STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

REQUEST FOR PROPOSALS

I-15/I-215 Interchange Improvements (Devore)

FOR DESIGN AND CONSTRUCTION ON STATE HIGHWAY

On I-15 from 0.8 mile south of Glen Helen Parkway UC to 1.4 mile north of Kenwood Ave UC.
And
On I-215 from 1.2 mile south of Devore Road OC to the I-15 junction

DISTRICT 08, ROUTE I-15/I-215

CONTRACT NO. 08-0K7104

08-SBD-I-15 PM 14.0/R16.4, I-215 PM 16.0/17.8

Project ID 08000003664

Federal Aid Project

Addendum No. 2 Issued May 15, 2012

The Department issues this Addendum No. 2 to inform Proposers of the following changes and corrections to the RFP.

BOOK 2 PROJECT REQUIREMENTS

The Book 2, Project Requirements, is modified as indicated by the deletions and additions set forth below.

All references to the "Highway Design Manual (HDM)" shall mean the Highway Design Manual as approved on May 7, 2012.

Add "Table of Contents" as attached to this Addendum No. 2.

Section 2 Project Management

Section 2.2.1 "General" is modified as indicated below:

2.2.1 General

The Design-Builder shall perform all Work necessary to meet the requirements associated with Cost Management in accordance with the requirements of the Contract Documents and these Technical Provisions. In general, this includes the preparing, processing, revising, and submitting of invoices, earned value reports, and narrative progress reports describing variances in earned value reports.

Section 2.2.2.2.1 "General" is modified as indicated below:

2.2.2.2.1 General

The Department reserves the right to withhold processing of an invoice if the requirements of this section are not met.

The Design-Builder shall structure the billing periods to start on the twenty first of the month and end on the twentieth of the following month. The Design-Builder shall include the following on the invoice cover sheet:

- Project numbers (Federal and State) and title,
- Invoice number (numbered consecutively starting with "1"or 001),
- Period covered by the invoice (specific Days),
- Total earned to date for the Project as a whole and for each Work Segment, if any,
- Authorized signature and title of signatory,
- Date that invoice was signed.

The Design-Builder shall include the earned value report and Progress Report~~,~~ for the period being billed, with the invoice.

On a monthly basis, at a minimum, the Design-Builder shall meet with the Department to review the following prior to submitting invoices:

- Activities percent complete, which are based on physical percent complete verified by the field Department personnel relating to a resource and cost loaded procurement and construction schedule activity,
- Incorporation of approved Change Orders as individual activities with proper title, coding by Change Order number, associated logic, duration, as well as cost/resource loading,
- Verification of any unit price items,
- Status of outstanding Nonconforming Work and Warranties,
- Backup documentation for cost reimbursable procurement and Change Order schedule activities.

Section 2.2.2.2.2 "Invoice Calculations" is modified as indicated below:

2.2.2.2.2 Invoice Calculations

The Department will make~~base~~ payments based on ~~the Department's~~ an estimate of physical percent complete of the Work agreed to between the Design-Builder and the Department, not on measured quantities ~~(except where specifically stated in the Contract)~~. If the Design-Builder intends to bill for materials on hand, all procurement activities must be scheduled and cost/resource loaded separate from the installation activities.

The payment to the Design-Builder will be the amount shown on the Design-Builder's Approved invoice less deductions made by the Department.

The following Project Management items from Form 9 submitted with the technical and price proposal will be paid by prorating any unpaid balances by the amount of time remaining until Substantial Completion or Final Acceptance as determined by the Department:

- Contract Management (includes Scope Management, Cost Management, and Schedule Management),
- Quality Management,
- Human Resources Management,
- Safety Management,
- Public Information Management,
- Environmental Management,
- Maintenance During Construction.

Payment for insurance and premium will be made upon presentation of a paid invoice by the Design-Builder.

The Department makes the payments for Mobilization according to Public Contract Code § 10264. The Department pays the item total for mobilization in excess of 10 percent of the total bid in the first payment after Final Acceptance.

The Department will base payments for design based on estimated percentage complete for each Release for Construction (RFC) package with the following limitations:

- A maximum 90 percent will be paid when RFC Documents have been issued,
- A maximum of 95 percent will be paid when all construction Work associated with each RFC package is complete,
- A maximum of 100 percent will be paid when all As-Built Documents have been accepted.

The Department will base payments for Time Related Overhead on the number of Working Days that occurred during that monthly estimate period, including compensable suspensions and delays. Working Days granted by Contract Change Order due to Extra Work or changes in character of the work, will be paid for upon completion of the Contract. The amount earned per Working Day for time-related overhead shall be the amount for Time Related Overhead on Form 9 submitted with the Price Proposal divided by the number of Working Days in the Contract.

Section 2.2.2.3 "Progress Report" is modified as indicated below:

2.2.2.3 Progress Report

The Design-Builder shall include the following in a monthly progress report:

1. Summary of work performed during the previous month. Include digital color photographs of the Project progress.
2. Safety
   - Summary of Project accidents (frequency and severity) and corrective actions taken,
   - Updates to emergency services access points to the Project Site,
   - Updates on safety training provided.
3. Labor compliance
   - The total monthly labor hours for construction/maintenance and non-construction personnel by classification of management, engineering, and other technical personnel used on the job,
   - Disadvantaged Business Enterprise (DBE) progress and Project updates,
   - Equal Employment Opportunity (EEO) progress and Project updates,
   - Update on labor compliance unresolved issues.
4. Quality updates
   - Summary of quality audits and quality control processes performed,
   - Listing of non-conformances and resolutions,
   - Summary of Quality Manual updates.
5. Public Information updates
   - Summary of public input received and responses,
   - Summary of media contacts,
   - Summary of complaints and resolution,
   - Summary of information provided to the public regarding closures and construction staging changes.
6. Environmental compliance
   - Summary and copies of environmental monitoring reports,
   - Summary of non-compliance issues and resolution,
   - Summary of agency inspections.

7. Utilities
   - Status of private utility work performed and required,
   - Status of public utility work performed and required.
8. Geotechnical
   - Summary of vibration and settlement monitoring activities and issues,
   - Copies of vibration monitoring reports,
   - Copies of settlement monitoring reports.
9. Maintenance of Traffic
   - Summary of traffic switches and a look ahead to future traffic switches,
   - Summary of known traffic incidents within the Work zone.

~~10. Visual Quality~~

- ~~Summary of visual quality activities~~
- ~~Summary of recommendations and decisions~~

10~~1~~. Change Orders

- Summary of approved, pending,~~outstanding~~ and potential change orders.

~~12. Earned Value analysis for project cost and schedule.~~

Section 2.2.3.2 "Monthly Progress Reports" is modified as indicated below:

2.2.3.2 Monthly Progress Reports

The Design-Builder shall provide six (6) hardcopies of the Monthly Progress Report, ~~and~~ an electronic pdf copy, and original electronic report formats, if requested by the Department.

Section 2.2.3.5 "Design Breakdown Report" is modified as indicated below:

2.2.3.5 Design Breakdown Report

Within thirty (30) Days of NTP1, the Design-Builder shall provide a breakdown of the design resources ~~hours~~ and ~~design~~ costs for the Project in accordance with the following:

- The breakdown shall be provided in an electronic Excel spreadsheet,
- The breakdown shall list all major design activities. At a minimum, the breakdown should be broken down to a level of detail consistent with the Baseline CPM schedule,
- ~~The breakdown shall list hours and rates per activity for each employee classification (e.g., Technicians, Senior Engineers, Project Managers, Administration),~~
- The breakdown shall list budgeted expenses per activity,
- ~~The breakdown shall list a combined mark-up factor for overhead and profit,~~
- The spreadsheet shall sum the design activities, hours per activity, expenses, and overhead/profit mark-up into a single Lump Sum value equal to Form 9, Line 9 – Design Services.

Section 2.3.1 "General" is modified as indicated below:

2.3.1 General

The Design-Builder shall complete and maintain a "Primavera Project Planner" (P6) Project Management ~~computerized~~ Critical Path Method (CPM) Schedule as described herein.

Section 2.3.1 "General Requirements" is modified as indicated below:

2.3.2.4 General Requirements

Changes to the Schedule shall be closely coordinated with the Department and are subject to the Department's Acceptance. If the Department deems Work is performed substantially out of sequence, the Department may request the Design-Builder to demonstrate the impacts in accordance with the Time Impact Analysis (TIA) section contained herein.

The Design-Builder shall manage and Work with each Subcontractor and Supplier to obtain information on Activities for implementation and sequencing of the Work. The schedules shall reflect Contract requirements and known limitations.

Errors or omissions within schedules shall not relieve the Design-Builder from finishing all Work within the time limit specified for completion of the Contract. If, after a schedule has been Accepted by the Department, and either the Design-Builder or the Department discovers that any aspect of the Schedule has an error or omission, it shall be corrected and the effects indicated in accordance with the Time Impact Analysis section contained herein. No additional time will be given for errors or omissions, even if TIA shows additional time is required. The Design-Builder will be required to provide resources required to complete the Work within contract duration.

Any condition or Work that impacts the Design-Builder's commencement of an activity shall be identified as outside impacts to the Schedule, such as work under another contract, which affects the Project. In a case where Work affects or is affected by work under another contract and the affected contracts are being performed by the same contractor, the Design-Builder shall coordinate the Work to minimize impacts to both contracts' project completion dates. No additional time shall be given for coordination with other contracts.

Section 2.3.2.8.2 "Schedule Updates" is modified as indicated below:

2.3.2.8.2 Schedule Updates

The Department will accept or return comments on submitted schedules within five (5)~~seven~~ Working Days after being received. Schedules that are not accepted shall be corrected by the Design-Builder within seven (7) Calendar Days. It is the Design-Builder's responsibility to meet with the Department as often as necessary to satisfy the Department's comments within said seven (7) Calendar Days. All Change Orders shall be incorporated into the Schedule Updates by separate activities with Approved Costs and Resources. All Change Orders must be coded appropriately by Change Order number and appropriate activity coding.

Section 2.3.2.8.3 "Impact Schedules" is modified as indicated below:

2.3.2.8.3 Impact Schedules

The Department will accept or return comments on submitted schedules within ten (10) Working~~14 Calendar~~ Days after being received. Schedules that are not a~~A~~ccepted shall be corrected by the Design-Builder within seven (7) Calendar Days. It is the Design-Builder's responsibility to meet with the Department as often as necessary to satisfy the Department's comments within said seven (7) Calendar Days.

Section 2.3.2.9 "Weekly Look-Ahead Schedule" is modified as indicated below:

2.3.2.9 Weekly Look-Ahead Schedule

The Design-Builder shall submit weekly, a detailed forward looking period of at least twenty one (21) ~~14~~ Calendar Days. This schedule may be a hand- or computer-generated bar chart, but specifically references the applicable CPM Activity ID. This Look-Ahead Schedule" shall be in greater detail than the "Working Schedule" and define specific daily operations at each specific location to be performed during the two-week period.

Section 2.3.2.11 "Change Management" is modified as indicated below:

2.3.2.11 Change Management

The Design-Builder shall provide the Department with the schedule activity(s) that were affected and document them in the Change Order. All Change Orders shall be incorporated into the schedule. Each Change Order shall have its own activity ID and specifically reference the Change Order Number as the P6 Resource; and assigned to a cost account "CO". All change orders shall include TIA and any additional time shall be accompanied with the change order. No consideration for additional time will be given after change orders have been executed.

Section 2.3.2.17 "Level of Detail" is modified as indicated below:

2.3.2.17 Level of Detail

The Schedule shall be cost- and resource-loaded and will be used to administer the payments to the Design-Builder. If the Design-Builder intends to bill for materials on hand, all procurement activities must be scheduled and cost/resource loaded separate from the installation activities.

The costs assigned to schedule activities shall roll up to equal the price for the items identified in Forms 9 and 14 of the ITP. The total cost of all schedule activities shall equal the Contract Price. The cost assigned to individual schedule activities shall reflect the Design-Builder's cost for each activity, and shall not artificially inflate, imbalance, or front-load the items. Each activity shall identify a reasonable estimate of either a commodity or labor hour upon which the activity value is based The Design-Builder shall utilize the activity code FM14 to specifically reference all Activities related to each Bridge number on Form 14. Combining multiple Resource/Cost Account codes on single activities is not allowed~~recommended~~ (i.e., "Install Soundwalls" should not include both Painting and Installation cost/resources).

As a minimum each activity shall:

- Have a unique activity description and contain a verb,
- Be a duration of not more than twenty (20) Working Days or cost more than $1,000,000, unless otherwise authorized by the Department,
- Have at least one predecessor and one successor activity, except for Project start and finish, respectively
- Express activity durations in Days,
- Utilize the Activity Code "DETL" to best represent a geographic area of the project. The DETL code field shall be shorter than 5 characters.

Shall have a minimum of the following Activity Codes:

- Stage,
- Phase,
- Work Location,
- Work Structure (used for all major structures – bridges, retaining walls, draining systems etc.),
- Responsibility,
- Work Shift,
- Cost Account Number for Schedule Roll-up,
- Contract Pay Item Numbers.

Each activity shall be assigned to the appropriate Calendar. The submitted Schedules will have at a minimum a Working Day Calendar that includes all Department designated holidays, as well as a Calendar Day one for cure activities and appropriate Milestones. Additional Calendars will be included for activities with special restrictions.

The Baseline Schedule shall be sufficiently detailed to accurately reflect the complexity and numerous design and construction operations of this Project to the satisfaction of the Department. The level of detail described below is an example of the kind of detail expected, but can be improved upon or changed as applicable.

Administration:

- Schedule Milestones,
- Mobilization,
- Foundations, substructure, superstructure, and decks,
- All Submittals (Design packages, shop drawings, etc),
- Department review periods,
- Utility notification and relocation, by utility,
- Technical reports submittals,
- Material on hand (procured items) requests and payments ,
- Substantial completion,
- Punch list ,

Design:

- Structures 30. 60, 100 and RFC plans submittals,
- Roadway 30, 60, 100 and RFC plans submittals,
- Permits,
- Railroad approval,
- Cleared RW parcels,
- Environmental mitigation.

Bridges:

- Test piling,
- Test holes,
- Embankment for each abutment location,
- Fabrication and delivery of piling,
- Structural steel fabrication and delivery, per structure,
- Pile installation, per bent, per structure,
- Drilled shaft installation, per pier, per structure,
- Pile caps, per bent, per structure,
- Footings, per pier, per structure,
- Columns, per bent, per structure,
- Walls, per pier, per structure
- Caps, per pier, per structure,
- End bents, per structure,
- Falsework Bents, Falsework Erection
- Beam or girder erection, per structure,
- Diaphragms,
- Deck placement, per structure,
- Curing and Stressing
- Hinges
- Parapets, per structure,
- Erection and removal of falsework and shoring,

Roadway:

- Traffic switches,
- Submission of job mix formula for asphalt pavement,
- Delivery schedule for items such as drainage pipe, guardrail, sign structures and signs, permanent lighting facilities, and permanent traffic signals,
- Internal access and haul roads (location and duration in-place),
- Clearing and grubbing by stationing and roadway,
- Excavation,

- Embankment placed for each roadway,
- Drainage – by run with structures for each roadway,
- Retaining walls per location broken down to foundations, barrier, wall construction,
- Subgrade for each roadway,
- Base for roadway,
- Curb, barrier wall and sidewalks for each roadway,
- Pavement (asphalt and/or concrete) for each roadway,
- Bridge approach slabs per location,
- Guardrail for each roadway,
- Slope pavement or riprap,
- Roadway lighting for each roadway,
- Signing for each sign structure location and for each roadway,
- Striping for each roadway,
- Traffic signals per location,
- Topsoil, sodding, seeding and mulching for each roadway,
- Landscaping,
- Finishing roadway and final cleanup,

Section 2.3.3.1 "Schedule Submission" is modified as indicated below:

2.3.3.1 Schedule Submission

The Design-Builder shall include a narrative for each schedule submittal to include and discuss:

- A bar chart, of all activities, sorted by Early Start and indicating Longest Path(s) in red,
- A bar chart sorted by Early Start for each Milestone's Critical Path,
- A bar chart, of only activities with Total Float less than ten (10) Days, sorted by Early Start,
- Upcoming and pending coordination required with the Department, or third parties,
- Potential problem areas,
- Description and reason for any changes made to the schedule and the effects the changes have on Milestones or Project Completion Date~~.~~ including schedule recovery.

The Design-Builder shall include Bar Charts for each Schedule submittal containing the following information:

- The Baseline Schedule in grayscale above the current progress bar for each task,
- Activity ID and description,
- Original Duration,
- Early Start, Late Start, and Late Finish,
- Activity Float and Total Float,
- Predecessors and successors,

- Include a title block and a timeline on each page. At a minimum, the title block shall include file name, revision, start date, finish date, data date, and run date.

Each schedule submission shall include three CD-R compact disks containing a backup, in P6 format and three hard copies of a readable scale.

Section 2.3.3.6 "Weekly Look-Ahead Schedule" is modified as indicated below:

2.3.3.6 Weekly Look-Ahead Schedule

The Design-Builder shall submit weekly, a detailed forward looking period of at least twenty one (21~~4~~) Calendar Days. This schedule may be a hand- or computer-generated bar chart, but it must roll up to ~~specifically references the~~ applicable CPM Activity IDs.

Section 2.4.2.2.1 "General" is modified as indicated below:

2.4.2.2.1 General

The overall quality approach defined by this Section requires the Design-Builder to develop, implement, and maintain a Quality Program that encompasses the overall project, the design, and the construction quality ~~aspects~~, as well as documentation requirements for the Project. The Department will audit the Design-Builder's Quality Program to determine whether quality activities are being carried out and implemented ~~effectively~~in accordance with these quality plans.

The Design-Builder shall perform Quality Control and Quality Assurance activities for the design of the Project in accordance with the policies and procedures defined in the Quality Manual described in Section 2.4.2.3. The Department's oversight role will include audits of the design products. The Design-Builder's Quality Control activities shall include, but not limited to, the total of all design and construction activities to ensure that a product meets Contract requirements. The Quality Assurance activities shall include, but not be limited to, all systematic monitoring and evaluation of various aspects of the Project to ensure the standards of quality are being met, thereby providing confidence that all Work complies with the Contract and that all materials incorporated in the work, all equipment, and all elements of the Work will perform satisfactorily. The Design-Builder shall perform design quality check and review to ensure that the Work meets Contract requirements. The Design-Builder shall also perform construction quality testing and inspection activities to ensure that materials and the constructed Work meet Contract requirements. The quality tests and inspections shall be in accordance with the policies and procedures defined in the Quality Manual. The Design-Builder's Quality Assurance team personnel shall be independent from and have no responsibilities in the production of the Work.

The Department's oversight role is to perform Independent Quality Assurance that includes reviews and audits of the design and construction products, and the Design-Builder's Quality Control and Quality Assurance activities. The Department will perform Independent Quality Assurance (IQA) activities that are an unbiased and independent audits and evaluation of all the technical checks, sampling, and testing procedures and equipment calibration. The Department will perform contract acceptance testing and inspection for verification that the Work meets Contract requirements.

The Design-Builder shall document quality activities and maintain quality data in accordance with the policies and procedures defined in the Quality Manual. The Design-Builder shall provide a Document Control System (DCS) to store and record all documents generated under the Contract for document management. The Design-Builder shall enter all Project documents including documentation of quality activities, tests, inspections, plans, reports, and correspondence into the DCS.

The DCS shall provide an efficient method of searching documents by filename and the textual content of PDF files.

Section 2.4.2.2.2 "Withholding of Payment and Work Suspension" is modified as indicated below:

2.4.2.2.2 Withholding of Payment and Work Suspension

If there is evidence that the Design-Builder~~'s~~ is not following approved quality procedures ~~are not adequate (~~as evidenced by the Department's oversight reviews or problems arising during design or construction~~)~~, the Department may, at its sole discretion, withhold payment for design and construction until sufficient quality procedures are in place. If construction is in progress, the Department may suspend ongoing Work represented by ~~the~~ deficient work or because quality procedures are not followed ~~quality procedures~~ and require correction of design and/or construction defects.

In addition, the Department may deduct from any amounts otherwise owing to Design-Builder, including each progress payment and the final payment, any additional costs borne by the Department to address lapses to the Design-Builder team's quality management system, as specified in see Section 11- Book 1.

Subject to the Department's determination, the Department may assess the Design-Builder a $100-per-hour monetary deduction for failure to facilitate satisfactory progress or completion of the Work. Hourly charges may be applied to periods during which the Department determines the Design-Builder has not satisfactorily responded to a documented non-compliance. No charge will be assessed if the deficiency is corrected by the Design-Builder within one hour of written notification from the Department.

Section 2.4.2.4 "Control of Material" is modified as indicated below:

2.4.2.4 Control of Material

The Design Builder shall furnish the Department a list of the Design Builder's sources of materials and the locations at which those materials will be available for inspection within seven (7) Calendar D~~d~~ays after NTP 2. The list shall be submitted on Material Furnished form shown on Exhibit 2-F, Notice of Materials to Be Used~~Material Furnished~~ Form (CEM-3101DB), and shall be furnished to the Department within the required time as listed on Exhibit 2-G, Inspection Request Form (TL-38DB) to permit inspecting and testing of materials to be furnished from the listed sources in advance of their use. The Department will perform Source inspection as shown on Exhibit 2-D, Source Inspection Material Control Process.

The Department may inspect, sample, or test materials at the source of supply or other locations, but the inspection, sampling or testing will not be undertaken until the quality control personnel working on behalf of the Design Builder have completed their quality checks and the Department is assured by the Design Builder of the cooperation and assistance of both the Design Builder and the supplier of the material. The Design Builder shall assure that the Department or the Department's authorized representative has free access at all times to the material to be inspected, sampled, or tested. It is understood that the inspections and tests if made at any point other than the point of incorporation in the work in no way shall be considered as a guaranty of acceptance of the material nor of continued acceptance of material presumed to be similar to that upon which inspections and tests have been made, and that inspection and testing performed by the Department shall not relieve the Design Builder or the Design Builder's suppliers of responsibility for quality control.

For any materials/products that are shown on the Department's Pre-Qualified Products list, the Design Builder shall only utilize suppliers of such products that are on the list. See the Department's Materials Engineering and Testing Services (METS) website (http://www.dot.ca.gov/hq/esc/approved_products_list/) for the Authorized Materials List.

Where required by the specifications, materials/products should be fabricated at a location that has passed a Department audit, the Design Builder shall only utilize an audited/authorized facility that resides on the latest Department Authorized Facility list. See the Department's Materials Engineering and Testing Services (METS) website (http://www.dot.ca.gov/hq/esc/Translab/authorized_laboratories_list/) for the latest list of Authorized Facilities.

"Department Review Time Requirements of Section 2.4.2.5.4 "Quality Manual – Design" is modified as indicated below:

Department Review Time Requirements

The Department will complete its review of reports/studies as indicated in Exhibit 2-B. Review time for other reports/studies not indicated on Exhibit 2-B, List of Studies and Report for Design Development, will be a maximum of twenty one (21)~~0~~ working days. Review time of design plans are established in the Technical Provisions as not to exceed twenty one (21)~~0~~ Working Days (refer to Exhibit 2-C for list of design plans). Other review times are listed below:

- Design Exceptions - See Book 2 Section 11-Exhibit 11-E~~C~~ , Design Exception ~~Approval~~ Process Flowchart,
- RFI Submittal - three (3) Working Days,
- FHWA - thirty (30) Working Days.

These review timelines depict the maximum allowed time the Department has to review the associated submittals and respond to the Design-Builder without impacting the overall Project schedule. Each design package above may go through multiple iterations of review by the Department before Approval or Acceptance. The Department review timelines above start over for each package re-submittal. The actual Department review timeline may be directly related to the extent of involvement the Design-Builder allows during the design development process. More up-front Department involvement may shorten the review timelines. The Department, however, makes no guarantees of a streamlined review process for any design submittal.

Submittal review times may be reduced or extended as mutually agreed upon for simple or complex submittals.

Section 2.5.2.3.2 "Location" is modified as indicated below:

2.5.2.3.2 Location

The co-location office for the Project shall be located within six miles south of the Project site or within downtown city of San Bernardino.

Section 3 Public Information

Section 3.2.3 "Customer Groups (Audiences)" is modified as indicated below:

3.2.3 Customer Groups (Audiences)

The Department and Design-Builder shall identify a number of customer groups that shall be communicated with during the Project. The Design-Builder shall describe in its Public Information Plan its approach to communicating with these groups and coordinating with Department. The identified groups include but are not limited to:

- Area residents
- Property owners
- Commuters
- The traveling public
- Commercial vehicle operators, e.g. FedEx Logistics Distribution Center
- Local government staff and regional government officials
- Directly affected Chambers of Commerce
- Advisory Committee
- State legislators
- Local transits/buses
- Department employees
- School district transportation agencies/charter companies
- Business owners, employees, and customers
- Neighborhood and business associations
- News media
- Emergency response agencies, including but not limited to police, fire, and ambulance agencies
- County Sheriff
- Utilities when necessary
- Historic Preservation Commission
- Local tourist destinations
- Local delivery and courier services

- School districts
- Local Colleges/Universities
- Water management organizations, environmental permitting agencies, and other local service districts

Section 6 Utilities

Section 6.1 "General" is modified as indicated below:

6.1 General

The Design-Builder shall perform all Utility Work in accordance with the Contract Documents and the Notice to Owners (NTO). Except as otherwise provided in a Utility Agreement (UA), Betterments are not included within the Design-Builder's Work. This section applies to existing and proposed underground and overhead Utilities.

Current status and proposed resolution for all Utilities that have potential conflicts are included in the Reference Information Documents (RID) and the exhibits in this Section. P~~reliminary p~~othole information is included in the exhibits in this Section~~Utility Plan Sheets (RID)~~. The Design-Builder will prepare all supporting documentation for the Notice to Owners (NTO) and Utility Agreements (UA). The Department will issue NTOs and execute UAs with Utility Owners for Utilities in conflict.

Section 6.2.1.1 "Department-Supplied Information" is modified as indicated below:

6.2.1.1 Department-Supplied Information

The Department has contacted the known Utility Owners to give them preliminary notification that their facilities may be impacted by the Project. Department has completed an initial Utility survey and has identified many of the existing Utilities in the Project area. The results of the Department's investigations are described in Exhibit 6-C,~~the~~ Utility Plan Sheets and Exhibit 6-D, ~~the~~ Verified Utility Information (Pothole Matrices)~~tables showing Verified Utility Information, attached as Exhibits 6-C and 6-D; and in the Utility Information Sheets (UIS) included in the RID~~.

The Utility Plan Sheets provide information as to the locations, and known specific Utility Owner conditions for the Utility Work. These locations were determined from the best available information; however, the Design-Builder acknowledges that:

- The existing Utility Plan Sheets may not identify all existing Utilities impacted by the Project,
- The existing Utility Plan Sheets may not show the identified existing Utilities at their correct locations or indicate their correct sizes and/or types, and
- The Contract Price includes contingencies deemed adequate by the Design-Builder to cover the possibility that the existing Utility Plan Sheets do not adequately or accurately identify all situations in which existing Utilities may require Relocation, taking into consideration the fact that the Design-Builder is entitled to Change Orders only in specified situations.

Notwithstanding the inclusion of Exhibit 6-C, Utility Plan Sheets and Exhibit 6-D, ~~Pothole tables showing the~~ Verified Utility Information (Pothole Matrices), such documents shall be considered Contract Documents only to the extent that they are used to determine whether an existing underground Utility is indicated at all or with "reasonable accuracy" under Book 1, Section 6.2.1. The Design-Builder has no right to rely on these documents for any other purpose.

Section 6.2.1.1.1 "Relocation Schedules" is modified as indicated below:

6.2.1.1.1 Relocation Schedules

The Design-Builder shall coordinate Relocation schedules with Utility Owners and the Department. The Department has determined Relocation schedules for the following utilities within the project limits. The Design-Builder may assume these schedules in planning the Work.

- For the Southern California Edison aerial crossing of I-15 just south of Kenwood Avenue – Relocation will require 6~~24~~ months from ~~approval of Relocation plans and~~ completion of earthwork at the location of the poles for the facility.

Section 6.2.1.2.2 "Other Design-Builder Requirements" is modified as indicated below:

6.2.1.2.2 Other Design-Builder Requirements

Construction of the Project will affect both existing and planned Utilities. The Design-Builder shall coordinate and cooperate with the Department and the Utility Owners to ensure that all Utility Work (whether performed or furnished by the Utility Owners or by the Design-Builder) is performed promptly and in close coordination with the Design-Builder's performance of the Project. The physical limits of the Design-Builder's obligation for the performance of Utility Work shall extend as far as necessary or advisable to accommodate or permit construction of the Project (taking into account the requirements of the Utility Owners, governmental persons with jurisdiction, and adjacent property owners).

The Design-Builder's obligations with respect to each impacted Utility shall include the following activities, all of which shall constitute a part of the Work:

- Performance of all tasks, obligations, and duties assigned to the Design-Builder in the Utility Agreements,
- Performance of all Incidental Utility Work,
- Identification and verification of all existing Utilities located within the Right of Way (R/W) or otherwise impacted by the Project, whether or not the existing Utility was indicated in Exhibit 6-C, ~~the~~ Utility Plan Sheets, or Exhibit 6-D~~the Pothole tables showing~~ Verified Utility Information ~~or in the UISs~~(Pothole Matrices),
- Design, construction, and/or inspection costs for all Utility Work for which such responsibility is assigned to the Design-Builder,
- Coordination and schedule verification with all Utility Owners as necessary for all Utility Work,
- Participation in the preparation of all applicable Department Utility Permit Applications for the Utility Work performed by the Design-Builder or by the Utility Owners,

- Identification, verification, and Approval that the location of all existing Utilities and the design and construction of proposed Utility Relocations are compatible with the remainder of the Project. Whether the Utility Owner or the Design-Builder performs the Utility Work, the Design-Builder will incorporate this information into the Project plans and provide coordinates, profile information, potholing results that confirm all existing Utilities and conflicts for Utility Relocations, and surveys of pertinent points in the field that show the exact placement of all Utility facilities. The Design-Builder will incorporate this information into its CADD drawings, and ultimately, on the Design-Builder's As-Built Documents. If the Utility Owner performs the design and construction of the Utility Relocation, the design information will meet only the standard of quality necessary for the Utility Owner to construct the Utility Relocation.

The Utility Work excludes those efforts and costs allocated to the Utility Owners in the Utility Agreements. The Utility Work also excludes the following obligations assigned to the Department in the Utility Agreements and Municipal Agreements:

- Collecting payments due from the Utility Owners and/or reimbursing Utility Owners for their costs of performing Utility Work,
- Negotiating with Utility Owners to resolve issues relating to the determination of legal responsibility for costs between the Department and the Utility Owner.

The Design-Builder shall perform all efforts included in the Utility Work with respect to each impacted Utility without regard to any of the following:

- Whether or not the Utility and/or necessity of the Utility Work was identified before the Proposal Due Date,
- The proposed resolution for the Utility in the Utility Tracking Report,
- Whether or not the Design-Builder is entitled to a Change Order with respect to such Utility Work.

The allocation of responsibility for any Utility Work to a Utility Owner will not relieve the Design-Builder of the obligation to coordinate with the Utility Owner as necessary for the Utility Work to be performed or of the obligation to perform any other Utility Work not specifically assigned to such Utility Owner. The circumstances under which the Design-Builder shall be entitled to a Change Order for Utility Work are set forth in Book 1.

In considering the locations and the potential impacts of Utility Work on the Project, the Design-Builder shall avoid Utility Work to the extent practicable; otherwise, the Design-Builder shall minimize the potential costs and delays of Utility Work to the extent practicable and allowable. Any Utility installed in a new location within the R/W shall be installed in a location as proposed by the Design-Builder, based on coordination with all affected parties and subject to issuance of a Utility permit by the Department.

Section 6.2.2.5 "Utility Tracking Report" is modified as indicated below:

6.2.2.5 Utility Tracking Report

The Design-Builder shall maintain a Utility Tracking Report in the form attached as Exhibit 6-B, Utility Tracking Report that lists all Utilities affected or potentially affected by the Project. The Design-Builder may modify the structure of Exhibit 6-B, Utility Tracking Report form, if approved by the Department.

The Utility Tracking Report shall contain not less than the following information for each Utility listed thereon:

- The name of the Utility Owner and a unique identification number for tracking,
- Schedule activity codes corresponding to the Work Breakdown Structure (WBS),
- A brief description of the Utility by size and type,
- The location of the Utility, based upon Project control datum or by station and offset,
- The proposed treatment of the Utility and the date such treatment was Approved by the Department,
- Once a NTO has been issued, the party responsible for performance of such Utility Work,
- The nature of the Utility Owner's existing right of occupancy of the R/W for such Utility,
- The scheduled start and completion dates of construction of the Utility Work,
- The actual start and completion dates of construction of the Utility Work,
- The status of construction for the Utility Work, including percentage complete, and
- Such other information as the Department may request.

The first Utility Tracking Report shall identify all changes from and additions to the information provided by the Department that is used by the Design-Builder in the creation of the Utility Conflict Maps. Each subsequent version of the report shall identify all changes from the previous version. The report shall be sortable so that data can be reported by the following parameters: the utility identification number, the Utility Owner, the scheduled start-of-construction date, and the scheduled completion date.

Section 6.2.3.2 "Scheduling" is modified as indicated below:

6.2.3.2 Scheduling

~~The UISs indicate the estimated amount of time required for the Utility Owners to design and/or construct their Utility Work where applicable. The foregoing time frames, and any time frames for design, construction, and/or performance of other tasks or reviews stated in the UISs, shall be considered estimates only and may not be relied upon by the Design-Builder for any purpose.~~

The Design-Builder shall negotiate with Utility Owners to determine the schedule necessary to design and/or construct their Utility Work where applicable. These schedules shall be indicated on the Design-Builder's schedule. If a Utility relocation requires a replacement easement, acquisition of the replacement easement shall be subject to the requirements of Book 2, Section 7 and the schedule requirements noted therein.

Section 6.3.3 "Investigations" is modified as indicated below:

6.3.3 Investigations

The Design-Builder shall take all actions necessary to identify and confirm the existence and exact location, size, and type of all Utility facilities within the R/W or otherwise potentially impacted by the Project construction, whether or not such Utilities are shown in Exhibit 6-C,~~the~~ Utility Plan Sheets, ~~(Exhibit 6-C)~~ or Exhibit 6-D, ~~the Pothole Tables showing~~ Verified Utility Information (Pothole Matrices~~Exhibit 6-D~~)~~, or in the UISs~~. This shall include all potentially

impacted Service Lines. Such actions shall include making diligent inquiry at the offices of the Utility Owners, consulting public records, and conducting field studies (such as potholing), taking into consideration the possibility that Utility Owners may provide inaccurate or inexact information with regard to their facilities. If the Design-Builder's investigations identify Utilities or Service Lines not described in Exhibit 6-C, Utility Plan Sheets ~~the Utility Plan Sheets (Exhibit 6-C)~~, or Exhibit 6-D, ~~the Pothole Tables showing~~ Verified Utility Information (Pothole Matrices~~Exhibit 6-D~~), ~~or in the UISs,~~ or if the Design-Builder determines that any Utility or Service Line was not accurately indicated in Exhibit 6-C,~~the~~ Utility Plan Sheets ~~(Exhibit 6-C)~~, or Exhibit 6-D ~~the Pothole Tables showing~~ Verified Utility Information (Pothole Matrices~~Exhibit 6-D~~), ~~or in the UISs,~~ the Design-Builder shall notify the Department immediately upon discovery. Any inaccuracy in, or omission from, the information provided in this RFP with respect to existing Utilities shall not relieve the Design-Builder of its duties with respect to the Utility Work.

The Design-Builder shall include in its investigation potholing as required by the Project Development Procedures Manual, Appendix LL, "Policy on High and Low Risk Underground Facilities Within Highway Rights of Way".

The Design-Builder shall complete its investigations within 90 Days of NTP 1. Upon completion of its investigations, the Design-Builder shall provide updated Utility Plan Sheets and Pothole Matrices~~Tables~~ to the Department. Once the Design-Builder completes its investigations, all known Utilities shall be assumed to have been identified with "Reasonable Accuracy", and the restrictions of "Reasonable Accuracy" in Book 1, Section 6.2.1.1.1 shall no longer apply.

The Design-Builder shall prepare a Utility Conflict Maps for each Utility impacted by the Project, identifying the location of the existing Utility, the conflicting area, and the final Relocation recommendation to mitigate potential conflict, including, if applicable, the proposed new location (without regard to whether the Design-Builder or the Utility Owner will be furnishing design). The CADD-prepared Utility Conflict Maps shall be attached to each NTO. The information shown on the Utility Conflict Maps shall include the following:

- Existing and proposed R/W,
- Existing topography,
- Proposed Project elements,
- Existing Utilities, and
- Include sufficient information for the Utility Owner to Relocate the Utility, including profile and alignment data as necessary.

Section 6.3.6 "Specific Utility Requirements" is modified as indicated below:

6.3.6 Specific Utility Requirements

This section outlines specific requirements related to particular Utilities within the Project. Additional guidelines have been provided by some Utility Owners and may be found in the RID. Requirements for Utility openings in Devore Road OC are provided in Exhibit 6-G, Devore Road OC Utility Opening Requirements. The Design-Builder shall coordinate any additional requirements for Utility openings with the Utility Owners listed in Exhibit 6-G, Devore Road OC Utility Opening Requirements.

Section 6.3.6.1 “Utility Work Which Shall Be Avoided” is modified as indicated below:

6.3.6.1 Utility Work Which Shall Be Avoided

The Design-Builder shall avoid Utility Work and protect in place the following utilities shown on the Utility Plan Sheets:

- All Utilities shown on I-15 south of Devore OH (Br. No. 54-818),
- The 14-inch Kinder Morgan pipeline within the project limits. Requirements for working near Kinder Morgan facilities are included in the RID. The Design-Builder shall contact Kinder Morgan for the most current requirements for working near a Kinder Morgan facility. It should be noted that protecting this utility in place may require a retaining wall near where the Utility follows the ‘CD’ Line,
- All Utilities in Cajon Blvd north of 'CAJ' Station 101+00, except for adjustments to manholes,
- All Utilities in Kenwood Boulevard, expect for adjustments to manholes,
- The Southern California Gas 36-inch line crossing I-15 near 'A4' Station 28+00, except to extend casings,
- The Southern California Edison overhead line crossing I-15 near 'A4' Station 37+00,
- All underground Utilities in existing Dement Street except the 4-inch fiber optic line owned by Verizon Business (left side of existing street) and any casing extensions.

Section 6.3.6.3 “Southern California Gas Company” is modified as indicated below:

6.3.6.3 Southern California Gas Company

Specific requirements for protecting Southern California Gas (SCG) Utilities in place are included in Exhibit 6-F, “SCG Requirements”. The Design-Builder shall adhere to the requirements of this Exhibit.

The Design-Builder shall provide a 12-inch casing under the end of the southbound ramps at Devore Road, within Cajon Blvd R/W (outside Department R/W), for a future SCG facility.

Section 6.5 “Deliverables” is modified as indicated below:

6.5 Deliverables

Deliverables shall be submitted to the Department in hard copy and electronic versions.

- Updated Utility Plan Sheets and Pothole Matrices~~Tables~~: The Design-Builder shall submit copies of updated Utility Plan Sheets and Pothole Matrices~~Tables~~ within 90 days of NTP1. The electronic version of the Utility Plan Sheets shall be submitted in MicroStation CADD and PDF formats.
- Exhibit 6-B, Utility Tracking Report (blank form): One information copy of the Utility Tracking Report shall be submitted to the Department weekly or as otherwise directed by the

Department. A preliminary Utility Tracking Report shall be submitted to the Department for Acceptance prior to NTP2.

- Utility Conflict Maps: The Design-Builder shall submit six copies to the Department and the Utility Owner two Working Days before the initial NTO meeting.
- Design Approval Letters: The Design-Builder shall submit a copy of a Design Approval Letter to the Department as an exhibit to each NTO.
- Design-Builder's Construction Inspection Approval Letter: The Design-Builder shall submit a Construction Inspection Approval Letter to the Department within seven Days of Utility Work completion for each segment of work accomplished by a Utility Owner.

Replace Exhibit 6-B with the attached Exhibit 6-B "Utility Tracking Report."

Replace Exhibit 6-C with the attached Exhibit 6-C "Utility Plan Sheets."

Add Exhibit 6-G "Devore Road OC Utility Opening Requirements" attached to this Addendum No. 2.

