

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
03-00026-00-PK 06-00026-01-MS		MADISON	51	1

FEDERAL AID PROJECT

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

LEWIS & CLARK TOWERS

- STANDARDS
 000001-05
 001001-01
 280001-04
 424001-05
 542301-01
 542546
 602401-01
 604001-02
 606001-03
 606401
 701001-01
 701301-02
 701501-04
 701901
 780001-01
 BLR14-9

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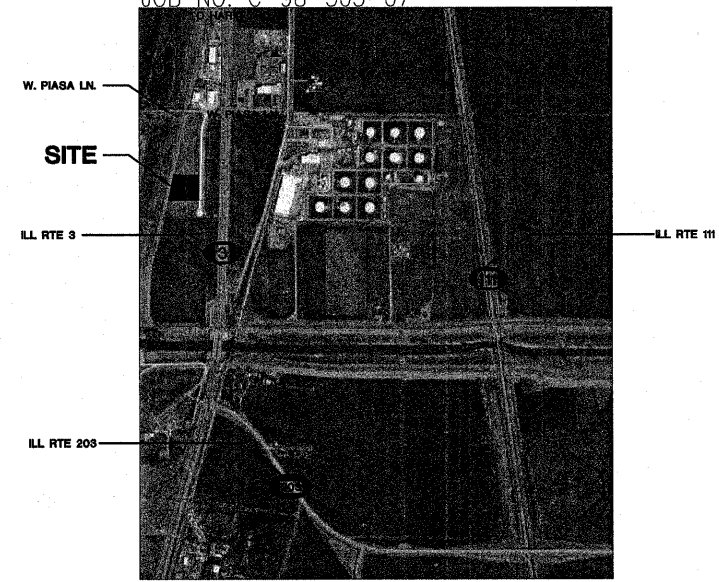
SCENIC BYWAY FUNDS:

SECTION 03-00026-00-PK/06-00026-01-MS

PROJECT NO. SBIL-TE-00D8(113)

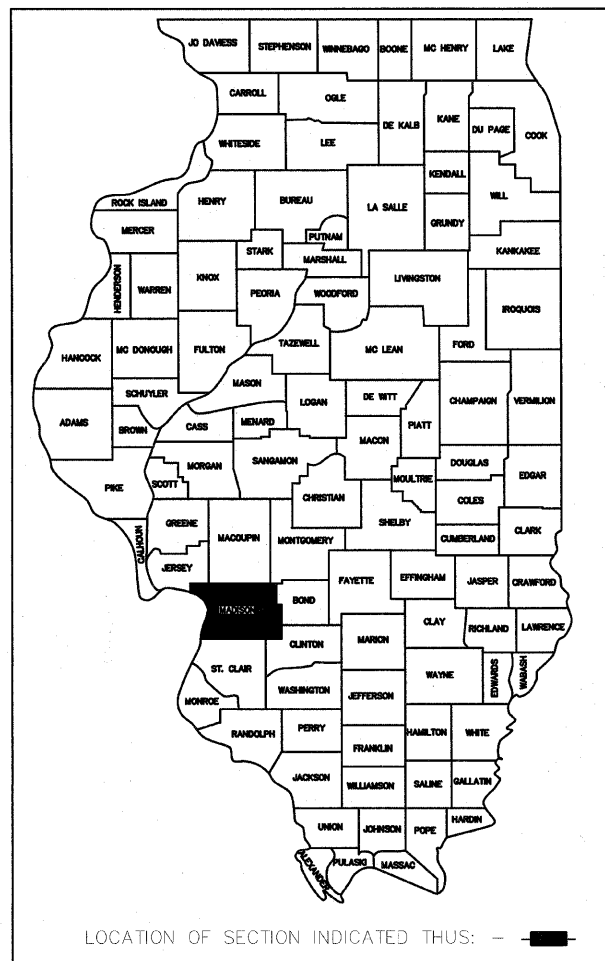
VILLAGE OF HARTFORD

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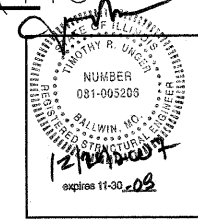


LOCATION MAP

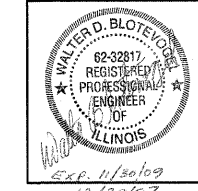
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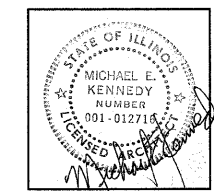
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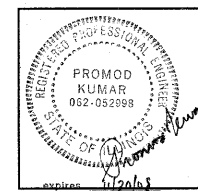
STRUCTURAL ENGINEER
S.S.E. INC.
 138 W. CLINTON PLACE
 ST. LOUIS, MO 63122
 PH. (314) 965-2233
 FAX (314) 965-8269



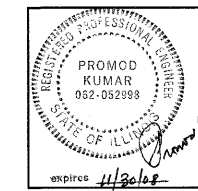
CIVIL ENGINEER/ LAND SURVEY
BLOTEVOGEL ASSOC. INC.
 2 GINGER CREEK PARKWAY
 GLEN CARBON, IL 62034
 PH. (618) 656-4166
 FAX (618) 656-7127



