

43+2=45

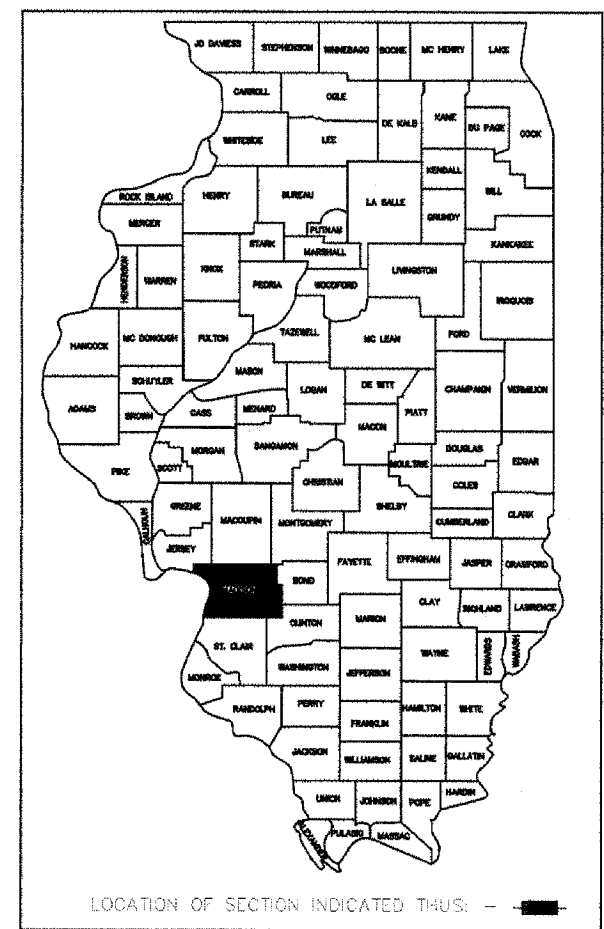
F.A. R.T.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	1

FEDERAL AID PROJECT

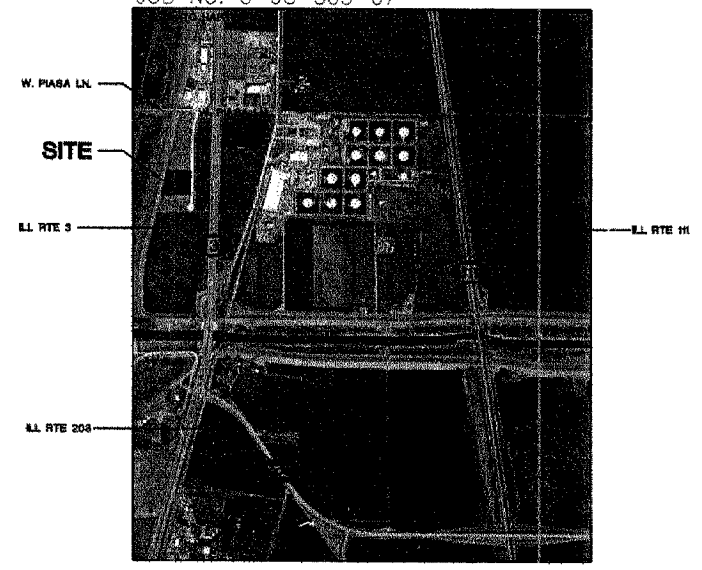
- STANDARDS**
- 280001-03
 - 606001-03
 - 424001-04
 - 701501-03
 - 702001-06
 - 701001-01
 - 701301-02

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
LEWIS & CLARK TOWERS
PHASE 2A
WELCOME CENTER

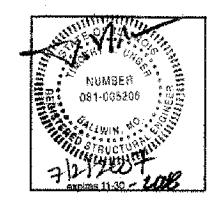
ENHANCEMENT FUNDS:
SECTION 06-00026-01-MS
PROJECT NO. TE-D008(113)
VILLAGE OF HARTFORD
 JOB NO. C-98-303-07



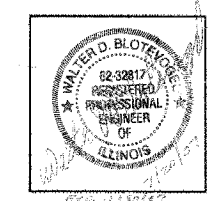
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CIVIL DRAWINGS	
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AC1-07	WATER LINE & SANITARY SEWER PLAN AND PROFILE
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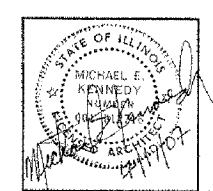
LOCATION MAP
NO SCALE



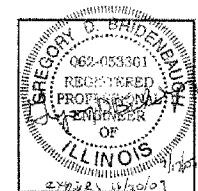
STRUCTURAL ENGINEER
S.S.E. INC.
 138 W. CLINTON PLACE
 ST. LOUIS, MO 63122
 PH. (314) 965-2233
 FAX (314) 965-8269



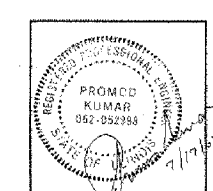
CIVIL ENGINEER / LAND SURVEY
BLOTEVOGEL ASSOC. INC.
 2 GINGER CREEK PARKWAY
 GLEN CARBON, IL 62034
 PH. (618) 656-4166
 FAX (618) 656-7127



ARCHITECT
KAI
 211 NORTH BROADWAY, SUITE 1900
 ST. LOUIS, MO 63102
 PH. (314) 241-8188
 FAX (314) 241-0125



ELECTRICAL DESIGN
KAI
 211 NORTH BROADWAY, SUITE 1900
 ST. LOUIS, MO 63102
 PH. (314) 241-8188
 FAX (314) 241-0125



MECHANICAL DESIGN & PLUMBING
KAI
 211 NORTH BROADWAY, SUITE 1900
 ST. LOUIS, MO 63102
 PH. (314) 241-8188
 FAX (314) 241-0125

UTILITIES

AMEREN UE (ELEC.)
 PO BOX 66529
 ST. LOUIS, MO 63166
 1-800-552-7583

CHARTER COMMUNICATIONS (CABLE)
 1048 STATE ST.
 EAST ST. LOUIS, IL 62201
 1-800-211-4450

AMEREN IP (GAS)
 PO BOX 2543
 DECATUR, IL 62525
 1-800-755-5000

SBC (PHONE)
 721 MISSOURI AVE
 EAST ST. LOUIS, IL 62201
 618-875-9856

CONTRACT NO. 97301

JURISDICTION OF WOOD RIVER DRAINAGE & LEVEE DISTRICT
 543 W. MADISON AVE.
 WOOD RIVER, IL 62095
 (618) 254-7457 (618) 779-9176

GEOTECHNICAL ENGINEER
SCI ENGINEERING INC.
 15 EXECUTIVE DRIVE, SUITE 4
 FAIRVIEW HEIGHTS, IL 62208
 PH. (618) 624-6969 FAX (314) 231-6733 FAX (618) 624-7099

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED DATE 7/19 2007
William J. Moore Jr.
 WILLIAM MOORE JR. BOARD PRESIDENT

PASSED July 25 2007
[Signature]
 DISTRICT #8 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW July 25 2007
[Signature]
 DEPUTY DIRECTOR OF HIGHWAYS, REGION #5 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	45	2

SUMMARY OF QUANTITIES

CMD# PAY ITEM	DESCRIPTION	UNIT	QUANT.	CONST. TYPE CODE Y. 021	VILLAGE 20%	VILLAGE 100%
XX000810	CONCRETE PAVERS	SO FT	258		206.4	51.6
XX003526	DUCTILE IRON WATER MAIN FITTINGS, 8" X 6" REDUCER	EACH	1		0.8	0.2
XX003543	DUCTILE IRON WATER MAIN FITTINGS, 8" 45 DEGREE BEND	EACH	1		0.8	0.2
XX003949	CONSTRUCTION STAKING	L SUM	1		0.8	0.2
X0322987	CONSTRUCTION ACCESS	EACH	1		0.8	0.2
X5640175	FIRE HYDRANT COMPLETE	EACH	1		0.8	0.2
20200100	EARTH EXCAVATION	CU YD	6950	5.560.0	1.390.0	
25000910	SEEDING, CLASS 1 (MODIFIED)	ACRE	1.2		1.0	0.2
25200100	SODDING	SO YD	376		300.8	75.2
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	240		192.0	48.0
28000400	PERIMETER EROSION BARRIER	FOOT	1065		852.0	213.0
28100707	STONE DUMPED RIPRAP, CLASS A4	SO YD	19		15.2	3.8
28200200	FILTER FABRIC	SO YD	19		15.2	3.8
* 30200650	PROCESSING MODIFIED SOIL, 12"	SO YD	3401	2.720.8	680.2	
* 30201500	LIME	TON	65		52.0	13.0
31100100	SUB-BASE GRANULAR MATERIAL, TYPE A	TON	1382	1.105.6	276.4	
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	590		472.0	118.0
40603085	HOT MIX ASPHALT BINDER COURSE, 1L-19.0, NTO	TON	249		199.2	49.8
40603315	HOT MIX ASPHALT SURFACE COURSE, MIX "C", NTO	TON	249		199.2	49.8
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	66		52.8	13.2
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SO FT	4331	3.464.8	866.2	
42400800	DETECTABLE WARNINGS	SO FT	40		32.0	8.0
60600605	CONCRETE CURB, TYPE B	FOOT	1012		809.6	202.4
60614600	PAVED DITCH SPECIAL	FOOT	147		117.6	29.4
70101700	TRAFFIC CONTROL & PROTECTION	L SUM	1		0.8	0.2
70102620	TRAFFIC CONTROL & PROTECTION STANDARD T01501	L SUM	1		0.8	0.2
72000100	SIGN PANEL - TYPE 1	SO FT	16		12.8	3.2
73000100	WOOD SIGN SUPPORT	FOOT	48		38.4	9.6
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SO FT	84		67.2	16.8
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE, 4"	FOOT	2152	1.721.6	430.4	
XX007056	BUILDING	L SUM	1		0.8	0.2
XX007056	PLAZA DRAINAGE SYSTEM	L SUM	1		0.8	0.2
XX007056	FUSION WELDED PIPE, 8" HIGH DENSITY POLYETHYLENE, SDR-11, 160 PSI	FOOT	633	506.4	126.6	
XX007056	MANHOLES (LEAKAGE TESTING)	EACH	2		1.6	0.4
XX007056	MANHOLES, TYPE A, 4' DIAMETER, WATERPROOF FRAME & BOLTED LID	EACH	2		1.6	0.4
XX007056	OUTFALL STRUCTURE	EACH	1		0.8	0.2
XX007056	REMOVE EXISTING CAP	EACH	1		0.8	0.2
XX007056	REMOVE EXISTING PLUG	EACH	1		0.8	0.2
XX007056	WATER MAIN TRACER WIRE	FOOT	340	272.0	68.0	
XX007056	WATER METER	EA.	1		0.8	0.2
67000100	MOBILIZATION	L SUM	1			

* - SPECIALTY ITEMS

GENERAL NOTES

- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONTRACTOR'S CONVENIENCE. THE EXACT LOCATION MAY DIFFER FROM THAT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITIES TO DETERMINE THE EXACT LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE DONE TO ANY UTILITY DURING EXECUTION OF THIS WORK. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN PREPARING HIS/HER BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCE CAUSED BY SAME.
 - THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE CONSTRUCTION SITE FREE OF DEBRIS AT ALL TIMES AND SHALL KEEP DIRT/MUD OFF ALL PUBLIC STREETS ADJACENT TO THE CONSTRUCTION SITE.
 - ALL DISTURBED AREAS, FOR WHATEVER REASON, SHALL BE SEEDING ACCORDING TO THE SPECIAL PROVISIONS.
 - CONSTRUCTION CREWS, EQUIPMENT, TRUCKS, TRAILERS, BACKHOES, ETC. SHALL NOT BE PERMITTED TO PARK WITHIN THE PUBLIC RIGHT-OF-WAY ALONG CONFLUENCE TOWER DRIVE DURING THE CONSTRUCTION OF THIS PROJECT.
 - ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER. ALL ROADSIDE OBJECTS (UTILITY POLES, FIRE HYDRANTS, SIGNS, ETC.) SHALL BE RELOCATED TO PROVIDE A MINIMUM OF 2 FEET CLEARANCE, MEASURED FROM THE PROPOSED CONSTRUCTION TO THE NEAR EDGE OF THE OBJECT.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
 - THE CONTRACTOR SHALL CONFINE ALL OPERATIONS WITHIN THE CONSTRUCTION LIMITS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
 - FOR WORK PERFORMED WITHIN THE RIGHT-OF-WAY OF CONFLUENCE TOWER DRIVE, TRAFFIC CONTROL SHALL BE ACCORDING TO I.D.O.T. HIGHWAY STANDARDS 702001 AND 701301.
 - WORK ON IMMEDIATELY ADJACENT PROJECTS MAY BE OCCURRING SIMULTANEOUSLY WITH THIS PROJECT. CONTRACTOR SHALL COORDINATE THIS WORK WITH SAID ADJACENT PROJECTS. THIS COORDINATION SHALL BE PERFORMED AT NO ADDITIONAL COMPENSATION.
- ADJACENT PROJECTS SUBJECT TO THIS REQUIREMENT IS SECTION 03-00026-00-PK, WITH THE VILLAGE OF HARTFORD AS THE LEAD AGENCY.
10. ELEVATION CONVERSION FROM CIVIL DRAWINGS TO ARCHITECTURAL, STRUCTURAL, AND OTHER DRAWINGS IS AS FOLLOWS:
EL. 435.50' = EL. 100'-0"

"NO COMMITMENTS"

211 North Broadway
Suite 1800
St. Louis, Missouri 63102
Tel: 314.541.0025
Fax: 314.541.0025



PHASE 2
LEWIS AND CLARK
MEMORIAL TOWER
HARTFORD, ILLINOIS 62048

SHEET TITLE:
GENERAL NOTES
SUMMARY OF QUANTITIES

REV. NO.	DATE	REMARKS

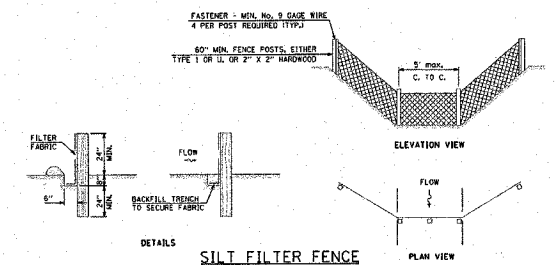
KENNEDY PROJECT NO
10-02748

ISSUE DATE

SHEET NO.

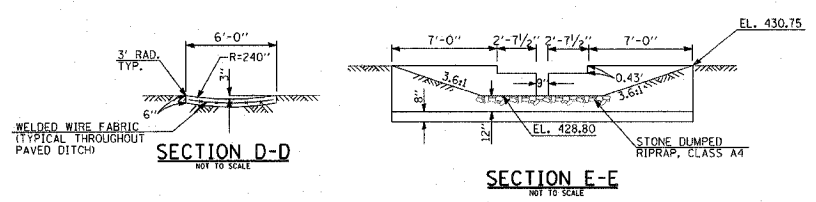
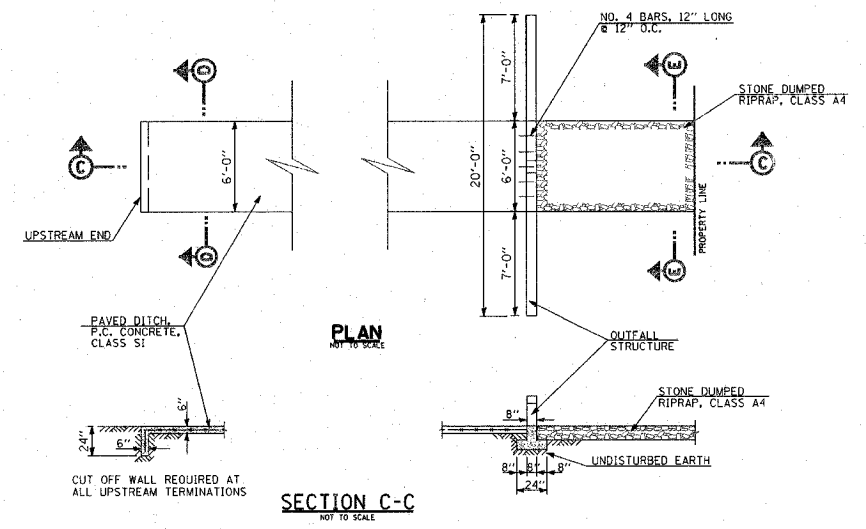
AC1-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	45	3

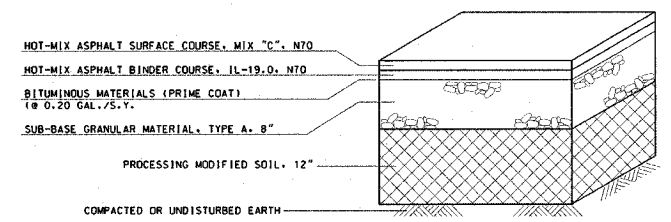


- SILT FILTER FENCE**
- ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE, WITH THE ENDS EXTENDING UPSLOPE. THE AREA BELOW THE FENCE MUST BE UNDISTURBED OR STABILIZED.
 - WOOD POSTS WILL BE OF SOUND QUALITY WOOD WITH A MIN. CROSS SECTIONAL AREA OF 3.0 SQ. IN. STEEL POSTS WILL BE STANDARD T AND U SECTIONS WEIGHING NOT LESS THAN 1.0 LBS./L.F. THE MAX. SPACING WILL BE 8 FEET. WHEN WIRE BACKING IS USED, THE MAX. SPACING MAY BE INCREASED TO 10 FEET. THE POSTS SHALL BE DRIVEN A MIN. OF 24" INTO THE GROUND. SPACING MAY NEED TO BE ADJUSTED SO THAT POSTS ARE LOCATED IN LOW AREAS WHERE WATER MAY FOND.
 - WIRE FENCE SHALL BE A MIN. 9 GAUGE TOP AND BOTTOM WIRES WITH A MAX. 6" MESH OPENING, OR AS APPROVED BY THE ENGINEER.
 - THE FILTER FABRIC SHOULD BE FURNISHED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE SILT FENCE NEEDED TO AVOID SPLICES. WHEN SPLICES ARE NECESSARY, THE FABRIC SHOULD BE SPLICED AT A SUPPORT POST WITH A MIN. 6" OVERLAP, FOLDED OVER AND SECURELY FASTENED.
 - THE SILT FENCE SHALL BE ENTRENCHED TO A MIN. DEPTH OF 8", WITH AN ADDITIONAL 6" EXTENDING ALONG THE BOTTOM OF THE TRENCH IN THE UPSLOPE DIRECTION. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FABRIC.
 - THE FILTER FABRIC AND WIRE SUPPORT, IF USED, MUST BE SECURELY FASTENED TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST ONE INCH LONG, TIE WIRES OR HDG RINGS. THE FABRIC SHALL NOT BE STAPLED OR WIRED TO THE WIRE SUPPORT. THE FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
 - INTERMEDIATE WIRE OF MESH SUPPORTS SHALL BE A MIN. OF GAGE NO. 11.
 - OPERATION AND MAINTENANCE OF SILT FENCE
 - SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.
 - SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
 - SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE FENCE STILL IS NECESSARY, THE FABRIC OR THE ENTIRE SYSTEM SHALL BE REPLACED PROMPTLY.
 - SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
 - ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, A SEEDBED PREPARED AND THE SITE VEGETATED.

- THE FOLLOWING EROSION CONTROL MEASURES SHALL BE PROVIDED BY THE CONTRACTOR:
- PERIMETER EROSION BARRIER (SILT FENCE) SHALL BE ERECTED PRIOR TO EXCAVATION AND CLEARING IN THE UPSLOPE AREA.
 - THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE PROPERLY MAINTAINED BY THE CONTRACTOR TO CONTROL SILTATION AT ALL TIMES DURING THE LIFE OF THE CONTRACT.
 - AT ALL TIMES, EROSION CONTROL MEASURES SHALL BE EMPLOYED TO PREVENT SILT FROM LEAVING THE SITE. ALL EROSION CONTROL WORK IS TO BE DONE ACCORDING TO THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS AND THE STORM WATER POLLUTION PREVENTION PLAN.
 - PRIOR TO THE START OF ANY EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL INSURE THAT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A NOTICE OF INTENT (NOI) HAVE BEEN PREPARED, SIGNED AND FILED BY THE OWNER ACCORDING TO THE REQUIREMENTS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IL R TO WHICH AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THIS CONSTRUCTION SITE.
 - ADDITIONAL EROSION PROTECTION DEVICES SHALL BE INSTALLED SHOULD OTHER AREAS OF EROSION IN THE DEVELOPMENT OCCUR, AS DIRECTED BY THE CONSTRUCTION MANAGER.
 - SEEDING SHALL BE APPLIED WITHIN 7 DAYS OF FINAL GRADING IN ALL DISTURBED AREAS.
 - ALL EROSION CONTROL ITEMS SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR AT THE COMPLETION OF THE CONTRACT, OR AS DIRECTED BY THE RESIDENT ENGINEER.



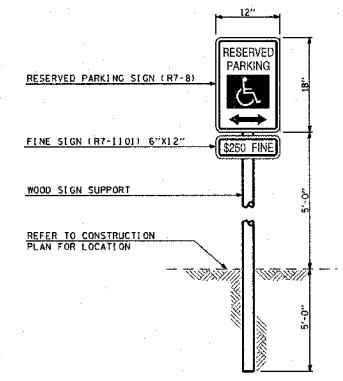
PAVED DITCH & OUTFALL STRUCTURE
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STA. 10+08.50 TO STA. 11+53



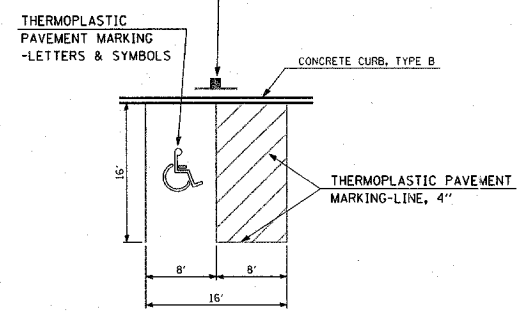
TYPICAL PARKING LOT SECTION
NOT TO SCALE

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SURFACE	BINDER
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	10	15
DESIGN AIR VOIDS	4.0% @ NDES=70	4.0% @ NDES=70
MIX COMPOSITION (GRADATION MIXTURE)		IL 19.0
FRICITION AGG	MIXTURE C	MIXTURE B



RESERVED PARKING SIGN DETAIL
NOT TO SCALE



- STREET AND PAVEMENT CONSTRUCTION NOTES :
- ALL STREET WORK IS TO BE DONE ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007 AND LATEST REVISIONS.
 - ALL CONCRETE PAVEMENT AND DRIVEWAYS SHALL BE POURED SO THAT NO FINISHED PANEL EXCEEDS 15' ALONG ANY EDGE, UNLESS SHOWN OTHERWISE.
 - ALL CONSTRUCTION JOINTS SHALL BE TIED USING #6 BARS, 30" LONG AT 24" O.C..
 - SAWED TRANSVERSE JOINTS (1/8" X 2") SHALL BE CREATED AT 15' INTERVALS. BARS ARE NOT REQUIRED. JOINTS TO BE SEALED WITH HOT POURED JOINT SEALER IN ALL CONCRETE CONSTRUCTION.
 - EMBANKMENT SHALL BE PLACED AS REQUIRED IN SECTION 205 OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007 AND LATEST REVISIONS. CONTRACTOR SHALL SUBMIT TO THE RESIDENT ENGINEER DOCUMENTATION OF COMPACTION TESTS FOR WRITTEN APPROVAL OF SAID COMPACTION PRIOR TO CONSTRUCTION OF ANY PAVEMENT/SIDEWALK.
 - CUT SECTIONS SHALL BE PROOF ROLLED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO CONSTRUCTION OF ANY PAVEMENT/SIDEWALK.

211 North Broadway
St. Louis, Missouri 63102
PH (314) 241-9186
FAX (314) 541-0125



PHASE 2
LEWIS AND CLARK
MEMORIAL TOWER
HARTFORD, ILLINOIS 62048

SHEET TITLE:
DETAILS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
10-02048

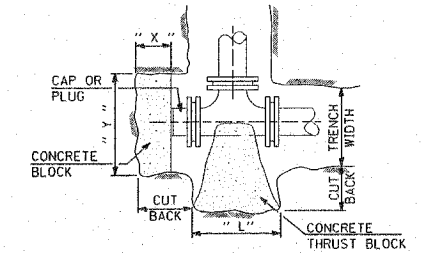
ISSUE DATE

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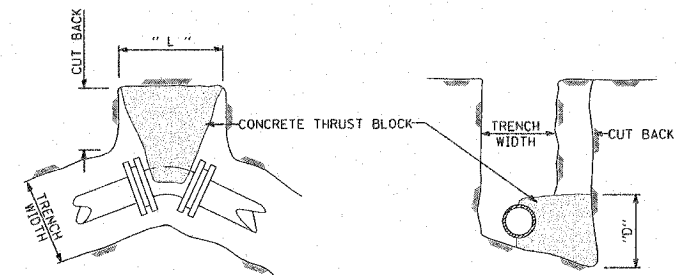
AC1-02

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	45	4

THRUST BLOCKING SCHEDULE						
2.000#/S.F. SOIL 50. FT. OF THRUST BLOCKING AREA REQUIRED						
PIPE SIZE	BENDS				TEES	
	1/4 OR 90°	1/2 OR 45°	1/8 OR 22 1/2°	1/2 OR 11 1/4°	CAP/PLUG	THRUST BLOCK
6"	2.00	1.20	---	---	1.50	1.50
8"	3.60	2.10	1.60	---	2.70	2.70
10"	5.60	3.20	2.60	2.10	4.30	4.30
12"	8.00	4.80	3.70	3.10	6.20	6.20
14"	11.00	7.30	5.00	4.20	8.40	8.40
18"	18.20	12.00	8.40	6.90	13.80	13.80

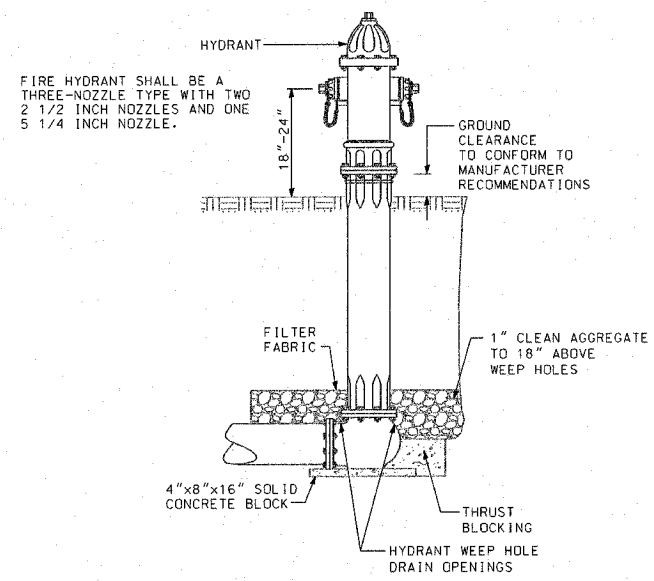


PLAN OF TEES & PLUGS
 Y = SQ. FT. OF THRUST BLOCK AREA
 X = 1/3 x Y OR 8" WHICHEVER IS LARGER

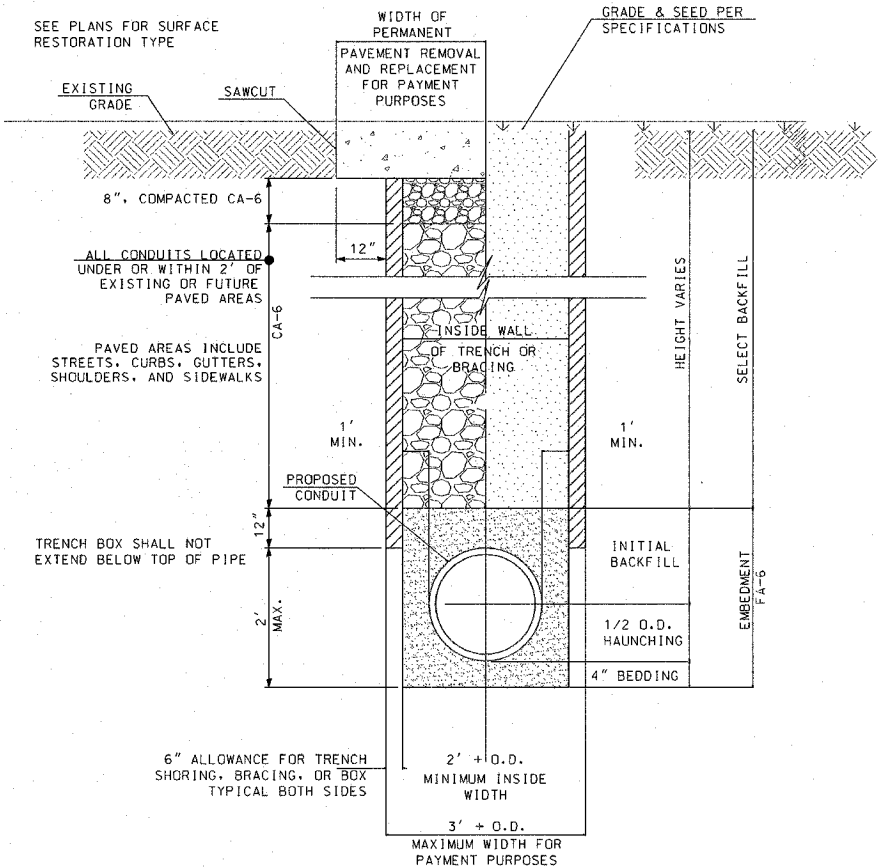


PLAN OF BENDS **SECTION**

NOTE: THRUST BLOCKING AREA = L x D

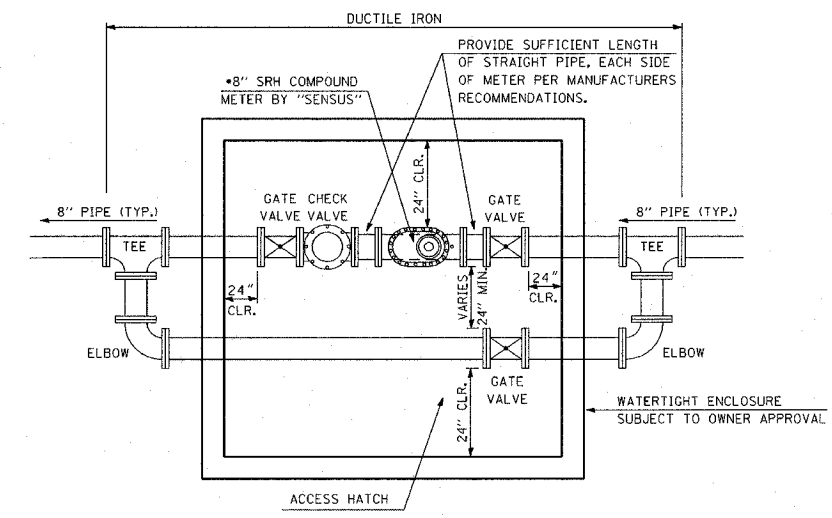


FIRE HYDRANT DETAIL
NOT TO SCALE



TRENCH DETAIL
NOT TO SCALE

FOR OPEN-CUT INSTALLATION (IF NECESSARY)



DETAIL OF WATER METER
NOT TO SCALE

- METER READING METHOD SHALL BE COORDINATED WITH VILLAGE OF HARTFORD
- ALL PIPE & FITTINGS SHALL BE DUCTILE IRON. (FLANGED IN METER PIT, OTHERS MECHANICAL, AS SHOWN)
- PROVIDE FULL OPENING, ALUMINUM LOCKABLE ACCESS HATCH, SIZED TO PROVIDE FULL LIFTING ACCESS TO ALL INTERNAL COMPONENTS.

POTABLE WATER SYSTEM NOTES AND SPECIFICATIONS (UNLESS OTHERWISE NOTED ELSEWHERE)

1. WATER MAIN PIPE SHALL BE HDPE, SDR-11, 160 PSI MEETING THE REQUIREMENTS OF ANWA C906, PE3408, WITH JOINTS MEETING THE REQUIREMENTS OF ASTM D2657. (OR EQUIVALENT MATERIALS AND METHODS IN COMPLIANCE WITH THE APPLICABLE ASTM STANDARDS)
2. WATER MAIN PIPE SHALL HAVE A MINIMUM COVER OF 42" FROM THE FINISHED GRADE TO THE TOP OF PIPE.
3. GATE VALVES SHALL BE CONSTRUCTED OF DUCTILE IRON WITH MECHANICAL JOINT OUTLETS AND A RESILIENT SEAT WEDGE SHUT OFF DESIGN.
4. VALVE BOX AND COVER SHALL BE CONSTRUCTED OF CAST IRON. THE VALVE BOX LID SHALL BE STAMPED "WATER".
5. FIRE HYDRANTS SHALL BE MUELLER SUPER CENTURION 200/MODEL A-423 OR EQUIVALENT WITH 5 1/4" MAIN VALVE OPENING, 4 FOOT BURY, 3 WAY OUTLET DESIGN WITH A 6" MECHANICAL JOINT SHOE OUTLET. WITH A RETAINER GLAND ON THE MECHANICAL JOINT OUTLET.
6. ALL FITTINGS (BENDS, TEES, CROSSES, ETC.) SHALL BE CONSTRUCTED OF DUCTILE IRON WITH MECHANICAL JOINT OUTLETS. CONVENTIONAL RETAINING GLANDS ARE ACCEPTED.
7. TRACER WIRE SHALL BE NO. 12 GAUGE RUBBER COATED INSULATED SOLID COPPER WIRE WITH A THREE (3) FOOT LONG COIL AT EACH END.
8. CROSSINGS OF WATER MAINS SHALL BE CONSTRUCTED ACCORDING TO SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.
9. THRUST BLOCKING SHALL BE CONSTRUCTED ACCORDING TO SECTION 41-2.09 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.
10. CHLORINE SHALL BE USED FOR DISINFECTION ACCORDING TO SECTION 41-2.14B OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.
11. HYDROSTATIC TESTING OF ALL NEW WATER MAINS SHALL BE PERFORMED ACCORDING TO SECTION 41-2.13 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL MATERIALS AND MANPOWER NECESSARY FOR TESTING. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF HARTFORD PUBLIC WORKS DEPARTMENT WHEN THE TESTING TAKES PLACE SO THAT A VILLAGE REPRESENTATIVE CAN BE PRESENT.
12. BACTERIOLOGICAL WATER SAMPLING OF ALL NEW WATER MAINS SHALL BE PERFORMED BY THE CONTRACTOR IN COOPERATION WITH THE HARTFORD PUBLIC WORKS DEPARTMENT.
13. THE HARTFORD PUBLIC WORKS DEPARTMENT SHALL BE RESPONSIBLE FOR TURNING ON THE NEW WATER MAIN EXTENSION AND IT SHALL NOT BE CONSIDERED COMPLETE UNTIL ACCEPTED IN WRITING BY THE VILLAGE OF HARTFORD.

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 KENNEDY
 ENGINEERS
 ARCHITECTS



**PHASE 2 AND CLARK
 LEWIS AND CLARK
 MEMORIAL TOWER**
 HARTFORD, ILLINOIS 62048

SHEET TITLE:
WATER MAIN DETAILS

REV. NO.	DATE	REMARKS

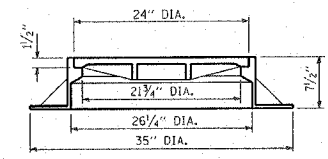
KENNEDY PROJECT NO.
10-02048

ISSUE DATE

SHEET NO.

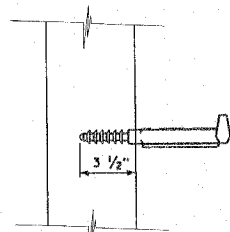
AC1-03

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	45	5



WATERPROOF FRAME AND BOLTED LID

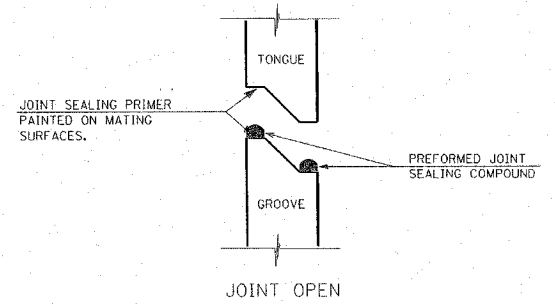
ALL MANHOLE FRAMES AND LIDS SHALL BE NEENAH TYPE R-1916D, OR EQUIVALENT. THE MANHOLE LID SHALL HAVE A CONCEALED PICKHOLE LESS THAN 1" IN DIA. AND SHALL HAVE CAST IN THE CENTER THE WORD "SANITARY". MASTIC SEALANT SHALL BE APPLIED BETWEEN THE CONCRETE AND FLANGE OF THE FRAME BEFORE THE LID BOLTS ARE TIGHTENED.



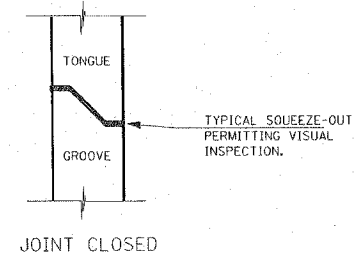
MANHOLE STEP, PLASTIC
NOT TO SCALE

STEPS SHALL BE MADE OF A 3/8" REINFORCING ROD ENCAPSULATED IN A COPOLYMER POLYPROPYLENE PLASTIC AND CONFORMING TO D.S.H.A. REQUIREMENTS.

STEPS SHALL BE 12" WIDE WITH 10" LEGS AND 12" O.C. VERTICAL.

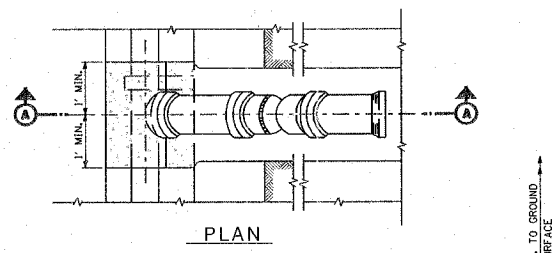


JOINT OPEN

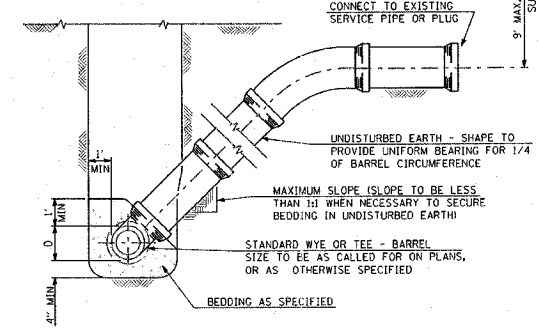


JOINT CLOSED

WATER TIGHT JOINT DETAIL
NOT TO SCALE

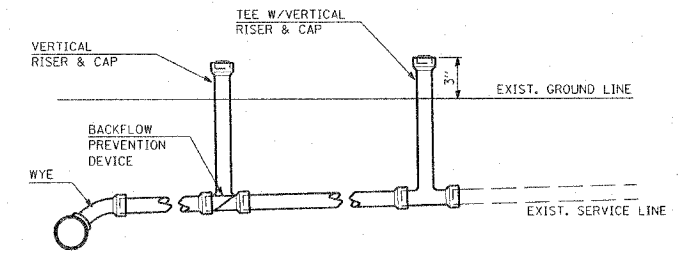


PLAN

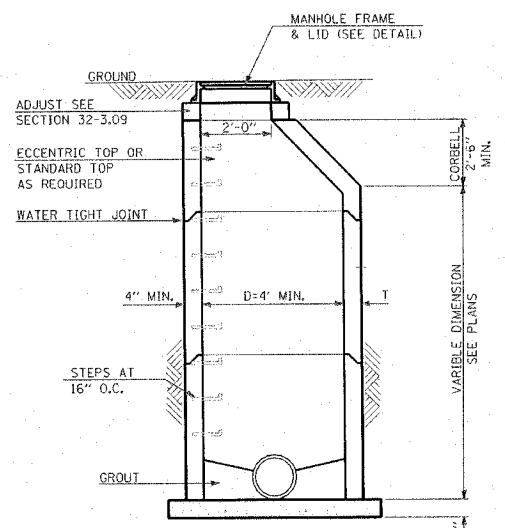


SECTION A-A

TYPICAL RISER FOR SERVICE LATERAL
NOT TO SCALE



TYPICAL CLEAN OUT DETAIL



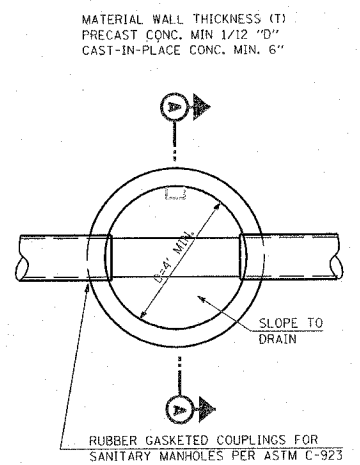
SECTION A-A

BOTTOM SLAB: 3500 PSI CONCRETE OR PRECAST REINFORCED CONCRETE SLAB ON 6" SAND CUSHION BOTTOM SLAB, MAY BE PRECAST MONOLITHIC WITH MANHOLE WALL SECTION.

IF AREA UNDER THE MANHOLE IS DISTURBED DURING CONSTRUCTION, THE BACKFILL SHALL BE THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER.

MANHOLE, TYPE A
NOT TO SCALE

SEPARATE SANITARY SEWER MANHOLES SUBJECT TO SATURATED SOIL CONDITIONS OR SURFACE SUBMERGENCE SHALL BE EQUIPPED WITH CHIMNEY SEALS AND WATER TIGHT MANHOLE COVERS.



SECTIONAL PLAN

STEPS REQUIRED, UNLESS DELETED BY SPECIAL PROVISIONS.

