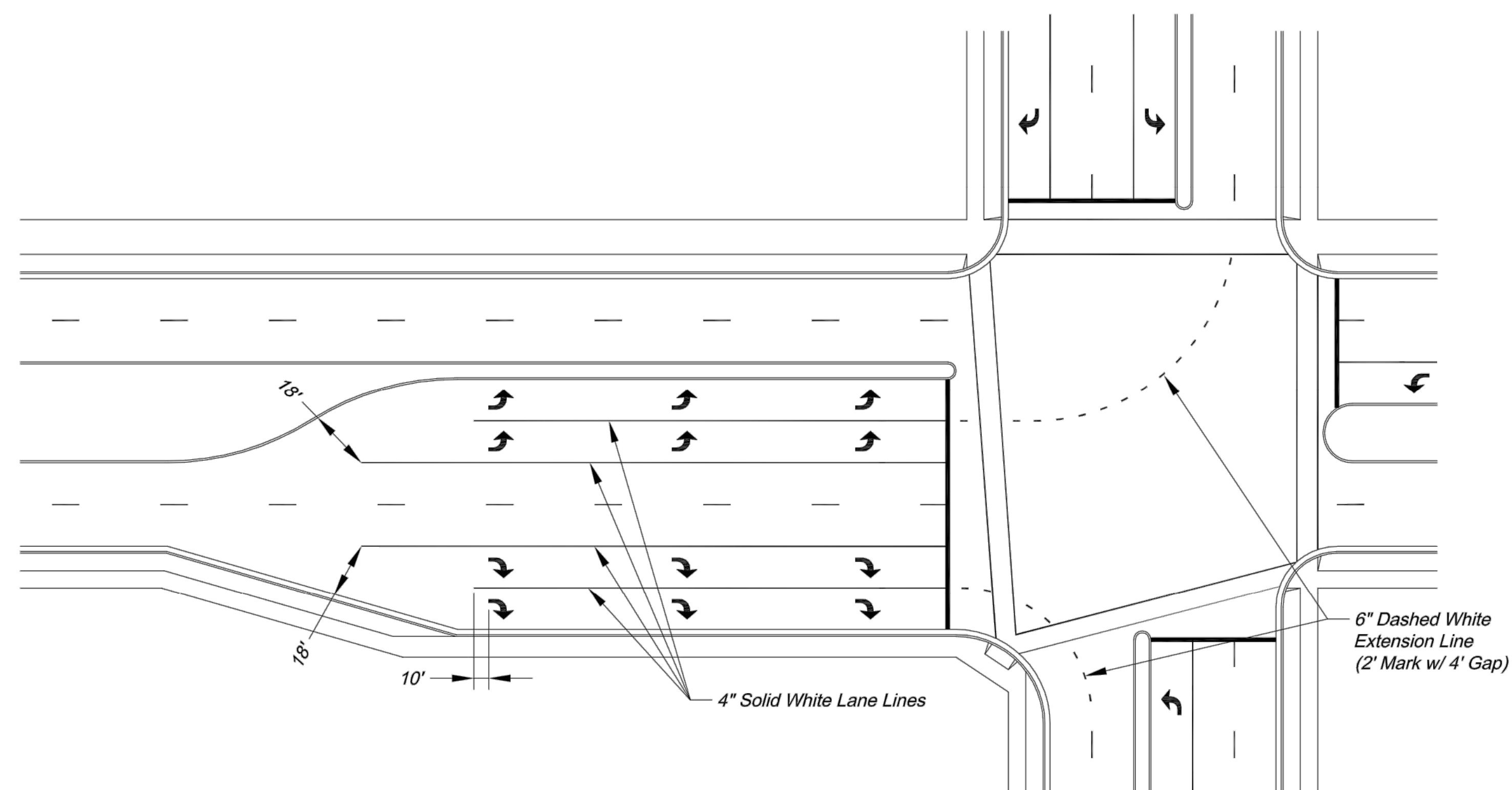


Project:
ROADWAY MARKING DETAILS
 Sheet Name: STANDARD DRAWING PM-1

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

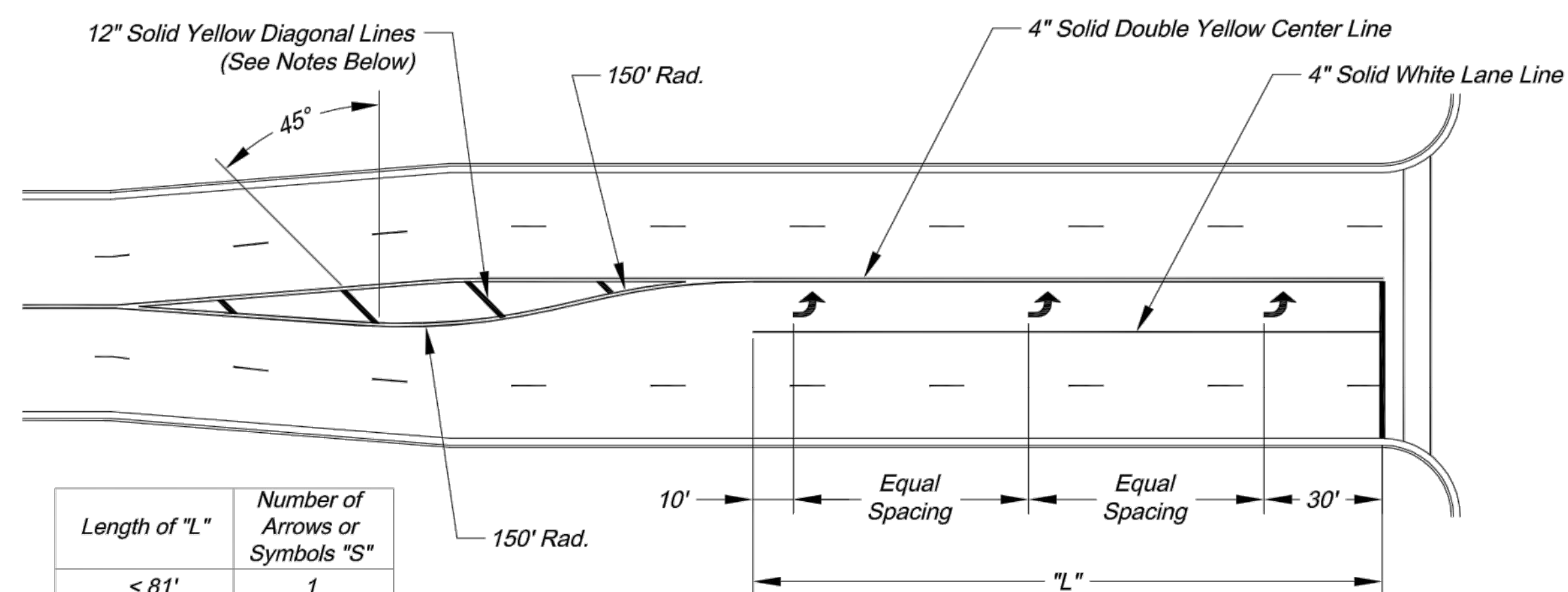


TYPICAL MARKINGS FOR TWO-WAY LEFT-TURN LANE



TYPICAL DUAL TURN LANE MARKINGS

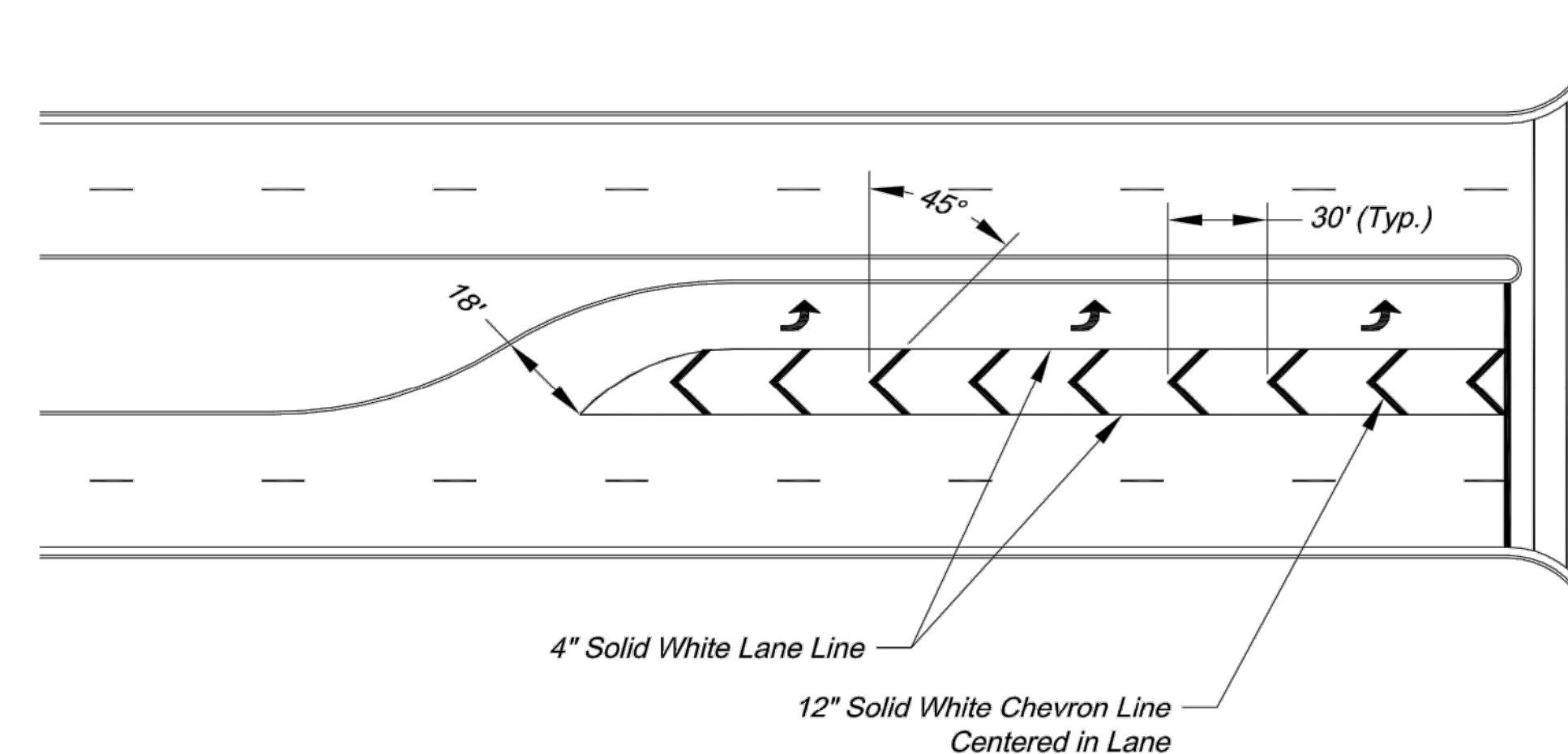
NOTE:
1. Dashed extension lines shall not extend through crosswalks.



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

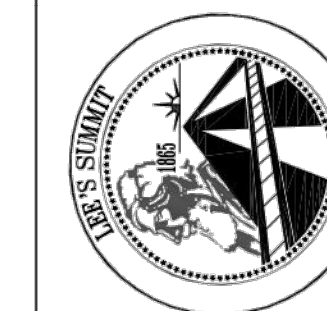
TYPICAL TURN LANE MARKINGS

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

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INTERSECTION MARKING DETAILS

STANDARD DRAWING PM-2

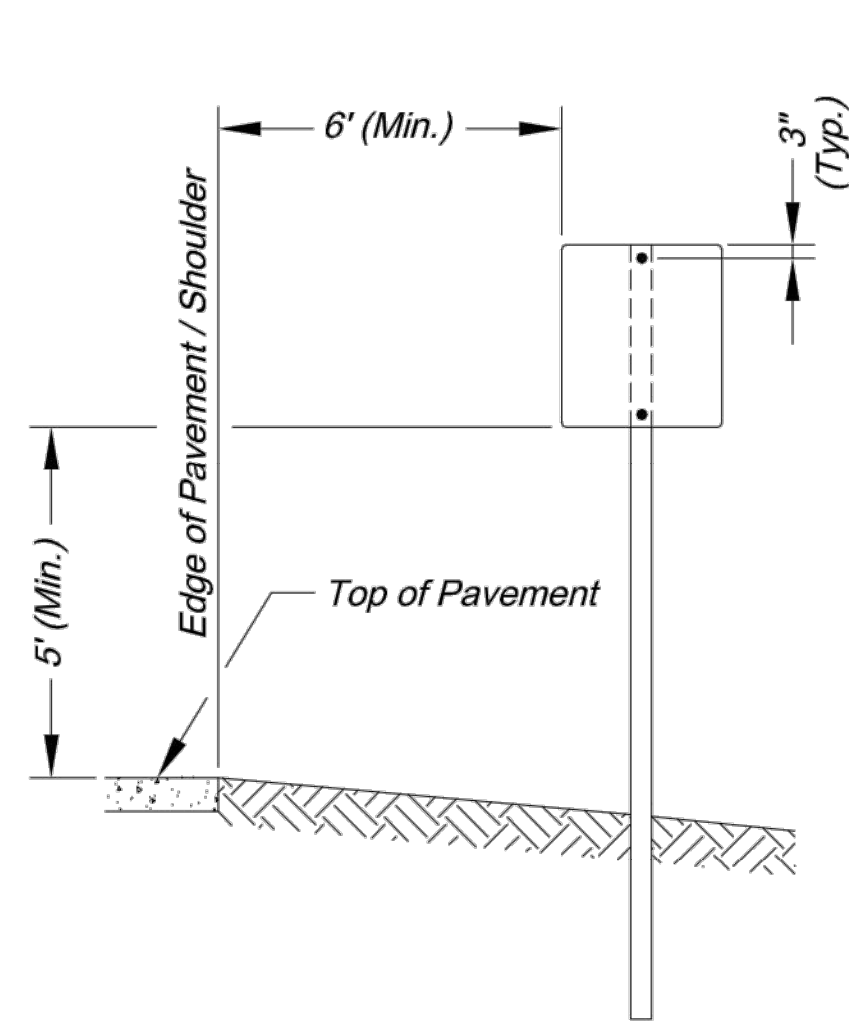
Project:

Sheet Name:

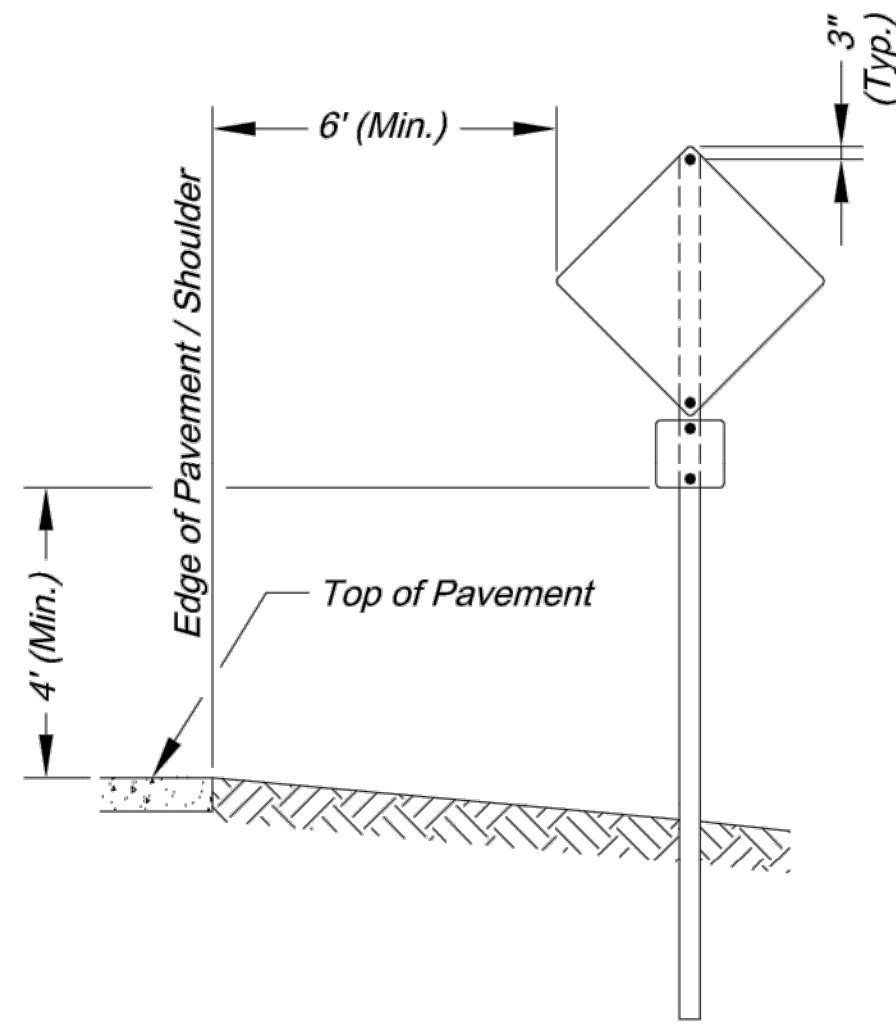
Drawn By: AS
Checked By: JW
Date: 09/09/2009
Project#

2 OF 2

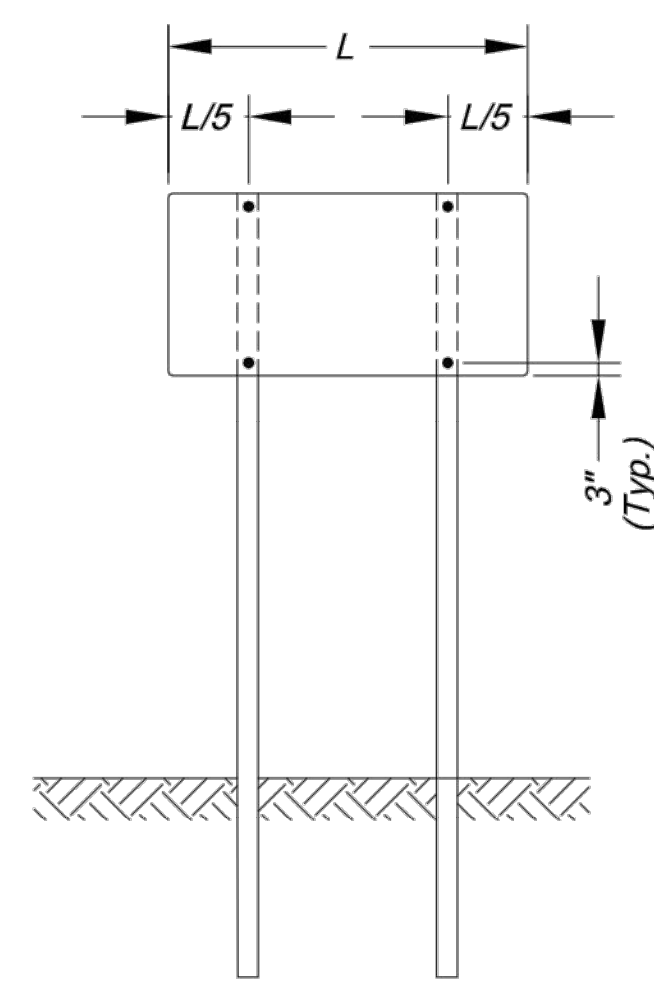
83



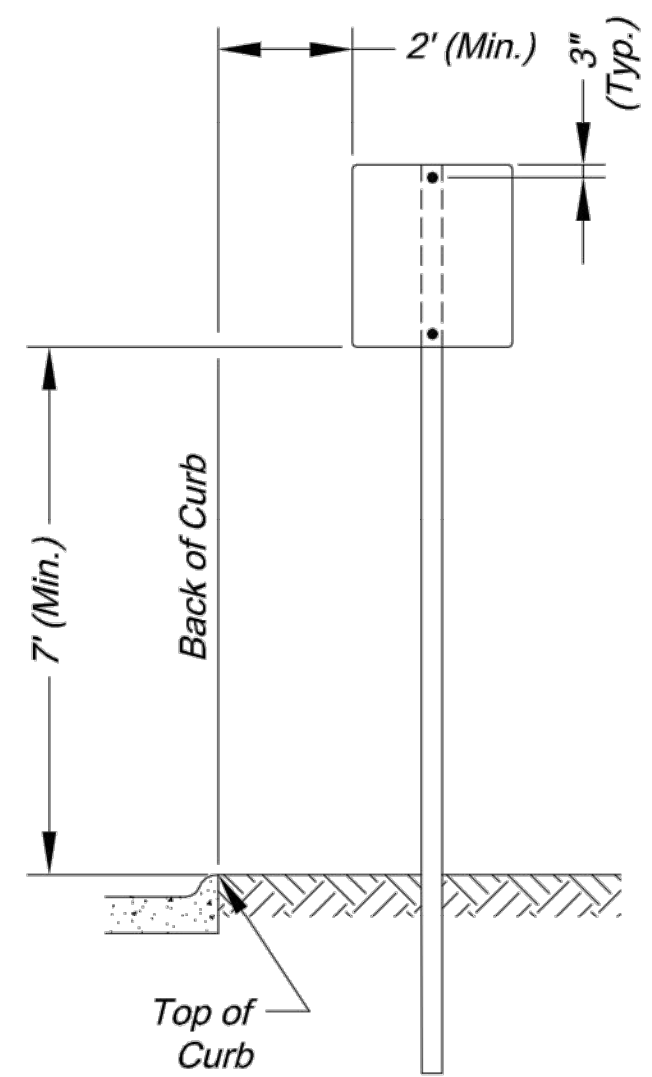
SIGN INSTALLATION FOR NON-CURBED STREET



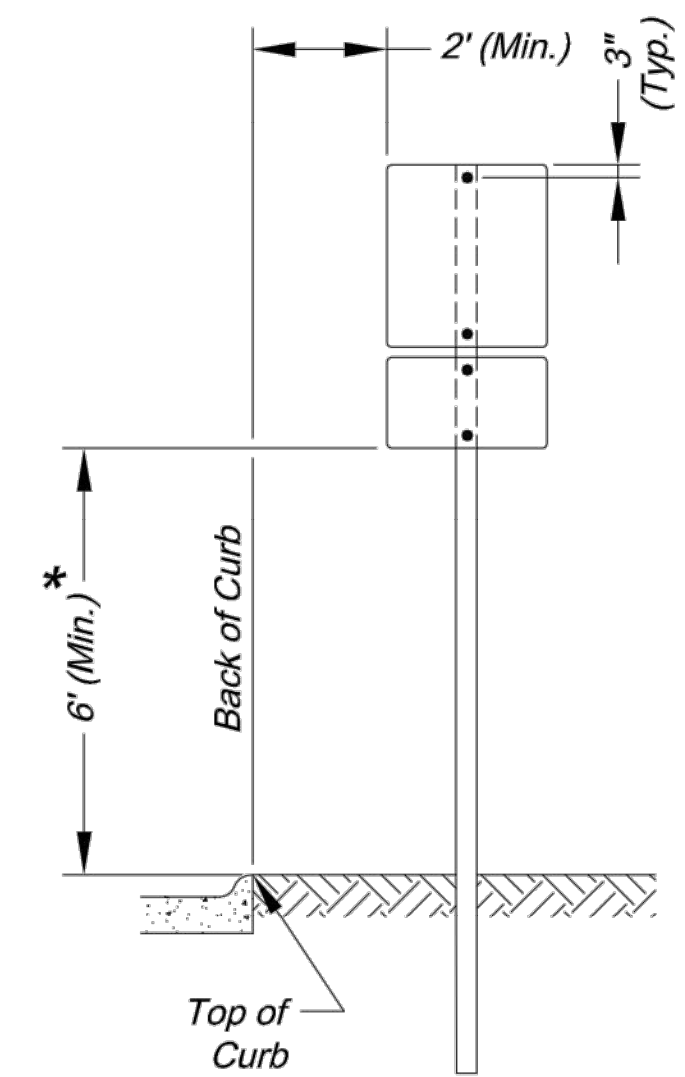
SIGN INSTALLATION WITH AUXILIARY SIGN FOR NON-CURBED STREET



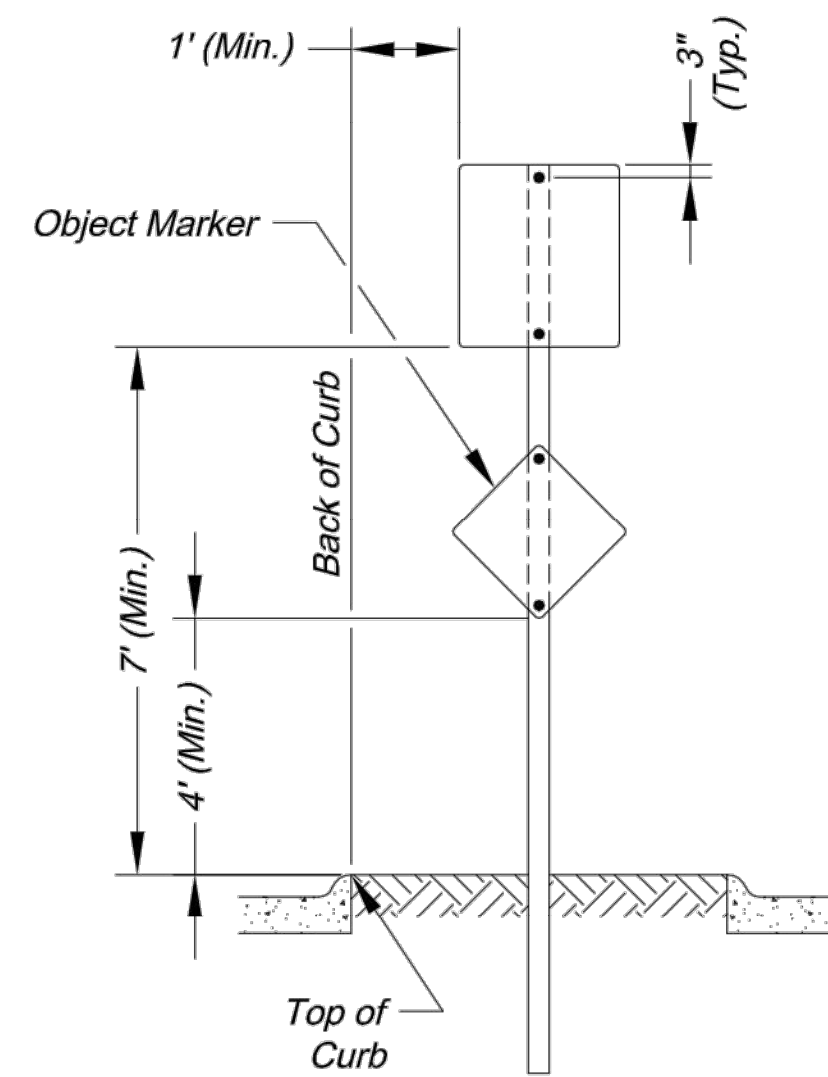
SIGN INSTALLATION WITH TWO SIGN POSTS



SIGN INSTALLATION FOR CURBED STREET



SIGN INSTALLATION WITH AUXILIARY SIGN FOR CURBED STREET



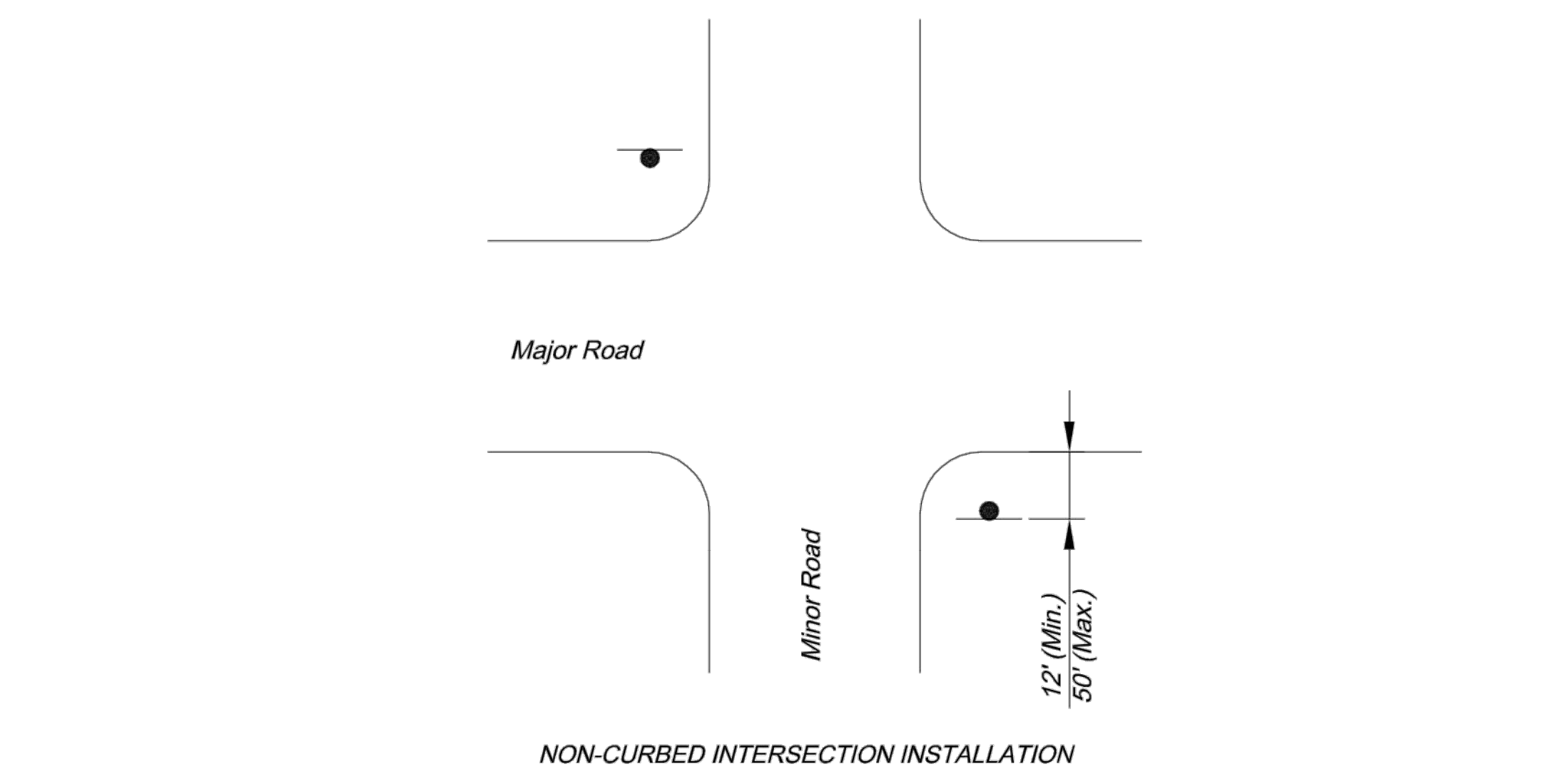
SIGN INSTALLATION FOR RAISED MEDIANS

SIGN MOUNTING DETAILS

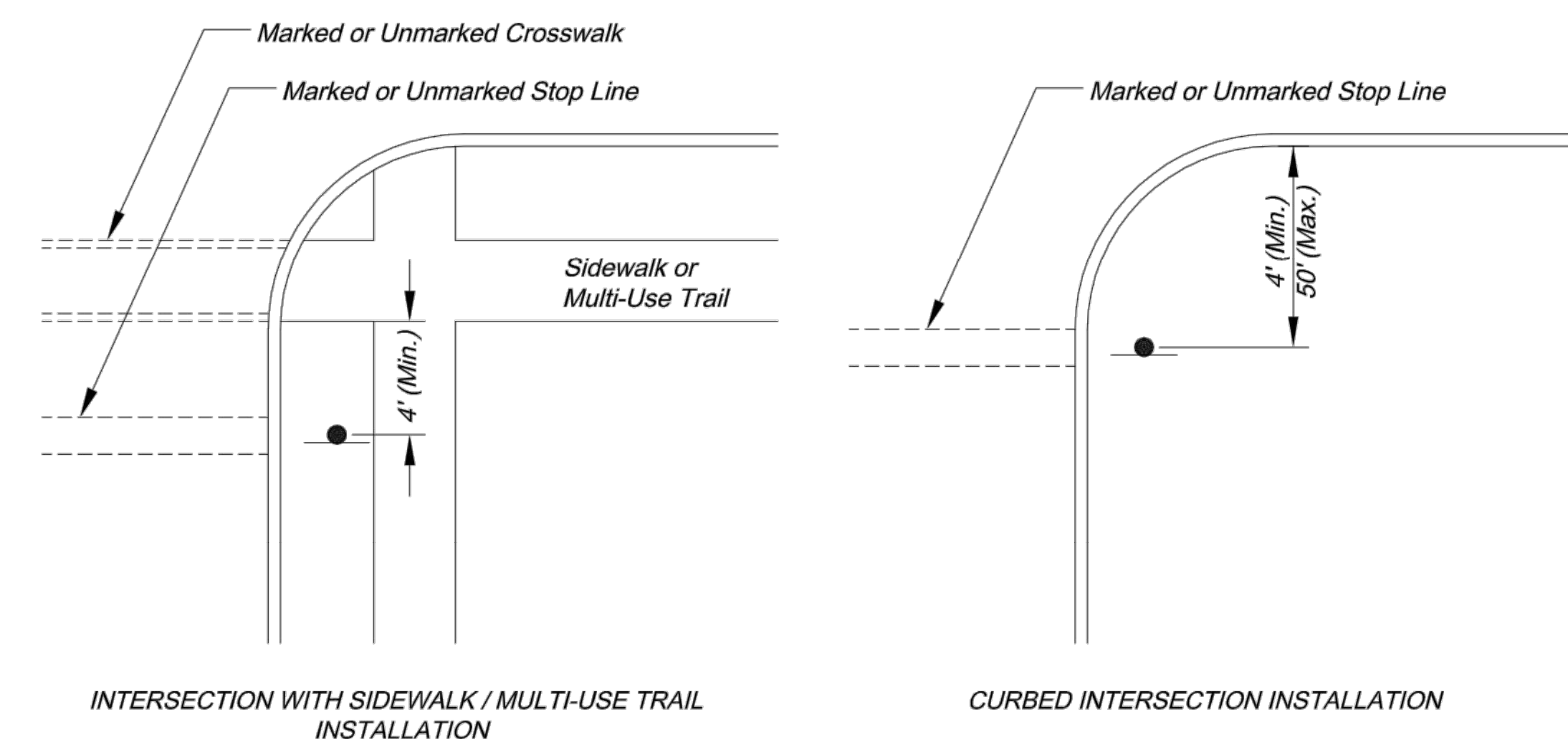
* The height to the bottom of a sign when it is located in a pedestrian walkway or extends into a walkway shall be a minimum of 80 inches above the walkway.

