

**SURVEY NOTE:**  
 THIS PLAN IS BASED ON TOPOGRAPHIC SURVEY DATA PROVIDED BY THE CITY OF KINGMAN'S SURVEYING DIVISION. PARCEL LINE AND RIGHT-OF-WAY LINES WERE ESTABLISHED FROM GIS DATA PROVIDED BY THE CITY OF KINGMAN. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING THE ACCURACY OF THE SURVEY DATA REFERENCED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING FEATURES, PROPERTY CORNERS, PROJECT BOUNDARIES, RIGHTS-OF-WAY AND TOPOGRAPHIC SURVEY DATA PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY OF ANY DISCREPANCIES FOR RESOLUTION.

**EARTHWORK QUANTITIES**  
 NO PROJECT SPECIFIC GEOTECHNICAL INVESTIGATION HAS BEEN PERFORMED. ALL EARTHWORK IS CONSIDERED "UNCLASSIFIED."

**APPROXIMATE EARTHWORK QUANTITIES:**  
 CUT: 30 CY  
 FILL: 1,266 CY  
 NET: 1,236 CY FILL

\*THE EXCAVATION AND EMBANKMENT QUANTITIES ON THESE PLANS ARE APPROXIMATE ONLY AND IS BASED ON COMPARING THE EXISTING GROUND TO THE PROPOSED FINISHED GROUND. NO EARTHWORK VOLUME ADJUSTMENTS WERE MADE DUE TO OVEREXCAVATION AND FOOTING CONSTRUCTION, UTILITY INSTALLATION, PAVEMENT AND SUBGRADE THICKNESS, RIPRAP THICKNESS, LANDSCAPE MATERIALS, ETC. NO ALLOWANCE HAS BEEN MADE FOR SHRINK OR SWELL.

**DRAWING NUMBER & SHEET INDEX**

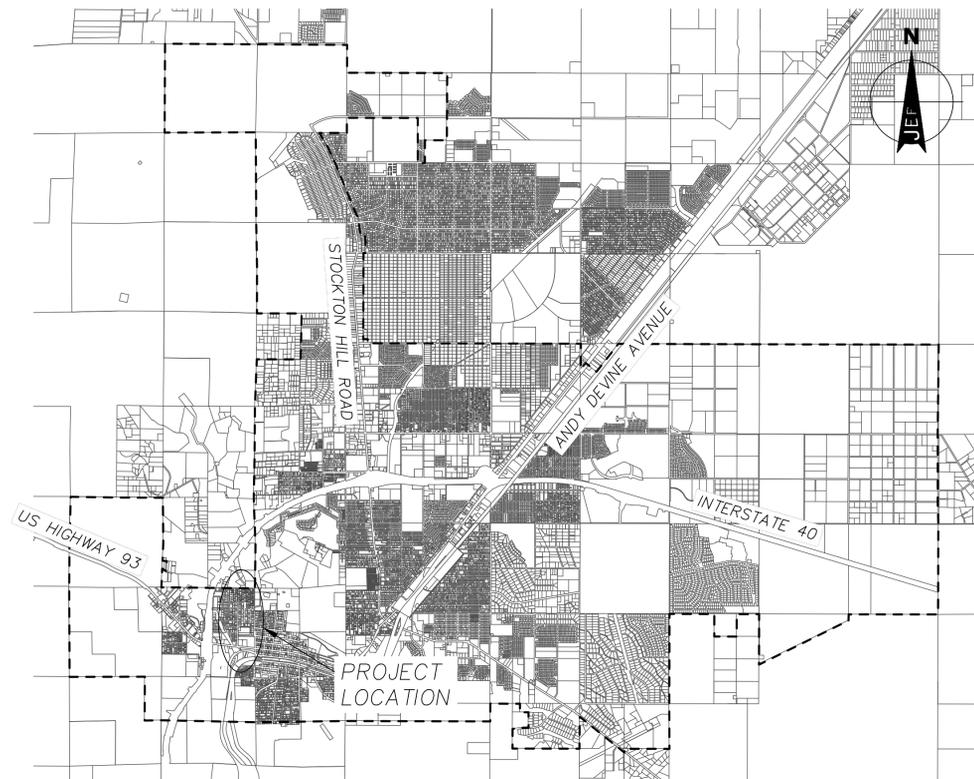
DRAWING NO.	SHEET NO.	TITLE
01	C1	COVER SHEET
02	C2	NOTES SHEET
03	C3	DETAILS SHEET
04	C4	DETAILS SHEET
05	C5	OAK ST. PLAN & PROFILE SHEET
06	C6	GRANDVIEW AVENUE PLAN & PROFILE SHEET
07	C7	GRANDVIEW AVENUE & PROFILE SHEET
08	C8	GRANDVIEW AVENUE & PROFILE SHEET
09	C9	TURQUOISE ST. AND HILVERT AVE. PLAN & PROFILE SHEET

**QUANTITIES**

Item Number	DESCRIPTION	QNTY	UNIT
<b>REMOVALS</b>			
100	SAWCUT, REMOVE AND DISPOSE OF ASPHALT	12850	SY
101	REMOVE AND DISPOSE OF EXISTING SEWER MANHOLE	3	EA
102	REMOVE AND DISPOSE OF EXISTING SEWER LINE	182	LF
103	REMOVE AND DISPOSE OF EXISTING WATERLINE	354	LF
104	REMOVE AND DISPOSE OF EXISTING WATER VALVE, BOX AND COVER	2	EA
105	REMOVE AND DISPOSE OF EXISTING WATER SERVICE CONNECTION	2	EA
150	ADJUST MANHOLE RING, FRAME AND COVER TO FINISHED GRADE	19	EA
151	ADJUST VALVE BOX AND COVER TO FINISHED GRADE	11	EA
<b>ROADWAY CONSTRUCTION</b>			
200	NEW 3" AC/6" ABC ASPHALT	2779	SY
201	NEW TYPE 'A' CONCRETE CURB AND GUTTER PER MAG STD DET 220-1	762	LF
203	NEW 3" AC/8" ABC ASPHALT	10071	SY
<b>WATER CONSTRUCTION</b>			
300	NEW VERTICAL WATER MAIN REALIGNMENT PER MAG STD DET 370	5,000	TRUE
301	NEW 8" CLASS 350 C-900 PVC WATERLINE	80	29,600
302	NEW 8" CLASS 250 GATE VALVE	2,000	4,000
303	NEW WATER SERVICE CONNECTION PER COK STD DET 344	1,500	3,000
304	NEW END OF LINE FLUSH PIPE WITH VALVE BOX AND COVER	2,500	5,000
<b>SEWER CONSTRUCTION</b>			
400	NEW SEWER MANHOLE	3	EA
401	NEW DROP SEWER CONNECTION	2	EA
402	NEW 8" PVC SEWER LINE	212	LF
<b>STORM WATER CONSTRUCTION</b>			
250	NEW 84" CMP STORMDRAIN	325	LF
251	NEW DOUBLE 98"X60" REINFORCED CONCRETE BOX CULVERT	330	LF
252	NEW 48" STORMDRAIN ACCESS RISER	6	EA
254	NEW 90" CMP STORMDRAIN	2480	LF
254	NEW 84" CMP 30 DEGREE BEND	5	EA
255	NEW 84" CMP 45 DEGREE BEND	1	EA
256	NEW CONCRETE OUTLET HEADWALL WITH SAFETY RAIL	1	EA
257	NEW 10'X24' PRECAST CONCRETE JUNCTION STRUCTURE	1	EA
258	NEW 90" CMP 30 DEGREE BEND	4	EA
259	NEW CONCRETE INLET HEADWALL WITH SAFETY RAIL	1	EA
260	NEW 18" CMP STORMDRAIN	140	LF
261	NEW MAG TYPE D CATCHBASIN WITH 17" WING	10	EA
262	NEW STORMDRAIN LATERAL PIPE CONNECTION	10	EA
263	30" THICK D50 = 12" RIPRAP PAD WITH NON-WOVEN FILTER FABRIC	150	CY
<b>EARTHWORK</b>			
	CUT AND HAUL	30	CY
	FILL	1266	CY

**DRAINAGE IMPROVEMENT PROJECT FOR:  
 GRANDVIEW AVENUE STORMDRAIN**

DEVELOPED AS PART OF THE KINGMAN  
 AREA DRAINAGE MASTER PLAN



**CITY OF KINGMAN OVERVIEW**

SCALE: 1" = 5,000'



**KEY MAP**

SCALE: 1" = 200'

**LEGEND**

- EXISTING FEATURES**
- INDEX CONTOUR (5' INTERVAL)
  - INTERIM CONTOUR (1' INTERVAL)
  - 2285 LABELS ON CONTOURS ARE NAVD88
  - PARCEL LINE
  - RIGHT OF WAY LINE
  - STREET CENTERLINE
  - SURVEY MONUMENT
  - CONCRETE
  - BACK OF CURB
  - FACE OF CURB
  - PAVEMENT EDGE
  - FENCE LINE
  - WALL LINE
  - MAIL BOX
  - SIDEWALK SCUPPER
  - STREET SIGN
  - OHE OVERHEAD ELECTRIC LINES
  - G GAS LINES
  - S SANITARY SEWER LINES
  - SD STORM DRAIN LINES
  - T TELEPHONE LINES
  - W WATER LINES
  - DM WATER METER
  - WATER VALVE
  - WATER FIRE HYDRANT
  - WATER MANHOLE
  - SM SANITARY SEWER MANHOLE
  - TELE/ELECTRIC/LIGHT POLE
  - GUY WIRE
  - GAS VALVE

- DESIGN FEATURES**
- SURVEY & CONSTRUCTION CENTERLINE
  - GRADING LIMIT
  - INDEX CONTOUR (5' INTERVAL)
  - INTERIM CONTOUR (1' INTERVAL)
  - 2315 LABELS ON CONTOURS ARE NAVD88
  - STORM DRAIN LINE
  - CATCH BASIN
  - STORM DRAIN MANHOLE
  - PAVEMENT EDGE
  - FACE OF CURB
  - BACK OF CURB
  - SIDEWALK
  - CHAINLINK FENCE
  - SIDEWALK/CONCRETE HATCH
  - RIPRAP HATCH
  - ASPHALT PAVEMENT
  - FLOW DIRECTION

**PROJECT DATA**

**ELEVATION DATA:**  
 THE ELEVATION DATUM FOR THIS PROJECT IS NAVD '88. LIDAR MAPPING WAS COMPLETED BY QUANTUM SPATIAL, INC. (QS) IN NOVEMBER 2015 (QUANTUM SPATIAL, INC., 2016), AND NEXTMAP (INTERMAP TECHNOLOGIES, 2019) AND SUPPLEMENTED BY FIELD SURVEY IF NECESSARY.

