



CITY OF PEORIA PROJECT NO. TS-0702 FY2007 TRAFFIC SIGNAL PROGRAM

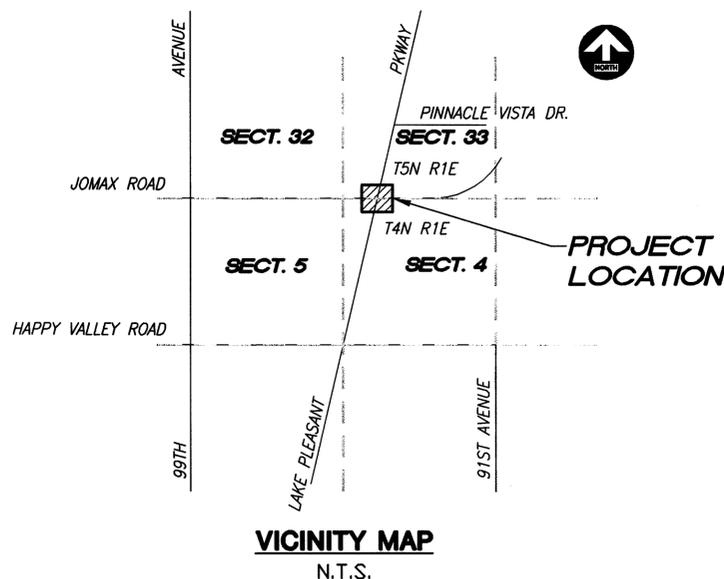
TRAFFIC SIGNAL CONSTRUCTION PLANS FOR JOMAX RD. AND LAKE PLEASANT PKWY. PEORIA, ARIZONA

LOCATED IN A PORTION OF THE SOUTHWEST QUARTER OF
SECT 33 ,T 5 N, R 1 E
AND THE NORTHWEST QUARTER OF
SECT 4 ,T 4 N, R 1 E
OF THE GILA AND SALT RIVER BASE AND MERIDIAN,
MARICOPA COUNTY

MAYOR
BOB BARRETT

VICE MAYOR
CATHY CARLAT

CITY COUNCIL
VICKY HUNT
DAVE PEARSON
RON AMES
CARLO LEONE
JOAN EVANS



- ### LEGEND
- NEW SIGNAL POLE/CONTROLLER IDENTIFIER
 - NEW CONDUIT RUN IDENTIFIER
 - EXISTING PULL BOX IDENTIFIER
 - NEW PULL BOX IDENTIFIER
 - NEW CONTROL CABINET & CONTROLLER
 - NEW CONDUIT RUN
 - NEW SIGNAL POLE WITH SIGNAL MAST ARM, SIGNAL HEAD, AND LUMINAIRE WITH MAST ARM
 - NEW PEDESTRIAN PUSH BUTTON
 - NEW PEDESTRIAN HEAD
 - EXISTING LUMINAIRE
 - NEW LUMINAIRE
 - NEW SIGNAL HEAD
 - NEW EMERGENCY VEHICLE DETECTOR (EVD)
 - NEW ILLUMINATED STREET NAME SIGN (ISNS)
 - NEW VIDEO DETECTION CAMERA
 - EXISTING PEORIA COMMUNICATION VAULT
 - NEW PEORIA COMMUNICATION BOX

SHEET INDEX

- SHEET 1 COVER SHEET (CV01)
- SHEET 2 GENERAL NOTES & DETAILS (GN01)
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- SHEET 4 POLE AND CONDUCTOR SCHEDULE (TS02)
- SHEET 5 SIGNING AND STRIPING (SS01)
- SHEET 6 SIDEWALK RAMP AND RETAINING WALL DETAILS (DT01)

OWNER

CITY OF PEORIA
ENGINEERING DEPARTMENT
GEOFFREY ZINNECKER, P.E.
9875 NORTH 85TH AVENUE
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PHONE (623) 773-7210
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ENGINEER

AMEC INFRASTRUCTURE
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PHOENIX, AZ 85015
PHONE (602) 343-2403
FAX (602) 343-2499

PROJECT BENCHMARK

FOUND 3" BRASS CAP FLUSH AT INTERSECT
OF LAKE PLEASANT PKWY AND JOMAX RD.
ELEV: 1378.43 CITY OF PEORIA DATUM

UTILITY COMPANIES

COMPANY NAME	TYPE OF UTILITY	DATE NOTIFIED	DATE RESPONDED
ARIZONA PUBLIC SERVICE 2121 W. CHERYL DRIVE PHOENIX, ARIZONA 85021 (602) 371-7546 CONTACT: RON GANDARA	ELECTRIC	2/2008	6/04/2008
CITY OF PEORIA 8401 W. MONROE STREET PEORIA, ARIZONA 85345 (623) 773-7477 CONTACT: DONNIE GAUTHIER	SIGNALS & CONDUIT	2/2008	5/2008
COX COMMUNICATIONS 1550 W. DEER VALLEY ROAD PHOENIX, ARIZONA 85027 (623) 328-3522 CONTACT: SUZANNE HOLZER	CABLE	2/2008	-
QWEST COMMUNICATIONS 10220 N. 25TH AVE., STE. 100 PHOENIX, ARIZONA 85021 (602) 630-1429 CONTACT: MICHAEL VESPUCCI	FIBER OPTIC & TELEPHONE	2/2008	3/14/2008
EL PASO GAS (602) 438-4221 CONTACT: RON BROWN	GAS	2/2008	3/18/2008
SOUTHWEST GAS 9 SOUTH 43RD AVENUE PHOENIX, ARIZONA 85007 (602) 484-5649 CONTACT: CLAUDIA GANTERT	GAS	2/20	3/17/2008

AS BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS-BUILT" MEASUREMENTS AS SHOWN OR NOTED HEREON WERE MADE BY MYSELF OR UNDER MY SUPERVISION AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SIGNATURE _____ DATE _____ REGISTRATION NUMBER _____

APPROVAL

THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. THE CITY NEITHER ACCEPTS NOR ASSUMES ANY LIABILITY FOR ERRORS OR OMISSIONS. THIS COMPLIANCE REVIEW SHALL NOT PREVENT THE CITY TRAFFIC ENGINEER FROM REQUIRING CORRECTION OF ERRORS OR OMISSIONS IN PLANS FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE.

CITY TRAFFIC ENGINEER 7/3/08
DATE



REVISIONS:

amec

AMEC Infrastructure, Inc.
2001 WEST CAMELBACK ROAD, SUITE 300
PHOENIX, ARIZONA 85015
PHONE (602) 343-2400
FAX (602) 343-2499

COVER SHEET

PROJECT: JOMAX ROAD and LAKE PLEASANT PARKWAY PEORIA ARIZONA

DESIGNER: KAC
DRAWN BY: SWA

PROJECT N
2007-00

CV01

SHEET NO.
1
of
6

FINAL SUBMITTAL 06.2008

04-2007-007
Plotted By: shelby.austin Date: 25-Jun-08-13:58
File: P:\Phoenix\2007\042007007 - FY07 PEORIA SIGNALS\10_CADD\Jomax Road and Lake Pleasant Pkwy\PLANS\001_CV01.dwg

04-2007-007

Plotted By: shelby.austin Date: 25-Jun-08-09:11 File: P:\Phoenix\2007\042007007 - FY07 PEORIA SIGNALS\10_CADD\Jomax_Road_and_Lake_Pleasant_Pkwy\PLANS\02_GN01.dwg

GENERAL NOTES:

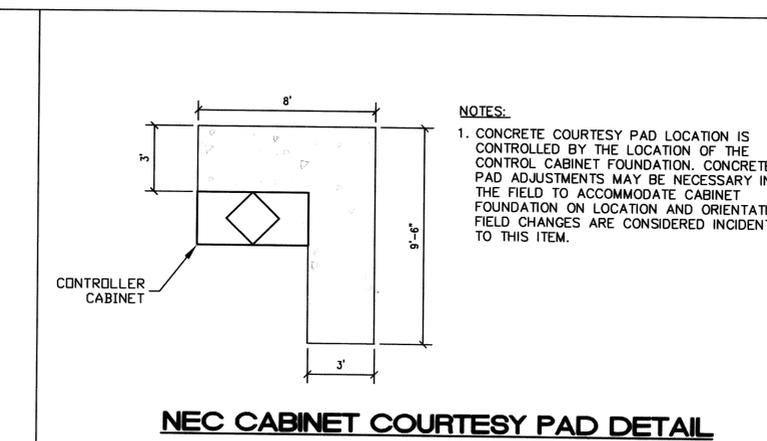
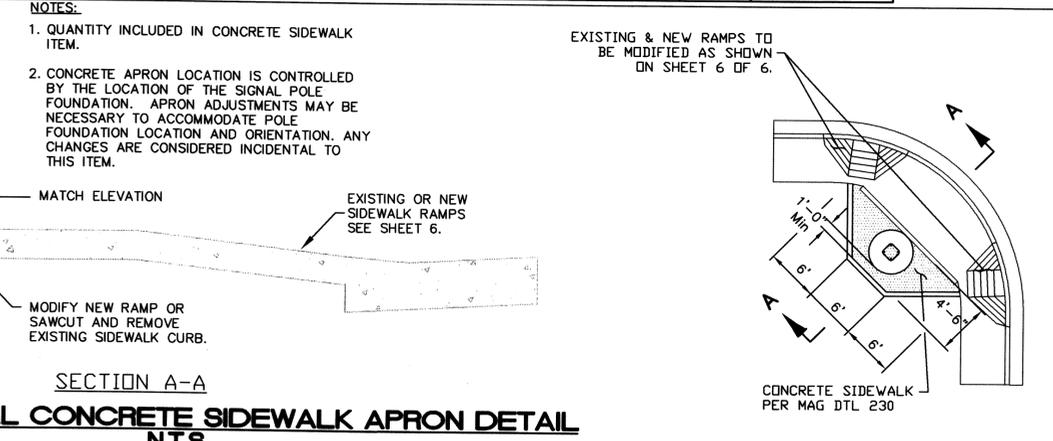
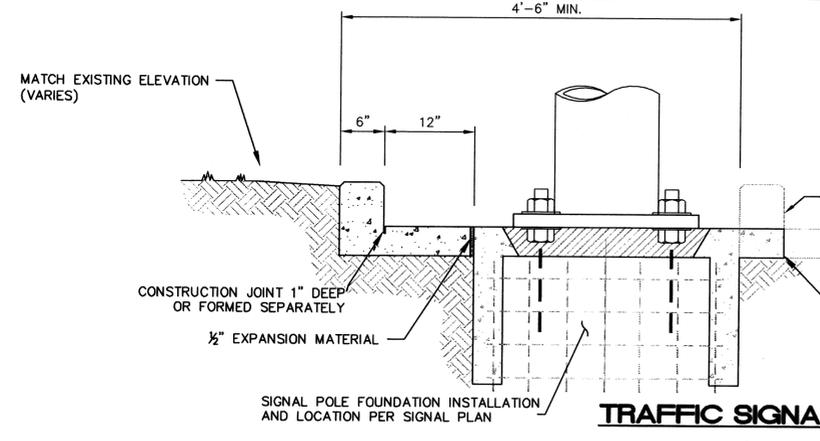
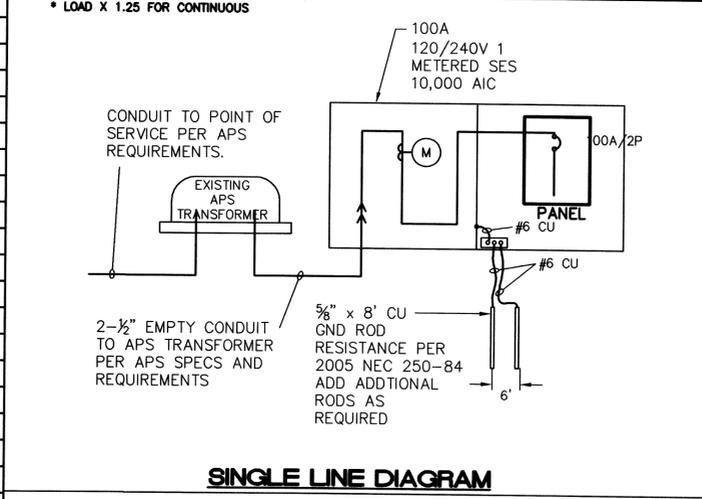
- 1. ALL MATERIAL, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) 2000 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION; THE ADOT TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS LATEST EDITION; THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION ADOPTED BY ADOT; THE CITY OF PEORIA DEVELOPMENT GUIDE AND STANDARD DRAWINGS; THE TRAFFIC SIGNAL SPECIAL PROVISIONS; THE CITY OF PEORIA TRAFFIC SIGNAL CABINET ASSEMBLY BID DOCUMENTATION FOR CONTROLLER ASSEMBLY SPECIFICATIONS, AND THESE PLANS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUE STAKE AT (602) 263-1100. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CURRENT BLUE STAKE MARKINGS THROUGHOUT CONSTRUCTION.
3. THE CONTRACTOR SHALL MEET WITH THE CITY OF PEORIA INSPECTOR AND THE DESIGN ENGINEER FOR THESE PLANS AT THE PROJECT SITE AFTER UTILITIES HAVE BEEN LOCATED BY BLUE STAKE BUT PRIOR TO AND CONSTRUCTION ACTIVITY OR ORDERING OF MATERIALS TO REVIEW THE TRAFFIC SIGNAL POLE LOCATIONS.
4. FOR ELECTRIC SERVICE INSTALLATION REQUIREMENTS, CONTACT ARIZONA PUBLIC SERVICE, RON GANDARA AT (602) 371-7546.
5. EXISTING LANDSCAPING AND/OR IRRIGATION SYSTEM DISTURBED BY CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CITY OF PEORIA COMMUNITY DEVELOPMENT SERVICES DEPARTMENT AT (623) 773-5245.
6. ALL NEW SIGNAL EQUIPMENT SHALL BE IN PLACE AND OPERATIONAL PRIOR TO REMOVING STOP SIGNS.
7. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE ENGINEERING DEPARTMENT. THE TRAFFIC CONTROL PLAN SHALL BE ACCEPTED A MINIMUM OF 24 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DEVICES DURING CONSTRUCTION PER THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL. POLICE CONTROL FOR THE INTERSECTION IS REQUIRED ANYTIME THE TRAFFIC SIGNAL OPERATION IS TO BE INTERRUPTED AND IS TO BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS FOR TRAFFIC CONTROL, BARRICADING, SIGNING AND STRIPING AS PER THE CITY OF PHOENIX BARRICADE MANUAL AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION ADOPTED BY THE ARIZONA DEPARTMENT OF TRANSPORTATION.
8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER DEPARTMENT, INSPECTION SECTION, WITH THE CITY OF PEORIA, AT (623) 773-7536 AT LEAST 48 HOURS IN ADVANCE OF ANY CONSTRUCTION. ANY WORK COMPLETED PRIOR TO INSPECTION SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE IF NOT CONSISTENT WITH CITY STANDARDS.
9. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF PEORIA PRIOR TO CONSTRUCTION.
10. ELECTRICAL SERVICE ADDRESS: 26621 N. Lake Pleasant Parkway

