



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-1601068
Date Issued: 04/26/2018
Start Date: 04/30/2018
Exp. Date: 06/30/2018
Project No: PWP760527
Quad: LV

ENCROACHMENT PERMIT

To: CITY OF STOCKTON
22 E. WEBER AVE
RM 301 95202

Encroachment Type:

Trench	Pavement Restoration	Bypass Over Slough	
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Location:

Alexandria Place

In compliance with your request of 04/19/2016, 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:

Traffic Control Per MUTCD and approved drawings.

FORMS:

SS/WW, R-29	Trench Cut Pley	
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Est. Permit Fee: \$11,300.00

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

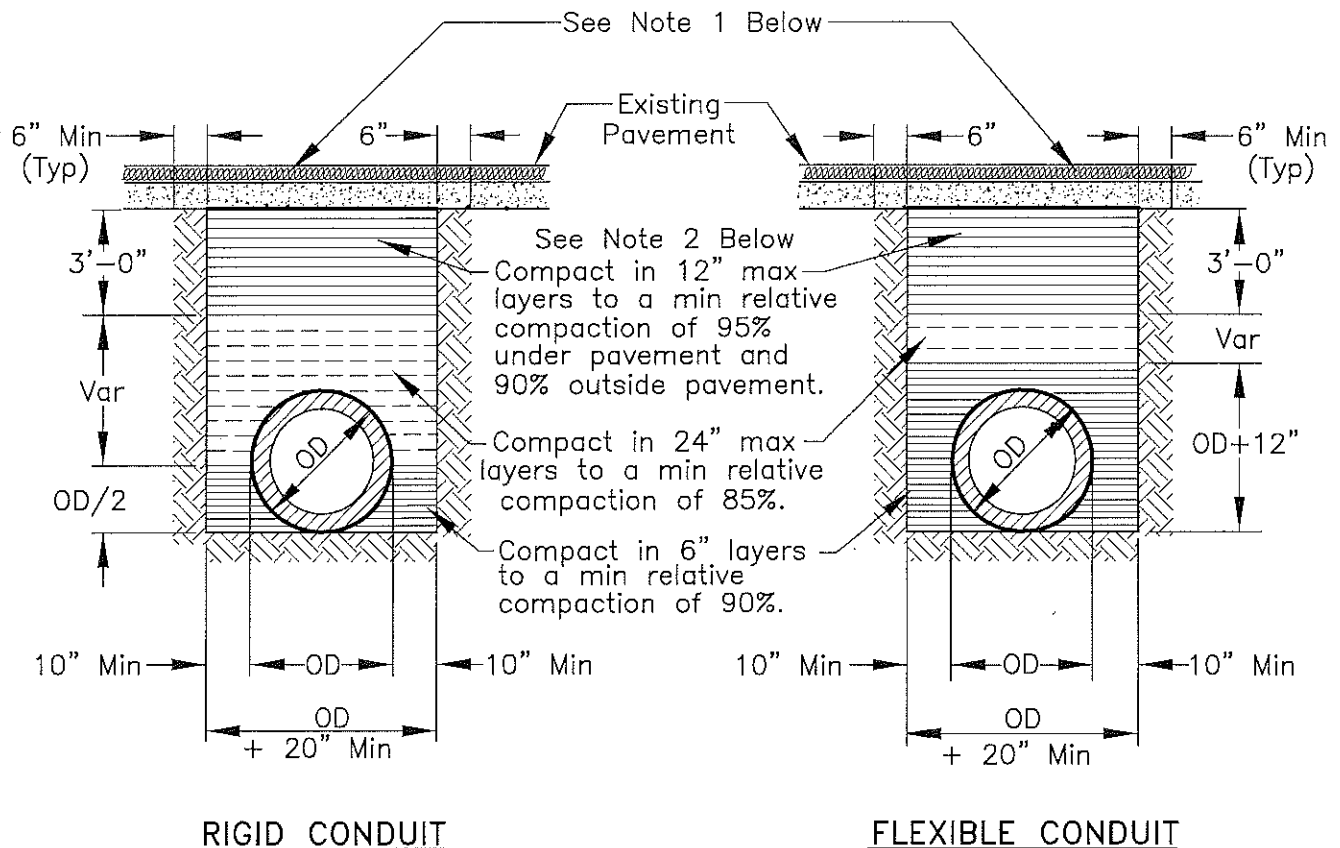
1. Division 1, Chapter 3
2. Division 2, Chapter 2, Section 942
3. Division 2, Chapter 4, Section 1126
4. Division 2, Chapter 5.5 and Chapter 6

SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3339, 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.

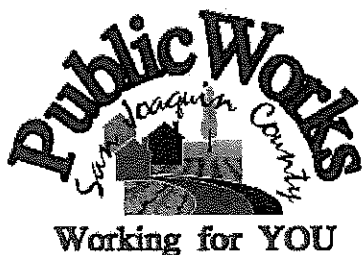
SPECIAL CONDITIONS FOR
ENCROACHMENT PERMIT

1. Maintain traffic controls for all roads per the approved traffic control drawings. Traffic control delays shall not exceed 15 minutes. 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. 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.
6. Trench plates and pipe ramps shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
7. All trenches shall be completely backfilled or shored and plated at the end of each workday, and the roadway restored to two-way traffic.
8. The contractor shall use San Joaquin County Standard R-29 when backfilling trenches within the County right-of-way. Where the existing road structural section is below standard, a minimum section of 3 inches of asphalt concrete over 8 inches of aggregate base shall be required.
9. Areas of Alexandria Place subject to pavement cuts shall receive a (1)-inch asphalt concrete overlay as per San Joaquin County Improvement Standards Section 2-5.0 Trench Cut Policy.
10. Final paving for trench repair or road resurfacing shall be per Caltrans' specifications and shall not occur between November 1 and March 31, without prior authorization from the San Joaquin County Field Engineering Division, contact them at 209-953-7421.
11. 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.
12. Any traffic signal loops or conduit that are damaged shall be replaced to match existing layout and materials.
13. The contractor shall not conduct construction operations in rain or heavy fog conditions.
14. Acceptance of drawings does not include temporary bypass over 14 Mile Slough. Design and calculations for the bypass railcar/temporary bridge over the slough shall be submitted to the County for review prior to installation.



NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.



TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by:

Thomas M. Hall

No.	Revision	Description	Date

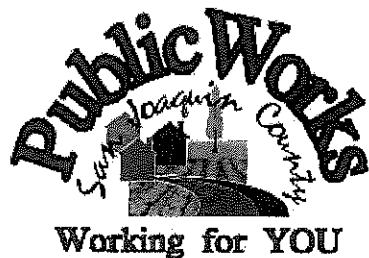
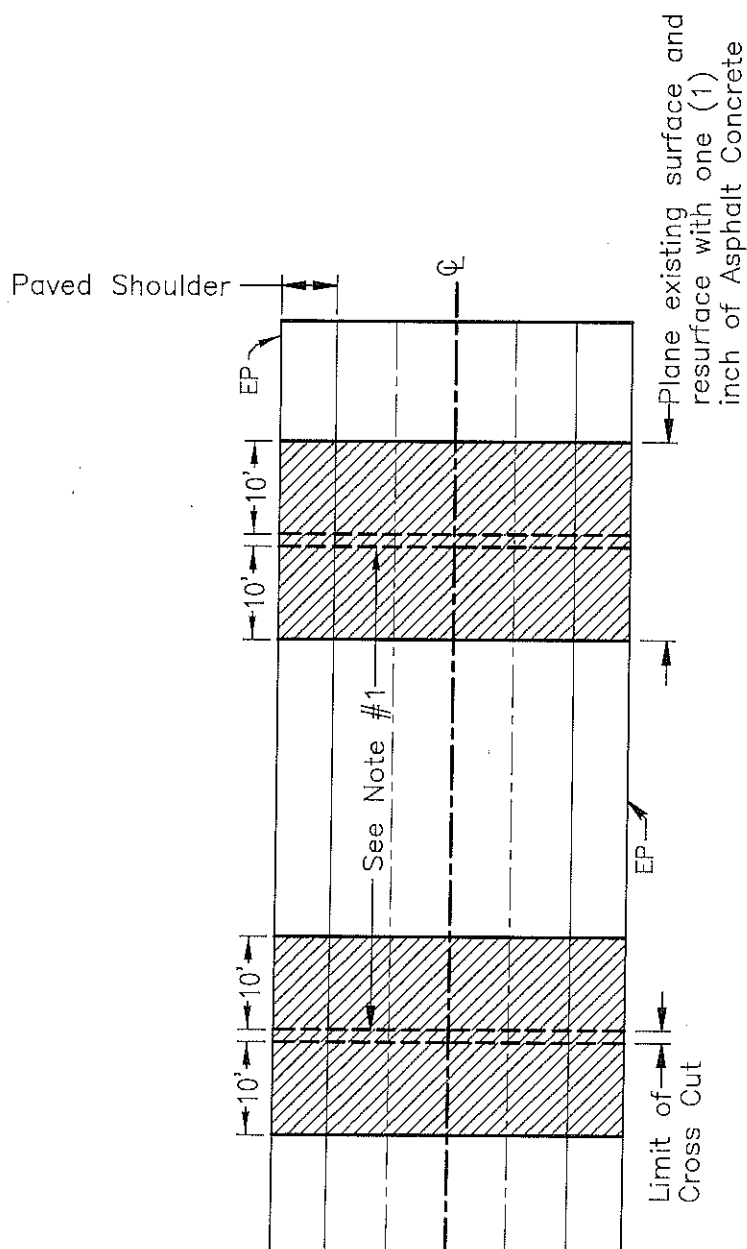
Date: DEC 2014

Std. Dwg. No.

R-29

NOTES:

1. If the distance between cross-cuts are less then 150' the entire area between corss-cuts shall be planed and resurfaced with one (1) inch of Asphalt Concrete.
2. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
3. Resurfacing for Bell Holes shall meet these requirements. If excavation occurs within the shoulder or lane, only that area shall be resufaced as shown.
4. If cross-cutting is performed on Local Roads at intervals less then 150' a Seal Coat for that half of the roadway containing the trench can be used in lieu of resurfacing. Section 2-5.03 (B-2).



**TRENCH CUTTING POLICY
CROSS CUTTING OF
COUNTY ROADWAYS**

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: DEC 2014

Approved by:

Michael Selby

No.	Revision	Description	Date

Std. Dwg. No.

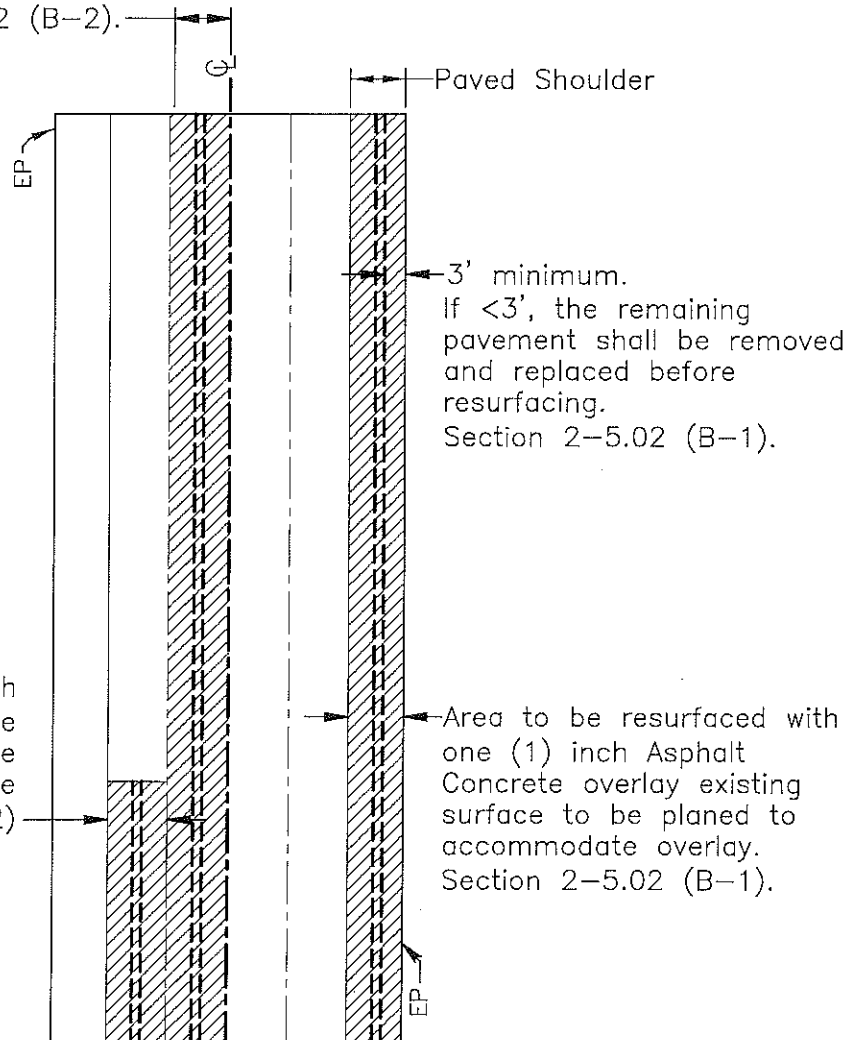
R-36

NOTES:

1. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
2. If longitudinal cuts are required on a Local Road a Seal Coat can be used for that half of the roadway containing the trench. Section 2-5.03 (B-1).

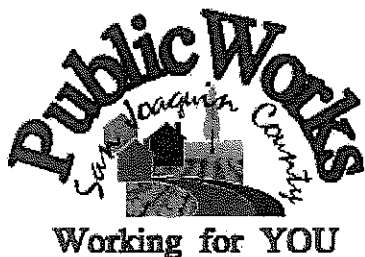
Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed, to accommodate overlay.

Section 2-5.02 (B-2).



Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed to accommodate overlay. Section 2-5.02 (B-2)

Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed to accommodate overlay. Section 2-5.02 (B-1).



**TRENCH CUTTING POLICY
LONGITUDINAL CUTTING
OF COUNTY ROADWAYS**

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: DEC 2014

Approved by:

Michael Selby

No.	Revision	Description	Date

Std. Dwg. No.

R-37

2-5.0 TRENCH CUT POLICY

2-5.01 General Requirements

- A. Resurfacing requirements specified in this policy are in addition to the trench resurfacing requirements specified by County Standard Drawing No. R-29.
- B. For the purpose of this policy, "Surfacing Age" is defined as the age of the most recently completed roadway surfacing, including construction, reconstruction, or major overlay.
- C. Where the application of seal coats is required, a Type II Slurry Seal will be used in accordance with State Standard Specifications, Section 37-2.
- D. The permittee must post a one-year maintenance bond or cash deposit, in an amount specified by the Department.
- E. All pavement markings destroyed or obliterated must be replaced in kind by the permittee. Typical pavement markings include, but are not limited to, lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers, and miscellaneous delineators.
- F. The permittee is responsible for Survey Monuments disturbed by trenching and is required to file a corner record and to reestablish them using a Licensed Land Surveyor after the trench restoration is completed.
- G. Functional classification maps and Public Works Project Advertising Schedules are references for this policy.
- H. To facilitate scheduling and planning, Public Works staff will make available the most current Project Advertising Schedule at the monthly Utility Coordination Meeting and make it available to the public, at the Permits Counter, in January each year.

2-5.02 Collectors, Arterials and Expressways

- A. Surfacing Age less than Three (3) Years: No pavement cuts. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.
- B. Surfacing Age Three (3) Years and Over:
 - 1. Longitudinal Trench Cutting in Paved Shoulder

Areas:

The entire shoulder of the road is to be resurfaced. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The nearest pavement cut shall be a minimum of three (3) feet from the edge of pavement, or the remaining pavement shall also be removed and replaced. (See County Standard Drawing No. R-37).

2. Longitudinal Trenches within Traveled Lanes:

The entire traveled lane where the trench is located is to be resurfaced with a one (1) inch asphalt concrete overlay. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The overlay shall be in accordance with State Standard Specifications, Section 39. Aggregate gradation shall be consistent with the existing surfacing material. (See County Standard Drawing No. R-37).

3. Cross-Cutting:

Cross-cutting is allowed at a minimum interval of 150 feet. At each cross-cut location a minimum of ten (10) feet on each side of trench shall be planed and resurfaced with one (1) inch asphalt concrete. If cross cuts are within the 150 feet minimum interval, the entire section between the first and last cross cut shall be planed and resurfaced with one (1) inch asphalt concrete. (See County Standard Drawing No. R-36).

4. The conditions described in paragraphs 1, 2 and 3 above will not apply if resurfacing is scheduled within two years.

2-5.03 Local Roads

A. Surfacing Age Under Three (3) years: No pavement cuts allowed. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.

B. Surfacing Age Three (3) to Five (5) Years:

1. Longitudinal cuts are permitted. A seal coat is required for that half of the roadway containing the trench. (See County Standard Drawing No. R-37).

2. Cross-cutting is allowed under the same conditions as Section 2-5.02(B)(3). If cross-cuts occur within the 150 feet minimum interval, resurfacing may be substituted with a slurry seal for that half of the roadway. (See County Standard Drawing No. R-36).

2-5.04 Exceptions

Excavation is prohibited in newly renovated County roadways for three (3) years after a notice of completion has been filed for a roadway improvement project, or a new roadway has been accepted. The Director of Public Works may approve exceptions that are in the best interest of the public, including but not limited to:

- A. An emergency that endangers life or property.
- B. For repair or modification to prevent interruption of essential utility service.
- C. For relocation work that is mandated by County, State or Federal law.
- D. For service for buildings where no other reasonable means of providing service exists.
- E. For potholing to verify utility depth or location.
- F. For trenchless excavations greater than three feet in depth of cover over the utility facility, and not requiring a significant surface incision greater than industry bore pit standards.

Exceptions must be requested and submitted in writing to the Department. Payment of a nonrefundable processing fee is also required. Exceptions will be reviewed using the Departments Action Approval process, which requires the recommendation of a Deputy Director.

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, lampholes, 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.

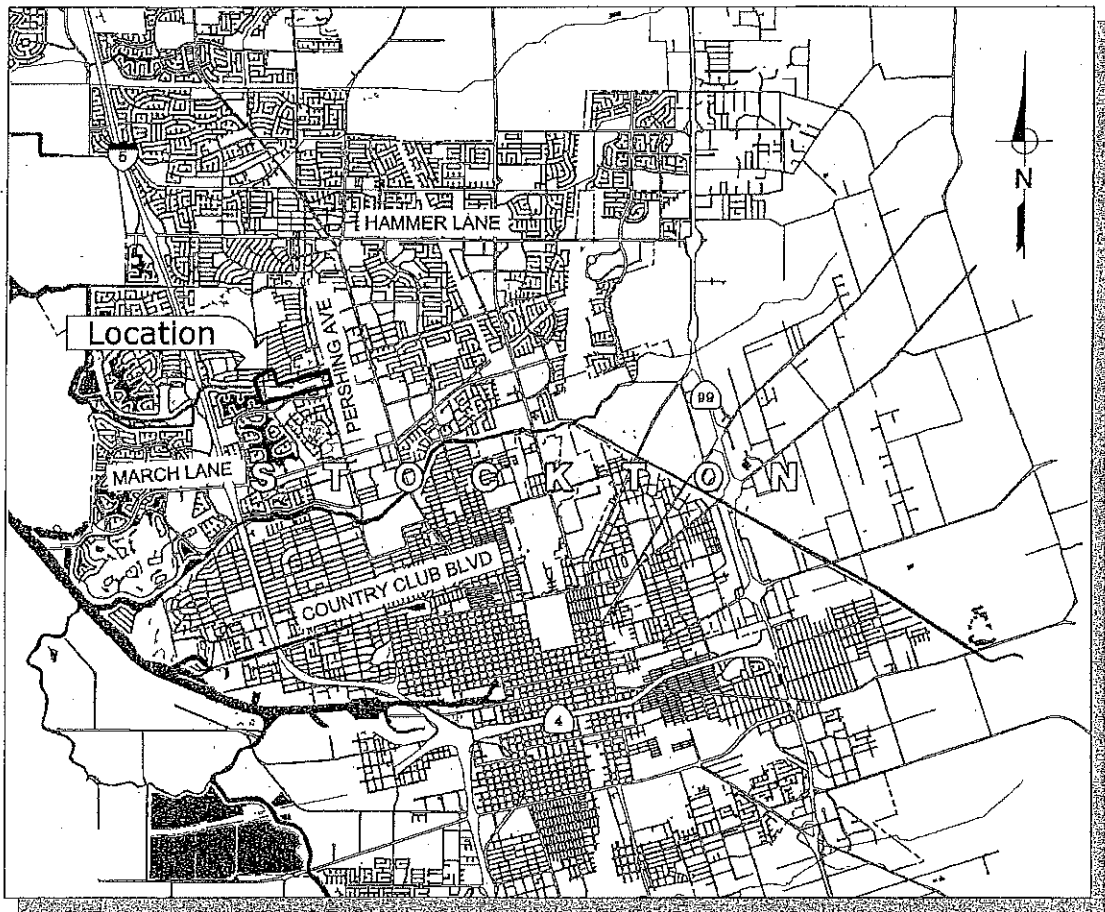
SPECIAL PROVISIONS

Winter Weather Utility Work

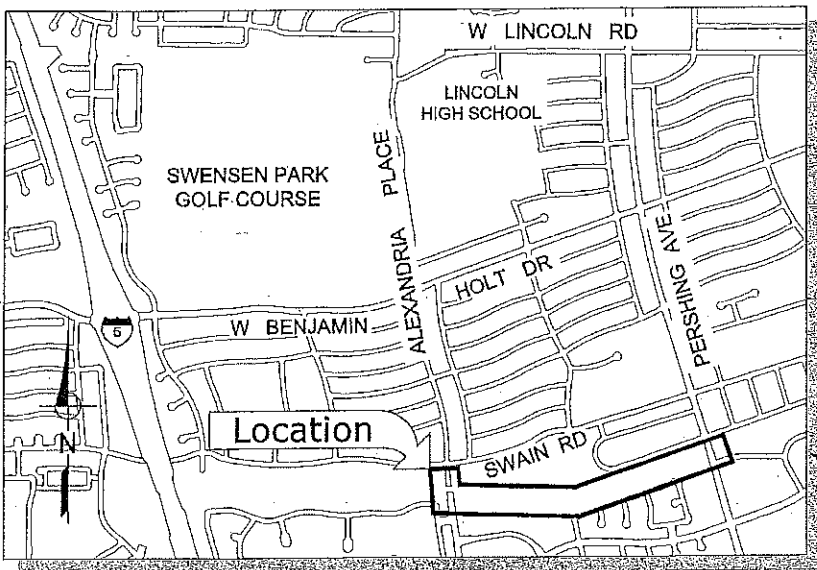
1. **SUPERVISION:** The utility company (**permittee**) shall furnish full-time supervision of all work to insure compliance with the permit provision.
2. **START OF WORK:** No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather 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.

