



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-1800002
Date Issued: 01/02/2018
Start Date: 01/02/2018
Exp. Date: 04/01/2018
Project No: PWP730052
Quad: NE

UE/CR/PM NO:31312015

ENCROACHMENT PERMIT

To: PACIFIC GAS & ELECTRIC - STOCKTON
PO BOX 930
STOCKTON, CA 95201

Encroachment Type:

Trench			
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Location:

LIBERTY RD; NICHOLS RD; ST RT 99 FRONTAGE RD

In compliance with your request of 01/02/2018, 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

FORMS:

SS/WW, R-29		
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Est. Permit Fee: \$1,649.00

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

KRIS BALAJI, Director
Department of Public Works

By: TC
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.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 11/21/17

To: San Joaquin County
Department of Public Works

PG&E

(Applicant Name)

4040 WEST LANE

(Mailing Address)

STOCKTON, CA 95204

(City, State, Zip Code)

(408) 316-1767

(Area Code - Telephone Number)

(Email Address)

OFFICE USE ONLY

JOB # 730052 REF # _____
APN _____ CR# _____
EXP. DATE 4-1-18
VALID 1-28-18 TO 4-1-18 DRIVEWAYS: _____
STREET Liberty / Nichols / 99 Front *
AREA Acampo QUAD NE *
TYPE Trench *
FORMS SSW/WR29
NOTES _____

Sketch (Detailed plans may be submitted)

SEE ATTACHED SKETCH

31312015

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the North side of Liberty Rd approximately 0.05 feet/mile to E of CA 99 off Ramp, by performing the following work (description of work):
To install 2520' of 4" HP Plastic Distribution Main, 1037' of 2" HP Plastic Distribution Main and 175' of 1" HP Plastic Distribution Main & Services.

Work will commence on or after 01/28/2019 for approximately 60 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.

Permit Coordinator

Signature of Applicant - Title

Date

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

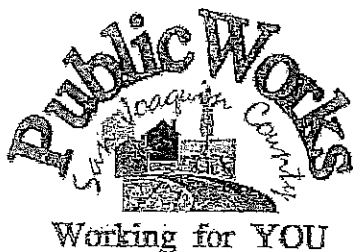
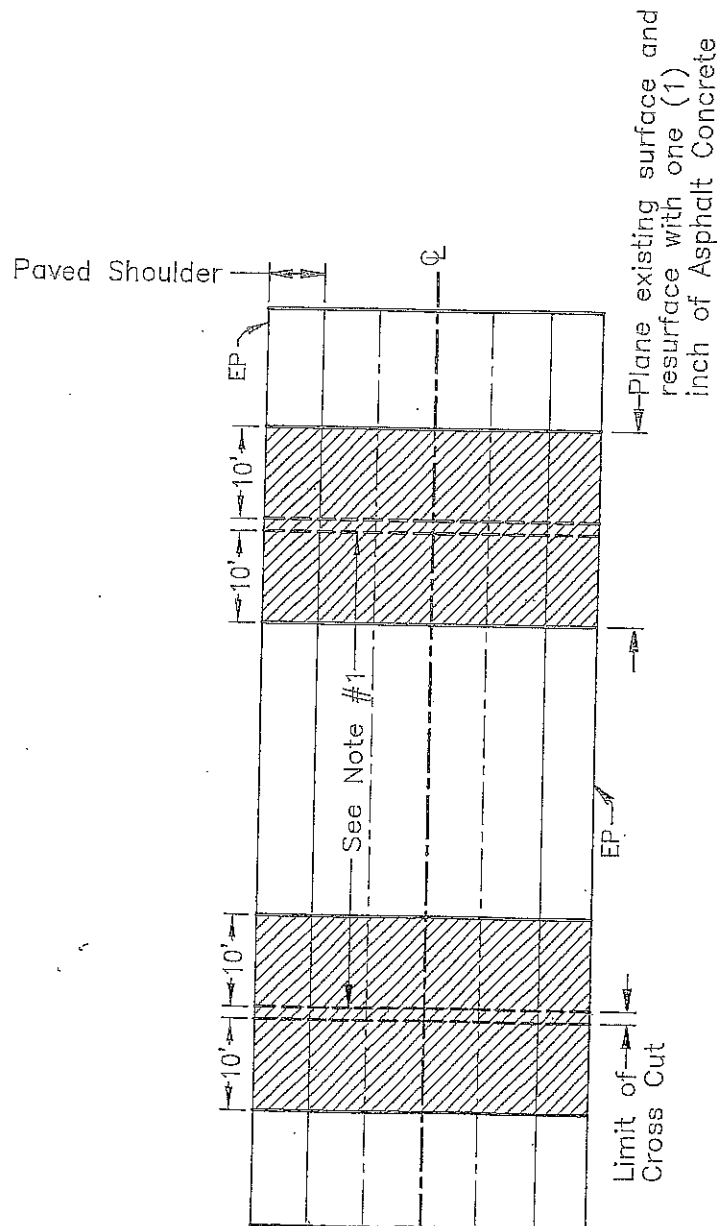
A. Surfacing Age Under Three (3) years: No pavement cuts allowed. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.

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).

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).



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

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by:

Michael J. Kelly

No.	Revision	Description	Date

Date: MAY 2015

Std. Dwg. No.

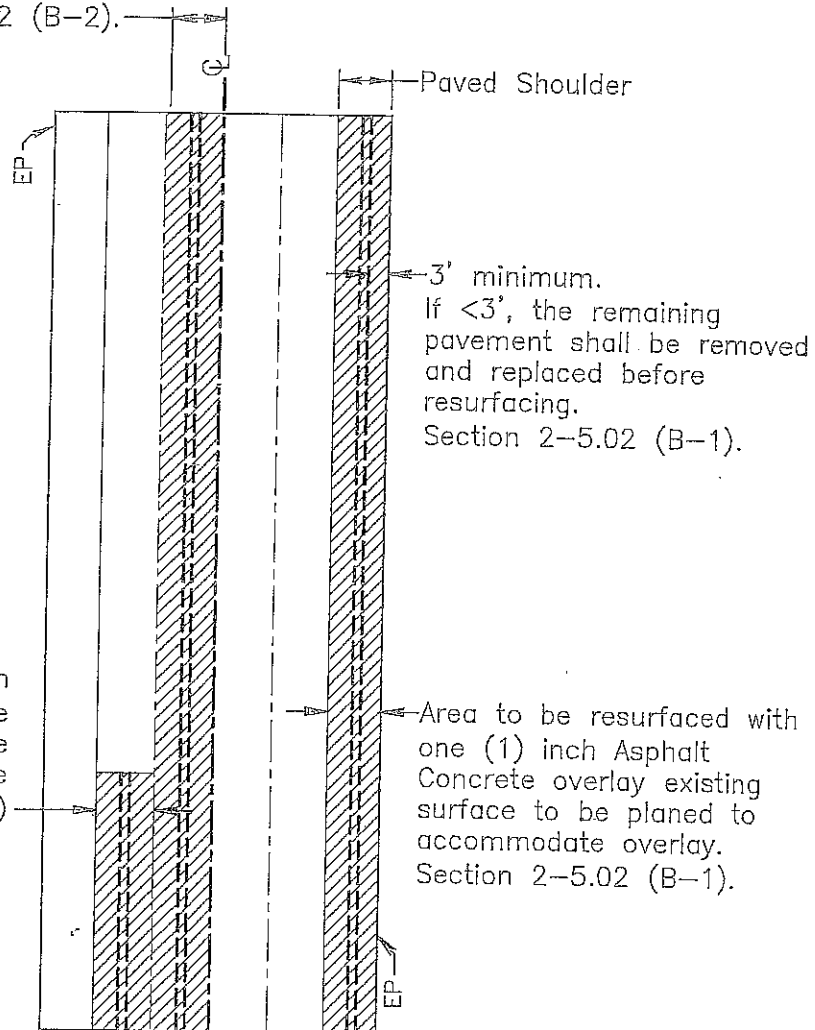
R-36

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).

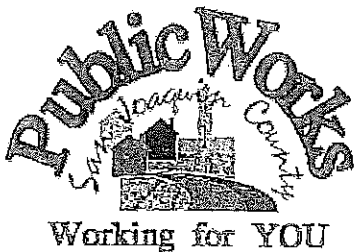
Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed, to accommodate overlay.

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

Approved by:

Michael Kellogg

No.	Revision	Description	Date

Std. Dwg. No.

R-37

Date: MAY 2015

SPECIAL CONDITIONS FOR
ENCROACHMENT PERMIT

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. The contractor shall submit traffic control plans for all signing, detours, and any lane closure impacting County right-of-way.
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. Restored fences shall not encroach into County 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 Department of Public Works Field Engineering Division, contact them at 209-953-7421.
7. 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.
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 PACIFIC GAS & ELECTRIC, including any facilities that are abandoned in place. PACIFIC GAS & ELECTRIC 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 PACIFIC GAS & ELECTRIC'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. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
12. 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.
13. The contractor shall use San Joaquin County Improvement 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.
14. Liberty Rd subject to pavement cuts shall receive a Type II Slurry Seal as per San Joaquin County Department of Public Works Improvement Standards Section 2-5.0 Trench Cut Policy. Shoulder areas shall be brought up to the finish grade as directed by the County.
15. 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 Department of Public Works Field Engineering Division, contact them at 209-953-7421.
16. No paving joints are allowed within paved shoulder; contractor shall pave all the way to outer edge of paved shoulder.
17. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.
18. 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.
19. 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. Utility vaults shall be located a minimum of 4'-0" from edge of pavement.
20. 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.
21. 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.
22. The contractor shall not conduct construction operations in rain or heavy fog conditions.

-IMPORTANT-
CURB BOX TOP SET
FLUSH WITH GRADE

-1/4" CHAMFER

10th

CUT EXTENSION TO
FIT OVER PIPE

CUT EXTENSION TO
FIT OVER PIPE

NOTES:

1. REPLACE ENTIRE SIDEWALK FLAG OR FLAGS WHEN INSTALLING.
2. TRIM EXTENSION MATERIAL TO FIT AROUND VALVE IN A MANNER WHICH MINIMIZES INFLUX OF DIRT. EXTENSION MATERIAL MAY BE CUT WITH A KNIFE OR HACKSAW.
3. TWO EXTENSION PIECES MAY BE JOINED BY MAKING SEVERAL LONGITUDINAL SLITS APPROX 4" LONG. SLIP SLIT END OVER OTHER PIECE.
4. VALVE BOX MUST BE INSTALLED SO AS TO AVOID TRANSMITTING EXTERNAL LOADS TO THE MAIN, §192.181 (C)(3).
5. CURB BOX DETAILS, SEE GAS STD. K-40.

