CITY OF SANTA ROSA

IMPROVEMENT PLANS FOR

DOWNTOWN SANTA ROSA STREETSCAPE

FEDERAL PROJECT NO. CML-5028 (072)

CONTRACT No. C01627

GENERAL NOTES

1. ALL WORKMANSHIP, MATERIALS, AND CONSTRUCTION SHALL CONFORM TO THE CITY OF SANTA ROSA STANDARD PLANS, THE CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS FOR THIS PROJECT, AND THE STATE STANDARD SPECIFICATIONS AND STANDARD PLANS. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING ALL STANDARDS PERTAINING TO THIS PROJECT.

2. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 AT LEAST TWO WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARKOUTS OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH SECTION 8-1.11 OF THE SPECIAL PROVISIONS.

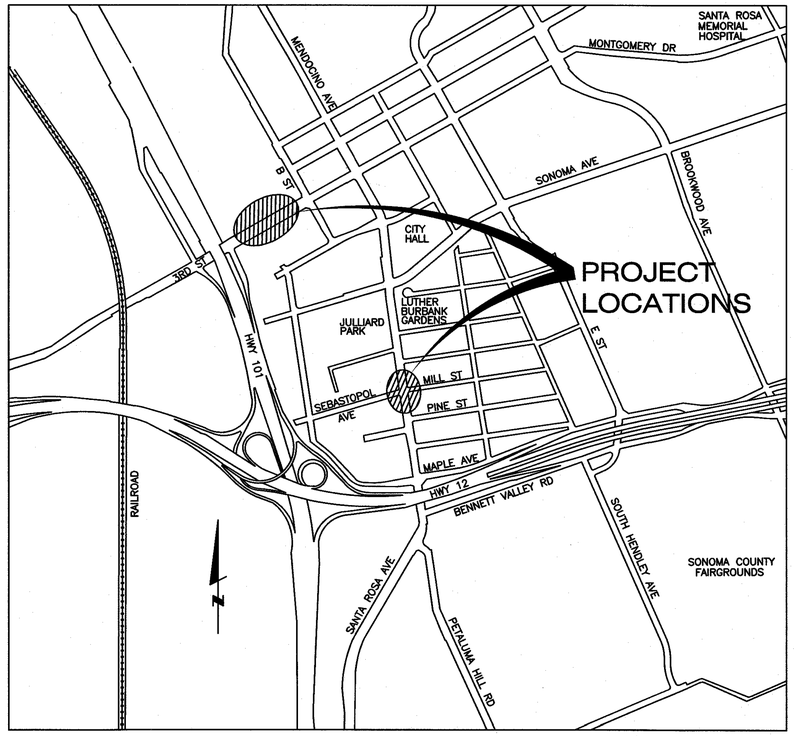
3. THE LOCATIONS OF UNDERGROUND UTILITIES AND OTHER OBSTACLES SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL POTHOLE AND DETERMINE THE EXACT LOCATION OF ALL POTENTIAL CONFLICTS IN ACCORDANCE WITH U.S.A. LAWS AND SECTION 8-1.11 OF THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. IF AN UNMARKED UTILITY IS ENCOUNTERED, OR IF UNABLE TO LOCATE A MARKED UTILITY AFTER POTHOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THAT UTILITY AND THE CITY ENGINEER.

4. ALL SEWER MANHOLES, RODDING INLETS AND WATER VALVES THAT ARE ON ACTIVE SYSTEMS SHALL BE ACCESSIBLE TO CITY PERSONNEL AT ALL TIMES AND SHALL BE BROUGHT TO GRADE WITHIN 48 HOURS OF PAVING.

5. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL CITY MONUMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER 10 WORKING DAYS IN ADVANCE FOR REFERENCING OF EXISTING MONUMENTS TO BE DISTURBED. THE CONTRACTOR SHALL RECONSTRUCT DISTURBED MONUMENTS IN ACCORDANCE WITH CITY STANDARD 280.

6. OVERHEAD UTILITY SERVICE DROPS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF LIMITED CLEARANCE UNDER OVERHEAD UTILITY LINES AND LOW HANGING TREE BRANCHES. THE CONTRACTOR'S TRUCKS AND EXCAVATION EQUIPMENT SHALL BE SIZED SO THAT OVERHEAD WIRES AND TREE BRANCHES ARE NOT DAMAGED.

7. ALL EXCAVATED MATERIAL SHALL BE REMOVED AS IT IS GENERATED AND AT NO TIME SHALL THE CONTRACTOR PLACE EXCAVATED MATERIAL AT THE WORK SITE.



LOCATION MAP
NTS

INDEX TO SHEETS

No.	Title
1	COVER
2	STRIPING PLAN, LEGEND, ABBREVEATIONS & DETAILS
3	SITE PLAN & SURVEY DATA
4	ELECTRICAL PLAN
5	LOOP PLAN & CONDUCTOR SCHEDULE
6	DOWNTOWN STREETSCAPE PLAN, DETAILS & GENERAL LIGHTING NOTES
7	DOWNTOWN STREETSCAPE LIGHTING PLAN
8	STRIPING PLAN & ADA IMPROVEMENTS

RECORD PLAN DATA

PROJECT START:	WATER SERVICE TYPE:
PROJECT END:	MANUFACTURER:
GEN. CONTRACTOR:	FIRE HYDRANT TYPE:
SUPERINTENDENT:	MANUFACTURER:
UNDERGROUND CONTRACTOR:	INSPECTOR:
FOREMAN:	CONSTRUCTION MANAGER:
SEWER PIPE TYPE:	RECORD PLANS BY:
MANUFACTURER:	ADDITIONAL INFO:
SEWER FITTINGS MANUFACTURER:	
M.H. MANUFACTURER:	
WATER PIPE TYPE:	
MANUFACTURER:	
WATER VALVE MANUFACTURER:	
WATER FITTINGS MANUFACTURER:	

PROFESSIONAL ENGINEER * WILLIAM C. TRUE * No. 46002 Exp. 12/31/2016 * REGISTERED * STATE OF CALIFORNIA * CIVIL

Department	Signature	Date
Design/Construction		
Survey		
Electrical		
Traffic		
		N/A

No.	Date	Revision	By

DATE: 1-15-2016
SCALE: SHOWN
DWN BY:
CHK BY:

City of Santa Rosa
Public Works

APPROVED: Deputy Director of Public Works - Engineering
By: Nelleen Fariss Date 8/4/2016