BLACK OAK PUBLIC UTILITY EASEMENT
SANITARY SEWER REHABILITATION
PROJECT

PROJECT NO. M15002
DECEMBER 2016



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

DRAWING INDEX		
Sheet Number	Sheet Title	Sheet Description
1	G01	TITLE SHEET, VICINITY MAP AND SHEET INDEX
2	G02	LEGEND, ABBREVIATIONS AND GENERAL NOTES
3	G03	BLACK OAK PUE KEY MAP/ACCESS PLAN
4	C01	ALEXANDRIA PLACE STA 70+00 TO STA 75+03
5	C02	BLACK OAK PUE STA 75+03 TO STA 83+00
6	C03	BLACK OAK PUE STA 83+00 TO STA 92+00
7	C04	BLACK OAK PUE STA 92+00 TO STA 101+00
8	C05	BLACK OAK PUE STA 101+00 TO STA 107+60
9	D01	CIVIL DETAILS 1
10	D02	CIVIL DETAILS 2
11	B01	TEMPORARY BYPASS PLAN
12	B02	BYPASS DETAIL 1
13	B03	BYPASS DETAIL 2
14	TC01	TRAFFIC CONTROL PLAN 1
15	TC02	TRAFFIC CONTROL PLAN 2

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

APPROVED AS "ENCROACHMENT PERMIT PLAN SET"
APPROVED FOR WORK WITHIN COUNTY RIGHT-OF-WAY ONLY

ACCEPTED: *Alex Chetley* 4/30/18
DATE: 4/30/18
RCE NO.: 55407 EXP. DATE: 12/31/18

ENCROACHMENT PERMIT NO.: _____ DATE ISSUED: _____ BY: _____

BLACK OAK PUE SANITARY SEWER
REHABILITATION PROJECT
PROJECT NO. M15002

TITLE SHEET, VICINITY MAP AND SHEET INDEX

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE: AS SHOWN
DESIGNED BY: TMD/HM
DRAWN BY: JRR
CHECKED BY: NMM
RECORD Dwg.: _____

APPROVED BY: *[Signature]* DATE: 4/30/18
CITY ENGINEER, STOCKTON, CA

SHEET No.
G01
1 of 15 SHEETS
PROJECT No.
129-14-15-29



REV. NO.	DESCRIPTION	DATE	BY	APPROVED BY



2020 Research Park Drive
Suite 100
Davis, California 95618
(530) 766-5905
FAX (530) 755-5991

5277C

GENERAL NOTES:

1. CITY OF STOCKTON STANDARD SPECIFICATIONS AND STANDARD DRAWINGS ARE INCLUDED IN THE CONTRACT DOCUMENTS BY REFERENCE.
2. CALTRANS STANDARD PLANS AND SPECIFICATIONS, 2010 EDITION, ARE INCLUDED IN THE CONTRACT DOCUMENTS BY REFERENCE.
3. CONTRACTOR SHALL ARRANGE FOR ALL REQUIRED INSPECTION. PRESENCE OR ABSENCE OF AN INSPECTOR SHALL NOT RELIEVE CONTRACTOR OF FULL RESPONSIBILITY FOR PROPER PERFORMANCE OF THE WORK.
4. GROUND WATER IS ANTICIPATED TO BE 25-30 FEET BELOW GROUND SURFACE. GROUND WATER LEVELS MAY CHANGE WITH SEASON AND PERCHED GROUNDWATER MAY BE FOUND ANYWHERE. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING.
5. CONTRACTOR SHALL COMPLY WITH CONFINED SPACE ENTRY REQUIREMENTS OF CAL-OSHA AND CITY OF STOCKTON. CONTRACTOR SHALL SUBMIT SAFETY PLAN, COMPLY WITH ALL STATE AND COUNTY LAWS AND ORDINANCES RELATING TO SAFETY AND CHARACTER OF WORK, AND SUPPLY ALL EQUIPMENT AND LABOR PERSONNEL. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, SHORING OF TRENCHES AND EXCAVATIONS AND VENTILATING CONFINED SPACES.
6. SEE SPECIFICATIONS FOR CONSTRUCTION SEQUENCING REQUIREMENTS.
7. CONTRACTOR SHALL SELECT CONSTRUCTION EQUIPMENT TO MINIMIZE DAMAGE TO EXISTING PAVEMENT AT PROJECT SITE AND AT ALL ROADS USED TO MOVE MATERIAL AND EQUIPMENT TO AND FROM PROJECT. REPLACE DAMAGED ASPHALT CONCRETE PAVEMENT IN ACCORDANCE WITH CONTRACT DOCUMENTS. ALL PAVEMENT, INCLUDING ASPHALT CONCRETE (AC) AND PORTLAND CEMENT CONCRETE (PCC) PAVING, SHALL BE SAW CUT PRIOR TO INSTALLATION OF PAVEMENT PATCH. COORDINATE SAW CUT WITH CITY INSPECTOR.
8. ANY PAVEMENT DISTURBED MUST BE REMOVED, ALL SUBGRADE AND ANY UNDERLYING MATERIAL DISTURBED SHALL BE RECOMPACTED, AND ORIGINAL VERTICAL ALIGNMENT RESTORED.
9. CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL MATERIALS THAT ARE TO BE REMOVED FROM THE SITE INCLUDING SURPLUS EXCAVATION MATERIALS AND DEBRIS. CONTRACTOR SHALL MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION. THE CONTRACTOR SHALL DELIVER MATERIALS OR EQUIPMENT TO BE SALVAGED AND RETURNED TO THE OWNER AT THE LOCATION TO BE DETERMINED BY THE ENGINEER.
10. NOTIFY UNDERGROUND SERVICES ALERT (USA) AT (800) 277-2600 AT LEAST 48 HOURS PRIOR TO ALL EXCAVATION.
11. MAINTAIN ACCESS TO ROADS AND DRIVEWAYS TO ALL PROPERTIES ADJACENT TO WORK THROUGHOUT PERIOD OF CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS.
12. TEMPORARY ACCESS ROADS CONSTRUCTED BY THE CONTRACTOR TO FACILITATE THE WORK AND NOT INDICATED AS PERMANENT ACCESS ROADS ON THE PLANS SHALL BE REMOVED AT THE COMPLETION OF THE WORK. ALL GRAVEL AND ROCK USED FOR TEMPORARY ACCESS ROADS SHALL BE PLACED ON GEOTEXTILE FABRIC AND SHALL BE REMOVED AT THE END OF CONSTRUCTION.
13. CONTRACTOR SHALL MAINTAIN ADEQUATE DUST CONTROL PER SECTION 10 AND SECTION 14, CALTRANS STANDARD SPECIFICATIONS.
14. THE TYPE, LOCATION, SIZE AND DEPTH OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. EFFORTS HAVE BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND FACILITIES. HOWEVER, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND FACILITIES, NOR FOR EXISTENCE OF OTHER BURIED OBJECTS AND/OR FACILITIES WHICH MAY BE ENCOUNTERED BUT ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL EXPOSE ALL UNDERGROUND FACILITIES THAT ARE TO BE CONNECTED TO, OR THAT ARE IN THE PATH OF, THE PROPOSED IMPROVEMENTS FOR VERIFICATION OF LOCATION AND ELEVATION PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING THE WORK OF THE PROJECT PER THE IMPROVEMENT PLANS DESPITE BURIED OBJECTS OR FACILITIES WHICH WERE NOT EXPECTED TO BE ENCOUNTERED.

14. UNLESS OTHERWISE INDICATED, DRIVEWAYS AND CULVERTS ARE TO BE REPLACED IN KIND IF DAMAGED AT THE CONTRACTOR'S EXPENSE.
15. ANY AND ALL PIPELINES DAMAGED DURING CONSTRUCTION MUST BE SATISFACTORILY REPLACED AND/OR REPAIRED, AND INSPECTED BY THE ENGINEER.
16. THE CONTRACTOR 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.
17. UNLESS INDICATED OTHERWISE, PROVIDE 12" MIN. VERTICAL CLEARANCE BETWEEN WATERLINE & BYPASS FACILITIES.
18. THE OWNER OR THE ENGINEER MAY REQUIRE THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE TO UNCOVER ANY IMPROVEMENTS THAT HAVE BEEN COMPLETED WITHOUT PROPER INSPECTION AND/OR APPROVAL. IF THE INSTALLATION IS FOUND NOT TO MEET CONTRACT REQUIREMENTS OR PREVIOUSLY APPROVED ALTERNATIVES SHOWN ON THE PLANS, THE CONTRACTOR MAY BE REQUIRED TO REMOVE AND REPLACE SUCH IMPROVEMENTS AT HIS EXPENSE.
19. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
20. CONTRACTOR TO FIELD VERIFY ALL EXISTING STRUCTURES FOR VERIFICATION OF DIMENSIONS WHERE WORK IS TO BE PERFORMED.
21. CONTRACTOR SHALL REFER TO ALL RELATED DRAWINGS AND TO MANUFACTURER'S DRAWINGS FOR COMPLETE DETAILS OF A GIVEN FACILITY.
22. CONTRACTOR SHALL PREPARE BYPASS PLANS, STOPPAGE PLANS AND CONTROL OF WASTE WATER FLOW FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
23. SOME EXISTING ABANDONED UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES. WHERE SHOWN, ABANDONED UTILITIES ARE BASED ON FIELD OBSERVATIONS AND EXISTING IMPROVEMENT PLANS, AND MAY NOT BE ACCURATE. NO ATTEMPT WAS MADE TO IDENTIFY OR SHOW ALL ABANDONED UTILITIES. CONTRACTOR SHALL VERIFY ABANDONMENT OF UTILITIES NOT IDENTIFIED ON THE PLANS PRIOR TO DISTURBANCE.
24. ANY PAVEMENT DELINEATION REMOVED OR DAMAGED SHALL BE REPLACED AND EXTENDED TO THE NEAREST PUBLIC STREETS (IN BOTH DIRECTIONS).
25. LENGTH OF PIPELINE SHOWN IS BASED ON CENTER OF MANHOLE TO CENTER OF MANHOLE. CONTRACTOR SHALL FIELD VERIFY PIPE DIAMETER AND LENGTH OF EACH REACH PRIOR TO ORDERING LINER MATERIALS.
26. SEE SPECIAL PROVISIONS FOR PERMIT CONDITIONS

LEGEND - CIVIL

	NATURAL GROUND OR GRADE
	COMPACTED MATERIAL
	GRANULAR MATERIAL SUCH AS CRUSHED ROCK OR GRAVEL
	CITY/COUNTY LIMITS
	EXTENTS OF CITY PARK
	EXISTING FENCE
	EXISTING GRADE CONTOURS
	NEW FACILITY
	FUTURE FACILITY
	CENTERLINE
	DEMOLISH
	CONCRETE SECTION
	LIMITS OF ACCESS
	ACCESS ROAD
	SLOPE
	FLOW LINE OF DRAINAGE COURSE
	TEMPORARY SURVEY MONUMENT
	EXISTING PIPELINE
	PIPELINE TO BE REHABILITATED W/ CIPP
	DUAL BYPASS LINES (BELOW GROUND)
	DUAL BYPASS LINES (ABOVE GROUND)
	PREVIOUSLY ABANDONED SEWER LINE
	EXISTING SEWER LINE
	EXISTING STORM DRAIN LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING FIBER OPTIC LINE
	EXISTING ELECTRICAL
	EXISTING OVERHEAD ELECTRIC
	EXISTING SANITARY SEWER MANHOLE
	NEW SANITARY SEWER MANHOLE
	EXISTING SEWER VALVE
	EXISTING FIRE HYDRANT
	EXISTING STORM DRAIN INLET
	BYPASS PUMP STATION
	SANITARY CLEANOUT
	TRAFFIC SIGNAL INDUCTION LOOP

ABBREVIATIONS

AB	AGGREGATE BASE	MAX	MAXIMUM
AC	ASPHALT CONCRETE	MIN	MINIMUM
ACP	ASBESTOS CEMENT PIPE	MCD	MILLION GALLONS PER DAY
ADA	AMERICANS WITH DISABILITIES ACT	MH	MAINTENANCE HOLE
ADJ	ADJUSTED	MJ	MECHANICAL JOINT
AL, ALUM	ALUMINUM	MOV	MOTOR OPERATED VALVE
AP	ANGLE POINT	MPH	MILE PER HOUR
APPROX.	APPROXIMATE	MTOO	MARK THOMAS COMPANY SURVEY
ASPH	ASPHALT	N	NORTH, NORTHING
BF	BLIND FLANGE	NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
BLDG	BUILDING	NIC	NOT IN CONTRACT
CDF	CONTROLLED DENSITY FILL	NTS	NOT TO SCALE
CI	CAST IRON	NW	NORTHWEST
CIP	CAST IRON PIPE	OC	ON CENTER
CIPP	CURED IN PLACE PIPE	OD	OUTSIDE DIAMETER
CL, CL	CENTER LINE	PAV/T	PAVEMENT
CLR	CLEAR	PG	RESSURE GAUGE
CLSM	CONCRETE LOW STRENGTH MATERIAL	PJF	PREFORMED JOINT FILLER
CMP	CORRUGATED METAL PIPE	PL	PLATE
CMU	CONCRETE MASONRY UNIT	P	PROPERTY LINE
CO	CLEAN OUT	PS	PUMP STATION
CONC	CONCRETE	PUE	PUBLIC UTILITY EASEMENT
CONT	CONTINUOUS	PV	PLUG VALVE
COS	CITY OF STOCKTON	PVC	POLYVINYL CHLORIDE
CP	CONTROL POINT	R	RADIUS
CV	CHECK VALVE	RCP	REINFORCED CONCRETE PIPE
CVFP	CENTRAL VALLEY FLOOD PROTECTION	REQ'D	REQUIRED
CY	CUBIC YARDS	R&R	REMOVE & RELOCATE
DIA, Ø	DIAMETER	R&S	REMOVE & SALVAGE
DIP	DUCTILE IRON PIPE	R/W	RIGHT OF WAY
DTL	DETAIL	S	SLOPE
DWG	DRAWING	SCH	SCHEDULE
E	EAST, EASTING	SD	STORM DRAIN
EF	EACH FACE	SHT	SHEET
EL, ELEV	ELEVATION	SQ	SQUARE
ELEC	ELECTRIC	SS	SANITARY SEWER
EP	EDGE OF PAVEMENT	SSB	STAINLESS STEEL BOLT
EQUIP	EQUIPMENT	SSMH	SANITARY SEWER MAINTENANCE HOLE
EW	EACH WAY	SOPC	SOCIETY OF PROTECTIVE COATINGS
EX, (E), E	EXISTING	STA	STATION
EXP	EXPANSION	STD	STANDARD
FAS	FLASHING ARROW SIGN	STL	STEEL
FCA	FLANGED COUPLING ADAPTER	T&B	TOP & BOTTOM
FCO	FLOOR CLEANOUT	TAN	TANGENT
FD	FLOOR DRAIN	TBM	TEMPORARY BENCHMARK
FF	FINISH FLOOR	TEL	TELEPHONE
F, FL	FLOW LINE	TOC	TOP OF CONCRETE
FLG	FLANGE	TOS	TOP OF STEEL OR TOP OF STRUCTURAL FRAME
FM	FORCE MAIN	TS	TUBULAR STEEL
FRP	FIBERGLASS REINFORCED PLASTIC	TYP	TYPICAL
FT	FEET	UG	UNDERGROUND
GS	GROUND SURFACE	UNO	UNLESS NOTED OTHERWISE
GSP	GROUND SURFACE PROFILE	VAR	VARIOUS
GYP	GYPNUM	VERT, V	VERTICAL
H	HORIZONTAL	W	WATER
ID	INSIDE DIAMETER	W/	WITH
IE	INVERT ELEVATION	W/O	WITHOUT
INV	INVERT	WS	WATER SURFACE
IPS	IRON PIPE SIZE		
LF	LINEAR FEET		

SECTION & DETAIL DESIGNATIONS

SECTION CUT ON DWG 21		SECTION LETTER
ON DWG 23 THIS SECTION IS IDENTIFIED AS:		DRAWING WHERE SECTION APPEARS
		SECTION LETTER
		DRAWING FROM WHICH SECTION WAS TAKEN
DETAILS ARE CROSS REFERENCED IN A SIMILAR MANNER, EXCEPT THAT DETAILS ARE IDENTIFIED BY A NUMBER RATHER THAN LETTER		

PIPING DESIGNATIONS

EXISTING PIPING	REHABILITATED PIPING
PIPE SIZE	PIPE SIZE
PIPING SYSTEM ABBREVIATION	PIPING SYSTEM ABBREVIATION

NOTE: MH SURVEY BASED ON NAVD 88, 100 FEET ADDED TO ELEVATIONS FOR CLARITY

BLACK OAK PUE SANITARY SEWER REHABILITATION PROJECT PROJECT NO. M15002

LEGEND, ABBREVIATIONS AND GENERAL NOTES

DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA			
SCALE: AS SHOWN	APPROVED BY: DATE:	SHEET No.	
DESIGNED BY: TMD/NM		G02	
DRAWN BY: JRR		2 of 16 SHEETS	
CHECKED BY: NAM		PROJECT No. 123-14-15-29	
RECORD DWG:	CITY ENGINEER, STOCKTON, CA		



REV. NO.	DESCRIPTION	DATE	BY	APR'D BY



5277.1C



ALEXANDRIA & 14 MILE
SLOUGH PUMP STATION

GATED ACCESS ROAD TO BLACK
OAK PUE. COORDINATE ACCESS
WITH CITY OF STOCKTON.

GATED ACCESS ROAD FOR MH 25H010. ACCESS
LIMITED TO SMALL PICKUP TRUCKS. COORDINATE
ACCESS WITH CEDAR RIDGE APARTMENT COMPLEX.

GATED ACCESS ROAD TO
BLACK OAK PUE.
COORDINATE ACCESS WITH
CITY OF STOCKTON.

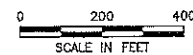
SEE NOTE 1

GATED ACCESS TO BLACK OAK PUE
RESTRICTED DUE TO DENSE TREES. SEE
NOTE 1. COORDINATE ACCESS WITH CITY
OF STOCKTON.

ABANDONED 12" SS
CONTRACTOR TO VERIFY

NOTES:

1. CONTRACTOR SHALL RETAIN A CERTIFIED ARBORIST TO
OVERSEE REMOVAL OF TREES WITH A DIAMETER LESS
THAN 16-INCHES AS NECESSARY FOR CONSTRUCTION.
GRIND STUMPS OF ALL TREES REMOVED. NO TREES
16-INCH IN DIAMETER OR LARGER SHALL BE REMOVED.
2. CONTRACTOR SHALL PROVIDE CLEAN ROCK OR ROAD BASE
AS NECESSARY TO COMPLETE CONSTRUCTION ACTIVITIES IN
BLACK OAK PUE. REMOVAL OF IMPORT NOT REQUIRED.
3. CONTRACTOR SHALL IMPLEMENT FIRE PREVENTION
MEASURES IN BLACK OAK PUE PER SPECIFICATION
SECTION 14.
4. BLACK OAK PUE SHALL NOT BE USED FOR CONTRACTOR
STAGING OR MATERIAL STORAGE YARD.
5. ALL EQUIPMENT IN THE BLACK OAK PUE SHALL BE
PLACED ON SPILL GUARDS.



SURVEY CONTROL POINTS				
POINT NUMBER	DESCRIPTION	LOCATION	NORTHING EASTING	ELEVATION
1009	FND. BRASS DISC IN MON. WELL	ALEXANDRIA PLACE & CANYON CREEK DRIVE	2187004.11 N 6320478.94 E	105.67
1007	SET NAIL & SHINER	ALEXANDRIA PLACE & NORTH PERSHING AVENUE	2187773.13 N 6323554.00 E	110.70
1005	SET NAIL & SHINER	NORTH PERSHING AVENUE & QUAIL LAKES DRIVE	2187151.03 N 6323822.500 E	110.63

NOTE: MH SURVEY BASED ON NAVD 88, 100' FEET
ADDED TO ELEVATIONS FOR CLARITY

**BLACK OAK PUE SANITARY SEWER
REHABILITATION PROJECT
PROJECT NO. M15002**

BLACK OAK PUE KEY MAP/ACCESS PLAN

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE: AS SHOWN	APPROVED BY: DATE: 12/22/16	SHEET No.
DESIGNED BY: TMD/AM		G03
DRAWN BY: JRR		3 of 15 SHEETS
CHECKED BY: NAY		PROJECT No. 129-14-15-29
RECORD Desg:	CITY ENGINEER, STOCKTON, CA	

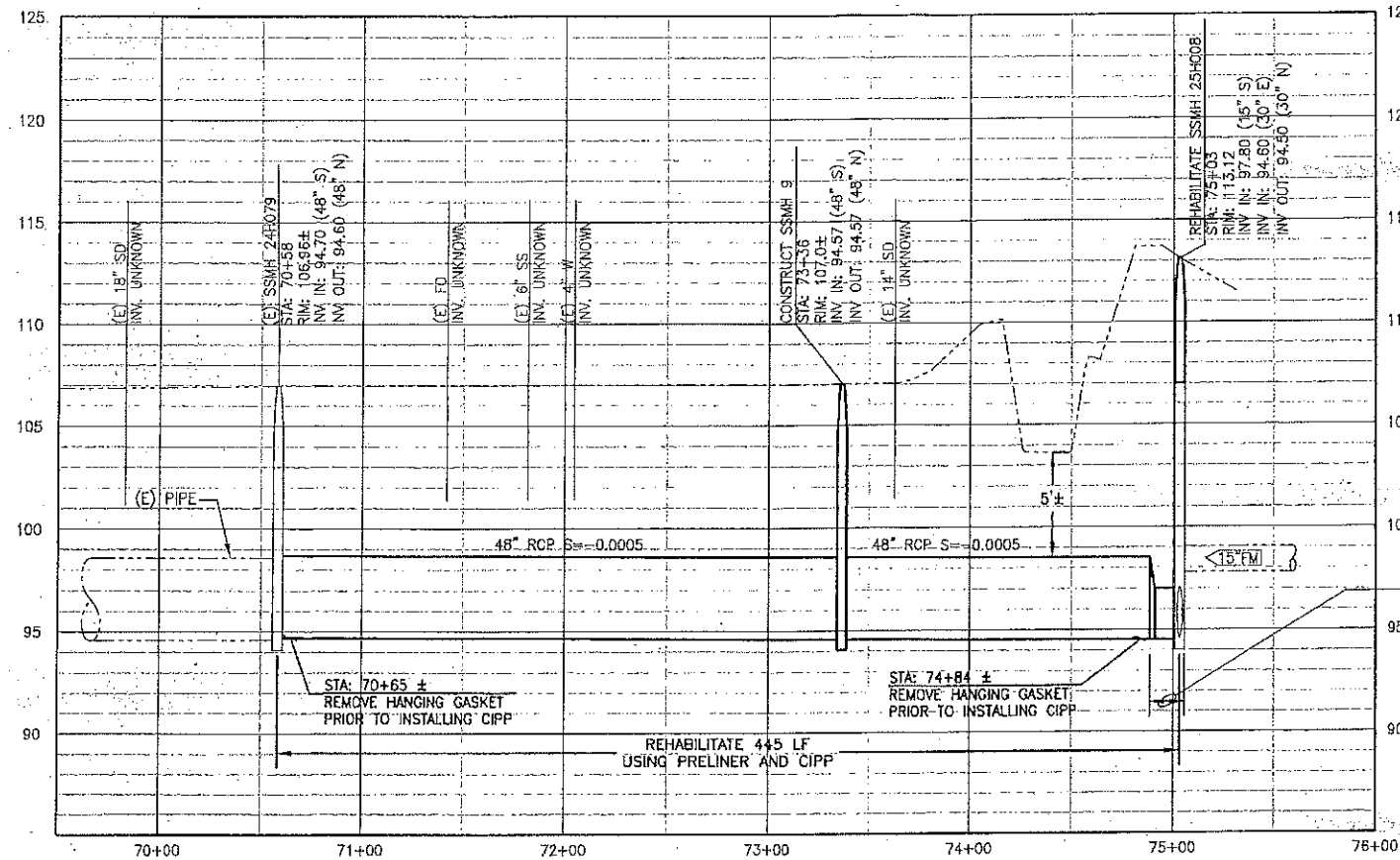


REV. NO.	DESCRIPTION	DATE	BY	APR'D BY



2020 Research Park Drive
Suite 100
Davis, California 95618
(530) 756-5905
FAX (530) 756-5991

5277.20



PROFILE

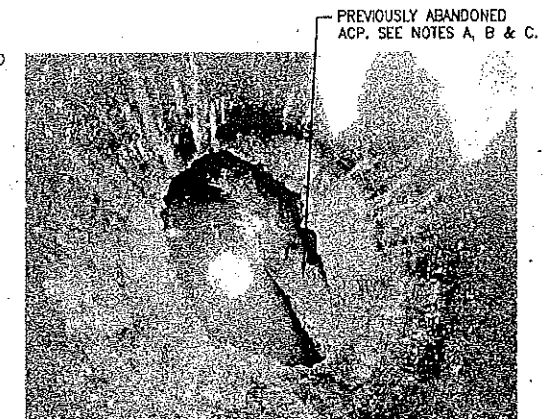
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PLAN

SCALE IN FEET
0 40 80

- NOTES:
- EXISTING RCP TRUNK HAS COAL TAR LINING THAT IS FAILING. PRELINER REQUIRED.
 - CONTRACTOR SHALL REMOVE FAILING (HANGING) GASKETS PRIOR TO INSTALLING CIPP.
 - REHABILITATE MAINTENANCE HOLES PER DETAIL 1/D01.
 - LOCATION OF 8" ABANDONED SEWER LINE UNKNOWN.
 - PEDESTRIAN AND/OR BIKE ACCESS SHALL NOT BE IMPEDED AT FOOT BRIDGE. RAMPS SHALL BE INSTALLED OR PIPE SHALL BE BURIED TO MAINTAIN ACCESS.
 - BACKFILL AND SURFACE RESTORATION BETWEEN SSMH 24H079 AND 14 MILE SLOUGH AND IN THE COUNTY LIMITS ON SWAIN ROAD SHALL BE PERFORMED IN ACCORDANCE WITH COUNTY STANDARD PLANS AND SPECIFICATIONS.



SSMH 24H079

DETAIL A

- NOTES:
- 10" ACP AT BOTTOM OF MH CHANNEL. CONTRACTOR SHALL VERIFY THAT THERE IS NO FLOW IN PIPE.
 - REMOVE PORTIONS OF MAIN PROTRUDING INTO MANHOLE AND LEGALLY DISPOSE OF PIPE.
 - FILL 10" ACP WITH SAND AND CAP WITH CONCRETE TO ABANDON IN PLACE.

