



COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS
P.O. BOX 1810-1810 E. HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
(209) 468-3000
FAX # (209) 468-9324

Permit No: **PS-1701204**
Date Issued: 10/13/2017
Start Date: 10/16/2017
Exp. Date: 11/30/2017
Project No: PWP791706
Quad:

ENCROACHMENT PERMIT

To: SAN JOAQUIN RTD
421 WEBER AVE
STOCKTON, CA 95202

Encroachment Type:

bus stop pad and shelter	paving	sidewalk replacement	driveway
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Location:

Eighth Street at B Street Stockton

In compliance with your request of **05/01/2017**, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

Special Comments:

All traffic contro shall bel per MUTCD and approved traffic control drawing.

FORMS:

SS/WW		
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Est. Permit Fee: \$10,200.00

WHITE -Permittee
GOLDENROD -PWD Central File
YELLOW -Field Inspection
PINK -Permit Section

KRIS BALAJI, Director
Department of Public Works

By

Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

1. This permit is issued under and subject to all laws and ordinances of agencies governing the encroachment herein permitted. See the following references:

STREETS AND HIGHWAYS CODE

1. Division 1, Chapter 3
2. Division 2, Chapter 2, Section 942
3. Division 2, Chapter 4, Section 1126
4. Division 2, Chapter 5.5 and Chapter 6

SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.
3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.
4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.
5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.
6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.
7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.
8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.
9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.
10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.
11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.
12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.
13. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.

SPECIAL CONDITIONS FOR
ENCROACHMENT PERMIT

1. Maintain traffic controls for all roads. Traffic control delays shall not exceed 15 minutes. **FULL DAY LANE CLOSURES ARE PERMITTED FOR NO LONGER THAN 7 CALENDAR DAYS.** At all other times, two-way traffic shall be maintained during non-working hours with excavated areas backfilled or plated. During working hours, two-way traffic control shall be maintained with one lane open and appropriate flaggers.
2. Access to all properties shall be maintained at all times except when work is occurring at the access point. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.
3. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.
4. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.
5. School Buses shall be passed through the work zone with minimal delays.
6. Existing fences shall not be removed without written consent of the property owner. Such consent shall be submitted to the County prior to the removal. Fences removed shall be restored with in-kind or better materials. Restored fences shall not encroach into County right-of-way.
7. Final paving for trench repair or road resurfacing shall be per Caltrans' specifications. Due to temperature concerns, paving work shall not be permitted within the San Joaquin County right-of-way between November 1 and March 31 without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.
8. All destroyed or obliterated pavement markings must be replaced in kind by the permittee. Typical pavement markings include but not limited to lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.
9. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
10. All signs installed in the County right-of-way shall be mounted at least 6 feet high.
11. San Joaquin RTD shall be responsible for maintenance of the painted red curb, bus shelter, and associated facilities. All future maintenance of the bus shelter and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit. San Joaquin RTD shall submit a letter to San Joaquin County Public Works Department stating that RTD will be

responsible for future maintenance and all energy costs for camera(s) installed at the intersection of B Street and Eighth Street and video feed shall be available to agencies if requested.

12. Trenches and excavations shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
13. All trenches shall be completely backfilled or shored and plated at the end of each workday (except in lane closure areas as authorized in Note 1), and the roadway restored to two-way traffic. If plating is to be used, a trench shoring and plating plan suitable for traffic loadings shall be prepared by a registered civil engineer and submitted for prior approval by the County.
14. Contractor shall establish existing roadway and drainage grades within the construction area. Any repair to roadways and adjacent areas shall match existing grades. Any proposed grade changes shall receive prior approval from County.
15. County roads shall be kept clean from mud and debris at all times along the access points and work zone areas during entire project. All standard roadway striping and signage shall be clearly visible, maintained and restored throughout the construction zone during and after the project.
16. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, and as determined to be necessary by County inspectors, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
17. The contractor shall not conduct construction operations in rain or heavy fog conditions.

GENERAL PROVISIONS

GOVERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD RIGHTS-OF-WAY

PUBLIC CONVENIENCE AND SAFETY:

- A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permittee shall notify the known users of the respective thoroughfare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.
 - 1. Unless otherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.
 - 2. In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.
 - a. The County of San Joaquin Public Works Department
 - b. The County of San Joaquin Sheriff's Office
 - c. The local postal service
 - d. The local fire district
 - e. The local school district
 - f. The local residents involved
- B. Should hazardous conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.
- C. Lights, signs and barricades shall be furnished, erected and maintained by the Permittee for the adequate warning and convenience of the public, with particular attention to be taken in this regard after dark.
- D. Any excess dirt and/or debris which might be a hazard to either automobile or pedestrian traffic, uncontrollable by lights, signs and barricades, shall be removed from the jobsite daily.

STRUCTURES:

- A. Walls of structures shall be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the minimum structural requirements for concrete pipe placed under county road rights-of-way shall conform to the following American Association of State Highway and Transportation Officials (AASHTO) designations.
 - 1. For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M 170M.
 - 2. For concrete pipe thirty-six inches (36") inside diameter and larger, reinforced concrete pipe conforming to AASHTO Designation M 170M Class III.
 - 3. Plastic pipe conforming to AASHTO Designation M294.
- B. All concrete pipe joints with County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with Section 65-1.06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.
- C. Cast-in-place concrete pipe, vitrified clay pipe, spiral welded steel pipe, or corrugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.
- D. All structures to be buried within the County rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30") to the centerline of the roadways and twelve inches (12") at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampoles, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustments accordingly.
- E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.
- F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

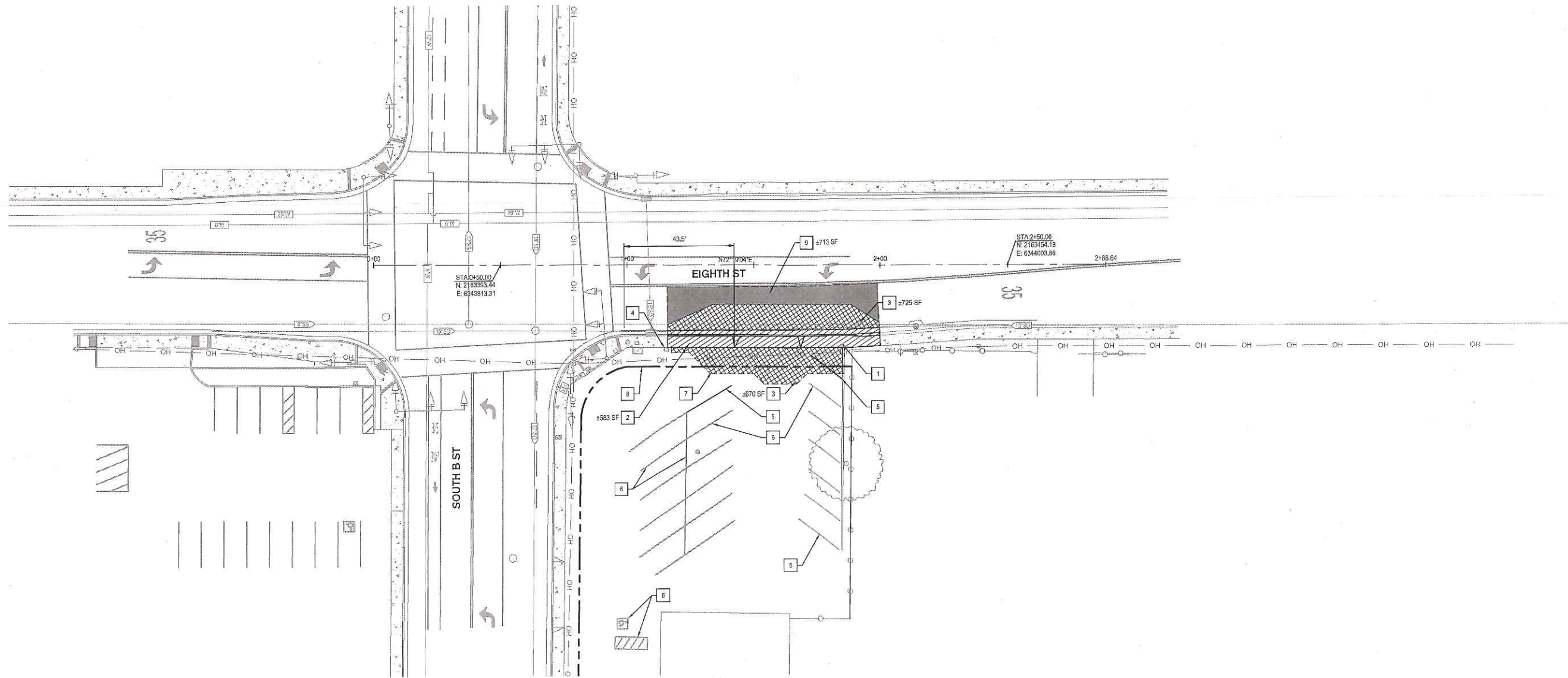
REPAIRS OF THE COUNTY RIGHT-OF-WAY:

- A. All excavations shall be backfilled and compacted immediately after work therein has been completed.
- B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.
- C. Unless otherwise permitted under the Special Provisions, backfill shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire fill within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench detail.
- D. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one foot where 90% compaction is required, and two feet where 80% compaction is required.
- E. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.
- F. Gravel backfill material shall be utilized only where specifically so stated on the face of the permit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall not be greater than 18" centers and to the full depth of the lift.
- G. All pavements, curbs, gutters, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.
- H. All surfacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.
 - 1. Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-half inch (1/2) maximum aggregate, coarse or medium gradation as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paving asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.
 - 2. Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.
- I. Before acceptance of repairs to the County road rights-of-way, all unsightly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).
 - 1. If necessary, County road traveled way and driveway pavements shall be washed with water to remove dirt and dust.
 - 2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.
- J. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

SPECIAL PROVISIONS

Winter Weather Utility Work

1. **SUPERVISION:** The utility company (**permittee**) shall furnish full-time supervision of all work to insure compliance with the permit provision.
2. **START OF WORK:** No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.
3. **CLEAN PAVEMENT:** Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.
4. **DAILY RESTORATION:** Private driveways and road intersections shall be restored daily.
5. **WEATHER-TIGHT CONDITIONS:** All trenches shall be filled and compacted, ditches and other drainage facilities regarded and opened, and the entire work area restored to weather-tight condition prior to any rain.



DEMOLITION LEGEND

- EXISTING CONCRETE TO REMAIN
- REMOVE AND DISPOSE OF EXISTING CONCRETE. REMOVAL SHALL BE PERFORMED AT THE NEAREST RELIEF JOINT, AT EACH END OF THE PROPOSED WORK. REMOVAL DEPTH SHALL ACCOMMODATE DEPTH OF NEW CONCRETE PAVING.
- REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT. REMOVAL DEPTH SHALL ACCOMMODATE DEPTH OF NEW IMPROVEMENTS.
- REMOVE AND DISPOSE OF EXISTING LANDSCAPING TO ACCOMMODATE DEPTH OF NEW SIDEWALK
- GRIND EXISTING ASPHALT PAVEMENT 1-INCH.

GENERAL DEMOLITION NOTES

1. ALL DISTURBED LANDSCAPING SHALL BE REPLACED IN KIND TO THE SATISFACTION OF THE CITY INSPECTOR. ALL EXISTING LANDSCAPE IMPROVEMENTS SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO DEMOLITION TO ENSURE ACCURATE REPLACEMENT.
2. REMOVE AND RE-INSTALL IRRIGATION AWAY FROM CONCRETE.
3. ALL EXCAVATIONS SPOILS, INCLUDING, BUT NOT LIMITED TO CONCRETE AND PAVEMENT EXCAVATION, SHALL BE EXPORTED AND DISPOSED OF BY THE CONTRACTOR.

