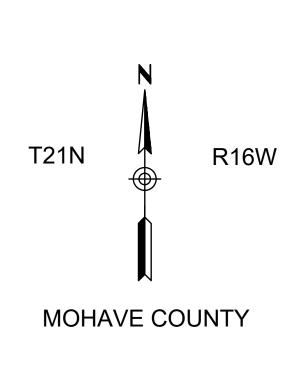
	DRAINAGE NOTES		
NO.	DESCRIPTION	QTY	UN
1	18" RGRCP, CLASS III	114	LF
(2)	18" RGRCP, CLASS IV	390	LF
(3)	24" RGRCP, CLASS III	155	LF
<u>4</u>) <u>5</u>)	8" WATERLINE PVC C-900, CLASS 235 AND THRUST BLOCKS PER STD DTL 381, TRENCH PER COK 392, REMOVE FLUSH VALVE AND EXTEND WATERLINE AS SHOWN	299 86	LF
6	CATCH BASIN PER MAG STD DET 530, L=3.5'	3	E <i>A</i>
7	CATCH BASIN PER MAG STD DET 531 L=5.5'	3	E <i>A</i>
8	CATCH BASIN PER MAG STD DET 532 L=8.0'	1	EA
9	CATCH BASIN PER MAG STD DET 533-1 L=17'	5	E <i>A</i>
10	12" WATERLINE PVC C-900, CLASS 235 AND THRUST BLOCKS PER STD DET 381, TRENCH PER COK SET 392	342	LF
(11)	MANHOLE PER MAG STD DET 520 & 522 & CITY OF KINGMAN DET 422	8	E.A
(12)	FIVE BARREL 10' X 6' BOX CULVERT PER ADOT STD DET SD 6.05, SEE SHEET DT06 & DT07	139	LF
(13)	HEADWALL PER MAG STD DET 501, "U TYPE"	1	EA
(14)	INLET WING PER ADOT STD DET SD 6.10, LENGTH PER PLAN, SEE SHEET DT08 & DT09	2	EA
(15)	OUTLET WING PER ADOT STD DET SD 6.10, LENGTH PER PLAN, SEE SHEET DT08 & DT09	2	E.A
(16)	SAFETY RAIL PER MAG STD DET 145, TYPE 1	242	LF
(17)	GROUTED RIPRAP PER MAG SECTION 220, D50=6", T=12"	48	CY
(18)	GROUTED RIPRAP PER MAG SECTION 220, D50=12", T=24"	13	CY
(19)	MATCH EXISTING 6" CONCRETE CHANNEL LINING	1,206	SY
20	EXTRA PROTECTION CONCRETE ENCASEMENT PER MAG STD DET 404	3	EA
21	FLUSHING PIPE ASSEMBLY PER COK STD DET 390	2	EA
22	CATCH BASIN PER DETAIL ON SHEET DT14	1	E <i>A</i>
23	CONCRETE PIPE COLLAR PER MAG STD DET 505	2	E <i>F</i>
24	8" SDR 35 SEWER PIPE, REMOVE CLEANOUT AND EXTEND SEWERLINE AS SHOWN	57	LF
25	6" WATERLINE PVC C-900, CLASS 235 AND THRUST BLOCKS PER STD DTL 381, TRENCH PER COK 392	309	LF
26	NEW FENCE TO TIE INTO OLD FENCE	2	E <i>A</i>
27	INSTALL FENCE PER COK STD DET 160 WITHOUT BARBED WIRE	371	LF
28	CONNECT TO EXISTING 12" WATERLINE WITH AN 12" X 12" TAPPING SLEEVE AND VALVE, BOX AND COVER PER MAG DETAIL 340	2	EA
29	SEWER CLEANOUT PER COK STD DET 441	2	E <i>A</i>
(30)	6" TEE WITH RESTRAINED JOINTS PER MAG STD DTL 303-1 & 303-2	2	E <i>A</i>
(31)	CONNECT TO EXISTING 6" WATERLINE WITH AN 6" X 6" TAPPING SLEEVE AND VALVE, BOX AND COVER PER MAG DETAIL 340	2	E <i>F</i>

CITY OF KINGMAN, ARIZONA EASTERN STREET DESIGN PHASE 1

I-40 NORTH RIGHT-OF-WAY LIMITS TO AIRWAY AVENUE CITY OF KINGMAN PROJECT NO. ENG 21-0001

DATE: FEBRUARY 2023



BENCHMARKS

PRIMARY HORIZONTAL CONTROL

BENCHMARK #1

3 INCH BRASS CAP FLUSH IN CONCRETE
SOUTHEAST CORNER OF SECTION 7 NAVD88

EL = 3508.33'

N 15323735519'

E 622033.7759'
#565

PRIMARY VERTICAL CONTROL
BENCHMARK #2
NGS BENCHMARK DESIGNATION D 525 4 IN
BRASS CAP FLUSH IN CONCRETE SOUTHWEST
CORNER OF INTERSECTION OF EASTERN
STREET WITH LOUISE AVENUE NAVD88 EL =
3564.67'
N 1528314.7549'
E 622013.2833

SECONDARY HORIZONTAL AND VERTICAL

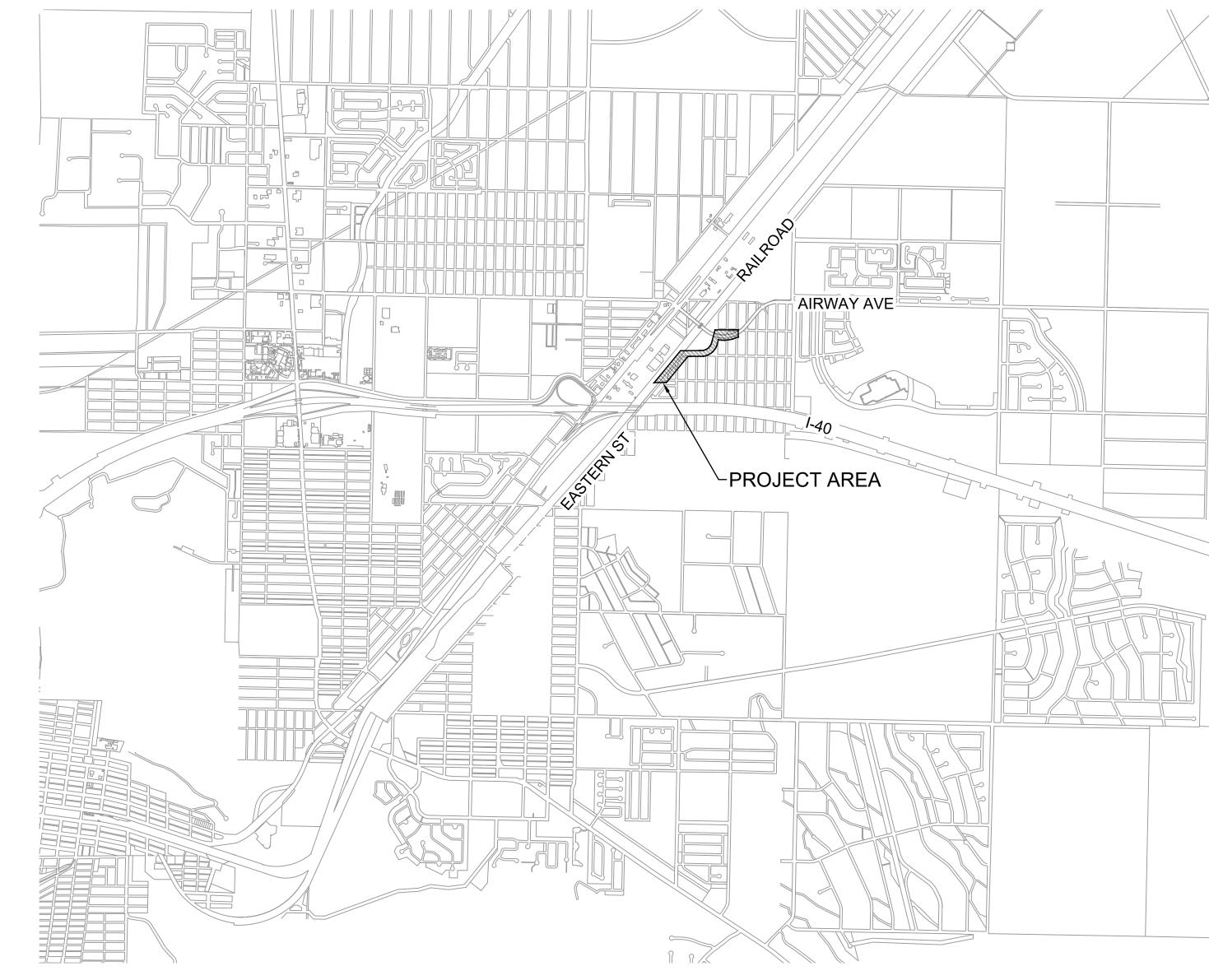
BENCHMARK #3
GLO BRASS CAP IN HANDHOLE EAST
QUARTER CORNER OF SECTION 18 NAVD88
EL=3541.82'
N 1529730.6415'
E 622033.8721'
HORIZONTAL=#566

BENCHMARK #4
2 INCH ALUMINUM CAP IN CONCRETE WEST
QUARTER CORNER OF SECTION 8
NAVD88 EL=3467.20'
N 1535014.3409'
E 622040.3899'

BENCHMARK #5
3 INCH GLO BRASS CAP IN CONCRETE WEST
QUARTER CORNER OF SECTION 8
NAVD88 EL=3440.03'
N 1537650.8357'
E 624688.3788'

=#571

BENCHMARK #6
2 INCH ALUMINUM CAP FLUSH IN CONCRETE SOUTH QUARTER CORNER OF SECTION 8
NAVD88 EL=3526.72'
N 1532369.2597'
E 624674.1332'
#580



VICINITY MAP
SCALE: 1"=2000'

BASIS OF BEARING

THE BASIS OF BEARING FOR THIS PROJECT IS S89*54'25"E OF THE SOUTHWEST QUARTER OF SECTION 8, T21N, R16W OF THE GILA & SALT RIVER MERIDIAN, MOHAVE COUNTY, ARIZONA CALCULATED FROM COORDINATE VALUES SHOWN ON THE RETRACEMENT AND DEPENDENT RESURVEY BY TRIMBLE GPS OF SECTIONS 1-23 AND 26-35 OF T.21 N., R.16 W., G.&S.R.M., MOHAVE COUNTY, ARIZONA. THIS SURVEY WAS PERFORMED BY THE CITY OF KINGMAN SURVEYING DEPARTMENT, SIGNED & SEALED BY JACK M. KESSLER PLS#8904 ON 10/28/03 AND RECORDED IN THE MOHAVE COUNTY RECORDER'S OFFICE AS RECEPTION NUMBER 2003-92693.

CONTROL INFORMATION

ALL BEARINGS ARE GROUND/GRID BEARINGS

ALL DISTANCES ARE GROUND DISTANCES (INTERNATIONAL FEET)

COORDINATES SHOWN ARE BASED ON NAD83 ARIZONA STATE PLANE PROJECTION SYSTEM — WEST ZONE — GROUND COORDINATES (INTERNATIONAL FEET)

ELEVATIONS SHOWN ARE BASED ON NAVD88

THE GRID TO GROUND SCALE FACTOR UTILIZED FOR THIS PROJECT IS 1.00023215388

SHEET INDEX

<u>NO.</u>	DWG NO.	<u>DESCRIPTION</u>
1	CS	COVER SHEET
2	KM	KEY MAP
3	IX	ABBREVIATIONS/LEGEND
4 - 5	GN	GENERAL NOTES
6	TX	TYPICAL SECTIONS
7 – 8	GC	GEOMETRIC CONTROL
9 - 11	HC	HORIZONTAL CONTROL
12 – 25	DT	DETAILS
26 – 40	PV/PR	ROADWAY PLAN AND PROFILE SHEETS
41	DW	DRIVEWAY PROFILES
42 – 49	DR	DRAINAGE PLAN AND PROFILE SHEETS
50 – 51	DR	CONNECTOR PIPE PROFILES
52 – 55	SM	SIGNING AND MARKING
56 – 58	TS	TRAFFIC SIGNAL

REMOVAL NOTES

QTY | UNIT

7,960

5,170

1,710

283

2,063

EA

SY

DESCRIPTION

SAWCUT & REMOVE EXISTING

REMOVE & RELOCATE EXISTING FIRE HYDRANT PER COK STD

REMOVE & RELOCATE EXISTING

POWER POLE BY OTHERS

REMOVE CONCRETE CURB &

WORKS. WHERE APPLICABLE COK WILL SUPPLY NEW SIGNS. NEW BASE AND POST TO BE

INSTALLED PER COK DET 132

EXISTING CONCRETE TO BE

RELOCATE EXISTING UTILITY

RELOCATE EXISTING WATER

RELOCATE EXISTING WATER

REMOVE EXISTING ACCESS

REMOVE EXISTING WING WALL

REMOVE EXISTING CHANNEL

STD DTL 200-1 TYPE "A"

LINING AND BACKFILL PER MAG

REMOVED

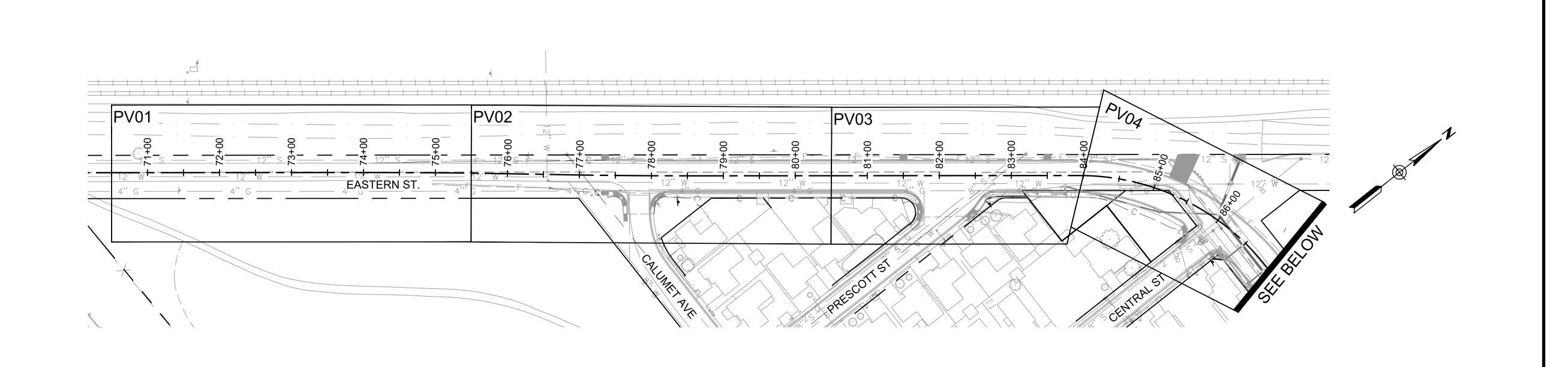
EXISTING SIGN TO BE SALVAGED AND RETURNED TO COK PUBLIC

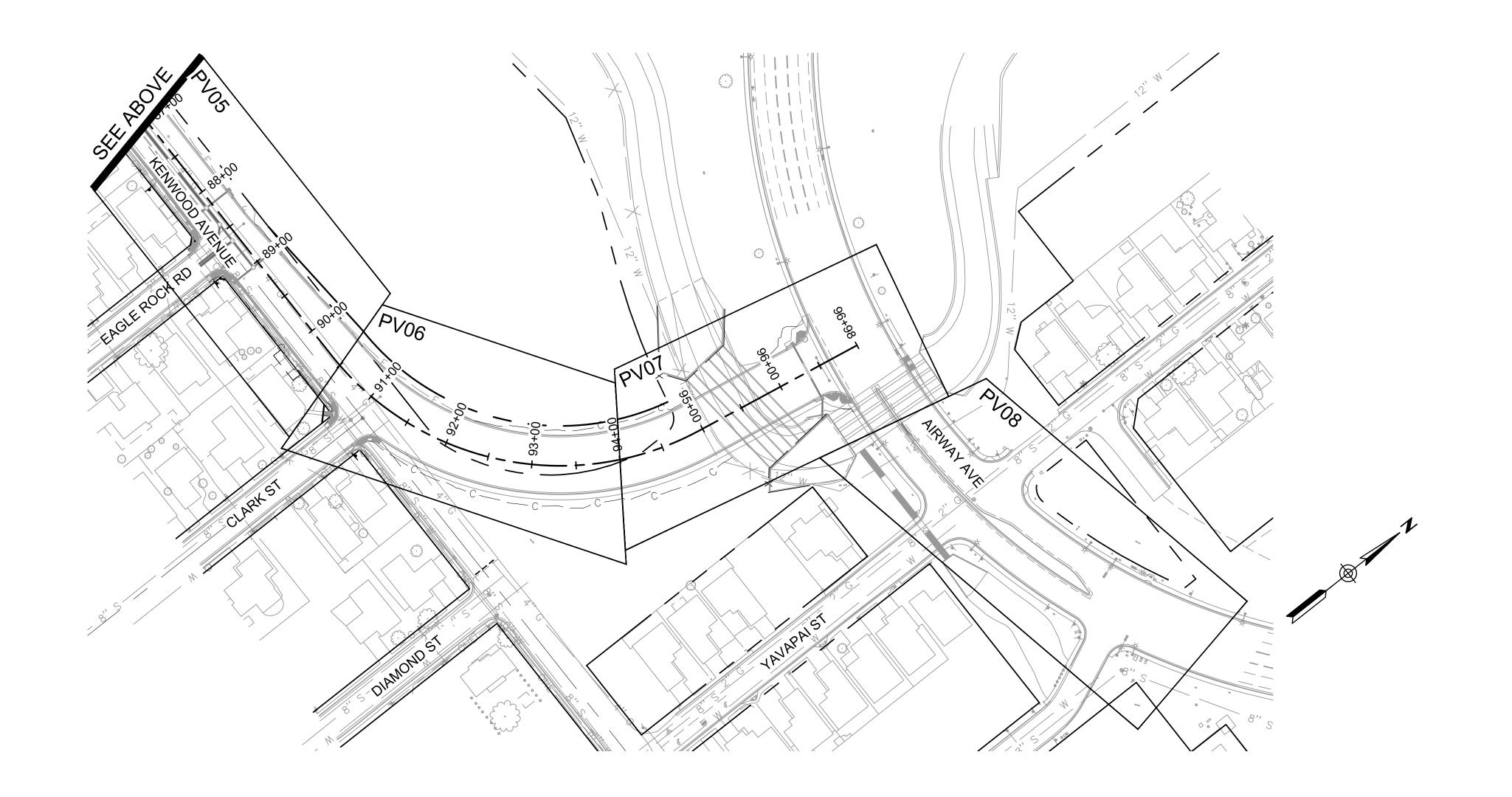
REMOVE SIDEWALK

	52 - 55	S	М	SIG
	56 - 58	Т	S	TRA
	PAVING NOTES			
NO.	DESCRIPTION	QTY	UNIT	NO.
1	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO.1	13,536	SY	A
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE PREP)	13,536	SY	В
3	CURB & GUTTER PER MAG STD DET 220	3,858	LF	
4	SIDEWALK PER COK STD DET 230	10,334	SF	
5	SIDEWALK RAMP PER COK STD DET 233	7	EA	E
6	CONCRETE DRIVEWAY PER MAG STD DET 250-2 MATCH EXST WIDTH, MIN 16'	1	EA	F
7	RESET FRAME AND COVER FOR MANHOLE PER COK STD DET 422	3	EA	
8	RESET FRAME & COVER FOR WATER VALVE PER COK DET.	9	EA	G
	391.1 SINGLE CURB PER MAG STD DET			H
9	222 TYPE A	340	LF	
10	SIDEWALK RAMP PER MAG STD DET 238-2	1	EA	J
11)	DRIVEWAY/RAMP PER DETAIL SHEET DT02	168	SF	М
12	CURB TERMINATION TYPE A PER MAG STD DET 222	8	EA	K
13	CURB TRANSITION TYPE A TO TYPE C PER MAG STD DET 221	9	EA	L
14)	SIDEWALK RAMP PER MAG STD DET 237-1	2	EA	
15	EXISTING SURVEY MARKER TO BE RESET BY COK SURVEY DEPARTMENT (NON PAYMENT ITEM)	6	EA	
16	CURB TRANSITION TYPE A TO TYPE E PER MAG STD DET 220-2	2	EA	
17	6" REMOVABLE TYPE-2 BOLLARD PER MAG STD DET 140	4	EA	
18	SIDEWALK RAMP PER MODIFIED COK DET 236	1	EA	
19	VALLEY GUTTER PER MAG STD DET 240	470	SF	
20	PRESERVE EXISTING LANDSCAPING BETWEEN NEW S/W AND EXISTING BLOCK WALL	1	EA	
21)	MODIFIED SIDEWALK RAMP PER COK STD DET 233 SEE DETAIL G ON SHEET DT02	1	EA	













EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO.
ENG 21-0001

FILENAME

RITOCH-POWELL

WWW.RPAENG.COM

& Associates

602-263-1177

02-221038-KM01.dwg

CITY OF KINGMAN

ENGINEERING DEPARTMENT
310 NORTH 4TH STREET
KINGMAN, ARIZONA 86401
PHONE (928) 753-8122 FAX (928) 753-8118

EASTERN STREET

KEY MAP

SHEET NO. **KM01**02 OF 58

ABBREVIATIONS

 AC MAXACRES MAXIMUM AB AGGREGATE BASE **MEASURED** (M) AHEAD AHD MILE POST AIR RELEASE VALVE ARV MILLIMETER ALUMINUM MINIMUM ANGLE POINT AP MINUTES APPROX MISC APPROXIMATE MISCELLANEOUS ARIZONA DEPARTMENT OF ADOT MONUMENT MON TRANSPORTATION NATIONAL GEODETIC VERTICAL DATUM NGVD ASPHALTIC CONCRETE NATURAL GROUND NG ASSESSORS PARCEL NUMBER APN NORTH AVENUE AVE NOT TO SCALE NTS BACK OF CURB B/C NUMBER NO BCR OFFSET OFF BACK OF CURB RETURN BFP OUTSIDE DIAMETER BACKFLOW PREVENTER OD BEG BEGIN PARCEL PAR BLACK BK PARKWAY PKWY BLVD **PAVEMENT PVMT** BOULEVARD BRASS CAP **PEDESTRIAN** PED CALCULATED PLACE CATCH BASIN CB POINT OF COMPOUND CURVE C/L OR **﴿** CENTERLINE POINT OF CURVATURE CITY OF KINGMAN COK POINT OF INTERSECTION CBC POINT OF REVERSE CURVE CONCRETE BOX CULVERT CAST IN PLACE CONCRETE PIPE CIP / C.I.P. POINT OF TANGENT PΤ POC CONSTR CONSTRUCTION POINT ON CURVE POT CORNER COR POINT ON TANGENT CO POST COUNTY POINT ON SEMI-TANGENT **DEGREES** PORTLAND CEMENT CONCRETE PAVEMENT PCCP PROPOSED PROP DEGREE OF CURVE PROTECT IN PLACE DELTA PIP DEPARTMENT DEPT PUBLIC UTILITY EASEMENT PUE DETAIL DET RADIUS DRAWING DWG RAILROAD DRAIN R&C DRAINAGE REBAR AND CAP RECORD DRIVE DR DRIVEWAY D/W REINFORCED CONCRETE PIPE RCP DIP / D.I.P. RUBBER GASKET REINFORCED **RGRCP** DUCTILE IRON PIPE CP EACH EΑ CONCRETE PIPE EASEMENT **ESMT** R / RT RIGHT EAST RIGHT-TURN LANE RTL EDGE OF PAVEMENT RIGHT OF WAY R/W ELECTRIC JUNCTION BOX EJB ROAD ELECTRIC CABINET CAB **SCUPPER SCPR** SECONDS ELECTRIC METER EM ELECTRIC STUB UP ESU SECTION SEC SHEET SHT ΕV ELECTRIC VAULT **ELEC** SIDEWALK S/W ELECTRICAL ELEV SIGN OR STREET SIGN SGN ELEVATION END CURB RETURN ECR SOUTH EQUA SWG EQUATION SOUTHWEST GAS **EXISTING EXIST** STORM DRAIN MANHOLE F/C FACE OF CURB SQUARE **FEDERAL** FED SQUARE FEET SY FT OR FEET SQUARE YARD STD FINISHED GRADE FG STANDARD SR STATE ROUTE FIBER OPTICS FO STA FLOWLINE STATION ST FD STREET FOUND GREEN **SUBDIVISION** SUBD GUTTER TANGENT LENGTH HANDHOLE TELEPHONE HH TV HDWL **TELEVISION** HEADWALL HWY TCE HIGHWAY TEMPORARY CONSTRUCTION ESMT HIGH WATER ELEVATION HWE TEMPORARY TEMP HYDRAULIC GRADE LINE HGL TBV TO BE VERIFIED IN OR " INCH TOP OF CURB INVERT INV TOP OF WALL IRR IRRIGATION TOWNSHIP JCT JUNCTION TRAFFIC INTERCHANGE LN **TSFM** LANE TRANSFORMER LINEAR FEET TWLTL TWO-WAY LEFT-TURN LANE LEFT L / LT TYP TYPICAL LEFT-TURN LANE LTL UNKN UNKNOWN LENGTH OF CURVE VALLEY GUTTER VG VNA VEHICULAR NON-ACCESS EASEMENT MOHAVE COUNTY RECORDER VOL MARICOPA COUNTY HIGHWAY DEPARTMENT MCHD VOLUME MARICOPA ASSOCIATION OF GOVERNMENTS MAG WATER WTR / WAT WATER METER WELL WATER LINE WELL WATER VAULT/MANHOLE **WEST**

WITH

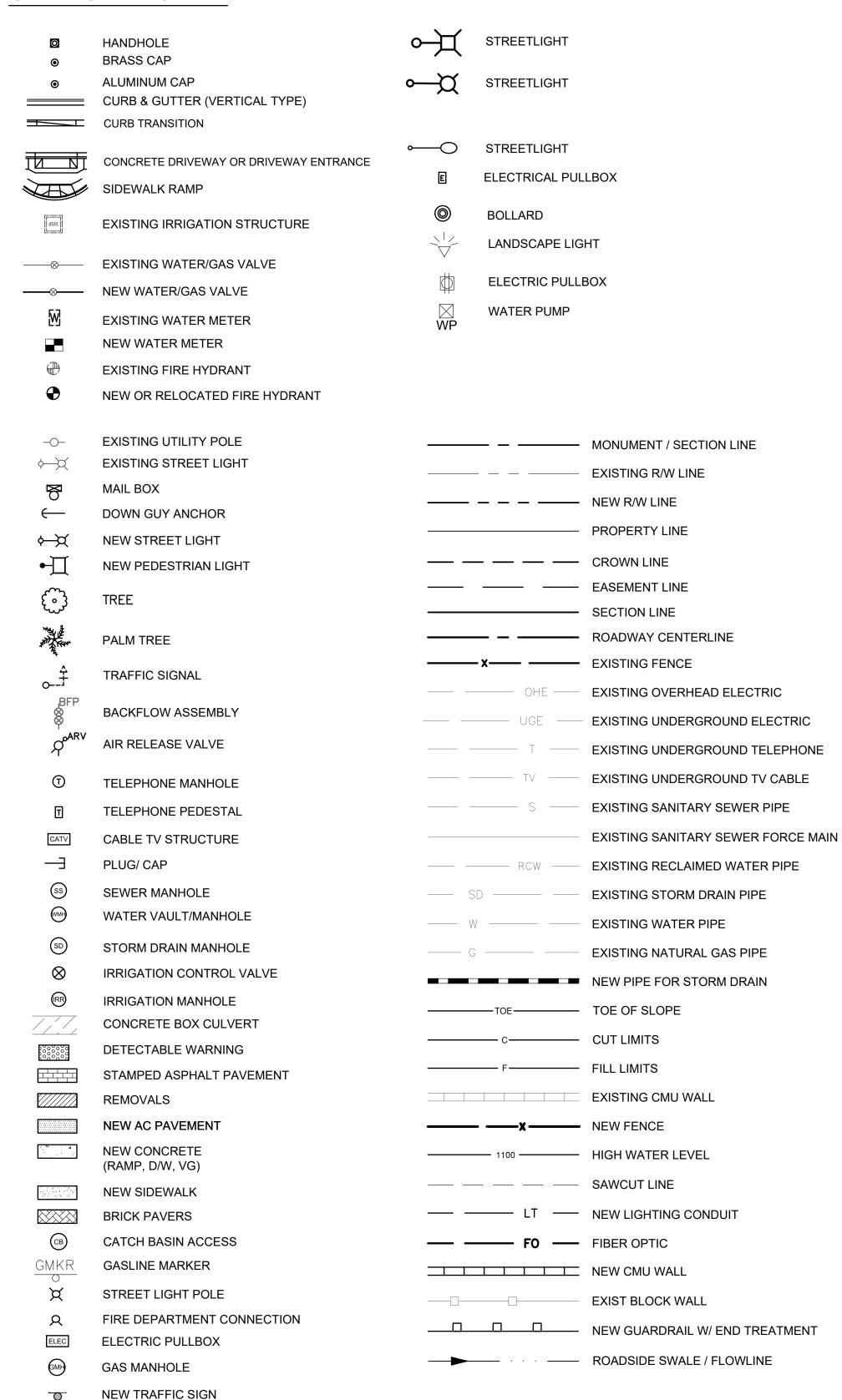
SYMBOL LEGEND

EXIST TRAFFIC SIGN

RIPRAP

STORM DRAIN PIPE

CUT OFF WALL







RITOCH-POWELL & Associates 602-263-1177 WWW.RPAENG.COM

EASTERN STREET CALUMET TO AIRWAY AVE C.O.K. PROJECT NO. ENG 21-0001 FILENAME

03-221038-IX01.dwg

city of kingman

ENGINEERING DEPARTMEN 310 NORTH 4TH STREET

> KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118



IX01 03 OF 58

EXPIRES 12/31/2023

SHEET NO.

ABBREVIATIONS/LEGEND

RITOCH-POWELL & ASSOCIATES GENERAL NOTES

- 1. THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES IT UPON THEMSELVES THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THE SAME WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
- 2. THE ESTIMATED QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY OF A DETAILED ESTIMATE BASED ON THESE PLANS, CURRENT CODES, AND SITE VISITATION.
- PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY IN QUANTITIES. NO CLAIMS SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN. ACTUAL OR RELATIVE.
- 4. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 5. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES. POWER POLES. ETC.
- THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER OR THE SURVEYOR REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE SURVEYOR UNLESS ALL SURVEY STAKES SET BY THE ENGINEER ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF. IN THE OPINION OF THE SURVEYOR. THE STAKES ARE NOT MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
- 7. THE SURVEYOR WILL MAKE FIELD AS-BUILT MEASUREMENTS OF THE WORK UPON NOTIFICATION BY THE CLIENT OR HIS REPRESENTATIVE THAT THE WORK IS COMPLETE AND READY FOR AS-BUILT SURVEY. FOR PIPE WORK, THE CONTRACTOR IS RESPONSIBLE FOR LEAVING TRENCHES OPEN SO THAT AS-BUILTS CAN BE PERFORMED TO COMPLY WITH THE CITY REQUIREMENTS. IF THE TRENCHES ARE BACKFILLED AND OBSCURED TO THE POINT THAT AS-BUILT MEASUREMENTS CANNOT BE PERFORMED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE UTILITY TRENCHES AS NECESSARY TO COMPLETE AN AS-BUILT SURVEY.
- 8. THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS. ELEVATIONS. CONDITION, OR PAVEMENT CROSS SLOPE DIFFER FROM THAT SHOWN ON THESE PLANS. RESULTING IN THE DESIGN INTENT REFLECTED ON THE PLANS NOT ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
- EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. CALL ARIZONA 811 FOR FIELD LOCATION AT (602) 263-1100. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES. WHETHER SHOWN OR NOT ON THE DRAWING. SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN KIND.
- 10. THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION. OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
- 11. ANY INSPECTION BY THE CITY, COUNTY, ENGINEER, OR OTHER JURISDICTIONAL AGENCY. SHALL NOT. IN ANY WAY. RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.

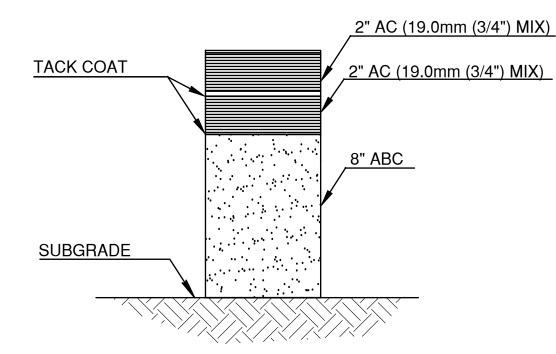
RITOCH-POWELL & ASSOCIATES GENERAL NOTES (CONT.)

- 12. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL STORM DRAIN PIPES, STORM WATER RETENTION PIPES AND DRAINAGE FACILITIES FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION. THE DEPTH OF COVER ON THE STORM DRAIN PIPE IS DESIGNED FOR FINAL GRADE. THEREFORE. EXTRA CARE SUCH AS BERMING OVER PIPES. FLAGGING OR SIGNAGE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE PIPES.
- 13. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES FOR THIS PROJECT DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
- 14. UNDERGROUND UTILITIES SHALL BE MARKED IN ACCORDANCE WITH SECTION 40-360 OF THE ARIZONA REVISED STATUTES AND LOCAL MUNICIPALITY REQUIREMENTS.
- 15. ALL STATIONS, OFFSETS, ROADWAY DIMENSIONS, & CONTROL POINTS ARE TO THE BACK OF CURB, UNLESS OTHERWISE NOTED.
- 16. THE CONTRACTOR MUST VERIFY VERTICAL CLEARANCE WITH ADJACENT AND/OR UNDERLYING UTILITIES PRIOR TO AND DURING EXCAVATION.
- 17. ALL CONSTRUCTION TO BE PERFORMED ACCORDING TO APPLICABLE COK STREETS AND SIDEWALKS DEVELOPMENT RULES AND REGULATIONS, COK UTILITY REGULATIONS, MAG STANDARD DETAILS AND MAG SPECIFICATIONS, REVISIONS THROUGH 2020.
- 18. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL HORIZONTAL AND VERTICAL CONTROLS ARE APPROXIMATE AND TO THE BEST AVAILABLE INFORMATION.
- 19. EXISTING UTILITIES AND OTHER FACILITIES HAVE BEEN PLACED ON THE PLANS FROM FIELD SURVEYS, EXISTING MAPS AND OTHER CURRENT PLANS WITHIN THE AREA OF THIS PROJECT. THE CONTRACTOR WILL DETERMINE THE EXACT LOCATION AND/OR ELEVATION OF EXISTING UTILITIES WHICH PERTAIN TO AND AFFECT THE CONSTRUCTION OF THIS PROJECT.
- 20. A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING, THE CONTRACTOR SHALL CALL FOR BLUE STAKES AT THE ARIZONA 811 CENTER (PHONE: 1800-STAKEIT) OR (602)-263-1100.
- 21. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. PERMITS FROM THE CITY OF KINGMAN SHALL BE AT NO COST TO THE CONTRACTOR.
- 22. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE FLOOD CONTROL DISTRICT AND/OR THE ENGINEER AND ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. A FLOOD PLAIN USE PERMIT WILL BE REQUIRED FROM MCFC.
- 23. THE ENGINEER WILL DETERMINE THE NUMBER AND LOCATION OF THE REQUIRED COMPACTION TESTS FOR STRUCTURAL BACKFILL.
- 24. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH MAG SPECIFICATION 401 & PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION). AND SPECIFICATIONS INCLUDED IN THIS CONTRACT.
- 25. NO JOB WILL BE CONSIDERED COMPLETED UNTIL ROADS, CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS.
- 26. PRIOR TO FINAL APPROVAL AND ACCEPTANCE OF THE WORK. THE CONTRACTOR WILL BE REQUIRED TO CLEAN ADJACENT (OFF-PROJECT) ROADWAYS USED DURING THE COURSE OF CONSTRUCTION.
- 27. CATCH BASIN CONNECTOR PIPES SHALL BE LAID ON A STRAIGHT ALIGNMENT AND SLOPE UNLESS OTHERWISE SPECIFIED. IF BREAKS IN ALIGNMENT AND SLOPE ARE NECESSARY TO MEET FIELD CONDITIONS. THE MAXIMUM DEFLECTION SHALL BE 22.5 DEGREES. CONTRACTOR SHALL PROVIDE A PIPE COLLAR PER MAG DETAIL 505 AT EACH DEFLECTION.

ESTIMATED EARTHWORK

VOLUMES LISTED BELOW WERE CALCULATED USING AVAILABLE TOPOGRAPHIC DATA AND EXISTING FIELD CONDITIONS. VOLUME INFORMATION DOES NOT REFLECT SHRINK/SWELL. CLEAR/GRUB, PRE-COMPACTION, LOSSES DUE TO OVER EXCAVATION, ETC. CONTRACTOR SHALL SATISFY HIMSELF AS TO ACTUAL FIELD CONDITIONS, AND ANTICIPATED CONDITIONS DURING THE TIME OF CONSTRUCTION, AND SHALL BASE THEIR QUANTITY TAKE OFF AND BID ACCORDINGLY.

5.604 C.Y. FILL: 457 C.Y. NET (CUT): 5,147 C.Y.



TOTAL THICKNESS = 12"

PAVEMENT STRUCTURAL SECTION NO. 1





RITOCH-POWELL & Associates 602-263-1177 WWW.RPAENG.COM

EASTERN STREET CALUMET TO AIRWAY AVE C.O.K. PROJECT NO. ENG 21-0001 FILENAME

04-221038-GN01.dwg

city of kingman

ENGINEERING DEPARTMEN

310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

EASTERN STREET

GN01 04 OF 58

EXP IRES 12/31/2023

SHEET NO.

GENERAL NOTES

CITY OF KINGMAN NOTES FOR STREET/PAVING PLANS

- ENGINEERING DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOUR BEFORE ANY CONSTRUCTION BEGINS TELEPHONE (928) 753-8195.
- ALL CONSTRUCTION TO CONFORM TO M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF KINGMAN SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS, UNLESS MODIFIED ON THE PLANS.
- COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 & CITY OF KINGMAN SUPPLEMENTS.
- THIS SET OF PLANS HAS BEEN INITIALLY REVIEWED BY THE CITY OF KINGMAN. SUCH REVIEW IS PART OF THE PROCESS THAT DEVELOPER(S)/CONTRACTOR(S) MUST GO THROUGH IN ORDER TO OBTAIN A CONSTRUCTION PERMIT. THE RESULTS OF SUCH INITIAL REVIEW SHALL NOT DICTATE THE CITY OF KINGMAN'S FINAL DETERMINATION AS TO THE ACCEPTABILITY OF THE PLANS, NOR SHALL IT PREVENT THE CITY OF KINGMAN FROM REQUIRING ERRORS AND OMISSIONS, AS FOUND ON PLANS, BE ADDRESSED BY DEVELOPER(S) /CONTRACTOR(S), WHERE SUCH ERRORS AND OMISSIONS CAUSE THE PLANS TO BE IN VIOLATION OF OR INADEQUATE UNDER APPLICABLE FEDERAL/STATE/COUNTY/LOCAL CODES, ORDINANCES, REGULATIONS, OR OTHER LAWS. THIS REVIEWED AND STAMPED SET OF PLANS MUST BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY.
- ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED. AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- EXACT POINT OF PAVEMENT MATCHING, TERMINATION AND OVERLAY, IF NECESSARY SHALL B DETERMINED IN THE FIELD BY THE CITY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE
- AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- 10. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 11. ALL EXISTING CATCH BASINS MUST BE RE-LOCATED WHEN THEY ARE SHOWN IN A NEWLY PROPOSED DRIVEWAY.
- 12. ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- 13. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UTILITY LINES ARE COMPLETED UNDER PROPOSED PAVED AREAS
- 14. THE PERMIT HOLDER SHALL ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, INCLUDING ANY STREET LIGHTS, AND SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO THE ISSUANCE OF A CONSTRUCTION PERMIT.
- 15. UTILITY FACILITIES IN CONFLICT WITH THIS WORK SHALL BE RELOCATED BY THE DEVELOPER. THIS ACTIVITY SHALL BE COORDINATED WITH THE OWNER OF THE UTILITY TO PREVENT ANY UNNECESSARY INTERRUPTION OF SERVICE
- 16. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADJUSTMENT AND PLACEMENT OF CONCRETE COLLARS. FRAMES. COVERS. AND VALVE BOXES AS NECESSARY FOR A COMPLETE JOB AS APPROVED BY THE CITY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE.
- 17. CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- 18. GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
- 19. BASE COURSE SHALL NOT BE PLACED UNTIL SUB-GRADE HAS BEEN APPROVED BY THE CITY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE.
- 20. NO JOB WILL BE CONSIDERED COMPLETED UNTIL. CURBS. PAVEMENTS AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS: AND SURVEY MONUMENTS ARE INSTALLED.
- 21. THE LOCATION OF ALL WATER VALVES, FIRE HYDRANTS AND MANHOLES MUST AT ALL TIMES DURING CONSTRUCTION BE REFERENCED BY THE CONTRACTOR AND MADE AVAILABLE TO THE CITY.
- 22. EXISTING STREET AND TRAFFIC SIGNS WILL BE MAINTAINED DURING CONSTRUCTION AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE CITY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE.
- 23. CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL ÒFFSITE IMPROVEMENTS ARE COMPLETED.
- 24. TREES AND SHRUBBERY IN THE RIGHT-OF-WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE ENGINEERING INSPECTOR.
- 25. ALL HDPE STORM DRAIN PIPE SHALL BE MANUFACTURED. DESIGNED AND INSTALLED IN ACCORDANCE WITH AASHTO M252, AASHTO M294, MAG AND THESE SPECIAL PROVISIONS.
- 26. ALL HDPE STORM DRAIN PIPE SHALL BE TYPE 'S' CORRUGATED, WITH WATERTIGHT JOINTS.
- 27. AT A MINIMUM, ALL HDPE STORM DRAIN PIPE JOINTS SHALL MEET THE ASTM D-3212 WATERTIGHT REQUIREMENT OF 10.8 PSI (25 COLUMN FEET OF WATER HEAD).
- 28. THE CONTRACTOR SHALL PROVIDE A COPY OF AN ACCEPTED INDEPENDENT 3RD PARTY LAB CERTIFICATION THAT ALL THE PIPE AND JOINTS TO BE USED ON THE PROJECT MEET THE ASTM D-3212 WATERTIGHT STANDARD.
- 29. ALL HDPE PIPE CONNECTIONS TO MANHOLES SHALL MEET ASTM C-923 REQUIREMENTS.

CITY OF KINGMAN NOTES FOR SEWER PLANS

- ENGINEERING DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS TELEPHONE (928) 753-8195.
- 2. ANY SEWER MAIN 15" IN SIZE OR 12' IN DEPTH, OR GREATER, REQUIRES 5' MANHOLES.
- 3. ALL CONSTRUCTION TO CONFORM TO M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF KINGMAN SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS. UNLESS MODIFIED ON THE PLANS.
- 4. COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 & CITY OF KINGMAN SUPPLEMENTS.
- 5. NEW SEWER LINES ARE TO BE BUILT IN STANDARD UTILITY LOCATIONS PER CITY OF KINGMAN DETAIL 120.
- THIS SET OF PLANS HAS BEEN INITIALLY REVIEWED BY THE CITY OF KINGMAN. SUCH REVIEW IS PART OF THE PROCESS THAT DEVELOPER(S)/CONTRACTOR(S) MUST GO THROUGH IN ORDER TO OBTAIN A CONSTRUCTION PERMIT. THE RESULTS OF SUCH INITIAL REVIEW SHALL NOT DICTATE THE CITY OF KINGMAN'S FINAL DETERMINATION AS TO THE ACCEPTABILITY OF THE PLANS, NOR SHALL IT PREVENT THE CITY OF KINGMAN FROM REQUIRING ERRORS AND OMISSIONS, AS FOUND ON PLANS, BE ADDRESSED BY DEVELOPER(S) /CONTRACTOR(S), WHERE SUCH ERRORS AND OMISSIONS CAUSE THE PLANS TO BE IN VIOLATION OF OR INADEQUATE UNDER APPLICABLE FEDERAL/STATE/COUNTY/LOCAL CODES, ORDINANCES, REGULATIONS, OR OTHER LAWS. THIS REVIEWED AND STAMPED SET OF PLANS MUST BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- ALL LINES MUST BE TESTED FOR UNIFORM SLOPE BY LAMP LIGHTING OR REMOTE CAMERA BEFORE THEY ARE ACCEPTED AS COMPLETE. TESTING METHOD MUST BE APPROVED IN ADVANCE BY THE ENGINEERING DEPARTMENT. THE RESULTS SHALL BE RECORDED AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL
- 8. DEFLECTION TESTING FOR THE ENTIRE LENGTH OF PVC SEWER LINES SHALL BE PERFORMED IN ACCORDANCE WITH MAG STANDARD SPECIFICATION 615.11(C) AND AAC R18-9-E301(D)(2)(I)
- 9. ALL MANHOLES SHALL BE TESTED USING ONE OF THE FOLLOWING PROCEDURES:
- A. WATER TESTING

IN ACCORDANCE WITH AAC R-18-9-E301(D)(3)(E), THE ENTIRE MANHOLE SHALL BE FILLED WITH WATER AND EXFILTRATION SHALL BE LIMITED TO 0.0034 OF THE TOTAL MANHOLE VOLUME IN ONE HOUR.

