

CONSTRUCTION PLANS FOR CARSON ROAD

PAVING AND UTILITY IMPROVEMENTS

THE CITY OF ALBUQUERQUE & ABCWUA
NEW MEXICO
OCTOBER 2020

RGE

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I DAVID SOULE, NMPE 14522, OF THE FIRM RIO GRANDE ENGINEERING, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFRASTRUCTURE INSTALLED AS A PART OF THIS PROJECT HAS BEEN INSPECTED BY ME OR A QUALIFIED PERSON UNDER MY DIRECT SUPERVISION AND HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE CITY, COUNTY AND ABCWUA ENGINEER AND THAT THE ORIGINAL DESIGN INTENT HAS BEEN MET, EXCEPT AS NOTED BY ME OR PERSONNEL UNDER MY DIRECTION AND SURVEY INFORMATION PROVIDED BY ANTHONY HARRIS NMPS 11463.



9/7/21



7-6-21

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH 2020 SPECIFICATIONS AND WILL BE REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS".
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- CONTRACTOR SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- CONTRACTOR SHALL NOTIFY THE CONSTRUCTION ENGINEER (OR PROJECT MANAGER) NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. ONLY THE CITY SURVEYOR SHALL REPLACE SURVEY MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO STANDARD SPECIFICATIONS SECTION 4.4.
- EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND LINES MAY EXIST WHERE NONE ARE SHOWN. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM (280-1980) FOR LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL THEN EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL PERTINENT EXISTING UTILITIES AND/OR OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. CONTRACTOR SHALL THEN COORDINATE RELOCATION OF UTILITY LINES WITH UTILITY COMPANIES AS REQUIRED. ANY DAMAGE CAUSED BY FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY EXISTING UTILITIES IS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS BUILT" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- CONTRACTOR SHALL ASSUME FINANCIAL RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, SIGNAGE, CURB AND GUTTER, HANDICAP RAMPS, AND SIDEWALK DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED ON THE PLANS, AND SHALL REPAIR OR REPLACE, PER THE STANDARD SPECIFICATIONS, ANY SUCH DAMAGE.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY AND OTHER JURISDICTIONAL AUTHORITIES WHERE APPLICABLE.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS SHOWN. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ANY SUCH COSTS INCURRED.
- REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

WATER & SEWER

- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING. EXISTING VALVES AND MANHOLES SHALL NOT BE BURIED OR PAVED OVER BUT RIMS SHALL BE ADJUSTED TO MATCH NEW GRADE PER COA STANDARD DRAWINGS 2480 AND 2481.
- MANHOLE RIMS, FIRE HYDRANT ELEVATIONS, AND FLANGE ELEVATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT OR SURFACE GRADES.
- THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT http://abcwua.org/water_shut_off_and_turn_on_procedures.aspx.
- PROPOSED WATERLINE MATERIALS SHALL BE PVC PIPE MEETING AWWA C-900; DR18 REQUIREMENTS (8" - 12") OR DUCTILE IRON PIPE MEETING AWWA C-150 REQUIREMENTS (8" - 48").
- ALL WATERLINE FITTINGS, VALVES, BENDS, TEES, CROSSES AND APPURTENANCES SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE NOTED ON THE PLANS. THE JOINT RESTRAINT REQUIREMENTS SHOULD BE DELINEATED WITHIN A JOINT RESTRAINT TABLE.
- ALL SANITARY SEWER LINE STATIONING REFERS TO SANITARY SEWER CENTERLINE STATIONING. EXCEPT WHEN PROFILED WITHIN A PROPOSED OR EXISTING STREET, WHERE STREET STATIONING SHALL GOVERN.
- ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2485.
- ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO THE CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #9. THE CONTRACTOR SHALL INSTALL A 4" X 4" X 3" POST AND EMS AT THE END OF EACH SANITARY SEWER SERVICE.
- TRACER WIRE SHALL BE INCLUDED FOR ALL PUBLIC WATER AND SEWER MAINS AND FOR WATER SERVICES IN ACCORDANCE WITH WATER AUTHORITY DETAILS.
- CONTRACTOR SHALL PROVIDE THE PROPOSED HYDRO TESTING PLANS TO THE WUA INSPECTORS FOR APPROVAL PRIOR TO BEGINNING TESTING OPERATIONS.
- AT UTILITY CROSSINGS, WHERE LESS THAN 18" OF VERTICAL SEPARATION FROM STORM DRAIN PIPING OR STRUCTURES IS PROPOSED, LEAN FILL CONSTRUCTION (PER SECTION 207 OF THE STANDARD SPECIFICATIONS) SHALL BE USED TO PROTECT THE WATER OR SEWER LINE. LEAN FILL SHALL EXTEND A PERPENDICULAR DISTANCE OF 5 FEET ON EACH SIDE OF THE STORM PIPE OR STRUCTURE.
- ALL DESIGNS AND CONSTRUCTION OF ANY UNDERGROUND UTILITIES SHALL COMPLY WITH ADMINISTRATIVE INSTRUCTION NO. 9 FOR WORK NEARBY OR AFFECTING SAN JUAN CHAMA TRANSMISSION LINES AND APPURTENANCES. INFORMATION SHALL BE PROVIDED TO THE WATER AUTHORITY ONE (1) MONTH IN ADVANCE OF THE CONSTRUCTION START DATE. INFORMATION CAN BE FOUND AT http://www.abcwua.org/water_shut_off_and_turn_on_procedures.aspx http://www.abcwua.org/water_shut_off_and_turn_on_procedures.aspx

