SHEET NO.	STANDARD NO.	DESCRIPTION
71	BD-22	PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT
72	BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
73	TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
74	TC-17	TRAFFIC CONTROL DETAILS FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
75	TC-18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
76	TC-22	ARTERIAL ROAD INFORMATION SIGN
	BD-12	MANHOLE WITH RESTRICTOR PLATE
	TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
	TC-24	CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS (2 SHEETS)

## LIST OF IDOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001	TEMPORARY EROSION CONTROL SYSTEMS
420001	PAVEMENT JOINTS
420101	24' JOINTED PCC PAVEMENT
420111	PCC PAVEMENT ROUNDOUTS
420701	PAVEMENT FABRIC
442201	CLASS C AND D PATCHES
601001	SUB SURFACE DRAINS
601101	CONCRETE HEADWALL FOR PIPE DRAIN
602001	CATCH BASIN - TYPE A
602401	MANHOLE - TYPE A
604001	FRAME AND LIDS - TYPE 1
606001	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
664001	CHAIN LINK FENCE
701101	OFF-ROAD OPERATIONS, MULTI-LANE, 15' TO 24" FROM PAVEMENT EDGE
701106	OFF-ROAD OPERATIONS, MULTI-LANE, MORE THAN 15' AWAY
701400	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701426	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION FOR SPEEDS >45 MPH
701701	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801	LANE CLOSURE, MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901	TRAFFIC CONTROL DEVICES
720006	SIGN PANEL ERECTION DETAILS
720011	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS)
729001	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS)

## **GENERAL NOTES:**

- THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. SITE ACCESS. POWER SUPPLY AND OTHER ITEMS THAT AFFECT THE CONTRACT AND THE CONSTRUCTION OF THE IMPROVEMENT.
- 2. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATIONS OR A CHANGE IN THE SCOPE OF THE WORK.
- 3. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS
  HAVE BEEN OBTAINED BY FIELD SURVEYS AND SEARCHES OF AVAILABLE RECORDS.
  IT IS BELIEVED THAT THIS DATA IS ESSENTIALLY CORRECT. BUT THE
  DEPARTMENT AND OTHERS ASSOCIATED WITH THESE PLANS DO NOT GUARANTEE
  THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR WILL BE REQUIRED TO
  VERIFY THE EXACT LOCATION OF EACH FACILITY WITH THE UTILITY COMPANY WHEN
  THE POTENTIAL EXISTS FOR INVOLVEMENT AND SHALL TAKE DUE CARE IN ALL
  PHASES OF THE CONSTRUCTION TO PROTECT ANY SUCH FACILITIES WHICH MAY
  BE AFFECTED BY THE WORK, ANY DAMAGES TO THE UTILITIES SHALL BE REPAIRED
  AT THE CONTRACTORS EXPENSE.
- ALL MECHANICAL AND ELECTRICAL EQUIPMENT REMOVED FROM THE PUMP STATION SHALL BECOME THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION. BUREAU OF ELECTRICAL OPERATIONS. IF AT THE TIME OF REMOVAL THE ENGINEER DECIDES THAT THE EQUIPMENT IS NOT USABLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND PROPERLY DISPOSED OF OFFSITE.
- 5. IN GENERAL. PRIOR TO CUTTING OPENINGS IN THE EXISTING REINFORCED CONCRETE SLABS AND WALLS. THE CONTRACTOR SHALL IDENTIFY EXACT LOCATIONS OF MAIN REINFORCING BARS (REBAR DETECTOR OR OTHER APPROVED PROCEDURE). THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO CUTTING REINFORCED CONCRETE.
- 6. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE OSHA REGULATIONS.
- ALL EXPOSED CORNERS ON STRUCTURAL CONCRETE SHALL BE CHAMFERED 19mm (3/4").
- CLASS SI CONCRETE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS
  SHALL BE USED FOR ALL CONCRETE WORK WITHIN THE BUILDING. IDOT STANDARD
  SPECIFICATIONS SHALL GOVERN ALL OTHER CONCRETE WORK OUTSIDE OF THE BUILDING.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-331M (1.1- 311, M-42M (M-42) OR M-53M (M-53) GRADE 400 (601.
- 10. SAW CUTTING WILL NOT BE PAID FOR SEPARATELY BUT SHOULD BE CONSIDERED INCLUDED IN THE ITEM BEING REMOVED.
- 11. STRUCTURAL DESIGN DATA FOR WORK INSIDE BUILDING:

REINFORCING STEEL fy = 413.640 kPA (60.000 psI) CONCRETE fee = 24.000 kPA (3.500 psI) 14 DAYS CONCRETE fee = 27.400 kPA (4.000 psI) 28 DAYS

- 12. THE CONTRACTOR SHALL SUBMIT A DETAILED WRITTEN AND DIAGRAMMED SEQUENCE OF WORK PRIOR TO ANY CONSTRUCTION ACTIVITY FOR REVIEW AND APPROVAL BY THE ENGINEER. THIS SCHEDULE SHALL BE UPDATED AS NECESSARY TO CLEARLY IDENTIFY WORK SCHEDULE AND MAINTAIN OPERATION OF THE FACILITY AT ALL TIMES. THESE SHEETS DEPICT BASIC REMOVAL AND PROPOSED CONSTRUCTION REQUIREMENTS. TO MAINTAIN THE FACILITY IN CONTINUOUS OPERATION DURING THE CONSTRUCTION PERIOD. TEMPORARY EQUIPMENT AND WIRING CONNECTIONS MAY BE REQUIRED. SUCH WORK SHALL BE STAGED BY THE CONTRACTOR TO FACILITATE THE PROJECT WITHOUT JEOPARDIZING THE OPERATING INTEGRITY OF THE STATION. THE PUMPING CAPACITY OF THE EXISTING STATION MUST BE MAINTAINED AT ALL TIMES (SPECIFIED STATION PUMPING CAPACITY 227.1 m3/m OR 60.000 opm). THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE ENGINEER FOR ALL TEMPORARY WORK. REFER TO THE SPECIAL PROVISIONS.
- 13. NOTE THAT DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE PUMPING STATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE'S ELECTRICAL MAINTENANCE CONTRACT. SHORT-TERM SHUTDOWN WILL BE PERMITTED WITH SPECIFIC WRITTEN PERMISSION (SEE SPECIAL PROVISIONS).
- 14. ALL EXPOSED CONDUITS SHALL BE TIGHTLY GROUPED.
- 15. COORDINATE EXACT LOCATION OF ALL WORK INCLUDING MAJOR COMPONENTS. WITH THE ENGINEER, BEFORE INSTALLATION.

| CONTRACT NO. 60828 | F.A.P | SECTION | COUNTY | TOTAL NO. 1 NO.

D-91-411-99

16. ANY SITE AREA DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR, TO THE SATISFACTION OF THE ENGINEER, AT NO ADDITIONAL COST.