UNDERGROUND UTILITIES

- 1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY OR STRUCTURE DEPICTED HEREON ARE BASED UPON THE BEST AVAILABLE INFORMATION AT THE TIME OF THE FIELD SURVEY.
2. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE DRAWINGS AND THE ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OF THEIR DEPICTED LOCATION ON THESE DRAWINGS.
3. THE CONTRACTOR SHALL CONTACT BLUE STAKE AT (602) 263-1100, AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL INVOLVED AGENCIES, AND FIELD VERIFY EXACT LOCATIONS OF ALL UTILITIES. IF DISCREPANCIES EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

QUANTITY TABLE with columns: ITEM NO., ITEM DESCRIPTION, UNIT, QUANTITY. Includes items like CONSTRUCTION STAKING, MOBILIZATION/DEMOBILIZATION, CONCRETE SIDEWALK, etc.

JOMAX ROAD AND LAKE PLEASANT PRKWY. TYPE QO. PEDESTAL MOUNTED. 100 AMP MAIN BKR. TABLE with columns: DESCRIPTION, BKR SIZE, CIR NO., LOAD A PHASE, LOAD B PHASE, BKR SIZE, CIR NO., DESCRIPTION.



REVISIONS table with columns for revision number and description.

ameco logo and contact information: AMEC Infrastructure, Inc., 2001 WEST CAMELBACK ROAD, SUITE 300, PHOENIX, ARIZONA 85015, PHONE (602) 343-2400, FAX (602) 343-2499.

GENERAL NOTES AND DETAILS. PROJECT: JOMAX ROAD and LAKE PLEASANT PARKWAY, PEORIA, ARIZONA.

DESIGNER: KAC, DRAWN BY: SWA. Includes a professional engineer seal for Kimberly Carroll, Arizona, U.S.A., and project information: PROJECT NO. 04-2007-007, SHEET NO. 2 OF 6, FINAL SUBMITTAL 08/2008.

04-2007-007

Plotted By: shelby.austin Date: 25-Jun-08-09:18
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TRAFFIC SIGNAL NOTES:

- ALL BACKPLATES FOR SIGNAL FACES SHALL BE LOUVERED.
- CONTRACTOR TO PROVIDE NEW IMSA CONDUCTORS. NO SPLICING OF CONDUCTORS IN CONDUIT RUN WILL BE ALLOWED. PULL NEW CONDUCTORS INTO CONDUIT AS SPECIFIED IN THE CONDUCTOR SCHEDULE.
- ALL PULL BOXES SHALL BE LEFT IN A CLEAN CONDITION, FREE OF DIRT AND DEBRIS UPON COMPLETION OF THE WORK.
- THE CONTRACTOR SHALL COORDINATE WITH APS FOR ELECTRIC SERVICE. APS WILL PULL NEW SERVICE WIRE FROM THE POWER SOURCE POINT OF DELIVERY (P.O.D.) TO THE NEW METER PEDESTAL LOCATION. THE CONTRACTOR SHALL PROVIDE AND INSTALL SERVICE CONDUIT FROM APS SERVICE P.O.D. TO THE METER PEDESTAL PER APS INSTALLATION REGULATIONS. CONTACT RON GONDARA WITH APS AT (602) 371-7546 A MINIMUM OF 30 DAYS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF PEORIA OF THE DESIGN OF THE ILLUMINATED STREET NAME SIGNS (METRO SIGNS). BEFORE THE FABRICATION AND INSTALLATION OF THE METRO SIGNS, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY.
- CONSTRUCT NEW CONCRETE APRON AROUND EACH TRAFFIC SIGNAL POLE BASE AS INDICATED ON THE PLANS AND PER "CONCRETE APRON DETAIL FOR TRAFFIC SIGNAL POLES" SHOWN ON SHEET 2 OF 5.
- THE TYPE AND INSTALLATION OF PEDESTRIAN PUSH BUTTONS MUST MEET ADA SPECIFICATIONS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS OF FIBER OPTIC CABLE, GAS LINES, AND OTHER UTILITIES THAT MAY BE IN POTENTIAL CONFLICT WITH SIGNAL EQUIPMENT.
- PRIOR TO CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD INVESTIGATE THE EXISTING INTERSECTION PHYSICAL CONDITIONS. SHOULD THE EXISTING CONDITIONS BE DIFFERENT THAN WHAT IS IDENTIFIED IN THESE PLANS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE CITY OF PEORIA IMMEDIATELY.
- FOR PAVEMENT MARKING AND SIGNING IMPROVEMENTS, SEE SHEET 5.
- DURING CONSTRUCTION IF EXISTING IRRIGATION AND LANDSCAPING IS DISTURBED, IT IS THE CONTRACTOR'S RESPONSIBILITY FOR REPLACING, IN KIND, DISTURBED IRRIGATION AND LANDSCAPING. REPLACEMENT SHALL BE INCIDENTAL TO THE TRAFFIC SIGNAL INSTALLATION COST.
- CONTRACTOR SHALL REMOVE STREET LIGHT ONLY WHEN TRAFFIC SIGNAL IS FULLY OPERATIONAL, UNLESS OTHERWISE APPROVED BY THE CITY. APS SHALL DE-ENERGIZE STREET LIGHT PRIOR TO REMOVAL (BY CONTRACTOR). EXISTING STREET LIGHT J-BOX TO REMAIN AND PROTECT IN PLACE.
- ALL IMSA CONDUCTORS SHALL BE INSTALLED WITHOUT SPLICING FROM THE SIGNAL HEAD TO THE PULL BOXES. TS BLOCKS SHALL NOT BE USED AS A CONNECTION POINT BETWEEN THE PULL BOX AND THE VEHICLE OR PEDESTRIAN INDICATIONS.

REMOVAL/INSTALLATION NOTES:

- | | | |
|----|--|-----------------------------|
| # | REMOVAL/INSTALLATION NOTES: | QTY |
| 1 | REMOVE EXISTING STREET LIGHT (BY CONTRACTOR). SEE NOTE 12. | 1 EA |
| 5 | INSTALL CONCRETE "COURTESY" PAD PER DTL SHOWN ON SHEET 2. | QUANTITY INCLUDED IN ITEM 3 |
| 11 | PROTECT APS J-BOX IN PLACE. | (SEE SHT 6 OF 6.) |

SEE SHEET 6 OF 6 FOR CONSTRUCTION ITEMS FOR INSTALLATION OF NEW SIDEWALK RAMPS AND DETAILS.