TRANSPORTATION

- ANY STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH THERMO-PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- REMOVAL OF EXISTING CURB & GUTTER AND SIDEWALKS SHALL BE TO THE NEAREST JOINT.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- CURB AND GUTTER, SIDEWALKS, AND DRIVE PADS SHALL MATCH THE LINE AND GRADE OF ADJUTING EXISTING AREAS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER.
- THE SUBGRADE PREP SHALL EXTEND ONE FOOT BEYOND THE FREE EDGE OF NEW CURB AND GUTTER AND SIDEWALK.
- CONTRACTOR TO TEST SUBGRADE R-VALUE PRIOR TO CONSTRUCTION. IN THE EVENT THE R-VALUE IS LESS THAN 50, REMOVE 2 FEET OF SUBGRADE MATERIAL AND IMPORT MATERIAL WITH R-VALUE GREATER THAN 50 OR CONTACT THE ENGINEER IMMEDIATELY SO THE PAVEMENT SECTION CAN BE MODIFIED.
- AT ALL PAVEMENT REMOVAL AND REPLACEMENTS, SAW-CUT EDGES SHALL BE STRAIGHT AND CLEAN, AND LONGITUDINAL JOINTS SHALL NOT BE PLACED WITHIN WHEEL PATHS. PATCHES SHALL BE REGULAR AND SQUARE OR RECTANGULAR, WITH FOUR STRAIGHT SIDES. FINISHED PAVEMENT SURFACE SHALL BE FLUSH WITH EXISTING PAVEMENT SURFACE, WITH NO SPILLOVER OF ASPHALT OR TACK COAT. CARE MUST BE TAKEN TO AVOID DAMAGING THE INTEGRITY OR APPEARANCE OF SURROUNDING PAVEMENTS; IF DAMAGED, THE ENTIRE SURFACE PATCH MUST BE EXPANDED TO COVER DAMAGES.
- CONTRACTOR WILL ENSURE THE ASPHALT HAS A SMOOTH, UNIFORM EDGE WHEN REMOVING AND REPLACING CURB AND GUTTER. IF THE ASPHALT EDGE IS NOT SMOOTH AND UNIFORM, CONTRACTOR WILL SAW CUT AND REPLACE A ONE-FOOT STRIP OF ASPHALT ALONG THE FULL SECTION BEING REPLACED; REFER TO COA STANDARD DRAWING # 2485 WITH THE APPROPRIATE PAVING SECTION BASED ON ROADWAY CLASSIFICATION.
- ASPHALT SAW-CUT FOR OR CURB PEEL-OFF AT LEFT TURN LANE-CONTRACTOR SHALL VERIFY CURB NOT MONOLITHIC WITH PCP PAVEMENT PER TEST CORE.