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.) CHARTER COMMUNICATIONS (CABLE)
 PO BOX 66529
 ST. LOUIS, MO 63166
 1-800-552-7583

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

1048 STATE ST.
 EAST ST. LOUIS, IL 62201
 1-800-211-4450

721 MISSOURI AVE
 EAST ST. LOUIS, IL 62201
 618-875-9856

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

CONTRACT NO. **97331**

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED DATE December 21 2007
William Moore Jr.
WILLIAM MOORE JR. BOARD PRESIDENT

PASSED Jan 4 2008
[Signature]
DISTRICT #8 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW Jan 4 2008
Wm. P. Davis Jr.
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.
	03-00026-00-PK 06-00026-01-MS	MADISON	51	2

SUMMARY OF QUANTITIES

CODED PAY ITEM	DESCRIPTION	UNIT	QUANT.	SBIL	ITEP	CONST. TYPE CODE Y 021	VILLAGE 20%	VILLAGE 100%
20200100	EARTH EXCAVATION	CU YD	14,798	7,779.0	7,019.0	11,838.4	2,959.6	
20800150	TRENCH BACKFILL	CU YD	24.3		24.3	19.4	4.9	
25000910	SEEDING, CLASS 1 (MODIFIED)	ACRE	3.2	2.0	1.2	2.6	0.6	
25001850	SEEDING, CLASS 7 (MODIFIED)	ACRE	0.2	0.2		0.16	0.04	
25100630	EROSION CONTROL BLANKET	SO YD	749	749.0		599.2	149.8	
25200100	SODDING	SO YD	376		376.0	300.8	75.2	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,040	520.0		832.0	208.0	
28000300	TEMPORARY DITCH CHECKS	EACH	1	1.0		0.8	0.2	
28000400	PERIMETER EROSION BARRIER	FOOT	1,275	830.0	445.0	1,020.0	255.0	
28000500	INLET AND PIPE PROTECTION	EACH	2	2.0		1.6	0.4	
28100707	STONE DUMPED RIPRAP, CLASS A4	SO YD	35	22.0	13.0	28.0	7.0	
28200200	FILTER FABRIC	S YD	35	22.0	13.0	28.0	7.0	
30200650	PROCESSING MODIFIED SOIL, 12"	SO YD	6,123	2,722.0	3,401.0	4,898.4	1,224.6	
30201500	LIME	TON	104	39.0	65.0	83.2	20.8	
31100100	SUB-BASE GRANULAR MATERIAL, TYPE A	TON	2,730	1,348.0	1,382.0	2,184.0	546.0	
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,165	575.0	590.0	932.0	233.0	
40603085	HOT MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	492	243.0	249.0	393.6	98.4	
40603315	HOT MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	492	243.0	249.0	393.6	98.4	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	265	199.0	66.0	212.0	53.0	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SO FT	10,445	5,856.0	4,589.0	8,356.0	9,267.0	
42400800	DETECTABLE WARNINGS	SO FT	48	8.0	40.0	38.4	9.6	
542A0229	PIPE CULVERTS, CLASS A, TYPE 1, 24"	FOOT	164	164.0		131.2	32.8	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 15"	EACH	1		1.0	0.8	0.2	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 24"	EACH	4	4.0		3.2	0.8	
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	1		1.0	0.8	0.2	
550A0070	STORM SEWERS, CLASS A, TYPE 1, 15"	FOOT	87		87.0	69.6	17.4	
56200900	WATER SERVICE LINE 2 1/2"	FOOT	42	42.0		33.6	8.4	
60600605	CONCRETE CURB, TYPE B	FOOT	1,959	947.0	1,012.0	1,567.2	391.8	
60614600	PAVED DITCH (SPECIAL)	FOOT	147		147.0	117.6	29.4	
67100100	MOBILIZATION	L SUM	1	0.3868	0.8132	0.8	0.2	
70101700	TRAFFIC CONTROL & PROTECTION	L SUM	1	0.5	0.5	0.8	0.2	
70102620	TRAFFIC CONTROL & PROTECTION STANDARD 701501	L SUM	1	0.5	0.5	0.8	0.2	
72000100	SIGN PANEL - TYPE 1	SO FT	43	27.0	16.0	34.4	8.6	
73000100	WOOD SIGN SUPPORT	FOOT	204	156.0	48.0	163.2	40.8	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SO FT	98	14.0	84.0	78.4	19.6	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE, 4"	FOOT	3,596	1,444.0	2,152.0	2,876.8	719.2	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE, 12"	FOOT	5	5.0		4.0	1.0	
X0322587	CONSTRUCTION ACCESS	EACH	1		1.0	0.8	0.2	
X0323256	REMOVE AND RELOCATE FLAGPOLE	EACH	1		1.0	0.8	0.2	
* X5640175	FIRE HYDRANT COMPLETE	EACH	1		1.0	0.8	0.2	
* XX003526	DUCTILE IRON WATER MAIN FITTINGS, 8" X 6" REDUCER	EACH	1		1.0	0.8	0.2	
* XX003543	DUCTILE IRON WATER MAIN FITTINGS, 8" 45 DEGREE BEND	EACH	1		1.0	0.8	0.2	
* XX003803	SANITARY SEWER SERVICE 6"	FOOT	43	43.0		34.4	8.6	
XX003949	CONSTRUCTION STAKING	L SUM	1		1.0	0.8	0.2	
XX005452	FENCE RAIL	FOOT	265	265.0		212.0	53.0	
* XX007056	BUILDING	L SUM	1	0.3291	0.6709	0.8	0.2	
* XX007058	FUSION WELDED PIPE, 8" HIGH DENSITY POLYETHYLENE, SDR-11, 160 PSI	FOOT	633		633.0	506.4	126.6	
XX007059	MANHOLES (LEAKAGE TESTING)	EACH	2		2.0	1.6	0.4	
XX007060	MANHOLES, TYPE A, 4' DIAMETER, WATERPROOF FRAME & BOLTED LID	EACH	2		2.0	1.6	0.4	
XX007061	OUTFALL STRUCTURE	EACH	1		1.0	0.8	0.2	
* XX007062	REMOVE EXISTING CAP	EACH	1		1.0	0.8	0.2	
* XX007063	REMOVE EXISTING PLUG	EACH	1		1.0	0.8	0.2	
* XX007064	WATER MAIN TRACER WIRE	FOOT	340		340.0	272.0	68.0	
* XX007065	WATER METER	EACH	1		1.0	0.8	0.2	

