

KANKAKEE VALLEY AIRPORT AUTHORITY

KANKAKEE, ILLINOIS

TOTAL SHEETS: 7

CONSTRUCTION PLANS FOR GREATER KANKAKEE AIRPORT

CONSTRUCT SOUTHEAST QUADRANT FIRE PROTECTION

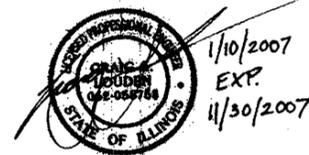
SUMMARY OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	RECORD QUANTITY
AR156631	EROSION CONTROL BLANKET	SY	2,650	
AR401910	REMOVE & REPLACE BIT. PAVEMENT	SY	120	
AR701512	12" RCP, CLASS IV	LF	18	
AR781830	TRENCH BACKFILL	CY	150	
AR701900	REMOVE PIPE	LF	36	
AR780504	4" DUCTILE IRON WATERMAIN	LF	100	
AR780508	8" DUCTILE IRON WATERMAIN	LF	1,190	
AR780900	FIRE HYDRANT	EACH	3	
AR780930	WATER VALVE	EACH	5	
AR780950	WATER VAULT	EACH	1	
AR770508	6" SANITARY SEWER	LF	40	
AR800019	FRESH WATER WELL ABANDONMENT	EACH	1	
AR800064	REMOVE AND REPLACE FENCE	LF	20	
AR901510	SEEDING	ACRE	0.80	
AR906630	TOPSOILING	SY	2,650	

CMT 06075-02
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 SPRINGFIELD, ILLINOIS
 AURORA, ILLINOIS
 ST. LOUIS, MISSOURI
 ROCKFORD, ILLINOIS
 EAST ALTON, ILLINOIS

SUBMITTED BY: *[Signature]*
 CRANE LOUDEN, P.E.

DATE: 1/10/2007 2007



ILLINOIS PROJECT: IKK-3661
 A.I.P. PROJECT: 3-17-0057-B13

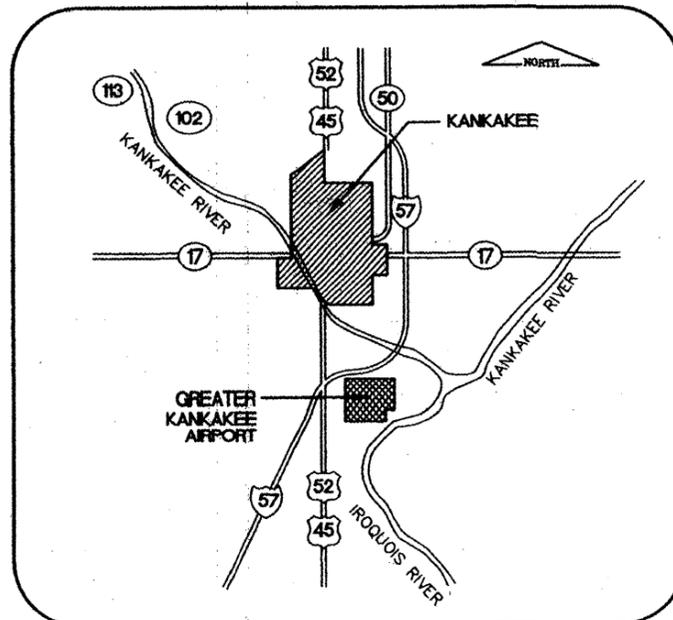
JANUARY 26, 2007

KANKAKEE VALLEY AIRPORT AUTHORITY

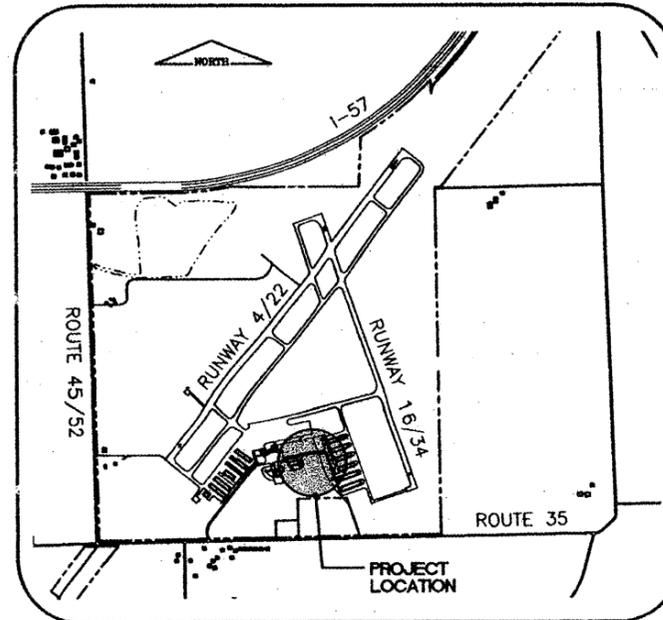
APPROVED: *[Signature]*
 AIRPORT MANAGER

DATE: 1-4-07 2007

CALL J.U.L.I.E.
 BEFORE EXCAVATING
 1-800-892-0123
 KANKAKEE VALLEY AIRPORTY AUTHORITY
 GREATER KANKAKEE AIRPORT
 TOWNSHIP: T 30 N
 RANGE: R 12 E
 SECTIONS 20 & 21
 COUNTY: KANKAKEE
 TOWNSHIP: OTTO



SITE PLAN



LOCATION MAP

INDEX TO SHEETS

- COVER SHEET
- SITE PLAN AND SEQUENCE OF CONSTRUCTION PER AC 150/5370-2E (LATEST EDITION)
- STORMWATER POLLUTION PREVENTION PLAN
- PLAN AND PROFILE
STA. 0+00 TO STA. 7+50
- PLAN AND PROFILE
STA. 7+50 TO STA. 12+25.53
- AQUA ILLINOIS NOTES AND DETAILS - SHEET 1
- AQUA ILLINOIS NOTES AND DETAILS - SHEET 2