DOWNTOWN SANTA ROSA STREETSCAPE

COVER

CONTRACT NO. C01627

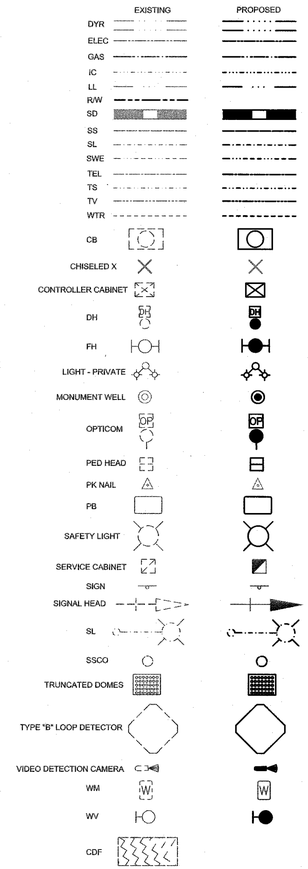
SHEET 1 OF 8

FILE NO. 2015-0035

ABBREVIATIONS

AB	AGGREGATE BASE	LP	LOW POINT
ABAN	ABANDONED	LT	LEFT
ABS	ACRYLONITIRILE-BUTADIENE-STYRENE	LUM	LUMINAIRE
AC	ASPHALT CONCRETE	MAX	MAXIMUM
ACP	ASBESTOS CONCRETE PIPE	MB	MAILBOX
ADD'L	ADDITIONAL	MH	MAN HOLE
ANG	ANGLE	MIN	MINIMUM
AP	ANGLE POINT	MISC	MISCELLANEOUS
APN	ASSESSORS PARCEL MAP	MON	MONUMENT
APPROX	APPROXIMATE	(N)	NORTH
ARV	AIR RELIEF VALVE	N/A	NOT AVAILABLE/APPLICABLE
ASNS	ADVANCED STREET NAME SIGN	N/C	NOT IN CONTRACT
AVE	AVENUE	NO	NUMBER
AVG	AVERAGE	NTS	NOT TO SCALE
BC	BEGIN CURVE	OC	ON CENTER
BFP	BACK FLOW PEVENTER	OD	OUTSIDE DIAMETER
BLDG	BUILDING	OH	OVERHEAD
BLVD	BOULEVARD	PB	PULL BOX
BM	BENCH MARK	PCC	POINT OF COMPOUND CURVE
BO	BLOW OFF	PCC	PORTLAND CEMENT CONCRETE
BOC	BACK OF CURB	PEC	PHOTO ELECTRIC CONTROL
BRC	BEGIN REVERSE CURVE	PED	PEDESTRIAN
BSW	BACK OF SIDEWALK	PI	POINT OF INTERSECTION
BW	BOTTOM OF WALL	PIV	POST INDICATOR VALVE
BVC	BEGIN VERTICAL CURVE	℄	PROPERTY LINE
C	CONDUIT	POC	POINT ON CURVE
CB	CATCH BASIN	POVC	POINT ON VERTICAL CURVE
C&G	CURB AND GUTTER	PVI	POINT OF VERTICAL INTERSECTION
CDF	CONTROL DENSITY FILL	PP	POWER POLE
CIP	CAST IRON PIPE	PPB	PEDESTRIAN PUSH BUTTON
℄	CENTERLINE	PR	PAIR
CL	CLASS	PRC	POINT OF REVERSE CURVE
CLR	CLEAR	PRV	PRESSURE REDUCING VALVE
CMP	CORRUGATED METAL PIPE	PSD	PERFORATED SUBDRAIN
CMU	CONCRETE MASONRY UNIT	PUE	PUBLIC UTILITY EASEMENT
CO	CLEANOUT	PT	POINT
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CONST	CONSTRUCTION	PVMT	PAVEMENT
CONT	CONTINUOUS	R	RADIUS
CP	CONTROL POINT	RC	RELATIVE COMPACTION
CT	COURT	REF	REFERENCE
CTB	CEMENT TREATED BASE	REINF	REINFORCING
CTR	CENTER	REQ'D	REQUIRED
CY	CUBIC YARD	RCP	REINFORCED CONCRETE PIPE
DCV	DETECTOR CHECK VALVE	RD	ROAD
DI	DROP INLET	R/W	RIGHT OF WAY
DIP	DUCTILE IRON PIPE	RPM	RAISED PAVEMENT MARKER
DH	DETECTOR HANDHOLE	RT	RIGHT
DIA	DIAMETER	S	SLOPE
DLC	DETECTOR LEAD-IN CABLE	(S)	SOUTH
DR	DRIVE	SD	STORM DRAIN
DWG	DRAWING	SDMH	STORM DRAIN MANHOLE
DWR	DASHED WHITE RAISED PAVEMENT MARKER	SF	SQUARE FEET
DWY	DRIVEWAY	SG	SUBGRADE
DY	DOUBLE YELLOW	SHT	SHEET
DYR	DASHED YELLOW RAISED PAVEMENT MARKER	SIG	SIGNAL
(E)	EAST	SIM	SIMILAR
EX	EXISTING	SL	STREET LIGHT
EA	EACH	SPEC	SPECIFICATION
EC	END CURVE	SQ	SQUARE
EG	EXISTING GROUND	SS	SANITARY SEWER
ELEC	ELECTRICAL	SSCO	SANITARY SEWER CLEANOUT
ELEV	ELEVATION	SSMH	SANITARY SEWER MANHOLE
EP	EDGE OF PAVEMENT	ST	STREET
EQ	EQUAL	STA	STATION
ESMT	EASEMENT	STD	STANDARD
EVC	END OF CURVE	SVC	SERVICE
FA	FIRE ALARM	SW	SIDEWALK
FC	FACE OF CURB	SWL	SOLID WHITE LINE
FDC	FIRE DEPARTMENT CONNECTION	TEL	TELEPHONE
FES	FLARED END SECTION	TAN	TANGENT
FG	FINISHED GRADE	TBM	TEMPORARY BENCHMARK
FH	FIRE HYDRANT	TC	TOP OF CONCRETE
℄	FLOWLINE	TCC	TOP OF CONCRETE CURB
FSW	FRONT OF SIDEWALK	TEC	TEMPORARY CONSTRUCTION EASEMENT
FT	FOOT OR FEET	THK	THICK
FTG	FOOTING	TG	TOP OF GRATE
FYA	FLASHING YELLOW ARROW	TW	TOP OF WALL
G	GROUND	TP	TOP OF PIPE
GAVL	GALVANIZED	TS	TRAFFIC SIGNAL
GB	GRADE BREAK	TWLTL	TWO WAY LEFT TURN LANE
GV	GATE VALVE	TYP	TYPICAL
HC	HANDICAPPED	UC	UTILITY CHASE
HD	HEAVY DUTY	UG	UNDERGROUND
HDPE	HIGH DENSITY POLYETHYLENE	UNO	UNLESS NOTED OTHERWISE
HORIZ	HORIZONTAL	V	VOLT
HP	HIGH POINT	VC	VERTICAL CURVE
HPS	HIGH PRESSURE SODIUM	VEH	VEHICLE
HT	HEIGHT	VERT	VERTICAL
IC	INTERCONNECT	VG	VALLEY GUTTER
ID	INSIDE DIAMETER	VLT	VAULT
INV	INVERT ELEVATION	VPC	VITRIFIED CLAY PIPE
IP	IRON PIPE	W	WATT or WALK
IRR	IRRIGATION	(W)	WEST
JB	JUNCTION BOX	W/	WITH
JP	JOINT POLE	W/O	WITHOUT
JT	JOINT TRENCH	WBD	WALL BACK DRAIN
KV	KILOVOLT	WM	WATER METER
L	LENGTH	WS	WATER SERVICE
LAT	LATERAL	WSS	WATER SAMPLING STATION
LF	LINEAL FOOT	WTR	WATER
LG	LIP OF GUTTER	WV	WATER VALVE
LL	LANE LINE	WWF	WELDED WIRE FABRIC
LMA	LUMINAIRE MAST ARM	WY	WAY
LN	LANE	YD	YARD

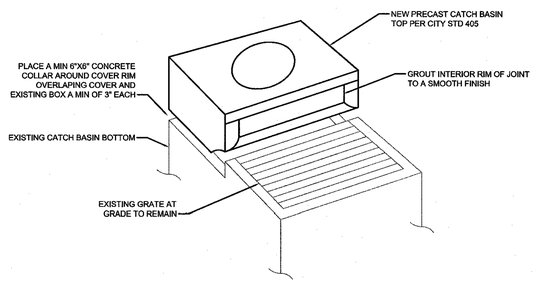
LEGEND



REMOVE EXISTING CURB GUTTER AND/OR ASPHALT AND INSTALL CURB AND GUTTER PER CITY STD 241.

REMOVE EXISTING SIDEWALK, CURB GUTTER AND/OR ASPHALT AND INSTALL SIDEWALK PER CITY STDS.

REMOVE AND REPLACE ASPHALT PER SPECIAL PROVISIONS.



CATCH BASIN TOP REPLACEMENT DETAIL
NTS

CONSTRUCTION NOTES

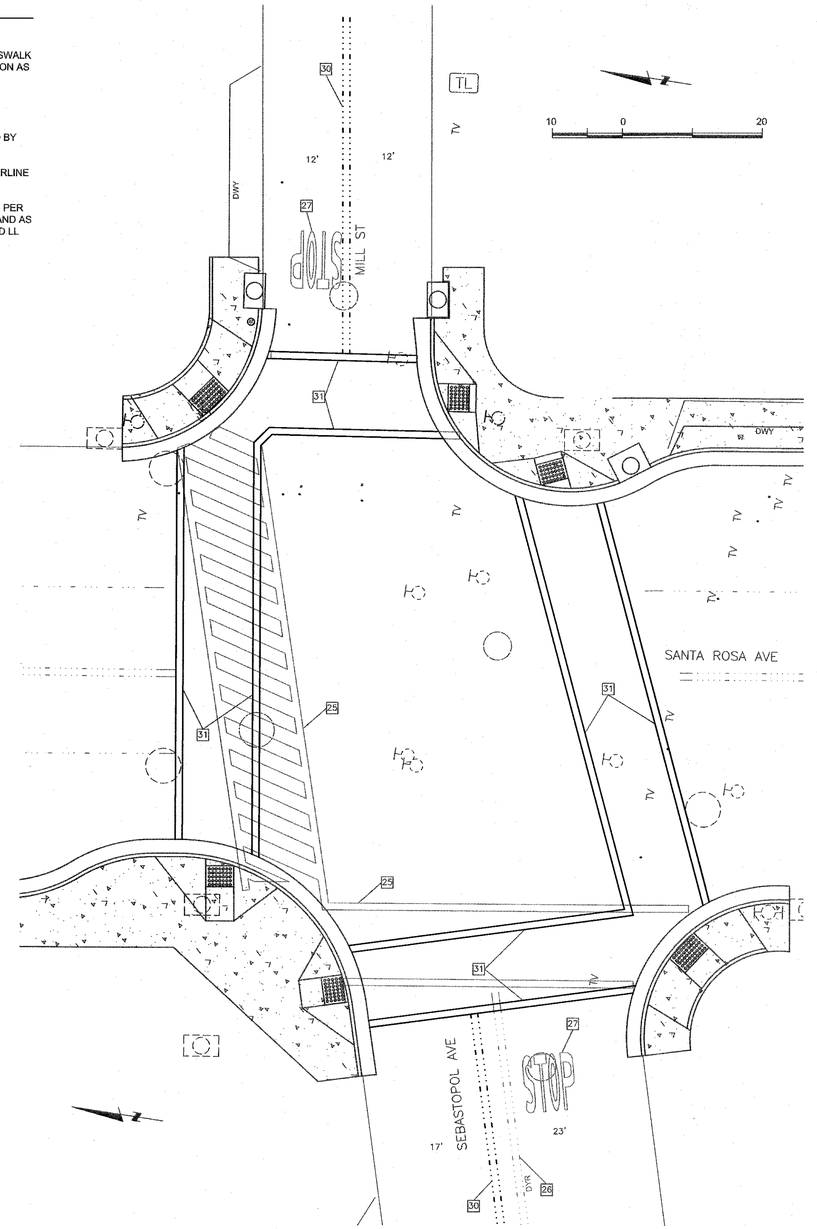
25 REMOVE ALL EXISTING THERMOPLASTIC CROSSWALK LINES AND ZEBRA STRIPES AT THE INTERSECTION AS DIRECTED BY THE ENGINEER.

26 REMOVE EXISTING DOUBLE YELLOW RPM CENTERLINE.

27 REMOVE EXISTING STOP LEGEND AS DIRECTED BY THE ENGINEER.

30 INSTALL 48+/- FEET OF DOUBLE YELLOW CENTERLINE PER CALTRANS STD PLAN A20A DETAIL 23.

31 INSTALL WHITE THERMOPLASTIC CROSSWALKS PER CITY STANDARDS, THE SPECIAL PROVISIONS , AND AS DIRECTED BY THE ENGINEER. REMOVE DYR AND LL WITHIN NEW CROSSWALKS.



