ITEM 638 - FIRE HYDRANT EXTENDED AND UTILITY COORDINATION NOTES BUCKEYE PIPELINE (CONTINUED) 2.7. THE CROSSING PARTY SHALL ENSURE ALL EXCAVATION WORK

ADJUSTED TO GRADE, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 638 - WATER MAINS AND SERVICE BRANCHES, EXCEPT AS HEREIN MODIFIED:

ALL MATERIALS, PROCEDURES, AND TESTING USED SHALL CONFORM TO VILLAGE OF BLUFFTON ENGINEERING STANDARDS AND SPECIFICATIONS AND THE ODOT CMS MANUAL ITEM 638. IN ADDITION, EXTENSION AND ADJUSTMENT SHALL FOLLOW ODOT CMS 638.15.A.

CONTRACTOR SHALL REMOVE EXISTING CONFLICTING HYDRANTS, EXTEND THE LATERAL TEE WITH APPROPRIATE BENDS OR EXTENSIONS, AND PLACE A NEW FIRE HYDRANT AT THE LOCATIONS SHOWN IN THE PLANS. THE FOLLOWING ARE VILLAGE OF BLUFFTON WATER

WATER MAIN: AWWA C-900 DR-18, SLIP-ON JOINTS WITH RUBBER GASKETS. THE LAYING OF WATER MAIN ON DIRT WITH BELSS CUT OUT

FITTINGS: AWWA C-153 DUCTILE IRON, COMPACT. ALL RESTRAINTS SHOULD BE ROMAGRIP MANUFACTURED BY ROMAC INDUSTRIES OR STARGRIP MANUFACTURED BY STAR INDUSTRIES.

FIRE HYDRANTS: CLOW MEDALLION, AWWA-ULFM, 3-WAY, SS STEM, 5.25", NST, O/L, 6" MJ SHOE, PAINTED RED WITH WHITE CAPS, SSBN. SPECIFICATION CLOF2545-5BLUFFTON.

RESTRAINED JOINTS: INTERNAL RESTRAINED JOINTS SHALL BE USED. PIPE SHALL BE JM EAGLE EAGLE LOK 900, DIAMOND PLASTIC DIAMOND LOK OR APPROVED FOLIAL

PAYMENT FOR ITEM 638 - FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE AND MENTIONED IN ODOT CMS 638, SHALL BE AT THE CONTRACT EACH BID PRICE, COMPLETE IN PLACE, AND SHALL INCLUDE ALL LABOR, MATERIALS, PARTS, EXCAVATION, FILL MATERIALS, AND

ITEM SPECIAL - MAILBOX REMOVED AND

THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX, SUPPORT, AND HARDWARE. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION. THE CONTRACTOR WILL BE REQUIRED TO RESET THE EXISTING BOX AND SUPPORT USING THE EXISTING HARDWARE TO A CONDITION EQUAL TO THE CONDITION OF THE BOX AND SUPPORT PRIOR TO THE START OF CONSTRUCTION.

ANY BOX. SUPPORT, OR HARDWARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH EQUAL OR BETTER MATERIALS. AS DETERMINED BY THE OWNER, AT THE CONTRACTOR'S EXPENSE.

ALL BOXES WILL BE REPLACED IN THE SAME LOCATION, OR A LOCATION APPROVED BY THE VILLAGE, THE ENGINEER, AND THE POST MATER, AND MUST BE RESET THE SAME DAY SO DELIVERY IS NOT INTERRUPTED

MAILBOX, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL - MAILBOX REMOVED AND