DEMOLITION KEY NOTES

1. CONTRACTOR TO REMOVE BUS STOP SIGN POLE AND RETURN TO RTD.
2. SAW CUT, REMOVE AND DISPOSE OF EXISTING CURB, GUTTER, AND SIDEWALK.
3. SAW CUT, REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.
4. EXISTING PEDESTAL TO REMAIN. ADJUST TO FINISHED GRADE.
5. REMOVE EXISTING STRIPING BY GRINDING, OR OTHER APPROVED METHOD. FIELD VERIFY EXISTING STRIPING.
6. EXISTING STRIPING TO REMAIN
7. COORDINATE DEMOLITION WORK WITH PROPERTY OWNER.
8. COUNTY RIGHT-OF-WAY.
9. SAW CUT AND GRIND EXISTING ASPHALT PAVEMENT.

BENCHMARK (THIS SHEET ONLY)

CITY OF STOCKTON BENCHMARK NO. 175

BRASS DISK MARKING CO'S MONUMENT STAMPED "55-12" IN MONUMENT WELL IN TRAFFIC CONTROL ISLAND AT THE SOUTH SIDE OF CHARTER WAY AT MARIPOSA ROAD.

ELEVATION = 24.97
DATUM = NAVD 88 (2011, CITY OF STOCKTON, CALIFORNIA)

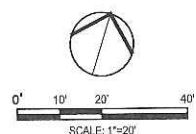
Project Manager



Project Engineer

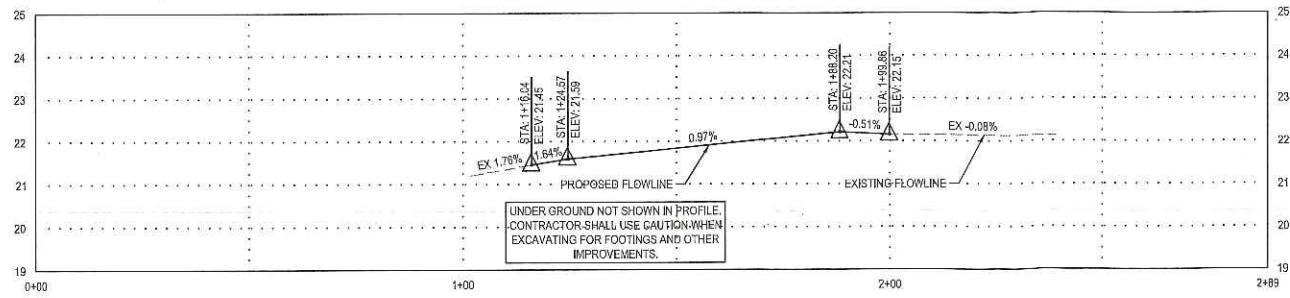


Know what's below.
Call before you dig.



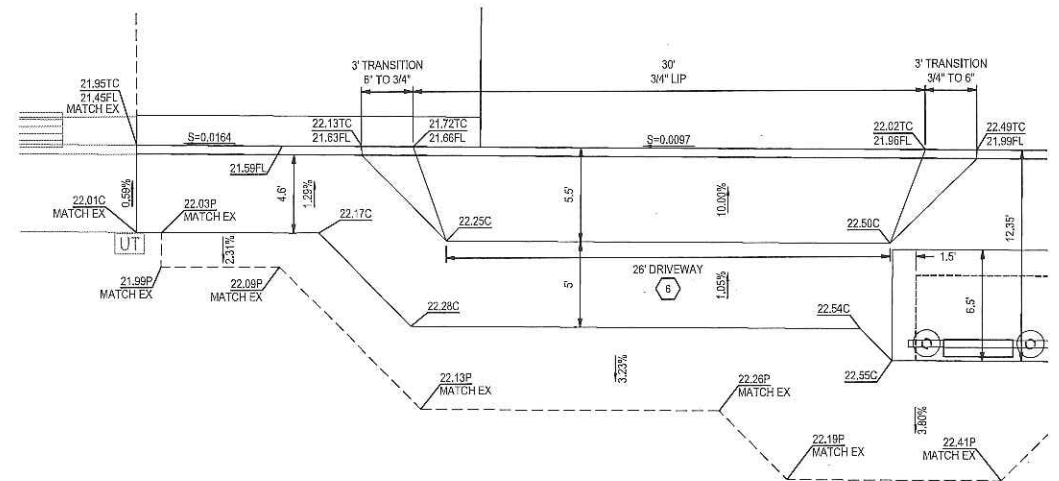
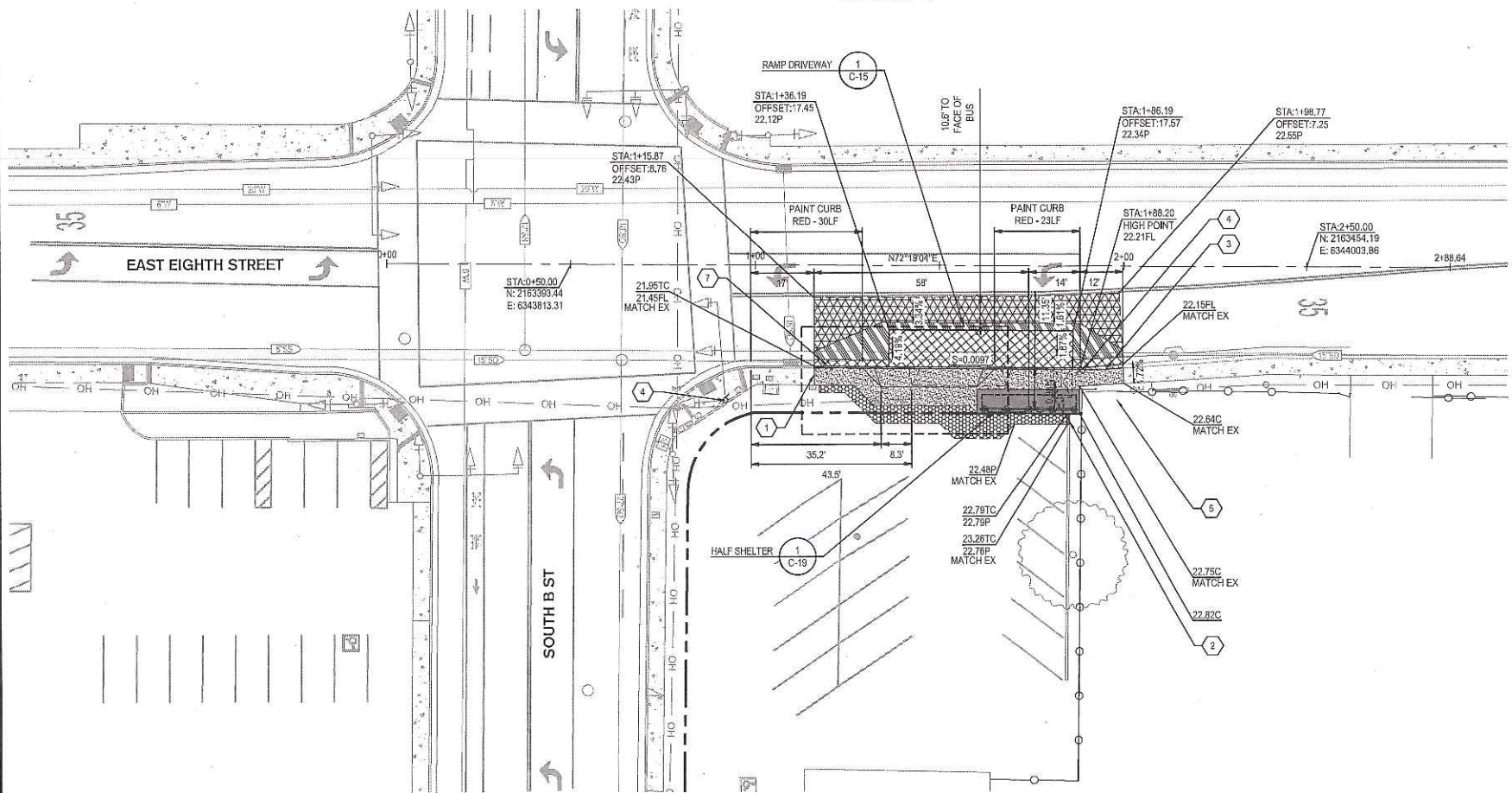
COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS	
APPROVED AS "ENCROACHMENT PERMIT PLAN SET" APPROVED FOR WORK WITHIN COUNTY RIGHT-OF-WAY ONLY	
ACCEPTED: _____	DATE _____
RCE NO.: _____	EXP. DATE: _____
ENCROACHMENT PERMIT NO.: _____	DATE ISSUED: _____ BY: _____

 3244 Maricopa Road, Suite 100 Stockton, California 95210 209-943-7091 www.sieglfried.com Fax: 209-943-8214					SAN JOAQUIN REGIONAL TRANSIT DISTRICT METRO EXPRESS BUS STOP IMPROVEMENTS IV TOPOGRAPHIC AND DEMOLITION PLAN EAST EIGHTH ST & SOUTH B ST DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
Revision No.	Description	Date	By	Apprvd. By	SCALE AS SHOWN	APPROVED BY: _____ DATE _____	SHEET NO. C-07
					DESIGNED BY BOK	FOR REFERENCE ONLY CITY ENGINEER STOCKTON, CALIFORNIA	OF 34 SHEETS 16116 PROJECT NO.
					DRAWN BY MLP/MWK		
					CHECKED BY PJS		
					RECORD DWGS.		



EIGHTH STREET & SOUTH B ST

HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=2'



1 RAMP DRIVEWAY DETAIL
1"=5'

PAVING LEGEND

- CONSTRUCT NEW CONCRETE CURB, GUTTER, AND/OR SIDEWALK PER SAN JOAQUIN COUNTY STANDARD DRAWING NO. R-7
- AC PATCH PER SHEET C-18, DETAIL 2
- CONSTRUCT BUS TURNOUT CONCRETE PAD AND REINFORCED CURB PER SHEET C-18, DETAIL 2
- CONSTRUCT BUS SHELTER FOUNDATION, FULL SHELTER: REFER TO SHEET C-18, DETAIL 1.
- ASPHALT PAVING (TH=6.0, R=5)
4.0" AC OVER 11.5" CLASS II AB OVER SUBGRADE
COMPACTED TO 95% RELATIVE COMPACTION
OPTION: 9" DEEP LIFT AC
- 1.0" AC OVERLAY

GENERAL IMPROVEMENT NOTES

1. INSTALL BUS SHELTER AND SITE FURNISHINGS PER NEW BUS STOP DETAILS, FULL SHELTER: REFER TO SHEET C-18, DETAIL 1.
2. ALL DISTURBED LANDSCAPING SHALL BE REPLACED IN KIND TO THE SATISFACTION OF THE COUNTY INSPECTOR. ALL EXISTING LANDSCAPE IMPROVEMENTS SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO DEMOLITION TO ENSURE ACCURATE REPLACEMENT.

IMPROVEMENT KEY NOTES

1. CONSTRUCT NEW CURB, GUTTER, AND/OR SIDEWALK PER SAN JOAQUIN COUNTY STANDARD DRAWING NO. R-7
2. 6-INCH, TYPE "B" VERTICAL CURB PER SAN JOAQUIN COUNTY STANDARD DRAWING NO. R-4. PROVIDE A 6-INCH RADIUS, ROUNDED END TERMINATION, WHERE CURB MEETS THE BACK OF SIDEWALK.
3. CONSTRUCT REINFORCED ROLLED CURB AND GUTTER, PER SHEET C-18, DETAIL 7, AND PROVIDE A 3-FOOT TRANSITION FROM THE ROLLED CURB TO THE VERTICAL CURB, SIMILAR TO SAN JOAQUIN COUNTY STANDARD DRAWING NO. R-8.
4. INSTALL R28C (CA) "NO STOPPING BUS ONLY" WITH ARROW SIGN, INCLUDING SIGN POLE, PER SAN JOAQUIN COUNTY STANDARD DRAWING NO. R-27. THE ARROW ON THE SIGN SHALL POINT TOWARDS THE NO PARKING AREA (I.E. THE NEW BUS SHELTER AND THE PAINTED RED CURB). WHERE APPLICABLE OR NOTED ON PLAN, INSTALL SIGN ON EXISTING STREET LIGHT.