SANTA ROSA AVE STRIPING PLAN
1"=10'

REGISTERED PROFESSIONAL ENGINEER * VINCENT LEAGUE * No. 46002 * Exp 12/31/2016 * CIVIL * STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER * ROBERT M. SPRINKLE * No. C 50901 * Exp 12/31/2017 * TRAFFIC * STATE OF CALIFORNIA

No.	Date	Revision	By

DATE: 1-15-2016
SCALE: SHOWN
DWN BY:
CHK BY:

City of Santa Rosa
Public Works

APPROVED: Deputy Director of Public Works – Engineering
By: Date 2/4/2016

DOWNTOWN SANTA ROSA STREETSCAPE

STRIPING PLAN, LEGEND, DETAILS & ABBREVEATIONS

CONTRACT NO. C01627

SHEET 2 OF 8

FILE NO. 2015-0035

GENERAL CONSTRUCTION NOTES

1. ALL TRENCHES SHALL BE BACKFILLED AND PAVED PER CITY STD 215. ALL TRENCH LOCATIONS SHALL BE CONSIDERED IN ARTERIAL STREETS.
2. THE CONTRACTOR SHALL HAND DIG TRENCHES AT CROSSINGS WITH EXISTING CONDUIT AND OTHER UTILITIES.
3. RECORD PLANS INDICATE THE EXISTING STREET SECTION ON SANTA ROSA AVENUE IS 0.40 FEET OF ASPHALT CONCRETE OVER 0.58 FEET OF CEMENT TREATED BASE OVER 0.50 FEET OF LIME TREATED SUB-BASE. ON BOTH SIDES OF SANTA ROSA AVE A SIX FOOT WIDE STRIP AT THE LIP OF GUTTER IS 0.90 FEET OF ASPHALT CONCRETE OVER 0.50 FEET CLASS 4 SUB-BASE. THE FULL WIDTH OF SANTA ROSA AVENUE THERE IS REINFORCING FABRIC 0.15 FEET DOWN IN THE ASPHALT CONCRETE.
4. NEW D3-1 STREET NAME AND REGULATORY SIGNS AND BRACKETS WILL BE PROVIDED AND INSTALLED ON THE TRAFFIC SIGNAL MAST ARMS BY THE CITY AT THE LOCATIONS SHOWN. EXISTING TRAFFIC SIGNS SHALL BE RELOCATED OR REMOVED AND SALVAGED, AS SHOWN ON THE PLANS AND PER CITY STANDARDS.
5. THE LOCATIONS SHOWN FOR THE INSTALLATION OF CONDUIT AND PULL BOXES ARE SCHEMATIC ONLY AND WILL VARY AS FIELD CONDITIONS REQUIRE.
6. THE CONTRACTOR SHALL VERIFY OVERHEAD AND UNDERGROUND CLEARANCES OF EXISTING UTILITIES BEFORE CONSTRUCTION.

CONSTRUCTION NOTES

[1] SAW CUT CURB AND GUTTER AND/OR SIDEWALK AT JOINT OR AS DIRECTED BY THE ENGINEER TYP.

[2] INSTALL TYPE A PEDESTRIAN RAMP PER CITY STD 232-A WITH 3'X4' TRUNCATED DOMES. TYP OF 2.

[3] INSTALL TYPE C PEDESTRIAN RAMP PER CITY STD 232-B WITH 3'X5' TRUNCATED DOMES. TYP OF 2.

[4] INSTALL MODIFIED TYPE A PEDESTRIAN RAMP SIMILAR TO CITY STD 232-A WITH 3'X4' TRUNCATED DOMES. TYP OF 2.

[5] REMOVE EXISTING CATCH BASIN. INSTALL 12 INCH CLASS III RCP PIPE BETWEEN EXISTING INVERTS WITH CONCRETE COLLARS. BACKFILL WITH CLASS II BASE COMPACTED TO 95% RC.

[6] INSTALL TYPE II CATCH BASIN PER CITY STD 402.

[7] SEE STORM DRAIN PROFILE THIS SHEET.

[8] BREAK INTO EXISTING SDMH TO INSTALL 15 INCH SD PIPE PER CITY STD 400.

[9] REMOVE EXISTING CATCH BASIN.

[10] REMOVE EXISTING 18 INCH SD PIPE IN CONFLICT WITH NEW CB AND TWIN 15" SD PIPES.

[11] EXTEND TWIN 15 INCH CLASS V SD PIPES INTO NEW CATCH BASIN WITH CONCRETE COLLARS ON EACH END OF THE NEW PIPES.

[28] R1-1 SIGN TO BE SALVAGED TO THE CITY OF SANTA ROSA AT 55 STONY POINT RD. STREET NAME SIGNS TO BE REMOVED BY THE CONTRACTOR AND MOUNTED ON THE TRAFFIC SIGNAL POLE BY THE CITY OF SANTA ROSA. TYP OF 2.

[29] W11-2 AND W16-7P TO BE SALVAGED TO THE CITY OF SANTA ROSA AT 55 STONY POINT RD. TYP OF 2.

[34] RELOCATE BUS STOP SIGNS, R26, AND POLE PER CITY STANDARDS, THE SPECIAL PROVISIONS , AND AS DIRECTED BY THE ENGINEER.

[37] INSTALL EXISTING 18 INCH SD INTO NEW CB.

[38] GUTTER PAN CROSS SLOPE IN FRONT OF THE PED RAMP, SHALL MATCH THE NOTED AC SLOPE AT THE PED RAMP.

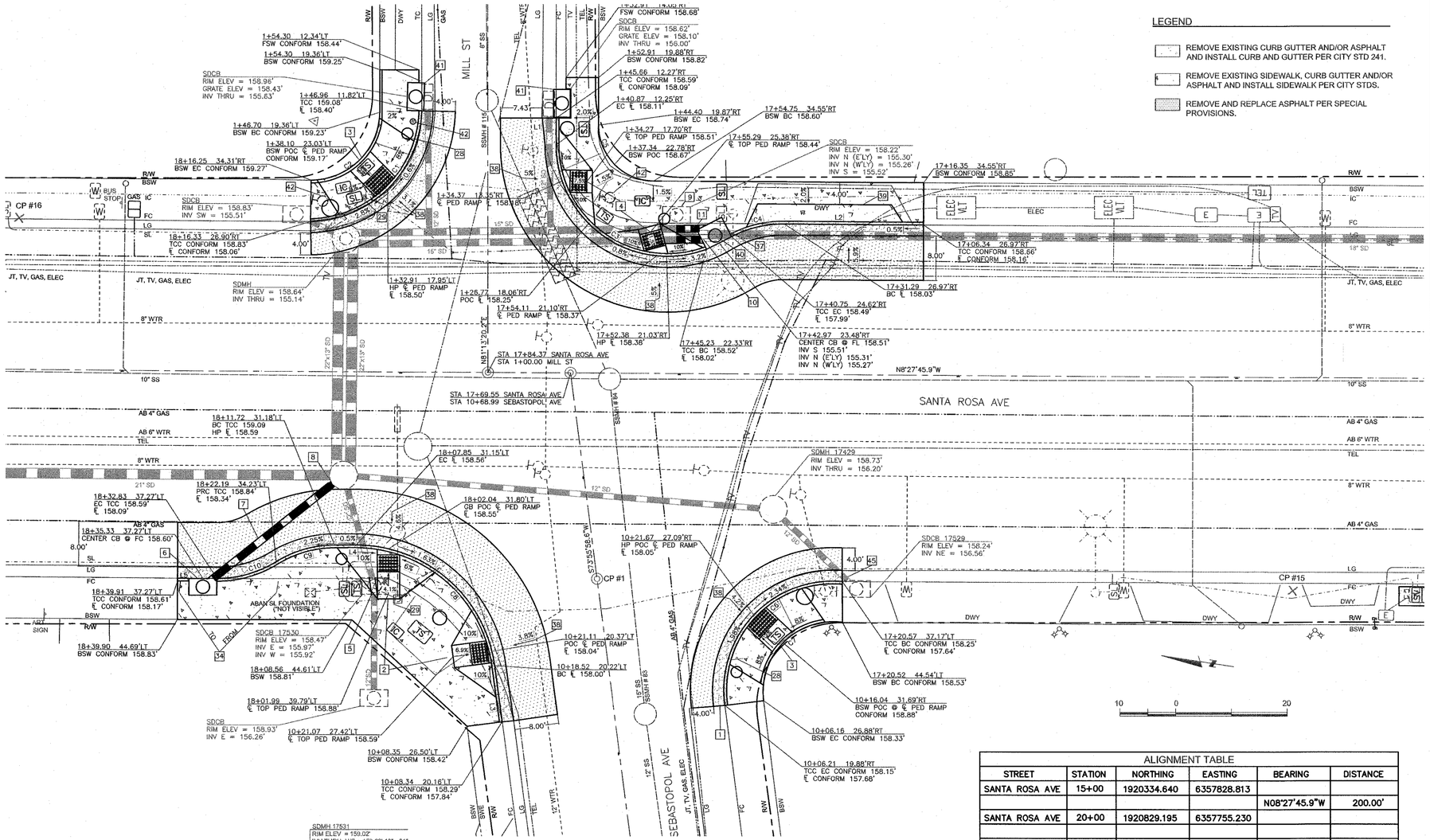
[39] INSTALL 24 FOOT WIDE DRIVEWAY PER CITY STD 250A, THE SPECIAL PROVISIONS , AND AS DIRECTED BY THE ENGINEER.

[40] INSTALL A 36" x 48" CATCH BASIN SIMILAR TO CITY STD 402.

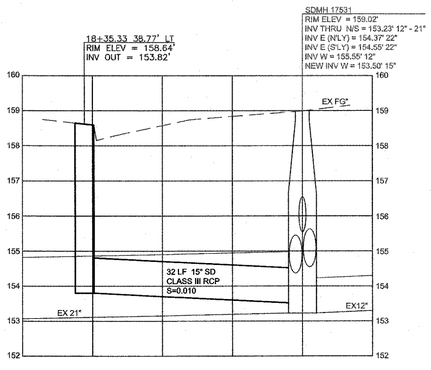
[41] REMOVE EXISTING TOP OF CATCH BASIN TO 17 INCHES BELOW TOP OF CURB AND INSTALL PRECAST CATCH BASIN COVER PER CITY STD 405 AND CATCH BASIN TOP REPLACEMENT DETAIL ON SHEET 2. EXISTING GRATE OPENING AND GRATE TO REMAIN.

