Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Jason Arias
Title: Planner
Dated: 05/09/2016

Question 11:

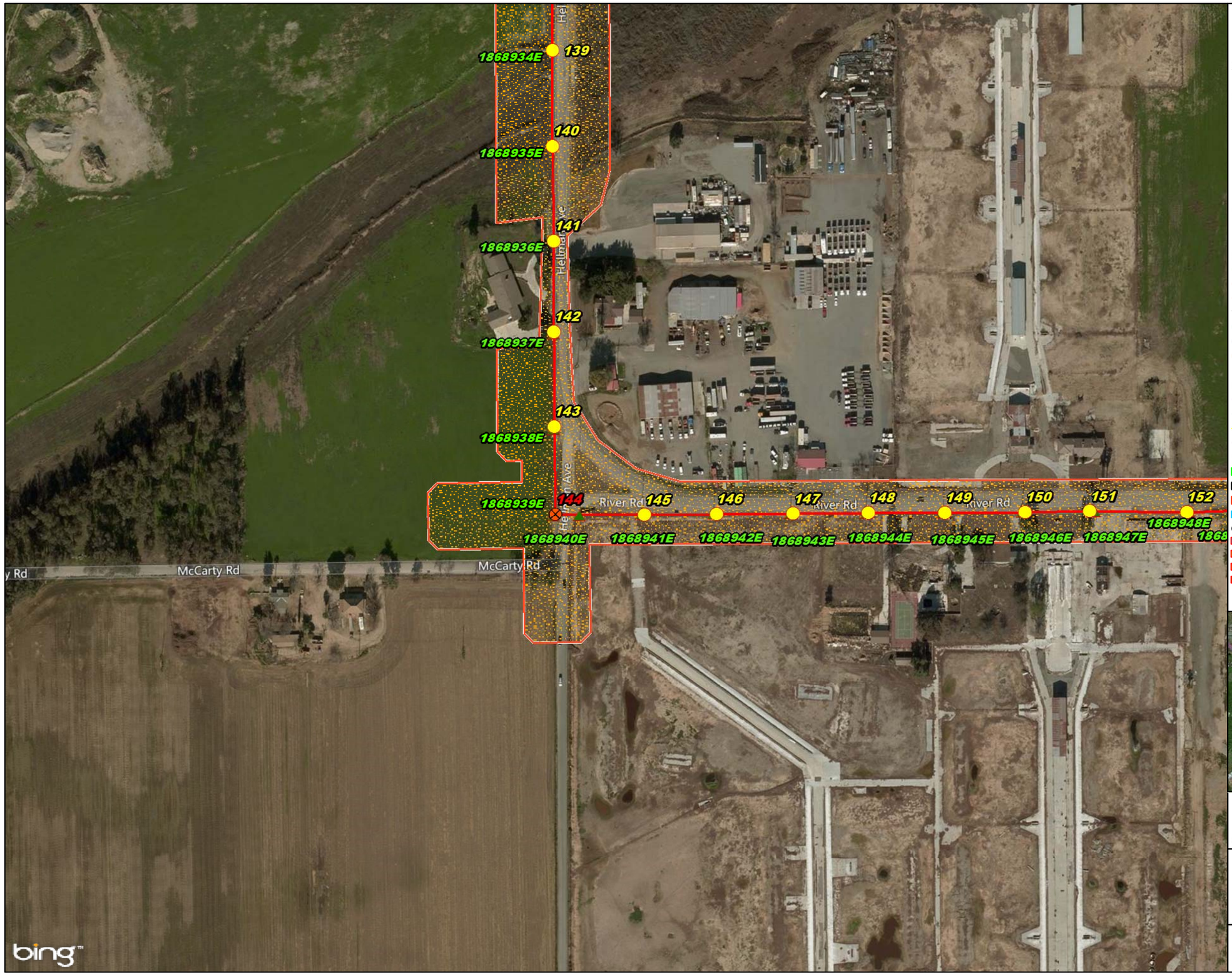
SCE's stripmaps dated 2/1/2016, indicate that proposed pole 144 would replace existing poles 1868939E and 1868940E, and that proposed pole 145 would replace existing pole 1868942E. Please confirm whether or not there is an existing pole 1868941E that would be replaced by the Proposed Project .

Response to Question 11:

There is an error on the strip map, the correct relationships are as follows: proposed pole 144 will replace existing poles 1868939E and 1868940E, proposed pole 145 will replace existing pole 186941E, and proposed pole 146 will replace existing pole 186942E. Please see attached corrected strip map.

CIRCLE CITY PROJECT

Proposed Project Stripmaps



Legend

- Potential Staging Yard

Subtransmission Structure

- Existing, LWS, TSP
- Proposed, H-FRAME
- Proposed, LWS
- Proposed, TSP
- Proposed, Vault
- Proposed, Wood Pole
- Remove, Poles; Remove, Wood Pole

Subtransmission Structure: Alternative 1 Extension

- Proposed, LWS
- Proposed, TSP

Subtransmission Conductors

- Alternative, OH, Alternative 1 Extension
- Proposed, OH
- Proposed, UG

Telecommunication Lines

- Existing, OH
- Proposed, OH
- Proposed, UG
- Distrbution Vaults

Distribution Lines

- Convert 4kv to 12kv, OH
- Relocate 12kv and 33kv, OH
- Relocate 12kv and 33kv, UG
- Remove 4kv, OH

Substation Area

- Alternative, Boundary
- Existing, Boundary
- Proposed, Boundary
- Existing Right Of Way

Civil Access Road Areas

- Existing, Permanent, Access and Spur Roads
- Existing, Temporary, Construction Areas for Access Roads
- Proposed, Permanent, Access and Spur Roads
- Proposed, Temporary, Construction Areas for Access Roads

N

0 100 200 400

Feet

1 in = 200 feet

Date: 5/16/2016
File Name: CircleCity_Stripmaps_Project_20160201.mxd
Version #: 01

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Path: P:\PROJECTS\MPO_Projects\Circle City Substation Project\Maps\Stripmaps\Project\CircleCity_Stripmaps_Project_20160201.mxd

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Pascual Garcia
Title: Project Manager
Dated: 05/09/2016

Question 12:

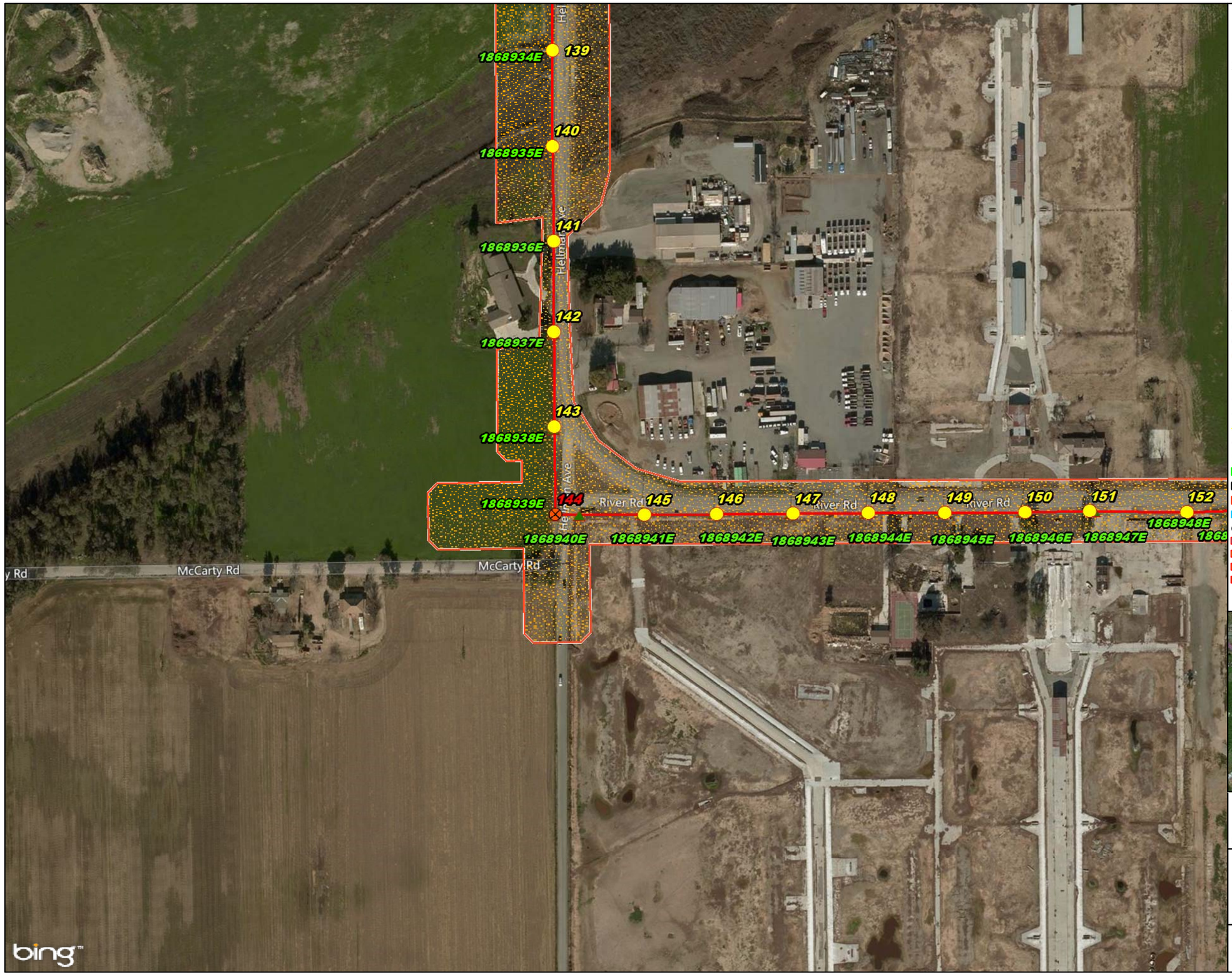
Page 17 of SCE's stripmaps dated 2/1/2016, indicate that proposed pole 151 would replace existing pole 1868948E; however, page 18 indicates that this existing pole would be replaced by proposed pole 152. Review of Google Earth satellite images indicate that there are existing poles at each of these proposed pole locations. Please confirm which existing pole would be replaced by proposed pole 151, and which existing pole would be replaced by proposed pole 152.

Response to Question 12:

Proposed pole 151 will replace existing pole 1868947E. Proposed pole 152 will replace 1868948E. Please see attached corrected strip map.

CIRCLE CITY PROJECT

Proposed Project Stripmaps



Legend

- Potential Staging Yard

Subtransmission Structure

- Existing, LWS, TSP
- Proposed, H-FRAME
- Proposed, LWS
- Proposed, TSP
- Proposed, Vault
- Proposed, Wood Pole
- Remove, Poles; Remove, Wood Pole

Subtransmission Structure: Alternative 1 Extension

- Proposed, LWS
- Proposed, TSP

Subtransmission Conductors

- Alternative, OH, Alternative 1 Extension
- Proposed, OH
- Proposed, UG

Telecommunication Lines

- Existing, OH
- Proposed, OH
- Proposed, UG
- Distrbution Vaults

Distribution Lines

- Convert 4kv to 12kv, OH
- Relocate 12kv and 33kv, OH
- Relocate 12kv and 33kv, UG
- Remove 4kv, OH

Substation Area

- Alternative, Boundary
- Existing, Boundary
- Proposed, Boundary
- Existing Right Of Way

Civil Access Road Areas

- Existing, Permanent, Access and Spur Roads
- Existing, Temporary, Construction Areas for Access Roads
- Proposed, Permanent, Access and Spur Roads
- Proposed, Temporary, Construction Areas for Access Roads

N

0 100 200 400

Feet

1 in = 200 feet

Date: 5/16/2016
File Name: CircleCity_Stripmaps_Project_20160201.mxd
Version #: 01

Features depicted herein are planning level accuracy, and intended for informational purposes only. Distances and locations may be distorted at this scale. Always consult with the proper legal documents or agencies regarding such features. Real Properties Department

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Path: P:\PROJECTS\MPO_Projects\Circle City Substation Project\Maps\Stripmaps\Project\CircleCity_Stripmaps_Project_20160201.mxd

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Paul McCabe
Title: Project Manager - Electric System Planning
Dated: 05/09/2016

Question 13:

PEA pages 3-10 and 3-11 say that additional electrical distribution circuits would be constructed from the proposed Circle City Substation to serve electrical demand on an as-needed basis. What is a reasonable maximum number of such circuits? Would they be constructed using similar techniques as the previous six?

Response to Question 13:

As explained in Section 3.1.2 Distribution Getaway, at ultimate build out, the proposed Circle City Substation could accommodate sixteen 12 kV distribution circuits. The PEA identifies that SCE proposes to initially construct six underground distribution circuit getaways to provide egress from the substation property. SCE has identified that there would be four new 12 kV distribution circuits installed as part of the initial construction of the project which would utilize the underground getaways. Any future construction of additional 12 kV distribution circuits would occur in a similar manner to those included in the proposed project.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Pascual Garcia
Title: Project Manager
Dated: 05/09/2016

Question 14:

Will a temporary batch plant be used to improve existing or construct proposed roads or for any other proposed work? If so, where would it/they be staged and what would the water source and estimated demand be?

Response to Question 14:

A temporary batch plant is not anticipated for this project.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Kashif Siddiqir
Title: Project Engineer
Dated: 05/09/2016

Question 15:

Regarding the proposed roads, the PEA indicates that new roads typically would have circular turnaround areas near the structure locations. What diameter is typical?

Response to Question 15:

The circular turnaround areas near the structure locations will be approximately 95 feet in diameter.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Kashif Siddiqi
Title: Project Engineer
Dated: 05/09/2016

Question 16:

Please estimate a reasonable maximum amount of gravel or crushed rock anticipated for use (by truck load would be fine). From what potential sources? Please provide sufficient information about this material to allow evaluation of traffic and air quality emissions associated with delivery/removal transport.

Response to Question 16:

Per PEA Chapter 3, Table 3-1, the estimated maximum amount of gravel or crushed rock anticipated for use will be approximately 2,005 cubic yards, which equates to approximately 250 truck loads. The rock would come from a local quarry, such as Corona Rock and Asphalt in Corona, which is within a 5 mile radius of the site.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Alisa Krizek
Title: Environmental Project Manager
Dated: 05/09/2016

Question 17:

Please provide details about the electrical generator(s) proposed for use, including the times of day, duration, and locations of use.

Response to Question 17:

Existing distribution facilities are available to provide temporary power at all potential staging yards. Small electrical generators (<49 hp) may be used intermittently to power small hand tools.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Anjeanette Barrett
Title: Manager Project / Product 1
Dated: 05/09/2016

Question 18:

Please provide a version of PEA Table 3-3 that includes identification of APNs for the potential staging yard locations and their current use.

Response to Question 18:

Please see the attached file, for the addition to the Table Assessor's Parcel Numbers for the potential staging yard locations and their current use.

Table 3-3: Potential Staging Yards Locations			
Staging Yard Number	**Assessor's Parcel Number**	**Location**	**Condition**
1	107-060-029	Circle City Substation	Vacant Land; Graded Property
2	0218-171-10; 0218-171-17	Mira Loma Substation	Commercial, Substation Property; Previously Disturbed
3	0218-171-19; 0218-171-20	Hamner Avenue	Vacant Land / Field
4	1057-212-17	Hellman Avenue	Vacant Land / Field
5	107-050-032	South Temescal Street	Vacant Land / Field
6	0113-361-62	Ontario Service Center	Service Center; Previously Disturbed
7	113-020-009	Jefferson Substation	Substation Property; Previously Disturbed

Approximate Size (acres)
5-8
3
3
5
5
1
0.5

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Pascual Garcia
Title: Project Manager
Dated: 05/09/2016

Question 19:

The "Remove existing wood pole and replace with LWS pole" row under Source Line Routes in PEA Table 4-4 includes table notes 1 through 3; however, table note 2 makes reference to foundation installations, which the PEA indicates are not required for LWS pole installations. Also, table note 2 indicates that there would be permanent disturbance within 25 feet of the pole, but the permanent disturbance column shows no disturbance for this row. Please clarify the correct disturbance amounts and table notes for this row.

Response to Question 19:

The PEA Table 3-4 notes 1 and 2 have been revised as follows:

[1] Includes the removal of existing conductor, teardown of existing structure, and removal of foundation (applicable to TSPs only) 2 feet below ground surface.

[2] Includes ~~foundation installation,~~ structure assembly and erection, conductor installation, and foundation installation (applicable to TSPs only); area would be restored after construction. A portion of the ROW beneath and within 25 feet of the structure would remain permanently disturbed and cleared of vegetation.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Pascual Garcia
Title: Project Manager
Dated: 05/09/2016

Question 20:

The "Construct new LWS pole" row under Source Line Routes in PEA Table 4-4 includes table note 4; however, table note 2 makes reference to foundation installations, which the PEA indicates are not required for LWS pole installations. Please clarify the correct table note(s) for this row.

Response to Question 20:

The PEA Table 3-4 note 2 has been revised as follows:

[2] Includes ~~foundation installation,~~ structure assembly and erection, conductor installation, and foundation installation (applicable to TSPs only); area would be restored after construction. A portion of the ROW beneath and within 25 feet of the structure would remain permanently disturbed and cleared of vegetation.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Joe Bryant
Title: Construction Project Manager
Dated: 05/09/2016

Question 21:

The PEA indicates that temporary power would be in place for the duration of construction at the substation site. Please confirm that the poles and other infrastructure required to provide this temporary power would remain in place to provide power to the substation during the operation and maintenance period.

Response to Question 21:

Temporary power would only be for construction activities. The power at the substation during normal operation and maintenance would be provided power via permanent station light and power.

The temporary power poles and related equipment would be removed when construction activity at the site is completed.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Pascual Garcia
Title: Project Manager
Dated: 05/09/2016

Question 22:

The PEA indicates that TSP sections could be spot-welded together to provide additional stability. Is there any reasonable basis not to assume that welding could occur at any/all TSP locations?

Response to Question 22:

Yes it is possible that welding could occur at any TSP location, however SCE does not anticipate that all TSPs will require welding, that will depend on final engineering, assembly tolerances, and existing field conditions at time of construction.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Pacual Garcia
Title: Project Manager
Dated: 05/09/2016

Question 23:

Stringing and pull sites deflection points could extend outside of SCE's existing ROW. What is the reasonable maximum distance that they could do so?

Response to Question 23:

The reasonable maximum distance from a structure should not exceed three times the structure height, location of the structure within the ROW will determine how much of the stringing area extends outside of the existing ROW; temporary construction easements will be obtained from the property owners of these areas.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Pascual Garcia
Title: Project Manager
Dated: 05/09/2016

Question 24:

Regarding guard structures, please explain how temporary netting would be installed, if used.

Response to Question 24:

As a general practice SCE does not use netting due to the multiple highway interruptions required to install the netting. However, if temporary netting is required by the California Highway Patrol or other jurisdictional agency, it is installed by pulling safety wire across the highway and attaching it to each of the guard structures on either side of the highway, then the netting is attached to the safety wire and extended over and across the highway.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Pascual Garcia
Title: Project Manager
Dated: 05/09/2016

Question 25:

Please confirm whether any non-trenching construction techniques would be required for underground subtransmission line installation across existing facilities or features (e.g., railroad). If yes, provide descriptions of those techniques and where they would be implemented.

Response to Question 25:

To install the proposed underground 66-kV subtransmission line, SCE would typically use the open-cut trenching technique, unless alternate methods are required to cross existing facilities or sensitive resources. An alternate method would be horizontal boring (jack-and-bore). SCE anticipates that horizontal boring may be required at the railroad crossing on Magnolia Avenue and Grand Boulevard.

Horizontal boring is a drilling operation that pushes a casing through the earth under a facility or feature being crossed, while simultaneously removing the spoils inside the casing with a rotating auger. Boring operations would begin by excavating large bore pits at the sending and receiving ends of the bore. After establishing the bore pits, the boring equipment would be delivered to the site and then installed into the bore pit at the sending end. Depending on the soil conditions, boring operations may require water to lubricate the auger. The casings would be installed at least 3 to 4 feet below the feature that would be crossed, or as required by the permitting agency. Once the casing is in place, the construction crew would install the underground duct bank by using spacers to hold the conduits in place and backfill the remaining space with a slurry mix. The casing would be left in place to protect the underground duct bank. A temporary construction area would be required for horizontal boring operations of approximately 150 feet by 150 feet at each bore pit location. Boring and receiving pits would typically measure 20 feet by 40 feet with depths between 10 feet and 20 feet, depending on the facilities or features that would be crossed. SCE would obtain the necessary ministerial permits to conduct this specialized technique and would implement standard BMPs in compliance with the SWPPP for the proposed project. Following the duct bank installation, the crew would backfill the bore pits with native materials and cover the duct bank with at least 36 inches of engineered or native fill, as appropriate. Any excess soil material would be hauled off site and disposed of at an approved disposal facility.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Kashif Siddiqi
Title: Project Engineer
Dated: 05/09/2016

Question 26:

Please clarify whether the fiber optic cables would be installed within the same duct bank as the subtransmission line, with the exception of near Corona Substation where the fiber line would be installed in an existing duct bank.

Response to Question 26:

The fiber optic cables would be installed within the same duct banks as the subtransmission line, except as follows:

- Near Corona Substation,
- On Magnolia Ave between Compton Ave and Rimpau Avenue (where there are existing underground duct banks)
- The proposed Circle City Substation along Leeson Ln and going into the Substation (SCE will follow the Distribution getaways)

Figure 200–1: Typical 69 kV Duct Bank

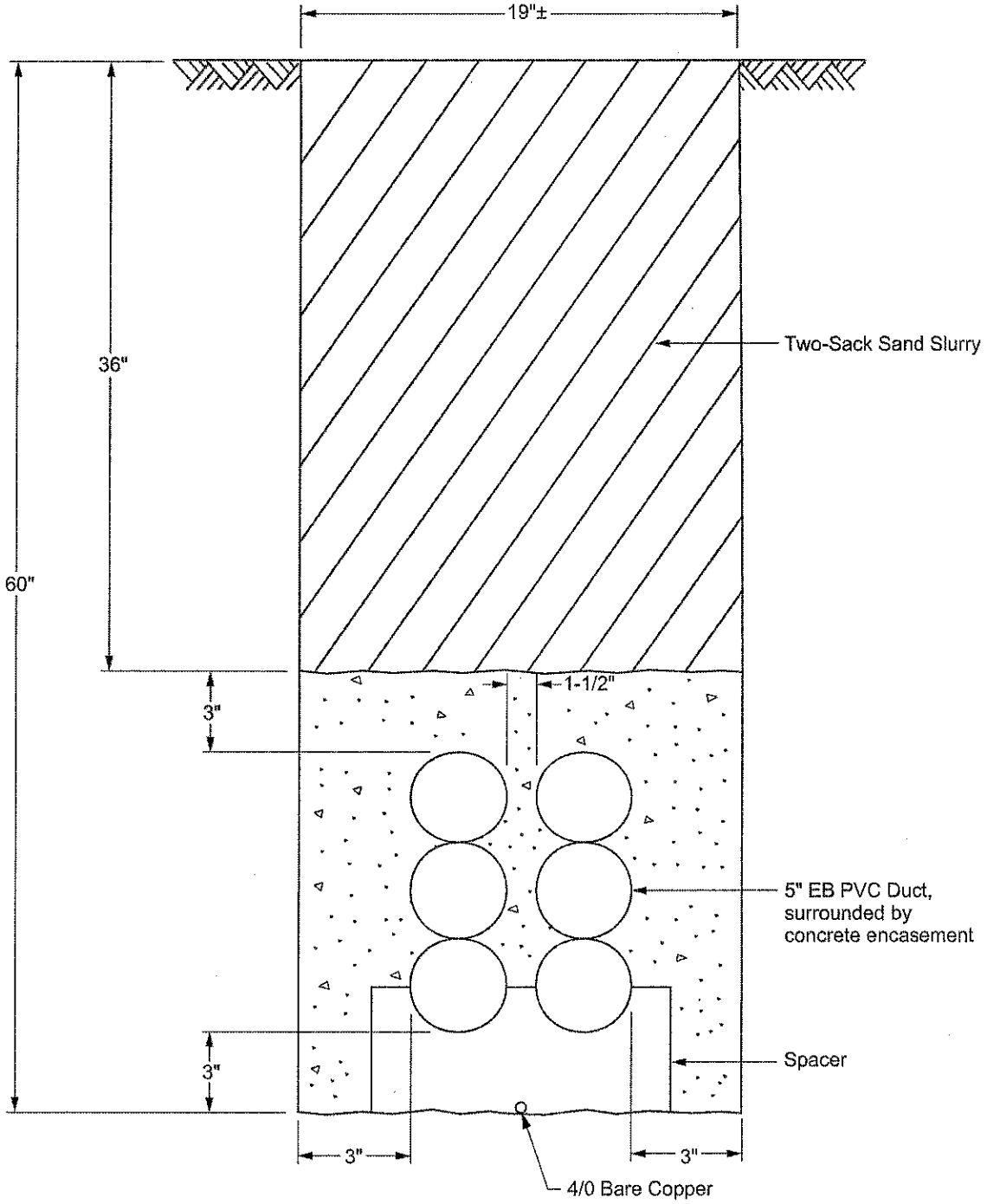
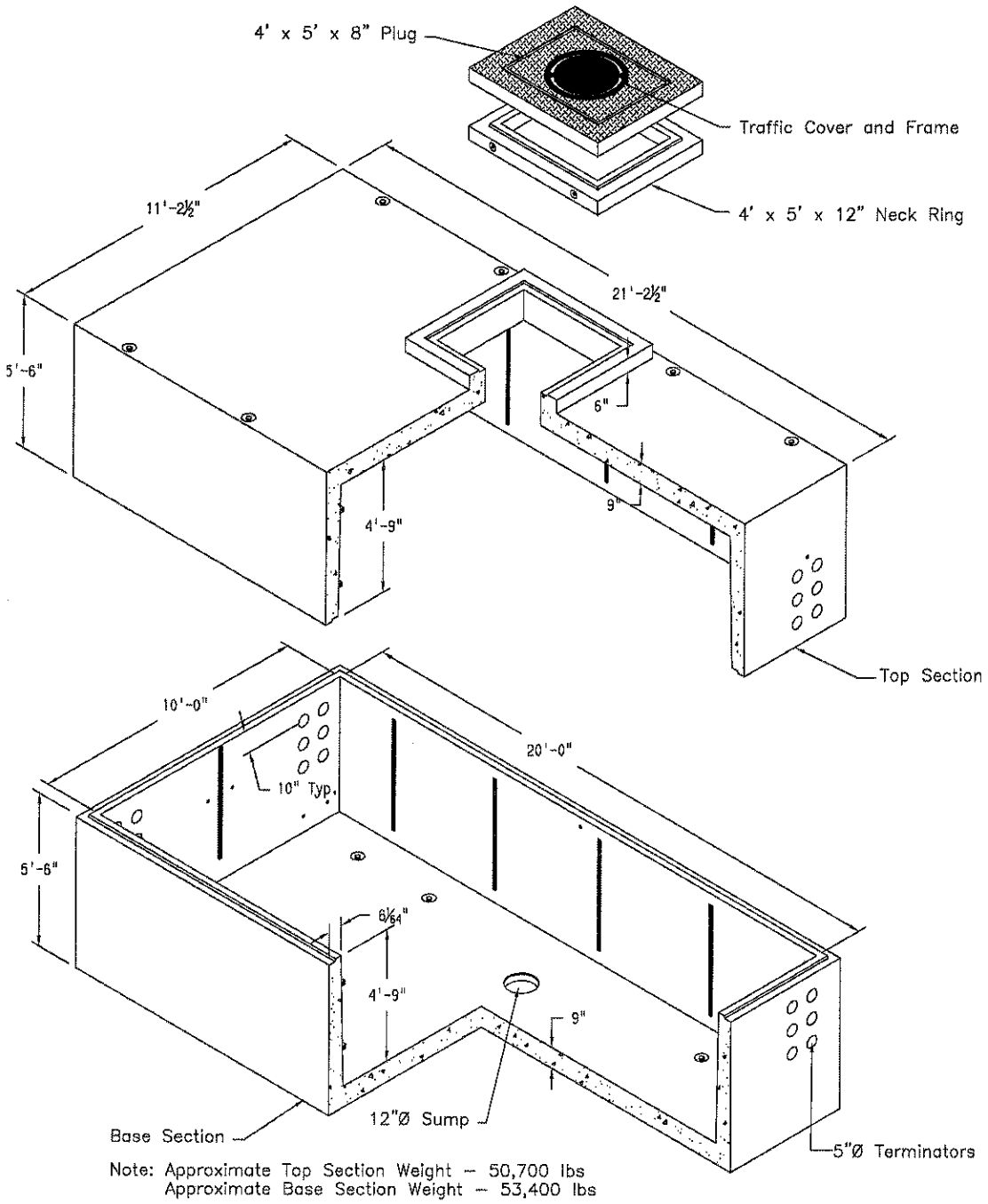


Figure 300–17: Transmission Vault — Isometric View (10' x 20' x 9'-6")



Note: Approximate Top Section Weight – 50,700 lbs
Approximate Base Section Weight – 53,400 lbs

TUG300SH25.DWG

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Pascual Garcia
Title: Project Manager
Dated: 05/09/2016

Question 27:

Please provide the original images used for PEA Figures 3-8, *Typical Subtransmission Duct Bank* , and 3-9, *Typical Subtransmission Vault* .

Response to Question 27:

Please see the attached file that depicts the typical subtransmission duct bank and typical subtransmission vault. Should telecommunications facilities be co-located within the same duct bank as subtransmission, additional duct would be required to accommodate the telecommunications cable which is not seen in the attached typical depiction.

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Pascual Garcia
Title: Project Manager
Dated: 05/09/2016

Question 28:

The PEA indicates that, should groundwater be encountered, it would be pumped into a tank and disposed of at an off-site disposal facility. However, PEA Table 4.17-1 does not appear to include a destination that accepts groundwater. Please provide this information.

Response to Question 28:

Should groundwater be encountered, SCE would disperse it on site, or dispose of it at a licensed facility if the groundwater is suspected of being contaminated or degraded. The following facilities accept water: DeMenno/Kerdoon (2000 N. Alameda Street Compton, CA 90222) and Crosby & Overton (1610 W. 17th Street Long Beach, CA 90813).

Southern California Edison
Circle City and Mira Loma-Jefferson PTC A.15-12-007

DATA REQUEST SET A1512007 ED-SCE-02

To: ENERGY DIVISION
Prepared by: Pascual Garcia
Title: Project Manager
Dated: 05/09/2016

Question 29:

PEA Section 3.4 states that permanent and temporary land disturbance associated with the Project would be 22.28 acres and 371.72 acres; however, PEA Table 2-4 indicates that the permanent and temporary land disturbance associated with the Project would be 30.88 acres and 342.94 acres. Please clarify.

Response to Question 29:

Based on SCE's proposed edits to Table 2-4 of the draft DEIR Project Description; the permanent and temporary land disturbance associated with the project should be 27.98 acres and 374.74 acres.