FUTURE DEVELOPMENT (By Others)
 LAKE PLEASANT PROMENADE
 SEE PLANS PREPARED BY
 METRO/LAND CONSULTANTS, LLC

FOUND ALUM CAP
 0.6' BELOW
 PAVEMENT IN POTHOLE
 99TH AVE. & JOMAX RD.
 P-5337

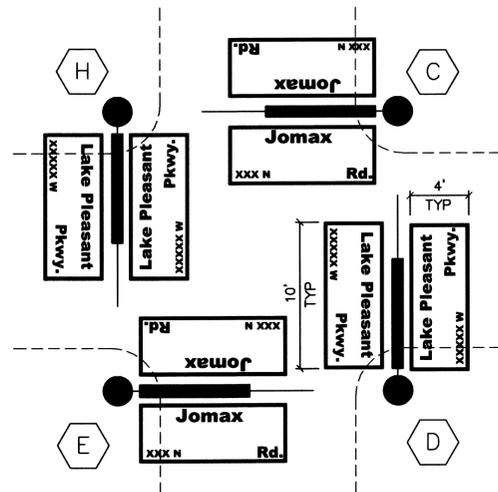
IISNS NOTES

PRIOR TO ORDERING AND FABRICATION OF THE INTERNALLY ILLUMINATED STREET NAME SIGNS (IISNS), THE CONTRACTOR SHALL SUBMIT THREE (3) MATERIALS SUBMITTALS TO THE CITY FOR REVIEW AND APPROVAL.

IISNS SHALL BE MOUNTED ON THE TRAFFIC SIGNAL POLE.

THE CONTRACTOR SHALL OBTAIN IISNS MOUNTING, FACE LAYOUT, AND SIGN CABINET DETAILS FROM THE CITY OF PEORIA.

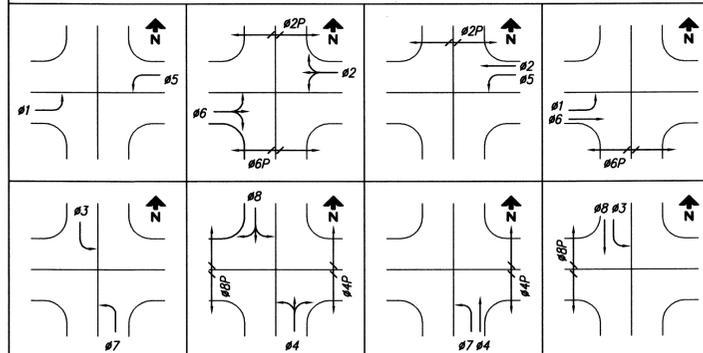
SEE SPECIAL PROVISIONS.



INTERNALLY ILLUMINATED STREET NAME SIGN

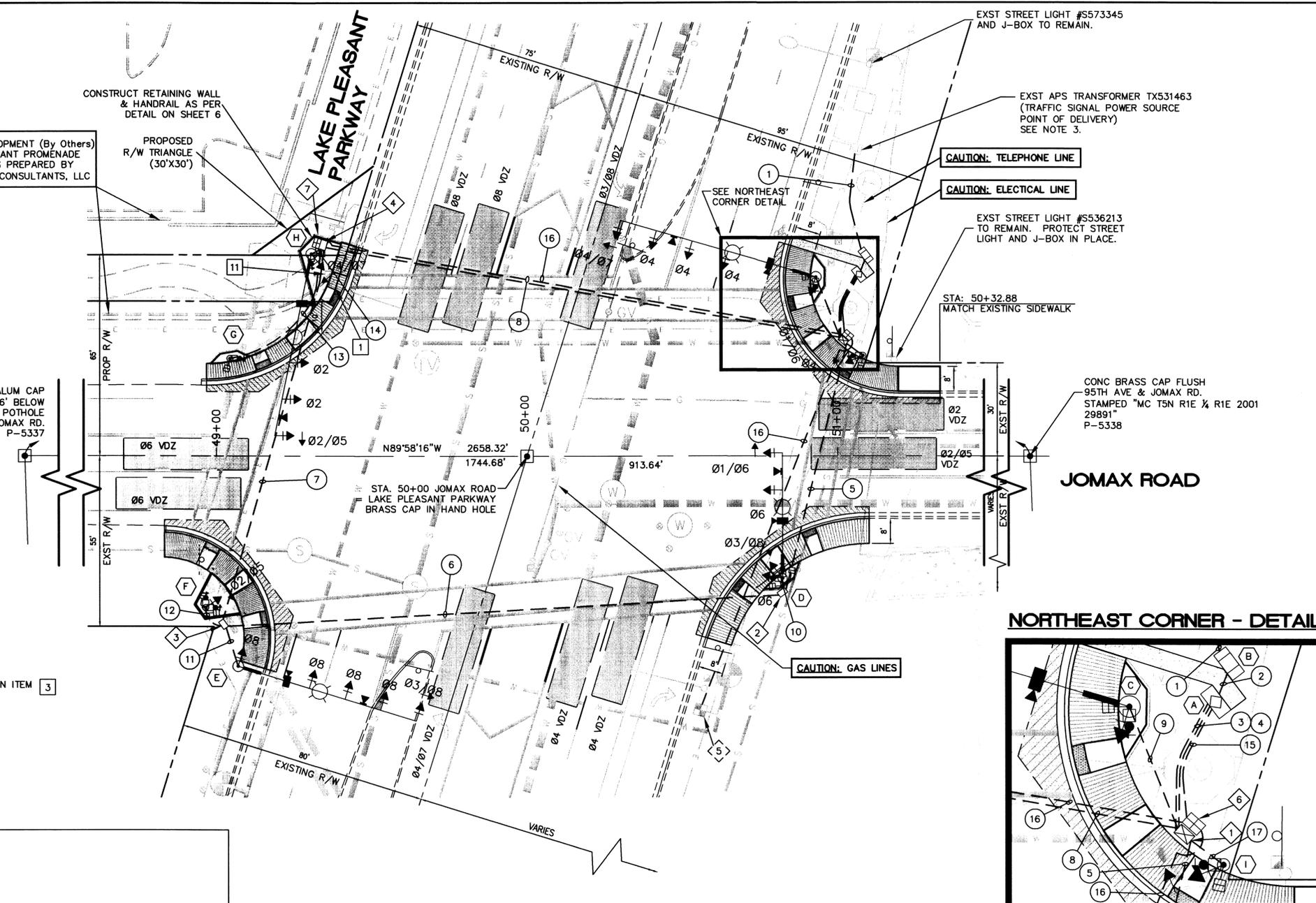
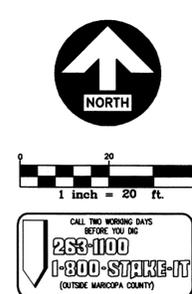
DETAIL
 NTS

PHASING SCHEMATIC

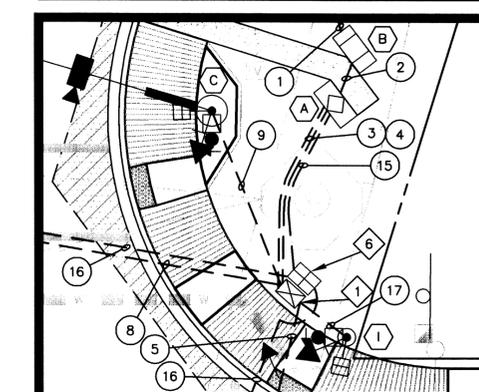


PULL BOX SCHEDULE

NO.	TYPE	LOCATION	REMARKS
1	NO. 7 W/EXT.	STA: 51+01.7 37.2' LT	PROVIDE AND INSTALL PER ADOT T.S. 1-4 SEE NOTE 3.
2	NO. 7	STA: 50+82.1 44.0' RT	PROVIDE AND INSTALL PER ADOT T.S. 1-3 SEE NOTE 3.
3	NO. 7	STA: 49+02.3 54.3' RT	PROVIDE AND INSTALL PER ADOT T.S. 1-3 SEE NOTE 3.
4	NO. 7	STA: 49+33.9 68.4' LT	PROVIDE AND INSTALL PER ADOT T.S. 1-3 SEE NOTE 3.
5	EXST PEORIA COMM VAULT	APPROXIMATELY AS SHOWN	TO REMAIN
6	PEORIA COMM BOX	STA: 51+03.3 38.9' LT	PROVIDE AND INSTALL PER PE-034
7	PEORIA COMM BOX	STA: 49+32.4 69.9' LT	PROVIDE AND INSTALL PER PE-034