5. EXISTING PRIVATE DRIVEWAY.
6. CONSTRUCT #4 REBAR AT 18-INCH ON CENTER, EACH WAY, FOR THE ENTIRE WIDTH OF THE DRIVEWAY.
7. CONSTRUCT A 5 FOOT SECTION OF REINFORCED CONCRETE CURB AND GUTTER, BOTH BEFORE AND AFTER THE BUS TURNOUT CONCRETE PAD, PER SHEET C-18, DETAIL 6.

BENCHMARK (THIS SHEET ONLY)

CITY OF STOCKTON BENCHMARK NO. 175

BRASS DISK MARKING COS MONUMENT STAMPED "55-12" IN MONUMENT WELL IN TRAFFIC CONTROL ISLAND AT THE SOUTH SIDE OF CHARTER WAY AT MARIPOSA ROAD.

ELEVATION = 24.97
DATUM = NAVD 88 (2011, CITY OF STOCKTON, CALIFORNIA)

Project Manager



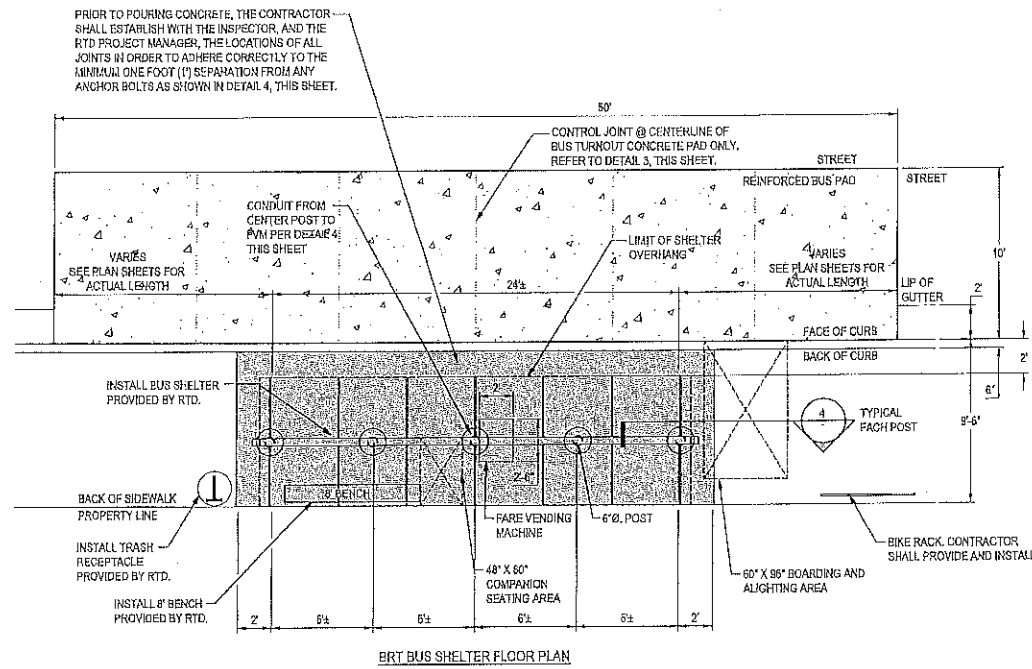
Project Engineer



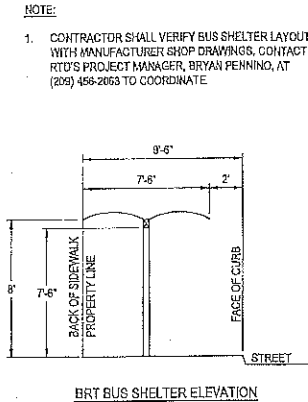
Know what's below.
Call before you dig.

Revision				
No.	Description	Date	By	Appvd. By

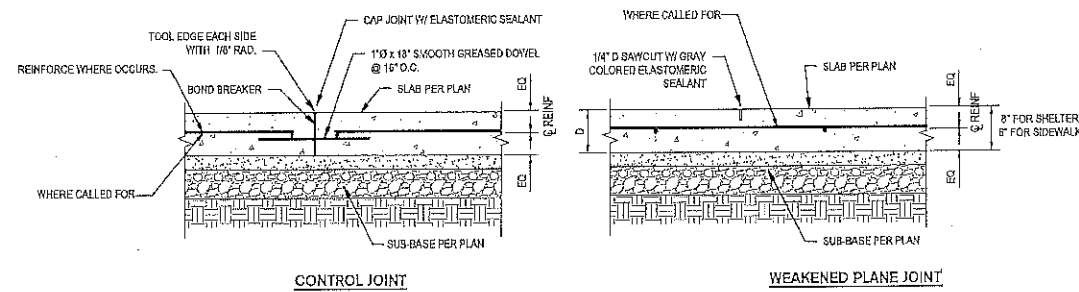
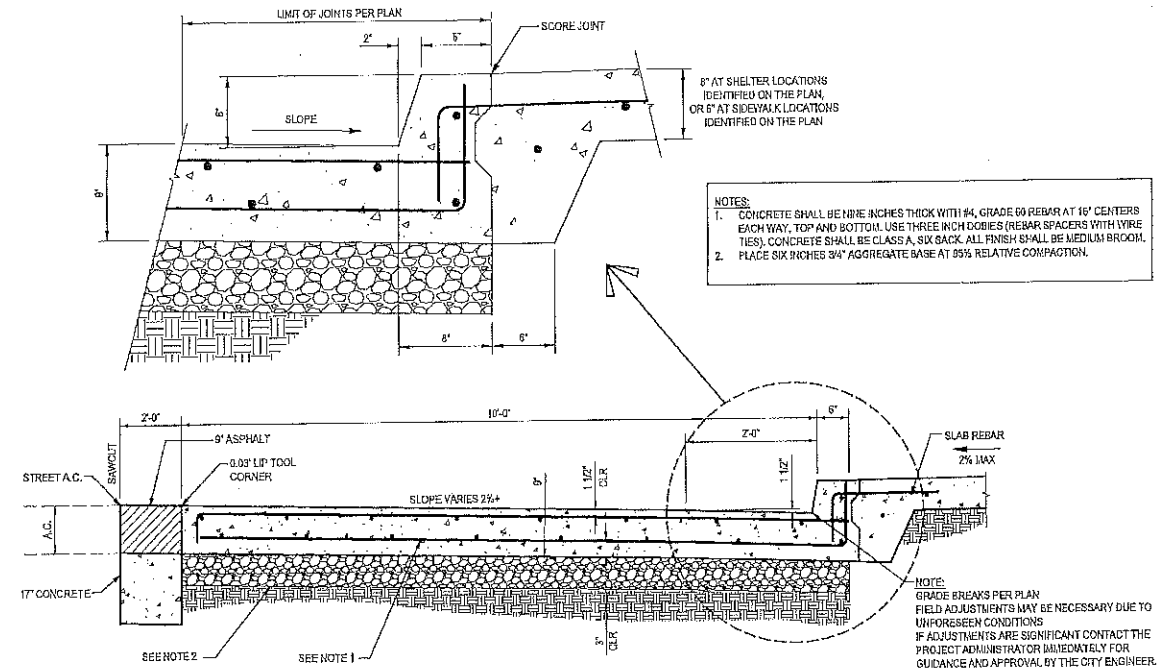
COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS APPROVED AS "ENCROACHMENT PERMIT PLAN SET" APPROVED FOR WORK WITHIN COUNTY RIGHT-OF-WAY ONLY ACCEPTED: _____ DATE _____ RCE NO.: _____ EXP. DATE: _____ ENCROACHMENT PERMIT NO.: _____ DATE ISSUED: _____ BY: _____	
SAN JOAQUIN REGIONAL TRANSIT DISTRICT METRO EXPRESS BUS STOP IMPROVEMENTS IV PLAN & PROFILE EIGHTH STREET & SOUTH B ST DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA	
SCALE: AS SHOWN DESIGNED BY: BDK DRAWN BY: MLJ/MWK CHECKED BY: PJS RECORD DWGS.	APPROVED BY: _____ DATE _____ FOR REFERENCE ONLY CITY ENGINEER STOCKTON, CALIFORNIA
SHEET NO. C-15 OF 34 SHEETS 16116 PROJECT NO.	



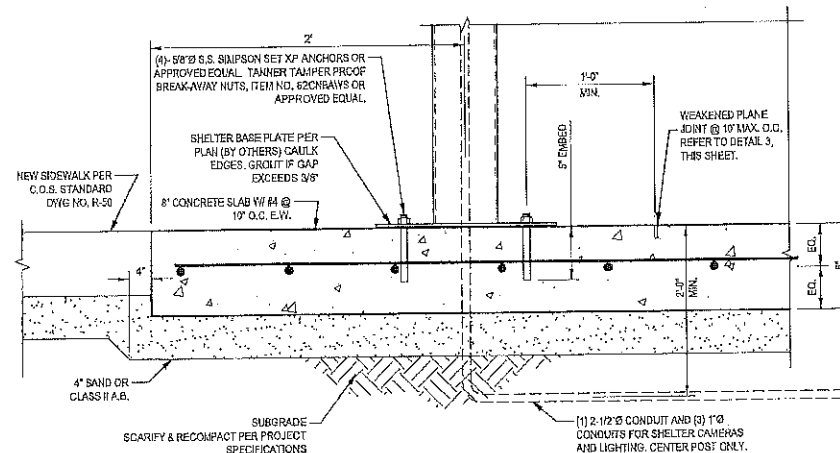
1 NEW BUS STOP DETAIL - FULL SHELTER
1" = 6'



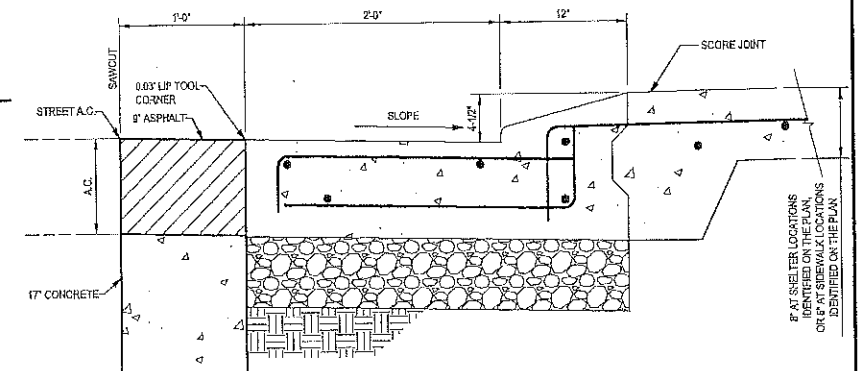
2 BUS TURNOUT CONCRETE PAD DETAIL
NOT TO SCALE



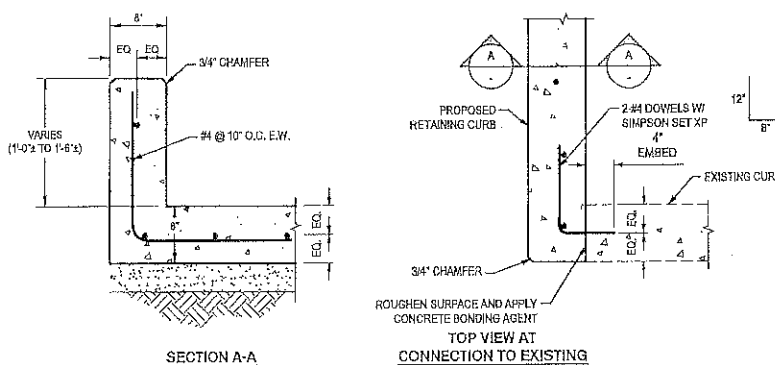
3 TYPICAL CONCRETE JOINTS
NOT TO SCALE



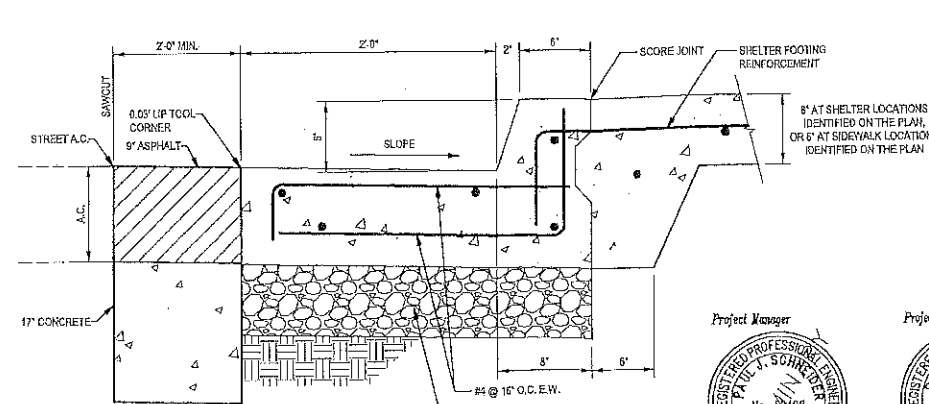
4 SHELTER FOOTING AT NEW SIDEWALK
1 1/2" = 1'