[42] ADJUST GAS VALVE BOX AND SET BOX TO GRADE. TYP OF 3.

[45] THE 12" STORM DRAIN PIPE IS EXTREMELY SHALLOW. THE CONTRACTOR SHALL TAKE GREAT CARE WHEN WORKING AROUND THE PIPE. ALL DAMAGE TO THE PIPE SHALL BE REPAIRED BY THE CONTRACTOR, AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE ENGINEER.



SITE PLAN
1" = 10'



STORM DRAIN PROFILE
1" = 10' (H)
1" = 2' (V)

LEGEND

- REMOVE EXISTING CURB GUTTER AND/OR ASPHALT AND INSTALL CURB AND GUTTER PER CITY STD 241.
- REMOVE EXISTING SIDEWALK, CURB GUTTER AND/OR ASPHALT AND INSTALL SIDEWALK PER CITY STDS.
- REMOVE AND REPLACE ASPHALT PER SPECIAL PROVISIONS.

ALIGNMENT TABLE

STREET	STATION	NORTHING	EASTING	BEARING	DISTANCE
SANTA ROSA AVE	15+00	1920334.640	6357828.813		
				N08°27'45.9"W	200.00'
SANTA ROSA AVE	20+00	1920829.195	6357755.230		
SEBASTOPOL AVE	9+50	1920568.320	6347674.803		
				S73°55'58.6"W	118.99'
SEBASTOPOL AVE	10+68.99	1920601.260	6357789.172		
MILL ST	1+00	1920615.914	6357786.963		
				N81°13'20.2"E	50.00'
MILL ST	1+50	1920623.544	6357836.378		

CURVE DATA

CURVE	FEATURE	RADIUS	LENGTH	DELTA
C1	FC	20'	31.1'	87.21
C2	BSW	12.5'	19.2'	88.29
C3	FC	20'	38.6'	111.10
C4	FC	20'	9.8'	28.20
C5	BSW	10'	15.7'	89.74
C6	FC	20'	35.3'	102.98
C7	BSW	12.7'	23.0'	104.08
C8	FC	25'	36.0'	82.48
C9	FC	20'	11.0'	31.63
C10	FC	20'	11.2'	32.12

FACE OF CURB LINE DATA

LINE	LENGTH	BEARING
L1	4.79'	N81°16'38.9"E
L2	24.95'	S8°27'11.1"E
L3	10.17'	S73°36'10.8"W
L4	3.87'	S8°52'28.7"E
L5	2.08'	S8°23'11.5"E

BENCH LEVEL DATA

C-41 (157.553')	Santa Rosa Av. and Sebastopol Av.; City disk in well monument, on CL Sebastopol and W'ly curb of Santa Rosa Av. 2/84

CONTROL DATA

POINT	NORTHING	EASTING	ELEV	DESCRIPTION
CP #1	1920590.926	6357753.293	157.55	2" DISK IN MON. WELL @ INT. OF S R AVE & SEBASTOPOL AVE (CONTROL MON G-17)
CP #15	1920467.247	6357770.333	158.54	CHIS "X" ON SW ON W/S OF SR AVE S\O SEBASTOPOL BETWEEN 2ND & 3RD DW 1.3' FROM FOC
CP #16	1920703.229	6357801.429	159.02	CHIS "X" IN TOC ON E/SIDEOF SR AVE N/O MILL ST 5.40' S/O 1ST LIGHT POLE

PROFESSIONAL ENGINEER * WILLIAM C. WORTHINGTON * No. 46002 * Exp. 12/31/2016 * REGISTERED * STATE OF CALIFORNIA * CIVIL

No.	Date	Revision	By

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DWN BY:
CHK BY:

City of Santa Rosa
Public Works

APPROVED: Deputy Director of Public Works – Engineering
By: Jillian Ferguson Date 2/4/2016

DOWNTOWN SANTA ROSA STREETSCAPE

SITE PLAN & SURVEY DATA

CONTRACT NO. C01627

SHEET 3 OF 8

FILE NO. 2015-0035

CONSTRUCTION NOTES

AB ABANDON CONDUIT, REMOVE CONDUCTORS.

BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.

CC CONNECT NEW AND EXISTING CONDUIT.

12 REMOVE EXISTING STREET LIGHT PULL BOX. INSTALL NEW PULL BOX WITH SERVICE LID. PULL BOX TO SUPPLY THE SERVICE TO THE EXISTING STREET LIGHT SYSTEM AND THE NEW TRAFFIC SIGNAL. REPLACE CONDUCTORS FROM THE EXISTING SERVICE CABINET THRU THE PULL BOX TO THE TRAFFIC SIGNAL AND THE STREET LIGHT SYSTEM.

13 INSTALL NEW STREET LIGHT PULL BOX. SPLICE CONDUCTORS IN BOX TO KEEP THE STREET LIGHT SYSTEM FUNCTIONING.

14 INSTALL NEW 2 INCH CONDUIT FROM THE NEW SERVICE PULL BOX TO THE NEW STREET LIGHT PULL BOX WITH 3 # 6 CONDUCTORS FOR STREET LIGHT SYSTEM.

15 REPLACE EXISTING STREET LIGHT CONDUCTORS FROM EXISTING STREET LIGHT PULL BOX TO THE NEW STREET LIGHT PULL BOX WITH 3 #6 CONDUCTORS, SPLICE AS NEEDED TO KEEP THE STREET LIGHT SYSTEM FUNCTIONING.

16 REPLACE EXISTING STREET LIGHT PULL BOX.

17 SALVAGE AND ABANDON EXISTING CONTROLLER. CONTROLLER CABINET AND CONTENTS TO BE SALVAGED TO THE CITY OF SANTA ROSA AT 55 STONY POINT ROAD. FOUNDATION TO BE ABANDONED TO 6 INCHES BELOW FINISH GRADE.

18 SALVAGE AND ABANDON EXISTING PEDESTRIAN FLASHER, SIGNAL POLE AND EQUIPMENT TO BE SALVAGED TO THE CITY OF SANTA ROSA AT 55 STONY POINT ROAD. FOUNDATION TO BE ABANDONED TO 6 INCHES BELOW FINISH GRADE.

19 INSTALL 4 - 2 INCH CONDUITS. ONE CONDUIT SHALL HAVE EXISTING INTERCONNECT CABLE REMOVED FROM THE CONDUITS CONNECTED TO THE TRAFFIC SIGNAL AT SANTA ROSA AVE AND MAPLE AVE. EXCESS CABLE SHALL BE CUT OFF AND SALVAGED TO THE CITY OF SANTA ROSA AT 55 STONY POINT ROAD. ONE CONDUIT WITH A NEW 25 PAIR CABLE CONNECTING THE NEW CONTROLLER WITH THE EXISTING TRAFFIC SIGNAL CONTROLLER AT SANTA ROSA AVE AND MAPLE AVE. ALL CONDUCTORS SHALL BE LANDED IN BOTH CONTROLLERS PER CITY STANDARDS AND THE SPECIAL PROVISIONS. THE REMAINING TWO CONDUITS SHALL HAVE A PULL ROPE PER THE SPECIAL PROVISIONS.

20 ROUTE EXISTING CONDUIT AND CONDUCTORS AROUND NEW TRAFFIC SIGNAL POLE FOUNDATION AS NEEDED, TYPICAL.

21 PULL INTERCONNECT CABLE OUT OF EXISTING CONDUIT BETWEEN NE CORNER OF SANTA ROSA AVE / MILL ST AND SANTA ROSA AVE / MAPLE AVE CONTROLLER AND REINSTALL INTO NEW CONDUIT AND PULL BOXES TO THE NEW CONTROLLER. THIS CABLE WILL THEN CONNECT THE EXISTING CONTROLLER AT SANTA ROSA AVE / SONOMA AVE WITH THE NEW CONTROLLER AT SANTA ROSA AVE / MILL ST. INSTALL NEW 25 PAIR CABLE CONNECTING THE NEW CONTROLLER WITH THE EXISTING TRAFFIC SIGNAL CONTROLLER AT SANTA ROSA AVE AND MAPLE AVE. ALL CONDUCTORS SHALL BE LANDED IN BOTH CONTROLLERS PER CITY STANDARDS AND THE SPECIAL PROVISIONS.

22 REMOVE EXISTING PEDESTRIAN FLASHER CONDUCTORS FROM THE EXISTING STREET LIGHT SYSTEM BETWEEN SANTA ROSA AVE / SEBASTOPOL AVE INTERSECTION AND SANTA ROSA AVE / PINE ST INTERSECTION.

23 INSTALL NEW STREET LIGHT PULL BOX. INSTALL 3 #6 CONDUCTORS FROM NEW PULL BOX TO TO THE CLOSEST STREET LIGHT PULL BOXES. SPLICE CONDUCTORS IN PULL BOXES AS NEEDED TO KEEP THE STREET LIGHT SYSTEM FUNCTIONING.