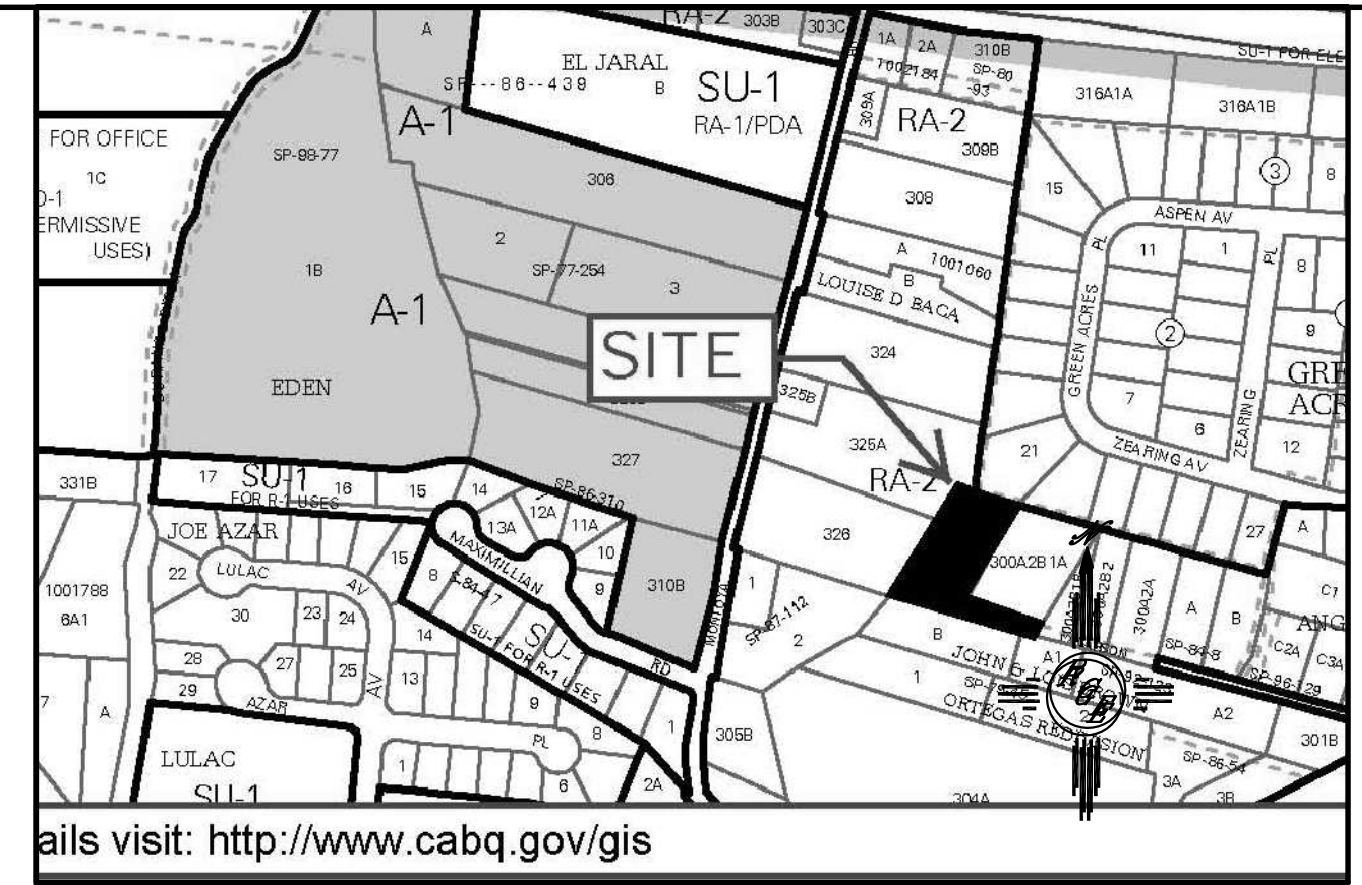
HYDROLOGY

- ALL STORM DRAINS SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED ON THE PLANS.
- RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATION. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AND WITH CITY APPROVAL.
- OTHER COMMON NOTES
- ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- WHEN DISTURBING MORE THAN ½ ACRES, CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
- IN ADVANCE OF CONSTRUCTION, CONTRACTOR SHALL DETERMINE IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
- PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
- CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
- CONTRACTOR IS TO SUPPORT, PROTECT, AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE IS TO BE SUPPORTED AT A MAXIMUM SPACING OF FIFTEEN (15) FEET. CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.
- CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS TO PREVENT ANY EXCAVATED MATERIAL BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
- CONTRACTOR SHALL CONDUCT ALL WORK IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC.
- ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
- DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL AND UNSUITABLE MATERIAL SHALL BE ARRANGED BY THE CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE ENVIRONMENTAL REGULATIONS. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR COSTS ASSOCIATED WITH OBTAINING A DISPOSAL SITE AND HAUL THERE TO.
- IF CULTURAL RESOURCES, SUCH AS HISTORIC OR PREHISTORIC ARTIFACTS, OR HUMAN REMAINS ARE DISCOVERED DURING EXCAVATION OR CONSTRUCTION, WORK SHALL CEASE AND THE CONSTRUCTION ENGINEER SHALL NOTIFY THE COUNTY OFFICE OF THE MEDICAL EXAMINER AT (505) 272-3053. IF THE MEDICAL EXAMINER DETERMINES THAT HUMAN REMAINS ARE NOT PRESENT, THE CONSTRUCTION ENGINEER SHALL NOTIFY THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AT 827-6520.