7 REINFORCED CONCRETE ROLLED CURB AND GUTTER
NOT TO SCALE



5 RETAINING CURB DETAIL
1 1/2" = 1'



6 REINFORCED CONCRETE CURB AND GUTTER
NOT TO SCALE



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					SAN JOAQUIN REGIONAL TRANSIT DISTRICT METRO EXPRESS BUS STOP IMPROVEMENTS IV				
224 Broadway Road, Suite 100, Stockton, California 95214 209-949-2051 www.siegfriedeng.com Fax 209-942-0214					DETAILS I				
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA					SHEET NO. C-18 OF 34 SHEETS 16116 PROJECT NO.				
Revision No.	Description	Date	By	Appr. By	SCALE AS SHOWN DESIGNED BY BOK DRAWN BY JLP/AMK CHECKED BY PJS RECORD DWGS.				
					APPROVED BY: DATE CITY ENGINEER STOCKTON, CALIFORNIA				

ELECTRICAL SPECIFICATIONS

A. GENERAL NOTES:

- ELECTRICAL INSTALLATION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATION, INCLUDING THE FOLLOWING:
TITLE 24, CCR, PART 2, 2016 CBC
TITLE 24, CCR, PART 3, 2016 CEC
ALL APPLICABLE LOCAL CODES.
- A. CONTRACTOR TO COORDINATE WITH RTD TO VERIFY ELECTRIC METERED POWER SERVICE WITH PG&E PRIOR TO BIDDING. SERVICES SHALL CONFORM TO PG&E REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR SERVICE INSTALLATION PER PG&E REQUIREMENTS. OWNER SHALL PAY ALL PG&E CUSTOMER CHARGED SERVICE COSTS.
B. ALL SERVICE CONDUIT ROUTES SHOWN ON THE PLANS ARE ASSUMED ROUTES NOT YET CONFIRMED BY PG&E. DETERMINE EXACT CONDUIT ROUTE WITH PG&E PRIOR TO INSTALLATION.
C. RE-VERIFY EXACT LOCATION OF NEW POWER DISTRIBUTION SERVICE PEDESTAL AT EACH SITE WITH RTD AND PG&E. SUCH PEDESTAL SHALL BE LOCATED WITHIN THE RIGHT-OF-WAY OF CITY OF STOCKTON.
- THE CONTRACTOR IS REMINDED THIS PROJECT IS A ADDITION TO AN EXISTING SITE. EXISTING CIRCUITING HAS NOT BEEN ENTIRELY VERIFIED AND THESE DRAWINGS MUST BE ACCEPTED WITH THIS UNDERSTANDING. CONTRACTOR SHALL FURNISH LABOR AND MATERIALS TO ACHIEVE INDICATED RESULTS EVEN THOUGH ALL DETAILS ARE NOT SHOWN.
- A. ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL LICENSE, ETC. REQUIRED TO CARRY ON AND COMPLETE THE WORK.
B. RTD SHALL PROCURE AND PAY FOR PERMITS FOR THIS JOB.
- PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR ANY REASONABLE INCIDENTAL TO PROPER EXECUTION AND COMPLETION OF ALL "ELECTRICAL WORK" WHETHER SPECIFICALLY MENTIONED OR NOT; ALL AS INDICATED, SPECIFIED HEREIN, AND/OR IMPLIED THEREBY TO CARRY OUT THE APPARENT INTENT THEREOF.
- ALL ELECTRICAL MATERIALS SHALL BE NEW AND LISTED WITH THE UNDERWRITERS' LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
- ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND INSTALLING HIS WORK TO AVOID INTERFERENCE WITH OTHER TRADES.
- FOR ADDITIONAL NOTES AND LEGEND, SEE SHEET C-02.
- B STREET AND E 8TH STREET IS A COUNTY OF SAN JOAQUIN INTERSECTION MAINTAINED BY THE CITY OF STOCKTON. B STREET AND E 8TH STREET SHALL CONFORM WITH THE LATEST SAN JOAQUIN, CALTRANS, AND CITY OF STOCKTON STANDARDS.

B. CONDUIT SYSTEM:

- PROVIDE CONDUIT SYSTEM AS SHOWN ON PLANS.
- CONDUITS FOR PG&E SERVICE CONDUCTORS SHALL BE AS REQUIRED BY PG&E.
- PROVIDE CONDUIT STUB FROM BUS SHELTER TO EXISTING CITY FIBER OPTIC BOX FOR FUTURE FIBER OPTIC CABLE. CONTRACTOR TO COORDINATE WITH RTD.
- MINIMUM ACCEPTABLE CONDUITS ARE:
A. GALVANIZED RIGID STEEL - FOR USE ON EXTERIOR SURFACES ABOVE GRADE.
B. PVC CONDUIT APPROVED FOR USE UNDERGROUND ONLY. SHALL BE SCHEDULE 80 MINIMUM. STUBUPS THROUGH CONCRETE PAD OR FINISHED GRADE SHALL BE WITH RIGID GALVANIZED STEEL CONDUIT WRAPPED WITH BLACK PVC TAPE UP TO 6" ABOVE GRADE.
C. NO ALUMINUM CONDUITS, IMC CONDUITS OR ALUMINUM FITTINGS ARE APPROVED FOR USE ON THIS PROJECT.
D. ALL CONDUIT FITTINGS SHALL BE MALLEABLE IRON/STEEL.
- ALL BRANCH CIRCUIT WIRING/CONDUITS FROM POWER DISTRIBUTION SERVICE PEDESTAL TO THE BUS SHELTER/FARE VENDING MACHINE SHALL BE RUN PHYSICALLY WITHIN THE RIGHT-OF-WAY OF CITY OF STOCKTON.
- ALL BRANCH CIRCUIT WIRING/CONDUITS FROM POWER DISTRIBUTION SERVICE PEDESTAL TO THE BUS SHELTER/FARE VENDING MACHINE SHALL BE RUN PHYSICALLY WITHIN THE RIGHT-OF-WAY OF CITY OF STOCKTON.

C. UNDERGROUND WIRING: DEPTH OF BURIAL FOR CONDUIT:

- WORK SHOWN ON THE DRAWINGS TO BE INSTALLED UNDERGROUND SHALL BE INSTALLED AS NOTED BELOW. BACKFILL IN 6" THICK, PROPERLY MOISTENED LAYERS, SOLIDLY PACKED AND IRON TAMPED TO A DENSITY NOT LESS THAN THAT OF ADJACENT, UNDISTURBED EARTH. RESTORE SURFACES, ROADWAYS, WALKS, CURBS, WALLS, EXISTING UNDERGROUND INSTALLATIONS TO ORIGINAL CONDITION IN AN ACCEPTABLE MANNER.
- IN PARKING AREAS AND MINOR ROADWAYS - 24" BELOW SUBGRADE PER C.E.C. 300.5.
- IN PLANTER AREAS - 24" BELOW GRADE FOR RIGID PVC CONDUIT.
- UNDERGROUND CONDUIT SHALL BE MINIMUM PVC SCHEDULE 80, UNLESS

OTHERWISE NOTED.

- WORK SHOWN IN THE DRAWINGS TO BE INSTALLED UNDERGROUND SHALL BE INSTALLED AT LEAST 24" BELOW GRADE UNLESS OTHERWISE NOTED. BACKFILL IN 6" THICK, PROPERLY MOISTENED LAYERS, SOLIDLY PACKED AND IRON TAMPED TO A DENSITY NOT LESS THAN THAT OF ADJACENT, UNDISTURBED EARTH. RESTORE SURFACES, ROADWAYS, WALKS, CURBS, WALLS AND EXISTING UNDERGROUND INSTALLATIONS TO ORIGINAL CONDITION IN ACCEPTABLE MANNER.
- EXCAVATE TRENCHES TO UNIFORM WIDTH, SUFFICIENTLY WIDE TO PROVIDE MINIMUM 6" TO 9" CLEARANCES ON BOTH SIDES OF RACEWAYS AND EQUIPMENT.
- LIMIT LENGTH OF OPEN TRENCH TO THAT IN WHICH INSTALLATIONS CAN BE MADE AND THE TRENCH BACKFILLED THE SAME DAY.
- SLOPE CONDUITS TO DRAIN TOWARDS PULLBOXES AND AWAY FROM THE BUILDING AND EQUIPMENT ENTRANCES
- CLEAN INSIDE OF CONDUITS FULL LENGTH. USE ROUND BRISTLE BRUSH WITH A DIAMETER 1/2" GREATER THAN THE INTERNAL DIAMETER OF THE CONDUIT.

D. DIRECTIONAL DRILLING/BORING:

- CONTRACTOR SHALL USE DIRECTIONAL DRILLING/BORING TO INSTALL UNDERGROUND CONDUITS INSTEAD OF TRENCHING. LIMITED TRENCHING SHALL BE PERMITTED WITH PRIOR APPROVAL OF RTD IN SPECIFIC LOCATIONS ONLY.
- SUCH DIRECTIONAL DRILLING SHALL BE CARRIED OUT BY A CONTRACTOR REGULARLY ENGAGED IN THE BUSINESS OF DIRECTIONAL DRILLING AS PART OF HIS BUSINESS. HE/SHE SHALL HAVE SKILLED MANPOWER AND EQUIPMENT TO PERFORM THIS WORK.
- ALL PROCEDURES AND METHODS USED SHALL BE INDUSTRY STANDARD GOOD PRACTICE INCLUDING DRILLING PILOT HOLES, AS-BUILT SURVEYS, PRE-REAMING, DRILLING FLUIDS, WATER, FLUID DISPOSAL ETC.
- LAYOUT AND UNDERGROUND CONDUIT RUNS SHOWN ON PLANS ARE SCHEMATIC ONLY. ACTUAL PATH OF SUCH CONDUITS SHALL BE DISCUSSED AND AGREED UPON WITH RTD FOR EACH INTERSECTION PRIOR TO COMMENCING WORK.
- THE ENTIRE PROPOSED PROCEDURE AND PROCESS SHALL BE SUBMITTED TO RTD FOR APPROVAL PRIOR TO PERFORMING ANY WORK.
- CONTRACT WITH LOCATING COMPANY TO LOCATE EXISTING UTILITIES. REVIEW ALL AVAILABLE "AS-BUILT" PLANS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FIX ANY DAMAGED UTILITIES SHOWN ON THE AS-BUILT DRAWINGS OR LOCATED BY THE CONTRACTED COMPANY.
- ALL CONDUITS SHALL BE TYPE HDPE OR PVC SHC-80, UNLESS OTHERWISE NOTED.
- AFTER INSTALLATION OF THE CONDUITS IS COMPLETE DRILLING PITS AND RECEIVING PITS SHALL BE BACKFILLED AS SPECIFIED IN PROJECT SPECIFICATIONS.
- SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

E. SAMPLER LOOPS:

- SAMPLER LOOPS, CONDUITS, AND DETECTOR HANDHOLES WITHIN THE LIMITS OF THE BUS BAY CONSTRUCTION SHALL BE RELOCATED OUTSIDE THE LIMITS. RELOCATED SAMPLER LOOPS SHALL BE IN THE CENTER OF THE TRAVEL LANES AT LEAST 5- FEET BEFORE THE BUS BAY CONSTRUCTION AREA, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING SAMPLER LOOPS AND COORDINATE WITH THE ENGINEER TO VERIFY THE LOCATION OF THE PROPOSED EQUIPMENT.