24 REMOVE EXISTING PULL BOX. TYP OF 2.

32 EXISTING SERVICE CABINET TO REMAIN.

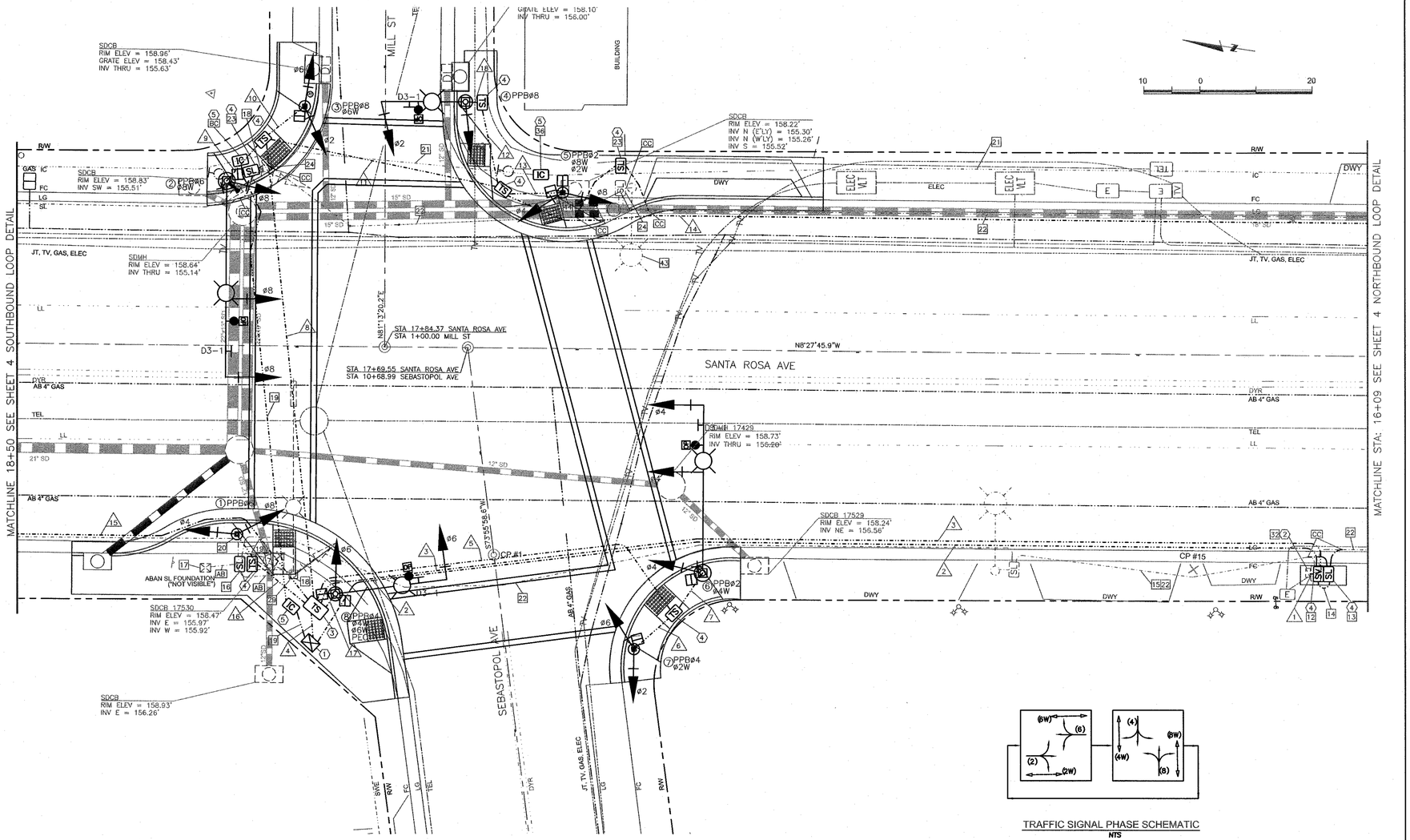
36 REMOVE AND REPLACE EXISTING IC PULL BOX WITH NO. 5 PULL BOX PER CITY STANDARDS AND THE SPECIAL PROVISIONS.

43 SALVAGE AND ABANDON EXISTING STREET LIGHT. STREET LIGHT POLE AND EQUIPMENT TO BE SALVAGED TO THE CITY OF SANTA ROSA AT 55 STONY POINT ROAD. FOUNDATION TO BE ABANDONED TO 6 INCHES BELOW FINISH GRADE.

44 THE SP-2-T ON POLE NUMBER 5 SHALL HAVE THE TERMINAL BLOCK MOUNTED ON THE NORTH SIDE OF THE POLE.

LEGEND

4 CIRCUIT - SEE CONDUCTOR SCHEDULE SHEET 5.



ELECTRICAL PLAN
1"=10'

TRAFFIC SIGNAL PHASE SCHEMATIC
NTS

EQUIPMENT SCHEDULE

LOC	EQUIPMENT	TYPE	DESCRIPTION
①	CONTROLLER	MODEL 170E	PROVIDED BY THE CITY WITH TYPE 332 CABINET
②	SERVICE CABINET	III-BF	EXISTING
③	PULL BOX	30"X48"	CITY TRAFFIC STD PART IV & STD 730
④	PULL BOX (12 REQ'D)	No. 5	CITY TRAFFIC STD PART IV & STD 730
⑤	PULL BOX (3 REQ'D)	No. 6	CITY TRAFFIC STD PART IV & STD 730

POLE COORDINATE DATA / POLE SCHEDULE

POLE	CENTER OF BASE STATION	CENTER OF BASE OFFSET	STANDARD TYPE	STANDARD HT	MAST ARM SIG	MAST ARM LUM	LUMINAIRE	SIGNAL MOUNTING VEHICLE			SIGNAL MOUNTING PED	PPB	
①	18+10.45	33.67'LT	1A	10'				TV-2-T				ø6	
②	18+12.80	29.36'RT	24-3-100	30'	35'	20'	100W LED	MAS	MAS	SV-1-T	SP-1-T	ø6	F= 14 PLACE VIDEO DETECTION CAMERA ON POLE SHAFT PER SPECIAL PROVISIONS. PLACE OPTICOM 10 FEET FROM END OF SMA. 20' LMA PER ES-6E DETAIL A TYPE 31
③	1+42.90	14.40'LT	1A	10'				TV-2-T			SP-1-T	ø8	
④	1+43.80	14.27'RT	17-2-100	30'	15'	6'	100W LED	MAS		SV-1-T		ø8	PLACE OPTICOM 5 FEET FROM END OF SMA.
⑤	17+52.84	27.77'RT	1A	10'				TV-2-T			SP-2-T	ø2	MOUNT SP-2-T ON NORTH SIDE OF POLE.
⑥	17+27.29	39.81'LT	19-3-100	30'	30'	20'	100W LED	MAS	MAS	SV-1-T	SP-1-T	ø2	PLACE OPTICOM 10 FEET FROM END OF SMA. 20' LMA PER ES-6E DETAIL A TYPE 31
⑦	10+11.88	22.73'RT	1A	10'				TV-2-T			SP-1-T	ø4	
⑧	10+28.26	28.91'LT	17-2-100	30'	20'	12'	100W LED	MAS		SV-1-T	SP-2-T	ø4	PLACE OPTICOM 5 FEET FROM END OF SMA.

PROFESSIONAL ENGINEER * WINN LAGUE * No. 46002 Exp. 12/31/2016 * REGISTERED * STATE OF CALIFORNIA * CIVIL

PROFESSIONAL ENGINEER * KENNETH M. SPRINFIELD * No. 72470 Exp. 06/30/2017 * REGISTERED * STATE OF CALIFORNIA * TRAFFIC

No.	Date	Revision	By

DATE: 1-15-2016
SCALE: SHOWN
DWN BY:
CHK BY:

City of Santa Rosa Public Works

APPROVED: Deputy Director of Public Works - Engineering
By: Kathleen Ferguson Date 2/4/2016

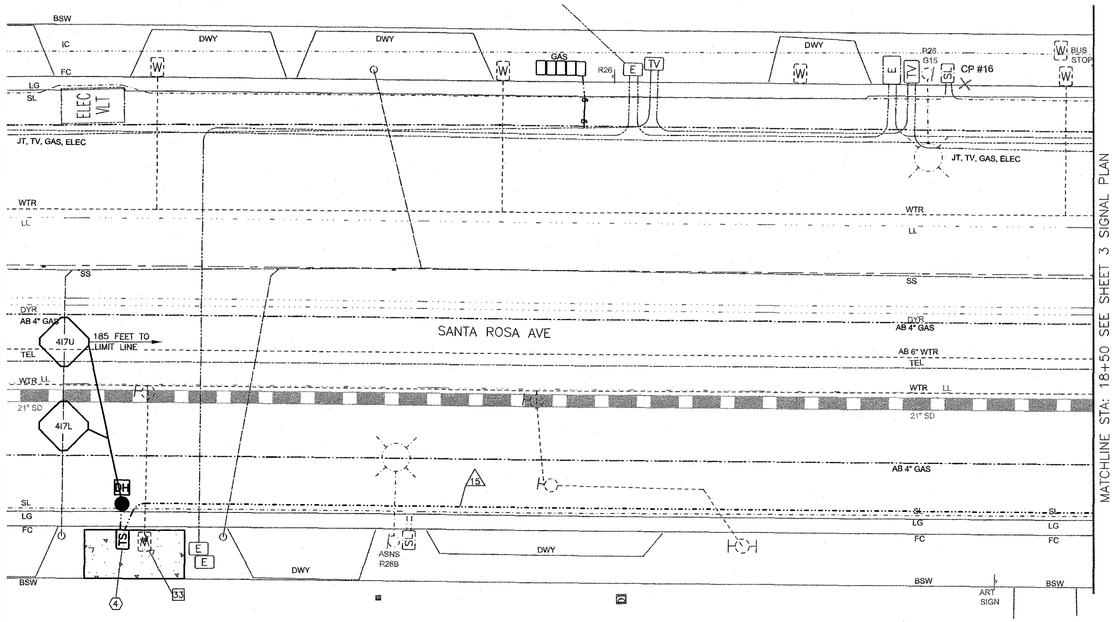
DOWNTOWN SANTA ROSA STREETSCAPE

ELECTRICAL PLAN

CONTRACT NO. C01627

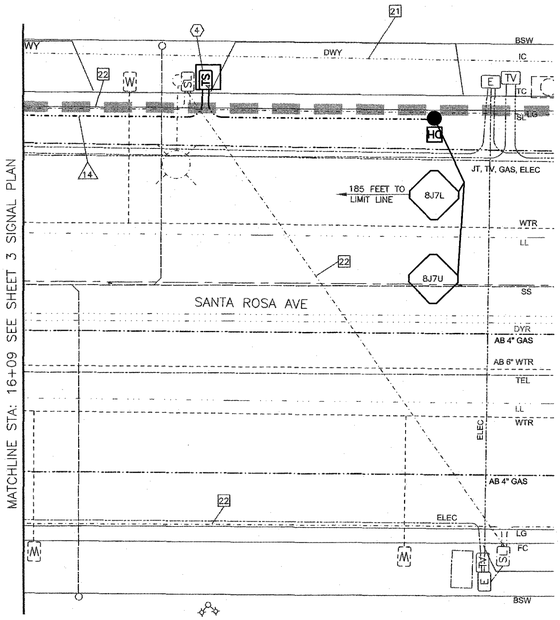
SHEET 4 OF 8

FILE NO. 2015-0035



SOUTHBOUND LOOP DETAIL
1"=10'

