BRT III ON HAMMER LANE
STOCKTON, CA

TRAFFIC CONTROL LOCATIONS
FOR
OPTICOM, CABINETS AND CAMERA INSTALLS

		WEST BOUND TRAFFIC					SOUTH BOUND TRAFFIC					EAST BOUND TRAFFIC					NORTH BOUND TRAFFIC				
		LEFT TURN POCKET CLOSURE (TCP-3)	LEFT / CENTER LANE CLOSURE (TCP-2)	RIGHT LANE CLOSURE TCP-1)	DOUBLE TURN-POCKET (TCP-5)	SHOULDER CLOSURE (TCP-4)	LEFT TURN POCKET CLOSURE (TCP-3)	LEFT / CENTER LANE CLOSURE (TCP-2)	RIGHT LANE CLOSURE TCP-1)	DOUBLE TURN-POCKET (TCP-5)	SHOULDER CLOSURE (TCP-4)	LEFT TURN POCKET CLOSURE (TCP-3)	LEFT / CENTER LANE CLOSURE (TCP-2)	RIGHT LANE CLOSURE TCP-1)	DOUBLE TURN-POCKET (TCP-5)	SHOULDER CLOSURE (TCP-4)	LEFT TURN POCKET CLOSURE (TCP-3)	LEFT / CENTER LANE CLOSURE (TCP-2)	RIGHT LANE CLOSURE TCP-1)	DOUBLE TURN-POCKET (TCP-5)	SHOULDER CLOSURE (TCP-4)
1	HAMMER LANE @ MARINERS DRIVE				**	X					X					X					X
C1 2	HAMMER LANE @ KELLY DRIVE		X					X					X		**			X			
3	HAMMER LANE @ RICHLAND WAY		X								X		X								X
4	HAMMER LANE @ DON AVENUE/MEADOW AVENUE		X		**					**	X		X					X	C4		
5	HAMMER LANE @ ALEXANDRIA PLACE		X								X	X									X
6	HAMMER LANE @ N. PERSHING AVENUE		X				X						X				X				
7	HAMMER LANE @ THORNTON ROAD										X										
8	HAMMER LANE @ N. LOWER SACRAMENTO ROAD					X															
9	HAMMER LANE @ ETNA STREET		X					X					X	X							
10	HAMMER LANE @ N. EL DORADO STREET				**										**	X		X			
11	HAMMER LANE @ LAN ARK DRIVE			X																	
12	HAMMER LANE @ TAM O' SHANTER DRIVE		X					X		**			X							**	X
13	HAMMER LANE @ WEST LANE		X		**			X		**			X		**			X		**	
14	HAMMER LANE @ NORMANDY VILLAGE DRIVE													X							
15	HAMMER LANE @ MONTAUBAN AVENUE		X	X	**			X					X		**			X	X		
16	HAMMER LANE @ LORRAINE AVENUE		X							**	X		X					X			
C2 17	HAMMER LANE @ GIRARDI WAY		X								X		X								X
18	HAMMER LANE @ HOLMAN ROAD		X		**			X		**			X		**			X		**	X
19	HAMMER LANE @ SAMPSON ROAD		X					X					X	C3							X
20	HAMMER LANE @ MARANATHA DRIVE		X		**			X		**	X		X					X		**	

X LANE CLOSURES AS INDICATED

C1 CABINET WORK WILL UTILIZE ISLAND AND FRONTAGE ROAD FOR STAGING AREA (I.E.: NO RIGHT LANE CLOSURE REQUIRED)
C2 UTILIZE PARKING LOT ACCESS FOR CONTROLLER WORK
C3 RIGHT LANE CLOSURE REQUIRED FOR CABINET WORK
C4 RIGHT LANE CLOSURE REQUIRED FOR CABINET WORK

** CLOSE ONE (1) LANE OF DOUBLE LANE TURN POCKET

+ CMS: "ROAD WORK
from __ to __
EXPECT DELAYS"

Place 7 days prior work commence + through construction

NOTES:

1.) FLAGGER CONTROL IS NEEDED WHEN SIGNALS GO DARK (IE: CONTROLLER REPLACEMENT).
2.) NOTIFY CITY TRAFFIC ENGINEER AT LEAST THREE WORKING DAYS IN ADVANCE OF ANY LANE CLOSURE BECAUSE SIGNAL TIMING CHANGES MY BE NECESSARY.

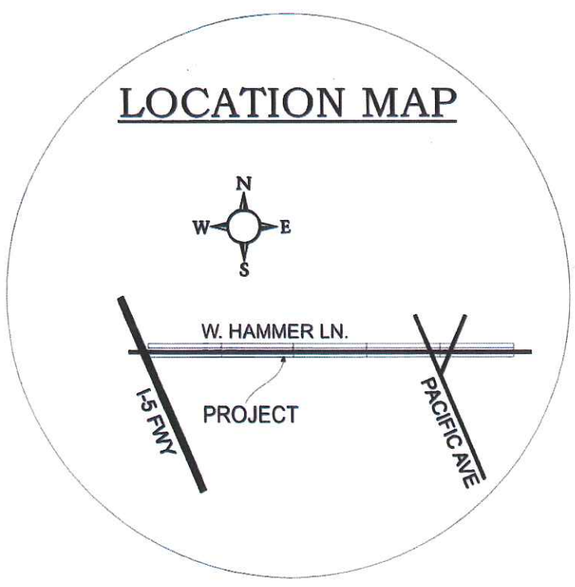
San Joaquin County Encroachment Permit
(Job No. PWP110005)

Traffic Sign Specialties Inc.
9149 Union Park Way.
Elk Grove, CA. 95624
PH: 916-714-5707
FAX: 916-714-5733
slavikr@frontiernet.net

TRAFFIC CONTROL PLAN

HAMMER LN. @ MULTIPLE LOCATIONS.
CITY OF STOCKTON, CA.

LOCATION MAP



CONTRACTOR

COMPANY: Pacific Excavation, Inc.

CONTACT: Armando M.

PH: 916-686-2800

NOTE# 1
THIS PLAN SUPPLEMENTED WITH MUTCD

NOTE# 2
MUTCD IS MIN STANDARD (2012 CA MUTCD)
THE LOCATION OF THE SIGNS AS SHOWN ON THE PLAN ARE GUIDELINES AND ACTUAL LOCATION WILL DEPEND UPON ALIGNMENT, GRADE , LOCATION OF THE STREET INTERSECTIONS AND 85% TILE SPEED OF POSTED SPEED LIMIT

NOTE# 3
CONTINUAL MONITORING AND MAINTENANCE OF THE TRAFFIC CONTROL ZONE, EMERGENCY ACCESS, ACCOMMODATION FOR PEDESTRIANS, BICYCLE TRAFFIC AND THE DISABLED IS REQUIRED.

NOTE# 4
NOTIFY THE LOCAL LAW ENFORCEMENT, FIRE, AND AMBULANCE COMPANIES WITHIN 24 HOURS BEFORE CONSTRUCTION BEGINS. AND KEEP OPEN ACCESS FOR EMERGENCY VEHICLES AT ALL THE TIME.

NOTE# 5
PROPER TRAINING OF FLAGGERS, PROPER DEVICES AND DEVICE USAGE AND APPROPRIATE NOTIFICATIONS REQUIRED.

NOTE# 6
NOTHING ALLOWED IN THE BUFFER ZONE AND TRANSITION AREA AT ANY TIME.

NOTE# 7
SIGNS ARE ONLY SHOWN TO THE PUBLIC WHEN IN USE. WHEN SIGNS ARE NOT IN USE REMOVE OR COVER.