Section 11 Roadways

Section 11.2.3 "Local Road System" is modified as indicated below:

11.2.3 Local Road System

The Design-Builder shall obtain and meet local road criteria provided by the local governing agencies for roadways under their jurisdiction. The Design-Builder is responsible for obtaining any permits required by the local governing agencies for work on roadways under their jurisdiction. Permits may include the following:

- County of San Bernardino – Letter of No Objection,
- County of San Bernardino – Construction Permit(s).

Local governing agency approval shall be obtained by the Design-Builder prior to the Department approving RFC plans.

All cul-de-sacs shall have a minimum radius of 45 feet from the center of the cul-de-sac to the face of curb.

The minimum design speed for Cajon Blvd shall be 55 mph.

The following local roads shall be mill-and-overlaid within the limits specified. The minimum overlay thickness shall be 0.15 feet.

- Kenwood Avenue – From the north end of the profile adjustment (approximate Station 785+00) to Greenwood Avenue,
- Sante Fe Avenue – From Devore Road to the cul-de-sac.

The existing portions of Cajon Blvd, Kenwood Avenue and Cajon Junction within the limits of work shown on the Preliminary Engineering plans shall be rehabilitated to provide the minimum pavement design life specified in Book 2, Section 21. The finished surface of Cajon Blvd within

the north project limit and the intersection of Devore Road shall include a rubberized hot mix asphalt overlay to minimize noise.

Curb and gutter or non-mountable dike (minimum height, 6 inches) shall be provided along improved portions of Dement Street and Nedlee Avenue to minimize setback requirements for utility poles.

Section 11.3.1 "Performance Requirements" is modified as indicated below (with no changes to accompanying tables):

11.3.1 Performance Requirements

The Preliminary Design Drawings show the vertical and horizontal geometry for the "preferred alternative" identified in the Final Environmental document. The geometry may be refined subject to the conditions set forth in Section 1.3.1 "Basic Configuration".

The Preliminary Design Drawings show typical sections for mainline, ramps, connectors and cross streets. These include the number of lanes, shoulders, medians, curb and gutter, sidewalks, and other cross section elements. The number and location of lanes in each direction on mainline, ramps, connectors and cross streets, including the auxiliary lanes shall be consistent with the Preliminary Design Drawings.

The Design Builder shall design and construct all roadways to comply with the following performance requirements:

- Meet all Department and AASHTO roadway design and safety standards,
- Meet capacity for the 2040 design year,
- Comply with all mitigation measures in the Final Environmental Document for the "preferred alternative",
- Meet all future improvements identified as the "preferred alternative" in the environmental document, and
- Meet the widths of all cross streets as shown in the Preliminary Engineering Documents,
- Provide 13-foot lane widths on all truck bypass roadways.
- Maintain the existing median width on I-15 from the I-15/I-215 Interchange ('B3' Station 938+41) to the north limit of the project.

The scope of improvements shown in the Preliminary Engineering Documents was used to establish the right of way limits. Additional R/W acquisition shall be subject to the conditions of Section 7.5.4, "Identification of Additional R/W".

The Design Builder shall design and construct all roadway elements according to Department and AASHTO standards. This includes but is not limited to horizontal alignment, vertical alignment, superelevation, cross slopes, lane widths, shoulder widths, medians, clear zone, side slopes, and cut and fill slopes. This Project has additional specific requirements for some of these elements, which are given in this section.

The Design Builder shall prepare all necessary engineering studies and applicable design reports to justify all project roadway elements used in the project.

The Design Builder shall identify and correct all clear zone deficiencies on the freeway facility for all areas adjacent to new construction except as provided for in the Fact Sheet Exceptions to Mandatory Design Standards and Fact Sheet Exceptions to Advisory Design Standards (Exhibits 11-A and 11-B respectively of this section). The design vehicle type for all turning movements and acceleration/deceleration lengths for the Project is the STAA design vehicle for all roadways within state R/W and for Cajon Blvd. For local streets (except Cajon Blvd), the design vehicle for turning movements and acceleration/deceleration lengths should be coordinated with the local agency. For vertical curves and sight distance applications, the design vehicle is a passenger car.

I-15 mainline within the project limits is part of the Extralegal Load Network (ELLN). The existing minimum vertical clearances on the Route 15 mainline within the project limits shall be maintained or improved to a 23-foot clearance, whichever is greater; with the exception of the southbound I-215 braid structure over I-15 southbound, which must have a minimum vertical clearance of 20 feet. These vertical clearance requirements apply during construction as well as at project completion, unless a Department-approved detour for extra-legal loads is provided. If a Department-approved detour for extra-legal loads is provided, minimum vertical clearance on I-15 may be reduced during construction to 15 feet. Where applicable standards or other portions of this contract require greater clearances than the existing clearances, the greater clearance shall govern for all new construction.

All structures spanning the southbound I-15 roadbed (excluding sign structures) shall provide clear span (edge of shoulder to column face) for an additional ~~46~~50 feet of future pavement parallel to the inside of the southbound I-15 roadbed, without requiring the replacement of the structure. It should also be noted that a 12-foot inside shoulder is required along the southbound I-15 from 'A3' Station 850+00 to Kenwood Ave UC, as indicated on the Preliminary Engineering Drawings included in the RID.

The following existing features shall be upgraded to current design standards:

- Curbs and dikes
- Transition railings, metal beam guard railing, thrie-beam, and end treatments (modify existing drainage inlets as necessary to accommodate changes)
- Existing temporary railing (Type K) shall be replaced with permanent barrier

The Design-Builder shall follow the Project-specific design standards for specific roadways shown in the following tables.

Section 13 Structures

Section 13.1.1 "Administrative Requirements" is modified as indicated below:

13.1.1 Administrative Requirements

The Design-Builder shall perform Structure Work in accordance with the relevant requirements of the standards listed below.

~~If there is any conflict in standards, the order of precedence shall be as set forth below, unless otherwise specified. However, if the Design-Builder's Submittal has a higher standard, then adhere to the Submittal standards.~~

~~If there is any unresolved ambiguity in standards, it is the Design-Builder's responsibility to obtain clarification from the Department before proceeding with design and/or construction.~~

The Design-Builder shall use the most current version of each listed standard as of the Request for Proposal issue Date unless specified herein or modified by Addendum or Change Order.

Section 13.1.2 "Administrative Requirements" is modified as indicated below:

13.1.2 Structure and Structural Appurtenances and Retaining Wall Structures Standards

Priority	Agency	Title
1	Department	Seismic Design Criteria (SDC)
2	AASHTO	LRFD Bridge Design Specifications, 4th Edition with California Amendments to AASHTO LRFD Bridge Design Specifications 4th Edition
3	Department	Bridge Design Specifications (LFD Version, April 2000)
4	Department	Bridge Memo to Designers (MTD)
5	Department	Bridge Design Aids (BDA)
6	Department	Bridge Design Details (BDD)
7	Department	Bridge Design Practice, as appropriate
8	Department	Bridge Standard Detail Sheets (XS Sheets)
9	Department	Structural Detailing Standards
10	Department	Standards Special Provisions
11	Department	Design-Build Modifications to the Standard Specifications for Construction
12	Department	Standard Specifications
13	Department	Standard Plans
14	BNSF/UP	Guidelines for Railroad Grade Separation Projects and Guidelines for Temporary shoring
15	AREMA	American Railway Engineering and Maintenance-of-Way Association for Railway Engineering
16	Department	Plans Preparation Manual
17	Department	Bridge Deck Construction Manual
18	Department	Falsework Manual
19	Department	Foundation Manual

20	Department	Prestress Manual
21	Department	Construction Manual
22	Department	Bridge Construction Records and Procedures Manual
23	Department	Trenching and Shoring Manual
24	Department	Outline of Field Construction Practices
25	Department	Plans Preparation Manual
26	AASHTO	Manual for Bridge Evaluation, 2nd Edition with 2011 Interim Revisions
27	Department	Highway Design Manual (HDM) as approved on May 7, 2012
28	Department	Landscape and Structures Aesthetics Handbook
29	Department	Design Memoranda
30	Department	Local Agency Structure Representative (LASR) Guidelines

Sign and Lighting Structures

	AASHTO	Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals

Any non-standard design, details, manuals or documents other than those approved by Department will require approval prior to being used for design or the preparation of structure plans.

Current Bridge Standard Detail Sheets (XS-Sheets) and current Standard Plans including Revisions to Standard Plans (RSPs) shall be incorporated into the structure plans, as applicable.

Section 13.1.3.1 "Concept Design – Structure Type Selection (30%) Submittal" is modified as indicated below:

13.1.3.1 Concept Design – Structure Type Selection (30%) Submittal

The Design-Builder shall submit a Preliminary General Plan and Type Selection Report for each structure to the Department for review. Each Preliminary General Plan and Type Selection Report shall be prepared in accordance with the preliminary data checklist provided in Caltrans' *Bridge Design Aids and MTD 1-29*. The Type Selection Report shall also include but is not limited to the following:

- Evaluation and location of deck drains for widened structures,
- Structure repair work required in structure maintenance records,
- A quantitative seismic design evaluation for all new structures and retrofit evaluation of all existing structures to be widened or modified. For existing structures to be widened, the Type Selection Report shall include a summary of the seismic design evaluation and strategies of the new structures, seismic evaluation and potential retrofit strategies of the existing bridges, with supporting documentation, and other pertinent details. If necessary, the Design-Builder

or the Department can request a separate seismic retrofit strategy meeting,

- Preliminary Structure Hydraulics Reports (PHRs),
- Preliminary foundation reports (PFRs).

Type Selection Reports shall clearly delineate aesthetic features the Design-Builder has incorporated into the structure type. For existing structures to be widened that require seismic retrofitting, the Department must approve the retrofit strategy prior to substantial completion of structure design. The Department will have fifteen (15) Working Days to review the proposed retrofit strategy.

All Type Selection Meetings will be scheduled after the Department has approved the project geometrics and a minimum of 5 Working Days following receipt of a complete Type Selection Report and all related documents. Each Type Selection meeting shall be scheduled for two and half hours and for a maximum of four structures per meeting. The meeting will be held at project specified co-located facilities. At the meeting, the Design-Builder shall present the proposed structure and shall briefly discuss issues pertinent to the selection of the structure type, particularly requirements for foundations, hydraulics, construction (including falsework), seismic design, retrofit strategy, aesthetics, traffic handling, and other information needed to support the structure type.

After the meeting, the Design-Builder shall prepare a meeting summary and provide a copy to the Department within 3 Working Days. The meeting summary shall be used to update or supplement the information in the Type Selection Report to address comments raised at the meeting. Provided all issues raised at the Type Selection Meeting are satisfactorily addressed, the Department will provide written approval or denial of the proposed structure type within five (5) working days of receiving the final meeting summary.

Within 10 working days after receiving written approval of the structure type, the Design-Builder shall update the General Plan and submit the required number of reduced copies to the Department for comment. The Design-Builder shall incorporate any comments from the Department into the Final Design Documents.

Section 13.2.4 "Design Specifications" is modified as indicated below:

13.2.4 Design Specifications

The design shall be in accordance with AASHTO LRFD Bridge Design Specifications~~, and applicable Interim Revisions~~ and California Amendments to AASHTO LRFD Bridge Design Specification (LRFD BDS). Seismic design shall be in accordance with Caltrans' Seismic Design Criteria (SDC) and Caltrans Bridge Memo to Designers (MTD). The Design-Builder shall ensure that existing structures to be widened shall be seismically evaluated and retrofitted in accordance to all applicable Department requirements and Standards that include but are not limited to SDC, MTD 20-1, MTD 20-3, MTD 20-6, MTD 20-12, MTD 20-14, and MTD 20-15.

The proposed bridges shall be designed and constructed to accommodate future overlay loads of 35psf.

Several of the bridges in this project cross faults. Site specific Surface Fault Rupture Displacement Hazards (SFRDH) analysis for structures crossing fault zones have been performed and are provided in RID.

Exhibit 8-C, "Potential for fault rupture at new Devore Interchange Project", ~~in Section 8-Geotechnical~~ includes potential fault rupture displacement values for new/replaced structures. Fault rupture displacement values shall be incorporated in the design of structures. The design of structures shall conform to the guidelines of Exhibit 13-B "Analysis of Ordinary Bridges that Cross Faults".

All structures shall be designed assuming that they are located in a severe climate Area III where freeze-thaw cycles and heavy salting occur frequently. LRFD BDS Article 5.12.3, MTD 8-2 and other applicable standards shall be used accordingly.

Section 13.2.17 "Slopes" is modified as indicated below:

13.2.17 Slopes

Abutment end slopes beneath bridges shall be no steeper than 1.5:1 or match existing slopes. Slope paving will be required on all new bridges that have abutment slopes. Slope paving is also required on portions of the existing structures to be widened that already have existing slope paving and aesthetic treatments should match to the existing slope paving aesthetic treatments. For specific structure architectural treatment requirements, the Design-Builder's attention is directed to "Section 15 – Visual Quality Management" of the Project Requirements.

Section 13.2.23 "Miscellaneous Structures" is modified as indicated below:

13.2.23 Miscellaneous Structures

Miscellaneous structures include, but are not limited to, the following structure types:

- Bridge-mounted signs,
- Barrier-mounted signs on structures,
- Culverts and drainage structures.

Miscellaneous structures shall be designed in accordance with the latest editions of the *Caltrans Highway Design Manual*, AASHTO LRFD ~~*Caltrans*~~ *Bridge Design Specifications*~~,~~ with California Amendments, *Caltrans Bridge Memo to Designers*, *Caltrans Bridge Design Aids*, Corridor Master Plan or Visual Quality Manual, and other applicable requirements included in these Technical Provisions and Department's standards.

Deliverables are generally the same for miscellaneous structures as for bridge structures and shall meet the requirements in these Technical Provisions. Any variations from these requirements (e.g., submittal requirements, review duration, etc.) will be allowed only by express written permission.

Section 13.2.25 “Advance Planning Studies” is modified as indicated below:

13.2.25 Advance Planning Studies

Advance Planning Study (APS) reports are included in the Reference Information Documents. The APS reports contain information that the Design-Builder may find valuable in preparing the Final Design Documents. ~~However, revisions to the structure type, and/or the alignment indicated in the APS, if not specifically limited elsewhere in the project documentation, may be necessary and shall be subject to analysis at the Type Selection stage of the Project to ensure that all Contract requirements are met.~~

The following information is provided to assist the Design-Builder in determining the level of completion and suitability of any portion of the APS documents:

~~In most cases, the APS reports include a single structure alternative. Other structure alternative types may be considered, unless specifically prohibited in this document, but must be approved by the Alternative Technical Concept review phase specified in the Instruction to the Proposers (ITP),~~

- Structure aesthetics features are not included in the APS reports. However the Type Selection Reports shall clearly delineate Aesthetic features and shall be consistent with the Visual Quality Manual,
- Deck drains may be necessary for structures that are being widened.

Section 13.3.1 “Permanent Retaining Walls” is modified as indicated below:

13.3.1 *Permanent Retaining Walls*

The Design-Builder shall determine the location(s) and types of retaining walls needed on the Project. The Design-Builder shall minimize the need and visual impacts of all walls on the Project by utilizing wall profiles and alignments, which blend with the natural terrain. Where side slopes would exceed the R/W, retaining walls shall be used. Wall type selection and design by the Design-Builder shall meet all applicable Department requirements including, but not limited to, those related to differential settlement, Visual Quality Management, Utilities, Lighting, Signage, Drainage, and Landscaping. The Design-Builder shall notify Department of any potential right of way conflicts at the preliminary design stage.

Where possible, adjacent retaining walls shall be interconnected or curved into the existing or finished grade to eliminate blunt ends and avoid the use of guardrails, attenuators, or other safety devices at the ends. Long vertical curves shall be used at the top of the wall's profile to avoid abrupt tangents and chords.

The Design-Builder shall only use preapproved Proprietary wall system. For Pre-Qualified Products Lists (Authorized Materials List) refer to:

http://www.dot.ca.gov/hq/esc/approved_products_list/

When proprietary or alternate wall systems other than the Department standard walls are used, the Design-Builder shall provide site specifics to the wall provider. Site specifics include, but are not limited to: profiles, wall heights, loading conditions (e.g. dead loads, live loads), results of foundation investigations, water conditions, all utilities (in-place, proposed, and future), site restrictions, expected wall cross section, and desirable wall face treatments. Any proposed proprietary or alternate wall system will require prior approval from the Department. Wall types

to be used at bridge abutments and/or approach embankments will also require prior approval during the type selection phase.

For Mechanically Stabilized Embankment (MSE) and related special designs using engineered backfill layered with soil reinforcement, Bridge Design Aids (BDA) 3-8 dated November 21, 2011 shall be used.

The Design-Builder shall not use sheet pile, timber, or recycled material for permanent retaining walls or the retaining wall foundations.

The Design-Builder may use timber lagging as temporary supports for soldier pile walls when a concrete facing is used.

Unless specified otherwise herein or in the standards, the permissible total and differential settlement, and lateral displacement and rotation of retaining walls shall be based on the wall and site-specific requirements determined by the geotechnical engineer. The Design-Builder shall maintain a consistent architectural treatment within an uninterrupted wall segment. Wall types may be intermixed, if the adjacent retaining walls have the same architectural treatment.

Section 13.4.2 "Cajon Creek Bridge Right (Widen), Br No. 54-0781R" is modified as indicated below:

13.4.2 Cajon Creek Bridge Right (Widen), Br No. 54-0781R

Widen existing 6-span CIP/RC box girder to the right; remove existing Type 1 barrier rails and existing overhangs; construct~~replace~~ overhang and ~~replace~~ barrier rails with new Department approved barrier rails. Construct bent walls at Bents 3, 4 and 5 and reconstruct the existing deck between the new and existing deck at the last span to match the grade. Patch corner spalls located on approach slab (Number 3 lane) near Abutment 1. Evaluate the seismic vulnerabilities of the existing structure and perform retrofits as needed.

Section 13.4.3 "Cajon Creek Bridge Left (Widen), Br No. 54-0781L" is modified as indicated below:

13.4.3 Cajon Creek Bridge Left (Widen), Br No. 54-0781L

Widen existing 6-span CIP/RC box girder to the right; remove existing Type 1 barrier rails and existing overhangs; construct~~replace~~ overhang and ~~replace~~ barrier rails with new Department approved barrier rail and construct bent walls at Bents 3, 4 and 5. Evaluate the seismic vulnerabilities of the existing structure and perform retrofits as needed.

Section 13.4.4 "West Connector UC (Widen), Br No. 54-0782L" is modified as indicated below:

13.4.4 West Connector UC (Widen), Br No. 54-0782L

Widen existing single span CIP/PS box girder to the right. Remove and replace the existing Type 1 barrier rails and overhangs and construct overhang and barrier rails with new Department approved barrier rails. Evaluate the seismic vulnerabilities of the existing structure and perform retrofits as needed.

Section 13.4.5 “Route 15/215 Separation (Widen), Br No. 54-0783R” is modified as indicated below:

13.4.5 Route 15/215 Separation (Widen), Br No. 54-0783R

Widen existing 2-span CIP/PS box girder to the right. Remove existing Type 1 barrier rails and existing overhangs. Construct~~Replace~~ overhang and ~~replace~~ barrier rails with new Department approved barrier rail. Evaluate the seismic vulnerabilities of the existing structure and perform retrofits as needed.

Section 13.4.6 “Devore OH Left (Widen), Br No. 54-0818L” is modified as indicated below:

13.4.6 Devore OH Left (Widen), Br No. 54-0818L

Widen existing 3-span PC/PS Concrete I-girder to the right using PC/PS Concrete girders; Seismic retrofit the existing structure and strengthen bent cap for full permit rated capacity; remove the existing Type 1 barrier rails and existing overhangs; construct~~replace~~ overhang and ~~replace~~ barrier rails with new Department approved barrier rails with ~~and~~ chain link fence; and place crash walls at all existing and new bent locations next to railroad tracks, as required by railroad guidelines.

Section 13.4.7 “Devore OH Right (Widen), Br No. 54-0818R” is modified as indicated below:

13.4.7 Devore OH Right (Widen), Br No. 54-0818R

Widen existing 3-span PC/PS Concrete I-girder to the right using PC/PS Concrete girders; Seismic retrofit the existing structure; and strengthen bent cap for full permit rated capacity. Remove existing Type 1 barrier rails and existing overhangs; construct~~replace~~ overhang and ~~replace~~ barrier rails with new Department approved barrier rails with ~~and~~ chain link fence; and place crash walls at all existing and new bent locations next to railroad tracks, as required by railroad guidelines.

Section 13.4.8 “Glen Helen Parkway UC –Right (Widen), Br. No. 54-0779R” is modified as indicated below:

13.4.8 Glen Helen Parkway UC –Right (Widen), Br. No. 54-0779R

Widen existing 3-span CIP/RC box girder to the left; seismic retrofit the existing structure; remove existing Type 1 barrier rails and existing overhangs; construct~~replace~~ overhang and ~~replace~~ barrier rails with new Department approved barrier rails and relocate the existing Fiber Optic line to the new barrier.

Section 13.4.9 "Glen Helen Parkway UC – Left (Widen), Br. No. 54-0779L" is modified as indicated below:

13.4.9 Glen Helen Parkway UC – Left (Widen), Br. No. 54-0779L

Widen existing 3-span CIP/RC box girder to the right. Seismic retrofit the existing structure, remove existing type 1 barrier rails and existing overhangs; construct~~replace~~ overhang and ~~replace~~ barrier rails with new Department approved barrier rails.

Section 13.4.10 "Glen Helen Road UC Right/Left (Median Widen), Br. No. 54-0780R/L" is modified as indicated below:

13.4.10 Glen Helen Road UC Right/Left (Median Widen), Br. No. 54-0780R/L

Widen existing 3-span CIP/RC box girder structures in the median thereby closing the gap between the left and right structure; Seismic retrofit the existing structures; remove existing Type 1 barrier rails and existing overhangs; construct ~~replace~~ overhang~~s~~ and replace barriers rails with new Department approved barrier rails; construct concrete Barrier Type 60SA in the median and relocate the existing fiber optic line to the new barrier. Repair spalls on concrete surfaces located on the Left bridge, south of N~~n~~umber 3 lane departure slab.

Section 13.4.11 "Devore Road OC (Replace), Br. No. 54-1307" is modified as indicated below:

13.4.11 Devore Road OC (Replace), Br. No. 54-1307

Remove existing 4-span CIP/RC box girder (Br. No. 54-0525) and existing single span CIP/PS box girder (Br. No. 54-0844Y) and replace both bridges with a new 3-span structure on a new alignment. Construct Type 732 (Modified) Concrete Barrier railing with chain link railing on the left edge of deck and Type 26 (Modified) concrete barrier railing with chain link railing on the right edge of deck and construct concrete Barrier Type 60SA to separate vehicles from bicycle lane. For specific structure architectural treatment requirements, the Design-Builder's attention is directed to ~~"~~Section 15 – *Exhibit 15-A*, ~~–~~ "*Structures Aesthetics Concept Plan*". Detail A". Gas line, water line and telephone line shall be carried by the new structure. For utility opening requirements refer to Section 6, "Utilities".

Devore Road OC shall be designed for fault rupture hazard using the following fault rupture displacement offsets: 1.3 ft lateral movement, and 0.2 ft vertical movement. Site specific surface fault rupture displacement hazards (SFRDH) analysis for structures crossing fault zones have been performed and provided in RID.

Section 13.4.13 "I-215 Devore Off-Ramp UC" is modified as indicated below:

13.4.13 I-215 Devore Off-Ramp UC

Construct new single span CIP/PS concrete box girder structure with Department approved barrier rails on a new alignment.

Section 13.4.14 “W-S Connector UC” is modified as indicated below:

13.4.14 W-S Connector UC

Construct new single span CIP/PS concrete box girder structure with Department approved barrier rails on a new alignment.

Section 13.4.15 “SB I-215 Connector” is modified as indicated below:

13.4.15 SB I-215 Connector

Construct new 7-span CIP/PS concrete box girder structure with Department approved barrier rails on a new alignment. The structure shall consist of two frames with a minimum frame length of 430 ft. The structure span configuration shall accommodate an~~provide~~ additional ~~46~~50 ft ~~clear span~~ parallel to the east of SB I-15 roadbed for future roadway pavement. Refer to Section 11.3.1 for Roadway Design Requirements.

Section 13.4.16 “NB I-15 Truck By-Pass over Kenwood Ave” is modified as indicated below:

13.4.16 NB I-15 Truck By-Pass over Kenwood Ave

Construct new 3-span CIP/PS concrete box girder structure with Department approved barrier rails on a new alignment.

The new bridge shall be designed for fault rupture hazard using the following fault rupture displacement offsets: 1.5 ft vertical movement (south side up). Site specific surface fault rupture displacement hazards (SFRDH) analysis for structures crossing fault zones have been performed and provided in RID.

Section 13.4.17 “SB I-15 Truck By-Pass over Kenwood Ave” is modified as indicated below:

13.4.17 SB I-15 Truck By-Pass over Kenwood Ave

Construct new 3-span CIP/PS concrete box girder structure on a new alignment. Construct Type 732 (Modified) concrete barrier railing at both left and right edge of deck. For specific structure architectural treatment requirements, the Design-Builder’s attention is directed to “Section 15 – *Exhibit 15-A -Structures Aesthetics Concept Plan, Detail A”*.

Section 13.4.18 “SB I-215 Mainline over Kenwood Ave” is modified as indicated below:

13.4.18 SB I-215 Mainline over Kenwood Ave

Construct new 5-span CIP/PS concrete box girder structure on a new alignment. Construct Type 732 (Modified) concrete barrier railing at both left and right edge of deck. For specific structure architectural treatment requirements, the Design-Builder’s attention is directed to “Section 15 – *Exhibit 15-A -Structures Aesthetics Concept Plan, Detail A*”.

Section 13.4.19 “Kimbark Canyon Bridge” is modified as indicated below:

13.4.19 Kimbark Canyon Bridge

Construct new 3-span CIP/PS concrete box girder structure with Department approved barrier rails on a new alignment.

Section 18 Maintenance of Traffic

Exhibit 18-A “Lane Closure Charts” are modified as shown in the attached Exhibit 18-A.

Section 19 Maintenance During Construction

Section 19.4.1 “Design-Builder’s Responsibilities” is modified as indicated below:

19.4.1 Design-Builder’s Responsibilities

The Design-Builder shall assume maintenance of the entire Project, except for those activities that will be performed by Department,- as specified in Section 19.4.2, commencing at 12:01 a.m. on the first Day after NTP2. This maintenance responsibility shall continue until 11:59 p.m. on the date of Final Acceptance by Department. In general, this maintenance will include-the required maintenance and repair of all Project facilities damaged by normal wear, forces of nature, events caused by any Design Builder entity, or acts of third parties. The areas/facilities to be maintained include both the areas/facilities under construction and the areas/facilities open to public traffic, including existing facilities. Contractor shall be responsible for all maintenance work normally performed by the Department for such facilities. The Design-Builder shall be responsible for maintenance of the following:

1. Temporary facilities,
2. Existing facilities that are to be later replaced or reconstructed as part of the Contract Work,
3. Existing facilities that are to remain,
4. Haul routes for Project materials,
5. Project detours initiated by the Design-Builder.

Maintenance on temporary or existing facilities to be replaced shall be performed to provide a safe, effective, and aesthetically pleasing transportation corridor.

Responsibilities of the Design-Builder included in the lump sum Contract Price, include the following:

- Develop and implement the Maintenance Management Plan,
- Maintain existing pavements,
- Repair of shoulder drop-offs,
- Replacement/repair of existing asphalt shoulders if used for temporary traffic control or hauling,
- Replacement/Repair of temporary roadways and crossovers,
- Replacement/repair of traffic attenuators,

- Maintenance of temporary delineators, temporary signing, and temporary pavement marking,
- Drainage/erosion control maintenance related to construction activities,
- Repair or replacement of existing facilities damaged by construction operations,
- Maintenance of haul routes,
- Temporary lighting, communication and signal system maintenance,
- Fence maintenance including Right of Way fencing and temporary fencing,
- Weed control,
- Roadside signs,
- Litter removal, sweeping and general housekeeping,
- Removal of Graffiti,
- Maintenance of storm sewer system related to construction activities,
- Replacement/repair of temporary and permanent barrier wall,
- Maintenance of traffic control devices displaced by Department's snow removal efforts, if supplied by the Design-Builder,
- Landscaping areas identified as protect and maintain.

The list is not intended to be an all-inclusive description of maintenance activities required to be performed under the Contract Documents. Furthermore, various provisions of the Contract Documents contain requirements applicable to maintenance activities.

The list of maintenance activities noted above do not cover construction-related maintenance, construction –related maintenance is deemed to be included with other items of work and is therefore covered by the Contract Price allocable to such other items of work.

Should the Design-Builder fail to perform any of the required project maintenance activities, the Department reserves the right to perform such work at the Design-Builder's expense.

Design Builder will conduct a pavement evaluation based on deflection testing of County of San Bernardino maintained roads affected by construction or detours needed for construction prior to start of project construction. Design Builder will maintain affected road pavements and will conduct another pavement evaluation at the end of construction period to rehab and repair any damage on the affected streets cause by detour or construction traffic. Rehabilitation and/or repairs of County of San Bernardino maintained roads will be performed to County standards and calculations shall be submitted to County for review and approval.

REFERENCE INFORMATION DOCUMENTS (RID)

See revised RID Index for a list of provided Reference Information Documents in the Data Room.

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EXHIBIT 6-B

UTILITY TRACKING REPORT (Last update: 5/3/2012)					
UTILITY DISPOSITION	**UTILITY**	**APPROX. STATION FROM**	**APPROX. STATION TO**	**APPROX. LENGTH (LF)**	**NOTES**
	Dement St. (I-215), 'DEM' Line				
Protect in Place	SCG 4"/6" Gas Line (Xing I-215)	24+50.0	28+00.0	365	
Extend Casing	SCG 4"/6" Gas Line (Xing I-215)	24+50.0	24+50.0	18	Extend 10" casing to edge of R/W
Relocate	SCE OH (Xing I-215, 2 wood poles w/12kV Lines; 3 circuits)	19+00.0	19+00.0		Shift poles by the amount that Dement St is being shifted.
Relocate	Verizon OH - 2 lines	29+00.0	29+00.0		Pole in center of proposed Dement St alignment.
Extend Casing	Verizon, Sprint FOC - 4-2" conduits in 30" Sleeve (Xing I-215)	19+50.0	19+50.0	35	Extend 30" casing to edge of R/W
Extend Casing	Verizon Business (MCI) 2-4" Conduits in 30" Sleeve (Xing I-215)	19+00.0	19+00.0	55	Extend 30" casing to edge of R/W
Relocate	Verizon Business (MCI) 1-4" conduit	19+00.0	28+00.0	1,050	Relocate into new Dement align.
Protect in Place	Verizon, Sprint FOC UG (4-2" conduits)	19+50.0	30+50.0	1,190	
Protect in Place	Verizon Business (MCI) 1-4" conduit	28+00.0	30+50.0	190	NW end of Demont
Protect in Place	Verizon UG telephone	17+00.0	26+00.0	900	
Protect in Place	SCE UG Single Circuit Cable	26+50.0	26+50.0		
Relocate	SCE Poles (26+00, 27+50, 29+00)				3 poles. 26+00 may be a Verizon pole.
Protect in Place	SCE Poles	15+00.0	27+50.0		Check to make sure not in new Dement align. Also check guying (existing) for conflicts.
	Devore Road Bridge, 'DEV' Line				
Relocate	8" DWC Water	10+00.0	22+00.0	872	Relocate into new Devore Road OC. Includes a service line on the southeast corner of the bridge.
Relocate	Verizon 4 Conduits Telco UG	9+80.0	21+00.0	872	Relocate into new Devore Road OC
Protect in Place	TWT & L3, 6-2" Conduit HDPE in 20" Sleeve	9+80.0	20+00.0	872	
Relocate	SCE Poles (20+50, 22+10)	20+50.0	22+10.0		May affect guying on pole N of 22+10 as well. May be able to abandon if line is no longer needed on Arrowhead Blvd.
	N/o Devore Rd Bridge & E/o I215, 'D2' Line				
Relocate	SCG 2" Gas Line	410+50.0	414+00.0	310	In Arrowhead Blvd. May be able to abandon.
Relocate	DWC 2" Water Line	410+30.0	416+00.0	520	In Arrowhead Blvd. May be able to abandon.
Relocate	SCE OH & Verizon Telco, Poles & anchors	410+50.0	417+50.0		In Arrowhead Blvd. Would be best to abandon this (Remove), rather than save with a R/W line shift, because it helps with other relocs.
	E/o I215 & S/o I15 ('SF' and 'MRN' Lines)				
Protect in place	SCE OH poles & anchors (from end of Santa Fe)				Also includes OH telephone (V) and TV lines.
Protect in place	SCG 2" Gas Line (end of Sante Fe Ave.)	10+00.0	12+00.0		
Protect in place	4" Water Line (end of Sante Fe Ave.)	10+00.0	12+00.0		
Relocate	SCE OH & 2 poles & anchors (end of Marion Ave.)				Also includes OH telephone (V) and TV lines.
Relocate	DWC 1.25" Steel Water Line (end of Marion Ave.)			10	Cap end.
Relocate	DWC 2" Steel Water Line (end of Marion Ave.)			10	Cap end.

UTILITY TRACKING REPORT (Last update: 5/3/2012)					
UTILITY DISPOSITION	**UTILITY**	**APPROX. STATION FROM**	**APPROX. STATION TO**	**APPROX. LENGTH (LF)**	**NOTES**
Relocate	SCG 2" Gas Line (end of Marion Ave.)			60	Remove service connection
	Nedlee Ave, 'NED' Line				
Protect in Place	SCG 2" Gas Line	30+00.0	33+05.0	305	
Protect in Place	TWT and L3 6-2" Conduits HDPE	30+00.0	35+50.0	550	
Relocate	TWT and L3 6-2" Conduits HDPE	35+50.0	46+00.0	1,070	Relocate into new Nedlee Ave alignment
Protect/ Relocate	TWT/L3 6-2: Conduits HDPE in 20" steel sleeve (Xing I-15)	46+00	46+00.0	450	Existing portion in sleeve will be protected in place, but sleeve will need to be extended to R/W line.
Relocate	SCE & Verizon OH to Greenwood Ave (19 poles)	37+30.0	past Greenwood Ave	3,800	SCE stops at Greenwood. Verizion extends past end of Nedlee Ave and Greenwood, almost to Kenwood
Protect in Place	Sprint & Verizon 4 -2" Conduits PVC	30+00.0	35+00.0	500	
Relocate	Sprint & Verizon 4 -2" Conduits PVC	35+00.0	past Greenwood Ave	3,800	Extends past end of Nedlee Ave and Greenwood, almost to Kenwood
Protect in Place	Verizon Bus. (MCI) 1-4" Conduit PVC	30+00.0	35+00.0	500	
Relocate	Verizon Bus. (MCI) 1-4" Conduit PVC	35+00.0	past Greenwood Ave	3,800	Extends past end of Nedlee Ave and Greenwood, almost to Kenwood. There also is an empty casing crossing I-15 that will need to be extended.
Protect in Place	DWC 6" Water	30+00.0	32+60.0	260	
Protect in Place	DWC 10" Steel Sleeve	35+75.0	35+75.0		Empty sleeve
	Greenwood Ave, 'GND' Line				
Relocate	SCE OH I-15 Xing - Steel Lattice Poles & 3 circuits				Will cross on a slightly new alignment (Still from the end of Greenwood Ave). Currently working with SCE to finalize relocation plan.
	Kenwood Ave, 'KEN' Line				
Relocate	1 Manhole (Verizon)	786+00.0	786+00.0		Adjust height only
Protect in Place	SCG 2" PE Gas	779+50.0	779+50.0		Crosses Kenwood Ave.
Protect in Place	ATT 4" Multiduct	775+64.3	798+81.6	2,320	
Protect in Place	1 SCE Pole (Kenwood)	782+00.0	782+00.0		
Protect in Place	Verizon Business 1-4" conduit, 2-1 1/8" conduit	786+00.0	798+81.6	1,280	
Protect in Place	Sprint & Verizon 4-2" conduits	786+00.0	798+81.6	1,280	
	I-15 N/o Kenwood Ave, 'A4' Line				
Protect in Place	SCG 36" Gas Line	28+00.0	28+00.0		
Protect in Place	SCE OH Line Xing	37+00.0	37+00.0		
	Cajon Rd N/o Devore Rd, 'CAJ' Line				
Relocate	1 SCE Pole, btw Cajon Blvd and I-15	156+00.0	156+00.0		Pole conflicts with toe of I-15 fill slope
Protect in Place	Sprint, VB, WT; 4-4" conduits	139+50.0	146+00.0	650	May require some manhole adjustments
Protect in Place	VB 3-4" empty conduits	117+30.0	139+50.0	2,220	
Relocate	VB 3-4" empty conduits	117+30.0	117+30.0		Extend case on both sides of I-15
Protect in Place	Level 3/TWT 12-2"	106+25.0	146+00.0	3,980	May require some manhole adjustments.
Protect in Place	SCE UG 2-5" & 6" Conduits	136+50.0	146+00.0	950	May require some manhole adjustments

UTILITY TRACKING REPORT (Last update: 5/3/2012)					
UTILITY DISPOSITION	**UTILITY**	**APPROX. STATION FROM**	**APPROX. STATION TO**	**APPROX. LENGTH (LF)**	**NOTES**
Protect in Place	14" Oil Line - Kinder Morgan	75+00.0	146+00.0	7,300	
Protect in Place	14" Oil Line - Kinder Morgan	60+80.0	75+00.0		May require retaining wall at toe of slope along 'CD' Line
Protect in Place	8" Oil Line - Kinder Morgan	119+80.0	146+00.0	2,620	
Relocate	SCE - Relocate multiple poles outside of R/W	128+00.0	136+00.0		Poles are between Cajon Blvd and I-15. See relocation plans for SCE xing of I-15.
Protect in Place	SBMW - 16" Water line	76+00.0	93+00.0	1,650	
Relocate	SBMW - 16" Water line	58+00.0	76+00.0	2,210	Relocate, possibly into Cajon Blvd
Protect in Place	SBMW - 16" Water line	46+00.0	58+00.0	1,200	
Protect in Place	SBMW - 12" Water line	46+00.0	52+50.0	650	
Protect in Place	Verizon FO line	49+00.0	59+00.0	1,230	
Protect in Place	Verizon telephone line	49+00.0	59+00.0	1,230	
Protect in Place	SBMW - 24" Water line	48+00.0	55+00.0	700	
Protect in Place	SCE 1-5" Conduit	49+00.0	58+00.0	1,220	
	I-15, S of 15/215 IC, 'A1' line				
Protect in Place	SCE OH Lines Xing I-15	762+50.0	762+50.0		
Protect in Place	TWT, Verizon and VB lines in Glen Helen Parkway	780+00.0	780+00.0		
Extend Casings	SCG 2 36" Gas lines Xing under I-15	814+00.0	816+00.0		May need to extend casings
Protect in Place	VB 1-2" Conduit in Glen Helen Road	826+50.0	826+50.0		
Protect in Place	Verizon OH TV line on Glen Helen Road	826+50.0	826+50.0		
Protect in Place	Verizon 1-3" Telephone in Glen Helen Road	827+00.0	827+00.0		
Protect in Place	SCE 1-5" Conduit in Glen Helen Road	827+00.0	827+00.0		
Protect in Place	SCE OH line on Glen Helen Road and along I-15 (NB)	827+00.0	836+30.0		
Extend Casing	Kinder Morgan 8" oil line in 24" STL Casing E/o RR Xing	843+00.0	843+00.0	200	At RR Crossing
	Cajon Junction, 'CJNCT' Line				
Protect in Place	DWC 2" Water (South side), continues past end of street	10+00.0	20+11.94 and beyond	1,720	
Protect in Place	DWC 2" Water (North side)	10+00.0	18+00.0	2,210	May be abandoned already.
Protect in Place	SCE, V OH Electric, Telephone	10+00.0	20+11.9	1,340	
Relocate	SCE, V OH Electric, Telephone, next to 'CD' Line (5 poles)				Near Station 923+00 of 'CD' Line.
Protect in Place	Verizon Fiber Optic	10+00.0	20+11.94 and beyond	1,340	
Relocate	Verizon Fiber Optic, next to 'CD' Line			55	Near Station 923+00 of 'CD' Line. Relocate into new driveway.
	Cajon Rd S/o Devore Rd. 'CAJ' Line				
Relocate	SCE, Verizon OH, 5 wood poles & anchors	45+50.0	47+50.0		Relocate outside of planned intersection
Relocate	SCE, Verizon OH, 1 pole, N side of street	43+50.0	43+50.0		

