## **DRAINAGE AND UTILITIES GENERAL NOTES:**

- I. EXISTING MANHOLE / CATCH BASIN RIMS SHALL BE ADJUSTED AS NOTED.
- 2. ALL SEWER AND WATERMAIN CROSSINGS SHALL MEET WITH THE APPLICABLE LOCAL AND STATE GUIDELINES AS DESCRIBED IN THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
- THE CONTRACTOR SHALL COORDINATE THE PROPOSED STORM SEWER CONSTRUCTION WITH ALL OTHER UTILITY ADJUSTMENTS AND INSTALLATIONS AS APPROVED BY THE FINGINFER
- 4. UNDERGROUND UTILITIES AND DRAINAGE SYSTEMS SHOWN ON THE PLANS ARE BASED ON AVAILABLE SURVEYS AND AS-BUILT INFORMATION, THE LOCATION OF UNDERGROUND FACILITIES ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO VERIFY ALL UTILITY LOCATION AND DEPTHS.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN ALL SURFACE DRAINAGE WITHIN THE PROJECT LIMITS. ALL STORM FLOW MUST BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE DIRECTED BY ENGINEER.
- ANY EXISTING DRAINAGE FACILITIES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS/HER EXPENSE, THIS WORK SHALL MEET WITH THE SATISFACTION OF THE ENGINEER.
- 7. ALL STORM SEWERS ARE RCP UNLESS OTHERWISE NOTED.
- 8. OFFSETS AND TOP OF FRAME OR LID ELEVATIONS FOR STRUCTURES LOCATED IN THE GUTTER ARE GIVEN AS THE EDGE OF PAVEMENT.
- 9. OFFSETS AND TOP OF FRAME OR LID ELEVATIONS FOR STRUCTURES NOT LOCATED IN THE GUTTER ARE GIVEN TO THE CENTER OF THE STRUCTURE.
- 10. THE COST OF MAKING STORM SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER OR DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE STORM SEWER BEING CONNECTED.
- 11. THE CONTRACTOR SHALL CONTACT THE OWNER OF EACH FRAME, GRATE, AND LID SHOWN TO BE REMOVED IN ORDER TO DETERMINE IF THE OWNER DESIRES TO SALVAGE THEM. IF THE OWNER WANTS TO SALVAGE THEM THE CONTRACTOR SHALL STORE THE ITEMS AS STATED IN ARTICLE 106.06 OF THE STANDARD SPECIFICATIONS FOR PICKUP BY STATE. COUNTY OR VILLAGE FORCES. IF THE OWNER DOES NOT WISH TO SALVAGE THE ITEMS THE CONTRACTOR SHALL DISPOSE OF THEM AS STATED IN ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- 12. THE EXISTING STORM SEWER TO REMAIN SHALL BE INSPECTED BY THE CONTRACTOR BEFORE CONSTRUCTION STARTS, ANY ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE.
- 13. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR DEWATERING TRENCH EXCAVATIONS AS WELL AS SHORING TRENCH WALLS DURING UTILITY AND STORM SEWER OPERATIONS. COMPLIANCE WITH THE ABOVE WILL BE INCLUDED IN THE UTILITY INSTALLATIONS.
- 14. ALL ABANDONED SEWER INVERTS SHALL BE PLUGGED WITH BRICK AND CLASS SI CONCRETE TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF THE STORM SEWER BEING REMOVED.
- 15. THE REMOVAL OF END SECTIONS SHALL BE PAID FOR AS "STORM SEWER REMOVAL".
- 16. UNDERDRAIN SLOPEWALL AND PIPE REMOVAL SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION".
- 17. REMOVAL OF ABANDONED WATERMAIN FOR INSTALLATION OF PROPOSED STORM SEWER SHALL SEWER SHALL SEWER SHALL SEWER SHALL SEWER SEWER BEING INSTALLED.

## **ENVIRONMENTAL NOTES**

 THE CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PREGUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

## **BUCKEYE PIPELINE CROSSING NOTES**

#### GENERAL GUIDELINES

- . WHEN ANY CONSTRUCTION ACTIVITY IS CONDUCTED IN OR AROUND THE 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.
- THE CROSSING PARTY SHALL NOT STORE ANY EQUIPMENT OR MATERIALS ON THE RIGHT-OF-WAY.

