

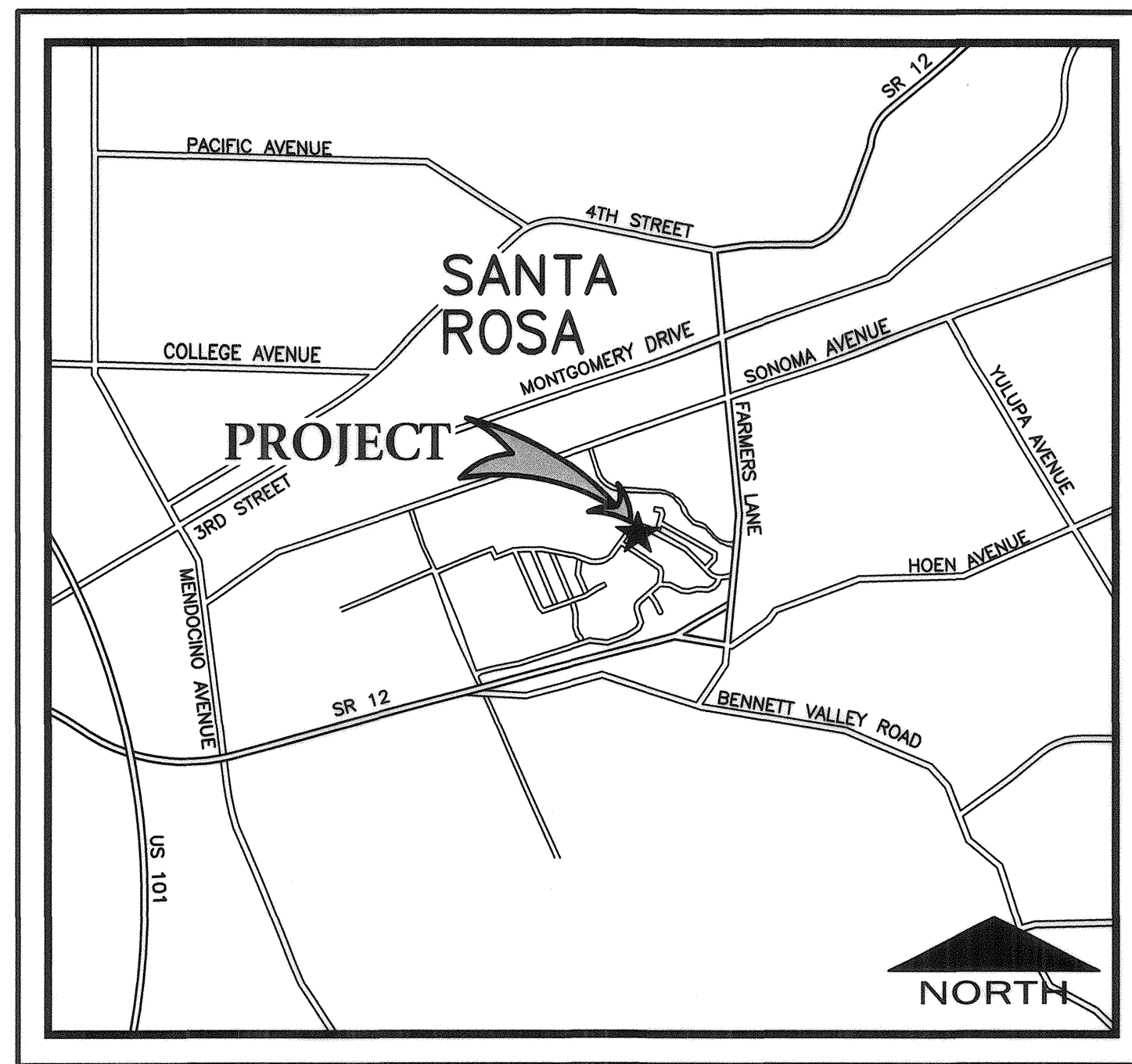


CITY OF SANTA ROSA

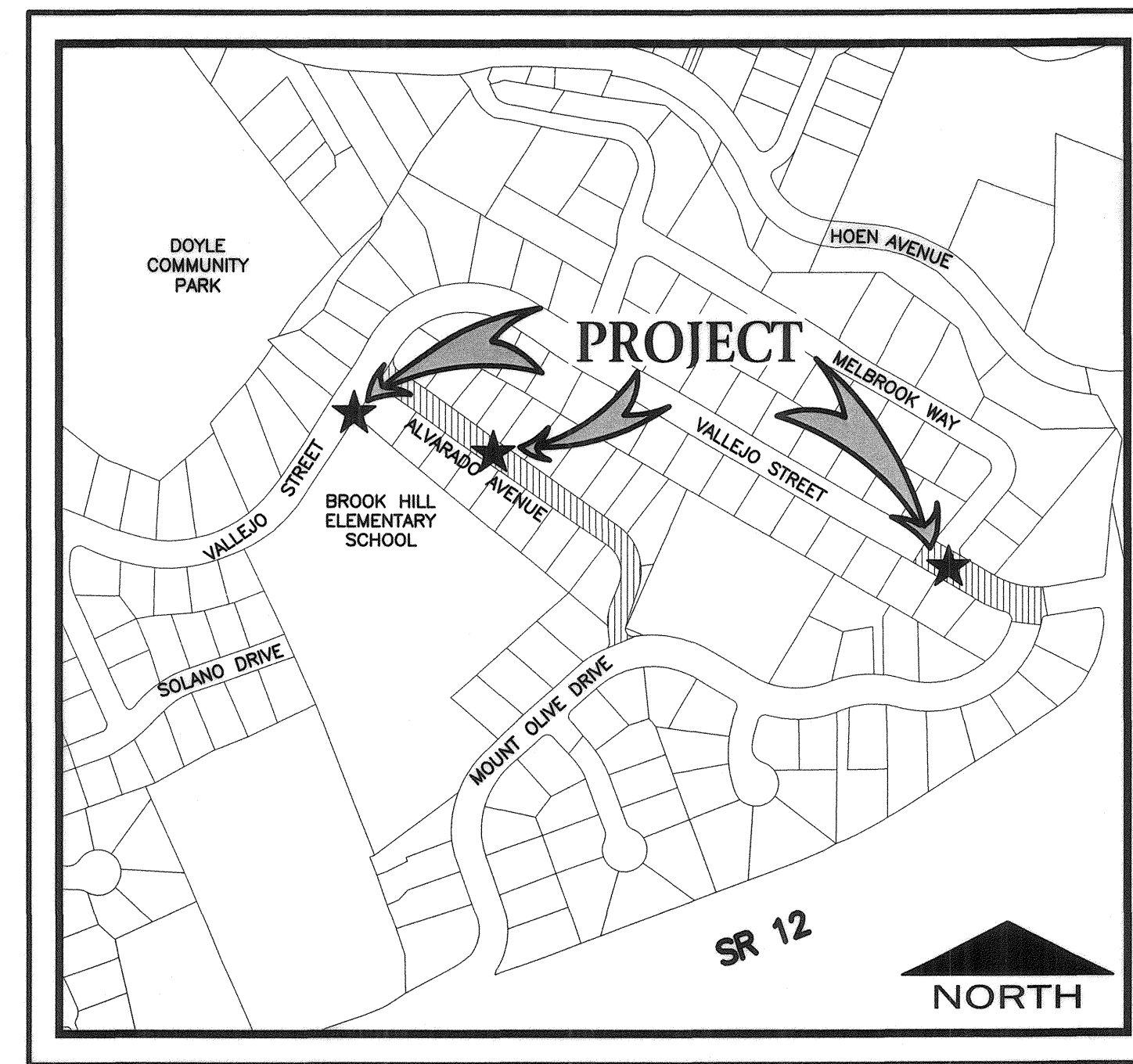
IMPROVEMENT PLANS FOR

ALVARADO AVE AND VALLEJO ST WATER AND SEWER IMPROVEMENTS

CONTRACT NO. C02004



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER
2	ABBREVIATIONS, LEGEND & NOTES
3	TYPICAL SECTIONS, KEY MAP & SURVEY CONTROL
4	PLAN & PROFILE ALVARADO AVENUE STA 10+00 - STA 14+20
5	PLAN & PROFILE ALVARADO AVENUE STA 14+20 - STA 18+50
6	PLAN & PROFILE VALLEJO STREET STA 20+00 - STA 24+00
7	PAVEMENT & MARKING PLAN
8	ALVARADO AVENUE CROSS SECTIONS STA 9+75 - STA 18+25
9	CURB RAMP DETAILS
10	MELBROOK GRADING PLAN

VALLEJO STREET TRUNK SEWER JUNCTION STRUCTURE MODIFICATIONS PREPARED BY MKM & ASSOCIATES STRUCTURAL ENGINEERS

11	LEGEND, ABBREVIATIONS AND SITE AERIAL
12	STRUCTURAL NOTES
13	STRUCTURAL DETAILS
14	JUNCTION STRUCTURE RECORD PLAN INFORMATION
15	PROJECT LOCATION & VALLEJO STREET PAVING LIMITS
16	APPROXIMATE LOCATION OF UNDERGROUND UTILITIES

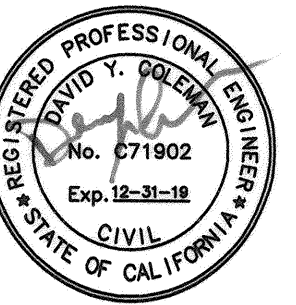
RECORD PLAN DATA

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:	

BEFORE EXCAVATING
CALL U.S.A.
UNDERGROUND SERVICE ALERT
811
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS

FINAL PAY ITEM(S)
BID ITEM(S) NAME AND QUANTITY

ROADWAY EXCAVATION 750 CY



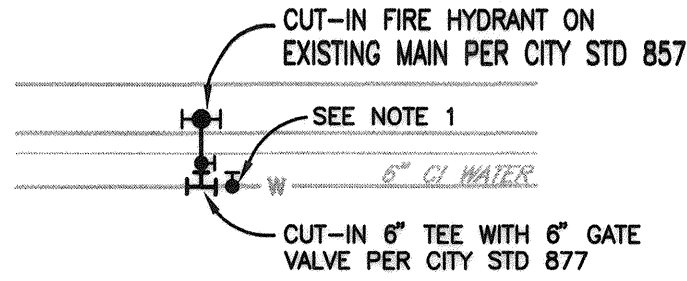
Design/Const	Survey	TPW Field Svc's	Utilities Op's	Traffic	Storm Water

NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: MAY 2018	CHK BY: JIN
DWN BY: DJK	APPROVED: Deputy Director - Engineering	Date: 6/16/18
	By: Lori Urbanek	

City of Santa Rosa	COVER
ALVARADO AVE AND VALLEJO ST WATER AND SEWER IMPROVEMENTS	
CONTRACT NO. C02004	
SHEET 1 OF 16	
FILE NO. 2017-0043	

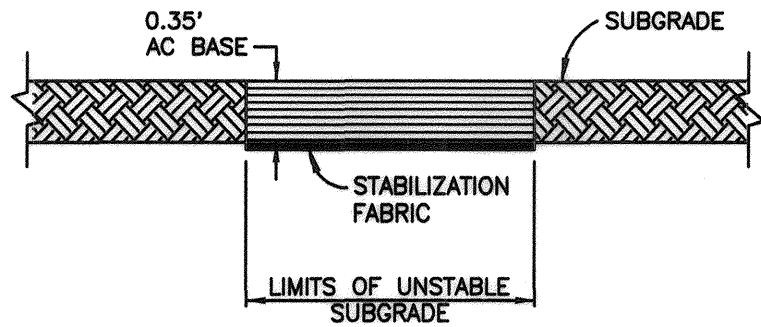
05-21-18 novorro 14408\dwg\4408 00\4406.00 COVER and KEY.dwg TAB: 03-TYP SEC & KEY



NOTES:
1. CONFIRM PLACEMENT OF LINE VALVE WITH ENGINEER.

NEW FIRE HYDRANT ON EXISTING MAIN

NOT TO SCALE

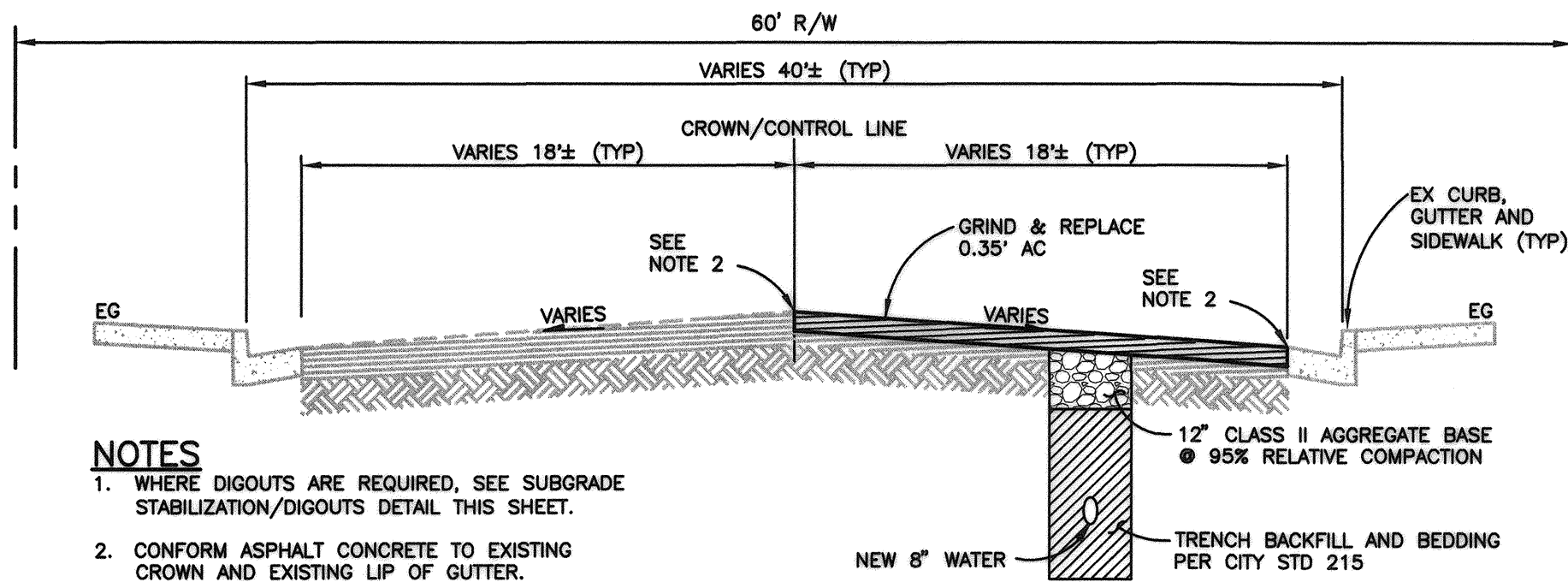


NOTES

- SUBGRADE STABILIZATION/DIGOUTS ARE NOT SHOWN ON THE PLAN SHEETS. EXACT LOCATIONS SHALL BE MARKED IN THE FIELD BY THE ENGINEER.
- SUBGRADE STABILIZATION/DIGOUTS SHALL BE PERFORMED AFTER ROADWAY EXCAVATION IS COMPLETE AND PRIOR TO PLACING AC BASE AND STABILIZATION FABRIC.

SUBGRADE STABILIZATION/DIGOUTS

NOT TO SCALE

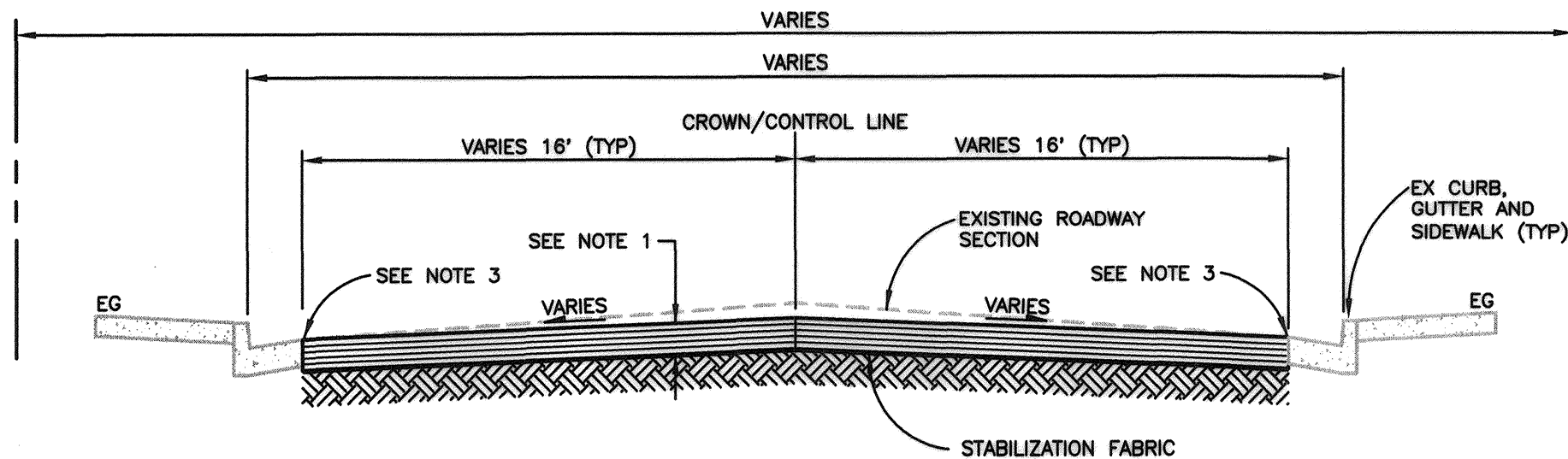


NOTES

- WHERE DIGOUTS ARE REQUIRED, SEE SUBGRADE STABILIZATION/DIGOUTS DETAIL THIS SHEET.
- CONFORM ASPHALT CONCRETE TO EXISTING CROWN AND EXISTING LIP OF GUTTER.

VALLEJO STREET MODIFIED TRENCH PAVING STA 21+48 TO STA 23+42 TYPICAL SECTION

NOT TO SCALE

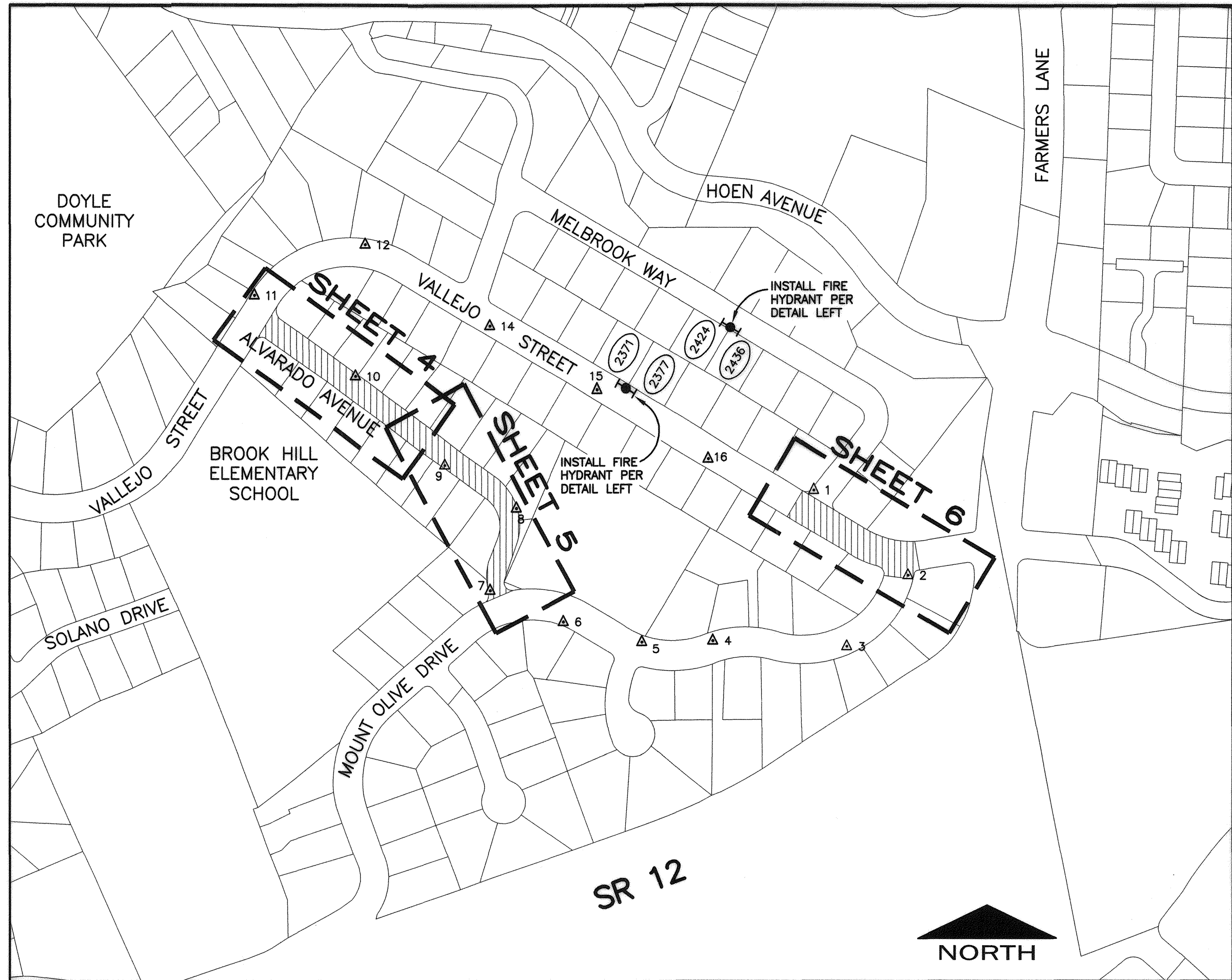


NOTES

- AC THICKNESS SHALL BE PLACED IN TWO LIFTS AS FOLLOWS:
STA 10+24 TO 18+33 ALVARADO AVE: 0.20' AC SURFACE OVER 0.35' AC BASE.
STA 20+20 TO 21+48 VALLEJO ST: 0.20' AC SURFACE OVER 0.55' AC BASE.
MELBROOK WAY: 0.20' AC OVER 0.35' AC BASE.
- WHERE DIGOUTS ARE REQUIRED, SEE SUBGRADE STABILIZATION/DIGOUTS DETAIL THIS SHEET.
- ALL EXISTING MISCELLANEOUS ASPHALT CONCRETE SHALL BE REMOVED FROM LIP OF GUTTER PRIOR TO CONFORMING NEW ASPHALT CONCRETE TO EXISTING LIP OF GUTTER.

