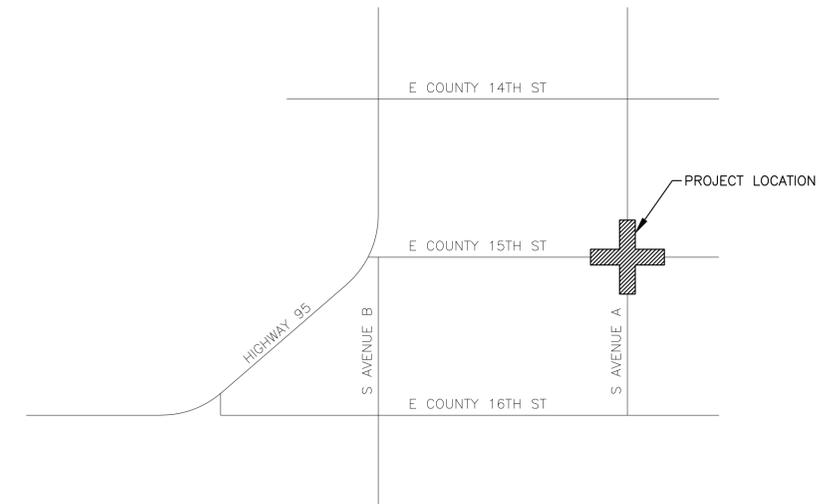


**FINAL**

# YUMA COUNTY DEPARTMENT OF ENGINEERING



VICINITY MAP

## COUNTY 15TH STREET - AVENUE A INTERSECTION IMPROVEMENT PROJECT

JULY 2020

**BOARD OF SUPERVISORS**

CHAIRMAN	Marco A. (Tony) Reyes
VICE-CHAIRMAN	Russell McCloud
MEMBER	Darren Simmons
MEMBER	Lynne Pancrazi
MEMBER	Martin Porchas

**YUMA COUNTY**

COUNTY ADMINISTRATOR	Susan K. Thorpe
DIRECTOR/COUNTY ENGINEER	Chris Young, P.E.
PROJECT MANAGER	David Wostenberg, P.E.



EXPIRES: 12-31-2020

# ABBREVIATIONS

NOTE: THIS IS A GENERAL LIST OF ABBREVIATIONS AND ACRONYMS USED FOR ALL YUMA COUNTY DESIGN PROJECTS. ALL ABBREVIATIONS OR ACRONYMS LISTED ARE NOT NECESSARILY USED FOR THIS PROJECT. ALL ACRONYMS USED IN THIS PROJECT ARE NOT NECESSARILY LISTED HERE. ABBREVIATIONS THAT HAVE DUPLICATE MEANINGS ARE DETERMINED FROM THE CONTEXT OF THEIR RESPECTIVE USE.

ABBREVIATION	DEFINITION
ABC	AGGREGATE BASE COURSE
ALT	ALTERNATE
AC	ASPHALTIC CONCRETE
AGG	AGGREGATE
AP	ANGLE POINT
APN	ASSESSOR'S PARCEL NUMBER
APPROX	APPROXIMATE
ASSOC	ASSOCIATION
AVE	AVENUE
BC	BRASS CAP
BCR	BEGIN CURB RETURN
BK	BOOK
BOP	BEGINNING OF PROJECT
BM	BENCH MARK
BTM, BOTT	BOTTOM
BVC	BEGINNING OF VERTICAL CURVE
CALC	CALCULATED
CL	CENTERLINE
CH	CHORD
C&G	CURB AND GUTTER
C/L	CHAIN LINK
CLR	CLEAR
CNTRL	CONTROL
CO	COUNTY
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COR	CORNER
CORR	CORRECTION
CRN	CROWN (Top of Slope)
CTR	CENTER
CULV	CULVERT
DBL	DOUBLE
DET	DETAIL
DIA, Ø	DIAMETER
DKT	DOCKET
D/W	DRIVEWAY
DWG	DRAWING
E	EAST
E-, ELEV, EL	ELEVATION
EA	EACH
ECR	END CURB RETURN
EP	EDGE OF PAVEMENT
EF	EXIST FINISHED FLOOR ELEV
ENGR	ENGINEER
EQ	EQUAL
ESMT	EASEMENT
EVC	END OF VERTICAL CURVE
EX, EXST	EXISTING
FB	FIELD BOOK
FC	FACE OF CURB
FG	FINISH GRADE
FL	FLOWLINE
FND, FD	FOUND
FT	FOOT
GALV	GALVANIZED
GB	GRADE BREAK
GRND	GROUND
H	HEIGHT
HDWL	HEADWALL
HH	HANDHOLE
HORIZ, HOR	HORIZONTAL
HWE	HIGH WATER ELEV
HWM	HIGH WATER MARK
HWY	HIGHWAY
ID	INSIDE DIAMETER
INV	INVERT
IR	IRON ROD

# ACRONYMS

ACRONYM	DEFINITION	ACRONYM	DEFINITION
ADA	AMERICAN DISABILITIES ACTS	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
AICP	AMERICAN INSTITUTE OF CERTIFIED PLANNERS	P.E.	PROFESSIONAL ENGINEERS
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION	RCP	REINFORCED CONCRETE PIPE
APS	ARIZONA POWER SERVICE	RGRCP	RUBBER GASKET REINFORCED CONCRETE PIPE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	SBM	SAN BERNARDINO MERIDIAN
B-8, BUS 1-8	BUSINESS 8 LOOP	UPRR	UNION PACIFIC RAILROAD (FORMALLY SOUTHERN PACIFIC)
BOS	BOARD OF SUPERVISORS	USBR WMI&DD	UNITED STATES BUREAU OF RECLAMATION WELLTON MOHAWK IRRIGATION & DRAINAGE DISTRICT
COY	CITY OF YUMA	YC	YUMA COUNTY
G&SRB&M	GILA AND SALT RIVER BASE AND MERIDIAN	YCPW	YUMA COUNTY PUBLIC WORKS
GLO	GENERAL LAND OFFICE	YCWUA	YUMA COUNTY WATER USERS ASSOCIATION
HDPE	HIGH DENSITY POLYETHYLENE	YMI&DD	YUMA MESA IRRIGATION & DRAINAGE DISTRICT
I-8	INTERSTATE 8 FREEWAY		

ABBREVIATION	DEFINITION
IRR	IRRIGATION
LAT	LATERAL
LF	LINEAR FEET
LT	LEFT
M	MEASURE
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
O&M	OPERATION AND MAINTENANCE
OH	OVERHEAD
PG	PAGE
PI	POINT OF INTERSECTION
PIVC	POINT OF INTERSECTION VERTICAL CURVE
POT, POC	POINT ON TANGENT (CURVATURE)
PRC	POINT OF REVERSE CURVE
PROJ	PROJECT
PRVC	POINT OF REVERSE VERTICAL CURVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
R	RANGE, RADIUS (FIT CONTEXT)
REBAR	REINFORCING BAR
REQD	REQUIRED
RD	ROAD
RLS	REGISTERED LAND SURVEYOR
RT	RIGHT
R/W, ROW	RIGHT-OF-WAY
S	SOUTH, SLOPE (FIT CONTEXT)
SCH	SCHEDULE
SD	STORM DRAIN
SEC	SECTION
SHT, SH	SHEET
SHLDR	SHOULDER
SS	STAINLESS STEEL
ST	STREET
STL	STEEL
STA	STATION
STD	STANDARD
STR	STRUCTURE
S/W	SIDEWALK
T	TOWNSHIP, TANGENT (FIT CONTEXT)
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEL	TELEPHONE UTILITY
TEMP	TEMPORARY
TRANS	TRANSITION
TYP	TYPICAL
UG	UNDERGROUND
UNKN	UNKNOWN
VC	VERTICAL CURVE
VERT	VERTICAL
W	WEST
WD	WOOD, WIDE (FIT CONTEXT)
W. I.	WROUGHT IRON

	PROPOSED RIGHT-OF-WAY MARKER
	EXISTING GAS LINE MARKER
	EXISTING BLOW-OFF VALVE
	EXISTING CABLE JUNCTION BOX
	EXISTING SEWER MANHOLE
	NEW STORM DRAIN MANHOLE
	EXISTING STORM DRAIN MANHOLE
	NEW WATER VALVE
	NEW WATER METER BOX

# LEGEND

NOTE: THIS IS A GENERAL LEGEND USED FOR ALL YUMA COUNTY DESIGN PROJECTS. EXISTING OBJECTS ARE DASHED OR SUBDUED WHILE PROPOSED DESIGNS ARE BOLD AND SOLID. ALL SYMBOLS LISTED ARE NOT NECESSARILY USED FOR THIS PROJECT.

SYMBOL	DESCRIPTION
	SECTION LINE
	MID-SECTION LINE
	1/16 SECTION LINE
	1/64 SECTION LINE
	CONSTRUCTION CENTERLINE
	STRIPING CENTERLINE
	SURVEY CENTERLINE & SURVEY CONTROL LINE IN SECTION VIEW
	EXISTING RIGHT-OF-WAY LINE
	PROPERTY LINE
	BUREAU OF RECLAMATION RIGHT OF WAY LINE
	EXISTING EASEMENT LINE
	EXISTING FENCE BARBED WIRE
	PROPOSED FENCE BARBED WIRE
	EXISTING FENCE CHAIN LINK
	PROPOSED FENCE CHAIN LINK
	EXISTING FENCE MASONRY WALL
	PROPOSED FENCE MASONRY WALL
	EXISTING FENCE WOOD
	PROPOSED FENCE WOOD
	EXISTING FORCE MAIN PIPE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING UNDERGROUND ELECTRIC CABLE
	EXISTING OVERHEAD TELEPHONE LINE
	EXISTING UNDERGROUND TELEPHONE CABLE
	EXISTING UNDERGROUND GAS LINE
	EXISTING SEWER LINE
	EXISTING WATER LINE
	EXISTING IRRIGATION PIPE
	EXISTING UNDERGROUND FIBER OPTICS
	EXISTING OVERHEAD FIBER OPTICS
	EXISTING SERVICE POLE
	EXISTING POWER POLES & EXISTING POWER POLE WITH LIGHT, LINE DIRECTION(S) SHOWN
	PROPOSED POWER POLES BY OTHERS
	EXISTING SIGNS
	PROPOSED SIGNS
	EXISTING GUY WIRE
	EXISTING TELEPHONE JUNCTION BOX
	EXISTING TELEPHONE MANHOLE
	EXISTING RR RAIL POST W/BOX ON TOP
	EXISTING MAIL BOX
	EXISTING USBR MONITORING WELL
	EXISTING WATER VALVE
	EXISTING WATER METER BOX
	EXISTING BACKFLOW PREVENTER
	EXISTING GAS VALVE
	EXISTING FIRE HYDRANT
	WATER SURFACE
	DELTA, CHANGE IN DIRECTION

# SYMBOL DESCRIPTION

	EXISTING PALM TREE
	EXISTING TREE
	FOUND SURVEY MONUMENT AS NOTED AND/OR CENTERLINE OF INTERSECTION OF SIDE STREET
	EXISTING SLOPE, PROPOSED SLOPE
	PROPOSED CONCRETE
	EXISTING CONCRETE
	EXISTING SHOULDER
	EXISTING AC PAVEMENT
	EXISTING PAVEMENT TO BE REMOVED
	PROPOSED AC PAVEMENT
	PROPOSED SHOULDER
	COMPACTED ABC GRAVEL FILL (SECTION)
	PROPOSED EARTH FILL (SECTION)
	UNDISTURBED / COMPACTED EARTH (SECTION)
	NEW CULVERT OR PIPE
	EXISTING CULVERT OR PIPE
	PROPOSED GROUND ELEVATION
	EXISTING GROUND ELEVATION
	EXISTING ASPHALT ELEVATION
	EXISTING EDGE OF PAVEMENT ELEVATION
	EXISTING TOP (CROWN) OF SLOPE ELEVATION
	EXISTING TOE OF SLOPE ELEVATION
	EXISTING FLOW LINE ELEVATION
	EXISTING EDGE OF FIELD ELEVATION
	EXISTING CONCRETE ELEVATION
	EXISTING ABC ELEVATION
	EXISTING INVERT OF PIPE ELEVATION
	EXISTING HIGH WATER MARK ELEVATION
	EXST ASPHALT ELEVATION - SUPPLEMENT
	PROPOSED DESIGN ASPHALT ELEVATION
	PROPOSED DESIGN CONCRETE ELEVATION

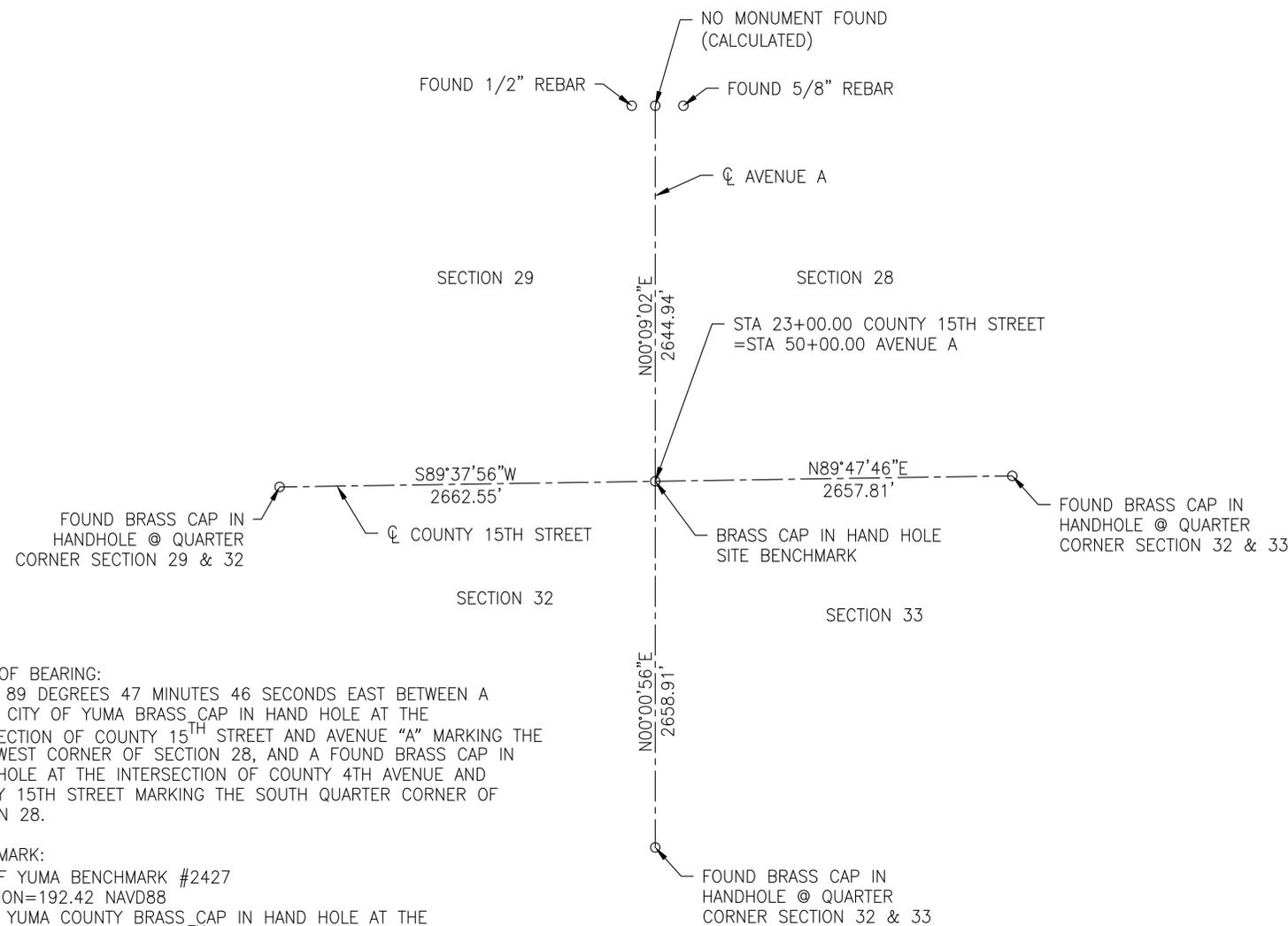
DATE	DESCRIPTION	APPROVED	
		<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA	
		<b>COUNTY 15TH STREET - AVENUE A</b> INTERSECTION IMPROVEMENT PROJECT SECTIONS SW 28, SE 29, NE 32 & NW 33	
<b>GENERAL NOTES</b>			
DATE: 07-14-2020	CHECKED: SP	HORIZ SCALE:	PURCHASE ORDER 150552
DESIGN: SP	DRAWN: MG	VERT SCALE:	YUMA CO CIP NO. 1.9915-E
RICK PROJ. No. 5069		GN01 SHEET 2 OF 30	

**YUMA COUNTY PUBLIC WORKS GENERAL ROADWAY**

**CONSTRUCTION NOTES**

1. SPECIFICATION RELATED NOTES

- A. ALL CONSTRUCTION WILL CONFORM TO THE MOST CURRENT YUMA COUNTY PUBLIC WORKS CONSTRUCTION STANDARDS AND STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED.
  - B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. ALL WORK SHALL BE COMPLETED IN A THOROUGH MANNER, FREE OF ANY WORKMANSHIP DEFECTS. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING CHANGE TO THE PLANS AND REQUEST INSTRUCTIONS BEFORE PROCEEDING WITH THE WORK.
  - C. ANY DEFECTIVE MATERIAL OR WORKMANSHIP AS DETERMINED BY THE ENGINEER SHALL BE REPLACED AND/OR REPAIRED PRIOR TO FINAL ACCEPTANCE OF THE WORK
  - D. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL PROPOSED PROJECT SAFETY DATA SHEETS AND ANY SHOP DRAWINGS. ANY MATERIAL SUPPLIED NOT IN CONFORMANCE WITH THE SPECIFICATIONS WILL BE REJECTED.
  - E. ANY ITEM OF WORK CALLED OUT BY THE CONTRACT PLANS OR SPECIFICATIONS REQUIRED TO COMPLETE THE WORK AND NOT SPECIFICALLY NOTED AS A BID ITEM ON THE PROPOSAL SHALL BE CONSIDERED INCIDENTAL TO SAID BID ITEM.
  - F. THE CONTRACTOR WILL PROVIDE THE ENGINEER AND YUMA COUNTY WITH CERTIFIED COMPACTION, CONCRETE, AND LABORATORY TESTS AS REQUIRED BY YUMA COUNTY STANDARD SPECIFICATIONS AND THE UNIFORM BUILDING CODE PRIOR TO ACCEPTANCE OF THE PROJECT.
  - G. ALL MATERIAL SUPPLIED MUST BE SUBMITTED AS "SUBMITTALS FOR CONSTRUCTION".
2. BLUESTAKE / UTILITIES – THE CONTRACTOR WILL BE RESPONSIBLE, IN ACCORDANCE WITH ARIZONA REVISED STATUTES, TO NOTIFY ARIZONA 811 AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION ACTIVITIES. LOCATIONS OF EXISTING PUBLIC UTILITY LINES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR MUST VERIFY THE LOCATIONS IN THE FIELD AND TAKE NECESSARY PRECAUTIONS. ANY DAMAGE TO A UTILITY SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
3. DUST CONTROL – THE PROJECT IS LOCATED WITHIN A PM<sub>10</sub> NON-ATTAINMENT AREA OF YUMA COUNTY. THE CONTRACTOR SHALL MAINTAIN DUST ABATEMENT ACTIVITIES FOR THE DURATION OF THE PROJECT, INCLUDING WEEKENDS AND HOLIDAYS. THE CONTRACTOR SHALL MAINTAIN ADEQUATE MOISTURE LEVELS IN THE SURFACE MATERIALS TO ELIMINATE BLOWING DUST FROM THESE MATERIALS. ALL HAUL TRUCKS, WHETHER INVOLVED IN DELIVERY OR REMOVAL ACTIVITIES, SHALL BE COVERED AND/OR TARPED IN ORDER TO NEGATE THE REMOVAL OF MATERIAL FROM TRUCKS BY WINDS, EITHER NATURAL OR CAUSED BY THE MOVEMENT OF THE TRUCK.
4. TRAFFIC CONTROL PLAN – IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SUBMIT A TRAFFIC CONTROL PLAN TO YUMA COUNTY IN ORDER TO OBTAIN AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION WORK THAT WILL AFFECT A PUBLIC RIGHT OF WAY. THE PLAN WILL BE A CONTINUING PROGRAM TO PROVIDE AND MAINTAIN PROPER SIGNS, BARRICADES AND WARNING LIGHTS TO CONTROL THE TRAFFIC, AND TO ASSURE THE PUBLIC'S HEALTH, WELFARE AND SAFETY. ALL DEVICES MUST CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE TRAFFIC CONTROL PLAN MUST INCLUDE ALL DETOUR ROUTES. A SEPARATE TRAFFIC CONTROL PLAN MUST BE SUBMITTED FOR EACH TRAFFIC CONTROL SITUATION AT LEAST SEVEN (7) CALENDAR DAYS PRIOR TO PLANNED IMPLEMENTATION. THE CONTRACTOR SHALL NOTIFY THE YUMA COUNTY TRAFFIC CONTROL TECHNICIAN 48 HOURS BEFORE IMPLEMENTING TRAFFIC CONTROL CHANGES SO THE COUNTY MAY NOTIFY EMERGENCY SERVICES. THE TRAFFIC CONTROL PLAN MUST BE PREPARED BY AND IMPLEMENTED UNDER THE ON-SITE SUPERVISION OF A PERSON CERTIFIED AS A TRAFFIC CONTROL SUPERVISOR BY ATSSA OR IMSA.
5. TRAFFIC CONTROL – THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING PROPER SIGNS, BARRICADES, AND WARNING LIGHTS TO CONTROL THE TRAFFIC AND TO ASSURE THE PUBLIC'S HEALTH, WELFARE, AND SAFETY. ALL DEVICES MUST CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD LATEST EDITION). THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION OF ALL TRAFFIC CONTROL INSTALLATIONS USED IN CONJUNCTION WITH THIS PROJECT AND SHALL INSPECT, AT LEAST TWICE DAILY, TO ENSURE CONFORMANCE WITH THE APPROVED TRAFFIC CONTROL PLAN.
6. RECORD DRAWINGS – THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PREPARATION AND FURNISHING OF "AS-BUILT" RECORD DRAWINGS. THE "AS-BUILT" INFORMATION SHALL BE RECORDED ON THE PLANS IN RED COLORED PENCIL. THE INFORMATION SHALL INCLUDE ALL CASES WHERE ACTUAL FIELD CONSTRUCTION DIFFERS FROM THE DESIGNED INFORMATION, ALL CONCEALED WORK, ALL UTILITY LOCATIONS, ALL WATER VALVES AND MANHOLES. DIMENSIONS AND ELEVATIONS SHALL BE SHOWN FROM KNOWN REFERENCE POINTS.
7. OSHA – OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STANDARD FOR CONSTRUCTION (TITLE 29, CODE OF FEDERAL REGULATIONS, PART 1926 AS AMENDED) AND YUMA COUNTY SAFETY REGULATIONS ARE APPLICABLE FOR THE COMPLETION OF THE WORK ON THIS PROJECT.
8. MONUMENTS – ANY SURVEY MONUMENT DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH CITY OF YUMA STANDARD DETAILS BY THE CONTRACTOR AT NO EXTRA COSTS. CONTRACTOR SHALL UTILIZE A REGISTERED LAND SURVEYOR FOR REPLACEMENT OF MONUMENTS IN ACCORDANCE WITH ARIZONA REVISED STATUTES.
9. ACCESS TO ADJACENT PROPERTY – ACCESS TO ADJACENT PROPERTIES, CROSS STREETS OR USE OF STREETS SCHEDULED FOR IMPROVEMENT MUST BE REASONABLY MAINTAINED FOR NORMAL ACCESS AND LOCAL RESIDENTS.
10. SEALANT – ALL EXISTING CRACKS 1/8" OR GREATER SHALL BE ROUTED, BLOWN FREE OF DEBRIS AND SEALED WITH POLYMER MODIFIER ASPHALT – RUBBER CRACK SEALANT PER MAG STD. SECTION 337.
11. PAVEMENT MARKING / STRIPING
- A. CONSTRUCTION SIGNING AND BARRICADES SHALL BE FURNISHED BY THE CONTRACTOR ALL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
  - B. THE PROJECT ROADWAY'S PAVEMENT MARKINGS WILL BE INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF THE MUTCD BY THE CONTRACTOR.
13. POWER LINES – THERE ARE OVERHEAD POWER AND TELEPHONE LINES NEAR AND ADJACENT TO THE WORK AREAS. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ALL NECESSARY PRECAUTIONS WHILE WORKING AROUND AND/OR UNDER SUCH LINES.
14. BARRICADES – FOR WORK LOCATED OUTSIDE OF EXISTING STREETS, CONTRACTOR SHALL PROVIDE LIGHTED BARRICADES POSITIONED ON FOUR-FOOT CENTERS AROUND THE PERIMETER OF OPEN EXCAVATIONS AT THE CONCLUSION OF THE WORKDAY. TWO STRANDS OF BARRIER TAPE SHALL BE TIED AROUND THE BARRICADED AREA. FOR WORK LOCATED WITHIN EXISTING STREETS, CONTRACTOR SHALL PROTECT TRAFFIC FROM OPEN TRENCH WITH VEHICULAR-RATED STEEL PLATES OR PHYSICALLY SEPARATE TRAFFIC FROM OPEN TRENCH WITH PORTABLE BARRIERS (TEMPORARY CONCRETE BARRIER) DESIGNED IN ACCORDANCE WITH ADOT ADOPTED DESIGN STANDARDS FOLLOWING THE LENGTH OF NEED AND OFFSET FORMULAS FOUND IN THE AASHTO ROADSIDE DESIGN GUIDE.
15. FRAMES AND COVERS – ALL MANHOLE FRAMES AND COVERS, WATER VALVE BOXES AND LIDS AND OTHER SIMILAR EXISTING UTILITIES SHALL BE RAISED TO GRADE OF FINISHED PAVEMENT. THE LOCATION OF THESE ITEMS SHALL BE RECORDED AND DELIVERED TO THE ENGINEER.
16. CLEANUP – THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL UNCLASSIFIED EXCAVATION MATERIAL, EXISTING PAVEMENT, CONCRETE DEBRIS AND ALL OTHER MATERIAL RESULTING FROM DEMOLITION ACTIVITIES.
17. PERMITS/NOTIFICATIONS – THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND BUSINESS LICENSES AND SHALL NOTIFY YUMA COUNTY AT LEAST 72 HOURS PRIOR TO COMMENCING WORK AND AT LEAST 48 HOURS PRIOR TO REQUIRING AN INSPECTION.
18. SANITARY FACILITIES – IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SANITARY FACILITIES ON LOCATION OF THE PROJECT FOR USE BY THE CONTRACTOR'S EMPLOYEES.
19. CHANGES – THE CONTRACTOR SHALL NOTIFY YUMA COUNTY AND THE ENGINEER IMMEDIATELY OF ANY CONDITIONS REQUIRING CHANGE TO THE PLANS IN ACCORDANCE WITH ADOT SECTION 104.03. FAILURE TO NOTIFY SHALL RESULT IN INABILITY TO CLAIM CHANGES.
20. CONSTRUCTION STAKING, TESTING AND SPECIAL INSPECTION – CONSTRUCTION STAKING CONTROL WILL NOT BE PROVIDED BY THE COUNTY. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING. MATERIAL TESTING AND SPECIAL INSPECTIONS WILL BE PROVIDED BY THE CONTRACTOR. ALL WORK SHALL BE IN ACCORDANCE WITH YUMA COUNTY PUBLIC WORKS STANDARDS, VOLUMES 1 THRU 3, EXCEPT AS REVISED HEREIN.
21. SIGNS – STOP SIGNS, YIELD SIGNS AND ALL OTHER TRAFFIC CONTROL SIGNS SHALL BE MOVED IF NECESSARY DURING THE CONSTRUCTION PROCESS AND BE REPOSITIONED TEMPORARILY IN A LOCATION DETERMINED BY THE ENGINEER. STOP SIGNS AND YIELD SIGNS SHALL NOT BE TAKEN OUT OF SERVICE BUT RATHER RELOCATED IN A VISIBLE LOCATION. OTHER SIGNS SHALL BE STORED BY THE CONTRACTOR DURING THE CONSTRUCTION PHASE OF THE PROJECT. AT THE CONCLUSION OF THE PROJECT ALL SIGNS SHALL BE POSITIONED IN A PERMANENT LOCATION AS DETERMINED BY THE ENGINEER. STOP SIGNS AND STREET NAME SIGNS ARE TO BE POSITIONED AT INTERSECTIONS AS ILLUSTRATED ON THE PLANS.



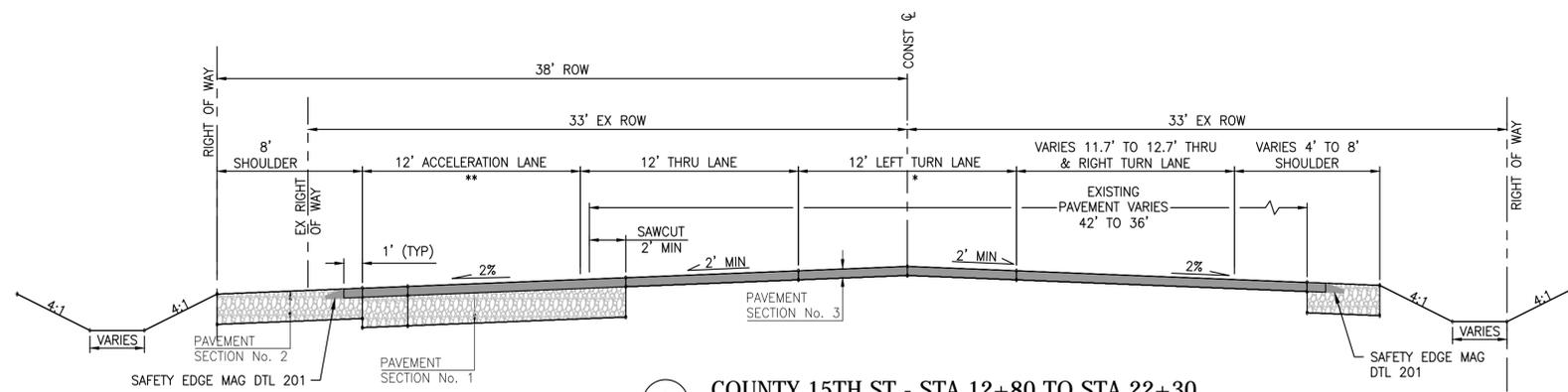
BASIS OF BEARING:  
 NORTH 89 DEGREES 47 MINUTES 46 SECONDS EAST BETWEEN A FOUND CITY OF YUMA BRASS CAP IN HAND HOLE AT THE INTERSECTION OF COUNTY 15<sup>TH</sup> STREET AND AVENUE "A" MARKING THE SOUTHWEST CORNER OF SECTION 28, AND A FOUND BRASS CAP IN HAND HOLE AT THE INTERSECTION OF COUNTY 4<sup>TH</sup> AVENUE AND COUNTY 15<sup>TH</sup> STREET MARKING THE SOUTH QUARTER CORNER OF SECTION 28.

BENCHMARK:  
 CITY OF YUMA BENCHMARK #2427  
 ELEVATION=192.42 NAVD88  
 FOUND YUMA COUNTY BRASS CAP IN HAND HOLE AT THE INTERSECTION OF COUNTY 15<sup>TH</sup> STREET AND AVENUE "A".