NOTE:

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



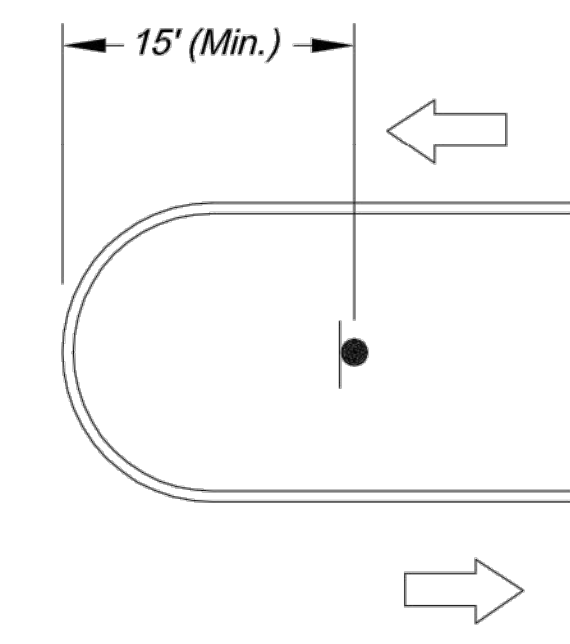
NON-CURBED INTERSECTION INSTALLATION



INTERSECTION WITH SIDEWALK / MULTI-USE TRAIL INSTALLATION

CURBED INTERSECTION INSTALLATION

CONTROL SIGN LOCATION



TYPICAL MEDIAN SIGN LOCATION

MEDIAN SIGN LOCATION

NOTES:

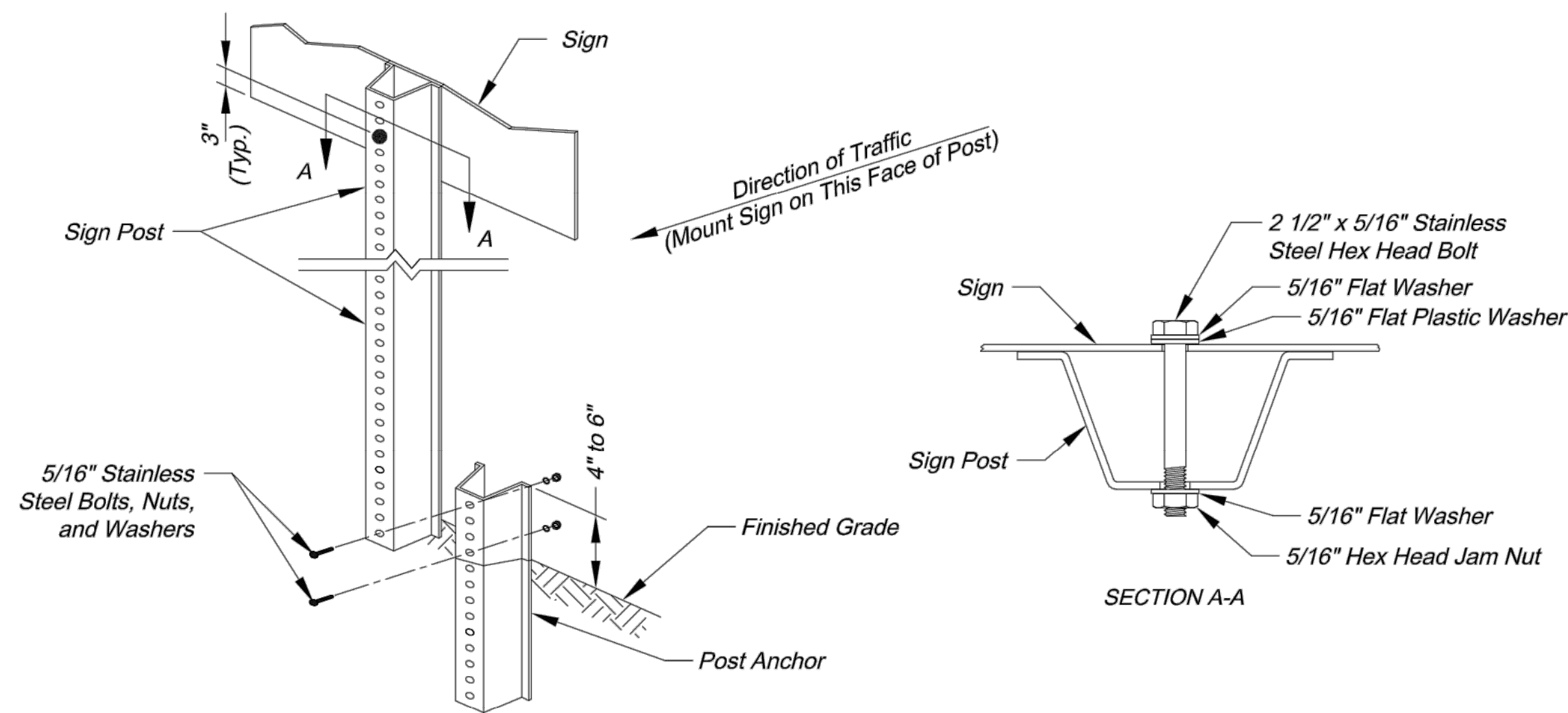
- A 4" P.V.C. sleeve shall be installed in new concrete medians at each location where a sign is to be installed.
- For existing concrete medians, a 4" hole shall be cored into the concrete.

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

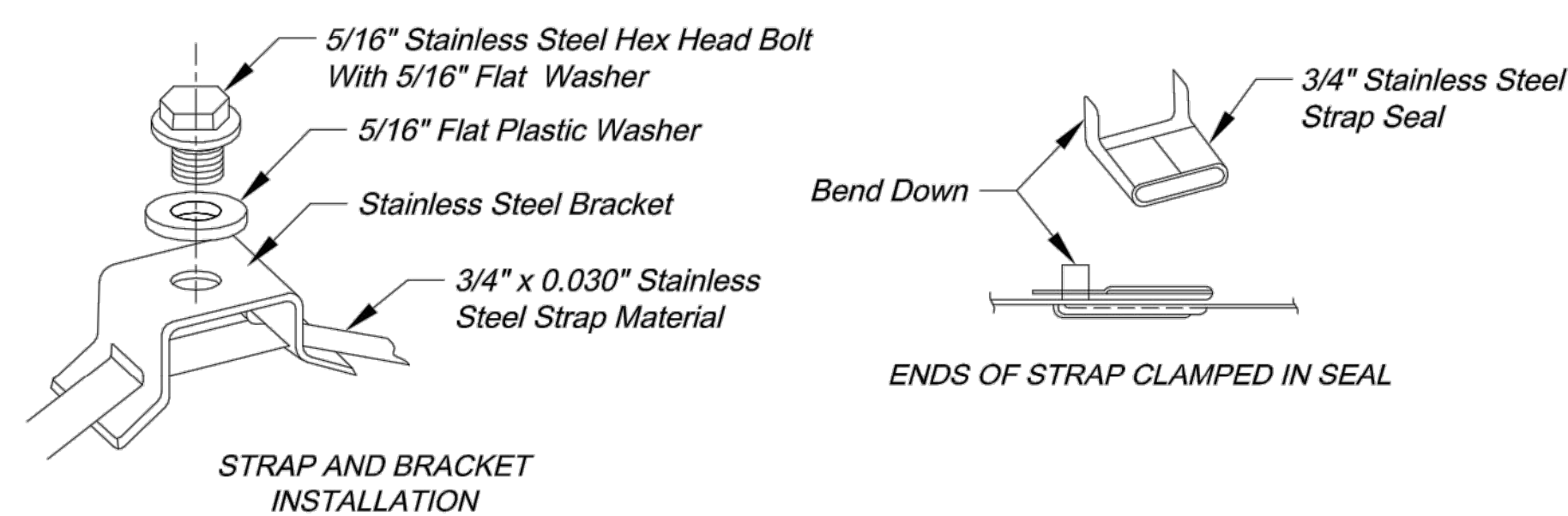
Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project#



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.



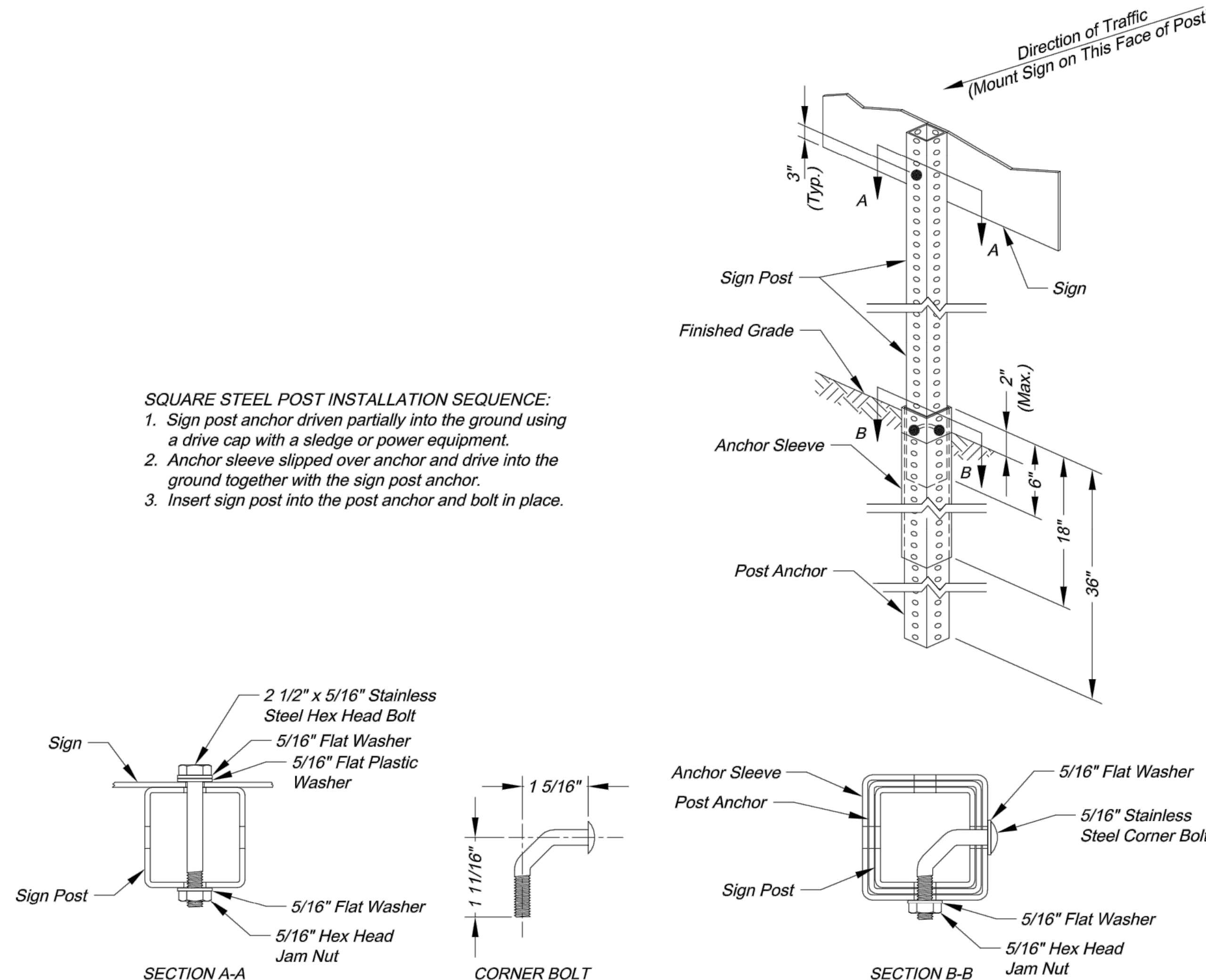
STRAP TYPE SIGN SUPPORT DETAILS

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.

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 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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SIGN POST DETAILS
 STANDARD DRAWING SN-2

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

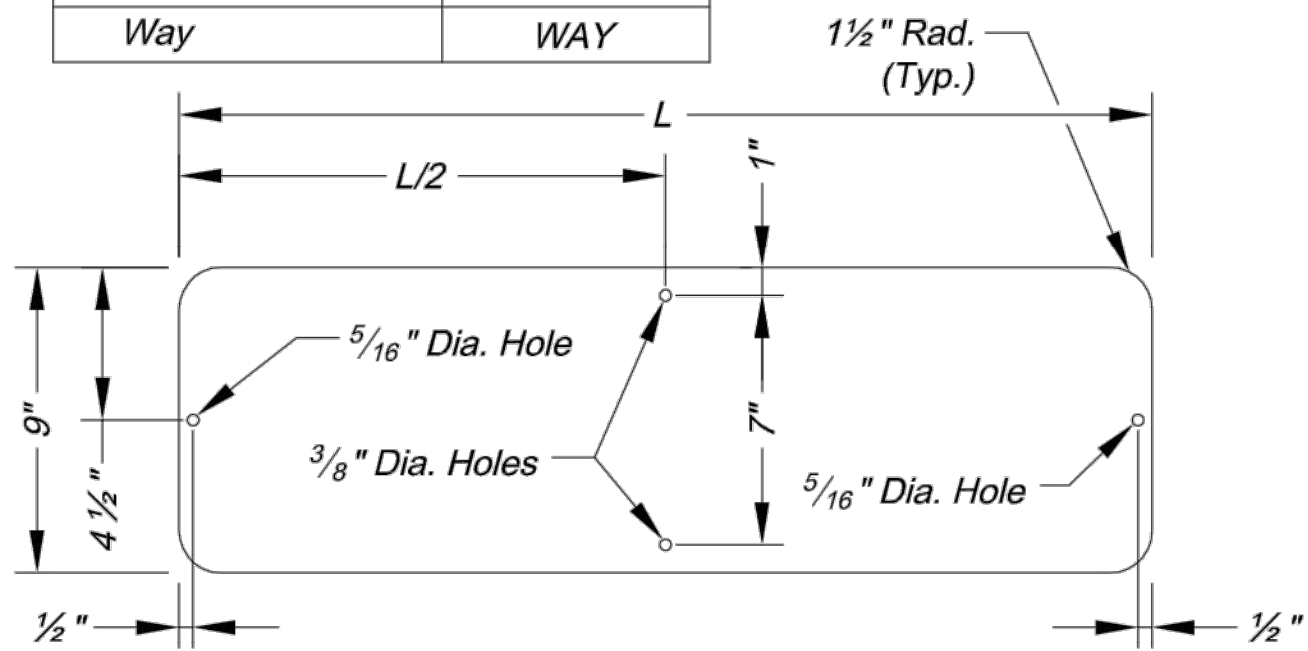
STANDARD ABBREVIATION LISTS

Named Streets	
Avenue	AVE
Boulevard	BLVD
Circle	CIR
Creek	CR
Court	CT
Crossing	XING
Drive	DR
Highway	HWY
Lane	LN
Parkway	PKWY
Place	PL
Road	RD
Street	ST
Terrace	TER
Trail	TRL
Way	WAY

Numbered Streets	
First	ST
Second	ND
Third	RD
Fourth to Tenth	TH

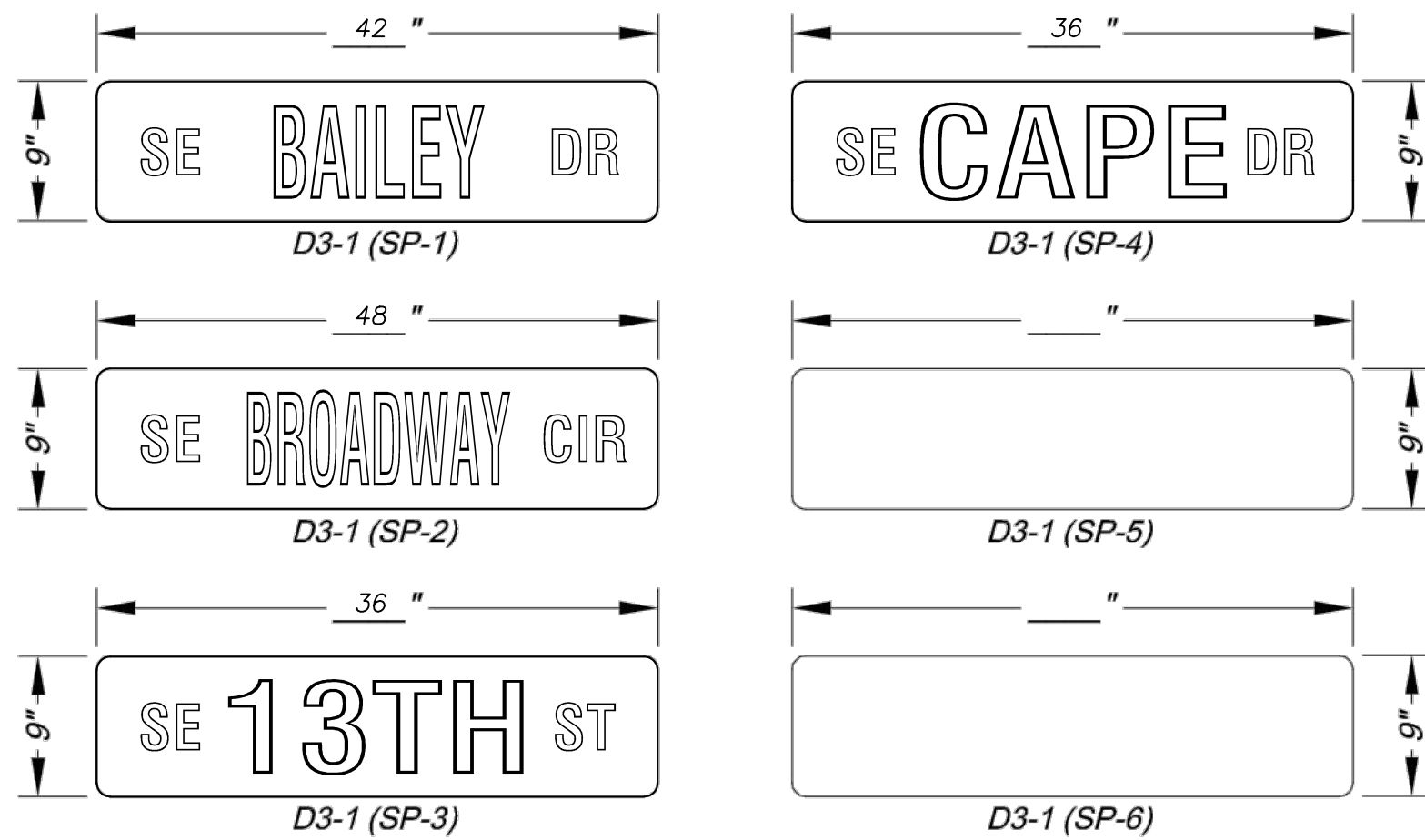
STREET NAME SIGN QUANTITIES

Sign Designation	Sign Size	Sign Area (Sq. Ft.)	Number	Quantity (Sq. Ft.)
D3-1 (BAILEY RD)	9" x 42"	2.63	6	15.75
D3-1 (BROADWAY CIR)	9" x 48"	3.00	2	6.00
D3-1 (13TH ST)	9" x 36"	2.25	2	4.50
D3-1 (CAPE DR)	9" x 36"	2.25	2	4.50

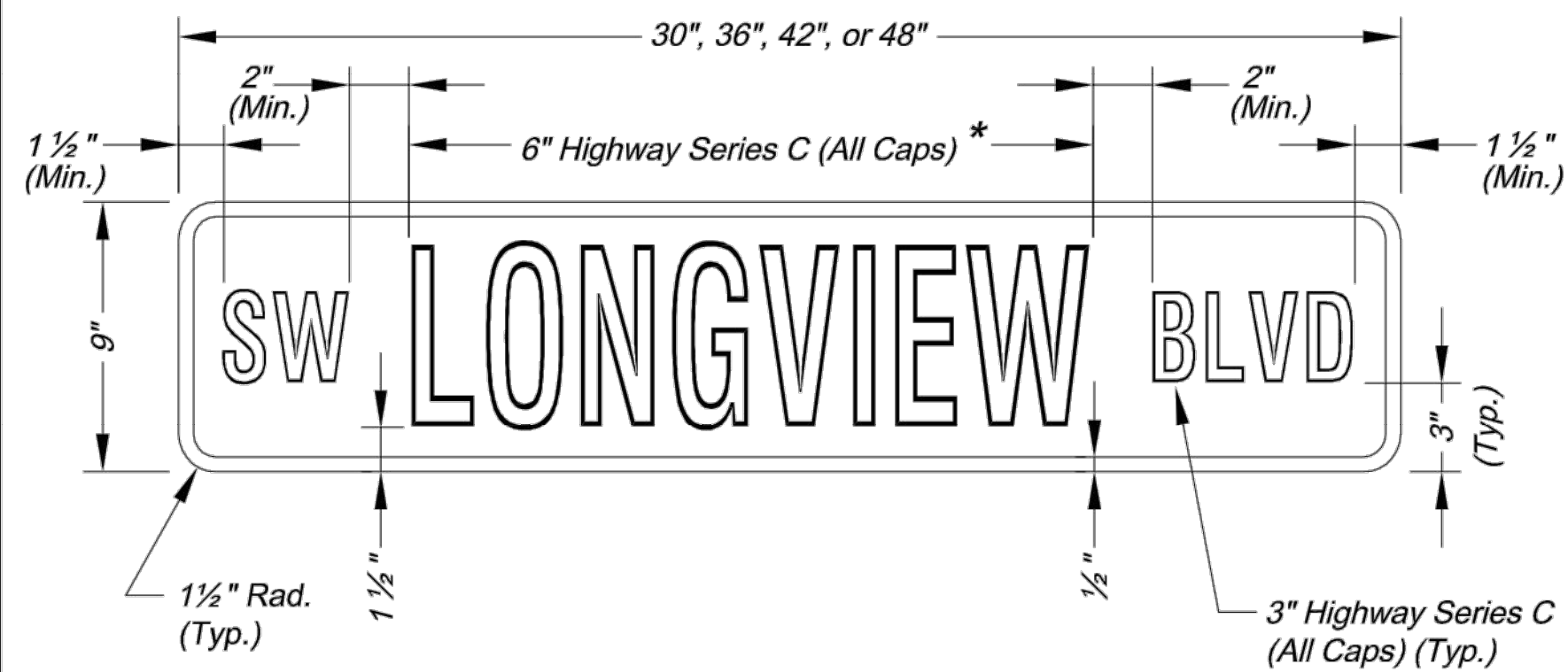


STREET NAME SIGN BLANK DETAILS

For Mounting on Square Steel Posts

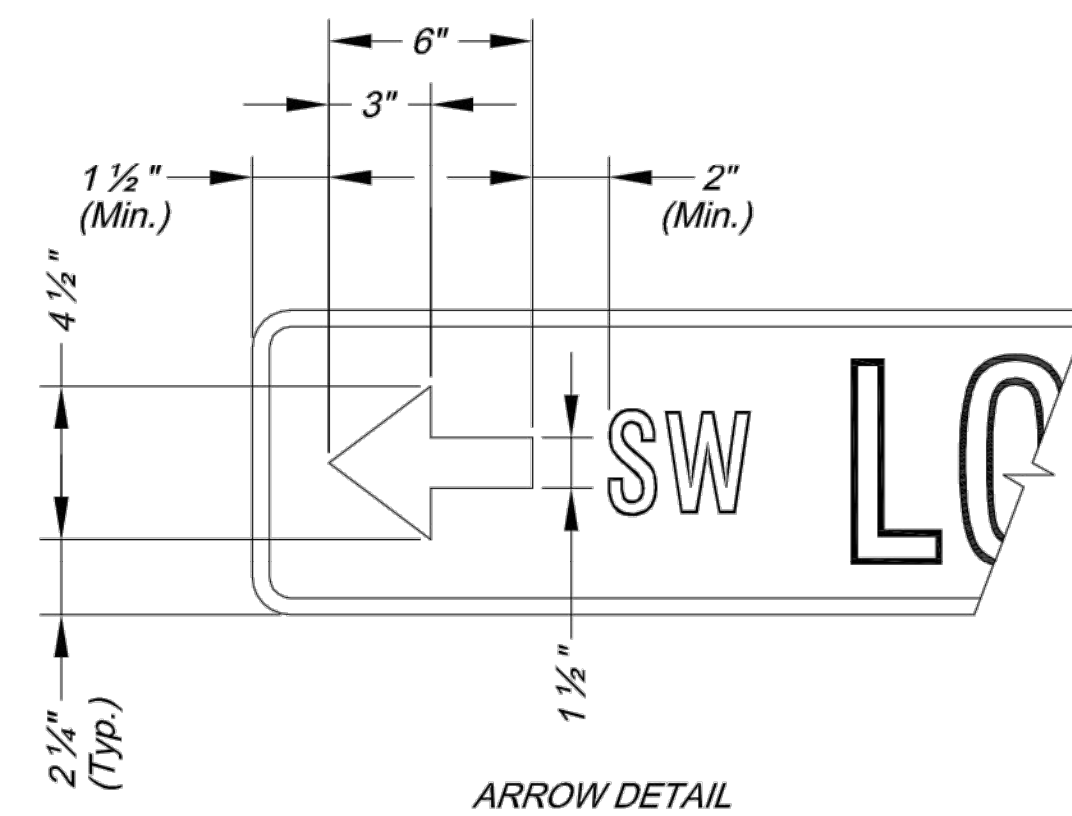


PROJECT SIGN DETAILS

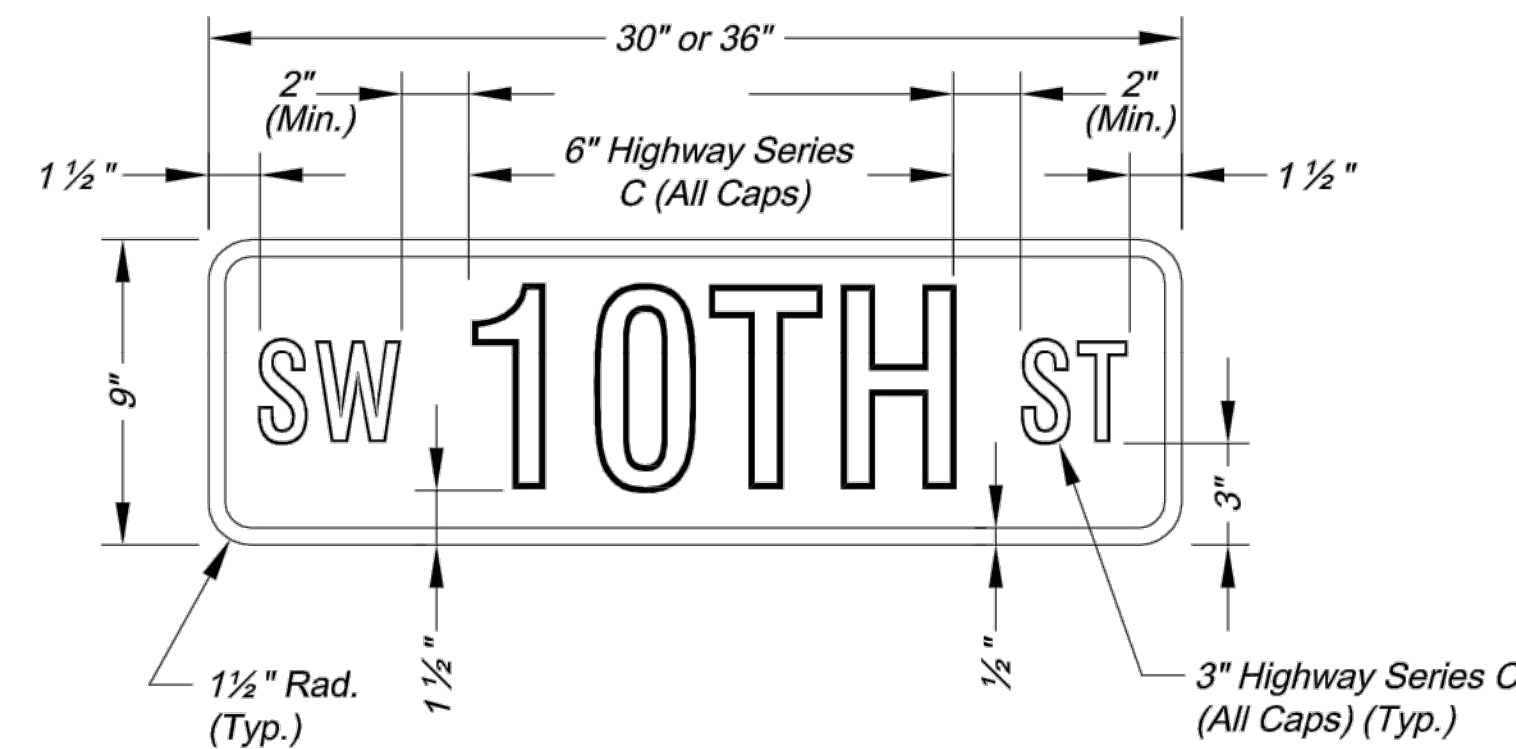


NAMED STREET NAME SIGN DETAIL

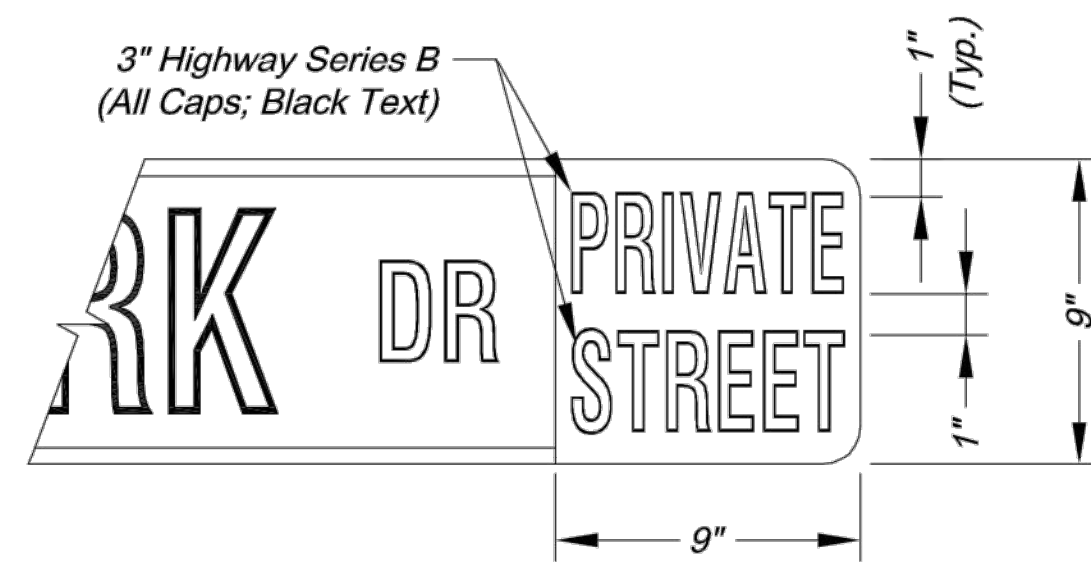
* Use Highway Series B (All Caps) in lieu of series C if necessary to fit text on a 36" sign blank.



