HOLLY AVE WATERLINE EXTENSION

ALBUQUERQUE, NEW MEXICO

JULY 2016

PREPARED FOR:

RETAIL SOUTHWEST DEVELOPMENT 8220 SAN PEDRO NE SUITE 500 ALBUQUERQUE, NM 87110

PREPARED BY: ISAACSON & ARFMAN, P.A. 128 MONROE ST. NE ALBUQUERQUE, NM 87108

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION AS AMENDED WITH UPDATE #9.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE & VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
- 4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE. NM 811, FOR LOCATION OF EXISTING UTILITIES.
- 5. CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY, AND TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS. THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, AS AMENDED WITH UPDATE #8.
- 6. THE CONTRACTOR AGREES THAT HE 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: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER & ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED. IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- 7. TRAFFIC CONTROL: SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PRE-FORMED THERMOPLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS SHOWN IN THIS PLAN SET.
- 8. WHEN ABUTTING EXISTING PAVEMENT TO NEW, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.
- 9. EXISTING CURB AND GUTTER NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE PER COA STD DWG #2415A
- 10. SUPPLEMENTAL SPECIFICATION: ALL BACKFILL FOR WATER LINE AND SANITARY SEWER LINE TRENCHES SHALL BE COMPACTED TO A MINIMUM 95% MAXIMUM DENSITY PER ASTM D-1557.

- 11. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
- 12. PROPOSED WATERLINE MATERIALS SHALL BE EITHER PVC PIPE MEETING AWWA C900 DR-18 REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE, THICKNESS CLASS 50 (6"-16").
- 13. ALL SANITARY SEWER LINE MATERIALS SHALL BE PVC SDR-35 PIPE.
- 14. ALL FITTINGS ON WATERLINES SHALL HAVE RESTRAINED JOINTS AS NOTED ON PLANS.
- LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO ENSURE 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. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. 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 SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS UPDATE #9.
- 16. 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.
- 17. WARNING--EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY. AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY. THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES. RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.
- 18. ANY WORK OCCURRING WITHIN A FULLY DEVELOPED ARTERIAL ROADWAY REQUIRES 24 HR. CONSTRUCTION -AS ALLOWED BY THE CITY.
- 19. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART

- 20. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT
- 21. THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF
- 22. TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE ENGINEER.
- 23. PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. THE ROAD SHALL NOT BE OPENED TO THE TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING. PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF PREFORMED THERMO-PLASTIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 24. ELECTRONIC MARKING SPHERES (EMS) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #9.
- 25. ALL WATER VALVE BOXES AND MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.
- 26. 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://www.abcwua.org/ Water_Shut_off_and_Turn_on_Procedures.aspx.
- 27. CONTRACTOR SHALL SUPPORT ALL EXISTING. UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
- 28. 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 RECORD DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN
- 29. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY.
- 30. THE CONTRACTOR SHALL NOTIFY THE ALBUQUERQUE TRAFFIC ENGINEERING DIVISION THRU DRC CHAIR THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT REMOVES, RELOCATES, OR REINSTALLS ANY EXISTING REGULATORY SIGNS.
- 31. RCP PIPE JOINTS SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. 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 AFTER CITY APPROVAL.
- 32. IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE MEASURES TO PREVENT ABRUPT PAVEMENT CHANGES. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

- 33. CONTRACTOR SHALL REPLACE IN KIND ANY EXISTING STRIPING OR ANY OTHER PAVEMENT MARKINGS IMPACTED BY THE WORK. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN EXISTING PEDESTRIAN AND ADA PATHWAYS DURING CONSTRUCTION OR PROVIDE AN ALTERNATE ROUTE OR PROVIDE "SIDEWALK CLOSED" SIGNAGE.
- UTILITIES IMMEDIATELY AND WITHOUT DELAY.
- 36. TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHOULD NOTIFY THE TRANSIT DEPARTMENT OF ANY TRANSIT SYSTEM SUCH AS CAUSING A DETOUR. OR CAUSE THE CLOSING OR RELOCATION OF A BUS STOP THE CONTACT PERSON IS SHABIH RIZVI. OFFICE PHONE 505-724-3134, CELL PHONE 505-331-0253, AND EMAIL SRIZVI@CABQ.GOV AND/OR DOUGLAS GOFF, OFFICE PHONE 505-724-3137, CEL PHONE 505-206-0151, AND EMAIL DGOFF@CABQ.GOV.
- 35. CONTRACTOR SHALL REPAIR OR REPLACE DISTURBED