CADD 021674 01-11-03

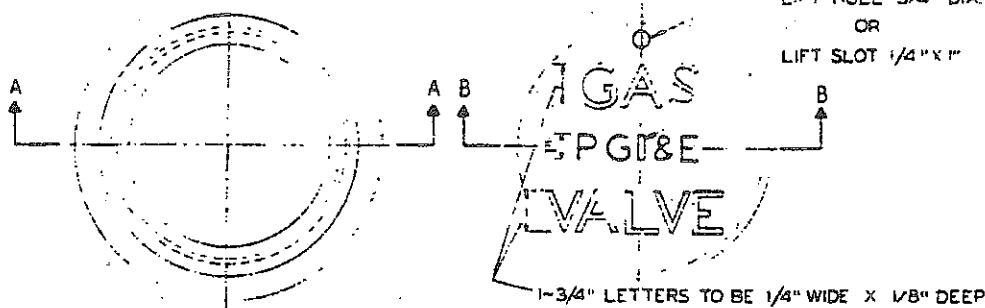
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GM	
SUPV DEPT GC & O	
DSGN	
DWG MD STEPHAN	
CHKD	
O K	ABO
DATE	SCALE
1-8-35	NONE

STRUCTURE-DETAILS
METHOD OF INSTALLING CONCRETE
CURB BOXES IN CONCRETE SIDEWALK
GAS STANDARD
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CAL.

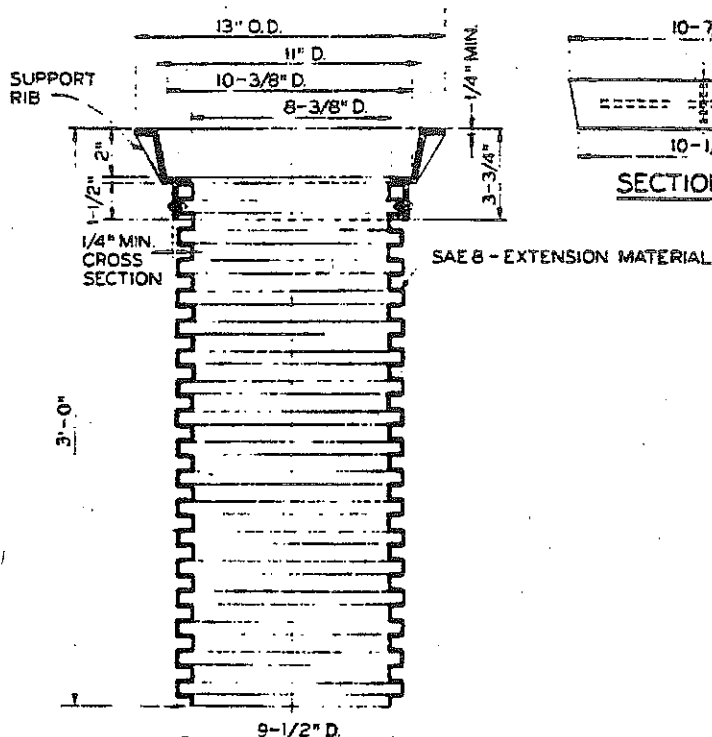
B/M	
DWG LIST	
SUPSDS	
SUPSD BY	
SHEET NO OF SHEETS	
DRAWING NUMBER	REV
080894	4

LIFT HOLE 3/4" DIA.
OR
LIFT SLOT 1/4" X 1"

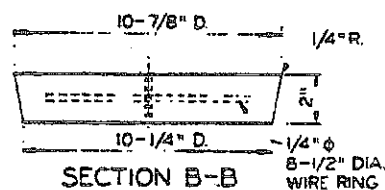


PLAN

VALVE BOX COVER



SECTION A-A
VALVE BOX BODY
FORM PF-36 OR EQUAL



SECTION B-B

1/4" R.
1/4" DIA.
8-1/2" DIA.
WIRE RING

SAE B - EXTENSION MATERIAL

NOTES:

1. PLASTIC VALVE BOX NOT APPROVED FOR USE IN STREETS OR OTHER AREAS WHERE VEHICULAR TRAFFIC MAY DAMAGE VALVE BOX, OR IN PAVED AREAS WHERE A CHANGE IN GRADE IS LIKELY. SEE GAS STD. K-41 FOR THESE APPLICATIONS.
2. FOR INSTALLATIONS IN AREAS WITH INCIDENTAL AND/OR LIGHT VEHICULAR TRAFFIC USE VALVE BOX SHOWN ON GAS STD. K-44.
3. LENGTH OF EXTENSION SHOULD BE INCREASED AS NECESSARY TO FIT OVER VALVE AND PIPE. CUT SECTION OF ADDITIONAL EXTENSION MATERIAL (CODE D1-6063) ABOUT 4" LONGER THAN INCREASE REQUIRED. CUT SEVERAL 4" LONG LONGITUDINAL SLITS IN BOTTOM OF VALVE BOX BODY AND SLIP EXTENSION SECTION INTO IT.
4. INSTALL PLASTIC VALVE BOX PER GAS STD. K-40.1.

PG&E CODES:

- (1) CONCRETE COVER: W/MARKING "GAS VALVE" 04-3039
W/MARKING "ANODE" 04-3141
W/MARKING "ETS" 04-3497
- (2) BODY: 04-3498
- (3) ADDITIONAL EXTENSION MATERIAL: D1-6063 (10' LENGTH)

APPROVED BY	2	4-8-69	CHG'D NOTE 2 TO NOTE 3 & ADDED NOTE 2.64; CHG'D 2'-0" TO 3'-0" PER SUGGESTION	ATG	RWP	10/1/74
CHK'D BY	1	6-10-69	DELETED C.T. COVER, REVISED NOTE 1, ADDED NOTE 2			
DATE	0	8-10-76	Issued for use.			
CHG		DATE		DESCRIPTION	BY	CH. APPD. CH
SUPV. BY GAS OPER.			STRUCTURE - DETAILS			
DSGN.			PLASTIC VALVE BOX			
DR. P. BISHOP			FOR 3/4" - 4" VALVES			
CH. H. FILTER			GAS STANDARD			
O.K.			PACIFIC GAS AND ELECTRIC COMPANY			
DATE			SAN FRANCISCO, CALIFORNIA			
11-7-74			SCALE			
3" = 1'-0"			SUPERSEDES 282201			
			SUPERSEDED BY			
			SHEET NO. SHEETS			
			284044 2			

14D PLASTIC MAIN REPLACEMENT

E. LIBERTY ROAD, NICHOLS ROAD, HWY 99 E. FRONTAGE ROAD

SAN JOAQUIN COUNTY

SEQUENCE OF EVENTS

1. TIE-IN AND INSTALL NEW MAIN
2. REPLACE AND TRANSFER SERVICES TO NEW MAIN
3. DEACTIVATE EXISTING MAIN

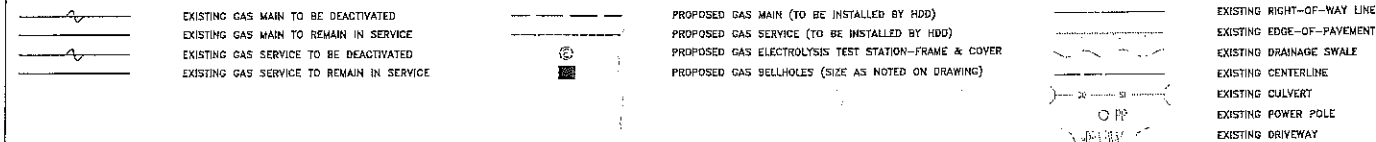
RECAP

1. INSTALL 2,520' OF 4" HP PLASTIC GAS DISTRIBUTION MAIN USING HORIZONTAL DIRECTIONAL BORING "HDB"
2. INSTALL 1,037' OF 2" HP PLASTIC GAS DISTRIBUTION MAIN USING HORIZONTAL DIRECTIONAL BORING "HDB"
3. INSTALL 175' OF 1" HP PLASTIC GAS DISTRIBUTION MAIN USING HORIZONTAL DIRECTIONAL BORING "HDB"
4. REPLACE BY INSTALLING NEW: 15 SERVICES WITH 1" PLASTIC AS SHOWN ON DRAWING
5. CUT, TEST & TRANSFER: 4 SERVICES WITH 1/2" PLASTIC AS SHOWN ON DRAWING
6. CUT, TEST & TRANSFER: 1 SERVICE WITH 1" PLASTIC AS SHOWN ON DRAWING
7. DEACTIVATE 2,520' OF EXISTING 3" HP PLASTIC GAS DISTRIBUTION MAIN
8. DEACTIVATE 562' OF EXISTING 2" HP PLASTIC GAS DISTRIBUTION MAIN
9. DEACTIVATE 475' OF 1-1/4" HP PLASTIC GAS DISTRIBUTION MAIN
10. DEACTIVATE 177' OF 1/2" HP PLASTIC GAS DISTRIBUTION MAIN

SCHEDULE OF SHEETS

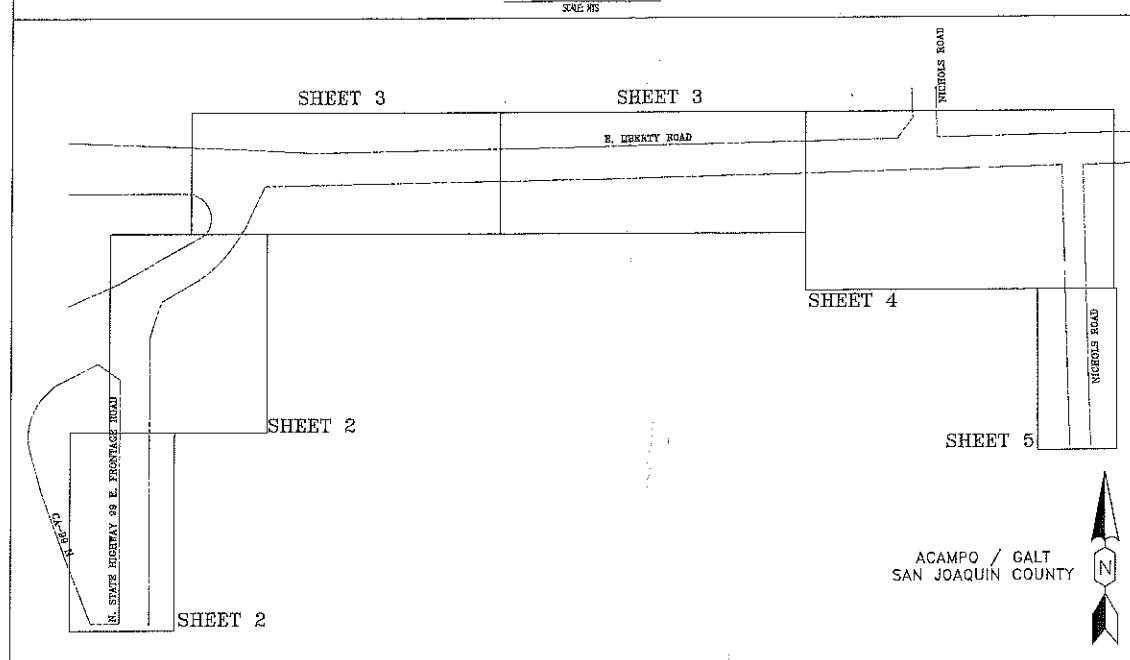
1. GENERAL CONSTRUCTION NOTES, TRENCHING AND CONSTRUCTION DETAILS
2. CONSTRUCTION PLAN VIEW AND DETAILS
3. CONSTRUCTION PLAN VIEW AND DETAILS
4. CONSTRUCTION PLAN VIEW AND DETAILS
5. CONSTRUCTION PLAN VIEW AND DETAILS