NOTE: MH SURVEY BASED ON NAVD 88, 100 FEET ADDED TO ELEVATIONS FOR CLARITY

**BLACK OAK PUE SANITARY SEWER
REHABILITATION PROJECT
PROJECT NO. M15002**

ALEXANDRIA PLACE STA 70+00 TO STA 75+03

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

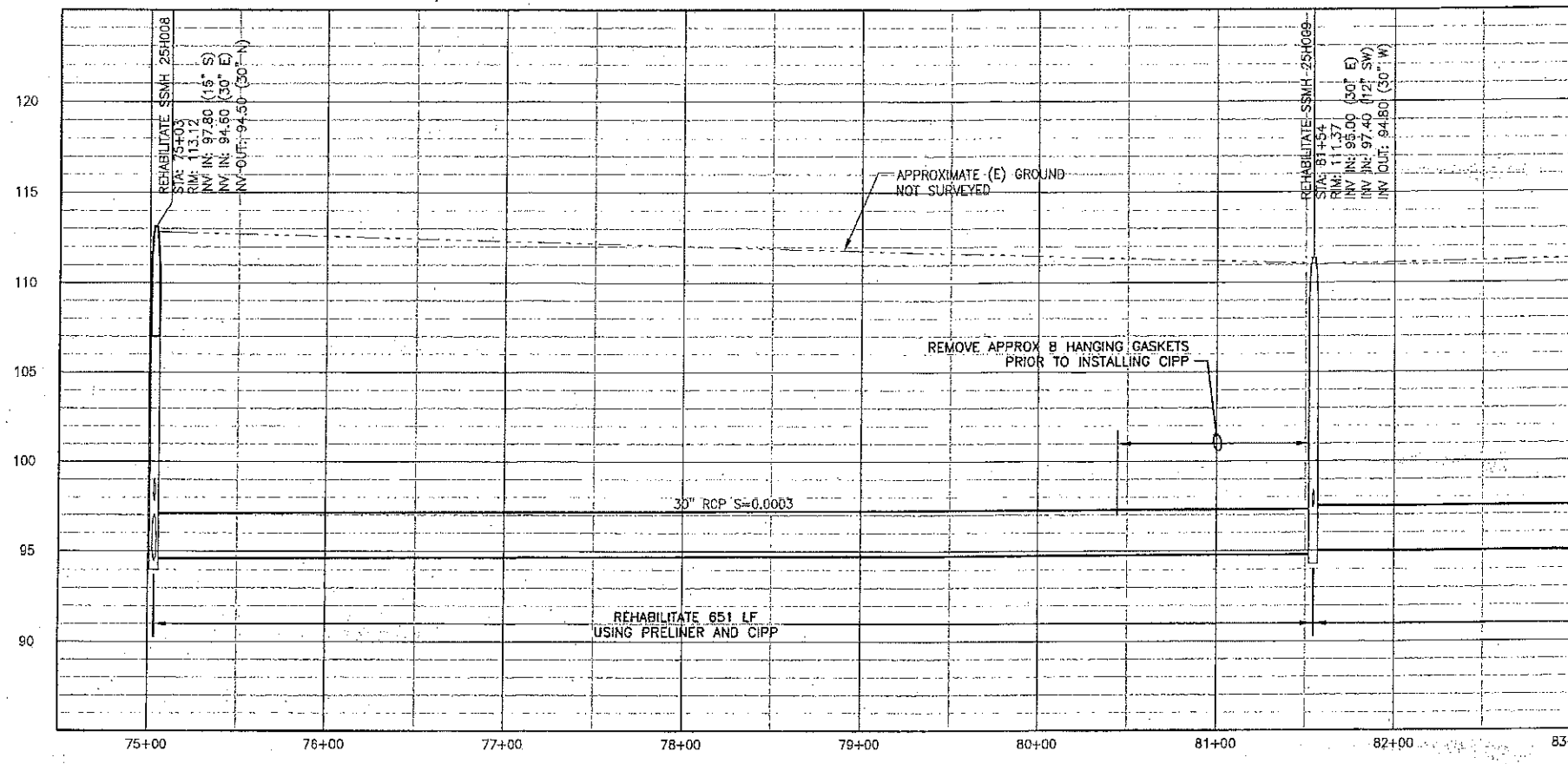
SCALE: AS SHOWN	APPROVED BY: DATE: 12/22/16	SHEET No.
DESIGNED BY: TMD/NM		C01
DRAWN BY: JRR		4 of 15 SHEETS
CHECKED BY: JRM		PROJECT No. 128-14-15-29
RECORD DWG:		



REV. NO.	DESCRIPTION	DATE	BY	APPROVED BY



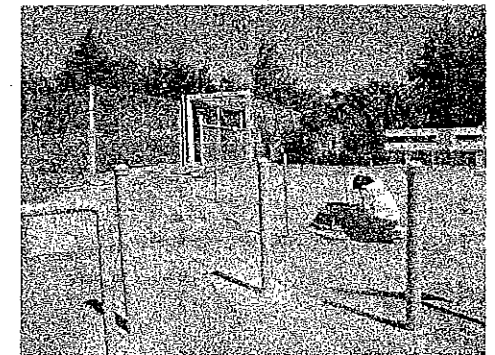
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PROFILE

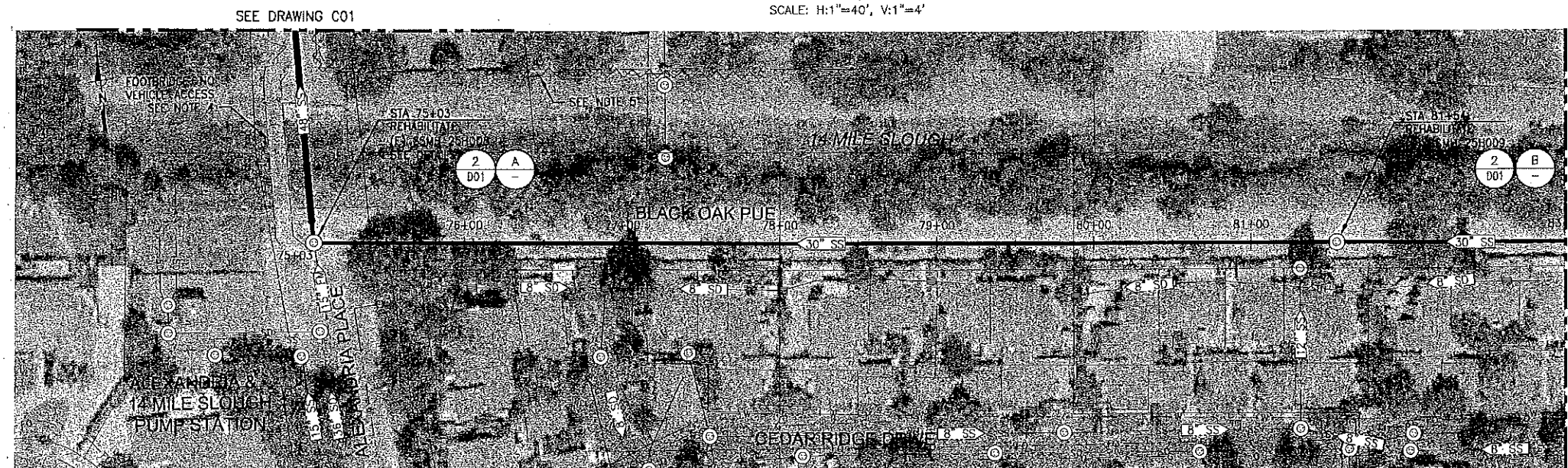
SCALE: H:1"=40', V:1"=4'

- NOTES:
1. EXISTING RCP TRUNK HAS COAL TAR LINING THAT IS FAILING. PRELINER REQUIRED.
 2. CONTRACTOR SHALL REMOVE FAILING (HANGING) GASKETS PRIOR TO INSTALLING CIPP.
 3. ALL (E) MAINTENANCE HOLES REFERENCED ON PLAN TO BE REHABILITATED PER DETAIL 1/D01.
 4. PEDESTRIAN AND/OR BIKE ACCESS SHALL NOT BE IMPEDED AT FOOT BRIDGE. ADA COMPLIANT RAMPS SHALL BE INSTALLED OR PIPE SHALL BE BURIED TO MAINTAIN ACCESS.
 5. LOCATION OF 8" ABANDONED SEWER LINE UNKNOWN.



SSMH 25H008

DETAIL A



PLAN

SCALE IN FEET
0 40 80



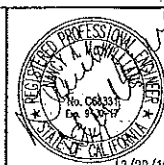
SSMH 25H009

DETAIL B

NOTE: MH SURVEY BASED ON NAVD 88, 100 FEET ADDED TO ELEVATIONS FOR CLARITY

**BLACK OAK PUE SANITARY SEWER
REHABILITATION PROJECT
PROJECT NO. M15002**

BLACK OAK PUE STA 75+03 TO STA 83+00

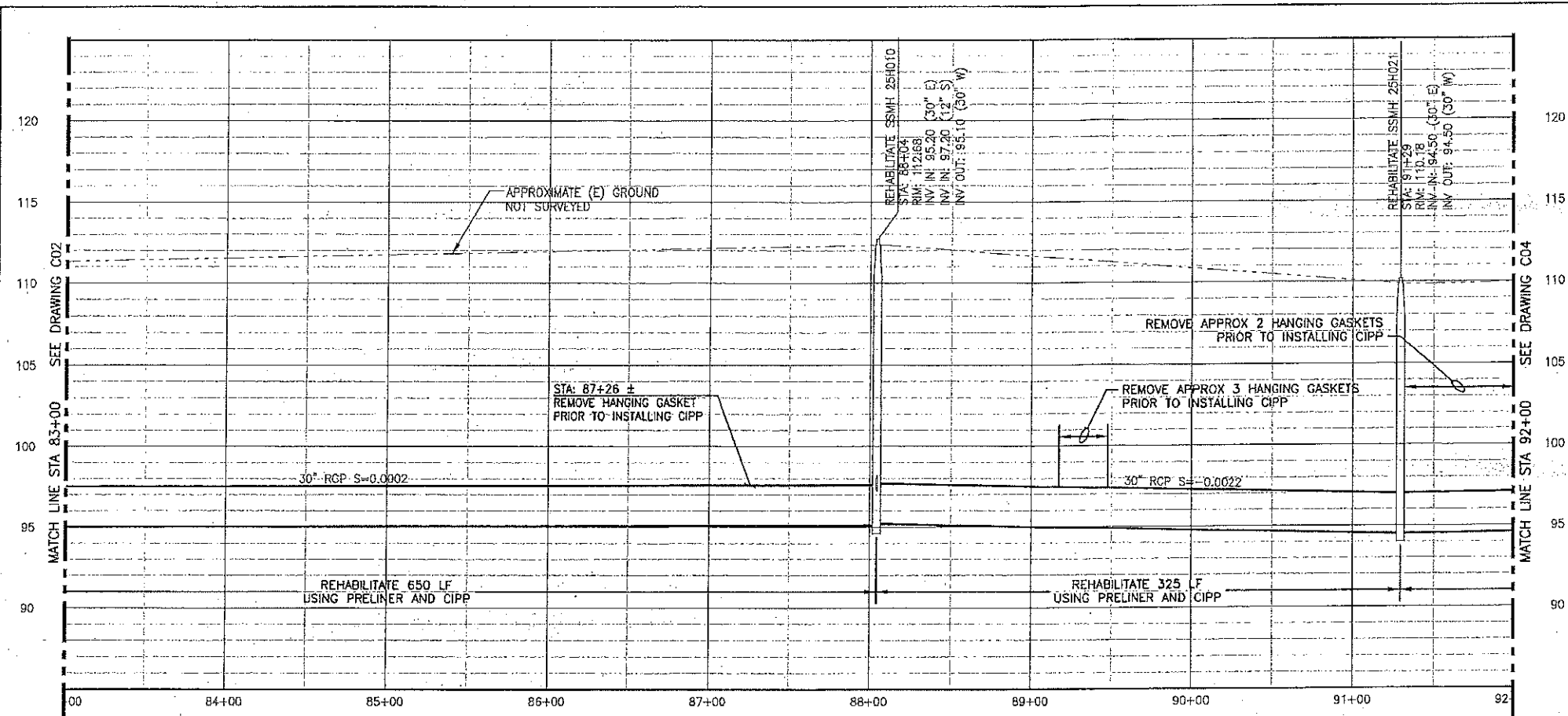


REV. NO.	DESCRIPTION	DATE	BY	APP'D BY

WEST YOST ASSOCIATES
2020 Research Park Drive
Suite 100
Davis, California 95618
(530) 756-5905
FAX (530) 756-5991

DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		SHEET No.
SCALE: AS SHOWN	APPROVED BY: DATE: 12/22/16	C02
DESIGNED BY: TMD/HM	DRAWN BY: JRR	8 of 15 SHEETS
CHECKED BY: NAM	RECORD Dwg.:	PROJECT No. 129-14-15-29

5277.40



PROFILE
SCALE: H:1"=40', V:1"=4'

- NOTES:
1. EXISTING RCP TRUNK HAS COAL TAR LINING THAT IS FAILING. PRELINER REQUIRED.
 2. CONTRACTOR SHALL REMOVE FAILING (HANGING) GASKETS PRIOR TO INSTALLING CIPP.
 3. ALL (E) MAINTENANCE HOLES REFERENCED ON PLAN TO BE REHABILITATED PER DETAIL 1/D01.



SSMH 25H010
DETAIL C



SSMH 25H021
DETAIL D

NOTE: MH SURVEY BASED ON NAVD 88, 100 FEET ADDED TO ELEVATIONS FOR CLARITY

**BLACK OAK PUE SANITARY SEWER
REHABILITATION PROJECT
PROJECT NO. M15002**

BLACK OAK PUE STA 83+00 TO STA 92+00

DEPARTMENT OF PUBLICWORKS
CITY OF STOCKTON, CALIFORNIA

SCALE: AS SHOWN	APPROVED BY: DATE: 12/22/16	SHEET No.
DESIGNED BY: TMD/NA		C03
DRAWN BY: JRR		6 of 15 SHEETS
CHECKED BY: NAL		PROJECT No. 129-14-15-29
RECORD Dwg.	CITY ENGINEER, STOCKTON, CA	

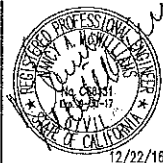
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Underground Service Alert

TWO DAYS BEFORE YOU DIG

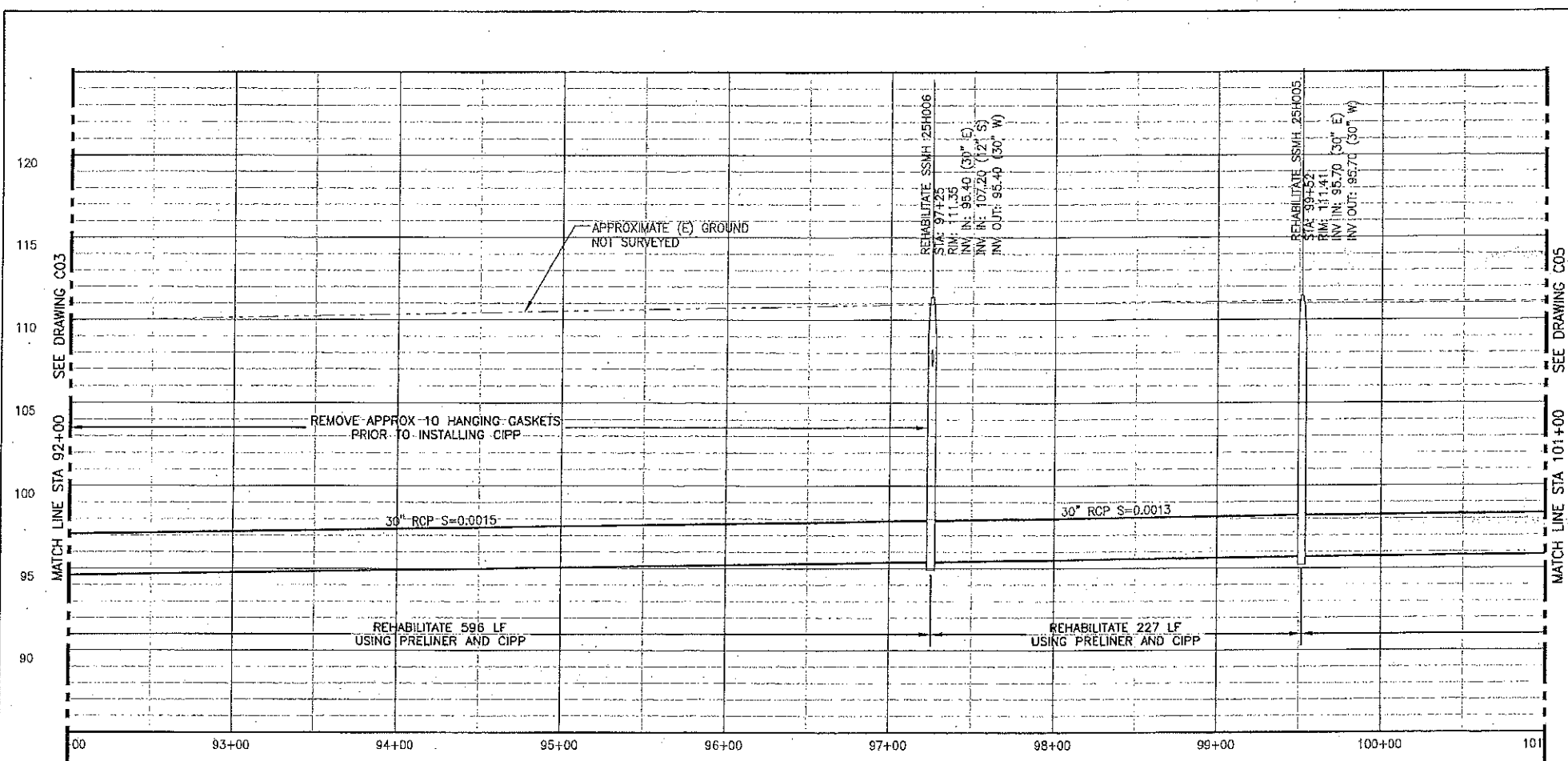
Call TOLL FREE: 1-800-277-2800



REV. NO.	DESCRIPTION	DATE	BY	APPROVED BY

WEST YOST ASSOCIATES

2020 Research Park Drive
Suite 100
Davis, California 95618
(530) 756-5905
FAX (530) 756-5991

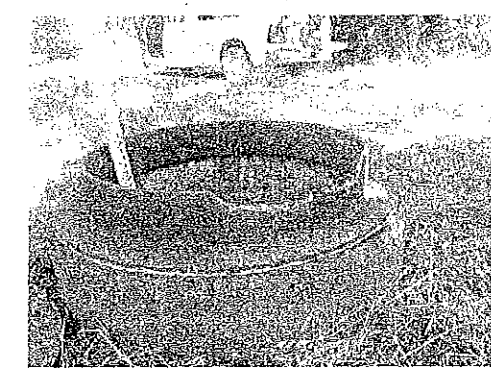


PROFILE
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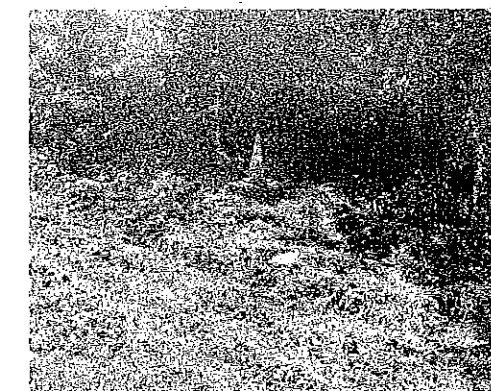


PLAN
SCALE IN FEET

- NOTES:
1. EXISTING RCP TRUNK HAS COAL TAR LINING THAT IS FAILING. PRELINER REQUIRED.
 2. CONTRACTOR SHALL REMOVE FAILING (HANGING) GASKETS PRIOR TO INSTALLING CIPP.
 3. ALL (E) MAINTENANCE HOLES REFERENCED ON PLAN TO BE REHABILITATED PER DETAIL 1/D01.



SSMH 25H006
DETAIL E



SSMH 25H005
DETAIL F

NOTE: MH SURVEY BASED ON NAVD 88, 100 FEET ADDED TO ELEVATIONS FOR CLARITY

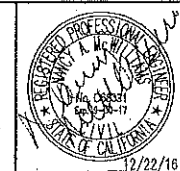
BLACK OAK PUE SANITARY SEWER REHABILITATION PROJECT PROJECT NO. M15002	
BLACK OAK PUE STA 92+00 TO STA 101+00	
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA	
SCALE: AS SHOWN DESIGNED BY: TMD/NM DRAWN BY: JRR CHECKED BY: NAW RECORD Eng:	APPROVED BY: DATE: 4/22/17 CITY ENGINEER STOCKTON, CA
SHEET No. C04 7 of 15 SHEETS PROJECT No. 129-14-15-20	5277.60

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Underground Service Alert

TWO DAYS BEFORE YOU DIG

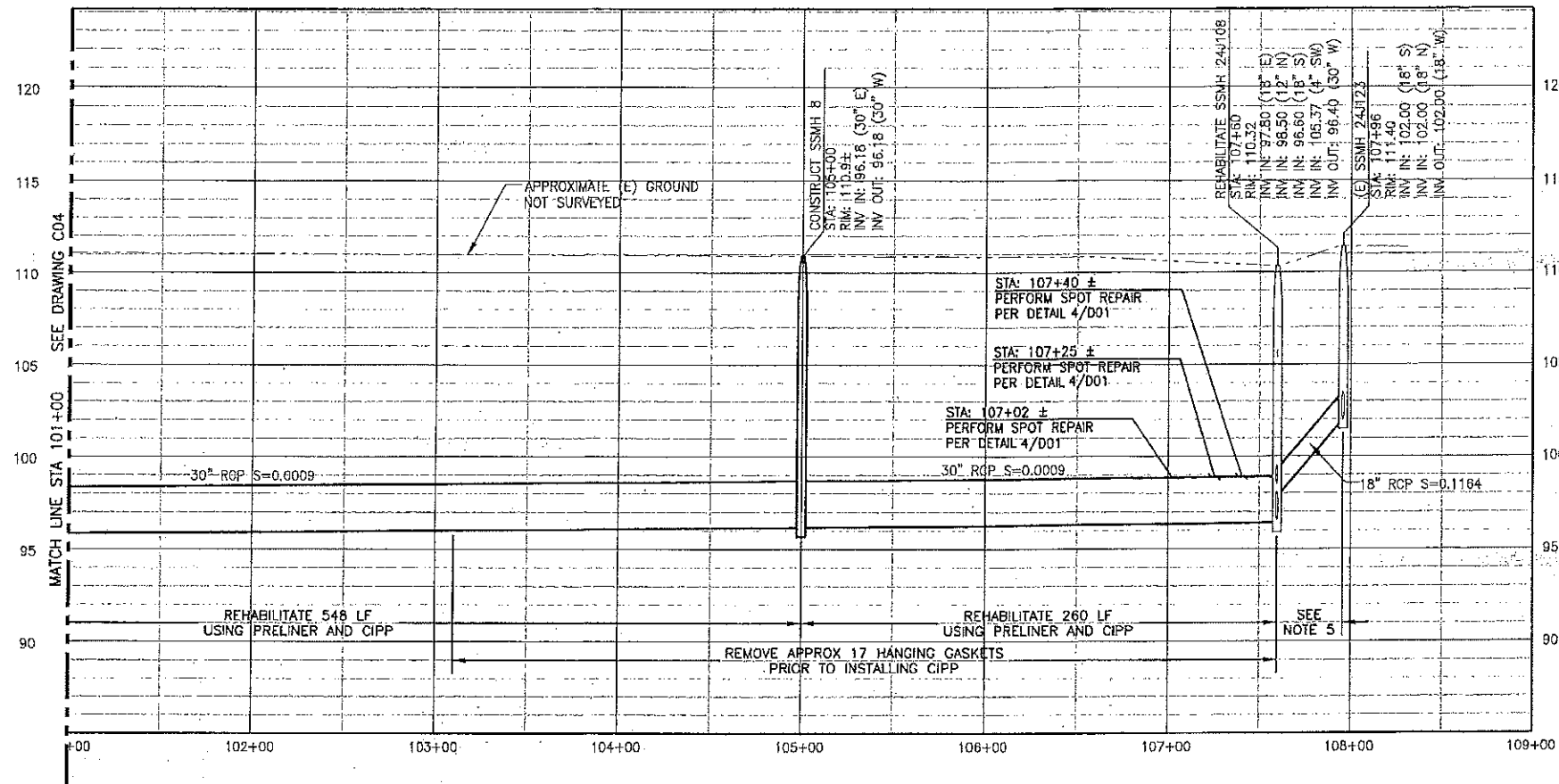
Call TOLL FREE: 1-800-277-2800



REV. NO.	DESCRIPTION	DATE	BY	APPROVED BY

WEST YOST ASSOCIATES

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(530) 756-5905
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PROFILE

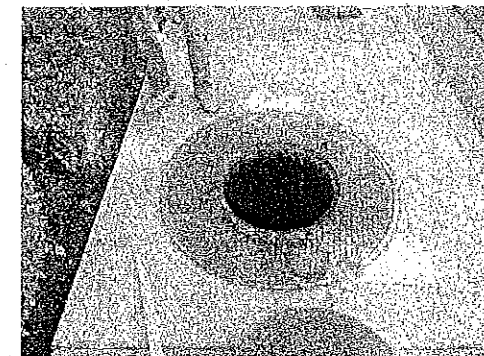
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PLAN

SCALE IN FEET

- NOTES:
- EXISTING RCP TRUNK HAS COAL TAR LINING THAT IS FAILING. PRELINER REQUIRED.
 - CONTRACTOR SHALL REMOVE FAILING (HANGING) GASKETS PRIOR TO INSTALLING CIPP.
 - ALL (E) MAINTENANCE HOLES REFERENCED ON PLAN TO BE REHABILITATED PER DETAIL 1/D01.
 - REPAIR (E) HOLES IN PIPE BEFORE LINING PIPE. NUMBER AND LOCATION OF HOLES TO BE VERIFIED BY CONTRACTOR.
 - REHABILITATE 36 LF USING PRELINER AND CIPP.