SANITARY SEWER SYSTEM NOTES AND SPECIFICATIONS
(UNLESS NOTED OTHERWISE ELSEWHERE)

- ALL SANITARY SEWER WORK SHALL BE COMPLETED ACCORDING TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION, IN ILLINOIS, ADOPTED MAY, 1996, AND LATEST REVISIONS.
- SANITARY SEWER PIPE SHALL BE AS SHOWN ON THE CONSTRUCTION PLANS AND AS DESCRIBED IN THE SPECIAL PROVISIONS
- SEWER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN OR SERVICE CONNECTION. THE SEWER LINE SHALL BE SEPARATED FROM A WATER MAIN SO THAT ITS CROWN IS A MINIMUM OF 18 INCHES BELOW THE INVERT OF THE WATER MAIN OR SERVICE EXCEPT AS PROVIDED IN THESE PLANS OR IN THE SPECIAL PROVISIONS.
- ALL MANHOLES SHALL BE TYPE "A" IN DESIGN AND 4' MIN. IN DIAMETER. EQUIPPED WITH A-LOCK RUBBER GASKETS. RISERS AND SLABS SHALL BE ACCORDING TO ASTM C478. LIFTING HOLE SHALL BE PROVIDED IN THE BASES AND RISERS. LIFTING HOOKS SHALL BE PROVIDED IN FLAT SLABS. MANHOLE STEPS SHALL BE CONSTRUCTED OF COPOLYMER POLYPROPYLENE PLASTIC.
- MANHOLES (LEAKAGE TESTING)-PRIOR TO PLACING THE COMPLETED SANITARY SYSTEM IN SERVICE, EACH MANHOLE SHALL BE TESTED FOR LEAKAGE ACCORDING TO ASTM C1244-02. FAILING MANHOLES SHALL BE REPAIRED AND RETESTED AS NECESSARY TO ACHIEVE AN ACCEPTABLE RESULT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE REQUIRED SLOPE ON ALL SANITARY SEWER PIPE AND THE REQUIRED ELEVATIONS OF ALL MANHOLES. MINIMUM SLOPE FOR ALL SANITARY SEWER SERVICE PIPE SHALL BE 1/8" PER FOOT.
- CONTRACTOR SHALL PROVIDE 48 HOUR NOTICE OF TESTING FOR OBSERVATION BY VILLAGE OF HARTFORD PUBLIC WORKS DEPARTMENT PERSONNEL.
- THE END OF EACH SERVICE LATERAL SHALL BE MARKED WITH A TREATED 2" BY 4" STAKE LEFT AT LEAST 3 FEET ABOVE THE FINISHED GRADE.
- ALL DISTURBED AREAS, FOR WHATEVER REASON, SHALL BE GRADED TO AS NEAR ITS ORIGINAL STATE AND SEEDED ACCORDING TO THE SPECIAL PROVISIONS.
- SEE TRENCH DETAIL, SHEET AC1-03 FOR SANITARY SEWER INSTALLATION-OPEN CUT INSTALLATION (IF NECESSARY).

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Fax: (314) 541-0125

KENNEDY
CONSULTANTS INC.



PHASE 2 LEWIS AND CLARK MEMORIAL TOWER
HARTFORD, ILLINOIS 62048

SANITARY SEWER DETAILS

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO 10-02048

ISSUE DATE

SHEET NO. **AC1-04**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	45	6

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KENNEDY
 ASSOCIATES, INC.



**PHASE 2
 LEWIS AND CLARK
 MEMORIAL TOWER**
 HARTFORD, ILLINOIS 62048

SHEET TITLE:
CONSTRUCTION PLAN

REV. NO.	DATE	REMARKS

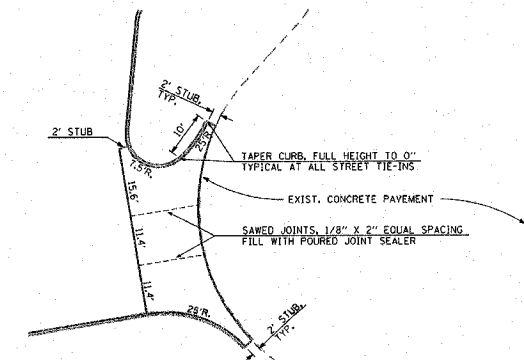
KENNEDY PROJECT NO
 10-02048

ISSUE DATE

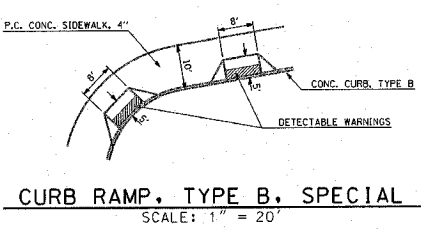
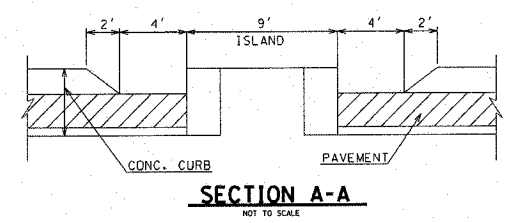
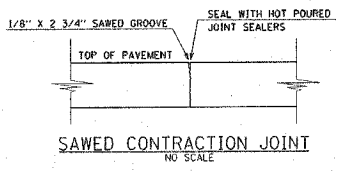
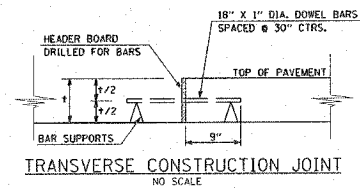
SHEET NO.

AC1-05

T.B.M. #1 - IRON PIN 365.1' NORTH OF CENTER OF CUL-DE-SAC AND 21.2' WEST OF CENTER LINE. ELEV. 437.18



ENTRANCE DETAIL
 SCALE: 1" = 20'



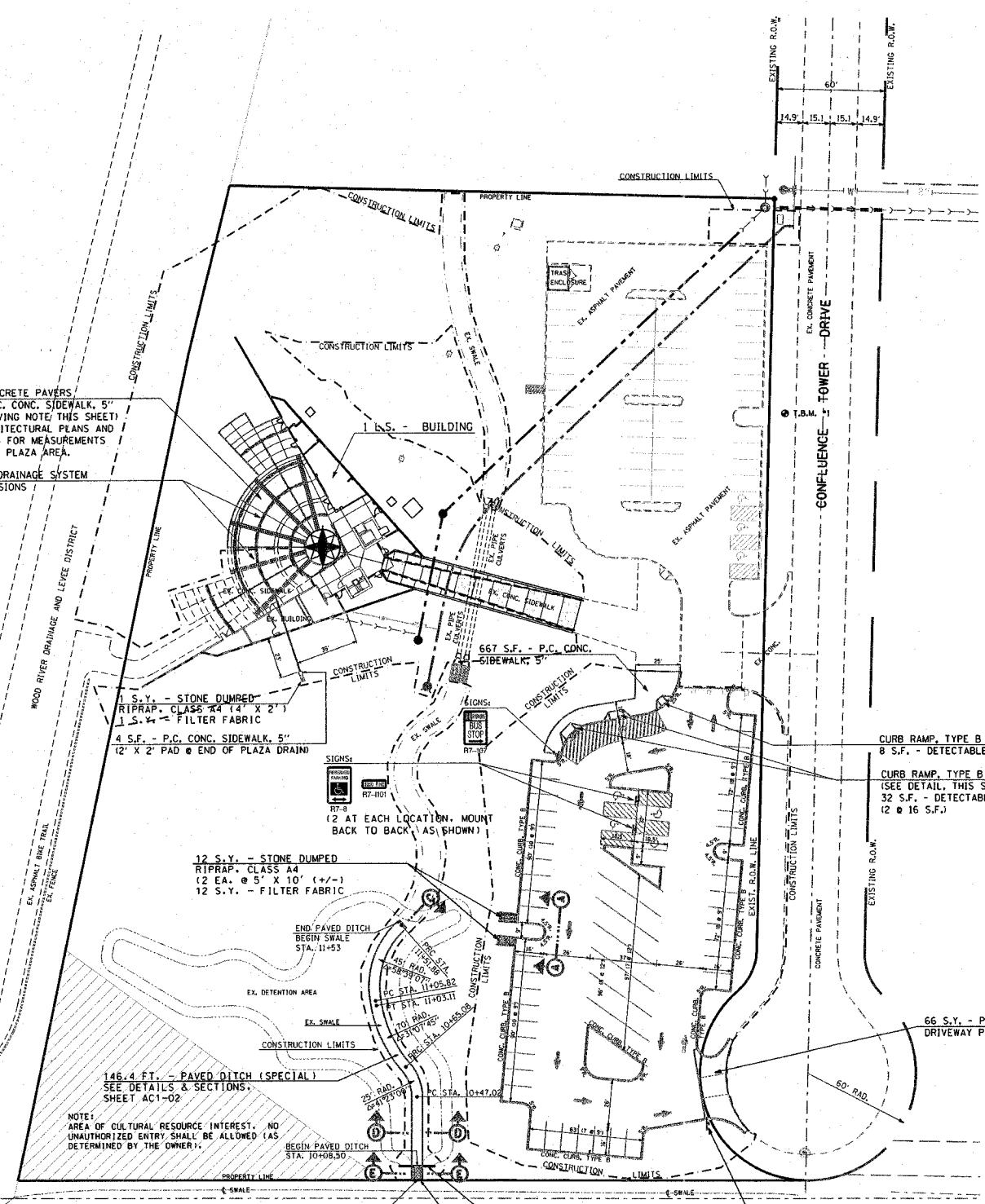
258 S.F. - CONCRETE PAVERS
 3664 S.F. - P.C. CONC. SIDEWALK, 5"
 (SEE PLAZA PAVING NOTE, THIS SHEET)
 REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR MEASUREMENTS AND SLOPES OF PLAZA AREA.
 1 L. SUM - PLAZA DRAINAGE SYSTEM
 SEE SPECIAL PROVISIONS

12 S.Y. - STONE DUMPED
 RIPRAP, CLASS A4 (4' X 2')
 1 S.Y. - FILTER FABRIC
 4 S.F. - P.C. CONC. SIDEWALK, 5"
 (2' X 2' PAD @ END OF PLAZA DRAIN)

146.4 FT. - PAVED DITCH (SPECIAL)
 SEE DETAILS & SECTIONS.
 SHEET AC1-02

NOTE:
 AREA OF CULTURAL RESOURCE INTEREST, NO UNAUTHORIZED ENTRY SHALL BE ALLOWED (AS DETERMINED BY THE OWNER).

1 EA. - OUTFALL STRUCTURE
 SEE DETAILS - SHEET AC1-02
 5.2 S.Y. - STONE DUMPED
 RIPRAP, CLASS A4 (6' X 7.8')
 5.2 S.Y. - FILTER FABRIC



GENERAL QUANTITIES:
 (THIS SHEET ONLY - UNLESS OTHERWISE SPECIFICALLY CALLED OUT)
 PAVEMENT - SEE SHEET "AC1-02" FOR DETAIL
 249 TONS - HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70
 249 TONS - HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
 590 GAL. - BITUMINOUS MATERIALS (PRIME COAT)
 1,382 TONS - SUBBASE GRANULAR MATERIAL, TYPE A
 3,401 S.Y. - PROCESSING MODIFIED SOIL, 12"
 65 TONS - LIME
 1,012 FT. - CONCRETE CURB, TYPE B
 2,152 FT. - THERMOPLASTIC PAVEMENT MARKING - LINE 4"
 84 S.F. - THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS

SIGNING SCHEDULE (THIS SHEET ONLY)

SIGN	TYPE	SIZE	LETTERS/BACKGROUND	QUAN.	S.F.	POST
RT-1	STOP	30" x 30"	WHITE ON RED	1	6.25	12'
RT-8	RSRV'D PRK'G	12" x 18"	BLACK ON WHITE	4	6.00	24'
RT-101	FINE	12" x 6"	GREEN ON WHITE	4	2.00	-
RT-107	NO PARKING	18" x 12"	RED ON WHITE	1	1.50	12'
TOTAL				QUAN.	15.75	48'

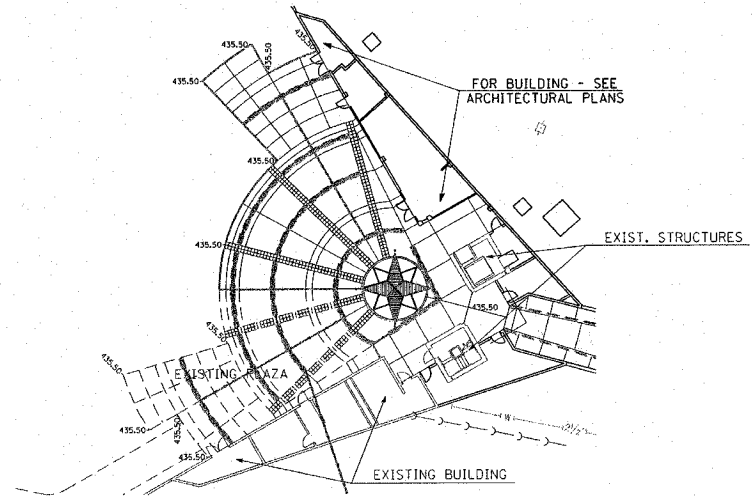
PLAZA PAVING NOTE:
 ELEVATIONS SHOWN IN THE PLAZA AREA ARE FINISHED ELEVATIONS. DUE TO THE RELATIVELY FLAT EXPANSE OF THE PLAZA, ALL REQUIRED ELEVATIONS CANNOT BE SHOWN OR DETAILED. CONTRACTOR SHALL INSURE THAT THE COMPLETED SURFACE SLOPES TO ALL PLAZA TRENCH DRAINS. CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES TO ELIMINATE UNDERGROUND CONFLICTS AND TO INSURE THAT THE FINAL FINISH OF THE SUBGRADE WILL BE CORRECT TO ACCEPT THE VARIOUS SURFACE MATERIALS AND CONTOURS OF THE FINISHED PLAZA AREA. PAVEMENT JOINTING SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS AND AS DIRECTED BY THE ENGINEER. AT ANY CONSTRUCTION JOINT BETWEEN THIS AND FUTURE WORK, PLACE #4 EPOXY COATED REINFORCEMENT BARS 2' - 6" LONG AT 2' - 6" CENTERS AT 2" DEPTH.
 ADDITIONAL WORK CREATED BY THIS COORDINATION SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR P.C. CONCRETE SIDEWALK, 5".

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND, THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS THE EXISTENCE OF WHICH IS AT PRESENT NOT KNOWN. VERIFICATION OF THE LOCATIONS OF UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, WILL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON		7

T.B.M. #1 - IRON PIN 365.1' NORTH OF CENTER OF CUL-DE-SAC AND 21'-2" WEST OF CENTER LINE. ELEV. 437.18



PLAZA DETAIL
1" = 20'

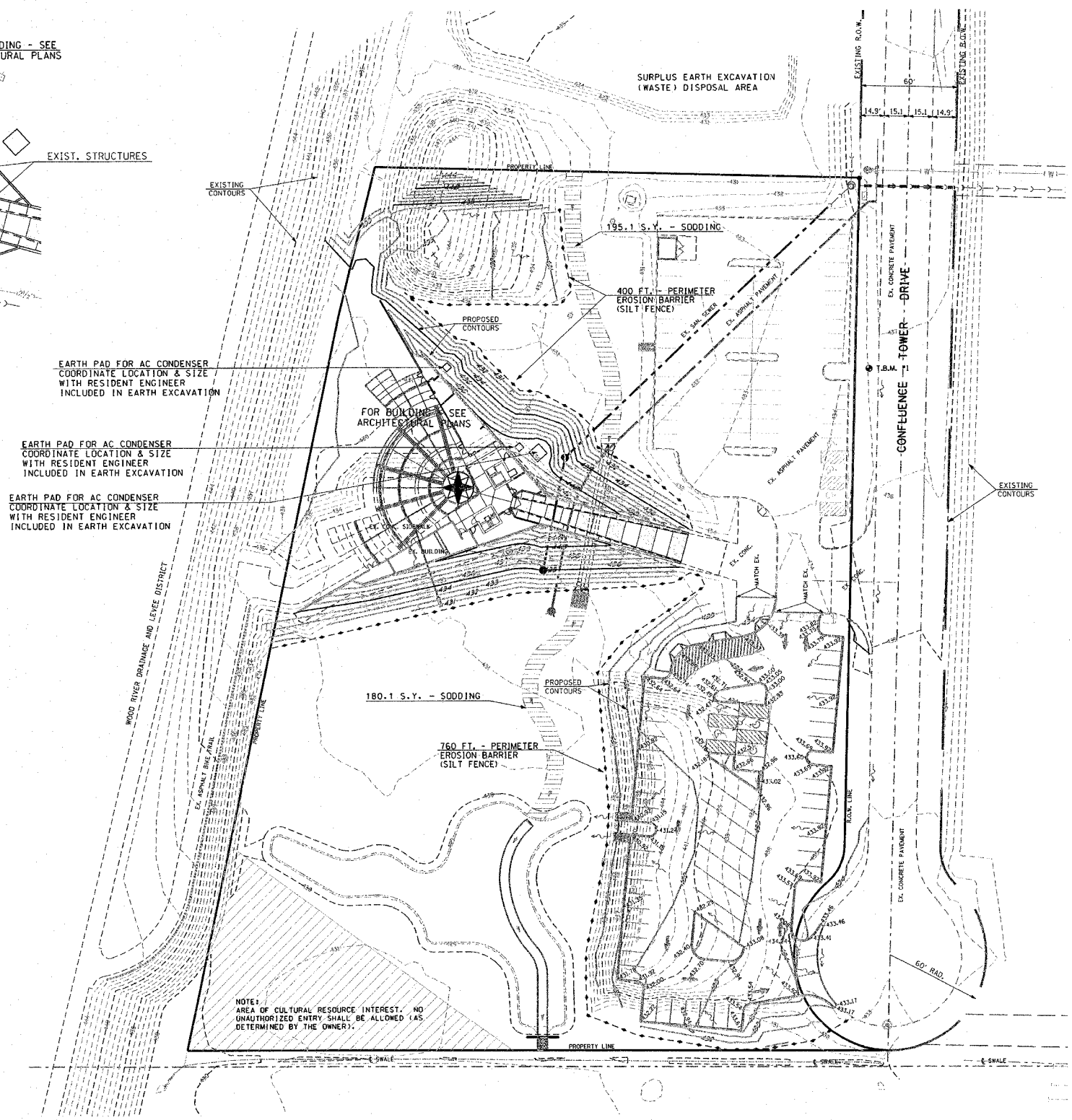
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LEGEND

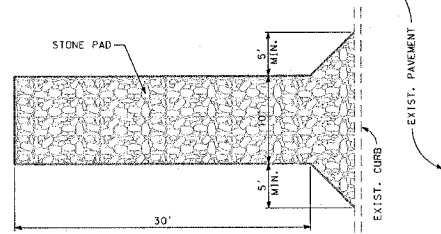
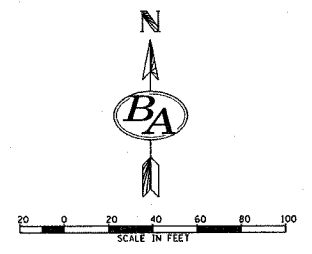
	EXISTING DECIDUOUS TREE
	EXISTING BUSH
	EXISTING EVERGREEN TREE
	EXISTING VEGETATION LINE
	EXISTING FIRE HYDRANT
	EXISTING GAS METER
	EXISTING GAS VALVE
	EXISTING GUY WIRE
	EXISTING POWER POLE
	EXISTING LIGHTED POWER POLE
	EXISTING LIGHT STANDARD
	EXISTING MAILBOX
	EXISTING MANHOLE
	EXISTING GRATE MANHOLE
	EXISTING CABLE PEDESTAL
	EXISTING ELECTRIC PEDESTAL
	EXISTING TELEPHONE PEDESTAL
	EXISTING R.O.M. MARKER
	EXISTING SIGN
	EXISTING WATER METER
	EXISTING WATER VALVE
	EXISTING POST
	EXISTING DITCH FLOWLINE
	EXISTING UNDERGROUND CABLE TV
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UNDERGROUND FORCE MAIN
	EXISTING UNDERGROUND GAS
	EXISTING UNDERGROUND WATER LINE
	EXISTING UNDERGROUND TELEPHONE
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING FENCE LINE
	EXISTING GUARDRAIL
	PROPOSED MANHOLE
	PROPOSED TYPE & INLET
	PROPOSED AREA INLET
	PROPOSED FIRE HYDRANT
	PROPOSED SIGN
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED WATER LINE
	PROPOSED DITCH FLOWLINE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PERIMETER EROSION BARRIER (SILT FENCE)

IN ADDITION TO THE EROSION PROTECTION SHOWN, END OF CONSTRUCTION SHALL BE MAINTAINED TO PREVENT SOIL AND DEBRIS FROM ENTERING THE STORM SEWER SYSTEM.

DITCH CHECK



NOTE: AREA OF CULTURAL RESOURCE INTEREST, NO UNAUTHORIZED ENTRY SHALL BE ALLOWED (AS DETERMINED BY THE OWNER).



- NOTES:
1. STONE SIZE: ASTM D448 SIZE #1 (1 1/2" TO 3 1/2" DIA.)
 2. PAD THICKNESS 12"
 3. MAY REQUIRE PERIODIC TOP DRESSING WITH 2" STONE.
 4. MAINTAIN IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC ROADS.

CONSTRUCTION ACCESS
NOT TO SCALE
ENGINEER TO LOCATE IN FIELD
SEE SPECIAL PROVISIONS

EARTHWORK SCHEDULE

EARTH EXCAVATION	6,950 C.Y.
EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	5,213 C.Y.
EMBANKMENT	5,039 C.Y.
EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	+ 174 C.Y.

THIS REPRESENTS THE APPROXIMATE VOLUME FOR THIS PROJECT.

OWNER HAS MADE PROVISIONS TO DEPOSIT SURPLUS EARTH EXCAVATION (WASTE) ON THE PROPERTY IMMEDIATELY NORTH OF THE PROJECT SITE AS SHOWN ON THIS SHEET. THIS DISPOSAL SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER.

- SITE GRADING NOTES:**
1. ALL SITE WORK IS TO BE DONE ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007 AND LATEST REVISIONS, EXCEPT AS PROVIDED ON THESE PLANS OR IN THE CONTRACT DOCUMENTS.
 2. EACH CONTRACTOR IS RESPONSIBLE FOR KEEPING THE CONSTRUCTION SITE FREE OF DEBRIS AND KEEPING DIRT OFF OF ADJACENT STREETS. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES INTO STORM DRAINS MUST BE REMOVED.
 3. PRIOR TO ANY CONSTRUCTION, A STABILIZED CONSTRUCTION ACCESS SHALL BE CONSTRUCTED BY THE CONTRACTOR ACCORDING TO THE SPECIAL PROVISIONS AND THE DETAIL SHOWN HEREON.
 4. THE MAXIMUM SLOPE SHALL BE 2:1 FOR EARTH SLOPES, UNLESS SHOWN OTHERWISE.
 5. COMPACTION OF THE SOIL UNDER ALL FUTURE CONSTRUCTION SHALL BE 95% STANDARD PROCTOR DENSITY.
 6. EACH FILL OR BACKFILL SOIL LAYER SHALL BE MOISTENED OR AERATED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT BEFORE COMPACTION.
 7. SPOT ELEVATIONS ARE "TOP OF FINISHED PAVEMENT". SEE SHEET AC1-02 FOR PAVEMENT DETAILS.
 8. ACCESSIBLE PARKING SPACES SHALL HAVE A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS.

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PHASE 2
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MEMORIAL TOWER
HARTFORD, ILLINOIS 62048

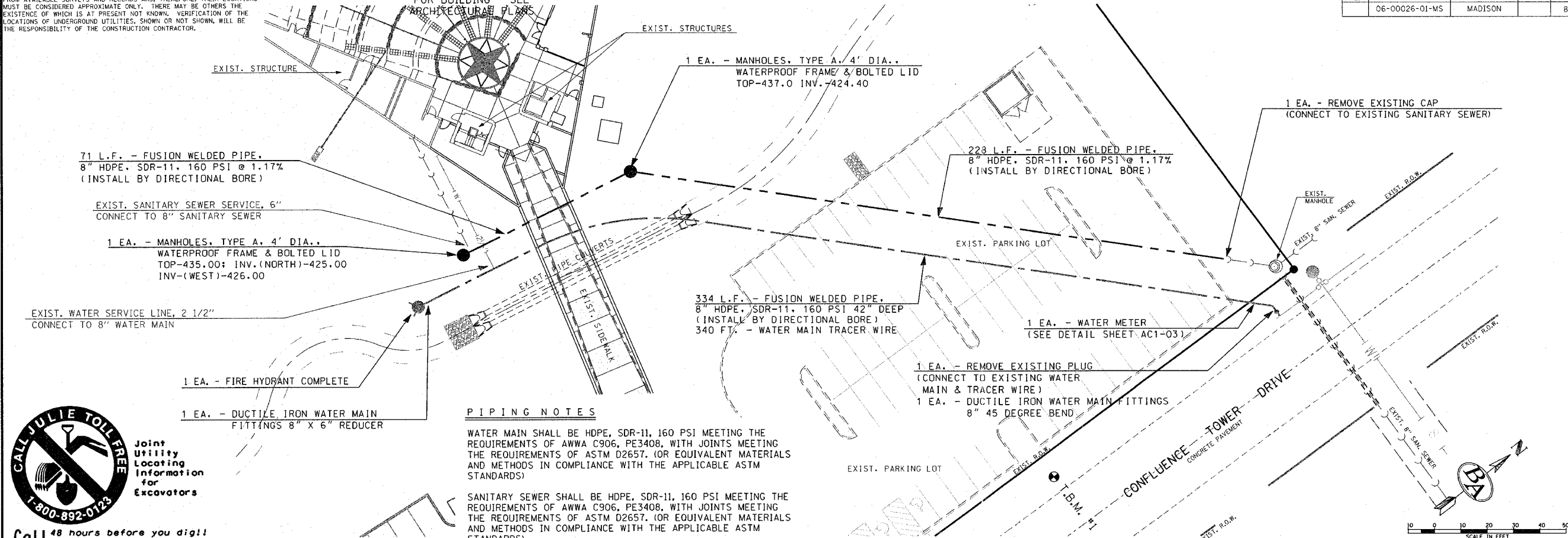
SHEET TITLE:
GRADING PLAN
EROSION CONTROL PLAN

DATE	
REMARKS	
REV. NO.	
KENNEDY PROJECT NO	10-02048
ISSUE DATE	
SHEET NO.	AC1-06

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND, THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS THE EXISTENCE OF WHICH IS AT PRESENT NOT KNOWN. VERIFICATION OF THE LOCATIONS OF UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, WILL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.

FOR BUILDING - SEE ARCHITECTURAL PLANS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-WS	MADISON		8



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PIPING NOTES

WATER MAIN SHALL BE HDPE, SDR-11, 160 PSI MEETING THE REQUIREMENTS OF AWWA C906, PE3408, WITH JOINTS MEETING THE REQUIREMENTS OF ASTM D2657. (OR EQUIVALENT MATERIALS AND METHODS IN COMPLIANCE WITH THE APPLICABLE ASTM STANDARDS)

SANITARY SEWER SHALL BE HDPE, SDR-11, 160 PSI MEETING THE REQUIREMENTS OF AWWA C906, PE3408, WITH JOINTS MEETING THE REQUIREMENTS OF ASTM D2657. (OR EQUIVALENT MATERIALS AND METHODS IN COMPLIANCE WITH THE APPLICABLE ASTM STANDARDS)

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KENNEDY
 AECOM COMPANY



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 MEMORIAL TOWER**
 HARTFORD, ILLINOIS 62048

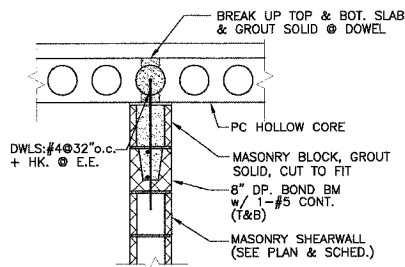
SHEET TITLE:
**WATER LINE &
 SANITARY SEWER
 PLAN AND PROFILE**

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
 10-02048
 ISSUE DATE

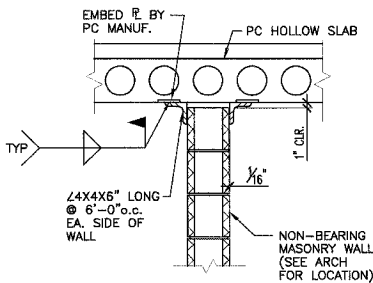
SHEET NO.
AC1-07

Profile Elevation (ft.)	Stationing / Description	Profile Elevation (ft.)
450		450
445	FUSION WELDED PIPE, 8" HDPE, SDR-11, 160 PSI (INSTALL BY DIRECTIONAL BORE)	445
440		440
435	EXIST. PIPE CULVERTS	435
430		430
425	FUSION WELDED PIPE, 8" HDPE, SDR-11, 160 PSI 42" DEEP (INSTALL BY DIRECTIONAL BORE)	425
420	MANHOLES, TYPE A, 4' DIA., TYPE I FRAME, CLOSED LID (MARKED "SANITARY") TOP-435.00; INV.-425.00	420
	MANHOLES, TYPE A, 4' DIA., TYPE I FRAME, CLOSED LID (MARKED "SANITARY") TOP-437.00 INV.-424.40	415



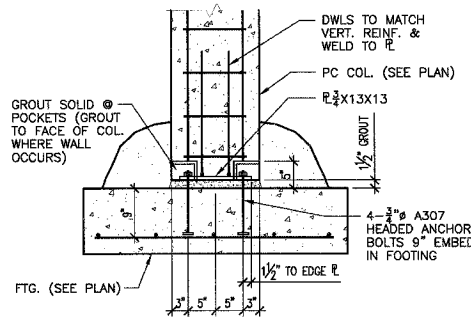
TYPICAL SLAB TO MASONRY SHEAR WALL CONNECTION

1.1C 1/2" = 1'-0"

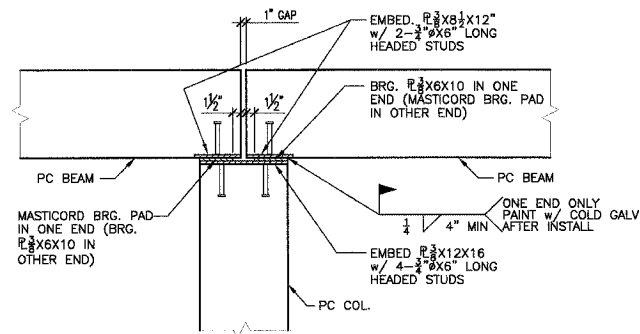


TYPICAL NON-BEARING CMU WALL BRACING

1.1D 1/2" = 1'-0"



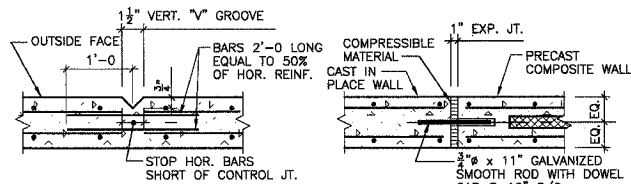
TYPICAL COL. TO FTG. CONN.



TYPICAL PC BEAM TO PC COLUMN CONN.

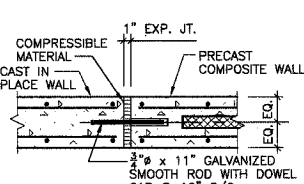
1.1B 1/2" = 1'-0"

NOTE: EXTEND BM OVER TO EDGE OF COL. WHERE BM OCCURS ONE SIDE ONLY.



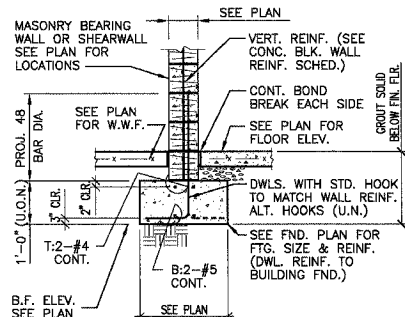
TYPICAL RETAINING WALL CONTROL JOINT

AT 20'-0" C/C MAXIMUM (OR AS NOTED)



TYPICAL RETAINING WALL EXPANSION JOINT

AT 100'-0" C/C MAXIMUM (OR AS NOTED)



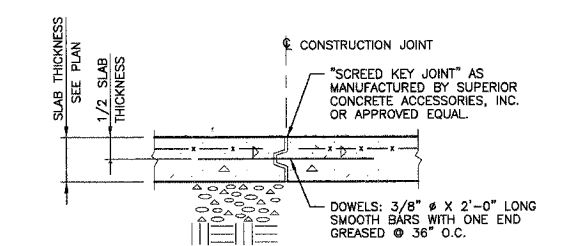
TYP. INTERIOR MASONRY SHEARWALL FOUNDATION

1.1A

CONCRETE STRENGTH SCHEDULE	
MEMBER	28 DAY COMPRESSIVE STRENGTH (fc)
PRECAST SLAB, WALL, BEAM & COLUMN	5,000 PSI (TYP. U.N.O.)
CAST IN PLACE WALL	4,000 PSI
ALL OTHERS INCLUDING: FOOTING, ETC.	3,500 PSI

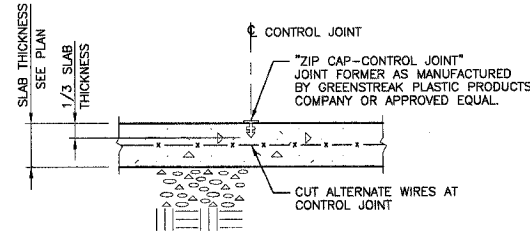
CONCRETE BLOCK WALL REINFORCING SCHEDULE					
NOMINAL BLOCK THICKNESS	VERTICAL REINFORCING (GROUT SOLID)	HORIZONTAL REINFORCING (GALVANIZED)			
		TYPE	SIDE ROD	CROSS ROD	SPACING
6"	#4 @ 24" (2'-6" LAP)	LADDER	0.148"φ	0.148"φ	16"
8"	#5 @ 32" (2'-6" LAP)	LADDER	0.188"φ	0.148"φ	16"

FOOTING DOWELS TO MATCH WALL REINFORCING (TYP. U.N.O.).



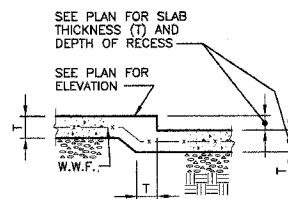
TYP. SLAB ON GRADE CONSTRUCTION JOINT

NOTE: CONSTRUCTION JOINTS TO BE LOCATED AT CONTROL JOINTS.

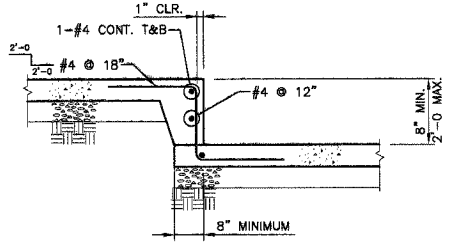


TYP. SLAB ON GRADE CONTROL JOINT

NOTE: CONTROL JOINTS AT 15'-0" O.C. MAXIMUM E.W., OR AS SHOWN ON PLAN

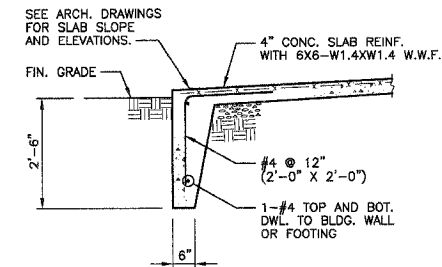


TYP. RECESS AT SLAB ON GRADE

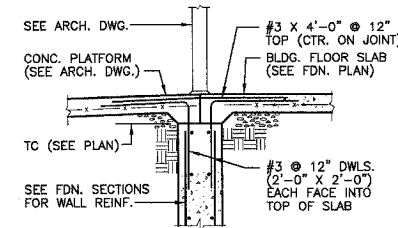


TYPICAL STEP IN SLAB ON GRADE

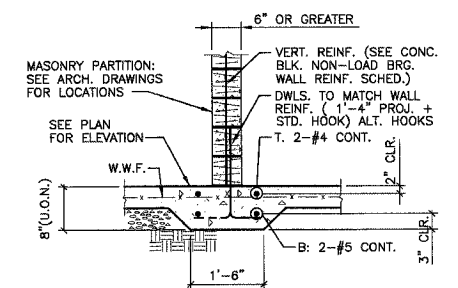
NOTES: 1. SEE PLAN FOR SLAB THICKNESS, SLAB REINFORCING, AND DEPTH OF STEP. 2. SEE DETAIL "A" WHERE TRENCH DRAIN OCCURS.



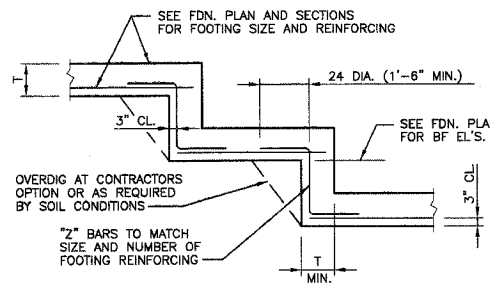
TYPICAL FROSTWALL



TYPICAL TOP OF WALL AT DOORWAY



TYPICAL NON-LOAD BEARING MASONRY PARTITION FOUNDATION



TYP. FOOTING STEP

DESIGN INFORMATION

- BUILDING CODE: BOCA 1999
- FLOOR LIVE LOADS (PSF): N/A
- ROOF LIVE LOAD (PSF): 30
- ROOF SNOW LOAD:
 - GROUND SNOW LOAD (PSF), P_g = 20
 - FLATROOF SNOW LOAD (PSF), P_f = 14
 - SNOW EXPOSURE FACTOR, C_e = 0.9
 - SNOW IMPORTANCE FACTOR, I = 1.0
 - ROOF THERMAL FACTOR, C_t = 1.0
- WIND LOAD:
 - BASIC WIND SPEED (MPH): 70
 - WIND LOAD IMPORTANCE FACTOR, I = 1.0
 - WIND EXPOSURE: C
- EARTHQUAKE DESIGN DATA:
 - PEAK VELOCITY-RELATED ACCELERATION, A_v = 0.13
 - PEAK ACCELERATION, A_g = 0.12
 - SEISMIC HAZARD EXPOSURE GROUP: I
 - SEISMIC PERFORMANCE CATEGORY: C
 - SOIL PROFILE TYPE: S₃
 - BASIC STRUCTURAL SYSTEM: LOAD BRG. WALL
 - SEISMIC RESISTING SYSTEM: REINF. MASONRY SHEARWALL
 - RESPONSE MODIFICATION FACTOR, R = 4.5
 - DEFLECTION AMPLIFICATION FACTOR, C_d = 4
 - SEISMIC ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

GENERAL NOTES
 IN FIELD LAYOUT AND SHOP DETAILING, THE CONTRACTOR MUST VERIFY AND COORDINATE DIMENSIONS ON ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT. ALL EXISTING DIMENSIONS AND CONDITIONS MUST BE FIELD VERIFIED BY CONTRACTOR.

FOUNDATIONS

- FOOTINGS HAVE BEEN PROPORTIONED FOR A NET MAXIMUM BEARING PRESSURE OF 2500 P.S.F. FOR ISOLATED COLUMN FOOTINGS & 2000 P.S.F. FOR CONTINUOUS FOOTINGS.
- FOOTINGS MUST EXTEND 2'-6" BELOW FINISHED GRADE, AND ARE TO BEAR ON UNDISTURBED SOIL OR ENGINEERED COMPACTED FILL.

GENERAL CONCRETE NOTES

- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE. SEE SCHEDULE THIS SHEET AND SPECIFICATION FOR CONCRETE STRENGTH.
- REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 STEEL, UNLESS NOTED OTHERWISE.
- ALL DETAILING, FABRICATION AND PLACEMENT OF BARS AND THEIR SUPPORT IN THE FORMS WITH ACCESSORIES, UNLESS NOTED OTHERWISE, MUST FOLLOW THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315 LATEST). REINFORCING STEEL PLACING DRAWINGS WILL MEET THE FOLLOWING MINIMUM REQUIREMENTS IN ADDITION TO THOSE STATED ABOVE:
 - REINFORCING PLACING DRAWINGS FOR SLABS, BEAMS, JOISTS ETC. WILL BE SHOWN ON PLANS DRAWN TO A MINIMUM SCALE OF 1/8" = 1'-0". MINIMUM SHEET SIZE WILL BE 24" X 36".
 - REINFORCING FOR FOUNDATION WALLS, RETAINING WALLS, SHEAR WALLS ETC. WILL BE SHOWN ON ELEVATIONS DRAWN TO A MINIMUM SCALE OF 1/4" = 1'-0".
 - REINFORCING FOR BEAMS, COLUMNS AND SLABS MUST BE CLEARLY SHOWN IN SCHEDULES SIMILAR TO THOSE ON THE STRUCTURAL DRAWINGS. COMPUTER PRINT-OUTS ATTACHED TO LARGER SHEETS AND REPRODUCED AS SHOP DRAWINGS WILL NOT BE PERMITTED.
 - LOCATION OF REINFORCING NOT CLEARLY DESCRIBED IN SCHEDULED FORMAT MUST BE REFERENCED ON PLACING PLANS.
- CONCRETE COVER OVER MAIN REINFORCING SHALL BE AS FOLLOWS: FOOTINGS 3", COLUMNS AND BEAMS 2", SOLID SLABS 1" AND WALLS 2" WHERE EXPOSED TO WEATHER OR GROUND AND 1" FOR INTERIOR SURFACES.
- ALL BARS IN WALLS AND GRADE BEAMS AND TEMPERATURE BARS IN SLABS SHALL LAP A MINIMUM OF 30 DIAMETERS (24" MIN.). SEE PLAN FOR SPECIAL REQUIREMENTS FOR BEAMS, COLUMNS, ETC. ANY SPLICE OF BARS OTHER THAN SHOWN ON PLANS MUST HAVE PRIOR APPROVAL OF THE ENGINEER.
- WELDED WIRE FABRIC MUST LAP A MINIMUM OF 1'-0" AND SHALL EXTEND 1'-0" INTO SUPPORTING BEAM AND WALLS UNLESS EXPANSION JOINT IS CALLED FOR. WELDED WIRE FABRIC SHALL BE PLACED ON TOP OF ALL OTHER BARS, SLEEVES, CONDUITS, ETC.
- PROVIDE THE FOLLOWING ADDITIONAL REINFORCING UNLESS OTHERWISE CALLED FOR ON STRUCTURAL PLANS:
 - 2-#5 BARS EACH SIDE OF 12" OR LARGER OPENINGS IN SLABS AND WALLS.
 - CORNER BARS (2'-0" X 2'-0") IN OUTER FACE OF ALL CONCRETE WALLS AND GRADE BEAMS TO MATCH SIZE AND SPACING OF BARS IN WALL OR BEAM.
 - WALLS, UNLESS NOTED OTHERWISE, #4@12" EACH WAY, EACH FACE AND 2-#5 TOP AND BOTTOM.
- ALL DOWELS MUST BE IN POSITION BEFORE PLACING CONCRETE. PUSHING BARS INTO FRESHLY PLACED CONCRETE IS NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORT BARS AS NECESSARY TO KEEP DOWELS IN PLACE.
- ALL STRUCTURAL STEEL MUST BE PROTECTED BY 3" OF CONCRETE WHERE EARTH WOULD OTHERWISE BE IN CONTACT WITH STEEL.
- ALL ABUTTING CONC. SHALL BE DOWELED TOGETHER UNLESS POURED MONOLITHIC. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ABUTTING MEMBERS.
- WHEN FOUNDATION WALLS SPAN FROM GROUND FLOOR TO FIRST FLOOR, BOTH GROUND FLOOR SLAB AND FIRST FLOOR SLAB MUST BE IN PLACE BEFORE BACKFILL IS PLACED, UNLESS NOTED OTHERWISE.
- THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS MUST BE REFERRED TO FOR ALL FLOOR, ROOF AND WALL REQUIREMENTS SUCH AS SLEEVES, OUTLET BOXES, ANCHORS, VENT OPENINGS, ETC., THAT MAY BE REQUIRED. HOLES OR NOTCHES WILL NOT BE ALLOWED IN ANY CONCRETE FRAMING UNLESS SIZE AND LOCATION HAVE BEEN APPROVED BY THE ENGINEER.
- WHERE EPOXY DOWELS ARE INDICATED, INSTALL PER MANUFACTURERS RECOMMENDATIONS WITH ITW RAMSET/REDHEAD EPCON EPOXY SYSTEM, SIMPSON EPOXY-TIE ADHESIVE OR ANCHOR-IT EPOXY SYSTEM.