F. SUPPORTS:

- FURNISH ALL NECESSARY FOUNDATIONS, SUPPORTS, BACKING, ETC., FOR ALL ELECTRICAL ENCLOSURES, CONDUITS AND EQUIPMENT.

G. NAMEPLATES & IDENTIFICATION:

- INSTALL ENGRAVED NAMEPLATE FOR SERVICE SWITCHBOARD. NAMEPLATE SHALL BE SECURELY FASTENED TO THE EQUIPMENT WITH #4 PHILLIPS ROUND HEAD CADMIUM PLATED SELF-TAPPING SCREWS, BRASS BOLT.

H. SERVICE PEDESTAL:

- SWITCHBOARD FOR THE FARE VENDING MACHINE, BUS SHELTER AND RECEPTACLE SHALL BE NEMA 3R, FREE STANDING, CUSTOM BUILT AS MANUFACTURED BY TESCO CONTROLS OR APPROVED EQUAL WITH METER, MAIN DISCONNECT, DISTRIBUTION SECTION, CONTROLS, ETC. FINISH TO BE STAINLESS STEEL.
- SWITCHBOARD SHALL BE WEATHERPROOF OR NEMA 1, AS SPECIFIED ON THE PLANS, FREE STANDING WITH DOUBLE LOCK PROVISIONS FOR LOCKING BY THE UTILITY COMPANY AND RTD.
- SWITCHBOARD SHALL HAVE A MAIN DISCONNECT WITH PROPER FACILITIES FOR METERING EQUIPMENT AND SHALL MEET ALL THE REQUIREMENTS OF THE UTILITY COMPANY. THE SERVING UTILITY COMPANY IS PACIFIC GAS & ELECTRIC COMPANY.
- ALL BUSSING SHALL BE COPPER INCLUDING GROUND BUS.
- DISTRIBUTION SECTION SHALL BE OF CIRCUIT BREAKER TYPE UTILIZING THERMAL MAGNETIC TYPE CIRCUIT BREAKERS WITH FRAME SIZES AS SHOWN ON SINGLE LINE DIAGRAM. PROVIDE FULL LENGTH BUS IN EACH SECTION.
- ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED WITH BAKELITE ENGRAVED NAMEPLATES OR APPROVED EQUAL.

- SPACES FOR FUTURE CIRCUIT BREAKERS SHALL INCLUDE ALL HARDWARE, BUS TAPS, ETC. NECESSARY TO PERMIT THE FIELD INSTALLATION OF BREAKER UNITS. THE HARDWARE SHALL BE EQUIPPED WITH INSULATING TUBE OR BOOT.

I. GROUNDING:

- GROUND AND BOND ALL EQUIPMENT AS REQUIRED BY GOVERNING CODES AND SPECIFICALLY INCLUDING SWITCHBOARD, PANELBOARDS, MOTOR CASES, ETC.

- PROVIDE GROUND WIRES IN ALL FEEDERS AND BRANCH CIRCUITS.

- ALL GROUND WIRES SHALL BE INSULATED GROUND WIRES.

J. FLASH PROTECTION:

- PROVIDE PERMANENT MARKING ON SERVICE SWITCHBOARD FOR POTENTIAL ELECTRIC ARC FLASH HAZARDS PER C.E.C. 110.16.

- SEE SHEETS E-02 & E-03 FOR DETAIL.

K. WORKING CLEARANCES FOR SWITCHBOARDS:

- COORDINATE WITH OTHER TRADES TO ENSURE CODE REQUIRED WORKING CLEARANCES, ACCESS, ETC. FOR PANELS AND SWITCHBOARDS PER C.E.C. 110.26 AND ARTICLE 408.

L. SUBMITTALS:

- PROVIDE THE FOLLOWING SUBMITTALS FOR REVIEW AND APPROVAL.

- POWER DISTRIBUTION SERVICE PEDESTALS.
- PULL BOXES.
- BASIC ELECTRICAL MATERIALS.

M. OPERATIONS AND MAINTENANCE MANUALS:

- PROVIDE AS-BUILT DRAWINGS.
A. UPON COMPLETION OF WORK COVERED BY THIS CONTRACT, PROVIDE "AS-BUILT" PLANS, UPON WHICH SHALL BE SHOWN ALL CHANGES OF FEEDERS, FEEDER ROUTINGS, PANELS, CIRCUITS, LIGHT FIXTURES, ETC., FOR THIS PROJECT AND INSTALLED UNDER THIS CONTRACT, WHICH ARE NOT IN ACCORD WITH THE ISSUED CONTRACT DRAWINGS FOR THE WORK.
B. ALL SYMBOLS AND DESIGNATIONS USED IN PREPARING "AS-BUILT" DRAWINGS SHALL MATCH THOSE USED IN CONTRACT DRAWINGS.
C. CONTRACTOR SHALL STAMP EACH DRAWING SHEET WITH A STAMP WHICH STATES "AS-BUILT PLANS", "DATE" AND "NAME/ADDRESS/PHONE NUMBER" OF THE RESPONSIBLE CONTRACTOR.
- PROVIDE OPERATION AND MAINTENANCE MANUALS FOR ELECTRICAL EQUIPMENT/SYSTEM PROVIDED UNDER THIS PROJECT. POWER.
- SCAN BOTH "AS-BUILT" PLANS AND O&M MANUAL ON TO A CD AND PROVIDE (3) COPIES OF THE CD TO RTD PRIOR TO RELEASE OF FINAL PAYMENT.

N. TESTING:

- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE FREE FROM SHORT CIRCUITS AND IMPROPER GROUNDS. TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE ANY FIXTURES OR EQUIPMENT ARE CONNECTED AND WHERE SUCH TESTS INDICATE FAULTY INSULATION OR OTHER DEFECTS, THEY SHALL BE LOCATED, REPAIRED AND RETESTED AT THE CONTRACTOR'S EXPENSE.
- DEMONSTRATE TO THE RTD, ENGINEER AND CITY INSPECTOR, THAT THE ENTIRE INSTALLATION IS COMPLETE, IN PROPER OPERATING CONDITION AND THAT THE CONTRACT HAS BEEN PROPERLY AND FULLY EXECUTED. PROVIDE ALL INSTRUMENTS TO MAKE SUCH TESTS.

O. CERTIFICATE OF COMPLETION:

- ACCEPTANCE OF THE CONTRACT FOR THIS WORK INCLUDES THIS GUARANTEE: THE CONTRACTOR GUARANTEES THAT HE HAS PERFORMED THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR AGREES TO REPLACE OR REPAIR, AS NEW ANY DEFECTIVE WORK, MATERIALS, OR PART WHICH MAY APPEAR WITHIN ONE YEAR (1) OF FINAL ACCEPTANCE, IF, IN THE OPINION OF THE RTD, ENGINEER, OR CITY INSPECTOR, THE DEFECT IS DUE TO WORKMANSHIP OR MATERIAL.

P. WARRANTIES, GUARANTEES, CERTIFICATES, ETC.:

- WARRANTIES, GUARANTEES, CERTIFICATES, ETC. THAT ARE FURNISHED AND AVAILABLE FOR EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED UNDER THIS SECTION SHALL BE PROPERLY FILLED OUT AS OF DATE OF ACCEPTANCE OF THE WORK BY THE RTD AND SHALL BE DELIVERED BY THE CONTRACTOR.

Q. ACCEPTANCE BY GOVERNING AUTHORITIES:

- UPON THE COMPLETION OF THE ELECTRICAL WORK, AND AS CONDITION OF ITS ACCEPTANCE, THIS CONTRACTOR SHALL OBTAIN FINAL INSPECTIONS AND ACCEPTANCE FROM LOCAL BUILDING INSPECTION AGENCIES, UTILITY COMPANIES AND/OR OTHER GOVERNING AUTHORITIES. DELIVERED TO THE OWNER AND THE ENGINEER VERIFICATION OF SUCH ACCEPTANCE.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
1Ø	SINGLE PHASE
3Ø	THREE PHASE
&	AND
A.F.G.	ABOVE FINISHED GRADE
A.F.F.	ABOVE FINISHED FLOOR
A.G.L.	ABOVE GRADE LEVEL
A.H.J.	AUTHORITY HAVING JURISDICTION
A.I.C.	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
A, AMP	AMPERE
C	CONDUIT
C/B	CIRCUIT BREAKER
CKT.	CIRCUIT
CO	CONDUIT ONLY
COS	CITY OF STOCKTON
CU	COPPER
DIST.	DISTRIBUTION
(e),(E)	EXISTING
E.C.	ELECTRICAL CONTRACTOR
ELEC.	ELECTRICAL
FVM	FARE VENDING MACHINE
G.C.	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GRD.	GROUND
HDPE	HIGH-DENSITY POLYETHYLENE
HV	HIGH VOLTAGE
KW	KILOWATT
KVA	KILOVOLT AMPERE
MIN.	MINIMUM
MAX.	MAXIMUM
(n),(N)	NEW
NO.#	NUMBER
O/H	OVERHEAD
PB	PULLBOX
PG&E	PACIFIC GAS & ELECTRIC
PNL	PANEL
PVC	POLYVINYL CHLORIDE
(R)	REMOVE REMOVE,
(RR)	RELOCATE AND RECONNECT AT LOCATION SHOWN
(RL)	REMOVE AND REPLACE WITH NEW DEVICE SPECIFIED
RTD	REGIONAL TRANSIT DISTRICT
SJRTD	SAN JOAQUIN REGIONAL TRANSIT DISTRICT
SWBD	SWITCHBOARD
TBD	TO BE DETERMINED
UG	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTAGE
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER

LEGEND

SYMBOL	DESCRIPTION
-----	ELECTRICAL CONDUIT
⌋	SERVICE PEDESTAL (EXISTING)
⌋	SERVICE PEDESTAL (NEW)
⌋	EXISTING TRAFFIC SIGNAL CABINET
□	PULLBOX (EXISTING)
□	PULLBOX (NEW)
⌋	TYPE D LOOP DETECTOR
⌋	DETECTOR HANDHOLE
□	TYPE A LOOP DETECTOR
CB	INSTALL CONDUIT INTO EXISTING PULL BOX



Stantec Consulting Inc. Tel. (925)941-1400
1340 Treat Blvd. Suite 300 Fax (925)941-1401
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METRO EXPRESS BUS STOP IMPROVEMENTS IV

