CONNECT SHAWNEE

CITY OF SHAWNEE
JOHNSON COUNTY, KANSAS

KDOT PROJECT NO. 46 TE-0427-01

CITY OF SHAWNEE PROJECT NO. 3412

LEGEND

- TREE
- SIGN
- WATER MANHOLE
- WATER VALVE
- FIRE HYDRANT
- ELECTRIC PEDESTAL
- PINE TREE
- ELECTRIC MANHOLE
- POWER POLE
- GUY ANCHOR
- BM 123 BENCH MARK
- CONTROL POINT
- BORE HOLE
- WOODS LINE
- STREET LIGHT POLE
- SIGNAL CONTROL PANEL
- SG PULL BOX
- GENERIC MANHOLE
- SD STORM DRAIN MAN HOLE
- SS SANITARY SEWER MANHOLE
- CORRUGATED METAL PIPE (CMP)
- CHAIN LINK FENCE
- UNDERGROUND FIBER OPTIC
- UNDERGROUND GAS LINE
- REINFORCED CONC. PIPE (RCP)
- OVERHEAD ELECTRIC
- REMOVE TREE
- (R) REMOVAL ITEM
- R.O.W.

ABBREVIATIONS

CE = CONSTRUCTION EASEMENT
D.N.D = DO NOT DISTURB
FES = FLARED END SECTION
HPT = HIGH POINT
IE = INGRESS/EGRESS EASEMENT
LIP = LEAVE IN PLACE
LPT = LOW POINT
PGL = PROFILE GRADE LINE
(R) = REMOVE
SDE = STORM DRAINAGE EASEMENT
SS = SANITARY SEWER
SP = SPRINKLER SYSTEM
S.L. = SLOPE LIMITS
TE = TRAIL EASEMENT
UIP = USE IN PLACE
C.A.F = CORRECTION ADJUSTMENT FACTOR

UTILITY NOTES:

UTILITIES SHOWN MEET FHWA SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL B. UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL FIELD LOCATIONS OF UNDERGROUND UTILITIES, CALL 1-800-344-7233. LAW REQUIRES 48 HOURS NOTICE.

SOUTHERN STAR
MIKE DEGRAEVE
8195 COLE PARKWAY
SHAWNEE, KS 66227

WATERONE
JAN HARDIE
10747 RENNER BLVD.
LENEXA, KS 66219

WESTAR
TRAVIS SHOCKEY
23505 W. 86TH ST.
SHAWNEE, KS 66227

CITY OF SHAWNEE STREET LIGHTS
CHRIS PORRAS
11110 JOHNSON DRIVE
SHAWNEE KS 66203
913-742-6980

GOOGLE FIBER
CRAIG YOUNG
4049 PENNSYLVANIA AVE., SUITE 300
KANSAS CITY, MO 64111

AT&T
RANDY GASKINS
500 E 8TH STREET
KANSAS CITY, MO 64106

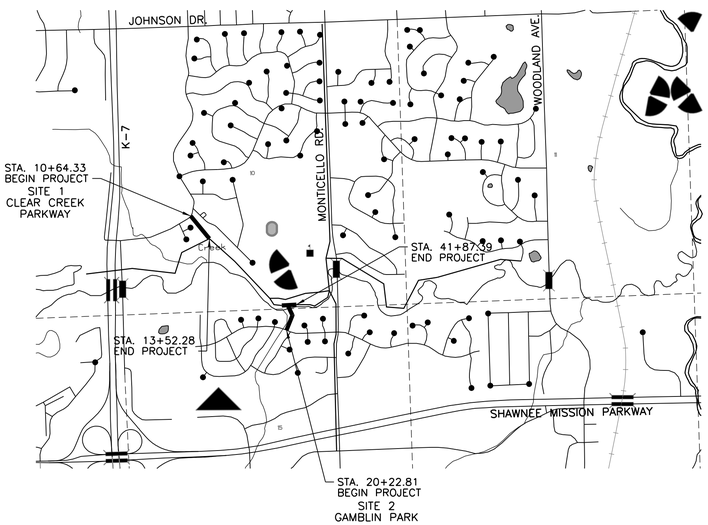
JOCO UNIFIED WASTEWATER DISTRICTS
MATT MATTHEW
4800 NALL AVE.
MISSION, KS 66202

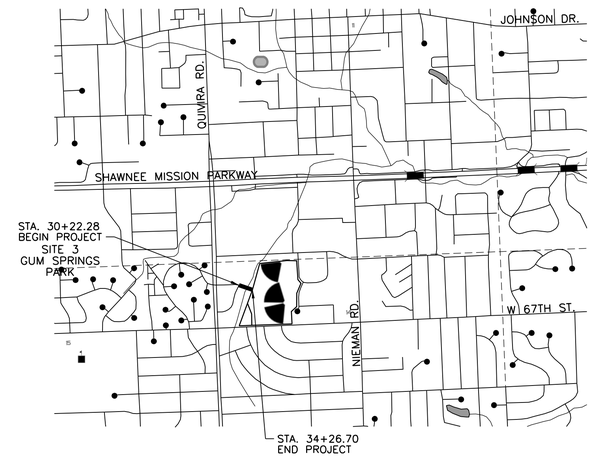
EVEREST (SUREWEST)
MELISSA STRINGER
9701 LACKMAN ROAD
LENEXA, KS 66219

TIME WARNER CABLE
RON FRANK
8221 W. 119TH
OVERLAND PARK, KS 66213

KANSAS CITY POWER & LIGHT
JOHN WIENSTROER
16215 W. 108TH STREET
LENEXA, KS 66219

KANSAS GAS SERVICE
CHRIS COLLINS
11401 W. 89TH STREET
OVERLAND PARK, KS 66214





LOCATION MAP
NO SCALE

N

LENGTH OF PROJECT: 0.23 MILES

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WORK TYPE

PATH
BRIDGE

DESIGN INFORMATION

SHARED USE PATH
DESIGN SPEED = 20 MPH

ROADWAY WILL REMAIN OPEN FOR TRAFFIC DURING CONSTRUCTION. SIDEWALKS AND PATHS WILL BE CLOSED FOR A BRIEF DURATION DURING CONSTRUCTION.

Good Starts Here.
SHAWNEE
KANSAS

JOHN W. ZIMMERMANN, P.E. DATE

PREPARED BY

TranSystems

PLANS APPROVED BY:

DOUG WESSELSCHMIDT, P.E. DATE
CITY ENGINEER

TranSystems
2400 PERSHING ROAD
SUITE 400
KANSAS CITY, MO 64108
PHONE: (816) 329-8600

CONSULTANTS:

CONNECT SHAWNEE
SHAWNEE, KANSAS

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: P101150313
SCALE: NO SCALE
DATE: 4/26/2016
DESIGNED BY: KMB
DRAWN BY: KMB
CHECKED BY: JWZ

SHEET TITLE:
COVER SHEET

SHEET NO.
1
SHEET 1 OF 27

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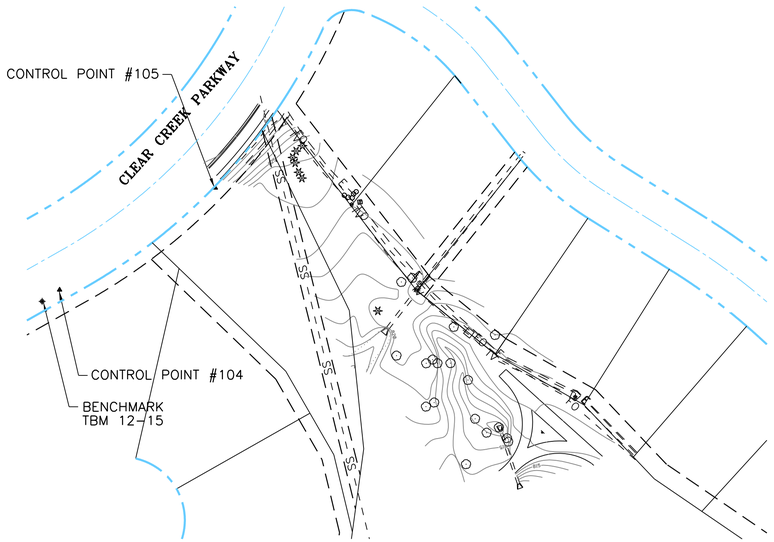
4/26/2016



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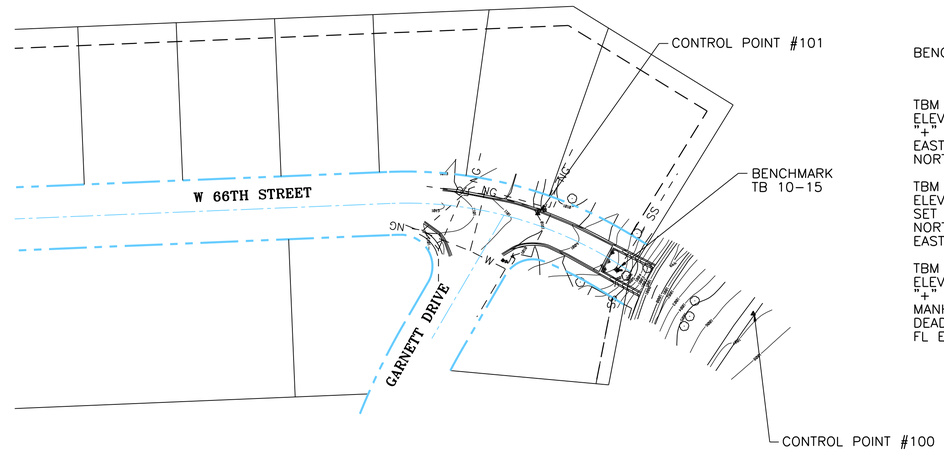

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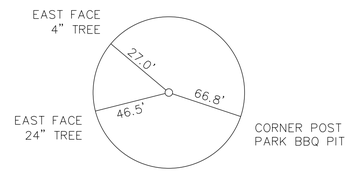
BENCHMARKS

TBM 12-15 (PT. 3357)
ELEVATION 827.65'
"+" CUT SE CORNER CURB INLET
EAST SIDE CLEAR CREEK PKWY, 150' ±
NORTH OF ROBERTS DRIVE

TBM 11-15 (PT. 3160)
ELEVATION 815.72'
SET SQUARE CUT NE CORNER CURB INLET
NORTH SIDE OF W. 64TH ST., 100' ±
EAST OF CHOTEAU STREET

TBM 10-15 (PT. 1174)
ELEVATION 1007.98'
"+" CUT SET IN WEST TOP RIM
MANHOLE IN DRAINAGE ISLAND @
DEAD END OF W. 66TH ST.
FL ELEVATION: 988.38' (CENTER OF MH)

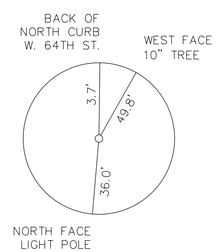
CONTROL POINT #100
(HORIZ. TIES)



SET MAG NAIL & SHINER IN ASPHALT TRAIL, SOUTHEAST OF DEAD END W. 66TH ST., EAST OF GARNETT DR.

N = 263077.5623
E = 2243908.8750

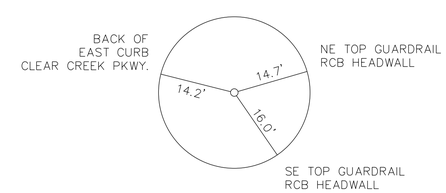
CONTROL POINT #102
(HORIZ. TIES)



SET MAG NAIL & SHINER IN PAVEMENT, NORTH SIDE OF W. 64TH ST.

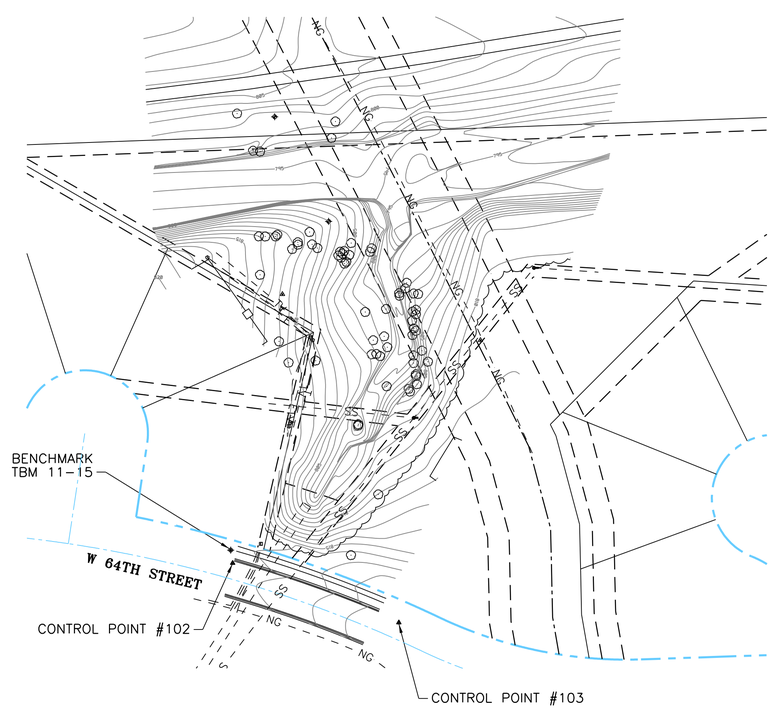
N = 263347.6601
E = 2209480.624

CONTROL POINT #104
(HORIZ. TIES)



SET 80d NAIL @ EAST SIDE
CLEAR CREEK PARKWAY

N = 265398.5273
E = 2207540.7590



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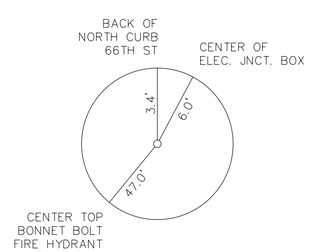
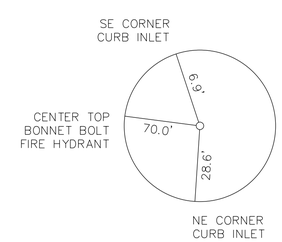


SET MAG NAIL & SHINER IN PAVEMENT, NORTH SIDE OF W. 66TH ST.

N = 263157.0156
E = 2243738.2320

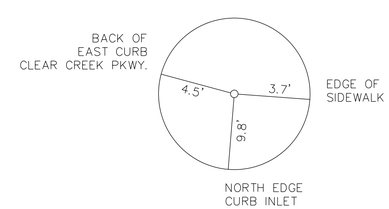
CONTROL POINT #103
(HORIZ. TIES)



SET MAG NAIL & SHINER IN PAVEMENT, NORTH SIDE OF W. 64TH ST.

N = 263394.7745
E = 2209349.002

CONTROL POINT #105
(HORIZ. TIES)



SET 80d NAIL @ EAST SIDE
CLEAR CREEK PARKWAY

N = 265317.7559
E = 2207417.4190

TranSystems
2400 PERSHING ROAD
SUITE 400
KANSAS CITY, MO 64108
PHONE: (816) 329-8600

CONSULTANTS:

CONNECT SHAWNEE

SHAWNEE, KANSAS

REVISIONS:			
MARK	DATE	DESCRIPTION	

PROJ NO: P101150313
SCALE: 1" = 60'
DATE: 4/26/2016
DESIGNED BY: KMB
DRAWN BY: KMB
CHECKED BY: JWZ

SHEET TITLE:
COORDINATE REFERENCE POINTS

SHEET NO.
2

SHEET 2 OF 27

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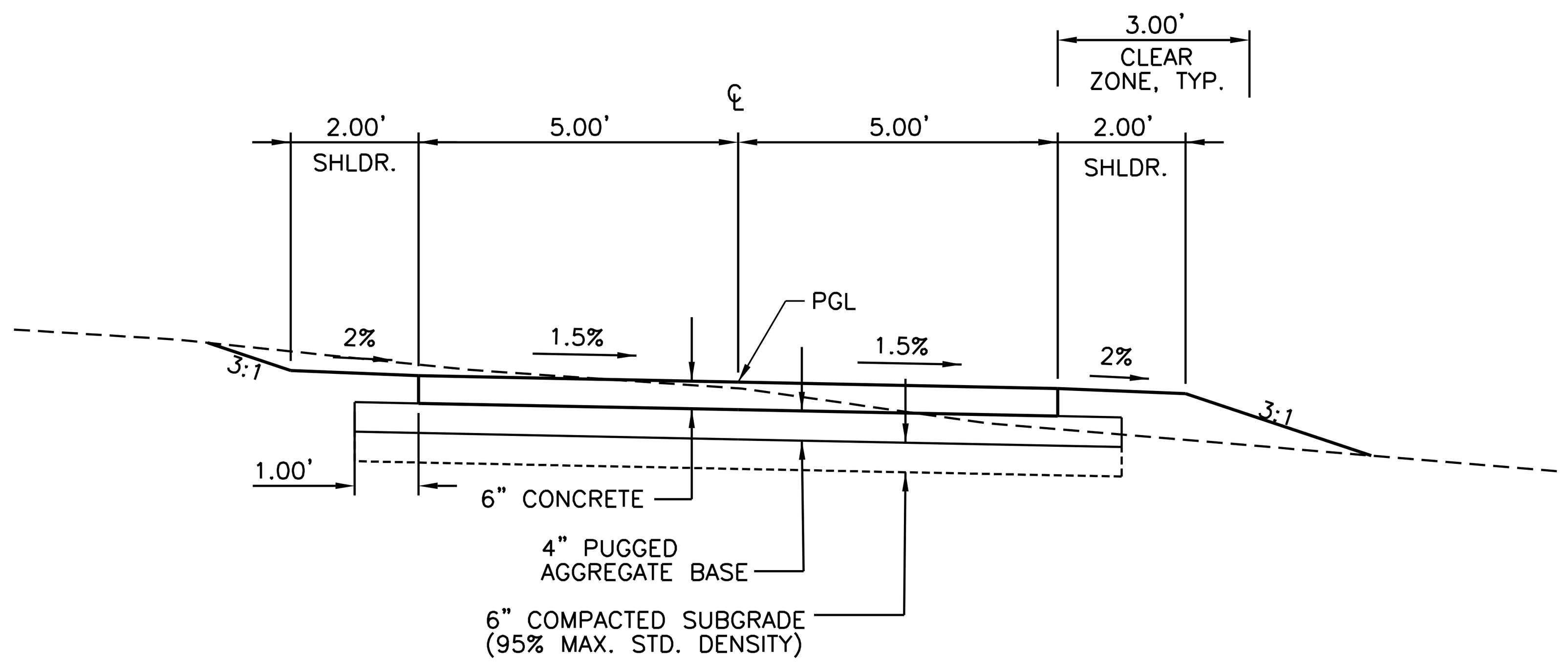
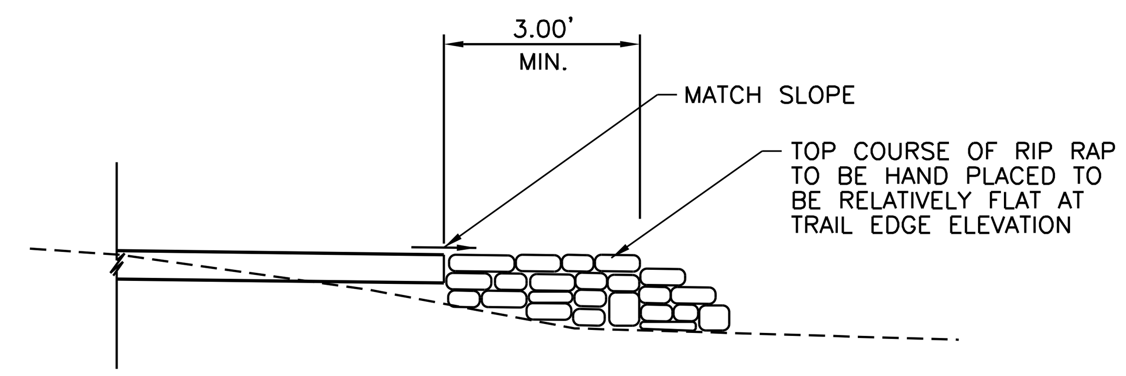


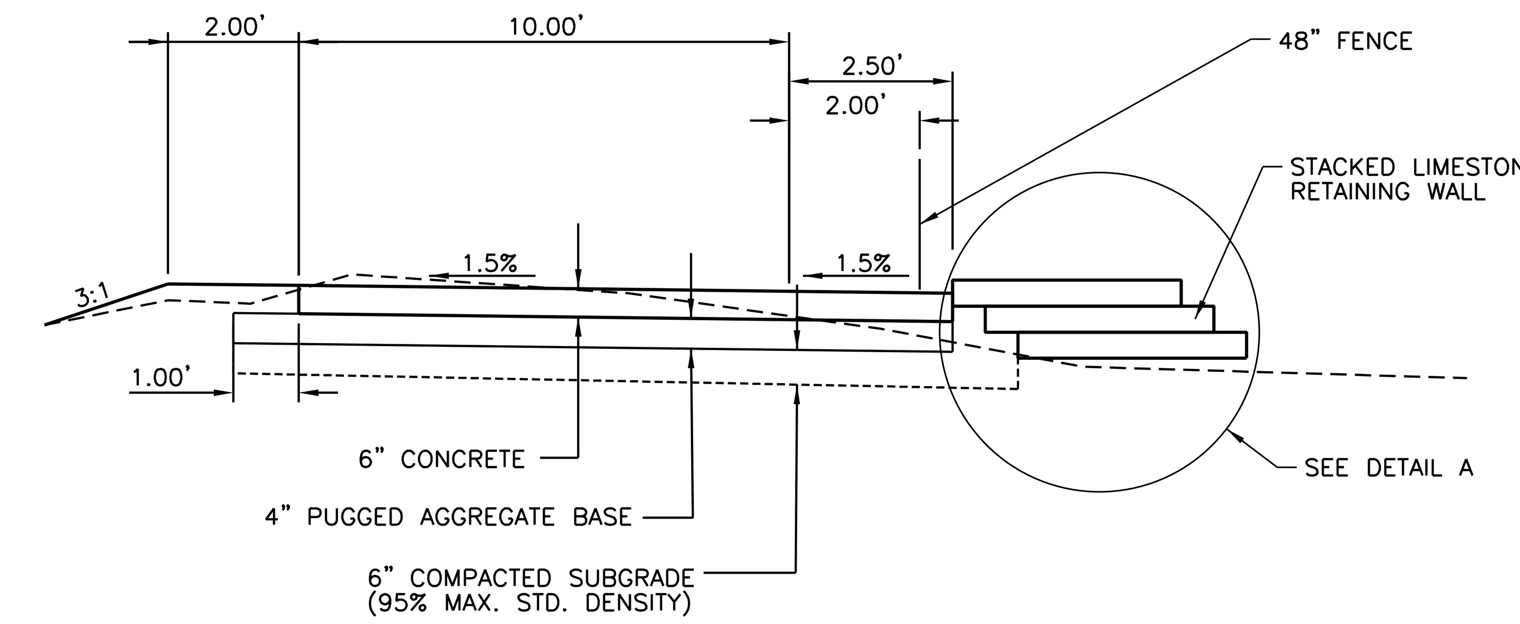
TRAIL TYPICAL SECTION

STA. 10+78.24 TO STA. 13+52.28
STA. 20+32.68 TO STA. 24+80.03(EXCEPT BRIDGE)
STA. 33+10.87 TO STA. 34+26.70 (EXCEPT BRIDGE)
STA. 40+00.00 TO STA. 41+87.39



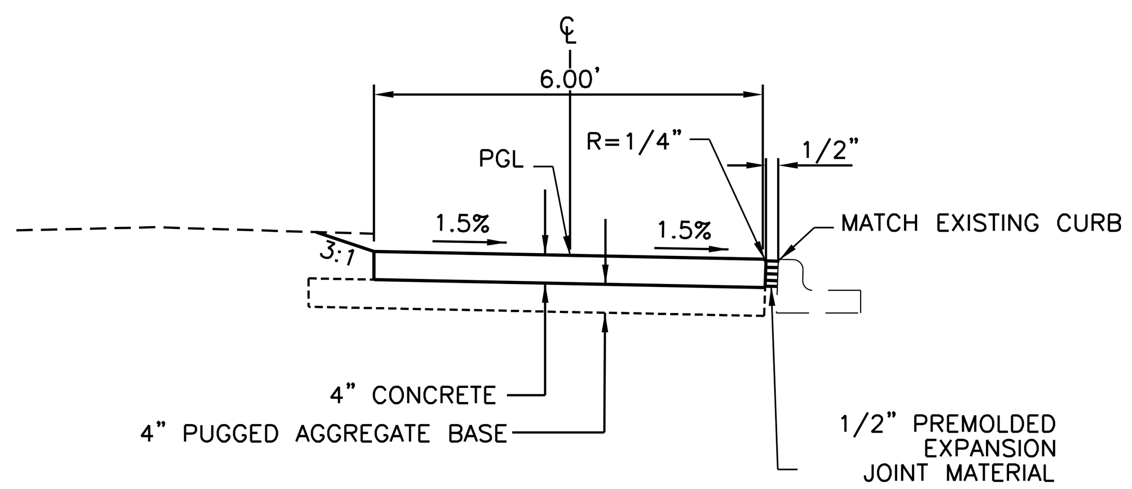
RIP RAP ABUTTING TRAIL DETAIL

STA. 33+10.87 TO STA. 33+34.63



RETAINING WALL TYPICAL SECTION

STA. 10+85.00 TO STA. 11+75.00



SIDEWALK TYPICAL SECTION

SEE PLANS

STA. 30+22.28 TO STA. 31+63.67

TRAIL NOTES:

1. ALL CONCRETE JOINTS SHALL BE AT RIGHT ANGLES TO THE ALIGNMENT OF THE TRAIL AND MEET THE REQUIREMENTS INDICATED BELOW. THE CONTRACTOR SHALL LAYOUT THE JOINTS FOR APPROVAL BY THE ENGINEER PRIOR TO SAW CUTTING. CONTRACTION JOINTS SHALL BE SAW CUT IN CONCRETE TO CREATE SQUARE PANELS, MATCHING THE WIDTH OF THE TRAIL. CONTRACTION JOINTS SHALL BE ONE-EIGHTH (1/8) INCH WIDE BY ONE (1) INCH DEEP. TOOLED JOINTS ARE NOT ALLOWED.