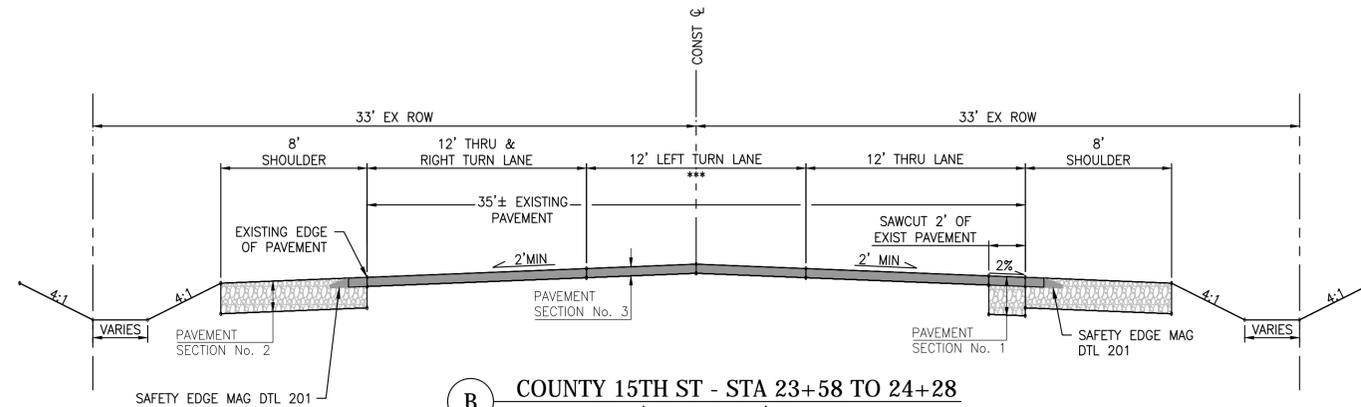
**SURVEY CONTROL**

SHEET LIST TABLE		
Sheet Number	Sheet Title	Sheet Description
1	CV01	COVER
2	GN01	GENERAL NOTES
3	GN02	GENERAL NOTES & SURVEY CONTROL
4	GN03	TYPICAL SECTIONS
5	GN04	QUANTITIES
6	PP01	PLAN AND PROFILE SHEET STA 12+80 TO STA 14+00
7	PP02	PLAN AND PROFILE SHEET STA 14+00 TO STA 18+50
8	PP03	PLAN AND PROFILE SHEET STA 18+50 TO STA 23+00
9	PP04	PLAN AND PROFILE SHEET STA 23+00 TO STA 27+50
10	PP05	PLAN AND PROFILE SHEET STA 41+00 TO STA 45+50
11	PP06	PLAN AND PROFILE SHEET STA 45+50 TO STA 50+00
12	PP07	PLAN AND PROFILE SHEET STA 50+00 TO STA 54+50
13	PP08	PLAN AND PROFILE SHEET STA 54+50 TO 59+00
14	SS01	SIGNING AND STRIPING PLAN STA 9+50 TO STA 18+50
15	SS02	SIGNING AND STRIPING PLAN STA 18+50 TO STA 27+50
16	SS03	SIGNING AND STRIPING PLAN STA 27+50 TO STA 32+00
17	SS04	SIGNING AND STRIPING PLAN STA 41+00 TO STA 50+00
18	SS05	SIGNING AND STRIPING PLAN STA 50+00 TO STA 58+50
19	SI01	SIGN INVENTORY
20	TS01	TRAFFIC SIGNAL LAYOUT
21	TS02	POLE SCHEDULE
22	TS03	PHASING DIAGRAM
23	TS04	SIGNAL SCHEDULES
24	DT01	DETAILS
25	DT02	INTERSECTION GRADING DETAIL
26	CS01	CO 15th CROSS SECTIONS
27	CS02	CO 15th CROSS SECTIONS
28	CS03	AVENUE A CROSS SECTIONS
29	CS04	AVENUE A CROSS SECTIONS
30	CS05	AVENUE A CROSS SECTIONS

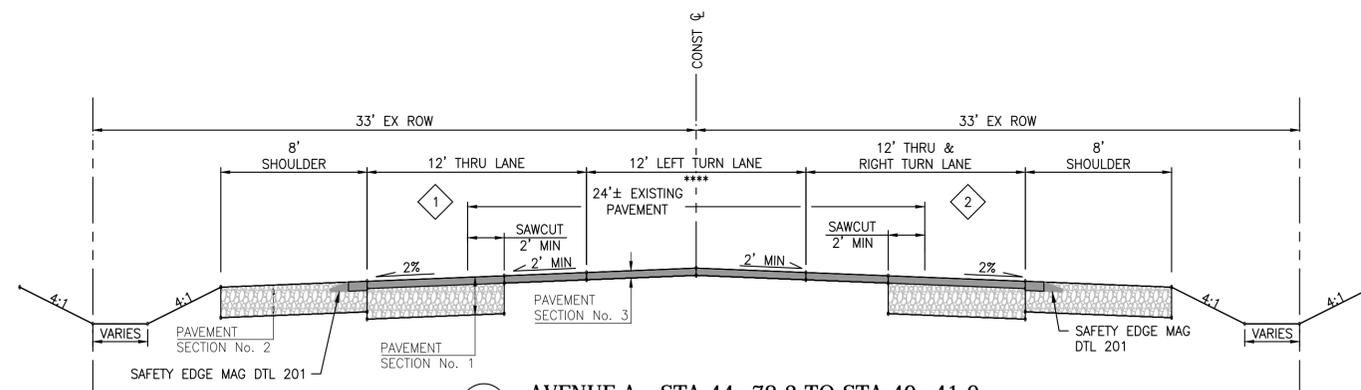
DATE		DESCRIPTION	
DATE: 07-14-2020		APPROVED	
		<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA	
6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350 <small>Tucson - San Diego - Riverside - Orange                  Sacramento - San Luis Obispo - Denver                  rickengineering.com</small>		<b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 & NW 33	
<b>GENERAL NOTES &amp; SURVEY CONTROL</b>		CHECKED: SP    PURCHASE ORDER 150552 <b>GN02</b> RICK PROJ. No. 5069    VERT SCALE:    YUMA CO CIP NO. 1.9915-E    SHEET 3 OF 30	



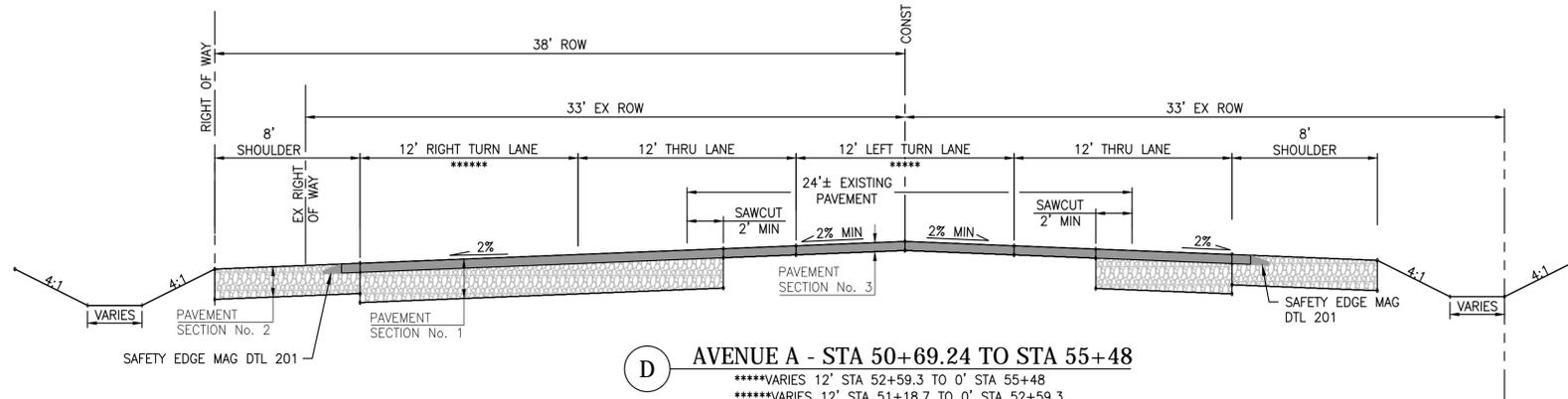
**A COUNTY 15TH ST - STA 12+80 TO STA 22+30**  
 \*VARIES 0' STA 12+80 TO 12' STA 20+39.4  
 \*\*VARIES 5.09' STA 12+80 TO 12' STA 17+22.3



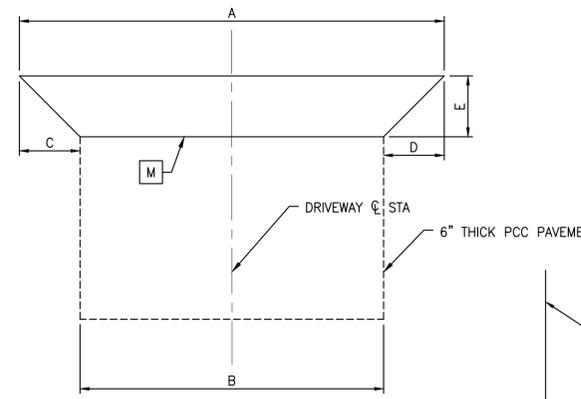
**B COUNTY 15TH ST - STA 23+58 TO STA 24+28**  
 \*\*\*VARIES 12' STA 23+58 TO 0' STA 24+48



**C AVENUE A - STA 44+78.3 TO STA 49+41.0**  
 \*\*\*\*VARIES 0' STA 44+78.3 TO 12' STA 47+44  
 1 LANE VARIES 10.6' TO 12.0' STA 44+44.3 TO STA 45+18.0  
 2 LANE VARIES 9.5' TO 12.0' STA 44+44.3 TO STA 45+23.4

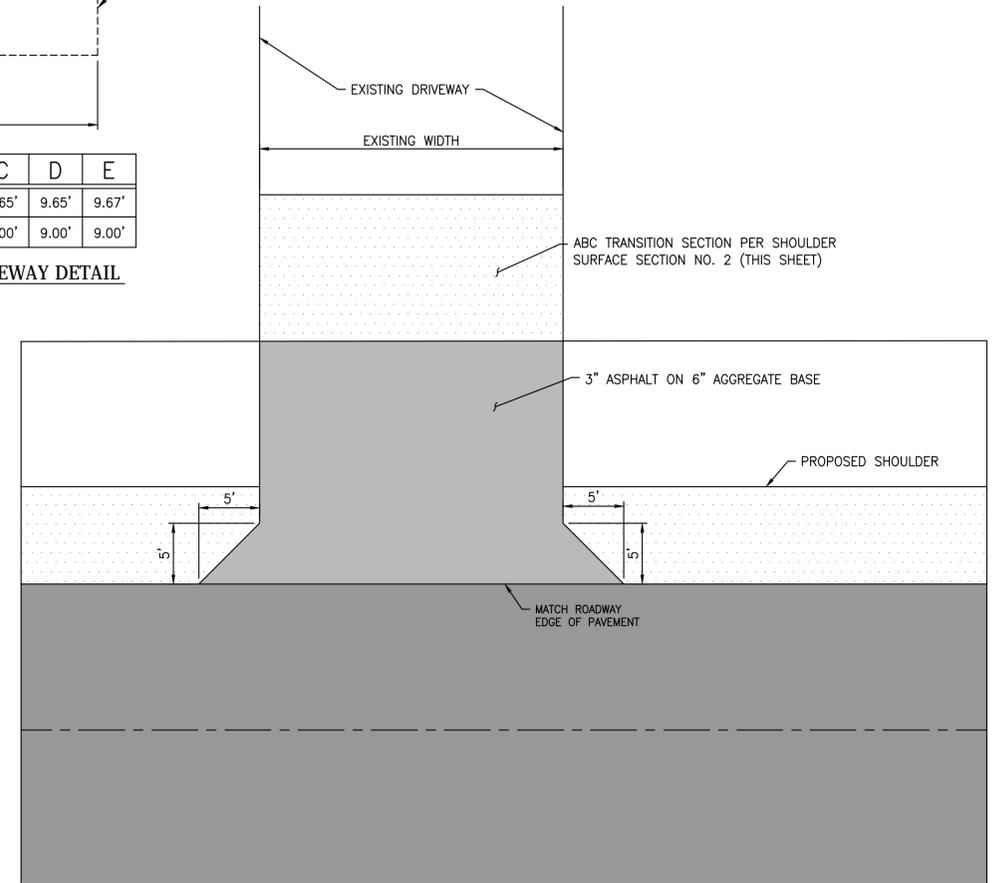


**D AVENUE A - STA 50+69.24 TO STA 55+48**  
 \*\*\*\*\*VARIES 12' STA 52+59.3 TO 0' STA 55+48  
 \*\*\*\*\*VARIES 12' STA 51+18.7 TO 0' STA 52+59.3

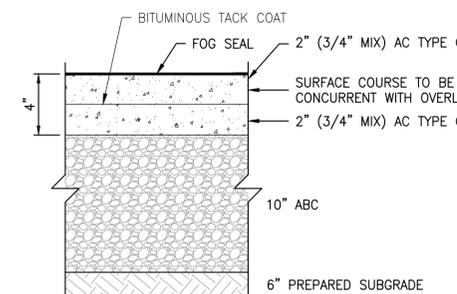


LOCATION	A	B	C	D	E
STA 13+75.5	33.50'	14.20'	9.65'	9.65'	9.67'
STA 45+04.1	48.20'	29.20'	9.00'	9.00'	9.00'

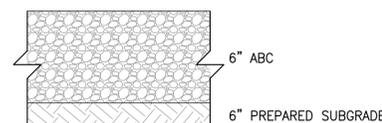
**5 CONCRETE DRIVEWAY DETAIL**



**4 ASPHALT DRIVEWAY DETAIL**



**1 ASPHALT PAVEMENT PAVEMENT SECTION No. 1**



**2 SHOULDER SURFACE ROADWAY SECTION No. 2**



**3 OVERLAY PAVEMENT PAVEMENT SECTION No. 3**

EARTHWORK QUANTITIES		
	QUANTITY	UNIT
ROADWAY EXCAVATION	1,733	CY
ROADWAY EMBANKMENT	110	CY
WASTE (HAUL 0 CF)	1,623	CY

Contact Arizona 811 at least two full working days before you begin excavation

Call 811 or click Arizona811.com

Expires: 12-31-2020

DATE	DESCRIPTION	APPROVED

**RICK ENGINEERING COMPANY**  
 6150 NORTH 16TH STREET  
 PHOENIX, AZ 85016  
 602.957.3350

Tucson - San Diego - Riverside - Orange  
 Sacramento - San Luis Obispo - Denver  
 rickengineering.com

**YUMA COUNTY**  
 DEPARTMENT OF ENGINEERING  
 STATE OF ARIZONA

**COUNTY 15TH STREET - AVENUE A  
 INTERSECTION IMPROVEMENT PROJECT**  
 SECTIONS SW 28, SE 29, NE 32 & NW 33

TYPICAL SECTIONS			
DATE: 07-14-2020	CHECKED: SP	HORIZ SCALE:	PURCHASE ORDER 150552
DESIGN: SP	DRAWN: MG	VERT SCALE:	YUMA CO CIP NO. 1.9915-E
RICK PROJ. No. 5069	GNO3		SHEET 4 OF 30

**TOTAL ESTIMATED QUANTITIES:**

ITEM #	ITEM DESCRIPTION	QTY	UNIT
2010100	TREE PRUNING AND TRIMMING	1	LS
2020040	REMOVE ASPHALTIC CONCRETE PAVEMENT	992	SY
2020055	REMOVE AND SALVAGE SIGN	16	EA
2020100	REMOVE AND RELOCATE FENCE	834	LF
2020201	SAWCUTTING	3766	LF
2030302	ROADWAY EXCAVATION	1,733	CY
3030110	AGGREGATE BASE - 6" DEPTH	3231	SY
3030111	AGGREGATE BASE - 10" DEPTH	3980	SY
3400001	NEW TYPE "A" CURB	292	LF
3400005	REMOVE AND REPLACE CONCRETE DRIVEWAY	580	SF
4010003	TRAFFIC CONTROL	1	LS
4060010	MILL ASPHALT PAVEMENT - 0" TO 2" DEPTH	733	SY
4060023	ASPHALTIC CONCRETE PAVEMENT, INITIAL/BASE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	3676	SY
4060024	ASPHALTIC CONCRETE PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	10,047	SY
4060025	ASPHALTIC CONCRETE DRIVEWAY PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 3" DEPTH	130	SY
5040992	FURNISH AND CONSTRUCT IRRIGATION SIPHON REPLACEMENT	1	LS
6070001	FURNISH AND INSTALL GALVANIZED SQUARE TUBE SIGN POST, SIZE PER PLAN, WITH FOUNDATION, ADOT SPEC 607	129	LF
6080001	FURNISH AND INSTALL REGULATORY AND WARNING SIGN PANEL, TYPE XI SHEETING, ADOT SPEC 608 & 1007	178	SF
6080120	FURNISH AND INSTALL STREET NAME SIGNS ON TRAFFIC SIGNAL POLE	52	SF
7015052	OBLITERATE PAVEMENT MARKINGS	1000	LF
7040003	FURNISH AND INSTALL PAVEMENT MARKING (4" EQUIVALENT), WHITE, 0.090" THICK THERMOPLASTIC	10952	LF
7040005	FURNISH AND INSTALL PAVEMENT MARKING (4" EQUIVALENT), YELLOW, 0.090" THICK THERMOPLASTIC	15675	LF
7040074	FURNISH AND INSTALL PAVEMENT SYMBOL OR LEGEND, 0.090" THICK EXTRUDED THERMOPLASTIC ALKYD	10	EA
7060001	INSTALL RAISED PAVEMENT MARKERS, REFLECTORIZED, TYPE D, YELLOW - 2 WAY	447	EA
7060002	INSTALL RAISED PAVEMENT MARKERS, REFLECTORIZED, TYPE G, WHITE - 1 WAY	168	EA
7080001	FURNISH AND INSTALL INTERIM PAVEMENT MARKING, YELLOW STRIPE, 4" WIDE	6048	LF
7080002	FURNISH AND INSTALL INTERIM PAVEMENT MARKING, WHITE STRIPE, 4" WIDE	5325	LF
7080003	FURNISH AND INSTALL INTERIM PAVEMENT SYMBOL OR LEGEND	10	EA
7310130	INSTALL DEPARTMENT FURNISHED TYPE Q POLE WITH FOUNDATION, ADOT DETAIL TS 4-10	3	EA
7310131	INSTALL DEPARTMENT FURNISHED TYPE R POLE WITH FOUNDATION, ADOT DETAIL TS 4-11	1	EA
7310551	INSTALL DEPARTMENT FURNISHED TAPERED LUMINAIRE ARM, 20' LONG, ADOT DETAIL TS 4-26	4	EA
7310590	INSTALL DEPARTMENT FURNISHED STRAIGHT TRAFFIC SIGNAL MAST ARM, 35' LONG, ADOT DETAIL TS 4-28	3	EA
7310610	INSTALL DEPARTMENT FURNISHED STRAIGHT TRAFFIC SIGNAL MAST ARM, 45' LONG, ADOT DETAIL TS 4-28	1	EA
7320056	FURNISH AND INSTALL 2" DIA SCHEDULE 40 PVC ELECTRICAL CONDUIT WITH PULL CORD IN TRENCH	8	LF
7320060	FURNISH AND INSTALL 2.5" DIA SCHEDULE 40 PVC ELECTRICAL CONDUIT WITH PULL CORD IN TRENCH	10	LF
7320071	FURNISH AND INSTALL 3" DIA SCHEDULE 40 PVC ELECTRICAL CONDUIT WITH PULL CORD IN TRENCH	75	LF
7320074	FURNISH AND INSTALL 3" SCHEDULE 40 PVC ELECTRICAL CONDUITS WITH DIRECTIONAL DRILLING	542	LF
7320420	FURNISH AND INSTALL NO 7 HD PULL BOX, 12" DEPTH, ADOT TS 1-2	3	EA
7320421	FURNISH AND INSTALL NO 7 HD PULL BOX, 24" DEPTH, ADOT TS 1-2	1	EA
7320650	FURNISH AND INSTALL TRAFFIC SIGNAL CONDUCTORS, ADOT TS 1-7	1	LS
7330060	FURNISH AND INSTALL TYPE F TRAFFIC SIGNAL FACE ASSEMBLY, 12" LENS, LED, ADOT DETAIL TS 8-1	8	EA
7330070	FURNISH AND INSTALL TYPE G TRAFFIC SIGNAL FACE ASSEMBLY, 12" LENS, LED, ADOT DETAIL TS 8-3	8	EA
7330310	FURNISH AND INSTALL TYPE II MOUNTING ASSEMBLY, ADOT DETAIL TS 9-1	8	EA
7330360	FURNISH AND INSTALL TYPE VII MOUNTING ASSEMBLY, ADOT DETAIL TS 9-1	8	EA
7340101	FURNISH AND INSTALL COBALT ATC TRAFFIC CONTROLLER AND ECONOLITE P44 TS2 TYPE IV CONTROL CABINET, ADOT TS 3-9	1	EA
7340105	FURNISH AND INSTALL CONTROL CABINET FOUNDATION, ADOT TS 2-4	1	EA
7340120	FURNISH AND INSTALL METER PEDESTAL, CABINET, AND FOUNDATION, ADOT TS 2-6	1	EA
7350101	FURNISH AND INSTALL VIDEO IMAGE VEHICLE TRACKING AND DETECTION SYSTEM (VIVTDS)	1	LS
7360001	FURNISH AND INSTALL LED LUMINAIRE, HORIZONTAL MOUNT, TYPE 15L	4	EA
7360002	FURNISH AND INSTALL UNINTERRUPTIBLE POWER SUPPLY (BATTERY BACKUP)	1	EA
9010001	MOBILIZATION	1	LS
9240001	ESTABLISH ELECTRICAL SERVICE	1	FORCE ACCOUNT

UTILITY COMPANIES					
UTILITY COMPANY NOTIFIED	UTILITY	REPRESENTATIVE	PHONE NO.	EMAIL	DATE SENT
APS	ELECTRICAL	ANTONIA MORALES	520-227-3786	ANTONIA.MORALES@APS.COM	-
CENTURY LINK	TELE-COMMUNICATIONS	ED S. ALUPAY	928-343-8943	ED.ALUPAY@CENTURYLINK.COM	-
TERRA TECHNOLOGIES LLC	TELE-COMMUNICATIONS	KEVIN WAGNER	815-245-9640	KWAGNER@TERRATECHLLC.NET	-
SOUTHWEST GAS	GAS	JIM LARSON	928-341-2604	JAMES.LARSON@SWGAS.COM	-
UNIT B IRRIGATION DISTRICT	IRRIGATION	BRYAN KNIGHT	928-627-8891	BRYANK@UNITBIRR.COM	-

**PP01 TOTAL ESTIMATED QUANTITIES:**

ITEM #	ITEM DESCRIPTION	QTY	UNIT
2020040	REMOVE ASPHALTIC CONCRETE PAVEMENT	28	SY
2020055	REMOVE AND SALVAGE SIGN	0	EA
2020100	REMOVE AND RELOCATE FENCE	0	LF
2020201	SAWCUTTING	155	LF
2030302	ROADWAY EXCAVATION	105	CY
3030110	AGGREGATE BASE - 6" DEPTH	145	SY
3030111	AGGREGATE BASE - 10" DEPTH	62	SY
4060010	MILL ASPHALT PAVEMENT - 0" TO 2" DEPTH	216	SY
4060023	ASPHALTIC CONCRETE PAVEMENT, INITIAL/BASE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	62	SY
4060024	ASPHALTIC CONCRETE PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	505	SY
4060025	ASPHALTIC CONCRETE DRIVEWAY PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 3" DEPTH	0	SY
5040992	FURNISH AND CONSTRUCT IRRIGATION SIPHON REPLACEMENT	0	LS

**PP02 TOTAL ESTIMATED QUANTITIES:**

ITEM #	ITEM DESCRIPTION	QTY	UNIT
2020040	REMOVE ASPHALTIC CONCRETE PAVEMENT	150	SY
2020055	REMOVE AND SALVAGE SIGN	2	EA
2020100	REMOVE AND RELOCATE FENCE	229	LF
2020201	SAWCUTTING	687	LF
2030302	ROADWAY EXCAVATION	365	CY
3030110	AGGREGATE BASE - 6" DEPTH	723	SY
3030111	AGGREGATE BASE - 10" DEPTH	596	SY
4060010	MILL ASPHALT PAVEMENT - 0" TO 2" DEPTH	0	SY
4060023	ASPHALTIC CONCRETE PAVEMENT, INITIAL/BASE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	596	SY
4060024	ASPHALTIC CONCRETE PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	2235	SY
4060025	ASPHALTIC CONCRETE DRIVEWAY PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 3" DEPTH	69	SY
5040992	FURNISH AND CONSTRUCT IRRIGATION SIPHON REPLACEMENT	0	LS

**PP03 TOTAL ESTIMATED QUANTITIES:**

ITEM #	ITEM DESCRIPTION	QTY	UNIT
2020040	REMOVE ASPHALTIC CONCRETE PAVEMENT	178	SY
2020055	REMOVE AND SALVAGE SIGN	3	EA
2020100	REMOVE AND RELOCATE FENCE	451	LF
2020201	SAWCUTTING	623	LF
2030302	ROADWAY EXCAVATION	496	CY
3030110	AGGREGATE BASE - 6" DEPTH	672	SY
3030111	AGGREGATE BASE - 10" DEPTH	864	SY
3400001	NEW TYPE "A" CURB	146	LF
4060010	MILL ASPHALT PAVEMENT - 0" TO 2" DEPTH	0	SY
4060023	ASPHALTIC CONCRETE PAVEMENT, INITIAL/BASE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	864	SY
4060024	ASPHALTIC CONCRETE PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	2458	SY
4060025	ASPHALTIC CONCRETE DRIVEWAY PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 3" DEPTH	0	SY
5040992	FURNISH AND CONSTRUCT IRRIGATION SIPHON REPLACEMENT	0	LS

**PP04 TOTAL ESTIMATED QUANTITIES:**

ITEM #	ITEM DESCRIPTION	QTY	UNIT
2020040	REMOVE ASPHALTIC CONCRETE PAVEMENT	70	SY
2020055	REMOVE AND SALVAGE SIGN	5	EA
2020100	REMOVE AND RELOCATE FENCE	0	LF
2020201	SAWCUTTING	168	LF
2030302	ROADWAY EXCAVATION	101	CY
3030110	AGGREGATE BASE - 6" DEPTH	163	SY
3030111	AGGREGATE BASE - 10" DEPTH	123	SY
3400001	NEW TYPE "A" CURB	146	LF
4060010	MILL ASPHALT PAVEMENT - 0" TO 2" DEPTH	219	SY
4060023	ASPHALTIC CONCRETE PAVEMENT, INITIAL/BASE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	123	SY
4060024	ASPHALTIC CONCRETE PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	525	SY
4060025	ASPHALTIC CONCRETE DRIVEWAY PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 3" DEPTH	0	SY
5040992	FURNISH AND CONSTRUCT IRRIGATION SIPHON REPLACEMENT	0	LS

**PP05 TOTAL ESTIMATED QUANTITIES:**

ITEM #	ITEM DESCRIPTION	QTY	UNIT
2020040	REMOVE ASPHALTIC CONCRETE PAVEMENT	36	SY
2020055	REMOVE AND SALVAGE SIGN	2	EA
2020100	REMOVE AND RELOCATE FENCE	0	LF
2020201	SAWCUTTING	165	LF
2030302	ROADWAY EXCAVATION	36	CY
3030110	AGGREGATE BASE - 6" DEPTH	73	SY
3030111	AGGREGATE BASE - 10" DEPTH	51	SY
3400005	REMOVE AND REPLACE CONCRETE DRIVEWAY	580	SF
4060010	MILL ASPHALT PAVEMENT - 0" TO 2" DEPTH	147	SY
4060023	ASPHALTIC CONCRETE PAVEMENT, INITIAL/BASE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	51	SY
4060024	ASPHALTIC CONCRETE PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	197	SY
4060025	ASPHALTIC CONCRETE DRIVEWAY PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 3" DEPTH	0	SY
5040992	FURNISH AND CONSTRUCT IRRIGATION SIPHON REPLACEMENT	0	LS

**PP06 TOTAL ESTIMATED QUANTITIES:**

ITEM #	ITEM DESCRIPTION	QTY	UNIT
2020040	REMOVE ASPHALTIC CONCRETE PAVEMENT	223	SY
2020055	REMOVE AND SALVAGE SIGN	1	EA
2020100	REMOVE AND RELOCATE FENCE	0	LF
2020201	SAWCUTTING	874	LF
2030302	ROADWAY EXCAVATION	261	CY
3030110	AGGREGATE BASE - 6" DEPTH	653	SY
3030111	AGGREGATE BASE - 10" DEPTH	773	SY
4060010	MILL ASPHALT PAVEMENT - 0" TO 2" DEPTH	0	SY
4060023	ASPHALTIC CONCRETE PAVEMENT, INITIAL/BASE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	773	SY
4060024	ASPHALTIC CONCRETE PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	1792	SY
4060025	ASPHALTIC CONCRETE DRIVEWAY PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 3" DEPTH	0	SY
5040992	FURNISH AND CONSTRUCT IRRIGATION SIPHON REPLACEMENT	1	LS

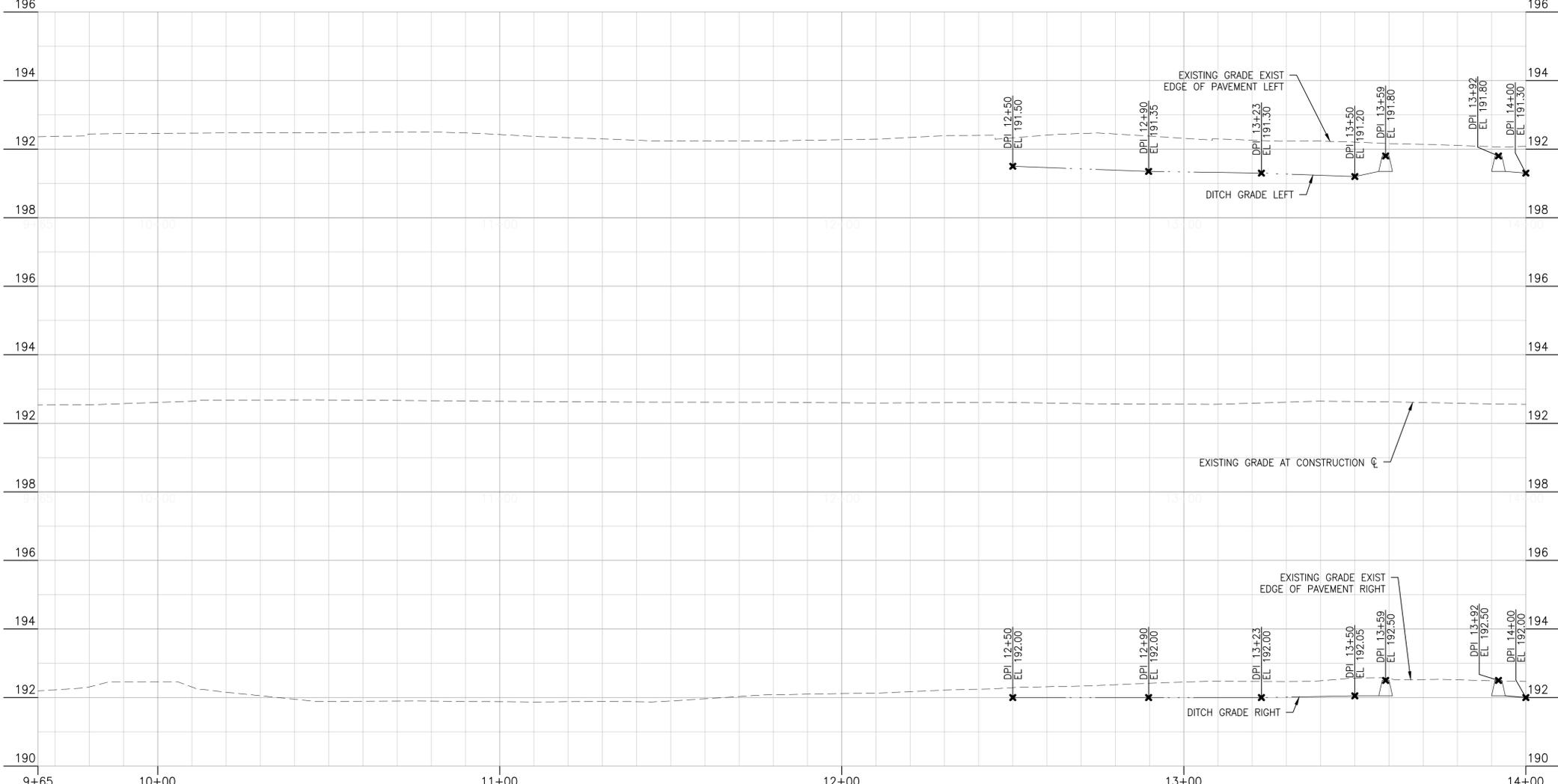
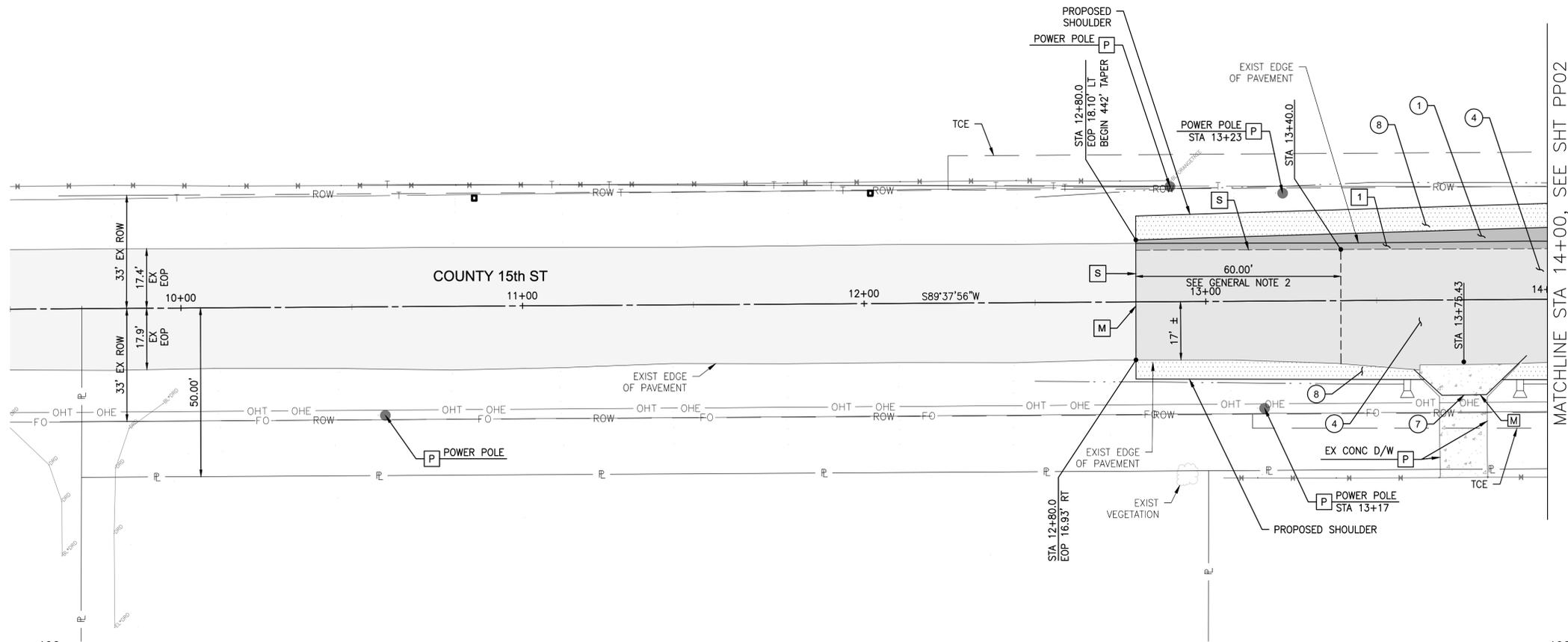
**PP07 TOTAL ESTIMATED QUANTITIES:**

ITEM #	ITEM DESCRIPTION	QTY	UNIT
2020040	REMOVE ASPHALTIC CONCRETE PAVEMENT	259	SY
2020055	REMOVE AND SALVAGE SIGN	1	EA
2020100	REMOVE AND RELOCATE FENCE	154	LF
2020201	SAWCUTTING	867	LF
2030302	ROADWAY EXCAVATION	328	CY
3030110	AGGREGATE BASE - 6" DEPTH	623	SY
3030111	AGGREGATE BASE - 10" DEPTH	927	SY
4060010	MILL ASPHALT PAVEMENT - 0" TO 2" DEPTH	0	SY
4060023	ASPHALTIC CONCRETE PAVEMENT, INITIAL/BASE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	623	SY
4060024	ASPHALTIC CONCRETE PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	2020	SY
4060025	ASPHALTIC CONCRETE DRIVEWAY PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 3" DEPTH	61	SY
5040992	FURNISH AND CONSTRUCT IRRIGATION SIPHON REPLACEMENT	0	LS

**PP08 TOTAL ESTIMATED QUANTITIES:**

ITEM #	ITEM DESCRIPTION	QTY	UNIT
2020040	REMOVE ASPHALTIC CONCRETE PAVEMENT	48	SY
2020055	REMOVE AND SALVAGE SIGN	2	EA
2020100	REMOVE AND RELOCATE FENCE	0	LF
2020201	SAWCUTTING	227	LF
2030302	ROADWAY EXCAVATION	41	CY
3030110	AGGREGATE BASE - 6" DEPTH	179	SY
3030111	AGGREGATE BASE - 10" DEPTH	584	SY
4060010	MILL ASPHALT PAVEMENT - 0" TO 2" DEPTH	151	SY
4060023	ASPHALTIC CONCRETE PAVEMENT, INITIAL/BASE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	584	SY
4060024	ASPHALTIC CONCRETE PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 2" DEPTH	315	SY
4060025	ASPHALTIC CONCRETE DRIVEWAY PAVEMENT, SURFACE COURSE, TYPE C, 3/4" MIX - 3" DEPTH	0	SY
5040992	FURNISH AND CONSTRUCT IRRIGATION SIPHON REPLACEMENT	0	LS

 <p>Contact Arizona 811 at least two full working days before you begin excavation</p> <p>Call 811 or click Arizona811.com</p>		 <p>Expires: 12-31-2020</p>	
DATE	DESCRIPTION	APPROVED	
 <p>6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350</p>		<p><b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA</p> <p><b>COUNTY 15TH STREET - AVENUE A INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 &amp; NW 33</p>	
DATE: 07-14-2020	<p><b>QUANTITIES</b></p>		
DESIGN: SP			
DRAWN: MG			
CHECKED: SP	HORIZ SCALE:	PURCHASE ORDER 150552	<b>GN04</b>
RICK PROJ. No. 5069	VERT SCALE:	YUMA CO CIP NO. 1.9915-E	SHEET 5 OF 30



**REMOVAL/RELOCATE NOTES**

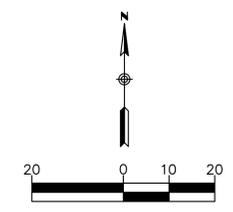
NO.	DESCRIPTION	NO.	DESCRIPTION
1	REMOVE PAVEMENT	9	REMOVE STEEL POST
2	NOT USED	10	REMOVE VEGETATION (PAID FOR AS TREE PRUNING & TRIMMING)
3	NOT USED	11	NOT USED
4	REMOVE, REPLACE & RELOCATE FENCING	12	NOT USED
5	RELOCATE POWER POLE (BY OTHERS)	S	SAWCUT & MATCH EXISTING PAVEMENT
6	REMOVE POWER POLE (BY OTHERS)	P	PROTECT IN PLACE
7	REMOVE & SALVAGE TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS	M	MATCH EXISTING
8	NOT USED		

**CONSTRUCTION NOTES**

NO.	DESCRIPTION	NO.	DESCRIPTION
1	ASPHALT PAVEMENT (4") ON AGGREGATE BASE COURSE (10") ON PREPARED SUBGRADE, PER PAVEMENT SECTION NO. 1, SHT GN03	6	PROPOSED TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS
2	INSTALL TYPE "A" CONCRETE CURB	7	REMOVE & REPLACE CONCRETE DRIVEWAY PER DETAIL 5 SHEET GN03
3	REPLACE IRRIGATION SIPHON, SEE DET, SHT DT01	8	ABC SHOULDER PER STRUCTURAL SECTION No. 2, SHT GN03
4	OVERLAY EXISTING ASPHALT PAVEMENT	9	5' CURB TRANSITION (INCLUDED IN TYPE "A" CURB PAY ITEM)
5	TRAFFIC SIGNAL EQUIPMENT AND UNDERGROUND CONDUIT, SEE TRAFFIC SIGNAL PLAN SHTS TS01-TS04	10	ASPHALT & ABC DRIVEWAY ENTRANCE PER MODIFIED YUMA COUNTY STD DTL 3-220, SEE DET 4, SHT GN03

