

BROADWAY BLVD. DESIGN DESIGNATION

A.D.T. - 2014	= 23,000
A.D.T. - 2034	= 27,000
D.H.V.	= 2,700
T	= 10%
DESIGN SPEED	= 35 M.P.H.
POSTED SPEED LIMIT	= 35 M.P.H.
FUNCTIONAL CLASSIFICATION - URBAN ARTERIAL	

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY AND RECORDS. THE CITY DOES NOT WARRANT THE LOCATIONS OF THESE FACILITIES AS PRECISE. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND PRECISE LOCATION OF ALL FACILITIES AND TO AVOID DAMAGE. SEE PROJECT MANUAL FOR A LIST OF UTILITY COMPANIES ON OR WITHIN THE VICINITY OF THE PROJECT LIMITS.

EMERGENCY UTILITY SERVICE NUMBERS

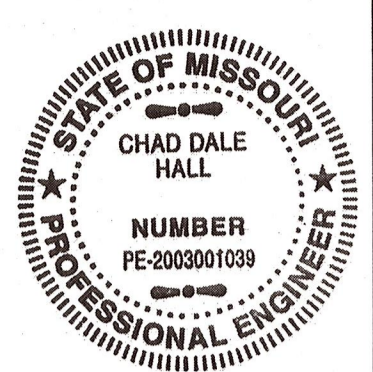
UTILITY MARKING	800-DIG-RITE
AT&T	800-252-1133
KCMO - TRAFFIC SIGNALS	816-513-9314
KCMO - STREET & TRAFFIC DIVISION	816-513-9300
KCMO - WATER SERVICES DEPARTMENT	816-513-0209
KCP&L	800-303-0357 OR 816-471-KCPL
MCI/WESTERN UNION	800-MCI-WORK
MISSOURI GAS ENERGY	800-582-0000
MISSOURI PUBLIC SERVICE COMPANY	816-353-5000 OR 737-7821
SOUTHWESTERN BELL TELEPHONE COMPANY	800-870-8390
SPRINT	800-880-2822
TIME WARNER CABLE	816-358-8833

**CITY OF KANSAS CITY, MISSOURI
DEPARTMENT OF PUBLIC WORKS
DEPARTMENT OF PARKS AND RECREATION
FINAL PLANS
BROADWAY BRIDGE OVER 30TH STREET
JACKSON COUNTY**

SEC/SUR S18 TWP T49N RGE R33W

INDEX OF SHEETS

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THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED

ROUTE	STATE
BRDWAY	MO
DISTRICT	SHEET NO.
KC	G01
COUNTY	
JACKSON	
JOB NO.	
89005561	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

LENGTH OF PROJECT

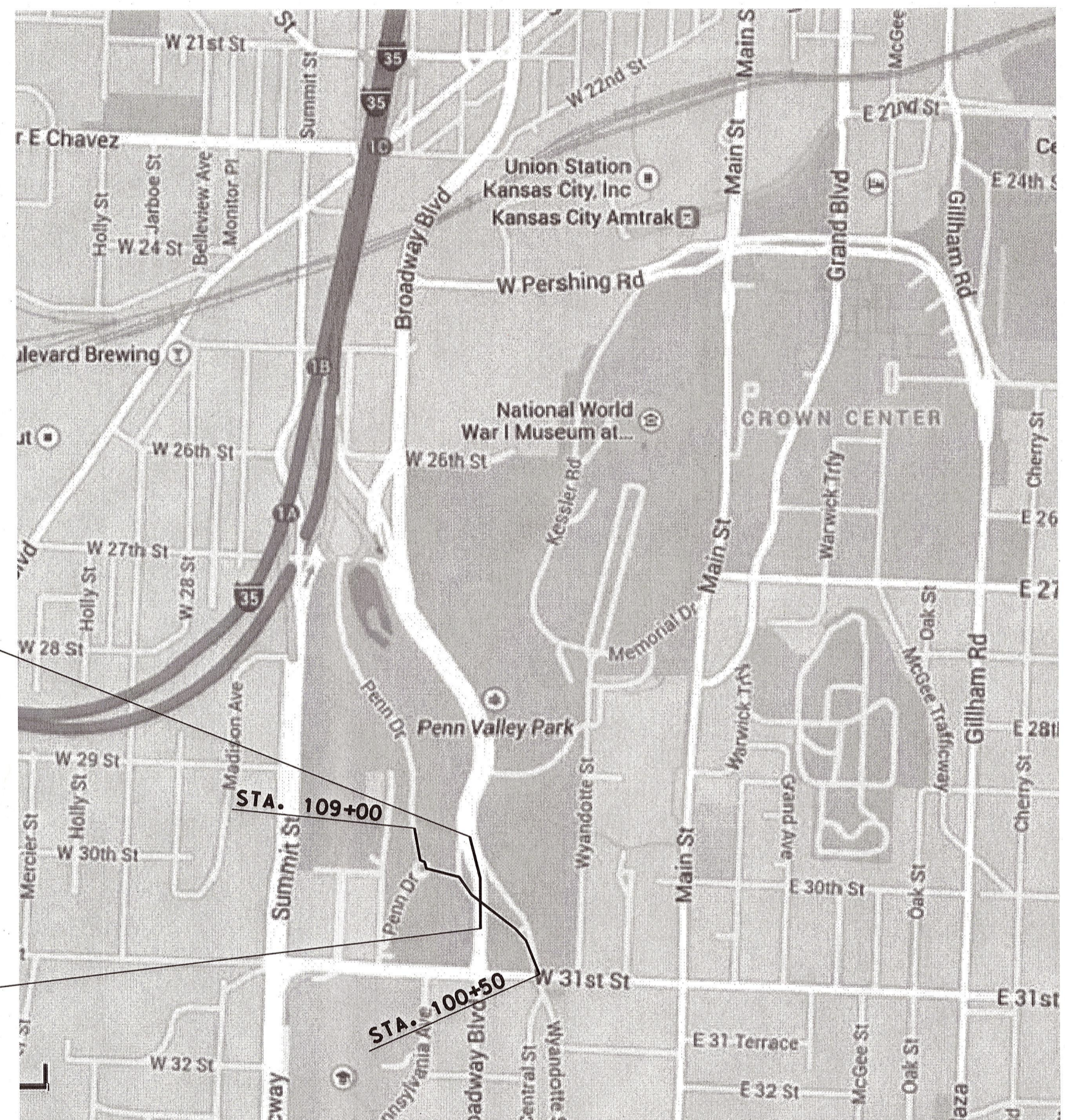
BEGINNING OF PROJECT (BROADWAY BLVD.)	STA. 10+00
END OF PROJECT	STA. 12+37.10
APPARENT LENGTH	237.10 FEET
EQUATIONS AND EXCEPTIONS:	NONE
BEGINNING OF PROJECT (30TH STREET)	STA. 100+50
END OF PROJECT	STA. 109+00
APPARENT LENGTH	850.00 FEET
EQUATIONS AND EXCEPTIONS:	NONE

THIS PROJECT HAS BEEN DESIGNED, AND THESE PLANS PREPARED, TO MEET OR EXCEED THE DESIGN CRITERIA OF APWA AND KANSAS CITY, MISSOURI, EXCEPT AS NOTED IN PROJECT VARIANCES.

PLANS PREPARED BY:

HDR HDR Engineering, Inc.
4435 Main Street
Suite 1000
Kansas City, MO 64111-1856
816-360-2700
Certificate of Authority: 000856

TREKK DESIGN GROUP, LLC
1441 E 104th St, Suite 105
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300



**LOCATION MAP
NOT TO SCALE**



KANSAS CITY, MISSOURI
BOARD OF PARKS AND RECREATION COMMISSIONERS

- JEAN PAUL CHAURAND - PRESIDENT
- ALLEN DILLINGHAM - COMMISSIONER
- AMBER HACKETT - COMMISSIONER
- DAVID MECKLENBURG - COMMISSIONER
- MARY JANE JUDY - COMMISSIONER
- MARK L. McHENRY - DIRECTOR



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE CITY AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE CITY "AS-IS" AND THE CITY EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE CITY SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.

" I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED, AND THESE PLANS PREPARED, TO MEET OR EXCEED THE DESIGN CRITERIA OF KANSAS CITY, MISSOURI, IN CURRENT USAGE EXCEPT AS INDICATED BELOW. "

EXCEPTIONS:
VERTICAL CLEARANCE STANDARD - 14'-0" (15'-0" preferred)
VERTICAL CLEARANCE PROVIDED (EXISTING) - 13'-3" (EB)
13'-3" (WB)

ENGINEER:
CHAD HALL, P.E.