LEGEND



NOTE: NO KNOWN PUBLIC UTILITIES IN AREA

SHEET INDEX



STANDARD ABBREVIATIONS

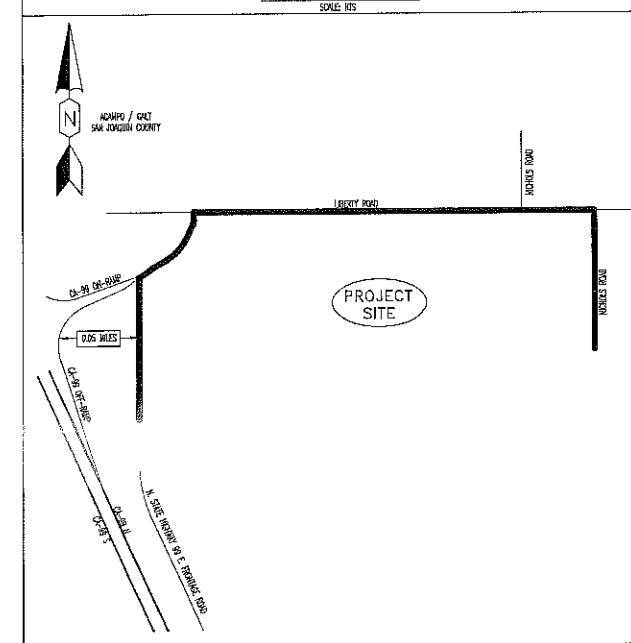
T	TIED INTO GAS SYSTEM
DE	DEAD-END GAS MAIN
HP	HIGH PRESSURE
STL	STEEL
PL	PLASTIC



CONTACTS

TITLE	NAME	PHONE
GAS ESTIMATOR	MARSHALL RIDDLE	(929) 347-5101
GAS A.D.E.	TISHA CARDOZA	(559) 347-5101
SUPERVISOR	HERMAN GREGORIO	(559) 347-5101
PROJECT MGR	FERNANDO ARMAS	(408) 483-8917
ENGINEER	AARON YU	(209) 932-6461
SR. GAS ENGINEER	KIRAN BAINS	(209) 932-6443
T&E SUPERVISOR	GUS QUIROZ	(209) 575-6567
CORROSION SUPERVISOR	CHAD WARD	(209) 759-0639

VICINITY MAP



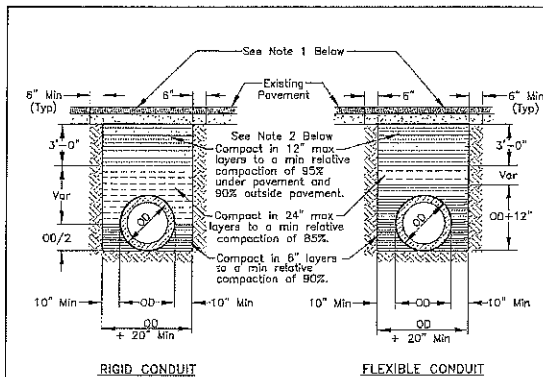
PERMIT

14D PLASTIC MAIN REPLACEMENT
E. LIBERTY ROAD, NICHOLS ROAD, HWY 99
E. FRONTAGE ROAD
SAN JOAQUIN COUNTY

ENGINEERING AND PLANNING DEPT.
8 RIVER PARK PLACE EAST
PESNO, CA 93720
PHONE: (559) 347-5101 FAX: (559) 347-5342
PACIFIC GAS AND ELECTRIC COMPANY

NO.	DATE	DESCRIPTION
1	10/27/2015	ISSUED FOR PERMIT

CO:	NOTED: 11/27/2015
SD:	NOTED: 11/27/2015
CHK:	NOTED: 11/27/2015
DATE:	11/27/2015
REV:	11/27/2015



- 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 Manual, test method No. California 218 or 231.
 4. All existing pavement shall be neatly cut to line prior to trench excavation.
 5. Jutting 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 compaction, 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.

Public Works
Working for YOU

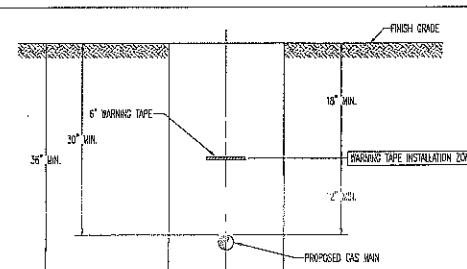
TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

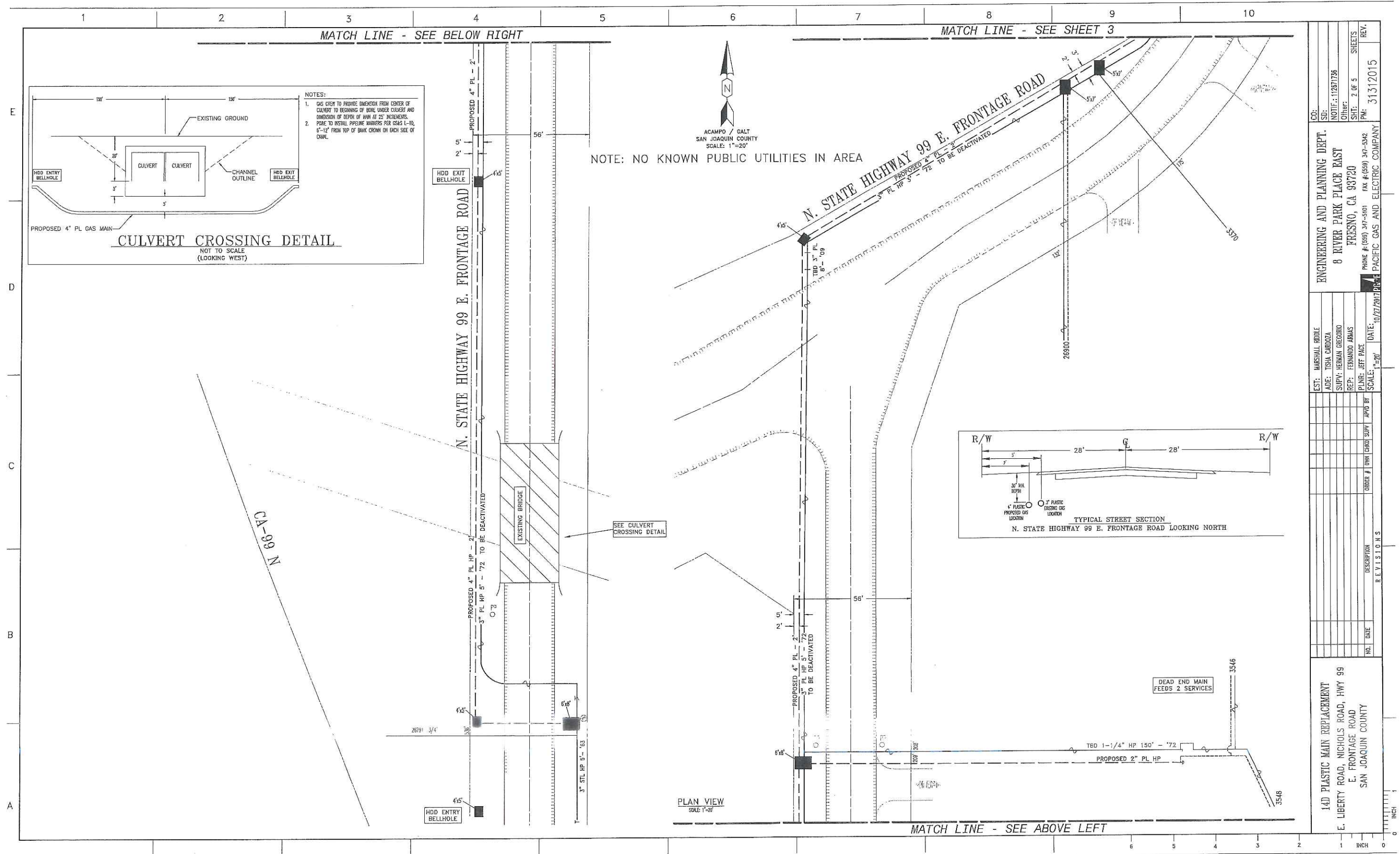
Approved by: *Thomas M. Esch*
Title: *Regional Administrator*
Date: *11/27/2015*