ABBREVIATION LIST

BD	= BOTTOM OF DECK
BF	= BOTTOM OF FOOTING
BP	= BEAM POCKET
BS	= BRICK SHELF
BW	= BOTTOM OF WALL
CJP	= COMPLETE JOINT PENETRATION
CP	= COLUMN POCKET
CS	= CONCRETE SHELF
SW	= SHEAR WALL
TC	= TOP OF CONCRETE
TF	= TOP OF FOOTING
TP	= TOP OF PIER
TS	= TOP OF STEEL
TW	= TOP OF WALL
UNO	= UNLESS NOTED OTHERWISE

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SSE PROJECT NO: 02111 PHASE 2A

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KAI

PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
TYPICAL DETAILS & GENERAL NOTES

DATE	
REMARKS	
REV. NO.	
KENNEDY PROJECT NO KAI# 10-02048	
ISSUE DATE 03-JUNE-05	
SHEET NO S1.1A	

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PHASE 2A
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SHEET TITLE
FOUNDATION PLAN

REV. NO.	DATE	REMARKS

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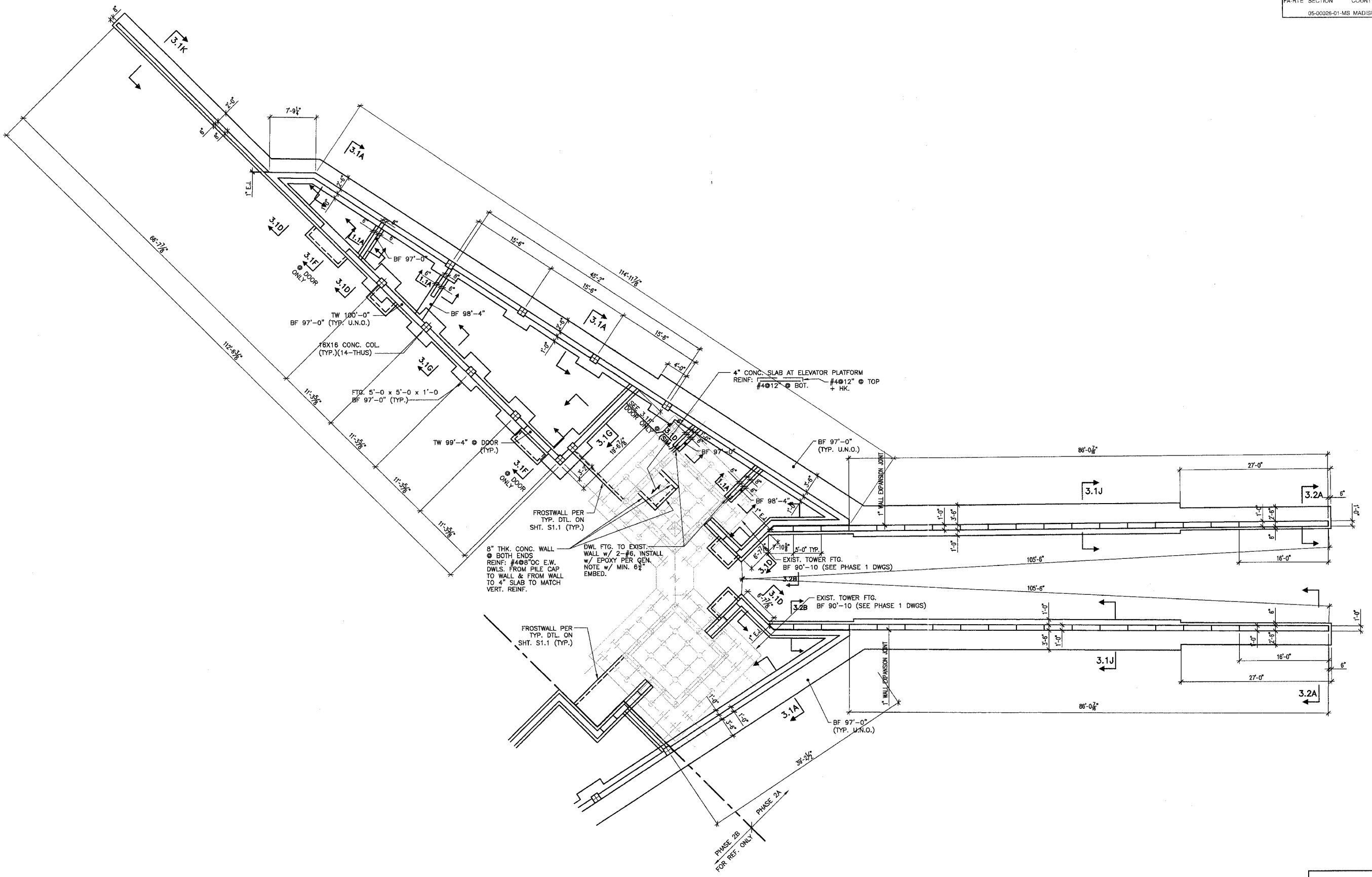
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KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
03-JUNE-05

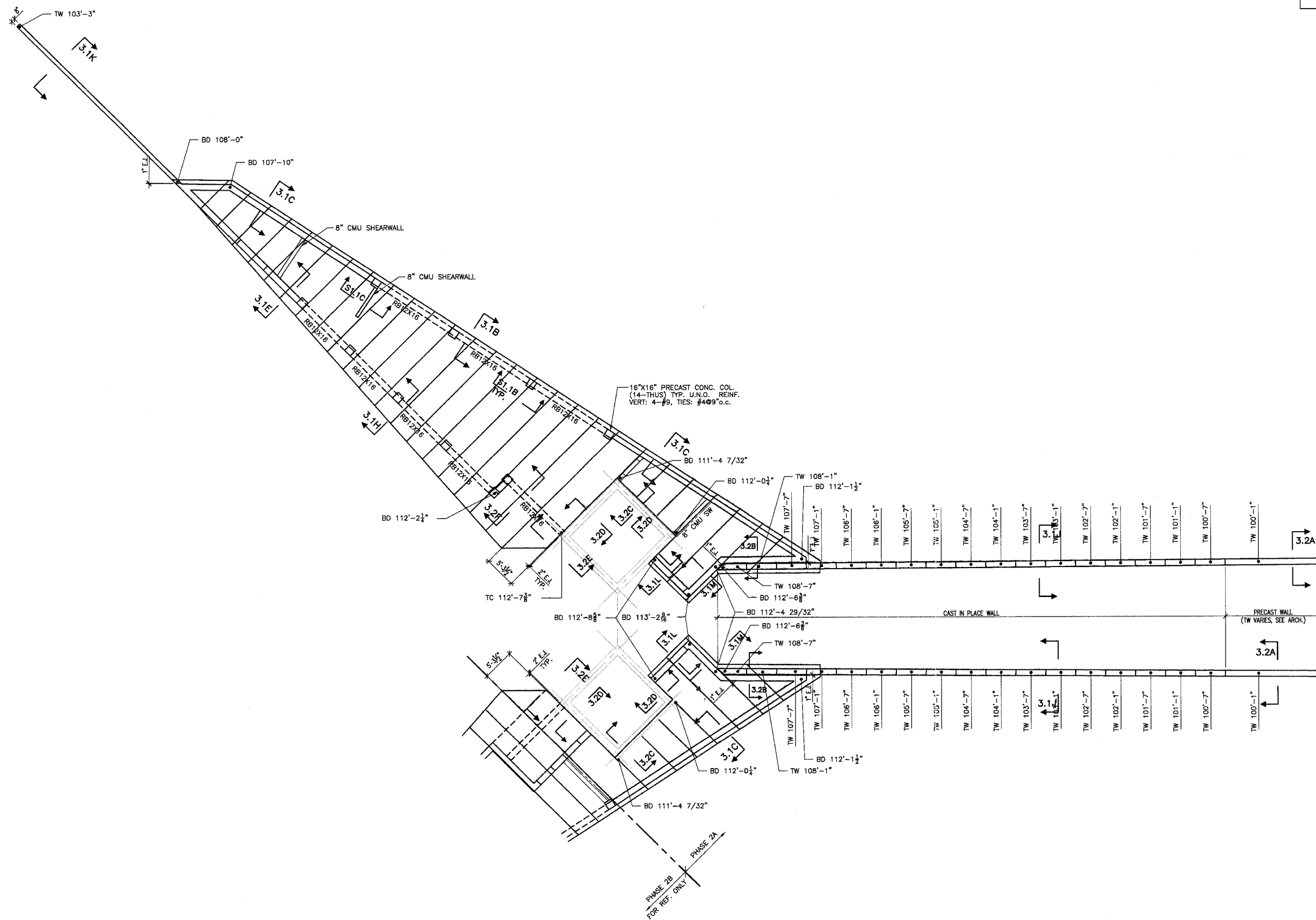
SHEET NO
S2.1A

SSC PROJECT NO: 02111 PHASE 2A



FIRST FLOOR FOUNDATION PLAN 1/8"=1'-0"

- NOTES: 1. FIN. FLR. EL. 100'-0" (U.N.O.).
 2. FLR. CONSTR: 4" CONC. SLAB ON GRANULAR FILL. REINF. SLAB W/ 6X6-W1.4XW1.4 W.W.F. OR STRUX 90/40 FIBER REINF. BY GRACE CONSTR. PRODUCTS @ THE DOSAGE RATE OF 3.5 lbs./cubic yd. PER W.R. GRACE SPECS. (OR EQUAL) - U.N.O.



ROOF PLAN 1/8"=1'-0"

NOTES:

1. ROOF CONSTR: RIGID INSULATION ON 4'-0"x8" DP. (MAX.) PRESTRESSED HOLLOW CORE NORM. WT. CONC. SLAB. (TYPE 4HCB-66-S OR APPROVAL EQUAL), TOP OF SLAB VARIES DESIGN CRITERIA: DL = 20PSF LL = 30PSF
2. ALL EMBEDS ARE GALVANIZED WHERE EXPOSED.
3. PRECAST CONTRACTOR TO PROVIDE CONNECTION BETWEEN WALL PANEL TO WALL PANEL. WALL PANEL TO COL. FOR 200 LB/FT IN BOTH DIRECTIONS.
4. PRECASTER IS RESPONSIBLE FOR COORDINATING FABRICATION OF CONCRETE PANELS WITH LOCATION OF ALL ELECTRICAL, MECHANICAL, AND PLUMBING DEVICES. PANELS SHOULD BE DESIGNED TO INCLUDE ALL KNOCKOUTS AND VOIDS REQUIRED FOR DUCTWORK AND JUNCTION BOXES. THEY SHOULD ALSO INCLUDE CONDUIT FOR THE WIRING OF ALL DEVICES.

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HARTFORD, ILLINOIS 62049

SHEET TITLE:
ROOF PLAN

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
03-JUNE-05

SHEET NO
S2.2A

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**PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049**

SECTIONS & DETAILS

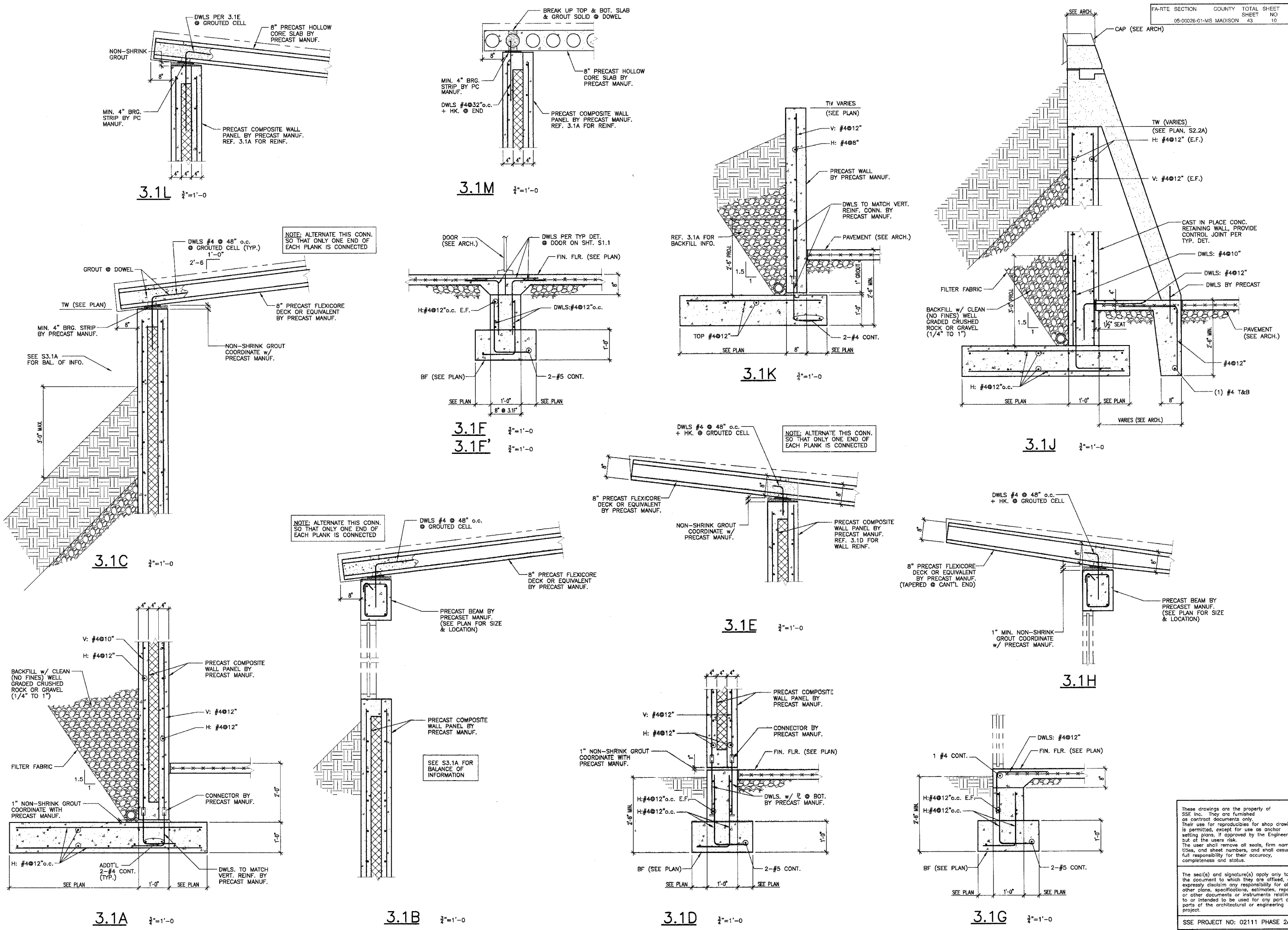
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SECTIONS & DETAILS			

KENNEDY PROJECT NO KAI# 10-02048
ISSUE DATE 08-JUNE-05
SHEET NO S3.1A

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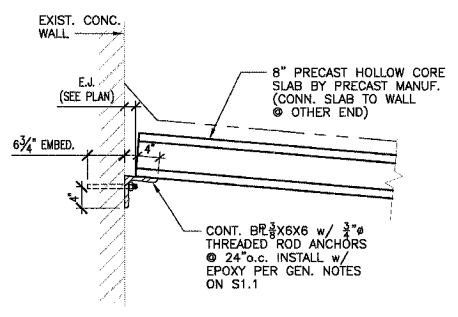
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SHEET TITLE
 SECTIONS & DETAILS

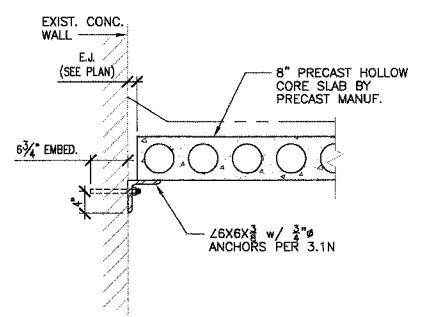
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KENNEDY PROJECT NO
 KAI# 10-02048
 ISSUE DATE
 03-JUNE-06
 SHEET NO
S3.2A

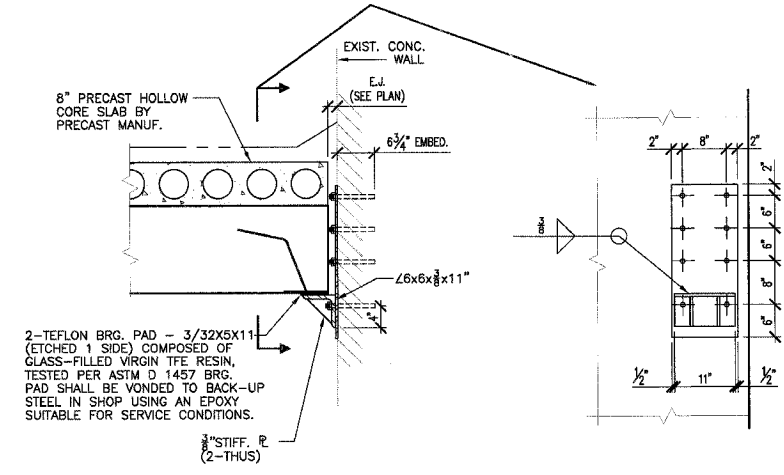
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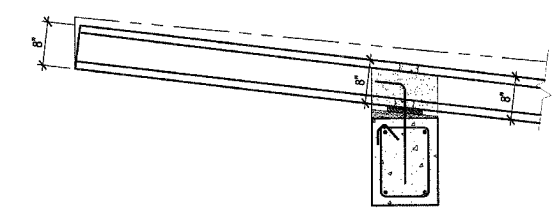
3.2C 3/4"=1'-0"



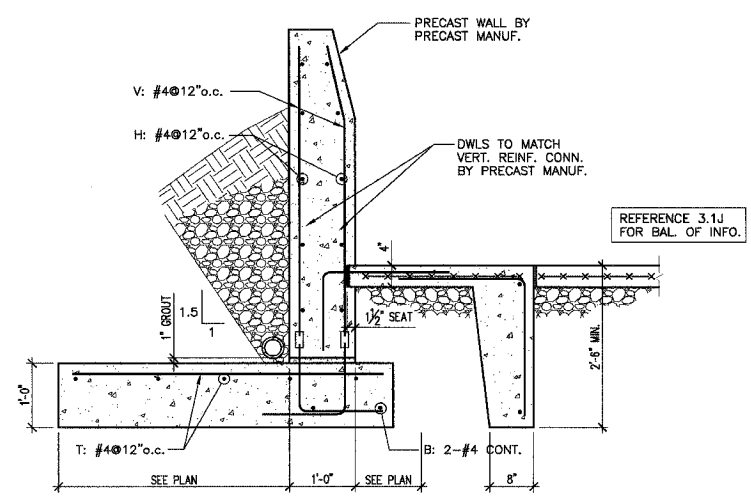
3.2D 3/4"=1'-0"



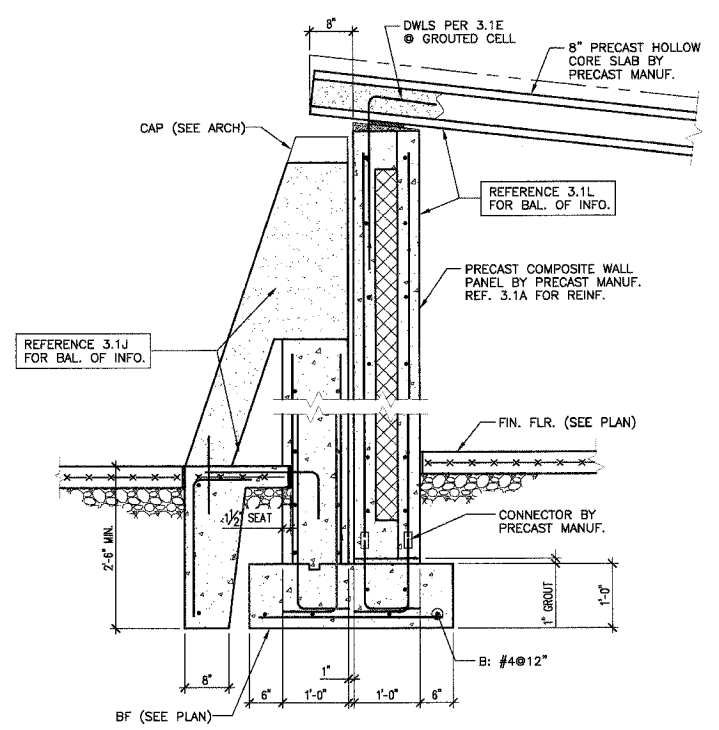
3.2E 3/4"=1'-0"



3.2F 3/4"=1'-0"



3.2A 3/4"=1'-0"



3.2B 3/4"=1'-0"

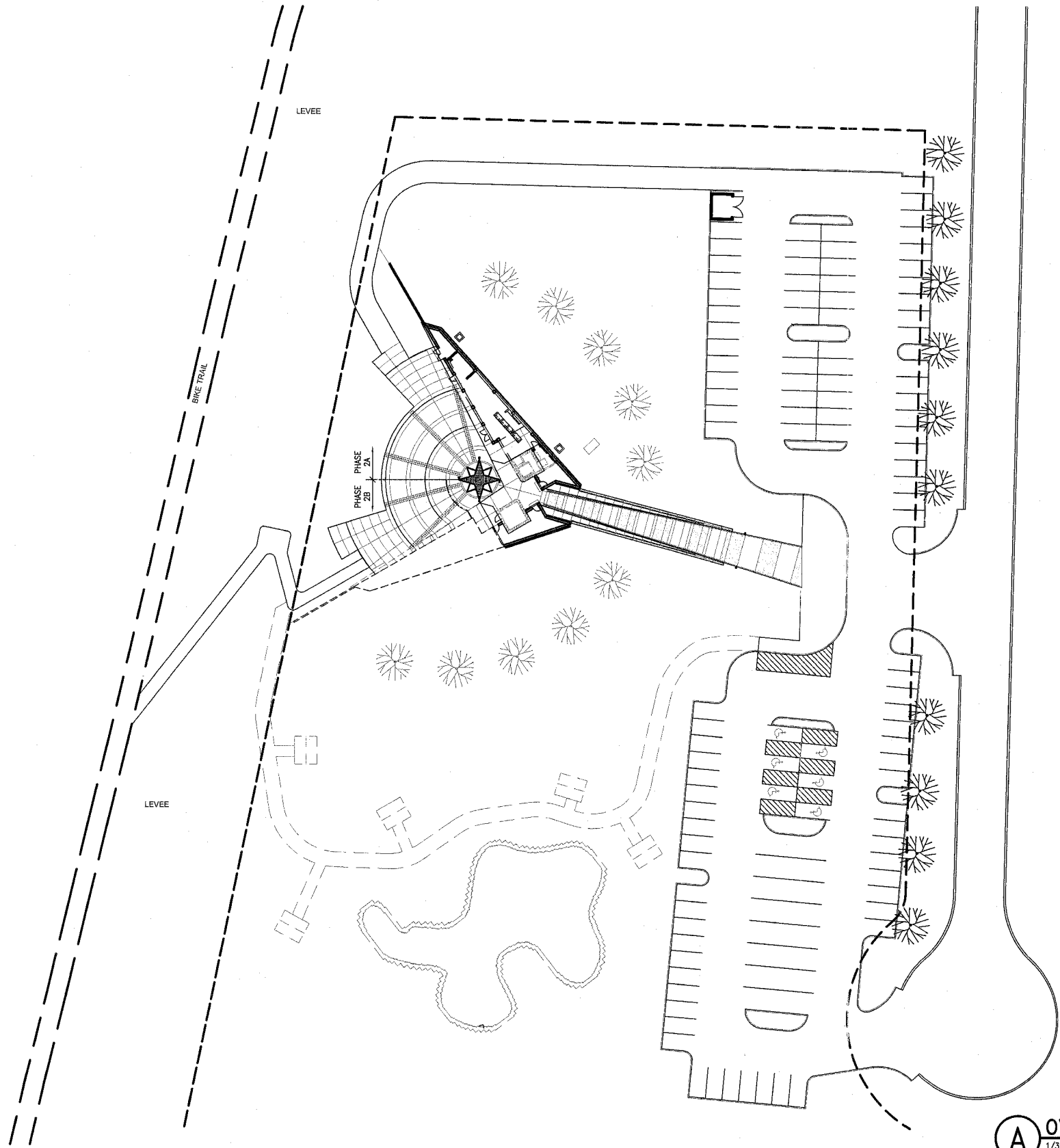
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SSE PROJECT NO: 02111 PHASE 2A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	12

FEDERAL AID PROJECT



A OVERALL SITE PLAN (REFERENCE)
1/32" = 1'-0"



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LEWIS AND CLARK MEMORIAL TOWER
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HARTFORD, ILLINOIS 62049

SHEET TITLE:
OVERALL SITE PLAN
REFERENCE ONLY

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

AA1-02

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PHASE 2A
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SHEET TITLE:
PHASE 2A SIT PLAN

REV. NO.	DATE	REMARKS

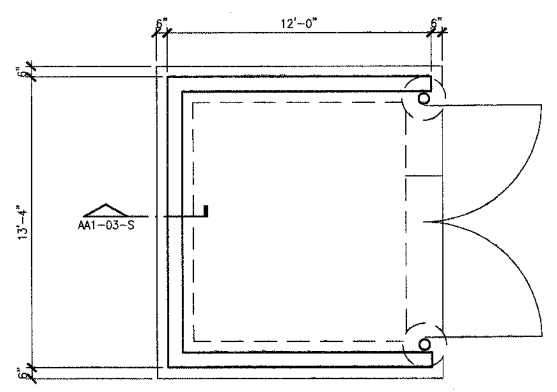
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KAI# 10-02048

ISSUE DATE
12-JULY-05

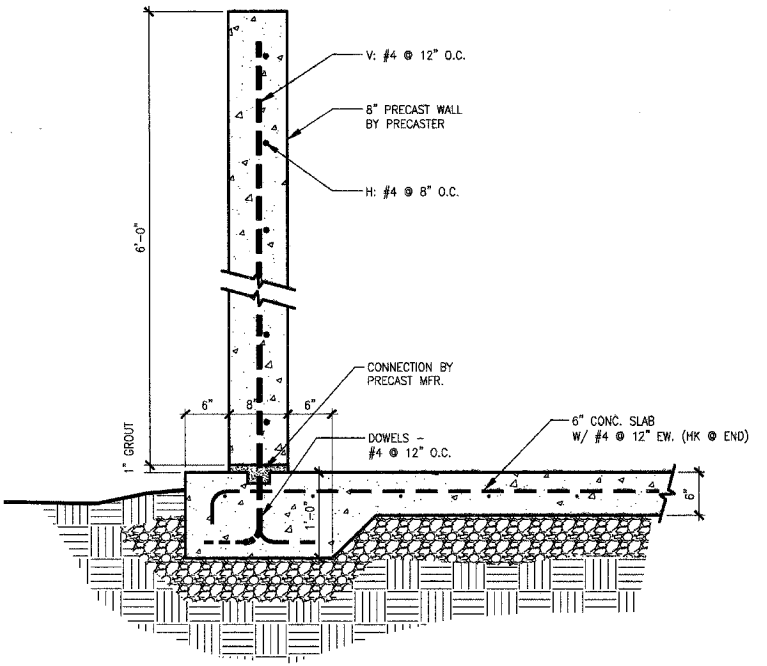
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AA1-03

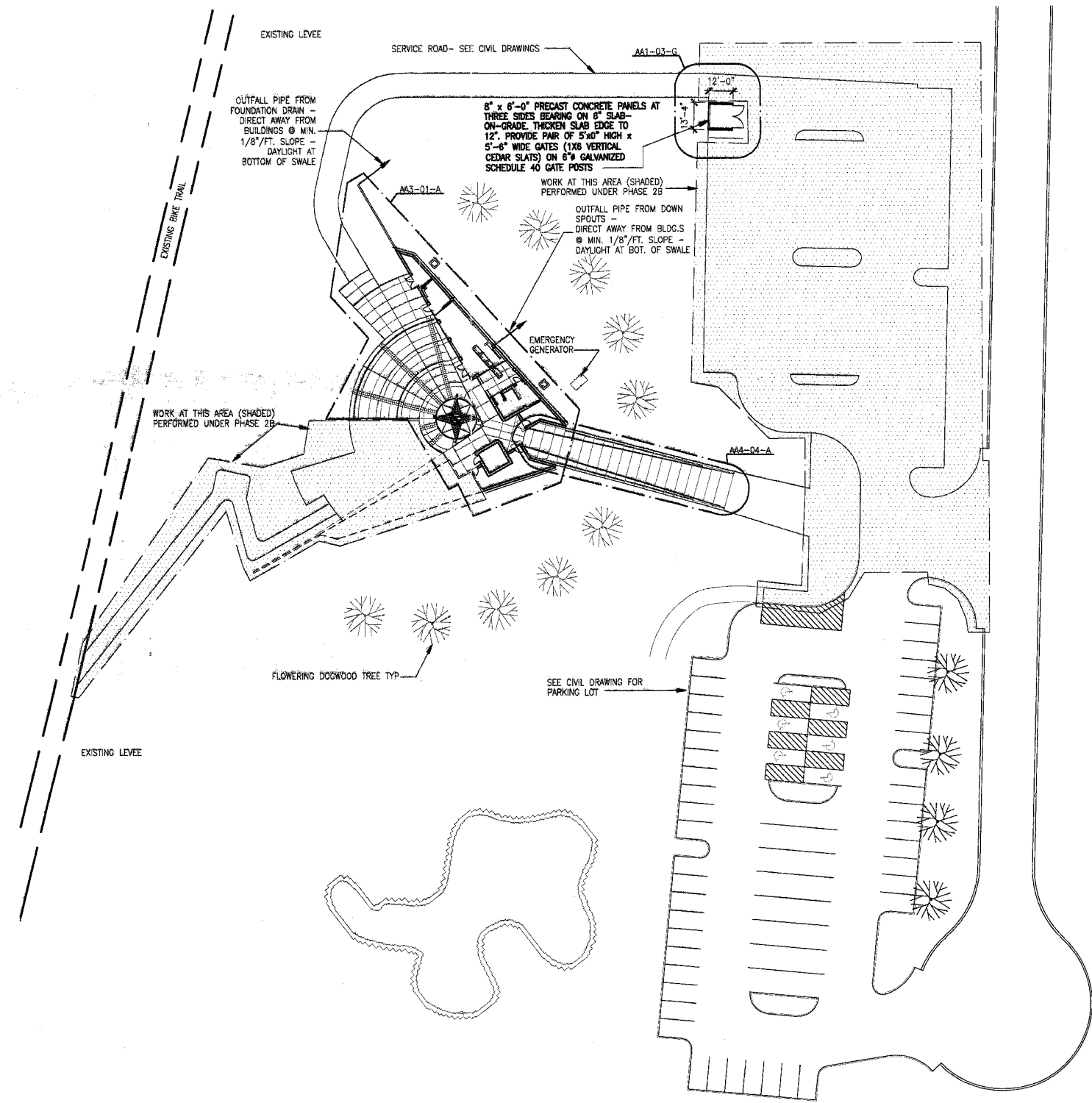
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G DUMPSTER ENCLOSURE
1/4"=1'-0"



S DUMPSTER ENCLOSURE
1"=1'-0"

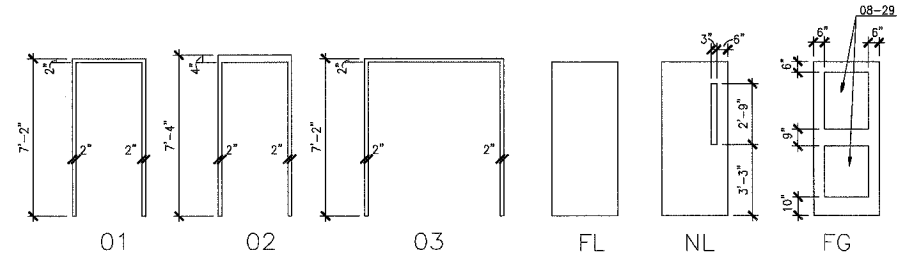


A PHASE 2A SITE PLAN
1/32" = 1'-0"



FEDERAL AID PROJECT
GENERAL NOTES:

1. ALL DOOR DIMENSIONS ARE 3'-0" x 7'-0" UNLESS NOTED OTHERWISE.
2. SEE FINISH SCHEDULE FOR DOOR AND FRAME FINISHES.



DOOR ELEV. LEGEND

- FL FLUSH
- FG FULL GLASS
- NL NARROW LITE

DOOR MATERIAL LEGEND

- HM HOLLOW METAL
- GL GLASS
- AL ALUMINUM

DOOR TYPE SCHEDULE

DOOR TYPE	DOOR ELEV.	DOOR MATERIAL	FRAME ELEV.	OPENING RATING	REMARKS
A	FL	HM	01		
B					NOT USED
C	FG	AL/GL	01		INSTALL TEMPERED INSULATED GLASS
D	NL	HM/GL	01	1 1/2 HOUR	INSTALL FIRE-RATED GLASS @ LITE
E	FL	HM	02		
F	FG	AL/GL	03		INSTALL TEMPERED INSULATED GLASS
G	FL	HM	03		

FRAME ELEVATION

1/4"=1'-0"

DOOR ELEVATIONS

1/4"=1'-0"

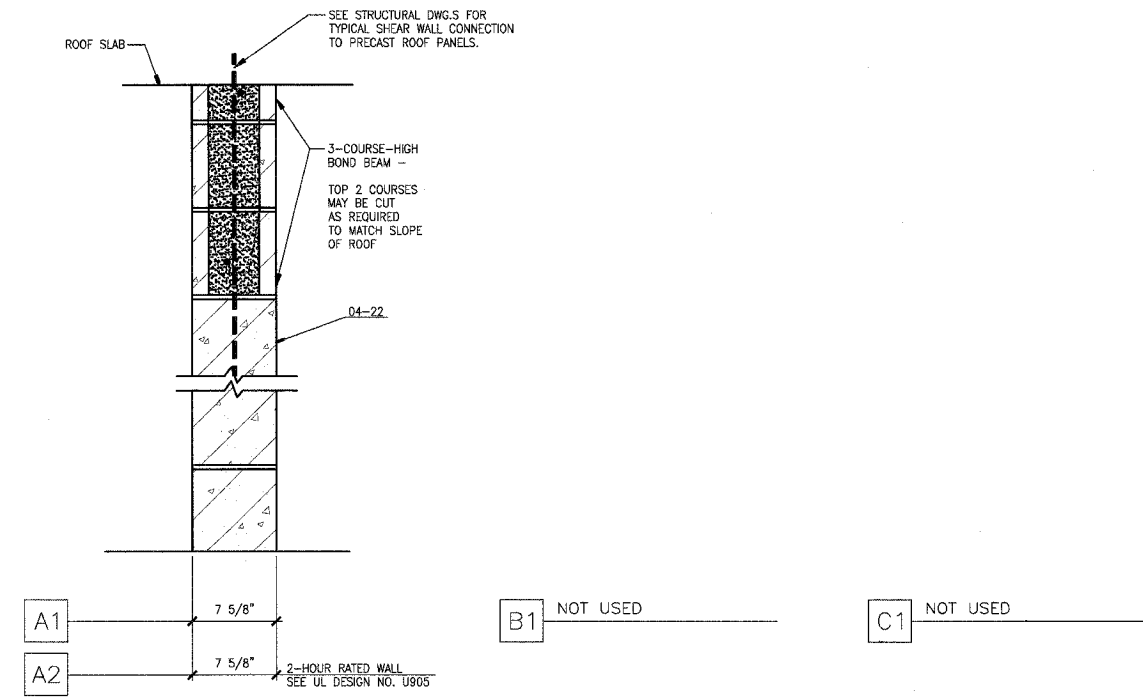
FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	WALLS	CEILING FINISH	CEILING HEIGHT	REMARKS
101	MECHANICAL	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC
102	VENDING	STC	HPC	AP/HPC	VARIES	
103	GIFT SHOP	STC	HPC	AP/HPC	VARIES	
104	CONTROL DESK	STC	HPC	AP/HPC	VARIES	
105	LOBBY	*	---	HPC	VARIES	*COLORED CONC. - PART OF PLAZA PAVING
106	ELEVATOR MECHANICAL	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC
107	ELECTRICAL	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC
108	PUMPS	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC

KEYED NOTES:

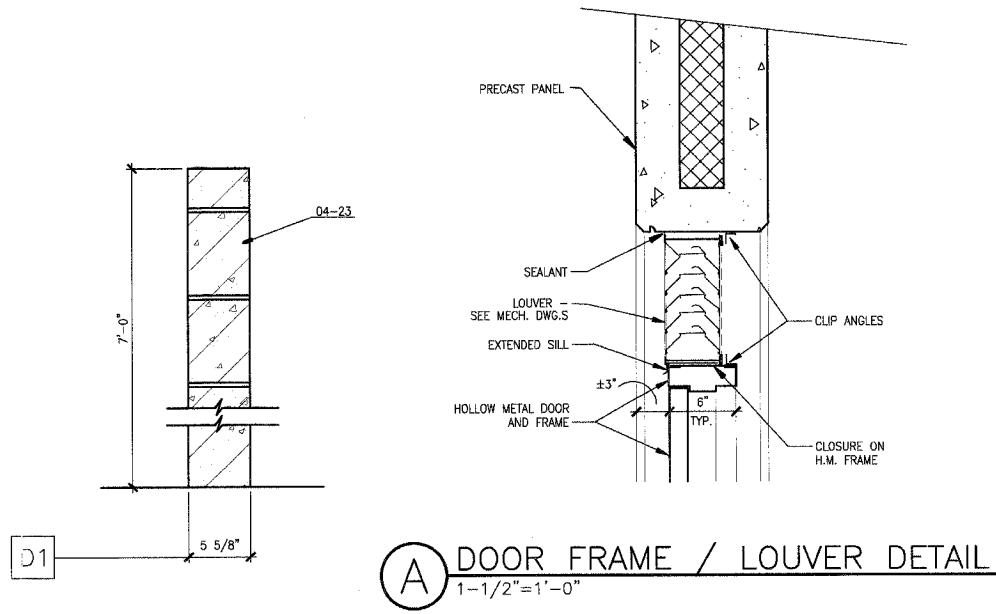
- 04-22 8" CONCRETE MASONRY UNIT
- 04-23 6" CONCRETE MASONRY UNIT
- 04-62 COMPRESSIBLE FILLER
- 08-29 GLAZING TYPE 1 (1" INSULATED)

- SC SEALED CONCRETE
- STC STAINED CONCRETE
- HPC HIGH PERFORMANCE COATING
- AP ACOUSTICAL PANEL



PARTITION TYPES

1-1/2"=1'-0"



DOOR FRAME / LOUVER DETAIL

1-1/2"=1'-0"

211 N. Broadway
Suite 100
St. Louis, MO 63102
(314) 241-8988
FAX (314) 241-0228



PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
MOUNTING HEIGHTS/
PARTITION TYPES
DOOR INFORMATION

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
KAI- 10-02048

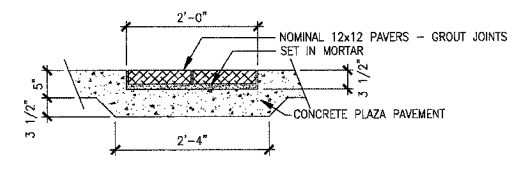
ISSUE DATE
12-JULY-05

SHEET NO

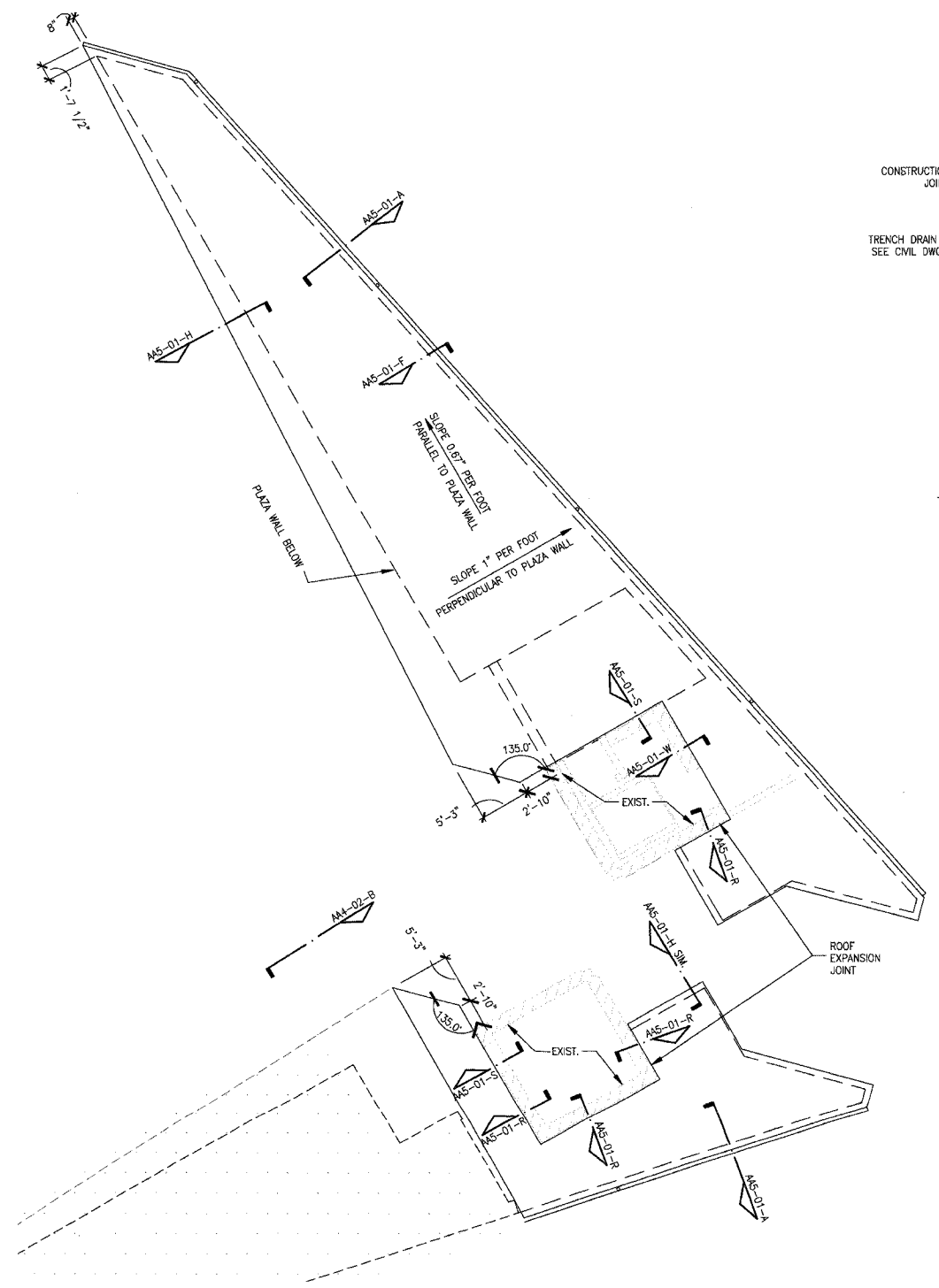
AA2-01

Note: Precaster is responsible for coordinating fabrication of concrete panels with location of all electrical, mechanical, and plumbing devices. Panels should be designed to include all knockouts and voids required for ductwork and junction boxes. They should also include conduit for the wiring of all such devices.