ROAD RECONSTRUCTION TYPICAL SECTION

NOT TO SCALE



PLAN & PROFILE KEY MAP AND SURVEY CONTROL

NOT TO SCALE

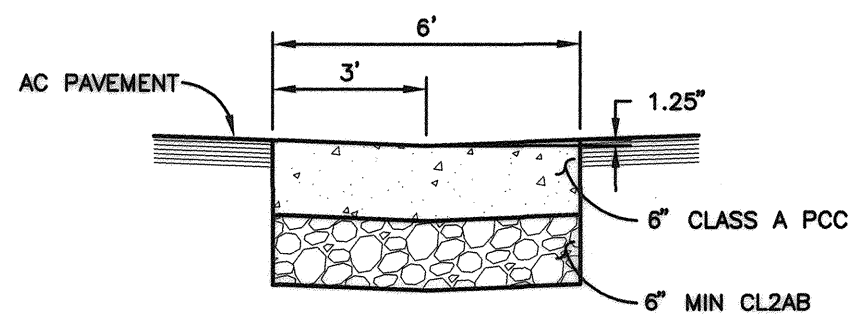
CONTROL POINT COORDINATE TABLE

NO.	NORTHING	EASTING	ELEV	DESCRIPTION
1	1922098.661	6364411.139	197.35	SET CUT X
2	1921924.347	6364602.562	197.81	SET CUT X
3	1921778.499	6364478.227	204.69	SET PK NAIL
4	1921790.216	6364206.567	213.00	SET PK NAIL
5	1921788.108	6364062.893	222.00	SET CUT X
6	1921829.859	6363903.606	220.18	SET CUT X
7	1921894.860	6363755.717	214.33	SET CUT X
8	1922063.331	6363808.564	213.75	SET CUT X
9	1922149.083	6363663.631	201.87	SET CUT X
10	1922324.312	6363482.064	193.45	SET CUT X
11	1922488.741	6363277.079	191.14	SET CUT X
12	1922591.914	6363501.649	192.48	SET CUT X
14	1922425.982	6363754.740	194.21	SET CUT X
15	1922297.022	6363971.660	195.19	SET CUT X
16	1922161.690	6364197.480	196.24	SET CUT X

BENCHMARK

B-186 FARMERS LANE AND HOEN AVENUE; CITY DISK IN WELL MONUMENT AT CL INTERSECTION.
(COORDINATE MONUMENT G-281) 12/85
EL 198.917 (NGVD 29)

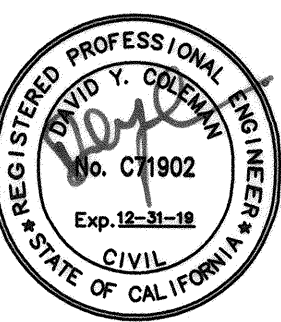
BASIS OF BEARINGS ARE NAD 83, EPOCH 2010



NOTE
DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.

VALLEY GUTTER

NOT TO SCALE

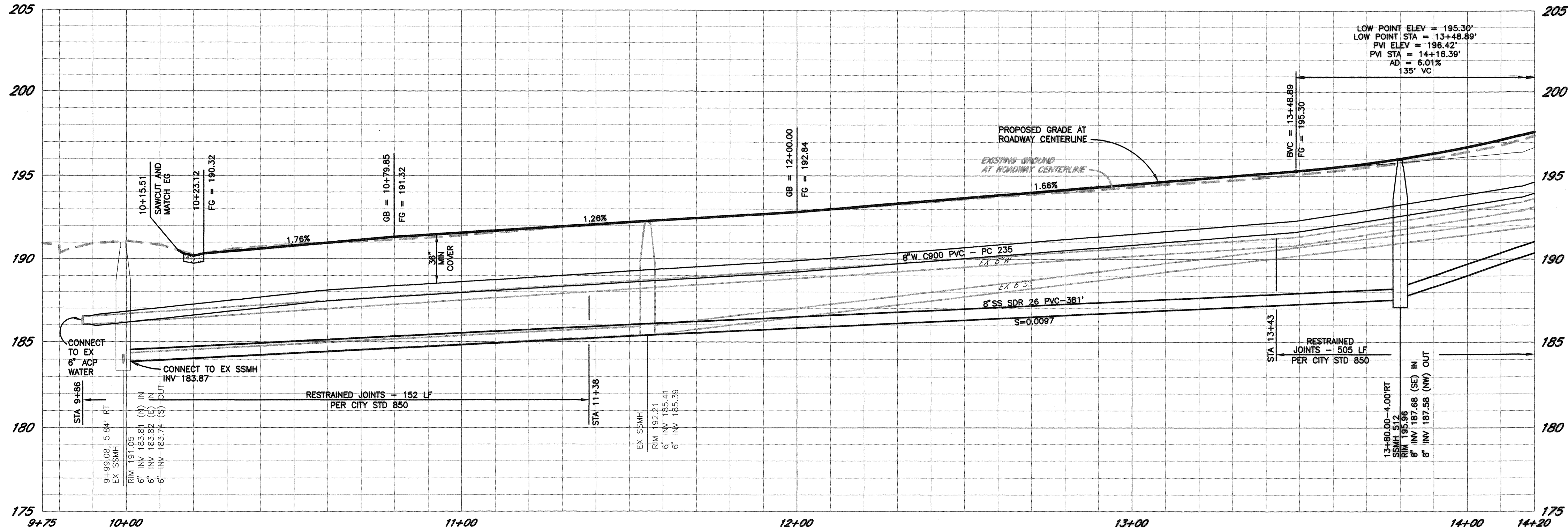


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4375 Avenida Breje, Suite 201, Santa Rosa, CA 95405
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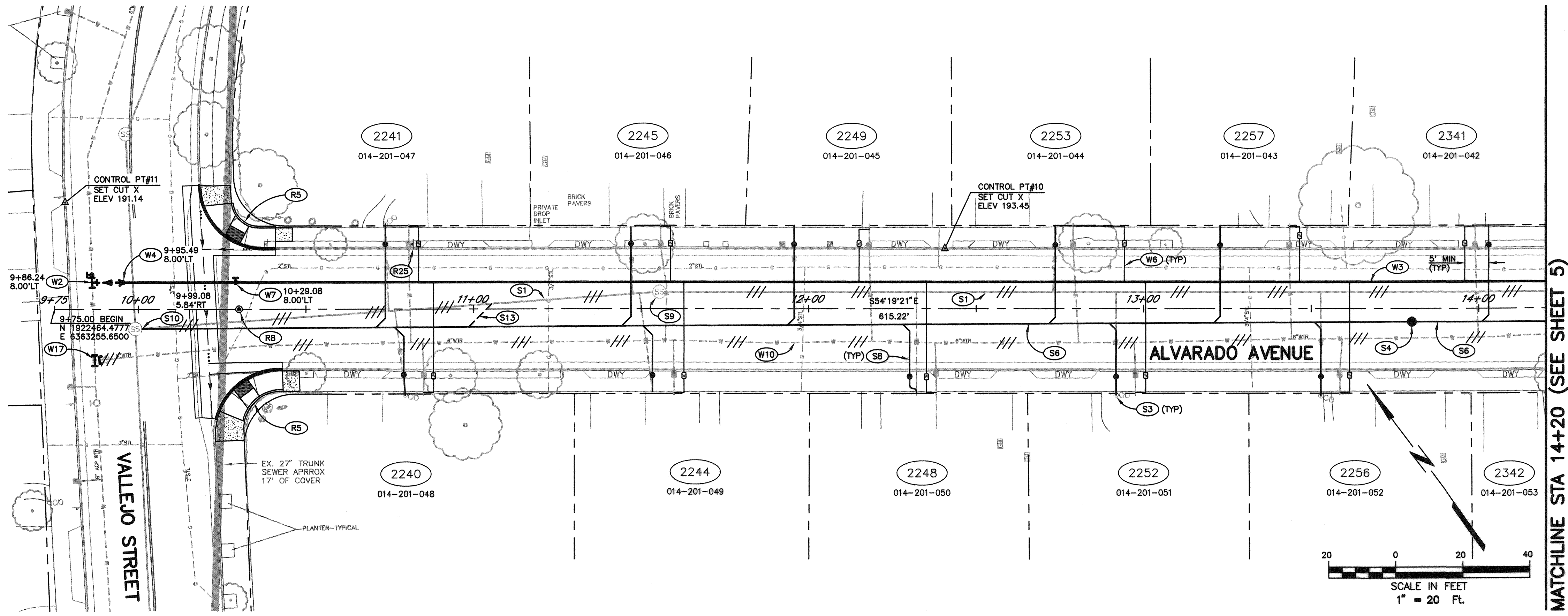
SCALE: AS SHOWN DATE: MAY 2018
DWN BY: DJK CHK BY: JIN
APPROVED: Deputy Director - Engineering
By: *Lori Urbanek* Date: 5/6/18
Lori Urbanek

City of Santa Rosa
**ALVARADO AVE AND VALLEJO ST
WATER AND SEWER IMPROVEMENTS**
**TYPICAL SECTIONS, KEY MAP
& SURVEY CONTROL**

CONTRACT NO.
C02004
SHEET 3 OF 16
FILE NO. 2017-0043



PROFILE - ALVARADO AVENUE
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



PLAN
SCALE: 1" = 20'

CONSTRUCTION NOTES

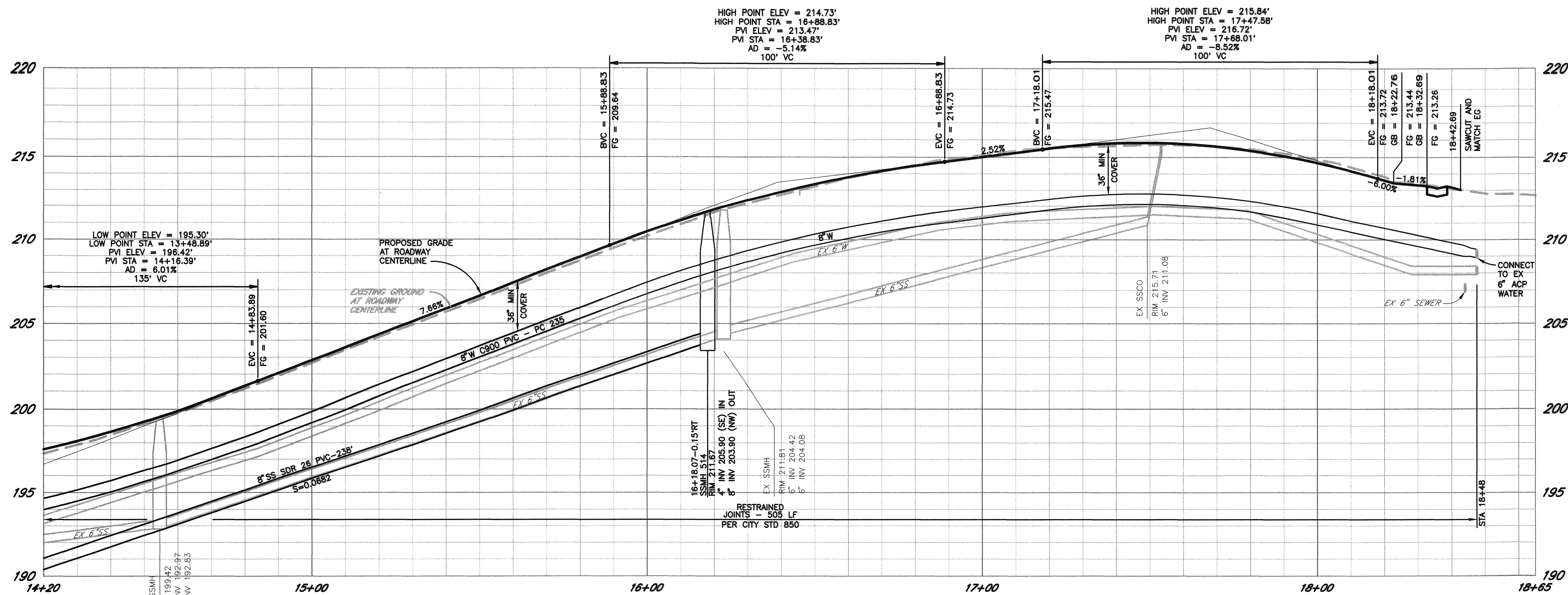
(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

- (R5) INSTALL CASE "C" CURB RAMP PER CALTRANS STANDARD PLAN A88A AND DETAIL SHEET 9.
- (R8) REPLACE CITY MONUMENT PER CITY STANDARD 280. NOTIFY CITY SURVEY DEPARTMENT BEFORE CONSTRUCTION FOR CORNER RECORD SURVEY.
- (R25) EXISTING SW24-3 (CA) SIGN TO BE RELOCATED.
- (S1) REMOVE EXISTING SANITARY SEWER MAIN WHERE ENCOUNTERED DURING EXCAVATION FOR NEW SEWER OR WATER. ABANDON PER CITY STANDARD 507 WHERE EXISTING SEWER EXTENDS BEYOND EXCAVATION LIMITS.
- (S3) REMOVE EXISTING CLEANOUTS AT ALL LOCATIONS WHERE FOUND AND AS DIRECTED BY THE ENGINEER PRIOR TO CONNECTING EXISTING LATERAL.
- (S4) INSTALL NEW 48" SANITARY SEWER MANHOLE PER CITY STANDARD 500.
- (S6) INSTALL 8" SANITARY SEWER MAIN PER CITY STANDARDS.
- (S8) INSTALL 4" PVC SANITARY SEWER LATERAL PER CITY STANDARD 513A. REMOVE OR ABANDON EXISTING LATERAL PER CITY STANDARD 507.
- (S9) REMOVE EXISTING SANITARY SEWER MANHOLE PER CITY STD 508.
- (S10) CONNECT TO EXISTING SEWER MANHOLE PER CITY STANDARDS.
- (S13) INSTALL TEMPORARY 6-INCH SEWER BYPASS TIE-IN BEFORE CONTINUING WORK UPSTREAM. TIE-IN TO CONSIST OF 8X8X6 INCH WYE, 6-INCH PVC INTERCONNECT, 45-DEGREE ELBOW AND RUBBER COUPLING WITH STEEL SHEAR BAND. AFTER SEWER CONSTRUCTION IS COMPLETE REMOVE BYPASS AND REPAIR NEW MAIN. FIELD VERIFY LOCATION WITH COURSEING OF NEW PIPING AND PROTECTION OF EXISTING SEWER UPSTREAM OF BYPASS CONNECTION.
- (W2) CUT-IN 6"x6"x6" TEE WITH 6" GATE VALVE, 6"x6" REDUCER AND PIPE AS NEEDED. CONNECT TO EXISTING 6" MAIN AS SHOWN IN A SINGLE OPERATION UNDER CITY INSPECTION.
- (W3) INSTALL 8" PVC WATER MAIN PER CITY STANDARDS.
- (W4) INSTALL TEMPORARY BLOWOFF PER CITY STANDARDS.
- (W6) INSTALL 1" HDPE WATER SERVICE PLUMBED FOR 5/8"x3/4" METER PER CITY STANDARD 863A.
- (W7) INSTALL 8" GATE VALVE PER CITY STANDARD 877.
- (W10) REMOVE OR ABANDON EXISTING WATER COMPONENTS PER CITY STANDARDS.
- (W17) REMOVE EXISTING TEE AND INSTALL PIPE AND COUPLERS PER CITY STANDARDS.

NOTE: STATIONS AND LOCATIONS OF WATER VALVES BLOW-OFFS, TEES, ELBOWS ETC. ARE SHOWN FOR GENERAL LOCATION AS EXISTING FIELD CONDITIONS MAY REQUIRE ADJUSTMENT IN THE FIELD AS DIRECTED BY THE ENGINEER

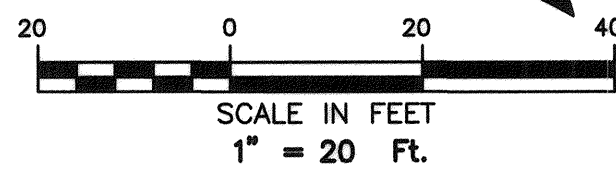
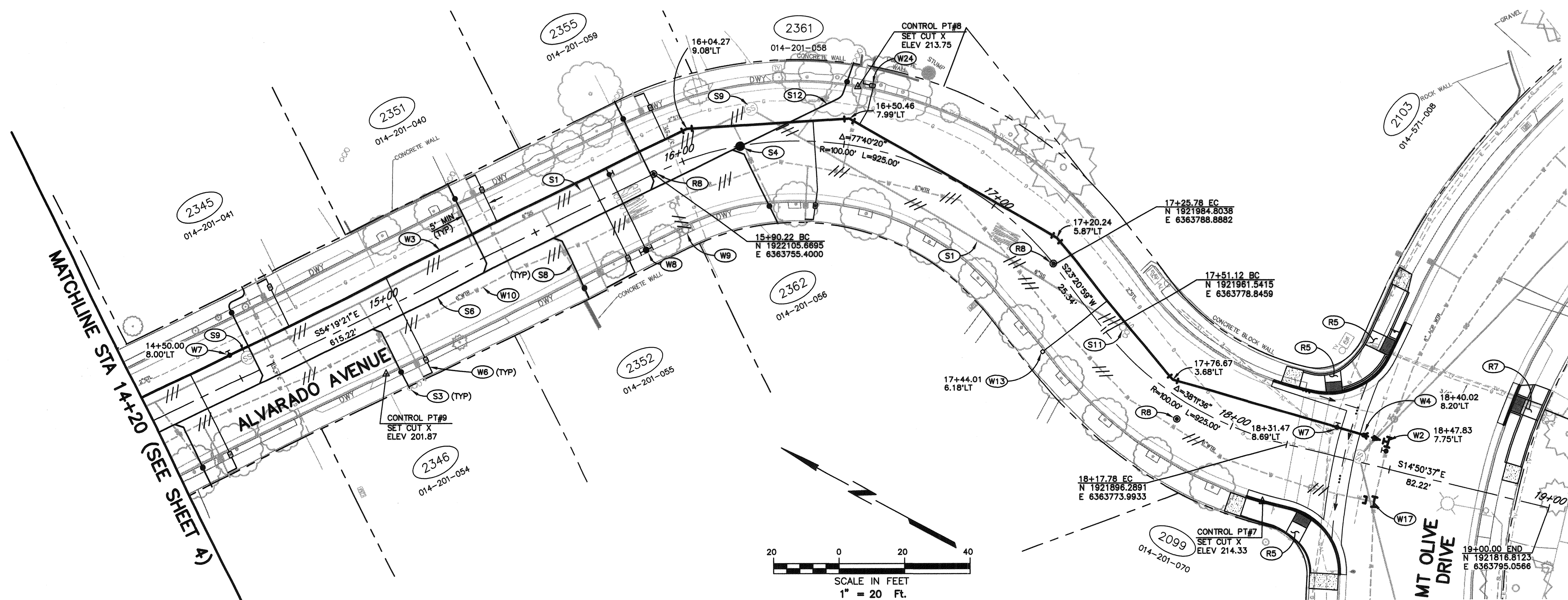
City of Santa Rosa
Brelje & Race
CONSULTING ENGINEERS
1000 MARKET STREET, SUITE 200, SANTA ROSA, CA 95404
WWW.BRELJEANDRACE.COM