GENERAL NOTES

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

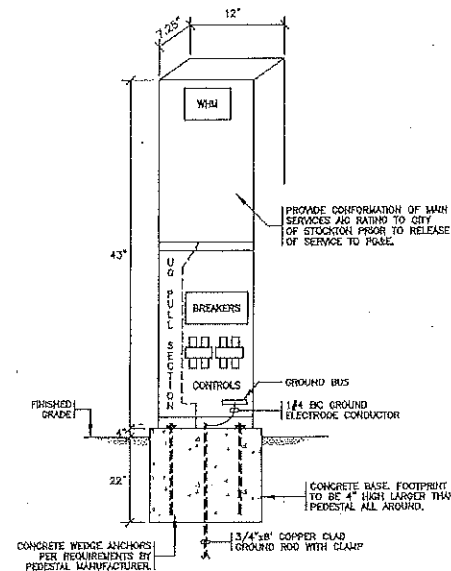
Revision No.	Description	Date	By	Apprvd. By

SCALE	AS SHOWN	APPROVED BY:	SHEET NO.
DESIGNED BY	ABH	DATE	E-01
DRAWN BY	MMT		OF 33 SHEETS
CHECKED BY	JB		16116
RECORD DWGS.		CITY ENGINEER	PROJECT NO.
		STOCKTON, CALIFORNIA	



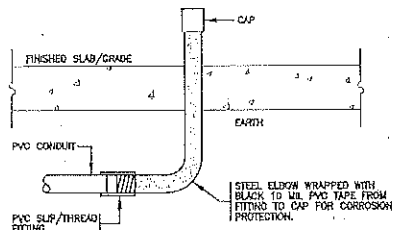
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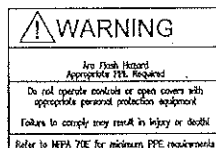


POWER DISTRIBUTION SERVICE PEDESTAL - NEMA 3R

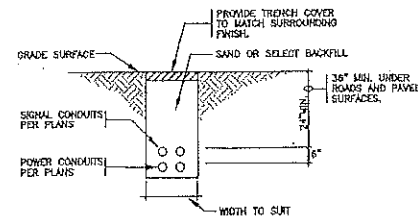
- NTS
- NOTES: POWER DISTRIBUTION SERVICE PEDESTAL
1. TYPICAL FOR ALL SERVICE PEDESTALS.
 2. MINIMUM DIMENSIONS INDICATED. PEDESTAL ENCLOSURE TO BE STAINLESS STEEL, SIZED PER PG&E REQUIREMENTS AND TO INCORPORATE ALL ITEMS PER ONE LINE DIAGRAM.
 3. PEDESTAL AS MANUFACTURED BY TESCO CONTROLS, INC. OR PRE-APPROVAL EQUAL WITH A WEATHERED SECTION, CIRCUIT BREAKER DISTRIBUTION SECTION, RECEPTACLES, TERMINAL BLOCKS, SEPARATION BARRIERS, ETC. MADE OF 12 GA. STEEL. ALL FASTENERS AND HINGES TO BE STAINLESS STEEL. ANY SUBSTITUTE SHALL BE PRE-APPROVED BY RTD PRIOR TO BID. POST-BID SUBSTITUTE WILL NOT BE ALLOWED. ANY SUBSTITUTES NEED TO BE APPROVED BY RTD AS REQUIRED BY "SOLUTIONS DOCUMENTS".
 4. COMPLETE PEDESTAL SHALL COMPLY WITH PG&E REGULATIONS AND REQUIREMENTS AND SHALL BE APPROVED BY THE SAME PRIOR TO FABRICATION.
 5. FINISH COLOR: STAINLESS STEEL.
 6. -UL LISTED.



TERMINATING NON-METALLIC PVC CONDUITS

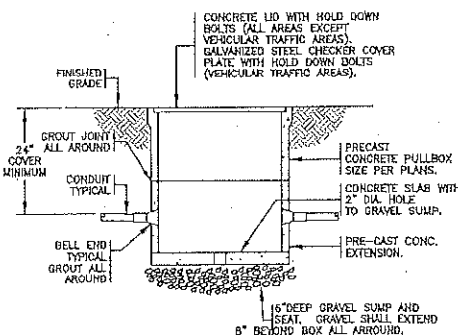


ELECTRIC ARC FLASH HAZARDS



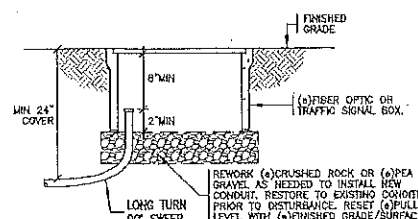
TRENCH DETAIL (TYP.)

- NTS
- NOTE: 1. FOR LOCATION WHERE TRENCHING IS PERMITTED
2. PROVIDE MIN 12\"/>

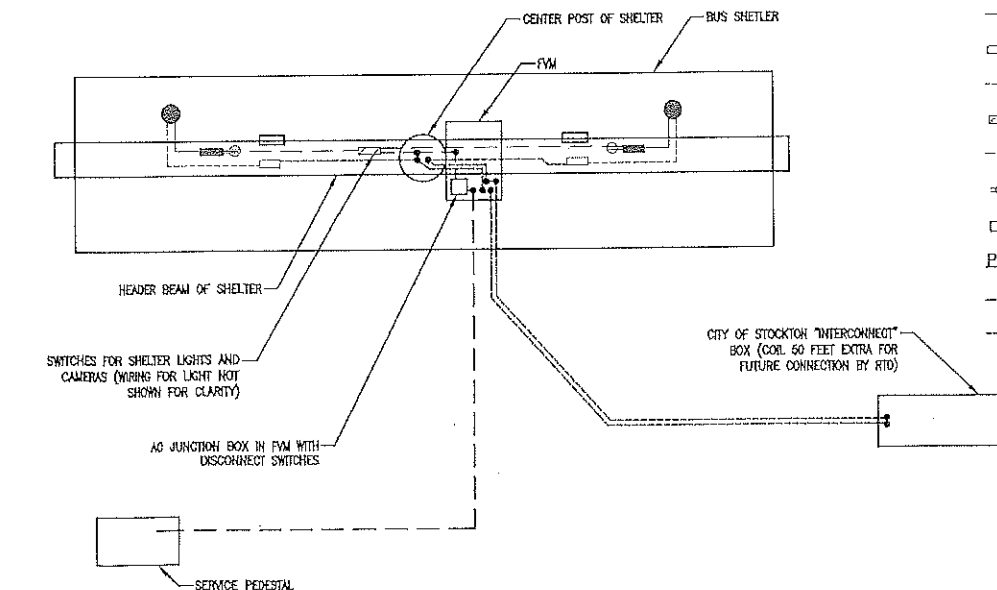


PRE-CAST GRADE-LEVEL PULLBOX

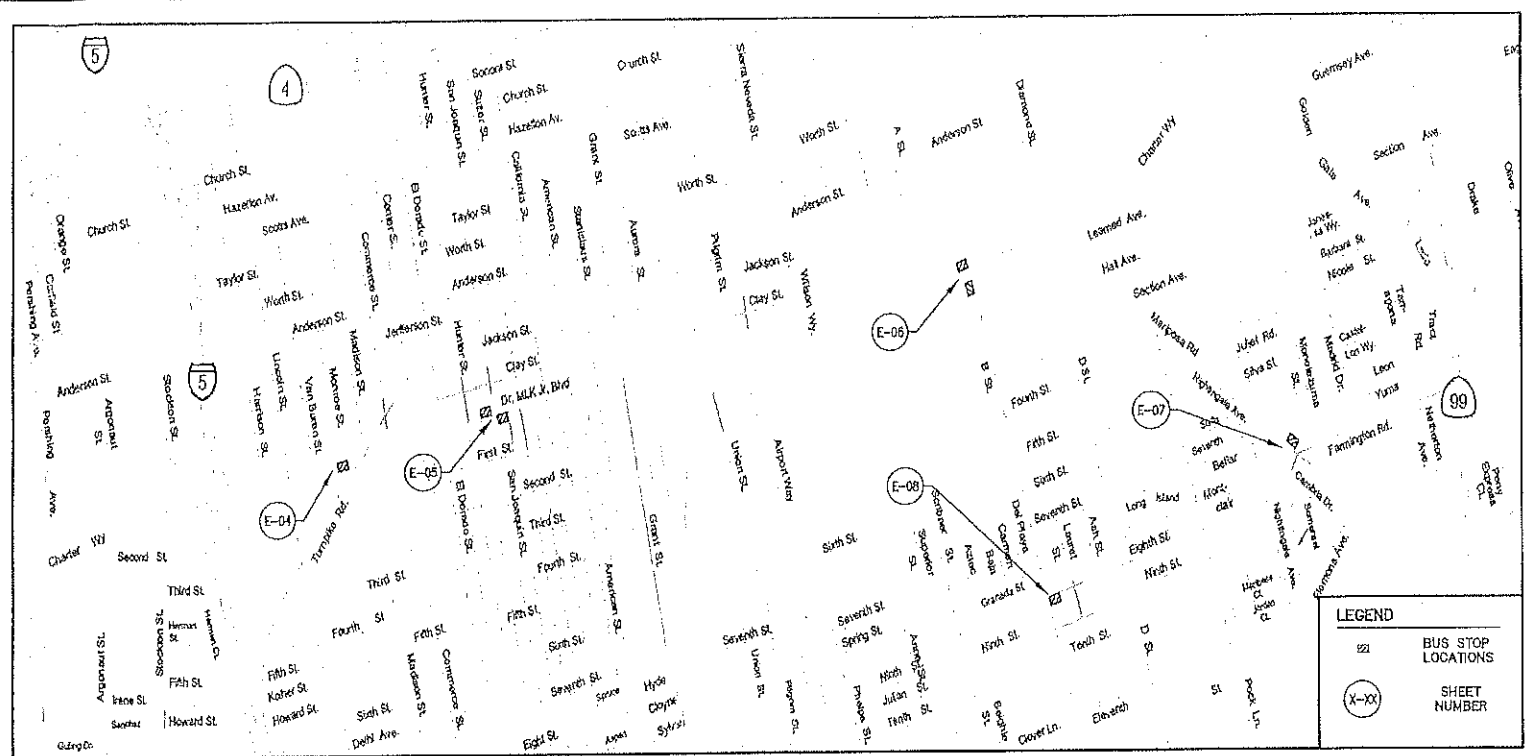
- NTS
- NOTES:
1. ENSURE PULLBOX IS FLUSH WITH FINISHED CONCRETE OR BLACKTOP AND IS 2\"/>
 2. ALL POWER PULLBOXES WITH CONTRACTOR SUPPLIED CABLES THROUGH IT SHALL BE CHRISTY #19 U.O.N. LID TO BE INSCRIBED "POWER".
 3. ALL COMMUNICATIONS PULLBOXES SHALL BE CHRISTY #19 U.O.N. LID TO BE INSCRIBED "SIGNAL". ALL COMMUNICATIONS CONDUITS THAT ENTER AND EXIT PULLBOX SHALL DO SO ON THE SHORT WALLS. DO NOT USE PULLBOX AS DIRECTION CHANGE.
 4. ALL PULLBOXES WITH PG&E SUPPLIED/INSTALLED CABLES SHALL COMPLY WITH PG&E REQUIREMENTS. VERIFY WITH PG&E.