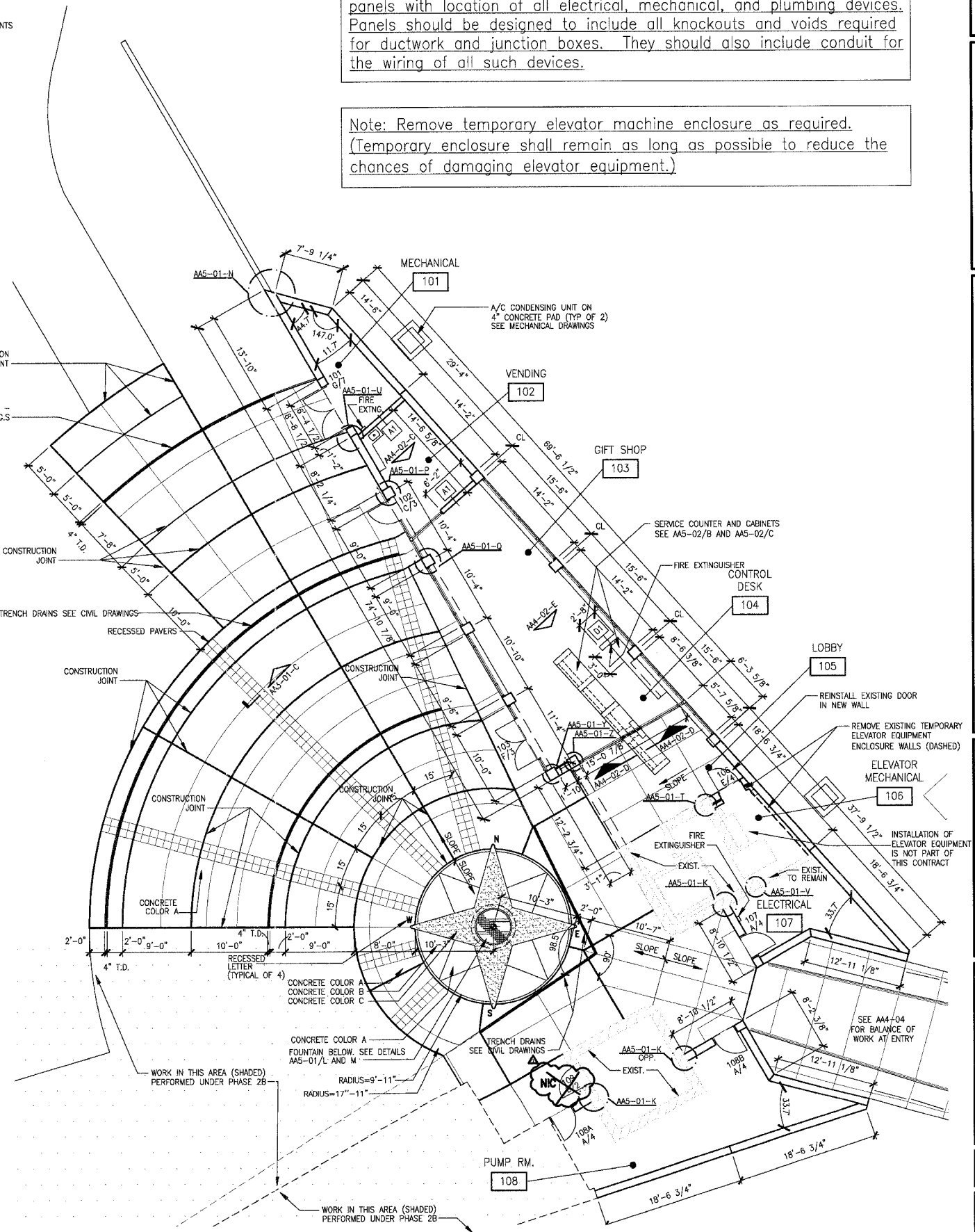
Note: Remove temporary elevator machine enclosure as required. (Temporary enclosure shall remain as long as possible to reduce the chances of damaging elevator equipment.)



C PLAZA DETAIL
3/4" = 1'-0"



A ROOF PLAN
1/8" = 1'-0"
PLAN NORTH



B FLOOR PLAN
1/8" = 1'-0"
PLAN NORTH

211 N. Broadway
Suite 1000
St. Louis, MO 63102
(314) 241-9188
FAX (314) 241-0225



**PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049**

SHEET TITLE:
**FLOOR PLAN AND
ROOF PLAN**

REV. NO.	DATE	REMARKS
1	11/8/06	DOT REV.

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO
AA3-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	16

FEDERAL AID PROJECT

211 N. Broadway
Suite 1000
St. Louis, MO 63102
Phone (314) 241-0100
Fax (314) 241-0125

KAI

**PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049**

SHEET TITLE:
**REFLECTED CEILING
PLAN**

REV. NO.	DATE	REMARKS
1	11/29/06	100% REV.

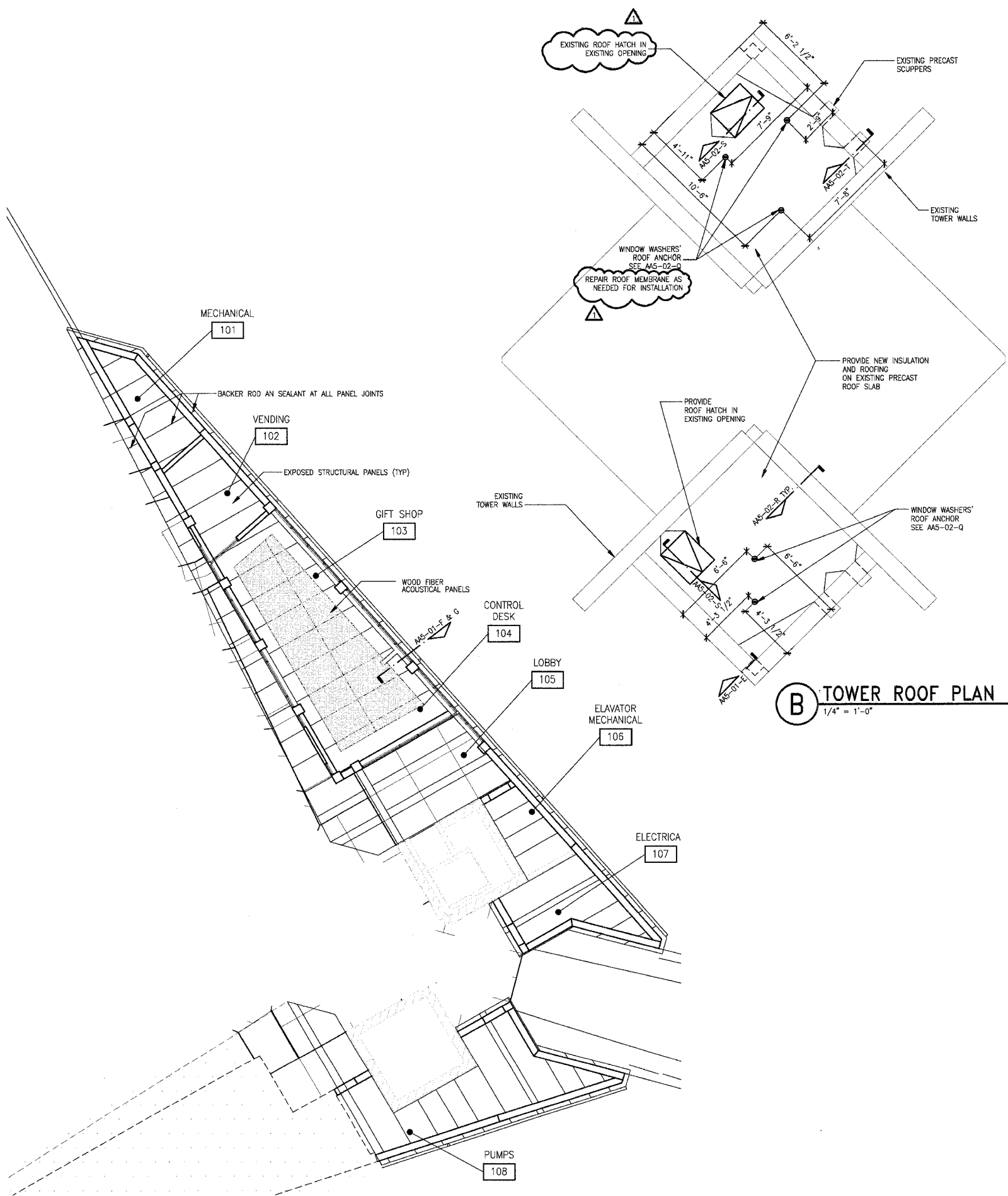
KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

AA3-02

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(A) REFLECTED CEILING PLAN
1/8" = 1'-0"



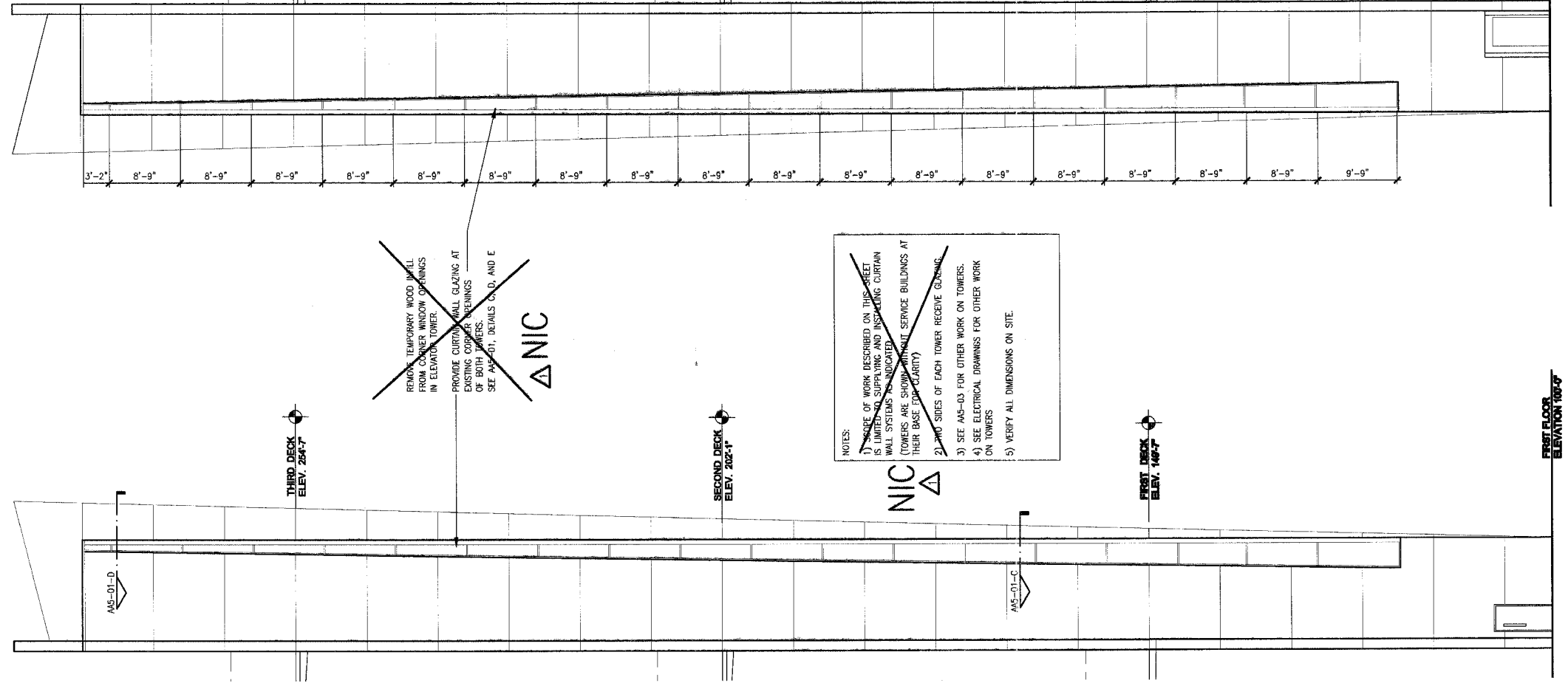
(C) SECTION THRU SOUTH TOWER
1" = 10'-0"

(D) SECTION THRU NORTH TOWER
1" = 10'-0"

Drawing Stamp Information

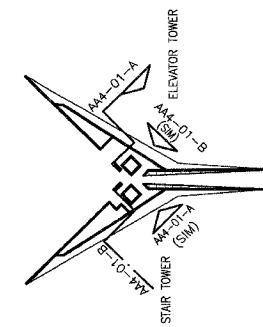
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	17

FEDERAL AID PROJECT



~~REMOVE TEMPORARY WOOD INFILL FROM CORNER WINDOW OPENINGS IN ELEVATOR TOWER.
PROVIDE CURTAIN WALL GLAZING AT EXISTING CORNER OPENINGS OF BOTH TOWERS.
SEE AA4-01, DETAILS C, D, AND E~~

NOTES:
~~1) SCOPE OF WORK DESCRIBED ON THIS SHEET IS LIMITED TO SUPPLYING AND INSTALLING CURTAIN WALL SYSTEMS AS INDICATED (TOWERS ARE SHOWN WITHOUT SERVICE BUILDINGS AT THEIR BASE FOR CLARITY)
 2) BOTH SIDES OF EACH TOWER RECEIVE GLAZING.
 3) SEE AA4-03 FOR OTHER WORK ON TOWERS.
 4) SEE ELECTRICAL DRAWINGS FOR OTHER WORK ON TOWERS
 5) VERIFY ALL DIMENSIONS ON SITE.~~



A ELEVATOR TOWER ELEVATION (NORTHWEST)
1/8"=1'-0"

B STAIR TOWER ELEVATION (SOUTHWEST)
1/8"=1'-0"

KEY PLAN, N.T.S.

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 Suite 1000
 St. Louis, MO 63102
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 FAX (314) 241-9128

PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
 HARTFORD, ILLINOIS 62049

SHEET TITLE:
EXTERIOR TOWER ELEVATIONS

REV. NO.	REMARKS	DATE
1	100% REV.	11/8/06

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

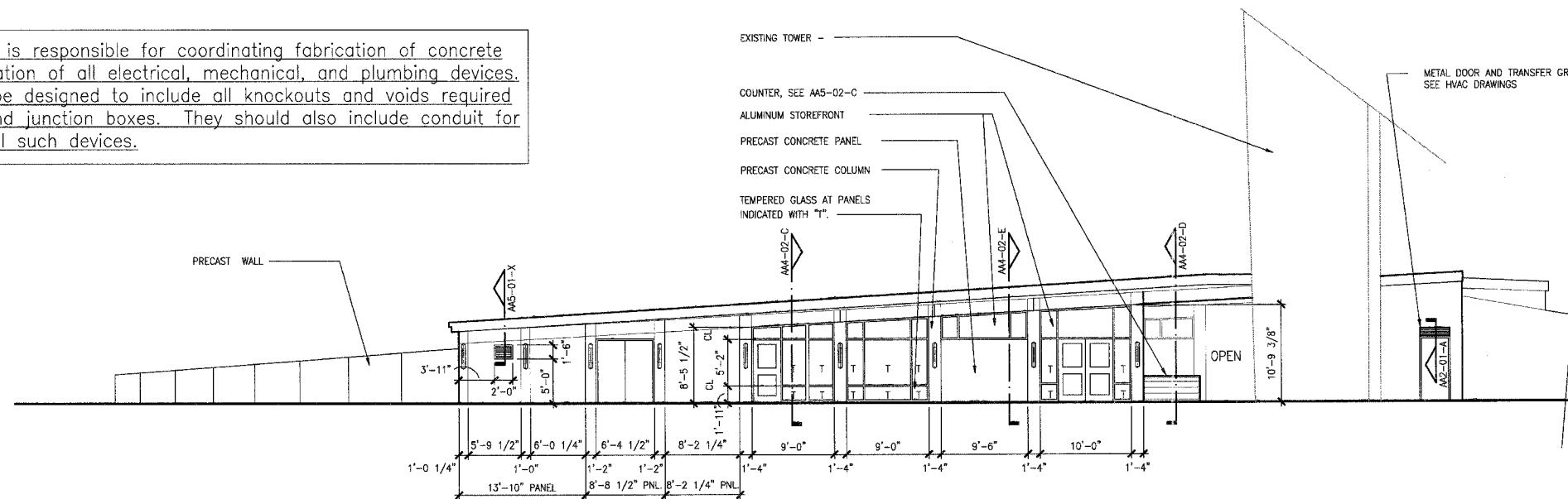
SHEET NO

AA4-01

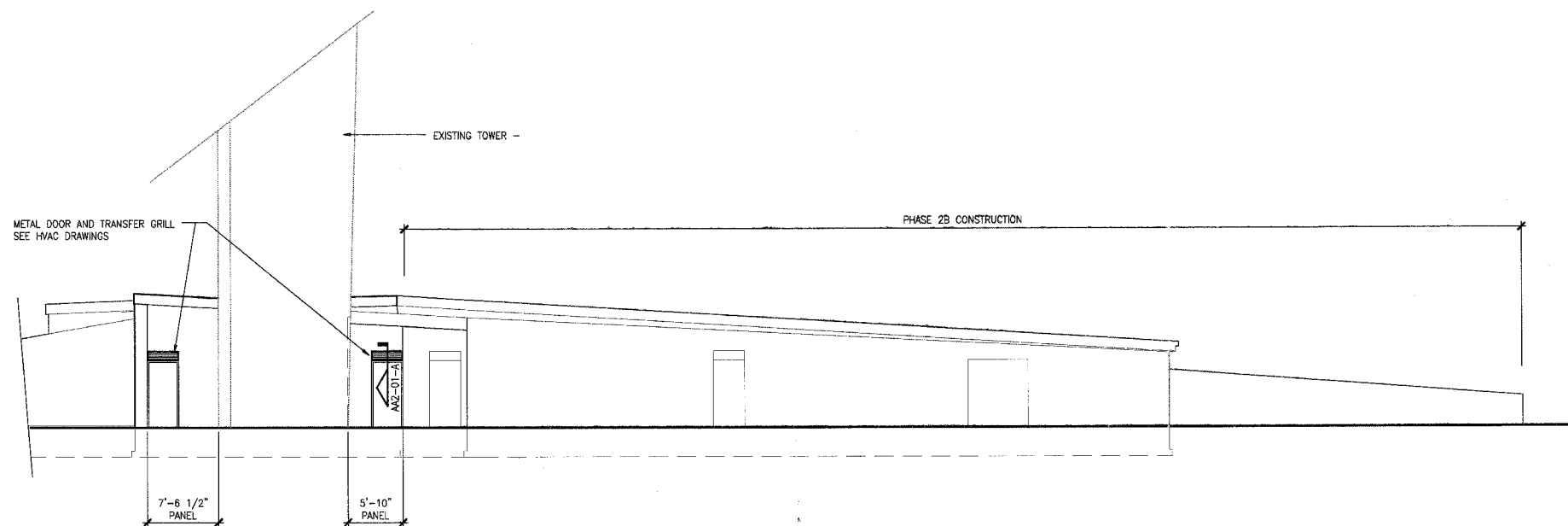
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	18

FEDERAL AID PROJECT

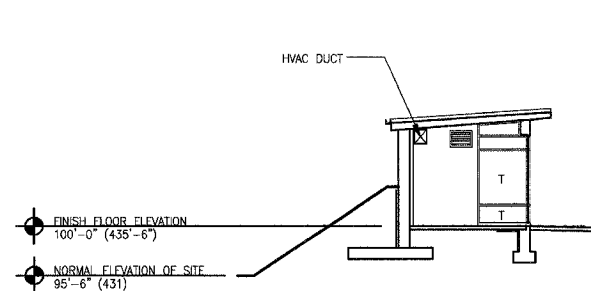
Note: Precaster is responsible for coordinating fabrication of concrete panels with location of all electrical, mechanical, and plumbing devices. Panels should be designed to include all knockouts and voids required for ductwork and junction boxes. They should also include conduit for the wiring of all such devices.



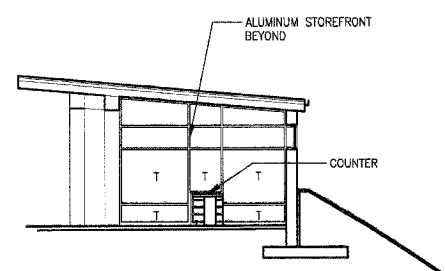
A NORTH BUILDING PLAZA ELEVATION
1/8"=1'-0"



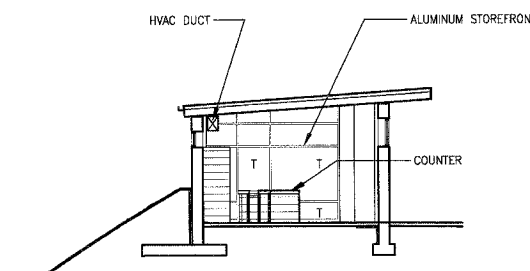
B SOUTH BUILDING PLAZA ELEVATION
1/8"=1'-0"



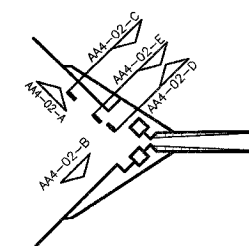
C SECTION AT NORTH BUILDING
1/8"=1'-0"



D SECTION AT NORTH BUILDING
1/8"=1'-0"



E SECTION AT NORTH BUILDING
1/8"=1'-0"



KEY PLAN, N.T.S.

PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
EXTERIOR BUILDING ELEVATIONS

REV. NO.	REMARKS	DATE

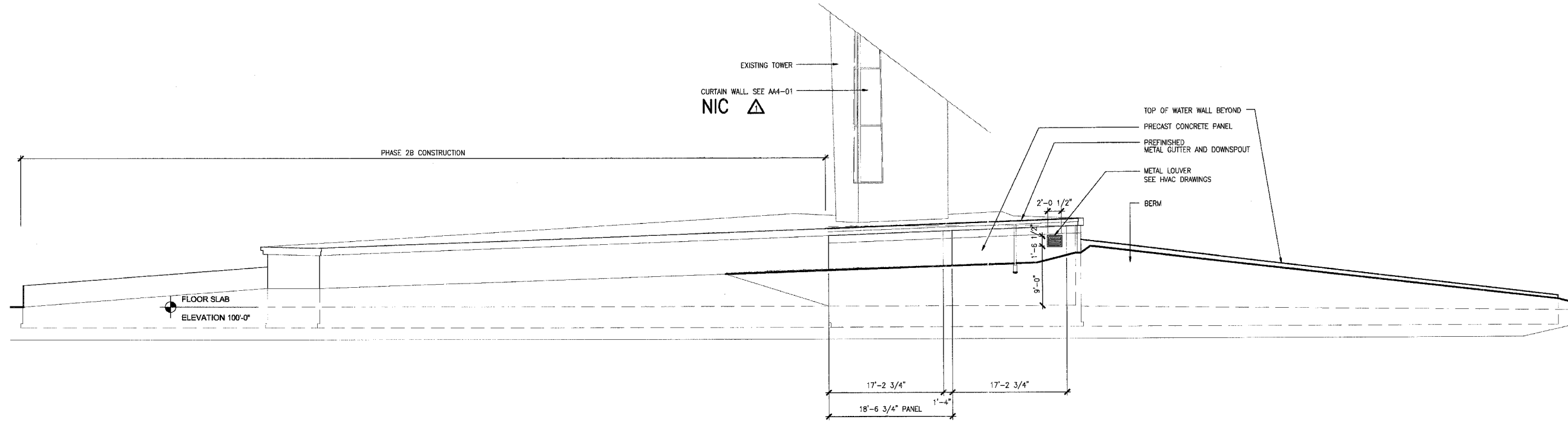
KENNEDY PROJECT NO
KAI 10-02048

ISSUE DATE
12-JULY-05

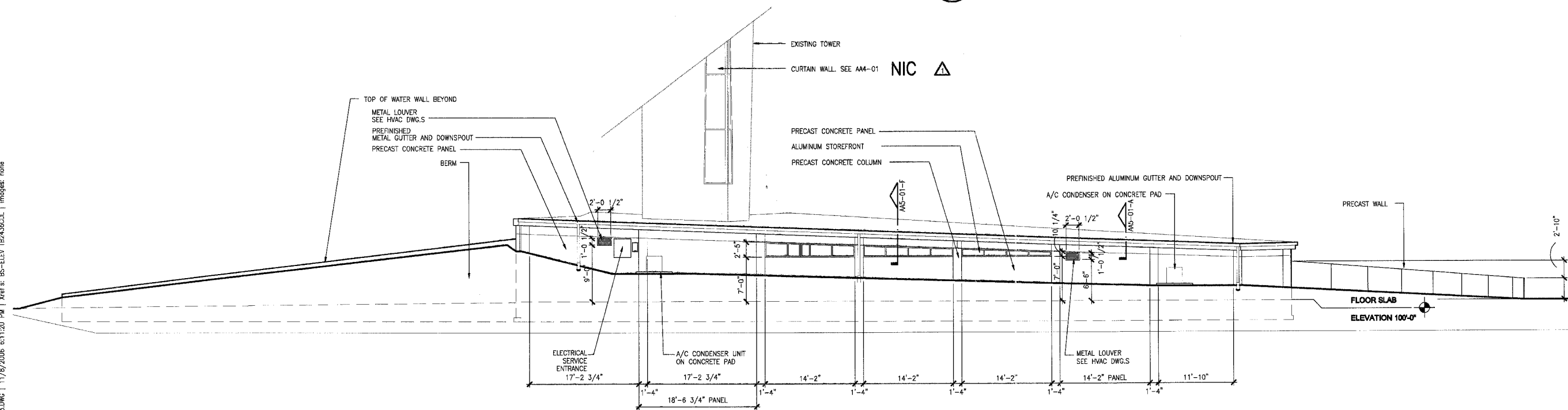
SHEET NO

AA4-02

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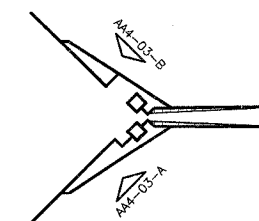


(A) SOUTH ELEVATION OF SOUTH BUILDING
1/8"=1'-0"



(B) NORTH ELEVATION OF NORTH BUILDING
1/8"=1'-0"

Note: Precaster is responsible for coordinating fabrication of concrete panels with location of all electrical, mechanical, and plumbing devices. Panels should be designed to include all knockouts and voids required for ductwork and junction boxes. They should also include conduit for the wiring of all such devices.



KEY PLAN, N.T.S.

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PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
EXTERIOR BUILDING ELEVATIONS

REV. NO.	DATE	REMARKS
1	11/8/05	100% REV.

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

AA4-03

211 N. Broadway
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St. Louis, MO 63102
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314 241-8125
FAX 314 241-8125



PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
ENTRY FOUNTAIN
PLAN, ELEVATION
AND SECTION

DATE	
REMARKS	
REV. NO.	

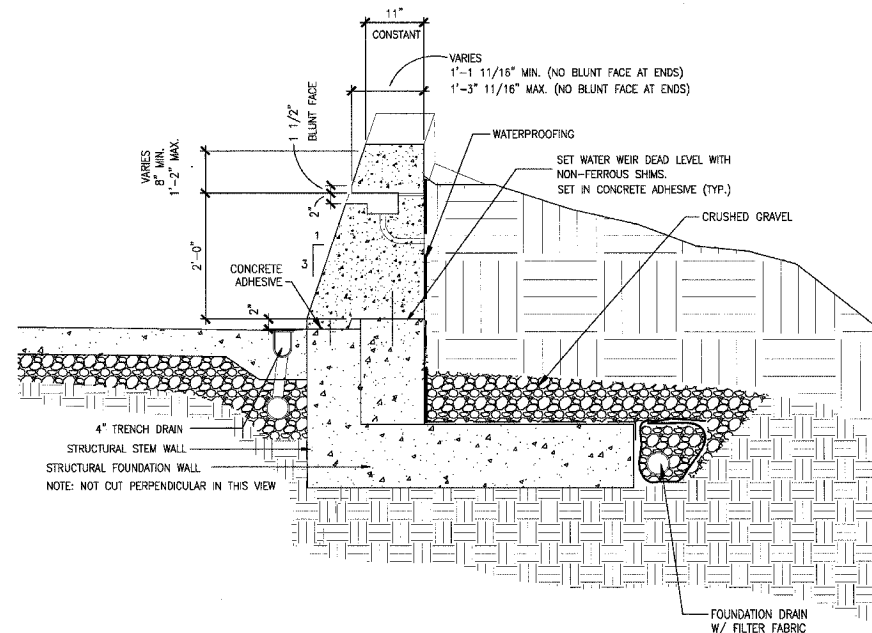
KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

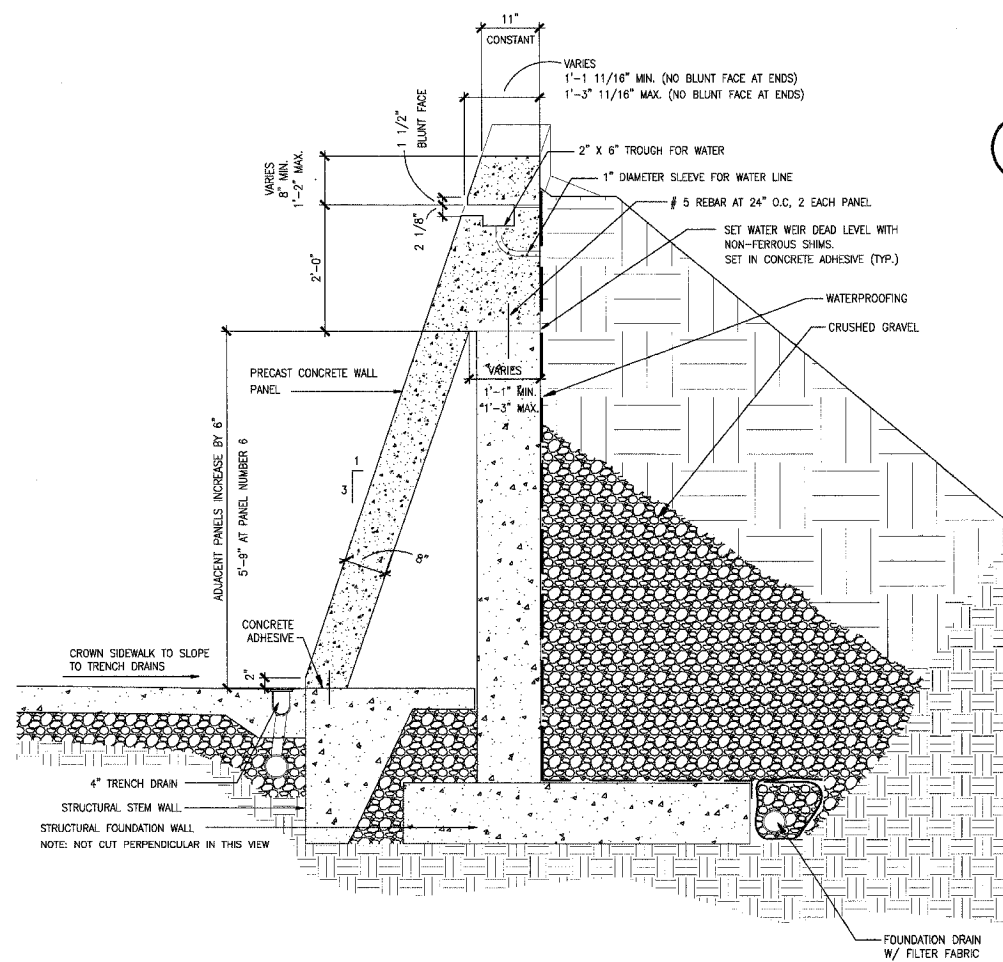
SHEET NO

AA4-04

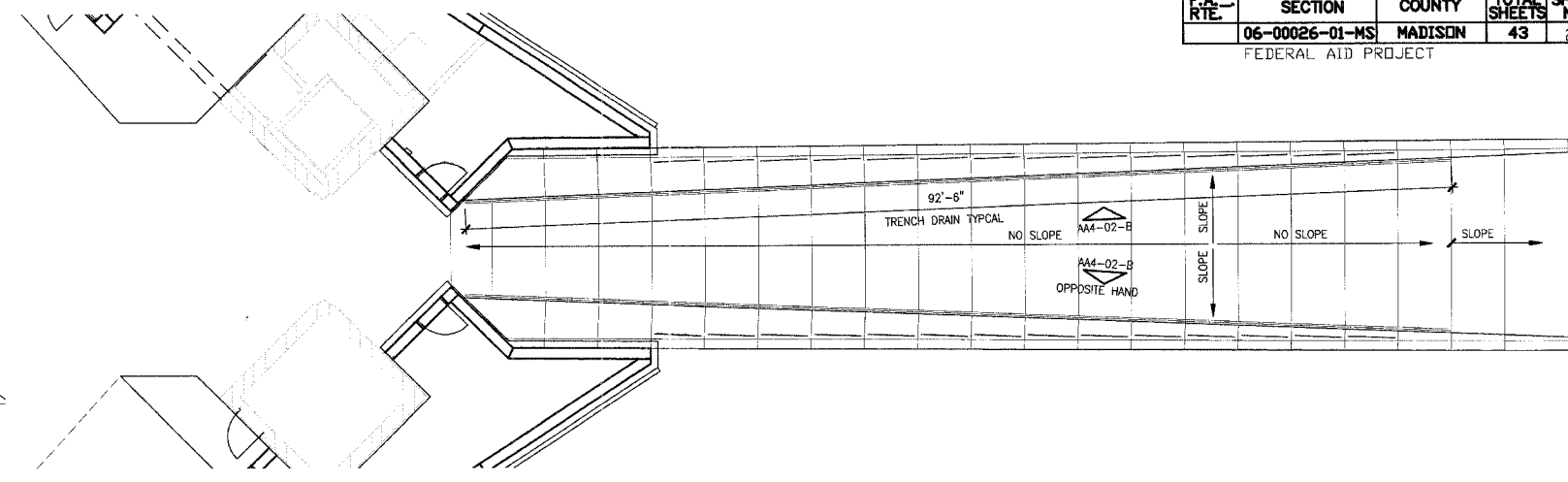
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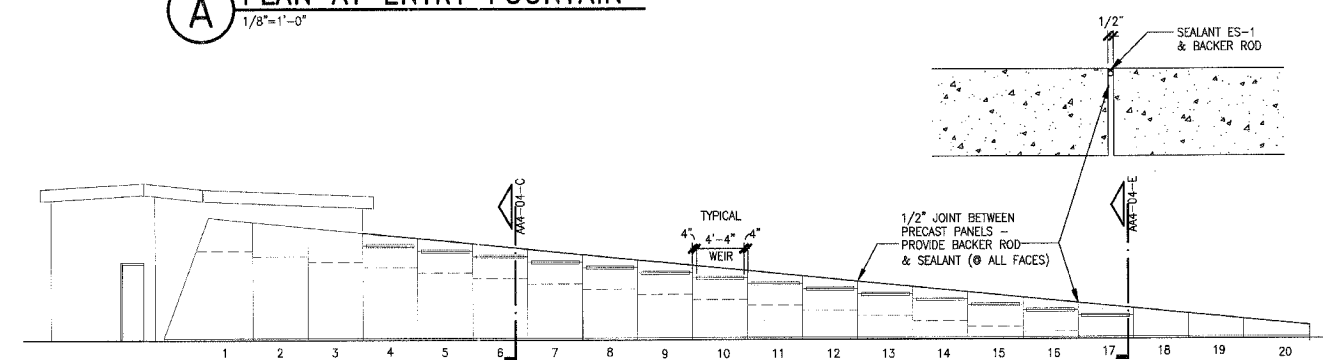
E SECTION, PANEL 17
3/4"=1'-0"



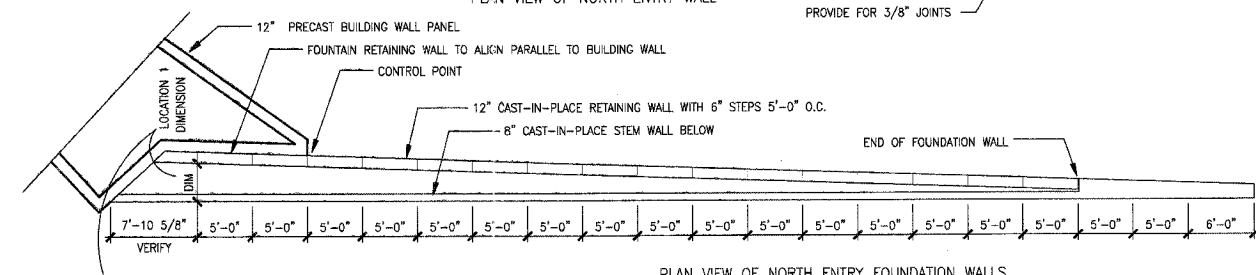
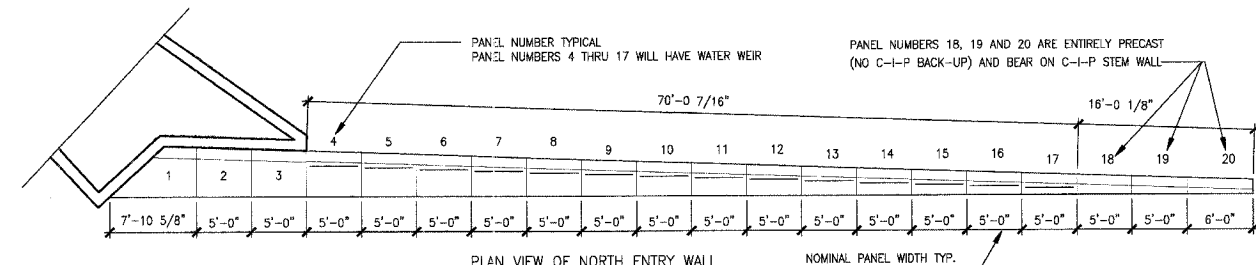
C SECTION AT PANEL 6
3/4"=1'-0"



A PLAN AT ENTRY FOUNTAIN
1/8"=1'-0"



B ELEVATION, NORTH FOUNTAIN AT ENTRY
1/8"=1'-0"

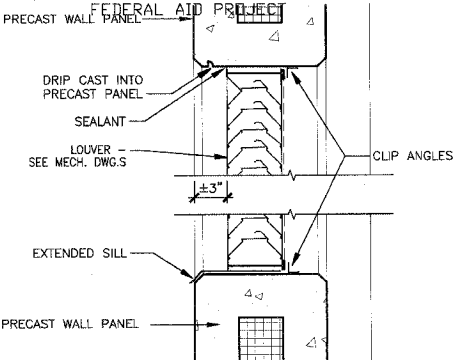


LOCATION NUMBER	FACE-OF-FOUNDATION-WALL TO FACE-OF-STEM-WALL DIMENSION (INCHES)	TOP OF FOUNDATION WALL FOOT OF PRECAST =0'-0" HEIGHT (INCHES)
1	42	98
2	40	92
3	38	86
4	36	80
5	34	74
6	32	68
7	30	62
8	28	56
9	26	50
10	24	44
11	22	38
12	20	32
13	18	26
14	16	20
15	14	14
16	12	8
17	10	2
18	STEM WALL	
19	STEM WALL	
20	STEM WALL	

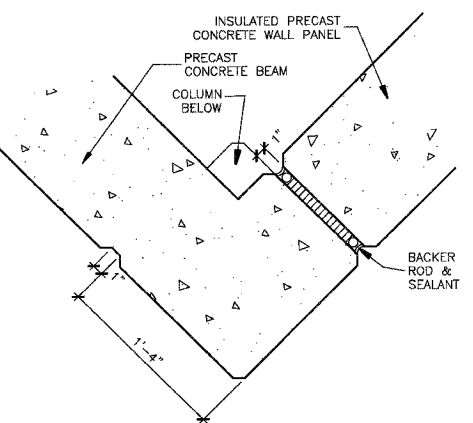
D FOUNTAIN LAYOUT DIMENSIONS
1/8"=1'-0"

U:\10-02048\CAD\PHASE-2A\B\PHASE2A\AA-04.DWG | 7/11/2005 11:44:47 PM | Xref's: TBA336CDL.BS-WATERWALL.BS-PLAN-2A | Images: none

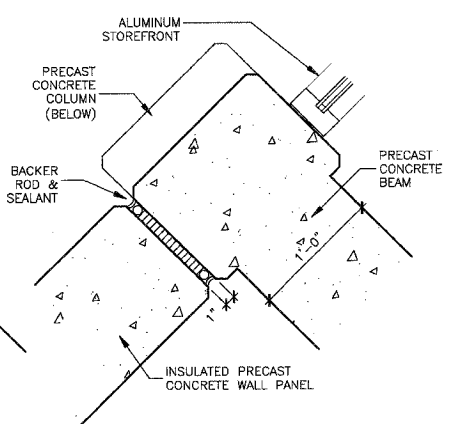
F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	21



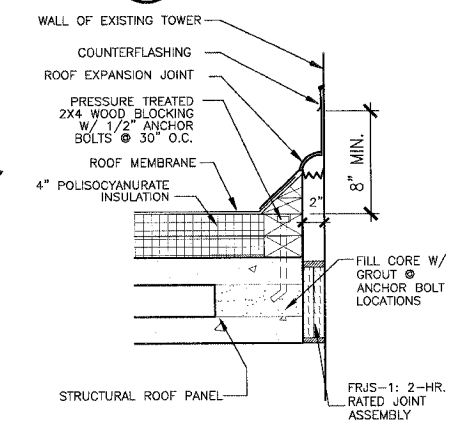
X LOUVER DETAIL
1-1/2"=1'-0"



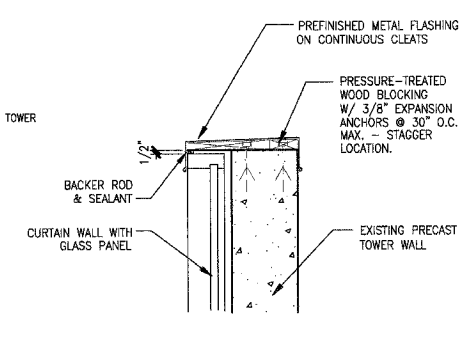
Y PLAN DETAIL
1-1/2"=1'-0"



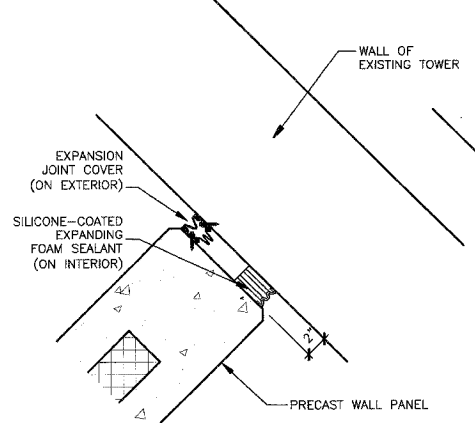
Z PLAN DETAIL
1-1/2"=1'-0"



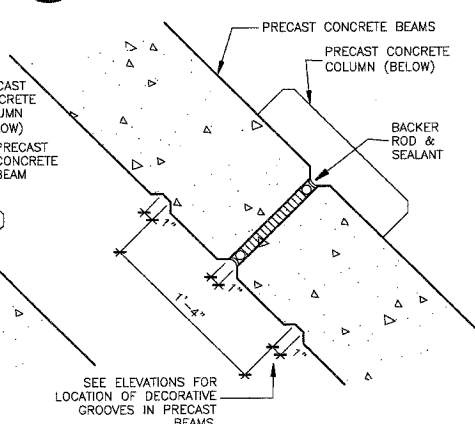
W RATED EXPANSION JOINT
1-1/2"=1'-0"



