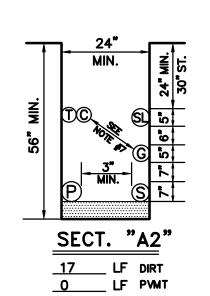
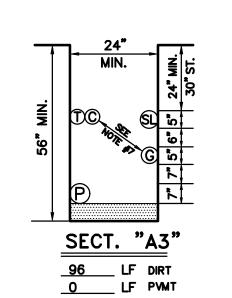
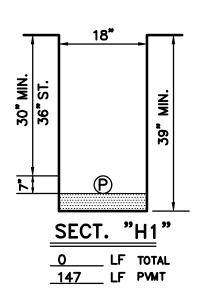


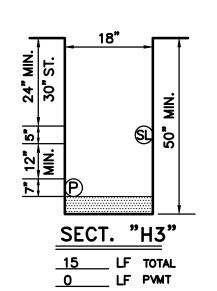
SECT. "L"

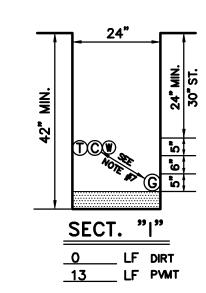
0 LF TOTAL
48 LF PVMT



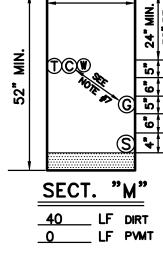


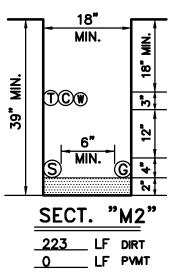




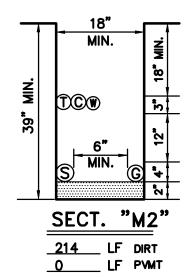




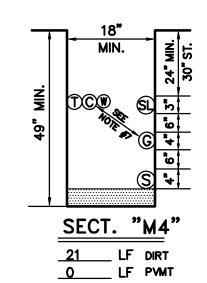


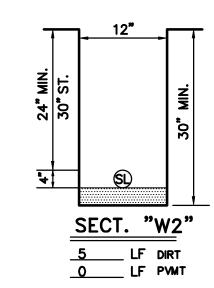


SERVICE STUB



SERVICE COMPLETION





PG&E APPLICANT DESIGN APPROVAL responsibility to construct the facilities according to PG&E Standards. In the event of a conflict during construction, Gas ADE: Erik Kvist Desk Phone: 925-270-2292 Approval Signature: The Kint 4/1/20

### APPLICABLE P.Q.+ E. STANDARDS, STANDARD PRACTICES AND DRAWINGS.

- 1. <u>TRENCHING</u>: JOINT TRENCH UO STANDARD S5453 SPECIFICATION FOR TRENCHING BY APPLICANT, GAS OPERATIONS FORM (75-94)
- UNDERGROUND CONDUITS, UG DWG. 062288
- SECONDARY BOXES FOR ELECTRIC UNDERGROUND, UG DWG. 028028 CABLE SUPPORT FOR UNDERGROUND USE, UG DWG 028077 PRIMARY ELECTRIC UNDERGROUND EQUIPMENT ENCLOSURES, UG DWG. 062000
- 4. <u>CABLE</u>:
  CABLES FOR UNDERGROUND DISTRIBUTION, UG DWG. 039955
- SPLICES AND TERMINATIONS:
- MULTI-TAP SPLICE FOR 600V INSULATED CABLES, UG DWG. 036640
  PREMOLDED PERM. 200A SPLICES FOR PRIMARY UG CABLE, UG DWG. 039081
  CABLE END CAPS, UG DWG. 048640
  SPLICES FOR 600V CONDUCTOR, UG DWG. 051034
  PREMOLDED 600A SPLICES FOR PRIMARY UG CABLES, UG DWG. 053732
  INSTALLATION OF 200 AND 600 AMP SPLICES, UG DWG. 060809
  PREMOLDED 200A TERMINATIONS FOR PRIMARY UG CABLE, UG DWG. 035314
  TERMINATIONS FOR 15KV & 22KV CABLES, UG DWGS. 041584 & 043902
  600A SEPARABLE INSULATED CONNECTORS, UG DWG. 051071
- ELECTRIC SERVICES: 0-600V UG TERMINATIONS, UG DWG. 058817 0-600V RESIDENTIAL UG SERVICE, UG DWG. 063927 0-600V COMMERCIAL UG SERVICE, UG DWG. 063928
- 8. <u>GAS PIPE</u>:
  PLASTIC PIPE DIRECT BURIAL CONSTRUCTION, GAS STD. A-90
  LOCATION WIRE INSTALLATION FOR D.B. PLASTIC, GAS STD. A-90.2
  SPECIFICATIONS & STANDARDS FOR PLASTIC PIPE,GAS STD. A-93
  HEAT FUSION JOINING OF PLASTIC PIPE, GAS STD. D-21
- <u>FITTINGS</u>:
  PLASTIC FITTINGS, GAS STDS. B-90, B-90.1, B-90.2, B-90.3, B-91, B-91.2
- METER VALVES, GAS STD. F-80 PLASTIC VALVE LIST, GAS STD. F-90
- 11. <u>CATHODIC PROTECTION</u>:
- WRE SPLICES, GAS STD. 0-12 INSTALLATION OF ANODES, GAS STD. 0-13.1
- 12. <u>GAS SERVICES</u>: PLASTIC SERVICE INSTALLATION, GAS STD. A-90 RISER ASSEMBLY, GAS STD. A-91