Chad D. Hall 4-29-15
CHAD D. HALL, P.E.

Chad W. Zipp 04/29/15
ASSISTANT DIRECTOR ENGINEERING, PLANNING, DESIGN

[Signature] 4-29-15
DIRECTOR OF PARKS AND RECREATION DATE

[Signature] 4/30/15
CITY ENGINEER DATE

[Signature] 4/30/2015
DIRECTOR OF PUBLIC WORKS DATE

JOB NO. KCMO * 89005561 C.D. NO. _____
SHEET G01 OF _____ FILE NO. _____

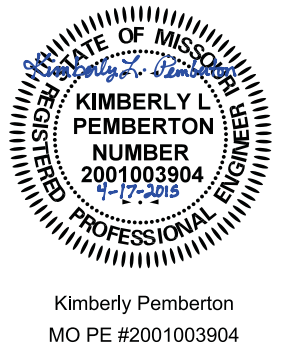
DESCRIPTION

DATE

CITY OF KANSAS CITY, MISSOURI
414 E. 12TH STREET, 19TH FLOOR
KANSAS CITY, MO 64151
P: (816) 513-2600
F: (816) 513-2572
www.kcmo.org



HDR HDR Engineering, Inc.
4435 Main Street
Suite 1000
Kansas City, MO 64111-1856
816-360-2700
Certificate of Authority: 000856



Kimberly Pemberton
MO PE #2001003904

DATE PREPARED
4/17/2015

ROUTE STATE
BRDWAY MO

DISTRICT SHEET NO.
KC G02

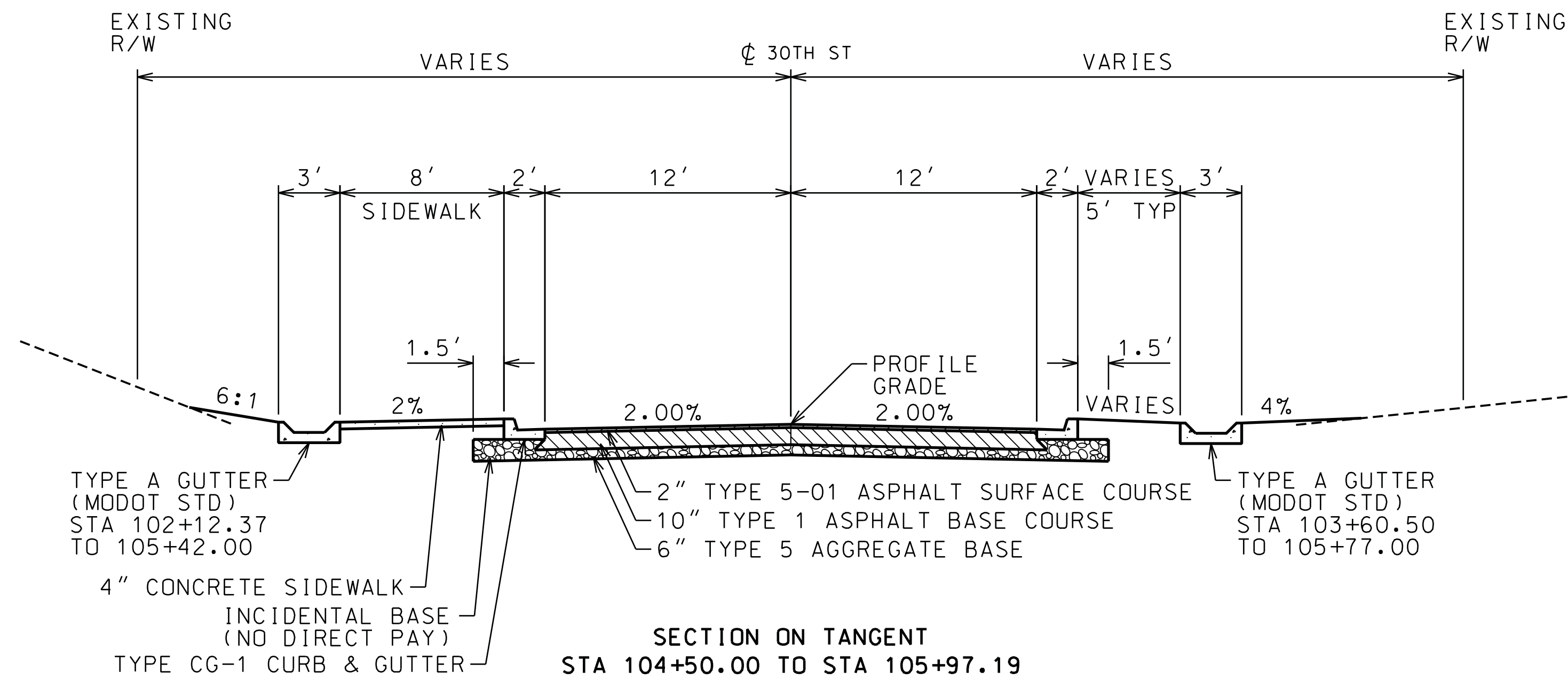
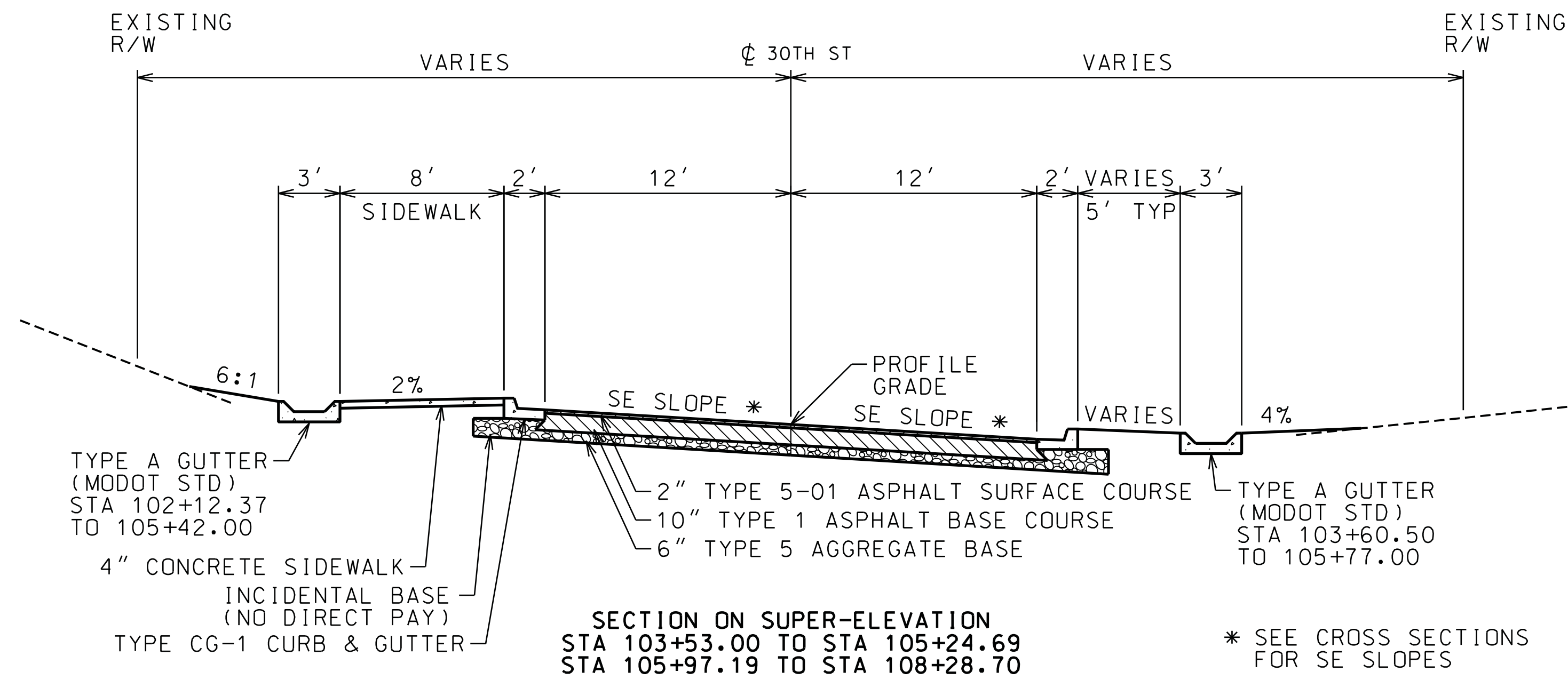
COUNTY
JACKSON

JOB NO.
89005561

CONTRACT ID.