UTILITY TRACKING REPORT (Last update: 5/3/2012)					
UTILITY DISPOSITION	**UTILITY**	**APPROX. STATION FROM**	**APPROX. STATION TO**	**APPROX. LENGTH (LF)**	**NOTES**
Relocate	SCE, 6 poles, N side of street	39+00.0	41+00.0		Line heads toward fwy, paralleling gas line. Relocate outside new R/W or may just remove.
Protect in Place	SBMW 16" Water Steel	33+09.0	49+00.0	1,600	
Protect in Place	DWC 8" Water	40+50.0	49+00.0	860	
Protect in Place	SBMW 12" Water	37+50.0	49+00.0	1,150	Crosses Cajon Blvd at 37+50 and reduces to 6" line
Protect in Place	SBMW 24" Water DIP	33+09.0	49+00.0	1,600	
Protect in Place	Verizon Telco OH (S side of street)	38+50.0	44+50.0	600	
Protect in Place	Charter fiber optic OH (S side of street)	33+09.0	49+00.0	1,600	
Protect in Place	Verizon fiber optic (2 conduits), S side of street	33+09.0	49+00.0	1,600	
Protect in Place	SCG 16" Gas	33+09.0	38+20.0	520	
Relocate	SCG 6" Gas	38+00.0	41+00.0	470	Move outside of new R/W. Extend casing at I-215 freeway. Relocate reg. station at end of new ramps. May relocate into new Devore OC.
Protect in Place	SCG 4" Gas	33+09.0	38+20.0	520	
Protect in Place	6" Water	33+09.0	37+50.0	492	
	I-215 South of I-15, 'B1' Line				
Relocate	MCI 2-4" conduits in 30" sleeve	897+50.0	897+50.0	130	Extend casing on each side of freeway
Relocate	Sprint & Verizon, 4-2" Conduits in 30" sleeve	898+00.0	898+00.0	130	Extend casing on each side of freeway
Relocate	SCE pole, Xing I-215	897+50.0	897+50.0		Move poles on each side outside of R/W.
Relocate	SCE pole, S side of freeway	867+70.0	867+70.0		Relocate pole outside of new R/W

Notes
- Distances and stations are approximate. Design-Builder to verify exact locations.
- Stations reference to the alignment called out by the heading of a section, as found on the Preliminary Engineering Drawings
- Abbreviation definitions are found on the utility plan sheets

Exhibit 6-C: Utility Plan Sheets

DIst	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NO. EXP. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ABBREVIATIONS

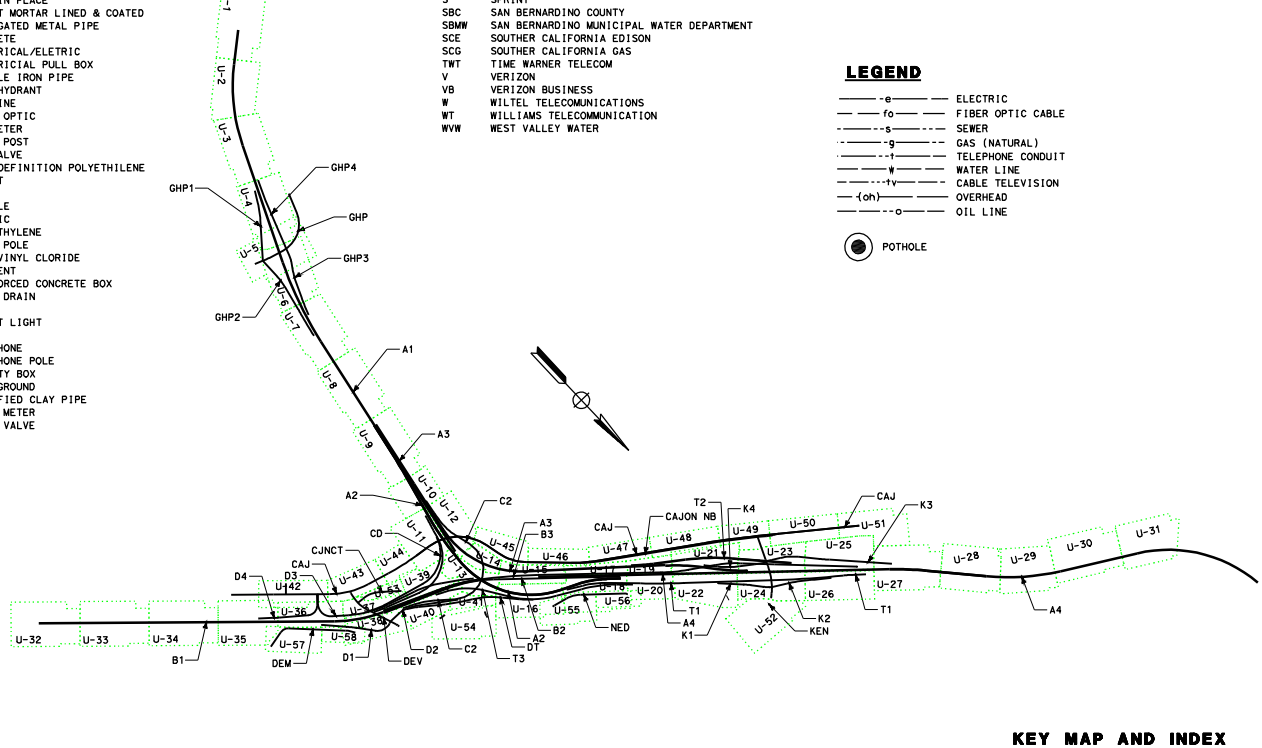
AC	ASPHALT CONCRETE OR ASBESTOS CEMENT
ACP	ASBESTOS CEMENT PIPE
ASPH	ASPHALT
AV	AIR.VACUUM RELEASE VALVE
BO	BLOW OFF
C	CONDUIT
CATV	CABLE TELEVISION
CIP	CAST IN PLACE
CMLC	CEMENT MORTAR LINED & COATED
CMP	CORRIGATED METAL PIPE
CONC	CONCRETE
ELEC	ELECTRICAL/ELETRIC
EPB	ELECTRICIAL PULL BOX
DIP	DUCTILE IRON PIPE
FH	FIRE HYDRANT
FL	FLOWLINE
FO	FIBER OPTIC
GM	GAS METER
GP	GUARD POST
GV	GAS VALVE
HDPE	HIGH DEFINITION POLYETHILENE
INV	INVERT
LT	LIGHT
MH	MANHOLE
P	PLASTIC
PE	POLYETHYLENE
PP	POWER POLE
PVC	POLY VINYL CLORIDE
PVMT	PAVEMENT
RCB	REINFORCED CONCRETE BOX
SD	STORM DRAIN
ST	SREET
ST LT	STREET LIGHT
STL	STEEL
TELE	TELEPHONE
TP	TELEPHONE POLE
UB	UTILITY BOX
UG	UNDERGROUND
VCP	VITRIFIED CLAY PIPE
WM	WATER METER
WV	WATER VALVE

OWNERS ABREBIATIONS

ATT	AMERICAN TELEPHONE AND TELEGRAPH (PACIFIC TELEPHONE, SBC)
CC	CHARTER COMMUNICATIONS (CABLE TV)
CSB	CITY OF SAN BERNARDINO
DWC	DEVORE WATER COMPANY
KM	KINDER MORGAN
L3	LEVEL 3
MCI	MCI TELECOMMUNICATIONS
S	SPRINT
SBC	SAN BERNARDINO COUNTY
SBMW	SAN BERNARDINO MUNICIPAL WATER DEPARTMENT
SCE	SOUTHER CALIFORNIA EDISON
SCG	SOUTHER CALIFORNIA GAS
TWT	TIME WARNER TELECOM
V	VERIZON
VB	VERIZON BUSINESS
W	WILTEL TELECOMUNICATIONS
WT	WILLIAMS TELECOMMUNICATION
WVW	WEST VALLEY WATER

LEGEND

—e—	ELECTRIC
—fo—	FIBER OPTIC CABLE
—s—	SEWER
—g—	GAS (NATURAL)
—t—	TELEPHONE CONDUIT
—w—	WATER LINE
—tv—	CABLE TELEVISION
—(oh)—	OVERHEAD
—o—	OIL LINE
	POTHOLE



KEY MAP AND INDEX

NO SCALE

K-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-04-12

DATE PLOTTED => 13-APR-2012

TIME PLOTTED => 10:47

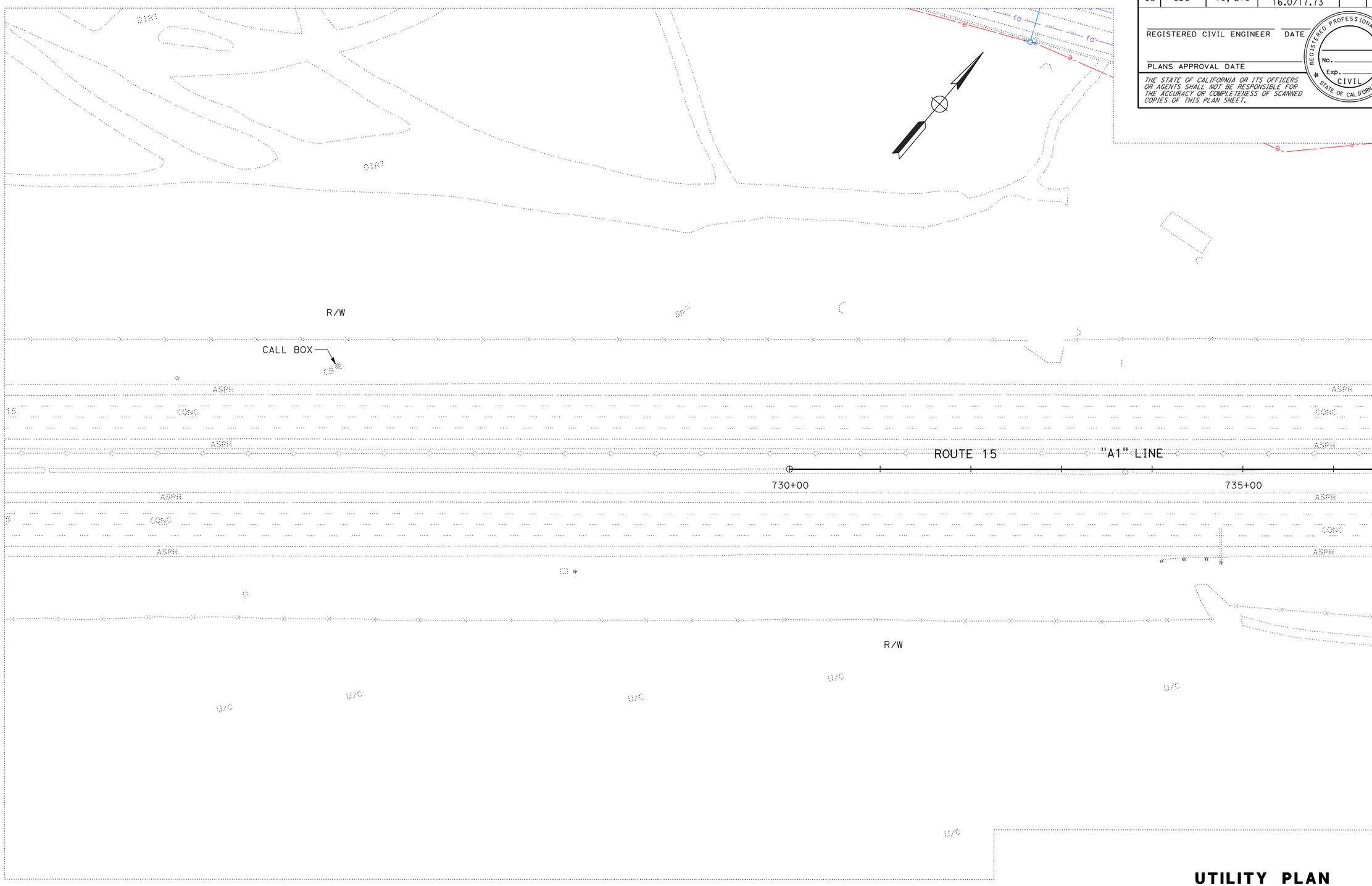
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

FUNCTIONAL SUPERVISOR: JESUS PAEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-04-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 10:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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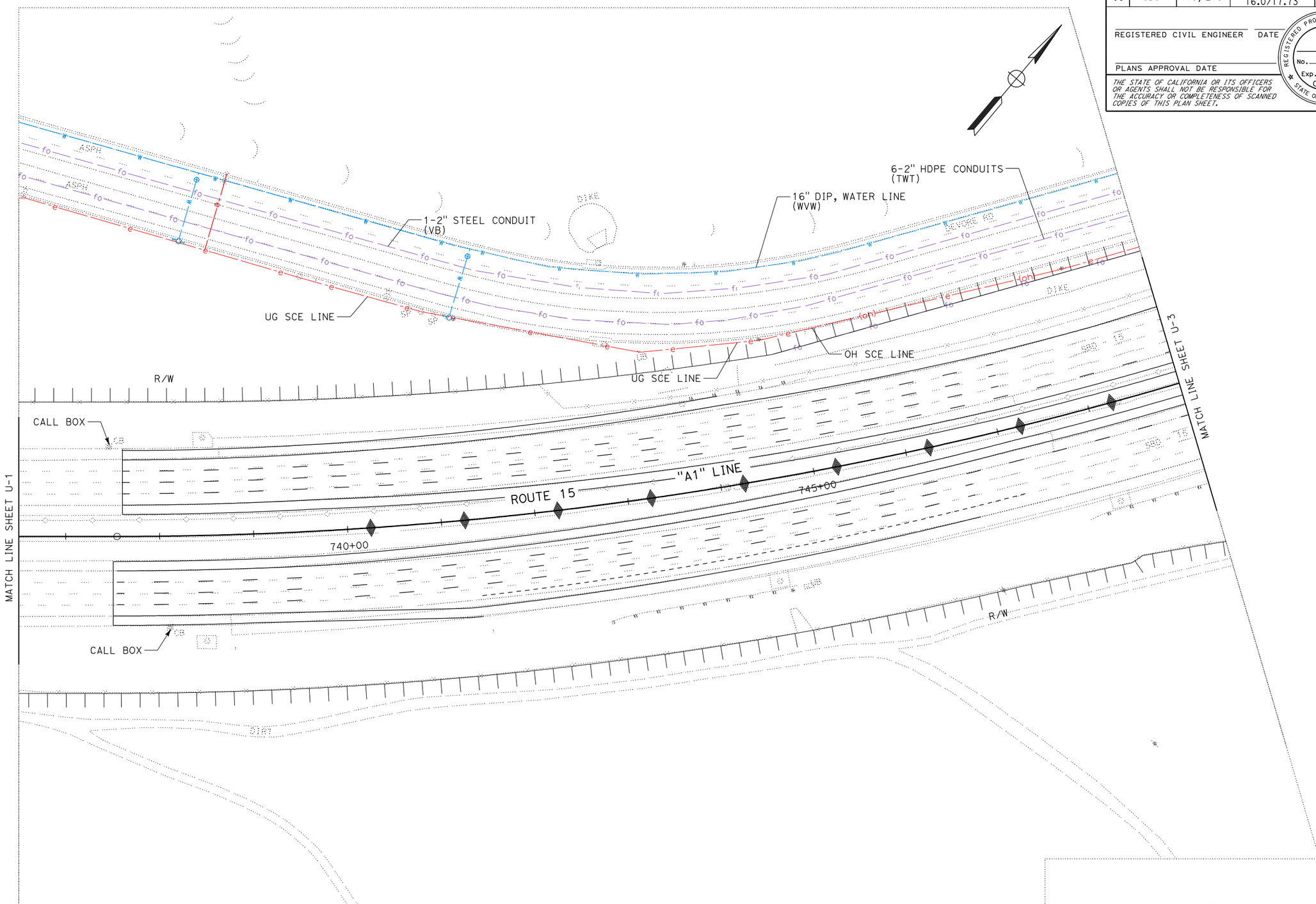


THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-04-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 10:55

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

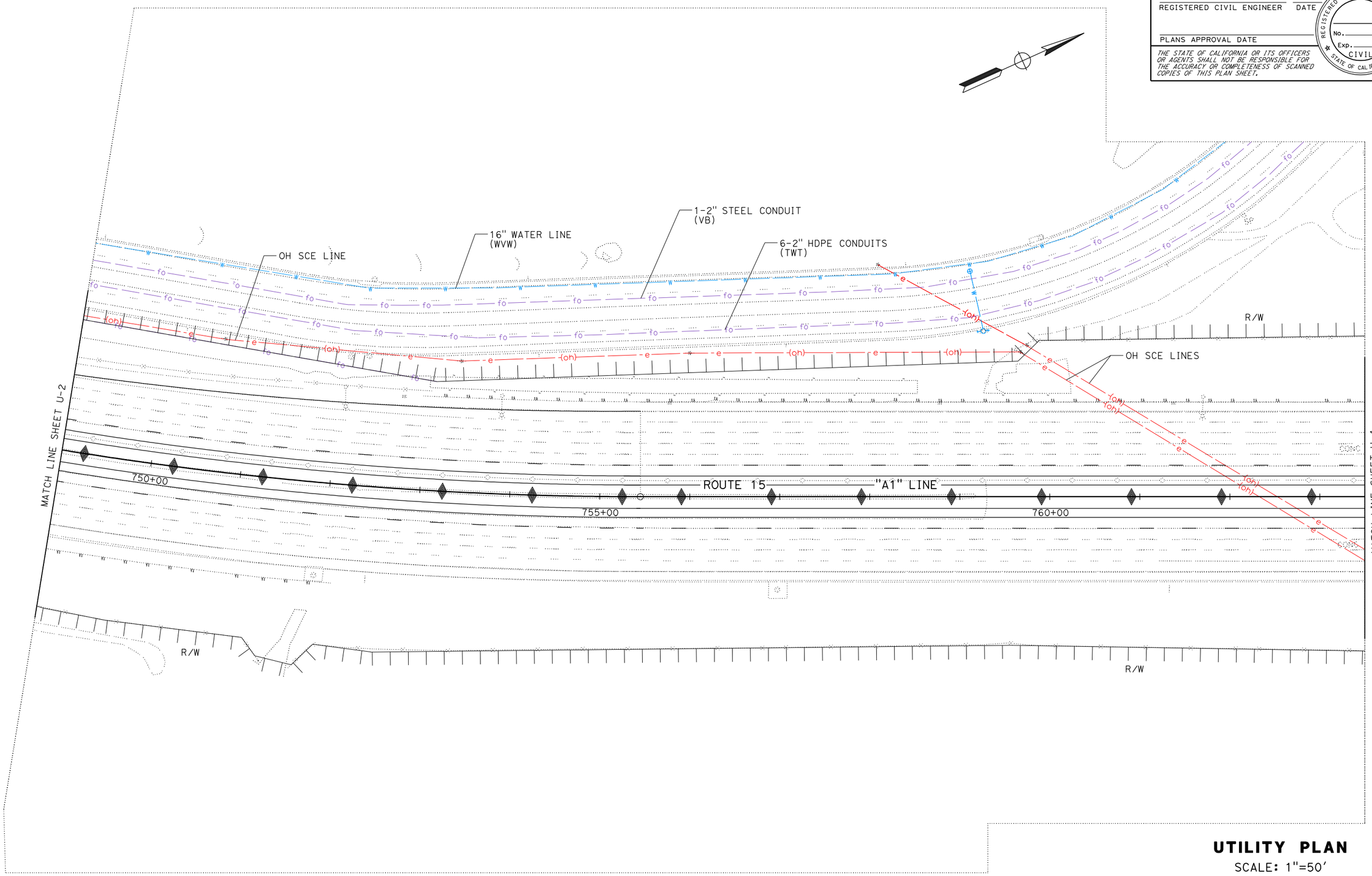
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



UTILITY PLAN

SCALE: 1"=50'

U-3

THIS PLAN FOR UTILITY INFORMATION ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-04-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 10:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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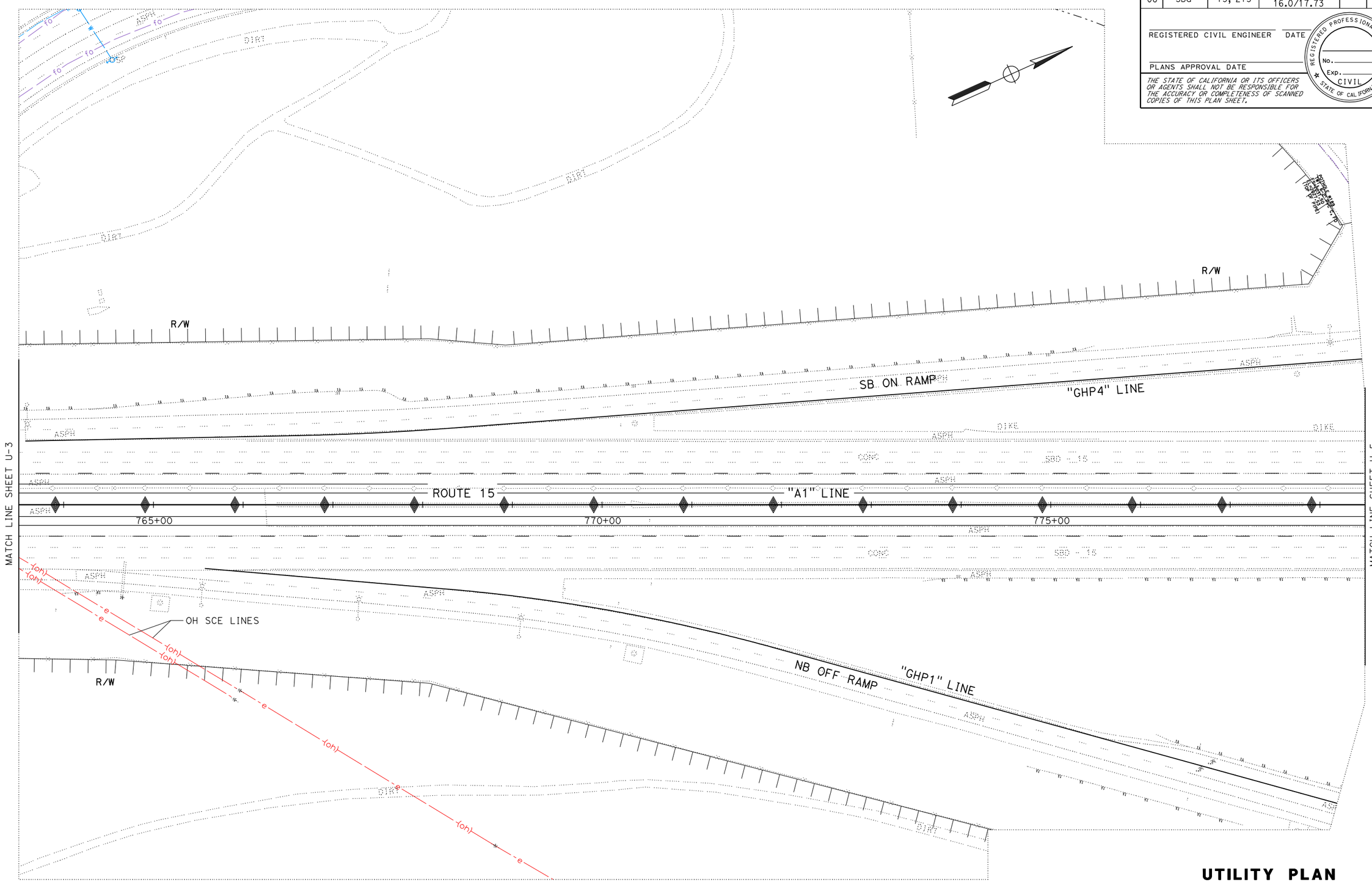


THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-04-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:00

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka004.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

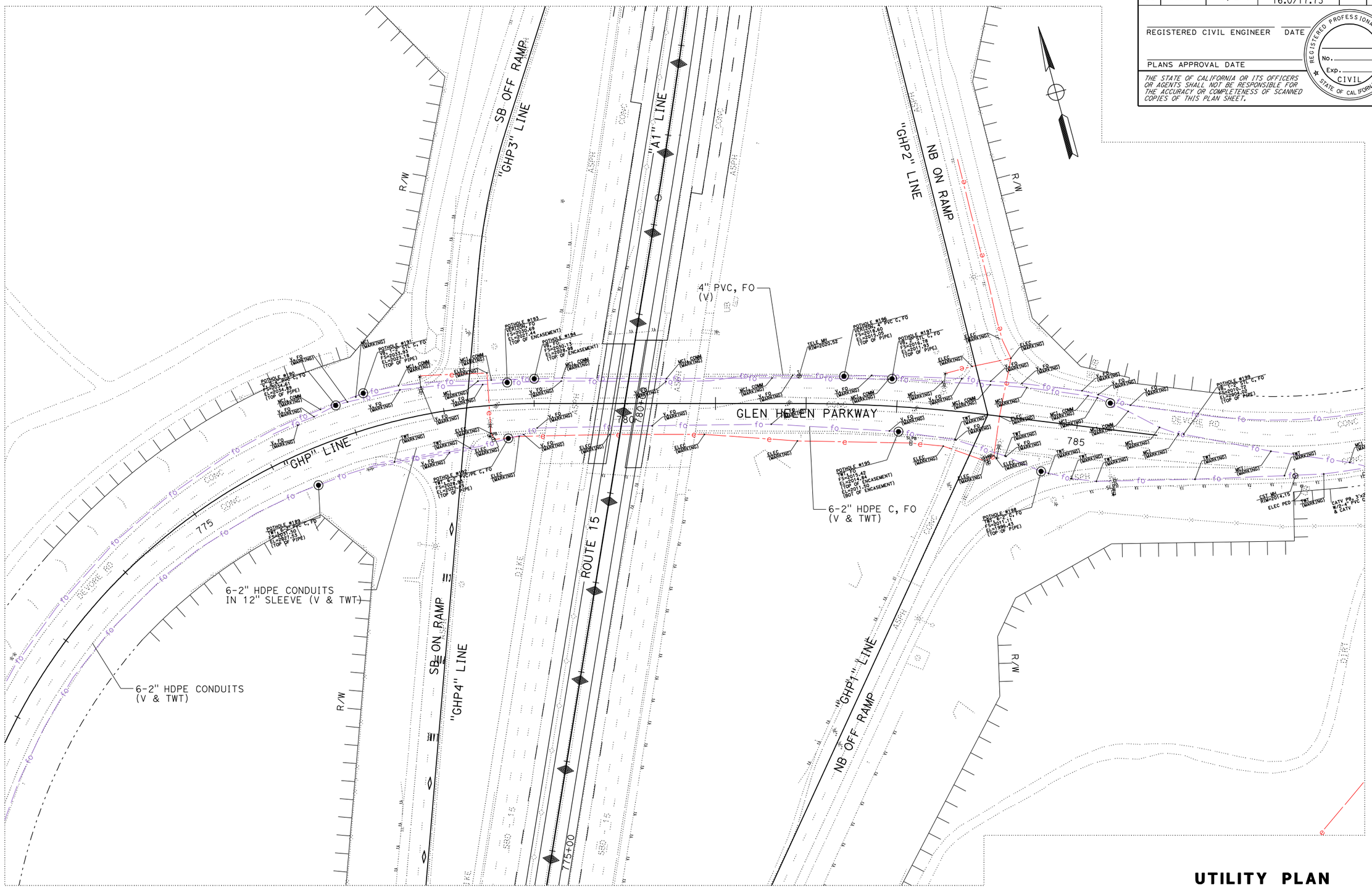
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:01

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka005.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

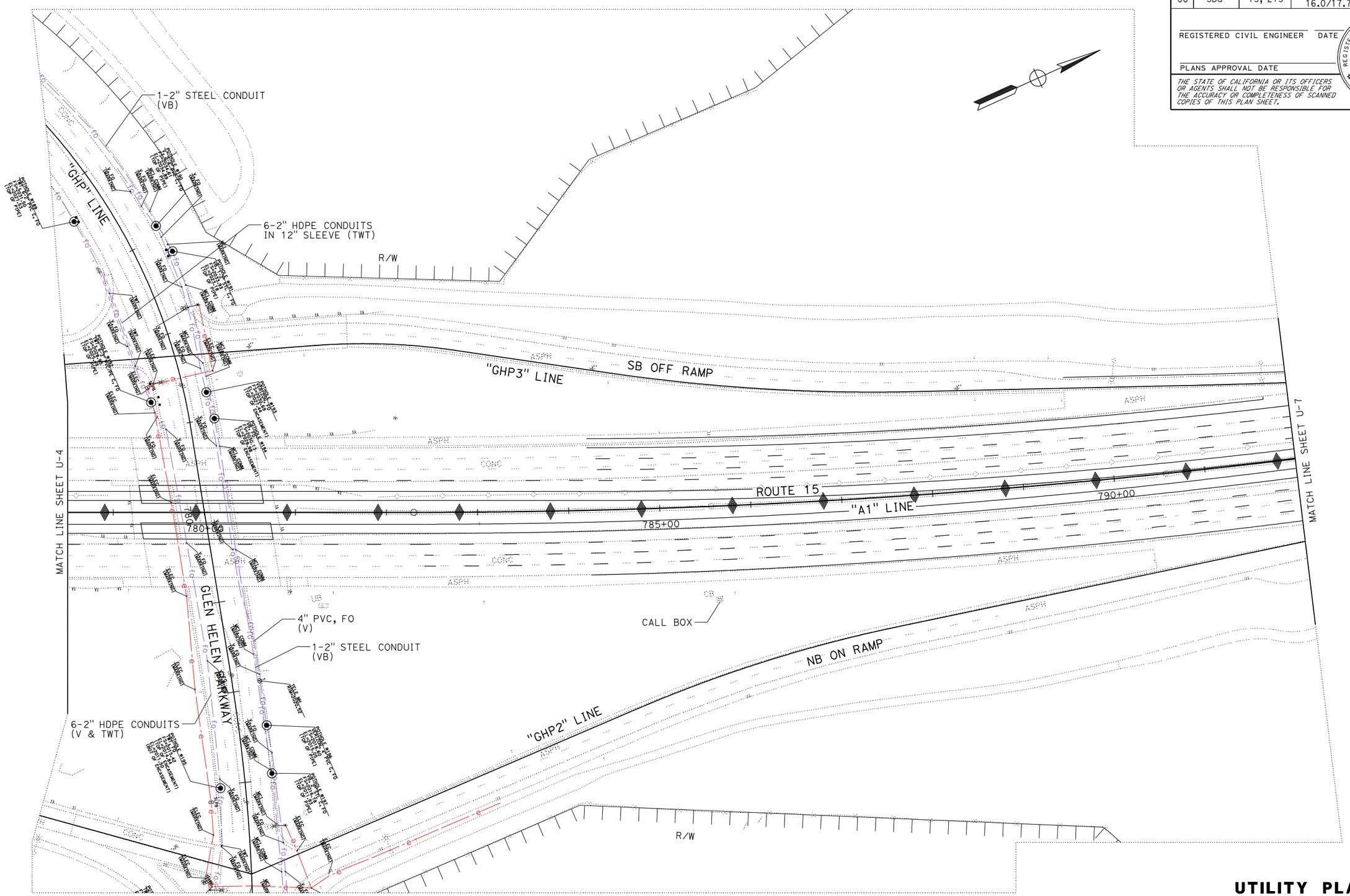
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:03

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka006.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

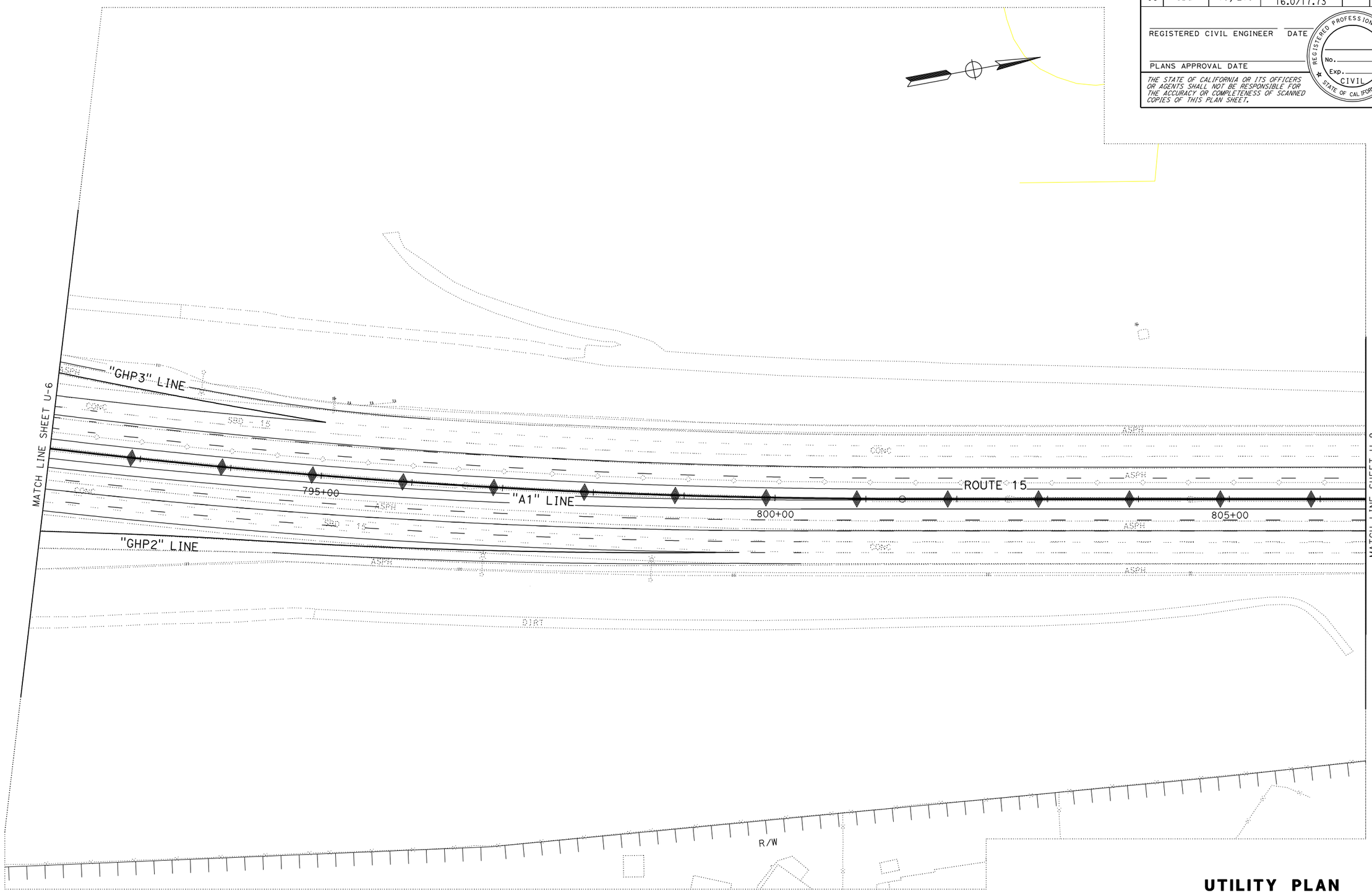
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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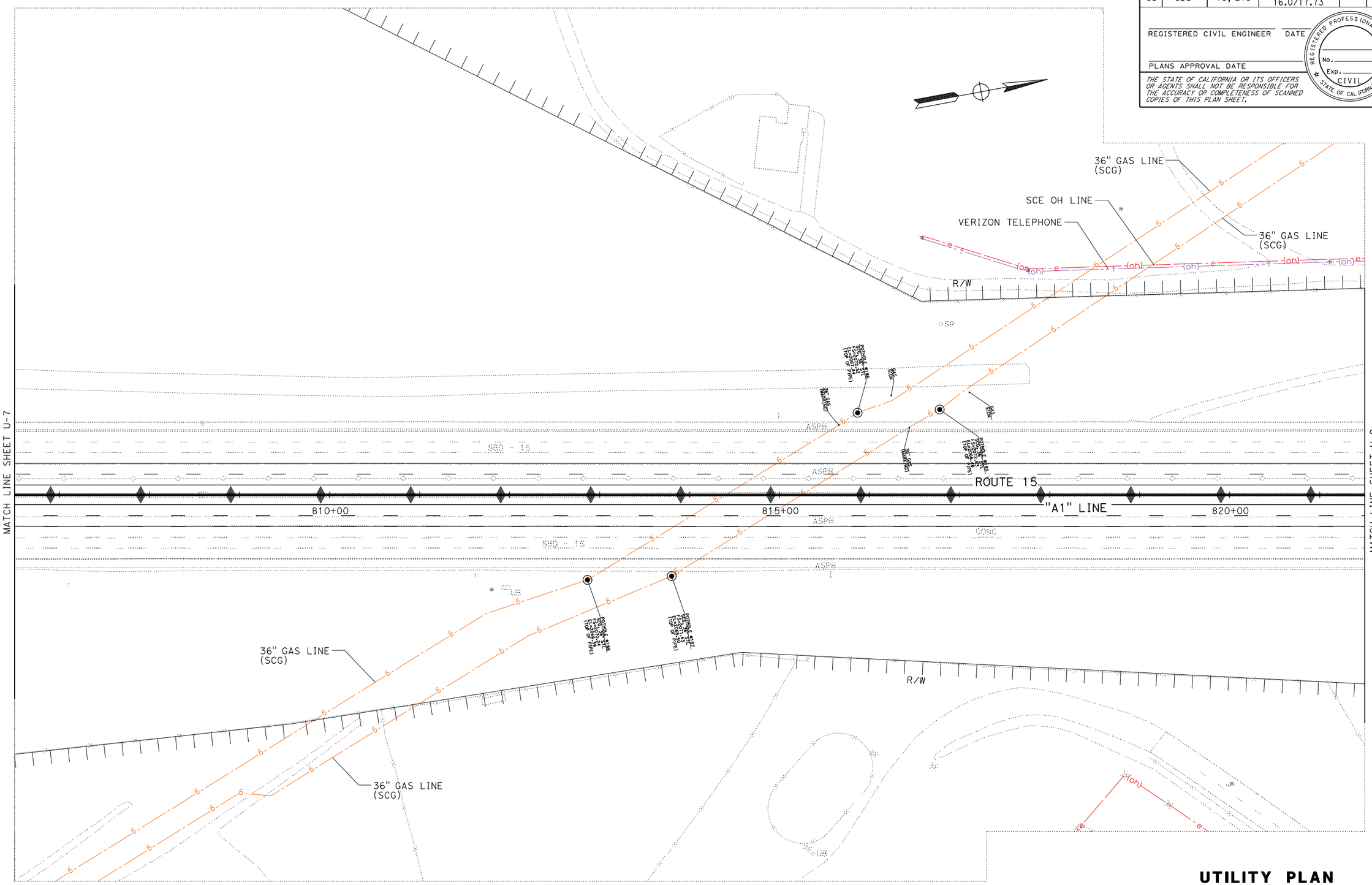


THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:34

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka008.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