SSMH 24J108

DETAIL G

NOTE: MH SURVEY BASED ON NAVD 88, 100 FEET ADDED TO ELEVATIONS FOR CLARITY

BLACK OAK PUE SANITARY SEWER REHABILITATION PROJECT
PROJECT NO. M15002

BLACK OAK PUE STA 101+00 TO STA 107+60

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE: AS SHOWN	APPROVED BY: DATE: 12/22/16	SHEET No. C06
DESIGNED BY: TMD/NM		8 of 15 SHEETS
DRAWN BY: JMR		PROJECT No. 129-14-15-29
CHECKED BY: NAC		
RECORD DWG:		



REV. NO.	DESCRIPTION	DATE	BY	APPRO'D BY



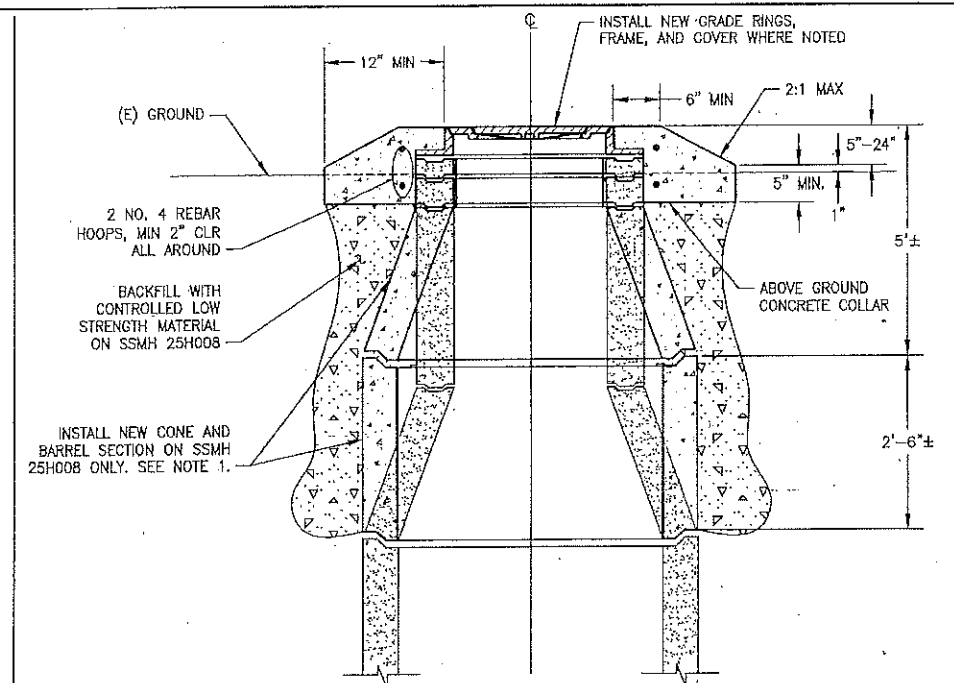
2020 Research Park Drive
Suite 100
Davis, California 95618
(530) 758-5905
FAX (530) 758-5981

5277.70

MANHOLE REHABILITATION TABLE		
DWG #	MH#	REHABILITATION AND REPLACEMENT
C02	25H008	1) REMOVE AND REPLACE GRADE RINGS, CONE AND BARREL SECTION, CLEAN MH, AND RESTORE SURFACE 2) REMOVE AND REPLACE STEEL FRAME AND COVER 3) APPLY EPOXY LINER, INCLUDING GRADE RINGS 4) INSTALL CONCRETE COLLAR
C02	25H009	1) CLEAN MH AND RESTORE SURFACE, 2) REMOVE AND REPLACE STEEL FRAME AND COVER 3) APPLY EPOXY LINER, INCLUDING GRADE RINGS 4) INSTALL CONCRETE COLLAR
C03	25H010	1) CLEAN MH AND RESTORE SURFACE 2) REMOVE AND REPLACE FRAME, COVER, AND GRADE RINGS 3) APPLY EPOXY LINER, INCLUDING GRADE RINGS 4) INSTALL CONCRETE COLLAR
C03	25H021	1) CLEAN MH AND RESTORE SURFACE 2) REMOVE AND REPLACE STEEL FRAME AND COVER 3) APPLY EPOXY LINER, INCLUDING GRADE RINGS 4) INSTALL CONCRETE COLLAR
C04	25H008	1) CLEAN MH AND RESTORE SURFACE 2) REMOVE AND REPLACE FRAME, COVER, AND GRADE RINGS 3) APPLY EPOXY LINER, INCLUDING GRADE RINGS 4) INSTALL CONCRETE COLLAR
C04	25H005	1) CLEAN MH, RESTORE SURFACE 2) REMOVE AND REPLACE FRAME, COVER, AND GRADE RINGS 3) APPLY EPOXY LINER, INCLUDING GRADE RINGS 4) INSTALL CONCRETE COLLAR
C05	24J108	1) CONFIRM IF 12" SS HAS BEEN ABANDONED. IF NOT ABANDONED, FILL WITH SAND AND PLACE CONCRETE CAP TO ABANDON IN PLACE. 2) CLEAN MH, RESTORE SURFACE, AND APPLY EPOXY LINER, INCLUDING THE BRICK GRADE RING 3) FRAME AND COLLAR TO REMAIN

MANHOLE REHABILITATION TABLE

DETAIL 1
VAR

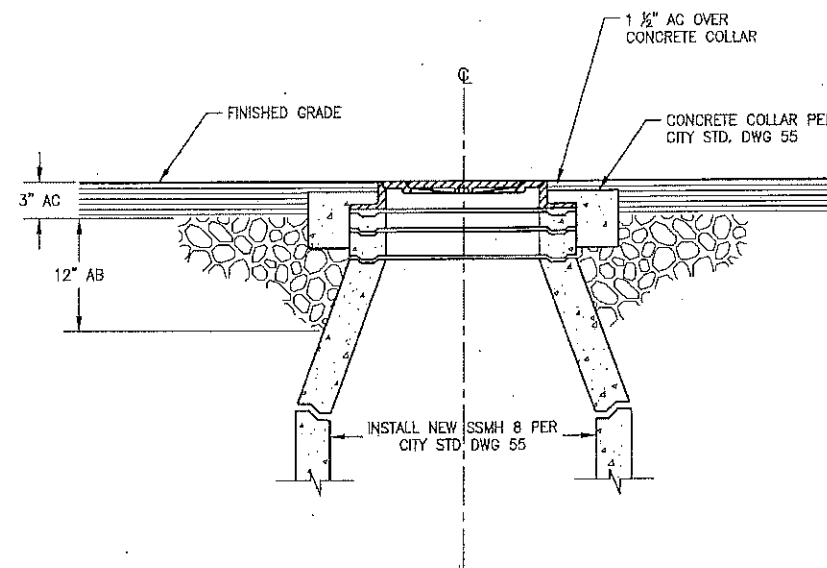


CONCRETE COLLAR FOR ABOVE GROUND MH FRAMES IN BLACK OAK EASEMENT

DETAIL 2
VAR

NOTES:
1. INSTALLATION OF NEW CONE AND BARREL FOR SSMH 25H008 WILL NOT BE ALLOWED BETWEEN NOVEMBER 1 TO APRIL 15.

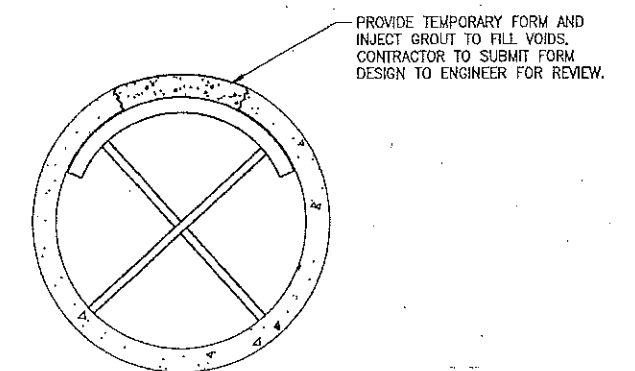
NOT TO SCALE



PARKING LOT REPAIR AROUND SSMH 8

DETAIL 3
C05

NOT TO SCALE



SPOT REPAIRS BETWEEN STATIONS 107+00± AND 107+50±

DETAIL 4
C05

NOT TO SCALE

BLACK OAK PUE SANITARY SEWER
REHABILITATION PROJECT
PROJECT NO. M15002

CIVIL DETAILS 1

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

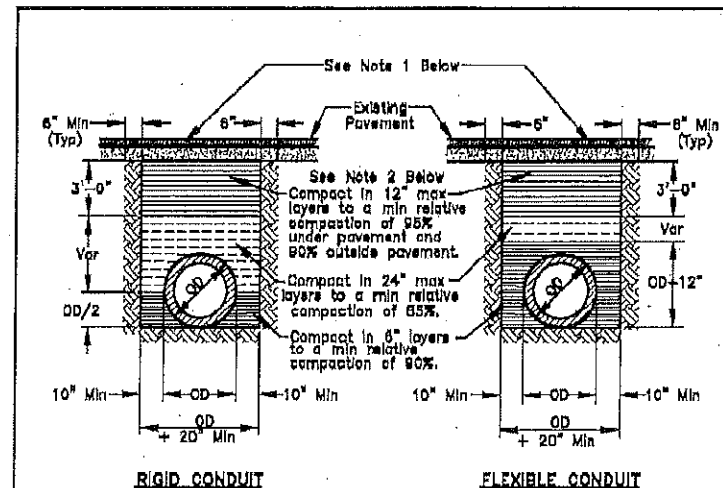
SCALE: AS SHOWN	APPROVED BY: DATE: 12/22/16	SHEET No.
DESIGNED BY: TWO/NH		D01
DRAWN BY: JRR		9 of 15 SHEETS
CHECKED BY: NAM		PROJECT No. 129-14-18-29
RECORD Dwg.:	CITY ENGINEER, STOCKTON, CA	



REV. NO.	DESCRIPTION	DATE	BY	APP'D BY

WEST YOST ASSOCIATES
2020 Research Park Drive
Suite 100
Davis, California 95618
(530) 756-5905
FAX (530) 756-5961

5277.80



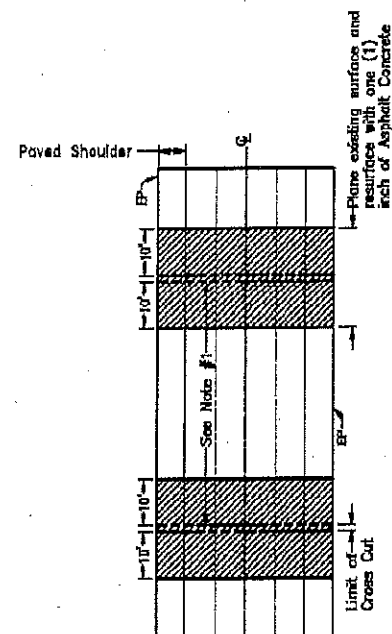
NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.

<p>Working for YOU</p>	<p>TYPICAL TRENCH BACKFILL</p> <p>COUNTY OF SAN JOAQUIN</p> <p>DEPARTMENT OF PUBLIC WORKS</p>	Approved by:	<i>Thomas M. Bess</i>
		Rev. Description	Date
<p>Date: DEC 2014</p>		Std. Dwg. No.	R-29

NOTES:

1. If the distance between cross-cuts are less than 150' the entire area between cross-cuts shall be planed and resurfaced with one (1) inch of Asphalt Concrete.
2. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
3. Resurfacing for Bell Holes shall meet these requirements. If excavation occurs within the shoulder or lane, only that area shall be resurfaced as shown.
4. If cross-cutting is performed on Local Roads at intervals less than 150' a Seal Coat for that half of the roadway containing the trench can be used in lieu of resurfacing. Section 2-5.03 (B-2).

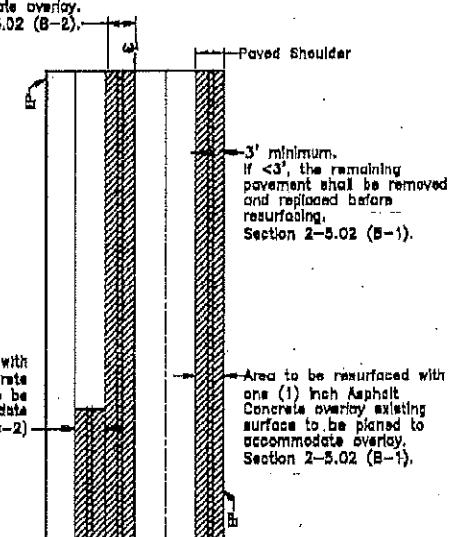


<p>Working for YOU</p>	<p>TRENCH CUTTING POLICY CROSS CUTTING OF COUNTY ROADWAYS</p> <p>COUNTY OF SAN JOAQUIN</p> <p>DEPARTMENT OF PUBLIC WORKS</p>	Approved by:	<i>Michael Aljij</i>
		Rev. Description	Date
<p>Date: MAY 2015</p>		Std. Dwg. No.	R-36

NOTES:

1. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
2. If longitudinal cuts are required on a Local Road a Seal Coat can be used for that half of the roadway containing the trench. Section 2-5.03 (B-1).

Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed, to accommodate overlay. Section 2-5.02 (B-2).



<p>Working for YOU</p>	<p>TRENCH CUTTING POLICY LONGITUDINAL CUTTING OF COUNTY ROADWAYS</p> <p>COUNTY OF SAN JOAQUIN</p> <p>DEPARTMENT OF PUBLIC WORKS</p>	Approved by:	<i>Michael Aljij</i>
		Rev. Description	Date
<p>Date: MAY 2015</p>		Std. Dwg. No.	R-37

Underground Service Alert

TWO DAYS BEFORE YOU DIG

Call TOLL FREE: 1-800-277-2800



REV. NO.	DESCRIPTION	DATE	BY	APPROVED BY

WEST YOST ASSOCIATES

2020 Research Park Drive
Suite 100
Davis, California 95618
(530) 756-5905
FAX (530) 756-5991

<p>BLACK OAK PUE SANITARY SEWER REHABILITATION PROJECT</p> <p>PROJECT NO. M15002</p>	
<p>CIVIL DETAILS 2</p>	
<p>DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA</p>	
<p>SCALE: AS SHOWN</p> <p>DESIGNED BY: TMD/NM</p> <p>DRAWN BY: JRR</p> <p>CHECKED BY: NAM</p> <p>RECORD Dwg.: <i>[Signature]</i></p>	<p>APPROVED BY: <i>[Signature]</i></p> <p>DATE: 12/22/16</p> <p>SHEET No. 002</p> <p>10 of 18 SHEETS</p> <p>PROJECT No. 129-14-15-29</p>

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NA Clients\128 Stockton\14-15-30 Black Oak SS Rehab\CAD Production\12814-15-30-B01.dwg 12-22-16 10:38:04 AM bnf:mf



LEGEND	
ANTICIPATED PUMP STATION	PS#
EXISTING MH	⊙
NEW MH	⊙
EXISTING SEWER LINE	48" SS
ANTICIPATED BYPASS LINES (BELOW GROUND)	---
ANTICIPATED BYPASS LINES (ABOVE GROUND)	---
CAPACITY OF SEWER FLOWING FULL	X.XX MGD
ANTICIPATED DISCHARGE LOCATION	DISCH#

- NOTES:
- THIS SHEET IS FOR CONTRACTOR'S INFORMATION ONLY. DIAMETER AND LENGTH OF BYPASS, EQUIPMENT LOCATION AND SETUP SHALL BE DETERMINED BY CONTRACTOR. CONTRACTOR SHALL SUBMIT THEIR OWN DETAILED BYPASS PLAN PER THE CONTRACT SPECIFICATIONS FOR REVIEW AND WRITTEN APPROVAL BY THE CITY PRIOR TO THE START OF ANY CONSTRUCTION.
 - ALL PIPING ASSOCIATED WITH BYPASS PUMPING SETUP LOCATED IN ROADWAY SHALL NOT IMPEDE THE FLOW OF TRAFFIC.
 - SEE SHEET B03 FOR ADDITIONAL BYPASS DETAILS AND SEWAGE FLOW CONTROL SYSTEM NOTES.
 - SEE C SHEETS FOR LOCATIONS OF UNDERGROUND UTILITIES. UTILITIES IN SWAIN ROAD AND PERSHING AVE UNKNOWN. CONTRACTOR TO DETERMINE BYPASS PIPELINE LOCATIONS FOLLOWING USA MARK-OUT.
 - REMOVE AND REPLACE EXISTING FENCE/GATE AS NEEDED FOR INSTALLATION OF BYPASS LINES. FENCE TO REMAIN IN PLACE DURING BYPASSING.
 - CONTRACTOR TO REMOVE VEGETATION LESS THAN 16-INCHES IN DIAMETER AS NECESSARY TO PERFORM WORK. TREE TRIMMING AND REMOVAL SHALL BE PERFORMED UNDER DIRECTION OF A CERTIFIED ARBORIST. GRIND STUMPS OF ALL REMOVED TREES.
 - CONTRACTOR TO PROVIDE TWO-WAY TRAFFIC AT ALL TIMES ALONG SWAIN ROAD BETWEEN ALEXANDRIA PLACE AND PERSHING AVENUE WHEN SCHOOL IS IN SESSION.
 - BACKFILL AND SURFACE RESTORATION IN COUNTY RIGHT OF WAY SHALL BE PERFORMED IN ACCORDANCE WITH COUNTY STANDARD PLANS AND SPECIFICATIONS.

ANTICIPATED BYPASS PUMP STATIONS	
MAINLINE PS1	FOR LINER INSTALLATION FROM SSMH 24J108 TO SSMH 24H079
SIDELINE SB1	
SIDELINE SB2	
SIDELINE SB3	
SIDELINE SB4	
DISCH1	ANTICIPATED DISCHARGE LOCATION 1

NOTE: MH SURVEY BASED ON NAVD 88, 100 FEET ADDED TO ELEVATIONS FOR CLARITY

BLACK OAK PUE SANITARY SEWER REHABILITATION PROJECT PROJECT NO. M15002	
TEMPORARY BYPASS PLAN	
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA	
SCALE: AS SHOWN	APPROVED BY: DATE: 12/22/16
DESIGNED BY: TWD/NA	SHEET No. B01
DRAWN BY: JRR	11 of 15 SHEETS
CHECKED BY: NAM	PROJECT No. 129-14-15-29
RECORD Dwg.:	CITY ENGINEER, STOCKTON, CA

Underground Service Alert

TWO DAYS BEFORE YOU DIG

Call TOLL FREE: 1-800-277-2600

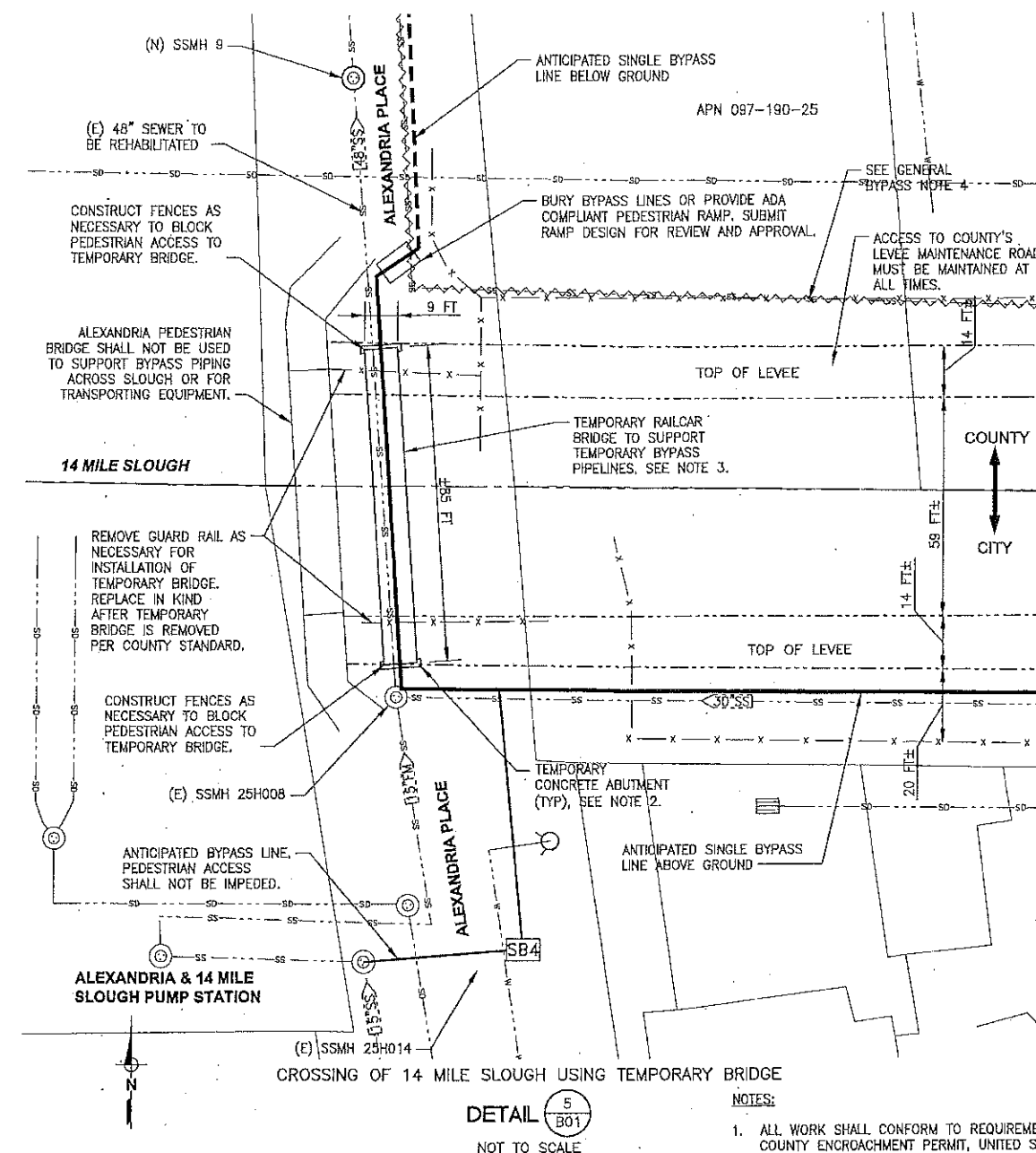


REV. NO.	DESCRIPTION	DATE	BY	APPR'D BY

WEST YOST ASSOCIATES

2020 Research Park Drive
Suite 100
Davis, California 95618

(530) 756-5905
FAX (530) 766-5991



GENERAL BYPASS NOTES:

- THIS SHEET IS FOR CONTRACTORS INFORMATION ONLY. DIAMETER AND LENGTH OF BYPASS, EQUIPMENT LOCATION AND SETUP SHALL BE DETERMINED BY CONTRACTOR. CONTRACTOR SHALL SUBMIT THEIR OWN DETAILED BYPASS PLAN PER THE CONTRACT SPECIFICATIONS FOR REVIEW AND WRITTEN APPROVAL BY THE CITY PRIOR TO THE START OF ANY CONSTRUCTION.
- ALL PIPING ASSOCIATED WITH BYPASS PUMPING SETUP LOCATED IN ROADWAY SHALL NOT IMPEDE THE FLOW OF TRAFFIC.
- SEE SHEET B03 FOR ADDITIONAL BYPASS DETAILS AND SEWAGE FLOW CONTROL NOTES.
- SEE C SHEETS FOR LOCATIONS OF UNDERGROUND UTILITIES.
- LOCATION OF ABANDONED 8" SEWER LINE IS UNKNOWN.

