CITY OF SANTA ROSA

IMPROVEMENT PLANS FOR

MONTGOMERY DR AND SOTOYOME ST SIGNAL MODIFICATION

GENERAL NOTES:

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

2. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 811 or 1-800-642-2444 NO LESS THAN 2 WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARK OUTS OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH SECTION 8-1.10 OF THE SPECIAL PROVISIONS.

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

4. ALL SEWER MANHOLES, MAINLINE CLEANOUTS 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. CONTRACTOR SHALL PROTECT AND PRESERVE CITY MONUMENTS. CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER 10 WORKING DAYS IN ADVANCE FOR REFERENCING OF EXISTING MONUMENTS THAT WILL BE DISTURBED. CONTRACTOR SHALL RECONSTRUCT DISTURBED MONUMENTS IN ACCORDANCE WITH CITY STANDARD 280.

6. OVERHEAD UTILITY SERVICE DROPS ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF LIMITED CLEARANCES UNDER OVERHEAD UTILITY LINES AND LOW HANGING TREE BRANCHES. 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 DISPOSED OF AS GENERATED AND AT NO TIME SHALL CONTRACTOR PLACE EXCAVATED MATERIAL AT THE WORK SITE.

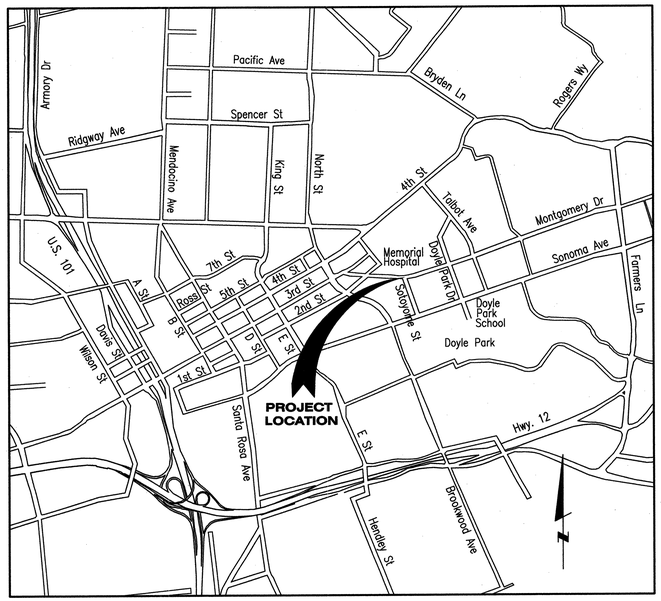
8. CONTRACTOR SHALL ONLY REMOVE EXISTING TREES OR SHRUBS AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

9. FOR CLARITY OF EXISTING SURFACE CONDITIONS, NOT ALL CROSSWALKS, STOP BARS, OR EXISTING PAVEMENT MARKINGS ARE SHOWN ON THE PLANS. TRAFFIC STRIPES, RAISED PAVEMENT MARKERS AND PAVEMENT MARKINGS DAMAGED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPLACED PER CITY OF SANTA ROSA TRAFFIC STANDARDS PART III, TRAFFIC MARKINGS. PATCHING OF DAMAGED MARKINGS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM ENGINEERING.

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:	
SEWER FITTINGS MANUFACTURER:	ADDITIONAL INFO:
M.H. MANUFACTURER:	
WATER PIPE TYPE:	
MANUFACTURER:	
WATER VALVE MANUFACTURER:	
WATER FITTINGS MANUFACTURER:	

CONTRACT No. C01908



LOCATION MAP
NOT TO SCALE

BEFORE EXCAVATING
CALL U.S.A.
UNDERGROUND SERVICE ALERT
811 or 800-642-2444
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS

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2.	Abbreviations and Notes
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5.	Interconnect Plan - Montgomery Dr
6.	Interconnect Plan - Sotoyome St
7.	Montgomery Dr and Sotoyome St Site Plan

REGISTERED PROFESSIONAL ENGINEER — ROBERT M. SPRINKLE — No. 02403 — EXP. 6-30-21 — TRAFFIC — STATE OF CALIFORNIA

APPROVED: ROBERT M. SPRINKLE,
Deputy Director – Traffic Engineering
BY: _____ DATE: 10/22/2020

REGISTERED PROFESSIONAL ENGINEER — GRANT H. DAVIS — No. 88167 — EXP. 3/31/22 — CIVIL — STATE OF CALIFORNIA — 10/21/20

NO.	DATE	REVISION	BY	DEPT.	SIGNATURE	DATE
				Design/Const		4/2/20
				Survey		10/23/20
				TPW Field Svc's		10/23/20
				Traffic		10/23/20
				Storm Water		11/3/20

SCALE: AS SHOWN
DWN BY:
DATE: October 2020
CHK BY:

APPROVED: Assistant City Manager of Public Works
By Jason Nutt Date 11/6/20

MONTGOMERY DR AND SOTOYOME ST SIGNAL MODIFICATION

Cover Sheet

CONTRACT NO. C01908

SHEET 1 OF 7

FILE NO. 2020-0017

ABBREVIATIONS

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

BENCH LEVEL DATA:

C–199 Sonoma Ave. at Brookwood Ave.; City Disk in well monument at CL intersection
173.950 (Coordinate Monument G–274) 12/85

C–198 Brookwood Ave. at Second St., City Disk in well monument at CL intersection
171.286 (Coordinate Monument G–376) 8/85

CONTROL DATA				
POINT	NORTHING	EASTING	ELEV	DESCRIPTION
CP #1	1923906.948	6360704.257	176.11	CHIS "X" IN TOC ON NE CORNER
CP #2	1923916.833	6360656.507	177.48	CHIS "X" IN TOC ON NW CORNER

CONSTRUCTION NOTES:

1. LOCATE TRAFFIC SIGNAL STANDARDS AS SHOWN ON THE PLANS AND IN THE POLE SCHEDULE.
2. CONTRACTOR SHALL INSTALL CONDUIT AND CONDUCTORS INTO THE P.G.&E. SPLICE BOX PRIOR TO P.G.&E. SERVICE SPLICE PER CITY STD. 733A AT THE LOCATION SHOWN ON THE PLANS.
3. ALL LOOPS SHALL BE INSTALLED A MINIMUM OF TWO FEET FROM THE NEAREST EDGE OF ANY MANHOLE, VALVE, OR MONUMENT.
4. INSTALL CONDUIT WITH MINIMUM COVER PER THE SPECIAL PROVISIONS. WHERE SIGNAL CONDUIT CANNOT BE INSTALLED WITH MINIMUM COVER ABOVE EXISTING UTILITIES, IT MUST BE INSTALLED UNDER EXISTING UTILITIES.
5. TRENCHES LESS THAN 12" WIDE SHALL BE BACKFILLED PER CITY STD. 215, NARROW TRENCH, EXCEPT THAT THE CDF SHALL BE A TWO SACK CEMENT SAND SLURRY. MONTGOMERY DR AND SONOMA AVE ARE ARTERIALS, SOTOYOME ST IS A COLLECTOR.
6. TRENCHES 12" AND WIDER SHALL BE BACKFILLED PER CITY STD. 215. MONTGOMERY DR AND SONOMA AVE ARE ARTERIALS, SOTOYOME ST IS A COLLECTOR.
7. ALL SPOILS SHALL BE REMOVED AS THEY ARE GENERATED AND DISPOSED OF OFF-SITE AS REQUIRED IN THE SPECIAL PROVISIONS.
8. CONTRACTOR SHALL HAND DIG TRENCHES AT CROSSINGS WITH EXISTING CONDUIT AND OTHER UTILITIES.
9. RECORD PLANS INDICATE THE EXISTING STREET SECTIONS ARE COMPOSED OF THE FOLLOWING; MONTGOMERY DR, 1.0' TO 1.25' OF ASPHALT CONCRETE, SONOMA AVE, 0.5' OF ASPHALT CONCRETE OVER 0.75' OF CTB, SOTOYOME ST, 0.55' OF ASPHALT CONCRETE.
10. PEDESTRIAN HEADS SHALL BE LED WITH COUNT DOWN FEATURE IN COMPLIANCE WITH THE PROVISIONS OF MUTCD SECTION 4E.07, "COUNTDOWN PEDESTRIAN SIGNALS". LED SYMBOLS SHALL BE SOLID LED PATTERNS. "OUTLINE" PATTERNS ARE NOT ACCEPTABLE. NUMERICAL UNITS SHALL BE NINE INCHES IN HEIGHT, AND HAVE A WIDTH OF TWO LEDS. SINGLE WIDTH NUMBERS ARE NOT PERMITTED.
11. PEDESTRIAN PUSH BUTTONS SHALL BE ADA COMPATIBLE, IN2 2-WIRE POLARA NAVIGATOR SYSTEM WITH A CARD RACK CONTROL UNIT OR APPROVED EQUAL.
12. TWO 2" CONDUITS SHALL BE INSTALLED FOR TRAFFIC SIGNAL INTERCONNECT AT THE LOCATIONS SHOWN ON THE PLANS. ONE CONDUIT SHALL CONTAIN A PULL TAPE PER STANDARD SPEC SECTION 86-2.05C AND THE OTHER SHALL CONTAIN FIBER OPTIC/COPPER COMPOSITE CABLE. AN ALLOWABLE COMPOSITE CABLE IS THE SUPERIOR ESSEX, P/N 72012336S, 12 SMF, 6 PAIR - 22 GAUGE CONDUCTOR, OR EQUAL. EACH PAIR SHALL BE COLOR CODED OR NUMBERED BY PAIRS AND INSTALLED WITH NO SPLICES. TERMINAL STRIPS SHALL BE INSTALLED IN THE NEW AND EXISTING CONTROLLER CABINET(S), AND THE CABLE ATTACHED TO THE TERMINAL STRIPS IN AN ORGANIZED AND NEAT MANNER SO COMMUNICATION THROUGH THE SYSTEM IS COMPLETE AFTER INSTALLATION.
13. OPTICAL DETECTOR GTT OPTICOM MODEL 722 OR 721, OR APPROVED EQUAL SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR TEN FEET FROM THE END OF THE TRAFFIC SIGNAL MASTARM AT THE LOCATIONS SHOWN ON THE PLANS. A PHASE SELECTOR GTT OPTICOM MODEL 764 FOUR CHANNEL OR APPROVED EQUAL SHALL BE PROVIDED BY CONTRACTOR AND INSTALLED BY THE CITY. LEAD-IN CABLE GTT MODEL 138 OR APPROVED EQUAL SHALL BE INSTALLED AT THE LOCATIONS INDICATED ON THE CONDUCTOR SCHEDULE.
14. EXISTING EQUIPMENT NOT TO BE REUSED SHALL BECOME THE PROPERTY OF CONTRACTOR, EXCEPT FOR EQUIPMENT CALLED OUT ON THE PLANS TO BE SALVAGED, SHALL BE RETURNED TO THE CITY MUNICIPAL SERVICES CENTER, 55 STONY POINT ROAD.
15. EXISTING STREET NAME AND REGULATORY SIGNS MOUNTED ON TRAFFIC SIGNAL MASTARMS AND SIGNAL POLES SHALL BE REMOUNTED ON NEW SIGNAL MASTARMS AND POLES BY THE CITY. NEW G-7 STREET NAME AND REGULATORY SIGNS AND BRACKETS WILL BE PROVIDED AND INSTALLED ON THE SIGNAL MAST ARMS BY THE CITY AT THE LOCATIONS SHOWN ON THE PLANS. NEW STREET NAME SIGNS AND TRAFFIC REGULATORY SIGNS AND HARDWARE WHICH ARE NOT TO BE MOUNTED ON TRAFFIC SIGNAL MASTARMS OR SIGNAL POLES SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR AT THE LOCATIONS SHOWN ON THE PLANS PER CITY AND CALTRANS STANDARDS. EXISTING STREET NAME SIGNS AND TRAFFIC REGULATORY SIGNS WHICH ARE NOT ON TRAFFIC SIGNAL MASTARMS OR SIGNAL POLES SHALL BE RELOCATED BY CONTRACTOR AS DIRECTED BY THE ENGINEER.

REGISTERED PROFESSIONAL ENGINEER
BRENT H. ORTNER
No. 88167
EXP. 3/31/22
CIVIL
STATE OF CALIFORNIA
10/21/20

City of Santa Rosa

NO.	DATE	REVISION	BY

DATE: October 2020 CHK BY:
SCALE: DWN BY:

MONTGOMERY DR AND SOTOYOME ST SIGNAL MODIFICATION

Abbreviations and Notes

CONTRACT NO. C01908

SHEET 2 OF 7

FILE NO. 2020–0017

SIGNAL NOTES:

6", 8" AND 10" GAS TRANSMISSION FACILITIES IN THE AREA
CONTRACTOR SHALL COORDINATE WITH PG&E PRIOR TO EXCAVATING WITHIN 10FT OF ANY GAS TRANSMISSION FACILITY. PG&E REQUIRES A MINIMUM OF 48 HOURS NOTICE TO SCHEDULE AN INSPECTOR TO STANDBY WHILE YOU DIG AROUND A GAS TRANSMISSION LINE. YOU WILL NEED THE USA TICKET NUMBER, THE LOCATION (ADDRESS), THE DATE OF YOUR WORK AND THE DURATION OF YOUR WORK. THE PHONE NUMBER FOR THE "STANDBY LINE" IS 707-579-6356. LEAVE A MESSAGE WITH THE ABOVE INFORMATION AND SOMEONE WILL CALL YOU TO CONFIRM.

THE EXISTING SIGNAL SHALL REMAIN OPERATIONAL AT ALL TIMES UNTIL THE DAY OF THE CHANGE OVER TO THE NEW SIGNAL.

ALL EXISTING CONDUITS CONTAINING TRAFFIC SIGNAL CONDUCTORS SHALL BE ABANDONED AND THE CONDUCTORS REMOVED. EXISTING CONDUITS WITH STREETLIGHT CONDUCTORS SHALL REMAIN AND BE OPERATIONAL AT ALL TIMES.