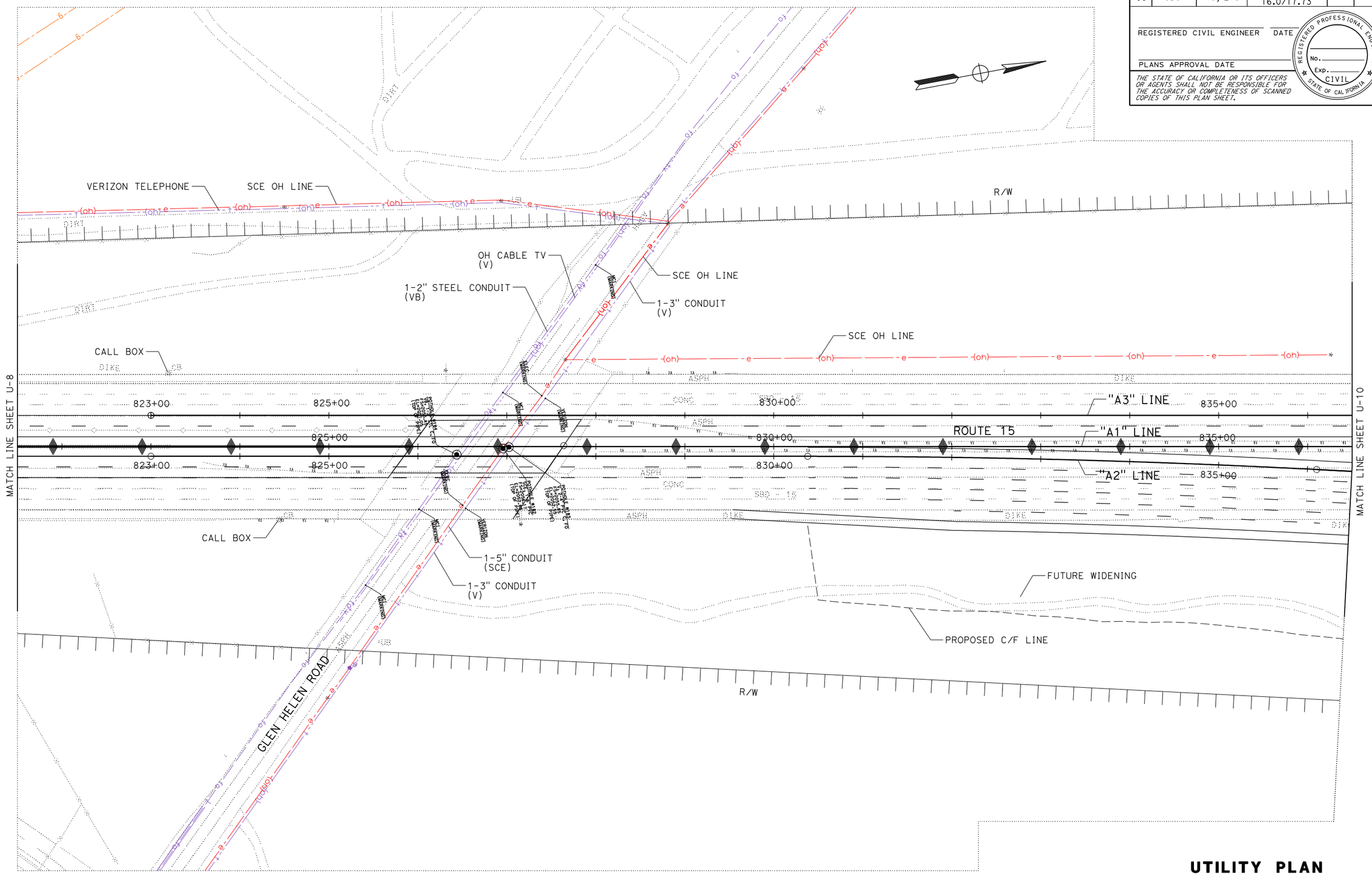
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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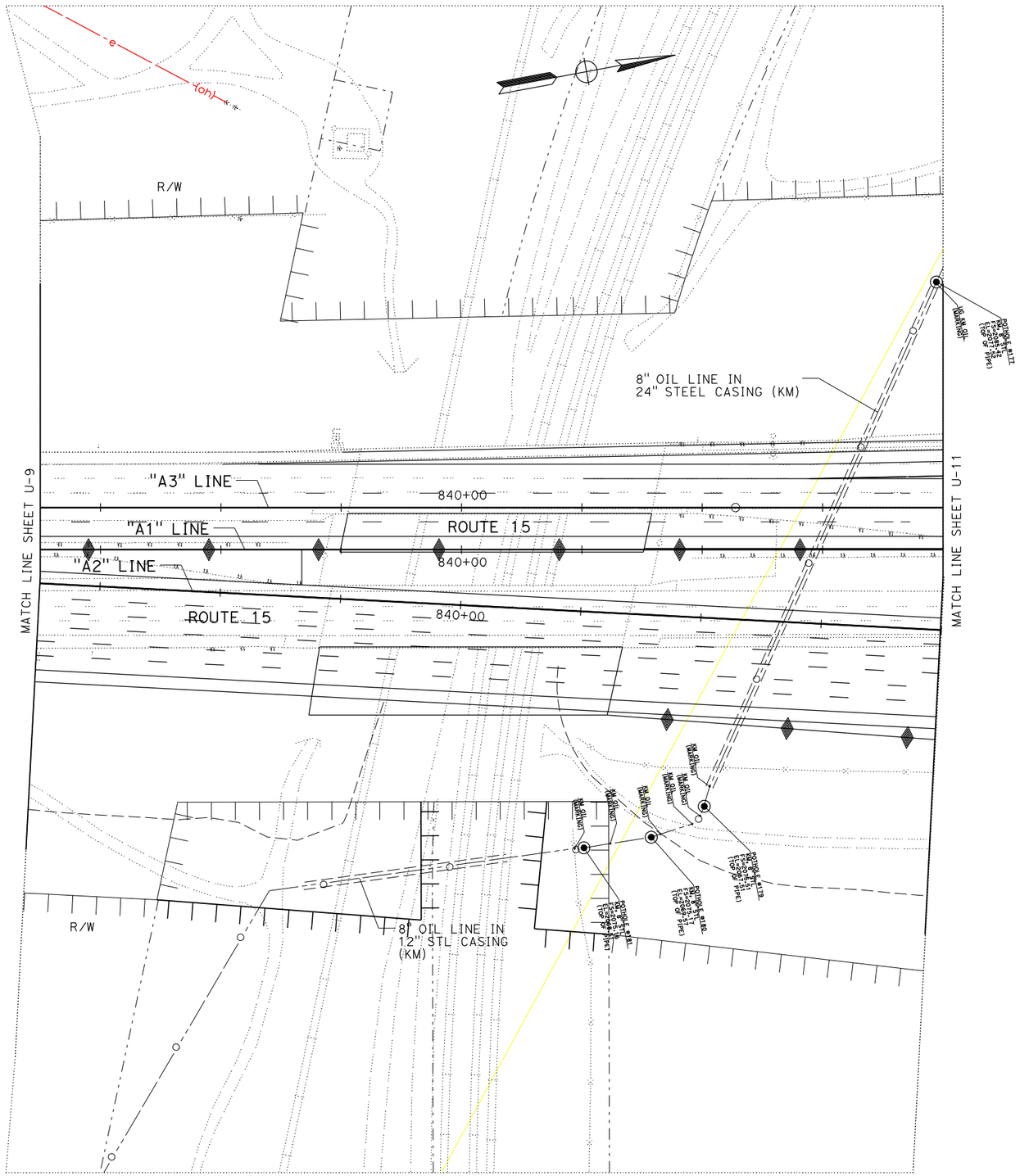

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:34

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka010.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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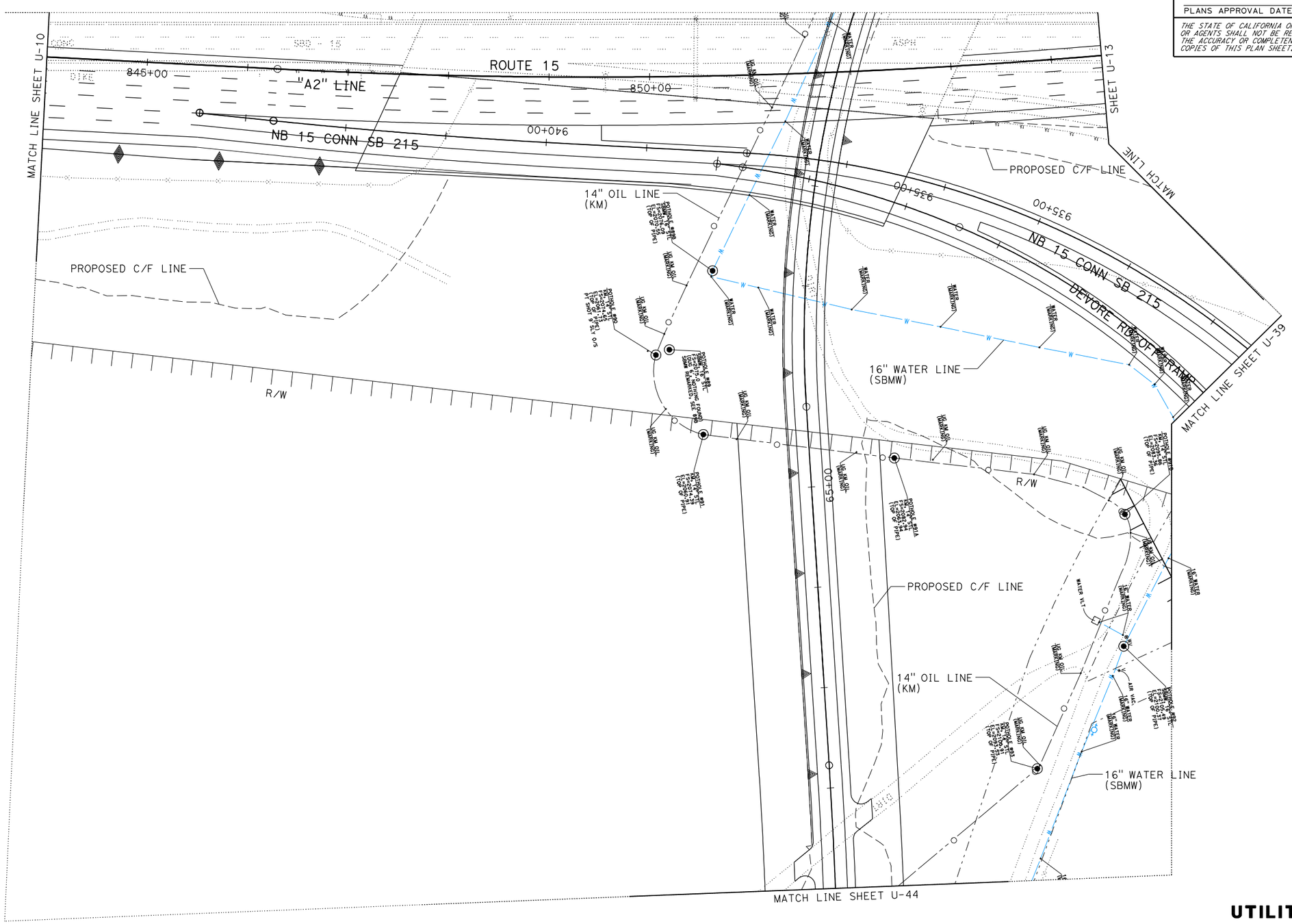

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012

TIME PLOTTED => 11:34

BORDER LAST REVISED 7/2/2010

USERNAME => s111075

DGN FILE => 080k710ka011.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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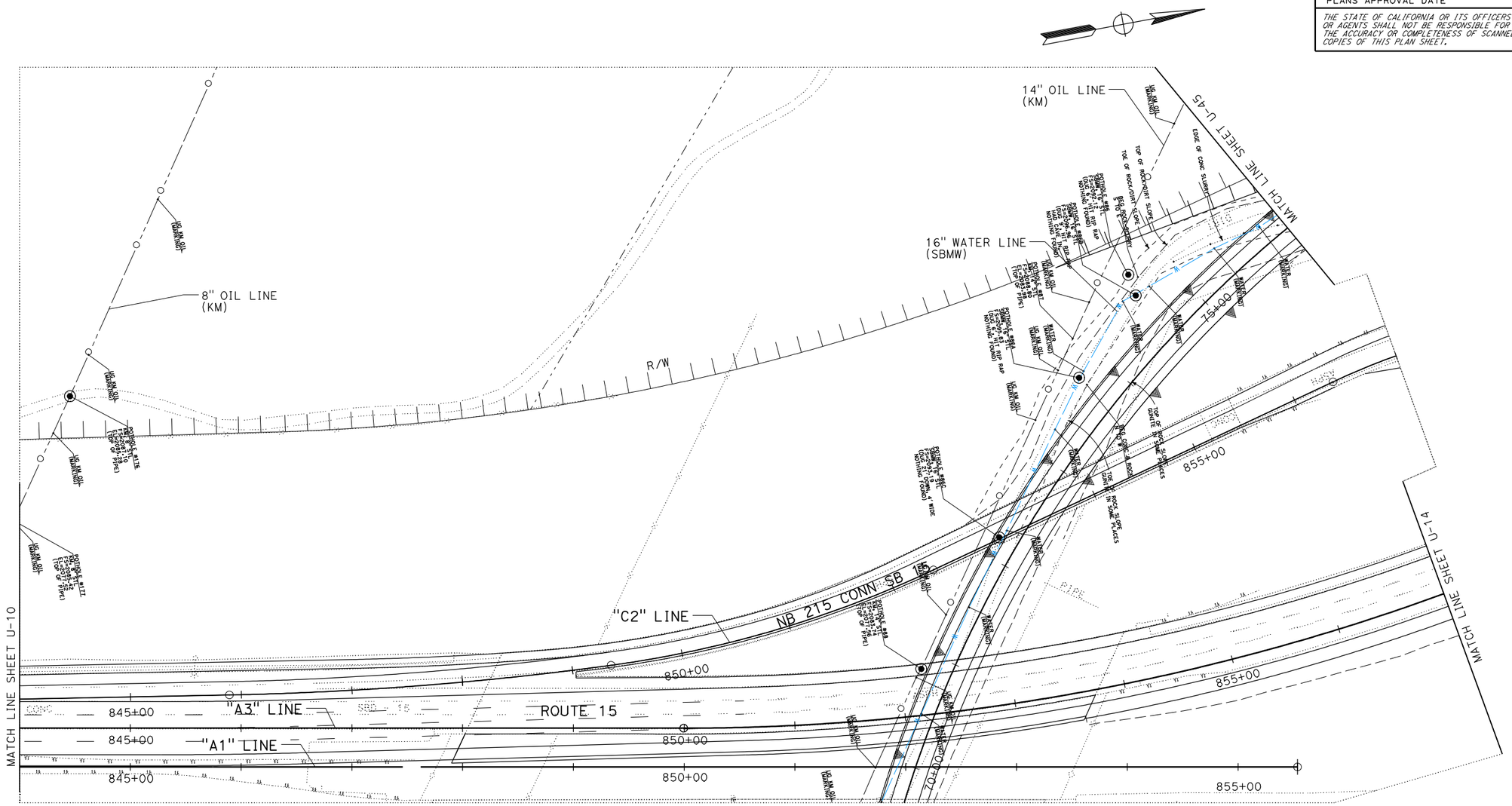

UTILITY PLAN

SCALE: 1"=50'

U-12

THIS PLAN FOR UTILITY INFORMATION ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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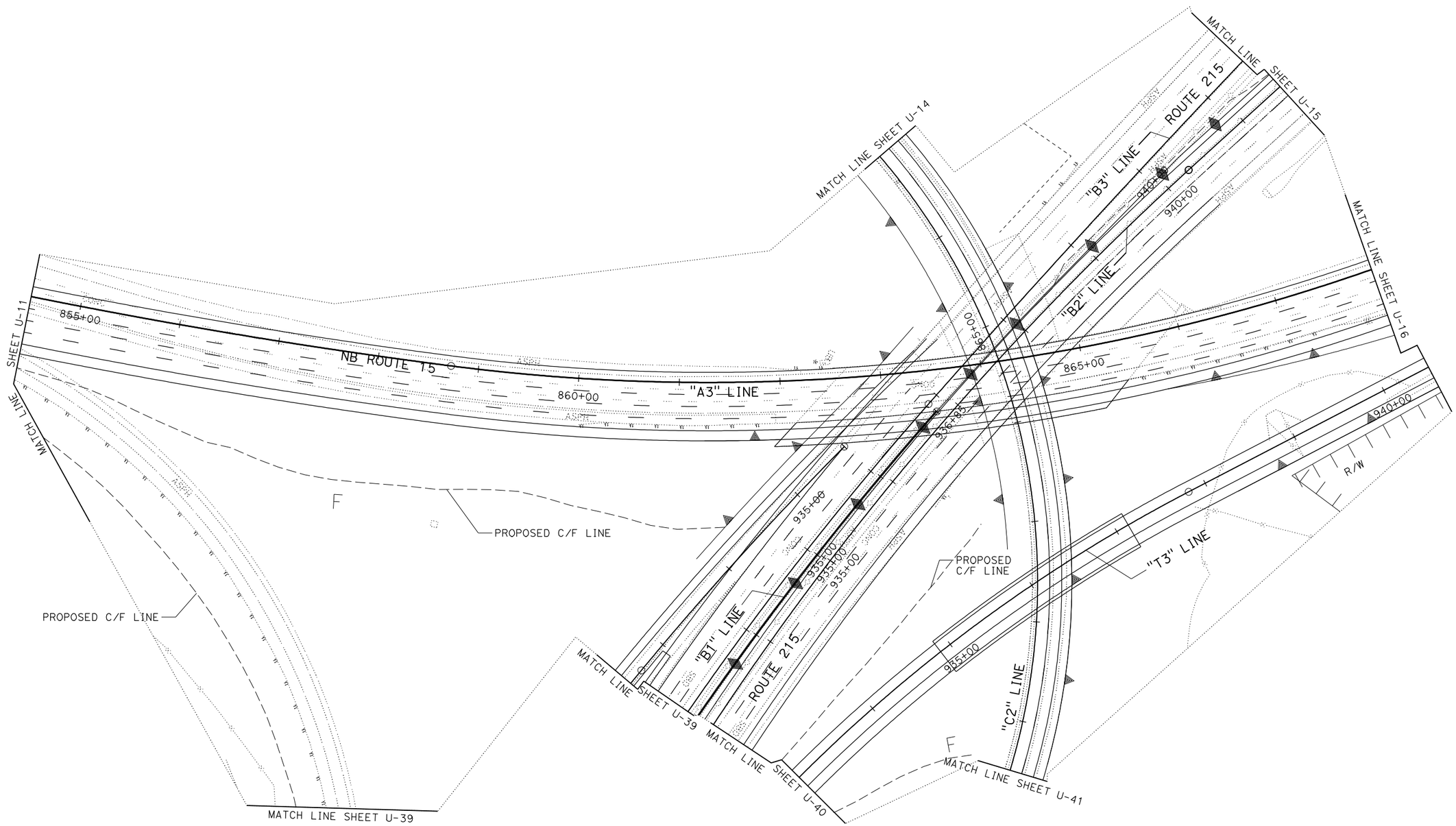


THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:34

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka013.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

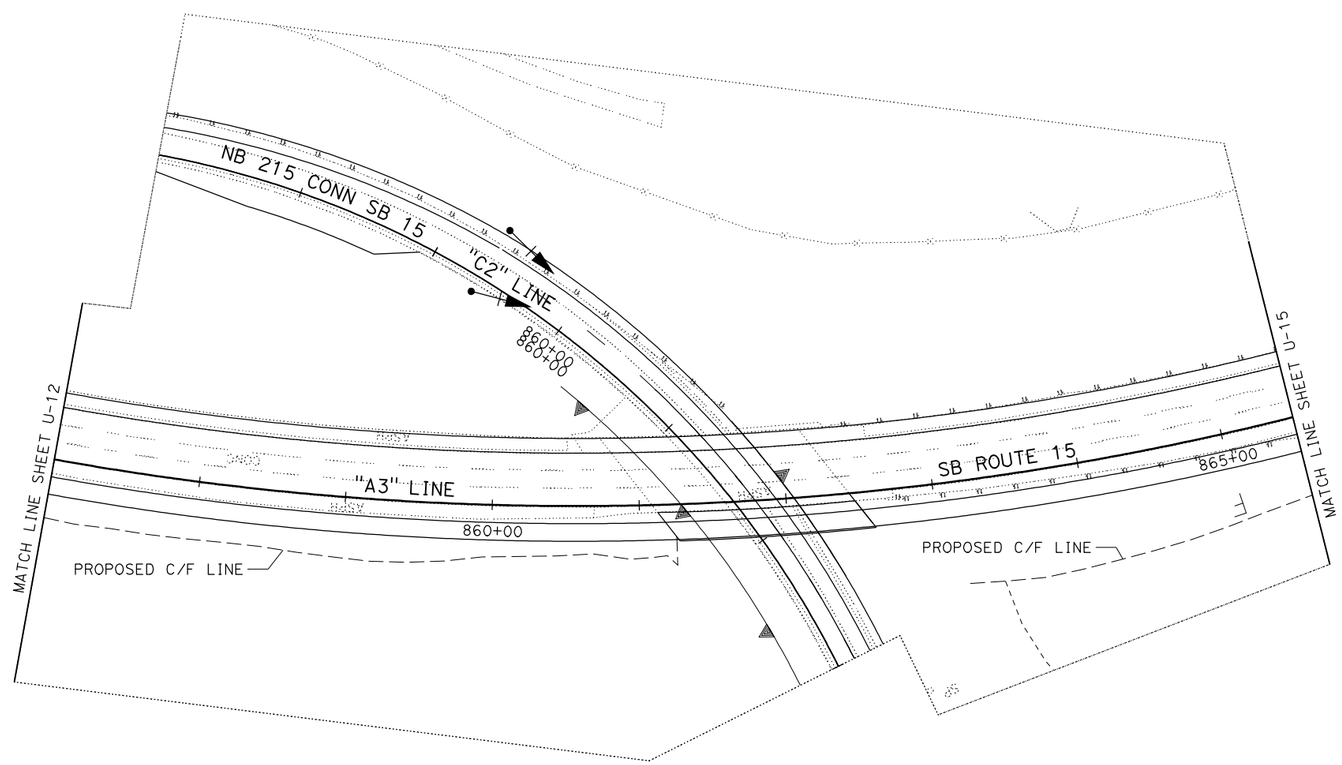
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



UTILITY PLAN

SCALE: 1"=50'

THIS PLAN FOR UTILITY INFORMATION ONLY

U-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:34

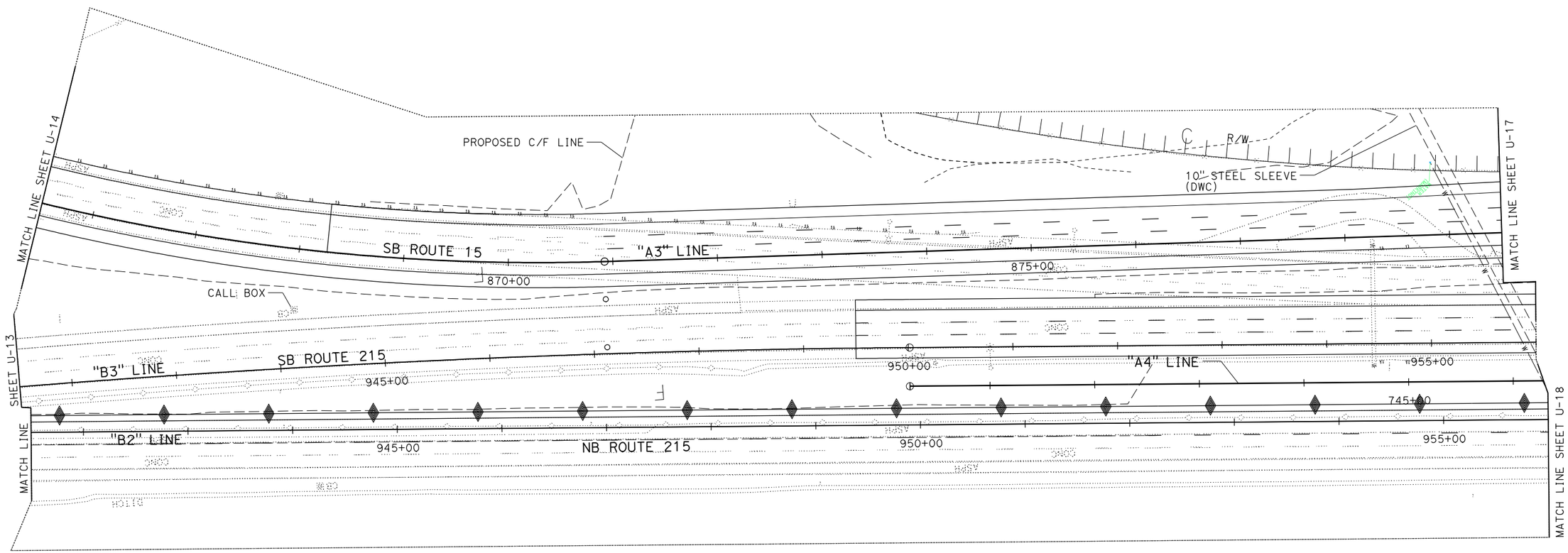
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:34

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka015.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

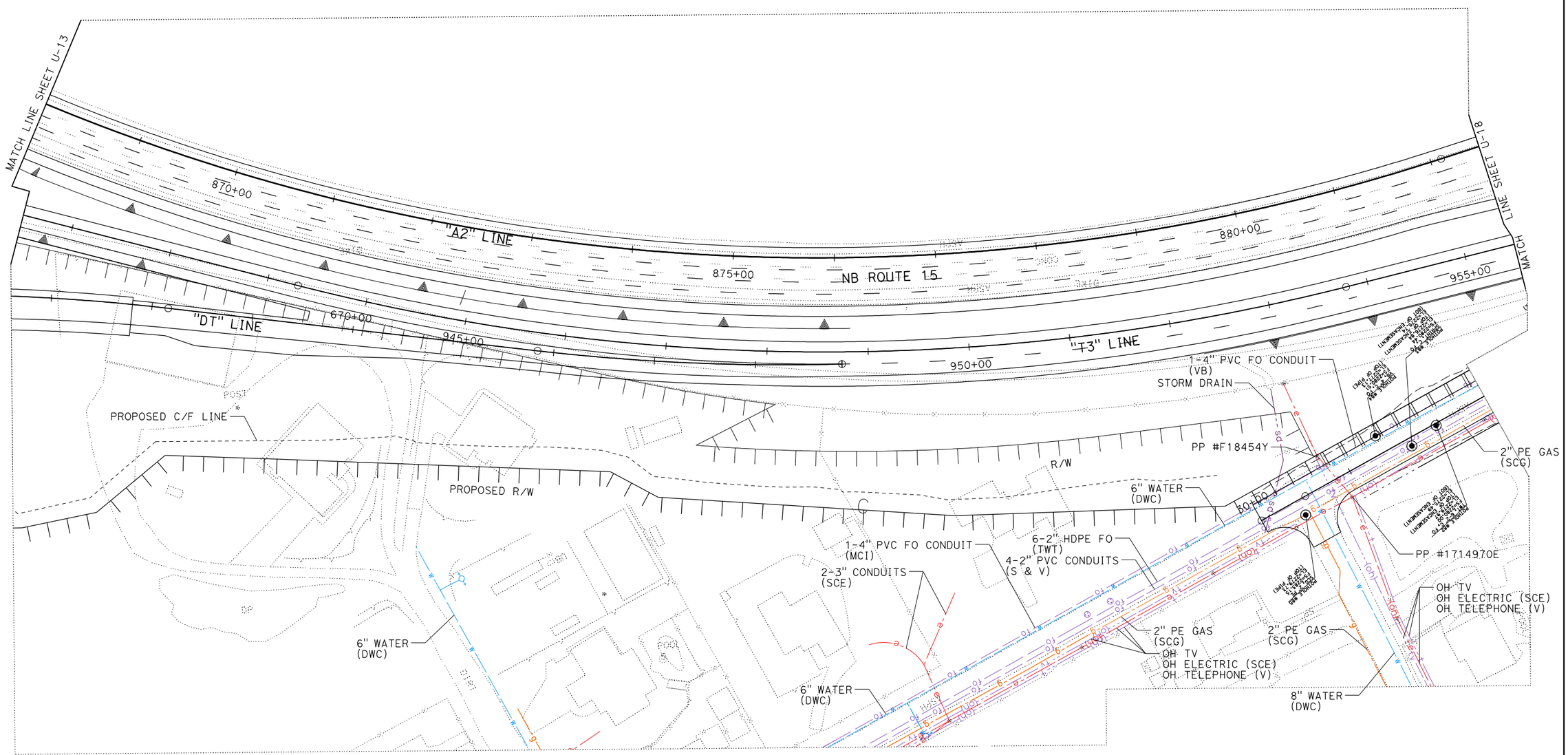
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-16

FUNCTIONAL SUPERVISOR	JESUS PAEZ
CALCULATED-DESIGNED BY	JONATHAN DEN HARTOG
CHECKED BY	
REVISED BY	
DATE REVISED	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:34

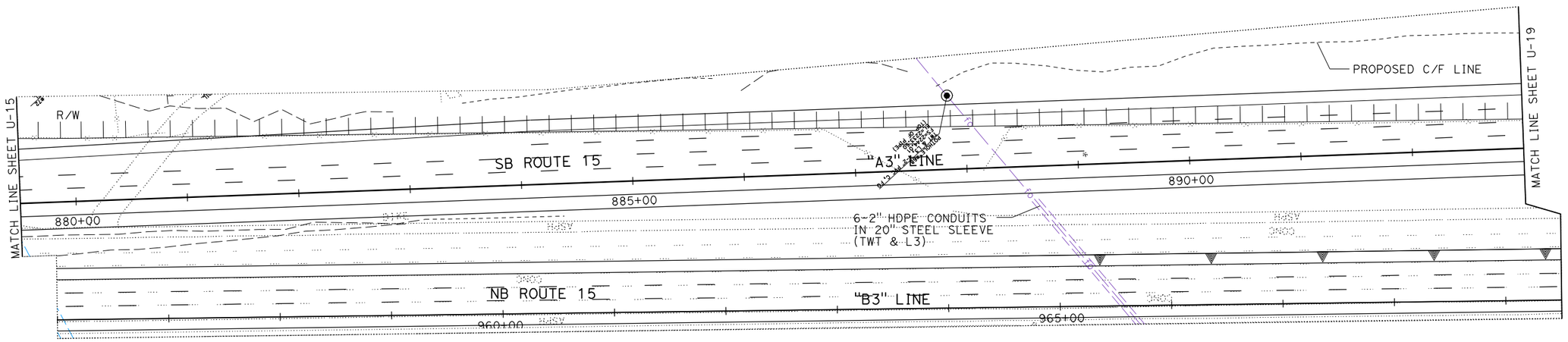
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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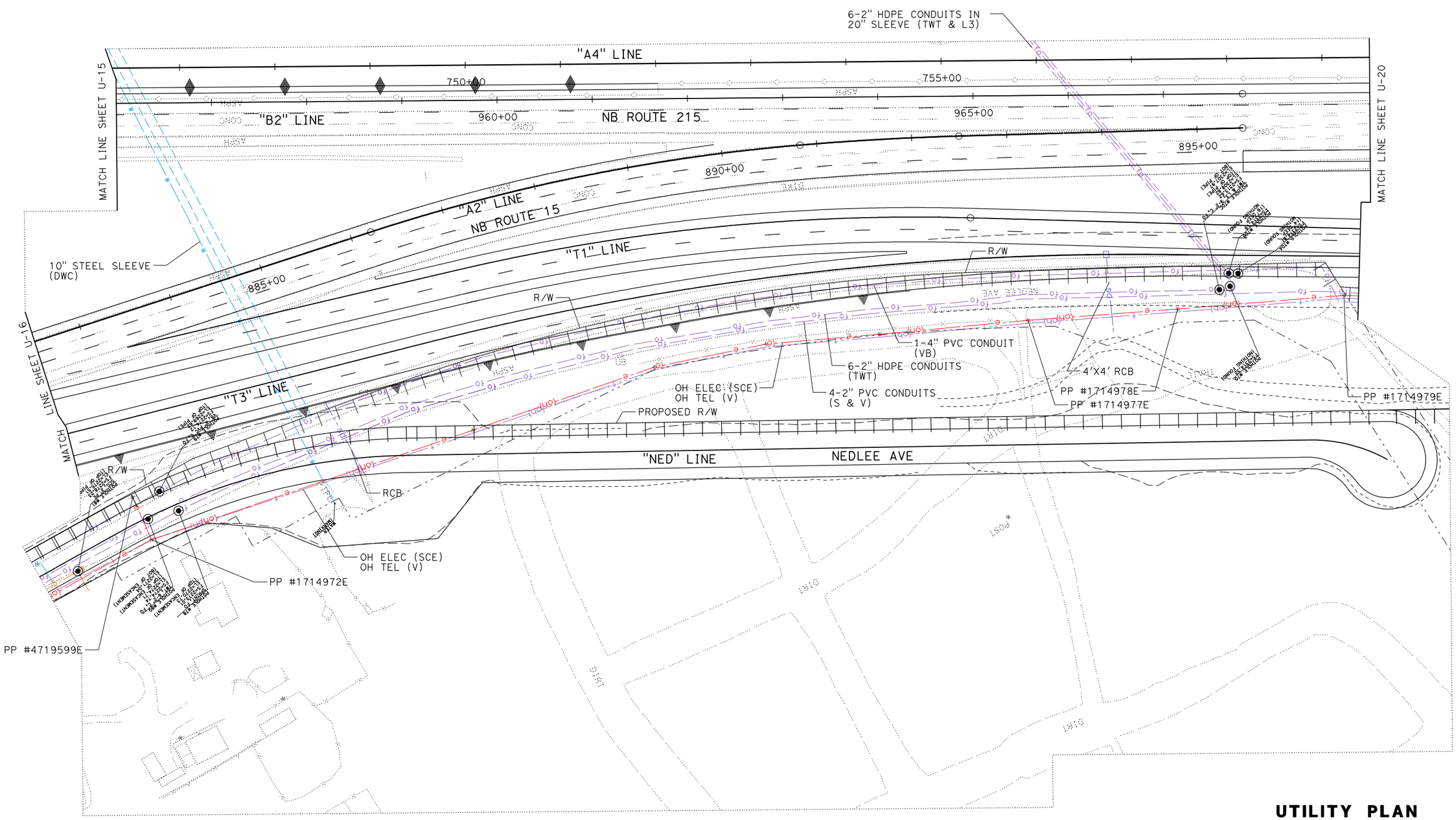

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-18

REVISED BY	DATE REVISED

JONATHAN DEN HARTOG

CALCULATED-DESIGNED BY

CHECKED BY

FUNCTIONAL SUPERVISOR

JESUS PAEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

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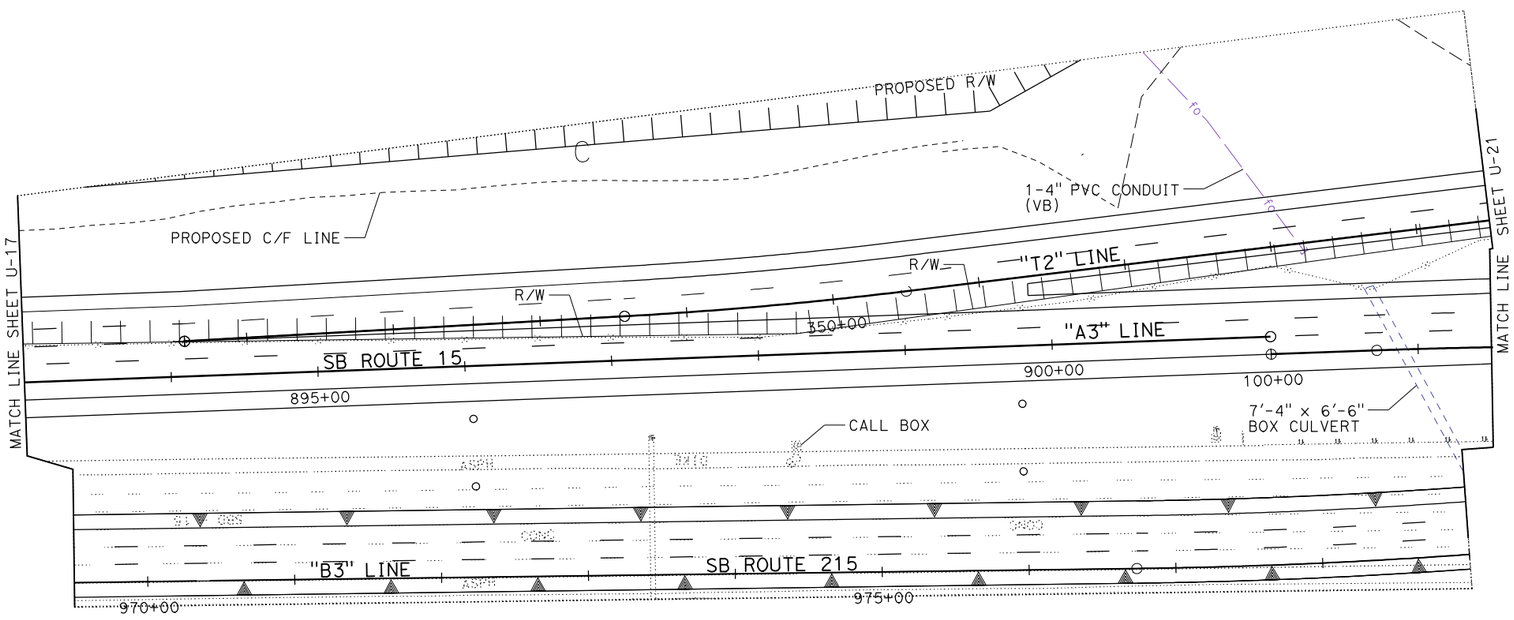

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

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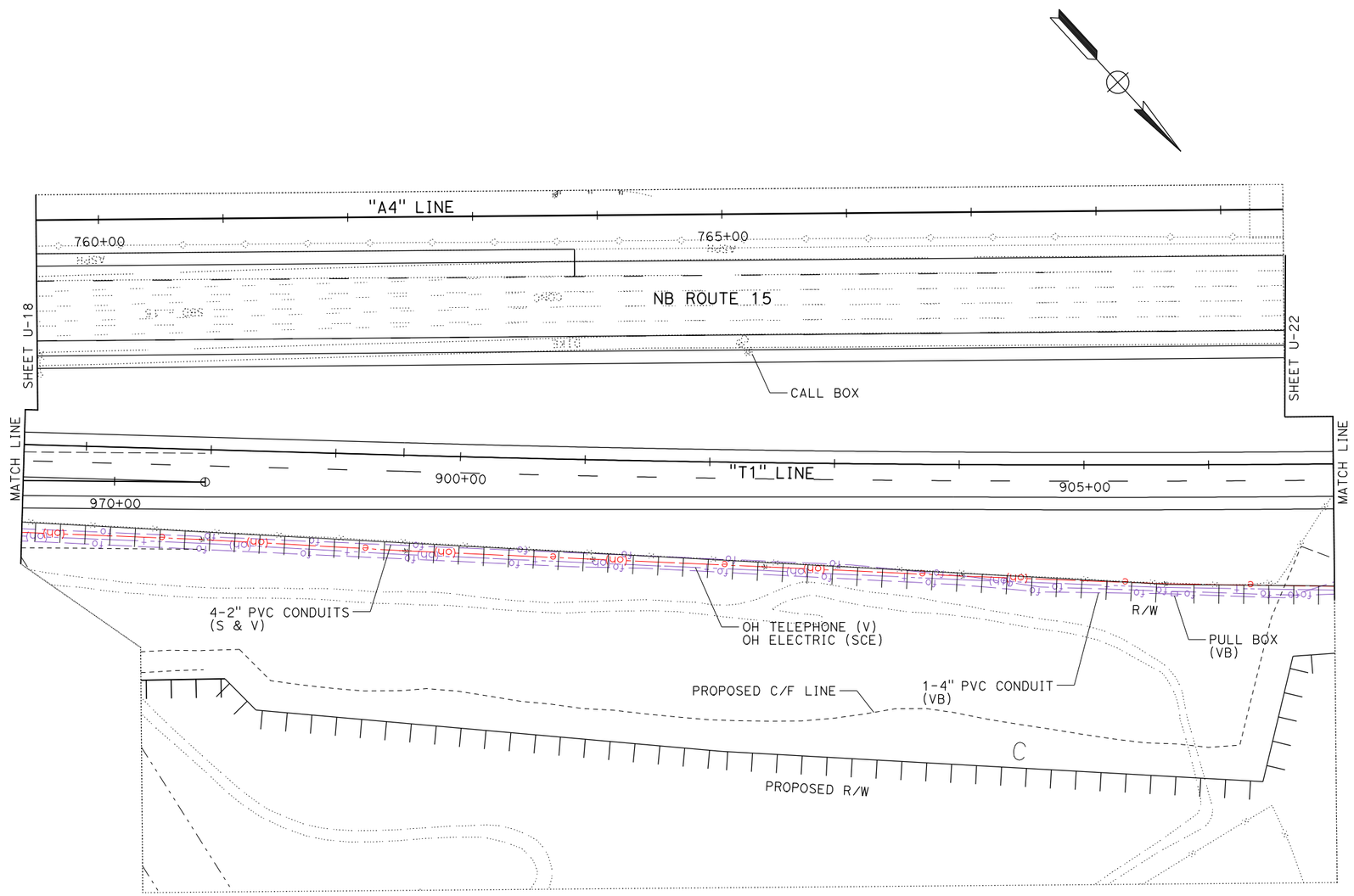