**EXISTING FEATURES:**  
 BACKGROUND DATA AND LINWORK SHOWING EXISTING FEATURES WAS PROVIDED BY THE CITY OF KINGMAN ENGINEERING DEPARTMENT (NOVEMBER 2019) AND SUPPLEMENTED BY FIELD SURVEY IF NECESSARY.

THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING THE ACCURACY OF THE SURVEY DATA REFERENCED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING FEATURES, PROPERTY CORNERS, PROJECT BOUNDARIES, RIGHTS-OF-WAY AND TOPOGRAPHIC SURVEY DATA PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY OF ANY DISCREPANCIES FOR RESOLUTION.

Contact Arizona 911 at least two full working days before you begin excavation.  
**ARIZONA 911**  
 Call 911 or click Arizona911.com

**JE FULLER**  
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 Flagstaff, AZ 86004  
 928 214-0887  
 www.jefuller.com

D	C	B	A	REVISION DESCRIPTION	BY	DATE	APP.	DATE OF ACCEPTANCE	REFERENCE DRAWINGS	<b>CITY OF KINGMAN</b> ENGINEERING DEPARTMENT	DESIGNED BY	JL	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>	DRAINAGE IMPROVEMENT PROJECT	C.O.K. PROJECT NO.	ENG19-0066
								INSPECTED BY			CHECKED BY	CF			JL	FILENAME
								310 NORTH 4TH STREET	CITY OF KINGMAN		DATE DRAWN	7/22/2020	DRAINAGE IMPROVEMENT PROJECT	FILENAME	CS.dwg	
								KINGMAN, ARIZONA 86401	ENGINEERING DEPARTMENT		HORIZ. SCALE	N/A		DRAINAGE IMPROVEMENT PROJECT	SHEET NO.	C1
								PHONE (928) 753-8122	FAX (928) 753-8118		VERT. SCALE	N/A	DRAINAGE IMPROVEMENT PROJECT		SHEET NO.	C1
												DRAINAGE IMPROVEMENT PROJECT		CONCEPTUAL DESIGN PLANS	1 OF 9	

**GENERAL NOTES**

- ENGINEERING DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS 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.
- 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 BE 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.
- OBSTRUCTIONS TO THE PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- ALL EXISTING CATCH BASINS MUST BE RE-LOCATED WHEN THEY ARE SHOWN IN A NEWLY PROPOSED DRIVEWAY.
- ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UTILITY & STORM DRAIN LINES ARE COMPLETED UNDER PROPOSED PAVED AREAS.
- UTILITY FACILITIES IN CONFLICT WITH THIS WORK SHALL BE RELOCATED BY THE CONTRACTOR. THIS ACTIVITY SHALL BE COORDINATED WITH THE OWNER OF THE UTILITY TO PREVENT ANY UNNECESSARY INTERRUPTION OF SERVICE.
- 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.
- CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
- BASE COURSE SHALL NOT BE PLACED UNTIL SUB-GRADE HAS BEEN APPROVED BY THE CITY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL CURBS, PAVEMENTS AND SIDEWALKS HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS; AND SURVEY MONUMENTS ARE INSTALLED BY A LAND SURVEYOR, REGISTERED IN THE STATE OF ARIZONA.
- 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.
- 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.
- TREES AND SHRUBBERY IN THE RIGHT-OF-WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE ENGINEERING INSPECTOR.
- IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION AND ARE BEYOND THE SCOPE OF THE DESIGN, THE CONTRACTOR MUST SUBMIT CHANGES FOR APPROVAL BY THE CITY OF KINGMAN AND THE ENGINEER.
- OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, DETAILS, AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR IS REQUIRED TO CONTACT BLUE STAKE TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION TO DETERMINE ACCURATE UTILITY LOCATIONS. THE CONTRACTOR MUST KEEP ALL BLUE STAKE REQUESTS UP TO DATE, AND COMPLY WITH APPLICABLE ARIZONA REVISED STATUTES PERTAINING TO BLUE STAKE.
- THE CONTRACTOR SHALL SUPPLY AND SET ALL STAKES FOR THE LINES, LEVELS, OR MEASUREMENTS OF THE WORK IN THEIR PROPER PLACES. ANY EXPENSE INCURRED IN REPLACING ANY STAKES WHICH THE CONTRACTOR OR HIS SUBORDINATES MAY HAVE FAILED TO PRESERVE SHALL BE THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL ALLOCATE COSTS FOR SAID SERVICES IN HIS UNIT PRICES FOR THE PROJECT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE BENCHMARK AND COMPARE THE SITE CONDITIONS WITH THE PLANS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OBSERVED. SHOULD ANY BENCHMARK, GRADE OR DESIGN INDICATED ON THE PLANS BE SUSPECT THE ENGINEER SHALL BE NOTIFIED OF SAID BENCHMARK, GRADE OR PROBLEM AT LEAST TWENTY-FOUR HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN IN THE AFFECTED AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND FURNISHING OF "AS CONSTRUCTED" RECORD PRINTS; INCLUDING THE WORK OF EACH SUB-CONTRACTOR.
- CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION (SWPP) PLAN FOR THE PROJECT AS REQUIRED UNDER THE AZPDES PERMIT PROGRAM, AND IN ACCORDANCE WITH THE 2013 STORMWATER CONSTRUCTION GENERAL PERMIT (CGP). THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND FILING ALL NOIs AND NOTs ASSOCIATED WITH THIS CONSTRUCTION ACTIVITY.
- CONTRACTOR SHALL NOT LEAVE TRENCHES OR OTHER EXCAVATIONS OPEN/UNCOVERED AFTER WORKING HOURS. CONTRACTOR SHALL FOLLOW ALL APPLICABLE OSHA STANDARDS FOR TRENCH SAFETY.
- ALL HDPE STORM DRAIN PIPE SHALL BE MANUFACTURED, DESIGNED AND INSTALLED IN ACCORDANCE WITH AASHTO M252, AASHTO M294, MAG AND THESE SPECIAL PROVISIONS.

**GENERAL NOTES (CONTINUED)**

- ALL HDPE STORM DRAIN PIPE SHALL BE TYPE 'S' CORRUGATED, WITH WATERTIGHT JOINTS.
- 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).
- 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.
- ALL HDPE PIPE CONNECTIONS TO MANHOLES SHALL MEET ASTM C-923 REQUIREMENTS.

**WATER NOTES**

- ENGINEERING DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS TELEPHONE (928) 753-8195.
- 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 M.A.G. 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.
- ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- THE CONTRACTOR IS TO NOTIFY THE PUBLIC THAT WILL BE AFFECTED BY ANY SHUTDOWNS A MINIMUM OF 48 HOURS IN ADVANCE.
- 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.
- 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.
- A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN 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.
- 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.
- ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- 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.
- ALL SERVICES SHALL RUN IN A STRAIGHT LINE FROM THE WATER MAIN TO THE METER BOX.
- NEITHER WATER SERVICE METER BOX NOR ANY PORTION OF A WATER SERVICE SHALL BE INSTALLED UNDER AN EXISTING OR PROPOSED DRIVEWAY OR SIDEWALK RAMP.
- CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- PLAN APPROVAL IS VALID FOR ONE YEAR.

**SEWER NOTES**

- ENGINEERING DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS TELEPHONE (928) 753-8195.
- ANY SEWER MAIN 15" IN SIZE OR 12" IN DEPTH, OR GREATER, REQUIRES 5' MANHOLES.
- 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.
- 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.
- 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)(f).
- ALL MANHOLES SHALL BE TESTED USING ONE OF THE FOLLOWING PROCEDURES:
  - 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.
  - 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.
- 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.
- THE ENTIRE SEWER LINE SHALL BE TESTED FOR TIGHTNESS FOR EACH PIPE MATERIAL IN ACCORDANCE WITH AAC R18-9E301(D)(2)(J).
- ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- NEW MANHOLES ARE TO BE BUILT WITHOUT STEPS.
- 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.
- 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.
- 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.
- 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.
- ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE. ANY SEWER LINES THAT ARE INSTALLED WITH LESS THAN .004 FT/FT SLOPE MUST BE INSTALLED USING A LASER.
- WHEN DIP SEWER PIPE IS USED, AN EPOXY LINING IS REQUIRED AS APPROVED BY THE CITY ENGINEER.
- CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- PLAN APPROVAL IS VALID FOR ONE YEAR.

