

CERTIFICATE FOR RESOLUTION

THE STATE OF TEXAS §
§
COUNTIES OF HARRIS §
AND FORT BEND §

I, the undersigned officer of the Board of Directors of North Fort Bend Water Authority, hereby certify as follows:

1. The Board of Directors of North Fort Bend Water Authority convened in regular session on the 27th day of April, 2011, inside the boundaries of the Authority, and the roll was called of the members of the Board:

Peter Houghton	President
Robert Patton	Vice President
Melony Gay	Secretary
David Spell	Assistant Secretary
Robert Darden	Assistant Vice President
Bruce Fay	Director
Pat Hebert	Director

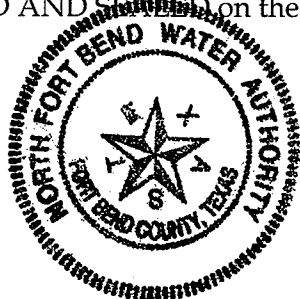
and all of said persons were present except Director Darden, thus constituting a quorum. Whereupon, among other business, the following was transacted at the meeting: a written

RESOLUTION ADOPTING CROSSING GUIDELINES FOR
AUTHORITY REALTY INTERESTS

was introduced for the consideration of the Board. It was then duly moved and seconded that the resolution be adopted; and, after due discussion, the motion, carrying with it the adoption of the resolution, prevailed and carried unanimously.

2. A true, full, and correct copy of the aforesaid resolution adopted at the meeting described in the above and foregoing paragraph is attached to and follows this certificate; the action approving the resolution has been duly recorded in the Board's minutes of the meeting; that the persons named in the above and foregoing paragraph are the duly chosen, qualified, and acting officers and members of the Board as indicated therein; each of the officers and members of the Board was duly and sufficiently notified officially and personally, in advance, of the time, place, and purpose of the aforesaid meeting, and that the resolution would be introduced and considered for adoption at the meeting, and each of the officers and members consented, in advance, to the holding of the meeting for such purpose; the meeting was open to the public as required by law; and public notice of the time, place, and subject of the meeting was given as required by Chapter 551, Texas Government Code, and Section 49.063, Texas Water Code.

SIGNED AND SEALED on the 27th day of April, 2011.



Melony Gay
Secretary, Board of Directors

(SEAL)

RESOLUTION ADOPTING CROSSING GUIDELINES FOR
AUTHORITY REALTY INTERESTS

WHEREAS, North Fort Bend Water Authority (the "Authority") has been legally created by Special Act (the "Act") of the legislature of the State of Texas for the purpose, among others, of causing the reduction of groundwater withdrawals and the conservation, preservation, protection, and recharge of groundwater reservoirs; and

WHEREAS, the Authority has acquired numerous realty interests, including easements (the "Realty Interests"), in connection with pursuing its authorized purposes; and

WHEREAS, the Authority desires to provide guidelines for the crossing of its Realty Interests to ensure that any such crossings are in accordance with generally accepted engineering practices in the Houston region and will not impair, obstruct, restrict, or interfere with the Authority's facilities or the operation and maintenance thereof; Now, Therefore,

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE AUTHORITY THAT:

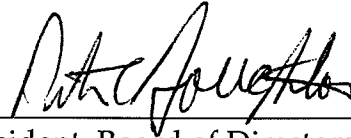
Section 1: The Board hereby adopts the Crossing Guidelines for its Realty Interests in the form attached as **Exhibit A**.

Section 2: The Authority reserves the right to modify the Crossing Guidelines and this Resolution at any time and to add, remove or modify terms of the Crossing Guidelines on a case-by-case basis.

Section 3: Requests for variance from the Crossing Guidelines may be submitted to the Authority's Board of Directors for consideration on a case-by-case basis and must (i) be accordance with generally accepted engineering practices in the Houston region, and (ii) not impair, obstruct, restrict, or interfere with the Authority's facilities or the operation and maintenance thereof.

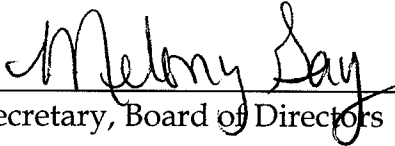
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PASSED AND APPROVED this 27th day of April, 2011.