GENERAL NOTES

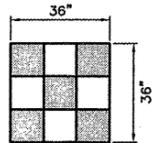
- THE SUGGESTED SEQUENCE OF CONSTRUCTION SHOWN IS INTENDED TO ALLOW FOR THE ORDERLY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS WHILE MAINTAINING AIRCRAFT ACCESS AT ALL TIMES. THE PHASING SHOWN IS A SUGGESTED SEQUENCE OF CONSTRUCTION ONLY. THIS SEQUENCE MAY BE MODIFIED WITH PRIOR APPROVAL. HOWEVER, ALTERNATE STAGING PLANS MUST MAINTAIN AIRPORT OPERATIONS TO THE SATISFACTION OF THE AIRPORT MANAGER AND RESIDENT ENGINEER AND BE APPROVED BY THE DIVISION OF AERONAUTICS AND FEDERAL AVIATION ADMINISTRATION.
- ALL OPERATIONS SHALL BE IN CONFORMANCE WITH AC 150/5370-2E SAFETY DURING CONSTRUCTION. (LATEST EDITION).
- CONTRACTOR'S EQUIPMENT SHALL BE STORED IN THE EQUIPMENT AND MATERIAL STORAGE AREA WHEN CONSTRUCTION IS NOT IN PROGRESS.
- THE AIRPORT MANAGER IN CONSULTATION WITH THE RESIDENT ENGINEER SHALL HAVE FINAL SAY IN THE APPROVAL OF THE CONSTRUCTION OPERATING SEQUENCE AS IT RELATES TO PEDESTRIAN, VEHICULAR AND AIRCRAFT SAFETY.
- ALL EXISTING PAVEMENTS, DRIVES OR ANY OTHER AREAS USED AS A HAUL ROAD OR STORAGE AREA BY THE CONTRACTOR SHALL BE RESTORED IN KIND TO THEIR PRE-CONSTRUCTION CONDITION OR TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER. THE COST OF MAINTAINING, REPAIRING OR CONSTRUCTING THESE PAVEMENTS AND AREAS SHALL BE INCIDENTAL TO THE CONTRACT. EXISTING AREAS OUTSIDE THE PROJECT LIMITS WHICH ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND THE AIRPORT MANAGER.
- THE CONTRACTOR SHALL KEEP ALL TRUCKS, EQUIPMENT AND MATERIALS OFF OF THE EXISTING TAXIWAYS, APRONS AND RUNWAYS OUTSIDE OF THE PROJECT LIMITS EXCEPT AS SHOWN OR WITH THE PRIOR PERMISSION OF THE ENGINEER.
- WORK PERFORMED BY THE CONTRACTOR OUTSIDE OF DAYLIGHT HOURS SHALL BE DONE UNDER SUFFICIENT ARTIFICIAL LIGHTING TO ALLOW FOR PROPER CONSTRUCTION METHODS AND INSPECTIONS. LIGHT SHALL CONSIST OF MOVABLE POLE MOUNTED FLOODLIGHTS AND/OR SPOTLIGHTS OF SUFFICIENT NUMBER TO ILLUMINATE THE WORK AREA. VEHICLE HEADLIGHTS WILL BE ALLOWED ONLY IN ADDITION TO OTHER LIGHTS MENTIONED ABOVE. LIGHTING SHALL BE AS APPROVED BY THE ENGINEER AND SHALL NOT BE USED IF THEY AFFECT FLIGHT SAFETY.
- THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER ON-SITE FOR USE AT ALL TIMES. WHEN PAVEMENTS ARE UTILIZED AS HAUL ROADS BY THE CONTRACTOR, MATERIAL TRACKED ON TO THE PAVEMENT SHALL BE CONTINUALLY REMOVED WITH SAID SWEEPER. THIS SWEEPING SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- MATERIALS REMOVED FROM THE PROJECT SHALL BE SATISFACTORILY DISPOSED OF OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
- PAYMENT FOR TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO BARRICADES, SIGNING, RUNWAY CLOSED MARKERS, AIR OPERATIONS AREA (A.O.A.) LATHES AND RIBBON, ETC. SHALL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. BARRICADES AT 10-FOOT CENTERS SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. BARRICADES SHALL BE WEIGHTED TO PREVENT BLOWING OVER. BARRICADES SHALL HAVE A FLASHING YELLOW LIGHT AND CONFORM TO IDOT STANDARD 702001, TYPE II. BARRICADE INSTALLATION WILL BE REQUIRED PRIOR TO ACCESS TO THE A.O.A. BY CONTRACTOR'S WORKERS, EQUIPMENT OR MATERIAL.
- THE CONTRACTOR SHALL CONTACT THE AIRPORT MANAGER THROUGH THE RESIDENT ENGINEER (5) WORKING DAYS IN ADVANCE OF THE START OF CONSTRUCTION SO THAT THE APPROPRIATE NOTAMS MAY BE ISSUED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL CONSTRUCTION ACCESS GATES CLOSED DURING NON WORKING HOURS. THE CONTRACTOR SHALL PROVIDE A SIGN AT THE ACCESS GATE SAYING "AUTHORIZED PERSONNEL ONLY". THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE UPON LEAVING THE SITE. THROUGHOUT THE DURATION OF THE CONTRACT, ANY DAMAGES TO THE ACCESS ROAD, ACCESS GATE OR FENCING ADJACENT TO THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE RESIDENT ENGINEER. ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR WILL BE REQUIRED TO PUT AIRPORT FLAGS AND HAVE BEACON LIGHTS ON ALL EQUIPMENT AT ALL TIMES DURING CONSTRUCTION. SEE FLAG DETAIL, THIS SHEET.
- IN THE CASE OF AN EMERGENCY, CONTRACTOR SHALL NOTIFY AIRPORT MANAGER AND THE ENGINEER IMMEDIATELY.
- DURING ADVERSE WEATHER, THE CONTRACTOR SHALL MAKE PROVISIONS FOR ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK.
- NO PERSONAL VEHICLES WILL BE ALLOWED BEYOND THE CONTRACTOR'S STAGING AREA.
- WATERMAIN INSTALLATION WORK BENEATH AIRPORT ENTRANCE ROAD REQUIRING TEMPORARY ROAD CLOSURES SHALL BE EXPEDITED TO MINIMIZE INTERRUPTION TO AIRPORT USERS.
- AQUA ILLINOIS REQUIRES 2-WEEK NOTICE OF CONSTRUCTION START DATE.