RECORD

DRAWING

APPROVED AS RECORD DRAWINGS

DESIGN REVIEW SECTIONS

CITY CONSTRUCTION ENGINEER

DATE: 11/9/617

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg NMPS No. 9750 2/29

SURVEYORS CERTIFICATION



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

INDEX TO DRAWINGS

3 - MASTER UTILITY PLAN

4 - WATERLINE PLAN & PROFILE

SHEET NO. - TITLE

1 - COVER

2 - SURVEY

KINNEY DAM

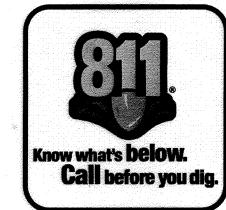
PARK & **ELATED FACILITIES**

SITE

ALBUQUERQUE

C-19

I, Fred C. Arfman of the firm of Isaacson & Arfman, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction and survey information provided by Russ P. Hugg, PS #9750, Surv-Tek, Inc.



NORTH DOMINGO

BACA PARK

CITY ENGINEER DATE USER DEPARTMENT USER DEPARTMENT ENGINEERS STAMP & SIGNATURE APPROVED FOR CONSTRUCTION **FNGINFFR**

DRB NO.

ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87108 Ph. 505-268-8828 www.iacivil.com

Jul 21,2016

This set of drawings is accepted for RECORD

Purposes by Irm Cynor

on 1.4.17 ABONDAEN NEW

TAMP & SIGNATURE	APPROVALS	
	DRC Chairman	
C. AREA	Transportation	K
MER	Water/Wastewater	\$
10 M	Hydrology	1/2
7322	Constr. Mngmt.	
T. M.	Constr. Coord.	
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RECORD MAWING

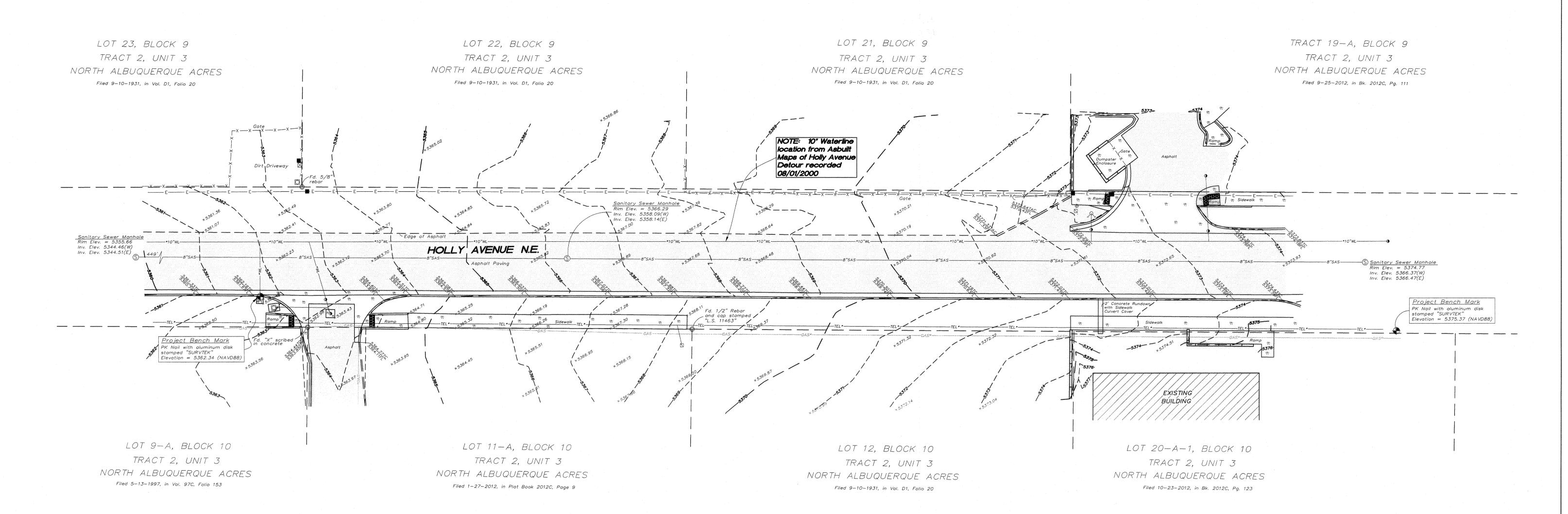
1964 & # 3 A.