DATE: MAY 2018		CHK BY: JIN		BY	
SCALE: AS SHOWN	DWN BY: JLP	APPROVED: Deputy Director - Engineering	Date: 6/6/18	NO.	REVISION
<p>City of Santa Rosa ALVARADO AVE AND VALLEJO ST WATER AND SEWER IMPROVEMENTS PLAN & PROFILE ALVARADO AVENUE STA 10+00 - STA 14+20</p>			<p>By: <i>Lori Urbanek</i></p>		
			<p>CONTRACT NO. C02004</p>		
<p>SHEET 4 OF 16</p>			<p>FILE NO. 2017-0043</p>		



PROFILE — ALVARADO AVENUE

SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



PLAN

SCALE: 1" = 20'

CONSTRUCTION NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

- (R5) INSTALL CASE "C" CURB RAMP PER CALTRANS STANDARD PLAN AB8A AND DETAIL SHEET 9.
- (R7) INSTALL CASE "F" CURB RAMP PER DETAIL CALTRANS STANDARD AB8A AND DETAIL SHEET 9.
- (R8) REPLACE CITY MONUMENT PER CITY STANDARD 280. NOTIFY CITY SURVEY DEPARTMENT BEFORE CONSTRUCTION FOR CORNER RECORD SURVEY.
- (S1) REMOVE EXISTING SANITARY SEWER MAIN WHERE ENCOUNTERED DURING EXCAVATION FOR NEW SEWER OR WATER. ABANDON PER CITY STANDARD 507 WHERE EXISTING SEWER EXTENDS BEYOND EXCAVATION LIMITS.
- (S3) REMOVE EXISTING CLEANOUTS AT ALL LOCATIONS WHERE FOUND AND AS DIRECTED BY THE ENGINEER PRIOR TO CONNECTING EXISTING LATERAL.
- (S4) INSTALL NEW 48" SANITARY SEWER MANHOLE PER CITY STANDARD 500.
- (S6) INSTALL 8" SANITARY SEWER MAIN PER CITY STANDARDS.
- (S8) INSTALL 4" PVC SANITARY SEWER LATERAL PER CITY STANDARD 513A. REMOVE OR ABANDON EXISTING LATERAL PER CITY STANDARD 507.
- (S9) REMOVE EXISTING SANITARY SEWER MANHOLE PER CITY STD 508.
- (S11) REMOVE EXISTING MAINLINE CLEANOUT.
- (S12) INSTALL 4" SANITARY SEWER LATERAL WITH TRACER WIRE SERVING 2361 ALVARADO AVENUE WITH LONG RADIUS SWEEP AND CONNECT DIRECTLY TO MANHOLE. NEW SEWER LATERAL TO BE INSTALLED MIN 12" BELOW THE NEW WATER MAIN.
- (W2) CUT-IN 6"x6"x6" TEE WITH 6" GATE VALVE, 8"x6" REDUCER AND PIPE AS NEEDED. CONNECT TO EXISTING 6" MAIN AS SHOWN IN A SINGLE OPERATION UNDER CITY INSPECTION.
- (W3) INSTALL 8" PVC WATER MAIN PER CITY STANDARDS.
- (W4) INSTALL TEMPORARY BLOWOFF PER CITY STANDARDS.
- (W6) INSTALL 1" HDPE WATER SERVICE PLUMBED FOR 5/8"x3/4" METER PER CITY STANDARD 863A.
- (W7) INSTALL 8" GATE VALVE PER CITY STANDARD 877.
- (W8) INSTALL RESIDENTIAL FIRE HYDRANT PER CITY STANDARD 857. REPLACE CONCRETE AS REQUIRED.
- (W9) ABANDON EXISTING FIRE HYDRANT SERVICE PER CITY STANDARDS. REMOVE AND SALVAGE EXISTING HYDRANT. REPLACE CONCRETE AS REQUIRED.
- (W10) REMOVE OR ABANDON EXISTING WATER COMPONENTS PER CITY STANDARDS.
- (W13) INSTALL COMBINATION AIR AND VACUUM RELEASE VALVE AT HIGHEST POINT OF WATER MAIN PER CITY STANDARD 883. FINAL LOCATION TO BE DETERMINED IN THE FIELD.
- (W17) REMOVE EXISTING TEE AND INSTALL PIPE AND COUPLERS PER CITY STANDARDS.
- (W24) INSTALL WATER METER BOX IN PLANTER STRIP PARALLEL TO CURB AND TIE IN TO THE EXISTING HOUSE SERVICE AT THE FRONT OF SIDEWALK.

NOTE:
STATIONS AND LOCATIONS OF WATER VALVES
BLOW-OFFS, TEES, ELBOWS ETC. ARE SHOWN
FOR GENERAL LOCATION AS EXISTING FIELD
CONDITIONS MAY REQUIRE ADJUSTMENT IN
THE FIELD AS DIRECTED BY THE ENGINEER

City of Santa Rosa

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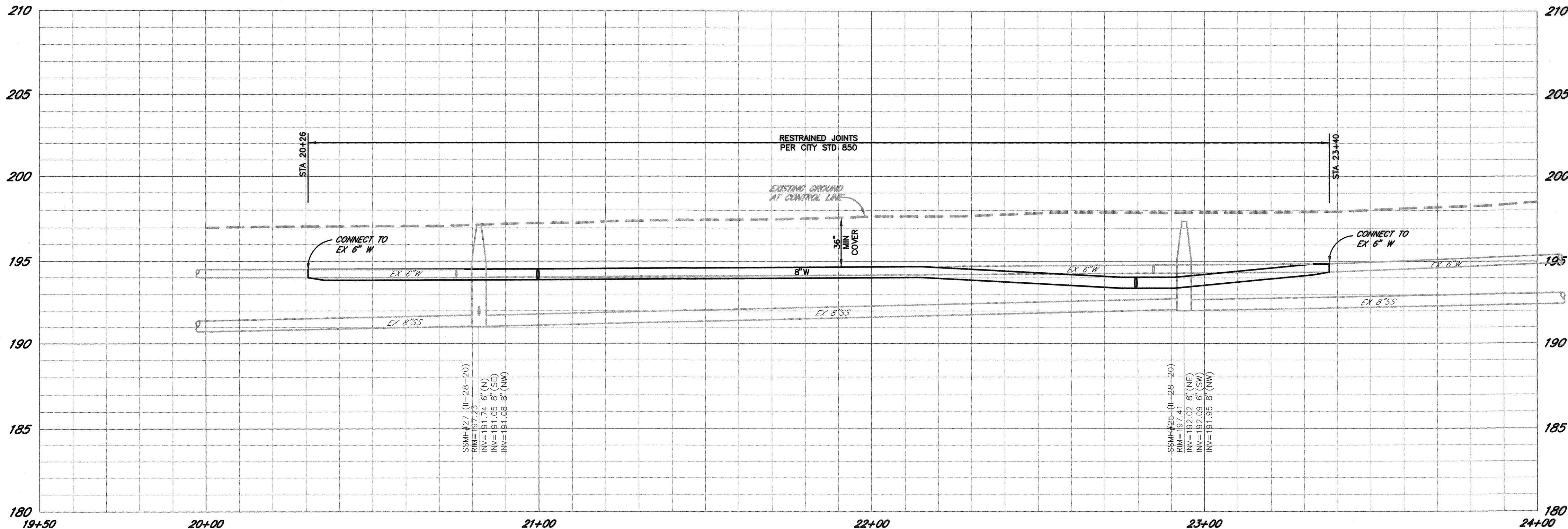
SCALE: AS SHOWN		DATE: MAY 2018	APPROVED: Deputy Director — Engineering	
DWN BY: JLP	CHK BY: JIN		By: <i>[Signature]</i>	Date: 5/18/18
			NO.	DATE
			REVISION	BY

City of Santa Rosa

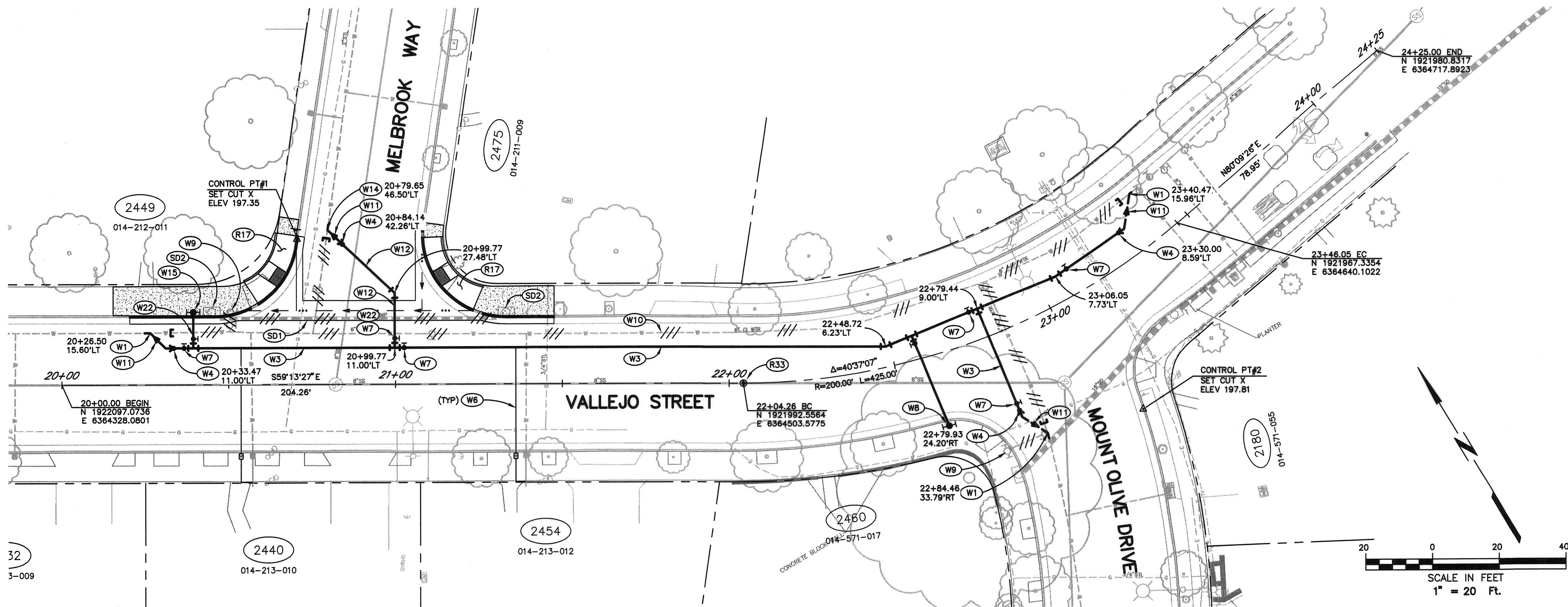
ALVARADO AVE AND VALLEJO ST
WATER AND SEWER IMPROVEMENTS

PLAN & PROFILE
ALVARADO AVENUE
STA 14+20 - STA 18+50

CONTRACT NO. C02004	
SHEET 5 OF 16	
FILE NO. 2017-0043	



PROFILE - VALLEJO STREET
SCALE: HORZ. 1" = 20'
VERT. 1" = 4'



PLAN

CONSTRUCTION NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

- (R17) INSTALL CASE "C" CURB RAMP PER CALTRANS STANDARD PLAN A88A AND DETAIL SHEET 10.
- (W1) UPON SATISFACTORY COMPLETION OF WATER MAIN TESTING, MAKE WATER MAIN TIE IN (3 LOCATIONS) AS A SINGLE OPERATION UNDER AUTHORIZED CITY INSPECTION. INSTALL FITTINGS AND DUCTILE IRON PIPE AS NECESSARY TO MAKE GRADE OR ALIGNMENT TRANSITION. RESTRAIN ALL JOINTS.
- (W3) INSTALL 8" PVC WATER MAIN PER CITY STANDARDS.
- (W4) INSTALL TEMPORARY BLOWOFF PER CITY STANDARDS.
- (W6) INSTALL 1" HDPE WATER SERVICE PLUMBED FOR 5/8"x3/4" METER PER CITY STANDARD 863A.
- (W7) INSTALL 8" GATE VALVE PER CITY STANDARD 877.
- (W8) INSTALL RESIDENTIAL FIRE HYDRANT PER CITY STANDARD 857. REPLACE CONCRETE AS REQUIRED.
- (W9) ABANDON EXISTING FIRE HYDRANT SERVICE PER CITY STANDARDS. REMOVE AND SALVAGE EXISTING HYDRANT. REPLACE CONCRETE AS REQUIRED.
- (W10) REMOVE OR ABANDON EXISTING WATER COMPONENTS PER CITY STANDARDS.
- (W11) INSTALL 8"x6" REDUCER.
- (W12) INSTALL 8" DUCTILE IRON WATER MAIN PER CITY STANDARDS.
- (W14) UPON INSTALLATION AND ACTIVATION OF NEW WATER MAIN ALONG VALLEJO STREET, INSTALL MELBROOK WATER MAIN. UPON SATISFACTORY COMPLETION OF WATER MAIN TIE TO NEW 8" GATE VALVE ON VALLEJO STREET AND EXISTING MAIN ON MELBROOK WAY AS A SINGLE OPERATION.
- (W15) UPON INSTALLATION AND ACTIVATION OF NEW WATER MAIN ALONG VALLEJO STREET, INSTALL FIRE HYDRANT AND LATERAL TO NEW 8" GATE VALVE ON VALLEJO STREET PER CITY STD 857.
- (W22) INSTALL TEMPORARY BLIND FLANGE ON NEW 8" GATE VALVE.
- (SD1) REMOVE OR ABANDON AS REQUIRED EXISTING 12" CMP STORM DRAIN PER CITY STD 507
- (SD2) REMOVE EXISTING CATCH BASIN PER CITY STD 508.

NOTE:
STATIONS AND LOCATIONS OF WATER VALVES
BLOW-OFFS, TEES, ELBOWS ETC. ARE SHOWN
FOR GENERAL LOCATION AS EXISTING FIELD
CONDITIONS MAY REQUIRE ADJUSTMENT IN
THE FIELD AS DIRECTED BY THE ENGINEER

REGISTERED PROFESSIONAL ENGINEER
DAVID Y. COLEMAN
No. C71902
Exp. 12-31-18
CIVIL
STATE OF CALIFORNIA

City of
Santa Rosa

Breije & Race

CONSULTING ENGINEERS
475 PARK BLVD., SUITE 200 SANTA ROSA, CA 95404
www.breijeandrace.com