OTHER STANDARDS, STANDARD PRACTICES AND DRAWINGS MAY APPLY, REFER TO THE LATEST ELECTRIC UNDERGROUND CONSTRUCTION STANDARDS, GAS T & D CONSTRUCTION STANDARDS OR THE ELECTRIC AND GAS SERVICE REQUIREMENTS MANUAL (GREEN BOOK).

#### SUBSTRUCTURE VERIFICATION STAMP

# DEVELOPER PLEASE NOTE AND SIGN

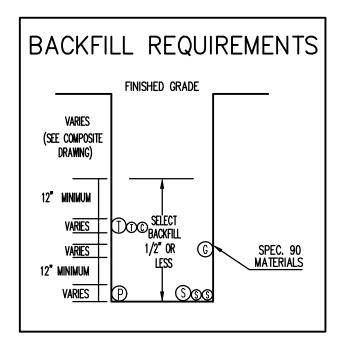
ALL PG&E ENCLOSURES AND BOXES HAVE BEEN SET TO GRADE ACCORDING TO GRADE STAKES PROVIDED BY DEVELOPERS ENGINEER. ALL COSTS TO RELOCATE OR RE-ADJUST BOXES AT A LATER DATE WILL BE BILLED TO THE DEVELOPER. PLEASE HAVE YOUR JOB SUPT. VERIFY THE CORRECT GRADE OF ALL ENCLOSURES AND BOXES, AND SIGN AND DATE DRAWING.

		THANK YOU
	SIGNED:	
,	DATE:	

## **NOTES**

- Trench sections are shown schematically and indicate areas of occupancy only; they do not reflect size or quantity of facilities to be installed.
- 2. Trench footages per section are approximate, sections are designed to accommodate all required facilities as indicated on each trench participant's construction drawings.
- 3. The contractor shall verify trench footages for accuracy prior to excavation and take necessary precaution crossing water and sewer facilities.
- 4. The contractor shall refer to the composite, conduit, and/or each respective utility's installation plan for the necessary conduit cable and/or pipe to be installed in this project.
- 5. Type "M2" trench shall be installed after curb and gutter installation. Contractor shall coordinate additional move—ins necessary to complete the services to the dwelling units with the developer, all agencies and the utility companies. The cost of these move—ins shall be included in the contractor's unit price for trenching.
- 6. The average trench depths shown are based on the minimum utility company requirements for depth and separation.

  Contractor shall adjust trench width & depth as required to adequately clear existing underground facilities & maintain minimum utility clearances. (see min. cover & clearance table)
- 7. Per UO S5453, exhibit B, separation between gas facilities and electric facilities may be reduced to 6" when crossing. Also, when communication ducts are installed, a minimum of 12" radial separation shall be maintained from gas facilities although, when 4" diameter or smaller gas pipe is installed, with mutual agreement only, the speparation may be reduced to 6".
- 8. Contractor shall use sand bedding and shading as required by the utility companies. All trench sections shown hereon include a 4 inch thick bedding layer.