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

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PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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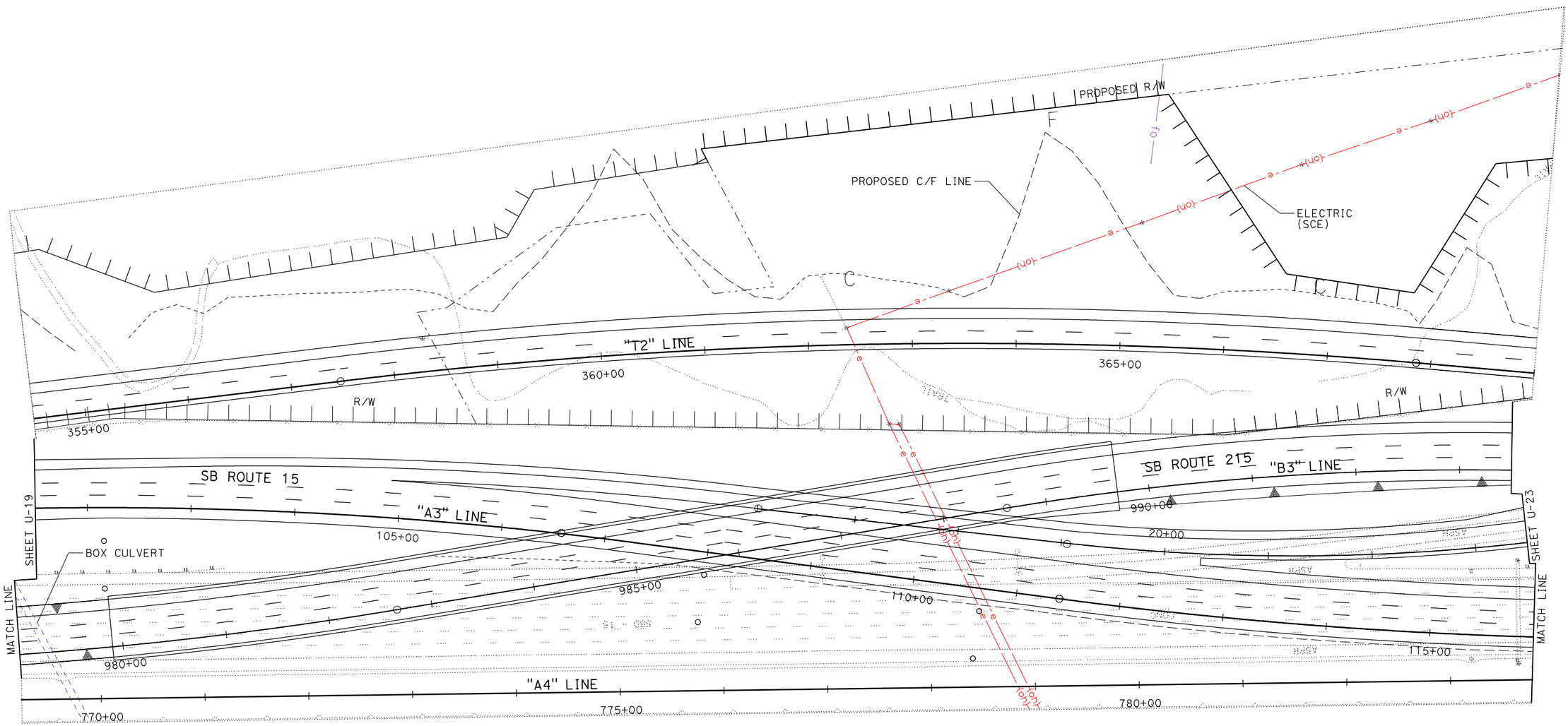

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

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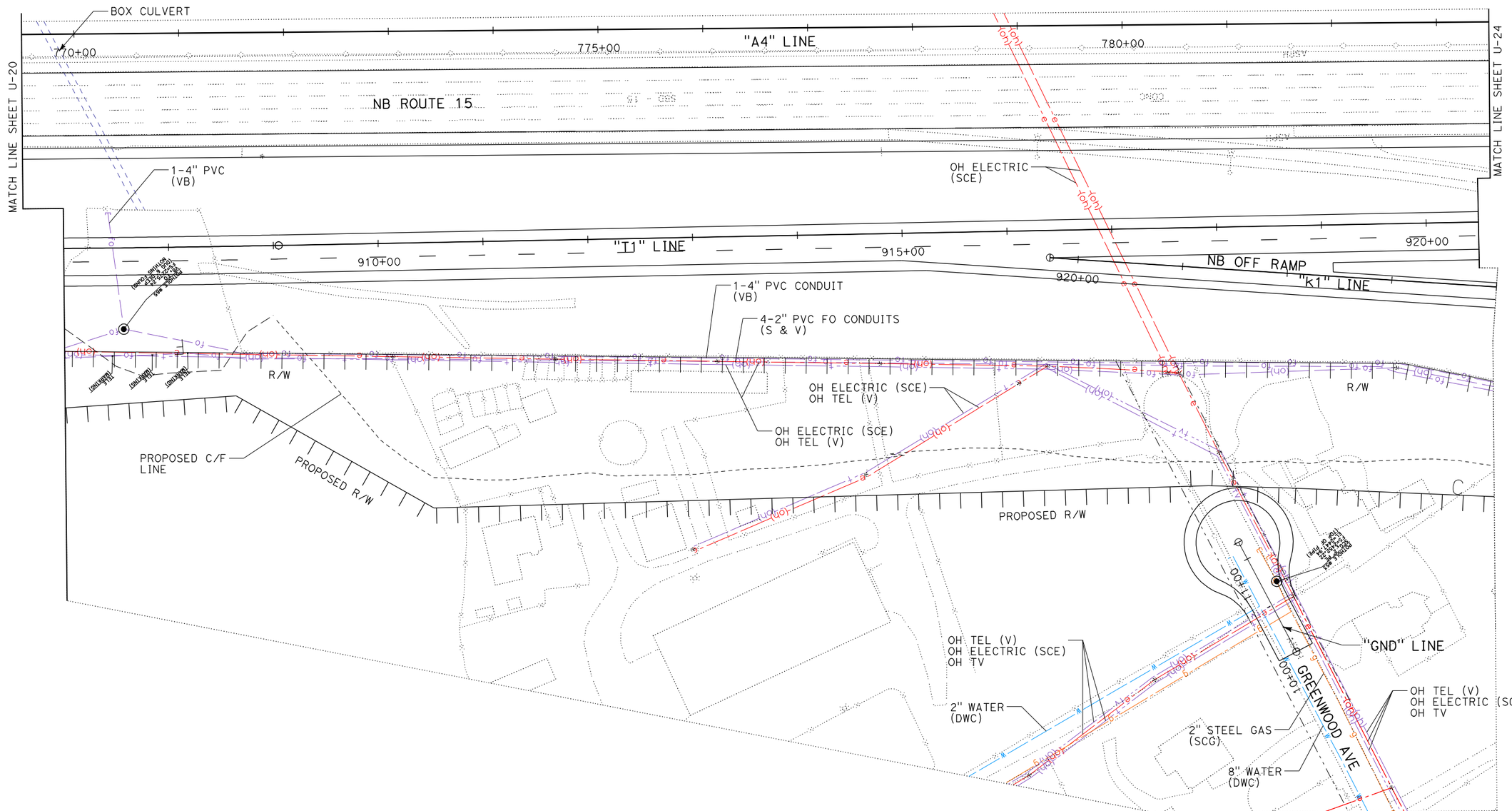

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-13-12

DATE PLOTTED => 13-APR-2012

TIME PLOTTED => 12:45

BORDER LAST REVISED 7/2/2010

USERNAME => s111075

DGN FILE => 080k710ka022.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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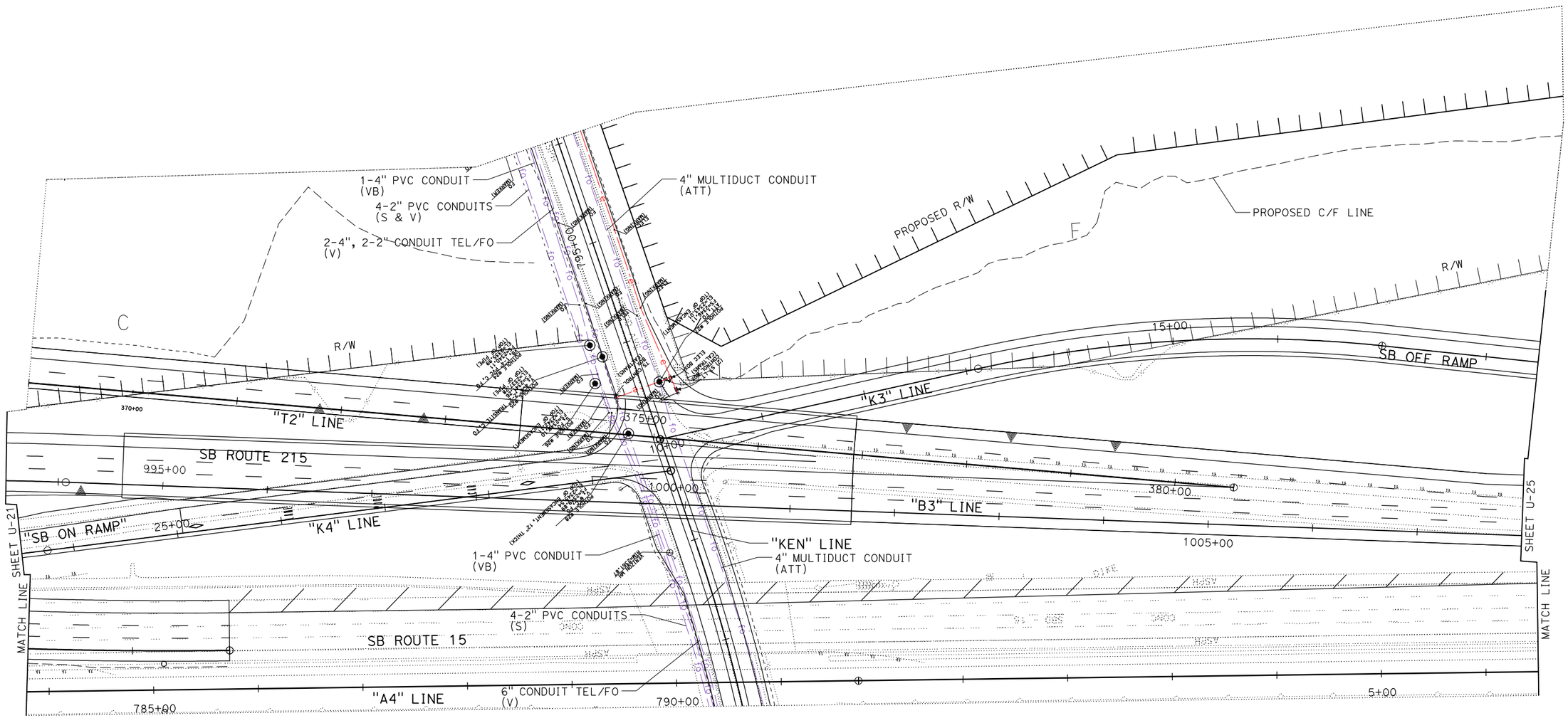

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-23

CALCULATED-DESIGNED BY	JONATHAN DEN HARTOG
CHECKED BY	
REVISED BY	
DATE REVISED	
FUNCTIONAL SUPERVISOR	JESUS PAEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-09-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:35

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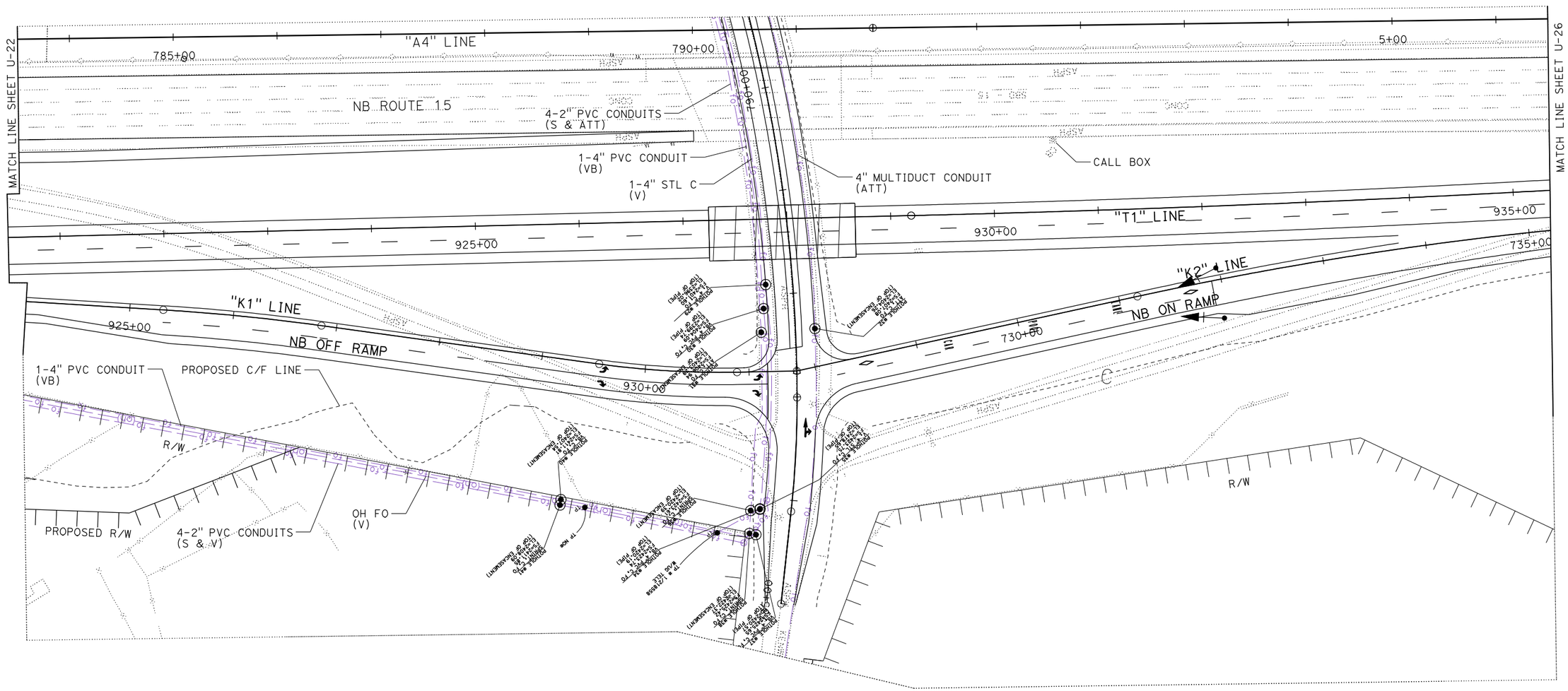

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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REVISED BY

DATE REVISED

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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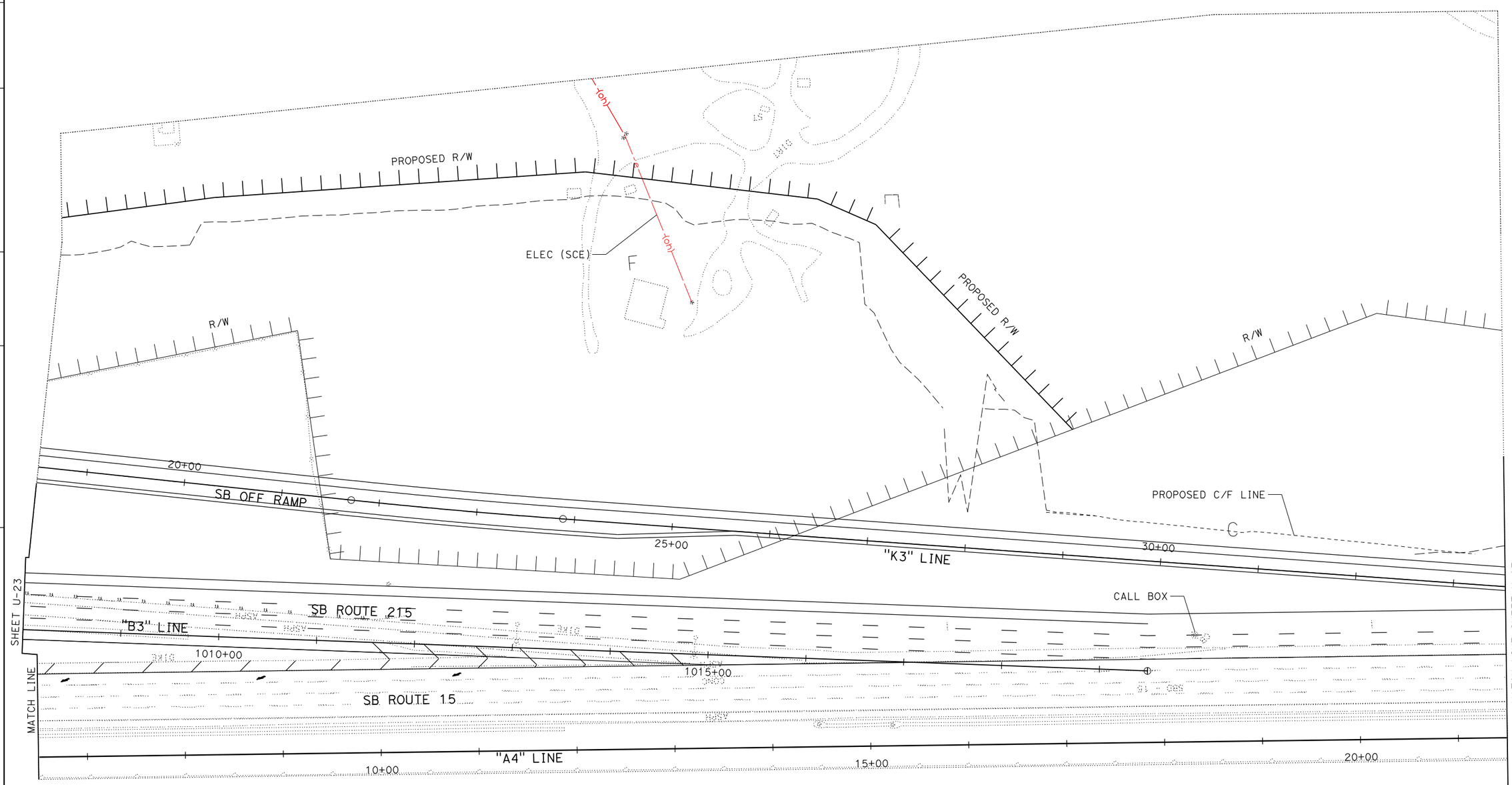

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-25

REVISED BY | DATE REVISED

JONATHAN DEN HARTOG

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

JESUS PAEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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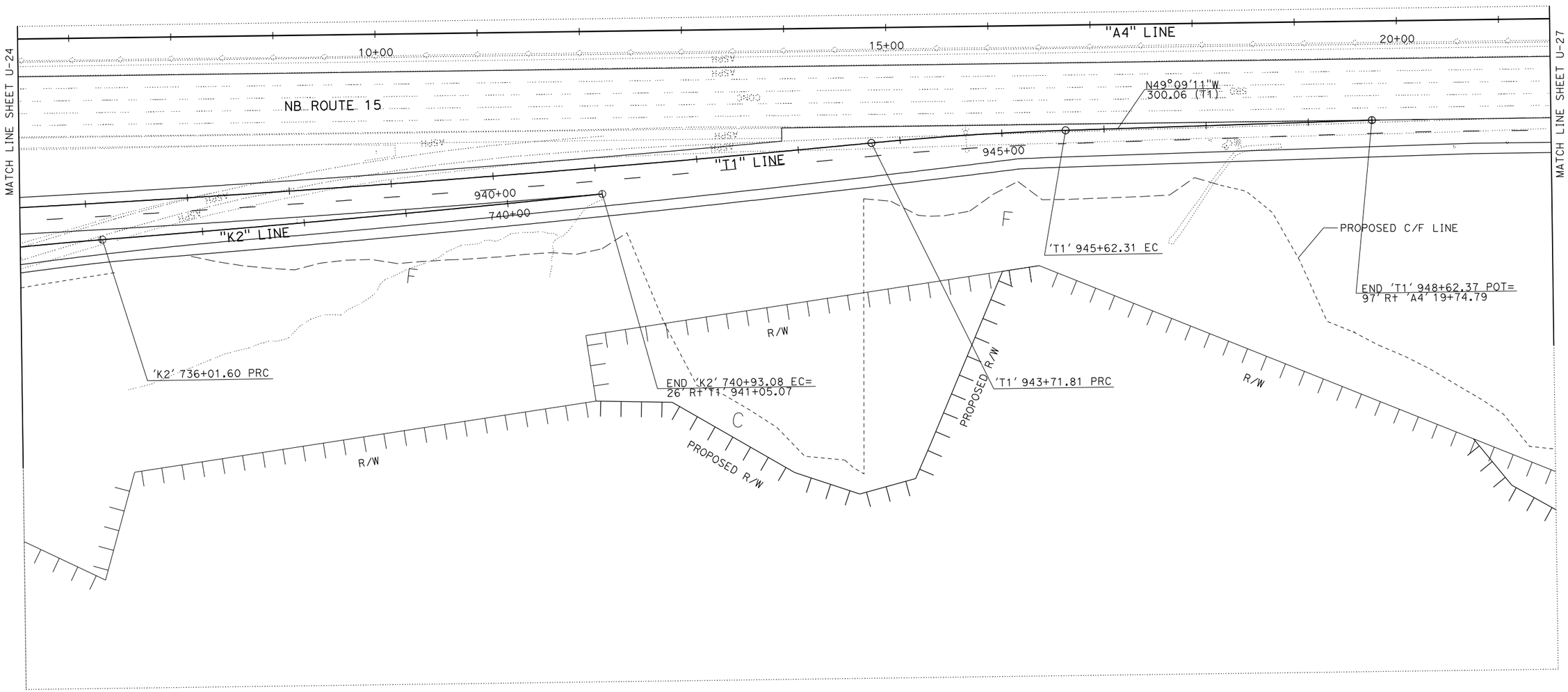

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012

TIME PLOTTED => 11:35

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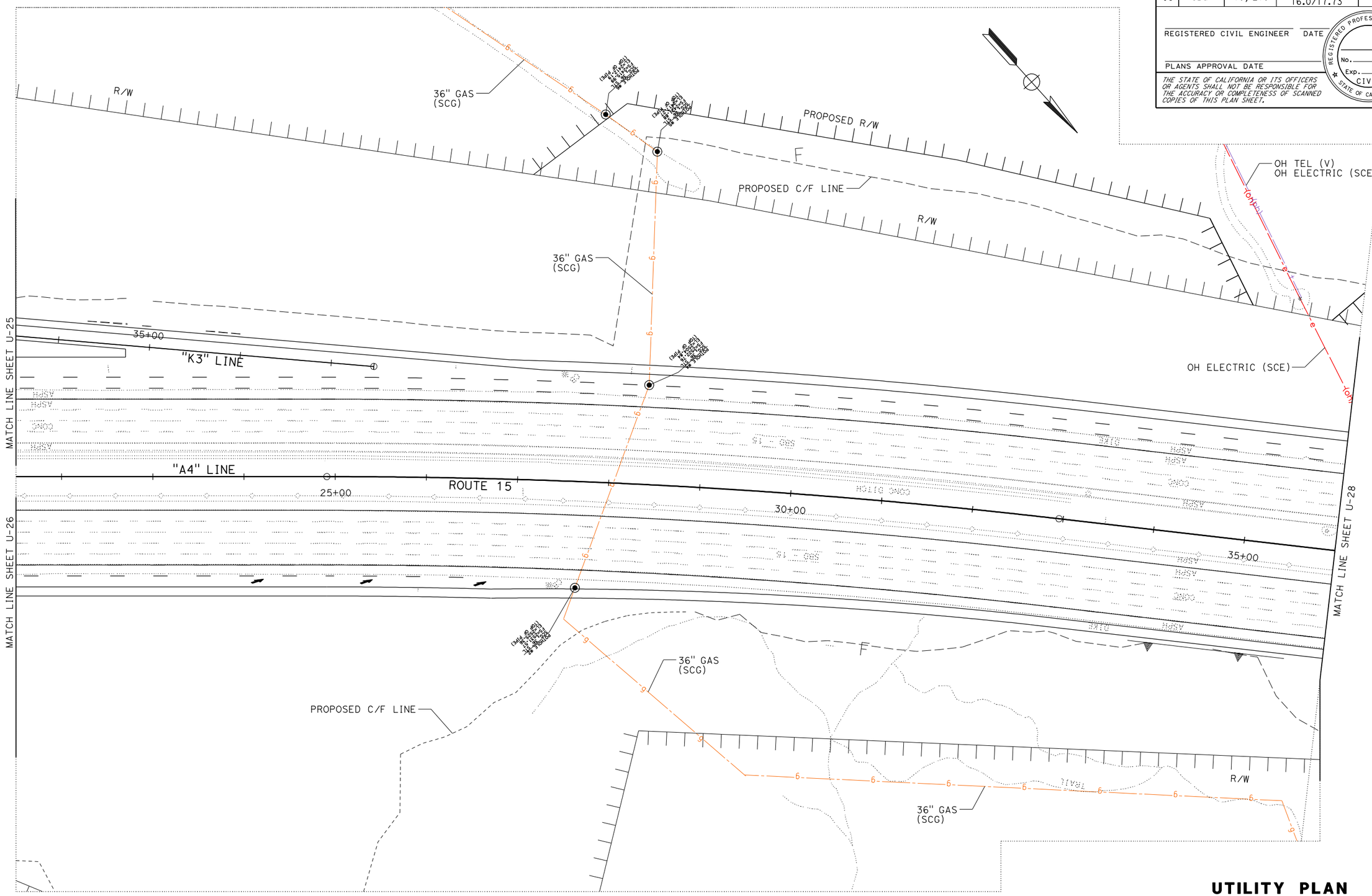

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:35

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka027.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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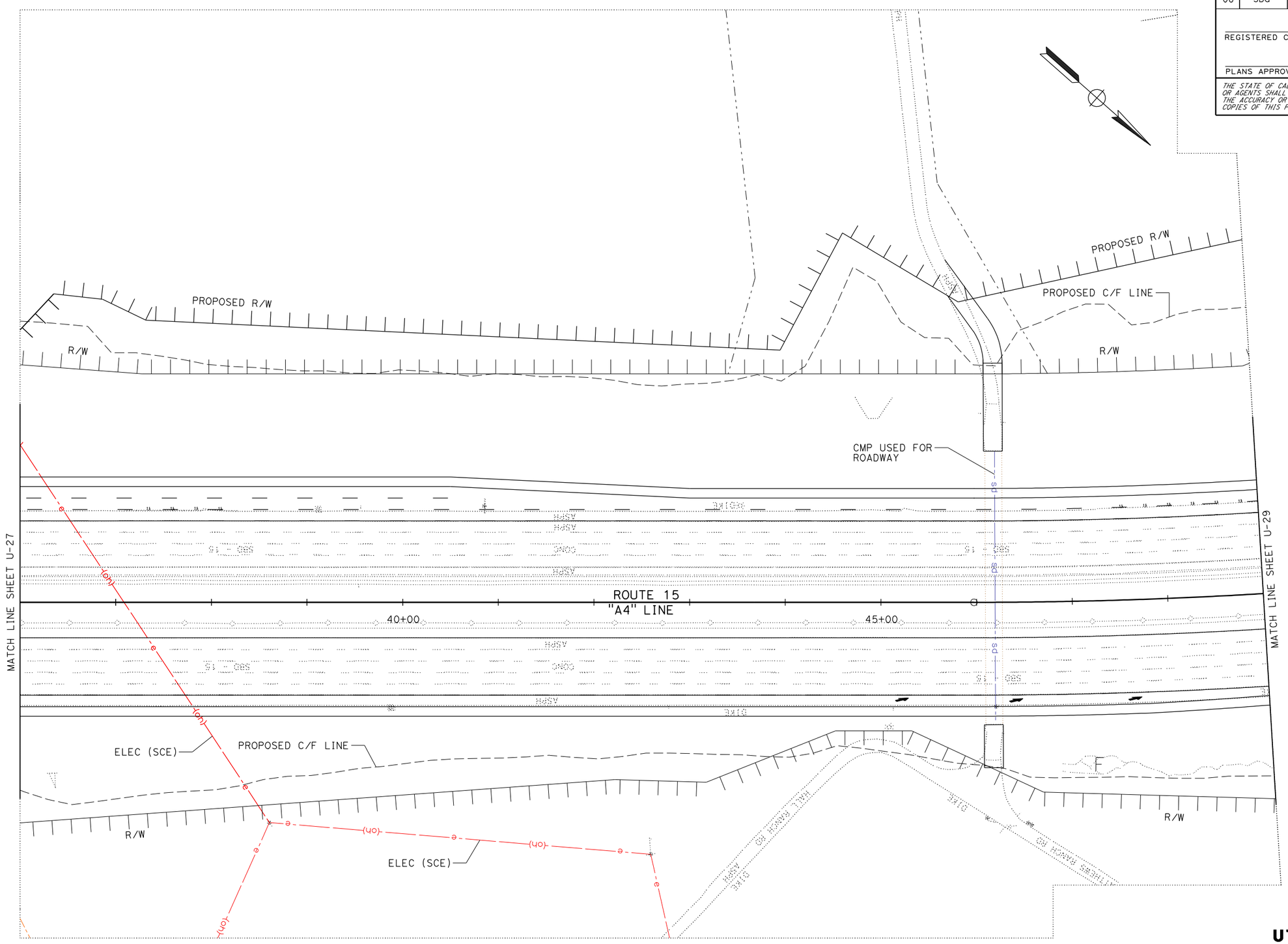

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

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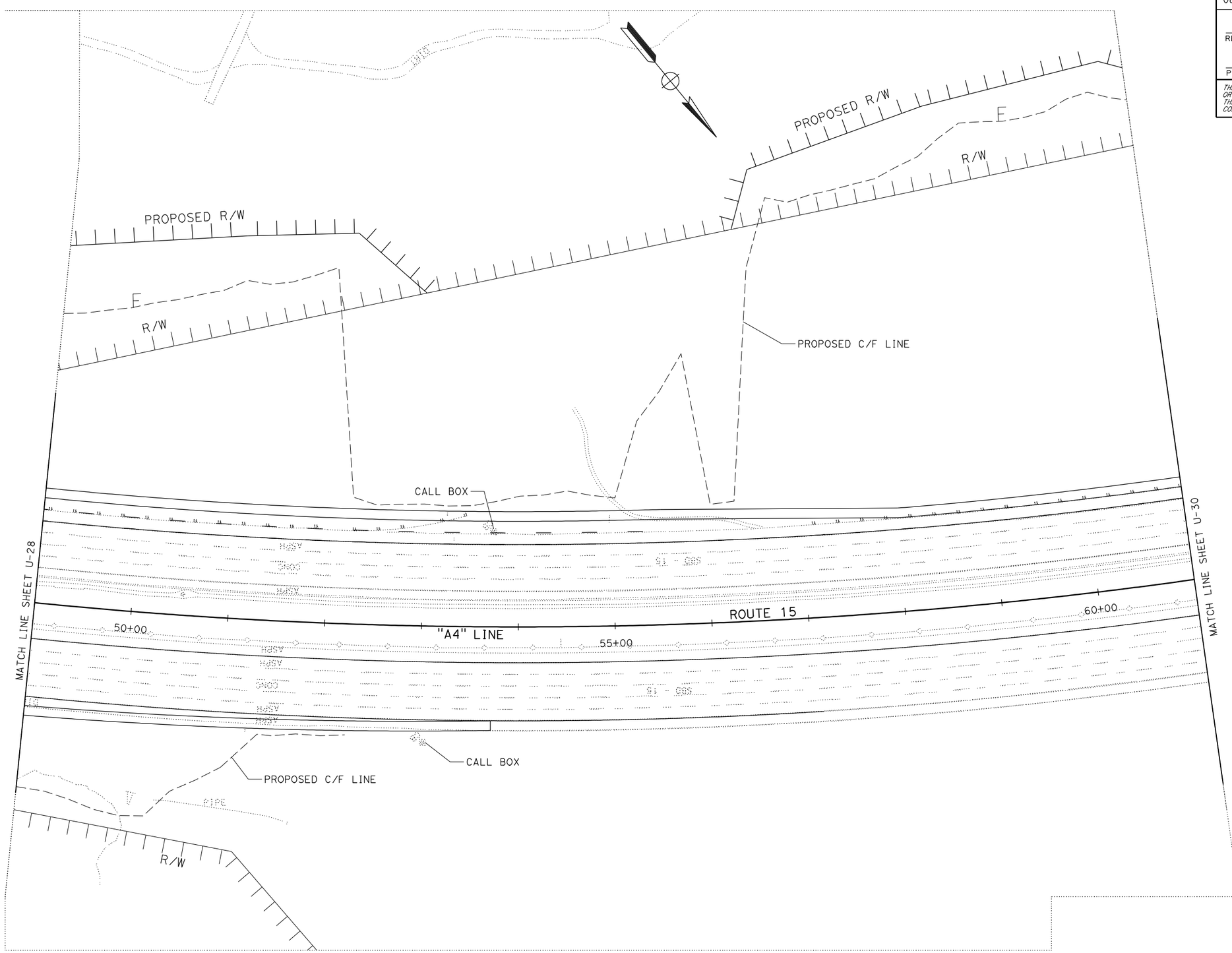

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-10-12

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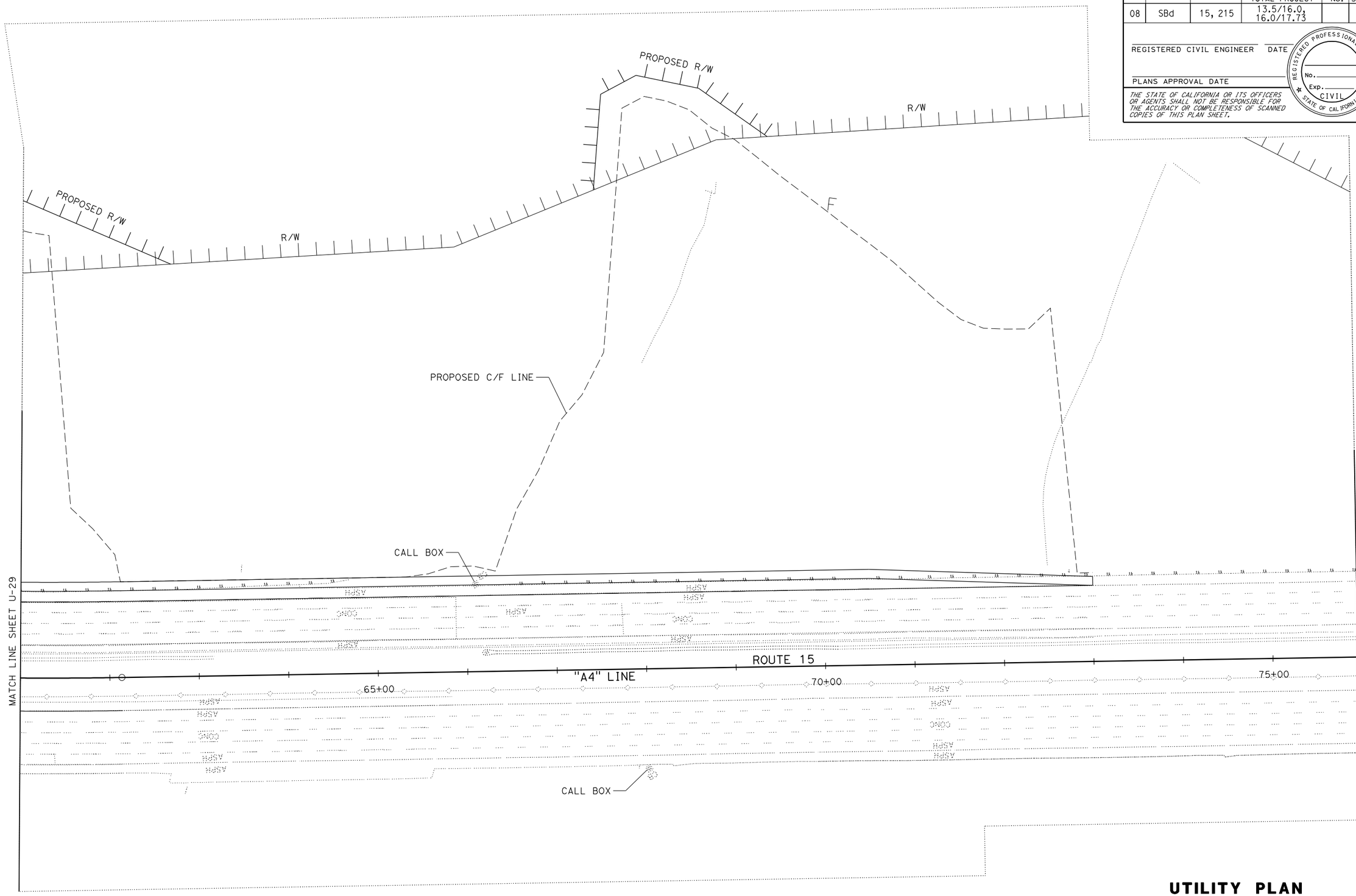

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-30

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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REVISED BY

DATE REVISED

LAST REVISION 04-10-12

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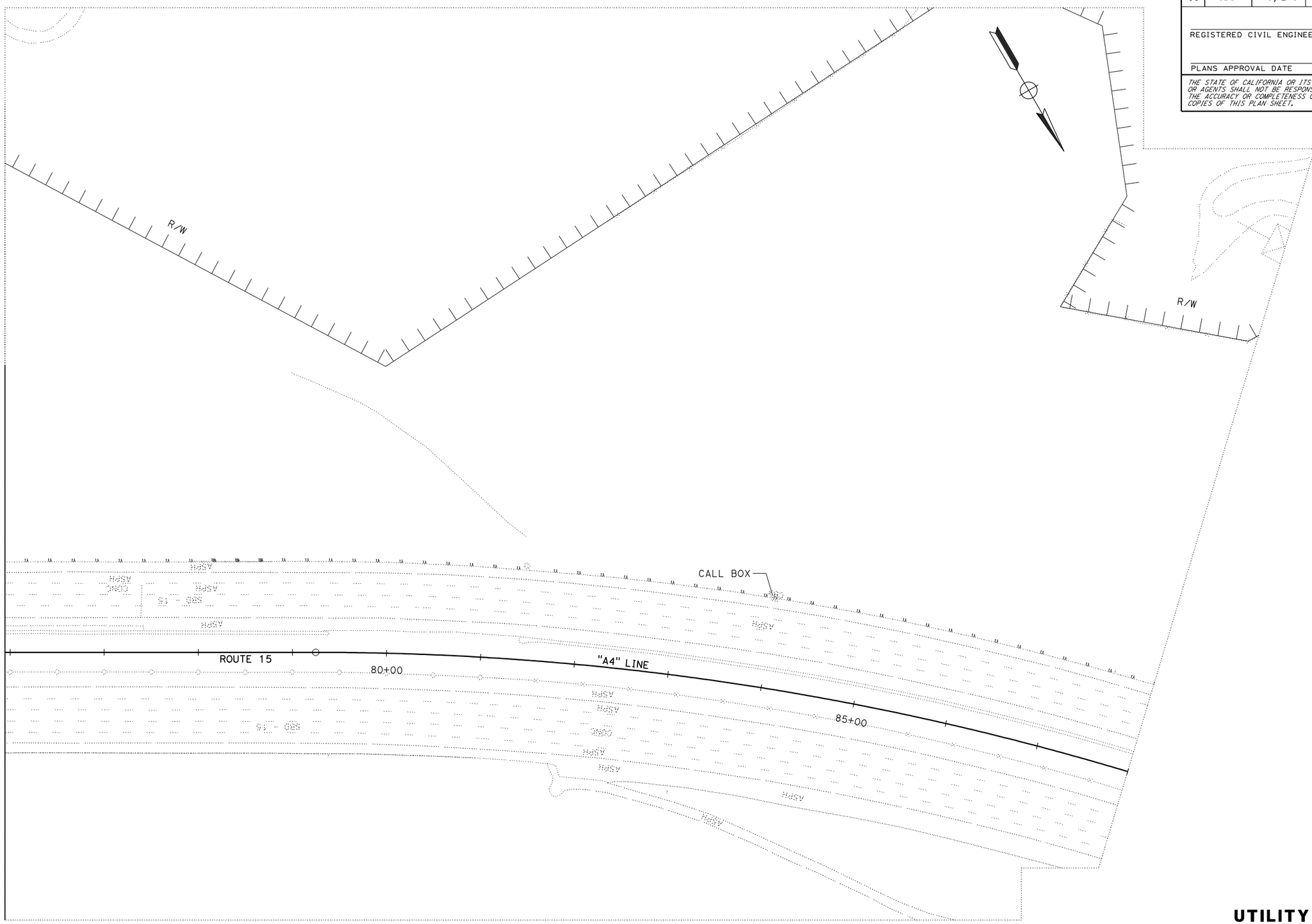