SM, Dwg. No. **R-29**
Date: DEC 2014

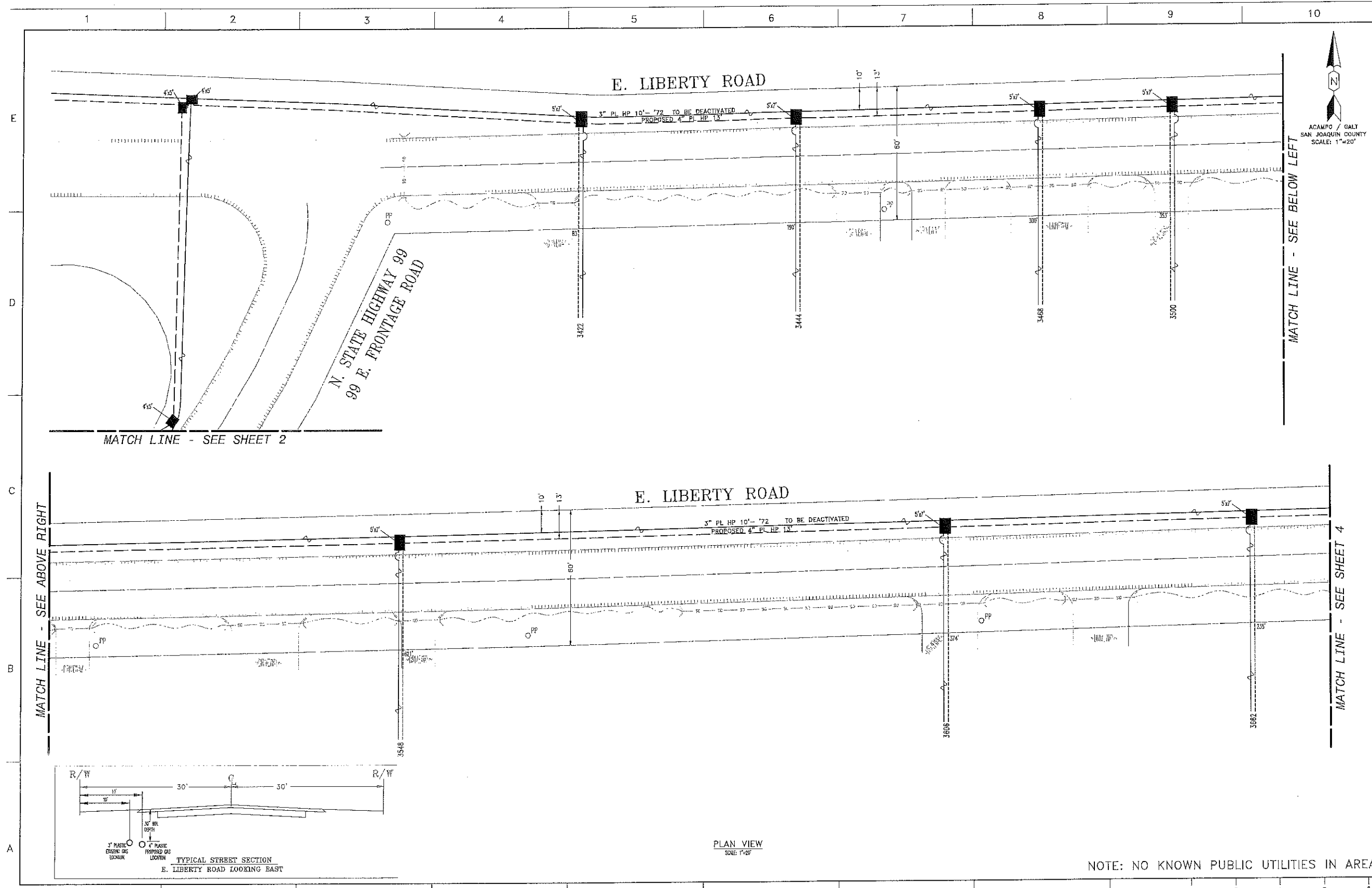
MINIMUM COVER REQUIREMENTS FOR GAS PIPELINE & CAUTION TAPE



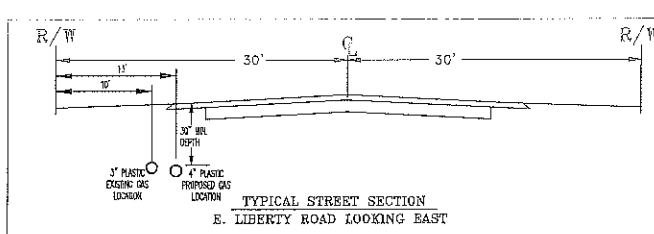
- NOTES:
1. TRENCHLESS METHODS TO BE USED FOR INSTALLATION OF MAINS & SERVICES WITH BELL HOLES TO POSITIVELY LOCATE 3RD PARTY SUBSTRUCTURES EXISTENCES AND FOR TIE-IN LOCATIONS.
 2. SEE COUNTY OF SAN JOAQUIN'S "TYPICAL TRENCH BACKFILL" STANDARD DRAWING "R-29", ON THIS SHEET, FOR PREVENT REPLACEMENT, BELLHOLE, INSTALL AND RELATIVE COMPACTION REQUIREMENTS.
 3. A WARNING TAPE IS TO BE INSTALLED IN OPEN TRENCH INSTALLATIONS OVER GAS PIPELINES IN BOTH TRANSMISSION AND DISTRIBUTION FACILITIES. THIS INCLUDES TRENCHES, BELL HOLES, EXCAVATIONS FOR REPAIR PURPOSES AND RISER REPLACEMENTS.



CO:		SD:	NOTED: 11/27/1736	Other:	SHEETS:	REV:
EST: MARSHALL RIDDLE		AD: TISHA CARROZA	SUPV: HERMAN GREGORIO		2 OF 5	31312015
REP: FERNANDO AMAS		PLNR: LEFT PAGE	DATE: 10/27/2017		PACIFIC GAS AND ELECTRIC COMPANY	
140 PLASTIC MAIN REPLACEMENT		E. LIBERTY ROAD, NICHOLS ROAD, HWY 99		E. FRONTAGE ROAD		SAN JOAQUIN COUNTY

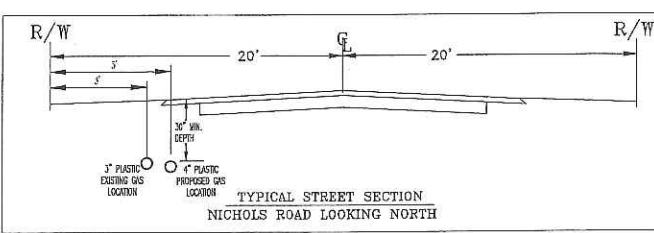
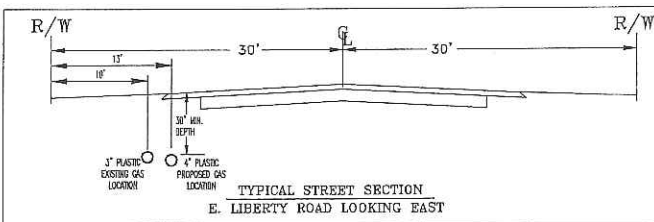
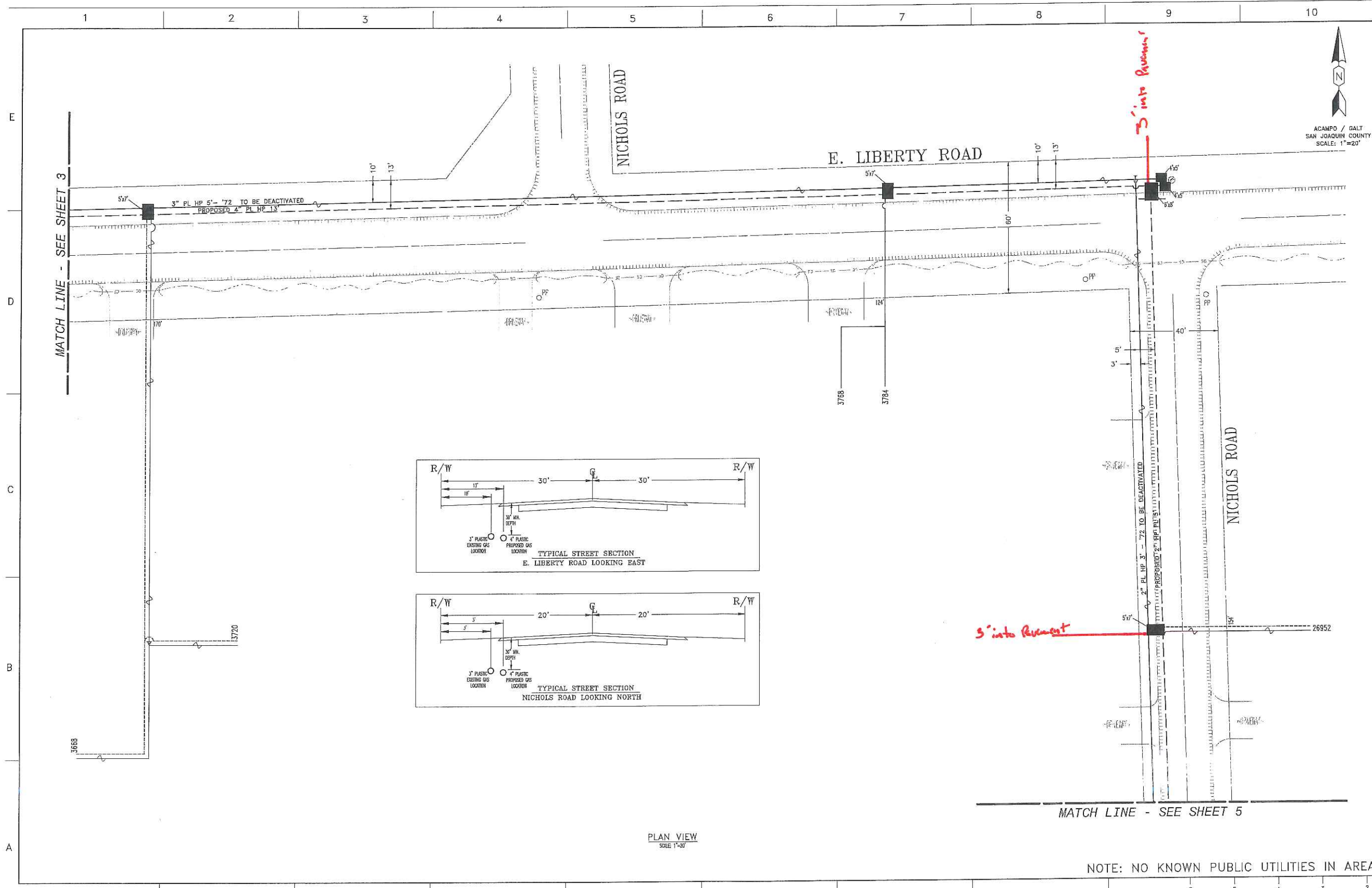


CO: SD: NOTED: 11/29/13 Other: SHEETS: 3 OF 5 PM: 31312015 REV.	
ENGINEERING AND PLANNING DEPT. 8 RIVER PARK PLACE EAST PRESNO, CA 93720 PHONE # (569) 347-5101 FAX # (569) 347-5342 PACIFIC GAS AND ELECTRIC COMPANY	
EST: MARSHALL RIDDLE AIDE: TISH CAROZA SUPV: FERNAN GREGORIO REP: FERNANDO ADIAS PLNR: JEFF PACE SCALE: 1"=20' DATE: 10/21/2013	ORDER # DWG (CRD) SUPV APVD BY NO. DATE DESCRIPTION REVISIONS
140 PLASTIC MAIN REPLACEMENT E. LIBERTY ROAD, NICHOLS ROAD, HWY 99 E. FRONTAGE ROAD SAN JOAQUIN COUNTY	



PLAN VIEW
SCALE: 1"=20'

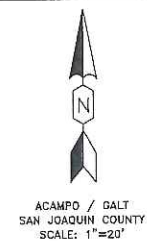
NOTE: NO KNOWN PUBLIC UTILITIES IN AREA



PLAN VIEW
SCALE 1"=20'