INTERCONNECT NOTES:

TRAFFIC SIGNAL INTERCONNECT WHERE LOCATED BY USA CAN BE VERY SHALLOW. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WHERE LOCATED. ANY REPAIR TO INTERCONNECT OR ELECTRICAL SHALL BE INSPECTED BY THE CITY OF SANTA ROSA PUBLIC WORKS ELECTRICAL DEPARTMENT. IF DAMAGED, THE ENTIRE RUN OF INTERCONNECT CABLE SHALL BE REPLACED WITHOUT SPLICE, CONTROLLER TO CONTROLLER, AT THE CONTRACTORS EXPENSE.

ALL NEW ELBOWS INSTALLED ON EXISTING OR NEW INTERCONNECT CONDUITS SHALL BE 36 INCH LONG RADIUS ELBOWS.

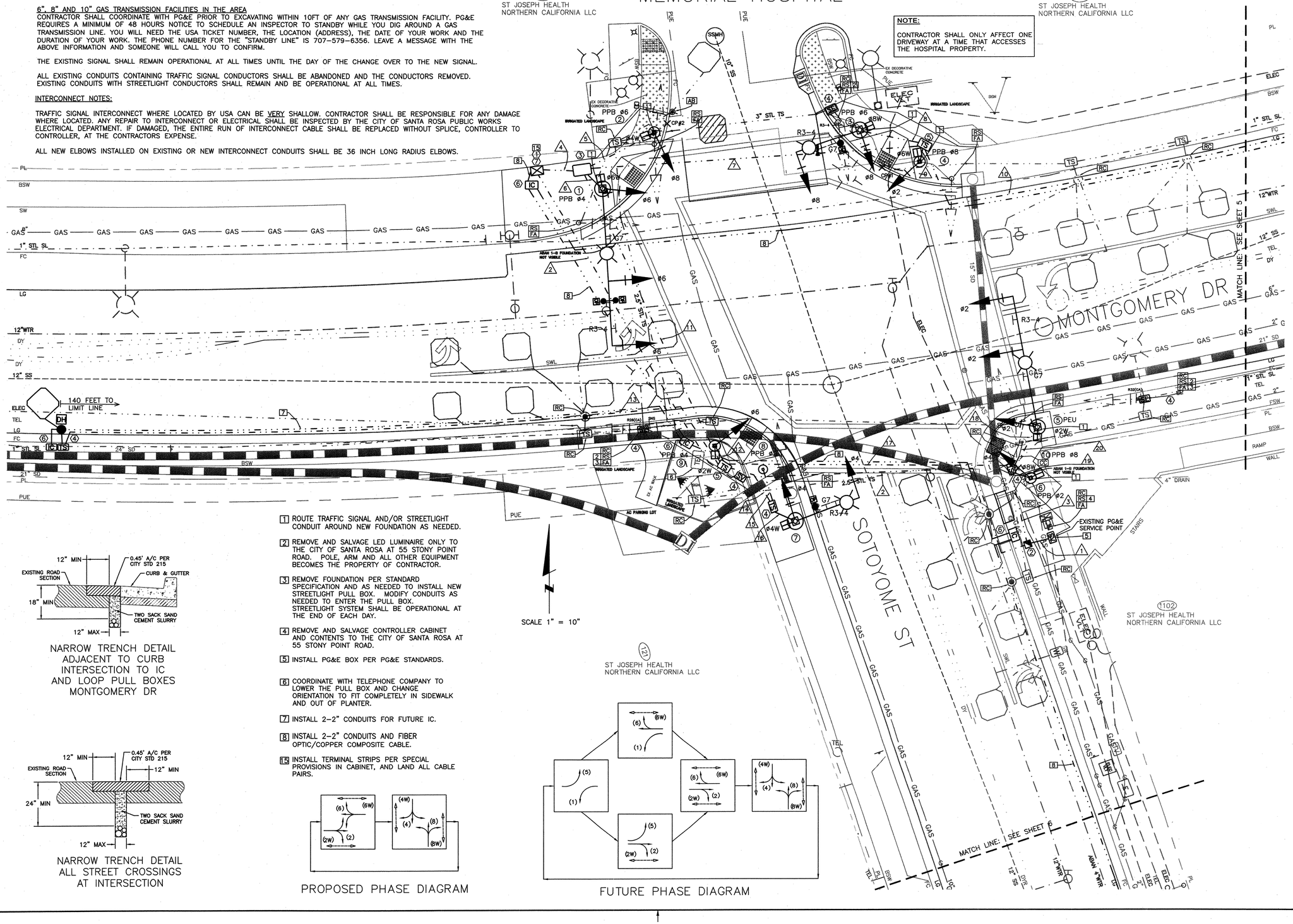
MEMORIAL HOSPITAL

(1165) ST JOSEPH HEALTH NORTHERN CALIFORNIA LLC

(1165) ST JOSEPH HEALTH NORTHERN CALIFORNIA LLC

NOTE:

CONTRACTOR SHALL ONLY AFFECT ONE DRIVEWAY AT A TIME THAT ACCESSES THE HOSPITAL PROPERTY.



SCALE 1" = 10"

1 ROUTE TRAFFIC SIGNAL AND/OR STREETLIGHT CONDUIT AROUND NEW FOUNDATION AS NEEDED.

2 REMOVE AND SALVAGE LED LUMINAIRE ONLY TO THE CITY OF SANTA ROSA AT 55 STONY POINT ROAD. POLE, ARM AND ALL OTHER EQUIPMENT BECOMES THE PROPERTY OF CONTRACTOR.

3 REMOVE FOUNDATION PER STANDARD SPECIFICATION AND AS NEEDED TO INSTALL NEW STREETLIGHT PULL BOX. MODIFY CONDUITS AS NEEDED TO ENTER THE PULL BOX. STREETLIGHT SYSTEM SHALL BE OPERATIONAL AT THE END OF EACH DAY.

4 REMOVE AND SALVAGE CONTROLLER CABINET AND CONTENTS TO THE CITY OF SANTA ROSA AT 55 STONY POINT ROAD.

5 INSTALL PG&E BOX PER PG&E STANDARDS.

6 COORDINATE WITH TELEPHONE COMPANY TO LOWER THE PULL BOX AND CHANGE ORIENTATION TO FIT COMPLETELY IN SIDEWALK AND OUT OF PLANTER.