NOTES:

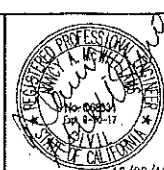
- ALL WORK SHALL CONFORM TO REQUIREMENTS LISTED IN CVFP BOARD PERMIT, COUNTY ENCROACHMENT PERMIT, UNITED STATES ARMY CORPS OF ENGINEERS PERMIT, CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD PERMIT, AND CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE AGREEMENT, INCLUDING:
 - NO CONSTRUCTION WORK OF ANY KIND SHALL OCCUR DURING THE FLOOD SEASON FROM NOVEMBER 1 TO APRIL 15 WITHOUT PRIOR APPROVAL OF THE CVFP BOARD.
 - CONTRACTOR SHALL COORDINATE WITH THE CVFP BOARD AND SUBMIT REQUIRED POSTCARD AT LEAST 10 WORKING DAYS PRIOR TO START OF WORK.
 - NO WORK SHALL OCCUR WITHIN THE CHANNEL OR ON WATER SIDE OF LEVEE.
 - WORK PERIOD RESTRICTED TO PERIOD OF DRY WEATHER OR LOW RAINFALL.
 - CONTRACTOR SHALL COORDINATE WITH THE CITY TO PERFORM NESTING BIRD SURVEY NO LESS THAN TWO WEEKS AND NO MORE THAN 30 DAYS BEFORE CONSTRUCTION.
 - NO WORK WILL BE ALLOWED WITHIN 200 FEET OF A NESTING BIRD BETWEEN MARCH 1 AND SEPTEMBER 1.
 - CONTRACTOR SHALL NOTIFY THE CDFW 2 DAYS PRIOR TO BEGINNING WORK.
 - CONTRACTOR SHALL SUBMIT PHOTOS OF PROJECT ACTIVITIES WITHIN STREAM TO THE CITY FOR CDFW WITHIN 5 DAYS OF PROJECT COMPLETION.
- TEMPORARY CONCRETE ABUTMENTS SHALL BE PLACED DIRECTLY ON TOP OF THE GROUND SURFACE. IF LEVELING IS REQUIRED, BUILD UP LOW END. NO EXCAVATION WITHIN LEVEES WILL BE ALLOWED.
- RAILCAR OR TEMPORARY BRIDGE TO SPAN ENTIRE WIDTH OF SLOUGH. CONTRACTOR TO PROVIDE DESIGN AND CALCULATIONS SIGNED BY ENGINEER LICENSED IN THE STATE OF CALIFORNIA SHOWING STRUCTURAL SUPPORT FOR WEIGHT OF BYPASS EQUIPMENT PROPOSED FOR THE WORK.
- INSTALL FENCING ON TEMPORARY BRIDGE TO RESTRICT PUBLIC ACCESS.

BLACK OAK PUE SANITARY SEWER REHABILITATION PROJECT PROJECT NO. M15002

BYPASS DETAIL 1

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

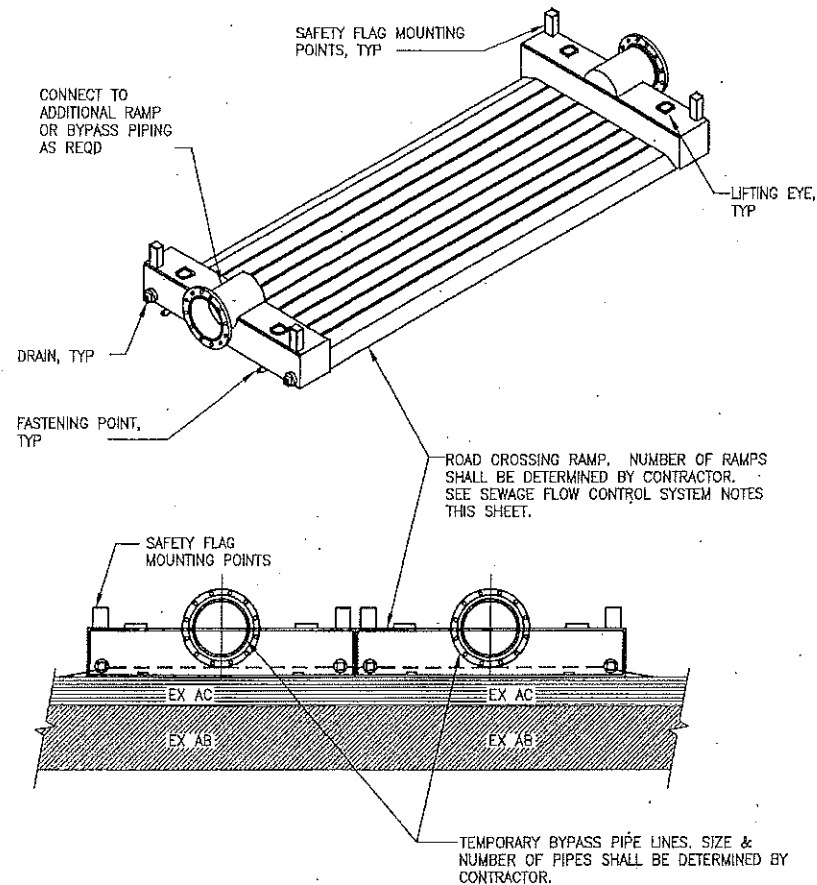
SCALE: AS SHOWN	APPROVED BY: DATE: 2/22/17	SHEET No.
DESIGNED BY: TWD/HM		B02
DRAWN BY: JRR		12 of 15 SHEETS
CHECKED BY: NAM	FOR REFERENCE ONLY	PROJECT No. 129-14-15-29
RECORD Dwg.:	CITY ENGINEER, STOCKTON, CA	



REV. NO.	DESCRIPTION	DATE	BY	APPR'D BY

WEST YOST ASSOCIATES
2020 Research Park Drive
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Davis, California 95618
(530) 756-5805
FAX (530) 756-5991

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NOTES:

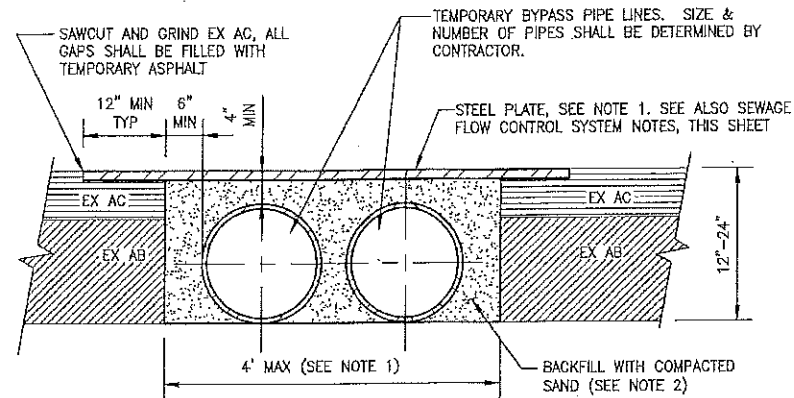
1. THIS IS AN EXAMPLE OF A ROAD CROSSING PIPE RAMP. ACTUAL RAMPS MAY VARY IN SIZE, STYLE AND/OR DESIGN. PROVIDE SEPARATE RAMPS FOR EACH LANE OF TRAFFIC. PROVIDE SEPARATE RAMPS FOR PEDESTRIAN TRAFFIC, IF REQUIRED BY AGENCY HAVING JURISDICTION. RAMP LAYOUT SHALL BE INCLUDED FOR APPROVAL AS PART OF THE TRAFFIC CONTROL PLAN.
2. CONTRACTOR SHALL SUBMIT DRAWINGS FOR RAMP INSTALLATIONS WITH BYPASS PUMPING PLANS AND TRAFFIC CONTROL PLANS TO THE CITY AND AGENCY HAVING JURISDICTION FOR APPROVAL AS SPECIFIED IN SPECIFICATION SECTION 74. RAMPS ALLOWED ON SIDE STREETS ONLY WITH APPROVAL BY THE AGENCY HAVING JURISDICTION.
3. ROAD CROSSING RAMP SHALL BE H20 TRAFFIC RATED AND SHALL BE RATED FOR POSTED SPEED LIMIT.
4. LOCATION OF RAMPS, BARRICADES, SIGNAGE, ETC SHALL BE SHOWN ON THE TRAFFIC CONTROL PLAN.
5. CONTRACTOR SHALL SECURE RAMP TO PREVENT SLIDING AND EXCESS NOISE CREATED FROM VEHICULAR TRAFFIC.
6. RAMP SHALL HAVE PRESSURE RATING SUFFICIENT TO HANDLE BYPASS PUMP PRESSURES.
7. CONTRACTOR SHALL LIMIT THE DISTURBANCE TO PAVEMENT CAUSED BY THE INSTALLATION OF THE RAMPS. IF DAMAGED, CONTRACTOR SHALL RESTORE PAVEMENT AS SPECIFIED IN SPECIFICATION SECTION 5.
8. PEDESTRIAN AND/OR BIKE TRAFFIC SHALL NOT BE IMPEDED AT ANY SIDEWALK OR BIKE PATH LOCATION. RAMPS SHALL BE INSTALLED TO MAINTAIN ACCESS.

ABOVE GROUND BYPASS PIPING RAMP

DETAIL 6
VAR
NOT TO SCALE

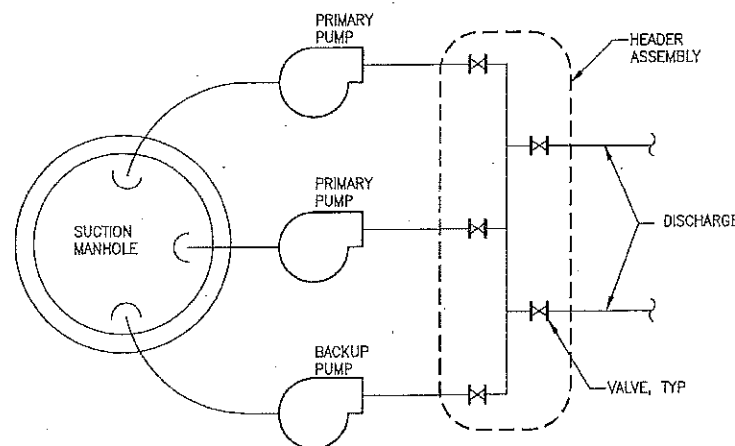
NOTES:

1. 1" STEEL PLATES REQUIRED FOR ALL TRENCHES 4' WIDE OR LESS. CONTRACTOR SHALL PROVIDE DESIGN CALCULATIONS, STAMPED BY ENGINEER REGISTERED IN THE STATE OF CALIFORNIA FOR PLATES SPANNING WIDTH GREATER THAN 4'.
2. BACKFILL WITH COMPACTED SAND MAY BE OMITTED UNDER THE FOLLOWING CONDITIONS:
 - A. TRENCH IS DETERMINED TO BE STABLE BY A COMPETENT PERSON OR PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR.
 - B. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT PAVEMENT DUE TO TRENCH FAILURE.
 - C. TRENCHES PARALLEL TO STREET SHALL BE LOCATED AS CLOSE AS POSSIBLE TO LIP OF GUTTER AND NOT IN WHEEL PATH.



BELOW GROUND BYPASS PIPING

DETAIL 7
VAR
NOT TO SCALE



NOTES:

1. BACKUP PUMP MUST MEET SAME SPECIFICATIONS AS LARGEST PRIMARY PUMP.
2. PUMPS AND BYPASS PIPELINES TO BE SIZED BY CONTRACTOR AND APPROVED BY CITY ENGINEER.
3. THE NUMBER OF PUMPS SHOWN IS APPROXIMATE.

TYPICAL BYPASS HEADER ASSEMBLY

DETAIL 8
VAR
NOT TO SCALE

SEWAGE FLOW CONTROL SYSTEM NOTES:

1. ALL SEWAGE FLOW CONTROL SHALL BE PERFORMED BY CONTRACTOR AS SPECIFIED IN SPECIFICATION SECTION 74. ALL BYPASS PLANS SHALL BE SUBMITTED FOR APPROVAL WITHIN THREE (3) WEEKS OF NOTICE TO PROCEED. DIVERSION OF THE FLOW UPSTREAM OF WORK SHALL BE PROVIDED BY THE CONTRACTOR.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAY RAMPS, SIDEWALKS, SIDEWALK TRANSITIONS, CROSSWALKS, STREET CROSSINGS, AND OTHER LOCATIONS TO ALLOW UNOBSTRUCTED CROSSINGS BY PEDESTRIANS, BICYCLES, AND VEHICLES. USE OF BYPASS ROAD CROSSING PIPE RAMPS WILL BE ON A CASE BY CASE BASIS AND SUBJECT TO CITY OR COUNTY APPROVAL. PEDESTRIAN RAMPS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT REQUIREMENTS. WHERE BYPASS ROAD CROSSING PIPE RAMPS ARE USED, THEY SHALL BE INSTALLED PER DETAIL 6 ON THIS SHEET. WHERE PIPE MUST BE BELOW GROUND, IT SHALL BE BURIED PER DETAIL 7 ON THIS SHEET.
3. SEWAGE FLOW CONTROL EQUIPMENT, PIPING AND PROTECTION MEASURES SHALL BE SHOWN ON CONTRACTOR'S TRAFFIC CONTROL PLANS.
4. MULTIPLE PLATES SHALL BE SET FLUSH TO THE SUBSEQUENT PLATES, BUTTED TO EACH OTHER, AND TACK WELDED TOGETHER.
5. STEEL PLATE BRIDGING SHALL BE INSTALLED TO OPERATE WITH MINIMUM NOISE BY RECESSING PLATES IN PAVEMENT AND FILLING ALL VOIDS WITH CUTBACK.
6. STEEL PLATES USED IN THE TRAVELED WAY SHALL HAVE A SURFACE THAT WAS MANUFACTURED WITH NORMAL COEFFICIENT OF FRICTION (COF) OF 0.35. NON-SKID SURFACES SHALL BE MAINTAINED FOR DURATION OF CONSTRUCTION.
7. BYPASS SYSTEM SHALL BE DESIGNED TO CARRY 100% OF FLOWS SHOWN ON THE DRAWINGS. SEE SPECIFICATION SECTION 74 FOR STANDBY EQUIPMENT REQUIREMENTS.
8. PROTECT ALL ABOVE-GRADE PIPING FOR BYPASSING SIDE SEWERS (SEWERS LESS THAN 15" DIAMETER) WITH TYPE II BARRICADES WITH FLASHERS CONFORMING TO CALTRANS STANDARD SPECIFICATIONS. PLACE BARRICADES 3- FEET FROM PIPES AND SPACE 25- FEET ON CENTER.
9. PROTECT ALL ABOVE-GRADE PIPING FOR BYPASSING TRUNK LINE SEWERS (SEWERS 15-INCH DIAMETER OR GREATER) IN ROADWAYS WITH K-RAIL OR APPROVED ALTERNATE. PROVIDE TAPER AND CRASH CUSHIONS PER CALIFORNIA MUTCD. K-RAIL NOT REQUIRED FOR BYPASS PIPELINES LOCATED ON MEDIANS.
10. TRENCHING SHALL OCCUR IN ACCORDANCE WITH CITY OF STOCKTON STANDARDS WITHIN CITY LIMITS AND IN ACCORDANCE WITH COUNTY STANDARDS WITHIN COUNTY LIMITS. AFTER REMOVAL OF PIPING, CONTRACTOR SHALL BACKFILL TRENCH AND RESTORE PAVEMENT IN ACCORDANCE WITH CITY OF STOCKTON STANDARD SPECIFICATIONS AND STANDARD DWG 50 WITHIN-CITY LIMITS AND IN ACCORDANCE WITH SAN JOAQUIN COUNTY SPECIFICATIONS AND STANDARD DWG R-29 WITHIN COUNTY LIMITS, SEE COUNTY DETAILS ON D02.
11. SEE SPECIFICATION SECTION 74 FOR REQUIREMENTS FOR NOISE-ATTENUATED GENERATORS & PUMPING EQUIPMENT.
12. CONTRACTOR TO INSTALL PIPES TO AVOID IMMOVABLE OBJECTS SUCH AS TREES, SIGNS, AND POLES.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING ABOVE GROUND PIPELINES TO ENSURE THEY STAY IN PLACE.
14. SURCHARGING MORE THAN 3 FEET ABOVE CROWN WILL NOT BE ALLOWED.
15. ALL BYPASS PIPING SHALL BE 100% LEAK FREE.

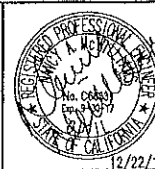
BLACK OAK PUE SANITARY SEWER
REHABILITATION PROJECT
PROJECT NO. M15002

BYPASS DETAIL 2

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE: AS SHOWN	APPROVED BY: DATE: 2/22/17	SHEET No.
DESIGNED BY: TMD/NA		B03
DRAWN BY: JRR		13 of 15 SHEETS
CHECKED BY: NAM		PROJECT No. 129-14-15-29
RECORD DWG:		

FOR REFERENCE ONLY
CITY ENGINEER,
STOCKTON, CA



REV. NO.	DESCRIPTION	DATE	BY	APPROVED BY



2020 Research Park Drive
Suite 100
Davis, California 95618
(530) 756-5905
FAX (530) 756-5991

5277.120

TRAFFIC CONTROL GENERAL NOTES:

1. TRAFFIC CONTROL PLANS ARE ACCURATE FOR TRAFFIC CONTROL WORK ONLY.
2. TRAFFIC CONTROL PLANS ARE FOR CIPP LINER INSTALLATION AND CONTRACTOR'S REFERENCE ONLY. FULL TRAFFIC CONTROL PLANS FOR ALL PHASES OF WORK SHALL BE SUBMITTED WITH CONTRACTOR'S BYPASS PLANS.
3. THE CONTRACTOR SHALL MAINTAIN SOLE RESPONSIBILITY FOR THE SAFETY OF THE TRAVELING PUBLIC AND THE CONTRACTOR'S WORKERS THROUGHOUT THE CONSTRUCTION ZONE AT ALL TIMES AND THIS RESPONSIBILITY IS CONTINUOUS 24 HOURS A DAY DURING THE DURATION OF CONSTRUCTION. THE CONTRACTOR IS DIRECTED TO CONTACT THE ENGINEER OR THE CITY OF STOCKTON IN THE EVENT OF ANY CONCERN IN THE USE OF THESE PLANS AND SHALL DO SO PRIOR TO INITIATION OR USE OF THESE PLANS.
4. EXISTING ROADWAY WIDTHS WERE APPROXIMATED FROM AERIAL PHOTOGRAPHS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ENOUGH CLEARANCE EXISTS TO PROVIDE MINIMUM 10'-WIDE TRAVEL LANES ON 2-LANE STREETS AND 11'-WIDE TRAVEL LANES ON 4-LANE STREETS WHERE IDENTIFIED OR PROVIDE FLAGGERS.
5. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MOST CURRENT VERSION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD (CA)).
6. THE CONTRACTOR SHALL PROVIDE ADEQUATE ADVANCE NOTICE OF STREET CLOSURES AND/OR DETOURS TO ALL AFFECTED RESIDENTS AND BUSINESS OWNERS AS REQUIRED BY THE CITY OF STOCKTON AND SAN JOAQUIN COUNTY.
7. THE CONTRACTOR SHALL REVIEW THESE TRAFFIC CONTROL PLANS AND SHALL VERIFY THAT ALL OF THE SIGNAGE AND/OR CONTROLS NECESSARY TO COMPLETE THE PROJECT ARE INCLUDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL OF THE NECESSARY SIGNAGE AND/OR CONTROLS AND SHALL HAVE THE COST FOR ALL OF THE NECESSARY SIGNAGE AND/OR CONTROLS (INCLUDING THOSE THAT MAY NOT BE INCLUDED ON THESE PLANS BUT DEEMED NECESSARY BY THE CONTRACTOR) INCLUDED IN THE PRICE FOR THE TRAFFIC CONTROL SYSTEM. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
8. ALL ADVANCE WARNING SIGNS SHALL 1) COMPLY WITH REQUIREMENTS SET FORTH IN THE 2014 MUTCD (CA), 2) MEET CURRENT RETRO-REFLECTIVITY REQUIREMENTS, AND 3) BE EQUIPPED WITH STANDARD ORANGE FLAGS (ORANGE FLAGS SHALL NOT BLOCK THE SIGN FACE).
9. CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY/COORDINATE WITH THE CITY OF STOCKTON, SAN JOAQUIN COUNTY, NEIGHBORHOOD RESIDENTS, POLICE, FIRE, TRANSIT (RTD), SCHOOL DISTRICT, U.S. POSTAL SERVICE, TRASH COMPANY, AND VARIOUS UTILITY COMPANIES PRIOR TO BEGINNING ANY TRAFFIC CONTROL AND CONSTRUCTION.
11. WHEN CONSTRUCTION IS NOT BEING PERFORMED, ALL ROADWAYS SHALL BE RETURNED TO THEIR FULL TRAFFIC USAGE BY PLATING OPEN TRENCHES AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES USED FOR TRAFFIC CONTROL OR DETOUR.
12. ALL CONES SHALL MEET MINIMUM HEIGHT REQUIREMENTS AND BE FITTED WITH RETROREFLECTIVE BANDS AS SPECIFIED IN MUTCD (CA).
13. CONTRACTOR SHALL RESTORE ANY AND ALL STRIPING, PAVEMENT MARKINGS, SIGNAGE, AND TRAFFIC SIGNAL LOOPS DAMAGED OR REMOVED DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
14. "NO PARKING" SIGNS SHALL BE INSTALLED WHERE WARRANTED.
15. CONTRACTOR WILL BE RESPONSIBLE FOR OVERNIGHT LIGHTING.
16. LOCATION OF CONSTRUCTION SIGNS ARE APPROXIMATE. EXACT LOCATIONS TO BE APPROVED BY CITY INSPECTOR.
17. FIELD CONDITIONS MAY WARRANT MODIFICATIONS TO THE TRAFFIC CONTROL PLANS. ANY MODIFICATION IS SUBJECT TO CITY APPROVAL.
18. UNLESS OTHERWISE SPECIFIED IN THE PROJECT SPECIFICATIONS, ALL TEMPORARY WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND.
19. ANY PAVEMENT DELINEATION DAMAGED OR REMOVED SHALL BE RESTORED AND STRIPING SHALL BE RE-INSTALLED TO THE NEAREST PUBLIC STREET (IN BOTH DIRECTIONS).
20. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO PROVIDE DRIVEWAY ACCESS ADJACENT TO LANE CLOSURES. SIGNS ON ROADWAY SHALL NOT BLOCK DRIVEWAYS OR SITE DISTANCE FOR EXISTING DRIVEWAYS.

APPROACHING SPEED (MPH)	MINIMUM L* (FT)	MAX SPACING OF CONES ALONG TAPER** (FT)
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45

*FOR LANE SHIFTS EQUAL TO 12'. FOR LANE SHIFTS OTHER THAN 12' AND SPEEDS LESS THAN OR EQUAL TO 40 MPH USE WS/2/60 WHERE "W" IS THE DISTANCE OF THE LANE SHIFT AND "S" IS THE POSTED SPEED LIMIT.
**UNLESS NOTED OTHERWISE

FROM "TABLE 6C-3" AND "TABLE 6C-4" 2014 MUTCD (CA)

APPROACHING SPEED (MPH)	A (FT)	B (FT)	C (FT)
25 OR LESS	100	100	100
>25 TO 40	250	250	250
MORE THAN 40	350	350	350

FROM "TABLE 6C-1" 2014 MUTCD (CA)

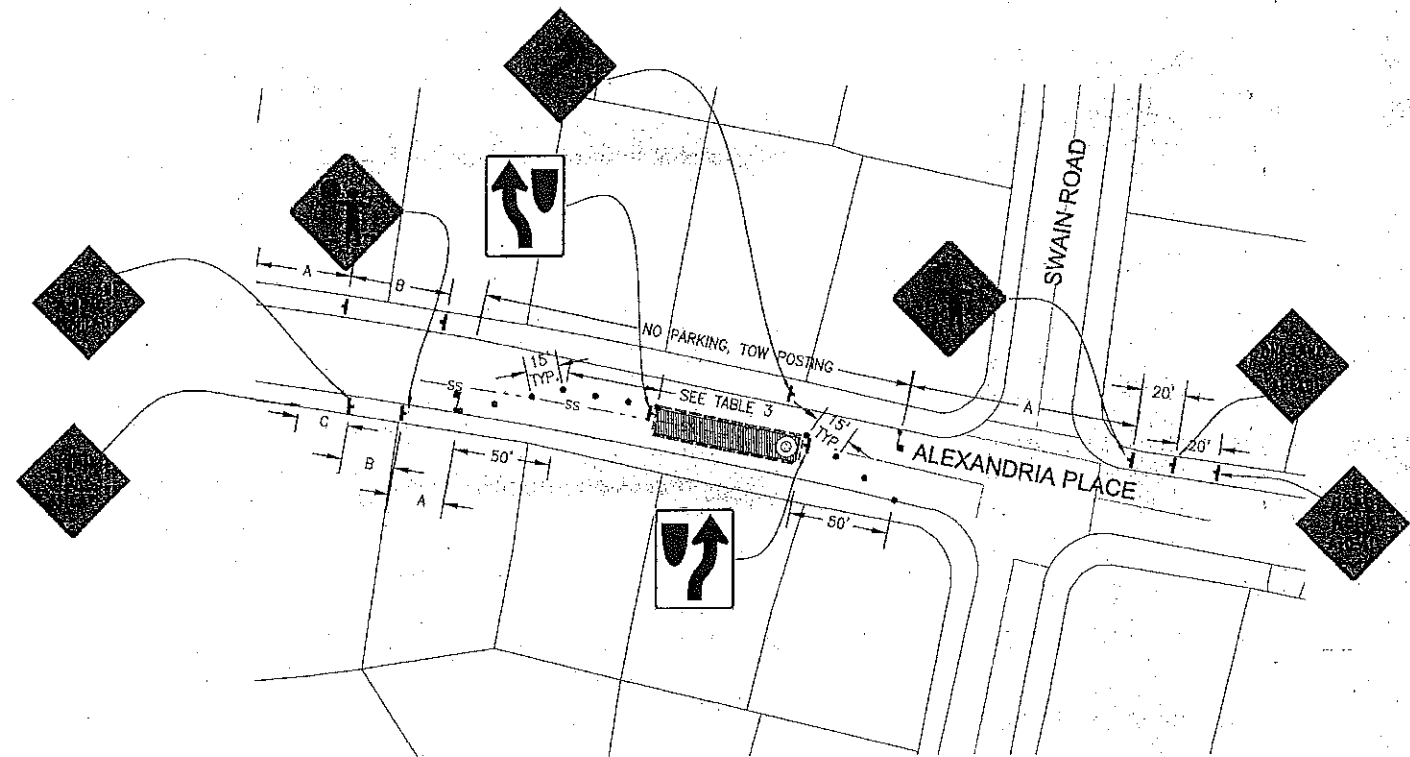
APPROACHING SPEED (MPH)	DISTANCE (FT)
20	115
25	155
30	200
35	250
40	305
45	360
50	425

FROM "TABLE 6E-1" 2014 MUTCD (CA)

LEGEND

- DIRECTION OF TRAVEL
- PORTABLE DELINEATORS
- CONSTRUCTION SIGN
- TYPE III BARRICADE
- FLASHING ARROW SIGN (FAS), TYPE I OR TYPE II
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON
- CHANGEABLE MESSAGE SIGN
- EXISTING STRIPE
- FLAGGER
- WORK AREA/EQUIPMENT SETUP
- BLACK LEGEND ON WHITE BACKGROUND
- SHADED SIGNS SHALL BE A BLACK LEGEND ON ORANGE BACKGROUND.