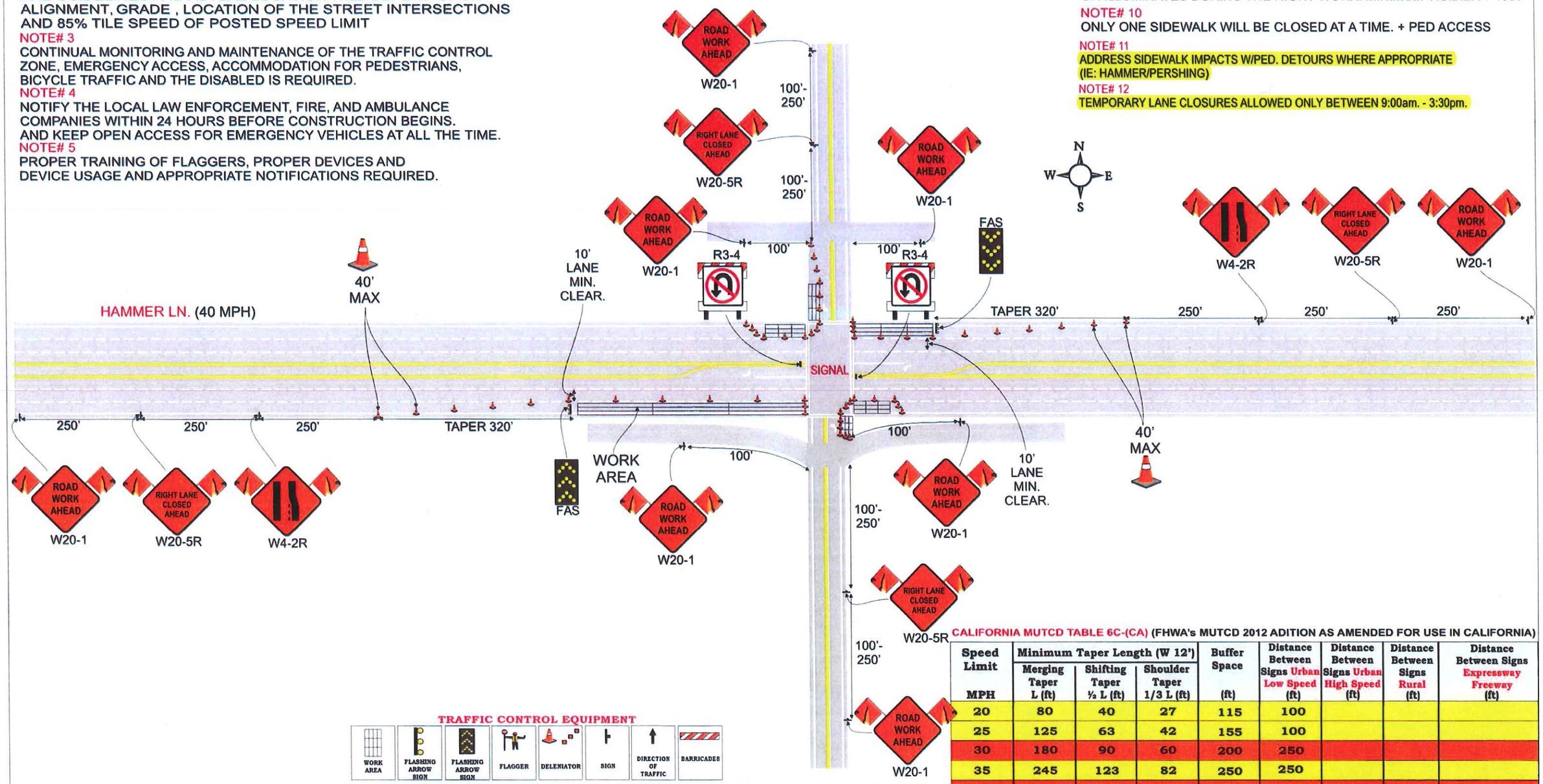
NOTE# 8
REMOVE ALL CONFLICTING MARKINGS FOR LONG TERM OPERATIONS (3 DAY OR LONGER)

NOTE# 9
SIGNS AND CHANNELIZING MUST BE RETRO REFLECTIVE OR ILLUMINATES DURING THE NIGHT WORK. MINIMUM VISIBILITY 1000'

NOTE# 10
ONLY ONE SIDEWALK WILL BE CLOSED AT A TIME. + PED ACCESS

NOTE# 11
ADDRESS SIDEWALK IMPACTS W/PED. DETOURS WHERE APPROPRIATE (IE: HAMMER/PERSHING)

NOTE# 12
TEMPORARY LANE CLOSURES ALLOWED ONLY BETWEEN 9:00am. - 3:30pm.



CALIFORNIA MUTCD TABLE 6C-(CA) (FHWA's MUTCD 2012 ADITION AS AMENDED FOR USE IN CALIFORNIA)

Speed Limit MPH	Minimum Taper Length (W 12') Merging Taper L (ft)	Shifting Taper ½ L (ft)	Shoulder Taper 1/3 L (ft)	Buffer Space (ft)	Distance Between Signs Urban Low Speed (ft)	Distance Between Signs Urban High Speed (ft)	Distance Between Signs Rural (ft)	Distance Between Signs Expressway Freeway (ft)
20	80	40	27	115	100			
25	125	63	42	155	100			
30	180	90	60	200	250			
35	245	123	82	250	250			
40	320	160	107	305	250			
45	540	270	180	360		350	500	
50	600	300	200	425		350	500	A B C
55	660	330	220	495		350	500	1000/1500/2640
60	720	360	240	570				1000/1500/2640
65	780	390	260	645				1000/1500/2640

Pacific Excavation

TSS Inc.
Slavik Redko
TRAFFIC CONTROL SPECIALIST
Ph: 916-714-5707
Fax: 916-714-5733
DATE 1/18/13

Monday - Friday
WORK TIME: 9:00am TO 3:30pm
FOREMAN:
24 HOUR:
DWG: TYPICAL RIGHT LANE CLOSURE
DRAWING NOT TO SCALE

TRAFFIC CONTROL PLAN # 1

Agency: City of Stockton, CA.
Contractor: Pacific Excavation
Ordered By: Armando M.
Location: Hammer Ln. @ Multiple Locations. City of Stockton, CA.
Telephone: 916-686-2800

NOTE# 1
THIS PLAN SUPPLEMENTED WITH MUTCD

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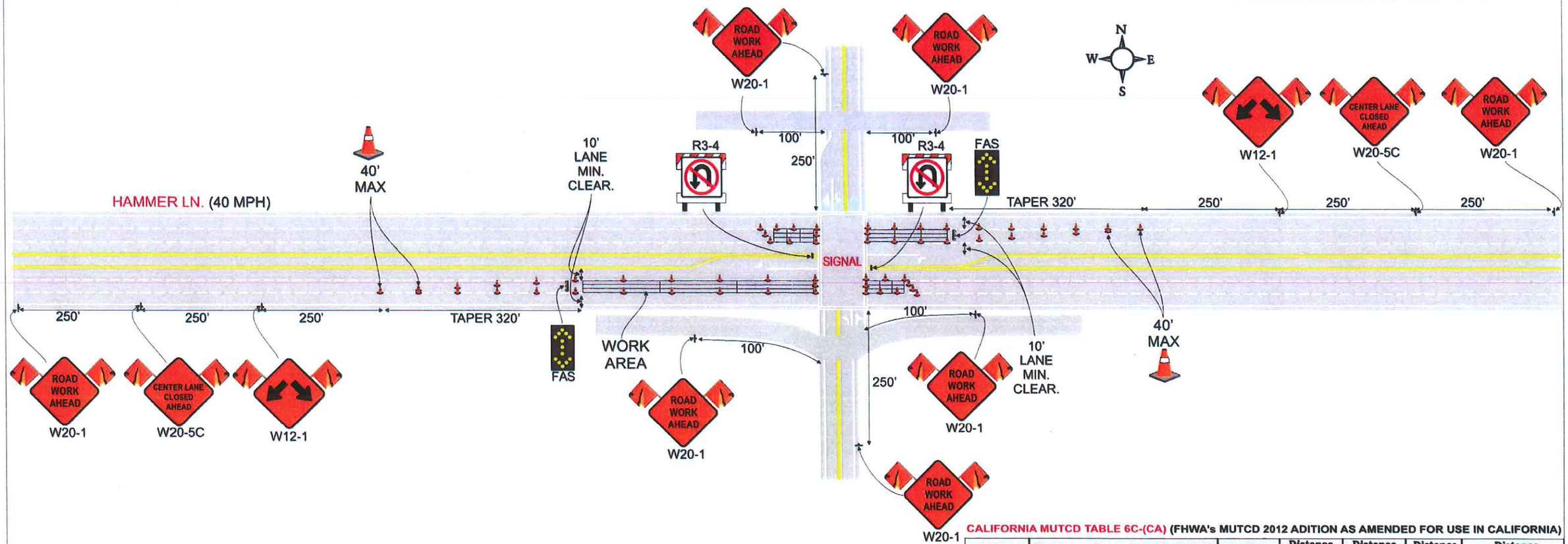