DATE: MAY 2018

CHK BY: JIN

APPROVED: Deputy Director - Engineering

By: *Lori Urbaneck* Date: 4/6/18

Lori Urbaneck

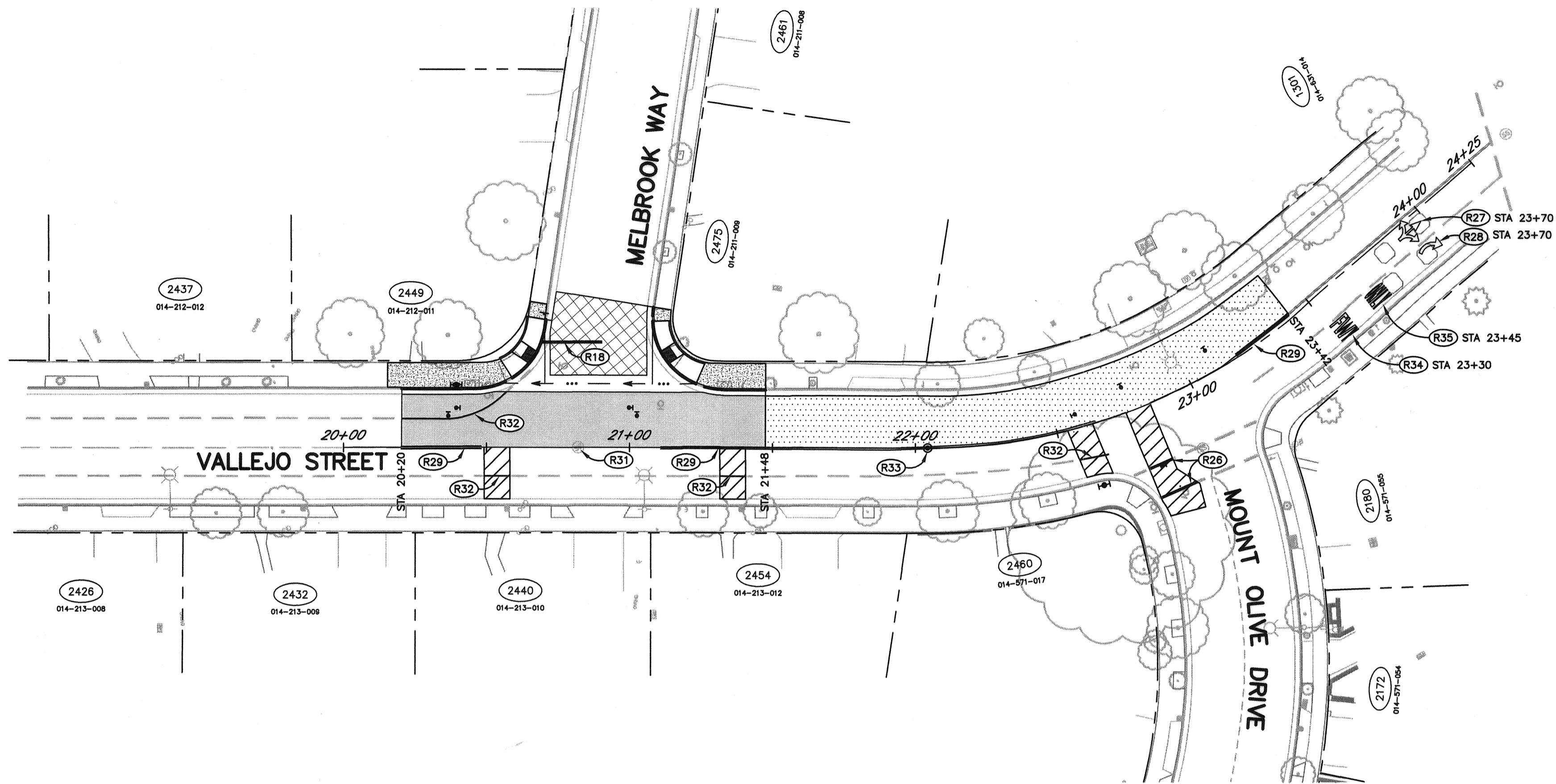
City of Santa Rosa

ALVARADO AVE AND VALLEJO ST
WATER AND SEWER IMPROVEMENTS
PLAN & PROFILE VALLEJO
STREET
STA 20+00 - STA 24+00

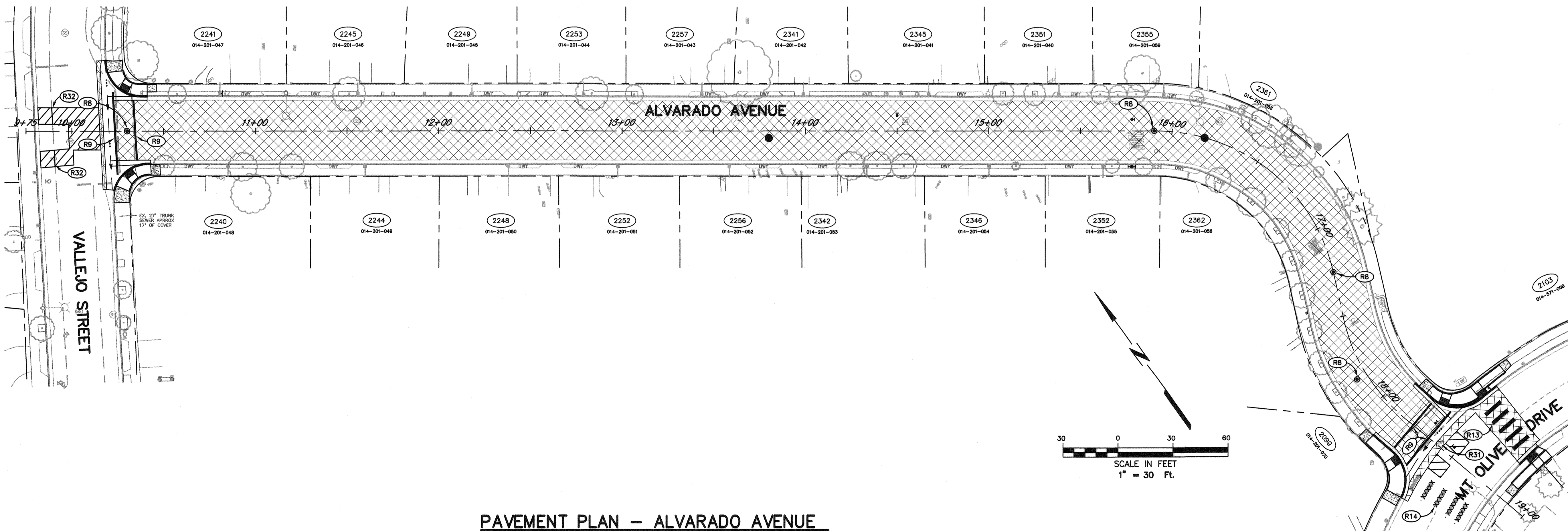
CONTRACT NO.
C02004

SHEET 6 OF 16

FILE NO. 2017-0043



PAVEMENT PLAN - VALLEJO STREET



PAVEMENT PLAN - ALVARADO AVENUE

CONSTRUCTION NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

- R8 REPLACE CITY MONUMENT PER CITY STANDARD 280. NOTIFY CITY SURVEY DEPARTMENT BEFORE CONSTRUCTION FOR CORNER RECORD SURVEY.
- R9 INSTALL 12" YELLOW THERMOPLASTIC CROSSWALK
- R13 INSTALL YELLOW THERMOPLASTIC CONTINENTAL CROSSWALK PER CALTRANS STD A24F
- R14 REMOVE EXISTING CROSSWALK
- R18 INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE.
- R26 INSTALL 12" WHITE THERMOPLASTIC CROSSWALK
- R27 INSTALL WHITE THERMOPLASTIC TYPE II (B) ARROW PER CALTRANS STD PLAN A24B
- R28 INSTALL WHITE THERMOPLASTIC TYPE III (R) ARROW PER CALTRANS STD PLAN A24B
- R29 INSTALL DOUBLE 6" YELLOW THERMOPLASTIC LINE PER DETAIL 22 CALTRANS STANDARD PLAN A20A
- R31 ADJUST EXISTING MANHOLE TO GRADE
- R32 INSTALL 6" WHITE THERMOPLASTIC EDGE LINE PER CALTRANS STD PLAN A20B
- R33 ADJUST EXISTING MONUMENT TO GRADE
- R34 INSTALL WHITE THERMOPLASTIC "FWY" LEGEND PER CALTRANS STD A24E.
- R35 INSTALL WHITE THERMOPLASTIC "ONLY" LEGEND PER CALTRANS STD A24E.

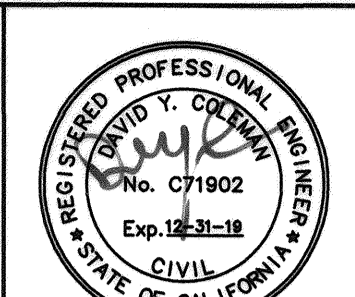
LEGEND

- APPROXIMATE LIMITS OF TRENCH PAVING PER CITY STANDARD 215
- LIMITS OF ROAD RECONSTRUCTION-ALVARADO AVE AND MELBROOK WAY 0.25' AC SURFACE OVER 0.35' AC BASE
- LIMITS OF ROAD RECONSTRUCTION-VALLEJO STREET 0.25' AC SURFACE OVER 0.55' AC BASE
- LIMITS OF VALLEJO STREET MODIFIED TRENCH PAVING PER DETAIL SHEET 3

