



## **20A CONVERSION PROCEDURE** **(Applies to 20A Conversions Only)**

20A Conversions are projects that use utility funds allocated to the Municipalities as a percentage of local revenue. The Municipalities decide which areas will be converted within the guidelines of Rule 20A.

### **A. General Information**

1. Projects to convert overhead lines to underground are usually large, complex and politically sensitive. SDG&E's assigned Liaison Planners' primary role is to manage all aspects of 20A projects, including coordinating with customers, municipalities and communication companies, as well as managing construction schedules and job costs through completion of construction. It is necessary for the Liaison Planner to be informed and involved in both active and proposed conversion projects.
2. Conversions are planned by the Underground Utility Advisory Committee (UUAC), which is a group of representatives from the Municipality, SDG&E and Communication Companies.
3. UUAC preparation of individual underground districts should start a minimum of 1 to 2 years prior to commencing construction.
4. Municipalities may use 20A funds for 20B and 20C engineering fees.
5. All SDG&E costs associated with the 20A project will be deducted from the municipality's allocation balance with the exception of system upgrades requested by SDG&E. If the Municipality requests a financial audit of a 20A Conversion, the request must be processed through the CPUC.
6. Once SDG&E provides the Municipality a copy of the trench route design, the Municipality has 60 days to review it for changes and accept it. If confirmation is not received within 60 days, SDG&E will assume it is accepted and continue with the design process. Engineering fees for re-design will be required for all municipal-initiated design changes requested after the conversion design has been accepted by the Municipality. Engineering fees, payable to SDG&E will be deducted from the Municipality's 20A Allocations at the completion of the conversion project.
7. SDG&E will review the existing overhead facilities within a proposed conversion boundary for prior land rights. If prior rights exist, SDG&E will create a Joint Use Agreement and identify an equivalent area, comparable in scope, to cover replacement with underground facilities at a mutually agreed upon area. SDG&E will inform the Municipality early in the conversion process so that the Municipality may provide this information to their City Council. Overhead removals may not begin until the Joint Use Agreement is signed and approved by the Municipality.
8. Temporary or permanent relocation of SDG&E facilities within an easement must be paid for by the Municipality, and may not be deducted from 20A allocations.
9. If the Municipality plans a Capital Improvement Project and decides to convert an existing distribution pole line in the Franchise area as part of the conversion instead of requesting the facilities to be relocated, SDG&E will provide the Municipality with an Avoided Cost Relocation credit. If the relocation is due to construction methods and/or temporary traffic routing conditions, no Avoided Cost Relocation credit will be applied. This does not apply to facilities within easements, even though the easement overlaps the franchise area.
10. 20A Conversion Designs are the design responsibility of SDG&E and are not available to be designed by an Applicant Designer.
11. The Municipality has the option to include the private property service trench and meter panel modifications on the 20A conversion project and have them paid by the 20A allocations, or the Municipality may require the property owner to be responsible. If the Municipality decides to include these costs in the 20A project, it must be stated in the Underground District Resolution.
12. After a 20A conversion is complete, the Municipality is responsible for a minimum of 5 years, for any relocation of SDG&E facilities within the conversion boundary.

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**B. Coordination of a New Business Development with Street Improvements and a 20A Conversion**

1. Resolution must be passed and SDG&E must receive a letter from the Municipality stating that an underground conversion district is in the process of being formed.
2. The letter should state that the Municipality will commit 20A allocations towards the project in 6/13/2013 partnership with the New Business Developer.
3. The Developer will install the trench, conduit and substructures, while the Municipality is responsible for the costs associated with cable, connections, equipment and overhead removals. (See C4 - Municipal Trenching for trench costs that will be reimbursed from the Municipality's 20A allocations) Rule 20B and 20C credits, such as equivalent overhead and depreciation, may not be used in conjunction with 20A funding.
4. As a condition of development, the Municipality has the option of requiring the developer to install trench, conduit and substructures at their expense.

**C. Procedure – 20A Conversions**

1. **Municipality will:**
  - 1.1. Provide a list and/or maps of proposed project(s).
  - 1.2. Participate with UUAC to provide a detailed review of the project, including the walk-through and preparation of the tentative boundary map. At the walk-through the Municipality representatives will review for existing road base conditions, street repaving and resurfacing req 12/18/2013 requirements, traffic plating requirements, traffic control requirements, traffic loops, proposed SDG&E crew working hours and working windows.
  - 1.3. Request a streamline cost estimate from SDG&E. The Municipality may request multiple estimates for work based on straight time and/or overtime hours.
  - 1.4. Prepare a preliminary boundary map, based on the tentative boundary map, review the streamline cost estimate, pass a Resolution of Intention to create an Underground District and set the date of the public hearing.
  - 1.5. Notify affected property owners, occupants, and utilities at least 30 days prior to the public hearing date. At the public hearing, oral and written testimony is taken and the governing body determines if the project is in the public interest. If the majority votes in favor, the district is formed.
  - 1.6. Notify the property owners and utilities of the conversion in writing, with a copy of the adopted resolution/ordinance and boundary map.
  - 1.7. If the Municipality has chosen to have the 20A allocations responsible for the private property service conversion work, distribute required "Permit to Enter" (PTE) forms to all property owners who will have their service modified. The Municipality will collect all copies and forward them to SDG&E. A copy must be retained by the entity performing the trenching. SDG&E will always require a copy of the PTE in order to modify electrical panels to accept underground. All PTEs must be returned to SDG&E before any construction work order is issued to construction.
  - 1.8. Report individual service panel inspection clearances to SDG&E.
  - 1.9. Be responsible for all necessary Municipal permits (e.g. Excavation, Encroachment and Traffic Control Plan Review), residential and commercial permit fees and their administrative expenses. These fees include collecting permit fees from individuals who modify service panels to accept underground service. Rule 20A funds may not be used to pay Municipal permit fees. Other routine Permits (e.g. Caltrans) are normal work and are a part of SDG&E normal overheads, and will not be directly charged to the project. Non-routine Permits (e.g. Railroads, Bore Permits) are directly charged to the project and will include SDG&E overheads.
  - 1.10. Notify property owners if a project is reactivated after being placed on hold or rescheduled.
  - 1.11. Provide SDG&E with a street light trench and conduit design based on SDG&E's Trench & Conduit Design, including designation of available service points.
  - 1.12. Notify SDG&E of its intent to acquire all necessary easements to SDG&E's specifications. (SDG&E to provide template). No direct credits are given for this; rather, the set fee per facility to acquire easements will not be charged to the project.

