

SANTAFE AVENUE VICINITY MAP NOT TO SCALE

SHEET INDEX SHEET NO. DESCRIPTION JOINT TRENCH COMPOSITE TITLE SHEET JOINT TRENCH GENERAL NOTES AND DETAILS JOINT TRENCH DETAILS JT3 JT4 JOINT TRENCH SECTIONS AND DETAILS JT5 - JT9 JOINT TRENCH COMPOSITE PLAN STREET LIGHTING GENERAL NOTES AND DETAILS SL1 SL2 - SL5 STREET LIGHTING SITE PLAN

9,503 L.F. OF JOINT TRENCH AND 27 STREET LIGHTS SHALL BE INSTALLED WITH THIS JOINT TRENCH PLAN SET

138 SINGLE FAMILY HOMES

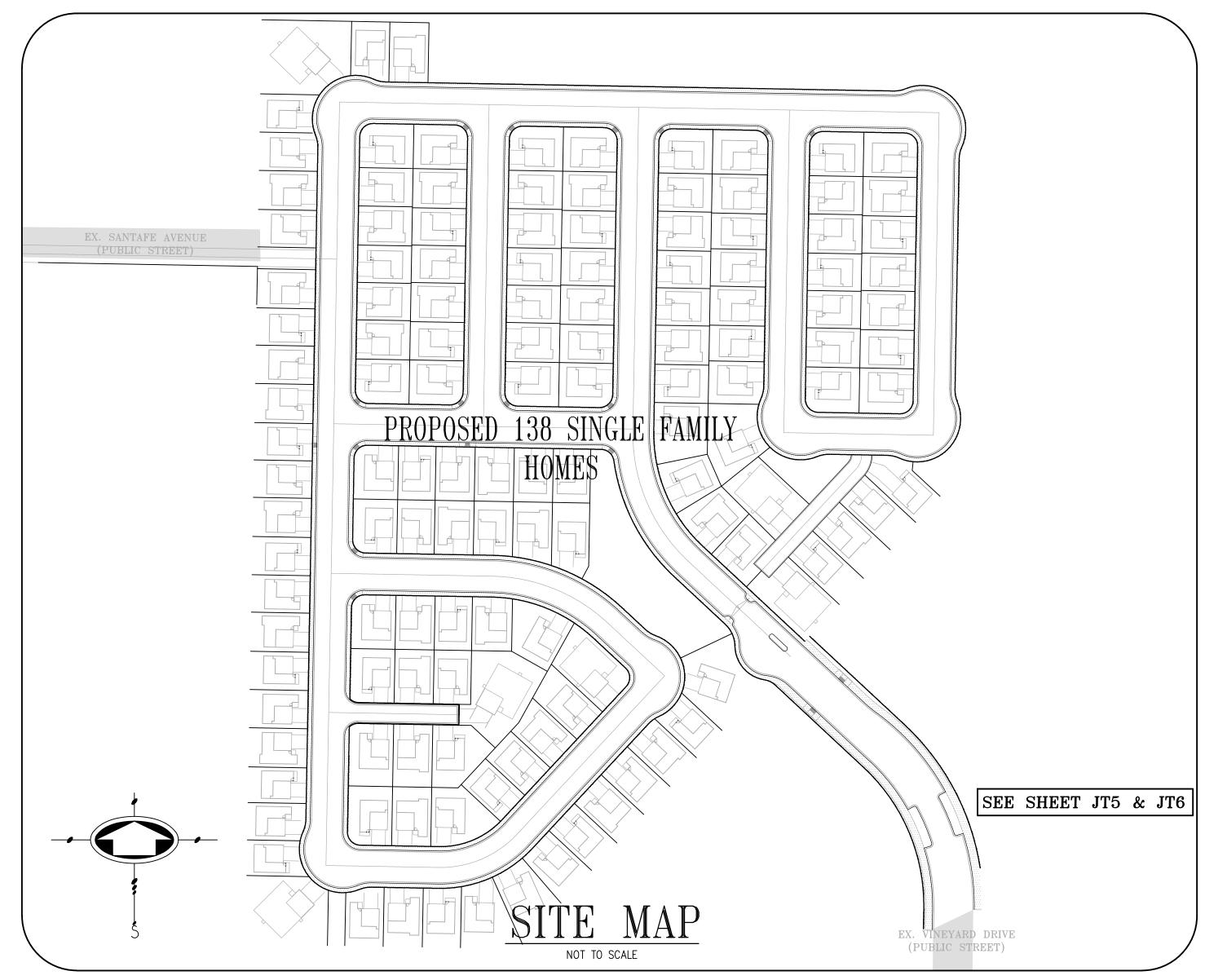
813 First Street

(925) 240-2595

www.tarrar.com

138 NEW SERVICE COMPLETIONS (ELECTRIC, TELEPHONE & CATV)

DENOVA HOMES RANCHO MEADOWS ANTIOCH CONTRA COSTA COUNTY CALIFORNIA



	<u>LEGEND</u>
—— JT ——	PROPOSED JOINT TRENCH
svc	PROPOSED JOINT TRENCH SERVICE
—— EX JT ——	EXISTING JOINT TRENCH
—— GAS ——	PROPOSED GAS
—— EX GAS ——	EXISTING GAS
——— ESL ———	EXISTING STREET LIGHT CONDUIT
—— ECUG ——	EXISTING UNDERGROUND CATV LINES
—— EEUG ——	EXISTING UNDERGROUND ELECTRIC LINES
—— EUUG ——	EXISTING UNDERGROUND UTILITY LINES
—— ETUG ——	EXISTING UNDERGROUND TELEPHONE LINES
—— EUOH ——	EXISTING OVERHEAD UTILITY LINES
—— ЕСОН ——	EXISTING OVERHEAD CATV LINES
—— ЕТОН ——	EXISTING OVERHEAD TELEPHONE LINES
—— ЕЕОН ——	EXISTING OVERHEAD ELECTRIC LINES
CUG	PROPOSED UNDERGROUND CATV LINES
—— EUG ——	PROPOSED UNDERGROUND ELECTRIC LINES
—— TUG——	PROPOSED UNDERGROUND TELEPHONE LINES
——— UOH———	PROPOSED OVERHEAD UTILITY LINES
	DESIGNATES UTILITY LINES TO BE REMOVED
	PROPOSED 36"x52" PG&E PAD MOUNT TRANSFORMER
6	PROPOSED 4'x6'6"x5' PG&E SUBSURFACE SPLICE BOX.
FVT 5S	PROPOSED 3'x5'x4'6" PG&E SUBSURFACE SPLICE BOX.
T2	PROPOSED 14"x20"x15" TELEPHONE SERVICE BOX
C	PROPOSED 13"x24"x18" CATV SPLICE BOX (B30)
	PROPOSED METER SERVICE PEDESTAL
	EXISTING PRIMARY SPLICE BOX
	EXISTING SECONDARY SPLICE BOX
	PHOTO NUMBER REFERENCE, SEE PHOTO EXHIBIT SHEET(S)

TARRAR UTILITY REP.:	KHALID TARRAR	JOB NO.	224086	PHONE NO.	(925) 240-259
DEVELOPER:	DENOVA HOMES	JOB NO.	224086	PHONE NO.	R-DEVELPHN
PG&E ELECTRIC COORDINA	TOR:TBD	JOB NO.	R-ELECJOBNO	PHONE NO.	R-ELECPHNO
PG&E GAS COORDINATOR:	TBD	JOB NO.	R-GASJOBNO	PHONE NO.	R-GASPHNO
TELEPHONE REP.:	ATT	JOB NO.	R-TELEJOBNO	PHONE NO.	R-TELEPHNO
CABLE T.V. REP.:	COMCAST	JOB NO.	R-CATVJOBNO	PHONE NO.	R-CATVPHN