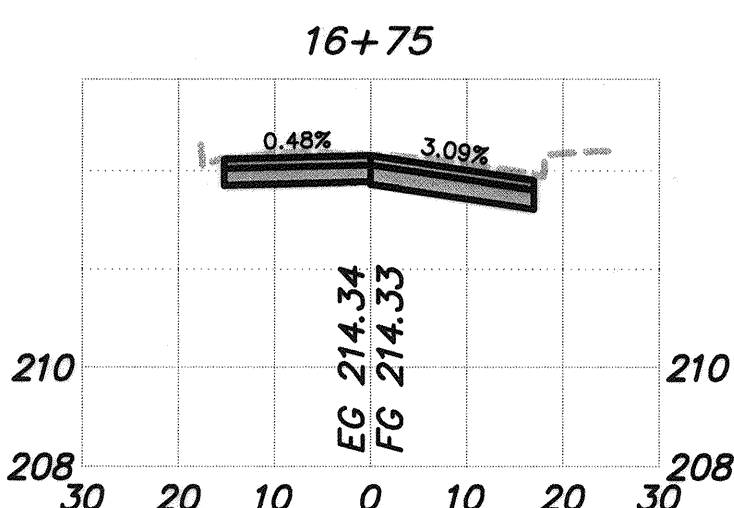
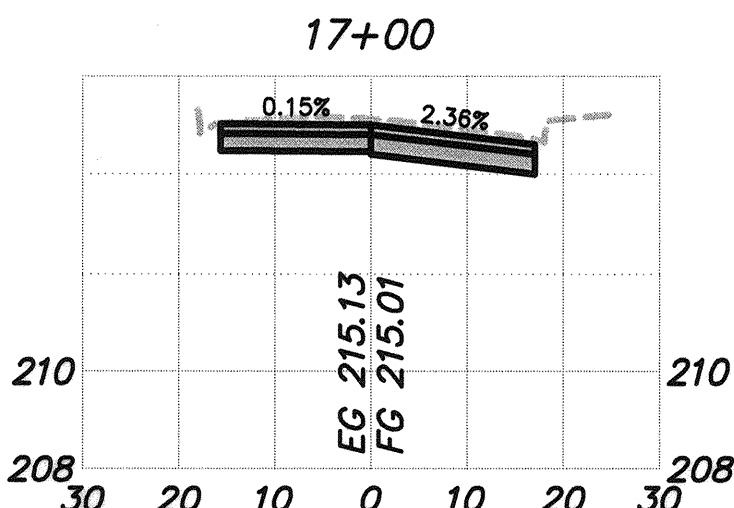
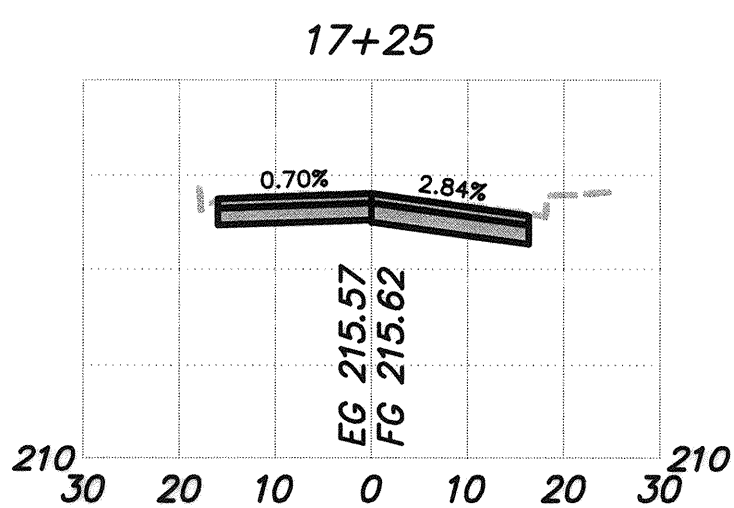
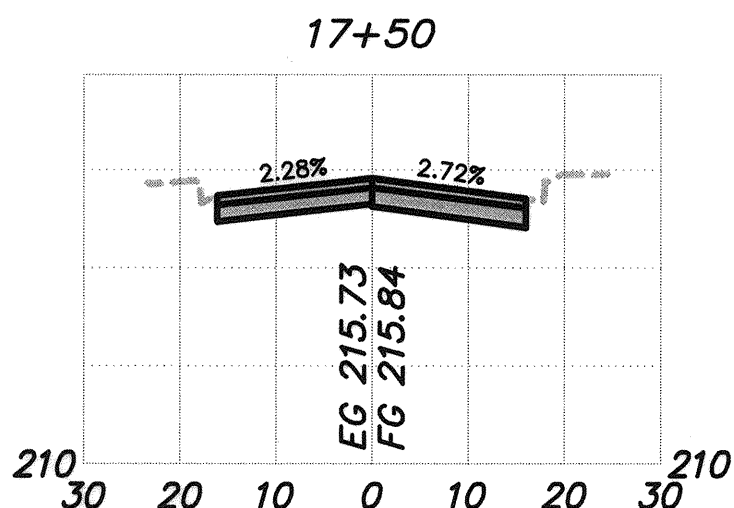
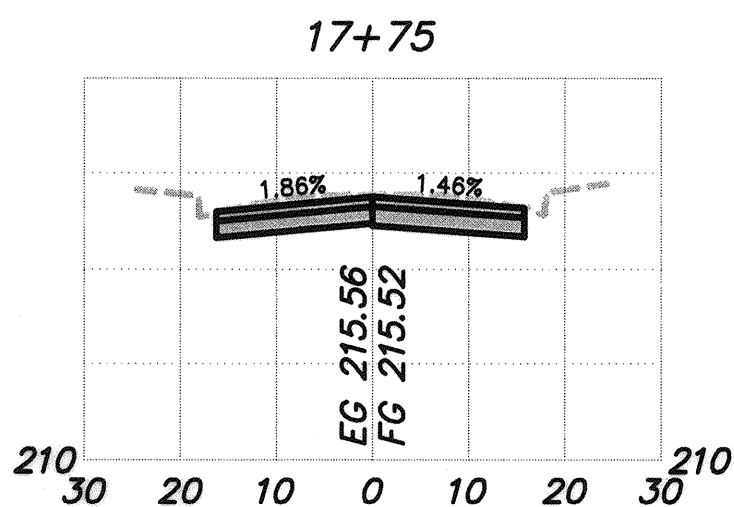
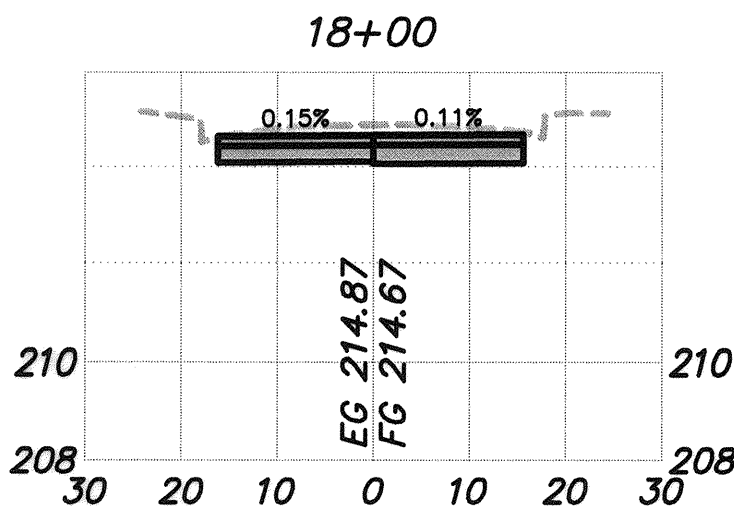
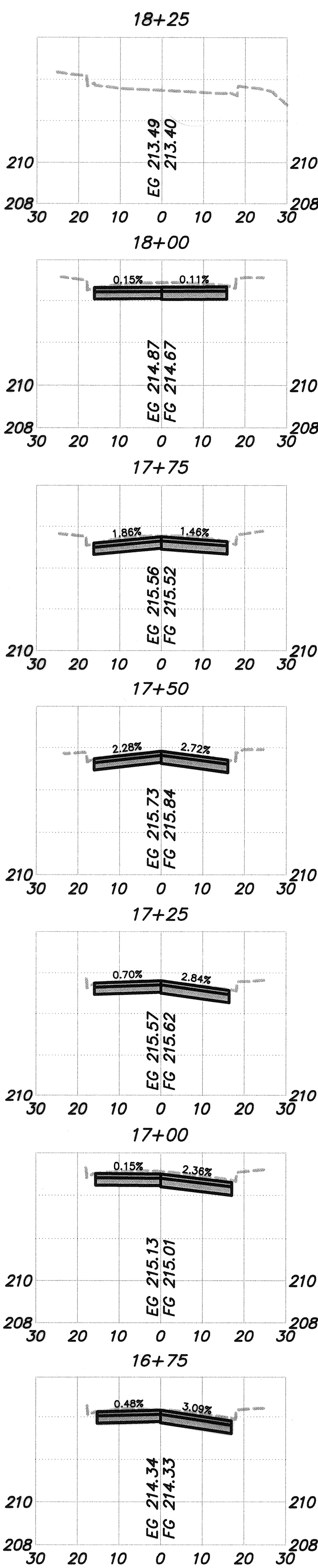
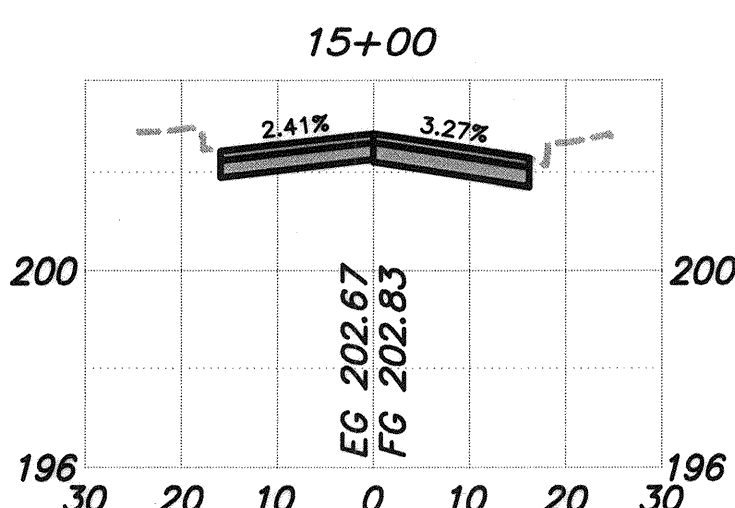
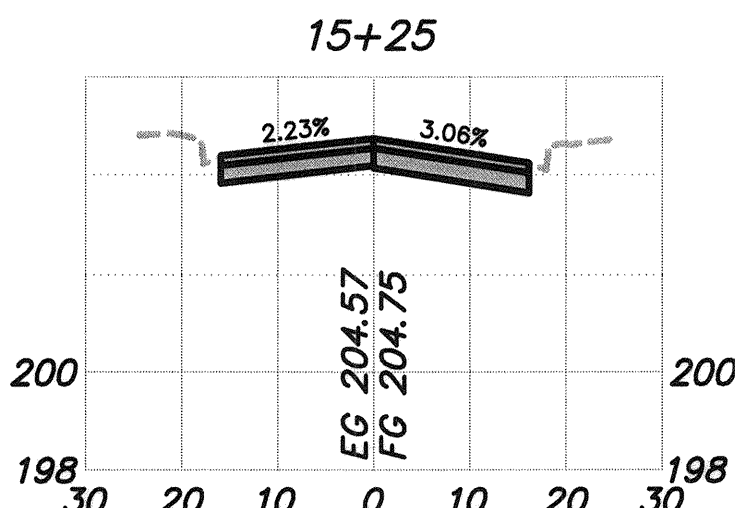
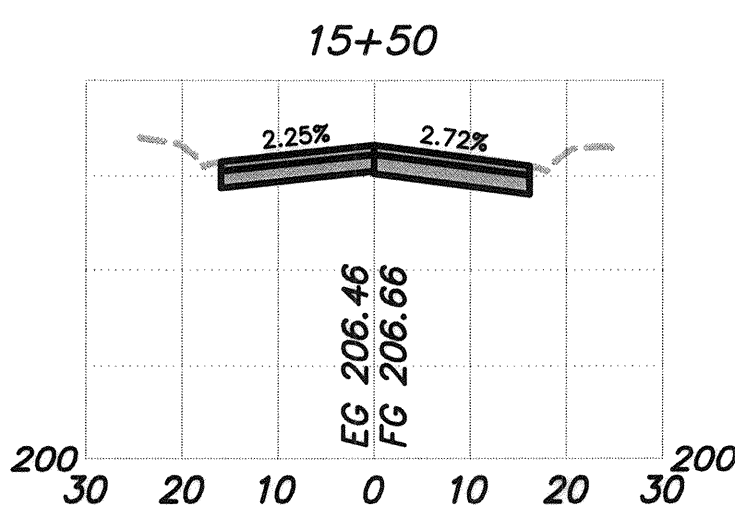
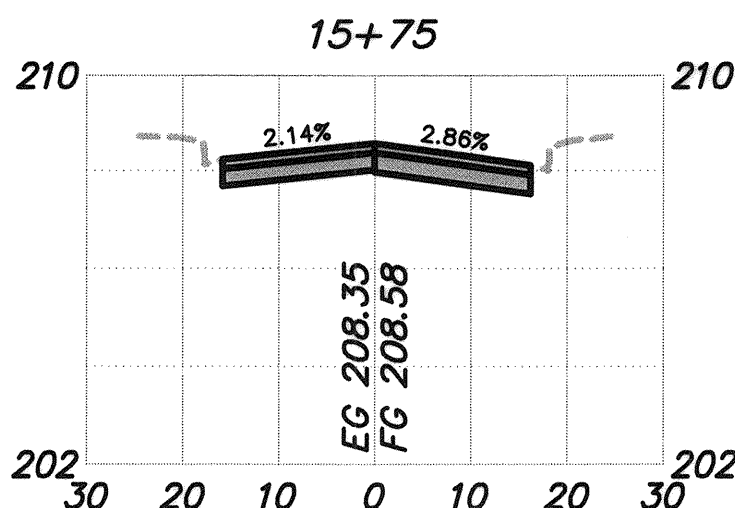
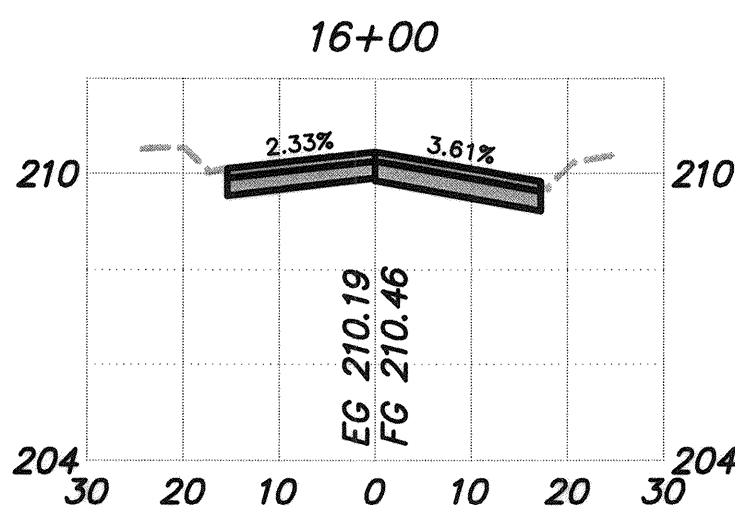
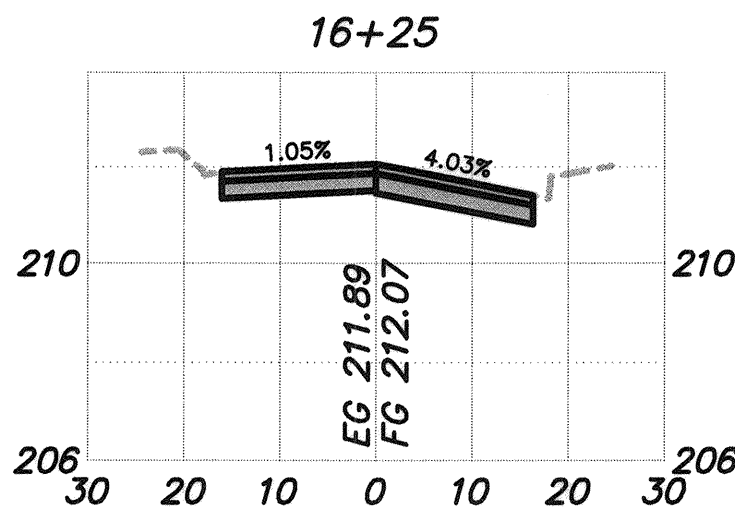
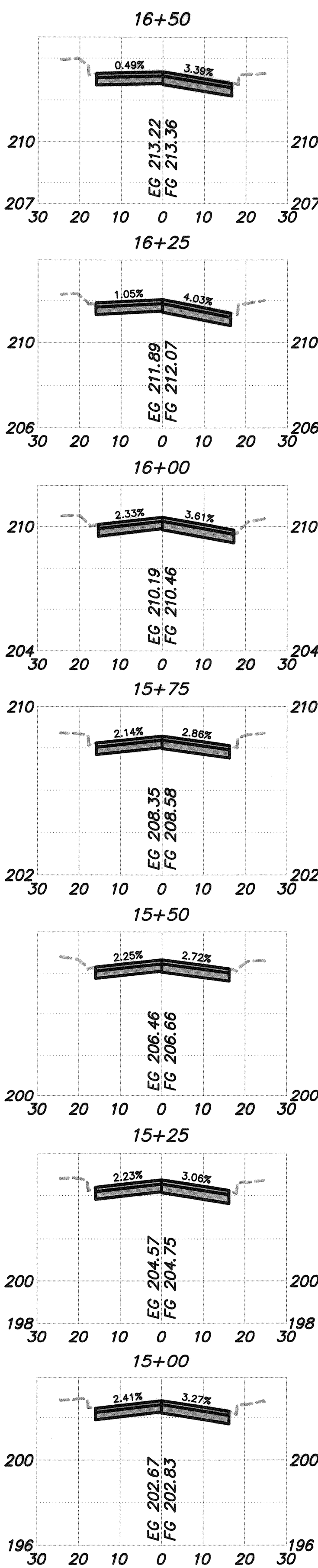
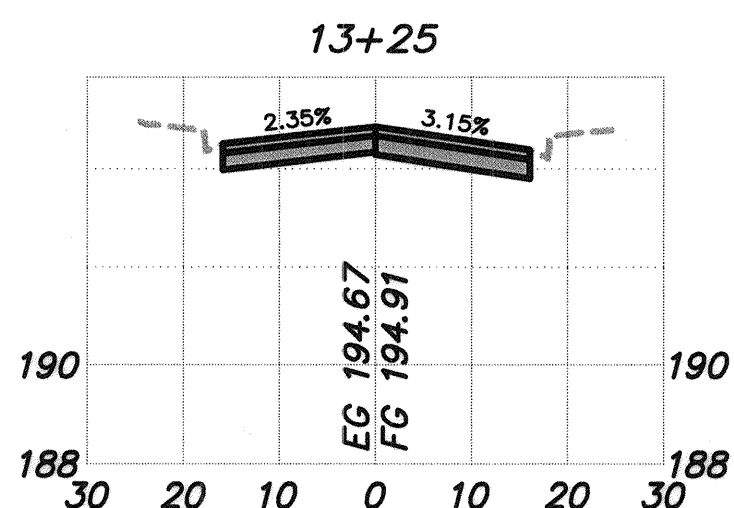
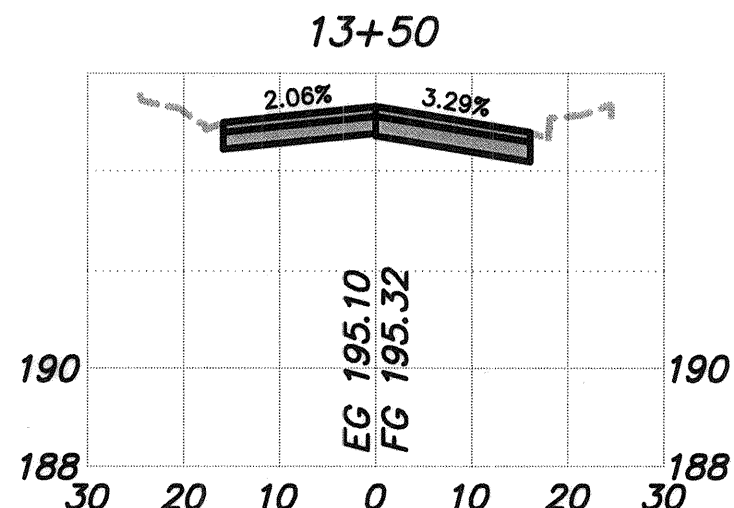
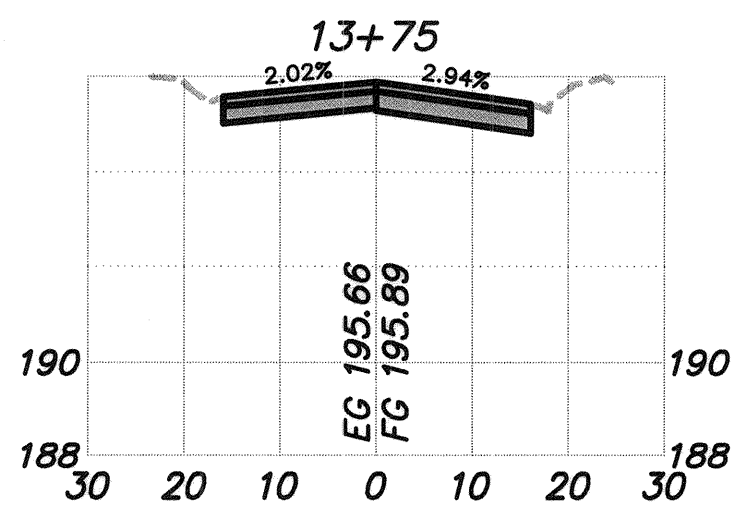
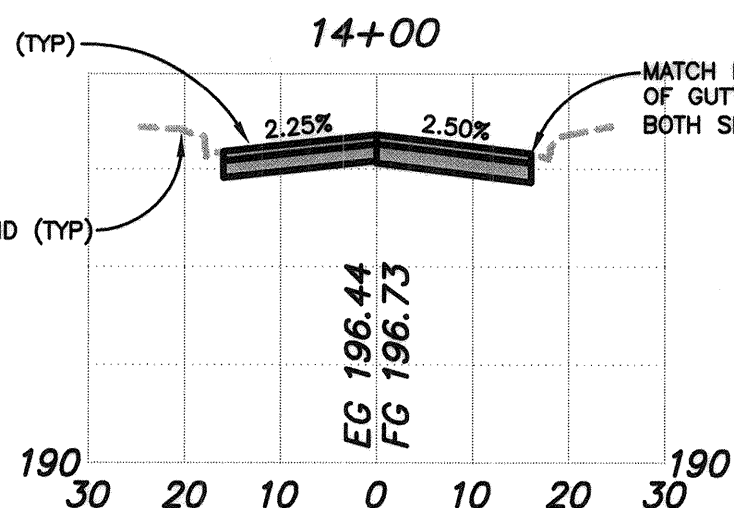
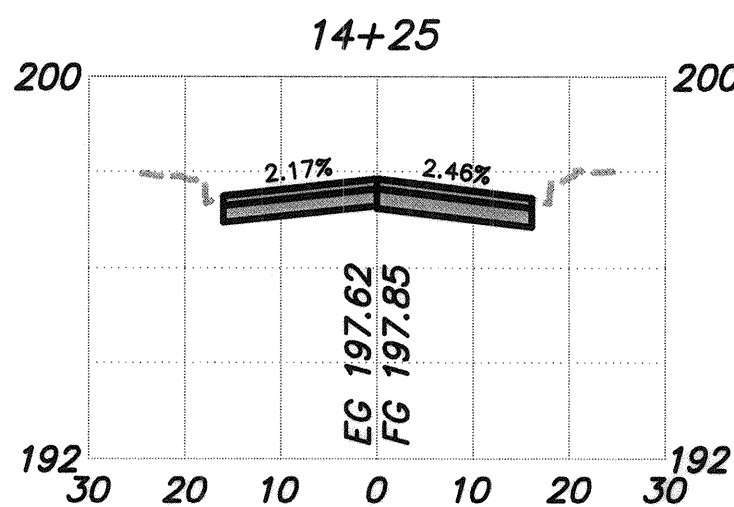
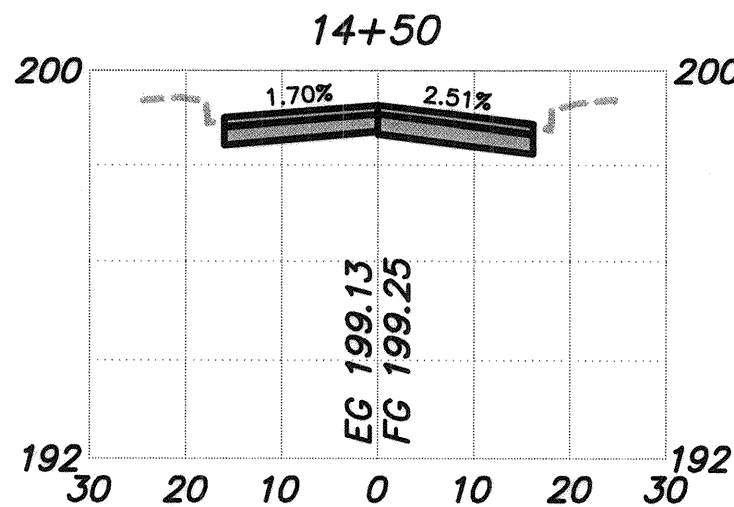
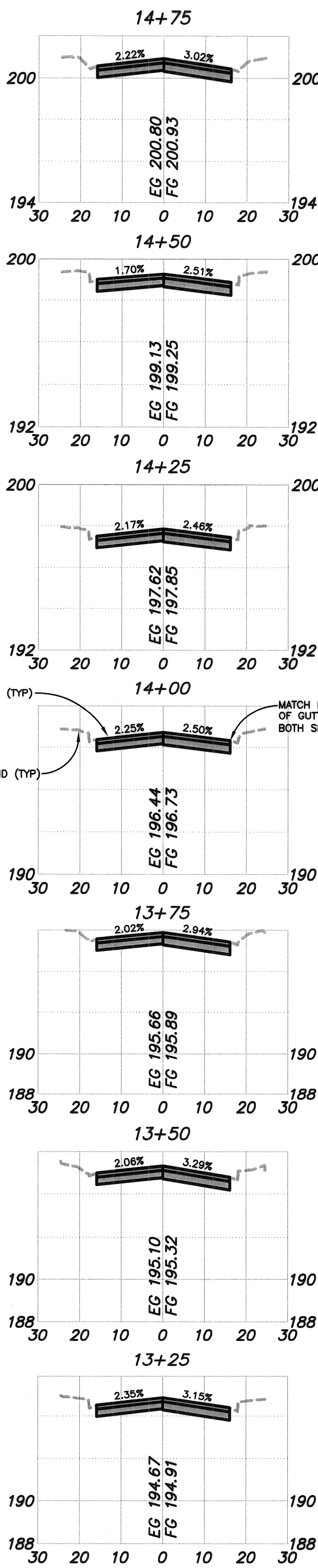
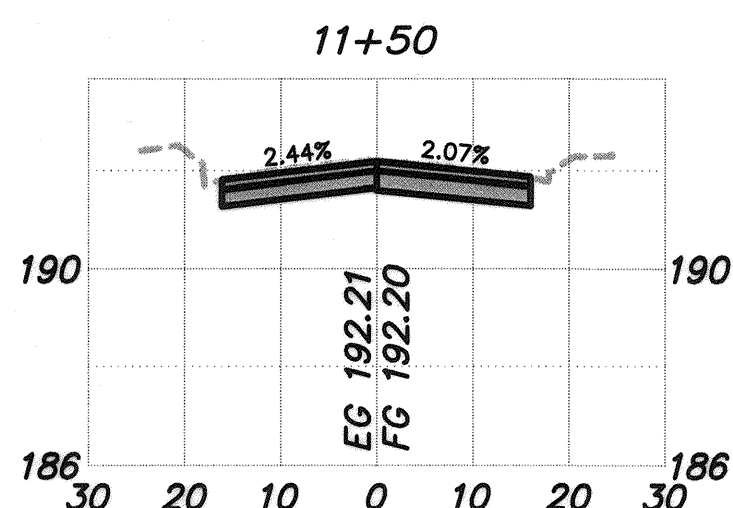
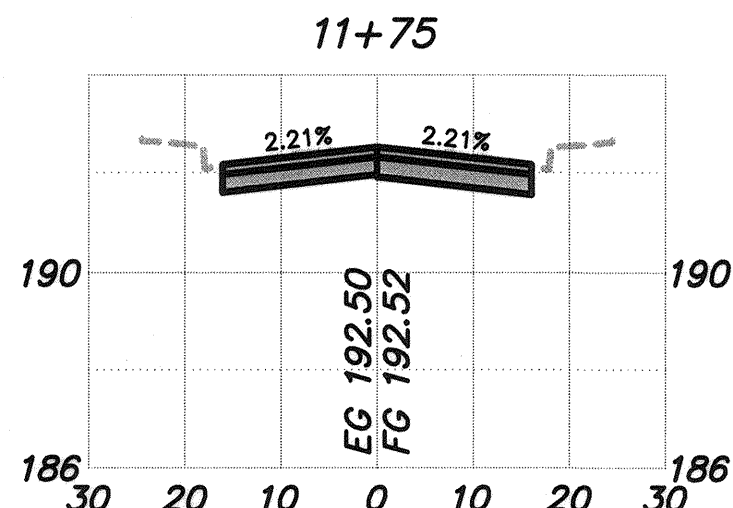
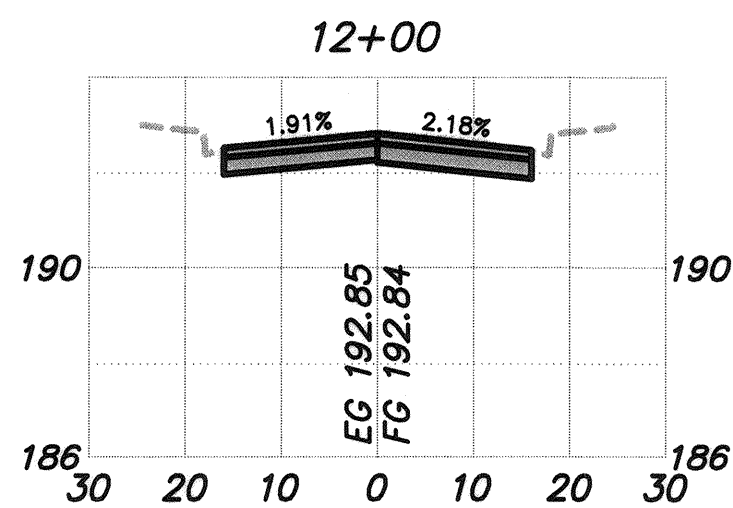
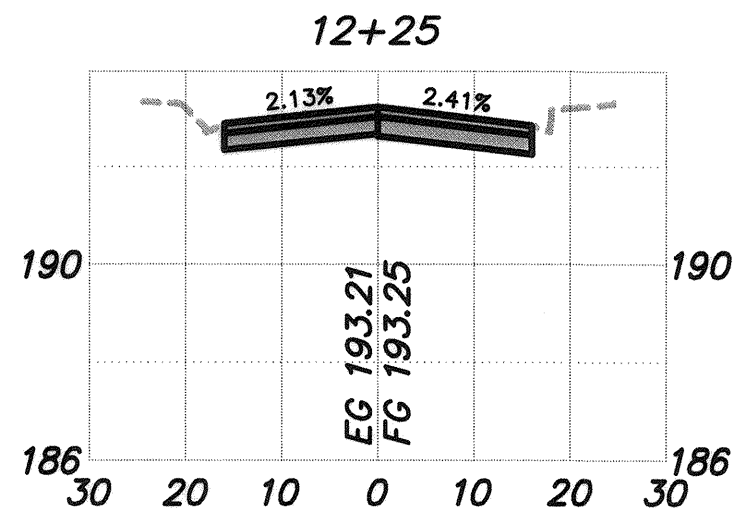
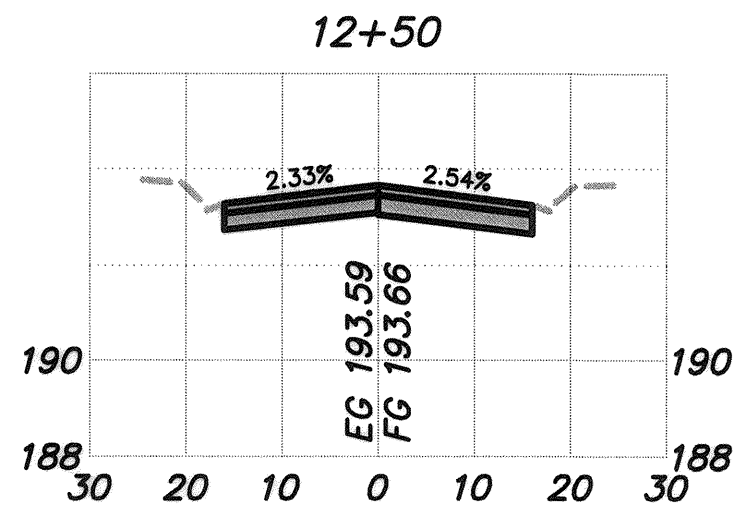
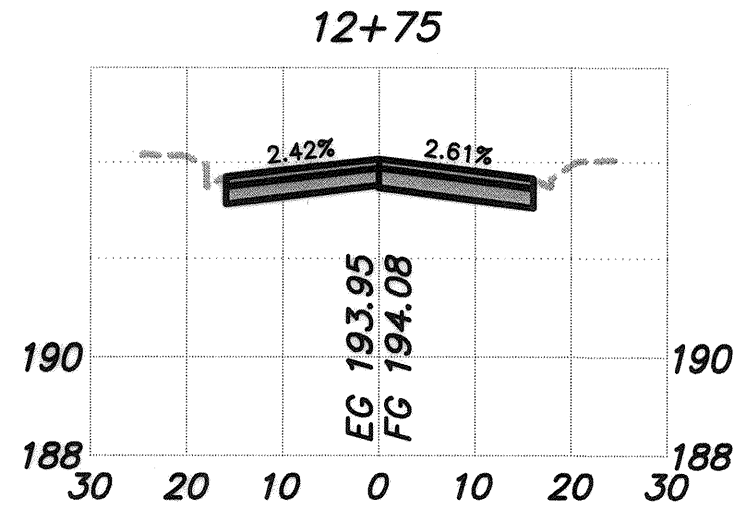
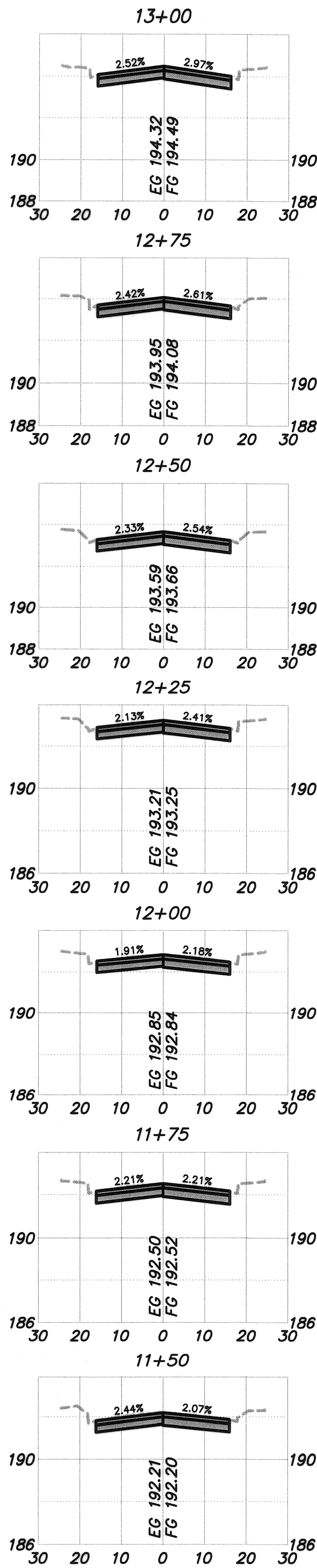
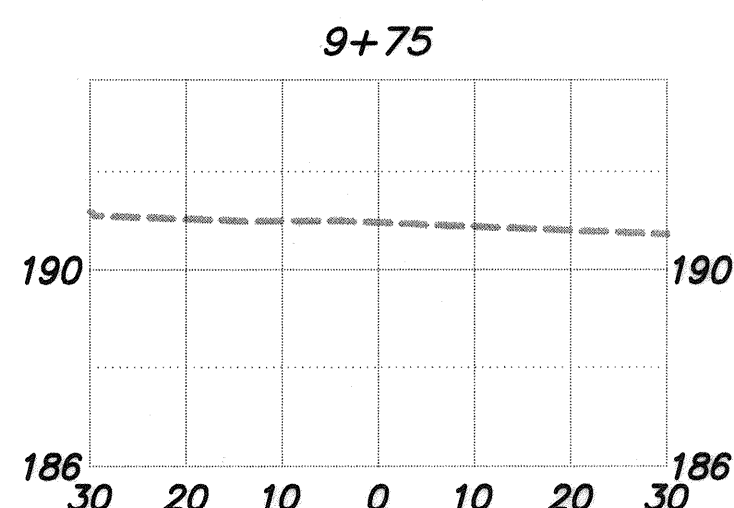
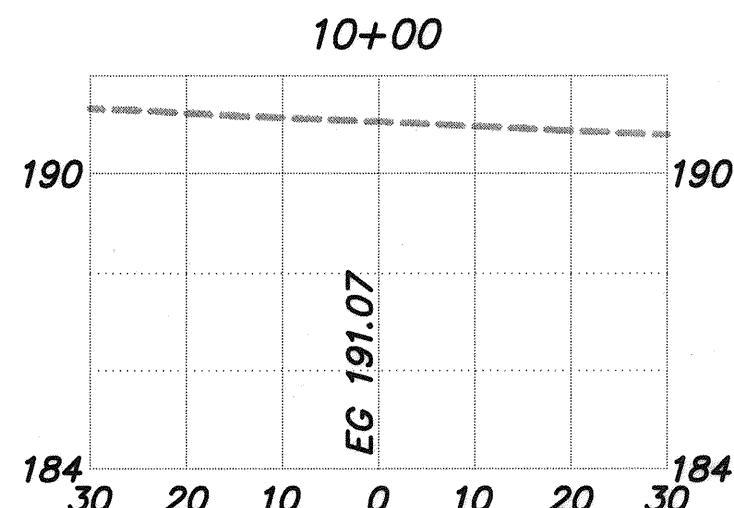
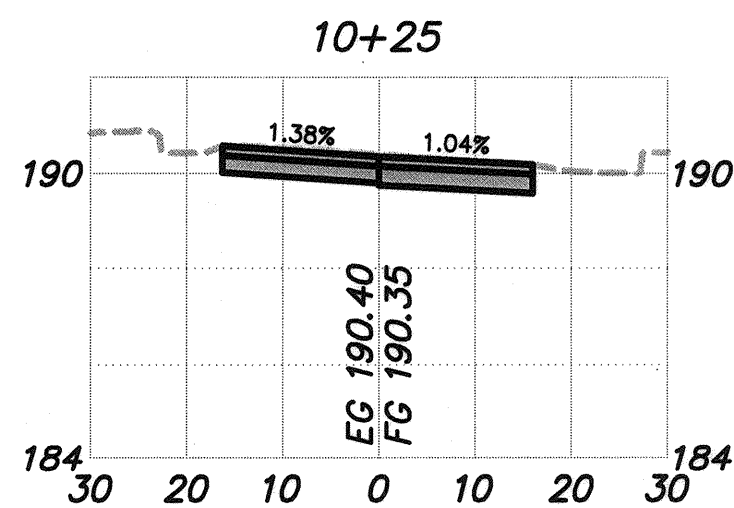
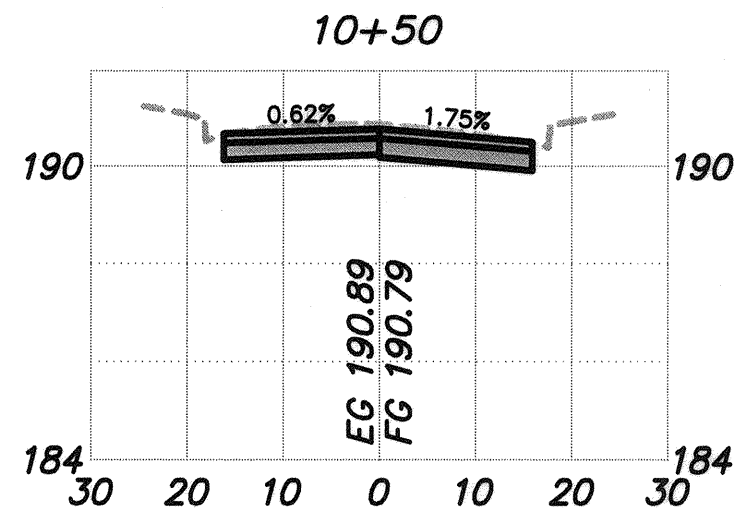
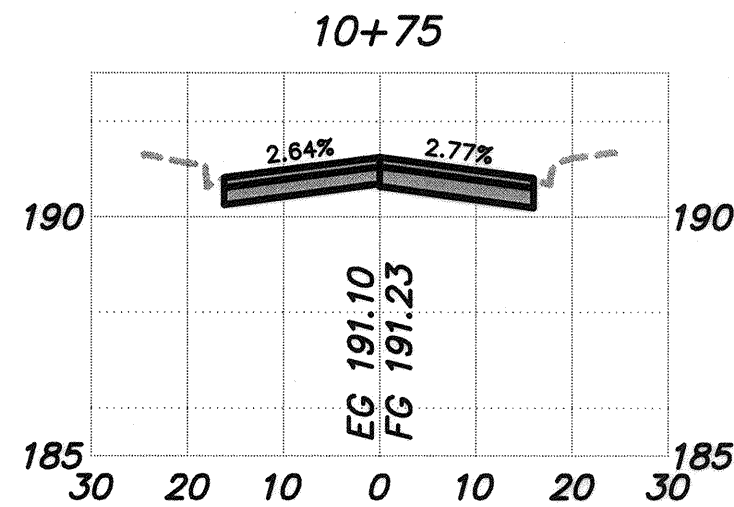
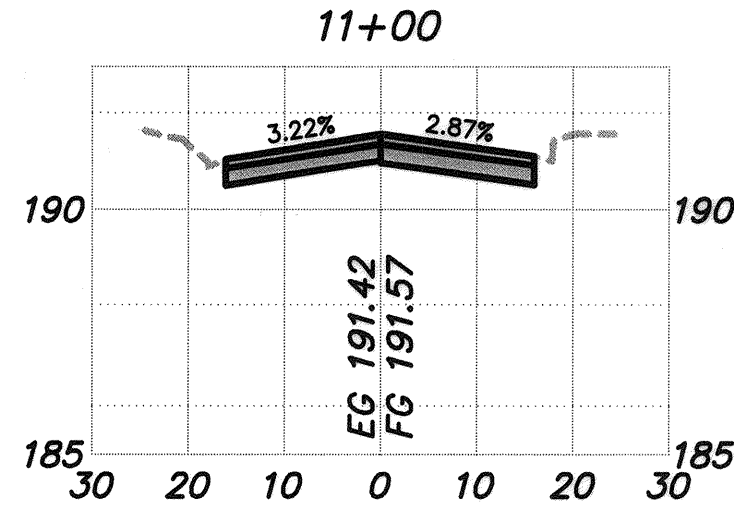
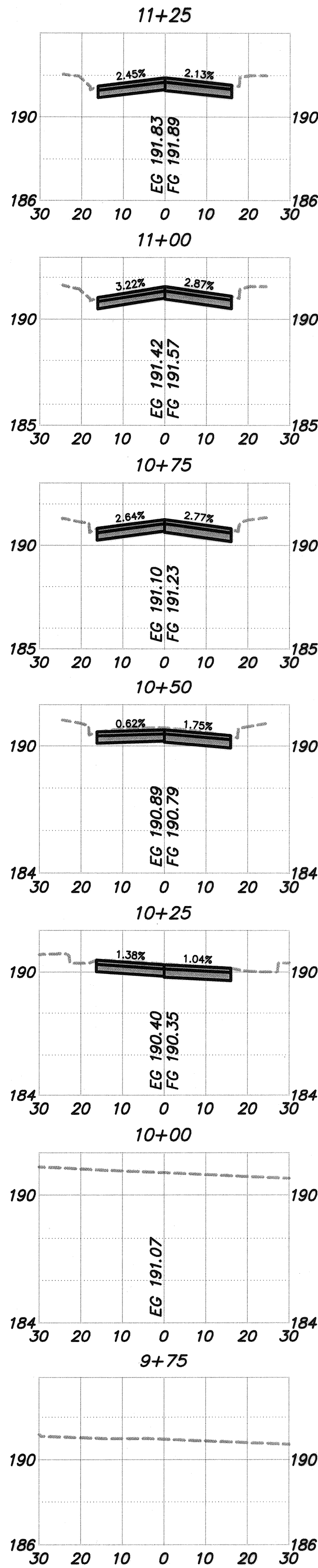
NO.	DATE	REVISION	BY