NEW CONDUIT ENTRY INTO PULLBOX



SHELTER WIRING DIAGRAM



VICINITY MAP

LEGEND (DETAIL F ONLY):

PROVIDED BY SHELTER MANUFACTURE (ASSEMBLED/INSTALLED BY CONTRACTOR)

- CAMERA - SONY SNC-VM632R
 - IEEE802.3at PoE STANDARD COMPLIANT INJECTOR
 - CAT5E CABLE
 - BNC TERMINAL BLOCK
 - COAX CABLE
 - ⊞ SWITCHES FOR LIGHTS AND CAMERA POWER
 - POWER WIRE
 - ⊞ OUTLET IN HEADER BEAM
 - HANDHOLE SIZED FOR FUTURE MEDIA CONVERTOR
- PROVIDED/INSTALLED BY CONTRACTOR
- POWER WIRE
 - COAX CABLE



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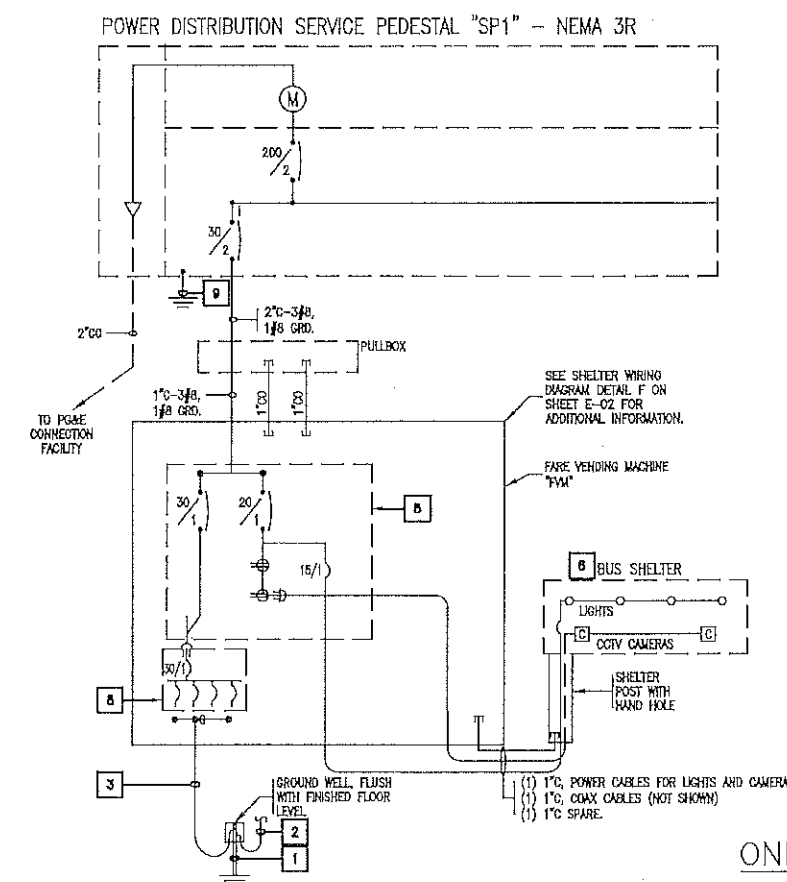
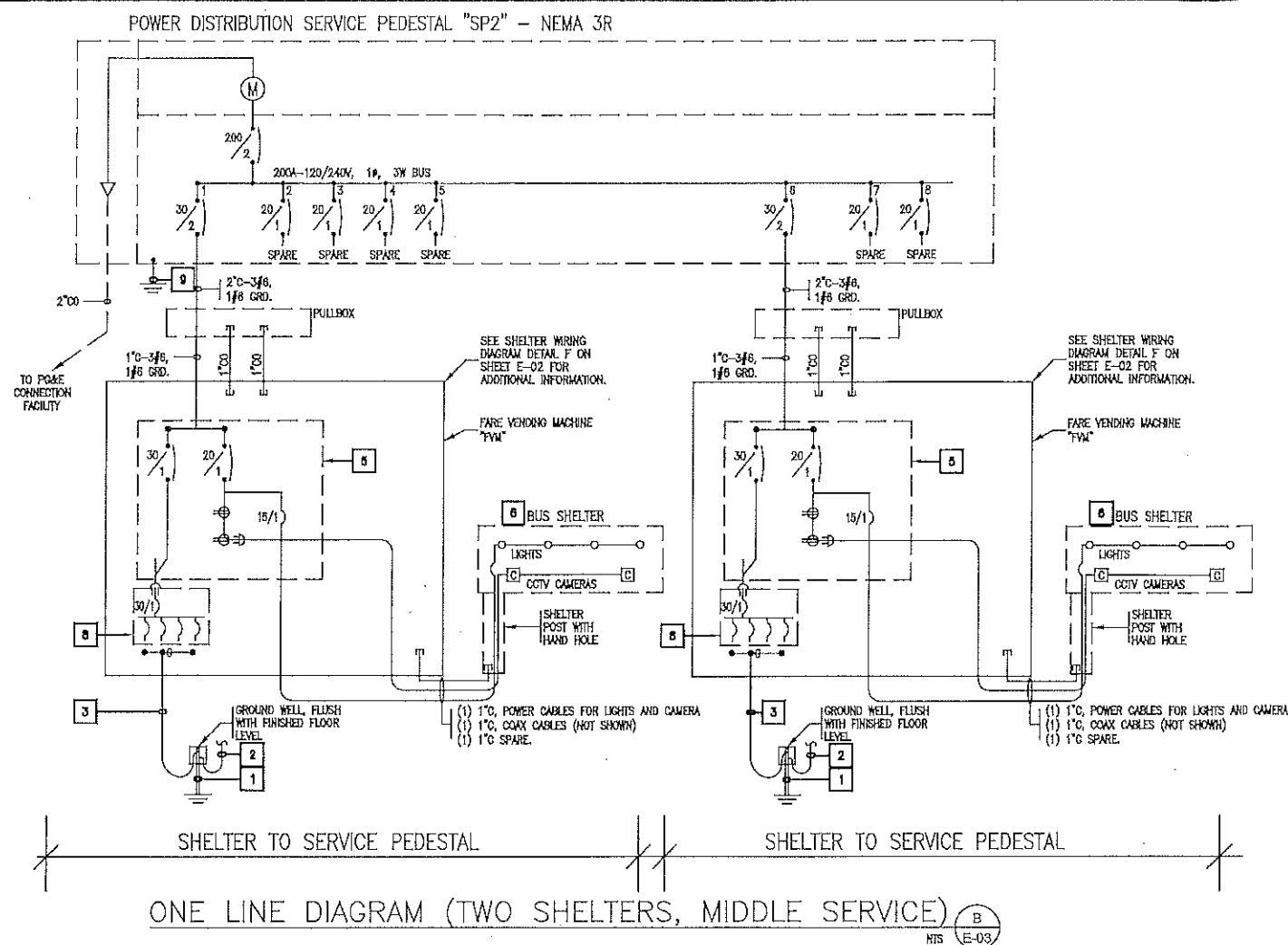
CONSTRUCTION DETAILS

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

Revision No.	Description	Date	By	Apprvd. By

SCALE	AS SHOWN	APPROVED BY:	SHEET NO.
DESIGNED BY	ABH	DATE	E-02
DRAWN BY	MMT		OF 33 SHEETS
CHECKED BY	JB		18118
RECORD DWGS.		CITY ENGINEER	PROJECT NO.
		STOCKTON, CALIFORNIA	





ONE LINE DIAGRAM (ONE SHELTER, CLOSE SERVICE) A E-03

THIS SHEET IS ACCURATE FOR ELECTRICAL WORK ONLY

AIC RATING OF SWITCHBOARD AND PANEL BOARDS:

1. THE ACTUAL AVAILABLE MAXIMUM FAULT CURRENT AT THE SERVICE PEDESTAL IS NOT YET AVAILABLE FROM THE SERVING UTILITY COMPANY. THE UTILITY COMPANY SERVING THIS PROJECT IS:

P.G.&E. NEW SERVICES DIVISION, 4040 WEST LANE,
P.O. BOX 930, STOCKTON, CA 95201-0930.
CONTACT PERSON: THOMAS SAMANIEGO
PHONE: (209) 942-1793
2. THE FAULT CURRENT RATING WILL BE AVAILABLE AFTER P.G.&E. HAS ENGINEERED THEIR DISTRIBUTION SYSTEM FOR THIS PROJECT.
3. ELECTRICAL CONTRACTOR SHALL VERIFY THE MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVICE PEDESTAL AND SHALL ENSURE THAT THE A.I.C. RATING OF THE PEDESTAL SHALL EXCEED OR EQUAL THAT.
4. COORDINATE WITH P.G.&E AS REQUIRED TO DETERMINE THIS INFORMATION.

NOTES (THIS SHEET ONLY):

1. PULL BOXES ARE NOT SHOWN ON ONE LINE DIAGRAM. SEE SITE PLANS FOR MINIMUM REQUIRED PULL BOXES

PROJECT NOTES (THIS SHEET ONLY):

- 1 PROVIDE 8"x8" COPPER CLAD GROUND ROD. LOCATE IN GROUND WELL IN PLANTER AREA ADJACENT TO THE SHELTER CONCRETE WORK. ENSURE IT IS LOCATED IN THE CITY OF STOCKTON RIGHT-OF-WAY. GROUND WELL TO BE CHRISTY #G5.
- 2 PROVIDE 1/2"Ø, 1#10 BC GROUND TO BUS SHELTER STEEL. BOND ALL ITEMS TO GROUND ELECTRODE.
- 3 1/2"Ø, 1#10 BC GROUND TO GROUND ROD.
- 4 RESERVED.
- 5 AC JUNCTION BOX WITH INCOMING LUGS, CIRCUIT BREAKERS AND DUPLEX OUTLETS PROVIDED BY FVM MANUFACTURER. E.C. SHALL CONNECT INCOMING 120/240V 1Φ FEEDER TO JBOX. LABEL 30A 1P AND 20A 1P CIRCUIT BREAKERS "SERVICE DISCONNECT #1" AND "SERVICE DISCONNECT #2", RESPECTIVELY.
- 6 SHELTER WITH INTEGRAL LED LIGHTS AND CAMERA POWER SUPPLY, WITH DISCONNECT FOR LIGHTS AND CAMERA POWER SUPPLY.
- 7 RESERVED.
- 8 INTERNAL BREAKER PANEL PROVIDED WITH "FVM" MACHINE (BY OTHERS), PREWIRED TO ALL LOADS.
- 9 SEE DETAIL A SHEET E-02 FOR SIZE OF GROUNDING ELECTRODE CONDUCTOR AND ELECTRODE TYPE.



Stantec Consulting Inc. Tel. (925)941-1400
1340 Treat Blvd. Suite 300 Fax (925)941-1401
Walnut Creek, CA 94597