10 0 20



SOUTHBOUND LOOP DETAIL
1"=10'

CONSTRUCTION NOTES

21 PULL INTERCONNECT CABLE OUT OF EXISTING CONDUIT BETWEEN NE CORNER OF SANTA ROSA AVE / MILL ST AND SANTA ROSA AVE / MAPLE AVE CONTROLLER AND REINSTALL INTO NEW CONDUIT AND AND PULL BOXES CONNECTING TO THE NEW CONTROLLER. THIS CABLE WILL THEN CONNECT THE EXISTING CONTROLLER AT SANTA ROSA AVE / SONOMA AVE WITH THE NEW CONTROLLER AT SANTA ROSA AVE / MILL ST. INSTALL NEW 25 PAIR CABLE CONNECTING THE NEW CONTROLLER WITH THE EXISTING TRAFFIC SIGNAL CONTROLLER AT SANTA ROSA AVE AND MAPLE AVE. ALL CONDUCTORS SHALL BE LANDED IN BOTH CONTROLLERS PER CITY STANDARDS AND THE SPECIAL PROVISIONS.

22 REMOVE EXISTING PEDESTRIAN FLASHER CONDUCTORS FROM THE EXISTING STREET LIGHT SYSTEM BETWEEN SANTA ROSA AVE / SEBASTOPOL AVE INTERSECTION AND SANTA ROSA AVE / PINE ST INTERSECTION.

33 RAISE EXISTING WATER METER BOX TO GRADE.

LEGEND

REMOVE EXISTING SIDEWALK, CURB GUTTER AND/OR ASPHALT AND INSTALL SIDEWALK PER CITY STDS.

(4) PULL BOX - SEE EQUIPMENT SCHEDULE SHEET 4.

CONDUCTOR SCHEDULE

AWG	CIRCUIT	CONDUIT RUNS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
No.14	VEH ø 2				9	3	3		6		3	3	3					3		
	VEH ø 3 (FUTURE)				6				3	3							3			3
	VEH ø 3 FYA (FUTURE)				2				1	1							1			1
	VEH ø 4				9	3		3	3			3		3			3			3
	VEH ø 6				9	3	3		3		3							3		
	VEH ø 7 (FUTURE)				6	3		3	3			3		3						
	VEH ø 7 FYA (FUTURE)				2	1		1	1			1		1						
	VEH ø 8				9				6	3		3		3			3			3
	PED ø 2				4	2	2		2			2		2						
	PED ø 4				4	2		2										2		
	PED ø 6				4				2		2							2		
	PED ø 8				4				2	2		2		2						
	PPB ø 2				2	1		1	1			1		1						
	PPB ø 4				2	1	1											1		
	PPB ø 6				2				1	1							1			1
	PPB ø 8				2				1		1	1	1						1	
	PPB COMMON				8	2	1	1	4	1	1	2	1	1			1	1	1	1
	SIGNAL NEUTRAL						1	1		1	1		1	1			1	1	1	1
	P.E.C.			3														3		
	SPARES				9	3			6			3								
	TOTAL No.14			3	93	24	11	12	48	12	11	24	6	17			13	13	6	13
No.8	STREET LIGHT			2	2	2		2	2	2		2	2					2	2	
	SIGNAL NEUTRAL				1	1			1			1						1		
	EQUIP. GROUND			1	1	1	1	1	1	1	1	1	1				1	1	1	1
	TOTAL No.8			3	4	4	1	3	4	3	1	4	3	1			1	4	3	1
No.6	EQUIP. GROUND		1																	
No.4	SERVICE	3	2																	
	DETECTOR LEAD-IN CABLE				4				2			2			2	2				
	VIDEO & POWER CABLE				1				1	1										
	OPTICOM CABLE				1	1		1	1	1		1	1					1	1	
	1/4" PULL ROPE																			
	CONDUIT SIZE	2"	3"	3"	2–3"	3"	2"	2"	3"	2"	2"	3"	2"	2"	2"	2"	2"	2"	2"	2"
	CIRCUIT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		CONDUIT RUNS																		

REGISTERED PROFESSIONAL ENGINEER * VINCENT M. GIAMA * No. 46002 Exp. 12/31/2015 * CIVIL * STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER * VINCENT M. GIAMA * No. 46002 Exp. 12/31/2015 * TRAFFIC * STATE OF CALIFORNIA

No.	Date	Revision	By

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DWN BY:
CHK BY:

City of Santa Rosa Public Works

APPROVED: Deputy Director of Public Works – Engineering
By: Jeffrey Stewart Date 2/4/2016

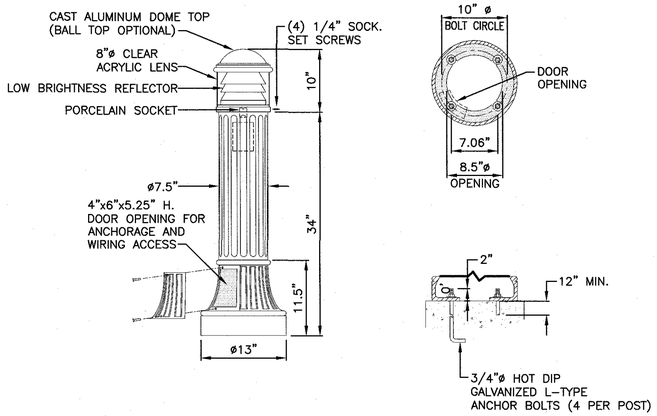
DOWNTOWN SANTA ROSA STREETSCAPE

LOOP PLAN & CONDUCTOR SCHEDULE

CONTRACT NO. C01627

SHEET 5 OF 8

FILE NO. 2015-0035

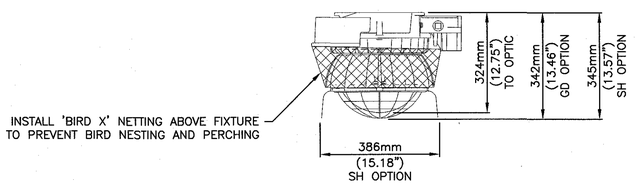


A/7 DECORATIVE CAST IRON LIGHTED BOLLARD DETAIL

NO SCALE

FURNISH AND INSTALL COLUMBIA SERIES CAST IRON LIGHTED BOLLARD MODEL:
BOL / C44 / 13 / LW-CL / BK WITH MODIFICATION FOR LED BULB OR APPROVED EQUAL.

UNIVERSAL MOUNTING (UN)



UPLIGHT SHIELD (SH) & OPTIC GUARD (GD) OPTIONS

B/7 UNDERPASS SOFFIT LIGHT DETAIL

NO SCALE

FURNISH AND INSTALL HOLOPHANE PETROLUX LED LIGHT MODEL:
PLED2-10L-4K-AS-UN-NA-CRW-L5-SH-GD OR APPROVED EQUAL.

GENERAL NOTES

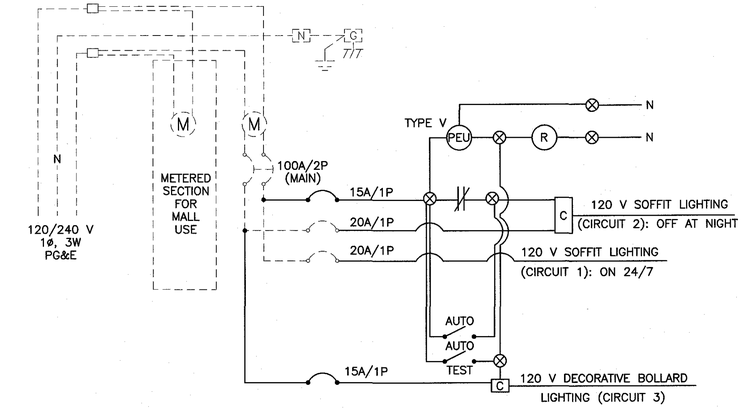
1. THE LOCATION OF LIGHT POLES AND LIGHTING EQUIPMENT IS APPROXIMATE. THE POSITION OF ALL POLES AND LIGHTS SHALL BE MARKED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO EXCAVATION FOR FOUNDATIONS.
2. CONDUITS TERMINATING IN A CURB BOX SHALL BE BROUGHT INTO THE BOX ON A GRADUAL UPWARD SWEEP OF UP TO 45 DEGREES. NO 90 DEGREE BENDS INTO THE BOX WILL BE ACCEPTED.
3. KEEP EXISTING LIGHTING IN WORKING ORDER BY PROTECTING THE EXISTING SYSTEM IN PLACE AND/OR INSTALLING TEMPORARY LIGHTING DURING THE PROGRESS OF WORK. SHUTDOWN IS ALLOWED FOR THE ALTERATION OR REMOVAL OF THE EXISTING ONCE THE NEW LIGHTING IS OPERATIONAL. SHUTDOWN SHALL NOT INTERFERE WITH THE REGULAR LIGHTING SCHEDULE.
4. ALL PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED ON PLANS.
5. ALL EXISTING LIGHTS ARE TO REMAIN UNLESS OTHERWISE NOTED.
6. EXISTING TWO-CIRCUIT SYSTEM SHALL REMAIN AND BE MODIFIED TO INCLUDE A THIRD CIRCUIT FOR BOLLARD SERVICE.