#### EXCAVATION AND CONSTRUCTION RESTRICTIONS

- 1. NO EQUIPMENT SHALL WORK DIRECTLY OVER THE PIPELINE.
- 2. WHEN EXCAVATING WITH THE RIGHT-OF-WAY. THE CROSSING PARTY'S BACKHOE SHALL HAVE A PLATE WELDED OVER THE TEETH OF THE BACKHOE BUCKET, AND THE SIDE CUTTERS MUST BE REMOVED PRIOR TO EXCAVATION. HOWEVER, IF WITH 24 INCHES OF THE OUTER EDGE OF THE PIPE (THIS "TOLERANCE ZONE" EXTENDS ON ALL SIDES OF THE PIPE), ONLY HAND EXCAVATION, AIR CUTTING, AND VACUUM EXCAVTION ARE PERMITTED.

### SPECIFIC GUIDELINES

- THE USE OF VIBRATORY EQUIPMENT LARGER THAN WALK-BEHIND UNITS IS NOT PERMITTED WITHIN 25 FEET OF THE PIPELINE.
- IF THE CROSSING PARTY ANTICIPATES CONSTRUCTION INDUCED VIBRATION ACTIVITY WITHIN 300 FEET OF THE PIPELINE, THEN CONTINUOUS TESTING MONITORED BY A SEISMOGRAPH LOCATED DIRECTLY OVER THE PIPELINE AT ITS CLOSEST TO THE ACTIVITY MUST BE CONDUCTED. THE CROSSING PARTY MUST PROVIDE, AT THEIR EXPENSE, THE MONITORING SERVICE WHICH MUST BE APPROVED BY BUCKEYE.

### LIST OF ILLINOIS HIGHWAY STANDARDS

rigi n	L ILLINUIS UIGUMAT STANDAKOS
280001-07	TEMPORARY EROSION CONTROL SYSTEM
353001-04	PCC BASE COURSE WITH HMA BINDER AND SURFACE COURSES
420001-07	PAVEMENT JOINTS 24' (7.2m) JOINTED PCC PAVEMENT
420101-04 420106-04	36' (10.8m) JOINTED PCC PAVEMENT
420111~03	PCC PAVEMENT ROUNDOUTS
420401-10	BRIDGE APPROACH PAVEMENT CONNECTOR
420701-02	PAYEMENT FABRIC
421001-02	BAR REINFORCEMENT FOR CRC PAVEMENT
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-01	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424026-01 442201-03	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-05	GRATING FOR CONCRETE FLARED END SECTION (FOR 24" (600mm) THRU 54" (1300mm PIPE)
601001-04	SUB-SURFACE DRAINS
602001-02	CATCH BASIN, TYPE A
602006-04	CATCH BASIN, TYPE B
602011-02	CATCH BASIN, TYPE C
602301-04 602306-03	INLET, TYPE A INLET, TYPE B
602401-03	MANHOLE, TYPE A
602406-06	MANHOLE, TYPE A. 6' (1.8m) DIAMETER
602411-04	MANHOLE, TYPE A, 7' (2.1m) DIAMETER
602416-04	MANHOLE, TYPE A, 8' (2.4m) DIAMETER
602421-04	MANHOLE, TYPE A, 9' (2.7m) DIAMETER
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS, TYPE 1 GRATE TYPE 7
604031-02 604051-03	FRAME AND GRATE, TYPE 11
	FRAME AND GRATE, TYPE 20
604091-02	FRAME AND GRATE, TYPE 24
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
606306-03	CORRUGATED PC CONCRETE MEDIANS
630001-10 630301-06	STEEL PLATE BEAM GUARDRAIL
631011-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS TRAFFIC BARRIER TERMINAL, TYPE 2
631031-12	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
643001-02	SAND MODULE IMPACT ATTANUATORS
664001-02	CHAIN LINK FENCE
701101~04 701106~02	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24' (600mm) FROM PAVEMENT EDGE
701427-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER, FOR SPEEDS ≤ 40 MPH
701602-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-04 781001-03	TYPICAL PAVEMENT MARKINGS TYPICAL APPLICATIONS PARCED DESCRIPTION DANGMENT MARVEDS
814001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877006-04	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
878001-09 880006-01	CONCRETE FOUNDATION DETAILS TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS
000001-06	STANDARD SYMBOLS. ABBREVIATIONS AND PATTERNS
001001-02	ADEAS OF BEINEODOENENT DADS

# **PROJECT COMMITMENTS:**

THERE ARE NO PROJECT COMMITMENTS



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USER NAME * dehermen	DESIGNED	-	DSS	REVISED -
	DRAWN	-	DRP	REVISED -
PLOT SCALE = 1'	CHECKED	-	VJD	REVISED -
PLOT DATE = 1/30/2014	DATE	-	01/31/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, COMMITMENTS AND INDEX OF STATE STANDARDS

SHEET NO. 2 OF 2 SHEETS

001001-02

AREAS OF REINFORCEMENT BARS

DECIMAL OF AN INCH AND OF A FOOT