**GENERAL NOTES**

- CONSTRUCTION CALLOUTS DIMENSIONED TO ROADWAY CONSTRUCTION CENTERLINE (C)
- STARTING AT A SAWCUT LINE AT THE BEGINNING OF EACH APPROACH, MILL THE EXISTING ASPHALT TO A 2" DEPTH AT THE POINT WHERE THE NEW ASPHALT OVERLAY TIES INTO AND MATCHES THE EXISTING ASPHALT SURFACE, OVER A 60' LENGTH, TRANSITION THE MILLING DEPTH FROM 2" TO 0" TO PROVIDE A SMOOTH AND UNIFORM TRANSITION OF THE NEW ASPHALT SURFACE TO MATCH THE EXISTING ASPHALT SURFACE
- WORK ON BUREAU OF RECLAMATION RIGHT OF WAY IS THROUGH A LICENSE AGREEMENT WITH YUMA COUNTY AND IS SUBJECT TO ITS TERMS AND CONDITIONS

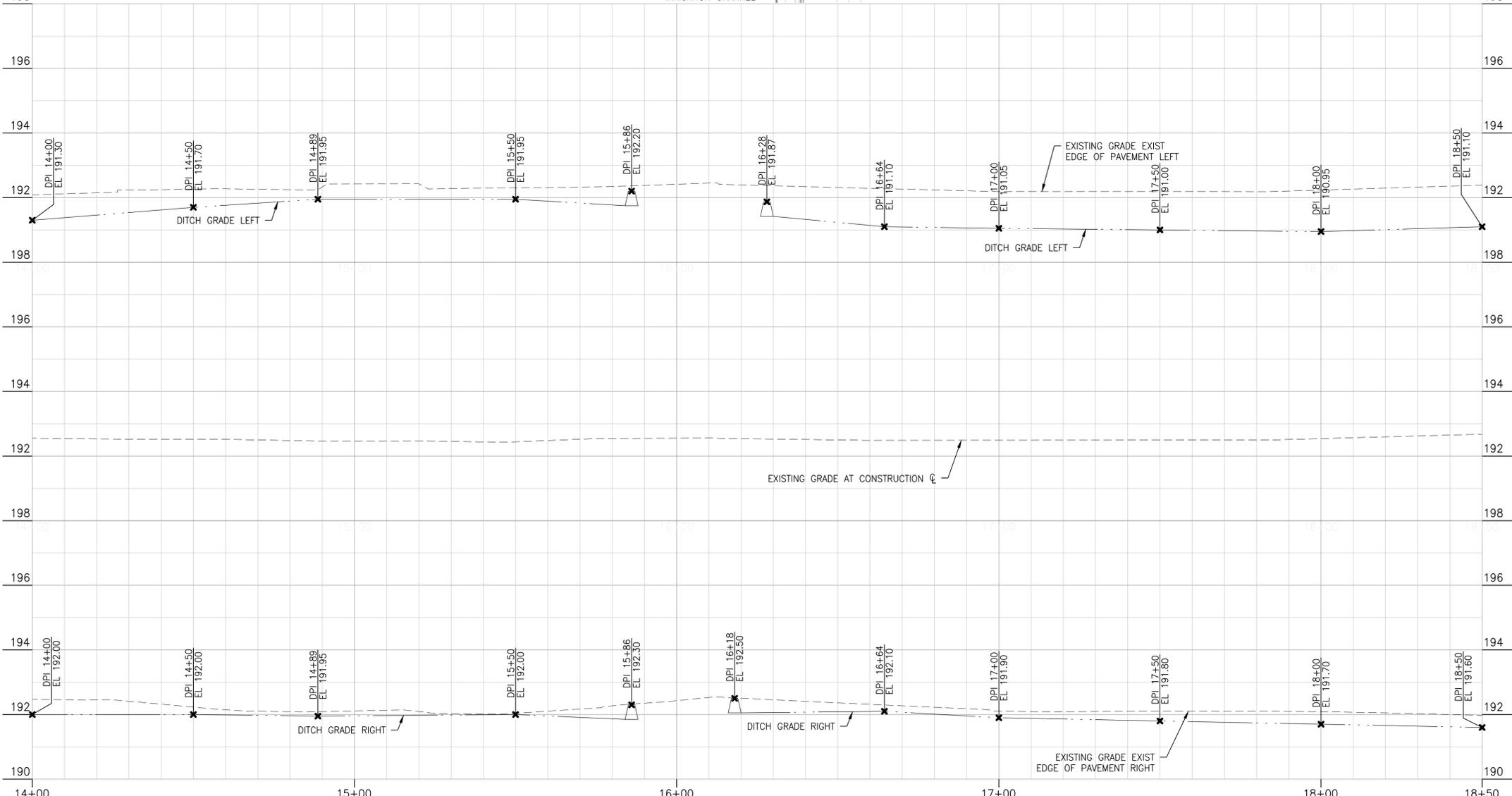
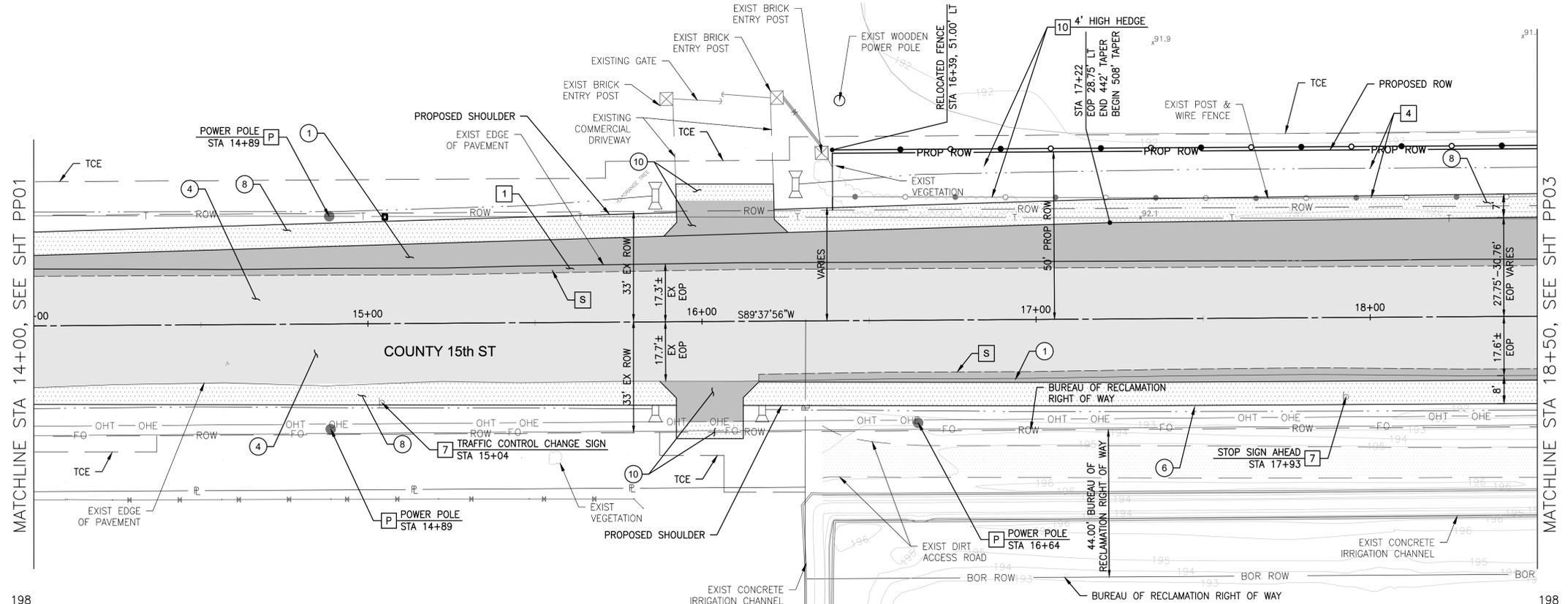


07/14/2020	WIDENED PAVEMENT 2 FEET	
DATE	DESCRIPTION	APPROVED

**RICK ENGINEERING COMPANY**  
 6150 NORTH 16TH STREET  
 PHOENIX, AZ 85016  
 602.957.3350  
 Tucson - San Diego - Riverside - Orange  
 Sacramento - San Luis Obispo - Denver  
 rickengineering.com

**YUMA COUNTY**  
 DEPARTMENT OF ENGINEERING  
 STATE OF ARIZONA  
**COUNTY 15TH STREET - AVENUE A**  
**INTERSECTION IMPROVEMENT PROJECT**  
 SECTIONS SW 28, SE 29, NE 32 & NW 33

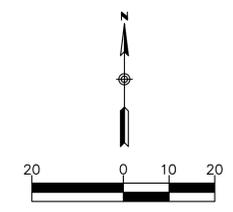
DATE: 07-14-2020	<b>PLAN AND PROFILE SHEET</b>	
DESIGN: SP	<b>STA 12+80 TO STA 14+00</b>	
DRAWN: MG	CHECKED: SP	HORIZ SCALE: 1"=20'
RICK PROJ. No. 5069	VERT SCALE: 1"=2'	PURCHASE ORDER 150552
		YUMA CO. CIP NO. 1.9915-E
		PP01 SHEET 6 OF 30



REMOVAL/RELOCATE NOTES	
NO.	DESCRIPTION
1	REMOVE PAVEMENT
2	NOT USED
3	NOT USED
4	REMOVE, REPLACE & RELOCATE FENCING
5	RELOCATE POWER POLE (BY OTHERS)
6	REMOVE POWER POLE (BY OTHERS)
7	REMOVE & SALVAGE TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS
8	NOT USED
9	REMOVE STEEL POST
10	REMOVE VEGETATION (PAID FOR AS TREE PRUNING & TRIMMING)
11	NOT USED
12	NOT USED
S	SAWCUT & MATCH EXISTING PAVEMENT
P	PROTECT IN PLACE
M	MATCH EXISTING

CONSTRUCTION NOTES	
NO.	DESCRIPTION
1	ASPHALT PAVEMENT (4") ON AGGREGATE BASE COURSE (10") ON PREPARED SUBGRADE, PER PAVEMENT SECTION NO. 1, SHT GN03
2	INSTALL TYPE "A" CONCRETE CURB
3	REPLACE IRRIGATION SIPHON, SEE DET, SHT DT01
4	OVERLAY EXISTING ASPHALT PAVEMENT
5	TRAFFIC SIGNAL EQUIPMENT AND UNDERGROUND CONDUIT, SEE TRAFFIC SIGNAL PLAN SHTS TS01-TS04
6	PROPOSED TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS
7	REMOVE & REPLACE CONCRETE DRIVEWAY PER DETAIL 5 SHEET GN03
8	ABC SHOULDER PER STRUCTURAL SECTION No. 2, SHT GN03
9	5' CURB TRANSITION (INCLUDED IN TYPE "A" CURB PAY ITEM)
10	ASPHALT & ABC DRIVEWAY ENTRANCE PER MODIFIED YUMA COUNTY STD DTL 3-220, SEE DET 4, SHT GN03

- GENERAL NOTES**
- CONSTRUCTION CALLOUTS DIMENSIONED TO ROADWAY CONSTRUCTION CENTERLINE (C)
  - STARTING AT A SAWCUT LINE AT THE BEGINNING OF EACH APPROACH, MILL THE EXISTING ASPHALT TO A 2" DEPTH AT THE POINT WHERE THE NEW ASPHALT OVERLAY TIES INTO AND MATCHES THE EXISTING ASPHALT SURFACE, OVER A 60' LENGTH, TRANSITION THE MILLING DEPTH FROM 2" TO 0" TO PROVIDE A SMOOTH AND UNIFORM TRANSITION OF THE NEW ASPHALT SURFACE TO MATCH THE EXISTING ASPHALT SURFACE
  - WORK ON BUREAU OF RECLAMATION RIGHT OF WAY IS THROUGH A LICENSE AGREEMENT WITH YUMA COUNTY AND IS SUBJECT TO ITS TERMS AND CONDITIONS



Contact Arizona 811 at least two full working days before you begin excavation

**ARIZONA**

Call 811 or click Arizona811.com

REGISTERED PROFESSIONAL ENGINEER

CERTIFICATE NO. 34425

DALE E. MILLER

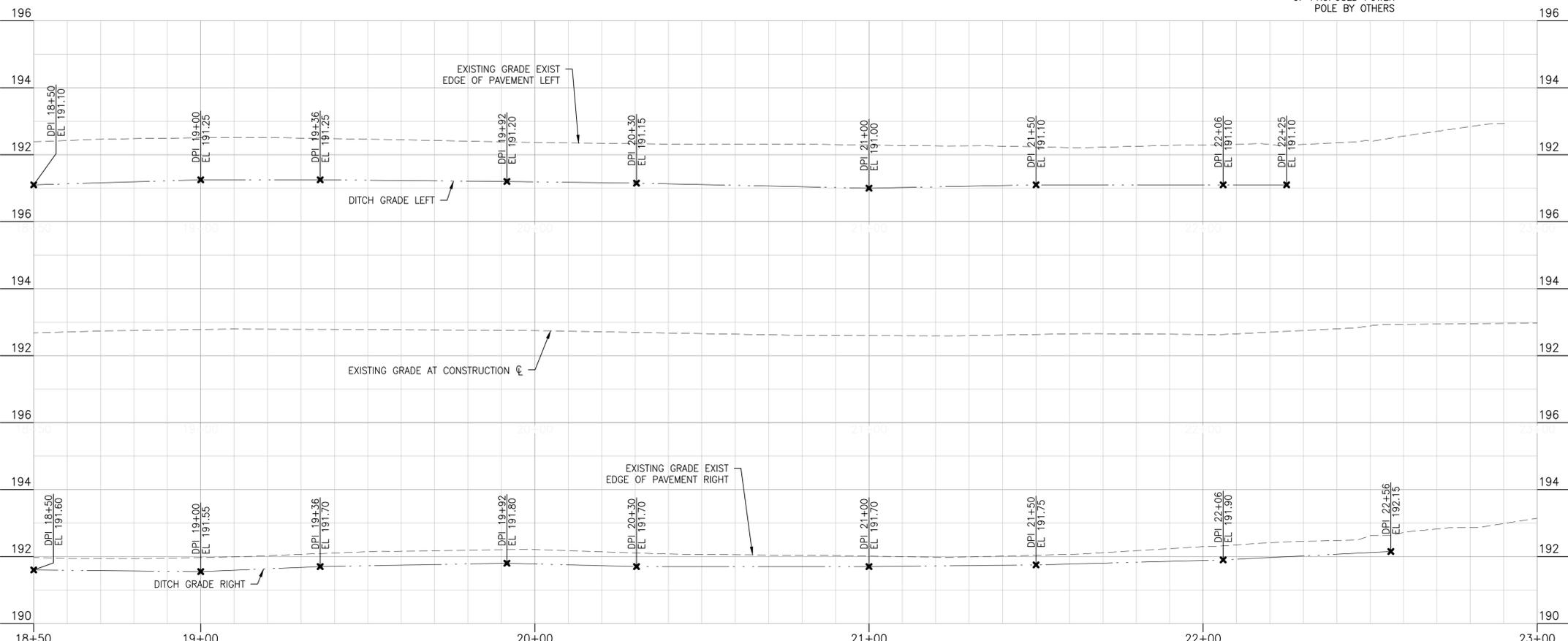
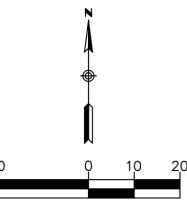
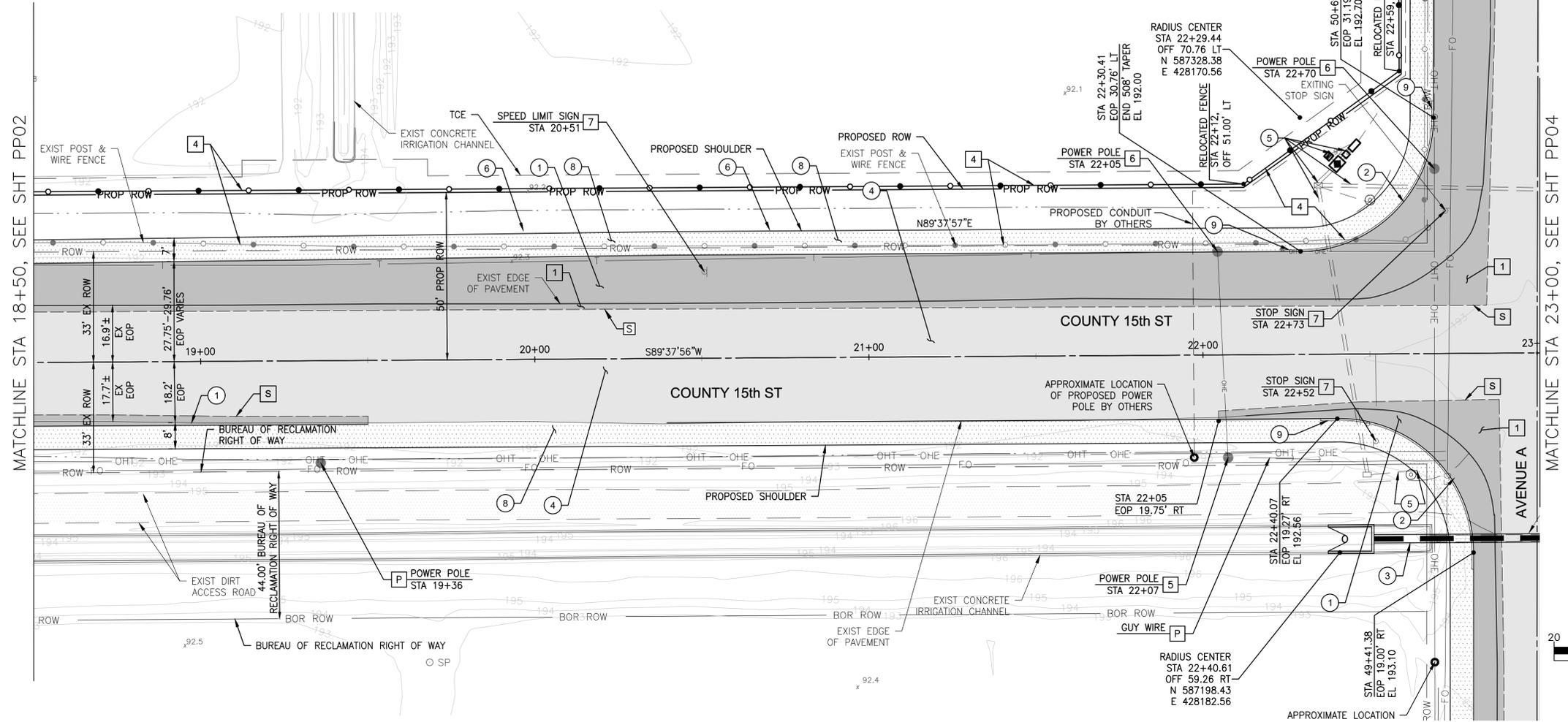
ARIZONA, U.S.A.

Expires: 12-31-2020

07/14/2020	WIDENED PAVEMENT 2 FEET	APPROVED
DATE	DESCRIPTION	APPROVED
<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA		
<b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 & NW 33		
<b>PLAN AND PROFILE SHEET</b> <b>STA 14+00 TO STA 18+50</b>		
DATE: 07-14-2020	HORIZ SCALE: 1"=20'	PURCHASE ORDER 150552
DESIGN: SP	VERT SCALE: 1"=2'	PP02
DRAWN: MG	RICK PROJ. No. 5069	SHEET 7 OF 30
CHECKED: SP	YUMA CO CIP NO. 1.9915-E	

MATCHLINE STA 18+50, SEE SHT PP02

MATCHLINE STA 23+00, SEE SHT PP04



REMOVAL/RELOCATE NOTES

NO.	DESCRIPTION	NO.	DESCRIPTION
1	REMOVE PAVEMENT	9	REMOVE STEEL POST
2	NOT USED	10	REMOVE VEGETATION (PAID FOR AS TREE PRUNING & TRIMMING)
3	NOT USED	11	NOT USED
4	REMOVE, REPLACE & RELOCATE FENCING	12	NOT USED
5	RELOCATE POWER POLE (BY OTHERS)	S	SAWCUT & MATCH EXISTING PAVEMENT
6	REMOVE POWER POLE (BY OTHERS)	P	PROTECT IN PLACE
7	REMOVE & SALVAGE TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS	M	MATCH EXISTING
8	NOT USED		

CONSTRUCTION NOTES

NO.	DESCRIPTION	NO.	DESCRIPTION
1	ASPHALT PAVEMENT (4") ON AGGREGATE BASE COURSE (10") ON PREPARED SUBGRADE, PER PAVEMENT SECTION NO. 1, SHT GN03	6	PROPOSED TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS
2	INSTALL TYPE "A" CONCRETE CURB	7	REMOVE & REPLACE CONCRETE DRIVEWAY PER DETAIL 5 SHEET GN03
3	REPLACE IRRIGATION SIPHON, SEE DET, SHT DT01	8	ABC SHOULDER PER STRUCTURAL SECTION No. 2, SHT GN03
4	OVERLAY EXISTING ASPHALT PAVEMENT	9	5' CURB TRANSITION (INCLUDED IN TYPE "A" CURB PAY ITEM)
5	TRAFFIC SIGNAL EQUIPMENT AND UNDERGROUND CONDUIT, SEE TRAFFIC SIGNAL PLAN SHTS TS01-TS04	10	ASPHALT & ABC DRIVEWAY ENTRANCE PER MODIFIED YUMA COUNTY STD DTL 3-220, SEE DET 4, SHT GN03

GENERAL NOTES

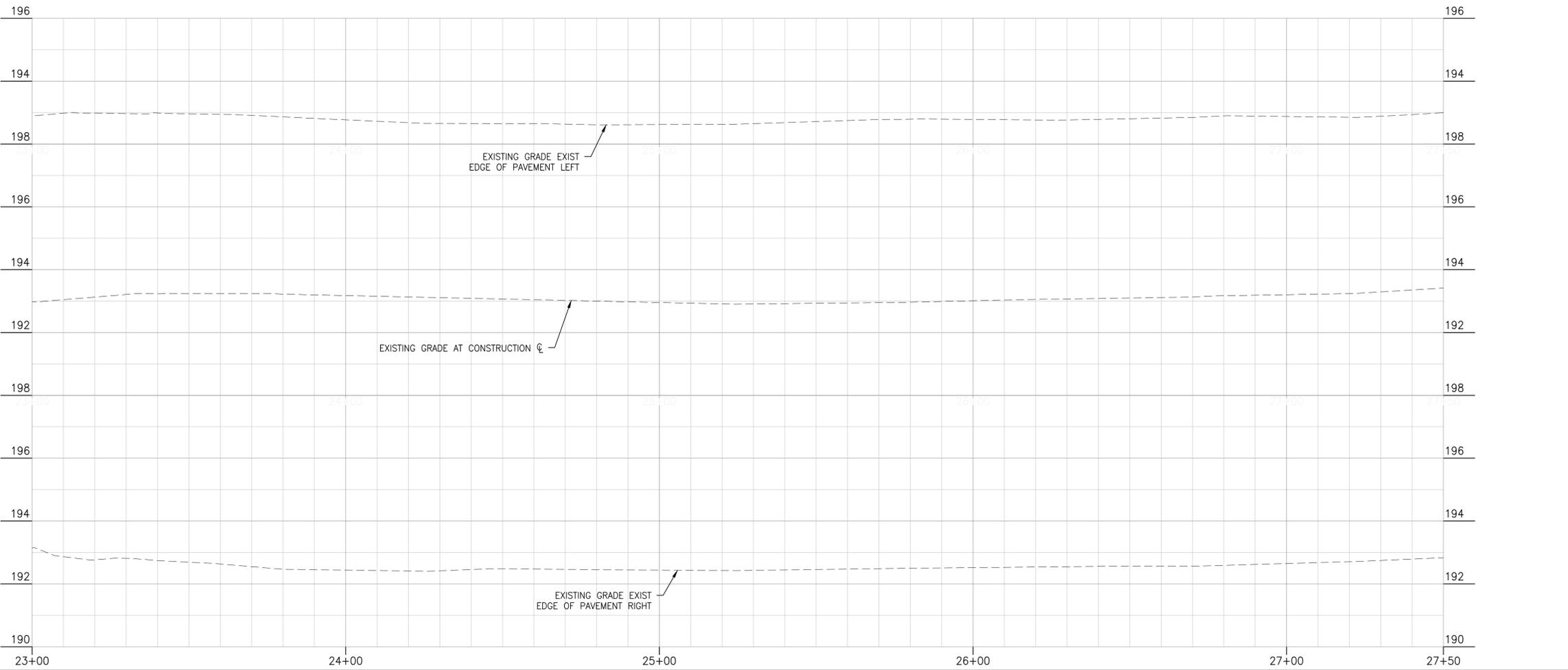
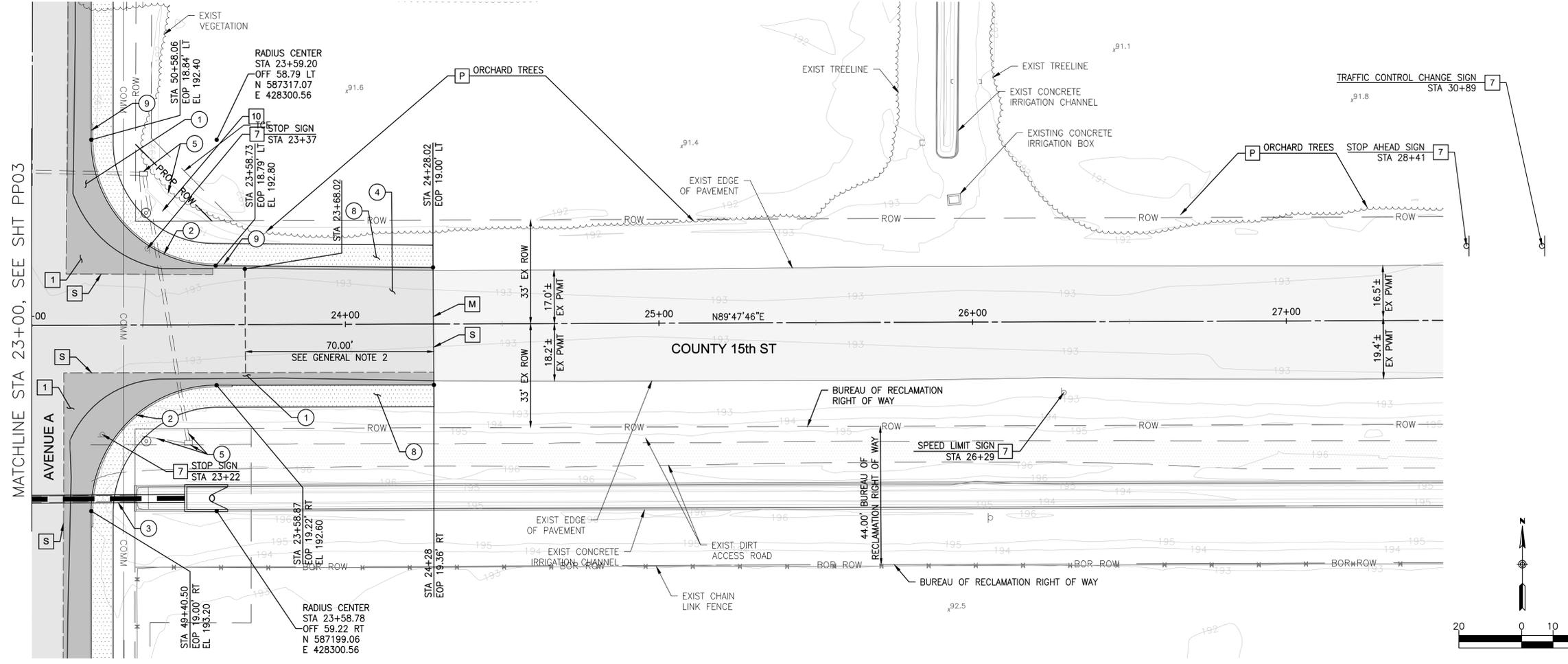
- CONSTRUCTION CALLOUTS DIMENSIONED TO ROADWAY CONSTRUCTION CENTERLINE (CL)
- STARTING AT A SAWCUT LINE AT THE BEGINNING OF EACH APPROACH, MILL THE EXISTING ASPHALT TO A 2" DEPTH AT THE POINT WHERE THE NEW ASPHALT OVERLAY TIES INTO AND MATCHES THE EXISTING ASPHALT SURFACE, OVER A 60' LENGTH, TRANSITION THE MILLING DEPTH FROM 2" TO 0" TO PROVIDE A SMOOTH AND UNIFORM TRANSITION OF THE NEW ASPHALT SURFACE TO MATCH THE EXISTING ASPHALT SURFACE
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Expires: 12-31-2020

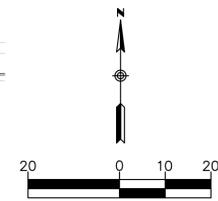
DATE: 07/14/2020	DESCRIPTION: WIDENED PAVEMENT 2 FEET	APPROVED:
<p><b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA</p> <p><b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 &amp; NW 33</p>		
<p><b>PLAN AND PROFILE SHEET</b> <b>STA 18+50 TO STA 23+00</b></p>		
CHECKED: SP	HORIZ SCALE: 1"=20'	PURCHASE ORDER: 150552
RICK PROJ. No. 5069	VERT SCALE: 1"=2'	YUMA CO CIP NO. 1.9915-E
		PP03 SHEET 8 OF 30



REMOVAL/RELOCATE NOTES	
NO.	DESCRIPTION
1	REMOVE PAVEMENT
2	NOT USED
3	NOT USED
4	REMOVE, REPLACE & RELOCATE FENCING
5	RELOCATE POWER POLE (BY OTHERS)
6	REMOVE POWER POLE (BY OTHERS)
7	REMOVE & SALVAGE TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS
8	NOT USED
9	REMOVE STEEL POST
10	REMOVE VEGETATION (PAID FOR AS TREE PRUNING & TRIMMING)
11	NOT USED
12	NOT USED
S	SAWCUT & MATCH EXISTING PAVEMENT
P	PROTECT IN PLACE
M	MATCH EXISTING

CONSTRUCTION NOTES	
NO.	DESCRIPTION
1	ASPHALT PAVEMENT (4") ON AGGREGATE BASE COURSE (10") ON PREPARED SUBGRADE, PER PAVEMENT SECTION NO. 1, SHT GN03
2	INSTALL TYPE "A" CONCRETE CURB
3	REPLACE IRRIGATION SIPHON, SEE DET, SHT DT01
4	OVERLAY EXISTING ASPHALT PAVEMENT
5	TRAFFIC SIGNAL EQUIPMENT AND UNDERGROUND CONDUIT, SEE TRAFFIC SIGNAL PLAN SHTS TS01-TS04
6	PROPOSED TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS
7	REMOVE & REPLACE CONCRETE DRIVEWAY PER DETAIL 5 SHEET GN03
8	ABC SHOULDER PER STRUCTURAL SECTION No. 2, SHT GN03
9	5' CURB TRANSITION (INCLUDED IN TYPE "A" CURB PAY ITEM)
10	ASPHALT & ABC DRIVEWAY ENTRANCE PER MODIFIED YUMA COUNTY STD DTL 3-220, SEE DET 4, SHT GN03

- GENERAL NOTES**
- CONSTRUCTION CALLOUTS DIMENSIONED TO ROADWAY CONSTRUCTION CENTERLINE (C).
  - STARTING AT A SAWCUT LINE AT THE BEGINNING OF EACH APPROACH, MILL THE EXISTING ASPHALT TO A 2" DEPTH AT THE POINT WHERE THE NEW ASPHALT OVERLAY TIES INTO AND MATCHES THE EXISTING ASPHALT SURFACE, OVER A 60' LENGTH, TRANSITION THE MILLING DEPTH FROM 2" TO 0" TO PROVIDE A SMOOTH AND UNIFORM TRANSITION OF THE NEW ASPHALT SURFACE TO MATCH THE EXISTING ASPHALT SURFACE.
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REGISTERED PROFESSIONAL ENGINEER

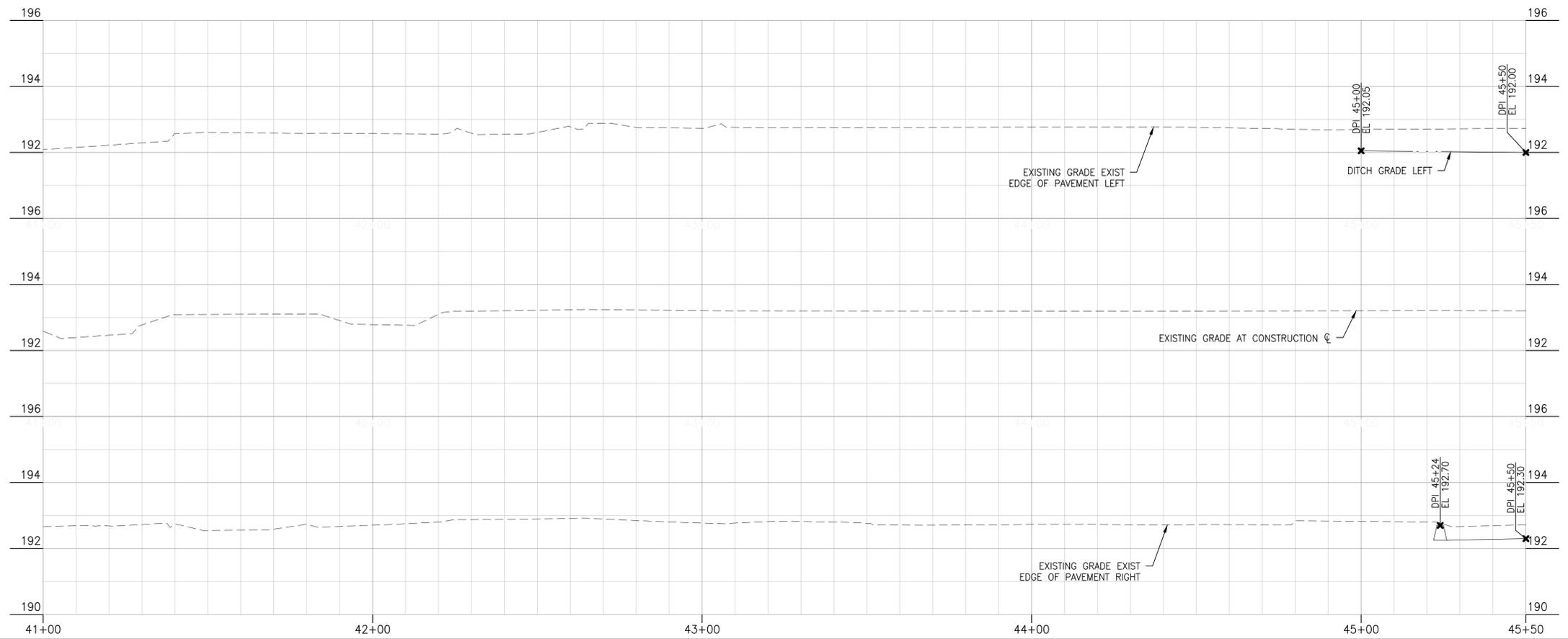
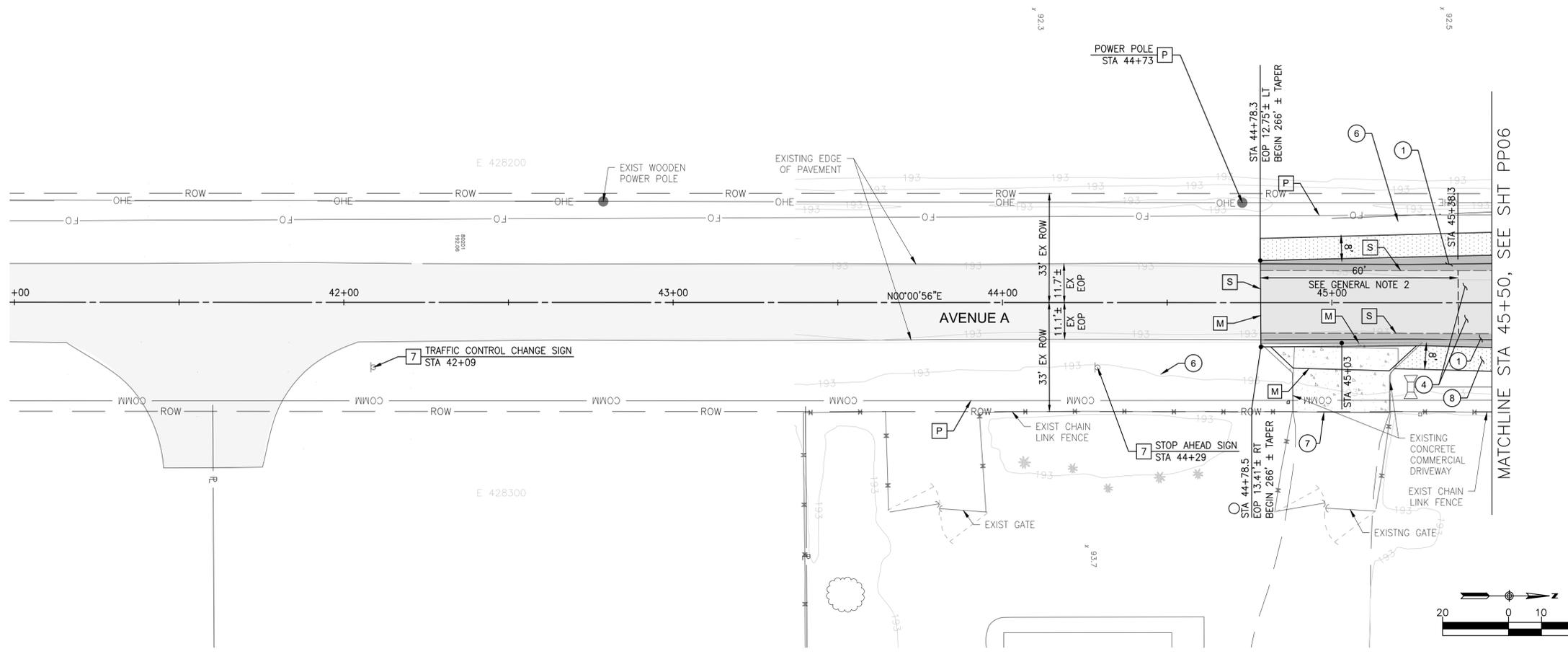
CERTIFICATE NO. 34425

DALE E. MILLER

ARIZONA, U.S.A.