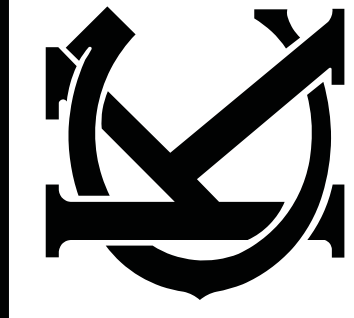
PROJECT NO.

BRIDGE NO.



DATE	DESCRIPTION

CITY OF KANSAS CITY, MISSOURI
414 E. 12TH STREET, 19TH FLOOR
KANSAS CITY, MO 64151
P: (816) 513-2600
F: (816) 513-2572
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TREK
1441 East 104th St, Suite 105
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
www.trekdesigngroup.com
Missouri Cert. of
Authority 2002010300

HDR HDR Engineering, Inc.
4435 Main Street
Suite 1000
Kansas City, MO 64111-1856
816-366-2700
Certificate of Authority: 000856

TYPICAL SECTION
SHEET 1 OF 1

SIGN ASSEMBLIES								
SHEET	STA.	LOCATION	SIGN ASSEMBLY W/POST (EA)	STOP SIGN (EA)	ALL WAY SIGN (EA)	DO NOT ENTER SIGN (EA)	STOP SIGN AHEAD SIGN (EA)	30TH ST/PENN VALLEY DRIVE SIGN W/ARROWS (EA)
G20	108+50	30TH	1	1	1			
G20	108+45	30TH	1	1	1			
G20	108+86	30TH	1	1	1	1		
G20	100+50	30TH	1				1	
G20	108+66	30TH	1	1	1	1		
G20	108+77	30TH	1				1	
G21	102+25	30TH	2					1
TOTAL			8	4	4	2	2	1

CONCRETE CURB & GUTTER, CONCRETE GUTTER AND CONCRETE MEDIAN				APWA TYPE CG-1	TYPE A GUTTER	3" CONC MEDIAN
SHEET	STATION	STATION	LOCATION	(LF)	(LF)	(SY)
G05	108+83.50	108+91.91	30TH		10	
G05-G06	102+12.37	105+37.00	30TH		304	
G05-G06	102+22.19	108+10.55	30TH	631		
G06	102+18.30	103+01.79	30TH	103		
G06	103+40.13	103+52.75	30TH	84		
G05-G06	103+52.75	108+82.44	30TH	512		
G05-G06	103+60.50	105+52.00	30TH		192	
G05	108+40.78	108+82.32	30TH			55
G05	105+58.00	105+89.00	30TH		17	
TOTAL				1330	523	55

PERMANENT PAVEMENT MARKING			THERMOPLASTIC				EMBEDDED PREFORMED TYPE 1 PAVEMENT MARKING TAPE		REMARKS
SHEET	STATION TO STATION	LOCATION	4" SOLID YELLOW (LF)	4" SOLID WHITE (LF)	8" SOLID WHITE (LF)	12" SOLID WHITE (LF)	24" SOLID WHITE CROSS WALK (LF)	24" STOP BAR (LF)	
G20-G21	100+50	108+38	30TH	1584.0					
G20	108+17	109+00	30TH	35.0					
G20	108+34		30TH					18.0	
G20	108+59		30TH					12.0	
G20	108+54		30TH				80.0		
G20	108+70		30TH					12.0	
G20	109+02	108+59	30TH	314.0					
G21	101+50	102+20	30TH			72.0			
G21	101+50	102+78	30TH			143.0	62.0		
G22	10+01	11+86	30TH		185.0				
G22	10+72	11+31	30TH		15.0				
G22	10+81	11+40	30TH	59.0					
G22	10+87	11+46	30TH	59.0					
G22	10+96	11+55	30TH		15.0				
G22	10+61	12+39	30TH		178.0				
TOTAL				2051.0	393.0	215.0	62.0	80.0	42.0

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION	SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS															
W01-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)	W020-5g	48X48	16.00					RIGHT/CENTER/LEFT TWO LANES CLOSED AHEAD
W01-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)	W020-6g	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED
W01-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)	W020-7g	48X48	16.00					FLAGGER (SYMBOL) WITH FLAGS
W01-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)	W021-2	36X36	9.00					FRESH OIL
W01-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)	W021-5b	48X48	16.00					SHOULDER WORK AHEAD
W01-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)	W022-1	48X48	16.00					BLASTING ZONE AHEAD
W01-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)	W022-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
W01-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)	W022-3	42X36	10.50					END BLASTING ZONE
W01-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)	W022-6e	21X15	2.19					WET PAINT (ARROW PIVOTS)
W01-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)	GUIDE SIGNS							
W01-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)	SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
W01-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)	E05-1	36X48	12.00					GORE EXIT
W01-6	48X24	8.00					HORIZONTAL ARROW (SYMBOL)	E05-2	48X36	12.00					EXIT OPEN
W01-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)	E05-2a	48X36	12.00					EXIT CLOSED
W01-7	48X24	8.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	G020-1	60X24	10.00					ROAD WORK NEXT XX MILES
W01-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)	G020-2	48X24	8.00					END ROAD WORK
W01-8	18X24	3.00					CHEVRON (SYMBOL)	M04-10R	24X12	2.00	1	2			DETOUR RIGHT ARROW
W01-8a	36X48	12.00					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	M04-10L	24X12	2.00					DETOUR LEFT ARROW
W03-1a	48X48	16.00					STOP AHEAD (SYMBOL)	M04-8	24X12	2.00	13	26			DETOUR
W03-2a	48X48	16.00					YIELD AHEAD (SYMBOL)	M04-8a	24X18	3.00	2	6			END DETOUR
W03-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)	M04-9L	48X36	12.00	8	96			DETOUR (LEFT ARROW)
W03-4	48X48	16.00					BE PREPARED TO STOP	M04-9R	48X36	12.00	17	204			DETOUR (RIGHT ARROW)
W03-5(XX)	48X48	16.00					SPEED LIMIT XX AHEAD (SYMBOL)	M3-1	24X12	2.00	1	2			NORTH
W04-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)	M3-3	24X12	2.00	2	4			SOUTH
W04-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)	M6-1R	21X15	2.19	2	4.38			RIGHT ARROW
W05-1	48X48	16.00					ROAD/BRIDGE/RAMP NARROWS	M6-1L	21X15	2.19	1	2.19			LEFT ARROW
W05-3	48X48	16.00					ONE LANE BRIDGE	M6-3	21X15	2.19	14	30.66			STRAIGHT ARROW
W05-5	48X48	16.00					NARROW LANES	M6-4	21X15	2.19					DOUBLE ARROW
W06-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)	REGULATORY SIGNS							
W06-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)	R1-1	48X48	13.25	2	26.50			STOP
W06-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)	R1-2	48 TRI.	6.93					YIELD
W07-3a	30X24	5.00					NEXT XX MILES (PLAQUE)	R1-2g	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
W08-1	48X48	16.00					BUMP	R1-3	20X9	1.25					X-WAY (PLAQUE)
W08-2	48X48	16.00					DIP	R2-1	36X48	12.00					SPEED LIMIT XX
W08-3	48X48	16.00					PAVEMENT ENDS	R3-1	36X36	9.00	1	9			NO RIGHT TURN (SYMBOL)
W08-4	48X48	16.00					SOFT SHOULDER	R3-2	36X36	9.00	5	45			NO LEFT TURN (SYMBOL)
W08-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)	R3-3	36X36	9.00					NO TURNS
W08-6	48X48	16.00					TRUCK CROSSING WITH FLAGS	R3-4	48X48	16.00					NO U-TURN (SYMBOL)
W08-6c	48X48	16.00					TRUCK ENTRANCE	R3-7L	30X30	6.25	1	6.25			LEFT LANE MUST TURN LEFT
W08-7	36X36	9.00					LOOSE GRAVEL	R3-7R	30X30	6.25	1	6.25			RIGHT LANE MUST TURN RIGHT
W08-9	48X48	16.00					LOW SHOULDER	R4-1	36X48	12.00					DO NOT PASS
W08-9a	48X48	16.00					SHOULDER DROP-OFF	R4-2	36X48	12.00					PASS WITH CARE
W08-11	48X48	16.00					UNEVEN LANES	R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
W08-12	36X36	9.00					NO CENTER STRIPE	R4-7g	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
W10-1	42 RND.	9.62					RAILROAD CROSSING	R5-1	30X30	6.25					DO NOT ENTER
W12-1	24X24	4.00	1	4			DOUBLE DOWN ARROW (SYMBOL)	R5-1g	36X24	6.00					WRONG WAY
W12-2	48X48	16.00					LOW CLEARANCE (SYMBOL)	R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
W12-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)	R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
W12-3a,b	144X24	24.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)	R6-2L	24X30	5.00					ONE WAY (LEFT)
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD	R6-2R	24X30	5.00					ONE WAY (RIGHT)
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD	R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
W013-1	30X30	6.25					ADVISORY SPEED (PLAQUE)	R11-2	48X30	10.00	4	40			ROAD CLOSED
W016-2	30X24	5.00					XXX FEET (PLAQUE)	R11-3a	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
W16-9P	30X18	3.75	1	3.75			AHEAD	S4-4	36X15	3.75					WHEN FLASHING
W4-2R	36X36	9.00	1	9			LANE DROP	CONST-6-48	48X48	16.00					MODOT CONSTRUCTION SIGN
W020-2	48X48	16.00					DETOUR AHEAD	R9-9	36X24	6.00	5	30			SIDEWALK CLOSED
W020-3	36X36	9.00	3	27			ROAD CLOSED AHEAD	MISCELLANEOUS SIGNS							
W020-4	48X48	16.00					ONE LANE ROAD AHEAD	SPECIAL	36X12	3.00	6	18			OFF-BROADWAY THEATRE
W020-5	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED AHEAD	SPECIAL	48X18	6.00	2	12			P.VALLEY DR CLOSED B-WAY USE ALT. RTE
616-10.05 CONSTRUCTION SIGNS TOTAL 758															
616-10.10 RELOCATED SIGNS TOTAL															
NOTE: CHANGEABLE MESSAGE SIGNS TO BE INSTALLED AS DIRECTED BY THE ENGINEER															
NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNING															