2. ONE-HALF (1/2) INCH THICK EXPANSION JOINTS SHALL BE PLACED WHERE THE TRAIL ABUTS OTHER STRUCTURES AND AT 250 FOOT INTERVALS ALONG THE TRAIL. EXPANSION JOINTS SPACING MAY BE INCREASED TO 300 FOOT INTERVALS FOR MACHINE LAID TRAILS IF 3/4" JOINT FILLER IS USED. EXPANSION JOINTS SHALL BE FORMED BY PREFORMED JOINT FILLER, EXTENDING THE FULL DEPTH OF THE SLAB, AND SECURED SO THAT THEY ARE NOT MOVED BY DEPOSITING AND COMPACTION OF CONCRETE.

3. CONCRETE FINISHING: MEDIUM TRANSVERSE BROOM FINISH WITH NO EDGE TOOLING VISIBLE AFTER BROOM FINISH. SURFACE TO BE FREE OF DEFECTS, DISCOLORATION, AND DAMAGE FROM VANDALISM.

4. CROSS-SLOPES CONSTRUCTED STEEPER THAN 2% ARE NOT COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT AND MUST BE MADE COMPLIANT AT THE CONTRACTOR'S EXPENSE. CONTRACTOR MUST REPLACE THE NONCOMPLIANT SECTIONS AT THE NEAREST JOINTS.

5. ALL CONCRETE SHALL BE "KCMMB4K" WITH HIGH DENSITY POLYETHYLENE FIBERS.

CLEAR CREEK PARKWAY ALIGNMENT

CURVE	P.C. STA.	NORTH.	EAST.	DELTA	FOR. BEAR.	TAN.	RAD.
CCPKWY-1	10+90.89	265,433.18	2,207,588.33	22° 30' 31.85" RT	S 43° 24' 05.23" E	23.88'	120.00'
CCPKWY-2	11+82.39	265,361.59	2,207,644.12	18° 46' 54.70" LT	S 41° 32' 16.65" E	24.81'	150.00'
CCPKWY-3	12+99.46	265,282.15	2,207,729.29	11° 08' 24.37" LT	S 56° 29' 56.19" E	11.70'	120.00'
CCPKWY-4	13+22.79	265,269.30	2,207,748.72	14° 04' 53.65" RT	S 55° 01' 41.55" E	14.82'	120.00'

GAMBLIN PARK ALIGNMENT

CURVE	P.C. STA.	NORTH.	EAST.	DELTA	FOR. BEAR.	TAN.	RAD.
GAMLBINPARK-1	20+34.52	263,386.55	2,209,443.25	17° 32' 46.28" RT	N 29° 37' 40.35" E	18.52'	120.00'
GAMLBINPARK-2	21+45.23	263,476.33	2,209,507.29	77° 46' 54.74" LT	N 0° 29' 23.88" W	48.40'	60.00'
GAMLBINPARK-3	22+76.79	263,590.40	2,209,474.86	12° 44' 16.30" RT	N 33° 00' 43.10" W	22.32'	200.00'
GAMLBINPARK-4	24+39.90	263,733.66	2,209,397.48	18° 34' 58.75" RT	N 17° 21' 05.57" W	19.63'	120.00'

GAMBLIN TIE-IN ALIGNMENT

CURVE	P.C. STA.	NORTH.	EAST.	DELTA	FOR. BEAR.	TAN.	RAD.
GAMBLINTIEIN-1	40+00.00	263,766.14	2,209,291.51	18° 28' 49.52" LT	N 73° 45' 38.89" E	16.27'	100.00'
GAMBLINTIEIN-2	40+32.25	263,775.12	2,209,322.34	35° 29' 13.14" RT	N 82° 15' 50.70" E	64.00'	200.00'
GAMBLINTIEIN-3	41+56.13	263,791.53	2,209,443.13	17° 54' 52.92" LT	S 88° 56' 59.19" E	15.76'	100.00'

GUM SPRINGS PARK SIDEWALK ALIGNMENT

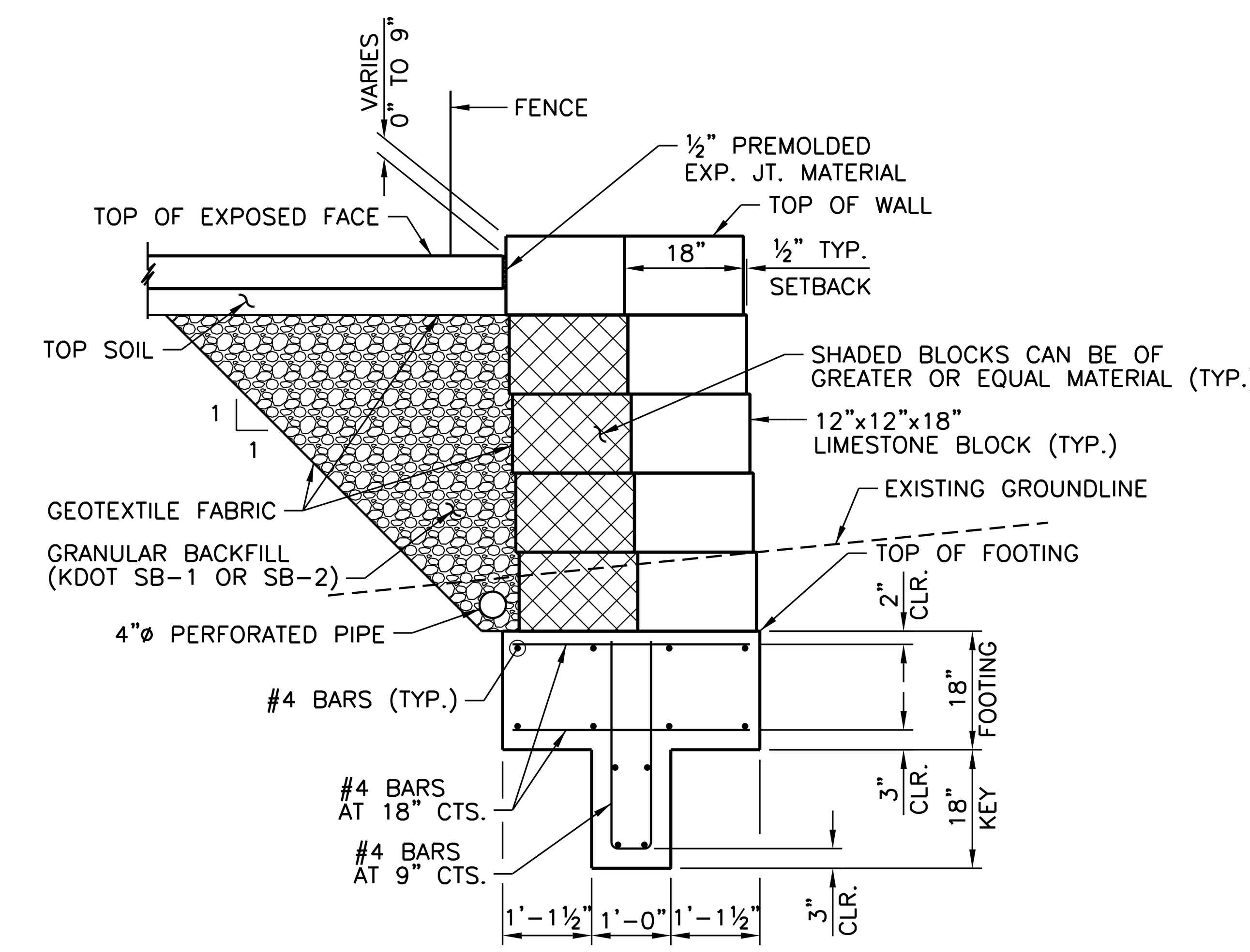
CURVE	P.C. STA.	NORTH.	EAST.	DELTA	FOR. BEAR.	TAN.	RAD.
GUMSPRINGSSW-1	30+49.03	263,173.15	2,243,711.10	16° 09' 27.66" RT	S 70° 48' 42.55" E	35.49'	250.00'
GUMSPRINGSSW-2	31+51.39	263,135.45	2,243,805.79	55° 35' 56.99" RT	S 34° 56' 00.22" E	3.69'	7.00'
GUMSPRINGSSW-3	31+58.18	263,130.10	2,243,809.53	58° 36' 41.85" LT	S 36° 26' 22.65" E	11.23'	20.00'

GUM SPRINGS PARK TRAIL ALIGNMENT

CURVE	P.C. STA.	NORTH.	EAST.	DELTA	FOR. BEAR.	TAN.	RAD.
GUMSPRINGST-1	33+19.60	263,121.38	2,243,806.22	3° 47' 15.58" LT	S 63° 51' 05.78" E	4.13'	125.00'
GUMSPRINGST-2	34+02.30	263,087.16	2,243,881.50	10° 37' 46.25" RT	S 60° 25' 50.44" E	11.16'	120.00'

GENERAL NOTES

1. "GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES", 2012, AASHTO IS HEREBY INCORPORATED, EXCEPT AS OTHERWISE SHOWN.
2. ALL SIGNAGE TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), LATEST RELEASE AND EDITIONS. POSTS TO BE 1 3/4" SQUARE 14 GAUGE.
3. TRAIL ALIGNMENTS MAY BE ADJUSTED TO MEET FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
4. UTILITIES SHOWN MEET FHWA SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL B. UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL FIELD LOCATIONS OF UNDERGROUND UTILITIES, CALL 1-800-344-7233. LAW REQUIRES 48 HOURS NOTICE. UNDERGROUND UTILITY LOCATIONS SHALL BE DETERMINED IN THE FIELD BY EACH UTILITY COMPANY AT THE REQUEST OF THE CONTRACTOR WHERE NECESSARY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO AS CERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT AND THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS AS NEEDED.
5. ALL NECESSARY UTILITY RELOCATIONS AND SERVICE LINE RECONNECTIONS SHALL BE PERFORMED PRIOR TO OR CONCURRENTLY WITH CONSTRUCTION. CONTRACTOR SHALL BE REQUIRED TO COOPERATE AND SCHEDULE WITH UTILITY COMPANIES TO FACILITATE RELOCATIONS DURING CONSTRUCTION.
6. ALL TREES, SHRUBS, BUSHES, AND BRUSH WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT SHALL BE REMOVED BY THE CONTRACTOR UNLESS SPECIFICALLY INDICATED TO BE SAVED ON THE PLANS. CONTRACTOR SHALL CONDUCT HIS CONSTRUCTION ACTIVITIES TO MINIMIZE THE AMOUNT OF CLEARING AND GRUBBING. LARGE TREES THAT ARE NOT SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DISTURBANCE AND SHALL BE SPARED, BY ADJUSTING THE PROJECT CONSTRUCTION LIMITS DURING CONSTRUCTION OR REMOVED, AS DIRECTED BY THE ENGINEER.
7. TREES AND SHRUBS ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED BY THE CONTRACTOR. DAMAGE OR CUT SURFACE AREAS ON TREES OR SHRUBS SHALL BE PAINTED WITH AN ACCEPTED PRUNING PAINT SPECIALLY FORMULATED FOR HORTICULTURE APPLICATION. ALL TREES AND BRUSH, WHICH MUST BE REMOVED FOR PROPER EXECUTION OF THE WORK, SHALL BE REMOVED BY CONTRACTOR.
8. ALL WORK SHALL BE CONFINED WITHIN THE EASEMENTS AND/OR CONSTRUCTION LIMITS. ANY DISTURBANCE OF EXISTING CONDITIONS OUTSIDE THE GRADING LIMITS SHALL BE REPAIRED PROMPTLY TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE, UNLESS OTHER WRITTEN ARRANGEMENTS HAVE BEEN MADE.
9. ALL DEBRIS AND WASTE SHALL BE REMOVED FROM THE JOB SITE IMMEDIATELY AND DISPOSED OF AT A SITE FURNISHED BY THE CONTRACTOR. NO STOCKPILING ON SITE WILL BE ALLOWED.
10. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS FINISH GRADING IS COMPLETED OR AS OTHERWISE DIRECTED BY THE ENGINEER.
11. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A CLEAN, ORDERLY AND SAFE CONDITION AT ALL TIMES DURING THE COURSE OF THE PROJECT.
12. THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION, AND SHALL KEEP ALL STREETS CLEAN OF MUD AND DEBRIS.
13. GAMBLIN PARK PROJECT IS LOCATED IN THE CLEAR CREEK FEMA REGULATED FLOOD PLAIN.



DETAIL A

1. LIMESTONE BLOCKS TO BE SUPPLIED BY CITY OF SHAWNEE.
2. LIMESTONE BLOCKS TO BE PLACED WITH A STAGGERED VERTICAL SEAM.
3. LIMESTONE BLOCKS TO BE MASONRY MORTAR BONDED. ½" NOMINAL JOINTS, RAKED ½" DEEP. FOOTING CONCRETE (GRADE 3.0), REINFORCING STEEL (GRADE 60).

TranSystems
2400 PERSHING ROAD
SUITE 400
KANSAS CITY, MO 64108
PHONE: (816) 329-8600

CONSULTANTS:

CONNECT SHAWNEE
SHAWNEE, KANSAS

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: P101150313
SCALE: AS SHOWN
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DESIGNED BY: KMB
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TYPICAL SECTIONS

SHEET NO.
3

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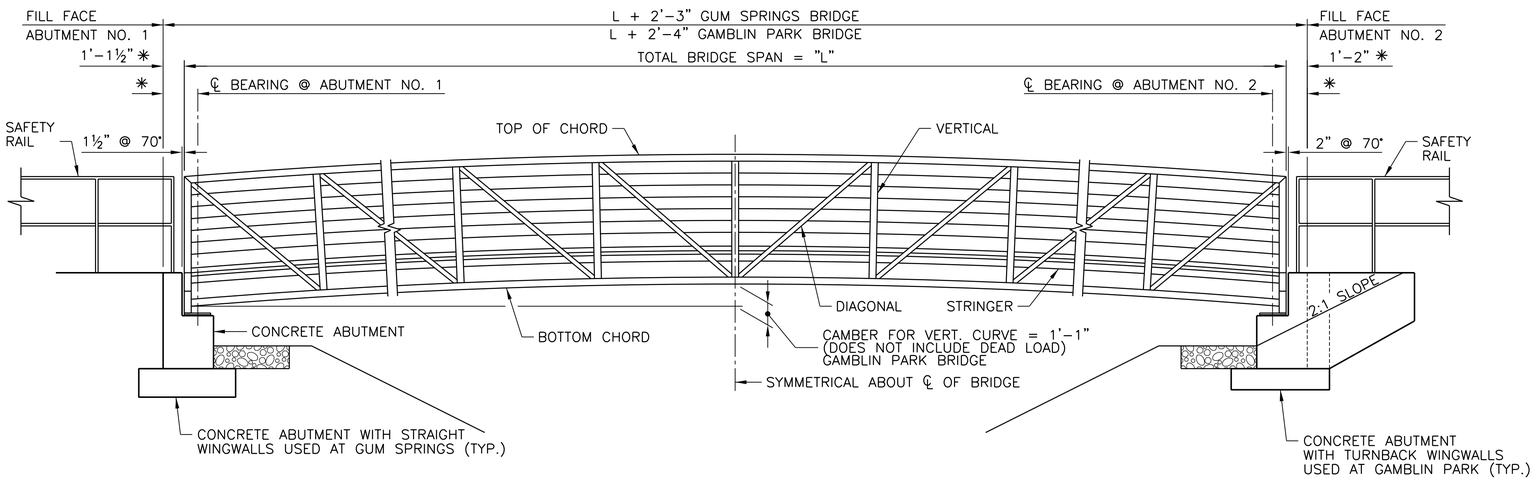
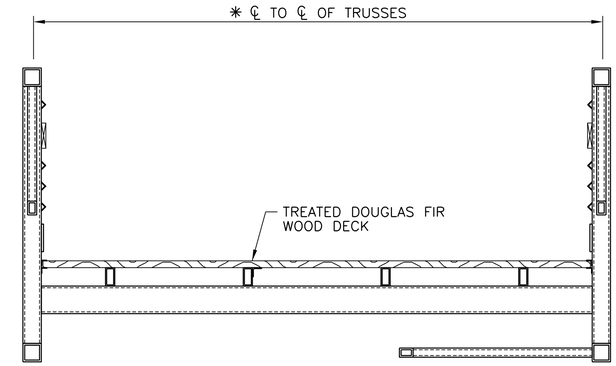


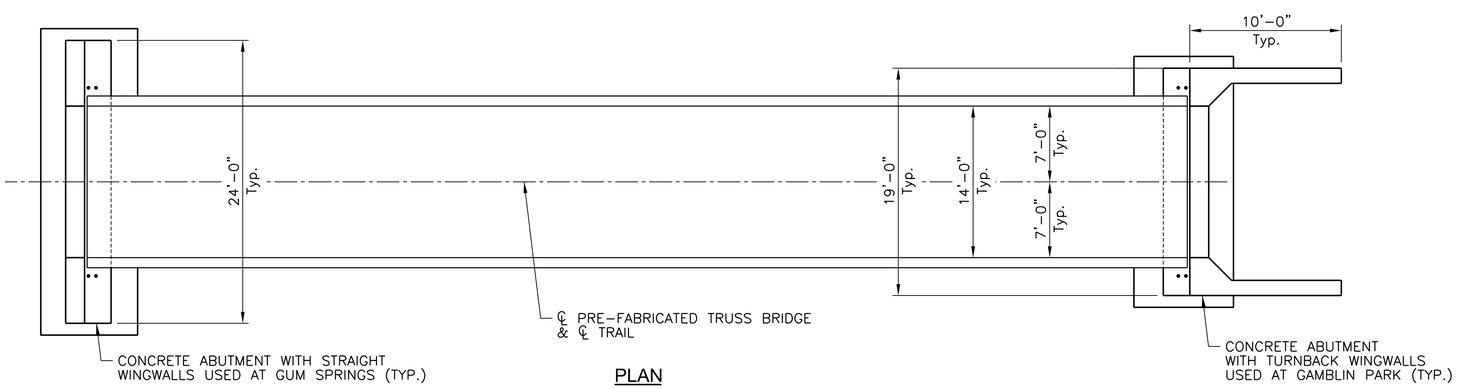
✳ VERIFY DIMENSIONS WITH
PRE-FABRICATED BRIDGE SUPPLIER.

ELEVATION

GAMBLIN PARK BRIDGE L=114'-0"
GUM SPRINGS BRIDGE L=30'-0"



SECTION THRU BRIDGE



PLAN

GENERAL NOTES:

DESIGN SPECIFICATIONS:

AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION WITH 2015 INTERIM REVISIONS.

CONSTRUCTION AND MATERIALS SPECIFICATIONS:

FOR ITEMS NOT COVERED IN CITY SPECIFICATIONS, SEE KDOT CONSTRUCTION MANUAL AND KDOT STANDARD SPECIFICATIONS

DESIGN LOADINGS:

EARTH: 120#/CU. FT., EQUIVALENT FLUID PRESSURE 45#/CU. FT.

DESIGN UNIT STRESSES:

CONCRETE (GRADE 4.0) (AE)	F'C = 4,000 PSI
REINFORCING STEEL (GRADE 60)	FY = 60,000 PSI

REINFORCING STEEL:

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE SHOWN.

DIMENSIONS:

ALL DIMENSIONS SHOWN ON THE PLANS ARE HORIZONTAL UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL MAKE NECESSARY ALLOWANCES FOR ROADWAY GRADE AND CROSS SLOPE.

UTILITIES

CONTRACTOR TO COORDINATE WITH CITY AND UTILITIES TO PROVIDE NECESSARY SAFETY PRECAUTIONS AROUND UTILTY FACILITIES – ON, BELOW, AND ABOVE GROUND.

MANUFACTURERS

THE FOLLOWING BRIDGE MANUFACTURERS ARE PREAPPROVED. BIDDERS MAY SUBMIT ALTERNATE MANUFACTURERS FOR APPROVAL AT LEAST TEN CALENDAR DAYS PRIOR TO BIDDING.

WHEELER
WWW.WHEELER-CON.COM

CONTINENTAL BRIDGE
WWW.CONTECHES.COM

BIG R BRIDGE
WWW.BIGRBRIDGE.COM

ROSCOE BRIDGE
WWW.ROSCOE.COM

NOTE THAT THE ABUTMENTS HAVE BEEN DESIGNED TO THE WHEELER BRIDGE DIMENSIONS. CONTRACTOR TO SUBMIT ABUTMENT REVISIONS REQUIRED TO ACCOMMODATE OTHER BRIDGE MANUFACTURERS. REVISION DRAWINGS MUST BE DESIGNED AND SEALED BY A KANSAS PROFESSIONAL ENGINEER.