ARROW DETAIL



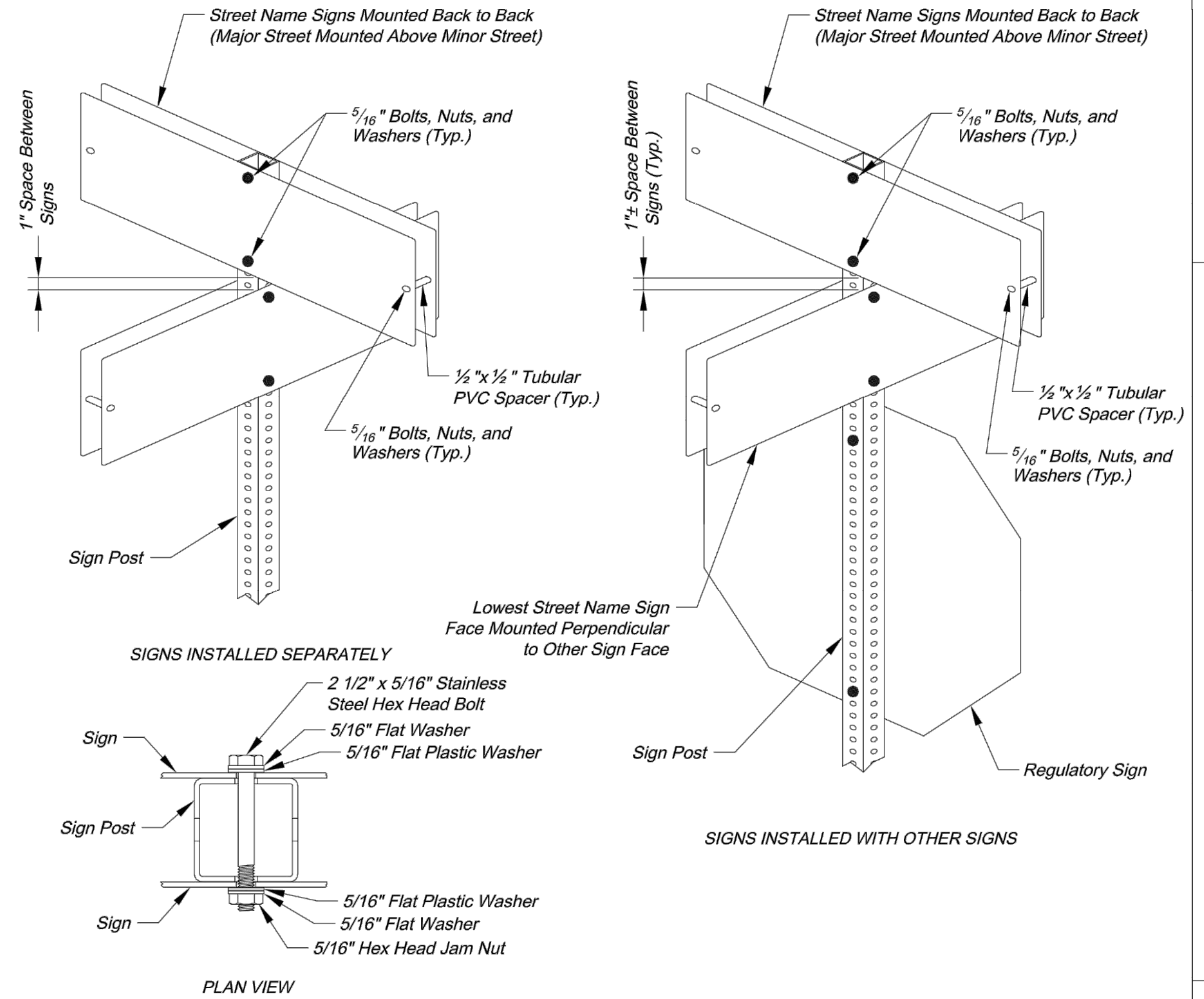
NUMBERED STREET NAME SIGN DETAIL



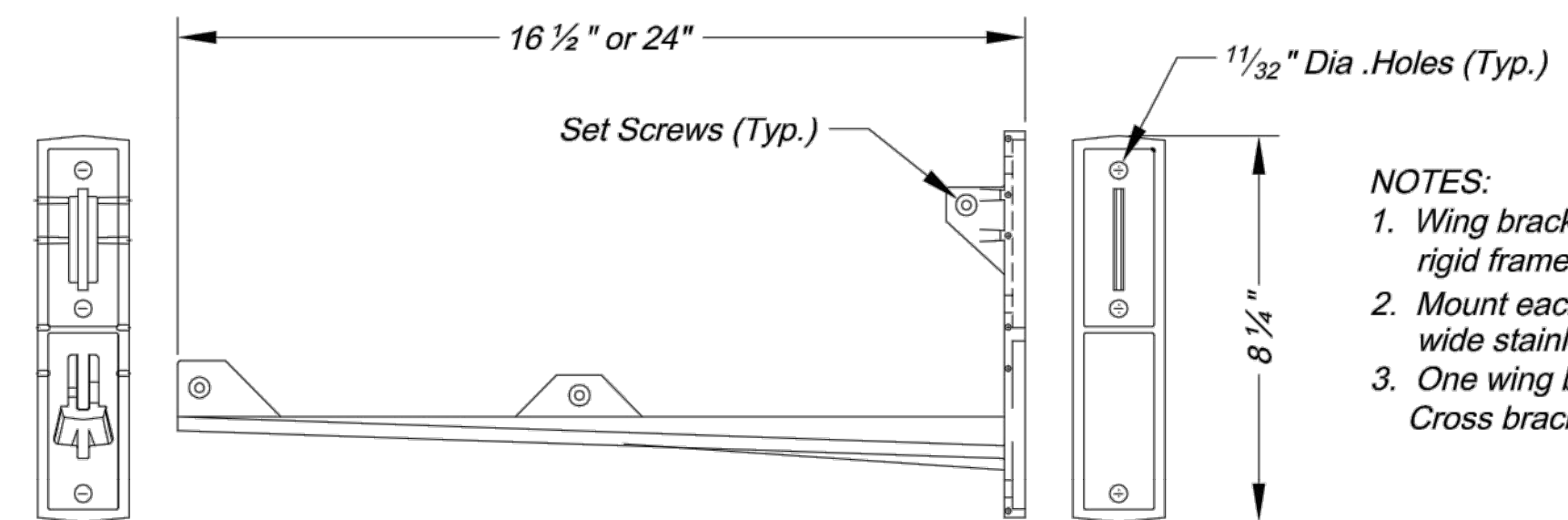
PRIVATE STREET TAG DETAIL

- 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

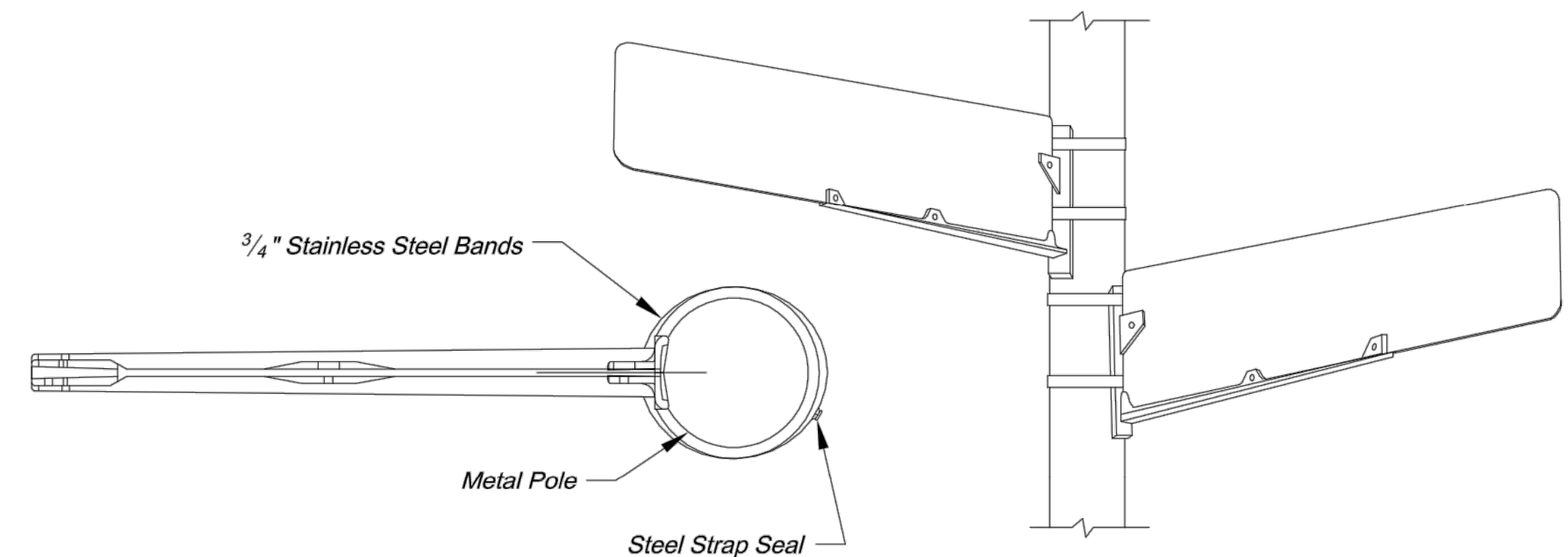


SQUARE STEEL POST MOUNTING DETAILS



NOTES:

- Wing bracket shall be an L-shaped cantilever of T-beam rigid frame 380-3 aluminum alloy construction.
- Mount each wing bracket to metal pole using two 3/4" wide stainless steel straps.
- One wing bracket shall be installed per each sign. Cross brackets are not allowed.



WING BRACKET MOUNTING DETAILS

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Project:
STREET NAME SIGN DETAILS

Sheet Name:
STANDARD DRAWING SN-3

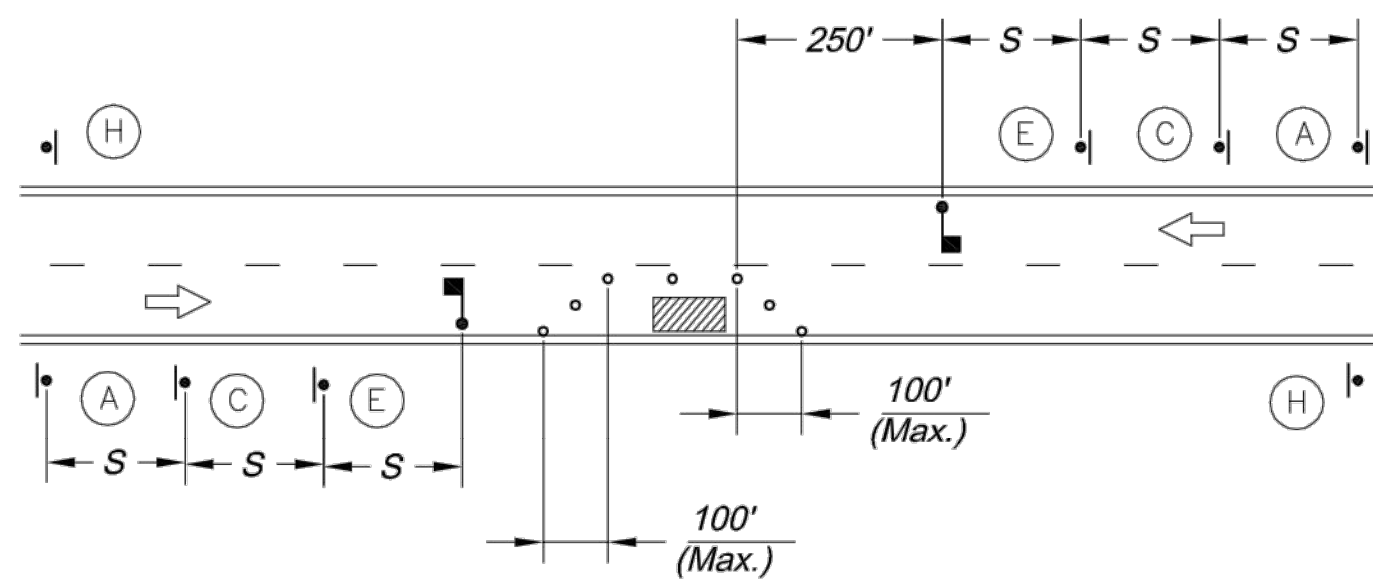
Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project#

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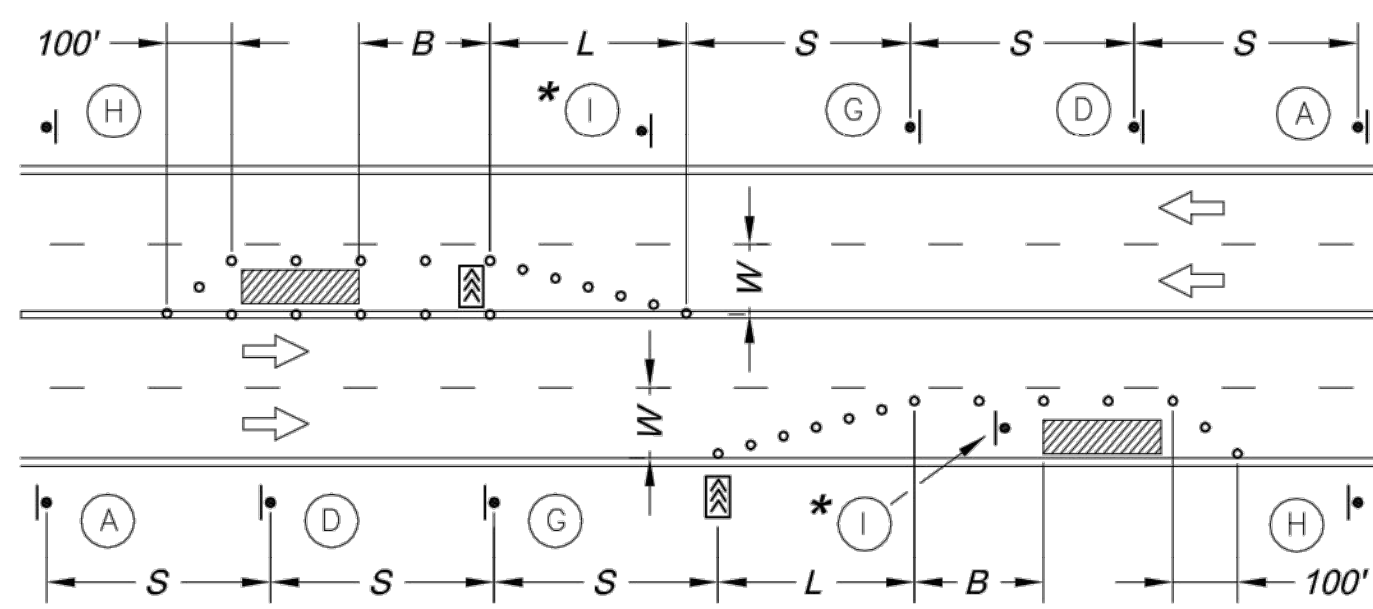
86

SYMBOL LEGEND

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

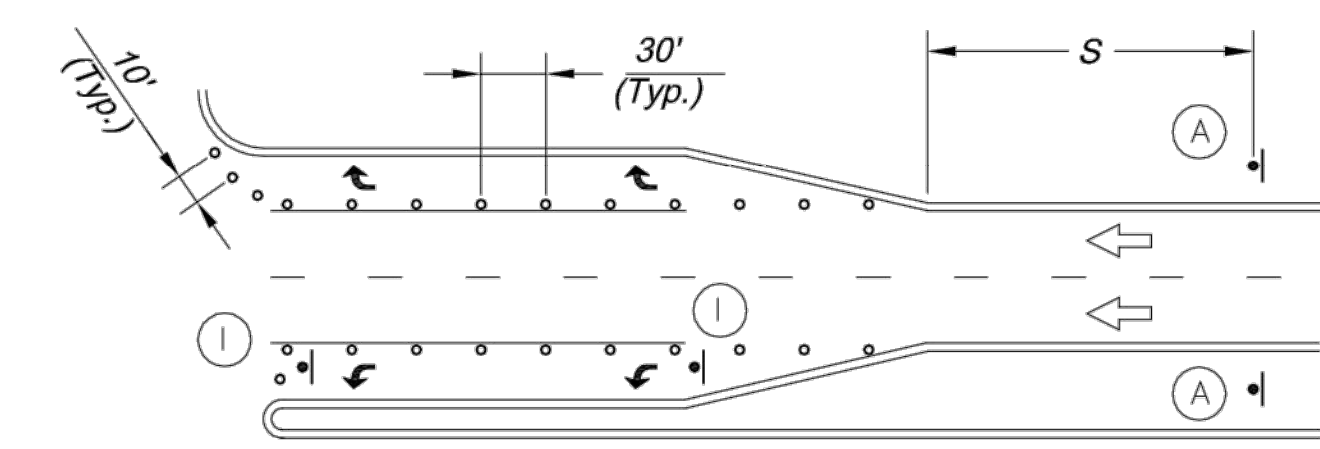


LANE CLOSURE - TWO LANE STREET



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

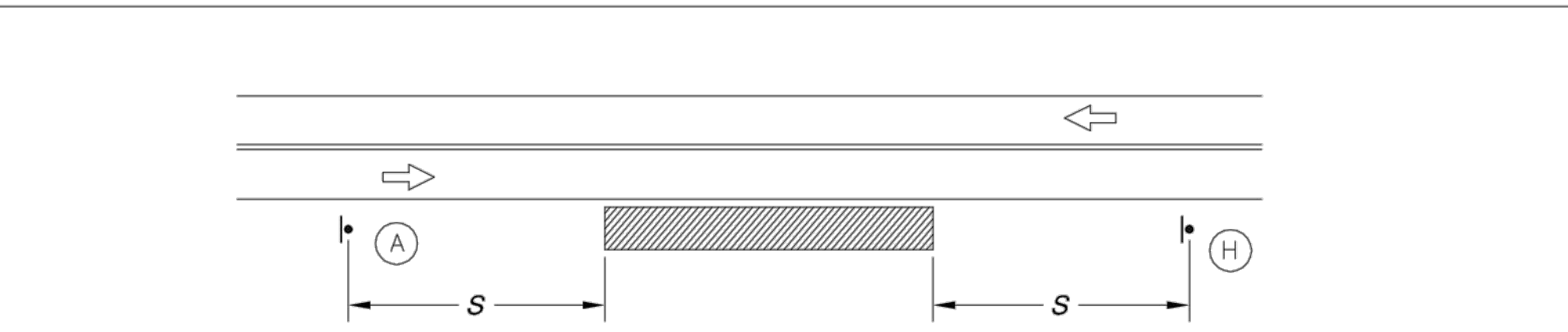
Speed Limit (mph)	Taper Dimensions (Feet)			Minimum Number of Channelizers
	Minimum Taper Length "L", per Lane Width "W"	10	11	
25	105	115	125	6
30	150	165	180	7
35	205	225	245	8
40	270	295	320	9
45	450	495	540	13

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

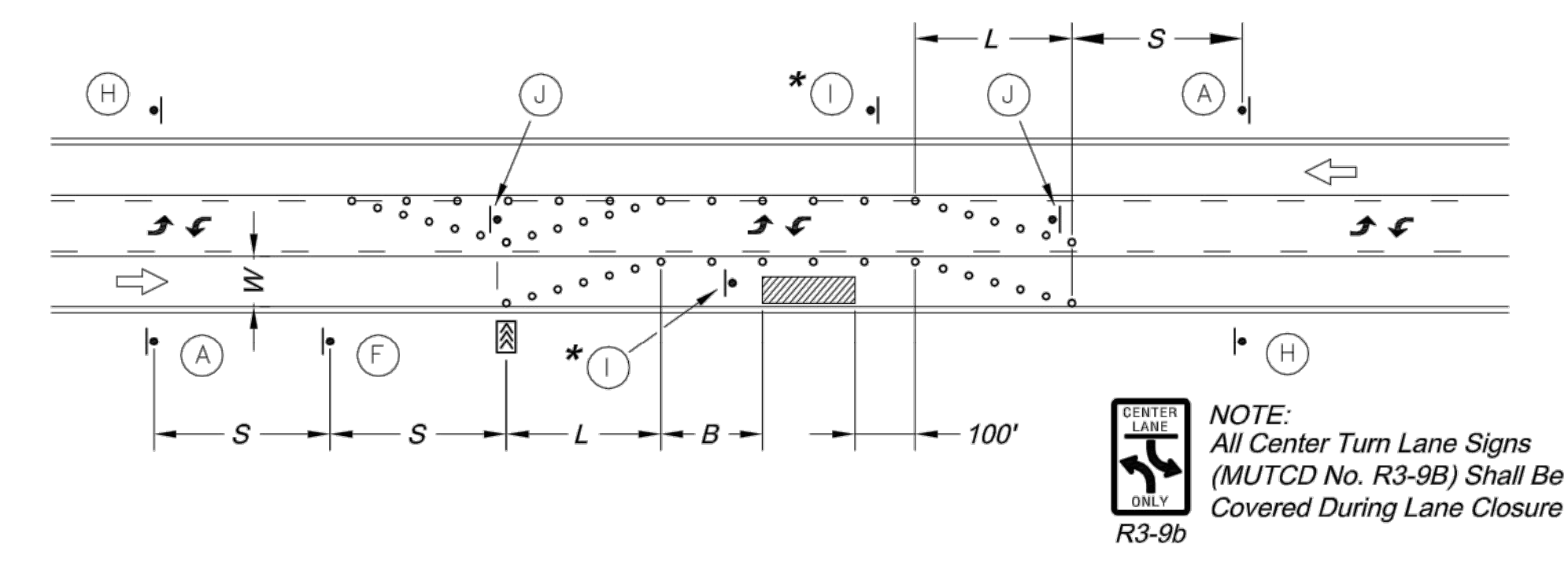
Maximum Channelizer Spacing		
Speed Limit (mph)	Within Taper (Feet)	Outside Taper (Feet)
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90

SIGN LEGEND

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

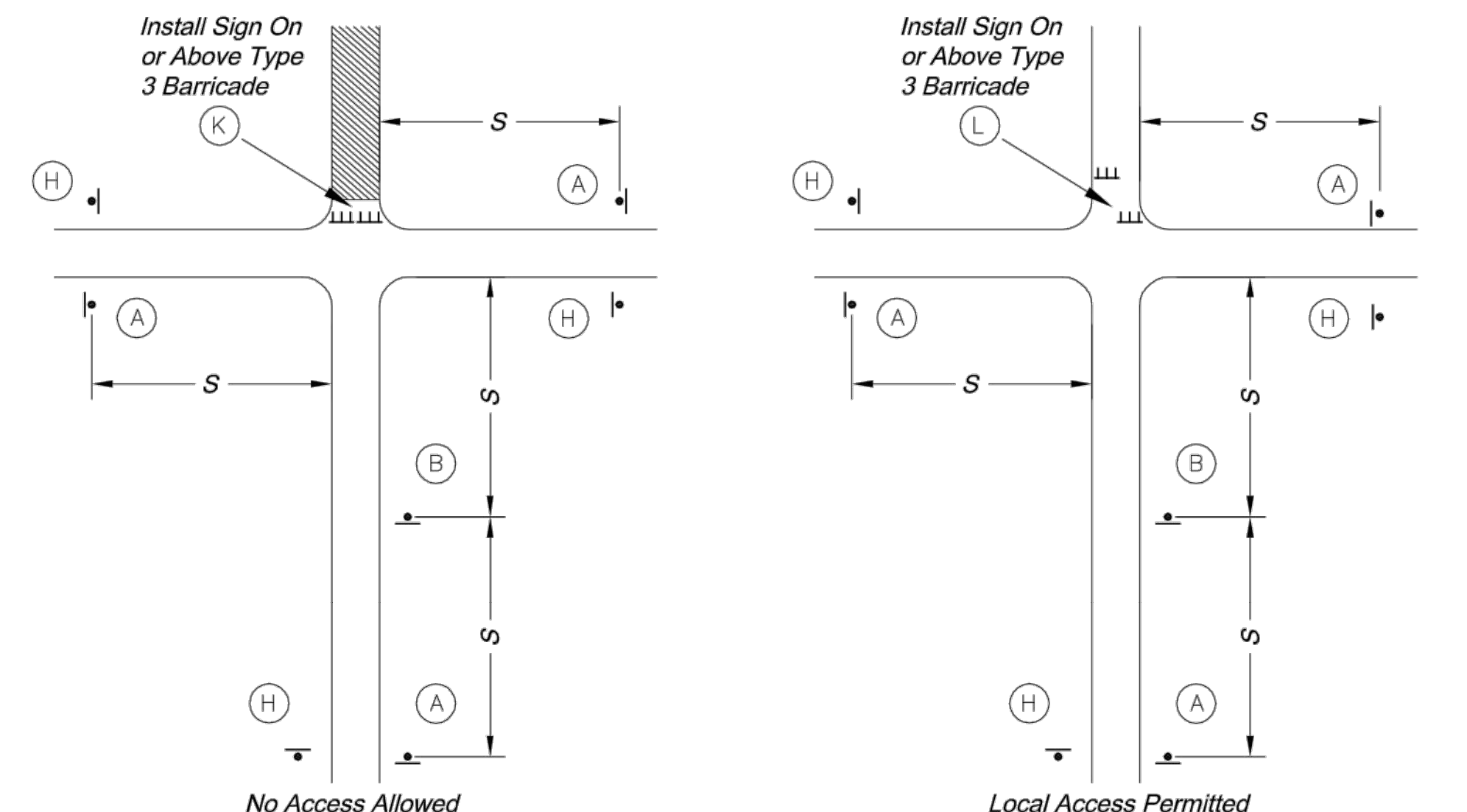


TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET



LANE CLOSURE - THREE LANE STREET

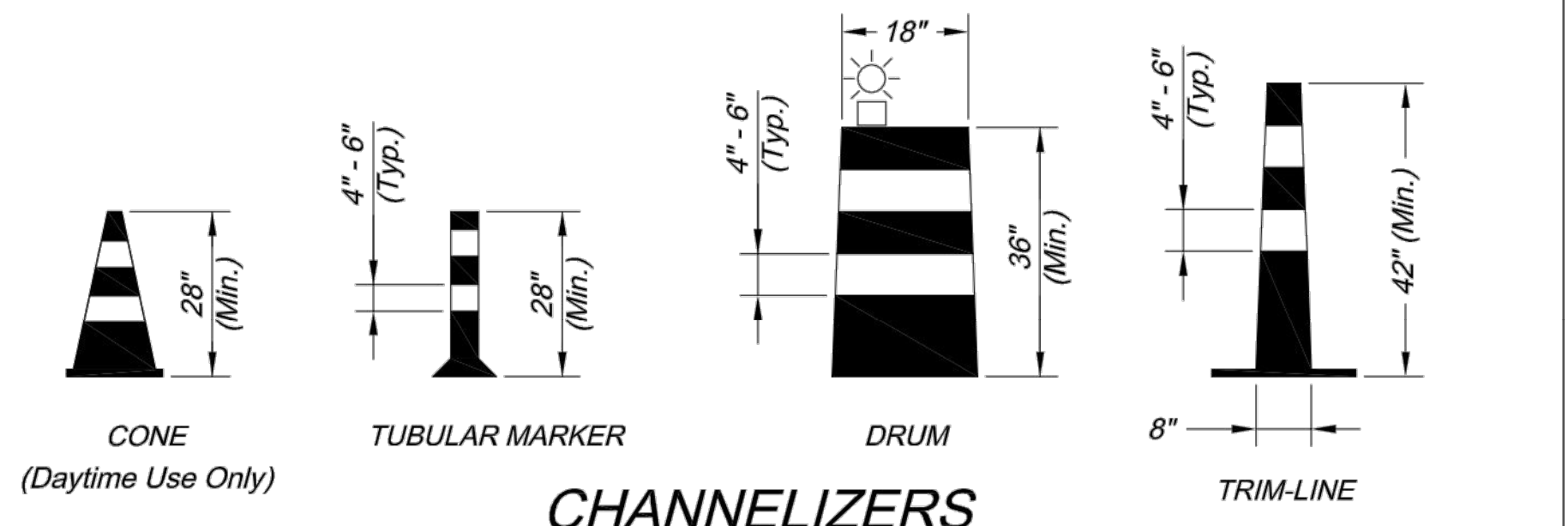
* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TYPICAL STREET CLOSURE

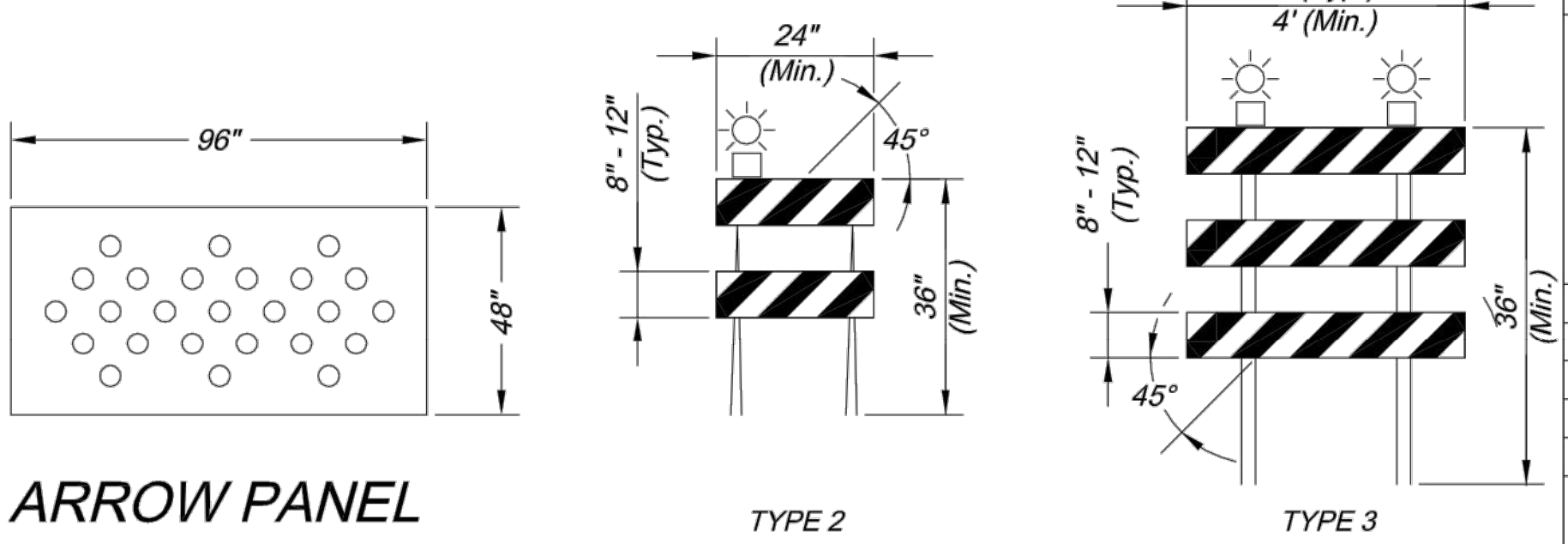
GENERAL NOTES:

- 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

TYPE 2

TYPE 3

BARRICADES

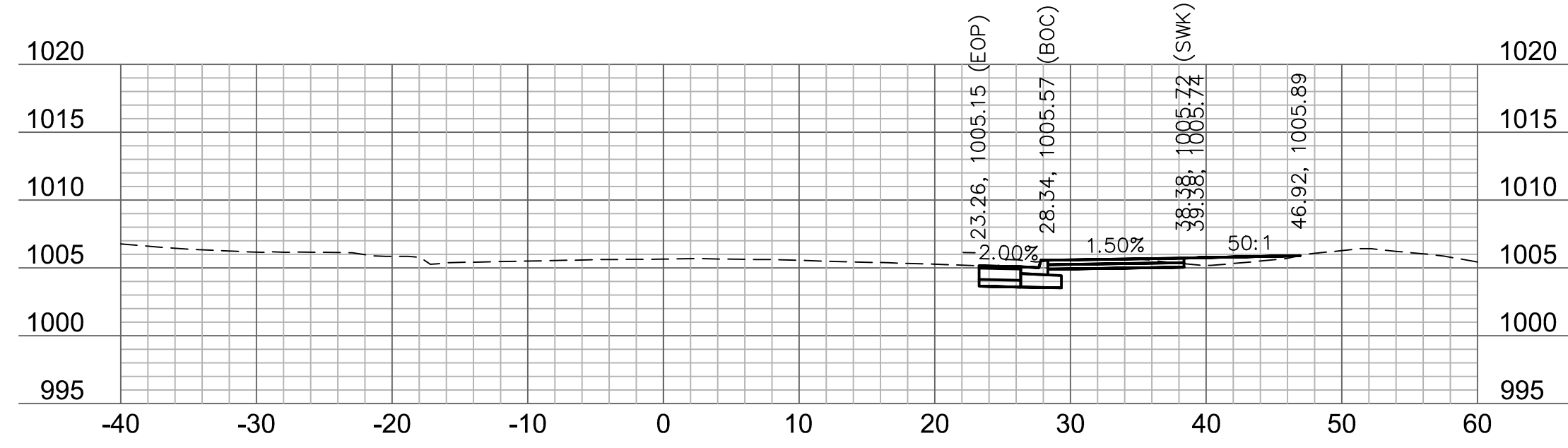
CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809