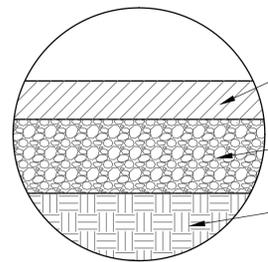
Contact Arizona 811 at least two full working days before you begin excavation




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www.jefuller.com

<b>DRAINAGE IMPROVEMENT PROJECT</b>	C.O.K. PROJECT NO. ENG19-0066
<b>CITY OF KINGMAN ENGINEERING DEPARTMENT</b>	FILENAME CS.dwg
310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>
<b>GRANDVIEW AVENUE STORMDRAIN</b>	
	SHEET NO. <b>C2</b> 2 OF 9

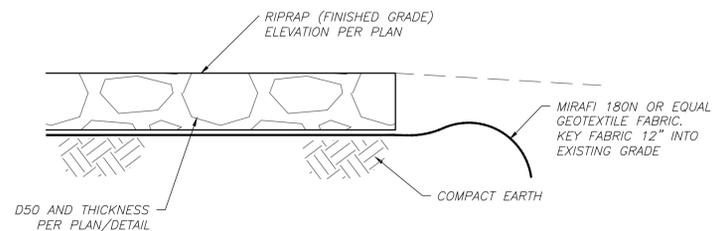
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**KEYNOTES:**

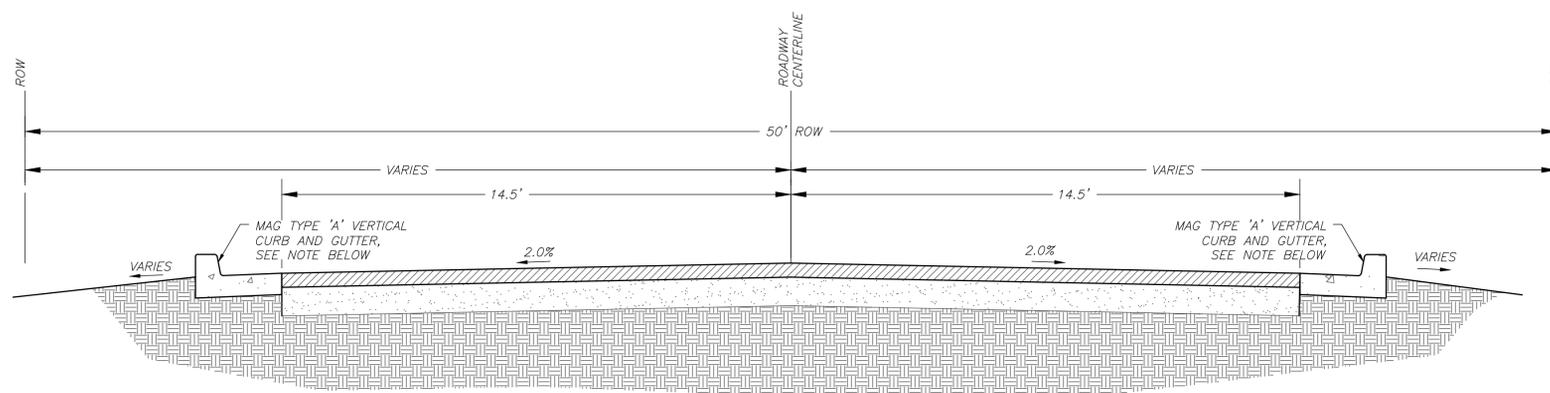
- ① 3" THICK, 3/4" ASPHALT PER MAG SPEC 321.
- ② 8" GRANDVIEW, 6" ALL OTHER STREETS, THICK AGGREGATE BASE COURSE PER MAG SPEC. SEC. 310 AS AMENDED BY CITY OF KINGMAN, COMPACTED TO 100% UNDER PAVEMENT.
- ③ SUBGRADE PREPARATION PER MAG SPEC. SEC. 301.

\* SECTION TO BE DETERMINED BY PROJECT SPECIFIC INVESTIGATION.

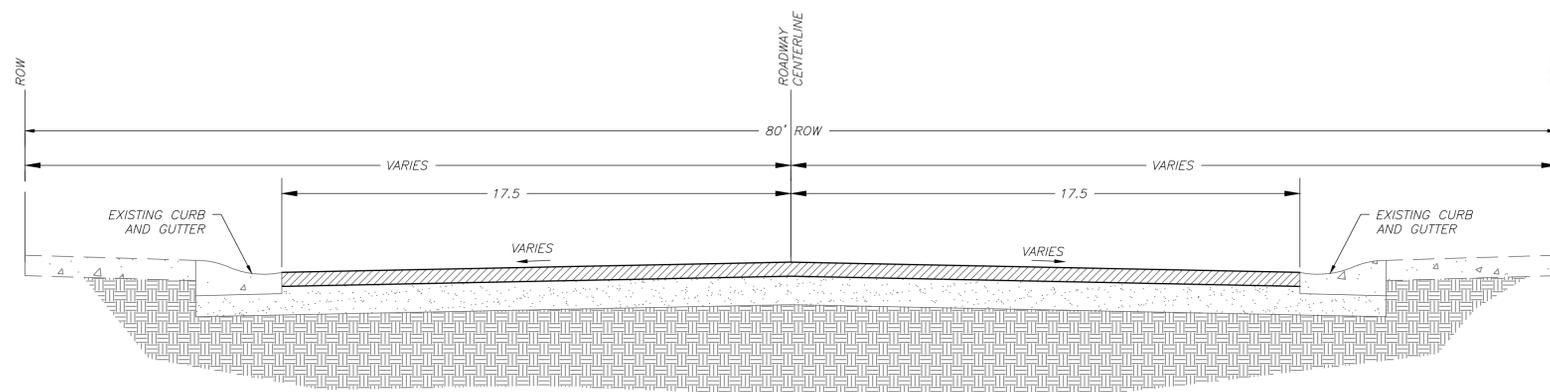


**1 TYPICAL ASPHALT PAVEMENT SECTION**  
NTS

**2 TYPICAL RIPRAP SECTION**  
NTS



**3 OAK STREET ROADWAY SECTION**  
NTS



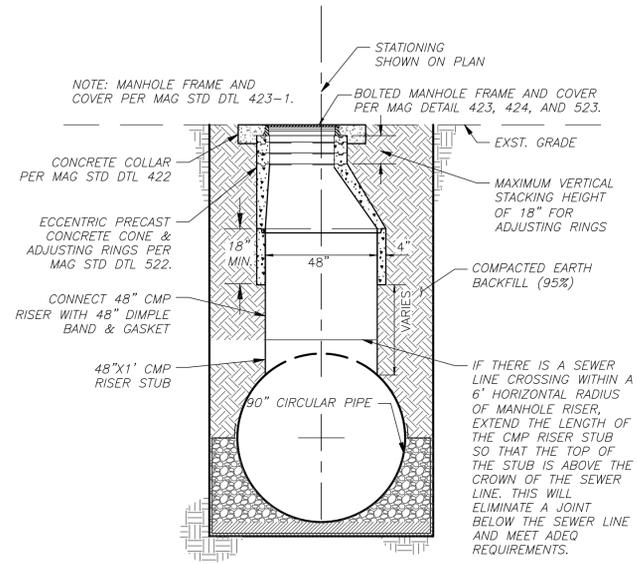
**4 GRANDVIEW AVE ROADWAY SECTION**  
NTS

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3111 N. Caden Ct. Suite 180  
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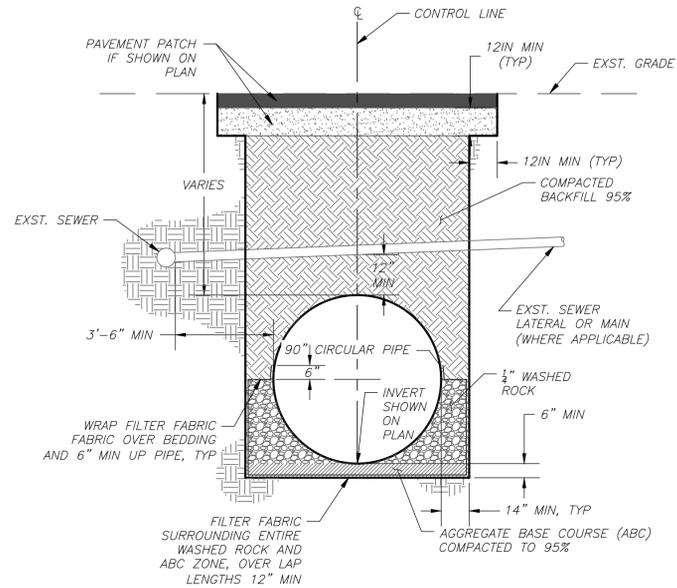
<b>DRAINAGE IMPROVEMENT PROJECT</b>	C.O.K. PROJECT NO. ENG19-0066
	FILENAME DT.dwg
<b>CITY OF KINGMAN ENGINEERING DEPARTMENT</b>	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>
<b>GRANDVIEW AVENUE STORMDRAIN DETAILS</b>	SHEET NO. <b>C3</b> 3 OF 9