Expires: 12-31-2020

07/14/2020	WIDENED PAVEMENT 2 FEET	APPROVED
DATE	DESCRIPTION	APPROVED
<p><b>RICK ENGINEERING COMPANY</b></p> <p>6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350</p> <p>Tucson - San Diego - Riverside - Orange Sacramento - San Luis Obispo - Denver rickengineering.com</p>		
<p><b>YUMA COUNTY</b></p> <p>DEPARTMENT OF ENGINEERING</p> <p>STATE OF ARIZONA</p> <p><b>COUNTY 15TH STREET - AVENUE A</b></p> <p><b>INTERSECTION IMPROVEMENT PROJECT</b></p> <p>SECTIONS SW 28, SE 29, NE 32 &amp; NW 33</p>		
<p><b>PLAN AND PROFILE SHEET</b></p> <p><b>STA 23+00 TO STA 27+50</b></p>		
DATE: 07-14-2020	HORIZ SCALE: 1"=20'	PURCHASE ORDER 150552
DESIGN: SP	VERT SCALE: 1"=2'	YUMA CO CIP NO. 1.9915-E
DRAWN: MG	<b>PP04</b>	
CHECKED: SP	RICK PROJ. No. 5069	SHEET 9 OF 30



**REMOVAL/RELOCATE NOTES**

NO.	DESCRIPTION	NO.	DESCRIPTION
1	REMOVE PAVEMENT	9	REMOVE STEEL POST
2	NOT USED	10	REMOVE VEGETATION (PAID FOR AS TREE PRUNING & TRIMMING)
3	NOT USED	11	NOT USED
4	REMOVE, REPLACE & RELOCATE FENCING	12	NOT USED
5	RELOCATE POWER POLE (BY OTHERS)	S	SAWCUT & MATCH EXISTING PAVEMENT
6	REMOVE POWER POLE (BY OTHERS)	P	PROTECT IN PLACE
7	REMOVE & SALVAGE TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS	M	MATCH EXISTING
8	NOT USED		

**CONSTRUCTION NOTES**

NO.	DESCRIPTION	NO.	DESCRIPTION
1	ASPHALT PAVEMENT (4") ON AGGREGATE BASE COURSE (10") ON PREPARED SUBGRADE, PER PAVEMENT SECTION NO. 1, SHT GN03	6	PROPOSED TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS
2	INSTALL TYPE "A" CONCRETE CURB	7	REMOVE & REPLACE CONCRETE DRIVEWAY PER DETAIL 5 SHEET GN03
3	REPLACE IRRIGATION SIPHON, SEE DET, SHT DT01	8	ABC SHOULDER PER STRUCTURAL SECTION No. 2, SHT GN03
4	OVERLAY EXISTING ASPHALT PAVEMENT	9	5' CURB TRANSITION (INCLUDED IN TYPE "A" CURB PAY ITEM)
5	TRAFFIC SIGNAL EQUIPMENT AND UNDERGROUND CONDUIT, SEE TRAFFIC SIGNAL PLAN SHTS TS01-TS04	10	ASPHALT & ABC DRIVEWAY ENTRANCE PER MODIFIED YUMA COUNTY STD DTL 3-220, SEE DET 4, SHT GN03

**GENERAL NOTES**

- CONSTRUCTION CALLOUTS DIMENSIONED TO ROADWAY CONSTRUCTION CENTERLINE (C)
- STARTING AT A SAWCUT LINE AT THE BEGINNING OF EACH APPROACH, MILL THE EXISTING ASPHALT TO A 2" DEPTH AT THE POINT WHERE THE NEW ASPHALT OVERLAY TIES INTO AND MATCHES THE EXISTING ASPHALT SURFACE, OVER A 60' LENGTH, TRANSITION THE MILLING DEPTH FROM 2" TO 0" TO PROVIDE A SMOOTH AND UNIFORM TRANSITION OF THE NEW ASPHALT SURFACE TO MATCH THE EXISTING ASPHALT SURFACE
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REGISTERED PROFESSIONAL ENGINEER

CERTIFICATE NO. 34425

DALE E. MILLER

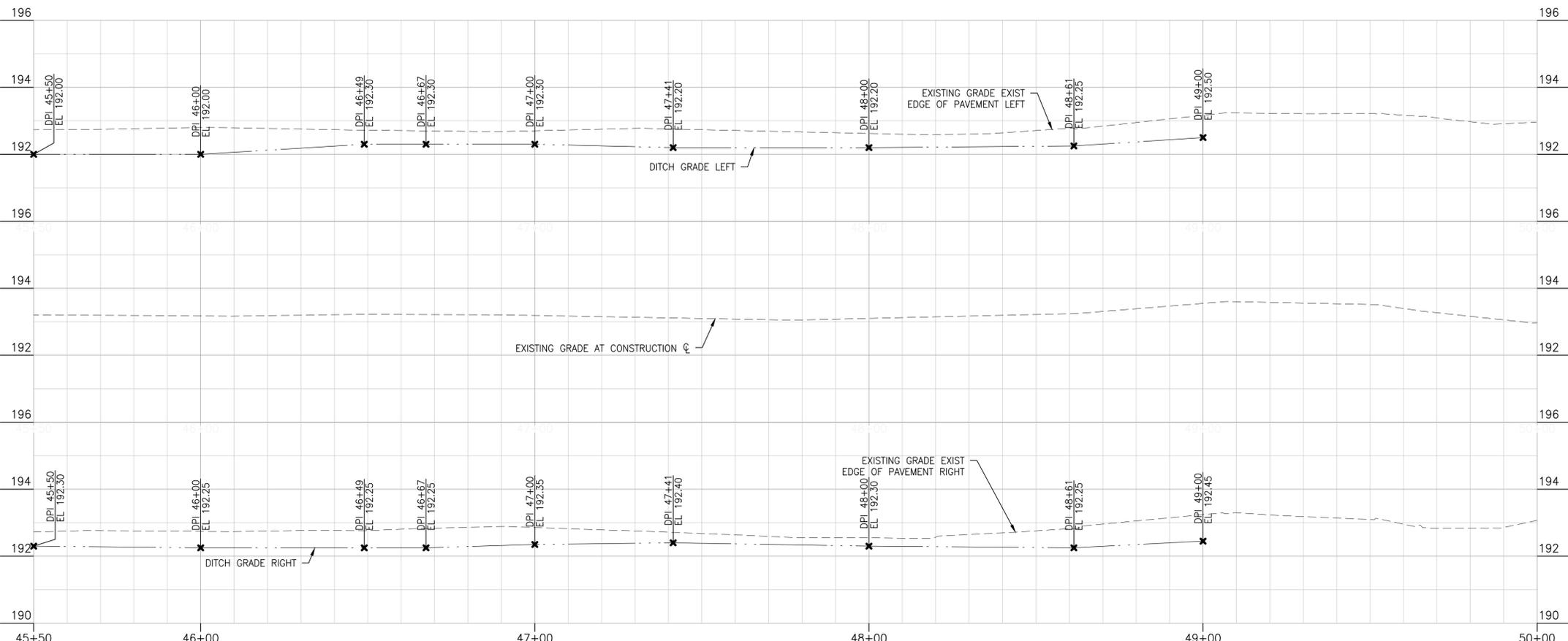
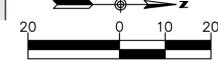
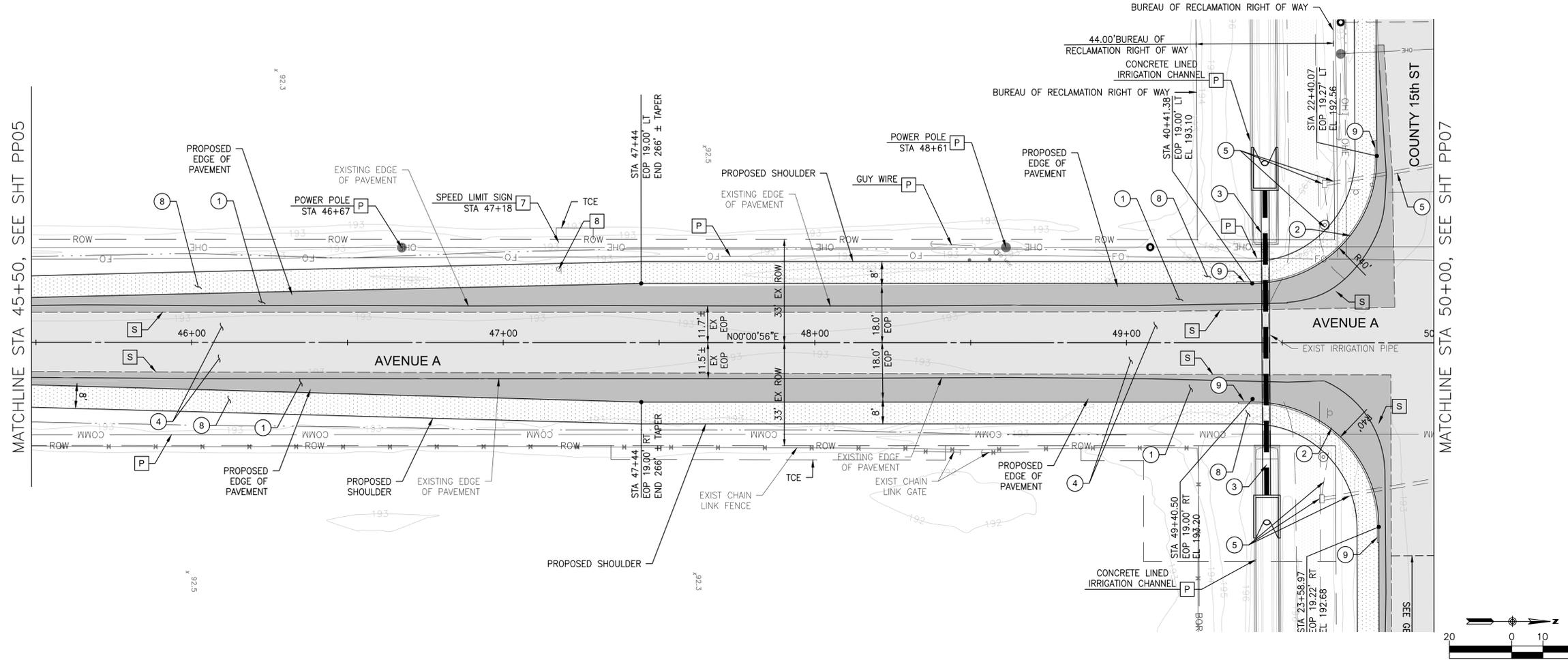
ARIZONA, U.S.A.

Expires: 12-31-2020

07/14/2020	WIDENED PAVEMENT 2 FEET	APPROVED
DATE	DESCRIPTION	APPROVED
<p><b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA</p> <p><b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 &amp; NW 33</p>		
<p><b>PLAN AND PROFILE SHEET</b> <b>STA 41+00 TO STA 45+50</b></p>		
DATE: 07-14-2020	HORIZ SCALE: 1"=20'	PURCHASE ORDER 150552
DESIGN: SP	VERT SCALE: 1"=2'	PP05
DRAWN: MG	RICK PROJ. No. 5069	SHEET 10 OF 30
CHECKED: SP	YUMA CO CIP NO. 1.9915-E	

MATCHLINE STA 45+50, SEE SHT PP05

MATCHLINE STA 50+00, SEE SHT PP07



REMOVAL/RELOCATE NOTES

NO.	DESCRIPTION	NO.	DESCRIPTION
1	REMOVE PAVEMENT	9	REMOVE STEEL POST
2	NOT USED	10	REMOVE VEGETATION (PAID FOR AS TREE PRUNING & TRIMMING)
3	NOT USED	11	NOT USED
4	REMOVE, REPLACE & RELOCATE FENCING	12	NOT USED
5	RELOCATE POWER POLE (BY OTHERS)	S	SAWCUT & MATCH EXISTING PAVEMENT
6	REMOVE POWER POLE (BY OTHERS)	P	PROTECT IN PLACE
7	REMOVE & SALVAGE TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS	M	MATCH EXISTING
8	NOT USED		

CONSTRUCTION NOTES

NO.	DESCRIPTION	NO.	DESCRIPTION
1	ASPHALT PAVEMENT (4") ON AGGREGATE BASE COURSE (10") ON PREPARED SUBGRADE, PER PAVEMENT SECTION NO. 1, SHT GN03	6	PROPOSED TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS
2	INSTALL TYPE "A" CONCRETE CURB	7	REMOVE & REPLACE CONCRETE DRIVEWAY PER DETAIL 5 SHEET GN03
3	REPLACE IRRIGATION SIPHON, SEE DET, SHT DT01	8	ABC SHOULDER PER STRUCTURAL SECTION No. 2, SHT GN03
4	OVERLAY EXISTING ASPHALT PAVEMENT	9	5' CURB TRANSITION (INCLUDED IN TYPE "A" CURB PAY ITEM)
5	TRAFFIC SIGNAL EQUIPMENT AND UNDERGROUND CONDUIT, SEE TRAFFIC SIGNAL PLAN SHTS TS01-TS04	10	ASPHALT & ABC DRIVEWAY ENTRANCE PER MODIFIED YUMA COUNTY STD DTL 3-220, SEE DET 4, SHT GN03

GENERAL NOTES

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- STARTING AT A SAWCUT LINE AT THE BEGINNING OF EACH APPROACH, MILL THE EXISTING ASPHALT TO A 2" DEPTH AT THE POINT WHERE THE NEW ASPHALT OVERLAY TIES INTO AND MATCHES THE EXISTING ASPHALT SURFACE, OVER A 60' LENGTH, TRANSITION THE MILLING DEPTH FROM 2" TO 0" TO PROVIDE A SMOOTH AND UNIFORM TRANSITION OF THE NEW ASPHALT SURFACE TO MATCH THE EXISTING ASPHALT SURFACE
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REGISTERED PROFESSIONAL ENGINEER

CERTIFICATE NO. 34425

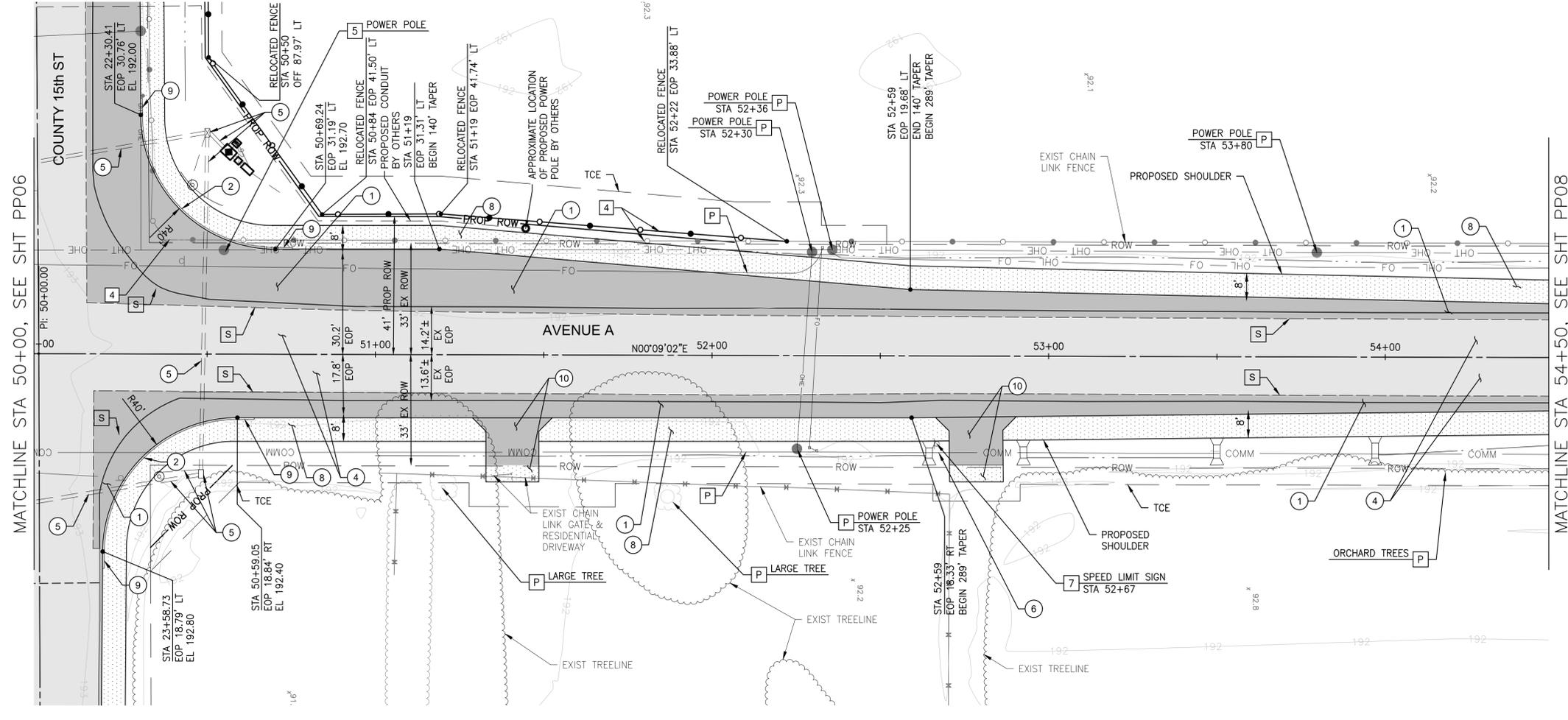
DALE E. MILLER

PHOENIX, AZ

ARIZONA, U.S.A.

Expires: 12-31-2020

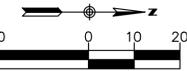
07/14/2020	WIDENED PAVEMENT 2 FEET	APPROVED
DATE	DESCRIPTION	APPROVED
<p><b>RICK ENGINEERING COMPANY</b> 6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350</p>		
<p><b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA</p> <p><b>COUNTY 15TH STREET - AVENUE A</b> INTERSECTION IMPROVEMENT PROJECT SECTIONS SW 28, SE 29, NE 32 &amp; NW 33</p>		
<p><b>PLAN AND PROFILE SHEET</b> <b>STA 45+50 TO STA 50+00</b></p>		
DATE: 07-14-2020	HORIZ SCALE: 1"=20'	PURCHASE ORDER 150552
DESIGN: SP	VERT SCALE: 1"=2'	PP06
DRAWN: MG	RICK PROJ. No. 5069	SHEET 11 OF 30
CHECKED: SP	YUMA CO CIP NO. 1.9915-E	



REMOVAL/RELOCATE NOTES	
NO.	DESCRIPTION
1	REMOVE PAVEMENT
2	NOT USED
3	NOT USED
4	REMOVE, REPLACE & RELOCATE FENCING
5	RELOCATE POWER POLE (BY OTHERS)
6	REMOVE POWER POLE (BY OTHERS)
7	REMOVE & SALVAGE TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS
8	NOT USED
9	REMOVE STEEL POST
10	REMOVE VEGETATION (PAID FOR AS TREE PRUNING & TRIMMING)
11	NOT USED
12	NOT USED
S	SAWCUT & MATCH EXISTING PAVEMENT
P	PROTECT IN PLACE
M	MATCH EXISTING

CONSTRUCTION NOTES	
NO.	DESCRIPTION
1	ASPHALT PAVEMENT (4") ON AGGREGATE BASE COURSE (10") ON PREPARED SUBGRADE, PER PAVEMENT SECTION NO. 1, SHT GN03
2	INSTALL TYPE "A" CONCRETE CURB
3	REPLACE IRRIGATION SIPHON, SEE DET, SHT DT01
4	OVERLAY EXISTING ASPHALT PAVEMENT
5	TRAFFIC SIGNAL EQUIPMENT AND UNDERGROUND CONDUIT, SEE TRAFFIC SIGNAL PLAN SHTS TS01-TS04
6	PROPOSED TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS
7	REMOVE & REPLACE CONCRETE DRIVEWAY PER DETAIL 5 SHEET GN03
8	ABC SHOULDER PER STRUCTURAL SECTION No. 2, SHT GN03
9	5' CURB TRANSITION (INCLUDED IN TYPE "A" CURB PAY ITEM)
10	ASPHALT & ABC DRIVEWAY ENTRANCE PER MODIFIED YUMA COUNTY STD DTL 3-220, SEE DET 4, SHT GN03

- GENERAL NOTES**
- CONSTRUCTION CALLOUTS DIMENSIONED TO ROADWAY CONSTRUCTION CENTERLINE (C)
  - STARTING AT A SAWCUT LINE AT THE BEGINNING OF EACH APPROACH, MILL THE EXISTING ASPHALT TO A 2" DEPTH AT THE POINT WHERE THE NEW ASPHALT OVERLAY TIES INTO AND MATCHES THE EXISTING ASPHALT SURFACE, OVER A 60' LENGTH, TRANSITION THE MILLING DEPTH FROM 2" TO 0" TO PROVIDE A SMOOTH AND UNIFORM TRANSITION OF THE NEW ASPHALT SURFACE TO MATCH THE EXISTING ASPHALT SURFACE
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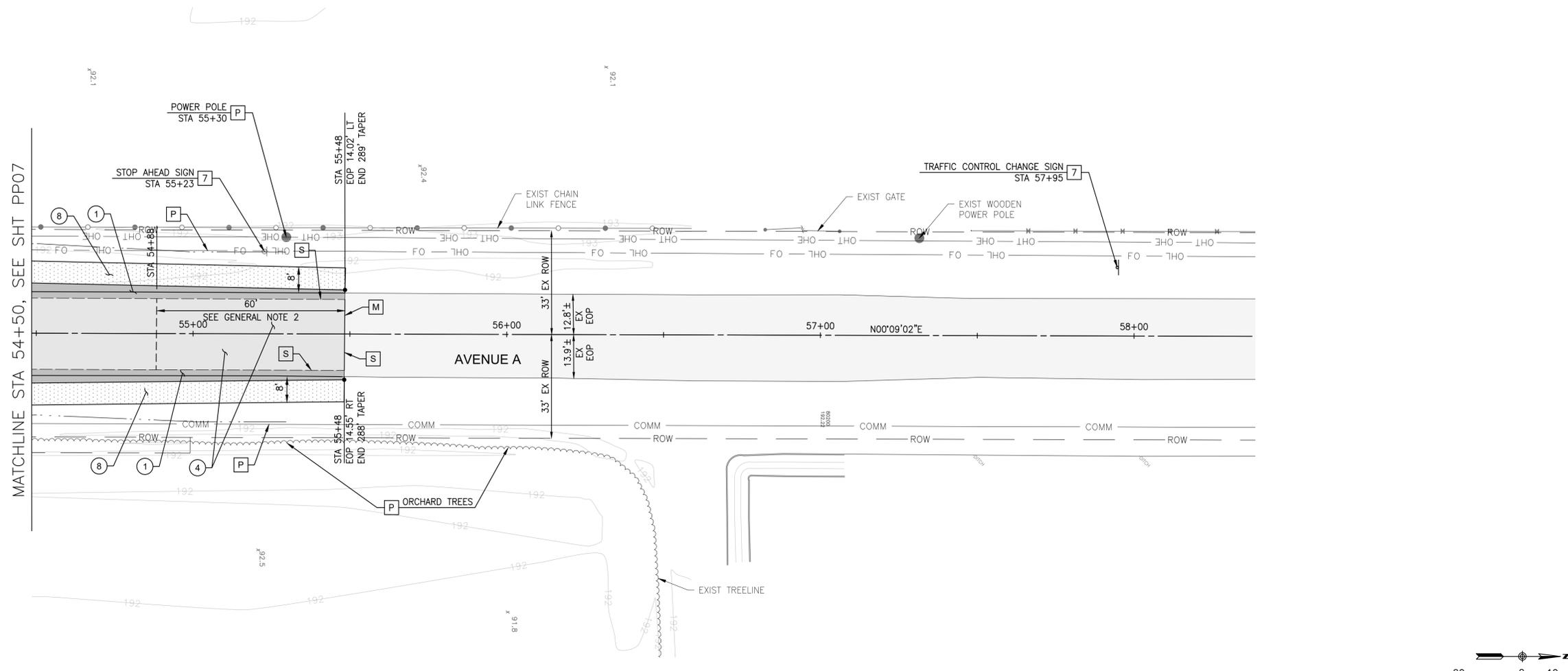
Call 811 or click Arizona811.com

*Dale E. Miller*

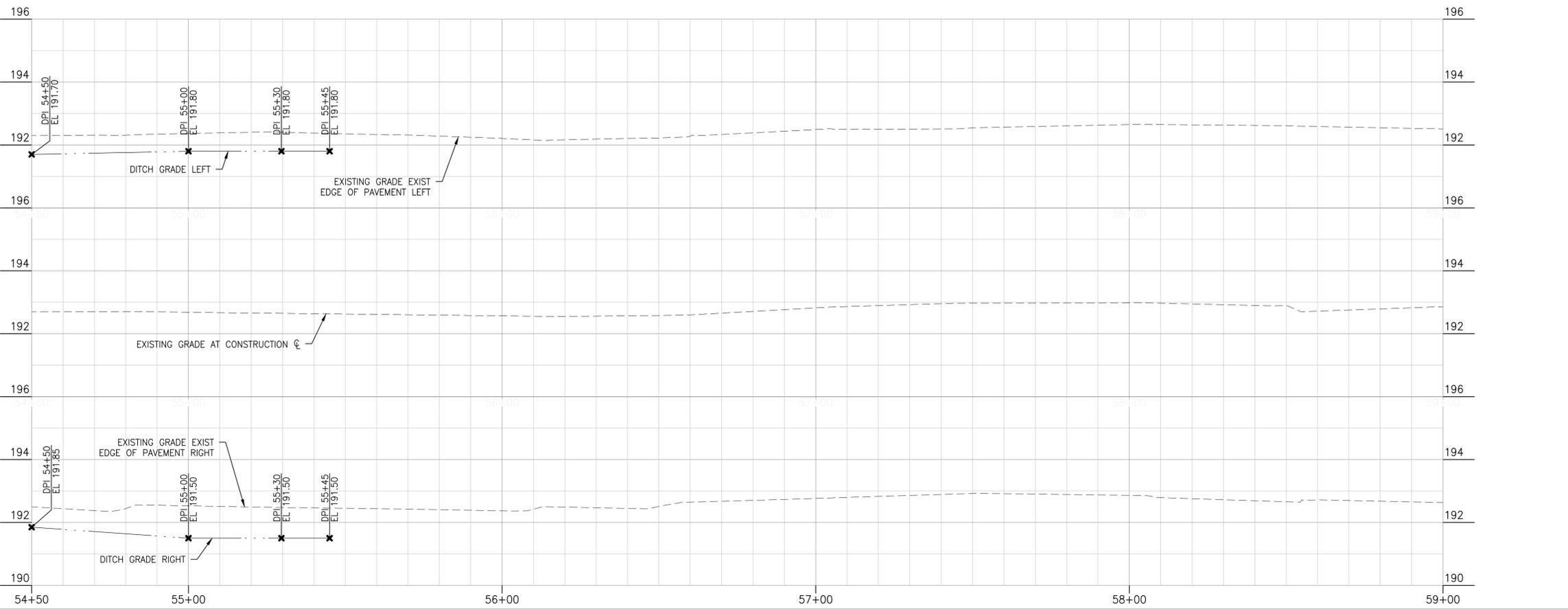
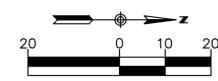
CERTIFICATE NO.  
34425  
DALE E.  
MILLER  
REGISTERED PROFESSIONAL ENGINEER  
ARIZONA, U.S.A.

Expires: 12-31-2020

07/14/2020	WIDENED PAVEMENT 2 FEET	APPROVED
DATE	DESCRIPTION	APPROVED
<p><b>RICK ENGINEERING COMPANY</b> 6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350</p> <p>Tucson - San Diego - Riverside - Orange Sacramento - San Luis Obispo - Denver rickengineering.com</p>		
<p><b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA</p> <p><b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 &amp; NW 33</p>		
<p><b>PLAN AND PROFILE SHEET</b> <b>STA 50+00 TO STA 54+50</b></p>		
DATE: 07-14-2020	HORIZ SCALE: 1"=20'	PURCHASE ORDER 150552
DESIGN: SP	VERT SCALE: 1"=2'	PP07
DRAWN: MG	RICK PROJ. No. 5069	SHEET 12 OF 30



MATCHLINE STA 54+50, SEE SHT PP07



REMOVAL/RELOCATE NOTES	
NO.	DESCRIPTION
1	REMOVE PAVEMENT
2	NOT USED
3	NOT USED
4	REMOVE, REPLACE & RELOCATE FENCING
5	RELOCATE POWER POLE (BY OTHERS)
6	REMOVE POWER POLE (BY OTHERS)
7	REMOVE & SALVAGE TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS
8	NOT USED
9	REMOVE STEEL POST
10	REMOVE VEGETATION (PAID FOR AS TREE PRUNING & TRIMMING)
11	NOT USED
12	NOT USED
S	SAWCUT & MATCH EXISTING PAVEMENT
P	PROTECT IN PLACE
M	MATCH EXISTING

CONSTRUCTION NOTES	
NO.	DESCRIPTION
1	ASPHALT PAVEMENT (4") ON AGGREGATE BASE COURSE (10") ON PREPARED SUBGRADE, PER PAVEMENT SECTION NO. 1, SHT GN03
2	INSTALL TYPE "A" CONCRETE CURB
3	REPLACE IRRIGATION SIPHON, SEE DET, SHT DT01
4	OVERLAY EXISTING ASPHALT PAVEMENT
5	TRAFFIC SIGNAL EQUIPMENT AND UNDERGROUND CONDUIT. SEE TRAFFIC SIGNAL PLAN SHTS TS01-TS04
6	PROPOSED TRAFFIC SIGN PER TRAFFIC MARKING & SIGNING PLANS
7	REMOVE & REPLACE CONCRETE DRIVEWAY PER DETAIL 5 SHEET GN03
8	ABC SHOULDER PER STRUCTURAL SECTION No. 2, SHT GN03
9	5' CURB TRANSITION (INCLUDED IN TYPE "A" CURB PAY ITEM)
10	ASPHALT & ABC DRIVEWAY ENTRANCE PER MODIFIED YUMA COUNTY STD DTL 3-220, SEE DET 4, SHT GN03

- GENERAL NOTES**
- CONSTRUCTION CALLOUTS DIMENSIONED TO ROADWAY CONSTRUCTION CENTERLINE (C)
  - STARTING AT A SAWCUT LINE AT THE BEGINNING OF EACH APPROACH, MILL THE EXISTING ASPHALT TO A 2" DEPTH AT THE POINT WHERE THE NEW ASPHALT OVERLAY TIES INTO AND MATCHES THE EXISTING ASPHALT SURFACE, OVER A 60' LENGTH, TRANSITION THE MILLING DEPTH FROM 2" TO 0" TO PROVIDE A SMOOTH AND UNIFORM TRANSITION OF THE NEW ASPHALT SURFACE TO MATCH THE EXISTING ASPHALT SURFACE
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REGISTERED PROFESSIONAL ENGINEER

CERTIFICATE NO. 34425

DALE E. MILLER

PHYSICIAN

ARIZONA, U.S.A.