NOTES (THIS SHEET ONLY)

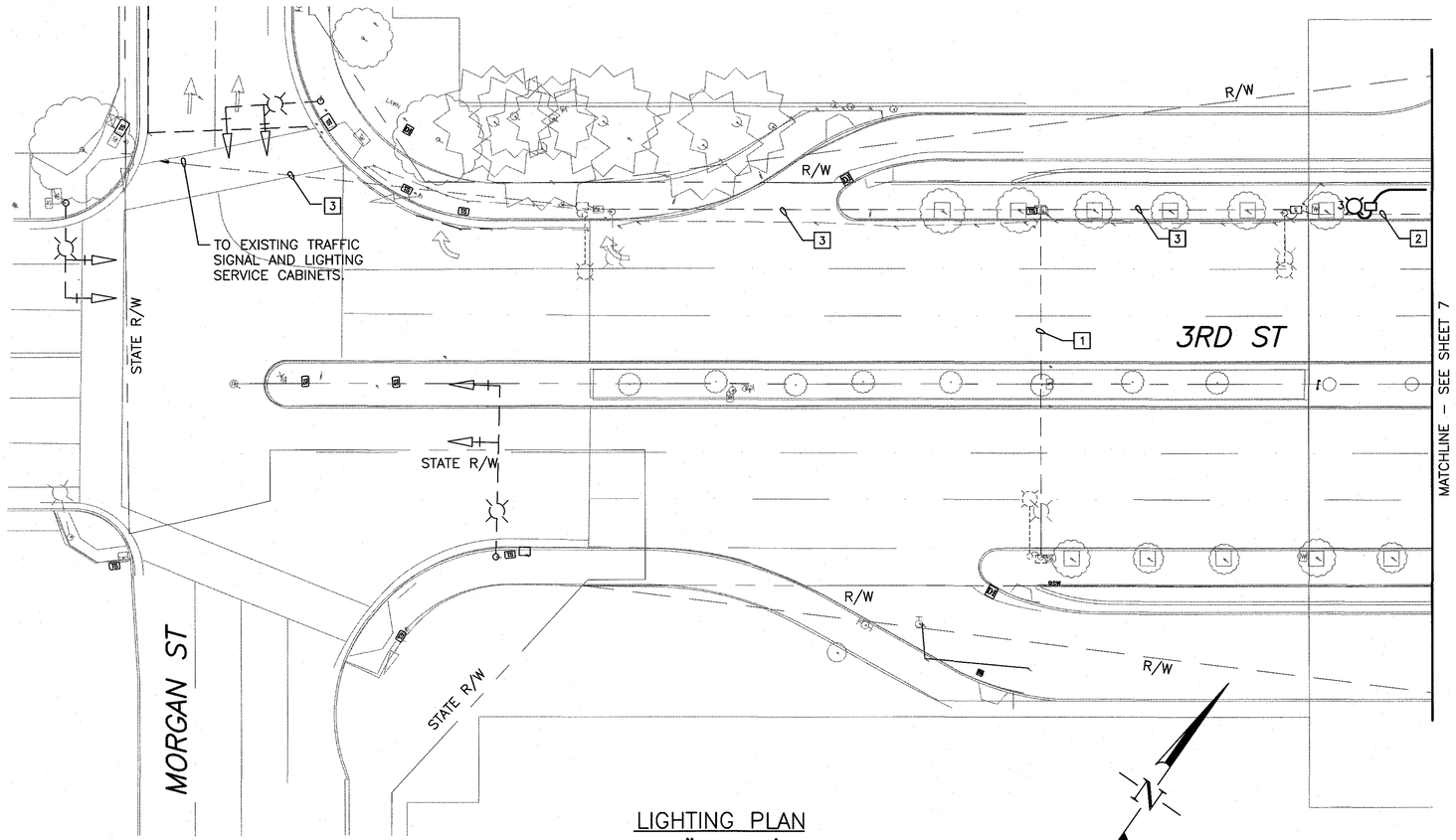
1. EX. 2" GRC, 2#8 (CITY STREET LIGHTING),
2. EX. 2" GRC, 6 PR (TRAFFIC SIGNAL INTERCONNECT)
3. EX. 2" GRC, 6 PR (TRAFFIC SIGNAL INTERCONNECT), EX. 2" GRC, 2#8 (CITY STREET LIGHTING)

WIRING DIAGRAM LEGEND:

- [N] NEUTRAL BUS
- [G] GROUND BUS
- (M) METER
- (R) RELAY
- NORMAL CLOSED RELAY
- [C] CONTRACTOR



EXISTNG SERVICE MODIFICATION WIRING DIAGRAM



LIGHTING PLAN
1" = 20'

REGISTERED PROFESSIONAL ENGINEER TENNESSEE DANIEL C77560 CIVIL STATE OF CALIFORNIA

FEHR PEERS
San Francisco, CA 94104
(415) 348-0300

No.	Date	Revision	By

DATE: 01-22-16
SCALE: SHOWN
DWN BY: DH
CHK BY: JP/MJ

City of Santa Rosa
Public Works

APPROVED: Deputy Director of Public Works - Engineering
By: _____ Date 2/4/2016

DOWNTOWN SANTA ROSA STREETSCAPE

LIGHTING PLAN, LEGEND, NOTES, AND DETAILS

CONTRACT NO. C01627

SHEET 6 OF 8

FILE NO. 2015-0035

GENERAL NOTES

1. THE LOCATION OF LIGHT POLES AND LIGHTING EQUIPMENT IS APPROXIMATE. THE POSITION OF ALL POLES AND LIGHTS SHALL BE MARKED, VERIFIED, AND APPROVED BY THE ENGINEER PRIOR TO EXCAVATION FOR FOUNDATIONS.
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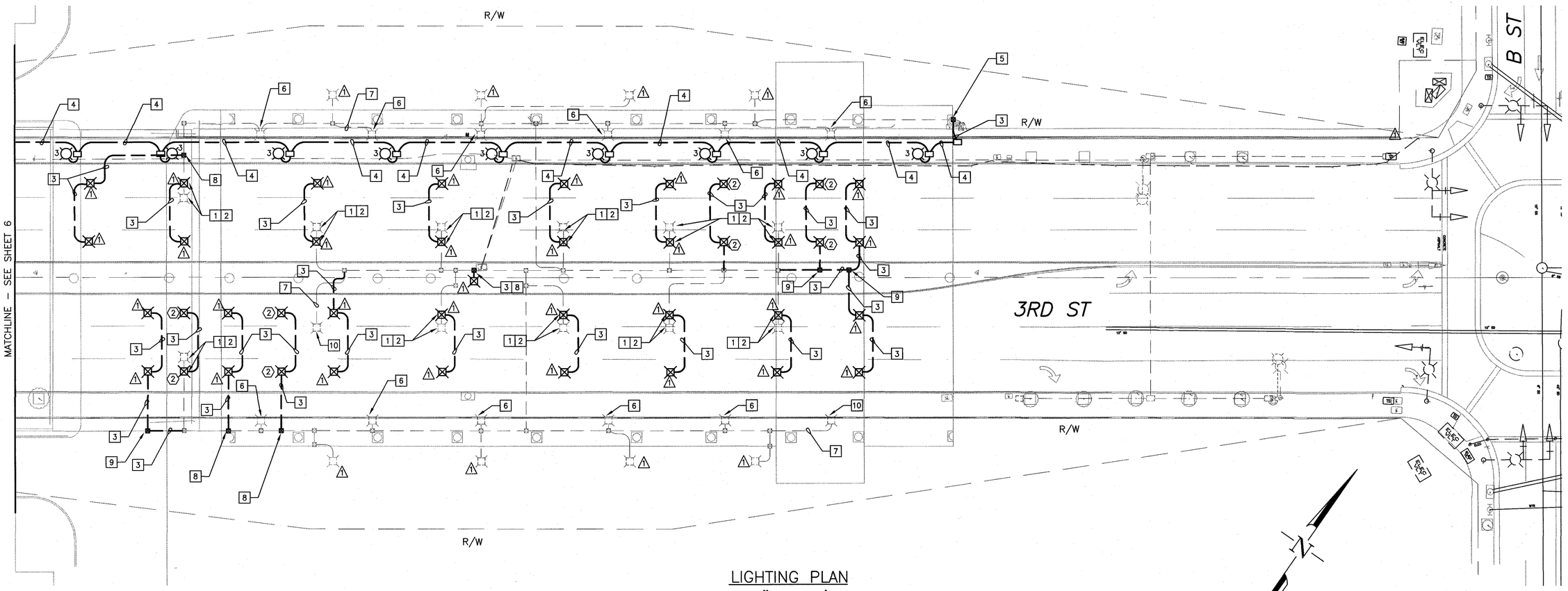
6. EXISTING TWO-CIRCUIT SYSTEM SHALL REMAIN AND BE MODIFIED TO INCLUDE A THIRD CIRCUIT FOR BOLLARD SERVICE.