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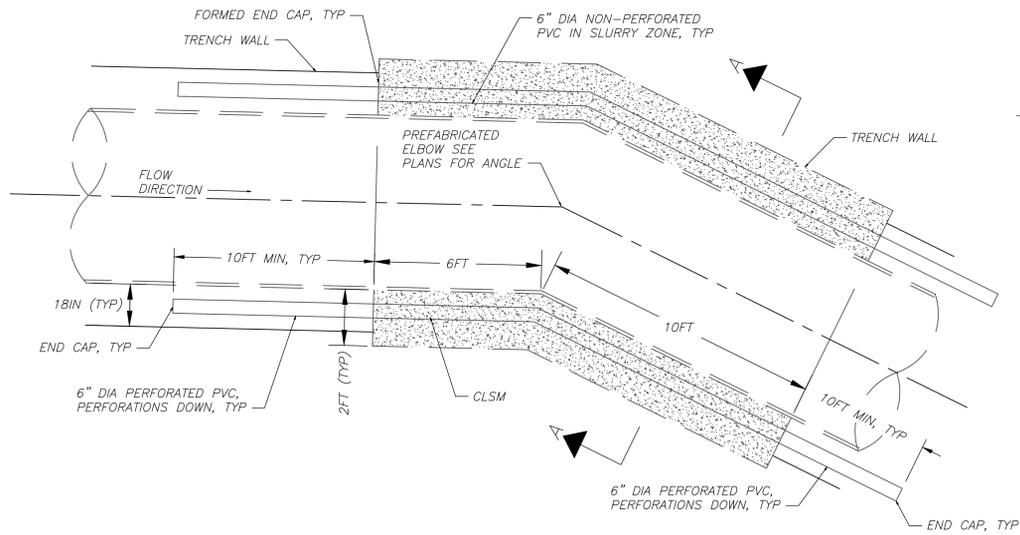
**5 STORMDRAIN 48" ACCESS RISER**

NTS



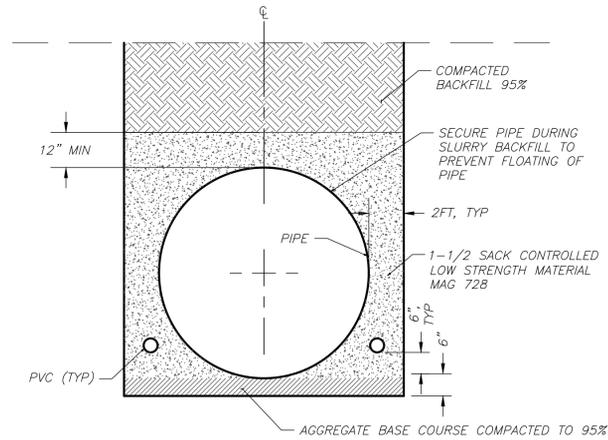
**6 CMP/HDPE TRENCH TYPICAL SECTION**

NTS



**7 CMP/ADS TRENCH SLURRY BACKFILL**

NTS



**SECTION A-A**

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**DRAINAGE IMPROVEMENT PROJECT**

C.O.K. PROJECT NO. ENG19-0066  
FILENAME DT.dwg

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

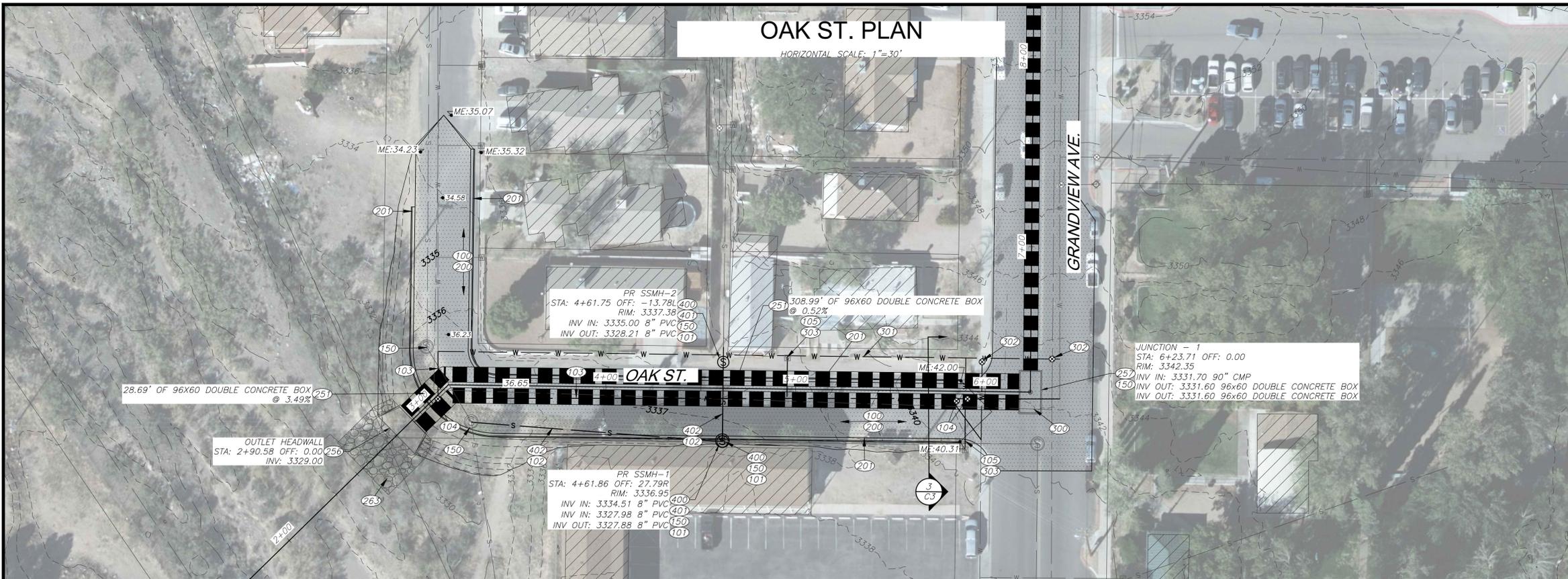
**PRELIMINARY NOT FOR CONSTRUCTION**

**GRANDVIEW AVENUE STORMDRAIN DETAILS**

SHEET NO. **C4**  
4 OF 9

# OAK ST. PLAN

HORIZONTAL SCALE: 1"=30'



### CONSTRUCTION NOTES

#### REMOVALS AND ADJUSTMENTS

- NOTE 100 SAWCUT, REMOVE AND DISPOSE OF ASPHALT.
- NOTE 101 REMOVE AND DISPOSE OF EXISTING SEWER MANHOLE, RING AND COVER.
- NOTE 102 REMOVE AND DISPOSE OF EXISTING SEWER LINE.
- NOTE 103 REMOVE AND DISPOSE OF EXISTING WATERLINE.
- NOTE 104 REMOVE AND DISPOSE OF EXISTING WATER VALVE, BOX AND COVER.
- NOTE 105 REMOVE AND DISPOSE OF EXISTING WATER SERVICE CONNECTION.
- NOTE 150 ADJUST MANHOLE RING, FRAME AND COVER TO FINISHED GRADE PER COK STD DET 422.
- NOTE 151 ADJUST VALVE BOX AND COVER TO FINISHED GRADE PER COK STD DETS 391-1 AND 391-2.

#### SITE CONSTRUCTION

- NOTE 200 NEW 3" AC/6" ABC ASPHALT PER DETAIL 1 SHEET C3.
- NOTE 201 NEW TYPE 'A' CONCRETE CURB AND GUTTER PER MAG STD DET 220-1.
- NOTE 251 NEW DOUBLE 96"x60" REINFORCED CONCRETE BOX CULVERT. TRENCHING PER DETAIL 6, SHEET C4.
- NOTE 256 NEW CONCRETE OUTLET HEADWALL PER ADOT STD DWG SD 6.01, WITH SAFETY RAIL PER MAG STD DET 145.
- NOTE 257 NEW 10"x24' PRECAST CONCRETE JUNCTION STRUCTURE.
- NOTE 263 30" THICK D50 = 12" RIPRAP PAD WITH MIRAFI NON-WOVEN FILTER FABRIC UNDER ROCK PER DETAIL 1, SHEET C2. TOP OF ROCK TO MATCH FINISH GRADE SPECIFIED ON PLANS.

#### WATER CONSTRUCTION

- NOTE 300 NEW VERTICAL WATER MAIN REALIGNMENT PER MAG STD DET 370.
- NOTE 301 NEW 8" CLASS 235 C-900 PVC WATERLINE.
- NOTE 302 NEW 8" CLASS 250 GATE VALVE.
- NOTE 303 NEW WATER SERVICE CONNECTION PER COK STD DET 344.