* - 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.
- 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 1900
St. Louis, Missouri 63102
Tel: 314.434.1111
Fax: 314.434.1025



LEWIS AND CLARK
MEMORIAL TOWER

HARTFORD, ILLINOIS 62048

SHEET TITLE:
GENERAL NOTES
SUMMARY OF QUANTITIES

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
10-02048

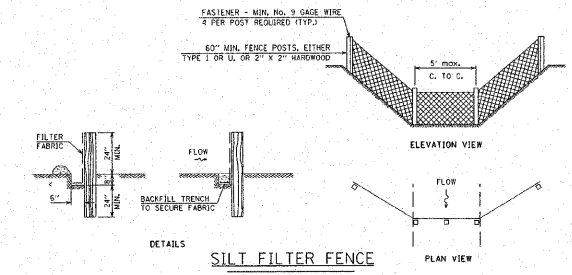
ISSUE DATE

SHEET NO.

C-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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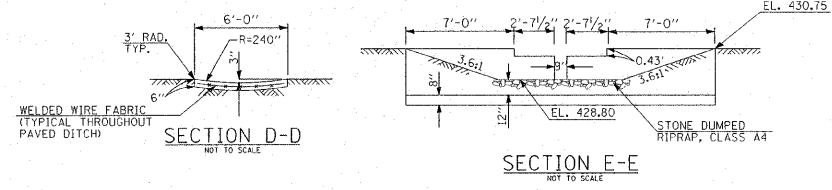
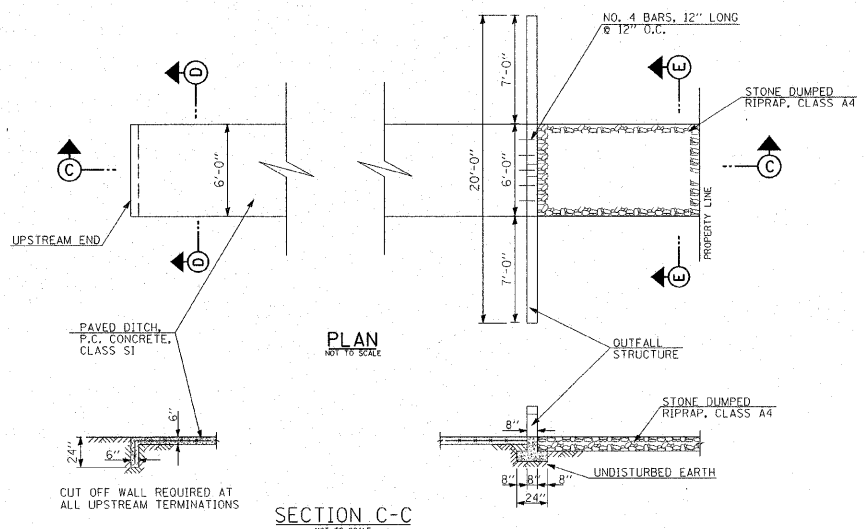
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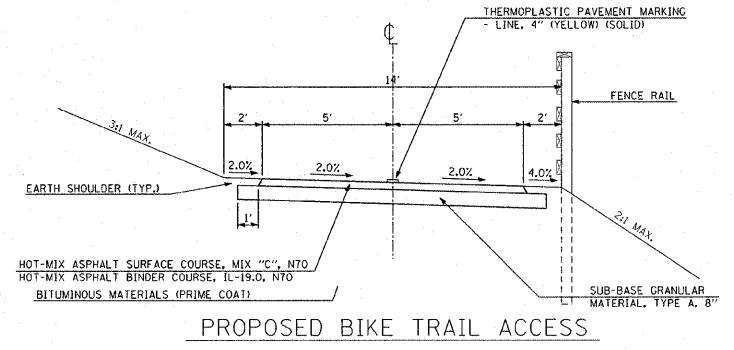
- ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE, WITH THE ENDS EXTENDING UPSLOPE. THE AREA BELOW THE FENCE MUST BE UNDISTURBED OR STABILIZED.
- WOOD POSTS WILL BE OF SOUND QUALITY WOOD WITH A MIN. CROSS SECTIONAL AREA OF 3.0 SQ. IN. STEEL POSTS WILL BE STANDARD T AND U SECTIONS WEIGHING NOT LESS THAN 1.0 LBS./L.F. THE MAX. SPACING WILL BE 5 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 POND.
- 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 HOD 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:

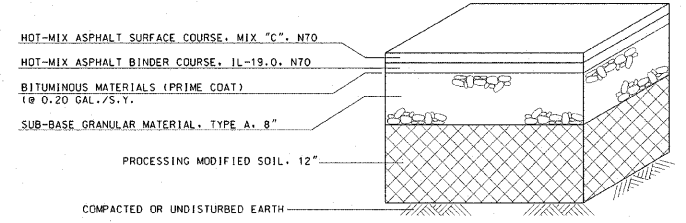
- PERIMETER EROSION BARRIER (SILT FENCE) SHALL BE ERECTED PRIOR TO EXCAVATION AND CLEARING IN THE UPSLOPE AREA.
- THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE PROPERLY MAINTAINED BY THE CONTRACTOR TO CONTROL SILTATION AT ALL TIMES DURING THE LIFE OF THE CONTRACT.
- AT ALL TIMES, EROSION CONTROL MEASURES 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 10 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.



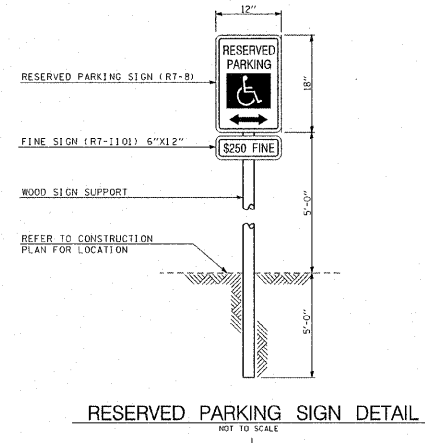
PAVED DITCH & OUTFALL STRUCTURE
NOT TO SCALE
STA. 10+08.50 TO STA. 11+53



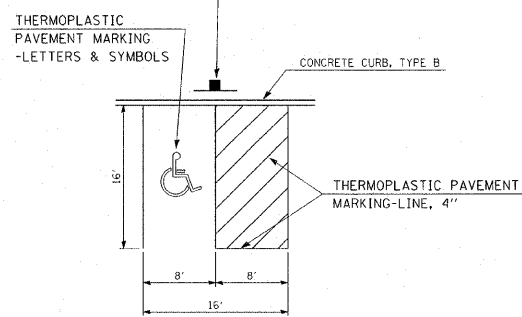
PROPOSED BIKE TRAIL ACCESS



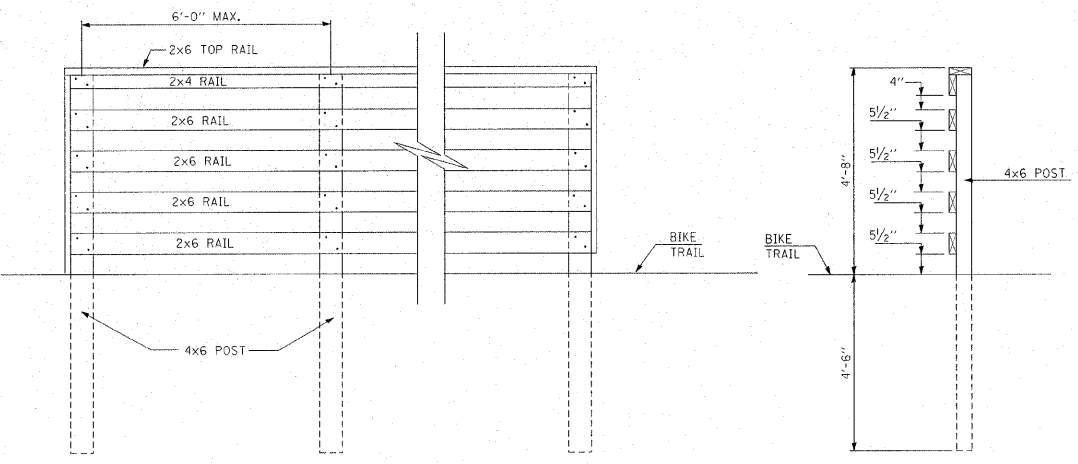
TYPICAL PARKING LOT SECTION
NOT TO SCALE



RESERVED PARKING SIGN DETAIL
NOT TO SCALE



THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS



INSIDE RAIL ELEVATION SECTION A-A
FENCE RAIL DETAILS
STA. 1+11.40 TO STA. 3+67.13

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	IL 19.0
FRICTION AGG	MIXTURE C	MIXTURE B

- 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
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St. Louis, Missouri 63102
PH: (314) 241-9388
FAX: (314) 241-0125



LEWIS AND CLARK
MEMORIAL TOWER
HARTFORD, ILLINOIS 62048

SHEET TITLE:
DETAILS

DATE	
REMARKS	
REV. NO.	

