



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-1702531
Date Issued: 08/31/2017
Start Date: 09/01/2017
Exp. Date: 02/01/2018
Project No: PWP790069
Quad: SE

ENCROACHMENT PERMIT

To: KNIFE RIVER CONSTRUCTION
P.O. BOX 6099
STOCKTON, CA 95206

Encroachment Type:

Roadway Improvements			
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Location:

AIRPORT WAY AT ROTH RD. AND LOVELACE RD.

In compliance with your request of 08/17/2017, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

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

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

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

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

Special Comments:

Traffic Control Per MUTCD*****Centerpoint Project*****Work occurring at the intersections of LovelAce Rd. @Airport Way; Airport Way @ Roth Rd and Roth Rd. @ County Line.*****

FORMS: SS/WW

Est. Permit Fee: \$24,150.00

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
CENTERPOINT – ROTH RD.
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.
2. Access to all properties shall be maintained at all times except when work is occurring at the access point. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.
3. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.
4. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.
5. All destroyed or obliterated pavement markings must be replaced in kind by the permittee. Typical pavement markings include but not limited to lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.
6. 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)
7. 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.
8. 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.
9. 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.
10. 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.
11. The contractor shall not conduct construction operations in rain or heavy fog conditions.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 8/29/2017To: San Joaquin County
Department of Public WorksKnife River Construction
(Applicant Name)P.O. Box 6099
(Mailing Address)Stockton, CA 95206
(City, State, Zip Code)(209) 932-2100
(Area Code - Telephone Number)william.moreno@kniferiver.com
(Email Address)

OFFICE USE ONLY

JOB #	<u>790069</u>	REF #	
APN		CR #	
EXP. DATE	<u>2/1/18</u>		
VALID	<u>9/1/17</u>	TO	<u>2/1/18</u>
STREET	<u>ROTH RD., AIRPORT WAY, LOVELACE RD.</u>		
AREA	<u>MANTECA</u>	QUAD	<u>SE</u>
TYPE	<u>ROADWAY IMPROVEMENTS</u>		
FORMS	<u>SE/WW, SPECIAL CONDITIONS.</u>		
NOTES			

DRIVEWAYS:

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*

*

Sketch (Detailed plans may be submitted)

See Attached Plans

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

Permit is for
Traffic control and lane shifts for road reconstruction in
City of Manteca right-of-way only. City permit needed within City
S.J. County jurisdiction.

Work will commence on or after _____ for approximately _____ 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.

William Moreno
Signature of Applicant - Title

8/29/2017
Date

Activity ID	Description	Orig Dur	Early Start	Early Finish
PRECONSTRUCTION				
900	Contract Award	27	17MAY17	23JUN17
910	Contracts / Notice to Proceed	27	17MAY17	23JUN17
920	Plan Approval (BY OTHERS)	74	17MAY17	30AUG17
925	Plan Approval (BY OTHERS)	3	31AUG17	03SEP17
930	Signal Material Procurement	65	31AUG17	04DEC17
940	Frontier Pole Relocation (OTHERS)	110	17MAY17	20OCT17
950	Guy Pole Removal/Relocation (OTHERS)	80	17MAY17	08SEP17
PHASE 1 - WIDENING (WEST & SOUTH)				
1000	Staking	3	31AUG17	05SEP17
1010	Temp Strip / Shift Traffic	2	06SEP17	07SEP17
1020	Pavement Removal	2	08SEP17	09SEP17
1030	Roadway Excavation	3	11SEP17	13SEP17
1040	Storm Drain	15	14SEP17	30SEP17
1050	Sewer (South Side Laterals Only)	2	27SEP17	28SEP17
1060	Water	2	28SEP17	30SEP17
1070	Stringline - Sidewalk	3	02OCT17	04OCT17
1080	Fine Grade - Sidewalk	3	04OCT17	06OCT17
1090	Machine Pour - Sidewalk	2	06OCT17	07OCT17
1100	Stringline - Curb & Gutter	3	08OCT17	10OCT17
1110	Fine Grade - Curb & Gutter	2	10OCT17	12OCT17
1120	Machine Pour - Curb & Gutter	2	13OCT17	14OCT17
1130	Stringline - Median Curb	3	12OCT17	14OCT17
1140	Fine Grade - Median Curb	2	14OCT17	16OCT17
1150	Machine Pour - Median Curb	2	17OCT17	19OCT17
1160	Hand Pour Concrete	10	19OCT17	30OCT17
1170	Subgrade / Place AB	8	27OCT17	04NOV17
1180	Finish AB	5	08NOV17	10NOV17
1190	AC Paving (Bottom Lift)	3	11NOV17	14NOV17
1200	PCC Pavement (Roth Road)	30	02OCT17	10NOV17
PHASE 2 - NW CORNER ROTH/ARPORT				
2000	Excavate / Place AB	1	15NOV17	15NOV17
2010	Finish AB / AC Paving	1	16NOV17	16NOV17
PHASE 3 - EAST & NORTH RECONSTRUCTION				
2888	Temp Striping / Switch Traffic	2	17NOV17	20NOV17
3000	Pavement Removal	3	21NOV17	23NOV17
3010	Roadway Excavation	5	27NOV17	01DEC17
3020	Sewer (STA 74+29 to STA 92+00)	12	02DEC17	15DEC17
3030	Storm Drain (North Side Laterals)	3	18DEC17	19DEC17
3040	Water (Loveless)	3	20DEC17	22DEC17
3050	Sewer (STA 74+29 to STA 105+00)	9	23DEC17	04JAN18
3060	Stringline - Median Curb	3	05JAN18	08JAN18
3070	Fine Grade - Median Curb	2	08JAN18	10JAN18
3080	Machine Pour - Median Curb	2	11JAN18	12JAN18
3090	Hand Pour Median Curb	3	13JAN18	16JAN18
3100	Subgrade / Place AB	6	17JAN18	23JAN18
3110	Sewer Testing	5	22JAN18	26JAN18
3120	Finish AB	3	27JAN18	30JAN18
3130	AC Paving (Bottom Lift)	2	31JAN18	01FEB18
PHASE 4 - FINAL				
4000	AC Paving (Top Lift Entire Job)	2	02FEB18	03FEB18
4010	AC Driveways	3	05FEB18	07FEB18
4020	Misc Final	20	08FEB18	08MAR18
MISC OTHER				
5000	Backfill Medians	5	13JAN18	18JAN18
5010	Landscaping	40	19JAN18	19MAR18
5020	Roth Signal - Underground Crossings	5	02OCT17	06OCT17
5030	Roth Signal - Initial/Modify	10	05DEC17	19DEC17
5040	Loveland Signal - Underground Crossings	5	28DEC17	02JAN18
5050	Loveland Signal - Install	20	03JAN18	30JAN18

NOTE

1. Schedule does NOT account for any weather related delays.

2. Schedule does NOT include 90 day landscape maintenance period.

IMPROVEMENT PLANS FOR:
CENTERPOINT INTERMODAL CENTER
OFF-SITE IMPROVEMENTS
CITY OF MANTECA, SAN JOAQUIN COUNTY, CALIFORNIA

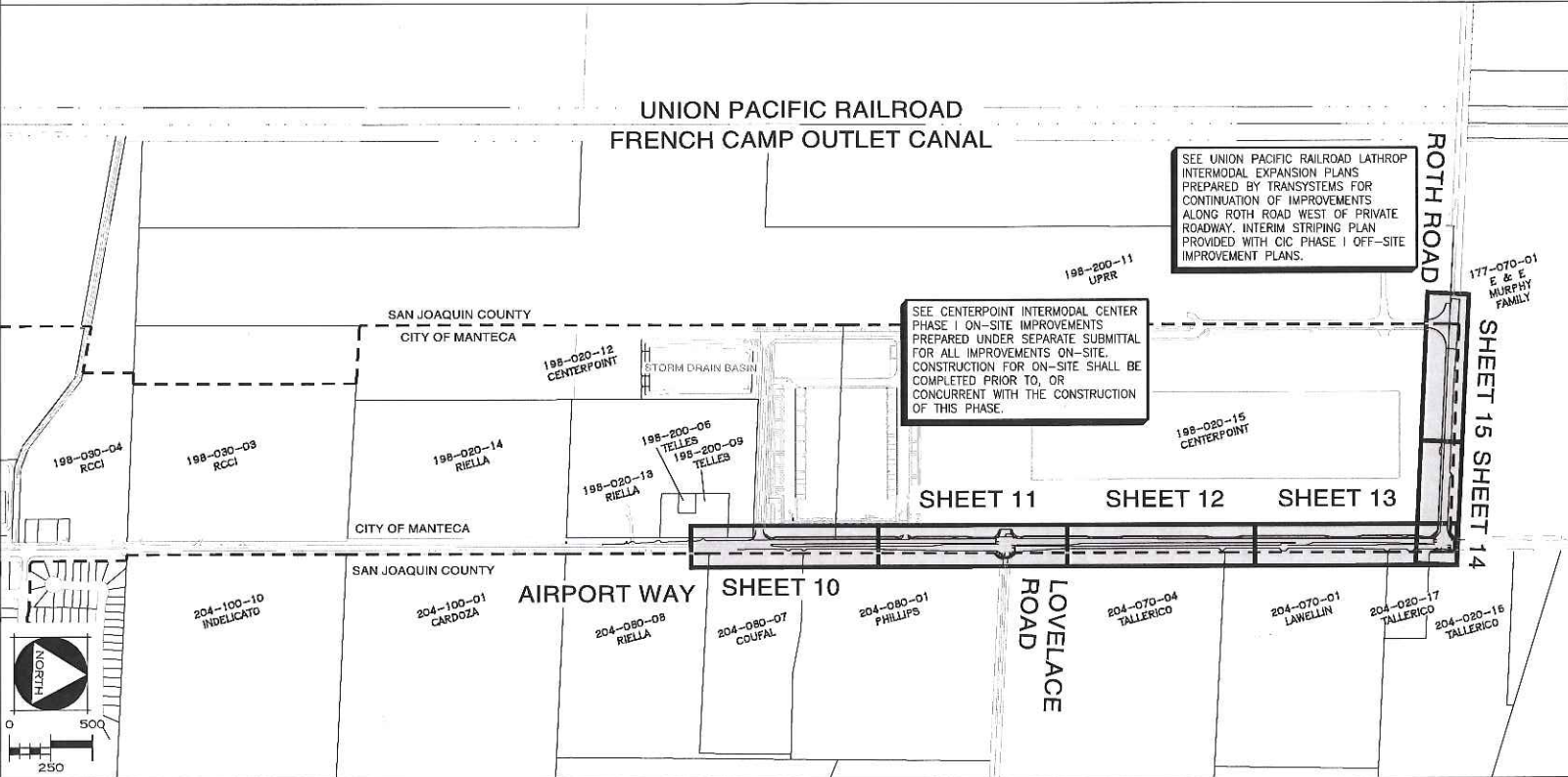
VICINITY MAP



LEGEND

ITEM	EXISTING	PROPOSED
WATER VALVE		
WATER HOSE BIB		
AIR RELEASE VALVE		
BLOWOFF		
FIRE HYDRANT		
WATER METER		
IRRIGATION BOX		
SEWER MANHOLE		
STORM MANHOLE		
DRAIN INLET		
CURB INLET		
CLEANOUT		
WATER LINE		
SANITARY SEWER		
STORM DRAIN		
TYPICAL ELECTROLYZER		
TYPICAL LUMINAIRE		
ELECTRICAL VAULT		
SURVEY MONUMENT		
UTILITY POLE		
SIGNAGE		
ELEVATION		
DIRECTION OF FLOW		
ORIGINAL GROUND		
CONTOUR (0.5' INTERVAL)		
BARBED WIRE FENCE		
WOOD FENCE		
RETAINING WALL		
MASONRY WALL		
CURB, GUTTER & SIDEWALK		
TYPICAL RETURN WITH HANDICAP RAMP		
TREE		
PAVEMENT		

SITE PLAN



ABBREVIATION LIST

AB	AT	E, EX, OR EXIST	EXISTING	RCP	REINFORCED CONCRETE PIPE
AC	AGGREGATE BASE	FL	FIRE HYDRANT	RGRCP	RUBBER GASKET REINFORCED CONCRETE PIPE
ADA	AMERICAN DISABILITIES ACT	FL	FLOW LINE	RET	RETURN
BC	BEGINNING OF CURVE	G	GROUND	R	RADIUS
BDRY	BOUNDARY	GB	GRADE BREAK	SD	STORM DRAIN
BSL	BUILDING SET BACKLINE	HP	HIGH POINT	SHI	SHEET
BVC	BEGIN VERTICAL CURVE	HGL	HYDRAULIC GRADE LINE	SNS	STREET NAME SIGN
C & G	CURB AND GUTTER	HPS	HIGH PRESSURE SODIUM	STA	STATION
CIPP	CAST IN PLACE PIPE	INV	INVERT	STD	STANDARD
CI	CURB INLET	IRR	IRRIGATION	S/W	SIDEWALK
CL	CENTER LINE	LF	LINEAL FEET OR LINEAL FEET	SS	SLOPE
CO	CLEAN OUT	LP	LOW POINT	SSWD	SOUTH SAN JOAQUIN IRRIGATION DISTRICT
CONC	CONCRETE	MAX	MAXIMUM	TC	TOP OF CURB
CR	CURB RETURN	MH	MAINTENANCE HOLE	TEMP	TEMPORARY
DIA	DIAMETER	MIN	MINIMUM	THRU	THROUGH
DIP	DUCTILE IRON PIPE	NTS	NOT TO SCALE	TI	TRAFFIC INDEX
DW	DRIVEWAY	OG	ORIGINAL GROUND / GRADE	TPE	TREE PLANTING EASEMENT
D OR SD	DRAIN OR STORM DRAIN	P	PROPOSED	TYP	TYPICAL
EC	END OF CURVE	PP	POWER POLE	WS	WATER SERVICE
ELEV	ELEVATION	PL	PROPERTY LINE	W	WATER
EP	EDGE OF PAVEMENT	PRC	POINT OF REVERSE CURVATURE	±	PLUS OR MINUS (NOT EXACT)
ESMT	EASEMENT	PT	POINT	U.N.O.	UNLESS NOTED OTHERWISE
EVC	END OF VERTICAL CURVE	PUE	PUBLIC UTILITY EASEMENT		
		PVC	POLYVINYL CHLORIDE PIPE		

APPROVALS

SOUTH SAN JOAQUIN IRRIGATION DISTRICT

S.S.J.I.D., its employees and agents are not responsible for verification of the elevations and dimensions indicated on plans nor any errors or omissions that may be present. Approval is subject to the data shown which appears to be in conformity with S.S.J.I.D. requirements for protection of District Facilities. So Conditionally Approved

DATE _____

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

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

ACCEPTED: *Ally Putter* DATE: 9/29/17
RCE NO.: 155408 EXP. DATE: 12/31/18

ENCROACHMENT PERMIT NO.: 15-1702531 DATE ISSUED: 8/31/2017 BY: Scott Cooper

SHEET INDEX

#	SHEET TITLE
1	INDEX, ABBREVIATIONS, & LEGEND
2	SPECIFICATIONS
3	STANDARD DETAILS
4	CONSTRUCTION DETAILS & TYPICAL CROSS SECTIONS
5-6	TOPOGRAPHIC SURVEY & DEMO PLAN
7-9	STRIPING PLAN & SIGNAGE PLAN
10	PLAN & PROFILES
11	AIRPORT WAY STA: 70+60 - 82+00
12	AIRPORT WAY STA: 82+00 - 93+40
13	AIRPORT WAY STA: 93+40 - 104+80
14	AIRPORT WAY STA: 104+80 - 116+25
15	ROTH ROAD STA: 23+20 - 30+00
16	ROTH ROAD STA: 15+00 - 23+20
17-31	EROSION CONTROL PLAN
TS1-5	LANDSCAPE PLANS
TS1-5	TRAFFIC SIGNAL PLANS

WDID: 5S39C378478

IMPORTANT!

DEVELOPER, GENERAL CONTRACTOR & ELECTRICAL CONTRACTOR PLEASE NOTE:
BEFORE BEGINNING TRENCHING AND SUBSTRUCTURE WORK,
PLEASE CALL 2 WORKING DAYS IN ADVANCE:

PG&E UNDERGROUND INSPECTION DESK @
(209) 942-1786 OFFICE (209) 942-1788 FAX (PREFERRED)

WORK NOT PROPERLY INSPECTED MAY BE REJECTED.
FOR JOB SCHEDULING INFORMATION PLEASE CALL PG&E
PROJECT MANAGER: CHRIS CALLAS @ 209-942-1618

IF THERE ARE CONFLICTS BETWEEN LANDSCAPINGS
(MOUNDS, BERMS, TREES, BUSHES...) AND SUBSTRUCTURE
INSTALLATIONS (SPUR BOXES, TRANSFORMER PAD...) PLEASE
CONTACT THE INSPECTOR PRIOR TO INSTALLATION.

811

Know what's below.
Call before you dig.
811 / 800-227-2600
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APPROVED SUBJECT TO THE DATA SHOWN. CITY OF
MANTECA AND THE UNDERSIGNED ARE NOT RESPONSIBLE
FOR ERRORS AND/OR OMISSIONS THAT MAY BE
PRESENT ON THESE PLANS.

CITY ENGINEER, CITY OF MANTECA DATE _____

COVER SHEET

CENTERPOINT INTERMODAL CENTER
OFF-SITE IMPROVEMENTS
MANTECA, CALIFORNIA

REVISIONS			
NO.	DESCRIPTIONS	DATE	APPROVED

MCR ENGINEERING
www.mcreng.com

MCR ENGINEERING, INC.
1242 DUPONT COURT
MANTECA, CA 95336
TEL: (209) 239-6229
FAX: (209) 239-8839

JOB NO. 15-085
DATE MARCH 2017
SCALE AS SHOWN
DR. BY SLS
CK. BY JDE
FILE: 15-085\DWG\IMP



SHEET NUMBER
1
OF 16

GENERAL NOTES:

- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FOLLOWING: CITY OF MANTECA STANDARD SPECIFICATIONS, AND ALL AMENDMENTS TO DATE, CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (CALTRANS) (LATEST EDITION), WHERE APPLICABLE. ALL WORK SHALL BE UNDER THE INSPECTION OF THE RESPECTIVE ENTITY.
- IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS AND SPECIFICATIONS. IF 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 FIRST QUALITY ARE TO BE USED.
- CONSTRUCTION STAKING FOR GRADING, CURB, GUTTER, SIDEWALK, SANITARY SEWER, STORM DRAIN AND WATER SHALL BE DONE UNDER THE DIRECTION OF M.C.R. ENGINEERING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SEVENTY-TWO (72) HOURS IN ADVANCE OF THIS NEED FOR STAKING. ANY STAKING REQUESTED BY THE CONTRACTOR OR HIS SUBCONTRACTORS THAT IS ABOVE AND BEYOND NORMAL STANDARD SUBDIVISION STAKING NEEDS, WILL BE SUBJECT TO AN EXTRA BACK CHARGE TO THE CONTRACTOR.
- THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSE FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.
- 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, ENGINEER AND THE CITY 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 THE ENGINEER.
- UNLESS OTHERWISE STATED, ALL STATIONS INDICATED ON THE IMPROVEMENT PLANS ARE REFERENCED TO THE CENTERLINE OF THE STREET. ALL STATIONS OFF CENTER ARE PERPENDICULAR TO OR RADUALLY OPPOSITE CENTERLINE STATIONS, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY ENGINEER.
- THE CONTRACTOR 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 CONTROLS, WARNING SIGNS, LIGHTS AND DEVICES FOR USE IN PERFORMANCE OF WORK UPON HIGHWAY" PUBLISHED BY THE STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY.
- THE OFFICE OF THE CITY ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY WORK.
- P. C. & E., TELEPHONE AND CABLE TV UNDERGROUND WORK SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF THE CURB, GUTTER, SIDEWALK AND PAVING.
- THE CITY OF MANTECA AND ASSOCIATED UTILITY COMPANY AND RESIDENCES TO BE AFFECTED SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION OTHER THAN SPECIFIED ON THESE IMPROVEMENT PLANS AND A 24 HOUR NOTICE SHALL BE GIVEN FOR ANY PLANNED DISRUPTION.
- THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF MANTECA, DEPARTMENT OF PUBLIC WORKS OR ANY OTHER APPLICABLE AGENCIES PRIOR TO COMMENCEMENT OF WORK WITHIN EXISTING CITY RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT.
- STREET SIGNS, TRAFFIC CONTROL SIGNS, AND PAVEMENT MARKINGS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT LOCATIONS ESTABLISHED BY THE ENGINEER.
- ASPHALT CONCRETE SHALL BE PLACED ONLY WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 50°F.
- DRIVEWAYS ON STREETS TO BE LOCATED IN THE FIELD BY THE ENGINEER AT THE TIME OF CONSTRUCTION. DRIVEWAYS SHALL NOT COINCIDE WITH WHEELCHAIR RAMPS.
- DRAWING NUMBERS SHOWN ON THE PLANS REFER TO DRAWINGS CONTAINED IN THE CITY OF MANTECA STANDARD SPECIFICATIONS, THUS: (I.E. DWG. ST-19).
- 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 ALERT (U.S.A.) 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 642-2444. THE CONTRACTOR SHALL RECORD THE U.S.A. ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER PRIOR TO ANY EXCAVATION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE DEVELOPMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND REPLACEMENT OF EXISTING IMPROVEMENTS.
- WHENEVER PAVEMENT IS BROKEN OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS, THE PAVEMENT SHALL BE REPLACED, AFTER PROPER BACKFILLING, WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING. THE FINISHED PAVEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER, OR CALTRANS, WHERE APPLICABLE.
- PAYMENT FOR PAVEMENT WILL BE MADE ONLY FOR AREAS SHOWN ON THE PLANS REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS, AND WHICH LIES OUTSIDE OF SAID AREAS. SHALL BE INDICATED IN THE CONTRACTOR'S UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.
- EXCAVATIONS OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY. FOR TRENCHES 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH SECTION 5-1.02A OF THE CALTRANS STANDARDS, CHAPTER 9 OF THE STATE OF CALIFORNIA LABOR CODE, AND ANY LOCAL CODES OR ORDINANCES.
- WE CALL YOUR ATTENTION TO TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONS SAFETY AND HEALTH ACT OF 1973 AS AMENDED WHICH STATES: (1) PRIOR TO OPENING AN EXCAVATION EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATIONS, I.E. SEWER, WATER, FUEL, ELECTRICAL LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH 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.
- ALL TRENCHES ON MAJOR AND COLLECTOR STREETS AND CROSS TRENCHES ON ALL STREETS SHALL BE PAVED WITH TEMPORARY PAVING THE SAME DAY THE PAVEMENT CUT IS MADE.

