GENERAL NOTES

- ALL UNDERGROUND UTILITIES AND LATERALS TO BE INSTALLED BEFORE CONSTRUCTION OF CURB, SIDEWALK, OR SURFACING OF STREETS.
- 2. SIDEWALK IS TO BE SIX INCHES THICK THROUGH ALL DRIVEWAYS.
- 3. ALL WORK SHALL BE COMPLETED PER THESE PLANS AND APPROVED REVISIONS. ALL CHANGES OR REVISIONS THERETO, MUST BE ÄPPROVED BY THE CITY ENGINEER. IN WRITING, PRIOR TO ANY REQUEST FOR INSPECTION.
- 4. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES AND STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN HEREON. HOWEVER. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE UNDERGROUND SERVICE ALERT (PHONE 1-800-422-4133) TWO (2) WORKING DAYS IN ADVANCE OF ANY EXCAVATION OF COMMENCEMENT OF WORK. FOR ANY QUESTIONS REGARDING THE MARK OUT OF UNDERGROUND UTILITIES. THE CONTRACTOR SHOULD CONTACT THE RESPECTIVE UTILITY
 - A. STREET LIGHT OR SIGNAL LIGHT CONDUIT
 - CITY OF CHULA VISTA (619) 397-6166
 - B. SEWER OR STORM DRAIN CITY OF CHULA VISTA VERIFICATION CITY OF CHULA VISTA NOTIFICATION
 - (619) 397-6000 (619) 397-6000
- C. GAS AND ELECTRIC
- SAN DIEGO GAS & ELECTRIC
- D. WATER OTAY WATER DISTRICT SAN DIEGO COUNTY WATER AUTHORITY
- E. TELEPHONE
- PACIFIC BELL
- F. TELEVISION COX CABLE OF SAN DIEGO ULTRONICS
- (619) 263-9251 (619) 476-0177

(619) 230-7800

(619) 670-2222

(858) 522-6900

(619) 266-4683

- 5. CITY OF CHULA VISTA INSPECTION NOTICE: A. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE CITY
 - ENGINEER 2 WORKING DAYS IN ADVANCE OF COMMENCEMENT OF WORK. PHONE: (619)397-6128.
- B. THE CONTRACTOR SHALL GIVE 24 HOURS NOTICE (ONE WORKING NOTICE ON ALL CALLS FOR INSPECTION. PHONE: (619)397-6128.
- C. ANY WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL AT CONTRACTOR'S EXPENSE.
- D. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND WORK PRIOR TO THE EXCAVATION FOR INSTALLATION OF NEW UNDERGROUND WORK.
- 6. STREET LIGHT NOTE: THE STREET LIGHTS AND SERVICE POINTS SHOWN HEREON ARE APPROXIMATE ONLY. SERVICE POINTS ARE SUBJECT TO REVISION BY SAN DIEGO GAS AND ELECTRIC COMPANY FINAL PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE PROPER SERVICES TO THE STREET LIGHTS SHOWN ON THE PLAN ACCORDING TO ALL THE APPLICABLE CITY OF CHULA VISTA PLANS AND SPECIFICATIONS. THE DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING CONDUIT AND CONDUCTORS FROM STREET LIGHTS TO APPROVED SERVICE POINTS FURNISHED BY THE SAN DIEGO GAS AND ELECTRIC COMPANY. CONDUIT RUNS AND CONDUCTOR SIZE FROM STREET LIGHTS TO SERVICE POINTS SHALL BE SHOWN ON THESE PLANS AND APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION. STREET LIGHTING CONDUIT SHALL BE 1 112" MIN. PVC (SCHEDULE 80). FINAL LOCATION AND SIZE OF STREET LIGHTS. CONDUIT. WIRE AND PULL BOXES SHALL BE APPROVED PRIOR TO BEGINNING OF CONSTRUCTION.
- NEITHER THE OWNER NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN. CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS DURING CONSTRUCTION OPERATIONS.
- 8. LOCATION AND TYPE OF STREET TREES FOR EACH LOT TO BE DETERMINED BY THE GENERAL SERVICES AND PUBLIC WORKS OPERATIONS DEPARTMENTS—STREET OPERATIONS.
- 9. MAXIMUM DISTANCE BETWEEN PULL BOXES IS 190 FEET.
- 10. ALL UTILITIES SHALL HAVE A MINIMUM OF 90% RELATIVE COMPACTION IN ALL TRENCH
- 11. AS-BUILT DRAWINGS: A SET OF BLUELINE PRINTS AND A SET OF SPECIFICATIONS SHALL BE KEPT ON-SITE BY THE CONTRACTOR AT ALL TIMES ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL UTILITIES, ARE TO BE RECORDED.
- 12. CONTRACTOR SHALL FURNISH TO THE ENGINEER OF WORK AS—BUILT PLANS FOR ALL NEW IMPROVEMENTS SHOWN ON THESE PLANS FOR SUBMITTAL TO THE CITY ENGINEER
- 13. THE OWNER MUST OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (D.O.S.H.) PRIOR TO THE START OF CONSTRUCTION.
- 14. ALL STORM DRAIN PIPE SHALL BE 1500 D-LOAD UNLESS OTHERWISE SHOWN ON THESE PLANS.
- 15. DUST GENERATED BY CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE LOCAL DUST CONTROL AND UNIFORM BUILDING CODE (UBC) REQUIREMENTS WHICH INCLUDE DUST CONTROL MEASURES FOR CONSTRUCTION SITÉS. DUST REDUCING MEASURES SHALL INCLUDE REGULAR WATERING OF GRADED SURFACES AND RESTRICTION OF ALL CONSTRUCTION VEHICLES AND EQUIPMENT TO TRAVEL ALONG ESTABLISHED AND REGULARLY WATERED ROADWAYS.

NOTE

WHERE LOCAL STATIC WATER PRESSURE IS IN EXCESS OF (80) POUND PER SQUARE INCH, AN APPROVED TYPE PRESSURE REGULATOR PRECEDED BY AN ADEQUATE STRAINER SHALL BE INSTALLED AND THE STATIC PRESSURE REDUCED TO (80) POUNDS PER SQUARE INCH OR LESS (2013 CPC 608.2). SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION.

DIG ALIERT

SIGNATURE

Printed Name

My Registration Expires

CONTRACTOR:

DATE COMPLETED:

INSPECTOR:

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRED THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALIERT I.D. NUMBER. CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-422-4133 AT LEAST TWO WORKING DAYS BEFORE YOU DIG.

REFERENCES

DWG NO. 14031, MAP NO. 15350,

DWG NO. 16017, DWG NO. 16013,

OWD NO. D0965-090259

DWG NO. 14024 (W.O. NO. 0R838G), LAT33 CITY AS-BUILT



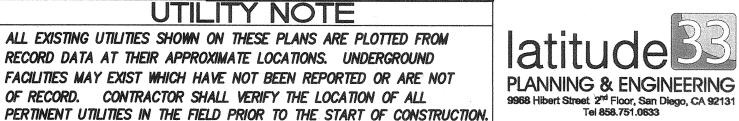
TWO WORKING DAYS BEFORE YOU DIG UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM

FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT

RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND

OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL



PRIVATE IMPROVEMENT PLANS FOR:

OTAY RANCH VILLAGE II R-17B(b)

CHULA VISTA, CALIFORNIA

SPECIAL NOTES

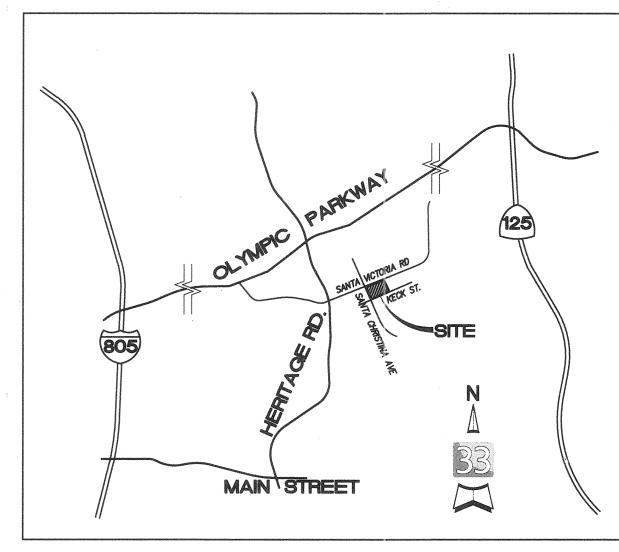
- THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES, STREETS. UTILITIES, AND STORM DRAINS ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES. THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK AT (858)558-4500 AND THE CITY INSPECTOR. CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM CONTRACTOR'S OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, HAY BALES, TEMPORARY DESILTING BASINS. SILT FENCES, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE TOTAL PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER OWNER, AGENCY OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.
- 2. CONTRACTOR WILL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING
- 3. LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET (OR AVOIDED) BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR SHALL REPORT TO THE ENGINEER OR CITY INSPECTOR ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND THE PLANS.
- 4. BEFORE EXCAVATING FOR THIS CONTRACT. THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS.
- 5. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- CONTRACTOR AGREES: TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS: AND THAT THE CONTRACTOR SHALL DEFEND. INDEMNIFY AND HOLD THE OWNER. THE ENGINEER AND THE CITY OF CHULA VISTA HARMLESS FROM ANY AND ALL LIABILITY. REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING THEREFROM LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER OR THE CITY OF CHULA VISTA.
- CONTRACTOR IS RESPONSIBLE FOR HAVING TRAFFIC CONTROL PLANS APPROVED BY THE CITY ENGINEER PRIOR TO COMMENCING ANY WORK IN THE PUBLIC RIGHT OF WAY.
- CONTRACTOR SHALL REPAIR ALL DESTROYED OR DAMAGED EXISTING SURFACE IMPROVEMENTS WITH IMPROVEMENTS EQUAL OR SUPERIOR.
- ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE JOB SITE TO AN APPROVED
- 10. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS AND THE CITY ENGINEER.
- STOP SIGN AND STREET NAME SIGN POLES SHALL BE CONSTRUCTED CONCURRENT WITH SIDEWALK CONSTRUCTION IN ACCORDANCE WITH CVDS-TROS & TRO6A

PUBLIC IMPROVEMENT AND GRADING PLAN MONUMENTATION NOTE

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE. REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK OR PROPOSED IMPROVEMENTS: AND IF DESTROYED, A LAND SURVEYOR, OR A CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING SHALL REPLACE SUCH MONUMENTS WITH THE APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE. SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF CHULA VISTA FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING. AT LEAST THREE (3) DAYS PRIOR TO THE CONSTRUCTION. THE DEVELOPER/CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

PRECONSTRUCTION CONFERENCE

THE CONTRACTOR SHALL NOT BEGIN ANY WORK ON THIS PROJECT UNTIL A PRECONSTRUCTION CONFERENCE IS HELD WITH THE ENGINEER OF WORK, THE DEVELOPER. THE CITY. THE CITY MITIGATION MONITOR, THE SOILS ENGINEER, ENGINEERING GEOLOGIST. THE BIOLOGICAL MONITOR. THE PALEONTOLOGICAL MONITOR, THE ARCHEOLOGICAL MONITOR, THE SOILS REMEDIATION CONSULTANT, AND THE OTAY WATER DISTRICT. A MINIMUM OF 72 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF THIS MEETING.



VICINITY MAP

NO SCALE

SHEET INDEX

SHEET 1 TITLE SHEET SHEET 2 NOTES AND KEY MAP SHEET 3 CROSS SECTIONS AND DETAILS

SHEET 4-10 IMPROVEMENT PLANS SHEET 11. LATERAL TABLE SHEET 12-14. CHULA VISTA FIRE DEPARTMENT DETAILS AND NOTES

LEGAL DESCRIPTION

A PORTION OF LOT 30 & 31 OF CHULA VISTA TRACT NO. 06-05 OTAY RANCH VILLAGE 2 AND PORTIONS OF VILLAGE 4 "A" MAP , IN THE CITY OF CHULA VISTA, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 15350 FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY MAY 26, 2006.

ASSESSORS PARCEL NUMBER

APN 644-313-03-00

BASIS OF BEARINGS

THE BASIS OF BEARING FOR THIS SURVEY IS A LINE IN THE WESTERLY SUBDIVISION BOUNDARY OF MAP NO. 15350. (I.E. NO2°20'50"W)

(FOR COMPLETE PROCEDURE OF SURVEY, SEE CHULA VISTA TRACT NO. 06-05, OTAY RANCH VILLAGE 2 AND PORTIONS OF VILLAGE 4 "A" MAP. MAO NO. 15350.)

BENCHMARK

DESCRIPTION: BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SO SIDE OF GRAVEL RD 225'±W OF GATE TO A.V.R. TRACKING STA 15'± E OF METAL GATE. (PT # 1344 PER R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

OWNER/DEVELOPER

BALDWIN & SONS 610 WEST ASH, SUITE 1500 SAN DIEGO. CA 92101 TEL: (619) 515-9114 | FAX: (619) 234-4088

OWNER'S CERTIFICATE

IT IS AGREED THAT THE FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS. IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE THE ENGINEER OF WORK MAKE SUCH CHANGES, ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE ENGINEER OF WORK DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETION OF THE IMPROVEMENTS. ALL PLAN CHANGES SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO

I FURTHER AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING CITY RIGHT-OF-WAY WITHIN 60 DAYS AFTER ISSUANCE OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVELY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED, IRRESPECTIVE AND INDEPENDENT OF ANY OTHER WORK ASSOCIATED WITH THIS PROJECT OR UNDER MY CONTROL.

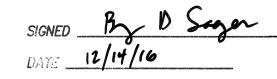
NAME: BALDWIN & SONS ADDRESS: 610 WEST ASH, SUITE 1500 SAN DIEGO. CA 92101 PHONE: TEL: (619) 515-9114 | FAX: (619) 234-4088 NICK LEE VICE PRESIDENT BALDWIN & SONS

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH

UNDERSTAND THAT THE CHECK OF THE PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF CHULA VISTA AND WATER DISTRICT IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITY FOR THE PROJECT DESIGN.

LATITUDE 33 PLANNING AND ENGINEERING 9968 HIBERT STREET. 2ND FLOOR SAN DIEGO. CA 92131

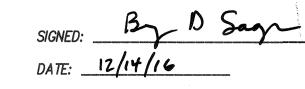


PRINTED NAME: BRADLEY D. SAGER P.E. NO. C054564



ENGINEER OF WORK CERTIFICATE

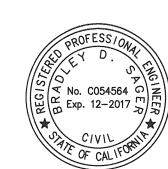
I HEREBY CERTIFY THAT IN MY BEST OPINION ALL WORK INCORPORATED IN PLAN SHEETS 1 THROUGH [] AND AUTHORIZED UNDER GRADING PERMIT NO. OR-8621 HAS BEEN CONSTRUCTED TO THE LINES AND GRADES IN SUBSTANTIAL CONFORMANCE WITH SAID PLANS AND ANY APPROVED REVISIONS.



PRINTED NAME: BRADLEY D. SAGER P.E. NO. C054564 DISCIPLINE: CIVIL

COMPANY NAME: GEOCON, INC.