7 INSTALL 2-2" CONDUITS FOR FUTURE IC.

8 INSTALL 2-2" CONDUITS AND FIBER OPTIC/COPPER COMPOSITE CABLE.

15 INSTALL TERMINAL STRIPS PER SPECIAL PROVISIONS IN CABINET, AND LAND ALL CABLE PAIRS.

NARROW TRENCH DETAIL ADJACENT TO CURB INTERSECTION TO IC AND LOOP PULL BOXES MONTGOMERY DR

NARROW TRENCH DETAIL ALL STREET CROSSINGS AT INTERSECTION

PROPOSED PHASE DIAGRAM

FUTURE PHASE DIAGRAM

REGISTERED PROFESSIONAL ENGINEER
MANTH PRAY
No. 88167
EXP. 3/31/22
CIVIL
STATE OF CALIFORNIA
5/21/20

City of Santa Rosa

NO.	DATE	REVISION	BY

DATE: October 2020
CHK BY:
SCALE: 1" = 10'
DWN BY:

MONTGOMERY DR AND SOTOYOME ST SIGNAL MODIFICATION

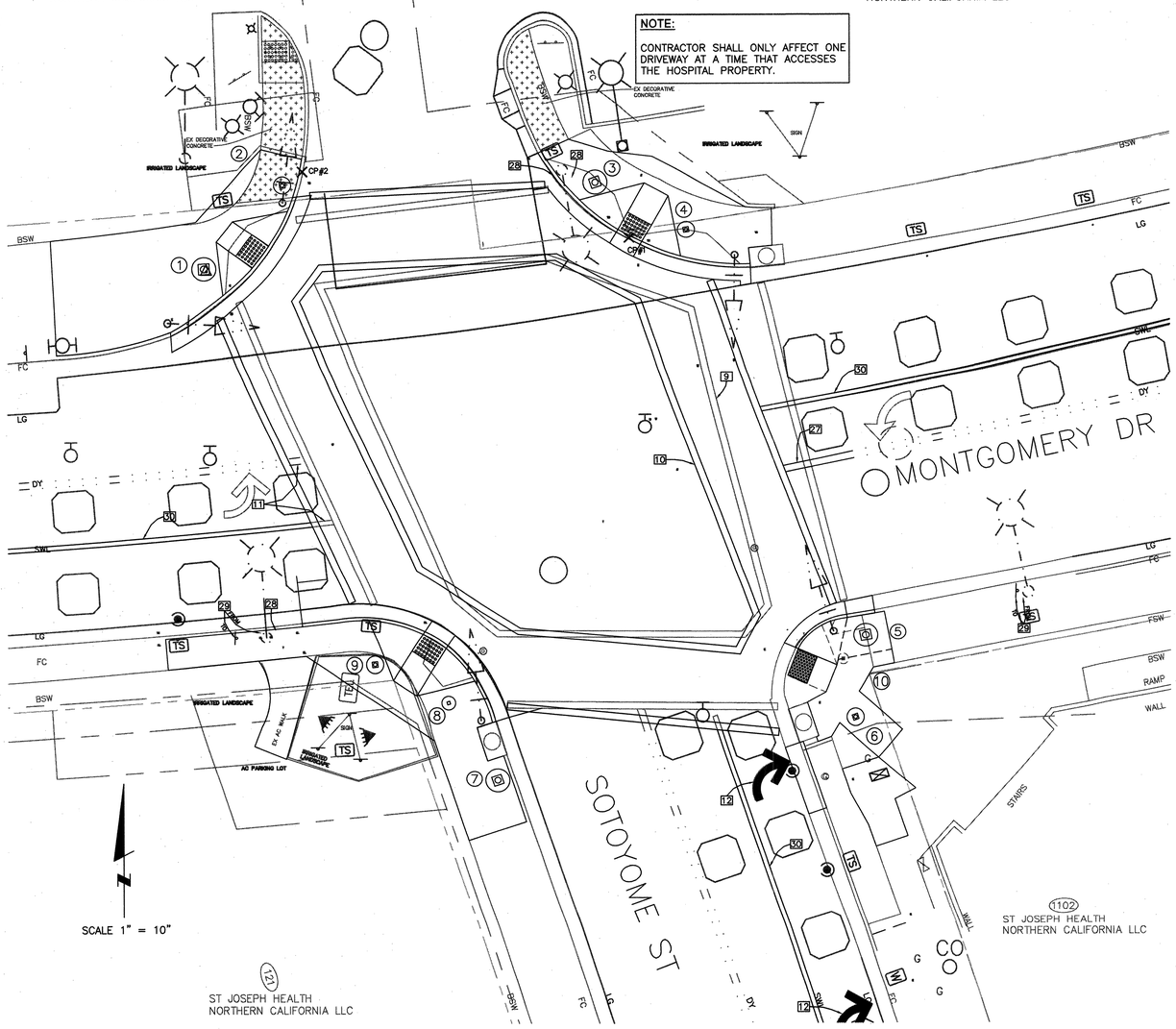
Electrical Plan

CONTRACT NO. C01908

SHEET 3 OF 7

FILE NO. 2020-0017

MEMORIAL HOSPITAL



SCALE 1" = 10"

[9] REMOVE ALL EXISTING CROSSWALK STRIPES (TYP).

[10] INSTALL 12" WHITE THERMOPLASTIC CROSSWALKS AT ALL CROSSINGS PER CITY STANDARDS AND AS DIRECTED BY THE ENGINEER.

[11] REMOVE STRIPING IN CONFLICT WITHIN NEW CROSSWALK LINES (TYP).

[12] REMOVE AND REPLACE WHITE THERMOPLASTIC "CITY" STYLE ARROW. (PER STD PLAN A24A TYPE IV ARROW DIMENSIONS)

[27] EXTEND STRIPING (PER STD PLAN A20A DETAIL 23 AND PER STD PLAN A20D DETAIL 38) TO NEW CROSSWALK LINE.

[28] SIGN(S) TO BE RELOCATED TO SIGNAL POLE BY OTHERS.

[29] RELOCATE SIGN TO NEW POLE AS SHOWN.

[30] INSTALL 8" WHITE THERMOPLASTIC CHANNELIZING LINE PER STATE STANDARD PLAN DETAIL 38, AND AS DIRECTED BY THE ENGINEER.

EQUIPMENT SCHEDULE

LOC	EQUIPMENT	TYPE	DESCRIPTION
(1)	CONTROLLER	MODEL 2070	PROVIDED BY THE CITY WITH TYPE 332 CABINET
(2)	SERVICE CABINET	TESCO III BF	CITY TRAFFIC STD. IV-D & STD.-731
(3)	PULL BOX	30"X48"	CITY TRAFFIC STD. STD.-730
(4)	PULL BOXES (8 REQ'D)	No. 5	CITY TRAFFIC STD. STD.-730
(5)	PULL BOXES (2 REQ'D)	No. 6	CITY TRAFFIC STD. STD.-730
(6)	PULL BOXES (7 REQ'D)	36"x24"	CLASS 3 COMPOSITE, FLARED SIDEWALL, MIN DEPTH 30 INCHES
(7)	BATTERY BACKUP		SEE SPECIAL PROVISIONS SECTION 86-3.02