CONTRACTOR SHALL PLAN AND PERFORM HIS WORK SO AS NOT TO INTERFERE OR HINDER THE PROGRESS, WORK OR HAUL ROAD ACCESS OF OTHER CONTRACTORS (SEE SPECIAL PROVISIONS SECTION 30-05). THE PRIME CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE CONSTRUCTION ACTIVITIES AND ACCESS BETWEEN ALL ON-SITE CONTRACTORS SUBCONTRACTORS. IT IS ANTICIPATED THE FOLLOWING PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT:

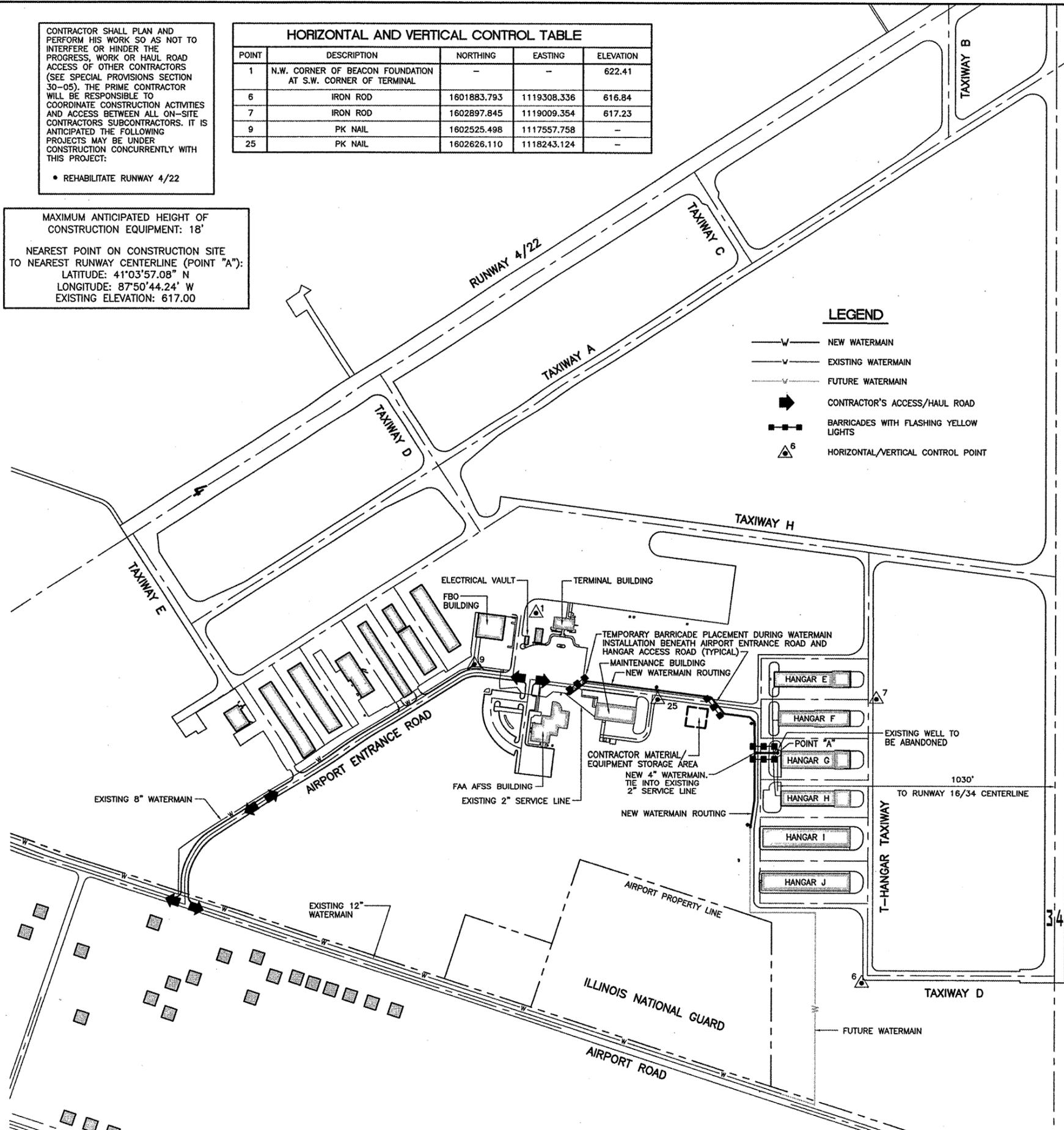
- REHABILITATE RUNWAY 4/22

MAXIMUM ANTICIPATED HEIGHT OF CONSTRUCTION EQUIPMENT: 18'
 NEAREST POINT ON CONSTRUCTION SITE TO NEAREST RUNWAY CENTERLINE (POINT "A"):
 LATITUDE: 41°03'57.08" N
 LONGITUDE: 87°50'44.24" W
 EXISTING ELEVATION: 617.00

HORIZONTAL AND VERTICAL CONTROL TABLE				
POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	N.W. CORNER OF BEACON FOUNDATION AT S.W. CORNER OF TERMINAL	-	-	622.41
6	IRON ROD	1601883.793	1119308.336	616.84
7	IRON ROD	1602897.845	1119009.354	617.23
9	PK NAIL	1602525.498	1117557.758	-
25	PK NAIL	1602626.110	1118243.124	-



CONSTRUCTION EQUIPMENT AND TRUCK SIGNAL FLAG
 ORANGE/WHITE



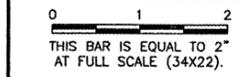
LEGEND

- NEW WATERMAIN
- EXISTING WATERMAIN
- FUTURE WATERMAIN
- CONTRACTOR'S ACCESS/HAUL ROAD
- BARRICADES WITH FLASHING YELLOW LIGHTS
- HORIZONTAL/VERTICAL CONTROL POINT

KA037

K:\kankakee\p\0607502 Watermain\Draw\Sheets
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 UPDATE BY: Jim Ohse
 SURVEY BOOK #
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REVISIONS		
NUMBER	BY	DATE