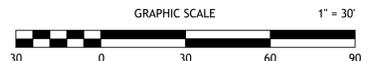
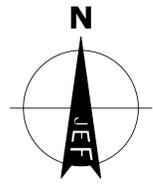
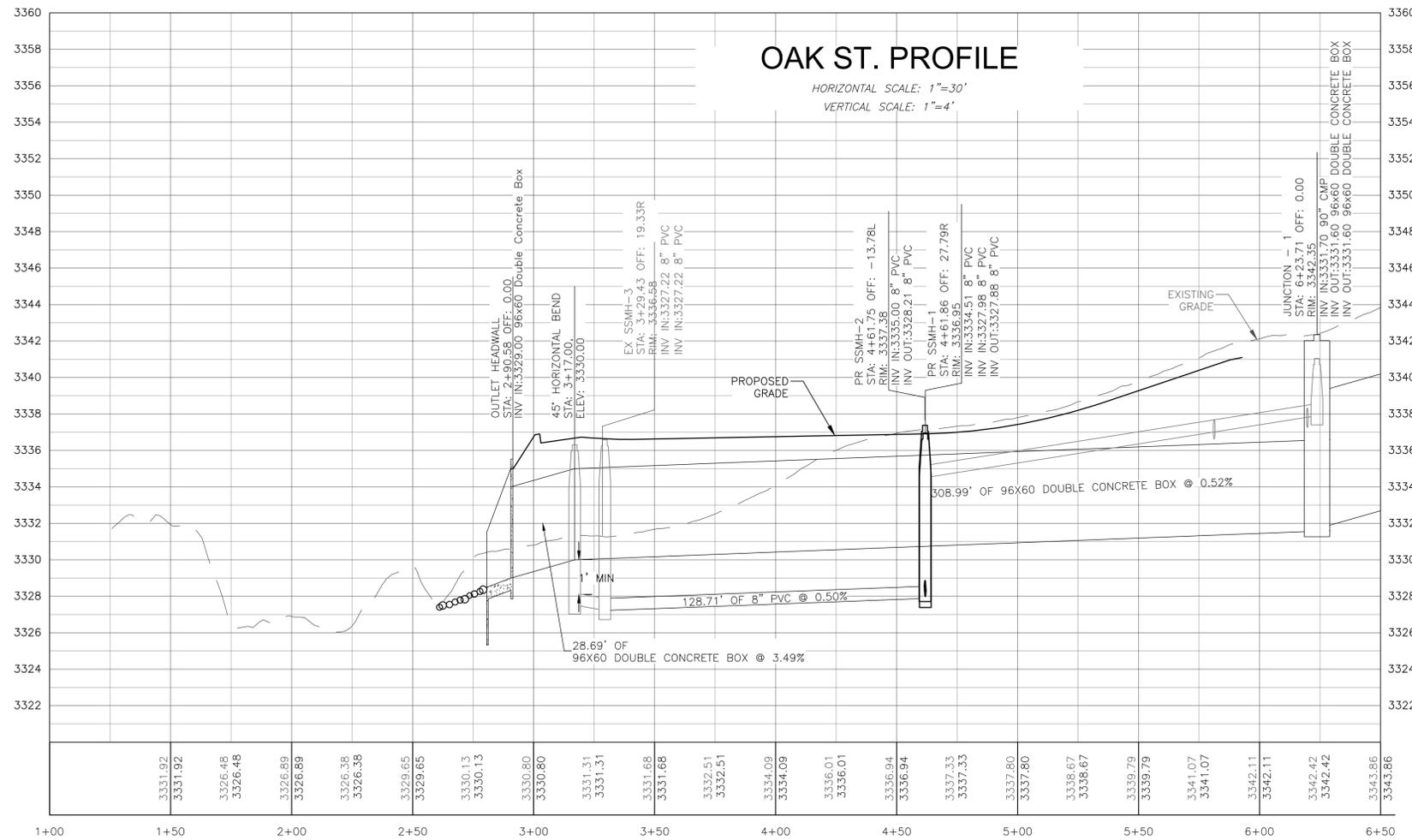
#### SEWER CONSTRUCTION

- NOTE 400 NEW SEWER MANHOLE PER COK STD DET 420-1.
- NOTE 401 NEW DROP SEWER CONNECTION PER MAG STD DET 426.
- NOTE 402 NEW 8" PVC SEWER LINE, TRENCHING PER COK STD DET 400.

# OAK ST. PROFILE

HORIZONTAL SCALE: 1"=30'

VERTICAL SCALE: 1"=4'



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**DRAINAGE IMPROVEMENT PROJECT**

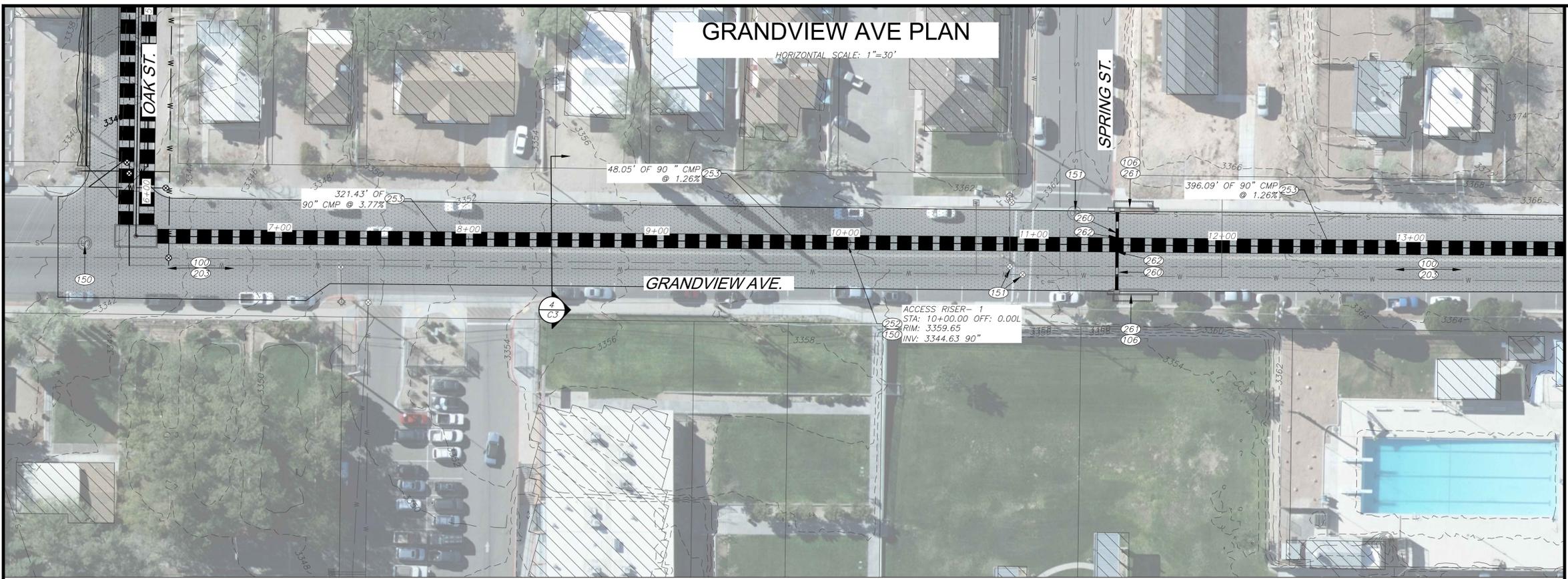
**CITY OF KINGMAN**  
ENGINEERING DEPARTMENT  
310 NORTH 4TH STREET  
KINGMAN, ARIZONA 86401  
PHONE (928) 753-8122 FAX (928) 753-8118

**GRANDVIEW AVENUE STORMDRAIN**  
OAK STREET

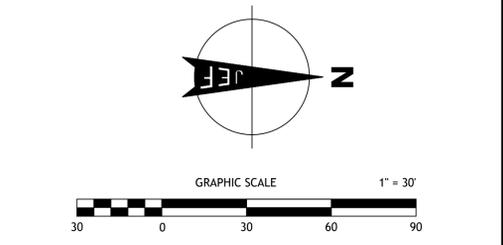
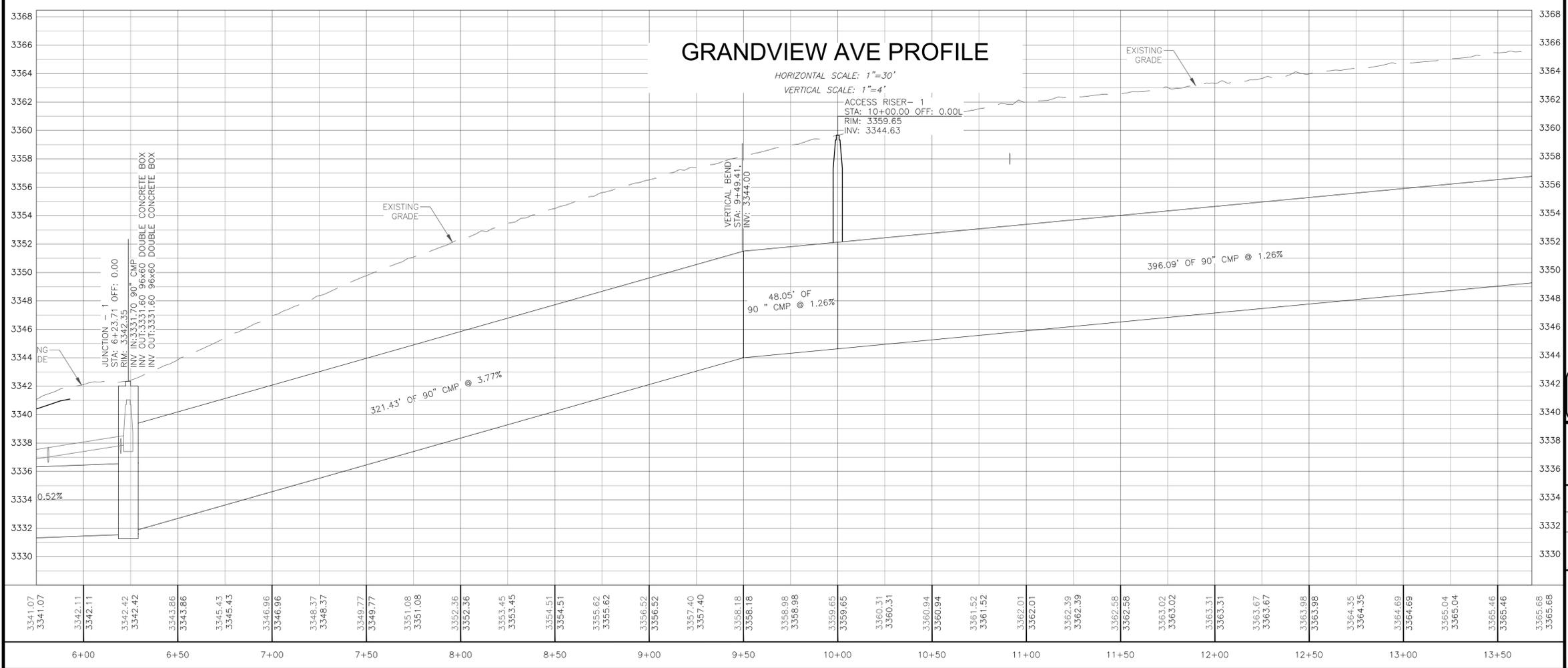
C.O.K. PROJECT NO.  
ENG19-0066  
FILENAME  
PP.dwg