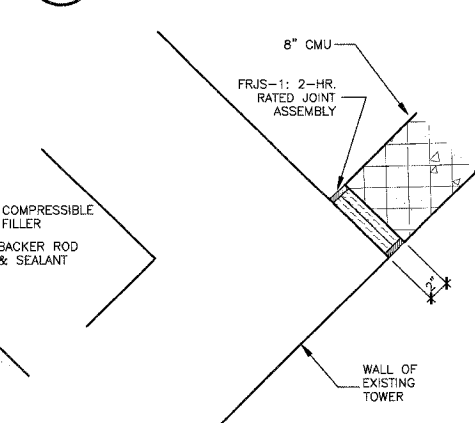
E CURTAIN WALL/PARAPET DTL
1"=1'-0"



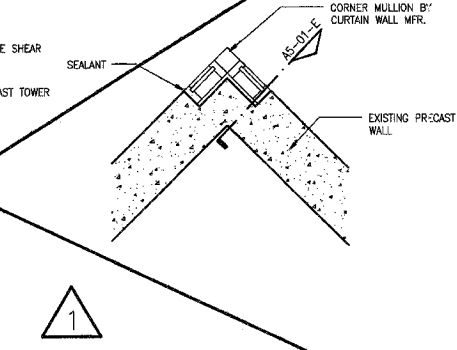
K EXPANSION JOINT
1-1/2"=1'-0"



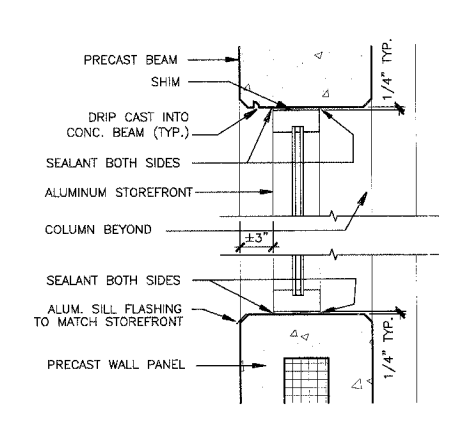
Q PLAN DETAIL
1-1/2"=1'-0"



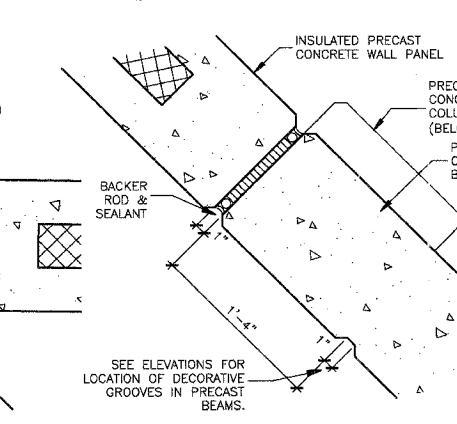
V RATED EXPANSION JOINT
1-1/2"=1'-0"



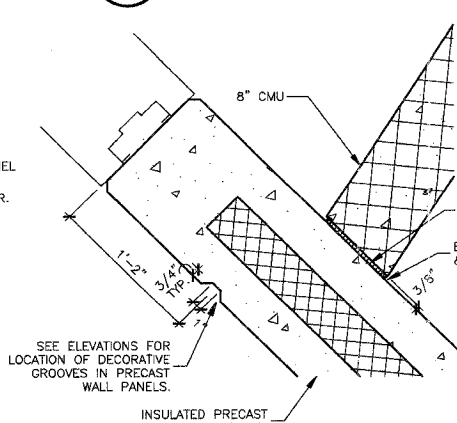
D CURTAIN WALL DETAIL
1/2"=1'-0"



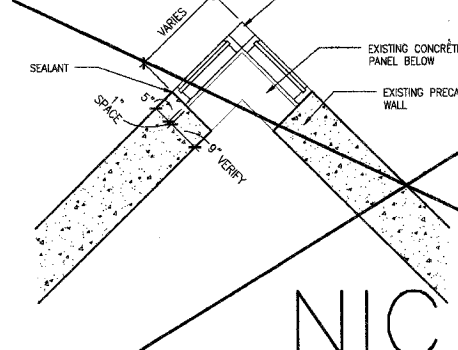
J WINDOW DETAIL
1-1/2"=1'-0"



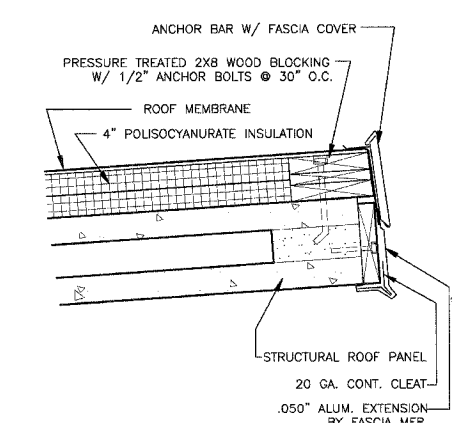
P PLAN DETAIL
1-1/2"=1'-0"



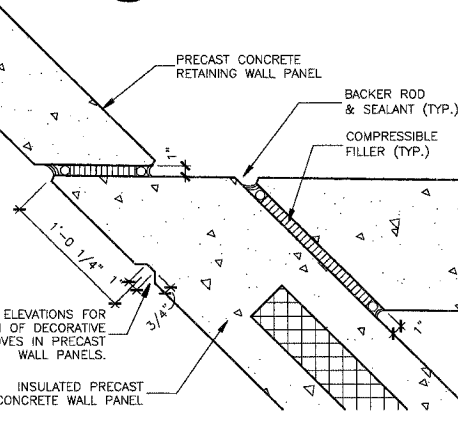
U PLAN DETAIL
1-1/2"=1'-0"



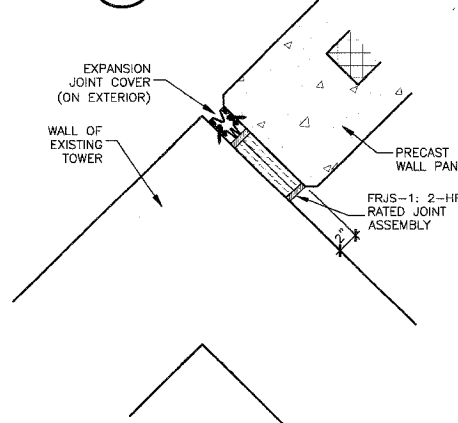
C CURTAIN WALL DTL
1/2"=1'-0"



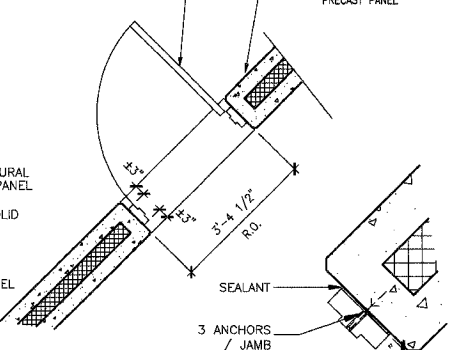
H ROOF EDGE
1-1/2"=1'-0"



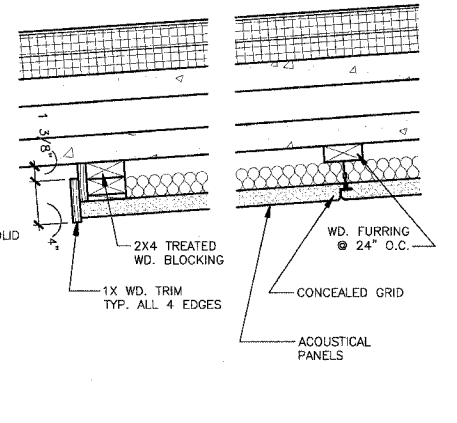
N PLAN DETAIL
1-1/2"=1'-0"



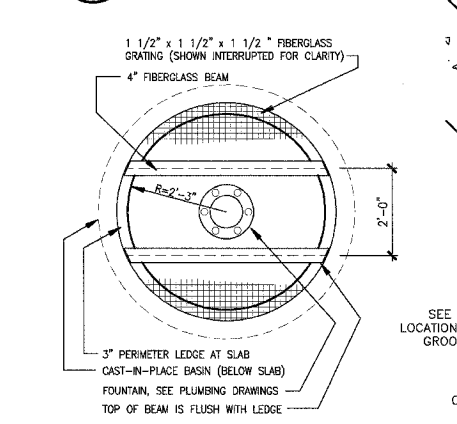
T RATED EXPANSION JOINT
1-1/2"=1'-0"



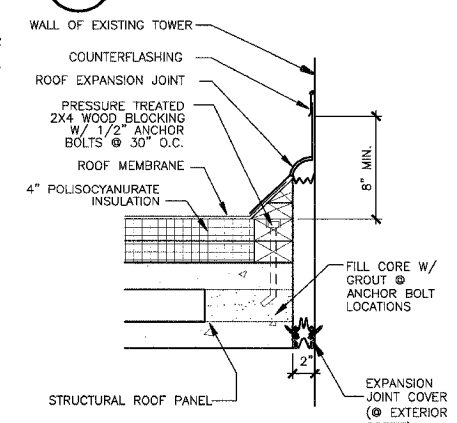
B DOOR DETAIL
1/2"=1'-0"



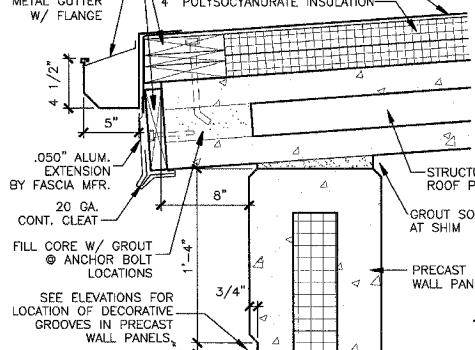
G ACOUSTICAL CEILING
1-1/2"=1'-0"



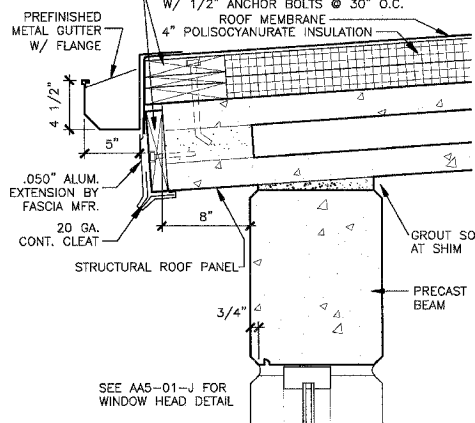
M FOUNTAIN PLAN
1/2"=1'-0"



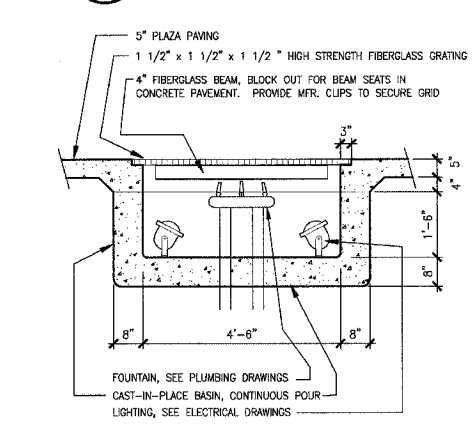
S EXPANSION JOINT
1-1/2"=1'-0"



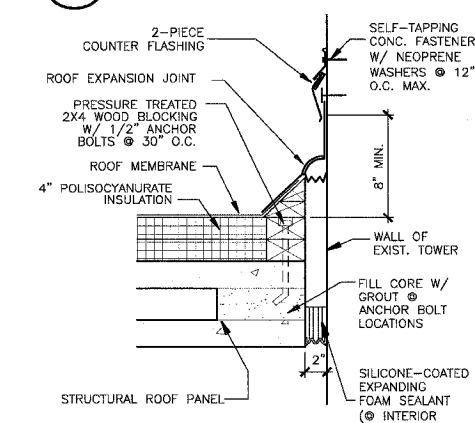
A ROOF EDGE
1-1/2"=1'-0"



F ROOF EDGE
1-1/2"=1'-0"



L FOUNTAIN SECTION
1/2"=1'-0"



R EXPANSION JOINT
1-1/2"=1'-0"

211 N. Broadway
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(314) 241-9123
FAX (314) 241-9123

KAI

PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
DETAILS

REV. NO.	DATE	REMARKS
1	11/9/06	
2		
3		
4		
5		

KENNEDY PROJECT NO
KAI# 10-02048

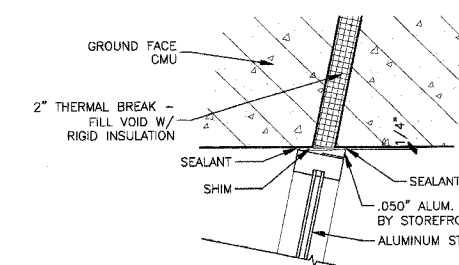
ISSUE DATE
12-JULY-05

SHEET NO
AA5-01

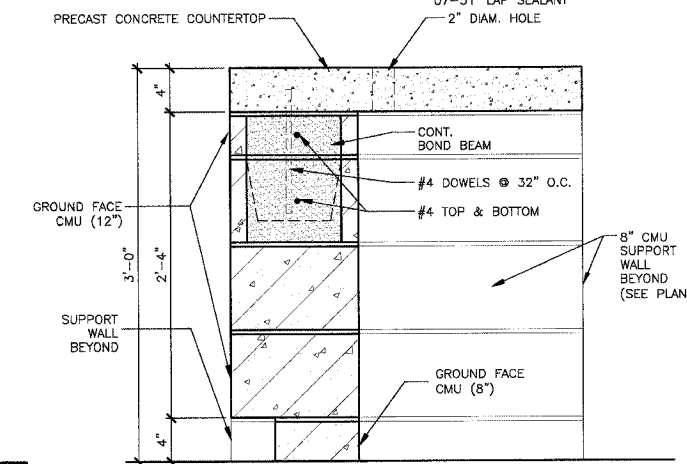
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00026-01-MS	MADISON		43	22

FEDERAL KEY PROJECT NOTES:

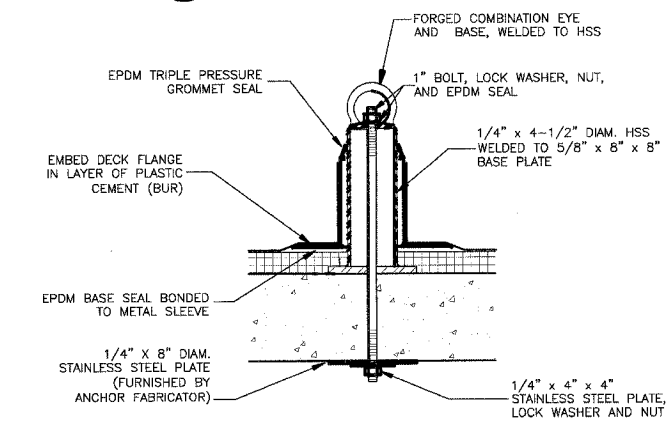
- 03-21 EXISTING PRECAST CONCRETE WALL
- 03-65 EXISTING PRECAST CONCRETE CONDUCTOR HEAD
- 05-54 #5 DOWELS
- 06-03 2 X TREATED WOOD BLOCKING
- 07-09 RIGID ROOF INSULATION
- 07-26 FLASHING
- 07-27 COUNTER FLASHING
- 07-28 EXTRUDED ALUMINUM COPING
- 07-37 ROOF HATCH
- 07-44 SEALANT
- 07-48 EPDM MEMBRANE
- 07-49 EPDM ROOFING
- 07-51 LAP SEALANT



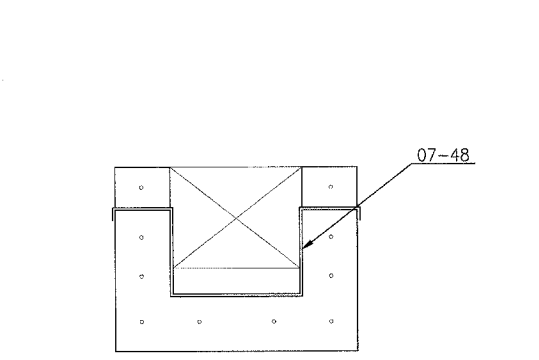
F PLAN DETAIL
1-1/2"=1'-0"
DETAIL BELOW COUNTER



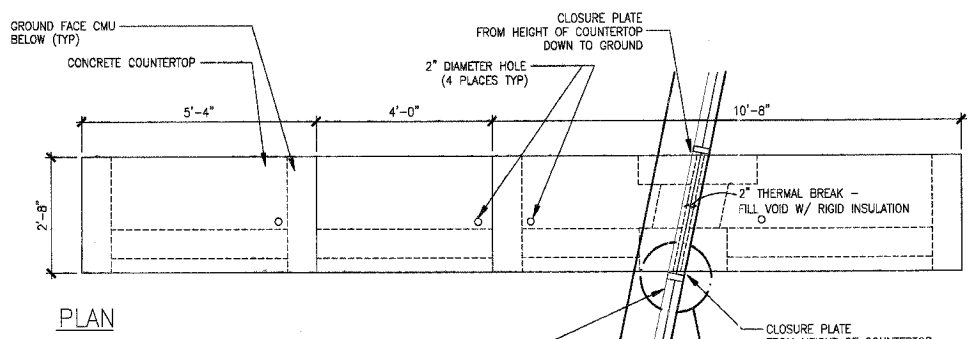
K SECTION THRU CONTROL DESK
1-1/2"=1'-0"



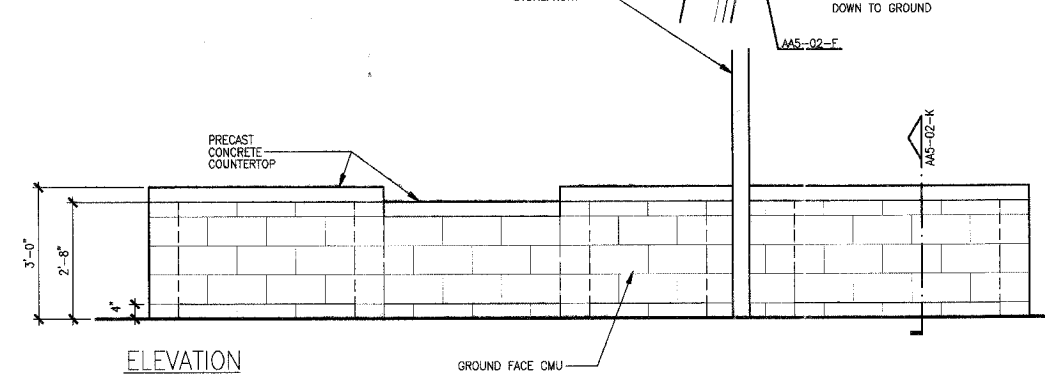
Q WINDOW WASHERS' ROOF ANCH
1-1/2"=1'-0"



V SCUPPER ELEVATION
1-1/2"=1'-0"

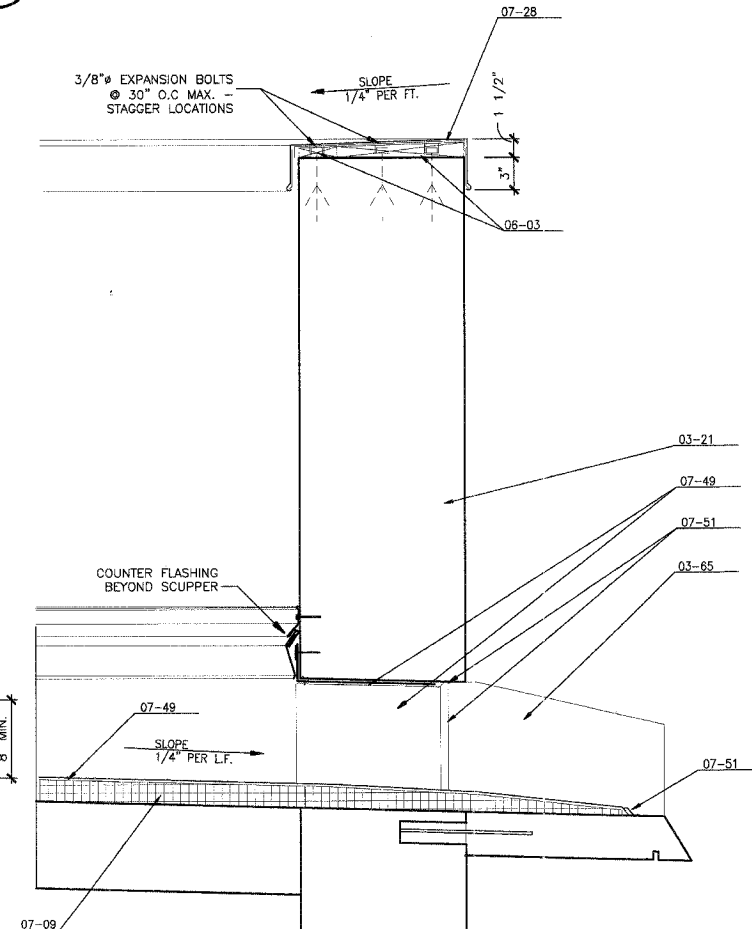


PLAN

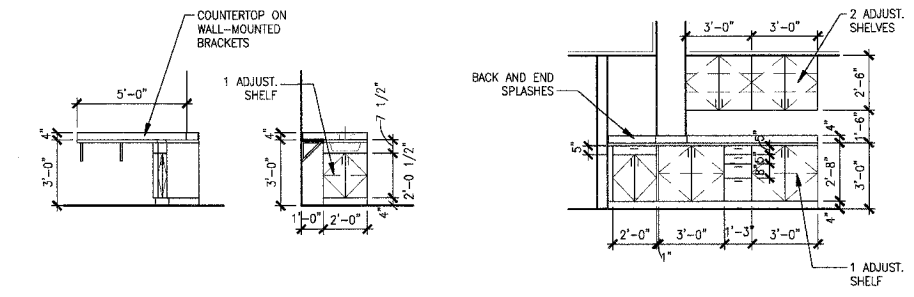


ELEVATION

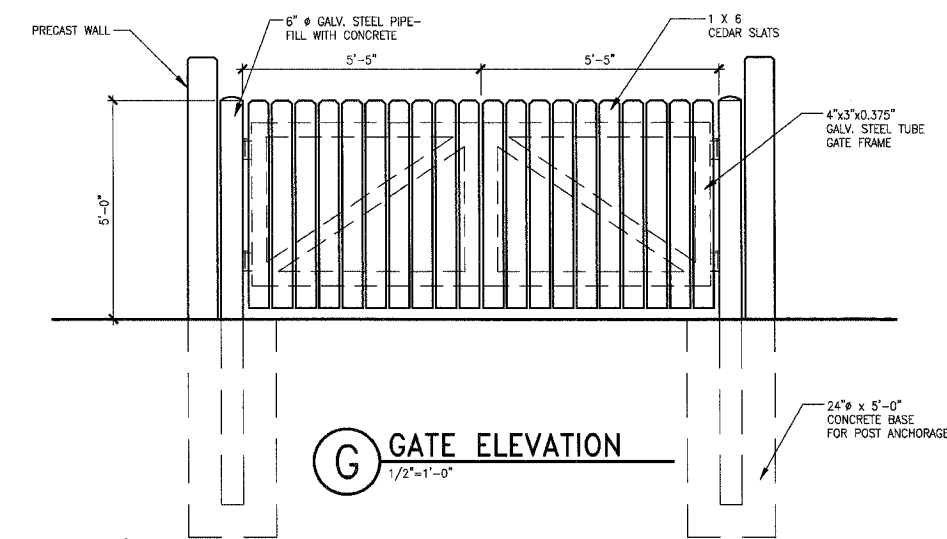
J COUNTER @ CONTROL DESK
1/2"=1'-0"



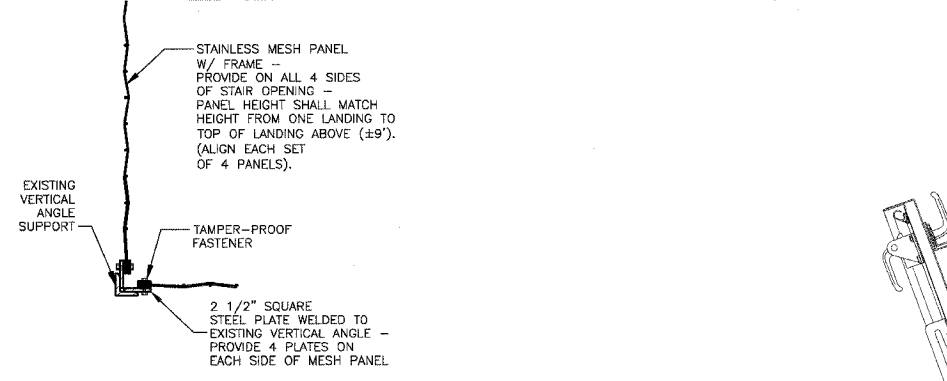
T SCUPPER / PARAPET DETAIL
1-1/2"=1'-0"



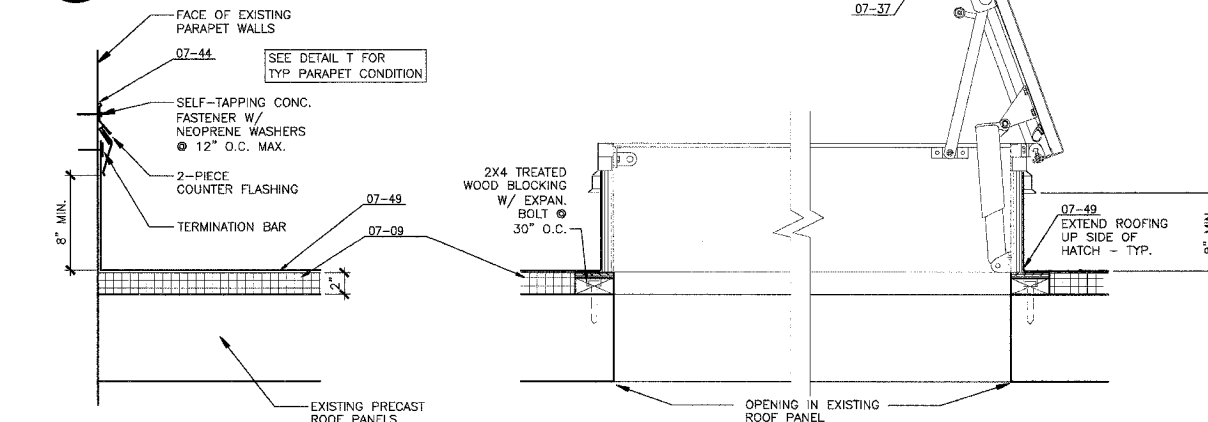
A ELEVATION @ VENDING 1/4"=1'-0"
B CABINETS @ CONTROL DESK 1/4"=1'-0"



G GATE ELEVATION
1/2"=1'-0"



L INFILL GUARD @ TOWER STAIR
1-1/2"=1'-0"



R ROOF DETAIL
1-1/2"=1'-0"

S ROOF HATCH DETAIL
1-1/2"=1'-0"

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KAI
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FAX 314-241-0105

PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE: DETAILS

DATE	REMARKS

KENNEDY PROJECT NO KAI# 10-02048
ISSUE DATE 12-JULY-05
SHEET NO AA5-02

FA RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-0026-01-MS	MADISON	43	23

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PHASE 2A
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VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
PLATFORM SAFETY
FENCE PLAN AND
DETAILS

REV. NO.	DATE	REMARKS
1	11/9/05	DDOT REV.

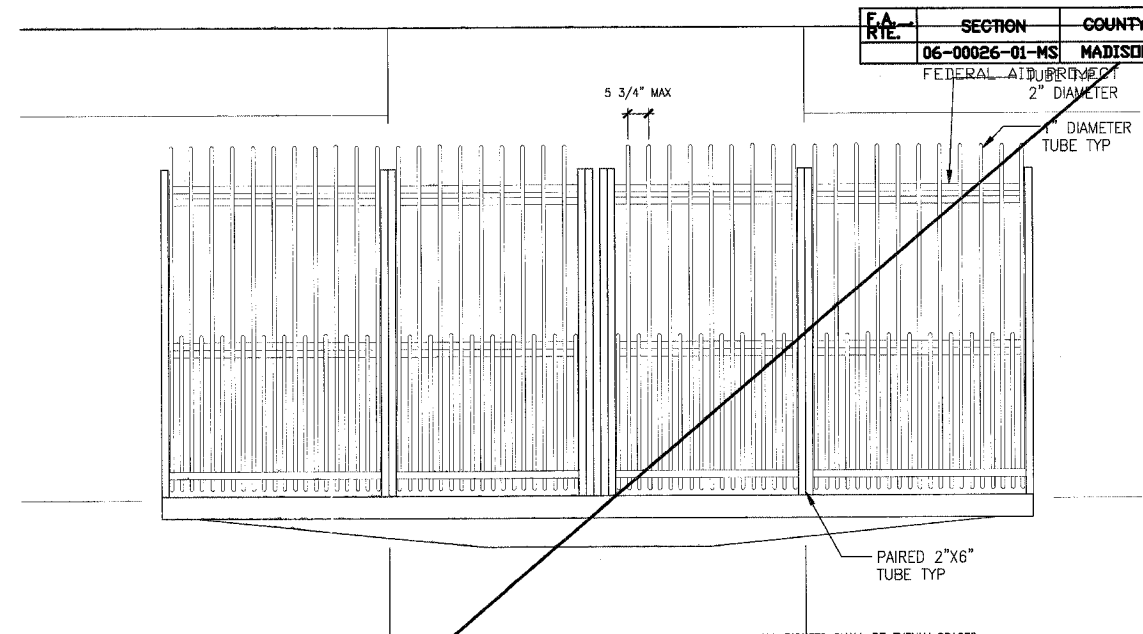
KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

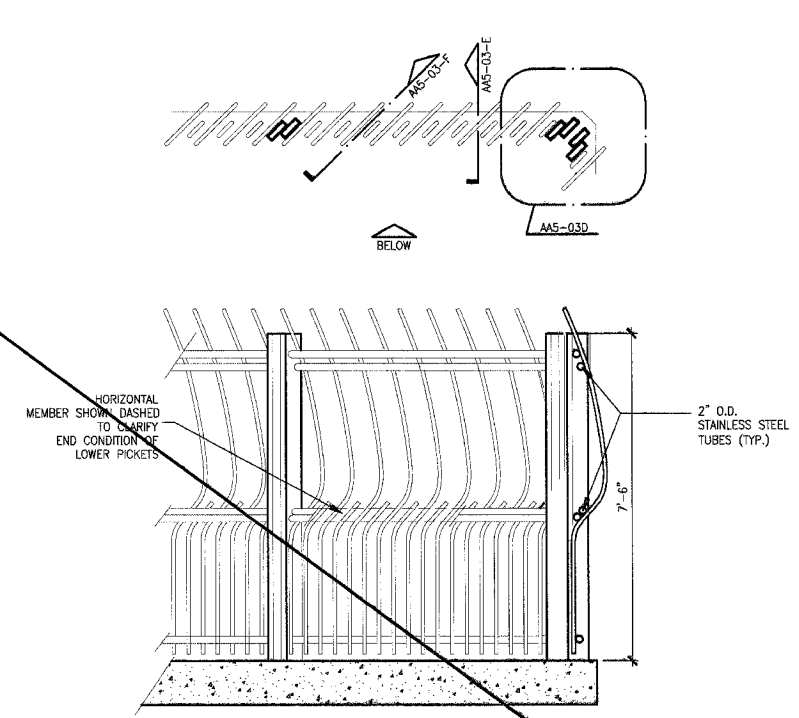
AA5-03

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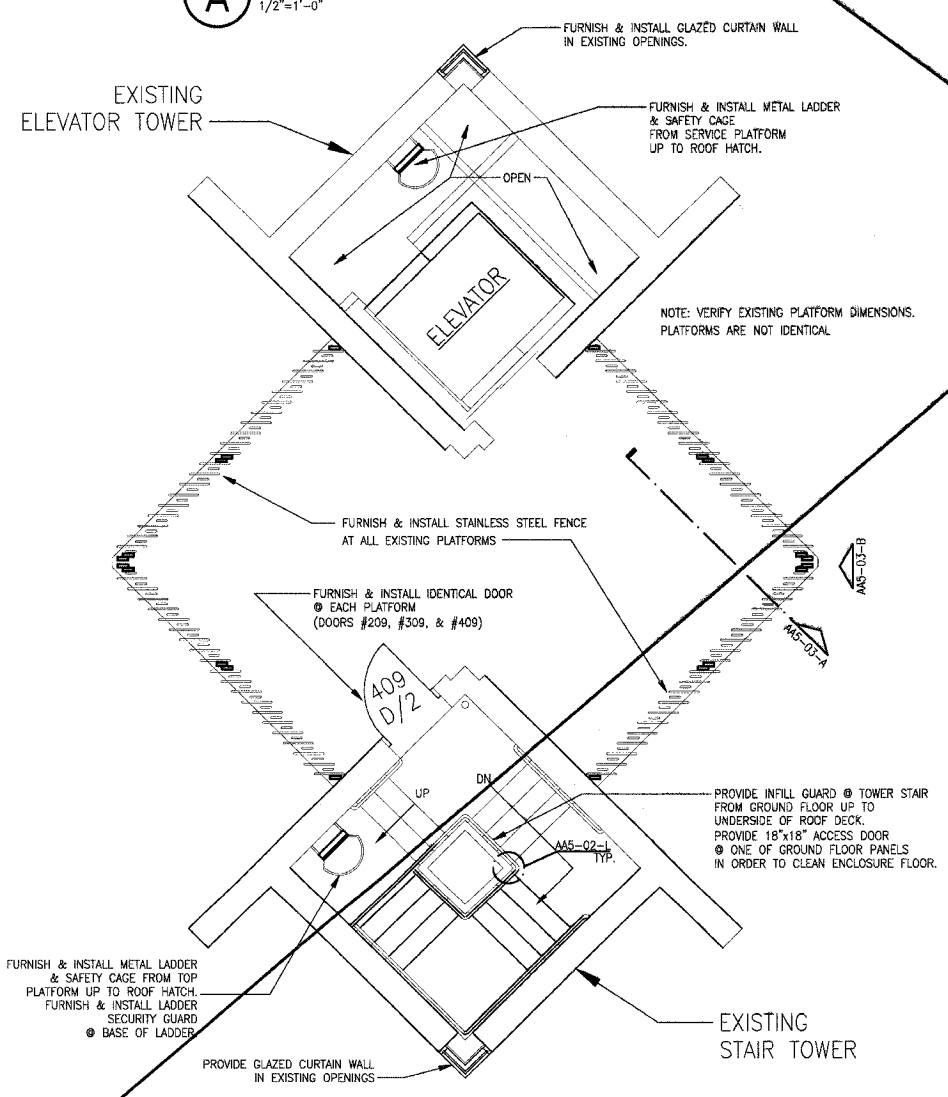


B THIRD PLATFORM EAST ELEVATION
1/2"=1'-0"

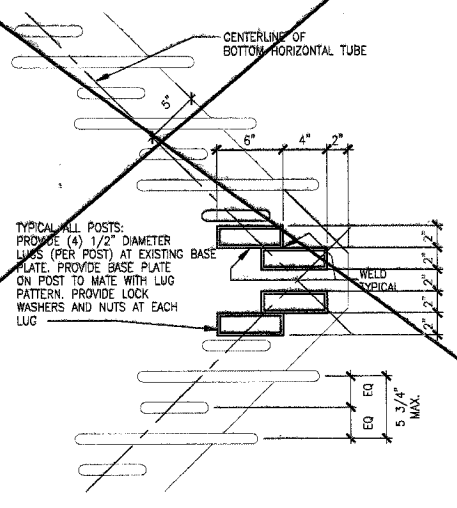
ALL PICKETS SHALL BE EVENLY SPACED
FIRST LEVEL AND SECOND LEVEL ARE SIMILAR
WEST ELEVATION OF ALL LEVELS ARE THE SAME AS EAST ELEV.



A PARTIAL FENCE PLAN AND ELEVATION
1/2"=1'-0"

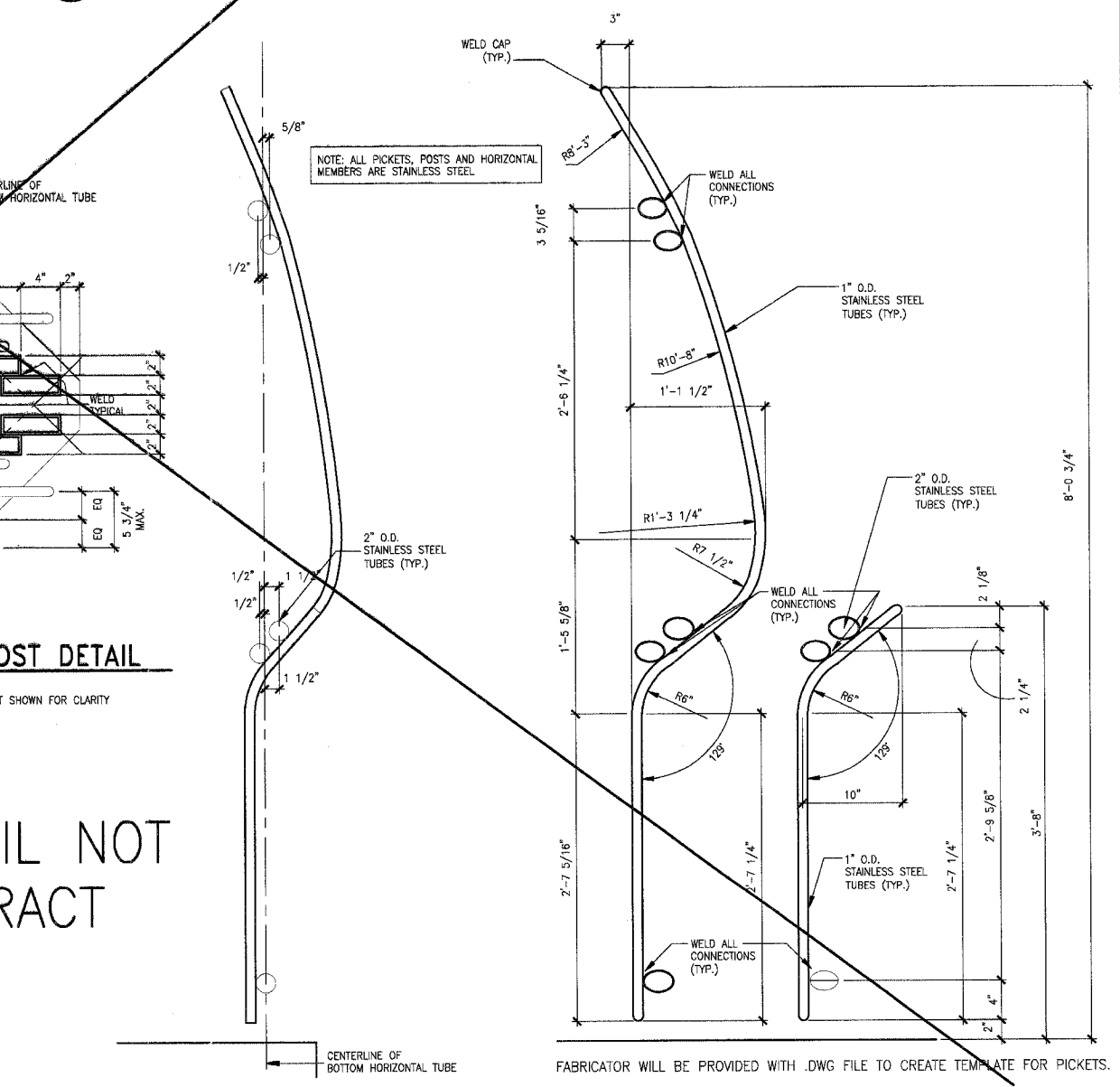


C EXISTING THIRD PLATFORM FLOOR PLAN
1/4"=1'-0"
FIRST LEVEL AND SECOND LEVEL SIMILAR



D CORNER POST DETAIL
1 1/2"=1'-0"
HORIZONTAL MEMBERS NOT SHOWN FOR CLARITY

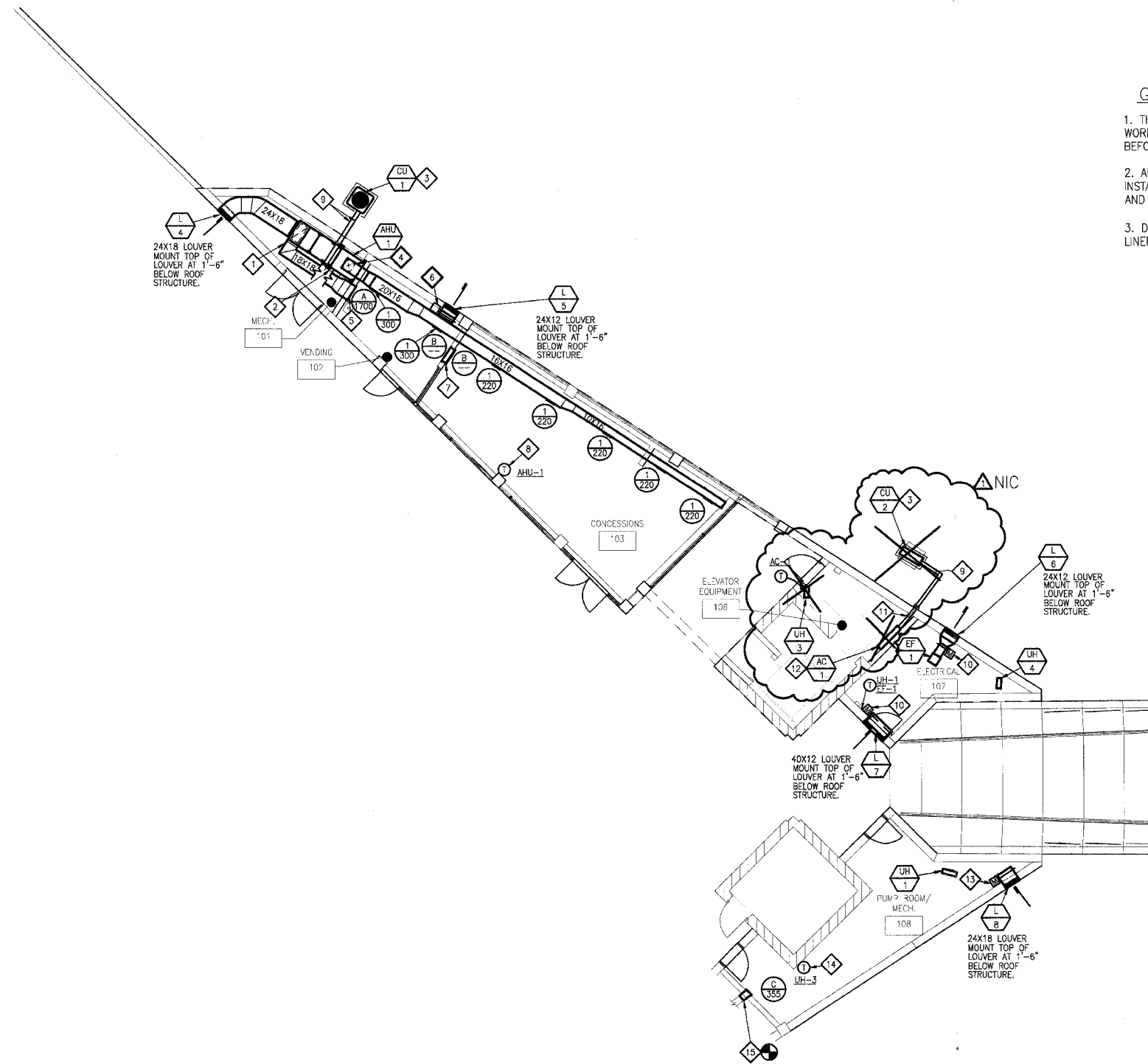
GUARDRAIL NOT IN CONTRACT



E PICKET ELEVATIONS
1 1/2"=1'-0"

F PICKET ELEVATIONS
1 1/2"=1'-0"

P:\2005\10-02048\BDDISC\PHASE-2A\AA5-03.DWG | 11/9/2005 6:16:59 PM | Xref: 102456DCL ES-PLATFORM | Incogen: none



GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, ALL WORK IS TO BE COORDINATED BETWEEN ALL TRADES BEFORE CONSTRUCTION.
2. ALL DUCTWORK, EQUIPMENT AND PIPING IS TO BE INSTALLED IN ACCORDANCE WITH ALL PERTINENT CODES AND SMACNA SEISMIC DESIGN REQUIREMENTS.
3. DUCT SIZES SHOWN ARE SHEETMETAL SIZES WITH 1" LINER.