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	20
No.14	VEH Φ 1(FUTURE)				6		3					3	3								
	VEH Φ 1FYA (FUTURE)				2		1					1	1								
	VEH Φ 2				6			3		3		3						3	3		
	VEH Φ 3																				
	VEH Φ 4				6							6			3		3	3		3	
	VEH Φ 5(FUTURE)				6			3		3		3						3	3		
	VEH Φ 5FYA (FUTURE)				2			1		1		1						1	1		
	VEH Φ 6				6		3					3	3								
	VEH Φ 7																				
	VEH Φ 8				6	3		3	3												
	PED Φ 2				4							4	2					2	2		
	PED Φ 4				4	2						2			2		2				
	PED Φ 6				4		2	2		2											
	PED Φ 8				4			2	2			2						2		2	
	PPB Φ 2				4							4			2	2		2		2	
	PPB Φ 4				4		2					2	2								
	PPB Φ 6				4	2		2	2												
	PPB Φ 8				4			2		2		2						2			2
	PPB NEUTRAL				8	1	1	2	1	1		4	1		1	1		2		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	89	9	13	23	9	13		46	13		9	3	6	23	13	9	4
No.8	STREET LIGHT			2			2	2	2			2			2		2	2	2		
	SIGNAL NEUTRAL				1			1				1						1			
	EQUIP. GROUND			1	1	1	1	1	1	1		1	1		1	1	1	1	1	1	1
	TOTAL No.8			3	2	1	3	4	3	1		4	1		3	1	3	4	3	1	1
No.6	EQUIP. GROUND		1																		
No.4	SERVICE	2	2																		
	OPTICOM CABLE				3		1	1	1			1			1		1				
	DETECTOR LEAD-IN CABLE				2			1			1	1		1							
	VIDEO CABLE				1			1	1												
	CONDUIT SIZE	2"	2"	2"	2-3"	2"	2"	3"	2"	2"	2"	3"	2"	2"	2"	1"	2"	3"	2"	2"	1"
	CIRCUIT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		CONDUIT RUNS																			

POLE SCHEDULE

LOC	STANDARD TYPE	HT.	MAST ARM SIG	MAST ARM LUM	LUMINAIRE	SIGNAL MOUNTING VEHICLE			PED	PPB	NOTES	NORTHING	EASTING	LOC
(1)	24-4-100	30'	35'	15'	LED PER 86-6.01A	SV-1-T	MAT	MAS	SP-1-T	4	F=14', 722 OPTICOM 10' FROM END OF SMA	1923902.2344	6360642.1398	(1)
(2)	1-A	10'				TV-1-T			SP-1-T	6		1923914.8758	6360653.6104	(2)
(3)	17-3-100	30'	15'	12'	LED PER 86-6.01A	SV-1-T	MAT		SP-1-T	6	721 OPTICOM 10' FROM END OF SMA, ALDIS VIDEO DETECTION ON LUMINAIRE	1923915.3434	6360699.2866	(3)
(4)	1-A	10'				TV-1-T			SP-1-T	8		1923908.2271	6360712.5742	(4)
(5)	19-4-100	30'	30'	15'	LED PER 86-6.01A	SV-1-T	MAT	MAS	SP-1-T		F=12', PEU ON TOP OF POLE SHAFT	1923848.5429	6360738.6596	(5)
(6)	1-A	10'				TV-1-T			SP-1-T	2		1923836.7213	6360737.1397	(6)
(7)	17-3-100	30'	15'	12'	LED PER 86-6.01A	SV-1-T	MAT		SP-1-T		721 OPTICOM 10' FROM END OF SMA	1923827.6072	6360684.9005	(7)
(8)	PPB POST	5'								2		1923838.8464	6360677.7403	(8)
(9)	1-A	10'				TV-1-T			SP-1-T	4		1923844.2816	6360667.0239	(9)
(10)	PPB POST EXISTING	5'								8		1923845.0147	6360735.3706	(10)

REGISTERED PROFESSIONAL ENGINEER
BRENT H. BAKER
No. 88167
EXP. 3/31/22
CIVIL
STATE OF CALIFORNIA
10/6/20

City of Santa Rosa

NO.	DATE	REVISION	BY

SCALE: 1" = 10'
DATE: October 2020
DWN BY:
CHK BY:

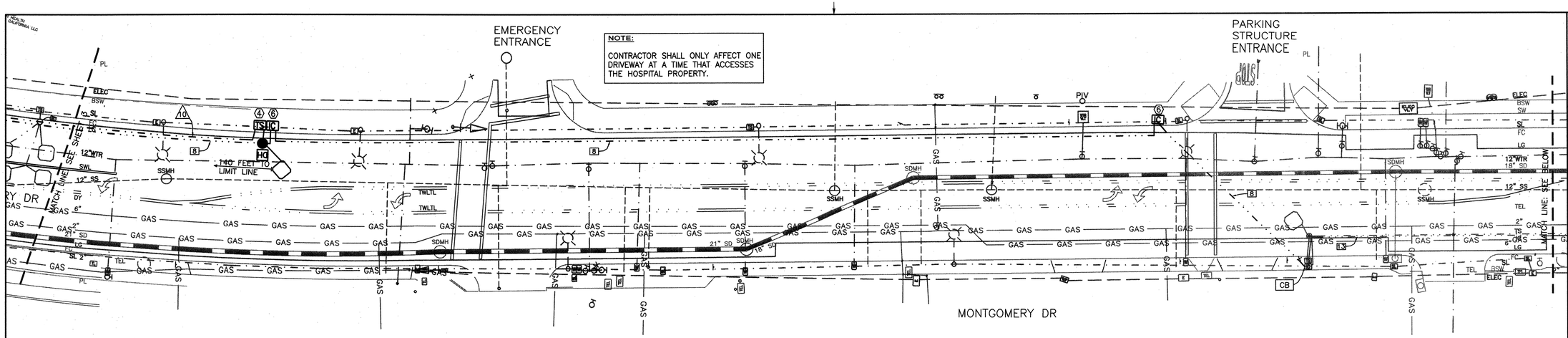
MONTGOMERY DR AND SOTOYOME ST SIGNAL MODIFICATION

Electrical Schedules, Signing and Striping

CONTRACT NO. C01908

SHEET 4 OF 7

FILE NO. 2020-0017



NOTE:

CONTRACTOR SHALL ONLY AFFECT ONE DRIVEWAY AT A TIME THAT ACCESSES THE HOSPITAL PROPERTY.

INTERCONNECT NOTES:

TRAFFIC SIGNAL INTERCONNECT WHERE LOCATED BY USA CAN BE VERY SHALLOW. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WHERE LOCATED. ANY REPAIR TO INTERCONNECT OR ELECTRICAL SHALL BE INSPECTED BY THE CITY OF SANTA ROSA PUBLIC WORKS ELECTRICAL DEPARTMENT. IF DAMAGED, THE ENTIRE RUN OF INTERCONNECT CABLE SHALL BE REPLACED WITHOUT SPLICE, CONTROLLER TO CONTROLLER, AT THE CONTRACTORS EXPENSE.

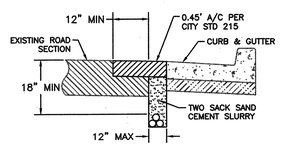
ALL NEW ELBOWS INSTALLED ON EXISTING OR NEW INTERCONNECT CONDUITS SHALL BE 36 INCH LONG RADIUS ELBOWS.

SCALE 1" = 20"

[8] INSTALL 2-2" CONDUITS AND FIBER OPTIC/COPPER COMPOSITE CABLE PER DETAIL 1, 2, & 3 THIS SHEET.

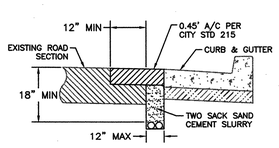
[13] INSTALL NEW FIBER OPTIC/COPPER COMPOSITE CABLE IN EXISTING CONDUIT.