- 17. ALL SHOP DRAWINGS. MATERIAL SAMPLES ETC, MUST BE SUBMITTED AND APPROVED BY THE ENGINEER BEFORE INSTALLATION.
- 3. ALL CONCRETE CONSTRUCTION JOINTS BETWEEN NEW AND EXISTING STRUCTURAL CONCRETE SHOWN ON THE PLANS OR ADDED BY THE CONTRACTOR SHALL BE BONDED CONSTRUCTION JOINTS IN ACCORDANCE WITH ARTICLE 503.09(b) OF THE IDOT STANDARD SPECIFICATIONS.
- 19. CRUSHED SLAG SHALL NOT BE USED AS AN AGGREGATE MATERIAL
- 20. FIBERGLASS GRATING SHALL BE ONE PIECE CONSTRUCTION, 1" HEAVY-DUTY WITH 1" ON CENTER AND CROSS RODS 6" ON CENTER RESIN SHALL BE FIRE RETARDANT VINYL ESTER MEETING THE REQUIREMENTS OF CLASS 1 RATING OF 25 OR LESS PER ASTM E-84 AND MEETS SELF EXTINGUISHING REQUIREMENTS OF ASTM D-635. THE TOP OF PANELS SHALL BE COVERED WITH A ANTI-SKID SURFACE.
- 21. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE LATEST (1) AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, (2) AISC CODE OF STANDARD PRACTICE, (3) SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS. (4) AISC QUALITY CERTIFICATION PROGRAM.
- 22. ALL STRUCTURAL STEEL W AND WT ROLLED SECTIONS SHALL CONFORM TO ASTM A992, GRADE 50 (TYP. U.N.). ALL PLATES, ANGLES, CHANNELS AND S BEAMS SHALL CONFORM TO ASTM A36, U.N. ALL HSS SHAPES SHALL CONFORM TO ASTM A500 GR.B.
- 23. SUFFIX (E) REPRESENTS EXISTING MEMBERS AND/OR CONSTRUCTION.
- 24. ALL DESIGN WELDS ARE BASED ON LOW-HYDROGEN ELECTRODE WITH A MINIMAL TENSILE STRENGTH OF 70 KSI, U.N.O.
- 25. ALL WELDING MATERIALS, WELDING PROCEDURES AND QUALIFICATIONS OF WELDING OPERATORS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWS D1.1, STRUCTURAL WELDING CODE, PREPARED BY THE AMERICAN WELDING SOCIETY (AWS).
- 26. ALL NUTS AND BOLTS FOR STRUCTURAL STEEL SHALL BE 3/4 "DIAMETER, HIGH STRENGTH GALVANIZED BOLTS CONFORMING TO ASTM A325SC U.N.O. THE ASSEMBLY AND INSTALLATION OF ALL NUTS, BOLTS AND WASHERS SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS. CONNECTIONS SHALL BE SLIP CRITICAL.
- 27. ALL CONNECTIONS NOT DETAILED SHALL BE STANDARD SHEAR CONNECTIONS IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION, NINTH EDITION, PART 4, PAGE 19, TABLE II, "FRAMED BEAM CONNECTIONS" WITH ANGLE WEB LEGS WELDED AS PER PART 4, PAGE 26, TABLE III, CASE 1, UNLESS NOTED OTHERWISE.
- 28. ALL STRUCTURAL AND MISCELLANEOUS STEEL COMPONENTS SHALL BE HOT DIP GALVANIZED. FIELD WELD JOINT(S) SHALL BE THOROUGHLY CLEANED UP AND APPLIED WITH 2 COATS OF RUST-INHIBITIVE ZINC PAINT (3 MILS MIN. EACH COAT).
- 29. HOIST BEAM AND MISCELLANEOUS STEEL COMPONENTS SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE PRIMER SUCH AS SHERWIN-WILLIAMS "KEM KROMIC" OR EQUAL.
- 30. SHOP TO OMIT PAINT 2" OF ALL FIELD WELDED CONNECTIONS. FIELD TO MECHANICALLY REMOVE GALVANIZING WITHIN 2" OF ALL FIELD WELDED CONNECTIONS, AND TOUCH-UP AS REQUIRED. TOUCH-UP GALVANIZING WITH RUSTOLEUM NO. 2117 OR APPROVED EQUAL.
- 31. PRIOR TO INSTALLATION OF DRILL-IN ANCHORS, CONTRACTOR SHALL USE A METAL DETECTOR TO IDENTIFY THE LOCATIONS OF THE EXISTING REBARS NEAR INSTALLATION POINT AND ADJUST ANCHOR LOCATIONS SLIGHTLY AS REQUIRED SO THAT THE EXISTING REBARS WILL NOT BE DAMAGED.
- 32. WHEN CUTTING THE EXISTING REINFORCEMENT OR EMBEDDED STEEL, CONTRACTOR SHALL OVERCUT THE EXISTING REINFORCEMENT OR EMBEDDED STEEL SLIGHTLY AND APPLY EPOX\* PATCHING COMPOUND OVER EXPOSED STEEL TO FORM A 1/8 "OVERLAY IN ORDER TO PREVENT FUTURE CORROSION, UNLESS SHOWN OR NOTED OTHERWISE.
- 33. ALL WORK WITHIN THE PUMP STATION BUILDING IS TO BE INCLUDED IN THE COST OF THE FOLLOWING PAY CODE ITEMS: COMPLETE MAIN PUMP ASSEMBLY, COMPLETE LOW FLOW PUMP ASSEMBLY, PUMP STATION SCADA EQUIPMENT, PUMP STATION GENERAL WORK, PUMP STATION ELECTRICAL WORK & PUMP STATION MECHANICAL WORK. OTHER PAY CODE ITEMS LISTED IN THE SUMMARY OF QUANTITIES (SHEET G-4) ARE FOR SITEWORK OUTSIDE OF THE PUMP STATION BUILDING.



ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & STANDARDS

SCALE: VERT. NO SCALE HORIZ. DATE: 3/23/2010

DRAWN BY: T.K.
CHECKED BY: K.F.