TranSystems
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SUITE 400
KANSAS CITY, MO 64108
PHONE: (816) 329-8600

CONSULTANTS:

CONNECT SHAWNEE

SHAWNEE, KANSAS

REVISIONS:		
MARK	DATE	DESCRIPTION

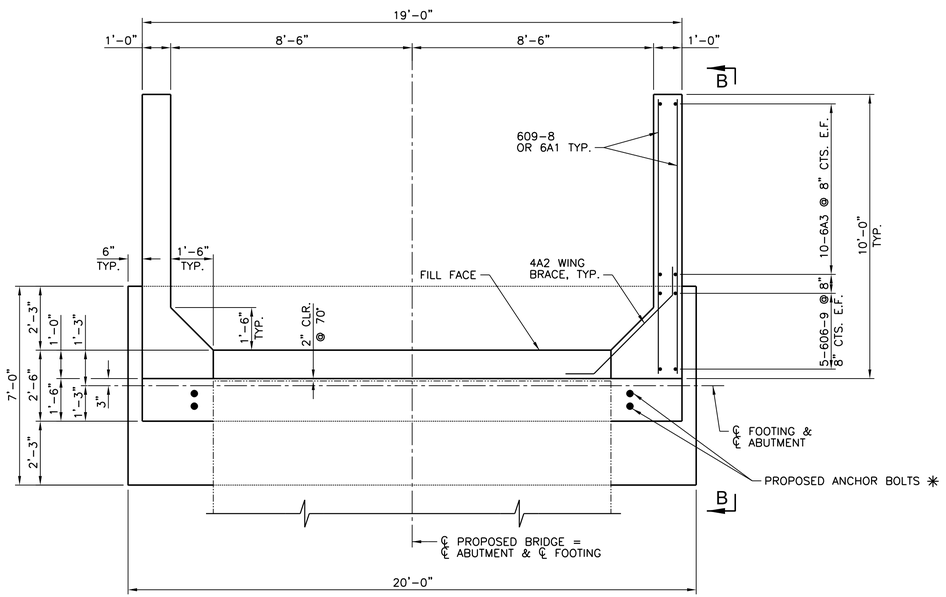
PROJ NO: P101150313
SCALE:
DATE: 4/26/2016
DESIGNED BY: JCB
DRAWN BY: AJD
CHECKED BY: JMK

SHEET TITLE:
BRIDGE LAYOUT

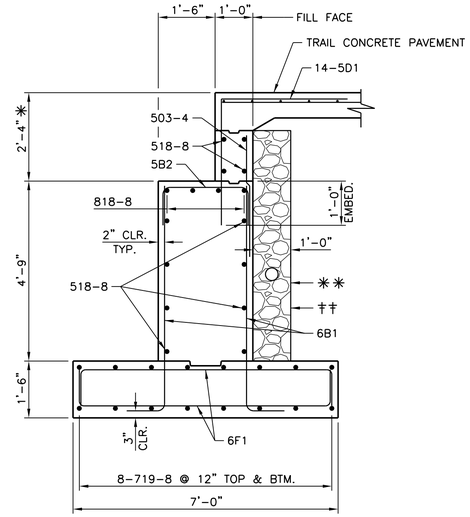
SHEET NO.
4
SHEET 4 OF 27

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

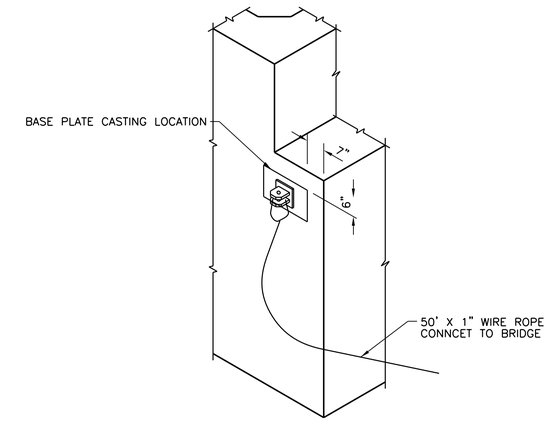
kmbardosi
4/26/2016 - 11:17:11 AM pw:\\hq-pwint01.ae.transyscorp.com:transyscorp-pw1\Documents\Projects\KC101 - Kansas City\P101150313 - Connect Shawnee\304.00 - Bridge\304.03 - Sheets\Const. Layout



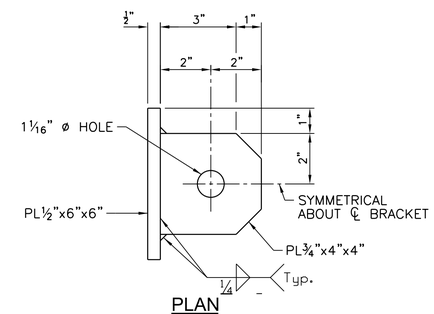
ABUTMENT PLAN



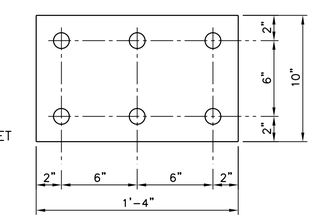
SECTION A-A



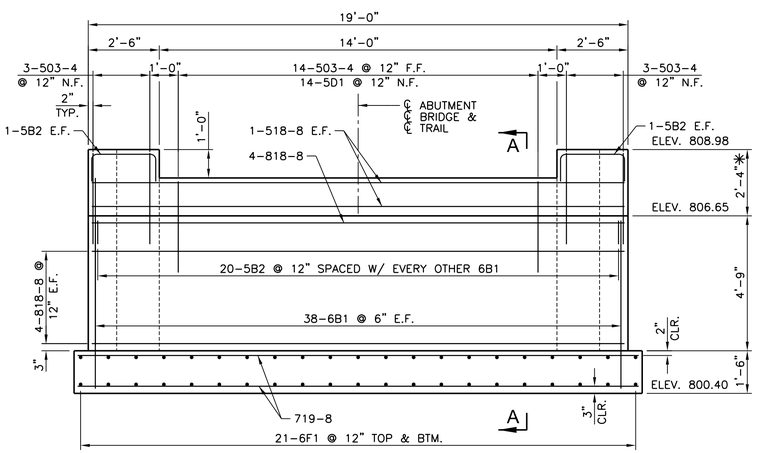
BRACKET LOCATION
SKETCH



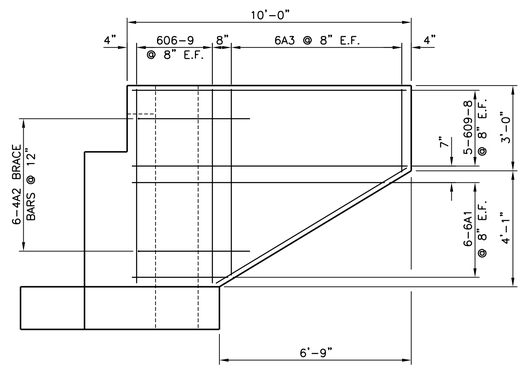
PLAN



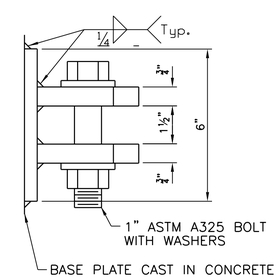
ELEVATION
(BASE PLATE FOR ANCHOR BRACKET)



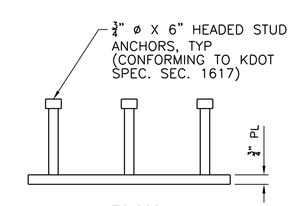
ABUTMENT ELEVATION



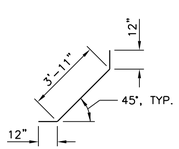
ELEVATION B-B
(TYPICAL WINGWALL REINFORCING)



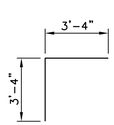
ANCHOR BRACKET



PLAN
(BASE PLATE FOR ANCHOR BRACKET)



#4-A2



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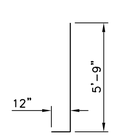
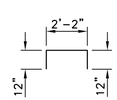
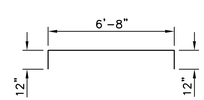


#6-B1



#5-B2



#6-F1

NOTES:
CONTRACTOR TO VERIFY TOP OF ANTICIPATED LIMESTONE LAYER ELEV. 801.53. BOTTOM OF FOOTING ELEVATION SHALL BE EMBEDED A MINIMUM OF 1 FOOT BELOW TOP OF LIMESTONE LAYER.
E.F. DENOTES EACH FACE.
N.F. DENOTES NEAR FACE.
F.F. DENOTES FAR FACE.
CONNECTION BETWEEN 50' X 1" WIRE ROPE AND BRIDGE SHOULD BE APPROVED BY THE ENGINEER. WIRE ROPE & ALL CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF KDOT. WELDING SHALL CONFORM TO KDOT SPECIFICATIONS.
BOLTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
ANCHOR BRACKET & BASE PLATE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
✳ VERIFY DIMENSION WITH PRE-FABRICATED BRIDGE SUPPLIER.
✳✳ COMPLETELY ENCLOSE THE POROUS BACKFILL MATERIAL WITH GEOTEXTILE FABRIC. LAPS, WHERE REQUIRED SHALL BE AT 12" MINIMUM.
†† POROUS BACKFILL MATERIAL IN ACCORDANCE WITH KDOT SPECIFICATIONS, CONTINOUS BEHIND ABUT. BACKWALL.
††† 4" DIA. PERFORATED PIPE UNDER DRAIN, FULL LENGTH OF ABUTMENT, SLOPE A MIN. OF 2% TO DRAIN TO DOWNSTREAM SIDE. USE 4" DIA. NON-PERFORATED PIPE BEYOND THE POROUS BACKFILL. DAYLIGHT PIPE DOWNSTREAM OF ABUTMENT. COVER PIPE OUTLET WITH A GALV. METAL MESH.

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CONSULTANTS:

CONNECT SHAWNEE
SHAWNEE, KANSAS

REVISIONS:			
MARK	DATE	DESCRIPTION	

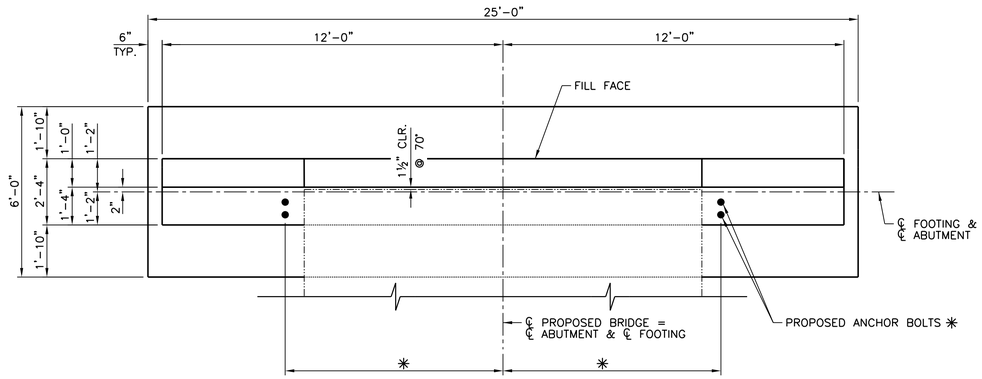
PROJ NO: P101150313
SCALE:
DATE: 4/26/2016
DESIGNED BY: JMK
DRAWN BY: AJD
CHECKED BY: JMK

SHEET TITLE:
GAMBLIN PARK BRIDGE ABUTMENT DETAILS

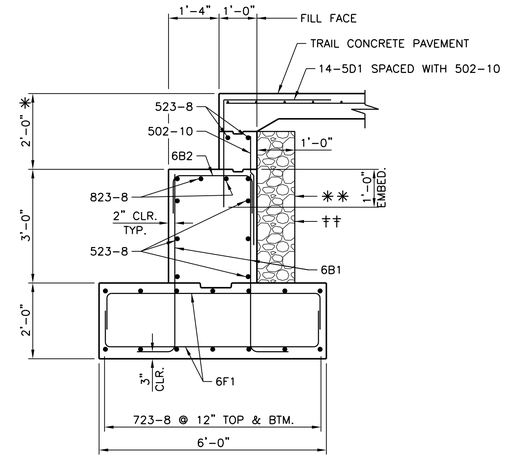
SHEET NO.
5
SHEET 5 OF 27

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

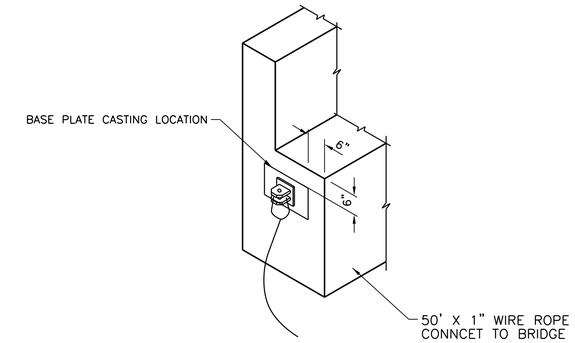
kmbardosi - 11:17:12 AM pw:\\hqpwmf01-ai-s.transyscorp.com\transyscorp-pw1\Documents\Projects\KC101 - Kansas City\P101150313 - Connect Shawnee\304.00 - Bridge\304.03 - Sheets\BRIDGE 1 ABUT. 1
4/26/2016



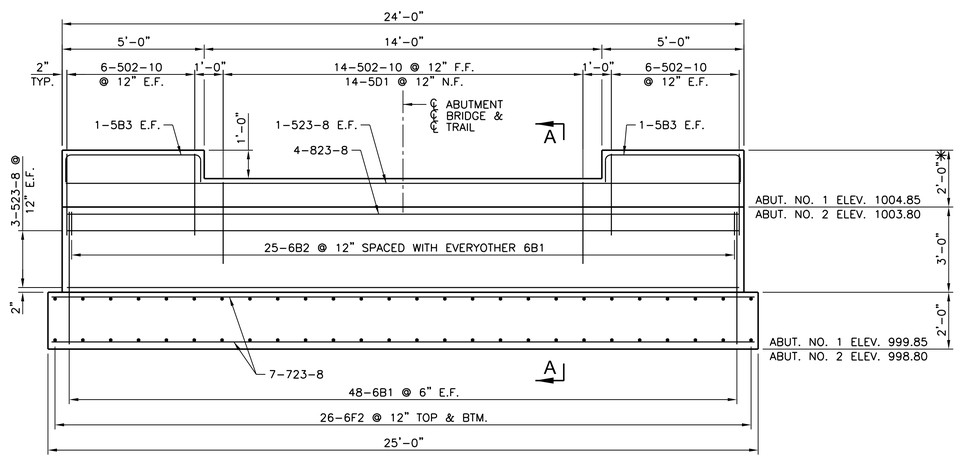
ABUTMENT PLAN



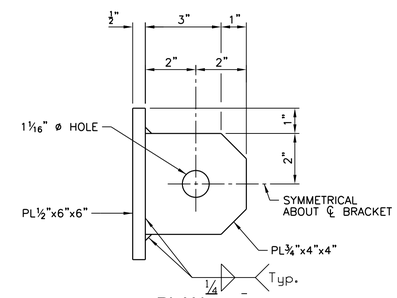
SECTION A-A



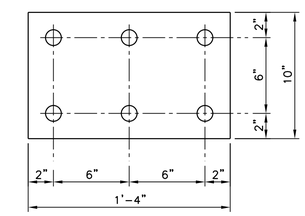
BRACKET LOCATION SKETCH



ABUTMENT ELEVATION

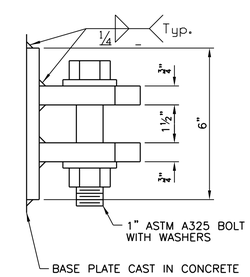


PLAN

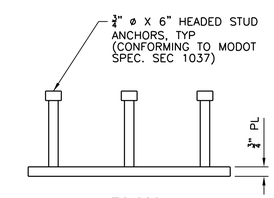


ELEVATION

(BASE PLATE FOR ANCHOR BRACKET)

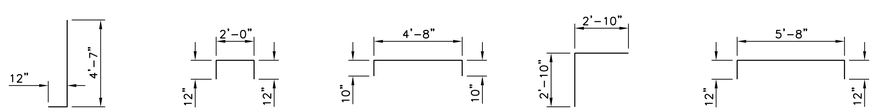


ANCHOR BRACKET



PLAN

(BASE PLATE FOR ANCHOR BRACKET)



#6-B1 #6-B2 #5-B3 #5-D1 #6-F1

NOTES:
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F.F. DENOTES FAR FACE.
N.F. DENOTES NEAR FACE.
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†† POROUS BACKFILL MATERIAL IN ACCORDANCE WITH KDOT, CONTINOUS BEHIND ABUT. BACKWALL.

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CONSULTANTS:

CONNECT SHAWNEE

SHAWNEE, KANSAS

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: P101150313
SCALE:
DATE: 4/26/2016
DESIGNED BY: JMK
DRAWN BY: AJD
CHECKED BY: JMK

SHEET TITLE:

GUM SPRINGS BRIDGE ABUTMENT DETAILS

SHEET NO.

6

SHEET 6 OF 27

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

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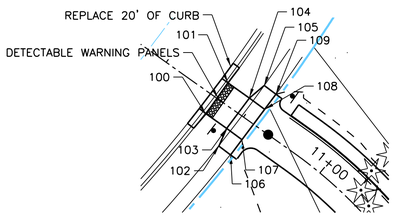
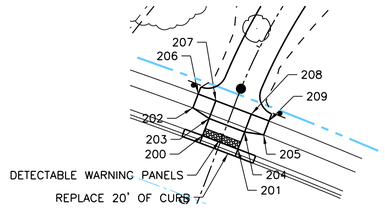
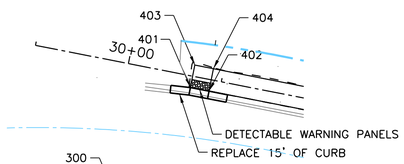


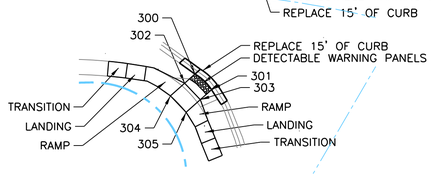


ADA RAMP NO. 1			
POINT	STATION	OFFSET	ELEVATION
100	10+66.42	5.00' RT	829.66
101	10+66.42	5.00' LT	829.81
102	10+74.13	10.00' RT	829.80
103	10+73.11	5.00' RT	829.76
104	10+73.36	5.00' LT	829.91
105	10+74.63	10.00' LT	829.99
106	10+77.99	10.10' RT	829.30
107	10+78.11	5.10' RT	829.83
108	10+78.36	4.90' LT	829.98
109	10.78.49	9.90' LT	829.54

ADA RAMP NO. 2			
POINT	STATION	OFFSET	ELEVATION
200	20+22.83	5.00' LT	817.42
201	20+22.83	5.00' RT	817.57
202	20+28.77	10.00' LT	817.38
203	20+27.67	5.00' LT	817.62
204	20+27.67	5.00' RT	817.77
205	20+28.78	10.00' RT	818.09
206	20+32.67	10.00' LT	817.33
207	20+32.67	5.00' LT	817.69
208	20+32.69	5.00' RT	817.85
209	20+32.69	10.00' RT	818.04

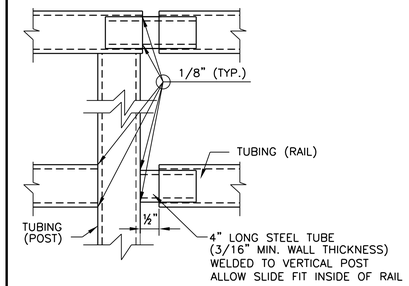


ADA RAMP NO. 3			
POINT	STATION	OFFSET	ELEVATION
300	30+06.24	39.25' RT	1012.00
301	30+11.33	42.47' RT	1011.86
302	30+04.03	42.16' RT	1012.29
303	30+08.93	45.63' RT	1012.19
304	30+01.00	46.14' RT	1012.37
305	30+05.90	49.61' RT	1012.28

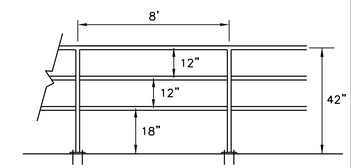


ADA RAMP NO. 4			
POINT	STATION	OFFSET	ELEVATION
400	30+17.28	3.00 RT	1011.88
401	30+22.28	3.00 RT	1011.81
402	30+17.28	3.00 LT	1011.97
403	30+22.28	3.00 LT	1011.89

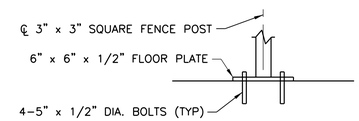
ADA RAMP DETAILS



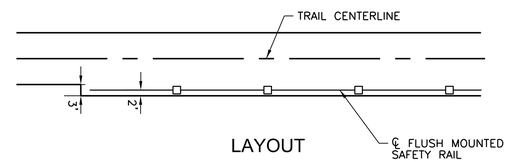
EXPANSION JOINT



ELEVATION



FLUSH MOUNT

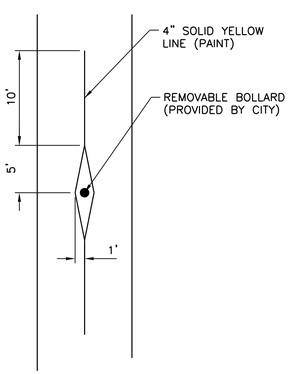


LAYOUT

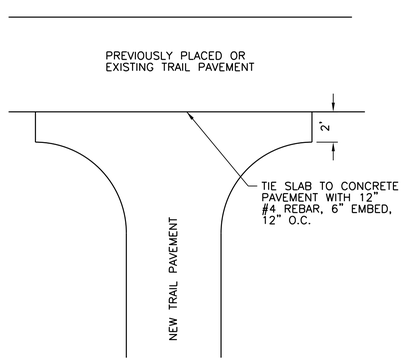
SAFETY RAIL

1) ALL RAILINGS & POSTS 3" x 3" X 3/16" SQUARE TUBULAR SELF-WEATHERING STEEL.
2) ALL WELDS TO BE CONTINUOUS 1/4".
3) 1/4" WEEP HOLE TO PLACED ON EACH POST.
4) EXPANSION JOINTS SHALL BE PLACED EVERY 24'

SUMMARY OF QUANTITIES			
ITEM	DESCRIPTION	QUANTITY	UNIT
1	Mobilization	1	L.S.
2	Contractor Construction Staking	1	L.S.
3	Project Sign	3	Each
4	Work Zone Management	1	L.S.
5	Clearing and Grubbing	0.84	Acres
6	Demolition	1	L.S.
7	Temporary Seeding and Mulching	0.84	Acres
8	Straw Wattle	1,169	L.F.
9	Inlet Protection	2	Each
10	Topsoil Salvage	678	C.Y.
11	Rock Ditch Check	1	Each
12	Rip Rap, Light (24") (2.6')	114	S.Y.
13	Unclassified Excavation	12	C.Y.
14	Embankment	2,605	C.Y.
15	Subgrade Stabilization	200	C.Y.
16	Pugged Aggregate Base (4") AB-3	1,326	S.Y.
17	Curb & Gutter	134	L.F.
18	ADA Ramp (6")	20	S.Y.
19	Concrete Sidewalk and Pads (4") Fiber	85	S.Y.
20	Concrete Trail (6") Fiber	1,116	S.Y.
21	Concrete Residential Drive Approach (6")	37	S.Y.
22	Concrete Flume (6")	22	L.F.
23	Storm Sewer, 18" RCP, Class III	16	L.F.
24	Storm Sewer, 30" RCP, Class III	8	L.F.
25	Storm Sewer, 60" RCP, Class III	76	L.F.
26	18" RCP Flared End Section w/ Toe Wall	1	Each
27	60" RCP Flared End Section w/ Toe Wall	4	Each
28	Area Inlet (4' x 4')	1	Each
29	Curb Inlet (Non-Setback) (4' x 4')	1	Each
30	Adjust Sanitary Sewer Manhole (JCWW)	1	Each
31	Bridge Abutment, Gum Springs Park	2	Each
32	Bridge Abutment, Gamblin Park	2	Each
33	Prefabricated Bridge (14'x114')	1,596	S.F.
34	Prefabricated Bridge (14'x30')	420	S.F.
35	Bollards (Owner Furnished Contractor Installed)	3	Each
36	Safety Railing (48")	64	L.F.
37	Mesh Fence (48")	90	L.F.
38	Limestone Retaining Wall	244	S.F.
39	Seeding and Mulching	0.84	Acres
40	Sodding	110	S.Y.
41	Pavement Markings (6") Solid White Paint	25	L.F.
42	Pavement Markings (4") Solid Yellow Paint	120	L.F.
43	Permanent Signing	19	Each

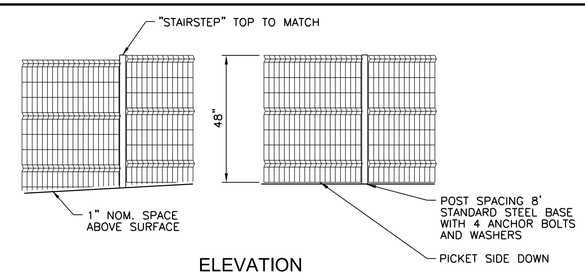


BOLLARD STRIPING DETAIL



INTERSECTION PAVEMENT DETAIL

NOT REQUIRED WHERE THE RADIUS CAN BE PLACED MONOLITHICALLY.

