



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-1600124**
Date Issued: 10/24/2018
Start Date: 11/01/2018
Exp. Date: 12/01/2018
Project No: PWP790095
Quad: SE

ENCROACHMENT PERMIT

To: MOZINGO CONSTRUCTION INC.
751 WAKEFIELD CT.
OAKDALE, CA 95361

Encroachment Type:

Trench			
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Location:

N/S OF MARIPOSA ROAD 1,300' E/O MUNFORD AVE.

In compliance with your request of **01/20/2016**, 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*****See Attached Special Conditions*****
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FORMS:

SS/WW, R-29		
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Est. Permit Fee: \$18,500.00

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

KRIS BALAJI, Director
Department of Public Works

By: 

Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

1. This permit is issued under and subject to all laws and ordinances of agencies governing the encroachment herein permitted. See the following references:
STREETS AND HIGHWAYS CODE
 1. Division 1, Chapter 3
 2. Division 2, Chapter 2, Section 942
 3. Division 2, Chapter 4, Section 1126
 4. Division 2, Chapter 5.5 and Chapter 6

SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.
2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.
3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.
4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.
5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.
6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.
7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.
8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.
9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.
10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.
11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.
12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.
13. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.

SPECIAL CONDITIONS FOR
MARIPOSA ROAD SEWER LINE
ENCROACHMENT PERMIT
PWP790095

1. Maintain traffic controls for all roads. 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. Existing fences shall not be removed without written consent of the property owner such consent shall be submitted to the County prior to the removal. Fences removed shall be restored with in-kind or better materials at the edge of the right-of-way.
6. Work shall not be permitted within the San Joaquin County right-of-way between November 1 and March 31 without prior authorization from the San Joaquin County Field Engineering Division, contact them at 209-953-7421.
7. All pavement markings destroyed or obliterated 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.
8. 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)
9. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by City of Stockton (City). City shall be responsible for any and all costs associated with the removal, relocation and/or adjustment of these facilities as determined by the County at City's expense. (Streets and Highways Code Section 1463)
10. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.

11. Length of open, unbackfilled trench shall be limited to a total maximum length of 250 linear feet during working hours.
12. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
13. All trenches shall be completely backfilled or shored and plated at the end of each workday, and the roadway restored to two-way traffic. If plating is to be used, a trench shoring and plating plan suitable for traffic loadings shall be prepared by a registered civil engineer and submitted for prior approval by the County.
14. 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.
15. Temporary pavement shall be provided for all trench areas within three days of pavement removal or by Friday of each week, whichever is more restrictive.
16. Final trench paving shall be placed when the length of temporarily surfaced trench exceeds 1,500 linear feet or by segment of road as determined by the County. Final trench paving will also be required to be placed when interruptions or delays of the work exceed two (2) weeks.
17. Mariposa Road subject to pavement cuts shall receive an asphalt concrete overlay as per San Joaquin County Improvement Standards Section 2-5.0 Trench Cut Policy. Plus, a slurry seal as shown on the approved improvement plans. Shoulder areas shall be brought up to the finish grade as directed by the County.
18. 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.
19. No paving joints allowed within paved shoulder, contractor shall pave all the way to outer edge of paved shoulder.
20. Contractor shall establish existing roadway and drainage grades within the construction area. Any repair to roadways and adjacent areas shall match existing grades. Any proposed grade changes shall receive prior approval from County.
21. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.
22. School buses shall be passed through the work zone with minimal delays.
23. Above ground vaults, panels and/or other similar facilities will be allowed within the right-of-way if located as far to the outside edge as possible and if the location either meets AASHTO Clear Zone guidelines or is protected by an existing obstruction such as a tree or utility pole. Utility vaults shall be located a minimum of 4'-0" from edge of pavement.

24. 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.
25. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, or as needed, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
26. The contractor shall not conduct construction operations in rain or heavy fog conditions.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 10/17/2018

To: San Joaquin County
Department of Public Works

Mozingo Construction Inc.
(Applicant Name)

751 Wakefield Court
(Mailing Address)

Oakdale, CA 95361
(City, State, Zip Code)

(209)848-0160
(Area Code - Telephone Number)

kaltamirano@mozingoconstruction.com
(Email Address)

OFFICE USE ONLY

JOB #	<u>790095</u>	REF #	
APN		CR #	
EXP. DATE	<u>12/1/18</u>		
VALID	<u>11/1/18</u> TO <u>12/1/18</u>	DRIVEWAYS:	
STREET	<u>MARIPOSA RD.</u>	*	
AREA	<u>STOCKTON</u> QUAD <u>SE</u>	*	
TYPE	<u>TRENCHING</u>	*	
FORMS	<u>SS/WW, R-29, TRENCH CUT POLICY</u>		
NOTES			

Sketch (Detailed plans may be submitted)

Please see attached.

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the N/NE side of Mariposa Rd. approximately 2.00 feet/mile of Mariposa Rd., by performing the following work (description of work):

Work will commence on or after 11/1/18 for approximately 20 days.

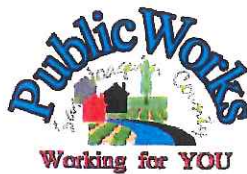
I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Signature of Applicant - Title

Project Engineer

Date

10/23/18



Department of Public Works

Kris Balaji, Director of Public Works

Fritz Buchman, Deputy Director/Development

Michael Selling, Deputy Director/Engineering

Jim Stone, Deputy Director/Operations

Kristi Rhea, Manager of Strategic Initiatives

Acknowledgement of Monument Preservation

I, Dave Skidmore, a duly Licensed Land Surveyor or a Professional Engineer
(Please print)

authorized to perform Land Surveying in the State of California, Registration No. 7126

hereby acknowledge and accept all responsibility for the monument preservation as required

per Section 8771(a-f) of the Business and Professions Code within the bounds of the

construction activity permitted by San Joaquin County Permit No. PS-160012A

I further acknowledge that I am hereby responsible for the Acknowledgement of Monument
Preservation prior to final acceptance of the construction activity.

Dave Skidmore
Signature

Seal



October 30, 2018

Date

PS-MONUMENT PRESERVATION

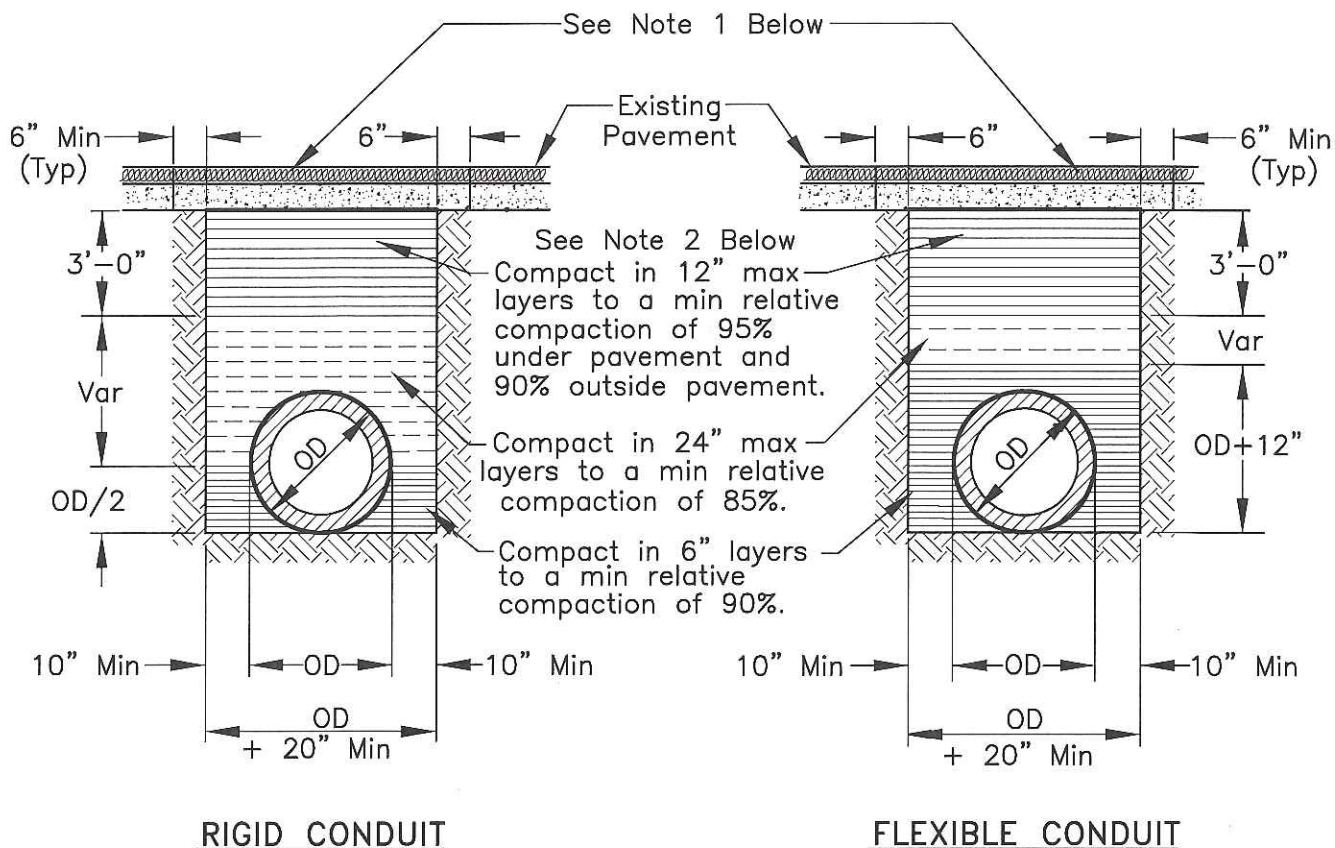
Site:

4221 Mariposa Road, Stockton

Civil Improvement Plans for the Sewer Main Extension

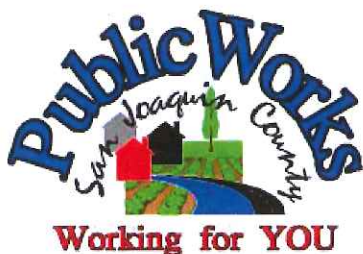
for Modesto Holding Company, prepared by

Associated Engineering Group, Inc.



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

Date: DEC 2014

Approved by:

Thomas M. Gull

No.	Revision	Description	Date

Std. Dwg. No.