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**2. SDG&E will:**

- 2.1. Participate with UUAC in a detail review of the project, including the walk-through and preparation of the tentative boundary map. Walk-through activities will include suggestions as to cost-effective use of 20A allocations, possible exemptions for poles which are not cost-effective to underground, and identify SDG&E facility conflicts with the Americans with Disability Act (ADA).
- 2.2. Notify Municipality of possible unsafe existing meter panels. Municipality will notify and require property owners to upgrade or correct infractions of their electric meter panels at their personal expense.
- 2.3. Send a letter of confirmation identifying conflicts with ADA requirements to the Municipality. All conflicts will be cleared as part of the project.
- 2.4. Prepare and provide the Municipality with streamline cost estimates per work order level, including SDG&E overhead cost calculations. SDG&E will also verify the Municipality's allocation balance.
- 2.5. Review and approve preliminary boundary map and notify the Municipality by letter or email.
- 2.6. Work with the Municipality to determine which entity (SDG&E or Municipality) will provide the trench and conduit installation, based on SDG&E's electric design.
- 2.7. Send the Municipality a copy of the Conversion Services Worksheet with the typical "Permit to Enter" (PTE) form.
- 2.8. Submit the final Trench & Conduit job design, electronically in AutoCAD format, to the Municipality and Communication Companies. SDG&E will request Joint Trench Offers (JTO's) from the Communication Companies. The Municipality may use the job design, if desired, as a basis for their street lighting design layout.
- 2.9. Acquire necessary easements, unless notified beforehand of acquisition by the Municipality.
- 2.10. If SDG&E is trenching, determine, acquire, process and implement Storm Water Construction General Permits (Storm Water Pollution Prevention Plan, SWPPP), Archaeological/Cultural Permits and Environmental Permits. NOTE: Traffic Control Plans and Municipal Permits must be acquired by the trenching entity.
- 2.11. Establish a construction timeline and communicate this to the Municipality and joint trench participants, only if SDG&E is providing the trench.
- 2.12. Issue Trench & Conduit and Cable Pole Jobs to appropriate entities once PTE's, JTO's, Municipal Street Light Design, required easements and all necessary Permits including TCP's and Municipal Permits are acquired.
- 2.13. If SDG&E is performing the trenching and has elected to use an outside contractor for these activities, they will invite the Municipality to participate in a pre-bid meeting, if one is held. SDG&E will advise the Municipality of the bid amount, upon request. In this case, SDG&E will provide the Municipality an estimate of the total Trench & Conduit Job costs to be deducted from their 20A allocations.
- 2.14. A Street lighting as-built will be required prior to energizing any street lighting system, either utility-owned or municipally-owned.
- 2.15. Remove overhead facilities after underground cable job is energized and all services have been completely cut over to the new underground system. The Municipality may request a delay in removing the overhead system, if required, to maintain roadway lighting until the new underground light system is in place.
- 2.16. Update the Municipality of project expenditures, percentage of job completion and project status on a monthly basis. At the completion of the conversion project, expenditures may be broken down into the following categories: Labor, Material, and Equipment. All project-related costs must, by tariff, be deducted from the Municipality's allocations.

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3. **Entity responsible for providing trench will:**
- 3.1. Review and approve Joint Trench Offers. SDG&E will, as a courtesy, review JTO's for municipally-trenched jobs.
  - 3.2. As a courtesy, install municipally-supplied conduit for municipal owned street lighting system in the joint utility trench (LS-2 Rate). If SDG&E is performing trenching, the lighting conduit may not extend more than 5' beyond the joint trench and the Municipality must contract for the remaining trench and conduit installation along with the lighting installation. If the Municipality is trenching, additional trench to accommodate lighting MUST be broken out as a separate line item on bid documents, this is not subject to reimbursement by SDG&E.
  - 3.3. Organize Pre-Construction Meeting. Attendees should include: Municipal representatives, SDG&E (Liaison Planner, Conversion Designer, Field Operations Supervisor, Trench Inspector, Construction Services Contract Administrator, and Field Utility Specialist) and Joint Trench participants.
  - 3.4. Provide a trenching as-built to SDG&E. If SDG&E is performing trenching, the Municipality may request a meeting, at which time the entire conversion as-built may be reviewed, but not retained by the Municipality. If the conversion is being worked together with a Municipal Street Improvement Project, when requested, SDG&E will provide an as-built for specific areas of the street improvement. If the Municipality wishes to retain any documents regarding the installation, SDG&E will provide a copy of its electric facility maps and gas plats.
  - 3.5. Acquire Traffic Control Plans, Municipal Permits, Storm Water General Construction Permits (Storm Water Pollution Prevention Plan – SWPPP), Archaeological/Cultural Permits and Environmental Permits.
  - 3.6. Perform final walk through, attendees should include Municipal representatives (Residential Engineer), SDG&E (Liaison Planner, Construction Services Contract Administrator, Field Operations Supervisor, Trench Inspector).
4. **Municipal Trenching:**
- 4.1. If the Municipality decides to perform the trenching activities, they will be responsible for all costs related to administering and overseeing these activities. These responsibilities include:
    - 4.1.1. Pump, dewater and dispose of liquids from existing SDG&E manholes and handholes as required. Municipality has the option to use SDG&E's Haz-Mat Service to pump, transport, treat and dispose of possible contaminated water, these arrangements to be coordinated with the SDG&E Inspector. Costs for this service will be deducted from Municipality's 20A funds.
    - 4.1.2. Provide qualified electrical workers (standby) to dig near energized facilities and to install pull rope in conduits from energized facilities. SDG&E will provide contact information for contracting the Qualified Electrical Workers.
    - 4.1.3. Provide proper grade for the setting of facilities.
    - 4.1.4. Determine, acquire, process and implement: Traffic Control Plans, Municipal Permits, Storm Water General Construction Permits (Storm Water Pollution Prevention Plan – SWPPP), Archaeological/Cultural Permits and Environmental Permits.
  - 4.2. SDG&E will be represented by a Trench Inspector in the field.
  - 4.3. SDG&E will provide a "Not to Exceed" letter stating the maximum cost it will reimburse the Municipality for its work. The Municipality will submit to SDG&E its first, second and third acceptable bids for review and approval. If the contractor bids for Municipality exceed the "Not to Exceed" amount, SDG&E reserves the right to reject all municipal bids and may elect to do the electric conversion trench independently.
  - 4.4. The Municipality must incorporate SDG&E's General Conditions in its bid documents. In the event of inconsistency between the Municipal bid documents (Municipal General Conditions) and SDG&E's General Conditions, the most stringent shall prevail and will be subject to mutually agreed upon and negotiated benefits.