GENERAL NOTES USED SELECTIVELY, BASED ON SCOPE OF WORK:

- WORK AFFECTING ARTERIAL ROADWAYS MAY REQUIRE TWENTY-FOUR-HOUR CONSTRUCTION.
- TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHOULD NOTIFY THE TRANSIT DEPARTMENT OF ANY EFFECT WILL HAVE ON THE TRANSIT SYSTEM SUCH AS CAUSING A DETOUR, OR CAUSE THE CLOSING OR RELOCATION OF A BUS STOP. THE CONTACT PERSON IS DOUGLAS GOFF, OFFICE PHONE 505-724-3137, CELL PHONE 505-208-0151, AND E-MAIL DGOFF@CABQ.GOV [MAIL TO: DGOFF@CABQ.GOV](mailto:DGOFF@CABQ.GOV).
- STREET NAME SIGNS, REGULATORY SIGNAGE, AND ANY NECESSARY STRIPING ON PRIVATE STREETS ARE THE DEVELOPER'S RESPONSIBILITY.
- IN ALL AREAS WHERE PUBLIC STREETS OR INFRASTRUCTURE ARE TO BE CONSTRUCTED OVER FILLS, THE GEOTECHNICAL ENGINEER SHALL CERTIFY THAT PLACEMENT, COMPACTION, AND ALL OTHER WORK HAS BEEN COMPLETED IN ACCORDANCE WITH COA SPECIFICATION SECTION 204. SAID CERTIFICATION, ALONG WITH SUPPORTING TESTING DOCUMENTATION, SHALL BE PROVIDED TO THE CONSTRUCTION ENGINEER PRIOR TO OR AT THE PRE-CONSTRUCTION CONFERENCE BEFORE WORK ORDER CONSTRUCTION.
- SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO DMD, CONSTRUCTION COORDINATION DIVISION, A DETAILED CONSTRUCTION SCHEDULE.

FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE DMD, CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF STANDARD SPECIFICATIONS. PERMIT REQUESTS MAY BE DENIED OR DELAYED DUE TO CONFLICTS WITH OTHER PROJECTS IN THE AREA.



ails visit: <http://www.cabq.gov/gis>

VICINITY MAP:

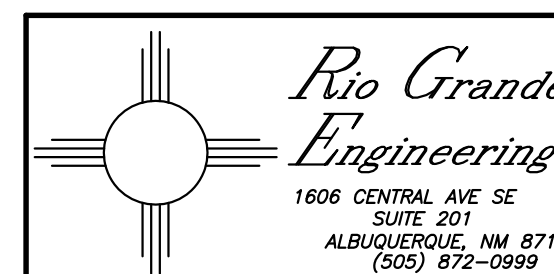
H-12-Z

APPROVED RECORD DRAWINGS

City Inspector	Arlene Sandoval
Contractor	KJ Enterprises & Development, LLC.
Construction Engineer	David Bishop
Date	1/19/2022

RECORD DRAWING

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		DRC Chairman		12/14/2020	APPROVED FOR CONSTRUCTION		
		Transportation		12/02/2020			
		Hydrology		12/02/20			
		ABCWUA		12/14/20			
		Constr. Mngmt.					
		Constr. Coord.					
		Water/Wastewater					
CITY PROJECT NO. 363888					SHEET 1 OF 4		