COORDINATION OF CONTRACTORS

DURING CONSTRUCTION OF THIS PROJECT, S.R. 103 ALONG THE PROJECT ROUTE IS SCHEDULED FOR RESURFACING THROUGH THE OHIO DEPARTMENT OF TRANSPORTATION. THE FINAL SURFACE ASPHALT COURSE, TACK COAT AND PAVEMENT STRIPING ON MAINLINE SR103 ARE TO BE PERFORMED UNDER A SEPARATE CONTRACT NAMED "ALL/HAN-SR103-0.29/0.00" (PID: 110706). THE CONTRACTOR SHALL COOPERATE WITH THE CONTRACTOR FOR THIS RESURFACING PROJECT IN A MANNER TO NOT HINDER THE PROGRESS OR COMPLETION OF THE WORK BEING PERFORMED BY EACH OTHER. THE TIMING OF THE TWO PROJECTS SHALL BE COORDINATED TO ALLOW FOR COMPLETION OF THE MAINLINE RESURFACING AND STRIPING (PID: 110706) TO BE COMPLETED THIS CALENDAR YEAR AFTER THE INTERIM COMPLETION DATE, OR AFTER COMPLETION OF ALL WORK OUTLINED IN THE INTERIM COMPLETION DATE, WHICHEVER OCCURS SOONER. ALL WORK ASSOCIATED WITH THE SHARED USE PATH WITH THE EXCEPTION OF THE HIGHWAY LIGHTING SHALL BE COMPLETED BY OCTOBER 1ST, 2023. PLEASE CONTACT BEAU SMITH 419-422-2451 FOR ADDITIONAL INFORMATION REGARDING THIS PROJECT. THE ANTICIPATED AWARD

INTERIM COMPLETION DATE

DATE FOR THE PAVING PROJECT IS 10/24/2022.

ALL WORK NOTED IN THESE PLANS WITH THE EXCEPTION OF THE HIGHWAY LIGHTING SHALL BE COMPLETED BY OCTOBER 1, 2023. THIS DATE SHALL BE CONSIDERED AN INTERIM COMPLETION DATE. IF THE NOTED ITEMS OF WORK ARE NOT COMPLETED BY THIS INTERIM COMPLETION DATE, THE CONTRACTOR SHALL BE SUBJECT TO DAILY DISINCENTIVES OF \$800/DAY FOR FAILURE TO COMPLETE THE WORK AS OUTLINED ABOVE. THE CONTRACTOR IS STILL SUBJECT TO LIQUIDATED DAMAGES AS OUTLINED IN CMS 108.07 FOR THE REMAINDER OF THE CONTRACT.

BUCKEYE PIPELINE REQUIREMENTS

THE CONTRACTOR SHALL REFER TO BUCKEYE PARTNERS, L.P. AND AFFILIATES RIGHT OF WAY USE RESTRICTIONS SPECIFICATION REVISION 6. THE CONTRACTOR SHALL COORDINATE WITH BUCKEYE PIPELINE PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES, ESPECIALLY WITHIN THE LIMITS OF THE UNDERGROUND PIPELINES. THE FOLLOWING ARE PERTINENT SECTIONS OF THE RESTRICTIONS SPECIFICATIONS RELEVANT TO THE PROJECT AT HAND:

1.0 GENERAL GUIDELINES

- 1.1. THE SAFETY OF THE PIPELINE MUST BE CONSIDERED AT ALL TIMES. NO ATTEMPT TO PROBE FOR OR ENGAGE IN ANY CONSTRUCTION ACTIVITIES WHICH MIGHT DAMAGE THE PIPELINE IS
- 1.2. BEFORE ANY PRELIMINARY FIELD WORK OR CONSTRUCTION BEGINS IN THE VICINITY OF BUCKEYE'S PIPELINE, A DETERMINATION OF THE EXACT LOCATION AND ELEVATION OF THE PIPELINE MUST BE MADE. TO COORDINATE THIS PROCEDURE, PLEASE CONTACT OUR LOCAL FIELD OPERATIONS MANAGER AT THE BUCKEYE FACILITY NEAREST TO THE

BRANDON ALLEN 4800 EAST 49TH STREET CLEVELAND, OHIO 44125 PH: 216-318-2124 EMAIL: BALLEN@BUCKEYE.COM

BUCKEYE MAKES NO ASSURANCE THAT ITS PERMANENT PIPELINE MARKERS ARE POSITIONED DIRECTLY OVER ITS PIPELINE. LINE MARKERS SHOULD BE PLACED AT INTERVALS DETERMINED BY "LINE OF SIGHT". THE RELOCATION, REMOVAL, OR DESTRUCTION OF BUCKEYE'S PIPELINE MARKERS ARE PROHIBITED BY FEDERAL LAW. PIPELINE MARKERS DAMAGED OR MADE UNUSABLE SHALL BE REPAIRED OR REPLACED AT THE ENROACHING PARTY'S EXPENSE.