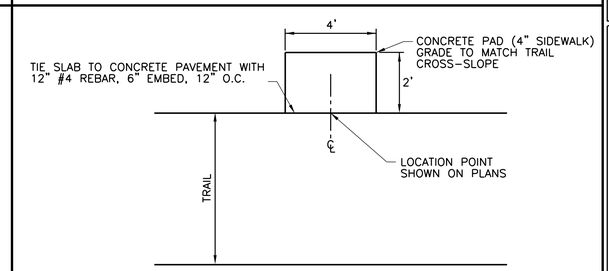


ELEVATION

MESH FENCE DETAIL

NOT TO SCALE

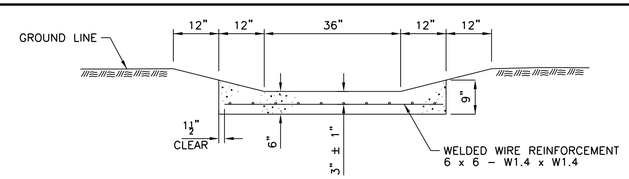
1. ALL FENCE COMPONENTS TO BE BLACK, WELDED WIRE.
2. INSTALL PER MANUFACTURERS REQUIREMENTS.
3. SEE SPECIFICATIONS FOR PRE-APPROVED PRODUCTS.



CONCRETE DRAIN PAD

(NOT TO SCALE)

1. NOTE: DRAIN PAD TO BE PLACED AFTER TRAIL PAVEMENT.



CONCRETE FLUME DETAIL

1. BOLLARDS ARE STORED AT THE PARKS STORAGE HOUSE ON THE EAST SIDE OF WOODLAND DRIVE AT 61ST STREET.
2. BOLLARDS ARE 42" TALL STEEL TUBING WITH BASE PLATE.
3. CONTRACTOR TO HAUL BOLLARD FROM STORAGE HOUSE TO SITE.
4. CONTRACTOR TO DRILL 4 5/8" DIAMETER HOLES IN TRAIL PAVEMENT, AND INSTALL 4 5/8" GALVANIZED BOLTS. BOLTS TO BE 5". BOLTS TO BE EPOXIED IN PLACE AND BOLTED TO THE BOLLARD.

BOLLARD NOTES

TranSystems
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SUITE 400
KANSAS CITY, MO 64108
PHONE: (816) 329-8600

CONSULTANTS:

CONNECT SHAWNEE

SHAWNEE, KANSAS

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO:	P101150313
SCALE:	AS SHOWN
DATE:	4/26/2016
DESIGNED BY:	KMB
DRAWN BY:	KMB
CHECKED BY:	JWZ

SHEET TITLE:

MISCELLANEOUS DETAILS AND QUANTITIES

SHEET NO.

7

SHEET 7 OF 27

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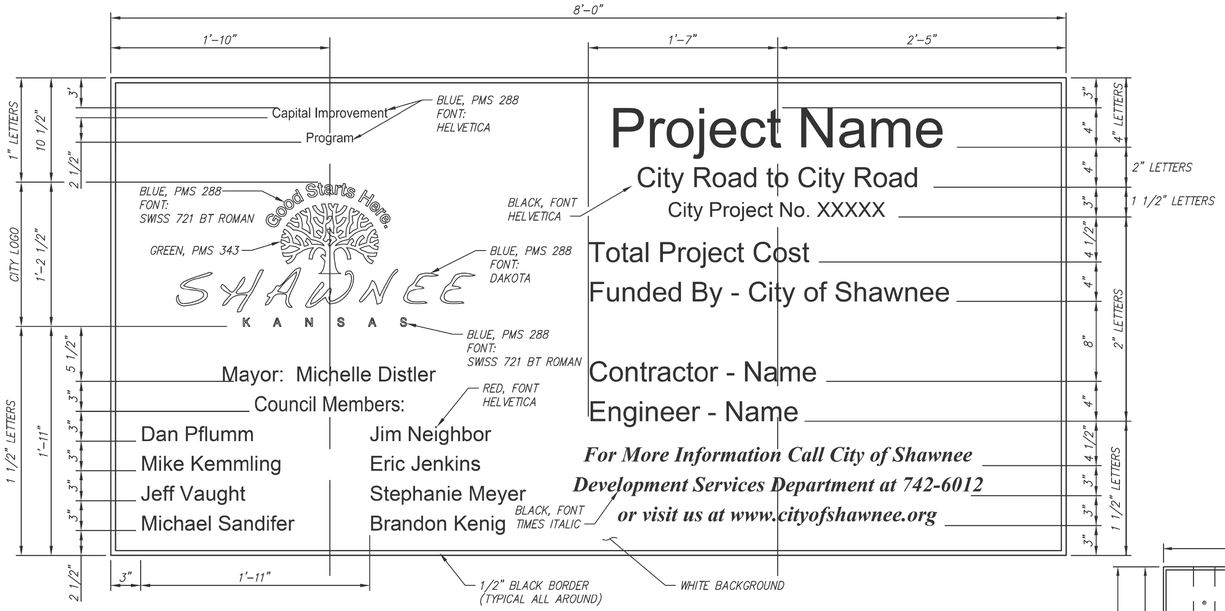
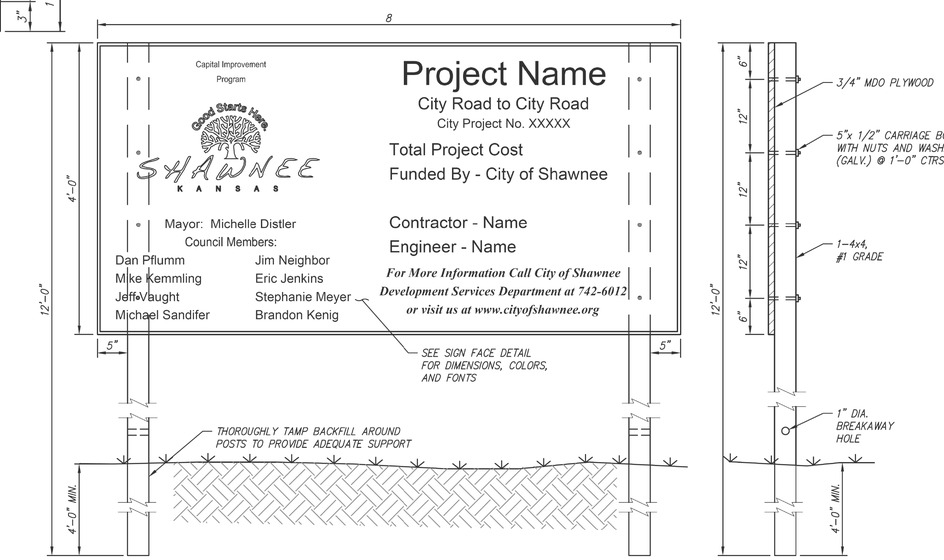


NAMES MUST BE CURRENT, CONTRACTOR WILL BE REQUIRED TO UPDATE DURING CONSTRUCTION.

SIGN FACE DETAIL



PROJECT SIGN NOTES:

1. LETTERING SHALL BE BOLD, ITALIC, AND ANTIQUE OLIVE STYLE AS SHOWN. LETTERING AND CITY LOGO SHALL BE BLOCK VINYL COMPUTER CUT SCOTCHCAL OR APPROVED EQUAL. PAINTED LETTERING OR LOGO SYMBOL SHALL NOT BE ALLOWED. ONE SIDE OF SIGN ONLY.
2. LETTER SIZES SHOWN ARE FOR CAPITAL LETTERS.
3. SIGN AND POSTS SHALL BE PAINTED ON ALL SIDES WITH TWO (2) COATS EXTERIOR WHITE PRIMER AND ONE (1) COAT EXTERIOR WHITE SEMI-GLASS FINISH.
4. A SCALE DRAWING OF THE SHAWNEE CITY LOGO AND COLOR SIGN MUST BE OBTAINED THROUGH THE CITY ENGINEER.
5. THE CONTRACTOR SHALL PROVIDE AND INSTALL PROJECT SIGN(S) ON THE PROJECT SITE IN THE NUMBERS AND LOCATIONS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. MEASUREMENT AND PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH FOR THE BID ITEM "PROJECT SIGN".
6. SIGN SHALL BE ERECTED PRIOR TO ANY CONSTRUCTION ACTIVITY AND MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. SIGN SHALL BE REMOVED AND DISPOSED BY CONTRACTOR UPON PROJECT COMPLETION.
7. CONTENT OF ITEMS TO BE FILLED IN SHALL BE SUPPLIED BY THE CITY ENGINEER.
8. SAMPLES OF COLORS TO BE USED SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.
9. THE SIGN SHALL BE MANUFACTURED BY A REPUTABLE, PROFESSIONAL SIGN MAKER.
10. ALL FONTS SHALL BE AS CALLED OUT IN THE DETAIL OR APPROVED EQUAL.
11. ALL COLORS, WITH EXCEPTION OF THE CITY LOGO, SHALL BE PANTONE COLORS AS CALLED OUT IN THE DETAIL OR APPROVED EQUAL. COLORS WERE SELECTED USING THE "PANTONE, COLOR FORMULA GUIDE PRINTER EDITION, FIRST EDITION 2001, SECOND PRINTING", WITH COLORS AS FOLLOWS:

COLOR	PANTONE COLOR NUMBER
BLACK	BLACK U
RED	200 U
BLUE	2925 U
GREEN	355 U
BLUE-GREEN	326 U

12. COLORS FOR THE CITY LOGO ARE CALLED OUT ON THE DETAIL. THE PMS 288 (BLUE) HAS THE FOLLOWING VALUES: C=100, M=67, Y=0, K=23. R=0, G=75, B=141. THE PMS 343 (GREEN) HAS THE FOLLOWING VALUES: C=98, M=0, Y=72, K=61. R=0, G=87, B=61. THE LOGO SHALL BE COMPUTER CUT SCOTCHCAL, OR APPROVED EQUAL, AND CANNOT BE PAINTED.

CITY PROJECT SIGN - STANDARD DETAILS

Date	Revision	By	Appr.
3-1-14	SHAWNEE DESIGN & CONSTRUCTION MANUAL REVISIONS	MRS	PJL
8-21-12	REVISED TO MATCH CONSTRUCTION SPECIFICATION REVISIONS	MRS	PJL

CITY PROJECT SIGN
& MOUNTING DETAIL

DEVELOPMENT SERVICES

Good Starts Here. SHAWNEE KANSAS

DATE:	08-27-2007	3630-1
DRAWN BY:	MRS	
CHECKED BY:	PJL	SHEET 1 OF 1

TranSystems
2400 PERSHING ROAD
SUITE 400
KANSAS CITY, MO 64108
PHONE: (816) 329-8600

CONSULTANTS:

CONNECT SHAWNEE
SHAWNEE, KANSAS

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: P101150313
SCALE: AS SHOWN
DATE: 4/26/2016
DESIGNED BY: KMB
DRAWN BY: KMB
CHECKED BY: JWZ

SHEET TITLE:
PROJECT SIGN DETAIL

SHEET NO.
8
SHEET 8 OF 27

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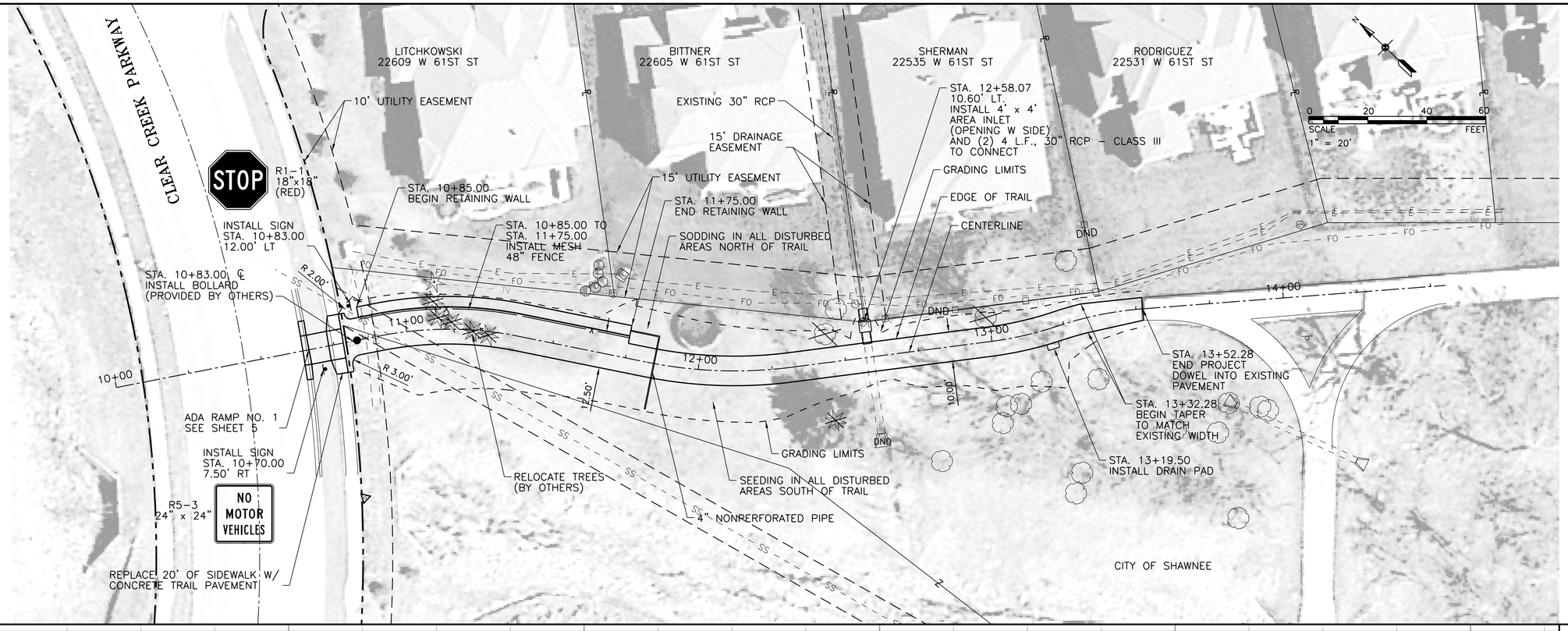

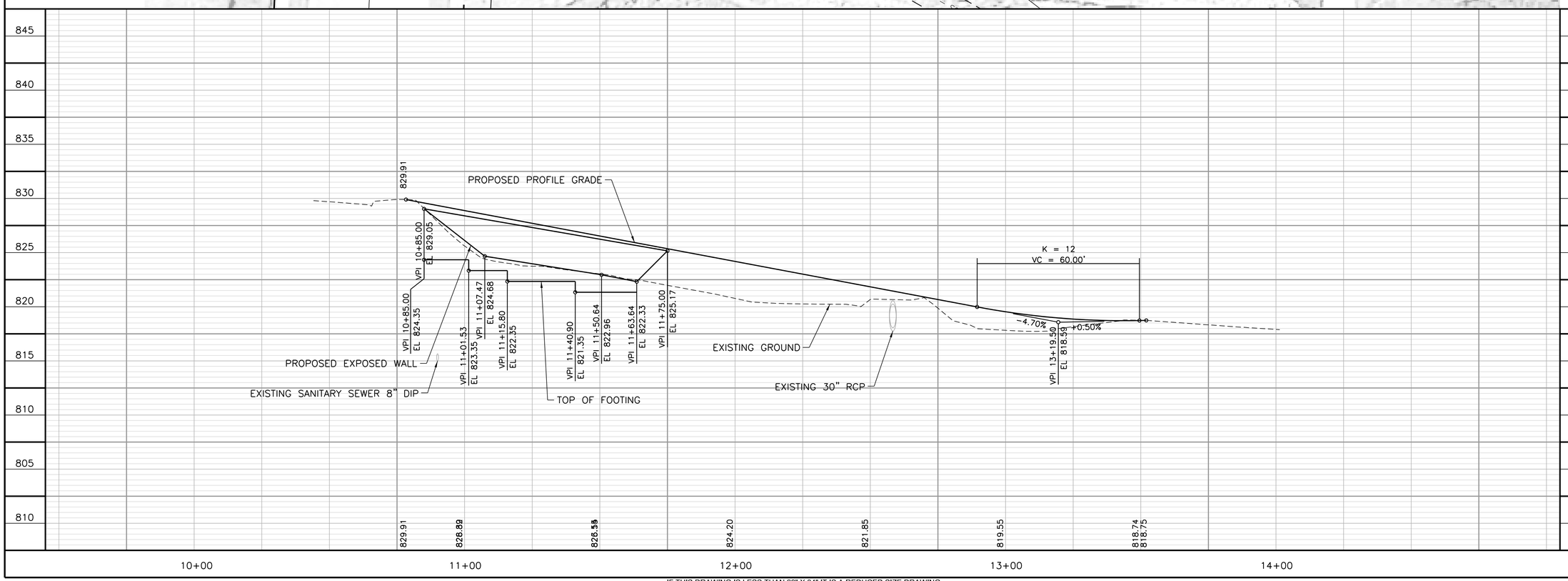

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PROJ NO: P101150313
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DRAWN BY: KMB
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SHEET TITLE:

CLEAR CREEK PARKWAY

SHEET NO.

9

SHEET 9 OF 27

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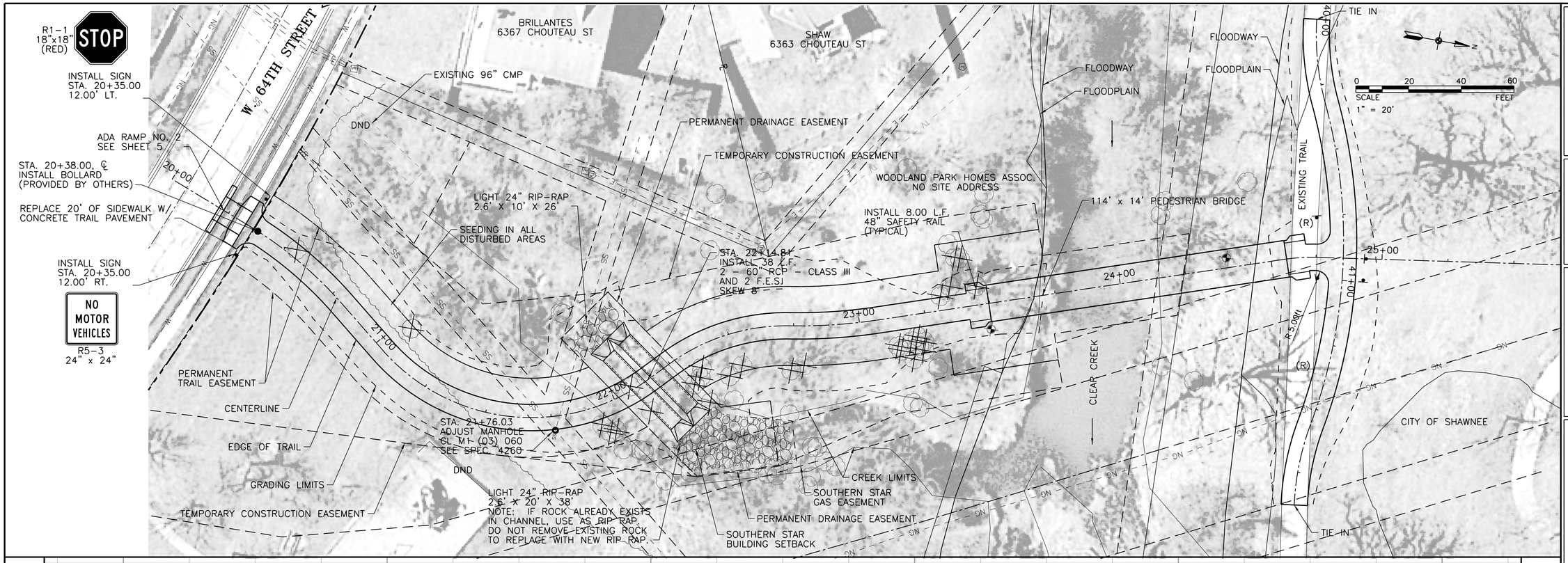

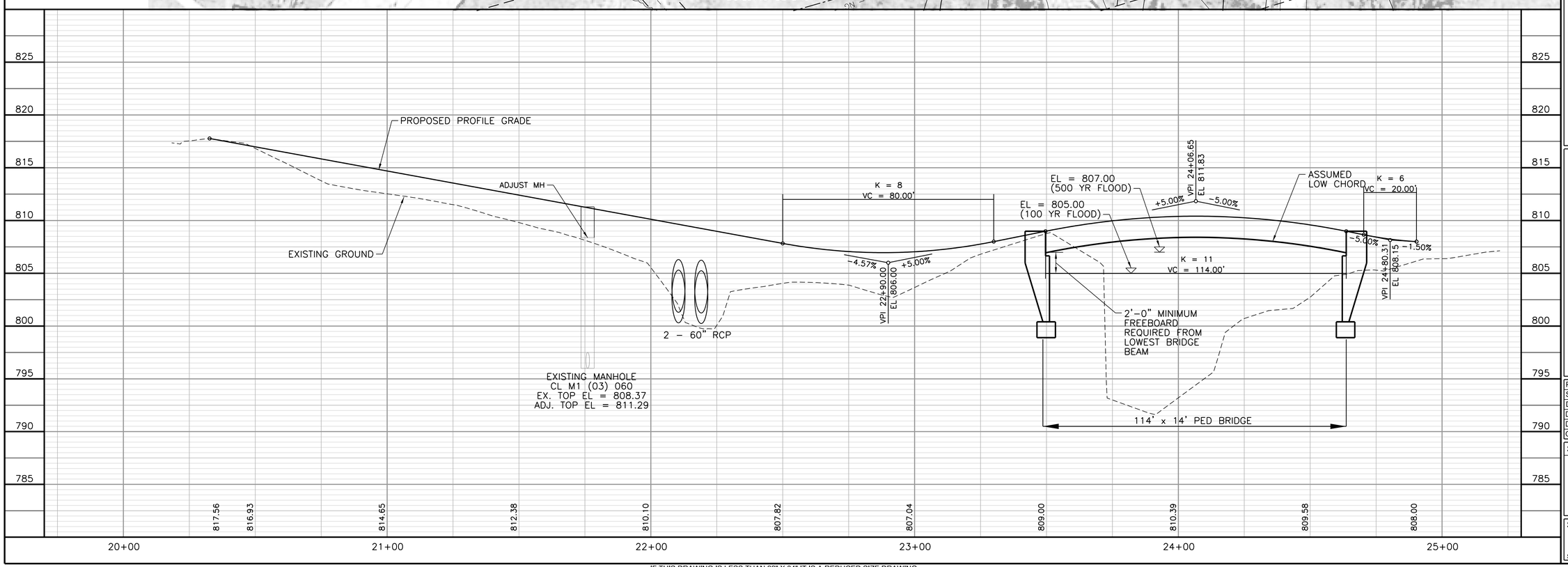

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SCALE: 1" = 20'
DATE: 4/26/2016
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DRAWN BY: KMB
CHECKED BY: JWZ

SHEET TITLE:

GAMBLIN PARK

SHEET NO.