Expires: 12-31-2020

DATE: 07/14/2020	DESCRIPTION: WIDENED PAVEMENT 2 FEET	APPROVED:
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**RICK ENGINEERING COMPANY**

6150 NORTH 16TH STREET  
PHOENIX, AZ 85016  
602.957.3350

Tucson - San Diego - Riverside - Orange  
Sacramento - San Luis Obispo - Denver  
rickengineering.com

**YUMA COUNTY**

DEPARTMENT OF ENGINEERING

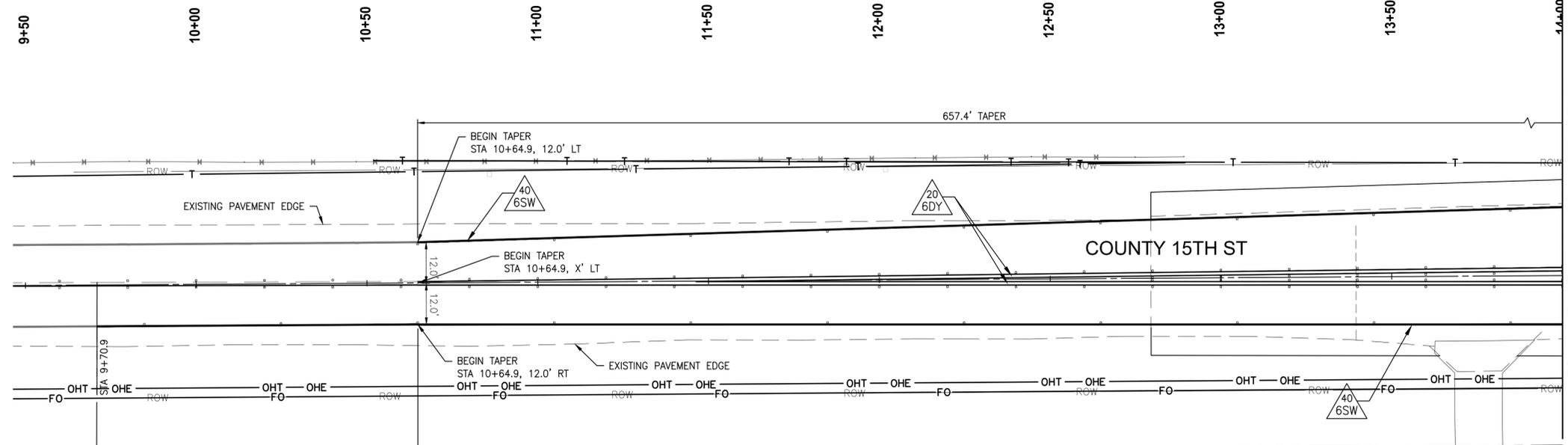
STATE OF ARIZONA

**COUNTY 15TH STREET - AVENUE A**

**INTERSECTION IMPROVEMENT PROJECT**

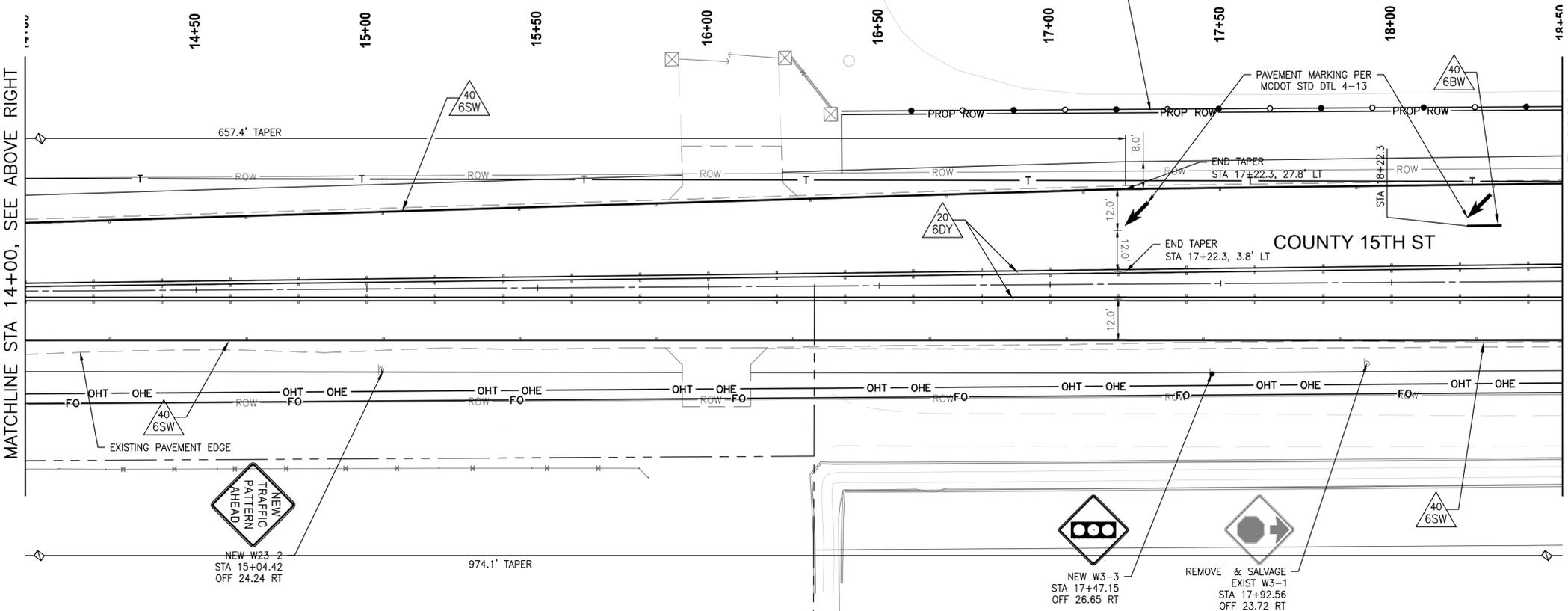
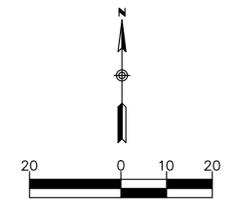
SECTIONS SW 28, SE 29, NE 32 & NW 33

DATE: 07-14-2020	<b>PLAN AND PROFILE SHEET</b>	PURCHASE ORDER: 150552	<b>STA 54+50 TO 59+00</b>
DESIGN: SP			
DRAWN: MG			
CHECKED: SP	HORIZ SCALE: 1"=20'	PURCHASE ORDER: 150552	PP08
RICK PROJ. No. 5069	VERT SCALE: 1"=2'	YUMA CO CIP NO. 1.9915-E	SHEET 13 OF 30



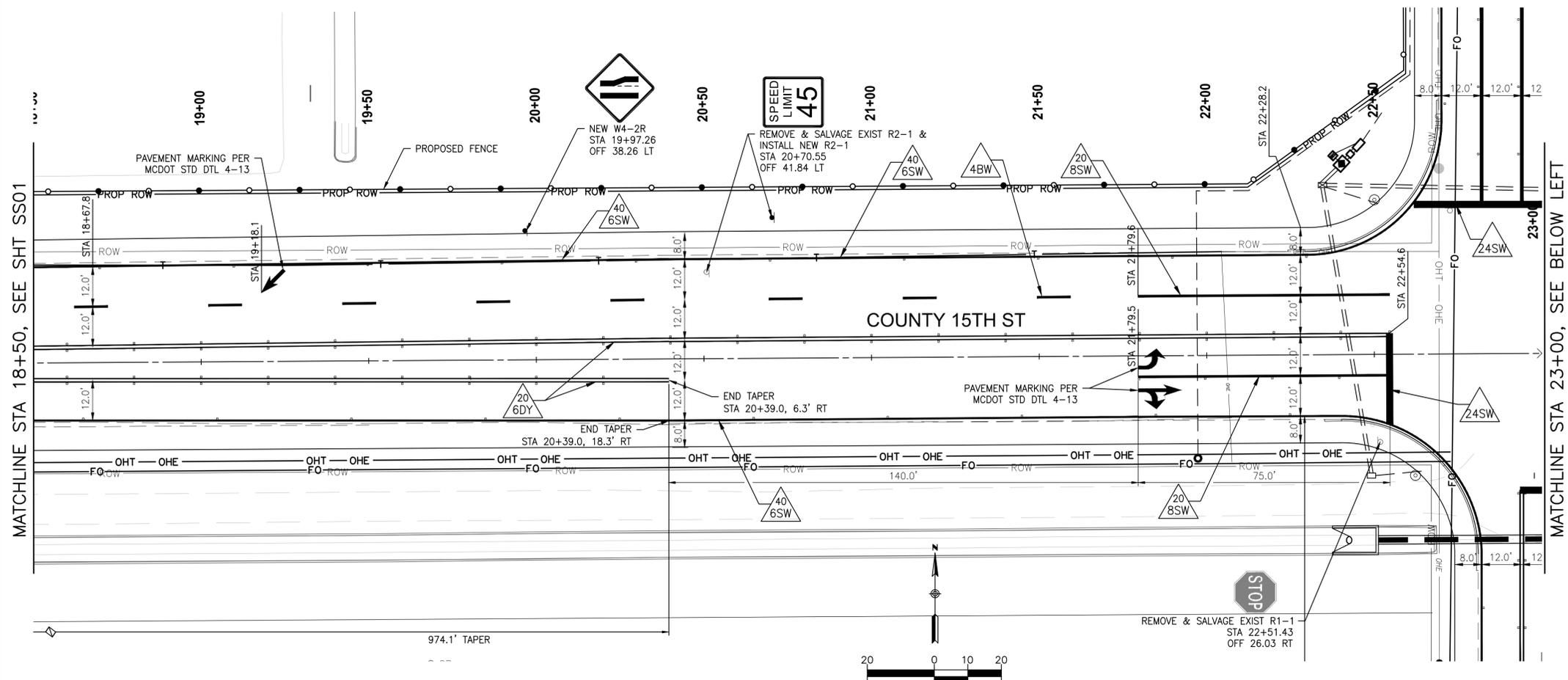
- LEGEND**
- X" SOLID WHITE (6", 8", 12" AND 24")
  - X" SOLID WHITE (6", 8", 12" AND 24") WITH TYPE "G" RPMS @ 20' SPACING PER MCDOT DTL 4-21
  - X" SOLID WHITE (6", 8", 12" AND 24") WITH TYPE "G" RPMS @ 40' SPACING PER MCDOT DTL 4-21
  - 6" DASHED WHITE LINE WITH A 2' LINE SEGMENT AND A 4' GAP
  - 6" SOLID DOUBLE YELLOW LINE WITH TYPE "D" RPMS @ 20' SPACING PER MCDOT DTL 4-21
  - 6" BROKEN WHITE LINE WITH 10' LINE SEGMENT AND A 30' GAP TYPE G RPMS AND 40' SPACING PER MCDOT DTL 4-21
- NOTE:  
OBLITERATION OF EXISTING MARKINGS IS CONSIDERED INCIDENTAL TO PAVEMENT MARKING BID ITEM. NO SEPARATE PAYMENT WILL BE MADE

- SIGNING AND STRIPING NOTES**
- SIGNING AND STRIPING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) ADOPTED BY THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) AND THE YUMA COUNTY STANDARD DETAILS.
  - SIGNING AND STRIPING LAYOUT SHALL BE APPROVED BY THE ENGINEERING INSPECTOR PRIOR TO ANY INSTALLATION. THE CONTRACTOR SHALL NOTIFY COUNTY ENGINEERING INSPECTION DIVISION AT LEAST 48-HOURS IN ADVANCE OF ANY SIGNING OR STRIPING INSTALLATION. SIGNING OR STRIPING INSTALLATIONS COMPLETED PRIOR TO CONTACTING THE COUNTY'S ENGINEERING INSPECTION DIVISION SHALL BE REMOVED AND/OR MODIFIED IF NOT DEEMED ADEQUATE BY THE ENGINEERING INSPECTOR.
  - ALL SIGNING AND PAVEMENT MARKING MATERIALS SHALL BE APPROVED BY YUMA COUNTY THROUGH A MATERIAL SUBMITTAL PROCESS PRIOR TO ORDERING.
- STRIPING**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PERMANENT PAVEMENT MARKINGS ON THE FINAL SURFACE COURSE, FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED.
  - THE DIMENSIONS SHOWN FOR PAVEMENT STRIPING ARE TO THE CENTER OF THE STRIPING, OR IN THE CASE OF DOUBLE STRIPING TO THE CENTER OF THE DOUBLE STRIPING AND THE FACE OF THE CURB.
  - AT THE COMPLETION OF THE FINAL PAVEMENT SURFACE, CENTER LINES, EDGE LINES AND LANE LINES SHALL BE STRIPED WITH ONE APPLICATION OF STANDARD REFLECTORIZED TRAFFIC PAINT, AT THE LOCATION OF THE PERMANENT STRIPING. THIS APPLICATION SHALL BE PLACED WITHIN 7 DAYS.
  - THE MARKINGS MUST CONTAIN 30% TO 40% (BY WEIGHT) REFLECTIVE GLASS INTER-MIXED BEADS. AN ADDITIONAL 10LBS OF GLASS BEADS MUST BE EVENLY APPLIED TO THE SURFACE OF THE MOLTEN MATERIAL PER 100 SQ. FT. OF LINE.
  - ALL STRIPING WILL BE APPLIED INITIALLY IN PAINT (ADOT SECTION 708). THE CONTRACTOR WILL BE REQUIRED TO RESTRIPE THE ENTIRE PROJECT BETWEEN 30 TO 45 WORKING DAYS AFTER INITIAL STRIPING. AT THIS TIME, ALL MARKINGS WILL BE RESTRIPE USING AN ALKYD EXTRUDED THERMOPLASTIC (ADOT SECTION 708).
  - THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER, BY SWEEPING AND AIR JET BLOWING, IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROADWAY SURFACE SHALL BE DRY AND THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 50 DEGREES F FOR THE PLACEMENT OF THERMOPLASTIC STRIPING.
  - WHEN STRIPE OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY APPROVED METHODS. PAINTING OVER STRIPING DOES NOT CONSTITUTE STRIPE OBLITERATION. TRAFFIC PAINT SHALL BE OBLITERATED BY A METHOD THAT IS IN COMPLIANCE WITH OSHA 29 CFR, PART 1926, LEAD EXPOSURE IN CONSTRUCTION, INTERIM FINAL RULE. SAND BLASTING IS PREFERRED. IF LEAD EXPOSURE PREVENTION MEASURES ARE REQUIRED, THE CONTRACTOR SHALL ENSURE THAT ALL PERSONNEL PRESENT ON THE JOB SITE ARE NOTIFIED OF THE ACTIVITY AND ADVISED OF NECESSARY PRECAUTIONS TO BE TAKEN TO AVOID CONTAMINATION BY LEAD COMPOUNDS. THE CONTRACTOR SHALL SUBMIT A LEAD EXPOSURE PREVENTION PLAN TO THE ENGINEER FOR REVIEW, A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY STRIPING OBLITERATION ACTIVITIES.
  - THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, DETAILS AND STANDARDS WHEN INSTALLING PAVEMENT STRIPING AND MARKINGS.
  - THE PERMANENT PAVEMENT MARKING PLANS MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.
  - ALL PAVEMENT ARROWS AND LEGENDS SHALL BE EXTRUDED THERMOPLASTIC PAVEMENT MARKINGS PER THE SPECIAL PROVISIONS.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET ONE FOOT CLEAR OF THE CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER
  - SKIP LINE TO BE 6" WIDE WHITE, 2' SOLID, 6' GAP
- SIGNING**
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL UNDERGROUND UTILITY LOCATIONS WHERE NEW POSTS ARE INSTALLED.
  - PARKING RESTRICTION SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30 DEGREES OR MORE THAN 45 DEGREES WITH THE LINE OF TRAFFIC FLOW IN ORDER TO BE VISIBLE TO APPROACHING TRAFFIC, PER GUIDANCE IN SECTION 2B OF THE MUTCD.
  - THE ENGINEERING INSPECTOR MAY REQUIRE THE CONTRACTOR TO MAKE ANY ADJUSTMENTS DEEMED NECESSARY TO ADDRESS CONDITIONS NOT INCLUDED IN THE APPROVED PLANS.
  - SIGNING MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.
  - ALL FACE OF BOLTS USED FOR MOUNTING SIGNS SHALL BE PAINTED THE SAME COLOR AS THE SIGN PANEL.
  - ALL STATION LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ACTUAL SIGN LOCATIONS WITH THE ENGINEER PRIOR TO THE INSTALLATION OF ALL SIGNS
  - ALL SIGN POSTS SHALL BE GALVANIZED SQUARE TUBE POSTS - SIZE AS NOTED.
  - NORMAL MOUNTING HEIGHT FOR ALL NEWLY INSTALLED SIGNS SHALL BE 7 FEET MINIMUM ABOVE NEAR EDGE OF PAVEMENT OR TOP OF CURB.
  - STREET NAME SIGNS SHALL BE TYPE XI SHEETING (GREEN/WHITE), TYPE STYLE, CLEARVIEW; ALUMINUM SHEETING 0.125 THICK TREATED ALUMINUM; ACRYLIC BASE 1170, CUTABLE FILE OR SILK SCREEN INKS.



- NEW W23-2**  
STA 15+04.42  
OFF 24.24 RT
- NEW W3-3**  
STA 17+47.15  
OFF 26.65 RT
- REMOVE & SALVAGE EXIST W3-1**  
STA 17+92.56  
OFF 23.72 RT

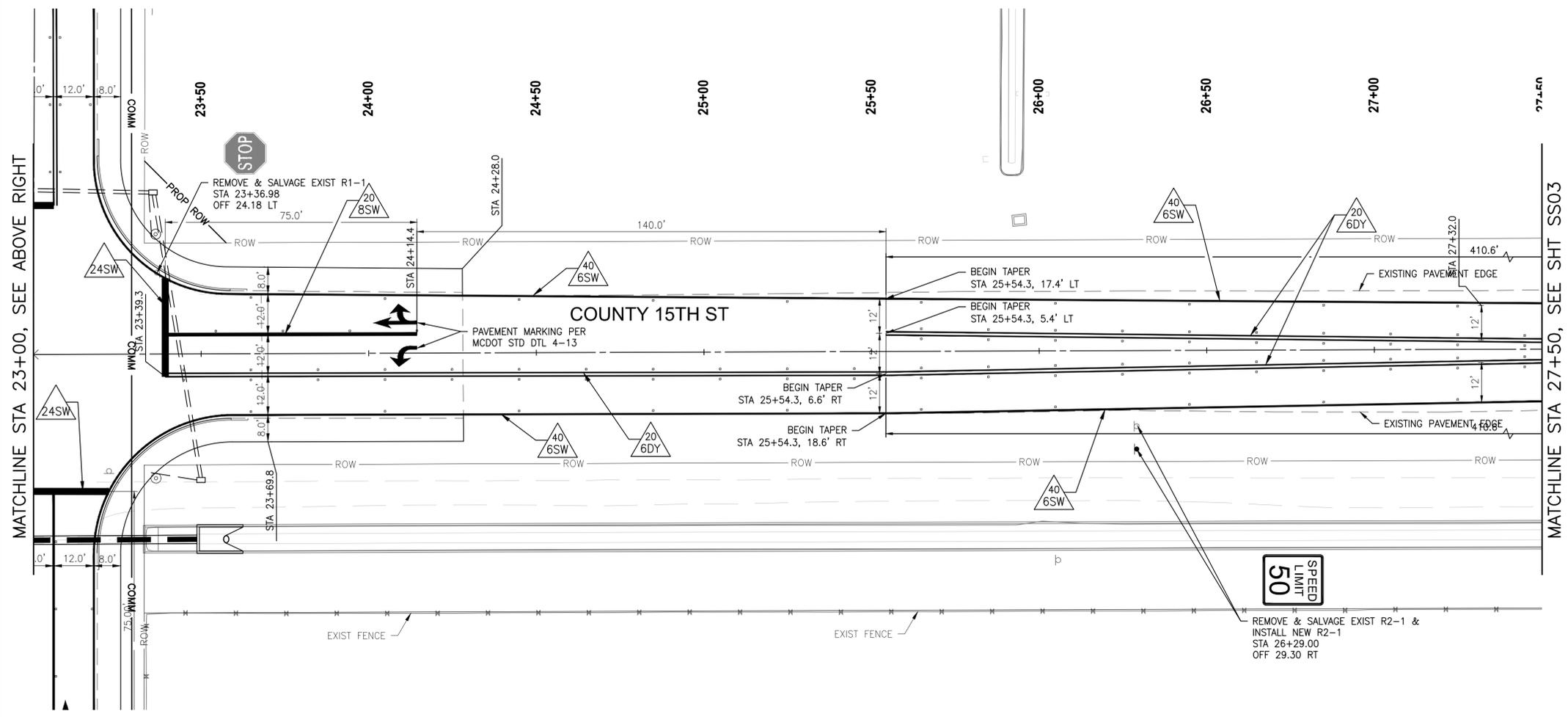
<p>Contact Arizona 811 at least two full working days before you begin excavation</p> <p>Call 811 or click Arizona811.com</p>		<p>Expires: 12-31-2020</p>	
DATE	DESCRIPTION	APPROVED	
<p><b>RICK ENGINEERING COMPANY</b> 6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350</p> <p>Tucson - San Diego - Riverside - Orange Sacramento - San Luis Obispo - Denver rickengineering.com</p>		<p><b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA</p> <p><b>COUNTY 15TH STREET - AVENUE A INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 &amp; NW 33</p>	
DATE: 07-14-2020	<b>SIGNING AND STRIPING PLAN</b>		
DESIGN: SP	<b>STA 9+50 TO STA 18+50</b>		
DRAWN: MG	CHECKED: SP	HORIZ SCALE: 1"=20'	PURCHASE ORDER 150552
RICK PROJ. No. 5069	VERT SCALE:	YUMA CO CIP NO. 1.9915-E	SS01
		SHEET 14 OF 30	



**LEGEND**

-  X" SOLID WHITE (6", 8", 12" AND 24")
-  X" SOLID WHITE (6", 8", 12" AND 24") WITH TYPE "G" RPMS @ 20' SPACING PER MCDOT DTL 4-21
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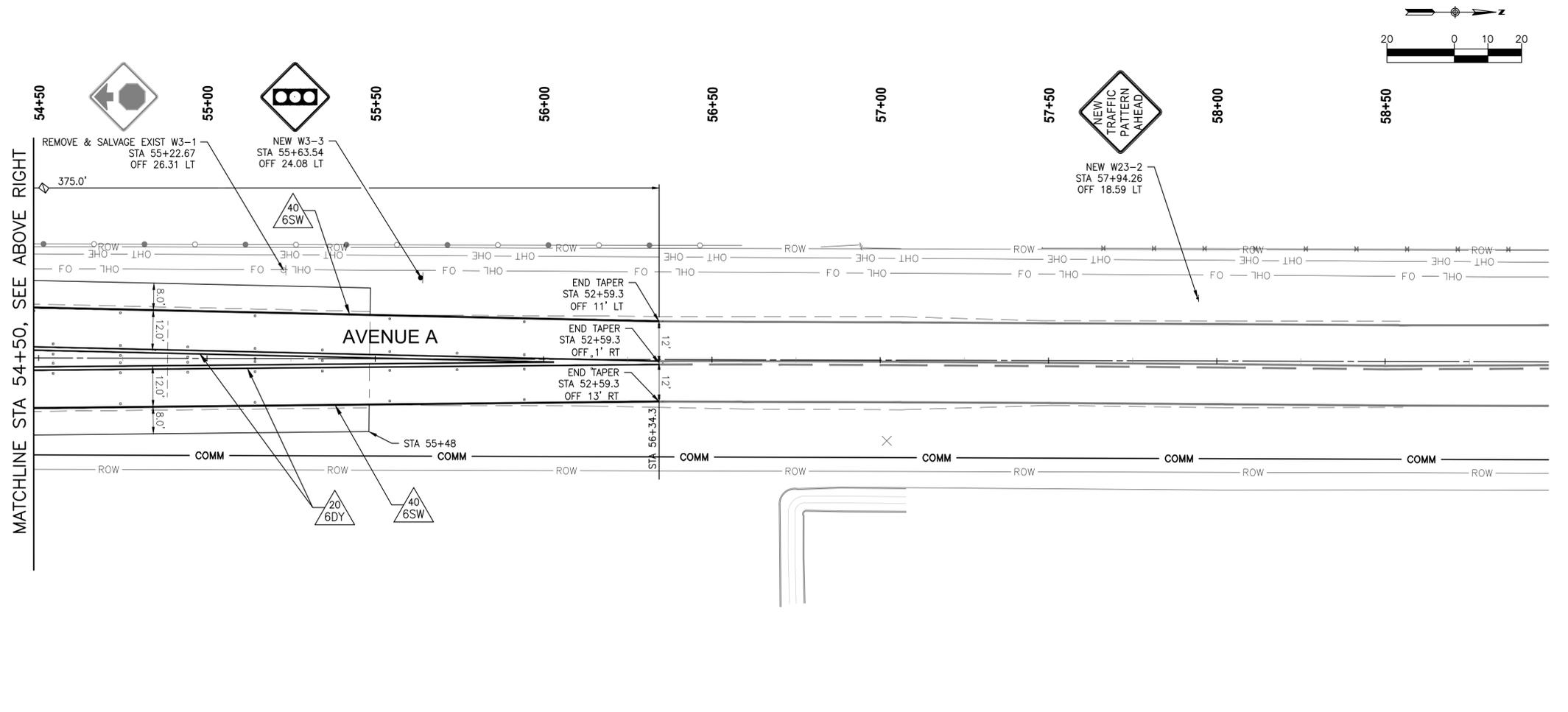
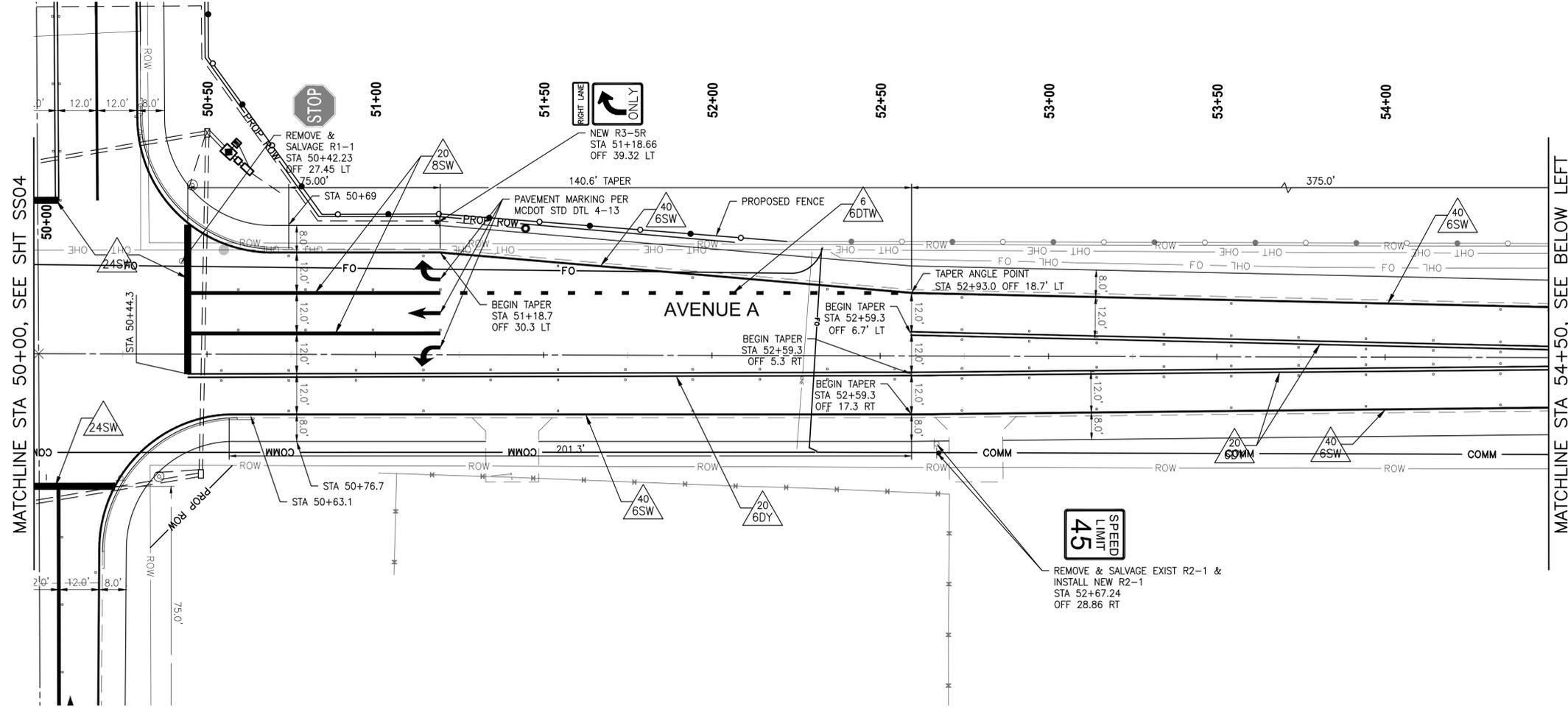
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 <p>REGISTERED PROFESSIONAL ENGINEER          CERTIFICATE NO. 34425          DALE E. MILLER          ARIZONA, U.S.A.          Expires: 12-31-2020</p>		
 <p>Contact Arizona 811 at least two full working days before you begin excavation          Call 811 or click Arizona811.com</p>		
	<p><b>YUMA COUNTY</b>          DEPARTMENT OF ENGINEERING          STATE OF ARIZONA</p>	<p>DATE: 07-14-2020          DESIGN: SP          DRAWN: MG</p>
<p><b>RICK ENGINEERING COMPANY</b>          6150 NORTH 16TH STREET          PHOENIX, AZ 85016          602.957.3350</p> <p>Tucson - San Diego - Riverside - Orange          Sacramento - San Luis Obispo - Denver          rickengineering.com</p>		<p><b>COUNTY 15TH STREET - AVENUE A          INTERSECTION IMPROVEMENT PROJECT</b>          SECTIONS SW 28, SE 29, NE 32 &amp; NW 33</p>
<p><b>SIGNING AND STRIPING PLAN          STA 18+50 TO STA 27+50</b></p>		
	<p>DATE: 07-14-2020          DESIGN: SP          DRAWN: MG</p>	<p>CHECKED: SP          RICK PROJ. No. 5069</p>
<p>HORIZ SCALE: 1"=20'          VERT SCALE:</p>		<p>PURCHASE ORDER 150552          YUMA CO CIP NO. 1.9915-E          SS02          SHEET 15 OF 30</p>



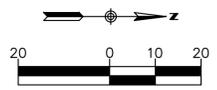




**LEGEND**

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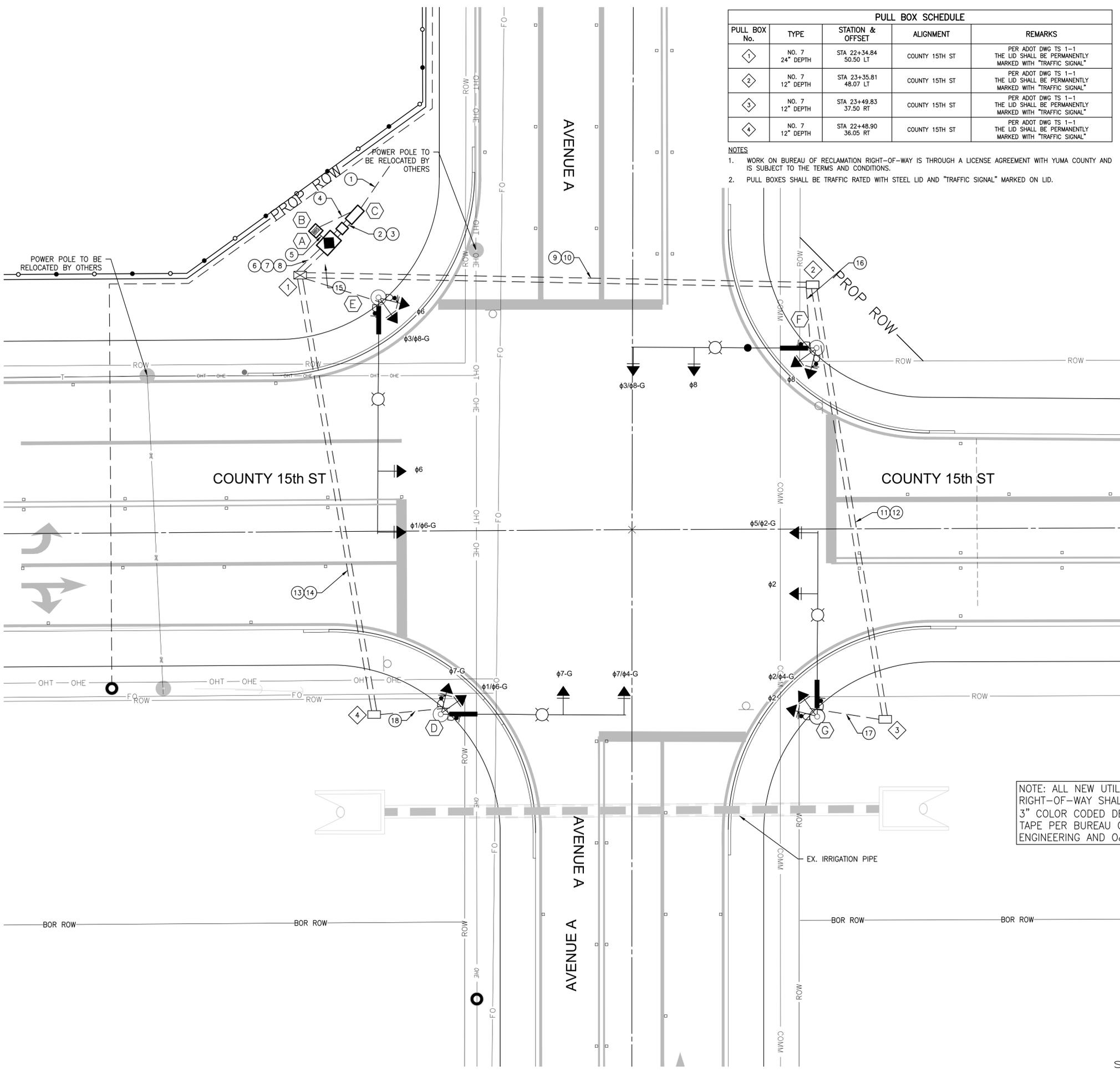
Expires: 12-31-2020

DATE	DESCRIPTION	APPROVED
07-14-2020	<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA  <b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 & NW 33	 <b>RICK</b> ENGINEERING COMPANY 6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350 <small>Tucson - San Diego - Riverside - Orange            Sacramento - San Luis Obispo - Denver            rickengineering.com</small>
DATE: 07-14-2020 DESIGN: SP DRAWN: MG		<b>SIGNING AND STRIPING PLAN</b> <b>STA 50+00 TO STA 58+50</b>
CHECKED: SP RICK PROJ. No. 5069	HORIZ SCALE: 1"=20' VERT SCALE: 1"=2'	PURCHASE ORDER 150552 YUMA CO CIP NO. 1.9915-E <b>SS05</b> SHEET 18 OF 30

SIGN LEGEND	ROADWAY	STA AND OFFSET	SIGN CODE	SIGN SIZE		NEW	RELOCATE	REMOVE AND SALVAGE	SHEETING TYPE AREA (SF)			GROUND MOUNTED PER ADOT S-3			REMARKS
				WIDTH	HEIGHT				ALUMINUM	TYPE IX	GRAFFITI COATING	FOUNDATION (SLIP BASE)	TYPE	TOTAL LENGTH	
	COUNTY 15TH ST	STA 17+47.15 OFF 26.65 RT	W3-3	36"	36"	X						1	2 1/2 T	13	
	COUNTY 15TH ST	STA 28+52.73 OFF 23.30 LT	W3-3	36"	36"	X						1	2 1/2 T	13	
	AVENUE A	STA 44+47.99 OFF 22.93 RT	W3-3	36"	36"	X						1	2 1/2 T	13	
	AVENUE A	STA 55+63.54 OFF 24.08 LT	W3-3	36"	36"	X						1	2 1/2 T	13	
	COUNTY 15TH ST	STA 17+92.56 OFF 23.72 RT	W3-1	36"	36"			X							
	COUNTY 15TH ST	STA 28+40.45 OFF 22.34 LT	W3-1	36"	36"			X							
	AVENUE A	STA 44+28.76 OFF 19.70 RT	W3-1	36"	36"			X							
	AVENUE A	STA 55+22.67 OFF 26.31 LT	W3-1	36"	36"			X							
	COUNTY 15TH ST	STA 19+97.26, OFF 38.26 LT	W4-2R	36"	36"	X						1	2 1/2 T	13	
	AVENUE A	STA 51+18.66 OFF 39.32 LT	R3-5R	30"	36"	X						1	2 1/2 T	11	
	AVENUE A	STA 51+18.66 OFF 39.32 LT	R3-5F P	30"	12"	X						1	2 1/2 T		
	COUNTY 15TH ST	STA 20+70.55 OFF 41.84 LT	R2-1	30"	36"	X		X				1	2 1/2 T	10	
	AVENUE A	STA 45+20.47 OFF 23.54 LT	R2-1	30"	36"	X		X				1	2 1/2 T	10	
	AVENUE A	STA 47+17.81 OFF 32.00 LT	R2-1	30"	36"	X		X				1	2 1/2 T	10	
	AVENUE A	STA 52+67.24 OFF 28.86 RT	R2-1	30"	36"	X		X				1	2 1/2 T	10	
	COUNTY 15TH ST	STA 26+29.00 OFF 29.30 RT	R2-1	30"	36"	X		X				1	2 1/2 T	10	
	COUNTY 15TH ST	STA 22+51.43 OFF 26.03 RT	R1-1	36"	36"			X							
	COUNTY 15TH ST	STA 23+36.98 OFF 24.18 LT	R1-1	36"	36"			X							
	AVENUE A	STA 49+65.34 OFF 22.56 RT	R1-1	36"	36"			X							
	AVENUE A	STA 50+42.23 OFF 27.45 LT	R1-1	36"	36"			X							
	AVENUE A	STA 49+55.11 OFF 43.50 LT	-	77"	24"	X			12.8						
	AVENUE A	STA 50+42.20 OFF 43.38 LT	-	77"	24"	X			12.8						
	COUNTY 15TH ST	STA 22+44.84 OFF 54.44 LT	-	77"	24"	X			12.8						
	COUNTY 15TH ST	STA 23+43.33 OFF 45.07 RT	-	77"	24"	X			12.8						
	COUNTY 15TH ST	STA 15+04.42 OFF 24.24 RT	W23-2	36"	36"	X		X				1	2 1/2 T	13	TEMPORARY, CONTRACTOR TO REMOVE 90 DAYS AFTER CONSTRUCTION & SALVAGE
	COUNTY 15TH ST	STA 30+89.37 OFF 19.52 LT	W23-2	36"	36"	X		X				1	2 1/2 T	13	TEMPORARY, CONTRACTOR TO REMOVE 90 DAYS AFTER CONSTRUCTION & SALVAGE
	AVENUE A	STA 42+09.24 OFF 18.63 RT	W23-2	36"	36"	X		X				1	2 1/2 T	13	TEMPORARY, CONTRACTOR TO REMOVE 90 DAYS AFTER CONSTRUCTION & SALVAGE
	AVENUE A	STA 57+94.26 OFF 18.59 LT	W23-2	36"	36"	X		X				1	2 1/2 T	13	TEMPORARY, CONTRACTOR TO REMOVE 90 DAYS AFTER CONSTRUCTION & SALVAGE
TOTALS						20	0	16	51.2	128.5		16	16	178	

NOTE: ALL NON CONFLICTING EXISTING SIGNS NOT LISTED TO REMAIN IN PLACE

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DATE	DESCRIPTION	APPROVED	
		<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA	
6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350 <small>Tucson - San Diego - Riverside - Orange Sacramento - San Luis Obispo - Denver rickengineering.com</small>		<b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 & NW 33	
<b>SIGN INVENTORY</b>			
DATE: 07-14-2020	PURCHASE ORDER 150552		SI01
DESIGN: SP	HORIZ SCALE: 1"=20'	YUMA CO CIP NO. 1.9915-E	SHEET 19 OF 30
DRAWN: MG	VERT SCALE:		



PULL BOX SCHEDULE				
PULL BOX No.	TYPE	STATION & OFFSET	ALIGNMENT	REMARKS
1	NO. 7 24" DEPTH	STA 22+34.84 50.50 LT	COUNTY 15TH ST	PER ADOT DWG TS 1-1 THE LID SHALL BE PERMANENTLY MARKED WITH "TRAFFIC SIGNAL"
2	NO. 7 12" DEPTH	STA 23+35.81 48.07 LT	COUNTY 15TH ST	PER ADOT DWG TS 1-1 THE LID SHALL BE PERMANENTLY MARKED WITH "TRAFFIC SIGNAL"
3	NO. 7 12" DEPTH	STA 23+49.83 37.50 RT	COUNTY 15TH ST	PER ADOT DWG TS 1-1 THE LID SHALL BE PERMANENTLY MARKED WITH "TRAFFIC SIGNAL"
4	NO. 7 12" DEPTH	STA 22+48.90 36.05 RT	COUNTY 15TH ST	PER ADOT DWG TS 1-1 THE LID SHALL BE PERMANENTLY MARKED WITH "TRAFFIC SIGNAL"

- NOTES**
- WORK ON BUREAU OF RECLAMATION RIGHT-OF-WAY IS THROUGH A LICENSE AGREEMENT WITH YUMA COUNTY AND IS SUBJECT TO THE TERMS AND CONDITIONS.
  - PULL BOXES SHALL BE TRAFFIC RATED WITH STEEL LID AND "TRAFFIC SIGNAL" MARKED ON LID.