**PRELIMINARY NOT FOR CONSTRUCTION**

SHEET NO.  
**C5**  
5 OF 9



- CONSTRUCTION NOTES**
- REMOVALS AND ADJUSTMENTS**
- NOTE 100  
SAWCUT, REMOVE AND DISPOSE OF ASPHALT.
- NOTE 106  
REMOVE AND DISPOSE OF EXISTING CONCRETE CURB AND GUTTER.
- NOTE 150  
ADJUST MANHOLE RING, FRAME AND COVER TO FINISHED GRADE PER COK STD DET 422.
- NOTE 151  
ADJUST VALVE BOX AND COVER TO FINISHED GRADE PER COK STD DETS 391-1 AND 391-2.
- SITE CONSTRUCTION**
- NOTE 203  
NEW 3" AC/B" ABC ASPHALT PER DETAIL 1 SHEET C3.
- NOTE 252  
NEW 48" STORMDRAIN ACCESS RISER PER DETAIL 5, SHEET C4.
- NOTE 253  
NEW 90" CMP STORMDRAIN. TRENCHING PER COK STD DET 200-1.
- NOTE 260  
NEW 18" CMP STORMDRAIN. TRENCHING PER COK STD DET 200-1.
- NOTE 261  
NEW MAG TYPE 'D' CATCHBASIN WITH 17" WING PER MAG STD DET 533.
- NOTE 262  
NEW STORMDRAIN LATERAL PIPE CONNECTION PER MAG STD DET 524.



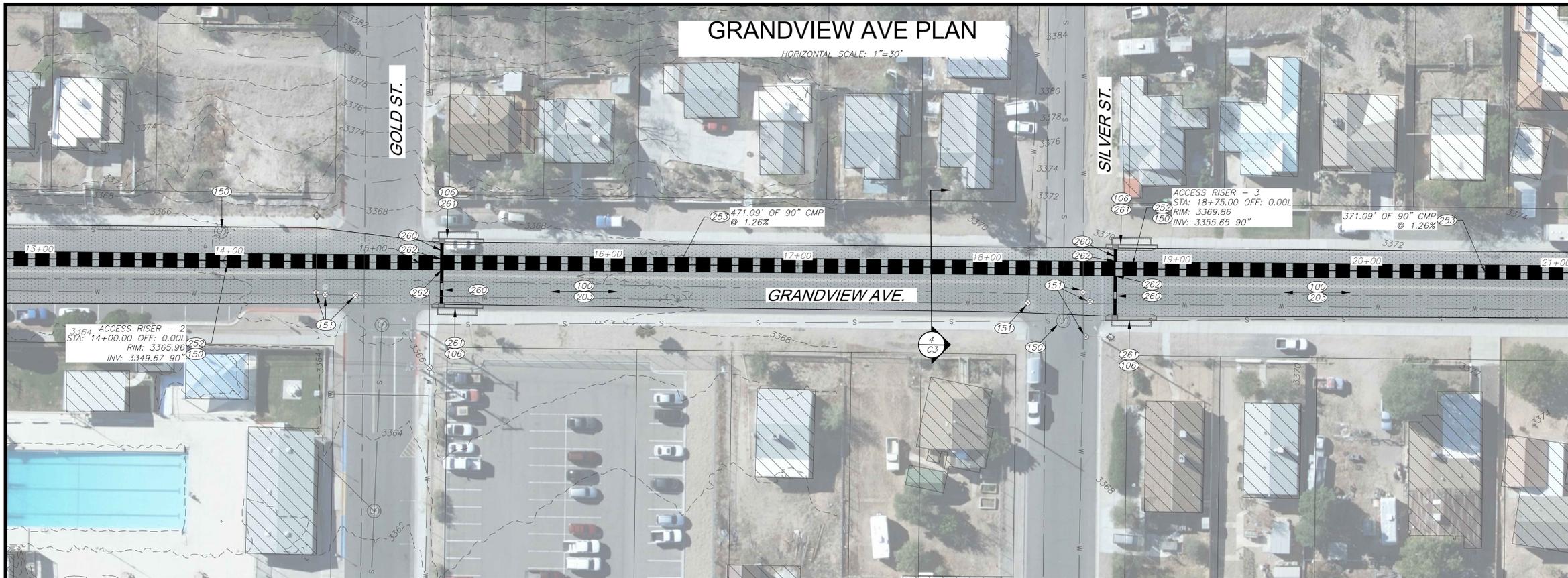
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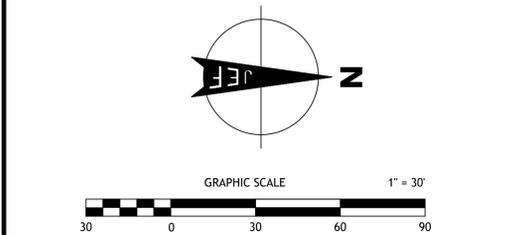
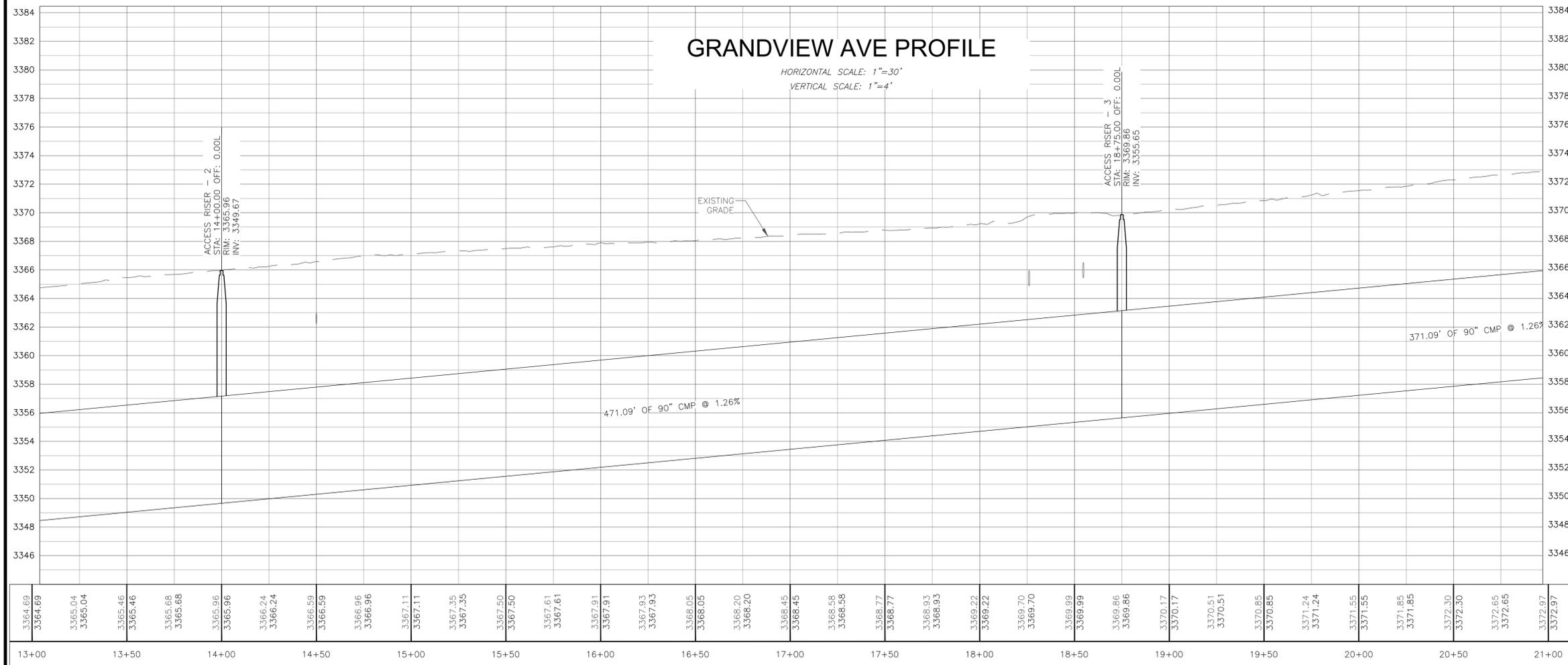
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<b>DRAINAGE IMPROVEMENT PROJECT</b>	C.O.K. PROJECT NO. ENG19-0066
<b>CITY OF KINGMAN</b> ENGINEERING DEPARTMENT 310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118	FILENAME PP.dwg
<b>GRANDVIEW AVENUE STORMDRAIN</b> GRANDVIEW AVENUE	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>
	SHEET NO. <b>C6</b> 6 OF 9

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- CONSTRUCTION NOTES**
- REMOVALS AND ADJUSTMENTS**
- NOTE 100  
SAWCUT, REMOVE AND DISPOSE OF ASPHALT.
- NOTE 106  
REMOVE AND DISPOSE OF EXISTING CONCRETE CURB AND GUTTER.
- NOTE 150  
ADJUST MANHOLE RING, FRAME AND COVER TO FINISHED GRADE PER COK STD DET 422.
- NOTE 151  
ADJUST VALVE BOX AND COVER TO FINISHED GRADE PER COK STD DETS 391-1 AND 391-2.
- SITE CONSTRUCTION**
- NOTE 203  
NEW 3" AC/B" ABC ASPHALT PER DETAIL 1 SHEET C3.
- NOTE 252  
NEW 48" STORMDRAIN ACCESS RISER PER DETAIL 5, SHEET C4
- NOTE 253  
NEW 90" CMP STORMDRAIN. TRENCHING PER COK STD DET 200-1.
- NOTE 260  
NEW 18" CMP STORMDRAIN. TRENCHING PER COK STD DET 200-1.
- NOTE 261  
NEW MAG TYPE "D" CATCHBASIN WITH 17" WING PER MAG STD DET 533.
- NOTE 262  
NEW STORMDRAIN LATERAL PIPE CONNECTION PER MAG STD DET 524.
- WATER CONSTRUCTION**
- NOTE 300  
NEW VERTICAL WATER MAIN REALIGNMENT PER MAG STD DET 370.