3" into River

3" into River

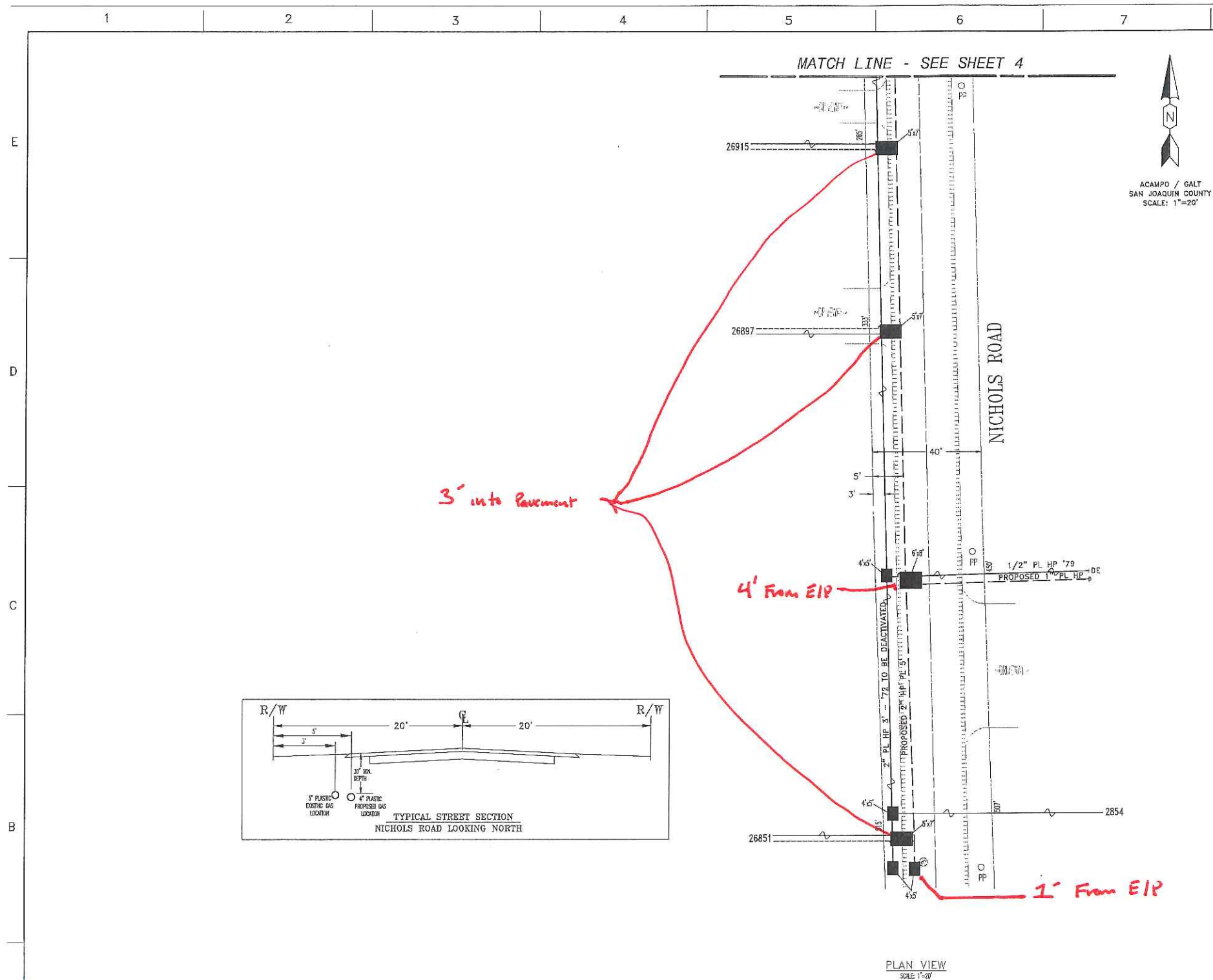


ACAMPO / GALT
SAN JOAQUIN COUNTY
SCALE: 1"=20'

MATCH LINE - SEE SHEET 5

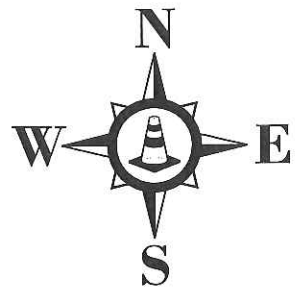
NOTE: NO KNOWN PUBLIC UTILITIES IN AREA

14D PLASTIC MAIN REPLACEMENT										ENGINEERING AND PLANNING DEPT.										CO:									
E. LIBERTY ROAD, NICHOLS ROAD, HWY 99										8 RIVER PARK PLACE EAST										SD:									
E. FRONTAGE ROAD										FRESNO, CA 93720										NOTIF.: 112571736									
SAN JOAQUIN COUNTY										REP: FERNANDO ARMAS										Other:									
ORDER #										PLNR: JEFF PACE										SHT: 4 OF 5									
NO.										DATE:										SHEETS									
DESCRIPTION										SCALE: 1"=20'										REV.									
R E V I S I O N S										DATE: 10/27/2017										PM: 31312015									
ORDER #										PHONE # (559) 347-5101										FAX # (559) 347-5342									
DATE										PACIFIC GAS AND ELECTRIC COMPANY																			



NOTE: NO KNOWN PUBLIC UTILITIES IN AREA

[illegible]



R30 24X24" Barricade mounted, placed on both sides of the street 20' apart 72hrs prior to the start of work.

mph	feet		Cones Spacing - feet	
SPEED	TAPER	SIGN SPACING	TAPER	TANGENT
25	125'	100'	25'	50'
30	180'	250'	30'	60'
35	245'		35'	70'
40	320'		40'	80'
45	540	500'	45'	90'
55	660'		50'	100'
Shifting(1/2taper)		Shoulder(1/3taper)		

PM# 31312015

Owner	SAN JOAQUIN COUNTY		
Project Location	Liberty Rd @ 99 Frontage Rd	Project City	Galt, CA
Prime Contractor	PG&E	Traffic Control Contractor	City Rise Services, Inc.
Phone	209-333-0807	Sheet Number	PS-1
Prepared By	CITY RISE SERVICES, INC		
Date	11/3/2017		

GAS

SIGNS BEING USED

- 48X48" W3-4
- 48X48" C9A (CA)
- 48X48" W20-4
- 48X48" W20-1

WORK ZONE

G20-5aP & R2-1 Barricade Mounted, placed 400' from Work Area

SPEED LIMIT 45

All flaggers will communicate through hand signals and walkie talkies with one another

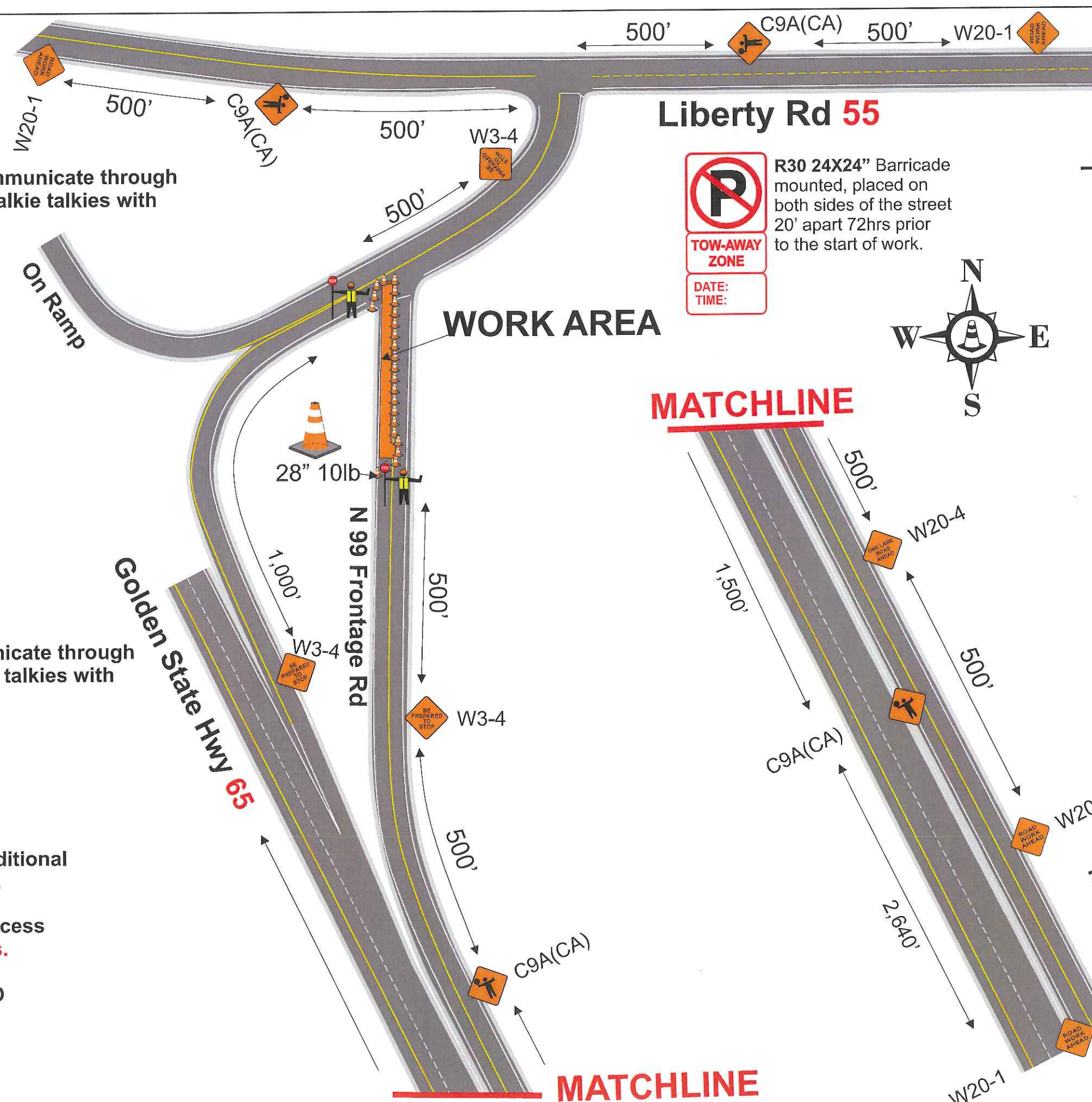
For TCP questions call
City Rise Services @
209-400-7075

See **SPEC SHEET 2** for additional traffic control stipulations.