DISCIPLINE: GEOTECHNICAL



SOILS ENGINEER'S CERTIFICATE

I. SHAWN WEEDON, A REGISTERED GEOTECHNICAL ENGINEER OF THE STATE OF CALIFORNIA PRINCIPALLY DOING BUSINESS IN THE FIELD OF APPLIED SOILS MECHANICS. HEREBY VERIFY THAT A SAMPLING AND STUDY OF THE SOIL CONDITIONS PREVALENT WITHIN THIS SITE WAS MADE BY GEOCON, INC. ONE COMPLETE COPY OF THE SOILS REPORT DATED FEBRUARY 24, 2016 WITH MY RECOMMENDATIONS, HAS BEEN SUBMITTED TO THE OFFICE OF THE CITY

THESE IMPROVEMENT PLANS HAVE BEEN REVIEWED BY ME OR UNDER MY DIRECTION AND CONFORM THE RECOMMENDATIONS MADE IN THE SOILS REPORT MENTIONED ABOVE.

ADDRESS: 6960 FLANDERS DRIVE, SAN DIEGO, CA 92121 PRINTED NAME: SHAWN WEEDON P.E. NO: 2714



THOMAS E. ADLER

No. 59934

6/30/18

WORK TO BE DONE

THE WORK TO BE DONE CONSISTS OF THE ITEMS INDICATED UNDER THE "LEGEND" SHOWN ON THIS SHEET AND IS TO BE DONE IN ACCORDANCE WITH THESE PANS AND THE FOLLOWING LIST OR PRINTED MATERIALS AS CURRENTLY ADOPTED BY THE CHULA VISTA CITY COUNCIL INCLUDING THE FOLLOWING:

- 1. 2012 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK") AND 2012 REGIONAL SUPPLEMENTS AMENDMENTS (TO THE GREENBOOK)
- 2. 2012 SAN DIEGO AREA REGIONAL STANDARD DRAWINGS 2015 CITY OF CHULA VISTA STANDARD SPECIAL PROVISIONS (TO THE GREENBOOK)
- 2002 DESIGN AND CONSTRUCTION STANDARDS OF THE CITY OF CHULA VISTA PORTION OF THE STATE STANDARD SPECIFICATIONS, STATE OF CALIFORNIA DEPARTMENT
- OF TRANSPORTATION, DATED JULY 2010 AND ALL SUBSEQUENT ADDITIONS AND REVISIONS 6. PORTION OF THE STATE STANDARD PLANS, STATE OF CALIFORNIA DEPARTMENT OF
- TRANSPORTATION, DATED JULY 2010 AND ALL SUBSEQUENT ADDITIONS AND REVISIONS
- 7. 2010 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ("CA-MUTCD") AND ALL SUBSEQUENT ADDITIONS AND REVISIONS

ALL REFERENCES ARE TO BE MADE PART OF THESE PLANS. ANY CHANGES OR REVISIONS THEREFROM SHALL BE APPROVED BY THE CITY ENGINEER. OR HIS DESIGNEE. PRIOR TO ANY REQUEST FOR INSPECTION.

PROPOSED ITEMS

LEGEND	DRAWING NO.	SYMBOL
PROPERTY BOUNDARY		
EASEMENT LINE		
STREET CENTERLINE		
PROPOSED CONTOURS		95
STREET GRADE		2.00%
STREET STATION AND ELEV	/A TION · · · · · · · · · · · · · · · · · · ·	1 <u>+0</u> 0 472.93
SEWER LINE (8" PVC)	· · · · · · · · · · · · · · · · · · ·	
60" SEWER MANHOLE	SM—01·····	
SEWER CLEANOUT	······SC-01·····	•
4" SEWER LATERAL	······ss–01·····	<u> </u>
WATER LINE (6" PVC)		
1" WATER SERVICE LATERA	LWS-02	
FIRE LINE (4" PVC)		FW
1" FIRE SERVICE LATERAL.		
CONCRETE THRUST BLOCK.	<i>WT</i> -01	4
BLOWOFF VALVE	<i>WB-03</i>	
•	VEWA-05	
	WR-02/WF-05 PER SEPARATE PLAI	VS 85588
	ALVE	•
	•••••	
	SDRSD NO. G-2	
PCC SIDEWALK		A
PCC CROSS GUTTER		
		<u> </u>
PEDESTRIAN RAMP		
STORM DRAIN PIPE	SEE ROUGH GRADING PLANS	
STORM DRAIN CLEANOUT	SEE ROUGH GRADING PLANS	
STORM DRAIN CURB INLET.	SEE ROUGH GRADING PLANS	
PCC PAVING PER PCC PAVEMENT SECTION, SHEET	3	A
AC PAVING PER AC PAVEMENT SECTION, SHEET	3	

EXISTING ITEMS

TOTAL NUMBER OF SHEETS = 14

OTAY RANCH VILLAGE TWO - R-17B(b)

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

LEGEND

EXISTING STREET LIGHT

EXISTING SEWER MAIN-

EXISTING WATER MAIN-

EXISTING CONTOURS

EXISTING STORM DRAIN PIPE

16019 - 01

H: \1300\1341.00 — Otay Ranch R-178 ()\Engineering\Plane\Improvement\1341.00 SHT 01.do

CONSTRUCTION RECORD

AS BUIL

SO SIDE OF GRAVEL RD 225' +- W OF GATE TO A.V.R. TRACKING STA 15'+- E OF METAL GATE. (PT# 1344 PER ELEVATION = 520.425 (NAVD '88)

- IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD

SCALE

HORIZONTAL

N/A

VERTICAL

Plans Prepared Under Supervision Of: D Sagar

Drawn By:

Designed By:

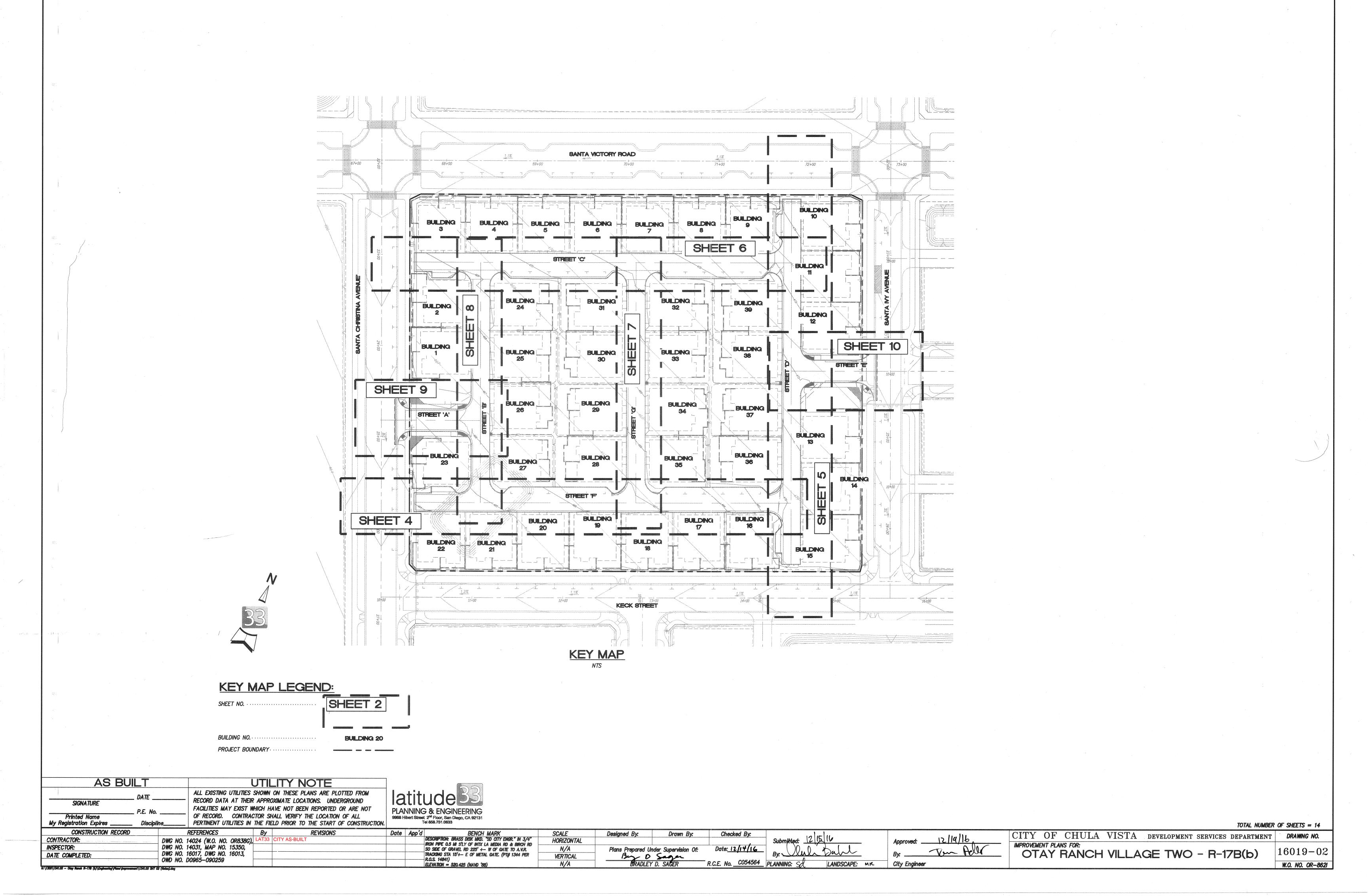
Checked By: Date: 12/14/16 R.C.E. No. C054564 PLANNING:

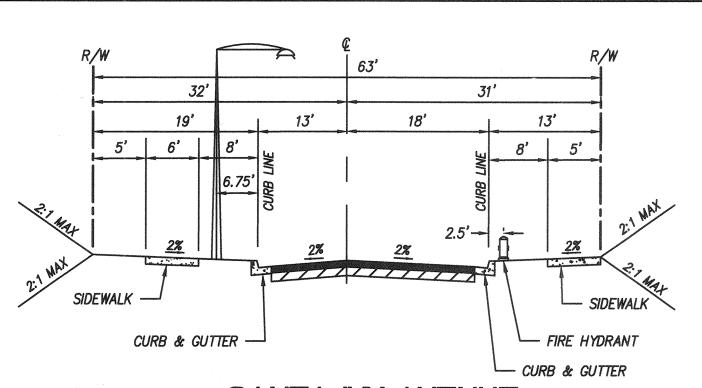
LANDSCAPE: MR

Tom Adle

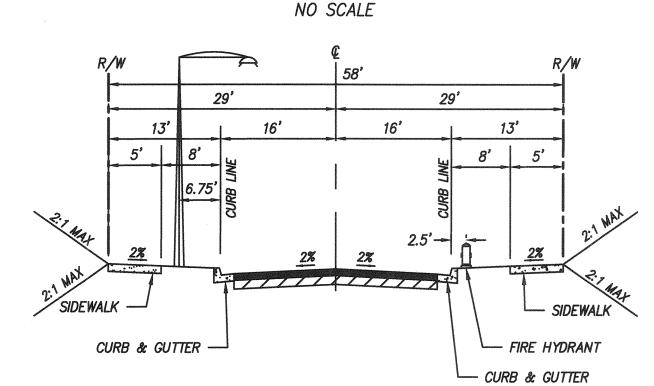
W.O. NO. OR-8621

SYMBOL

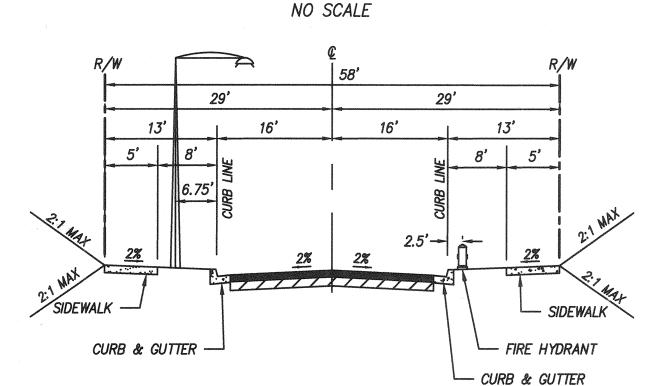




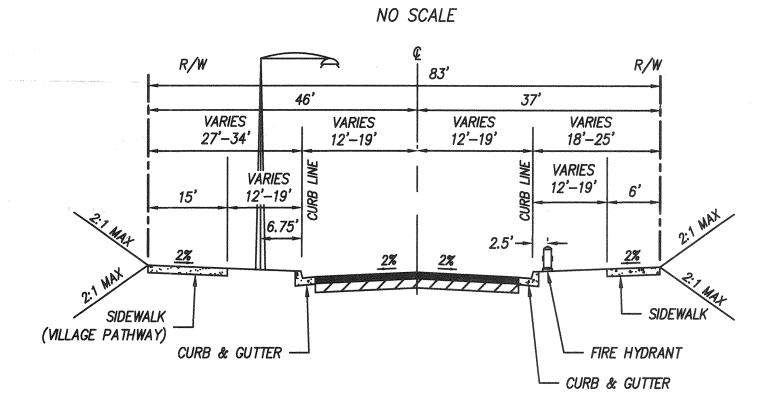
SANTA IVY AVENUE (EXISTING PUBLIC ROAD)



KECK ROAD (EXISTING PUBLIC ROAD)



SANTA CHRISTINA AVENUE (EXISTING PUBLIC ROAD)

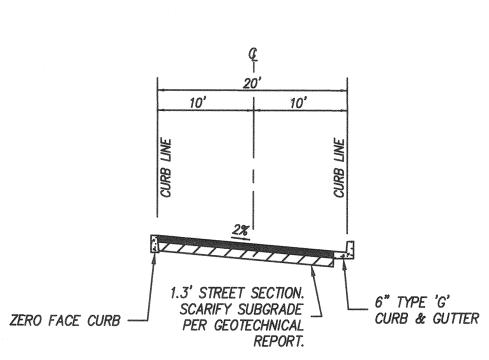


SANTA VICTORIA ROAD (EXISTING PUBLIC ROAD)

NO SCALE

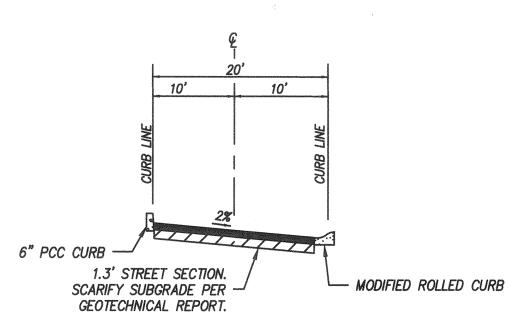
REVISIONS

733 CITY AS-BUILT



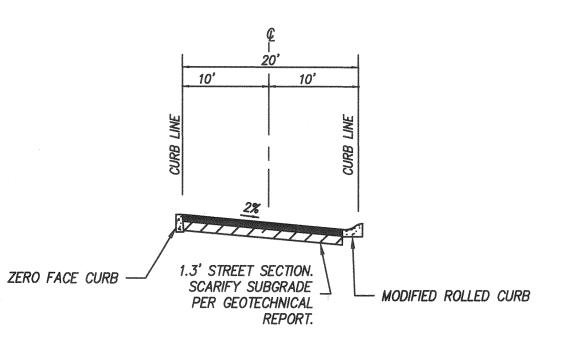
PRIVATE STREET 'C' (STREET 'C' STA. 1+01.67-1+21.02)

NO SCALE



PRIVATE STREET 'F' (STREET 'F' STA. 1+01.67-1+21.02)

NO SCALE



PRIVATE STREET 'D' (STREET 'D' STA. 1+01.67-1+16.56)

NO SCALE

1.3' STREET SECTION.
_ SCARIFY SUBGRADE 4" PCC SIDEWALK 4" PCC SIDEWALK PER GEOTECHNICAL 6" CURB & GUTTER 6" CURB & GUTTER PRIVATE STREET 'A'