- B. VACUUM TESTING
- IN ACCORDANCE WITH AAC R-18-9-E301(D)(3)(E), MANHOLES SHALL BE TESTED IN ACCORDANCE WITH ASTM C1244-02, "STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY NEGATIVE AIR PRESSURE (VACUUM) TEST PRIOR TO BACKFILL".
- 10. THE CONTRACTOR SHALL PERFORM MANHOLE TESTING AFTER INSTALLATION OF THE MANHOLE CONE TO VERIFY WATER TIGHTNESS OF THE MANHOLE FROM THE TOP CONE DOWN, UPON SATISFACTORY TEST RESULTS. THE CONTRACTOR SHALL INSTALL THE MANHOLE RINGS AND SPACERS, COMPLETE WITH THE JOINTS AND SEAL THE MANHOLE TO A WATER TIGHT CONDITION.
- 11. THE ENTIRE SEWER LINE SHALL BE TESTED FOR TIGHTNESS FOR EACH PIPE MATERIAL IN ACCORDANCE WITH AAC R18-9- E301(D)(2)(J).
- 12. ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 13. NEW MANHOLES ARE TO BE BUILT WITHOUT STEPS.
- 14. A SIX (6) FOOT MINIMUM HORIZONTAL SEPARATION FROM ANY UNDERGROUND UTILITY SHALL BE PROVIDED FOR SEWER MAINS. AND WATER MAINS. THE MINIMUM HORIZONTAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN. OR WATER MAIN TO OUTSIDE OF UNDERGROUND UTILITY.
- 15. A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM ANY DRY UNDERGROUND UTILITY CROSSING SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO OUTSIDE OF DRY UNDERGROUND UTILITY.
- 16. A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN ANY WATER MAIN OR STORM DRAIN CROSSING A SEWER MAIN. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN TO OUTSIDE OF WATER MAIN OR STORM DRAIN MAIN. SEE CITY OF KINGMAN STANDARD DETAIL 404 FOR ADDITIONAL INFORMATION AND/OR PROVISIONS FOR CLEARANCE.
- 17. EXCEPTIONS OR DEVIATIONS FROM THE ABOVE MINIMUM CLEARANCES MUST BE APPROVED AND SHOWN ON THE APPROVED WATER AND SEWER PLANS. WHEN UTILITY CONFLICTS ARE FOUND DURING CONSTRUCTION, ALL CHANGES AND REVISIONS MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- 18. ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

- 19. ANY SEWER LINES THAT ARE INSTALLED WITH LESS THAN .004 FT/FT SLOPE MUST BE INSTALLED USING A LASER.
- 20. WHEN DIP SEWER PIPE IS USED, AN EPOXY LINING IS REQUIRED AS APPROVED BY THE CITY ENGINEER.
- 21. CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- 22. PLAN APPROVAL IS VALID FOR ONE YEAR.

CITY OF KINGMAN NOTES FOR WATER PLANS

- ENGINEERING DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS TELEPHONE (928) 753-8195.
- 2. ALL WATER VALVE BOXES SHALL BE PER CITY OF KINGMAN DETAIL 391-1 & 391-2.
- ALL CONSTRUCTION TO CONFORM TO M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF KINGMAN SUPPLEMENT TO SPECIFICATIONS AND DETAILS. UNLESS MODIFIED ON THE PLANS.
- COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 & CITY OF KINGMAN SUPPLEMENTS.
- NEW WATER LINES ARE TO BE BUILT IN STANDARD UTILITY LOCATIONS PER CITY OF KINGMAN DETAIL 120.
- THIS SET OF PLANS HAS BEEN INITIALLY REVIEWED BY THE CITY OF KINGMAN. SUCH REVIEW IS PART OF THE PROCESS THAT DEVELOPER(S)/CONTRACTOR(S) MUST GO THROUGH IN ORDER TO OBTAIN A CONSTRUCTION PERMIT. THE RESULTS OF SUCH INITIAL REVIEW SHALL NOT DICTATE THE CITY OF KINGMAN'S FINAL DETERMINATION AS TO THE ACCEPTABILITY OF THE PLANS, NOR SHALL IT PREVENT THE CITY OF KINGMAN FROM REQUIRING ERRORS AND OMISSIONS, AS FOUND ON PLANS BE ADDRESSED BY DEVELOPER(S) /CONTRACTOR(S), WHERE SUCH ERRORS AND OMISSIONS CAUSE THE PLANS TO BE IN VIOLATION OF OR INADEQUATE UNDER APPLICABLE FEDERAL/STATE/COUNTY/LOCAL CODES, ORDINANCES, REGULATIONS, OR OTHER LAWS. THIS REVIEWED AND STAMPED SET OF PLANS MUST BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- PIPE DEFLECTION SHALL NOT EXCEED ONE-HALF (1/2) THE MANUFACTURERS' RECOMMENDATIONS.
- 8. ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- 9. THE CONTRACTOR IS TO NOTIFY THE PUBLIC THAT WILL BE AFFECTED BY ANY SHUTDOWNS A MINIMUM OF 48 HOURS IN ADVANCE.
- 10. A SIX (6) FOOT MINIMUM HORIZONTAL SEPARATION FROM ANY UNDERGROUND UTILITY SHALL BE PROVIDED FOR SEWER MAINS AND WATER MAINS. THE MINIMUM HORIZONTAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN OR WATER MAIN TO OUTSIDE OF UNDERGROUND UTILITY.
- 11. A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM ANY DRY UNDERGROUND UTILITY CROSSING SHALL BE PROVIDED FOR SEWER MAINS. SEWER SERVICES, WATER MAINS, AND WATER SERVICES, THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN. SEWER SERVICE. WATER MAIN. OR WATER SERVICE TO OUTSIDE OF DRY UNDERGROUND UTILITY.
- 12. A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEÈŃ ANY SEWER MAIN AND STORM DRAIN CROSSING A WATER MAIN. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER MAIN OR STORM DRAIN MAIN. SEE CITY OF KINGMAN STANDARD DETAIL 404 FOR ADDITIONAL INFORMATION AND/OR PROVISIONS FOR CLEARANCE.
- 13. EXCEPTIONS OR DEVIATIONS FROM THE ABOVE MINIMUM CLEARANCES MUST BE APPROVED AND SHOWN ON THE APPROVED WATER AND SEWER PLANS. WHEN UTILITY CONFLICTS ARE FOUND DURING CONSTRUCTION, ALL CHANGES AND REVISIONS MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- 14. ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- 15. WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO THE WATER MAIN. WATER SERVICES AT THE END OF CUL-DE SACS MAY VARY AS NECESSARY, BUT WILL BE APPROVED ON A CASE BY CASE BASIS.
- 16. ALL SERVICES SHALL RUN IN A STRAIGHT LINE FROM THE WATER MAIN TO THE METER BOX.
- 17. NEITHER WATER SERVICE METER BOX NOR ANY PORTION OF A WATER SERVICE SHALL BE INSTALLED UNDER AN EXISTING OR PROPOSED DRIVEWAY OR SIDEWALK RAMP.
- 18. CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- 19. PLAN APPROVAL IS VALID FOR ONE YEAR.



& Associates

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602-263-1177

05-221038-GN02.dwg



C.O.K. PROJECT NO. EASTERN STREET ENG 21-0001 CALUMET TO AIRWAY AVE FILENAME

city of kingman

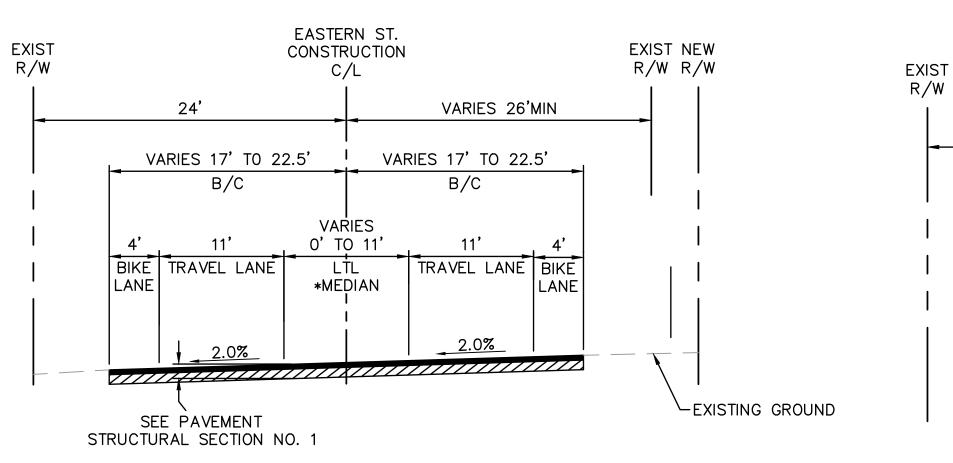
ENGINEERING DEPARTMEN 310 NORTH 4TH STREET

KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118



GENERAL NOTES

GN02 05 OF 58



TYPICAL PAVED ROADWAY SECTION - EASTERN STREET

STA 75+00.61 TO STA 76+57.88

29' VARIES 31' TO 21' 21.5 23.5 B/C TRAVEL LANE BIKE BIKE TRAVEL LANE TWLTL LANE SEE PAVEMENT STRUCTURAL SECTION NO. 1 TYPICAL PAVED ROADWAY SECTION - EASTERN STREET ∽NEW CURB & GUTTER (TYP) STA 77+40.55 TO STA 83+91.35

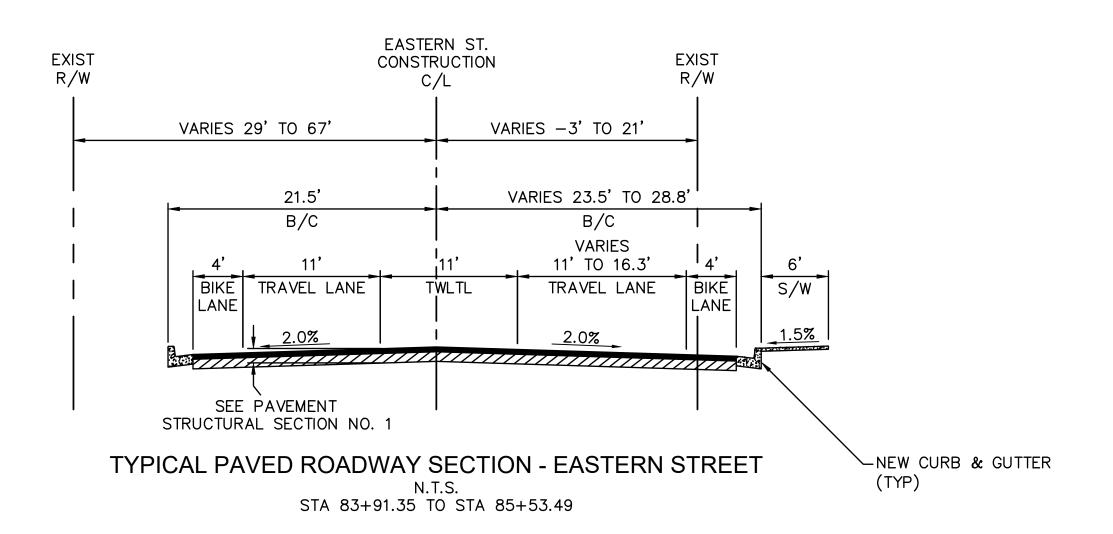
EXIST

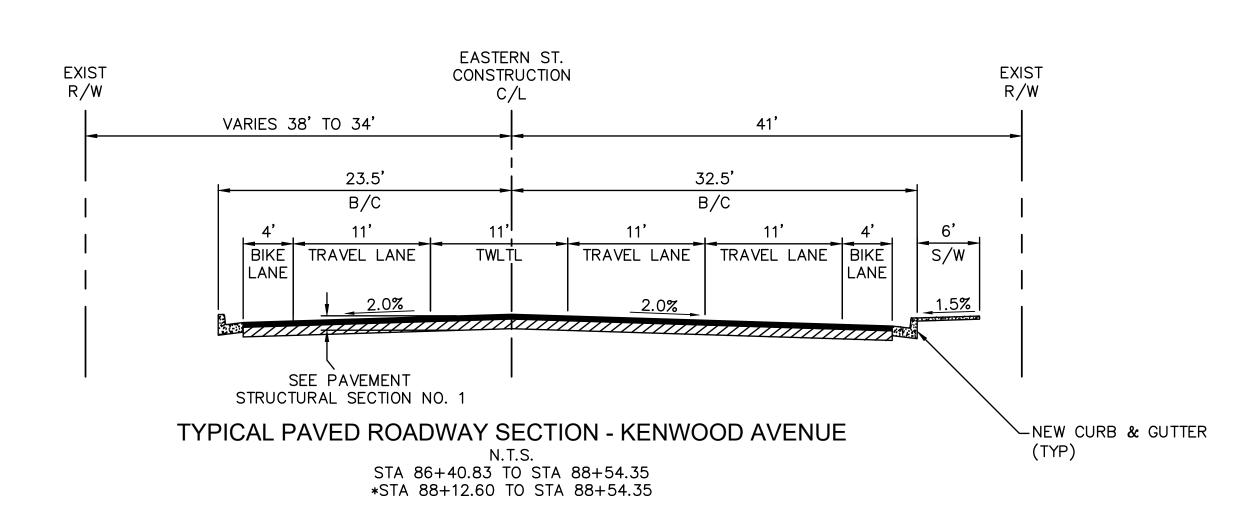
R/W

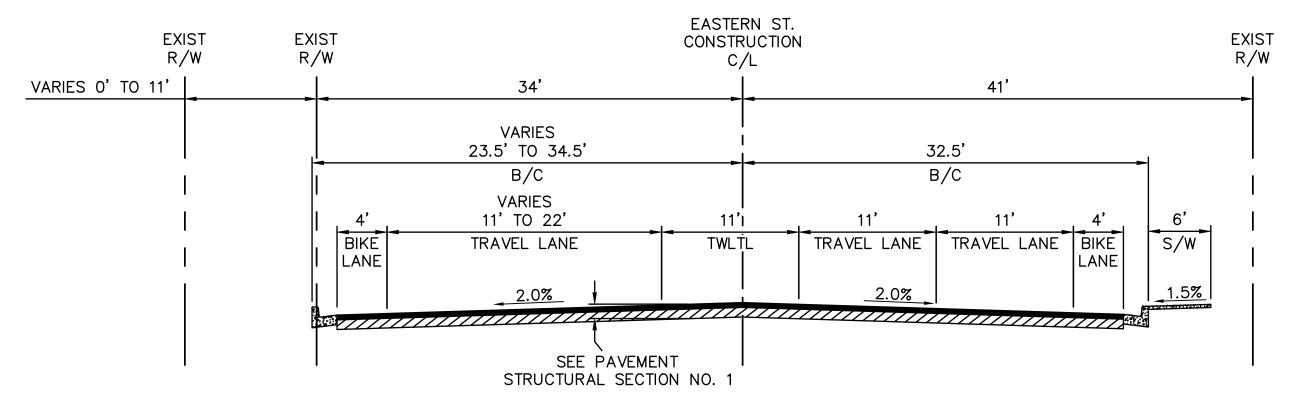
EASTERN ST.

CONSTRUCTION

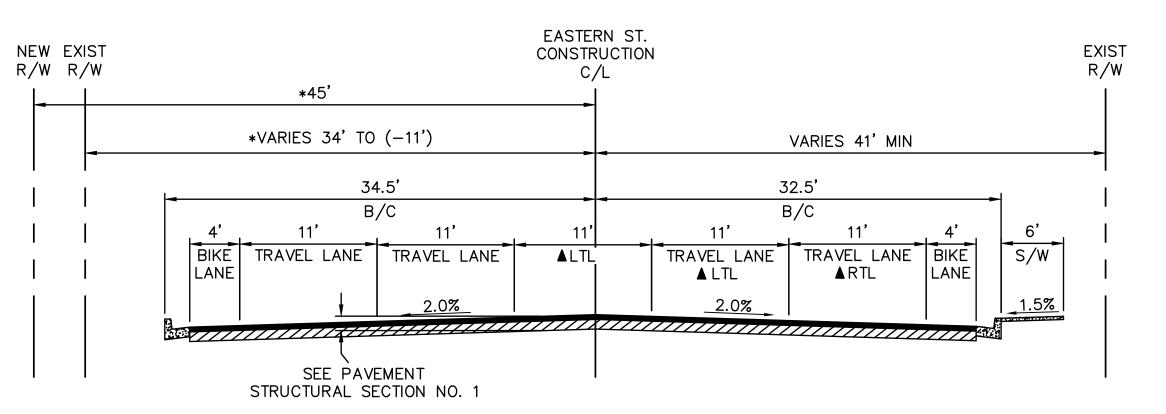
R/W







TYPICAL PAVED ROADWAY SECTION - KENWOOD AVENUE STA 88+54.35 TO STA 90+34.35



TYPICAL PAVED ROADWAY SECTION - KENWOOD AVENUE

N.T.S. *STA 90+34.35 TO STA 94+77.24 ▲STA 94+77.24 TO STA 96+66.78 STA 93+95.00 TO STA 96+66.78



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|RPA

EASTERN STREET CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO. ENG 21-0001 **FILENAME**

06-221038-TX01.dwg

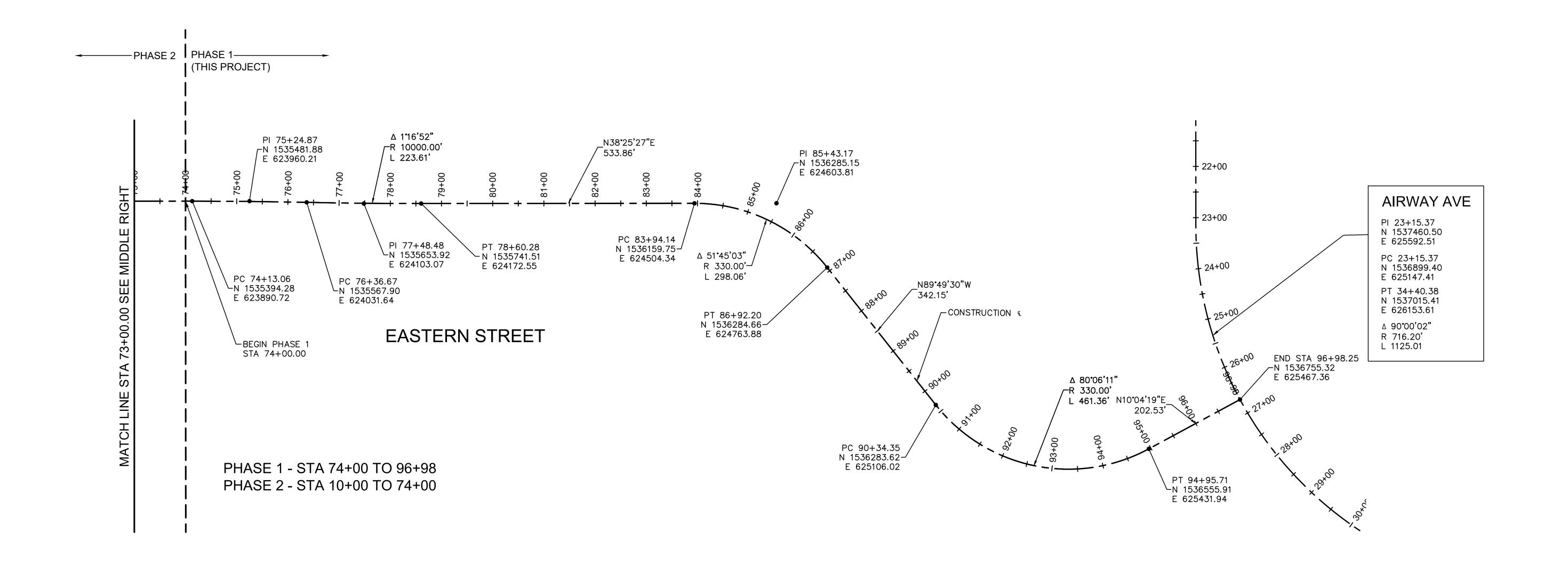
City of Kingman



EASTERN STREET

TYPICAL SECTIONS

SHEET NO. **TX01** 06 OF 58







EASTERN STREET CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO. ENG 21-0001 FILENAME

07-221038-GC01.dwg

CITY OF KINGMAN

ENGINEERING DEPARTMENT

KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

EASTERN STREET

GEOMETRIC CONTROL

SHEET NO. GC01 07 OF 58

BASIS OF BEARING

103

104

- SW CORNER

NW CORNER

W/RLS 15341

ELEV= 3459.00

105

106

— W 1/4 CORNER

FND. 2" BCF

W/RLS 23960

ELEV= 3507.18

107

108

— SW CORNER

ELEV= 3670.43

SEC. 18, T21N, R16W,

FND. TAG IN ROCK W/RLS 15341

- FND. ``T" POST

ELEV= 3550.63

SEC. 18, T21N, R16W,

SEC. 7, T21N, R16W,

SEC. 18, T21N, R16W,

FND. 3" BCF IN CONC.

- FND. 3" BCF IN CONC.

W/RLS 15341

ELEV= 3474.61

- FND. 3" BCF IN CONC

W/RLS 23960 ELEV= 3452.14

THE BASIS OF BEARING FOR THIS PROJECT IS S89°54'25"E FOR THE NORTH LINE FOR THE NORTH LINE OF THE SOUTHWEST QUARTER OF SECTION 8, T21N, R16W OF THE GILA & SALT RIVER MERIDIAN, MOHAVE COUNTY, ARIZONA CALCULATED FROM COORDINATE VALUES SHOWN ON THE RETRACEMENT AND DEPENDENT RESURVEY BY TRIMBLE GPS OF SECTIONS 1-23 AND 26-35 OF T.21 N., R.16 W., G.&S.R.M., MOHAVE COUNTY, ARIZONA. THIS SURVEY WAS PERFORMED BY THE CITY OF KINGMAN SURVEYING DEPARTMENT, SIGNED & SEALED BY JACK M. KESSLER PLS#8904 ON 10/28/03 AND RECORDED IN THE MOHAVE COUNTY RECORDER'S OFFICE AS RECEPTION NUMBER 2003-92693.

CONTROL INFORMATION

ALL BEARINGS ARE GROUND/GRID BEARINGS

ALL DISTANCES ARE GROUND DISTANCES (INTERNATIONAL FEET)

COORDINATES SHOWN ARE BASED ON NAD83 ARIZONA STATE PLANE PROJECTION SYSTEM - WEST ZONE - GROUND COORDINATES (INTERNATIONAL FEET)

ELEVATIONS SHOWN AE BASED ON NAVD88

111

109

ELEV= 3538.52

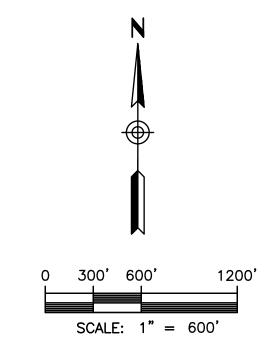
N89°54'15"W

5899.04'

5888.05'

N89°55'03"W

GEOMETRIC CONTROL FOR SECTIONS 7, 8, 17 & 18, TOWNSHIP 21 NORTH, RANGE 16 WEST OF THE GILA AND SALT RIVER MERIDIAN, CITY OF KINGMAN, MOHAVE COUNTY, ARIZONA



TABLE

POINT COC	RDINATE DA	TA	PRIMARY HORIZO
PT. NORTHING	EASTING	ELEV	BENCHMARK #1
100 1537682.08	613476.00	3426.39	3 INCH BRASS C
101 1536706.25	613475.41	3434.31	SOUTHEAST CORI
102 1535036.42			NAVD88 EL = 39
103 1534060.37	613487.16	3452.14	N 1532373.5519'
104 1532390.79	613491.65	3459.00	E 622033.7759'
105 1531417.52	613494.29	3474.61	#565
106 1529751.22	613496.73	3507.18	"
107 1528795.01	613498.13	3550.63	050011010111011
108 1527103.22	613504.73	3670.43	SECONDARY HOR
109 1527094.77			VERTICAL CONTR
110 1529737.03			BENCHMARK #3
111 1532380.93	619390.69	3476.47	GLO BRASS CAP
112 1535021.16		_	QUARTER CORNE
113 1537663.16			
114 1537657.02			N 1529730.6415
115 1535014.34			E 622033.8721'
116 1532373.55			#566
117 1529730.64			"
118 1527087.54			BENCHMARK #4
119 1527084.77		3622.38	2 INCH ALUMINU
120 1529724.01		_	WEST QUARTER
121 1532369.26			NAVD88 EL=346
122 1535011.60			N 4575044 7400
123 1537621.69			
124 1537648.36			E 622040.3899'
125 1535008.86			#567
126 1532360.68			
127 1259717.35			
128 1527074.73	<u> 627304.45</u>	3667.73	

AIRWAY AVE. SEC. 8 SEC. 7 T.21 N. T.21 N. R.16 W. R.16 W. AIRFIELD AVE. WESTERN SEC. 18 ASTEI SEC. 17 SAG T.21 N. T.21 N. R.16 W. R.16 W.

VICINITY MAP

BENCHMARKS

PRIMARY HORIZONTAL CONTROL: PRIMARY VERTICAL CONTROL: BENCHMARK #2 BENCHMARK #1 3 INCH BRASS CAP FLUSH IN CONC. NGS BENCHMARK DESIGNATION D 525 4 SOUTHEAST CORNER OF SEC. 7 IN BRASS CAP FLUSH IN CONC SOUTHWEST CORNER OF INTERSECTION NAVD88 EL = 3508.33OF EASTERN ST. WITH LOUISE AVE. N 1532373.5519' NAVD88 EL = 3564.67E 622033.7759' N 1528314.7549' E 622013.2833'

SOUTHERN

SECONDARY HORIZONTAL AND VERTICAL CONTROL: QUARTER CORNER OF SEC. 18

NAVD88 EL=3541.82' N 1529730.6415' E 622033.8721

BENCHMARK #4 2 INCH ALUMÏNUM CAP IN CONC. WEST QUARTER CORNER OF SEC. 8 NAVD88 EL=3467.20' N 1535014.3409'

BENCHMARK #3

GLO BRASS CAP IN HANDHOLE EAST 3 INCH GLO BRASS CAP IN CONC. NORTH QUARTER CORNER OF SEC. 8 NAVD88 EL=3440.03' N 1537650.8357' E 624688.3788'

AVE.

BENCHMARK #6 2 INCH ALUMINUM CAP FLUSH IN CONC. SOUTH QUARTER CORNER OF SEC. 8 NAVD88 EL=3526.72' N 1532369.2597' E 624674.1332'

PREPARED FOR

CITY OF KINGMAN **ENGINEERING DEPARTMENT** 310 N. 4TH STREET KINGMAN, ARIZONA 86401 PHONE: 928.753.8134 CONTACT: ERIC SPARKMAN

PREPARED BY

RITOCH-POWELL & ASSOCIATES 1001 N CENTRAL AVENUE SUITE 900 PHOENIX, ARIZONA 85004 PHONE: 602.263.1177 CONTACT: TROY A. RAY

CERTIFICATION

I, TROY A. RAY, HEREBY CERTIFY THAT THIS DRAWING AND THE FIELD SURVEYS IT WAS BASED ON WERE PERFORMED AND PREPARED UNDER MY SUPERVISION DURING THE MONTH OF JUNE 2017 AND OCTOBER 2016 RESPECTIVELY. THE SURVEY AND THE MONUMENTS IT IS BASED ON ARE CORRECT AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.







RITOCH-POWELL & Associates 602-263-1177 WWW.RPAENG.COM

C.O.K. PROJECT NO.

ENG 21-0001

FILENAME

08-221038-GC02.dwg

city of kingman

EASTERN STREET

CALUMET TO AIRWAY AVE

ENGINEERING DEPARTMEN

310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

EASTERN STREET BENCHMARK

TROY A. RAY EXPIRES 6/30/2020 SHEET NO.

CONTROL SHEET

THE GRID TO GROUND SCALE FACTOR UTILIZED FOR THIS PROJECT IS 1.00023215388 BENCHMARK #5 N89°49'01"W N89°52'02"W S89°51'57"E 5922.55' 2647.42' 2641.45' 114 113 123 **NW CORNER** N 1/4 CORNER - NW CORNER SEC. 8, T21N, R16W, N 1/4 CORNER SEC. 8, T21N, R16W, NE CORNER SEC. 7, T21N, R16W, SEC. 8, T21N, R16W, FND. 3" BCF SEC. 7, T21N, R16W, FND. 3" GLO BC FND. 3" BCF IN CONC. FND. 3" BCF ELEV= 3440.03 IN CONC. ELEV= 3413.13 IN CONC. ELEV= 3426.39 ELEV= 3424.05 101 - FND. 3" BCF IN CONC 115 ELEV= 3434.31 W 1/4 CORNER 102 122 SEC. 8, T21N, R16W, E 1/4 CORNER CENTER OF - W 1/4 CORNER CENTER OF SEC. 7, T21N, R16W, SEC. 7, T21N, R16W, SEC. 7, T21N, R16W SEC. 8, T21N, R16W, FND. 2" ACF IN CONC. FND. 3" ADOT ACF CALCULATED POSITION CALCULATED POSITION W/ RLS 8904 (NOT SEARCHED FOR) IN CONC. (NOT SEARCHED FOR) ELEV= 3467.20 ELEV= 3444.65

2645.30' 2640.87' 2640.56' — BENCHMARK #4 116 SW CORNER SEC. 7, T21N, R16W, 126 121 SE CORNER SE CORNER SEC. 8, T21N, R16W, S 1/4 CORNER SEC. 8, T21N, R16W, NW CORNER SEC. 8, T21N, R16W, NE CORNER SEC. 17. T21N. R16W. N 1/4 CORNER SEC. 17, T21N, R16W,

BENCHMARK #1

S89°56'26"E

SEC. 17, T21N, R16W,

FND. 2" ACF IN CONC.

ELEV= 3526.71

(BASIS OF BEARINGS)

S89°54'25"E

2640.36'

120

S89°51'21"E

2637 64'

CENTER OF

SEC. 17, T21N, R16W,

CALCULATED POSITION

(NOT SEARCHED FOR)

S 1/4 CORNER SEC. 7, T21N, R16W, N 1/4 CORNER NE CORNER SEC. 18, T21N, R16W SEC. 18, T21N, R16W FND. 2" ACF IN CONC FND. 3" BCF W/RLS 1534 IN CONC. ELEV= 3476.47 ELEV= 3508.33 N89°50'24"W

N89°51'08"W

2643.10'

W 1/4 CORNER CENTER OF SEC. 17, T21N, R16W, SEC. 18, T21N, R16W, E 1/4 CORNER CALCULATED POSITION SEC. 18, T21N, R16W (NOT SEARCHED FOR) FND. GLO BCHH ELEV= 3541.82

> N89°51'43"W 2649.12'

118 SW CORNER SE CORNER SE CORNER SEC. 18, T21N, R16W, SEC. 17, T21N, R16W, FND. 2" BCF IN CONC. FND. 3" BCF IN CONC W/RLS 23960 W/RLS 23960 ELEV= 3579.61

N89°50'36"W

119 S 1/4 CORNER SEC. 17, T21N, R16W, FND. 3" GLO BC IN CONC. ELEV= 3622.38 N89°56'24"W

128 SE CORNER SEC. 17, T21N, R16W, FND. IRON PIPE ELEV= 3667.73 N89°46'57"W

RLS

SEC.

ACF ALUMINUM CAP FLUSH

2633.26' --- BENCHMARK #3 BENCHMARK #2 SEC. 17, T21N, R16W,

FOUND MONUMENT AS NOTED ALUMINUM CAP FLUSH ARIZONA DEPARTMENT OF TRANSPORTATION BRASS CAP FLUSH

S89°56'46"E

124

125

E 1/4 CORNER

SEC. 8, T21N, R16W

FND. 5/8" REBAR W/CAP RLS 23960

(BENT WEST)

N89°48'50"W

2641.93'

127

E 1/4 CORNER

FND. 2" GLO BC

ELEV= 3606.72

IN CONC.

S89°51'21"E

2642.29'

2644.35'

SEC. 17, T21N, R16W

---- BENCHMARK #6

ELEV= 3550.12

FND. 2" GLO BCF

IN CONC.

S89°56'26"E

ELEV= 3502.46

NE CORNER

FND. BCF

W/RLS 23960

ELEV= 3458.92

SEC. 8, T21N, R16W,

BRASS CAP IN HANDHOLE CONCRETE

LEGEND

SECTION CORNER

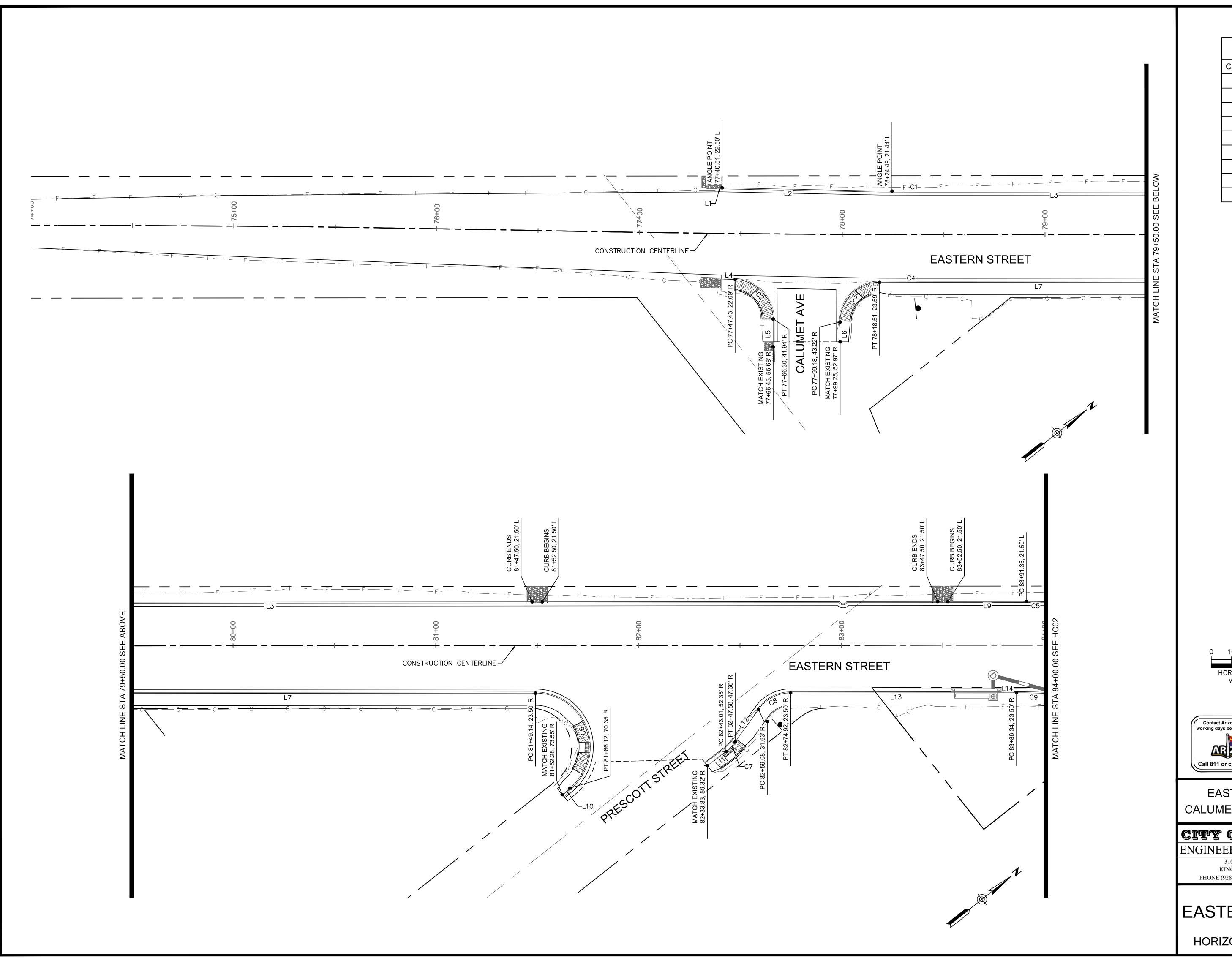
QUARTER SECTION CORNER

PROJECT BENCHMARKS AS NOTED

GOVERNMENT LAND OFFICE

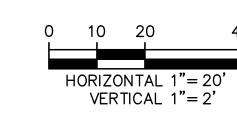
REGISTERED LAND SURVEYOR

GC02 08 OF 58



	CURVE	TABLE	
CURVE	DELTA	RADIUS	LENGTH
C1	0°14'15"	9978.50'	41.34'
C2	87°41'30"	19.50'	29.84'
С3	90°20'38"	19.50'	30.75'
C4	0°14'20"	10023.50'	41.79'
C5	21°08'00"	362.50'	133.71'
C6	140°09'18"	26.50'	64.82'
C7	17°07'54"	22.00'	6.58'
C8	54 ° 20'33"	54°20'33" 19.50'	
C9	22°30'28"	294.00'	115.49'

	LINE TABI	LE
LINE	BEARING	LENGTH
L1	N38°02'41"E	2.54'
L2	S39*37'09"W	78.14'
L3	S38°25'27"W	287.22
L4	N40°39'52"E	6.90'
L5	N51°38'39"W	13.72'
L6	N51°40'51"W	9.84'
L7	S38°25'27"W	288.85'
L9	S38°25'27"W	38.85'
L10	S4°29'37"E	5.01'
L11	S1°12'47"W	11.53'
L12	S15°55'06"E	19.72'
L13	S38°25'27"W	91.87'
L14	S38°25'27"W	9.55'







EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO. ENG 21-0001

IET TO AIRWAY AVE

FILENAME
09-221038-HC01.dwg

CITY OF KINGMANENGINEERING DEPARTMENT

310 NORTH 4TH STREET

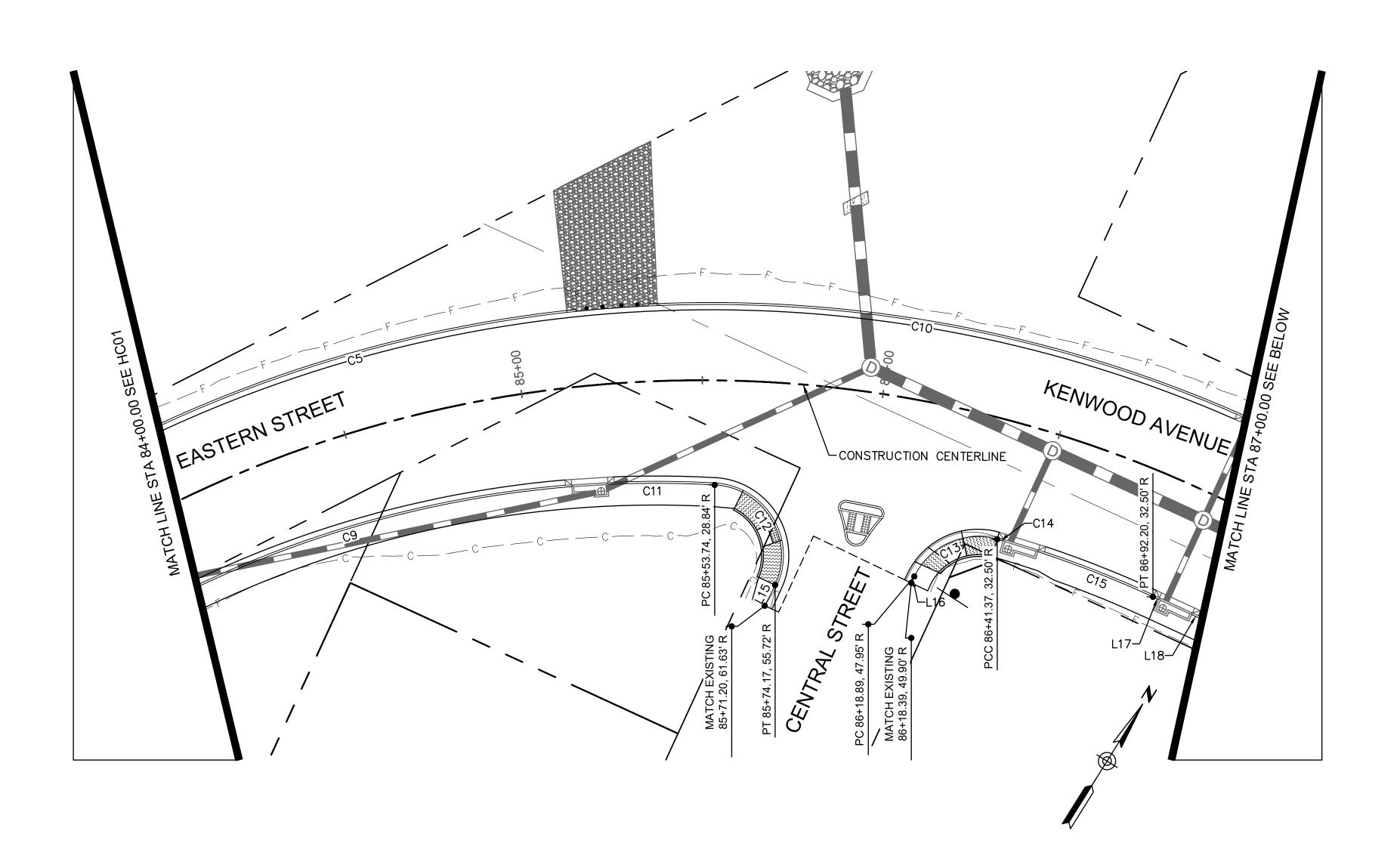
KINGMAN, ARIZONA 86401

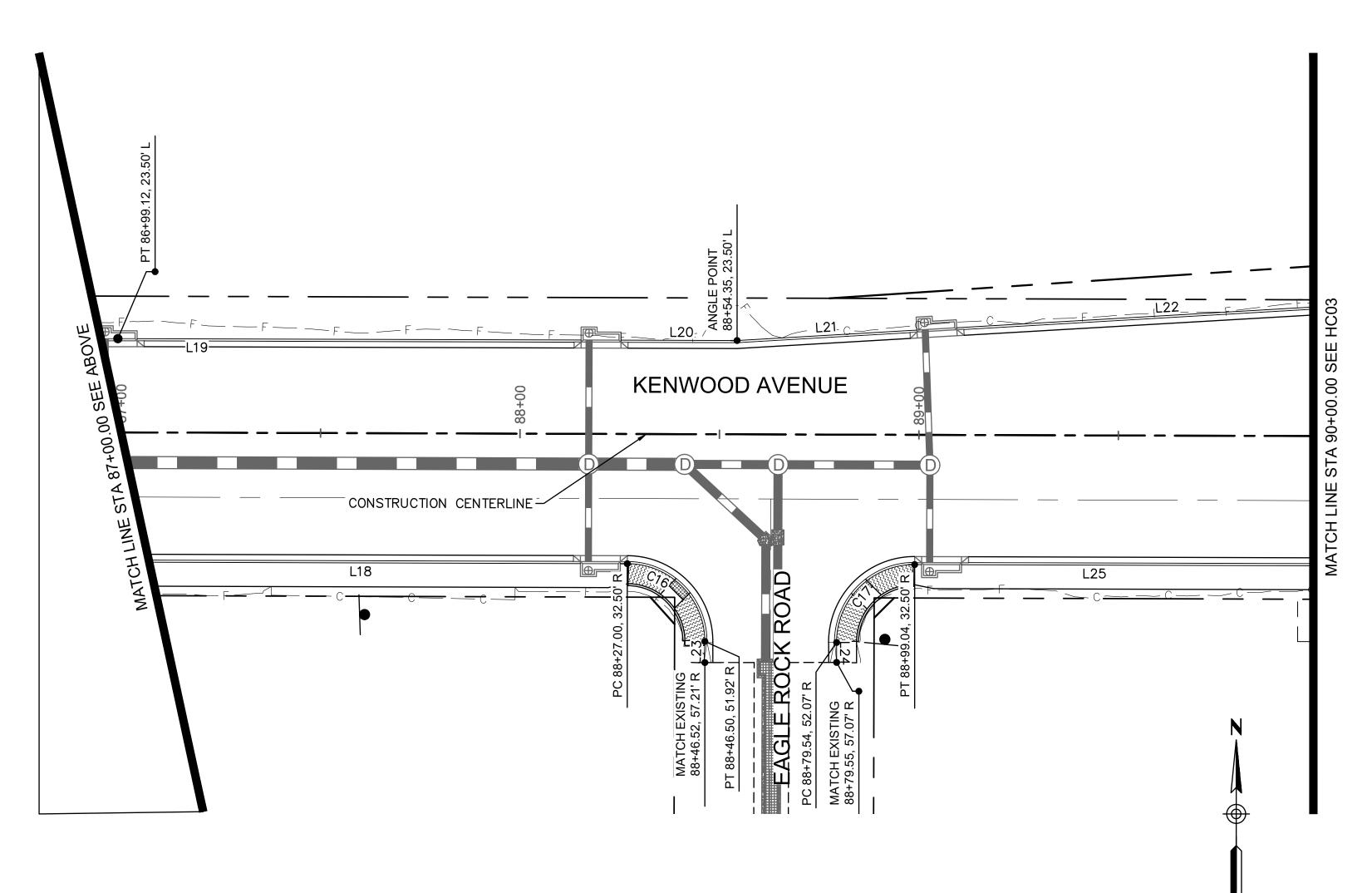
PHONE (928) 753-8122 FAX (928) 753-8118



HORIZONTAL CONTROL

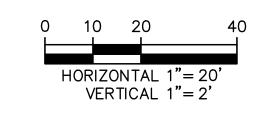
HC01 09 OF 58





	CURVE TABLE											
CURVE	DELTA	RADIUS	LENGTH									
C5	21°08'00"	362.50'	133.71'									
С9	22°30'28"	294.00'	115.49'									
C10	26 ° 38'01"	362.50'	168.51'									
C11	5*44'00"	294.00'	29.42'									
C12	111°29'14"	19.50'	37.94'									
C13	80°25'09"	19.50'	27.37'									
C14	0°19'04"	297.50'	1.65'									
C15	6°34'18"	297.50'	34.12'									
C16	89°45'18"	19.50'	30.55									
C17	90°12'54"	19.50'	30.70'									