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50	600	300	200	425		350	500	A B C
55	660	330	220	495		350	500	1000/1500/2640
60	720	360	240	570				1000/1500/2640
65	780	390	260	645				1000/1500/2640

TRAFFIC CONTROL EQUIPMENT

Pacific Excavation

TSS Inc.
Slavik Redko
TRAFFIC CONTROL SPECIALIST
Ph: 916-714-5707
Fax: 916-714-5733
DATE 1/18/13

Monday - Friday
WORK TIME: 9:00am TO 3:30pm
FOREMAN:
24 HOUR:
DWG: TYPICAL CENTER LANE CLOSURE
DRAWING NOT TO SCALE

TRAFFIC CONTROL PLAN # 2

Agency: City of Stockton, CA.
Contractor: Pacific Excavation
Ordered By: Armando M.
Location: Hammer Ln. @ Multiple Locations. City of Stockton, CA.
Telephone: 916-686-2800

NOTE# 1
THIS PLAN SUPPLEMENTED WITH MUTCD

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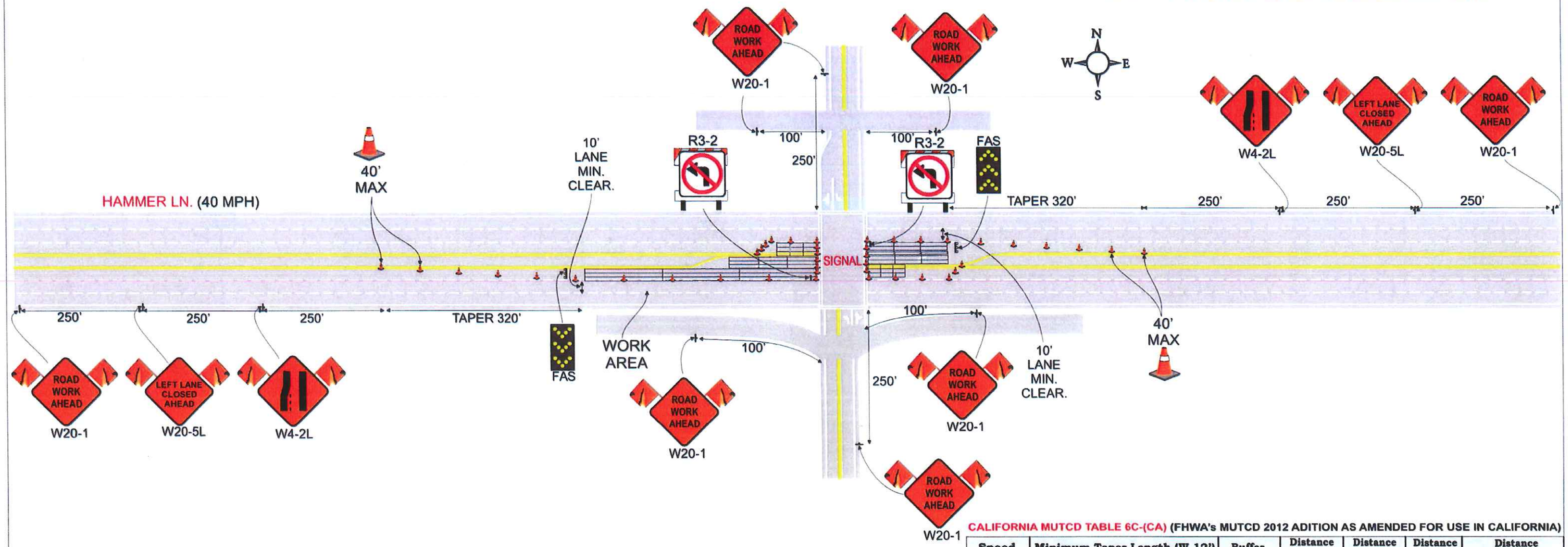

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60	720	360	240	570				1000/1500/2640
65	780	390	260	645				1000/1500/2640

TRAFFIC CONTROL EQUIPMENT

WORK AREA | FLASHING ARROW SIGN | FLASHING ARROW SIGN | FLAGGER | DELENIATOR | SIGN | DIRECTION OF TRAFFIC | BARRICADES

Pacific Excavation

TSS Inc.
Slavik Redko
TRAFFIC CONTROL SPECIALIST
Ph: 916-714-5707
Fax: 916-714-5733
DATE 1/18/13

Monday - Friday
WORK TIME: 9:00am TO 3:30pm
FOREMAN:
24 HOUR:
DWG: TYPICAL LEFT LANE CLOSURE
DRAWING NOT TO SCALE

TRAFFIC CONTROL PLAN # 3

Agency: City of Stockton, CA.
Contractor: Pacific Excavation
Ordered By: Armando M.
Location: Hammer Ln. @ Multiple Locations. City of Stockton, CA.
Telephone: 916-686-2800

NOTE# 1
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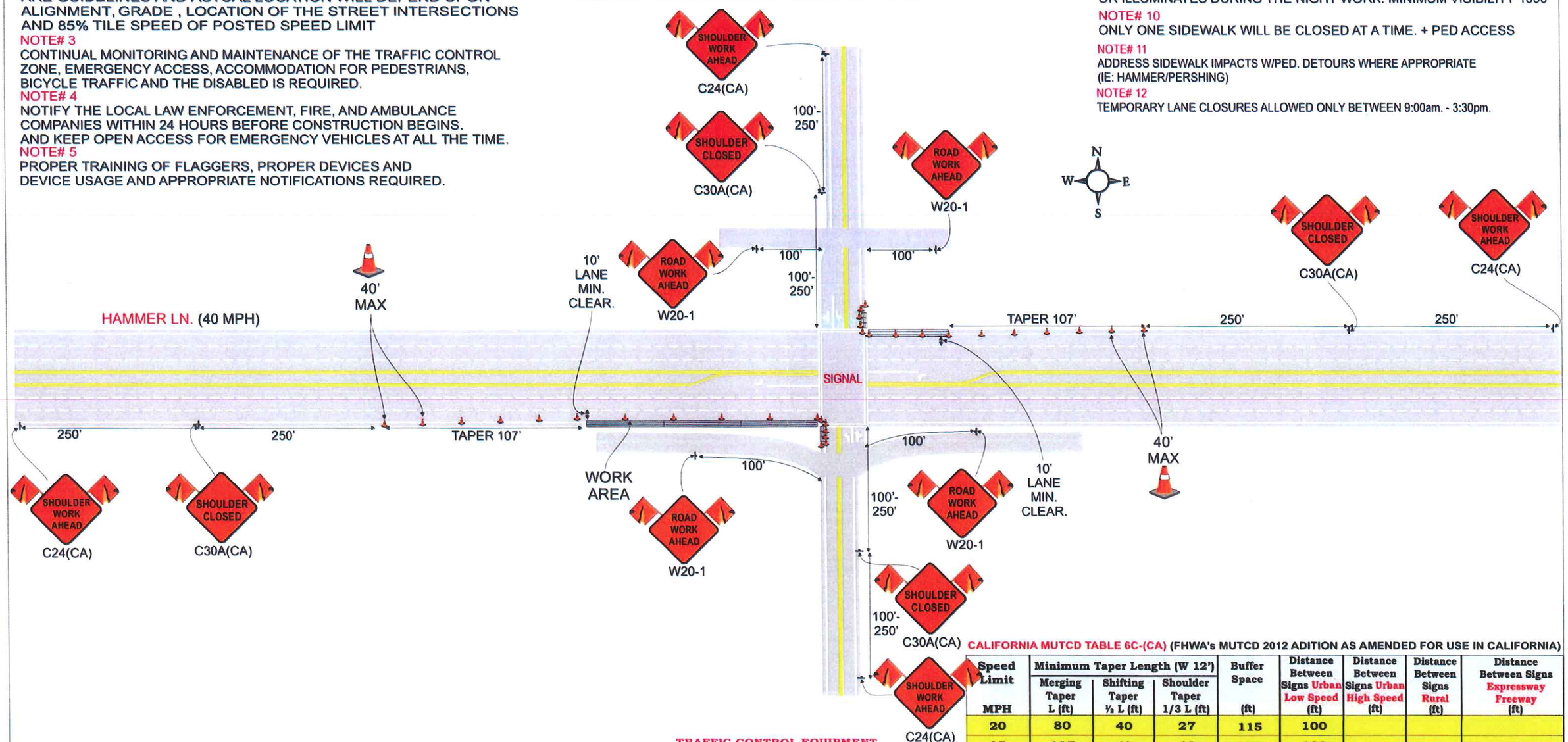