President, Board of Directors

ATTEST:



Secretary, Board of Directors

(SEAL)

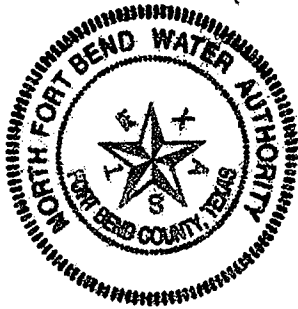


EXHIBIT A
CROSSING GUIDELINES

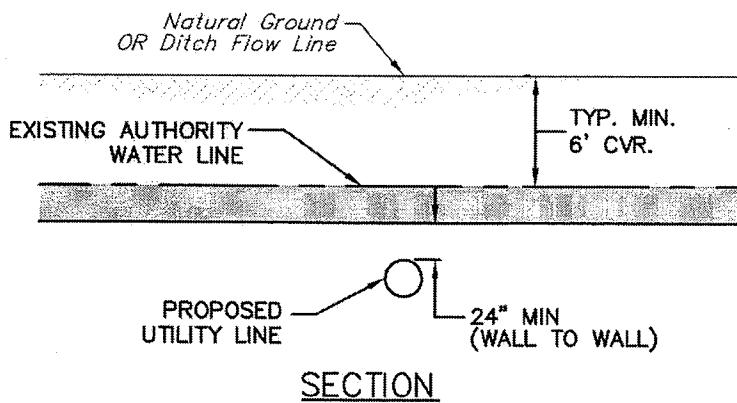
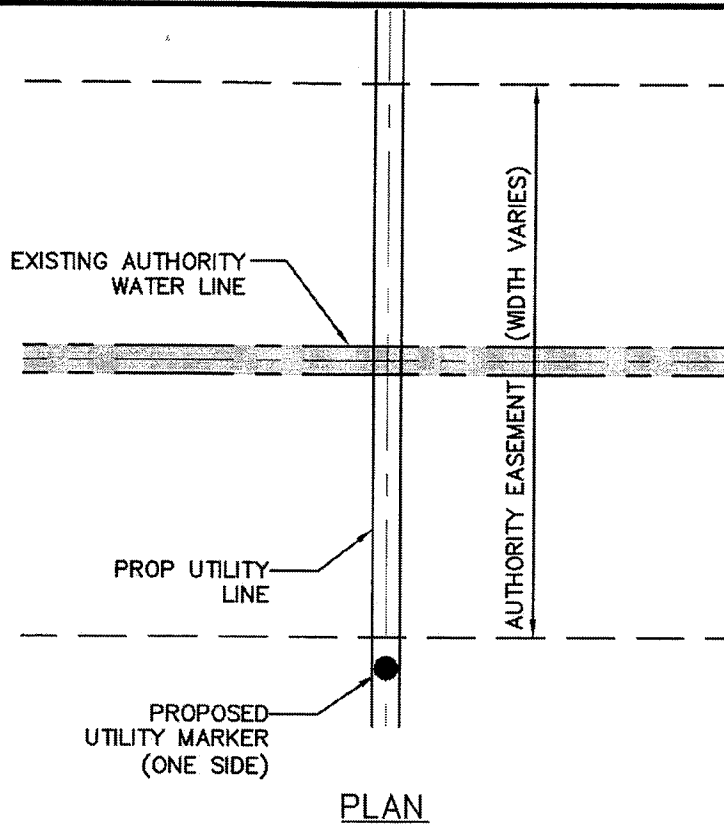
GENERAL NOTES:

1. UTILITY WILL CONTACT NORTH FORT BEND WATER AUTHORITY'S ("AUTHORITY") OPERATOR (SOUTHWEST WATER COMPANY 832-209-5022) TO LOCATE AND MARK AUTHORITY'S WATER LINE PRIOR TO ANY CONSTRUCTION. AUTHORITY ACCEPTS NO RESPONSIBILITY REGARDING THE LOCATION OF ANY OTHER FACILITIES WITHIN THE AUTHORITY'S EASEMENT.
2. UTILITY WILL COORDINATE WITH AUTHORITY REGARDING USE OF HEAVY EQUIPMENT ON OR ACROSS WATERLINE WITHIN THE EASEMENT TO PREVENT POTENTIAL DAMAGE TO AUTHORITY FACILITIES. THIS MAY INCLUDE USE OF MATS, PLATES, OR SPECIAL EQUIPMENT.
3. ANY OPEN CUT CONSTRUCTION FOR A UTILITY CROSSING ABOVE AN AUTHORITY WATERLINE WILL NOT DISTURB SOILS WITHIN 18 INCHES OF AUTHORITY'S LINE. UTILITY'S EXCAVATOR SHALL HAVE A PLATE WELDED OVER THE TEETH OF THE EXCAVATOR BUCKET, AND THE SIDE CUTTERS MUST BE REMOVED PRIOR TO EXCAVATION TO HELP PREVENT PIPELINE DAMAGE. ANY EXCAVATION TAKING PLACE WITHIN 24 INCHES OF THE OUTER EDGE OF THE WATERLINE SHALL BE DONE BY HAND EXCAVATION ONLY; AIR CUTTING AND VACUUM EXCAVATION ARE PERMITTED WITH THE APPROVAL OF THE AUTHORITY ONSITE REPRESENTATIVE.
4. CONSTRUCTION ACTIVITIES THAT GENERATE GROUND VIBRATIONS, INCLUDING PILE DRIVING, SHEET DRIVING, SOIL COMPACTION WORK, JACK HAMMERING, RAMMING, BORING AND JACKING SHALL BE COORDINATED WITH AND APPROVED BY THE AUTHORITY'S ENGINEER
5. LETTER OF NO OBJECTION MUST BE OBTAINED PRIOR TO ANY WORK ACTIVITY WITHIN AUTHORITY'S EASEMENT. AUTHORITY MUST REVIEW AND APPROVE PROPOSED EASEMENT AND CONSTRUCTION DRAWINGS BEFORE ISSUING A LETTER OF NO OBJECTION. A COPY OF THIS LETTER MUST BE IN THE POSSESSION OF UTILITY'S (AND ITS CONTRACTORS) WORK CREWS WHILE CONDUCTING CONSTRUCTION ACTIVITY WITHIN THE AUTHORITY'S EASEMENT. A LETTER OF NO OBJECTION IS NOT NECESSARY FOR SURVEY WORK ON OR ASSESSMENT OF THE SURFACE OF THE EASEMENT.
6. UTILITY MUST NOTIFY AUTHORITY 48 HRS IN ADVANCE OF UTILITY CONDUCTING ACTIVE CONSTRUCTION WITHIN THE AUTHORITY'S EASEMENT. AUTHORITY'S REPRESENTATIVE MAY BE PRESENT DURING ACTIVE CONSTRUCTION WITHIN AUTHORITY EASEMENT. UTILITY WILL REIMBURSE AUTHORITY FOR THE COST OF ITS REPRESENTATIVE TO BE PRESENT DURING ACTIVE CONSTRUCTION WITHIN AUTHORITY'S EASEMENT.
7. UTILITY MAY NOT STORE CONSTRUCTION MATERIALS, INCLUDING SOIL SPOILS, AND EQUIPMENT ON AUTHORITY EASEMENT.
8. ALL PROPOSED CROSSINGS SHALL BE REASONABLY PERPENDICULAR TO AUTHORITY'S EASEMENT.
9. PROPOSED SURFACE GRADE OR ELEVATION WITHIN AUTHORITY EASEMENT MUST BE APPROVED BY THE AUTHORITY. NO CONSTRUCTION WILL BE ALLOWED THAT RESULTS IN THE EROSION OF SOILS OR EARTH FILL GREATER THAN 6-INCHES WITHIN THE AUTHORITY'S EASEMENT. RESTORE AUTHORITY'S EASEMENT TO EXISTING CONDITION OR BETTER TO ENSURE POSITIVE DRAINAGE WITHOUT ADVERSELY AFFECTING ADJACENT PROPERTIES.
10. NO TEMPORARY OR PERMANENT CROSSING (RAILROADS, ROADWAYS, DRIVEWAYS, SIDEWALKS, PARKING LOTS, ETC.) SHALL BE CONSTRUCTED ACROSS AUTHORITY'S EASEMENT WITHOUT WRITTEN APPROVAL. ALL CROSSINGS SHALL BE DESIGNED TO BE REASONABLY PERPENDICULAR TO THE WATERLINE AND MAINTAIN A MINIMUM OF 6' COMPACTED COVER OVER THE WATERLINE.
11. REQUESTS FOR VARIANCE FROM THESE CROSSING GUIDELINES MAY BE SUBMITTED TO THE AUTHORITY'S BOARD OF DIRECTORS FOR CONSIDERATION ON A CASE-BY-CASE BASIS AND MUST (I) PROVIDE AN EXPLANATION OF THE NEED FOR THE VARIANCE, (II) BE IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN THE HOUSTON REGION, (III) NOT CREATE AN UNREASONABLE RISK OF HARM TO THE GENERAL PUBLIC OR THE AUTHORITY'S FACILITIES, AND (IV) NOT UNREASONABLY RESTRICT OR INTERFERE WITH THE AUTHORITY'S EASEMENT OR FACILITIES, OR THE OPERATION AND MAINTENANCE OF THE AUTHORITY'S FACILITIES.