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:35

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka031.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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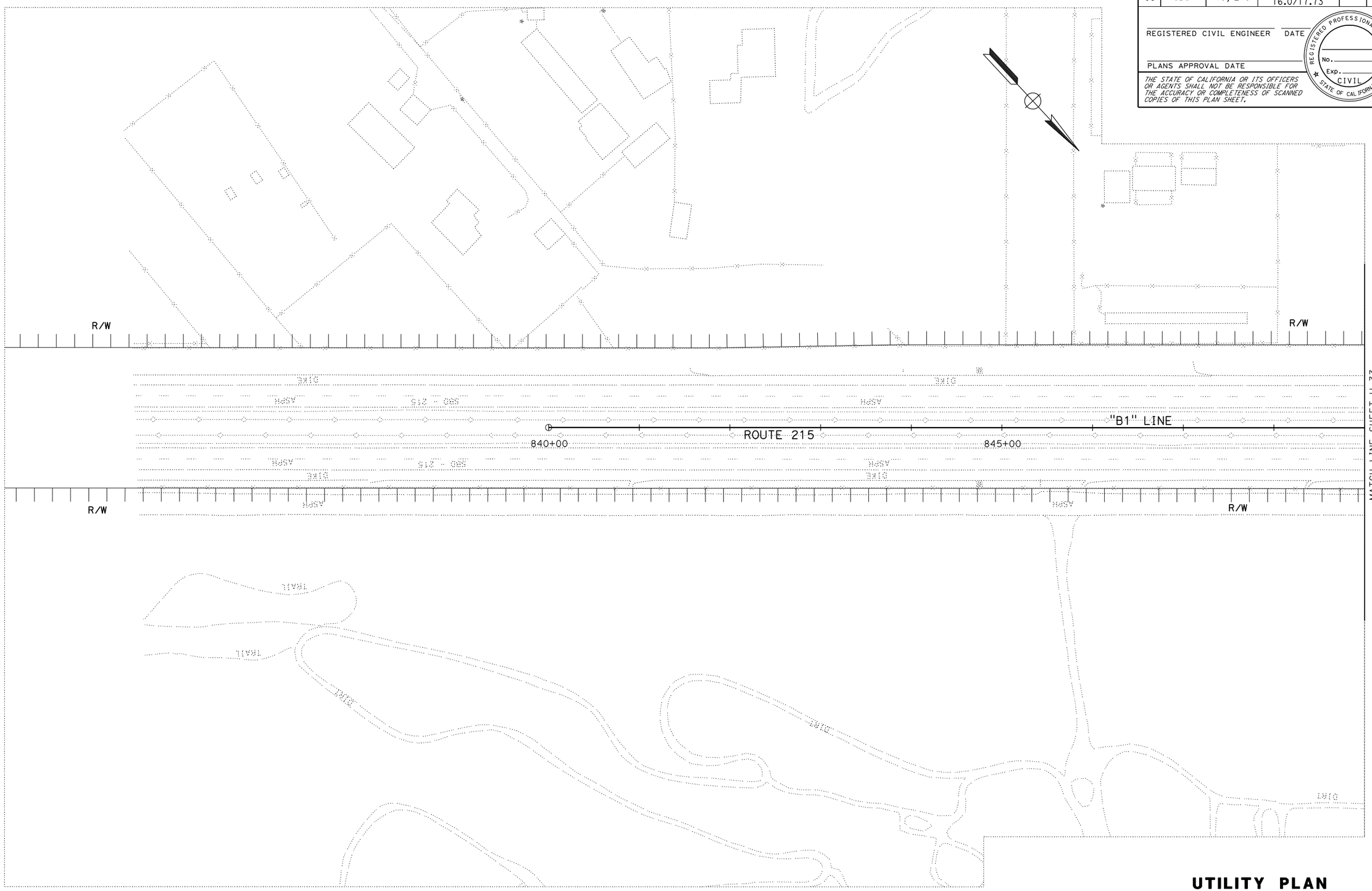

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-32

REVISED BY	DATE REVISED

JONATHAN DEN HARTOG

CALCULATED-DESIGNED BY

CHECKED BY

FUNCTIONAL SUPERVISOR

JESUS PAEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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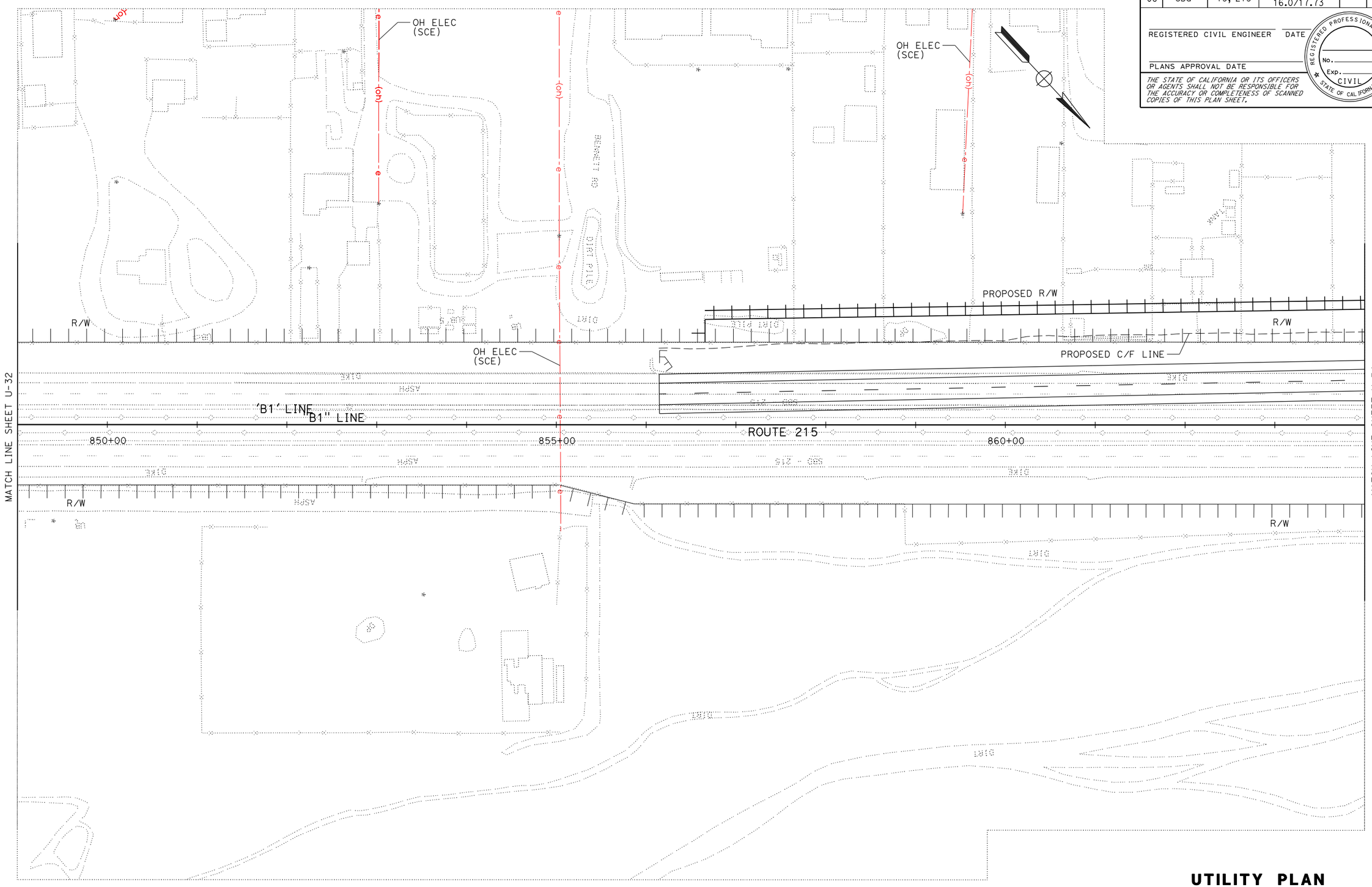

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:35

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka033.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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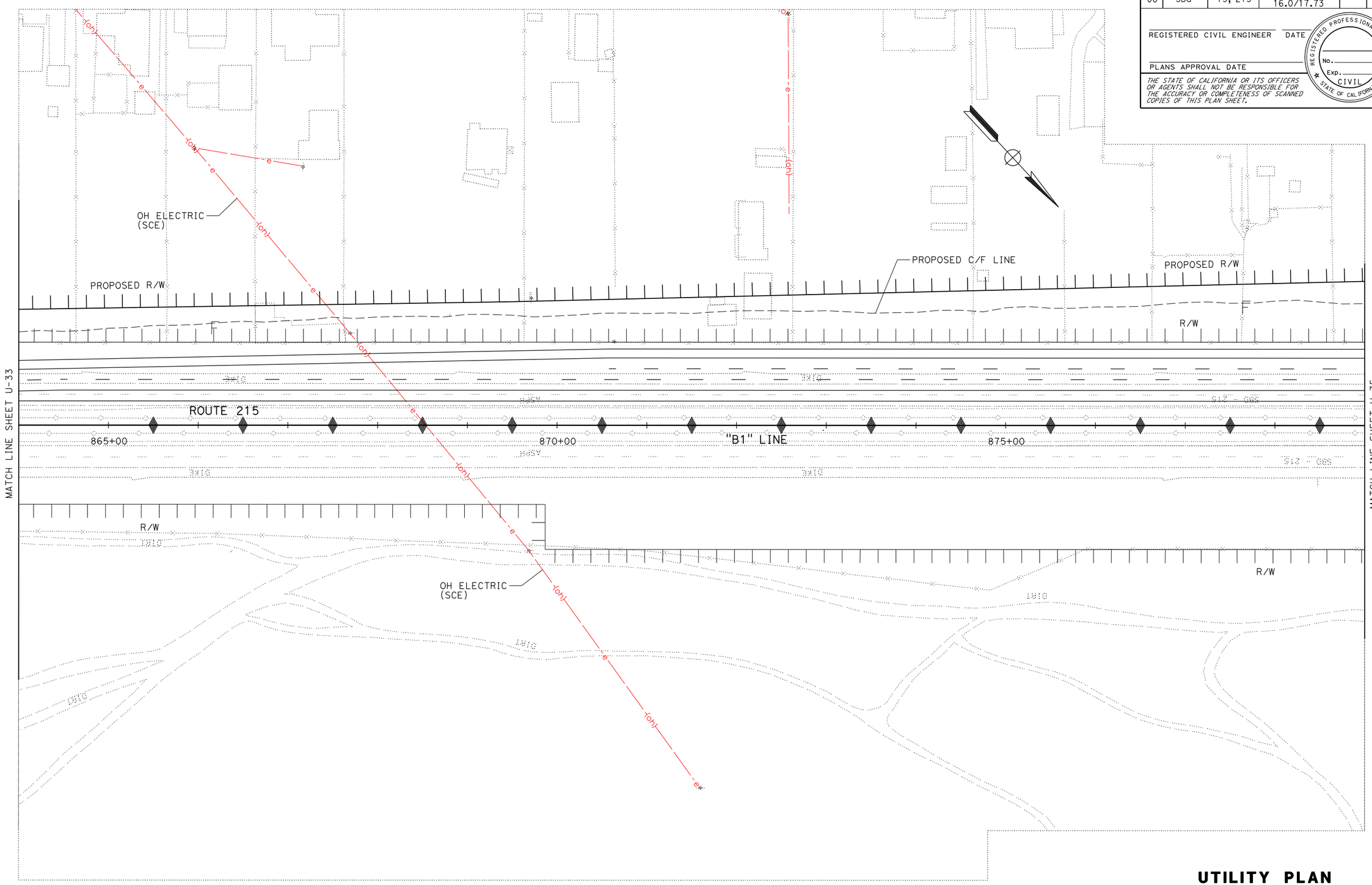

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-34

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
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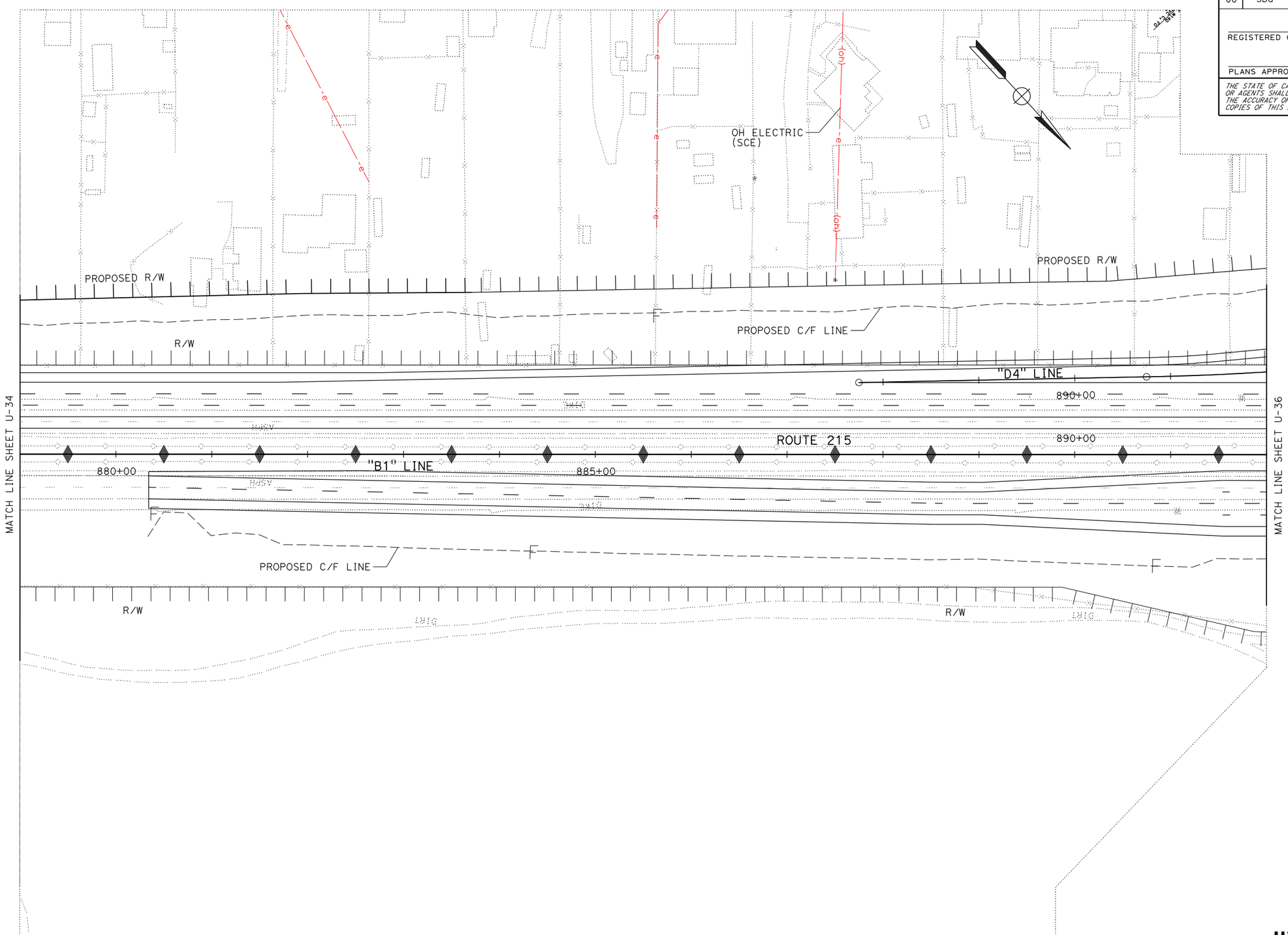

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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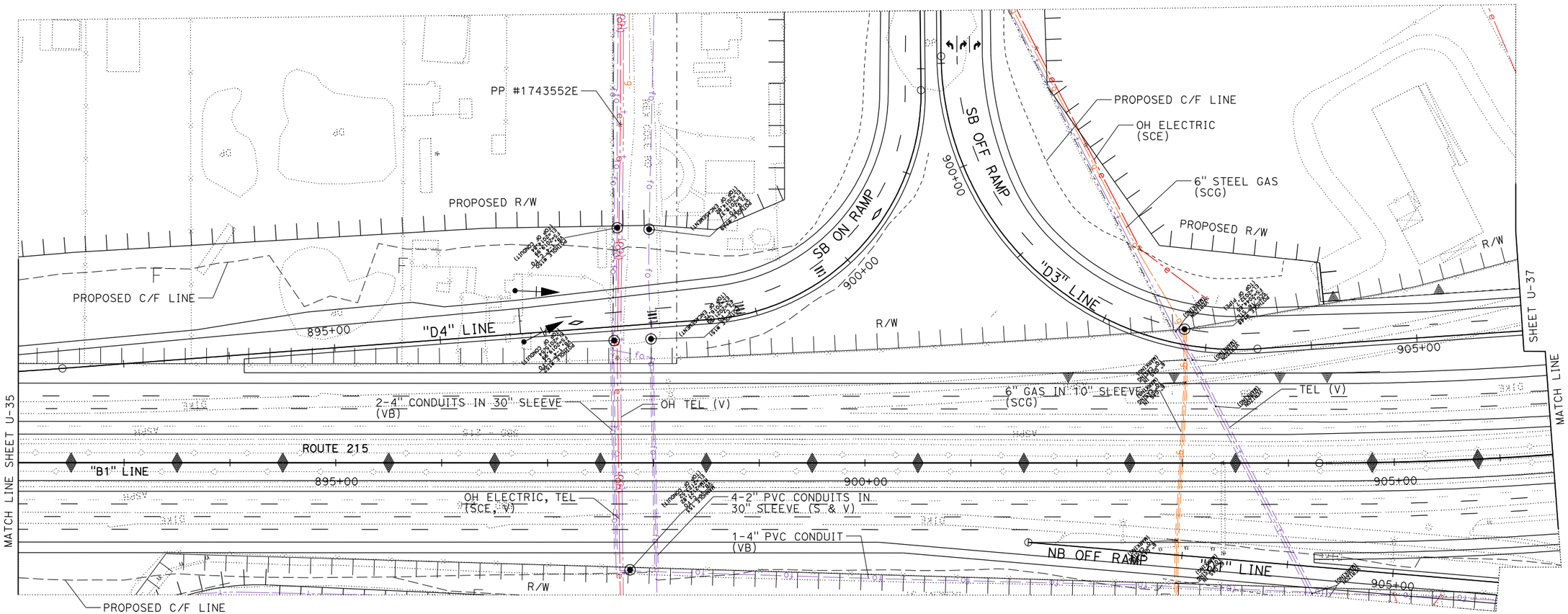

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-36

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:35

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka036.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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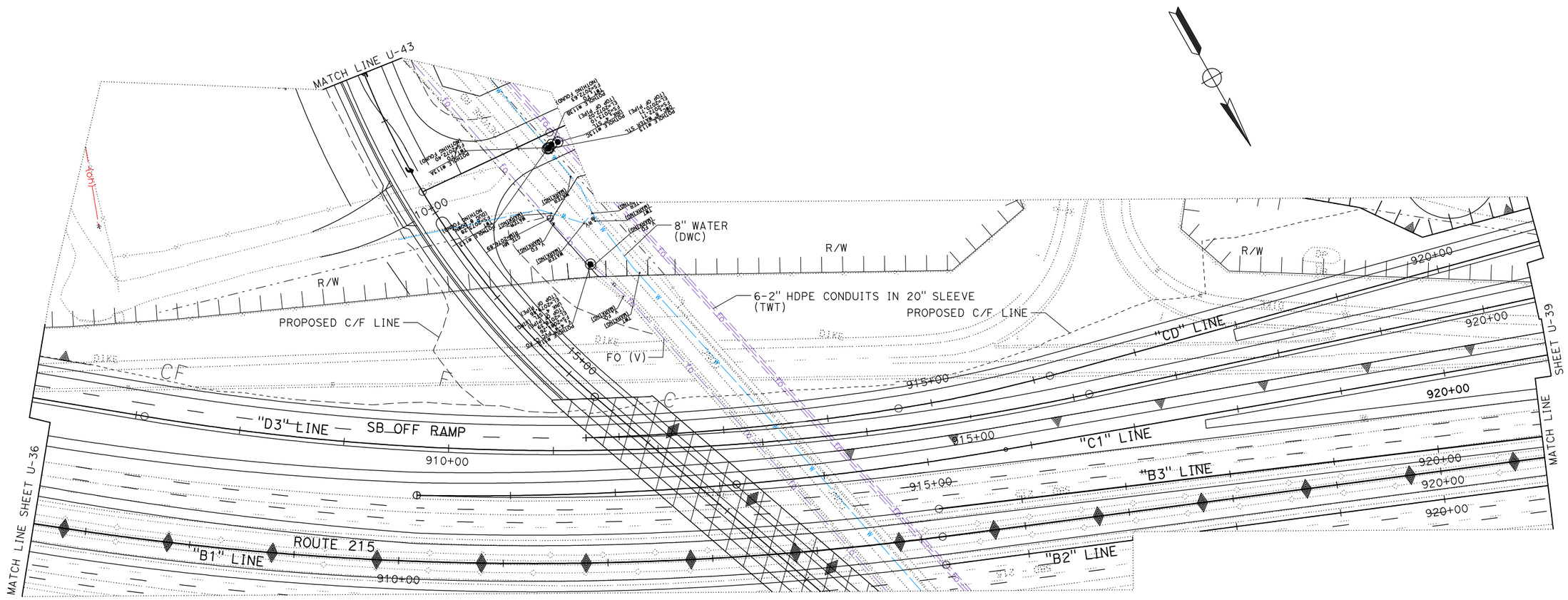

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-37

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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REVISED BY

DATE REVISED

LAST REVISION 04-13-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 12:43

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka037.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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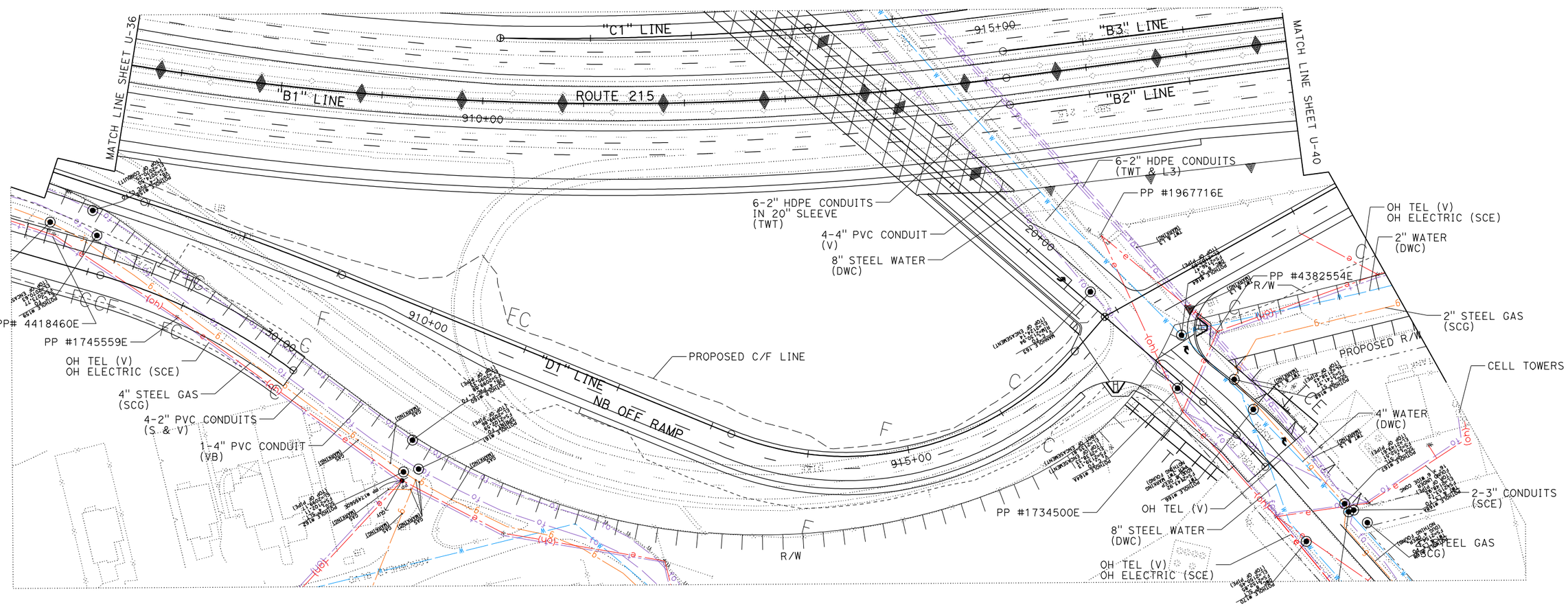

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-38

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

FUNCTIONAL SUPERVISOR: JESUS PAEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

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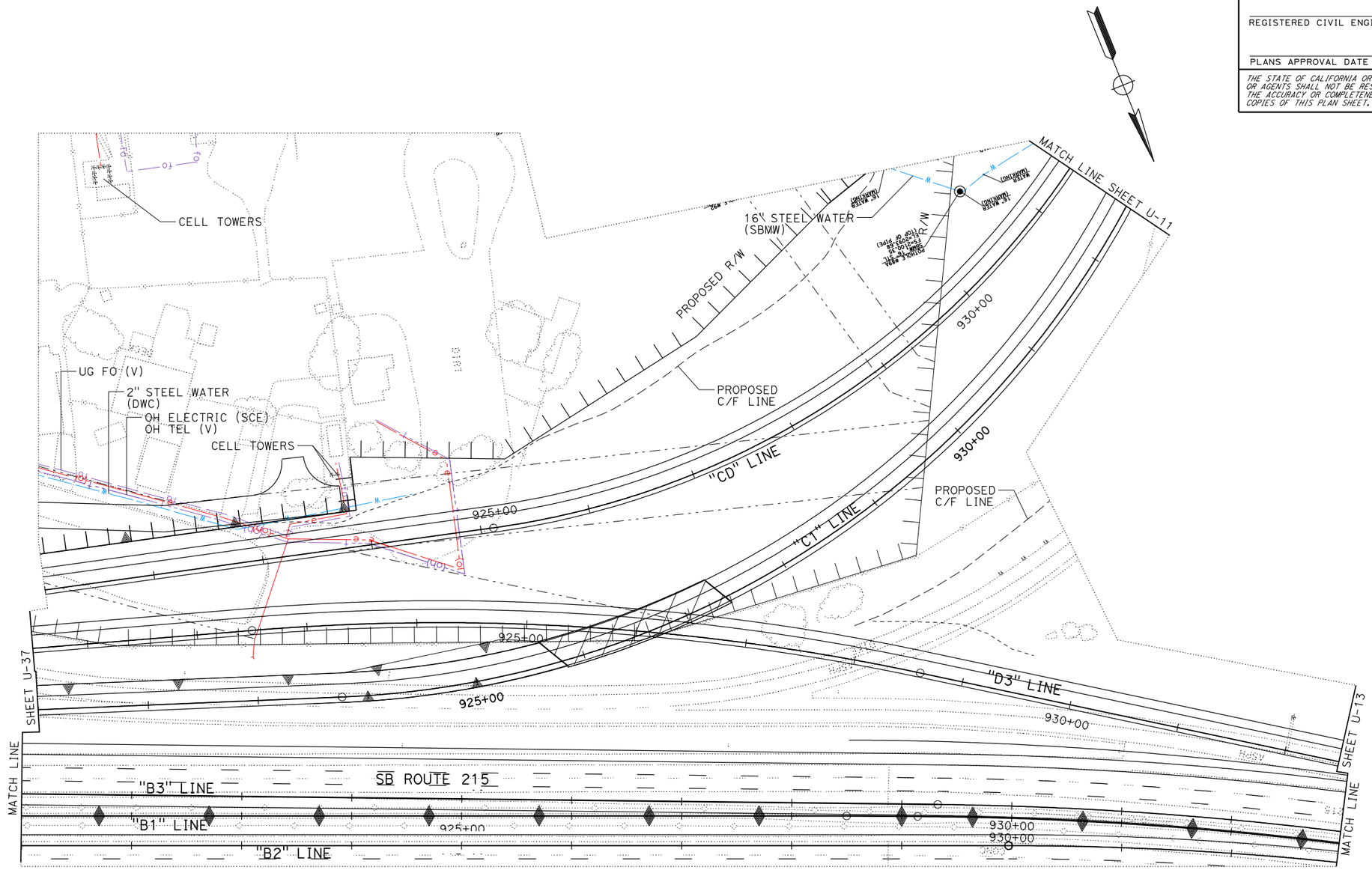

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-39

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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DATE REVISED

LAST REVISION 04-13-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 12:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

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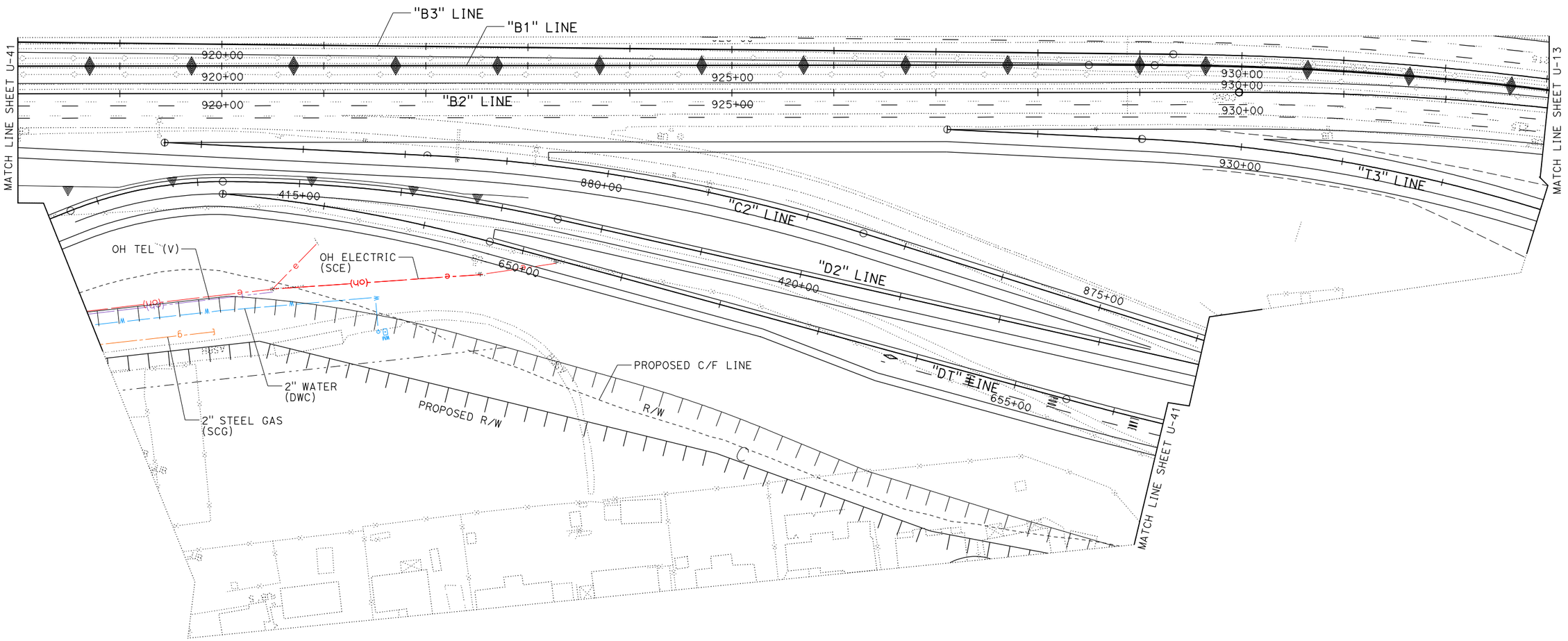

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-40

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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DATE REVISED

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
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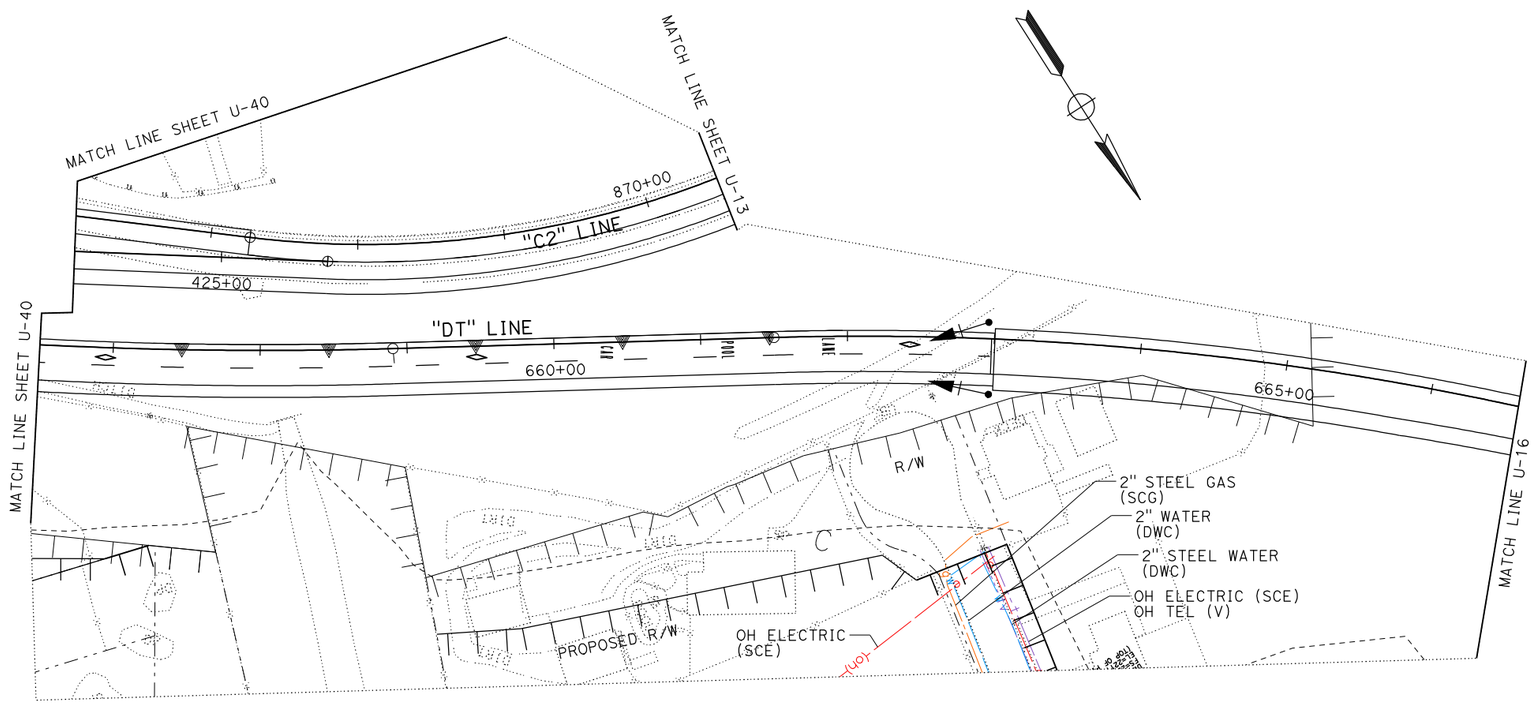

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-41

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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DATE REVISED

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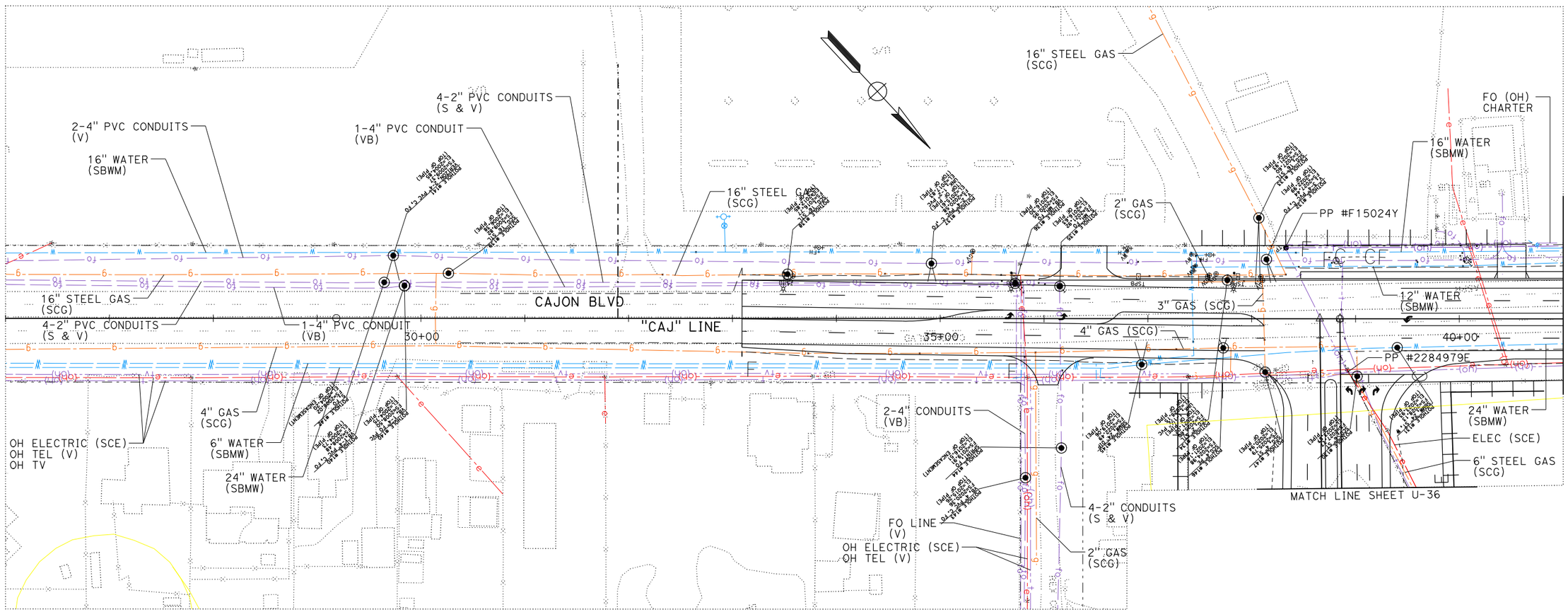

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-42

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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DATE REVISED

LAST REVISION 04-10-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:35

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka042.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

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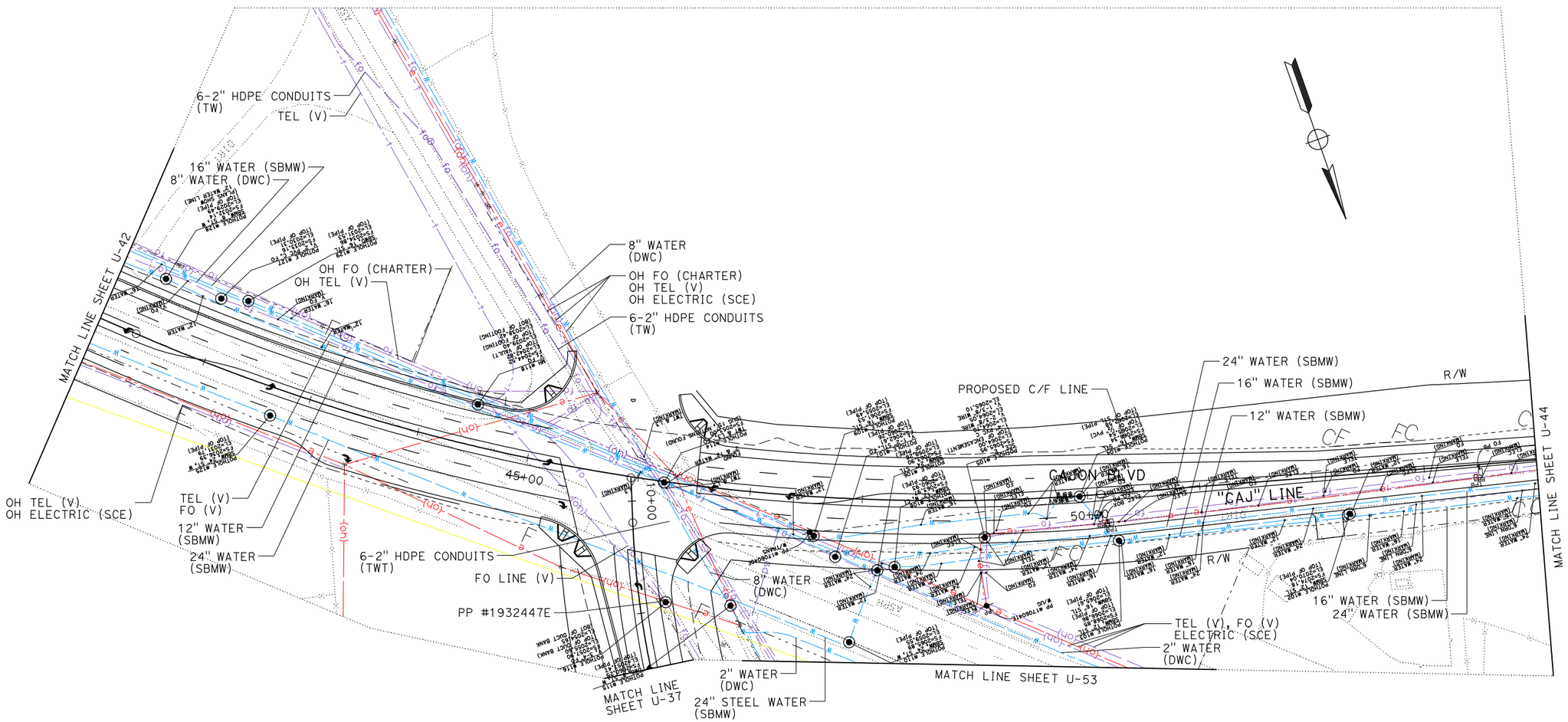