KENNEDY PROJECT NO
10-02048

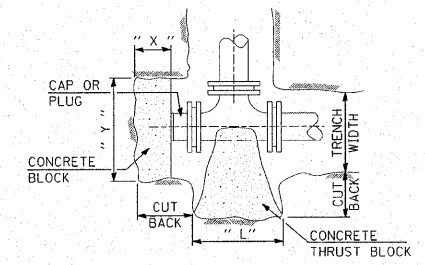
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SHEET NO.

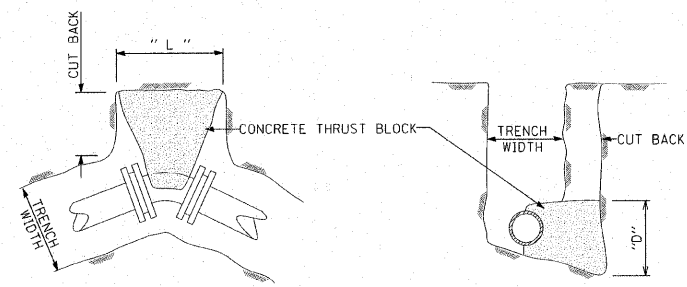
C-02

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	51	4

THRUST BLOCKING SCHEDULE						
PIPE SIZE	BENDS				TEES	
	1/4 OR 90°	1/2 OR 45°	1/2 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



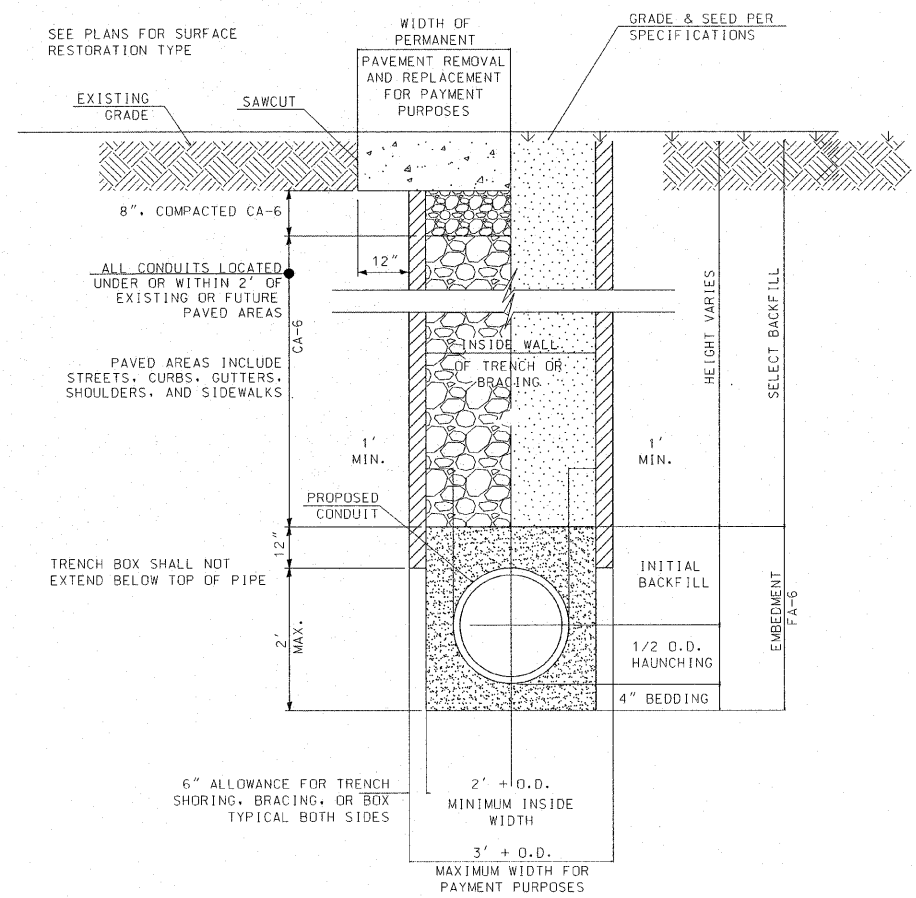
PLAN OF TEES & PLUGS
Y = SQ. FT. OF THRUST BLOCK AREA
X = 1/3 x Y OR 8" WHICHEVER IS LARGER