R-29

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:

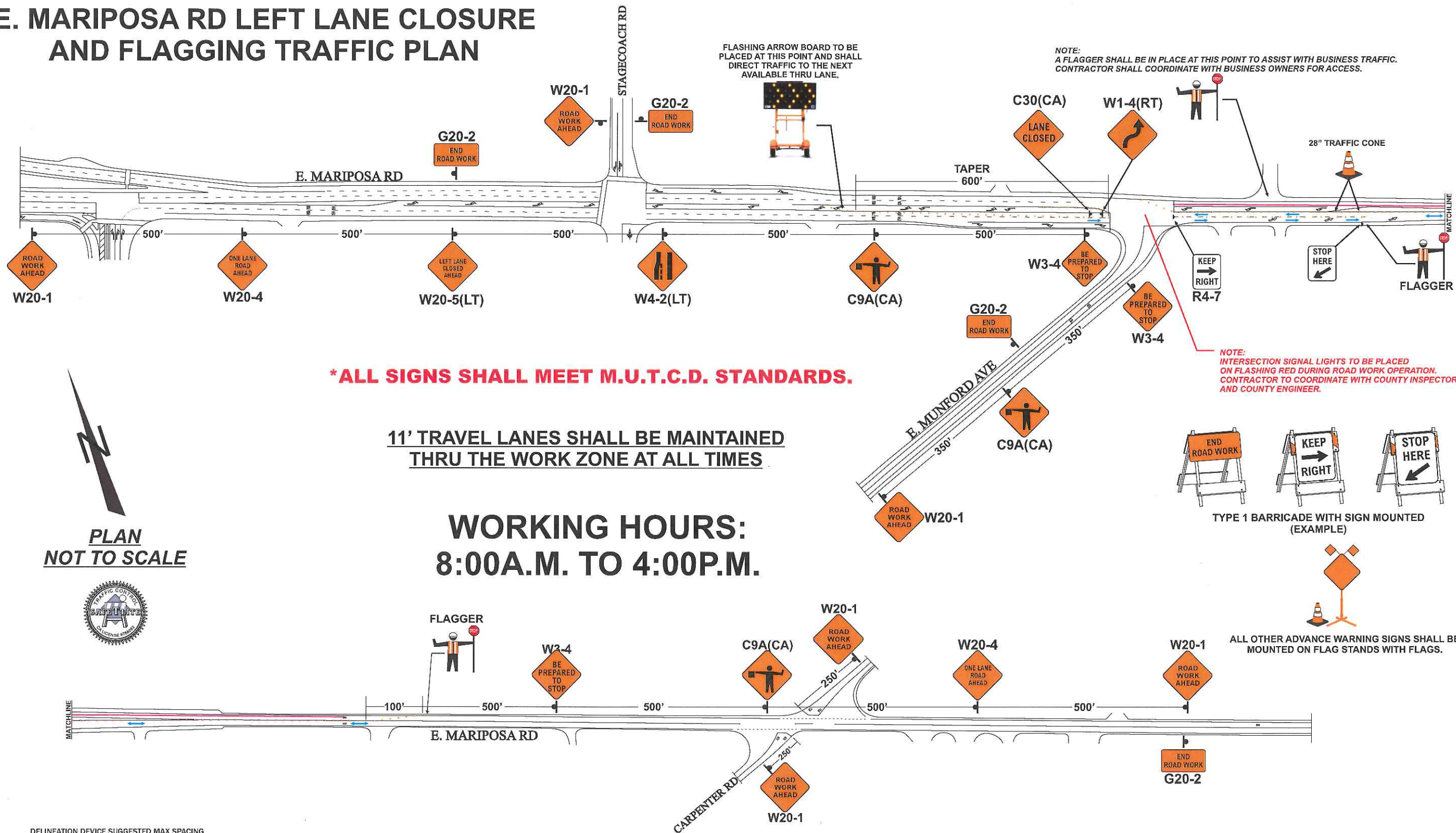
- A. All excavations shall be backfilled and compacted immediately after work therein has been completed.
- B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.
- C. Unless otherwise 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.

E. MARIPOSA RD LEFT LANE CLOSURE
AND FLAGGING TRAFFIC PLAN



*ALL SIGNS SHALL MEET M.U.T.C.D. STANDARDS.

11' TRAVEL LANES SHALL BE MAINTAINED
THRU THE WORK ZONE AT ALL TIMES

WORKING HOURS:
8:00A.M. TO 4:00P.M.

PLAN
NOT TO SCALE



DELINEATION DEVICE SUGGESTED MAX SPACING	
ROAD SPEED LIMIT	MAX DELINEATION SPACING
25 MPH	25' MAX SPACING
35 MPH	35' MAX SPACING
55 MPH	55' MAX SPACING

SPEED S (MPH)	MINIMUM TAPER LENGTH FOR WIDTH OF OFFSET 12FT			
	MERGING L (FT)	SHIFTING L/2 (FT)	SHOULDER L/3 (FT)	DOWN STREAM
20	80'	40'	27'	100'
25	125'	63'	42'	100'
30	180'	90'	60'	100'
35	245'	123'	82'	100'
40	320'	160'	107'	100'
45	540'	270'	180'	100'
50	600'	300'	200'	100'
55	660'	330'	220'	100'
60	720'	360'	240'	100'
65	780'	390'	260'	100'
70	840'	420'	280'	100'

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (LOW SPEED) 25 MPH OR LESS	100'	100'	100'
URBAN (LOW SPEED) MORE THAN 25 MPH TO 40 MPH	250'	250'	250'
URBAN (HIGH SPEED) MORE THAN 40 MPH	350'	350'	350'
RURAL	500'	500'	500'
EXPRESSWAY / FREEWAY	1,000'	1,500'	2,640'

- LEGEND
- SIGN PLACEMENT
 - PROPOSED SEWER PIPE LINE LOCATION

SIGN LEGEND:

- W20-1 ----- ROAD WORK AHEAD (48"X48")
- W20-4 ----- ONE LANE ROAD AHEAD (48"X48")
- C9A(CA) ----- FLAGGER SYMBOL (48"X48")
- W3-4 ----- BE PREPARED TO STOP (48"X48")
- W20-5(LT) ----- LEFT LANE CLOSED AHEAD (48"X48")
- W4-2(LT) ----- LEFT LANE ENDS SYMBOL (48"X48")
- G20-2 ----- END ROAD WORK (36"X18")
- R4-7 ----- KEEP RIGHT (24"X30")

TYPE OF TRAFFIC CONTROL:	LEFT LANE CLOSURE / FLAGGING
PROPOSED WORK SCHEDULE	TO BE DETERMINED
PLAN DRAWN BY:	ALBERTO DELGADO TRAFFIC CONTROL SUPERVISOR 1-800-851-6262 209-522-8913
PLAN PROVIDED BY:	SAFETY LIFE Construction, Engineering, Safety Supplies & Signs Sales, Rentals, Service 1051 N. EMERALD AVE. MODESTO, CA 95351 C31 LICENSED CONTRACTOR LICENSE NO. 788082
TRAFFIC CONTROL PLAN FOR:	SEWER LINE INSTALLATION E. MARIPOSA RD BETWEEN E. MUNFORD AVE AND CARPENTER RD STOCKTON, CALIFORNIA
MOZINGO CONSTRUCTION, INC.	751 WAKEFIELD CT. OAKDALE, CA 95361
CONTACT	BRADLEY LESTER (209)848-0160 blester@mozingoconstruction.com
PLAN SHEET#	TCP 1

CIVIL IMPROVEMENT PLANS FOR THE SEWER MAIN EXTENSION FOR MODESTO HOLDING COMPANY

4221 E. MARIPOSA ROAD
STOCKTON, CALIFORNIA 95215
ASSESSOR'S PARCEL NO. 179-07-15

LEGAL DESCRIPTION

BEING A PORTION OF SECTIONS 58 AND 68 OF THE C.M. WEBER GRANT, EL RANCHO DEL CAMPO DE LOS FRANCESSES, CITY OF STOCKTON, SAN JOAQUIN COUNTY, CALIFORNIA.