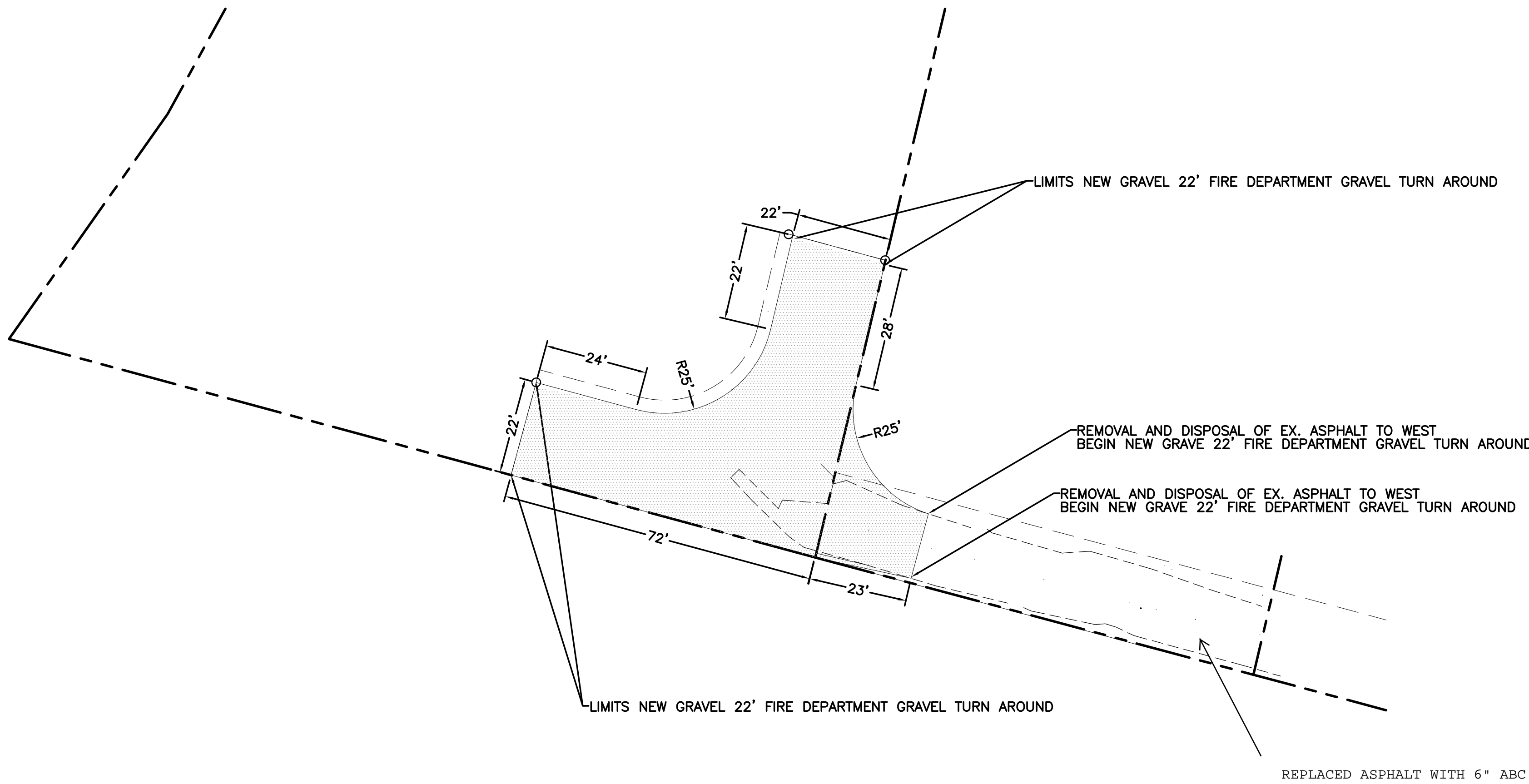


11/23/20

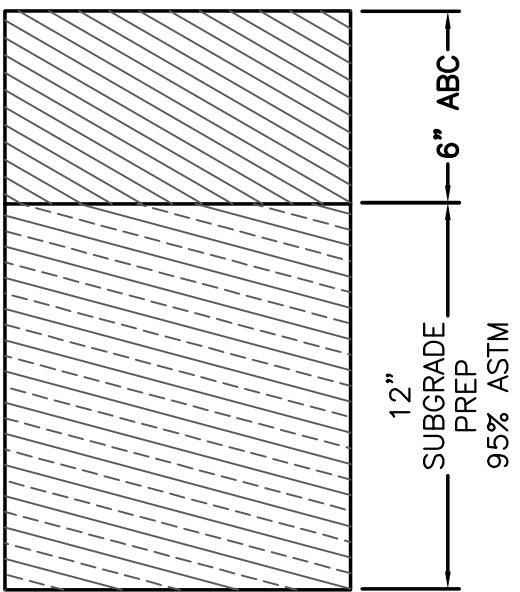
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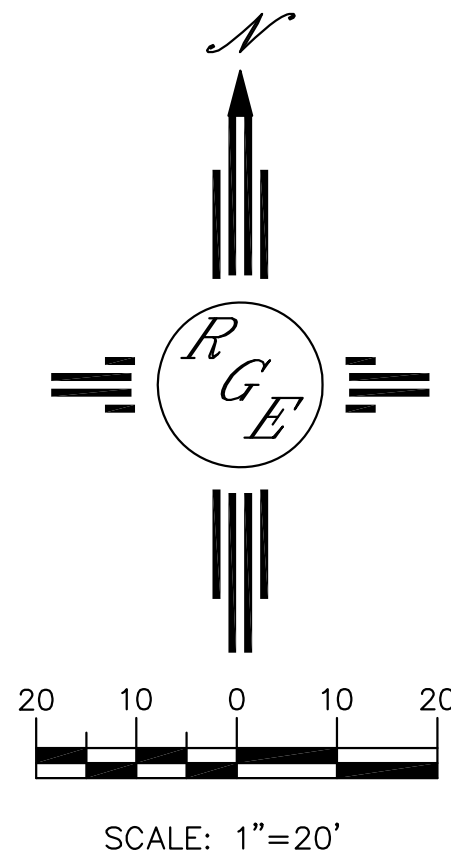
9/7/21