[15] INSTALL TERMINAL STRIPS PER SPECIAL PROVISIONS IN CABINET, AND LAND ALL CABLE PAIRS.



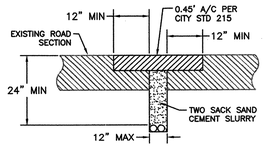
NARROW TRENCH DETAIL
ADJACENT TO CURB
MATCH LINE TO IC AND
LOOP PULL BOXES
MONTGOMERY DR

DETAIL 1



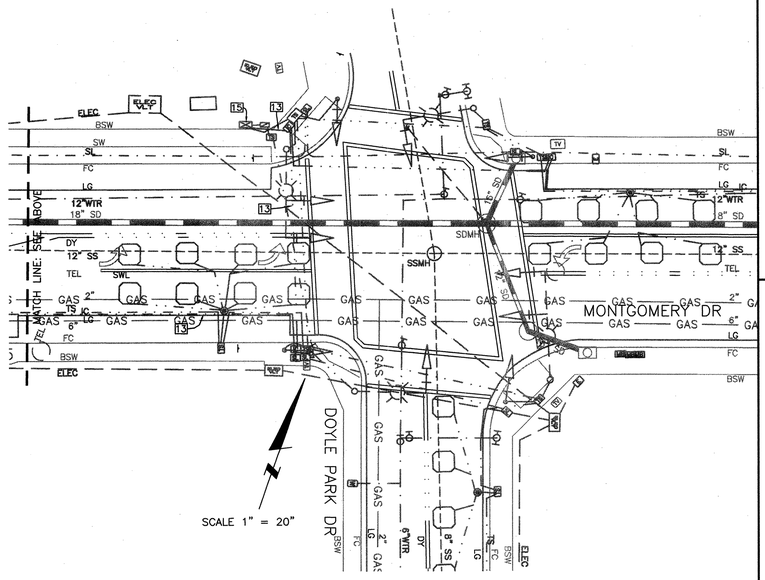
NARROW TRENCH DETAIL
ADJACENT TO CURB
IC AND LOOP PULL BOXES
TO STREET CROSSING
MONTGOMERY DR

DETAIL 2



NARROW TRENCH DETAIL
STREET CROSSING
MONTGOMERY DR

DETAIL 3



SCALE 1" = 20"

REGISTERED PROFESSIONAL ENGINEER
ROBERT H. [illegible]
No. 88167
EXP. 3/31/22
CIVIL
STATE OF CALIFORNIA
9/9/20

City of Santa Rosa

NO.	DATE	REVISION	BY

SCALE: 1" = 20'
DATE: October 2020
DWN BY:
CHK BY:

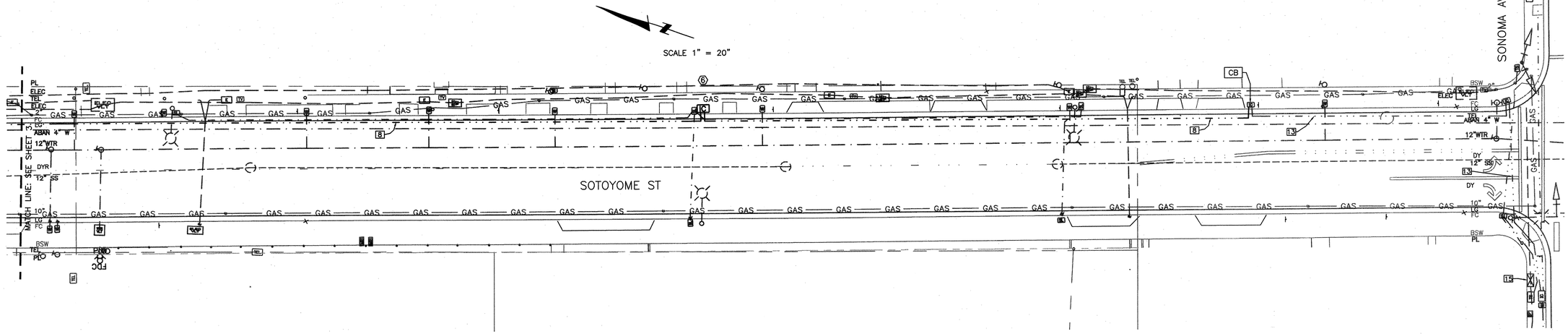
MONTGOMERY DR AND SOTOYOME ST SIGNAL MODIFICATION

Interconnect Plan - Montgomery Dr

CONTRACT NO.
C01908

SHEET 5 OF 7

FILE NO. 2020-0017



[8] INSTALL 2–2" CONDUITS AND FIBER OPTIC/COPPER COMPOSITE CABLE, PER DETAIL 1 THIS SHEET.

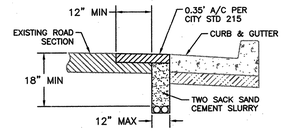
[13] INSTALL NEW FIBER OPTIC/COPPER COMPOSITE CABLE IN EXISTING CONDUIT.

[15] INSTALL TERMINAL STRIPS PER SPECIAL PROVISIONS IN CABINET, AND LAND ALL CABLE PAIRS.

INTERCONNECT NOTES:

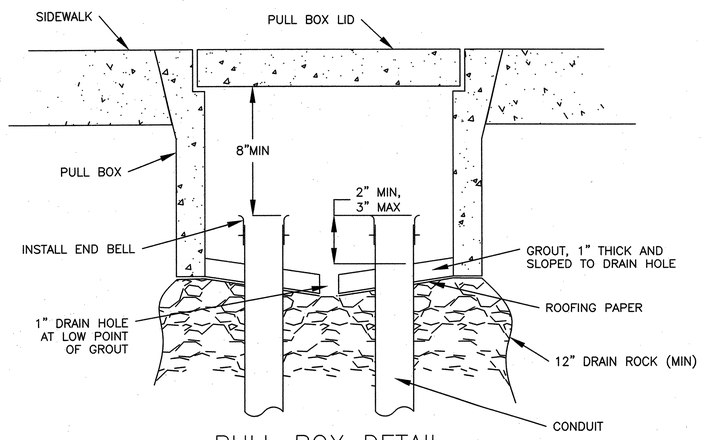
TRAFFIC SIGNAL INTERCONNECT WHERE LOCATED BY USA CAN BE VERY SHALLOW. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WHERE LOCATED. ANY REPAIR TO INTERCONNECT OR ELECTRICAL SHALL BE INSPECTED BY THE CITY OF SANTA ROSA PUBLIC WORKS ELECTRICAL DEPARTMENT. IF DAMAGED, THE ENTIRE RUN OF INTERCONNECT CABLE SHALL BE REPLACED WITHOUT SPLICE, CONTROLLER TO CONTROLLER, AT THE CONTRACTORS EXPENSE.

ALL NEW ELBOWS INSTALLED ON EXISTING OR NEW INTERCONNECT CONDUITS SHALL BE 36 INCH LONG RADIUS ELBOWS.



NARROW TRENCH DETAIL
ADJACENT TO CURB
SOTOYOME ST

DETAIL 1



PULL BOX DETAIL

N.T.S.