RECORD DRAWING

TOPOGRAPHIC SURVEY A PORTION OF

HOLLY AVENUE N.E.

THE ELENA GALLEGOS GRANT PROJECTED SECTION 18, TOWNSHIP 11 NORTH, RANGE 4 EAST NEW MEXICO PRINCIPAL MERIDIAN CITY OF ALBUQUEROUE BERNALILLO COUNTY, NEW MEXICO JUNE, 2016



THIS IS NOT A BOUNDARY SURVEY, APPARENT

PROPERTY CORNERS ARE SHOWN FOR ORIENTATION

ONLY. BOUNDARY DATA SHOWN IS FROM PREVIOUS

SURVEYS REFERENCED HEREON.

LEGEND

□ TELEPHONE PEDESTAL BLOCK WALL WATER METER CONCRETE AREA HYDRANT

SANITARY SEWER MANHOLE WATER VALVE

RAISED TRUNCATED DOME MAT CONCRETE CURB & GUTTER 5365.82TC TOP OF CONCRETE CURB AND FLOW LINE ELEVATION

5365.82TAC TOP OF ASPHALT CURB AND FLOW LINE ELEVATION

GAS LINE

--- TEL --- UNDERGROUND TELEPHONE LINE CABLE PEDESTAL

ELECTRIC PEDESTAL POWER POLE POWER POLE WITH FEED GUY-WIRE ANCHOR

----E--- OVERHEAD UTILITY LINE

NOTE: Utility labels or notes accompanied by an asterisk (*) are from provided plans and need to be verified by the respective utility company.

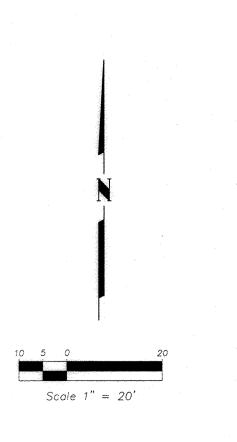
UTILITY DISCLAIMER

EVIDENCE OF UTILITIES TO DEVELOP A VIEW OF THOSE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION MAY BE NECESSARY. NEW MEXICO ONE CALL (NM811) LOCATE REQUEST CONFIRMATION LINE-SPOTTING TICKET NO. 16FE150507, DATE: 2/15/2016. UTILITIES LABELED WITH AN ASTERISK (*) ARE DERIVED OR TRANSCRIBED FROM PROVIDED PLANS AND MUST BE VERIFIED BY THE APPROPRIATE UTILITY. THERE MAY PRIVATE UNDERGROUND UTILITY LINES NOT WITHIN DOCUMENTED EASEMENTS THAT WERE NOT MARKED OUT BY UTILITY LINE—SPOTTING COMPANIES NOTIFIED BY NEW MEXICO ONE CALL (NM811). THIS PROJECT WAS CALLED IN TO NEW MEXICO ONE CALL (NM811) AS A "DESIGN LOCATE". SOME UTILITY LINE-SPOTTING COMPANIES NOTIFIED BY NEW MEXICO ONE CALL (NM811) CONSIDER "DESIGN LOCATE" CALLS AS LOW PRIORITY AND IN SOME CASES DELAY RESPONSE, PARTIALLY COMPLETE OR NOT RESPOND AT ALL. ANY PIPE SIZES OR MATERIAL TYPES SHOWN HEREON WERE DERIVED FROM ASBUILT PLANS AS