NORTHEAST CORNER - DETAIL



REVISIONS

amec

AMEC Infrastructure, Inc.
 2001 WEST CAMELBACK ROAD, SUITE 300
 PHOENIX, ARIZONA 85015
 PHONE (602) 343-2400
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TRAFFIC SIGNAL LAYOUT

JOMAX ROAD and LAKE PLEASANT PARKWAY
 PEORIA, ARIZONA

PROJECT: KAC
 DRAWN BY: SWA

Kimberly Carroll
 Professional Engineer
 34570 KIMBERLY CARROLL
 ARIZONA, U.S.A.
 EXPIRES: 3/31/2009

PROJECT NO.
 04-2007-007

TS01

SHEET NO.
3 of 6

FINAL SUBMITTAL 06/2008

04-2007-007

Plotted By: shelbyaustin Date: 25-Jun-08-09:28
 File: P:\Phoenix\2007\042007007 - FY07 PEORIA SIGNALS\10_CADD\Jomax Road and Lake Pleasant Pkwy\PLANS\04_TS02.dwg

POLE LAYOUT SCHEDULE

TRAFFIC SIGNAL CONTROLLER				REMARKS	LOCATION				
CABINET	TYPE	CONTROLLER	AUX. CONTROL						
	CABINET	TS-2 ECONOLITE ASC/3-1000 8-PHASE	INSTALL TWO SEPARATE 20 AMP FUSED LIGHTING CONTACTORS, ONE FOR STREET LIGHTS, AND ONE FOR INTERNALLY ILLUMINATED STREET SIGNS (ISNS)	1 CABINET FOUNDATION PER ADOT STD. DWG. T.S. 2-3 WITH "COURTESY PAD" TO SIDEWALK, SEE NOTE 10. 2 CABINET SHALL HAVE SEPARATE TEST SWITCHES LOADED IN THE POLICE PANEL FOR LUMINAIRES & ISNS. 3 POLICE BUTTON SHALL HAVE 6 FOOT COILED RETRACTABLE CORD. 4 INSTALL 3M OPTICOM PHASE SELECTOR MODEL 754 5 EXTENDED BASE	STA: 51+06.8 58.6' LT				
	MYERS MEUG16			ELECTRICAL SERVICE ADDRESS: 26621 N. Lake Pleasant Parkway	STA: 51+09.0 64.8' LT				
POLES		MAST ARM		SIGNALS		REMARKS	LOCATION		
NO.	LAYOUT	TYPE	SIG.	LUM.	MTG.			FACE	
		PEORIA MODIFIED R POLE (PE-038)	65'	25'		1-II 3-II 1-XI 1-XI	1-Q 3-F 1-F 1-M/H (1) ADA PPB R10-4b(L)	FURNISH AND INSTALL: 1 SINGLE CHANNEL EVD (3M OPTICOM), MODEL 711 2 PEORIA MOD. TYPE "R" POLE PER PEORIA DTL PE-038 & FOUNDATION PER PEORIA DTL PE-037. 3 ISNS "JOMAX RD." 4 250 W (240V) HPS LUMINAIRE WITH INTERNAL BALLAST. SEE NOTE 4. 5 VIDEO DETECTION CAMERA. ECONOLITE SOLO TERRA. SEE NOTE 11. 6 65' SMA & 25' LMA 7 (1) ADA PPB. SEE NOTE 5. 8 (1) TYPE F, (1) TYPE Q, AND (1) M/H 9 (4) TYPE II AND (2) TYPE XI MOUNTING ASSEMBLIES.	STA: 50+92.9 57.8' LT
		Q	40'	20'		1-II 1-II 1-XI 1-XI 1-VII	1-Q 1-F 1-F 1-F 2-M/H (2) ADA PPB R10-4b(R) R10-4b(L)	FURNISH AND INSTALL: 1 SINGLE CHANNEL EVD (3M OPTICOM), MODEL 711 2 TYPE "Q" POLE AND FOUNDATION PER ADOT STANDARD DETAIL T.S. 4-10. 3 ISNS "LAKE PLEASANT PKWY." 4 250 W (240V) HPS LUMINAIRE WITH INTERNAL BALLAST. SEE NOTE 4. 5 VIDEO DETECTION CAMERA. ECONOLITE SOLO TERRA. SEE NOTE 11. 6 40' SMA AND 20' LMA 7 (2) ADA PPB. SEE NOTE 5. 8 (2) TYPE F, (2) TYPE Q AND (2) M/H 9 (2) TYPE II AND (2) TYPE XI & (1) TYPE VII MOUNTING ASSEMBLIES	STA: 50+82.2 39.5' RT
		PEORIA MODIFIED R POLE (PE-038)	60'	25'		1-II 3-II 1-XI	1-Q 3-F 1-F	FURNISH AND INSTALL: 1 SINGLE CHANNEL EVD (3M OPTICOM), MODEL 711 2 PEORIA MOD. TYPE "R" POLE PER PEORIA DTL PE-038 & FOUNDATION PER PEORIA DTL PE-037. 3 ISNS "JOMAX RD." 4 250 W (240V) HPS LUMINAIRE WITH INTERNAL BALLAST. SEE NOTE 4. 5 VIDEO DETECTION CAMERA. ECONOLITE SOLO TERRA. SEE NOTE 11. 6 60' SMA AND 25' LMA 7 (4) TYPE F, (1) TYPE Q 8 (4) TYPE II AND (1) TYPE XI MOUNTING ASSEMBLIES	STA: 49+07.0 67.7' RT
		A (16')	-	-		1-XI 1-VII	1-Q 2-M/H (2) ADA PPB R10-4b(R) R10-4b(L)	FURNISH AND INSTALL: 1 TYPE "A" POLE (16') & FOUNDATION PER ADOT STD DTL T.S. 4-1. 2 (2) ADA PPB. SEE NOTE 5 3 (1) TYPE Q AND (2) M/H 4 (1) TYPE VII AND (1) TYPE XI MOUNTING ASSEMBLIES	STA: 48+96.5 48.9' RT
		A (8')	-	-		1-XI	1-M/H (1) ADA PPB R10-4b(L)	FURNISH AND INSTALL: 1 TYPE "A" POLE (8') & FOUNDATION PER ADOT STD DTL T.S. 4-1. 2 (1) ADA PPB. SEE NOTE 5 3 (1) M/H 4 (1) TYPE XI MOUNTING ASSEMBLY	STA: 49+04.3 31.5' LT
		PEORIA MODIFIED R POLE (PE-038)	60'	25'		1-II 2-II 1-XI 1-XI	1-Q 2-F 1-Q 1-M/H (1) ADA PPB R10-4b(R)	FURNISH AND INSTALL: 1 SINGLE CHANNEL EVD (3M OPTICOM), MODEL 711 2 PEORIA MOD. TYPE "R" POLE PER PEORIA DTL PE-038 & FOUNDATION PER PEORIA DTL PE-037. 3 ISNS "JOMAX RD." 4 250 W (240V) HPS LUMINAIRE WITH INTERNAL BALLAST. SEE NOTE 4. 5 VIDEO DETECTION CAMERA. ECONOLITE SOLO TERRA. SEE NOTE 11. 6 60' SMA AND 25' LMA 7 (1) ADA PPB. SEE NOTE 5. 8 (1) M/H 9 (2) TYPE F AND (2) TYPE Q 10 (3) TYPE II AND (2) TYPE XI MOUNTING ASSEMBLIES.	STA: 49+30.6 65.5' LT SEE NOTE 13
		A (16')	-	-		1-XI 1-XI	1-Q 1-M/H (1) ADA PPB R10-4b(R)	FURNISH AND INSTALL: 1 TYPE "A" POLE (16') & FOUNDATION PER ADOT STD DTL T.S. 4-1. 2 (1) ADA PPB. SEE NOTE 5 3 (1) TYPE Q AND (1) M/H 4 (2) TYPE XI MOUNTING ASSEMBLIES	STA: 50+08.1 32.4' LT