	LINE TABI	LE
LINE	BEARING	LENGTH
L15	N2°23'31"E	5.00'
L16	N0°56'25"E	1.86'
L17	N89*49'30"W	1.75'
L18	N89*49'30"W	111.29'
L19	N89°49'30"W	111.30'
L20	S89°49'30"E	29.11'
L21	N86°40'40"E	45.15'
L22	N86°40'40"E	125.18'
L23	N2°13'14"E	5.00'
L24	S0°02'24"E	5.00'
L25	N89*49'30"W	123.57'







& Associates 602-263-1177 WWW.RPAENG.COM

EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO.
ENG 21-0001

FILENAME

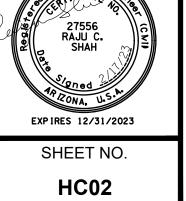
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CITY OF KINGMANENGINEERING DEPARTMENT

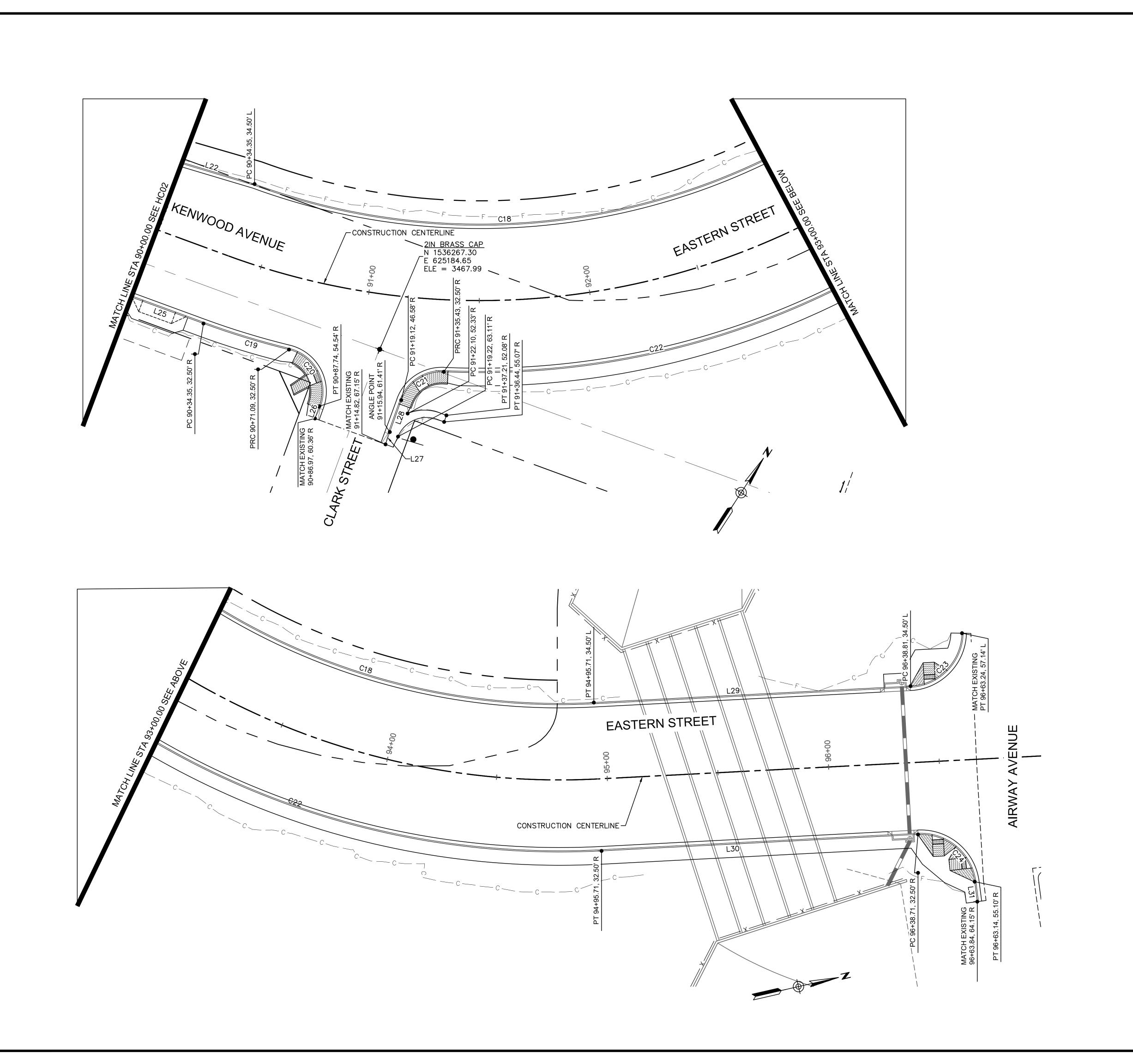
310 NORTH 4TH STREET
KINGMAN, ARIZONA 86401
PHONE (928) 753-8122 FAX (928) 753-8118

EASTERN STREET

HORIZONTAL CONTROL

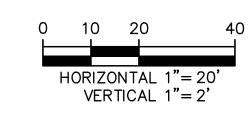


10 OF 58



	CURVE	TABLE			
CURVE	DELTA	RADIUS	LENGTH		
C18	80°06'11"	295.50'	413.13'		
C19	6°22'44"	362.50'	40.36'		
C20	96°02'41"	19.50'	32.69'		
C21	72°27'56"	19.50'	24.66'		
C22	62°33'16"	362.50'	395.77'		
C23	85°38'12"	24.50'	36.62'		
C24	85°33'20"	24.50'	36.58'		

	LINE TABI	LE
LINE	BEARING	LENGTH
L22	N86°40'40"E	125.18'
L25	N89°49'30"W	123.57'
L26	N0°10'31"W	5.00'
L27	S0*56'12"E	5.00'
L28	S0°13'03"E	16.17'
L29	N10°04'19"E	131.19'
L30	S10°04'19"W	131.25'
L31	N84°22'21"W	9.08'





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EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO.
ENG 21-0001
FILENAME

11-221038-HC03.dwg

CITY OF KINGMANENGINEERING DEPARTMENT

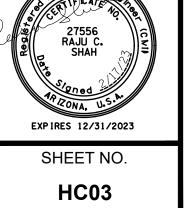
310 NORTH 4TH STREET

KINGMAN, ARIZONA 86401

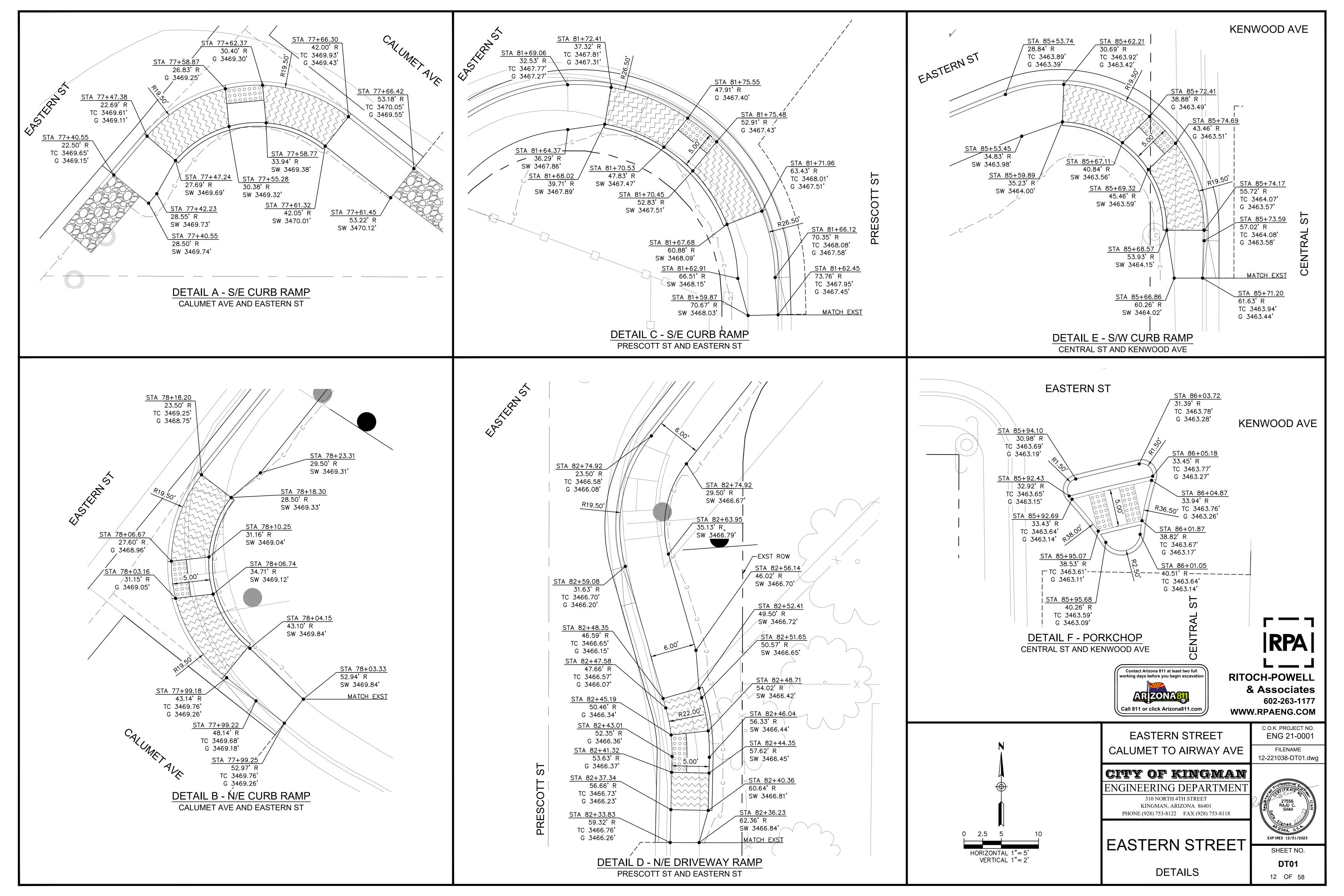
PHONE (928) 753-8122 FAX (928) 753-8118

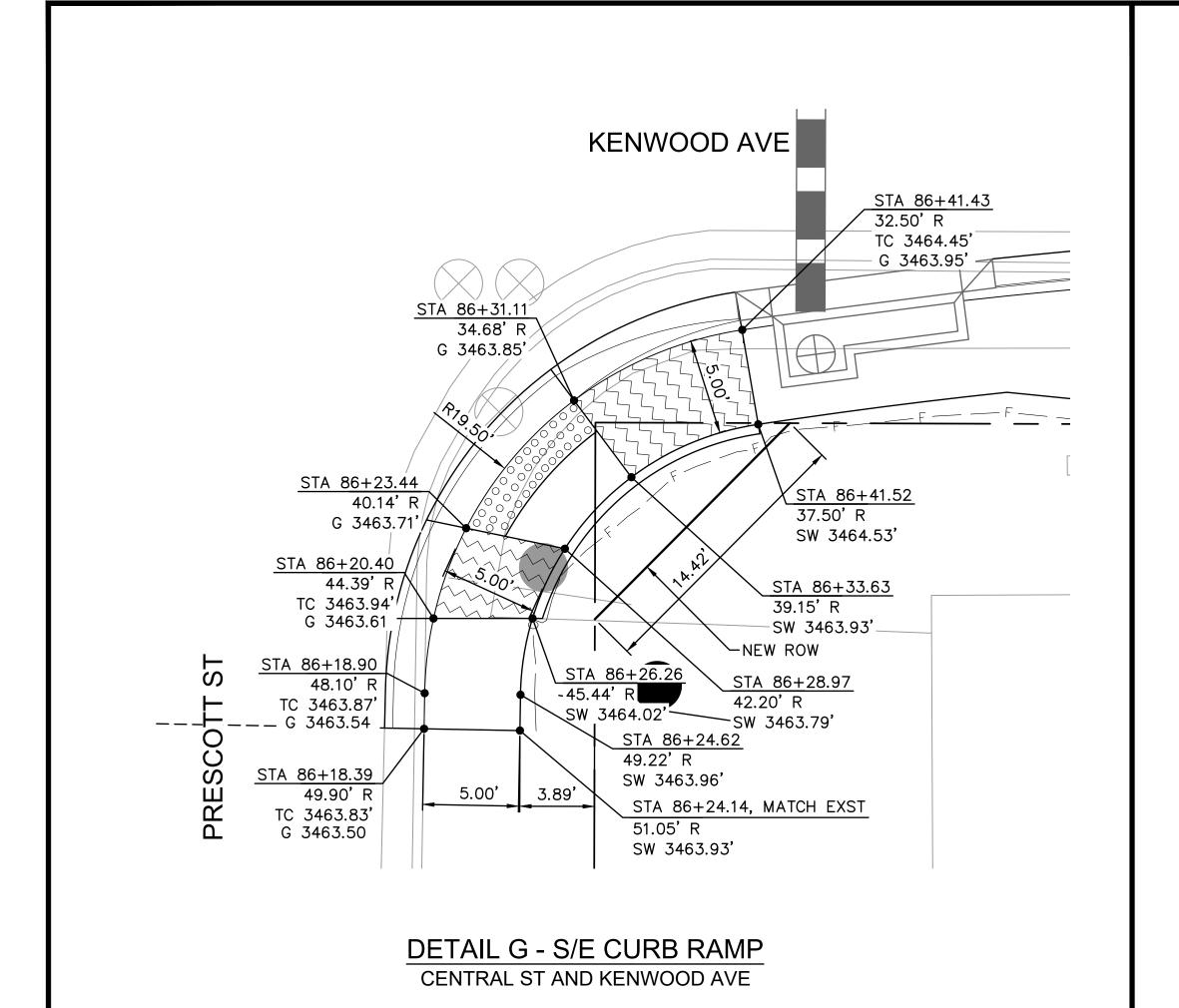


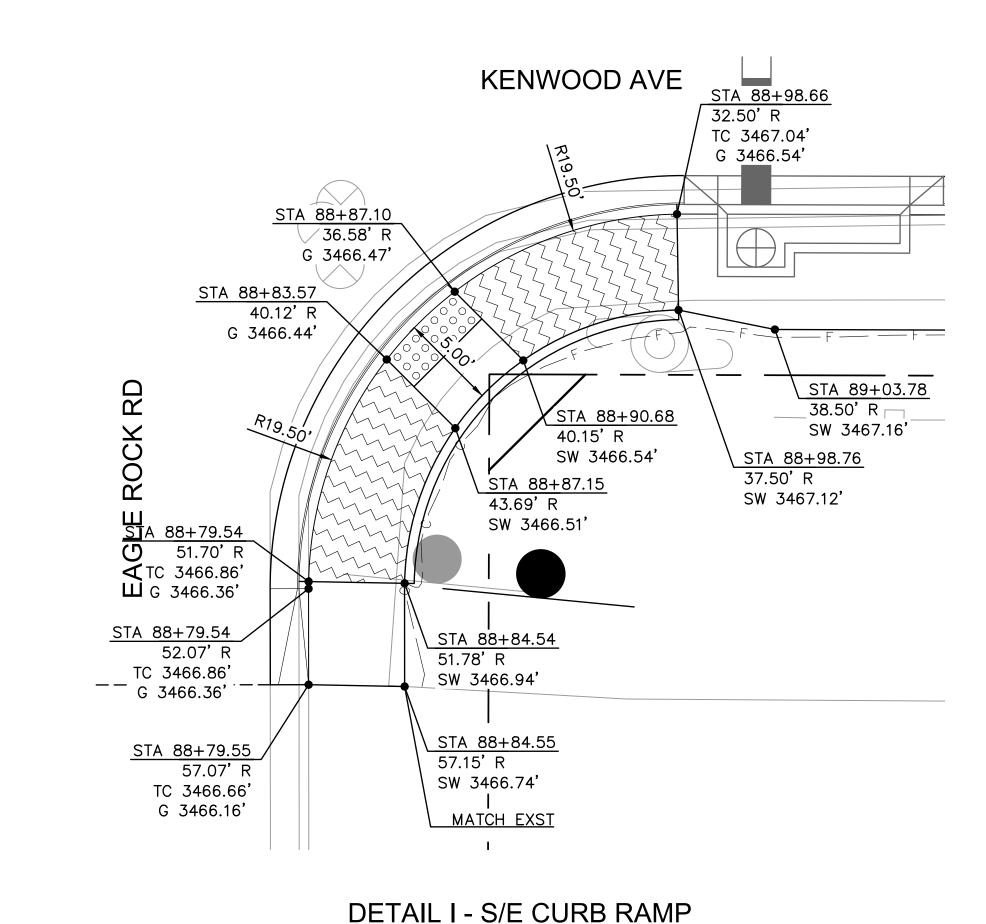
HORIZONTAL CONTROL



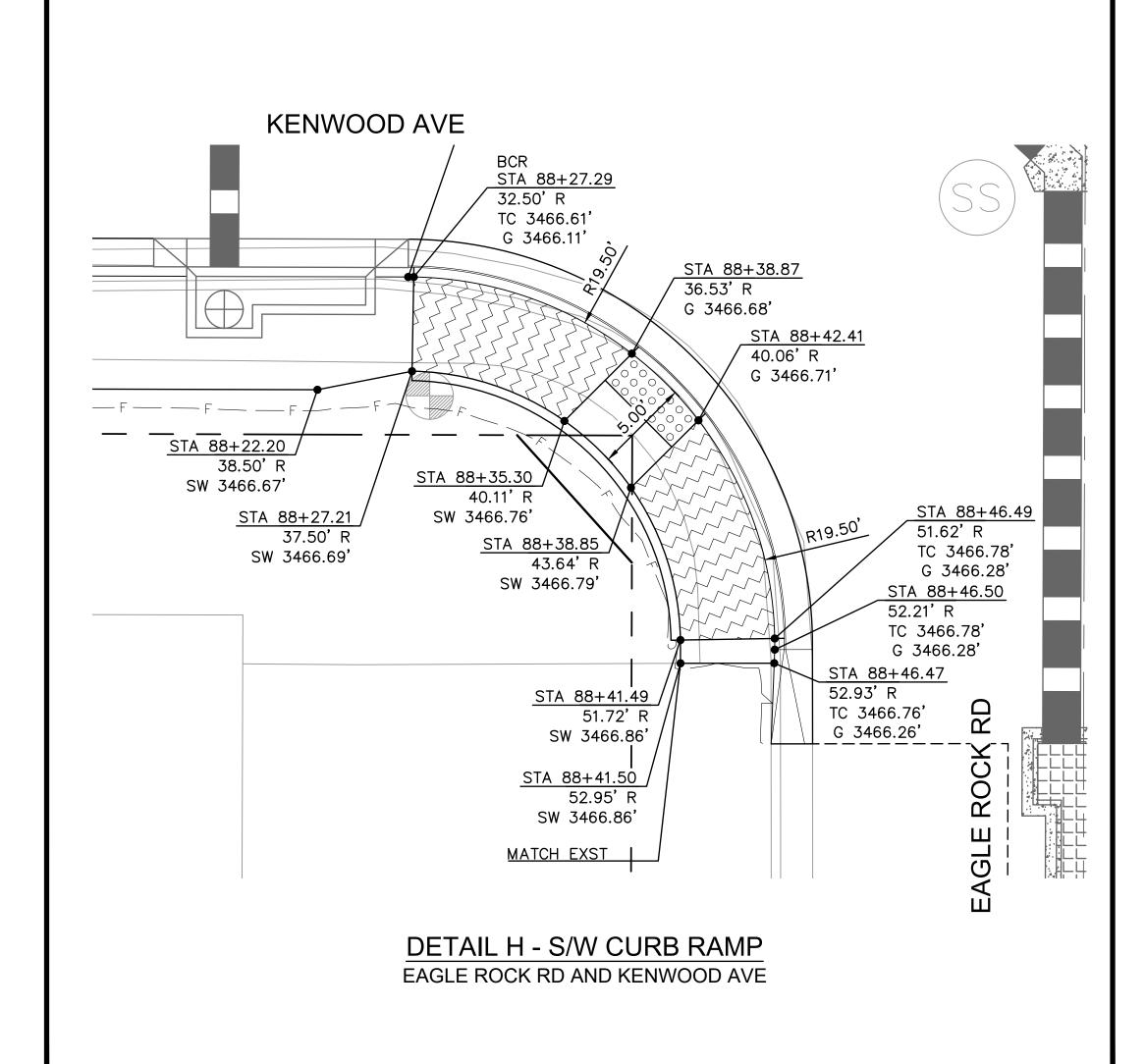
11 OF 58

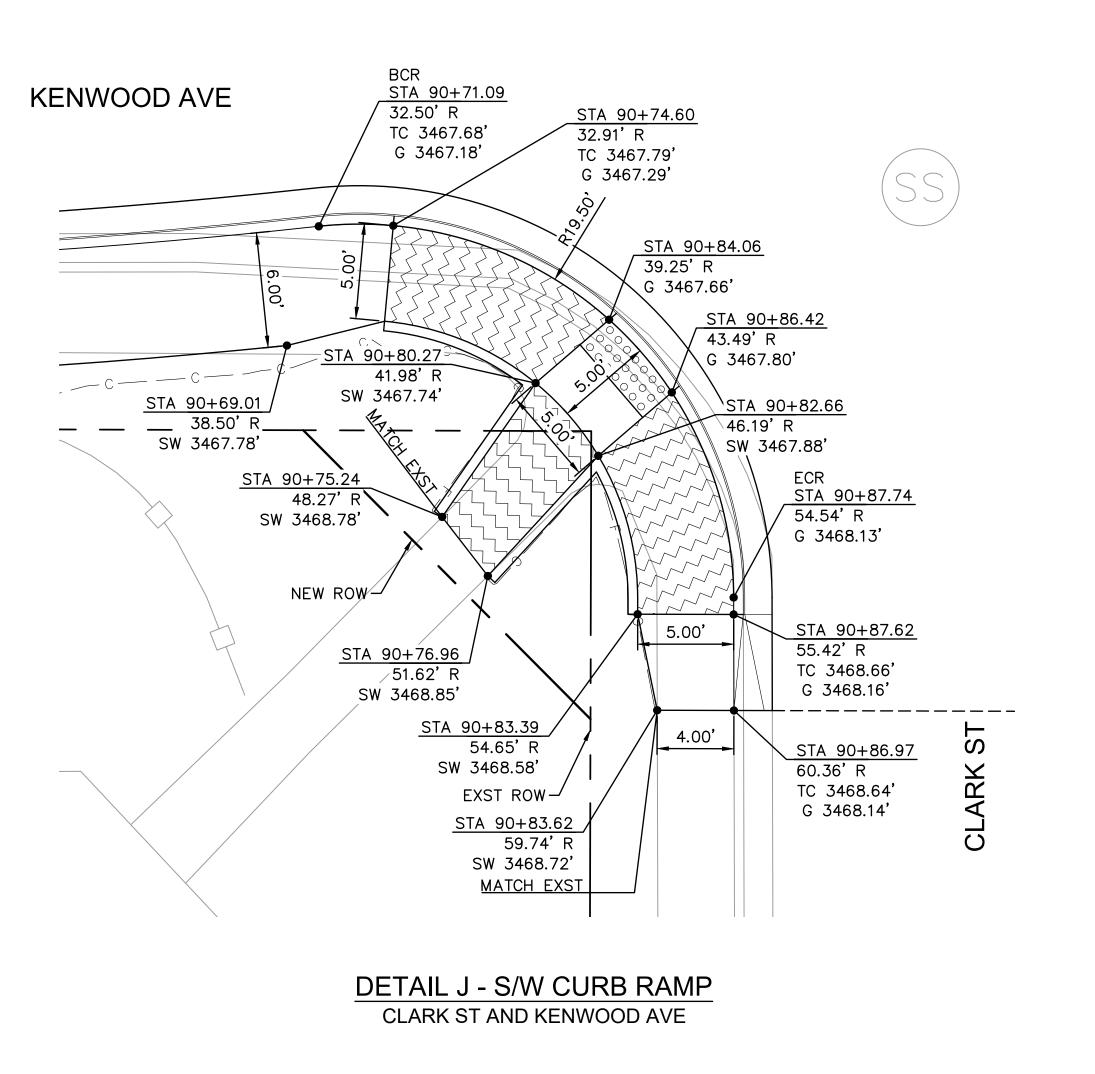


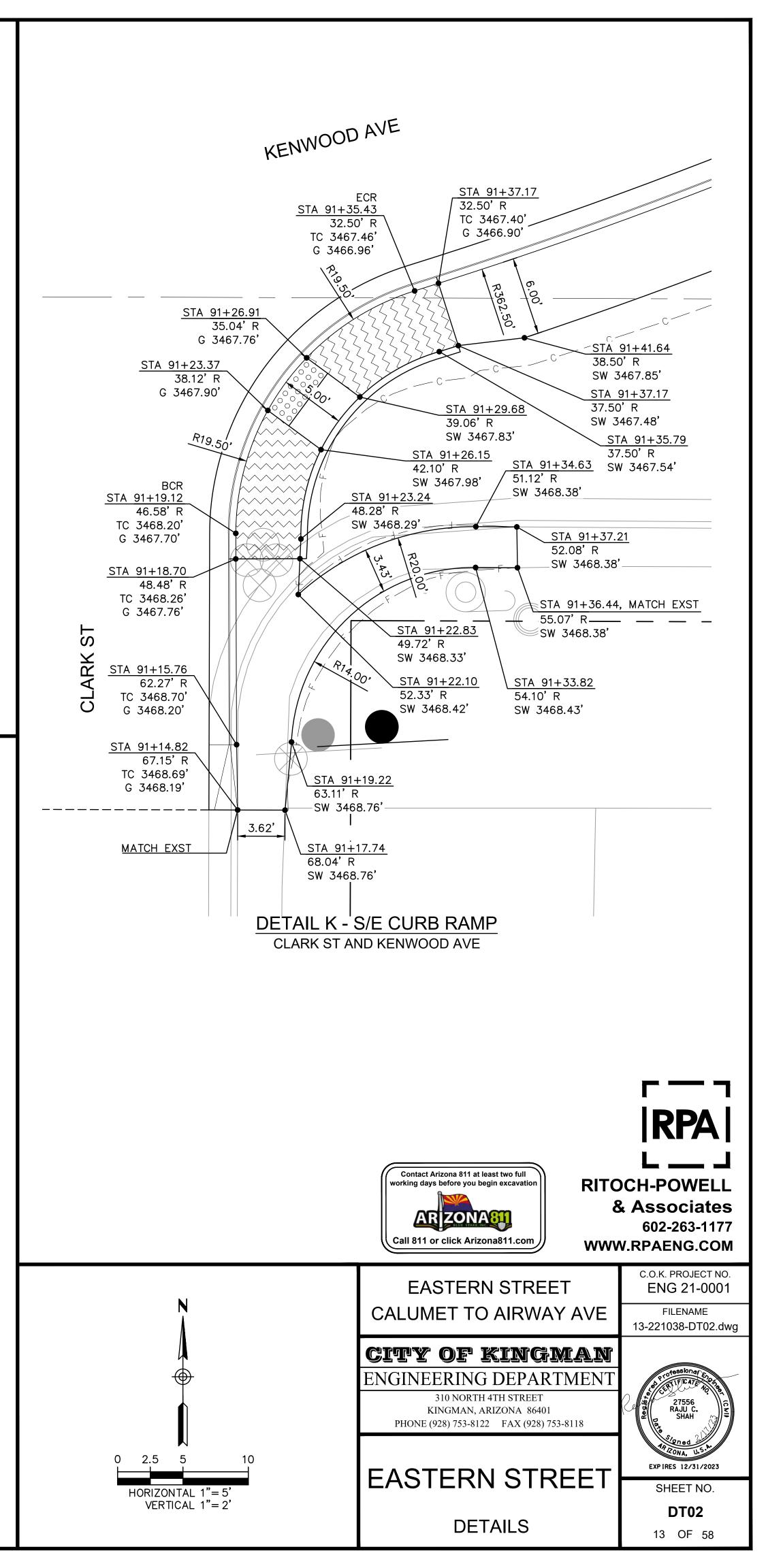


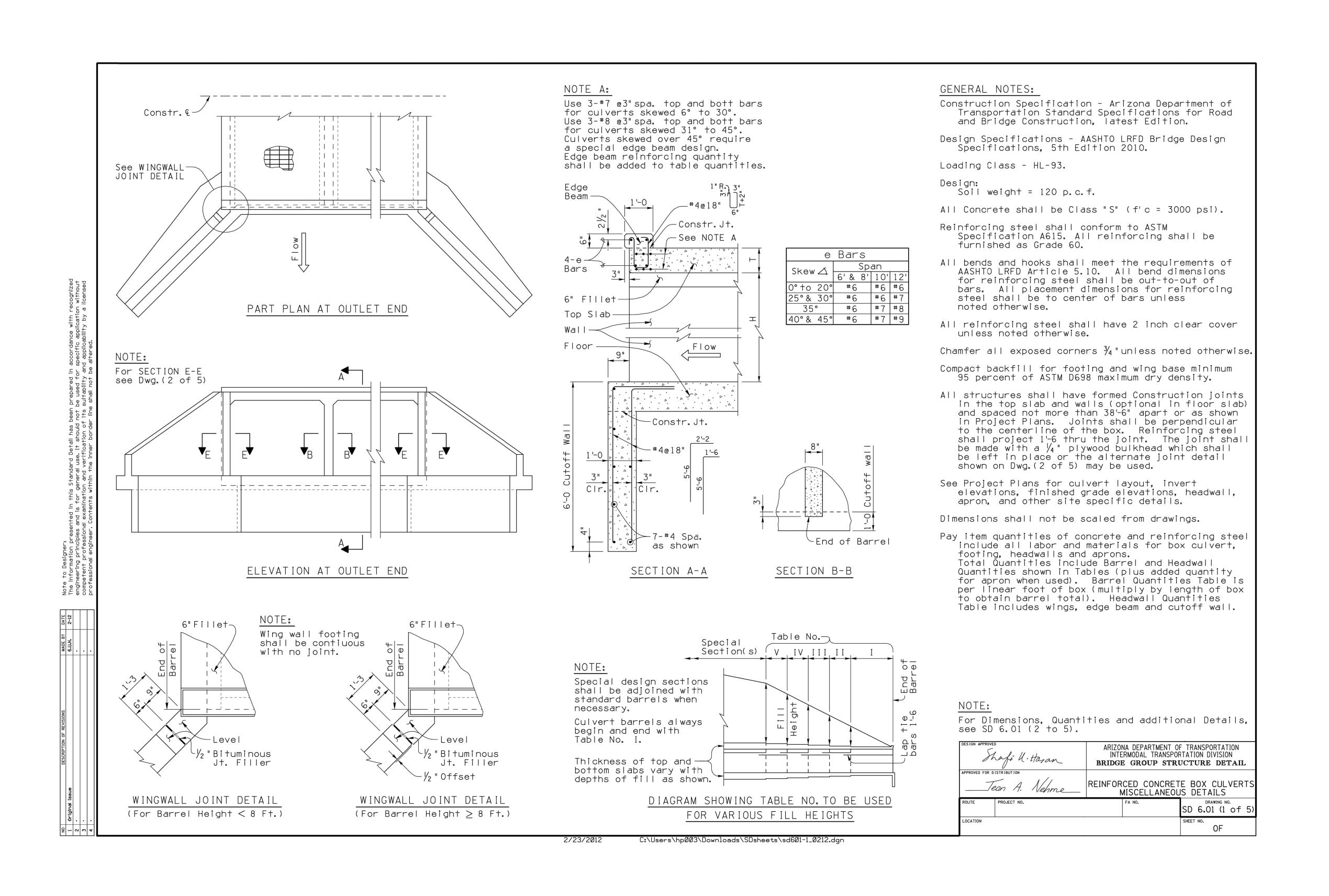


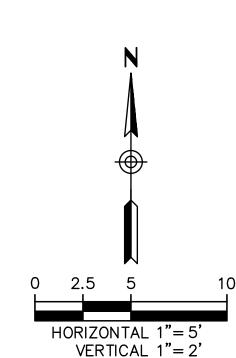
EAGLE ROCK RD AND KENWOOD AVE















EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO.
ENG 21-0001

FILENAME

14-221038-DT03.dwg

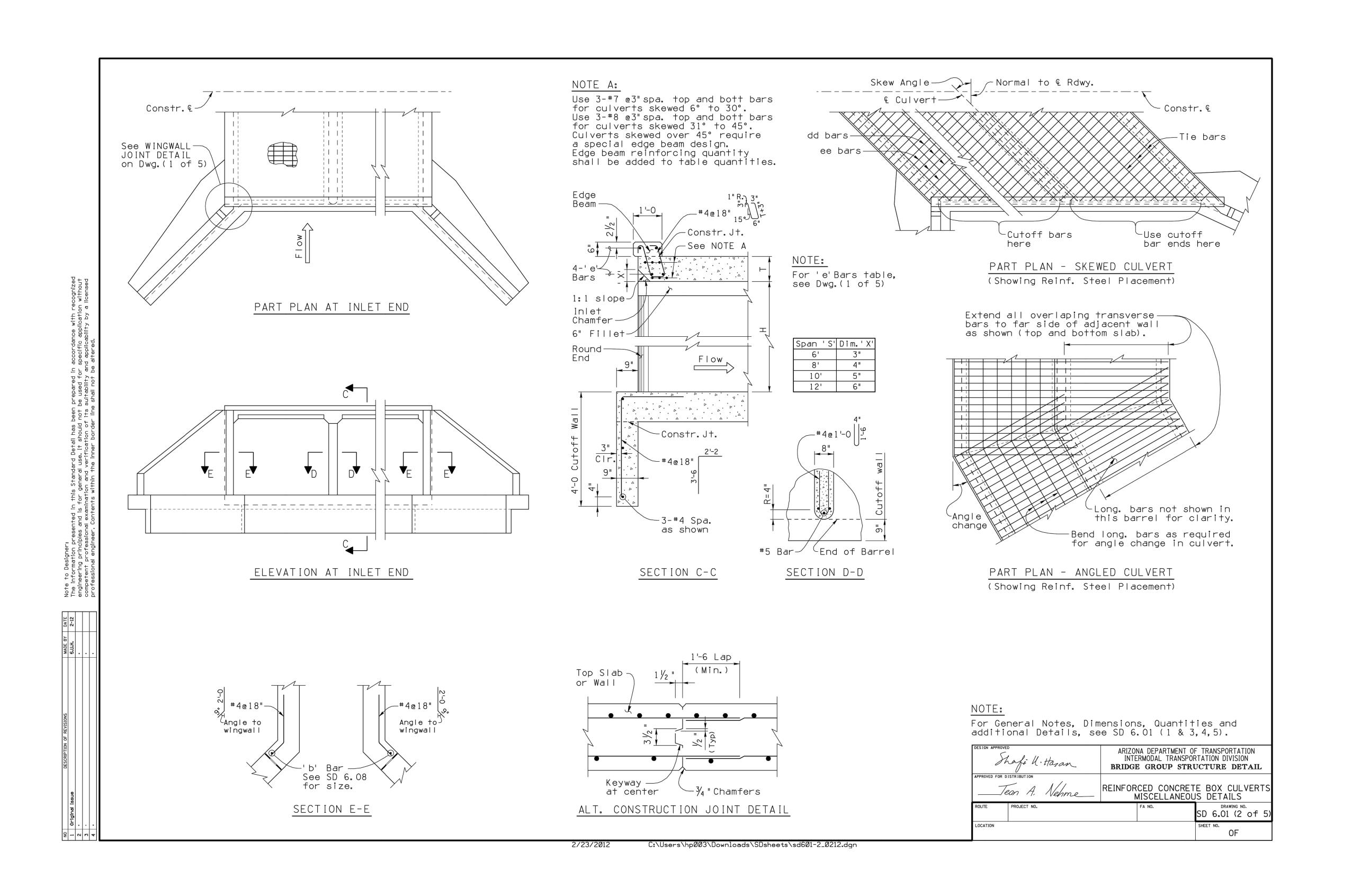
CITY OF KINGMAN ENGINEERING DEPARTMENT

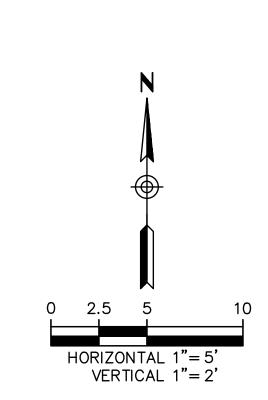
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DETAILS

DT0314 OF 58









EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO.
ENG 21-0001

FILENAME
15-221038-DT04.dwg

City of Kingman

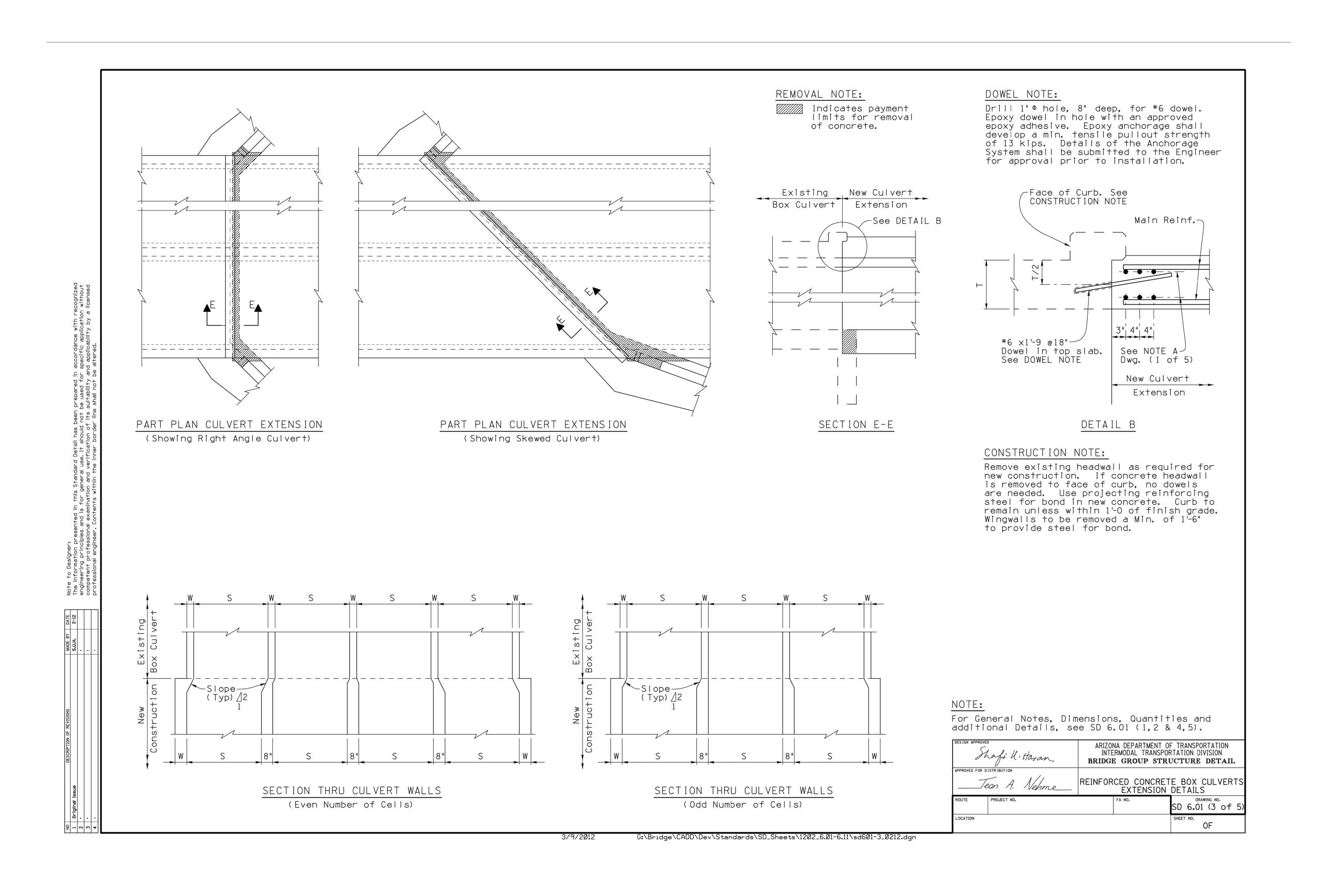
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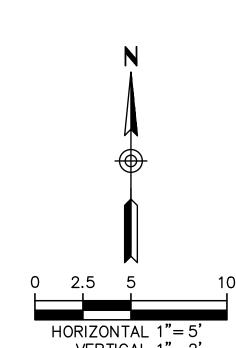
310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118



DETAILS

DT04
15 OF 58





VERTICAL 1"= 2'



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EASTERN STREET CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO. ENG 21-0001 FILENAME 16-221038-DT05.dwg

CITY OF KINGMAN

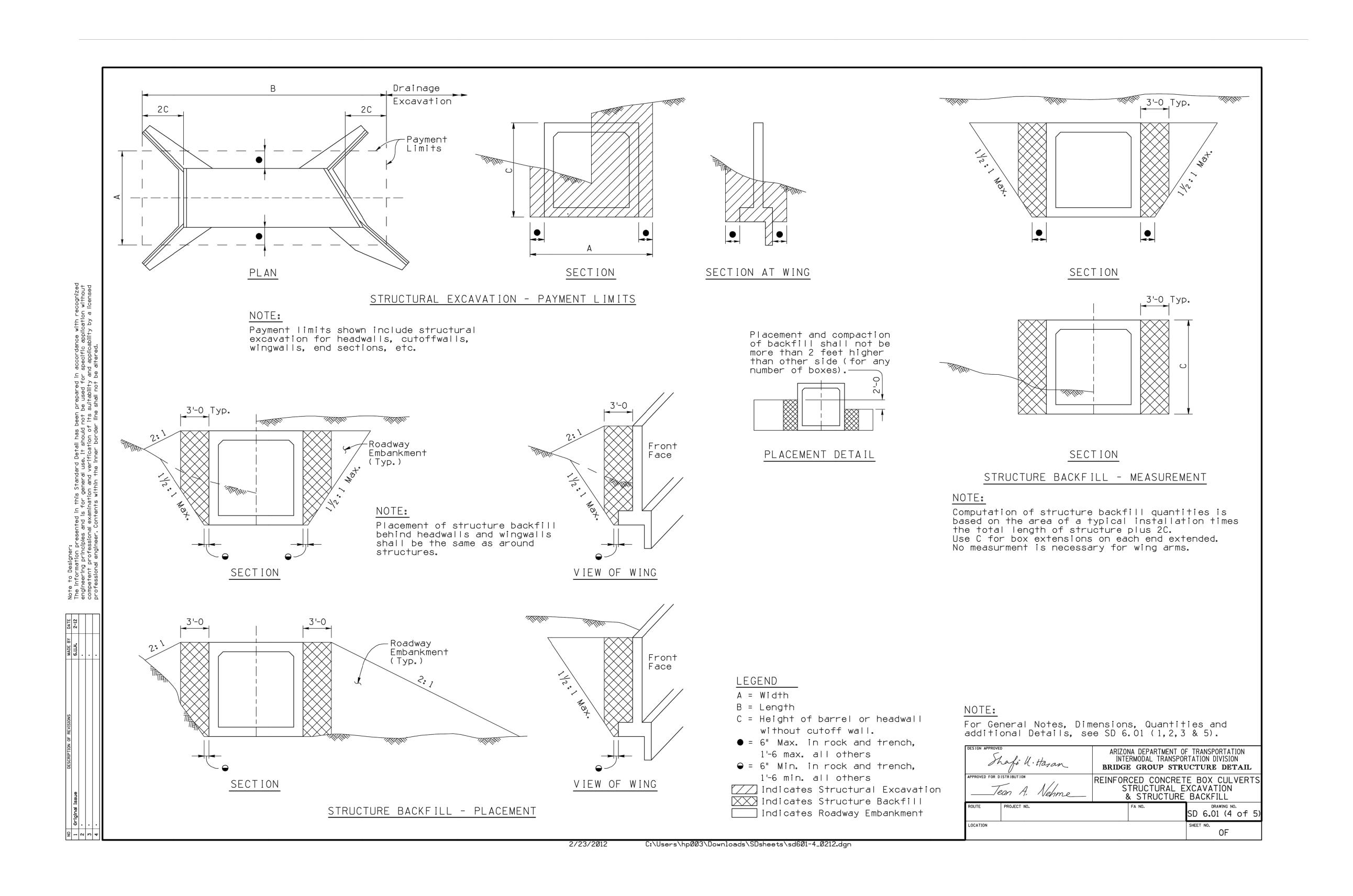
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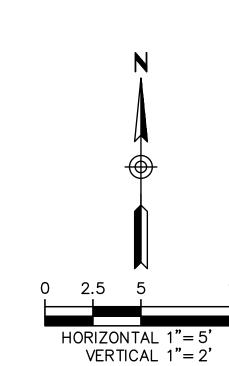
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DETAILS

SHEET NO. DT05 16 OF 58





5 10

NTAL 1"= 5'

FICAL 1"= 2'

RPA



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EASTERN STREET
CALUMET TO AIRWAY AVE

FILENAME 17-221038-DT06.dwg

C.O.K. PROJECT NO.