KEYED NOTES:

- 1 SERVICE ACCESS FOR FILTER MAINTENANCE.
- 2 PROVIDE A 1" TYPE "L" COPPER CONDENSATE DRAIN PIPE AND EXTEND TO FLOOR DRAIN WITH A DOWNTURN 45° ELBOW. PROVIDE THREADED BRASS PLUG CLEANOUTS AT EACH CHANGE OF DIRECTION.
- 3 PROVIDE A 0'-4" THICK CONCRETE PAD THAT EXTENDS 0'-4" BEYOND EACH EDGE OF THE EQUIPMENT. SECURE CONDENSING UNIT TO PAD WITH STAINLESS STEEL CONCRETE ANCHORS AND SCREWS.
- 4 PROVIDE 90° ELBOW WITH TURNING VANES AND SIZE TO MATCH CONNECTION OF AHU-1.
- 5 MOUNT RETURN GRILLE AS HIGH AS DUCTWORK WILL ALLOW.
- 6 PROVIDE AN ADJUSTABLE WEIGHTED BAROMETRIC RELIEF DAMPER. ADJUST WEIGHTS TO MAINTAIN A SLIGHTLY POSITIVE BUILDING PRESSURIZATION.
- 7 MOUNT TOP OF TRANSFER GRILLES SO THAT THEY ARE LEVEL WITH GRILLE "B" ON OPPOSITE WALL.
- 8 PROVIDE A SEVEN DAY PROGRAMMABLE HEATING/COOLING THERMOSTAT WITH WHITE METAL LOCKABLE THERMOSTAT GUARD.
- 9 SUCTION AND LIQUID REFRIGERANT PIPING SIZED BY CONDENSING UNIT MANUFACTURER.
- 10 INTERLOCK DAMPER TO OPEN WITH ACTIVATION OF EF-1. PROVIDE AN 20 GAGE GALVANIZED PLENUM TO MOUNT DAMPER.
- 11 PROVIDE A 1" TYPE "L" COPPER CONDENSATE DRAIN PIPE AND EXTEND DOWN INTERIOR WALL AND PENETRATE AT 0'-6" ABOVE FINISHED GRADE AND TERMINATE WITH A 45° DOWNTURN ELBOW. PROVIDE THREADED BRASS PLUG CLEANOUTS AT EACH CHANGE OF DIRECTION.
- 12 MOUNT AC-1 AT AN ELEVATION THAT ALLOWS FOR PROPER CONDENSATE DRAINAGE AND MAINTENANCE.
- 13 INTERLOCK DAMPER TO OPEN WITH ACTIVATION OF EXISTING EXHAUST FAN IN JANITOR'S 112. PROVIDE AN 20 GAGE GALVANIZED PLENUM TO MOUNT DAMPER.
- 14 PROVIDE A LOW VOLTAGE HEATING ONLY THERMOSTAT WITH WHITE METAL LOCKABLE GUARD.
- 15 PROVIDE NEW OPENING WITH NEW DUCT CONNECTION TO EXISTING 10"x10" EXHAUST DUCT. EXTEND NEW DUCT THROUGH OPENING AND CONNECT TO NEW REGISTER, "C".

A MECHANICAL FLOOR PLAN
1/8" = 1'-0"
PLAN NORTH

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PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE
MECHANICAL FLOOR PLAN

REV. NO.	REMARKS	DATE
1	BOT SUBMISSION	11-08-05

KENNEDY PROJECT NO
KAI- 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

MA3-01

AIR HANDLING UNIT

MARK	AREA SERVED	MFR.	MODEL	SUPPLY FAN				OUTDOOR AIR		DX COOLING COIL CAPACITIES						ELECTRIC HEATING COIL CAPACITIES				ELECTRICAL V/PH/HZ	NOTES				
				NOM CFM	TSP "WC	ESP "WC	HP	CFM	DB 'F	WB 'F	SENS. MBH	TOT. MBH	EAT DB 'F	EAT WB 'F	LAT DB 'F	LAT WB 'F	AIR PD "WC	TOT. MBH	EAT DB 'F			LAT DB 'F	ELECTRICAL KW	V/PH/HZ	AIR PD "WC
AHU-1	CONCESSIONS/VENDING	CARRIER	39MN03	1700	2.17	1.00	3	MOD.	95	78	33.5	36.8	78	65	60	58	.56	58	56	88	17	208/3/60	.02	208/3/60	1 THRU 12

NOTES:
1.) DX COOLING COIL
2.) ELECTRIC HEATING COIL
3.) COIL ACCESS SECTION
4.) SUPPLY FAN SECTION
5.) ANGLE FILTER MIXING BOX WITH 2" CARBON FILTERS
6.) EXTENDED LUBRICATION LINES
7.) 2" SPRING ISOLATORS ON FAN
8.) 6" BASE RAIL (NEOPRENE PAD BETWEEN FLOOR AND RAIL)
9.) BELT GUARD
10.) FACTORY-MOUNTED STARTER AND DISCONNECT
11.) CO2 SENSOR MOUNTED IN RETURN AIR DUCT
12.) SEVEN DAY PROGRAMMABLE THERMOSTAT

ELECTRIC HEATER

MARK	AREA SERVED	MFR.	MODEL	TYPE	CFM H/L	KW	STEPS	MBH	ELECTRICAL		OPER. WT. LBS.	NOTES
									V/PH/HZ	FLA (MCA)		
UH-1	PUMP/MECH.	MARKEL	5100	WALL-MOUNT	400	10	1	34.1	208/3/60	20.8	55	1,2,3,4,5,6
UH-3	ELEV. EQUIP.	MARKEL	5100	WALL-MOUNT	400	3.3	1	11.5	208/3/60	6.9	30	1,2,3,4,5,6
UH-4	ELECT.	MARKEL	5100	WALL-MOUNT	400	3.3	1	11.5	208/3/60	6.9	30	1,2,3,4,5,6

NOTES:
1.) 3-POLE CIRCUIT BREAKER/DISCONNECT
2.) WALL BRACKET WITH DUST SHIELD
3.) OSHA FAN GUARD
4.) LOW VOLTAGE THERMOSTAT
5.) TRANSFORMER AND CONTACTOR
6.) STRATIFICATION THERMOSTAT

ELEVATOR ROOM UNIT

MARK	AREA SERVED	MFR.	MODEL	FAN		COOLING CAPACITIES			ELEC. REHEAT		ELECTRICAL		OPER. WT. LBS.	NOTES		
				NOM CFM	ESP "WC	SENS. MBH	TOT. MBH	EAT DB 'F	REFRIG. BTU/H	FAN HP	V/PH/HZ	INDOOR FLA				
AC-1	ELEVATOR EQUIPMENT	CARRIER	388NE018	726	-	-	10.6	8.8	8.7	R-22	18,000	1/10	208/1/60	.4	27.5	1,2

NOTES:
1.) MICROPROCESSOR CONTROL/THERMOSTAT
2.) REFRIGERANT LINE SET SIZED BY MANUFACTURER

EXHAUST FAN

MARK	AREA SERVED	MFR.	MODEL	TYPE	CFM	E.S.P. (" WC)	RPM	DRIVE	SONES	ELECTRICAL		OPER. WT. LBS.	NOTES	
										HP	V/PH/HZ			FLA (MCA)
EF-1	ELECTRICAL	COOK	60SQN-B	ILC	175	.25	1754	BELT	9.4	1/6	115/1/60	4.4	145	1,2,3,4,5,6,8,10,12,13

NOTES:
1.) PRE-WIRED DISCONNECT SWITCH
2.) EXTENDED LUBRICATION LINES
3.) THERMAL OVERLOAD MOTOR
4.) SPRING VIBRATION ISOLATION HANGERS
5.) OSHA GUARD/MOTOR COVER
6.) THERMOSTATICALLY CONTROLLED
7.) 115V MOTORIZED DAMPER
8.) FLANGED OUTLET
9.) OUTLET COMPRESSION FLANGE
10.) INLET GUARD
11.) ILC - INLINE CENTRIFUGAL EXHAUST OR SUPPLY FAN

NOTE: FANS SELECTED BASED UPON A MEDIUM DRIVE LOSS FOR BELT DRIVEN MODELS. FANS ALSO SELECTED AT AN ALTITUDE OF 496 FT AND 70F.

AIR COOLED CONDENSING UNIT

MARK	UNIT SERVED	MFR.	MODEL	COOLING		O.A. TEMP.		COMPRESSOR		CONDENSER		UNIT SEER	REFR. R-	ELECTRICAL		OPER. WT. LBS.	NOTES
				CAP. MBH	CAP. MBH %	DES. AMB 'F	MIN. AMB 'F	QTY. TONS EACH	QTY. CKTS	QTY. FANS	HP EACH			V/PH/HZ	FLA (MCA)		
CU-1	AHU-1	CARRIER	388R036	36	-	95	0	1	3	1	1/5	12	22	208/3/60	(20)	186	1,2,3,4,5,6,7,8,9,10,11
CU-2	AG-1	CARRIER	388R010	10	-	95	0	1	1.6	1	1/4	10	22	208/1/60	(11)	157	3,9

NOTES:
1.) BALL-BEARING CONDENSER FAN MOTOR
2.) START CAPACITOR AND RELAY
3.) CRANKCASE HEATER
4.) ANTI-SHORT CYCLE TIMER
5.) EVAPORATOR FREEZE STAT
6.) SUCTION AND LIQUID LINE FILTER DRIER(S)
7.) HIGH PRESSURE CUT-OUT
8.) LOW PRESSURE CUT-OUT
9.) FAN SPEED CONTROL FOR LOW AMB. OPERATION
10.) THERMOSTATIC EXPANSION VALVE
11.) WINTER START CONTROLLER

H.V.A.C. DAMPER SPECIFICATIONS

MANUFACTURER	RUSKIN	RUSKIN	RUSKIN	RUSKIN	RUSKIN
MODEL	MD25	MD35	CD60	CD50	CD102
DAMPER TYPE	BALANCING OVER 12"	BALANCING OVER 12"	CONTROL	CONTROL	CONTROL
FUNCTION	BALANCING 12"H DUCT AND UNDER	BALANCING 13"H DUCT AND OVER	RETURN AIR	OUTSIDE AIR INTAKE	FAN DISCHARGE
SHAPE	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR
MAX. PRESSURE ("WG)	2" (36"W)	2" (36"W)	6.2" (48"W)	6.2"	12.0"
MAX. VELOCITY (FPM)	1500	1500	4000	4000	4000
MAX. PD @ MAX VELOCITY (24X24, 24"DIA)	0.05"WG	0.05"WG	0.03"WG	0.02"WG	0.01"WG
LEAKAGE @ 1"WG (CFM/SQ.FT.)	-	80@1.0"WG	2.0@1.0"WG	2.0@1.0"WG	8.5@1.0"WG
BLADE MATERIAL	GALV. STEEL	GALV. STEEL	GALV. STEEL	ALUMINUM	ALUMINUM
BLADE CONSTRUCTION	8" WIDE 16 GAGE REINFORCED	8" WIDE 16 GAGE REINFORCED	14 GAGE ROLL FORMED	6" WIDE 6063-T5 EXTRUDED	0.080 6063-T5 EXTRUDED
BLADE TYPE	SINGLE SKIN	SINGLE SKIN	AIRFOIL	AIRFOIL	AIRFOIL
BLADE SEAL MATERIAL	NONE	NONE	NEOPRENE	NEOPRENE	SILICONE RUBBER
FRAME MATERIAL	GALV. STEEL	GALV. STEEL	GALV. STEEL	ALUMINUM	GALV. STEEL
FRAME CONSTRUCTION	5"x1" 16 GAGE	5"x1" 16 GAGE	16 GAGE HAT CHANNEL	5"x1" 0.125" EXTRUDED	10"x2" 12 GA. STEEL CHANNEL
AXLE MATERIAL	STEEL	STEEL	PLATED STEEL	PLATED STEEL	PLATED STEEL
AXLE DIAMETER	3/8" SQUARE	3/8" SQUARE	1/2"	1/2"	3/4"
BEARING MATERIAL (TYPE)	SYNTHETIC	SYNTHETIC	STAINLESS STEEL	SYNTHETIC	STAINLESS STEEL
NOTES	-	-	-	-	-

AIR DEVICE

PLAN MARK	SUPPLY DIFFUSERS								EXHAUST / RETURN / TRANSFER GRILLES										
	MANUFACTURER & MODEL NO.	NECK SIZE	FACE SIZE	MOUNT	MATERIAL	ACCESSORIES	FINISH	TYPE	NOTES	MANUFACTURER MODEL NO.	NECK SIZE	FACE SIZE	MOUNT	MATERIAL	ACCESSORIES	FINISH	TYPE	NOTES	
1	TITUS 300FS	12X10	14X12	DUCT SIDEWALL	AL	VC	BWE	DD		A	TITUS 350FL	24X24	-	DRYWALL SIDEWALL	AL	VC	BWE	FAB	
										B	TITUS 350FL	24X20	-	DRYWALL SIDEWALL	AL	-	BWE	FAB	
										C	TITUS 350FL	10X10	-	DRYWALL SIDEWALL	AL	VC	BWE	FAB	

MATERIAL: AL - ALUMINUM
FINISH: BWE - BAKED WHITE ENAMEL
ACCESSORIES: VC - VOLUME CONTROL DAMPER
TYPE: FAB - FIXED ANGLE BLADE, DD - DOUBLE DEFLECTION

LOUVER

MARK	MFR.	MODEL	SIZE HxWxD	FUNCTION	MATERIAL			FREE AREA VELOCITY	EFFECTIVENESS RATIO %	STATIC PRESS. DROP	NOTES
					FRAME	BLADE	FINISH				
L-4	RUSKIN	EME520DD	18X24X5	INTAKE	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.04	1
L-5	RUSKIN	EME520DD	12X24X5	EXHAUST	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.05	1
L-6	RUSKIN	EME520DD	12X24X5	EXHAUST	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.05	1
L-7	RUSKIN	EME520DD	12X40X5	INTAKE	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.04	1
L-8	RUSKIN	EME520DD	18X24X5	INTAKE	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.04	1

NOTES:
1.) INSECT SCREEN

PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
MECHANICAL SCHEDULES

DATE	11-08-05
REVISIONS	
REV. NO.	

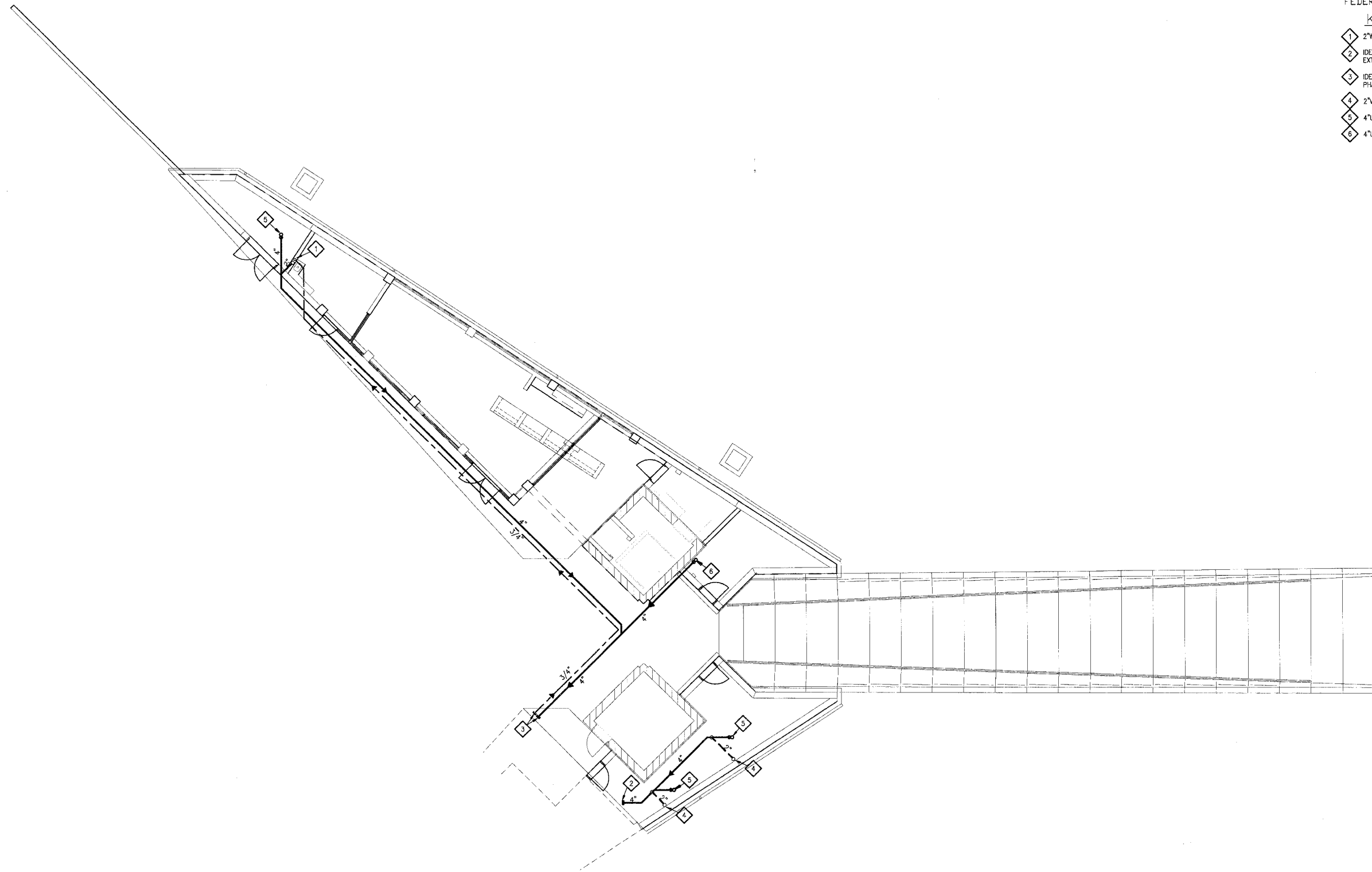
KENNEDY PROJECT NO
KAI# 10-02048
ISSUE DATE
12-JULY-05
SHEET NO
MA3-02

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	26

FEDERAL AID PROJECT

KEYED NOTES:

- 1 2" W UP
- 2 IDENTIFY SANITARY CONNECTION FROM PHASE 2B AND EXTEND AS SHOWN.
- 3 IDENTIFY 3/4" WATER, 4" SANITARY PIPING CAPPED DURING PHASE 2B, EXTEND AS SHOWN.
- 4 2" V UP
- 5 4" UP TO, ED-2
- 6 4" UP TO, ED-3



A BELOW FLOOR PLAN-PLUMBING
1/8"=1'-0"

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PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
**BELOW FLOOR PLAN-
PLUMBING**

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

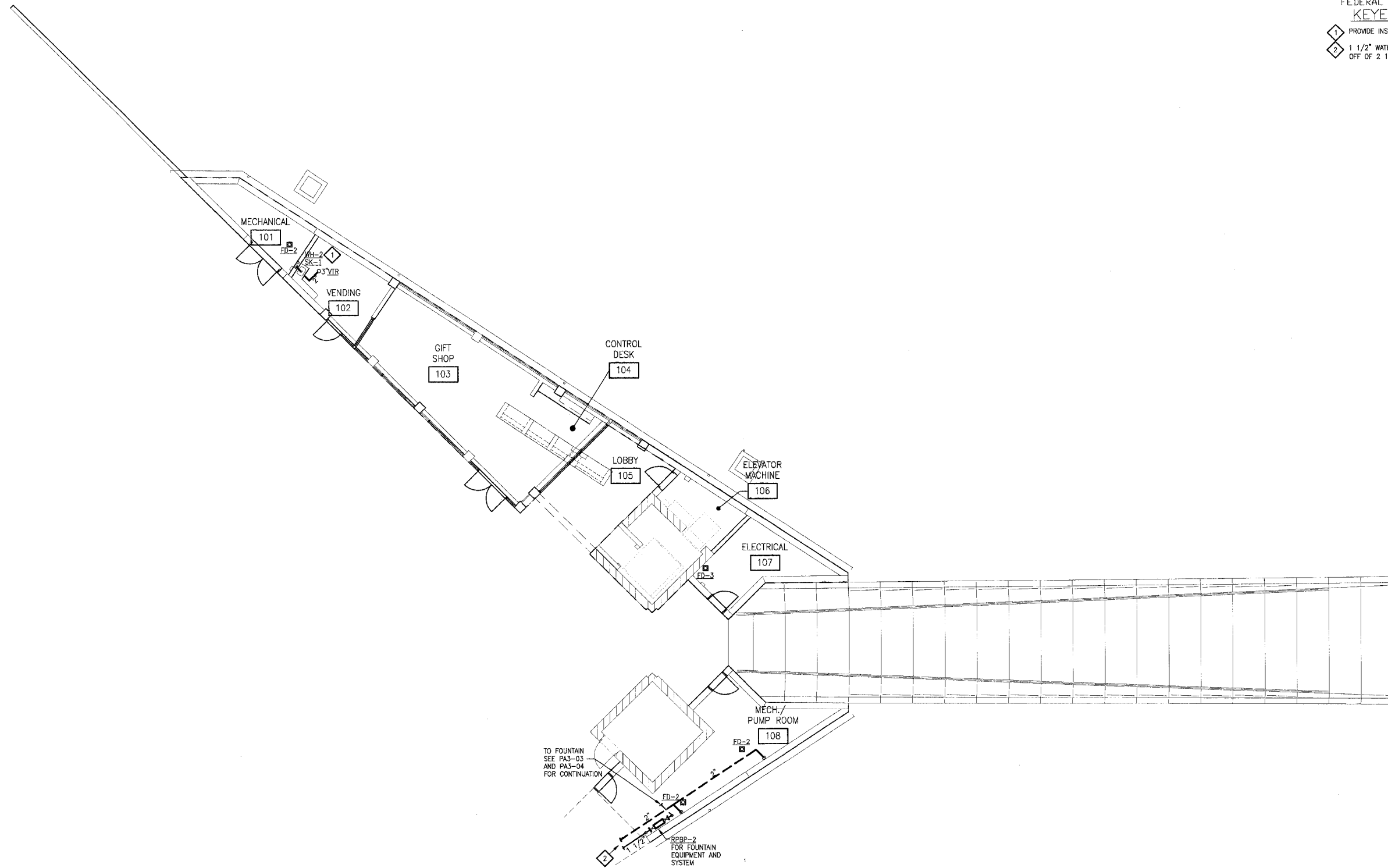
SHEET NO

PA3-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	27

FEDERAL AID PROJECT
KEYED NOTES:

- 1 PROVIDE INSTANTANEOUS WATER FOR SK-1.
- 2 1 1/2" WATER TO MAIN SERVICE IN JANITOR'S ROOM OFF OF 2 1/2".



A FIRST FLOOR PLAN-PLUMBING
1/8"=1'-0"

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PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
**FIRST FLOOR PLAN-
PLUMBING**

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

PA3-02

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	28

FEDERAL AID PROJECT
KEYED NOTES:

- 1 SEE FOUNTAIN DETAILS ON SHEET PA3-04.
 - 2 COMPASS FOUNTAIN/WATERFALL FOUNTAIN CONTROLLER SHALL BE UL LISTED, NEMA 3R, WITH SINGLE POINT ELECTRICAL CONNECTION. CONTROLLER SHALL INCLUDE THE FOLLOWING:
 - *HAND-OFF-AUTO SWITCH (ONE FOR EACH FILTER/PUMP ASSEMBLY (FP-1, FP-2))
 - *TIMER FOR EACH SYSTEM
 - *INTERNAL BREAKERS
 - *LOW VOLTAGE TRANSFORMER FOR CONTROLS
 - *MICRO PROCESSOR FOR OPERATION
- SEE ELECTRICAL FOR SERVICE FEEDER AND PANEL.

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PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE
**FIRST FLOOR PLAN-
FOUNTAIN PIPING-
PLUMBING**

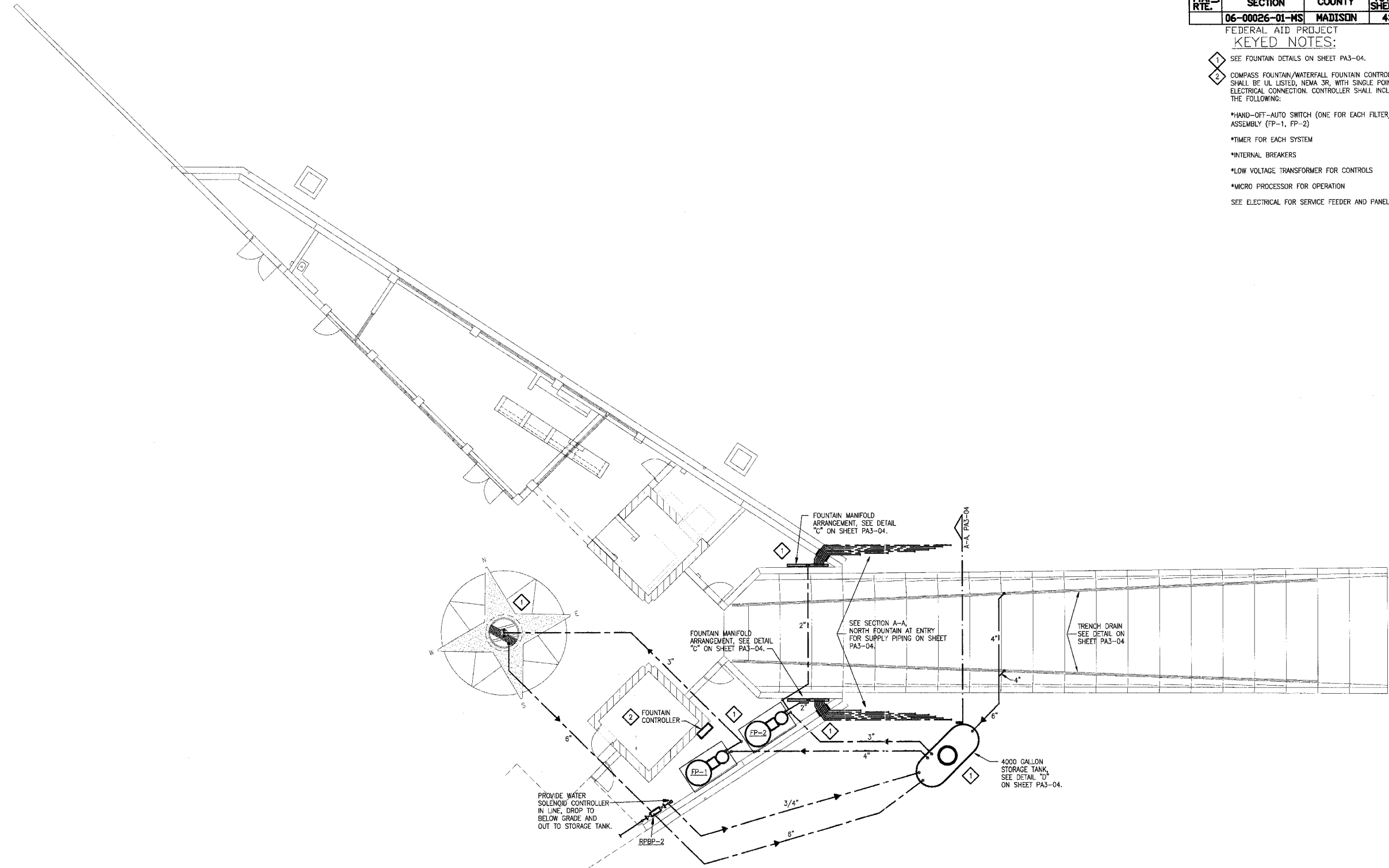
REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

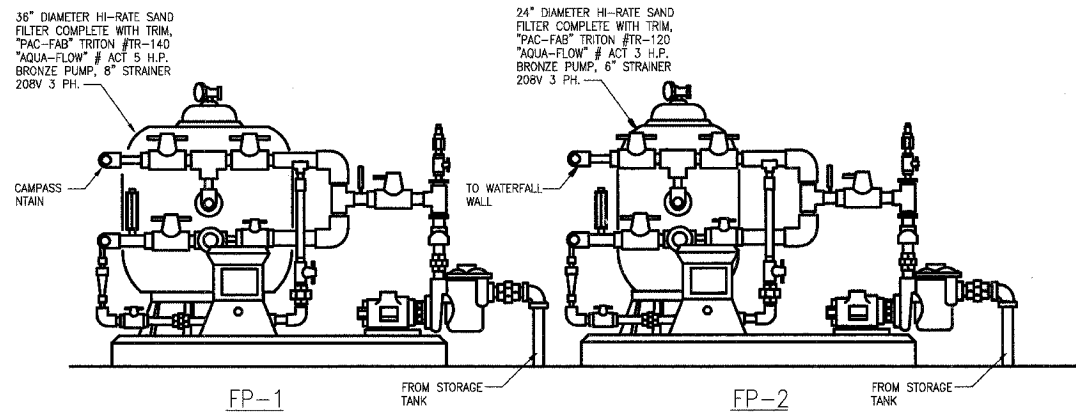
SHEET NO
PA3-03

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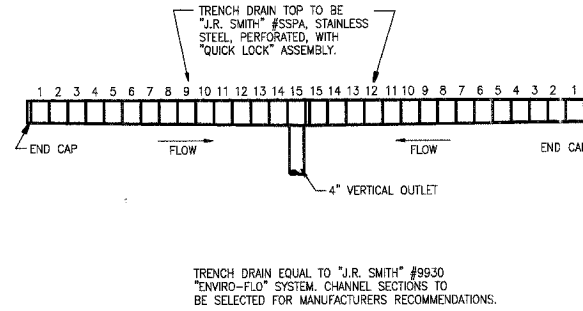


A FIRST FLOOR PLAN-FOUNTAIN PIPING- PLUMBING
1/8"=1'-0"

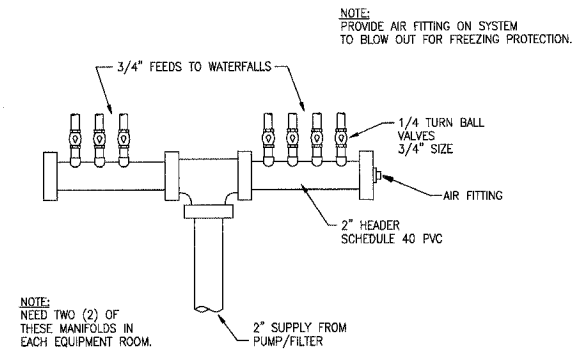
FEDERAL AID PROJECT



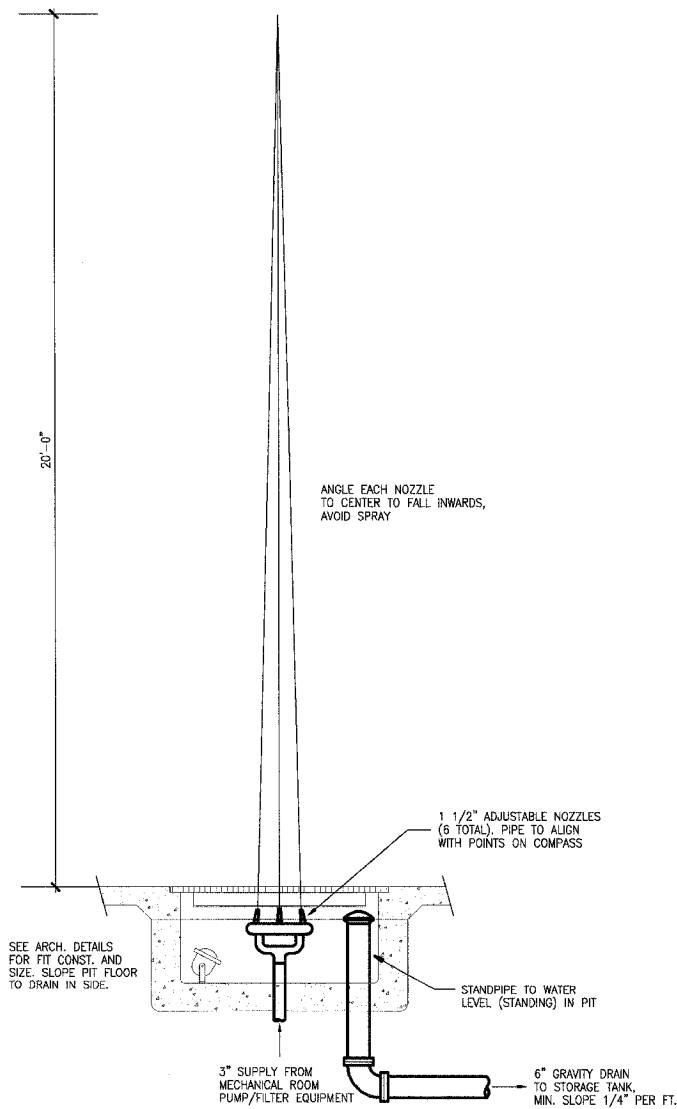
A FILTER PUMP PIPING ARRANGEMENT
NOT TO SCALE



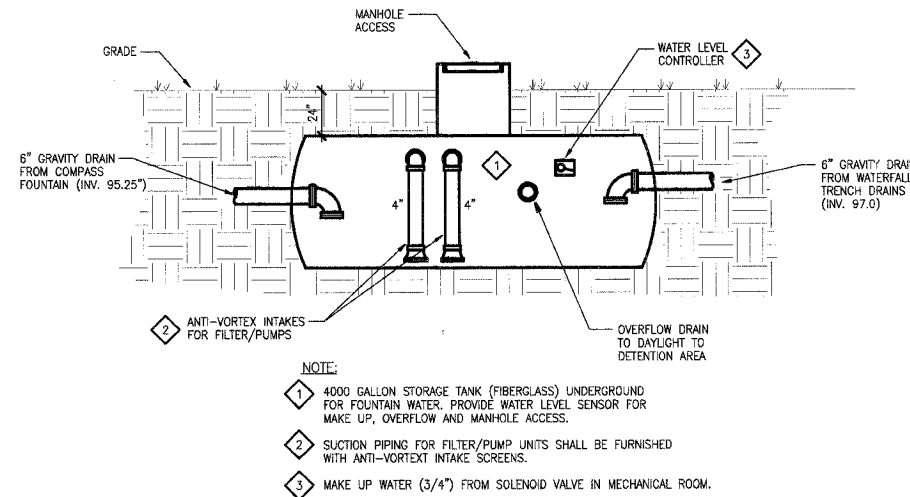
B TRENCH DRAIN DETAIL
NOT TO SCALE



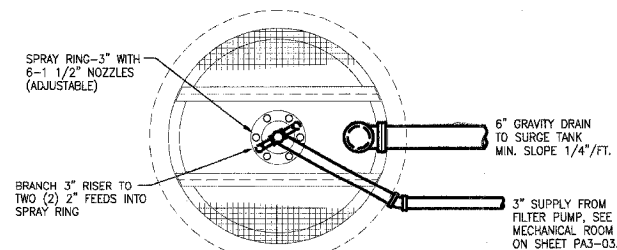
C FOUNTAIN MANIFOLD ARRANGEMENT
NOT TO SCALE



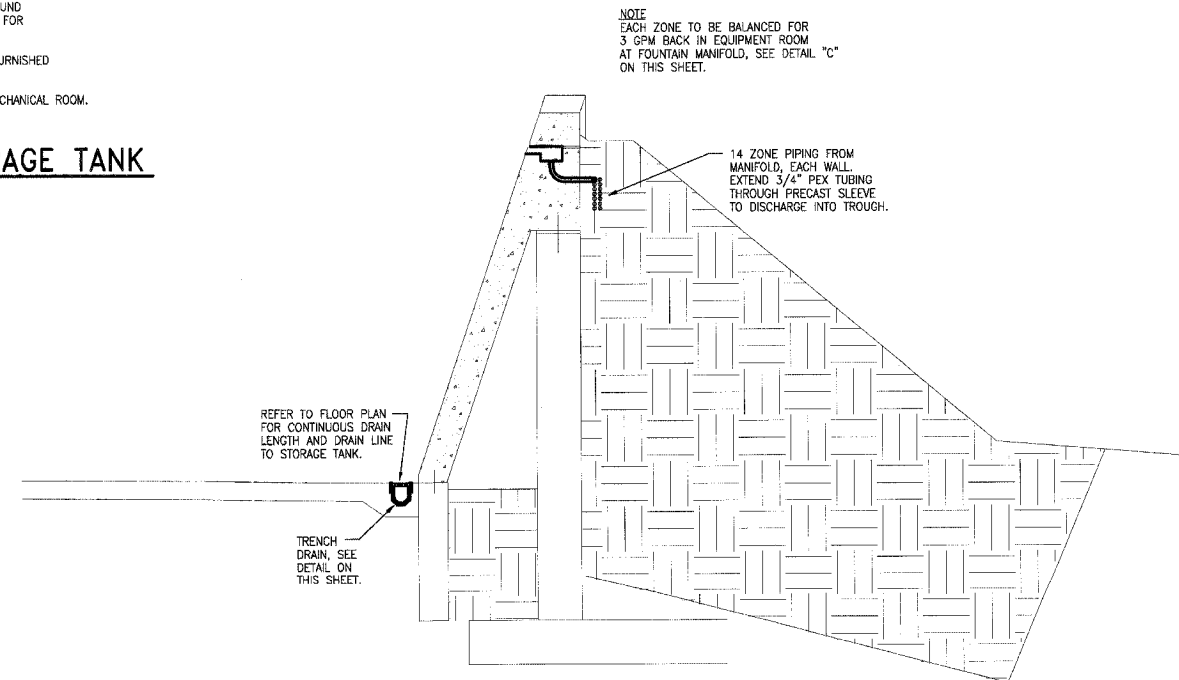
E FOUNTAIN SECTION
1/2\"=1'-0"



D SCHEMATIC PIPING OF STORAGE TANK
NOT TO SCALE



F FOUNTAIN PLAN
1/2\"=1'-0"



G SECTION A-A, NORTH FOUNTAIN AT ENTRY (WATERFALLS)
NOT TO SCALE

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FAX (314) 241-9125

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PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
FOUNTAIN ISOMETRIC & DETAILS-PLUMBING

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

PA3-04

PLUMBING FIXTURE CONNECTION SCHEDULE							
MARK	DESCRIPTION	WASTE	TRAP	VENT	COLD WATER	HOT WATER	REMARKS
SK-1	SINGLE BOWL SINK	2"	1 1/2"	1 1/2"	1/2"	1/2"	MAN. FAUCET
NOTE: 1. SIZES LISTED ARE MINIMUM CONNECTIONS REQUIRED TO FIXTURES.							