- APPROPRIATE DUST CONTROL SHALL BE PROVIDED, AT THE CONTRACTOR'S EXPENSE TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE CITY OF MANTECA.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, PRIOR TO FINAL ACCEPTANCE, AS-BUILT DRAWINGS OF ALL IMPROVEMENTS REPRESENTED BY THE PROJECT PLANS AND SPECIFICATIONS.
- AFTER CONSTRUCTION OF ALL IMPROVEMENTS, THE ENGINEER SHALL SUBMIT ONE SET OF REPROducible PLANS, FINAL INVERT ELEVATIONS FOR SEWER AND STORM DRAIN LINES THAT ARE TO BE EXTENDED FOR FUTURE CONSTRUCTION SHALL ALSO BE SHOWN ON THE "AS-BUILT" PLANS ALL AS PROVIDED TO THE ENGINEER BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY M.C.R. ENGINEERING AT LEAST 48 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN ACCORDANCE WITH THE CITY OF MANTECA STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE CITY WITH A CERTIFICATE SIGNED BY A REGISTERED CIVIL ENGINEER STATING THAT ALL BUILDING PAD ELEVATIONS ARE IN ACCORDANCE WITH THE APPROVED GRADING PLAN.
- TO COMPLY WITH THE STATE OF CALIFORNIA'S STATE WIDE GENERAL NPDES PERMIT, REGULATING DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM SOIL DISTURBANCES OF ONE (1) ACRE OR MORE, A NOTICE OF INTENT (NOI) TO COMPLY WITH THE TERMS OF THE GENERAL NPDES PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE FILED, AND APPROPRIATE FEE PAID PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, AT THE CONCLUSION OF THE PROJECT A NOTICE OF TERMINATION MUST ALSO BE FILED, SUBMIT THE FEE, A NOTICE OF INTENT, AND NOTICE OF TERMINATION TO THE STATE RESOURCES CONTROL BOARD AT THE FOLLOWING ADDRESS:

STATE WATER RESOURCES CONTROL BOARD
DIVISION OF WATER QUALITY
PO BOX 1977
SACRAMENTO, CA 95812-1977
ATTN: STORM WATER PERMITTING SECTION

IF YOU HAVE ANY QUESTIONS CALL WATER QUALITY CONTROL ENGINEER, CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD AT (916) 255-3026.

- 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 (SWPPP) IN ACCORDANCE WITH THE SWRCB REGULATIONS. CONTRACTOR SHALL IMPLEMENT AND MONITOR THE SWPPP AND AMEND AS NECESSARY.
- BENCHMARK: CITY OF MANTECA BENCHMARK NUMBER 2
ELEVATION: 26.146
DESCRIPTION: COUNTY BENCHMARK S-333, BRASS CAP ON 4X4 CONCRETE POST SW CORNER OF LATHROP ROAD AND AIRPORT WAY.

STORM DRAIN NOTES:

- ALL STORM DRAIN CONSTRUCTION AND MATERIALS, SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MANTECA PUBLIC WORKS DEPARTMENT STANDARD PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMAN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5 FEET OR MORE. SAID PROTECTION TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MANTECA DEPARTMENT OF PUBLIC WORKS, AND STATE REGULATIONS.
- ALL MANHOLE RIMS TO BE ADJUSTED TO FINISH GRADE AFTER STREET PAVING, UNLESS OTHERWISE NOTED. COST FOR RAISING FACILITIES TO BE INCLUDED IN UNIT PRICES FOR MANHOLES.
- THE CONTRACTOR SHALL EXPOSE ALL EXISTING STORM DRAIN PIPES, WHERE A CONNECTION IS TO BE MADE, AND NOTIFY THE ENGINEER IF THERE IS A DISCREPANCY BETWEEN THE SIGNED PLANS AND THE EXISTING FIELD CONDITION PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR TO BE RESPONSIBLE FOR ALL TESTING OF STORM DRAIN FACILITIES IN ACCORDANCE WITH THE CITY OF MANTECA'S STANDARD SPECIFICATION AND PLANS.
- ALL STORM DRAIN LINES SHALL BE CLEARED OF ALL SAND AND DEBRIS PRIOR TO ACCEPTANCE BY THE CITY OF MANTECA.
- INSTALLATION AND CONSTRUCTION RELATIVE TO S.S.J.I.D. FACILITIES SHALL BE IN ACCORDANCE WITH S.S.J.I.D. STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL A "TRACE WIRE" ON ALL FORCE MAINS. REFER TO CITY STD. W-2 NOTE 15 FOR DETAILS.
- UNLESS OTHERWISE SPECIFIED ON PLANS PIPE WITH DEPTH OF COVER GREATER THAN 10' SHALL BE SDR-26

SANITARY SEWER NOTES:

- ALL SANITARY SEWER CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MANTECA STANDARD SPECIFICATIONS AND PLANS.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMAN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5' OR MORE. SAID PROTECTION TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MANTECA DEPARTMENT OF PUBLIC WORKS, AND STATE REGULATIONS.
- THE CONTRACTOR SHALL EXPOSE ALL EXISTING SANITARY SEWER PIPES WHERE CONNECTION IS TO BE MADE, SO THAT THE ENGINEER CAN VERIFY EXISTING FLOW LINES AND LOCATIONS BEFORE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN, OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY MARKING INSTALLED LOCATION OF SERVICE LATERALS. THE CONTRACTOR SHALL STAMP AN "X" AT THE BACK OF SIDEWALK DIRECTLY OVER THE SERVICE.
- ALL SANITARY SEWER LATERALS SHALL BE EXTENDED TO 3' PAST THE PROPERTY LINE (AS DIMENSIONED ON "LOT UTILITY LAYOUT" DETAIL) AND PLUGGED (SEE STD. DWG. S-12).
- ALL TESTING REQUIRED BY THE CITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING THE TELEVISIONING OF ALL SEWER LINES.
- MANHOLE CASTINGS AND COVERS SHALL BE ADJUSTED TO FINISH GRADES BY THE PAVING CONTRACTOR AFTER STREET IMPROVEMENTS ARE COMPLETED. COST FOR ADJUSTING FACILITIES TO BE INCLUDED IN THE UNIT PRICE FOR MANHOLES AND CLEANOUTS.
- CONTRACTOR SHALL INSTALL A "TRACE WIRE" ON ALL FORCE MAINS. REFER TO CITY STD. W-2 NOTE 15 FOR DETAILS.
- UNLESS OTHERWISE SPECIFIED ON PLANS PIPE WITH DEPTH OF COVER GREATER THAN 10' SHALL BE SDR-26

WATER NOTES:

- ALL WATER CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MANTECA STANDARD SPECIFICATIONS AND PLANS.
- ALL HOUSE SERVICES SHALL BE 1" DIAMETER, UNLESS OTHERWISE NOTED. ALL SERVICE LATERALS SHALL BE EXTENDED PAST THE PROPERTY LINE AND CAPPED.
- CONTRACTOR SHALL EXPOSE EXISTING WATER LINES TO VERIFY EXISTING ELEVATION AND LOCATION PRIOR TO START OF CONSTRUCTION.
- ALL WATER LINES SHALL BE TESTED AND DISINFECTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE CITY OF MANTECA AND THE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS, SECTION C-651.
WATER LINE TESTING SHALL INCLUDE:
HYDROSTATIC PRESSURE TESTING PER CITY OF MANTECA STANDARD SPECIFICATION 99-1.14
BACTERIOLOGICAL TESTING PER CITY OF MANTECA STANDARD SPECIFICATION 99-1.15 AND AWWA C651
AFTER FINAL FLUSHING AND BEFORE THE NEW WATER MAIN IS CONNECTED TO THE DISTRIBUTION SYSTEM, TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES, TAKEN 24 HOURS APART, SHALL BE COLLECTED FROM THE NEW MAIN. SAMPLES SHALL BE COLLECTED AT SITES AS DIRECTED BY CITY. (AT LEAST ONE SET OF SAMPLES SHALL BE COLLECTED EVERY 1200 FEET OF THE NEW WATER MAIN, PLUS ONE SET FROM EACH END OF THE LINE AND AT LEAST ONE SET FROM EACH BRANCH). ALL SAMPLES SHALL BE TESTED FOR BACTERIOLOGICAL QUALITY, AND SHALL SHOW THE ABSENCE OF COLOFORM ORGANISMS. A STANDARD HETEROTROPHIC PLATE COUNT MAY BE REQUIRED AT THE OPTION OF THE CITY ENGINEER.
SAMPLES SHALL BE TAKEN FROM WATER THAT HAS STOOD IN THE NEW MAIN FOR AT LEAST 16 HOURS AFTER FINAL FLUSHING HAS BEEN COMPLETED.
IF THE INITIAL INSPECTION FAILS TO PROVIDE SATISFACTORY BACTERIOLOGICAL SAMPLES, THE MAIN SHALL BE REFRESHED AND RESAMPLED DAILY FROM THE SAME POINT(S) UNTIL TWO CONSECUTIVE SAMPLES ARE NEGATIVE FOR COLOFORM ORGANISMS.
THE CITY OF MANTECA SHALL PAY FOR THE INITIAL BACTERIOLOGICAL TESTS. THE CONTRACTOR SHALL PAY FOR ALL TESTING NECESSARY IN THE EVENT OF FAILURE OF THE INITIAL TEST(S).
IF TRENCH WATER HAS ENTERED THE NEW MAIN DURING CONSTRUCTION OR, IF IN THE OPINION OF THE CITY OF MANTECA, EXCESSIVE QUANTITIES OF DIRT OR DEBRIS HAVE ENTERED THE NEW MAIN, BACTERIOLOGICAL SAMPLES SHALL BE TAKEN AT INTERVALS OF APPROXIMATELY 200 FEET AND SHALL BE IDENTIFIED BY LOCATION. THE CONTRACTOR SHALL INSTALL ADDITIONAL WATER SERVICE TAPS AND SAMPLING STATIONS AS REQUIRED. THE CONTRACTOR SHALL ALSO REMOVE SAMPLING STATIONS AND SERVICES UPON SATISFACTORY COMPLETION OF TESTING. THE CONTRACTOR SHALL PAY FOR TESTING OF THE CONTAMINATED AREAS.
CONTRACT PRICE SHALL INCLUDE FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS, AND FOR DOING ALL OF THE WORK INVOLVED IN TESTING AND DISINFECT ION OF THE WATER MAINS.
- CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN, OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY MARKING THE INSTALLED LOCATION OF SERVICE LATERALS. THE CONTRACTOR SHALL STAMP A "W" AT THE BACK OF SIDEWALK DIRECTLY OVER THE SERVICE.
- WATER LINES SHALL BE A MINIMUM OF 10 FEET OUTSIDE OF PIPE TO OUTSIDE OF PIPE FROM SEWER AND STORM DRAIN MAINS. CROSSINGS SHALL MEET STATE PAVING STANDARDS.
- ALL VALVE BOXES TO BE ADJUSTED TO FINISH GRADE AFTER STREET PAVING. COST FOR RAISING FACILITIES TO BE INCLUDED IN UNIT PRICES FOR VALVES.
- FOR EXCAVATIONS OF FIVE FEET OR MORE, TRENCHES SHALL BE MADE IN CONFORMANCE WITH APPROPRIATE SHORING SYSTEM STANDARDS.
- ALL CONNECTIONS TO EXISTING CITY FACILITIES SHALL BE MADE IN THE PRESENCE OF THE CITY ENGINEER, OR HIS APPOINTED REPRESENTATIVE.

GRADING NOTES:

- EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF MANTECA STANDARDS, F.H.A. STANDARDS, AND THE SOILS REPORT BY NEIL O. ANDERSON AND ASSOCIATES DATED 08-15-2008. ALL FILL AREAS SHALL BE TESTED AS REQUIRED BY THE CITY OF MANTECA AND F.H.A., AND SHALL BE PAID FOR BY THE CONTRACTOR.
- THE CITY SHALL BE RESPONSIBLE FOR COST OF INITIAL TEST FOR MOISTURE DENSITY CURVE. IF THE FIRST TEST FAILS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COST OF ALL SUBSEQUENT CURVES AND TESTS.
- EXCESS EARTH GENERATED FROM UNDERGROUND INSTALLATION AND ROADWAY GRADING SHALL BE PLACED AS DIRECTED BY M.C.R. ENGINEERING.
- THE CONTRACTOR SHALL REVIEW SITE PRIOR TO BIDDING. ALL VEGETATION AND DELETERIOUS MATERIALS SHALL BE REMOVED FROM THE SITE AT THE EXPENSE OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE LUMP SUM CLEARING COST.
- THE CONTRACTOR SHALL PRESERVE ALL STAKES AND POINTS SET FOR LINES, GRADES OR MEASUREMENT OF THE WORK IN THEIR PROPER PLACES 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.
- ALL EXISTING WELLS AND SEPTIC TANKS SHALL BE REMOVED AND/OR ABANDONED PER THE REQUIREMENTS OF THE SAN JOAQUIN LOCAL HEALTH DISTRICT AND THE CITY OF MANTECA. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CLEARING COST.

SIGNAL PULL BOXES AND HANDHOLES:

- PULL BOXES SHALL BE PRE-CAST REINFORCED CONCRETE WITH "TRAFFIC SIGNAL," "SERVICE," OR "SIGNAL INTERCONNECT" STAMPED ON LIDS. HANDHOLES SHALL BE TYPE A.
- THE BOTTOMS OF PULL BOXES SHALL BE GROUDED. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 86-2.06C OF THE STATE STANDARD SPECIFICATIONS.
- PULL BOXES SHALL BE STATE #5 MINIMUM. LARGER SIZES SHALL BE INSTALLED WHERE REQUIRED BY THE NATIONAL ELECTRICAL CODE OR WHERE SHOWN ON THE PLANS.

ELECTROLIER NOTES:

- ALL ELECT AND CONDUIT INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF MANTECA STANDARD SPECIFICATIONS AND THE SERVING UTILITIES' STANDARDS. ALL LIGHTING TO BE LED.
- ALL STREET LIGHTING SHALL BE CONSTRUCTED BY AND AT A COST TO THE DEVELOPER SUCH THAT OWNERSHIP OF THE STREET LIGHTS ARE TO BE PROVIDED TO THE CITY OF MANTECA.
- ALL POLES AND ARMS SHALL BE CONTINUOUSLY TAPERED, ROUND IN CROSS SECTION HAVING DIAMETERS AS SHOWN ON THE STANDARD DRAWINGS.
- ALL DIMENSIONS SHOWN ON THE STANDARD DRAWINGS ARE MINIMUMS AND SHALL BE MAINTAINED.
- POLES SHALL BE GALVANIZED STEEL TAPERED TUBE AND/OR ALUMINUM EQUAL.
- TOP OF PULL BOXES AND FOUNDATIONS FOR STANDARDS SHALL BE LEVEL WITH THE BACK OF WALK IN SIDEWALK AREA OR SURROUNDING GRADE IN OTHER AREAS.
- ALL CONDUIT TO BE USED SHALL BE RIGID METAL OR SCHEDULE 40 P.V.C. AND SHALL BE BURIED TO THE FOLLOWING DEPTH:
A. WITHIN SIDEWALK OR PARKWAY AREA: 2'-0" MINIMUM
B. WITHIN ROADWAY AREA: 3'-0" MINIMUM
- THE CONTRACTOR SHALL SIZE CONDUCTOR AND CONDUIT ACCORDING TO THE SERVICE REQUIREMENTS; HOWEVER, NO. 8 A.W.G. CONDUCTOR AND 1 1/2" CONDUIT SHALL BE A MINIMUM.
- THE UNDERGROUND CONDUIT AND ALL METAL PARTS SHALL BE CONTINUOUSLY BONDED AND GROUNDED.

- MINIMUM RADIUS OF BENDS TO BE 18". ALL BENDS AND/OR OFFSETS SHALL BE MADE WITH FACTORY SECTIONS.
- ALL SPLICES TO BE APPROVED SOLDERLESS WATER PROOF CONNECTIONS FOR PROPER SIZE.
- ALL EMPTY CONDUITS SHALL BE CAPPED AND A 1/4" NYLON PULL ROPE PROVIDED INSIDE.
- UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER, A NO. 3 1/2 PULL BOX (STATE STANDARD ES-8) SHALL BE INSTALLED AT ALL STREET LIGHT STANDARDS. PULL BOXES SHALL BE NOT MORE THAN 250 FEET APART ON LONG RUNS. COVERS TO BE INSCRIBED "STREET LIGHTING".
- STREET LIGHT CIRCUIT PLAN WILL BE REQUIRED ON "AS BUILT" PLANS.

DEWATERING NOTES:

- THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE AND MAINTAIN ALL MACHINERY, APPLIANCES, AND EQUIPMENT TO MAINTAIN ALL EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION. THE CONTRACTOR SHALL DISPOSE OF THE WATER SO AS NOT TO CAUSE DAMAGE TO PUBLIC OR PRIVATE PROPERTY, OR TO CAUSE A NUISANCE OR MENACE TO THE PUBLIC OR VIOLATE THE LAW. THE DEWATERING SYSTEM SHALL BE INSTALLED AND OPERATED SO THAT THE GROUNDWATER LEVEL OUTSIDE THE EXCAVATION IS NOT REDUCED TO THE EXTENT WHICH WOULD CAUSE DAMAGE OR ENDANGERED ADJACENT STRUCTURES OR PROPERTY. ALL COST FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ALL PIPE CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 1 FOOT BELOW THE BOTTOM TO EXCAVATIONS TO MAINTAIN THE UNDISTURBED STATE OF NATURAL SOILS AND ALLOW THE PLACEMENT OF ANY FILL TO THE SPECIFIED DENSITY. THE CONTRACTOR SHALL HAVE ON HAND, PUMPING EQUIPMENT AND MACHINERY IN GOOD WORKING CONDITION FOR EMERGENCIES AND SHALL HAVE WORKMEN AVAILABLE FOR ITS OPERATION. DEWATERING SYSTEMS SHALL OPERATE CONTINUOUSLY UNTIL BACKFILL HAS BEEN COMPLETED TO 1 FOOT ABOVE THE NORMAL STATIC GROUNDWATER LEVEL.
- THE CONTRACTOR SHALL CONTROL SURFACE WATER TO PREVENT ENTRY INTO EXCAVATIONS. AT EACH EXCAVATION, A SUFFICIENT NUMBER OF TEMPORARY OBSERVATION WELLS TO CONTINUOUSLY CHECK THE GROUNDWATER LEVEL SHALL BE PROVIDED.
- SUMPS SHALL BE NO DEEPER THAN 5 FEET AND SHALL BE AT THE LOW POINT OF EXCAVATION. EXCAVATION SHALL BE GRADED TO DRAIN TO THE SUMPS.
- THE CONTROL OF GROUNDWATER SHALL BE SUCH THAT SOFTENING OF THE BOTTOM OF EXCAVATIONS, OR FORMATION OF "QUICK" CONDITIONS OR "BOILS," DOES NOT OCCUR. DEWATERING SYSTEMS SHALL BE DESIGNED AND OPERATED SO AS TO PREVENT REMOVAL OF THE NATURAL SOILS. THE RELEASE OF GROUNDWATER AT ITS STATIC LEVEL SHALL BE PERFORMED IN SUCH A MANNER AS TO MAINTAIN THE UNDISTURBED STATE OF THE NATURAL FOUNDATIONS SOILS, PREVENT DISTURBANCE OF COMPACTED BACKFILL, AND PREVENT FLOTATION OR MOVEMENT OF STRUCTURES, PIPELINES AND SEWERS. IF AN NPDES (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR DISPOSAL OF WATER FROM CONSTRUCTION DEWATERING ACTIVITIES, IT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY DEWATERING ACTIVITIES.
- ONE HUNDRED PERCENT STANDBY PUMPING CAPACITY SHALL BE AVAILABLE ON SITE AT ALL TIMES AND SHALL BE CONNECTED TO THE DEWATERING SYSTEM PIPING TO PERMIT IMMEDIATE USE. IN ADDITION, STANDBY AUXILIARY EQUIPMENT AND APPLIANCES FOR ALL ORDINARY EMERGENCIES, AND COMPETENT WORKMEN FOR OPERATION AND MAINTENANCE OF ALL DEWATERING EQUIPMENT SHALL BE ON SITE AT ALL TIMES. STANDBY EQUIPMENT SHALL INCLUDE EMERGENCY POWER GENERATION AND AUTOMATIC SWITCH OVER TO THE EMERGENCY GENERATOR WHEN NORMAL POWER FAILS. DEWATERING SYSTEMS SHALL NOT BE SHUT DOWN BETWEEN SHIFTS, ON HOLIDAYS, ON WEEKENDS, OR DURING WORK STOPPAGES.
- CONTRACTOR SHALL COMPLY WITH SWRCB REQUIREMENTS FOR DISCHARGING WATER FROM ANY DEWATERING OPERATION, INCLUDING OBTAINING ALL NECESSARY PERMITS.

SOUTH SAN JOAQUIN IRRIGATION DISTRICT NOTES:

THE FOLLOWING APPLY TO WORK WITHIN SOUTH SAN JOAQUIN IRRIGATION DISTRICT RIGHT-OF-WAY OR EASEMENTS AND ALL WORK ON SOUTH SAN JOAQUIN IRRIGATION DISTRICT IRRIGATION PIPELINES AND CANALS:

- SOUTH SAN JOAQUIN IRRIGATION DISTRICT SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK ON OR NEAR IRRIGATION LINES. CONSTRUCTION ON OR NEAR IRRIGATION LINES MUST BE COMPLETED BETWEEN OCTOBER 15 AND FEBRUARY 15 OF ANY YEAR. BETWEEN THE DATES OF FEBRUARY 15 AND OCTOBER 15, IRRIGATION LINES WILL BE USED FOR IRRIGATION PURPOSES ONLY AND AS SUCH, UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH THE DISTRICT, CONSTRUCTION WILL NOT BE ALLOWED. FOR ALL CONSTRUCTION WORK INVOLVING PIPELINES USED TO CONVEY STORMWATER, THE CONTRACTOR SHALL COMPLETE ALL SUCH CONSTRUCTION IN A TIMELY AND DILIGENT MANNER WITHOUT RESTRICTING THE NORMAL FLOW OF WATER WITHIN THE LINE.
- USED MATERIALS, REJECTS, MISFITS, OR SECONDS, ETC. ARE NOT ACCEPTABLE FOR USE ON DISTRICT FACILITIES.
- SOUTH SAN JOAQUIN IRRIGATION DISTRICT SHALL INSPECT ALL WORK PHASES ON IRRIGATION FACILITIES FOR CONFORMANCE TO DISTRICT SPECIFICATIONS. REINFORCING SHALL NOT BE ENCASED IN CONCRETE WITHOUT PRIOR DISTRICT INSPECTION. LIKEWISE, CONCRETE SHALL NOT BE COVERED WITH EARTH PRIOR TO DISTRICT INSPECTION.
- DISTRICT SHALL BE PROVIDED WITH NAME, ADDRESS, AND PHONE NUMBER OF CONTRACTORS, SUBCONTRACTORS, ETC. RESPONSIBLE FOR WORK BEING PERFORMED ON DISTRICT FACILITIES. ALSO, PROVIDE NAME AND NUMBER OF CONTACT PERSON RESPONSIBLE FOR OVERSEEING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR HEREBY AGREES TO MAKE, AT HIS OWN EXPENSE, ALL REPAIRS OR REPLACEMENTS NECESSITATED BY DEFECTS IN MATERIALS OR WORKMANSHIP, SUPPLIED FOR DISTRICT FACILITIES, AND PAY FOR ANY DAMAGE TO OTHER WORKS RESULTING FROM SUCH DEFECTS WHICH BECOME EVIDENT WITHIN 3 YEARS AFTER THE DATE OF FINAL ACCEPTANCE OF WORK. THE CONTRACTOR FURTHER AGREES TO HOLD THE DISTRICT HARMLESS FROM LIABILITY OF ANY KIND ARISING FROM DAMAGE DUE TO SAID DEFECTS. THE CONTRACTOR SHALL MAKE ALL REPAIRS AND REPLACEMENTS PROMPTLY UPON WRITTEN ORDER FROM THE DISTRICT.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIRS OF ALL PIPELINE CRACKS, WHICH DEVELOP DURING CONSTRUCTION OF IMPROVEMENTS AFFECTING THE PIPELINE.
- THE CONTRACTOR SHALL NOT LEAVE DISTRICT PIPELINE PROJECTS INCOMPLETE FOR MORE THAN TWO WEEKS. WHEN CONDITIONS REQUIRE, CONTRACTOR SHALL PROVIDE A TEMPORARY DIVERSION DITCH TO PROVIDE FOR IRRIGATION WATER DELIVERY OR STORMWATER REMOVAL.
- USE OF PUBLIC UTILITY EASEMENTS: SOUTH SAN JOAQUIN IRRIGATION DISTRICT HAS BEEN GRANTED AN EXCLUSIVE EASEMENT FOR ITS USE AND DISPOSITION. THE PUBLIC UTILITY EASEMENT (PUE) MAY BE PERMITTED TO OVERLAP THE SOUTH SAN JOAQUIN IRRIGATION DISTRICT EASEMENT EITHER ABOVE OR BELOW GROUND WHERE WRITTEN PERMISSION OF SOUTH SAN JOAQUIN IRRIGATION DISTRICT IS OBTAINED PRIOR TO CONSTRUCTION AND AFTER WRITTEN APPLICATION. FURTHERMORE, TRANSFORMERS, PANEL BOXES, METER INSTALLATIONS, PULL BOXES, AND OTHER UTILITY COMPANY FACILITIES OF THE PUE OR ANY OTHER WHICH, IN ANY WAY, ARE PERCEIVED BY SOUTH SAN JOAQUIN IRRIGATION DISTRICT AS OBSTRUCTION TO ITS EASY ACCESS AND/OR MAKING ITS EASEMENTS OR SYSTEMS MAINTAINABILITY, REPAIR, AND REPLACEMENT MORE COMPLEX AND COSTLY ARE PROHIBITED.