- TRAFFIC SIGNAL GENERAL NOTES**
- ALL MATERIAL AND INSTALLATION SHALL CONFORM TO YUMA COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS, THE PROJECT SPECIFICATIONS AND THE ADOT SIGNALS AND LIGHTING STANDARD DRAWINGS (MOST RECENT REVISIONS).
  - THE LOCATION OF UTILITIES SHOWN ON THE PLANS IS APPROXIMATE. ALL INVOLVED UTILITIES MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES AND ARIZONA 811 FOR EXACT LOCATIONS PRIOR TO ANY CONSTRUCTION.
  - THE TRAFFIC SIGNAL CONTRACTOR MUST COORDINATE WITH YUMA COUNTY PROJECT MANAGER AT (928) 817-5123.
  - THE TRAFFIC SIGNAL CONTRACTOR MUST COORDINATE WORK WITH THAT OF THE OTHER CONTRACTORS WITHIN OR ADJACENT TO PROJECT LIMITS.
  - ALL EQUIPMENT THAT IS REMOVED BY THE CONTRACTOR AND NOT REUSED MUST BE SALVAGED, PROTECTED FROM DAMAGE AND DELIVERED BY THE CONTRACTOR DURING NORMAL BUSINESS HOURS TO THE YUMA COUNTY PUBLIC WORKS TRAFFIC SIGNAL SHOP AT 4343 S. AVENUE 5 1/2 E, YUMA, ARIZONA.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND ACTUAL ESTABLISHMENT OF ELECTRICAL SERVICE WITH APS. YUMA COUNTY WILL BE RESPONSIBLE FOR THE PAYMENT OF FEES. FOR ELECTRICAL SERVICE REQUIREMENTS, CONTACT ANTONIA MORALES OF ARIZONA PUBLIC SERVICE COMPANY AT (928) 227-3786, A MINIMUM OF 28 WORKING DAYS BEFORE SERVICE IS REQUIRED. CONTRACTOR TO OBTAIN PERMIT FOR THE ELECTRICAL HOOKUP.
  - THE CONTRACTOR SHALL CONTACT THE YUMA COUNTY PROJECT MANAGER AT (928) 817-5123 TO SCHEDULE THE TURN-ON. THE YUMA COUNTY ENGINEER WILL SCHEDULE THE SIGNAL ACTIVATION.
  - ALL STRIPING MUST BE INSTALLED PRIOR TO THE DAY OF TURN-ON.
  - ALL SIGNALS MUST BE SERVED FROM THE SIGNAL POLE ON THE ASSOCIATED CORNER.
  - THE CONTROL CABINET MUST BE WIRED AND LABELED WITH THE SAME PHASE NUMBER DESIGNATIONS FOR INITIAL AND FUTURE PHASES, AS SHOWN IN THE RING DIAGRAM OR AS NOTED ON THE PLANS.
  - ALL CONDUCTORS MUST BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
  - ALL SIGNALS AND PUSH-BUTTON CABLES MUST SATISFY IMSA SPECIFICATION 19-1, AWG #14.
  - ALL DETECTORS MUST BE INSTALLED AND FUNCTIONAL BEFORE THE DAY OF TURN-ON.
  - VIDEO DETECTION ZONES SHALL BE SET BEGINNING 6' BEYOND THE STOP BAR, UNLESS OTHERWISE NOTED ON THESE PLANS. CENTER ALL VIDEO DETECTION ZONES WITHIN THE LANE.
  - THE CONTRACTOR SHALL VERIFY ALL SIGNAL POLE LOCATIONS WITH THE ENGINEER, PRIOR TO INSTALLATION. SIGNAL HEAD AIMING MUST BE AS DIRECTED BY THE YUMA COUNTY ENGINEER.
  - THE COST OF ALL CONDUIT STUB-OUTS IS INCIDENTAL TO THE COST OF THE ASSOCIATED PULL BOXES.
  - ALL PARALLEL CONDUITS IN PROXIMITY TO EACH OTHER SHOULD BE INSTALLED IN A JOINT TRENCH OR JOINT BORING/DRILLING OPERATION.
  - ALL PERSONNEL, EQUIPMENT AND MATERIALS SHALL MAINTAIN 10' OF RADIAL CLEARANCE FROM EXISTING OVERHEAD POWER LINES AT ALL TIMES, PER THE APS STANDARD DETAIL 1124.
  - ALL TRAFFIC SIGNALS SHALL BE LED.
  - ALL VEHICLE TRAFFIC SIGNAL FACE INDICATIONS SHALL BE 12 INCH WITH 5" LOUVERED BACKPLATES. SEE YUMA COUNTY PROPRIETARY PRODUCTS LIST.
  - SIGNAL MOUNTED STREET NAME SIGNS SHALL BE INSTALLED PER THE LATEST YUMA COUNTY PUBLIC WORKS DETAIL. CONTACT PROJECT MANAGER TO OBTAIN. SEE YUMA COUNTY PROPRIETARY PRODUCTS LIST.
  - STOP SIGNS SHALL BE REMOVED BY THE CONTRACTOR CONCURRENTLY WITH THE SIGNAL TURN-ON. THE SIGNS SHALL BE SALVAGED TO THE YUMA COUNTY DEPARTMENT OF PUBLIC WORKS.
  - CONTRACTORS WILL COORDINATE WITH APS TO SUPPLY POWER FROM THE ELECTRICAL POINT OF SERVICE TO THE TRAFFIC SIGNAL METER PEDESTAL, CABINET AND UPS.
  - TRAFFIC SIGNAL CONTROL CABINET DOOR SHALL FACE AWAY FROM THE INTERSECTION. CONTRACTOR SHALL CONTACT PROJECT MANAGER OF YUMA COUNTY AT (928) 817-5123 AT LEAST 10 DAYS IN ADVANCE OF FOUNDATION INSTALLATION TO COORDINATE LOCATION IN THE FIELD.
  - STREET NAME SIGNS SHALL BE TYPE XI SHEETING (GREEN/WHITE), TYPE STYLE, CLEARVIEW; ALUMINUM SHEETING 0.125 TREATED ALUMINUM; ACRYLIC BASE 1170, CUTABLE FILM OR SILK SCREEN INKS. SEE YUMA COUNTY PROPRIETARY PRODUCTS LIST.
  - CONTRACTOR TO FURNISH ALL MATERIALS NEEDED.
  - PULL BOXES AND LIDS SHALL BE TRAFFIC RATED.
  - ALL TRAFFIC SIGNAL MATERIALS SHALL BE APPROVED BY YUMA COUNTY THROUGH A MATERIAL SUBMITTAL PROCESS PRIOR TO ORDERING.
  - THE CONTRACTOR SHALL PROVIDE AND INSTALL LUMINAIRES. LUMINAIRES SHALL BE 135W, 4000K (COLOR), LEOTEK MODEL GCL1 OR APPROVED EQUAL. ALL LUMINAIRES WILL HAVE SHORTING CAPS INSTALLED. SEE YUMA COUNTY PROPRIETARY PRODUCTS LIST.

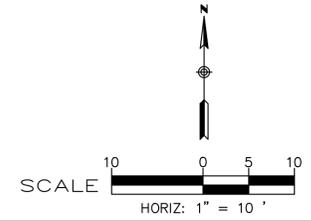
- CONSTRUCTION NOTES**
- THE CONTRACTOR SHALL PROVIDE NEW IMSA CONDUCTORS. NO SPLICING OF CONDUCTORS IN CONDUIT RUN WILL BE ALLOWED. PULL NEW CONDUCTORS INTO CONDUIT AS SPECIFIED IN THE CONDUCTOR SCHEDULE. ALL SPLICES SHALL BE SCOTCH COAT SEALED AND ALL CONDUCTORS SHALL BE LABELED PER THE YUMA COUNTY COLOR CODE AND WIRING DETAIL. ALL IMSA CONDUCTORS SHALL BE INSTALLED WITHOUT SPLICING FROM THE SIGNAL HEAD TO THE PULL BOXES. TRAFFIC SIGNAL BLOCKS SHALL NOT BE USED AS A CONNECTION POINT BETWEEN THE PULL BOX AND THE VEHICLE OR PEDESTRIAN INDICATIONS.
  - ALL PULL BOXES SHALL BE LEFT IN A CLEAN CONDITION. FREE OF DIRT AND DEBRIS UPON COMPLETION OF WORK.
  - DRILLING HEIGHT FOR SIGNAL FACES AND PEDESTRIAN PUSH BUTTON ASSEMBLIES SHALL BE PER ADOT STANDARD DRAWING T.S. 4-21. THE CONTRACTOR SHALL CONFER WITH THE YUMA COUNTY INSPECTOR FOR SIDE-MOUNT DRILLING LOCATIONS. TYPE "V" OR TYPE "VII" MOUNTS SHALL BE USED FOR THE PEDESTRIAN INDICATIONS.
  - ALL INSTALLED TRAFFIC SIGNAL HEADS THAT WILL NOT BE ENERGIZED FOLLOWING CONSTRUCTION SHALL BE BAGGED/COVERED WITH A MATERIAL THAT DOES NOT ALLOW LIGHT PENETRATION WHEN NOT IN FULL OPERATION.
  - THE TOP OF NEW POLE FOUNDATIONS SHALL BE INSTALLED 4" BELOW ADJACENT SIDEWALK ELEVATION AND FINISHED IN WITH AN APRON. LEVELING NUTS WILL BE BLOCKED/FORMED OUT DURING CONCRETE APRON INSTALLATION AND GROUTED BACK IN TO PROVIDE FOR FUTURE ACCESS. GROUT SHALL BE INSTALLED LEVEL WITH THE BASE OF THE POLE.
  - PRIOR TO ENERGIZING THE TRAFFIC SIGNALS, THE CONTRACTOR IS RESPONSIBLE FOR THE POSITIONING, LEVELING AND ALIGNING OF THE INDIVIDUAL SIGNAL HEADS, SO THEY ARE COMPLETELY VISIBLE TO THE APPROACHING DRIVER THAT THE SIGNAL IS INTENDED TO CONTROL.
  - THE CONTRACTOR SHALL CONTACT ARIZONA PUBLIC SERVICE (APS) FOR THE ELECTRICAL SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL ELECTRICAL SERVICE CONDUCTORS, UNLESS OTHERWISE DIRECTED BY APS.
  - THE CONTRACTOR SHALL HAVE AN AUTHORIZED REPRESENTATIVE PRESENT FROM THE TRAFFIC SIGNAL CONTROLLER AND VIDEO DETECTION SYSTEM MANUFACTURER AT THE TIME THE TRAFFIC SIGNAL IS ACTIVATED FOR SETUP AND CONFIGURATION OF THE CABINET/CONTROLLER AND VIDEO DETECTION.
  - THE CONTRACTOR SHALL PROVIDE AND INSTALL "NEW TRAFFIC PATTERN AHEAD" SIGNS WITH FLAGS 750' PRIOR TO THE INTERSECTION OF ALL AFFECTED APPROACHES FOR 30-DAYS. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF THE "TRAFFIC CONTROL CHANGE" SIGNS FOLLOWING THE 30-DAY PERIOD.

NOTE: ALL NEW UTILITIES IN BOR RIGHT-OF-WAY SHALL BE MARKED WITH 3" COLOR CODED DETECTABLE WARNING TAPE PER BUREAU OF RECLAMATION ENGINEERING AND O&M GUIDELINES

Expires: 12-31-2020

DATE	DESCRIPTION	APPROVED
<b>RICK ENGINEERING COMPANY</b> 6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350 <small>Tucson - San Diego - Riverside - Orange - Sacramento - San Luis Obispo - Denver - rickengineering.com</small>		
<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA <b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 & NW 33		

DATE: 07-14-2020	<b>TRAFFIC SIGNAL LAYOUT</b>	
DESIGN: SP	HORIZ SCALE: 1"=10'	PURCHASE ORDER 150552
DRAWN: MG	VERT SCALE:	YUMA CO CIP NO. 1.9915-E
CHECKED: SP	RICK PROJ. No. 5069	TS01 SHEET 20 OF 30



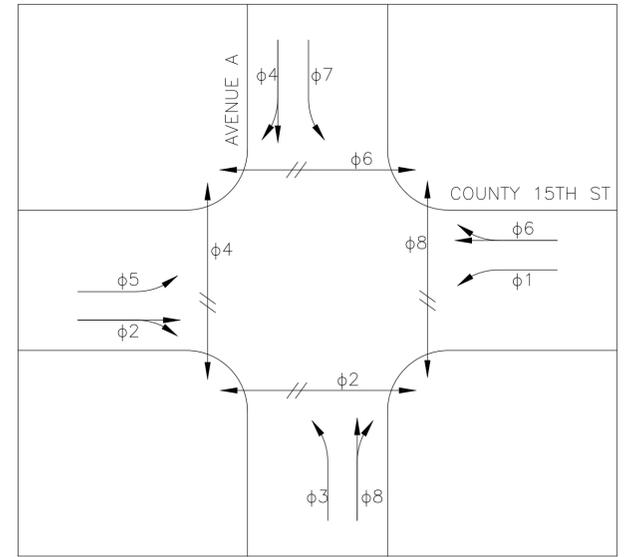
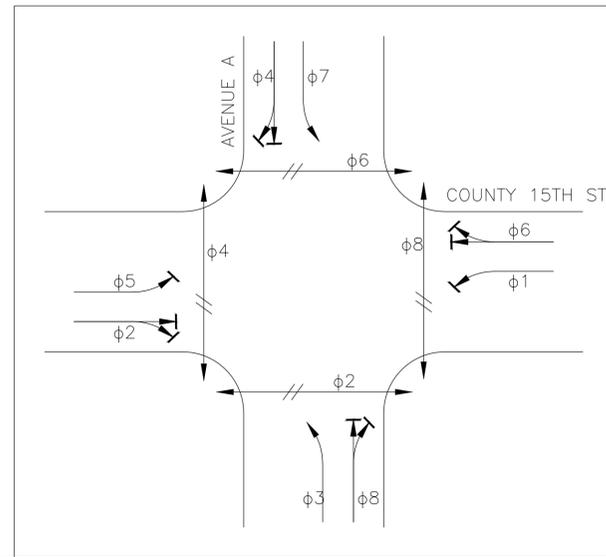
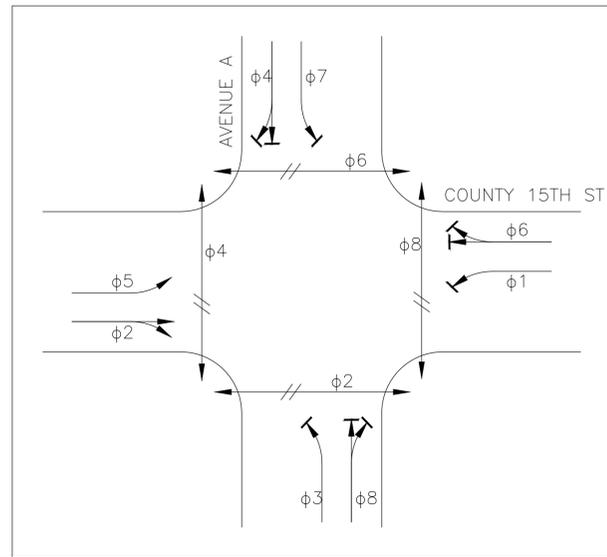
PROPOSED POLE SCHEDULE - COUNTY 15TH ST AND AVENUE A

TRAFFIC SIGNAL CONTROLLER							REMARKS	LOCATION
EXISTING CABINETS	TYPE	CONTROLLER	AUX. CONTROL					
(A)	ECONOLITE 77" "R" CABINET, ADOT TYPE V CABINET, 76.75"H x 44.25"W x 26"D	COBALT ATC TRAFFIC CONTROLLER						STA 10+49.51, 51.1 LT
(B)	ZINCBLUE BBS WITH 500W BATTERY							STA 10+52.25, 48.5 LT
(C)	MYERS PEDESTAL MEUG16A-M100 AND FOUNDATION							STA 10+51.31, 53.0 LT
POLE		MAST ARM	SIGNAL		P.B.			
NO.	TYPE	SIGNAL	LUMINAIRE	MTG.	FACE	SIGN		
(D)	Q	35'	20'	2 - II 1 - VII 1 - VII	2 - G 2 - F 2 - M/H	R10-3E (L FOR LEFT AND R FOR RIGHT)	1. INSTALL TYPE Q SIGNAL POLE AND FOUNDATION PER ADOT T.S. 4-10 2. INSTALL 35' SMA AND 20' LMA 3. INSTALL 2-F AND 2-G SIGNAL HEADS 4. INSTALL STREET NAME SIGN PER YUMA COUNTY STANDARD DETAILS 5. INSTALL LUMINAIRE WITH T3 DISTRIBUTION, 163W, 3000K/4000K LED TYPE 15L OR EQUIVALENT 6. YELLOW STRIPE ON BACK PLATE OF SIGNAL HEADS	COUNTY 15TH ST STA 22+62.80, 35.70 RT
(E)	R	45'	20'	2-II 1-VII 1-VII	2 - G 2 - F 2 - M/H	R10-3E (L FOR LEFT AND R FOR RIGHT)	1. INSTALL TYPE R SIGNAL POLE AND FOUNDATION PER ADOT T.S. 4-11 2. INSTALL 45' SMA AND 20' LMA 3. INSTALL 2-F AND 2-G SIGNAL HEADS 4. INSTALL STREET NAME SIGN PER YUMA COUNTY STANDARD DETAILS 5. INSTALL LUMINAIRE WITH T3 DISTRIBUTION, 163W, 3000K/4000K LED TYPE 15L OR EQUIVALENT 6. YELLOW STRIPE ON BACK PLATE OF SIGNAL HEADS	COUNTY 15TH ST STA 22+50.29, 46.00 LT
(F)	Q	35'	20'	2-II 1-VII 1-VII	2 - G 2 - F 2 - M/H	R10-3E (L FOR LEFT AND R FOR RIGHT)	1. INSTALL TYPE Q SIGNAL POLE AND FOUNDATION PER ADOT T.S. 4-10 2. INSTALL 35' SMA AND 20' LMA 3. INSTALL 2-F AND 2-G SIGNAL HEADS 4. INSTALL GRIDSMART VDS ON LUMINAIRE 5. INSTALL STREET NAME SIGN PER YUMA COUNTY STANDARD DETAILS 6. INSTALL LUMINAIRE WITH T3 DISTRIBUTION, 163W, 3000K/4000K LED TYPE 15L OR EQUIVALENT 7. YELLOW STRIPE ON BACK PLATE OF SIGNAL HEADS	COUNTY 15TH ST STA 23+36.55, 35.63 LT
(G)	Q	35'	20'	2-II 1-VII 1-VII	2 - G 2 - F 2 - M/H	R10-3E (L FOR LEFT AND R FOR RIGHT)	1. INSTALL TYPE Q SIGNAL POLE AND FOUNDATION PER ADOT T.S. 4-10 2. INSTALL 35' SMA AND 20' LMA 3. INSTALL 2-F AND 2-G SIGNAL HEADS 4. INSTALL STREET NAME SIGN PER YUMA COUNTY STANDARD DETAILS 5. INSTALL LUMINAIRE WITH T3 DISTRIBUTION, 163W, 3000K/4000K LED TYPE 15L OR EQUIVALENT 6. YELLOW STRIPE ON BACK PLATE OF SIGNAL HEADS	COUNTY 15TH ST STA 23+35.97, 36.26 RT

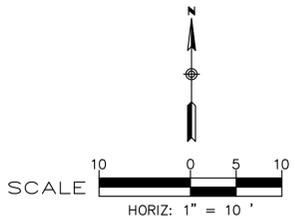
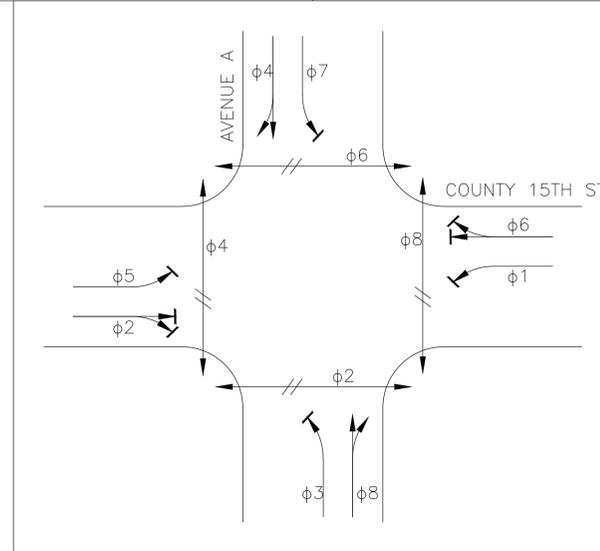
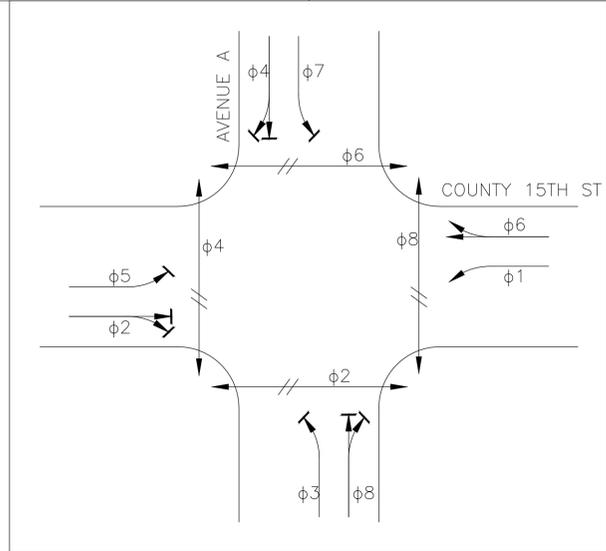
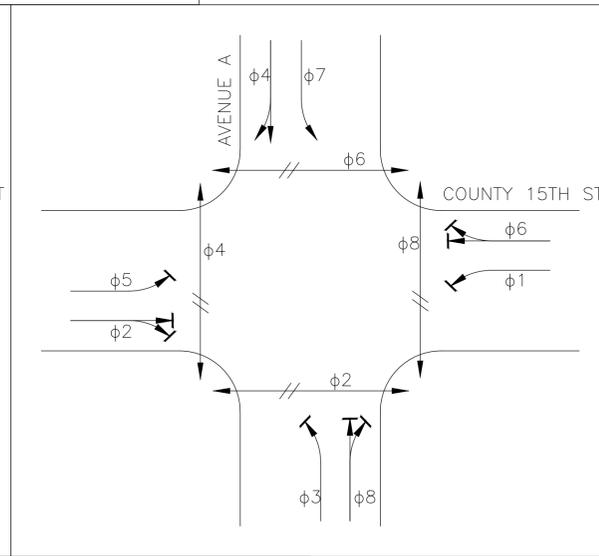
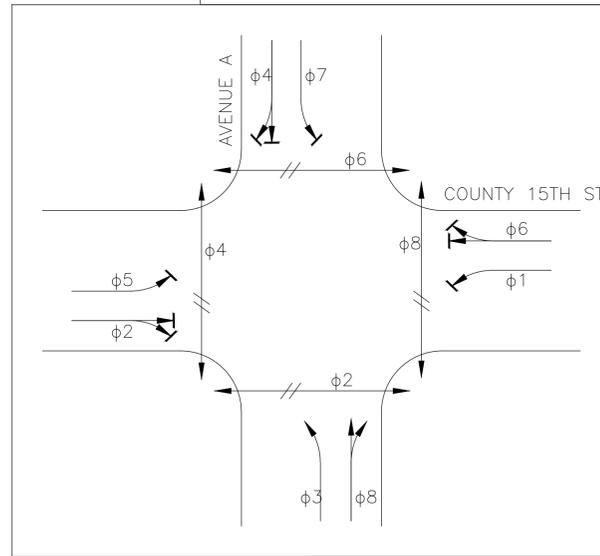
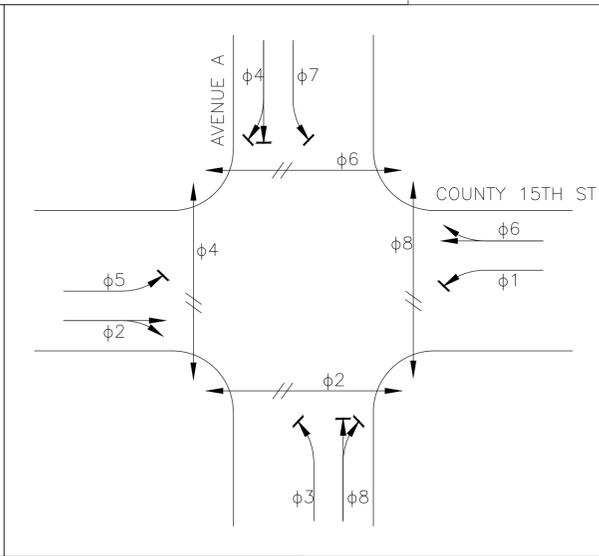
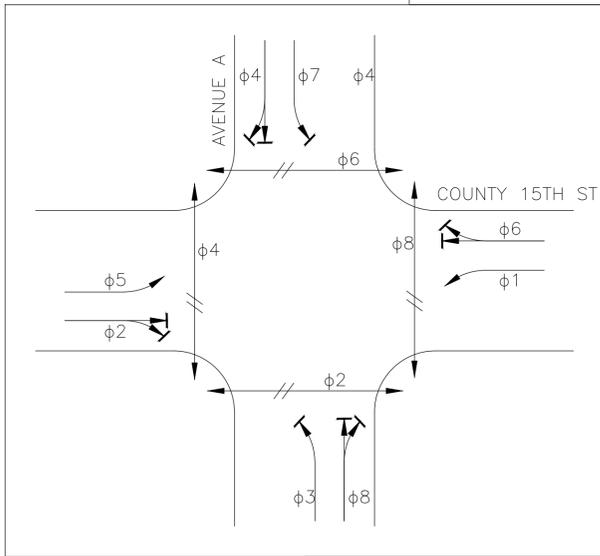
EQUIPMENT NOTES:

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL FOUNDATION AND POLE LOCATIONS. CONTRACTOR SHALL POT-HOLE AND PERFORM SITE VISIT TO DETERMINE ANY POTENTIAL OVERHEAD OR UNDERGROUND CONFLICTS AND COORDINATE WITH THE YUMA COUNTY PROJECT MANAGER AND THE DESIGN CONSULTANT AND YUMA COUNTY PROPRIETARY PRODUCTS LIST PRIOR TO ORDERING EQUIPMENT
- ALL TRAFFIC SIGNAL EQUIPMENT WILL BE NEW WITH FULL WARRANTY. USED OR REFURBISHED EQUIPMENT WILL NOT BE PERMITTED
- ALL RED, YELLOW, GREEN VEHICLE INDICATIONS AND IN-LINE FILLED IN INDICATIONS SHALL BE DIALIGHT LED INDICATIONS
- WHEN INSTALLING NEW TYPE F SIGNAL HEADS WITH TYPE XI MOUNTINGS PLACED ON THE FAR SIDE LEFT-TURN POLE POSITION, THE CONTRACTOR SHALL PROVIDE AND INSTALL AN EXTENDED RISER TO ACCOMMODATE A FUTURE TYPE G SIGNAL HEAD INSTALLATION
- ALL NEW 12-INCH SIGNAL HEADS SHALL HAVE FIVE-INCH METAL LOUVERED BACK PLATES. SEE YUMA COUNTY PROPRIETARY PRODUCTS LIST
- INCLUDE 3M TAPE ON SIGNAL BACK PLATES. SEE YUMA COUNTY PROPRIETARY PRODUCTS LIST
- ALL SIGNAL HEADS SHOULD BE MCCAIN OR EAGLE/SIEMENS. SEE YUMA COUNTY PROPRIETARY PRODUCTS LIST
- LUMINARIES ARE TO BE LED SAFETY STREETLIGHT 135W, 4000K (COLOR), LEOTEK MODEL GCL1 OR APPROVED EQUAL
- THE CONTRACTOR SHALL PROVIDE A SIX-FOOT COILED CONTROL CORD IN THE POLICE PANEL OF THE CONTROLLER CABINET
- THE CONTRACTOR SHALL INSTALL A CABINET "COURTESY PAD". THIS SHALL CONSIST OF A FOUR-INCH PCC PAD IN FRONT OF THE CABINET (DOOR SIDE). PAD SHALL BE SET A MINIMUM OF TWO-INCHES BELOW THE CABINET FOUNDATION ELEVATION. SLOPE PAD AWAY FROM CABINET. SEE ADOT STANDARD DRAWING TS 2-1 FOR PAD DETAILS. IN ADDITION, THE CONTRACTOR SHALL PROVIDE A FOUR-INCH THICK CONCRETE WALKWAY BETWEEN THE SIDEWALK AND THE PCC PAD
- ALL EQUIPMENT SHALL BE APPROVED BY YUMA COUNTY PRIOR TO THE ORDERING OF THE EQUIPMENT SEE YUMA COUNTY PROPRIETARY PRODUCTS LIST
- VIDEO DETECTION: GRIDSMART V.I.V.T.D.S. PER SPECIAL PROVISIONS (REFER TO V.I.V.T.D.S. SPEC) SEE YUMA COUNTY PROPRIETARY PRODUCTS LIST

DATE	DESCRIPTION	APPROVED		
		<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA <b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 & NW 33		
DATE:	07-14-2020	<b>POLE SCHEDULE</b>		
DESIGN:	SP			
DRAWN:	MG			
CHECKED:	SP	HORIZ SCALE: 1"=10'	PURCHASE ORDER 150552	TS02
RICK PROJ. No.	5069	VERT SCALE:	YUMA CO CIP NO. 1.9915-E	SHEET 21 OF 30



PHASE DIAGRAM

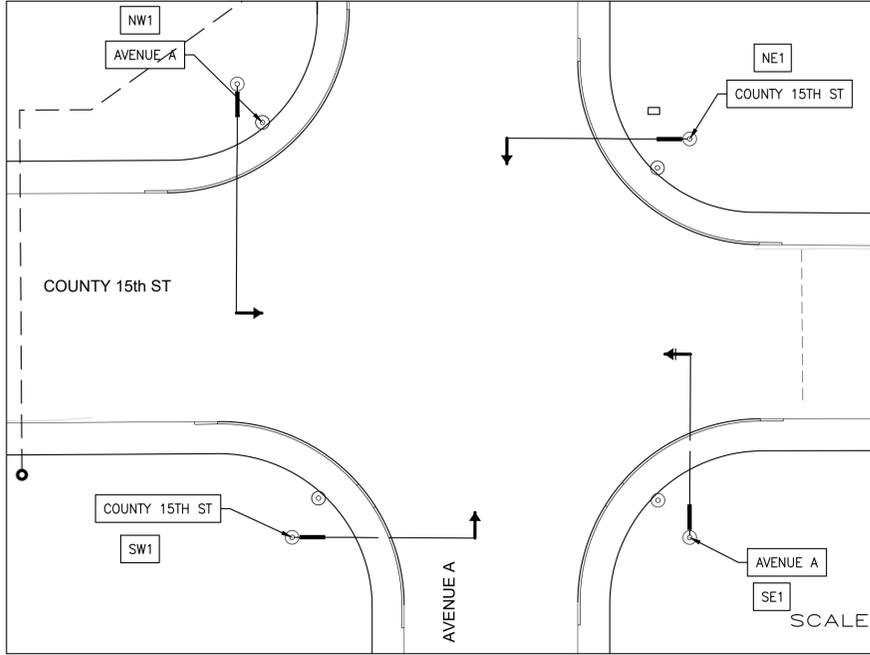


SEQUENCE DIAGRAM

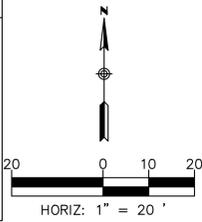
		<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA	
6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350 <small>Tucson - San Diego - Riverside - Orange          Sacramento - San Luis Obispo - Denver          rickengineering.com</small>		<b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 & NW 33	
DATE: 07-14-2020	<b>PHASING DIAGRAM</b>		APPROVED
DESIGN: SP	CHECKED: SP RICK PROJ. No. 5069		PURCHASE ORDER 150552 YUMA CO CIP NO. 1.9915-E TS03 SHEET 22 OF 30

## CONDUCTOR SCHEDULE

CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CONDUIT SIZE IN INCHES	2.5	3	3	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
Signal Heads	#16 IMSA 19-1 90 High Temp Wire, 25 Conductor																	
Ped Heads	#16 IMSA 19-1 90 High Temp Wire, 7 Conductor																	
Ped PBs	#16 IMSA 19-1 90 High Temp Wire, 5 Conductor																	
Power	#16 IMSA 19-1 90 High Temp Wire, 2 Conductor																	
Power	#8 XHHW; Solid White																	
Power	#8 XHHW; Solid Green																	
Luminaires (120 V)	#8 IMSA 19-1, 4 Conductor, Solid Black; Orange Tape																	
Luminaires (120 V)	#8 IMSA 19-1, 4 Conductor, Solid Red; Orange Tape																	
Service	120/240 V (Provided by APS)																	
Survey	Tracer Wire #12 Green Bond																	
Video Detection	Video Detection Composite Cable																	