PAVING NOTE
SUBGRADE PREP AS PER CAO STD. SPEC. 301
ABC AS PER COA STD. SPEC. 302
1' SUBGRADE SOIL. R-VALUE>50.
PLACED IN 2-6" COMPACTED LIFTS.
95% MIN. COMPACTION, AT OPT.
MOISTURE ± 2.0%, ASTM D1557, OR
OPT. MOISTURE, TO +4%, ASTM D698
FOR SOIL W/35% OR MORE MATERIAL
PASSING THE NO. 200 SIEVE.
SOIL NOT HAVING THE MIN. R-VALUE OF
50, SHALL BE REMOVED TO A DEPTH OF
2 FEET AND REPLACED BY THE CONTRACTOR
WITH SUITABLE MATERIAL OR A PAVEMENT
ACCOMMODATING THE EXISTING R-VALUE PER
C.O.A. STANDARD SPECIFICATIONS.



22' GRAVEL ROAD PAVING SECTION




- GENERAL NOTES:**
1. ALL WALL FOUNDATIONS/TOE MUST BE OUTSIDE COA ROW.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL ROADWAY SIGNS UNTIL FINAL ACCEPTANCE.

- LEGEND**
- PROPOSED SINGLE A INLET
 - EXISTING CURB & GUTTER
 - PROPOSED CURB & GUTTER
 - BOUNDARY LINE
 - EASEMENT
 - PROPOSED SIDEWALK
 - CENTERLINE
 - RIGHT-OF-WAY
 - LOT LINES
 - NEW PAVING LIMITS

RECORD DRAWING

 2105 GOLF COURSE ROAD SUITE B RIO RANCHO, NM 87124 (505) 872-0984	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: CARSON ROAD MASTER PAVING PLAN	
DESIGN REVIEW COMMITTEE 	CITY ENGINEER APPROVAL
CITY PROJECT NO. —	ZONE MAP NO. H-12-Z
SHEET 3 OF 4	

1		42111		CHANGE TO SERVICE DETAIL		WJ		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
										FIELD NOTES					
										NO.		BY		DATE	
				REMARKS		BY									
				DESIGN											
				DESIGNED BY: WCWJ		DATE: 10-14-20									
				DRAWN BY: WCWJ		DATE: 10-14-20									
				DRAWN NAME: 2102073-LAYOUT-9-17-20		JOB NO.: 2102073									
				CHECKED BY: DS		DATE: 10-14-20									

CAUTION:
EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY.
IT SHALL BE THE SOLE RESPONSIBILITY
OF THE CONTRACTOR TO CONDUCT ALL
NECESSARY FIELD INVESTIGATIONS PRIOR
TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS. CONTRACTOR SHALL IS RESPONSIBLE
FOR ANY DAMAGE TO EXISTING UTILITIES.

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC.
SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

DEPTH OF BURY: 3.0' MINIMUM
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES
TEST PRESSURE: 150 PSI
TRENCH TYPE 4: PIPE BEDDED IN SAND, GRAVEL OR CRUSHED STONE TO
1/8 PIPE DIAMETER, 4" MINIMUM; BACKFILL COMPACTED
TO TOP OF PIPE.

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL,
GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE
RECALCULATED BY THE DESIGN ENGINEER PRIOR TO
CONSTRUCTION.

RESTRAINED JOINT LENGTHS FOR TEES*						
SIZE	LENGTH ALONG RUN**					
	5'	4'	3'	2'	1'	0'
12x12x12	6	12	17	22	27	33
12x12x10	1	3	9	15	21	28
12x12x8	1	1	1	8	16	23
12x12x6	1	1	1	1	7	18
12x12x4	1	1	1	1	1	12
10x10x10	2	7	12	17	22	28
10x10x8	1	1	4	10	17	23
10x10x6	1	1	1	1	9	18
10x10x4	1	1	1	1	1	12
8x8x8	1	3	8	13	18	23
8x8x6	1	1	1	4	11	18
8x8x4	1	1	1	1	3	12
6x6x6	1	1	2	8	13	18
8x8x4	1	1	1	1	5	12

*RESTRAINTS ONLY PLACED ON THE BRANCH
**LENGTH ALONG RUN REFERS TO THE LENGTH OF PIPE ON
EITHER SIDE OF THE TEE BEFORE THE NEXT JOINT.