- 1.5. WHEN ANY CONSTRUCTION ACTIVITY IS CONDUCTED IN OR AROUND OUR PIPELINE RIGHT-OF-WAY, BUCKEYE'S ON-SITE INSPECTOR MUST BE PRESENT AT ALL TIMES. NO WORK SHALL TAKE PLACE WITHOUT A BUCKEYE ON-SITE INSPECTOR PRESENT. FOR THIS FREE-OF-CHARGE SERVICE, CONTACT OUR LOCAL FIELD OPERATIONS MANAGER AT THE BUCKEYE FACILITY NEAREST TO THE PROPOSED PROJECT.
- 1.7. THE CROSSING PARTY (CONTRACTOR) SHALL NOT BURN TRASH, BRUSH, OR OTHER ITEMS OR SUBSTANCES WITHIN 50 FEET OF THE PIPFI INF.
- 1.8. THE CROSSING PARTY (CONTRACTOR) SHALL NOT STORE ANY EQUIPMENT OR MATERIALS WITHIN THE PIPELINE RIGHT OF WAY. FULL ACCESS MUST BE MAINTAINED TO THE PIPELINE(S) AT ALL TIMES. THE STOCKPILING OF ITEMS INCLUDING SOIL, OR TOPSOIL OVER THE PIPELINE(S) IS NOT PERMITTED.
- 2.0 EXCAVATION AND CONSTRUCTION RESTRICTIONS
- 2.1. EXCAVATION OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH APPROPRIATE STATE "ONE—CALL" UTILITY LOCATING SYSTEM REQUIREMENTS. AS A MATTER OF STATE LAW, ANYONE UNDERTAKING EXCAVATION WORK IS REQUIRED TO CALL TWO WORKING DAYS IN ADVANCE IN OHIO.
- 2.2. THE CROSSING PARTY (CONTRACTOR) WILL CONDUCT "WHITE-LINING" OF ANY PROPOSED EXCAVATION AREAS. BUCKEYE WILL ERECT TEMPORARY PIPELINE MARKERS/FLAGS (YELLOW) IDENTIFYING THE LOCATION OF THE PIPELINE WITHIN THE WORK AREA. AND WILL PROVIDE INFORMATION ON HOW TO RESPOND SHOULD THE PIPELINE BE DAMAGED OR A COMMODITY RELEASE OCCUR. ALL PERSONNEL OPERATING EQUIPMENT OVER OR AROUND THE PIPELINE MUST BE MADE AWARE OF ITS LOCATION AND WHAT TO DO IF THEY MAKE CONTACT WITH THE PIPELINE.
- 2.3. WHEN A CROSSING PARTY (CONTRACTOR) EXCAVATES NEAR BUCKEYE'S PIPELINE, A BUCKEYE REPRESENTATIVE MUST LOCATE THE PIPELINE AND DETERMINE THE DEPTH OF COVER BEFORE THE CROSSING PARTY (CONTRACTOR) BEGINS EXCAVATION. THE BUCKEYE REPRESENTATIVE AND THE EXCÁVATOR MUST REVIEW AND COMPLETE AN EXCAVATION SAFETY CHECKLIST. THE CROSSING PARTY (CONTRACTOR) SHALL NOT PERFORM ANY EXCAVATION, CROSSING, BACKFILLING, OR CONSTRUCTION OPERATIONS UNTIL BUCKEYE'S ON-SITE INSPECTOR HAS REVIEWED THE PROPOSED WORK ON SITE AND GIVEN APPROVAL FOR WORK TO PROCEED. BUCKEYE'S ON-SITE INSPECTOR SHALL HAVE FULL AUTHORITY TO STOP THE WORK IF IT IS DETERMINED THAT THE WORK IS BEING PERFORMED IN AN UNSAFE MANNER.
- 2.6. NO EXCAVATIONS SHALL BE MADE ON LAND ADJACENT TO THE PIPELINE THAT WILL IN ANY WAY IMPAIR, WITHDRAW LATERAL SUPPORT, CAUSE SUBSIDENCE, CREATE THE ACCUMULATION OF WATER, OR CAUSE DAMAGE TO THE PIPELINE OR RIGHT OF WAY.