- TIME LIMITS FOR DEVELOPMENT PLANS: SOUTH SAN JOAQUIN IRRIGATION DISTRICT HAS ADOPTED "TIME LIMITS" LIMITING THE PERIOD OF ITS APPROVAL SHOULD THE LANDOWNER/DEVELOPER FAIL TO SUBSTANTIALLY COMPLETE HIS DEVELOPMENT PROJECT IN A TIMELY MANNER AND AS PER APPROVED DEVELOPMENT PLANS. THESE "TIME LIMITS" ADOPTED BY SOUTH SAN JOAQUIN IRRIGATION DISTRICT ARE IN MOST CASES EQUAL TO THOSE UTILIZED BY THE GOVERNMENTAL AGENCY OR INSTITUTION RESPONSIBLE FOR DEVELOPMENT APPROVALS. SHOULD THE "TIME LIMIT" BE EXCEEDED, SOUTH SAN JOAQUIN IRRIGATION DISTRICT RESERVES THE RIGHT TO THEN APPLY ANY OF ITS CURRENT DEVELOPMENT STANDARDS AND REQUIREMENTS.
- CONTRACTOR SHALL PUMP SOUTH SAN JOAQUIN IRRIGATION DISTRICT PIPELINE DRY PRIOR TO EXCAVATION UNDERNEATH IT.
- PROVIDE A MINIMUM VERTICAL CLEARANCE OF 2 FEET BETWEEN ANY NON-REINFORCED BOX, PIPE, OR STRUCTURE AND ANY UTILITY CROSSING OR CITY INSTALLATION. LINES PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 5 FEET BETWEEN ANY S.S.J.I.D. BOX OR STRUCTURE AND ANY UTILITY. CONTRACTORS SHALL FOTHOLE OR LOCATE OUTSIDE EDGE OF PIPE TO VERIFY CLEARANCE IF REQUESTED TO DO SO BY DISTRICT INSPECTOR. AT NO COST TO DISTRICT. A MINIMUM 30" COVER SHALL BE PROVIDED OVER ALL DISTRICT PIPELINES, UNLESS OTHERWISE APPROVED BY DISTRICT ENGINEER.
- CONSTRUCTION OF DRIVEWAYS OVER NON-REINFORCED PIPELINES WITH INADEQUATE COVER WILL NOT BE PERMITTED, UNLESS THE PIPELINE IS REPLACED WITH R.C.R.C.P. OR A REINFORCED CONCRETE BRIDGING IS PLACED OVER PIPELINE PER S.S.J.I.D. SPECIFICATIONS. DRIVEWAYS PLACED OVER NON-REINFORCED PIPELINES WITH ADEQUATE COVER SHALL BE CONSTRUCTED IN SECTIONS TO ALLOW FOR EASY REMOVAL WITH MINIMAL DAMAGE IN THE EVENT THAT REPAIRS TO THE PIPELINE WILL BE REQUIRED IN THE FUTURE.
- NO HEAVY EQUIPMENT WILL TRAVEL OVER THE S.S.J.I.D. PIPELINE WITHOUT APPROVED BRIDGING, SAID BRIDGING TO BE APPROVED BETWEEN S.S.J.I.D. AND THE CONTRACTOR.
- S.S.J.I.D. WILL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY GRADING OF EXCAVATION WORK WITHIN DISTRICT EASEMENT.
- CONTRACTOR SHALL ADHERE TO ALL APPLICABLE STANDARDS SPECIFIED WITHIN THE LATEST REVISION OF THE DISTRICT'S STANDARD PLANS AND SPECIFICATIONS, WHICH CAN BE OBTAINED FROM THE ENGINEERING DEPARTMENT AT 5.S.J.I.D. LOCATED AT 11011 E. HWY 152, MANTECA, CA 95335. CONTRACTOR SHALL IMMEDIATELY CONTACT THE DISTRICT'S ENGINEERING DEPARTMENT TO VERIFY ANY PERCEIVED DISCREPANCIES BETWEEN THESE PLANS AND DISTRICT SPECIFICATIONS.
- S.S.J.I.D. HAS GPS MONUMENTS ON MANY OF ITS EXISTING STRUCTURES. PRIOR TO DEMOLITION OF ANY BOX OR STRUCTURE, CONTRACTOR SHALL OBTAIN SURVEY COORDINATES FOR ALL EXISTING GPS SURVEY MONUMENTS. UPON INSTALLATION OF THE NEW PIPELINE, NEW MONUMENTS SHALL BE SET AT EACH NEW MANHOLE. THE NEW COORDINATE DATA SHALL THEN BE PROVIDED TO THE S.S.J.I.D. WITH THE AS-BUILT DRAWINGS.
- AS-BUILT (RECORD DRAWINGS) MUST BE SUBMITTED TO S.S.J.I.D. IN MYLAR AND ELECTRONIC FORMAT PRIOR TO ACCEPTANCE OF WORK SHOWN ON PLANS.
- PRIOR TO THE START OF CONSTRUCTION ON DISTRICT FACILITIES, DISTRICT SHALL BE PROVIDED WITH ALL REQUIRED BONDS AND INSURANCE CERTIFICATES IN ACCORDANCE WITH THE PROVISIONS OF THE DEVELOPER'S AGREEMENT AND CONSTRUCTION PERMIT ISSUED BY DISTRICT. ADDITIONAL CONTRACTORS SHALL OBTAIN A CONSTRUCTION PERMIT AS REQUIRED PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL INSTALL #14 SOLID AND COATED (TW, THIN, THWN, OR MTW) WIRE ON TOP OF MAIN PIPE AND TO APPURTENANCES PER DETAIL ON SHEET 3

MITIGATION AND MONITORING NOTES

- IF BURIED ARCHEOLOGICAL RESOURCES, SUCH AS CHIPPED OR GROUND STONE, HISTORIC DEBRIS, BUILDING FOUNDATIONS, OR HUMAN BONE, ARE INADVERTENTLY DISCOVERED DURING GROUND-DISTURBING ACTIVITIES, WORK WOULD STOP IN THAT AREA AND WITHIN 100 FEET OF THE FIND UNTIL A QUALIFIED ARCHEOLOGIST AND AN INDIVIDUAL WITH AN INTEREST IN THE FIND AND, IF NECESSARY, DEVELOPER APPROPRIATE TREATMENT MEASURES IN CONSULTATION WITH THE CITY AND OTHER APPROPRIATE AGENCIES (SEE ALSO IMPLEMENTATION MEASURE RD-1-48 OF THE GENERAL PLAN [CITY OF MANTECA 2003A]).
- IF HUMAN REMAINS OF NATIVE AMERICAN ORIGIN ARE DISCOVERED DURING PROJECT CONSTRUCTION, IT IS NECESSARY TO COMPLY WITH STATE LAWS RELATING TO THE DISPOSITION OF NATIVE AMERICAN BURIALS, WHICH FALL WITHIN THE JURISDICTION OF THE NATIVE AMERICAN HERITAGE COMMISSION (NAHC) (PRC 5027). IF ANY HUMAN REMAINS ARE DISCOVERED OR RECOGNIZED IN ANY LOCATION OTHER THAN A DEDICATED CEMETERY, THERE WILL BE NO FURTHER EXCAVATION OR DISTURBANCE OF THE SITE OR ANY NEARBY AREA REASONABLY SUSPECTED TO OVERLIE ADJACENT HUMAN REMAINS UNTIL THE COUNTY CORNER HAS BEEN INFORMED AND HAS DETERMINED THAT NO INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED; AND IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE DESCENDANTS OF THE DECEASED NATIVE AMERICANS HAVE MADE A RECOMMENDATION TO THE LANDOWNER OR THE PERSON RESPONSIBLE FOR THE EXCAVATION WORK FOR MEANS OF TREATING OR DISPOSING OF, WITH APPROPRIATE DIGNITY, THE HUMAN REMAINS AND ANY ASSOCIATED GRAVE GOODS AS PROVIDED IN PRC 5027.88; OR THE NAHC WAS UNABLE TO IDENTIFY A DESCENDANT, OR THE DESCENDANT FAILED TO MAKE A RECOMMENDATION WITHIN 24 HOURS AFTER BEING NOTIFIED BY THE COMMISSION.
- IF PALEONTOLOGICAL MATERIALS ARE DISCOVERED DURING ANY SITE PREPARATION, EXCAVATION, OR PROJECT-RELATED ACTIVITIES, WORK WILL STOP IN THE AREA OF THE FIND, AND THE CONTRACTOR WILL NOTIFY THE CITY'S PROJECT MANAGER. A PALEONTOLOGIST WILL BE HIRED BY THE PROJECT PROPONENT TO ASSESS THE NATURE AND IMPORTANCE OF THE FIND AND RECOMMEND APPROPRIATE TREATMENT, CONSISTENT WITH THE SHIP'S 1995 GUIDELINES AND ALL OTHER APPLICABLE STANDARDS OF CARE. IF THE PALEONTOLOGIST IDENTIFIES A NEED, A STATE-LICENSED PROFESSIONAL GEOLOGIST (CALIFORNIA PG) WILL ALSO BE RETAINED TO ASSIST WITH EVALUATING THE POTENTIAL FOR PROJECT WORK TO FURTHER DISTURB THE GEOLOGIC UNITS IN WHICH THE FIND WAS MADE. WORK WILL NOT RESUME IN THE AREA OF THE FIND UNTIL THE FIND HAS BEEN ASSESSED BY THE PALEONTOLOGIST AND ANY TREATMENT IDENTIFIED AS NECESSARY HAS BEEN IMPLEMENTED. HOWEVER, WITH THE PALEONTOLOGIST'S APPROVAL, WORK MAY RESUME ON OTHER PORTIONS OF THE SITE DURING EVALUATION AND TREATMENT OF THE FIND, DEPENDING ON THE NATURE OF THE FIND, ON SITE-SPECIFIC GEOLOGIC CONDITIONS, AND ON THE PROJECT ACTIVITIES PLANNED FOR THE SITE. TREATMENT MAY INCLUDE PALEONTOLOGICAL MONITORING, PREPARATION, AND RECOVERY OF FOSSIL MATERIALS SO THAT THEY CAN BE HOUSED IN AN APPROPRIATE MUSEUM OR UNIVERSITY COLLECTION. TREATMENT ALSO MAY INCLUDE PREPARATION OF A REPORT FOR PUBLICATION DESCRIBING THE FINDS, OR MAY INCLUDE OTHER APPROACHES DEVELOPED FOR THE SITE. THE PROJECT PROPONENT WILL BE RESPONSIBLE FOR ENSURING THAT THE PALEONTOLOGIST'S RECOMMENDATIONS REGARDING TREATMENT AND REPORTING ARE IMPLEMENTED.

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GENERAL NOTES
& SPECIFICATIONS

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OFF-SITE IMPROVEMENTS
MANTECA, CALIFORNIA

REVISIONS			
NO.	DESCRIPTIONS	DATE	APPROVED



MCR ENGINEERING, INC.
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MANTECA, CA 95336
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JOB NO. 15-065
DATE MARCH 2017
SCALE AS SHOWN
DR. BY SLS
CK. BY JDE
FILE: 15-065\DWG\MP

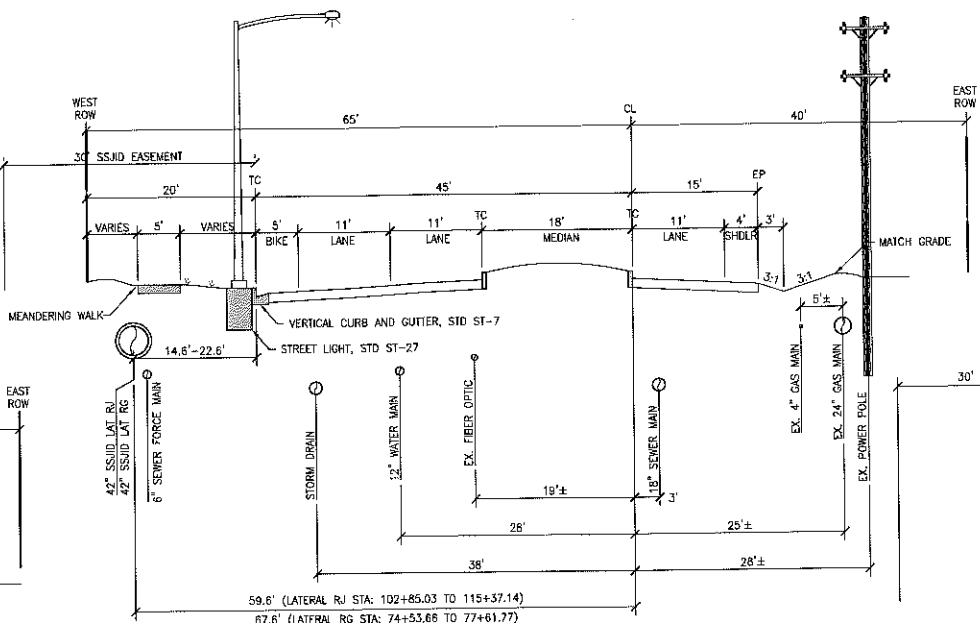
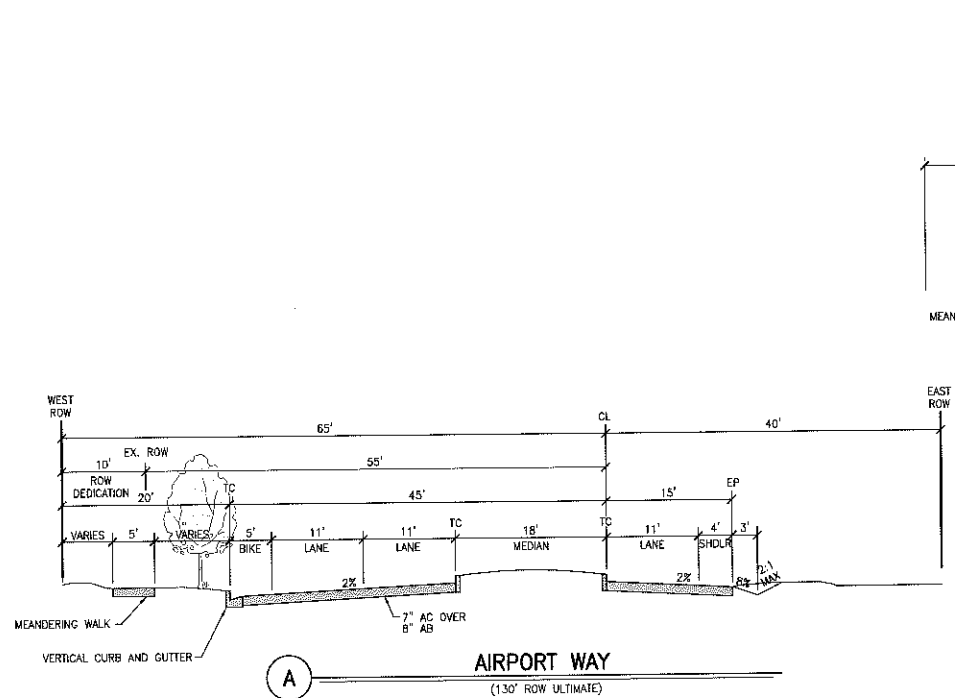


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OF 16

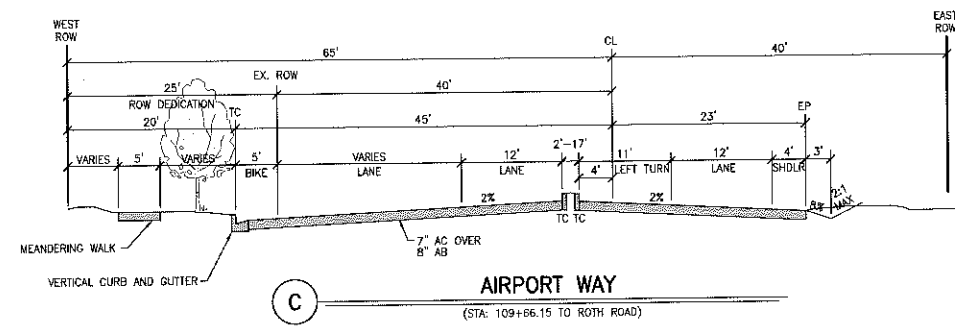
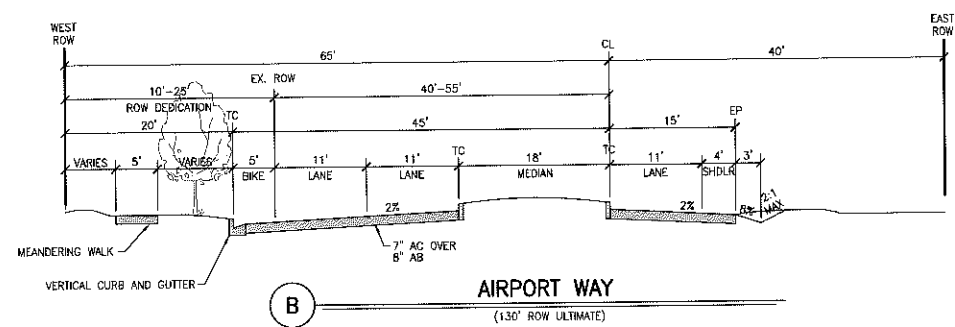
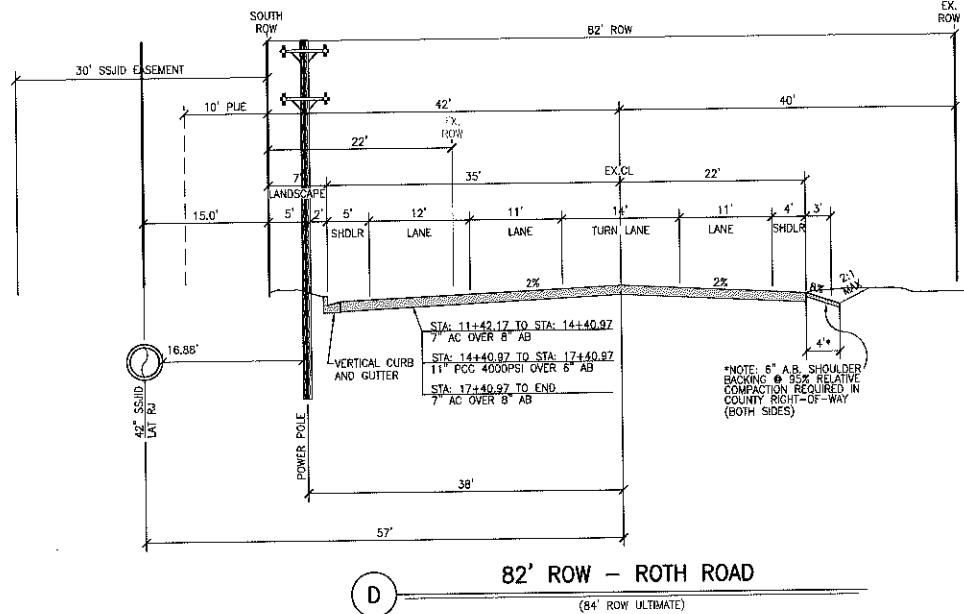
STREET SECTION CHART

STREET NAME	R/W	CURB	WALK	PAVEMENT	T.I.	TRUE R.V.	DESIGN R.V.	ALT. #1	
								A.C.	A.B.
AIRPORT WAY	105'	VERTICAL	5'	VARIES	11.0	5.3	5.3	7.0	8.0
ROTH ROAD	82'	VERTICAL	N/A	56'	11.0	5.3	5.3	7.0	8.0

* 3.0" A.C. SHALL BE LAID IN 2 LIFTS.