DRAIN SCHEDULE					
MARK	MANUFACTURER	MODEL NO.	OUTLET SIZE	STRAINER MATERIAL	REMARKS
FD-2	J.R.SMITH	2110	4"	CAST IRON	MECHANICAL ROOM AND MECH./PUMP ROOM
FD-3	J.R.SMITH	3710SC	4"	CAST IRON	ELEVATOR SUMP IN ELECTRICAL ROOM
NOTE:					

MISCELLANEOUS EQUIPMENT					
MARK	MANUFACTURER	MODEL NO.	CONNECTIONS	INSTALLATION	USE/LOCATION
RPBP-2	FEBCO	860	1"	HORIZONTAL	FOUNTAIN/MECHANICAL ROOM
SP-1	STANCOR	SE50	2"	IN PIT	SUMP PUMP/ELEVATOR PIT
NOTE:					

ELECTRIC WATER HEATER SCHEDULE							
MARK	MANUFACTURER	MODEL NO.	STORAGE	RECOVERY	ELEMENT	VOLT/PH	REMARKS
WH-2	BRADFORD WHITE	ES-4000-1-S-10	-	-	4.1 KW	208/3	UNDER SK-1
NOTE: RECOVERY BASED ON 90° RISE							

SYMBOLS & ABBREVIATIONS

PLUMBING

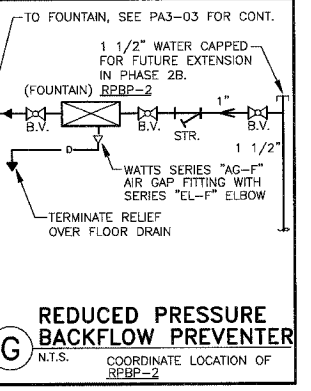
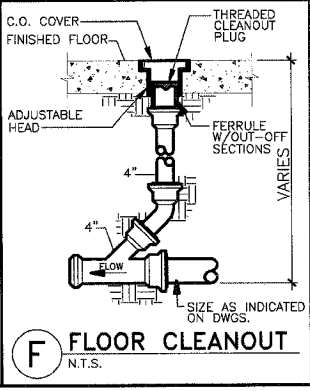
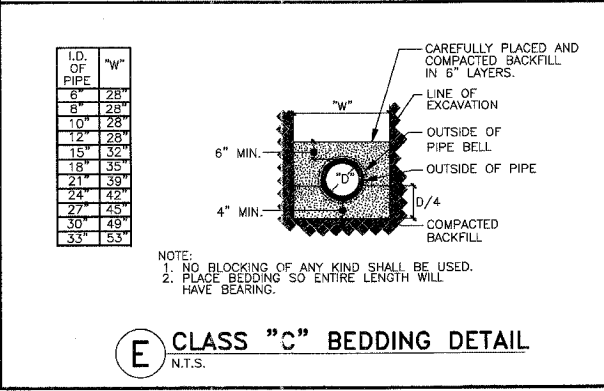
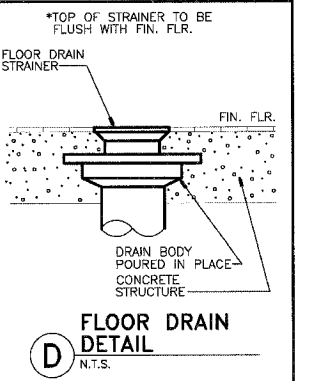
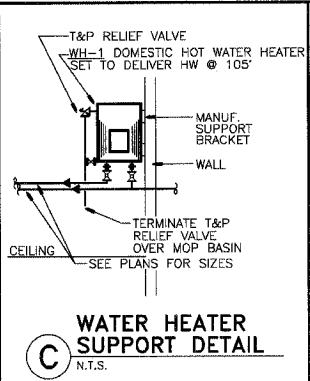
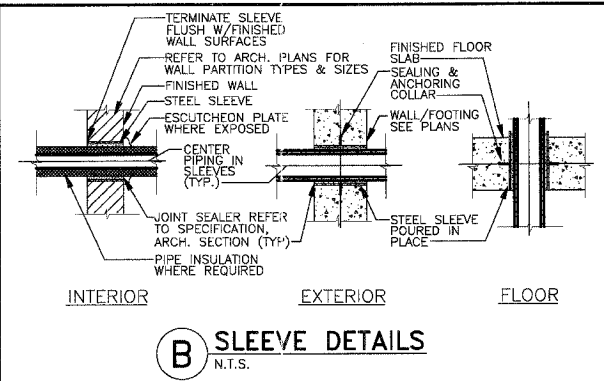
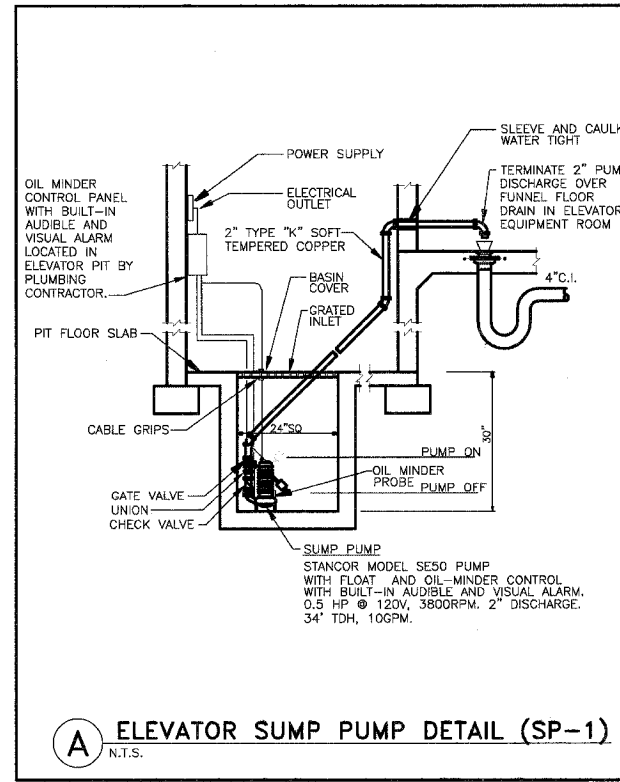
PLUMBING ABBREVIATION

AD	AREA DRAIN
AP	ACCESS PANEL
BT	BATH TUB
CO	CLEAN OUT
CW	COLD WATER
EW	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
F.F.	FINISH FLOOR
FS	FLOOR SINK
HW	HOT WATER
HWR	HOT WATER RETURN
HWRP	HOT WATER RECIRCULATING PUMP
HY	HYDRANT
INV. EL.	INVERT ELEVATION
LAV	LAVATORY
MB	MOP SERVICE BASIN
PR	PLUMBING RISER
RPBP	BACKFLOW PREVENTER (REDUCED PRESSURE)
SH	SHOWER
SK	SINK
TD	TRENCH DRAIN
TYP.	TYPICAL
V	VENT
VTR	VENT THRU ROOF
W	WASTE
WH	WATER HEATER
WS	WATER SOFTNER
WCO	WALL CLEANOUT
WC	WATER CLOSET
VS	VENT STACK
UR	URINAL

PIPING SPECIALTIES

	GATE VALVE
	CHECK VALVE
	CIRCUIT SETTER
	BALL VALVE
	BALANCING COCK
	UNION
	STRAINER
	REDUCE PRESSURE BACKFLOW PREVENTER
	THERMOMETER
	GAUGE
	PRESSURE/TEMPERATURE TEST PLUG
	FLOW MEASURING DEVICE
	INDICATES PLUMBING RISER & DRAWING REFERENCE
	CW COLD WATER
	HW HOT WATER (10's)
	HWR HOT WATER RETURN
	V SANITARY VENT
	ST STORM
	S or W SOIL or WASTE
	VTR VENT THRU ROOF AND FLASH
	CO CLEANOUT
	FCO FLOOR CLEANOUT
	WCO WALL CLEANOUT
	FD FLOOR DRAIN
	FS FLOOR SINK
	HB HOSE BIBB
	ELBOW, TURNED UP
	ELBOW, TURNED DOWN
	BRANCH CONNECTION, TOP
	BRANCH CONNECTION, BOTTOM
	DIRECTION OF FLOW
	PIPE CAP OR BLIND FLANGE
	ACCESS PANEL

*NOT ALL OF THESE ITEMS ABOVE ARE ON THE PROJECT



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PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
LEGEND, SCHEDULES AND DETAILS PLUMBING

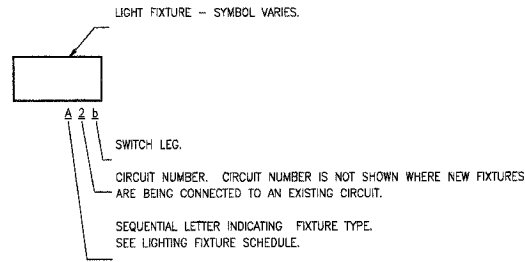
DATE	
REVISIONS	
REV. NO.	
KENNEDY PROJECT NO	KAI- 10-02048
ISSUE DATE	12-JULY-05
SHEET NO	PA4-01

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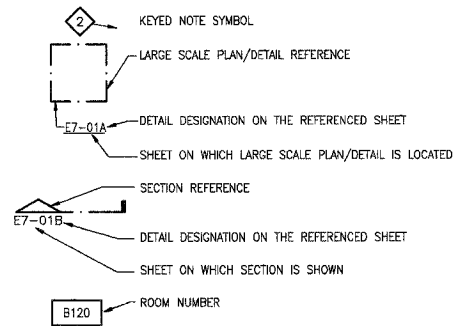
GENERAL NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL EQUIPMENT (LIGHT FIXTURES, OCCUPANCY SENSORS, ETC.)
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION DRAWINGS INDICATING THE EXACT LOCATION OF WALL MOUNTED INTERIOR AND EXTERIOR LIGHT FIXTURES.
- IN GENERAL, CONDUIT ROUTING SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. ACTUAL CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD.
- WALL MOUNTED STARTERS, DISCONNECT SWITCHES, COMBINATION STARTERS, ETC. SHALL BE INSTALLED AT 48" TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- AT THE ROUGH-IN FOR ALL WALL HEIGHT PHONES, PROVIDE A BLANK COVER PLATE ON THE OUTLET BOX.
- NOT ALL SYMBOLS ARE USED IN EACH PHASE OF THIS PROJECT.

LIGHT FIXTURE DESIGNATION MATRIX



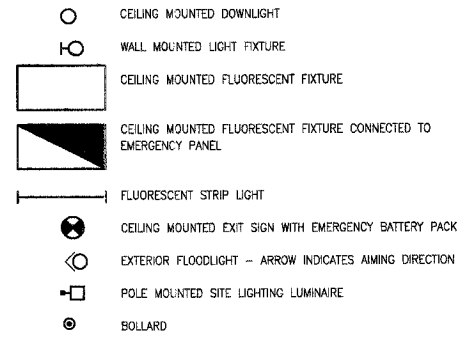
MISCELLANEOUS



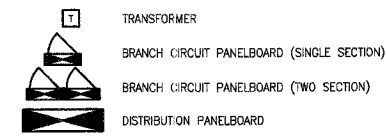
ABBREVIATIONS

A	AMPERE(S)
AIC	AMPERE INTERRUPTING CAPACITY
AC	ALTERNATING CURRENT
AF	AMP FUSE
AWG	AMERICAN WIRE GAUGE
AS	AMP SWITCH
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CONTR	CONTRACTOR
C/B	CIRCUIT BREAKER
COND	CONDUCTOR
CONN	CONNECTION
C	CONDUIT
CONT	CONTROL
ELEC	ELECTRICAL
EMER	EMERGENCY
EWC	ELECTRIC WATER COOLER
F	FUSED
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FURN	FURNISHED
G	GROUND
GFI	GROUND FAULT INTERRUPTING
HD	HEAVY DUTY
HID	HIGH INTENSITY DISCHARGE
HPS	HIGH PRESSURE SODIUM
IMC	INTERMEDIATE METAL CONDUIT
INC	INCANDESCENT
INST	INSTALLED
KW	KILOWATTS
KVA	KILOVOLT AMPERES
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSED
NL	NIGHT LIGHT
P	POLE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PRI	PRIMARY
PVC	POLYVINYLCHLORIDE
REC	RECEPTACLE
RECEP	RECEPTACLE
SEC	SECONDARY
SLRF	SURFACE
SWBD	SWITCHBOARD
SWBT	SOUTHWESTERN BELL TELEPHONE
SYM	SYMMETRICAL
TEL	TELEPHONE
TEMP	TEMPORARY
THD	TOTAL HARMONIC DISTORTION
TRANS	TRANSFORMER
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
UH	UNIT HEATER
V	VOLTS
VA	VOLTAMPS
VTB	VIDEO TERMINAL BOARD
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER

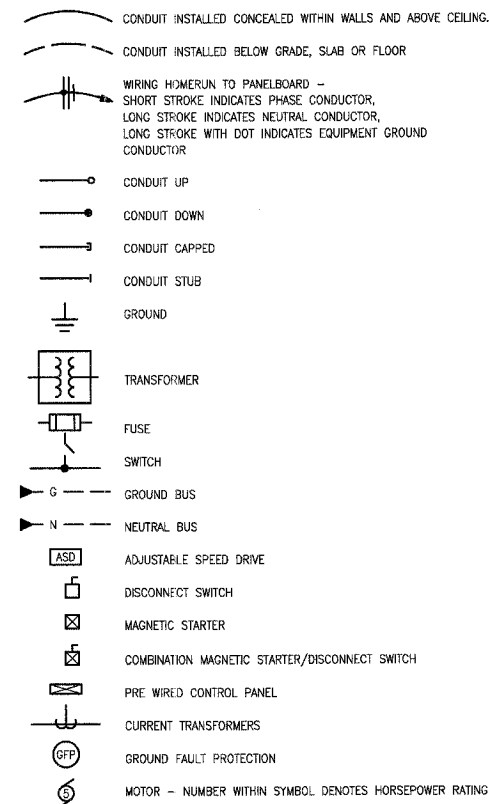
LIGHTING



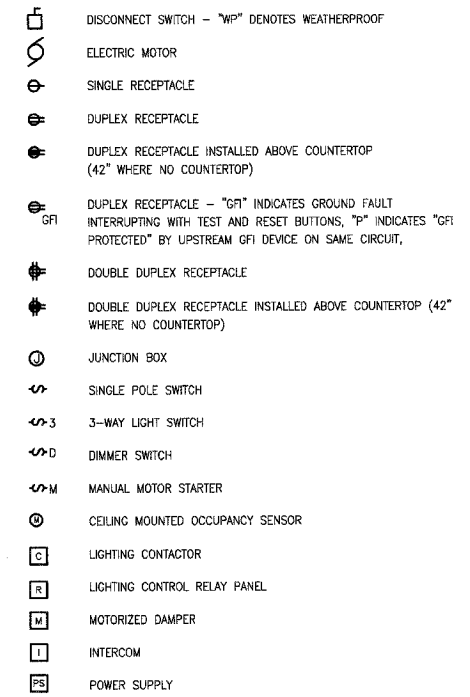
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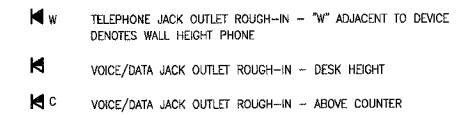
ONE LINE/WIRING/CONDUIT



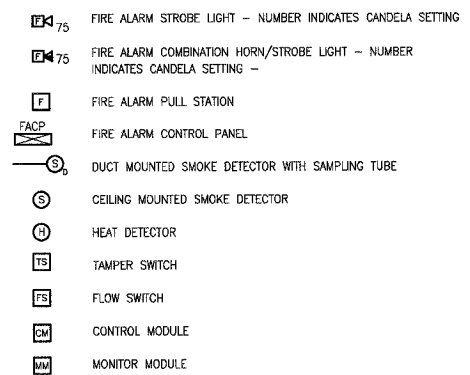
WIRING DEVICES



VOICE/DATA



FIRE ALARM



NOTE

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED IN EACH PHASE OF THIS PROJECT.

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KAI
PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
ELECTRICAL SYMBOLS AND ABBREVIATIONS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

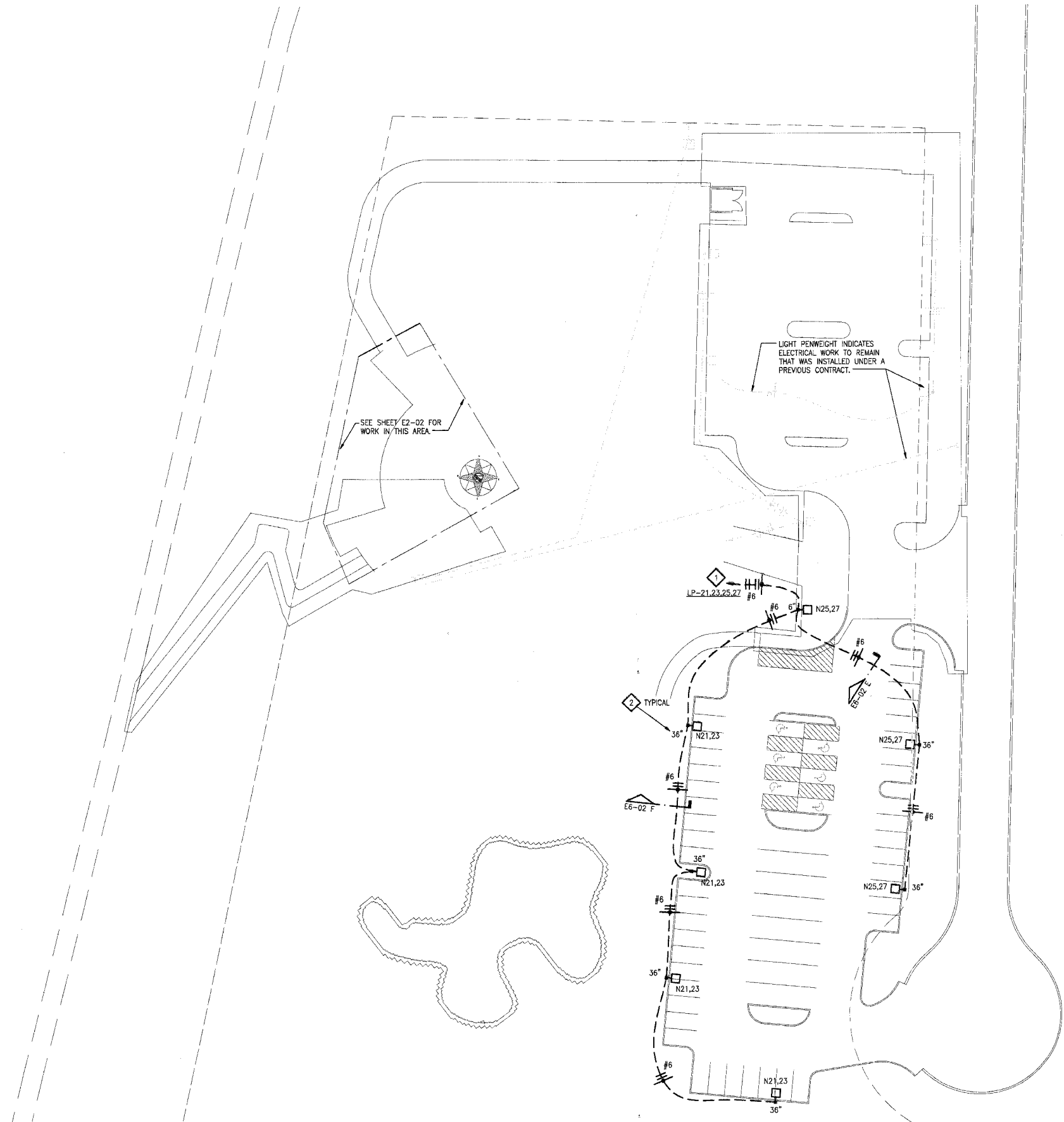
EA1-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	32

FEDERAL AID PROJECT

KEYED NOTES

- 1 EXTEND AND CONNECT TO PANEL VIA CONTACTOR. SEE SHEET E4-01 FOR LOCATION OF CONTACTOR C2.
- 2 DIMENSION DENOTES HEIGHT OF CONCRETE BASE ABOVE GRADE. TYPICAL FOR ALL POLES. SEE DETAILS A AND C ON SHEET E6-02 FOR ADDITIONAL INFORMATION.



A ELECTRICAL SITE PLAN
1"=30'



P:\2002\10-00248\GOODS\EA2-01.DWG 7/2/2007 10:13:20 AM | Xref.s: TB2496CDL SITE-2A BS-P-PLAN-2A E2BBS201 E2ABSS201 | Images: none

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PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
ELECTRICAL SITE PLAN

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

EA2-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	33

FEDERAL AID PROJECT

KEYED NOTES

- 1 QUAZITE TYPE BOX INSTALLED IN PAVED AREA. SEE DETAIL A, SHEET E6-01.
- 2 WITHIN THIS FIXTURE, CONNECT NEW WIRING TO EXISTING CIRCUITS LP-8 AND LP-10.
- 3 EXISTING 3/4" EMPTY CONDUIT WITH PULLWIRE INSTALLED UNDER A PREVIOUS PHASE. CONDUIT TERMINATES AT CONTACTOR C1. PROVIDE NEW BRANCH CIRCUIT WIRING BETWEEN THIS FIXTURE AND PANEL LP. CIRCUITS 5 AND 7. EXTEND NEW WIRING THROUGH CONTACTOR C1. SEE SHEET E4-01 FOR LOCATION OF CONTACTOR C1.
- 4 EXTEND AND CONNECT TO PANEL VIA CONTACTOR C2. SEE SHEET E4-01 FOR LOCATION OF CONTACTOR C2.
- 5 EXTEND AND CONNECT TO PANEL VIA RELAY PANEL. SEE SHEET E4-01 FOR LOCATION OF RELAY PANEL.
- 6 WITHIN EXISTING JUNCTION BOXES, DISCONNECT EXISTING POWER SUPPLY CONDUCTORS FROM EXISTING PANEL LRPS (LIFE SAFETY LITG, FIRE ALARM EQUIP.) CONNECT EXISTING LIFE SAFETY LIGHTING AND EXISTING FIRE ALARM EQUIPMENT TO NEW CIRCUITS EP-2, 12 AND 16.

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**PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049**

SHEET TITLE:
**PLAZA
LIGHTING PLAN**

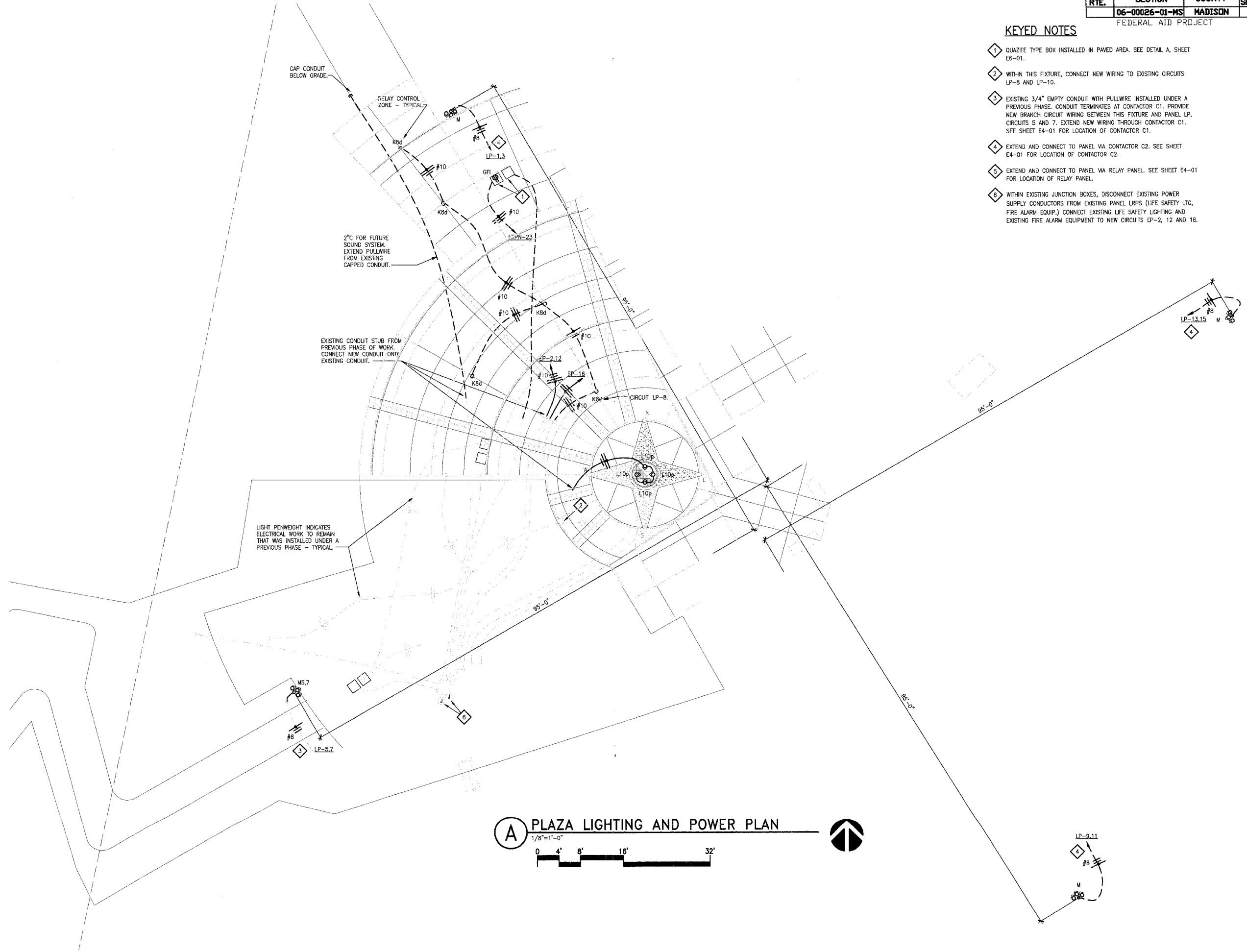
REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO
EA2-02

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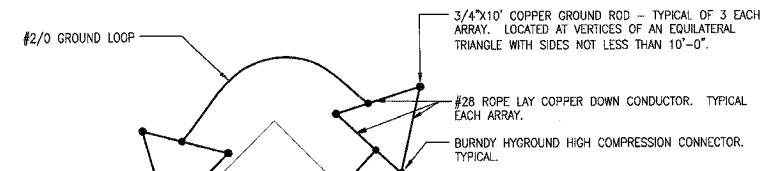
A PLAZA LIGHTING AND POWER PLAN
1/8"=1'-0"

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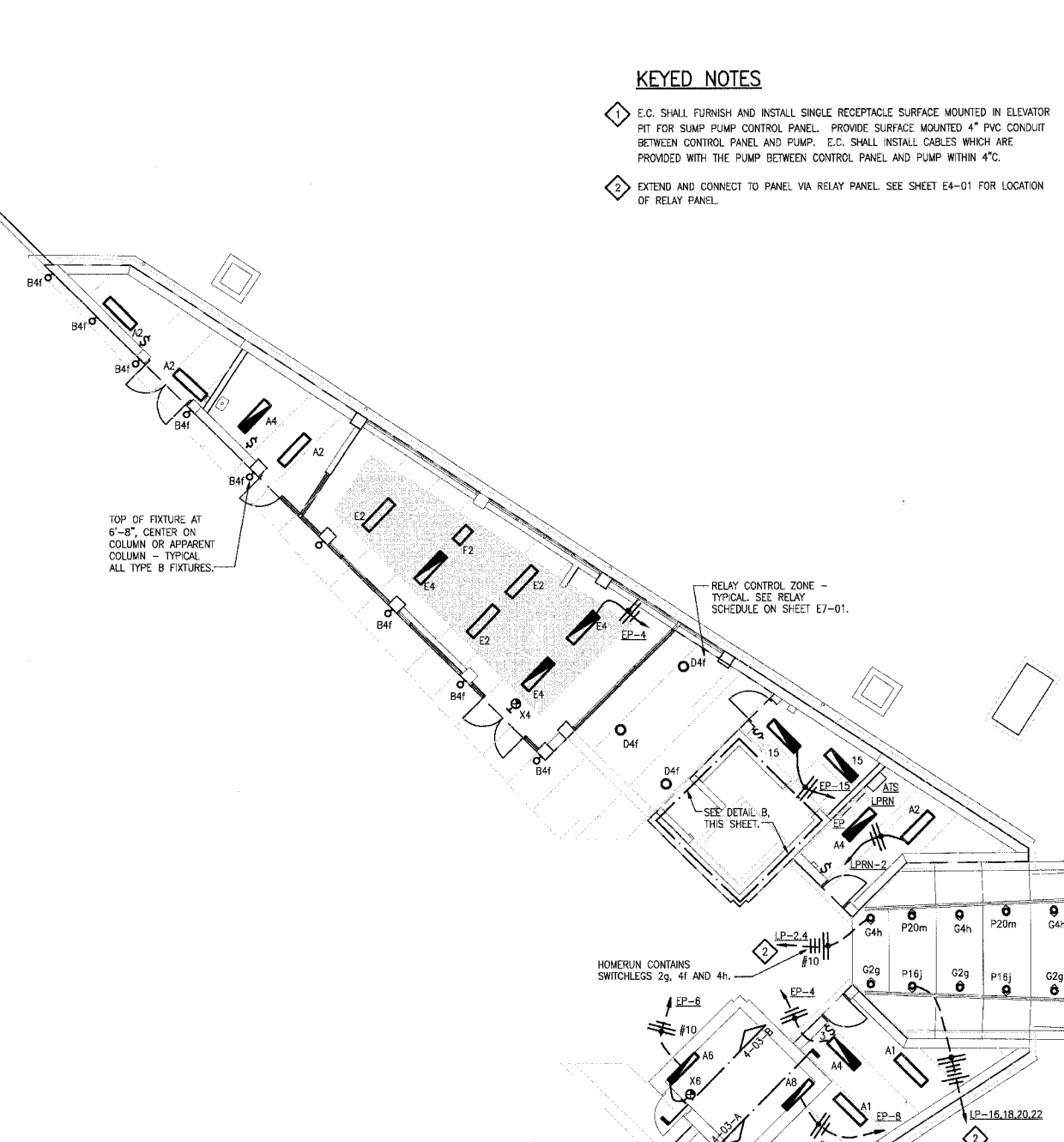
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	34
FEDERAL AID PROJECT				

KEYED NOTES

- 1 E.C. SHALL FURNISH AND INSTALL SINGLE RECEPTACLE SURFACE MOUNTED IN ELEVATOR PIT FOR SUMP PUMP CONTROL PANEL. PROVIDE SURFACE MOUNTED 4" PVC CONDUIT BETWEEN CONTROL PANEL AND PUMP. E.C. SHALL INSTALL CABLES WHICH ARE PROVIDED WITH THE PUMP BETWEEN CONTROL PANEL AND PUMP WITHIN 4" C.
- 2 EXTEND AND CONNECT TO PANEL VIA RELAY PANEL SEE SHEET E4-01 FOR LOCATION OF RELAY PANEL.



EXISTING CONDUITS AND JUNCTION BOXES INSTALLED DURING A PREVIOUS CONSTRUCTION PHASE. CONDUITS ARE CONCEALED WITHIN EXISTING STRUCTURE.



TOP OF FIXTURE AT 6'-8", CENTER ON COLUMN OR APPARENT COLUMN - TYPICAL ALL TYPE B FIXTURES.

RELAY CONTROL ZONE - TYPICAL SEE RELAY SCHEDULE ON SHEET E7-01.

SEE DETAIL B, THIS SHEET.

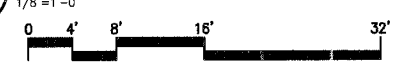
HOMERUN CONTAINS SWITCHLEGS 2g, 4f AND 4h.

LIGHT PENWEIGHT INDICATES ELECTRICAL WORK TO REMAIN THAT WAS INSTALLED UNDER A PREVIOUS PHASE - TYPICAL.

(B) ELEVATOR PIT LIGHTING & POWER PLAN
1/8"=1'-0"



(A) GROUND FLOOR LIGHTING PLAN
1/8"=1'-0"



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FAX: (314) 241-0255



PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE
GROUND FLOOR LIGHTING PLAN

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO
EA3-01

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FAX 314-241-0125



PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
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HARTFORD, ILLINOIS 62049

SHEET TITLE:
**GROUND FLOOR
POWER PLAN**

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

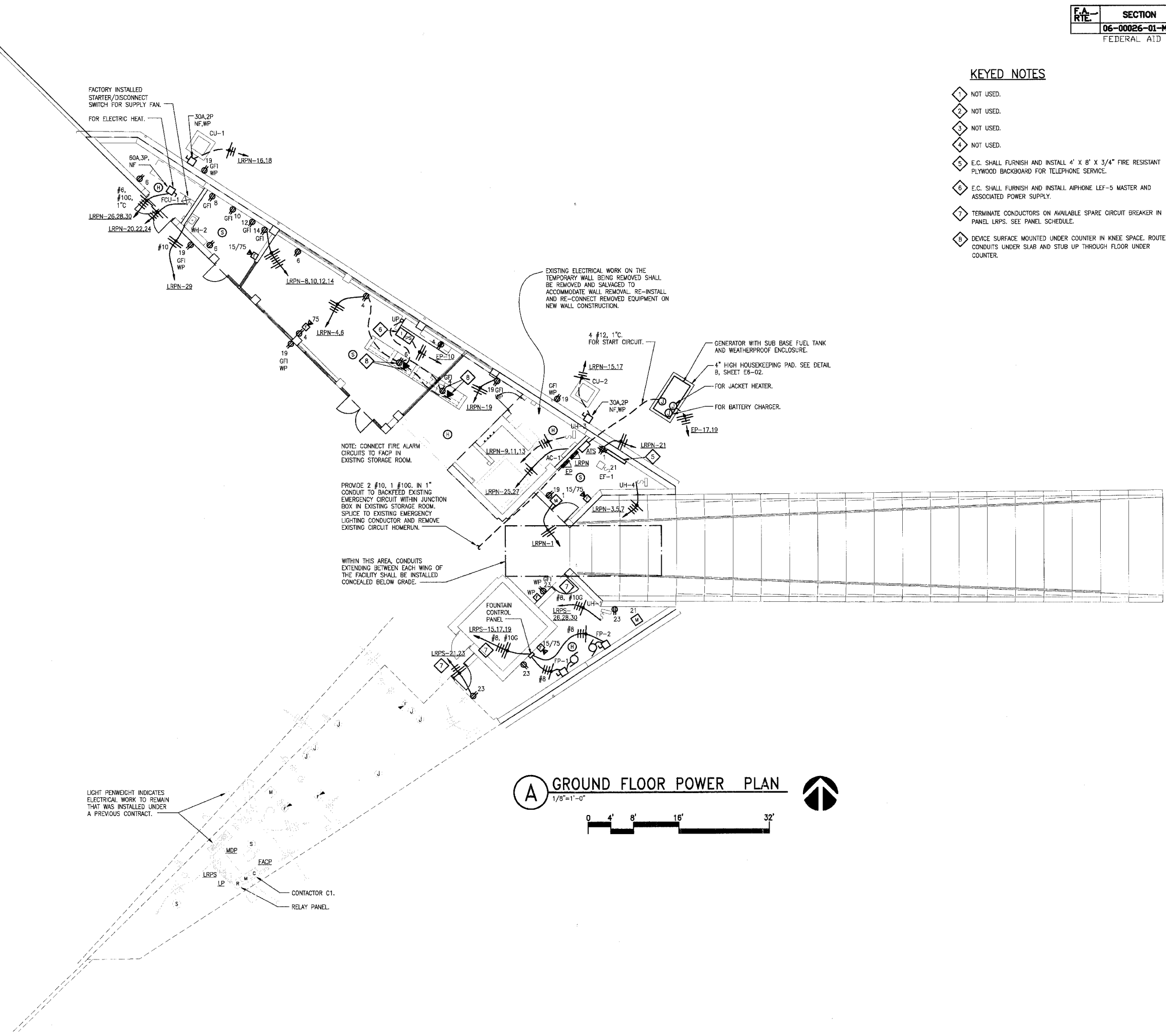
ISSUE DATE
12-JULY-05

SHEET NO
EA4-01

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KEYED NOTES

- 1 NOT USED.
- 2 NOT USED.
- 3 NOT USED.
- 4 NOT USED.
- 5 E.C. SHALL FURNISH AND INSTALL 4' X 8' X 3/4" FIRE RESISTANT PLYWOOD BACKBOARD FOR TELEPHONE SERVICE.
- 6 E.C. SHALL FURNISH AND INSTALL AIPHONE LEF-5 MASTER AND ASSOCIATED POWER SUPPLY.
- 7 TERMINATE CONDUCTORS ON AVAILABLE SPARE CIRCUIT BREAKER IN PANEL LRPS. SEE PANEL SCHEDULE.
- 8 DEVICE SURFACE MOUNTED UNDER COUNTER IN KNEE SPACE. ROUTE CONDUITS UNDER SLAB AND STUB UP THROUGH FLOOR UNDER COUNTER.



P:\2002\10-02048\6000DSC\EA4-01.DWG | 7/2/2007 10:19:24 AM | Xref: TB2436C0L BS-PLAN-2A EZBBS401 E2BBS401 | images: none

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	43	36

FEDERAL AID PROJECT

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PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
LANDING ELECTRICAL PLANS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

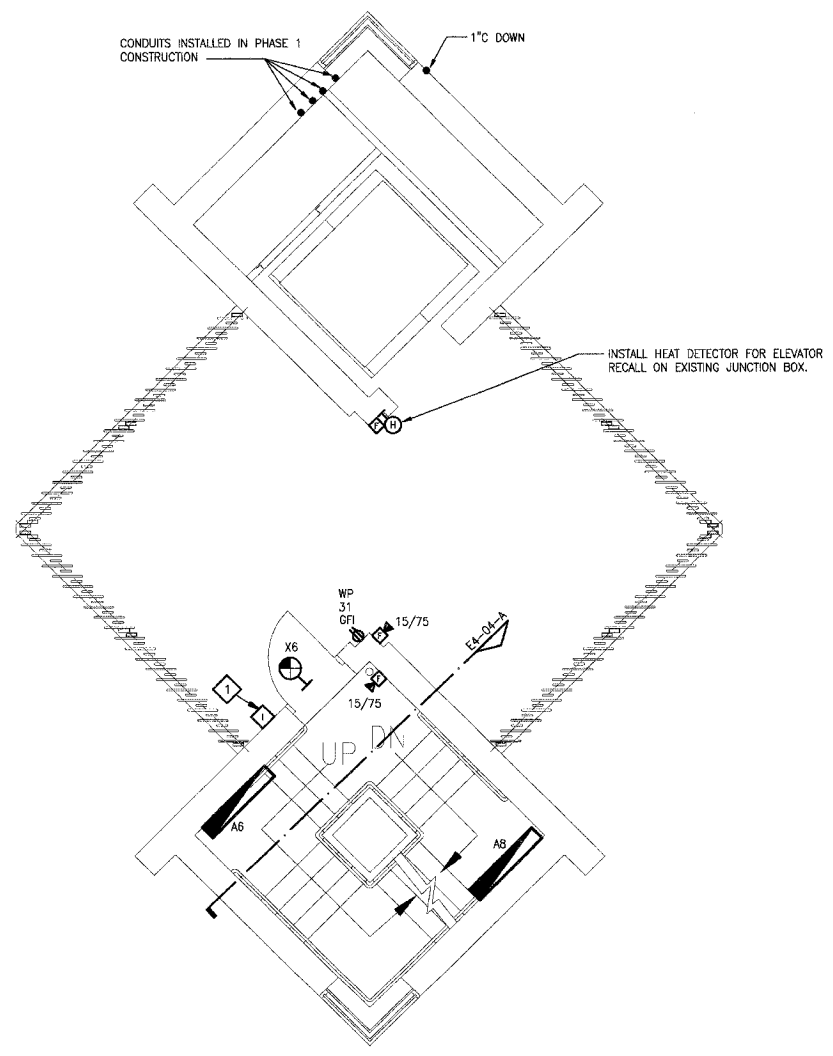
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EA4-02

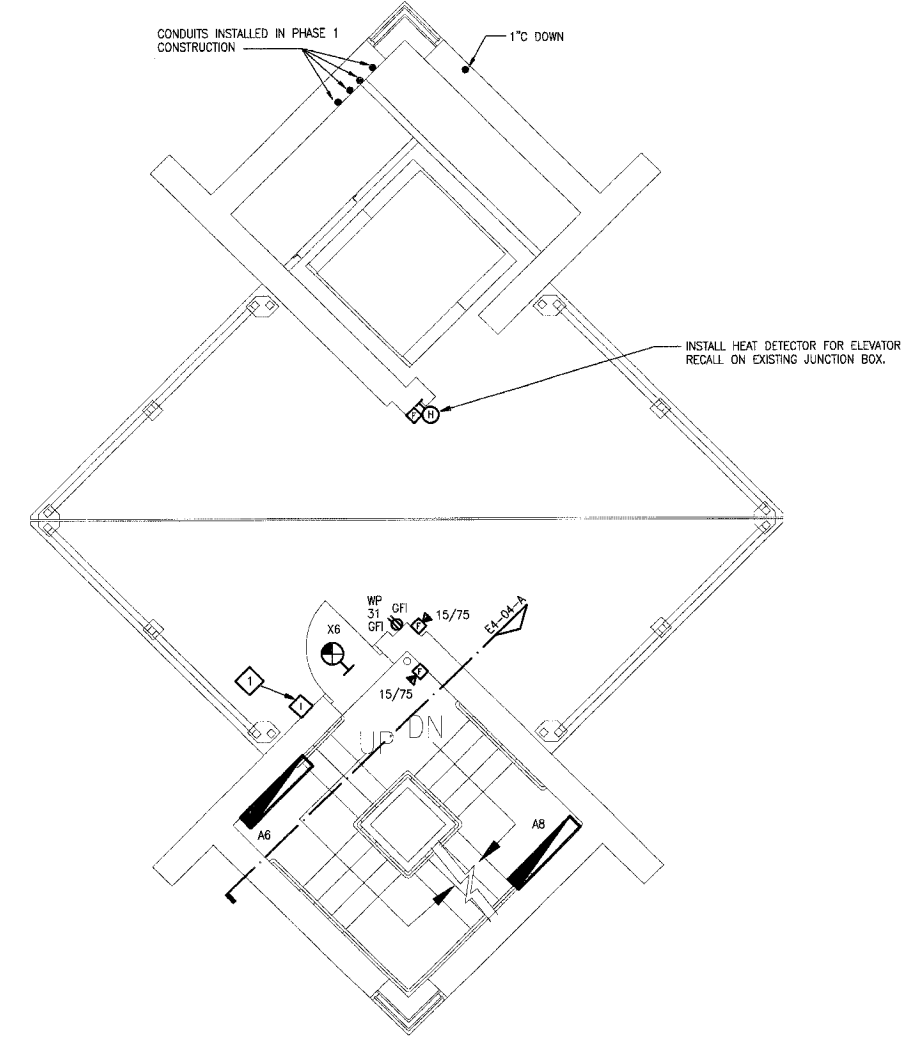
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KEYED NOTES

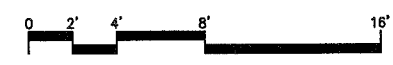
- 1. E.C. SHALL FURNISH AND INSTALL AIPHONE LE-DA OUTDOOR WEATHERPROOF INTERCOM STATION WITHIN EXISTING ROUGH-IN INSTALLED DURING PHASE 1 CONSTRUCTION. PROVIDE A 4 CONDUCTOR 18 AWG STP CABLE WIRING HOMERUN FROM EACH STATION OF THE MASTER STATION IN THE GIFT SHOP. SEE SHEET E4-01 FOR LOCATION OF MASTER STATION.