COMPLIES WITH OSHA'S EXCAVATION STANDARDS OUTLINED IN 29 CFR 1926 AND CORRECT ANY NONCOMPLIANT EXCAVATION SITE BEFORE BUCKEYE'S ON-SITE INSPECTOR OR THE CROSSING PARTY ENTERS THE

SITE TO PERFORM WORK.

3.0 SPECIFIC GUIDELINES

- 3.1.1.A. USE OF VIBRATORY EQUIPMENT LARGER THAN WALK-BEHIND UNITS ARE NOT PERMITTED WITHIN 25 FEET OF THE PIPELINE(S).
- 3.3.1.C. USE OF VIBRATORY EQUIPMENT LARGER THAN WALK-BEHIND UNITS IS NOT PERMITTED WITHIN WITHIN 25 FEET OF THE PIPELINE(S).
- 3.3.1.E. FOR ROADS AND DRIVEWAYS, A MINIMUM COVER OF 48 INCHES WITH A NET COVER OF 36 INCHES OF UNDISTURBED SOIL IS REQUIRED AROVE THE PIPELINE.
- 3.3.1.F. A MINIMUM COVER OF 36 INCHES OVER THE PIPELINE IS REQUIRED AT ROAD DRAINAGE DITCHES. UPON BUCKEYE'S APPROVAL, THIS COVER CAN BE REDUCED TO 24 INCHES IF DITCH IS ROCK/RIP-RAP LINED AND 12 INCHES IF DITCH IS CONCRETE LINED.
- 3.3.1.G. FOR ASPHALT PARKING LOTS AND SIDEWALKS, A MINIMUM COVER OF 36 INCHES WITH A NET COVER OF 24 INCHES OF UNDISTURBED SOIL IS REQUIRED ABOVE THE PIPELINE. ADDITIONAL COVER MAY BE REQUIRED BY BUCKEYE BASED UPON SPECIFIC SITE CONDITIONS
- 3.3.1.H. STOCKPILING OF MATERIALS ON THE RIGHT OF WAY IS NOT PERMITTED. THESE MATERIALS INCLUDE, BUT ARE NOT LIMITED TO SOIL, SNOW, STONE, BOULDERS, TREES, BRUSH, GRASS CLIPPINGS, LEAVES, ETC.
- 3.4.5.A.1. ELECTRICAL CONDUCTORS/CABLE INSTALLATIONS SHALL MEET MINIMUM REQUIREMENTS OF NATIONAL ELECTRIC CODE FOR BURIED CONDUCTORS AND BE ADEQUATELY SHIELDED AND BE IMPERVIOUS TO HYDROCARBON LIQUIDS
- 3.4.5.A.2. CABLES ARE REQUIRED TO CROSS BENEATH THE PIPELINE WITH A MINIMUM CLEARANCE OF 24 INCHES.
- 3.4.5.A.3. SAND OR SELECT FILL SHALL BE PLACED BETWEEN THE PIPELINE AND CABLE.
- 3.4.5.A.4. ALL CABLES SHALL BE INSTALLED IN SCHEDULE 80 PVC PIPE AND ENCASED IN A 6-INCH ENVELOPE OF COLOR CODED (I.E. RED FOR ELECTRICAL CABLE) 3000 PSI CONCRETE FOR A MINIMUM DISTANCE OF 10 FEET TO EACH SIDE OF EACH BUCKEYE PIPELINE(S) ACROSS THE RIGHT OF WAY.
- 3.4.5.A.5. WARNING TAPE, IN ACCORDANCE WITH A.P.W.A. UNIFORM COLOR CODE, SHALL BE PLACED ABOVE THE UTILITY, 12 INCHES BELOW GROUND, FOR A DISTANCE OF 25 FEET ON EITHER SIDE OF CROSSING.
- 3.8 CONSTRUCTION-INDUCED VIBRATIONS
- 3.8.1.A. CONSTRUCTION ACTIVITIES THAT GENERATE GROUND VIBRATIONS, INCLUDING, BUT WITHOUT LIMITATION, PILE DRIVING, SHEET DRIVING, SOIL COMPACTION WORK, JACKHAMMERING, OR RAMMING, SHALL BE REVIEWED BY BUCKEYE ON A CASE-BY-CASE BASIS.
- 3.8.1.B. IF THE CROSSING PARTY ANTICIPATES SUCH AN ACTIVITY WITHIN 10 FEET OF THE PIPELINE, THEN CONTINUOUS TESTING MONITORED BY A SEISMOGRAPH LOCATED DIRECTLY OVER THE PIPELINE AT ITS CLOSES POINT TO THE ACTIVITY MUST BE CONDUCTED. THE CROSSING PARTY (CONTRACTOR) SHALL PROVIDE, AT THEIR EXPENSE, THE MONITORING SERVICE WHICH MUST BE APPROVED BY BUCKEYE.