RESTRAINED JOINT LENGTHS FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS (EACH SIDE)					
SIZE	HORIZONTAL BENDS				VALVES DEAD END
	90°	45°	22-1/2°	11-1/4°	
12	12	5	2	1	34
10	10	4	2	1	29
8	9	4	2	1	24
6	7	3	1	1	18
4	5	2	1	N/A	13

RESTRAINED JOINT LENGTHS FOR REDUCERS***			
SIZE	L. SIDE	SIZE	L. SIDE
12x10	17	10x6	18
12x8	18	10x4	23
12x6	25	8x6	10
12x4	29	8x4	17
10x8	10	6x4	9

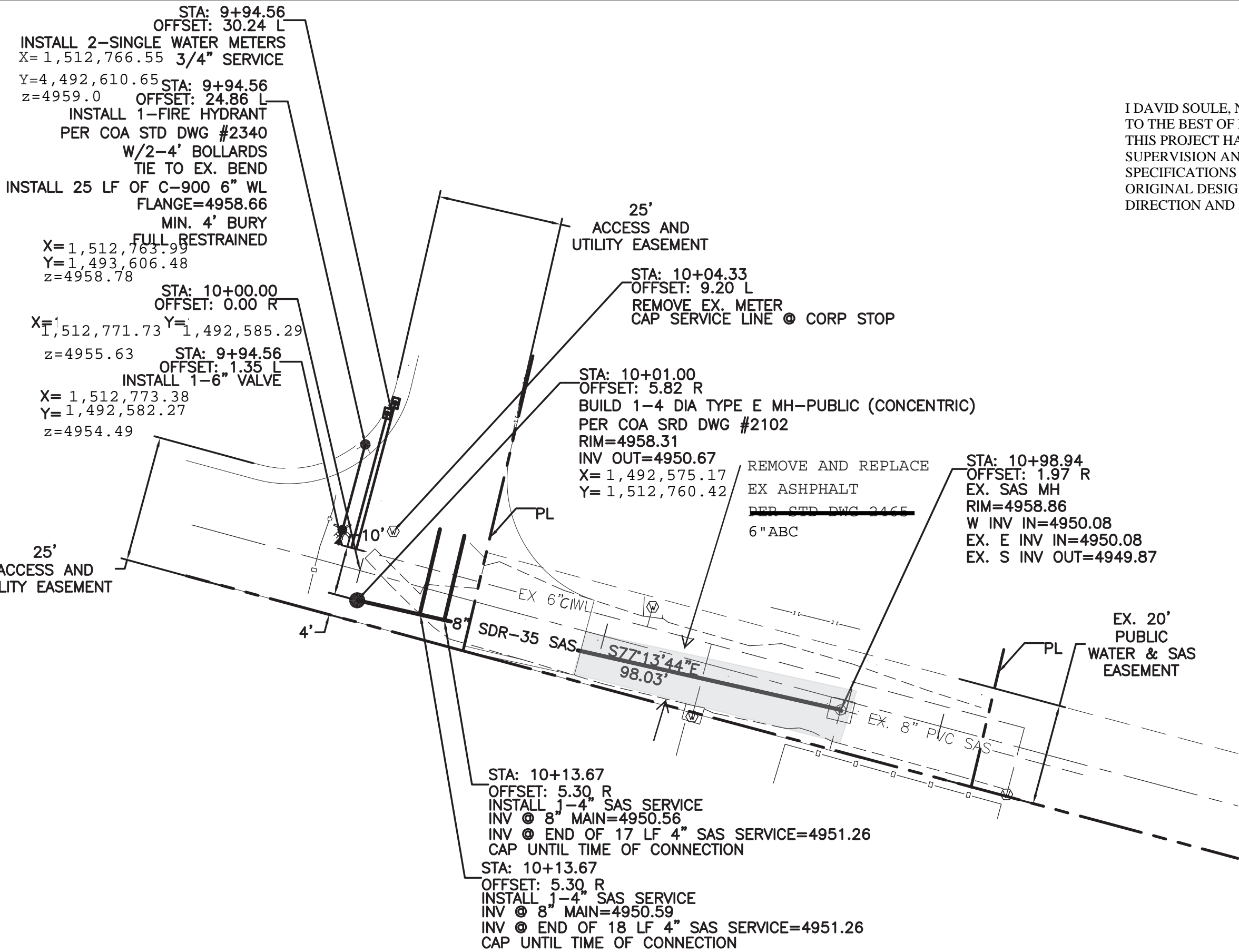
***RESTRAINTS ONLY PLACED ON LARGE LARGE SIDE

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SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

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RECALCULATED BY THE DESIGN ENGINEER PRIOR TO
CONSTRUCTION.