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BROWN & GAY ENGINEERS, INC.		Brown & Gay Engineers, Inc. 10777 Westheimer, Suite 400, Houston, TX 77042 Tel: 281-558-8700 Fax: 281-558-9701 --- Civil engineers and surveyors --- TBPE REGISTRATION NO. F-1046	
NORTH FORT BEND WATER AUTHORITY			
GENERAL NOTES FOR CROSSING GUIDELINES			
SCALE: NTS	JOB #: NFB09-60	DATE: APR. 2011	Copyright 2007



NOTES:

WATERLINE:

1. A MINIMUM OF 24-INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE OUTSIDE OF ANY PROPOSED UTILITY CARRIER PIPE OR CASING AND THE EXISTING AUTHORITY WATERLINE. USE TRENCHLESS CONSTRUCTION WHEN CROSSING UNDER EXISTING AUTHORITY WATERLINE. PIPE MATERIALS MUST CONFORM TO AWWA STANDARDS.
2. NO BENDS, VALVES OR APPURTENANCES SHALL BE CONSTRUCTED WITHIN THE EASEMENT. PLACE CUSTOMARY PIPELINE MARKERS OUTSIDE OF AUTHORITY'S EASEMENT.

SANITARY SEWER OR RECLAIMED WATER PIPELINE:

1. VERTICAL AND HORIZONTAL CLEARANCES BETWEEN PROPOSED SANITARY AND EXISTING AUTHORITY WATERLINE SHALL BE IN ACCORDANCE WITH TCEQ REGULATIONS (TEXAS ADMINISTRATIVE CODE 217.53(d)). USE TRENCHLESS CONSTRUCTION WHEN CROSSING UNDER EXISTING AUTHORITY WATER LINE.
2. SANITARY SEWER CONSTRUCTED ABOVE THE EXISTING AUTHORITY WATERLINE SHALL BE PRESSURE RATED PVC CASING THROUGHOUT THE ENTIRE WIDTH OF AUTHORITY EASEMENT.

STORM SEWER:

1. A MINIMUM OF 24-INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE OUTSIDE OF ANY PROPOSED STORM SEWER AND THE EXISTING AUTHORITY WATERLINE. USE TRENCHLESS CONSTRUCTION WHEN CROSSING UNDER EXISTING AUTHORITY WATER LINE.
2. PIPE MUST UTILIZE GASKETED JOINTS WITHIN AUTHORITY'S EASEMENT.

GENERAL

1. UTILITY SHALL PROVIDE RESTRAINED JOINTS FOR ALL PRESSURE PIPE THROUGHOUT EASEMENT.
2. ALL PROPOSED CROSSINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS GOVERNING SUCH INSTALLATIONS.
3. PROPOSED METALLIC PIPELINES SHALL INCLUDE CATHODIC PROTECTION AND BONDED DIELECTRIC COATINGS WHERE APPLICABLE. CATHODIC PROTECTION SHALL NOT BE DETRIMENTAL TO ANY EXISTING AUTHORITY FACILITIES. UTILITY OWNER WILL PROVIDE EVIDENCE OF THIS FROM PROFESSIONAL ENGINEER KNOWLEDGEABLE IN CATHODIC PROTECTION IN TEXAS.