ENERGY TRANSFER

THE CONTRACTOR SHALL REFER TO ENERGY TRANSFER'S GENERAL GUIDELINES FOR THIRD-PARTY CONSTRUCTION OR MAINTENANCE ACTIVITIES. THE FOLLOWING ARE PERTINENT SECTIONS OF THE GUIDELINES RELEVANT TO THE PROJECT AT HAND:

1.B.1. IN ACCORDANCE WITH THE STATE APPROVED NOTIFICATION CENTERS, ENERGY TRANSFER "ET" SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY CONSTRUCTION OR MAINTENANCE ACTIVITY. THE CONTRACTOR MUST CONTACT THE STATE APPROVED NOTIFICATION CENTER AT 811 BEFORE COMMENCING ANY CROSSING AT OR NEAR ET'S PIPELINE FACILITY. THE CONTRACTOR MUST ALSO CONTACT THE FOLLOWING FIELD REPRESENTATIVES:

SUNOCO/INLAND PIPELINES: JOHN FRANKART: 419-601-8944

MID-VALLEY PIPELINE: JOHN MAZUR: 260-437-2493 DENNY BOWEN: 419-308-2140

1.B.2. UNLESS OTHERWISE AGREED TO BY ET IN WRITING, AN ET INSPECTOR IS ON SITE TO MONITOR THE EXCAVATION ACTIVITIES.

ENERGY TRANSFER (CONTINUED)
5. CROSSING PIPELINES WITH EQUIPMENT: TO PROTECT ET'S PIPELINES OR RELATED FACILITIES FROM ADDITIONAL EXTERNAL LOADING, ET MAY PERFORM A FIELD SURVEY AND AN ENGINEERING STUDY TO DETERMINE THE EFFECTS OF ANY PROPOSED ACTIVITY OVER ITS PIPELINES OR RELATED FACILITIES. MATS, TIMBER, BRIDGES, OR OTHER PROTECTIVE MATERIALS DEEMED NECESSARY AND APPROPRIATE BY ET MAY BE REQUIRED AND PLACED OVER ET'S PIPELINES OR RELATED FACILITIES FOR THE DURATION OF ANY LOADING.

6.A. UNLESS OTHERWISE AGREED TO BY ET IN WRITING, AN ET REPRESENTATIVE WILL BE ON LOCATION PRIOR TO AN DURING CONSTRUCTION ACTIVITY WITHIN ET'S PIPELINE FACILITY.

6.B. NO HEAVY EQUIPMENT OF ANY TYPE WILL BE PERMITTED TO WORK DIRECTLY OVER ET'S PIPELINES OR RELATED FACILITIES, UNLESS OTHERWISE AGREED TO IN WRITING BY ET

6.C. ALL EXCAVATION WITHIN EIGHTEEN (18") OF ANY PIPELINE WILL BE PERFORMED BY HAND. AT THE DISCRETION OF ET'S ONSITE REPRESENTATIVE, EXCAVATORS MAY BE REQUIRED TO HAND DIG BEGINNING AT A DISTANCE GREATER THAN EIGHTEEN INCHES (18").