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TRAFFIC CONTROL EQUIPMENT

Pacific Excavation

TSS Inc.
Slavik Redko
TRAFFIC CONTROL SPECIALIST
Ph: 916-714-5707
Fax: 916-714-5733

DATE 1/18/13

Monday - Friday
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FOREMAN:
24 HOUR:
DWG: TYPICAL SHOULDER CLOSURE
DRAWING NOT TO SCALE

TRAFFIC CONTROL PLAN # 4

Agency: City of Stockton, CA.
Contractor: Pacific Excavation
Ordered By: Armando M.
Location: Hammer Ln. @ Multiple Locations. City of Stockton, CA.
Telephone: 916-686-2800

NOTE# 1
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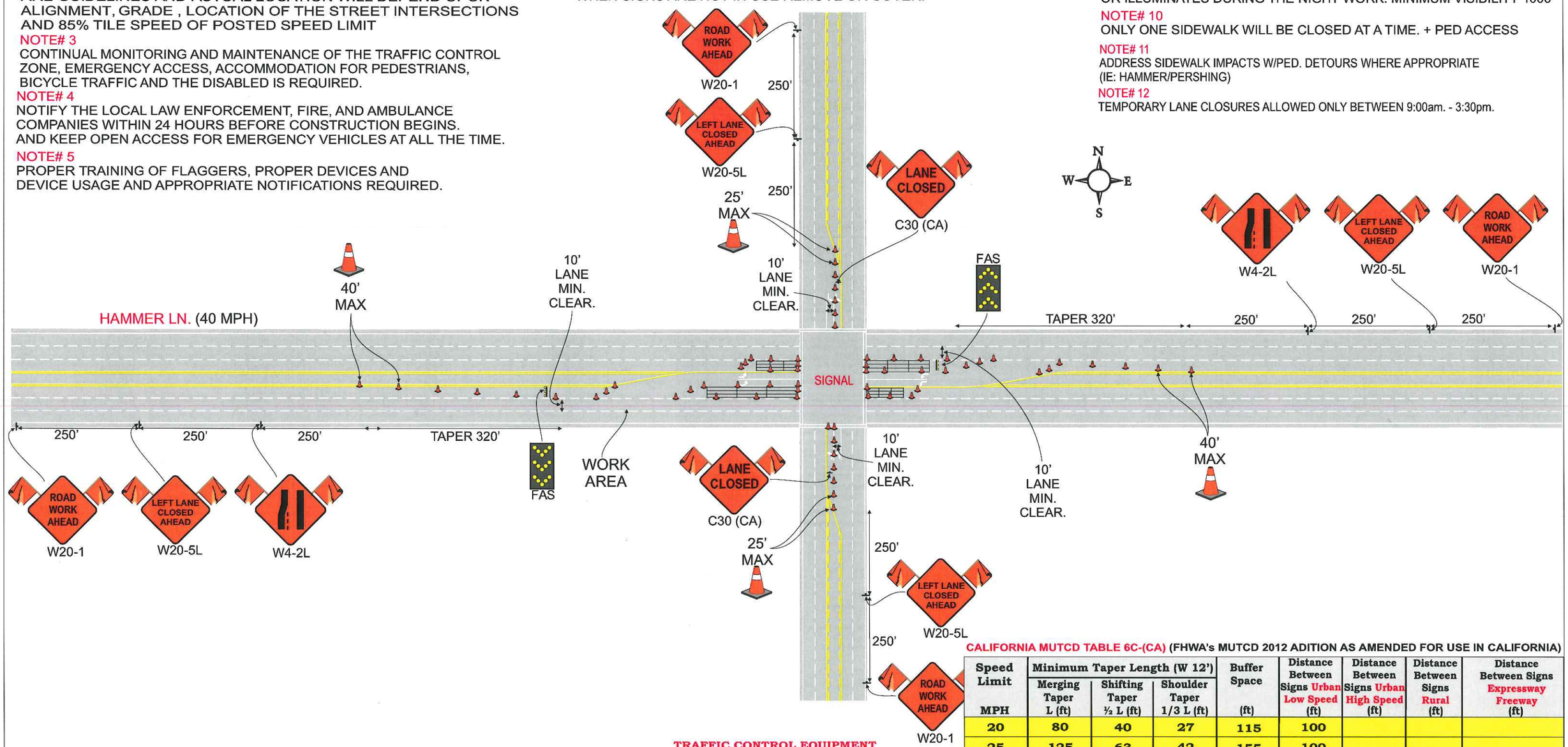

TRAFFIC CONTROL EQUIPMENT

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Pacific Excavation

TSS Inc.
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Ph: 916-714-5707
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DATE: 1/18/13

Monday - Friday
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24 HOUR:
DWG: TYPICAL LEFT LANE CLOSURE
DRAWING NOT TO SCALE

TRAFFIC CONTROL PLAN # 5

Agency: City of Stockton, CA.
Contractor: Pacific Excavation
Ordered By: Armando M.
Location: Hammer Ln. @ Multiple Locations. City of Stockton, CA.
Telephone: 916-686-2800

BUS RAPID TRANSIT PROJECT PHASE III
ON HAMMER LANE
FEDERAL AID PROJECT NO. CML-5008 (106)
CITY OF STOCKTON PROJECT NO. 11-12