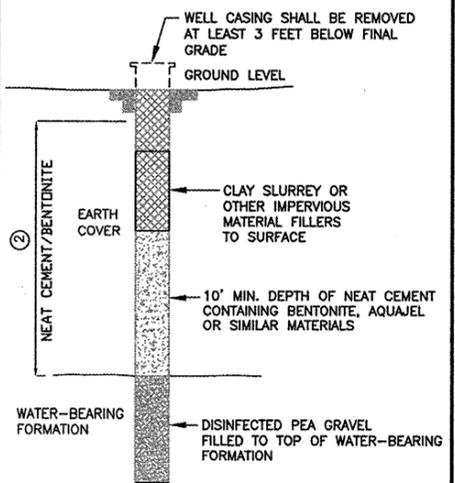
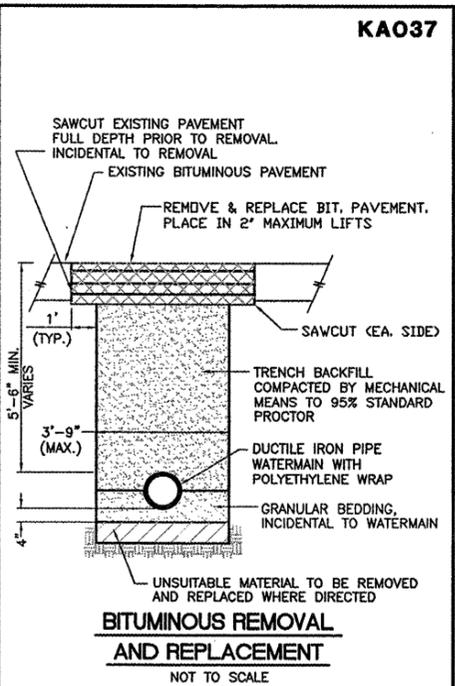
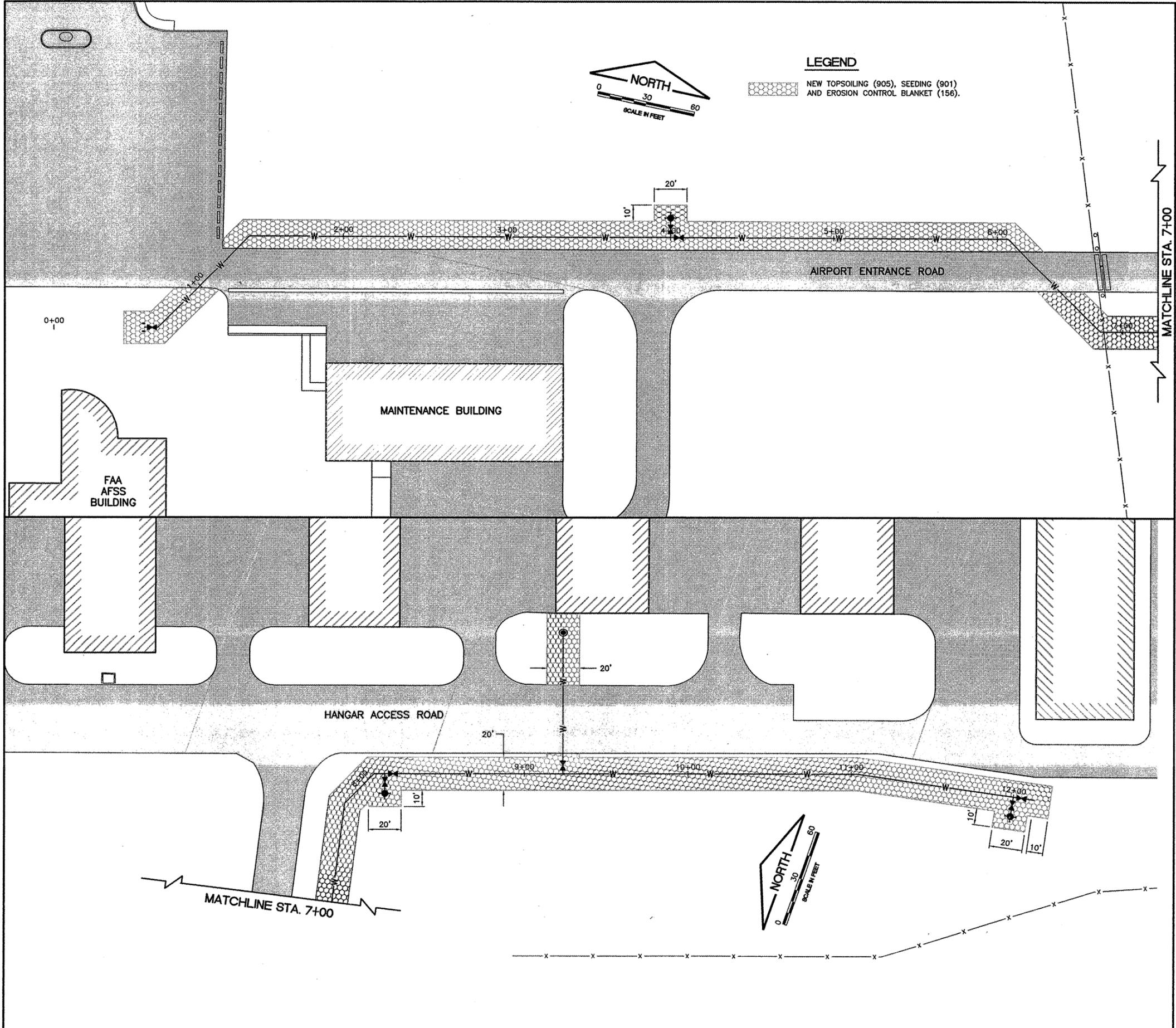
**GREATER KANKAKEE AIRPORT
 KANKAKEE, ILLINOIS**

**CONSTRUCT SOUTHEAST QUADRANT FIRE PROTECTION
 SITE PLAN/SEQUENCE OF CONSTRUCTION
 PER AC 150/5370-2E (LATEST EDITION)**

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DRAWN BY:	JRO
CHECKED BY:	CAL
APPROVED BY:	CAL
DATE:	01/26/07
JOB No:	06075-02

IL PROJECT: IKK-3661
 A.I.P. PROJECT: 3-17-0057-B13
 SHEET 2 OF 7 SHEETS



NOTES

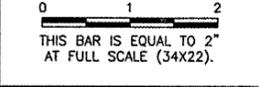
- DETAILED DESCRIPTION OF ABANDONED WELL SEALING AND DISINFECTION CAN BE FOUND IN SECTIONS 920.100 (b) AND 920.120 OF THE ILLINOIS WATER WELL CONSTRUCTION CODE AVAILABLE THROUGH THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH.
- THE WELL IS APPROXIMATELY 75'-100' DEEP THE EXISTING WELL LOG IS NOT AVAILABLE. SEAL WELL WITH NEAT CEMENT CONTAINING BENTONITE OR AQUAJEL AS STATED IN SECTION 921.120 b)7 OF THE WATER WELL CONSTRUCTION CODE.
- WELL SHALL BE ABANDONED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF ILLINOIS DEPARTMENT OF PUBLIC HEALTH. REMOVE AND DISPOSE OFF SITE THE EXISTING MOTOR, TURBINE PUMP, COLUMN, PIPE, LINE SHAFT, PIPING VALVES, ELECTRICAL GEAR AND ALL OTHER ITEMS IN WELL. DEMOLISH, REMOVE AND DISPOSE OFF SITE THE WELL STRUCTURE TO 3' BELOW FINAL GRADE. BELOW GRADE STRUCTURES SHALL BE FILLED WITH EARTH TO EXISTING GRADE. SEAL WELL AS REQUIRED. BACKFILL EXCAVATION WITH EARTH FILL AND COMPACT TO SATISFACTION OF RESIDENT ENGINEER.