AIRPORT WAY - TYPICAL UTILITY LOCATION
AT ROADWAY WIDENING



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STANDARD STREET
SECTIONS & DETAILS

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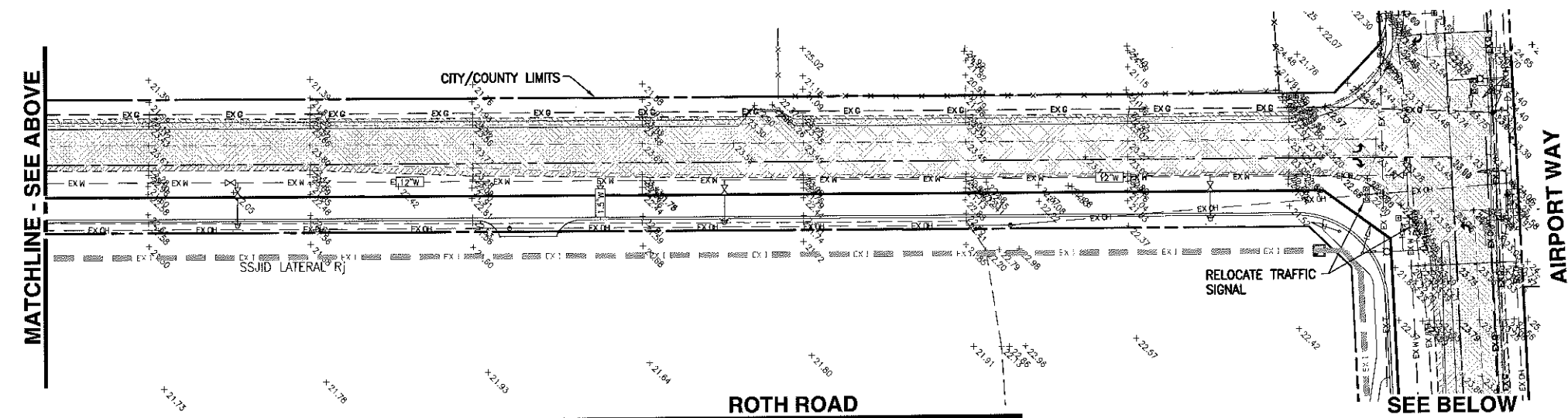
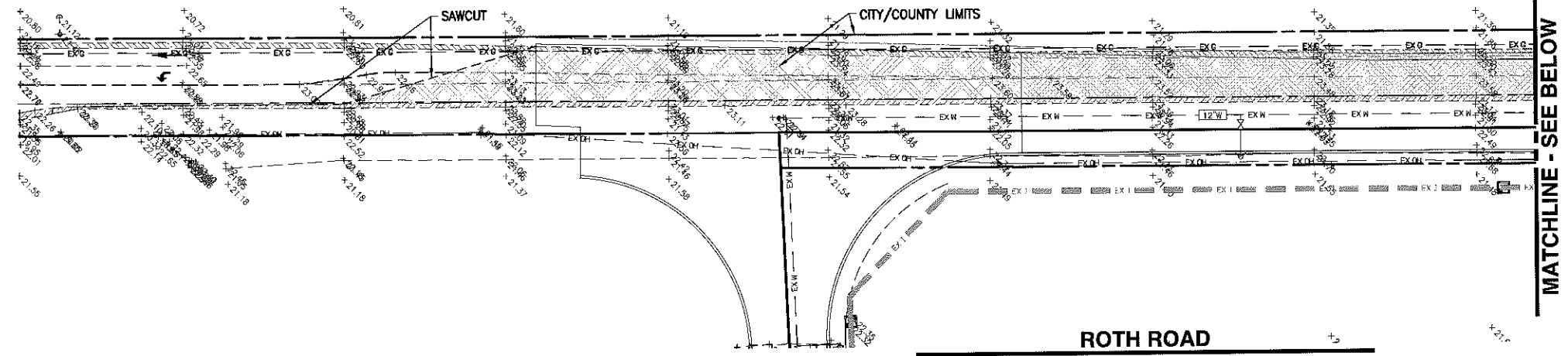
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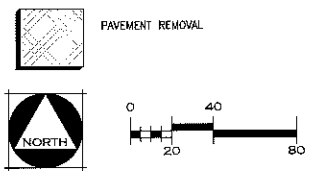
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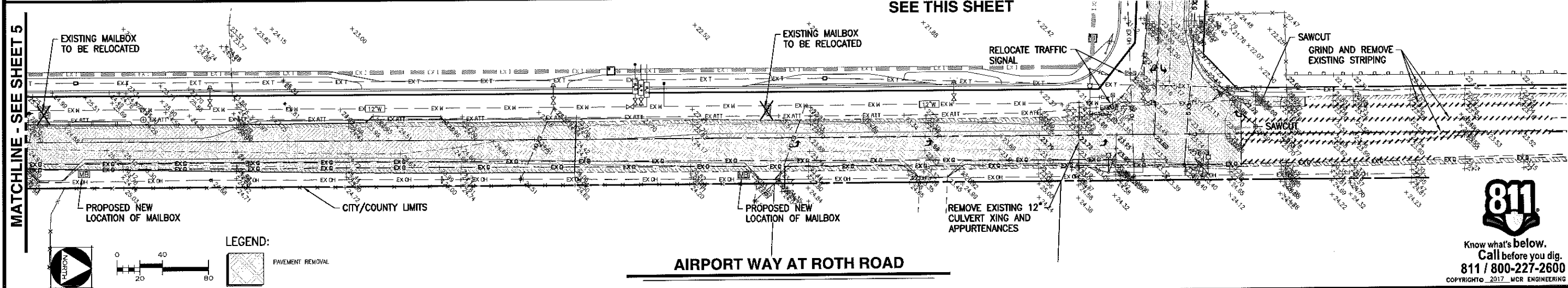
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OF 16



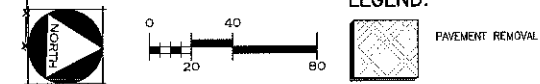
LEGEND:



SEE THIS SHEET



LEGEND:



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TOPOGRAPHIC SURVEY
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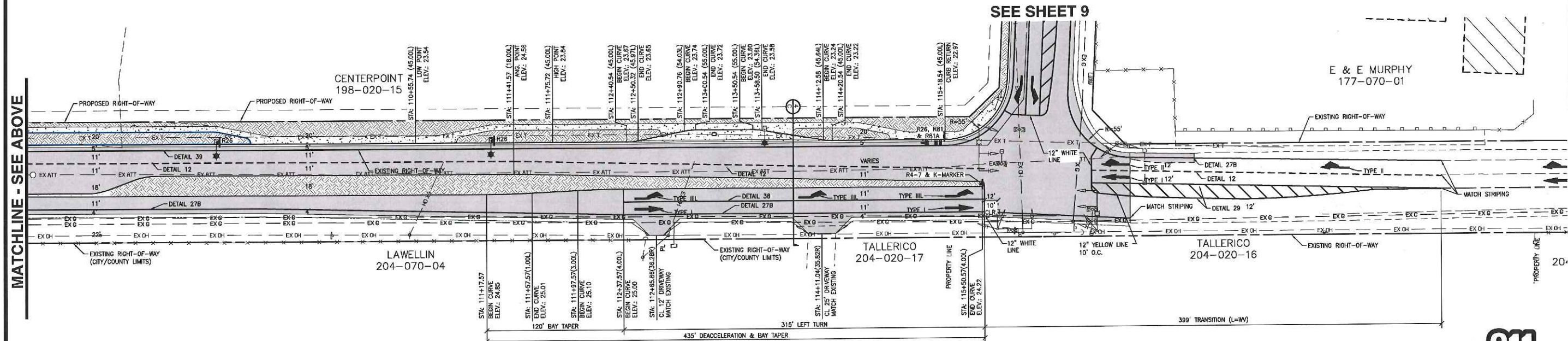
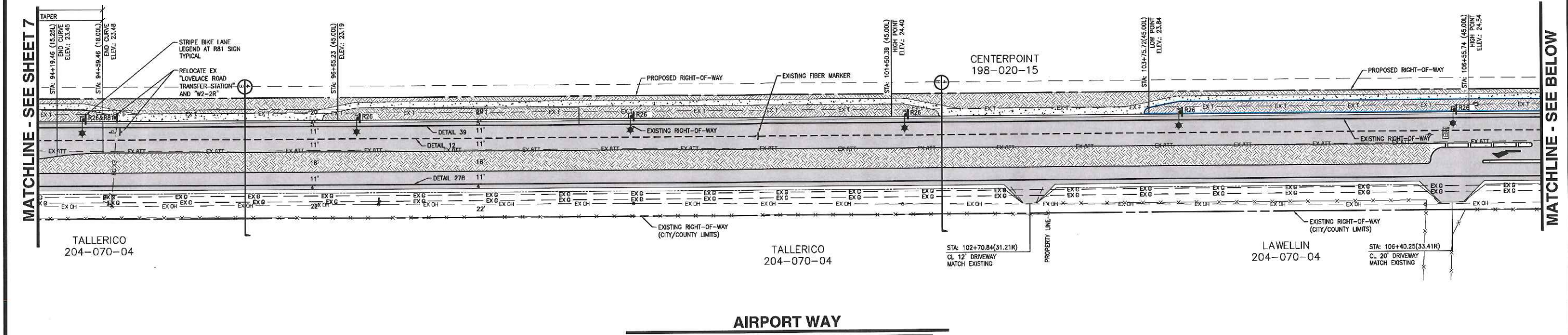
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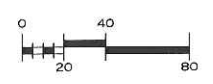
SHEET NUMBER
6
OF 16



PAVEMENT LEGEND:

NEW PAVEMENT SECTION
7" A.C. OVER 8" A.B.

EXISTING PAVEMENT



AIRPORT WAY AT ROTH ROAD

- NOTES:
1. ALL MARKINGS SHALL BE THERMOPLASTIC.
 2. GRIND OFF EXISTING STRIPING THAT IS TO BE REMOVED.
 3. CONTACT SAN JOAQUIN COUNTY FIELD INSPECTION AFTER CAT TRACKING.



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STRIPING PLAN & SIGNAGE PLAN

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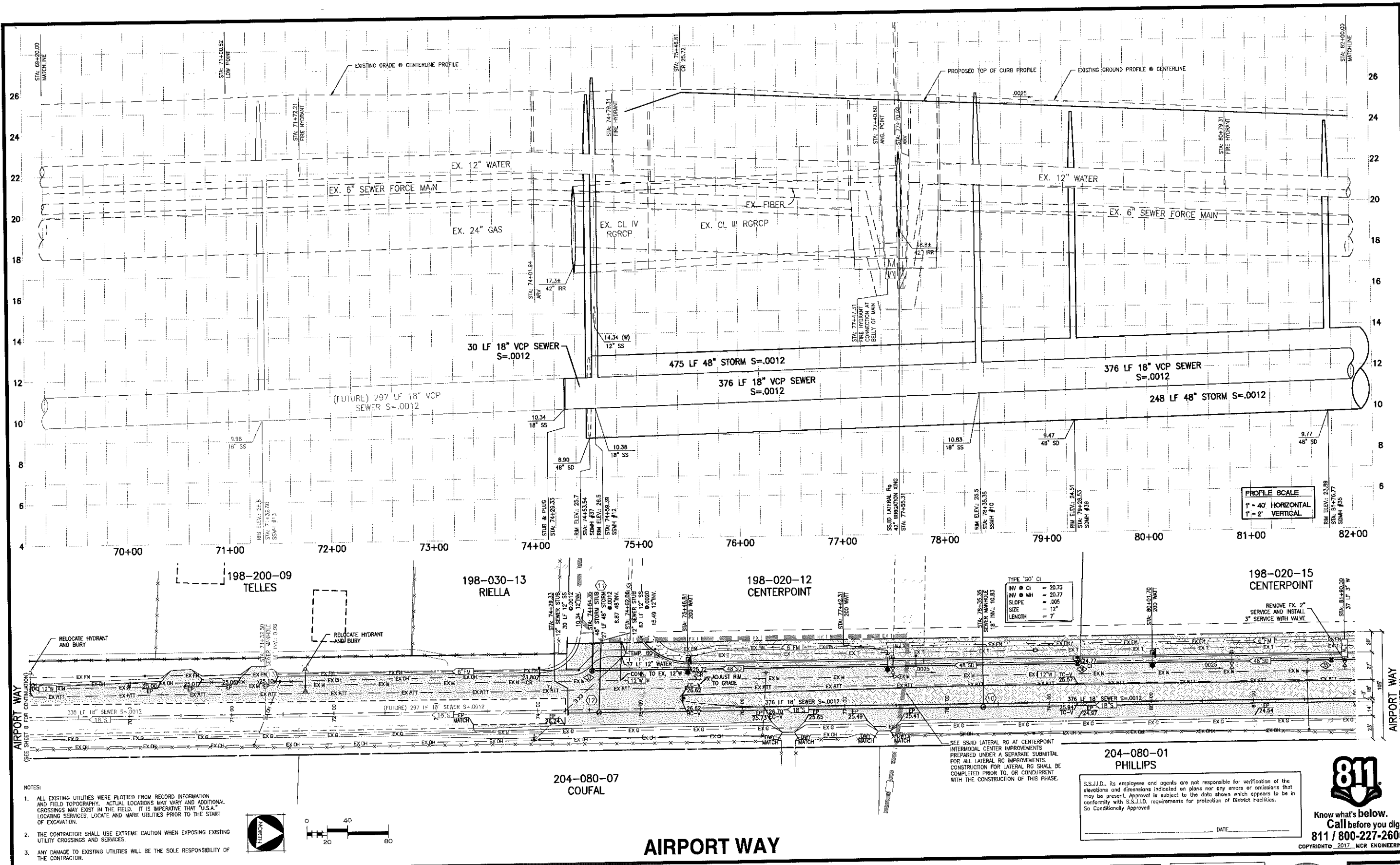
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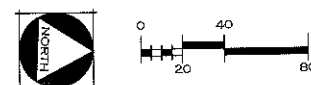
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- NOTES:
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 2. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSINGS AND SERVICES.
 3. ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



AIRPORT WAY

AIRPORT WAY
STA: 69+20 - 82+00

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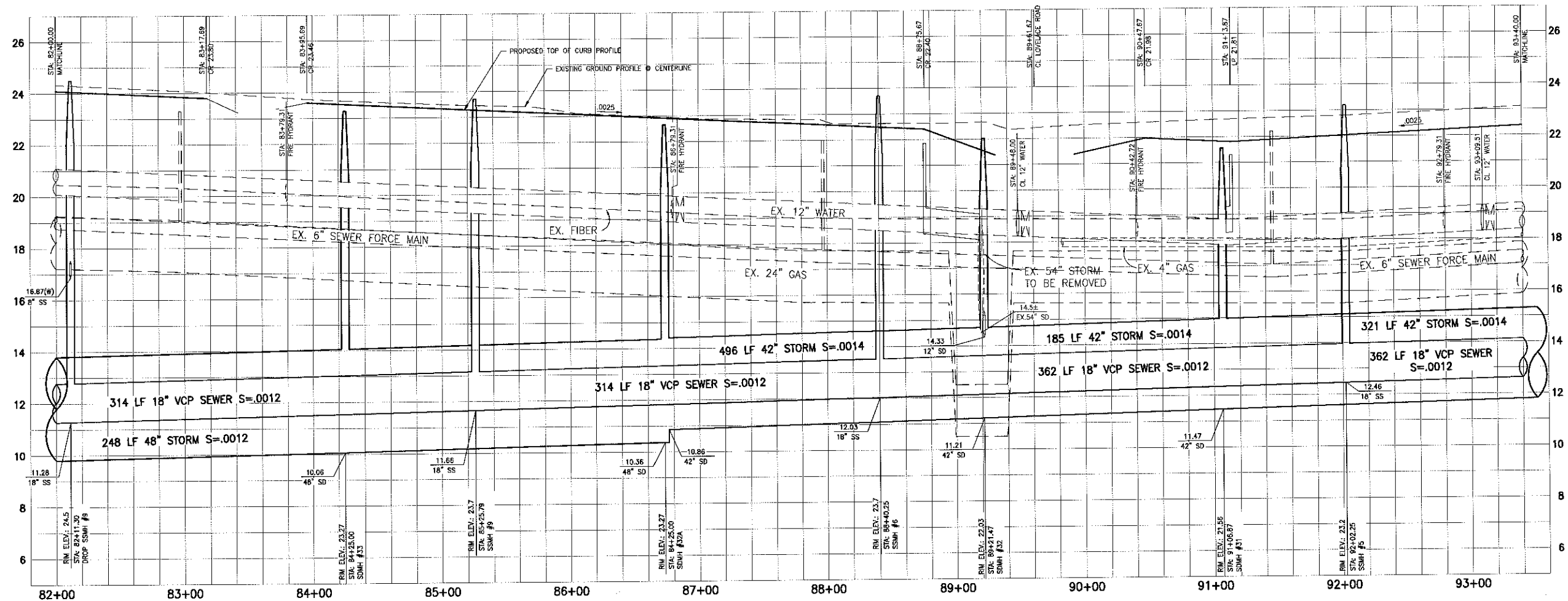
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10
OF 16

**204-080-01
PHILLIPS**

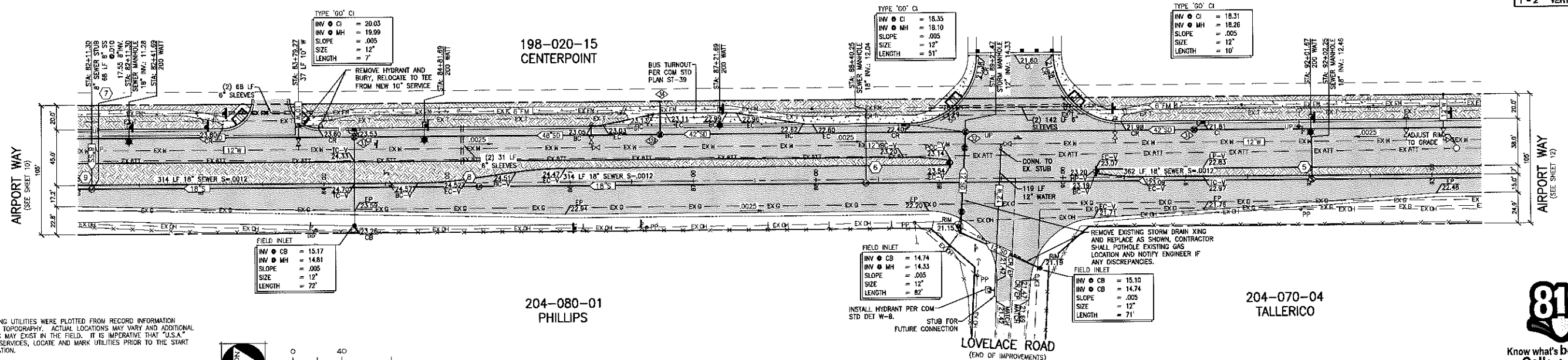
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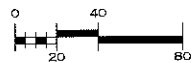
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PROFILE SCALE
1" = 40' HORIZONTAL
1" = 2' VERTICAL



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AIRPORT WAY
STA: 82+00 - 93+40

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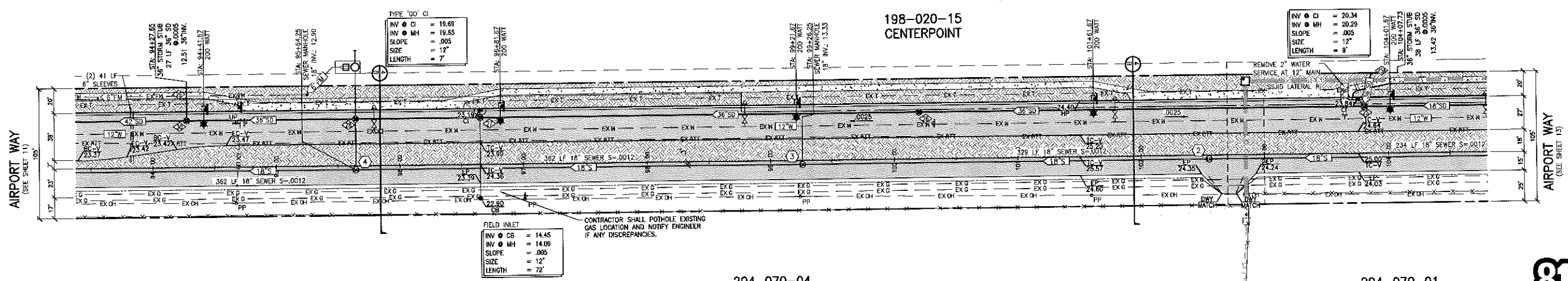
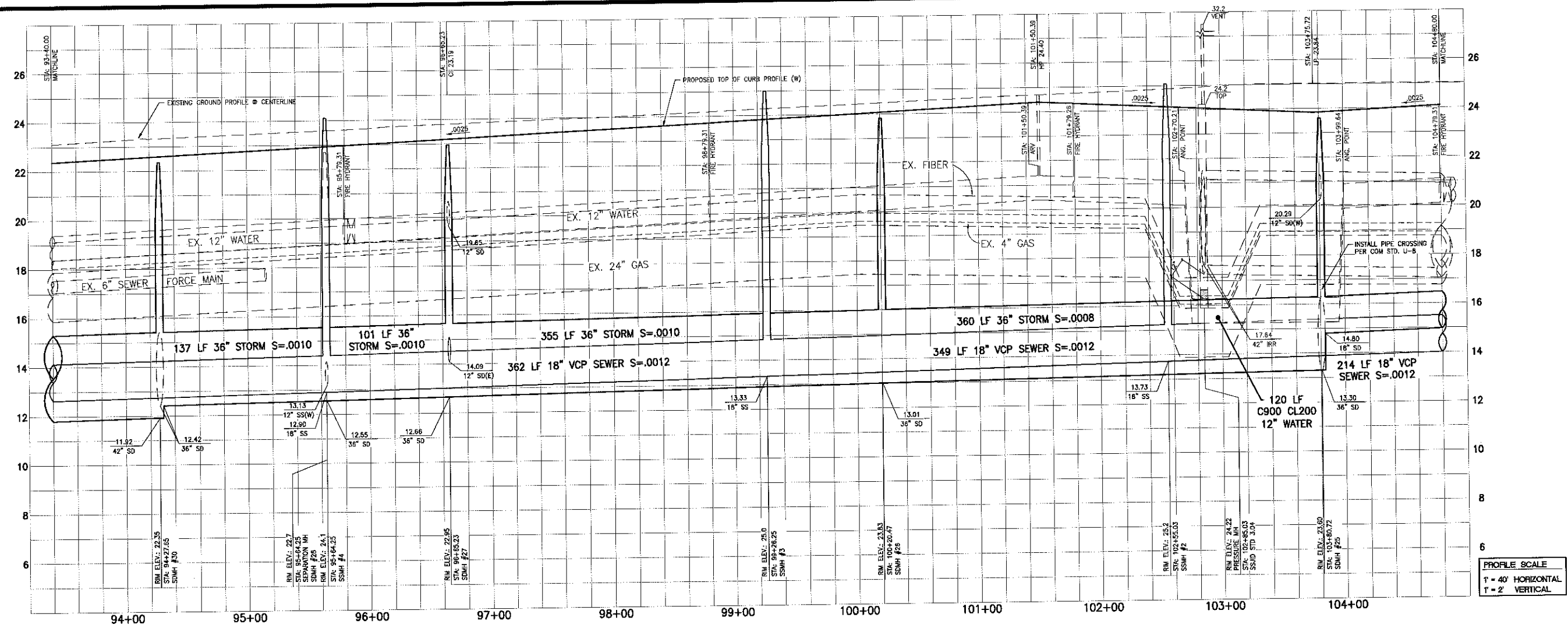
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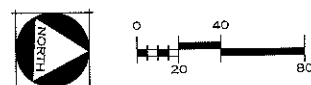


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204-070-04
TALLERICO

AIRPORT WAY

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AIRPORT WAY
STA: 93+40 - 104+80