Pedestrian and Bicycle Access to remain **open at all times.**

Traffic plan per CA MUTCD

HOURS OF WORK SHALL BE DETERMINED BY SAN JOAQUIN COUNTY



All flaggers will communicate through hand signals and walkie talkies with one another

WORK ZONE

SPEED LIMIT 45

G20-5aP & R2-1 Barricade Mounted, placed 400' from Work Area

All flaggers will communicate through hand signals and walkie talkies with one another

For TCP questions call
City Rise Services @
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Traffic plan per CA MUTCD

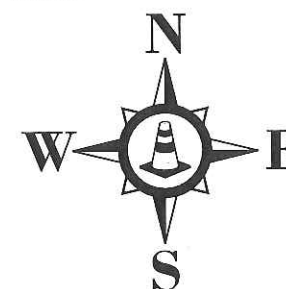
Liberty Rd 55



TOW-AWAY ZONE

DATE:
TIME:

R30 24X24" Barricade mounted, placed on both sides of the street 20' apart 72hrs prior to the start of work.



mph	feet	Cones Spacing - feet		
SPEED	TAPER	SIGN SPACING	TAPER	TANGENT
25	125'	100'	25'	50'
30	180'		30'	60'
35	245'		35'	70'
40	320'	250'	40'	80'
45	540'		45'	90'
55	660'	500'	50'	100'
Shifting(1/2taper)		Shoulder(1/3taper)		

PM# 31312015

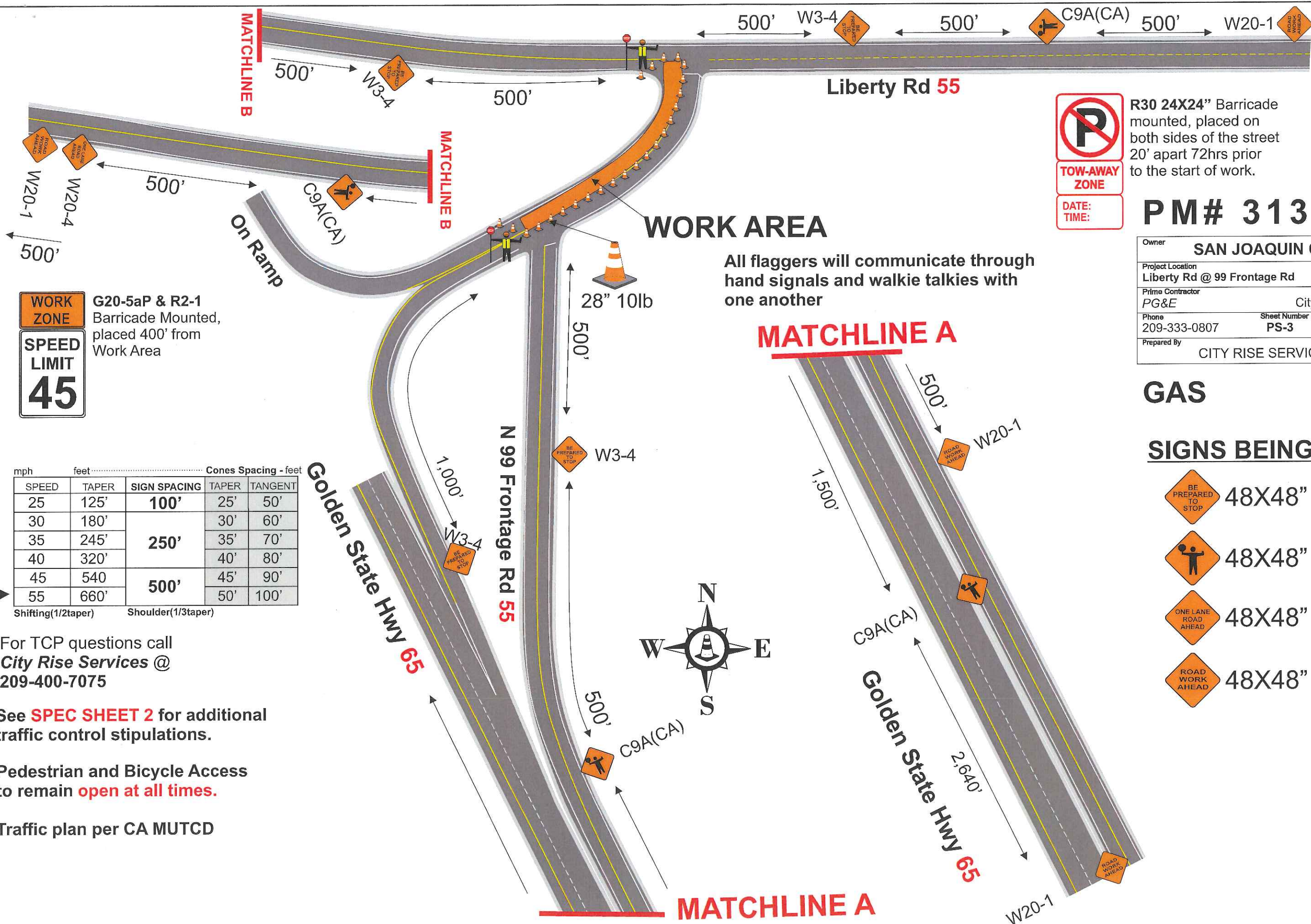
Owner SAN JOAQUIN COUNTY	
Project Location Liberty Rd @ 99 Frontage Rd	Project City Galt, CA
Prime Contractor PG&E	Traffic Control Contractor City Rise Services, Inc.
Phone 209-333-0807	Sheet Number PS-2
Date 11/3/2017	
Prepared By CITY RISE SERVICES, INC	

GAS

SIGNS BEING USED

- 48X48" W3-4
- 48X48" C9A (CA)
- 48X48" W20-4
- 48X48" W20-1

HOURS OF WORK SHALL BE DETERMINED BY SAN JOAQUIN COUNTY







R30 24X24" Barricade mounted, placed on both sides of the street 20' apart 72hrs prior to the start of work.

PM# 31312015

Owner SAN JOAQUIN COUNTY		
Project Location Liberty Rd @ 99 Frontage Rd	Project City Galt, CA	
Prime Contractor PG&E	Traffic Control Contractor City Rise Services, Inc.	
Phone 209-333-0807	Sheet Number PS-3	Date 11/3/2017
Prepared By CITY RISE SERVICES, INC		

GAS

SIGNS BEING USED

-  48X48" W3-4
-  48X48" C9A (CA)
-  48X48" W20-4
-  48X48" W20-1

WORK ZONE

G20-5aP & R2-1
Barricade Mounted,
placed 400' from
Work Area

SPEED LIMIT
45

mph	feet	Cones Spacing - feet			
SPEED	TAPER	SIGN SPACING	TAPER	TANGENT	
25	125'	100'	25'	50'	
30	180'		250'	30'	60'
35	245'			35'	70'
40	320'	40'		80'	
45	540	500'	45'	90'	
55	660'		50'	100'	
Shifting(1/2taper)		Shoulder(1/3taper)			

For TCP questions call
City Rise Services @
209-400-7075

See **SPEC SHEET 2** for additional
traffic control stipulations.

Pedestrian and Bicycle Access
to remain **open at all times.**

Traffic plan per CA MUTCD

HOURS OF WORK SHALL BE DETERMINED BY SAN JOAQUIN COUNTY

For TCP questions call
City Rise Services @
209-400-7075

See **SPEC SHEET 2** for additional
traffic control stipulations.

Pedestrian and Bicycle Access
to remain **open at all times**.

Traffic plan per CA MUTCD

SIGNS BEING USED

 **48X48" W3-4**

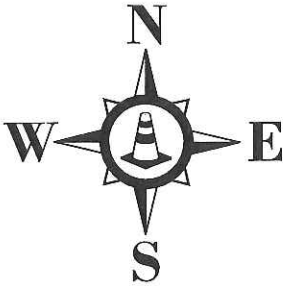
 **48X48" C9A (CA)**

 **48X48" W20-4**

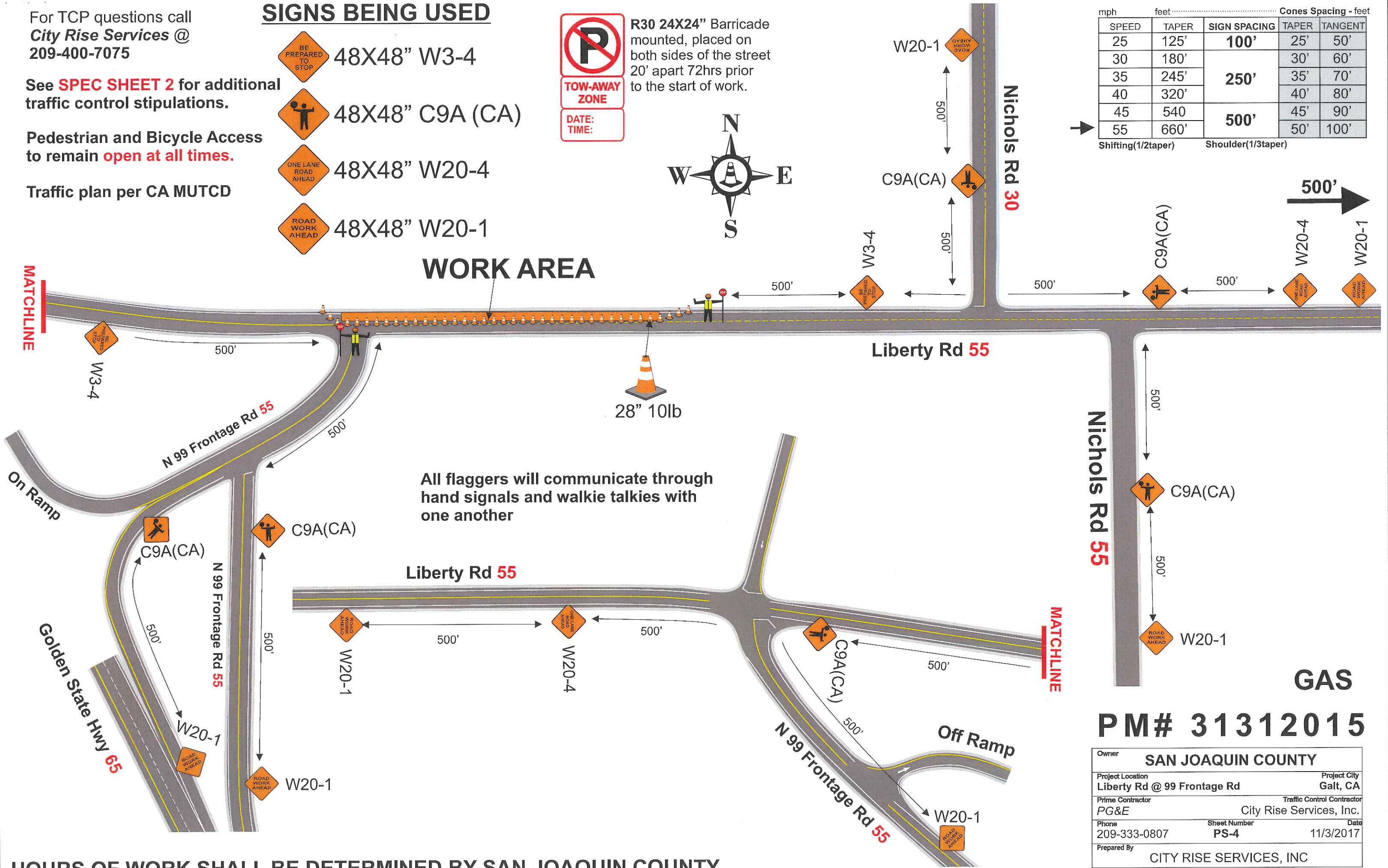
 **48X48" W20-1**



R30 24X24" Barricade
mounted, placed on
both sides of the street
20' apart 72hrs prior
to the start of work.



mph	feet	Cones Spacing - feet		
SPEED	TAPER	SIGN SPACING	TAPER	TANGENT
25	125'	100'	25'	50'
30	180'		30'	60'
35	245'	250'	35'	70'
40	320'		40'	80'
45	540'	500'	45'	90'
55	660'		50'	100'
Shifting(1/2taper)		Shoulder(1/3taper)		



GAS
PM# 31312015

Owner		SAN JOAQUIN COUNTY	
Project Location		Liberty Rd @ 99 Frontage Rd	
Project City		Galt, CA	
Prime Contractor		PG&E	
Traffic Control Contractor		City Rise Services, Inc.	
Phone		209-333-0807	
Sheet Number		PS-4	
Date		11/3/2017	
Prepared By		CITY RISE SERVICES, INC	

HOURS OF WORK SHALL BE DETERMINED BY SAN JOAQUIN COUNTY

For TCP questions call
City Rise Services @
209-400-7075

See **SPEC SHEET 2** for additional
traffic control stipulations.