SCALE: AS SHOWN	DATE: MAY 2018
DWN BY: JLP	CHK BY: JIN
APPROVED: Deputy Director - Engineering	Date: 4/6/18
By: Lori Urbanek	

City of Santa Rosa	CONTRACT NO. C02004
ALVARADO AVE AND VALLEJO ST WATER AND SEWER IMPROVEMENTS	SHEET 7 OF 16
PAVEMENT & MARKING PLAN	FILE NO. 2017-0043

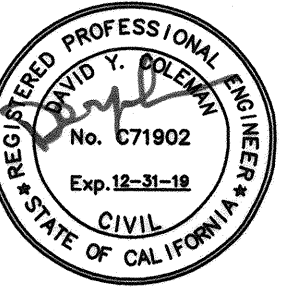


City of Santa Rosa
Brelje & Race
CONSULTING ENGINEERS
1000 AVENUE D, SUITE 200, SANTA ROSA, CA 95402
WWW.BRELJEANDRACE.COM



CROSS SECTIONS - ALVARADO AVENUE

SCALE: HORZ. 1" = 20'
VERT. 1" = 4'

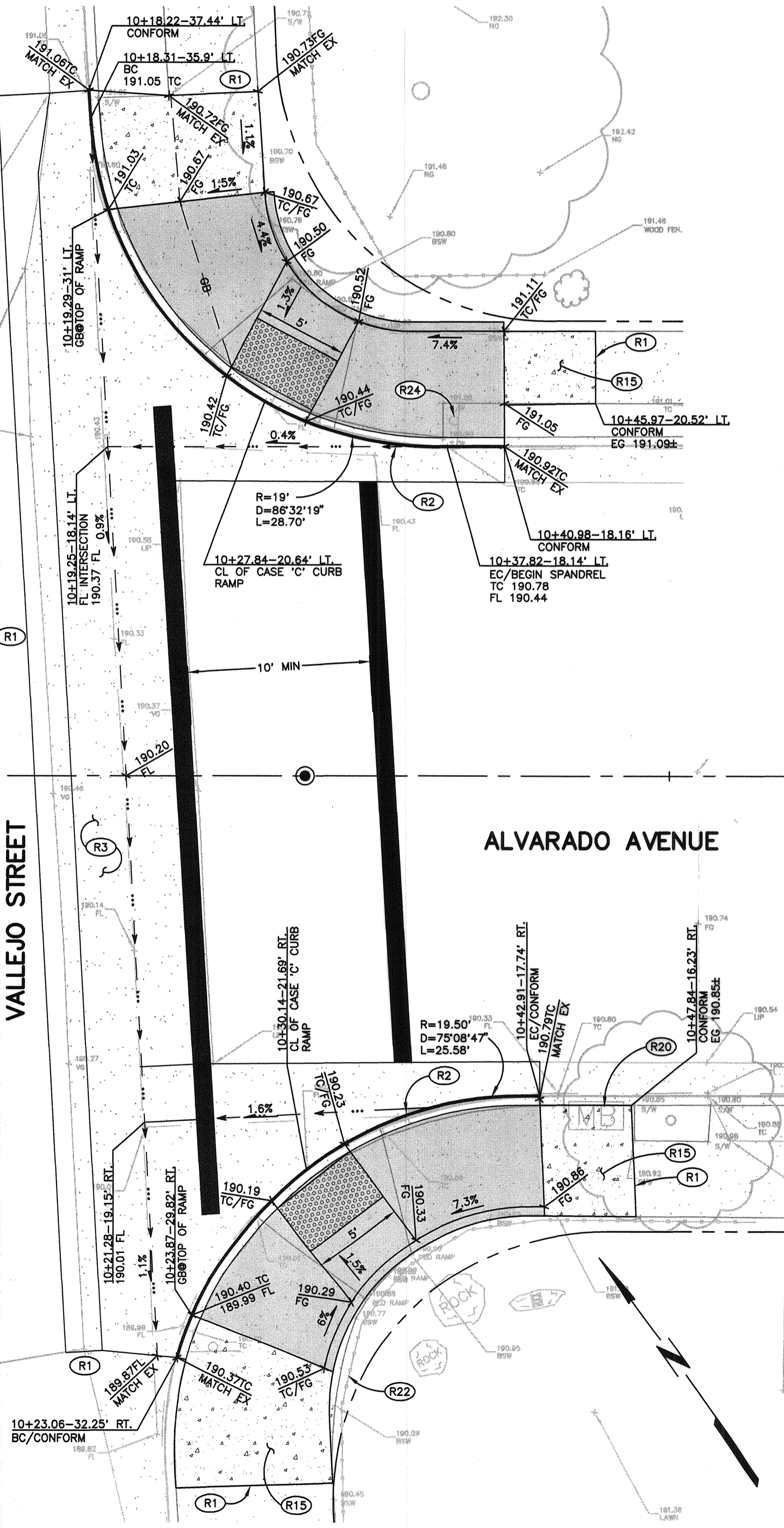


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Brelje & Race
CONSULTING ENGINEERS
1000 Main Street, Suite 200, Santa Rosa, CA 95404
www.brejr.com

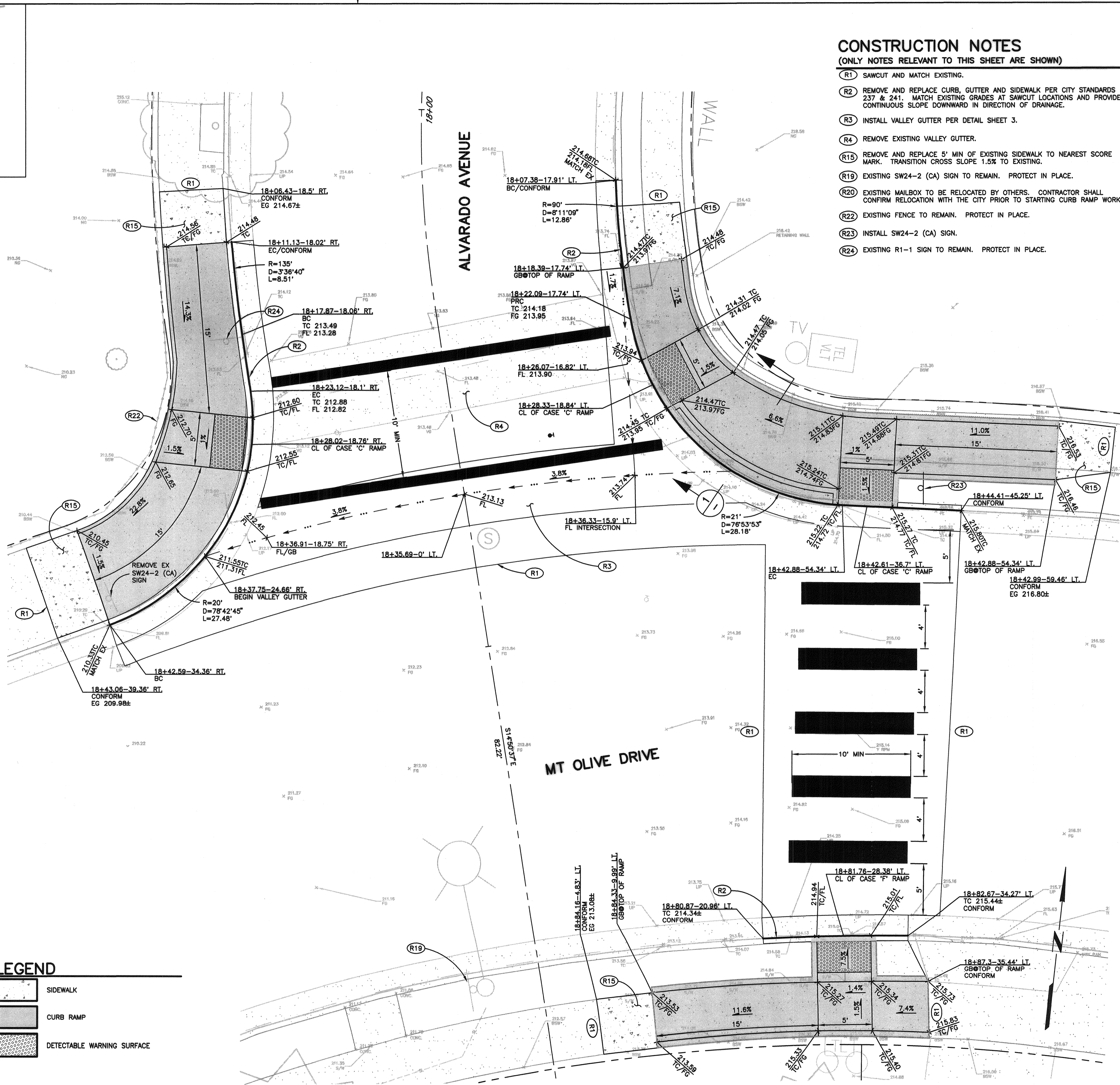
NO.	DATE	REVISION	BY

SCALE: AS SHOWN
DWN BY: PIT
DATE: MAY 2018
CHK BY: JIN
APPROVED: Deputy Director - Engineering
By: *Lori Urbanek* Date: 6/6/18
Lori Urbanek

City of Santa Rosa
ALVARADO AVE AND VALLEJO ST
WATER AND SEWER IMPROVEMENTS
ALVARADO AVENUE
CROSS SECTIONS
CONTRACT NO. C02004
SHEET 8 OF 16
FILE NO. 2017-0043



SCALE: 1"=5'




SCALE: 1"=5'

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

- (R1) SAWCUT AND MATCH EXISTING.
- (R2) REMOVE AND REPLACE CURB, GUTTER AND SIDEWALK PER CITY STANDARDS 237 & 241. MATCH EXISTING GRADES AT SAWCUT LOCATIONS AND PROVIDE CONTINUOUS SLOPE DOWNWARD IN DIRECTION OF DRAINAGE.
- (R3) INSTALL VALLEY GUTTER PER DETAIL SHEET 3.
- (R4) REMOVE EXISTING VALLEY GUTTER.
- (R15) REMOVE AND REPLACE 5' MIN OF EXISTING SIDEWALK TO NEAREST SCORE MARK. TRANSITION CROSS SLOPE 1.5% TO EXISTING.
- (R19) EXISTING SW24-2 (CA) SIGN TO REMAIN. PROTECT IN PLACE.
- (R20) EXISTING MAILBOX TO BE RELOCATED BY OTHERS. CONTRACTOR SHALL CONFIRM RELOCATION WITH THE CITY PRIOR TO STARTING CURB RAMP WORK.
- (R22) EXISTING FENCE TO REMAIN. PROTECT IN PLACE.
- (R23) INSTALL SW24-2 (CA) SIGN.
- (R24) EXISTING R1-1 SIGN TO REMAIN. PROTECT IN PLACE.