See revised approved plans attached



ALEXANDRIA PLACE AT SWAIN ROAD

NOT TO SCALE

**BLACK OAK PUE SANITARY SEWER
REHABILITATION PROJECT
PROJECT NO. M15002**

TRAFFIC CONTROL PLAN 1

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE: AS SHOWN	APPROVED BY: DATE: 2/22/16	SHEET No.
DESIGNED BY: TMD/HM		TC01
DRAWN BY: JRR		14 of 15 SHEETS
CHECKED BY: JAU		PROJECT No. 129-14-15-29
RECORD Drawn:	CITY ENGINEER, STOCKTON, CA	

**WEST YOST
ASSOCIATES**
2020 Research Park Drive
Suite 100
Davis, California 95618
(530) 756-5905
FAX (530) 756-5991

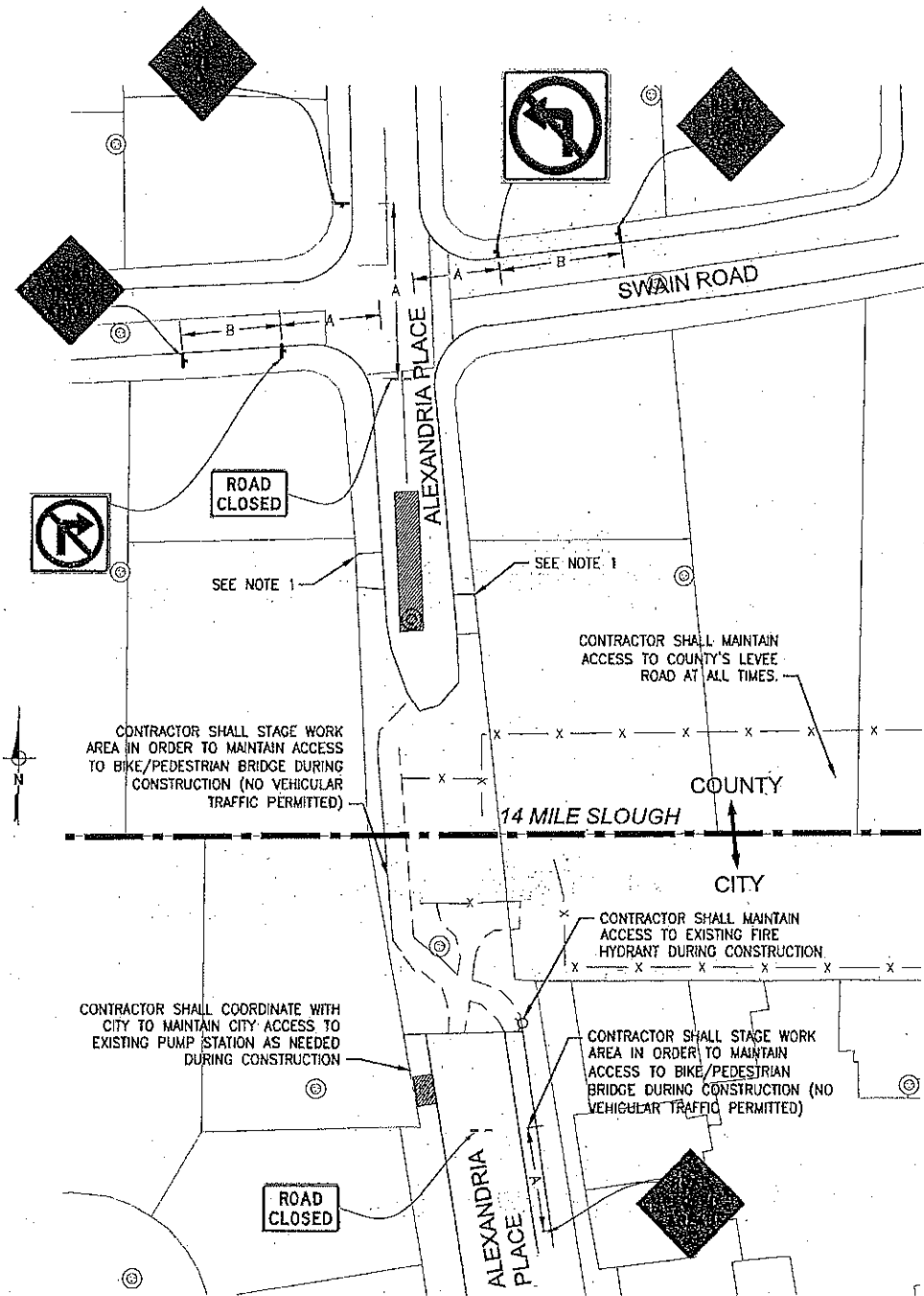


REV. NO.	DESCRIPTION	DATE	BY	APPROVED BY

Underground Service Alert

TWO DAYS
BEFORE
YOU DIG
Call TOLL FREE: 1-800-277-2800

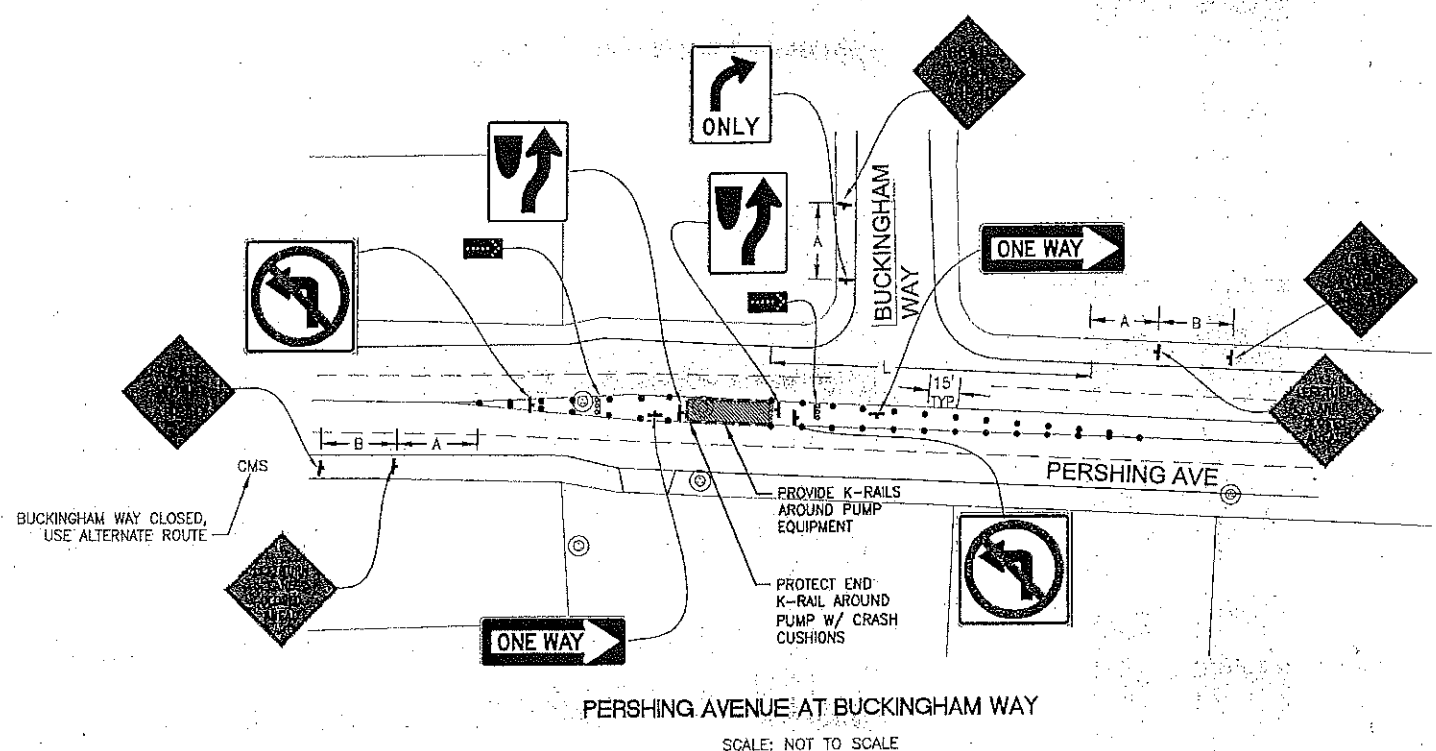
5277.13C



ALEXANDRIA PLACE AT 14-MILE SLOUGH
SCALE: NOT TO SCALE

- NOTES:
1. ACCESS FOR LOCAL AND PEDESTRIAN/BIKE TRAFFIC SHALL BE MAINTAINED. COORDINATE WITH FIRE DEPARTMENT AND LOCAL RESIDENTS AT LEAST TWO WEEKS PRIOR TO ALEXANDRIA PLACE CLOSURE.
 2. SEE SHEET TC01 FOR GENERAL NOTES, TAPER LENGTHS, AND ADVANCE WARNING SIGN DISTANCES.

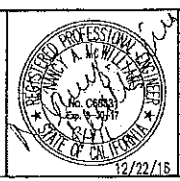
See revised approved plans attached



PERSHING AVENUE AT BUCKINGHAM WAY
SCALE: NOT TO SCALE

BLACK OAK PUE SANITARY SEWER REHABILITATION PROJECT PROJECT NO. M15002	
TRAFFIC CONTROL PLAN 2	
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA	
SCALE: AS SHOWN DESIGNED BY: TMD/WM DRAWN BY: JRR CHECKED BY: NAW RECORD Dwg:	APPROVED BY: DATE: 2/21/17 CITY ENGINEER STOCKTON, CA
SHEET No. TC02 15 of 16 SHEETS PROJECT No. 129-14-15-29	

NO OTHERS IN 129-14-15-29 Black Oak SS Rehab (COW) Production 12914-1530-TC02.dwg 12-22-16 10:41:30 AM jgfrmp

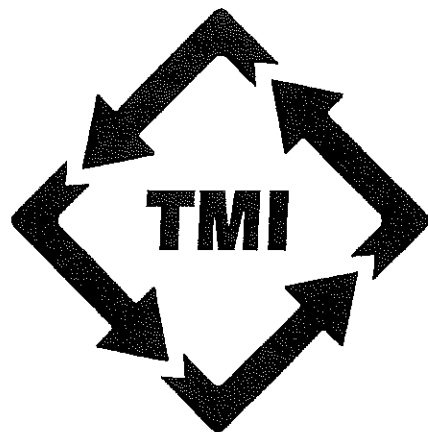


REV. NO.	DESCRIPTION	DATE	BY	APPR'D BY



2020 Research Park Drive
Suite 100
Davis, California 95618
(530) 756-5906
FAX (530) 756-5991

5271.146



**TRAFFIC
MANAGEMENT**
INCORPORATED

INSITUFORM TECHNOLOGIES LLC

GENERAL NOTES

- 1 THIS PLAN SUPPLEMENTED WITH 2014 CA MUTCD.
- 2 THE LOCATION OF THE SIGNS SHOWN ON THE PLAN ARE GUIDELINES AND ACTUAL LOCATION WILL DEPEND UPON ALIGNMENT, GRADE, LOCATION OF THE STREET INTERSECTIONS, AND 85TH PERCENTILE.
- 3 NOTIFY LOCAL LAW ENFORCEMENT, FIRE, AND AMBULANCE COMPANIES WITHIN 72 HOURS BEFORE CONSTRUCTION BEGINS. KEEP OPEN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.
- 4 CONTINUAL MONITORING AND MAINTENANCE OF THE TRAFFIC CONTROL ZONE WILL BE IMPLEMENTED FOR THE PURPOSE OF MAINTAINING EMERGENCY ACCESS, ACCOMMODATION FOR PEDESTRIANS, BICYCLE TRAFFIC AND THE DISABLED.
- 5 PROPER TRAINING OF TRAFFIC CONTROLLERS, PROPER DEVICES & PROPER USE OF THE DEVICES, REQUIRED AT ALL TIMES.
- 6 ALL SIGNS IMPLEMENTED WILL ONLY BE VIEWABLE WHEN IN USE, OTHERWISE ALL WARNING DEVICES ARE TO BE TAKEN DOWN OR COVERED.
- 7 NOTHING ALLOWED IN BUFFER/TRANSITION AREA AT ANY TIME.
- 8 ALL CONFLICTING MARKINGS ARE TO BE REMOVED FOR PROJECTS THAT LAST A TERM OF 3 DAYS OR LONGER.
- 9 SIGNS AND CHANNELIZING DEVICES MUST BE RETRO REFLECTIVE OR ILLUMINATE DURING THE NIGHT. MINIMUM VISIBILITY 1000' (FEET).
- 10 ONLY ONE SIDEWALK WILL BE CLOSED AT A TIME. PEDESTRIAN AND DISABLED ACCESS TO BE MAINTAINED PER 2014 CA MUTCD STANDARDS.
- 11 CONTACT UNDERGROUND SERVICE ALERT (USA) 48 HOURS PRIOR TO ANY EXCAVATION FOR POTENTIAL UTILITY CONFLICTS.

RECOMMENDED ADVANCE WARNING SIGN SPACING TABLE

(CA MUTCD 2014 EDITION TABLE 6C-1, SEE TABLE FOR ADDITIONAL DETAILS)

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (LOW SPEED)-25MPH OR LESS	100	100	100
URBAN (LOW SPEED)-MORE THAN 25MPH TO 40MPH	250	250	250
URBAN (HIGH SPEED)-MORE THAN 40MPH	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1500	2640

LEGEND

- | | | | |
|--|-----------------------------|--|------------------------------|
| | - WORK AREA | | - TYPE-III BARRICADE W/ SIGN |
| | - HIGH LEVEL WARNING DEVICE | | - TYPE-II BARRICADE W/ SIGN |
| | - FLASHING ARROW SIGN (FAS) | | - ADA BARRICADE W/ SIGN |
| | - FLAGGER | | - CHANNELIZATION DEVICE |
| | - EXISTING SIGN | | - SIGN |

VARIOUS LOCATIONS, STOCKTON

WORK AREA TRAFFIC CONTROL: VARIOUS LOCATIONS

CONTACT: TREVOR BOYD
CONTACT: 303-791-7199
JOB NUMBER: 122102 PLAN#: 31222
PERMIT NUMBER:
COVER SHEET SIZE: B SCALE: N.T.S.
DATE: 4/12/2018 PREPARED BY: KE

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C31 # 785804



DEVICE SPACING TABLE

SPEED (MPH)	FORMULA	BUFFER SPACE	MINIMUM TAPER LENGTHS									MAXIMUM CONE SPACING		2014 MUTCD SECTION 6C.04
			10' OFFSET			11' OFFSET			12' OFFSET			LONG	TAPER	SIGN SPACING
			L	$\frac{1}{2}L$	$\frac{1}{3}L$	L	$\frac{1}{2}L$	$\frac{1}{3}L$	L	$\frac{1}{2}L$	$\frac{1}{3}L$			
			MERGE	SHIFT	SHOULDER	MERGE	SHIFT	SHOULDER	MERGE	SHIFT	SHOULDER			
25	$L = \frac{WS^2}{60}$	155'	104'	52'	35'	115'	57'	38'	125'	63'	42'	25'	13'	100'-200'
30		200'	150'	75'	50'	165'	83'	55'	180'	90'	60'	30'	15'	120'-250'
35		250'	204'	102'	68'	225'	112'	75'	245'	123'	82'	35'	18'	140'-280'
40	L=WS	305'	267'	133'	89'	293'	147'	98'	320'	160'	107'	40'	20'	160'-320'
45		360'	450'	225'	150'	495'	248'	165'	540'	270'	180'	45'	23'	360'-540'
50		425'	500'	250'	167'	550'	275'	183'	600'	300'	200'	50'	25'	400'-600'
55		495'	550'	275'	183'	605'	303'	202'	660'	330'	220'	50'	28'	440'-660'
60		570'	600'	300'	200'	660'	330'	220'	720'	360'	240'	50'	30'	480'-720'
65		645'	650'	325'	217'	715'	358'	238'	780'	390'	260'	50'	33'	520'-700'
70		730'	700'	350'	233'	770'	385'	257'	840'	420'	280'	50'	35'	560'-820'

LOW SPEED IS 40 MPH & LESS

HIGH SPEED IS 45 MPH & ABOVE

BOTH ARE BASED ON:

1.) 85TH % TILE OR IF NOT AVAILABLE, THEN USE

2.) POSTED SPEED LIMIT (PSL)

3.) ANTICIPATED SPEED.

S = SPEED

W = WIDTH (OFFSET FROM PATH OF TRAVEL)

L = TAPER LENGTH

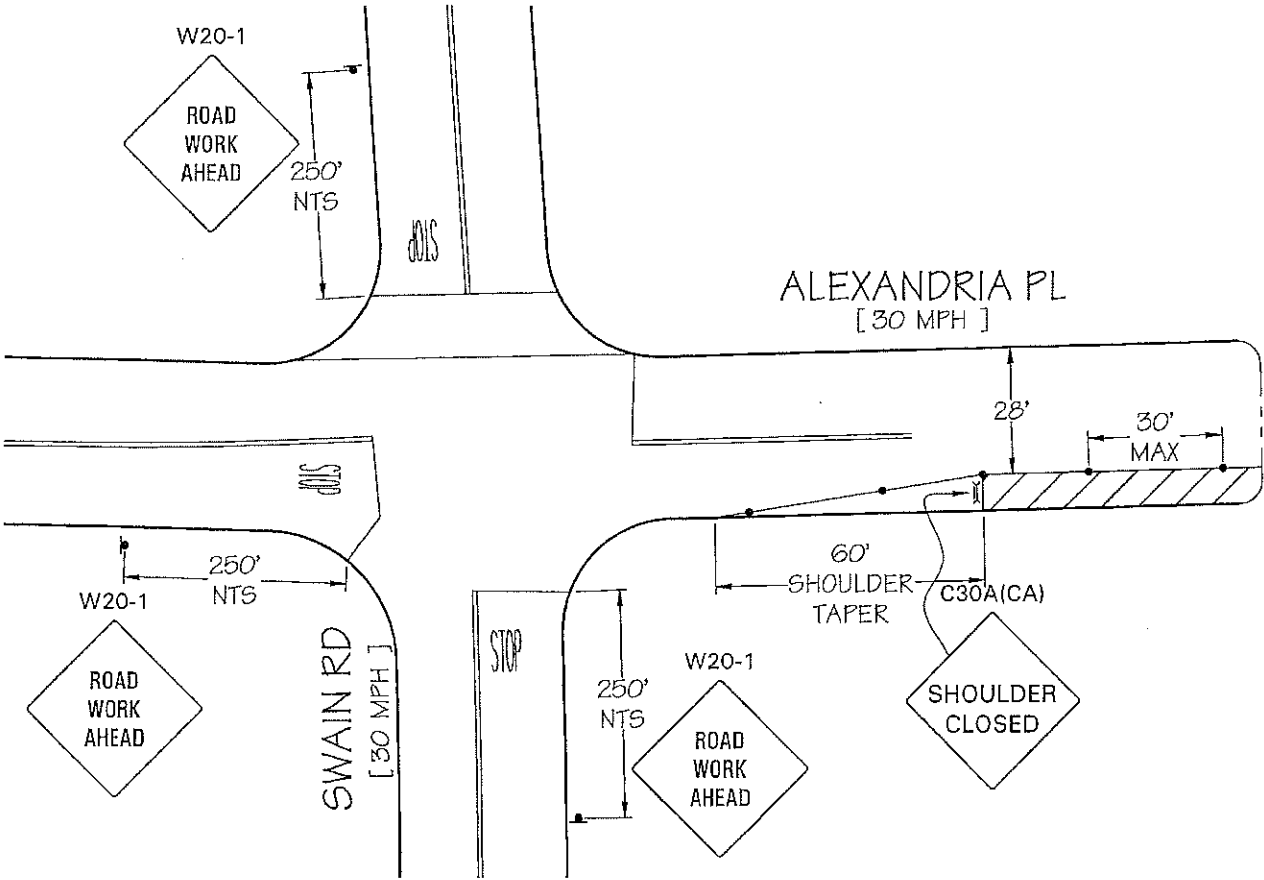
ALL DRIVEWAYS TO REMAIN OPEN UNLESS OTHERWISE INDICATED.

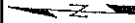











FLAGGER TO ASSIST WITH PEDESTRIAN TRAFFIC.

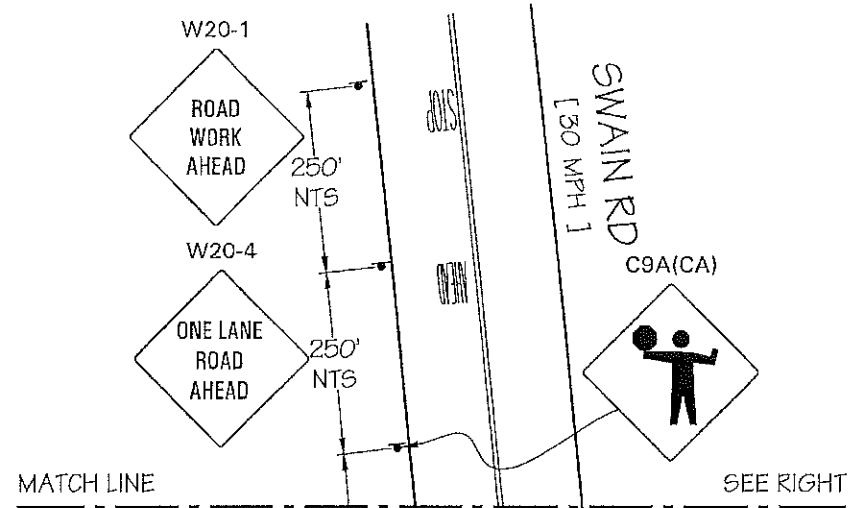
POST TEMPORARY "NO PARKING" IN ALL AREAS AFFECTED BY
WORK ZONE 72 HRS PRIOR TO WORK. NOTIFY ALL AFFECTED
BUSINESSES/RESIDENTS.

ALL CONSTRUCTION SIGNS/DEVICES/MARKINGS NOT PERTINENT TO
CONDITIONS AFTER WORK HOURS MUST BE REMOVED OR
COVERED. STEEL PLATING MUST BE TREATED WITH SKID
RESISTANT FINISH.