SPECIFICATIONS

- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FOLLOWING: CITY OF STOCKTON STANDARD SPECIFICATIONS AND PLANS ADOPTED SEPTEMBER 21, 2016, AND ALL AMENDMENTS THERETO TO DATE, CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (CAL TRANS) LATEST EDITION, CA MUTCD LATEST EDITION, OR THE SAN JOAQUIN COUNTY STANDARDS, WHERE APPLICABLE. WHERE THERE IS A CONFLICT BETWEEN THE PLANS AND THE CITY'S STANDARD SPECIFICATIONS AND PLANS, THE CITY OF STOCKTON STANDARD SPECIFICATIONS AND PLANS SHALL PREVAIL. ALL WORK SHALL BE UNDER THE INSPECTION OF THE CITY OF STOCKTON.
- PRIOR TO THE SCHEDULING OF A PRE-CONSTRUCTION MEETING OR THE ISSUANCE OF AN ENCROACHMENT PERMIT THE DEVELOPER OR CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF STOCKTON'S COMMUNITY DEVELOPMENT DEPARTMENT, BUILDING DIVISION.
- THE CONTRACTOR SHALL CONTACT JASON ENDER (204) 937-8381 OF THE CITY OF STOCKTON FOR A PRECONSTRUCTION CONFERENCE A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY RIGHTS-OF-WAY, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT WHERE APPLICABLE FOR ANY WORK DONE WITHIN RIGHTS-OF-WAY OR EASEMENTS FROM CITY OF STOCKTON. CONTRACTOR SHALL NOTIFY CITY, 24 HOURS IN ADVANCE OF COMMENCING THE WORK OR AS REQUIRED BY SAID PERMITS.
- ALL STATIONS REFER TO DISTANCES ALONG STREET CENTERLINE, UNLESS OTHERWISE NOTED. ALL STATIONS OFF CENTERLINE ARE PERPENDICULAR TO OR RADIIALLY OPPOSITE CENTERLINE STATIONS.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER AND THE CITY ENGINEER.
- DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CAL TRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE CITY OF STOCKTON. CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CALIFORNIA WATER SERVICE COMPANY FOR USE OF WATER FROM FIRE HYDRANTS FOR CONSTRUCTION PURPOSES. THE PERMIT SHALL BE APPROVED BY THE CITY OF STOCKTON FIRE DEPARTMENT.
- WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
- THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL MECHANICAL, ELECTRICAL AND INSTRUMENTATION EQUIPMENT, PIPING AND CONDUITS, STRUCTURES AND OTHER FACILITIES. THE AS-BUILT RECORD DRAWINGS SHALL INCLUDE THE STREET LIGHT LAYOUT PLAN SHOWING LOCATION OF LIGHTS, CONDUITS, CONDUCTORS, POINTS OF CONNECTIONS TO SERVICES, PULLBOXES, AND WIRE SIZES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS MUST BE PREPARED AND SUBMITTED BY THE CONTRACTOR.
- PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWINGS SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
- PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE IN THE FIELD THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALLIANCE (U.S.A.) 40 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 227-2600.
- BENCHMARK: CITY OF STOCKTON BENCHMARK NO. 408, BRASS DISC MARKING CITY OF STOCKTON MONUMENT STAMPED "45-21", IN A MONUMENT WELL LOCATED AT THE INTERSECTION OF FARMINGTON ROAD AND SINGLAIR AVENUE. ELEV. 31.51, NAVD83.
- THE GEOTECHNICAL LETTER TITLED "EXPLORATORY BORING WITH PERCOLATION TESTING, PROPOSED BROWN-STRAUSS PARCEL", AS PREPARED BY KRAZAN AND ASSOCIATES, INC. FILE NO. 072-15030, DATED AUGUST 2015, IS HEREBY MADE A PART OF THESE SPECIFICATIONS.
- THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY WORK PERFORMED BY THE CONTRACTOR OR OWNER BASED ON PLANS WHICH HAVE NOT BEEN SIGNED AND SEALED BY THE ENGINEER AND APPROVED BY THE CITY OR COUNTY HAVING JURISDICTION. ALL INFORMATION SHOWN ON PRELIMINARY DRAWINGS IS SUBJECT TO CORRECTION AND CHANGE, AND THE CONTRACTOR OR OWNER SHALL PERFORM ANY AND ALL WORK AT THEIR OWN RISK.
- ALL DISTANCES AND MEASUREMENTS ARE GIVEN AND WILL BE MADE IN A HORIZONTAL PLANE. GRADE WILL BE GIVEN FROM THE TOP OF NAILS OR STAKES, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL PRESERVE ALL POINTS AND STAKES SET FOR LINES AND GRADES OR MEASUREMENTS OF THE WORK. IN THEIR PROPER LOCATION UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ALL EXPENSES INCURRED IN REPLACING STAKES THAT HAVE BEEN REMOVED WITHOUT PROPER AUTHORITY SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
- THESE PLANS HAVE BEEN PREPARED WITH THE INTENT THAT ASSOCIATED ENGINEERING GROUP, INC. WILL PERFORM THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. THE CONTRACTOR SHALL PROVIDE ASSOCIATED ENGINEERING GROUP, INC. WITH FORTY-EIGHT HOURS ADVANCE NOTICE OF STAKING NEEDS. ANY STAKING REQUESTED BY THE CONTRACTOR OR THEIR SUBCONTRACTORS THAT IS ABOVE AND BEYOND THE AGREED UPON STAKING REQUEST SHALL BE SUBJECT TO AN EXTRA BACK CHARGE TO THE CONTRACTOR / CLIENT. IF ANOTHER FIRM OR AGENCY IS EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT ASSOCIATED ENGINEERING GROUP, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF ASSOCIATED ENGINEERING GROUP, INC. HAD PERFORMED THE STAKING WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW HIS WORK PRIOR TO THE REMOVAL OF CONSTRUCTION STAKES. IN THE EVENT THAT DISCREPANCIES ARISE BETWEEN CONSTRUCTION AND STAKING, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO FIELD REVIEW THE CONSTRUCTION STAKES. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR STAKING THAT HAS BEEN REMOVED OR DESTROYED BY THE CONTRACTOR.
- WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS, BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FINEST QUALITY ARE TO BE USED.
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA WATER RESOURCES CONTROL BOARD (SWRCB), ORDER NO. 2012-006-190, NPDES GENERAL PERMIT NO. CAS000002. THE CONTRACTOR SHALL IMPLEMENT AND MONITOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE SWRCB REGULATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS PERTAINING TO HIS OPERATIONS. HE SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT ISSUE OF "MANUAL OF TRAFFIC CONTROL MARKING SIGNS, LIGHTS AND DEVICES FOR USE IN PERFORMANCE OF WORK UPON HIGHWAYS" PUBLISHED BY THE STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY. THE CONTRACTOR'S ATTENTION IS ALSO CALLED TO THE REQUIREMENTS OF TITLE 8 OF THE CALIFORNIA ADMINISTRATIVE CODE, SUBCHAPTER 4, ARTICLE 6, "EXCAVATIONS, TRENCHES, EARTHWORK."
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- THE PAVING CONTRACTOR SHALL PROVIDE COMPACTION TESTS IN PAVED AREAS AS REQUIRED BY THE OWNER, AT THE CONTRACTOR'S EXPENSE.
- ALL MANHOLE, CLEANOUT AND WATER VALVE FRAME AND COVERS SHALL BE ADJUSTED TO FINISH GRADE BY THE PAVING CONTRACTOR.
- THE CONTRACTOR SHALL LOCATE AND PRESERVE ALL EXISTING FACILITIES INCLUDING GAS, WATER, IRRIGATION, POWER, TELEPHONE, SEWER OR OTHERS WHICH MAY BE PRESENT IN THE AREA OF CONSTRUCTION. THE RESPECTIVE UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO BEGINNING WORK.
- 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 8711)

UTILITIES

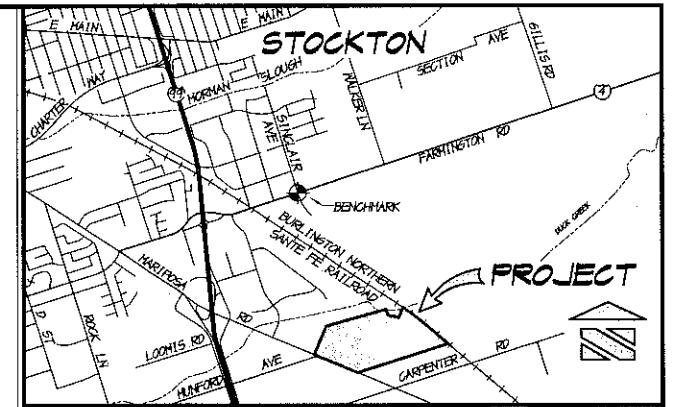
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF STOCKTON'S STANDARD SPECIFICATIONS OR THE SAN JOAQUIN COUNTY STANDARDS AND THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE.
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 9, SECTION 6705, 6706, AND 6707 OF THE STATE LABOR CODE.
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A DETAILED PLAN SHOWING THE DESIGN OF SHORING, BRACING, SLOPING, OR OTHER PROVISIONS TO BE MADE FOR WORKER PROTECTION FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF FIVE FEET OR MORE. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS, THE PLANS SHALL BE PREPARED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER.
- WHERE THE PLANS NOTE THAT THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITY LINES PRIOR TO CONSTRUCTION, IT IS INTENDED THAT THE CONTRACTOR "POT HOLE" THE EXISTING UTILITIES. IF A CONFLICT EXISTS BETWEEN EXISTING AND PROPOSED UTILITY LINES, THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO BEGINNING THE INSTALLATION OF THE PROPOSED UTILITIES. FIELD ADJUSTMENTS TO THE UTILITIES CAN BE MADE WITH THE APPROVAL OF THE ENGINEER.
- PRIOR TO INSTALLATION OF ON-SITE SANITARY SEWER OR STORM DRAINAGE FACILITIES, THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION AND DEPTH OF "OFF-SITE" POINTS OF CONNECTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DISCREPANCIES EXIST BETWEEN THE PLANS AND EXISTING CONDITIONS. IF THE CONTRACTOR CHOOSES TO BEGIN INSTALLATION OF SANITARY SEWER OR STORM DRAINAGE FACILITIES "UP-STREAM" OF PROPOSED POINTS OF CONNECTION WITHOUT PRIOR VERIFICATION OF EXISTING CONDITIONS, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH CORRECTING POTENTIAL PROBLEMS.
- ALL UTILITY LINE TRENCHES LOCATED WITHIN MARIPOSA ROAD SHALL BE BACKFILLED AND RECOMPACTED IN ACCORDANCE WITH THE SAN JOAQUIN COUNTY STANDARD SPECIFICATIONS. ALL UTILITY LINE TRENCHES LOCATED ON-SITE SHALL BE BACKFILLED AND RECOMPACTED IN ACCORDANCE WITH THE CITY OF STOCKTON STANDARD SPECIFICATIONS.

SANITARY SEWER

- P.V.C. PIPE AS SHOWN ON THE PLANS SHALL BE POLYVINYL CHLORIDE PIPE CONFORMING TO ASTM D-3034, SDR 26, WITH RUBBER SEALING RINGS MEETING ASTM D-3212 JOINTS FOR DRAINS AND SEWER PIPES USING FLEXIBLE ELASTOMERIC SEALS AND ASTM F-411 OR AN APPROVED EQUAL. THE P.V.C. PIPE AND ITS INSTALLATION, BACKFILL AND TESTING SHALL CONFORM TO THE CITY OF STOCKTON STANDARDS.
- WHERE THE PLANS SHOW P.V.C. SEWER PIPE, THE CONTRACTOR MAY USE VITRIFIED CLAY PIPE, BELL AND SPIGOT, CONFORMING IN ALL RESPECTS TO EXTRA STRENGTH VCP, ASTM SPECIFICATION C-700. JOINTS SHALL BE FLEXIBLE COMPRESSION JOINTS CONFORMING TO ASTM SPECIFICATION C-425 FOR TYPE III JOINT.

WATER

- THE 2" P.V.C. WATER LINES SHOWN SHALL BE 2" POLYVINYL CHLORIDE, SCHEDULE 40 CONFORMING TO THE LATEST EDITION OF THE UNIFORM PLUMBING CODE AND THE REQUIREMENTS OF CALMATER.
- ALL 6" WATER MAINS SHALL BE POLYVINYL CHLORIDE CLASS 235 CONFORMING TO ANMA C-400. DUCTILE IRON FITTINGS INCLUDING TEES, CROSSSES, CAPS, ETC. SHALL BE FLANGE, MECHANICAL JOINT OR COMBINATION THEREOF. MECHANICAL JOINT COUPLINGS SHALL CONFORM TO ANSI A21.10 (ANMA G110-T1). ALL COUPLINGS SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH ANMA C104-80, AND SHALL BE FURNISHED WITH RUBBER RING SEAL JOINTS DESIGNED TO BE USED WITH CLASS 235 P.V.C. PIPE, ANMA C-400.
- ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER FROM FINISH GRADE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND THE ELEVATION OF EXISTING WATER LINES PRIOR TO BEGINNING CONSTRUCTION.
- ON-SITE WATER LINES SHALL BE CHLORINATED AND TESTED IN ACCORDANCE WITH THE CALMATER STANDARD SPECIFICATIONS PRIOR TO THE CONNECTION TO THE WATER SYSTEM.