**STREET NAME SIGN LAYOUT**



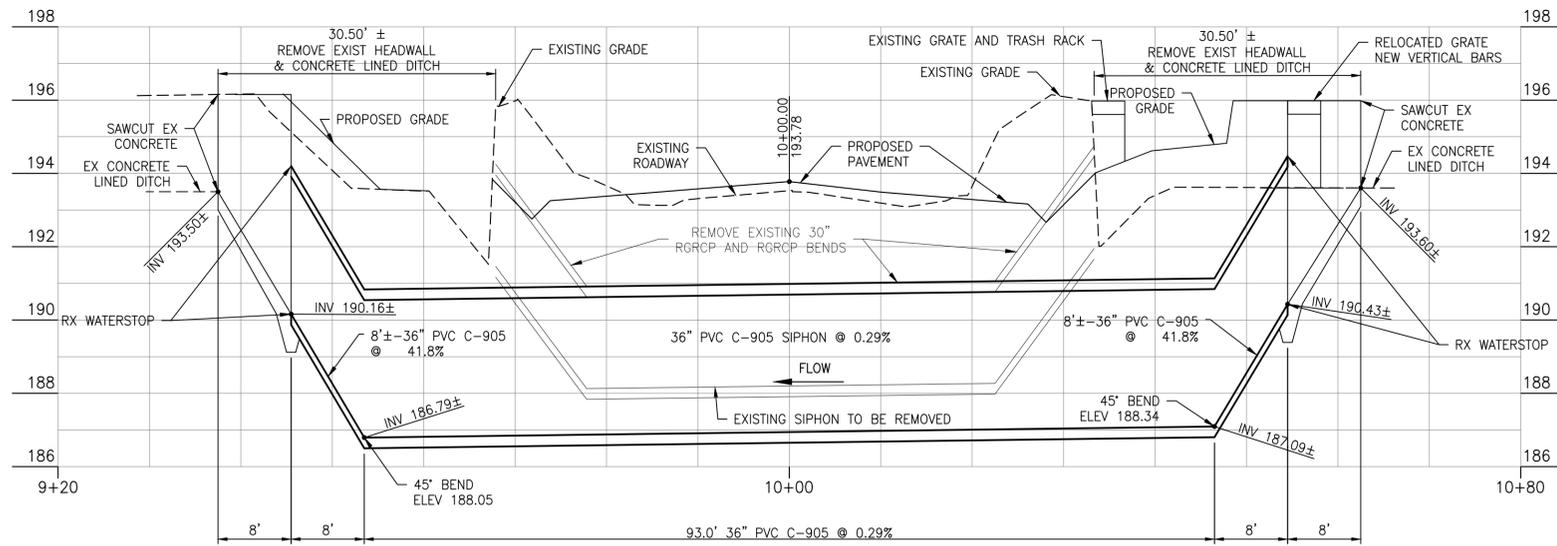
**METRO (OVERHEAD) STREET NAME SIGN LAYOUT**

**NOTE:**  
WORK ON BUREAU OF RECLAMATION RIGHT-OF-WAY IS THROUGH A LICENSE AGREEMENT WITH YUMA COUNTY AND IS SUBJECT TO THE TERMS AND CONDITIONS

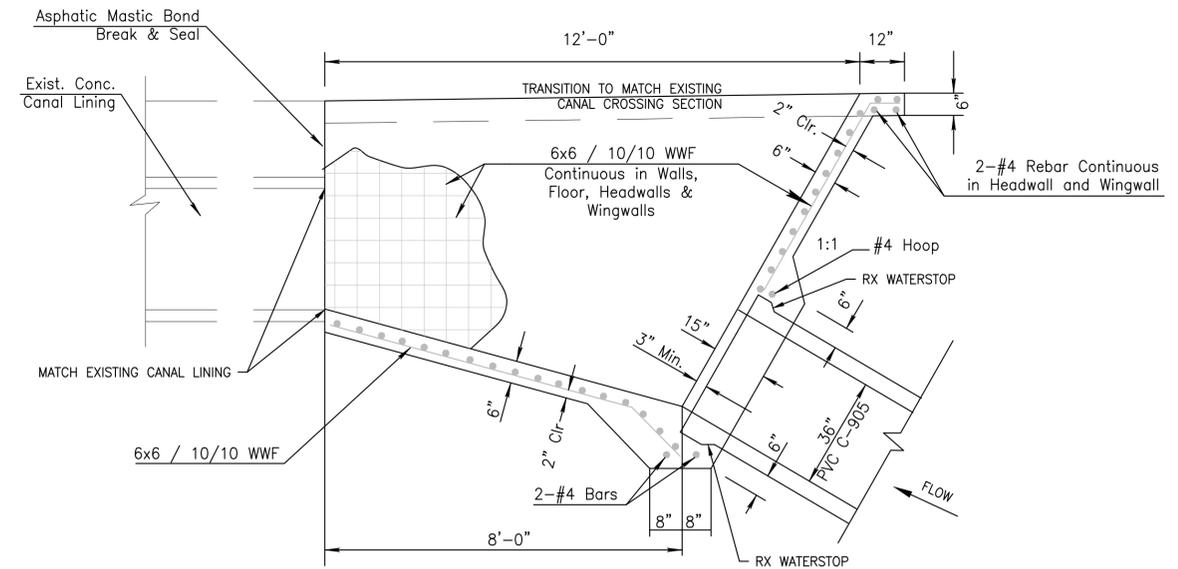
- STREET NAME SIGN:**
- 24"x77", TYPE XI, SHEETING GREEN/WHITE (1 SIDE)
  - TYPE STYLE: CLEARVIEW, BLANK TYPE 0,125 TREATED ALUMINUM. INCLUDE 10" COUNTY LOGO. CUTTABLE FILM ON SILK SCREEN INKS WITH 1160 PROTECTIVE FILM. 490 DG3

- TRAFFIC SIGNAL WIRING NOTES:**
1. THE CONTRACTOR SHALL PROVIDE NEW CONDUCTORS AND CABLES FOR THE INTERSECTION
  2. CABLE #1 SHALL BE MARKED WITH 1 TAPE BAND AT EACH PULL BOX LOCATION. ALL EAST/WEST RUNS SHALL BE MARKED WITH WHITE TAPE COLOR. ALL NORTH/SOUTH RUNS SHALL BE MARKED WITH GREEN TAPE COLOR. CABINET RUN SHALL BE MARKED WITH YELLOW TAPE COLOR. INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE MARKED WITH APPROPRIATE COLOR TO BE ASSIGNED PHASE
  3. CABLE #2 SHALL BE MARKED WITH 2 TAPE BANDS AT EACH PULL BOX LOCATION WITH ONE-HALF INCH (1/2") SPACING BETWEEN TAPE. ALL EAST/WEST RUNS SHALL BE MARKED WITH WHITE TAPE COLOR. ALL NORTH/SOUTH RUNS SHALL BE MARKED WITH GREEN TAPE COLOR. INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE MARKED WITH APPROPRIATE COLOR TO THE ASSIGNED PHASE
  4. SPARE CABLE/WIRE SHALL BE PULLED INTO SPARE CONDUIT RUN. CABLE/WIRE SHALL BE UNSPLICED, PHASE TAPED APPROPRIATELY, AND LAID NEATLY ON BOTTOM OF PULL BOX. EARTH GROUND (GREEN #8) SHALL BE SPLICED UTILIZING APPROPRIATE COMPRESSION CRIMP AT ALL PULL BOX LOCATIONS TO INSURE LOCATION (BLUESTAKE) CAPABILITIES
  5. IMSA 25, 7, AND 4 CONDUCTOR CABLES SHALL BE NO. 14 AWG IMSA 19-1. ALL IMSA CONDUCTORS SHALL BE SOLID
  6. ALL NEW WIRE (BOTH UNDERGROUND AND OVERHEAD) SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR
  7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MULTI-COLORED CONDUCTORS WHICH MEET THE COLOR CODING IDENTIFIED BY THE CITY OF YUMA AND ADOT STANDARDS
  8. WHEN SPLICING 25 CONDUCTOR CABLES IN PULL BOXES, ONLY THOSE CONDUCTORS SHALL RUN THROUGH THE PULL BOX UNCUT
  9. INSTALL NO. 10 BARE BOND IN ALL EMPTY CONDUITS
  10. ALL LUMINARIES SHALL HAVE SEPARATE FUSES INSTALLED IN PULL BOXES AT THE BASE OF THE POLE
  11. ALL PULL BOXES AND LIDS SHALL BE TRAFFIC RATED WITH STEEL LIDS, SEE YUMA COUNTY PROPRIETARY PRODUCTS LIST
  12. SPLICES IN PULL BOXES SHALL BE MADE WITH IDEAL (OR APPROVED EQUAL) SILICONE FILLED WIRE NUTS, SEE YUMA COUNTY PROPRIETARY PRODUCTS LIST
  13. CONTRACTOR SHALL USE COLORED TAPE TO CODE ALL TRAFFIC SIGNAL CONDUCTOR CABLES, AND VIDEO DETECTION CABLES IN EACH PULL BOX
  14. SPLICING OF CONDUCTORS SHALL NOT BE ALLOWED INSIDE CONDUITS

DATE	DESCRIPTION	APPROVED
<p><b>RICK ENGINEERING COMPANY</b> 6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350</p> <p><small>Tucson - San Diego - Riverside - Orange Sacramento - San Luis Obispo - Denver rickengineering.com</small></p>		<p><b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA</p> <p><b>COUNTY 15TH STREET - AVENUE A INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 &amp; NW 33</p>
<p>DATE: 07-14-2020</p> <p>DESIGN: SP</p> <p>DRAWN: MG</p>		<p><b>SIGNAL SCHEDULES</b></p>
CHECKED: SP	HORIZ SCALE: 1"=10'	PURCHASE ORDER 150552
RICK PROJ. No. 5069	VERT SCALE:	YUMA CO CIP NO. 1.9915-E
		<p><b>TS04</b></p> <p>SHEET 23 OF 30</p>



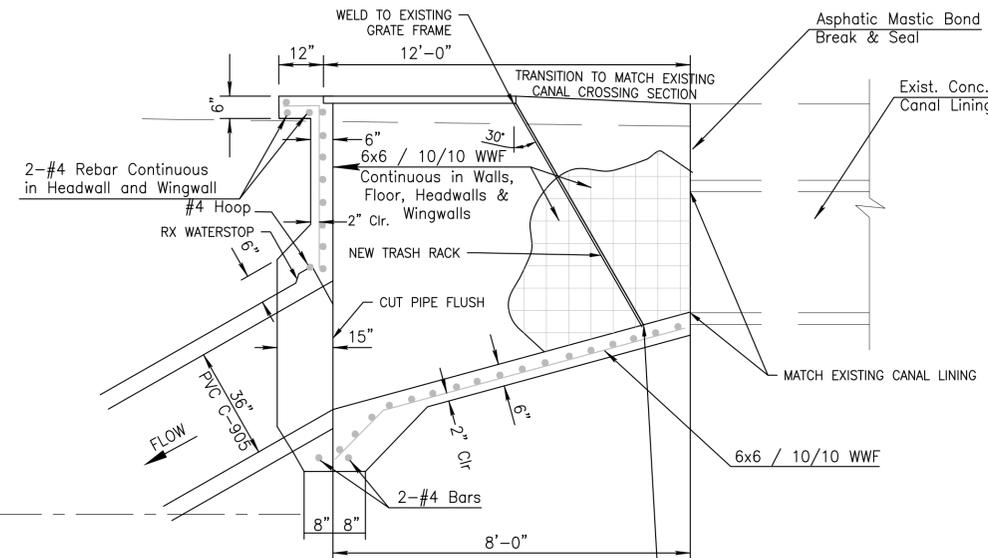
1 SIPHON REPLACEMENT PROFILE



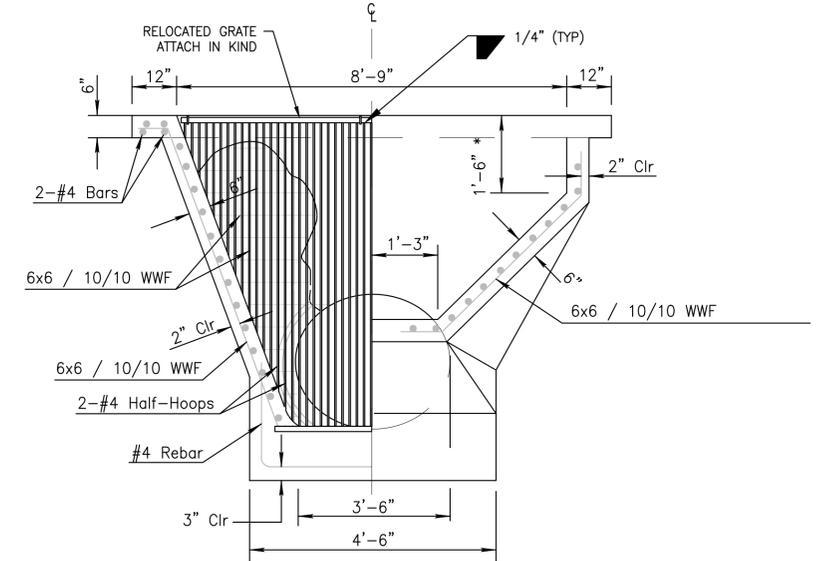
Section A-A OUTLET



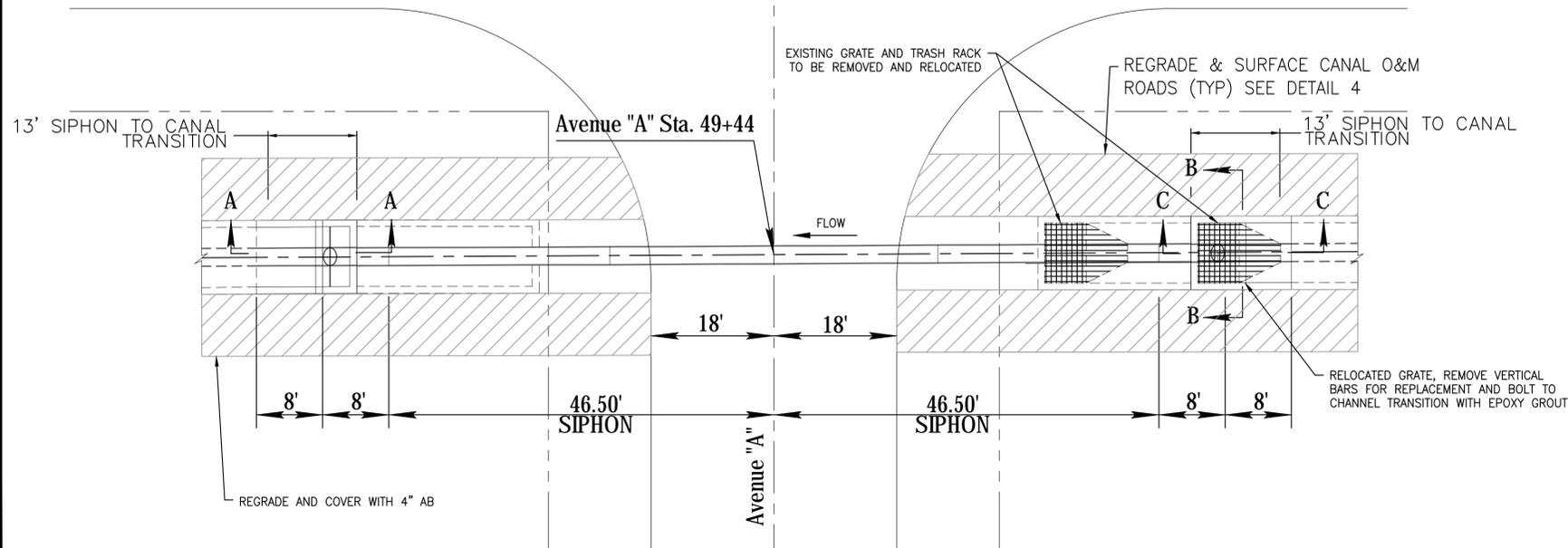
3 EXISTING GRATE/TRASH RACK



Section C-C INLET



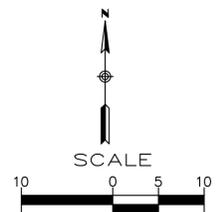
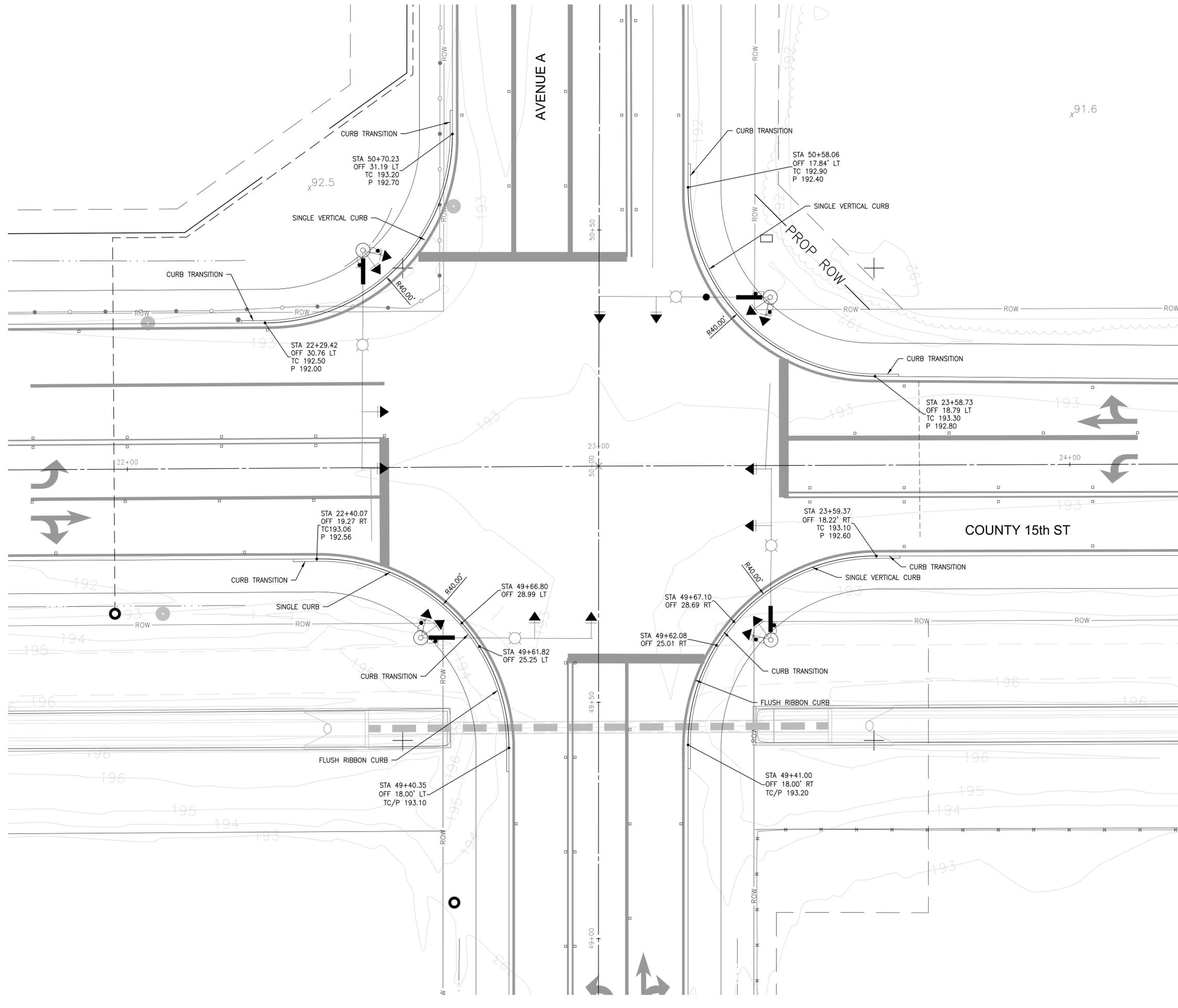
Section B-B INLET



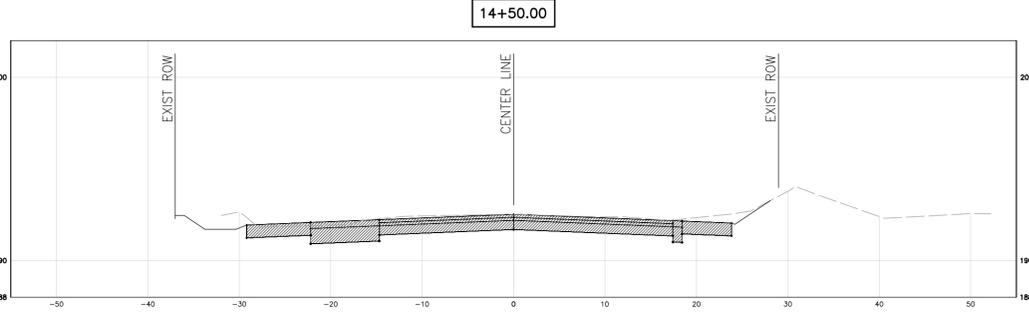
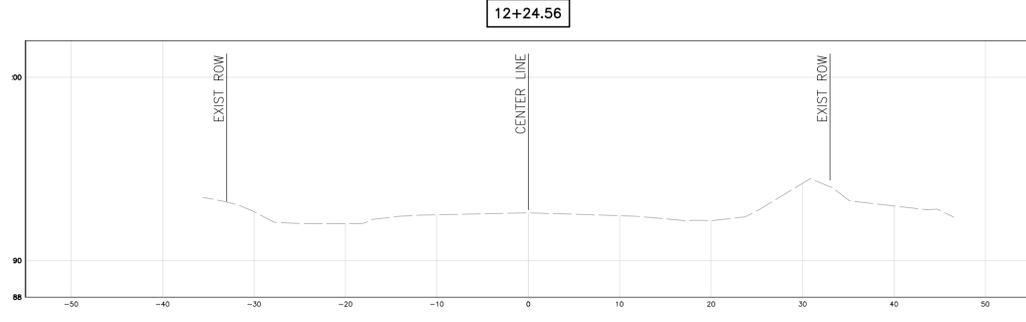
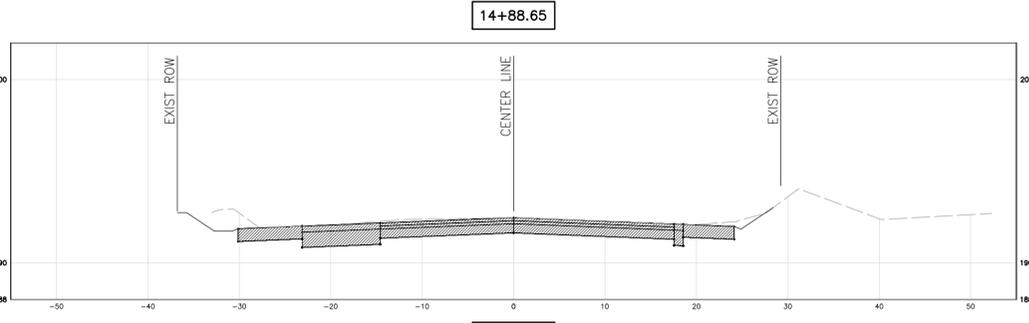
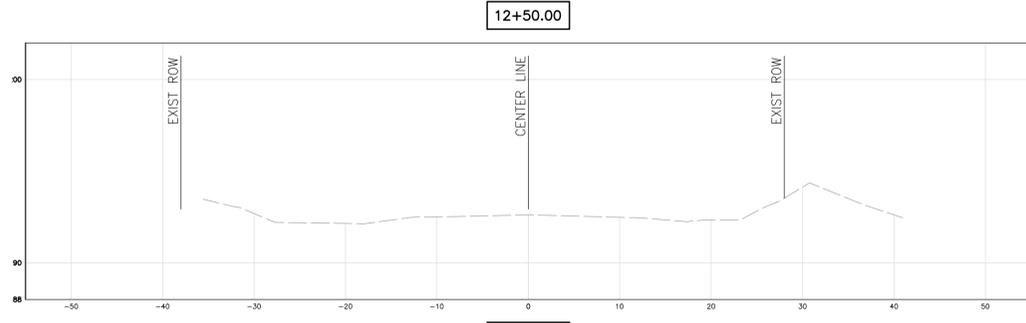
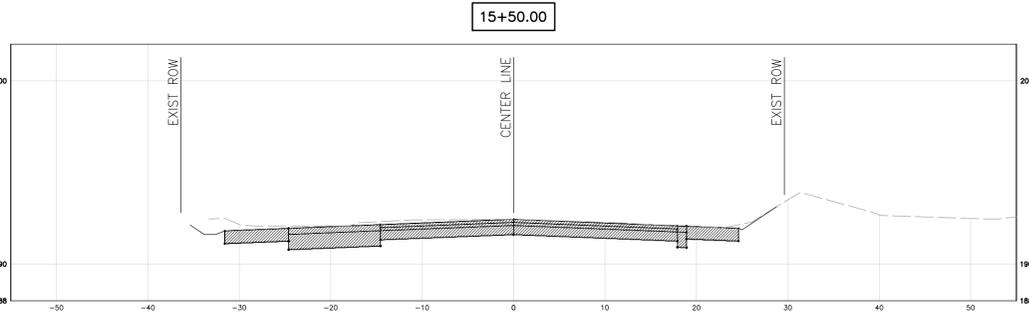
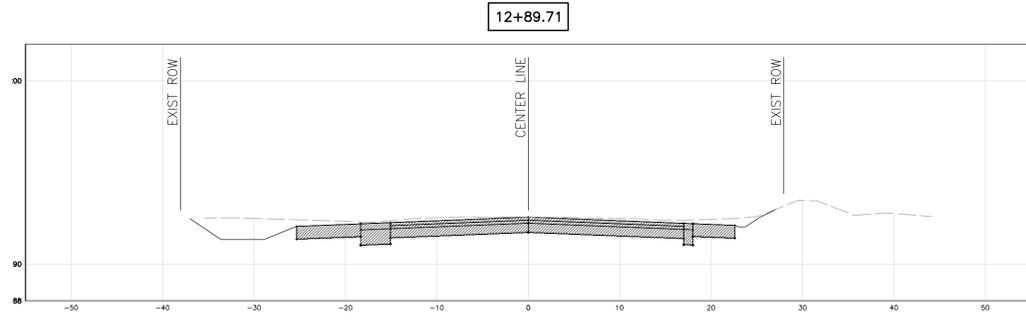
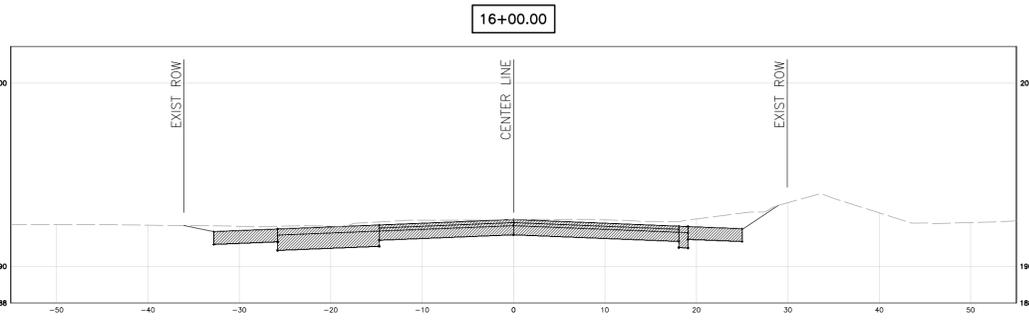
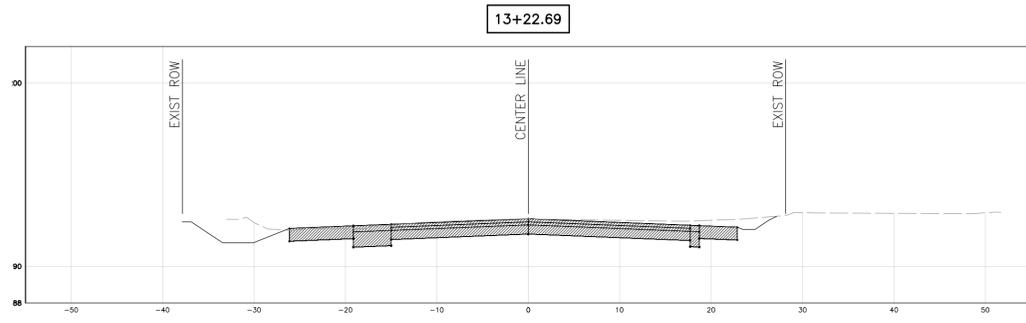
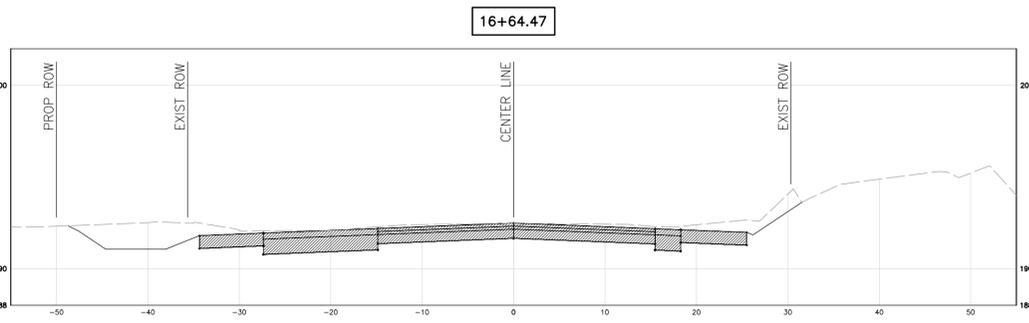
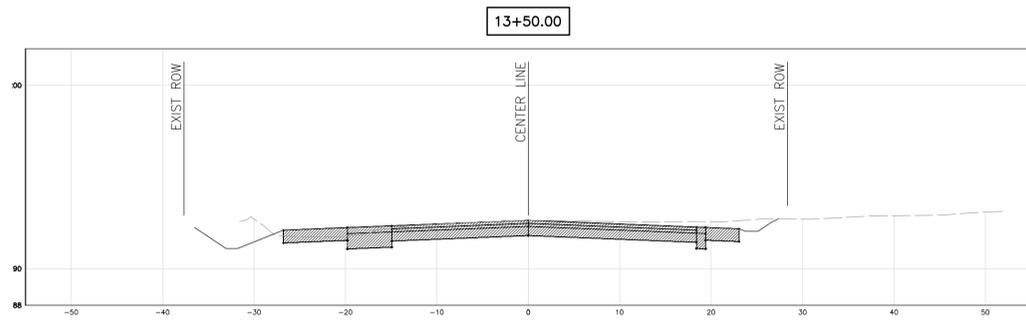
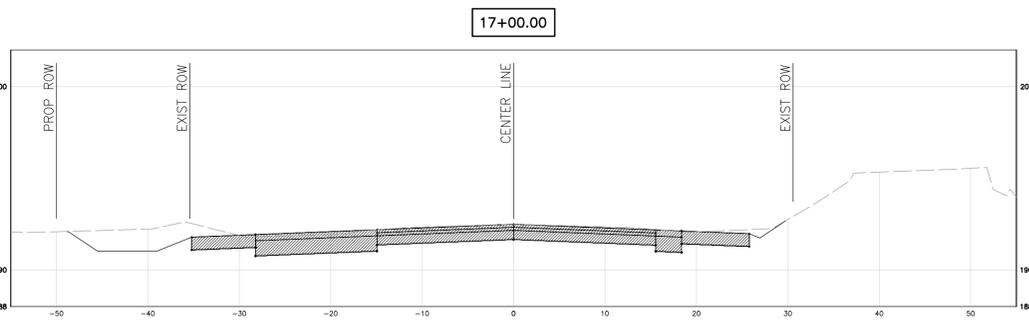
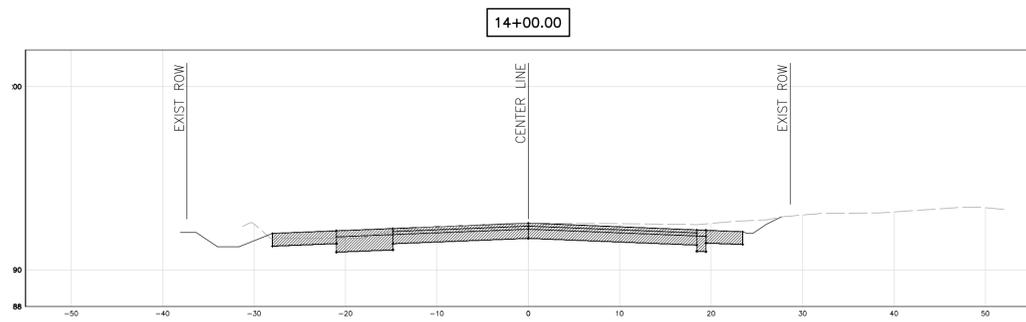
2 SIPHON REPLACEMENT PLAN