[illegible]

SCALE: AS SHOWN	DATE: MAY 2018
OWN BY: DJK	CHK BY: JIN
APPROVED: Deputy Director - Engineering  Date: 5/6/18 Jodi Libbrecht	

City of Santa Rosa

ALVARADO AVE AND VALLEJO ST

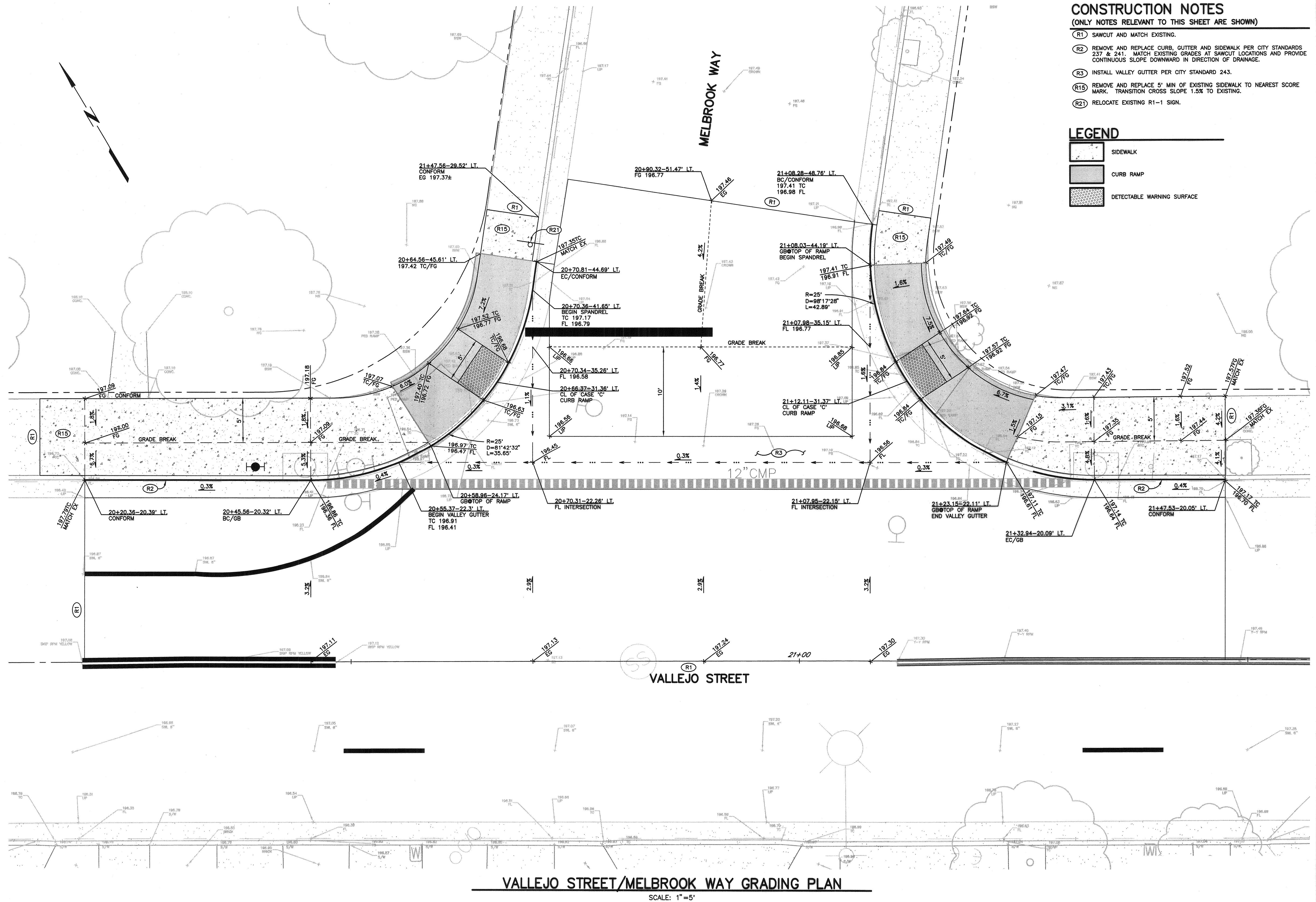
WATER AND SEWER IMPROVEMENTS

CURB RAMP DETAILS

CONTRACT NO.
C02004

SHEET 9 OF 16

FILE NO. 2017-0043






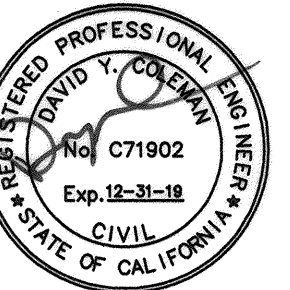
CONSTRUCTION NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

- | | |
|-------|---|
| (R1) | SAWCUT AND MATCH EXISTING. |
| (R2) | REMOVE AND REPLACE CURB, GUTTER AND SIDEWALK PER CITY STANDARDS 237 & 1241. MATCH EXISTING GRADES AT SAWCUT LOCATIONS AND PROVIDE CONTINUOUS SLOPE DOWNWARD IN DIRECTION OF DRAINAGE. |
| (R3) | INSTALL VALLEY GUTTER PER CITY STANDARD 243. |
| (R15) | REMOVE AND REPLACE 5' MIN OF EXISTING SIDEWALK TO NEAREST SCORE MARK. TRANSITION CROSS SLOPE 1.5% TO EXISTING. |
| (R21) | RELOCATE EXISTING R1-1 SIGN. |

LEGEND

- | | |
|---|----------------------------|
|  | SIDEWALK |
|  | CURB RAMP |
|  | DETECTABLE WARNING SURFACE |



City of
Santa Rosa

Brelje & Race
CONSULTING ENGINEERS
475 Aviation Blvd. • Suite 120 • Santa Rosa, CA 95403 • 707-576-1322
www.brelje.com

NO	DATE	REVISION	BY

DWN BY: DJK	CHK BY: JIN
-------------	-------------

DWN BY: DJK

CHK BY: JIN

CHK BY: JIN

APPROVED: Deputy Director - Engineering

By Lori Urbanek
Lori Urbanek

**ALVARADO AVE AND VALLEJO ST
WATER AND SEWER IMPROVEMENTS**

MELBROOK GRADING PLAN

CONTRACT NO.
C02004

HEET 10 OF 16

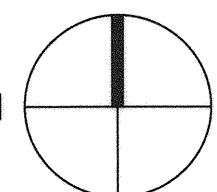
NO. 2017-0043

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

LEGEND OF SYMBOLS					
DESCRIPTION	EXISTING	NEW	DESCRIPTION	EXISTING	NEW
WATER MAIN, PERMANENT BLOWOFF, TEE, GATE VALVE, CROSS AND BEND			GAS MAIN & GAS SERVICE & GAS VALVE		
FIRE HYDRANT & SERVICE ASSEMBLY			ELECTRICAL MH / TELEPHONE MH		
SINGLE WATER SERVICE (SEE PLANS FOR SIZE)			PACIFIC BELL TELEPHONE PULL BOX / VAULT		
WATER MAIN, GATE VALVE, CROSS, & ELBOW			STREET LIGHT/ELECTRICAL CONDUIT & BOXES		
TEMPORARY BLOWOFF, REDUCER, AND TIE-IN			TRAFFIC SIGNAL PULL BOX		
IRRIGATION CONTROL VALVE BOX & SERVICE			STREET LIGHT & TRAFFIC SIGNAL		
SEWER MAIN, MANHOLE & CLEAN OUT			JOINT POLE AND GUY ANCHOR		
SEWER LATERAL & CLEANOUT			OVERHEAD UTILITIES		
STORM DRAIN, MANHOLE & CATCH BASIN			SURVEY CONTROL POINT & SURVEY MONUMENT		
END CAP OR PLUG			STREET SIGN & STREET ADDRESS		
			FENCE & PARKING METER		
			SECTION		



BENNETT VALLEY TRUNK THROUGH
BROOK HILL SCHOOL - BURIED MH-44
NOT TO SCALE




2/28/2018

MKM
& Associates
structural engineering

441 College Avenue
Santa Rosa, CA 95401
Phone: (707) 578-8185
Fax: (707) 578-7153
Internet:
www.mkmassociates.com

City of
Santa Rosa

[illegible]

SCALE:	AS SHOWN	DATE:	APRIL 19, 2017
DWN BY:	FC	CHK BY:	DR
APPROVED: Deputy Director - Engineering			
By			Date 4/18
Lori Urbanek			

City of Santa Rosa

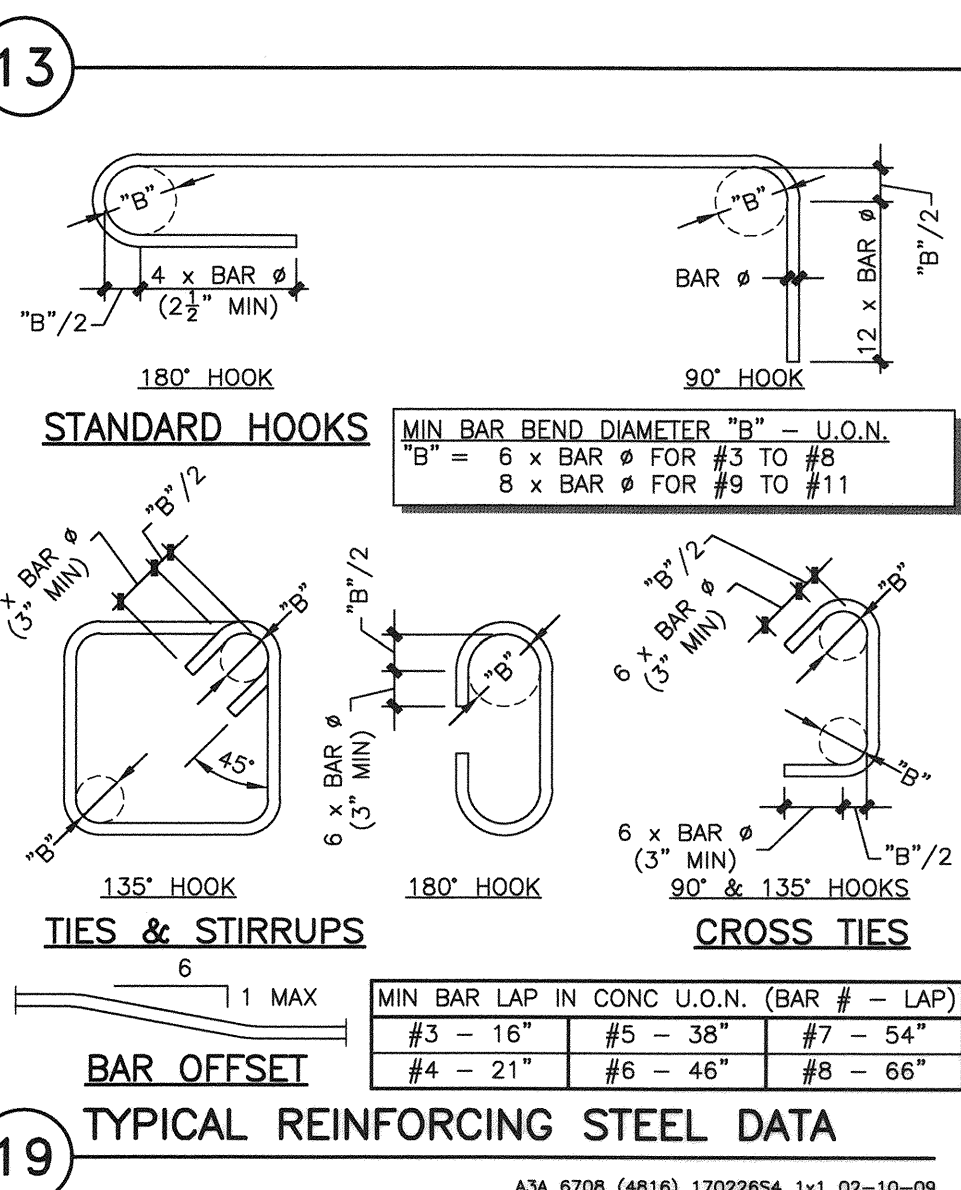
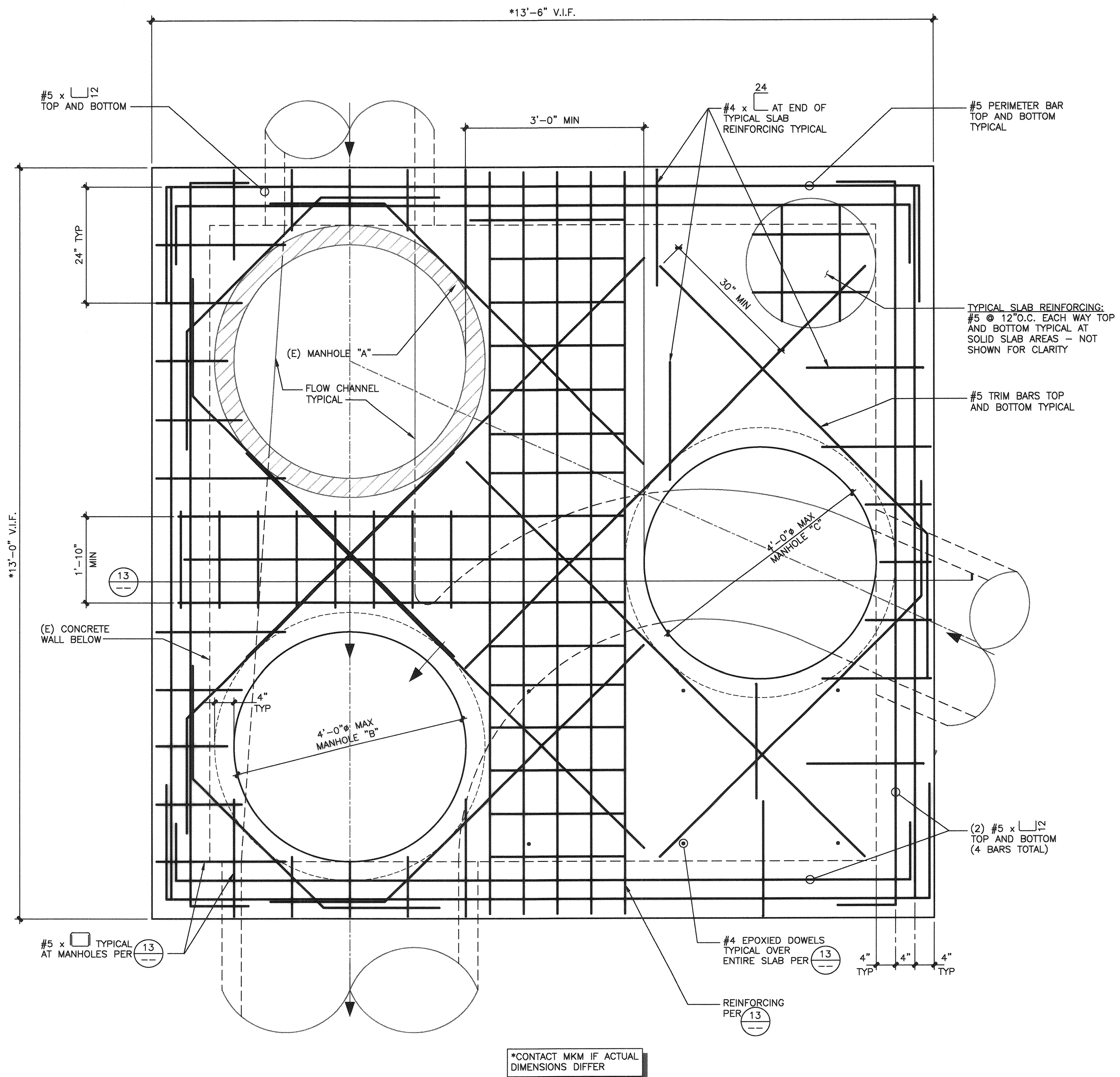
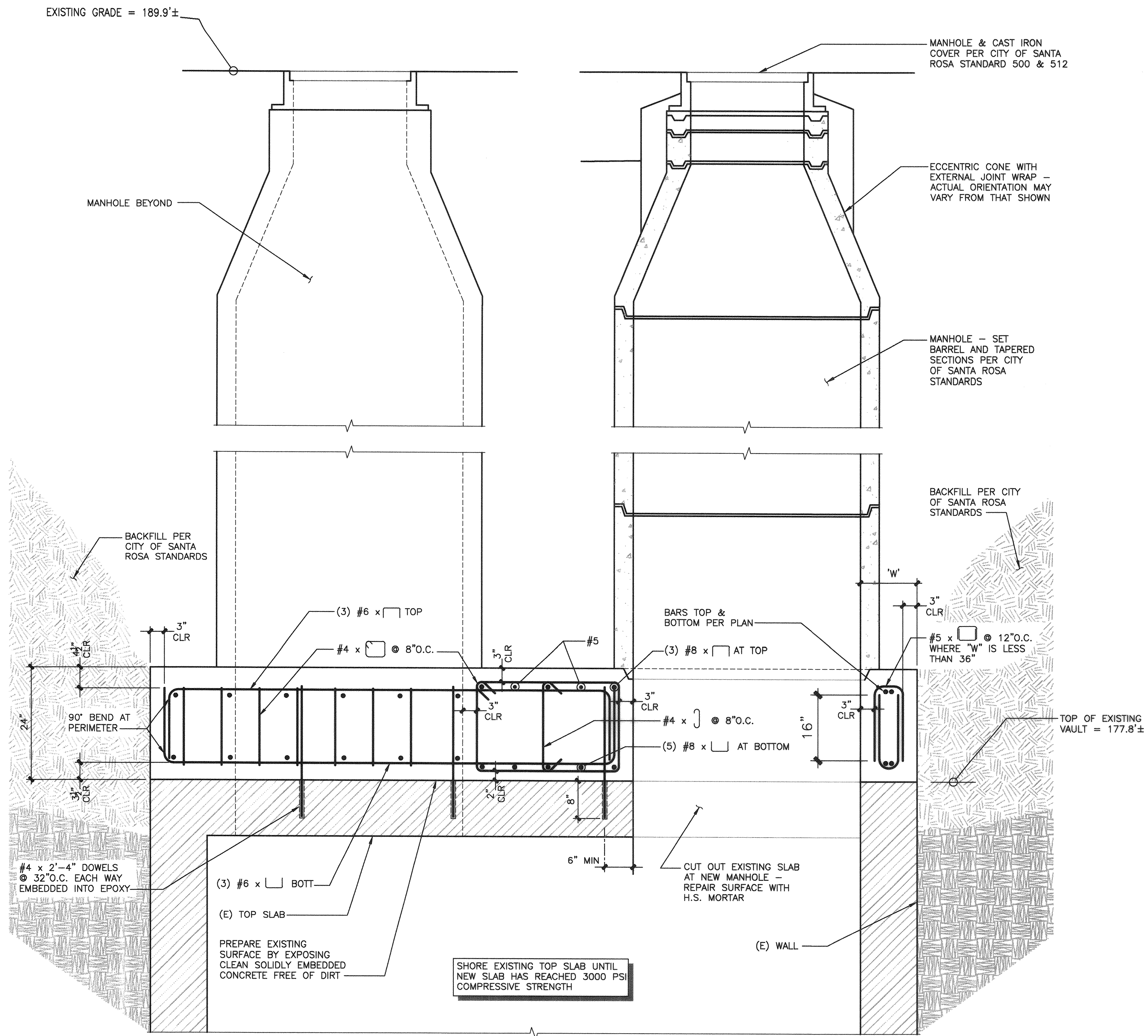
VALLEJO ST TRUNK SEWER JUNCTION STRUCTURE MODIFICATIONS


LEGEND, ABBREVIATIONS AND SITE AERIAL

CONTRACT NO.
C02004

SHEET 11 OF 16

FILE NO. 2017-0043





MKM & Associates
structural engineering
441 College Avenue
Santa Rosa, CA 95401
Phone: (707) 578-8185
Fax: (707) 578-7153
Internet: www.mkmassociates.com