REGISTERED PROFESSIONAL ENGINEER
GRANT H. BALL
No. 88167
EXP. 3/31/22
CIVIL
STATE OF CALIFORNIA
8/31/20

City of Santa Rosa

NO.	DATE	REVISION	BY

DATE: October 2020
CHK BY:
SCALE: 1" = 20'
DWN BY:

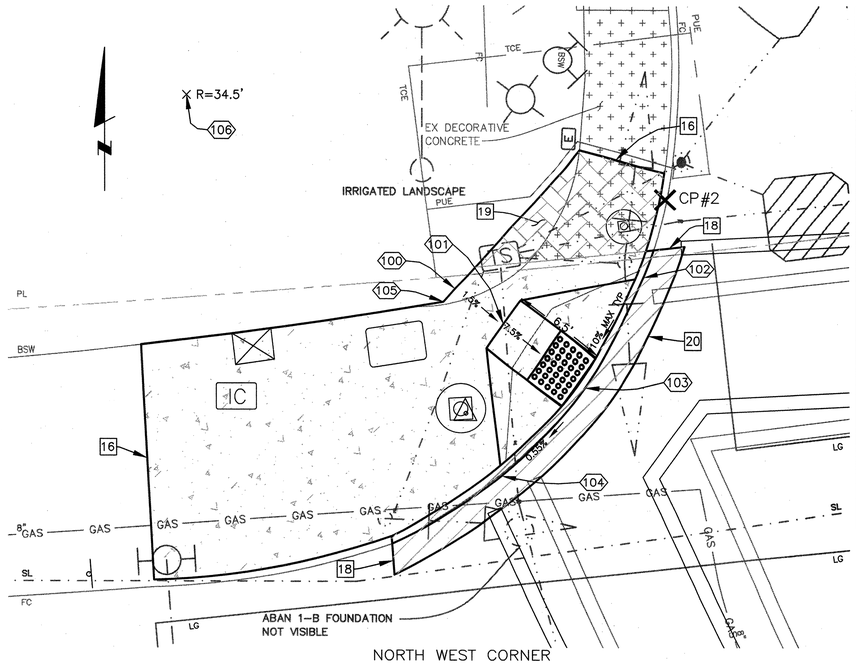
MONTGOMERY DR AND SOTOYOME ST SIGNAL MODIFICATION

Interconnect Plan - Sotoyome St

CONTRACT NO. C01908

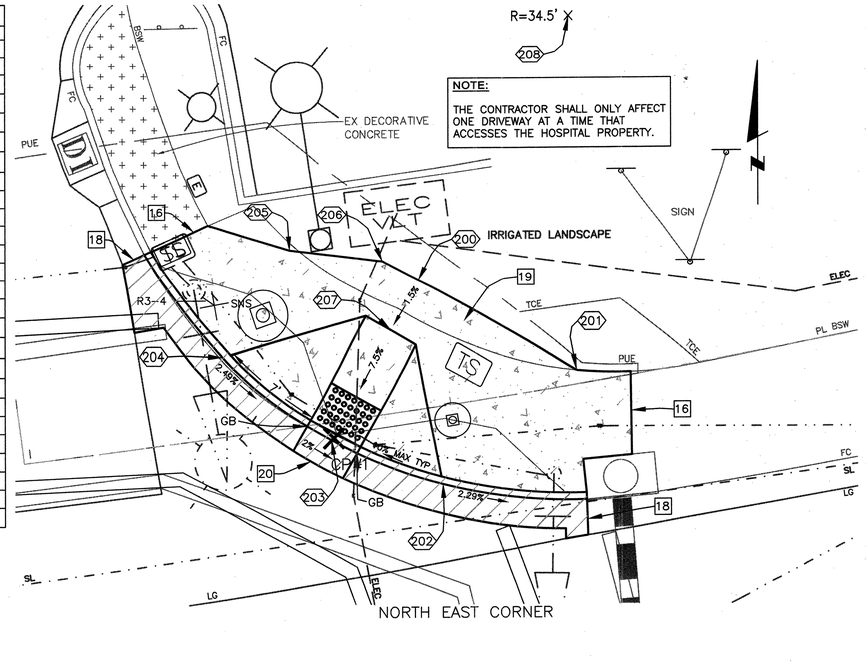
SHEET 6 OF 7

FILE NO. 2020–0017

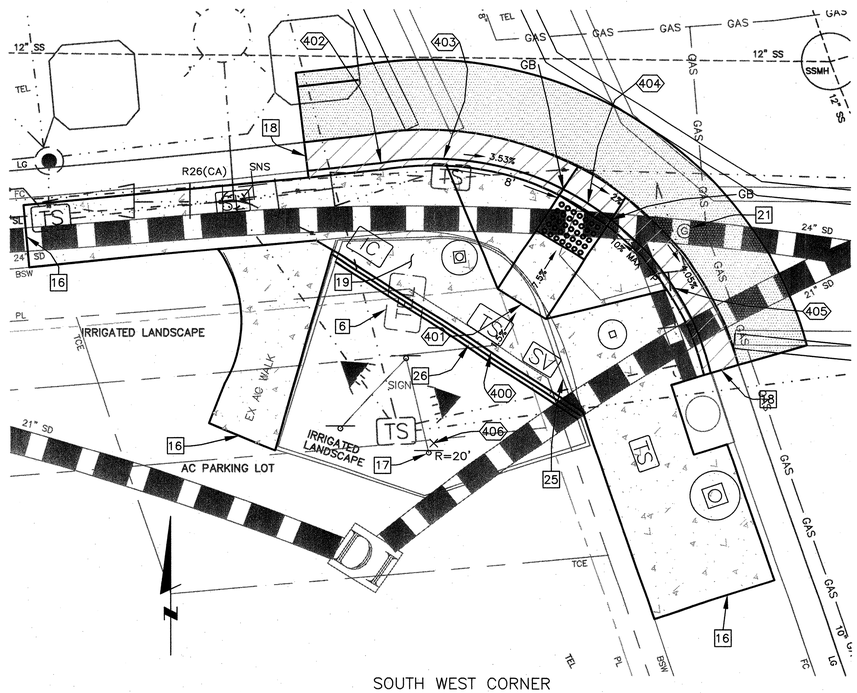


NORTH WEST CORNER

POINT TABLE				
POINT	NORTHING	EASTING	ELEV	DESCRIPTION
100	1923910.2830	6360641.75750	177.48	℄ PED RAMP @ BSW
101	1923907.8362	6360645.1349	177.42	℄ PED RAMP @ TOP OF RAMP
102	1923911.1427	6360654.9657	176.93	FL @ TOP OF WING
103	1923903.6900	6360650.8580	176.89	FL @ ℄ PED RAMP
104	1923897.4229	6360644.9992	176.85	FL @ TOP OF WING
105	1923909.3530	6360640.9407	--	AP @ BSW
106	1923923.9502	6360622.9331	--	RADIUS POINT
200	1923917.7832	6360710.1918	176.38	℄ PED RAMP @ BSW
201	1923911.6444	6360721.2679	--	AP @ BSW
202	1923903.6478	6360711.9025	175.50	FL @ TOP OF WING
203	1923906.8062	6360704.0937	175.68	FL @ ℄ RAMP
204	1923912.5894	6360696.4321	175.89	FL @ TOP OF WING
205	1923920.0163	6360701.1472	--	AP @ BSW
206	1923919.1807	6360707.6704	--	AP @ BSW
207	1923914.2866	6360708.2493	176.33	℄ PED RAMP @ TOP OF RAMP
208	1923936.4903	6360720.7287	--	RADIUS POINT
300	1923851.7041	6360735.8978	175.76	FL @ TOP OF WING
301	1923852.1545	6360741.3764	--	AP @ FSW
302	1923842.7078	6360736.3941	--	RADIUS POINT
400	1923837.6129	6360669.2137	176.34	℄ PED RAMP @ BSW
401	1923840.9760	6360671.3792	176.28	℄ PED RAMP @ TOP OF RAMP
402	1923851.0667	6360661.5290	--	BC
403	1923851.3883	6360665.9170	175.96	FL @ TOP OF WING
404	1923848.2088	6360676.0365	175.64	FL @ ℄ PED RAMP
405	1923842.1465	6360682.0779	175.36	FL @ TOP OF WING
406	1923831.3484	6360665.1799	--	RADIUS POINT



NORTH EAST CORNER



SOUTH WEST CORNER

- REMOVE EXISTING SIDEWALK, LANDSCAPING AND ASPHALT, TO INSTALL NEW SIDEWALK, TYPE A PEDESTRIAN RAMP PER STATE STANDARD PLAN A88A, EXCEPT THE CONCRETE THICKNESS SHALL BE FOUR INCHES. WINGS SHALL BE SIX FEET UNLESS OTHERWISE NOTED.