NOTES:

- PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL POT HOLE ALL FOUNDATION LOCATIONS FOR POTENTIAL CONFLICTS.
- TOP OF NEW POLE FOUNDATIONS SHALL BE AT THE SAME ELEVATION AS THE ADJACENT SIDEWALK OR TOP OF CURB WHERE NO SIDEWALK EXISTS. THE CONTRACTOR SHALL COMPACT THE FILL AROUND THE POLE FOUNDATIONS FOR STRUCTURAL SUPPORT.
- ALL RED, YELLOW, GREEN VEHICLE SIGNAL INDICATIONS AND "FILLED-IN" MAN/HAND PEDESTRIAN INDICATIONS SHALL BE DIALIGHT LED MODULES.
- 52,000 HOUR LAMPS TO BE USED IN LUMINAIRES.
- THE PEDESTRIAN PUSH BUTTON SHALL CONFORM TO ADOT STANDARD DRAWING T.S. 11-1. PUSH BUTTON SHALL MEET ADA REQUIREMENTS AND BE MOUNTED AT ADA REQUIRED HEIGHT. INSTALL THE R10-4b PEDESTRIAN PUSH BUTTON SIGN(S) ON HOUSING.
- THE PEDESTRIAN PUSH BUTTON SHALL BE MOUNTED IN ACCORDANCE WITH ADOT STANDARD DRAWING T.S. 4-21, EXCEPT THE CENTER OF THE PUSH BUTTON SHALL BE A MAXIMUM OF 42 INCHES ABOVE THE FINISHED SIDEWALK.
- SEE SPECIAL PROVISIONS FOR ILLUMINATED STREET NAME SIGN (ISNS) INSTALLATION REQUIREMENTS.
- PRIOR TO INSTALLATION, THE CONTRACTOR IS RESPONSIBLE FOR POSITIONING THE INDIVIDUAL HEADS SO THEY ARE COMPLETELY VISIBLE TO THE APPROACHING DRIVER THE SIGNAL IS INTENDED TO CONTROL.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND PULLING THE NEW CONDUCTORS IN CONDUIT RUNS, AS INDICATED IN THE CONDUCTOR SCHEDULE. CONDUCTORS SHALL NOT BE SPLICED.
- CABINET "COURTESY PAD" SHALL BE CONSTRUCTED PER DETAIL ON SHEET 2 AND CONSIST OF A 4 INCH PCC PAD IN FRONT OF THE CABINET. PAD SHOULD CONNECT AND BE FLUSH WITH SIDEWALK AS SHOWN IN PLANS. PAD SHALL BE SET 2 INCHES BELOW THE FOUNDATION ELEVATION. SLOPE PAD AWAY FROM CABINET. SEE ADOT STANDARD DETAIL T.S. 2-1.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING VIDEO DETECTION EQUIPMENT. ALL MATERIALS, PROCESSOR, AND CONSTRUCTION SHALL COMPLY WITH THE SPECIAL PROVISIONS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT CITY OF PEORIA, ENGINEERING INSPECTOR AT (623) 773-7536 TO COORDINATE MOUNTING AND INSTALLATION OF THE VIDEO DETECTION DEVICE. LINE OF SIGHT SHALL BE ADJUSTED IN THE FIELD.
- PRIOR TO CONSTRUCTION & INSTALLATION OF POLE (H) FOUNDATION, THE CONTRACTOR IS RESPONSIBLE FOR ORIENTING FOUNDATION & POLE SO SIGNAL MAST ARM & HEADS ARE NOT OVER SOUTHBOUND TRAVEL LANES. CONTRACTOR SHALL VERIFY AND REVISE PRIOR TO CONSTRUCTION OF FOUNDATION. ANGLE SHOWN IS APPROXIMATE.
- FOUNDATION SHALL BE CONSTRUCTED PER DETAIL SHOWN ON SHEET 6 OF 6. THE CONTRACTOR SHALL CONSTRUCT THE FULL DEPTH OF SIGNAL FOUNDATION BELOW EXISTING GRADE PER PEORIA DETAIL PE-037. RETAINING WALL SHALL BE CONSTRUCTED TO SUPPORT BACKFILL. RETAINING WALL NOT DESIGNED TO STRUCTURALLY SUPPORT POLE FOUNDATION.

VDC = VIDEO DETECTION CAMERA
 SMA = SIGNAL MAST ARM
 LMA = LUMINAIRE MAST ARM
 EVD = EMERGENCY VEHICLE DETECTION
 ISNS = INTERNALLY ILLUMINATED STREET NAME SIGN

IMSAs CABLE 19-1, #14 AWG, 4 CONDUCTOR & 7 CONDUCTOR

SIGNAL HEADS OUTBOARD & FAR LEFT		SIGNAL HEADS INBOARD & SIDEMOUNT		PEDESTRIAN HEADS		PUSH BUTTON	
BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	PUSH BUTTON STATION
RED	RED	RED	RED	RED	DON'T WALK	RED	PUSH BUTTON
BLACK	YELLOW	BLACK	YELLOW	GREEN	WALK	WHITE	P.B. COM.
GREEN	GREEN	GREEN	GREEN	WHITE	PED. COM.	GREEN	SPARE
ORANGE	YELLOW ARROW	WHITE	VEH. COM.	BLACK	SPARE	BLACK	SPARE
BLUE	GREEN ARROW						
WHITE	VEH. COM.						
WHT/BLK TR	VEH. COM.						

THE CABLE SHALL BE TAGGED AS TO AS PHASED.

CONDUCTOR SCHEDULE

CONDUIT RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CONDUIT SIZE IN INCHES		2 1/2	2 1/2	3	3	3	3	3	3	3	3	3	3	3	3	3	4-1 1/2	3
AWG	CIRCUIT	NUMBER OF WIRES																
		NO. OF CABLES		NO. OF CONDUCTORS														
IMSAs *	IMSAs CABLE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	SIGNAL Ø 1	2	2															
	SIGNAL Ø 2	3	3	3	3													
	SIGNAL Ø 3	2	2	2														
	SIGNAL Ø 4	3	3	3	3													
	SIGNAL Ø 5	2	2	2	2													
	SIGNAL Ø 6	3	3															
	SIGNAL Ø 7	2	2	2	2													
	SIGNAL Ø 8	3	3	3														
	SIGNAL COMMON																	
PED. SIGNAL Ø 2	2	2	2	2														
PED. SIGNAL Ø 4	2																	
PED. SIGNAL Ø 6	2	2	2															
PED. SIGNAL Ø 8	2	2	2	2														
PED. SIGNAL COMMON																		
PED. P.B. Ø 2	1	1	1	1														
PED. P.B. Ø 4	1																	
PED. P.B. Ø 6	1	1	1															
PED. P.B. Ø 8	1	1	1	1														
PED. P.B. COMMON																		
SPARES																		
VIDEO DETECTION																		
SERVICE 120V/240V																		
# 10 LIGHTING 240V																		
# 12 ISNS 120V																		
# 8 INSULATED BOND (GREEN)																		
# 8 SIGNAL /NEUTRAL (WHITE)																		
▲ EMERGENCY VEHICLE PRE-EMPTION (EVD)																		

- ▲ 3-M OPTICOM MODEL 138 DETECTOR CABLE OR APPROVED EQUAL.
 - VIDEO DETECTION COMMUNICATION CABLE SHALL BE MANUFACTURER APPROVED.
 - * THE IMSAs 20-CONDUCTOR, 7-CONDUCTOR AND 4-CONDUCTOR CABLES SHALL BE #14 AWG IMSAs 19-1.
 - ◇ TRENCH AND CONDUIT BY CONTRACTOR PER APS REQUIREMENTS. SERVICE CONDUCTORS BY APS.
- THE INSULATED BOND SHALL HAVE THE INSULATION STRIPPED INSIDE THE PULL BOXES. A CRIMP CONNECTION SHALL BE USED FOR SPLICING IN PULL BOX.
- PROVIDE REQUIRED 7 CONDUCTOR IMSAs CABLES TO APPROPRIATE SIGNAL HEADS FOR FUTURE PHASE OPERATION.



IMSAs CABLE 19-1, #14 AWG, 20 CONDUCTOR

CABLE #1	CABLE #2	CONDUCTOR COLOR		SIGNAL INTERVAL
		BASIC COLOR	TRACER STRIPE	
Ø1	Ø5 OR OVERLAP A	RED	WHITE	RED
		BLACK	WHITE	YELLOW
		GREEN	WHITE	GREEN
Ø2	Ø6 OR OVERLAP B	RED	---	RED
		ORANGE	---	YELLOW
		GREEN	---	GREEN
Ø3	Ø7 OR OVERLAP C	BLACK	RED	RED
		ORANGE	RED	YELLOW
		BLUE	RED	GREEN
Ø4	Ø8 OR OVERLAP D	RED	BLACK	RED
		ORANGE	BLACK	YELLOW
		GREEN	BLACK	GREEN
Ø2 PED.	Ø6 PED.	BLUE	---	WALK
		BLACK	---	DON'T WALK
		WHITE	BLACK	PUSH BUTTON
Ø4 PED.	Ø8 PED.	BLUE	WHITE	WALK
		RED	GREEN	DON'T WALK
		WHITE	RED	PUSH BUTTON
ALL PHASES	ALL PHASES	WHITE	---	P.B. COMMON
		BLUE	BLACK	SPARE

CABLE #2 SHALL BE MARKED WITH 2 INDIVIDUAL 3/8 INCH WIDE STAINLESS STEEL BANDS, SIDE BY SIDE WITH A 1/2 INCH GAP BETWEEN BANDS, AT EACH PULL BOX LOCATION. INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

amec
 AMEC Infrastructure, Inc.
 2001 WEST CAMELBACK ROAD, SUITE 300
 PHOENIX, ARIZONA 85015
 PHONE (602) 343-2400
 FAX (602) 343-2499

POLE AND CONDUCTOR SCHEDULE
 PROJECT: JOMAX ROAD and LAKE PLEASANT PARKWAY PEORIA ARIZONA
 DESIGNER: KAC
 DRAWN BY: SWA
 Kimball Ance
 Registered Professional Engineer
 34570 KIMBERLY CARROLL
 ARIZONA, U.S.A.
 EXPIRES: 3/31/2009

PROJECT NO. 04-2007-007
TS02
 SHEET NO. 4 of 6
 FINAL SUBMITTAL 06/2008

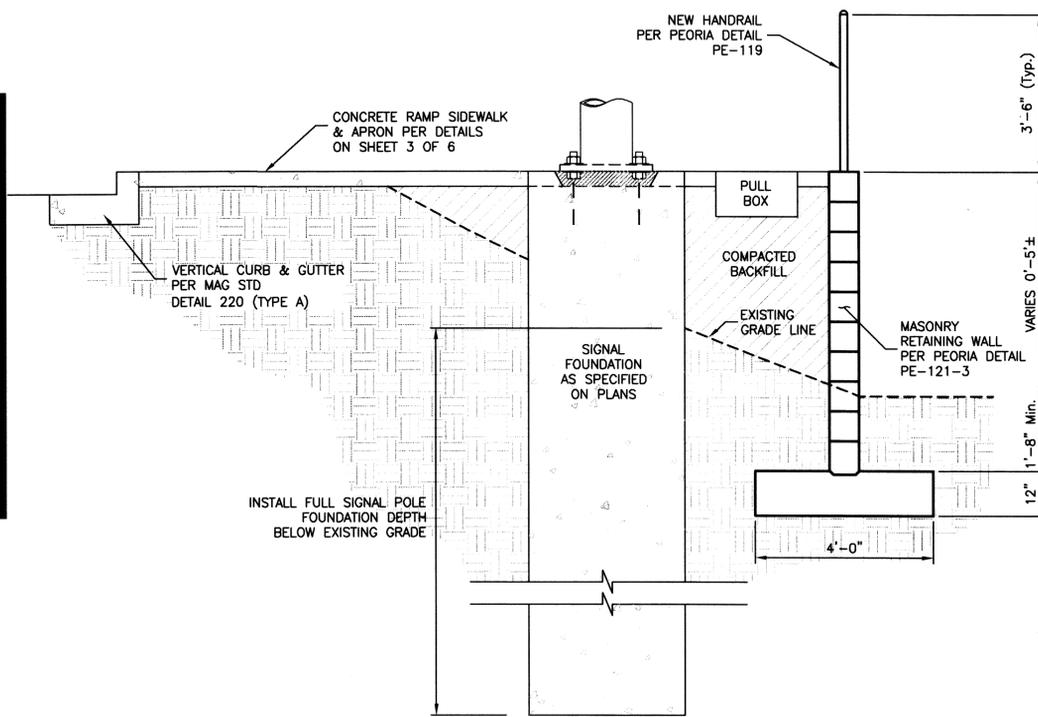
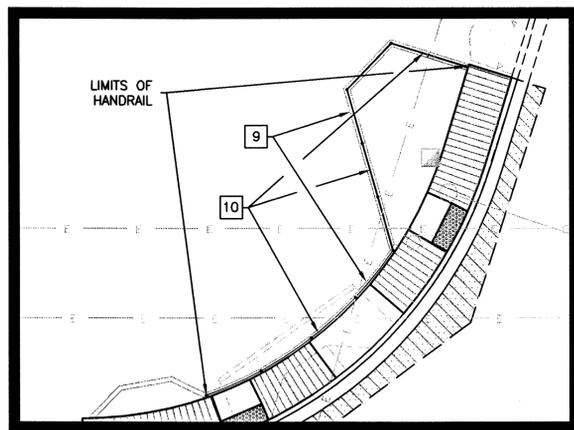
REMOVAL/INSTALLATION NOTES:

- 2 INSTALL SIDEWALK RAMP PER ADOT STD DTL C-05.30. SEE NOTE 1.
- 3 INSTALL CONCRETE SIDEWALK PER MAG STD DTL 230
- 4 INSTALL TRAFFIC SIGNAL CONCRETE APRON PER DTL SHOWN ON SHEET 2.
- 5 INSTALL CONCRETE "COURTESY" PAD SHOWN ON SHEET 3 PER DETAIL SHOWN ON SHEET 2.
- 6 INSTALL CONCRETE VERTICAL CURB & GUTTER PER MAG STD DETAIL 220 (TYPE A).
- 7 EXISTING WATER VALVE - ADJUSTMENT.
- 8 EXISTING WATER VALVE - PROTECT IN PLACE.
- 9 INSTALL RETAINING WALL PER DETAIL SHOWN ON THIS SHEET.
- 10 INSTALL METAL HANDRAIL PER PEORIA STD DET PE-119.

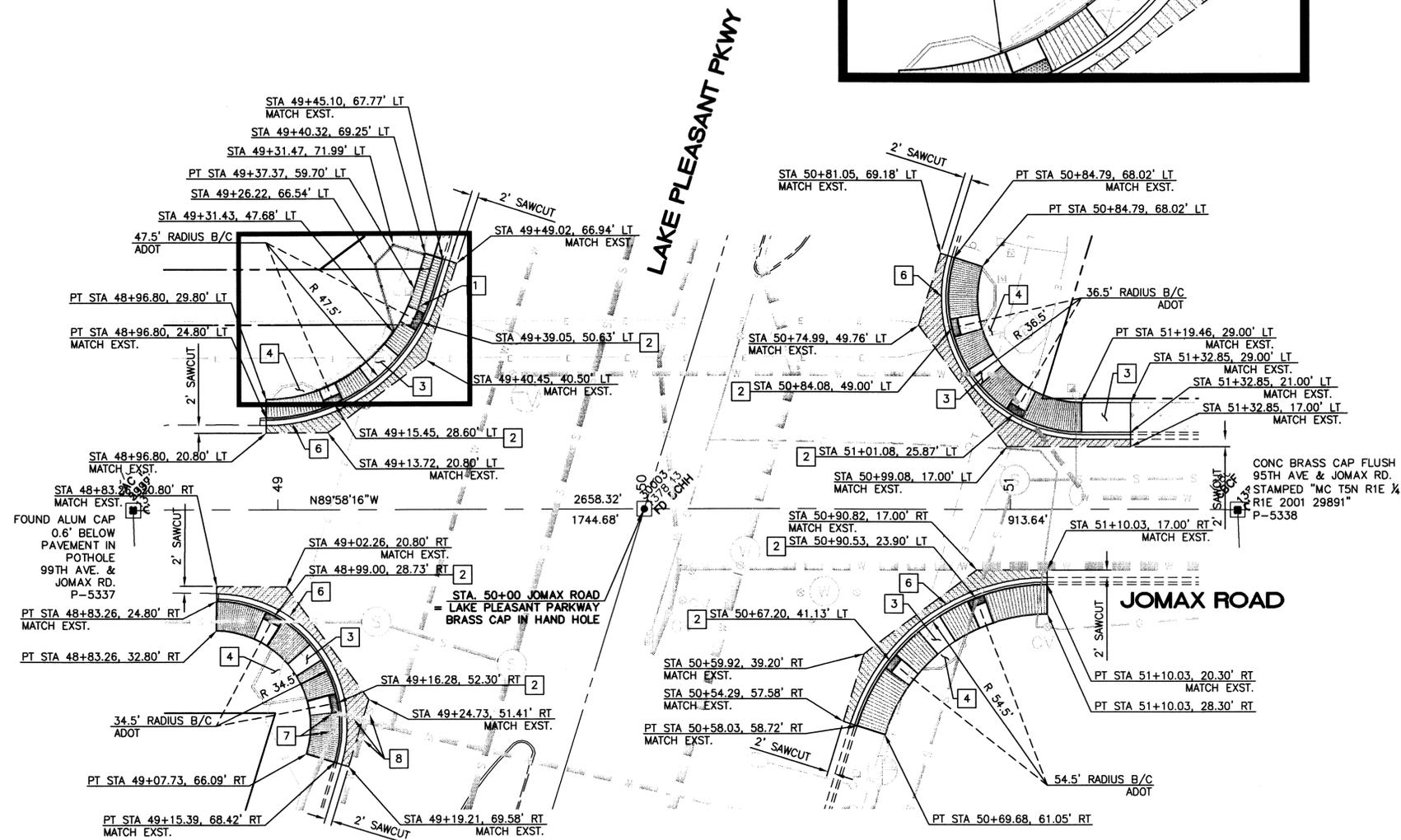
QTY

- 8 EA
- 808 SF
- QUANTITY INCLUDED IN ITEM 3
- QUANTITY INCLUDED IN ITEM 3
- 290 LF
- 2 EA
- 3 EA
- 1 LS
- 64 LF

HANDRAIL DETAIL - NWC



NORTHEAST CORNER
RETAINING WALL AND HANDRAIL DETAIL



SIDEWALK RAMP NOTES:

1. RAMPS TO BE CONSTRUCTED, MEASURED AND PAID FOR IN ACCORDANCE WITH ADOT STD DETAIL C-05.30 AND THE DETAIL ON THIS SHEET.
2. SAWCUT, REMOVAL OF EXISTING ASPHALT, AND INSTALLATION OF NEW ASPHALT SHALL BE INCLUDED IN THE COST FOR CONSTRUCTING SIDEWALK RAMPS.
3. PRIOR TO SAWCUT & REMOVAL OF EXISTING CURB, GUTTER, SIDEWALK RAMPS, THE CONTRACTOR SHALL SURVEY EXISTING LIP OF GUTTER FOR ELEVATION. NEW LIP OF GUTTER SHALL MATCH EXISTING ELEVATION. COST ASSOCIATED WITH THIS ITEM, SHALL BE INCLUDED IN THE COST TO CONSTRUCT SIDEWALK RAMPS.
4. NEW ASPHALT SHALL MATCH EXISTING PAVEMENT STRUCTURAL SECTION.

HANDRAIL NOTES:

1. HANDRAIL SHALL BE CONSTRUCTED ON NORTHWEST CORNER SHOWN IN THE HANDRAIL PLAN VIEW.
2. RETAINING WALL SHALL BE CONSTRUCTED PER PEORIA PE-121-3. WALL HEIGHT VARIES.
3. RETAINING WALL WILL BE MEASURED AS LUMPSUM ITEM INCLUDING ALL MATERIALS (INCLUDING MASONRY WALL, BACKFILL, REBAR & CONCRETE) LABOR, AND EQUIPMENT NECESSARY TO CONSTRUCT WALL, COMPLETE IN PLACE.
4. ALL IMSA CONDUCTORS SHALL BE INSTALLED WITHOUT SPLICING FROM THE SIGNAL HEAD TO THE PULL BOXES. TS BLOCKS SHALL NOT BE USED AS A CONNECTION POINT BETWEEN THE PULL BOX AND THE VEHICLE OR PEDESTRIAN INDICATIONS.

NOTE:
ALL STATIONS AND OFFSETS ARE MEASURED OFF OF JOMAX ROAD CENTERLINE STATIONING.

REVISIONS:



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SIDEWALK RAMP & RETAINING WALL
DETAILS

JOMAX ROAD and
LAKE PLEASANT PARKWAY
PEORIA ARIZONA

DESIGNER: KAC
 DRAWN BY: SWA



PROJECT NO.
04-2007-007

DT01

SHEET NO.
6
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