10

SHEET 10 OF 27

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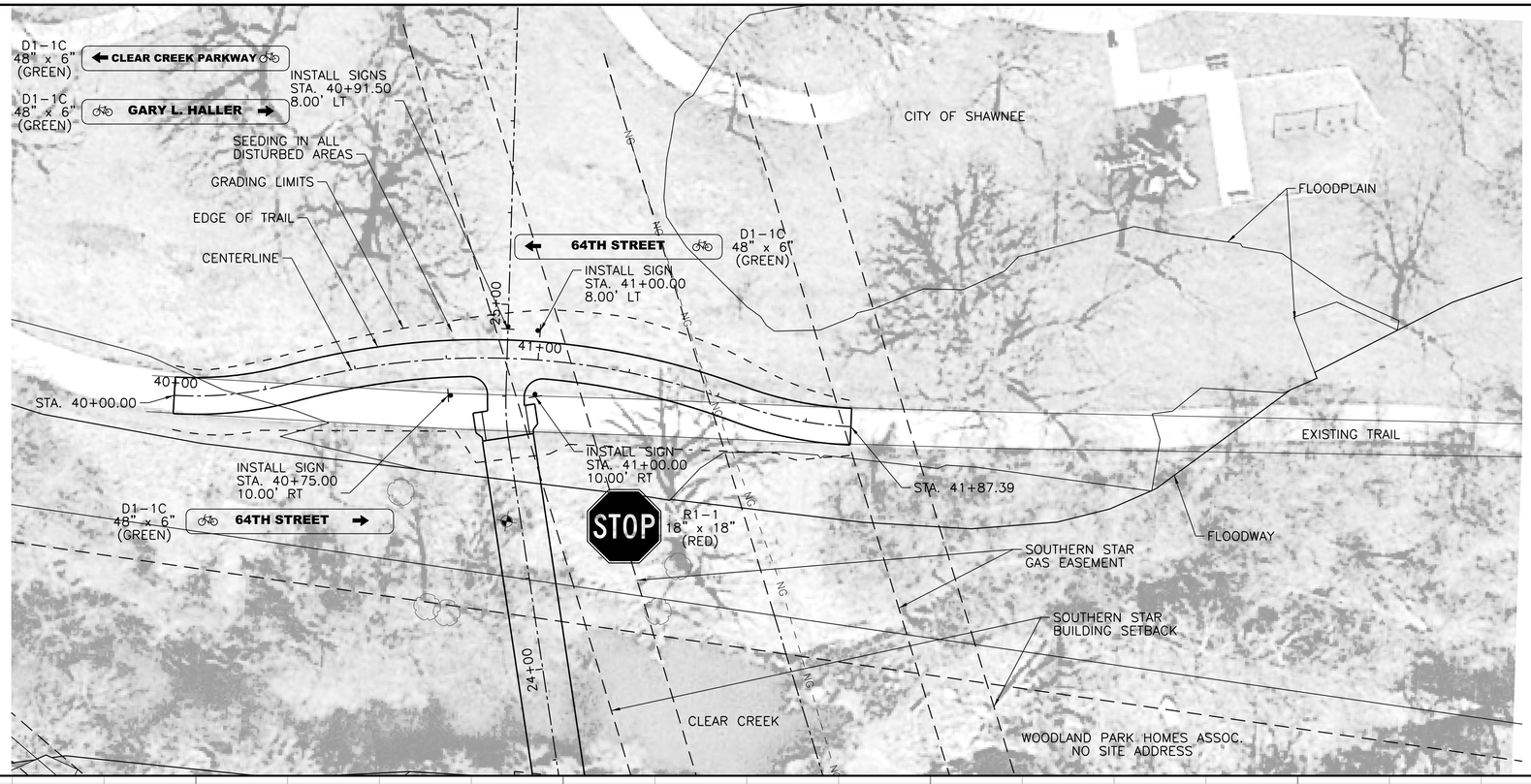
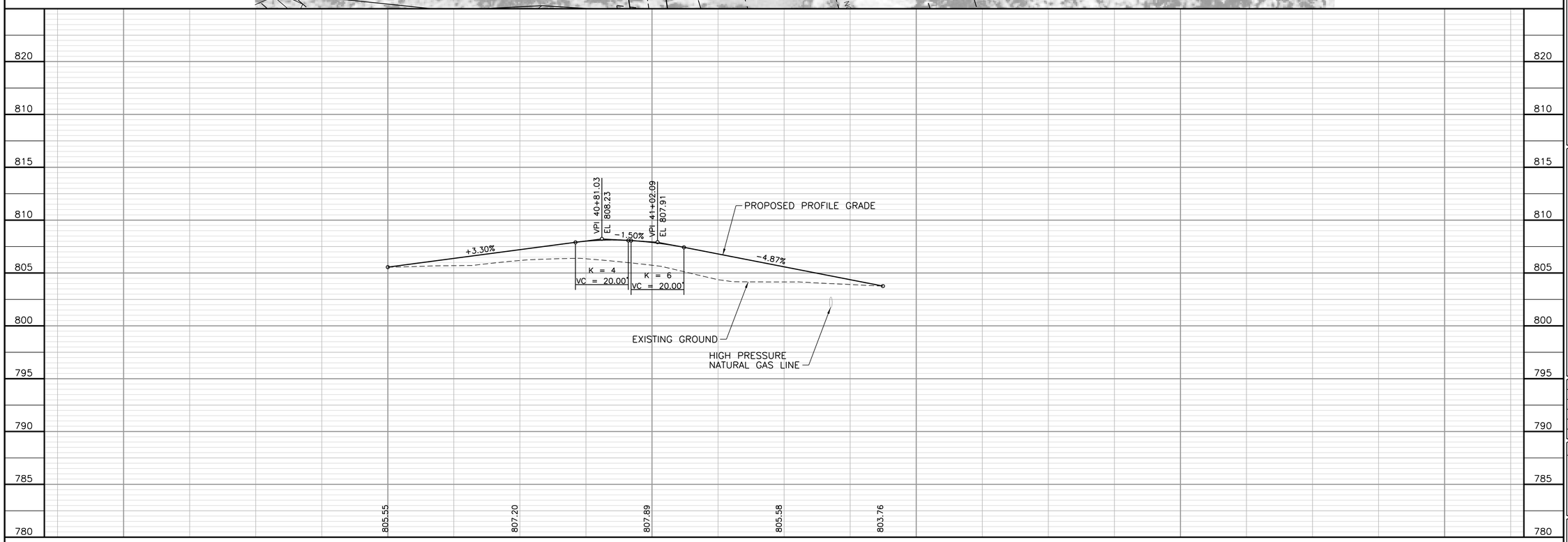


N

0 20 40 60
SCALE FEET
1" = 20'



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MARK	DATE	DESCRIPTION

PROJ NO: P101150313
SCALE: 1" = 20'
DATE: 4/26/2016
DESIGNED BY: KMB
DRAWN BY: KMB
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SHEET TITLE:

GAMBLIN PARK
TIE-IN

SHEET NO.
11

SHEET 11 OF 27

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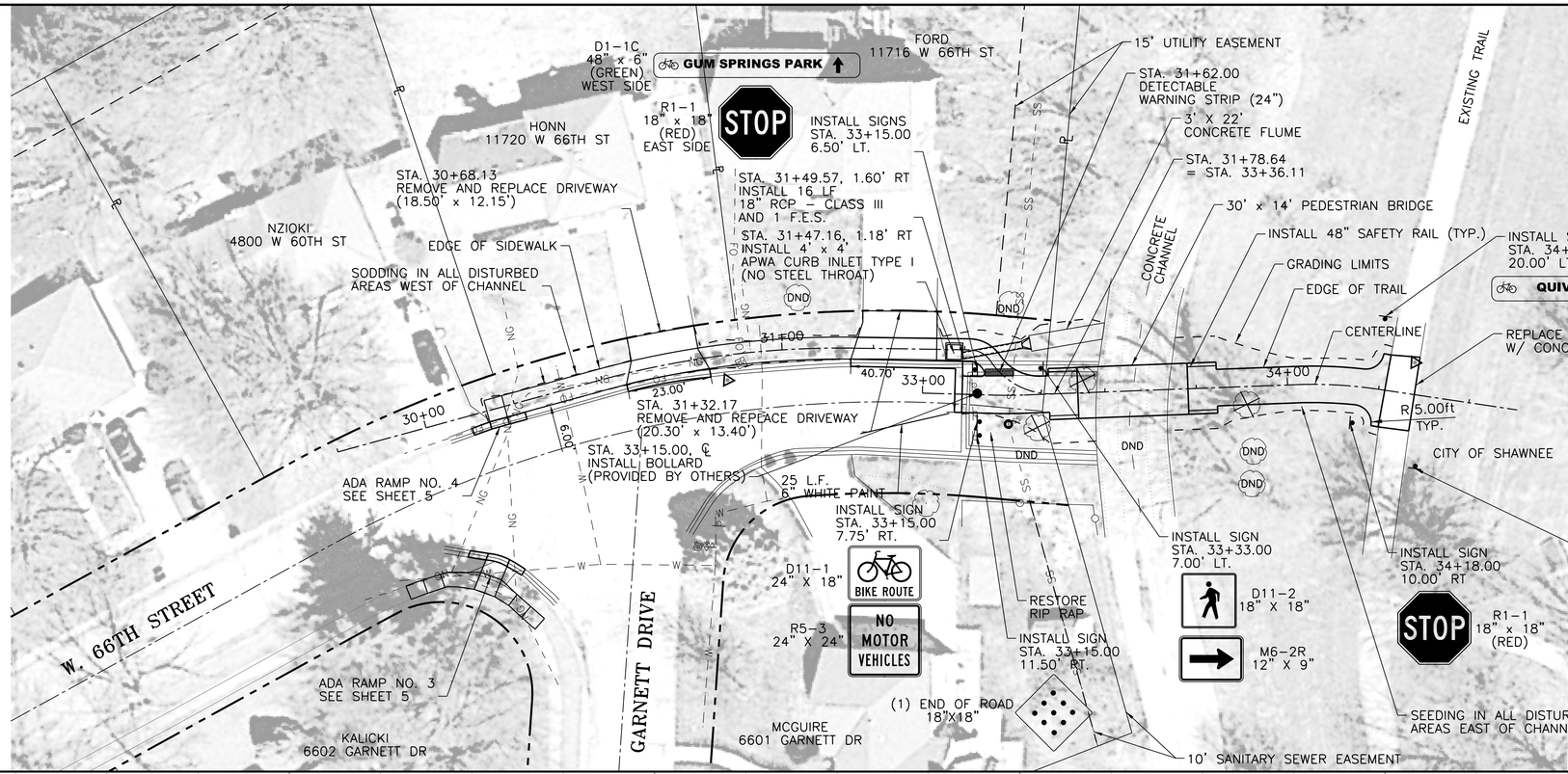

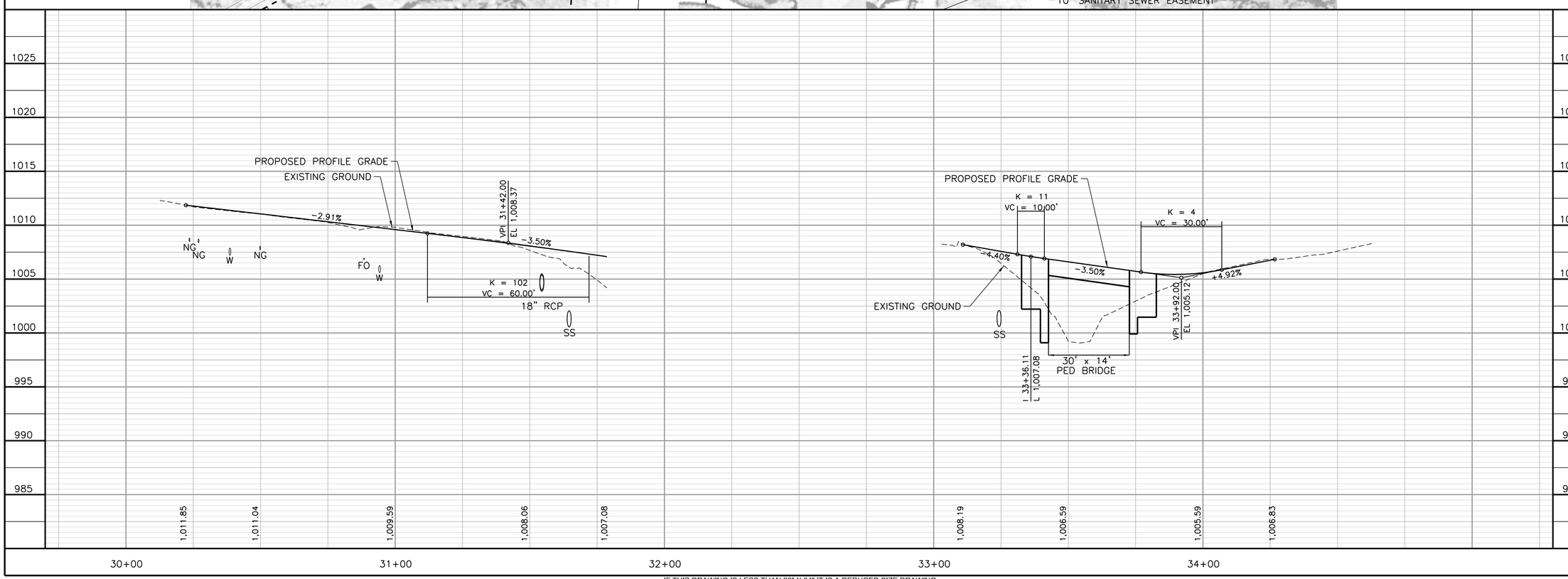

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MARK	DATE	DESCRIPTION

PROJ NO: P101150313
SCALE: 1" = 20'
DATE: 4/26/2016
DESIGNED BY: KMB
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SHEET TITLE:

GUM SPRINGS PARK

SHEET NO.
12
SHEET 12 OF 27

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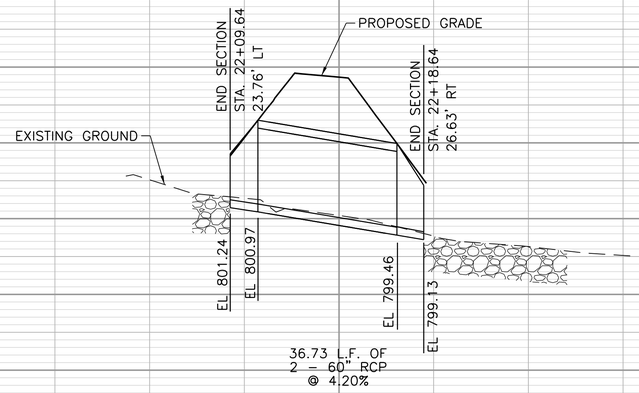
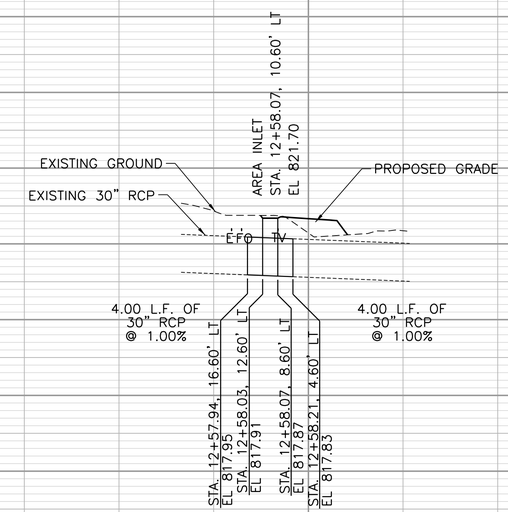
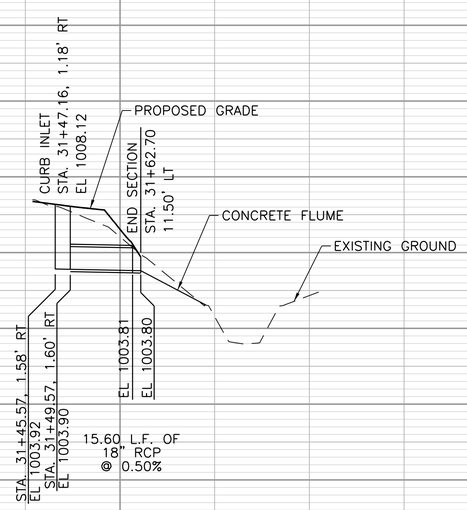
4/26/2016



CULVERTS AT STA. 22+14.81
GAMLBIN PARK



AREA INLET STA. 12+58.07
CLEAR CREEK PARKWAY



CURB INLET AND CULVERT AT STA. 31+47.56
GUM SPRINGS PARK

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SHEET TITLE:

STORM SEWER PROFILES

SHEET NO.
13

SHEET 13 OF 27

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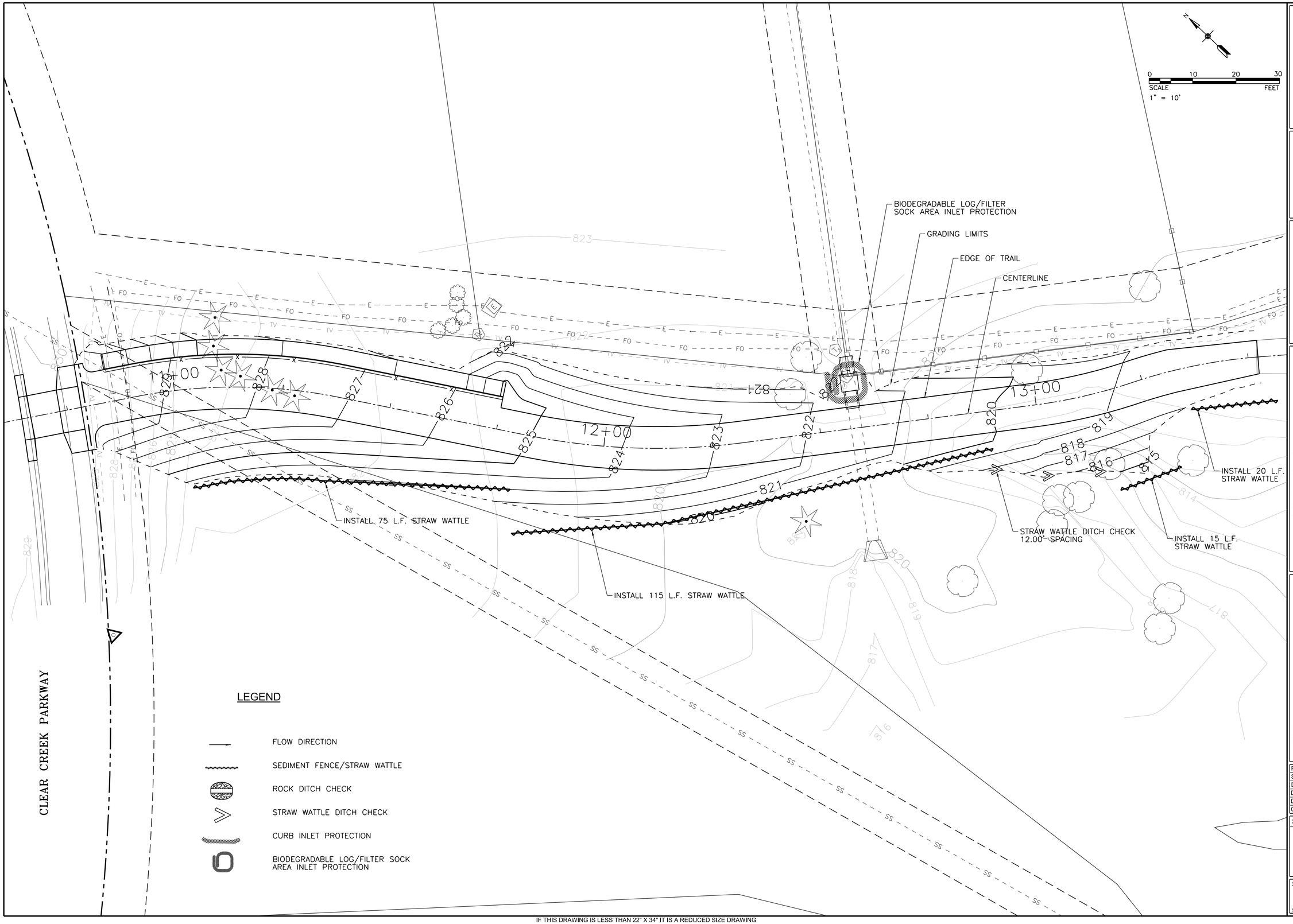

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CONSULTANTS:

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REVISIONS:		
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PROJ NO:	P101150313
SCALE:	1" = 10'
DATE:	4/26/2016
DESIGNED BY:	KMB
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SHEET TITLE:

CLEAR CREEK PARKWAY GRADING PLAN

SHEET NO.