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-43

REVISED BY	DATE REVISED

JONATHAN DEN HARTOG

CALCULATED-DESIGNED BY

CHECKED BY

FUNCTIONAL SUPERVISOR

JESUS PAEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-11-12

DATE PLOTTED => 13-APR-2012
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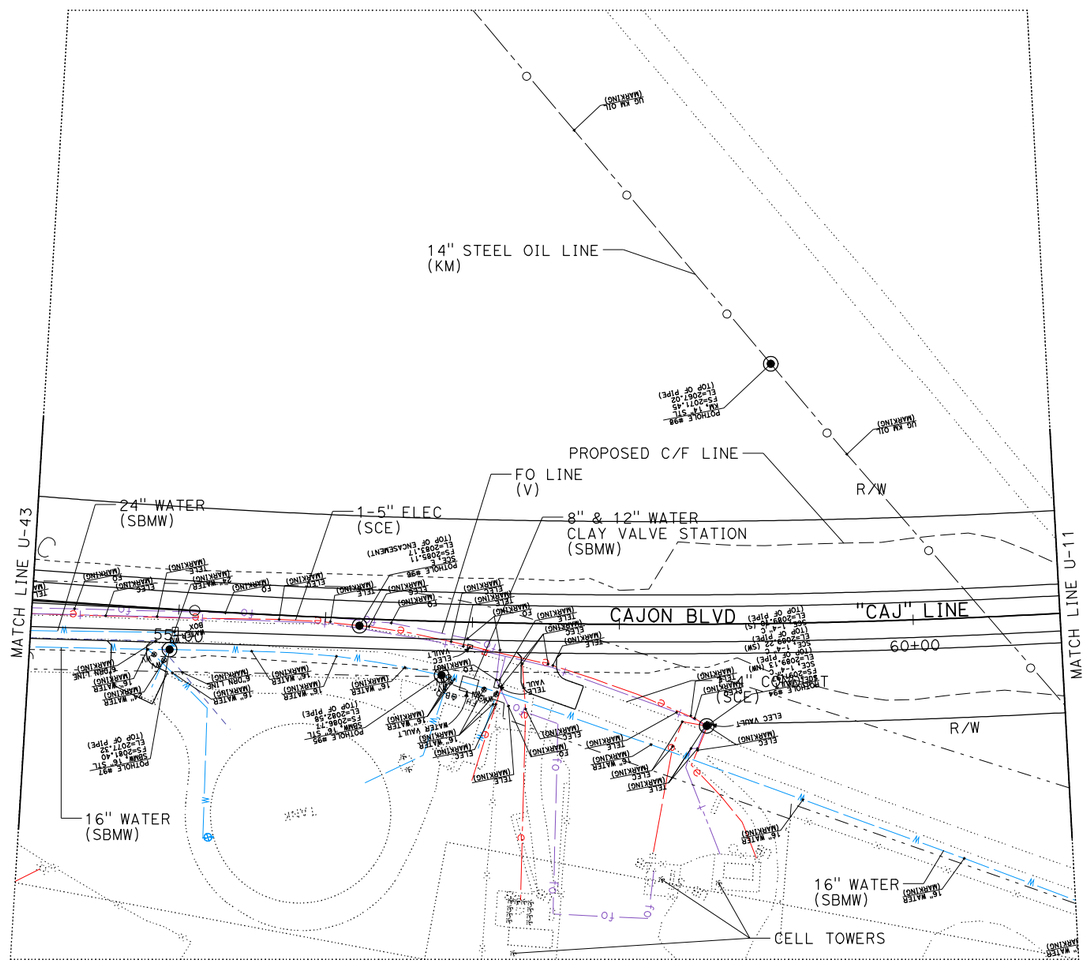

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-44

LAST REVISION	DATE PLOTTED => 13-APR-2012
04-11-12	TIME PLOTTED => 11:36

FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	JONATHAN DEN HARTOG	REVISED BY
JESUS PAEZ	CHECKED BY		DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

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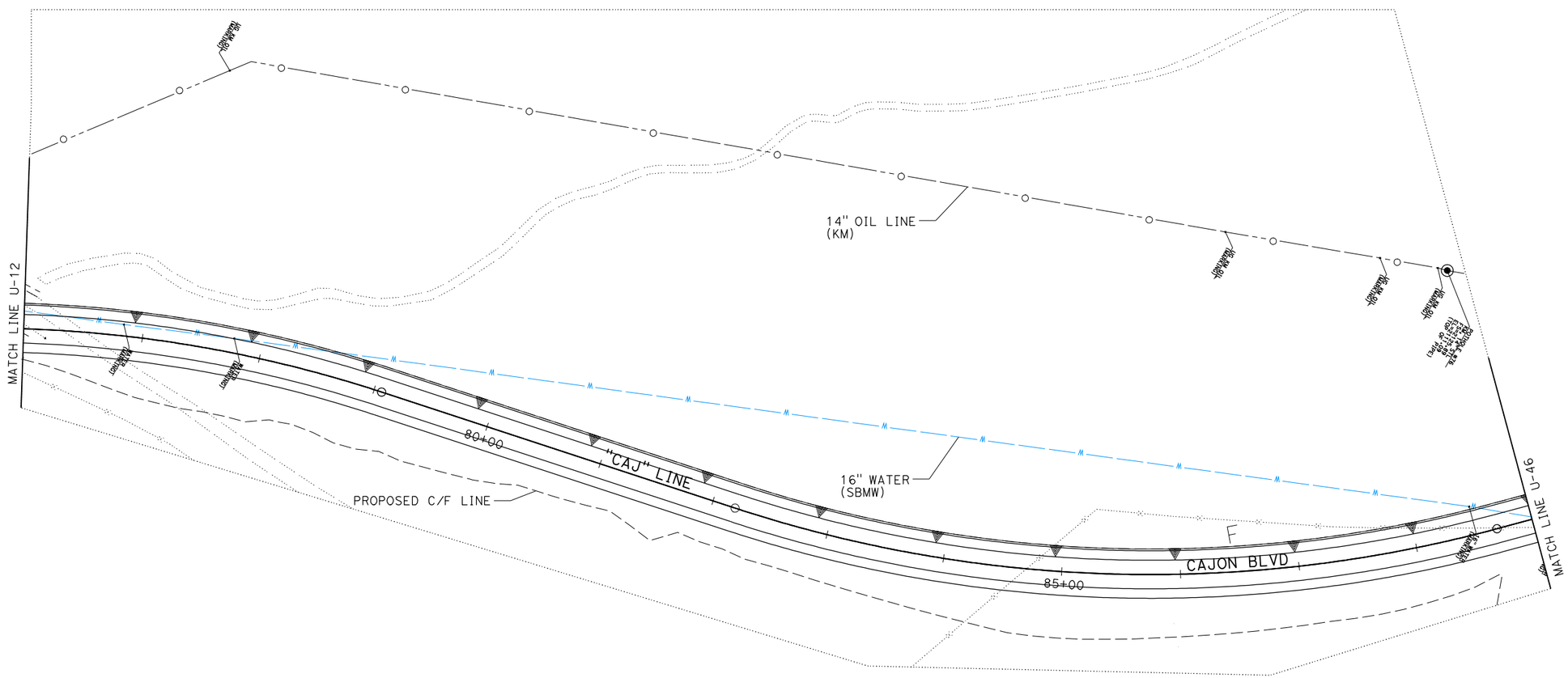

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UTILITY PLAN

SCALE: 1"=50'

U-45

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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DATE REVISED

LAST REVISION 04-11-12

DATE PLOTTED => 13-APR-2012
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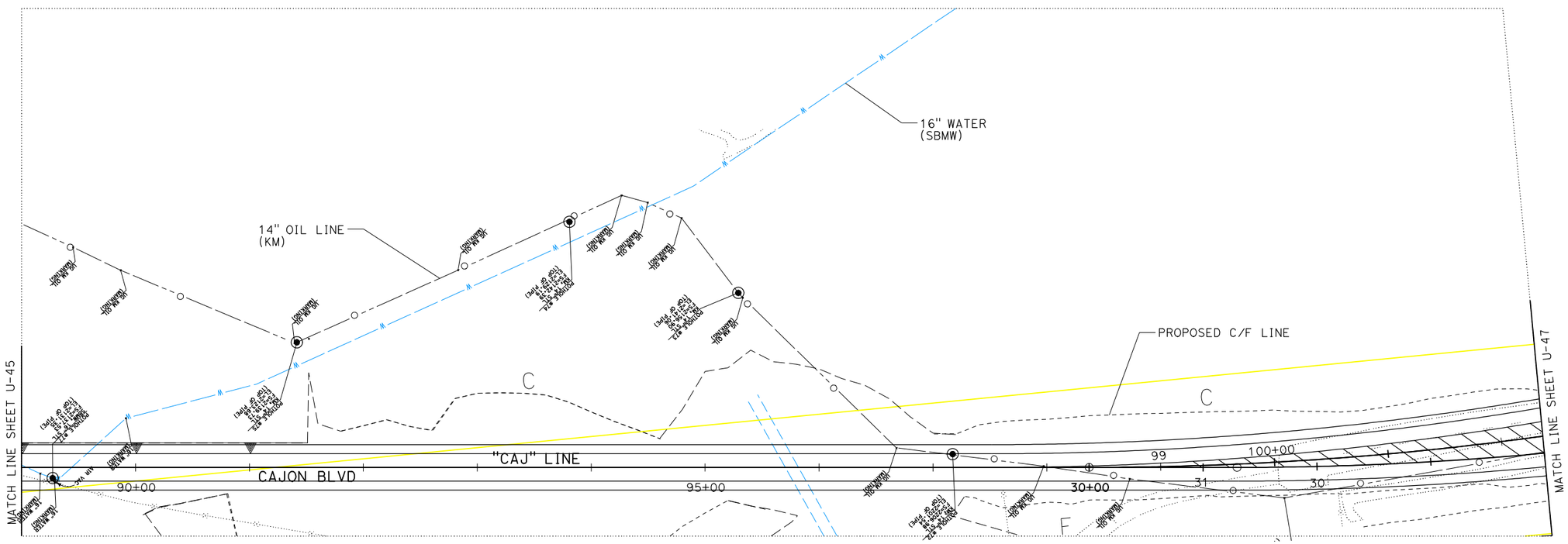

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-46

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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DATE REVISED

LAST REVISION 04-11-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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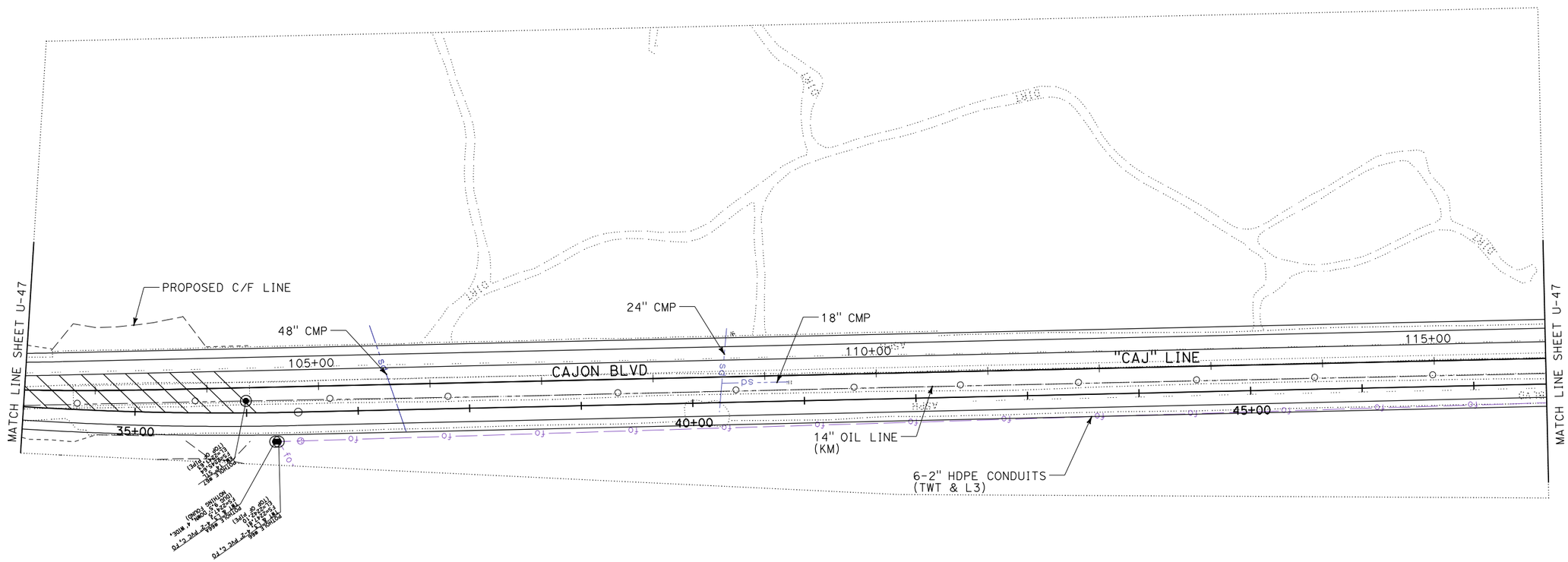

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-47

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-11-12

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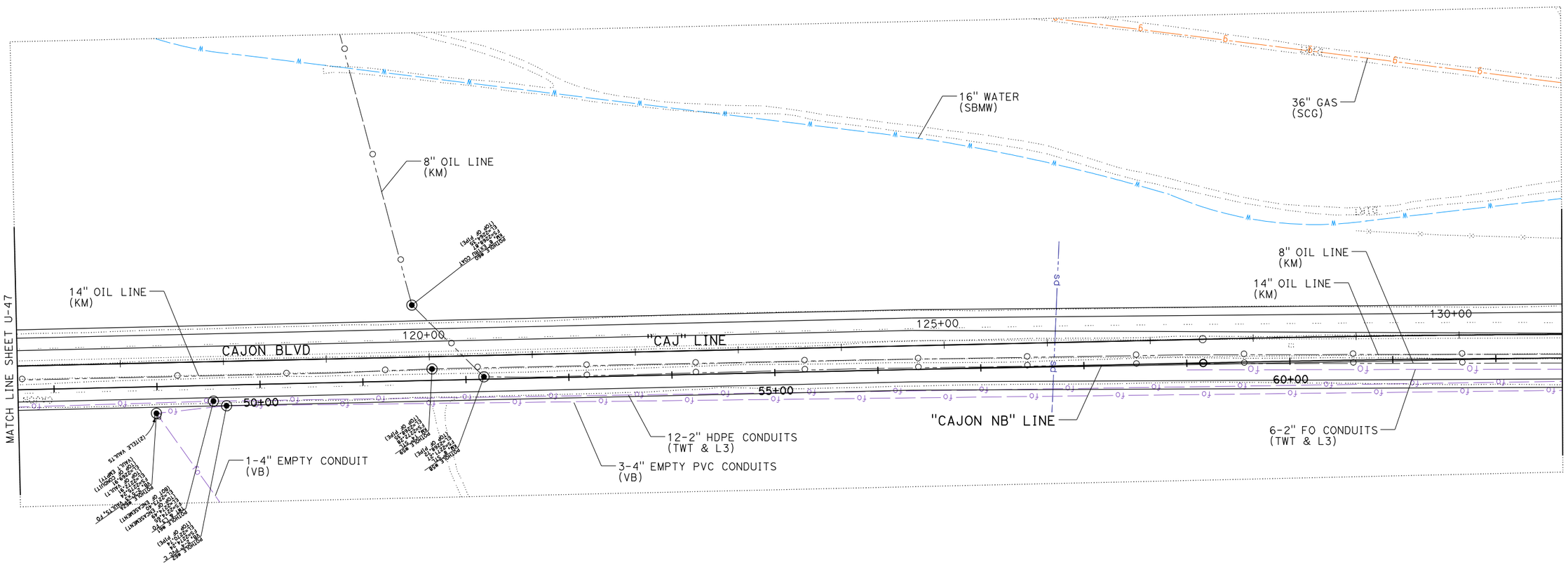

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-48

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-11-12

DATE PLOTTED => 13-APR-2012
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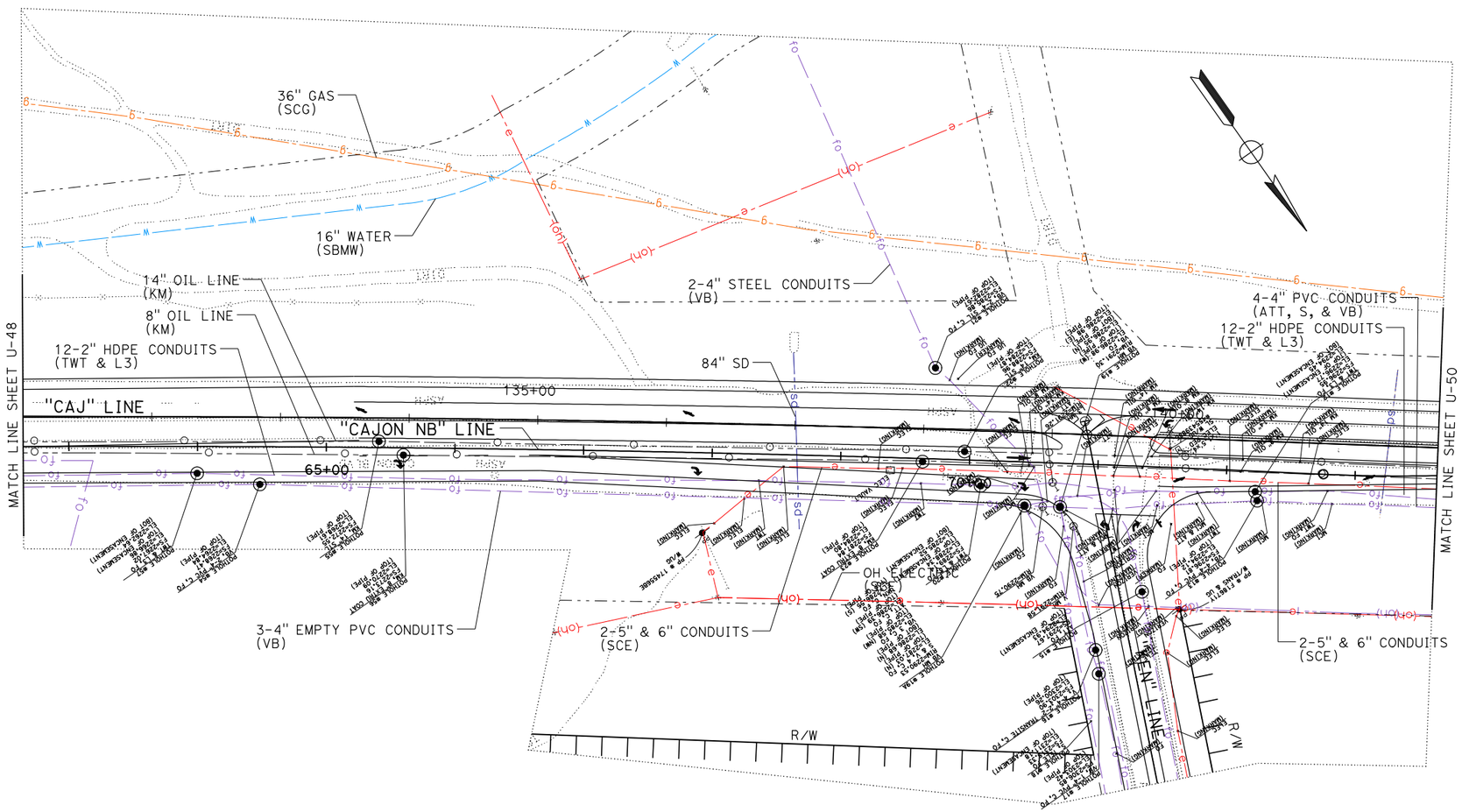

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-49

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-11-12

DATE PLOTTED => 13-APR-2012

TIME PLOTTED => 11:36

BORDER LAST REVISED 7/2/2010

USERNAME => s111075

DGN FILE => 080k710ka049.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

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PLANS APPROVAL DATE

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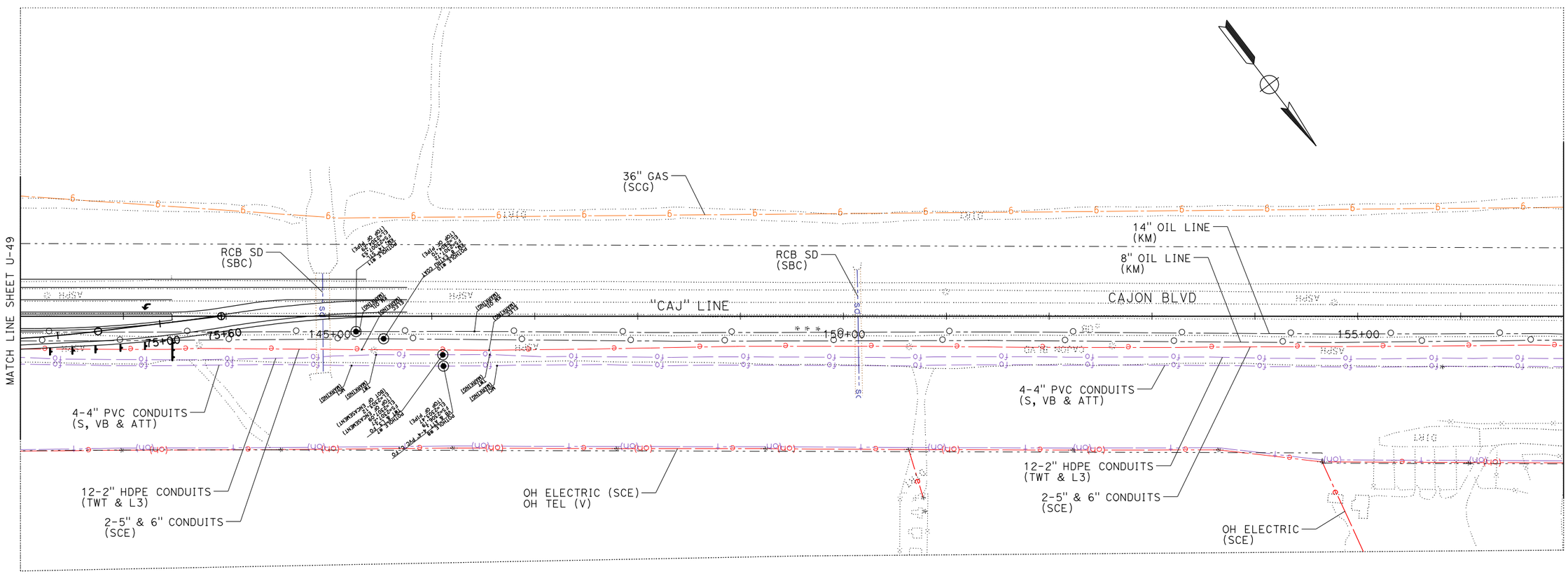

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-50

REVISED BY	
DATE REVISED	
CALCULATED-DESIGNED BY	JONATHAN DEN HARTOG
CHECKED BY	
FUNCTIONAL SUPERVISOR	JESUS PAEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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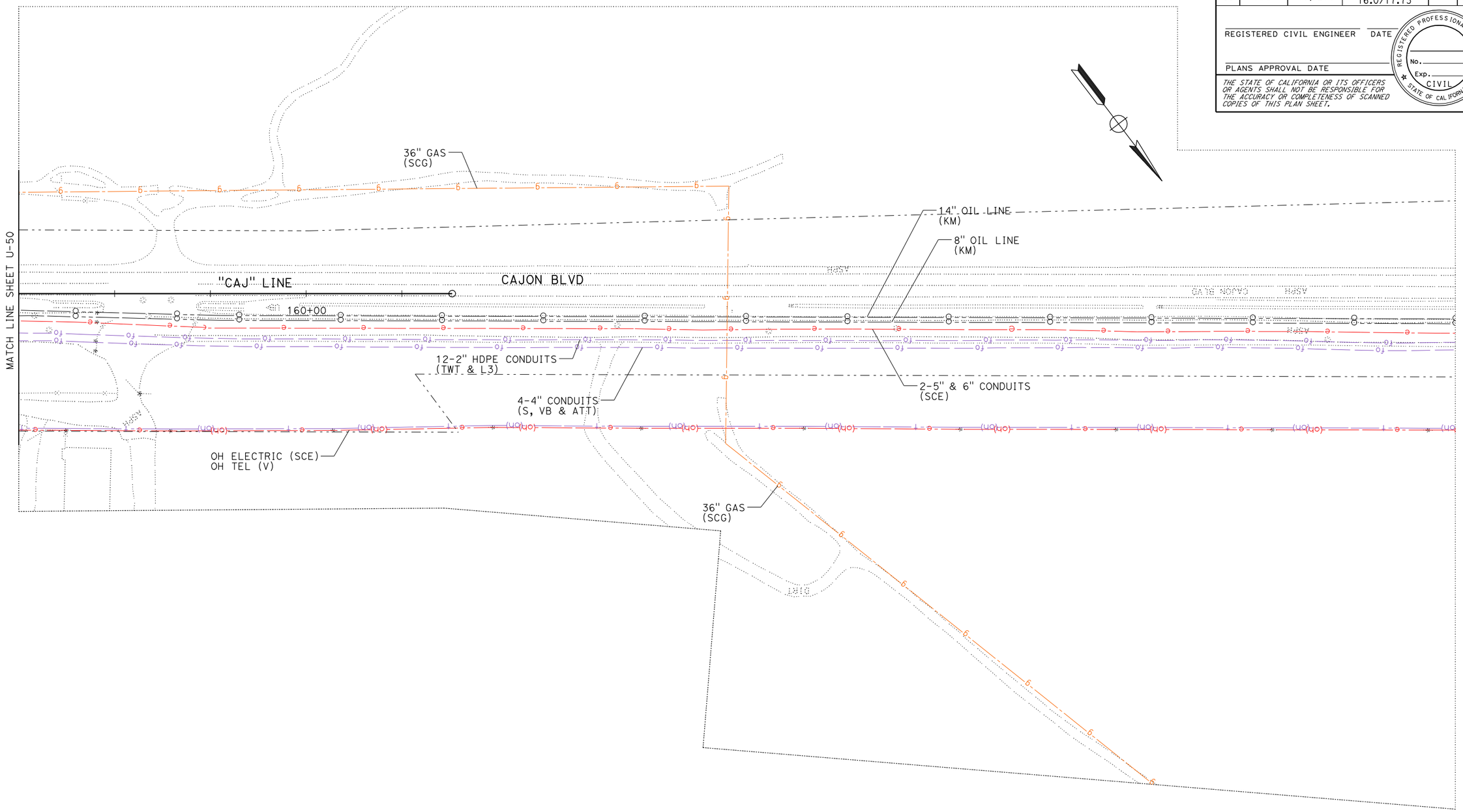

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-51

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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LAST REVISION 04-11-12

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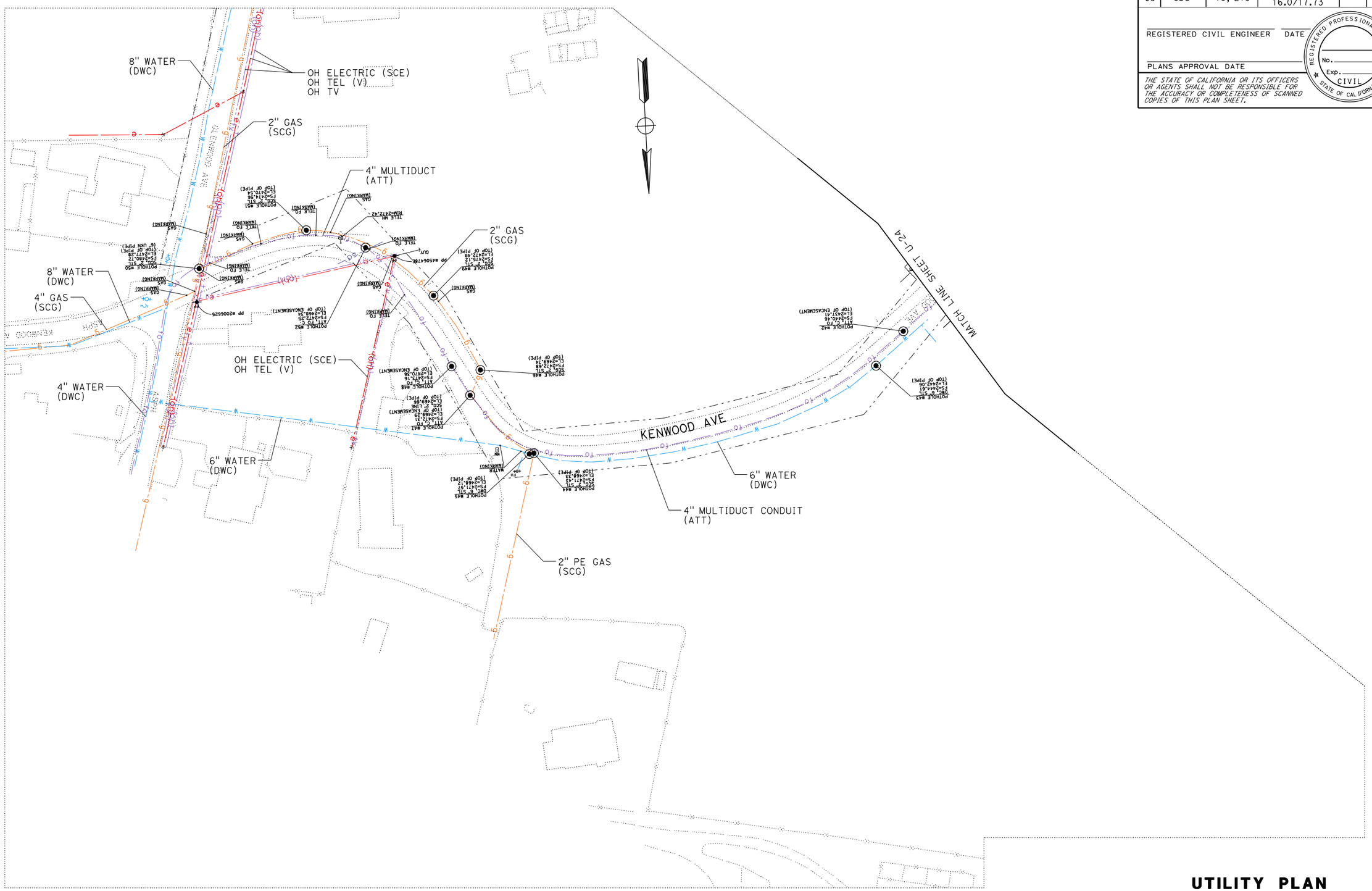

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-52

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CHECKED BY

JONATHAN DEN HARTOG

FUNCTIONAL SUPERVISOR

JESUS PAEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

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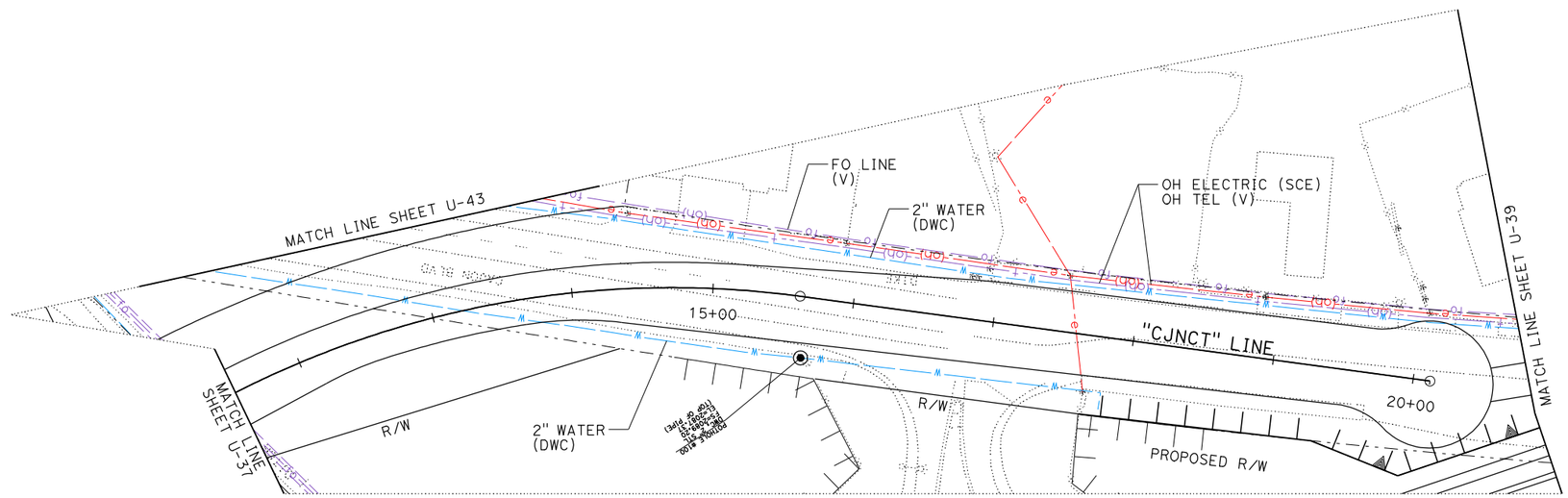

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SCALE: 1"=50'

U-53

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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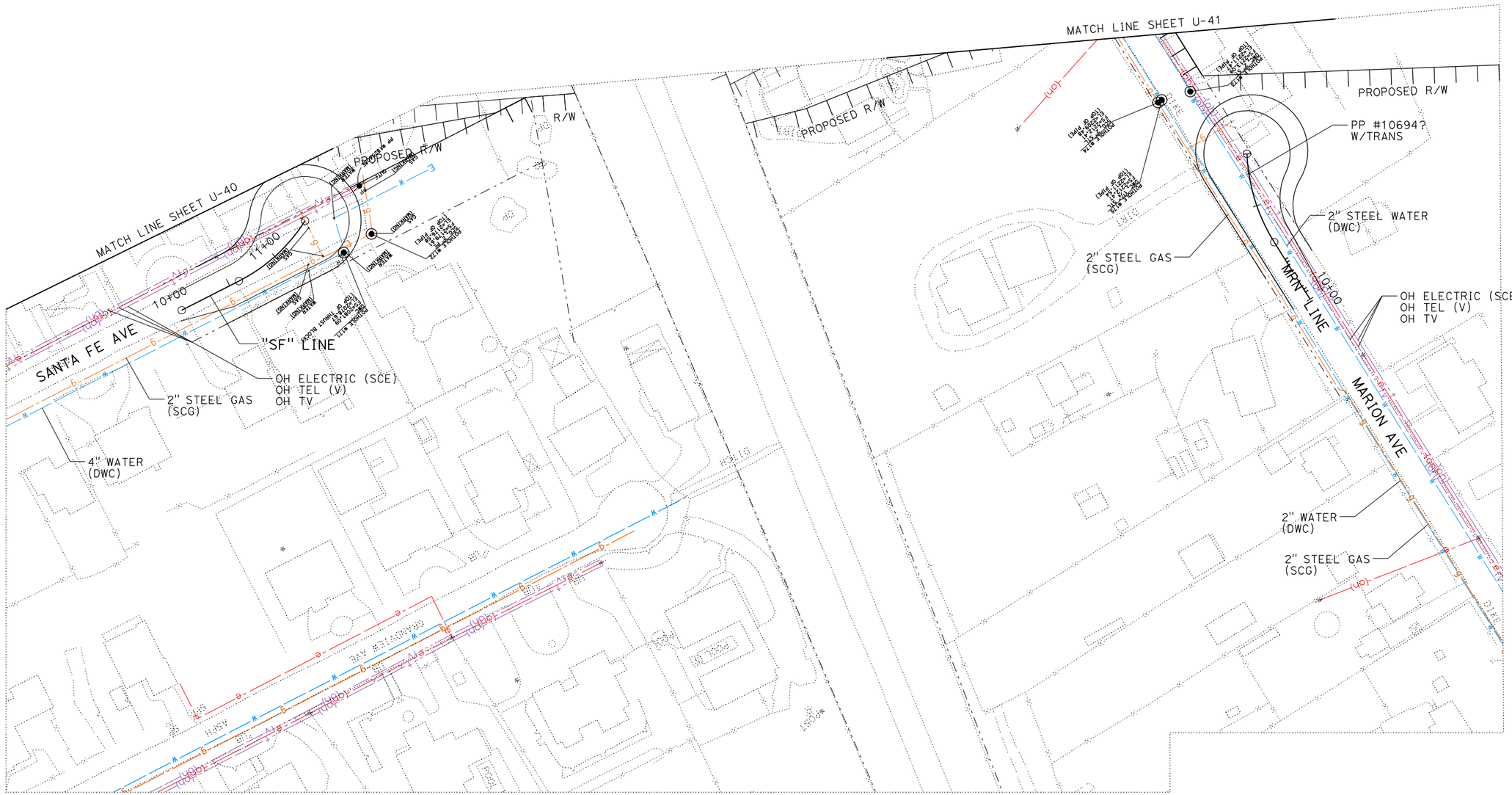

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-54

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

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REVISED BY

DATE REVISED

LAST REVISION 04-11-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:36

BORDER LAST REVISED 7/2/2010

USERNAME => s111075
DGN FILE => 080k710ka054.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 08000003661

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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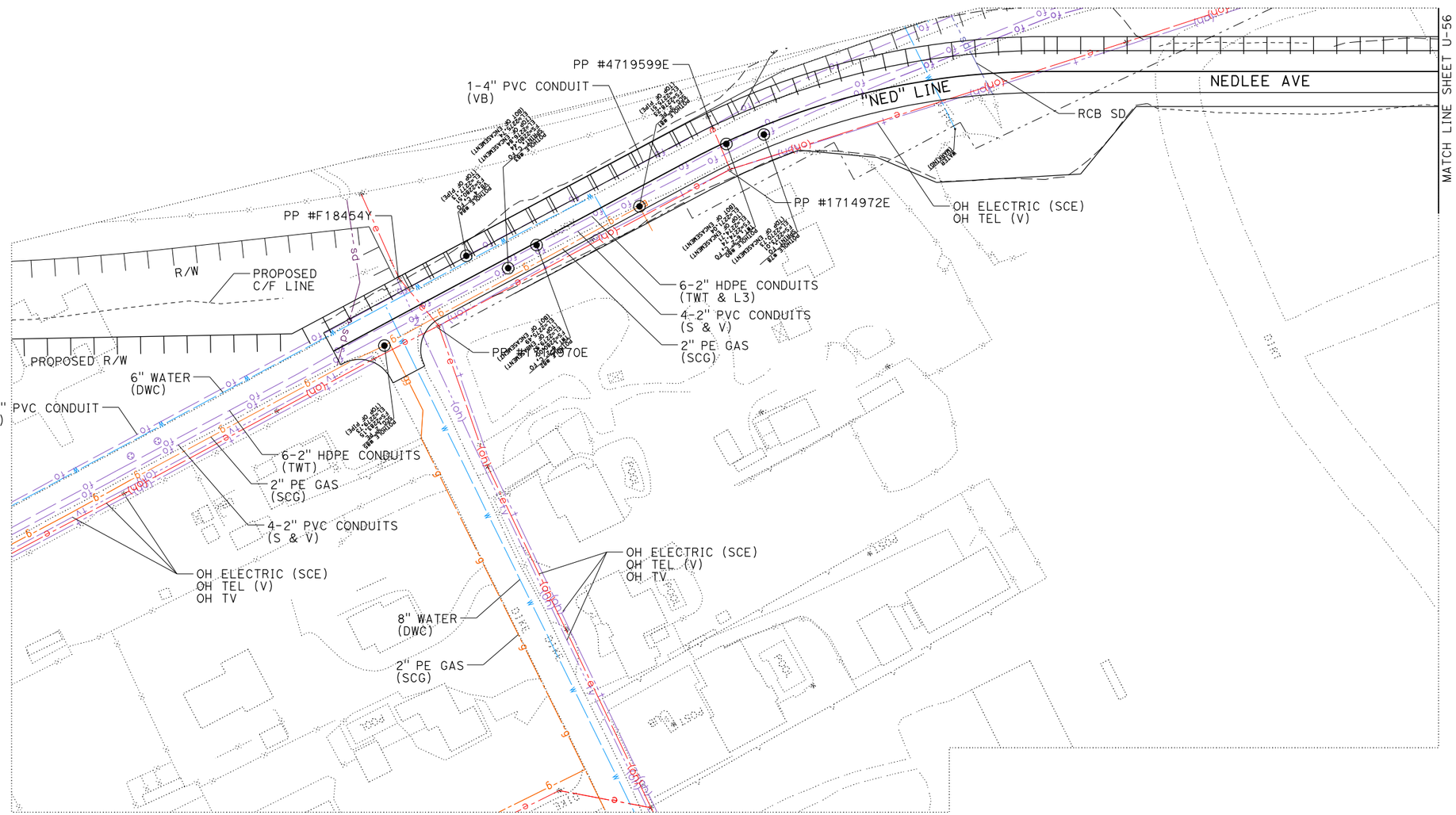