KA037

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UPDATE BY: Jim Ohse
SURVEY BOOK #
DATE: Thursday, February 12, 2009 1:59:09 PM
XREF DWG: tbcint.dwg
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wrn-base.dwg

REVISIONS

NUMBER	BY	DATE



**GREATER KANKAKEE AIRPORT
KANKAKEE, ILLINOIS**

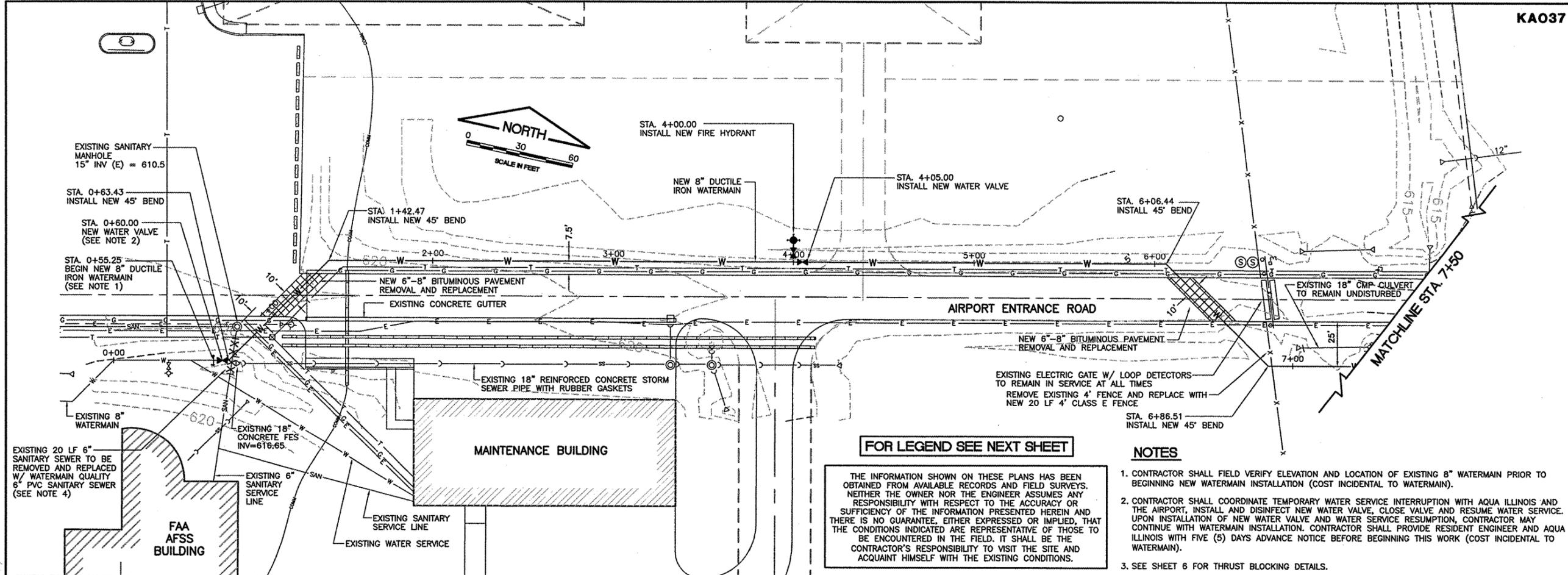
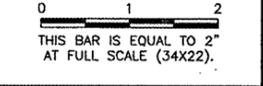
**CONSTRUCT SOUTHEAST QUADRANT FIRE PROTECTION
STORMWATER POLLUTION PREVENTION PLAN**

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IL PROJECT:	IKK-3661
A.I.P. PROJECT:	3-17-0057-B13
SHEET	3 OF 7 SHEETS