ITEM NUMBER	TOTAL QTY	DESCRIPTION
612-20.08		IMPACT ATTENUATOR (8 SAND BARRELS)
612-20.09		IMPACT ATTENUATOR (9 SAND BARRELS)
612-20.10		IMPACT ATTENUATOR (10 SAND BARRELS)
612-20.12		IMPACT ATTENUATOR (12 SAND BARRELS)
612-20.14		IMPACT ATTENUATOR (14 SAND BARRELS)
612-20.17		IMPACT ATTENUATOR (17 SAND BARRELS)
612-20.19		IMPACT ATTENUATOR (19 SAND BARRELS)
612-20.20		REPLACEMENT SAND BARREL
612-20.30		IMPACT ATTENUATOR ARRAY (RELOCATION)
612-30.00A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
616-10.07		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
616-10.08		ADVANCED WARNING RAIL SYSTEM
616-10.09	2	FLAG ASSEMBLY
616-10.20		CHANNELIZER (DRUM-LIKE)
616-10.22		CHANNELIZER (CONES)
616-10.24		CHANNELIZER (TRIM LINE) WITH LIGHT
616-10.25	69	CHANNELIZER (TRIM LINE)
616-10.26		CHANNELIZER (VERTICAL PANEL)
616-10.27		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
616-10.28		CHANNELIZER
616-10.30		TYPE III MOVEABLE BARRICADE
616-10.31	16	TYPE III MOVEABLE BARRICADE WITH LIGHT
616-10.33		DIRECTION INDICATOR BARRICADE
616-10.34		DIRECTION INDICATOR BARRICADE WITH LIGHT
616-10.40		FLASHING ARROW PANEL
616-10.47		TYPE III OBJECT MARKER
616-10.51		WARNING LIGHT, TYPE A
616-10.52		WARNING LIGHT, TYPE B
616-10.53		WARNING LIGHT, TYPE C
616-10.70		TUBULAR MARKER
616-10.95		RADAR SPEED ADVISORY SYSTEM
616-10.96		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
616-10.98		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/RETAINED
616-11.00		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
616-11.20		INSTALLING "DRIVE SMART", 48 IN. X 48 IN. SIGN
616-11.33A		INSTALLING "POINT OF PRESENCE", 96 IN. X 48 IN. SIGN
616-11.34		INSTALLING "POINT OF PRESENCE", 36 IN. X 48 IN. SIGN
617-36.00D		CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
617-36.02B		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY TRAFFIC BARRIER
617-40.00A		TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
617-50.10A		RELOCATING TEMPORARY TRAFFIC BARRIER
617-60.00B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
617-70.00B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
901-94.00		TEMPORARY LIGHTING
902-94.00		TEMPORARY TRAFFIC SIGNALS
902-94.01		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
902-99.02		OPTIONAL TRAFFIC SIGNAL DETECTORS

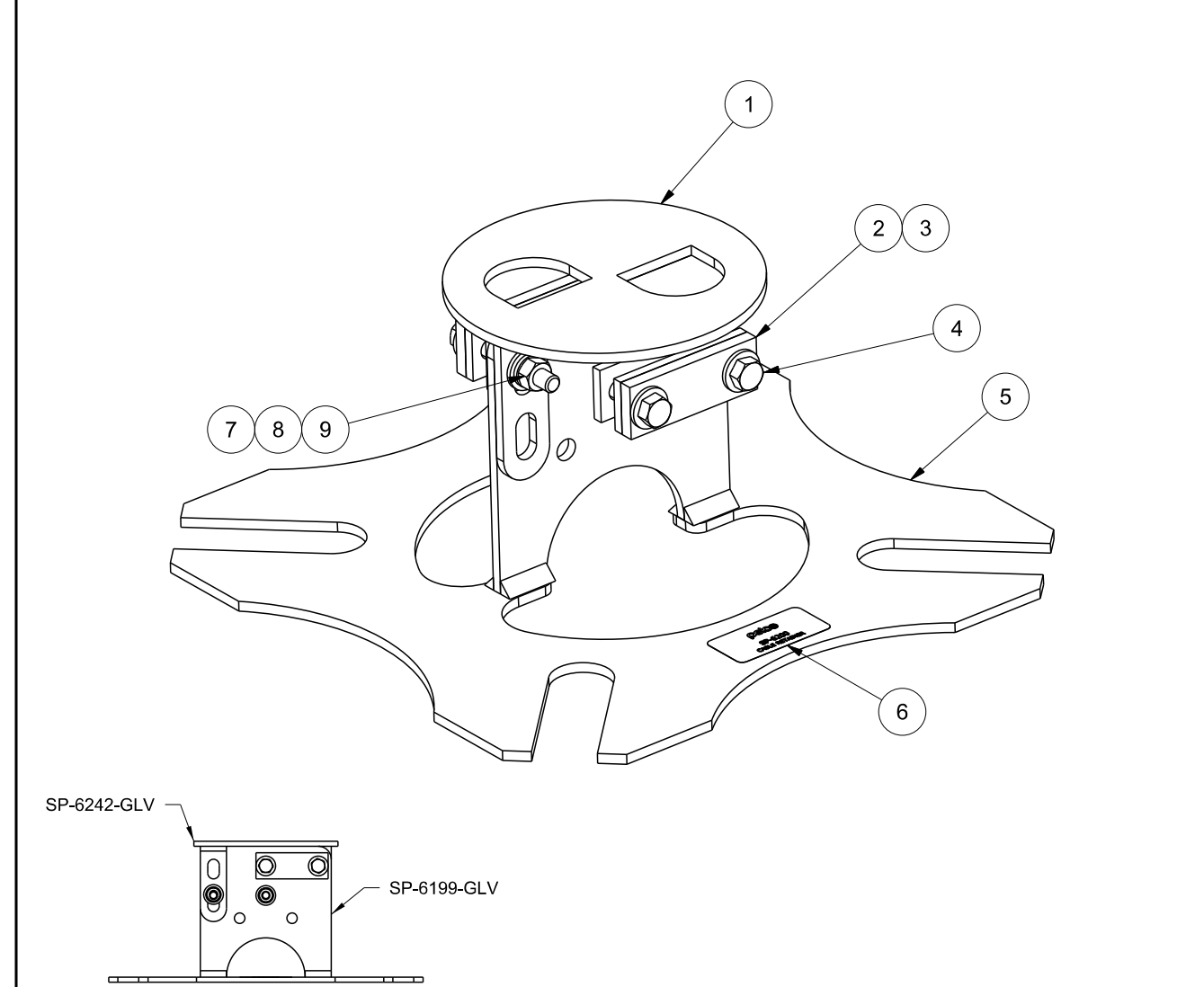
Detailled March 2015
Checked March 2015

QUANTITIES



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
DATE PREPARED: 5/14/2015
ROUTE: BRDWAY STATE: MO
DISTRICT: KC SHEET NO.: G04
COUNTY: JACKSON
JOB NO.: 89005561
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