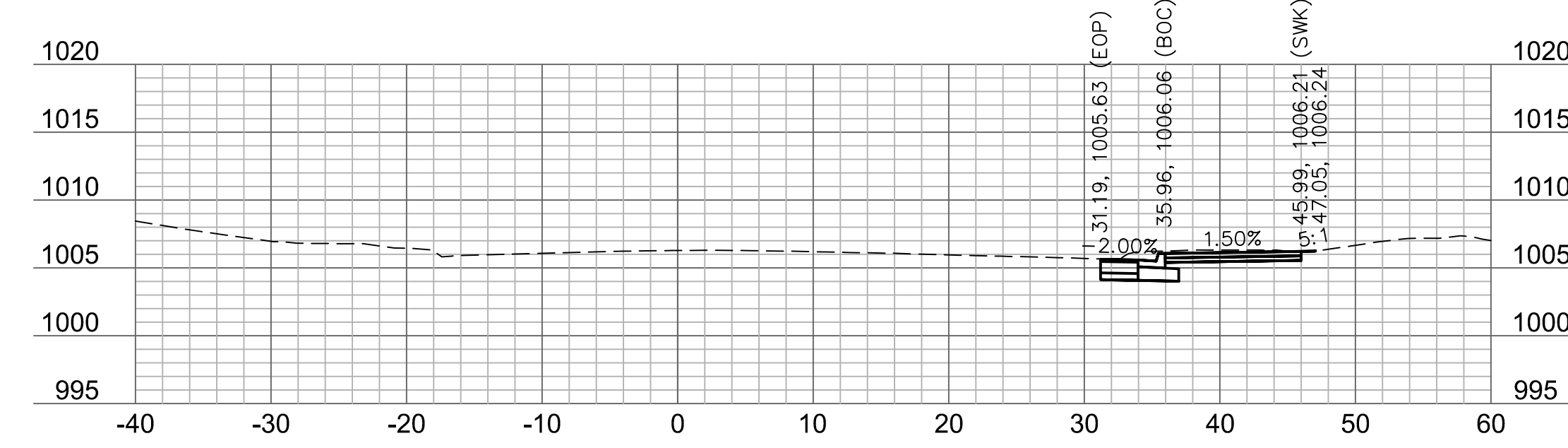
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TRAFFIC CONTROL DETAILS
Standard Drawing TC-1

Drawn By: JJW
Checked By: MP
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Project No.: X

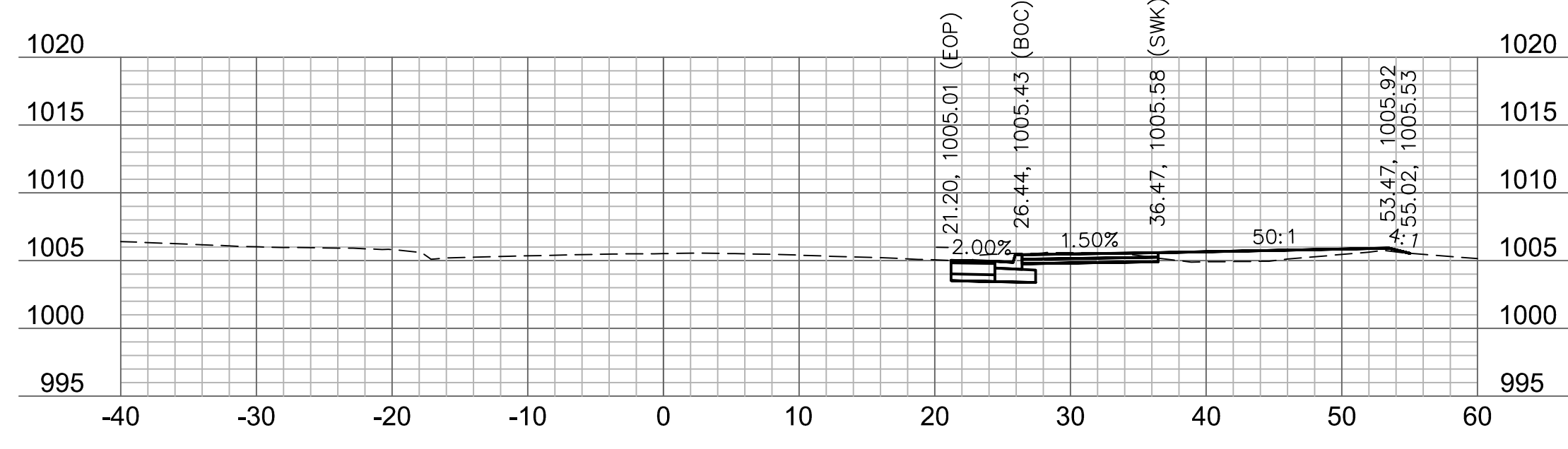
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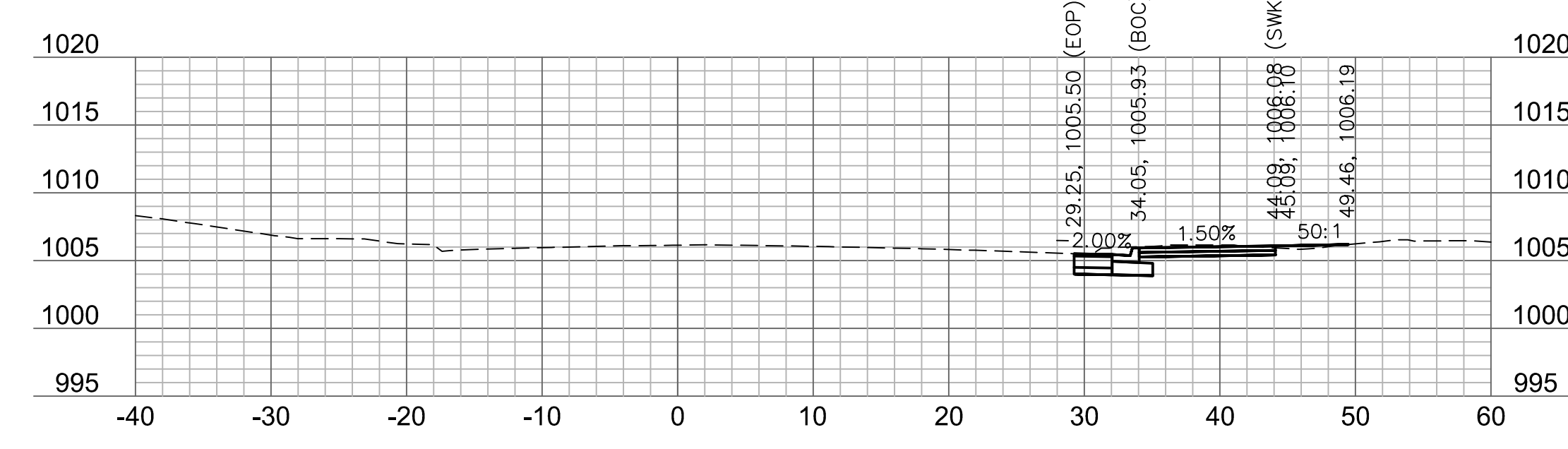
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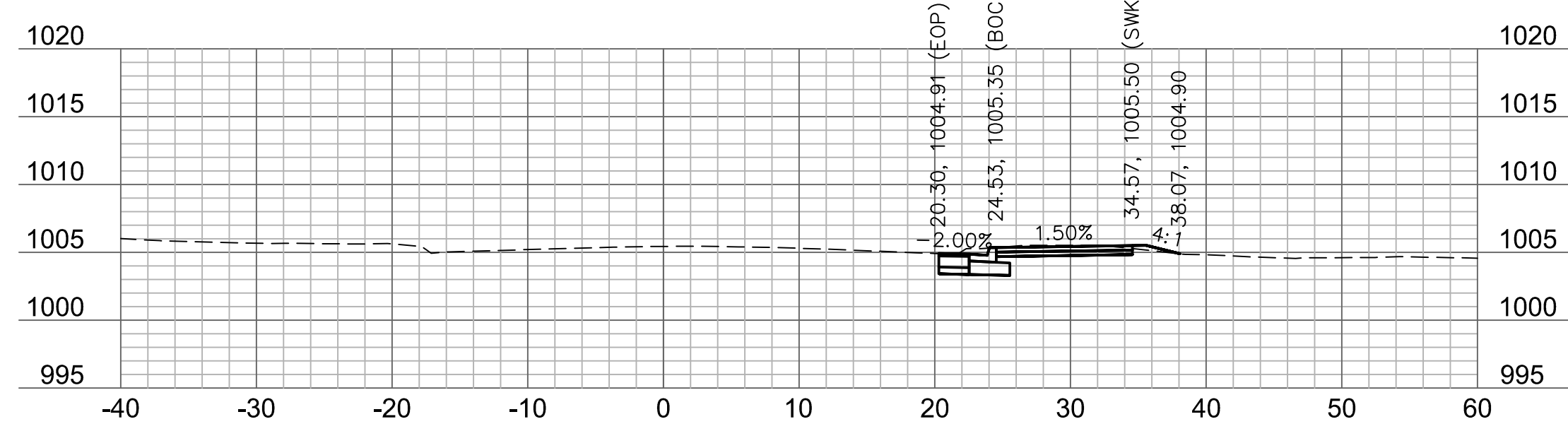
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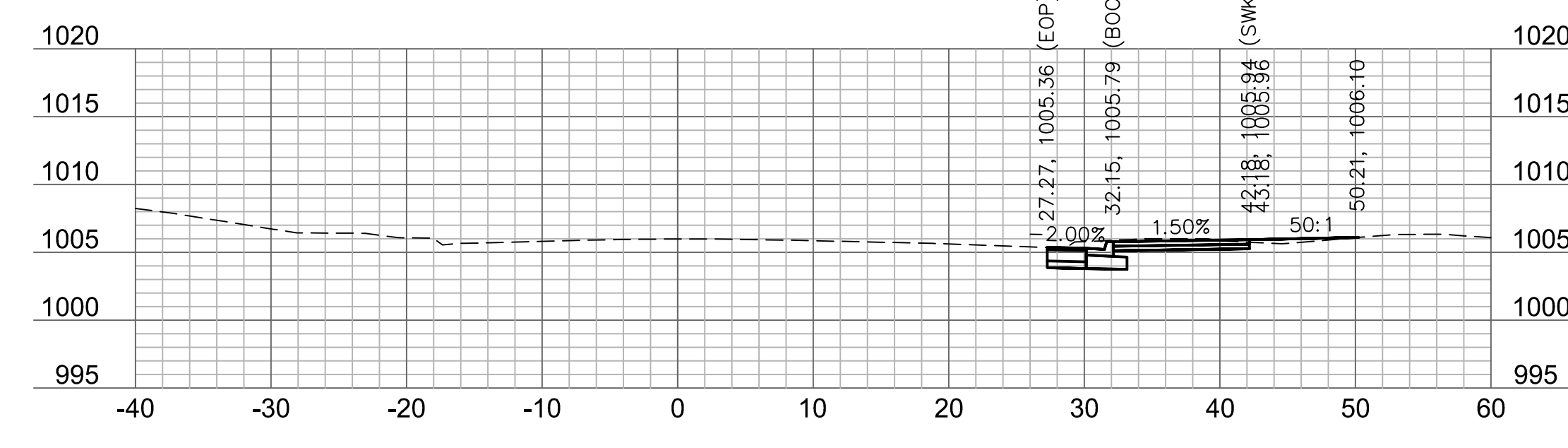
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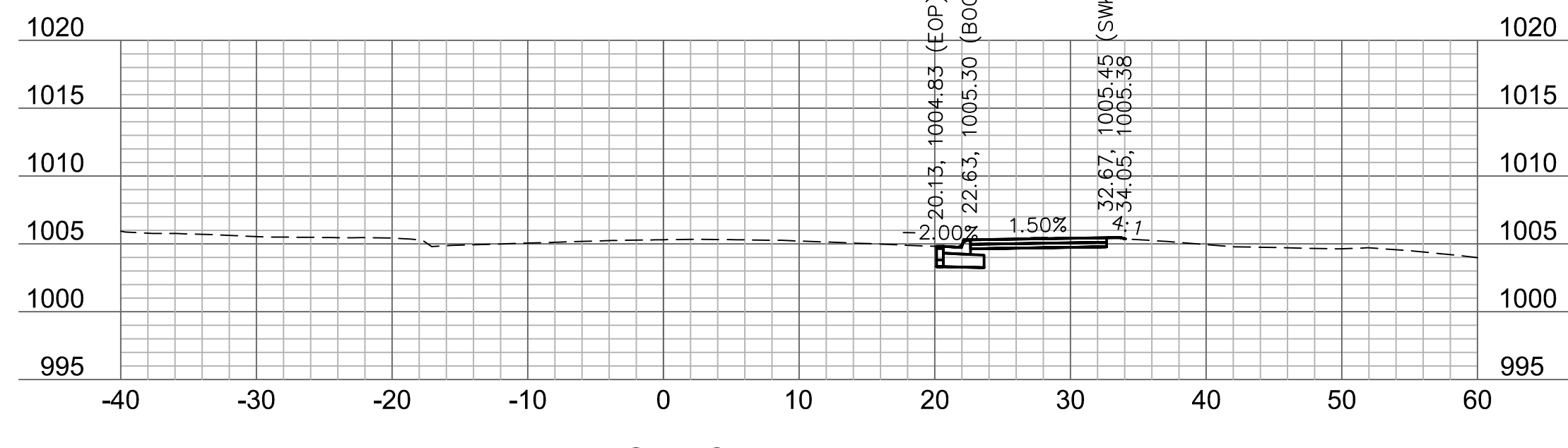
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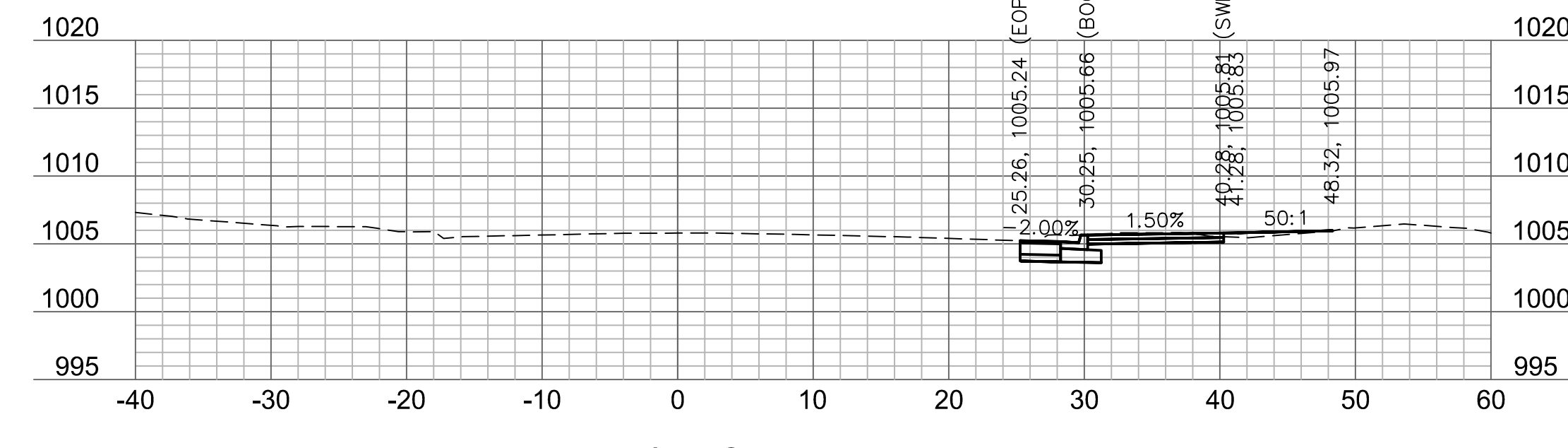
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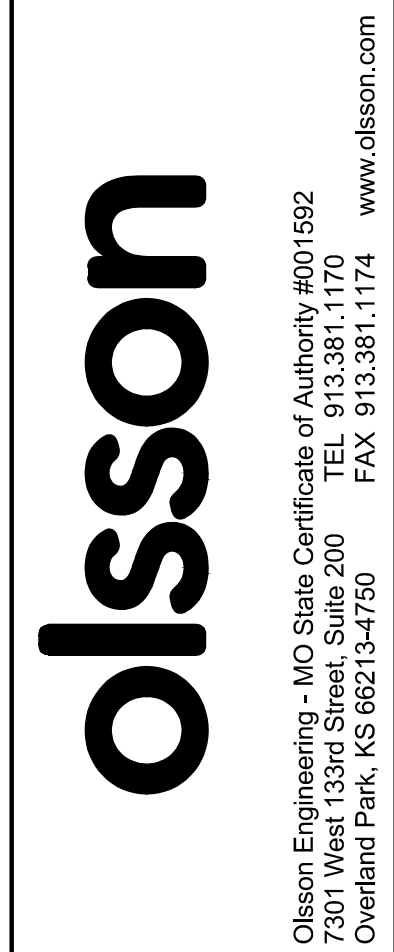
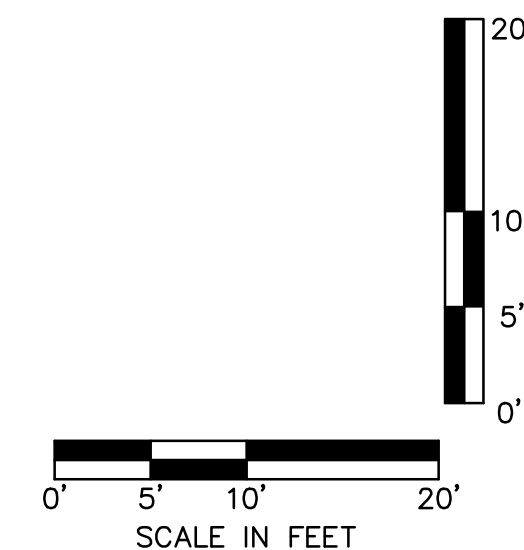
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53+50



54+50



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FINAL PLANS
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 MO. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

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 CROSS SECTIONS

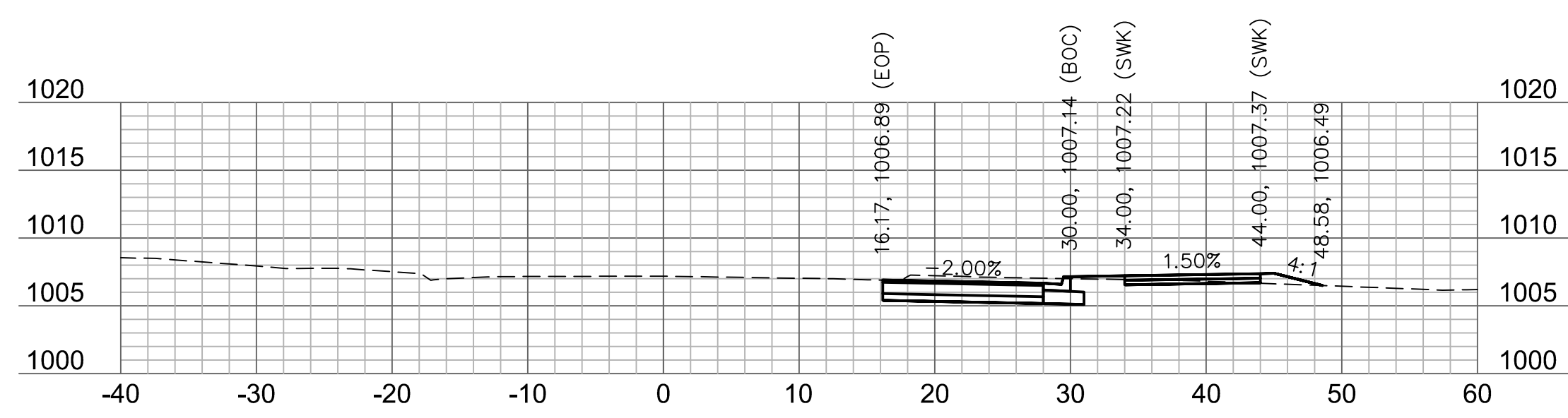
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LEE'S SUMMIT, MISSOURI