NOTES:  
1. SEE SPECIAL PROVISIONS FOR LEAKAGE TEST REQUIREMENTS FOR SIPHON INSTALLATION

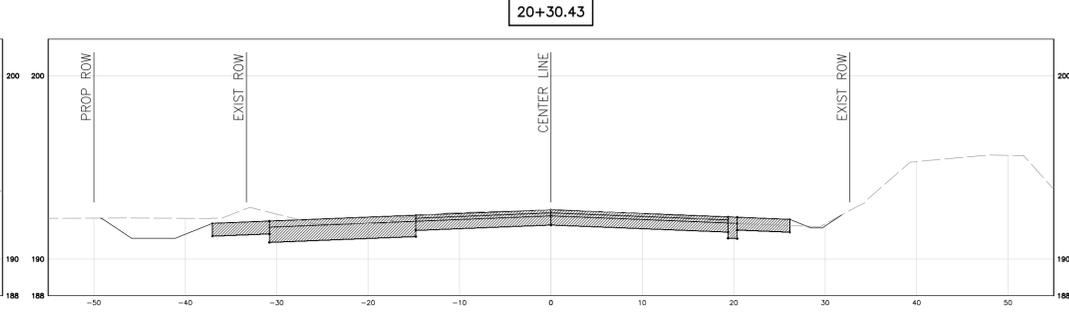
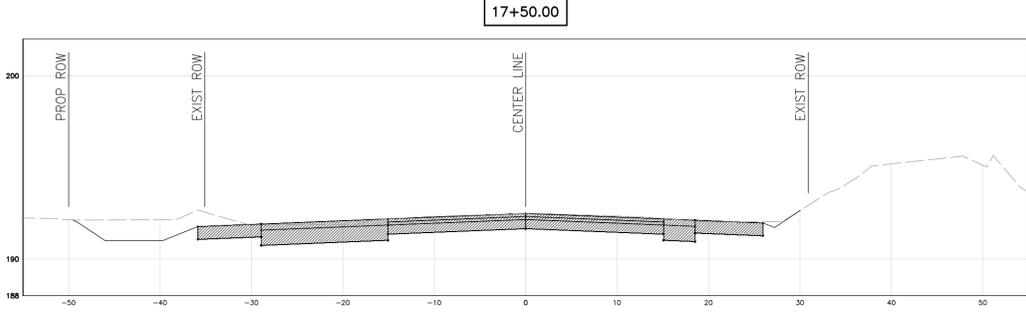
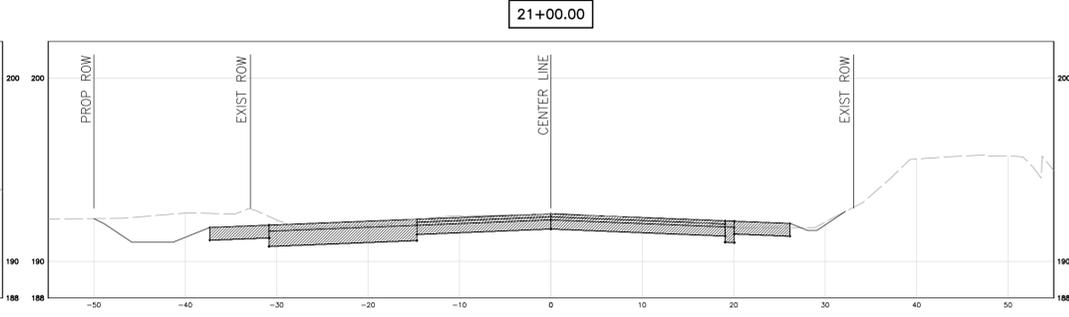
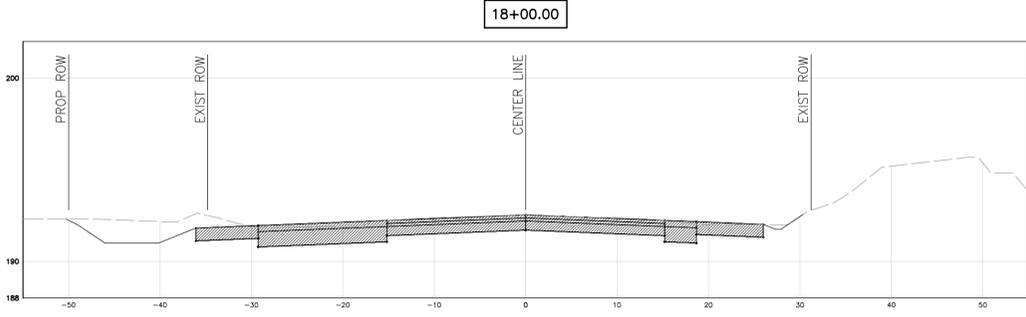
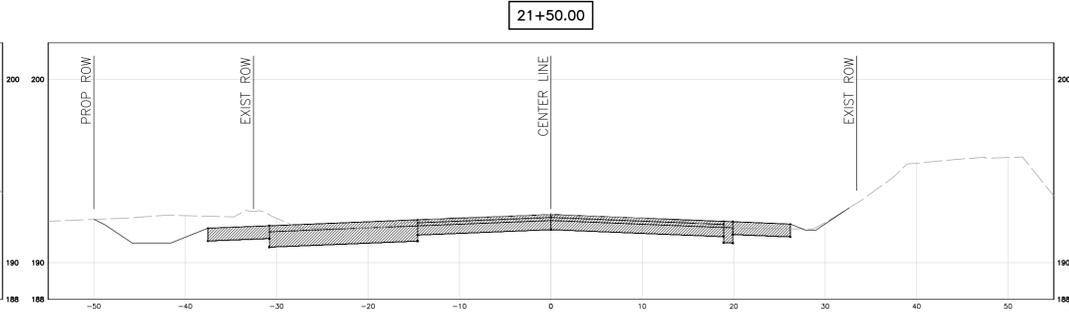
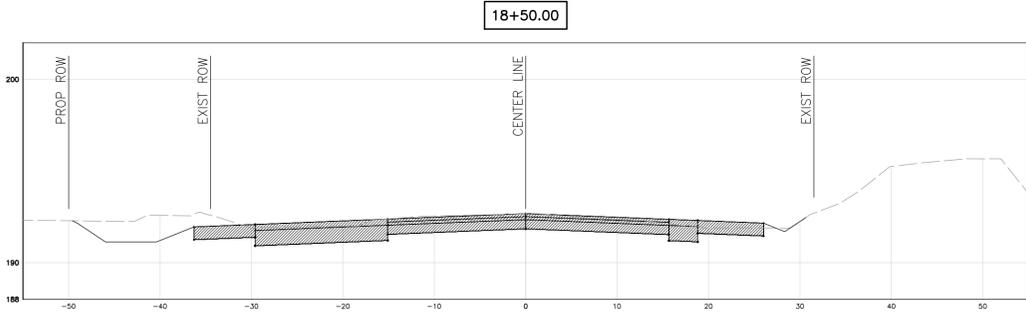
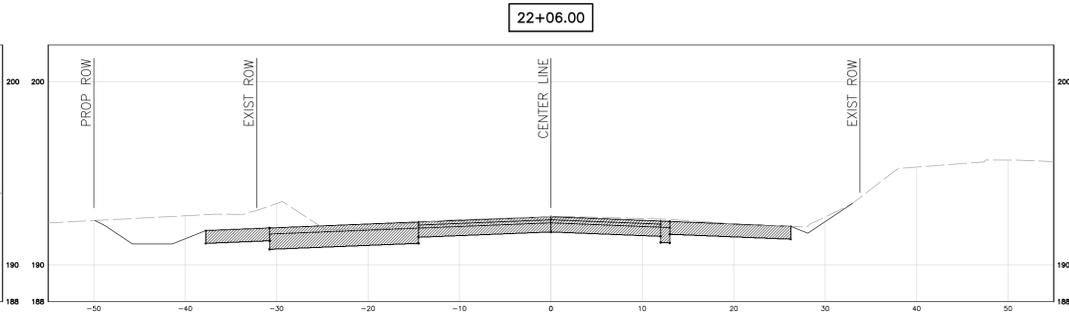
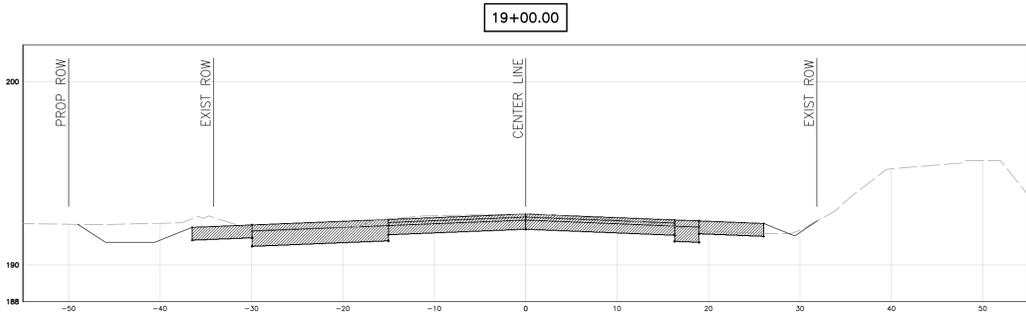
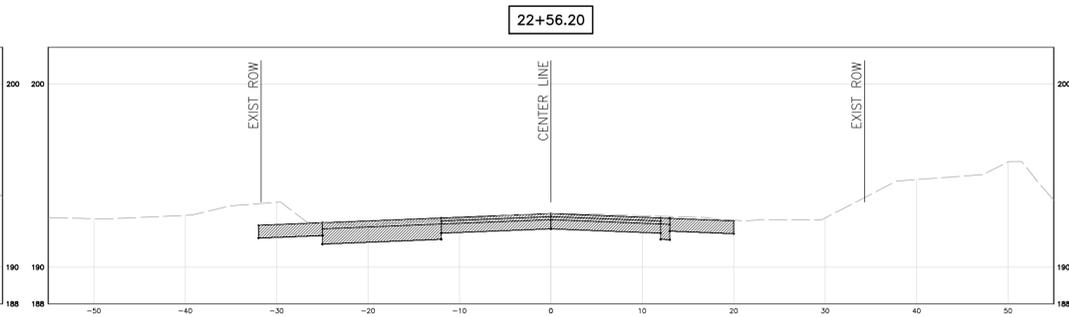
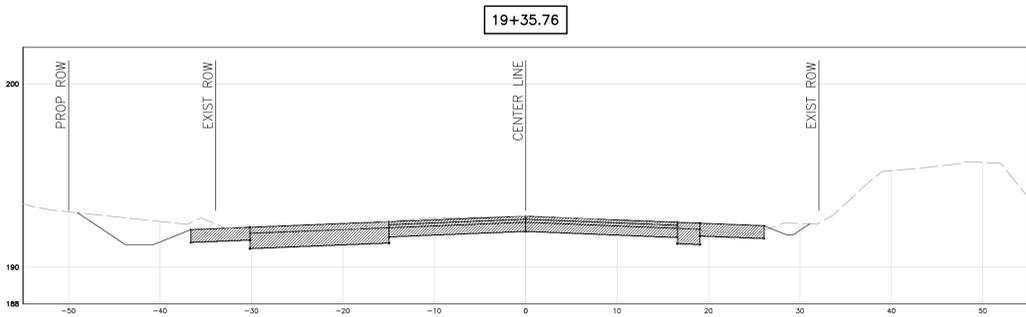
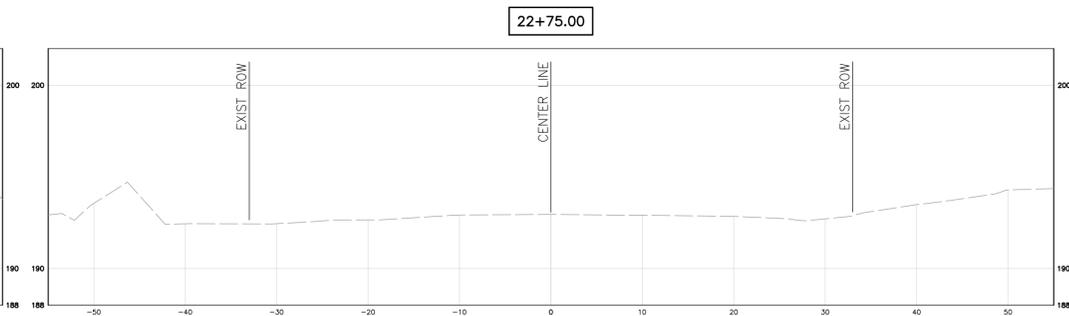
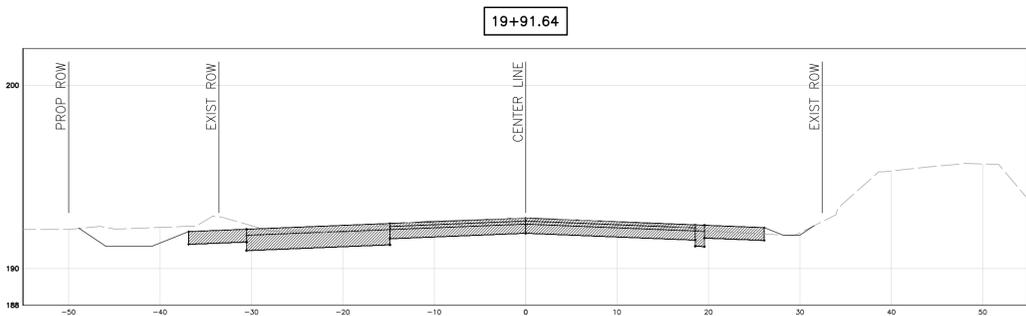
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06/26/2020	REVISED TRASH RACK DETAIL	DATE	DESCRIPTION
DATE	DESCRIPTION	APPROVED	
<b>RICK ENGINEERING COMPANY</b> 6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350		<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA <b>COUNTY 15TH STREET - AVENUE A</b> INTERSECTION IMPROVEMENT PROJECT SECTIONS SW 28, SE 29, NE 32 & NW 33	
<b>DETAILS</b>			
DATE: 07-14-2020	CHECKED: SP	HORIZ SCALE: 1"=20'	PURCHASE ORDER 150552
DESIGN: SP	DRAWN: MG	VERT SCALE:	DT01
RICK PROJ. No. 5069		YUMA CO CIP NO. 1.9915-E	SHEET 24 OF 30



<p>Contact Arizona 811 at least two full working days before you begin excavation</p> <p>Call 811 or click Arizona811.com</p>		
DATE	DESCRIPTION	APPROVED
<b>RICK ENGINEERING COMPANY</b> 6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350 <small>Tucson - San Diego - Riverside - Orange          Sacramento - San Luis Obispo - Denver          rickengineering.com</small>		
<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA <b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 & NW 33		
<b>INTERSECTION GRADING DETAIL</b> <b>COUNTY 15TH ST</b>		
DATE: 07-14-2020	HORIZ SCALE: 1"=20'	PURCHASE ORDER 150552
DESIGN: SP	VERT SCALE:	YUMA CO CIP NO. 1.9915-E
DRAWN: MG		DT02
CHECKED: SP		SHEET 25 OF 30
RICK PROJ. No. 5069		

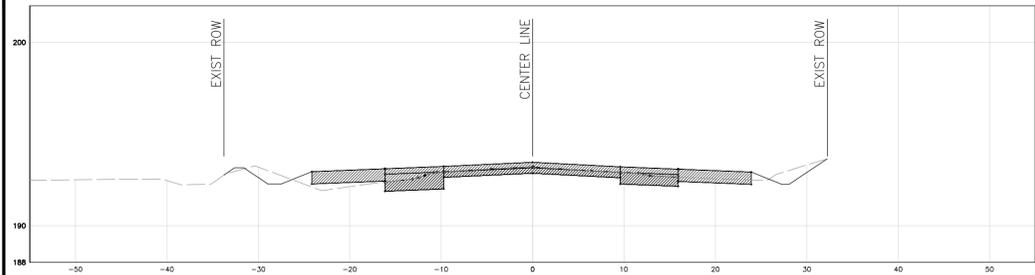


DATE		DESCRIPTION	
		<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA <b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 & NW 33	
CO 15TH CROSS SECTIONS			
DATE: 07-14-2020	CHECKED: SP	HORIZ SCALE:	PURCHASE ORDER 150552
DESIGN: SP	RICK PROJ. No. 5069	VERT SCALE:	YUMA CO CIP NO. 1.9915-E
DRAWN: MG			CS01 SHEET 26 OF 30

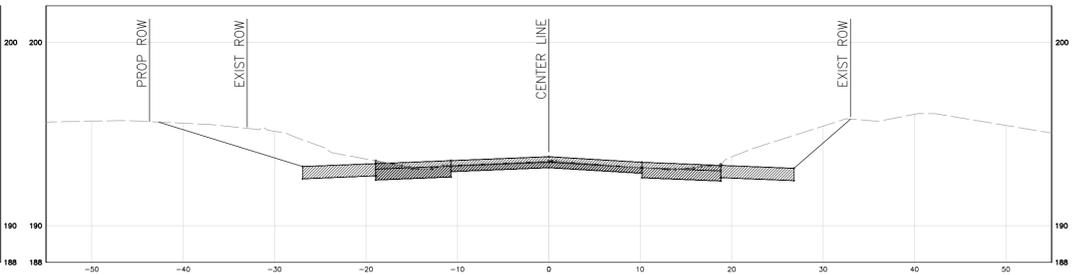


		<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA <b>COUNTY 15TH STREET - AVENUE A</b> <b>INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 & NW 33	
DATE: 07-14-2020 DESIGN: SP DRAWN: MG		CO 15TH CROSS SECTIONS	
CHECKED: SP RICK PROJ. No. 5069	HORIZ SCALE: VERT SCALE:	PURCHASE ORDER 150552 YUMA CO CIP NO. 1.9915-E	<b>CS02</b> SHEET 27 OF 30

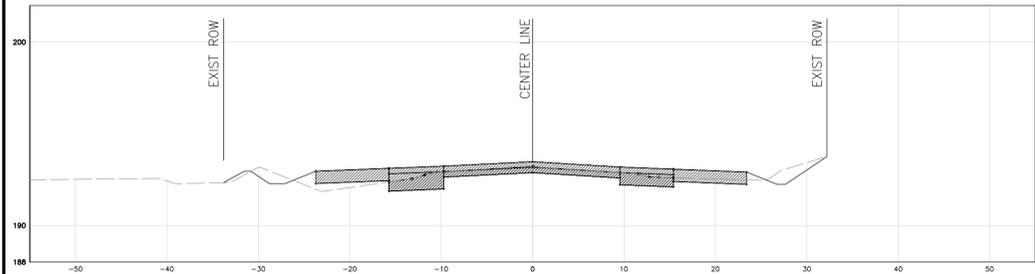
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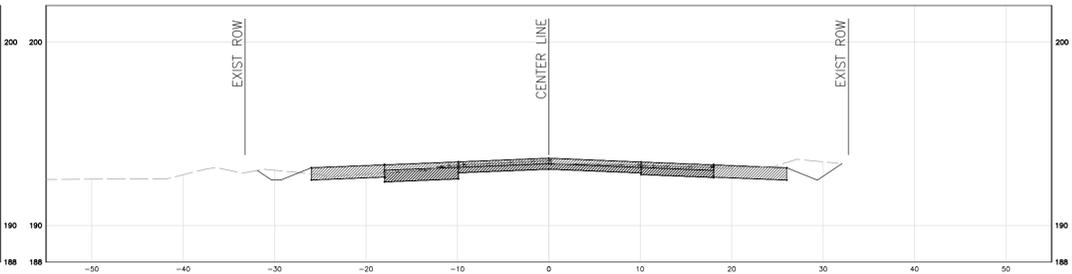
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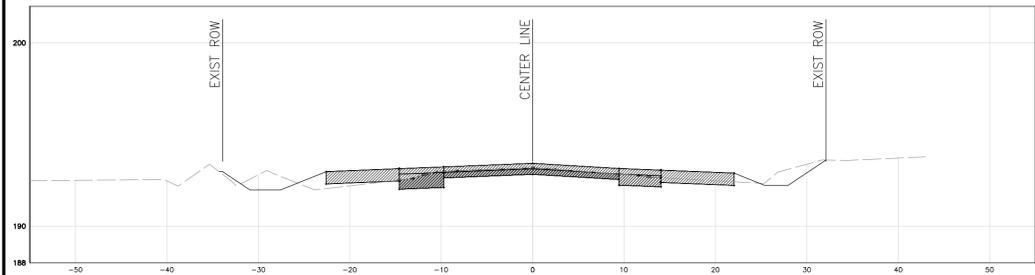
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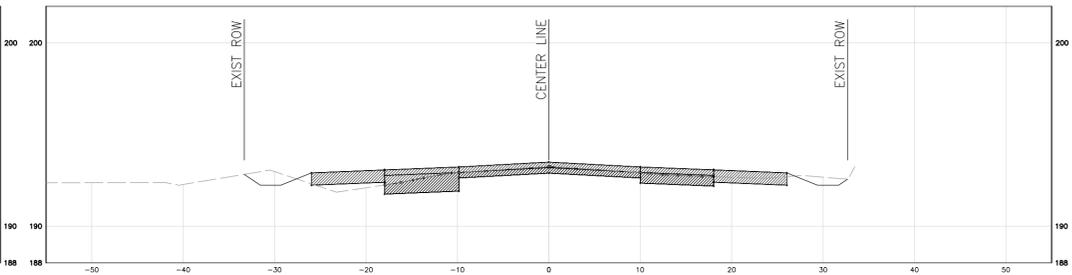
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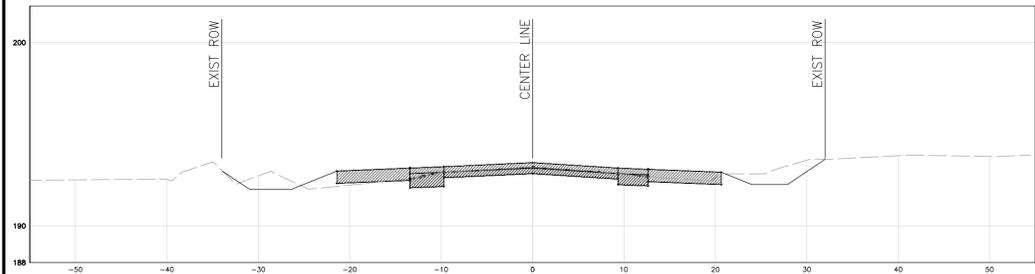
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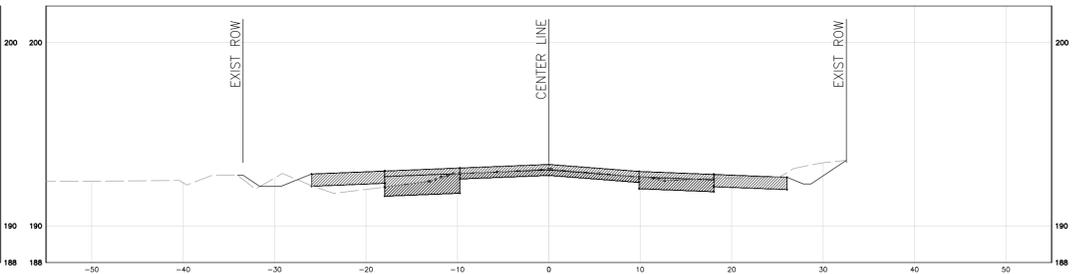
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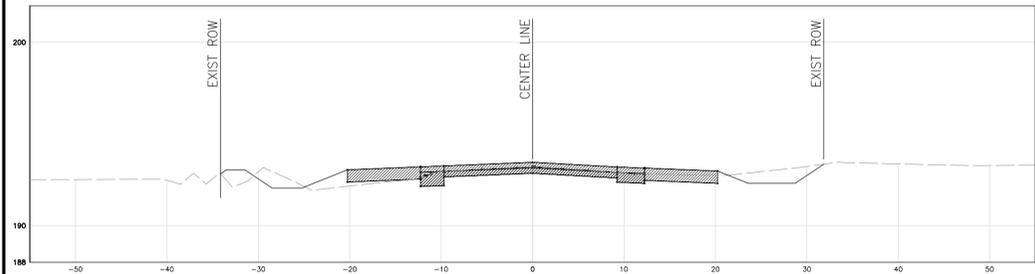
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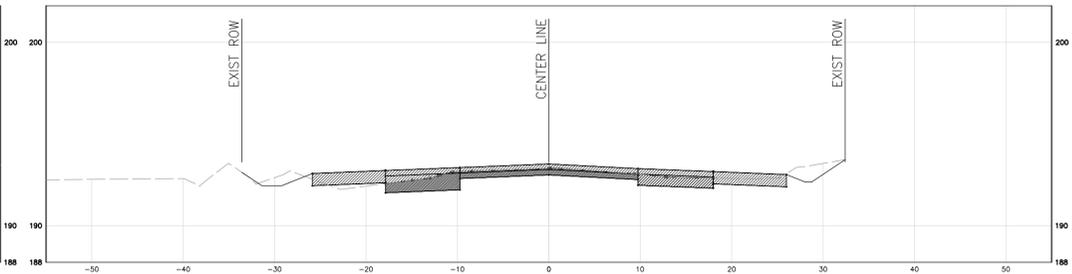
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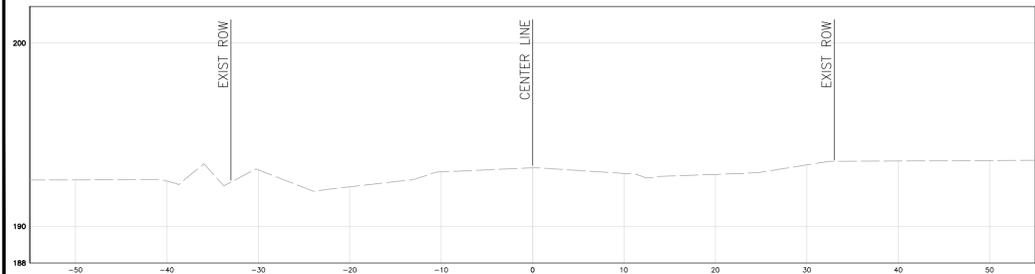
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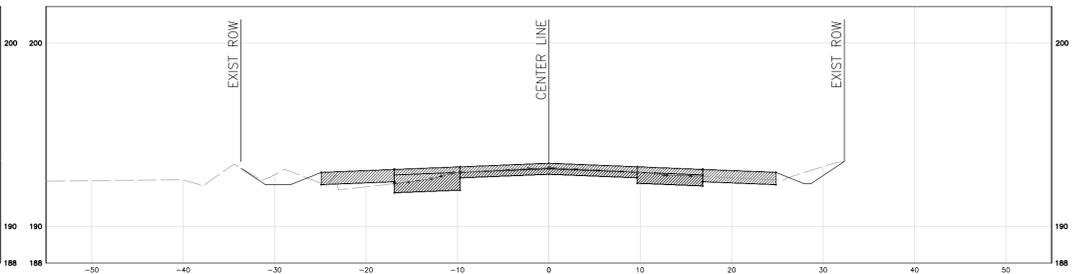
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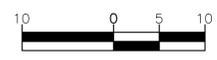
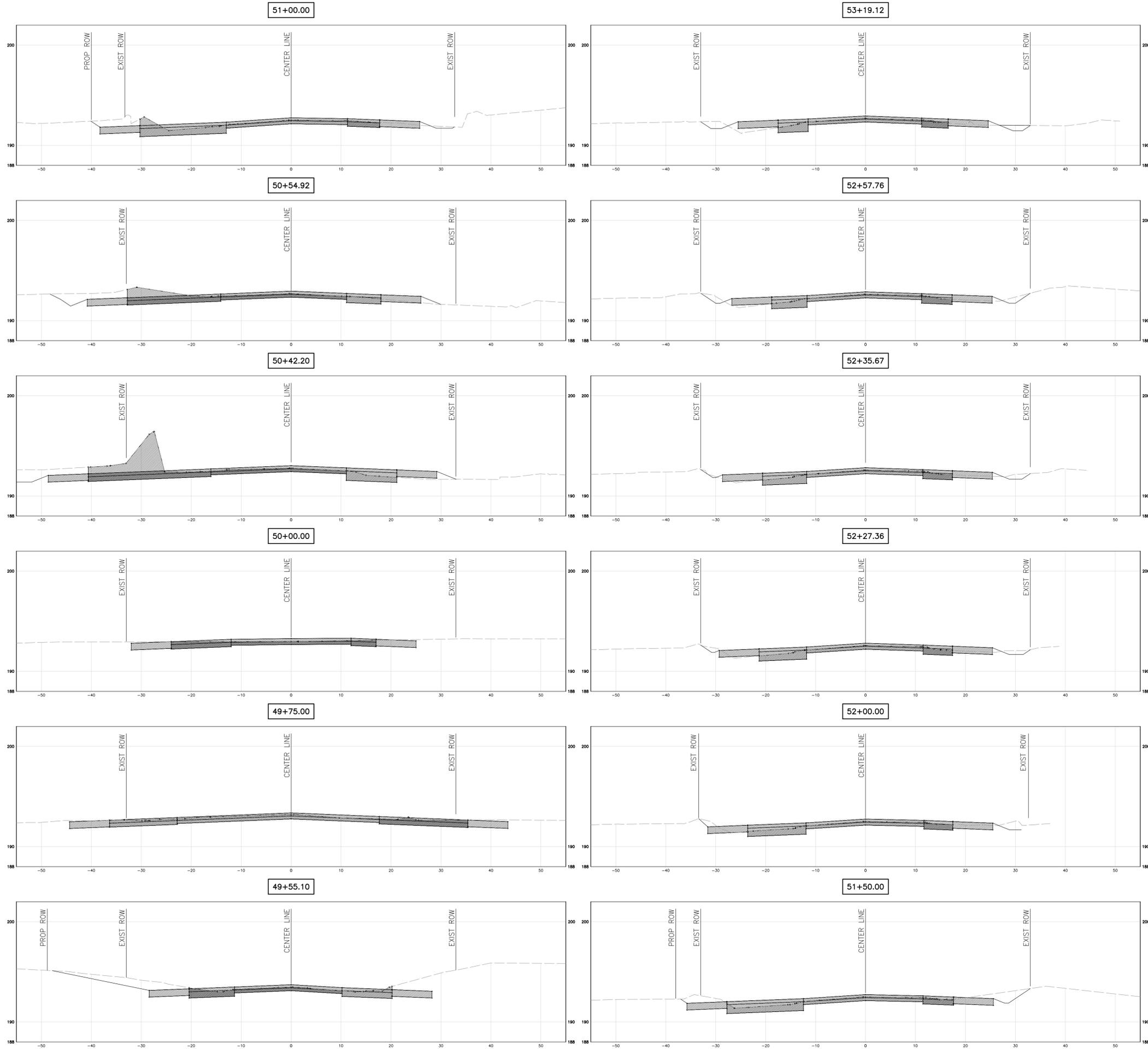


<p>DATE: 07-14-2020</p> <p>DESIGN: SP</p> <p>DRAWN: MG</p>		<p>Expires: 12-31-2020</p>	
<p>CHECKED: SP</p> <p>RICK PROJ. No. 5069</p>		<p>PURCHASE ORDER 150552</p> <p>YUMA CO. CIP NO. 1.9915-E</p>	
<p>HORIZ SCALE:</p> <p>VERT SCALE:</p>		<p>CS03</p> <p>SHEET 28 OF 30</p>	

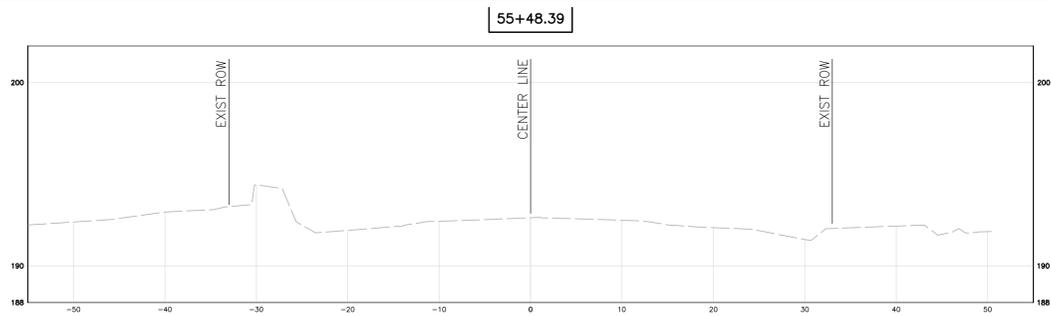
**RICK**  
ENGINEERING COMPANY  
6150 NORTH 16TH STREET  
PHOENIX, AZ 85016  
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Sacramento - San Luis Obispo - Denver  
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**YUMA COUNTY**  
DEPARTMENT OF ENGINEERING  
STATE OF ARIZONA  
**COUNTY 15TH STREET - AVENUE A  
INTERSECTION IMPROVEMENT PROJECT**  
SECTIONS SW 28, SE 29, NE 32 & NW 33

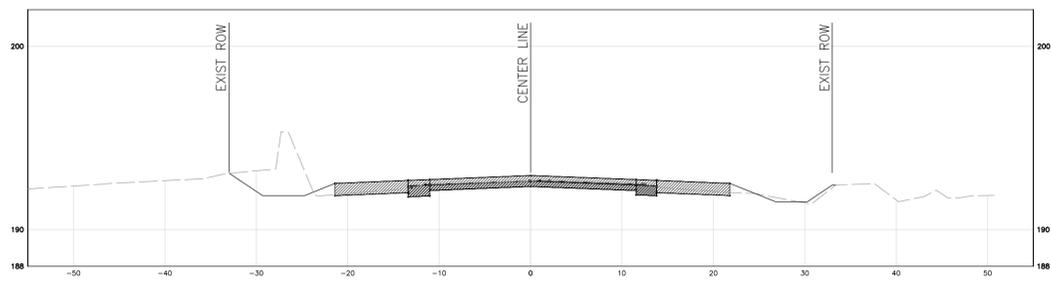
AVENUE A CROSS SECTIONS



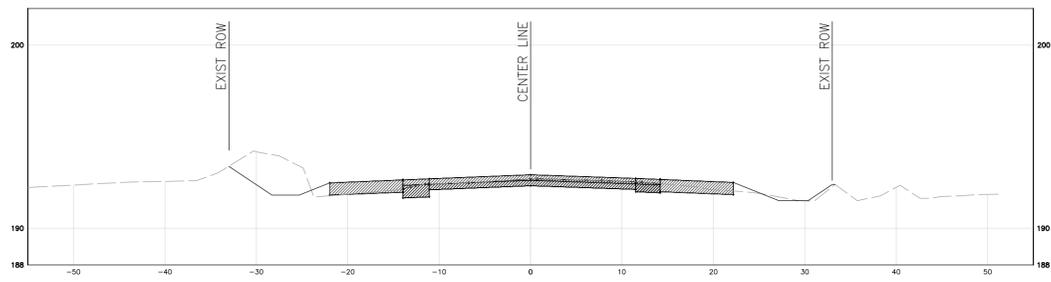
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DATE	DESCRIPTION	APPROVED							
<p><b>RICK ENGINEERING COMPANY</b> 6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350 Tucson - San Diego - Riverside - Orange Sacramento - San Luis Obispo - Denver rickengineering.com</p>		<p align="center">AVENUE A CROSS SECTIONS</p>							
DATE: 07-14-2020	CHECKED: SP	HORIZ SCALE:	PURCHASE ORDER 150552						
DESIGN: SP	RICK PROJ. No. 5069	VERT SCALE:	YUMA CO. CIP NO. 1.9915-E						
DRAWN: MG			<b>CS04</b> SHEET 29 OF 30						



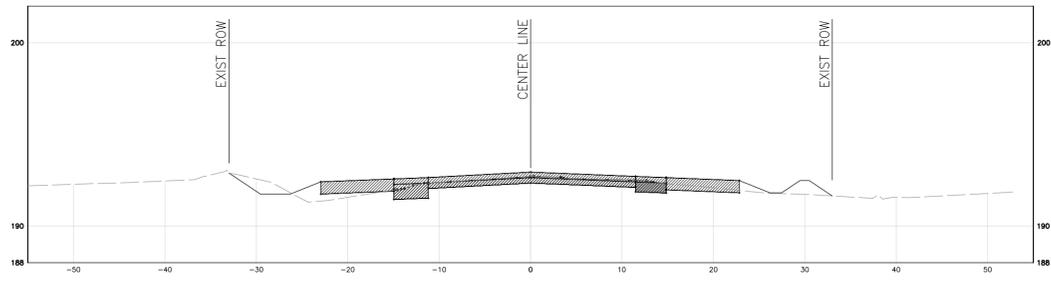
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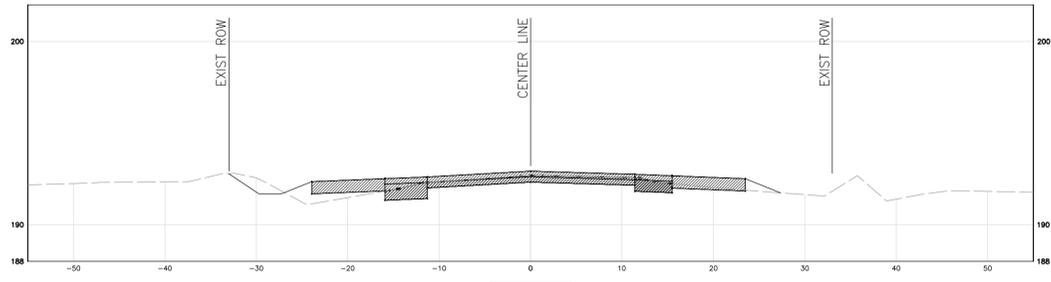
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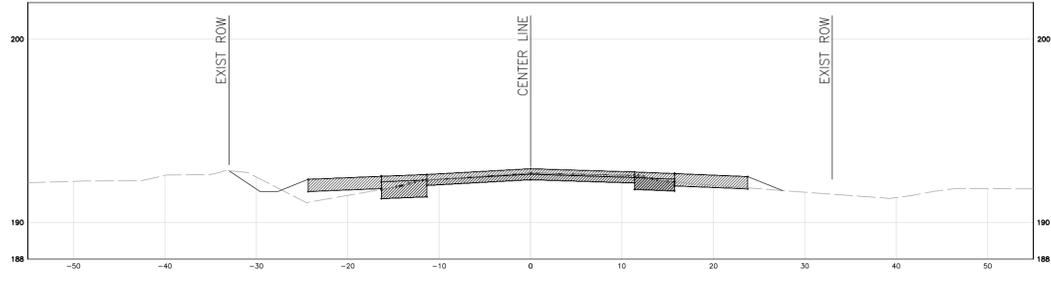
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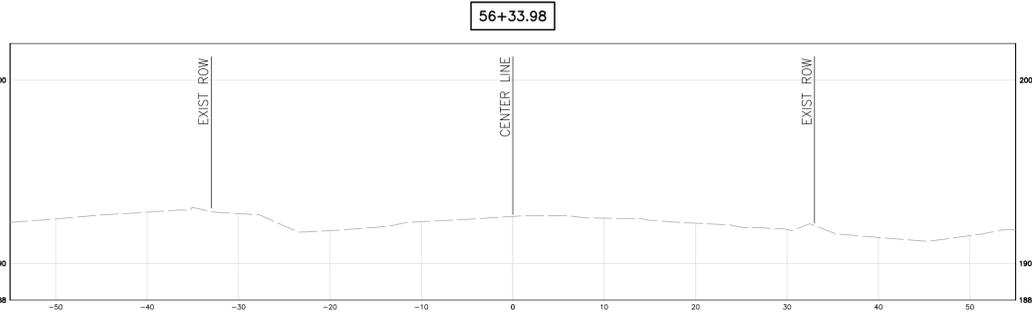
54+50.00



54+00.00



53+79.61



56+33.98



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DATE	DESCRIPTION	APPROVED
<b>RICK ENGINEERING COMPANY</b> 6150 NORTH 16TH STREET PHOENIX, AZ 85016 602.957.3350 <small>Tucson - San Diego - Riverside - Orange          Sacramento - San Luis Obispo - Denver          rickengineering.com</small>		<b>YUMA COUNTY</b> DEPARTMENT OF ENGINEERING STATE OF ARIZONA <b>COUNTY 15TH STREET - AVENUE A          INTERSECTION IMPROVEMENT PROJECT</b> SECTIONS SW 28, SE 29, NE 32 & NW 33
<b>AVENUE A CROSS SECTIONS</b>		
DATE: 07-14-2020	CHECKED: SP	HORIZ SCALE:
DESIGN: SP	RICK PROJ. No. 5069	VERT SCALE:
DRAWN: MG	PURCHASE ORDER 150552	YUMA CO CIP NO. 1.9915-E
		<b>CS05</b> SHEET 30 OF 30