Pedestrian and Bicycle Access
to remain **open at all times**.

Traffic plan per CA MUTCD

SIGNS BEING USED



48X48" W3-4



48X48" C9A (CA)



48X48" W20-4



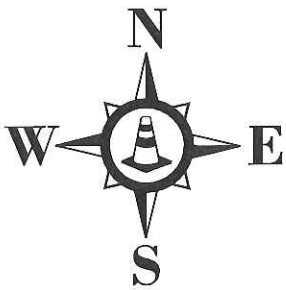
48X48" W20-1



**TOW-AWAY
ZONE**

**DATE:
TIME:**

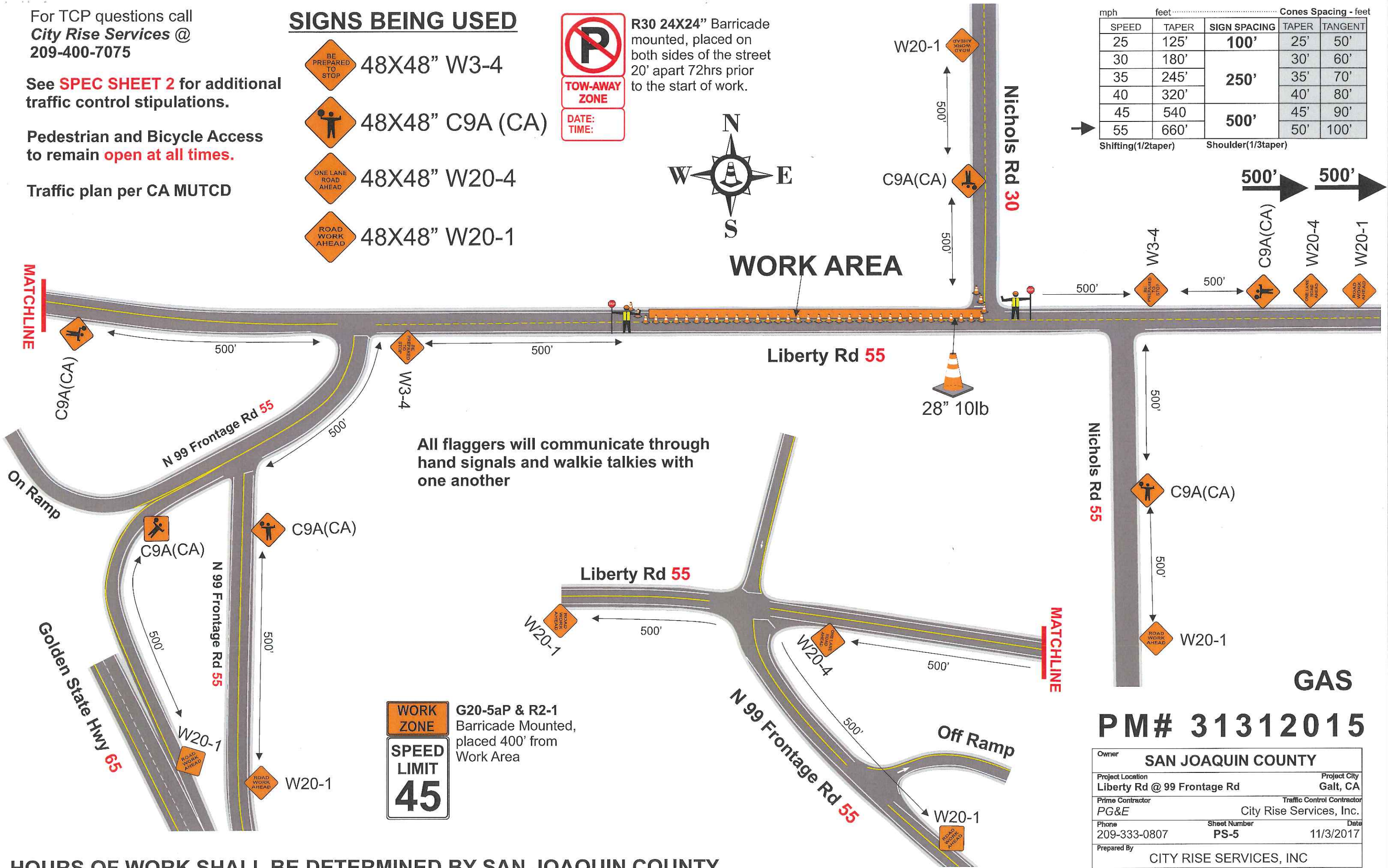
R30 24X24" Barricade
mounted, placed on
both sides of the street
20' apart 72hrs prior
to the start of work.



WORK AREA

mph	feet	Cones Spacing - feet		
SPEED	TAPER	SIGN SPACING	TAPER	TANGENT
25	125'	100'	25'	50'
30	180'		30'	60'
35	245'	250'	35'	70'
40	320'		40'	80'
45	540'	500'	45'	90'
55	660'		50'	100'

Shifting(1/2taper) Shoulder(1/3taper)



G20-5aP & R2-1
Barricade Mounted,
placed 400' from
Work Area

HOURS OF WORK SHALL BE DETERMINED BY SAN JOAQUIN COUNTY

GAS
PM# 31312015

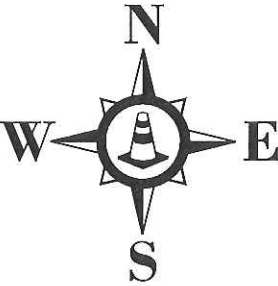
Owner SAN JOAQUIN COUNTY	
Project Location Liberty Rd @ 99 Frontage Rd	Project City Galt, CA
Prime Contractor PG&E	Traffic Control Contractor City Rise Services, Inc.
Phone 209-333-0807	Sheet Number PS-5
Date 11/3/2017	
Prepared By CITY RISE SERVICES, INC	

SIGNS BEING USED

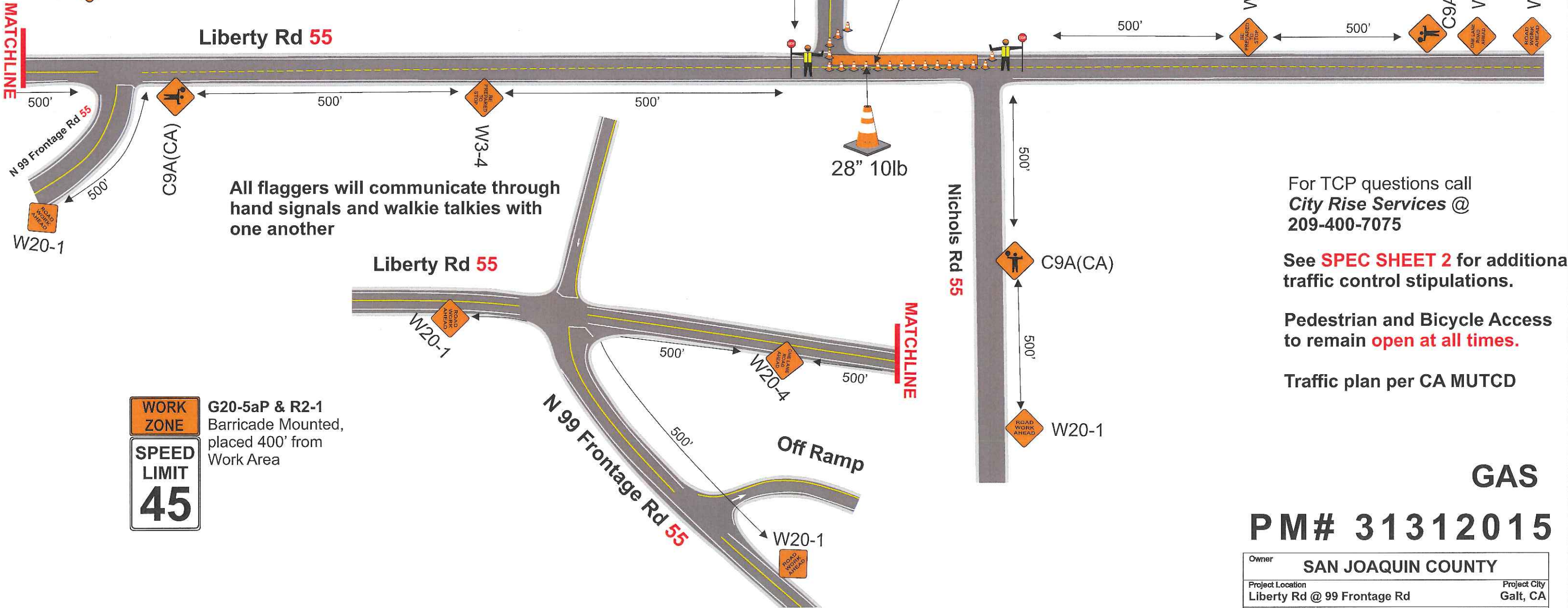
- 48X48" W3-4
- 48X48" C9A (CA)
- 48X48" W20-4
- 48X48" W20-1



R30 24X24" Barricade mounted, placed on both sides of the street 20' apart 72hrs prior to the start of work.



mph	feet	SIGN SPACING	Cones Spacing - feet	
			TAPER	TANGENT
25	125'	100'	25'	50'
30	180'		30'	60'
35	245'		35'	70'
40	320'	250'	40'	80'
45	540'		45'	90'
55	660'		50'	100'
Shifting(1/2taper)		Shoulder(1/3taper)		



WORK ZONE
G20-5aP & R2-1 Barricade Mounted, placed 400' from Work Area
SPEED LIMIT 45

For TCP questions call
City Rise Services @
209-400-7075

See **SPEC SHEET 2** for additional traffic control stipulations.

Pedestrian and Bicycle Access to remain **open at all times**.