<u>FILES STATUS</u>										
DESCRIPTION:	BY:	DATE:	STATUS							
CIVIL PLANS (ELECTRONIC FILE)	CBG	06-11-2024	R							
ARCHITECTURAL PLANS (ELECTRONIC FILE)	CBG	06-11-2024	R							
LANDSCAPE PLANS (ELECTRONIC FILE)	XXXX	XX-XX-XXXX	XXXX							
GAS DESIGN	TARRAR UTILITY CONSULTANTS	XX-XX-XXXX	XXXX							
ELECTRIC DESIGN	TARRAR UTILITY CONSULTANTS	XX-XX-XXXX	XXXX							
TELEPHONE INTENT REPLY	XXXX	XX-XX-XXXX	XXXX							
CATV INTENT REPLY	XXXX	XX-XX-XXXX	XXXX							
STREET LIGHT PLANS — PUBLIC	XXXX	XX-XX-XXXX	XXXX							
STREET LIGHT PLANS — PRIVATE	XXXX	XX-XX-XXXX	XXXX							
SOILS REPORT	XXXX	XX-XX-XXXX	XXXX							

TARRAR UTILITY CONSULTANTS APPROVED FOR SUBMITTAL NICK DELGADO QUALIFIED APPLICANT DESIGN ENGINEER

CO	MPOSITE DRAWING BY DE	VELOPER
Approved .	Telephone representative	Date
Approved .	CATV representative	Date

DESIGN CHANGE COMPONENT

ANY CHANGES TO THIS DESIGN MUST BE APPROVED BY

ADD ADE NAME / PH# HERE PG&E GAS ADE

SUBSTRUCTURE VERIFICATION STAMP DEVELOPER NOTE AND SIGN

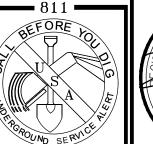
ALL PG&E ENCLOSURES AND BOXES HAVE BEEN SET TO GRADE ACCORDING TO GRADE STAKES PROVIDED BY DEVELOPERS ENGINEER. ALL COSTS TO RELOCATE OR READJUST BOXES AT A LATER DATE WILL BE BILLED TO THE DEVELOPER. PLEASE HAVE YOUR JOB SUPT. VERIFY THE CORRECT GRADE OF ALL ENCLOSURES AND BOXES, AND SIGN AND DATE DRAWING.

TARRAR Brentwood, CA 94513 (925) 240-7013 fax

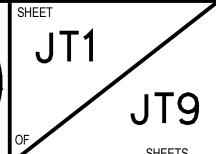
JOINT TRENCH COMPOSITE TITLE SHEET

DENOVA HOMES RANCHO MEADOWS CALIFORNIA

NO.	REVISIONS	BY	DATE	DATE: ILINE 2024	ATE: JUNE 2024 DATE LAST WORKED ON: 11/20/2024						
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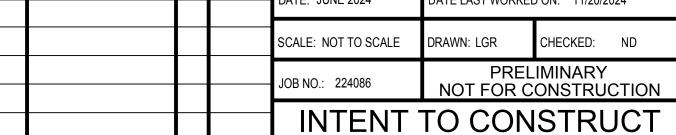








▶ PGEE Gas Design EstimatingPG&E Elec Design



PROJECT NOTES:

- FIELD ADJUST SERVICES TO MINIMIZE INTERFERENCE WITH EXISTING FACILITIES (TYPICAL).
- 2. CONTRACTOR SHALL PERFORM ALL TRENCHING, EXCAVATING, BACKFILLING AND OTHER WORK AS SHOWN OR NOTED ON PLANS, AND AS SPECIFIED ON UTILITY BID DOCUMENTS.
- 3. FIELD ADJUST SPLICE BOXES TO KEEP CLEAR OF SIDEWALK, DRIVEWAYS AND EXISTING FACILITIES (TYPICAL).
- 4. A 3 FOOT LEVEL WORKING AREA MUST BE MAINTAINED AROUND ALL ELECTRIC ENCLOSURES. PRIOR TO ENERGIZING THE SYSTEM. THE ELECTRIC UTILITY COMPANY INSPECTOR WILL DETERMINE IF RETAINING WALLS ARE REQUIRED TO MEET MINIMUM CLEARANCE BETWEEN ENCLOSURES AND THE TOPS OR TOES OF SLOPES. IF RETAINING WALLS ARE REQUIRED, THE DEVELOPER AND/OR CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FROM THE CITY/COUNTY BUILDING DEPARTMENT PRIOR TO WALL CONSTRUCTION.
- TRANSITION TO VAULTS FROM TRENCH NOT SHOWN, SEE TRANSITION DETAIL SHEET JT3 (TYPICAL).
- 6. CONTRACTOR SHALL PLACE ALL UTILITY SPLICE BOXES, ENCLOSURES & CONDUIT IN PROPER RELATIONSHIP TO FINAL GRADE (SHOWN SCHEMATICALLY).
- 7. ALL PG&E, TELEPHONE, CABLE T.V. AND FIBER OPTIC BOXES AND JOINT TRENCH FACILITIES ARE TO MAINTAIN A MINIMUM OF 3' SEPARATION FROM SEWER, WATER LATERALS AND DRIVEWAYS.
- B. CONTRACTOR SHALL COORDINATE ALL CONNECTIONS BETWEEN PROPOSED AND EXISTING FACILITIES AS DIRECTED BY THE RESPECTIVE UTILITY COMPANY INSPECTOR. UTILITY COMPANY PERSONNEL SHALL MAKE ALL "HOT TIE-INS"; THE CONTRACTOR IS PROHIBITED FROM WORKING IN ANY ENERGIZED FACILITIES.
- 9. THE CONTRACTOR SHALL OBTAIN THE APPROPRIATE STREET EXCAVATION AND ENCROACHMENT PERMIT(S) FROM THE CITY/COUNTY PRIOR TO STARTING WORK IN THE PUBLIC STREET AREA.
- 10. FIELD LOCATE JOINT TRENCH FACILITIES TO KEEP CLEAR OF SERVICE LATERALS. SERVICE LATERALS TO BE ROUTED TO AVOID SPLICE BOX (ADDITIONAL P.U.E MAY BE REQUIRED).
- 11. RESPECTIVE UTILITY COMPANY TO OBTAIN CITY APPROVAL OF ALL ABOVE GROUND EQUIPMENT.
- 12. UNLESS OTHERWISE SHOWN ON THE PLANS, NATURAL BENDS SHALL BE USED FOR ALL CONDUIT EXCEPT STREET LIGHT CONDUIT.
- 13. INCIDENTAL TRENCHING TO SPLICE BOXES NOT SHOWN (TYPICAL). CONTRACTOR TO PROVIDE ADDITIONAL TRENCHING AS REQUIRED FOR CONDUIT ROUTING TO SPLICE BOXES AND CABINETS (TYPICAL).
- 14. ALL CONDUITS SHALL ENTER OR EXIT PERPENDICULAR TO BOX WALLS.
- 15. ALL CONDUITS MUST BE MANDREL TESTED AND APPROVED.
- 16. OFFSET SPLICE BOXES TO ROUTE TELEPHONE/FIBER OPTIC CONDUIT AS NEEDED (TYPICAL).
- 17. PULL ROPES SHALL BE PLACED IN ALL EMPTY CONDUITS AS REQUIRED BY EACH UTILITY COMPANY.
- 18. ALL PG&E SPLICE BOXES ADJACENT TO TRANSFORMER SHALL BE 26" IN DEPTH (TYPICAL).
- 19. ALL CONDUITS NOT ENTERING SPLICE BOXES OR ENCLOSURES SHALL BE CAPPED.
- 20. COORDINATE TIE-IN WITH UTILITY COMPANY AS REQUIRED.
- 21. THE STREET LIGHT SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE "MATERIAL AND LABOR RECAP" AND LIGHT SCHEDULE AS SHOWN ON THESE PLANS.
- 22. ALL EXISTING DUCTS TO BE USED IN THESE PLANS SHALL BE "VERIFIED" BY PULLING A MANDREL THROUGH THE ENTIRE EXISTING LENGTH PRIOR TO CONNECTION.
- 23. EDGE OF SPLICE BOXES & PEDESTALS SHALL BE 5' FROM EDGE OF FIRE HYDRANT AND 3' FROM STREET LIGHT (TYPICAL). CONTRACTOR TO AVOID DISTURBING FIRE HYDRANT THRUST BLOCK.
- 24. ALL UTILITY SUBSTRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE "MATERIAL AND LABOR RECAP" SHOWN ON THESE PLANS
- 25. MAINTAIN 3' CLEARANCE AND LEVEL AREA AROUND PRIMARY SPLICE BOXES & XFMRS.
- 26. DUE TO UNCERTAINTIES OF THE EXACT LOCATION OF EXISTING FACILITIES, FIELD LOCATION OF PROPOSED FACILITIES MAY BE REQUIRED. CONFIRM WITH VARIOUS UTILITIES FOR EXACT PLACEMENT.
- 27. FOR CLARITY BOXES/PEDESTALS ARE SHOWN AT LARGER SIZE THAN ACTUAL. FIELD ADJUST TO KEEP CLEAR OF DRIVEWAYS (TYPICAL).