VICINITY MAP

NO SCALE

INDEX

- VICINITY MAP, INDEX AND SPECIFICATIONS
- EXISTING TOPOGRAPHY
- ON-SITE SEWER PLAN
- ON-SITE WATER PLAN
- SEWER MAIN EXTENSION ~ PLAN AND PROFILE
- CONSTRUCTION DETAILS
- EROSION AND SEDIMENT CONTROL PLAN
- EROSION AND SEDIMENT CONTROL DETAILS

UTILITY CONTACTS

SANITARY SEWER ~ CITY OF STOCKTON
ATTN.: TOM MATKINS PH. (204) 937-8725

DOMESTIC WATER ~ CAL WATER COMPANY
ATTN.: WAYNE LECHIG PH. (204) 464-8311

STORM DRAINAGE ~ CITY OF STOCKTON
ATTN.: TOM MATKINS PH. (204) 937-8725

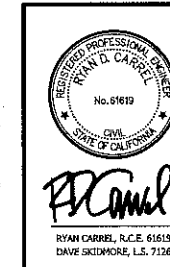
ELECTRIC ~ PACIFIC GAS AND ELECTRIC COMPANY
ATTN.: STEVE OKAMOTO PH. (204) 942-1494

GAS ~ PACIFIC GAS AND ELECTRIC COMPANY
ATTN.: DAVE RYMERS PH. (204) 942-1626

TELEPHONE ~ A.T. & T.
ATTN.: JAMES JELLY PH. (204) 474-4110

CABLE TELEVISION ~ COMCAST
ATTN.: JIM HOLT PH. (204) 955-6042

COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS	
APPROVED AS "ENCROACHMENT PERMIT PLAN SET" APPROVED FOR WORK WITHIN COUNTY RIGHT-OF-WAY ONLY	
APPROVED: Alex Chetkas	DATE: 8/22/18
ROE NO.: 559407	EXP. DATE: 12/31/18
ENCROACHMENT PERMIT NO.: 15-1160017A	DATE ISSUED: 10/24/18 BY: Scott Capen



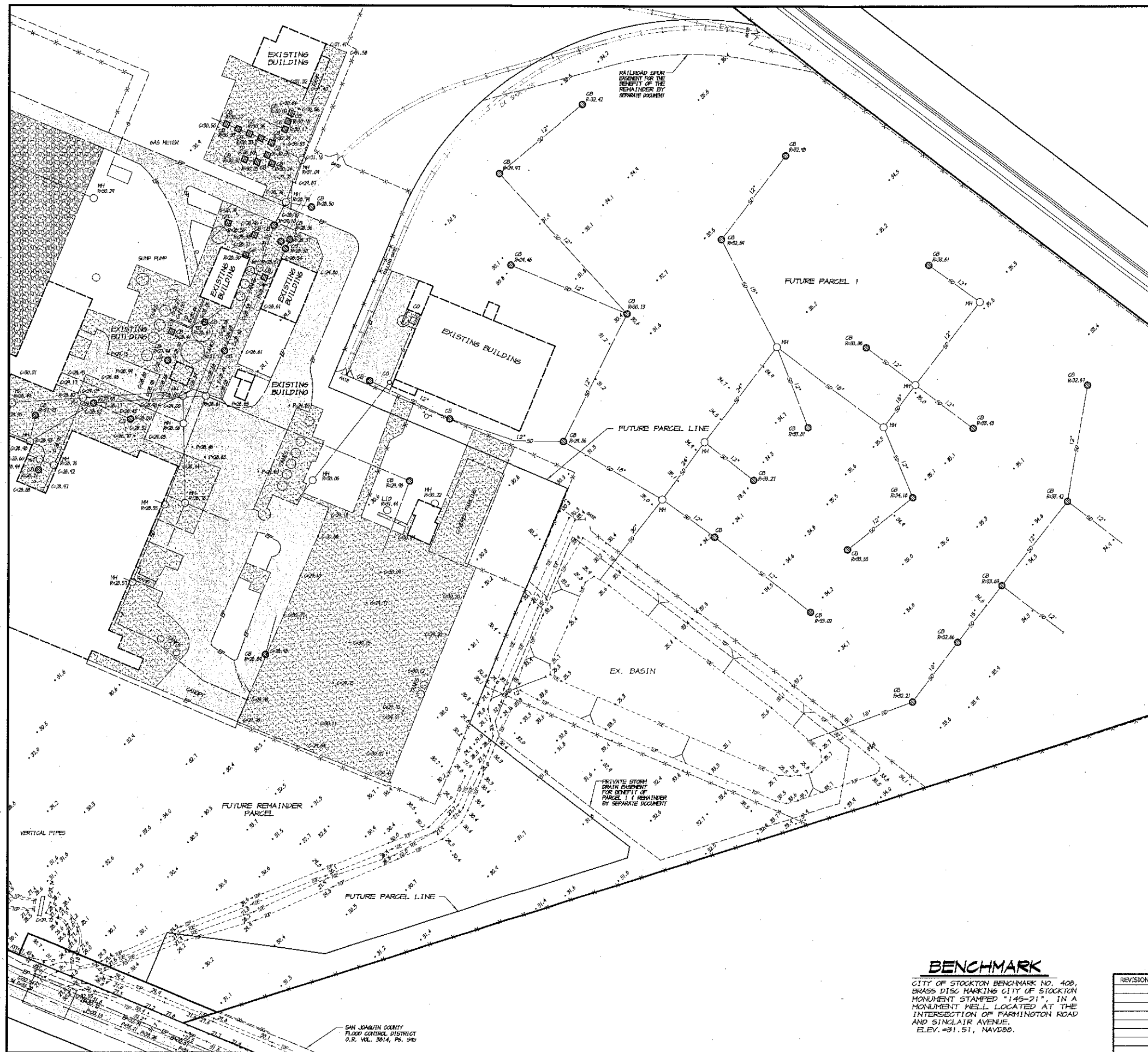
ASSOCIATED ENGINEERING GROUP
4206 TECHNOLOGY DRIVE, SUITE 4, MODESTO, CA 95356
PHONE: (209) 545-3390 FAX: (209) 545-3375 www.aecgroup.com

VICINITY MAP, INDEX
AND SPECIFICATIONS
4221 E. MARIPOSA ROAD IMPROVEMENTS

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CA

SCALE: NONE	APPROVED BY: [Signature]	DATE: 9/9/18	SHEET NO. 1
DESIGNED BY: JEFF			OF 3 SHEETS
DRAWN BY: JEFF			PROJECT NO.
CHECKED BY: R.D.C.			487-15
RECORD DWG: 487-GRD			

5324C



SCALE: 1"=60'

LEGEND

- EX. GROUND ELEVATION
- EX. EDGE OF PAVEMENT ELEVATION
- EX. A.C. PAVEMENT ELEVATION
- EX. RIM ELEVATION
- EX. CONCRETE ELEVATION
- EX. CURB AND GUTTER
- EX. EDGE OF PAVEMENT
- EX. SANITARY SEWER LINE
- EX. MANHOLE
- EX. CLEAN-OUT
- EX. STORM DRAIN LINE
- EX. CATCH BASIN
- EX. WATER LINE
- EX. POWER POLE
- EX. POLE WITH GUY ANCHOR
- EX. SIGN
- EX. GUARD POST
- EX. TELEPHONE BOX
- EX. ELECTRICAL BOX
- EX. ELECTROLIER
- EX. FENCE
- EX. TREE, SPREAD DRAWN TO SCALE
- EX. AREA OF CONCRETE
- EX. AREA OF ASPHALT PAVEMENT
- EX. AREA OF GRAVEL

UTILITY LOCATIONS

EXISTING UNDERGROUND UTILITIES SHOWN ARE TAKEN FROM RECORD INFORMATION TO AID THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, BOTH VERTICAL AND HORIZONTAL, OF ALL EXISTING UNDERGROUND LINES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO WORK.

A) EXISTING UTILITIES ARE SHOWN AS THEY ARE BELIEVED TO EXIST FROM RECORDS SUPPLIED BY OTHERS. THE OWNER AND ENGINEER DO NOT ACCEPT RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL HAVE EACH UTILITY COMPANY ACCURATELY LOCATE IN THE FIELD THEIR MAINS AND SERVICE LINES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES, SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. CONTACT U.S.A. AT PH. 800-227-2600

NOTE: SECTION 1540 (A)(1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8, CALIFORNIA ADMINISTRATION CODE SECTION 1540) ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, AS AMENDED, WHICH STATES:

"PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION I.E., SEWER, WATER, FUEL, ELECTRICAL LINES, ETC. WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION."



Know what's below.
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BENCHMARK

CITY OF STOCKTON BENCHMARK NO. 400, BRASS DISC MARKING CITY OF STOCKTON MONUMENT STAMPED "145-21" IN A MONUMENT WELL LOCATED AT THE INTERSECTION OF FARMINGTON ROAD AND SINCLAIR AVENUE. ELEV. = 31.51, NAVD83.

REVISION	DESCRIPTION	DATE	BY	APPROV.



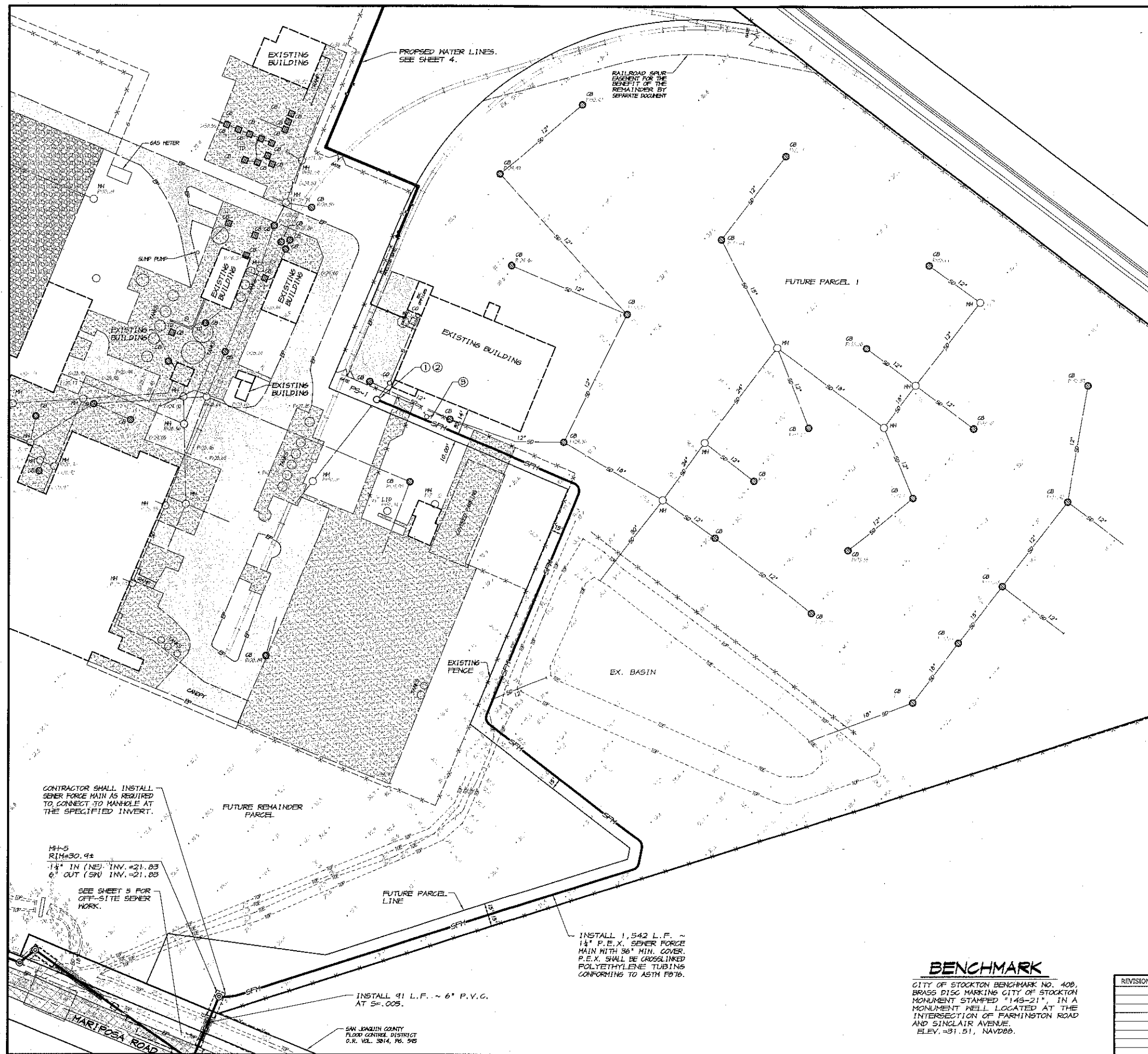
PD Carrel
RYAN CARREL, R.C.E. 61519
DAVE SODINOR, L.S. 7126