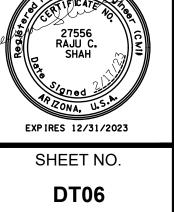
CITY OF KINGMAN

ENGINEERING DEPARTMENT

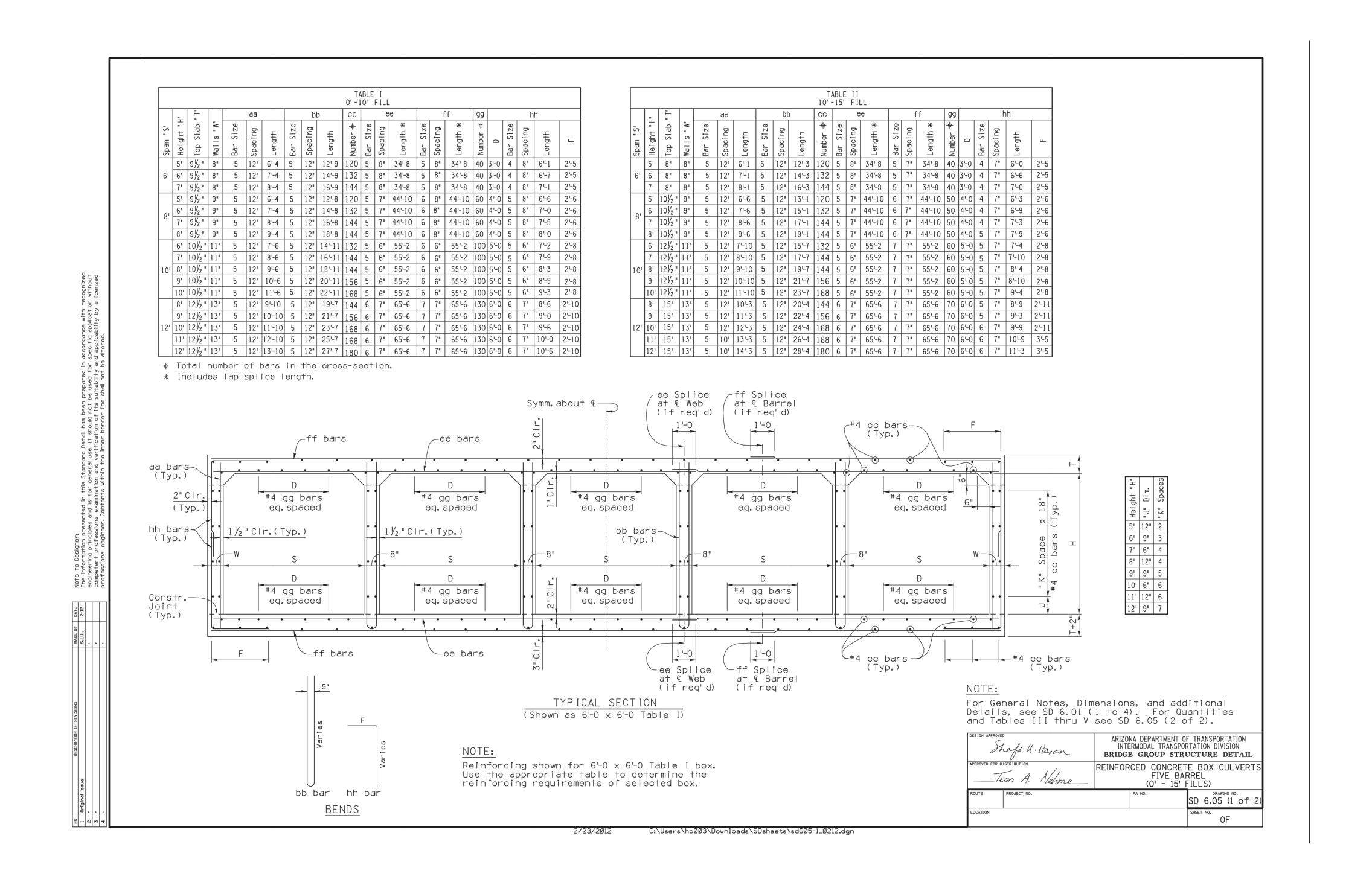
310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

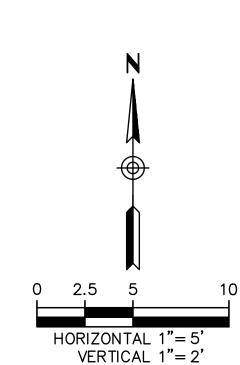


DETAILS



17 OF 58









EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO.
ENG 21-0001
FILENAME

18-221038-DT07.dwg

CITY OF KINGMAN

ENGINEERING DEPARTMENT

310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118



DETAILS

SHEET NO. **DT07**18 OF 58

_ aa bb										СС	cc ee ff gg hh							hh				
Span "S"	eight "H"	op Slab "	alls "W"	ar Size	pacing	ength	ar Size	acing	ength	Number 💠	ar Size	Spacing	* ength	ar Size	pacing	ength *	umber 💠	۵ ۵	ar Size	pacing	ength	L
S	He F		*	B	S		8	ďS			B			В	- 		z	71.0	m	7"		21.1
CI	5'	9½"	8"	5	12"	6'-4	5	12"	12'-9	120	5	7"	34'-8	5	7"	34'-8	40	3'-0	4	7"	6'-1 6'-7	2'-
6'	6' 7'	9½"	8" 8"	5	12"	7'-4	5	12"	14'-9	132	5	7" 7"	34'-8 34'-8	5		34'-8 34'-8	40	3'-0	4	<u>'</u>		2'-!
	<u> </u>	9½"		5	10"	8'-4	5	12"	16'-9	144	5			5	6" 7"		40	3'-0	4	6" 7"	7'-1	2'-!
	5'	12"	9"	5	12"	6'-9	5	12"	13'-7	120	5	7"	44'-10	6		44'-10	50	4'-0	4		6'-5	2'-(
81	6'	12"	9"	5	12"	7'-9	5	12"	15'-7	132	5	7"	44'-10	6	7"	44'-10	50	4'-0	4	7"	6'-11	2'-1
	7'	12"	9"	5	12"	8'-9	5	12"	17'-7	144	5	7"	44'-10	6	7"	44'-10	50	4'-0	5	7"	7'-5	2'-(
	8'	12"	9"	5	10"	9'-9	5	12"	19'-7	144	5	7"	44'-10	6	7"	44'-10	50	4'-0	5	7"	7'-11	2'-
	6'	15"	11"	5	12"	8'-3	5	12"	16'-5	132	6	8"	55'-2	7	7"	55'-2	60	5'-0	5	7"	7'-6	2'-8
	7'	15"	11"	5	12"	9'-3	5	12"	18'-5	144	6	8"	55'-2	7	7"	55'-2	60	5'-0	5	7"	8'-0	2'-8
10'	8'	15"	11"	5	12"	10'-3	5	12"	20'-5	144	6	8"	55'-2	7	7"	55'-2	60	5'-0	5	7"	8'-6	2'-8
	91	15"	11"	5	12"	11'-3	5	12"	22'-5	156	6	8"	55'-2	7	7"	55'-2	60	5'-0	5	7"	9'-0	2'-8
	10'	15"	11"	5	12"	12'-3	5	12"	24'-5	168	6	8"	55'-2	7	7"	55'-2	60	5'-0	6	7"	9'-6	2'-9
	8'	18"	13"	5	12"	10'-9	5	12"	21'-1	144	6	6"	65'-6	7	6"	65'-6	70	6'-0	5	6"	9'-6	3'-!
	9'	18"	13"	5	12"	11'-9	5	12"	23'-1	156	6	6"	65'-6	7	6"	65'-6	70	6'-0	5	6"	10'-0	3'-!
12'	10'	18"	13"	5	10"	12'-9	5	12"	25'-1	168	6	6"	65'-6	7	6"	65'-6	70	6'-0	5	6"	10'-7	3'-!
	11'	18"	13"	5	10"	13'-9	5	12"	27'-1	168	6	6"	65'-6	7	6"	65'-6	70	6'-0	6	6"	11'-1	3'-!
	12'	18"	13"	5	10"	14'-9	5	12"	29'-1	180	6	6"	65'-6	7	6"	65'-6	70	6'-0	6	6"	11'-7	3'-5

ullet Total number of bars in the cross-section.

* Includes lap splice length.

											3LE -30	NO. ' FI										
	_	"			aa			b	b	СС		е	е	ff				gg			hh	
Span "S"	Height "H	Top Slab	"W " S EW	Bar Size	Spacing	Length	Bar Size	Spacing	Length	Number +	Bar Size	Spacing	Length *	Bar Size	Spacing	Length *	Number 💠	Q	Bar Size	Spacing	Length	ட
	5'	121/2 "	8"	5	12"	6'-10	5	12"	13'-10	120	5	7"	34'-8	5	6"	34'-8	40	3'-0	4	6"	6'-4	2' -!
6'	6'	121/2 "	8"	5	12"	7'-10	5	12"	15'-10	132	5	7"	34'-8	5	6"	34'-8	40	3'-0	4	6"	6'-10	2' -5
	7'	12½"	8"	5	10"	8'-10	5	12"	17'-10	144	5	7"	34'-8	5	6"	34'-8	40	3'-0	5	6"	7'-4	2' -5
	5'	16"	9"	5	12"	7'-5	5	12"	14'-11	120	5	6"	44'-10	6	6"	44'-10	50	4'-0	4	6"	6'-9	2' -6
8'	6'	16"	9"	5	12"	8'-5	5	12"	16'-11	132	5	6"	44'-10	6	6"	44'-10	50	4'-0	4	6"	7'-3	2' -6
Ü	7'	16"	9"	5	10"	9'-5	5	12"	18'-11	144	5	6"	44'-10	6	6"	44'-10	50	4'-0	5	6"	7'-9	2' -6
	8'	16"	9"	5	10"	10'-5	5	12"	20'-11	144	5	6"	44'-10	6	6"	44'-10	50	4'-0	5	6"	8'-3	2' -6
	6'	19"	11"	5	12"	8'-11	5	12"	17'-6	132	6	6"	55'-2	7	6"	55'-2	60	5'-0	5	6"	8'-0	2' -9
	7'	19"	11"	5	12"	9'-11	5	12"	19'-6	144	6	6"	55'-2	7	6"	55'-2	60	5'-0	5	6"	8'-6	2' -9
10'	8'	19"	11"	5	12"	10'-11	5	12"	21'-6	144	6	6"	55'-2	7	6"	55'-2	60	5'-0	5	6"	9'-0	2' -9
	9'	19"	11"	5	10"	11'-11	5	12"	23'-6	156	6	6"	55'-2	7	6"	55'-2	60	5'-0	6	6"	9'-6	2' -9
	10'	19"	11"	5	9"	12'-11	5	12"	25'-6	168	6	6"	55'-2	7	6"	55'-2	60	5'-0	6	6"	10'-0	2' -9
	8'	23"	13"	5	12"	11'-7	5	12"	22'-7	144	7	7"	65'-6	7	6"	65'-6	70	6'-0	6	6"	10'-0	3' -5
	9'	23"	13"	5	10"	12'-7	5	12"	24'-7	156	7	7"	65'-6	7	6"	65'-6	70	6'-0	6	6"	10'-6	3' -5
12'	10'	23"	13"	5	10"	13'-7	5	12"	26'-7	168	7	7"	65'-6	7	6"	65'-6	70	6'-0	6	6"	11'-0	3' -5
	11'	23"	13"	5	10"	14'-7	5	12"	28'-7	168	7	7"	65'-6	7	6"	65'-6	70	6'-0	6	6"	11'-6	3' -5
	12'	23"	13"	5	7"	15'-7	5	12"	30'-7	180	7	7"	65'-6	7	6"	65'-6	70	6'-0	6	6"	12'-0	3' -5

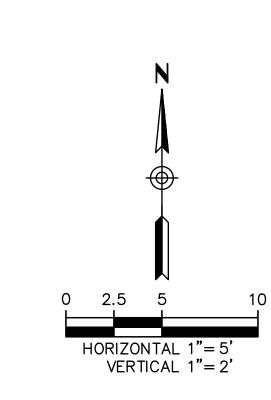
												NO.										
	_	<u>_</u>		đđ		bb		cc ee			ff		gg		hh							
Span "S"	Height "H"	Top Slab	Walls "W"	Bar Size	Spacing	Length	Bar Size	Spacing	Length	Number 💠	Bar Size	Spacing	Length *	Bar Size	Spacing	Length *	Number 💠	Q	Bar Size	Spacing	Length	Ŀ
6'	5'	11"	8"	5	12"	6'-7	5	12"	13'-2	120	5	7"	34'-8	5	7"	34'-8	40	3'-0	4	7"	6'-3	2'-5
	6'	11"	8"	5	12"	7'-7	5	12"	15'-2	132	5	7"	34'-8	5	7"	34'-8	40	3'-0	4	7"	6'-9	2'-5
	7'	11"	8"	5	10"	8'-7	5	12"	17'-2	144	5	7"	34'-8	5	7"	34'-8	40	3'-0	5	7"	7'-3	2'-5
8'	5'	14"	9"	5	12"	7'-1	5	12"	14'-1	120	5	7"	44'-10	6	7"	44'-10	50	4'-0	4	7"	6'-7	2'-6
	6'	14"	9"	5	12"	8'-1	5	12"	16'-1	132	5	7"	44'-10	6	7"	44'-10	50	4'-0	4	7"	7'-1	2'-6
	7'	14"	9"	5	10"	9'-1	5	12"	18'-1	144	5	7"	44'-10	6	7"	44'-10	50	4'-0	5	7"	7'-7	2'-6
	8'	14"	9"	5		10'-1	5	12"	20'-1	144	5	7"	44'-10	6	7"	44'-10	50	4'-0	5	7"	8'-1	2'-6
	6'	17"	11"	5	12"	8'-7	5	12"	16'-11	132	6	7"	55'-2	7	7"	55'-2	60	5'-0	5	7"	7'-9	2'-9
	7'	17"	11"	5	12"	9'-7	5	12"	18'-11	144	6	7"	55'-2	7	7"	55'-2	60	5'-0	5	7"	8'-3	2'-9
10'	8'	17"	11"	5		10'-7	5	12"	20'-11	144	6	7"	55'-2	7	7"	55'-2	60	5'-0	5	7"	8'-9	2'-9
	9'	17"	11"	5		11'-7	5	12"	22'-11	156	6	7"	55'-2	7	7"	55'-2	60	5'-0	6	7"	9'-3	2'-9
	10'	17"	11"	5		12'-7	5	12"	24'-11	168	6	7"	55'-2	7	7"	55'-2	60	5'-0	6	7"	9'-9	2'-9
	8'	20½ "	13"	5		11'-2	5	12"	22'-1	144	6	6"	65'-6	7	6"	65'-6	70	6'-0	6	6"	9'-3	2'-1
	9'	20½ "	13"	5		12'-2	5	12"	24'-1	156	6	6"	65'-6	7	6"	65'-6	70	6'-0	6	6"	9'-9	2'-1
12'	10'	20½ "	13"	5		13'-2	5	12"	26'-1	168	6	6"	65'-6	7	6"	65'-6	70	6'-0	6	6"	10'-3	2'-1
	11'	20½ "	13"	5	10"	14'-2	5	12"	28'-1	168	6	6"	65'-6	7	6"	65'-6	70	6'-0	6	6"	11'-3	3'-5
	12'	20½ "	13"	5	9"	15'-2	5	12"	30'-1	180	6	6"	65'-6	7	6"	65'-6	70	6'-0	6	6"	11'-9	3'-5

	QUANTITIES PER LINEAR FOOT OF BARREL (FIVE BARREL)											
		Tab	le [Tab	le II	Tabl	e III	Tabl	e IV	Table V		
Span "S"	Height "H"	Concrete C.Y.	Reinf, Steel Lbs.	Concrete C.Y.	Reinf. Steel Lbs.	Concrete C.Y.	Reinf. Steel Lbs.	Concrete C.Y.	Reinf. Steel Lbs.	Concrete C. Y.	Reinf. Steel Lbs.	
	5'	2.991	417.7	2.676	434.2	2.991	452.6	3.306	455.6	3.620	485.4	
6'	6'	3.139	438.2	2.824	454.9	3.139	473.4	3.454	476.4	3.769	506.6	
	7'	3.287	458.6	2.972	475.6	3.287	524.3	3.602	519.3	3.917	553.4	
	5'	3.681	593.8	3.953	606.6	4.362	610.0	4.907	613.5	5.453	689.7	
8'	6'	3.835	615.4	4.108	627.3	4.516	630.7	5.062	634.3	5.607	710.9	
O	7'	3.989	636.4	4.262	648.1	4.671	670.5	5.216	678.3	5.761	759.2	
	81	4.144	650.5	4.416	680.7	4.825	688.6	5.370	692.7	5.916	774.2	
	6	4.915	860.3	5.588	885.8	6.429	909.7	7.102	949.8	7.775	1077.3	
	7'	5.082	883.6	5.755	907.8	6.596	931.7	7.269	971.8	7.941	1099.9	
10'	81	5.248	898.2	5.921	921.8	6.762	945.7	7. 435	985.8	8.108	1114.5	
	91	5.415	920.8	6.088	943.8	6.929	967.8	7.602	1036.9	8.275	1177.0	
	10'	5.582	943.4	6.255	965.8	7.096	1019.7	7.769	1065.8	8.441	1205.4	
	81	6.881	1176.0	7.882	1114.9	9.082	1269.8	10.083	1306.8	11.083	1384.1	
	9'	7.060	1199.6	8.061	1137.0	9.261	1292.4	10.262	1331.2	11.262	1413.8	
12'	10'	7. 239	1223.2	8.240	1189.7	9.440	1321.1	10.441	1361.2	11.441	1438.7	
	11'	7.418	1238.7	8.419	1215.9	9.619	1376.8	10.620	1384.0	11.620	1455.6	
	12'	7.597	1262.3	8.598	1239.9	9.798	1401.7	10.799	1413.1	11.799	1497.2	

For General Notes, Dimensions, and additional Details, see SD 6.01 (1 to 4). For Typical Section and Details, see SD 6.05 (1 of 2).

DESIGN APPR	Shafi U.	Hazan	ARIZONA DEPARTMENT OF INTERMODAL TRANSPOR BRIDGE GROUP STRU	TATION DIVISION
APPROVED FO	Jean A.	Nehme_	REINFORCED CONCRETE FIVE BAR (15' - 30' F	REL
ROUTE	PROJECT NO.		FA NO.	DRAWING NO. SD 6.05 (2 of 2)
LOCATION				SHEET NO.

C:\Users\hp003\Downloads\SDsheets\sd605-2_0212.dgn







RITOCH-POWELL & Associates 602-263-1177 WWW.RPAENG.COM

EASTERN STREET CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO. ENG 21-0001

FILENAME 19-221038-DT08.dwg

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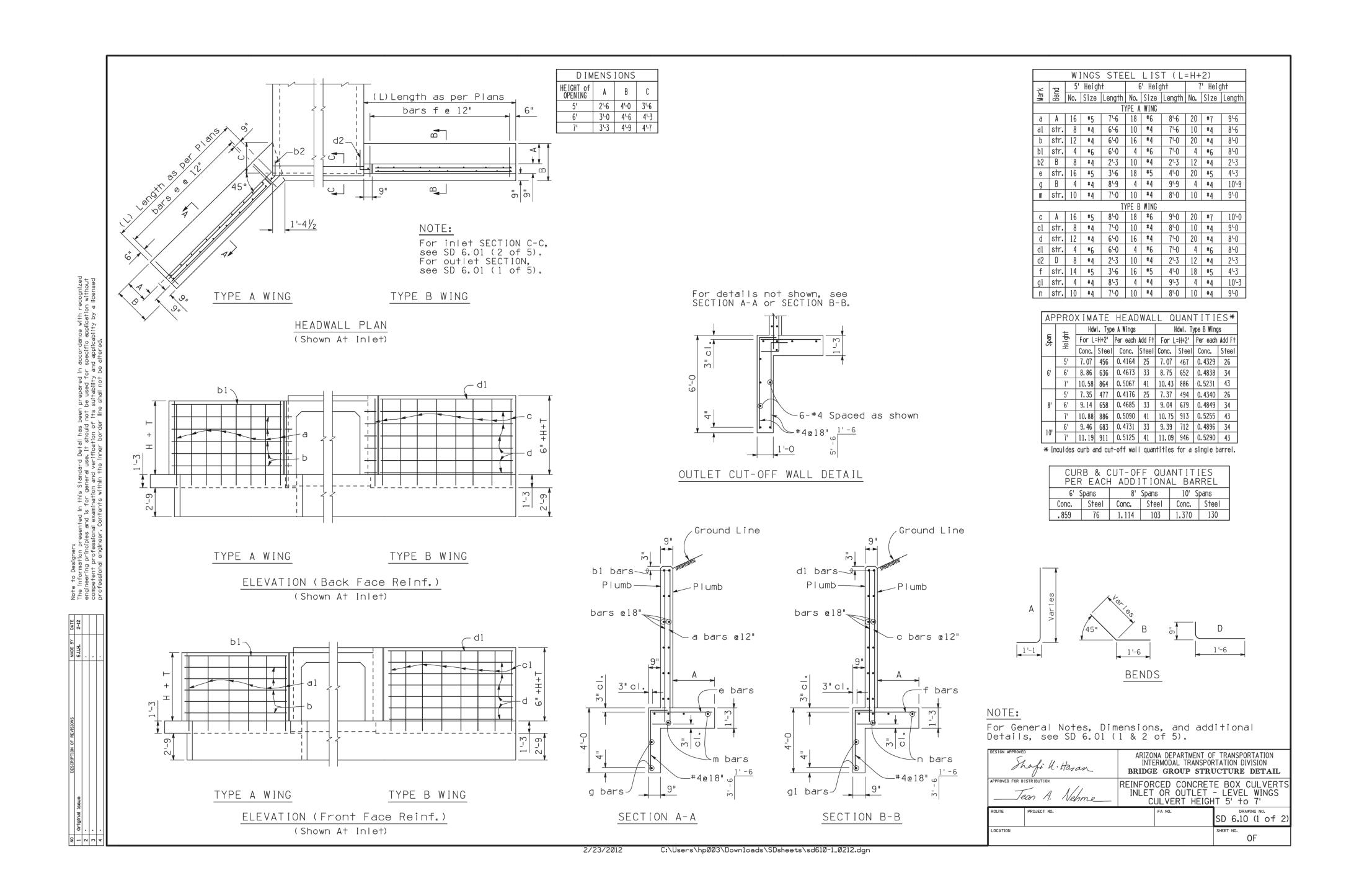
PHONE (928) 753-8122 FAX (928) 753-8118

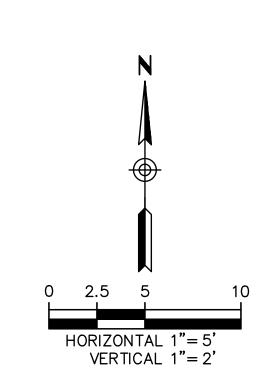
310 NORTH 4TH STREET KINGMAN, ARIZONA 86401

EASTERN STREET

DETAILS

SHEET NO. DT08 19 OF 58









EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO.
ENG 21-0001

FILENAME

20-221038-DT09.dwg

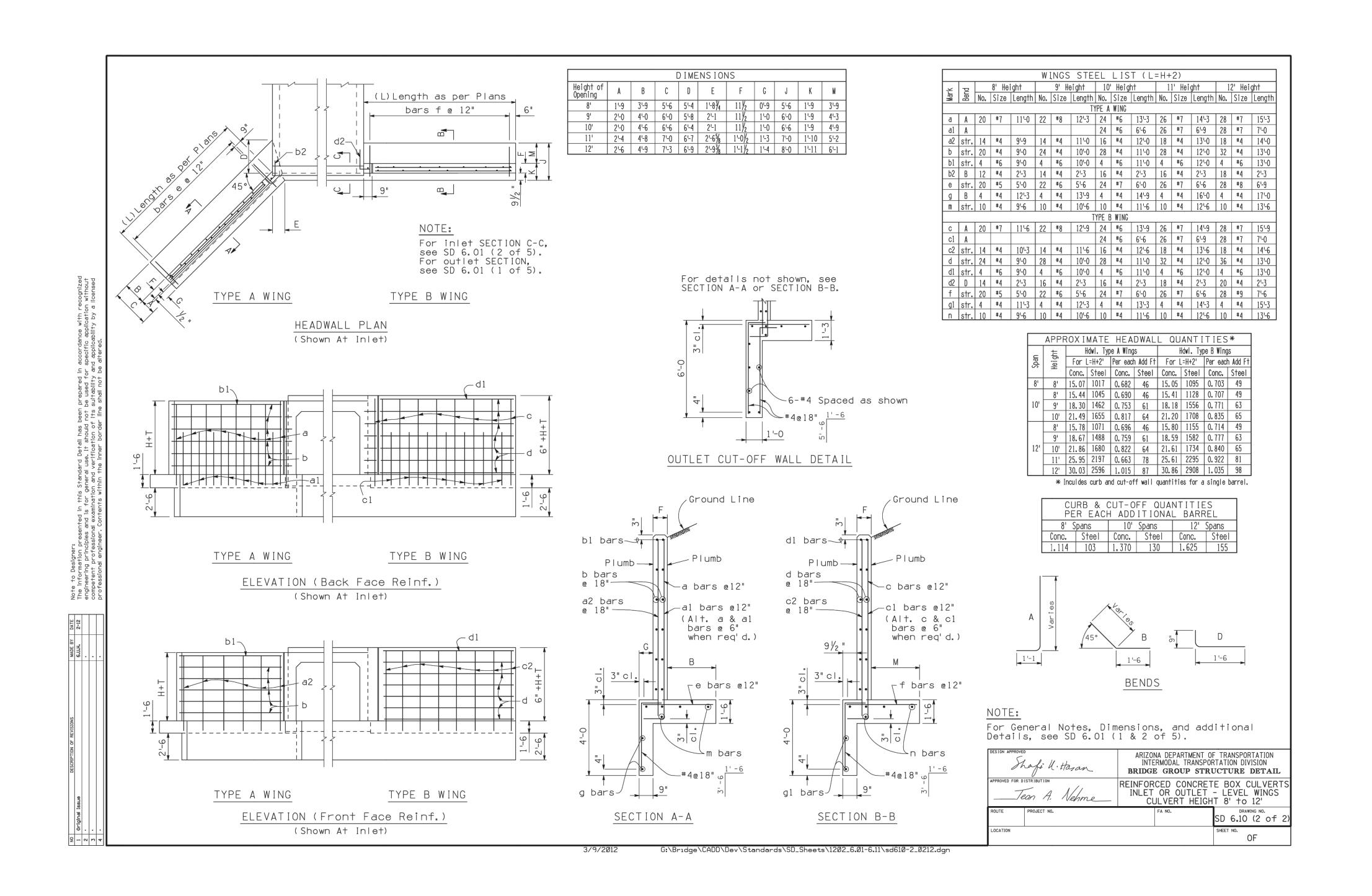
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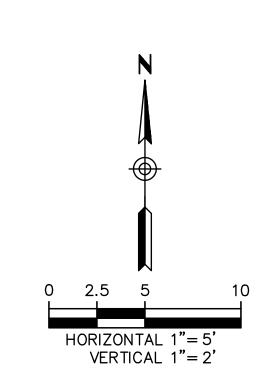
310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118



DETAILS

SHEET NO. **DT09**20 OF 58









EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO.
ENG 21-0001

FILENAME

21-221038-DT10.dwg

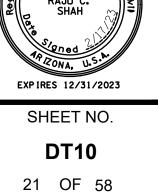
CITY OF KINGMAN

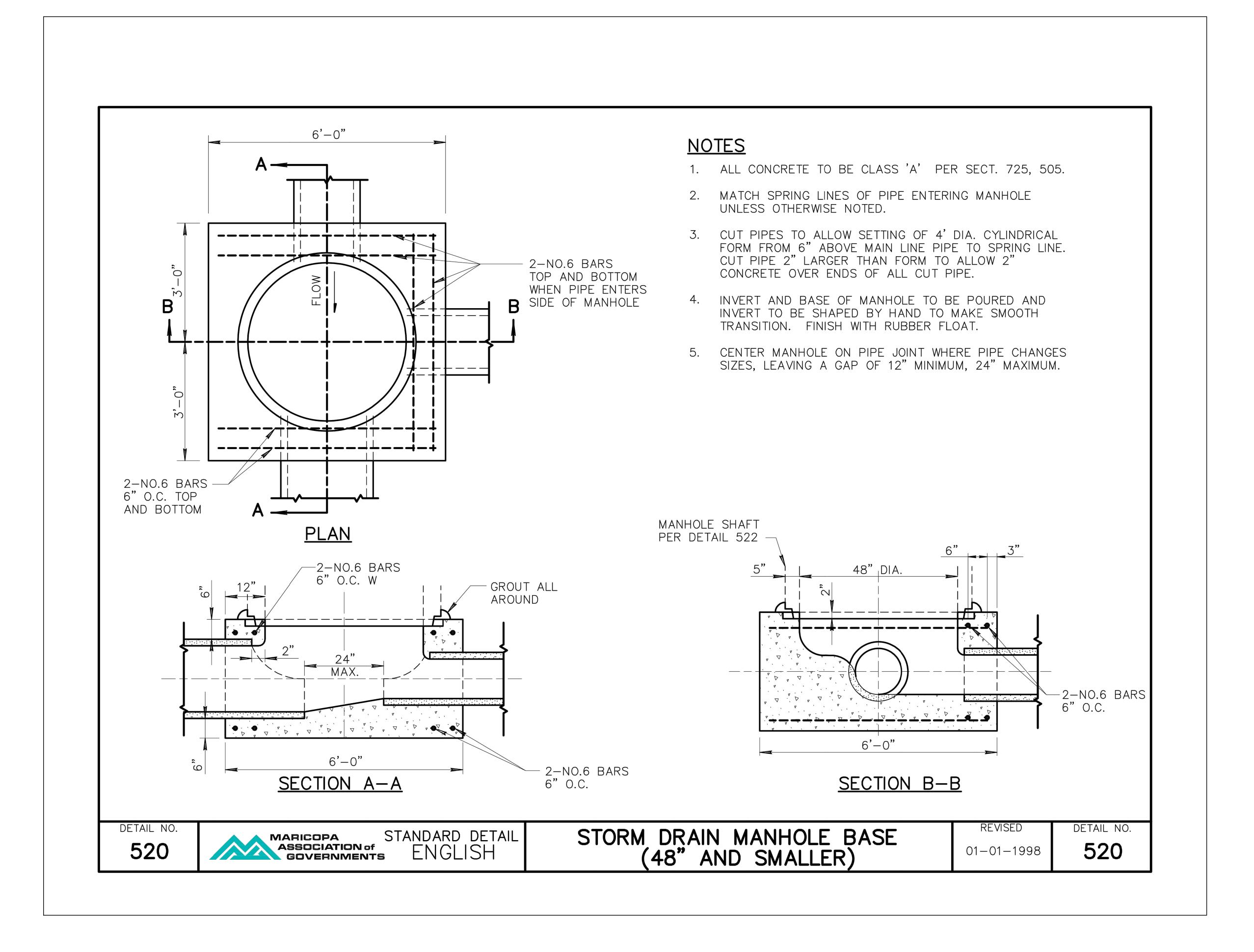
ENGINEERING DEPARTMEN

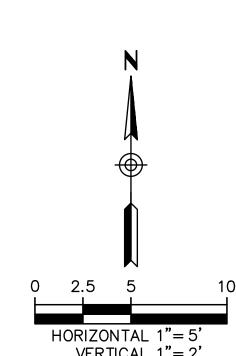
310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

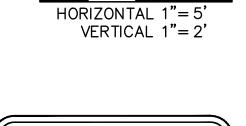


DETAILS











|RPA|

EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO.
ENG 21-0001
FILENAME

22-221038-DT11.dwg

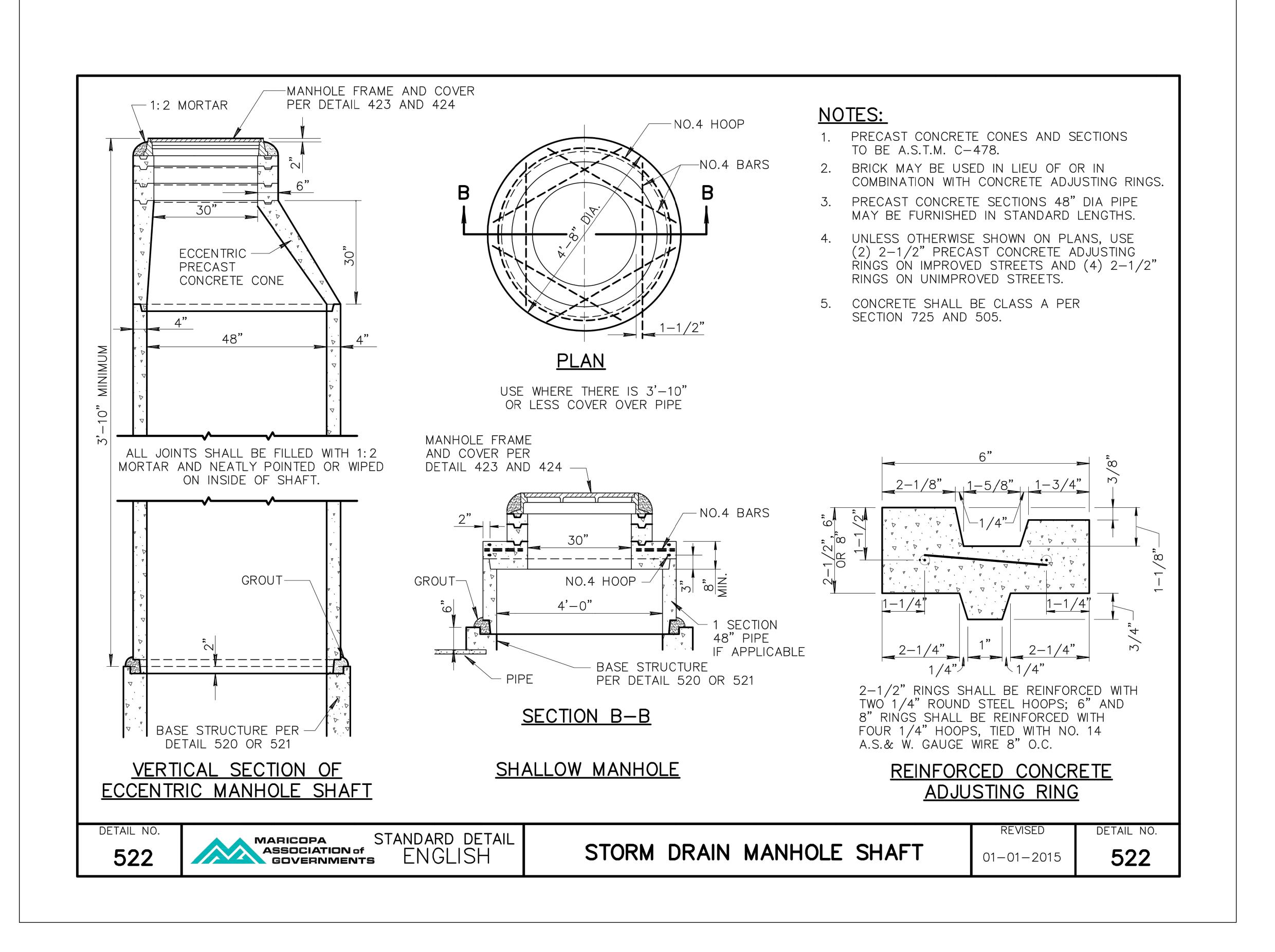
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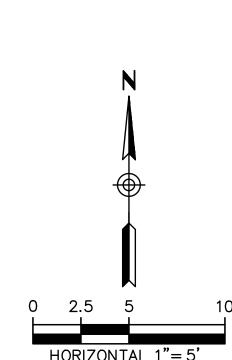
310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

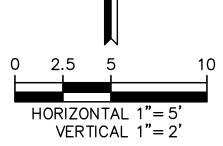


DETAILS

SHEET NO. **DT11**22 OF 58









|RPA|

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EASTERN STREET CALUMET TO AIRWAY AVE C.O.K. PROJECT NO. ENG 21-0001 FILENAME

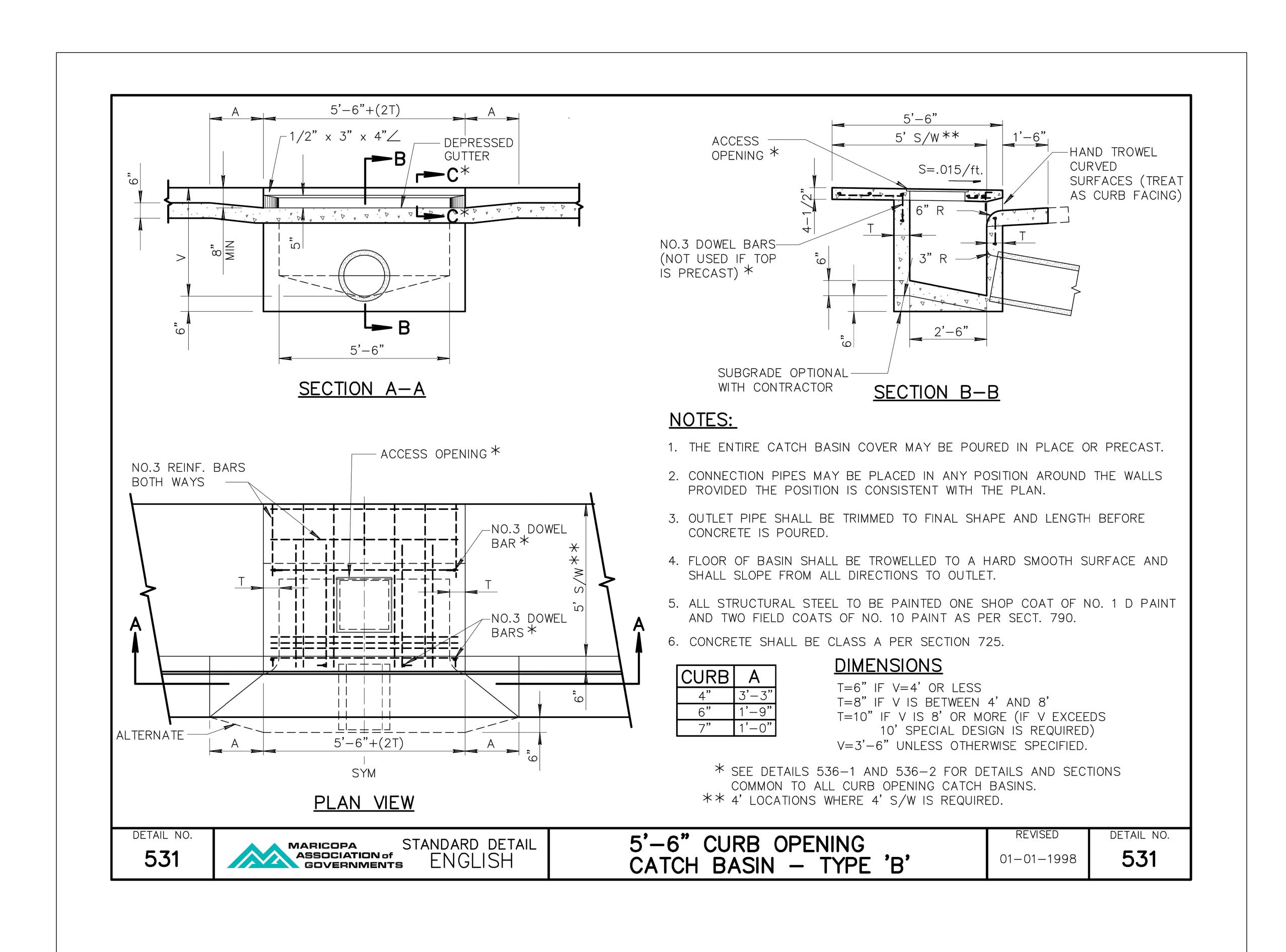
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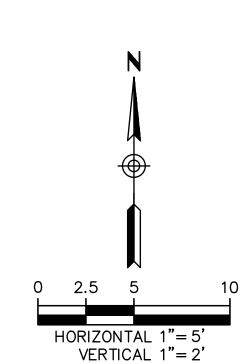
CITY OF KINGMAN ENGINEERING DEPARTMEN

KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118



DT12 **DETAILS** 22 OF 58









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EASTERN STREET CALUMET TO AIRWAY AVE

ENG 21-0001 **FILENAME** 23-221038-DT13.dwg

C.O.K. PROJECT NO.

CITY OF KINGMAN

ENGINEERING DEPARTMENT

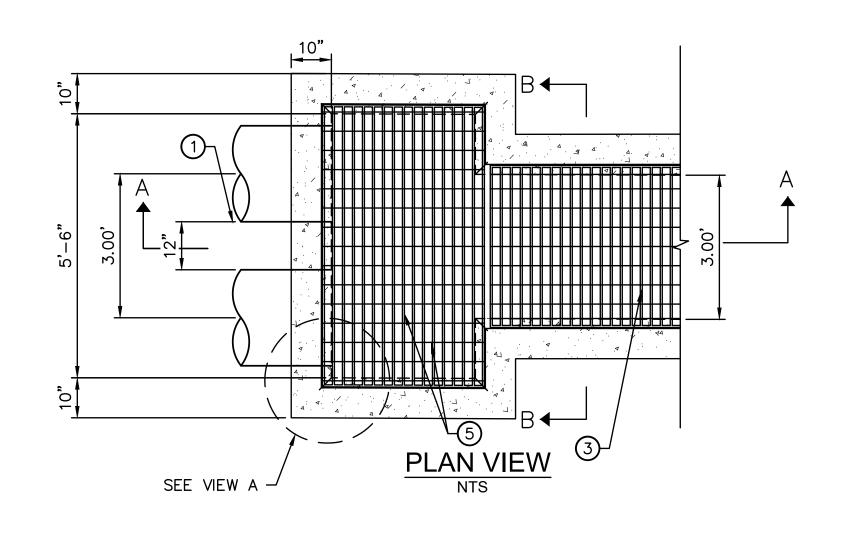
KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

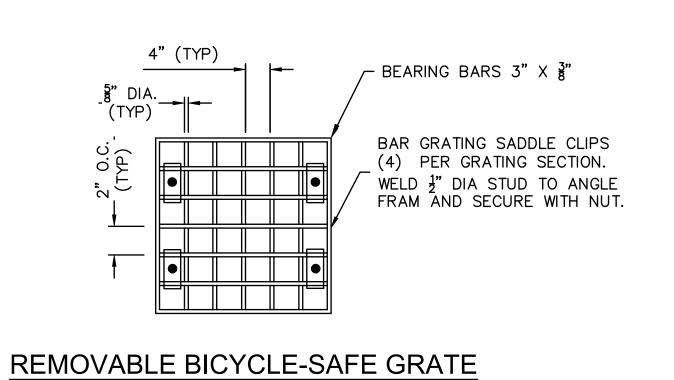


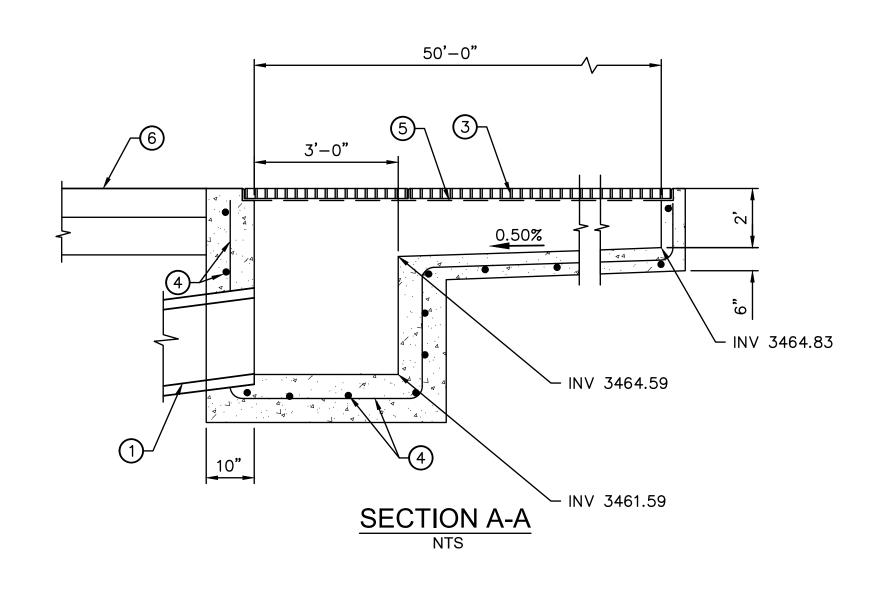
DETAILS

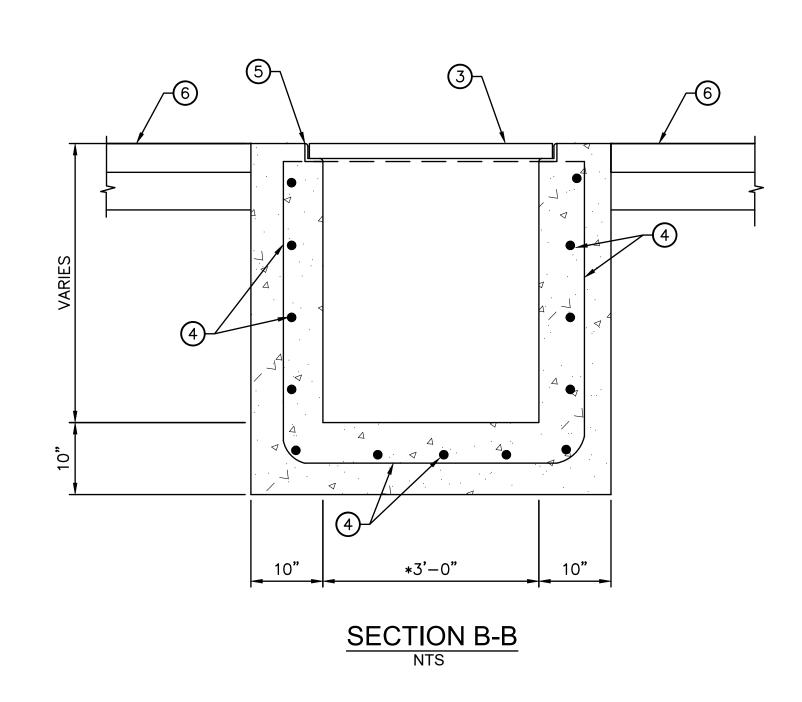
DT13 23 OF 58

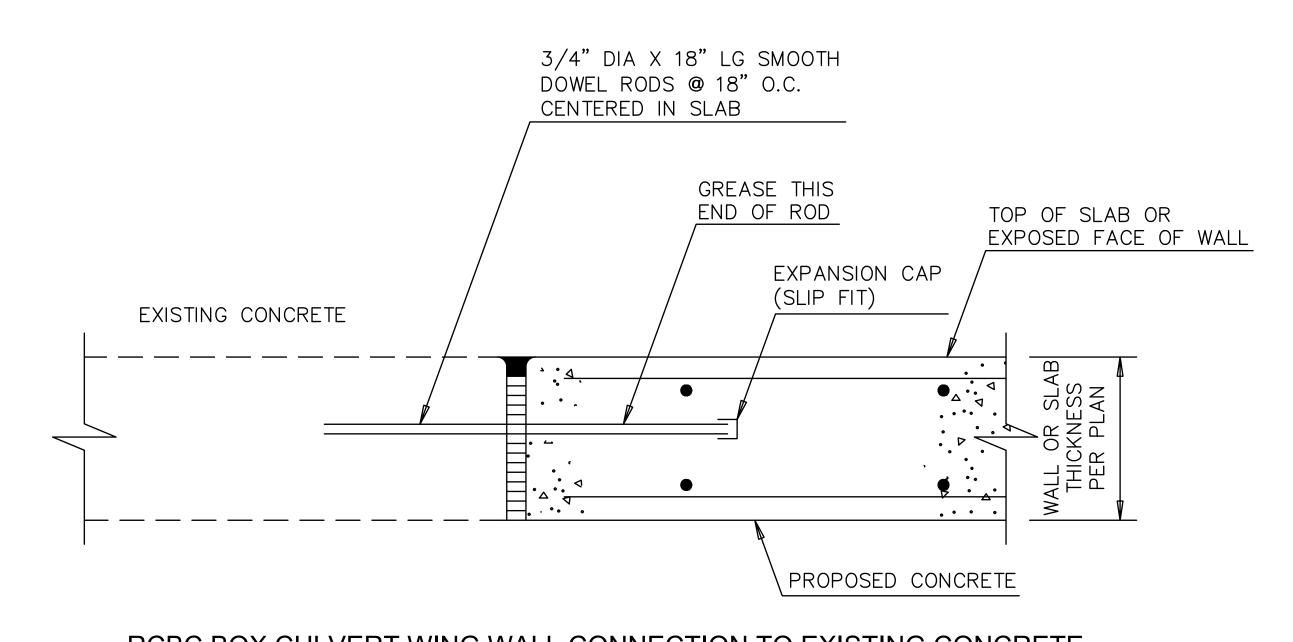
SHEET NO.