ABBREVIATION LIST

HIGH PRESSURE SODIUM

RETAINING WALL

WITHOUT

WATER LINE EASEMENT

TRANSFORMER

- 28. ALL SERVICE FACILITIES SHALL BE EXTENDED TO EITHER THE PROPERTY LINE OR TO POSITION SHOWN ON THE PLANS, AND THEN CAPPED, BURIED AND LOCATION STAKED.
- 29. THESE PLANS WERE PREPARED UTILIZING PLANS RECEIVED FROM CBG (XXX) XXX-XXXX

BACK OF CURB

GENERAL ELECTRIC

HOME OWNERS ASSOCIATION

GROUND

JOINT TRENCH AND UTILITY BOX LOCATION

THIS AREA RESERVED FOR JOINT TRENCH SECTIONS TO BE PLACED AT A

JOINT TRENCH STREET SECTIONS

NOT TO SCALE NOTE: SEE PLANS FOR CONFIGURATIONS AND ARRANGEMENTS. * UNLESS OTHERWISE SHOWN

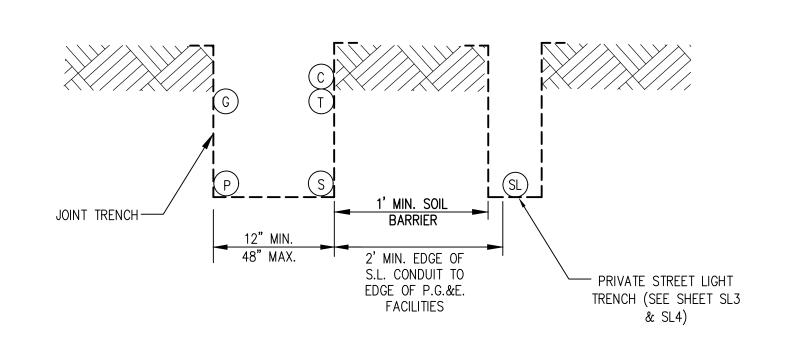
> WITHIN ROADWAY SECTION (95% RELATIVE COMPACTION FOR THE TOP 6" BELOW ROAD SUBGRADE AND 90% BELOW THAT)

BACK OF WALK IRRIGATION CONTROLLER RIGHT OF WAY JOINT TRENCH SCHEDULE KILO-VOLTS STORM DRAIN CENTERLINE LANDSCAPE EASEMENT SHEET CATALOG LINEAR FOOT/FEET SIDE WALK C OR CATV CABLE TELEVISION SANITARY SEWER SANITARY SEWER EASEMENT CAPITOL IMPROVEMENT PROJECT MINIMUM POINT OF ENTRY SUBDIVISION OUTER DIAMETER SQUARE FOOTAGE TELEPHONE EDGE OF PAVEMENT PRIVATE INGRESS, EGRESS TARRAR UTILITY CONSULTANTS AND UTILITY EASEMENT EMERGENCY VEHICLE **TYPICAL** ACCESS EASEMENT PROPERTY LINE TRAFFIC SIGNAL EXISTING P.S. POWER SUPPLY UNDERGROUND F/C FACE OF CURB PROJ. PROJECT U.O.N. UNLESS OTHERWISE NOTED FIRE HYDRAN PSDE PRIVATE STORM DRAIN EASEMENT VOLT FUTURE PSE PUBLIC SERVICE EASEMENT F.0. FIBER OPTIC PRIVATE VEHICLE ACCESS WAY GAS P.V.C. POLY VINYL CHLORIDE GALV. GALVANIZE PUBLIC WATER LINE EASEMENT

PUE PUBLIC UTILITY EASEMENT

PRIVATE STREET LIGHT TRENCH LOCATION ADJACENT TO JOINT TRENCH

PRIVATE STREET LIGHT SECTION DETAIL



GENERAL NOTES:

- 1. ALL JOINT TRENCH CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH PG&E UTILITY OPERATIONS UO STANDARD S5453.
- 2. ALL WORK SHALL BE SUBJECT TO THE INSPECTION AND SATISFACTION OF ALL PARTICIPATING UTILITIES AND CITY INSPECTORS.
- 3. BACKFILL SELECTION SHALL BE SUBJECT TO THE APPROVAL OF THE RESPECTIVE UTILITY COMPANIES, THE SOILS ENGINEER AND THE CITY AND/OR COUNTY WHERE THE PROJECT IS LOCATED. CONSULT PARTICIPATING UTILITIES, SOILS ENGINEER, AND THE CITY FOR APPROVED BACKFILL MATERIAL. COMPACTION TO MEET LOCAL AGENCIES REQUIREMENTS.
- 4. THE BOTTOM OF THE TRENCH SHALL BE CLEARED OF ROCKS AND OTHER HARD SURFACES. DISTRIBUTION TRENCHES WITHOUT TELEPHONE CONDUIT DO NOT REQUIRE BEDDING MATERIAL. SERVICE TRENCHES WITHOUT TELEPHONE CONDUIT REQUIRE 2" SAND BEDDING AS A PAD ON WHICH UTILITY FACILITIES CAN REST. SERVICE TRENCHES CONTAINING TELEPHONE CONDUIT ONLY REQUIRE A 1" SAND BEDDING. ALL OTHER TRENCHES CONTAINING TELEPHONE CONDUIT REQUIRE A 3" SAND BEDDING. REFER TO PG&E GREEN BOOK PUBLICATION S5453, EXHIBIT B AND AT&T SPEC95 "AT&T SPECIFICATIONS" TRENCHING AND CONDUIT GUIDE FOR FURTHER INFORMATION.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE PAVEMENT AND/OR SIDEWALK WHERE REMOVED OR DAMAGED AS A RESULT OF ITS OPERATION (UNLESS OTHERWISE NOTED). REPLACEMENT OF PAVEMENT AND/OR SIDEWALK TO BE PER CITY SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND NOTIFY ALL PARTICIPATING UTILITY INSTALLATIONS.
- 7. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT FIRST NOTIFYING TARRAR UTILITY CONSULTANTS.
- 8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE AND/OR PRECISE LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO THE START OF CONSTRUCTION. TARRAR UTILITY CONSULTANTS MAKES NO WARRANTY WHATSOEVER THAT THE EXISTING UNDERGROUND UTILITIES AND/OR STRUCTURES DEPICTED ON THE PLANS HAVE BEEN ACCURATELY LOCATED OR THAT THERE ARE NO OTHER UNDERGROUND UTILITIES AND STRUCTURES IN ADDITION TO WHAT HAS BEEN SHOWN. CALL U.S.A. A MINIMUM OF 48 HOURS PRIOR TO STARTING CONSTRUCTION. FOR CALIFORNIA NORTH, (KERN COUNTY AND NORTHERLY, AND NEVADA) CALL (800)227-2600. FOR CALIFORNIA SOUTH, (SAN BERNARDINO COUNTY AND SOUTHERLY) CALL (800)422-4133.
- CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY AND CITY LAWS AND ORDINANCES AND WITH THE REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS. O.S.H.A. AND ANY OTHER GOVERNMENTAL AGENCY RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL.
- 10. THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED TO BE COMPLEMENTARY TO EACH OTHER. ANYTHING SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, OR MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, SHALL BE OF LIKE EFFECT AS IF SHOWN ON OR MENTIONED IN BOTH. IF DISCREPANCY IS FOUND, NOTIFY TARRAR UTILITY CONSULTANTS PRIOR TO STARTING WORK.
- 11. TRENCH AND CONDUIT LAYOUTS ARE SHOWN SCHEMATICALLY.
- 12. TRENCHING OR SUBSTRUCTURE EXCAVATION MAY NECESSITATE OPERATION OVER, UNDER, OR ADJACENT TO OTHER UNDERGROUND UTILITIES (STORM, SEWER, WATER, ETC...). THE CONTRACTOR IS RESPONSIBLE TO LOCATE, PROSPECT, EXPOSE AND PROTECT ALL ADJACENT OR CROSSING UNDERGROUND UTILITIES. THIS WORK TO PROTECT THOSE UTILITIES IS NOT CONSIDERED AS EXTRA WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW IMPROVEMENT PLANS, IN CONJUNCTION WITH THIS PLAN, AND BID THE WORK ACCORDINGLY.
- 13. THE QUANTITIES SHOWN ON THESE PLANS ARE ONLY ESTIMATES OF WHAT WILL ACTUALLY BE REQUIRED FOR THE CONSTRUCTION OF THE OVERALL PROJECT. FINAL QUANTITIES MAY VARY ACCORDING TO CHANGES, ADDITIONS, DELETIONS OR OMISSIONS ON THE ORIGINAL PLAN.
- 14. VERIFY ALL SUBSTRUCTURE EXCAVATION DIMENSIONS WITH SUPPLIER(S) BEFORE BIDDING.
- 15. TARRAR UTILITY CONSULTANTS ASSUMES NO RESPONSIBILITY FOR ANY VARIANCE BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHOULD REVIEW THE PROJECT SITE PRIOR TO SUBMITTING ITS BID.
- 16. THE CONTRACTOR IS REQUIRED TO EXCAVATE BELL HOLE(S) AT TIE-IN LOCATIONS AS DIRECTED BY PARTICIPATING UTILITY.
- 17. CONTRACTOR WILL COMPLY WITH ALL LAWS, ORDINANCES AND REGULATIONS. CONTRACTOR SHALL BE FAMILIAR WITH O.S.H.A. INDUSTRIAL ORDERS AND SHALL CONDUCT HIS WORK ACCORDINGLY. WHEN WORKING ENERGIZED EQUIPMENT, THE UTILITY OWNER SHALL BE NOTIFIED TO SUPPLY THE APPROPRIATE MAN POWER AND SAFETY PRECAUTIONS AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR PUBLIC SAFETY AND TRAFFIC CONTROL MEASURES.
- 18. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AS-BUILT DRAWINGS AFTER INSTALLATION OF PG&E'S GAS AND ELECTRIC SYSTEMS (PRIOR TO "HOT TIE-INS").
- 19. THE CITY INSPECTOR SHALL BE NOTIFIED TWO WORKING DAYS PRIOR TO COMMENCEMENT OF WORK. COORDINATE WITH THE INSPECTOR ANY SERVICES TO BE ABANDONED.
- 20. THE CONTRACTOR IS TO VERIFY THE RIGHT OF WAY, PUBLIC UTILITY EASEMENT AND/OR PUBLIC SERVICE EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.
- 21. PG&E'S GENERAL TERM AND CONDITIONS FOR GAS AND ELECTRIC EXTENSION AND SERVICE CONSTRUCTION BY "APPLICANT" (EFFECTIVE 07/1/95) TO BE UTILIZED FOR ALL TRENCHING, BACKFILLING, AND INSTALLATION WORK.
- 22. IN THE EVENT OF DISPUTES OR DISAGREEMENT OVER ANY INSTALLATIONS, DESIGNS, PLANS OR DRAWINGS, THE SPECIFICATIONS AND REQUIREMENTS OF THE INDIVIDUAL UTILITY COMPANIES AND THEIR INSPECTORS SHALL TAKE PRECEDENCE. IN CASE OF DISCREPANCIES WITHIN THE DRAWINGS AND SPECIFICATIONS HEREIN, THE CONTRACTOR SHALL CONSULT TARRAR UTILITY CONSULTANTS FOR INTERPRETATION BEFORE WORK IS STARTED.
- 23. TARRAR UTILITY CONSULTANTS HEREIN, ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE QUALITY, QUANTITY OR TIMING OF WORK TO BE PERFORMED BY THE CONTRACTOR, UTILITY COMPANY CONSTRUCTION CREWS, OR OTHER SUB-CONTRACTOR OF DEVELOPER.
- 24. ALL TRENCHING, BACKFILLING AND INSTALLATION WORK IS TO BE IN ACCORDANCE WITH THE STANDARD PRACTICES AND SPECIFICATIONS OF EACH UTILITY COMPANY PARTICIPATING IN THE UTILITY TRENCHES WITHIN THE PROJECT.
- 25. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POINTS OF ACCESS THAT ARE AGREEABLE TO ADJACENT LAND USES AND TENANTS AT ALL TIMES.
- 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASCERTAINING WHAT INSPECTIONS WILL BE REQUIRED FOR APPROVAL OF THE WORK AND FOR COORDINATING ALL SUCH INSPECTIONS. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS PRIOR NOTICE TO THE CITY, SOILS ENGINEER, UTILITY COMPANIES OR ANY OTHER INDIVIDUALS OR PUBLIC AGENCIES, THAT THE WORK IS READY FOR INSPECTION.
- 27. THE CONTRACTOR SHALL NOTIFY DEVELOPER 48 HOURS PRIOR TO THE NEED FOR SURVEY STAKING. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION OF ALL CONSTRUCTION STAKING SET BY THE DEVELOPER'S SURVEYORS AND WILL BE BACK CHARGED FOR ANY RE-STAKING THAT IS REQUIRED. ANY EXTRA CONSTRUCTION STAKING NECESSITATED SOLELY BY THE CONTRACTOR'S NEGLIGENCE WILL BE CHARGED TO AND PAID FOR BY THE CONTRACTOR.
- 28. ALL TRANSFORMERS AND TRANSFORMER PADS ARE TO BE INSTALLED PER PG&E SPECIFICATIONS. PROTECTIVE BOLLARDS ARE TO BE PLACED WHERE NEEDED.
- 29. THE CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THE PROJECT IMPROVEMENT PLANS AND CONDUCT HIS WORK ACCORDINGLY.
- 30. KEEP ALL BOXES AND PEDESTALS WITHIN PUBLIC UTILITY EASEMENTS OR RIGHT OF WAY. AS SHOWN.
- 31. ALL SAND BACKFILL MUST HAVE TESTING OF PH LEVEL AS WELL AS SAND EQUIVALENT. SEE CITY OF ANTIOCH REQUIREMENTS
- 32. THE PROPOSED CONSTRUCTION OPERATION MAY TAKE PLACE AT OR NEAR FENCE LINES, PROPERTY LINES AND PROPERTY IMPROVEMENTS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING THESE AREAS AND FOR MAINTAINING THESE AREAS AND FACILITIES AT ALL TIMES DURING THE CONSTRUCTION OPERATION.
- 33. THE CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR THE SITE CONDITION AND SHALL DEFEND AND HOLD THE DEVELOPER AND TARRAR UTILITY CONSULTANTS HARMLESS FROM ANY ALLEGED CLAIMS OR LIABILITIES, EXCEPT THOSE ARISING FROM SOLE NEGLIGENCE OF THE DEVELOPER OR TARRAR UTILITY CONSULTANTS.
- 34. THE APPROXIMATE LOCATIONS OF ALL EXISTING UTILITY COMPANY UNDERGROUND LINES, POLES BOXES, ETC., WERE OBTAINED FROM A REVIEW OF AVAILABLE UTILITY COMPANY RECORDS, REPRESENTATIONS OF UTILITY COMPANY PERSONAL, OR FIELD OBSERVATIONS. NEITHER THE DEVELOPER NOR TARRAR UTILITY CONSULTANTS ASSUME ANY RESPONSIBILITY FOR VARIANCES BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS. NO EXTRA PAYMENT WILL BE MADE TO THE CONTRACTOR FOR ANY ADDITIONAL TRENCHING, BOX EXCAVATIONS, MATERIALS, ETC., THAT MAY BE REQUIRED TO COMPLETE THIS PROJECT IN THE EVENT AN EXISTING TIE-IN POINT SUBSTRUCTURE IS EITHER NON-EXISTING OR IS NOT SHOWN ON THE PLANS IN ITS ACTUAL FIELD POSITION. IT IS THE CONTRACTOR'S OBLIGATION AND RESPONSIBILITY TO SAFELY LOCATE ALL EXISTING UNDERGROUND FACILITIES BY SURFACE MARKING AND/OR HAND EXCAVATION PRIOR TO STARTING CONSTRUCTION.
- 35. "DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE TO OBTAIN A CITY OF ANTIOCH ENCROACHMENT PERMIT FOR ALL WORK DONE IN THE PUBLIC RIGHT OF WAY. DEVELOPER AND/OR CONTRACTOR IS ALSO RESPONSIBLE TO PROVIDE JOINT TRENCH PLANS TO THE CITY OF ANTIOCH AT THE TIME OF APPLICATION FOR THE ENCROACHMENT PERMIT."