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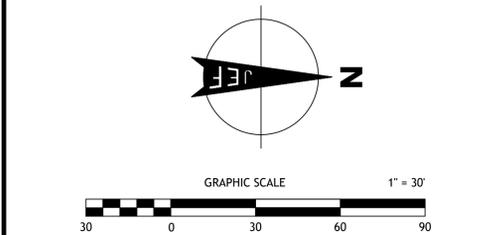
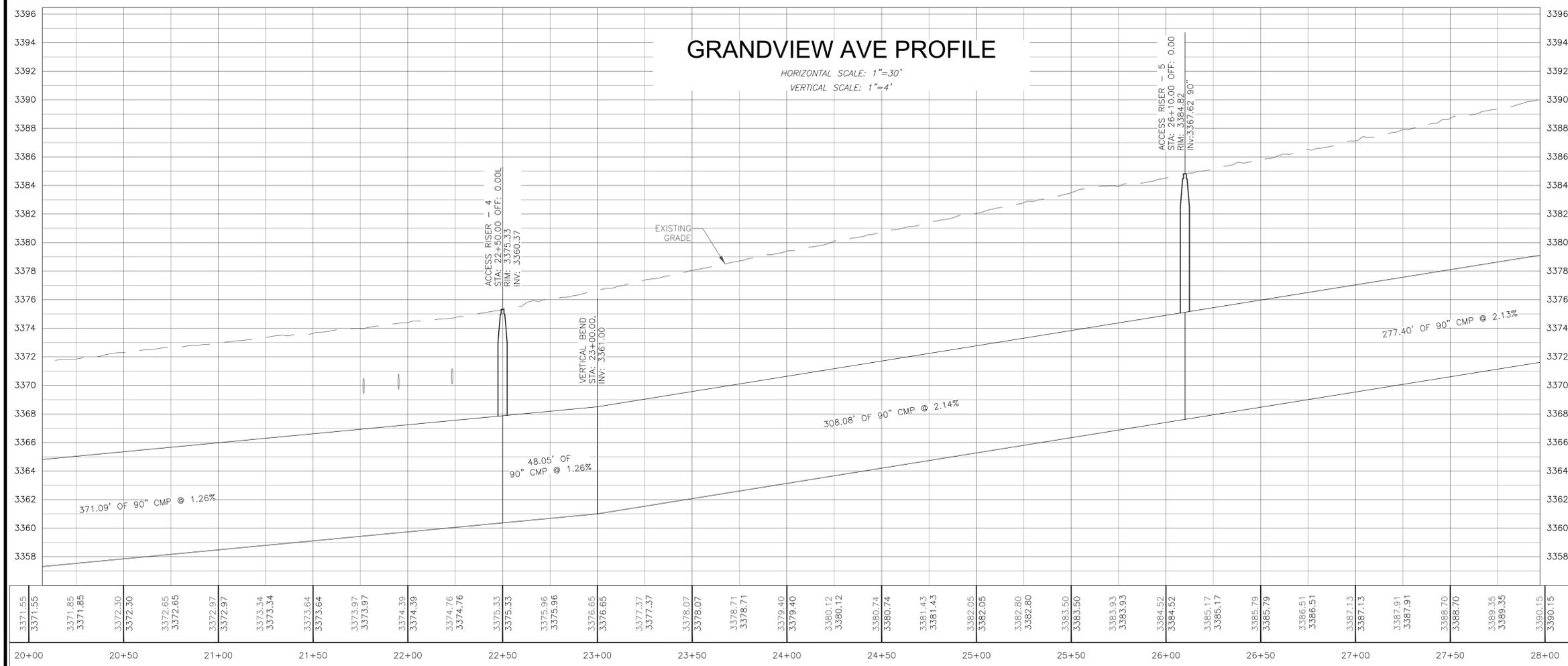
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<b>DRAINAGE IMPROVEMENT PROJECT</b>	C.O.K. PROJECT NO. ENG19-0066
<b>CITY OF KINGMAN</b> ENGINEERING DEPARTMENT	FILENAME PP.dwg
310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118	<b>PRELIMINARY NOT FOR CONSTRUCTION</b>
<b>GRANDVIEW AVENUE STORMDRAIN</b> GRANDVIEW AVENUE	
SHEET NO. <b>C7</b> 7 OF 9	

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- CONSTRUCTION NOTES**
- REMOVALS AND ADJUSTMENTS**
- NOTE 100  
SAWCUT, REMOVE AND DISPOSE OF ASPHALT.
- NOTE 101  
REMOVE AND DISPOSE OF EXISTING SEWER MANHOLE.
- NOTE 106  
REMOVE AND DISPOSE OF EXISTING CONCRETE CURB AND GUTTER.
- NOTE 150  
ADJUST MANHOLE RING, FRAME AND COVER TO FINISHED GRADE PER COK STD DET 422.
- NOTE 151  
ADJUST VALVE BOX AND COVER TO FINISHED GRADE PER COK STD DETS 391-1 AND 391-2.
- SITE CONSTRUCTION**
- NOTE 203  
NEW 3" AC/B" ABC ASPHALT PER DETAIL 1 SHEET C3.
- NOTE 252  
NEW 48" STORMDRAIN ACCESS RISER PER DETAIL 5, SHEET C4.
- NOTE 253  
NEW 90" CMP STORMDRAIN. TRENCHING PER COK STD DET 200-1.
- NOTE 260  
NEW 18" CMP STORMDRAIN. TRENCHING PER COK STD DET 200-1.
- NOTE 261  
NEW MAG TYPE 'D' CATCHBASIN WITH 17' WING PER MAG STD DET 533.
- NOTE 262  
NEW STORMDRAIN LATERAL PIPE CONNECTION PER MAG STD DET 524.