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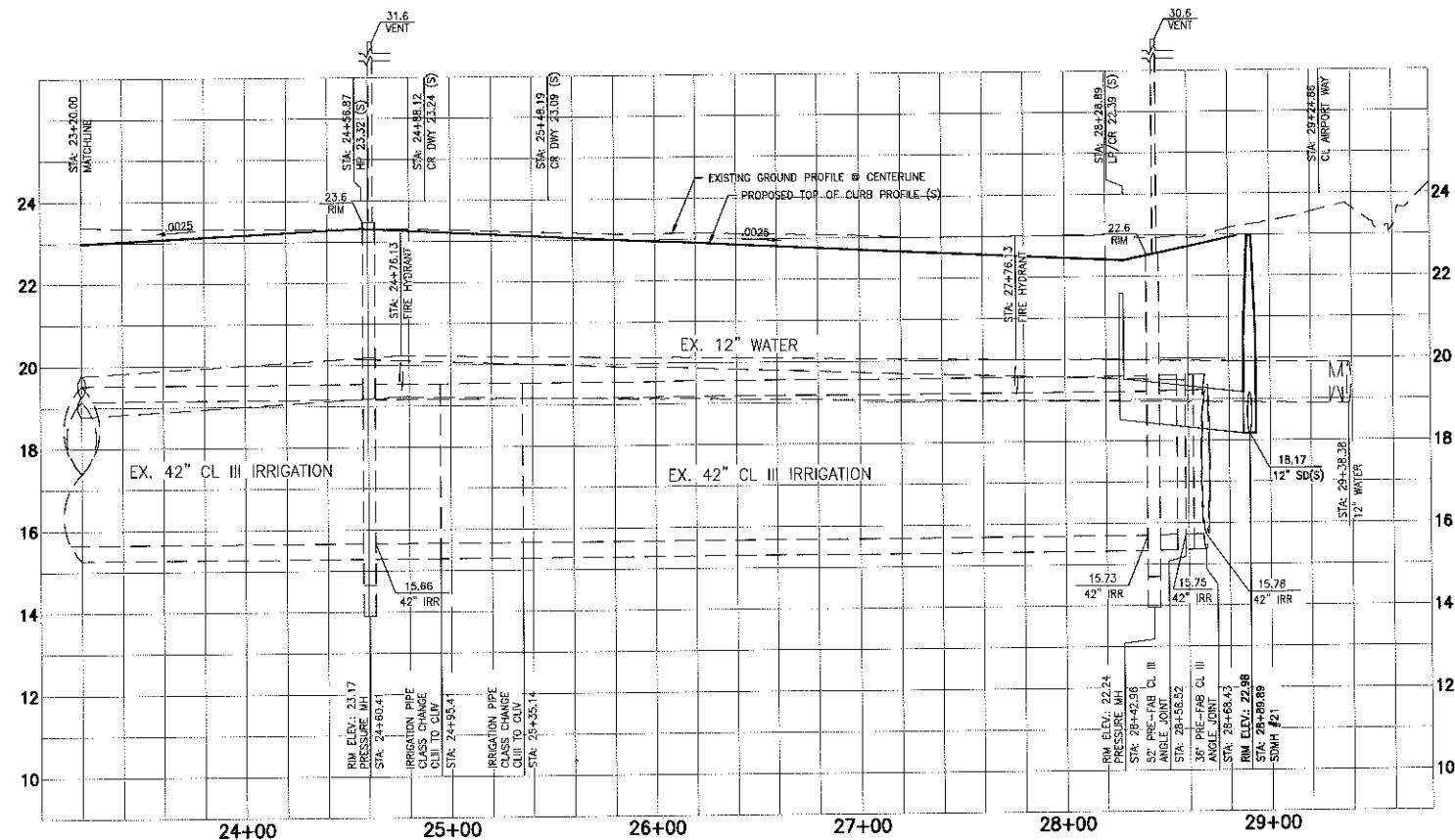
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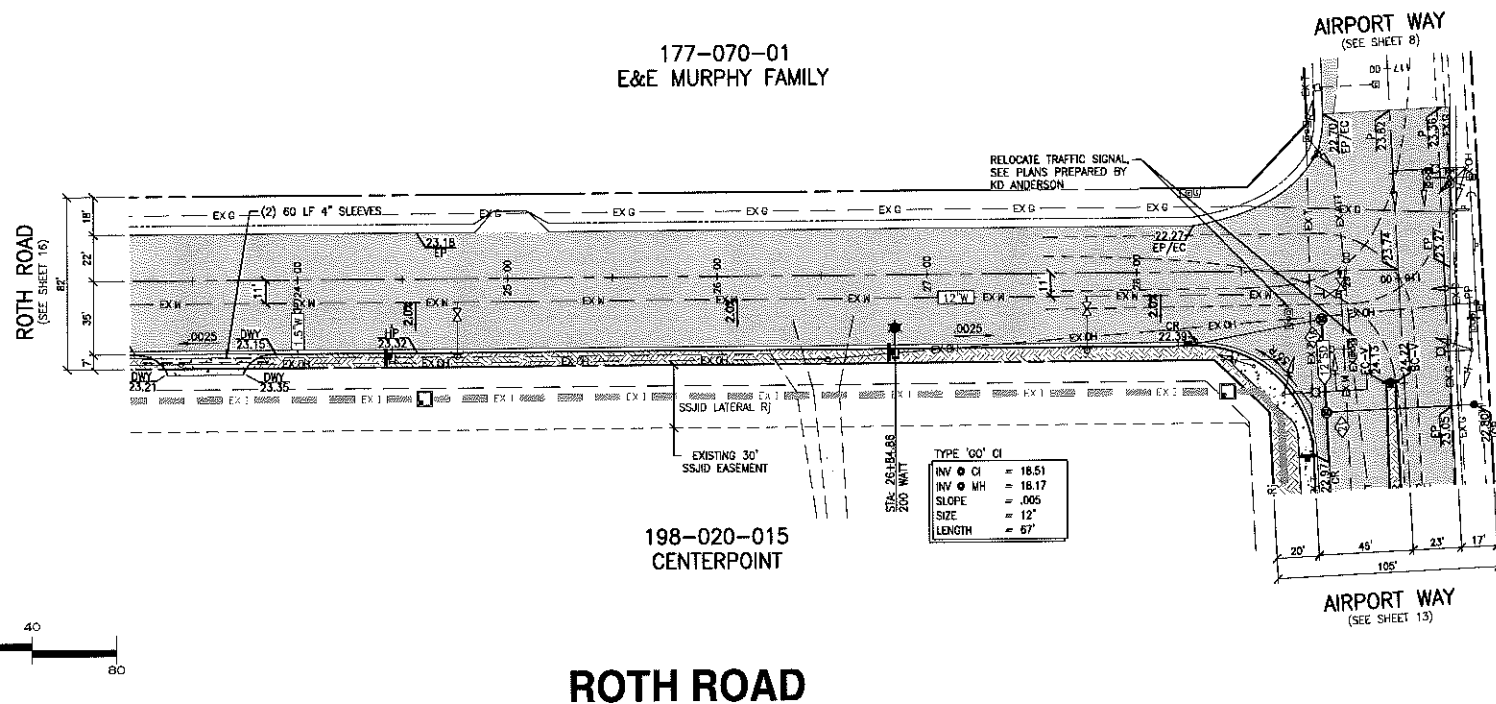
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OF 16

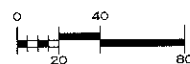


PROFILE SCALE
1" = 40' HORIZONTAL
1" = 2' VERTICAL



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ROTH ROAD
STA: 23+20 - 30+00

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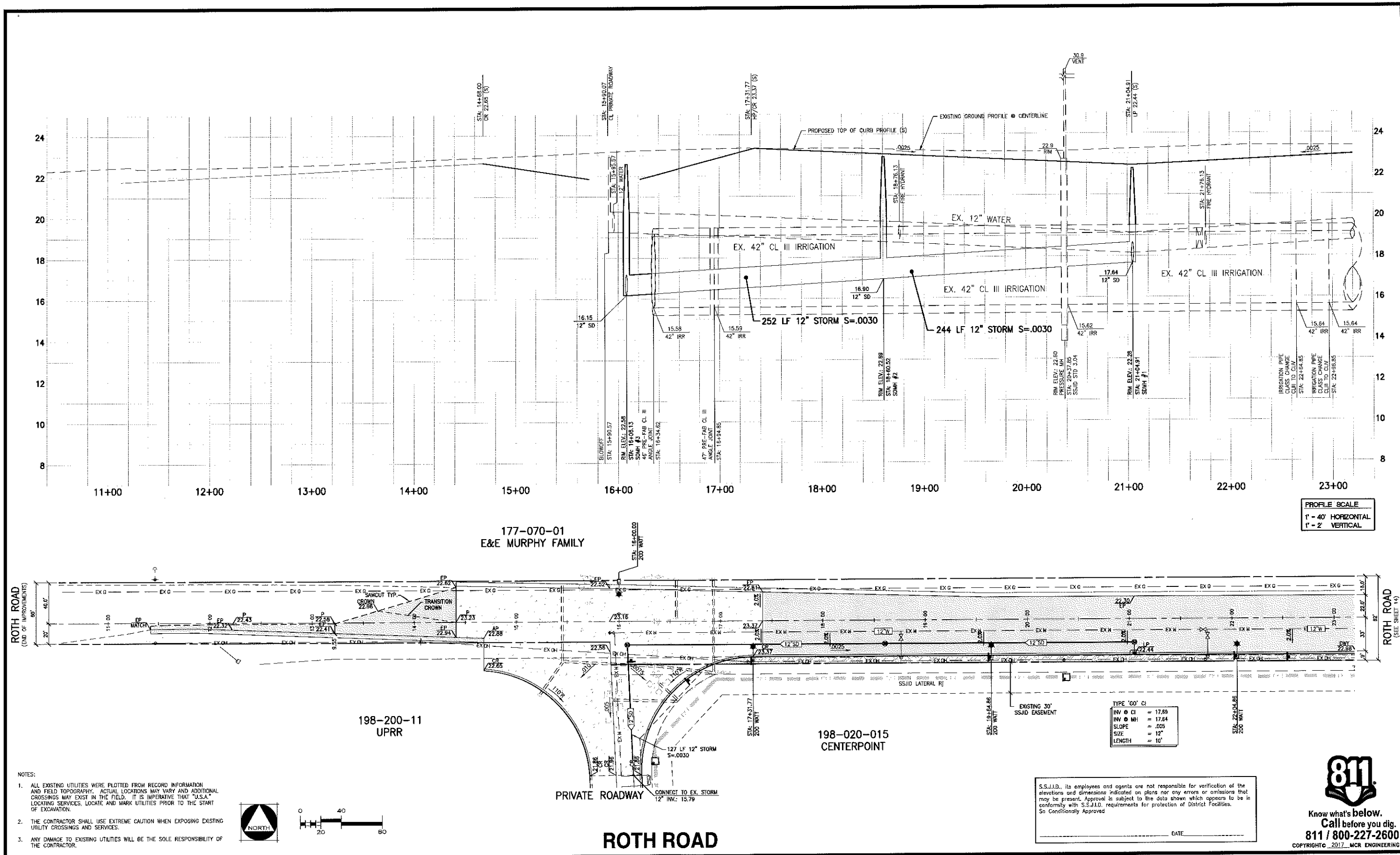


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TYPE 'GO' CI

INV @ CI	= 17.89
INV @ MH	= 17.64
SLOPE	= .005
SIZE	= 12"
LENGTH	= 10'

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ROTH ROAD
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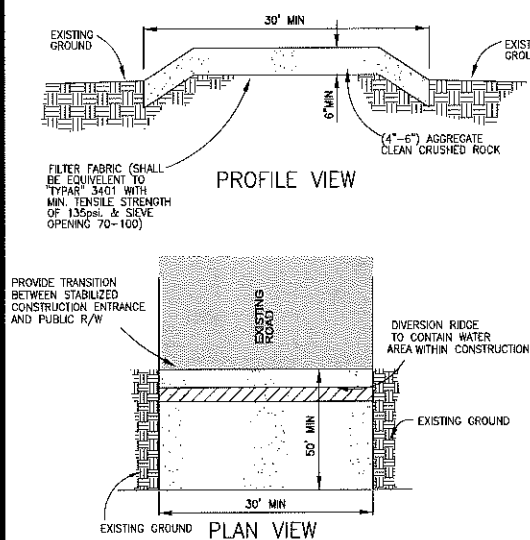
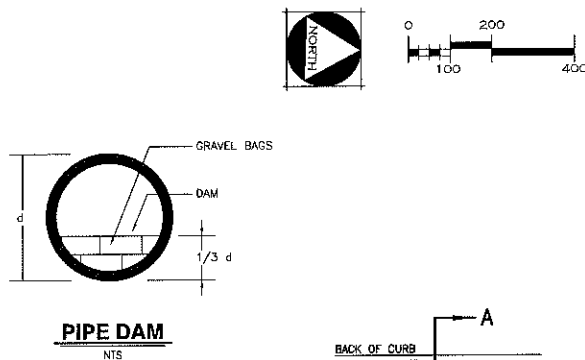
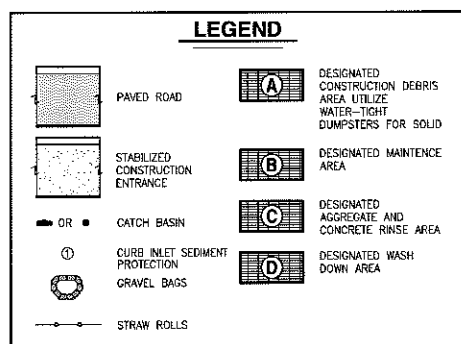
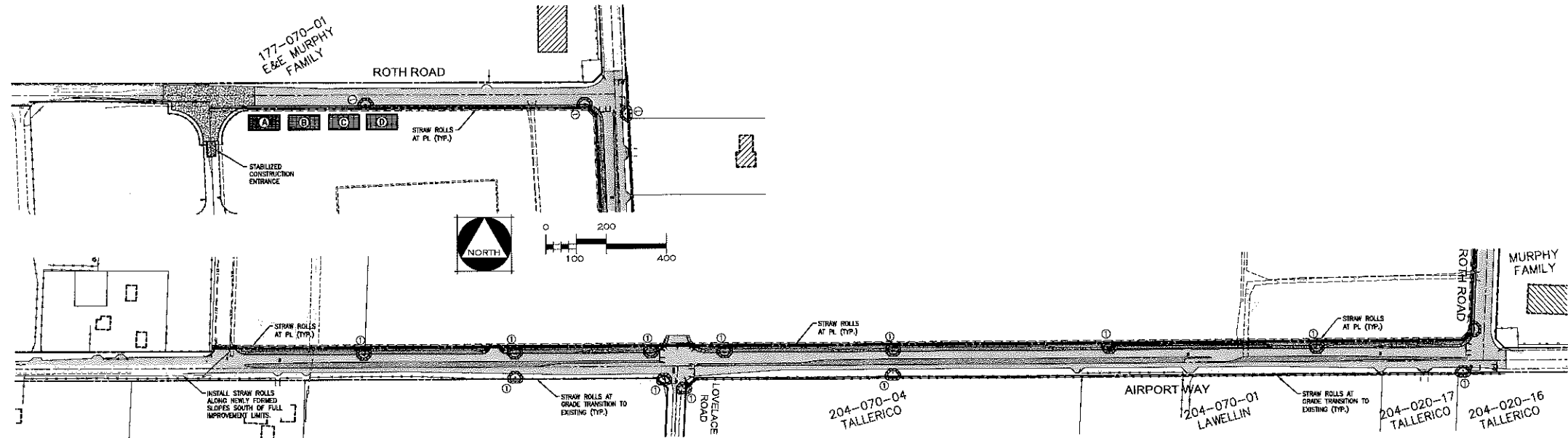
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1242 DUPONT COURT
MANTECA, CA 95336
TEL: (209) 239-6229
FAX: (209) 239-8839

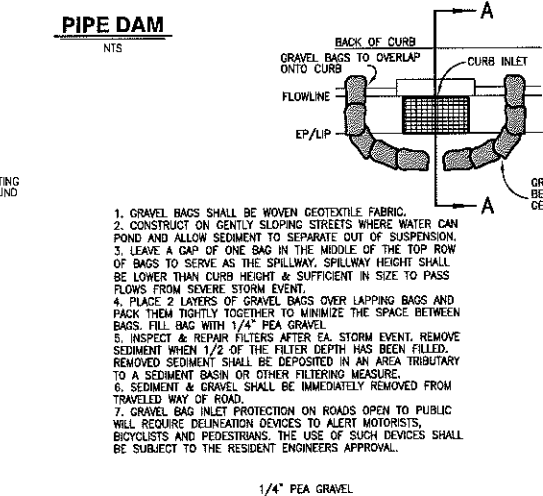
JOB NO.	15-065
DATE	MARCH 2017
SCALE	AS SHOWN
DR. BY	SLS
CK. BY	JDE
FILE:	15-065\DWG\IMP



SHEET NUMBER
15
OF 16



STABILIZED CONSTRUCTION ENTRANCE



STORM DRAIN INLET FILTER BAG DETAIL

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE NOTES

1. THE MATERIAL FOR CONSTRUCTION OF THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE 4 TO 6 INCH STONE.
2. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 6 INCHES.
3. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS, OR 30' MIN.
4. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.
5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.
6. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP, OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SANDBAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
7. CONTRACTOR TO REMOVE AND DISPOSE OF STABILIZED CONSTRUCTION ENTRANCE UPON COMPLETION OF CONSTRUCTION.
8. ENTRANCE TO BE LOCATED AT INGRESS/EGRESS AT ALL PHASES OF CONSTRUCTION.

CONCRETE WASTE MANAGEMENT NOTES

- CONCRETE SLURRY WASTES**
1. PCC AND AC WASTE SHALL NOT BE ALLOWED TO ENTER STORM DRAINS OR WATERCOURSES.
 2. PCC AND AC WASTE SHALL BE COLLECTED AND DISPOSED OF IN A TEMPORARY CONCRETE WASHOUT FACILITY.
 3. A SIGN SHALL BE INSTALLED ADJACENT TO EACH TEMPORARY CONCRETE WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
 4. DO NOT ALLOW SLURRY RESIDUE FROM WET CORING OR SAW-CUTTING AC OR PCC TO ENTER STORM DRAINS OR RECEIVING WATERS.
 5. VACUUM SLURRY RESIDUE AND DISPOSE IN A TEMPORARY PIT AND ALLOW SLURRY TO DRY. DISPOSE OF DRY SLURRY RESIDUE IN ACCORDANCE WITH BMP WM-5.
 6. COLLECT RESIDUE FROM GROOVING AND GRINDING OPERATIONS IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 42-1.02 AND 42-2.02, "CONSTRUCTION."
- ON-SITE TEMPORARY CONCRETE WASHOUT FACILITY, TRANSIT TRUCK WASHOUT PROCEDURES**
1. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 15 M (50 FT.) FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES, UNLESS DETERMINED UNFEASIBLE. BY THE ENGINEER. EACH FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
 2. A SIGN SHALL BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
 3. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED ABOVE GRADE. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
 4. TEMPORARY WASHOUT FACILITIES SHALL HAVE A TEMPORARY PIT OR BERMED AREAS OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND WASTE CONCRETE MATERIALS GENERATED DURING WASHOUT PROCEDURES.
 5. PERFORM WASHOUT OF CONCRETE TRUCKS IN DESIGNATED AREAS ONLY.
 6. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHALL BE BROKEN UP, REMOVED, AND DISPOSED. DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.
- TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE)**
1. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE) SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 3 M (10 FEET), BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. THE LENGTH AND WIDTH OF A FACILITY MAY BE INCREASED, AT THE CONTRACTOR'S EXPENSE, UPON APPROVAL OF THE ENGINEER.
 2. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 60 ML POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
- REMOVAL OF TEMPORARY CONCRETE WASHOUT FACILITIES**
1. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, AS DETERMINED BY THE ENGINEER, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BECOME THE PROPERTY OF THE CONTRACTOR, SHALL BE REMOVED FROM THE SITE OF THE WORK, AND SHALL BE DISPOSED OF.
 2. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED AND REPAIRED IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS.
 3. THE CONTRACTOR'S WASTE POLLUTION CONTROL MANAGER (WPCM) SHALL MONITOR ON SITE CONCRETE WASTE STORAGE AND DISPOSAL PROCEDURES AT LEAST WEEKLY.
 4. THE WPCM SHALL MONITOR CONCRETE WORKING TASKS, SUCH AS SAW CUTTING, CORING, GRINDING AND GROOVING AT LEAST WEEKLY TO ENSURE PROPER METHODS ARE EMPLOYED.
 5. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4" FOR ABOVE GRADE FACILITIES AND 12" FOR BELOW GRADE FACILITIES. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION. HARDENED CONCRETE MATERIALS SHALL BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH THE PROVISIONS IN SECTION 15-3.02, "REMOVAL METHODS," OF THE STANDARD SPECIFICATIONS.
 6. EXISTING FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.

GENERAL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE EFFECTIVE FOR THE DURATION OF THE CONSTRUCTION ACTIVITY.
2. NO STORM RUNOFF WATER SHALL BE ALLOWED TO DRAIN DIRECTLY INTO THE EXISTING UNDERGROUND STORM SYSTEM BEFORE THE ON-SITE STORM DRAIN SYSTEM, LANDSCAPE, AND PAVING IS INSTALLED AND COMPLETED.
3. AS SOON AS IS PRACTICAL AFTER THE NEW ON-SITE STORM DRAIN SYSTEM IS INSTALLED, THE CATCH BASINS SHALL BE INSTALLED AND GRAVEL BAGS AND SCREENS SHALL BE PLACED AROUND THE CATCH BASINS, AS SHOWN. THE CONTRACTOR SHALL HAVE AN OPTION TO INSTALL PREFABRICATED STEEL FRAMES WITH FILTER SCREEN OF FILTER FABRIC ATTACHED TO THE FRONT OF THE DRAIN INLET AND EXTEND 12 INCHES (12") ON EACH SIDE OF THE DRAIN INLET OPENING. FRAME SHALL BE APPROVED BY THE CITY ENGINEER AND SHALL FIT THE OPENING WITH LESS THAN ONE-QUARTER INCH (1/4") GAP AT ANY ONE POINT.
4. THE NAME, ADDRESS AND 24-HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE PROVIDED.
5. A MINIMUM OF 50' OF DRAIN ROCK, 1-1/2" DIAMETER OR LARGER, AT A MINIMUM DEPTH OF 6", SHALL BE INSTALLED AT EACH DRIVEWAY ENTRANCE TO THE SITE. THIS DOES NOT NEED TO BE DONE AT DRIVEWAYS, WHICH WILL BE CLOSED BY IMMOVABLE BARRICADES DURING CONSTRUCTION.
6. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS, BUT ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE CITY ENGINEER.
7. DURING THE RAINY SEASON ALL SIDEWALK AND PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF FROM ENTERING ANY STORM DRAINAGE SYSTEM.
8. THE EROSION AND SEDIMENTATION CONTROL PLAN COVERS ONLY THE FIRST WINTER DURING WHICH CONSTRUCTION IS TO TAKE PLACE. PLANS ARE TO BE RESUBMITTED PRIOR TO SEPTEMBER 1 OF EACH SUBSEQUENT YEAR UNTIL THE CITY ACCEPTS THE SITE IMPROVEMENTS.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT AND REPAIR ALL EROSION CONTROL FACILITIES AT THE END OF EACH WORK DAY DURING THE RAINY SEASON.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN OUT SEDIMENT BASINS WHENEVER THE LEVEL OF SEDIMENT REACHES THE SEDIMENT CLEAN OUT LEVEL INDICATED ON THE PLANS.
11. IT IS THE RESPONSIBILITIES OF THE CONTRACTOR TO PROTECT TEMPORARY BORROW AREAS AND/OR STOCKPILES WITH APPROPRIATE EROSION CONTROL MEASURES SATISFACTORY TO THE CITY ENGINEER.
12. THE CLEANING OF PAVED STREETS, DURING AND AT THE COMPLETION OF CONSTRUCTION, SHALL BE PERFORMED WITH MECHANICAL SWEEPERS. THE USE OF WATER TRUCKS TO "WASH DOWN" THE STREET IS PROHIBITED.
13. SEAL OR SKIRT BETWEEN TRAILER & GRADING TO PREVENT EXPOSURE TO DRAIN.
14. THE FOLLOWING PLANS ARE ACCURATE FOR EROSION CONTROL PURPOSES ONLY.
15. THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO COMPLY WITH THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD. FIELD CONDITIONS MAY NECESSITATE MODIFICATIONS TO THIS PLAN.
16. NO ON-SITE FUELING SHALL TAKE PLACE.