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- 4.5. SDG&E will reimburse the Municipality for the Trench & Conduit job worked by their contractor on a monthly schedule, or as agreed upon. The Municipality will request reimbursement by submitting an invoice to SDG&E and will forward their supporting documentation, including the actual amounts paid by the Municipality to their contractor. SDG&E will not advance funds prior to the activity taking place. SDG&E may also pay for field changes if preapproved by the Liaison Planner, appropriately documented, reasonable, and necessary for the conversion.
- 4.6. SDG&E may not reimburse the Municipality for administrative fees associated with its trenching activities, including contract preparation.
- 4.7. The amount deducted from the Municipality's 20A allocations will include the cost of all applicable SDG&E overheads in addition to the amount reimbursed to the Municipality for its activities. SDG&E will provide a rough estimate of expected overhead calculation amounts.

### Fact Sheet Subject to Change

\*Contact SDG&E Governmental Liaison Planner for Latest Revision

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## RATING SYSTEM FOR 20A PROJECTS

<u><b>RATING CATEGORY</b></u>	<u><b>POINTS</b></u>
<u>Average Daily Traffic (ADT) and Street Classification</u>	
• > 20,000 ADT	25
• Between 10,000 and 20,000 ADT	20
• < 10,000 ADT and classified as Arterial or Class I Collector	15
• < 10,000 ADT and classified as Class II or III Collector	10
<u>Location</u>	
• Adjacent to Civic, Scenic, Recreational or Historic Area OR	10
• Entrance to City or within ¼ mile of freeway interchange	10
<u>Relationship to Approved Undergrounding Districts/ Previously Undergrounded Facilities</u>	
• Project closes a link between approved underground districts and/ or previously undergrounded areas	10
• Project connects to an approved underground district or previously undergrounded area	5
<u>Concentration of Overhead Lines</u>	
• Light to moderate	5
• Heavy to full capacity	10
• Includes transmission lines	15
<u>Association with Public Construction: Road Widening, Reconstruction or Construction of Missing Street Improvements (such as sidewalks)</u>	
• Construction within two years; included in CIP	20
• Construction within two to five years; included in CIP	15
• Street has a Pavement Condition Index (PCI) between 25 and 50 and /or is recommended for overlay	10
• Street has been reconstructed or received an overlay during the past five years	(-10)
<u>R/W and Road Improvement Status</u>	
• Road has ultimate R/W and improvements	20
• Road has missing improvements but ultimate R/W	10
• Marginal R/W and improvements for undergrounding	0
• Inadequate R/W for undergrounding	(-20)
<b>TOTAL POSSIBLE POINTS</b>	<b>100</b>

## UUD ESTABLISHMENT DATA

UUD No.	Date Established	Resolution No.	Street	Limits	Initial Cost*	Completed Cost	Voltage	Length (LF)
<b>Completed Projects</b>								
121	5/11/1993	R 17110	F Street	Church Ave to Second Ave	\$ 420,000	\$ 631,630	12 KV	700 LF
122	4/28/1992	R 16605	Fourth Avenue	SR54 to E St	\$ 2,400,000	\$ 2,294,182	69 KV	3800 LF
123	10/27/1992	R 16846	E Street	Broadway to Fourth Ave	\$ 2,000,000	\$ 949,765	12 KV	2640 LF
123	10/27/1992	R 16846	E Street	Fourth Ave to Toyon Ln	Included in above	\$ 1,519,480	12 KV	4700 LF
126	1/9/1996	R 18177	Main Street	Industrial Blvd to Third Ave	\$ 1,450,000	\$ 1,437,578	12 KV	5800 LF
127	12/17/1996	R 18530	Palomar Street	Interstate 5 to Industrial Blvd	\$ 126,150	\$ 632,856	12 KV	1000 LF
128	1/28/2000	R 2000-020	Broadway	C St to E St	\$ 126,000	\$ 1,857,836	12 KV	2640 LF
129	10/22/1996	R 18467	Otay Lakes Rd.	Ridgeback Rd to Apache Dr	\$ 616,900	\$ 712,114	12 KV	4200 LF
130	1/11/2000	R 2000-018	Orange Ave	Fourth Ave to Palomar St	\$ 440,000	\$ 375,411	12 KV	1350 LF
131	1/25/2000	R 2000-027	Fourth Avenue	H St to L St	\$ 1,000,000	\$ 3,716,979	12 KV	5280 LF
132	12/5/2000	R 2000-447	Bonita Road (east to City limits) and Otay Lakes Road	Phase I: Bonita Rd to Camino del Cerro Grande	\$ 2,730,000	\$ 8,013,153	69 KV	5064 LF
133	1/22/2002	R 2001-445	Otay Lakes Road	Phase II: Camino del Cerro Grande to Ridgeback Rd	\$ 2,100,000	Included in above total	69 KV	7000 LF
134	12/10/2002	R 2002-509	Fourth Avenue	L Street to Orange Ave	\$ 1,150,000	\$ 5,976,421	12 KV	6600 LF
140	10/22/2002	R2002-402	East L Street	Monserate Ave to Nacion Ave	\$ 400,000	\$ 3,588,864	12 KV	4430 LF
**	4/25/2006	R2006-123	Quintard Street	Third Ave to Orange Ave	\$ 280,000	\$ 333,277	12 KV	1100 LF
			Bayfront Phase I	Sweetwater River to L St	\$ 14,000,000	\$ 20,400,000	138 KV	12000 LF
					\$ 29,239,050	\$ 52,439,546		
<b>In Progress Projects</b>								
141	10/17/2017	R 2017-193	F Street	Bay Blvd to Broadway	\$ 3,200,000	N/A	12 KV	2300 LF
					\$ 3,200,000			
<b>Established UUD Projects***</b>								
135	12/10/2002	R 2002-440	L Street	Broadway to Third Ave	\$ 2,500,000	N/A	12 KV	3900 LF
137	2/18/2003	R 2003-066	J Street	Broadway to Hilltop Dr	\$ 2,600,000	N/A	12 KV	4000 LF
138	2/11/2003	R 2003-051	J Street	Hilltop Dr to west of Lori Lane	\$ 4,500,000	N/A	12 KV	7000 LF
142	10/17/2017	R 2017-193	F Street	Broadway to Fourth Ave	\$ 1,700,000	N/A	12 KV	2650 LF
					\$ 11,300,000			
					\$ 43,739,050	\$ 52,439,546		76204 LF
								14.433 Miles

Date Established is the Council date of the Notice of Intent to form an Assessment District

\* Initial Design costs are based on SDG&E estimates provided at UUD establishment.

\*\*On the Bayfront, initial cost was for both Phase I and II and from the MOU.

\*\*\*Design and construction have not yet commenced.

20A ELIGIBILITY LIST RATINGS

Utility Poles on Arterials or Collectors									RATING POINTS								
UUD #	Street Name	From	To	ADT	FC	Distributi on Poles	69KV Transmis sion Lines	Length (Feet)	ADT	LOCATION (10-w/n 0.25mi; 5-w/n 1mi.)	RELATIONSHIPS TO UD'S	CONCENTRATION OVERHEAD LINES	ASSOC. WITH PW CONS.	ROW & ROAD IMP	25<PCI<50 (y/n)	TOTAL POINTS	
141	<b>F Street*</b>	Bay Blvd.	Broadway	8283	DP	✓		2300	10	10	10	5	15	10	n	60	
	Bay Boulevard	E Street	F Street	11196	C2	✓	✓	1420	20	10	5	15	0	10	n	60	
135	<b>L Street *</b>	Broadway	Third Avenue	14898	C1	✓		3960	20	5	10	5	0	20	n	60	
142	<b>F Street*</b>	Broadway	Fourth (Fig) Avenue	6229	DP	✓		2650	10	5	10	5	15	10	n	55	
138	<b>East J Street *</b>	Melrose Avenue	Floyd Avenue	7012	C2,3	✓		3260	10	5	5	5	0	20	y	10	55
	Bay Boulevard	I-5 Freeway SB Ramps	Palomar Street	3925	C2	✓	✓	3060	10	10	5	15	0	0	y	10	50
	I Street	Second Avenue	Hilltop Drive	9478	C3	✓		2640	10	0	5	5	0	20	y	10	50
	Bay Boulevard	J Street	I-5 Freeway Ramp	3925	C2	✓	✓	3490	10	10	5	15	0	10	n	50	
	Bay Boulevard	F Street	G Street	2615	C2	✓	✓	1300	10	10	5	15	0	10	n	50	
	Fifth Avenue	C Street	D Street	2224	C2	✓	✓	1320	10	5	0	15	0	20	n	50	
	Palomar Street	Broadway	Fifth Avenue	24920	C1	✓		1320	25	5	5	5	0	10	n	50	
	Naples Street	Broadway	Second Avenue	8219	C2	✓	✓	5280	10	0	5	15	0	10	y	10	50
	Melrose Avenue	East Rienstra Street	Main Street	3039	C2,3	✓		5000	10	10	5	5	0	20	n	50	
	Moss Street	Industrial Boulevard	Fourth Avenue	6041	C2,3	✓		4650	10	0	5	5	20	10	n	50	
	C Street	N Glover (Fourth) Avenue	Second Avenue	7915	C2	✓		2030	10	5	5	5	0	10	y	10	45
	Hilltop Drive	East J Street	L Street	7975	C2	✓		2700	10	5	5	5	0	10	y	10	45
	Fifth Avenue	I Street	L Street	4580	C2	✓		3960	10	5	5	5	0	20	n	45	
	Fifth Avenue	D Street	H Street	4794	C2	✓		5280	10	5	5	5	0	20	n	45	
	First Avenue	I Street	L Street	3123	C2	✓		3850	10	5	5	5	0	20	n	45	
	Palomar Street	Third Avenue	Hilltop Drive	7950	C1	✓		3960	15	0	5	5	(10)	20	y	10	45
	Moss Street	Fourth Avenue	Third Avenue	7002	C2,3	✓		1320	10	0	5	5	0	10	y	10	40
	East Oxford Street	Melrose Avenue	Nacion Avenue	3704	C3	✓		1800	10	5	0	5	0	10	y	10	40
	Nacion Avenue	Quail Place (Street)	Princess Manor Court	658	C3	✓		1000	10	5	0	5	0	20	n	40	
	Oleander Avenue	Palomar Street	Tamarack Street, north of	3679	C3	✓		6080	10	5	0	5	0	20	n	40	
	Bay Boulevard	Palomar Street	Anita Street	1872	C2	✓	✓	2220	10	10	5	15	0	0	n	40	
	Industrial Boulevard	L Street	Main Street	5462	C2	✓		7800	10	10	5	5	0	10	n	40	
	Third Avenue	D Street	E Street	8320	CB	✓		1320	10	0	5	5	0	20	n	40	
	Nacion Avenue	L Street	East Naples Street	6392	C3	✓		3140	10	10	5	5	0	10	n	40	
	Oleander Avenue	Jamul Court	Oxford Street	6108	C2,3	✓		2080	10	5	0	5	0	20	n	40	
	I Street	I-5	Second Avenue	9478	C2,3	✓		7350	10	10	5	5	(10)	20	n	40	
137	<b>J Street *</b>	Broadway	Fourth Avenue	11603	C3	✓		2660	20	10	5	5	0	0	n	40	
	Oxford Street	Tobias Dr	Hilltop Drive	3704	C2	✓		650	10	0	0	5	0	10	y	10	35
	D Street	Broadway	Fifth Avenue	3203	C2	✓	✓	1410	10	5	5	15	(10)	10	n	35	
138	<b>East J Street *</b>	Floyd Avenue	Lori Lane	7012	C2	✓		1000	10	5	5	5	(10)	20	n	35	
	Naples Street & East Naples Street	Second Avenue	Melrose Avenue	11542	C2	✓		5970	20	0	0	5	0	10	n	35	
	First Avenue	E Street	H Street	3123	C2	✓		3960	10	5	5	5	(10)	20	n	35	
	Melrose Avenue	L Street	East Quintard Street	3713	C2	✓		6340	10	10	0	5	0	10	n	35	
	Hilltop Drive	F Street	East J Street	7975	C2	✓		5280	10	5	5	5	0	10	n	35	
138	<b>East J Street *</b>	Hilltop Drive	Melrose Avenue	7012	C3	✓		3150	10	5	5	5	(10)	20	n	35	
	Bay Boulevard	D Street	E Street	none	N/A	✓	✓	1320	0	10	5	15	0	0	N/A	30	
	F Street	Second Avenue	Hilltop Drive	5054	C2	✓		2640	10	0	5	5	0	10	n	30	










Utility Poles on Arterials or Collectors									RATING POINTS							
UUD #	Street Name	From	To	ADT	FC	Distributi on Poles	69KV Transmis ion Lines	Length (Feet)	ADT	LOCATION (10-w/n 0.25mi; 5-w/n 1mi.)	RELATIONSHIPS TO UD'S	CONCENTRATION OVERHEAD LINES	ASSOC. WITH PW CONS.	ROW & ROAD IMP	25<PCI<50 (y/n)	TOTAL POINTS
	G Street	Woodlawn Avenue	Third Avenue	4271	C2	✓		5340	10	5	0	5	10	0	n	30
	East Palomar Street	Hilltop Drive	Nolan Avenue	7126	C1	✓		3960	15	0	0	5	(10)	20	n	30
137	J Street *	Fourth Avenue	Hilltop Drive	11603	C3	✓		5260	20	5	5	5	(10)	0	n	25
	Moss Street	Third Avenue	First Avenue	7002	C2	✓		2700	10	0	0	5	0	10	n	25
	D Street	Fifth Avenue	Third Avenue	3203	C2	✓		2640	10	5	5	5	(10)	10	n	25
	Second Avenue	Shirley Street, north of	L Street	4338	C2	✓		12200	10	5	5	5	0	0	n	25
	Hilltop Drive	L Street	Orange Avenue	7975	C1	✓		9010	15	5	0	5	(10)	10	n	25
	K Street	(I-5) Colorado Avenue	First Avenue	10697	C2	✓		8130	20	5	0	5	(10)	0	n	20
	Oxford Street	Fifth Avenue	Tobias Dr	3704	C2	✓		5900	10	0	5	5	0	0	n	20
	East Oxford Street	Hilltop Drive	Melrose Avenue	3704	C3	✓		3170	10	0	0	5	(10)	10	n	15
	Oxford Street	W CDS (Industrial Boulevard)	Broadway	8900	C2	✓		1820	10	0	0	5	(10)	0	n	5
							<b>TOTAL</b>	<b>192,050</b>								

Note: Does not include alleys or residential streets  
\* These districts have already been established.

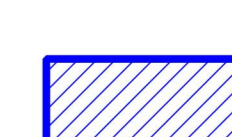
Updated: 10/10/2017

# City of Chula Vista Utility Undergrounding Projects

Public Works/Engineering Department  
Infrastructure Planning  
- DRAFT -


-  Transmission Substations
- Transmission Lines**
  -  069kV, OH
  -  069kV, UG
  -  138kV, OH
  -  City Boundary
- Utility Poles**
  -  All Other Streets
  -  Arterial/Collector Streets

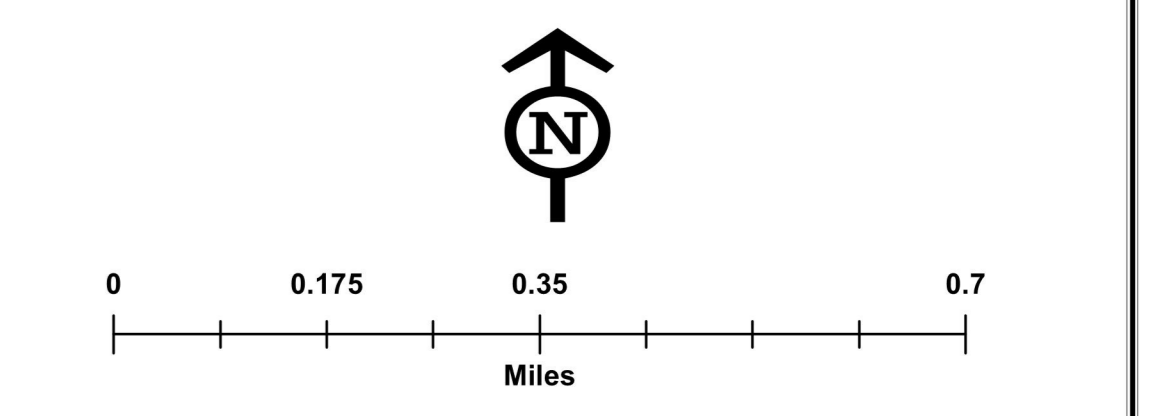
**Total Expended For Utility Undergrounding: \$30,359,632**  
**Total Expended Since 1995: \$33,555,852**

 **Finished Projects (Partial List)**

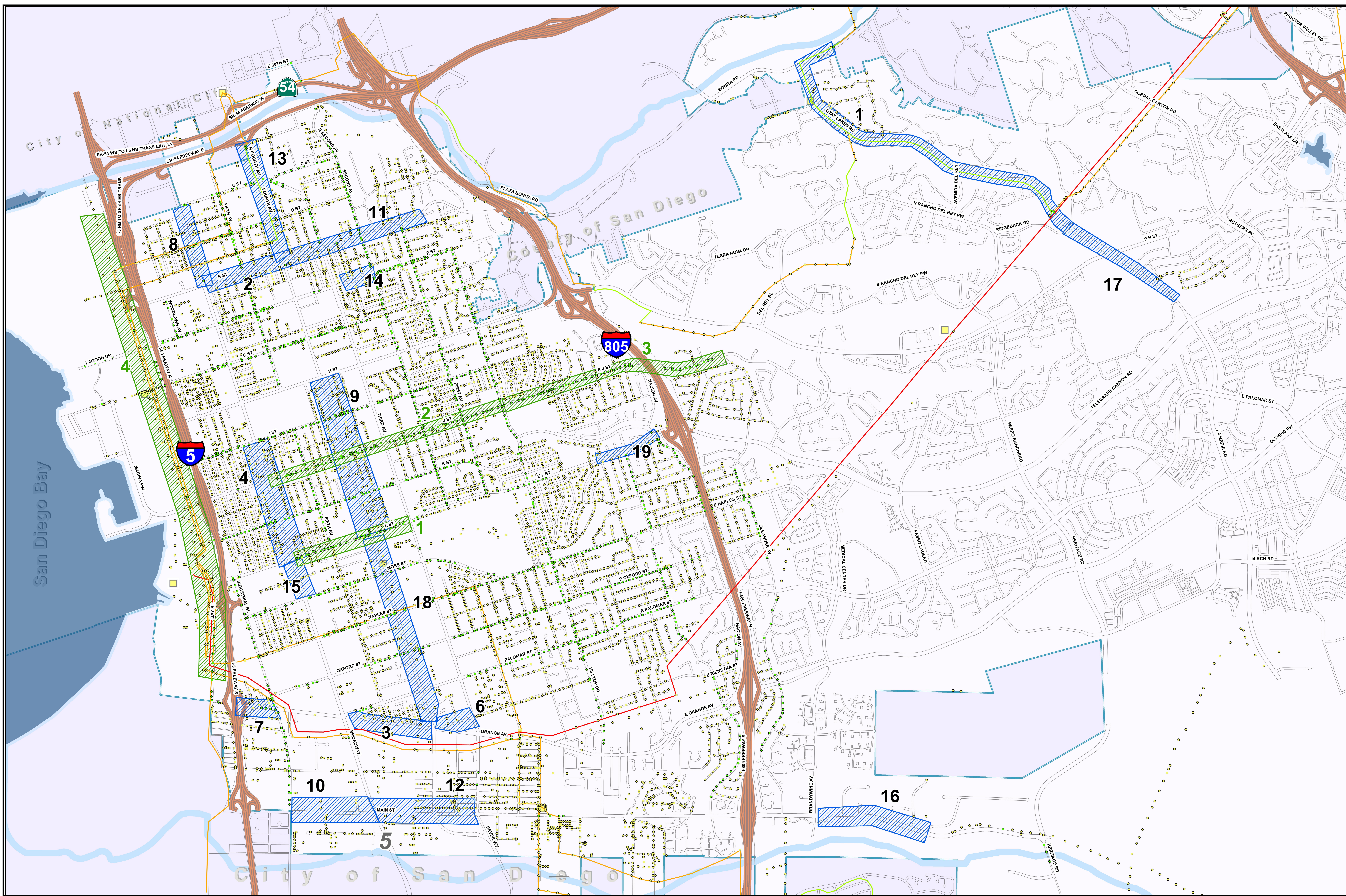
- |   |  |
|---|--|
| <b>1 (132) Otay Lakes Rd</b><br>Bonita Road to Ridgeback Rd<br>2006; \$8,013,153  | <b>11 (123) E Street</b><br>Fourth Ave. to Tonyon Lane<br>2001; \$1,519,480      |
| <b>2 (123) E Street</b><br>Broadway to Fourth Ave.<br>1998; \$949,765             | <b>12 (126) Main Street</b><br>Broadway to Third Ave.<br>2001; \$736,790         |
| <b>3 (130) Orange Ave.</b><br>Palomar St. to Fourth Ave.<br>2001; \$235,611       | <b>13 (122) Fourth Ave.</b><br>E St. to SR-54<br>1997; 2,294,182                 |
| <b>4 (117) Broadway</b><br>I Street to L Street<br>1995; \$638,734                | <b>14 (121) F Street</b><br>Church Ave. to Second Ave.<br>1996; \$631,630        |
| <b>5 (126) Main Street</b><br>Industrial Blvd. to Third Ave.<br>2002; \$1,436,978 | <b>15 (117) Broadway</b><br>Moss St. to L St.<br>1995; \$474,240                 |
| <b>6 (140) Quintard Street</b><br>Third Ave. to Orange Ave.<br>2005; \$333,277    | <b>16 (124) Otay Valley Rd</b><br>Brandywine to Nirvana<br>1997; \$638,734       |
| <b>7 (127) Palomar Street</b><br>I-5 to Industrial Blvd<br>2005; \$632,856        | <b>17 (129) Otay Lakes Rd</b><br>E. H St. to Apache Dr.<br>1999; \$712,114       |
| <b>8 (128) Broadway</b><br>C St. to E St.<br>2005; \$1,627,836                    | <b>18 (133) Fourth Avenue</b><br>L St. to Orange Ave.<br>2007; \$5,939,114       |
| <b>9 (131) Fourth Ave</b><br>H St. to L St.<br>2004; \$3,716,979                  | <b>19 (134) E. L Street</b><br>Monserate Ave to Nacion Ave.<br>2006; \$3,391,369 |
| <b>10 (126) Main Street</b><br>Industrial Blvd. to Broadway<br>2002; \$700,188    |  |

**Total Current Projects: \$25,600,579**

-  **Current Projects**
- |   |   |
|---|---|
| <b>1 (135) L Street</b><br>Broadway to Third Ave.<br>2010; \$2,009,000    | <b>3 (138) E. J Street</b><br>Hilltop Drive to Lost Lane<br>2015; \$1,553,320 |
| <b>2 (137) J Street</b><br>Broadway to Hilltop Drive<br>2014; \$2,038,259 | <b>4 Bayfront</b><br>Bayfront Undergrounding Project<br>2016; \$20,000,000    |



**Map Note:**  
The City of Chula Vista does not guarantee the accuracy of information contained on this map and cautions against the use of this data in making land use decisions.  
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**RULE 20**

Sheet 1

REPLACEMENT OF OVERHEAD WITH UNDERGROUND ELECTRIC FACILITIES

- A. The Utility will, at its expense, replace its existing overhead electric facilities with underground electric facilities along public streets and roads, and on public lands and private property across which rights-of-way satisfactory to the utility have been obtained by the Utility, provided that:
1. The governing body of the city or county in which such electric facilities are and will be located has:
    - a. Determined, after consultation with the Utility and after holding public hearings on the subject, that such undergrounding is in the general public interest for one or more of the following reasons:
      - (1) Such undergrounding will avoid or eliminate an unusually heavy concentration of overhead electric facilities;
      - (2) The street or road or right-of-way is extensively used by the general public and carries a heavy volume of pedestrian or vehicular traffic; and
      - (3) The street or road or right-of-way adjoins or passes through a civic area or public recreation area or an area of unusual scenic interest to the general public.
      - (4) The street or road or right-of-way is considered an arterial street or major collector as defined in the Governor's Office of Planning and Research General Plan Guidelines.
    - b. Adopted an ordinance creating an underground district in the area in which both the existing and new facilities are and will be located, requiring among other things, (1) that all existing overhead communication and electric distribution facilities in such district shall be removed, (2) that each property served from such electric overhead facilities shall have installed, in accordance with the Utility's rules for underground service, all electrical facility changes on the premises necessary to receive service from the underground facilities of the Utility as soon as it is available, and (3) authorizing the Utility to discontinue its overhead service.
  2. The Utility's total annual budgeted amount for undergrounding within any city or the unincorporated area of any county, shall be allocated as follows:
    - a. The amount allocated to each city and county in 1990 shall be the highest of:
      - (1) The amount allocated to the city or county in 1989, which amount shall be allocated in the same ratio that the number of overhead meters in such city or unincorporated area of any county bears to the total system overhead meters; or
      - (2) The amount the city or county would receive if the Utility's total annual budgeted amount for undergrounding provided in 1989 were allocated in the same ratio that the number of overhead meters in each city or the unincorporated area of each county bears to the total system overhead meters based on the latest count of overhead meters available prior to establishing the 1990 allocations; or

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**Lee Schavrien**  
Vice President  
Regulatory Affairs

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Resolution No. E-3767



**RULE 20**

REPLACEMENT OF OVERHEAD WITH UNDERGROUND ELECTRIC FACILITIES

A. 2. a. (Continued)

(3) The amount the city or county would receive if the Utility's total annual budgeted amount for undergrounding provided in 1989 were allocated as follows:

(a) Fifty percent of the budgeted amount allocated in the same ratio that the number of overhead meters in any city or the unincorporated area of any county bears to the total system overhead meters; and

(b) Fifty percent of the budgeted amount allocated in the same ratio that the total number of meters in any city or the unincorporated area of any county bears to the total system meters.

b. Except as provided in Section 2.c., the amount allocated for undergrounding within any city or the unincorporated area of any county in 1991 and later years shall use the amount actually allocated to the city or county in 1990 as the base, and any changes from the 1990 level in the Utility's total annual budgeted amount for undergrounding shall be allocated to individual cities and counties as follows:

(1) Fifty percent of the change from the 1990 total budgeted amount shall be allocated in the same ratio that the number of overhead meters in any city or unincorporated area of any county bears to the total system overhead meters.

(2) Fifty percent of the change from the 1990 total budgeted amount shall be allocated in the same ratio that the total number of meters in any city or the unincorporated area of any county bears to the total system meters.

c. When a city incorporates, resulting in a transfer of Utility meters from the unincorporated area of a county to the city, there shall be a permanent transfer of a prorata portion of the county's 1990 allocation base referred to in Section 2.b. to the city. The amount transferred shall be determined:

(1) Fifty percent based on the ratio that the number of overhead meters in the city bears to the total system overhead meters; and

(2) Fifty percent based on the ratio that the total number of meters in the city bears to the total system meters.

When territory is annexed to an existing city, it shall be the responsibility of the city and county affected, in consultation with the utility serving the territory, to agree upon an amount of the 1990 allocation base that will be transferred from the county to the city; and thereafter to jointly notify the Utility in writing.

(Continued)

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**RULE 20**

REPLACEMENT OF OVERHEAD WITH UNDERGROUND ELECTRIC FACILITIES

A. 2. (Continued)

d. However, Section 2 a, b and c shall not apply to any Utility where the total amount available for allocation under Rule 20-A is equal to or greater than 1.5 times the previous year's statewide average on a per customer basis. In such cases, the Utility's total annual budgeted amount for undergrounding within any city or the unincorporated area of any county shall be allocated in the same ratio that the number of overhead meters in the city or unincorporated area of any county bears to the total system overhead meters.

e. Upon request by a city or county, the amounts allocated may be exceeded for each city or county by an amount up to a maximum of five years' allocation at then-current levels where (the Utility) establishes that participation on a project is warranted and resources are available. Such allocated amounts may be carried over for a reasonable period of time in communities with active undergrounding programs. In order to qualify as a community with an active undergrounding program the governing body must have adopted an ordinance or ordinances creating an underground district and/or districts as set forth in Section A.1.b. of this Rule. Where there is a carry-over or additional requested participation, as discussed above, the Utility has the right to set, as determined by its capability, reasonable limits on the rate of performance of the work to be financed by the funds carried over. When amounts are not expended or carried over for the community, to which they are initially allocated, they shall be assigned when additional participation on a project is warranted or be reallocated to communities with active undergrounding programs.

3. The undergrounding extends for a minimum distance of one block or 600 feet, whichever is the lesser.

Upon request of the governing body, the Utility will pay from the existing allocation of that entity for:

a. The installation of no more than 100 feet of each customer's underground electric service lateral occasioned by the undergrounding; and/or

b. The conversion of a customer's meter panel to accept underground service occasioned by the undergrounding, excluding permit fees.

The Utility or the governing body may establish a lesser allowance, or may otherwise limit the amount of money to be expended on a single customer's electric service, or the total amount to be expended on all electric service installations in a particular project.

4. The Utility may, at its sole discretion, enter into agreements with a governing body of a city or county to reduce the amount of funding for undergrounding of overhead facilities (see Form 142-1659). The governing body will, at the time of entry into the agreement, be entitled to an agreement for a minimum of one (1) year or as long as five (5) years. Upon entry into the agreement, any specific projects that the governing body and the Utility have previously agreed to will not be subject to the agreement. Any expenses incurred by the Utility due to performance of agreements, as set forth in this sub-section, shall be booked as normal Utility expenses.

(Continued)

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**RULE 20**

Sheet 4

REPLACEMENT OF OVERHEAD WITH UNDERGROUND ELECTRIC FACILITIES

- B. In circumstances other than those covered by A. above, the Utility will replace its existing overhead electric facilities with underground electric facilities along public streets and roads or other locations mutually agreed upon when requested by an applicant or applicants when all of the following conditions are met:
1. a. All property owners served from the overhead facilities to be removed, first agree in writing to have the wiring changes made on their premises so that service may be furnished from the underground distribution system in accordance with the Utility's rules, and that the Utility may discontinue its overhead service upon completion of the underground facilities, or
  - b. Suitable legislation is in effect requiring such necessary wiring changes to be made and authorizing the Utility to discontinue its overhead service.
  2. The applicant has:
    - a. Furnished and installed the pads and vaults for transformers and associated equipment, conduits, ducts, boxes, pole bases, and performed other work related to structures and substructures including breaking of pavement, trenching, backfilling, and repaving required in connection with the installation of the underground system, all in accordance with the Utility's specifications, or, in lieu thereof, paid the Utility to do so;
    - b. Transferred ownership of such facilities, in good condition, to the Utility; and
    - c. Paid a nonrefundable sum equal to the excess, if any, of the estimated costs, including transformers, meters and services, of completing the underground system and building a new equivalent overhead system.
  3. The area to be undergrounded includes both sides of a street for at least one block or 600 feet, whichever is the lesser, and all existing overhead communication and electric distribution facilities within the area will be removed.
  4. The Utility may, when requested and authorized by the city or county and mutually agreed upon by such government entity and the Utility, initially fund any required engineering/design costs for conversion projects under this section. In the event such a project proceeds, the requesting city or county shall reimburse the Utility for such engineering/design costs before the Utility shall be required to commence further work on the project. In the event the project is not approved to proceed within two and one-half years of the Utility's delivery of such engineering/design study, the requesting city or county shall reimburse the Utility for its costs of such engineering/design study within 90 days of a demand by the Utility. In the event a city or county does not reimburse the Utility within 90 days of its demand for reimbursement, the Utility will be permitted to expense such costs as an operational cost and shall reduce the city or county's allocations provided under Section A of this Schedule by the like amount.
  5. The removal of overhead facilities shall be completed by the Utility at their expense.

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**RULE 20**

Sheet 5

REPLACEMENT OF OVERHEAD WITH UNDERGROUND ELECTRIC FACILITIES

- C. In circumstances other than those covered by A. or B. above, when mutually agreed upon by the Utility and an applicant, overhead electric facilities may be replaced with underground electric facilities, provided the applicant requesting the change pays in advance, a nonrefundable sum equal to the estimated cost of the underground facilities less the estimated net salvage value and depreciation of the replaced overhead facilities. Underground services will be installed and maintained as provided in the Utility's rules applicable thereto.
  
- D. The term "underground electric system" means an electric system with all wires installed underground, except those wires in surface mounted equipment enclosures.

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