PREPARED FOR: CITY OF STOCKTON

GENERAL NOTES

1. THESE PLANS ARE HEREBY MADE PART OF THE CONTRACT SPECIFICATIONS FOR THIS PROJECT. THESE PLANS SHALL BE ACCOMPANIED BY SEPARATE SET OF SPECIAL PROVISIONS. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK CALLED FOR ON THESE PLANS UNTIL THE CITY ENGINEER'S SIGNATURE OF APPROVAL IS AFFIXED HEREON AND ALL APPLICABLE PERMITS HAVE BEEN OBTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED TO COMPLETE THE PROJECT. AN APPROVED SET OF PLANS SHALL BE ON THE JOB SITE DURING ANY CONSTRUCTION.
2. ALL WORK AND MATERIAL EMBRACED IN THIS PROJECT SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF THE CITY OF STOCKTON, DEPT. OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND PLANS. THE LATEST EDITIONS OF CALTRANS STANDARD PLANS AND SPECIFICATIONS, AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF THIS PROJECT.
3. THE CONTRACTOR 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 ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
4. THE CONTRACTOR SHALL MAKE AN ON-SITE INSPECTION PRIOR TO PROVIDING ANY BIDS TO DETERMINE ANY AND ALL ITEMS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ALL CONFLICTS, ERRORS, OMISSIONS, ETC. TO THE ENGINEER IMMEDIATELY UPON DISCOVERY. IF SO DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL STOP WORK UNTIL REMEDIAL ACTION CAN BE TAKEN. ANY COSTS RESULTING FROM THE CONTRACTOR'S FAILURE TO REPORT OR FAILURE TO STOP WORK, AS DIRECTED, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL CONTACT THE CITY OF STOCKTON PUBLIC WORKS DEPARTMENT (209-937-8381) FOR A PRE-CONSTRUCTION CONFERENCE AFTER THE AWARD OF CONTRACT AND AT LEAST 72 HOURS IN ADVANCE OF WORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY PG&E AND OTHER UTILITY COMPANIES PRIOR TO START OF WORK. THE CONTRACTOR SHALL CALL USA (800-227-2600) 48 HOURS PRIOR TO ANY EXCAVATION.
8. THE CONTRACTOR SHALL, BY HAND, POTHOLE EXISTING UTILITIES TO VERIFY LOCATION PRIOR TO CONSTRUCTION.
9. EXISTING UTILITIES INCLUDING MANHOLES, STORM DRAIN CATCH BASINS, VALVES, BOXES, ETC., SHALL BE PROTECTED IN PLACE AND REMAIN OPERATIONAL AT ALL TIMES UNLESS NOTED OTHERWISE.
10. THE LOCATIONS OF ALL UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES; HOWEVER, THE CONSULTANT ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING FACILITIES SHOWN HEREON OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES OR OBJECTS WHICH MAY BE DISCOVERED BUT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES AND IMMEDIATELY NOTIFY THE ENGINEER IF ANY SUCH FACILITIES INTERFERE WITH THE CONSTRUCTION OF IMPROVEMENTS. CALL U.S.A. 1-800-227-2600. THE CONTRACTOR SHALL STOP WORK AROUND THE AREA OF CONFLICT UNTIL HE IS DIRECTED BY THE ENGINEER TO CONTINUE.
11. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) ORDER NO. 2009-0009-DWQ. THE CONTRACTOR SHALL IMPLEMENT AND MONITOR A STORM WATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE SWCRB REGULATIONS. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS IN THE STORMWATER BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK WHICH IS PREPARED BY CASQA AND ADOPTED BY THE STATE AND THE CITY. IT IS PROHIBITED TO DISCHARGE ANYTHING EXCEPT CLEAN WATER INTO THE STORM DRAIN SYSTEM.
12. ATTENTION IS CALLED TO: SECTION 1540(A) (1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 25, 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, ELECTRIC LINES, ETC.,, WILL BE ENCOUNTERED AND, IF SO, WHETHER SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE 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 EXISTING 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."
13. THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, SLOPING OR PROVISIONS TO PROTECT WORKERS FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF FIVE FEET OR MORE. SAID PROTECTION TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL, STATE, AND FEDERAL REGULATIONS (CAL-OSHA, OSHA).
14. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROLS AND SHALL SUBMIT TO THE CITY TRAFFIC ENGINEERING DIVISION A TRAFFIC CONTROL PLAN FOR EACH PHASE OF WORK PRIOR TO THE START OF CONSTRUCTION.
15. PRIOR TO BEGINNING ANY WORK ON EXISTING STREETS, ADVANCE WARNING SIGNS SHALL BE INSTALLED. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH CALTRANS' 2012 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), AND ANY ADDITIONAL CITY REQUIREMENTS. FAILURE TO COMPLY MAY RESULT IN IMMEDIATE STOPPAGE OF WORK UNTIL THE PROPER TRAFFIC CONTROL IS IN ORDER.
16. TRAFFIC CONTROL MAINTENANCE AND OPERATION SHALL COMPLY WITH THE FOLLOWING STATE STANDARD SPECIFICATION SECTIONS:

    SECTION 7-1.04 "PUBLIC SAFETY"
    SECTION 7-1.03 "PUBLIC CONVENIENCE"
    SECTION 12 "TEMPORARY TRAFFIC CONTROL"
17. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY.
18. ALL EXISTING SIGNS AND POSTS SHALL REMAIN UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL BACKFILL WITH CUTBACK EACH NIGHT ANY AREAS NOT COMPLETED TO ITS FINISHED STATE. ALL EXCAVATED AREAS SHALL BE PROTECTED FROM PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES.
20. ALL NEW FLATWORK SHALL BE DRILLED AND DOWELED AND/OR KEYED INTO EXISTING FLATWORK IN ACCORDANCE WITH CITY OF STOCKTON STANDARD PLANS AND SPECIFICATIONS.
21. ALL EXISTING PUBLIC AND PRIVATE IMPROVEMENTS, INCLUDING ALL CURBS, GUTTERS, SIDEWALKS, IRRIGATION, LANDSCAPING, AND FENCES, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE ENGINEER, AT CONTRACTOR'S SOLE EXPENSE.
22. THE CONTRACTOR SHALL REPLACE ANY PAVEMENT DELINEATION OR TRAFFIC MARKINGS REMOVED OR DAMAGED IN THE COURSE OF THIS WORK. PRIOR TO ANY REMOVAL, THE CONTRACTOR SHALL DOCUMENT THE TYPE AND LOCATION OF THE PAVEMENT DELINEATION/ MARKINGS.
23. THE CONTRACTOR SHALL RETURN ALL EXISTING & SALVAGEABLE EQUIPMENT AND SIGNS TO THE CITY OF STOCKTON CORPORATION YARD AT 1485 SOUTH LINCOLN STREET, STOCKTON, CALIFORNIA, 95206. CONTRACTOR SHALL NOTIFY THE CORP. YARD AT (209) 937-7406 A MINIMUM OF 72 HOURS IN ADVANCE OF DELIVERY.
24. SEE SHEET OV-1 FOR TRAFFIC SIGNAL AND ELECTRICAL NOTES.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION TESTING AND SHALL PROVIDE TO THE CITY ALL COMPACTION TEST RESULTS SHOWING THAT THE CITY'S MINIMUM COMPACTION STANDARDS HAVE BEEN ACHIEVED.

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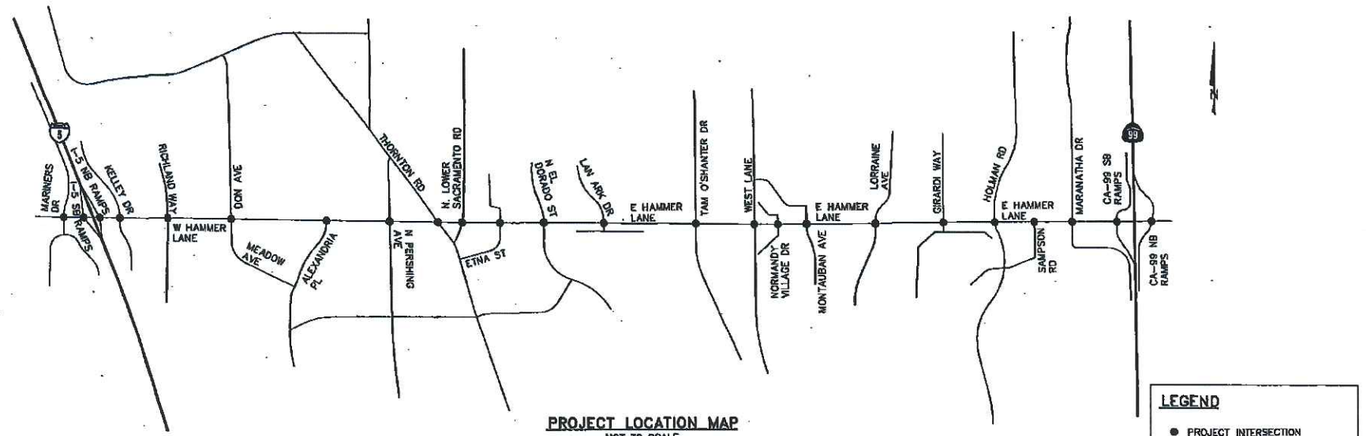
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG



PROJECT LOCATION MAP
NOT TO SCALE

LEGEND

- PROJECT INTERSECTION

LEGEND

EXISTING	PROPOSED	
		CONDUIT
		FACE OF CURB
		LIP OF GUTTER
		BACK OF CURB
		BACK OF SIDEWALK
		RIGHT-OF-WAY
		FENCE
SS		SANITARY SEWER LINE AND MANHOLE
SD		STORM SEWER LINE AND MANHOLE
W		WATER LINE
N2		NITROGEN GAS LINE
E		ELECTRICAL LINE
G		GAS LINE
T		TELEPHONE LINE
FO		FIBER OPTIC LINE
		TRAFFIC SIGNAL CONTROLLER CABINET
		SERVICE CABINET
		TRAFFIC SIGNAL HEAD
		PULL BOX
		PAN/TILT ZOOM CAMERA
		TRAFFIC SIGNAL STANDARD
		EVP/TSP OPTICAL DETECTOR UNIT
		UTILITY POLE
		FIRE HYDRANT
		TELEPHONE MANHOLE
		WATER VALVE
		MAST ARM MOUNTED SIGN