PLAN OF BENDS

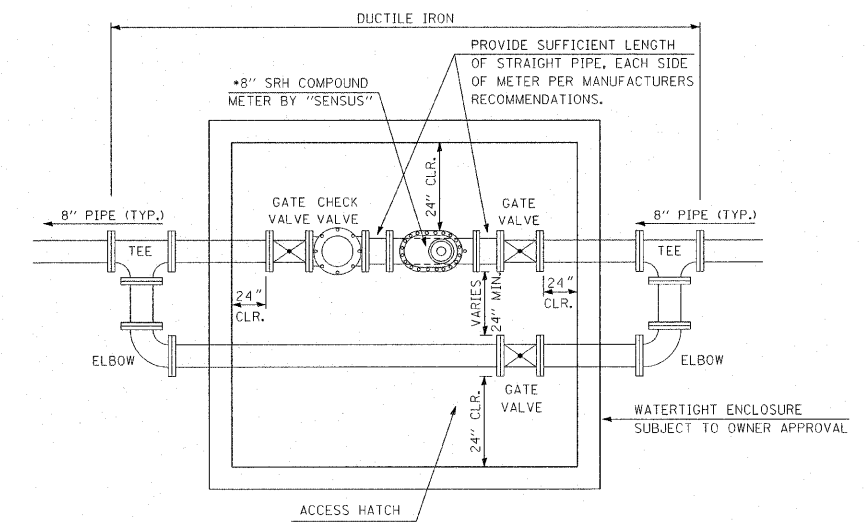
SECTION

NOTE: THRUST BLOCKING AREA = L x D



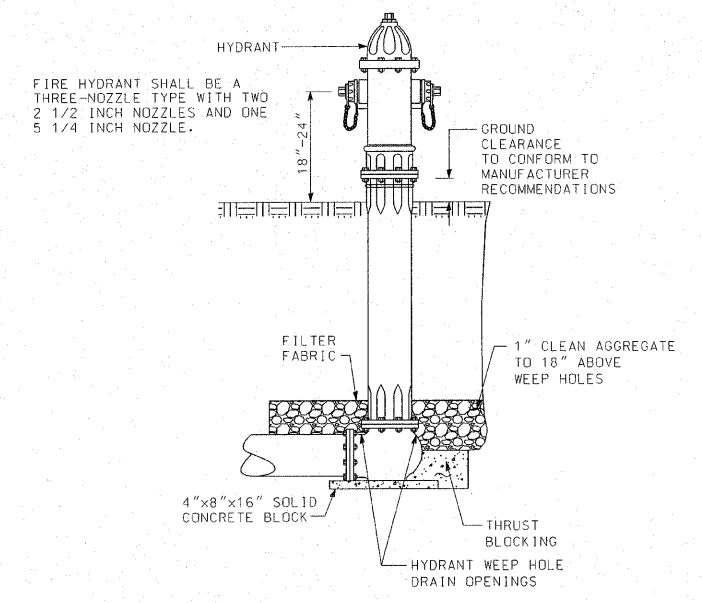
TRENCH DETAIL
NOT TO SCALE

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.



FIRE HYDRANT DETAIL
NOT TO SCALE

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

- 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)
- WATER MAIN PIPE SHALL HAVE A MINIMUM COVER OF 42" FROM THE FINISHED GRADE TO THE TOP OF PIPE.
- GATE VALVES SHALL BE CONSTRUCTED OF DUCTILE IRON WITH MECHANICAL JOINT OUTLETS AND A RESILIENT SEAT WEDGE SHUT OFF DESIGN.
- VALVE BOX AND COVER SHALL BE CONSTRUCTED OF CAST IRON. THE VALVE BOX LID SHALL BE STAMPED "WATER".
- 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.
- ALL FITTINGS (BENDS, TEES, CROSSES, ETC.) SHALL BE CONSTRUCTED OF DUCTILE IRON WITH MECHANICAL JOINT OUTLETS. CONVENTIONAL RETAINING GLANDS ARE ACCEPTED.
- TRACER WIRE SHALL BE NO. 12 GAUGE RUBBER COATED INSULATED SOLID COPPER WIRE WITH A THREE (3) FOOT LONG COIL AT EACH END.
- 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.
- THRUST BLOCKING SHALL BE CONSTRUCTED ACCORDING TO SECTION 41-2.09 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.
- CHLORINE SHALL BE USED FOR DISINFECTION ACCORDING TO SECTION 41-2.148 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.
- 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.
- BACTERIOLOGICAL WATER SAMPLING OF ALL NEW WATER MAINS SHALL BE PERFORMED BY THE CONTRACTOR IN COOPERATION WITH THE HARTFORD PUBLIC WORKS DEPARTMENT.
- 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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fax. (314) 241-8125



LEWIS AND CLARK
MEMORIAL TOWER
HARTFORD, ILLINOIS 62048

SHEET TITLE:
WATER MAIN DETAILS

DATE	
REMARKS	
REV. NO.	

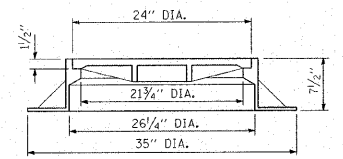
KENNEDY PROJECT NO
10-02048

ISSUE DATE

SHEET NO.