NO SCALE

SCALE

HORIZONTAL

N/A

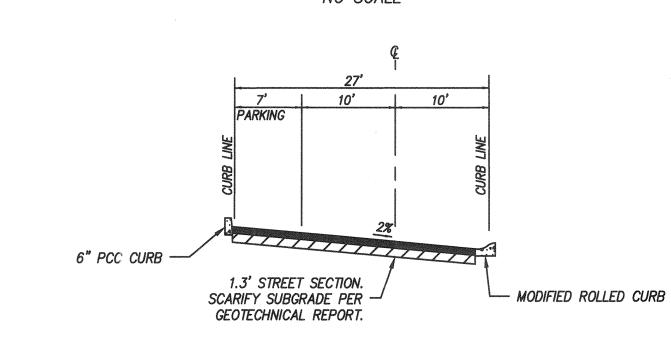
VERTICAL

PLANNING & ENGINEERING

10' ZERO FACE CURB — 6" PCC CURB & GUTTER 1.3' STREET SECTION. SCARIFY SUBGRADE PER GEOTECHNICAL

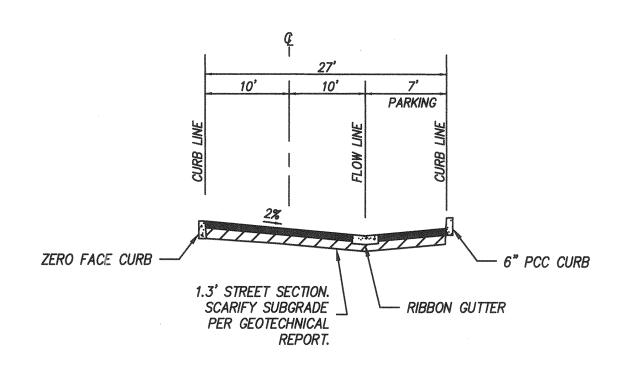
PRIVATE STREET 'C' WITH PARALLEL PARKING (STREET 'C' STA. 2+07.98-3+11.98, 3+78.94-4+82.94)

NO SCALE

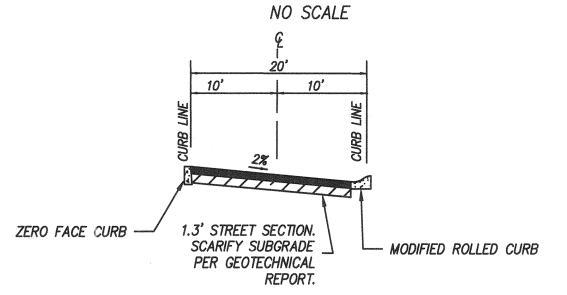


PRIVATE STREET 'F' WITH PARALLEL PARKING (STREET 'F' STA. 2+07.98-3+11.98, 3+78.94-4+82.94)

NO SCALE

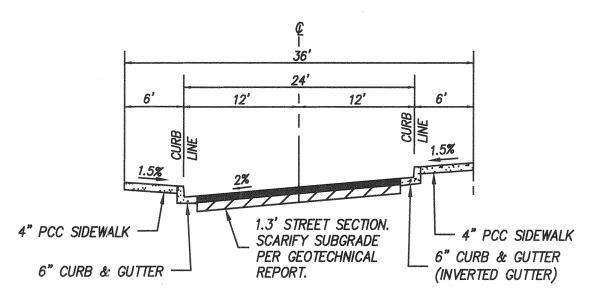


PRIVATE STREET 'D' WITH PARALLEL PARKING (STREET 'D' STA. 1+16.56-1+36.56, 4+67.68-4+87.48)



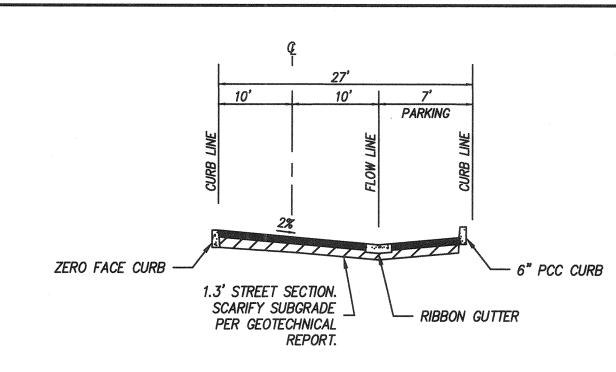
PRIVATE STREETS 'B', 'G'

NO SCALE



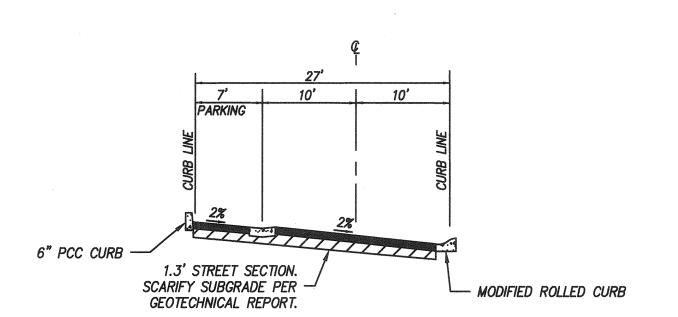
PRIVATE STREET 'E'

NO SCALE



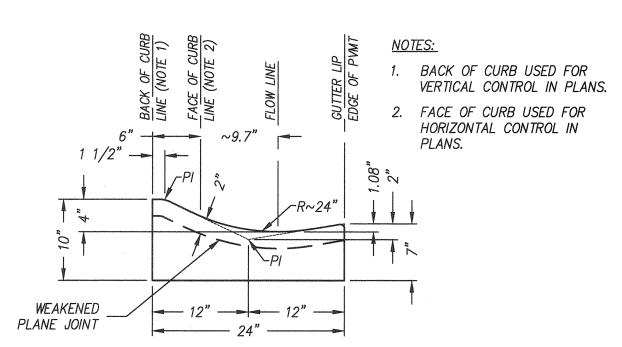
PRIVATE STREET 'C' WITH PARALLEL PARKING (STREET 'C' STA. 1+21.02-1+41.02)

NO SCALE



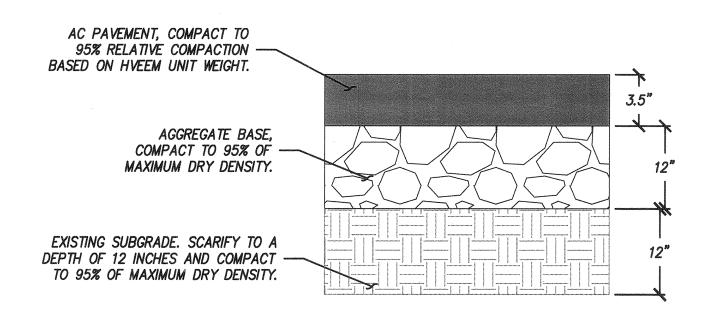
PRIVATE STREET 'F' WITH PARALLEL PARKING (STREET 'F' STA. 1+21.02-1+41.02)

NO SCALE



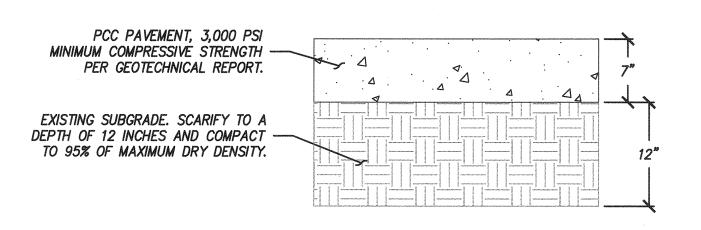
MODIFIED ROLLED CURB

NO SCALE



AC PAVEMENT SECTION

NO SCALE



PCC PAVEMENT SECTION

NO SCALE

TOTAL NUMBER OF SHEETS = 14

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT IMPROVEMENT PLANS FOR: OTAY RANCH VILLAGE TWO - R-17B(b)

16019 - 03W.O. NO. OR-8621

AS BUILT UTILITY NOTE ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND SIGNATURE FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT Printed Name OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION My Registration Expires CONSTRUCTION RECORD

REFERENCES

DWG NO. 14024 (W.O. NO. OR838G),

DWG NO. 14031, MAP NO. 15350,

DWG NO. 16017, DWG NO. 16013,

9968 Hibert Street 2nd Floor, San Diego, CA 92131 Tel 858.751.0633 BENCH MARK
DESCRIPTION: BRASS DISK MKD. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD

R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)

SO SIDE OF GRAVEL RD 225' +- W OF GATE TO A.V.R.

TRACKING STA 15'4- E OF METAL GATE. (PT# 1344 PER

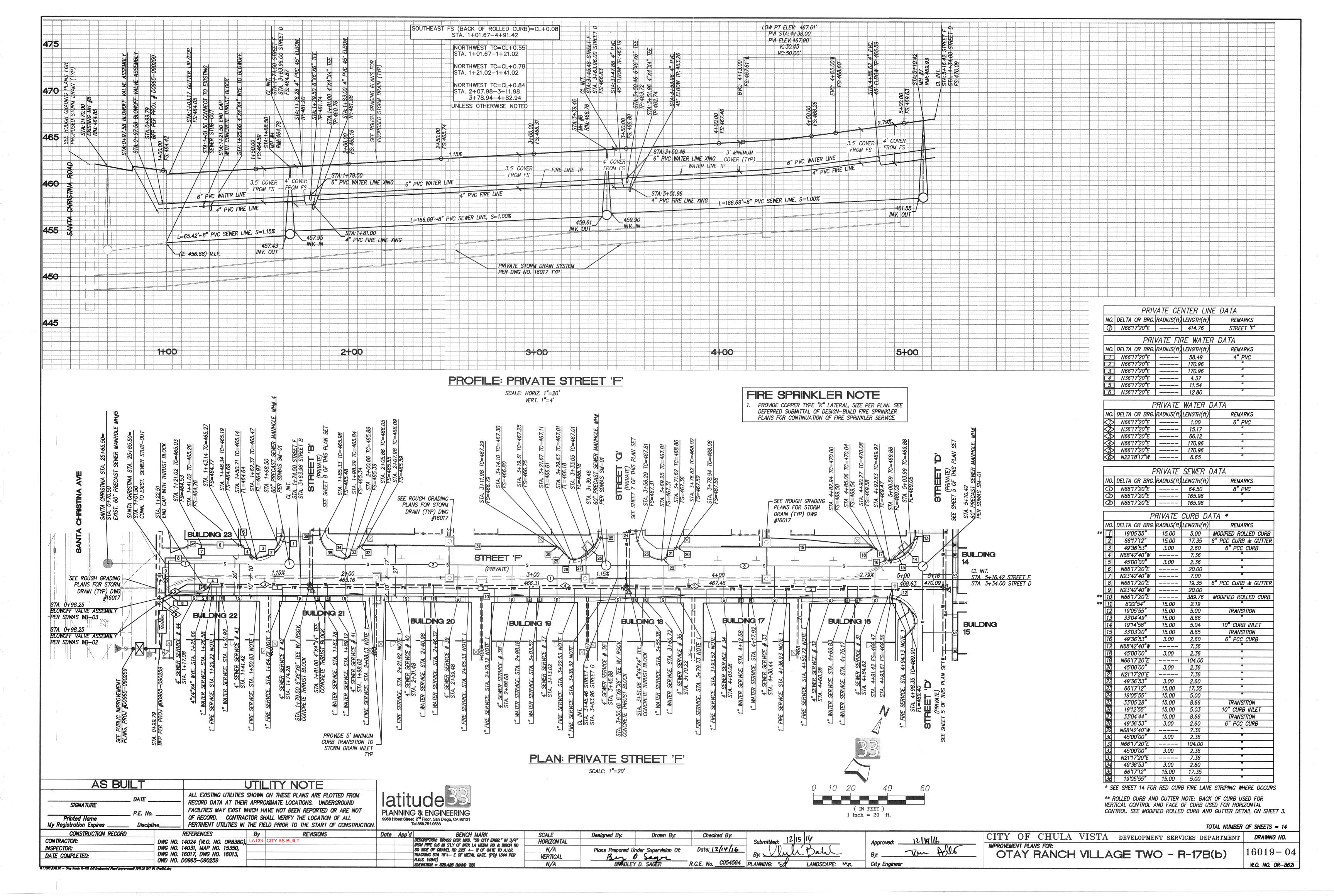
Designed By: Checked By: Drawn By: Plans Prepared Under Supervision Of: Date: 12/14/16 R.C.E. No. C054564