REF: _____ TITLE: _____ PART NO.: _____

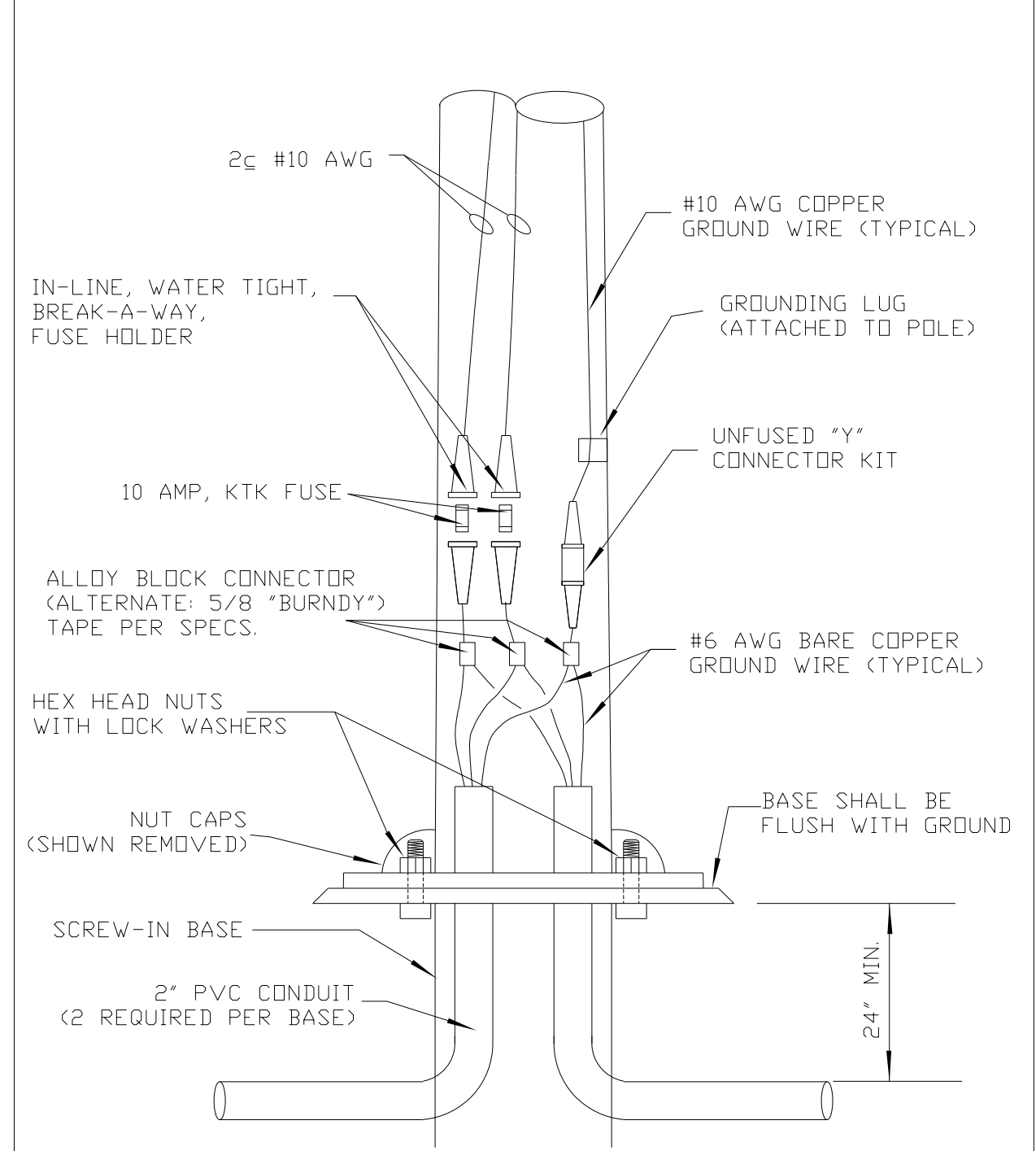


NOTE: INCLUDE Z-2057 INSTALLATION INSTRUCTIONS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	SP-6242-GLV	Weldment, Conductor Guide, for 6" Cable Retainer Assy, Steel, Galv	1
2	SP-6199-3-GLV	Bar, Cable Retainer Assembly, Steel	2
3	SP-6199-4	Pad, Cable Retainer, 3/16" Thick, 90 Duro, Red Urethane	4
4	FS-2016-SS	Bolt, Hex Hd Tap, 5/16"-18 x 2-1/4", Type 304 Stainless	4
5	SP-6199-GLV	Weldment, Cable Retainer Assembly, for 6" Foundation Anchor, Steel, Galv	1
6	O-3140	Label, 1" x 2", Cable Retainer	1
7	FS-4101-SS	Washer, Flat, 5/16" x 3/4" OD, Type 304 Stainless	8
8	FS-4201-SS	Lock Washer, Split, 5/16", Type 304 Stainless	4
9	FS-1001-SS	Nut, Hex 5/16"-18, Type 304 Stainless	4

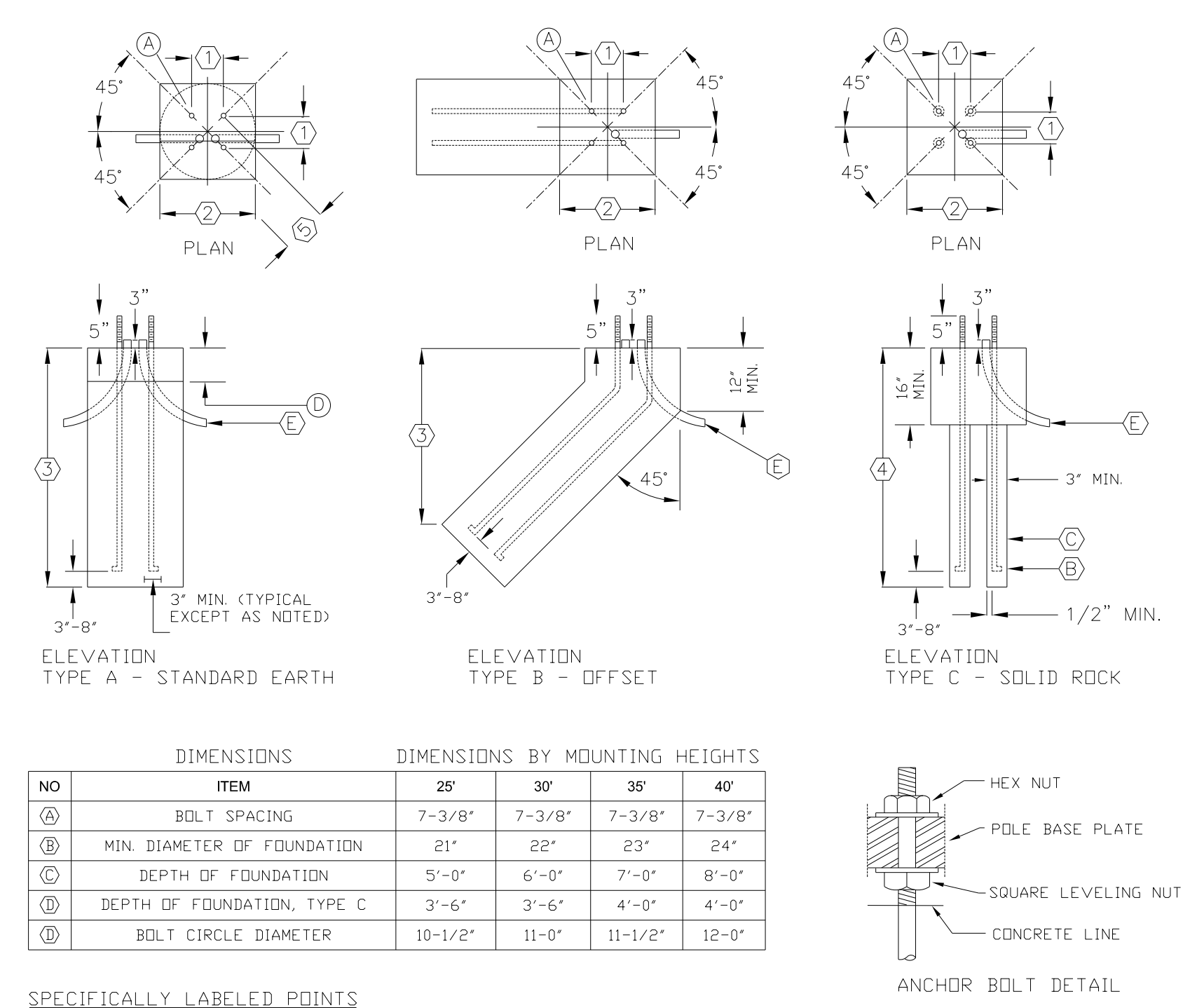
DATE	BY	DATE	BY	DATE	BY	SHEET	OF

POLE-BASE CONNECTIONS
 NOT TO SCALE



CAUTION!
 CONTRACTOR SHALL REFER TO UTILITY NOTES (ON PLAN) WHEN INSTALLING LIGHTS IN THE VICINITY OF UTILITIES.