813 First Street Brentwood, CA 94513 (925) 240-2595 (925) 240-7013 fax www.tarrar.com

GRD.

H.O.A.



 PGEE Gas Design PG&E Elec Design Estimating Joint TrenchM.E.P. Design

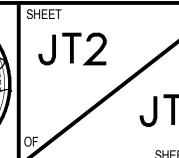
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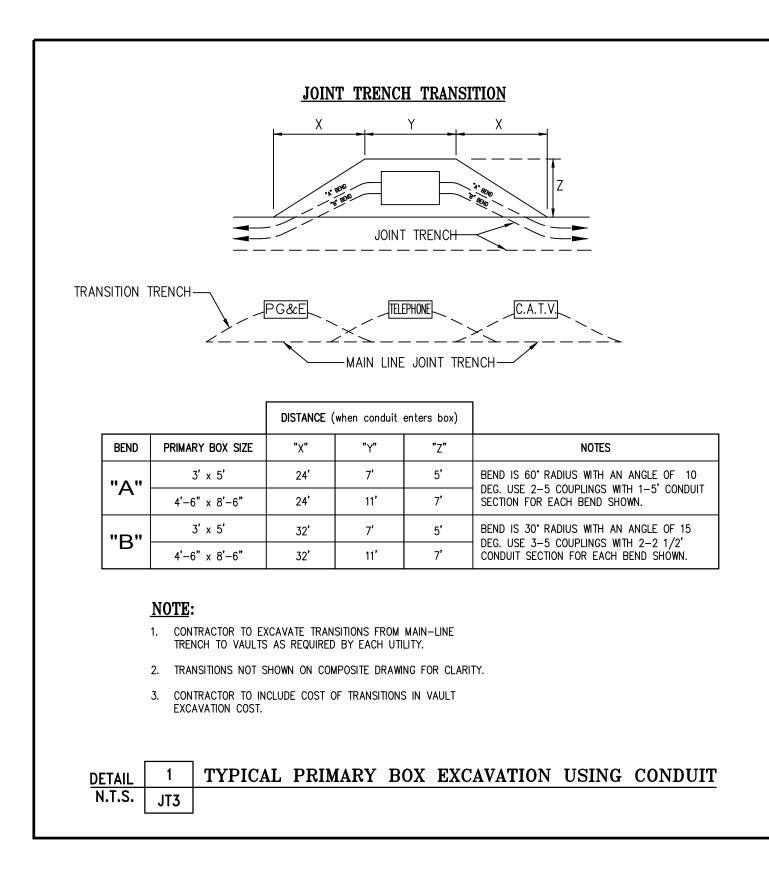
CALIFORNIA

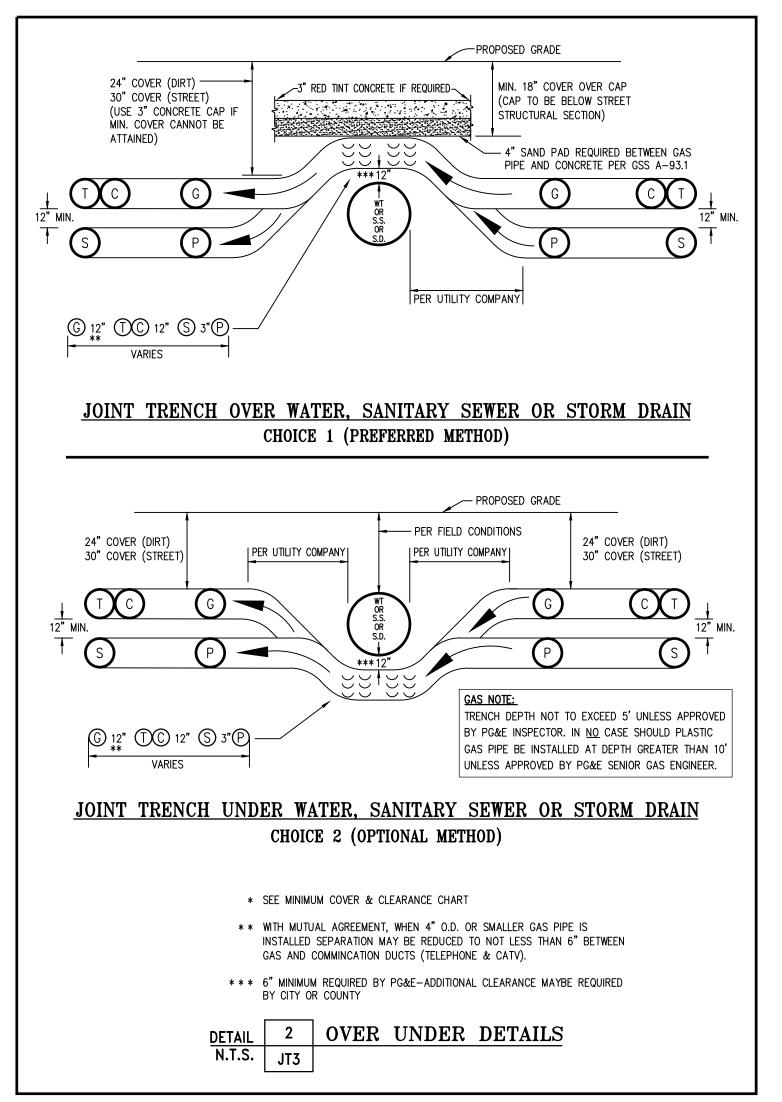
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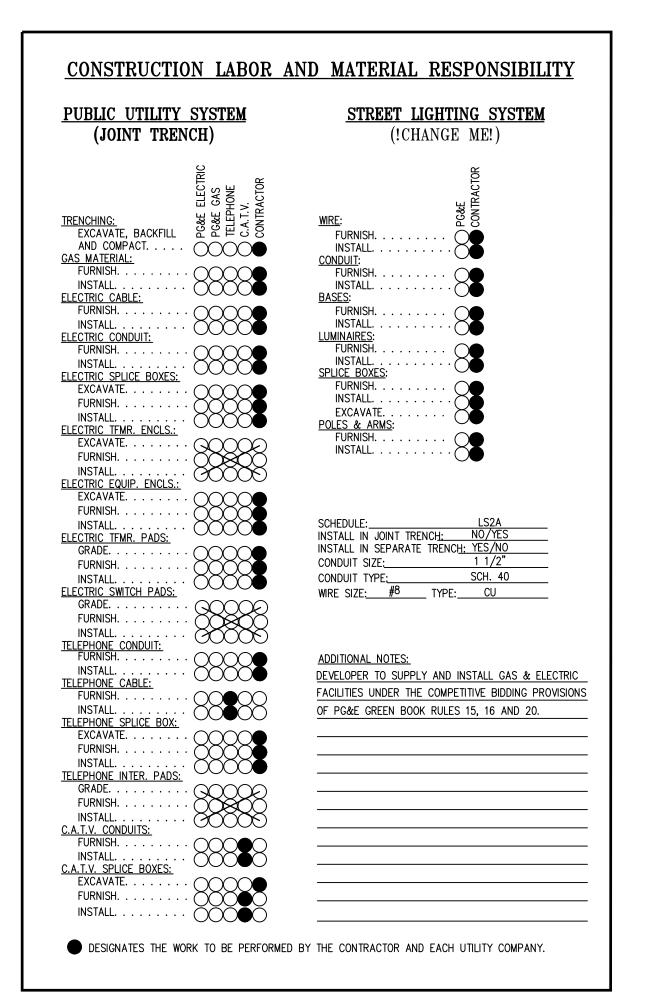