REVISIONS		
NUMBER	BY	DATE

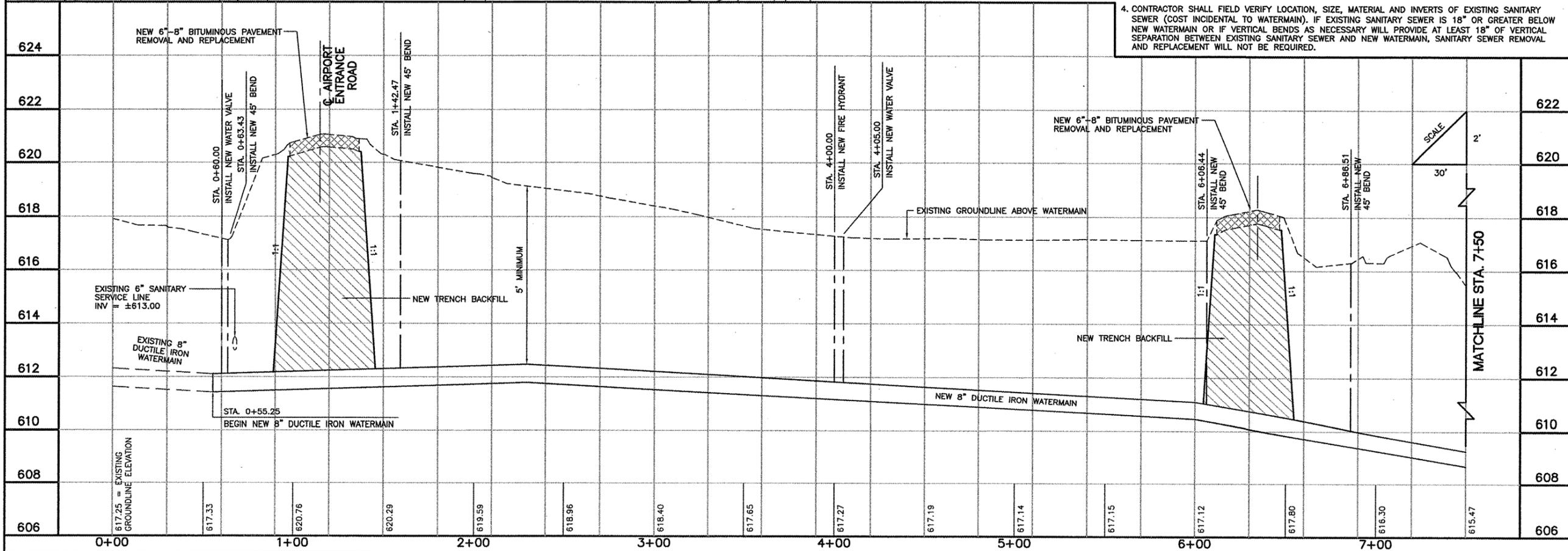


FOR LEGEND SEE NEXT SHEET

THE INFORMATION SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS AND FIELD SURVEYS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WITH RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE INFORMATION PRESENTED HEREIN AND THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE CONDITIONS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE FIELD. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACQUAINT HIMSELF WITH THE EXISTING CONDITIONS.

NOTES

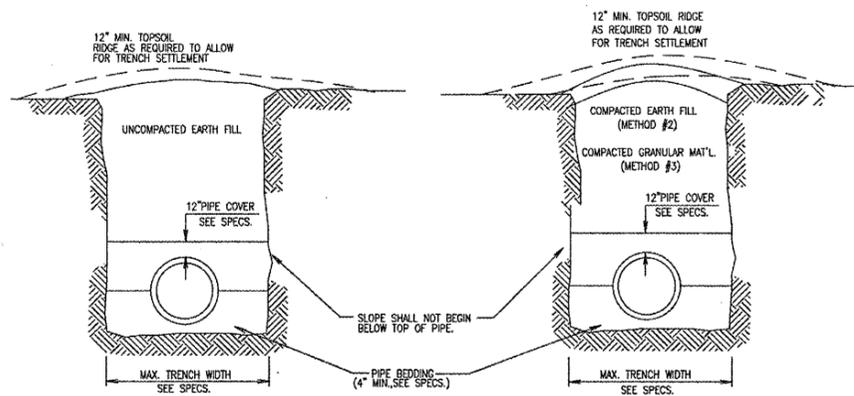
- CONTRACTOR SHALL FIELD VERIFY ELEVATION AND LOCATION OF EXISTING 8" WATERMAIN PRIOR TO BEGINNING NEW WATERMAIN INSTALLATION (COST INCIDENTAL TO WATERMAIN).
- CONTRACTOR SHALL COORDINATE TEMPORARY WATER SERVICE INTERRUPTION WITH AQUA ILLINOIS AND THE AIRPORT, INSTALL AND DISINFECT NEW WATER VALVE, CLOSE VALVE AND RESUME WATER SERVICE. UPON INSTALLATION OF NEW WATER VALVE AND WATER SERVICE RESUMPTION, CONTRACTOR MAY CONTINUE WITH WATERMAIN INSTALLATION. CONTRACTOR SHALL PROVIDE RESIDENT ENGINEER AND AQUA ILLINOIS WITH FIVE (5) DAYS ADVANCE NOTICE BEFORE BEGINNING THIS WORK (COST INCIDENTAL TO WATERMAIN).
- SEE SHEET 6 FOR THRUST BLOCKING DETAILS.
- CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE, MATERIAL AND INVERTS OF EXISTING SANITARY SEWER (COST INCIDENTAL TO WATERMAIN). IF EXISTING SANITARY SEWER IS 18" OR GREATER BELOW NEW WATERMAIN OR IF VERTICAL BENDS AS NECESSARY WILL PROVIDE AT LEAST 18" OF VERTICAL SEPARATION BETWEEN EXISTING SANITARY SEWER AND NEW WATERMAIN, SANITARY SEWER REMOVAL AND REPLACEMENT WILL NOT BE REQUIRED.



GREATER KANKAKEE AIRPORT
 KANKAKEE, ILLINOIS
 CONSTRUCT SOUTHEAST QUADRANT FIRE PROTECTION
 PLAN AND PROFILE
 STA. 0+00 TO STA. 7+50

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DATE:	01/26/07
JOB No:	06075-02
IL PROJECT: IKK-3661 A.I.P. PROJECT: 3-17-0057-813	
SHEET 4 OF 7 SHEETS	

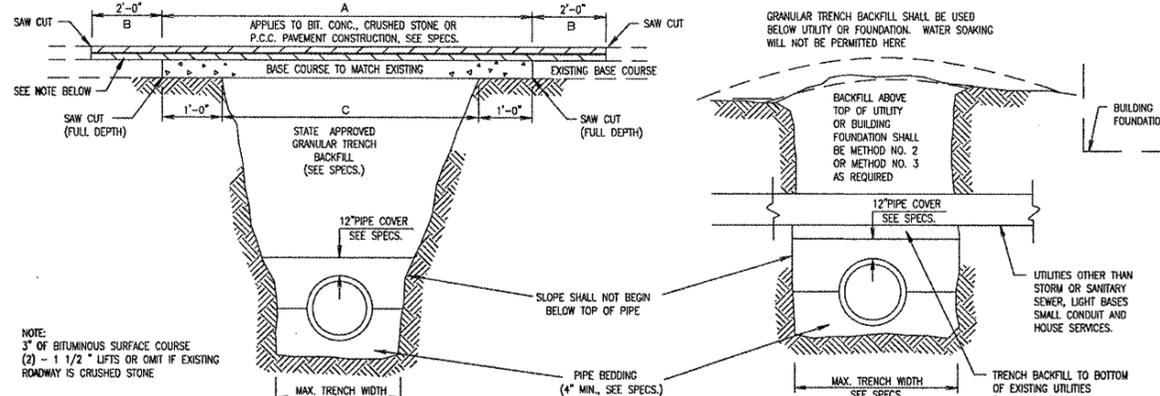


BACKFILL METHOD NO. 1

FOR BACKFILLING IN OPEN AREAS, SUCH AS CROPLAND OR OTHER ZONES WITH UNCLASSIFIED AND NON-IMPROVED SURFACES

BACKFILL METHOD NO. 2 OR 3

FOR BACKFILLING IN SODDING OR GRASSED AREAS (EXCEPT NEAR BUILDING FOUNDATION) AND BENEATH OR ALONG NON-RIGID SURFACES.