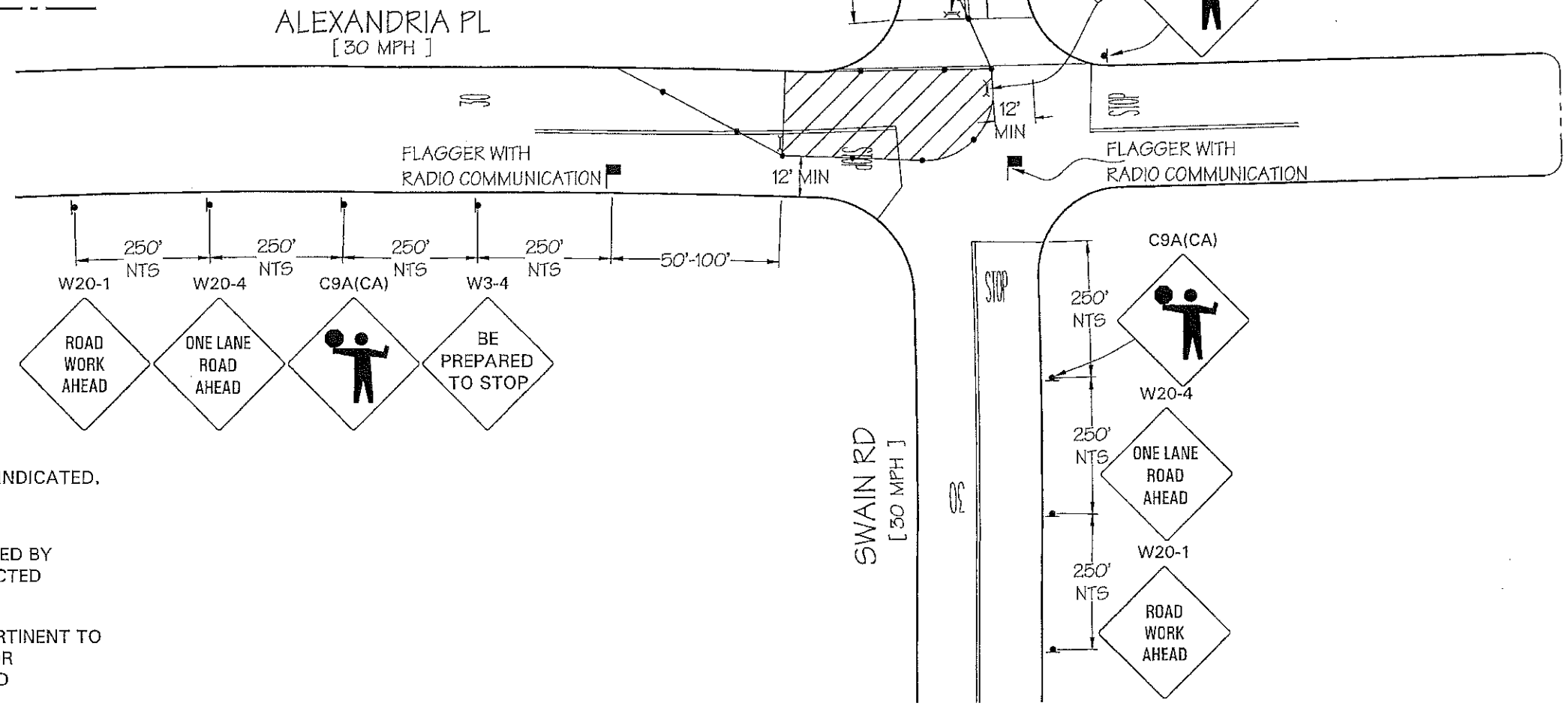
PHASE 1



LEGEND		ADDRESS	WORK AREA TRAFFIC CONTROL: 6009 ALEXANDRIA PL				
 - WORK AREA	 - TYPE-III BARRICADE W/ SIGN	VARIOUS LOCATIONS, STOCKTON	CONTACT: TREVOR BOYD				TRAFFIC MANAGEMENT, INC. <i>California • Great Lakes • New York</i> 800.763.3999 www.trafficmanagement.com Traffic Control Services • Sales & Rentals Permits & Consulting • Engineering • Training C31 # 785804
 - HIGH LEVEL WARNING DEVICE	 - TYPE-II BARRICADE W/ SIGN		CONTACT: 303-791-7199				
 - FLASHING ARROW SIGN (FAS)	 - ADA BARRICADE W/ SIGN		JOB NUMBER: 122102	PLAN#: 31222			
 - FLAGGER	 - CHANNELIZATION DEVICE		PERMIT NUMBER:				
 - EXISTING SIGN	 - SIGN		SHEET 1 OF 12	SIZE: B	SCALE: 1"=40'		
			DATE: 4/12/2018		PREPARED BY: KE		



PHASE 2



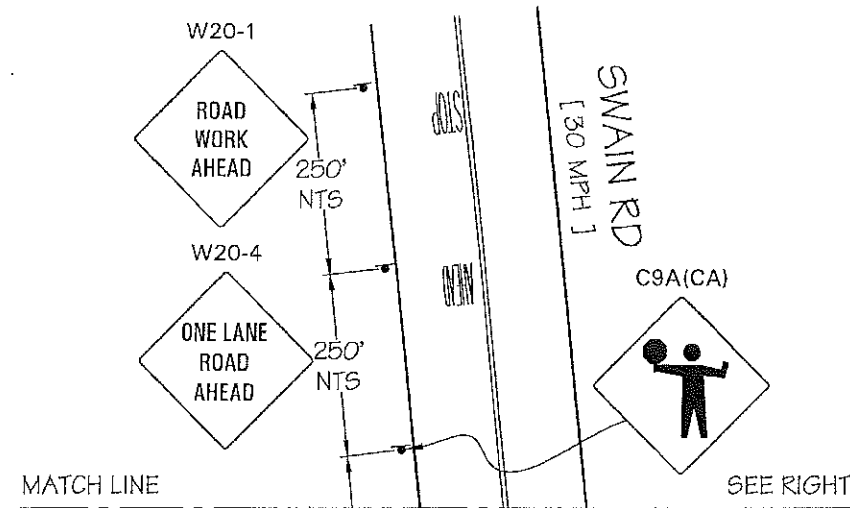
ALL DRIVEWAYS TO REMAIN OPEN UNLESS OTHERWISE INDICATED.

FLAGGER TO ASSIST WITH PEDESTRIAN TRAFFIC.

POST TEMPORARY "NO PARKING" IN ALL AREAS AFFECTED BY WORK ZONE 72 HRS PRIOR TO WORK. NOTIFY ALL AFFECTED BUSINESSES/RESIDENTS.

ALL CONSTRUCTION SIGNS/DEVICES/MARKINGS NOT PERTINENT TO CONDITIONS AFTER WORK HOURS MUST BE REMOVED OR COVERED. STEEL PLATING MUST BE TREATED WITH SKID RESISTANT FINISH.

LEGEND	ADDRESS	WORK AREA TRAFFIC CONTROL: 6009 ALEXANDRIA PL	
<div> <div></div> - WORK AREA <div></div> - TYPE-III BARRICADE W/ SIGN <div></div> - HIGH LEVEL WARNING DEVICE <div></div> - FLASHING ARROW SIGN (FAS) <div></div> - FLAGGER <div></div> - EXISTING SIGN <div></div> - TYPE-II BARRICADE W/ SIGN <div></div> - ADA BARRICADE W/ SIGN <div></div> - CHANNELIZATION DEVICE <div></div> - SIGN </div>	VARIOUS LOCATIONS, STOCKTON	CONTACT: TREVOR BOYD	TRAFFIC MANAGEMENT, INC.
		CONTACT: 303-791-7199	California · Great Lakes · New York
		JOB NUMBER: 122102	800.763.3999
		PLAN#: 31222	www.trafficmanagement.com
		PERMIT NUMBER:	Traffic Control Services - Sales & Rentals
		SHEET 2 OF 12	Permits & Consulting - Engineering - Training
		DATE: 4/12/2018	C31 # 785804
		PREPARED BY: KE	



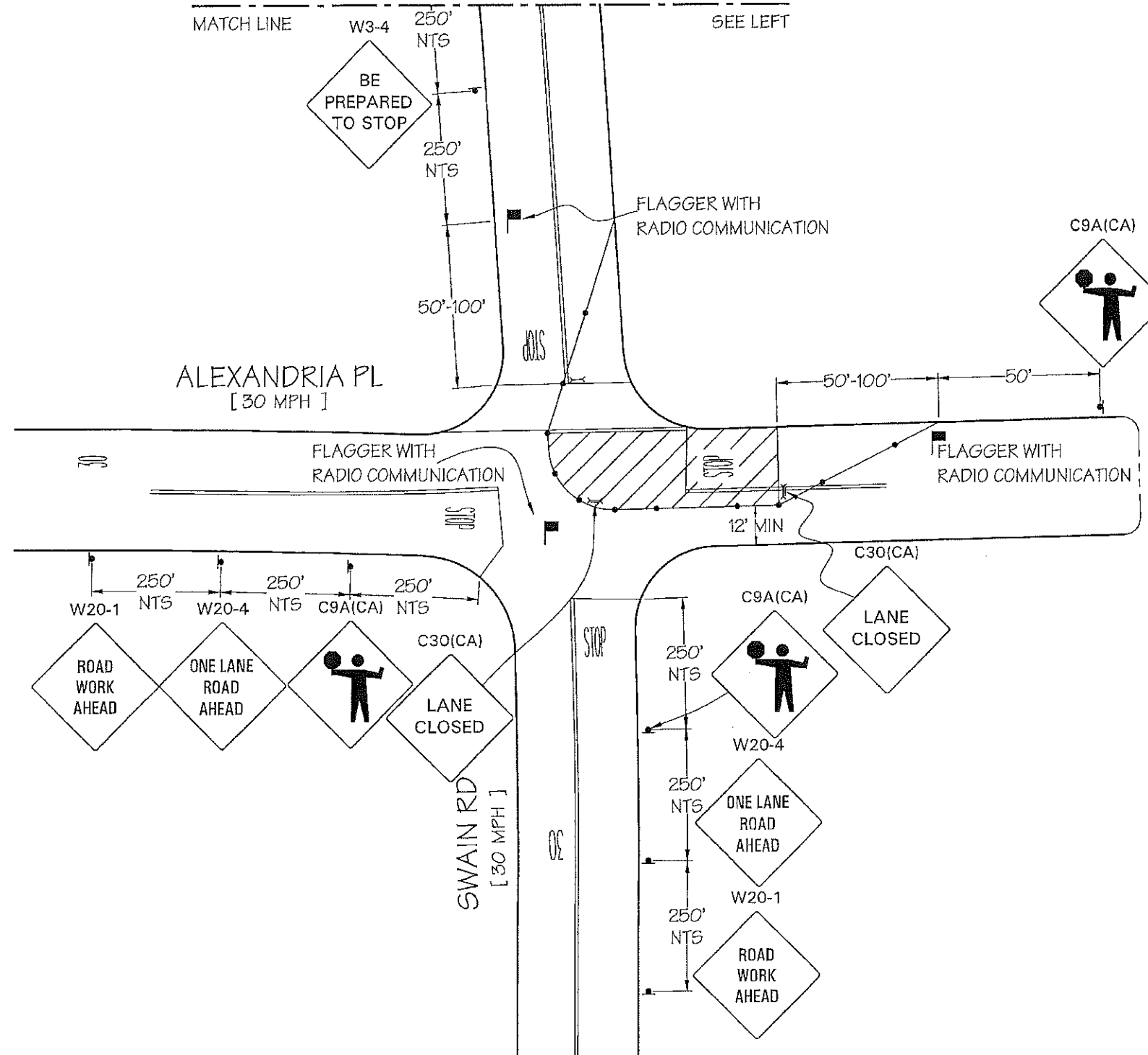
PHASE 3

ALL DRIVEWAYS TO REMAIN OPEN UNLESS OTHERWISE INDICATED.

FLAGGER TO ASSIST WITH PEDESTRIAN TRAFFIC.

POST TEMPORARY "NO PARKING" IN ALL AREAS AFFECTED BY WORK ZONE 72 HRS PRIOR TO WORK. NOTIFY ALL AFFECTED BUSINESSES/RESIDENTS.

ALL CONSTRUCTION SIGNS/DEVICES/MARKINGS NOT PERTINENT TO CONDITIONS AFTER WORK HOURS MUST BE REMOVED OR COVERED. STEEL PLATING MUST BE TREATED WITH SKID RESISTANT FINISH.



LEGEND

- | | |
|-----------------------------|------------------------------|
| - WORK AREA | - TYPE-III BARRICADE W/ SIGN |
| - HIGH LEVEL WARNING DEVICE | - TYPE-II BARRICADE W/ SIGN |
| - FLASHING ARROW SIGN (FAS) | - ADA BARRICADE W/ SIGN |
| - FLAGGER | - CHANNELIZATION DEVICE |
| - EXISTING SIGN | - SIGN |

ADDRESS

VARIOUS LOCATIONS,
STOCKTON

WORK AREA TRAFFIC CONTROL: 6009 ALEXANDRIA PL

CONTACT: TREVOR BOYD

CONTACT: 303-791-7199

JOB NUMBER: 122102

PLAN#: 31222

PERMIT NUMBER:

SHEET 3 OF 12

SIZE: B

SCALE: 1"=40'

DATE: 4/12/2018

PREPARED BY: KE

TRAFFIC MANAGEMENT, INC.

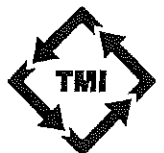
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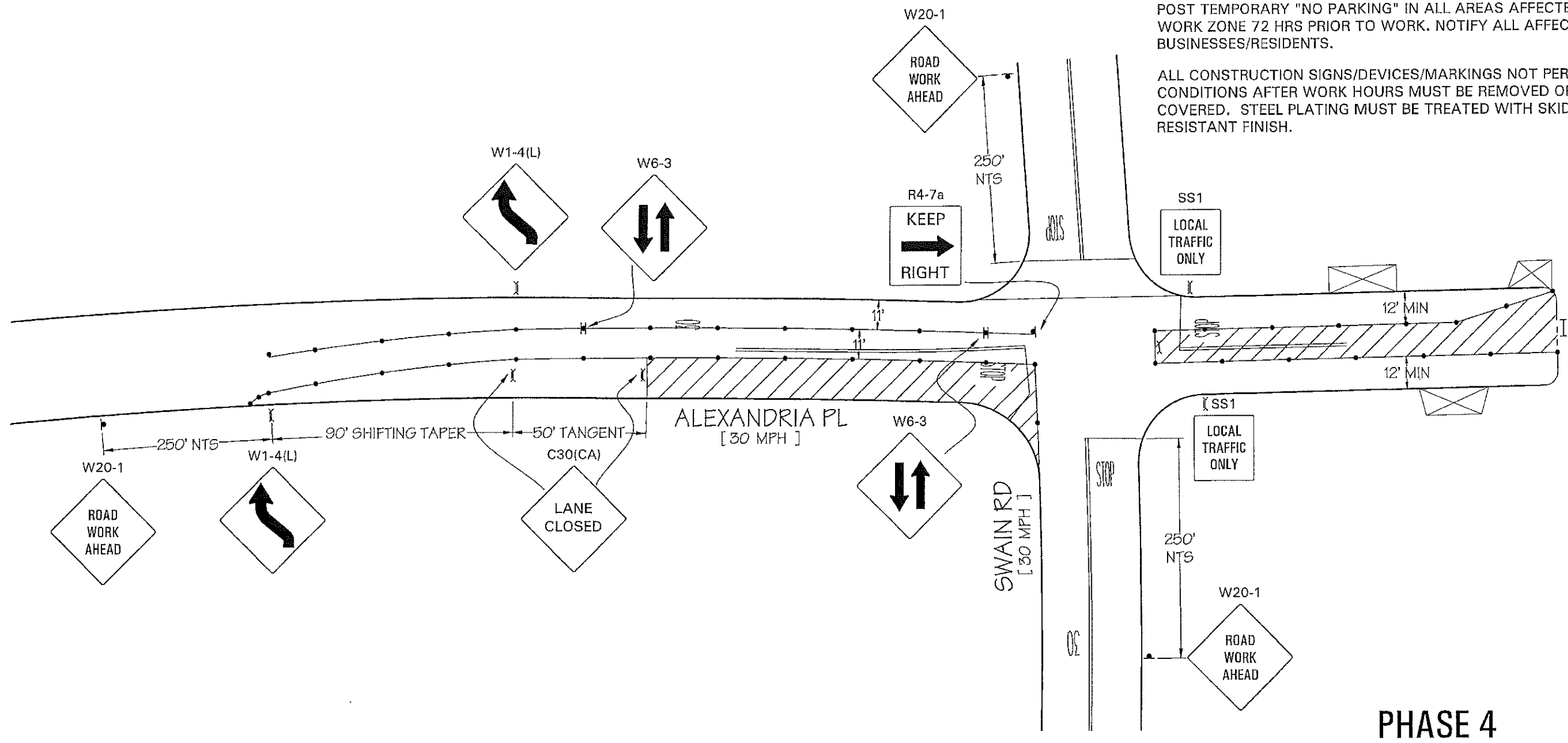
ALL DRIVEWAYS TO REMAIN OPEN UNLESS OTHERWISE INDICATED.

CONTRACTOR SHALL COORDINATE WITH AFFECTED RESIDENTS ON ALEXANDRIA PL WITH REGARDS TO UNIQUE INGRESS/EGRESS SET-UP.













FLAGGER TO ASSIST WITH PEDESTRIAN TRAFFIC.

POST TEMPORARY "NO PARKING" IN ALL AREAS AFFECTED BY WORK ZONE 72 HRS PRIOR TO WORK. NOTIFY ALL AFFECTED BUSINESSES/RESIDENTS.

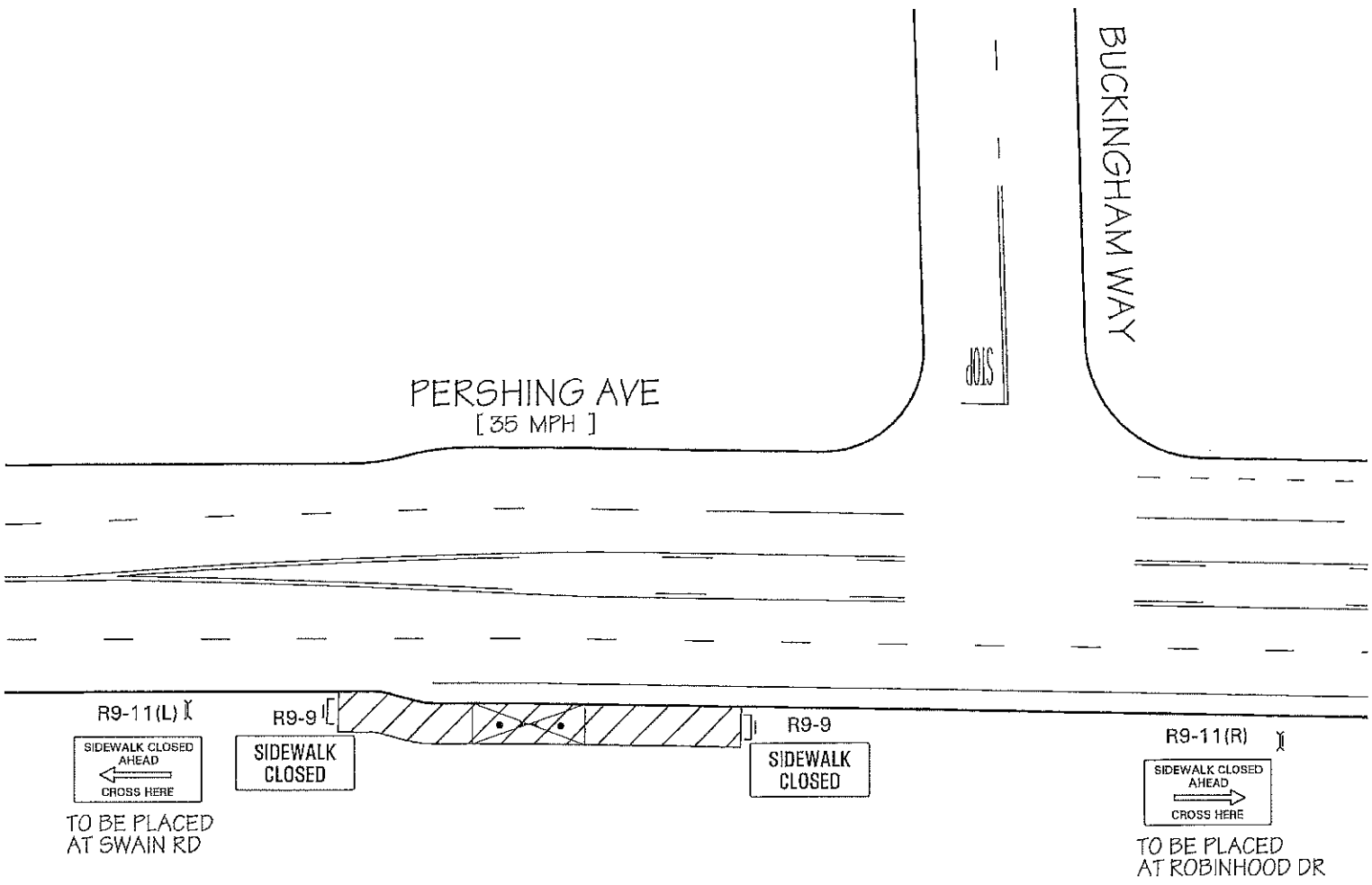
ALL CONSTRUCTION SIGNS/DEVICES/MARKINGS NOT PERTINENT TO CONDITIONS AFTER WORK HOURS MUST BE REMOVED OR COVERED. STEEL PLATING MUST BE TREATED WITH SKID RESISTANT FINISH.



PHASE 4

LEGEND		ADDRESS		WORK AREA TRAFFIC CONTROL: 6009 ALEXANDRIA PL				
 - WORK AREA	 - TYPE-III BARRICADE W/ SIGN	VARIOUS LOCATIONS, STOCKTON		CONTACT: TREVOR BOYD		TRAFFIC MANAGEMENT, INC. <i>California • Great Lakes • New York</i> 800.763.3999 www.trafficmanagement.com Traffic Control Services - Sales & Rentals Permits & Consulting - Engineering - Training C31 # 785804		
 - HIGH LEVEL WARNING DEVICE	 - TYPE-II BARRICADE W/ SIGN			CONTACT: 303-791-7199				
 - FLASHING ARROW SIGN (FAS)	 - ADA BARRICADE W/ SIGN			JOB NUMBER: 122102	PLAN#: 31222			
 - FLAGGER	 - CHANNELIZATION DEVICE			PERMIT NUMBER:				
 - EXISTING SIGN	 - SIGN			SHEET 4 OF 12	SIZE: B			SCALE: 1"=40'
				DATE: 4/12/2018	PREPARED BY: KE			

PHASE 5



CONTRACTOR TO COORDINATE WITH AFFECTED BUSINESSES, ALL DRIVEWAYS TO REMAIN OPEN UNLESS OTHERWISE INDICATED.

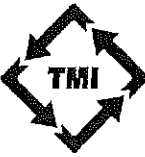
ALL DRIVEWAYS TO REMAIN OPEN UNLESS OTHERWISE INDICATED.

FLAGGER TO ASSIST WITH PEDESTRIAN TRAFFIC.

POST TEMPORARY "NO PARKING" IN ALL AREAS AFFECTED BY WORK ZONE 72 HRS PRIOR TO WORK. NOTIFY ALL AFFECTED BUSINESSES/RESIDENTS.

ALL CONSTRUCTION SIGNS/DEVICES/MARKINGS NOT PERTINENT TO CONDITIONS AFTER WORK HOURS MUST BE REMOVED OR COVERED. STEEL PLATING MUST BE TREATED WITH SKID RESISTANT FINISH.

LEGEND		ADDRESS	WORK AREA TRAFFIC CONTROL: 5665 PERSHING AVE		
- WORK AREA	- TYPE-III BARRICADE W/ SIGN	VARIOUS LOCATIONS, STOCKTON	CONTACT: TREVOR BOYD		
- HIGH LEVEL WARNING DEVICE	- TYPE-II BARRICADE W/ SIGN		CONTACT: 303-791-7199		
- FLASHING ARROW SIGN (FAS)	- ADA BARRICADE W/ SIGN		JOB NUMBER: 122102	PLAN#: 31222	
- FLAGGER	- CHANNELIZATION DEVICE		PERMIT NUMBER:		
- EXISTING SIGN	- SIGN		SHEET 5 OF 12	SIZE: B	SCALE: 1"=40'
			DATE: 4/12/2018	PREPARED BY: KE	
			TRAFFIC MANAGEMENT, INC. California · Great Lakes · New York 800.763.3999 www.trafficmanagement.com Traffic Control Services · Sales & Rentals Permits & Consulting · Engineering · Training C31 # 785804		



PHASE 6

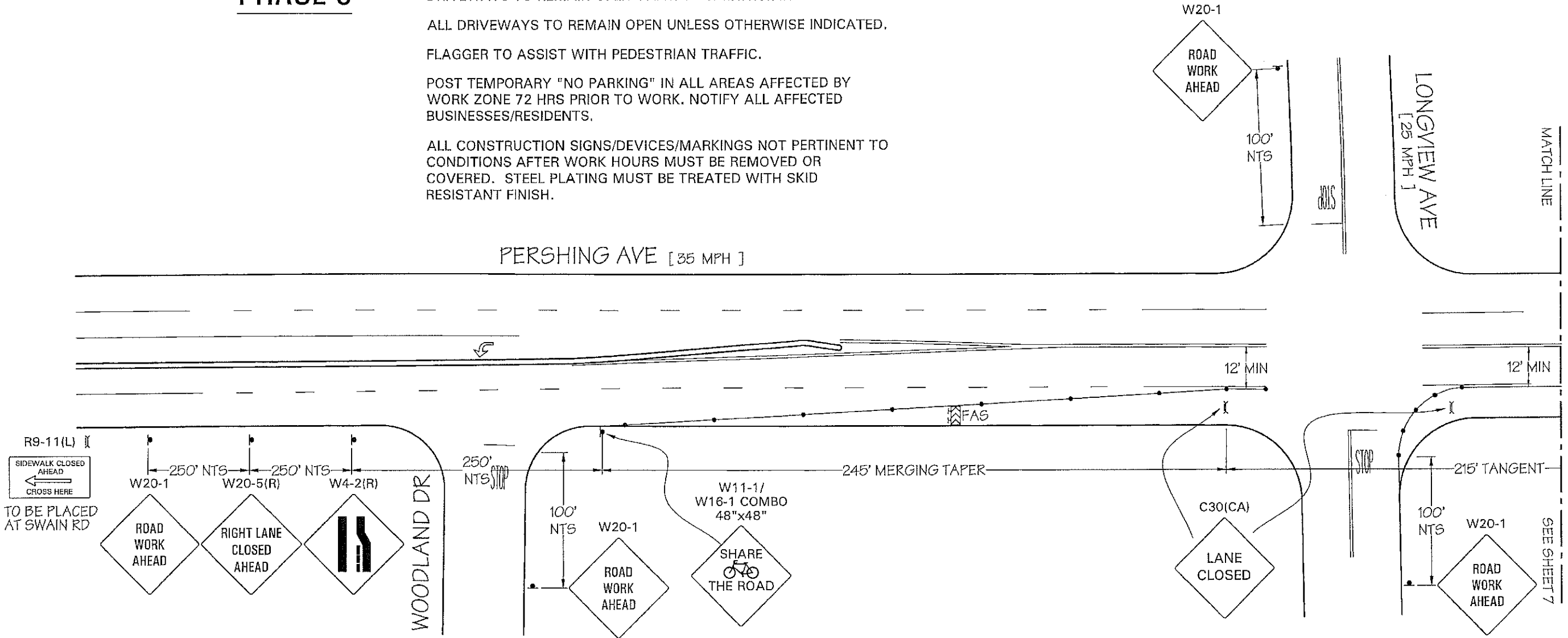
CONTRACTOR TO COORDINATE WITH AFFECTED BUSINESSES, ALL DRIVEWAYS TO REMAIN OPEN UNLESS OTHERWISE INDICATED.