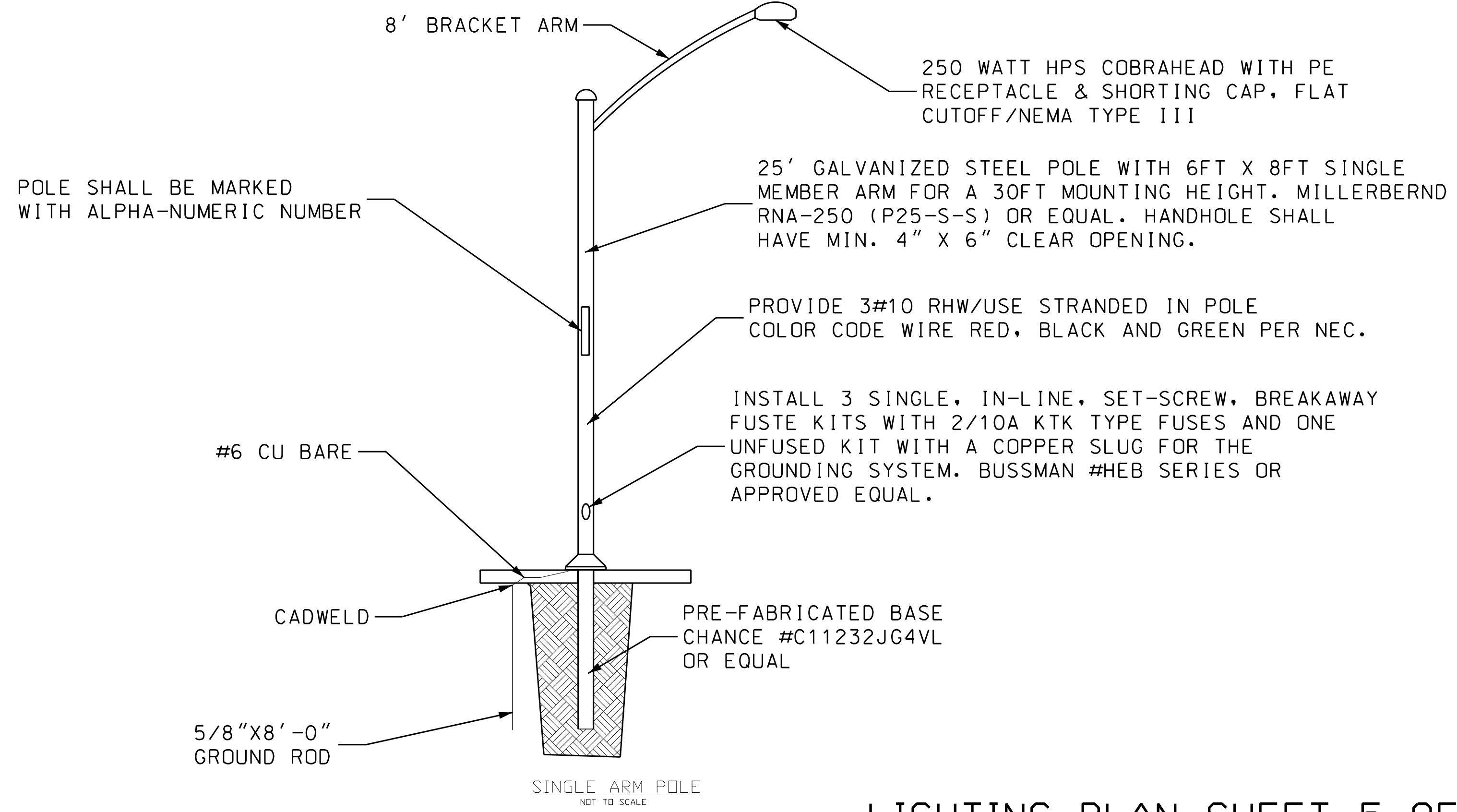
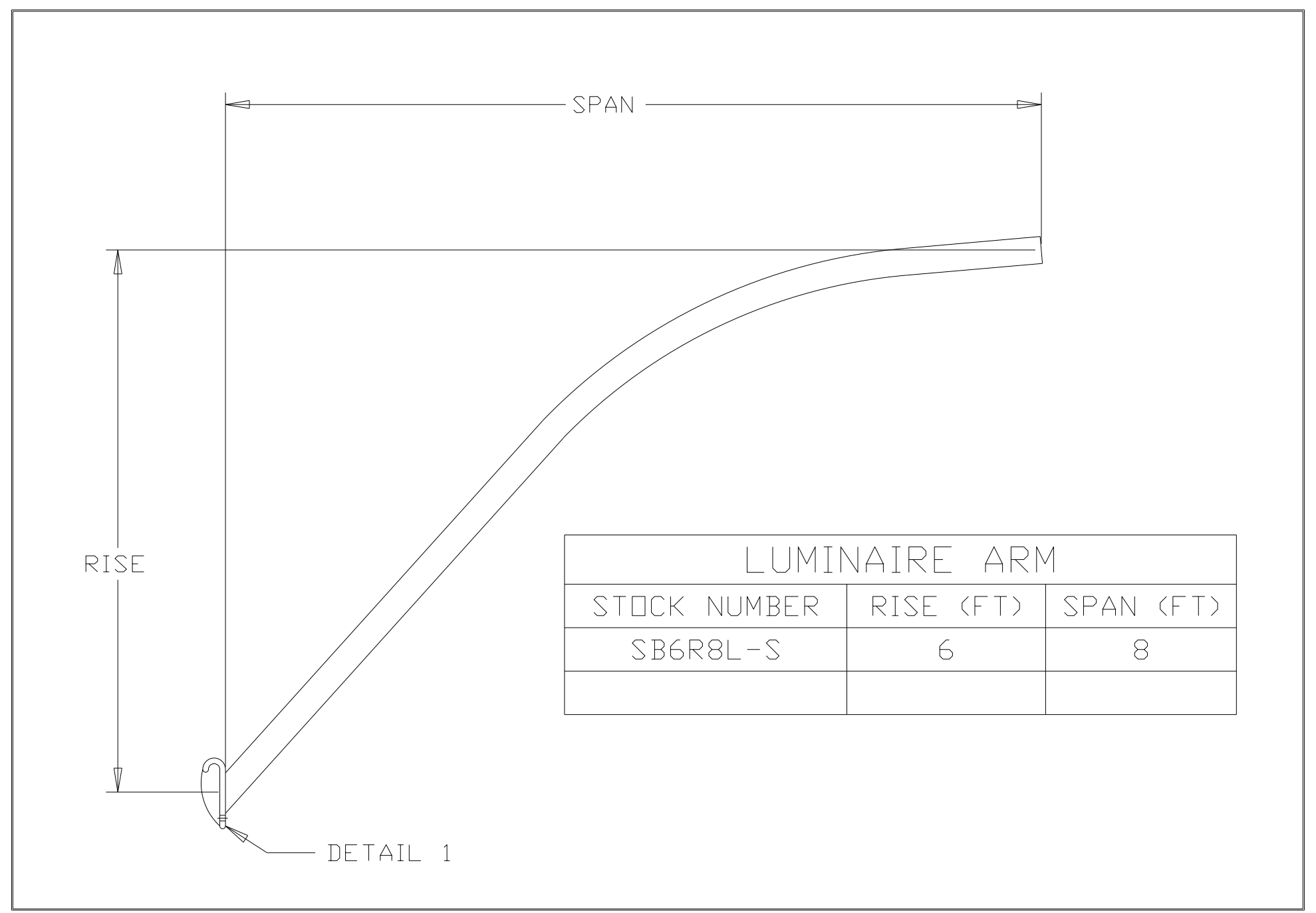
STREETLIGHT FOUNDATIONS