SAN JOAQUIN REGIONAL TRANSIT DISTRICT
METRO EXPRESS BUS STOP IMPROVEMENTS IV

ONE LINE DIAGRAMS

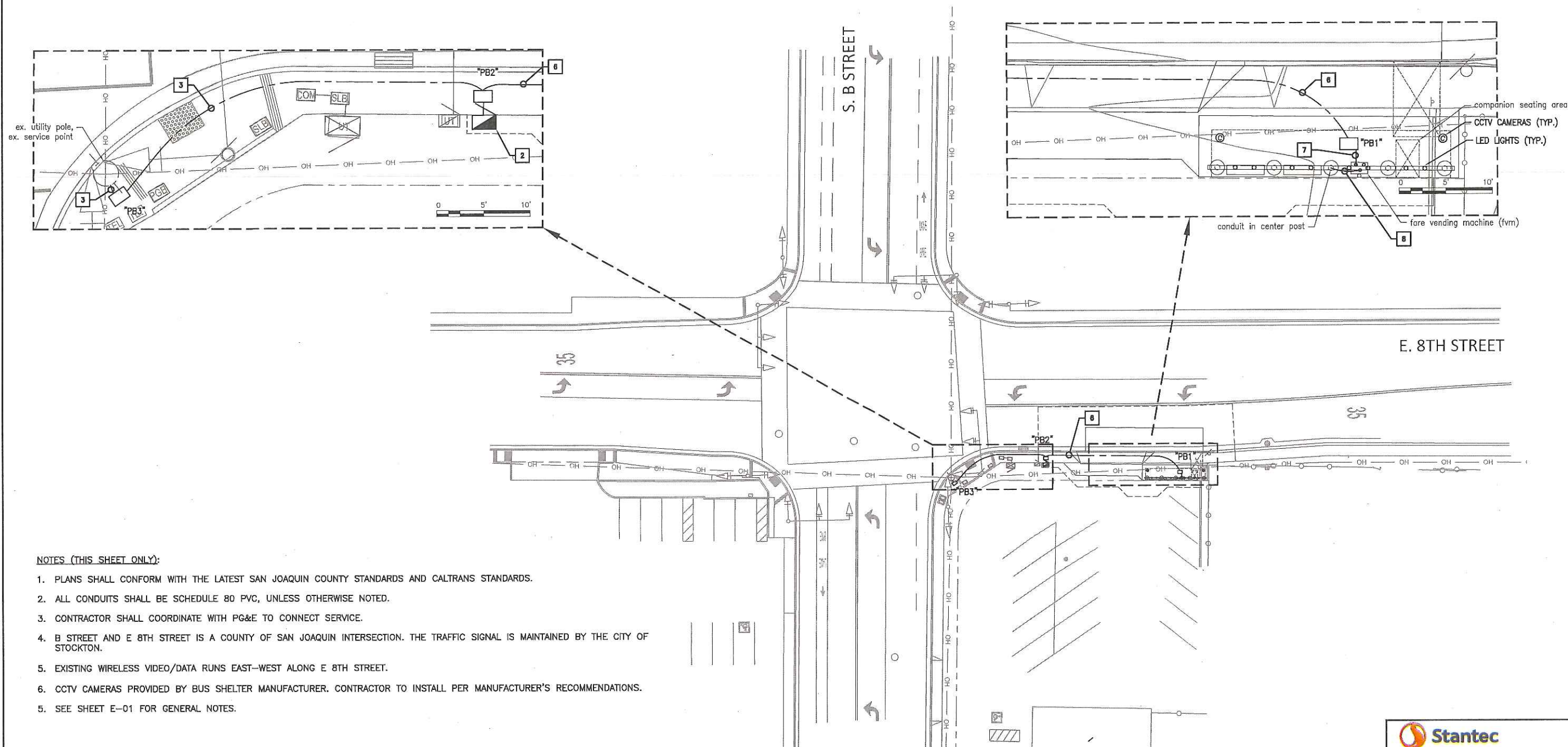
DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

Revision No.	Description	Date	By	Apprv. By

SCALE AS SHOWN	APPROVED BY:	SHEET NO.
DESIGNED BY ABH	DATE	E-03
DRAWN BY AMT		OF 33 SHEETS
CHECKED BY JB		16116
RECORD DWGS.	CITY ENGINEER STOCKTON, CALIFORNIA	PROJECT NO.



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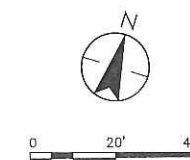


NOTES (THIS SHEET ONLY):

1. PLANS SHALL CONFORM WITH THE LATEST SAN JOAQUIN COUNTY STANDARDS AND CALTRANS STANDARDS.
2. ALL CONDUITS SHALL BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL COORDINATE WITH PG&E TO CONNECT SERVICE.
4. B STREET AND E 8TH STREET IS A COUNTY OF SAN JOAQUIN INTERSECTION. THE TRAFFIC SIGNAL IS MAINTAINED BY THE CITY OF STOCKTON.
5. EXISTING WIRELESS VIDEO/DATA RUNS EAST-WEST ALONG E 8TH STREET.
6. CCTV CAMERAS PROVIDED BY BUS SHELTER MANUFACTURER. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
7. SEE SHEET E-01 FOR GENERAL NOTES.

PROJECT NOTES (THIS SHEET ONLY):

1. RESERVED.
2. FURNISH AND INSTALL PG&E SERVICE PEDESTAL. VERIFY FINAL LOCATION IN FIELD WITH RTD AND PG&E.
3. FURNISH AND INSTALL 2" CONDUIT TO PG&E FACILITY. COORDINATE EXACT METHOD OF CONNECTION TO PG&E FACILITY WITH PG&E.
4. RESERVED.
5. RESERVED.
6. FURNISH AND INSTALL 2" CONDUIT WITH WITH 3#8, 1#8(GRD) CONDUCTORS. SEE DETAIL A ON SHEET E-03.
7. STUB ALL SITE CONDUITS AND CABLES INTO FVM - (1) 1" CONDUIT (POWER), (2) 1" CONDUIT (SPARE).
8. PROVIDE CONDUIT STUBS FROM FVM TO INSIDE POST PER DETAIL B ON SHEET E-02. CONTRACTOR SHALL CONNECT POWER CABLES FROM FVM INTO TERMINATION POINT INSIDE SHELTER ASSEMBLY. SEE DETAIL F ON SHEET E-02 FOR SHELTER WIRING DIAGRAM.



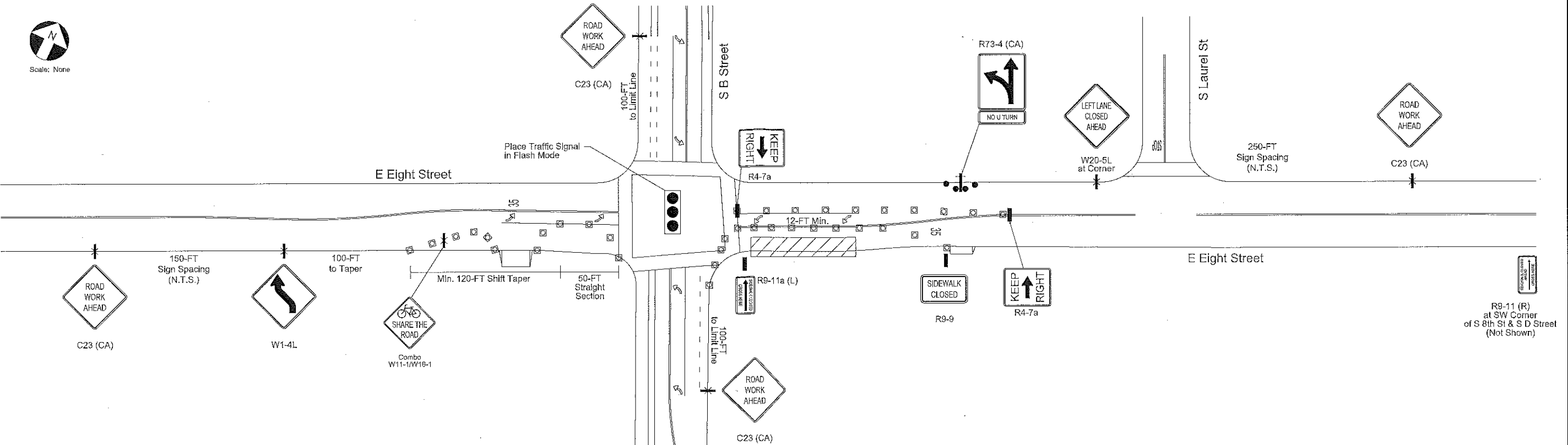
Stantec Consulting Inc. Tel. (925)941-1400 1340 Treat Blvd. Suite 300 Fax. (925)941-1401 Walnut Creek, CA 94597	
COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS	
APPROVED AS "ENCROACHMENT PERMIT PLAN SET" APPROVED FOR WORK WITHIN COUNTY RIGHT-OF-WAY ONLY	
ACCEPTED:	DATE
RCE NO.:	EXP. DATE:
ENCROACHMENT PERMIT NO.:	DATE ISSUED: BY:

		SAN JOAQUIN REGIONAL TRANSIT DISTRICT METRO EXPRESS BUS STOP IMPROVEMENTS IV	
3244 Brookside Road, Suite 100 Stockton, California 95219 209-943-2021 www.siegfriedeng.com Fax: 209-943-9214		E EIGHTH STREET & SOUTH B STREET	
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		SHEET NO. E-08 OF 34 SHEETS 16116 PROJECT NO.	
Revision No.	Description	Date	By
1	SCALE AS SHOWN	DESIGNED BY	ABH
2	DRAWN BY	MMT	
3	CHECKED BY	JB	
4	RECORD DWGS.		
APPROVED BY:		DATE:	
FOR REFERENCE ONLY		CITY ENGINEER STOCKTON, CALIFORNIA	



THIS SHEET IS ACCURATE FOR ELECTRICAL WORK ONLY

2. E 8th Street at S B Street



NOTES:

- Working hours shall be as permitted by Local Encroachment Permit.
- This plan is schematic for the placement of traffic control elements, it is not intended for construction.
- Contractor shall be responsible for the procurement, installation and maintenance of all traffic control elements.
- Contractor shall provide regular street sweeping activities or as required by the Project Engineer.
- All travel lanes shall remain open and clear after work hours (Typical).
- Contractor shall steel-plate cover open trench areas within roadway to local specifications during non-working hours (not shown). Plates shall be flush to pavement, pinned, and welded together.
- Contractor shall provide Type II barricades with Flashers at open trench areas along curb or sidewalk during non-work hours (not shown). Temporary traffic control signs shall be in accordance with the California MUTCD. All signs shall meet or exceed retroreflectivity standards.
- All barricades shall operate with flashers.
- All striping shall be in accordance with the latest Caltrans Standard Plans and Specifications.
- Cover all existing signs to remain that conflict with temporary traffic control.
- All temporary signs shall be placed per MUTCD Section 6F.03.
- All striping in conflict with the lane reconfigurations shall be removed and replaced at completion of the project.
- These plans shall be used as a guide for traffic control, but the contractor is responsible for the job site and vehicular safety and shall implement a traffic control plan according to MUTCD guidelines. If contractor wishes to implement a different traffic control plan, then the contractor shall submit a separate traffic control plan for City review and approval. Owner and Engineer will not be responsible for schedule delays for the contractor wishing to submit a separate traffic control plan for City review.

LEGEND:

- 28-Inch High Traffic Cone with Reflective Band - Cone Spacing at 25-FT
- ◻ 48-Inch High Portable Delineator with Reflective Band
- ◻ 32-Inch High Glue-Down Delineator with Reflective Band
- Type II Barricade with MUTCD or CA Standard Traffic Sign, Designation Shown
- New Sign Post with MUTCD or CA Standard Traffic Sign, Designation Shown
- Type III Barricade with MUTCD or CA Standard Traffic Sign, Designation Shown
- High-Visibility Flag Tree w/MUTCD or CA Standard Traffic Sign, Designation Shown

- Type II Arrow Board - Sequential Arrow Sequence Shown
- In-Line Crash Barrier
- Work Zone Area
- SPOT Safe Path of Travel (SPOT) for Pedestrians
- TANS "Tow-Away No Stopping" Zone
- Certified Traffic Control Flagger

COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS	
APPROVED AS "ENCROACHMENT PERMIT PLAN SET" APPROVED FOR WORK WITHIN COUNTY RIGHT-OF-WAY ONLY	
ACCEPTED:	DATE
RCE NO.:	EXP. DATE:
ENCROACHMENT PERMIT NO.:	DATE ISSUED: BY:

Traffic Patterns P.O. Box 25 Danville, CA 94526 O: (925) 916-9141 www.trafficpatterns.net info@trafficpatterns.net					SAN JOAQUIN REGIONAL TRANSIT DISTRICT METRO EXPRESS BUS STOP IMPROVEMENTS IV				
					TRAFFIC CONTROL PLANS EIGHTH STREET & SOUTH B STREET				
					DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA				
Revision No.	Description	Date	By	Apprvd. By	SCALE NO SCALE	DESIGNED BY J. RODRIGUEZ	DATE	APPROVED BY:	SHEET NO. TC-04
					DRAWN BY J. RODRIGUEZ	CHECKED BY SIEGFRIED	RECORD DWGS.	FOR REFERENCE ONLY CITY ENGINEER STOCKTON, CALIFORNIA	OF 34 SHEETS 16116 PROJECT NO.



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