RCBC BOX CULVERT WING WALL CONNECTION TO EXISTING CONCRETE

INSIDE FACE OF CONCRETE TOTAL CITY OF THE PROPERTY OF THE PR

KEY NOTES

- 1 24" DIA RGRCP PIPE
- 2 SLOPE TO DRAIN AS SHOWN
- REMOVABLE BICYCLE SAFE GRATE PER DETAIL THIS SHEET
- 4 #4 REINF. @ 8" O.C. EA. WAY CENTERED IN WALL/SLAB
- 5 L3¹/₃ X 3 X ³/₈ (LLH) ANGULAR FRAME
- 6 AC STRUCTURAL SECTION PER CIVIL PLANS

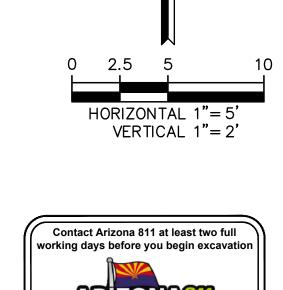
NOTES

- Hot-Dip Galvanize the Grate and frame after Fabrication in See Roadway Plans for Location in Accordance with AASHTO Designation M 111.
- See Roadway Plans for Location and Number of Grates Required.
- 3. Weld all Joints with a ¼ inch Fillet Weld unless Noted Otherwise
- 4. See Civil Drawings for Location of Trench Drain.
- 5. Touch up Metal (as Required) with A Rust Inhibitor Primer over
- Metal and Finish (2) Coats of Zinc Rich Primer.
- Inside Face of Concrete to Inside Face of Concrete

DESIGN DATA

HL-93 in Accordance with AASHTO LFRD Bridge Design and Interim Specifications.

Structural Steel: Fy =36,000 psi. Welding: E70 Electrodes



Call 811 or click Arizona811.com



EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO.
ENG 21-0001
FILENAME

25-221038-DT14.dwg

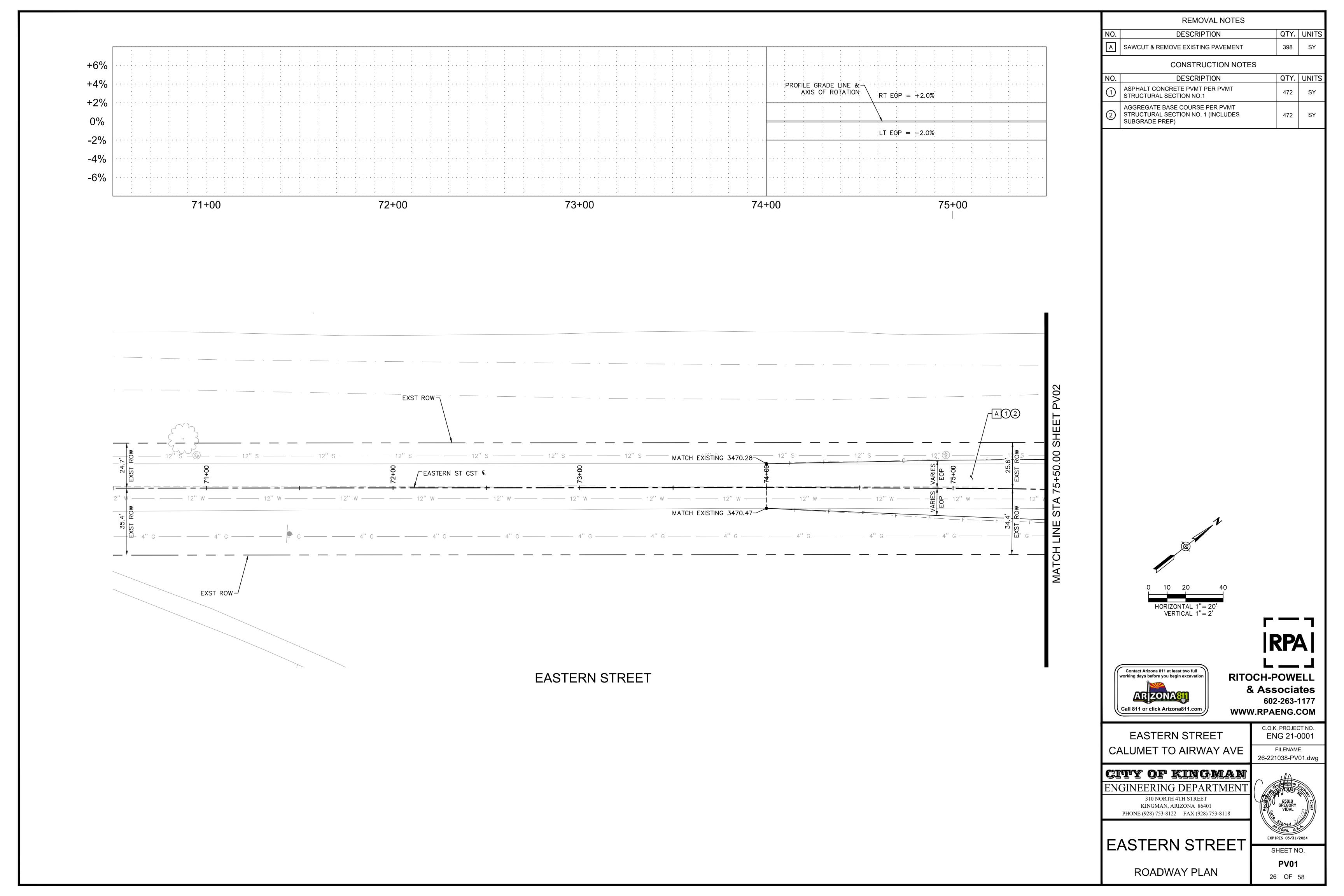
CITY OF KINGMANENGINEERING DEPARTMENT

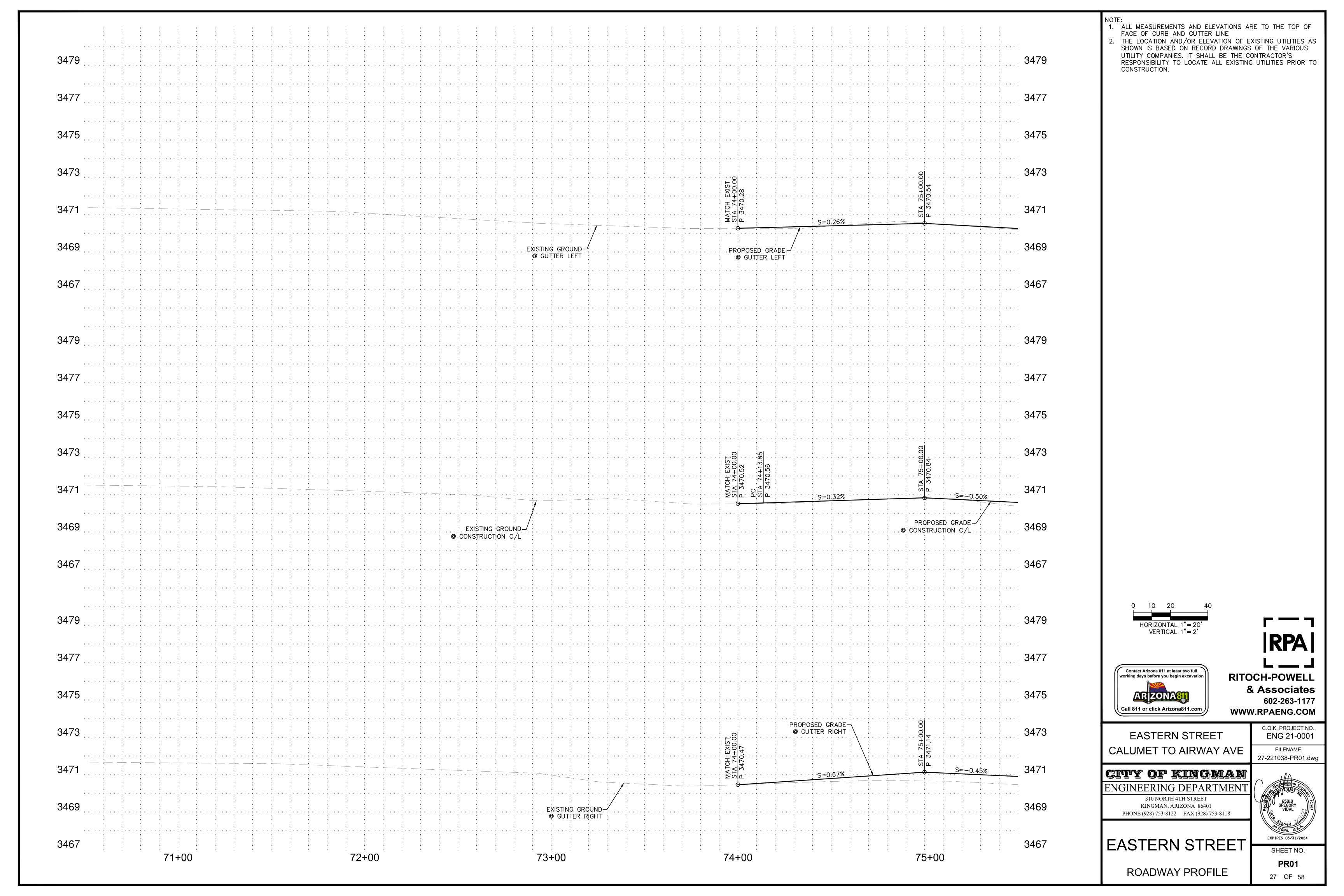
310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

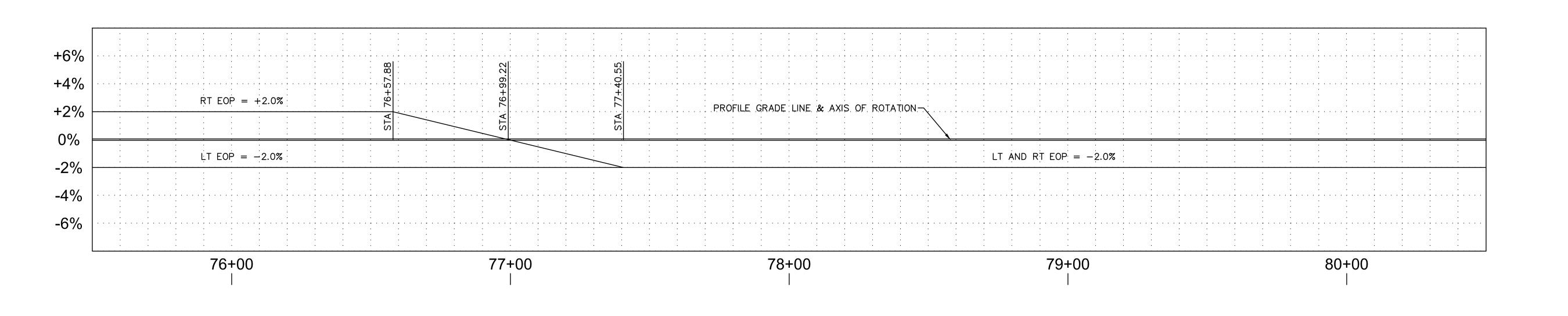


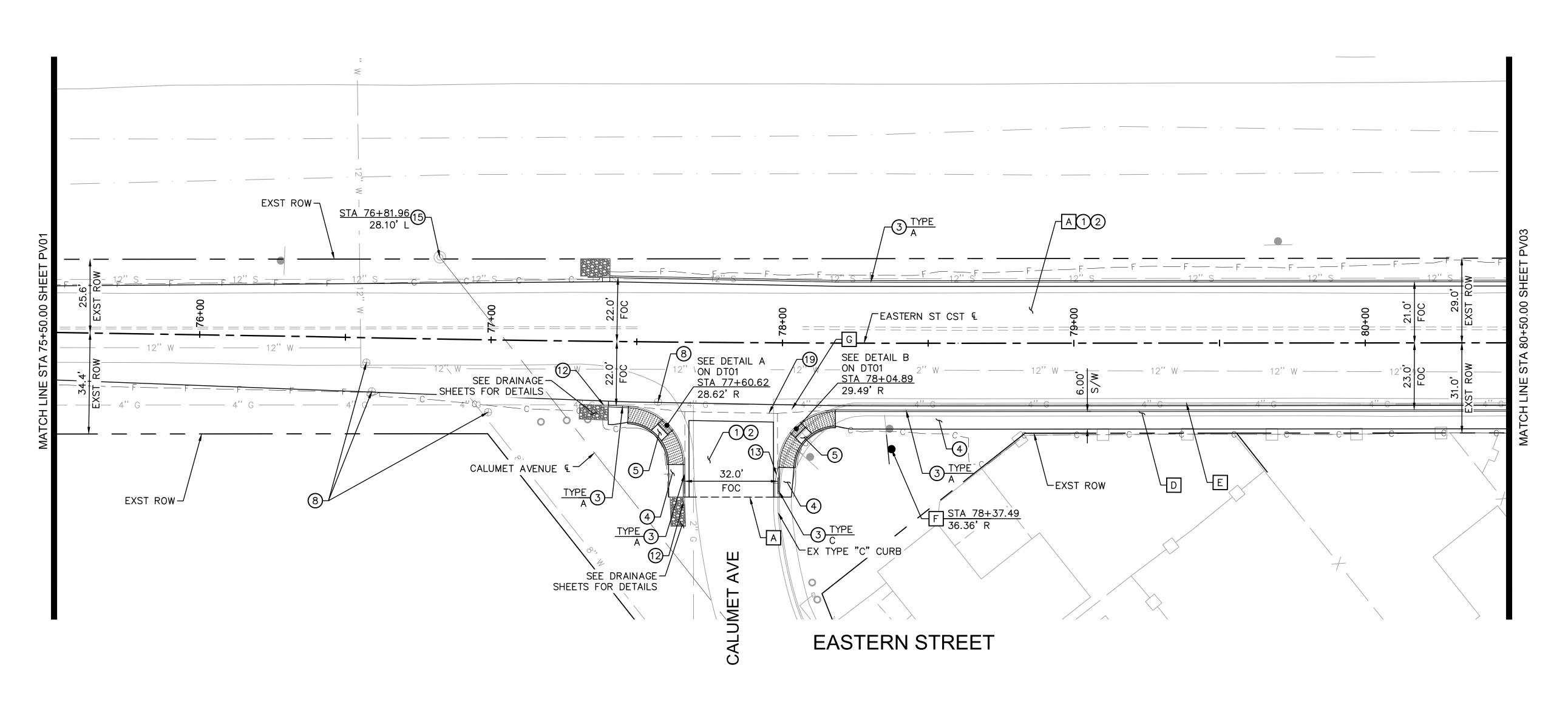
DRAINAGE DETAILS

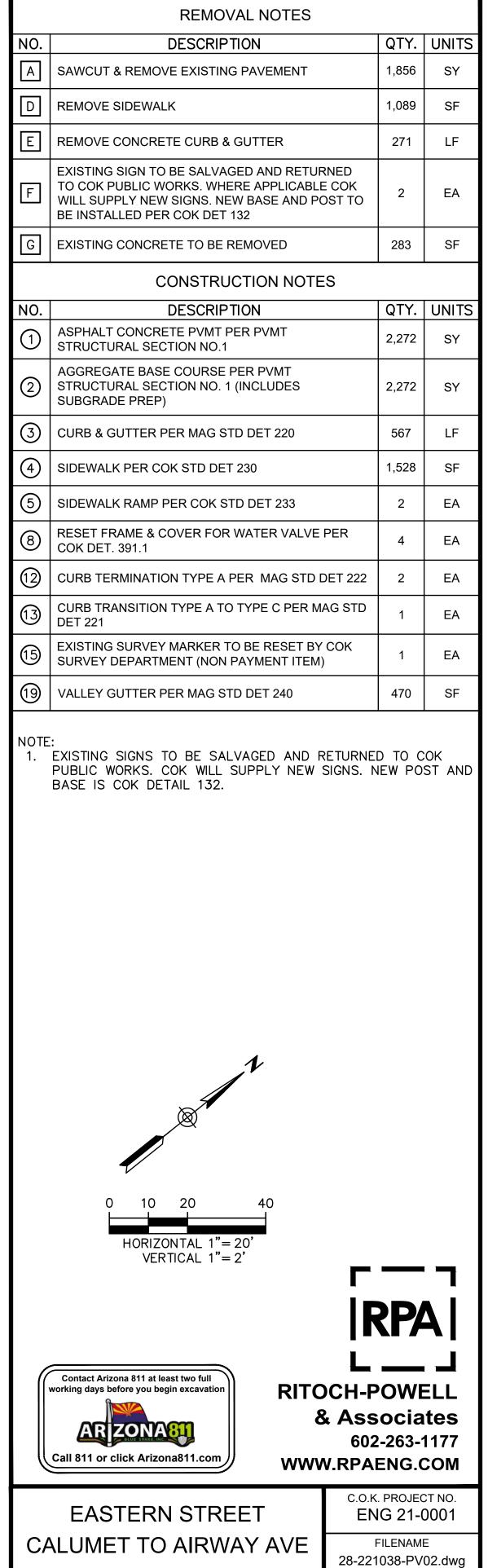
SHEET NO. **DT14**25 OF 58











CITY OF KINGMAN

ENGINEERING DEPARTMENT

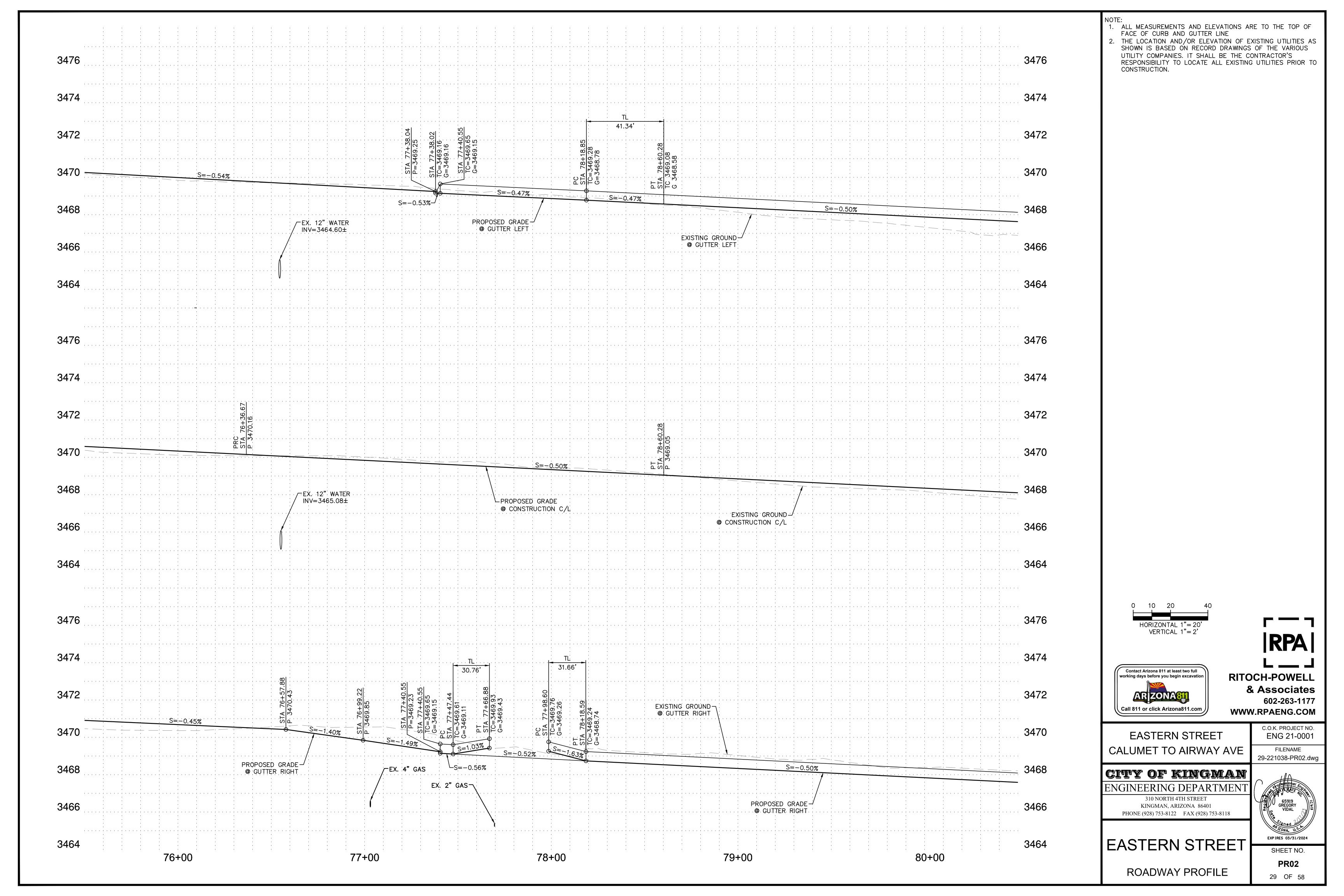
310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

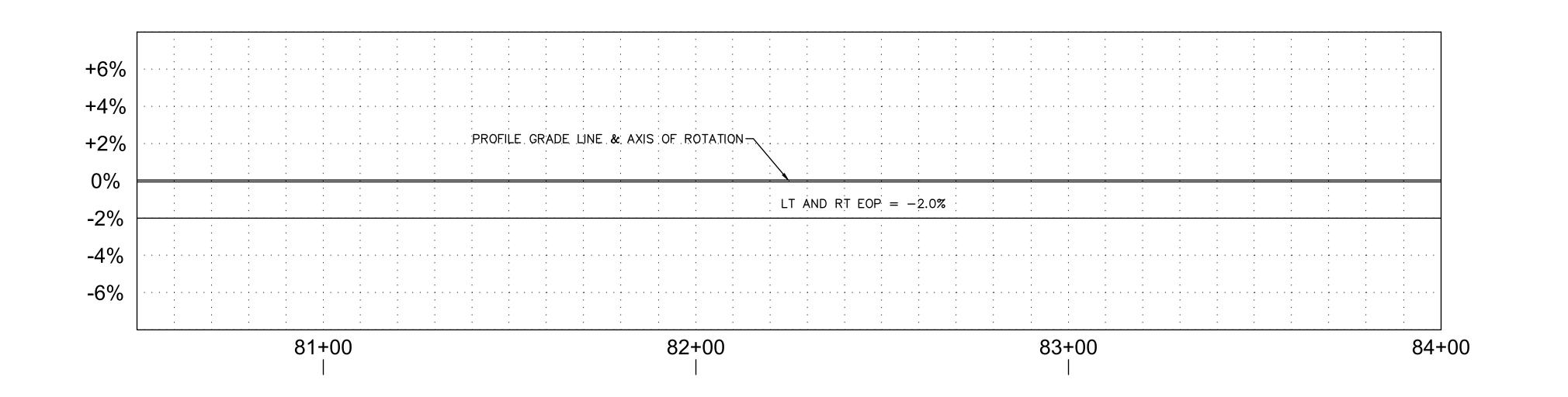
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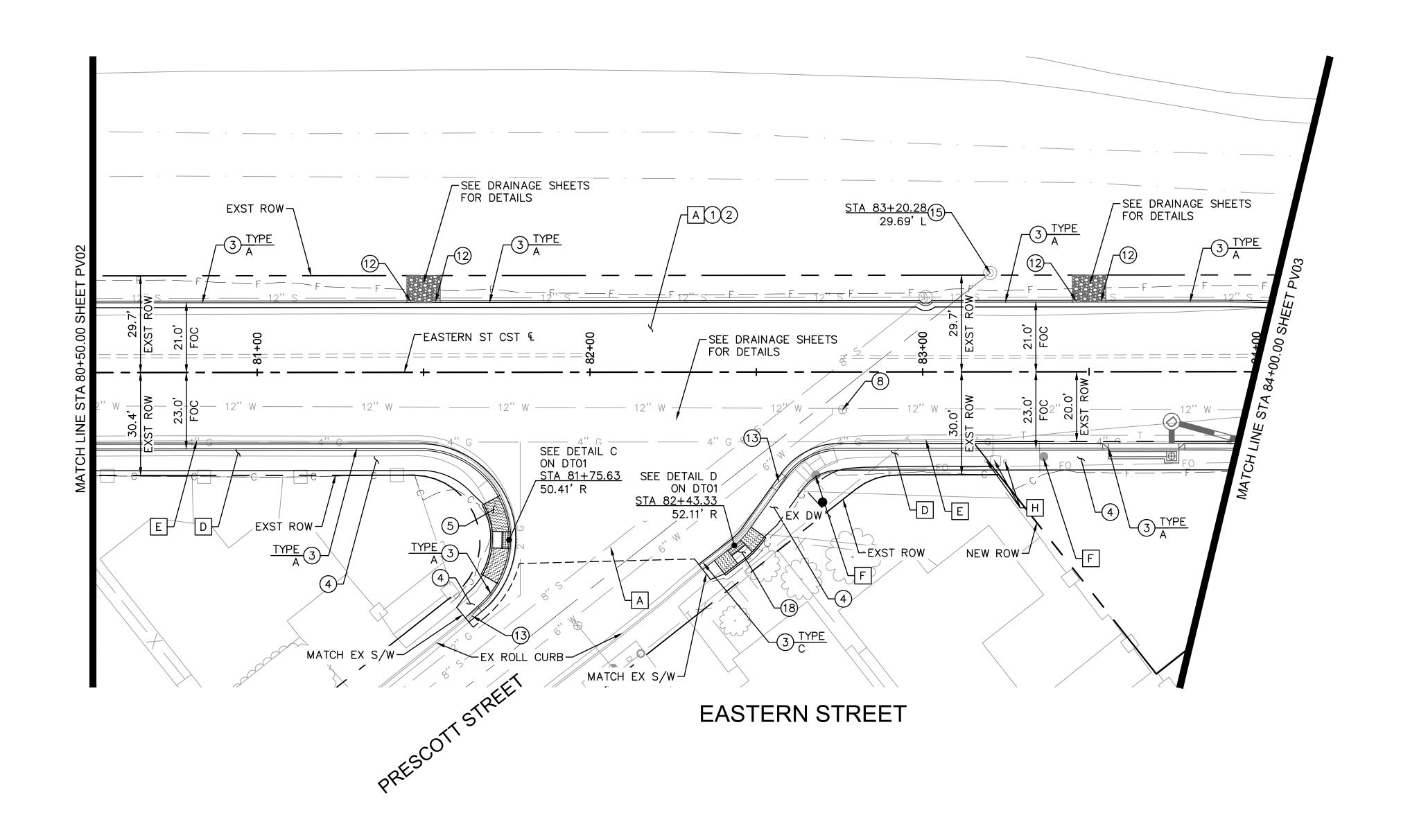
ROADWAY PLAN

PV02
28 OF 58

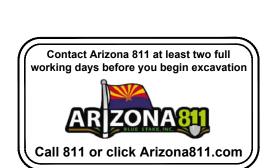
EXPIRES 03/31/2024







	REMOVAL NOTES										
0.	DESCRIPTION	QTY.	UNITS								
A	SAWCUT & REMOVE EXISTING PAVEMENT	1,745	SY								
	REMOVE SIDEWALK	1,206	SF								
E	REMOVE CONCRETE CURB & GUTTER	276	LF								
F	EXISTING SIGN TO BE SALVAGED AND RETURNED TO COK PUBLIC WORKS. WHERE APPLICABLE COK WILL SUPPLY NEW SIGNS. NEW BASE AND POST TO BE INSTALLED PER COK DET 132	1	EA								
Н	RELOCATE EXISTING UTILITY BOX	2	EA								
	CONSTRUCTION NOTES										
0.	DESCRIPTION	QTY.	UNITS								
1)	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO.1	1,908	SY								
2)	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE PREP)	1,908	SY								
3)	CURB & GUTTER PER MAG STD DET 220	697	LF								
4)	SIDEWALK PER COK STD DET 230	1,743	SF								
5)	SIDEWALK RAMP PER COK STD DET 233	1	EA								
8)	RESET FRAME & COVER FOR WATER VALVE PER COK DET. 391.1	1	EA								
2	CURB TERMINATION TYPE A PER MAG STD DET 222	4	EA								
(3)	CURB TRANSITION TYPE A TO TYPE C PER MAG STD DET 221	2	EA								
5)	EXISTING SURVEY MARKER TO BE RESET BY COK SURVEY DEPARTMENT (NON PAYMENT ITEM)	1	EA								
8	SIDEWALK RAMP PER MODIFIED COK DET 236	1	EA								
	0 10 20 40 HORIZONTAL 1"= 20' VERTICAL 1"= 2'	P									
	Contact Arizona 811 at least two full working days before you begin excavation	_									
	& Ass	ocia	เษร								



& Associates 602-263-1177 WWW.RPAENG.COM

EASTERN STREET CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO. ENG 21-0001 FILENAME

30-221038-PV03.dwg

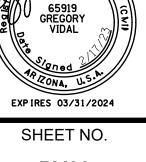
CITY OF KINGMAN

ENGINEERING DEPARTMENT

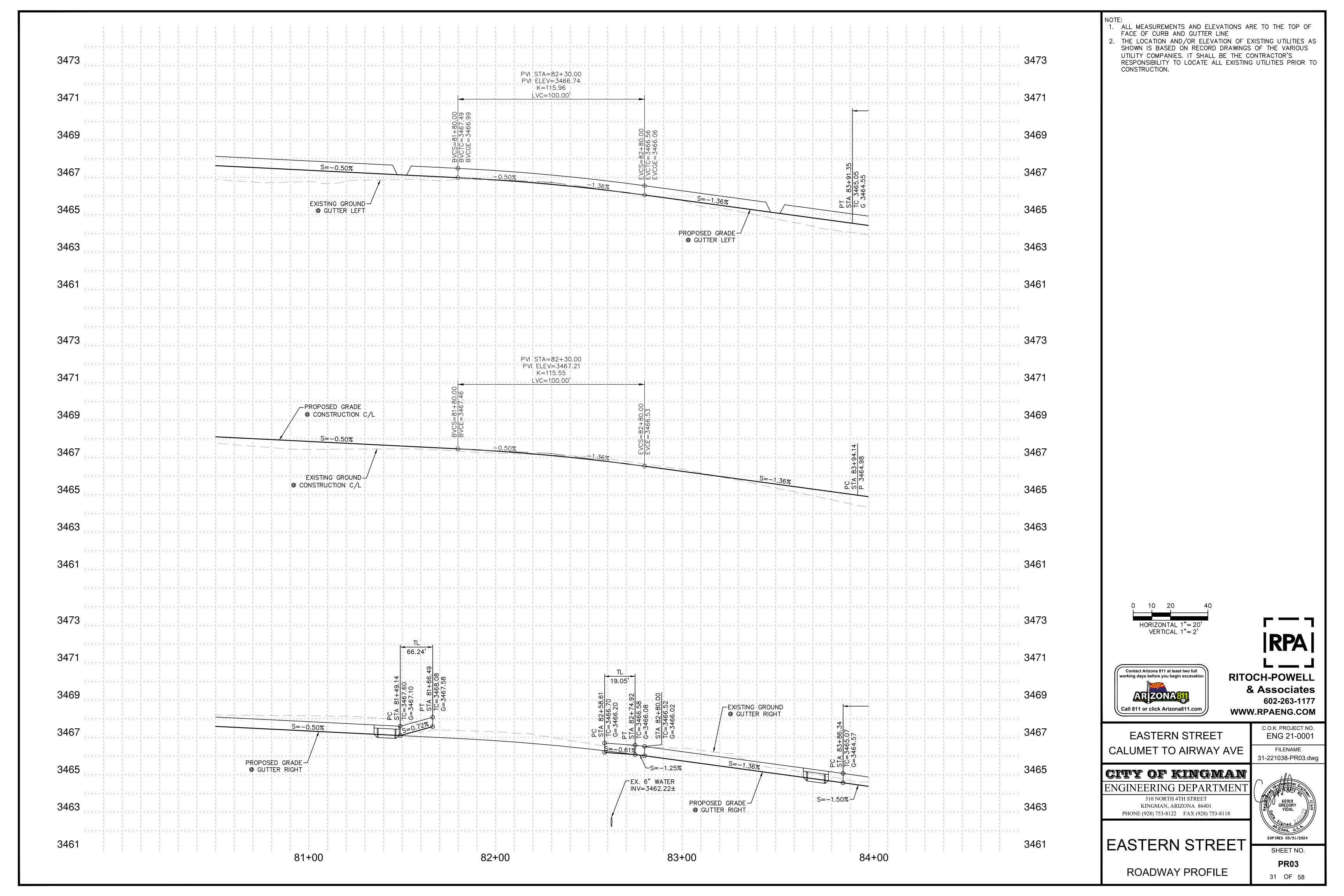
310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

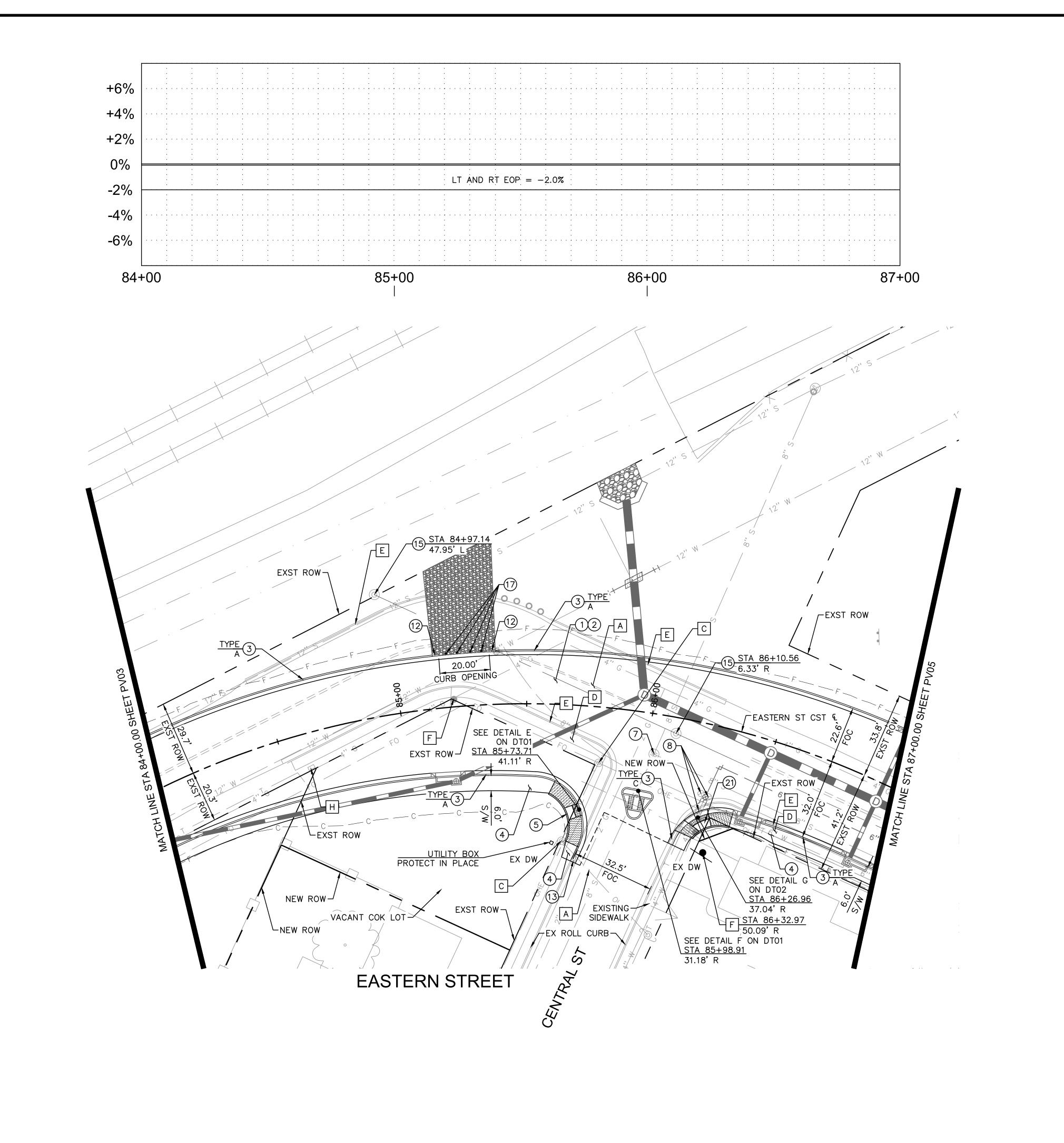
EASTERN STREET

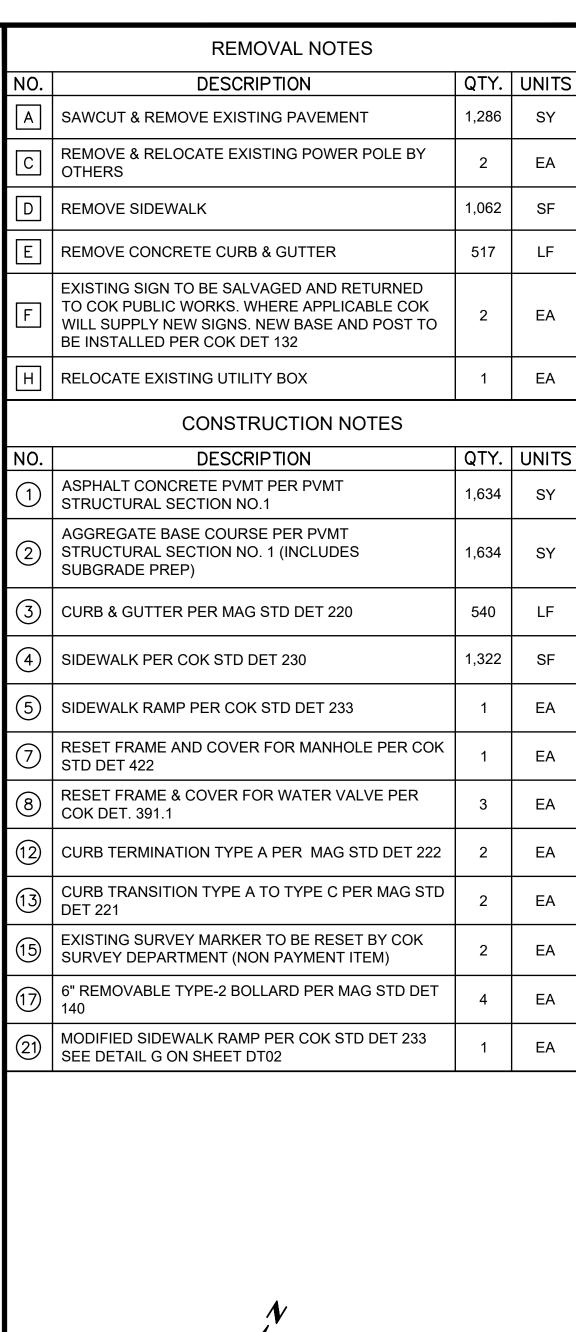
ROADWAY PLAN

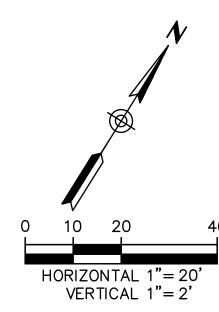


PV03 30 OF 58











EASTERN STREET CALUMET TO AIRWAY AVE C.O.K. PROJECT NO. ENG 21-0001

FILENAME 32-221038-PV04.dwg

City of Kingman

ENGINEERING DEPARTMEN

310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

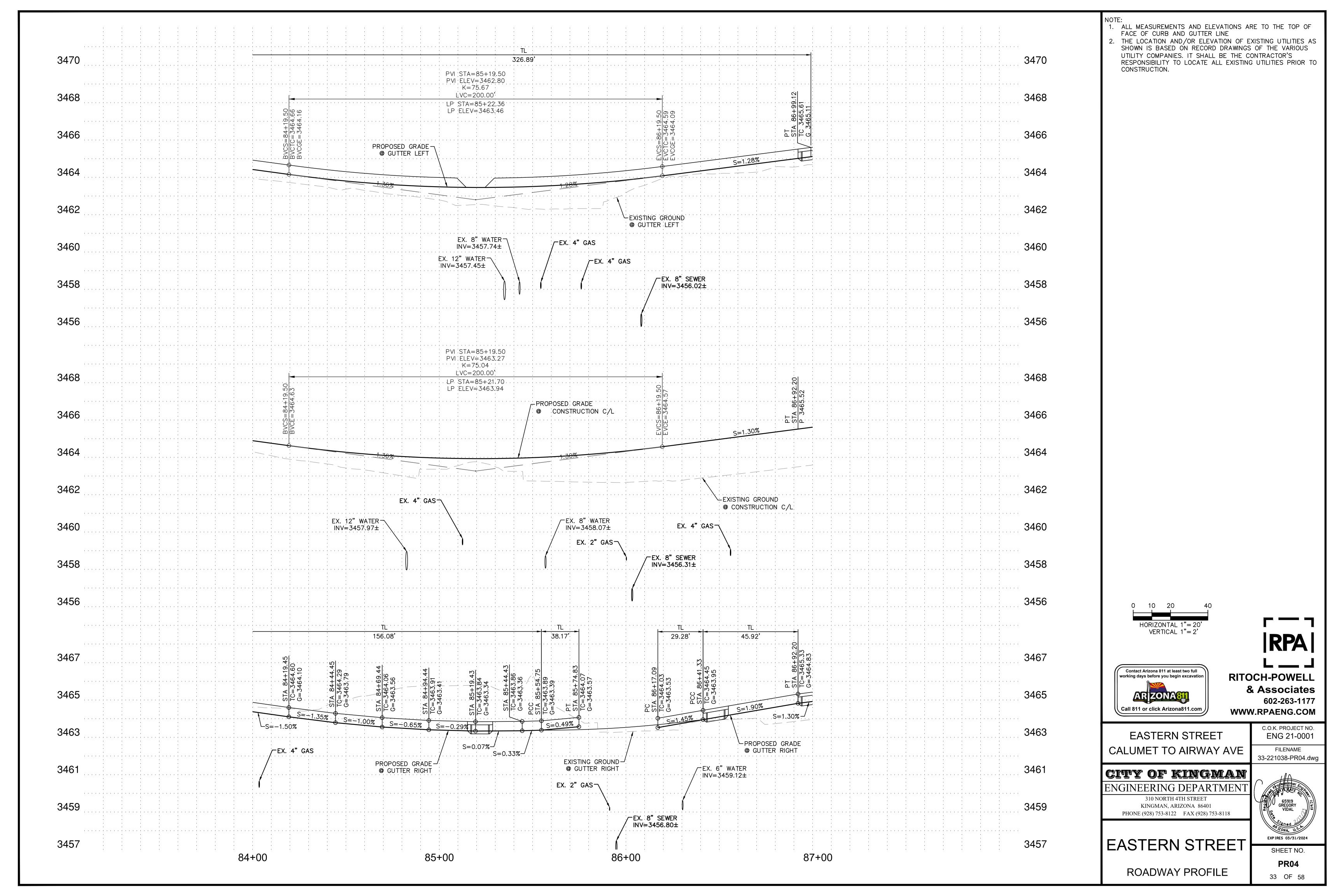
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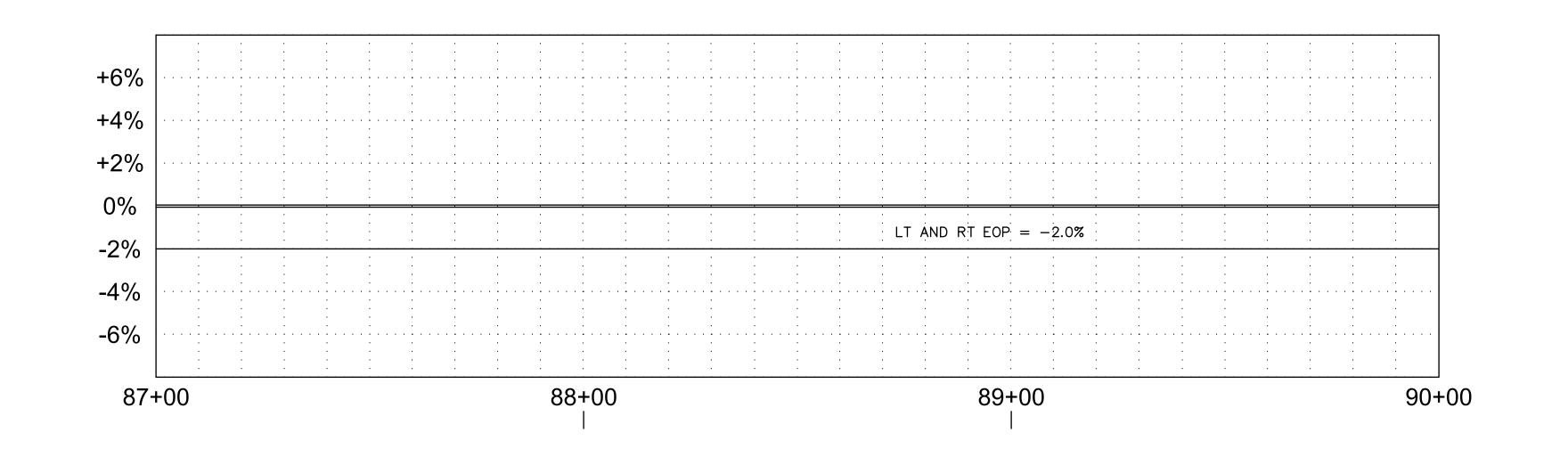
ROADWAY PLAN

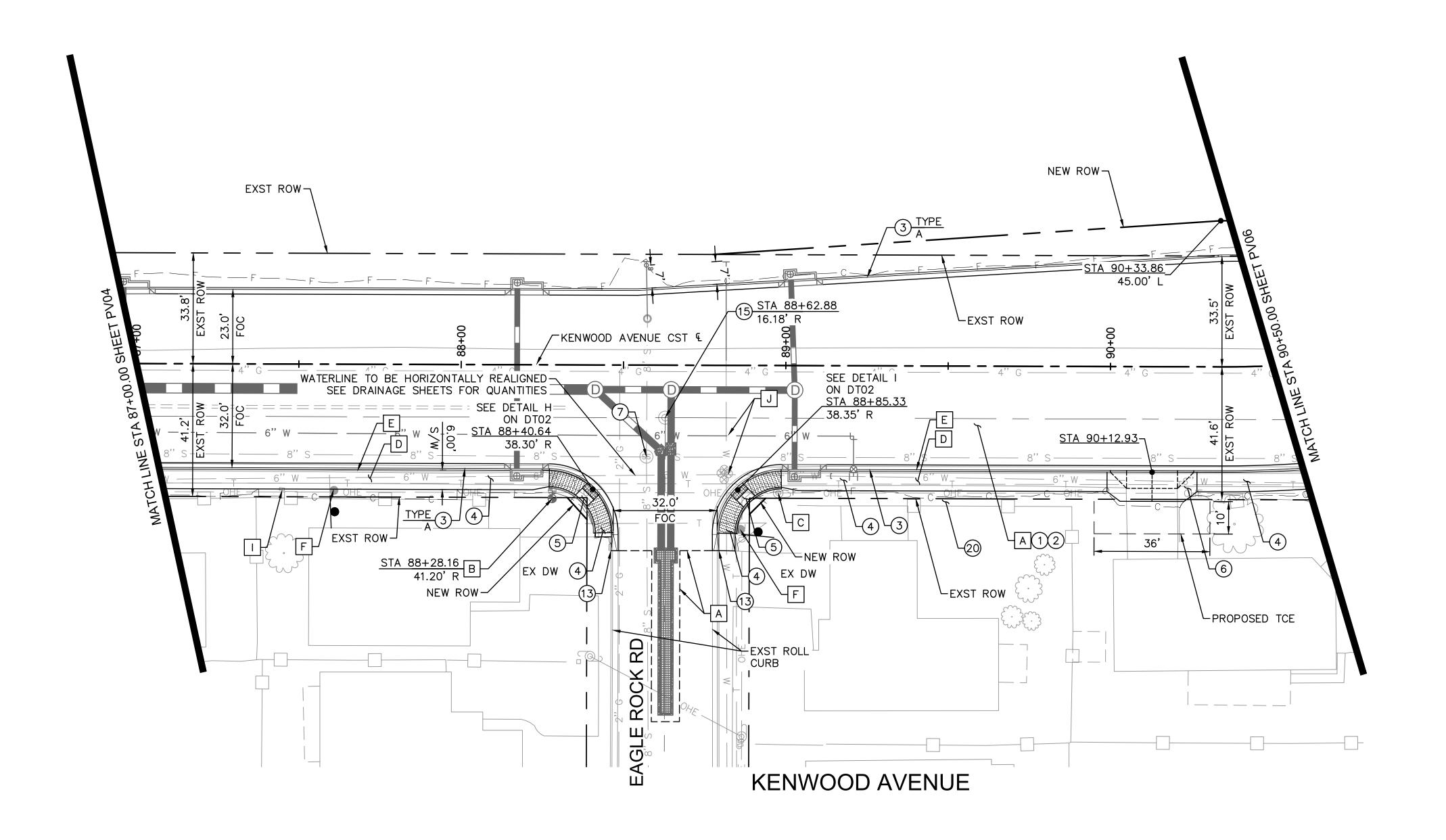
PV04 32 OF 58

EXPIRES 03/31/2024

SHEET NO.









EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO.
ENG 21-0001

FILENAME

34-221038-PV05.dwg

CITY OF KINGMAN

ENGINEERING DEPARTMEN'
310 NORTH 4TH STREET

EASTERN STREET

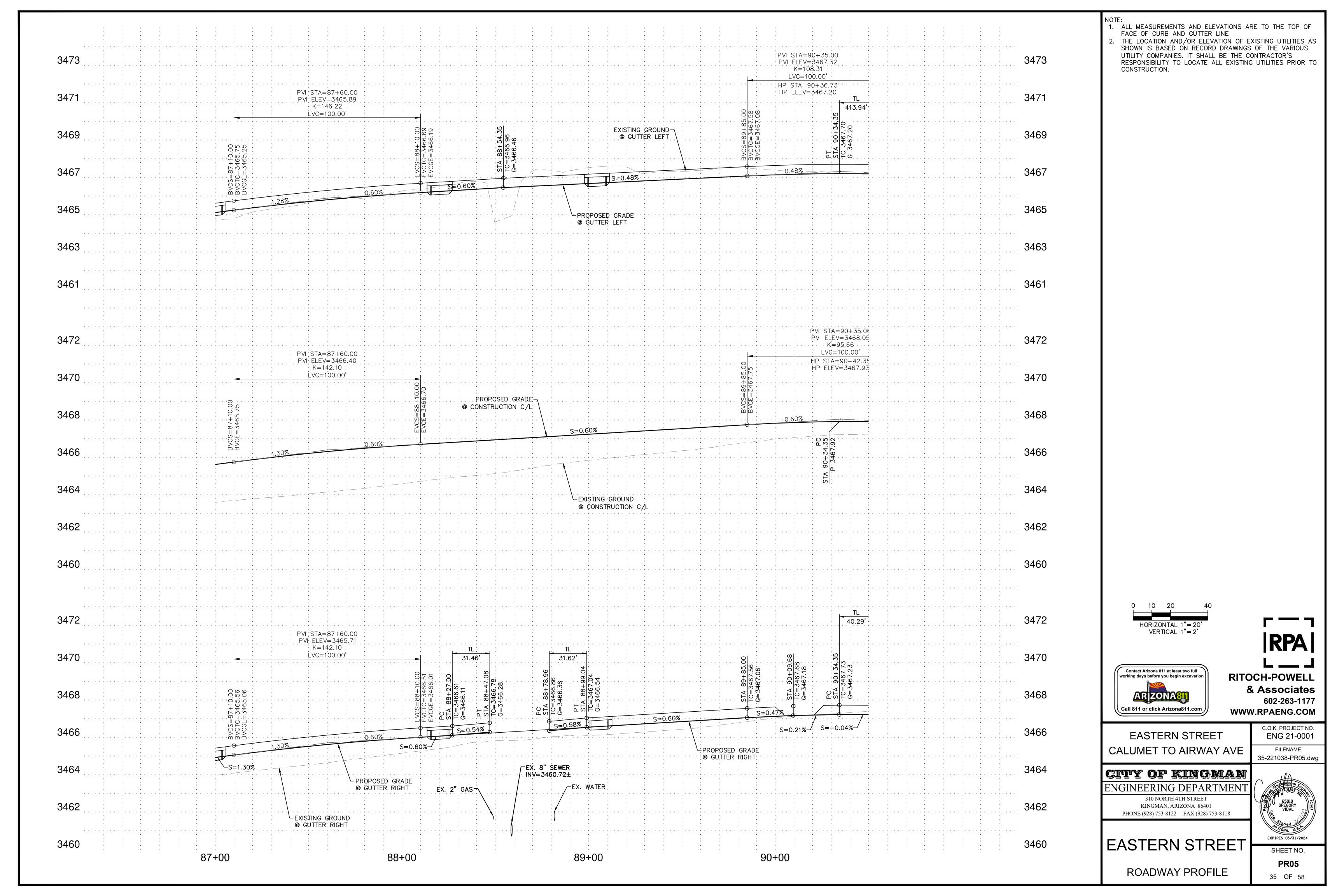
KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

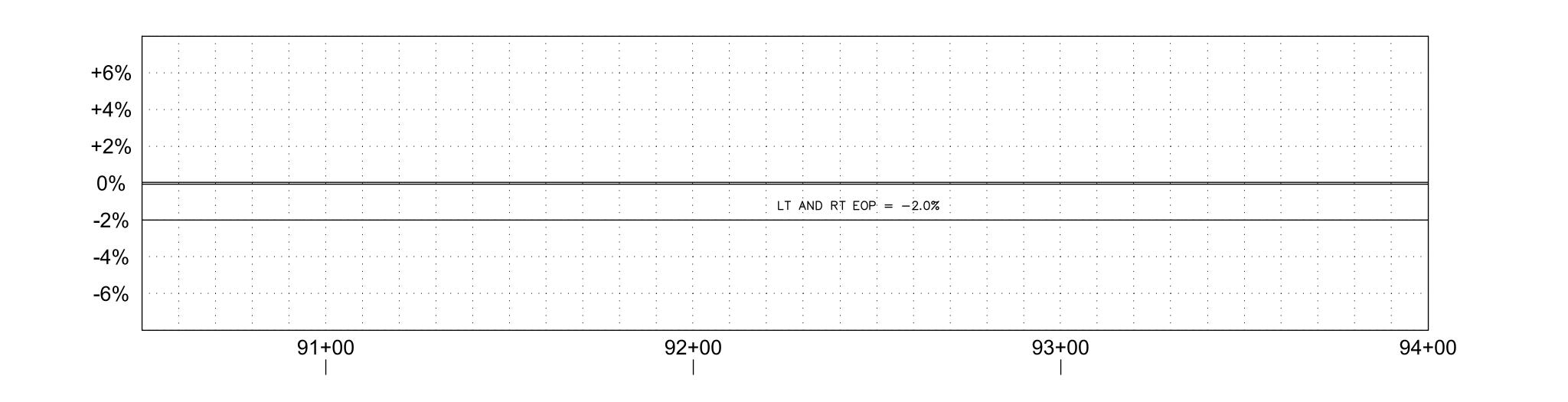
ROADWAY PLAN

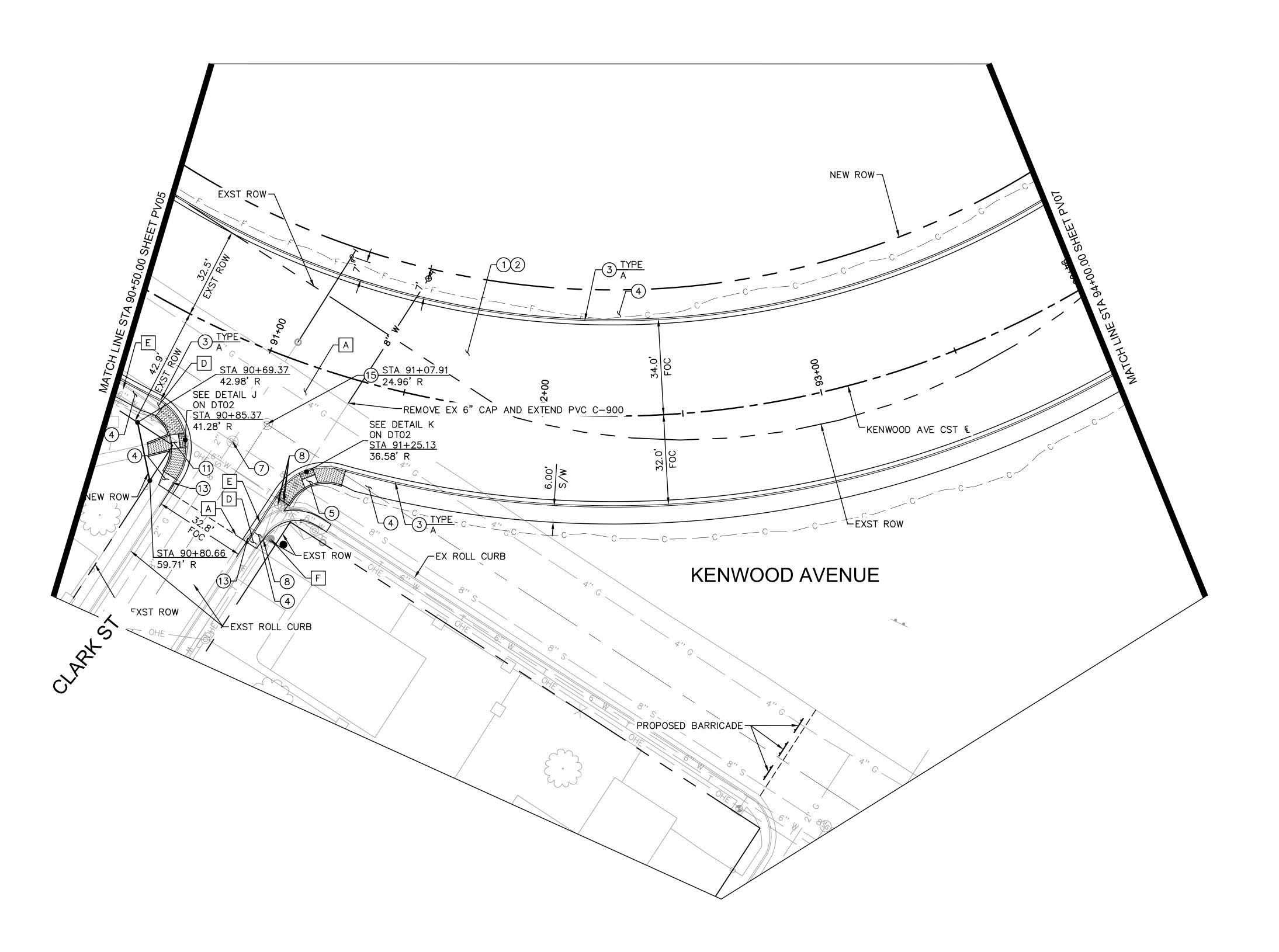
PV05

34 OF 58

EXPIRES 03/31/2024



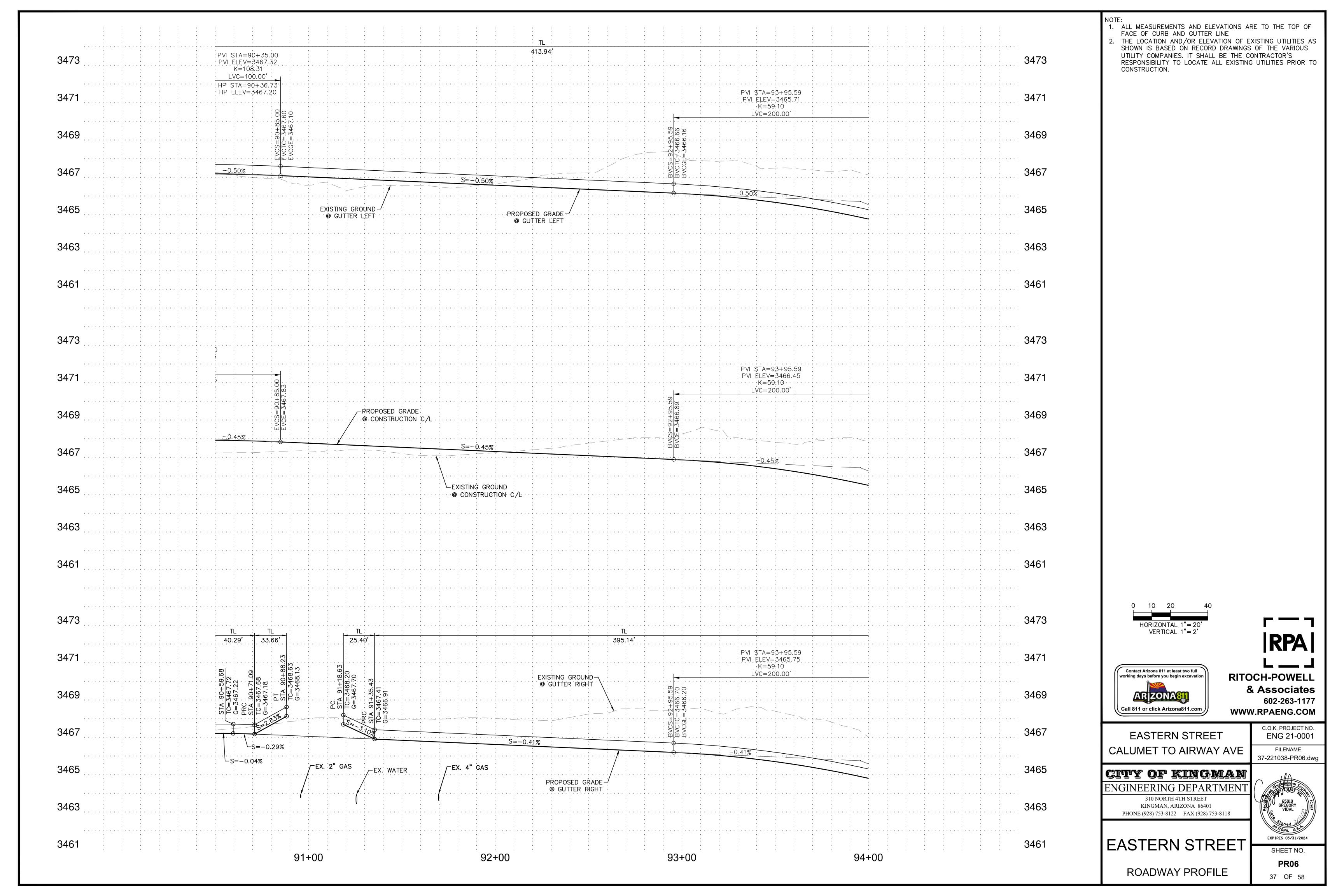


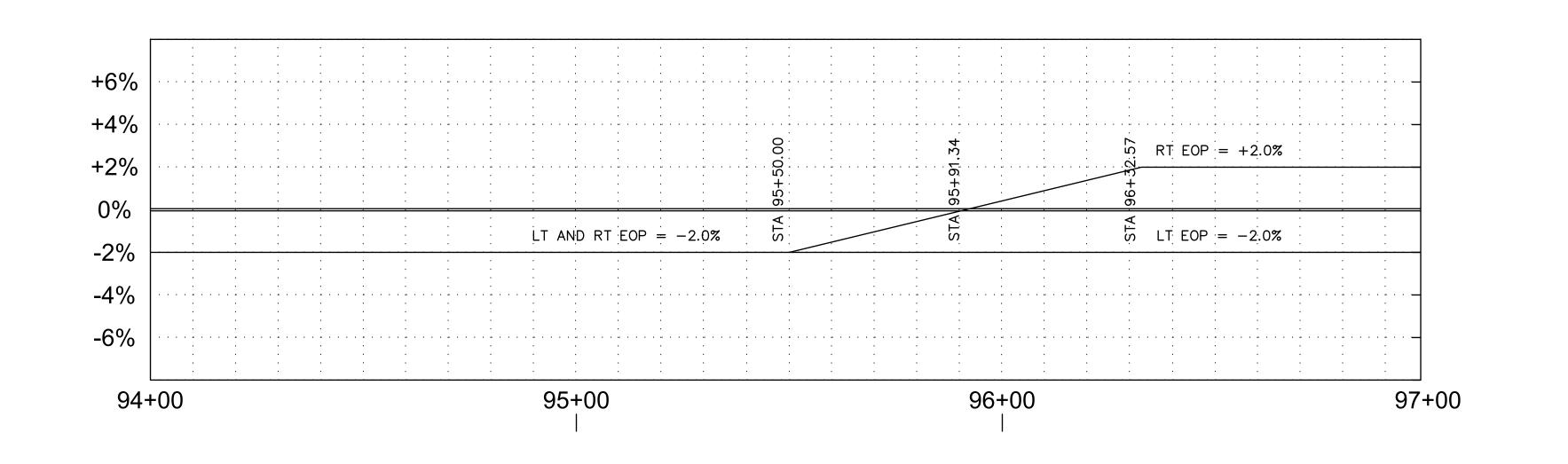


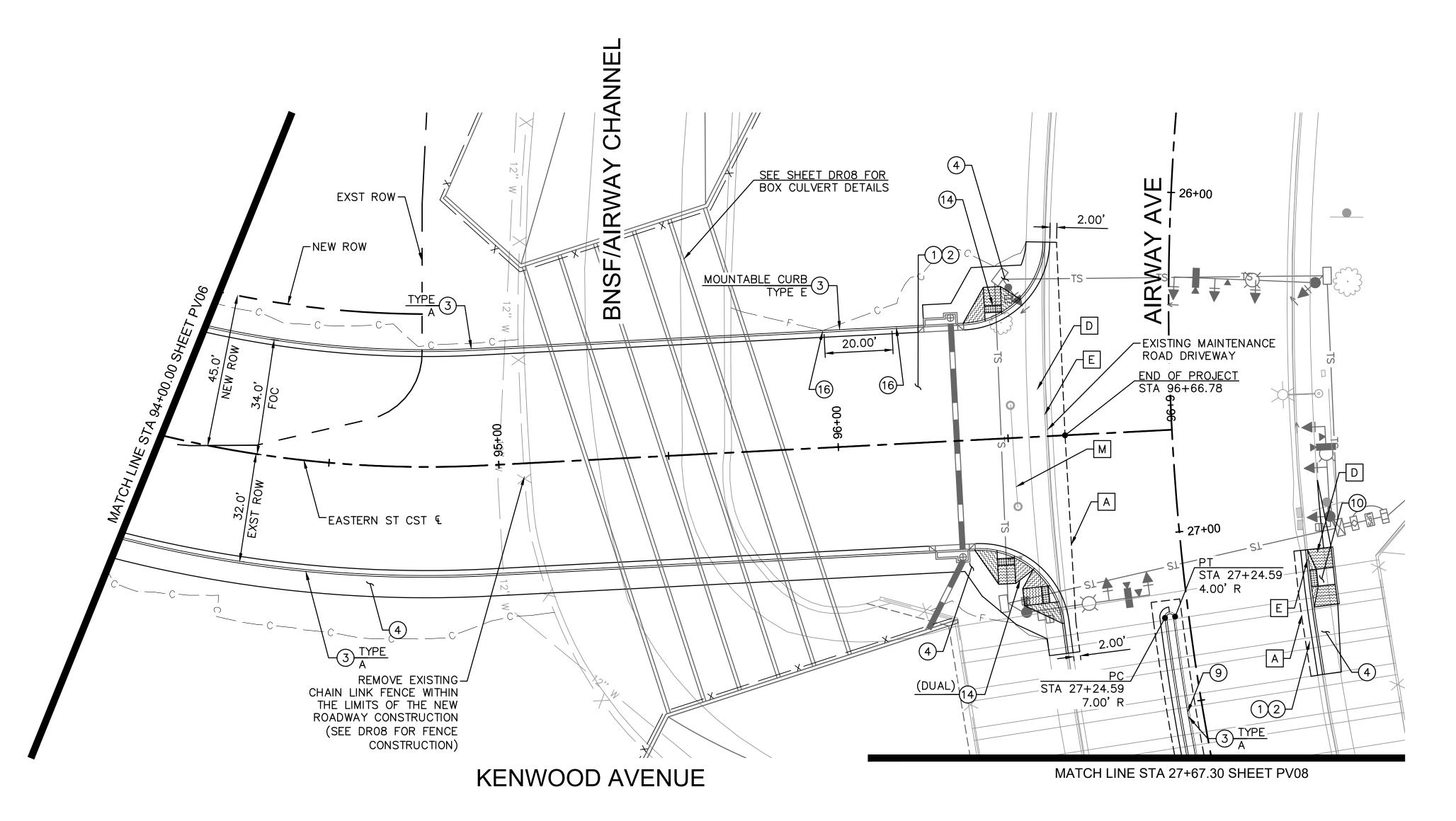
	REMOVAL NOTES							
). ¬	DESCRIPTION	QTY.	UNITS					
_ ¬	SAWCUT & REMOVE EXISTING PAVEMENT	590	SY					
] - 	REMOVE SOMERETE OURD & GUITTER	349	SF					
_	REMOVE CONCRETE CURB & GUTTER EXISTING SIGN TO BE SALVAGED AND RETURNED	88	LF					
	TO COK PUBLIC WORKS. WHERE APPLICABLE CO WILL SUPPLY NEW SIGNS. NEW BASE AND POST BE INSTALLED PER COK DET 132	K 1	EA					
	CONSTRUCTION NOTES							
).	DESCRIPTION ACRUMENT CONCRETE BY MATERIES	QTY.	UNITS					
)	ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO.1	2,578	SY					
)	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE PREP)	2,578	SY					
)	CURB & GUTTER PER MAG STD DET 220	713	LF					
)	SIDEWALK PER COK STD DET 230	1,994	SF					
)	SIDEWALK RAMP PER COK STD DET 233	1	EA					
)	RESET FRAME AND COVER FOR MANHOLE PER (STD DET 422	COK 1	EA					
)	RESET FRAME & COVER FOR WATER VALVE PER COK DET. 391.1	1	EA					
)	DRIVEWAY/RAMP PER DETAIL SHEET DT02	168	SF					
	CURB TRANSITION TYPE A TO TYPE C PER MAG S DET 221	STD 2	EA					
	EXISTING SURVEY MARKER TO BE RESET BY CONSURVEY DEPARTMENT (NON PAYMENT ITEM)	1	EA					
	0 10 20 40 HORIZONTAL 1"= 20' VERTICAL 1"= 2'	r —	' ¬					
	Contact Arizona 811 at least two full working days before you begin excavation RITOCH-POWELL & Associates 602-263-1177 WWW.RPAENG.COM							
), (EASTERN STREET ALUMET TO AIRWAY AVE	C.O.K. PROJEC ENG 21-C FILENAM	0001					
		6-221038-PV	06.dwg					
7(GINEERING DEPARTMENT 310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118 ASTERN STREET	65919 GREGORY VIDAL APIZONA, USE EXPIRES 03/31/	VIDAL Signed RONA, U.S.					
_ <i>_f</i>		SHEET N						
	ROADWAY PLAN		PV06					

ROADWAY PLAN

36 OF 58



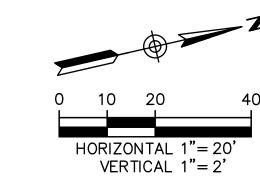




	CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY.	UNITS
A	SAWCUT & REMOVE EXISTING PAVEMENT	93	SY
D	REMOVE SIDEWALK	87	SF
E	REMOVE CONCRETE CURB & GUTTER	205	LF
М	REMOVE EXISTING ACCESS GATE	1	EA

CONSTRUCTION NOTES

NO. 1	DESCRIPTION ASPHALT CONCRETE PVMT PER PVMT STRUCTURAL SECTION NO.1	QTY. 1,942	UNITS
1		1 942	
	611(66161()(E 6E61161(1(6.1	1,042	SY
2	AGGREGATE BASE COURSE PER PVMT STRUCTURAL SECTION NO. 1 (INCLUDES SUBGRADE PREP)	1,942	SY
3	CURB & GUTTER PER MAG STD DET 220	545	LF
4	SIDEWALK PER COK STD DET 230	2,198	SF
9	SINGLE CURB PER MAG STD DET 222 TYPE A	45	LF
10	SIDEWALK RAMP PER MAG STD DET 238-2	1	EA
14)	SIDEWALK RAMP PER MAG STD DET 237-1	2	EA
16)	CURB TRANSITION TYPE A TO TYPE E PER MAG STD DET 220-2	2	EA







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EASTERN STREET
CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO. ENG 21-0001

602-263-1177

FILENAME 38-221038-PV07.dwg

CITY OF KINGMANENGINEERING DEPARTMENT

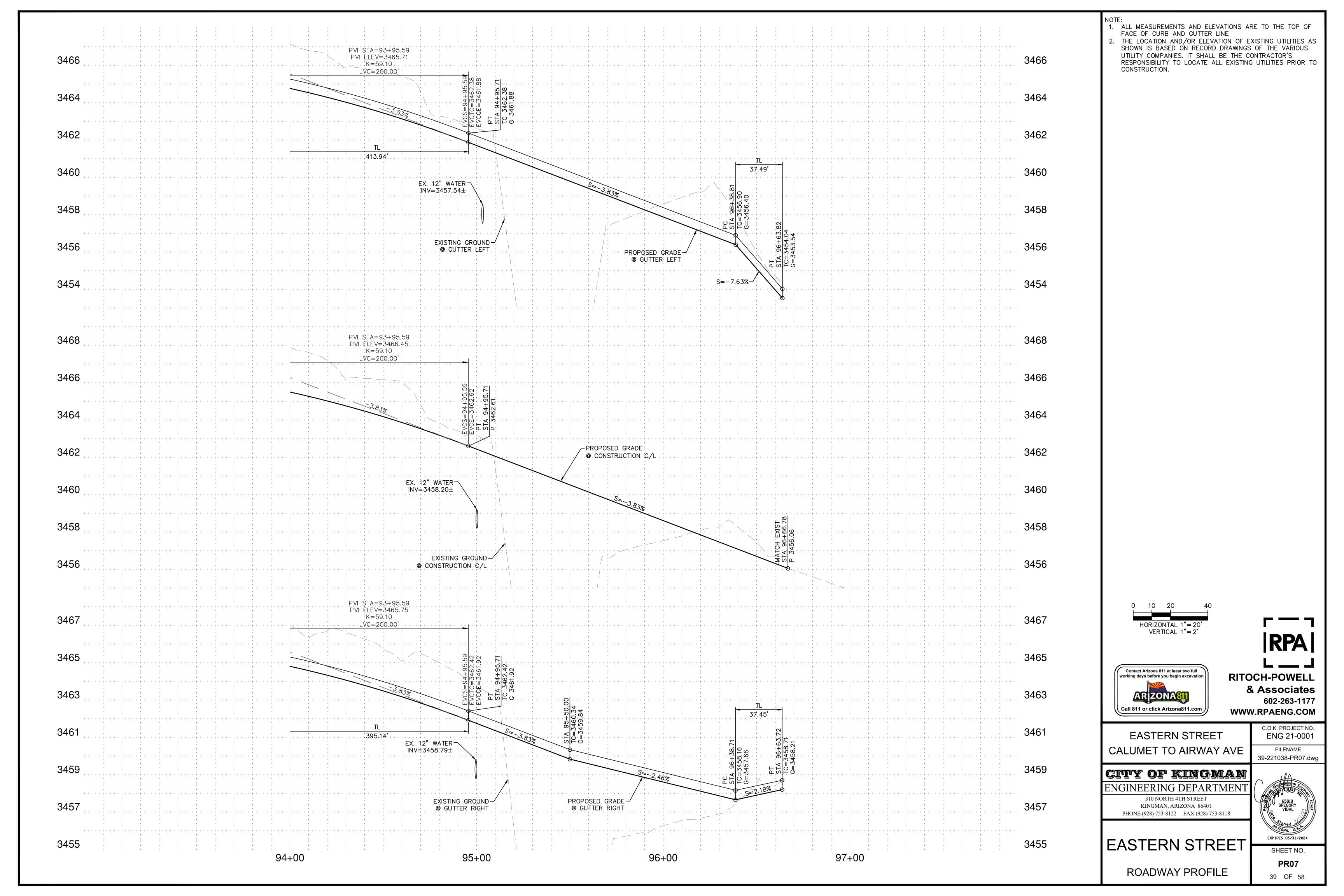
310 NORTH 4TH STREET
KINGMAN, ARIZONA 86401
PHONE (928) 753-8122 FAX (928) 753-8118

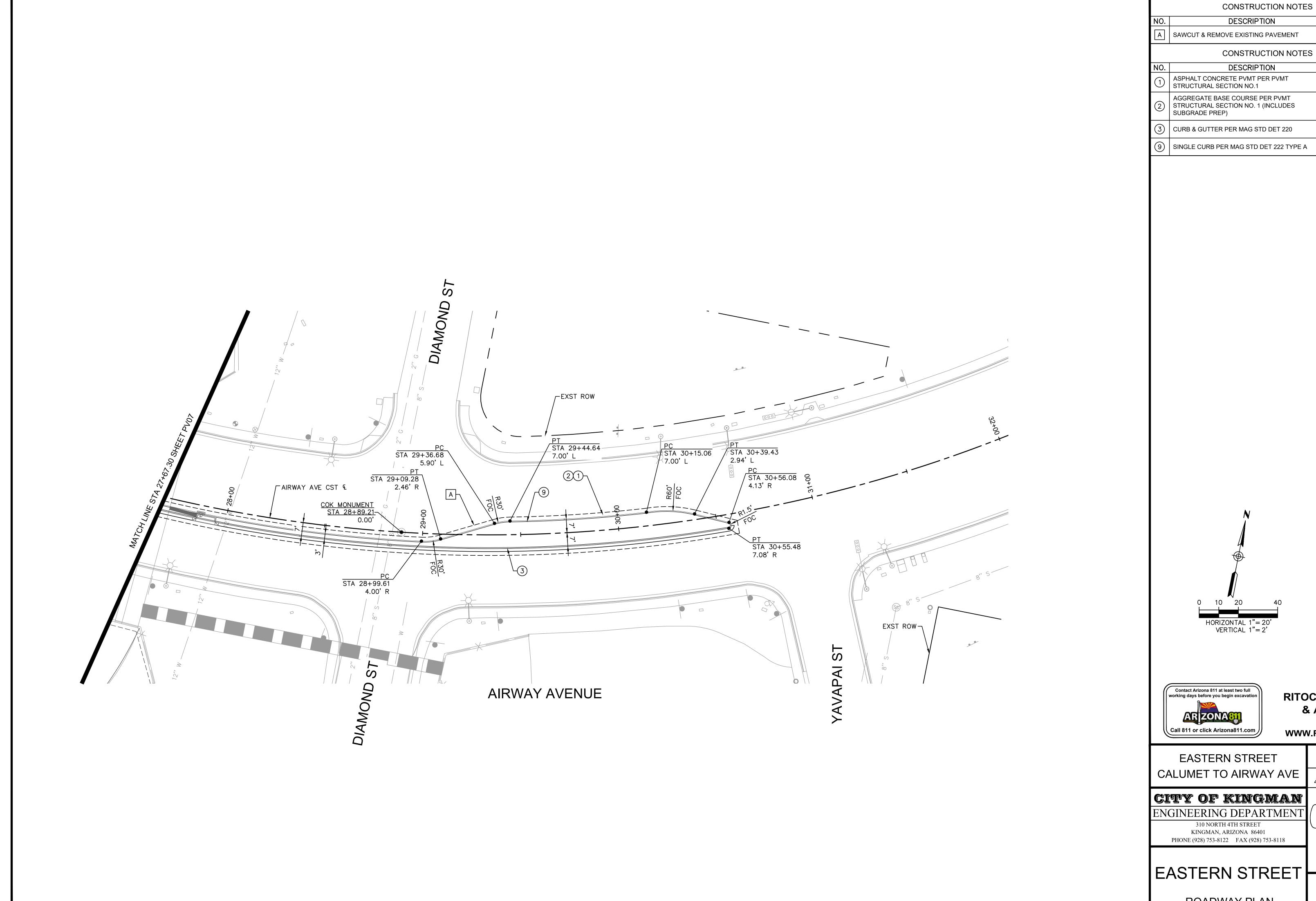


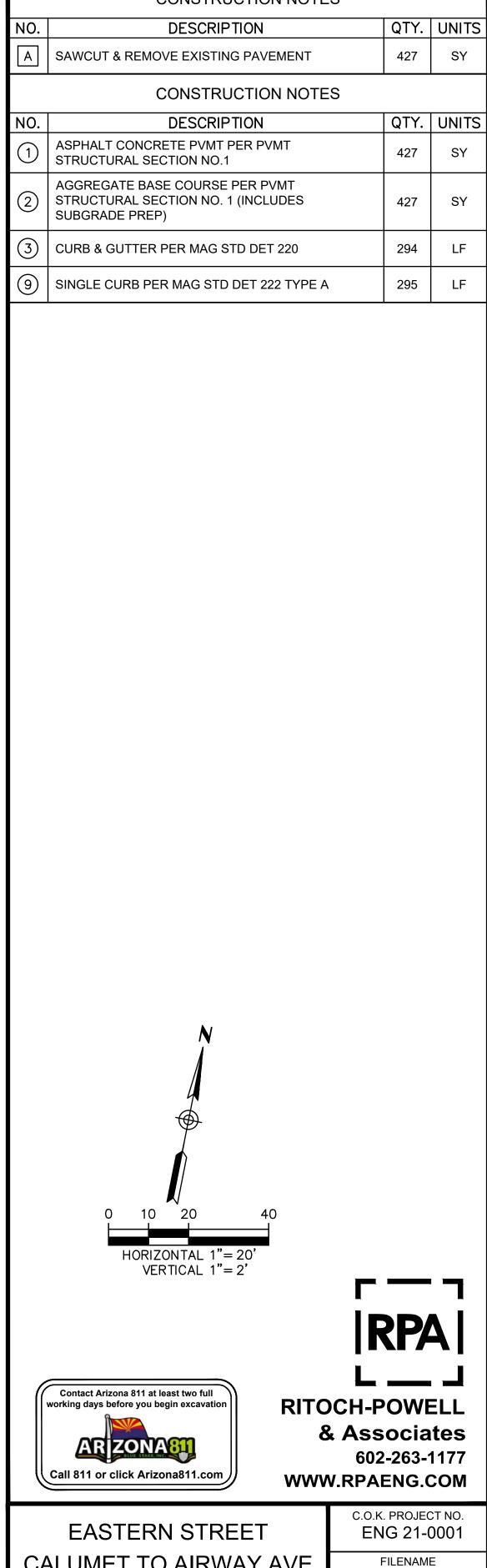
ROADWAY PLAN

SHEET NO. **PV07**38 OF 58

EXP IRES 03/31/2024







CALUMET TO AIRWAY AVE

FILENAME

40-221038-PV08.dwg

ENGINEERING DEPARTMENT

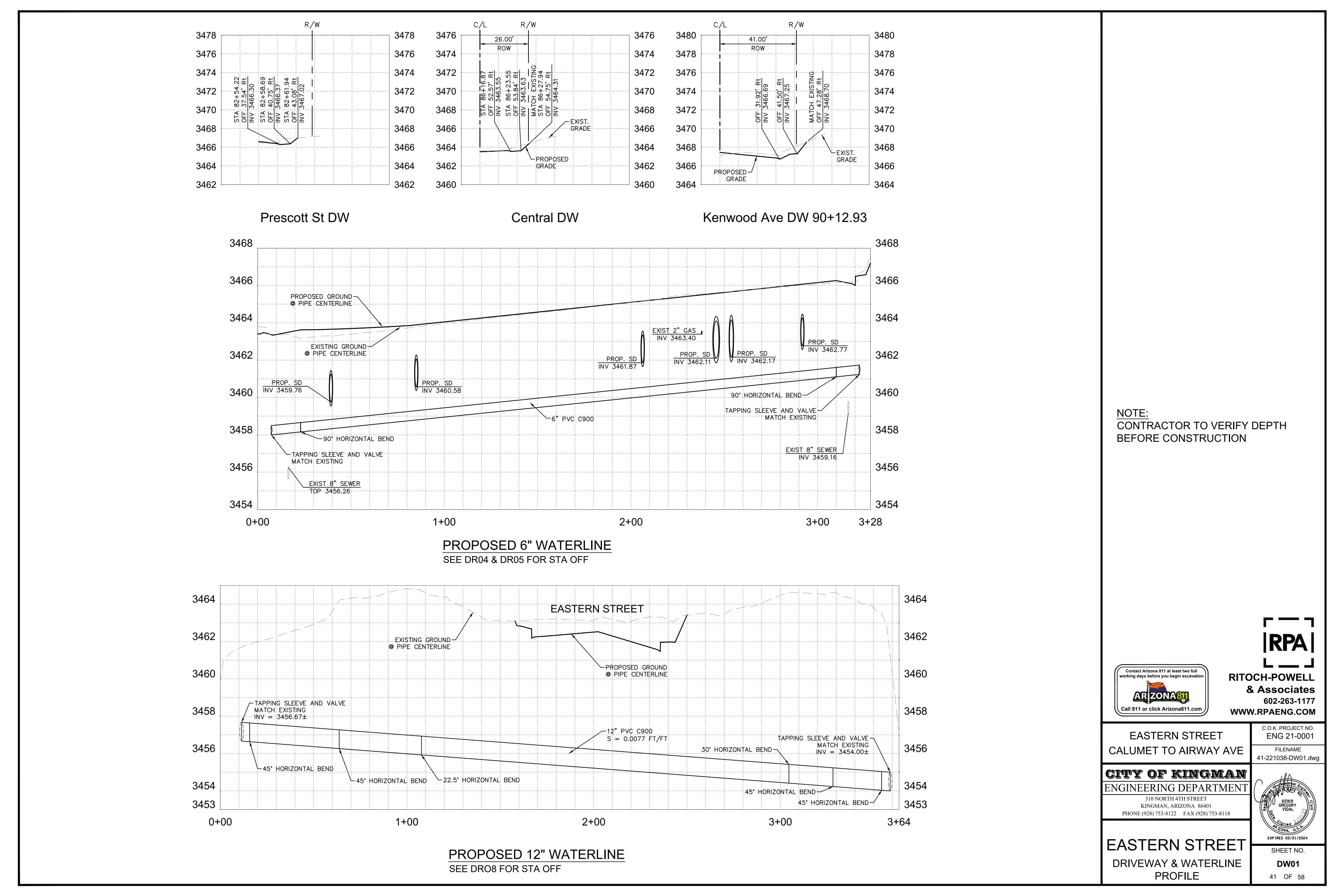
310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