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3. DT-1 DETAILS
4. DT-2 DETAILS
5. DT-3 DETAILS
6. DT-4 DETAILS
7. SY-1 SYSTEM DIAGRAM
8. SY-2 SYSTEM DIAGRAM (TMC)
9. TS-1 HAMMER LANE AT MARINERS DRIVE TRAFFIC SIGNAL MODIFICATION
10. TS-2 HAMMER LANE AT I-5 SB RAMPS TRAFFIC SIGNAL MODIFICATION
11. TS-3 HAMMER LANE AT I-5 NB RAMPS TRAFFIC SIGNAL MODIFICATION
12. TS-4 HAMMER LANE AT KELLEY DRIVE TRAFFIC SIGNAL MODIFICATION
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17. TS-9 HAMMER LANE AT THORNTON ROAD TRAFFIC SIGNAL MODIFICATION
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19. TS-11 HAMMER LANE AT ETNA STREET TRAFFIC SIGNAL MODIFICATION
20. TS-12 HAMMER LANE AT N. EL DORADO STREET TRAFFIC SIGNAL MODIFICATION
21. TS-13 HAMMER LANE AT LAN ARK DRIVE TRAFFIC SIGNAL MODIFICATION
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23. TS-15 HAMMER LANE AT WEST LANE TRAFFIC SIGNAL MODIFICATION
24. TS-16 HAMMER LANE AT NORMANDY VILLAGE DRIVE TRAFFIC SIGNAL MODIFICATION
25. TS-17 HAMMER LANE AT MONTAUBAN AVENUE TRAFFIC SIGNAL MODIFICATION
26. TS-18 HAMMER LANE AT LORRAINE AVENUE TRAFFIC SIGNAL MODIFICATION
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30. TS-22 HAMMER LANE AT MARANATHA DRIVE TRAFFIC SIGNAL MODIFICATION
31. TS-23 HAMMER LANE AT CA-99 SB RAMPS TRAFFIC SIGNAL MODIFICATION
32. TS-24 HAMMER LANE AT CA-99 NB RAMPS TRAFFIC SIGNAL MODIFICATION
33. EQ-1 SUMMARY EQUIPMENT LIST

ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT	F.O.	FIBER OPTIC
BRT	BUS RAPID TRANSIT	FUT.	FUTURE
CCTV	CLOSED CIRCUIT TELEVISION	GPS	GLOBAL POSTIONING SYSTEM
DLC	DETECTOR LEAD-IN CABLE	MT	EMPTY
EVA	PRE-EMPTION CHANNEL A	PTZ	PAN-TILT-ZOOM
EVB	PRE-EMPTION CHANNEL B	SIC	SIGNAL INTERCONNECT CABLE
EVC	PRE-EMPTION CHANNEL C	TSP	TRANSIT SIGNAL PRIORITY
EVD	PRE-EMPTION CHANNEL D	TYP.	TYPICAL
EVP	EMERGENCY VEHICLE PRE-EMPTION		
EX.	EXISTING		

San Joaquin County Encroachment Permit
(Job No. PWP110005)

San Joaquin County Encroachment Permit
(Job No. PWP110005)

REVISIONS NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL: APPROVED BY	DATE

Kimley-Horn and Associates, Inc.
1330 Broadway, Suite 201, Oakland, California 94612
Tel. No. (510) 625-0712 Fax No. (510) 834-1928

DESIGNED UNDER THE SUPERVISION OF:
KEVIN G. AGUIGUI
R.C.E. No. 048732, EXP. 9/30/12
3/1/12
DATE

REGISTERED PROFESSIONAL ENGINEER No. 048732 9/30/12 CIVIL STATE OF CALIFORNIA

BRT PHASE III
ON HAMMER LANE

COVER SHEET & GENERAL NOTES

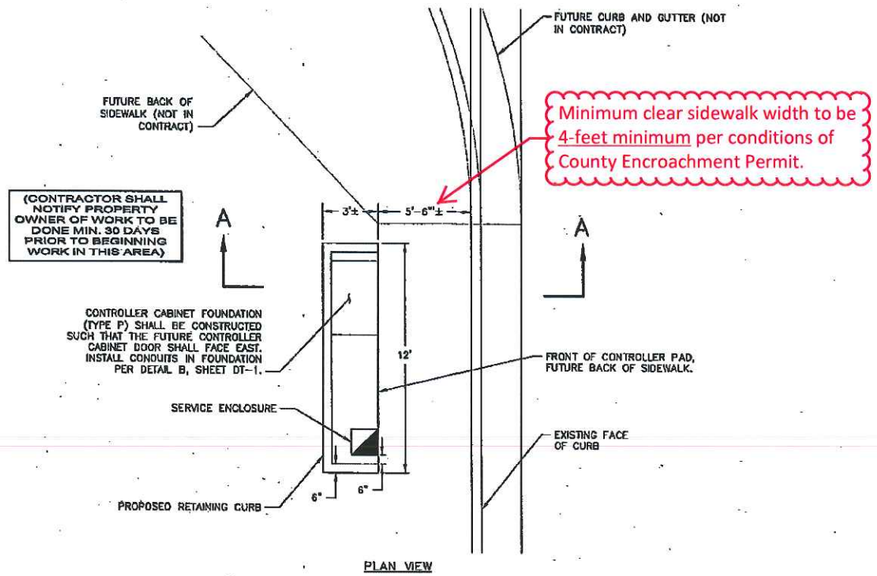
DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

DATE: FEBRUARY 2012
SCALE: NONE
DRAWN BY: JCS
DESIGNED BY: RWF MWW
CHECKED BY: KGA

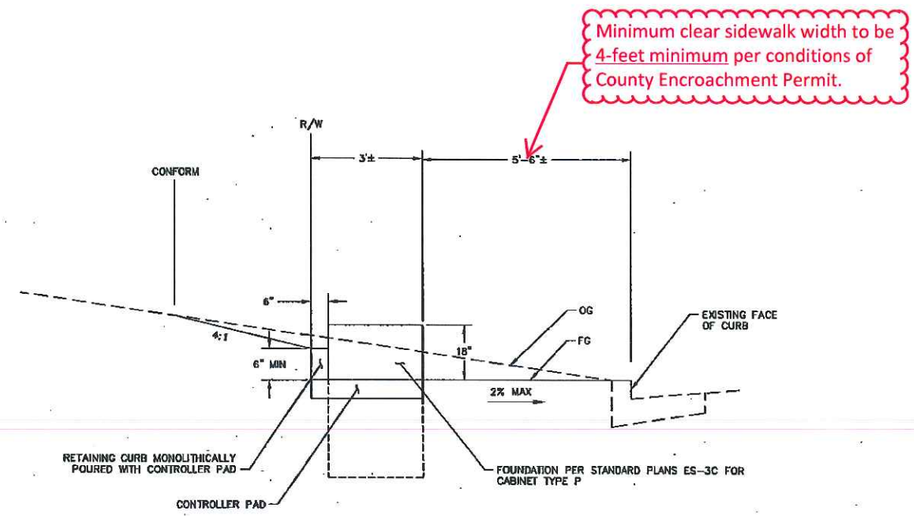
APPROVED BY: DATE: 3/2/12
CITY ENGINEER
STOCKTON, CALIFORNIA

PROJECT NO. 11-12
SHEET NO. CV
SHEET 1 OF 33

5156C



PLAN VIEW



SECTION A-A

DETAIL F: CONTROLLER PAD WITH RETAINING CURB
HAMMER LANE AT PERSHING AVENUE

NOT TO SCALE

CA: 1-800-227-2600
CALL BEFORE YOU DIG
USA
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

REVISIONS	NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL APPROVED BY	DATE

Kimley-Horn and Associates, Inc.