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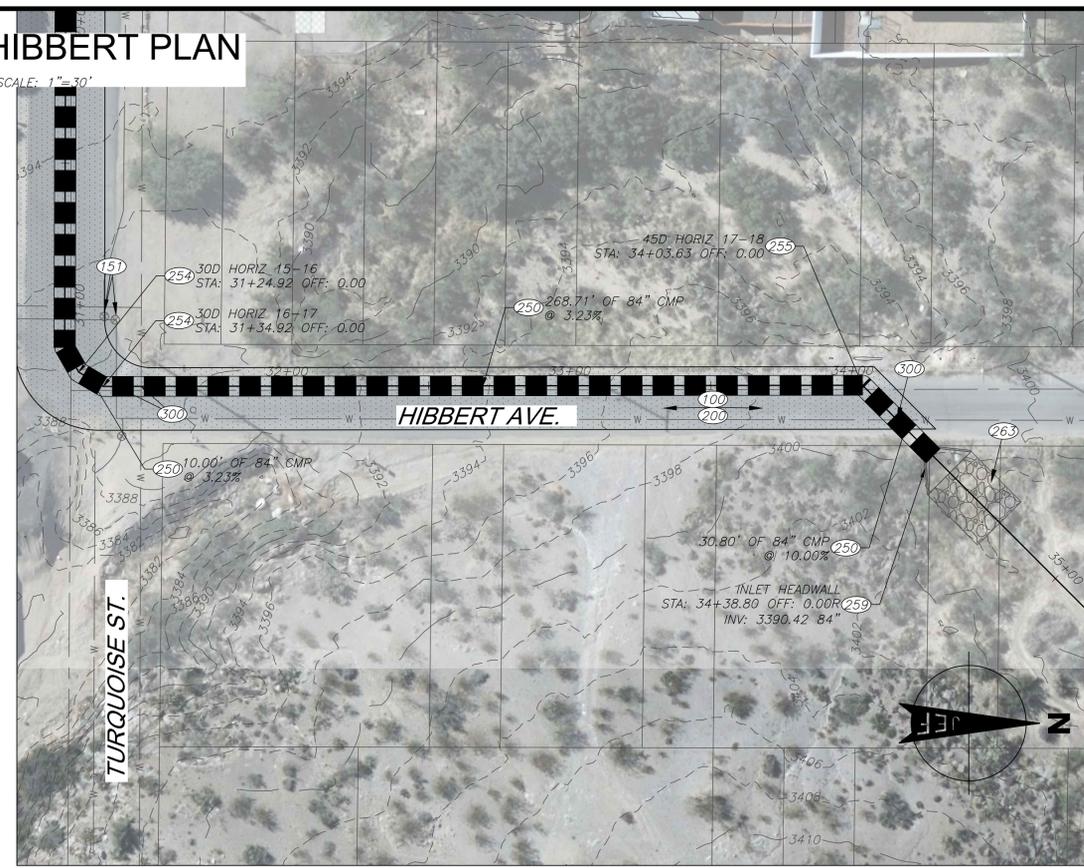
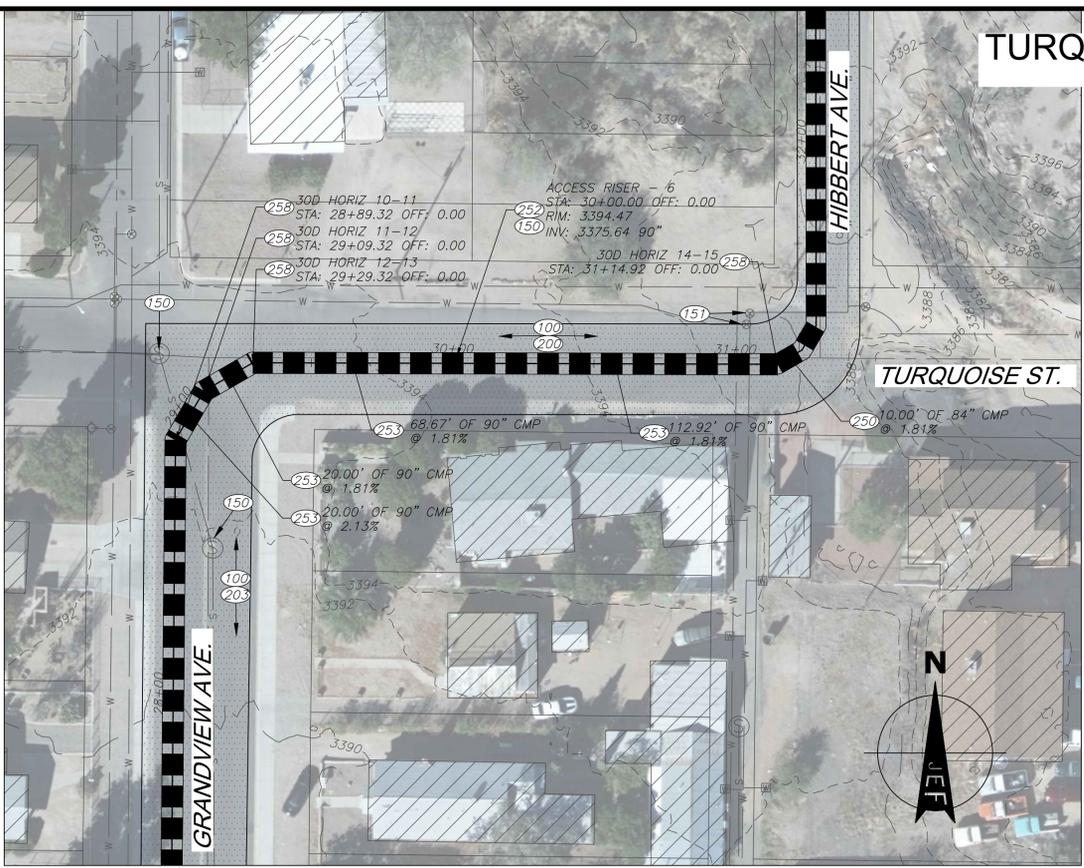
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<p><b>CITY OF KINGMAN</b> ENGINEERING DEPARTMENT</p> <p>310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118</p>	<p>FILENAME PP.dwg</p>
<p><b>GRANDVIEW AVENUE STORMDRAIN</b></p> <p>GRANDVIEW AVENUE</p>	<p>PRELIMINARY NOT FOR CONSTRUCTION</p>
<p>SHEET NO. <b>C8</b> 8 OF 9</p>	

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### TURQUOISE/HIBBERT PLAN

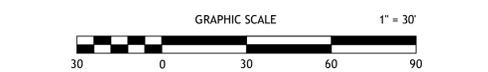
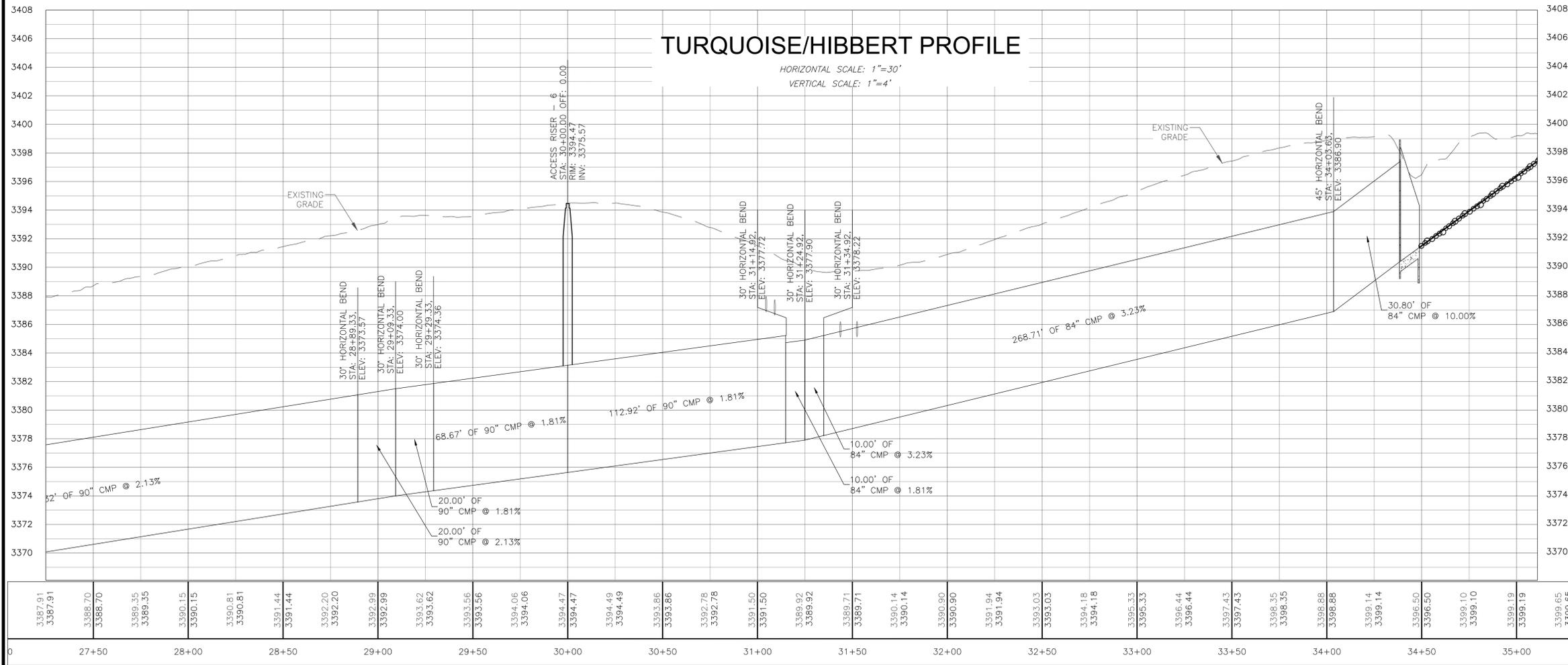
HORIZONTAL SCALE: 1"=30'



- CONSTRUCTION NOTES**
- REMOVALS AND ADJUSTMENTS**
- NOTE 100  
SAWCUT, REMOVE AND DISPOSE OF ASPHALT.
- NOTE 150  
ADJUST MANHOLE RING, FRAME AND COVER TO FINISHED GRADE PER COK STD DET 422.
- NOTE 151  
ADJUST VALVE BOX AND COVER TO FINISHED GRADE PER COK STD DETS 391-1 AND 391-2.
- SITE CONSTRUCTION**
- NOTE 200  
NEW 3" AC/6" ABC ASPHALT PER DETAIL 1 SHEET C3.
- NOTE 203  
NEW 3" AC/8" ABC ASPHALT PER DETAIL 1 SHEET C3.
- NOTE 250  
NEW 84" CMP STORMDRAIN. TRENCHING PER COK STD DET 200-1.
- NOTE 252  
NEW 48" STORMDRAIN ACCESS RISER PER DETAIL 5, SHEET C4.
- NOTE 253  
NEW 90" CMP STORMDRAIN. TRENCHING PER COK STD DET 200-1.
- NOTE 254  
NEW 84" CMP 30' BEND PER DETAIL 7, SHEET C4.
- NOTE 255  
NEW 84" CMP 45' BEND PER DETAIL 7, SHEET C4.
- NOTE 258  
NEW 90" CMP 30' BEND PER DETAIL 7, SHEET C4.
- NOTE 259  
NEW 84" INLET HEADWALL PER MAG STD DET 501, WITH SAFETY RAIL PER MAG STD DET 145.
- NOTE 263  
30" THICK D50 = 12" RIPRAP PAD WITH MIRAFI NON-WOVEN FILTER FABRIC UNDER ROCK PER DETAIL 1, SHEET C2. TOP OF ROCK TO MATCH FINISH GRADE SPECIFIED ON PLANS.
- WATER CONSTRUCTION**
- NOTE 300  
NEW VERTICAL WATER MAIN REALIGNMENT PER MAG STD DET 370.

### TURQUOISE/HIBBERT PROFILE

HORIZONTAL SCALE: 1"=30'  
VERTICAL SCALE: 1"=4'



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<b>DRAINAGE IMPROVEMENT PROJECT</b>	C.O.K. PROJECT NO. ENG19-0066
	FILENAME PP.dwg
<b>CITY OF KINGMAN</b> ENGINEERING DEPARTMENT 310 NORTH 4TH STREET KINGMAN, ARIZONA 86401 PHONE (928) 753-8122 FAX (928) 753-8118	PRELIMINARY NOT FOR CONSTRUCTION
<b>GRANDVIEW AVENUE STORMDRAIN</b> TURQUOISE ST. AND HILBERT AVE.	
SHEET NO. <b>C9</b> 9 OF 9	