14

SHEET 14 OF 27

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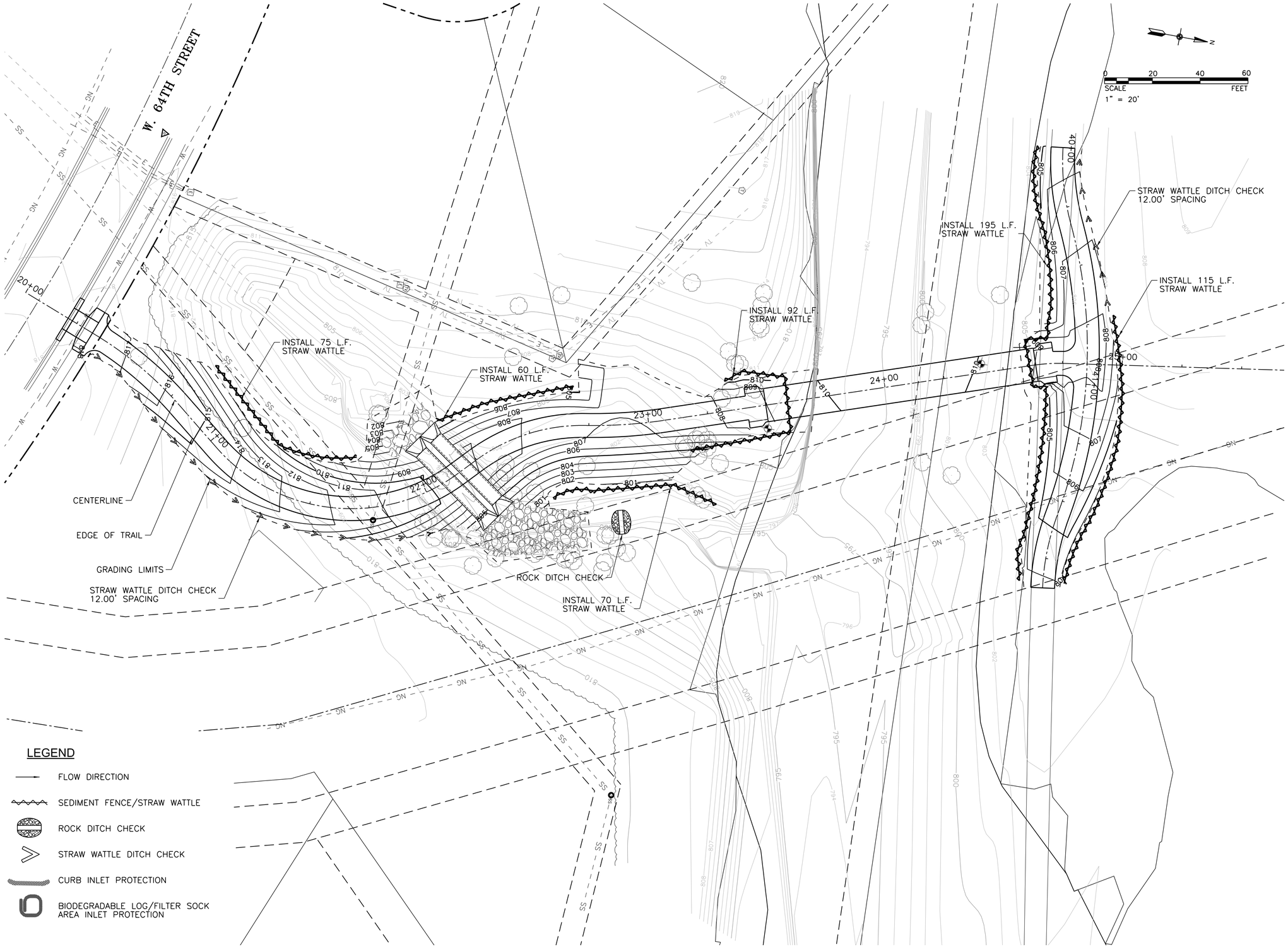

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SCALE: 1" = 20'
DATE: 4/26/2016
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SHEET TITLE:

GAMBLIN PARK
GRADING PLAN

SHEET NO.
15

SHEET 15 OF 27

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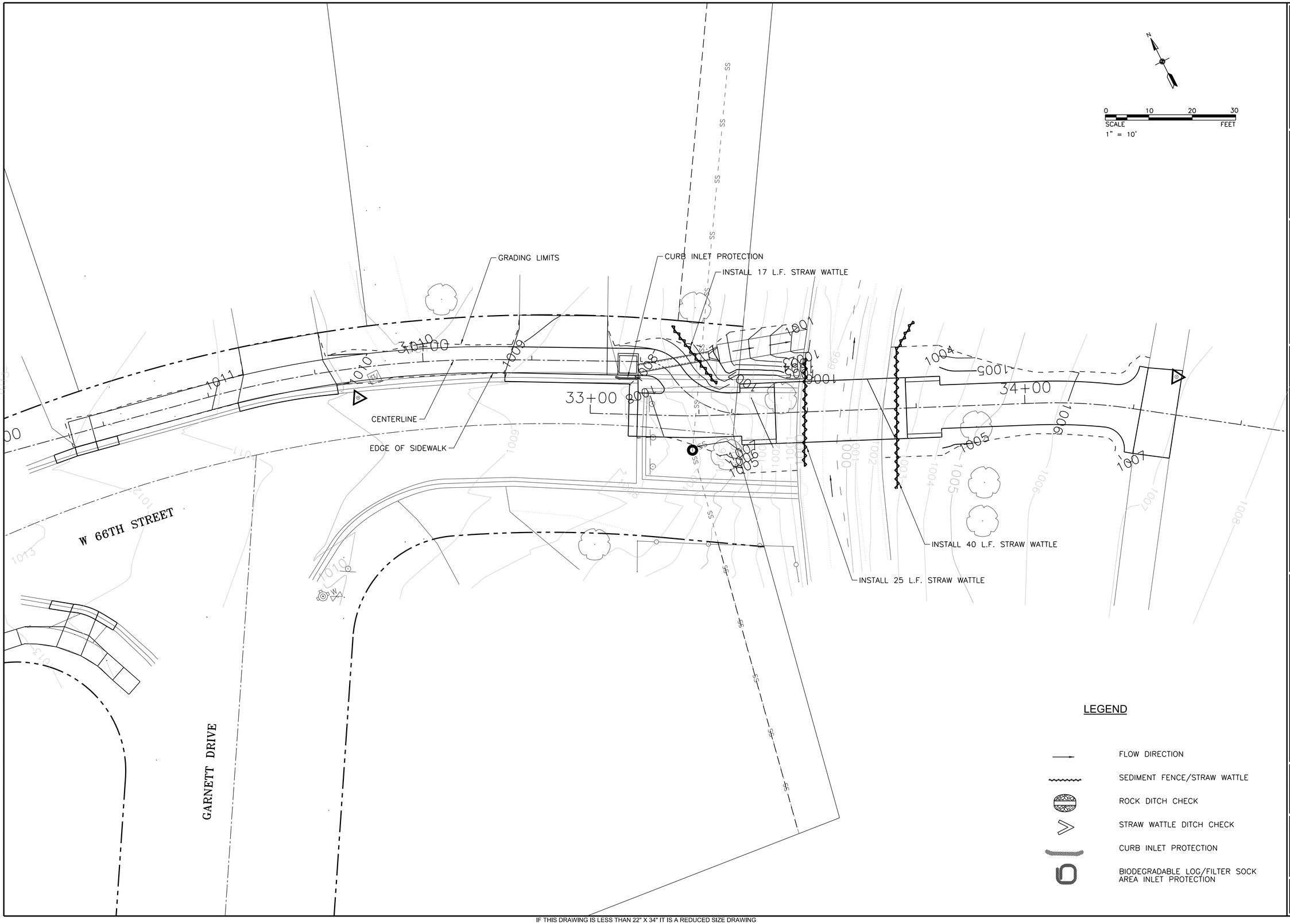

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PHONE: (816) 329-8600

CONSULTANTS:

CONNECT SHAWNEE

SHAWNEE, KANSAS

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: P101150313
SCALE: 1" = 10'
DATE: 4/26/2016
DESIGNED BY: KMB
DRAWN BY: KMB
CHECKED BY: JWZ

SHEET TITLE:

GUM SPRINGS PARK GRADING PLAN

SHEET NO.

16

SHEET 27 OF 16

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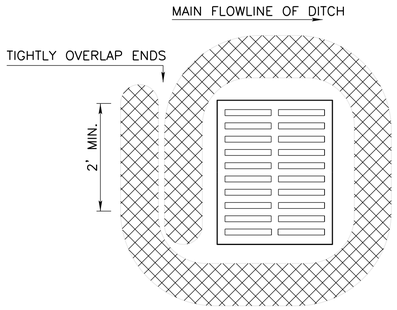
BIODEGRADABLE LOG/FILTER SOCK DROP INLET PROTECTION



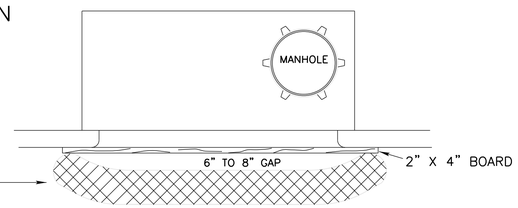
DROP INLET USE
1'-6" TO 1'-8" DIAMETER LOG

Note: 25% OF LOG SHALL BE KEYED INTO GROUND DURING INSTALLATION.

STAKE EVERY 4'

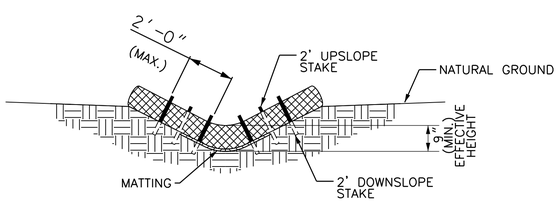
MATERIAL REQUIREMENTS
USE 100" SHREDDED MULCH OR OTHER NON-COMPOST BIODEGRADABLE MATERIAL AS FILL FOR LOGS.
NO COMPOST OR FINES.
NO HAY OR STRAW.
DO NOT USE MATERIAL WHICH PROHIBITS WATER INFILTRATION.
LOG MESH: USE MESH WITH ¼" OPENINGS OR LARGER MESH MUST ALLOW WATER INFILTRATION BUT ALSO HOLD FILL MATERIAL IN PLACE.

CURB INLET PROTECTION



BAGS = SYNETHIC NET (3MM MESH) OR BURLAP BAGS
ROCK = APPROXIMATELY 1" TO 2" DIAMETER

1. IF MULTIPLE GRAVEL BAGS ARE REQUIRED, PLACE THEM IN SUCH A WAY THAT NO GAPS ARE EVIDENT.
2. HEIGHT OF BAGS (8" MINIMUM DIAMETER) MUST NOT BE ABOVE TOP OF CURB.
3. ALTERNATIVE PRODUCTS MAY BE USED OTHER THAN GRAVEL BAGS SUCH AS THE "GUTTER BUDDY." PRODUCTS MUST BE APPROVED BY THE ENGINEER.
4. CURB INLET PROTECTION WILL BE MEASURED AND PAID FOR AS INLET PROTECTION.



TYPICAL SECTION
VEE DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER LOG/SOCK.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

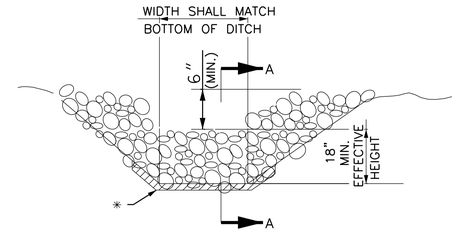
INSTALL LOG/SOCK TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND LOG/SOCK AND SCOUR DITCH SLOPES OR AS DIRECTED BY ENGINEER.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE LOG/SOCK TO BOTTOM OF DITCH.

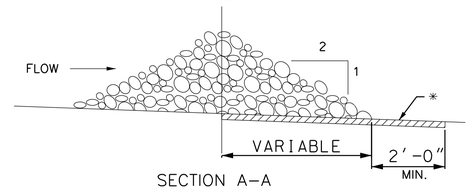
EROSION CONTROL BLANKET SHALL BE ANCHORED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AS A SUBSIDIARY ITEM.

DITCH CHECK WILL BE MEASURED AND PAID FOR AS STRAW WATTLE.

ROCK DITCH CHECK



END VIEW



SECTION A–A

* GEOTEXTILE LINING MAY BE INSTALLED AS REQUIRED BY THE ENGINEER.

NOTE:

ROCK DITCH CHECK IN THE CLEAR ZONE SHALL BE REMOVED OR LEVELED (IF ALLOWABLE) AFTER THE VEGETATION HAS SUFFICIENTLY MATURED TO PROTECT THE DITCH OR SWALE.

EROSION CONTROL NOTES

1. EROSION CONTROL PLAN IS FOR INFORMATION ONLY. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A PLAN TO CONTROL EROSION AND SILTATION DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION AND UNTIL THE NEW VEGETATION IS ESTABLISHED AND IS PROTECTING THE GROUND.
3. A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EACH POINT WHERE CONSTRUCTION EQUIPMENT WILL EXIT TO THE ADJACENT PUBLIC ROAD SYSTEM, PER APWA STANDARD DRAWING ESC-01. THE CONSTRUCTION AND MAINTENANCE OF THIS ENTRANCE SHALL BE SUBSIDIARY TO OTHER EROSION CONTROL MEASURES SHOWN ON THIS PLAN.
4. ALL CONSTRUCTION SUPPLIES AND EQUIPMENT SHALL BE STAGED AND STORED WITHIN THE LIMITS OF THE CONSTRUCTION PROJECT.
5. THE SCOPE OF EACH EROSION CONTROL MEASURE INCLUDES INITIAL INSTALLATION, ADJUSTMENTS AND MAINTENANCE AS CONSTRUCTION PROGRESSES, REMOVAL OF ACCUMULATED SILT DURING AND AT THE END OF CONSTRUCTION, AND REMOVAL OF THE MEASURE AT THE COMPLETION OF THE PROJECT.
6. EXCEPT WHERE NECESSARY TO INSTALL EROSION AND SEDIMENT CONTROL DEVICES, CLEARING ACTIVITIES SHALL NOT BEGIN UNTIL ALL EROSION AND SEDIMENT CONTROL DEVICES HAVE BEEN INSTALLED AND THE SOIL HAS BEEN STABILIZED.
7. SEDIMENT CONTROL SHALL BE COMPLETED WITHIN FOURTEEN (14) CALENDAR DAYS ON ALL OTHER DISTURBED OR GRADED AREAS. THIS REQUIREMENT DOES NOT APPLY TO THOSE AREAS THAT ARE SHOWN ON THE PLANS THAT ARE CURRENTLY BEING USED FOR MATERIAL STORAGE OR FOR THOSE AREAS, WHICH ACTUAL CONSTRUCTION ACTIVITIES ARE CURRENTLY BEING PERFORMED. IF THE ENGINEER DETERMINES THAT A SITE HAS A HIGH POTENTIAL FOR EROSION BASED ON PREVIOUS INFORMATION SUBMITTED, HE MAY DIRECT THAT DISTURBED SOIL BE STABILIZED AFTER PERIODS OF CONSTRUCTION INACTIVITY OF MORE THAN FORTY- EIGHT (48) HOURS.
8. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL PUBLIC ROADWAYS ADJACENT TO THE CONSTRUCTION SITEFREE OF DIRT AND DEBRIS RESULTING FROM ACTIVITIES RELATED TO THE CONSTRUCTION OF THIS PROJECT.
9. THE CONTRACTOR SHALL PROVIDE FOR CONTROL OF SURFACE EROSION AND SEDIMENT DEPOSITION DURINGALL PHASES OF CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. THE CONTRACTOR SHALL PROVIDE TEMPORARY SEEDING, BERMS, SILT FENCE, SEDIMENT TRAPS OR OTHER MEANS TO PREVENT SEDIMENT FROM REACHING THE PUBLIC RIGHT-OF-WAY, STREAMS OR ADJACENT PROPERTY. IN THE EVENT THE PREVENTION MEASURES ARE NOT EFFECTIVE, THE CONTRACTOR SHALL REMOVE ANY DEBRIS SEDIMENT AND RESTORE THE RIGHT-OF-WAY AND ADJACENT PROPERTY TO ITS ORIGINAL OR BETTER CONDITION.
10. CONTRACTOR SHALL KEEP THE ENTIRE PROJECT SITE FREE OF DEBRIS AND TRASH AT ALL TIMES. CONTRACTOR SHALL EXECUTE WORK USING METHODS THAT MINIMIZE EXCESSIVE NOISE OR DUST EMISSIONS. CONTRACTOR SHALL PROVIDE METHODS, MEANS AND FACILITIES TO PREVENT CONTAMINATION OF SOIL OR WATER FROM DISCHARGE OF POTENTIAL CONSTRUCTION SITE POLLUTANTS (I.E., DIESEL FUEL, PORT-A-POTTY WASTE, PAINTS, ETC.)
11. THE CONTRACTOR SHALL PREPARE AND FOLLOW A PHASED METHOD OF CONSTRUCTION GRADING TO MINIMIZE THE AMOUNT OF EXPOSED BARE GROUND AT ANY ONE TIME. THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS WITH TEMPORARY SEEDING AND RECEIVE APPROVAL FROM THE CITY BEFORE CONTINUING TO DISTURB ADDITIONAL AREAS.
12. FOLLOWING STRIPPING OPERATIONS, THE CONTRACTOR SHALL REMOVE EXISTING TOPSOIL AND STOCKPILE THE MATERIAL IN AN APPROVED AREA. STOCKPILES SHALL BE STABILIZED BY TEMPORARY SEEDING AND ENCIRCLED WITH SILT FENCE.
13. CONTRACTOR MUST INSTALL AND MAINTAIN THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE PLANS. IF THE ENGINEER DETERMINES THAT THE INSTALLATION OR THE MAINTENANCE IS INADEQUATE, THE CONTRACTOR MUST IMMEDIATELY CORRECT AT HIS EXPENSE. IF IT IS DETERMINED THAT ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES ARE NEEDED THE CONTRACTOR WILL BE DIRECTED TO INSTALL AND MAINTAIN THOSE MEASURES.
14. FOLLOWING THE FINAL REMOVAL OF ALL EROSION CONTROL MEASURES THE CONTRACTOR SHALL RE-GRADE AND SEED/SOD ALL AREAS THAT WERE DISTURBED BY THE REMOVAL. SEED/SOD PLACED ON DISTURBED AREAS (OUTSIDE OF THE CONSTRUCTION LIMITS INDICATED ON THE PLANS) DUE TO THE REMOVAL OF ANY AND ALL EROSION CONTROL MEASURES OR STOCKPILES SHALL BE SUBSIDIARY TO THOSE EROSION CONTROL MEASURES.
15. THE CONTRACTOR SHALL INSPECT THE LAND DISTURBANCE SITE AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN TWENTY-FOUR (24) HOURS FOLLOWING EACH RAINFALL EVENT OF 1/2" OR MORE WITHIN ANY TWENTY-FOUR (24) HOUR PERIOD. THE CONTRACTOR SHALL ALSO INSPECT AND ASSURE THAT ALL SEDIMENT CONTROL DEVICES ARE IN WORKING CONDITION PRIOR TO ANY FORECASTED RAINFALL.
16. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM THE FLOW AREAS AND MAKE ALL NECESSARY REPAIRS TO MAINTAIN THE INTEGRITY OF THE SEDIMENT CONTROL MEASURES. SEDIMENT SHALL BE REMOVED ONCE IT REACHES 1/2 THE INSTALLED HEIGHT OF MEASURE.
17. SEDIMENT CONTROL MEASURES SHALL BE REMOVED ONCE 70 PERCENT OF THE PERMANENT COVER IS ESTABLISHED OVER 100 PERCENT OF THE TRIBUTARY AREA.
18. SOME EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS DIVERSION DIKES AND SEDIMENT TRAPS, WILL REQUIRE THE CONTRACTOR TO INSTALL, REMOVE, AND REINSTALL THE MEASURES AS CONSTRUCTION PROCEEDS. THE PHASING OF THIS WORK IS DEPENDENT ENTIRELY ON THE CONTRACTOR'S SCHEDULE, AND IS NOT SPECIFIED HEREIN. HOWEVER, THE CONTRACTOR SHALL COORDINATE THESE ACTIONS WITH THE ENGINEER AT THE TIMES ADJUSTMENTS ARE NEEDED.
19. INSTALLATION, INSPECTION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE MISSOURI DEPARTMENT OF NATURAL RESOURCES.
20. DIVERSIONS SHALL BE USED AS MUCH AS PRACTICABLE TO DIVERT UPLAND RUNOFF AROUND DISTURBED AREAS OF THE CONSTRUCTION SITE. MAINTAIN DIVERSIONS AROUND CUT AND FILL SLOPES AS MUCH AS PRACTICABLE UNTIL SLOPES ARE FULLY STABILIZED WITH VEGETATION.
21. TEMPORARY DIKES, SWALES AND DIVERSIONS CREATING CONCENTRATED FLOW PATHS SHALL BE SEEDED AND MULCHED OR SODDED WITHIN 24 HOURS OF CONSTRUCTION.
22. INLET PROTECTION MEASURES SHALL BE USED TO PREVENT SEDIMENT TRANSPORT THROUGH STORM SEWER PIPES AND OUTLET PROTECTION SHALL BE USED TO PREVENT EROSION AT THE OUTLET OF ENCLOSED SYSTEMS.

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CONSULTANTS:

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REVISIONS:		
MARK	DATE	DESCRIPTION

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SCALE: AS SHOWN
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DESIGNED BY: KMB
DRAWN BY: KMB
CHECKED BY: JWZ

SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NO.
17
SHEET 17 OF 27

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GENERAL NOTES:

1. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL THE PROPOSED TRAFFIC CONTROL PLAN(S) FOR EACH STAGE OF CONSTRUCTION TO THE ENGINEER.
2. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. THE ENGINEER WILL CONTACT THE CITY TO ADJUST TRAFFIC SIGNAL PHASING AND TIMING AS NEEDED TO ACCOMMODATE NEW TRAFFIC PATTERNS DURING CONSTRUCTION.
4. CHANNELIZING DEVICES: "DEVICES" INCLUDES BUT ARE NOT LIMITED TO BARRICADES, BARRIERS, CONES, DRUMS AND VERTICAL PANELS.
   (A) THE MAXIMUM SPACING BETWEEN DEVICES IN THE TAPER SHOULD NOT EXCEED A DISTANCE IN FEET EQUAL TO THE EXISTING SPEED LIMIT (IN MPH) PRIOR TO WORK.
   (B) THE SPACING BETWEEN DEVICES IN THE WORK ZONE SHOULD NOT EXCEED A DISTANCE IN FEET EQUAL TO TWICE THE POSTED SPEED.
   (C) THE SPACING BETWEEN DEVICES IN CURVE RADII INTO DRIVES OR CROSS STREETS SHOULD NOT EXCEED A DISTANCE OF 10 FEET.
   (D) TRAFFIC CONES MAY BE UTILIZED AS CHANNELIZING DEVICES FOR DAYTIME TRAFFIC CONTROL OPERATIONS. THE ENGINEER MAY REQUIRE THAT CONES BE SUPPLEMENTED BY OTHER TRAFFIC CONTROL DEVICES IN CERTAIN SITUATIONS SUCH AS OPEN TRENCHES.
   (E) FOR SHORT TERM OPERATIONS WHERE TRAFFIC MUST BE SHIFTED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKINGS, THE MAXIMUM SPACING OF CHANNELIZING DEVICES SHALL BE 10 FEET. FOR NON-SHORT TERM OPERATIONS THE CONFLICTING PAVEMENT MARKING SHALL BE REMOVED AND TEMPORARY MARKINGS PLACED.
5. COVERING OF SIGNS NOT IN USE: WHEN NO WORK IS IN PROGRESS, AND THE ROADWAY IS UNRESTRICTED TO THE TRAVELING PUBLIC, TRAFFIC CONTROL SIGNS SHALL BE REMOVED OR COMPLETELY COVERED WITH ADEQUATE OPAQUE WATERPROOF MATERIAL. TAPE SHALL NOT BE APPLIED TO THE FACE OF A SIGN. LANE CLOSURE SIGNS SHALL BE TAKEN DOWN OR COVERED ANYTIME LANES ARE RE-OPENED TO TRAFFIC.
6. WHERE FLAGGERS ARE REQUIRED, ADVANCE SIGNING SHALL BE AS REQUIRED BY THE MUTCD. FLAGGERS SHALL MEET THE REQUIREMENTS OF THE MUTCD WITH REGARD TO CHARACTER, ATTIRE, BEHAVIOR AND MUST BE CERTIFIED AS A FLAGGER WITHIN A WORK AREA BY ATSSA OR IMSA.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, POSITIONING, CLEANING AND REPLACING DAMAGED TRAFFIC CONTROL DEVICES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL OPEN TRAFFIC LANES AND SIDEWALK AREAS FREE OF MUD AND DEBRIS. ALL WORK AREAS OUTSIDE OF TRAVEL LANES OR OFF THE ROADWAY SHALL BE FENCED WITH ORANGE SAFETY FENCE DURING NON-CONSTRUCTION PERIODS AND AT ALL TIMES IN PEDESTRIAN AREAS.
9. ADEQUATE CLEARANCE AND POSITIONING OF EQUIPMENT AND WORK VEHICLES AT INTERSECTIONS SHALL BE MAINTAINED TO PROVIDE PROPER SIGHT DISTANCE AND SAFE OPERATION OF VEHICLES, AND FOR PEDESTRIANS.