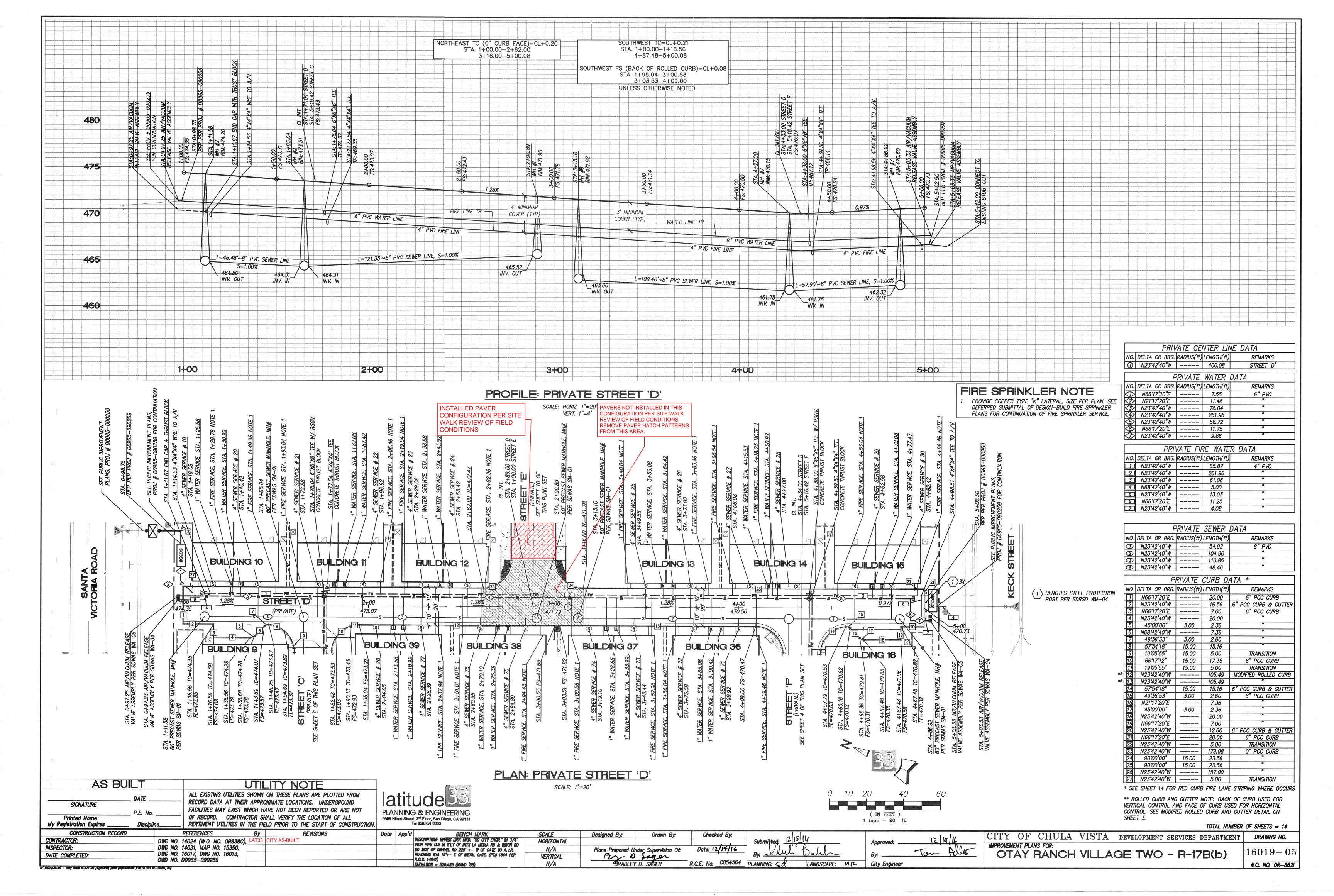
12/19/16 Tom All City Engineer

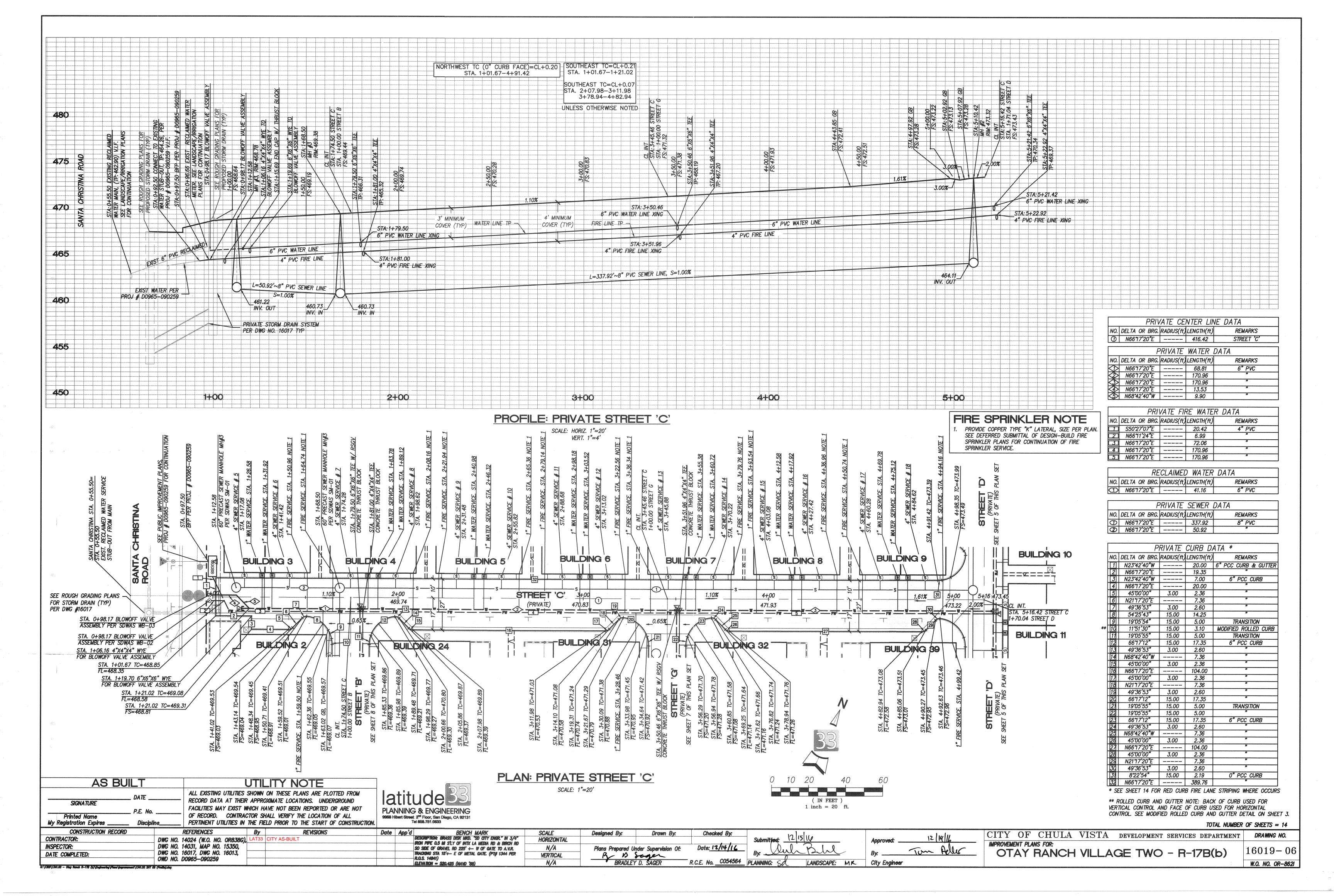
OWD NO. D0965-090259 H:\1300\1341.00 — Otay Ranch R-178 (b)\Engineering\Plane\improvement\1341.00 SHT 03 (Sections and Details).d

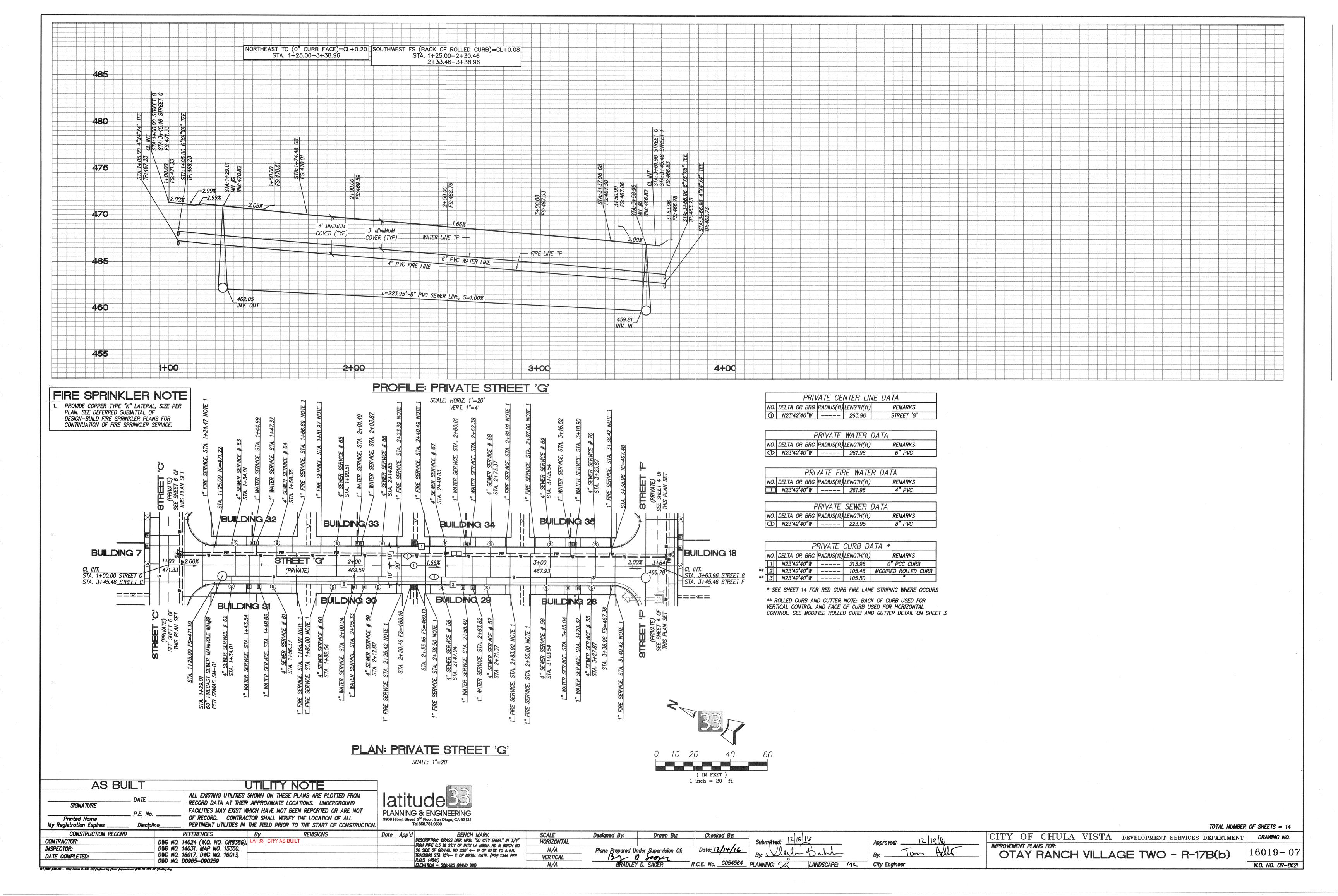
CONTRACTOR:

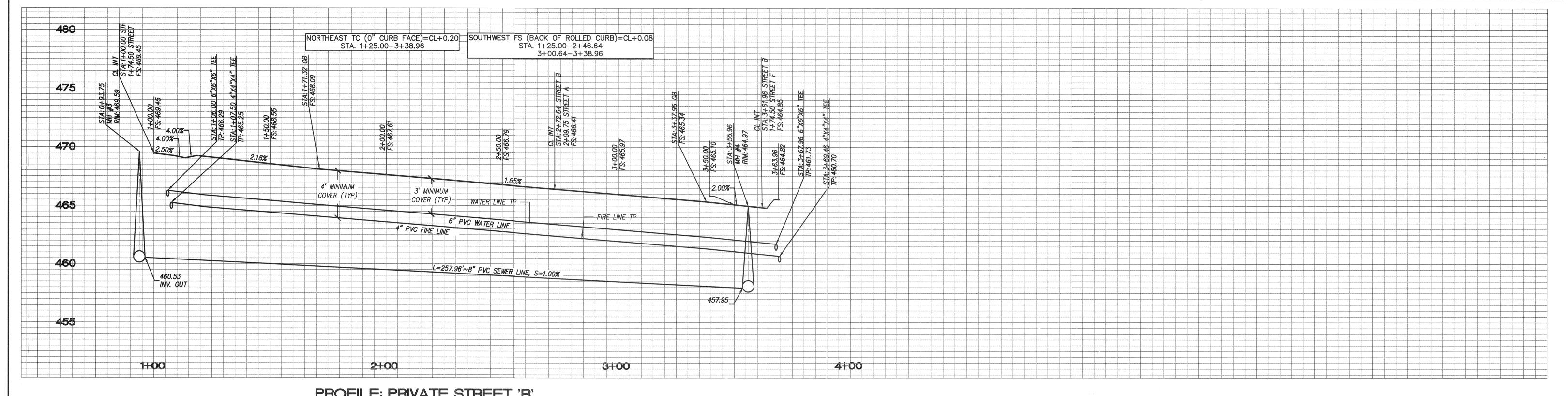
DATE COMPLETED:











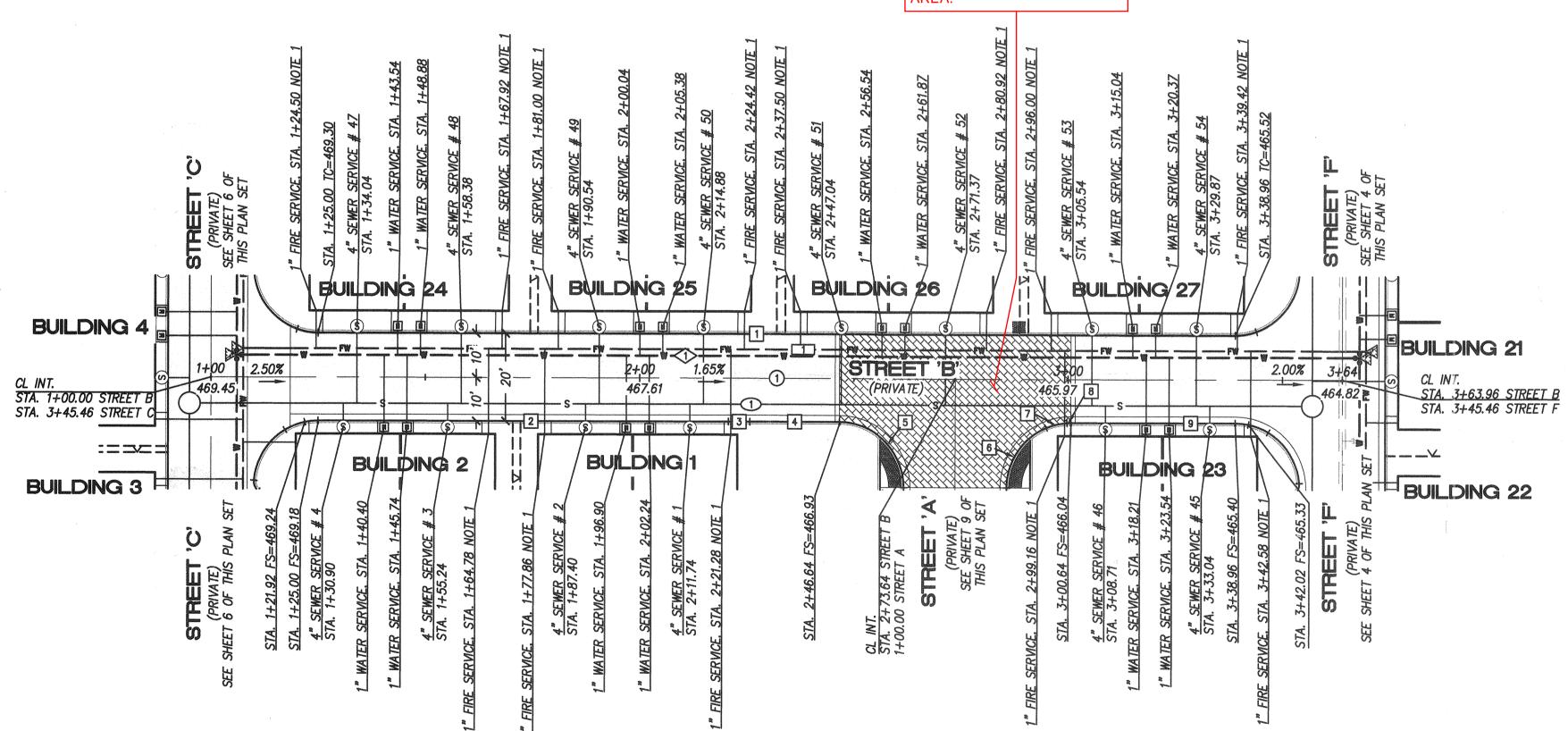
PROFILE: PRIVATE STREET 'B'

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

PAVERS NOT INSTALLED IN THIS CONFIGURATION PER SITE WALK REVIEW OF FIELD CONDITIONS, REMOVE PAVER HATCH PATTERNS FROM THIS

FIRE SPRINKLER NOTE

PROVIDE COPPER TYPE "K" LATERAL, SIZE PER PLAN. SEE DEFERRED SUBMITTAL OF DESIGN—BUILD FIRE SPRINKLER PLANS FOR CONTINUATION OF FIRE SPRINKLER SERVICE.