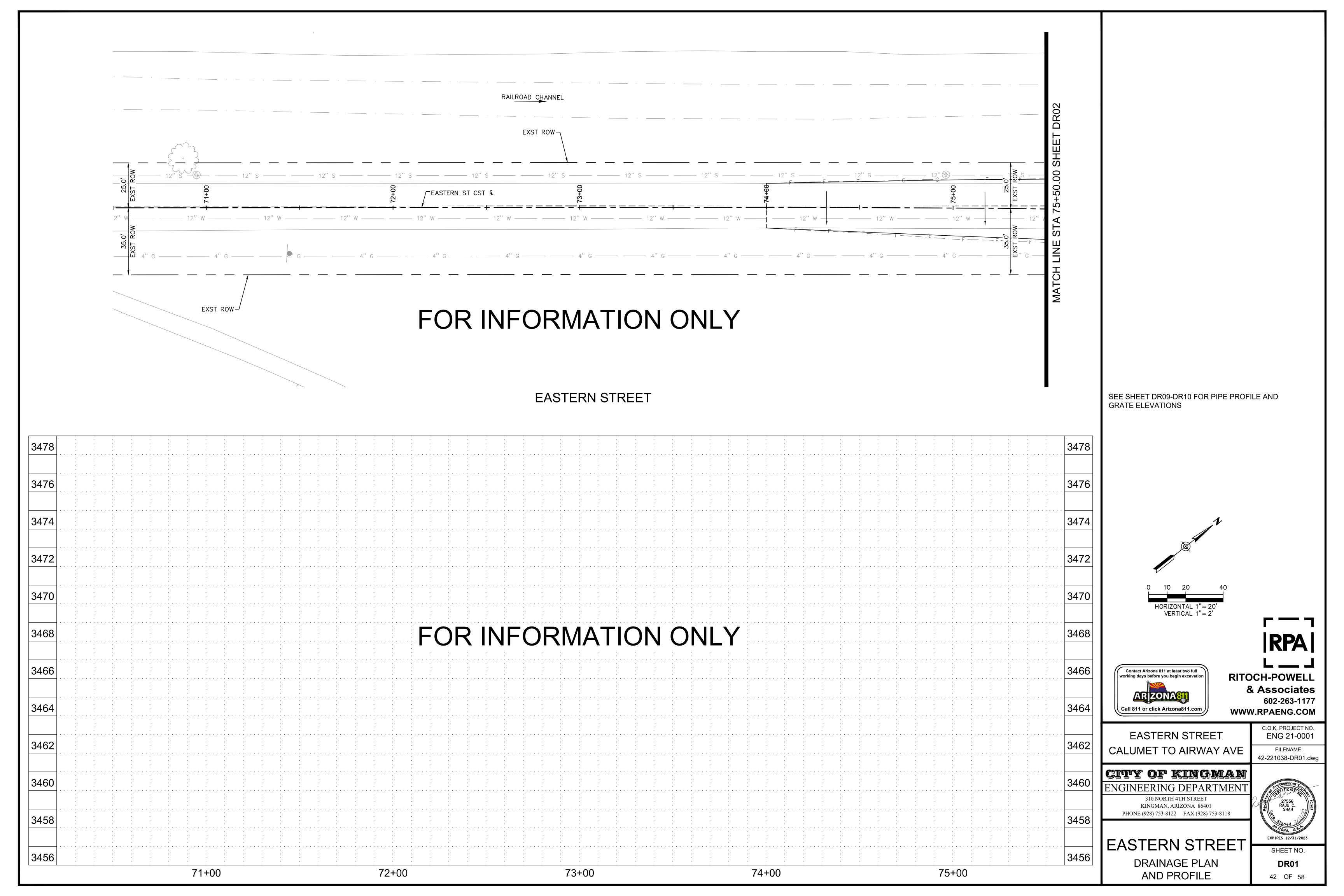
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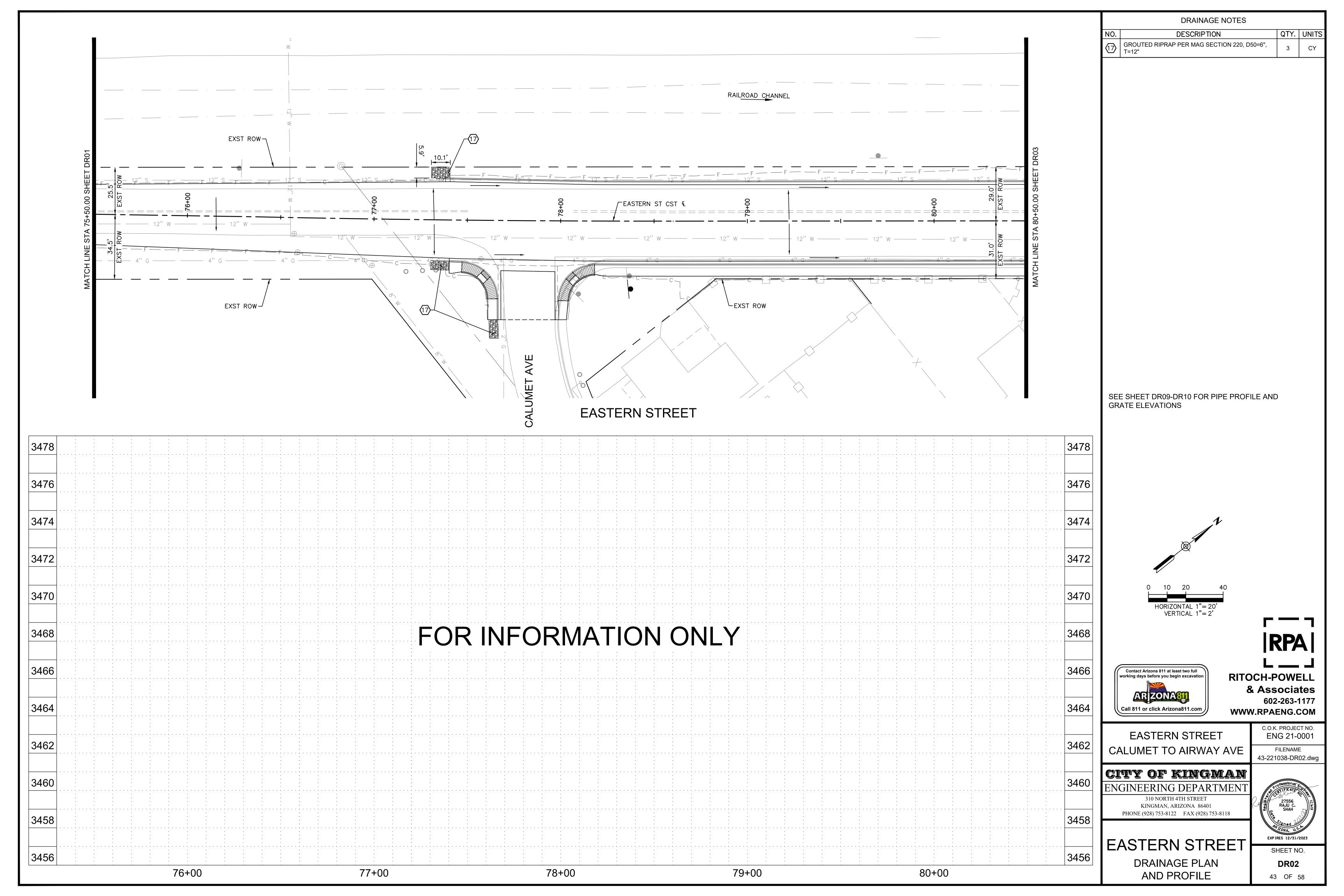
ROADWAY PLAN

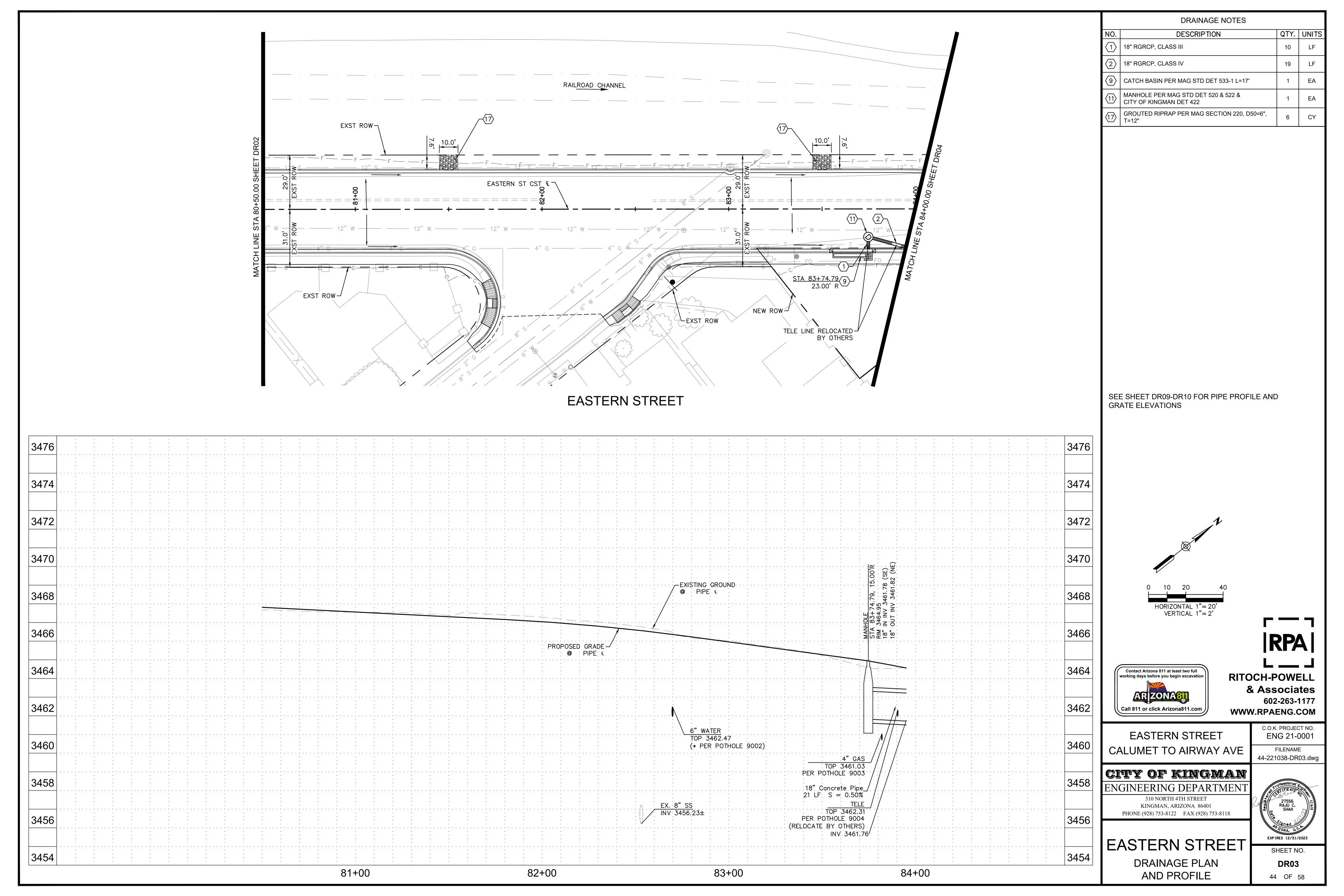
SHEET NO. PV08 40 OF 58

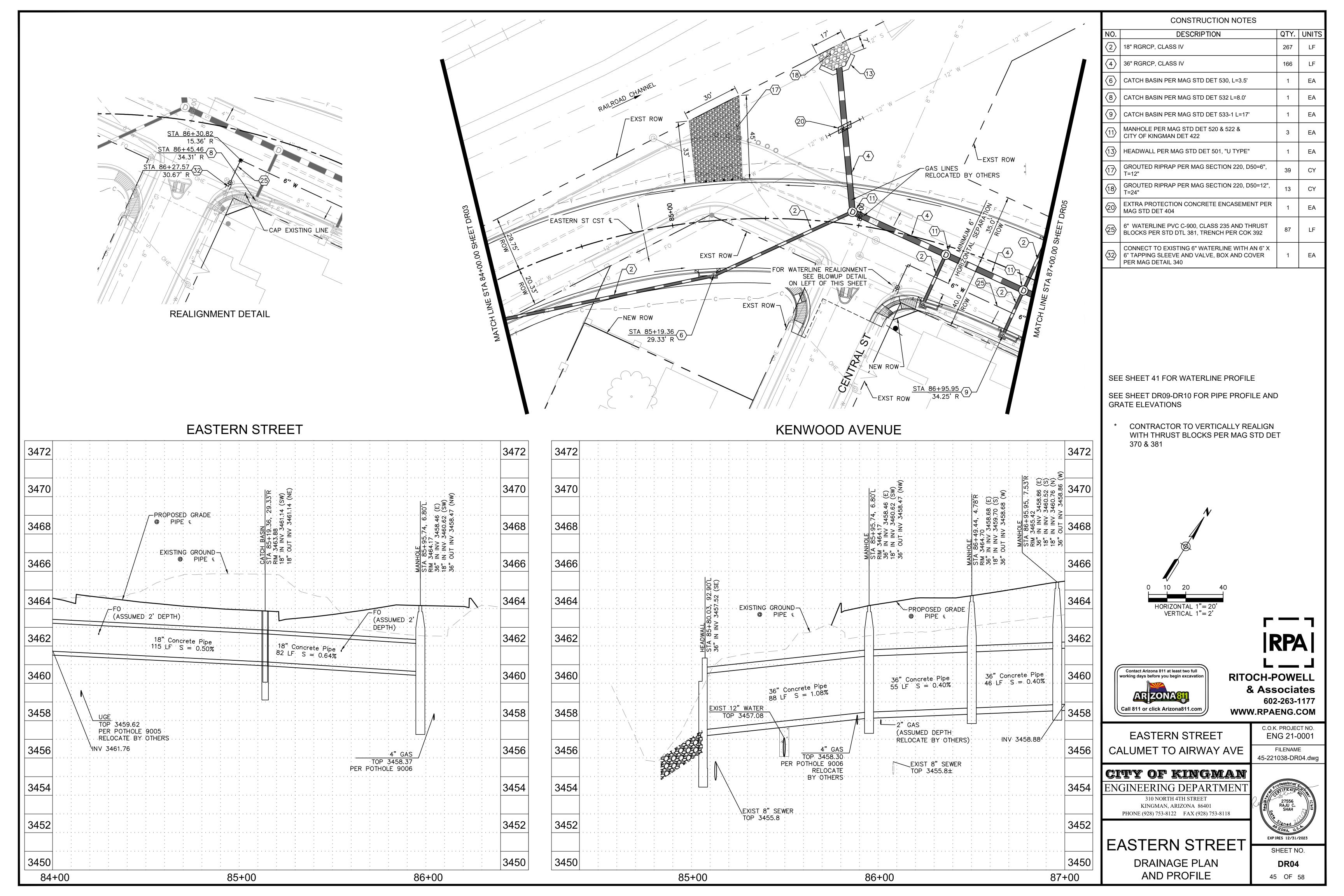
EXP IRES 03/31/2024

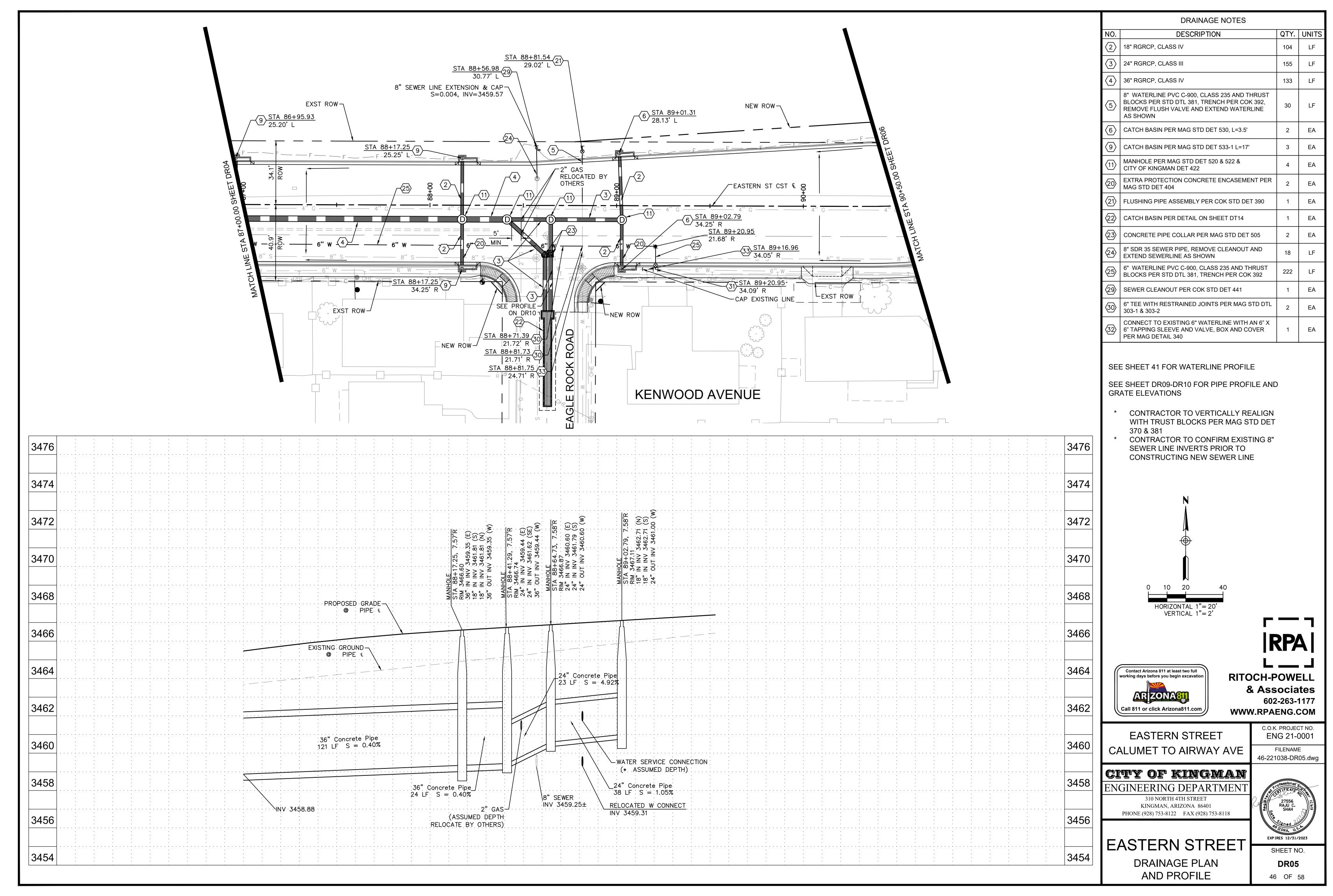


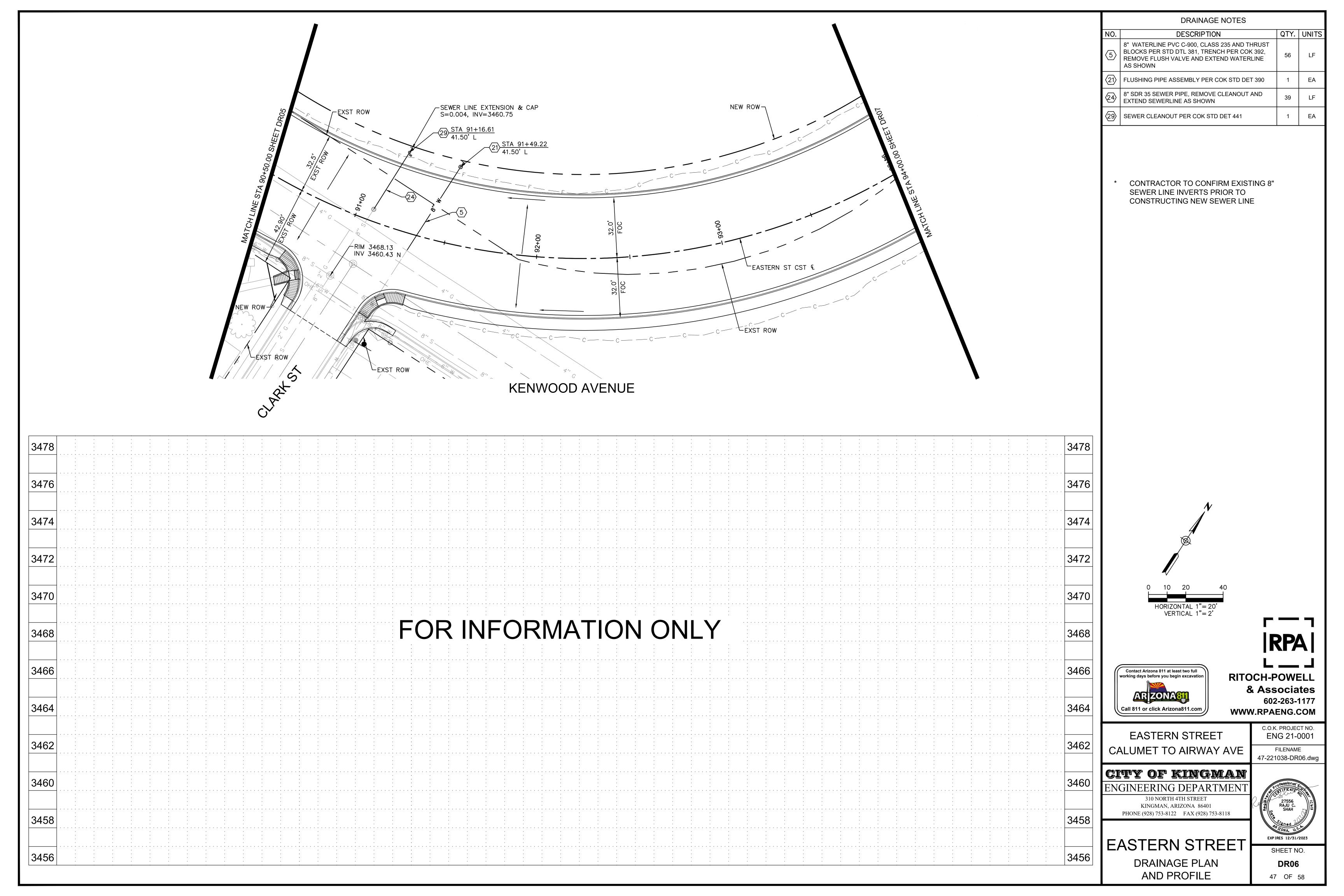


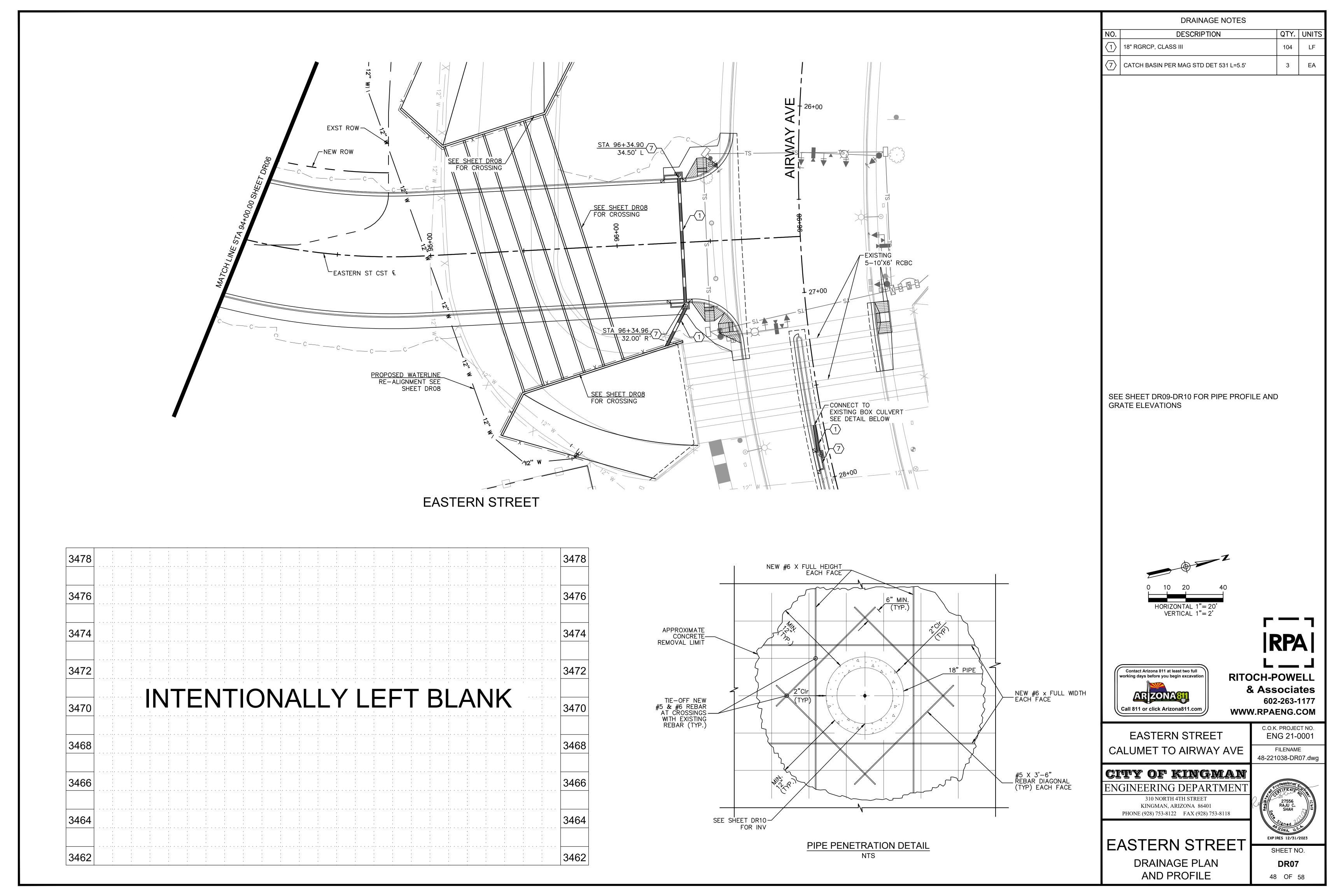


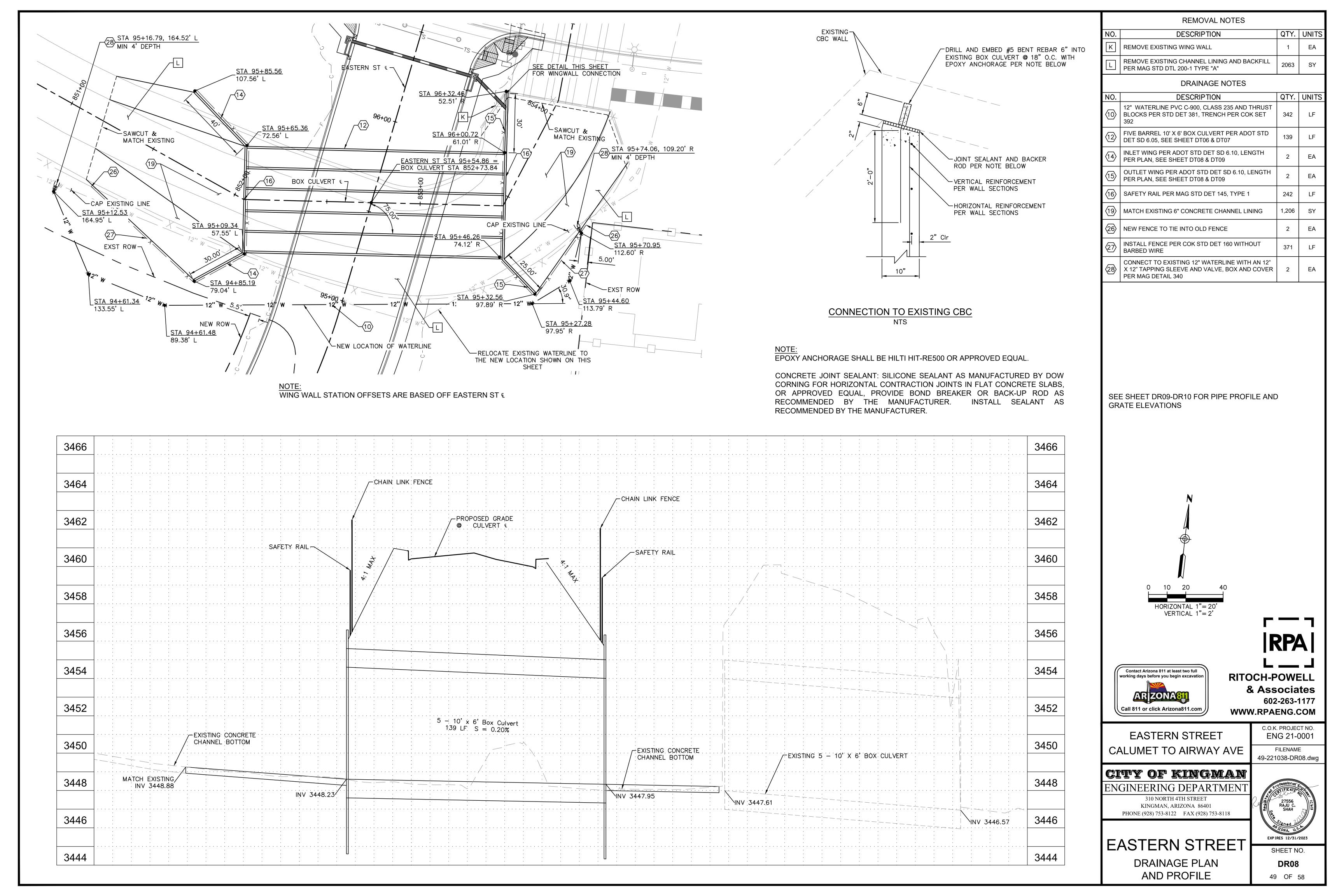


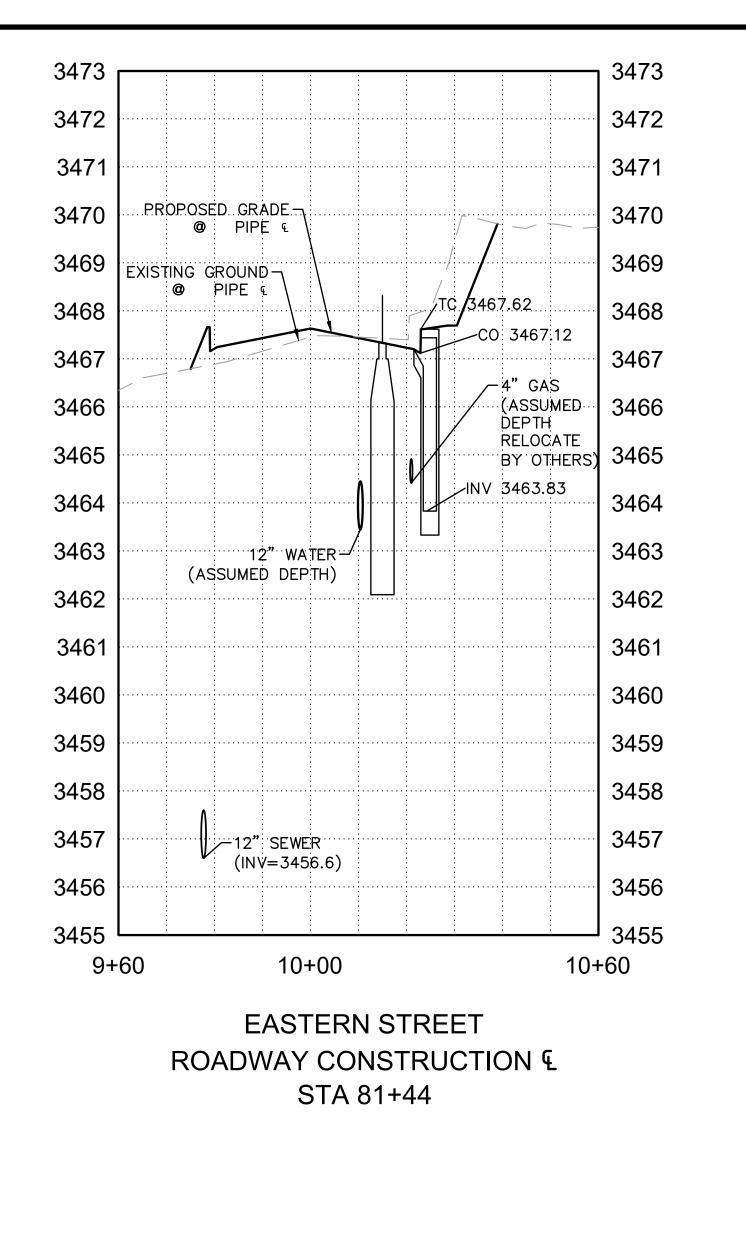


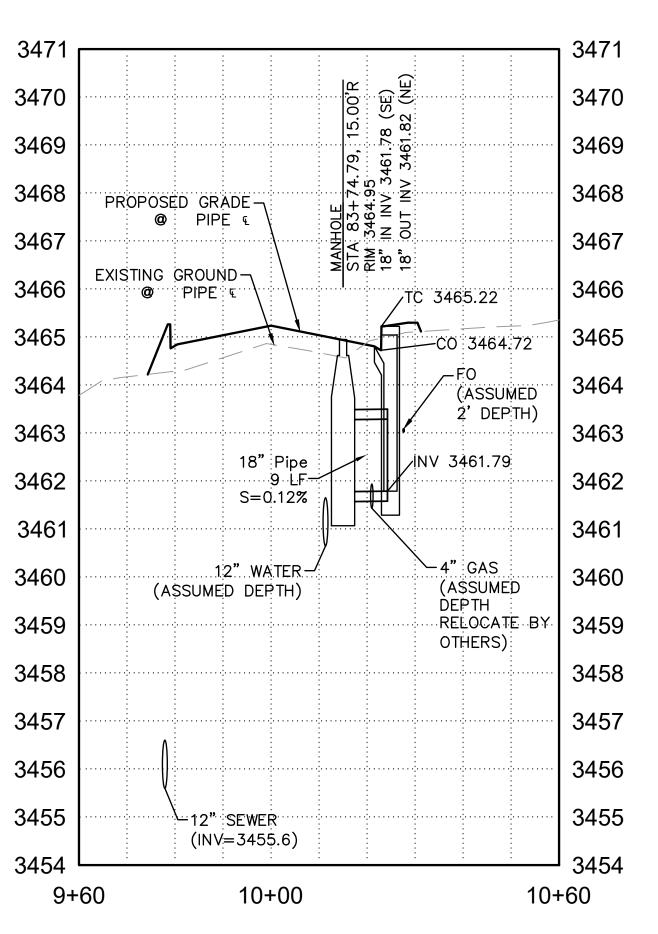




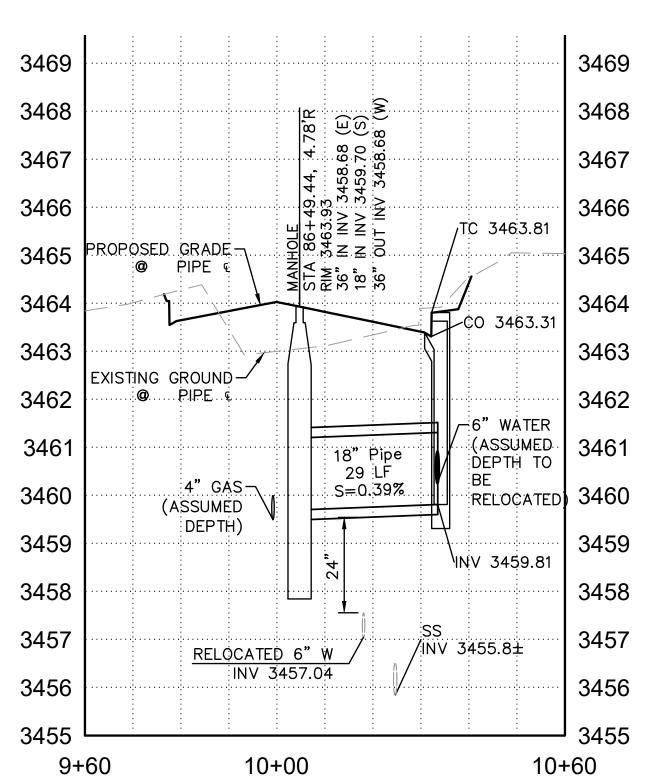








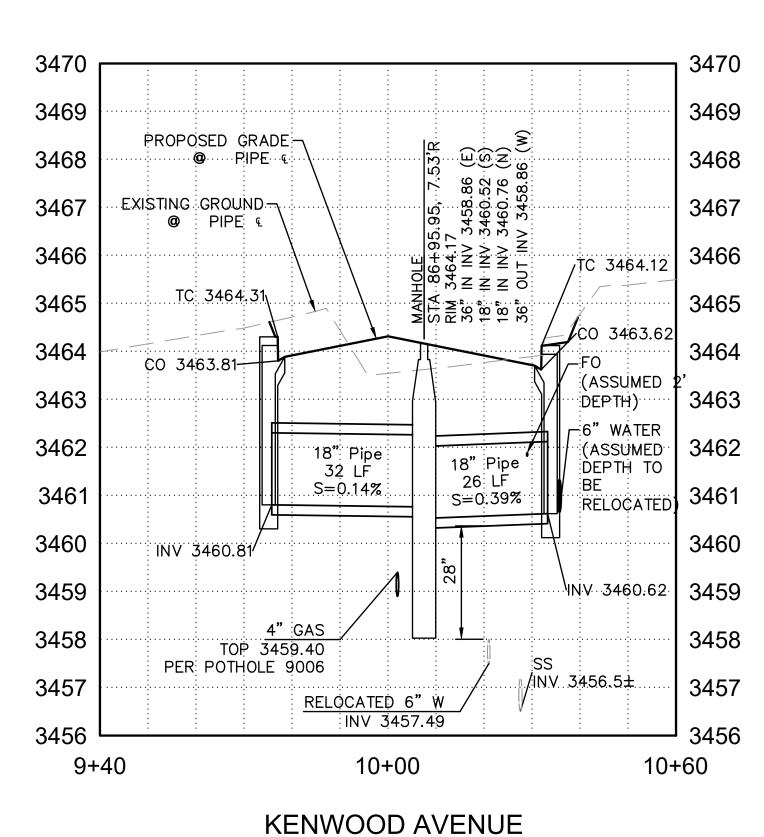
EASTERN STREET ROADWAY CONSTRUCTION & STA 83+74



KENWOOD AVENUE

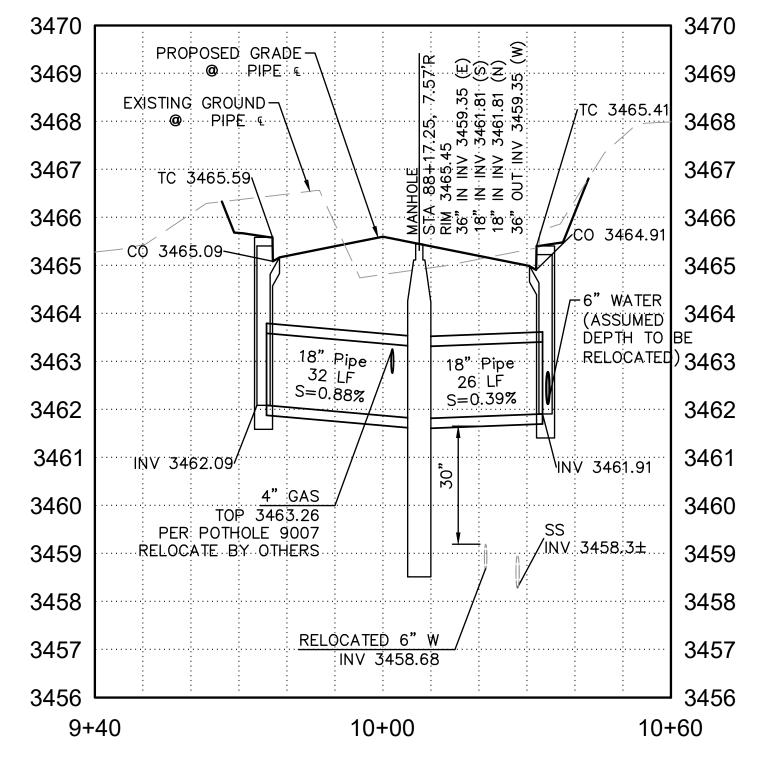
ROADWAY CONSTRUCTION &

STA 86+49

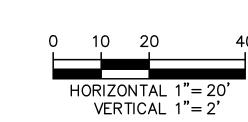


ROADWAY CONSTRUCTION &

STA 86+95



KENWOOD AVENUE ROADWAY CONSTRUCTION & STA 88+17







EASTERN STREET CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO. ENG 21-0001 FILENAME

50-221038-DR09.dwg

city of kingman ENGINEERING DEPARTMEN 310 NORTH 4TH STREET

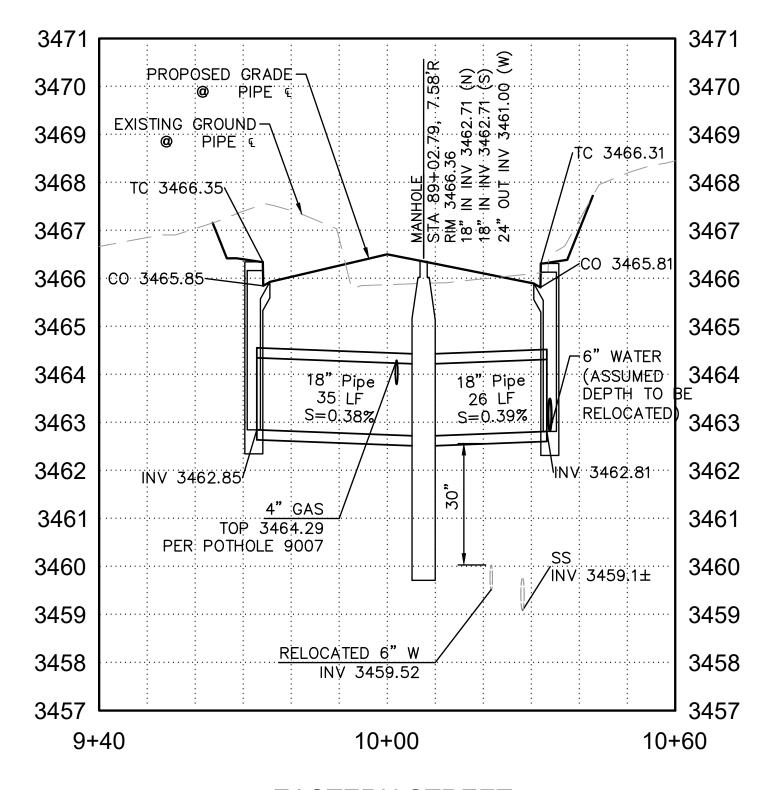
KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118



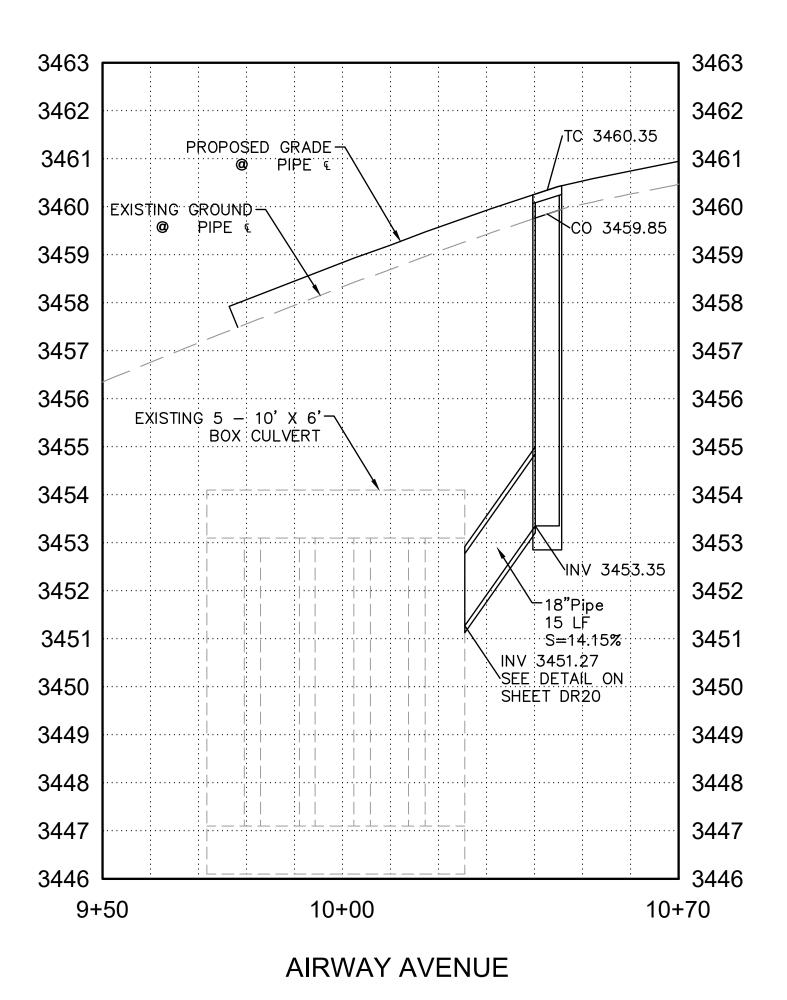
CONNECTOR PIPE PROFILES

SHEET NO. DR09 50 OF 58

EXP IRES 12/31/2023



EASTERN STREET ROADWAY CONSTRUCTION & STA 89+02

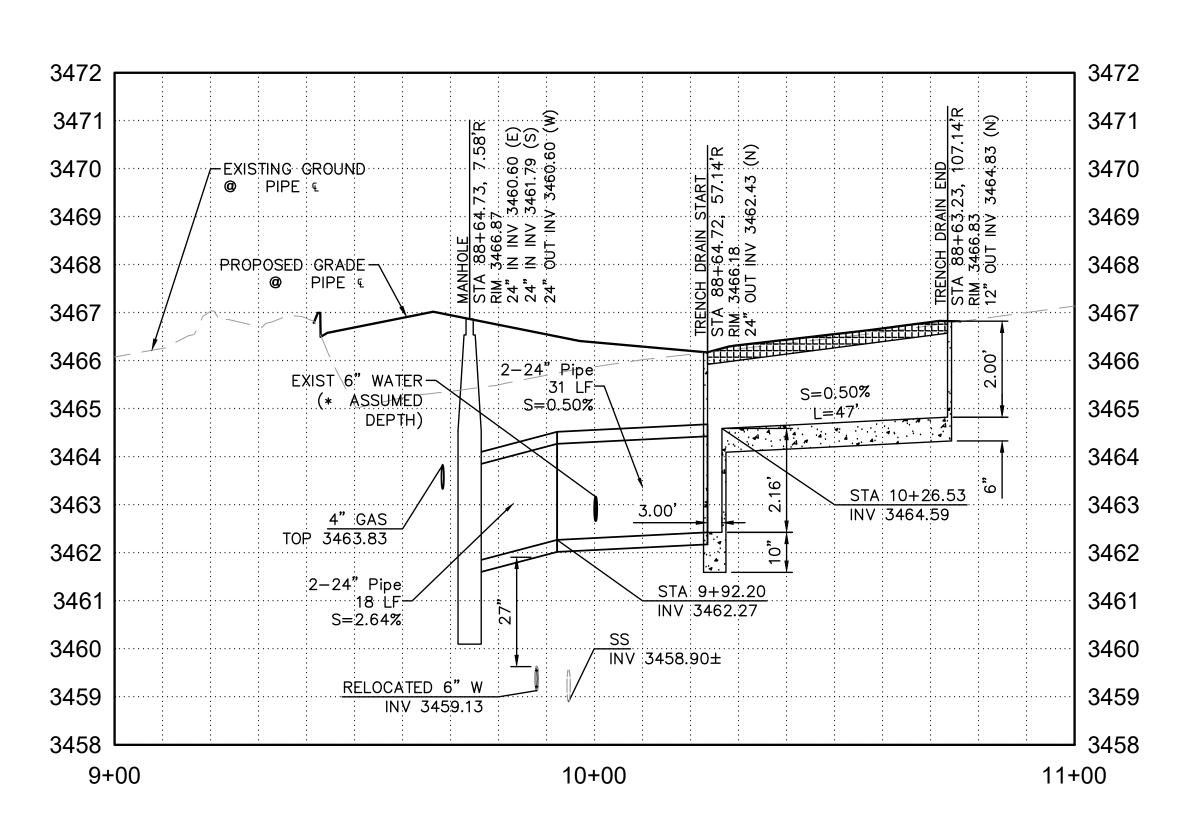


3461 3461 EXISTING GROUND

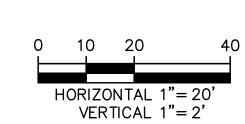
PIPE & 3460 3460 PROPOSED GRADE

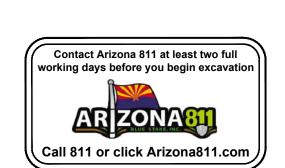
PIPE © 3459 3459 -TC 3458.26 /TC 3457.05 3458 3458 ROPOSED 7 3457 3457 WINGWALL / CO 3457.76 CO 3456.55 3456 3456 3455 3455 3454 3454 3453 3453 18" Pipe 69 LF 3452 3452 S=0.67% 3451 3451 INV 3451.55 3450 3450 INV 3451.08[/] 3449 3449 INV 3450.06[/] 3448 INV: 3447.86/ 3447 3447 PROPOSED CONCRETE-CHANNEL BOTTOM 3446 9+50 10+00 10+70

EASTERN STREET ROADWAY CONSTRUCTION & STA 96+34



EAGLE ROCK ROAD ROADWAY CONSTRUCTION & STA 88+63







EASTERN STREET CALUMET TO AIRWAY AVE

C.O.K. PROJECT NO. ENG 21-0001

FILENAME 51-221038-DR10.dwg

CITY OF KINGMAN ENGINEERING DEPARTMEN

310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118



SHEET NO.