BACKFILL METHOD NO. 4

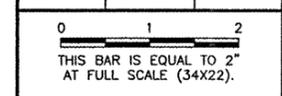
FOR BACKFILLING BENEATH CONCRETE, ASPHALT CRUSHED STONE AND OIL & CHIP SURFACES, INCLUDING SIDEWALKS, DRIVES, PARKING AREAS, ETC.
 A. EXISTING SURFACE IN THIS AREA TO BE REMOVED FIRST (SAW CUT FULL DEPTH).
 B. ADDITIONAL PAVEMENT TO BE REMOVED.

NOTE:
 FOR ACCEPTABLE GRANULAR TRENCH BACKFILL MATERIAL, SEE SPEC. SECTION 02222.

BACKFILL METHOD NO. 5

FOR BACKFILLING NEAR BUILDING FOUNDATIONS OR OTHER STRUCTURES OR UTILITIES PRESENTING SPECIAL HAZARDS.

REVISIONS		
NUMBER	BY	DATE



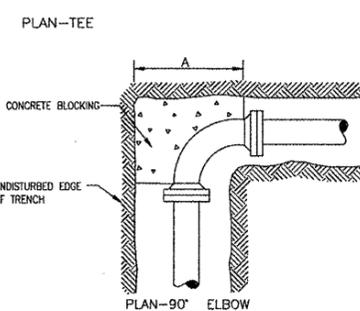
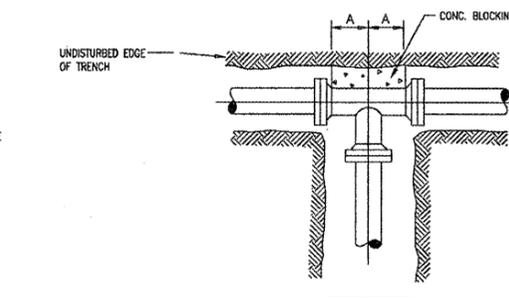
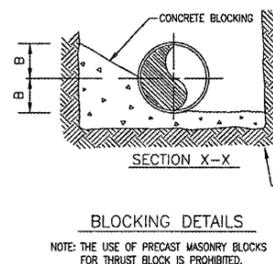
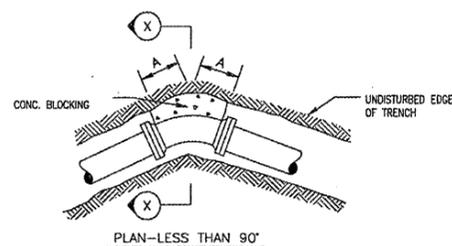
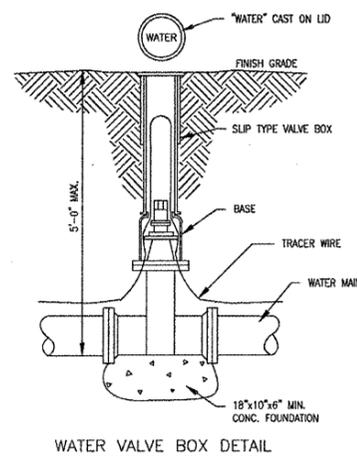
**GREATER KANKAKEE AIRPORT
 KANKAKEE, ILLINOIS**

**CONSTRUCT SOUTHEAST QUADRANT FIRE PROTECTION
 AQUA ILLINOIS NOTES AND DETAILS
 SHEET 1**

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DATE:	01/26/07
JOB No:	06075-02
IL PROJECT:	IKK-3661
A.I.P. PROJECT:	3-17-0057-B13
SHEET	6 OF 7 SHEETS



GENERAL NOTES

- ALL WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, AND AQUA ILLINOIS'S STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF WATER MAIN, IN THE EVENT OF A CONFLICT BETWEEN THE TWO SETS OF SPECIFICATIONS, AQUA ILLINOIS SPECIFICATIONS SHALL RULE.
- CONTRACTOR TO COORDINATE ALL CONNECTIONS TO EXISTING MAINS WITH AQUA ILL. AND CUSTOMERS.
- CONCRETE BLOCKING IS REQUIRED AT ALL APPROPRIATE LOCATIONS.
- PROVIDE #10 COATED SOLID COPPER, PLASTIC COATED, TRACER WIRE.
- ALL DIP WATER MAIN TO BE WRAPPED IN POLYETHYLENE TUBES. SEE SPEC. SECTION 02610.
- MAX. TRENCH DEPTH FOR WATER MAINS SHALL BE 5'-0". Unless otherwise noted or required. Main may have 3'-6" of cover to allow installation above sewers at crossings ONLY.
- THE CONTRACTOR SHALL CONTACT ALL LOCAL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION FOR FIELD LOCATION OF UTILITIES. Call J.U.L.I.E., 1-800-892-0123, before digging.
- THE CONTRACTOR SHALL VERIFY TO HIS OWN SATISFACTION, THE LOCATION OF ALL UTILITIES, STRUCTURES, SURVEY MARKERS, SIGNS, AND OTHER OBJECTS, AND SHALL INCLUDE IN HIS BID THE COST OF PROTECTION, REMOVAL, REPLACEMENT OR RELOCATION OF THE SAME. ALL EXISTING OBJECTS SHALL BE REPLACED IN THEIR ORIGINAL LOCATION UNLESS OTHERWISE INDICATED ON THE DRAWINGS. THE DRAWINGS MAY INDICATE THE APPROXIMATE LOCATION OF SOME UNDERGROUND UTILITIES. THE CONTRACTOR MAY EXPECT TO FIND SUCH UTILITIES WITHIN APPROXIMATELY FIVE FEET OF THE LOCATIONS INDICATED ON THE DRAWINGS, BUT HE SHALL IN EVERY CASE LOCATE AND UNCOVER SUCH UTILITIES BEFORE EXCAVATION COMMENCES WITHIN 50 FEET OF THE INDICATED LOCATION.
- THE CONTRACTOR SHALL SUPPLY OWNER WITH "AS BUILT" DRAWINGS SHOWING ANY CHANGES OR ADDITIONS TO PROJECT DRAWINGS.
- Reference, all concrete drives to be patched with 6" of PCC, min. and all sidewalks replaced with 5" of PCC, min., with trench backfill and CA-6 base. Traffic control shall be in accordance with IDOT and/or City rules & regulations.
- Consult Engineer for approval with any conflicts between drawings, notes, spec's, city and state requirements.
- Connections to existing main assisted by Aqua ILL., to be coordinated
- Consult Engineer for approval of FLUSHING PLAN