ASSOCIATED ENGINEERING GROUP
4206 TECHNOLOGY DRIVE, SUITE 4, MODESTO, CA 95356
PHONE: (209) 545-3390 FAX: (209) 545-3875 www.assoceng.com

EXISTING TOPOGRAPHY
4221 E. MARIPOSA ROAD IMPROVEMENTS

DESIGNED BY: JEFF	DATE: 9/12/18	SHEET NO. 2
DRAWN BY: JEFF	APPROVED BY: JEFF	OF 2 SHEETS
CHECKED BY: R.D.C.	FOR REFERENCE ONLY	PROJECT NO. 987-15
RECORD DWG: 987-GRD	CITY ENGINEER	STOCKTON, CALIF.

5324.1C



LEGEND

- EX. GROUND ELEVATION
- EX. EDGE OF PAVEMENT ELEVATION
- EX. A.C. PAVEMENT ELEVATION
- EX. RIM ELEVATION
- EX. CONCRETE ELEVATION
- EX. CURB AND GUTTER
- EX. EDGE OF PAVEMENT
- EX. SANITARY SEWER LINE
- EX. MANHOLE
- EX. CLEAN-OUT
- EX. STORM DRAIN LINE
- EX. CATCH BASIN
- EX. WATER LINE
- EX. POWER POLE
- EX. POLE WITH GUY ANCHOR
- EX. SIGN
- EX. GUARD POST
- EX. TELEPHONE BOX
- EX. ELECTRICAL BOX
- EX. ELECTROLIER
- EX. FENCE
- EX. TREE, SPREAD DRAWN TO SCALE
- EX. AREA OF CONCRETE
- EX. AREA OF ASPHALT PAVEMENT
- SPM PROP. SEWER FORCE MAIN
- PS-1 PROP. SEWER PUMP STATION

NOTES

1. INSTALL NEW SEWER PUMP STATION. USE FLYST "COMPIT", READY-TO-CONNECT POLYETHYLENE PUMP STATION. CONTRACTOR TO CONNECT EX. SEWER LINE TO NEW PUMP STATION. THE CONTRACTOR SHALL REMOVE, PLUG AND ABANDON 11 L.F. OF THE EX. SEWER LINE TO THE FUTURE PARCEL LINE, AS SHOWN.
2. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE EXISTING UTILITIES AT ALL LOCATIONS WHERE THE PLANS SHOWN CONNECTIONS TO THE EX. UTILITIES PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL MODIFY THE SEWER ALIGNMENT AS REQUIRED TO AVOID CONFLICT WITH THE EX. FIRE HYDRANT.



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RYAN D. CARREL
R.C.E. 61619
DAVE SKIDMORE, L.S. 7126

ASSOCIATED ENGINEERING GROUP

4208 TECHNOLOGY DRIVE, SUITE 4, MODESTO, CA 95356
PHONE: (209) 545-3390 FAX: (209) 545-3875 www.assoceng.com

ON-SITE SEWER PLAN
4221 E. MARIPOSA ROAD IMPROVEMENTS

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CA

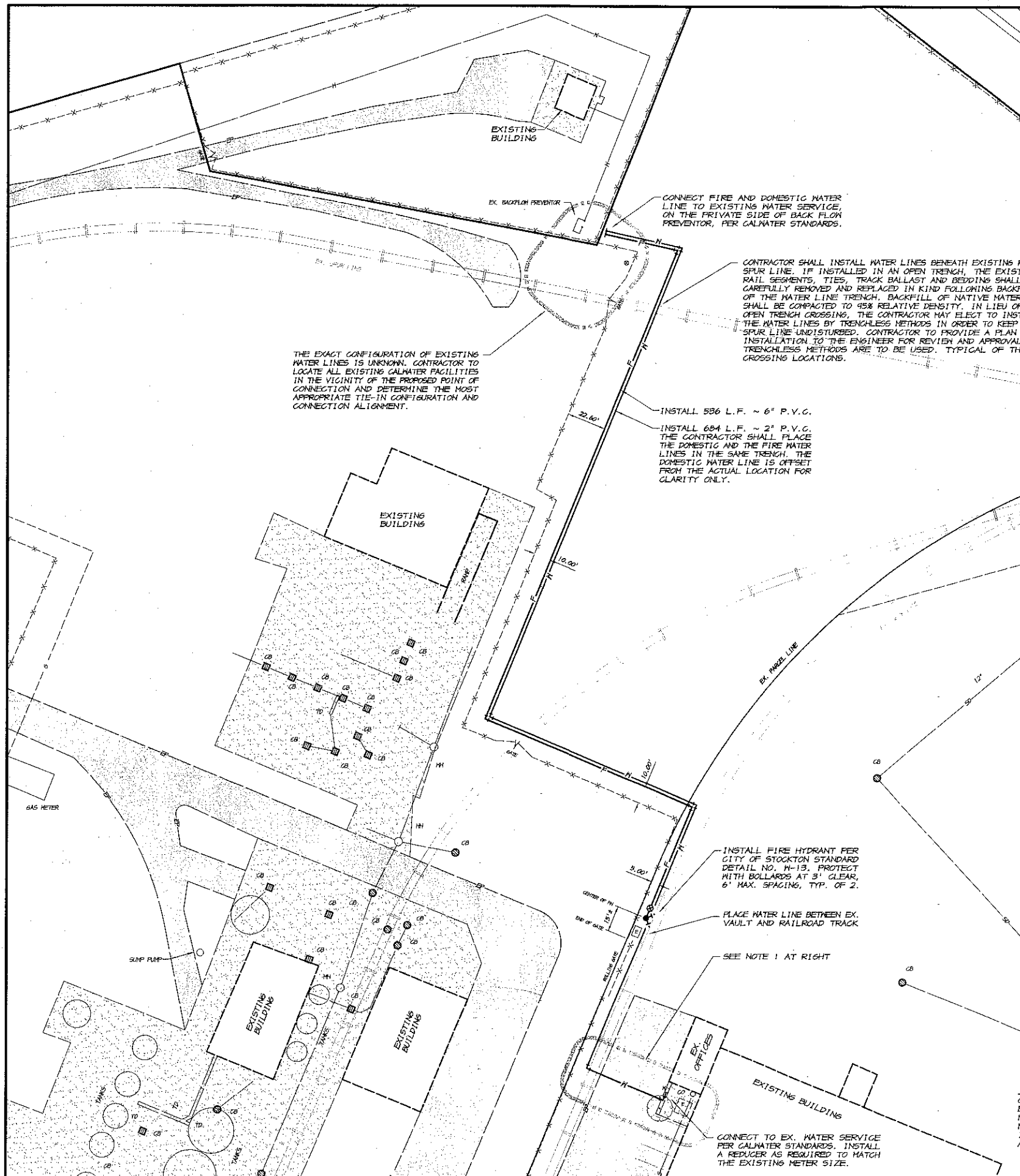
BENCHMARK

CITY OF STOCKTON BENCHMARK NO. 408, BRASS DISC MARKING CITY OF STOCKTON MONUMENT STAMPED "143-21" IN A MONUMENT WELL LOCATED AT THE INTERSECTION OF FARMINGTON ROAD AND SINCLAIR AVENUE. ELEV. = 31.51, NAVD83.

REVISION	DESCRIPTION	DATE	BY	APPROV.

SCALE: 1"=60'	DESIGNED BY: JEFF	DATE: 7/1/11	SHEET NO. 3
DRAWN BY: JEFF	CHECKED BY: R.D.C.	APPROVED BY: [Signature]	OF 3 SHEETS
RECORD DWG: 987-GRD	CITY ENGINEER STOCKTON, CALIF.	FOR REFERENCE ONLY	PROJECT NO. 987-15

5324.2C



SCALE: 1"=30'

LEGEND

- EX. CURB AND GUTTER
- EX. EDGE OF PAVEMENT
- EX. SANITARY SEWER LINE
- EX. MANHOLE
- EX. CLEAN-OUT
- EX. STORM DRAIN LINE
- EX. CATCH BASIN
- EX. WATER LINE
- EX. POWER POLE
- EX. POLE WITH GUY ANCHOR
- EX. SIGN
- EX. GUARD POST
- EX. TELEPHONE BOX
- EX. ELECTRICAL BOX
- EX. ELECTROLIER
- EX. FENCE
- EX. TREE, SPREAD DRAWN TO SCALE
- EX. AREA OF CONCRETE
- EX. AREA OF ASPHALT PAVEMENT
- PROP. 2" DOMESTIC WATER LINE
- PROP. 6" FIRE WATER LINE
- PROP. FIRE HYDRANT

NOTE

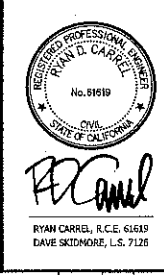
1. THE EXACT ALIGNMENT AND CONFIGURATION OF THE EXISTING BROWN-STRAUSS OFFICE WATER SERVICE IS UNKNOWN. CONTRACTOR TO LOCATE THE EXISTING DOMESTIC WATER SERVICE IN THE PARKING LOT AREA AND DETERMINE IF THE SERVICE CAN BE CONNECTED TO ON THE WEST SIDE OF THE PARKING LOT OUTSIDE OF THE LIMITS OF PAVEMENT. OTHERWISE, THE NEW 2" DOMESTIC WATER SERVICE SHALL BE EXTENDED TO THE METER BOX LOCATION, AS SHOWN. SANGUT IN CLEAN STRAIGHT LINES FOR TRENCHING AND PATCH THE EXISTING PAVEMENT WITH A MATCHING STRUCTURAL SECTION TO PROVIDE A CONTINUOUS PAVED SURFACE FOLLOWING CONSTRUCTION.