LEGEND

- DECORATIVE LIGHTED BOLLARD. SEE DETAIL A ON SHEET 6.
- UNDERPASS SOFFIT LIGHT. SEE DETAIL B ON SHEET 6.
- EXISTING LIGHT STANDARD
- EXISTING SOFFIT LIGHT
- PROPOSED SURFACE MOUNTED JUNCTION BOX.
- EXISTING SURFACE MOUNTED JUNCTION BOX.
- PROPOSED PULLBOX, NO. 5 PER CITY STANDARD 601
- EXISTING PULLBOX
- PROPOSED CONDUIT
- EXISTING CONDUIT
- 1 2 PROPOSED CIRCUIT NUMBERS FOR OVERHEAD LIGHTING
- 3 PROPOSED CIRCUIT NUMBERS FOR BOLLARD LIGHTING

CONSTRUCTION NOTES (THIS SHEET ONLY)

1. REMOVE EXISTING SOFFIT LIGHT AND SALVAGE TO THE CITY. INSTALL NEW SOFFIT LIGHT PER DETAIL ON SHEET 6.
2. INTERCEPT EXISTING CONDUIT AND EXTEND TO NEW LIGHT. REMOVE AND REINSTALL EXISTING AND NEW CONDUCTORS AS REQUIRED TO CONNECT NEW LIGHT TO EXISTING LIGHTING CIRCUIT.
3. 3/4" GRC, 2#10 (120V LTG), 1#10G.
4. 1"C, 2#10 (120V LTG), 1#10G.
5. INTERCEPT EXISTING CONDUIT AND INSTALL NEW JUNCTION BOX FOR CONNECTION TO NEW BOLLARD LIGHT CONDUIT.
6. REMOVE EXISTING SOFFIT LIGHT AND SALVAGE TO THE CITY. INSTALL CONDUIT AND CONDUCTORS TO MAINTAIN EXISTING LIGHTING CIRCUITS.
7. REMOVE EXISTING CONDUIT AND CONDUCTOR.
8. INTERCEPT EXISTING CONDUIT AND INSTALL NEW JUNCTION BOX FOR CONNECTION TO NEW SOFFIT LIGHT CONDUIT.
9. INSTALL NEW JUNCTION BOX FOR CONNECTION TO NEW SOFFIT LIGHT CONDUIT.
10. REMOVE EXISTING SOFFIT LIGHT AND SALVAGE TO THE CITY.



LIGHTING PLAN
1" = 20'

REGISTERED PROFESSIONAL ENGINEER HEJWEESEY MARK J. C77560 STATE OF CALIFORNIA CIVIL

FEHR & PEERS
San Francisco, CA 94104
(415) 348-0300

No.	Date	Revision	By

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CHK BY: JP/MJ

City of Santa Rosa Public Works

APPROVED: Deputy Director of Public Works – Engineering
By: _____ Date 2/4/2016

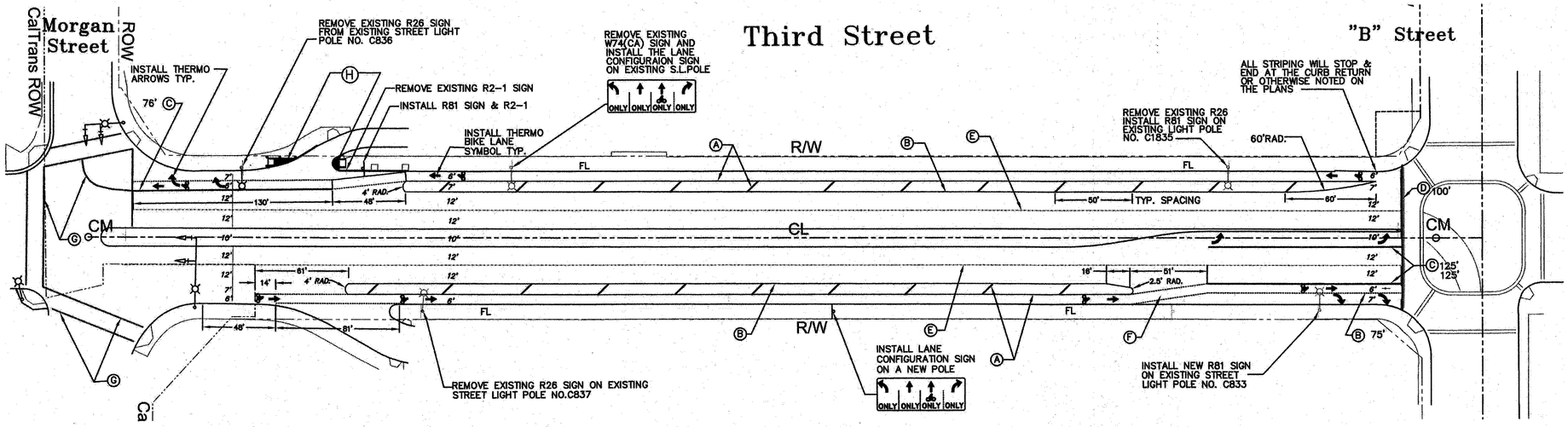
DOWNTOWN SANTA ROSA STREETSCAPE

LIGHTING PLAN, LEGEND, NOTES, AND DETAILS

CONTRACT NO. C01627

SHEET 7 OF 8

FILE NO. 2015-0035



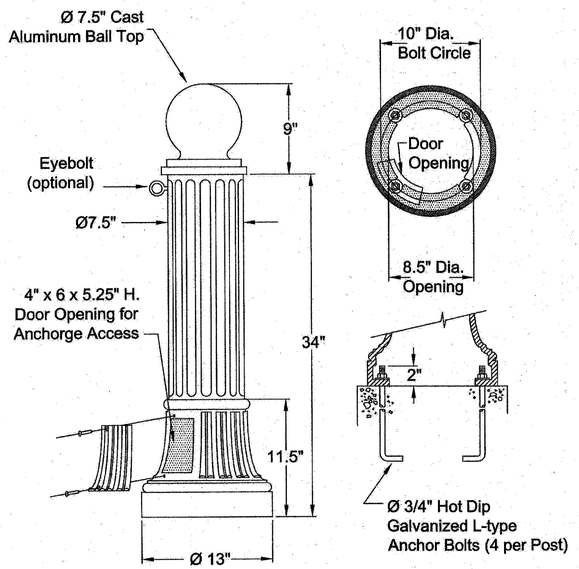
THIRD ST STRIPING PLAN
1"=10'

CONSTRUCTION NOTES

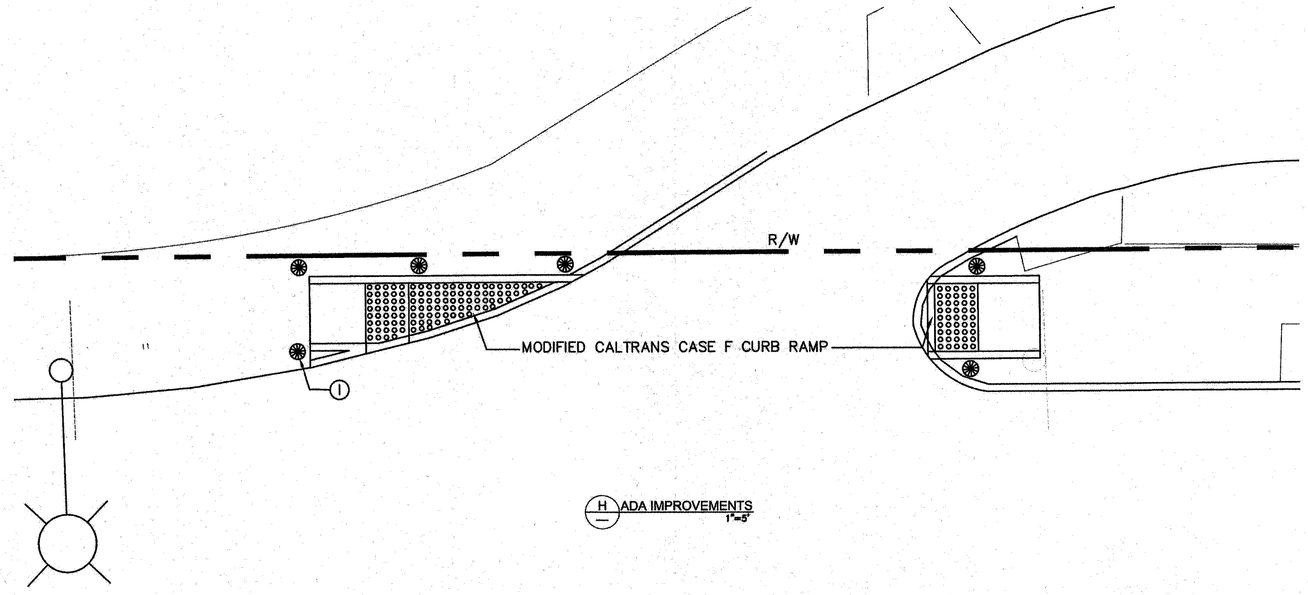
- INSTALL THERMOPLASTIC ARROW PER CSP A24A TYP.
- INSTALL THERMOPLASTIC BIKE LOOP DETECTOR SYMBOL PER CSP A24C TYP.
- INSTALL THERMOPLASTIC BIKE LANE SYMBOL AND ARROW PER CSP A24A, A24C TYP.
- (A) INSTALL 4" THERMOPLASTIC RIGHT EDGE LINE PER CSP A20B, DETAIL 27B (50' SPACING) TYP.
- (B) INSTALL 6" THERMOPLASTIC BIKE LANE PER CSP A20D DETAIL 39 TYP.
- (C) INSTALL 8" THERMOPLASTIC CHANNELIZING LINE PER CSP A20A DETAIL 38 TYP.
- (D) INSTALL 12" THERMOPLASTIC CROSSWALK OR LIMIT LINE PER CSP A24E TYP.
- (E) INSTALL LANE LINE PER CSP A20A DETAIL 10 TYP.
- (F) INSTALL GREEN PAINT PER CSP.
- (G) EXISTING MARKINGS TO REMAIN.
- (H) INSTALL CURB RAMPS PER DETAIL ON THIS SHEET.
- (I) INSTALL BOLLARD PER DETAIL ON THIS SHEET.

GENERAL CONSTRUCTION NOTES

1. EXISTING STRIPING WITHIN PROJECT LIMITS IS TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.



CAST ALUMINUM BOLLARD DETAIL
NTS



(H) ADA IMPROVEMENTS
1"=5'

DATE: 1-15-2016
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DWN BY:
CHK BY:

City of Santa Rosa
Public Works

APPROVED: Deputy Director of Public Works – Engineering
By _____ Date 2/4/2016

DOWNTOWN SANTA ROSA STREETSCAPE

STRIPING PLAN & ADA IMPROVEMENTS

CONTRACT NO. C01627

SHEET 8 OF 8

FILE NO. 2015-0035

No.	Date	Revision	By