A FIRST LANDING ELECTRICAL PLAN
1/4"=1'-0"



B SECOND LANDING ELECTRICAL PLAN
1/4"=1'-0"



F:\2002\10-02048\60005C\E2M-02.DWG | 7/2/2007 9:46:47 AM | Xref: TBA383DL BS-PLATFORM | Imoges: none

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	38	37

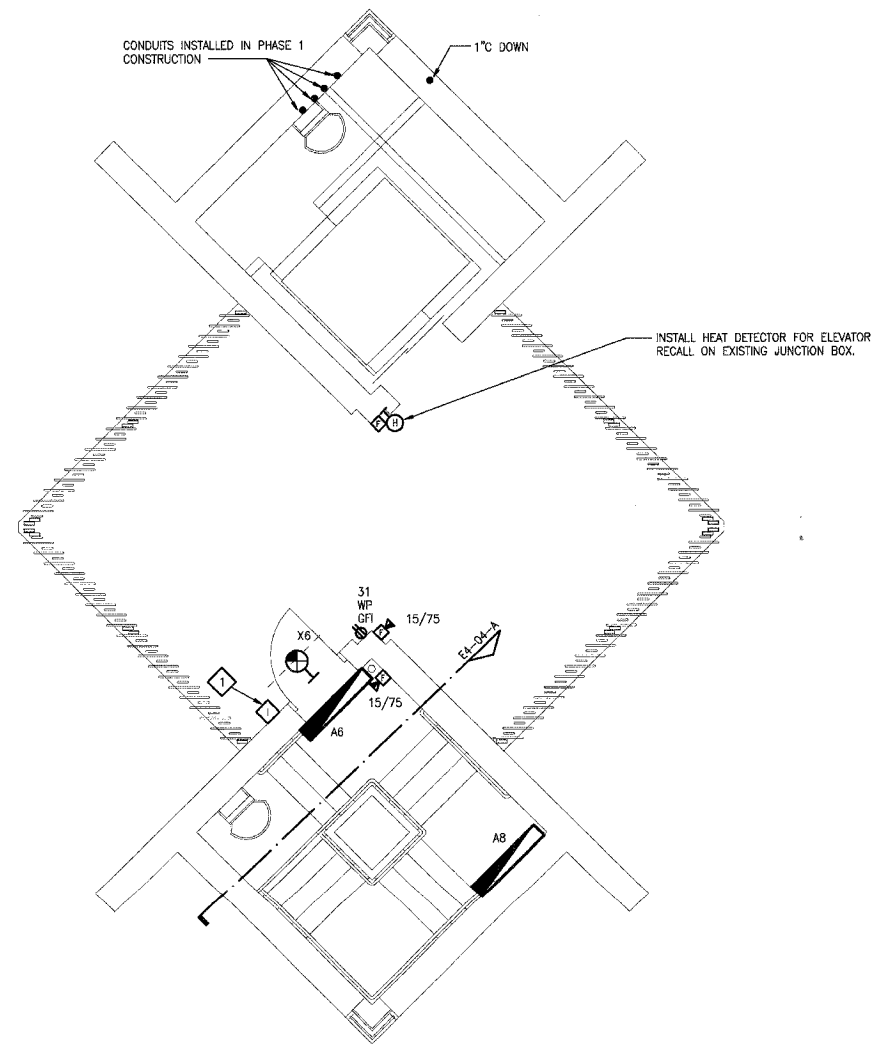
FEDERAL AID PROJECT

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St. Louis, MO 63102
(314) 241-9100
FAX (314) 241-9125

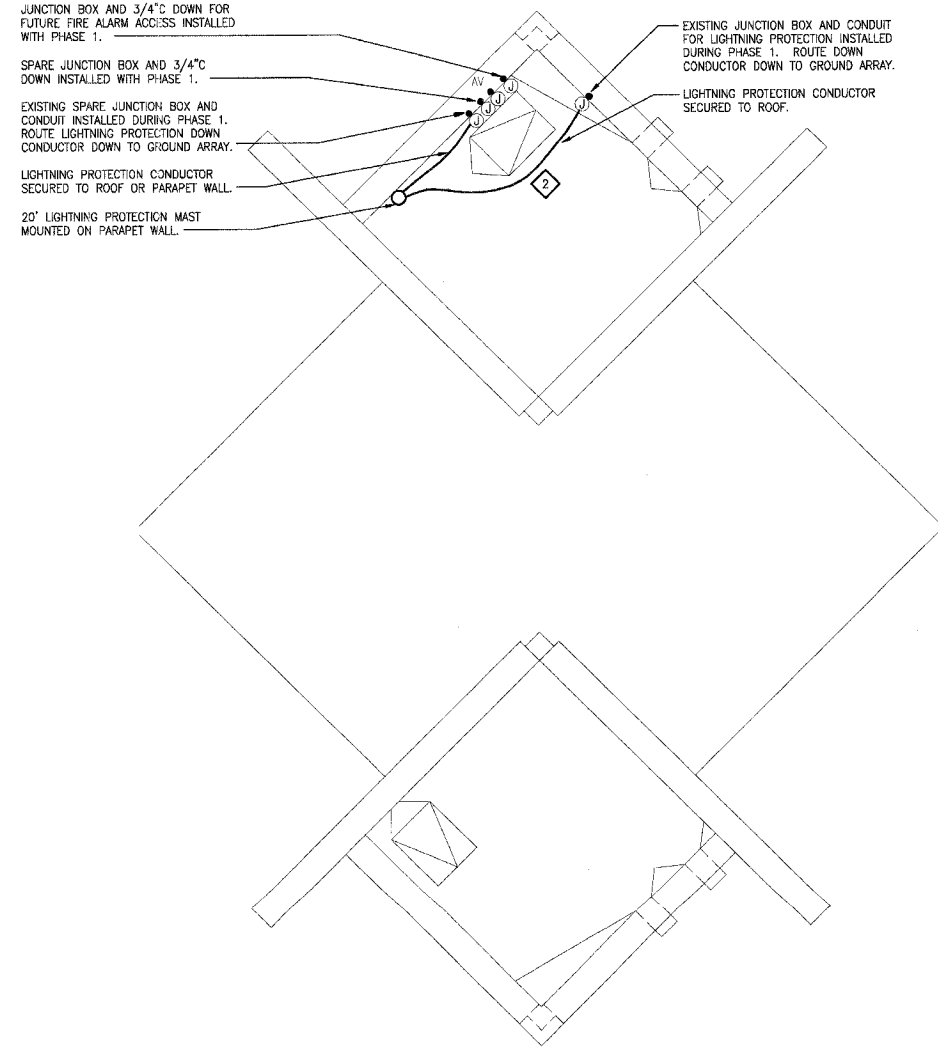
KAI

KEYED NOTES

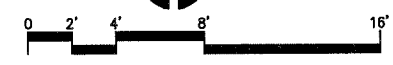
- 1 E.C. SHALL FURNISH AND INSTALL ALPHONE LE-DA OUTDOOR WEATHERPROOF INTERCOM STATION WITH IN EXISTING ROUGH-IN INSTALLED DURING PHASE 1 CONSTRUCTION.
- 2 SEE DETAILS E AND F ON SHEET E6-01.



(D) THIRD LANDING ELECTRICAL PLAN
1/4"=1'-0"



(C) ROOF LANDING ELECTRICAL PLAN
1/4"=1'-0"



PHASE 2B
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
LANDING ELECTRICAL PLANS

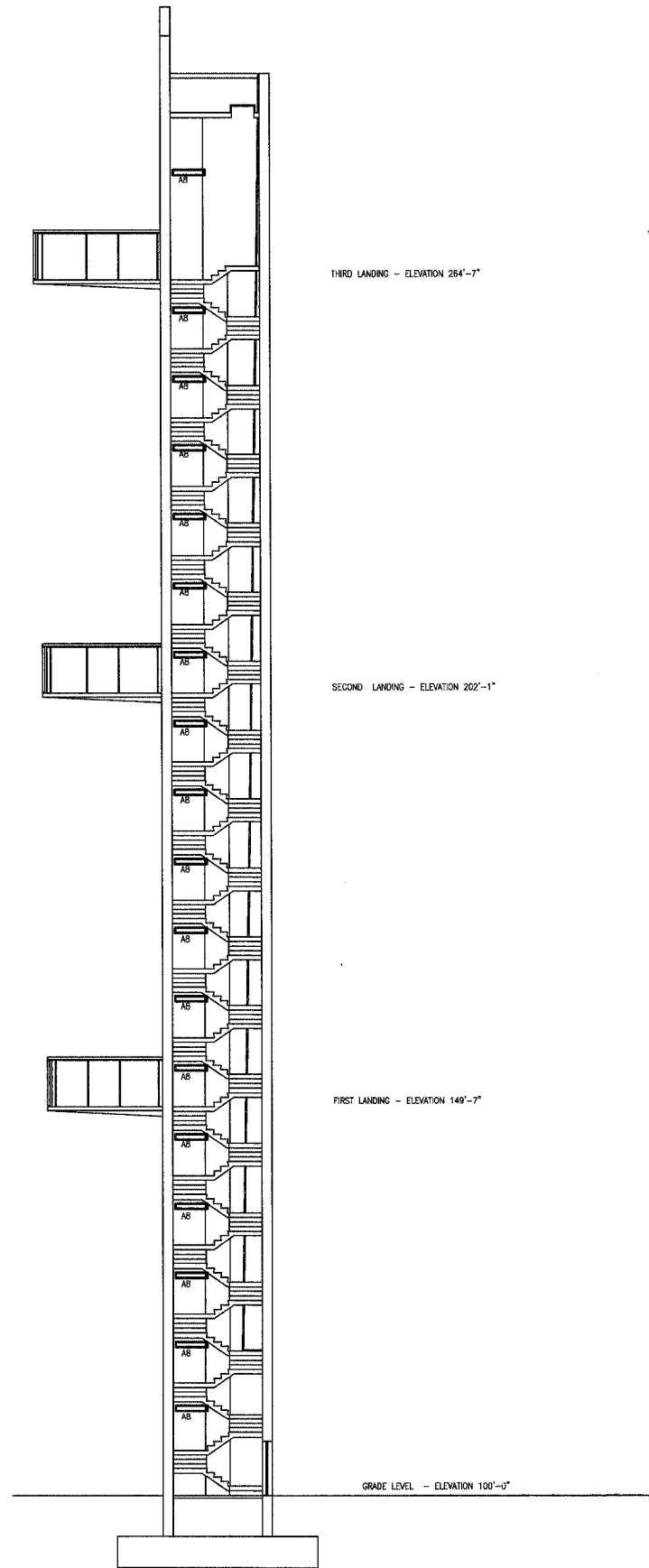
REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI 10-02048

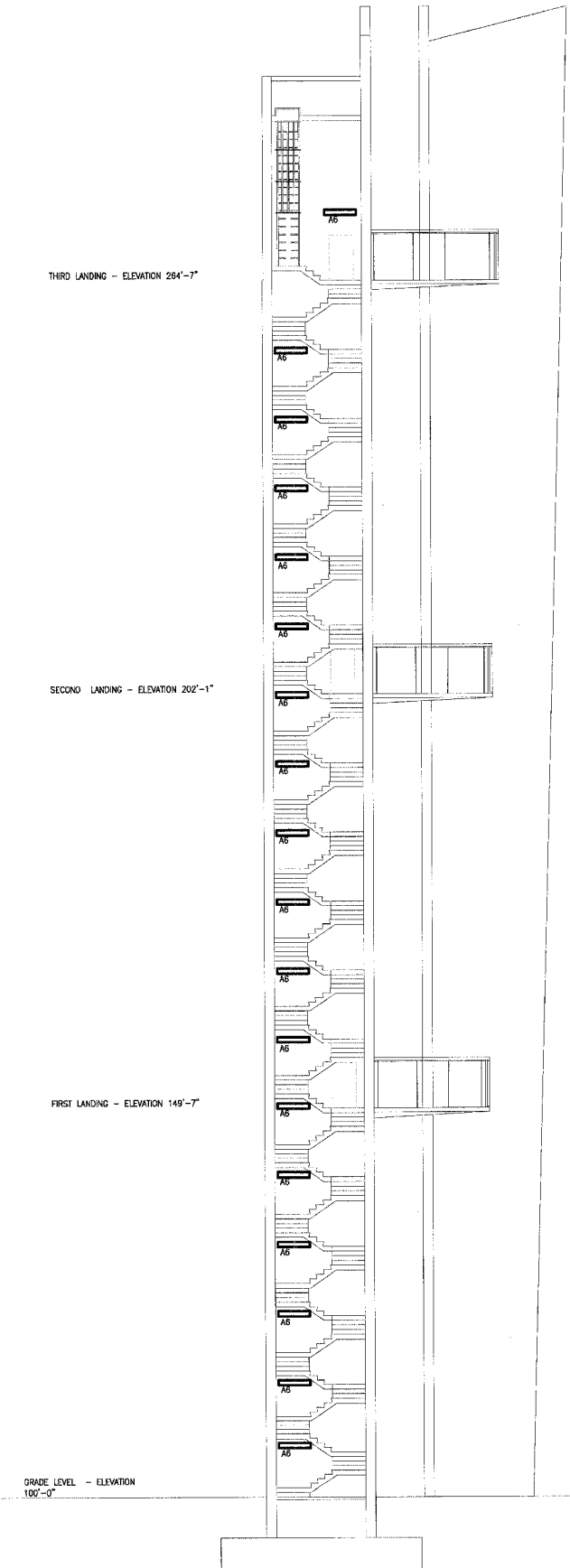
ISSUE DATE
12-JULY-05

SHEET NO
EA4-03

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00026-01-MS	MADISON	49	38
FEDERAL AID PROJECT				



A SECTION
NOT TO SCALE



B SECTION
NOT TO SCALE

NOTE:

THIS SHEET IS NOT DRAWN TO SCALE, IT IS INTENDED TO SHOW QUANTITIES AND LOCATIONS ONLY.

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PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
ELECTRICAL SECTIONS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

EA4-04

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PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
ONE LINE DIAGRAM

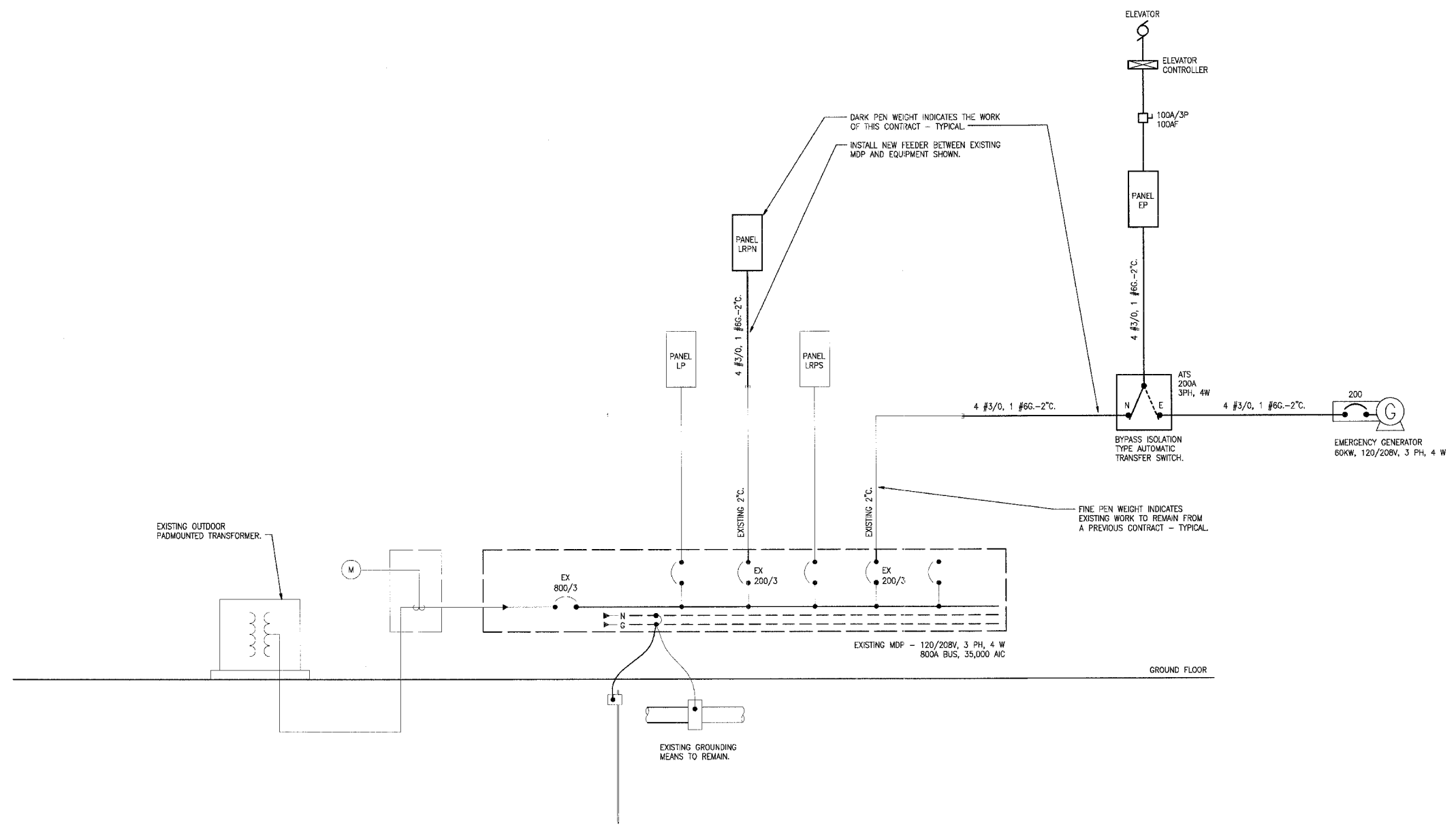
REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

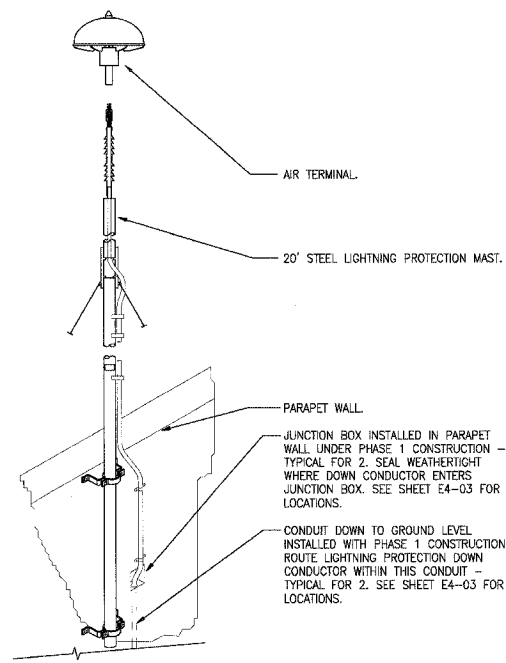
ISSUE DATE
12-JULY-05

SHEET NO

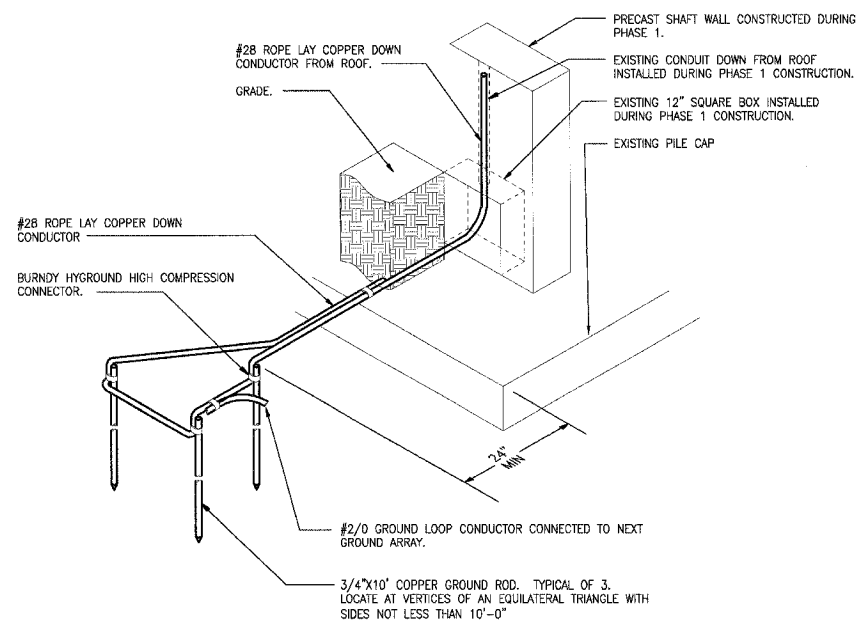
EA5-01



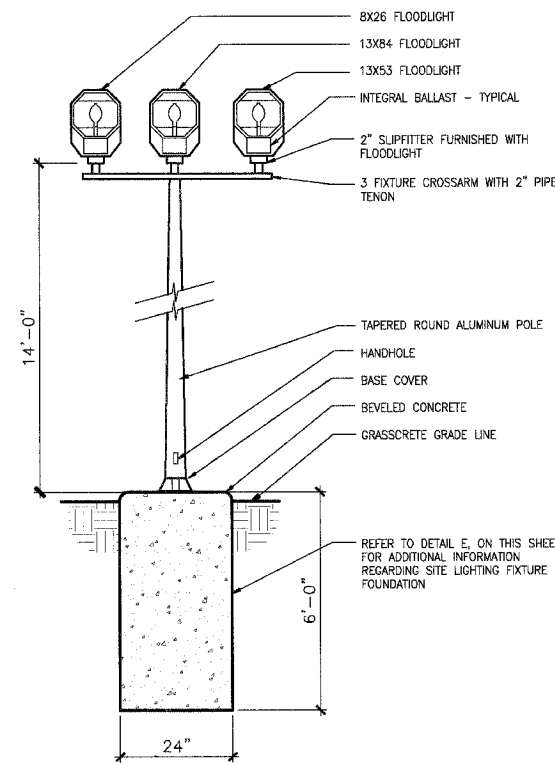
A ONE LINE DIAGRAM
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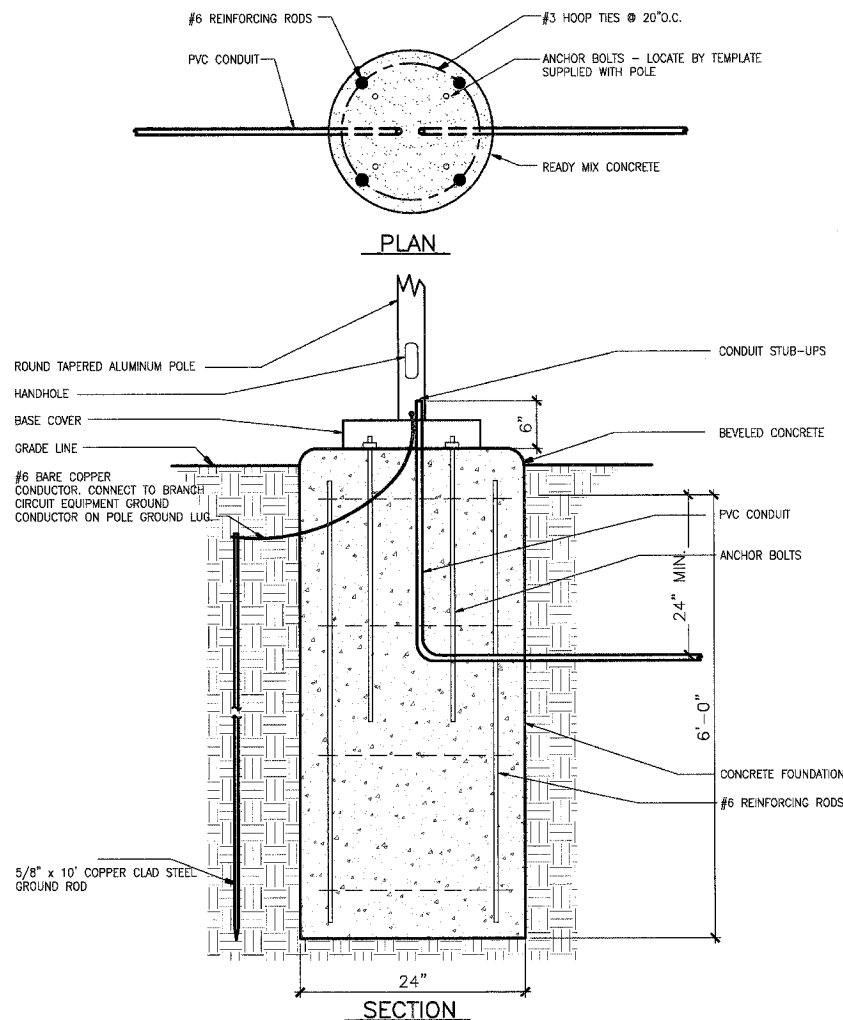
F LIGHTNING PROTECTION MOUNTING
NO SCALE



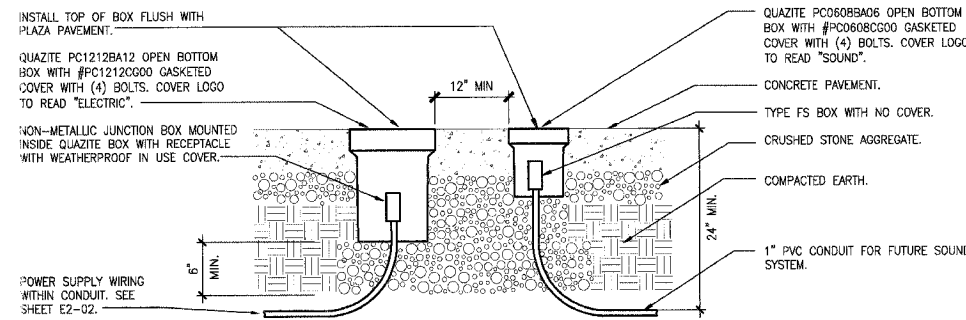
G LIGHTNING PROTECTION GROUND ARRAY
NO SCALE



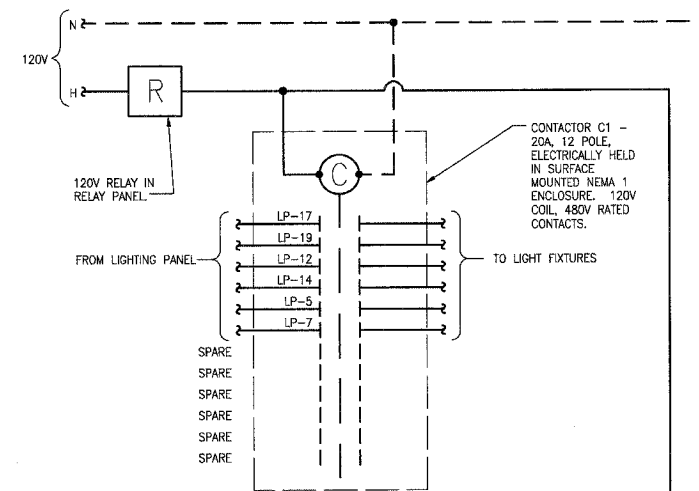
D FLOODLIGHTING FIXTURE "TYPE M"
NO SCALE



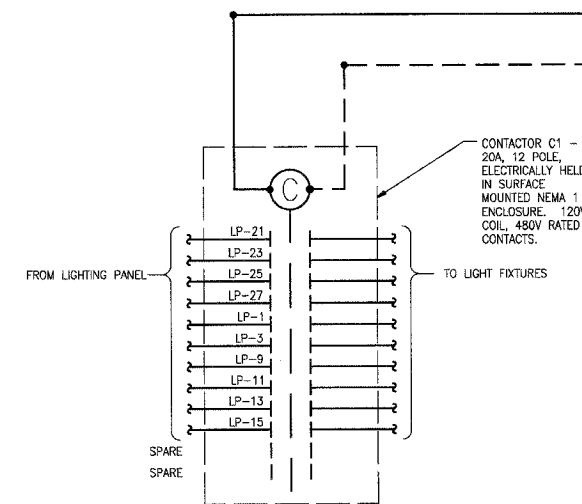
E SITE LIGHTING FIXTURE FOUNDATION DETAIL
NO SCALE



A BOXES AT PLAZA
NO SCALE



B CONTACTOR C1 DETAIL
NO SCALE



C CONTACTOR C2 DETAIL
NO SCALE

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KAI

**PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049**

SHEET TITLE:
ELECTRICAL DETAILS

DATE	
REMARKS	
REV. NO.	

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

EA6-01

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St. Louis, MO 63102
KAI
G14) 241-9118
FAX (314) 241-0128

KAI

**PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049**

SHEET TITLE:
ELECTRICAL DETAILS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

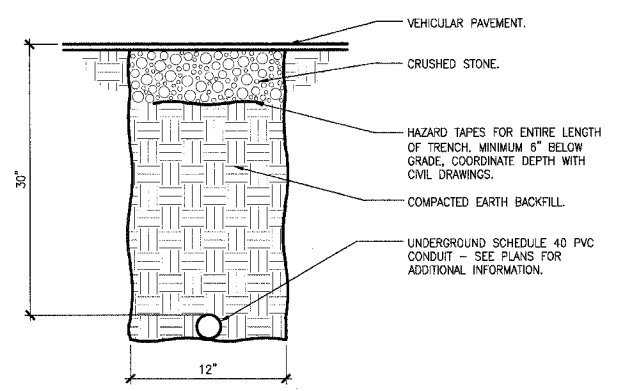
ISSUE DATE
12-JULY-05

SHEET NO

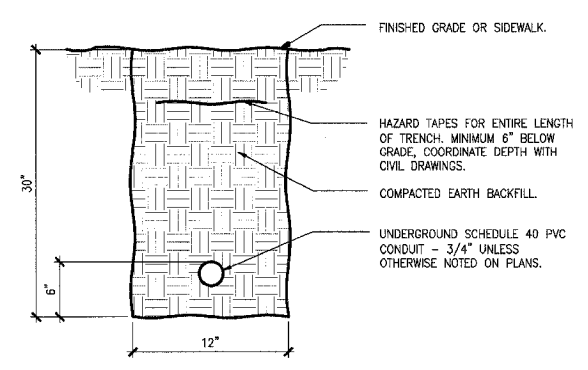
EA6-02

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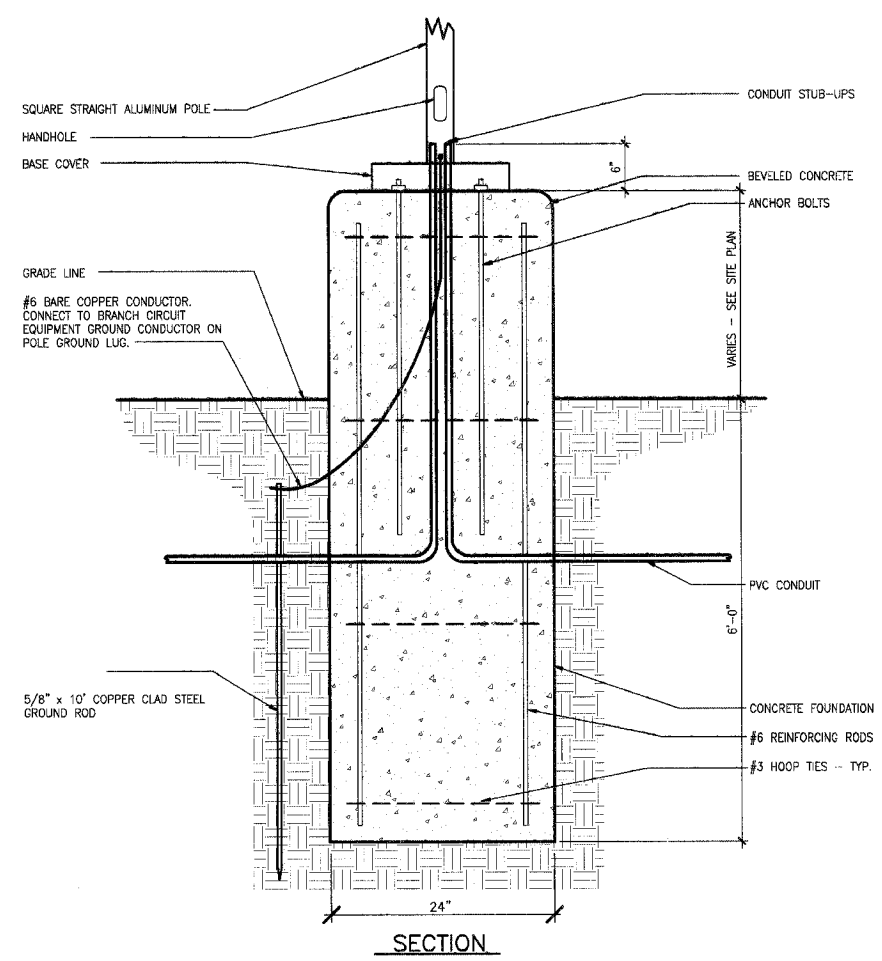
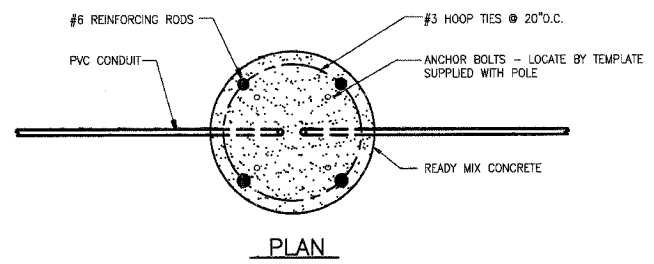
D NOT USED
NO SCALE



E CONDUIT TRENCH UNDER VEHICULAR PAVEMENT
NO SCALE

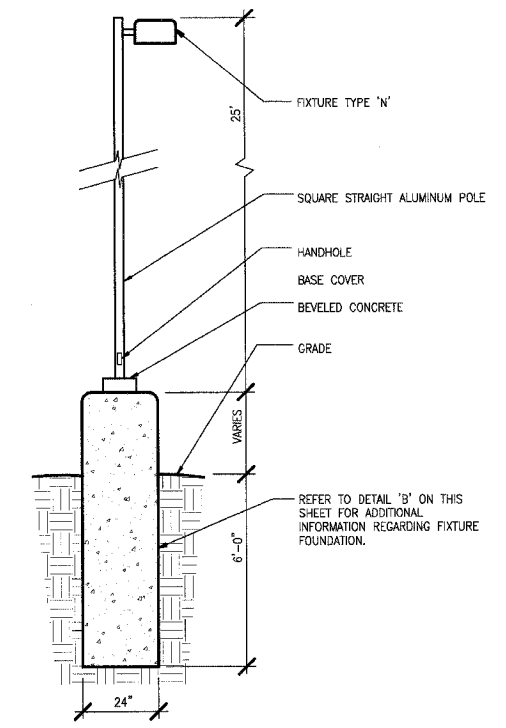


F CONDUIT TRENCH IN GRASS OR UNDER SIDEWALK
NO SCALE

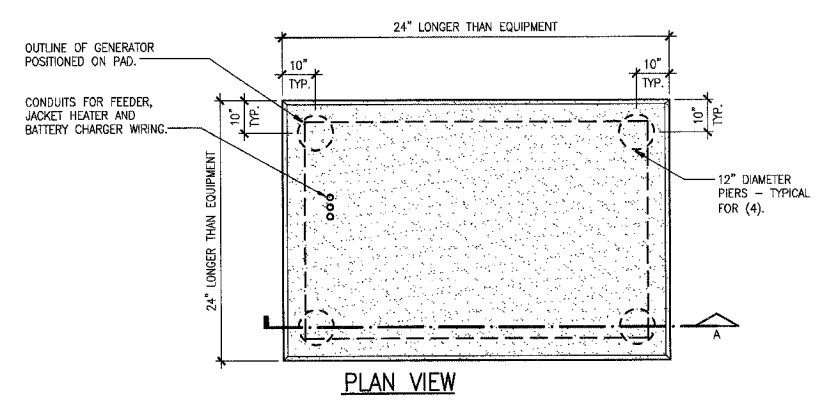
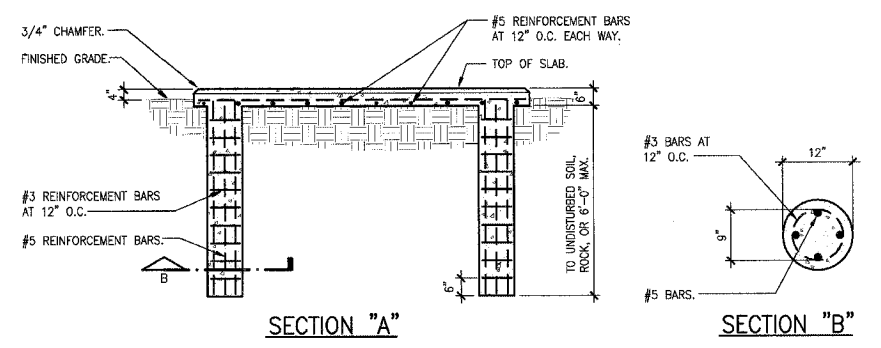


C SITE LIGHTING FIXTURE FOUNDATION DETAIL
NO SCALE

THIS DETAIL TYPICAL FOR FIXTURE TYPES K AND N.



A SITE LIGHTING FIXTURE DETAIL "TYPE N"
NO SCALE



B GENERATOR PAD DETAIL
NO SCALE

P:\2002\10-02048\B0005C\EA6-02.DWG | 7/2/2007 10:19:32 AM | Xref: TB6436C.DWG | imogias.none

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PHASE 2A
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
LIGHTING FIXTURE SCHEDULE

DATE	
REMARKS	
REV. NO.	

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

EA7-01

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LIGHTING FIXTURE SCHEDULE

TYPE	VOLTS	FIXTURE TYPE	MOUNTING	LAMPS	REFLECTOR/DIFFUSER	FEATURES	APPROVED MANUFACTURERS
A	120	4"x1' FLUORESCENT VANDAL RESISTANT	SURFACE - WALL EXISTING ROUGH-IN IN STAIR TOWER - SEE ELEVATIONS FOR ADDITIONAL INFORMATION	(2) F3219/TL835 PLUS/ALTO	.156 CLEAR PRISMATIC ACRYLIC LENS	16 GUAGE STEEL HOUSING, ELECTRONIC 0' START COLD WEATHER BALLAST, WHITE POWER COAT FINISH	FAILSAFE FWS-232-120-EB81 LITHONIA DAYBRITE COLUMBIA
B	120	FLUORESCENT WALL SCONCE	SURFACE - WALL	(1) PL-L 36W/830	OPAL GLASS DIFFUSER	ELECTRONIC BALLAST WITH -15' STARTING, CUSTOM COLOR	BEGA 4482P
C	120	4"x1' FLUORESCENT VANDAL RESISTANT	SURFACE - WALL	(2) F032/830/ECC	.156 CLEAR PRISMATIC ACRYLIC LENS	16 GUAGE STEEL HOUSING, ELECTRONIC 0' START COLD WEATHER BALLAST, WHITE POWER COAT FINISH	FAILSAFE FFW-232-120-EB81 LITHONIA DAYBRITE COLUMBIA
D	120	COMPACT FLUORESCENT SURFACE DOWNLIGHT	SURFACE - CEILING	(1) PL-T 42W/830	.225 BOROSILICATE GLASS	CAST ALUMINUM HOUSING, ELECTRONIC 0' START BALLAST, BLACK FINISH, DUAL VOLTAGE BALLAST	FAILSAFE RDS-12-42CT-DT-BK LITHONIA DAYBRITE COLUMBIA
E	120	4'-0" LINEAR FLUORESCENT	SURFACE - CEILING	(1) F54T5/830/HO	SEMI SPECULAR ALUMINUM REFLECTOR WITH ACRYLIC LINEAR DIFFUSING LENS	20 GUAGE STEEL HOUSING, RECTANGULAR PROFILE, ELECTRONIC BALLAST, SINGLE CIRCUIT, TITANIUM SILVER FINISH	FOCAL POINT FMEC-4-1T5HO-1C-120-5-CM-TS
F	120	2'-0" LINEAR FLUORESCENT	SURFACE - CEILING	(1) F24T5/830/HO	SEMI SPECULAR ALUMINUM REFLECTOR WITH ACRYLIC LINEAR DIFFUSING LENS	20 GUAGE STEEL HOUSING, RECTANGULAR PROFILE, ELECTRONIC BALLAST, SINGLE CIRCUIT, TITANIUM SILVER FINISH	FOCAL POINT FMEC-2-1T5HO-1C-120-5-CM-TS
G	120	HID INGROUND LANDSCAPE FIXTURE	INGROUND	(1) CDM35/T6/830	BOROSILICATE LENS WITH CAST ALUMINUM GUARD	DIE CAST ALUMINUM HOUSING, HIGH POWER FACTOR BALLAST, SINGLE 60° OPENING, BLACK FINISH	BEGA 8714MH
H	120	COMPACT FLUORESCENT FIXTURE	SURFACE - WALL 36" ABOVE THE BOTTOM OF THE PIT	(1) PL-C 15MM 22W	POLYCARBONATE GLOBE	DIE CAST ALUMINUM HOUSING, DARK BRONZE FINISH, NORMAL POWER FACTOR BALLAST, UL LISTED WET LOCATION	HALO H2432BZ CAPRI FWY14 (FDR 2XCFT7W/G23 FLUORESCENT) LITHONIA WPOW-22DTT PRESCOLITE WB13-2
J		NOT USED					
K	120	HID LIGHT COLUMN	POLE MOUNTED SEE DETAIL 7, SHEET E6-01	(1) CDM150/T6/830	ANODIZED ALUMINUM REFLECTOR	STAINLESS STEEL FINISH, IP66	LUMEC-SCHREDER NEC-150MH-120-SS
L	120	INCANDESCENT UNDERWATER FLOOD LIGHT	GROUND MOUNTED SEE DETAIL ON DRAWINGS	(1) 35AR111/SSP4	-	PROVIDE FIXTURE MANUFACTURER'S TRANSFORMER, WATTAGE AS REQUIRED.	LUMASCAPE LS265A-3 OR APPROVED EQUAL
M	208	HID FLOODLIGHT ASSEMBLY	POLE MOUNTED SEE DETAIL D, SHEET E6-01	(1) MH1000/U FOR EACH FLOODLIGHT	IES BEAM 8X26 - SPOT 154° TILT IES BEAM 13X53 - FLOOD 140° TILT IES BEAM 13X84 - FLOOD 122° TILT	ALUMINUM POLE WITH THREE HEAD BRACKET, DECORATIVE BASE COVER, 2" SLIPFITTER MOUNTING FOR FLOODLIGHT, FOUR SIDE SHIELD, BLACK FINISH	STERNER 595-SF-45-924-H-208-E STERNER 595-SF-45-1250-H-208-E STERNER 595-SF-45-1270-H-208-E HAPCO 51-007 POLE AND 63-006 ARM
N	208	HID SITE LIGHTING LUMINAIRE	POLE MOUNTED SEE DETAILS A AND C, SHEET E6-02	(1) MH400/U	SEGMENTED ALUMINUM TYPE 3	ALUMINUM POLE, UL LISTED WET LOCATION, GASKETED, PLATINUM SILVER FINISH, HIGH POWER FACTOR BALLAST	KIM 1A-AR3-400MH208-PSP-PSA25-5188 GARDCO GULLWING INVUE
P	120	IN-GROUND FLOODLIGHT	GROUND	(1) 70W METAL HALIDE	GRIP GLASS	-	LUMASCAPE LS343-22NSX104-GG-HT OR APPROVED EQUAL
X	120	SINGLE FACE EXIT SIGN	SURFACE - WALL	LIGHT EMITTING DIODES FURNISHED WITH THE FIXTURE	-	SINGLE FACE, RED LETTERS ON WHITE BACKGROUND, UL LISTED OUTDOOR WET LOCATION, DIE CAST ALUMINUM HOUSING	FAILSAFE XLH-1-RW

RELAY PANEL "RP"

RELAY NUMBER	PANEL AND CIRCUIT NUMBER	RELAY CONTROL ZONE	CONTROL ZONE LOCATION	PRIMARY CONTROL SOURCE	SECONDARY CONTROL SOURCES	NOTES
1	LP-41	a	Coil in Contactor C1	PC	none	1
2	LP-41	b	Coil in Contactor C2	PC	TC	2
3	LP-6	c	South Plaza Ltg.	PC	none	3
4	LP-8	d	North Plaza Ltg.	PC	none	3
5	LP-2	e	Exterior Bldg. Ltg.	PC	none	3
6	LP-4	f	Exterior Bldg. Ltg.	PC	none	3
7	LP-2	g	Water Wall Lighting	PC	TC	2
8	LP-4	h	Water Wall Lighting	PC	TC	2
9	LP-16	j	Water Wall Lighting	PC	TC	2
10	LP-18	k	Water Wall Lighting	PC	TC	2
11	LP-20	m	Water Wall Lighting	PC	TC	2
12	LP-22	n	Water Wall Lighting	PC	TC	2
13	LP-10	p	Fountain Lighting	PC	TC	2
14	space relay	q				
15	space relay	r				
16	space relay	s				
17	space relay	t				
18	space relay	u				
19	space relay	v				
20	space relay	w				
21	space relay	x				
22	space relay	y				
23	space relay	z				
24	space relay	aa				
25	space for spare relay	bb				
26	space for spare relay	cc				
27	space for spare relay	dd				
28	space for spare relay	ee				
29	space for spare relay	ff				
30	space for spare relay	gg				
31	space for spare relay	hh				
32	space for spare relay	ii				

CONTROL SOURCE LEGEND
PC = PHOTOCCELL
TC = TIME CLOCK (within relay panel controller)

NOTES
Note 1 - Photocell controls coil of contactor (via relay) to turn lights "ON" and "OFF" (dusk to dawn operation).
Note 2 - Photocell controls coil of contactor (via relay) to turn lights "ON", time clock controls coil of contactor (via relay) to turn lights "OFF".
Note 3 - Photocell controls relay to turn lights "ON" and "OFF" (dusk to dawn operation).

NOTE
EXISTING RELAY PANEL FURNISHED UNDER A PREVIOUS CONSTRUCTION PHASE. ALL RELAYS ARE EXISTING. RELAYS 3 AND 5 ARE UTILIZED FROM A PREVIOUS CONSTRUCTION PHASE AND ARE TO REMAIN. ALL OTHER EXISTING RELAYS ARE FOR NEW LOADS INSTALLED AS PART OF THIS CONTRACT.