BUFFER SPACE:

SPEED (MPH)	20	25	30	35	40	45	50	55	60	65	70
LENGTH (FT)	35	55	85	120	170	220	280	335	415	485	585

LENGTH AND DEVICE SPACING FOR
LANE CLOSURE AND CHANNELIZATION TAPERS

SPEED LIMIT	MINIMUM TAPER LENGTH (L) **			MIN. NO. OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING
M.P.H.	LANE WIDTH IN FEET 10	11	12	(12' LANE)	IN FEET
20	70	75	80	5	20
25	105	115	125	6	25
30	150	165	180	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55

**NOTE: TAPER FORMULA –

L = WS S ≥ 45 MPH
L = (WS)/60 S ≤ 40 MPH

WHERE
L = MINIMUM TAPER LENGTH (FEET)
S = POSTED SPEED LIMIT (MPH)
W = WIDTH OF OFFSET (FEET)

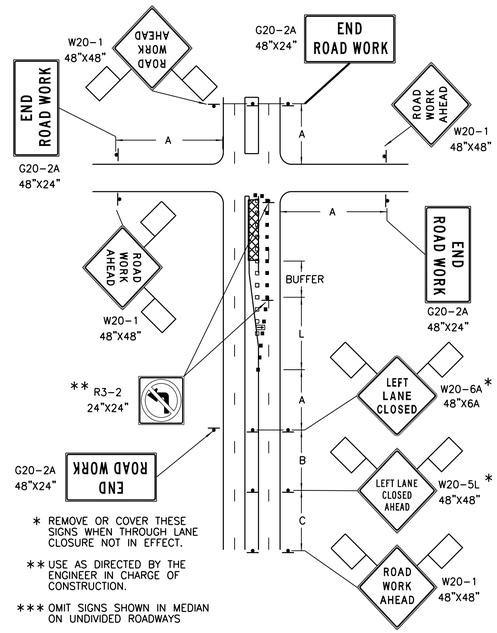
SIGN SPACING (IN FEET):

	A	B	C
URBAN (40 MPH OR LOWER)	200	200	200
URBAN (45 MPH OR HIGHER)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1600	2600

IN NO CASE SHALL THE SPACING BETWEEN SIGNS BE LESS THAN 100 FEET.

LEGEND

- CHANNELIZING DEVICE
- CHANNELIZING DEVICE DURING PERIODS WHEN ADJACENT LANE CLOSURE NOT REQUIRED
- TYPE I BARRICADE WITH TYPE C LIGHT
- SEQUENTIAL FLASHING ARROW PANEL
- TRAFFIC CONTROL SIGN ***
- WORK AREA
- FLAGGER



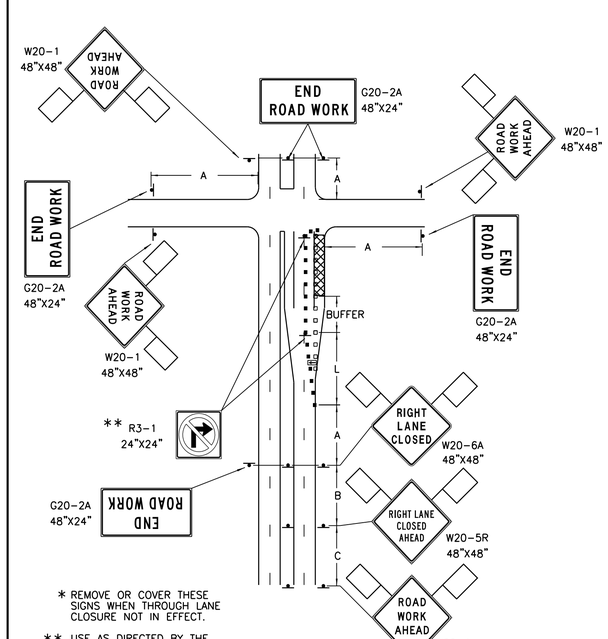
* REMOVE OR COVER THESE SIGNS WHEN THROUGH LANE CLOSURE NOT IN EFFECT.

** USE AS DIRECTED BY THE ENGINEER IN CHARGE OF CONSTRUCTION.

*** OMIT SIGNS SHOWN IN MEDIAN ON UNDIVIDED ROADWAYS

FOR LONG TERM CLOSURE (MORE THAN 3 DAYS), LEFT TURN SIGNAL HEAD SHALL BE COVERED.

LEFT-TURN LANE CLOSURE ***

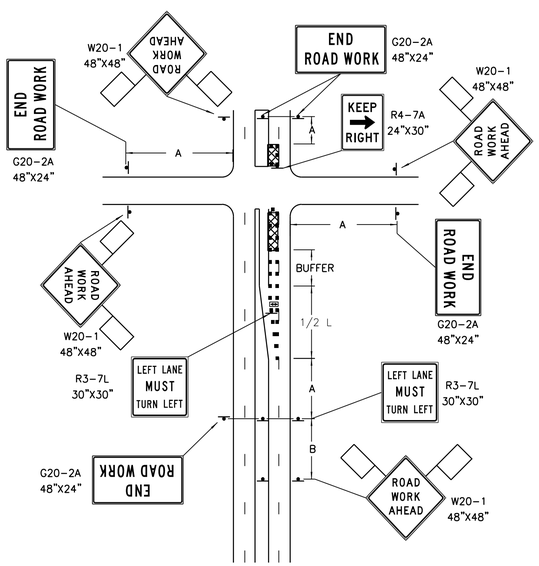


* REMOVE OR COVER THESE SIGNS WHEN THROUGH LANE CLOSURE NOT IN EFFECT.

** USE AS DIRECTED BY THE ENGINEER IN CHARGE OF CONSTRUCTION.

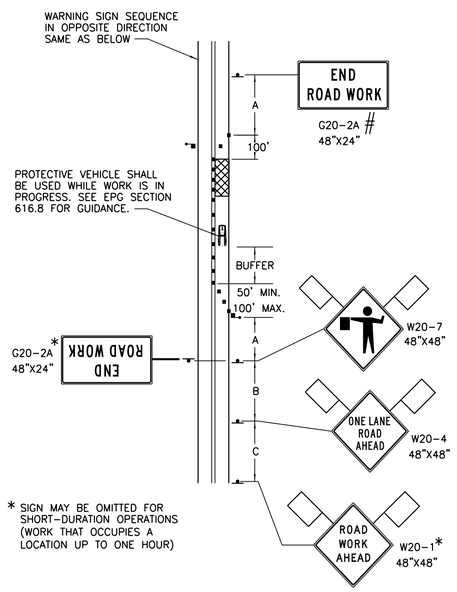
*** OMIT SIGNS SHOWN IN MEDIAN ON UNDIVIDED ROADWAYS

RIGHT-TURN LANE CLOSURE ***



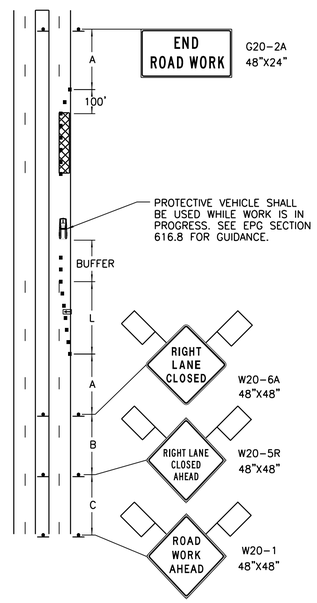
* OMIT SIGNS SHOWN IN MEDIAN ON UNDIVIDED ROADWAYS

LANE CLOSURE ADJACENT *
TO LEFT-TURN BAY



* SIGN MAY BE OMITTED FOR SHORT-DURATION OPERATIONS (WORK THAT OCCUPIES A LOCATION UP TO ONE HOUR)

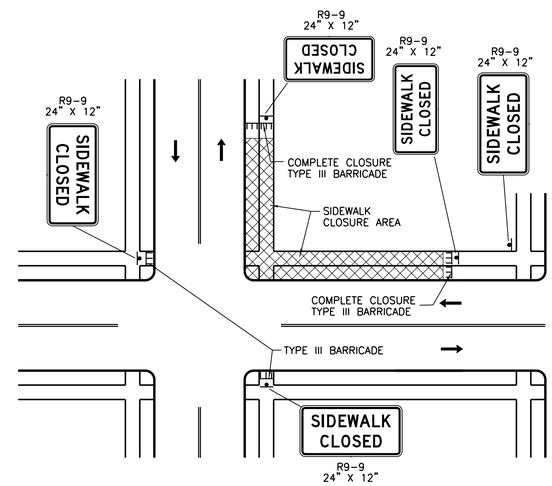
TYPICAL HALF ROADWAY CLOSURE
(FLAGGERS REQUIRED)



* OMIT SIGNS SHOWN IN MEDIAN ON UNDIVIDED ROADWAYS

LANE CLOSURE ON DIVIDED ROADWAY *
(Right Lane Shown)

1. TRAFFIC LANES MAY ONLY BE CLOSED WITH PROPER TRAFFIC CONTROL DEVICES AND FLAGGER CONTROL IF NECESSARY.
2. NO LANES MAY BE CLOSED DURING RUSH HOURS. (7AM TO 8AM AND 4PM TO 5PM.)
3. NO LANES MAY BE CLOSED WITHOUT 24 HOUR NOTICE TO THE CITY AND POLICE DISPATCHER.
4. ALL SIDEWALKS MUST BE CLOSED WITH PROPER SIGNING.



NOTE: IN AREAS WITH EXISTING SIDEWALK, THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS TO AND FROM BUSINESSES/RESIDENCES ALONG AT LEAST ONE SIDE OF ROADWAY THROUGHOUT ALL WORK. THE CONTRACTOR SHALL PREPARE A PEDESTRIAN ACCESS PLAN FOR THE CITY'S REVIEW AND APPROVAL (AT LEAST TWO WEEKS PRIOR TO CLOSING ANY SIDEWALK). THE PLAN IS TO BE IN ACCORDANCE WITH CHAPTER 6D OF THE MUTCD.

TRAFFIC CONTROL DETAILS

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REVISIONS:		
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SHEET TITLE:
TRAFFIC CONTROL DETAILS

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18

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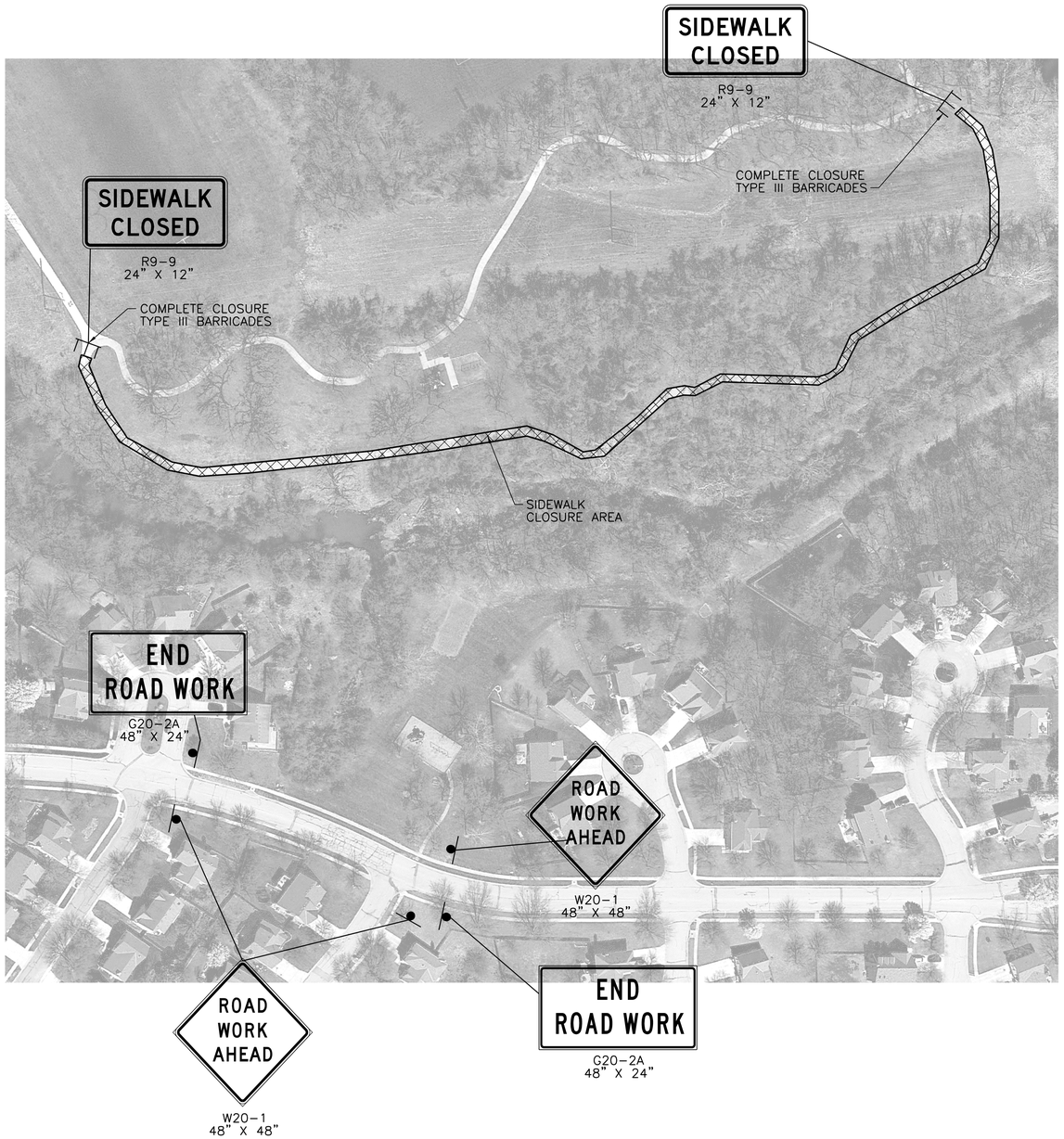
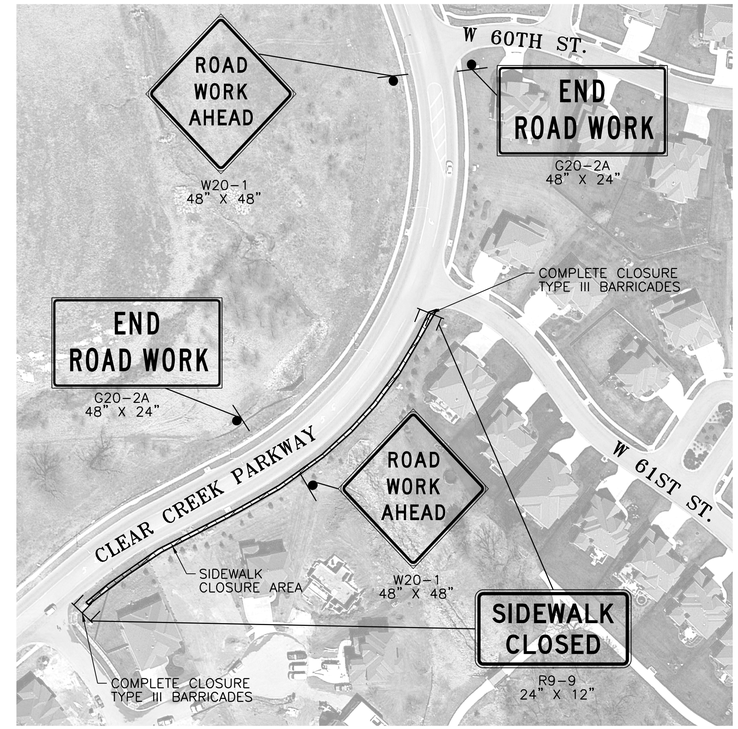
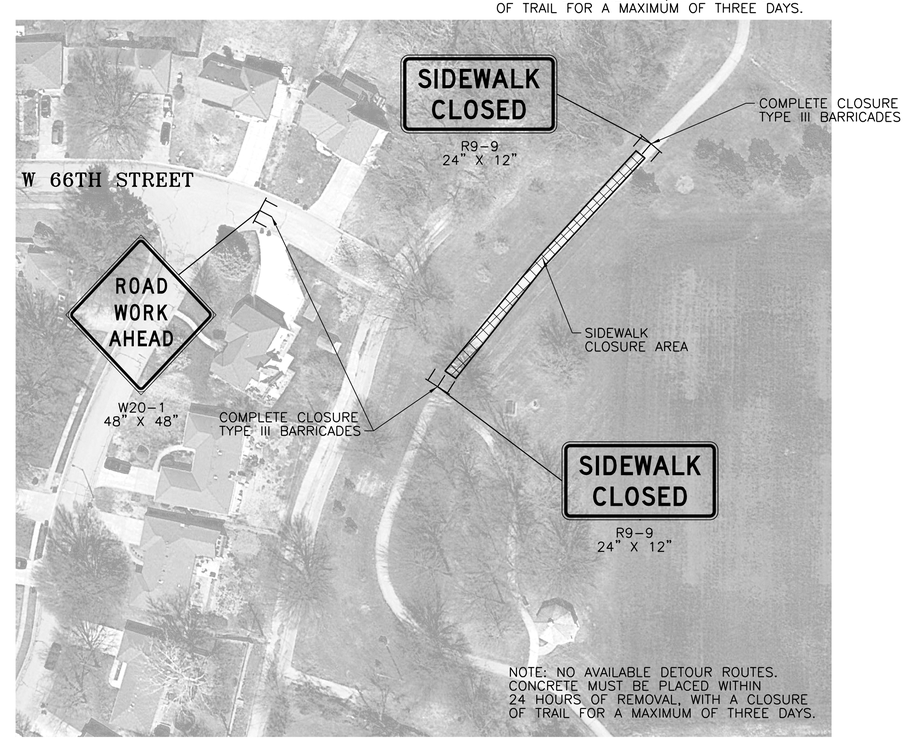




NOTE: NO AVAILABLE DETOUR ROUTES.
CONCRETE MUST BE PLACED WITHIN
24 HOURS OF REMOVAL, WITH A CLOSURE
OF TRAIL FOR A MAXIMUM OF THREE DAYS.



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TRAFFIC CONTROL LAYOUT

SHEET NO.
19
SHEET 19 OF 27

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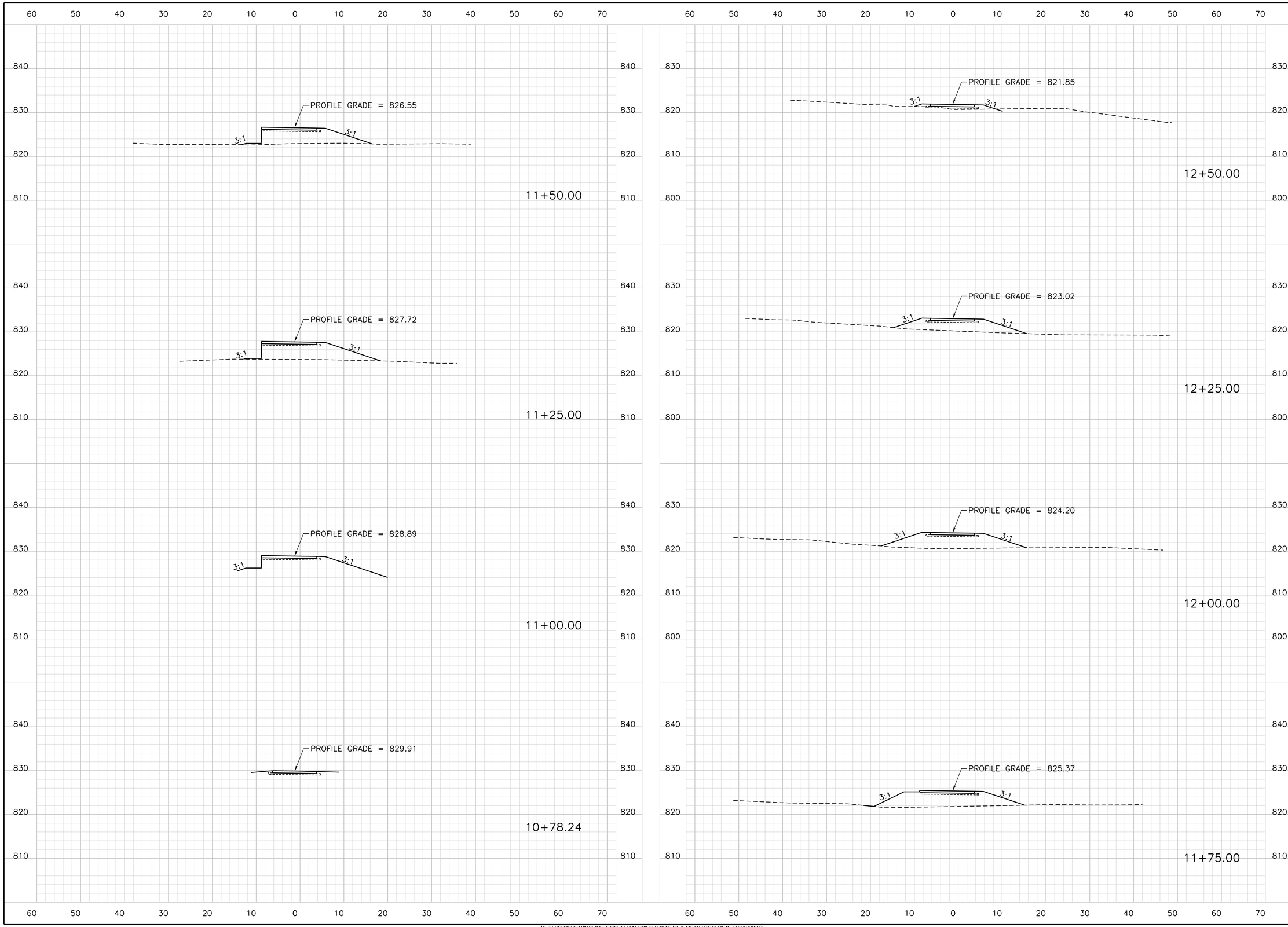

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SHEET TITLE:

CROSS SECTIONS
CC PKWY
STA. 10+78.24
TO STA. 12+50.00

SHEET NO.
20
SHEET 20 OF 27

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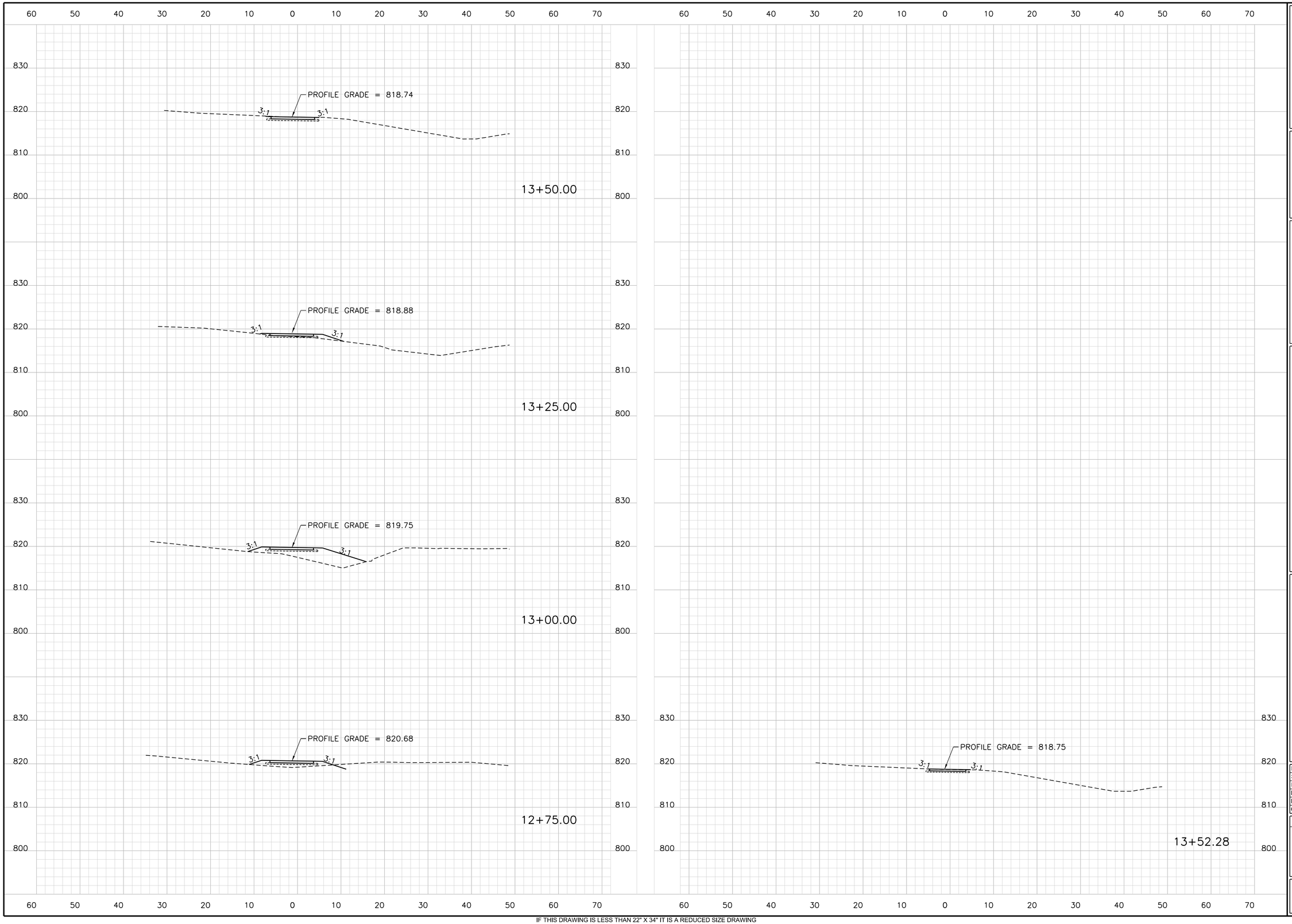