Traffic plan per CA MUTCD

GAS

PM# 31312015

Owner SAN JOAQUIN COUNTY		
Project Location Liberty Rd @ 99 Frontage Rd	Project City Galt, CA	
Prime Contractor PG&E	Traffic Control Contractor City Rise Services, Inc.	
Phone 209-333-0807	Sheet Number PS-6	Date 11/3/2017
Prepared By CITY RISE SERVICES, INC		

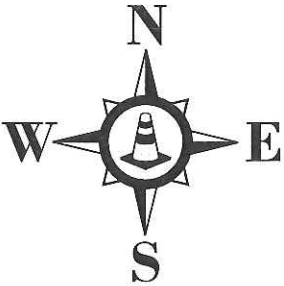
HOURS OF WORK SHALL BE DETERMINED BY SAN JOAQUIN COUNTY

SIGNS BEING USED

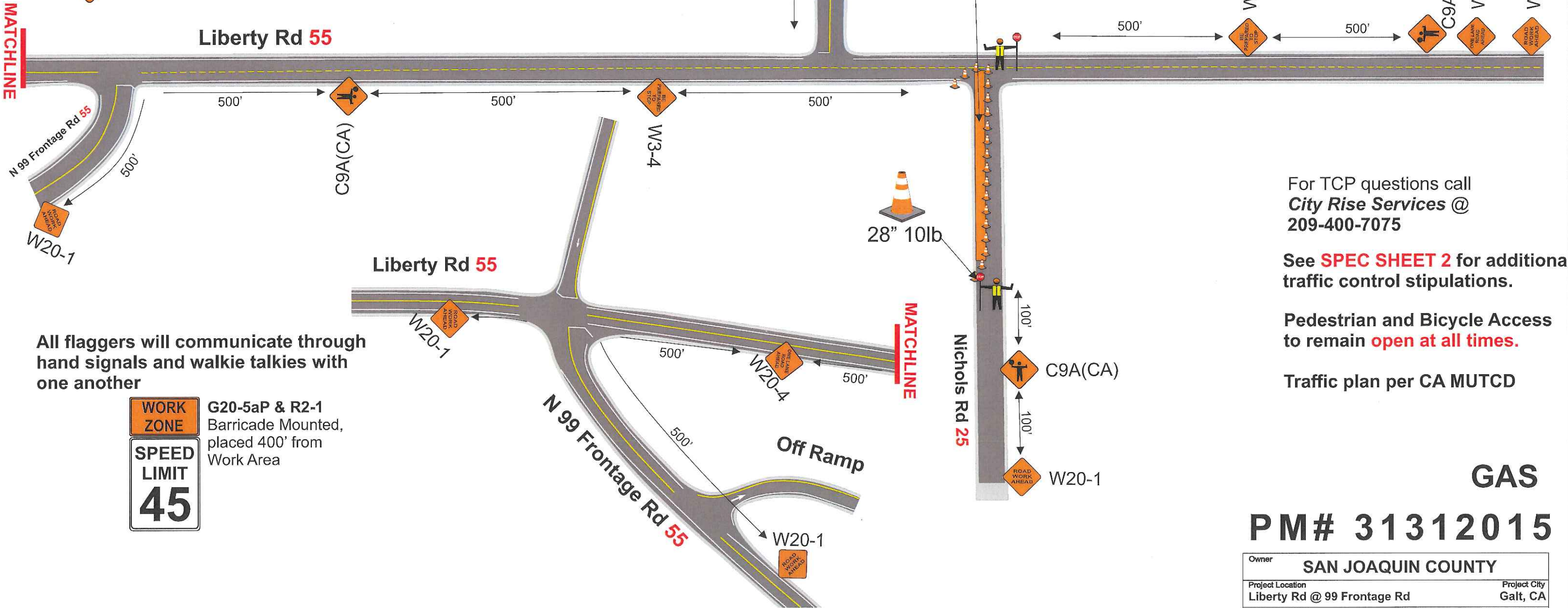
- 48X48" W3-4
- 48X48" C9A (CA)
- 48X48" W20-4
- 48X48" W20-1



R30 24X24" Barricade mounted, placed on both sides of the street 20' apart 72hrs prior to the start of work.



mph	feet	Cones Spacing - feet		
SPEED	TAPER	SIGN SPACING	TAPER	TANGENT
25	125'	100'	25'	50'
30	180'		30'	60'
35	245'		35'	70'
40	320'	250'	40'	80'
45	540'		45'	90'
55	660'		50'	100'
Shifting(1/2taper)		Shoulder(1/3taper)		



All flaggers will communicate through hand signals and walkie talkies with one another



G20-5aP & R2-1 Barricade Mounted, placed 400' from Work Area

For TCP questions call
City Rise Services @
209-400-7075

See **SPEC SHEET 2** for additional traffic control stipulations.

Pedestrian and Bicycle Access to remain **open at all times**.

Traffic plan per CA MUTCD

GAS

PM# 31312015

Owner	SAN JOAQUIN COUNTY		
Project Location	Liberty Rd @ 99 Frontage Rd	Project City	Galt, CA
Prime Contractor	PG&E	Traffic Control Contractor	City Rise Services, Inc.
Phone	209-333-0807	Sheet Number	PS-7
Prepared By	CITY RISE SERVICES, INC		
Date	11/3/2017		

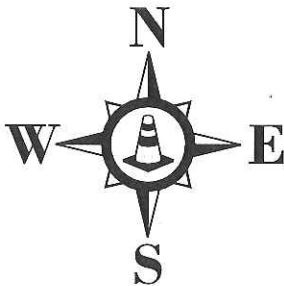
HOURS OF WORK SHALL BE DETERMINED BY SAN JOAQUIN COUNTY

SIGNS BEING USED

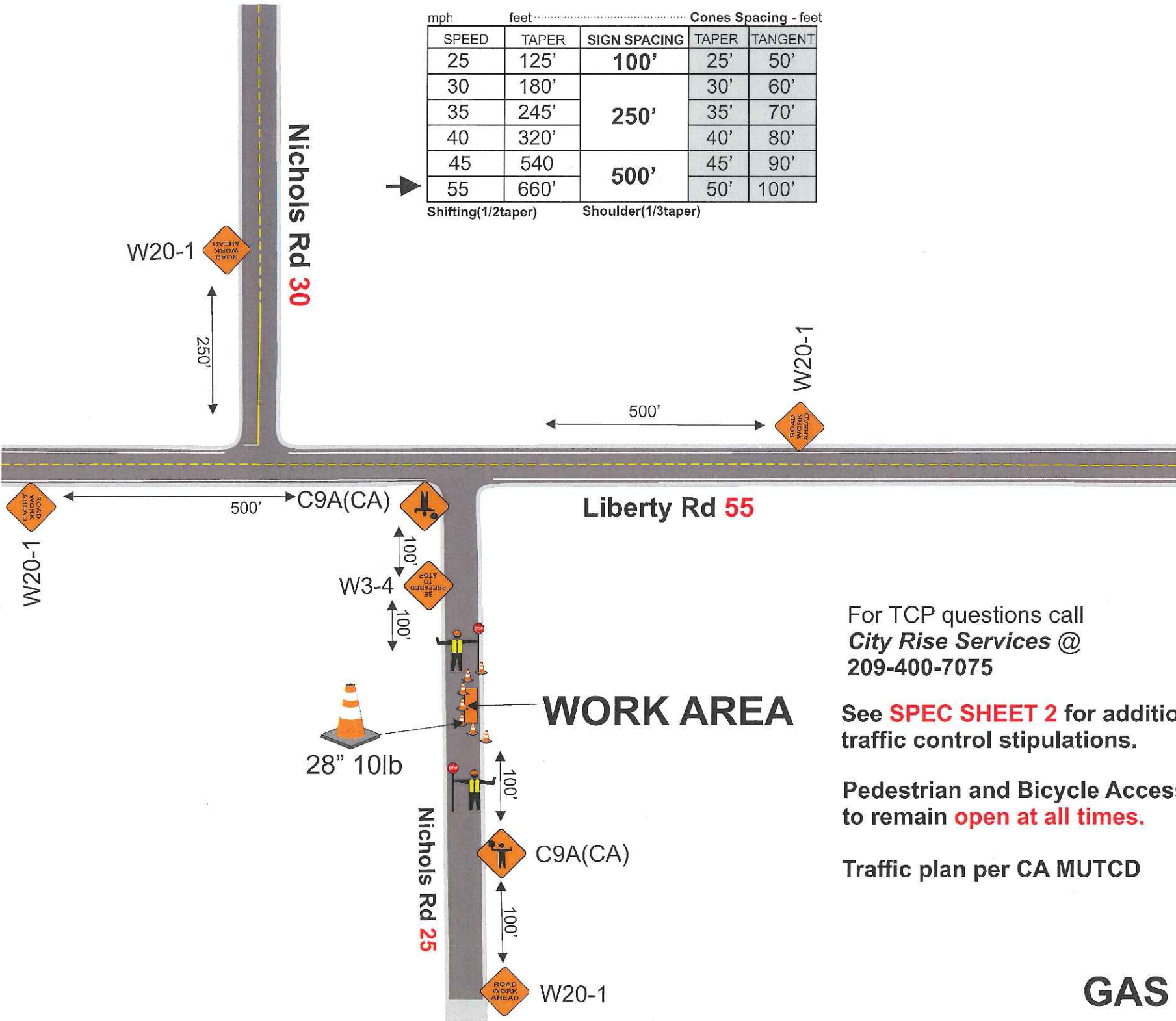
-  48X48" W3-4
-  48X48" C9A (CA)
-  48X48" W20-1



R30 24X24" Barricade mounted, placed on both sides of the street 20' apart 72hrs prior to the start of work.



mph	feet	SIGN SPACING	Cones Spacing - feet	
			TAPER	TANGENT
25	125'	100'	25'	50'
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35	245'		35'	70'
40	320'	250'	40'	80'
45	540'		45'	90'
55	660'		50'	100'
Shifting(1/2taper)		Shoulder(1/3taper)		



For TCP questions call
City Rise Services @
209-400-7075

See **SPEC SHEET 2** for additional
traffic control stipulations.

Pedestrian and Bicycle Access
to remain **open at all times.**

Traffic plan per CA MUTCD

WORK
ZONE

SPEED
LIMIT
45

G20-5aP & R2-1
Barricade Mounted,
placed 400' from
Work Area

All flaggers will communicate through
hand signals and walkie talkies with
one another

NOT TO SCALE

HOURS OF WORK SHALL BE DETERMINED BY SAN JOAQUIN COUNTY

GAS
PM# 31312015

Owner SAN JOAQUIN COUNTY		
Project Location Liberty Rd @ 99 Frontage Rd	Project City Galt, CA	
Prime Contractor PG&E	Traffic Control Contractor City Rise Services, Inc.	
Phone 209-333-0807	Sheet Number PS-8	Date 11/3/2017
Prepared By CITY RISE SERVICES, INC		