		PR	VATE	CE	NTER	LINE	E DATA	
NO.	DELTA	OR BRO	. RADIUS	(ft)	LENGTH	(ft)	REMARKS	
①	N23°4	12'40"W		***	263.9	6	STREET 'B']

	etro es compo contine quanto estado con estado en e	AND SHIP COLUMN	F	PRIVATE	WATER	DATA		THE PROPERTY OF THE PROPERTY O	
NO.	DELTA	OR	BRG.	RADIUS(ft)	LENGTH(ft)		REM	ARKS	
\Diamond	N23°4	2'4	O"W		261.96		6"	PVC	

			PRI	VATE I	FIRE	WATE	R DATA	
NO.	DELTA	OR	BRG.	RADIUS(ft) LEI	NGTH(ft)	REN	MARKS
	N23°4	2'4	o"W	AND THE PERSON NAMED IN COLUMN	- 2	261.96	4."	PVC

			<i>-</i>	KIVAIL	SEWER !	DATA		
NO.	DELTA	OR	BRG.	RADIUS(ft)	LENGTH(ft)		REMARKS	
(D)	N23°4	2'40)"W	NAMES CONTRACTOR CONTRACTOR CONTRACTOR	257.96		8" PVC	-

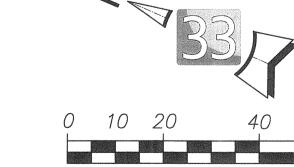
	***************************************	P	RIVATE	CURB D	ATA *
	NO.	DELTA OR BRG.	RADIUS(ft)	LENGTH(ft)	REMARKS
	1	N23°42'40"W	COURSE COURSE COURSE COURSE CANDIDA	213.96	0" PCC CURB
**	2	N23°42'40"W	come alore done come anno	95.74	MODIFIED ROLLED CURB
	3	N23°42'40"W	CONTRACT MANAGEM AND	5.00	TRANSITION
	4	N23°42'40"W	Special weights record werden weights	20.90	6" PCC CURB & GUTTER
	5	90°00'00"	15.00	23.56	59
	6	67°20'50"	15.00	17.63	"
	7	19°05'55"	15.00	5.00	TRANSITION
**	8	<i>3°33'15"</i>	15.00	0.93	MODIFIED ROLLED CURB
**	9	N23°42'40"W	0.00.0 00.000 00.000 00.000 00.000	<i>38.32</i>	

* SEE SHEET 14 FOR RED CURB FIRE LANE STRIPING WHERE OCCURS

** ROLLED CURB AND GUTTER NOTE: BACK OF CURB USED FOR VERTICAL CONTROL AND FACE OF CURB USED FOR HORIZONTAL CONTROL. SEE MODIFIED ROLLED CURB AND GUTTER DETAIL ON SHEET 3.

PLAN:	PRIVATE	STREET 'B'

SCALE: 1"=20'



AS BUILT	UTILITY NOTE
DATE	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLO

DWG NO. 14031, MAP NO. 15350,

DWG NO. 16017, DWG NO. 16013,

DWG NO. 14024 (W.O. NO. OR838G), LAT33 CITY AS-BUILT

RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND SIGNATURE FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL Printed Name PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. My Registration Expires CONSTRUCTION RECORD

PLANNING & ENGINEERING 9968 Hibert Street 2nd Floor, San Diego, CA 92131 Tel 858.751.0633

	0	- 1	\circ	len.	\circ				7		
4											
									interpretation in the contract of the contract		
					(IN	FI	CET)		
				1	in	ch		20	1	ľt.	

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT DRAWING NO. IMPROVEMENT PLANS FOR:
OTAY RANCH VILLAGE TWO - R-17B(b)

16019 - 08W.O. NO. OR-8621

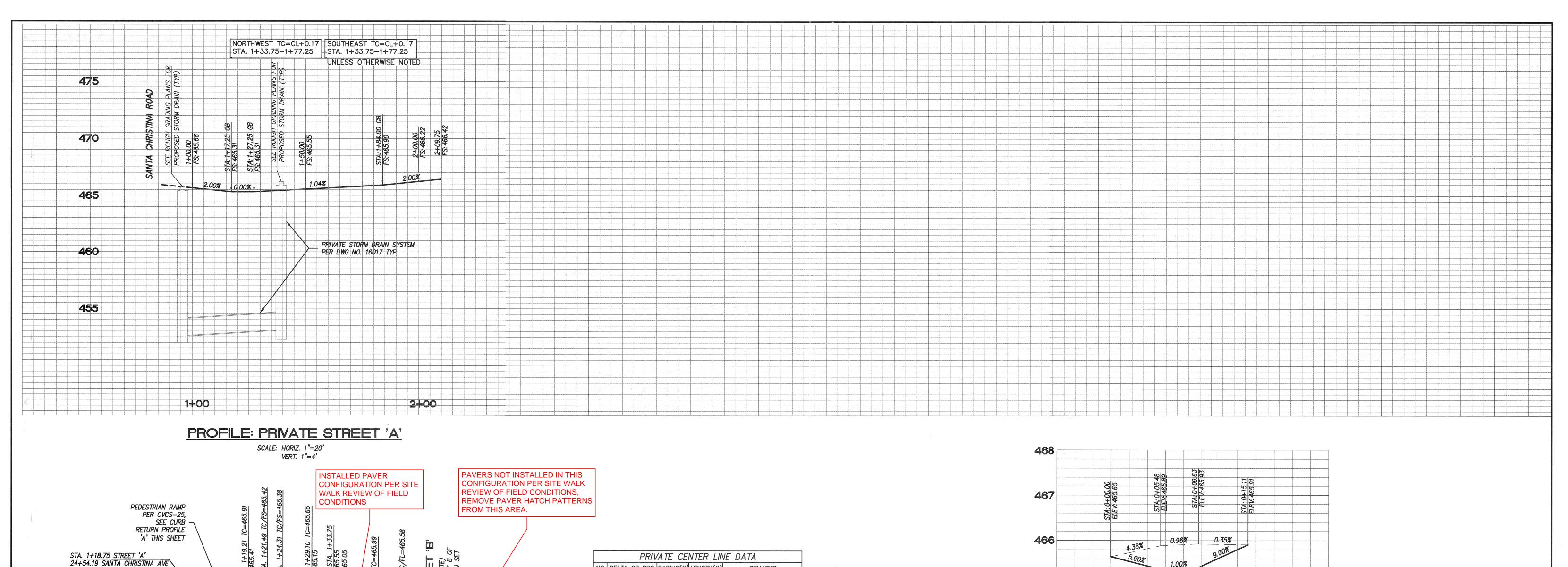
TOTAL NUMBER OF SHEETS = 14

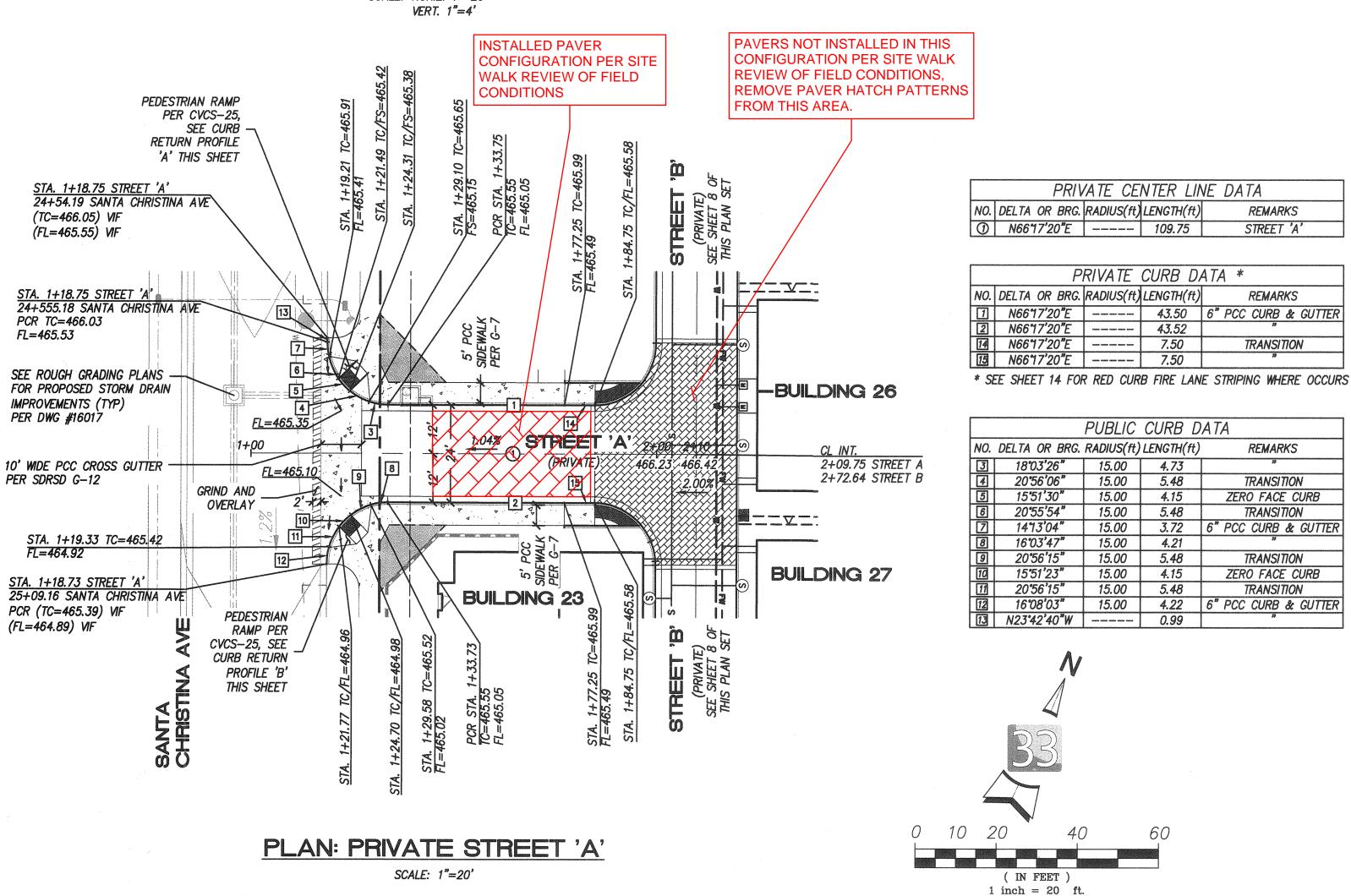
SCALE HORIZONTAL IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SO SIDE OF GRAVEL RD 225' +- W OF GATE TO A.V.R. TRACKING STA 15'+- E OF METAL GATE. (PT# 1344 PER R.O.S. 14841)
ELEVATION = 520,425 (NAVO '88) VERTICAL

12/19/16 City Engineer LANDSCAPE: MR

CONTRACTOR:

DATE COMPLETED:





PLANNING & ENGINEERING

9968 Hibert Street 2nd Floor, San Diego, CA 92131 Tel 858.751,0633

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM

FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT

PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND

OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL

AS BUILT

SIGNATURE

CONSTRUCTION RECORD

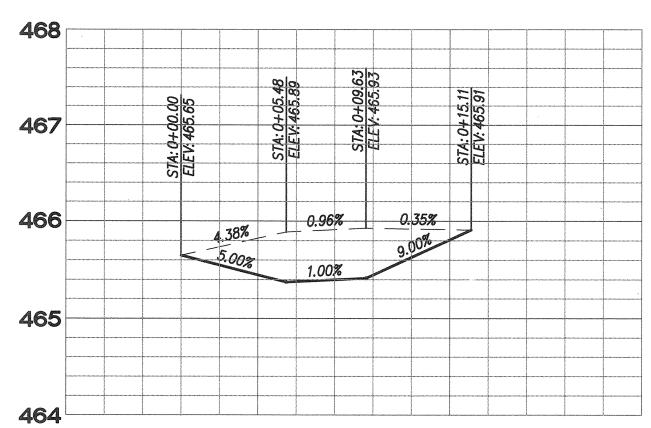
H: \1300\1341.00 — Otay Ranch R-178 (b)\Engineering\Plane\Improvement\1341.00 SHT 09 (Profile).dag

Printed Name My Registration Expires _

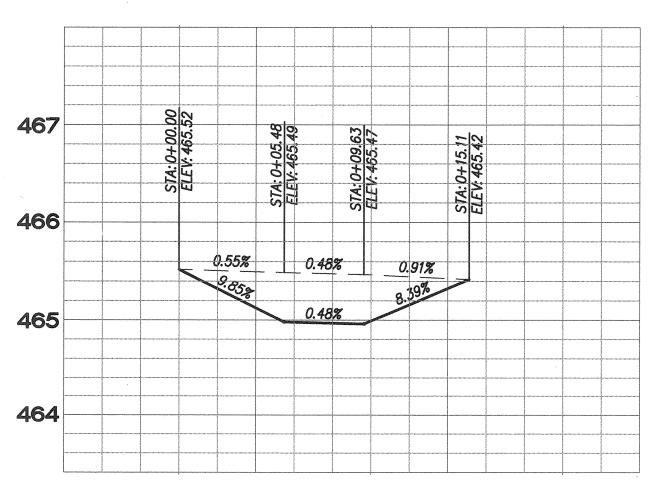
CONTRACTOR:

DATE COMPLETED:

INSPECTOR:



PROFILE: CURB RETURN 'A' SCALE: HORIZ. 1"=5' VERT. 1"=1'



PROFILE: CURB RETURN 'B'

SCALE: HORIZ. 1"=5" VERT. 1"=1"

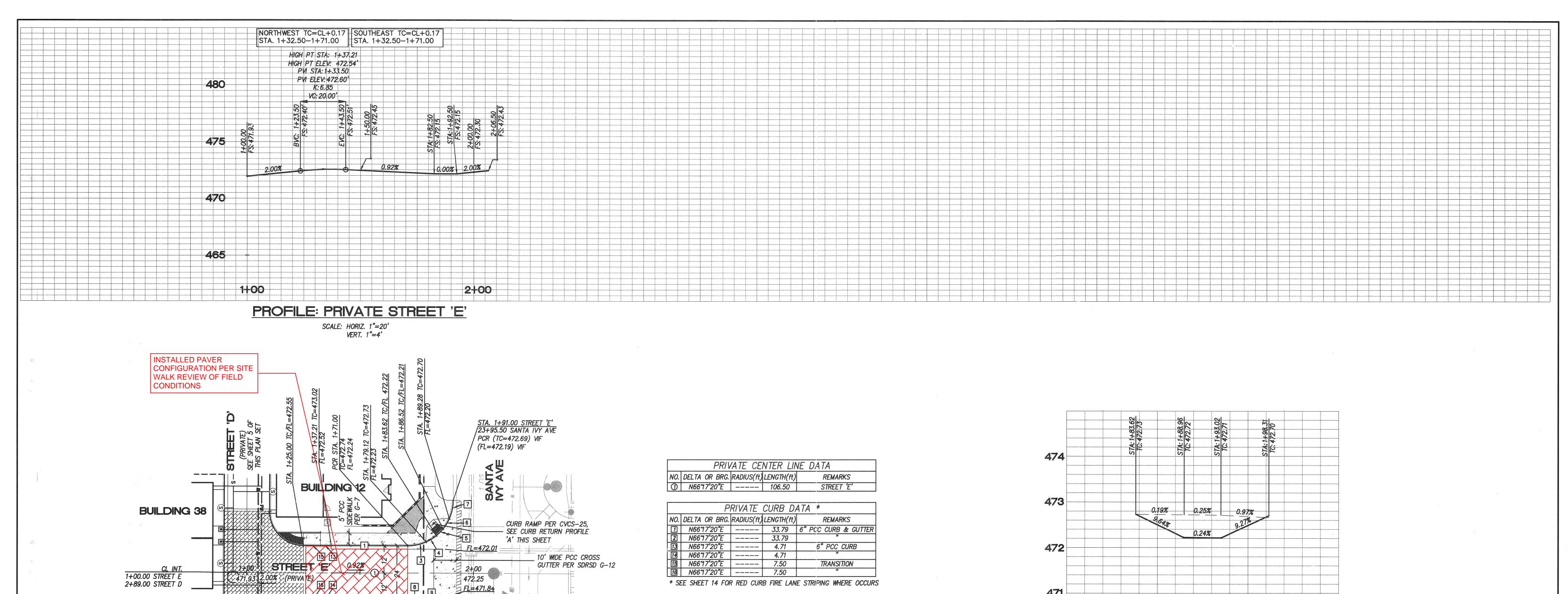
> TOTAL NUMBER OF SHEETS = 14 CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT

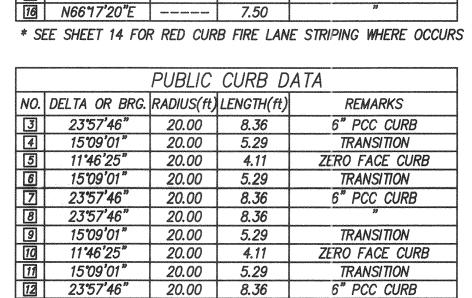
BENCH MARK
DESCRIPTION: BRASS DISK MIGO. "SD CITY ENGR." IN 3/4" Designed By: Drawn By: Checked By: 12/19/4 DWG NO. 14024 (W.O. NO. OR838G), LA DWG NO. 14031, MAP NO. 15350, 3 CITY AS-BUILT HORIZONTAL IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD Date: 12/14/16 Plans Prepared Under Supervision Of:
BULLY D. SAGER Ton Allt SO SIDE OF GRAVEL RD 225' +- W OF GATE TO A.V.R. DWG NO. 16017, DWG NO. 16013, TRACKING STA 15'4— E OF METAL GATE. (PT# 1344 PER R.O.S. 14841) VERTICAL OWD NO. D0965-090259 R.C.E. No. <u>C0545</u>64 LANDSCAPE: M.R. City Engineer

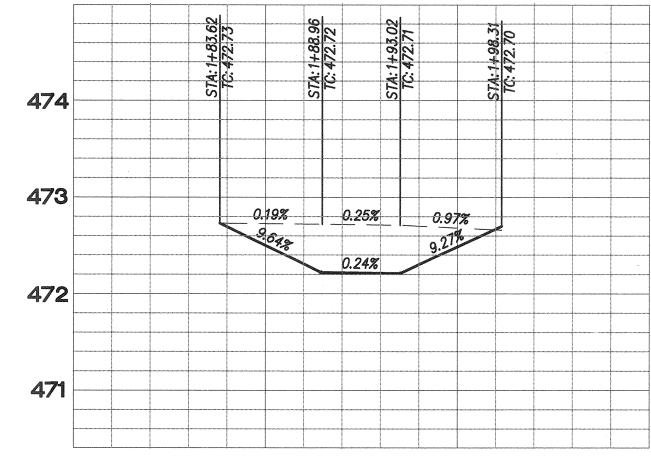
IMPROVEMENT PLANS FOR: OTAY RANCH VILLAGE TWO - R-17B(b)

16019 - 09 W.O. NO. OR-8621

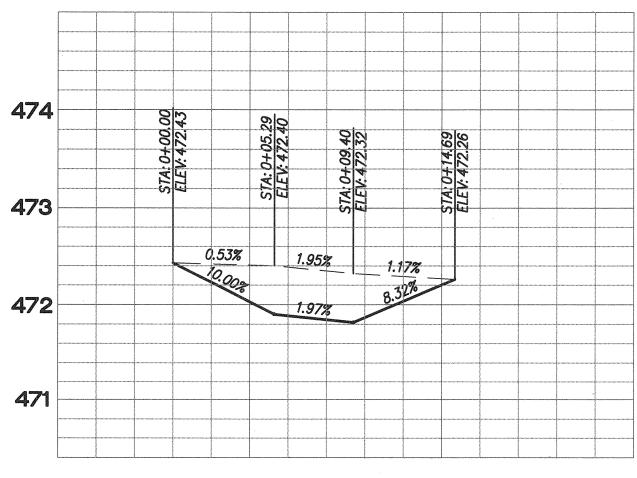
DRAWING NO.







PROFILE: CURB RETURN 'A' SCALE: HORIZ. 1"=5'
VERT. 1"=1'



PROFILE: CURB RETURN 'B' SCALE: HORIZ. 1"=5'
VERT. 1"=1'

AS BUI			JTILITY N	VOTE	
	DATE	ALL EXISTING UTILITIES RECORD DATA AT THEIR			
SIGNATURE	P.E. No	FACILITIES MAY EXIST W	HICH HAVE NOT BE	EN REPORTED OR AF	RE NOT
Printed Name My Registration Expires	Discipline	OF RECORD. CONTRAC			
CONSTRUCTION RECORD		REFERENCES	Ву	REVISIONS	

BUILDING 37

PAVERS NOT INSTALLED IN THIS CONFIGURATION PER SITE WALK REVIEW OF FIELD CONDITIONS, REMOVE PAVER HATCH PATTERNS FROM THIS

AREA.

CURB RAMP PER CVCS-25,
— SEE CURB RETURN

PROFILE 'B' THIS SHEET

0 10 20

(IN FEET) 1 inch = 20 ft.

<u>STA. 1+91.00 STREET 'E'</u> 24+59.50 SANTA IVY AVE

PCR (TC=472.16) VIF (FL=471.66) VIF

PLAN: PRIVATE STREET 'E'

SCALE: 1"=20'

	latitude 33
T ICTION.	PLANNING & ENGINEERING 9968 Hilbert Street 2 nd Floor, San Diego, CA 92131 Tel 858.751.0633

TOTAL NUMBER OF SHEETS = 14 DESCRIPTION: BRASS DISK MICD. "SD CITY ENGR." IN 3/4"

IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SCALE HORIZONTAL CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT Designed By: Drawn By: Checked By: DRAWING NO. 12/19/16 DWG NO. 14024 (W.O. NO. OR838G), LAT33 CITY AS-BUILT DWG NO. 14031, MAP NO. 15350, DWG NO. 16017, DWG NO. 16013, CONTRACTOR: IMPROVEMENT PLANS FOR:
OTAY RANCH VILLAGE TWO - R-17B(b) INSPECTOR: N/A VERTICAL 16019-10 Tun Adler SO SIDE OF GRAVEL RD 225" +- W OF GATE TO A.V.R. TRACKING STA 15'+- E OF METAL GATE. (PT# 1344 PER -R.O.S. 14841)
ELEVATION = 520.425 (NAVD '88) DATE COMPLETED: OWD NO. D0965-090259 R.C.E. No. C054564 PLANNING: City Engineer W.O. NO. OR-8621 LANDSCAPE: MR H: \1300\1341.00 — Otay Ranch R=178 (b)\Engineering\Plane\Improvement\1341.00 SHT 10 (Profile) JS.dag

NO.		AT MAIN	FEET		LINE	ELEV.	LINE IN FEET	LA TERAL
1	BUILDING 1	460.58	1.2	2	460.62	467.5	6.88	2.00%
2	SEE SHEET 8	460.83	1.2	2	460.87	467.9	7.03	2.00%
3	BUILDING 2	461.15	1.2	2	461.19	468.52	7.33	2.00%
5	SEE SHEET 8 BUILDING 3	461.39	1.2	3	461.43 462.48	469.05 469.03	7.62 6.55	2.00%
6	SEE SHEET 6	462.18	1.2	3	462.24	469.29	7.05	2.00%
7	BUILDING 4	461.92	1.2	3	461.98	469.65	7.67	2.00%
8	SEE SHEET 6	462.21	1.2	3	462.27	469.92	7.65	2.00%
9	BUILDING 5	462.54	1.2	3	462.6	470.28	7.68	2.00%
10	SEE SHEET 6 BUILDING 6	462.78	1.2	3	462.84 463.17	470.55 470.91	7.71	2.00%
12	SEE SHEET 6	463.36	1.2	3	463.42	471.18	7.76	2.00%
13	BUILDING 7	463.68	1.2	3	463.74	471.54	7.8	2.00%
14	SEE SHEET 6	463.93	1.2	3	463.99	471.8	7.81	2.00%
15	BUILDING 8	464.26	1.2	3	464.32	472.16	7.84	2.00%
16 17	SEE SHEET 6 BUILDING 9	464.83	1.2 1.2	3	464.56 464.89	472.43 472.87	7.87 7.98	2.00%
18	SEE SHEET 6	465.07	1.2	3	465.13	473.27	8.14	2.00%
19	BUILDING 10	465.98	1.2	14	466.26	474.34	8.08	2.00%
20	SEE SHEET 5	465.74	1.2	14	466.02	474.03	8.01	2.00%
21	BUILDING 11	465.56	1.2	14	465.84	473.62	7.78	2.00%
22	SEE SHEET 5	465.81	1.2	14	466.09	473.31	7.22	2.00%
23 24	BUILDING 12 SEE SHEET 5	466.37	1.2 1.2	14	466.41 466.65	472.9 472.58	6.49 5.93	2.00%
25	BUILDING 13	463.71	1.2	14	463.99	472.38 471.35	7.36	2.00%
26	SEE SHEET 5	463.47	1.2	14	463.75	471.04	7.29	2.00%
27	BUILDING 14	463.15	1.2	14	463.43	470.62	7.19	2.00%
28	SEE SHEET 5	462.99	1.2	14	463.27	470.36	7.09	2.00%
29	BUILDING 15	463.3	1.2	14	463.58	470.57	6.99	2.00%
30 31	SEE SHEET 5 BUILDING 16	463.53	1.2 1.2	14 15	463.81 462.83	470.8 469.28	6.99 6.45	2.00%
32	SEE SHEET 4	462.28	1.2	15	462.58	468.6	6.02	2.00%
<i>33</i>	BUILDING 17	461.98	1.2	15	462.28	467.89	5.61	2.00%
34	SEE SHEET 4	461.71	1.2	15	462.01	467.58	5.57	2.00%
35	BUILDING 18	461.38	1.2	15	461.68	467.2	5.52	2.00%
<i>36 37</i>	SEE SHEET 4 BUILDING 19	461.14	1.2 1.2	15 15	461.44 460.87	466.92 466.54	5.48 5.67	2.00% 2.00%
38	SEE SHEET 4	460.33	1.2	15	460.63	466.26	5.63	2.00%
39	BUILDING 20	460	1.2	15	460.3	465.88	5.58	2.00%
40	SEE SHEET 4	459.75	1.2	15	460.05	465.6	5.55	2.00%
41	BUILDING 21	459.43	1.2	15	459.73	465.23	5.5	2.00%
42	SEE SHEET 4 BUILDING 22	459.18 458.34	1.2	15 15	459.48 458.64	464.95 464.57	5.47 5.93	2.00% 2.00%
44	SEE SHEET 4	458.06	1.2	15	458.36	464.29	5.93	2.00%
45	BUILDING 23	459.37	1.2	2	459.41	465.5	6.09	2.00%
46	SEE SHEET 8	459.61	1.2	2	459.65	465.9	6.25	2.00%
47	BUILDING 24	461.36	1.2	14	461.64	469.1	7.46	2.00%
48	SEE SHEET 8	461.12	1.2	14	461.4	468.57	7.17	2.00%
50 50	BUILDING 25 SEE SHEET 8	460.8	1.2 1.2	14	461.08 460.83	467.97 467.57	6.89 6.74	2.00%
51	BUILDING 26	460.23	1.2	14	460.51	467.04	6.53	2.00%
52	SEE SHEET 8	459.99	1.2	14	460.27	466.64	6.37	2.00%
53	BUILDING 27	459.65	1.2	14	459.93	466.08	6.15	2.00%
54	SEE SHEET 8	459.4	1.2	14	459.68	465.67	5.99	2.00%
<u>55</u>	BUILDING 28	461.28	1.2	2	461.32	467.55	6.23	2.00%
56 57	SEE SHEET 7 BUILDING 29	461.52	1.2 1.2	2	461.56 461.89	467.95 468.48	6.39 6.59	2.00% 2.00%
58	BUILDING 29 SEE SHEET 7	462.09	1.2	2	462.13	468.89	6.76	2.00%
59	BUILDING 30	462.43	1.2	2	462.47	469.45	6.98	2.00%
60	SEE SHEET 7	462.67	1.2	2	462.71	469.86	7.15	2.00%
61	BUILDING 31	463	1.2	2	463.04	470.46	7.42	2.00%
62	SEE SHEET 7	463.22	1.2	2	463.26	470.92	7.66	2.00%
64	BUILDING 32 SEE SHEET 7	463.2	1.2 1.2	14	463.48 463.26	471.04 470.54	7.56 7.28	2.00%
65	BUILDING 33	462.65	1.2	14	462.93	469.94	7.20	2.00%
66	SEE SHEET 7	462.41	1.2	14	462.69	469.54	6.85	2.00%
67	BUILDING 34	462.07	1.2	14	462.35	468.98	6.63	2.00%
68	SEE SHEET 7	461.83	1.2	14	462.11	468.57	6.46	2.00%
69	BUILDING 35	461.5	1.2	14	461.78	468.04	6.26	2.00%
70 71	SEE SHEET 7 BUILDING 36	461.26	1.2 1.2	14	461.54 463.25	467.63 473.1	6.09 9.85	2.00% 2.00%
72	SEE SHEET 5	463.45	1.2	2	463.49	472.78	9.83	2.00%
73	BUILDING 37	463.78	1.2	2	463.82	472.37	8.55	2.00%
74	SEE SHEET 5	464.02	1.2	2	464.06	472.06	8	2.00%
75	BUILDING 38	466.69	1.2	2	466.73	474.24	7.51	2.00%
76	SEE SHEET 5	466.44	1.2	2	466.48	473.93	7.45	2.00%
77 78	BUILDING 39	466.12	1.2	2	466.16 465.92	473.51	7.35 7.28	2.00%
	SEE SHEET 5	465.88	1.2	2	465.92	<i>473.2</i>	7.28	2.00%

AS BUI		UTILITY NOTE					
SIGNATURE DATE		RECORD DATA AT	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT				
Printed Name My Registration Expires	P.E. No	OF RECORD. CO					
CONSTRUCTION RECORD		REFERENCES	Ву	REVISIONS	Da		
CONTRACTOR:	DWG	G NO. 14024 (W.O. NO. OR	386) , LAT33	CITY AS-BUILT			
INSPECTOR:		G NO. 14031, MAP NO. 153					
DATE COMPLETED:		G NO. 16017, DWG NO. 160 D NO. <mark>D0965—09025</mark> 9	13,				

PLAN	VNING	WGESINEERING 2 nd Floor, San Diego, CA 92131 el 858.751.0633	
Date	App'd	BENCH MARK	
		DESCRIPTION: BRASS DISK MIND. "SD CITY ENGR." IN 3/4"	T
		IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SO SIDE OF GRAVEL RD 225' +- W OF GATE TO A.V.R.	r
		TRACKING STA 15'+- E OF METAL GATE. (PT# 1344 PER	F
		R.O.S. 14841) ELEVATION = 520.425 (NAVD '88)	F
		DESCRIPTION - VENTED (INTID 00)	

SCALE HORIZONTAL

N/A VERTICAL

Designed By:

Drawn By:

Plans Prepared Under Supervision Of:

BRADLEY D. SAGER

R

Checked By:	Submitted: 12 15 1V	(V		
Date: 12/14/16	Br. Cul	all		
C.E. No. C054564	PLANNING: S	ANDSCAPE:	Ми	

City Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT DRAWING NO. IMPROVEMENT PLANS FOR:

OTAY RANCH VILLAGE TWO - R-17B(b)