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SHEET TITLE:

CROSS SECTIONS
CC PKWY
STA. 12+75.00
TO STA. 13+52.28

SHEET NO.
21

SHEET 21 OF 27

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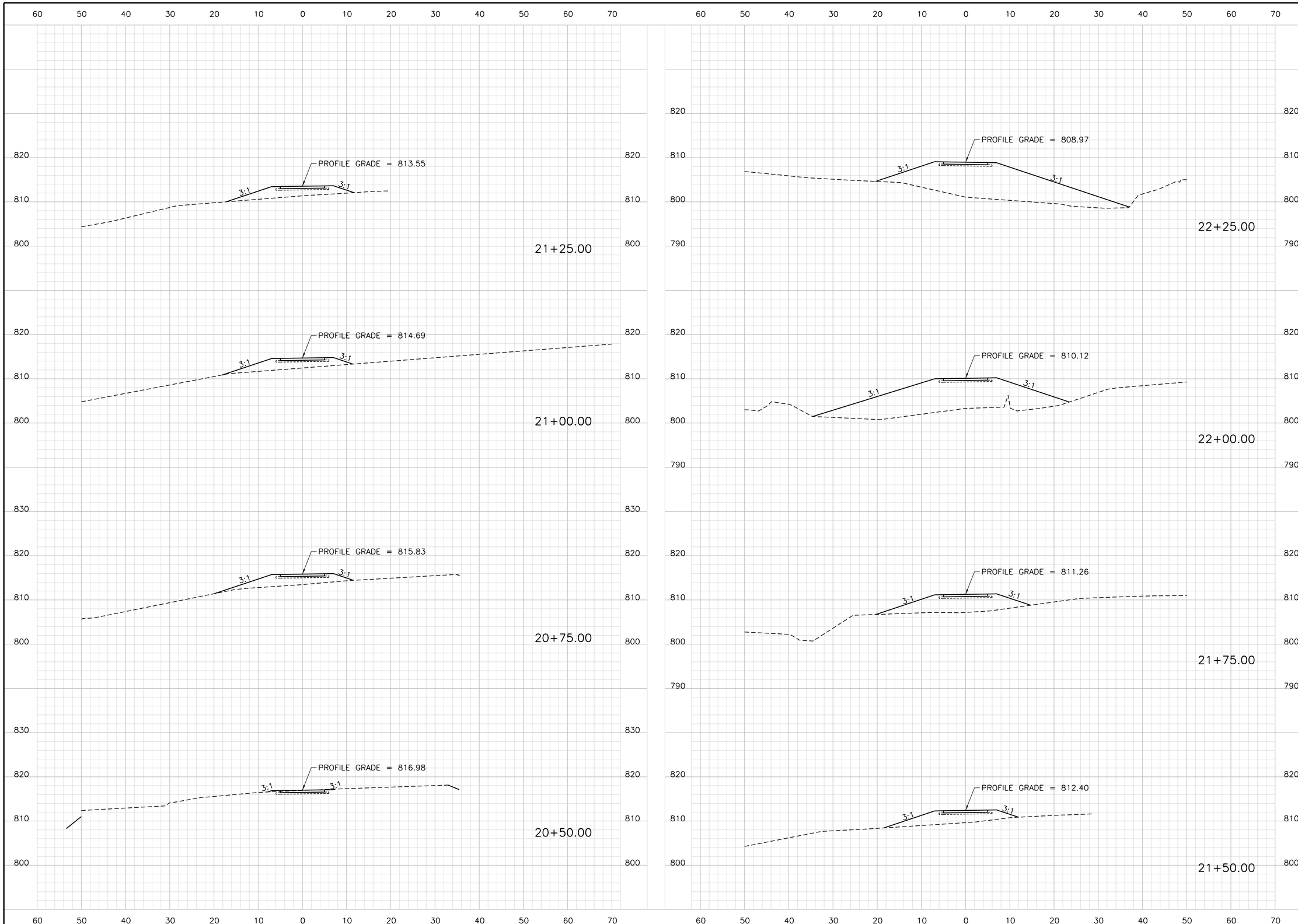

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SHEET TITLE:
CROSS SECTIONS
GAMBLIN PARK
STA. 20+50.00
TO STA. 22+25.00

SHEET NO.
22
SHEET 22 OF 27

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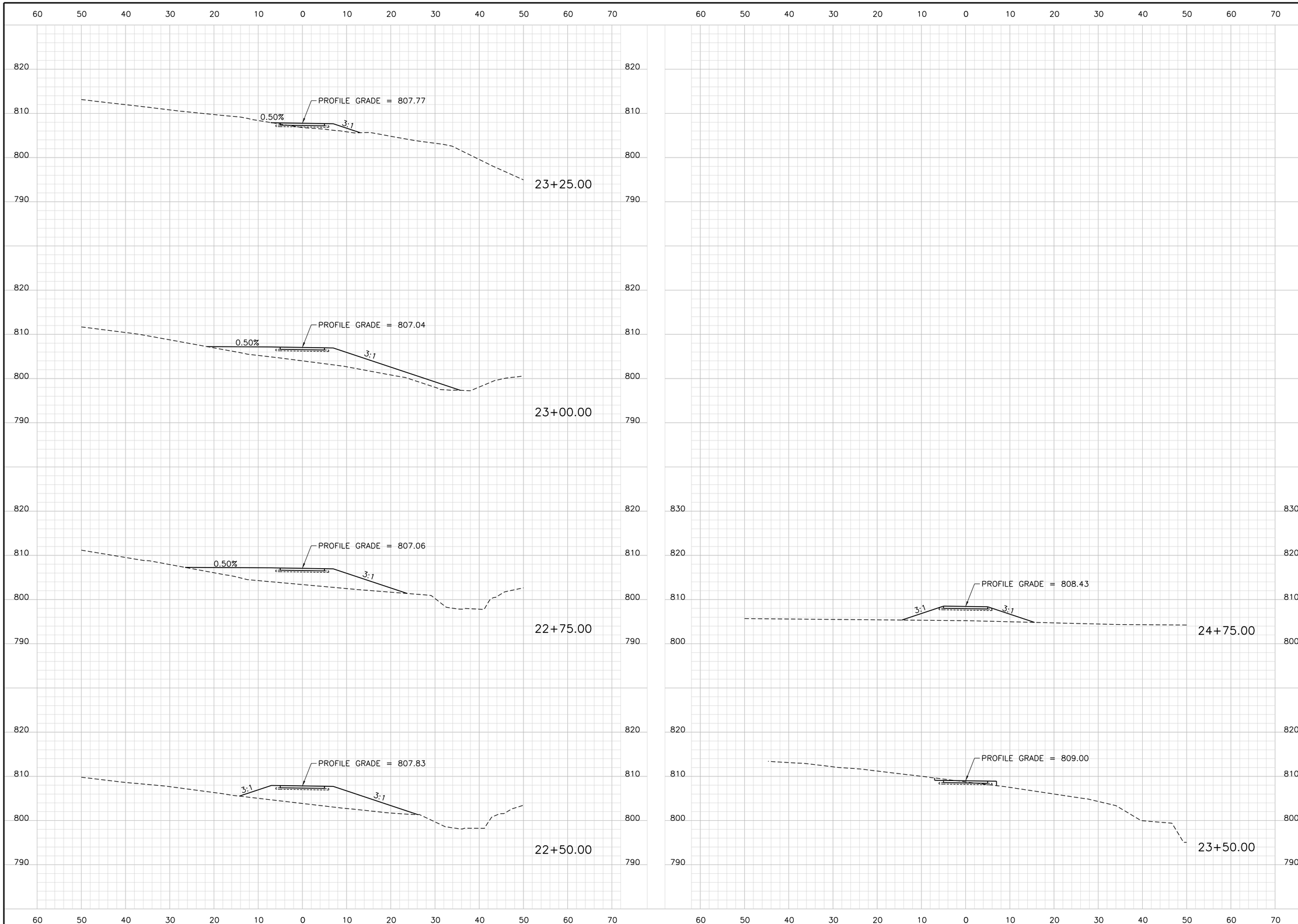

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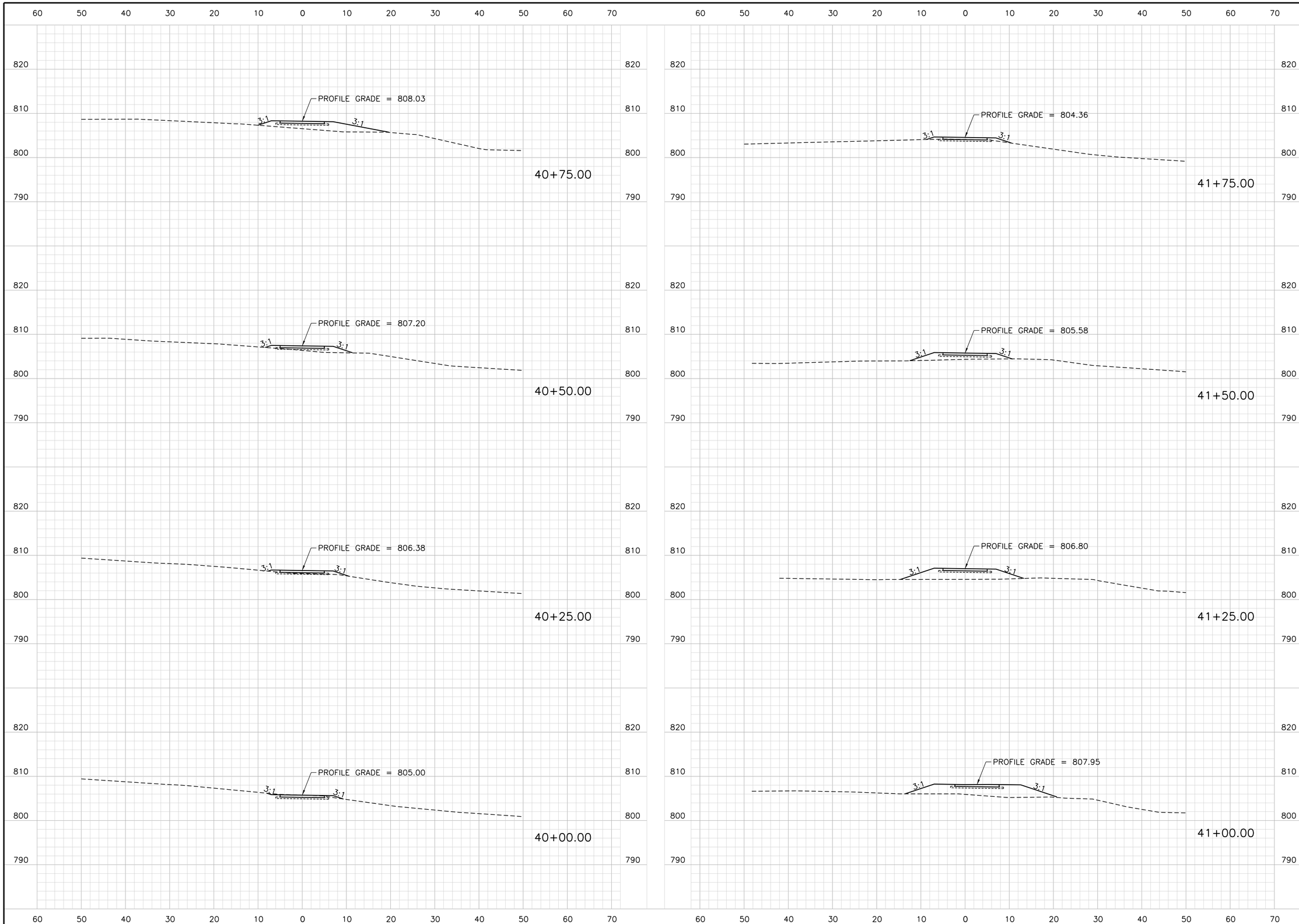
SHEET TITLE:
CROSS SECTIONS
GAMBLIN PARK
STA. 22+50.00
TO STA. 24+75.00

SHEET NO.
23
SHEET 23 OF 27

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

kmbardosi
4/26/2016 - 11:38:46 AM pw:\\hq-pwint01.ae.transyscorp.com:transyscorp-pw1\Documents\Projects\KC101 - Kansas City\P101150313 - Connect Shawnee\303.00 - Road\Cross Sections\C-XSSHTS01-GAMBLINPARK



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SUITE 400
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PHONE: (816) 329-8600

CONSULTANTS:

CONNECT SHAWNEE

SHAWNEE, KANSAS

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: P101150313
SCALE: 1" = 10'
DATE: 4/26/2016
DESIGNED BY: KMB
DRAWN BY: KMB
CHECKED BY: JWZ

SHEET TITLE:

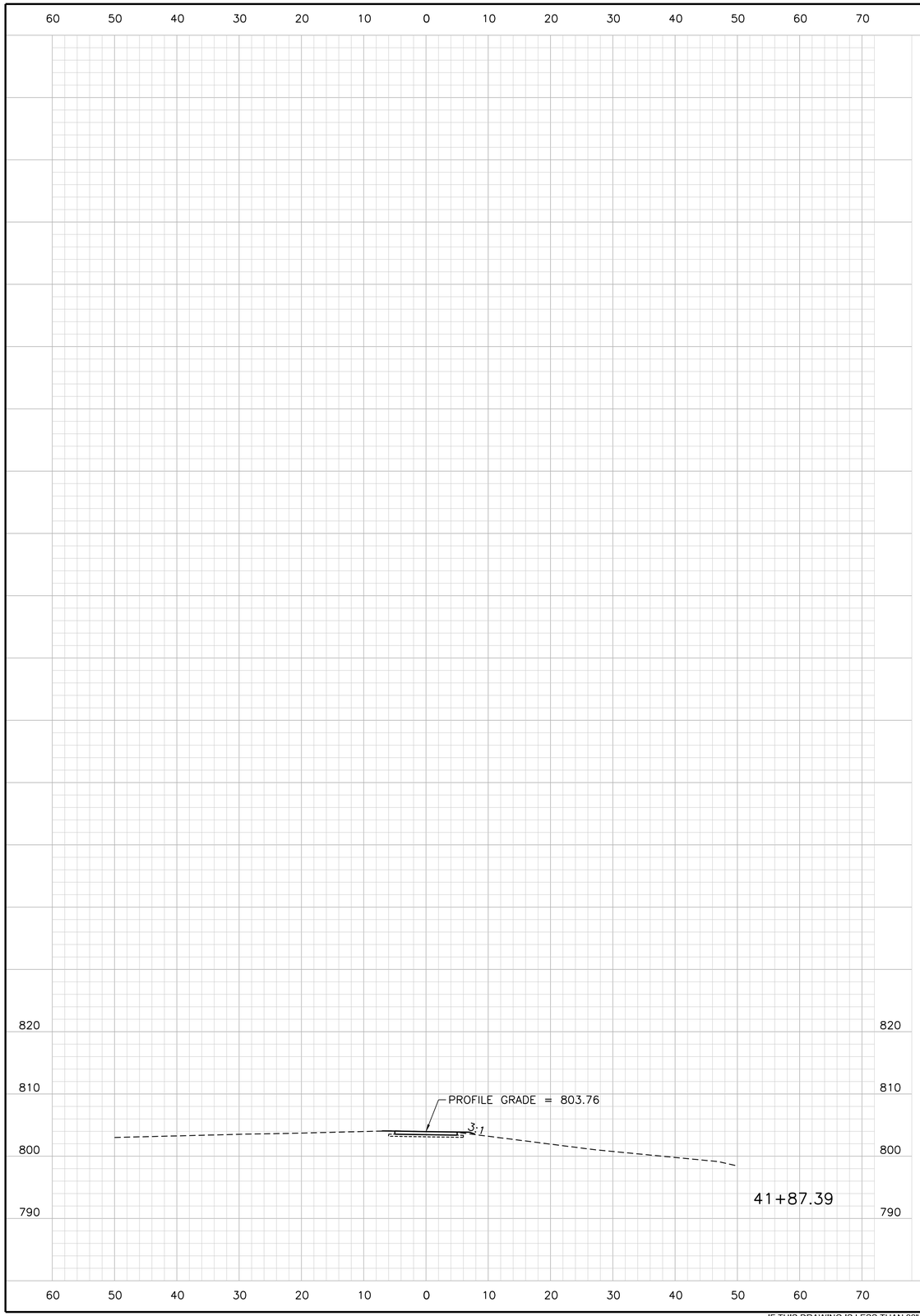
CROSS SECTIONS
GAMBLIN TIE-IN
STA. 40+00.00
TO STA. 41+75.00

SHEET NO.

24

SHEET 24 OF 27

kmbardosi
4/26/2016 - 11:38:47 AM pw:\\tspcpwint01.ae.transyscorp.com:transyscorp-pw1\Documents\Projects\KC101 - Kansas City\P101150313 - Connect Shawnee\303.00 - Road\Cross Sections\C-XSHTS01-GAMBLINTIEIN



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CONSULTANTS:

CONNECT SHAWNEE

SHAWNEE, KANSAS

REVISIONS:

MARK	DATE	DESCRIPTION

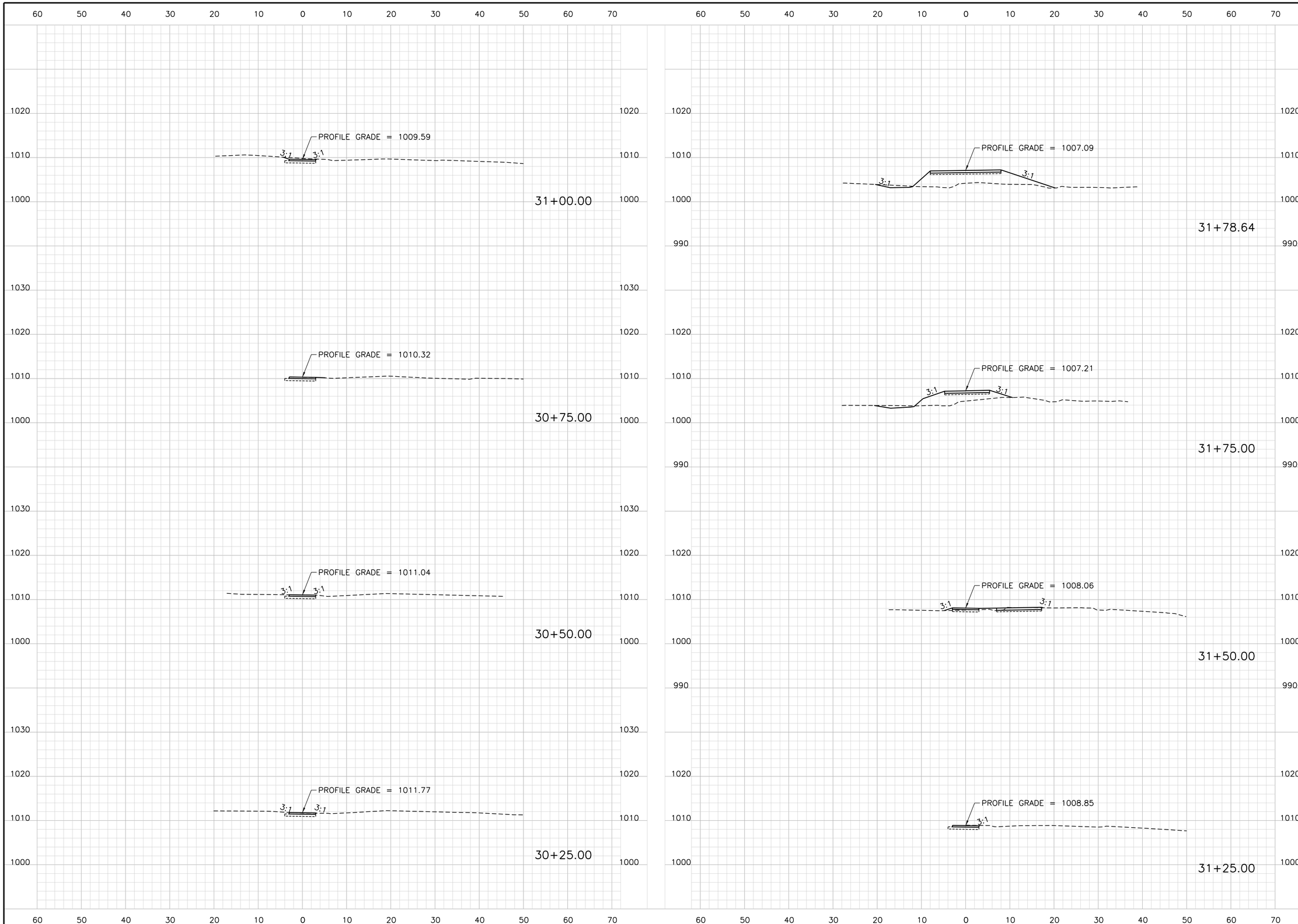
PROJ NO: P10150313
SCALE: 1" = 10'
DATE: 4/26/2016
DESIGNED BY: KMB
DRAWN BY: KMB
CHECKED BY: JWZ

SHEET TITLE:

CROSS SECTIONS
GAMBLIN TIE-IN
STA. 41+87.39
TO STA. 41+87.39

SHEET NO.
25
SHEET 25 OF 27

kmbardosi - 11:38:47 AM pw:\\hq-pwint01.ae.transyscorp.com:transyscorp-pw1\Documents\Projects\KC101 - Kansas City\P101150313 - Connect Shawnee\303.00 - Road\Cross Sections\C-XSHTS01-GAMBLINTIEIN
4/26/2016



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CONSULTANTS:

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SHAWNEE, KANSAS

REVISIONS:		
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PROJ NO: P101150313
SCALE: 1" = 10'
DATE: 4/26/2016
DESIGNED BY: KMB
DRAWN BY: KMB
CHECKED BY: JWZ

SHEET TITLE:

CROSS SECTIONS
GUM SPRINGS SW
STA. 30+25.00
TO STA. 31+78.64

SHEET NO.
26
SHEET 26 OF 27

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CONSULTANTS:

CONNECT SHAWNEE

SHAWNEE, KANSAS

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: P101150313
SCALE: 1" = 10'
DATE: 4/26/2016
DESIGNED BY: KMB
DRAWN BY: KMB
CHECKED BY: JWZ

SHEET TITLE:
CROSS SECTIONS
GUM SPRINGS TR.
STA. 33+25.00
TO STA. 34+25.00

SHEET NO.
27
SHEET 27 OF 27

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4/26/2016