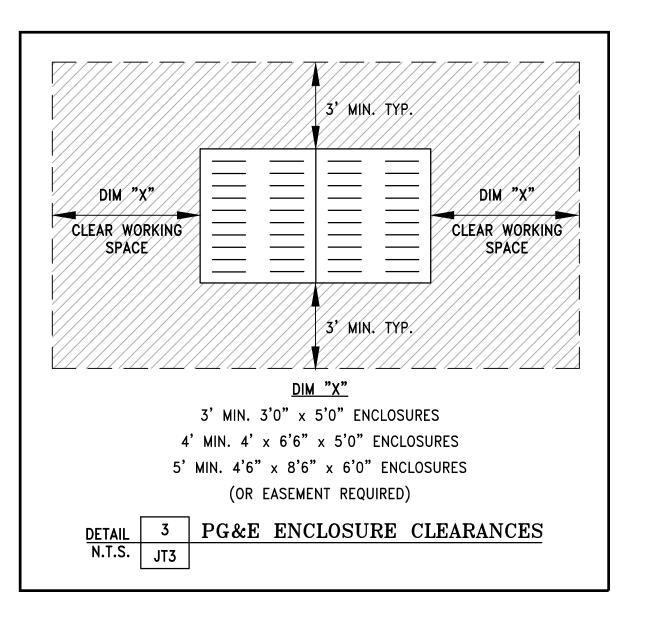


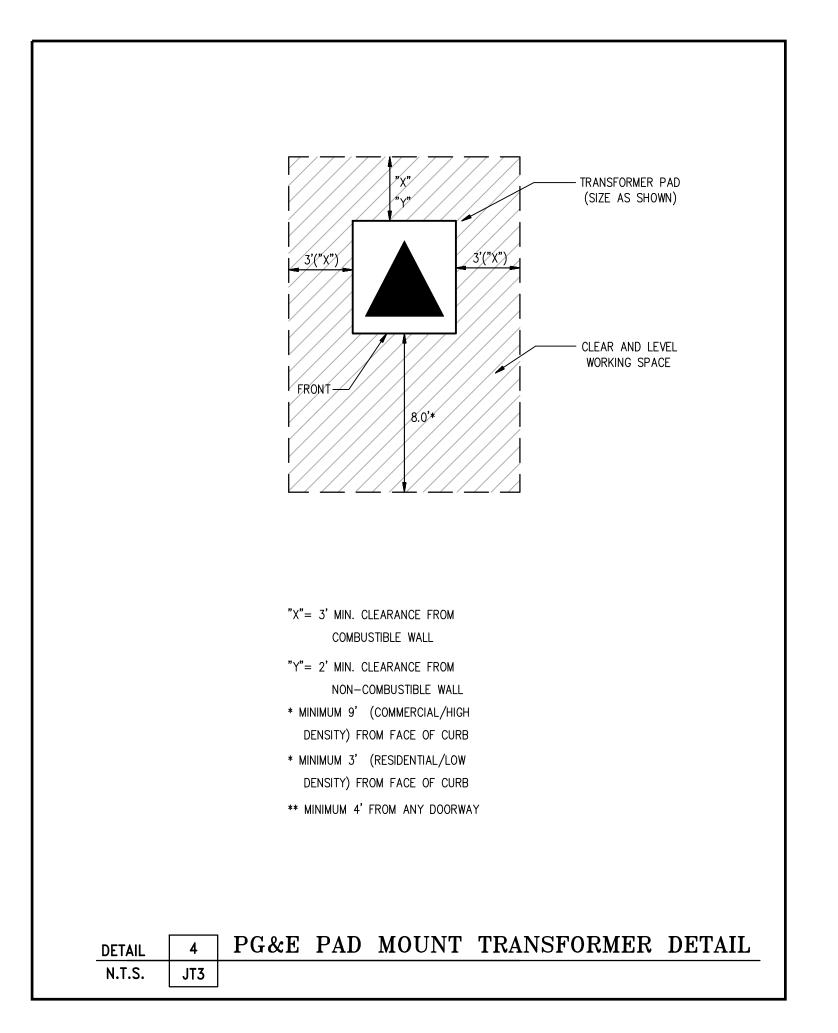


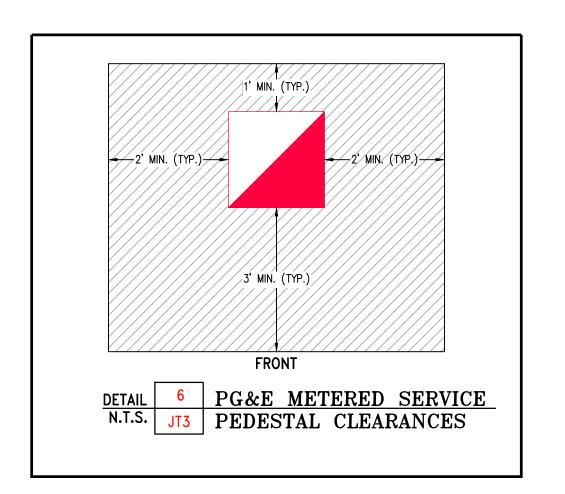


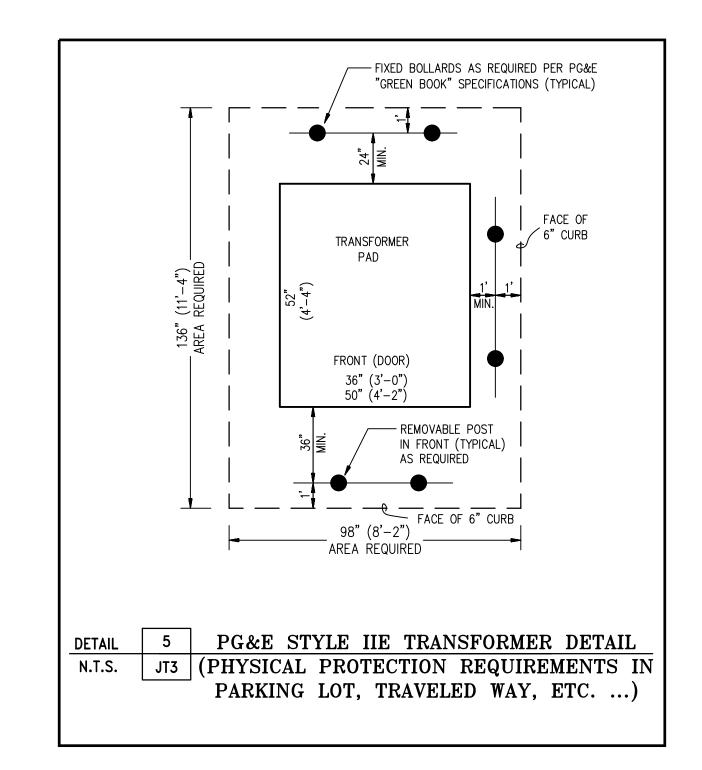


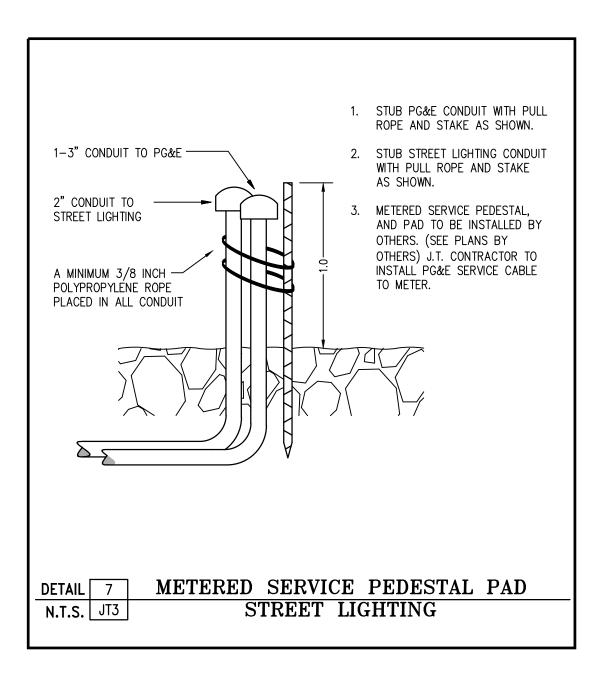










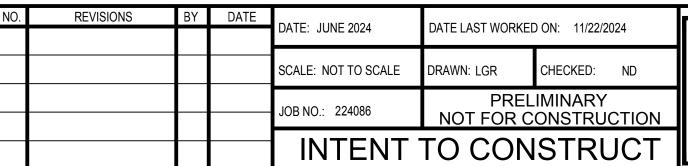


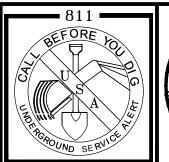




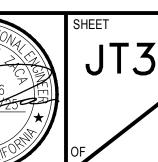
T-24 PGEE Gas Design ● PG&E Elec Design