- REMOVE AND REPLACE CURB AND GUTTER PER CITY STANDARD 241.
- REMOVE EXISTING SIDEWALK, AND LANDSCAPING TO INSTALL NEW COLORED SIDEWALK PER SPECIAL PROVISIONS 73-4.01A.
- REMOVE AND REPLACE A FIVE FOOT WIDE BY FOUR INCH DEEP AREA OF ASPHALT ADJACENT TO THE NEW CURB AND GUTTER. ASPHALT SHALL BE REMOVED AFTER THE CURB AND GUTTER HAS CURED SUFFICIENTLY TO NOT BE DAMAGED BY THE THE REMOVAL OR THE INSTALLATION OF NEW ASPHALT.

6 COORDINATE WITH TELEPHONE COMPANY TO LOWER THE PULL BOX AND CHANGE ORIENTATION TO FIT COMPLETELY IN SIDEWALK AND OUT OF PLANTER.

16 SAW CUT AND REMOVE CONCRETE AT JOINT OR AS DIRECTED. REPLACE SIDEWALK PER PLAN AND CITY STD 237.

17 PRESERVE AND PROTECT EXISTING SIGN. ALL DAMAGE BY CONTRACTOR SHALL BE REPAIRED AT CONTRACTORS EXPENSE TO THE SATISFACTION OF THE PROPERTY OWNER.

18 SAW CUT AND REMOVE CONCRETE AT JOINT OR AS DIRECTED. REPLACE CURB AND GUTTER PER PLAN AND CITY STD 241.

19 RELOCATE IRRIGATION OUTSIDE THE NEW SIDEWALK AREA.

20 SAW CUT THE EXISTING VALLEY GUTTER TWO FEET FROM THE FACE OF THE EXISTING FACE OF CURB. CONSTRUCT NEW CURB AND GUTTER PER CITY STD 241.

21 ADJUST GAS ANODE COVER TO GRADE AS NEEDED AND AS DIRECTED BY THE ENGINEER.

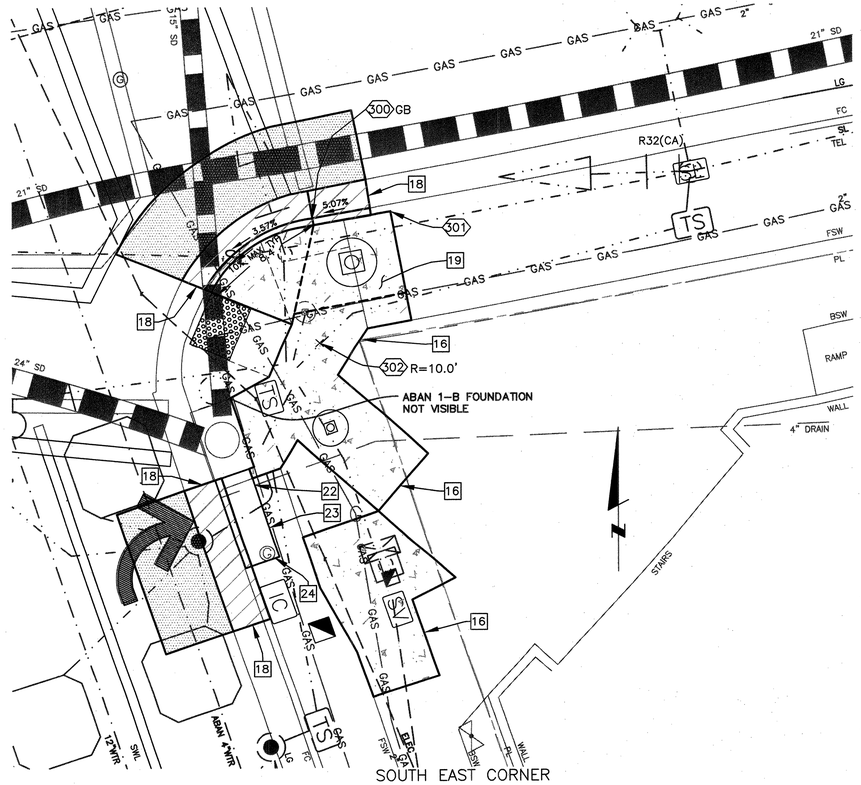
22 INSTALL EXISTING SIDEWALK DRAIN INTO NEW GALLERY AS DIRECTED BY THE ENGINEER.

23 INSTALL NEW SIX FOOT GALLERY PER CITY STANDARD 404 AND AS DIRECTED BY THE ENGINEER.

24 RELOCATE GAS ANODE FOR THE INSTALLATION OF THE STORM DRAIN GALLERY.

25 REMOVE, CLEAN, AND STOCK PILE EXISTING ROCK WALL.

26 REBUILD ROCK WALL AT THE BACK OF THE NEW SIDEWALK. MATCH STYLE OF EXISTING ROCK WALL PRIOR TO REMOVAL.



SOUTH EAST CORNER

REGISTERED PROFESSIONAL ENGINEER
KENNETH H. BAILEY
No. 88167
EXP. 3/31/20
CIVIL
STATE OF CALIFORNIA
3/6/20

City of Santa Rosa

NO.	DATE	REVISION	BY

SCALE: 1" = 5' DATE: October 2020
DWN BY: CHK BY:

MONTGOMERY DR AND SOTOYOME ST SIGNAL MODIFICATION

Montgomery Dr & Sotoyome St Site Plan

CONTRACT NO. C01908

SHEET 7 OF 7

FILE NO. 2020-0017