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BENCHMARK

CITY OF STOCKTON BENCHMARK NO. 408, BRASS DISC MARKING CITY OF STOCKTON MONUMENT STAMPED "145-21", IN A MONUMENT WELL LOCATED AT THE INTERSECTION OF FARMINGTON ROAD AND SINCLAIR AVENUE. ELEV. = 31.51, NAVD88.



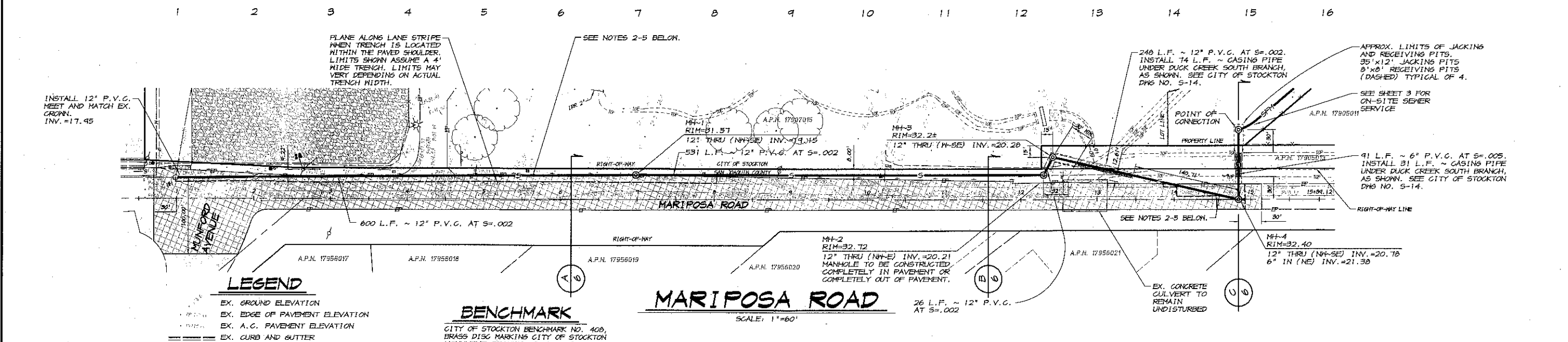
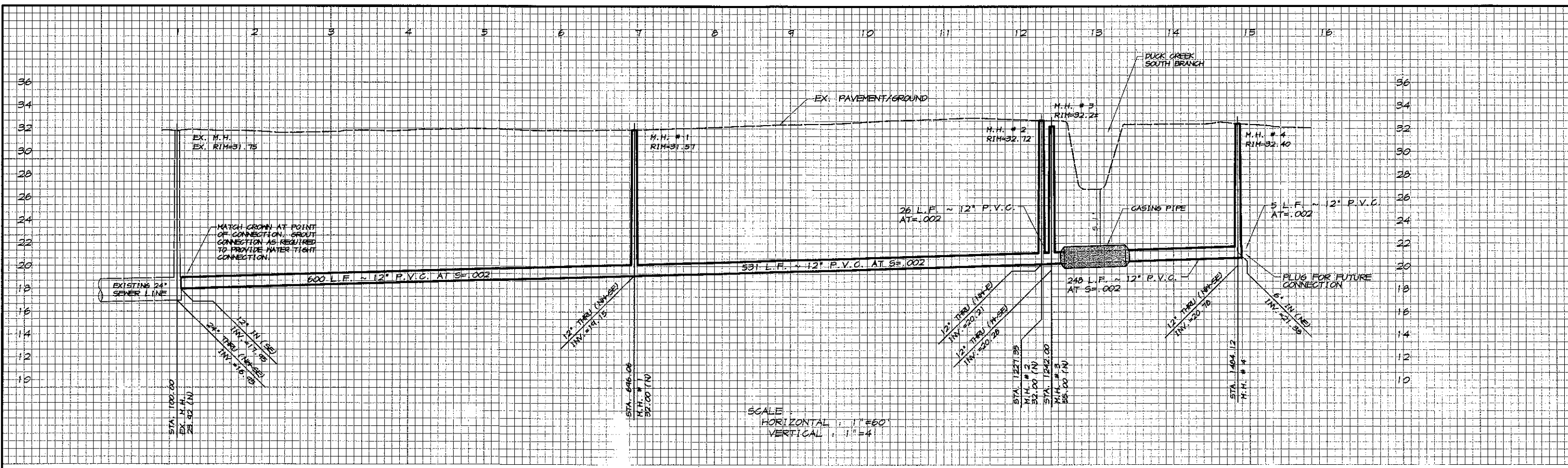
ASSOCIATED ENGINEERING GROUP
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ON-SITE WATER PLAN
4221 E. MARIPOSA ROAD IMPROVEMENTS

DESIGNED BY: <u>JEFF</u>		APPROVED BY: <u>9/19/18</u>		SHEET NO. <u>4</u>	
DRAWN BY: <u>JEFF</u>		FOR REFERENCE ONLY		OF 3 SHEETS	
CHECKED BY: <u>R.D.G.</u>		CITY ENGINEER		PROJECT NO. <u>987-15</u>	
RECORD DWG: <u>987-GRD</u>		STOCKTON, CALIF.			

REVISION	DESCRIPTION	DATE	BY	APPRD.

5324.3C

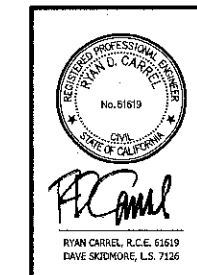


- LEGEND**
- EX. GROUND ELEVATION
 - EX. EDGE OF PAVEMENT ELEVATION
 - EX. A.C. PAVEMENT ELEVATION
 - EX. CURB AND GUTTER
 - EX. EDGE OF PAVEMENT
 - EX. SANITARY SEWER LINE
 - EX. MANHOLE
 - EX. CLEAN-OUT
 - EX. WATER LINE
 - EX. POWER POLE
 - EX. POLE WITH GUT ANCHOR
 - EX. SIGN
 - EX. ELECTRICAL BOX
 - EX. ELECTROLIER
 - EX. FENCE
 - EX. TREE, SPREAD DRAWN TO SCALE
 - EX. AREA OF CONCRETE
 - EX. AREA OF ASPHALT PAVEMENT
 - PROP. AREA OF SLURRY SEAL
 - PROP. SANITARY SEWER LINE
 - PROP. SANITARY SEWER LINE WITH CASING PIPE PER CITY OF STOCKTON STANDARD DWS NO. S-14.

BENCHMARK
CITY OF STOCKTON BENCHMARK NO. 409, BRASS DISC MARKING CITY OF STOCKTON MONUMENT STAMPED "145-21" IN A MONUMENT WELL LOCATED AT THE INTERSECTION OF FARMINGTON ROAD AND SINGLAIR AVENUE. ELEV. = 31.51, NAVD83.

- NOTES**
- CONTRACTOR SHALL FILL POTHOLE AS NECESSARY TO DETERMINE THE EXACT LOCATION OF THE EXISTING UTILITIES AT ALL LOCATIONS WHERE THE PLANS SHOWN CONNECTIONS TO THE EX. UTILITIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL BACKFILL TRENCH PER SAN JOAQUIN COUNTY STANDARD DETAIL R-24.
 - THE AFFECTED LANE(S) SHALL BE RESURFACED WITH A 2" A.C. OVERLAY WITH 1/2" HOT MIX ASPHALT 64-10 PER CALTRANS STANDARD SPECIFICATIONS.
 - THE ENTIRE ROADWAY WIDTH SHALL BE SLURRY SEALED AS SHOWN AND RE-STRIPPED IN KIND PER CALTRANS STANDARD SPECIFICATIONS. PRIOR TO PLACEMENT OF SLURRY SEAL, EXISTING PAVEMENT MARKINGS SHALL BE REMOVED PER CALTRANS STANDARD SPECIFICATIONS.
 - THE EXISTING LOOP-DETECTORS AND CONDUITS IN MARIPOSA ROAD SHALL REMAIN UNDISTURBED. SHOULD ANY DAMAGE TO THE LOOP-DETECTORS OCCUR, THEY SHALL BE REPLACED AS A GROUP AND NO SPLICES WILL BE ALLOWED. ANY DAMAGED CONDUITS SHALL BE REPLACED IN KIND AND NO REDUCING COUPLINGS WILL BE ALLOWED.
 - CONTRACTOR SHALL INSTALL SEWER PIPE BY JACK AND BORE METHOD UNDER DUCK CREEK SOUTH TO AVOID DISTURBANCE OF DUCK CREEK SOUTH. PIT LIMITS SHOWN ON THE PLAN ARE APPROXIMATE. EXACT LIMITS SHALL BE DETERMINED IN THE FIELD. CONSTRUCTION SHALL BE IN ACCORDANCE TO THE CITY OF STOCKTON STANDARD SPECIFICATIONS.

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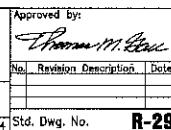
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PLAN AND PROFILE
SEWER MAIN EXTENSION
4221 E. MARIPOSA ROAD IMPROVEMENTS