EXPIRES 12/31/2023

DR10 51 OF 58

PAVEMENT MARKING NOTES:

FINAL STRIPING

- 1. FINAL STRIPING SHALL BE 90 MIL (0.090 INCHES) THICK ALKYD EXTRUDED THERMOPLASTIC REFLECTORIZED STRIPING PLACED OVER THE EXISTING STRIPING, PLACED AT A MINIMUM OF 30 CALENDAR DAYS AFTER THE INITIAL STRIPING. ALL OTHER MARKINGS SHALL BE APPLIED AT THE SAME TIME.
- 2. AT THE COMPLETION OF THE FINAL PAVEMENT SURFACE, CENTER LINES, LANE LINES, EDGE LINES AND STOP BARS SHALL BE STRIPED WITH ONE APPLICATION OF STANDARD REFLECTORIZED TRAFFIC PAINT AT THE LOCATIONS OF THE PERMANENT STRIPING. THE PAINT SHALL HAVE A MAXIMUM THICKNESS OF 15 MILS WET (5 MILS DRY).

RAISED / REFLECTIVE PAVEMENT MARKERS

- 3. ALL REFLECTIVE RAISED / RECESSED PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW. TYPE C PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE CLEAR REFLECTIVE FACE OF EACH MARKER IS FACING APPROACHING TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
- 4. ALL REFLECTIVE RAISED / RECESSED PAVEMENT MARKERS SHALL HAVE AN ABRASION-RESISTANT COATING ON THE FACE OF THE PRISMATIC REFLECTORS AND SHALL CONFORM TO DETAIL M-19 OF THE ADOT STANDARD DRAWINGS. THEY SHALL BE INSTALLED WITH A BITUMINOUS ADHESIVE WHICH IS ON THE ADOT APPROVED PRODUCTS LIST.
- 5. WHERE RAISED / RECESSED PAVEMENT MARKERS ARE PLACED ALONG SOLID STRIPING. THE NEAREST EDGE OF EACH MARKER SHALL BE OFFSET TWO INCHES FROM THE NEAREST EDGE OF THE STRIPE.

PAVEMENT PREPARATION

6. 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 BE A MINIMUM OF 55 DEGREE F AND RISING FOR THE PLACEMENT OF THERMOPLASTIC STRIPING. THE ROADWAY SURFACE SHALL BE DRY AND THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 60 DEGREES F FOR THE INSTALLATION OF TYPE I, II, OR III PAVEMENT MARKING TAPE. TYPE I TAPE SHALL NOT BE INSTALLED IF RAIN IS ANTICIPATED 48 HOURS PRIOR TO OR AFTER INTENDED INSTALLATION DATE.

STRIPING AND LEGENDS

- 7. SINGLE ARROW LEGENDS SHALL BE INSTALLED IN ACCORDANCE WITH ADOT STANDARD DRAWINGS. "ONLY" LEGENDS SHALL BE INSTALLED PER CITY OF KINGMAN STANDARD DETAIL NO. 138-1.
- 8. ALL FINAL STOP BARS, CROSSWALK LINES, AND PAVEMENT ARROWS SHALL BE 90 MIL (0.090 INCH) THICK, EXTRUDED THERMOPLASTIC REFLECTORIZED MARKINGS.
- 9. 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 ANY CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 10. 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.
- 11. THE CONTRACTOR SHALL BREAK THE CENTER LINES AND EDGE LINES ACROSS ANY INTERSECTIONS WITH DEDICATED ROADWAYS OR AS OTHERWISE DIRECTED BY THE ENGINEER. IN ADDITION, THE CONTRACTOR SHALL NOT PLACE ANY CENTER LINES WITHIN 10 FEET OF THE NEAREST EDGE OF PAVEMENT OF THE INTERSECTING ROADWAY.

OBLITERATION

12. WHEN STRIPE OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY AN APPROVED METHOD. PAINTING OVER STRIPING. REMOVAL OF PAVEMENT. AND OVERLAYING PAVEMENT DO NOT CONSTITUTE STRIPE OBLITERATION.

GENERAL

- 13. THE CONTRACTOR SHALL PRESERVE ALL ROADWAY SIGNS, SIGN SUPPORTS, OBJECT MARKERS, AND MILEPOST MARKERS. THE CONTRACTOR SHALL REPLACE ANY SIGNS, SIGN SUPPORTS OR MARKERS DAMAGED AS A RESULT OF THE CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
- 14. THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS AND DETAILS WHEN INSTALLING PAVEMENT MARKINGS.

SIGNING NOTES:

GENERAL

1. ALL SIGNS SHALL BE IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (ADOT SIGNING AND MARKING STANDARD DRAWINGS, AND THE ADOT TRAFFIC ENGINEERING MANUAL OF APPROVED SIGNS.

LOCATION

- 2. THE SIGN LOCATIONS AND THE POST LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE SIGN LOCATIONS AND ACTUAL POST LENGTHS WITH THE ENGINEER PRIOR TO INSTALLING SIGNS.
- 3. THE BOTTOM OF EACH SIGN SHALL BE AT LEAST 7 FEET ABOVE THE NEAREST EDGE OF PAVEMENT AND AT LEAST 7 FEET ABOVE THE GROUND UNDER THE SIGN.
- 4. OFFSETS FOR ALL SIGNS SHALL BE MEASURED FROM THE EDGE OF THE ROADWAY TO THE NEAREST EDGE OF THE SIGN.

PANEL

5. ALL NEW SIGNS SHALL BE FABRICATED OF FLAT SHEET ALUMINUM AS INDICATED IN SECTION 608 OF THE ADOT STANDARD SPECIFICATIONS.

SHEETING

6. THE RETROREFLECTIVE SHEETING ON ALL NEW SIGNS SHALL MEET CRITERIA ESTABLISHED IN SECTION 1007 OF THE ADOT STANDARD SPECIFICATIONS AND IN SECTION 380 OF ADOT'S TRAFFIC POLICIES, GUIDELINES AND PROCEDURES

POSTS

- 7. ALL NEW SIGNS SHALL BE INSTALLED ON NEW SQUARE TUBE POSTS WITH FOUNDATIONS AS INDICATED PER ADOT STANDARD DRAWING S-3 SHT 15.
- 8. THE ENGINEER MAY MODIFY THE SIGNING PLANS.

SHOP DRAWINGS

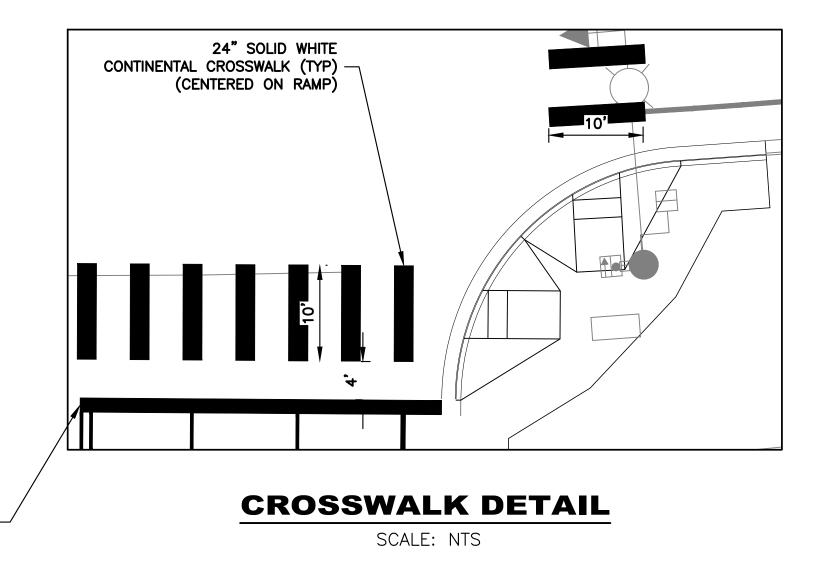
9. SHOP DRAWINGS WILL BE REQUIRED.

REMOVALS

- 10. THE CONTRACTOR SHALL REMOVE EXISTING SIGNING WHERE INDICATED IN THE SIGN SUMMARY.
- 11. THE CONTRACTOR SHALL INVENTORY ALL SIGNS TO BE REMOVED OR COVERED AND NOTE DAMAGED SIGNS TO THE ENGINEER AT THE TIME OF COVERING OR REMOVAL. ALL SIGNS DAMAGED BY COVERING OR REMOVAL SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE.

18" SOLID WHITE

STOP LINE (TYP)







EASTERN STREET

ENG 15-048 PASADENA TO AIRWAY AVE FILENAME 15-1150-SMPL01.dwg

city of kingman ENGINEERING DEPARTMEN

310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

EASTERN STREET

SIGNING AND MARKING **GENERAL NOTES**

SHEET NO. SM-01 52 OF 58

480.659.4250 p 480.659.0566 f

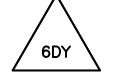
info@civtech.com

C.O.K. PROJECT NO.

37474 JAY ALLEN YENERICH



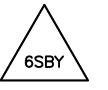
- OBLITERATE EXISTING STRIPING IN CONFLICT WITH THE PROPOSED STRIPING.
- BIKE LANE SYMBOL TO BE INSTALLED PER CITY OF KINGMAN STD DET 138-2-D10.
- INSTALL WHITE DIRECTIONAL ARROW, TYPE 1 PREFORMED PLASTIC PAVEMENT MARKING TAPE, PER CITY OF KINGMAN STD DET 138-1-D4.
- INSTALL "ONLY" LEGEND, TYPE 1 PREFORMED PLASTIC PAVEMENT MARKING TAPE, PER CITY OF KINGMAN STD DET 138-1-D6.



6" DOUBLE YELLOW LINE



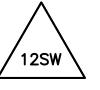
6" SOLID WHITE LINE



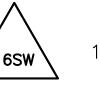
6" SOLID YELLOW LINE AND 6" BROKEN YELLOW LINE WITH A 10' LINE SEGMENT AND A 30' GAP



6" BROKEN WHITE LINE, 10' SEGMENT WITH A 30' GAP



12" SOLID WHITE LINE



16" SOLID WHITE LINE



480.659.0566 f Scottsdale, AZ 85260 info@civtech.com

EASTERN STREET

C.O.K. PROJECT NO. ENG 15-048 PASADENA TO AIRWAY AVE FILENAME

CITY OF KINGMAN

ENGINEERING DEPARTMENT

310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

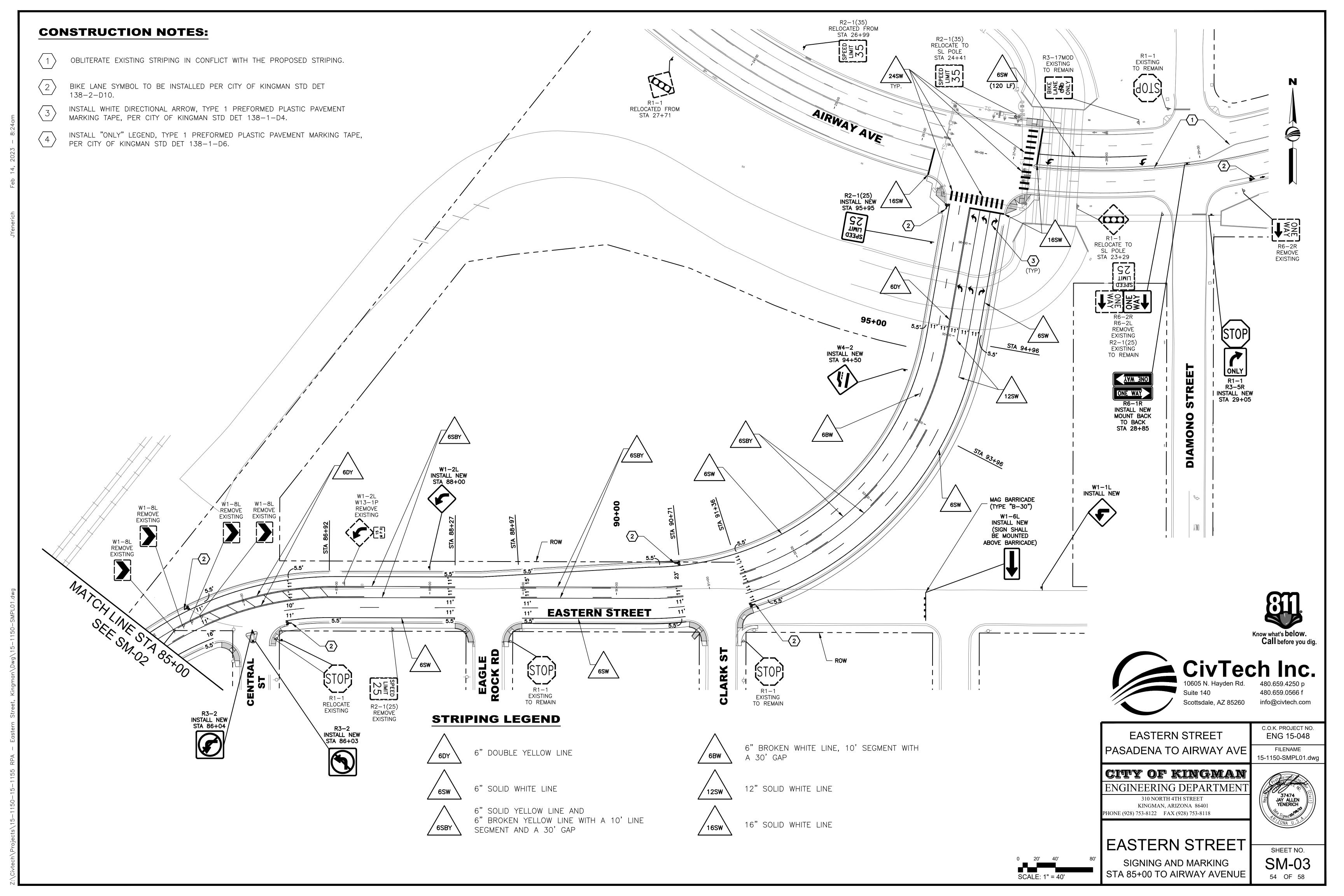
EASTERN STREET

SIGNING AND MARKING STA 65+00 TO 85+00

SHEET NO. SM-02 53 OF 58

15-1150-SMPL01.dwg

SCALE: 1" = 40'





- OBLITERATE EXISTING STRIPING IN CONFLICT WITH THE PROPOSED STRIPING.
- BIKE LANE SYMBOL TO BE INSTALLED PER CITY OF KINGMAN STD DET 138-2-D10.
- INSTALL WHITE DIRECTIONAL ARROW, TYPE 1 PREFORMED PLASTIC PAVEMENT MARKING TAPE, PER CITY OF KINGMAN STD DET 138-1-D4.
- INSTALL "ONLY" LEGEND, TYPE 1 PREFORMED PLASTIC PAVEMENT MARKING TAPE, PER CITY OF KINGMAN STD DET 138-1-D6.

STRIPING LEGEND



6" DOUBLE YELLOW LINE



6" SOLID WHITE LINE



6" SOLID YELLOW LINE AND 6" BROKEN YELLOW LINE WITH A 10' LINE SEGMENT AND A 30' GAP



6" BROKEN WHITE LINE, 10' SEGMENT WITH A 30' GAP



12" SOLID WHITE LINE



16" SOLID WHITE LINE



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EASTERN STREET

PASADENA TO AIRWAY AVE

CITY OF KINGMAN ENGINEERING DEPARTMENT

310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118



SIGNING AND MARKING STA 65+00 TO 85+00

SHEET NO. SM-04 55 OF 58

SCALE: 1" = 40'

CONSTRUCTION NOTES:

ENG 15-048 FILENAME 15-1150-SMPL01.dwg

C.O.K. PROJECT NO.



- RELOCATE EXISTING TYPE Q SIGNAL POLE AND EQUIPMENT TO NEW FOUNDATION ON NORTHWEST CORNER OF EASTERN STREET AND AIRWAY AVENUE.
- RELOCATE EXISTING TYPE A SIGNAL POLE AND EQUIPMENT TO NEW FOUNDATION ON SOUTHWEST CORNER OF EASTERN STREET AND AIRWAY AVENUE.
- RELOCATE EXISTING TYPE Q SIGNAL POLE AND EQUIPMENT TO NEW FOUNDATION ON SOUTHEAST CORNER OF EASTERN STREET AND AIRWAY AVENUE.
- RELOCATE EXISTING SIGNAL CONTROL CABINET TO NEW FOUNDATION ON NORTHEAST CORNER OF EASTERN STREET AND AIRWAY AVENUE.
- RELOCATE EXISTING UNINTERRUPTIBLE POWER CABINET TO NEW FOUNDATION ON NORTHEAST CORNER OF EASTERN STREET AND AIRWAY AVENUE.
- 6. RELOCATE EXISTING METER PEDESTAL TO NEW FOUNDATION ON NORTHEAST CORNER OF EASTERN STREET AND AIRWAY AVENUE.
- 7. RELOCATE EXISTING TYPE Q SIGNAL POLE AND EQUIPMENT TO NEW FOUNDATION ON NORTHEAST CORNER OF EASTERN STREET AND AIRWAY AVENUE.





EASTERN STREET	c.o.k. project no. ENG 15-048
PASADENA TO AIRWAY AVE	FILENAME 15-1150-TSPL01.dwg

CITY OF KINGMAN ENGINEERING DEPARTMENT

310 NORTH 4TH STREET KINGMAN, ARIZONA 86401

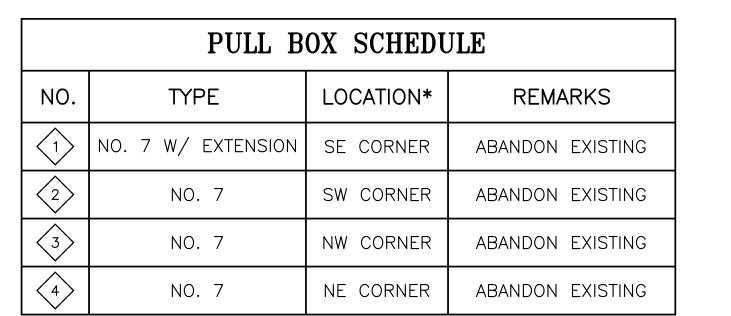


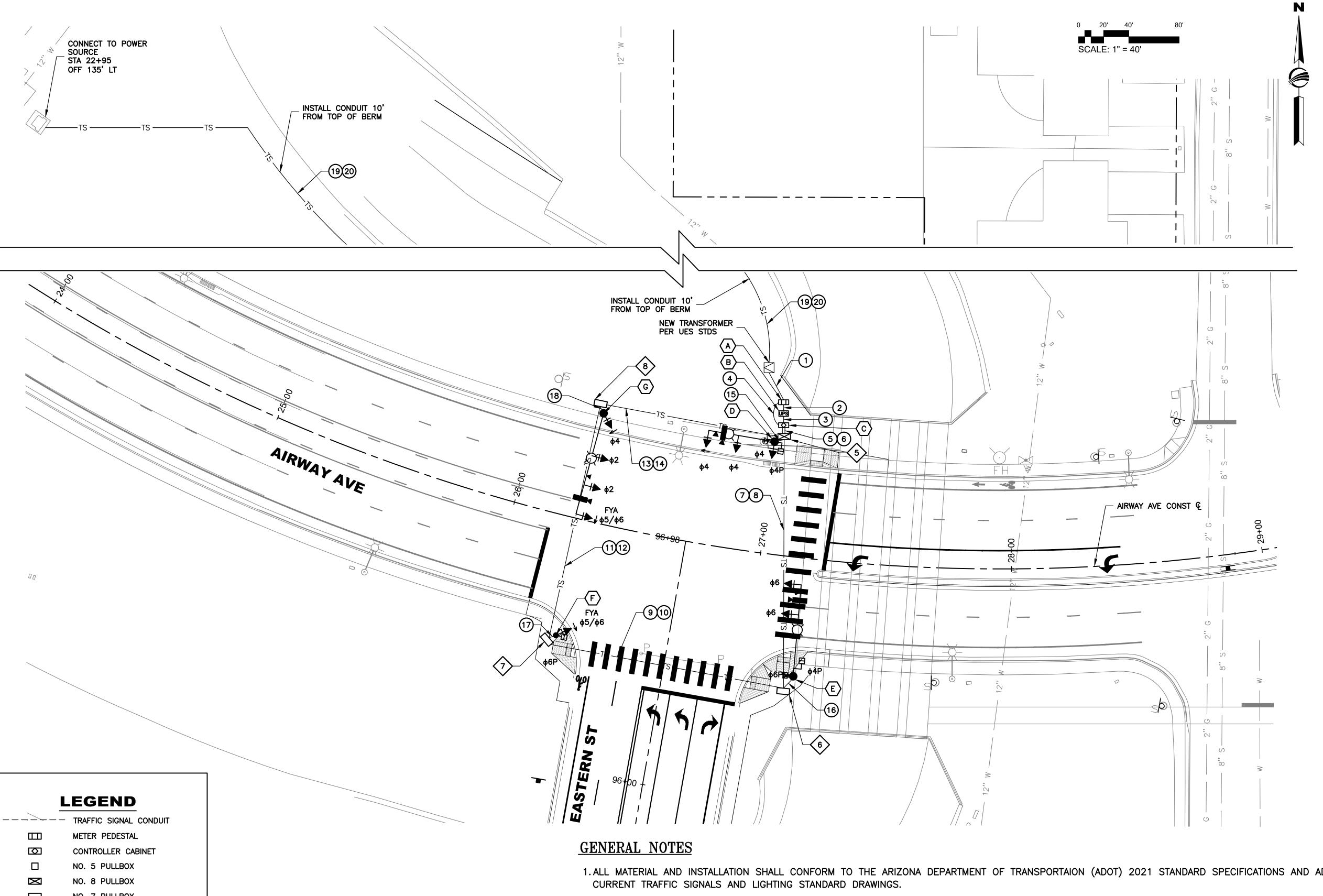
TRAFFIC SIGNAL REMOVAL SHEET

SHEET NO. TS-01 56 OF 58

GENERAL REMOVAL NOTES:

- REMOVE AND SALVAGE EXISTING POLES, MAST ARMS, LUMINAIRES, MOUNTING ASSEMBLIES, CONTROL CABINET AND SIGNAL FACES. REFER TO CONSTRUCTION NOTES ON THIS SHEET FOR RELOCATION OF EXISTING SIGNAL EQUIPMENT AND HARDWARE. ALL SIGNAL EQUIPMENT NOT BEING RELOCATED SHALL BE DELIVERED TO THE CITY OF KINGMAN PUBLIC WORKS YARD. THE CONTRACTOR SHALL CONTACT CITY OF KINGMAN STREET SUPERINTENDENT AT 928-692-3135 TO COORDINATE THE DELIVERY OF SALVAGED SIGNAL EQUIPMENT.
- 2. ALL EXISTING PULL BOXES AND FOUNDATIONS SHALL BE ABANDONED AND LEFT IN PLACE BY THE CONTRACTOR OR AS DIRECTED BY THE CITY INSPECTOR.
- 3. EXISTING CONDUCTORS SHALL BE ABANDONED AND LEFT IN PLACE OR AS DIRECTED BY THE CITY INSPECTOR.





CONSTRUCTION NOTES

- 1. THE SIGNAL CONTROL CABINET SHALL BE RELOCATED FROM THE SOUTHEAST CORNER OF THE INTERSECTION OF YAVAPAI STREET AND AIRWAY AVENUE.
- 2. THE METER PEDESTAL CABINET SHALL BE RELOCATED FROM THE SOUTHEAST CORNER OF THE INTERSECTION OF YAVAPAI STREET AND AIRWAY AVENUE.
- 3. THE UNINTERRUPTIBLE POWER CABINET SHALL BE RELOCATED FROM THE SOUTHEAST CORNER OF THE INTERSECTION OF YAVAPAI STREET AND AIRWAY AVENUE.
- 4. UNDERGROUND ELECTRICAL CONDUIT AND FITTINGS TO BE INSTALLED PER ADOT SPECS 732-3. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AND PLACE CONDUIT TO AVOID SUCH UTILITIES.
- 5. NEW ADOT #7 PULL BOXES PER ADOT STD DWG T.S. 1-4 AND ADOT SPECS 732-2 SHALL BE INSTALLED BY THE CONTRACTOR AS SPECIFIED ON THE PLANS.
- 6. VIDEO DETECTION SHALL BE INSTALLED. DETECTION SHALL BE ECONOLITE AUTOSCOPE VISION OR APPROVED EQUAL.
- 7. THE VIDEO DETECTORS SHALL EACH HAVE A SEPARATE CHANNEL IN THE CONTROL CABINET AND THE DETECTOR RACK.
- 8. VIDEO DETECTORS SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE DAY OF TURN-ON.
- 9. THE ELEVATION OF THE TOP OF THE POLE FOUNDATIONS SHALL MATCH THE TOP OF THE ADJACENT RAMP CURB, AND SHALL BE INSPECTED BY THE CITY PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR SHALL PROVIDE COMPACTED FILL AROUND THE FOUNDATIONS FOR COMPLETE STRUCTURAL SUPPORT.
- 10. THE CONTRACTOR SHALL PERFORM A GROUND RESISTANCE TEST FOR EACH INSTALLED GROUND ROD AND POLE FOUNDATION GROUNDING COIL IN ACCORDANCE WITH ADOT STANDARDS SUBSECTION 732-3.03.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING HEIGHT OF SIGNAL MAST ARMS IS NOMINAL 21-FEET ABOVE PAVEMENT.
- 12. PAVEMENT MARKINGS ARE SHOWN FOR REFERENCE ONLY. SEE SIGNING & STRIPING PLAN FOR INSTALLATION REQUIREMENTS.
- 13. CONTRACTOR TO PROVIDE 90° BEND ON CONDUIT RUN NO. 1, ALONG WITH A 30-FEET LENGTH OF ELECTRIC SERVICE CABLE FOR CONNECTION TO EXISTING TRANSFORMER BY UNISOURCE ENERGY ELECTRIC CO. CONTRACTOR TO COORDINATE THIS EFFORT PER TRAFFIC SIGNAL NOTE X ON SHEET X.
- 14. ALL PULL BOXES SHALL BE LEFT IN A CLEAN CONDITION, FREE OF DIRT AND DEBRIS UPON COMPLETION OF THE WORK.
- 15. CONDUIT RUN TO BE DIRECTIONAL BORE ACROSS AIRWAY AVENUE.
- 16. A POLICE OFFICER SHALL BE ON SITE DURING SIGNAL START-UP.

- NO. 7 PULLBOX
 - VIDEO DETECTION PEDESTRIAN PUSH BUTTON

TRAFFIC SIGNAL HEAD

- PEDESTRIAN SIGNAL HEAD VIDEO DETECTION ZONE AND PHASE NUMBER
- TRAFFIC SIGNAL (SEE POLE SCHEDULE) CONDUIT RUN NUMBER (SEE CONDUCTOR SCHEDULE)
- CONSTRUCTION NOTES EXISTING PULLBOX
- (SEE PULLBOX SCHEDULE) NEW PULLBOX (SEE PULLBOX SCHEDULE)
 - ADA COMPLIANT PAD
- PULL BOX SCHEDULE NO. TYPE LOCATION* REMARKS PER ADOT DETAILS STA 27+03, NO. 7 W/ EXTENSION 47'LT T.S. 1-2 & 1-4 6 STA 27+14, PER ADOT DETAILS NO. 7 52 RT T.S. 1-2 & 1-4 $\overline{?}$ STA 26+25, PER ADOT DETAILS NO. 7 50' RT T.S. 1-2 & 1-4 8 STA 26+24, PER ADOT DETAILS NO. 7 47'LT T.S. 1-2 & 1-4

*ALL STATIONING FROM AIRWAY AVENUE. STATIONS AND OFFSETS SHOWN ARE APPROXIMATE, ACTUAL LOCATIONS ARE TO BE FIELD VERIFIED BY THE INSPECTOR PRIOR TO PULL BOX INSTALLATION.

- 1. ALL MATERIAL AND INSTALLATION SHALL CONFORM TO THE ARIZONA DEPARTMENT OF TRANSPORTAION (ADOT) 2021 STANDARD SPECIFICATIONS AND ADOT'S MOST
- 2.THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ALL INVOLVED UTILITIES MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE, PER SECTION 730-6 OF THE ADOT STANDARD SPECIFICATIONS, FOR CONTACTING ALL UTILITIES FOR EXACT LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 3.FOR ELECTRICAL SERVICE, THE CONTRACTOR SHALL COORDINATE WITH MARVIN YARBOROUGH OF UNISOURCE ENERGY SERVICES AT (928) 681-8928. ALL APPLICATIONS FEES AND CONNECTIONS FEES HAVE BEEN PAID BY THE KINGMAN TO UNISOURCE ENERGY SERVICES AFTER REVIEW BY THE CITY INSPECTOR.
- 4.THE CONTRACTOR WILL BE RESPONSIBLE FOR THE INSTALLATION OF TWO AND A HALF (2.5) INCH CONDUIT FOR THE PRIMARY CIRCUIT BETWEEN THE NEW TRANSFORMER LOCATION AND THE POWER PEDESTAL AS SHOWN ON THE PLANS. THE BURY DEPTH OF THE CONDUIT SHALL BE A MINIMUM OF 59 INCHES AND SHALL BE INSTALLED IN ACCORDANCE WITH UES STANDARD DETAILS AND SPECIFICATIONS. AS WELL, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE INSTALLATION OF A NEW TRANSFORMER BASEMENT. UNISOURCE ELECTRIC WILL PROVIDE THE CONDUIT, CONDUCTORS AND THE TRANSFORMER BASEMENT BUT, THE CONTRACTOR WILL BE RESPONSIBLE FOR PICKUP FROM UNISOURCE'S OPERATIONS YARD AND INSTALLATION. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT INTO THE EXISTING TRANSFORMER WITH UES ELECTRIC. UES ELECTRIC WILL SUPPLY AND INSTALL THE TRANSFORMER AND PRIMARY CONDUCTORS. UES ELECTRIC WILL LAND THE CONDUCTORS ON EACH END. UES ELECTRIC SHALL BE NOTIFIED PRIOR TO BACKFILL SO THEY MAY INSPECT THEIR FACILITIES. A GREEN TAG FROM THE CITY OF KINGMAN BUILDING AND LIFE SAFETY DIVISION WILL BE REQUIRED BEFORE THE PANEL IS ENERGIZED.



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EASTERN STREET

PASADENA TO AIRWAY AVE 15-1150-TSPL01.dwg

CITY OF KINGMAN

ENGINEERING DEPARTMEN 310 NORTH 4TH STREET

KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118

EASTERN STREET

SIGNAL PLAN SHEET

TS-02

57 OF 58

SHEET NO.



C.O.K. PROJECT NO.

ENG 15-048

FILENAME

37474 JAY ALLEN YENERICH

= UNINTERRUPTIBLE POWER SUPPLY

= EMERGENCY VEHICLE PREEMPTION

= PUSH BUTTON

= MAN/HAND WITH COUNTDOWN SIGNAL

			CAI	BINET	AN	D POLE	SCHEDUL	E	
	O.I.D.IVIET	TRAFFIC S				ALLY CON	TDOI	REMARKS	LOCATION*
A	CABINET	METER PEDESTAL WITH BYPASS	CON	TROLLER		PER ADOT T.S. 2-6 T.S. 3-10 T.S. 3-11	DETAILS	SEE NOTE 2 SERVICE ADDRESS: 3368 AIRWAY AVENUE KINGMAN, ARIZONA 86401	STA 27+01, 61' LT
B	UPS							SEE NOTE 3	STA 27+02, 56' LT
(C)	PEC — o	IV	MPS, 8 DRIVEN DISPLA ECONO COLBAI	LITE		O AMP FU CONTACTOR PEC.	SED LIGHTING AND	SEE SHEET 1	STA 27+03, 52' LT
NO.	POLE	TYPE	MAST SIG.	ARM LUM.	SI(GNALS . FACE	P.B. SIGN	REMARKS	LOCATION
D	P.B. M/H EVD R F VDD F	Q	25'	20'	2-II 1-V 1-V	1-R 1-F 1-M/H	R10-4b(R)	250 WATT, 240V HPS LUMINAIRE TYPE III, MEDIUM CUTOFF. (1) ADA PED PUSH BUTTON. (1) COUNTDOWN PEDESTRIAN SIGNAL.	STA 27+00, 45' LT
EVE	P.B M/H M/H	Q	35'	20'	2-II 1-VII		R10-4b(L)	250 WATT, 240V HPS LUMINAIRE TYPE III, MEDIUM CUTOFF. (1) ADA PED PUSH BUTTON. (2) COUNTDOWN PEDESTRIAN SIGNALS.	STA 27+16, 45' RT
F	M/H □ FYA	А	_	-	1-V 1-IV	· · · · · · · · · · · · · · · · · · ·		(1) COUNTDOWN PEDESTRIAN SIGNAL.	STA 26+28, 47' RT
G	FYA F EVD R	Q	40'	20'	1-II 2-II 1-V	2-F	-	250 WATT, 240V HPS LUMINAIRE TYPE III, MEDIUM CUTOFF.	STA 26+26, 43' LT
PEC	= PHOTO ELECTRIC CELL = LININTERRUPTIBLE POWER	CLIDDLY	•	* AL	L STA	TIONING F	ROM AIRWAY D	RIVE. STATIONS AND OFFSETS SHOW	WN ARE

APPROXIMATE, ACTUAL LOCATIONS ARE TO BE FIELD VERIFIED BY THE TRAFFIC

SIGNAL INSPECTOR PRIOR TO PULL BOX INSTALLATION.

CONDUIT SIZE (INCH) AWG CIRCUIT PHASE NO. OF CABLES IMSA CABLE NO. OF CONDUCTORS SIGNAL \$2 SIGNAL \$4 SIGNAL \$5 SIGNAL \$6 SIGNAL COMMON PEDESTRIAN SIGNAL 64 PEDESTRIAN SIGNAL 66 PEDESTRIAN SIGNAL COMMON PEDESTRIAN P.B. 64 PEDESTRIAN P.B. COMMON SPARES 3 | 4 | 4 | #14 CAMERA DETECTION \$4 CAMERA DETECTION 65 CAMERA DETECTION 66 LIGHTING 240V GROUND INSULATED BOND (GREEN)

 $\Leftrightarrow |3|3|$

CONDUCTOR SCHEDULE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

ALL CONDUCTORS ARE NEW.

SERVICE

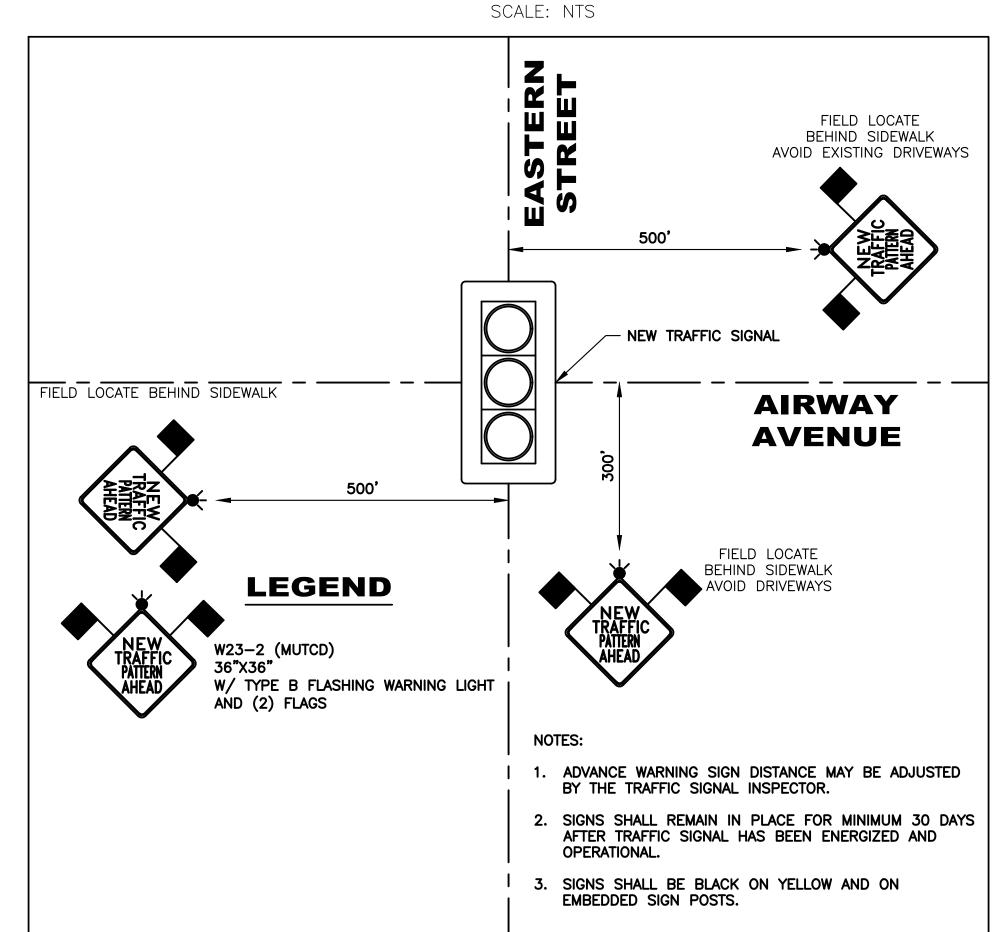
CONDUIT RUN NO.

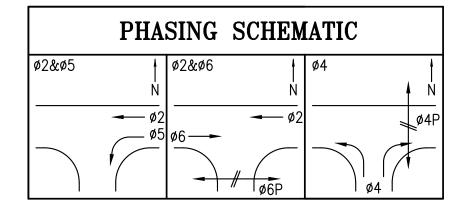
☐ THE INSULATED BOND SHALL HAVE THE INSULATION STRIPPED INSIDE THE PULL BOXES.

EMERGENCY VEHICLE PRE-EMPTION

- * THE ISMA 20-CONDUCTOR, 7-CONDUCTOR, AND 4-CONDUCTOR CABLES SHALL BE #12 AWG ISMA 19-01.
- CONDUCTORS BY POWER COMPANY. CONDUIT BY CONTRACTOR PER POWER COMPANY
- ♦ EMERGENCY VEHICLE PER-EMPTION SHALL BE OPTICOM CABLE, 3M #138, OR APPROVED EQUAL. THE CABLE SHALL RUN CONTINUOUSLY (NO SPACES) FROM THE END OF THE SIGNAL MAST ARM TO THE CONTROL CABINET.

ADVANCE WARNING SIGNING FOR NEW TRAFFIC SIGNAL INSTALLATION

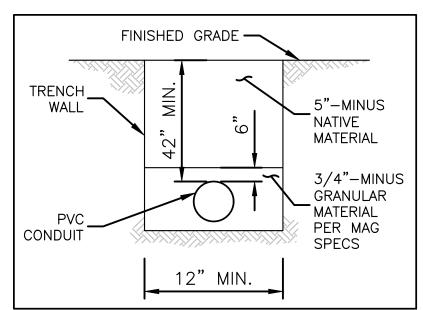




IMS	SA CABL	E 1	9-1, #1	4AWG, 4	l C	ONDUCT	'OR
SIGNAL INBOARD &	HEADS SIDEMOUNT		PEDESTRIA	AN HEADS		PUSH	BUTTON
4 CONDUC	TOR CABLE		4 CONDUC	TOR CABLE		4 CONDU	CTOR CABLE
BASIC COLOR	SIGNAL INTERVAL		BASIC COLOR	SIGNAL INTERVAL		BASIC COLOR	PUSH BUTTON STATION
RED	RED		RED	DON'T WALK		RED	PUSH BUTTON
BLACK	YELLOW		GREEN	WALK		WHITE	P.B. COM.
GREEN	GREEN		WHITE	PED. COM.		GREEN	SPARE
WHITE	VEH. COM.		BLACK	SPARE		BLACK	SPARE
THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE							

IMSA CA	BLE 19-1	, #14AWG	G, 20 CON	NDUCTOR
CABLE #1	CABLE #2	CONDUCTOR COLOR BASIC TRACER COLOR STRIPE		SIGNAL INTERVAL
ф1	ф5	RED BLACK GREEN	WHITE WHITE WHITE	RED YELLOW GREEN
ф2	ф6	RED ORANGE GREEN	 	RED YELLOW GREEN
ф3	ф7	BLACK ORANGE BLUE	RED RED RED	RED YELLOW GREEN
φ4	ф8	RED ORANGE GREEN	BLACK BLACK BLACK	RED YELLOW GREEN
φ2 PED	ф6 PED	BLUE BLACK WHITE	 BLACK	WALK DON'T WALK PUSH BUTTON
φ4 PED	φ8 PED	BLUE WHITE RED GREEN WHITE RED		WALK DON'T WALK PUSH BUTTON
ALL PHASES	ALL PHASES	WHITE BLUE	 BLACK	P.B. COM. SPARE

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



TRENCH DETAIL ELECTRIC SERVICE CONDUIT

TRAFFIC SIGNAL EQUIPMENT NOTES

- 1. THE SIGNAL CONTROL CABINET SHALL BE RELOCATED FROM THE SOUTHEAST CORNER OF THE INTERSECTION OF YAVAPAI STREET AND AIRWAY AVENUE.
- 2. THE METER PEDESTAL CABINET SHALL BE RELOCATED FROM THE SOUTHEAST CORNER OF THE INTERSECTION OF YAVAPAI STREET AND AIRWAY AVENUE.
- 3. THE UNINTERRUPTIBLE POWER CABINET SHALL BE RELOCATED FROM THE SOUTHEAST CORNER OF THE INTERSECTION OF YAVAPAI STREET AND AIRWAY AVENUE.
- 4. THE CONTRACTOR SHALL FIELD VERIFY ALL POLE LOCATIONS AND ELEVATIONS WITH THE CITY OF KINGMAN INSPECTOR, PRIOR TO ANY CONSTRUCTION ACTIVITY. ALL EXPOSED CONDUIT AND FITTINGS INSTALLED ABOVE GROUND, SHALL BE RIGID METAL TYPE PER THE STANDARD SPECIFICATIONS.
- 5. ALL 12" SIGNAL FACES SHALL HAVE 5" LOUVERED BACKPLATES.
- 6. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF THE SIGNAL CABINET AND THE NEW CONTROLLER TURN-ON, A MINIMUM OF 10 DAYS IN ADVANCE, WITH THE CITY OF KINGMAN. ALL TRAFFIC SIGNAL INDICATIONS SHALL BE LED MODULES. DUAL ARC TUBE LAMPS SHALL BE USED ON ALL HORIZONTAL MOUNTED LUMINAIRES.
- 7. THE CONTRACTOR SHALL FURNISH AND INSTALL ADVANCE WARNING SIGNING PER DETAIL ON THIS SHEET. THE COST OF FURNISHING AND INSTALLING SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SIGNAL EQUIPMENT.





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CONDUCTOR AND POLE SCHEDULE SHEET

TS-03 58 OF 58

SHEET NO.

C.O.K. PROJECT NO.

ENG 15-048

FILENAME

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