SEWER LATERAL TABLE 16019-11 W.O. NO. OR-8621



CHULA VISTA FIRE DEPARTMENT

FIRE PREVENTION DIVISION

FIRE LANE IDENTIFICATION

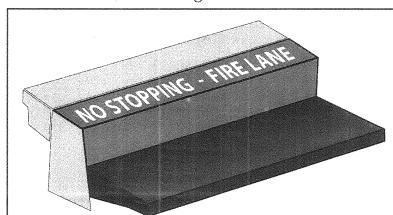
Fire Lanes shall be identified in accordance with one of the details below:

Detail A - No Stopping Sign



- Signs shall be in accordance with Caltrans/FHWA standard [R26F] (See page 2) • The face of the sign shall be parallel to the roadway
- Spaced at maximum intervals of 50ft on center or fraction thereof
- Signs shall be mounted on posts 7ft above grade or on building as approved
- Signs shall be .080 gauge aluminum
- Signs shall have ASTM Type IV High Intensity reflective sheeting
- Signs shall be provided with a protective overlay film

Detail B - Curb Painting - Both sides of fire lane unless otherwise approved



Entire curb shall be painted red [two coats]

• White lettering - "NO STOPPING - FIRE LANE"

- [two coats]
- Lettering height minimum of 4 inches
- Lettering to be on top of designated curbing
- Spaced at maximum intervals of 25ft on center
- Paint shall be suitable for exterior application and fade resistant

Detail C - Striping (with no curb) - Both sides of fire lane unless otherwise approved

NO STOPPING - FIRE LANE

- Minimum width of this red stripe shall be 8 inches [two coats] White lettering - "NO STOPPING - FIRE LANE" [two coats]
 - Lettering height minimum of 6 inches
 - Spaced at maximum intervals of 25ft on center or fraction thereof
 - Paint shall be suitable for exterior application and fade resistant

CHULA VISTA FIRE DEPARTMENT • Fire Prevention Division • 276 Fourth Avenue, Building C, Suite B-143 • Chula Vista, CA 91910 (619) 691-5029 • fax (619) 691-5204 • www.chulavistaca.gov/goto/FirePrevention



CHULA VISTA FIRE DEPARTMENT

FIRE PREVENTION DIVISION

Thrust Block Area Calculations

4-INCH PIPE

1. Min. Soil Bearing Capacity (PSF) = 1500 2. Min. Working Pressure (PSI) = 200

THRUST FROM NFPA 24 TABLE A-8-6.2 A BEND FOR:

DEAD END = 1.810 LB @ 100 PSI FOR 200 PSI = 200 / 100 * 1,810 = 3,620 LB Ab = T/Sb = 3,620/1,500 = 2.41 S.F.

Ab*S.F. = 2.41 X 1.5 = 3.62 S.F. USE 2' WIDE X 2' HIGH THRUST BLOCK

90° BEND = 2,559 LB @ 100 PSI FOR 200 PSI = 200 / 100 * 2,559 = 5,118 LB Ab = T/Sb = 5,118/1,500 = 3.41 S.F.

Ab*S.F. = 3.41 X 1.5 = 5.12 S.F. USE 2.5' WIDE X 2.5' HIGH THRUST BLOCK

FOR 200 PSI = 200 / 100 * 1,385 = 2,770 LB Ab = T/Sb = 2,770/1,500 = 1.85 S.F.

Ab*S.F. = 1.85 X 1.5 = 2.77 S.F. USE 2' WIDE X 1.5' HIGH THRUST BLOCK

22 1/2° BEND = 706 LB @ 100 PSI FOR 200 PSI = 200 / 100 * 706 = 1,412 LB Ab = T/Sb = 1,412/1,500 = 0.94 S.F.

Ab*S.F. = 0.94 X 1.5 = 1.41 S.F. USE 1.5' WIDE X 1' HIGH THRUST BLOCK

FOR 200 PSI = 200 / 100 * 355 = 710 LB Ab = T/Sb = 710/1,500 = 0.47 S.F.

Ab*S.F. = 0.47 X 1.5 = 0.71 S.F. USE 1' WIDE X 1' HIGH THRUST BLOCK

DWG NO. 14024 (W.O. NO. OR838G), LAT33 CITY AS-BUILT

DWG NO. 14031, MAP NO. 15350,

DWG NO. 16017. DWG NO. 16013.

AS BUILT UTILITY NOTE ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL 9968 Hibert Street 2nd Floor, San Diego, CA 92131 Tel 858.751.0633 My Registration Expires ____ PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REVISIONS

PLANNING & ENGINEERING

Date | App'd |



CHULA VISTA FIRE DEPARTMENT

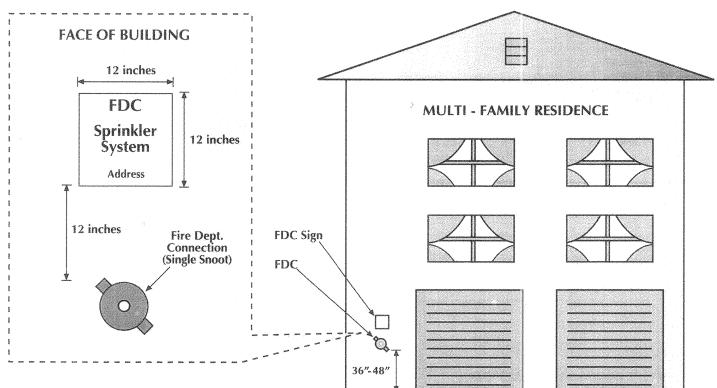
FIRE PREVENTION DIVISION

Multi-Family Sprinkler Connection (FDC*) Detail

*FDCs located on the building must have prior approval from the Fire Marshal

Detail A - Sign Only

Detail B - Sign and Building



Sign Specifications

- 1. Measurements MUST be exact and will be subject to a field inspection.
- 2. Sign must be .080 gauge aluminum.
- 3. Sign shall have ASTM TYPE IV high intensity reflective sheeting
- 4. Protective overlay film on sign [P.O.F]. 5. Signage letter height:
- FDC = 3 inches tall and Address = 1 1/4 inches tall
- 6. White background with black lettering
- 7. Sign must be permanently attached to the building (12 inches) above the FDC.

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CHULA VISTA FIRE DEPARTMENT

FIRE PREVENTION DIVISION

Thrust Block Area Calculations

6-INCH PIPE

1. Min. Soil Bearing Capacity (PSF) = 1500 2. Min. Working Pressure (PSI) = 200

THRUST FROM NFPA 24 TABLE A-8-6.2 A BEND FOR:

DEAD END =	3,739	LB	@ 100 PSI				
FOR 200 PSI =	200 / 100	*	3,739	-	7,478	LB	
Ab =	T/Sb	****	7,478 / 1,500	*****	4.99	S.F.	
Ab*S.F. =	4.99	Χ	1.5	===	7.48	S.F.	USE 3' WIDE X 2.5' HIGH THRUST BLOCK

90° BEND = 5,288 LB @ 100 PSI FOR 200 PSI = 200 / 100 * 5,288 Ab = T/Sb = 10,576/1,500 = 7.05 S.F.Ab*S.F. = 7.05 X 1.5 = 10.58 S.F. **USE 4' WIDE X 3' HIGH THRUST BLOCK**

FOR 200 PSI = 200 / 100 * 2,862 = 5,724 LB Ab = T/Sb = 5,724/1,500 = 3.82 S.F.Ab*S.F. = 3.82 X 1.5 = 5.72 S.F. USE 2.5' WIDE X 2.5' HIGH THRUST BLOCK

22 1/2° BEND = 1,459 LB @ 100 PSI FOR 200 PSI = 200 / 100 * 1,459 = 2,918 LB Ab = T/Sb = 2,918/1,500 = 1.95 S.F.Ab*S.F. = 1.95 X 1.5 = 2.92 S.F. USE 2' WIDE X 1.5' HIGH THRUST BLOCK

11 1/4° BEND = 733 LB @ 100 PSI FOR 150 PSI = 200 / 100 * 733 = 1,466 LB Ab = T/Sb = 1,466/1,500 = 0.98 S.F.Ab*S.F. = 0.98 X 1.5 = 1.47 S.F. USE 1' WIDE X 1.5' HIGH THRUST BLOCK

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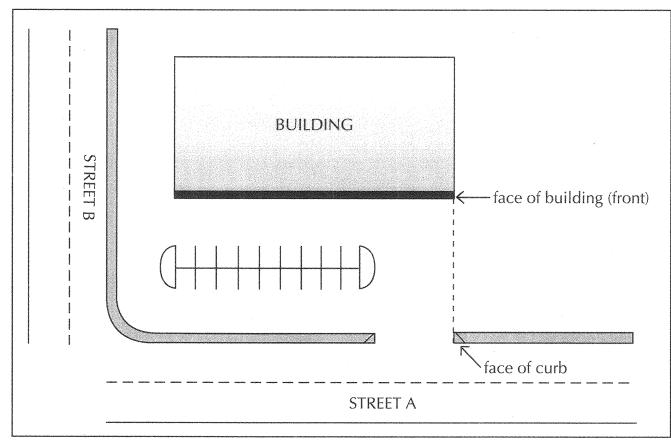
CHULA VISTA FIRE DEPARTMENT

FIRE PREVENTION DIVISION

PREMISE IDENTIFICATION

Building address numbers shall be plainly visible and legible from the street or main access to the building. Numbers shall contrast with their background and comply with the following:

Distance from Building to Face of Curb	Minimum Number Height	Minimum Stroke
0 - 50 feet	6 inches	1 inch
51 - 150 feet	10 inches	1.5 inches
> 151 feet	16 inches	2 inches



Specifications:

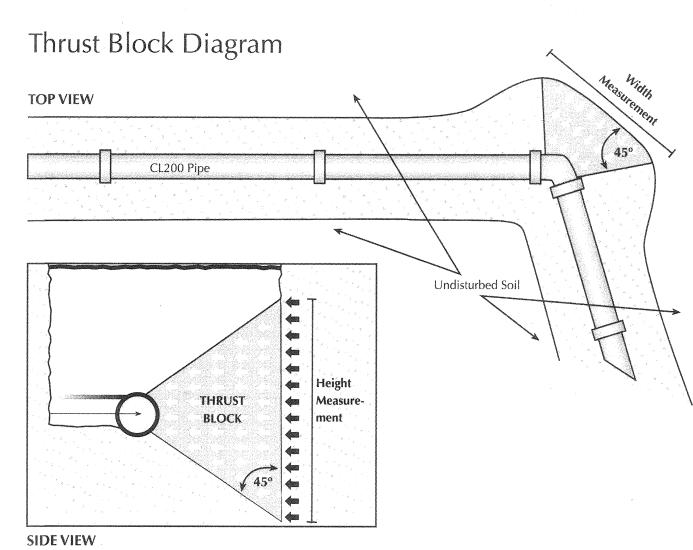
- This policy will also apply to monument signs.
- Buildings maybe required to have their address posted in multiple locations.

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CHULA VISTA FIRE DEPARTMENT

FIRE PREVENTION DIVISION



Notes

- 1. Underground fire service utilities shall be AWWA C-900 Class 200 pipe
- 2. Pipe joints shall be exposed at the time of hydrostatic test
- 3. Hydrostatic test shall be 200 psi for 2 hours 4. Tracer wire and tape are required and shall be in accordance with AWWA
- 5. Thrust blocks shall be Class 560-C-32.50 concrete, unless specified otherwise
- 6. For thrust block dimensions, see thrust block calculation detail.
- 7. Pipe shall be buried a minimum of 3 feet 8. Pipe shall be sleeved per NFPA for penetrating foundations
- 9. Provide an underground pipe certification at the time of the underground final

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TOTAL NUMBER OF SHEETS = 14

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT IMPROVEMENT PLANS FOR: 16019 - 12OTAY RANCH VILLAGE TWO - R-17B(b)

OWD NO. D0965-090259 Ht \1300\1341.00 - Olay Ranch R-178 (b)\Engheering\Plane\Improvement\1341.00 SHT 12 (CHD).dun

SIGNATURE

CONSTRUCTION RECORD

Printed Name

CONTRACTOR:

DATE COMPLETED:

INSPECTOR:

BENCH MARK
DESCRIPTION: BRASS DISK MIKO. "SD CITY ENGR." IN 3/4" IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD SO SIDE OF GRAVEL RD 225' +- W OF GATE TO A.V.R. TRACKING STA 15'+- E OF METAL GATE. (PT# 1344 PER

Designed By: Plans Prepared Under Supervision Of:

HORIZONTAL

VERTICAL

Checked By:

City Engineer

Tom Adler

FIRE SERVICE DETAILS AND NOTES

W.O. NO. OR-8621



CHULA VISTA FIRE DEPARTMENT

FIRE PREVENTION DIVISION

STANDARD OPERATIONAL GUIDELINES

	Origin Date: 07/01/07	Revision Date:	
Section: 3104.00 - FPD - Plan Checks	Subject: Guidelines For Underground Fire Service Utilities	Page(s): 4	

These codes and standards shall provide the minimum requirements for the design installation, testing, and inspection of underground fire service utility systems in the City of Chula Vista:

- City of Chula Vista Fire Prevention Standard Operating Guidelines
- California Fire Code 2007 Edition
- California Building Code 2007 Edition
- NFPA 13 Current Edition
- NFPA 14 Current Edition
- NFPA 24 Current Edition • Standard Drawings and Specifications and approved materials list of the appropriate Water District having
- jurisdiction for public systems when applicable. American Water Works Association

SYSTEM DESIGN, PLANS, PERMITS, CALCULATIONS, AND MATERIAL SUBMITTALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

- Complete plans for underground components shall be submitted for approval well in advance of installation. Approval shall be obtained from the Chula Vista Fire Prevention Division prior to any installation. Underground fire service utility plan reviews can take up to 20 working days. Submit a minimum of three sets of drawings for review, additional sets may be requested upon review. Upon approval, the Fire Prevention Division retains a minimum of one set and an electronic copy. The contractor should provide additional sets as needed for approval.
- To receive an expedited review of 10 working days by the CVFD, an additional fee will be required per the master fee schedule.
- The Chula Vista Fire Department will only accept computer-generated plans for underground fire service utilities.
- The contractor shall provide an electronic copy of the plans and calculations for laserfiche importing in the Multipage tif group 4 format at the time of final plan approval with a minimum resolution of 400 dpi. Changes in the field will require as-builts in an electronic copy prior to the building final. Note: when creating the CD-plans, calculations, and specification sheets shall all be part of a "single" electronic file.
- For all fees associated with the review and/or inspection of fire and life safety systems please see OPS # 3100.01. This fee schedule can be accessed through the following link:

http://www.chulavistaca.gov/City_Services/Public_Safety/Fire_Department/Safety/prevention.asp

• If a 2nd plan resubmittal and/or if a re-inspection is required, a fee shall be charged to cover expenses. Please see the current fee schedule for Fire Safety Engineering fees.