Know what's below.
Call before you dig.
811 / 800-227-2600
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EROSION CONTROL PLAN

CENTERPOINT INTERMODAL CENTER
OFF-SITE IMPROVEMENTS
MANTECA, CALIFORNIA

REVISIONS			
NO.	DESCRIPTIONS	DATE	APPROVED

MCR ENGINEERING
MCR ENGINEERING, INC.
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MANTECA, CA 95336
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www.mcreng.com

JOB NO. 15-065
DATE MARCH 2017
SCALE AS SHOWN
DR. BY SLS
CK. BY JDE
FILE: 15-065\DWG\IMP



SHEET NUMBER
16
OF 16

TRAFFIC SIGNALS AND SAFETY LIGHTING
AT
AIRPORT WAY/LOVELACE ROAD (NEW)
AIRPORT WAY/ROTH ROAD (MODIFICATION)
CITY OF MANTECA

PROJECT NOTES

1. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND SHALL PERFORM ALL LABOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD PLANS.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND FACILITIES, PUBLIC OR PRIVATE, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND FACILITIES DAMAGED BY HIS OPERATIONS. QUANTITY AND EXACT LOCATIONS OF ALL UTILITIES TO BE DETERMINED BY CONTRACTOR 48 HOURS BEFORE BEGINNING WORK. PHONE USA (800) 227-2600 PRIOR TO DIGGING.
3. THESE PLANS ACCURATE FOR ELECTRICAL WORK ONLY.
4. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL. TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE CA MUTCD.
5. ALL PULL BOXES ARE TO BE NO. 5 UNLESS OTHERWISE NOTED ON PLAN.
6. POSITIONING OF SIGNAL STANDARDS, PULL BOXES, AND DETECTORS SHALL BE VERIFIED BY CITY OF MANTECA PRIOR TO INSTALLATION.
7. LOOP DETECTORS SHALL BE CENTERED IN EFFECTIVE LANE WIDTHS UNLESS OTHERWISE NOTED ON PLAN OR AS DIRECTED AND APPROVED BY THE ENGINEER.
8. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT AND MATERIALS NECESSARY FOR THE SIGNAL TO OPERATE AS SHOWN IN THE PHASE DIAGRAM.
9. SIDEWALKS REMOVED FOR INSTALLATION OF SIGNAL FOUNDATION AND PULL BOXES SHALL BE REMOVED TO THE NEAREST SCORE MARK. SCORE MARK SHALL BE SAWCUT PRIOR TO REMOVAL.
10. CONTRACTOR SHALL CONTACT PG&E TO CONFIRM POWER SUPPLY LOCATION AND VOLTAGE PRIOR TO START OF WORK.
11. ALL SALVAGED MATERIAL SHALL BE DELIVERED TO THE BELOW ADDRESS UNLESS NOTED OTHERWISE.

CITY OF MANTECA
CORPORATION YARD
210 E. WETMORE STREET
MANTECA, CA 95337

12. CONTRACTOR SHALL NOTIFY THE CITY'S PUBLIC WORKS DEPARTMENT (ENGINEERING DIVISION) TWO WORKING DAYS BEFORE START OF WORK.
13. 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. AN APPROVED SET OF PLANS SHALL BE ON THE JOB SITE DURING ANY CONSTRUCTION.
14. 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.
15. 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 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.
16. THE CONTRACTOR SHALL MAKE AN ON-SITE INSPECTION PRIOR TO PROVIDING ANY PROPOSALS TO DETERMINE ANY AND ALL ITEMS NOT SHOWN AS BID ITEMS ON THE PROPOSAL SHEETS, BUT WHICH MAY BE NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
17. KD ANDERSON TRANSPORTATION ENGINEERS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR ANY UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS SHALL BE IN WRITING AND MUST BE APPROVED BY THE CITY ENGINEER.
18. THESE PLANS ACCOMPANIED BY SEPARATE SET OF SPECIAL PROVISIONS.
19. ALL VEHICLE SECTION HOUSINGS, VISORS AND BACKPLATES SHALL BE METAL.
20. ALL VEHICLE AND PEDESTRIAN INDICATIONS SHALL BE L.E.D. DISPLAY.

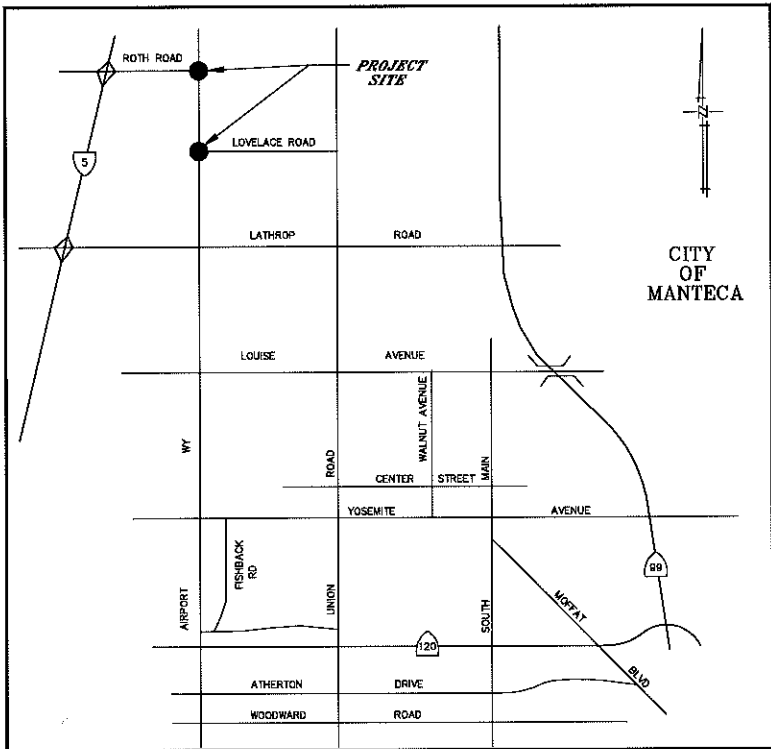
PREPARED FOR: MCR ENGINEERING, INC.

PREPARED BY: K.D.ANDERSON & ASSOCIATES INC.
3853 TAYLOR ROAD, SUITE G
LOOMIS, CALIFORNIA 95650

SHEET INDEX

- 1 - COVER SHEET/GENERAL NOTES
- 2 - TRAFFIC SIGNAL ELECTRICAL PLAN
AIRPORT WY/LOVELACE RD
- 3 - TRAFFIC SIGNAL ELECTRICAL PLAN
AIRPORT WY/ROTH RD
- 4 - TRAFFIC SIGNAL ELECTRICAL PLAN
AIRPORT WY/ROTH RD (CON'T)
- 5 - TRAFFIC SIGNAL DETAILS

ALL WORKMANSHIP AND MATERIALS SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2010.



LOCATION MAP
N.T.S.

LEGEND

- | | | |
|-----|--------|--------------------------|
| --- | T--- | EX. TELEPHONE |
| --- | G--- | EX. GAS LINE |
| --- | W--- | EX. WATER LINE |
| --- | SS--- | EX. SEWER LINE |
| --- | D--- | EX. DRAIN LINE |
| --- | OHE--- | EX. OVERHEAD POWER LINES |
| o | | JOINT POLE |
| --- | | PAVEMENT STRIPING |
| C | | EX. MANHOLE |

NO.	REVISIONS	BY	DATE

APPROVED BY:

CITY OF MANTECA PUBLIC WORKS

DESIGN BY: M.B.
DRAWN BY: B.T.
CHECKED BY: K.D.A.
SCALE: AS SHOWN
DATE: 12/14/16
PROJ NO.: AIRPORT-LOVELACE-ROTH

REGISTERED ENGINEER
12/14/16
DATE



K.D. Anderson
Transportation Engineers
3853 Taylor Road, Suite G
Loomis, California 95650
(916)660-1555

TRAFFIC SIGNAL AND SAFETY LIGHTING
COVER SHEET/GENERAL NOTES

CITY OF MANTECA

CALIFORNIA

TS-1
OF
5

CONDUIT & CONDUCTOR SCHEDULE											
CIRCUIT	RUNS									CIRCUIT	CIRCUIT
	1	2	3	4	5	6	7	8	9		
#1 SIGNALS	3	3									
#2 SIGNALS	6	6	3	3	3	3					
#3 SIGNALS	3	3	3	3	3	3					
#4 SIGNALS	6	6	3	3	3	3	3	3	3		
#5 SIGNALS	3	3	3	3	3	3					
#6 SIGNALS	6	6	3	3	3	3	3	3	3		
#7 SIGNALS	3	3	3	3	3	3	3	3	3		
#8 SIGNALS	3	3	3	3	3	3	3	3	3		
#2 PED	4	4	2	2	2	2					
#4 PED	2	2	2	2	2	2					
#6 PED	2	2	2	2	2	2					
#8 PED	2	2	2	2	2	2					
#2 PPB	1	1	1	1	1	1	1	1	1		
#4 PPB	1	1	1	1	1	1					
#6 PPB	1	1	1	1	1	1					
#8 PPB	1	1	1	1	1	1					
PPB COMMON	2	2	1	1	1	1	1	1	1		
PEU	3										
SPARES	6	6	3	3	3	3	3	3	3		
TOTAL	52	55	34	34	30	25	16	19	11		
#10 F. BEACON	6	3	3	3	3	3					
LUMINAIRE	4	2	2	2	2	2					
#6 SIGNAL COMMON	2	1	1	1	1	1	1	1	1		
#1 DETECTORS	3	3	3	3	3						
#2 DETECTORS	4	4									
#3 DETECTORS	2	2	2	2	2	2					
#4 DETECTORS	2	2	2								
#5 DETECTORS	3	3									
#6 DETECTORS	6	6	6	6	6						
#7 DETECTORS	2	2	2								
#8 DETECTORS	2	2	2	2	2	2					
TOTAL	24	24	17	13	13	4	4	7	0		
EVP CABLE	4	4	2	2	1	1					
ANTENNA CABLE	1	1									
CONDUIT SIZE	2-3"	2-3"	2-3"	2-3"	3"	3"	3"	3"	3"		
PERCENT FILL	21%	23%	15%	14%	24%	16%	11%	16%	7%		

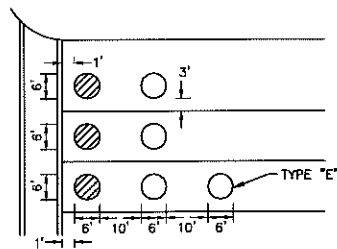
LEGEND

EXISTING EQUIPMENT

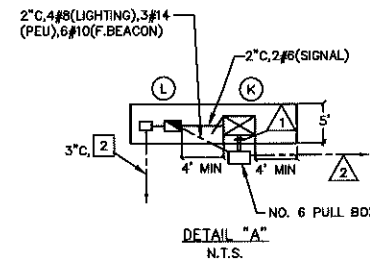
NEW EQUIPMENT

OPTICAL EVP DETECTOR

NOTE: SEE CALTRANS STANDARD PLANS ES-1A AND ES-1B FOR EXPLANATION OF OTHER SYMBOLS.



TYPICAL DETECTOR LOOP LAYOUT
N.T.S.



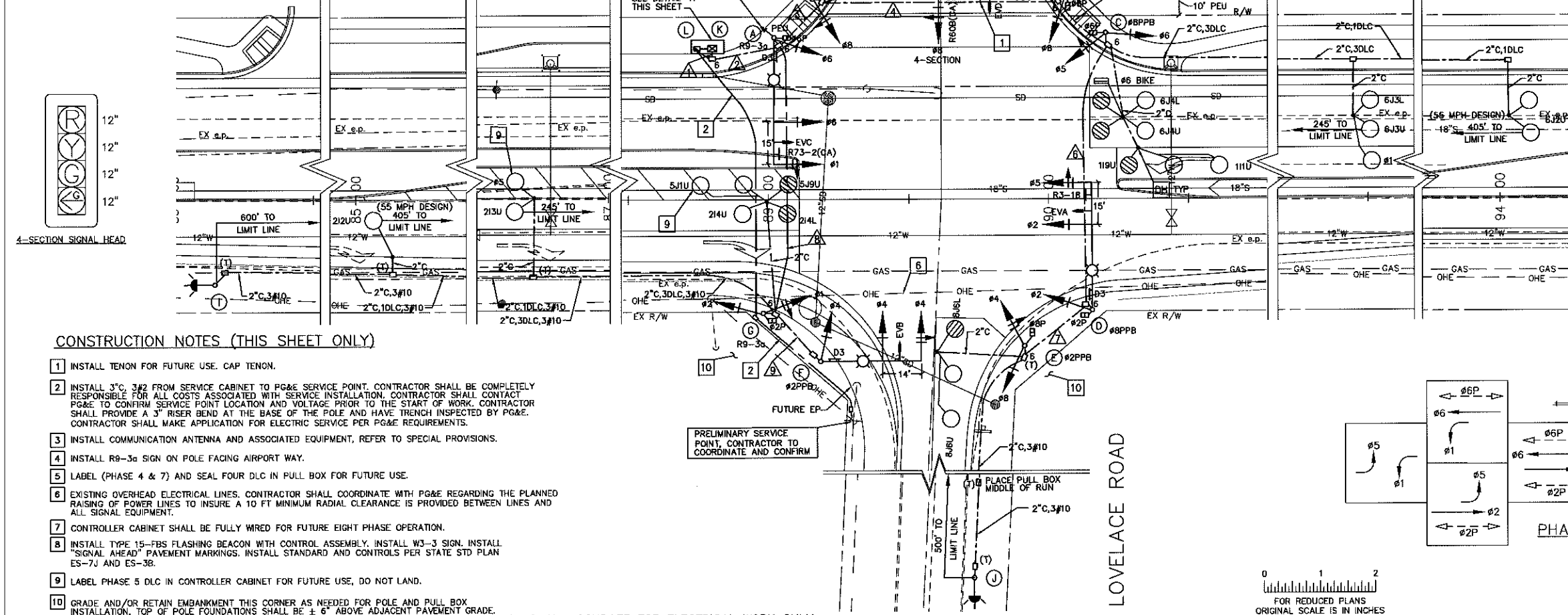
TRAFFIC LOGGING SYSTEM ASSIGNMENTS

DETECTOR	DIRECTION	TLS CHANNEL
212U	NB	1
6J2U	SB	2
8J6U	WB	3

EQUIPMENT SCHEDULE											
LOCATION	STANDARD TYPE	MAST SIG	ARM LUM	#	VEH. SIGNALS	SEC.	MTG.	PED SIGNAL MTG	PPB	LUMINAIRE WATTAGE	NOTES
(A)	26-4-100	45'	15'	1	1W3L 1W3L 1W3L	A 12" 12"	2-MAS SV-1-T	SP-1-T		RDWY 1 LED	INSTALL D3 "Lovelace Rd" SIGN, R73-2(CA) SIGN AND OPTICAL DETECTOR ON MA. INSTALL PEU ON TOP OF POLE. [3] [4]
(B)	26-4-100	45'	15'	8	1W3L 1W3L 1W3L	A 12" 12"	MAS-4B SV-1-T	SP-1-T	6	LT	RDWY 1 LED. INSTALL D3 "Lovelace Rd" SIGN, R3-18 SIGN AND OPTICAL DETECTOR ON MA. [1]
(C)	1A			5	1W3L 1W3L 1W3L	A 12" 12"	TV-2-T	SP-1-T	8	RT	
(D)	26-4-100	45'	15'	5	1W3L 1W3L 1W3L	A 12" 12"	2-MAS SV-1-T	SP-1-T	8	LT	RDWY 1 LED. INSTALL D3 "Lovelace Rd" SIGN, R3-18 SIGN AND OPTICAL DETECTOR ON MA.
(E)	1A			4	1W3L 1W3L 1W3L	A 12" 12"	TV-2-T	SP-1-T	2	RT	
(F)	24-4-100	35'	15'	4	1W3L 1W3L 1W3L	A 12" 12"	2-MAS SV-1-T		2	LT	RDWY 1 LED. INSTALL D3 "Airport Wy" SIGN AND OPTICAL DETECTOR ON MA.
(G)	1A			1	1W3L 1W3L 1W3L	A 12" 12"	TV-2-T	SP-1-T			
(H)	1A			4	1W3L 1W3L 1W3L	A 12" 12"	TV-2-T		6	RT	
(I) (J)	15-FBS										ADVANCE FLASHING BEACON, DUAL FLASHERS. [8]
(K)											FURNISH AND INSTALL TYPE 332 CABINET AND PAD WITH GROUNDING ROD, 170E CONTROLLER AND ASSOCIATED EQUIPMENT. REFER TO DETAIL "A" THIS SHEET. FRONT DOOR SHALL OPEN TO THE SOUTH. [7]
(L)											FURNISH AND INSTALL TYPE III-AF SERVICE ENCLOSURE AND ASSOCIATED EQUIPMENT. REFER TO STD PLAN ES-2D FOR WIRING DIAGRAM. PROVIDE ITEMS 1-8,13,15-17,20,22.

- A: INDICATES 12" ARROW DISPLAY.
- ALL VEHICLE AND PEDESTRIAN INDICATIONS SHALL BE LED MODULES.
- PEDESTRIAN SIGNALS SHALL BE THE COUNTDOWN TYPE.
- PEDESTRIAN PUSH BUTTONS SHALL MEET ADA GUIDELINES FOR ACCESSIBILITY AND CONSTRUCTION.

INTERSECTION SHALL BE WIRED FOR FUTURE 8-PHASE OPERATION. LABEL AND SEAL ALL WIRING.



CONSTRUCTION NOTES (THIS SHEET ONLY)

- INSTALL TENON FOR FUTURE USE. CAP TENON.
- INSTALL 3" C, 3/2 FROM SERVICE CABINET TO PG&E SERVICE POINT. CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SERVICE INSTALLATION. CONTRACTOR SHALL CONTACT PG&E TO CONFIRM SERVICE POINT LOCATION AND VOLTAGE PRIOR TO THE START OF WORK. CONTRACTOR SHALL PROVIDE A 3" RISER BEND AT THE BASE OF THE POLE AND HAVE TRENCH INSPECTED BY PG&E. CONTRACTOR SHALL MAKE APPLICATION FOR ELECTRIC SERVICE PER PG&E REQUIREMENTS.
- INSTALL COMMUNICATION ANTENNA AND ASSOCIATED EQUIPMENT. REFER TO SPECIAL PROVISIONS.
- INSTALL R9-3a SIGN ON POLE FACING AIRPORT WAY.
- LABEL (PHASE 4 & 7) AND SEAL FOUR DLC IN PULL BOX FOR FUTURE USE.
- EXISTING OVERHEAD ELECTRICAL LINES. CONTRACTOR SHALL COORDINATE WITH PG&E REGARDING THE PLANNED RAISING OF POWER LINES TO INSURE A 10 FT MINIMUM RADIAL CLEARANCE IS PROVIDED BETWEEN LINES AND ALL SIGNAL EQUIPMENT.
- CONTROLLER CABINET SHALL BE FULLY WIRED FOR FUTURE EIGHT PHASE OPERATION.
- INSTALL TYPE 15-FBS FLASHING BEACON WITH CONTROL ASSEMBLY. INSTALL W3-3 SIGN. INSTALL "SIGNAL AHEAD" PAVEMENT MARKINGS. INSTALL STANDARD AND CONTROLS PER STATE STD PLAN ES-7J AND ES-3B.
- LABEL PHASE 5 DLC IN CONTROLLER CABINET FOR FUTURE USE, DO NOT LAND.
- GRADE AND/OR RETAIN EMBANKMENT THIS CORNER AS NEEDED FOR POLE AND PULL BOX INSTALLATION. TOP OF POLE FOUNDATIONS SHALL BE $\pm 6"$ ABOVE ADJACENT PAVEMENT GRADE.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

NO.	REVISIONS	BY	DATE

APPROVED BY:
CITY OF MANTECA PUBLIC WORKS

DESIGN BY: M.B.
DRAWN BY: B.T.
CHECKED BY: KDA
SCALE: 1"=20'
DATE: 12/14/16
PROJ NO.: AIRPORT-LOVELACE-2016

REGISTERED ENGINEER
12/14/16
DATE



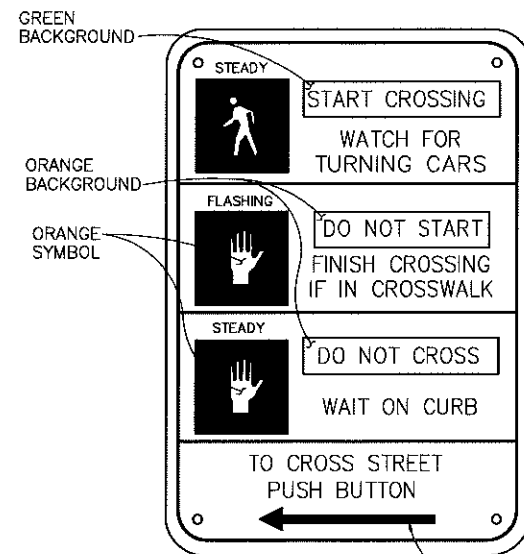
K.D. Anderson
Transportation Engineers
3853 Taylor Road, Suite G
Loomis, California 95650
(916)660-1555

TRAFFIC SIGNAL AND SAFETY LIGHTING
AIRPORT WAY/LOVELACE ROAD

CITY OF MANTECA

CALIFORNIA

TS-2
OF
5

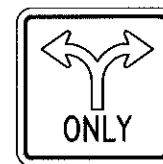


SEE NOTE 1

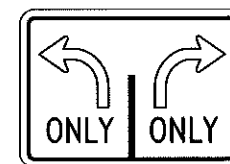
NOTES:

1. SEE POLE SCHEDULES FOR ARROW ORIENTATIONS.
2. BACKGROUND SHALL BE WHITE WITH BLACK TEXT AND LINES, EXCEPT WHERE NOTED OTHERWISE.
3. OVERALL SIGN DIMENSIONS AND INSTALLATION SHALL CONFORM TO CALTRANS STANDARDS FOR PEDESTRIAN PUSH BUTTONS. SEE CALTRANS STANDARD PLAN ES-5C.

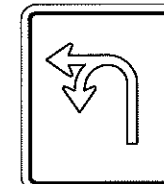
PEDESTRIAN PUSH BUTTON SIGN DETAIL
N.T.S.



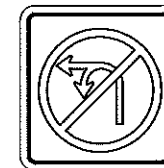
R60B(CA)



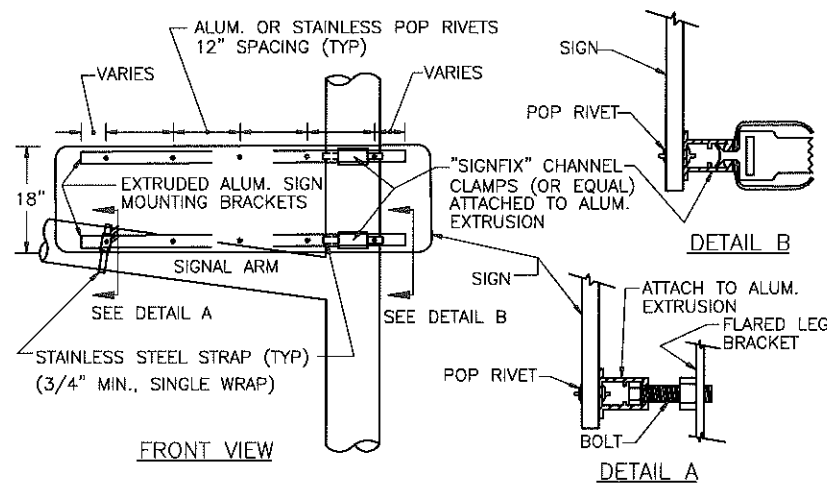
R61-19(CA)



R73-2(CA)



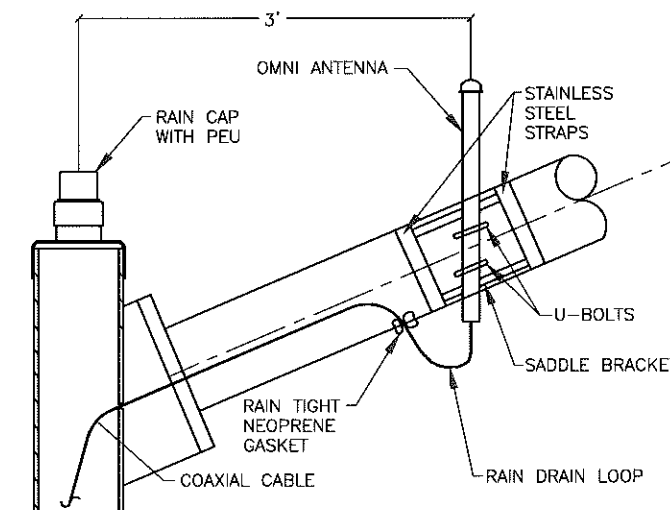
R3-18



TRAFFIC SIGNAL STREET NAME SIGN MOUNTING DETAIL
N.T.S.