SOURCE INFORMATION FROM PLANS AND MARKINGS HAVE BEEN BE COMBINED WITH OBSERVED

PROVIDED BY THE VARIOUS UTILITY COMPANIES. SURV-TEK, INC. MAKES NO REPRESENTATION THAT SAID INFORMATION IS CURRENT OR ARCHITECT, ENGINEER AND CONTRACTOR WILL BE RESPONSIBLE FOR VERIFICATION OF SAID INFORMATION DURING THEIR DESIGN PROCESS.

QUALIFIED SUBSURFACE UTILITY ENGINEERING (SUE) SERVICES MAY BE REQUIRED.

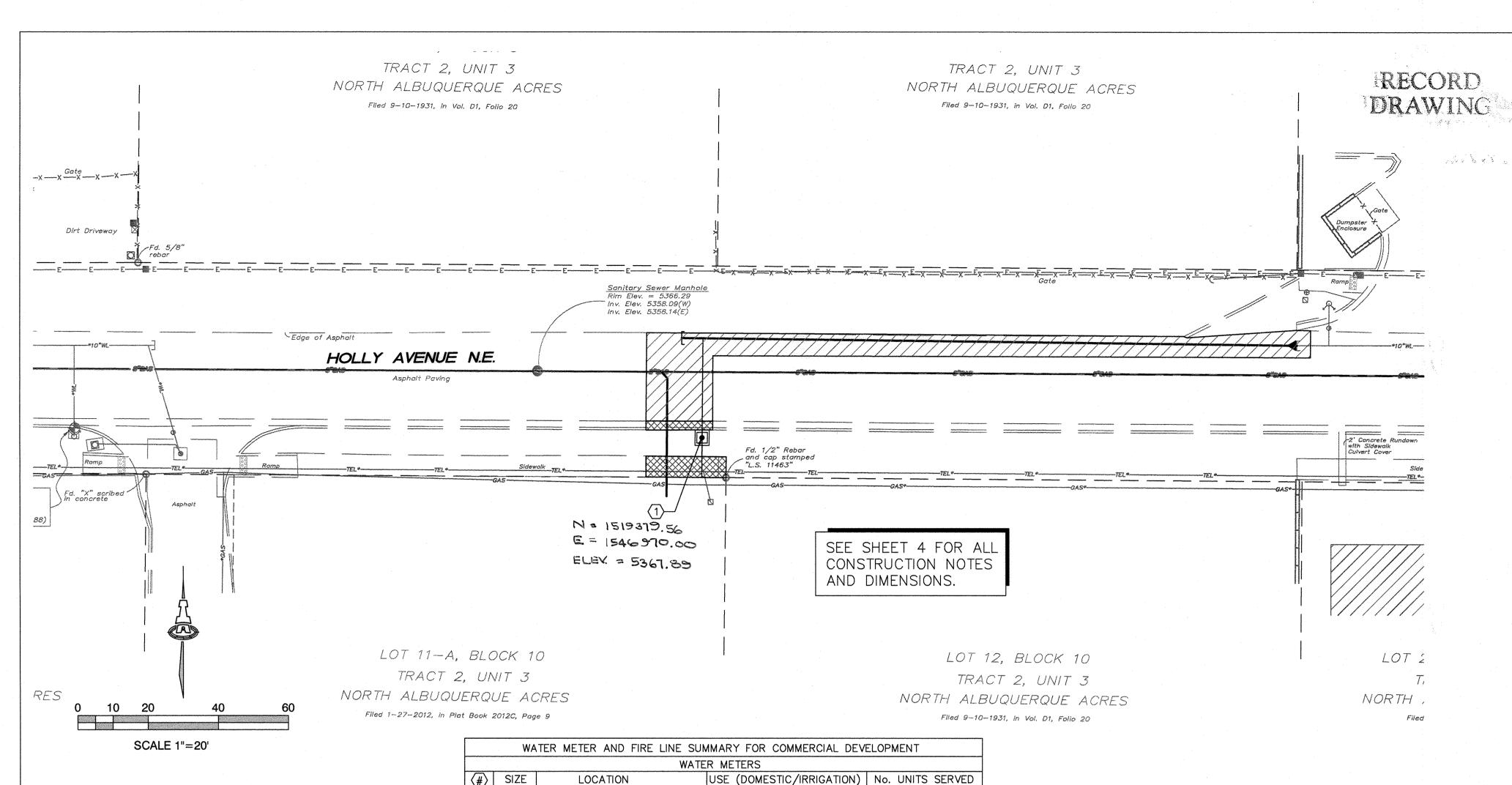


FOR INFORMATION ONLY

SHEET 2 OF 4

SURV TEK, INC.

Phone: 505-897-3366 Consulting Surveyors 9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377



DOMESTIC

845 -

DETAIL: C19-05

RESTRAINED JOINT LENGTHS FOR WATERLINE FUTTINGS

	FOR HO	RIZONTA	DINT LENGT AL BENDS, D ENDS, (F	VALVES,	
	HORZ. BENDS				VALVES &
SIZE 90°	45°	22 1/2	11 1/4*	DEAD ENDS	
12	37	15	8	4	102
10	31	13	7	4	87
8	27	11	6	3	72
6	20	9	4	2	55
4	15	6	3	2	39

RESTRAINED JOINT LENGTHS, L _T , FOR REDUCERS, (FT.) MINIMUM UNOBSTRUCTED, STRAIGHT—RUN LENGTH: RESTRAIN LARGE PIPE.						
SIZE	LARGE SIDE	SIZE	LARGE SIDE			
12x10	30	10x6	53			
12x8	54	10×4	71			
12x6	74	8x6	31			
12x4	89	8x4	52			