DESIGNED UNDER THE SUPERVISION OF:
REYNI G. AGUIGUI
R.C.E. No. 048732, EXP. 9/30/12
3/1/12
DATE

REGISTERED PROFESSIONAL ENGINEER No. 048732 REYNI G. AGUIGUI STATE OF CALIFORNIA

BRT PHASE III
ON HAMMER LANE

DETAILS

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

DATE: FEBRUARY 2012
SCALE: NONE
DRAWN BY: MWW
DESIGNED BY: RWF MWW
CHECKED BY: KGA

APPROVED BY: DATE: 3/6/12
CITY ENGINEER
STOCKTON, CALIFORNIA

PROJECT NO. 11-12
SHEET NO. DT-4
SHEET 8 OF 33

5156.56

CONSTRUCTION NOTES (THIS SHEET ONLY)

1. FURNISH AND INSTALL NEW CABLE(S) IN EXISTING CONDUIT. CABLE INDICATED ON PLANS. SEE TRAFFIC SIGNAL AND ELECTRICAL NOTE NO. 6, ON SHEET OV-1, FOR CONDUIT LUBRICATION DETAILS.
3. FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON SIGNAL HEAD. CONNECT TO EVP CABLE. ORIENT AND ASSIGN TO PHASE AS INDICATED ON PLAN. SEE DETAIL C, ON SHEET DT-2 FOR MOUNTING DETAILS.
4. FURNISH AND INSTALL OPTICOM MODEL 764 MULTIMODE PHASE SELECTOR IN TRAFFIC SIGNAL CONTROLLER CABINET.
5. FURNISH AND INSTALL TWO-SLOT DETECTOR RACK FOR NEW OPTICOM MODEL 764 MULTIMODE PHASE SELECTOR IN CONTROLLER CABINET.
8. REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER. FURNISH AND INSTALL NEW TYPE 2070LN CONTROLLER WITH D4 SOFTWARE IN CONTROLLER CABINET.
13. FURNISH AND INSTALL NEW FIBER OPTIC ETHERNET SWITCH IN CONTROLLER CABINET AND IN THE CITY TMC. SEE SPECIFICATIONS AND SHEET SY-2 FOR DETAILS.
22. REMOVE AND SALVAGE VIDEO DETECTION CAMERA. USE EXISTING CAMERA CABLE AND/OR CONDUCTORS TO PULL NEW EVP CABLES IN EXISTING CONDUIT AS SHOWN ON PLAN.
23. REMOVE AND SALVAGE EXISTING PULL BOX. FURNISH AND INSTALL NEW PULL BOX, TYPE AS NOTED.
24. FURNISH AND INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE AND FOUNDATION PER CALTRANS STANDARD PLAN ES-2D. FOR WIRING DIAGRAM SEE DETAIL D, ON SHEET DT-3. INSTALL POLE RISE CONDUIT AND CONDUCTORS FROM SERVICE PEDESTAL TO SERVICE POINT PER PG&E REQUIREMENTS. REMOVE AND SALVAGE EXISTING SERVICE CONNECT AFTER NEW SERVICE PEDESTAL IS OPERATIONAL.
26. FURNISH AND INSTALL TYPE H RISER ON UTILITY POLE. FURNISH AND INSTALL NO. 5 UTILITY PULL BOX AT BASE OF POLE. PG&E TO MAKE FINAL CONNECTIONS IN PULL BOX.
27. FURNISH AND INSTALL NO. 6 PULL BOX WITH EXTENSION. SEE DETAIL A, ON SHEET DT-1, FOR INSTALLATION DETAILS.
28. FURNISH AND INSTALL NO. 6 PULL BOX FOR FUTURE FIBER OPTIC CABLE INSTALLATION. SEE DETAIL A, ON SHEET DT-1, FOR INSTALLATION DETAILS.
29. FURNISH AND INSTALL NO. 5 PULL BOX.
30. INSTALL NEW TYPE P CONTROLLER CABINET FOUNDATION. SEE CALTRANS STANDARD PLAN ES-3C AND DETAIL B, ON SHEET DT-1, FOR FOUNDATION DETAILS. FRONT OF FOUNDATION SHALL FACE PERSHING AVENUE. INSTALL GRS PIPE CAPS ON ALL CONDUITS FOR FUTURE CABINET INSTALLATION. SEE DETAIL F, ON SHEET DT-4, FOR CONTROLLER PAD AND RETAINING CURB DETAILS. CONTRACTOR TO COORDINATE WITH CITY FOR EXACT FOUNDATION AND PAD LOCATION.
31. FURNISH AND INSTALL 2½" GALVANIZED RIGID STEEL CONDUIT INTO NEW FOUNDATION FOR FUTURE FIBER OPTIC CABLE INSTALLATION. SEE DETAIL E, ON SHEET DT-3, FOR CONDUIT INSTALLATION LOCATION.
32. CONTRACTOR SHALL COORDINATE INSTALLATION WITH PG&E AND INSTALL CONDUIT PER PG&E REQUIREMENTS. PG&E WILL FURNISH AND INSTALL CONDUCTORS AND MAKE FINAL CONNECTIONS.
33. STATION AND ELEVATION OF FUTURE BACK OF SIDEWALK (NOT IN CONTRACT). CONTRACTOR TO ESTABLISH CENTERLINE STATIONING BASED ON HAMMER LANE WIDENING PHASE IIIB PLANS. CONTRACTOR TO COORDINATE WITH CITY FOR PLANS AND ASSOCIATED MONUMENT LOCATIONS.

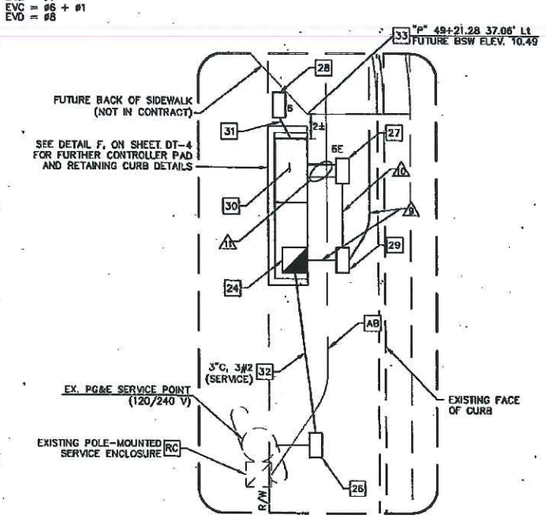
CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS — HAMMER LANE AT N. PERSHING AVE										
	1	2	3	4	5	6	7	8	9	10	11
NO. 14 CONDUCTORS											
SIGNALS	6	9	12	15	15	24	9	6			
PED		2	2	4	4	6	2				
PPB		1	1	2	2	3	1				
PEU						3					
SPARE	3	3	3	3	3	6	3	3			
TOTAL NO. 14	9	15	18	24	24	42	15	9			
NO. 10 CONDUCTORS											
LUMINAIRE		2	2	2	2		2	2	2_N		
TOTAL NO. 10		2	2	2	2		2	2	2_N		
NO. 8 CONDUCTORS											
CONTROLLER SERVICE						2_N			2_N		
TOTAL NO. 8						2_N			2_N		
PTZ COMMUNICATION CABLE				1	1	1					
EVP CABLES**											
EVA						1_N	1_N	1_N			
EVB		1_N	1_N	1_N	1_N	1_N					
EVC				1_N	1_N	1_N					
EVD						1_N					
TOTAL EVP CABLES		1_N	1_N	2_N	2_N	4_N	1_N	1_N			
CAMERA WIRING		1	1	1	1	3	1	1			
PERCENT FILL	6	14	16	18	18	29	14	10	6	0	0
CONDUIT SIZE	2"	2"	2"	2.5"	2.5"	2.5"	2"	2"	2"$_N$	2"$_N$	2"$_N$