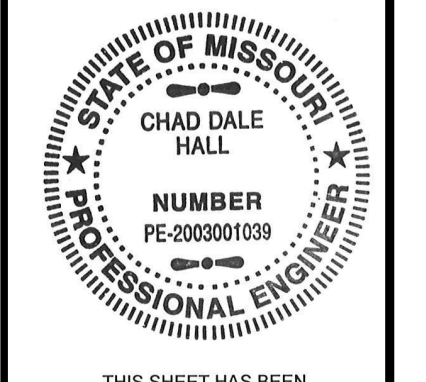
NO	ITEM	25'	30'	35'	40'
(A)	BOLT SPACING	7'-3/8"	7'-3/8"	7'-3/8"	7'-3/8"
(B)	MIN DIAMETER OF FOUNDATION	21"	22"	23"	24"
(C)	DEPTH OF FOUNDATION	5'-0"	6'-0"	7'-0"	8'-0"
(D)	DEPTH OF FOUNDATION, TYPE C	3'-6"	3'-6"	4'-0"	4'-0"
(E)	BOLT CIRCLE DIAMETER	10'-1/2"	11'-0"	11'-1/2"	12'-0"

- SPECIFICALLY LABELED POINTS**
- 1" DIAMETER ANCHOR BOLTS EXTENDED WITH 6" REBAR AS REQUIRED.
 - CUT ANCHOR BOLTS AS REQUIRED AND BEFORE BOTTOM ENDS TO LOCK POSITIVELY.
 - WITH MODIFIED ANCHOR RODS IN PLACE, FILL DRILLED HOLES WITH EPOXY RESIN SIKADUR HI-MOD CARTER WATERS 202 TYPE II OR EQUIVALENT.
 - 6" DEEP SQUARE TOP (ROUND TOP ACCEPTABLE IN EARTH SURFACES). THIS 6" CAP TO BE POURED AFTER POLE IS ERECTED AND PLUMBED. EXPANSION JOINT TO BE USED WHERE PAIVING ADJOINS FOUNDATION.
 - PLUG ALL CONDUIT OPENINGS WITH DUXSEAL OR EQUIVALENT BEFORE PLACING CONCRETE AND AFTER CABLE INSTALLATION. SEE PLANS FOR NUMBER AND DIRECTION OF BENDS.

- FOUNDATION NOTES**
- TOP 8" OF ANCHOR BOLT TO BE HOT-DIP GALVANIZED.
 - BOTTOM ENDS OF ANCHOR BOLTS MUST HAVE 3" MINIMUM CONCRETE COVER.
 - USE BOLT POSITIONING JIG OF SUFFICIENT WEIGHT AND STRENGTH TO MAINTAIN ACCURATE ANCHOR BOLT LOCATION DURING CONCRETE PLACEMENT.
 - CITY-AUTHORIZED INSPECTOR MUST INSPECT EACH EXCAVATION, WITH ALL FORMS, ANCHOR BOLTS, REINFORCING STEEL, CONDUIT, AND CONDUIT PLUGS IN PLACE IMMEDIATELY PRIOR TO PLACING CONCRETE.
 - CONCRETE FOR FOUNDATIONS OUTSIDE OF C.B.D. SHALL BE MC18 MIX NO. A558-1-2 OR MC18 MIX NO. A618-1-4. CONCRETE FOR FOUNDATIONS IN THE C.B.D. SHALL BE PER OFFICIAL DOCUMENT NO. 85199, DATED 8-20-69 AND ANY REVISION OR REPLACEMENT THERE TO.
 - CONCRETE TO BE VIBRATED DURING PLACEMENT.
 - FOUNDATIONS IN EARTH TO BE 1" ABOVE ANY ADJACENT EARTH AND HAVE EDGES BEVELED.
 - TIE ANCHOR BOLTS NEAR THE BOTTOM. USE TWO #3 REBAR HOOKS SPACED 12", TWO #3 REBAR "U" SPACED 12", OR TWO TURNS OF #3 REBAR SPIRAL WITH 12" PITCH.



POLE SHALL BE MARKED WITH ALPHA-NUMERIC NUMBER



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

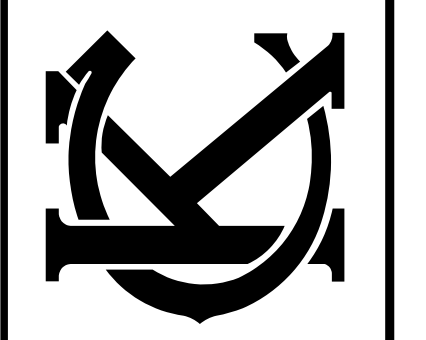
DATE PREPARED: 4/20/2015

ROUTE: BRDWAY DISTRICT: KC COUNTY: JACKSON JOB NO.: 89005561 CONTRACT ID: -

PROJECT NO.: - BRIDGE NO.: -

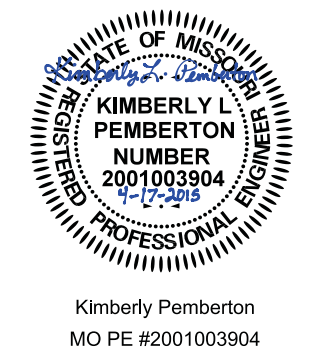
DATE	DESCRIPTION

CITY OF KANSAS CITY, MISSOURI
 414 E. 12TH STREET, 19TH FLOOR
 KANSAS CITY, MO 64151
 P: (816) 513-2600
 F: (816) 513-2572
 www.kcmo.org



HDR Engineering, Inc.
 4435 Main Street
 Suite 1000
 Kansas City, MO 64111-1856
 816-360-2700
 Certificate of Authority: 000856

MATCH LINE STATION 105+30



DATE PREPARED
4/17/2015

ROUTE STATE
BRDWAY MO

DISTRICT SHEET NO.
KC G21

COUNTY
JACKSON

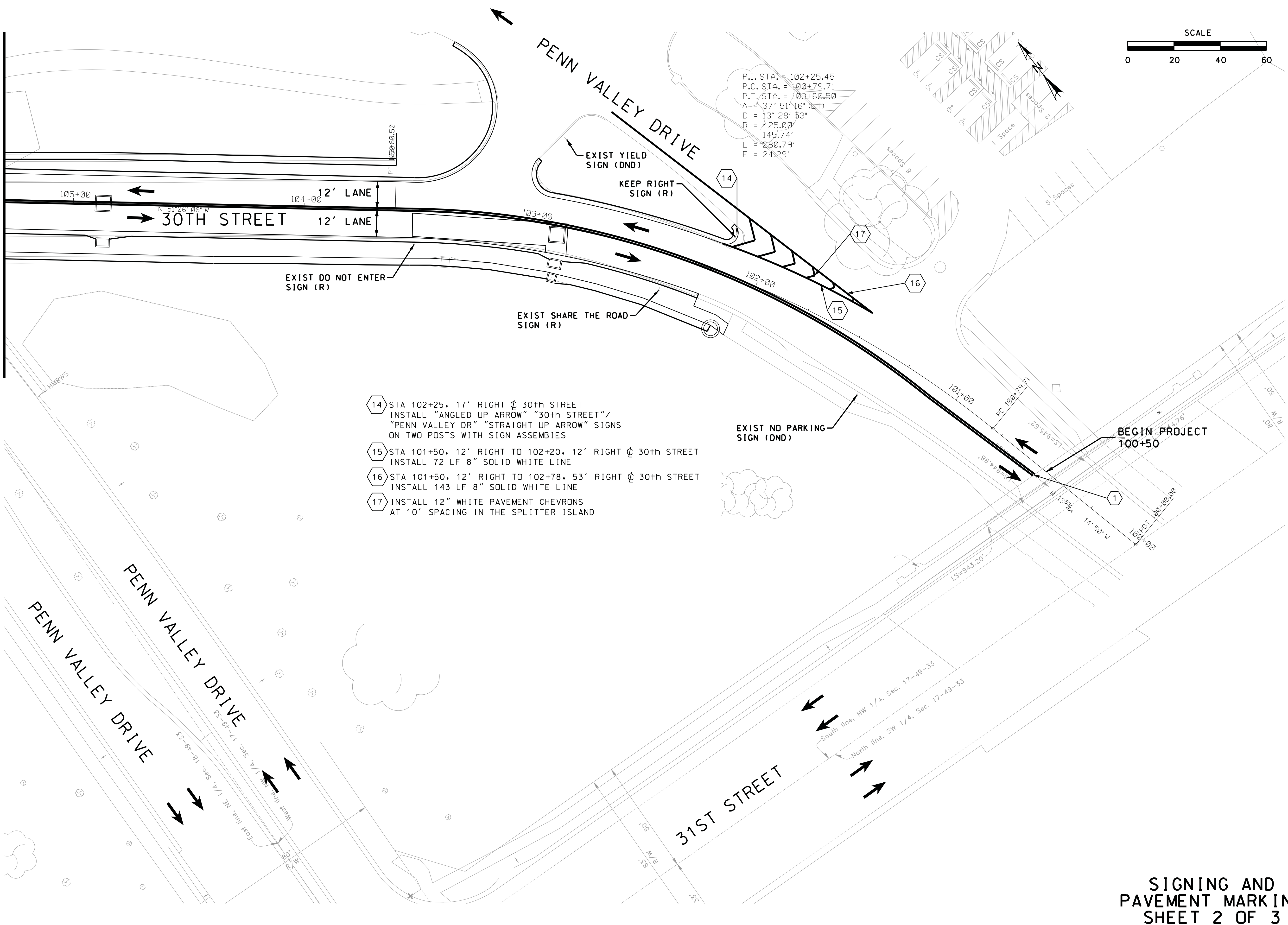
JOB NO.
89005561

CONTRACT ID.