ALL DRIVEWAYS TO REMAIN OPEN UNLESS OTHERWISE INDICATED.

FLAGGER TO ASSIST WITH PEDESTRIAN TRAFFIC.

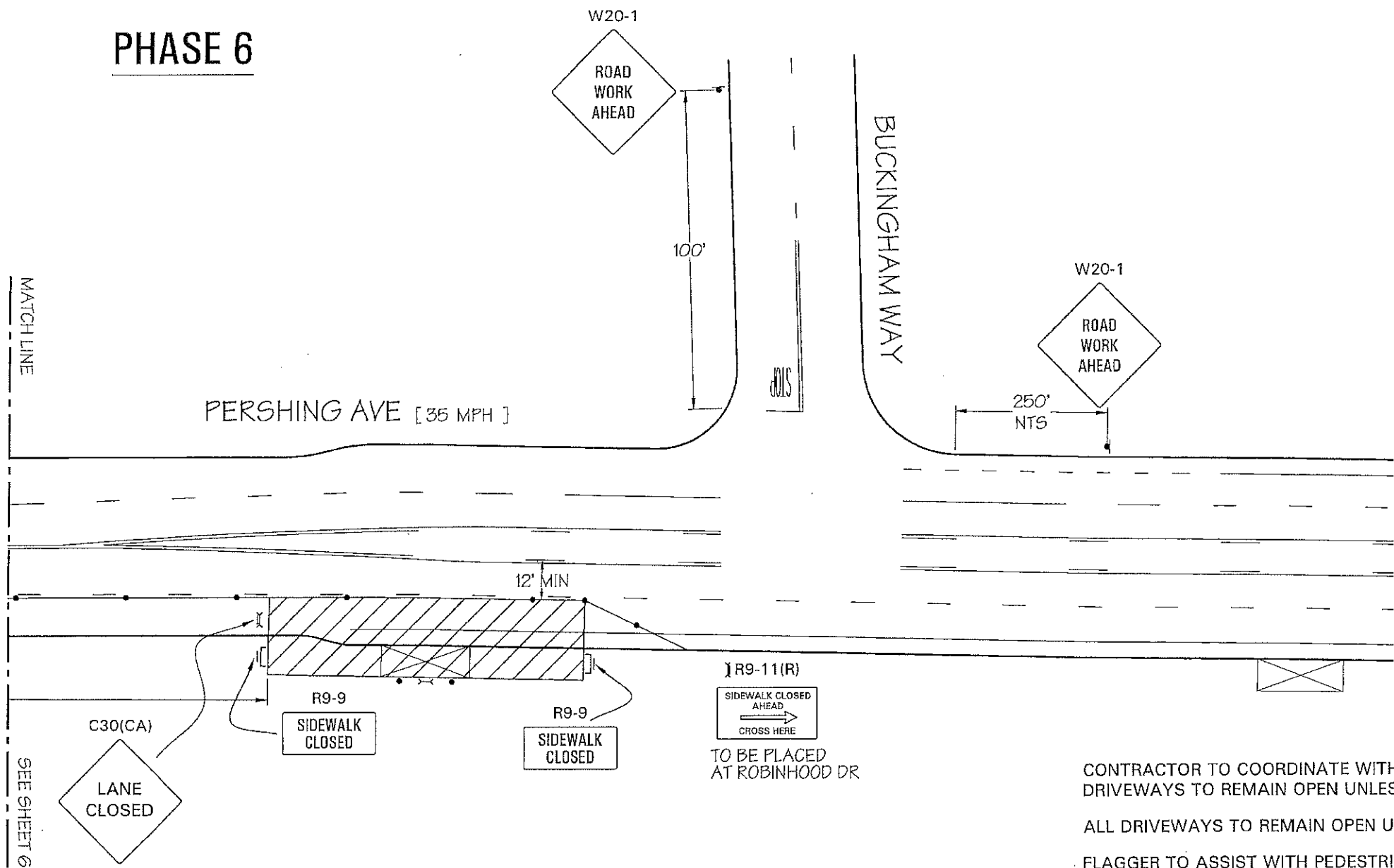
POST TEMPORARY "NO PARKING" IN ALL AREAS AFFECTED BY WORK ZONE 72 HRS PRIOR TO WORK. NOTIFY ALL AFFECTED BUSINESSES/RESIDENTS.

ALL CONSTRUCTION SIGNS/DEVICES/MARKINGS NOT PERTINENT TO CONDITIONS AFTER WORK HOURS MUST BE REMOVED OR COVERED. STEEL PLATING MUST BE TREATED WITH SKID RESISTANT FINISH.



LEGEND		ADDRESS	WORK AREA TRAFFIC CONTROL: 5665 PERSHING AVE		TRAFFIC MANAGEMENT, INC. <i>California • Great Lakes • New York</i> 800.763.3999 www.trafficmanagement.com Traffic Control Services - Sales & Rentals Permits & Consulting - Engineering - Training C31 # 785804
 - WORK AREA	 - TYPE-III BARRICADE W/ SIGN	VARIOUS LOCATIONS, STOCKTON	CONTACT: TREVOR BOYD		
 - HIGH LEVEL WARNING DEVICE	 - TYPE-II BARRICADE W/ SIGN		CONTACT: 303-791-7199		
 - FLASHING ARROW SIGN (FAS)	 - ADA BARRICADE W/ SIGN		JOB NUMBER: 122102	PLAN#: 31222	
 - FLAGGER	 - CHANNELIZATION DEVICE		PERMIT NUMBER:		
 - EXISTING SIGN	 - SIGN		SHEET 6 OF 12	SIZE: B	SCALE: 1"=40'
			DATE: 4/12/2018	PREPARED BY: KE	

PHASE 6



CONTRACTOR TO COORDINATE WITH AFFECTED BUSINESSES, ALL DRIVEWAYS TO REMAIN OPEN UNLESS OTHERWISE INDICATED.

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FLAGGER TO ASSIST WITH PEDESTRIAN TRAFFIC.

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- HIGH LEVEL WARNING DEVICE	- TYPE-II BARRICADE W/ SIGN		CONTACT: 303-791-7199			800.763.3999		
- FLASHING ARROW SIGN (FAS)	- ADA BARRICADE W/ SIGN		JOB NUMBER: 122102			PLAN#: 31222		
- FLAGGER	- CHANNELIZATION DEVICE		PERMIT NUMBER:			www.trafficmanagement.com		
- EXISTING SIGN	- SIGN		SHEET 7 OF 12			Traffic Control Services · Sales & Rentals		
			DATE: 4/12/2018		PREPARED BY: KE		Permits & Consulting · Engineering · Training	
							C31 # 785804	

Install Portable CMS near
Pershing Ave & Swain Rd

PHASE 7a

CONTRACTOR TO COORDINATE WITH AFFECTED BUSINESSES, ALL
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RESISTANT FINISH.

ROAD
WORK

- SCREEN 1

3/15
TO
3/29

- SCREEN 2

W20-1

ROAD
WORK
AHEAD

100'
NTS

LONGVIEW AVE
[25 MPH]

PERSHING AVE
[35 MPH]

W20-1

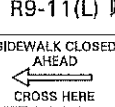
ROAD
WORK
AHEAD

100'

BUCKINGHAM WAY

MATCH LINE

TO BE PLACED
NEAR PERSHING
AVE & SWAIN RD

R9-11(L) 
SIDEWALK CLOSED
AHEAD
CROSS HERE
TO BE PLACED
AT SWAIN RD

W20-1

NTS

W20-5(R)

NTS

W4-2(R)

ROAD
WORK
AHEAD

RIGHT LANE
CLOSED
AHEAD



STOP

W20-1

ROAD
WORK
AHEAD

100'
NTS

250'
NTS

W11-1/
W16-1 COMBO
48"x48"

SHARE
THE ROAD

35' MAX

125'

245' MERGING TAPER

C30(CA)

LANE
CLOSED

OM-3R



35' MAX

12' MIN

100' TANGENT

SEE SHEET 9

LEGEND

ADDRESS

WORK AREA TRAFFIC CONTROL: 5665 PERSHING AVE

CONTACT: TREVOR BOYD

CONTACT: 303-791-7199

JOB NUMBER: 122102

PLAN#: 31222

PERMIT NUMBER:

SHEET 8 OF 12

SIZE: B

SCALE: 1"=40'

DATE: 4/12/2018

PREPARED BY: KE

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








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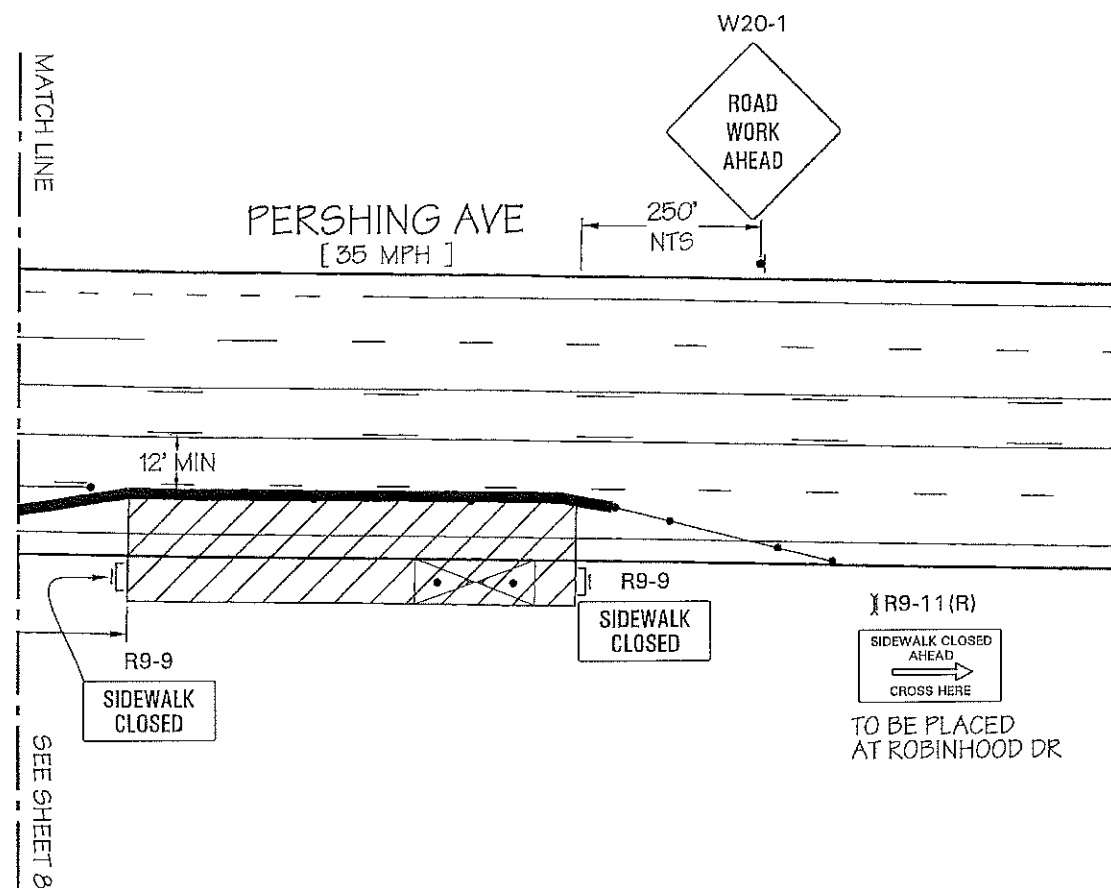
C31 # 785804



-  - WORK AREA
-  - HIGH LEVEL WARNING DEVICE
-  - FLASHING ARROW SIGN (FAS)
-  - FLAGGER
-  - EXISTING SIGN
-  - TYPE-III BARRICADE W/ SIGN
-  - TYPE-II BARRICADE W/ SIGN
-  - ADA BARRICADE W/ SIGN
-  - CHANNELIZATION DEVICE
-  - SIGN

VARIOUS LOCATIONS,
STOCKTON

PHASE 7a



CONTRACTOR TO COORDINATE WITH AFFECTED BUSINESSES, ALL DRIVEWAYS TO REMAIN OPEN UNLESS OTHERWISE INDICATED.

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- FLASHING ARROW SIGN (FAS)	- ADA BARRICADE W/ SIGN		JOB NUMBER: 122102	PLAN#: 31222
- FLAGGER	- CHANNELIZATION DEVICE		PERMIT NUMBER:	
- EXISTING SIGN	- SIGN		SHEET 9 OF 12	SIZE: B SCALE: 1"=40'
			DATE: 4/12/2018	PREPARED BY: KE
			TRAFFIC MANAGEMENT, INC. <i>California · Great Lakes · New York</i> 800.763.3999 www.trafficmanagement.com Traffic Control Services · Sales & Rentals Permits & Consulting · Engineering · Training C31 # 785804	



Install Portable CMS near Pershing Ave & Douglas Rd

ROAD WORK

- SCREEN 1

3/15
TO
3/29

- SCREEN 2

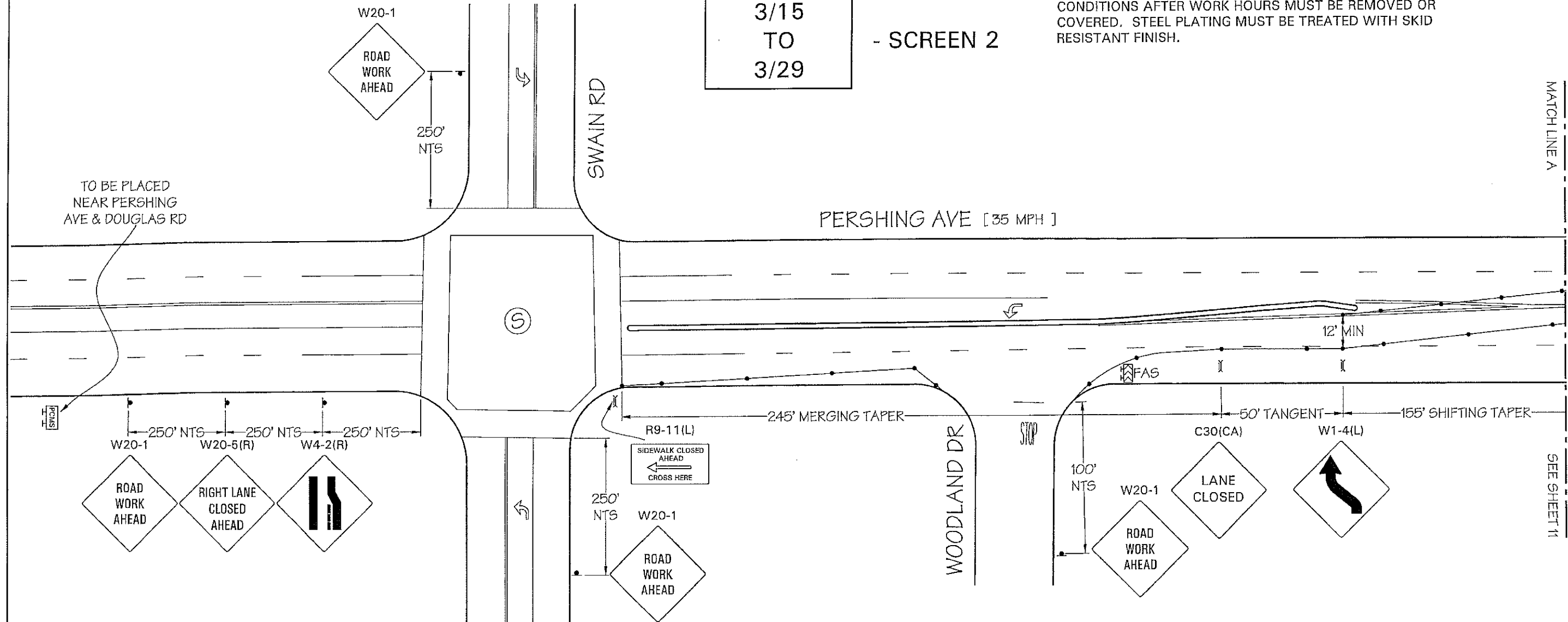
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

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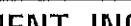
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PHASE 7b

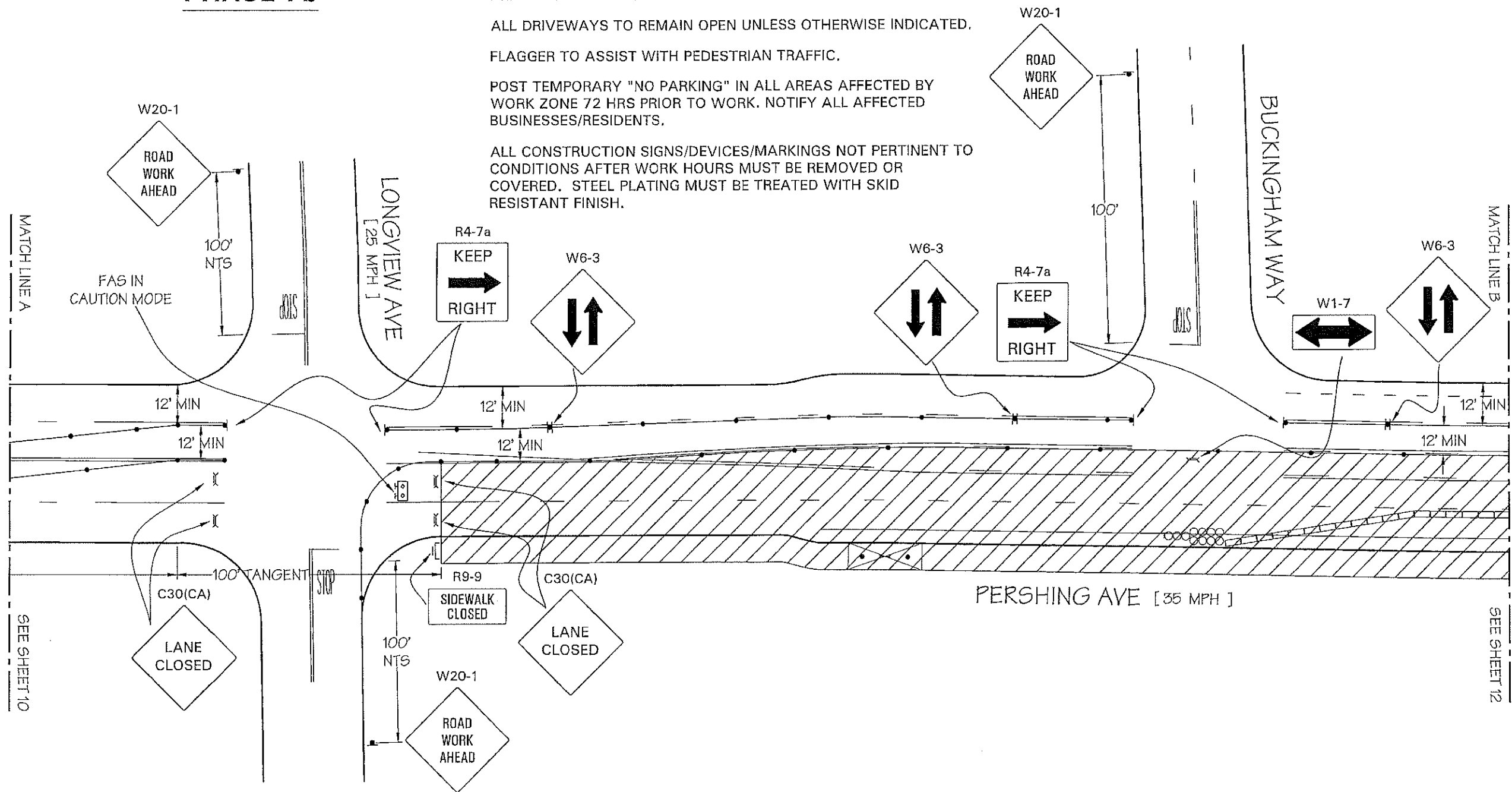
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LEGEND

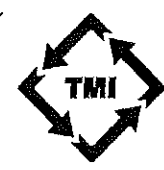
ADDRESS

WORK AREA TRAFFIC CONTROL: 5665 PERSHING AVE

CONTACT: TREVOR BOYD
CONTACT: 303-791-7199
JOB NUMBER: 122102 PLAN#: 31222
PERMIT NUMBER:
SHEET 11 OF 12 SIZE: B SCALE: 1"=40'
DATE: 4/12/2018 PREPARED BY: KE

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VARIOUS LOCATIONS,
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Install Portable CMS near
Pershing Ave & Robinhood Rd

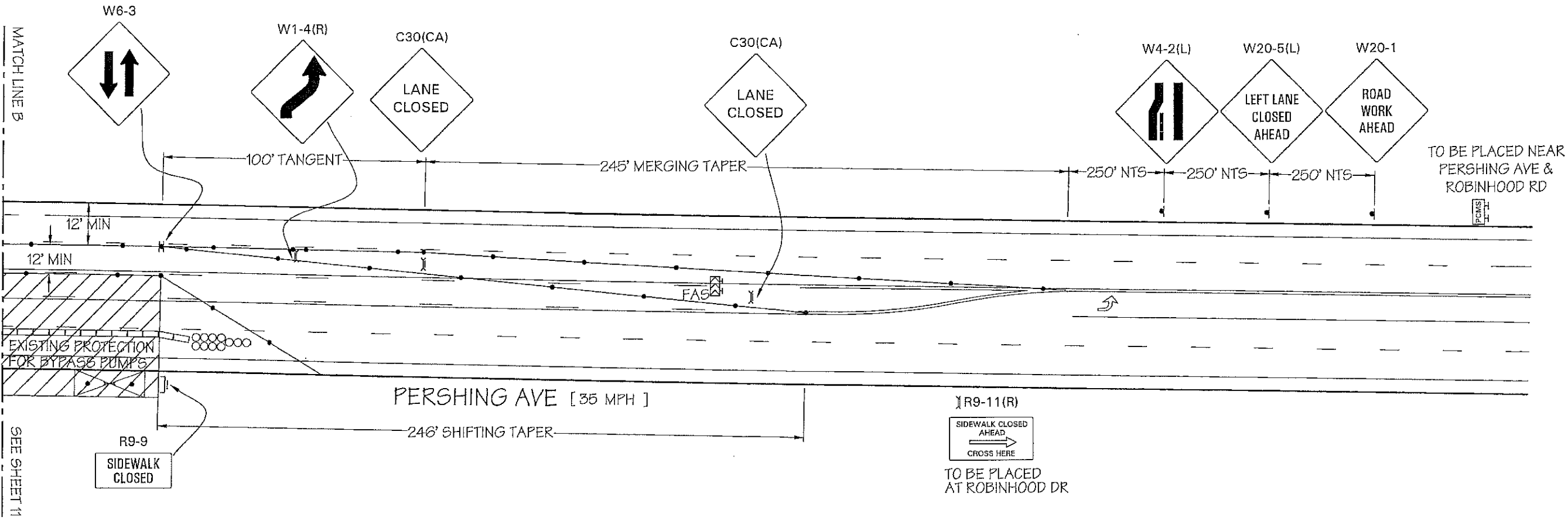
PHASE 7b











ROAD
WORK

- SCREEN 1

3/15
TO
3/29

- SCREEN 2



LEGEND		ADDRESS	WORK AREA TRAFFIC CONTROL: 5665 PERSHING AVE		TRAFFIC MANAGEMENT, INC. California • Great Lakes • New York 800.763.3999 www.trafficmanagement.com Traffic Control Services • Sales & Rentals Permits & Consulting • Engineering • Training C31 # 785804
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 - EXISTING SIGN	 - SIGN		SHEET 12 OF 12	SIZE: B	SCALE: 1"=40'
			DATE: 4/12/2018	PREPARED BY: KE	