NOTES:

1. ALL MATERIAL FURNISHED SHALL BE RUST RESISTANT. ALL SIGN HARDWARE SHALL BE ALUMINUM AND ANY MOVING PARTS MUST BE MADE OF STAINLESS STEEL TO PREVENT RUSTING.
2. THE SIGN MOUNTING EXTRUDED ALUMINUM MOUNTING BRACKETS SHALL BE EITHER MEDIUM ALUMINUM EXTRUSIONS (SIGNFIX PART NO. HPN-053) OR LARGER ALUMINUM EXTRUSIONS (SIGNFIX PART NO. HPN-055). EXTRUDED ALUMINUM MOUNTING BRACKETS MUST BE BY SIGNFIX OR MUST BE DIRECTLY ADAPTABLE TO UNIVERSAL SIGNFIX CHANNEL CLAMPS E.P. (PART NO. HPN-034EP) OR EQUAL FLARED LEG MOUNTING BRACKET FOR MOUNTING TO POLE OR MAST ARM SHALL BE HAWKINS PART NO. M2G-FUB OR APPROVED EQUAL. THREADED PORTION OF BRACKET SHALL ACCEPT COURSE THREAD 5/16 INCH ALL-THREAD BOLT.
3. SINGLE STREET NAME SIGN SHALL HAVE NAME AND SUFFIX CENTERED IN SIGN. SIGNS SHALL BE SINGLE FACE AND FABRICATED ON ALUMINUM BLANKS 0.063-INCH THICKNESS. BLANK SHALL BE 18-INCHES IN WIDTH AND VARY IN LENGTH DEPENDING ON THE NUMBER OF LETTERS OF THE STREET (MIN. OF 6-FEET IN LENGTH). SIGN BLANK SHALL HAVE GREEN BACKGROUND USING 3M DIAMOND GRADE REFLECTIVE VINYL SHEETING. UPPER CASE LETTERS SHALL BE 10-INCHES AND LOWER CASE LETTERS SHALL BE 7.5-INCHES. ALL LETTERS SHALL BE HIGHWAY FONT "D". SIGN SHALL HAVE 1-INCH WHITE BORDER COVERING THE ENTIRE EDGE OF SIGN BLANK. CORNERS SHALL BE NEATLY ROUNDED TO A 3-INCH RADIUS. WORDS SHALL BE SPACED 10-INCHES APART AND THERE SHALL BE 10-INCHES OF SPACING BETWEEN BORDER AND SIDES OF STREET NAME. LETTERS SHALL BE SPACED A MIN. OF 1.5-INCHES.
4. ALL SIGNS SHALL BE APPROVED FOR CONFORMANCE BY THE CITY INSPECTOR PRIOR TO INSTALLATION.



NOTES:

1. PROVIDE ONE CABLE FOR EACH ANTENNAE MOUNTED ON LUMINAIRE ARM.
2. ASSEMBLY WITHOUT ANTENNAE SHALL BE HOT-DIP GALVANIZED PRIOR TO FABRICATION.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWING BEFORE FABRICATING.

ANTENNA MOUNTING DETAIL
N.T.S.

NO.	REVISIONS	BY	DATE

APPROVED BY:

CITY OF MANTECA PUBLIC WORKS

DESIGN BY : M.B.
DRAWN BY : R.T.
CHECKED BY : KDA
SCALE : AS SHOWN
DATE : 12/14/16
PROJ NO. : APPROVE-LOU-2011

REGISTERED ENGINEER
12/14/16
DATE



K.D. Anderson
Transportation Engineers
3853 Taylor Road, Suite G
Loomis, California 95650
(916)660-1555

TRAFFIC SIGNAL AND SAFETY LIGHTING
DETAILS

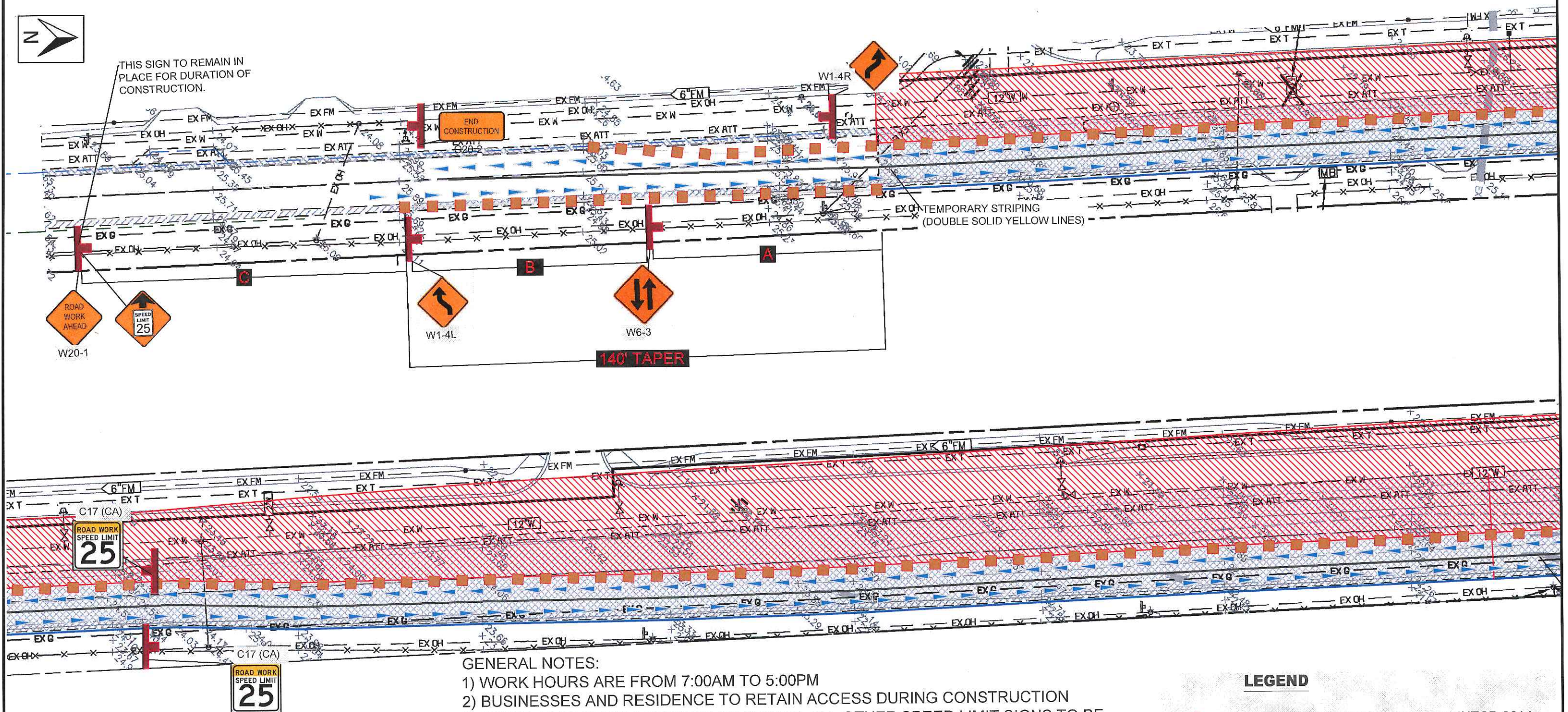
CITY OF MANTECA

CALIFORNIA

TS-5
OF
5



THIS SIGN TO REMAIN IN PLACE FOR DURATION OF CONSTRUCTION.



GENERAL NOTES:

- 1) WORK HOURS ARE FROM 7:00AM TO 5:00PM
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- 4) ALL SIGNS, DELINEATOR SPACING AND TAPER LENGTHS ARE PER MUTCD STANDARDS
- 5) ALL EXISTING CONFLICTING STRIPING TO BE REMOVED.
- 6) COORDINATE AND PROVIDE ACCESS TO ALL PROPERTIES AT ALL TIMES
- 7) SIGNAL LIGHT AT THE INTERSECTION OF AIRPORT WAY AND ROTH ROAD TO BE PLACED ON FLASHING RED THROUGHOUT PROJECT DURATION (75 DAYS).
- 8) CONTRACTOR TO COORDINATE TRAFFIC SIGNAL MODIFICATIONS AS NEEDED WITH CITY OF MANTECA INSPECTORS. FLAGGERS WILL BE AT INTERSECTION DURING ALL SIGNAL MODIFICATIONS.

LEGEND

- SIGN-REFLECTORIZED PER CAMUTCD 2014
- CONES SPACED 45' MAX
- WORK AREA
- DIRECTION OF TRAFFIC

TABLE 1: RECOMMENDED ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS			
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RURAL - 55 MPH	500 feet	500 feet	500 feet	495 feet
RURAL - 60 MPH	720 feet	720 feet	720 feet	570 feet
EXPRESSWAY/FREEWAY	1000 feet	1000 feet	1000 feet	730 feet

APPROVED BY:

DATE

AIRPORT WAY
FOR WORK ON WEST SIDE OF ROAD
PHASE 1

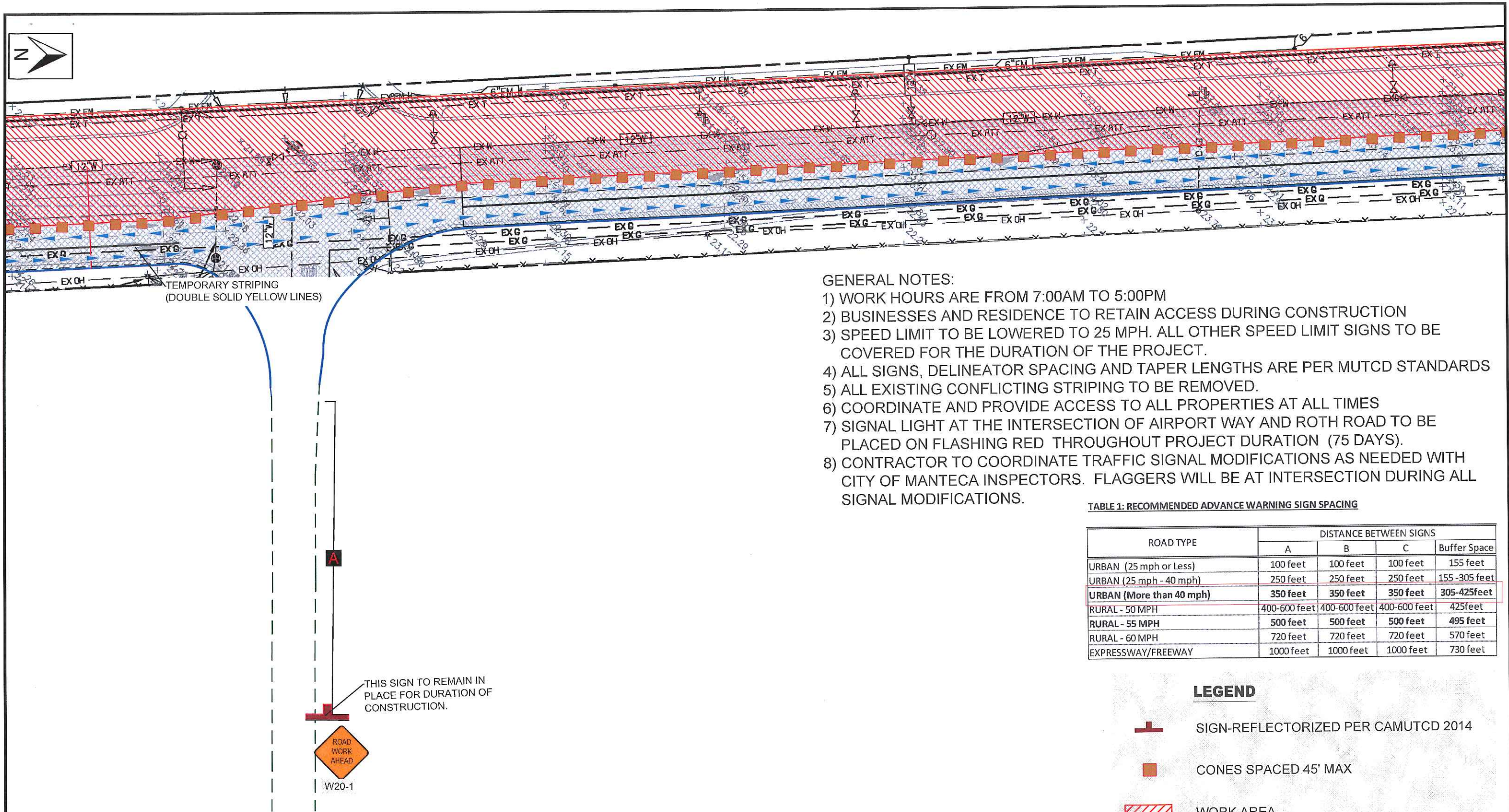
TRAFFIC CONTROL PLAN FOR
CENTERPOINT OFFSITE

MANTECA, CA

KNIFE RIVER
CONSTRUCTION
AN MDR RESOURCES COMPANY
655 W. CLAY STREET
STOCKTON, CA 95206
P: 209.948.0302
F: 209.948.6652

SCALE
JOB NUMBER
PREPARED BY FS
DATE 7/18/2016

SHEET
1
OF 6







GENERAL NOTES:

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-  WORK AREA
-  DIRECTION OF TRAFFIC

APPROVED BY:

DATE

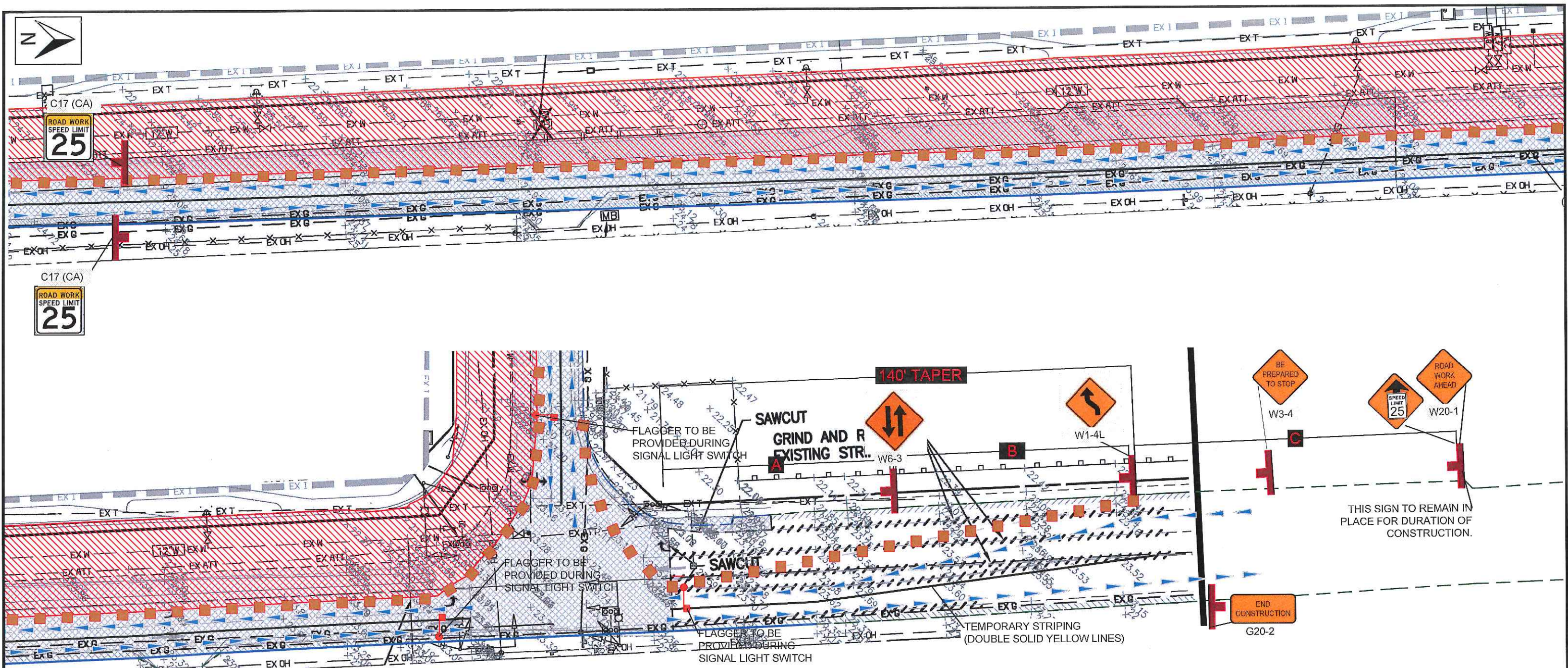
AIRPORT WAY
FOR WORK ON WEST SIDE OF ROAD
PHASE 1

TRAFFIC CONTROL PLAN FOR
CENTERPOINT OFFSITE
MANTECA, CA





KNIFE RIVER
CONSTRUCTION
AN MDU RESOURCES COMPANY
CONTRACTOR'S LICENSE NUMBER 334653
655 W. CLAY STREET
STOCKTON, CA 95206
P: 209.948.0302
F: 209.948.6952

SCALE _____
JOB NUMBER _____
PREPARED BY FS
DATE 7/18/2016

SHEET
2
OF 6



LEGEND

-  SIGN-REFLECTORIZED PER CAMUTCD 2014
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APPROVED BY:

DATE

AIRPORT WAY FOR WORK ON WEST SIDE OF ROAD PHASE 1

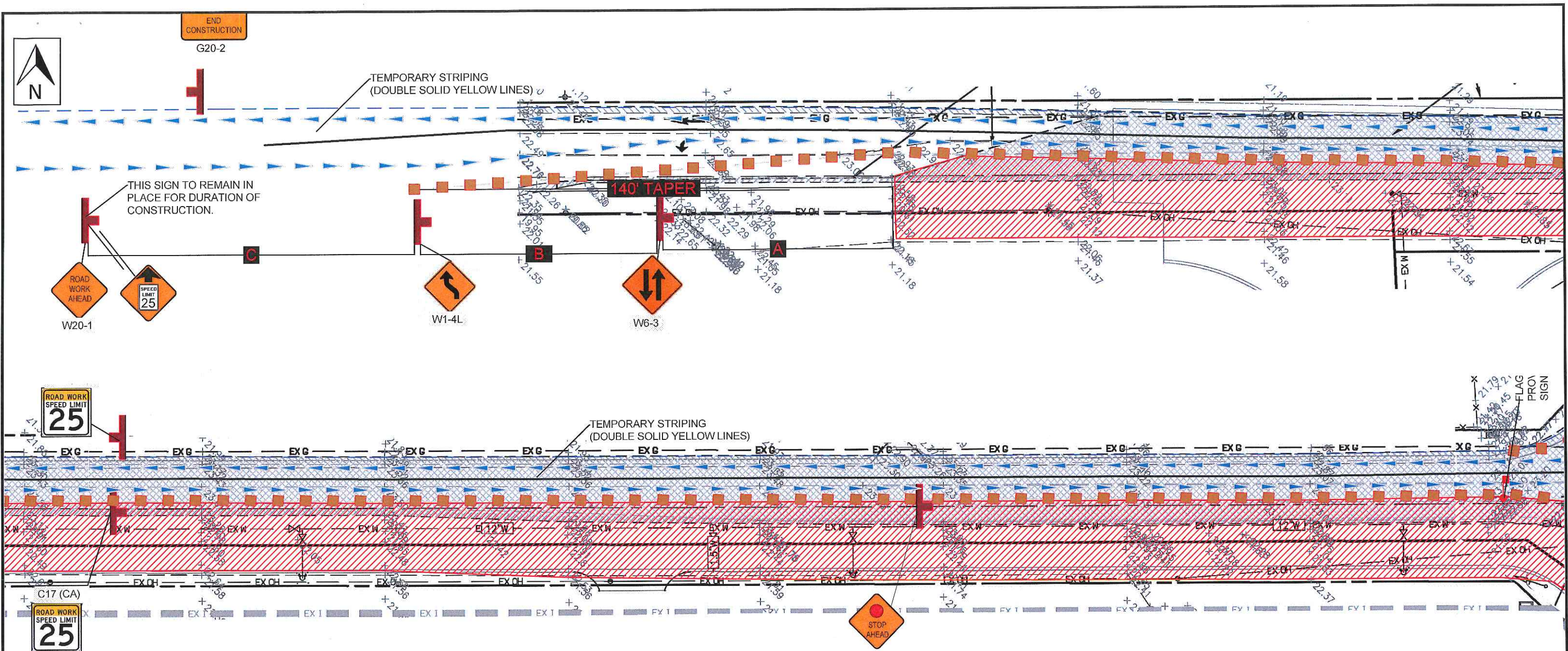
TRAFFIC CONTROL PLAN FOR CENTERPOINT OFFSITE

TRACY, CA







SCALE _____
JOB NUMBER _____
PREPARED BY FS
DATE 7/18/2016

SHEET
3
OF **6**



LEGEND

-  SIGN-REFLECTORIZED PER CAMUTCD 2014
-  CONES SPACED 45' MAX
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-  DIRECTION OF TRAFFIC

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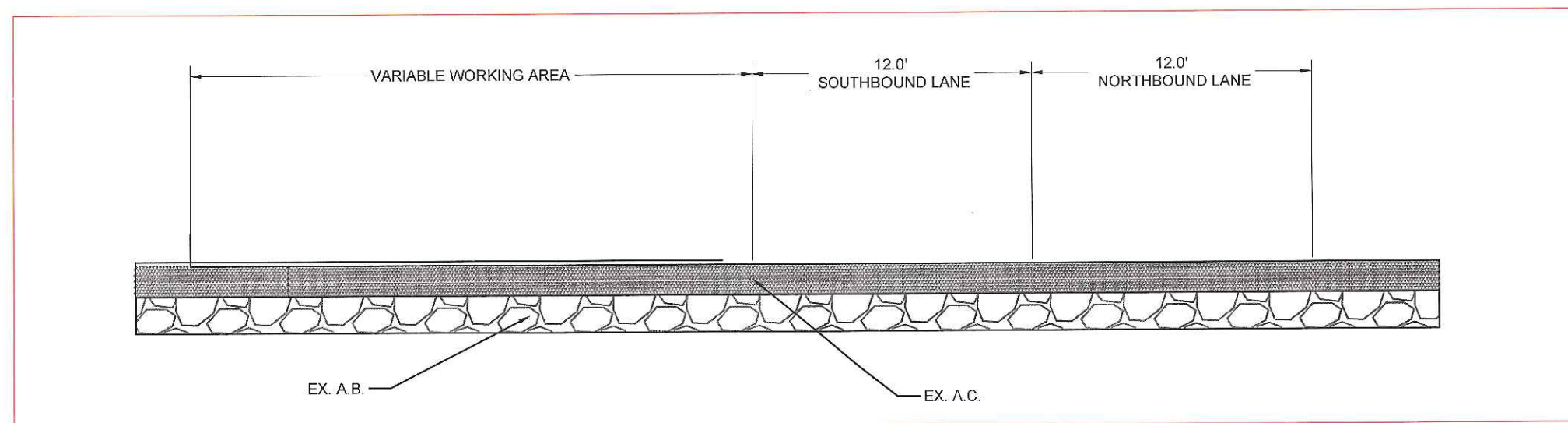
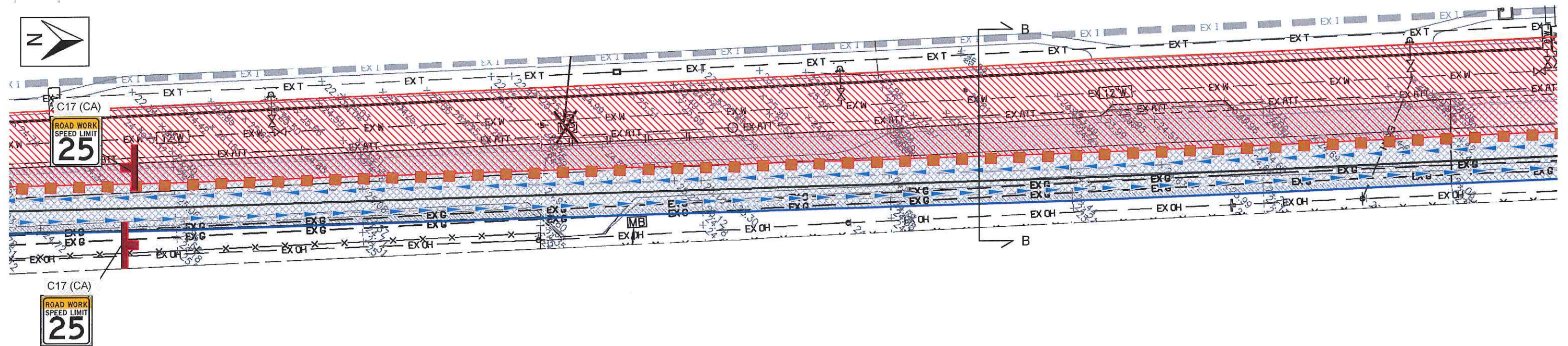
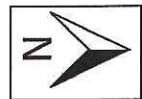
APPROVED BY: _____
DATE: _____