PROJECT NO.
-

BRIDGE NO.
-

P.I. STA. = 102+25.45
P.C. STA. = 100+79.71
P.T. STA. = 103+60.50
 $\Delta = 37^\circ 51' 16''$ (LT)
D = 13' 28' 53"
R = 425.00'
T = 145.74'
L = 280.79'
E = 24.29'



EXIST DO NOT ENTER SIGN (R)

EXIST SHARE THE ROAD SIGN (R)

EXIST YIELD SIGN (DND)
KEEP RIGHT SIGN (R)

EXIST NO PARKING SIGN (DND)

BEGIN PROJECT 100+50

- 14 STA 102+25, 17' RIGHT ϕ 30th STREET
INSTALL "ANGLED UP ARROW" "30th STREET" /
"PENN VALLEY DR" "STRAIGHT UP ARROW" SIGNS
ON TWO POSTS WITH SIGN ASSEMBLIES
- 15 STA 101+50, 12' RIGHT TO 102+20, 12' RIGHT ϕ 30th STREET
INSTALL 72 LF 8" SOLID WHITE LINE
- 16 STA 101+50, 12' RIGHT TO 102+78, 53' RIGHT ϕ 30th STREET
INSTALL 143 LF 8" SOLID WHITE LINE
- 17 INSTALL 12" WHITE PAVEMENT CHEVRONS
AT 10' SPACING IN THE SPLITTER ISLAND

DESCRIPTION

DATE

CITY OF KANSAS CITY, MISSOURI
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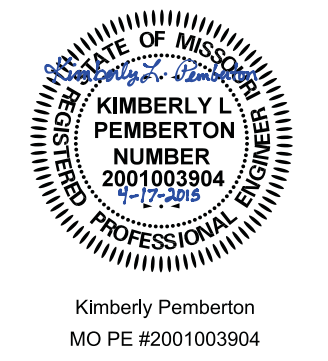
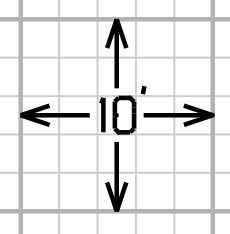


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Kansas City, MO 64111-8856
816-366-2700
Certificate of Authority: 000856

Missouri Cert. of
Authority 2002010300

**SIGNING AND
PAVEMENT MARKING
SHEET 2 OF 3**



DATE PREPARED
4/17/2015

ROUTE STATE
BRDWAY MO

DISTRICT SHEET NO.
KC G24

COUNTY
JACKSON

JOB NO.
89005561

CONTRACT ID.

PROJECT NO.
-

BRIDGE NO.
-

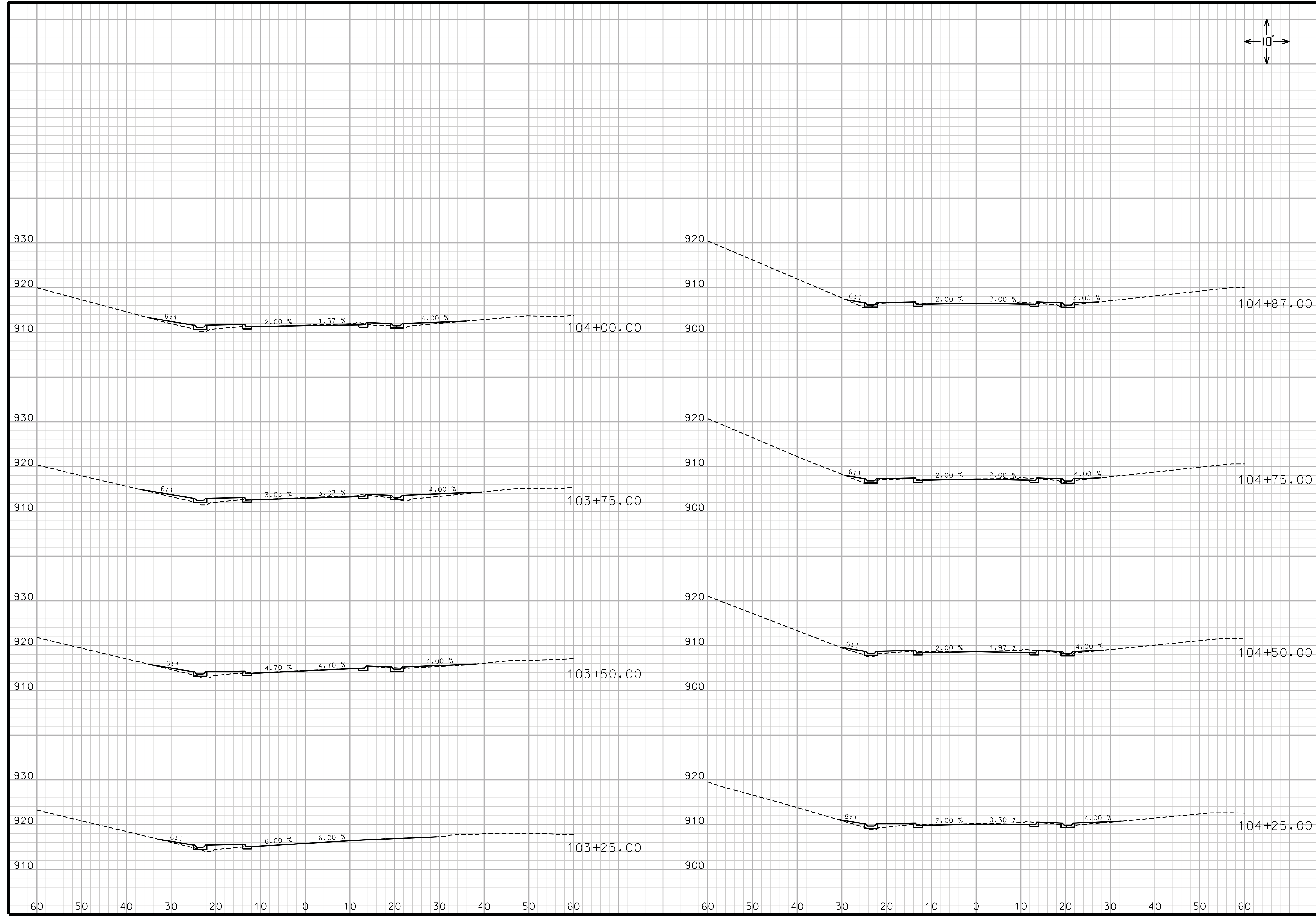
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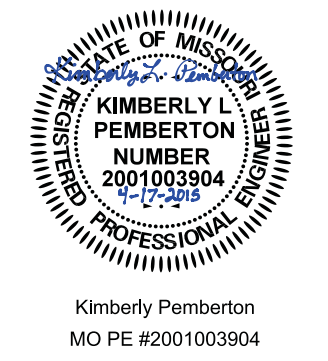
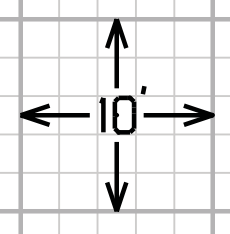
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DATE PREPARED
4/17/2015

ROUTE STATE
BRDWAY MO

DISTRICT SHEET NO.
KC G25

COUNTY
JACKSON

JOB NO.
89005561

CONTRACT ID.

PROJECT NO.
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BRIDGE NO.
-

DESCRIPTION	DATE

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