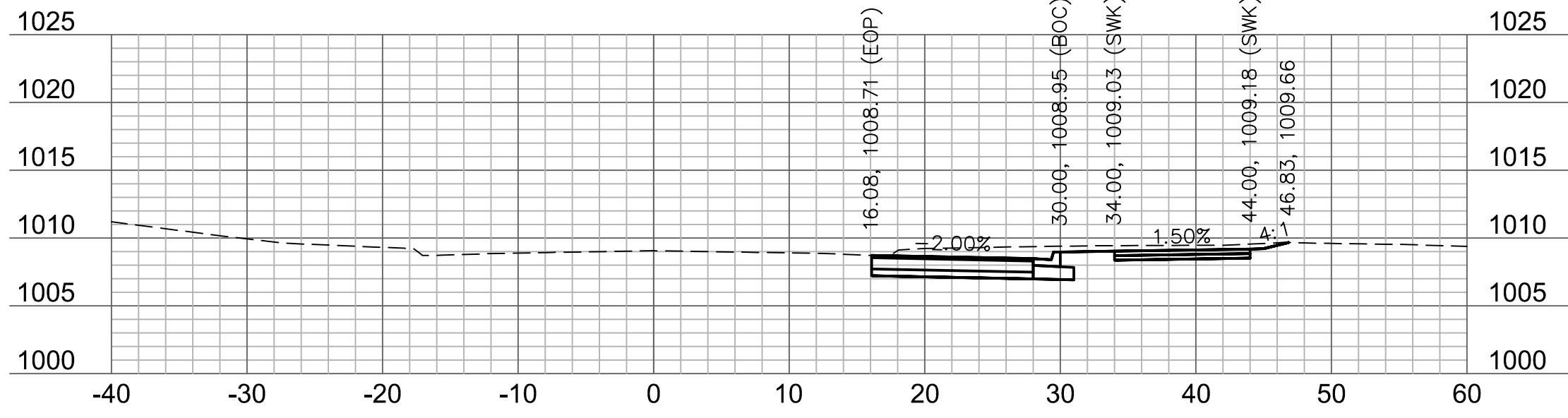
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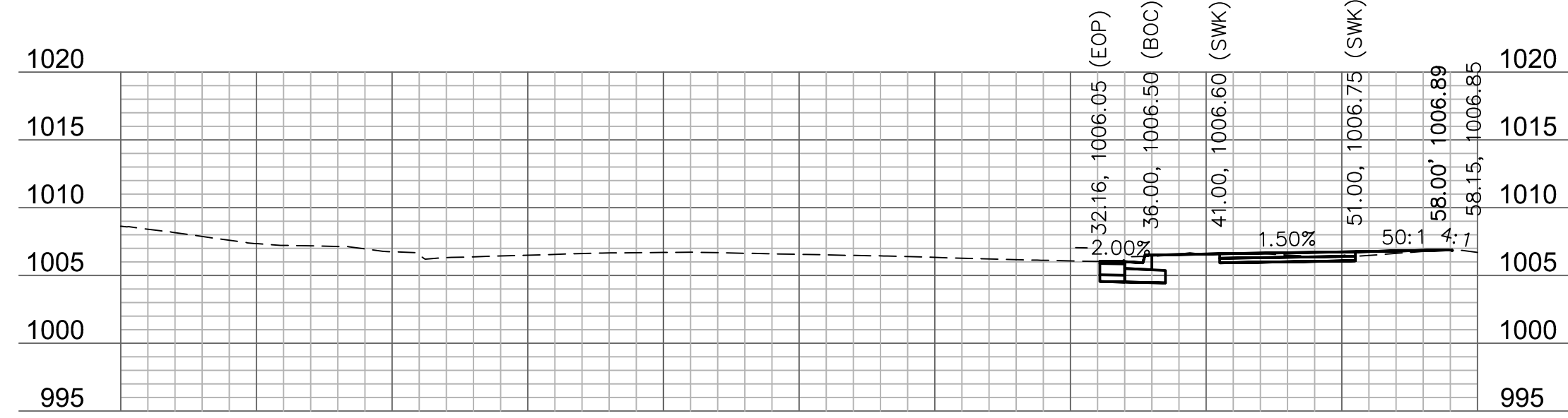
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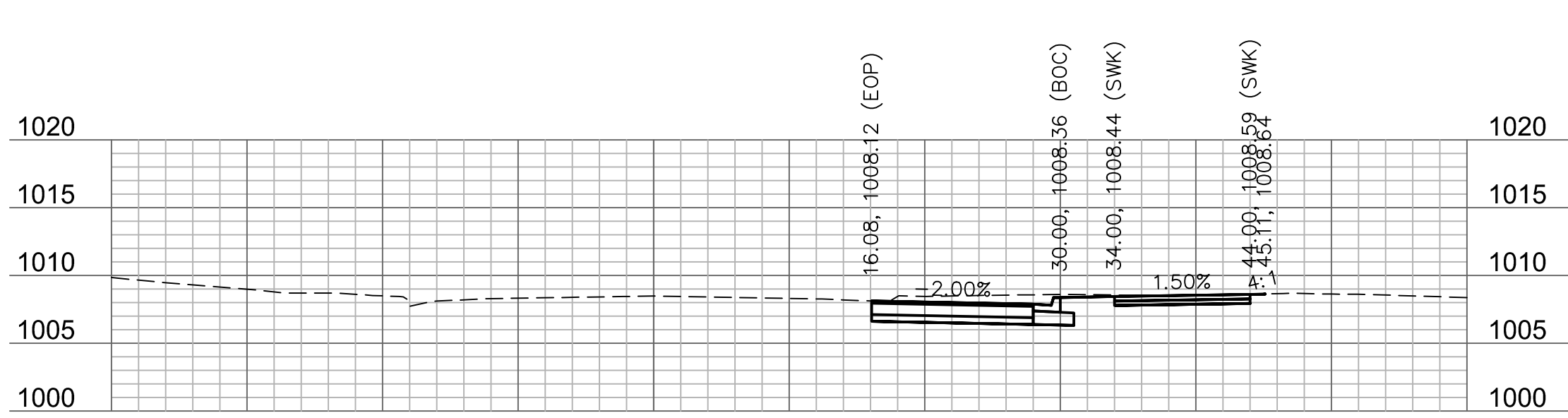
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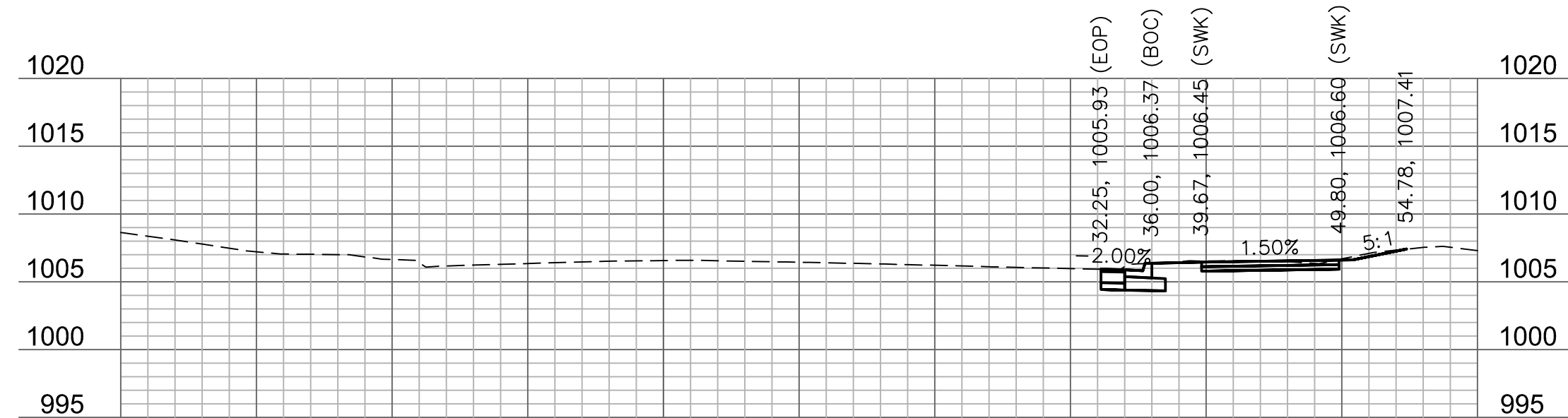
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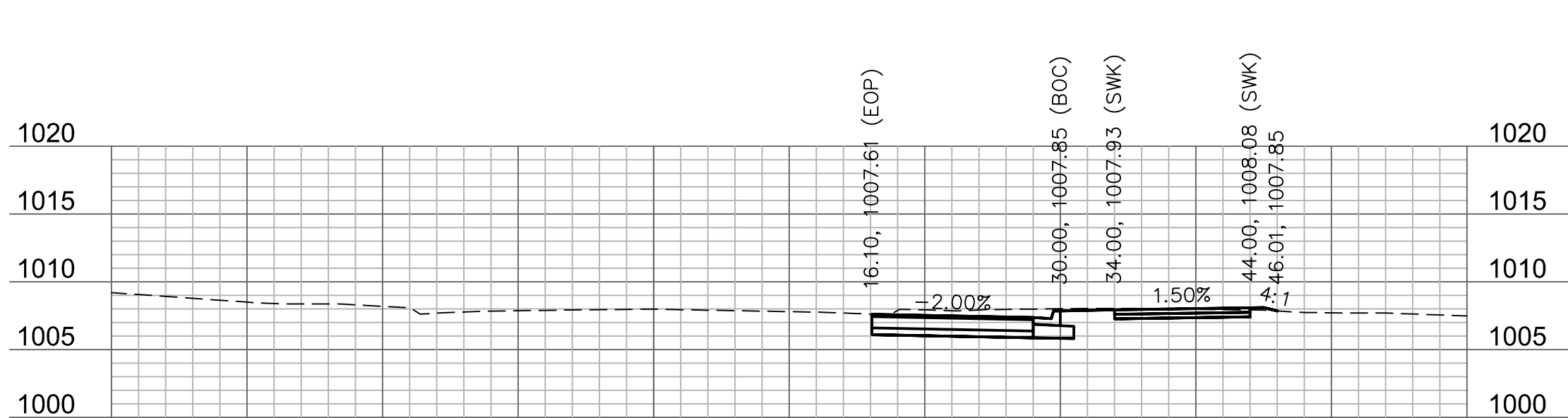
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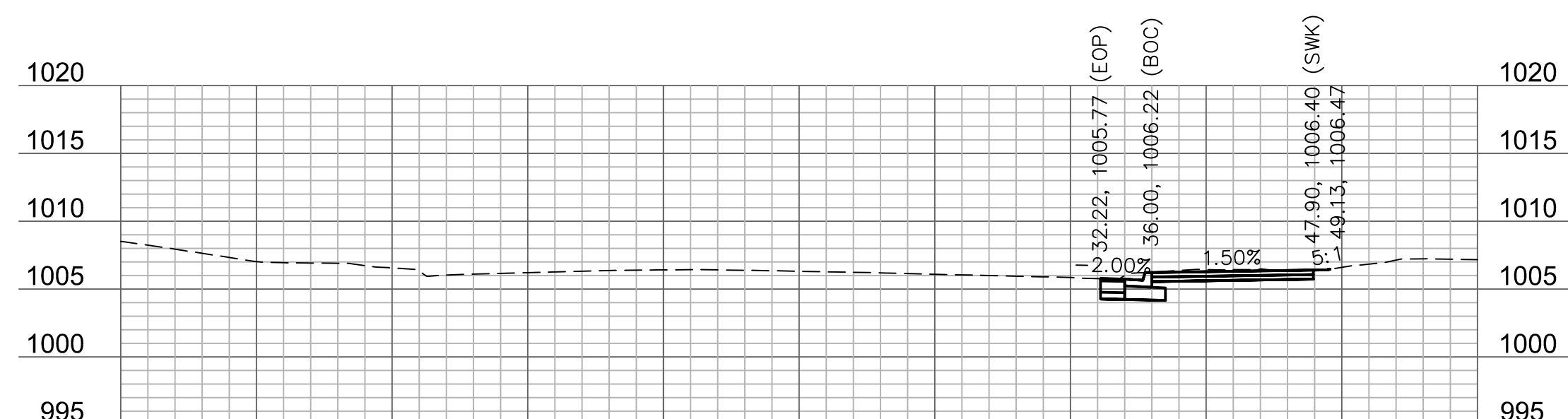
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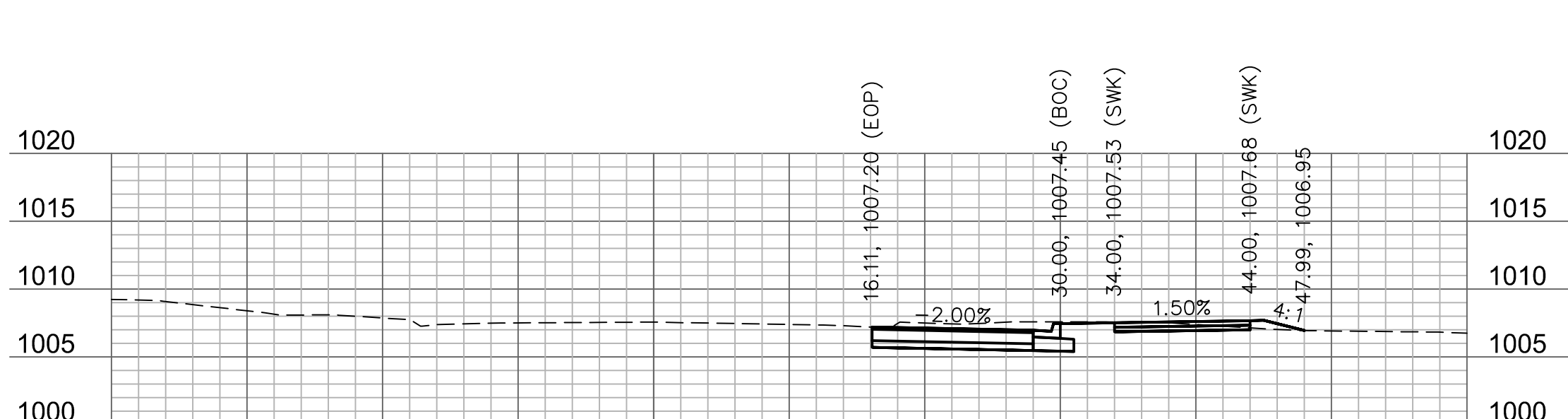
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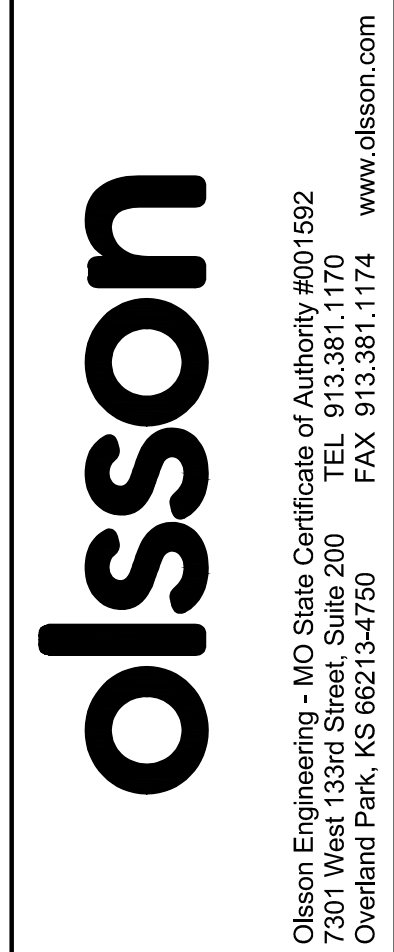
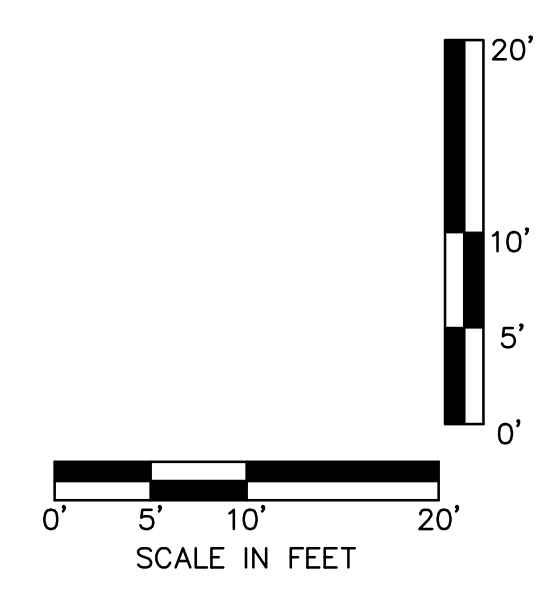
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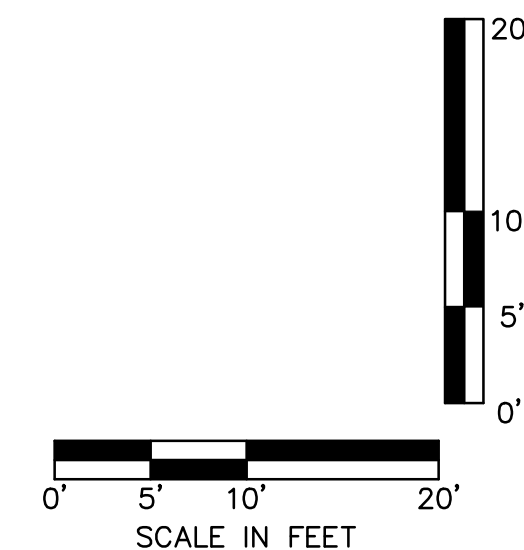
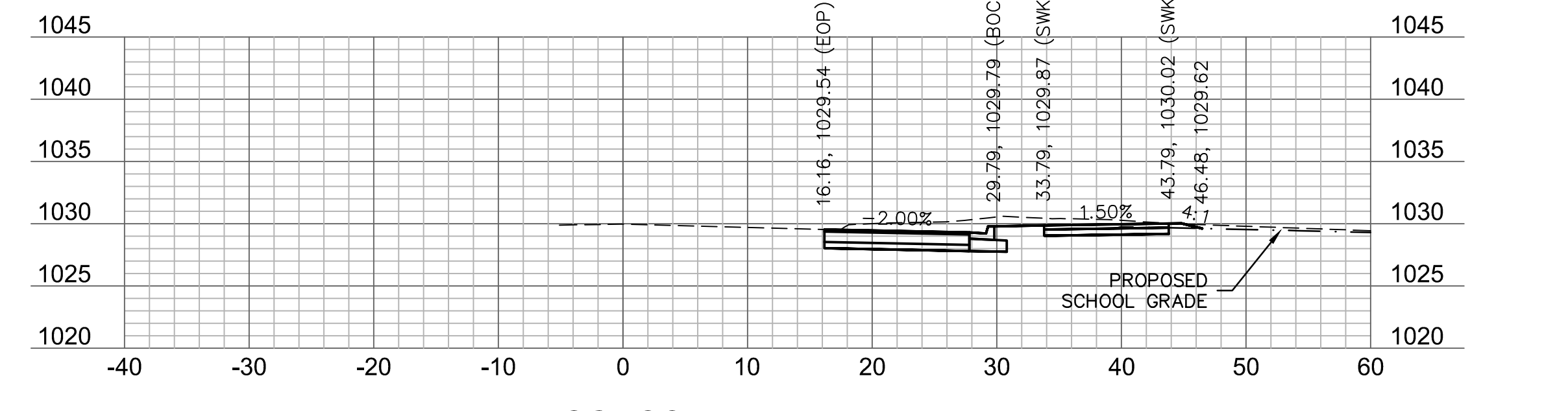
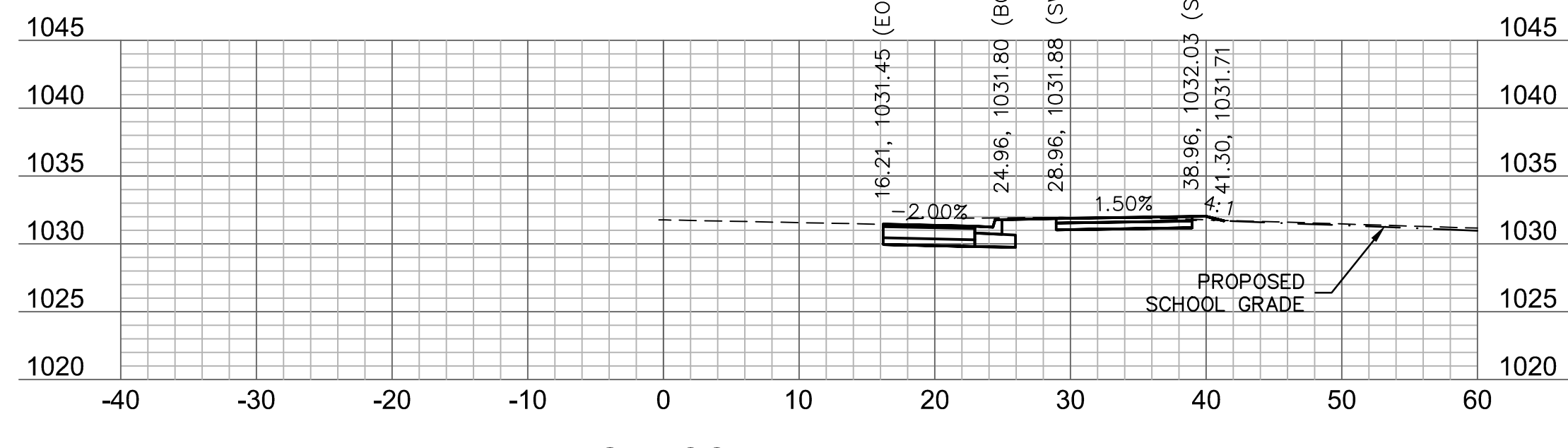
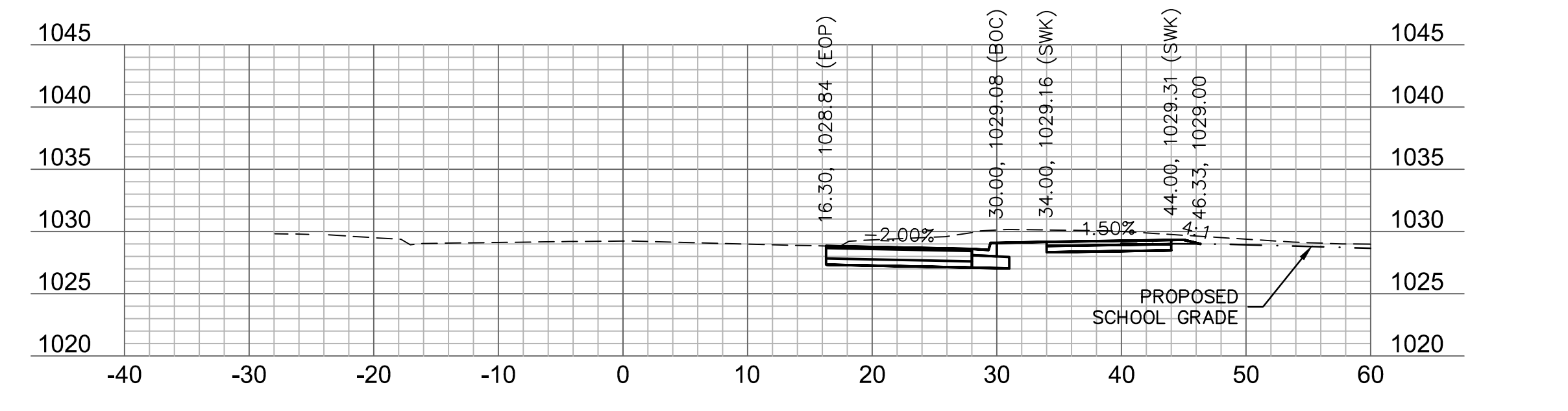
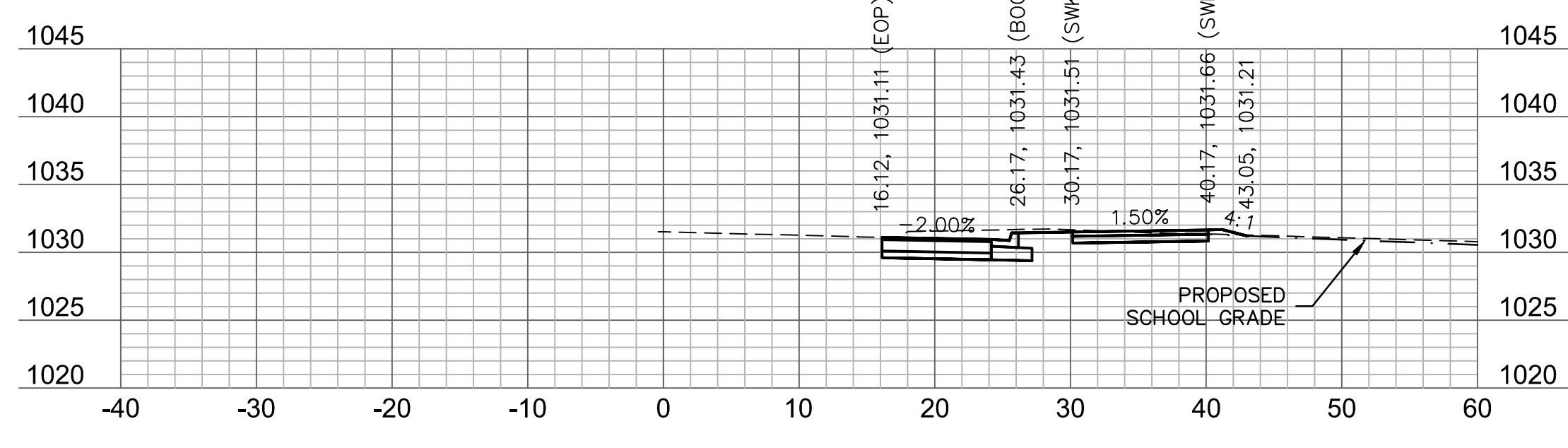
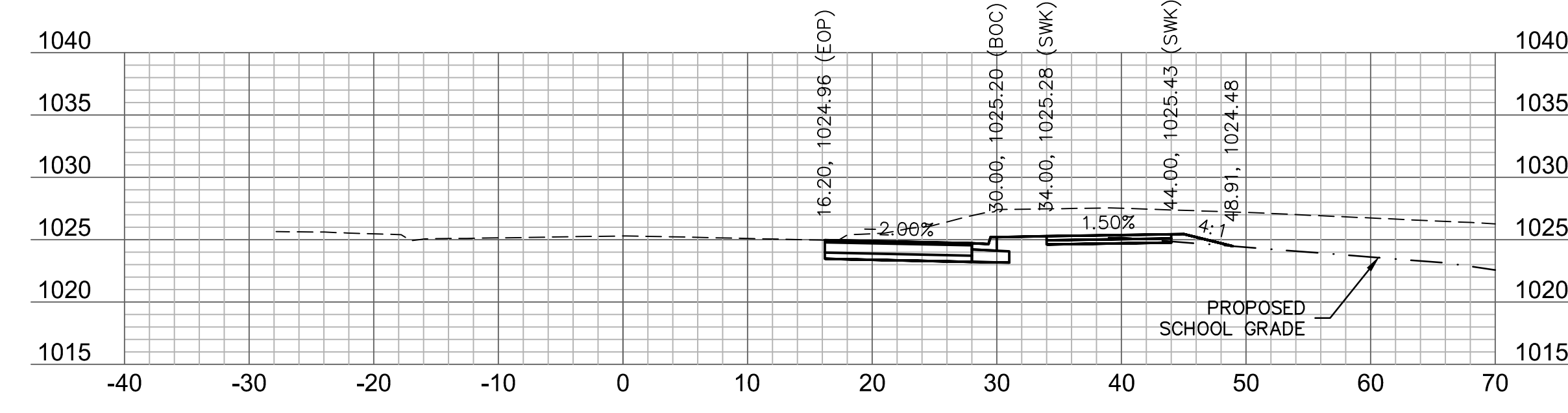
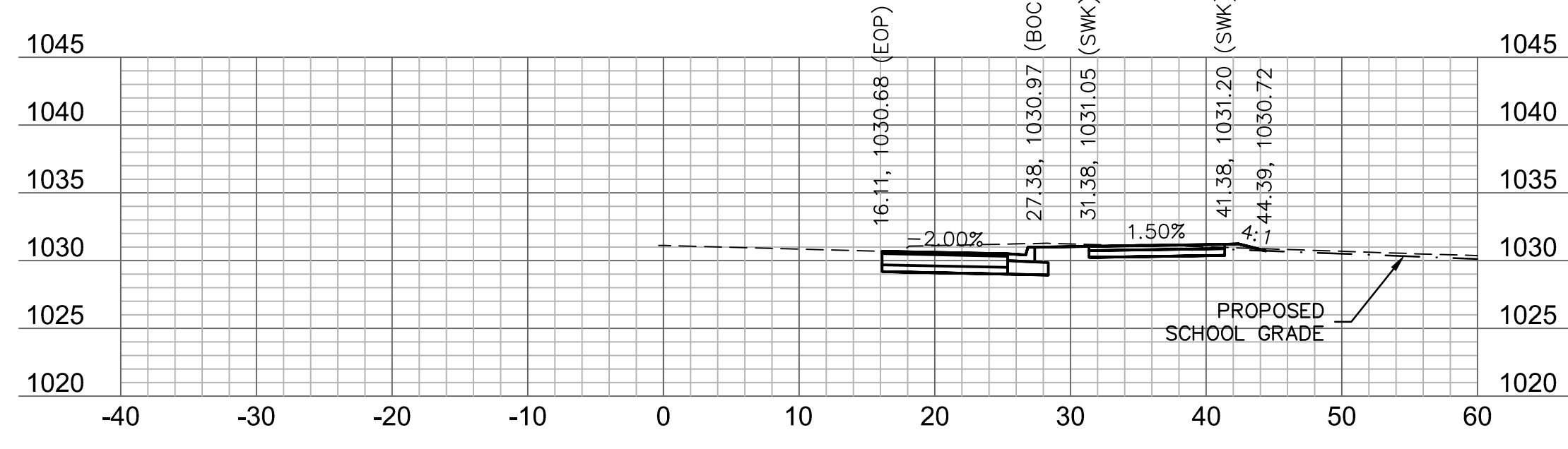
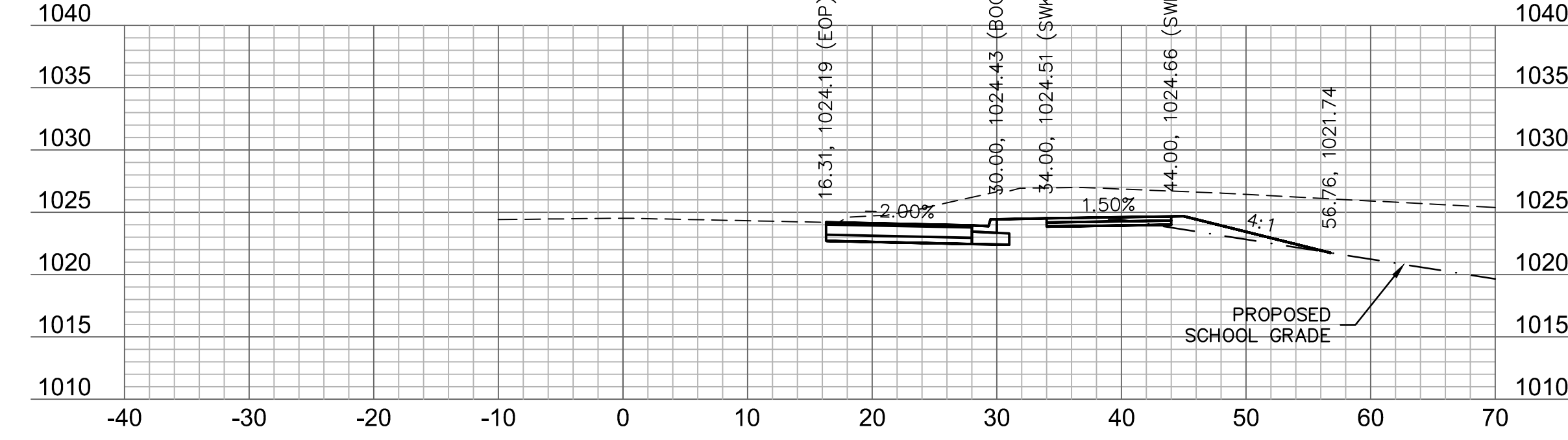
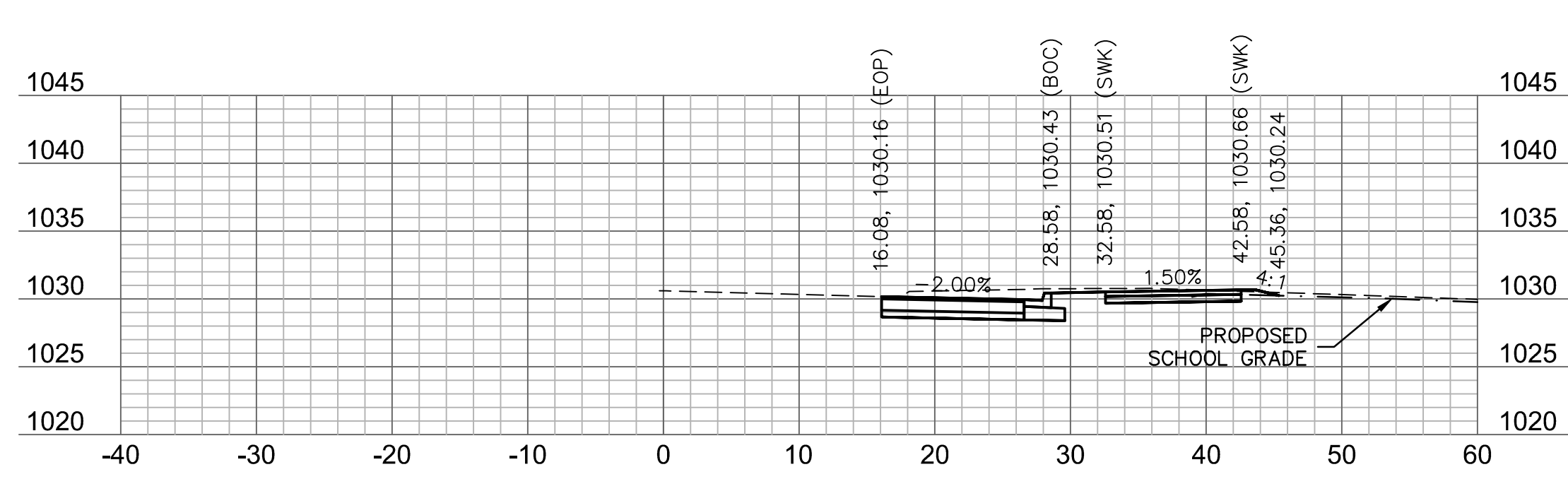
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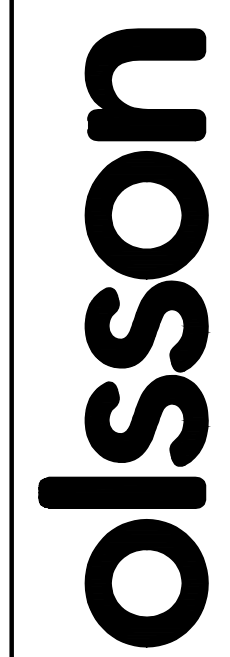
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 LEE'S SUMMIT, MISSOURI

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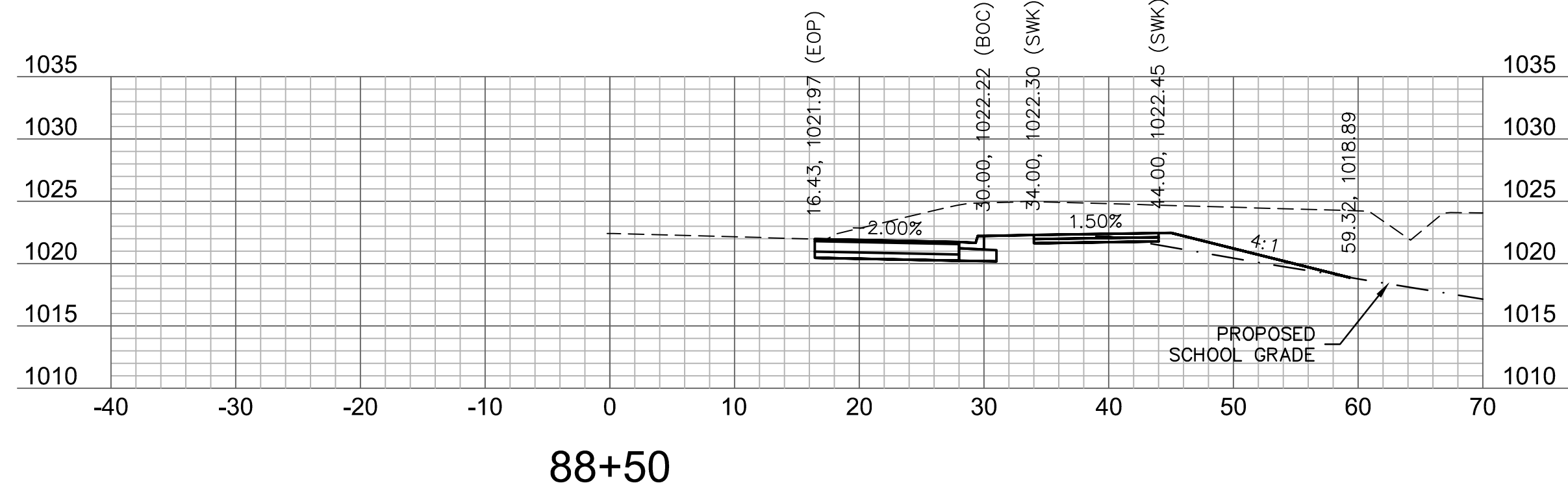
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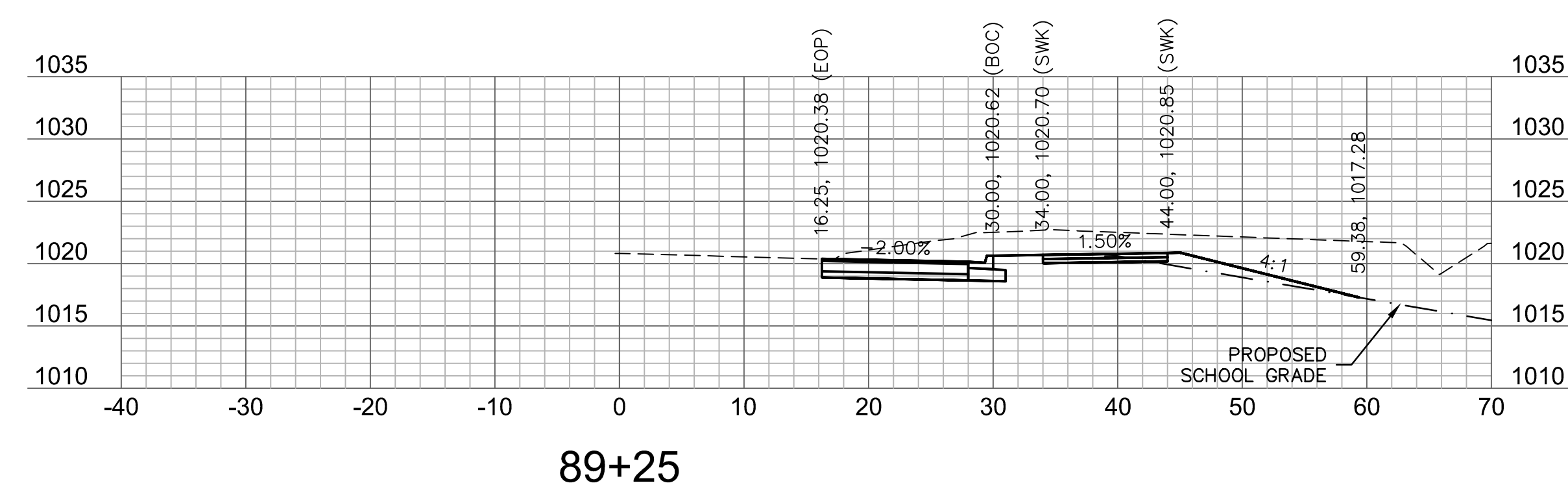
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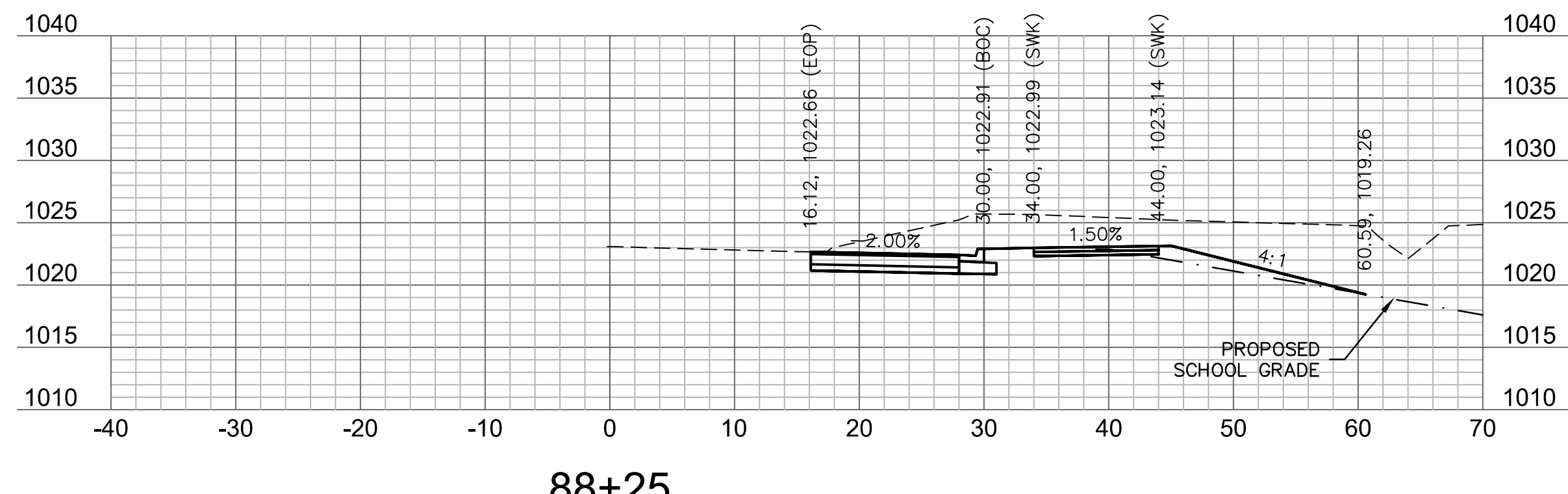
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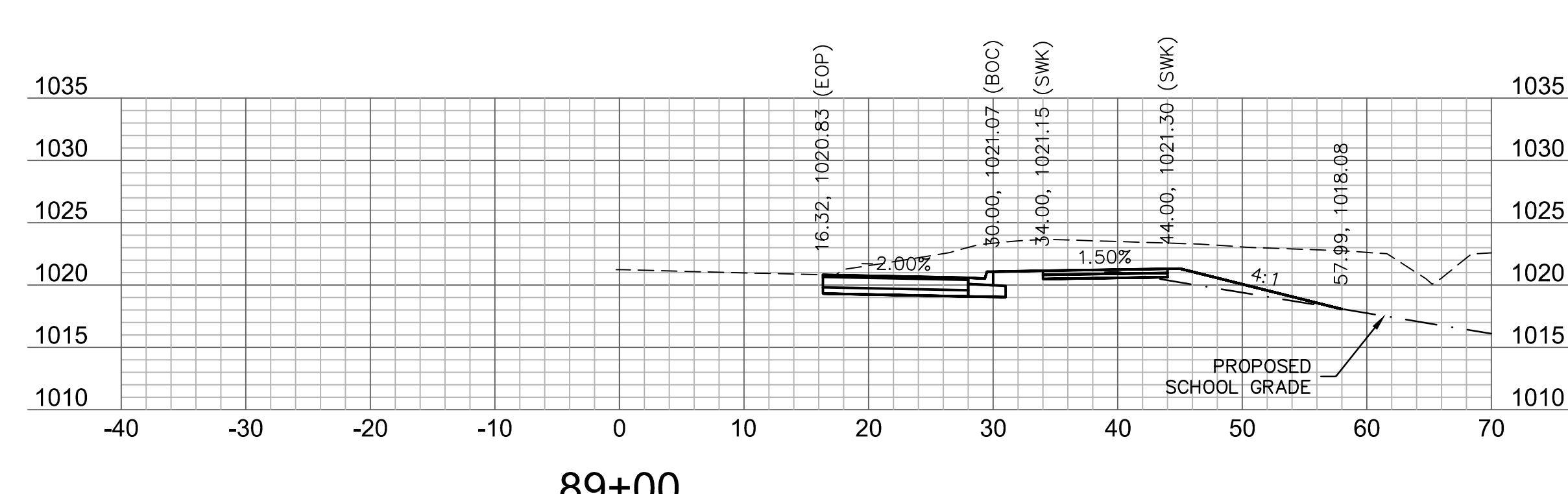
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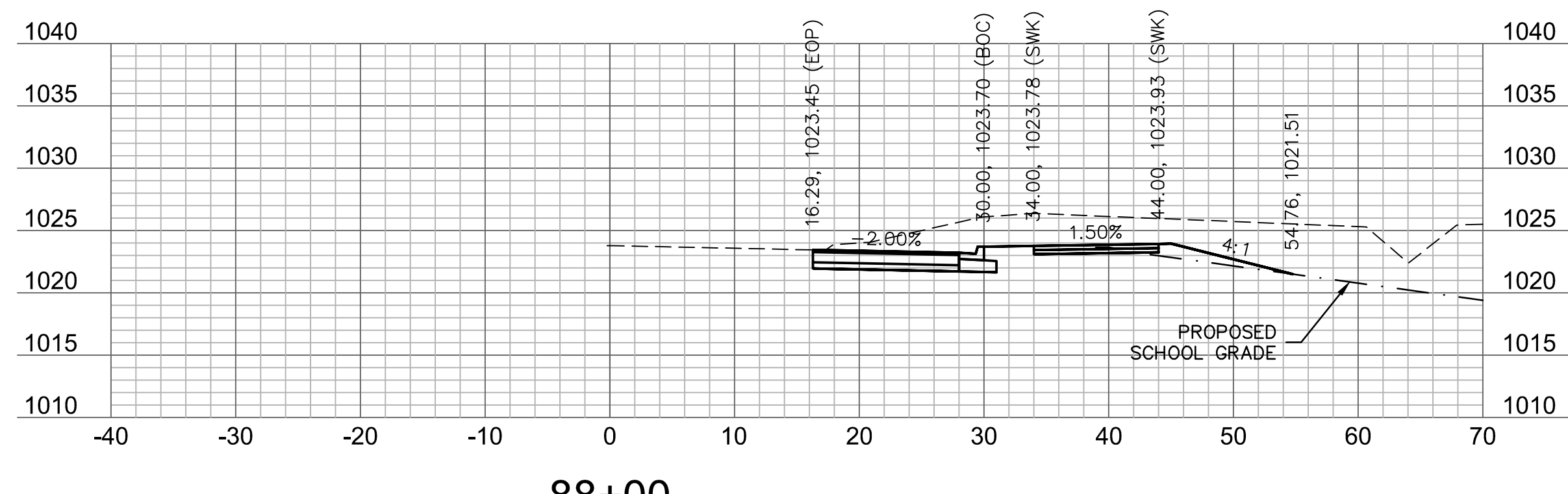
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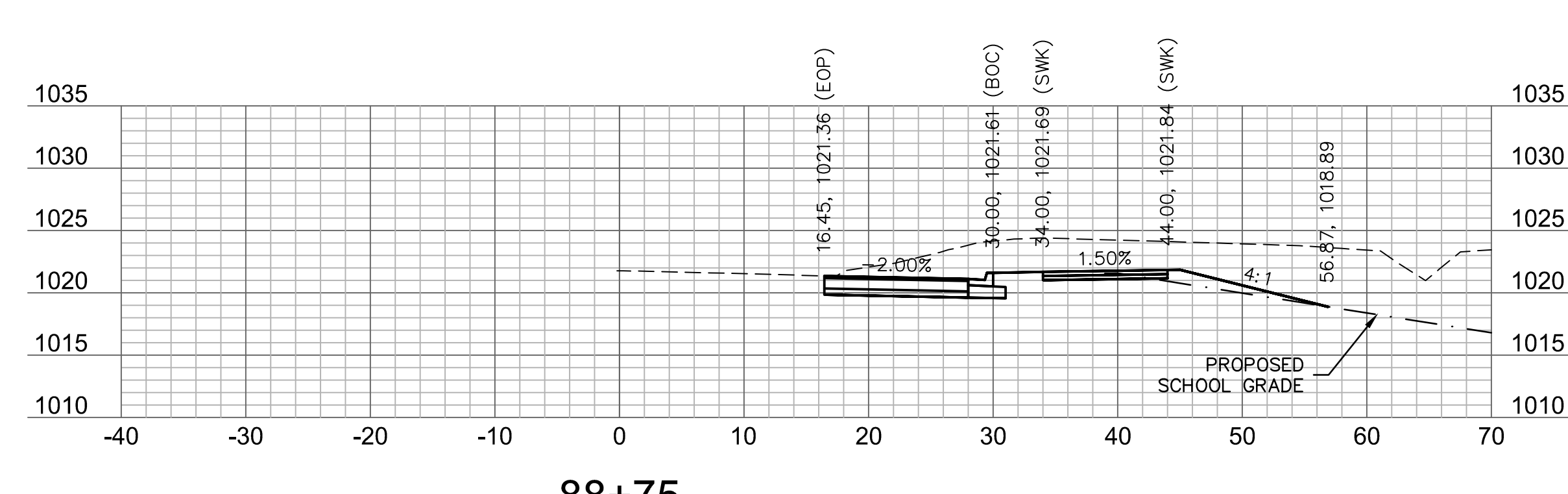
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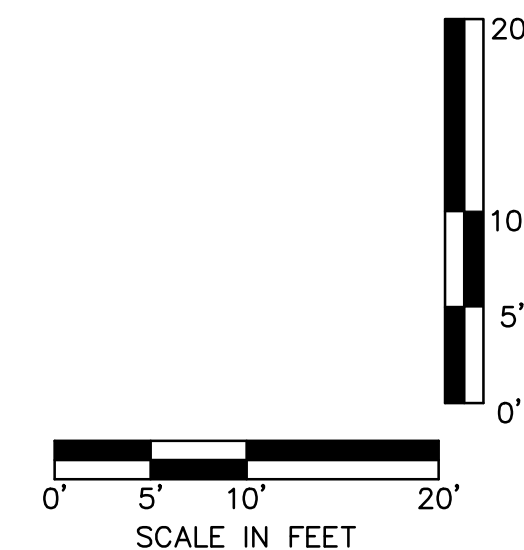
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88+00