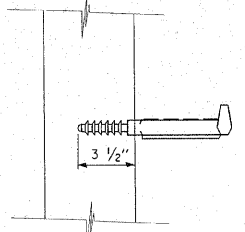
C-03

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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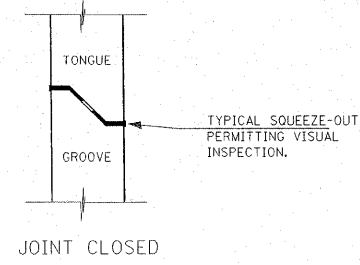
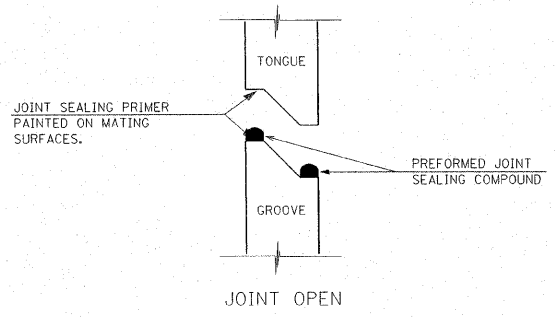
WATERPROOF FRAME AND BOLTED LID

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.

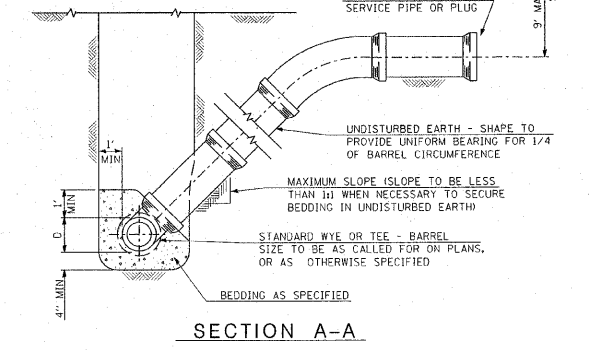
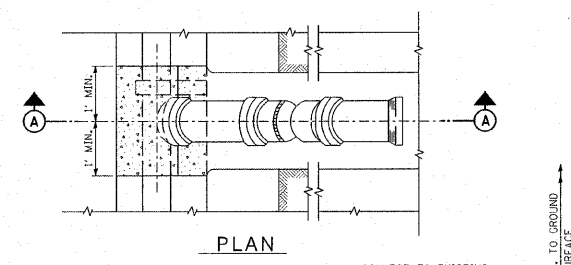


MANHOLE STEP, PLASTIC
NOT TO SCALE

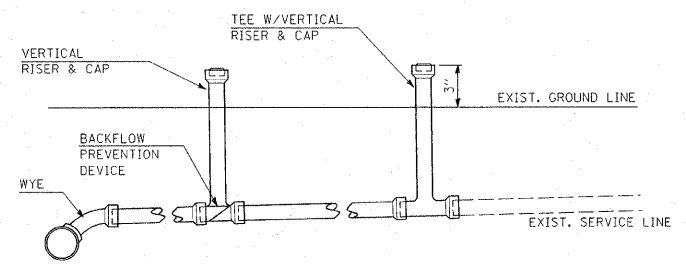
STEPS SHALL BE MADE OF A 3/8" REINFORCING ROD ENCAPSULATED IN A COPOLYMER POLYPROPYLENE PLASTIC AND CONFORMING TO O.S.H.A. REQUIREMENTS.
STEPS SHALL BE 12" WIDE WITH 10" LEGS AND 12" O.C. VERTICAL.



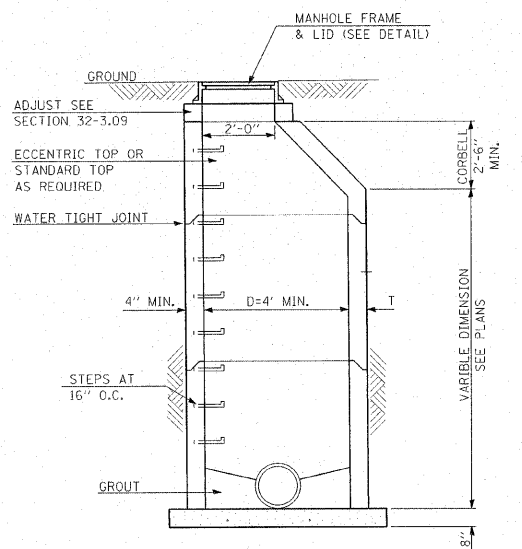
WATER TIGHT JOINT DETAIL
NOT TO SCALE



TYPICAL RISER FOR SERVICE LATERAL
NOT TO SCALE



TYPICAL CLEAN OUT DETAIL



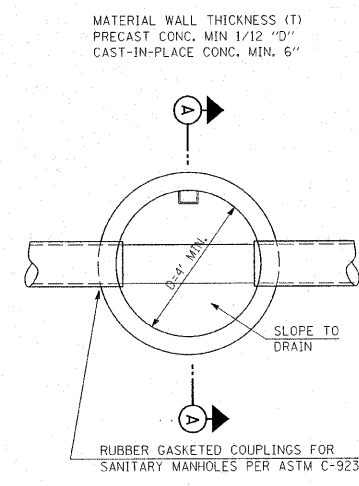
BOTTOM SLAB: 3500 PSI CONCRETE OR PRECAST REINFORCED CONCRETE SLAB ON 6" SAND CUSHION BOTTOM SLAB, MAY BE PRECAST MONOLITHIC WITH MANHOLE WALL SECTION

SECTION A-A

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 C-03 FOR SANITARY SEWER INSTALLATION-OPEN CUT INSTALLATION (IF NECESSARY).