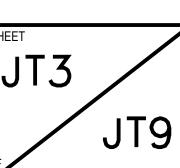
JOINT TRENCH DETAILS DENOVA HOMES RANCHO MEADOWS CALIFORNIA ANTIOCH

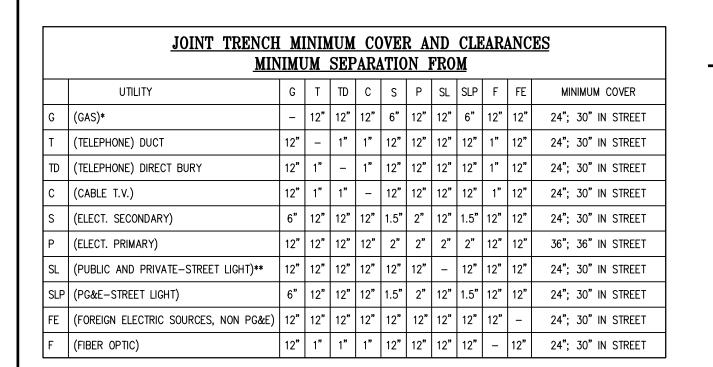


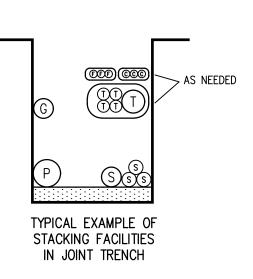


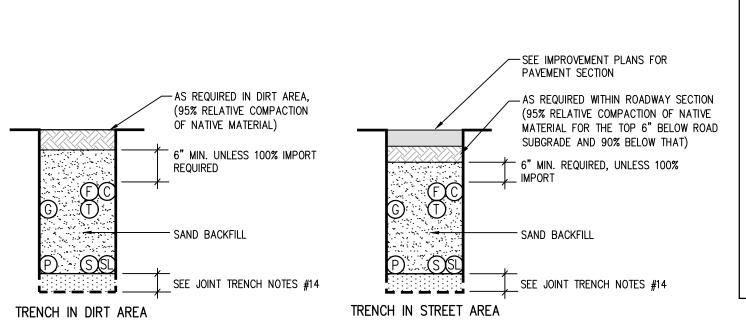


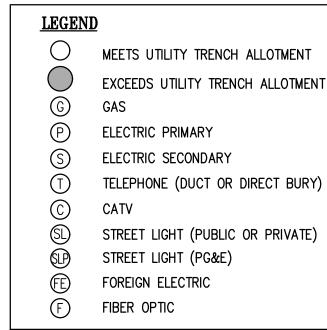










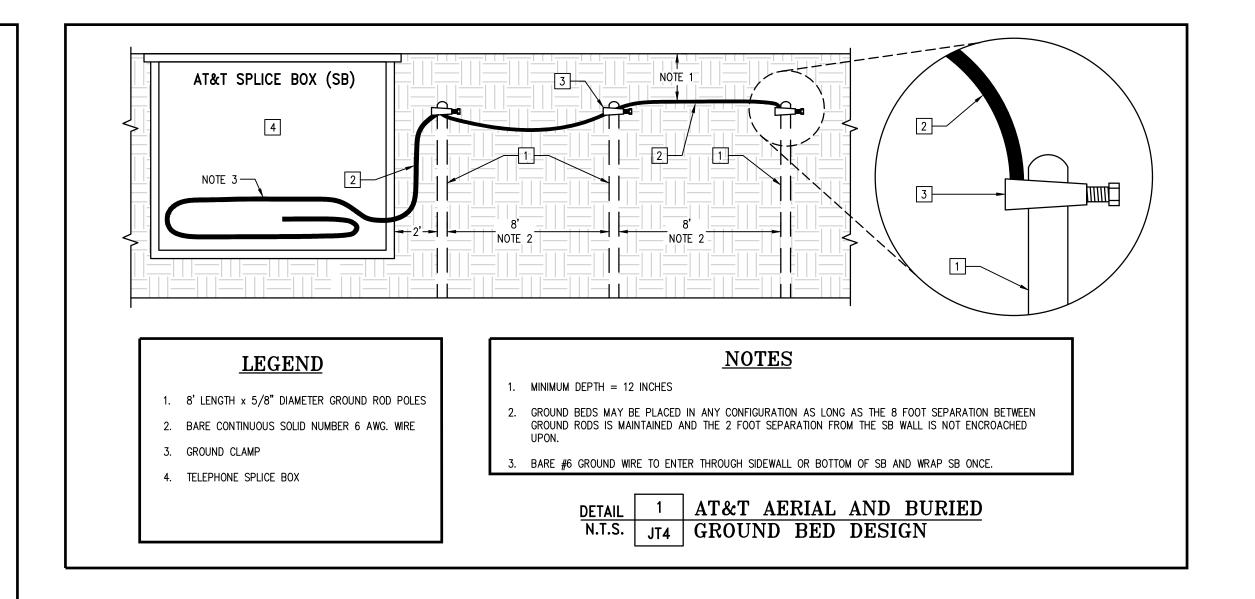


JOINT TRENCH NOTES:

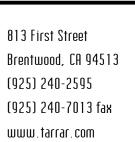
- TRENCH COVER & CLEARANCES SHOWN ARE MINIMUMS ONLY AND MAY REQUIRE ALTERATIONS TO SUIT FIELD CONDITIONS.
- 2. IT IS RECOMMENDED THAT ALL FACILITIES ARE TO BE A MINIMUM OF 12" BELOW SUB-BASE DISTURBANCE.
- 3. * WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, WHEN 4" O.D. OR SMALLER GAS PIPE IS INSTALLED, SEPARATION MAY BE REDUCED TO NOT LESS THAN 6" BETWEEN GAS AND COMMUNICATION DUCTS (TELEPHONE, C.A.T.V. & FIBER OPTIC).
- 4. * WHERE 6" GAS MAIN IS LOCATED IN THE JOINT TRENCH A 18" MINIMUM SEPARATION FROM GAS MAIN TO ALL UTILITIES WILL BE REQUIRED.
- 5. ** WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, STREET LIGHT SEPARATION MAY BE REDUCED TO 0" BETWEEN STREET LIGHT AND COMMUNICATION DUCTS (TELEPHONE, C.A.T.V. & FIBER OPTIC).
- TRENCH CONFIGURATIONS SHOWN ARE FOR INSTALLATION WHERE EACH OCCUPANT IS UTILIZING HIS ENTIRE SPACE ALLOCATION. OTHER CONFIGURATIONS OR REDUCED DIMENSIONS MAY BE USED, PROVIDED THAT MINIMUM COVER AND CLEARANCES ARE MAINTAINED.
- THE CONTRACTOR IS TO ADJUST TRENCH DEPTHS AT ALL JOINT TRENCH LATERAL CROSSINGS TO MAINTAIN REQUIRED CLEARANCES BETWEEN ALL PARTICIPATING UTILITIES.
- 8. TRENCH SECTIONS ARE SHOWN SCHEMATICALLY AND INDICATE AREAS OF OCCUPANCY ONLY; THEY DO NOT REFLECT SIZE OR QUANTITY OF FACILITIES TO BE INSTALLED.
- 9. TRENCH FOOTAGES PER SECTION ARE APPROXIMATE. SECTIONS ARE DESIGNED TO ACCOMMODATE ALL REQUIRED FACILITIES AS INDICATED ON EACH TRENCH PARTICIPANT'S CONSTRUCTION DRAWINGS.
- 10. THE CONTRACTOR SHALL VERIFY TRENCH FOOTAGES FOR ACCURACY PRIOR TO EXCAVATION AND TAKE NECESSARY PRECAUTION CROSSING WATER AND SEWER FACILITIES.
- 11. THE CONTRACTOR SHALL REFER TO THE COMPOSITE, CONDUIT, AND/OR EACH RESPECTIVE UTILITY INSTALLATION PLAN FOR THE NECESSARY CONDUIT CABLE AND/OR PIPE TO BE INSTALLED IN THIS PROJECT.
- 12. 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.
- . 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 AND MAINTAIN MINIMUM UTILITY CLEARANCES. ALL TRENCHES OVER 60" DEEP MUST COMPLY WITH OSHA REQUIREMENTS. (SEE THE JOINT TRENCH MINIMUM COVER AND CLEARANCE TABLE)
- CONTRACTOR SHALL USE SAND BEDDING AND SHADING AS REQUIRED BY THE UTILITY COMPANIES. THE BOTTOM OF THE TRENCH SHALL BE CLEARED OF ROCKS AND OTHER HARD SURFACES. DISTRIBUTION TRENCHES WITHOUT TELEPHONE CONDUIT DO NOT REQUIRE BEDDING MATERIAL. SERVICE TRENCHES WITHOUT TELEPHONE CONDUIT REQUIRE 2" SAND BEDDING AS A PAD ON WHICH UTILITY FACILITIES CAN REST. SERVICE TRENCHES CONTAINING TELEPHONE CONDUIT ONLY REQUIRE A 1" SAND BEDDING. ALL OTHER TRENCHES CONTAINING TELEPHONE CONDUIT REQUIRE A 3" SAND BEDDING. REFER TO PG&E GREEN BOOK PUBLICATION S5453, EXHIBIT B AND AT&T SPEC95 "AT&T SPECIFICATIONS" TRENCHING AND CONDUIT GUIDE FOR FURTHER INFORMATION.
- 15. ALL TRENCHING AND BACKFILLING TO BE DONE IN ACCORDANCE WITH THE CITY OF ANTIOCH ENGINEERING STANDARDS AND SPECIFICATIONS.
- 16. ALL PG&E, TELEPHONE, CABLE, AND FIBER OPTIC BOXES AND JOINT TRENCH FACILITIES ARE TO MAINTAIN A MINIMUM OF 3' SEPARATION FROM SEWER AND WATER LATERALS AND DRIVEWAYS. ALL UTILITY VAULTS, BOXES, PEDESTALS, ETC. MUST MAINTAIN A 5' MINIMUM CLEARANCE FROM FIRE HYDRANTS, AND 3' MINIMUM FROM STREETLIGHTS.

	JOINT TRENCH OCCUPANCY GUIDE																						
TRENCH SECTION	A*	B*	C*	D*	E*	F*	G*	H*	1	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	w
GAS	Х	Х	Х		Х				Х	Х	Х		Х	Х	Х		Х			Χ			
TELEPHONE	Х	Х		Х		Х			Χ	Х		Χ	Х	Χ		Х		Х			Х		
CABLE T.V.	Х		Х	Х			Х		Х		Х	Х	Х		Х	Х			Χ			Х	
ELECTRIC SEC.	Х	Х	Х	Х	Х	Х	Х	Х					Х	Х	Х	Х	Х	Х	Χ				Х
ELECTRIC PRI.	Х	Х	Х	Х	Х	Х	Х	Х															
FIBER OPTCS	Х	Х	х	х	Х	х	Х	Х	Х	Х	х	Х	х	Х	Х	Х	Х	Х	X	Х	Х	Х	

*THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY



THIS AREA RESERVED FOR JOINT TRENCH SECTIONS TO BE PLACED AT A LATER TIME





▶ PG&E Gas Design ▶PG&E Elec Design JOINT TRENCH SECTIONS AND DETAILS DENOVA HOMES RANCHO MEADOWS ANTIOCH CALIFORNIA

NO.	REVISIONS	BY	DATE	DATE: ILINE 2024	DATE ACT WORKED ON: 44/20/2024						
				DATE: JUNE 2024 DATE LAST WORKED ON: 11/20/2024							
				SCALE: NOT TO SCALE	DRAWN: LGR	CHECKED: ND					
				JOB NO.: 224086		IMINARY ONSTRUCTION					
				INTENT	TO CON	STRUCT					