88+75



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 MO. NO. PE-2002003161

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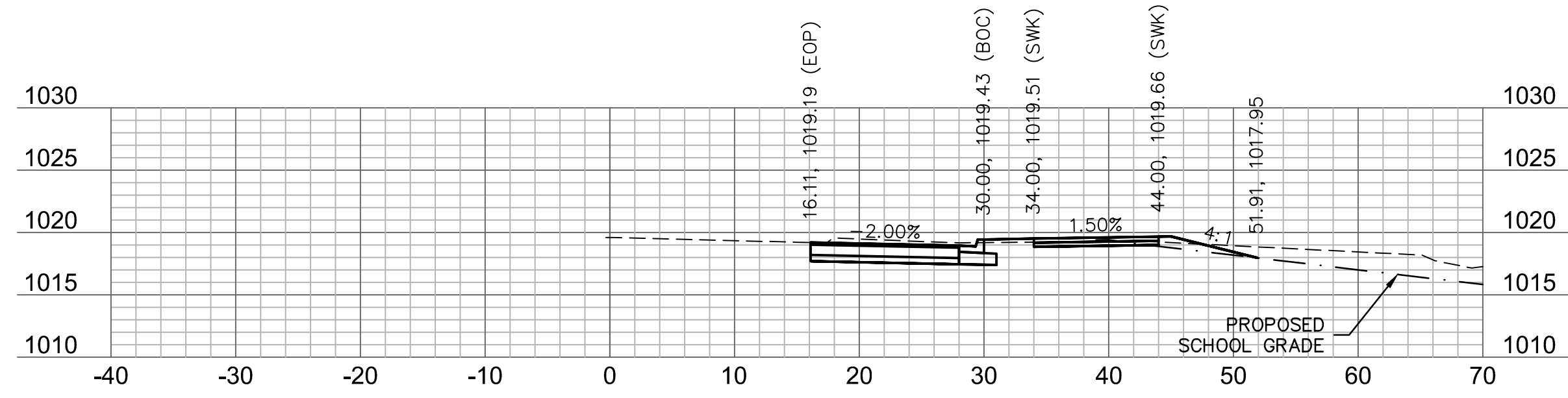
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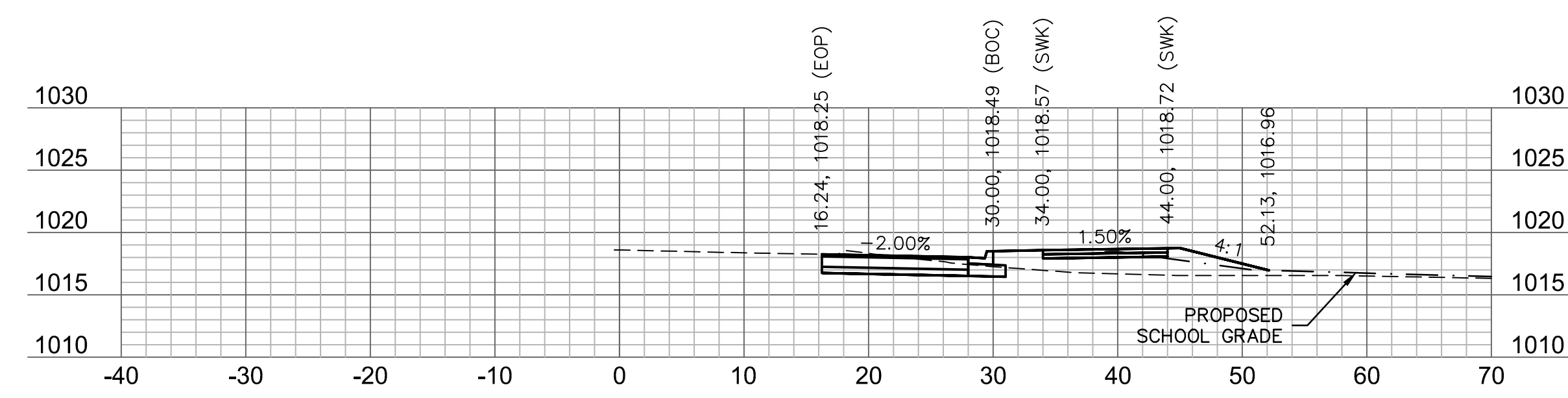
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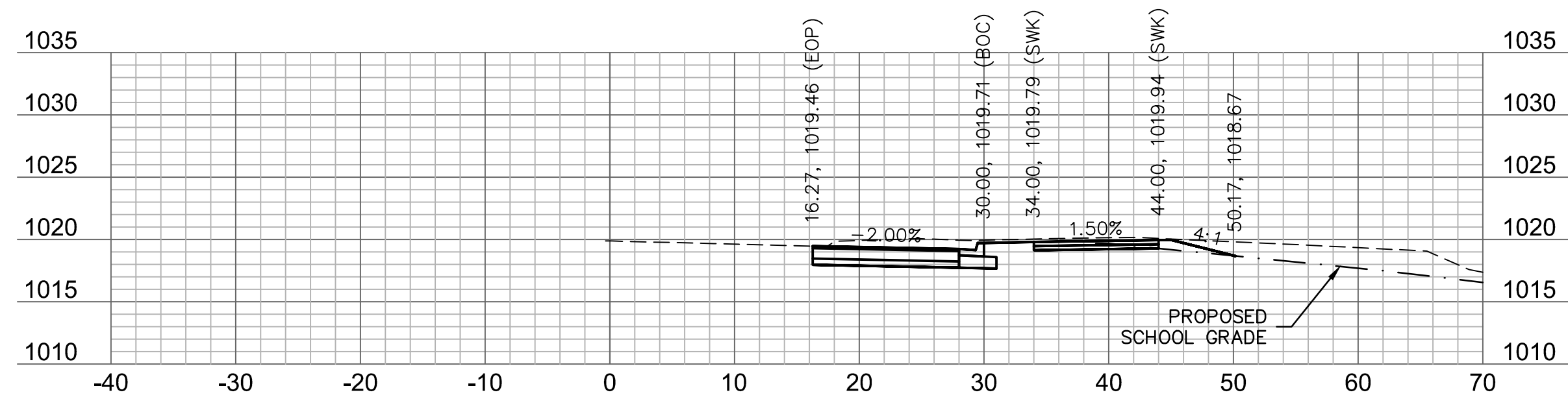
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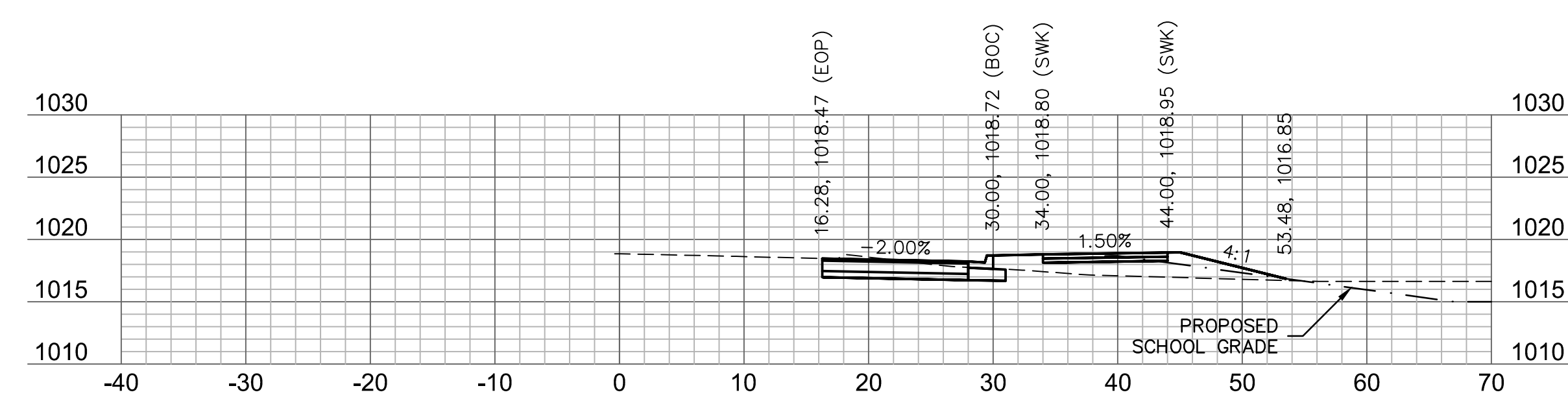
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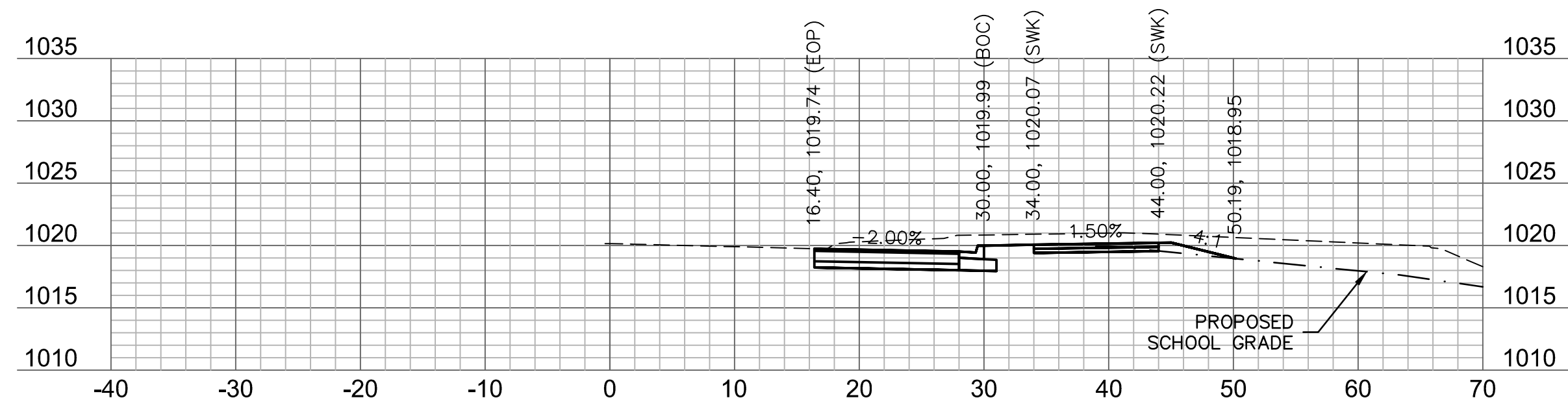
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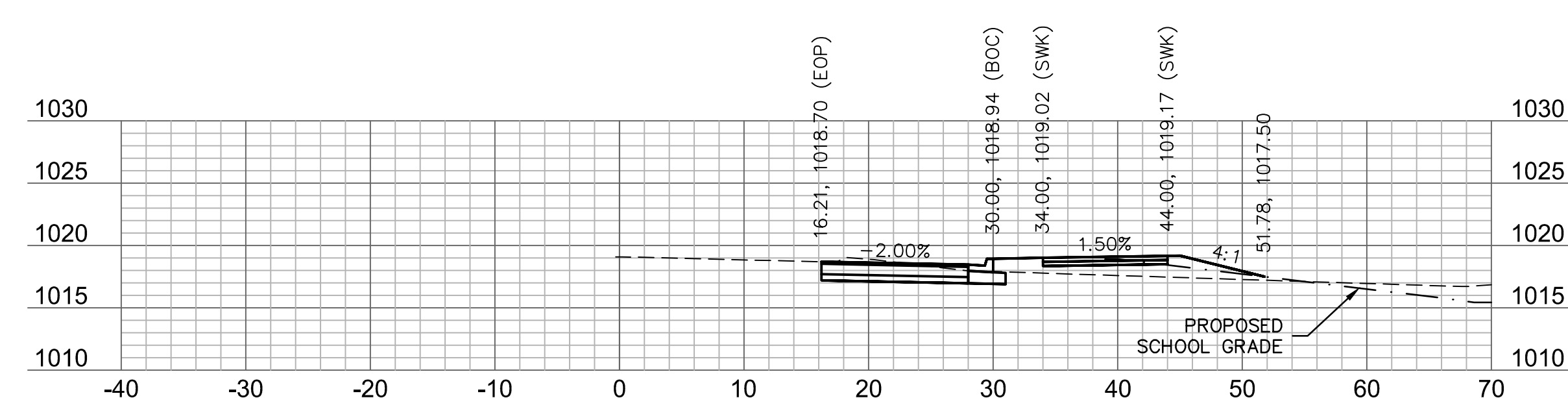
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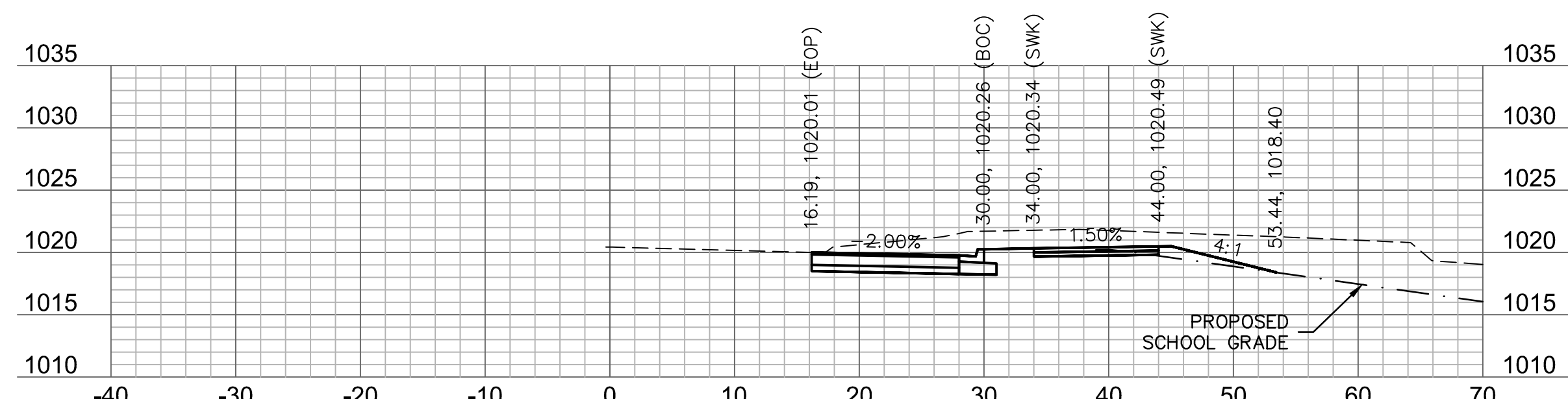
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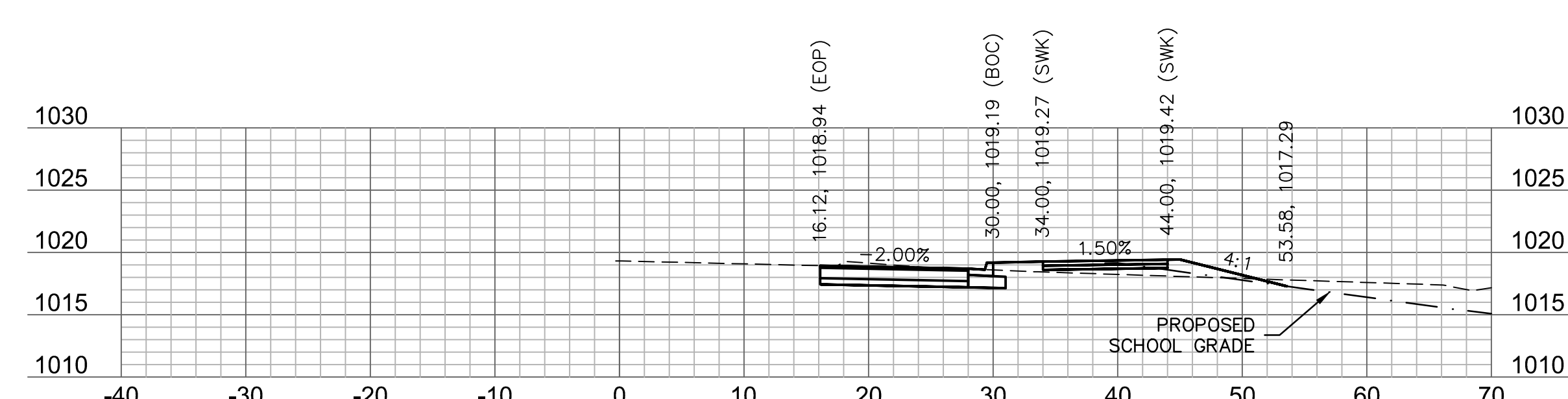
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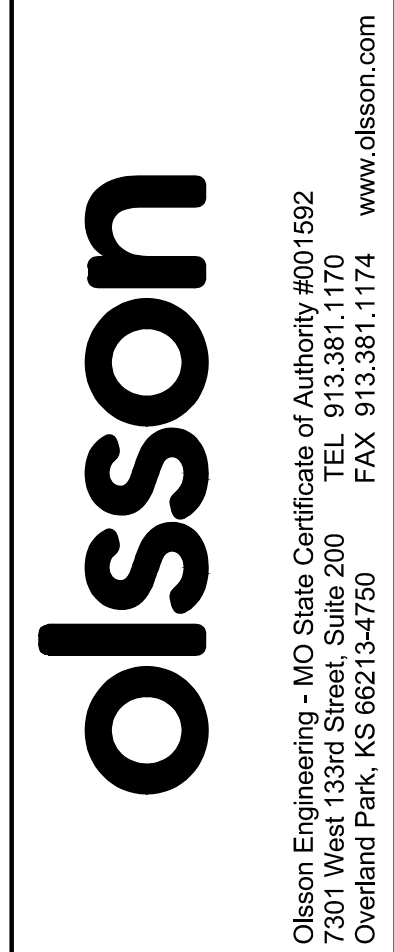
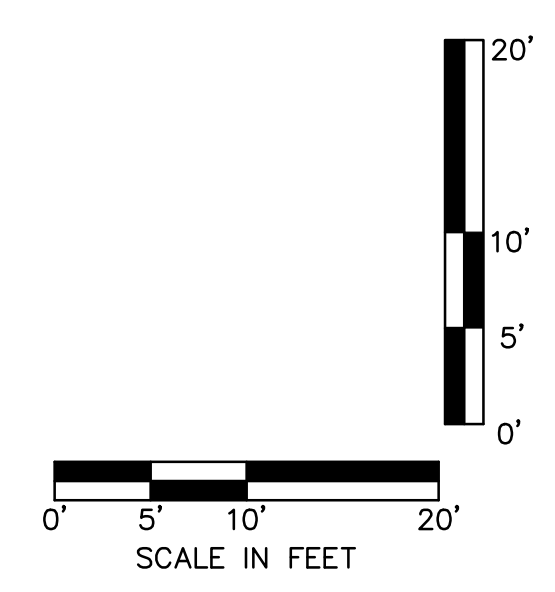
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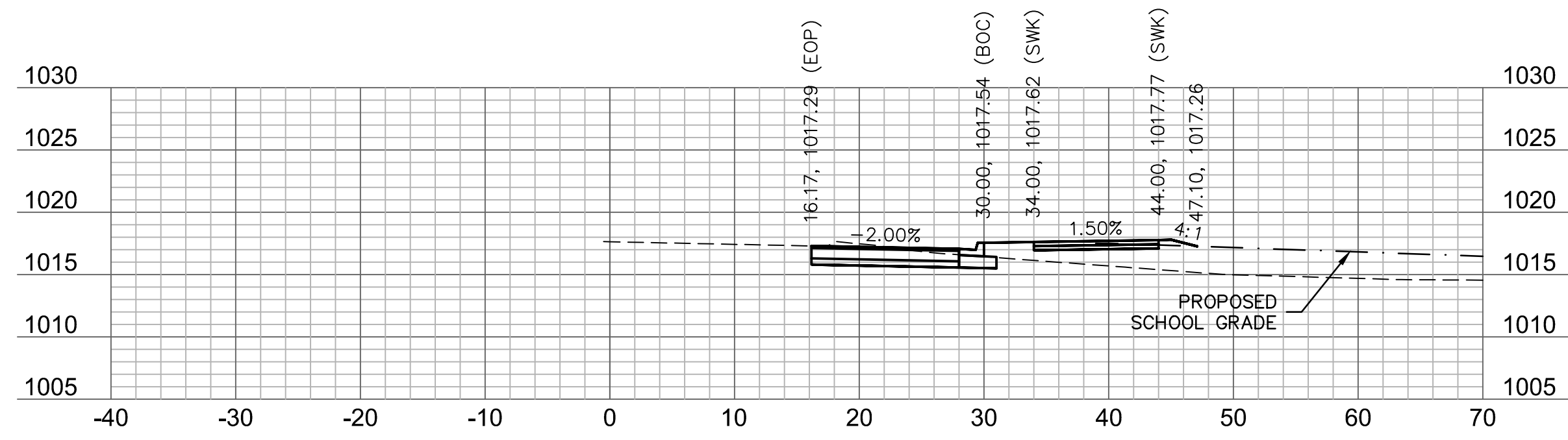
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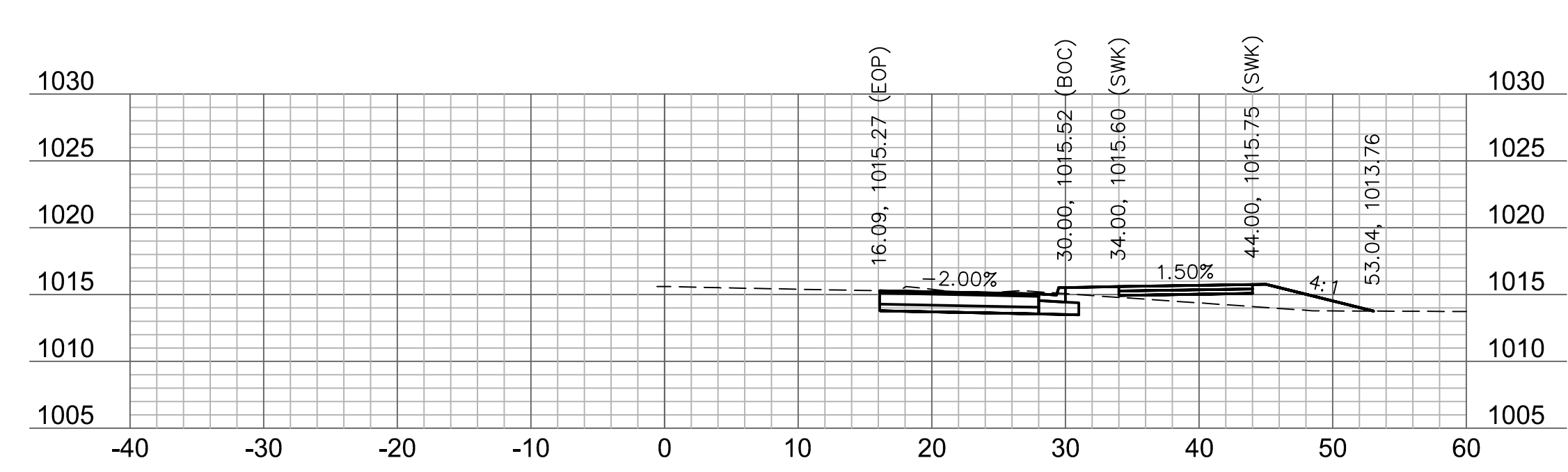
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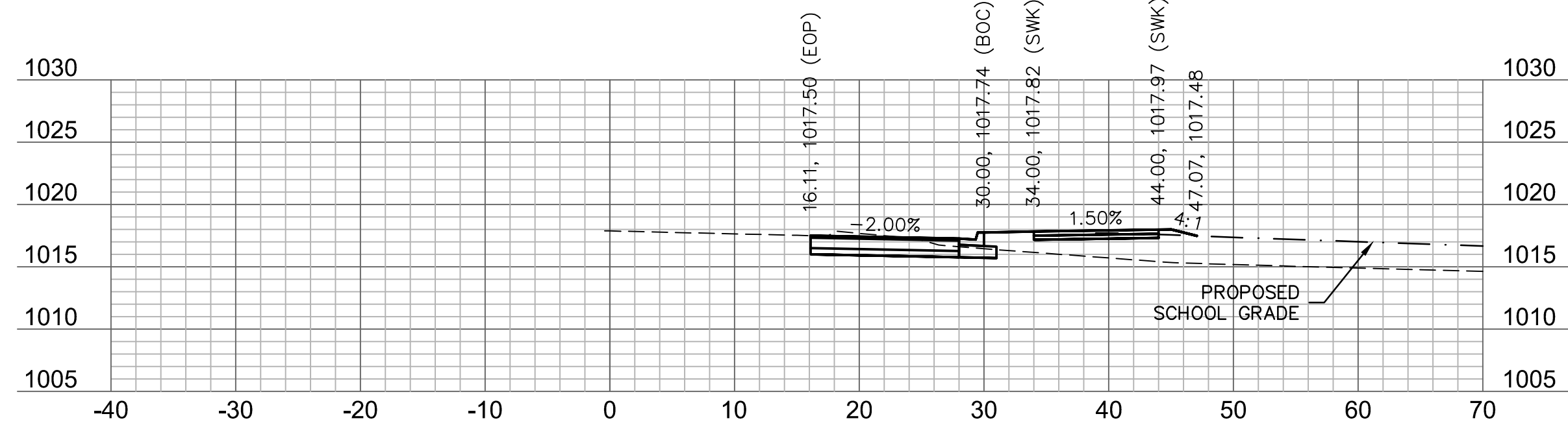
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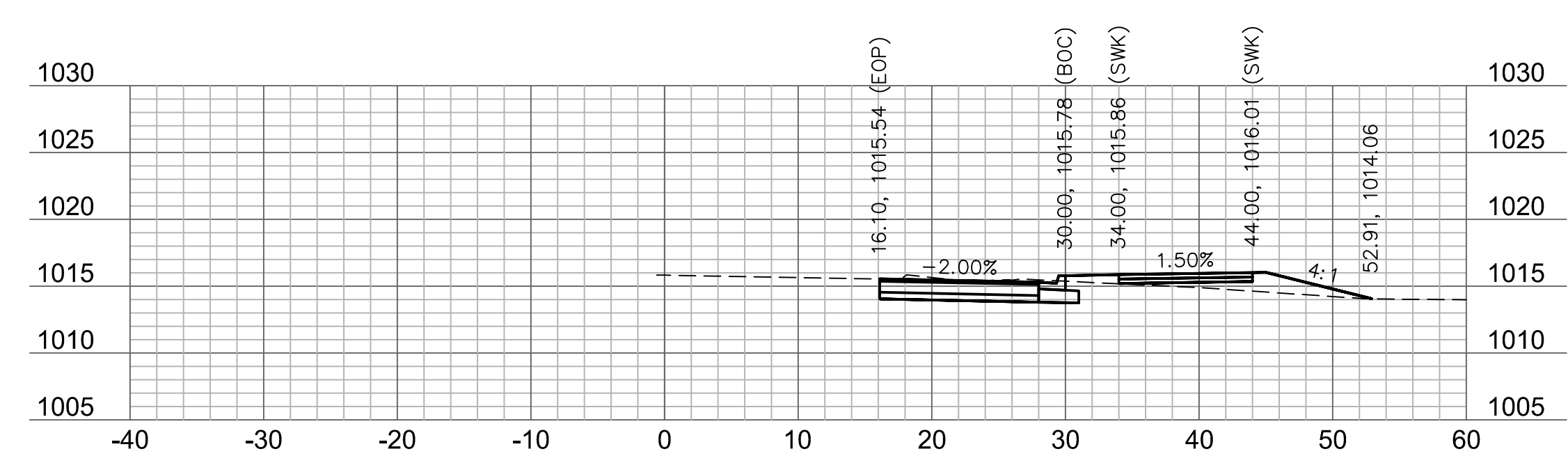
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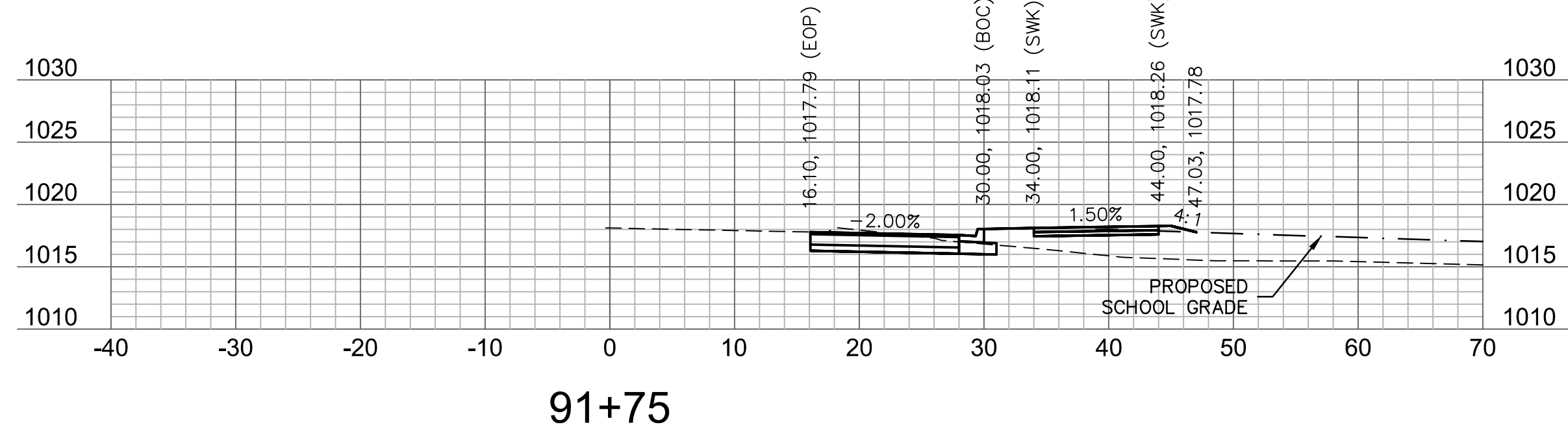