**ROTH ROAD
FOR WORK ON SOUTH SIDE OF ROAD
PHASE 1**

TRAFFIC CONTROL PLAN FOR
CENTERPOINT OFFSITE
MANTECA, CA

**KNIFE RIVER
CONSTRUCTION**
AN MDU RESOURCES COMPANY
CONTRACTOR'S LICENSE NUMBER 334653
655 W. CLAY STREET
STOCKTON, CA 95206
P: 209.948.0302
F: 209.948.6652

SCALE: _____
JOB NUMBER: _____
PREPARED BY: FS
DATE: 7/18/2017
SHEET **4** OF **6**



TYPICAL SECTION B - B
LANE WIDTHS

APPROVED BY:

AIRPORT WAY CROSS-SECTION
PHASE 1

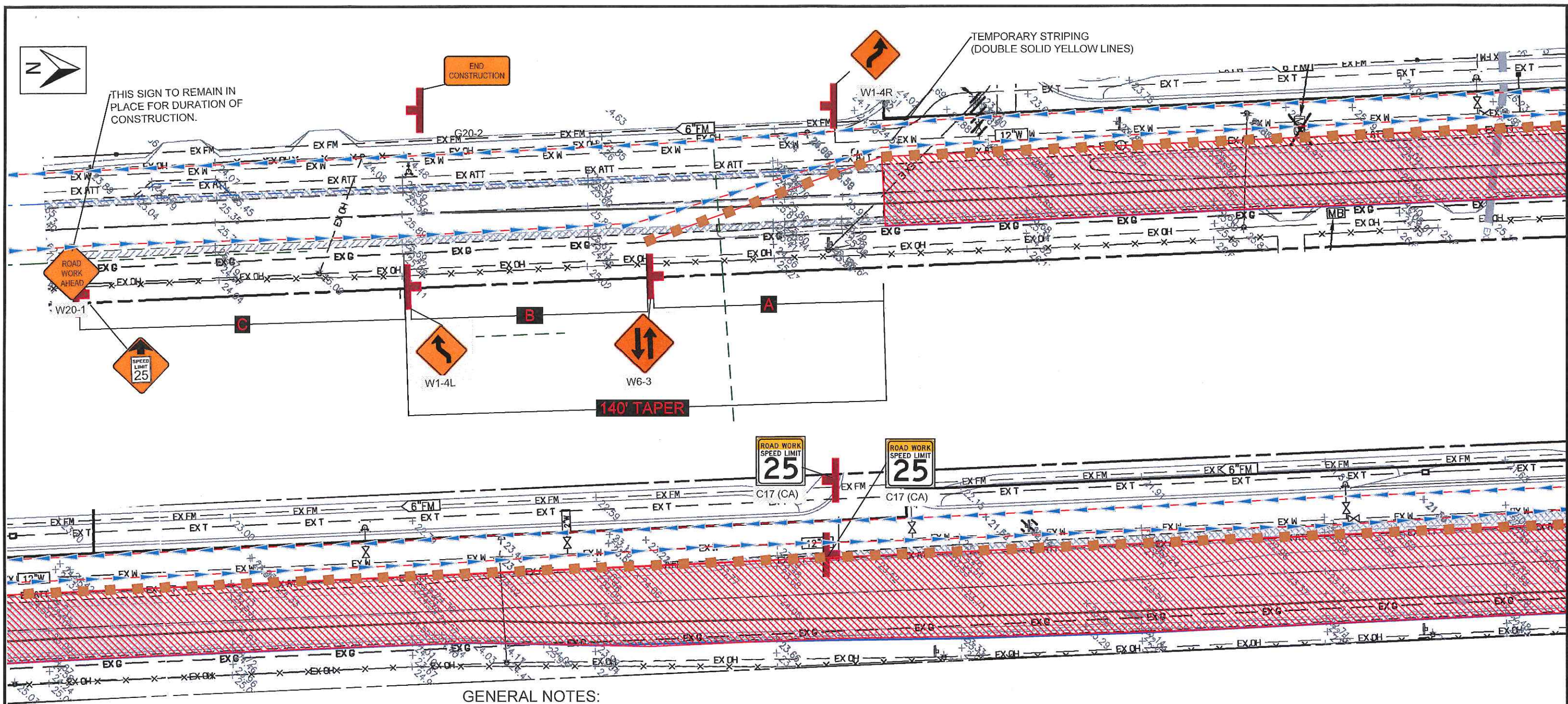
TRAFFIC CONTROL PLAN FOR
CENTERPOINT OFFSITE

TRACY, CA

KNIFE RIVER
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SCALE _____
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PREPARED BY FS
DATE 7/18/2016

SHEET
6
OF **6**



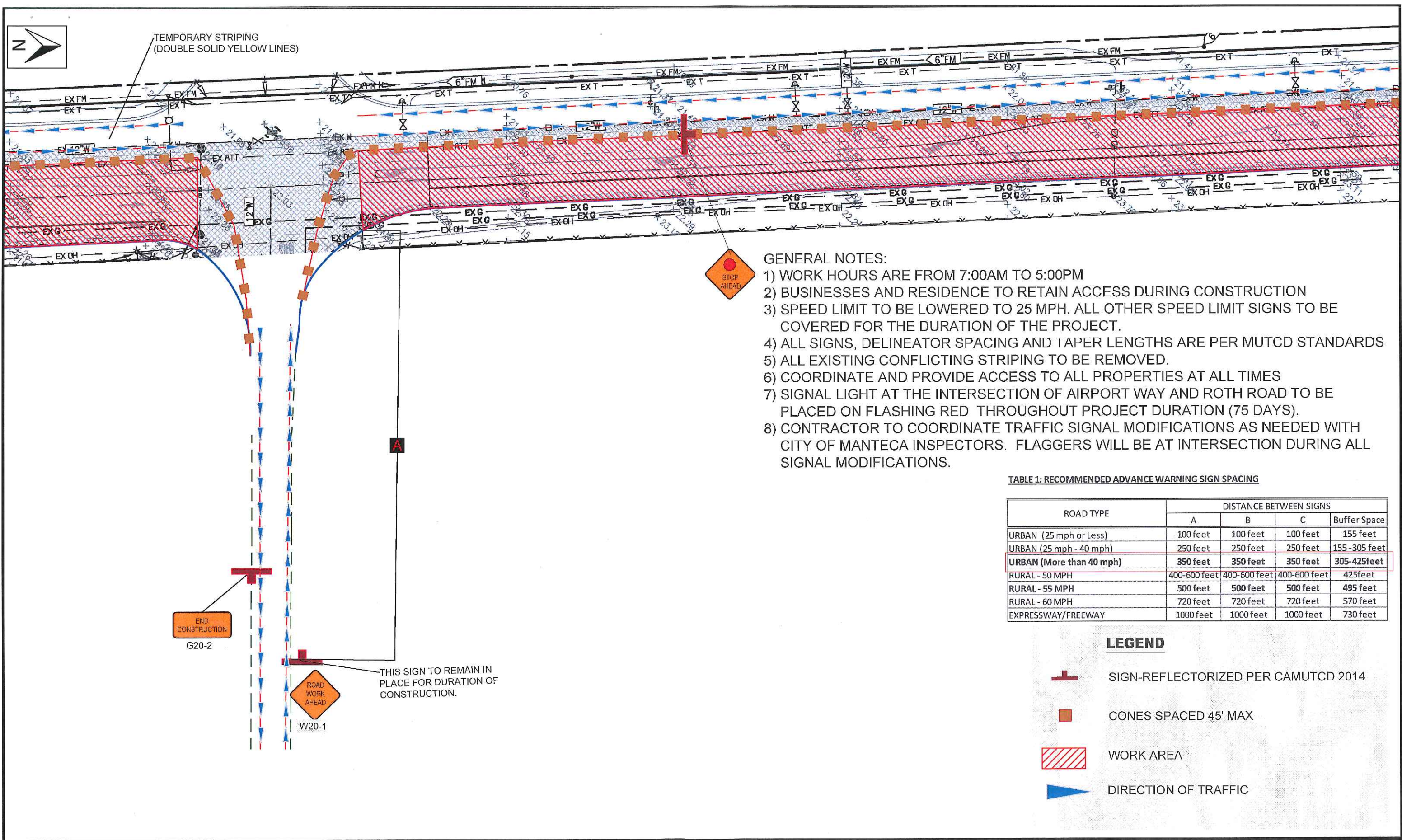
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LEGEND

- SIGN-REFLECTORIZED PER CAMUTCD 2014
- CONES SPACED 45' MAX
- WORK AREA
- DIRECTION OF TRAFFIC







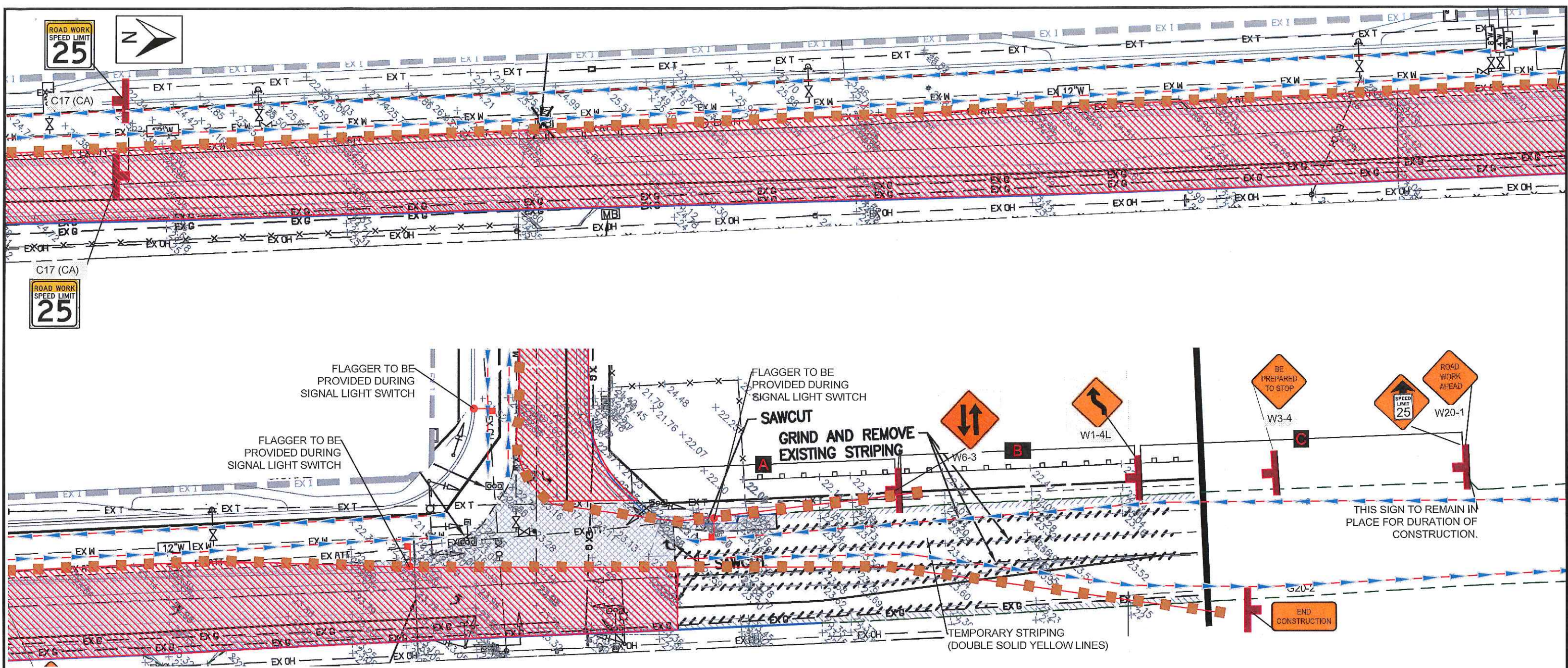
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LEGEND

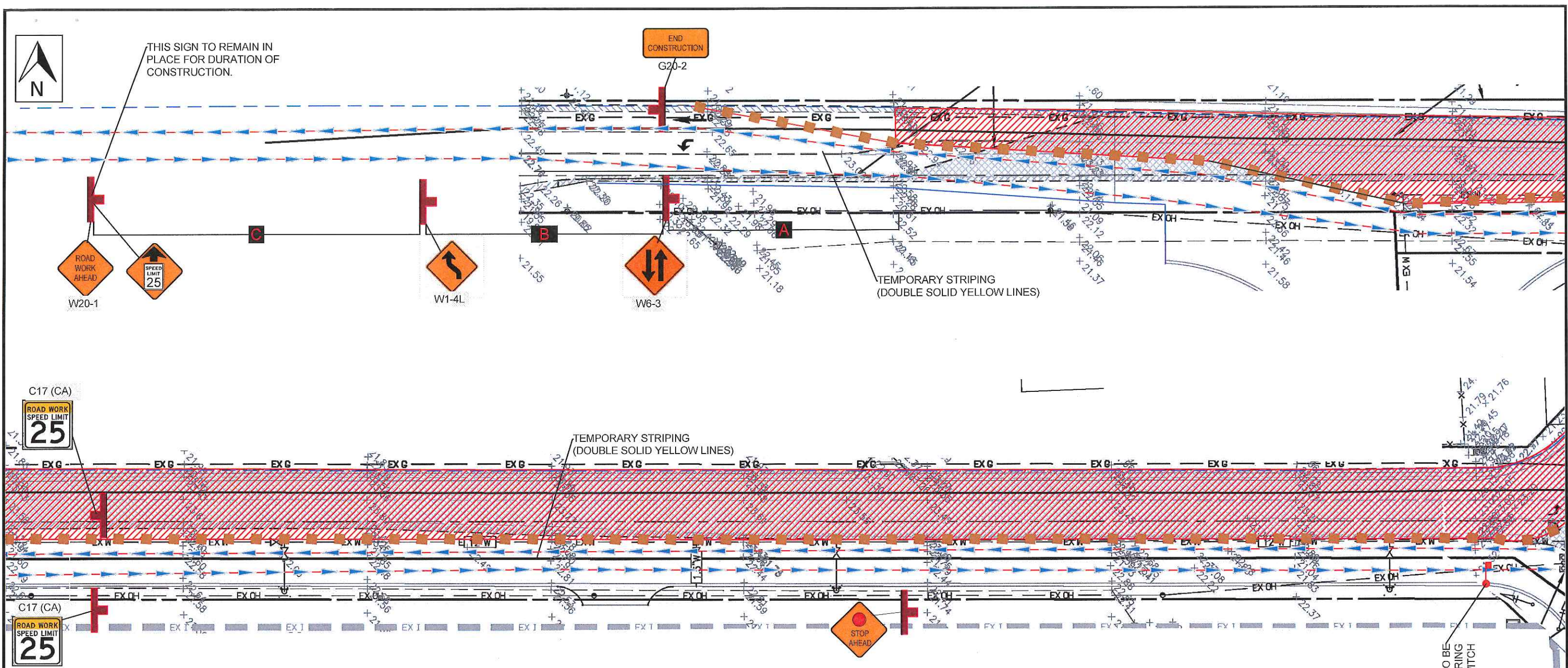
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APPROVED BY:

DATE

ROTH ROAD FOR WORK ON NORTH SIDE OF ROAD PHASE 2

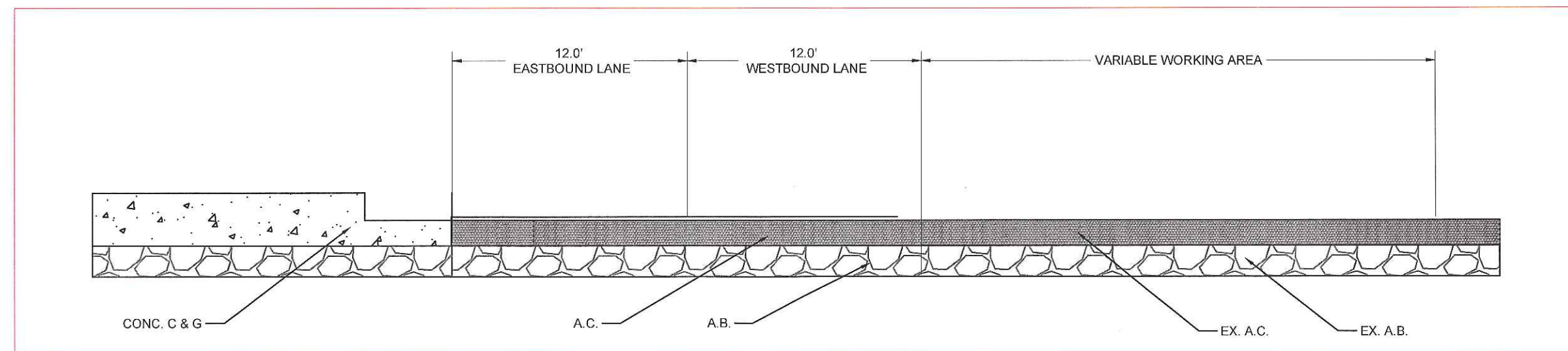
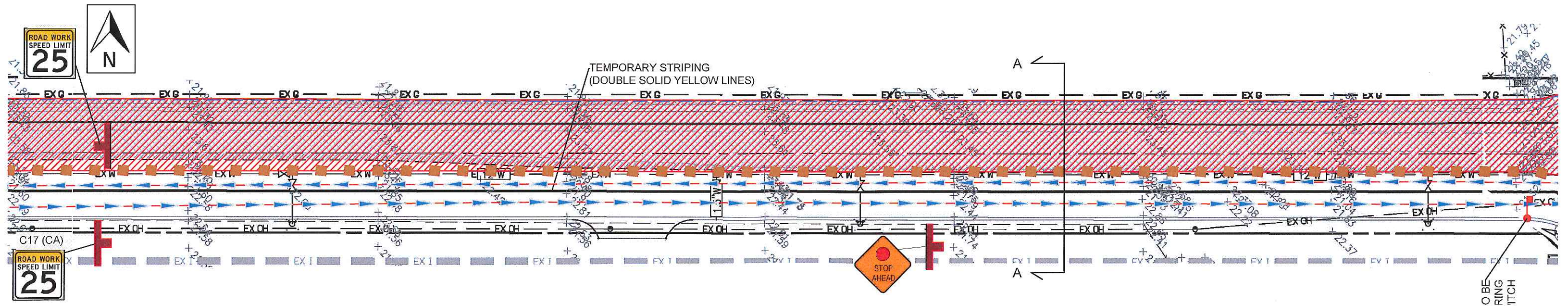
TRAFFIC CONTROL PLAN FOR CENTERPOINT OFFSITE

MANTECA, CA

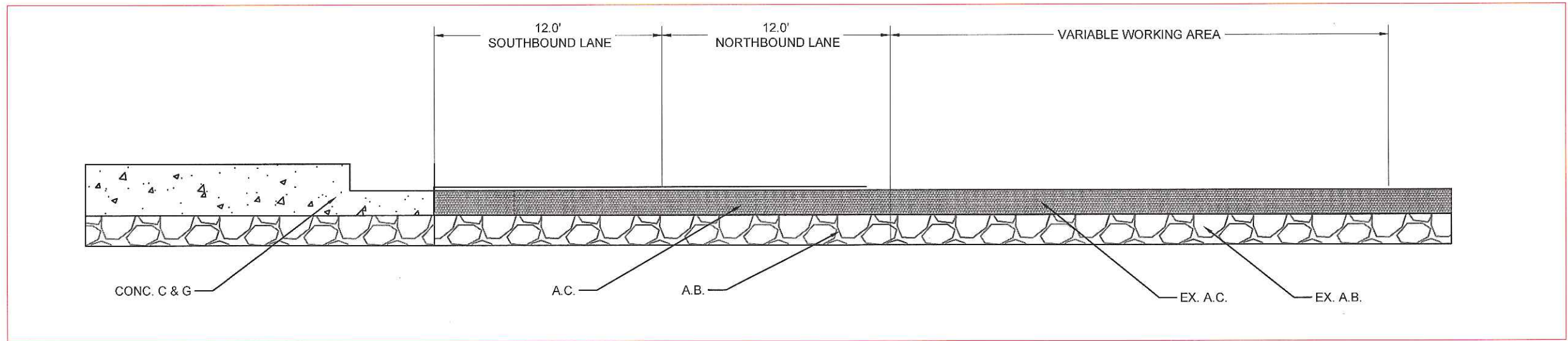
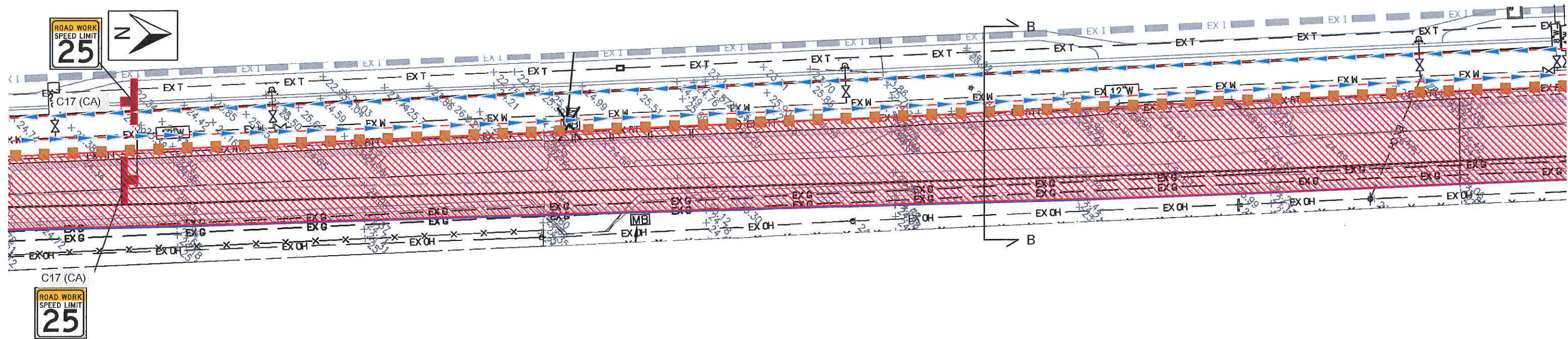


SCALE
JOB NUMBER
PREPARED BY FS
DATE 7/18/2017

SHEET
4
OF **6**



TYPICAL SECTION A - A
LANE WIDTHS



TYPICAL SECTION B - B
LANE WIDTHS