- Plans shall indicate all necessary engineering features, including all hydraulic reference nodes, thrust block sizes, pipe lengths and pipe diameters as required by the above named codes and standards. Complete, accurate legends for all symbols and abbreviations shall be provided on plans.
- The associated building permit project-tracking number (example: B07-1234).
- Complete listings and manufacturers technical data sheets for all system materials shall be included with all underground system submittals. All system materials shall be U.L./F.M. listed for fire service and approved by the Fire Prevention Division prior to installation.
- The California Contractors License number shall be provided with each submittal and/or stamped and signed by a licensed professional engineer.
- City of Chula Vista Business License/Fire and Life Safety Contractor License: Installing contractors will have both a City Business License and a Chula Vista Fire Department's Fire and Life Safety Contractor License.
- A hydraulic water flow analysis shall accompany the plans. This analysis shall show the actual flow and pressure for all hydrants and riser stubs. The Hazen Williams formula shall be used in the determination of these flows and pressures. The analysis shall show that the required fire flow is available at the hydrants and that simultaneously the sprinkler demand is available at the most demanding sprinkler riser.
- The system shall be designed and sized such that the maximum velocity in the pipe shall be 10fps at fire demand or sprinkler demand, which ever is greater.
- Calculations shall extend to the point at which the water supply data was determined.
- Water supply data is required to accompany an underground submittal. An official water flow letter can be obtained from the respective water authority. The water flow requirements shall be based upon the currently adopted California Fire Code. The date of the water flow test shall be no older than six months from the time of the plan submittal. No reductions in fire flow will be granted for buildings protected throughout by an approved automatic fire sprinkler system.
- All thrust blocks on private fire hydrant lines and fire sprinkler laterals shall be calculated and constructed in accordance with NFPA 24. Calculations shall be submitted and the resulting dimensions of thrust blocks shall be shown on the plans. A geotechnical report shall be provided to substantiate the soils claim (See Chula Vista Fire Department details for both example calculations and diagrams).
- Control valves must be provided in each source of water supply, such as tanks and pumps. A sufficient number of sectional valves must be provided so that not more than a combined total of five hydrants and sprinkler systems, or not more than three sprinkler systems must be out of service due to a single break. Sectional valves may be keyoperated type.
- Provide class 200 pipe for all underground fire service utilities.
- Special design considerations may also be required with excessive high static pressures or lines in which fire pumps are installed. Chula Vista Fire department will require a water hammer study by a licensed professional engineer to determine if surge suppression will be required.
- Any piping not shown on this approved plan is not a part of this approval. Any additional piping that is to be installed will require a separate plan submittal requiring the approval from the Chula Vista Fire Prevention Division.

• The City of Chula Vista Fire Prevention Division will require the following inspections and tests as a minimum:

CVFD_Guidelines for Underground Fire Services Utilities

- Thrust block pre-pour, trench and backfill inspection. Components and wrap inspection
- Tracer wire and continuity test
- Underground hydrostatic test.
- Underground flush.
- Underground final
- No joints shall be installed under the building.
- Minimum fire hydrant size required (6" x 4" x 2 1/2" x 2 1/2").
- The civil engineer who designed the water system hereby certifies that this water system is in accordance with the requirements as prescribed by the Chula Vista Fire Prevention Division, the CFC and NFPA 24. This certificate shall be accomplished with a wet stamp and signature on the submitted plans.
- Breakaway spools or breakaway bolts are required. See the water agency standard details.
- Fire Department Connections (FDC's) shall not be located on any backflow device
- Fire Department Connections (FDC's) shall not be located on buildings unless approved by the Fire Marshal.
- Fire service laterals serving sprinkler systems shall have their own Post Indicating Valve (PIV). This PIV is in addition to and separate from valves on any backflow device.
- Post Indicating Valves shall be physically secured to an underground concrete anchor block via restraining rods, approved mechanical restraints, or restrained back to the next fittings.
- Fire department connections shall be visible, accessible, and installed at least 40 ft. away and separate from the building in approved locations within 50 foot of a fire hydrant (6" x 4" x 2 1/2" x 2 1/2").

• The Fire Prevention Division shall approve the location of the post indicator valve and the fire department connection.

- Additional check valves are required on private systems. The check valve shall be installed on the supply piping between the post indicator valve and the fire department connection. This is to isolate the sprinkler underground line from any hydrant system.
- All post indicator valves shall be installed with a supervisory switch, which sounds a supervisory alarm at a U.L. listed central receiving station (central station monitoring for certified system and central station remote service for non-certified monitoring systems).
- All post indicator valves shall be provided with a breakaway security lock. A set of keys shall be kept in the Knox Vault. The post indicator valve shall extend 36" to 44" above finished grade.
- Post indicator valves, and fire department connections shall be painted red (Rust-oleum safety red #2163 or equivalent).
- Fire Department Connections and Post Indicating Valves shall have a sign to indicate what buildings they serve. For a detail of this requirement please see the following link:

http://www.chulavistaca.gov/City_Services/Public_Safety/Fire_Department/PDFs/prevention/SignDetail1.pdf

- Fire sprinkler system underground piping with on-site fire hydrants shall be designed so that on-site fire hydrants will not be shut off when the sprinkler system is shut off from the post indicator valve.
- Fire hydrants shall be arranged so that when the Fire Department Connection is pressurized the on-site hydrants are not pressurized.
- The Fire Prevention Division shall require, from the installing contractor, a completed "Contractors Material & Test Certificate for Underground Piping" at the time of underground final inspection. Underground system piping will not pass the final inspection until the Fire Prevention Division receives this completed certificate.
- Blue reflective markers shall be installed to identify location of fire hydrants. These markers shall be visible from both directions of vehicle travel. On undivided roads, markers will be placed one foot from centerline in the direction of the fire appliance.
- On site fire hydrants, post indicator valves, and fire department connections located less than three feet behind the inside face of a curb or when no curb is provided, shall then be protected by guard posts set in concrete. For a detail of this requirement please see the following link:

http://www.chulavistaca.gov/City_Services/Public_Safety/Fire_Department/PDFs/prevention/Bollard.pdf

- Each sprinklered building will require its own separate post indicator valve and fire department connections.
- Fire department connections shall be equipped with listed plugs or caps. All protective caps shall be of breakable cast iron. Plastic caps are not permitted. The use of brass plugs is an acceptable alternative although not recommended due to their vulnerability to theft.
- Private fire service lines when supplying three (3) or more fire hydrants are required to be provided with two (2) points of connection with the public main. Distribution must be looped to provide at least 50 percent of the required fire flow in case of a single break. Dead end mains must be avoided.
- Private fire service lines shall be no less than eight (8) inches in diameter when serving fire hydrants and automatic fire sprinkler systems.
- Underground lateral supplies for sprinkler systems shall be a minimum of 6 inches for commercial properties and a minimum of 4 inches for residential properties (1 inch is the minimum required for dwelling properties). Tracer wire and locate tape shall also be provided for all fire sprinkler system laterals.
- Fire hydrant control valves shall be provided on the lateral in a road box at ten (10) feet from the fire hydrant. See the water agency standard details.
- City of Chula Vista Fire Department job card shall be kept on the project site at all times.
- Working plans shall be submitted for approval to the authority having jurisdiction before any equipment is installed, improved, or demolished.

AS BUILT UTILITY NOTE ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND SIGNATURE FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL Printed Name PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. My Registration Expires CONSTRUCTION RECORD

DWG NO. 14031, MAP NO. 15350.

DWG NO. 16017. DWG NO. 16013.

OWD NO. D0965-090259

DWG NO. 14024 (W.O. NO. OR838G), LAT33 CITY AS-BUILT

PLANNING & ENGINEERING 9968 Hibert Street 2nd Floor, San Diego, CA 92131 Tel 858.751.0633

R.O.S. 14841)

BENCH MARK

VERTICAL

DESCRIPTION: BRASS DISK MICD. "SD CITY ENGR." IN 3/4

SO SIDE OF GRAVEL RD 225' +- W OF GATE TO A.V.R.

TRACKING STA 15'+- E OF METAL GATE. (PT/ 1344 PER

IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD

Designed By: Checked By: HORIZONTAL

Ton Adle City Engineer

CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT IMPROVEMENT PLANS FOR: OTAY RANCH VILLAGE TWO - R-17B(b) FIRE SERVICE DETAILS AND NOTES

16019 - 13

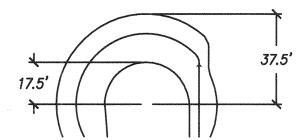
W.O. NO. OR-8621

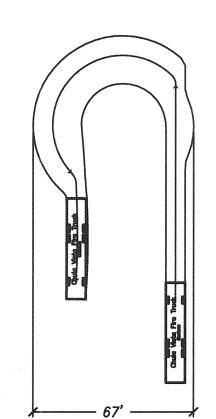
TOTAL NUMBER OF SHEETS = 14

:\1300\1341.00 — Otay Ranch R=178 (b)\Engineering\Piane\Improvement\1341.00 SHT 13 (CMD).dx

CONTRACTOR:

DATE COMPLETED:





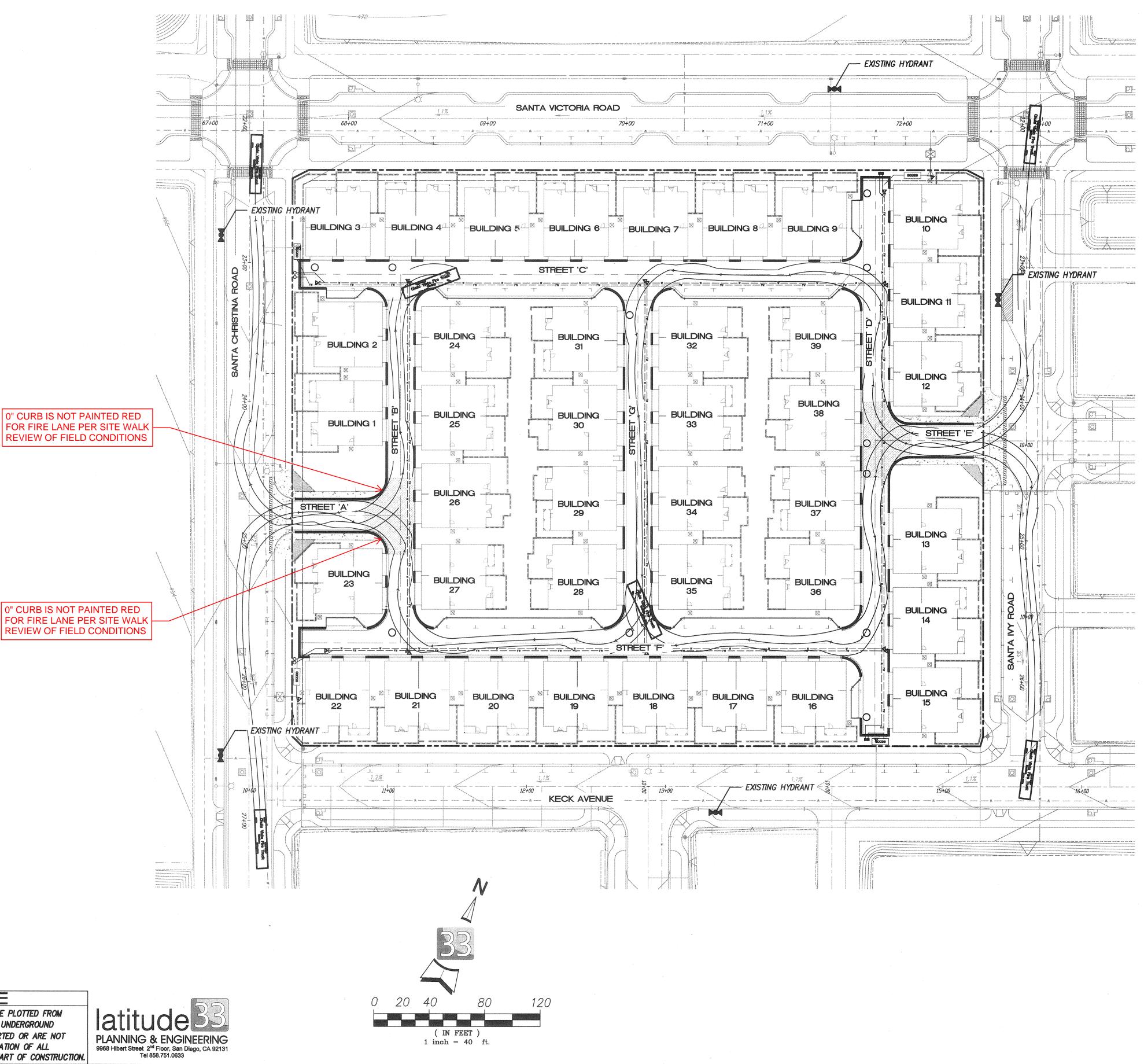
FIRE TRUCK PER CITY OF CHULA VISTA FIRE DEPARTMENT STANDARD OPERATIONAL GUIDELINES

SYSTEM DESIGN, PLANS, PERMITS, CALCULATIONS AND MATERIAL SUBMITTALS SHALL BE IN ACCORDANCE WITH THE CHULA VISTA FIRE DEPARTMENT "STANDARD OPERATIONAL GUIDELINES"

FIRE DEPARTMENT NOTES:

- 1. INDICATE ILLUMINATED DIRECTORY ARE REQUIRED AT EACH ENTRANCE.
- 2. FIRE LANE SIGNAGE SHALL BE INSTALLED PER CITY OF CHULA VISTA FIRE DEPARTMENT STANDARDS.
- 3. THE ACCESS ROAD SHALL BE DESIGNED FOR AASHTO H-20 VEHICLE LOADING.
- EACH BUILDING SHALL BE PROVIDED WITH A KNOX BOX AT THE FIRE CONTROL ROOM, WHICH SHALL BE NORMALLY LOCKED.
- 5. ALL BUILDINGS SHALL HAVE ADDRESSES LABELED IN ACCORDANCE WITH THE CITY OF CHULA VISTA FIRE
- DEPARTMENT GUIDELINES. 6. ALL BUILDINGS SHALL BE PROTECTED BY AN
- AUTOMATIC FIRE ALARM AND SPRINKLER SYSTEM. 7. EVERY BUILDING WILL BE PROVIDED WITH A SURFACE MOUNTED FDC IN ACCORDANCE WITH CVFD DETAIL. PIV NOT REQUIRED FOR MULTI-FAMILY PROJECTS.
- 8. THE CVFD REQUIRES A MINIMUM 1" SERVICE SIZE FOR ALL NFPA13D FIRE SPRINKLER SYSTEMS. FOR SUBMITTAL OF FIRE SPRINKLER PLANS REVIEW, DELIVER TO 276 FOURTH AVE BUILDING C B-143, CHULA VISTA CA 91911.

LEGEND: PROJECT BOUNDARY FIRE BACKFLOW PREVENTER PVC WATER MAIN ---- W ---- ---FIRE HYDRANT RED "NO PARKING" PCC CURB



Checked By:

SCALE

IRON PIPE 0.5 MI S'LY OF INTX LA MEDIA RD & BIRCH RD

TRACKING STA 15'+- E OF METAL GATE. (PT# 1344 PER

SO SIDE OF GRAVEL RD 225' +- W OF GATE TO A.V.R.

ELEVATION = 520.425 (NAVD '88

HORIZONTAL

VERTICAL

Designed By:

Plans Prepared Under Supervision Of:

AS BUILT UTILITY NOTE ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND SIGNATURE FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT Printed Name OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL My Registration Expires ____ PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

DWG NO. 14031, MAP NO. 15350,

DWG NO. 16017, DWG NO. 16013,

OWD NO. D0965-090259

DWG NO. 14024 (W.O. NO. OR838G), LAT33 CITY AS-BUILT

By: Tom Adler LANDSCAPE: MR City Engineer

TOTAL NUMBER OF SHEETS = 14 CITY OF CHULA VISTA DEVELOPMENT SERVICES DEPARTMENT DRAWING NO. 16019 - 14OTAY RANCH VILLAGE TWO - R-17B(b)

W.O. NO. OR-8621

FIRE SERVICE DETAILS AND NOTES

k:\1300\1341.00 — Otay Ranch R-178 (b)\Engineering\Plane\Improvement\1341.00 SHT 14 (Turning Template).dag

CONSTRUCTION RECORD

CONTRACTOR:

DATE COMPLETED: