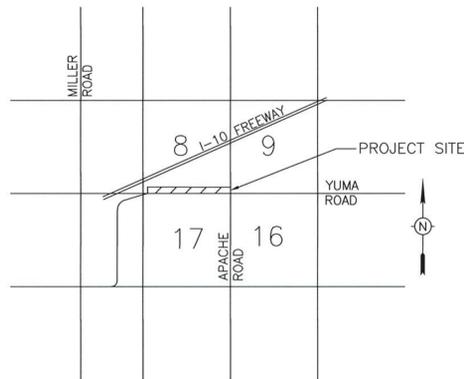


VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

FEMA FLOOD ZONE INFORMATION

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEV. (IN AO ZONE USE DEPTH)
04013C	2115	L	2013-10-16	X	N/A

GENERAL PERMITTING NOTES

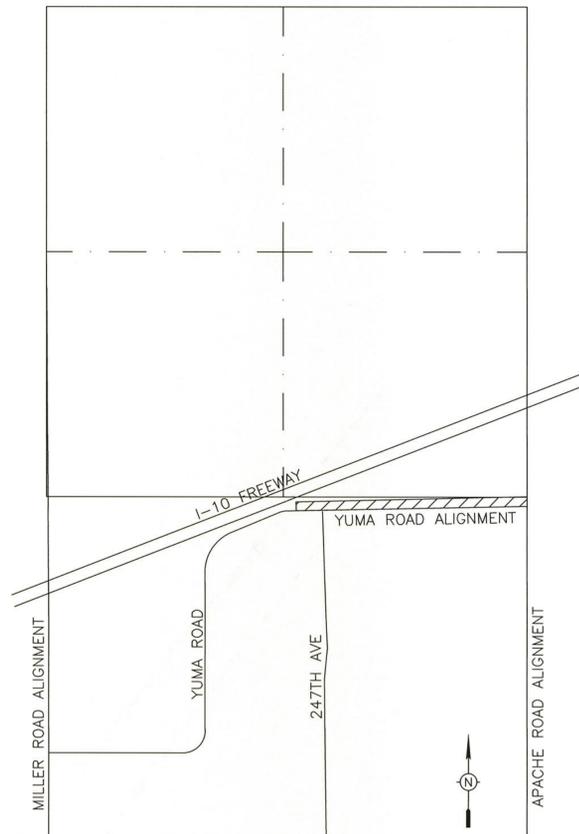
- ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF BUCKEYE DESIGN STANDARDS. IF THERE IS A CONFLICT, THE CITY OF BUCKEYE STANDARDS WILL GOVERN.
- THE APPROVAL OF THE PLANS IS VALID FOR ONE (1) YEAR FROM THE DATE OF THE CITY ENGINEER'S SIGNATURE. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN ONE (1) YEAR, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
- A CITY OF BUCKEYE INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF BUCKEYE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY THE CITY 24 HOURS PRIOR TO THE INSPECTION BY CALLING (623) 349-6248.
- CITY PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. A CITY PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER ALL FEES HAVE BEEN PAID AND THE PERMIT HAS AN APPROVED MARICOPA COUNTY ENVIRONMENTAL SERVICES DUST PERMIT AND AN APPROVED STORM WATER POLLUTION PREVENTION PLAN ATTACHED. THE SWPPP SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- COPIES OF ALL PERMITS AND MOST RECENT APPROVED PLANS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS AND PLANS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL PROPER PERMIT DOCUMENTATION AND/OR PLANS ARE OBTAINED. ALL OF THESE REQUIREMENTS APPLY TO ONSITE GRADING AND IMPROVEMENT PLANS.

UTILITY COMPANIES DATE SUBMITTED

UTILITY COMPANIES	DATE SUBMITTED
ELECTRIC	ARZONA PUBLIC SERVICE 5/8/14
TELEPHONE	CENTURYLINK COMMUNICATIONS 5/8/14
CATV	COX COMMUNICATIONS 5/8/14
GAS	SOUTHWEST GAS 5/8/14

STREET LIGHT PLANS FOR TOM JONES FORD

A PORTION OF THE SOUTHEAST QUARTER AND SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 1 NORTH, RANGE 3 WEST OF GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA



OVERALL DEVELOPMENT
NOT TO SCALE

STREET LIGHTING SCHEDULE

KEY NO.	SYMBOL	STREET TYPE	OFFSET	QTY	POLE		MAST ARM	LUMINAIRE							APS STANDARD CODE NO.
					POLE HEIGHT	FOUNDATION		SIZE	MOUNTING HEIGHT	LUMENS	WATTAGE	I.E.S. DIST.	VOLTAGE	TYPE	
③	□—	ARTERIAL	*	9	32'-0"	CONCRETE	8'X8'	40'-0"	30,000	250W	TYPE III	**	HPS	ARCHITECTURAL (SHOEBOX)	8050.58AH

* SEE PLAN SHEETS FOR OFFSETS
** VOLTAGE PER POWER COMPANY DESIGN

OWNER & DEVELOPER

JONES BROTHERS INVESTMENTS, LLC
CONTACT: RONALD JONES
23454 W. HIGHWAY 85
BUCKEYE, AZ 85326
PHONE:

CIVIL ENGINEER

COMPANY: KIMLEY-HORN & ASSOCIATES, INC.
CONTACT: STERLING MARGETTS
1855 W. BASELINE ROAD STE 200
MESA, AZ 85202
PHONE: (480) 207-2680

ELECTRICAL ENGINEER

COMPANY: WRIGHT ENGINEERING
CONTACT: AARON KUTCHINSKY
ADDRESS: 165 E CHILTON DRIVE
CHANDLER, AZ 85225
PHONE: (480) 497-5829
FAX: (480) 497-5807

SHEET INDEX

SHEET SL1 STREET LIGHT COVER SHEET
SHEET SL2 NOTES & VICINITY MAP
SHEET SL3 STREET LIGHT DESIGN
SHEET SL4 STREET DETAILS
SHEET SL5 PHOTOMETRICS

BASIS OF BEARING

PER SURVEY INNOVATION GROUP, THE BASIS OF BEARING IS THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 8, TOWNSHIP 1 NORTH, RANGE 3 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN. SAID LINE BEARS N89°48'02"E.

BENCH MARK

PER SURVEY INNOVATION GROUP, THE BENCHMARK IS A MARICOPA COUNTY ALUMINUM CAP STAMPED "T1N R3W S8 S17 14 2002 29891" NORTH QUARTER CORNER SECTION 17, T1N, R3W

ELEVATION=1090.885 NAVD 88

APPROVAL

DISCLAIMER:

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS AND OMISSIONS.

BY: *Aaron Margetts* 12.3.14
CITY OF BUCKEYE ENGINEER DATE

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS - BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ARIZONA REGISTERED LAND SURVEYOR DATE

ARIZONA REGISTRATION NUMBER

TELEPHONE NUMBER

MANAGING ENGINEER / SURVEYOR
WRIGHT ENGINEERING CORPORATION
165 E CHILTON DRIVE
CHANDLER, AZ 85225
(480) 497-5829

PROJECT COORDINATOR
AARON KUTCHINSKY

STREET LIGHT PLANS

ENGINEER INFORMATION

WRIGHT engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengr.com WRIGHT PROJECT # 14027

PLAN TYPE

ENGINEERING / SURVEYOR

DESIGN LAYOUT SLG

CHECKED ADK

DRAFTED SLG

FIELD SURVEY

DRAWING SCALES
SEE PLANS

TOM JONES FORD
I-10 & YUMA ROAD
BUCKEYE, ARIZONA

COB PROJECT PLAN STICKER

ENG-14-00213
Tom Jones Ford Dealership
Street Light Plans
2R - FOR SIGNATURE

REVISIONS:

1

2

3

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

APPROVED
DEC 03 2014
CITY OF BUCKEYE
ENGINEERING

AS-BUILT SEAL

DESIGN SEAL

Professional Engineer Seal
40256
AARON D. KUTCHINSKY
Expires 12-31-15

RECEIVED
NOV 10 2014
CITY OF BUCKEYE by
ENGINEERING

ORIGINAL PLAN DATE
MAY 2014

LATEST REVISION DATE

PROJECT NUMBER
14027

SHEET NUMBER
SL1 OF 5

COB PLAN TRACKING #
ENB-14-00213

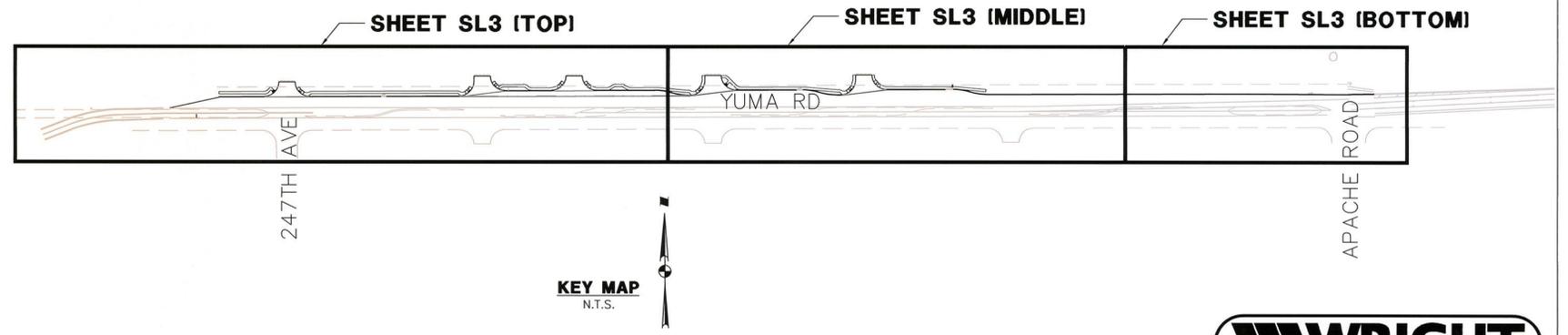
3rd Submittal

ENGINEER COPY

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES

1. CITY OF BUCKEYE BUILDING DEPARTMENT SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY ON-SITE OR OFF SITE CONSTRUCTION. PHONE 623-349-6248 FOR THE HOTLINE. ALL OTHERS FAX THE INSPECTION REQUEST FORM. TO 623-349-6221, OR USE THE WEB BASED PERMIT PORTHOLE ACCESS TO SCHEDULE AN INSPECTION (WWW.BUCKEYEAZ.GOV).
2. ALL WORK AND MATERIALS MUST CONFORM WITH THE SPECIFICATIONS, THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) AND AS AMENDED BY THE CITY OF BUCKEYE (COB).
3. A PERMIT IS REQUIRED FROM THE COB FOR ALL CONSTRUCTION WITHIN THE RIGHTS-OF-WAY (ROW).
4. THE CONTRACTOR WILL EXPOSE ALL EXISTING UTILITY LINES BEING TIED IN TO VERIFY THEIR LOCATION.
5. THE CONTRACTOR WILL LOCATE, OR HAVE LOCATED, ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINE, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO CALL BLUE STAKE PRIOR TO STARTING ANY CONSTRUCTION. NO WORK SHALL BEGIN UNTIL BLUE STAKE IS COMPLETED. BLUE STAKE TELEPHONE NUMBER 602-263-1100 OR 1-800-STAKE-IT.
7. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO STARTING ANY WORK OR NEW PHASE OF WORK. THE CONTRACTOR, KEY SUB-CONTRACTORS, COB INSPECTOR AND REPRESENTATIVE OF THE CITY ENGINEER SHALL ATTEND THIS MEETING.
8. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COB AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. DISPOSAL OF EXCESS MATERIAL WITHOUT A PERMIT WITHIN THE COB LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL OR STOCKPILING OF MATERIALS WITHIN A RESIDENTIAL AREA. STOCKPILING OF EXCAVATED MATERIAL SHALL NOT EXCEED A HEIGHT OF 6 FEET ABOVE THE NATURAL GROUND ELEVATION. THE SLOPES ON ALL SIDES OF THE STOCKPILED EXCAVATED MATERIAL SHALL NOT EXCEED A 4:1 RATIO OF LENGTH TO HEIGHT.
10. EXCAVATION CONTRACTORS MUST IDENTIFY LOCATION FOR DISPOSING OF EXCESS EXCAVATION MATERIAL ALONG WITH A LETTER FROM THE AND OWNER, GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ANY CONSTRUCTION.
11. TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF PHOENIX BARRICADING MANUAL, MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION, MAG. UNIFORM STANDARD DETAIL 401, AND COB REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND BARRICADE PLAN TO THE COB FOR APPROVAL WHERE THE CONSTRUCTION OF THE NEW IMPROVEMENTS ARE ADJACENT TO OR CONNECTING TO ANY EXISTING ROADWAY OR PEDESTRIAN FACILITIES. THE TRAFFIC CONTROL PLAN AND BARRICADE PLAN SHALL BE APPROVED BEFORE A PERMIT FOR THE WORK WILL BE ISSUED. THE CONTRACTOR SHALL INSTALL APPROVED BARRICADING AND TRAFFIC CONTROL AS APPROVED BY THE COB, BEFORE WORK CAN TAKE PLACE. ALL OVERNIGHT BARRICADES SHALL BE LIT AND FUNCTIONING.
12. A HAUL PLAN FOR MATERIAL IMPORT OR EXPORT SHALL BE REQUIRED FOR COB REVIEW AND APPROVAL PRIOR TO THE START OF HAULING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC. THIS WORK INCLUDES STREET SWEEPING, POWER BROOM AND WATER AS NEEDED OR DIRECTED BY THE COB.
13. ENVIRONMENTAL REQUIREMENTS
 - A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL RELATED TO THE PROJECT CONSTRUCTION AND SHALL TAKE WHATEVER MEANS NECESSARY TO CONTROL ANY ABNORMAL CONDITIONS.
 - B. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
 - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC.
 - D. TEMPORARY DRAINAGE CONTROL MEASURES MAY BE REQUIRED DURING AND AFTER CONSTRUCTION UNTIL FINAL PROJECT BUILD-OUT IN ACCORDANCE WITH THE APPROVED PLANS AND IN ACCORDANCE WITH ANY ESTABLISHED OR REQUIRED BEST MANAGEMENT PRACTICES (BMP) AS PART OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS.
 - E. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL AIR QUALITY PERMITS.
 - F. THE CONTRACTOR SHALL SUBMIT TO THE COB A COPY OF THEIR APPROVED COUNTY (AIR QUALITY) DUST CONTROL PLAN, EROSION CONTROL PLAN (SWPPP), AND PERMIT PRIOR TO THE START OF WORK.
14. STREET CUTS: APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. THE PAVEMENT REPLACEMENT SECTION FOR ALL LONGITUDINAL AND TRANSVERSE TRENCHES LOCATED IN AN EXISTING PAVED STREET SHALL BE CONSTRUCTED IN ACCORDANCE MAG. UNIFORM STANDARD DETAIL NO. 200 "T-TOP, BACKFILL, PAVEMENT SURFACE REPLACEMENT, MODIFIED AS FOLLOWS: THE WIDTH OF THE REPLACED PAVEMENT SECTION EXTEND 1 FOOT BEYOND THE TRENCH SIDE EDGE LINE, ON EITHER SIDE OF THE TRENCH. THE DEPTH OF THE PERMANENT SURFACE REPLACEMENT SHALL BE A MINIMUM OF 3 INCHES OR MATCH THE EXISTING THICKNESS OF THE PAVEMENT, WHICHEVER IS GREATER. SAWCUT OR CONSTRUCTION JOINTS SHALL BE ADEQUATELY TACK OILED WITH A MINIMUM OF 95% COVERAGE. ASPHALT MATERIAL SHALL BE A COB APPROVED MIX DESIGN WITH COMPACTED LIFTS NO GREATER THAN 3 INCHES. SLURRY BACK-FILLED OR OPEN TRENCHES IN EXISTING ROADWAYS MUST BE PROPERLY STEEL PLATED AND BARRICADED OVER NIGHT STEEL PLATES TO BE MILLED FLUSH WITH ROADWAY SURFACE PER NOTE 24. "COLDMIX" TEMPORARY ASPHALT PATCHES MUST BE REPLACED AS SOON AS POSSIBLE AND CANNOT REMAIN FOR MORE THAN 5 DAYS TIME OR AS REQUIRED BY THE COB. DURING THE 5 DAY PERIOD THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PATCH TO WITHIN MAG STD SPEC 321.5.3. ASPHALT IN PLACE FOR LESS THAN 5 YEARS SHALL BE MILLED AND OVERLAYED A MINIMUM OF 20 FEET PAST TRENCH WALLS, AND IN THE CASE OF MULTIPLE STREET CUTS, THE CONTINUOUS MILL AND OVERLAY SHALL EXTEND A MINIMUM OF 20- FEET PAST END OF THE FURTHEST TRENCH WALLS.
15. POTHOLING: NO POTHOLING SHALL BE DONE ON ANY STREET NEWER THAN 2 YEARS OLD. ALL POTHOLING IN EXISTING STREETS SHALL BE DONE USING WATER/AIR/VACUUM TYPE METHOD. POT HOLE SIZE SHALL BE LIMITED TO A 12 INCH BY 12 INCH SQUARE HOLE. REMOVAL MATERIAL CANNOT BE USED FOR BACK FILL. THE CONTRACTOR SHALL USE SLURRY PER MAG SEC. 728. PAVEMENT REPLACEMENT SHALL BE BY APPROVED HOT MIX ASPHALT ONLY. A 3 FOOT BY 3 FOOT PAVEMENT SLURRY SEAL SHALL BE APPLIED AFTER THE ASPHALT IS PLACED.
16. AN APPROVED, UP-TO-DATE SET OF PLANS AND A RIGHT-OF-WAY PERMIT SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WHILE WORK IS IN PROGRESS. IF THE PLANS AND PERMITS ARE NOT ON SITE, THE WORK SHALL BE STOPPED UNTIL THE APPROVED PLANS ARE PROVIDED DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT THE COB'S APPROVAL.
17. DAMAGE TO ANY AND ALL ITEMS CAUSED BY CONSTRUCTION OR CONSTRUCTION RELATED WORK SHALL BE REPLACED OR REPAIRED TO THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
18. ALL PARCEL CONSTRUCTION ACCESS LOCATIONS ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE ACCESS ROADS INSIDE AND THROUGHOUT THE PARCEL ALLOWING FOR INSPECTION ACCESSIBILITY. THIS INCLUDES GRADING, GRAVEL FILL AND/OR TRENCH PLATES AS REQUIRED.
19. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COB AND THE COB CONSULTANTS 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 COB.
20. THE COB SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONNECTION WITH THE WORK. THE COB WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS COMPLYING WITH MAG OR COB REQUIREMENTS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CERTIFIED AS-BUILT RECORD DOCUMENTS TO THE COB FOR REVIEW AND APPROVAL. NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL "AS-BUILT" PLANS CERTIFIED BY THE PROJECT ENGINEER/LAND SURVEYOR HAVE BEEN SUBMITTED AND ACCEPTED BY THE COB. FINAL CONSTRUCTION ACCEPTANCE OR THE RELEASE OF CERTIFICATE OF OCCUPANCIES SHALL NOT BE ISSUED UNTIL ALL AS-BUILT DRAWINGS AND OTHER REQUIRED DOCUMENTS PER THE COB'S FINAL PROJECT SUBMITTAL CHECKLIST, HAVE BEEN REVIEWED AND APPROVED BY THE CITY ENGINEER.
22. ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING THE WATER RESOURCE DEPARTMENT AT (623) 349-6800.
23. THE COB IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR RELOCATION OF UTILITIES.
24. ALL CONTRACTORS SHALL CONTRACT FOR TRASH PICKUP THROUGH A LICENSED CITY OF BUCKEYE SOLID WASTE HAULER(602-237-2078) AND DISPOSED OF AT THE SOUTHWEST REGIONAL LANDFILL IN BUCKEYE.
25. OPEN TRENCHES ACROSS DRIVEWAYS, STREETS AND CROSS-STREETS SHALL BE PLATED FOR OVERNIGHT, WEEKEND OR EXTENDED PERIODS, PER MAG. UNIFORM STANDARD DETAIL.
26. ALL ABC SHALL BE FROM AN ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) APPROVED SOURCE LIST.
27. LONGITUDINAL TRENCH BACKFILL IN EXISTING ARTERIAL, COLLECTOR, OR LOCAL ROADWAYS OR ADJACENT TO EXISTING ROADWAY (WHEN THE TRENCH EXCAVATION FALLS WITHIN 2 FEET OF EDGE OF PAVEMENT) SHALL REQUIRE 1/2 SACK CLSM PER MAG SPEC 728 FULL DEPTH OR ABC FULL DEPTH AS DIRECTED BY THE COB. ABC BACKFILL COMPACTION SHALL BE BY AN APPROVED MECHANICAL METHOD (NO WATER SETTLING) WITH BACKFILL MATERIALS AS FOLLOWS:
 - 12 INCH LIFTS (LOOSE) TO BE USED IN THE TOP 4 FEET OF THE TRENCH
 - 24 INCH LIFTS (LOOSE) TO BE USED FROM 1 FOOT OVER THE PIPE TO 4 FEET FROM THE TOP OF THE TRENCH PER MAG SEC. 601.4.
28. ALL BACKFILL WITHIN OR ADJACENT TO EXISTING ROADWAYS SHALL BE MECHANICALLY COMPACTED.
29. TRANSVERSE TRENCH BACKFILL IN ALL EXISTING ROADWAYS SHALL REQUIRE 100% FULL DEPTH HALF SACK CLSM PER MAG SPEC 728.
30. ALL MATERIAL SUBMITTALS INCORPORATED IN THE PROJECT SHALL BE SUBMITTED AT OR BEFORE THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL BY THE CITY ENGINEER



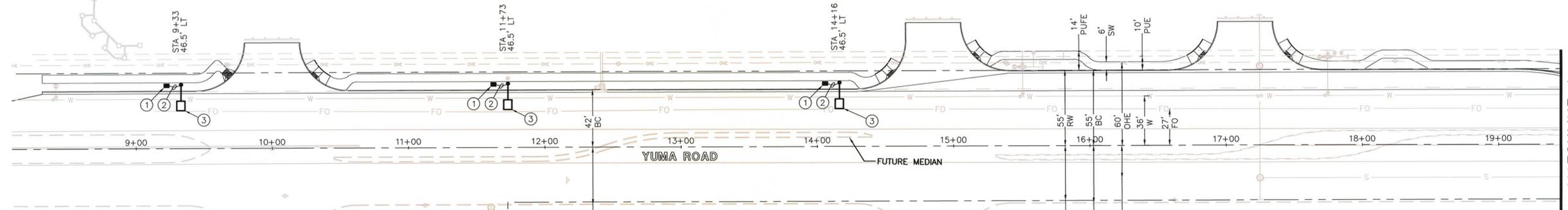
TOM JONES FORD STREET LIGHT PLANS

- REVISIONS:
- 1
 - 2
 - 3

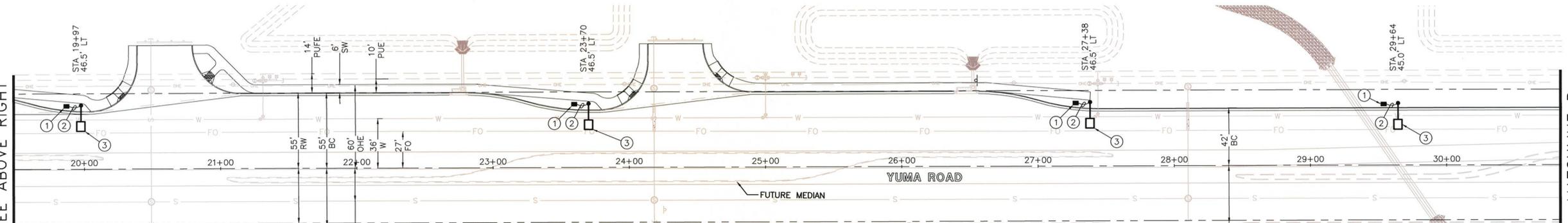
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL
<p>APPROVED DEC 03 2014 CITY OF BUCKEYE ENGINEERING</p>		
AS-BUILT SEAL	DESIGN SEAL	COB PLAN TRACKING #
ORIGINAL PLAN DATE	LATEST REVISION DATE	COB PERMIT #
MAY 2014		
PROJECT NUMBER	SHEET NUMBER	
14027	SL2 OF 5	

FOR STREETLIGHT NOTES REFER TO CITY OF BUCKEYE DETAILS 72100-1 AND 72100-2.
www.buckeyeaz.gov/documentcenter/view/9178

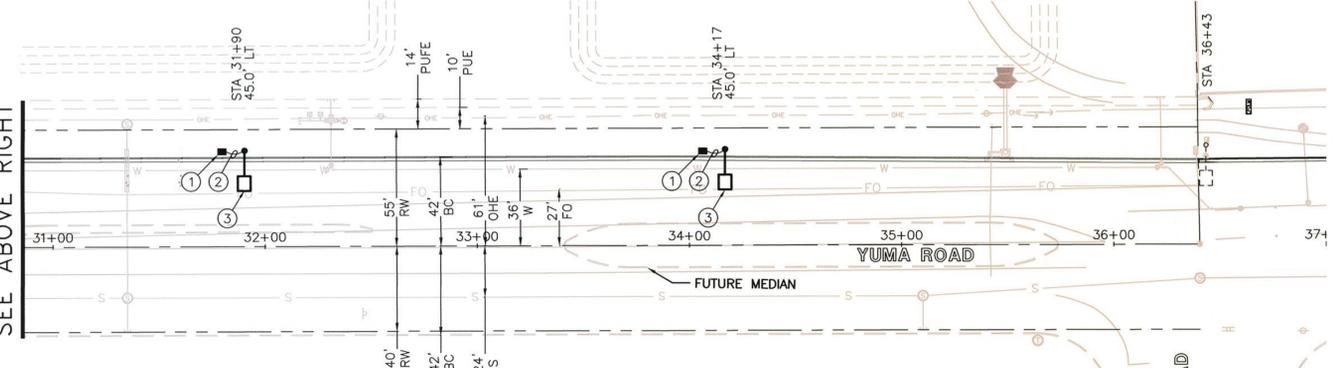




MATCHLINE A
SEE BELOW LEFT



MATCHLINE B
SEE BELOW LEFT



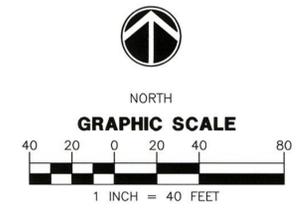
SPECIAL NOTE:
DUE TO OVERHEAD ELECTRIC CONFLICTS ON THE NORTH SIDE OF YUMA ROAD, THE STREET LIGHTING IS DESIGNED AT A REDUCED LEVEL AND DOES NOT MEET CITY OF BUCKEYE LIGHTING LEVEL REQUIREMENTS. THE LIGHTING DESIGN SHOWN REPRESENTS A TEMPORARY CONDITION. ONCE MEDIAN IS CONSTRUCTED, ALL STREET LIGHTING WILL BE LOCATED IN THE MEDIAN.

CONSTRUCTION NOTES

- ① INSTALL APS PULL BOX NEXT TO THE POLE PER APS DETAILS AND SPECIFICATIONS.
- ② 2" CONDUIT WITH (2) #14 TYPE THHN/THWN AND (1) #14 BARE BOND FROM PULL BOX TO FUSE HOLDER IN STREET LIGHT PER APS DETAILS AND SPECIFICATIONS.
- ③ INSTALL ONE 250W HPS (30,000 LUMEN) FIXTURE (LIGHT CODE AH) WITH PHOTOELECTRIC CONTROL ON A 32'-0" FLUSH MOUNTED PEDESTAL POLE (1946S32) WITH 8'X8" MAST ARM (S8) PER APS DETAIL 8050S (SEE SHEET SL4). INSTALL (2) #14 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. ALL WIRING, FUSING, FOUNDATION AND GROUNDING PER APS DETAILS AND SPECIFICATIONS. POLE AND MAST ARMS ARE TO MAINTAIN ALL REQUIRED OSHA & NESC MINIMUM CLEARANCES DURING AND AFTER CONSTRUCTION. DUE TO FIELD CONDITIONS, SLIGHT ADJUSTMENTS IN POLE OFFSET MAY BE NECESSARY TO MAINTAIN MINIMUM CLEARANCES. NOTIFY ENGINEER IMMEDIATELY FOR ANY DEVIATIONS.

LEGEND

- 250W HPS SHOEBOX STREETLIGHT WITH A 40'-0" MOUNTING HEIGHT
- EXISTING STREET LIGHT
- NEW CONDUIT RUN
- PULL BOX



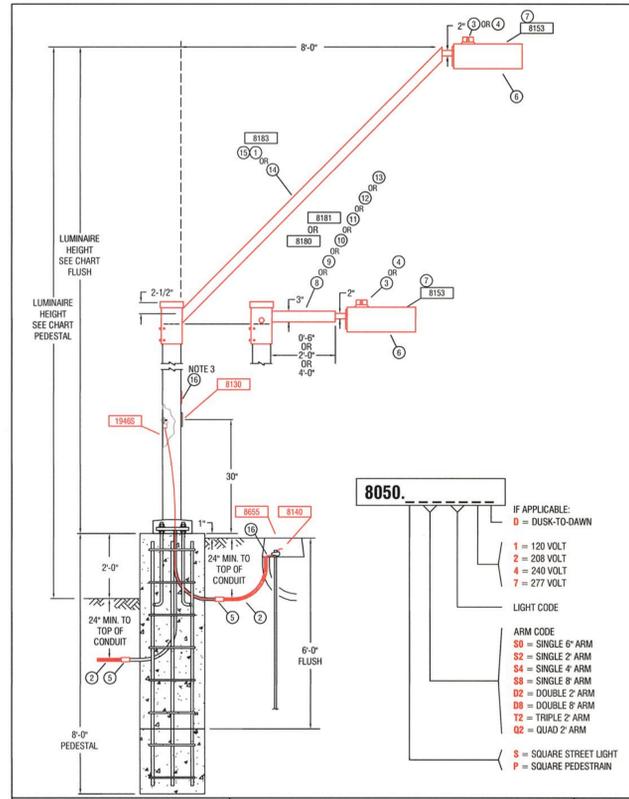
WRIGHT
engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengr.com WRIGHT PROJECT # 14027

**TOM JONES FORD
STREET LIGHT PLANS**

REVISIONS:

- ①
- ②
- ③

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL
	<p>APPROVED</p> <p>DEC 03 2014</p> <p>CITY OF BUCKEYE ENGINEERING</p>	
AS-BUILT SEAL	DESIGN SEAL	COB PLAN TRACKING #
ORIGINAL PLAN DATE	LATEST REVISION DATE	COB PERMIT #
MAY 2014		
PROJECT NUMBER	SHEET NUMBER	
14027	SL3 OF 5	



LIGHT CODE	APN	WATTS	TYPE	VOLTS	INITIAL LUMENS	MOUNTING HEIGHT
AD	99450	100		120/208/240/277	3500	
AF	99451	150		120/208/240/277	16000	
AH	99452	250		120/208/240/277	30000	
AJ	99454	400		120/208/240/277	50000	
AL	104442	175		120/208/240/277	14000	SEE CHART
AM	104443	250	MH	120/208/240/277	21000	
AN	104444	400		120/208/240/277	36000	
AO	33806772	55		120/240	8000	
AS	33806774	90		120/240	13500	
AU	33806776	135		120/240	22500	
AW	33806778	180		120/240	33000	

- NOTES:**
- ADJUST PHOTO EYE TO FACE NORTH.
 - A GROUND ROD IS PROVIDED WITH THE J-BOX. WHERE A GROUND ROD CAN NOT BE DRIVEN ALTERNATE GROUND SHALL BE USED. SEE 2449 THRU 2460 FOR APPROVED ALTERNATES.
 - SIGN, "NOTICE THIS POLE IS OWNED AND MAINTAINED BY APS. DISCONNECT INSIDE", IS REQUIRED ON ALL DUSK-TO-DAWN AND AREA LIGHTING APPLICATIONS.
 - POLES THAT HAVE MORE THAN ONE LUMINAIRE, REQUIRE A SEPARATE CIRCUIT WITH FUSING FROM THE J-BOX TO EACH LUMINAIRE.
 - USING THE 20'-0" POLE, TO MATCH THE 16'-0" PEDESTRIAN LIGHT MOUNTING HEIGHT, CUT THE TOP 4'-0" OF THE POLE OFF.
 - THE BROWN PHOTO CONTROL IS A FAIL OFF CONTROL AND SHALL BE USED WITH ALL INDUCTION AND LED LUMINAIRES.
 - THE LUMINAIRES SHOWN ARE RECOMMENDED FOR THIS MOUNTING HEIGHT. SEE 8135 FOR ADDITIONAL BROWN ARCHITECTURAL LUMINAIRES.
 - THE TWO ARMED TENON BRACKET POSITIONS THE DOUBLE ARM 180 DEGREES APART.

ABOVE GROUND MOUNTING HEIGHTS (HT) 2'-0" OR 4'-0" ARM

POLE CODE	FLUSH	2'-0" PEDESTAL
1946S13	13'-0"	15'-0"
1946S15	15'-0"	17'-0"
1946S23	23'-0"	25'-0"
1946S25	25'-0"	27'-0"
1946S28	28'-0"	30'-0"
1946S32	32'-0"	34'-0"

ABOVE GROUND MOUNTING HEIGHTS (HT) 8'-0" HI-RISE

POLE CODE	FLUSH	2'-0" PEDESTAL
1946S13	21'-0"	23'-0"
1946S15	23'-0"	25'-0"
1946S23	31'-0"	33'-0"
1946S25	33'-0"	35'-0"
1946S28	36'-0"	38'-0"
1946S32	40'-0"	42'-0"

MATERIAL LIST

ITEM	QTY	DESCRIPTION	APN
1	1	BRACKET ARCH SLIP BOLTED	00092251
2	5	CONDUIT PLAST FLEX 2"	32900662
3	1	CONTROL PHOTO MULTI BLACK	00063965
4	VAR	CONTROL PHOTO MULTI BR-20	00073241
5	1	COUPLING 2" PVC	32500990
6	1	LAMP - SEE 8164 - 8171	
7	1	LUMINAIRE - SEE CHART	
8	1	MAST ARM STLT 50' SGL	88370
9	1	MAST ARM STLT 3" SDC2 SGL	33701116
10	1	MAST ARM STLT 3" SDC2 DBL	33701117
11	1	MAST ARM STLT 3" SDC2 TPL	00052664
12	1	MAST ARM STLT 3" SDC2 QJAD	00052665
13	1	MAST ARM STLT 3" SDC4 SGL	00061738
14	1	MAST ARM STLT 3" SDC4 SGL	33701120
15	1	MAST ARM STLT 3" SDC4 SGL	00062252
16	1	SING POLE OWNED BY APS	00050092
17	10	WIRE BARE #6 SOLID CU	33007580

ARIZONA PUBLIC SERVICE COMPANY
T&D CONSTRUCTION STANDARDS

SH 1 OF 2
LIGHTS
ARCHITECTURAL LUMINAIRES WITH
2'-0", 4'-0" AND 8'-0" ARMS ON
SQUARE 5" BASE MOUNTED STEEL POLE
8050S

ARIZONA PUBLIC SERVICE COMPANY
T&D CONSTRUCTION STANDARDS

SH 2 OF 2
LIGHTS
ARCHITECTURAL LUMINAIRES WITH
2'-0", 4'-0" AND 8'-0" ARMS ON
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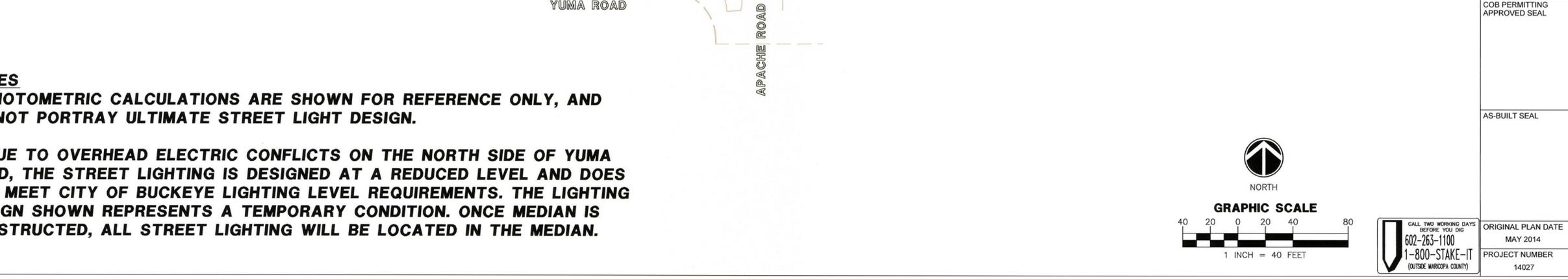
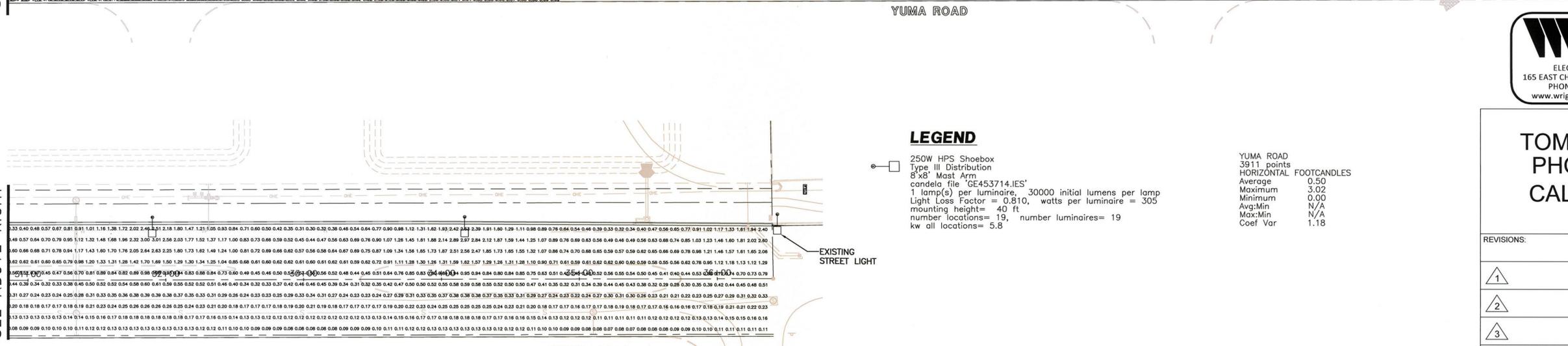
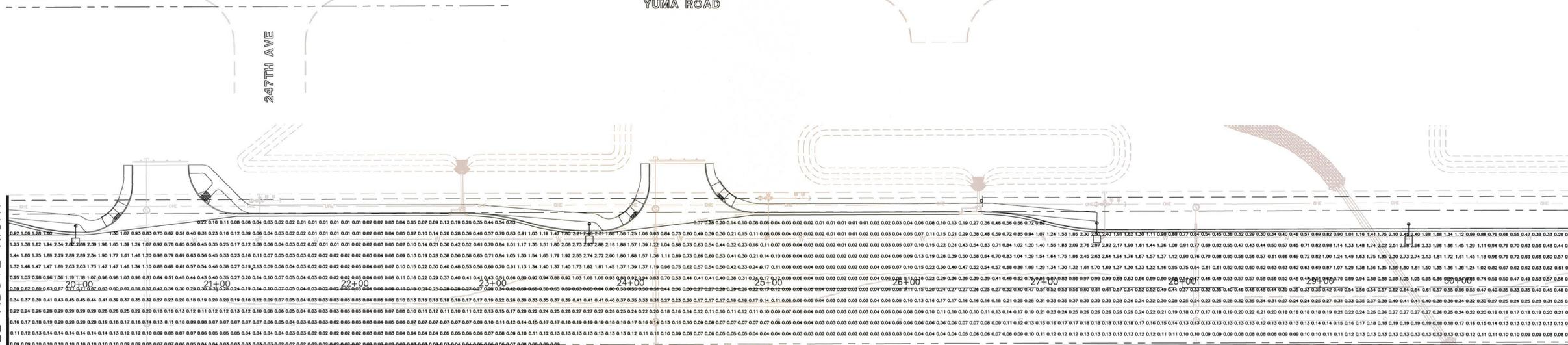
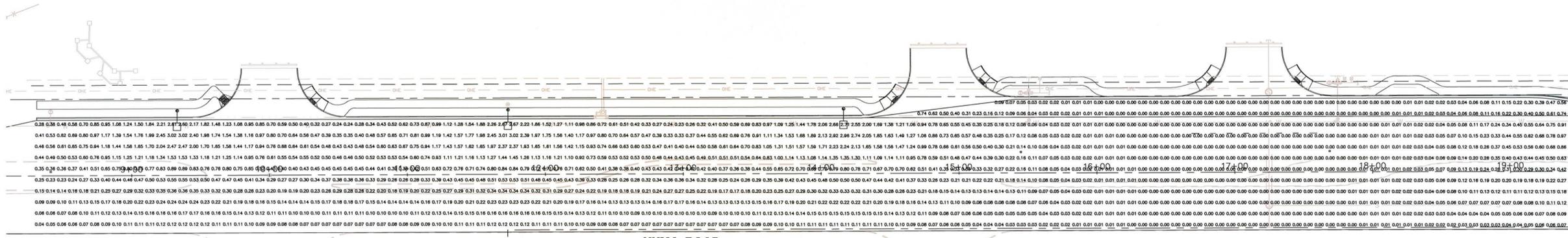