4. WITHIN 30 DAYS FOLLOWING COMPLETION OF CONSTRUCTION, PROVIDE SEALED RECORD DRAWINGS DEPICTING HORIZONTAL AND VERTICAL LOCATION AS CONSTRUCTED ACCORDING TO INFORMATION PROVIDED BY UTILITY FIELD PERSONNEL.
5. BURIED ELECTRIC CABLES SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC WITH A MINIMUM OF 24-INCHES OF VERTICAL CLEARANCE AND SHALL BE INSTALLED IN NON-METALLIC OR HIGH IMPACT PVC CONDUIT.
6. COMMUNICATION CABLES (TELEPHONE, CABLE TV, AND OTHER DATA LINES) SHALL MAINTAIN A MINIMUM OF 12-INCHES VERTICAL SEPARATION, AND SHALL BE NON-METALLIC OR HIGH IMPACT PVC CONDUIT WHEN CROSSING THE EXISTING AUTHORITY WATER LINE.
7. UTILITY CROSSINGS WILL BE MARKED OUTSIDE OF AUTHORITY EASEMENTS AS INDICATED IN PLAN.
8. SEE GENERAL NOTES, EXHIBIT A, FOR ADDITIONAL GUIDELINES.



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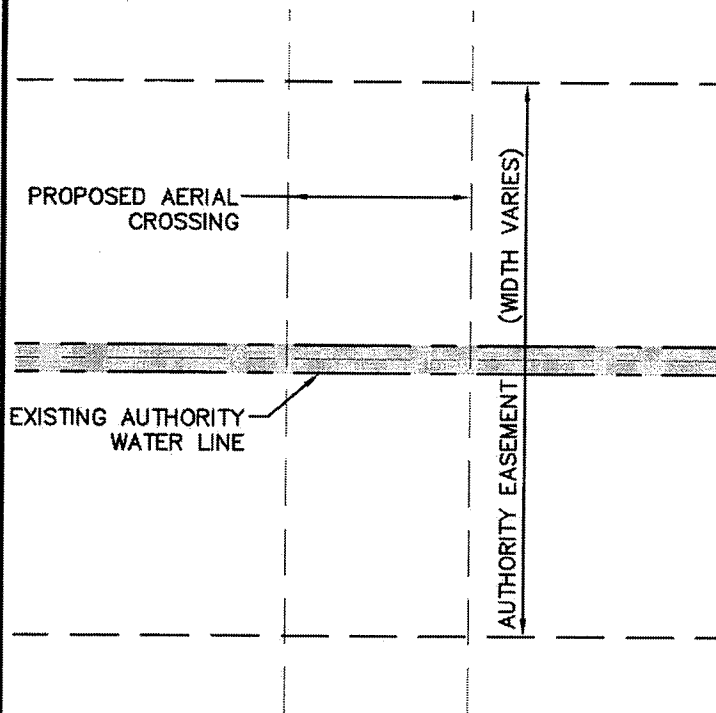
**NORTH FORT BEND
WATER AUTHORITY**

**BURIED UTILITY
CROSSING GUIDELINES**

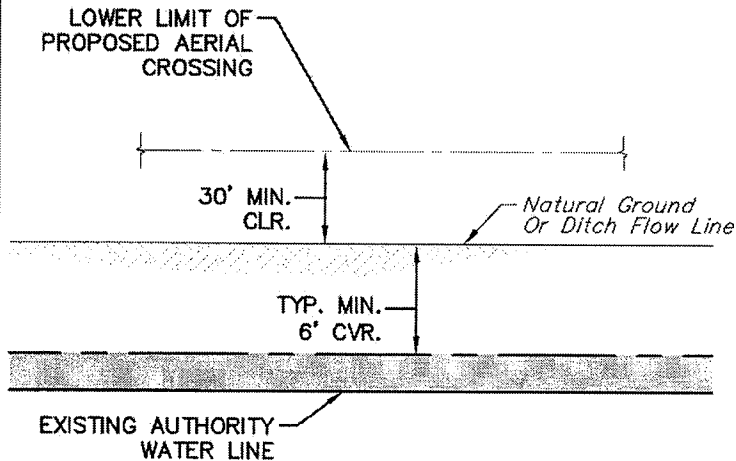
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NOTES:

1. UTILITY POLES AND GUY-ANCHORS WILL NOT BE PERMITTED WITHIN THE AUTHORITY EASEMENT.
2. A MINIMUM OF 30- FEET OF VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE NATURAL GROUND ELEVATION ABOVE THE EXISTING AUTHORITY WATERLINE. ALL AERIAL UTILITIES REQUIRE AERIAL EASEMENTS.
3. SEE GENERAL NOTES EXHIBIT A FOR ADDITIONAL GUIDELINES.



PLAN



SECTION



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