**DESIGN CHANGE COMPONENT:** ANY CHANGES IN THE GAS DESIGN MUST BE APPROVED BY THE GAS ADE, *NAME:* \_\_\_\_\_ NUMBER:

P.G.& E. SKETCH BY DEVELOPER

GAS <u>PM #35112731</u>

ELEC <u>PM #35112862</u>

NOT. #116473530

### **GAS NOTE**:

TRENCH DEPTH NOT TO EXCEED 5' UNLESS APPROVED BY PG&E INSPECTOR. IN NO CASE SHOULD PLASTIC GAS PIPE BE INSTALLED AT A DEPTH GREATER THAN 10' UNLESS APPROVED BY PG&E SENIOR GAS ENGINEER.

	MINIMUM SEPARATION AND C	CLEAR.	ANCE	REQU	IREME	.NTS (	'INCHE	<u>s</u> )
	UTILITY	G	DUCT T	DB T	С	S	Р	SL
G	GAS SEE NOTES 4,7, & 13	_	12"	12"	12"	6"	12"	6 <b>"</b>
Т	TELEPHONE (DUCT)	12"	_	1"	1"	12"	12"	12"
Т	TELEPHONE (DIRECT BURY)	12"	1"	_	1"	12"	12"	12"
С	CATV	12"	1"	1"	_	12"	12"	12"
S	ELECTRIC SECONDARY	6"	12"	12"	12"	1.5"	3"	1.5"
Р	ELECTRIC PRIMARY	12"	12"	12"	12"	3"	3"	3"
SL	STREETLIGHT SEE NOTE 5	6"	12"	12"	12"	1.5"	3"	1.5"
FE*	FOREIGN ELECTRIC (SOURCES NON-PG&E*) SEE NOTE 5	12"	12"	12"	12"	12"	12"	12"

\*MUST BE CONSIDERED A 'UTILITY' AS DEFINED IN <u>UTILITY STANDARD S5453, "JOINT TRENCH."</u> NOTES 4, 5, 7, AND 13 ARE LOCATED IN <u>UTILITY STANDARD S5453, EXHIBIT B, "JOINT TRENCH</u> CONFIGURATIONS AND OCCUPANCY GUIDE."

\*\*FOR EXCEPTIONS, REFER TO G.O. 128 RULE, SECTION B, ITEMS (1) AND (2)

JOINT TRENCH OCCUPANCY GUIDE																															
TRENCH SECTIONS	/	4	В		)	D		E	E		F		G		Н		J	Κ	L	М	Ν	0	Ρ	Q	R	S	Т	U	V	W	
GAS	Х	X	Х	Х	X	Х			X	X							Х	Х	Х		Х	Х	X		X			X			
TELEPHONE	Х	X	Х	X			X	Х			X	X					Х	Х		X	Х	Х		Х		Х			Х		
CABLE T.V.	Х	X			X	Х	Х	Х					Х	Х			Х		Х	X	Х		X	Х			Х			Х	
ELECTRIC SEC.	Х		Х		Х		Х		Х		Х		Х		Х						Х	Χ	Х	Х	Х	Х	Х				Х
ELECTRIC PRI.	Х	X	Х	Х	X	Х	X	Х	X	X	X	Х	X	Х	X	Х															

THE SYMBOLS BELOW INDICATE SCHEMATIC AREAS OF OCCUPANCY:

G GAS MAIN AND SERVICE S ELECTRIC SECONDARY AND SERVICE R IRRIGATION (PRIVATE) (P) ELECTRIC PRIMARY C CABLE TV SI STREET LIGHT (PRIVATE) (T) TELEPHONE

(W) WAVE ST. = MINIMUM COVER IN STREET AREAS

SUNSHINE DESIGN
AN IUCG CO.
UTILITY DESIGN ENGINEERS SHEET LUIS ROAD SS COMPANY

DETAIL
1728 SAN I

DESIGNED:

CHECKED:

SCALE:

DATE:

JOB NO.

SHEET NO.

DL

SA

NONE

9/25/19

933-18-D

JT1

OF <u>2</u>