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-55

REVISED BY	
DATE REVISED	
CALCULATED-DESIGNED BY	JONATHAN DEN HARTOG
CHECKED BY	
FUNCTIONAL SUPERVISOR	JESUS PAEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 04-11-12

DATE PLOTTED => 13-APR-2012
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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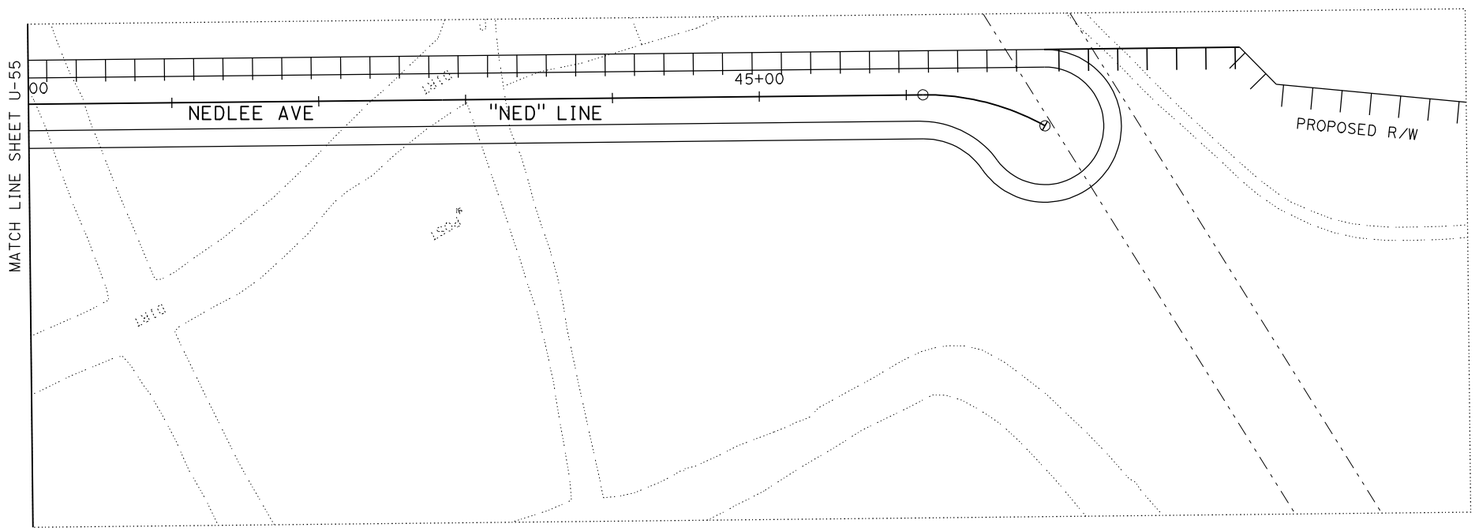

THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-56

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-11-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:36

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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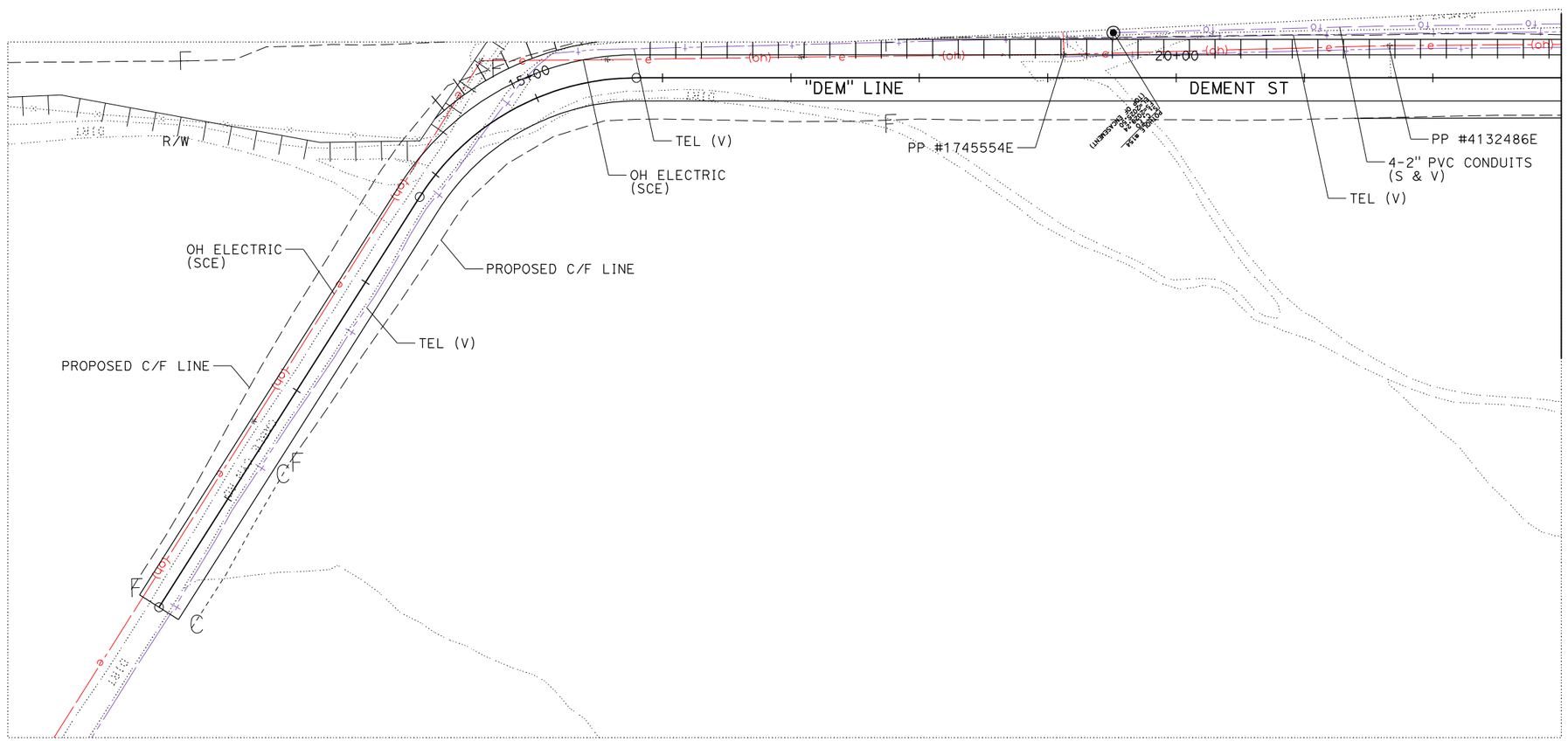


THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-57

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: JESUS PAEZ

CALCULATED-DESIGNED BY: JONATHAN DEN HARTOG

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 04-11-12

DATE PLOTTED => 13-APR-2012
TIME PLOTTED => 11:36

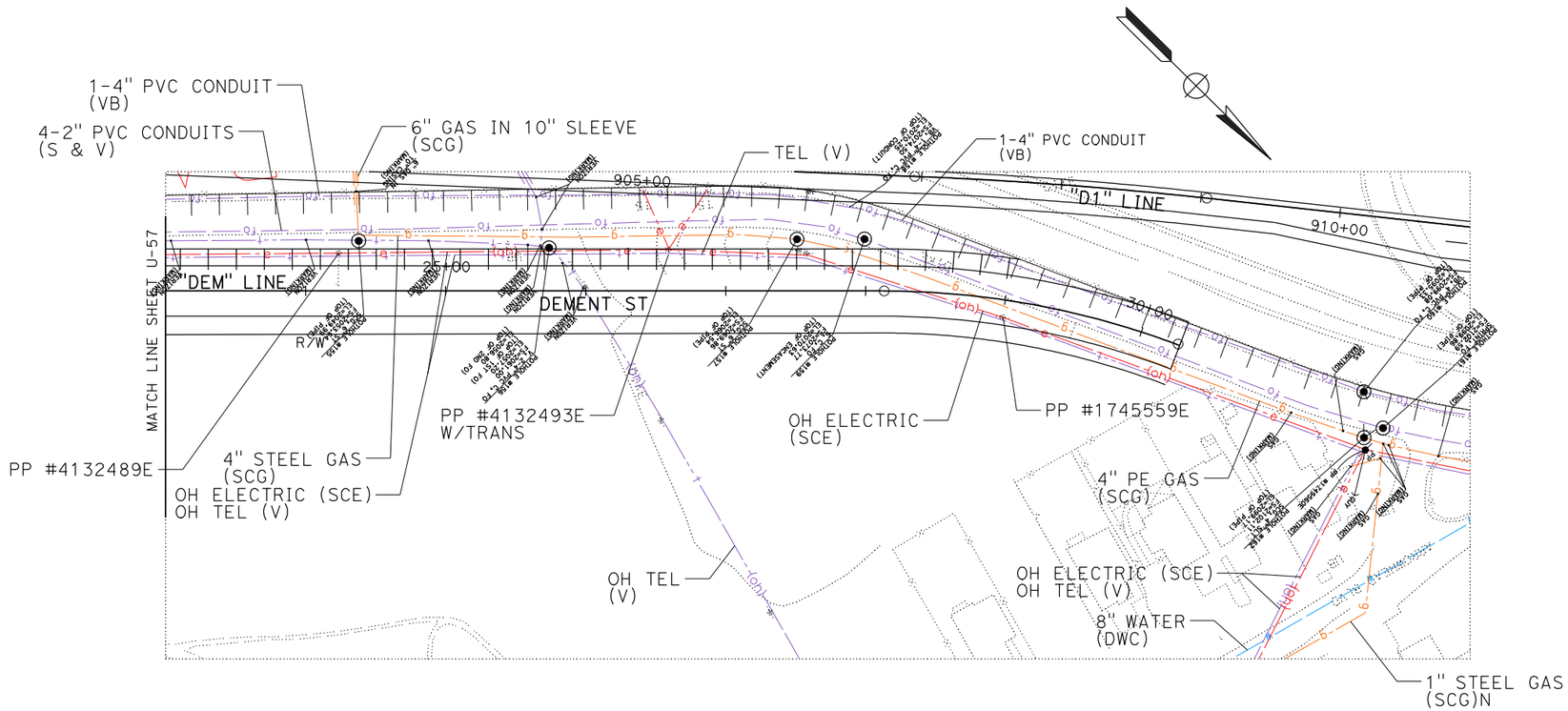
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15, 215	13.5/16.0, 16.0/17.73		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



THIS PLAN FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1"=50'

U-58

LAST REVISION	DATE PLOTTED => 13-APR-2012
04-11-12	TIME PLOTTED => 11:36

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	JONATHAN DEN HARTOG
CHECKED BY	
FUNCTIONAL SUPERVISOR	JESUS PAEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

Exhibit 6-G: Devore Road OC Utility Opening Requirements

STATE OF CALIFORNIA•DEPARTMENT OF TRANSPORTATION ENGINEERING SERVICES, DEPARTMENT OF STRUCTURES DESIGN **EXHIBIT 6-G: DEVORE ROAD OC UTILITY OPENING REQUIREMENTS**	UTILITY NO:	DISTRICT: 8	COUNTY: SBd	ROUTE: 215	KPM (Kilo-postmile):
	INTERSTATE NO: 15	CHARGE NO:		E.W.A. NO.:	

NOTE:

Added information may be placed below under additional information. Select appropriate row letter (Column (2)) and Column number for identification.

Column (18) needs to be specified.

Rows "P" to "U" (Column (1)) to be used for other utilities; for example, communication, petroleum, etc.

If Columns (9), (14), & (15) are used, indicate under additional information who will pay for the relocation, i.e., % State, % Utility Company.

*Usual procedure, Columns 10, 11, and 13.

TYPE OF UTILITY		NAME OF UTILITY	CARRIER PIPE DUCTS (GIVE SIZE AND TYPE)	SIZE OF CASING OR DIMENSIONS OF CONDUIT (DIMENSIONS AT BELL END OF PIPE OR CONDUIT)	SIZE OF OPENINGS REQUIRED THROUGH BENT CAPS AND ABUTMENTS (RECTANGULAR W x H, ROUND ϕ)	LOCATION OF OPENINGS (USE S, NE, ETC. OF ∝ OF STREET)				MANHOLES REQUIRED WITH CRAWL SPACE THROUGH DIAPHRAGMS (CRAWL SPACE MIN. 670 mm x 670 mm NET)	MANHOLE FRAME AND COVER TO BE FURNISHED AND INSTALLED BY STATE CONTRACTOR	MANHOLE FRAME AND COVER TO BE FURNISHED BY UTILITY COMPANY & INSTALLED BY STATE CONTRACTOR	HANGER HARDWARE TO BE FURNISHED BY UTILITY COMPANY & INSTALLED BY STATE CONTRACTOR	UTILITY SUPPORTS TO BE FURNISHED & INSTALLED BY: U = UTILITY COMPANY, S = STATE CONTRACTOR	CASING AND / OR CARRIER PIPE FURNISHED AND INSTALLED BY UTILITY COMPANY	CASING AND / OR CARRIER PIPE FURNISHED AND INSTALLED BY STATE CONTRACTOR	CASING TO BE FURNISHED BY UTILITY COMPANY AND INSTALLED BY STATE CONTRACTOR	ULTIMATE WEIGHT PER FOOT (WEIGHT OF CARRIER, CASING, CONTENTS & SUPPORTS)	MAXIMUM PRESSURE OR VOLTAGE	ON STRUCTURE SPECIFY: Devore Road Overcrossing (New)	OFF STRUCTURE SPECIFY:	OTHER:
(1)	(2)	(3)	(4)	(5)	(6)	(7)				(8)	(9)	(10*)	(11*)	(12)	(13*)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
NUTURAL GAS	A	Southern California Gas	6" Plastic	12" Steel			m	S	∝	N/A	N/A	N/A	N/A	S	No	No	Yes	Unknown	60 lbs			
	B						m		∝													
POWER	C	Edison	6-5" sch 40 PVC	6" O.D.	18"w x 26" h		m	S	∝	No	No	No	No	U	Yes	No	No	64.5 lbs/ft	12Kv			4-runs 3-1/c 1000 jcn
	D	Edison	6-5" HDG Steel	6" O.D.	18"w x 26"h		m	S	∝	No	No	No	No	U	Yes	No	No	124 lbs/ft	12Kv			Same as above.
	E						m		∝													
TELEPHONE	F	Verizon Telecom	4 - 4"				m	N	∝													
	G						m		∝													
	H						m		∝													
SEWER	J						m		∝													
	K						m		∝													
WATER	L	Devore Water Company	12" CL-50 DIP	24" OD .250 Wall Bare steel	30"		m		∝					S	Yes			160 lbs per L.F.	200 PSI			
	M						m		∝													
	N						m		∝													
	P						m		∝													
	R						m		∝													
	S						m		∝													
	T						m		∝													

	U						m		⊄													
LETTER	NO:	ADDITIONAL INFORMATION								LETTER	NO:	ADDITIONAL DATA						UTILITY INFORMATION				
A		Openings for SCG line should be as close to the south (east) edge of the bridge as feasible to simplify installation of vents.								D		This utility will only be installed if the bridge is an open cell/girder type. Otherwise see Row C.						BRIDGE NAME: Devore Road OC (New)		BRIDGE NUMBER:		
L	13	Casing, spacers inside casing.								C	7	Provide Edison with a southerly cell with no drains or anything else in the cell.										
L	4	Mechanical Tyton Joints - w/ Megalug Restraints								D	12	Provide Edison with the girder type being used so Edison can provide the insert to be installed by the Design-Builder per Edison's standard drawings						DATE: 5/11/2012		R/W UTILITY ENGINEER:		
C		This utility will only be installed if the bridge is a closed cell bridge. Otherwise see Row D.																				

Exhibit 6-G: Devore Road OC Utility Opening Requirements

Exhibit A

Lane Requirement Charts

Chart No. 1
EA#: 0K7100
Freeway/Expressway Lane Requirements

County: San Bernardino	Route/Direction: 15/nb	PM: 14.0-R16.4

Closure Limits: 2 lane section (PM: R13.779-R14.275)

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	1	1	1	1																					1
Fridays																									
Saturdays	1	1	1	1																					
Sundays	1	1	1	1	1	1																			1

Legend:

1	Provide at least one through freeway lane open in direction of travel
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 2
EA#: 0K7100
Freeway/Expressway Lane Requirements

County: San Bernardino	Route/Direction: 15/nb	PM: 14.0-R16.4

Closure Limits: 3 lane section (PM: 14.50-16.374)

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	1	1	1	1	2	2																2	2	1	
Fridays																									
Saturdays	1	1	1	1	2	2																		2	
Sundays	1	1	1	1	1	1	2	2														2	2	1	

Legend:

1	Provide at least one through freeway lane open in direction of travel
2	Provide at least two adjacent through freeway lanes open in direction of travel
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 3
EA#: 0K7100
Freeway/Expressway Lane Requirements

County: San Bernardino	Route/Direction: 15/nb	PM: 14.0-R16.4

Closure Limits: 4 lane section (PM: 14.00-14.50)

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	1	1	1	1	2	2															3	2	2	1	
Fridays																									
Saturdays	1	1	1	1	2	2	3	3													3	3	3	2	
Sundays	1	1	1	1	1	1	2	2													3	2	2	1	

Legend:

1	Provide at least one through freeway lane open in direction of travel
2	Provide at least two adjacent through freeway lanes open in direction of travel
3	Provide at least three adjacent through freeway lanes open in direction of travel
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 4
EA#: 0K7100
Freeway/Expressway Lane Requirements

County: San Bernardino	Route/Direction: 15/nb	PM: 14.0-R16.4

Closure Limits: 5 lane section (PM: R14.273-R16.40)

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	1	1	1	1	2	2														4	3	2	2	1	
Fridays																									
Saturdays	1	1	1	1	2	2	3	3												4	3	3	3	2	
Sundays	1	1	1	1	1	1	2	2												4	3	2	2	1	

Legend:

1	Provide at least one through freeway lane open in direction of travel
2	Provide at least two adjacent through freeway lanes open in direction of travel
3	Provide at least three adjacent through freeway lanes open in direction of travel
4	Provide at least four adjacent through freeway lanes open in direction of travel
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 5
EA#: 0K7100
Freeway/Expressway Lane Requirements

County: San Bernardino	Route/Direction: 215/nb	PM: 16.0-17.8

Closure Limits:

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	1	1	1	1	1																1	1	1	1	
Fridays																									
Saturdays	1	1	1	1	1	1																1	1	1	
Sundays	1	1	1	1	1	1	1	1													1	1	1	1	

Legend:

1	Provide at least one through freeway lane open in direction of travel
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 6
EA#: 0K7100
Freeway/Expressway Lane Requirements

County: San Bernardino	Route/Direction: 15/sb	PM: 14.0-R16.4

Closure Limits: 2 lane section (PM: R14.048)

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays																							1	1	
Tuesdays through Thursdays	1	1																					1	1	
Fridays	1	1																						1	
Saturdays	1	1	1	1																					
Sundays																									

Legend:

1	Provide at least one through freeway lane open in direction of travel
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 7
EA#: 0K7100
Freeway/Expressway Lane Requirements

County: San Bernardino	Route/Direction: 15/sb	PM: 14.0-R16.4

Closure Limits: 3 lane section (PM: R13.779-R14.048, 14.50-16.374)

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays																				2	2	2	1	1	
Tuesdays through Thursdays	1	1	2																	2	2	2	1	1	
Fridays	1	1	2																			2	2	1	
Saturdays	1	1	1	1	2																		2	2	
Sundays																									

Legend:

1	Provide at least one through freeway lane open in direction of travel
2	Provide at least two adjacent through freeway lanes open in direction of travel
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 8
EA#: 0K7100
Freeway/Expressway Lane Requirements

County: San Bernardino	Route/Direction: 15/sb	PM: 14.0-R16.4

Closure Limits: 4 lane section (PM: R14.787-R16.40, 14.00-14.50)

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays																				2	2	2	1	1	
Tuesdays through Thursdays	1	1	2	3																2	2	2	1	1	
Fridays	1	1	2	3																3	3	2	2	1	
Saturdays	1	1	1	1	2	3														3	3	3	2	2	
Sundays																									

Legend:

1	Provide at least one through freeway lane open in direction of travel
2	Provide at least two adjacent through freeway lanes open in direction of travel
3	Provide at least three adjacent through freeway lanes open in direction of travel
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 9
EA#: 0K7100
Freeway/Expressway Lane Requirements

County: San Bernardino	Route/Direction: 15/sb	PM: 14.0-R16.4

Closure Limits: 6 lane section (PM: R14.048-R14.787)

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays																		4	3	2	2	2	1	1	
Tuesdays through Thursdays	1	1	2	3																2	2	2	1	1	
Fridays	1	1	2	3															4	3	3	2	2	1	
Saturdays	1	1	1	1	2	3	4												4	3	3	3	2	2	
Sundays																									

Legend:

1	Provide at least one through freeway lane open in direction of travel
2	Provide at least two adjacent through freeway lanes open in direction of travel
3	Provide at least three adjacent through freeway lanes open in direction of travel
4	Provide at least four adjacent through freeway lanes open in direction of travel
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 10
EA#: 0K7100
Freeway/Expressway Lane Requirements

County: San Bernardino	Route/Direction: 215/sb	PM: 16.0-17.8

Closure Limits:

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays																			1	1	1	1	1	1	
Tuesdays through Thursdays	1	1	1	1															1	1	1	1	1	1	
Fridays	1	1	1	1																1	1	1	1	1	
Saturdays	1	1	1	1	1	1	1													1	1	1	1	1	
Sundays																									

Legend:

1	Provide at least one through freeway lane open in direction of travel
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 11
EA#: 0K7100
Complete Freeway Closure Hours

County: San Bernardino	Route/Direction: 15/nb	PM: 14.0-R16.4

Closure Limits:

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C																						
Fridays																									
Saturdays		C																							
Sundays		C	C	C	C																				

Legend:

C	Freeway or expressway may be closed completely.
	No complete freeway or expressway closure is permitted.

REMARKS: A total of 2 nights of full closure shall take place for falsework and bridge overhead signs.

Date: 2012~~1~~ Developed by: ~~LCRC~~ct ~~Validity: 18 months~~

Chart No. 12
EA#: 0K7100
Complete Freeway Closure Hours

County: San Bernardino	Route/Direction: 215/nb	PM: 14.0-R16.4

Closure Limits:

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C																		C	C	C	
Fridays																									
Saturdays	C	C	C	C	C	C																		C	
Sundays	C	C	C	C	C	C	C															C	C	C	

Legend:

C	Freeway or expressway may be closed completely.
	No complete freeway or expressway closure is permitted.

REMARKS: A total of 7 nights of full closure shall take place for falsework and bridge overhead signs.

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 13
EA#: 0K7100
Complete Freeway Closure Hours

County: San Bernardino	Route/Direction: 15/sb	PM: 14.0-R16.4

Closure Limits:

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays																									
Tuesdays through Fridays~~Wednesdays~~	C																								
~~Thursdays through Fridays~~																									
Saturdays		C																							
Sundays		C	C	C																					

Legend:

C	Freeway or expressway may be closed completely.
	No complete freeway or expressway closure is permitted.

REMARKS: A total of 8 nights of full closure shall take place for falsework and bridge overhead signs.

Date: 2012~~1~~ Developed by: ~~LCRC~~ ct ~~Validity: 18 months~~

Chart No. 14
EA#: 0K7100
Complete Freeway Closure Hours

County: San Bernardino	Route/Direction: 215/sb	PM: 14.0-R16.4

Closure Limits:

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays																					C	C	C	C	
Tuesdays through Thursdays	C	C	C	C																	C	C	C	C	
Fridays	C	C	C	C																		C	C	C	
Saturdays	C	C	C	C	C																		C	C	
Sundays																									

Legend:

C Freeway or expressway may be closed completely.

No complete freeway or expressway closure is permitted.

REMARKS: A total of 8 nights of full closure shall take place for falsework and bridge overhead signs.

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 15
EA#: 0K7100
Complete Connector Closure Hours

County: San Bernardino	Route/Direction: 15/nb	PM: R13.9

Closure Limits: NB 15 on from NB 215 (PM R13.900)

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Wednesdays	C	C	C	C	C																	C	C	C	
Thursdays	C	C	C	C	C																				
Fridays																									
Saturdays	C	C	C	C	C	C																C	C	C	
Sundays	C	C	C	C	C	C																C	C	C	

Legend:

C Connector may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 16
EA#: 0K7100
Complete Connector Closure Hours

County: San Bernardino	Route/Direction: 15/nb	PM: 16.13

Closure Limits: NB 15 to SB 215 (PM 16.137)

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																	C	C	C	
Fridays	C	C	C	C	C																	C	C	C	
Saturdays	C	C	C	C	C	C																C	C	C	
Sundays	C	C	C	C	C	C																C	C	C	

Legend:

C	Connector may be closed completely
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 17
EA#: 0K7100
Complete Connector Closure Hours

County: San Bernardino	Route/Direction: 15/sb	PM: R13.8

Closure Limits: SB 15 to SB 215 (PM R13.800)

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays																						C	C	C	
Tuesdays through Thursdays	C	C	C	C	C																	C	C	C	
Fridays	C	C	C	C	C																	C	C	C	
Saturdays	C	C	C	C	C																				
Sundays																									

Legend:

C	Connector may be closed completely
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 18
EA#: 0K7100
Complete Connector Closure Hours

County: San Bernardino	Route/Direction: 215/nb	PM: 17.48

Closure Limits: NB 215 to SB 15 (PM 17.489)

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																	C	C	C	
Fridays	C	C	C	C	C																	C	C	C	
Saturdays	C	C	C	C	C																	C	C	C	
Sundays	C	C	C	C	C																	C	C	C	

Legend:

C Connector may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 19
EA#: 0K7100
Complete Ramp Closure Hours

County: San Bernardino	Route/Direction: 15/nb	PM: 14.0-R16.4

Closure Limits:

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Wednesdays	C	C	C	C	C	C														C	C	C	C	C	
Thursdays through Fridays	C	C	C	C	C	C																	C	C	
Saturdays	C	C	C	C	C	C	C	C												C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C												C	C	C	C	C	

Legend:

C Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 20
EA#: 0K7100
Complete Ramp Closure Hours

County: San Bernardino	Route/Direction: 215/nb	PM: 16.0-17.8

Closure Limits:

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																C	C	C	C	
Fridays	C	C	C	C	C																		C	C	
Saturdays	C	C	C	C	C	C																C	C	C	
Sundays	C	C	C	C	C	C	C	C													C	C	C	C	

Legend:

C Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 21
EA#: 0K7100
Complete Ramp Closure Hours

County: San Bernardino	Route/Direction: 15/sb	PM: 14.0-R16.4

Closure Limits:

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Wednesdays	C	C	C	C																C	C	C	C	C	
Thursdays through Fridays	C	C	C	C																			C	C	
Saturdays	C	C	C	C	C	C	C													C	C	C	C	C	
Sundays	C	C	C	C	C	C	C													C	C	C	C	C	

Legend:

C Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Chart No. 22
EA#: 0K7100
Complete Ramp Closure Hours

County: San Bernardino	Route/Direction: 215/sb	PM: 16.0-17.8

Closure Limits:

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C															C	C	C	C	C	C	
Fridays	C	C	C	C																C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C													C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C														C	C	C	

Legend:

C	Ramp may be closed completely
	Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Date: 2/25/2011 Developed by: ct/sy ~~Validity: 18 months~~

Index of Reference Information Documents

A "W" under available column indicates documents that can be found on the Internet, an "E" indicates the document will be provided electronically, and "CO" indicates the Design-Builder shall obtain the document. Web sites are not guaranteed but are supplied for information. It is ultimately the Design-Builder's responsibility to locate the documents.

Title	Available
EXISTING INFORMATION	
As-Built Plans	
As-Built Plans.zip – Zipped folder containing the following:	E
I-15	
SBd 15-Index.pdf – Index of As-Built Plans along I-15	E
I-15.zip – Zipped folder containing As-Built Plans for various projects along I-15 in PDF format	E
I-215	
SBd 215-Index.pdf – Index of As-Built Plans along I-215	E
I-215.zip – Zipped folder containing As-Built Plans for various projects along I-215 in PDF format	E
Structures	
Structures.zip - Zipped folder containing As-Built Plans for the following:	E
54-0525 Devore Rd OC.pdf – Devore Rd Overcrossing	E
54-771 Center Conn UC.pdf – I-15 to I-215 Connector	E
54-772 Kenwood Ave UC.pdf – Kenwood Ave Undercrossing	E
54-0779 Glen Helen Pkwy UC.pdf – Glen Helen Pkwy Undercrossing	E

Title	Available
54-0780 Glen Helen Rd UC.pdf – Glen Helen Road Undercrossing	E
54-0781 Cajon Creek.pdf – Cajon Creek Bridges Rehabilitation	E
54-0782 N215-S15 Conn UC.pdf – NB I-215 to SB I-15 Connector	E
54-0783 15,215 Sep.pdf – 15/215 Separation	E
54-0818 Devore OH.pdf – Devore Rd Overhead	E
54-0844 Devore Rd OC,215S Coll.pdf – Devore Rd/S215 Collector Overcrossing	E
Survey	
Mainline Local Roads Alignments.zip – Zipped folder containing survey information on the Connectors, Local roads and the Mainline Alignments	E
RR Ties to Bridge.zip – Zipped folder containing DGN Files for Railroad Ties to Bridges	E
Utilities	
Utility Plans-pdf_w_layers.zip – Zipped folder containing Key Maps, Index & Utility Plans	E
Utility Correspondence.zip – Zipped folder containing various correspondence with utility companies	E
SCE Relocation 1.pdf –Southern California Edison relocation plan	E
SCE Relocation 2.pdf – Southern California Edison relocation plan	E
RID Sample Utility Agreement.pdf	E
Devore Water Line Guidelines.pdf – General guidelines for water line construction	E
Submittal Requirements for Joint Relocations.pdf – Requirements for relocation of Southern California Edison facilities	E
CSFM.pdf – CalFire Information Bulletin 03-001 Encroachments into or on Pipeline Easements	E

Title	Available
LO-M 200-29.pdf – Kinder Morgan Guidelines for Design and Construction near Hazardous Liquid Operated Facilities	E
Utility Contacts List.pdf – Contact list for utility companies with facilities within the project limits.	
PROJECT STUDIES	
Environmental	
Final ED 2-29-12.pdf – Initial Study with Mitigated Negative Declaration / Environmental Assessment with Finding of No Significant Impact dated February 29, 2012	E
Final ED Appendices 2-29-12.pdf	E
Design	
Project Study Report.pdf	E
Approved Project Report.pdf	E
Modified Access Report – Zipped folder containing files for the Modified Access Report (MAR) and Attachments A-H	E
ValueAnalysisL80025.125_I15&I215_Connectors.pdf	E
TECHNICAL REPORTS	
Environmental	
VIA approved_01-28-11.pdf – Visual Impact Assessment	E
ADL_Study_within_existRW_PAED Phase.pdf – Aerial Deposited Lead Study	E
HazWaste_ISA.pdf – Hazardous Waste Initial Site Assessment	E

Title	Available
HW ISA Appendices.pdf – Hazardous Waste Initial Site Assessment Appendices	E
Asbestos Containing Materials Report_Bridges_05032011.pdf – Asbestos Containing Materials Survey Report	E
Geotechnical Studies & Archives	
Geotech-Archives.zip – Zipped folder containing archived geotechnical records for various structures	E
Fault Rupture Study.zip – Zipped folder containing files for the Fault Rupture Study that was performed for this project including the Final Foundation Design Recommendations for Kenwood Ave UC	E
Hydraulics	
Cable Creek Location Hydraulic Study.pdf	E
Cajon Creek Location Hydraulic Study.pdf	E
Cajon Creek CSU Long Beach Study.pdf	E
Existing_Drainage.pdf	E
Preliminary Drainage Report.pdf	E
WildlifeMitigation.zip – Wildlife mitigation wall and tunnel/culvert at Pittman Canyon and Matthews Ranch Road	E
Existing Drainage Photos.zip – Zipped folder containing photos of existing drainage systems	E
Material Engineering	
LCCA_PAED phase.pdf – Life Cycle Cost Analysis for the PAED phase	E
Preliminary Materials Report.pdf	E
Operations	
TOA Report_January 2010.pdf – Traffic Operations Analysis (TOA)	E

Title	Available
TOA Appendices_January 2010.pdf – TOA Appendices	E
Roadway – Preliminary Geotechnical Report	
Roadway PGR.pdf – Preliminary Geotechnical Report (PGR)	E
Addendum-No-1-PGR.pdf – Addendum No. 1 to PGR	E
Right of Way	
Devore r-w data sheet 11-16-11 signed part 1 of 2.pdf	E
Devore r-w data sheet 11-16-11 signed part 2 of 2.pdf	E
County Maps for Glen Helen Park Boundaries.pdf	E
GHR Park Development Plan_Parking Lot_1993.pdf	E
R_W Activities Plan RID.pdf – Right of Way Activities Plan showing target completion dates	E
Stormwater	
Stormwater Data Report_PAED Phase.pdf – Stormwater Data Report for the PA&ED phase	E
Structures – Advance Planning Studies	
Structures.zip - Zipped folder containing the following Advance Planning Studies:	
CC_FINAL APS Report.pdf – Cajon Creek Bridge (Widen)	E
DOH_FINAL APS Report.pdf – Devore Overhead (Widen)	E
DROC_FINAL APS Report.pdf – Devore Road Overcrossing (Replace)	E
GHP_FINAL APS Report.pdf – Glen Helen Parkway Undercrossing (Widen)	E

Title	Available
GHR_FINAL APS Report.pdf – Glen Helen Road Undercrossing (Widen)	E
INT_FINAL APS Report.pdf – I-15/I-215 Interchange Bridges	E
KA_FINAL APS Report.pdf – Kenwood Avenue Interchange Bridges	E
MRR_FINAL APS Report.pdf – Matthews Ranch Road Undercrossing (Lengthen)	E
Structures – Preliminary Geotechnical Reports	
SPGR.zip - Zipped folder containing the following Preliminary Geotechnical Reports:	E
Cajon_Creek_Bridges_3A_Widening_SPGR_9-10-10.pdf	E
Devore_OH_3A_SPGR_9-10-10.pdf	E
Devore_Rd_OC_3A_Replace_SPGR_9-10-10.pdf	E
Glen_Helen_PKWY_UC_3A_SPGR_9-10-10.pdf	E
Glen_Helen_ROAD_UC_3A_SPGR_9-10-10.pdf	E
I-215_Devore_Rd_UC_No_3A-8_SPGR_9-10-10.pdf	E
Kimbark_Canyon_Bridge_No_3A-13_SPGR_9-10-10.pdf	E
Matthews_Ranch_Rd_UC_3A_Widening_SPGR_9-10-10.pdf	E
NB_15_Truck_BP_at_Kenwood_Ave_3A-11_SPGR_9-10-10.pdf	E
Route_215-15_Separation_3A_Widening_SPGR_9-10-10.pdf	E
SB_15_Truck_BP_at_Kenwood_Ave_3A-10A_SPGR_9-10-10.pdf	E
SB_215_ML_Over_Kenwood_Ave_3A-10_SPGR_9-10-10.pdf	E

Title	Available
SB_I-215_Connector_No_3A-9_SPGR_9-10-10.pdf	E
West_Connector_UC_3A_Widening_SPGR_9-10-10.pdf	E
W-S_Connector_UC_No_3A-7_SPGR_9-10-10.pdf	E
MISCELLANEOUS	
Conceptual Plan Review From County.pdf – Conceptual Plan Drawing Review Comments from San Bernardino County	E
Fee Schedule 2011-2012-FCD.pdf – San Bernardino County Control District Schedule of Fees	E
Letter to County_07292011.pdf – Letter to San Bernardino County dated July 29,2011	E
SBdCounty_CuldeSac_Details01.pdf – San Bernardino County Cul-de-sac design details	E
SBdCounty_CuldeSac_Details02.pdf – San Bernardino County Offset Cul-de-sac design details	E
Transportation Fee Schedule - 07 27 2006.pdf – Department of Public Works Schedule of Fees for Transportation Permits	E
EZ Guide_2006.pdf – Quick Reference Guide to Plan Preparation and CADD	E
CONCEPTUAL PLANS	
Geometric Approval Drawings (Also available in DGN format)	
GAD-Cut-Sheets.zip – Devore Reconstruction Key Map & Proposed Project Layout Plan Sheets	E
Profiles.zip – Conceptual Profile Sheets	E
Superelevation Diagrams.zip – Conceptual Superelevation Diagrams	E

Title	Available
Overhead Signing Concept Plan.pdf – Overhead Signing Concept Plan	E
Miscellaneous Plans	
Miscellaneous Conceptual Plans.zip – Zipped folder containing the following files	E
Aerial.pdf – Aerial map of project vicinity	E
Centerline Callout.pdf – Alignment naming	E
Daylight_Lines.pdf – Cut/Fill lines based on conceptual drawings	E
Existing_Drainage_line.pdf – Existing drainage facilities	E
Existing_Right-of-Way.pdf – Existing right of way lines	E
ITS Elements.pdf – Existing ITS Elements	E
Overall Plan.pdf – Overall project plan strip map	E
Plan.pdf – Project strip map	E
Prop_Local-Right-of-Way.pdf – Proposed local right of way lines	E
Prop_Right-of-Way.pdf – Proposed project right of way lines	E
Proposed Drainage_lines.pdf – Conceptual drainage plans	E
Retaining Walls.pdf – Conceptual retaining walls	E
Typical Cross Section.pdf – Typical Cross Sections	E
Arrayo Toad.dgn – Arrayo Toad habitat	
SBKR Critical Habitat.dgn – Critical Habitat for San Bernardino Kangaroo Rat	

Title	Available
SBKR Habitat.dgn – Habitat for San Bernardino Kangaroo Rat	
General Bridge Plan	
General Bridge Plans.zip – Zipped folder containing the following folder and plans	E
Structure Call-outs.pdf – Bridge Name Call-outs	E
General Bridge Plans_Alt3A.pdf – General Bridge Plans	E
Devore_OH_Widen_1of2_updated-080411.pdf – Devore Overhead-Revised	E
Devore_OH_Widen_2of2_updated-080411.pdf – Devore Overhead-Revised	E
03_PR-3A-9_1.pdf – SB I-215 Connector over I15 Planning Study 1 of 2	E
04_PR-3A-9_2.pdf – SB I-215 Connector over I15 Planning Study 2 of 2	E
Railroad Submittals	
BNSF Conceptual Approval Package.zip – Package submitted to BNSF to obtain conceptual approval	E
UPRR Conceptual Approval Package.zip – Package submitted to UPRR to obtain conceptual approval	E
Railroad Agreements.zip – Current and sample railroad agreements	E
DTM Files	
InRoadsFiles.zip – Zipped folder containing various Inroads DTM files	E
SNBG0703 Alt 3A GAD Mainlines.ird – Roadway modeler files for mainline	
SNBG0703 Alt 3A GAD Ramps.ird – Roadway modeler files for ramps	
Devore.itl – template files	