10x8	29	6x4	29			

THESE TABLES ARE BASED UPON THE FOLLOWING CRITERIA:

1.50

3.0 FT. MINIMUM

DEPTH OF BURY: FACTOR OF SAFETY: MATERIAL: SOIL TYPE:

TRENCH TYPE 4:

TEST PRESSURE:

GM/SM - SILTY GRAVELS AND SILTY SANDS, GRAVEL-SAND-SILT MIXTURES. PIPE BEDDED IN SAND, GRAVEL, OR

CRUSHED STONE TO DEPTH OF 1/8 PIPE DIAMETER, 4 INCH MINIMUM; BACKFILL COMPACTED TO TOP OF PIPE.

DIFFERENT CRITERIA. E.G., GREATER DEPTH OF BURY, ETC., WILL REQUIRE DIFFERENT RESTRAINED LENGTHS. THESE MUST BE CALCULATED BY A QUALIFIED PROFESSIONAL ENGINEER AND APPROVED BY ABCWUA.

NOTES:

- 1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
- 2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A MECHANICAL JOINT SHALL BE RESTRAINED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ON THIS SHEET.
- THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is

Russ P. Hugg



true and correct to the best of my knowledge and belief.

NMPS No. 9750 12/29



LEGEND

EXISTING PROPERTY CORNER EXISTING SEWER LINE ---- EXISTING WATERLINE EXISTING SAS MH EXISTING GV NEW WATERLINE NEW WATER FITTING NEW GATE VALVE