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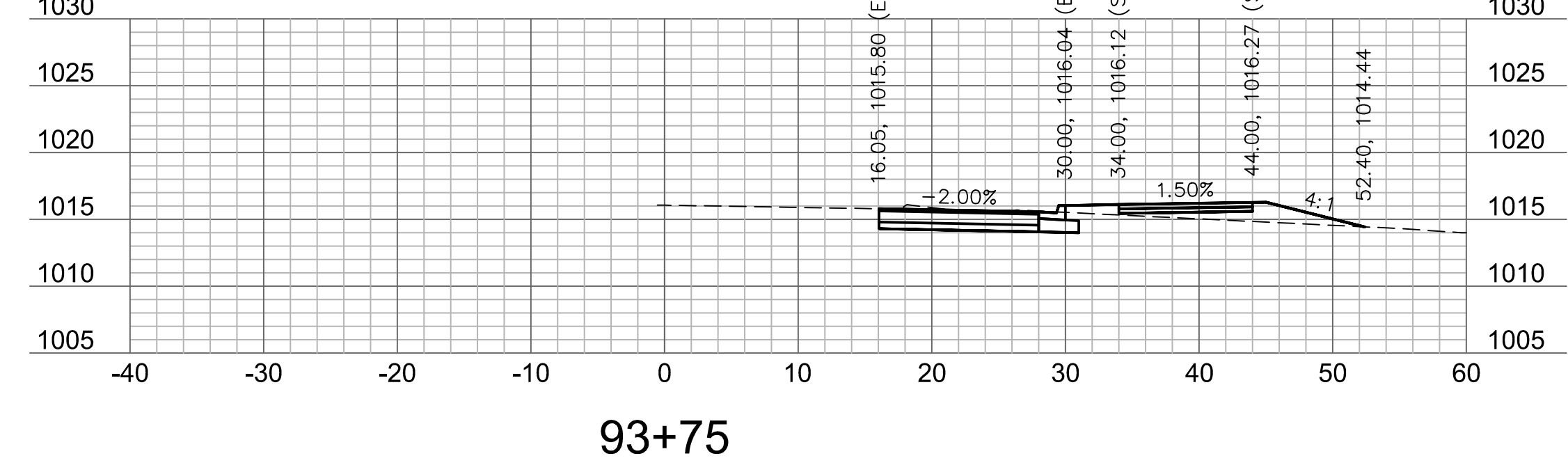
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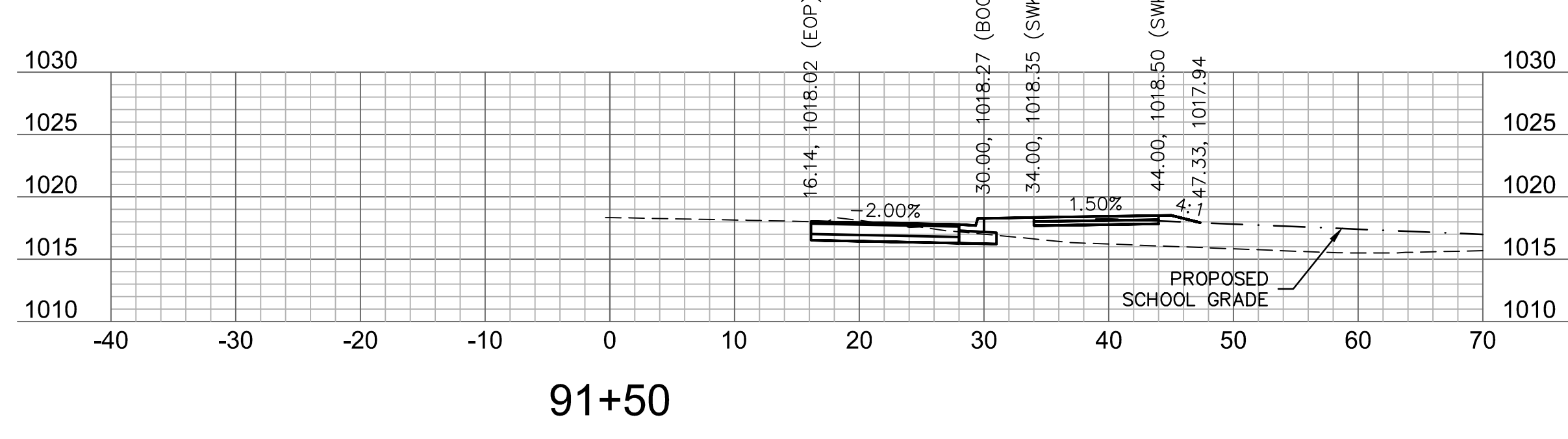
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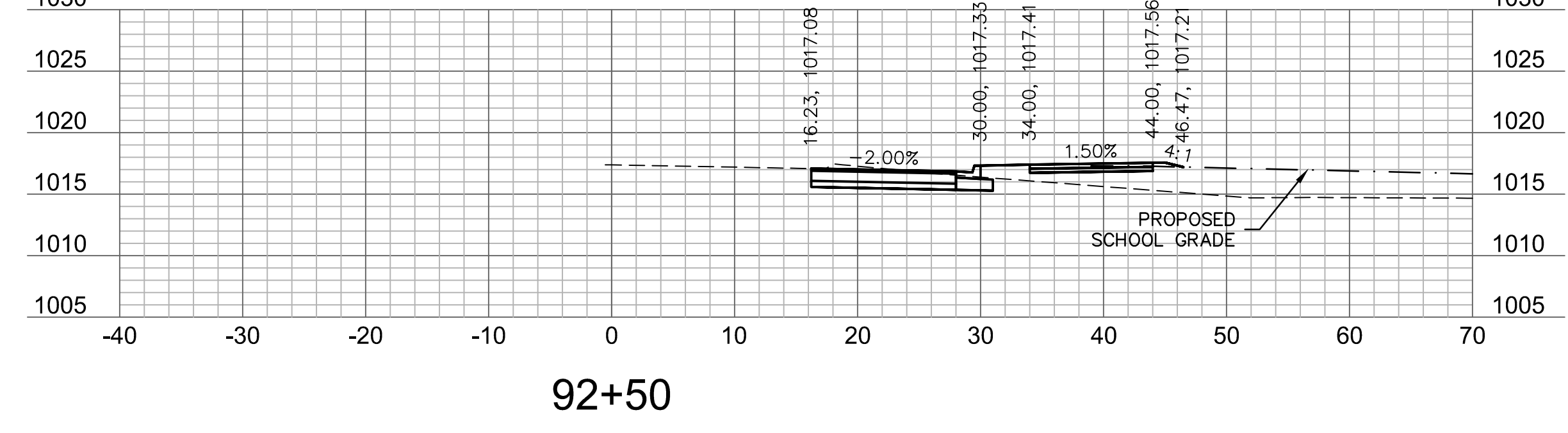
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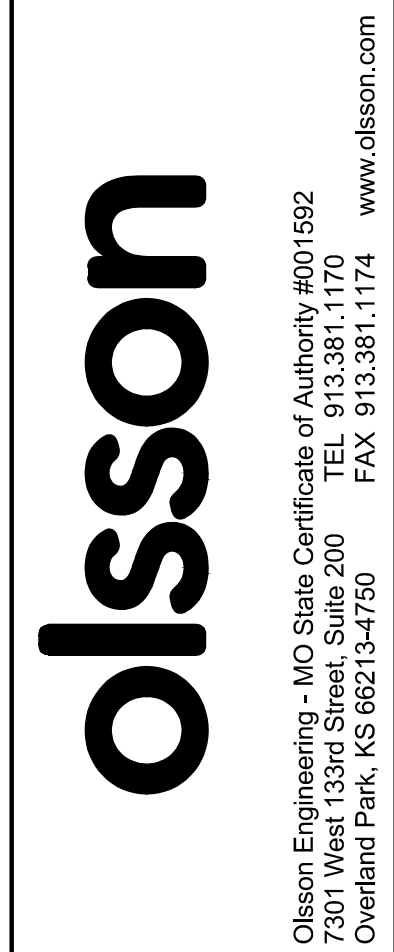
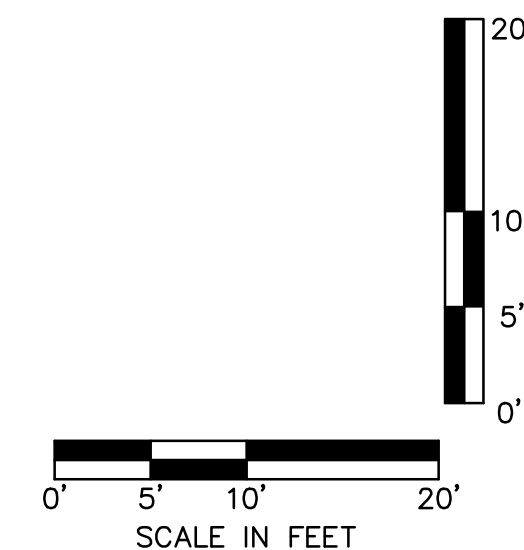
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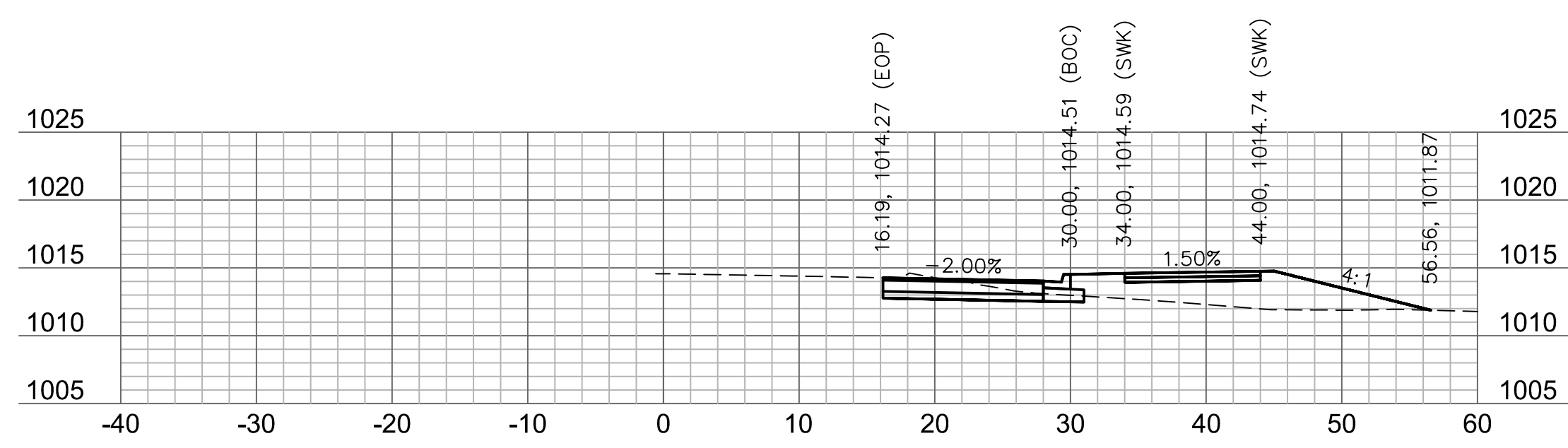
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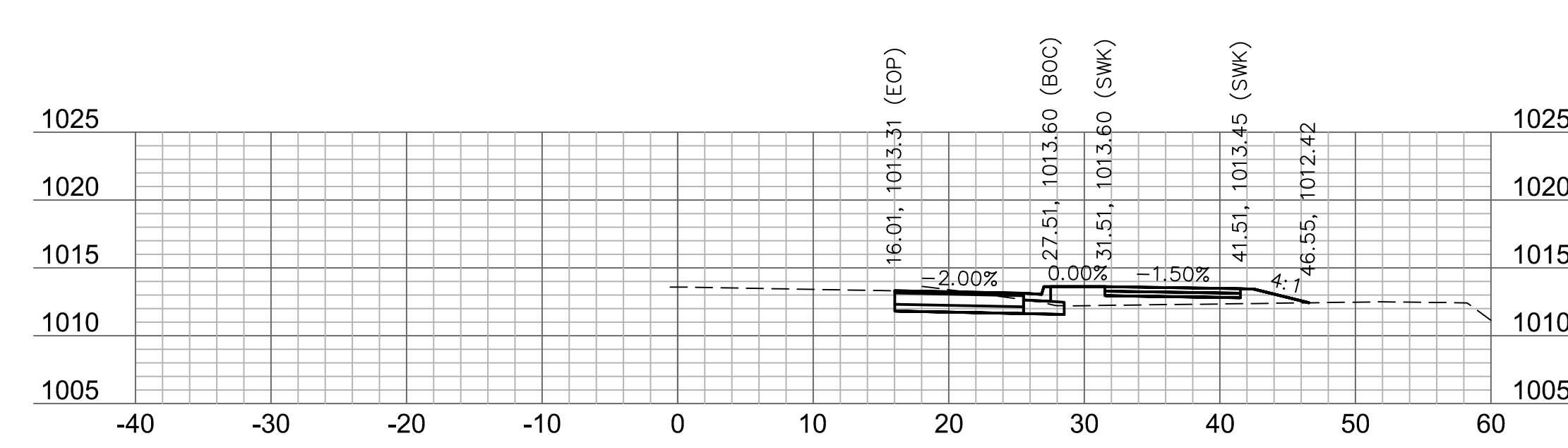
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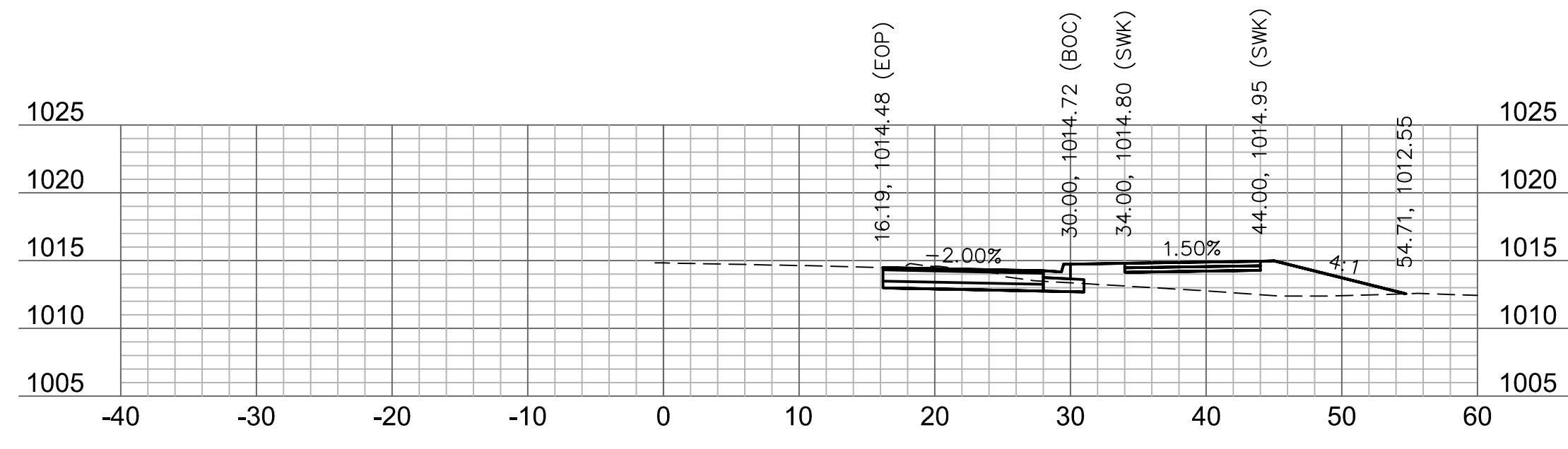
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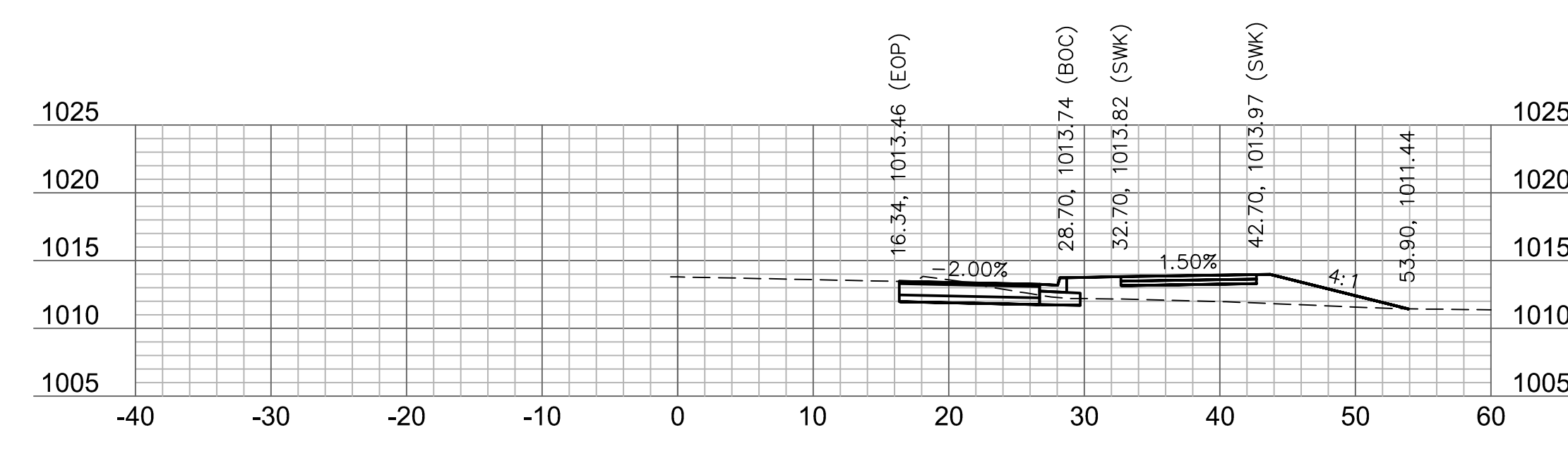
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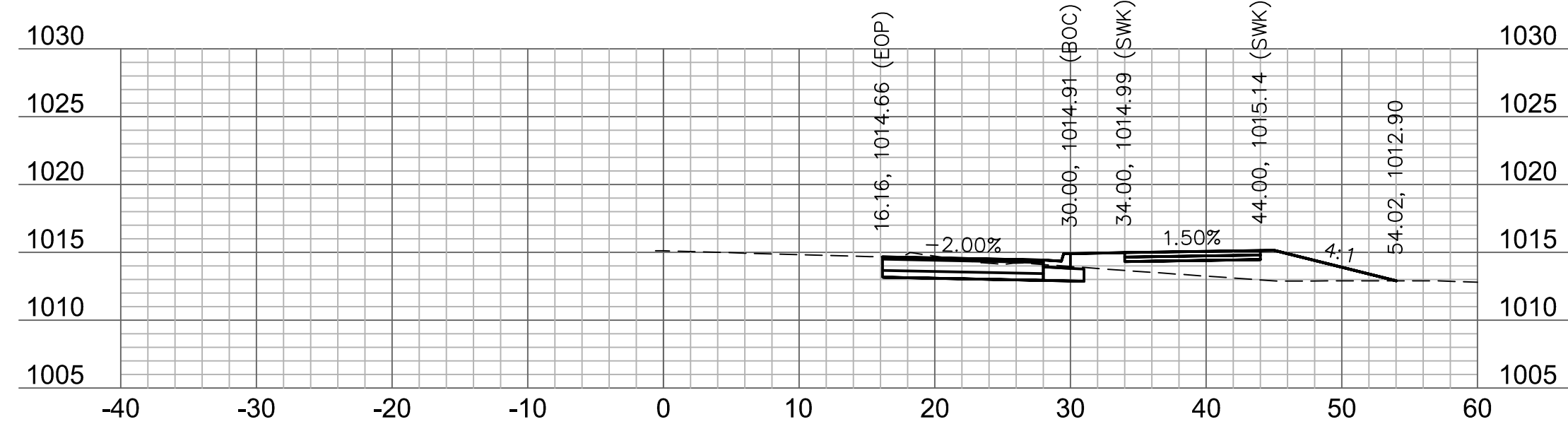
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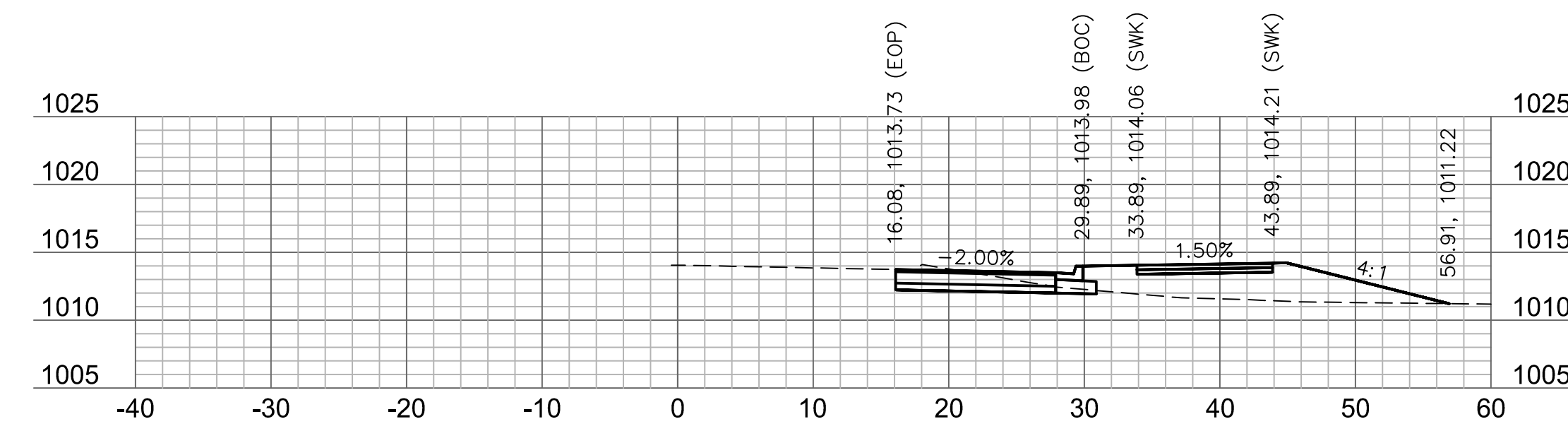
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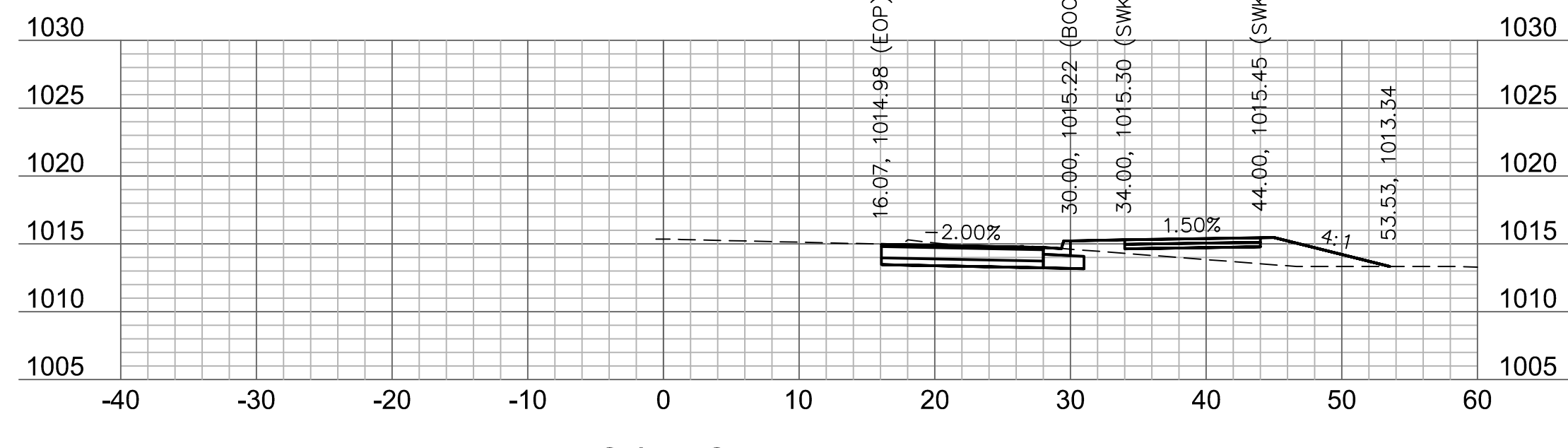
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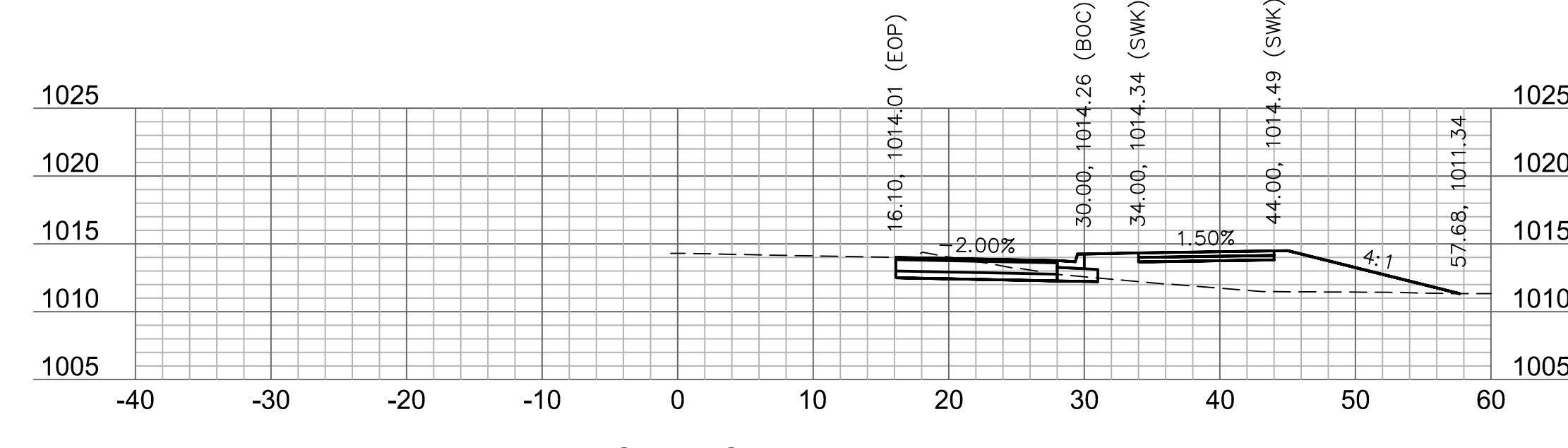
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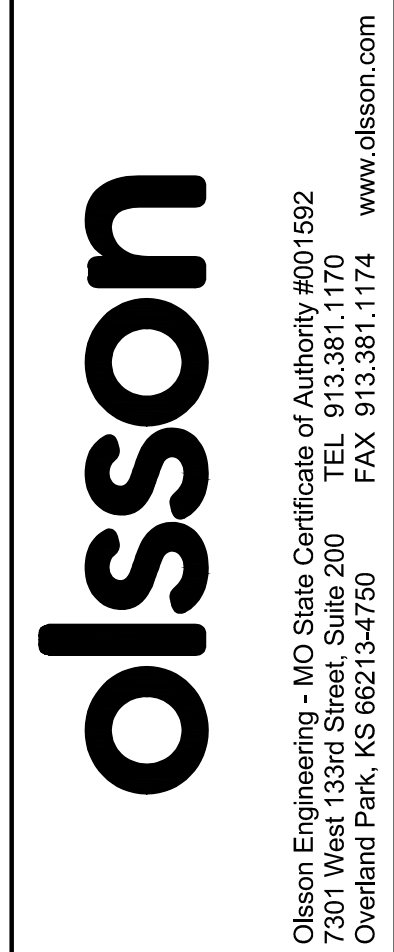
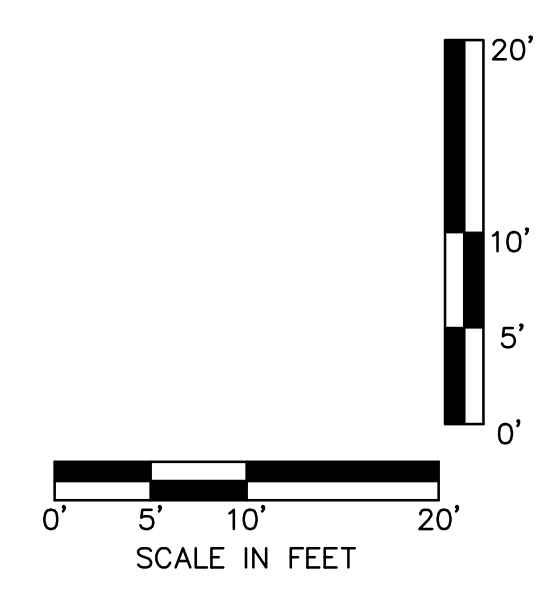
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94+50