**TOM JONES FORD
STREET LIGHT PLANS**

- REVISIONS:
- 1
 - 2
 - 3

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL
	<p>APPROVED DEC 03 2014 CITY OF BUCKEYE ENGINEERING</p>	
AS-BUILT SEAL	DESIGN SEAL	COB PLAN TRACKING #
ORIGINAL PLAN DATE	LATEST REVISION DATE	COB PERMIT #
MAY 2014		
PROJECT NUMBER	SHEET NUMBER	
14027	SL4 OF 5	

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)



WRIGHT
 engineering corporation
 ELECTRICAL ENGINEERING AND DESIGN
 165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
 PHONE 480.497.5829 • FAX 480.497.5807
 www.wrightengr.com WRIGHT PROJECT # 14027

**TOM JONES FORD
 PHOTOMETRIC
 CALCULATIONS**

- LEGEND**
- 250W HPS Shoebox
 - Type III Distribution
 - 8'x8' Mast Arm
 - candela file 'GE453714.JES'
 - 1 lamp(s) per luminaire, 30000 initial lumens per lamp
 - Light Loss Factor = 0.810, watts per luminaire = 305
 - mounting height = 40 ft
 - number locations = 19, number luminaires = 19
 - kw all locations = 5.8
- YUMA ROAD
 39 ft points
 HORIZONTAL FOOTCANDLES
 Average 0.50
 Maximum 3.02
 Minimum 0.00
 Avg:Min N/A
 Max:Min N/A
 Coef Var 1.18

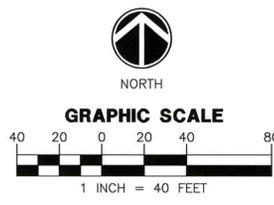
REVISIONS:

1	
2	
3	

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	APPROVED DEC 03 2014 CITY OF BUCKEYE ENGINEERING	SUBMITTAL
AS-BUILT SEAL	DESIGN SEAL		
ORIGINAL PLAN DATE MAY 2014	LATEST REVISION DATE	SHEET NUMBER SL5 OF 5	COB PLAN TRACKING #
PROJECT NUMBER 14027	SHEET NUMBER		

NOTES

- PHOTOMETRIC CALCULATIONS ARE SHOWN FOR REFERENCE ONLY, AND DO NOT PORTRAY ULTIMATE STREET LIGHT DESIGN.
- DUE TO OVERHEAD ELECTRIC CONFLICTS ON THE NORTH SIDE OF YUMA ROAD, THE STREET LIGHTING IS DESIGNED AT A REDUCED LEVEL AND DOES NOT MEET CITY OF BUCKEYE LIGHTING LEVEL REQUIREMENTS. THE LIGHTING DESIGN SHOWN REPRESENTS A TEMPORARY CONDITION. ONCE MEDIAN IS CONSTRUCTED, ALL STREET LIGHTING WILL BE LOCATED IN THE MEDIAN.



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