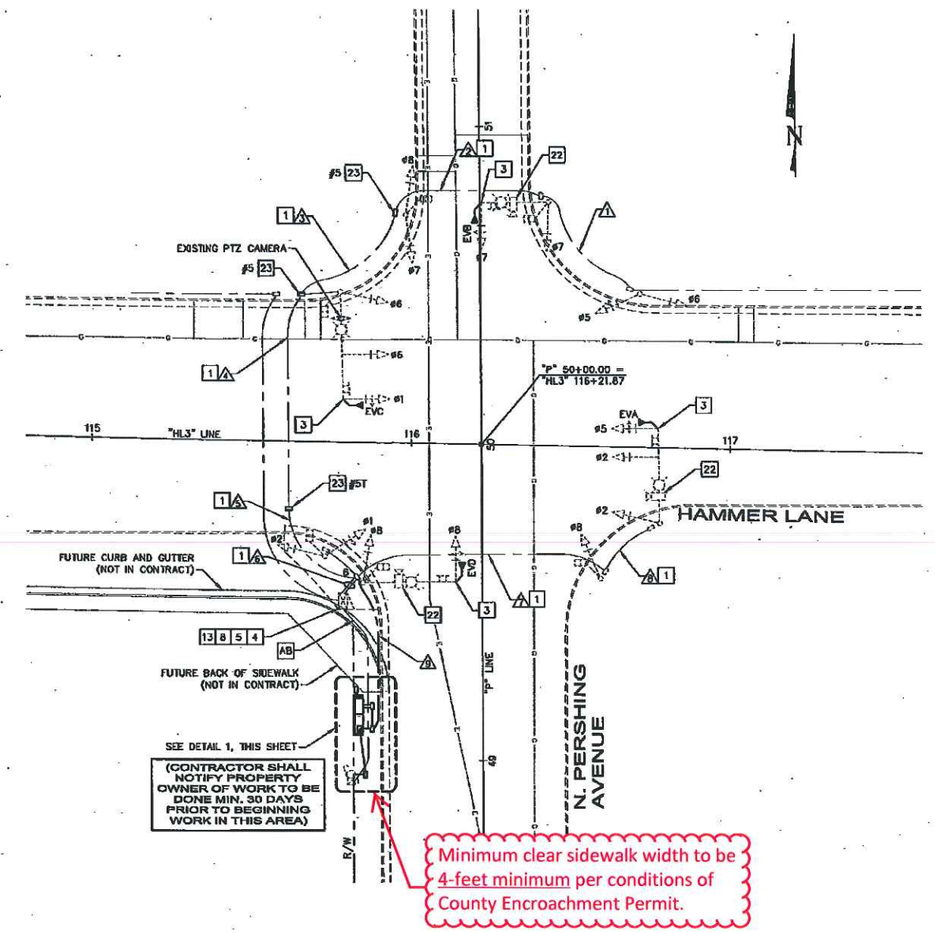
EXISTING CONDUITS & CONDUCTORS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED ON PLAN
N – DENOTES NEW CONDUCTOR OR CONDUIT
** OPTICOM GTT MODEL 13B CABLE

EVP ASSIGNMENTS

EVA = #2 + #5
EVB = #7
EVC = #6 + #1
EVD = #8



DETAIL 1
SCALE: 1" = 5'



GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

CA: 1-800-227-2600 CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT
CALL TWO WORKING DAYS BEFORE YOU DIG

REVISIONS NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL APPROVED BY	DATE

Kimley-Horn and Associates, Inc.
1300 Clay Street, Suite 325 Oakland, California 94612
Tel. No. (510) 625-9700 Fax No. (510) 625-9826 © 2012

DESIGNED UNDER THE SUPERVISION OF:
KEVIN G. AGUIGUI
R.C.E. No. 048732, EXP. 9/30/12
3/1/12
DATE

BRT PHASE III
ON HAMMER LANE

TRAFFIC SIGNAL MODIFICATION
HAMMER LANE AT N. PERSHING AVENUE

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

DATE: FEBRUARY 2012
SCALE: AS NOTED
DRAWN BY: JCS
DESIGNED BY: RWF MWW
CHECKED BY: KGA

APPROVED BY: CITY ENGINEER STOCKTON, CALIFORNIA
DATE: 3/2/12

PROJECT NO. 11-12
SHEET NO. TS-8
SHEET 16 OF 33

15156.15C

LOCATION	PROPOSED EQUIPMENT																
	EVP/TSP DETECTOR	PHASE SELECTOR	PHASE SELECTOR RACK	CABINET TYPE	CONTROLLER	FIBER ETHERNET SWITCH (FIELD UNIT)	CCTV CAMERA	FIBER VIDEO/DATA MODEM (ONE PORT)	FIBER VIDEO/DATA MODEM (4 PORT)	FIBER VIDEO/DATA MODEM (8 PORT)	FIBER OPTIC VIDEO MODEM/DATA MUX (4 PORT/CHANNEL)	IP VIDEO ENCODER (ONE PORT)	IP VIDEO ENCODER/ DECODER (4 PORT)	IP VIDEO ENCODER/ DECODER (16 PORT)	FIBER ETHERNET SWITCH (TMC UNIT)	VIDEO SPLITTERS	RACK MOUNT CHASSIS
HAMMER LANE / MARINERS DRIVE	4	1	1		2070LN	1	1		1								
HAMMER LANE / I-5 SB RAMPS	3	1					1	1									
HAMMER LANE / I-5 NB RAMPS	3	1															
HAMMER LANE / KELLEY DRIVE		1		P	2070LN	1				1							
HAMMER LANE / RICHLAND WAY		1			2070LN	1											
HAMMER LANE / DON AVE / MEADOW AVE		1		P	2070LN	1				1							
HAMMER LANE / ALEXANDRIA PLACE		1			2070LN	1				1							
HAMMER LANE / PERSHING AVENUE	4	1	1		2070LN	1											
HAMMER LANE / THORNTON ROAD		1			2070LN	1	1										
HAMMER LANE / LOWER SACRAMENTO ROAD		1			2070LN	1			1								
HAMMER LANE / ETNA STREET	4	1	1		2070LN	1	1	1									
HAMMER LANE / EL DORADO STREET		1			2070LN	1	1			1							
HAMMER LANE / LAN ARK DRIVE		1			2070LN	1											
HAMMER LANE / TAM O'SHANTER DRIVE	4	1			2070LN	1											
HAMMER LANE / WEST LANE	4	1			2070LN	1				1							
HAMMER LANE / NORMANDY VILLAGE DRIVE							1										
HAMMER LANE / MONTAUBAN AVENUE	4	1			2070LN	1	1										
HAMMER LANE / LORRAINE AVENUE	4	1			2070LN	1				1							
HAMMER LANE / GIRARDI WAY	4	1		P	2070LN	1		1									
HAMMER LANE / HOLMAN ROAD		1			2070LN	1				1							
HAMMER LANE / SAMPSON ROAD	4	1		P	2070LN	1		1									
HAMMER LANE / MARANATHA DRIVE		1			2070LN	1		1									
HAMMER LANE / CA-99 SB RAMPS	4	1					1	2			1						
HAMMER LANE / CA-99 NB RAMPS	4	1					1	1									
CITY OF STOCKTON TMC								7	2	7	1	6		2	3	1	4
SPARES (FIELD UNIT)		2	2			1		2	1	1	1	1		1			
SPARES (TMC UNIT)								2	1	1	1	1		1	1		1
TOTALS:	50	25	5	4	19	20	9	19	6	16	4	8		4	4	1	5

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CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

REVISIONS NO.	DESCRIPTION	DRAWN BY	CITY APPROVAL APPROVED BY	DATE

Kimley-Horn and Associates, Inc.

DESIGNED UNDER THE SUPERVISION OF:
KEVIN G. AGUIGUI
R.C.E. No. 048732, EXP. 6/30/12
3/15/12
DATE
No. 048732 Exp. 6/30/12 CIVIL STATE OF CALIFORNIA

BRT PHASE III
ON HAMMER LANE

SUMMARY EQUIPMENT LIST

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

DATE: FEBRUARY 2012
SCALE: NONE
DRAWN BY: JCS
DESIGNED BY: RWF MWW
CHECKED BY: KGA

APPROVED BY: DATE: 3/16/12
CITY ENGINEER
STOCKTON, CALIFORNIA

PROJECT NO. 11-12
SHEET NO. EQ-1
SHEET 33 OF 33

5156.32C