REVISIONS

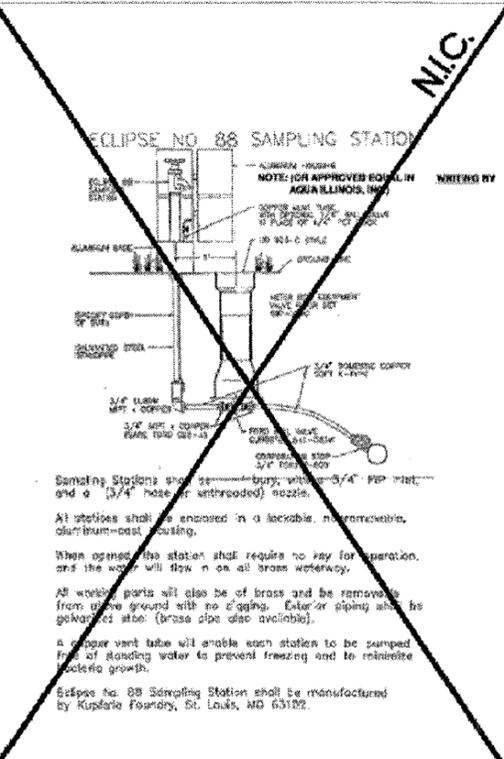
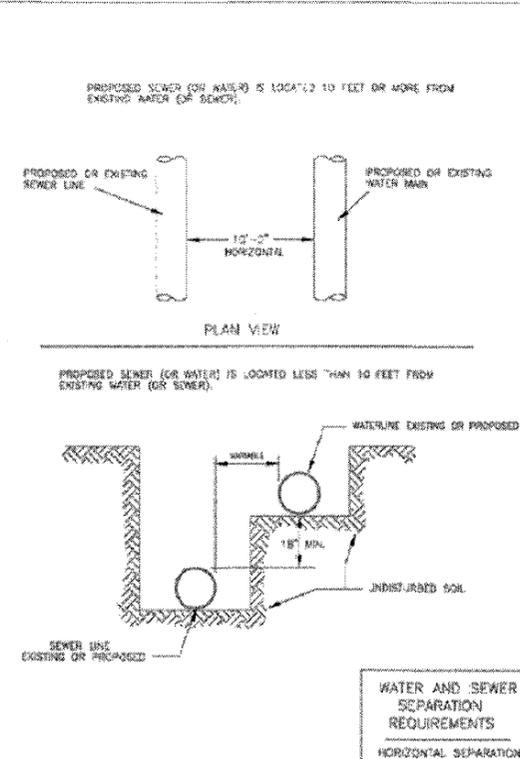
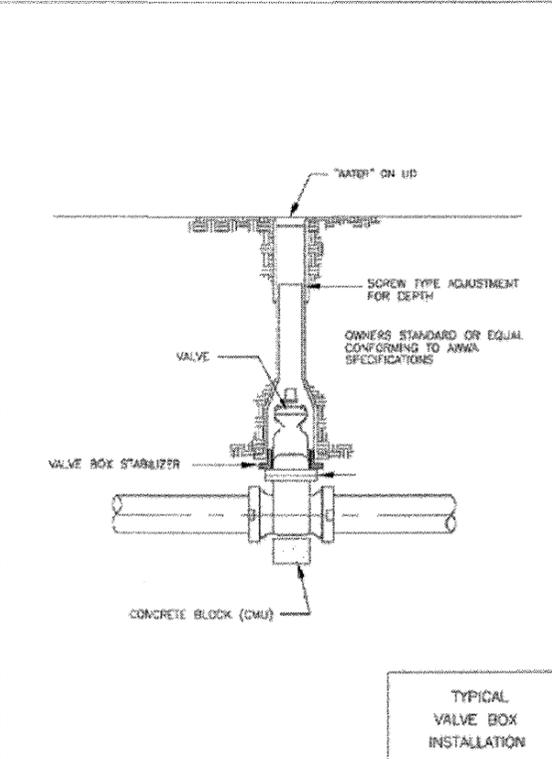
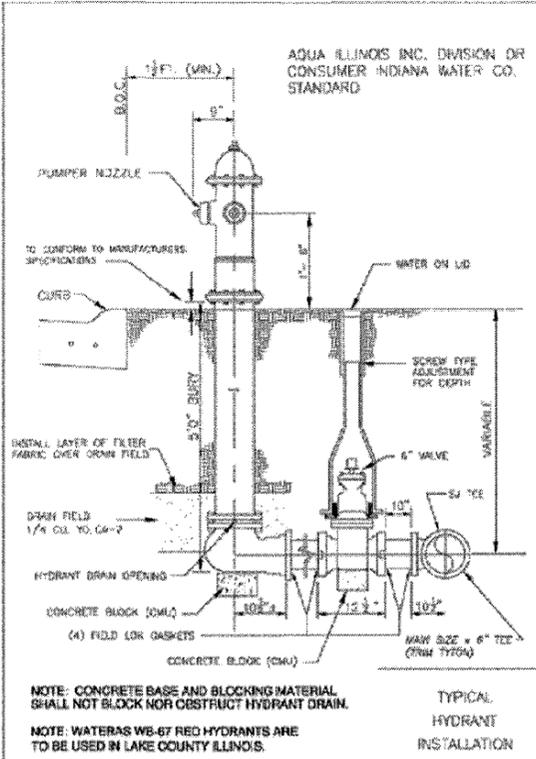
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2'
 AT FULL SCALE (34X22).

GREATER KANKAKEE AIRPORT
 KANKAKEE, ILLINOIS
 CONSTRUCT SOUTHEAST QUADRANT FIRE PROTECTION
 AQUA ILLINOIS NOTES AND DETAILS
 SHEET 2

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CHECKED BY:	CAL
APPROVED BY:	CAL
DATE:	01/26/07
JOB No:	06075-02
IL PROJECT: IKK-3661 A.I.P. PROJECT: 3-17-0057-B13	
SHEET	7 OF 7 SHEETS



PIPE DIA. (IN)	NUMBER OF RESTRAINED JOINTS (EITHER SIDE OF FITTING)						VERT. UP	VERT. DOWN	TEE BRANCH
	DEADEND	60° BENDS	45° BENDS	22.5° BENDS	11.25° BENDS	90° BENDS			
8"	6	3	1	1	1	1	2	5	
12"	9	5	2	1	1	2	4	8	
16"	12	7	3	1	1	3	5	10	