RESTRAINED JOINT LENGTHS FOR VERTICAL OFFSETS/BENDS (EACH SIDE)					
SIZE	HORIZONTAL BENDS				
	90°	45°	22-1/2°	11-1/4°	
12 UPPER	DON'T USE	14	7	3	
12 LOWER	DON'T USE	3	1	1	
10 UPPER	DON'T USE	12	6	3	
10 LOWER	DON'T USE	2	1	1	
8 UPPER	DON'T USE	10	5	2	
8 LOWER	DON'T USE	2	1	N/A	
6 UPPER	DON'T USE	8	4	2	
6 LOWER	DON'T USE	1	1	N/A	
4 UPPER	DON'T USE	5	3	1	
4 LOWER	DON'T USE	1	N/A	N/A	



I DAVID SOULE, NMPE 14522, OF THE FIRM RIO GRANDE ENGINEERING, HEREBY CERTIFY THAT
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFRASTRUCTURE INSTALLED AS A PART OF
THIS PROJECT HAS BEEN INSPECTED BY ME OR A QUALIFIED PERSON UNDER MY DIRECT
SUPERVISION AND HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND
SPECIFICATIONS APPROVED BY THE CITY, COUNTY AND ABCWUA ENGINEER AND THAT THE
ORIGINAL DESIGN INTENT HAS BEEN MET, EXCEPT AS NOTED BY ME OR PERSONNEL UNDER MY
DIRECTION AND SURVEY INFORMATION PROVIDED BY ANTHONY HARRIS NMPS 11463.



9/7/21

LEGEND

	EXISTING SAS MH
	EXISTING SANITARY SEWER LINE
	EXISTING VALVE W/BOX
	EXISTING WATER LINE
	PROPOSED METER
	EXISTING EDGE OF PAVEMENT
	PROPOSED EDGE OF ROAD
	BOUNDARY LINE
	CENTERLINE
	RIGHT-OF-WAY
	LOT LINES
	EASEMENT

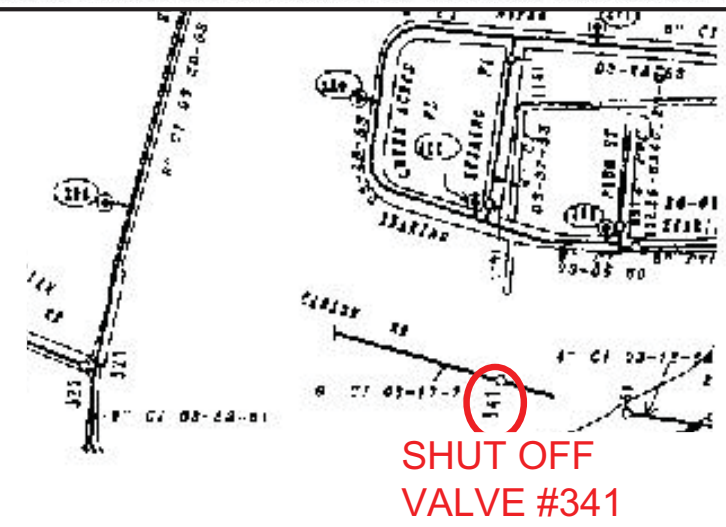
NOTE:

- SEE MASTER UTILITY PLAN FOR SANITARY
SEWER SERVICE CONNECTION DETAILS.
- ALL MH SHALL BE PER COA STD DWG #2102
- ALL EXISTING UTILITY CONNECTION LOCATIONS
AND INVERTS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- WATER VALVES SHALL BE PER COA STD DWG
#2326, 2328, 2461.
- ALL VALVE BOXES SHALL BE POLYMER COATED
12" CMP.
- ALL WATER SERVICES SHALL BE PER COA STD DWG
#2361, 2362, 2366, 2368.
- ALL NEW WATERLINES SHALL HAVE TRACER WIRE INSTALLED PER
SUPPLEMENTAL SECTION 33 05 26.23
- WATER SERVICES SHALL BE PERPENDICULAR O THE MAIN AND HAVE NO BENDS OR FITTINGS

WATER SHUTOFF NOTES-SHUT OFF VALVE

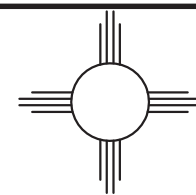
WATER SHUTOFF NOTES:

- THE CONTRACTOR SHALL COORDINATE WITH THE WATER UTILITY AUTHORITY
SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE
PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING
SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE
COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF
PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO
OPERATE PUBLIC VALVES. SHUT OFF REQUEST MUST BE MADE ONLINE AT
[HTTP://ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCEDURES.ASPX](http://abcwua.org/water_shut_off_and_turn_on_procedures.aspx)
- VALVES SHALL BE OPERATED BY ABCWUA EMPLOYEES ONLY.



RECORD DRAWING

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



ABCWUA
PUBLIC WORKS DIVISION
ENGINEERING GROUP

TITLE:

CARSON ROAD
CARSON ROAD UTILITY IMPROVEMENTS
PLAN AND PROFILE



LAST DESIGN UPDATE

MO./DAY/YR.	MO./DAY/YR.

PROJECT # 363888

ZONE MAP NO.
H-12-Z

SHEET 4 OF 4