City of Santa Rosa

**VALLEJO ST TRUNK SEWER
JUNCTION STRUCTURE MODIFICATIONS**

STRUCTURAL DETAILS

DATE: APRIL 19, 2017

SCALE: AS SHOWN

DWN BY: FC

APPROVED: Deputy Director - Engineering

By: *Don Webb* Date: 6/6/18

For: Urbarek

2/28/2018

REGISTERED PROFESSIONAL ENGINEER
JOHN MERLE COOPER
No. SE 28927
STRUCTURAL
STATE OF CALIFORNIA

CONTRACT NO.
C02004

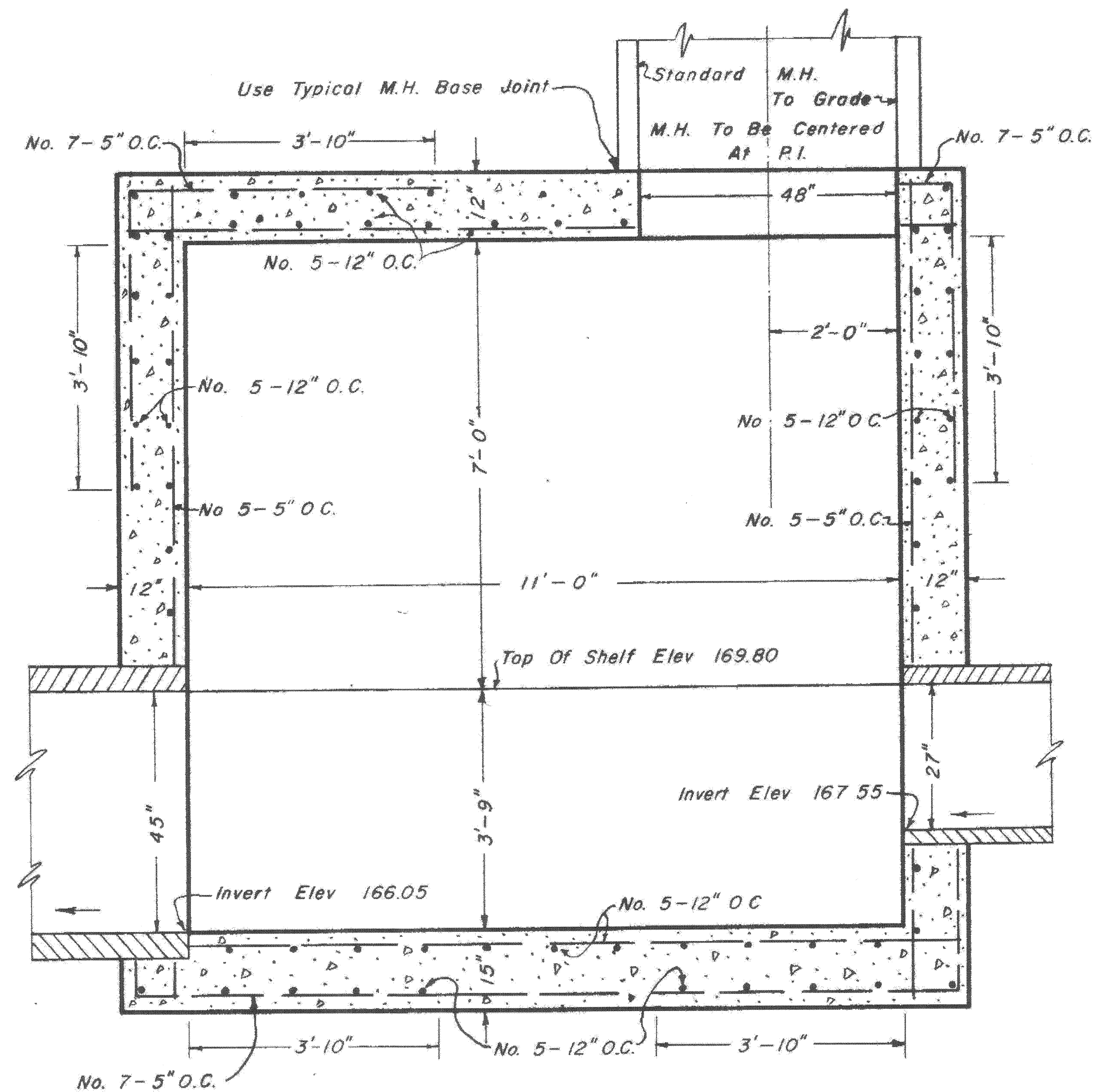
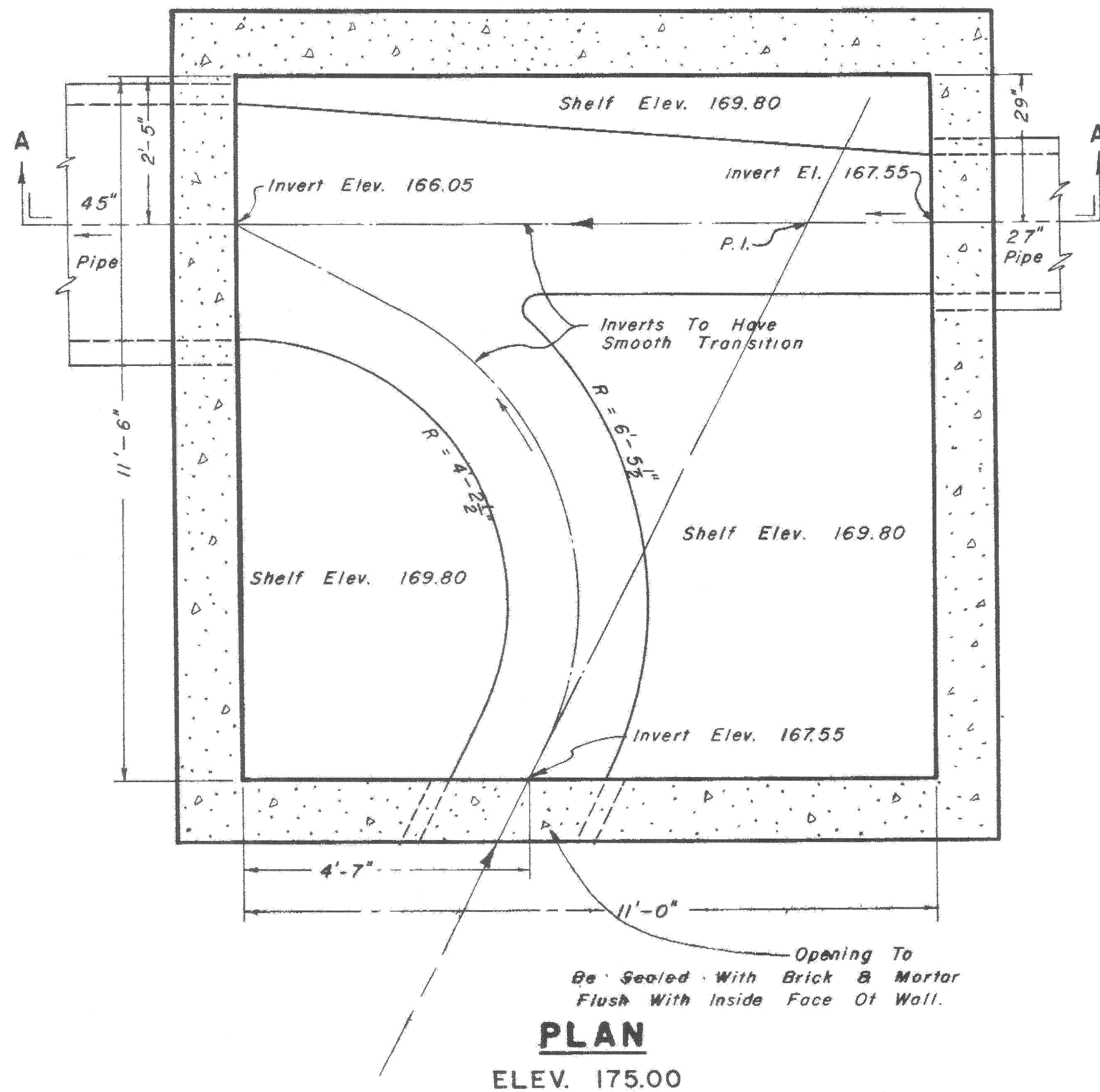
SHEET 13 OF 16

FILE NO. 2017-0043

No. Date

Revision

By



SECTION A-A

MANHOLE NO. 49

Scale: $\frac{1}{2}" = 1'$



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structural engineering

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Santa Rosa, CA 95401
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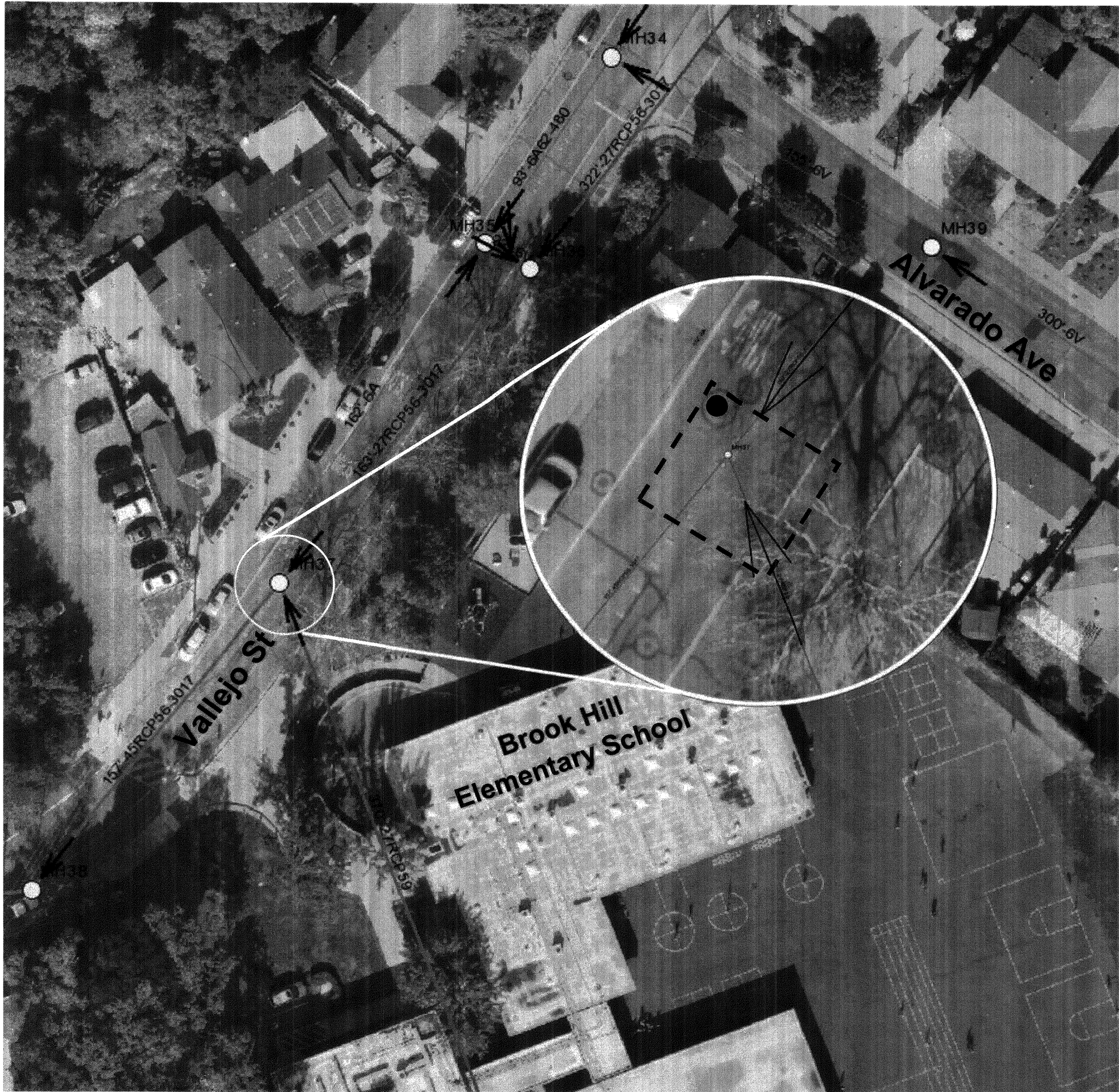
City of
Santa Rosa

No.	Date	Revision	By

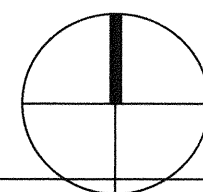
SCALE: AS SHOWN	DATE: APRIL 19, 2017
DWN BY: FC	CHK BY: DR
APPROVED: Deputy Director - Engineering	Date: 4/19/18
By: <i>Lori Urbaneck</i>	
Lori Urbaneck	

City of Santa Rosa
VALLEJO ST TRUNK SEWER
JUNCTION STRUCTURE MODIFICATIONS
JUNCTION STRUCTURE
RECORD PLAN INFORMATION

CONTRACT NO.
C02004
SHEET 14 OF 16
FILE NO. 2017-0043



PROJECT LOCATION AERIAL VIEW
NOT TO SCALE



Vallejo Street Paving limits

Not to Scale

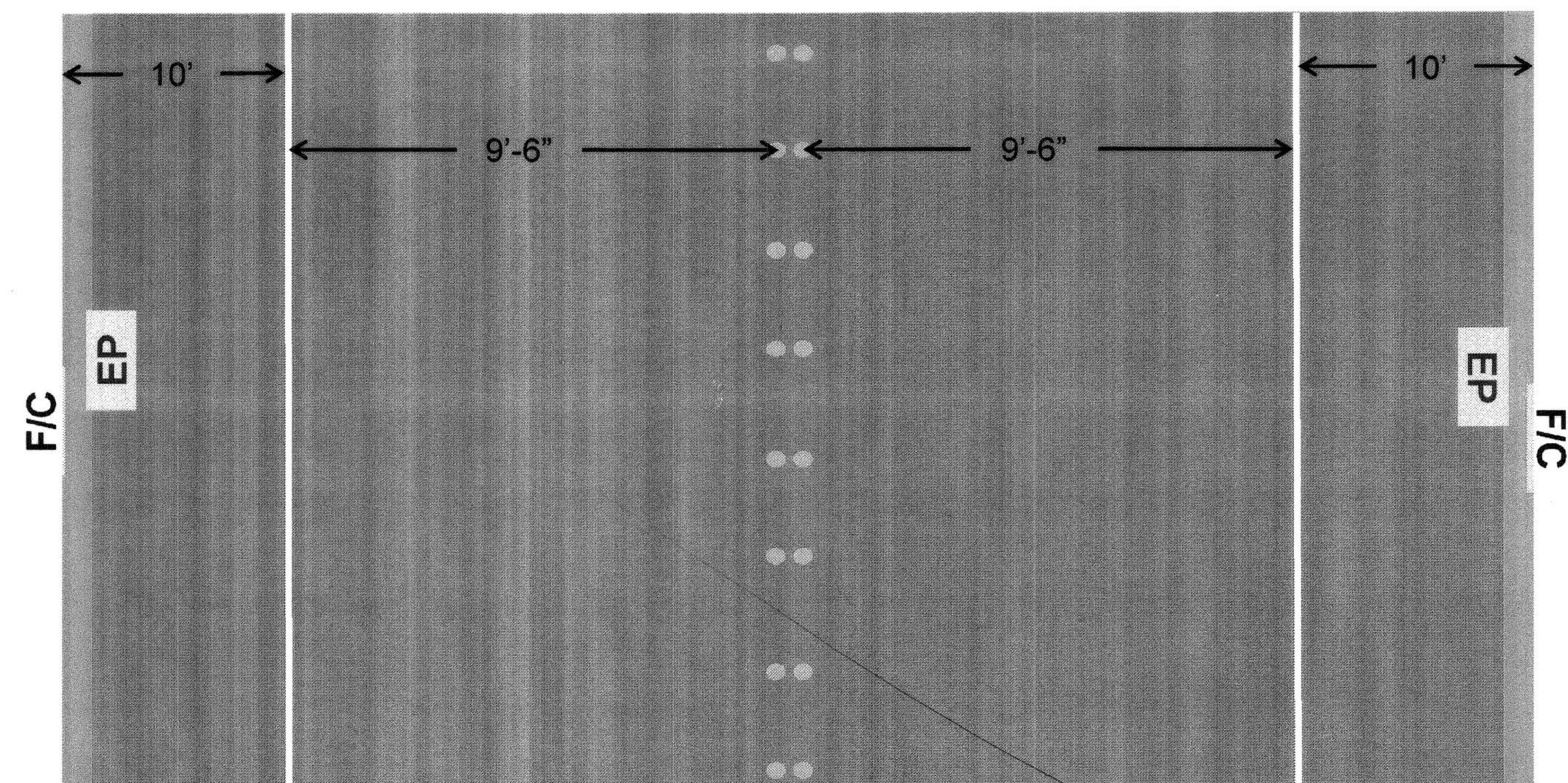
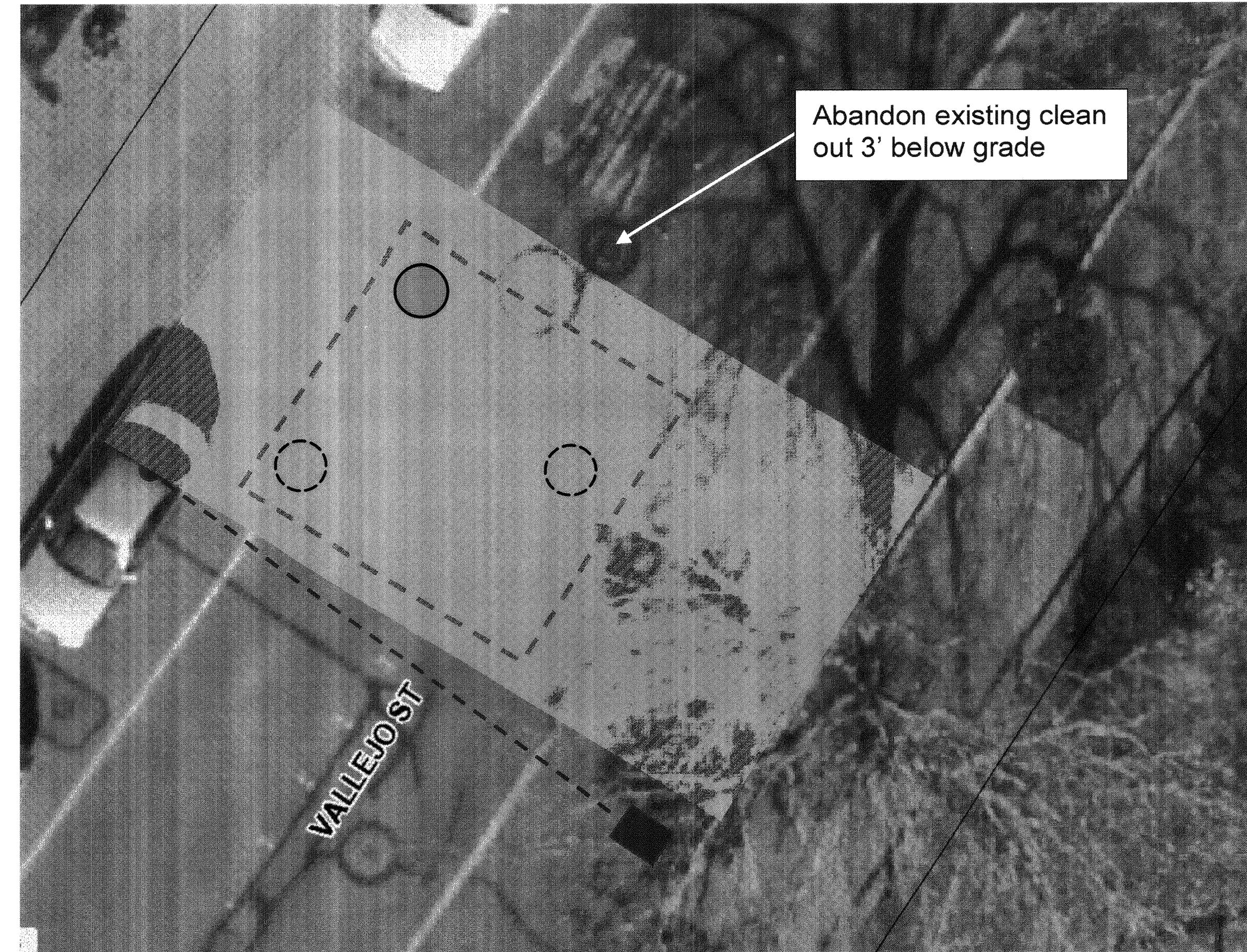
Vault =

1-1/2" Water Service =

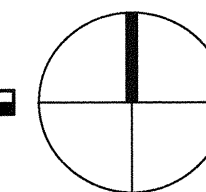
Approx. Paving Limits =

Existing Manhole =

New Manhole =



VALLEJO STREET PAVING LIMITS
NOT TO SCALE



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441 College Avenue
Santa Rosa, CA 95401
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City of
Santa Rosa

No.	Date	Revision	By

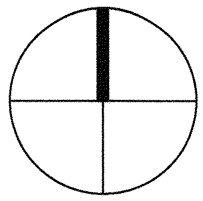
DATE: APRIL 19, 2017
CHK BY: DR
APPROVED: Deputy Director - Engineering
By: *Don Urbanek* Date: 4/18/18
Lori Urbanek

City of Santa Rosa
VALLEJO ST TRUNK SEWER
JUNCTION STRUCTURE MODIFICATIONS
PROJECT LOCATION AERIAL VIEW,
VALLEJO ST. PAVING LIMITS

CONTRACT NO.
C02004
SHEET 15 OF 16
FILE NO. 2017-0043



APPROXIMATE LOCATION OF UNDERGROUND UTILITIES
NOT TO SCALE



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No.	Date	Revision	By

SCALE: AS SHOWN	DATE: APRIL 19, 2017
DWN BY: FC	CHK BY: DR
APPROVED: Deputy Director - Engineering	
By: <i>Lori Urbonek</i>	Date: 6/6/18
Lori Urbonek	

City of Santa Rosa	CONTRACT NO. C02004
VALLEJO ST TRUNK SEWER JUNCTION STRUCTURE MODIFICATIONS	SHEET 16 OF 16
APPROXIMATE LOCATION OF UNDERGROUND UTILITIES	FILE NO. 2017-0043