6.D. ALL EXCAVATIONS WITHIN ET'S PIPELINE FACILITY SHALL BE BACKFILLED WITH A MINIMUM OF EIGHT INCHES (8") LIFTS OF BACKFILL MATERIAL, WHERE PIPELINE PADDING IS REDUCED. ENSURE BACKFILL IS CLEAN AND FREE FROM ROCK, TRASH, CONCRETE, RUBBISH, OR HAZARDOUS MATERIAL. SOIL BACKFILL MUST BE COMPACTED TO THE SATISFACTION OF THE ET ONSITE INSPECTOR SO THAT SETTLING DOES NOT OCCUR.

6.F. NO FILL SHALL BE PERMITTED WITHIN ET'S PIPELINE FACILITY UNLESS OTHERWISE AGREED TO IN WRITING BY ET. NO MORE THAN TWENTY-FOUR INCHES (24") OF EARTHEN FILL MATERIAL (PIPELINE COVER NOT TO EXCEED 7FT), FREE FROM ANY ROCKS, TRASH, CONCRETE. RUBBISH, REBAR, HAZARDOUS MATERIALS, ETC. WILL BE PERMITTED WITHIN ET'S PIPELINE FACILITY, UNLESS OTHERWISE AGREED TO IN WRITING BY FT

6.H. NO TRASH OR DEBRIS SHALL BE PLACED IN ANY EXCAVATION OR LEFT IN OR ON ET'S PIPELINE FACILITY.

8.A.1. FOR THE SAFETY OF THE PUBLIC AND TO LESSEN THE RISK OF A BREAK, LEAK, RUPTURE OR OTHER DAMAGE TO ET'S PIPELINE FACILITY AND IN FURTHERANCE OF THE STATE CODE, ET'S PIPELINE FACILITY SHALL BE POSITIVELY LOCATED BY ET BEFORE ANY CROSSINGS ARE CONSTRUCTED OR INSTALLED NEAR ET'S PIPELINE

8.C.2. WHEN OPEN TRENCH CROSSING WITH UNDERGROUND ELECTRIC CABLES EXCEPT 24-VOLT DC POWER LINES (INCLUDING SINGLE RESIDENTIAL SERVICES DROPS) CROSSING ET'S FACILITIES SHALL BE INSTALLED IN NONMETALLIC CONDUIT WITH BAGS OF CONCRETE-MIX PLACED DIRECTLY ABOVE AND BELOW THE CONDUIT ACROSS COMPANY RIGHT OF WAY OR SIMILAR COMPANY APPROVED METHOD. A MINIMUM OF THIRTY SIX INCHES IS REQUIRED IF OVER 600 VOLTS.

8.C.6. ET RECOMMENDS THAT ALL UNDERGROUND RESIDENTIAL TELEPHONE, CABLE TV, AND 24 VOLT DC POWER LINES BE ENCASED IN PLASTIC CONDUIT FOR THE FULL WIDTH OF THE RIGHT OF WAY.

14. PIPELINE MARKERS: THE PARTY REQUEST SUCH CONSTRUCTION WORK WILL UNSURE THAT ALL TEMPORARY AND PERMANENT PIPELINE MARKERS INSTALLED BY ET ARE PROTECTED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION OR CROSSING RELATED ACTIVITY. ANY PERMANENT MARKERS DAMAGED OR REMOVED WILL BE REPLACED BY ET AT THE SOLE EXPENSE OF THE PARTY REQUESTING SUCH CROSSING. NO WORK WILL BE ALLOWED TO COMMENCE UNTIL, IN THE OPINION OF ET. SUFFICIENT PIPELINE MAKERS ARE IN PLACE. UNAUTHORIZED DAMAGE OR REMOVAL OF PIPELINE MARKERS IS PUNISHABLE BY FEDERAL LAW.