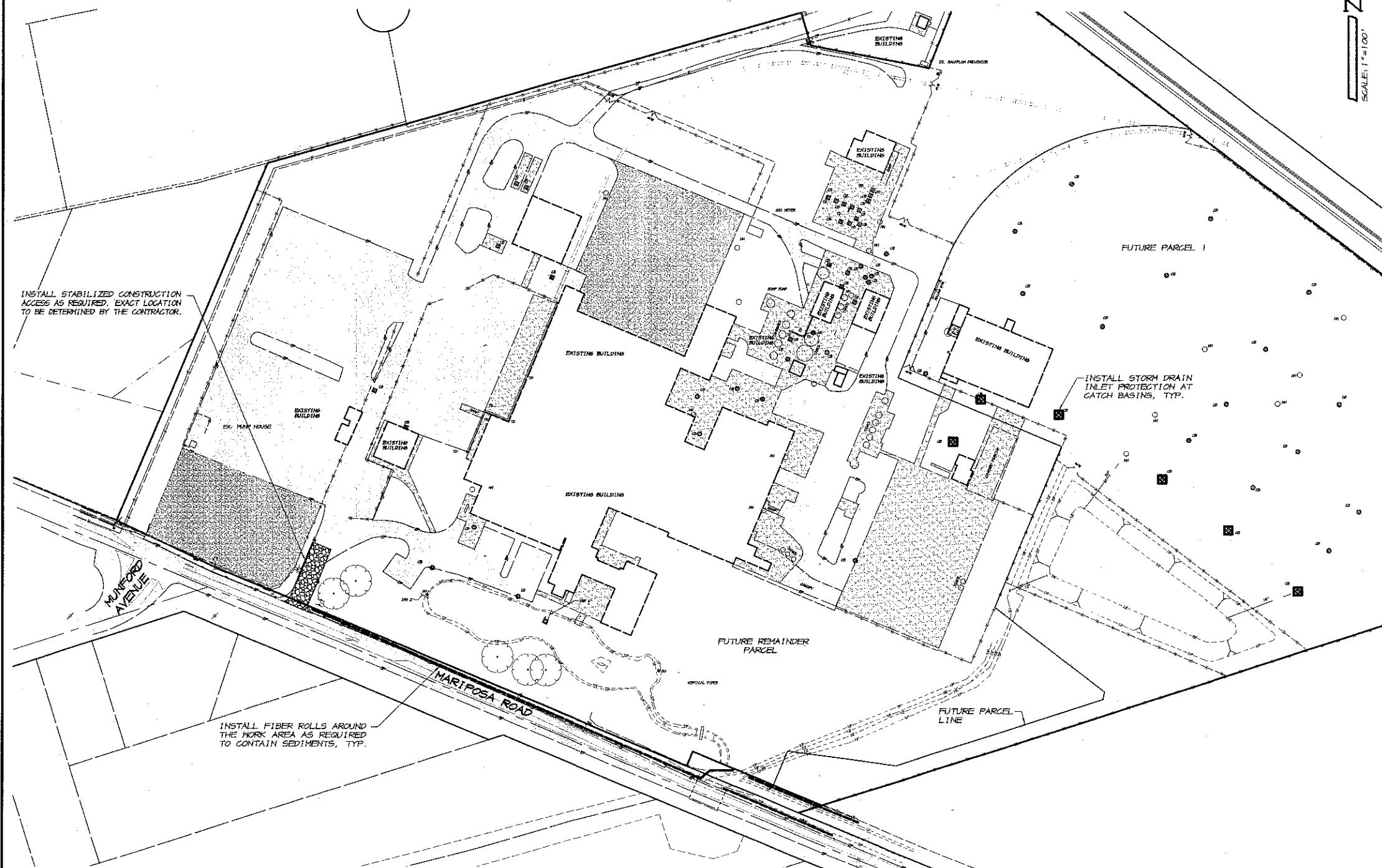
REVISION	DESCRIPTION	DATE	BY	APPROV.

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CA
SCALE: 1"=60'
DESIGNED BY: JEFF
DRAWN BY: JEFF
CHECKED BY: R.D.C.
RECORD DWS: 987-654
APPROVED BY: [Signature]
DATE: 9/19/08
SHEET NO. 5
OF 2 SHEETS
PROJECT NO. 987-15

5324.AC



5324.50



SCALE: 1"=100'

LEGEND

- EX. CURB AND GUTTER
- EX. EDGE OF PAVEMENT
- EX. MANHOLE
- EX. CLEAN OUT
- EX. STORM DRAIN LINE
- EX. CATCH BASIN
- EX. POWER POLE
- EX. POLE WITH GUY ANCHOR
- EX. SIGN
- EX. GUARD POST
- EX. TELEPHONE BOX
- EX. ELECTRICAL BOX
- EX. ELECTROLIER
- EX. FENCE
- EX. TREE, SPREAD DRAWN TO SCALE
- PROP. EROSION CONTROL METHOD AS NOTED AND AS PER DETAILS ON SHEET 8.

EROSION CONTROL NOTES

IN CASE OF EMERGENCY CALL:
NAME, TITLE, 24 HOUR PHONE NUMBER

THE CONTRACTOR SHALL IMPLEMENT THE "2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION 5.106.1 STORM WATER POLLUTION PREVENTION". THE CONTRACTOR SHALL PREVENT SOIL LOSS FROM STORM WATER RUN-OFF AND/OR WIND EROSION, OF SEDIMENTATION AND/OR OF DUST/PARTICULATE MATTER AIR POLLUTION. THE CONTRACTOR SHALL IMPLEMENT THE NECESSARY BEST MANAGEMENT PRACTICES (BMP'S) AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MONITORING AND MAINTENANCE OF BMP'S TO ENSURE THEIR EFFECTIVENESS THROUGH THE DURATION OF THE CONSTRUCTION PROCESS.

CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS BY THE CONTRACTOR.

THE APPROXIMATE AREA OF DISTURBED SOILS WITH THIS PROJECT IS 0.5 ACRES.

THE CONTRACTOR'S SUPERVISOR SHALL HAVE PRIMARY RESPONSIBILITY AND SIGNIFICANT AUTHORITY FOR THE IMPLEMENTATION, MAINTENANCE, INSPECTION OF THE MEASURES AS SHOWN ON THE PLAN. THE CONTRACTOR SHALL BE AVAILABLE AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT.

ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. REVISIONS MAY BE MADE TO THE PLAN IN THE FIELD BY THE CONTRACTOR.

WHILE NO STATE PERMIT IS REQUIRED, CONSTRUCTION BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE FOLLOWED. BMP'S INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

1. EROSION AND SEDIMENT CONTROL BMP'S:
 - A. SCHEDULING CONSTRUCTION ACTIVITY
 - B. PRESERVATION OF NATURAL FEATURES, VEGETATION AND SOIL
 - C. DRAINAGE SWALES OR LINED DITCHES TO CONTROL STORMWATER FLOW
 - D. MULCHING OR HYDROSEEDING TO STABILIZE DISTURBED SOILS
 - E. EROSION CONTROL TO PROTECT SLOPES
 - F. PROTECTION OF STORM DRAIN INLETS (GRAVEL BAGS OR CATCH BASIN INSERTS)
 - G. PERIMETER SEDIMENT CONTROL (PERIMETER SILT FENCE, FIBER ROLLS)
 - H. SEDIMENT TRAP OR SEDIMENT BASIN TO RETAIN SEDIMENT ON SITE
2. STABILIZED CONSTRUCTION EXITS
3. WIND EROSION CONTROL
4. HOUSEKEEPING BMP'S:
 - A. MATERIAL HANDLING AND WASTE MANAGEMENT
 - B. BUILDING MATERIALS STOCKPILE MANAGEMENT
 - C. MANAGEMENT OF WASHOUT AREAS (CONCRETE, PAINTS, STUCCO, ETC.)
 - D. CONTROL OF VEHICLE/EQUIPMENT FUELING TO CONTRACTOR'S STAGING AREA
 - E. VEHICLE AND EQUIPMENT CLEANING PERFORMED OFF-SITE
 - F. SPILL PREVENTION AND CONTROL



BENCHMARK

CITY OF STOCKTON BENCHMARK NO. 408, BRASS DISC MARKING CITY OF STOCKTON MONUMENT STAMPED "145-21" IN A MONUMENT WELL LOCATED AT THE INTERSECTION OF FARMINGTON ROAD AND SINCLAIR AVENUE. ELEV. = 31.51, NAVD88.



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DAVE SKIDMORE, L.S. 7126

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EROSION AND SEDIMENT CONTROL PLAN
4221 E. MARIPOSA ROAD IMPROVEMENTS

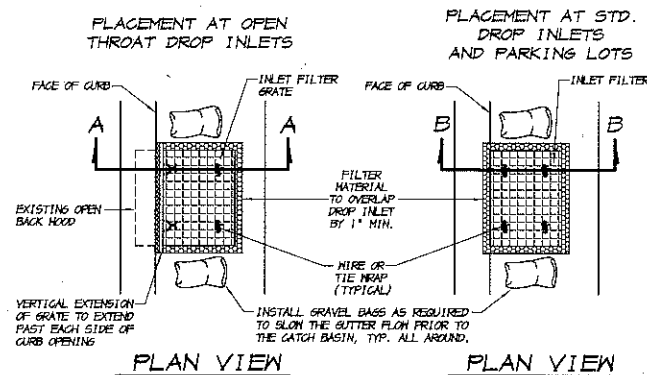
DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CA

REVISION	DESCRIPTION	DATE	BY	APPROV.

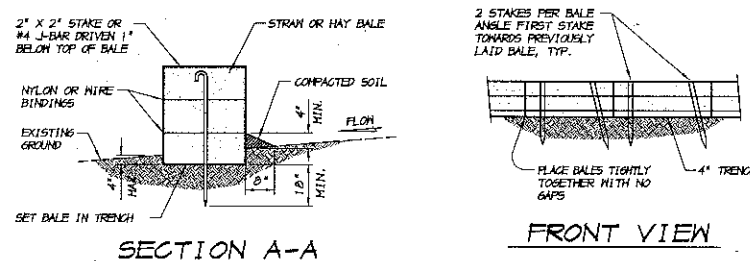
SCALE: 1"=100'	APPROVED BY: DATE: 9/19/11	SHEET NO. 7
DESIGNED BY: JEFF		OF 2 SHEETS
DRAWN BY: JEFF		PROJECT NO. 987-15
CHECKED BY: R.D.C.		
RECORD DWG: 987-GRD		

FOR REFERENCE ONLY
CITY ENGINEER
STOCKTON, CALIF.

5324.6C



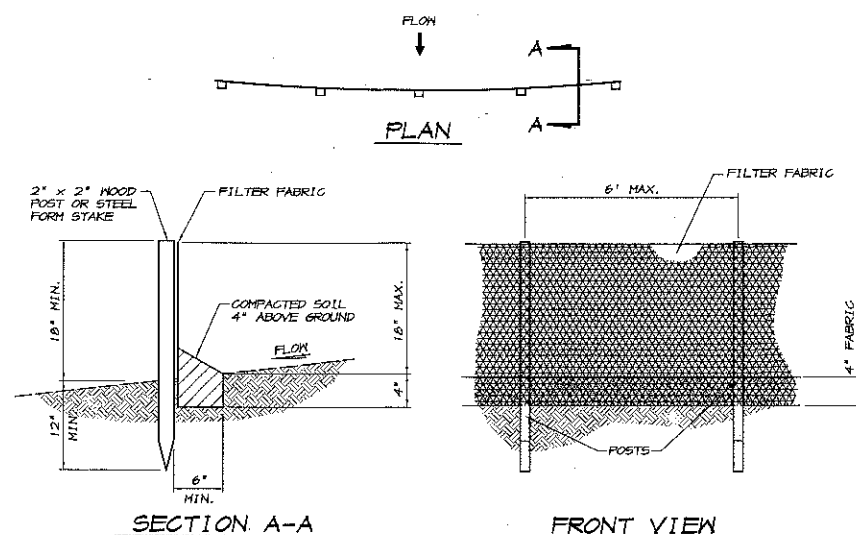
- NOTES**
1. THE MAXIMUM DRAINAGE AREA PER FILTER SHALL BE NO MORE THAN 1 ACRE.
 2. THE FILTER PAD SHALL BE CLEANABLE POLYESTER FIBER AND ACRYLIC LATEX RESIN OR APPROVED EQUAL. THE FILTER PAD SHALL OVERLAP DROP INLET ON ALL SIDES BY A MINIMUM OF 1 INCH.
 3. THE FILTER GRATE SHALL BE MADE OF EXPANDED METAL OF REBAR AND BE OF SUFFICIENT STRENGTH TO PREVENT BENDING WHEN DRIVEN OVER. GRATE MATERIAL SHALL NOT EXCEED 0.5" THICK. THE GRATE SHALL HAVE A MINIMUM 60% OPEN AREA. GRATES USED AT TYPE B AND E INLETS SHALL HAVE A VERTICAL EXTENSION TO COVER THE CURB OPENING. THE FILTER GRATE SHALL BE THE SAME SIZE AS THE DROP INLET GRATE.
 4. THE FILTER PAD AND GRATE SHALL BE SECURELY ATTACHED TO THE DROP INLET BY WIRE OR TIE-WRAPS.
 5. INLET FILTERS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL. REPAIRS AND SEDIMENT AND DEBRIS REMOVAL SHALL BE MADE AS NECESSARY.
 6. THE CONTRACTOR SHALL IMPLEMENT INLET PROTECTION AS PER THE REQUIREMENTS IN THE CALIFORNIA STORMWATER BMP HANDBOOK (CASQA) CONSTRUCTION FACT SHEET SE-10. TO PROVIDE DRAIN INLET PROTECTION FOR ALL CATCH BASINS LOCATED IN THE VICINITY OF THE WORK. THIS INCLUDES ANY CATCH BASINS LOCATED IN THE PUBLIC RIGHT-OF-WAY, AS WELL AS ANY ON-SITE CATCH BASINS LOCATED IN THE PARKING LOT.