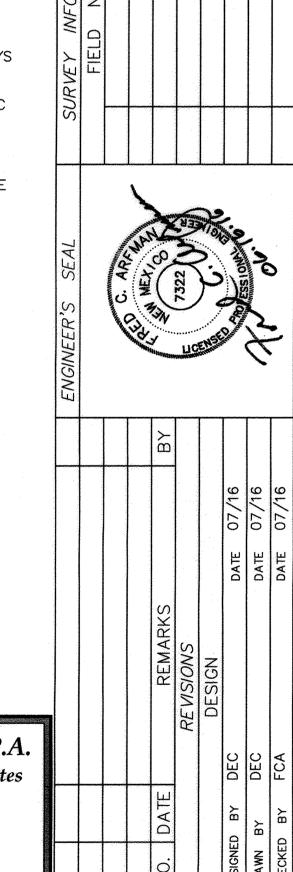
NEW 3/4" SINGLE WATER SERVICE

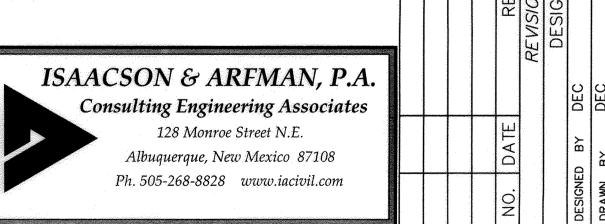
REMOVE AND REPLACE EXISTING PAVEMENT, CURB & GUTTER PER COA STD DWG 2465 MAJOR LOCAL

1. EXISTING UTILITY LINES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND MAY BE SHOWN. ALL UTILITIES SHOULD BE FIELD

GENERAL NOTES

- INCOMPLETE OR OBSOLETE. SUCH LINES MAY OR MAY NOT EXIST WHERE SHOWN OR NOT VERIFIED AND LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE. IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES.
- 2. CONTRACTOR SHALL NOT USE VIBRATORY COMPACTION EQUIPMENT OR HEAVY VEHICLES OVER EXISTING UTILITIES.
- 3. CENTERLINES OF CONSTRUCTION IS ALONG CENTERLINE OF ROAD UNLESS OTHERWISE
- 4. PROPOSED WATERLINE MATERIAL SHALL BE PVC PIPE MEETING AWWA C900 DR-18 REQUIREMENTS (6"-12").
- 5. ALL FITTINGS ON WATERLINES SHALL HAVE RESTRAINED JOINTS PER TABLES THIS SHEET.
- 6. SUPPLEMENTAL SPECIFICATION: ALL BACKFILL FOR WATER LINE TRENCHES SHALL BE COMPACTED TO A MINIMUM 95% MAXIMUM DENSITY PER ASTM D-1557.
- 7. ALL WATER VALVE BOXES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.
- 8. PAVEMENT CUTS FOR UTILITIES PER COA STD DWG 2465.
- 9. ALL WORK AFFECTING ARTERIAL ROADWAY REQUIRE 24 HOUR CONSTRUCTION.
- 10. REMOVAL OF CURB & GUTTER AND SIDEWALK SHALL BE TO THE NEAREST JOINT.
- 11. ANY DAMAGE TO THE EXISTING CURB & GUTTER, PAVEMENT, SIDEWALKS, STRIPING AND SIGNAGE DURING CONSTRUCTION SHALL BE REPLACED.
- 12. 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.
- 13. CURB AND GUTTER, SIDEWALKS AND DRIVE PADS SHALL MATCH THE ELEVATIONS OF ABUTTING EXISTING ARES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER





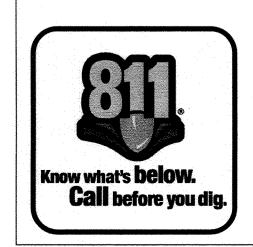
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP

HOLLY AVE WATERLINE EXTENSION MASTER WATERLINE PLAN

CITY ENGINEER APPROVAL Mo./DAY/YR. Mo./DAY/YR DESIGN REVIEW COMMITTEE YOY. 0 5 20 6. JUL 2 8 2016 DESIGN REVIEW COMMITTE CITY ENGINEER City Project No. Zone Map No.

C-19

664485



WATER SHUT-OFF PLAN SHUT-OFF VALVE 841 TO PROVIDE NON-PRESSURE CONNECTION. SEE ABOVE.

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 WELL COLLECTORS, TRANSMISSION LINES, OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF

 $\langle 1 \rangle | 3/4"$

9+96.00, 18.5' RT

PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT:

http://www.abcwua.org/Water_Shut_off_and_Turn_on_Procedures.aspx