95+50



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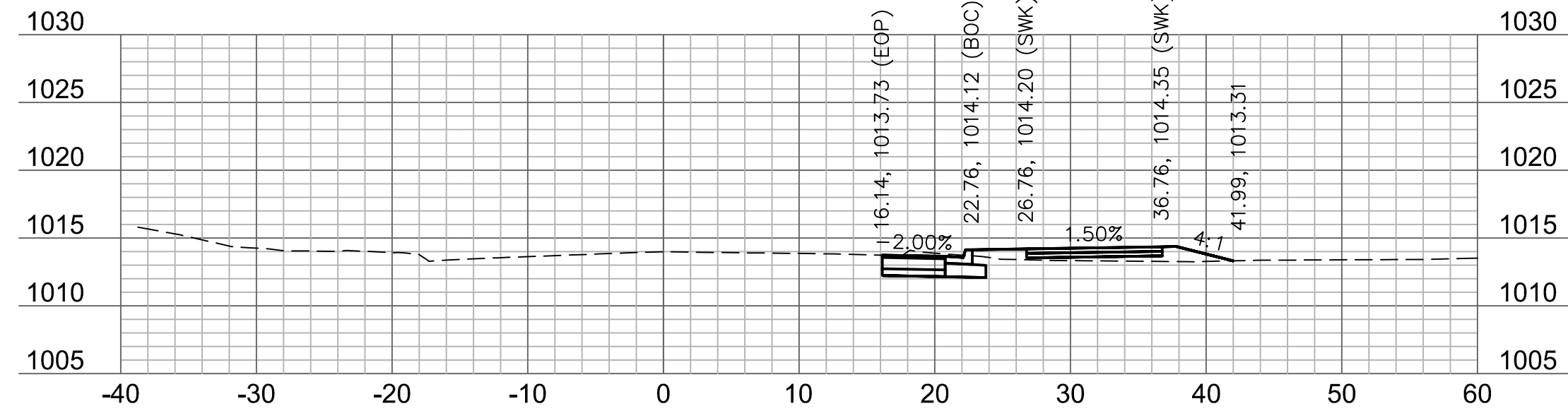
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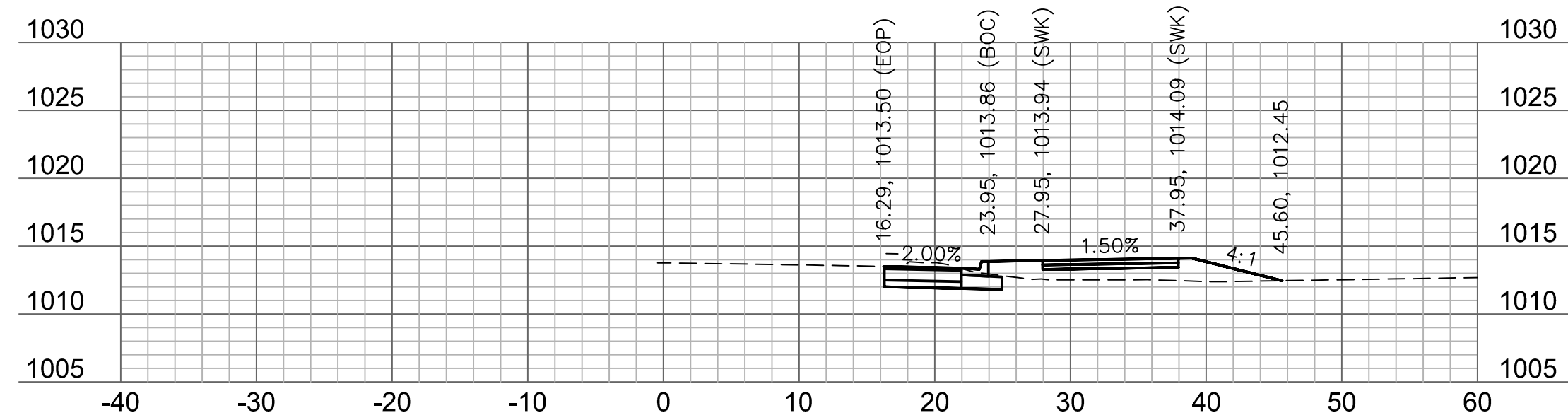
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 DATE: 2021-02-01

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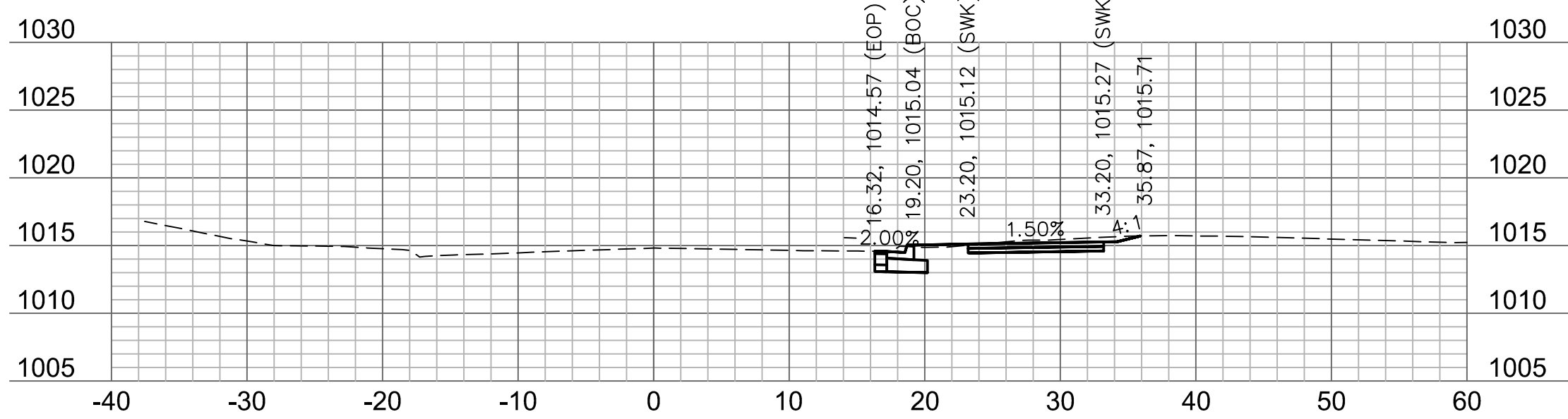
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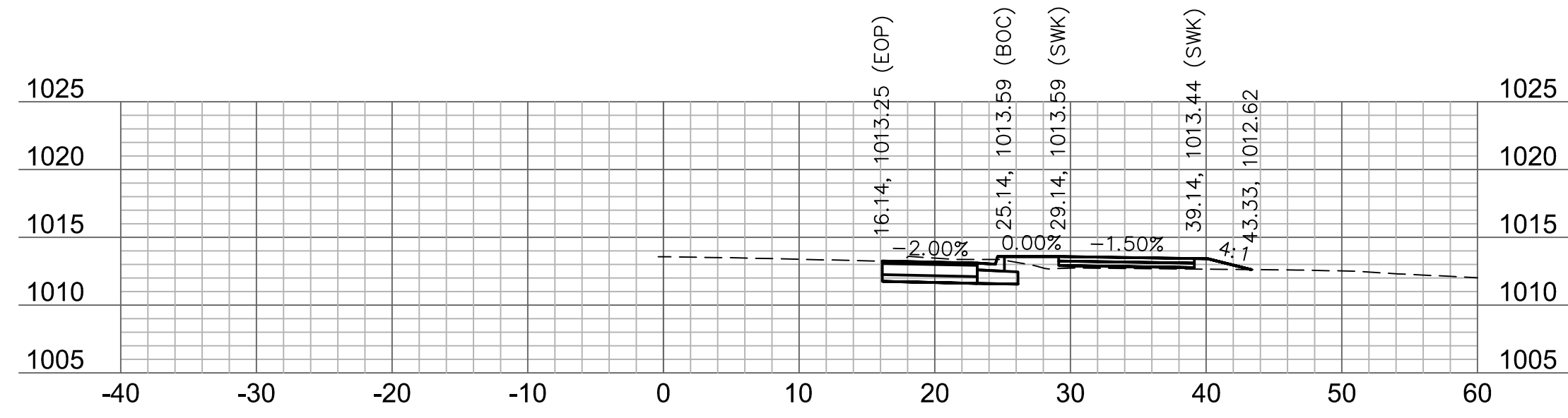
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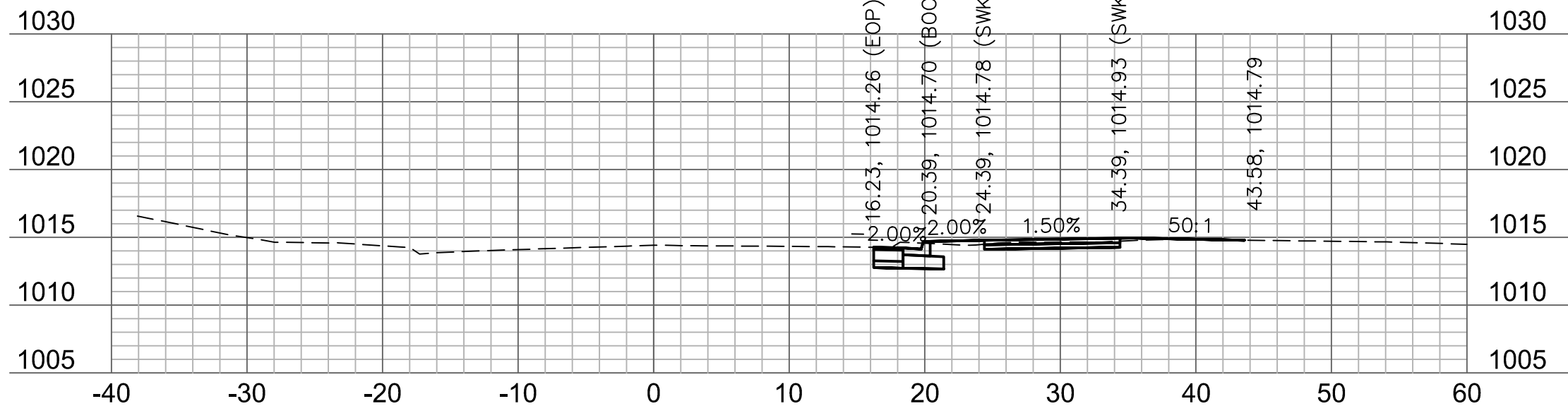
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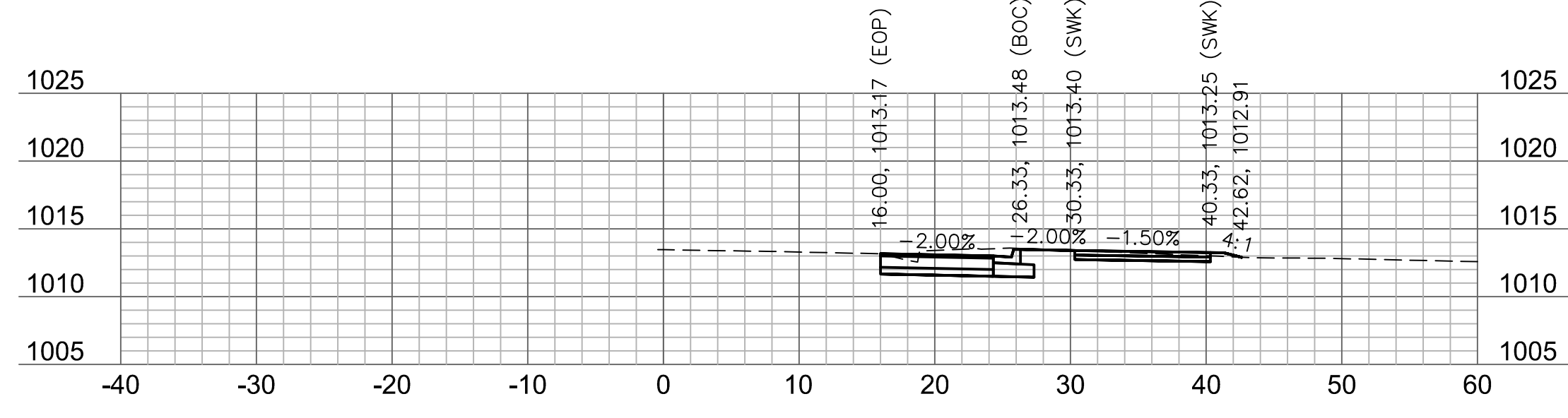
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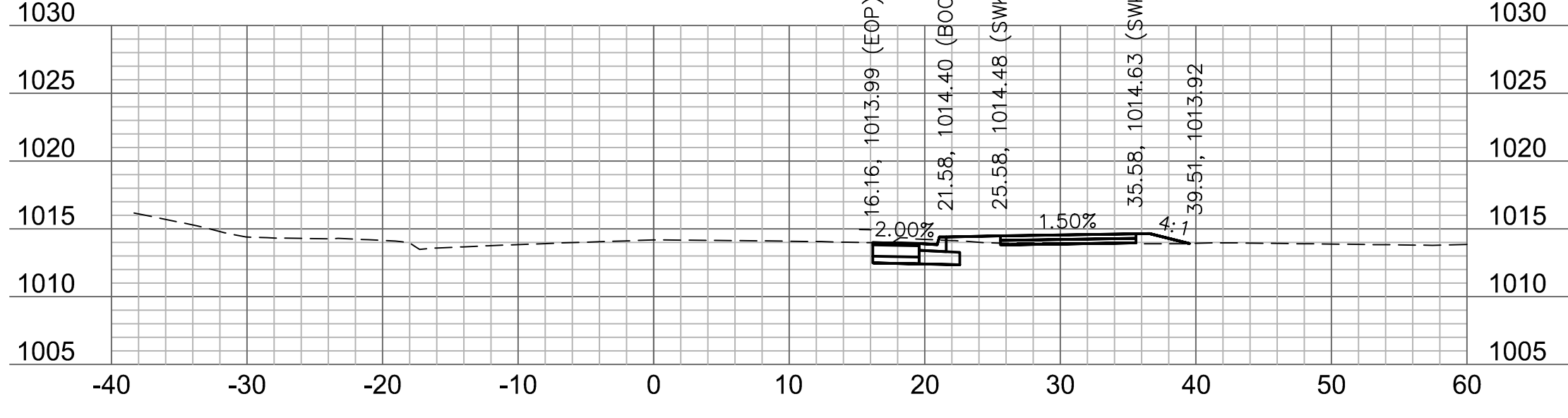
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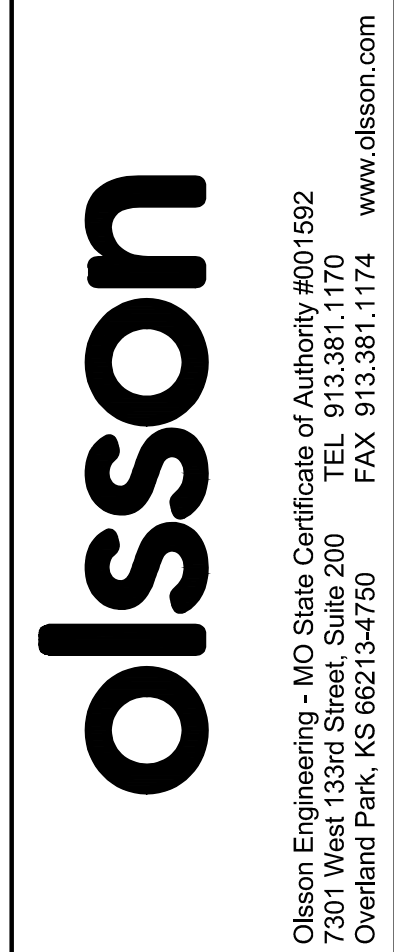
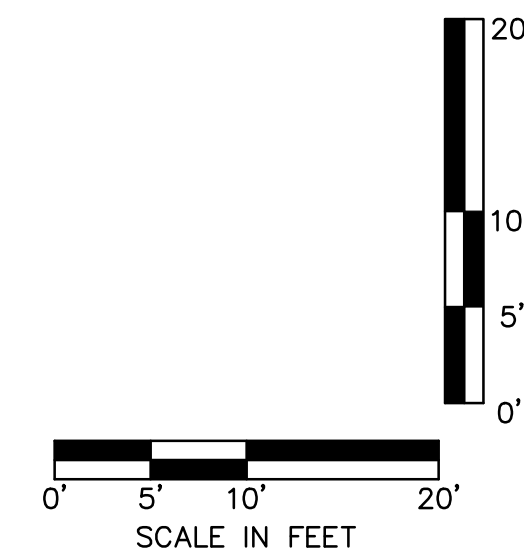
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97+50



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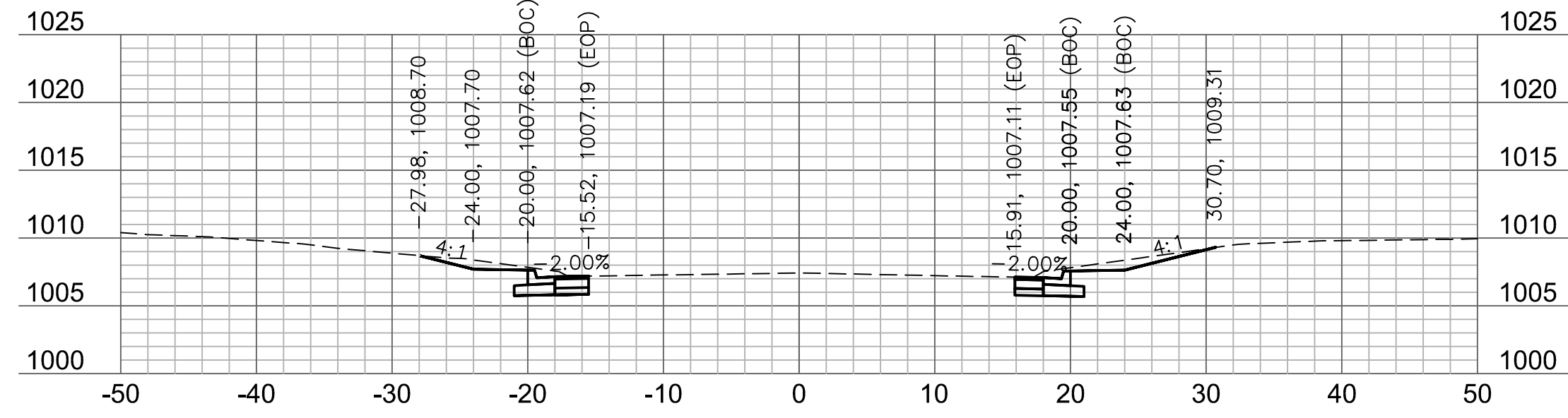
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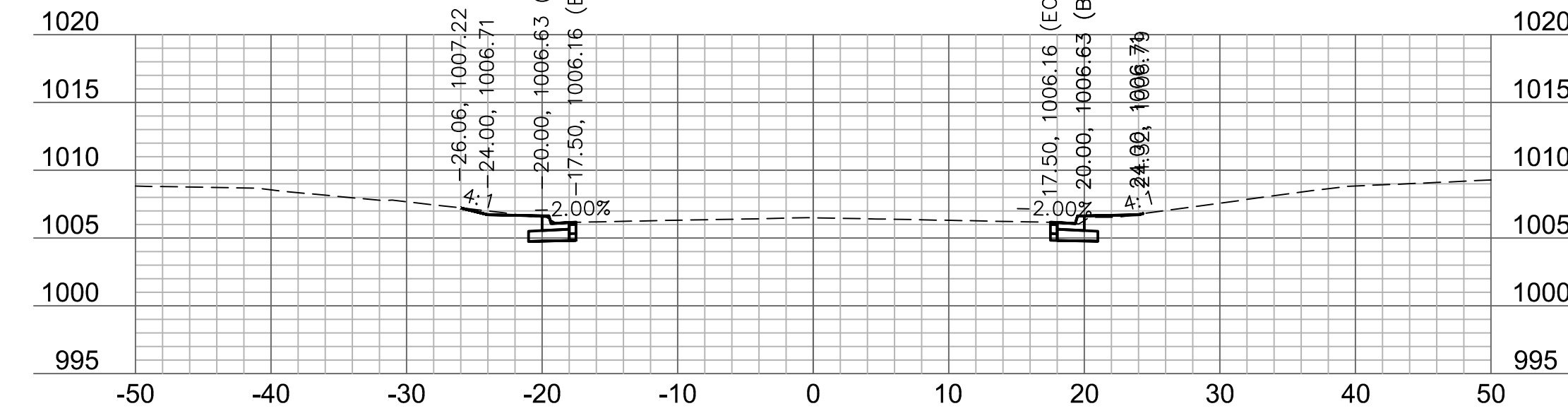
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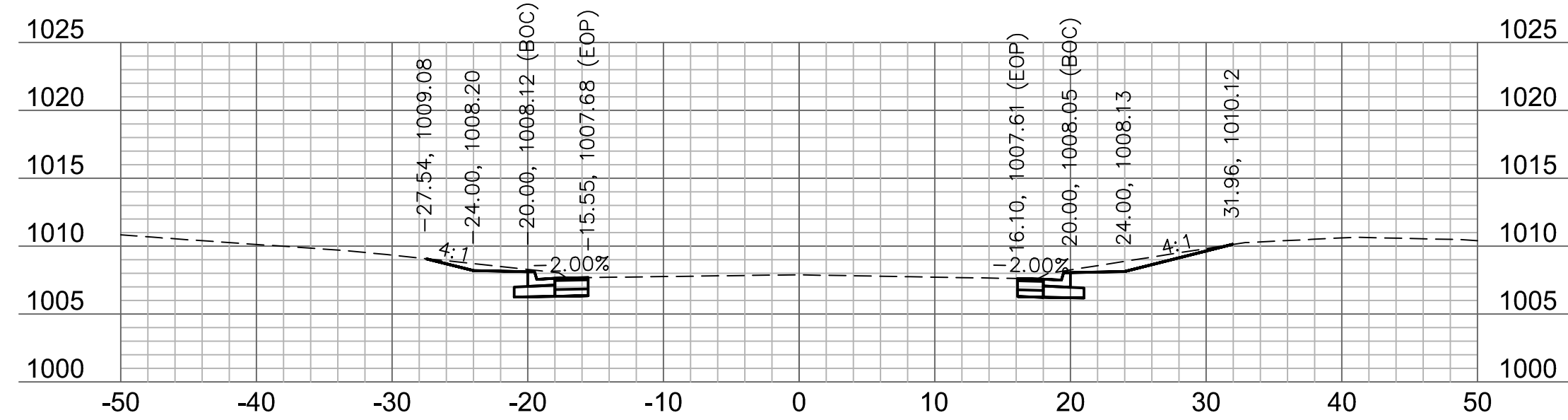
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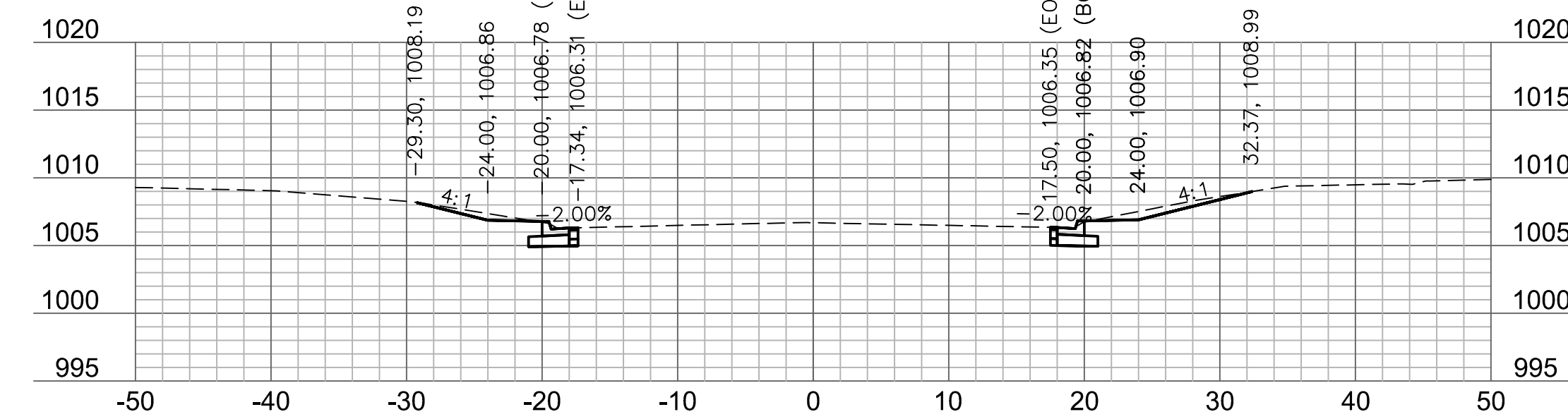
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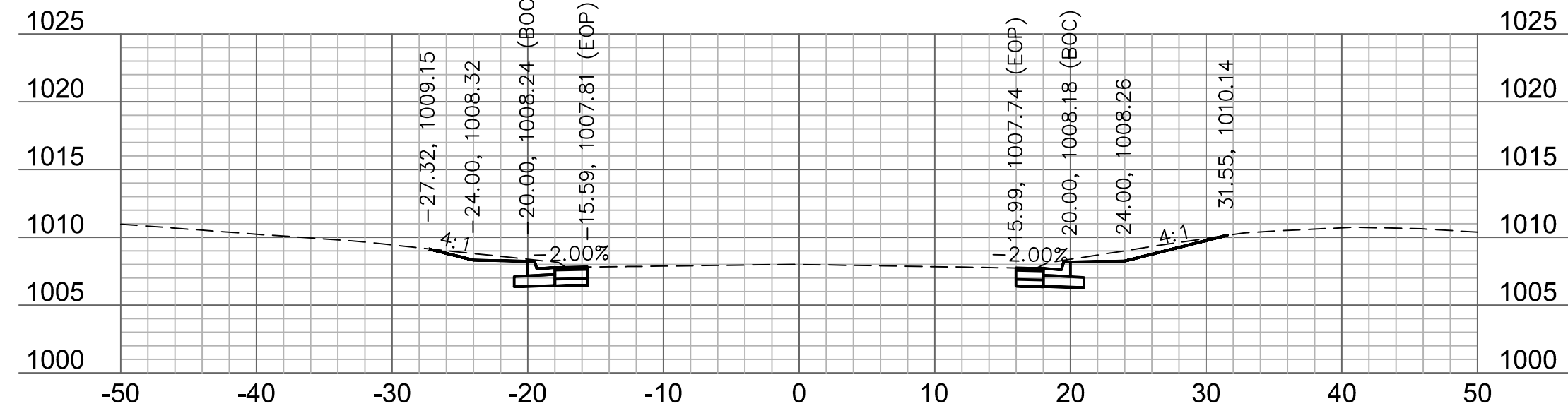
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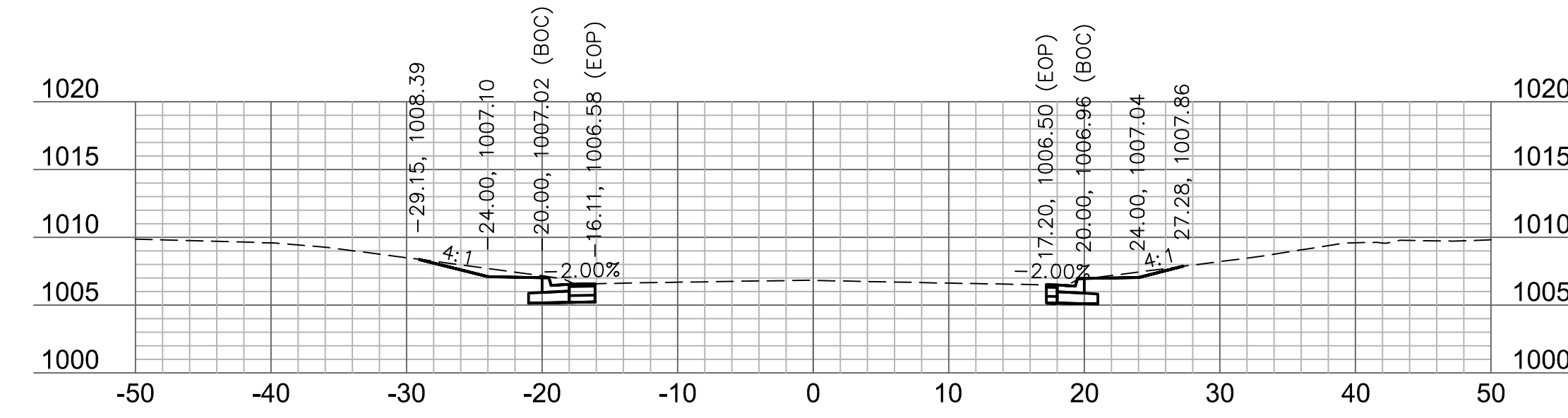
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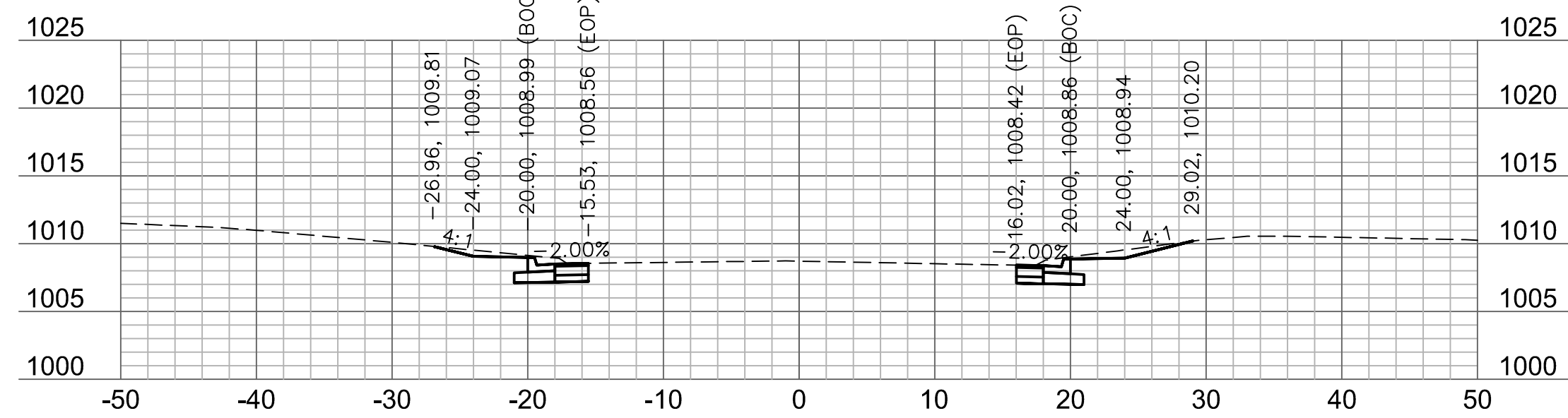
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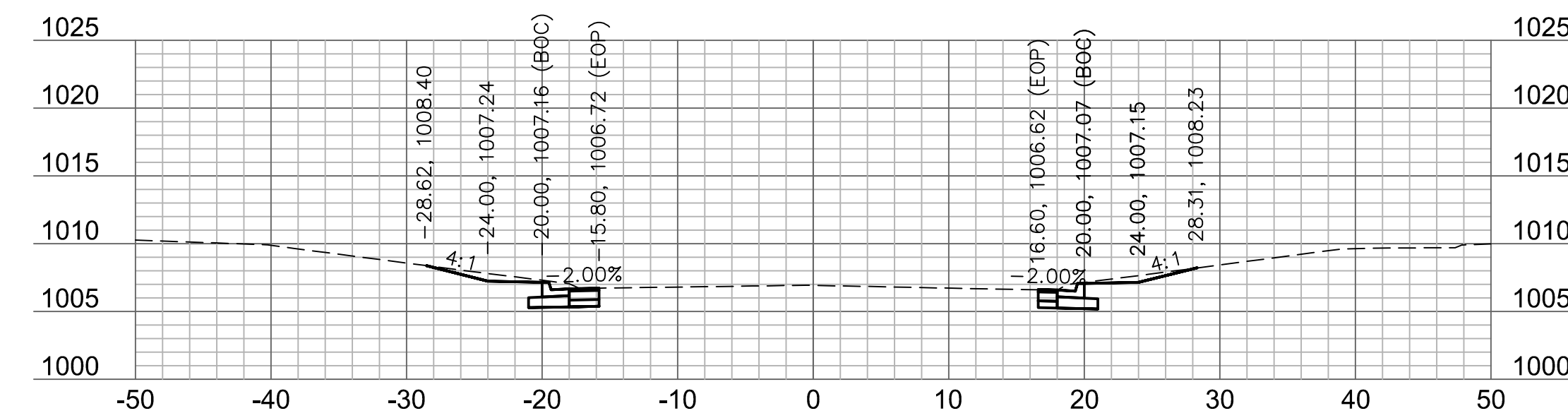
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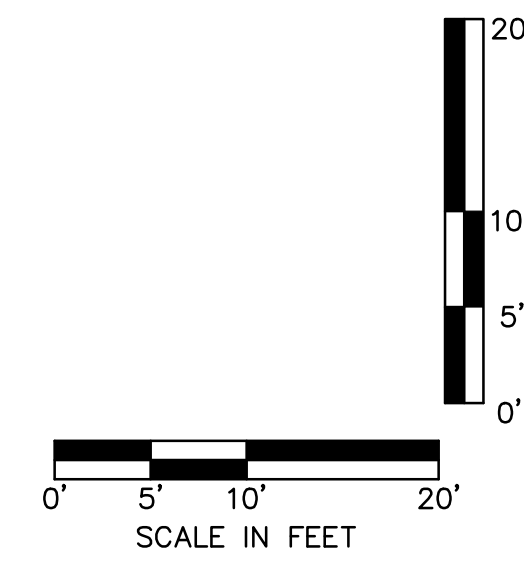
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201+00



201+75



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