- NOTES**
1. PLACE BALES IN 4 INCH DEEP TRENCH ALONG THE CONTOUR OF THE SLOPE IN THE SHAPE OF AN ARC WITH THE ENDS UPHILL OF THE ARC'S CENTER. BALES SHALL BE PLACED SO THAT BINDINGS ARE HORIZONTAL.
 2. BALES SHALL BE ANCHORED BY TWO 2" X 2" STAKES OR #4 J-BAR DRIVEN THROUGH THE BALE AND IN TO THE GROUND A MINIMUM DEPTH OF 18 INCHES. STAKES OR J-BARS SHALL BE DRIVEN 1 INCH OR MORE BELOW THE TOP OF THE BALE. THE FIRST STAKE OR J-BAR IN EACH BALE SHALL BE DRIVEN AT AN ANGLE TOWARDS THE PREVIOUSLY LAID BALE TO FORCE THE BALES TIGHTLY ABUTTED TOGETHER.
 3. AFTER BALES ARE STAKED IN PLACE, EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE UPHILL SIDE TO A MINIMUM HEIGHT OF 4 INCHES.
 4. CONTRACTOR SHALL INSPECT BALES WEEKLY AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE AS NECESSARY AND SEDIMENT SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO A DEPTH OF 6 INCHES. BALES SHALL BE REPLACED WHEN THEY HAVE BEEN DAMAGED, COLLAPSED OR DECOMPOSED.
 5. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE STRAW BALE BARRIER AS PER THE REQUIREMENTS IN THE CALIFORNIA STORMWATER BMP HANDBOOK (CASQA) CONSTRUCTION FACT SHEET SE-4.

STRAW BALE BARRIER

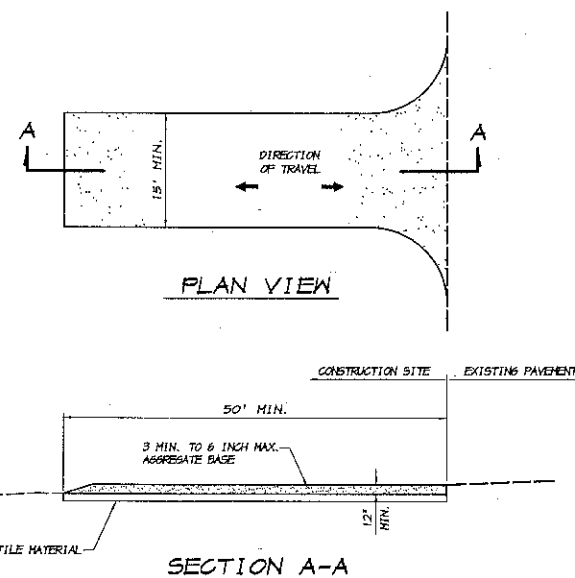
NO SCALE



- NOTES**
1. SILT FENCE SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS THE EXPECTED FLOW PATH AND AS APPROVED BY THE ADMINISTRATOR.
 2. FILTER FABRIC SHALL BE PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN WITH A MINIMUM TENSILE STRENGTH OF 50 LBS. PER LINEAR FOOT AT 20 PERCENT MAXIMUM ELONGATION AND CONTAINING ULTRAVIOLET INHIBITORS. FILTER FABRIC SHALL RETAIN A MINIMUM OF 85% OF THE SOIL, BY HEIGHT, BASED ON STEVE ANALYSIS, BUT IS NOT FINER THAN AN EQUIVALENT OPENING SIZE OF 70.
 3. SUPPORT POSTS SHALL BE A MINIMUM 90 INCHES LONG 2" X 2" WOOD POSTS OR STEEL FORM STAKES DRIVEN A MINIMUM OF 12 INCHES INTO THE GROUND. POSTS SHALL BE SPACED A MAXIMUM 6 FEET APART.
 4. A 4 INCH FABRIC TRENCH SHALL BE EXCAVATED ALONG THE UPHILL SIDE OF FILTER BARRIER POSTS. THE BOTTOM EDGE OF THE FABRIC SHALL EXTEND TO AND ACROSS THE BOTTOM OF THE TRENCH. THE TRENCH SHALL BE BACK FILLED TO 4 INCHES ABOVE GROUND AND COMPACTED TO BURY AND SECURE THE BOTTOM OF THE FILTER FABRIC.
 5. CONTRACTOR SHALL MAKE INSPECTIONS WEEKLY DURING THE WET SEASON, MONTHLY DURING THE DRY SEASON AND IMMEDIATELY AFTER EACH RAINFALL TO DETERMINE IF REPAIRS AND SEDIMENT REMOVAL IS REQUIRED. SEDIMENT SHALL BE REMOVED BEFORE IT HAS REACHED ONE THIRD THE HEIGHT OF THE FILTER FABRIC.
 6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE SILT FENCE AS PER THE REQUIREMENTS IN THE CALIFORNIA STORMWATER BMP HANDBOOK (CASQA) CONSTRUCTION FACT SHEET SE-1.

SILT FENCE

NO SCALE

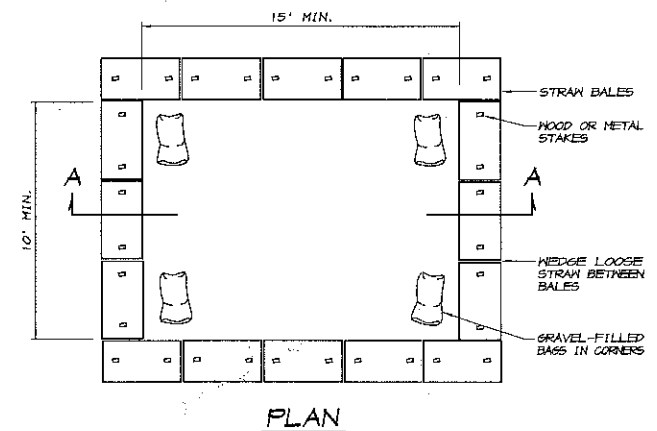
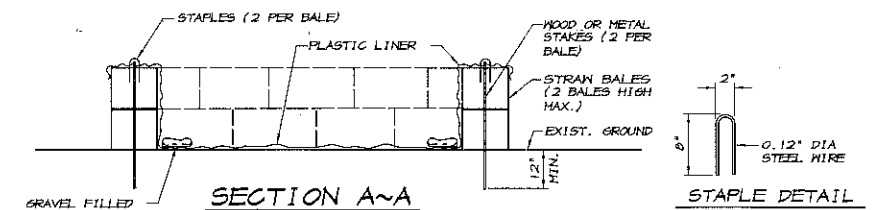


- NOTES**
1. STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 3" TO 6" MAX. AGGREGATE BASE MATERIAL CONFORMING TO CITY OR COUNTY STANDARDS. MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 12". THE METHOD OF PLACING, SPREADING AND COMPACTING AGGREGATE BASE MATERIAL SHALL CONFORM TO SECTION 26 OF THE STATE SPECIFICATIONS.
 2. LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50 FEET. WIDTH SHALL BE A MIN. OF 15 FEET OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADIUS.
 3. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH AGGREGATE ROCK MATERIAL OR CLEANING THE EXISTING ROCK.
 4. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL. WITH MAINTENANCE PROVIDED AS NECESSARY, PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.
 5. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE / EXIT AS PER THE REQUIREMENTS IN THE CALIFORNIA STORMWATER BMP HANDBOOK (CASQA) CONSTRUCTION FACT SHEET TC-1.

STABILIZED

CONSTRUCTION ENTRANCE / EXIT

NO SCALE



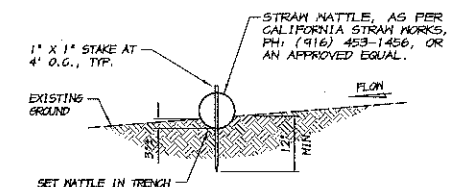
NOTE

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE CONCRETE WASHOUT AS PER THE REQUIREMENTS IN THE CALIFORNIA STORMWATER BMP HANDBOOK (CASQA) CONSTRUCTION FACT SHEET NM-8.

CONCRETE WASTE MANAGEMENT

CONCRETE WASHOUT

NO SCALE



NOTES

1. CONTRACTOR SHALL INSPECT FIBER ROLLS WEEKLY AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE AS NECESSARY AND SEDIMENT SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO A DEPTH OF 4 INCHES. NATTLIES SHALL BE REPLACED WHEN THEY HAVE BEEN DAMAGED, COLLAPSED OR DECOMPOSED.
2. WHERE FIBER ROLLS ARE TO BE PLACED ON EXISTING ASPHALT OR CONCRETE PAVEMENTS, THE ROLLS SHALL BE SECURED IN PLACE BY PLACING GRAVEL BAGS ON THE FIBER ROLL AT 8 FOOT MAXIMUM SPACING.
3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE FIBER ROLLS AS PER THE REQUIREMENTS IN THE CALIFORNIA STORMWATER BMP HANDBOOK (CASQA) CONSTRUCTION FACT SHEET SE-5.

FIBER ROLLS

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EROSION AND SEDIMENT CONTROL DETAILS
4221 E. MARIPOSA ROAD IMPROVEMENTS

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CA

REVISION	DESCRIPTION	DATE	BY	APPROV.

SCALE: NOTED	APPROVED BY: <i>JEFF</i>	DATE: 9/19/11	SHEET NO. 5
DESIGNED BY: <i>JEFF</i>	FOR REFERENCE ONLY	CITY ENGINEER	OF 2 SHEETS
DRAWN BY: R.D.C.	STOCKTON, CALIF.	PROJECT NO. 987-15	
RECORD DWG: 187-6RD			

5324.7C