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KLENNLEIDY
KENNEDY



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

SHEET TITLE:
SANITARY SEWER DETAILS

DATE	
REMARKS	
REV. NO.	

KENNEDY PROJECT NO
10-02048

ISSUE DATE

SHEET NO.

C-04

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	51	6

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



Call 48 hours before you dig!! (Excluding Sat., Sun. & Holidays)

Joint Utility Locating Information for Excavators

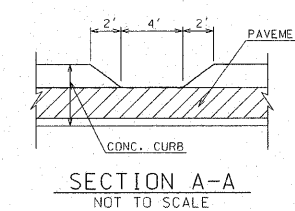
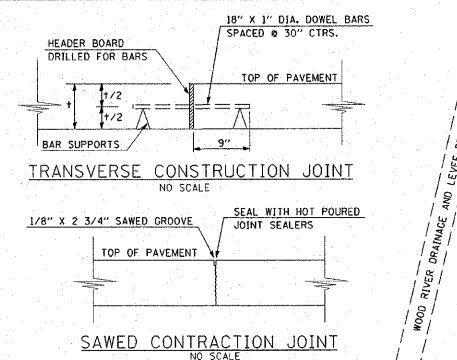
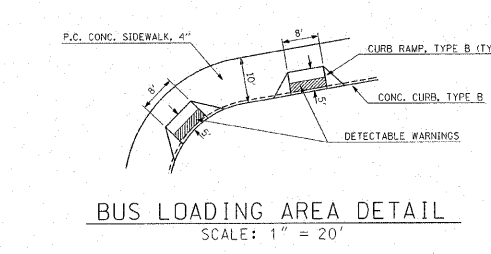
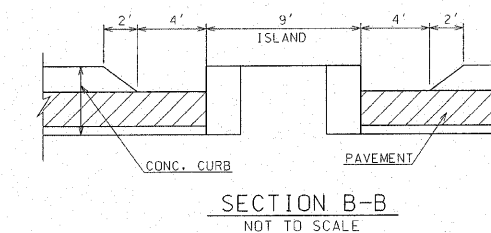
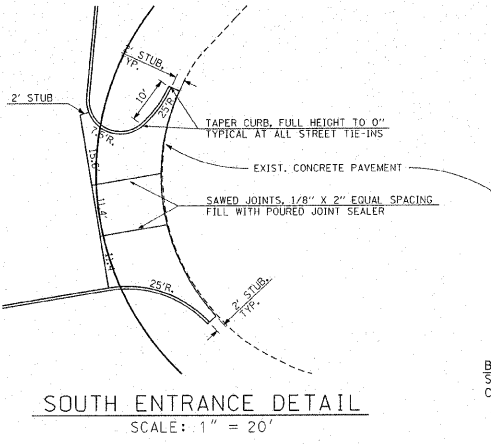
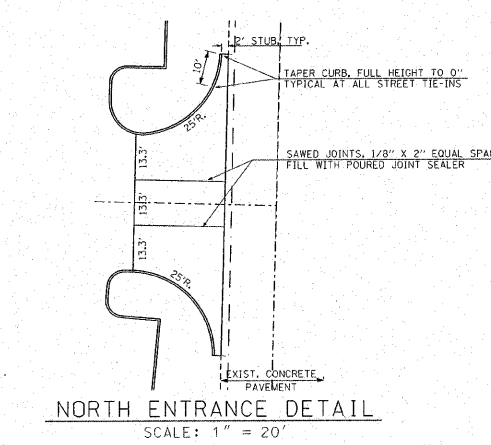


LEWIS AND CLARK MEMORIAL TOWER

CONSTRUCTION PLAN

KENNEDY PROJECT NO 10-02048

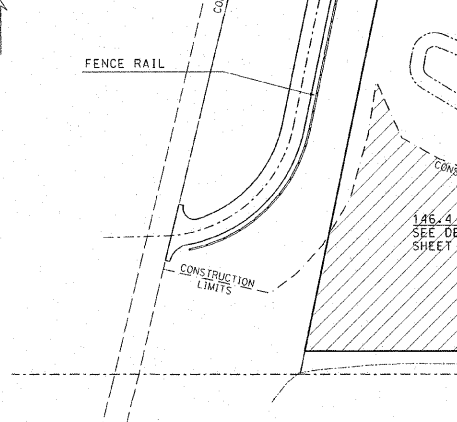
SHEET NO. C-05



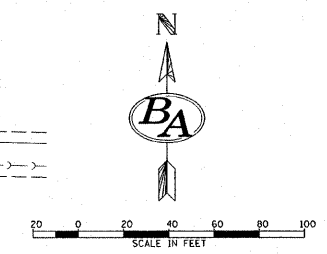
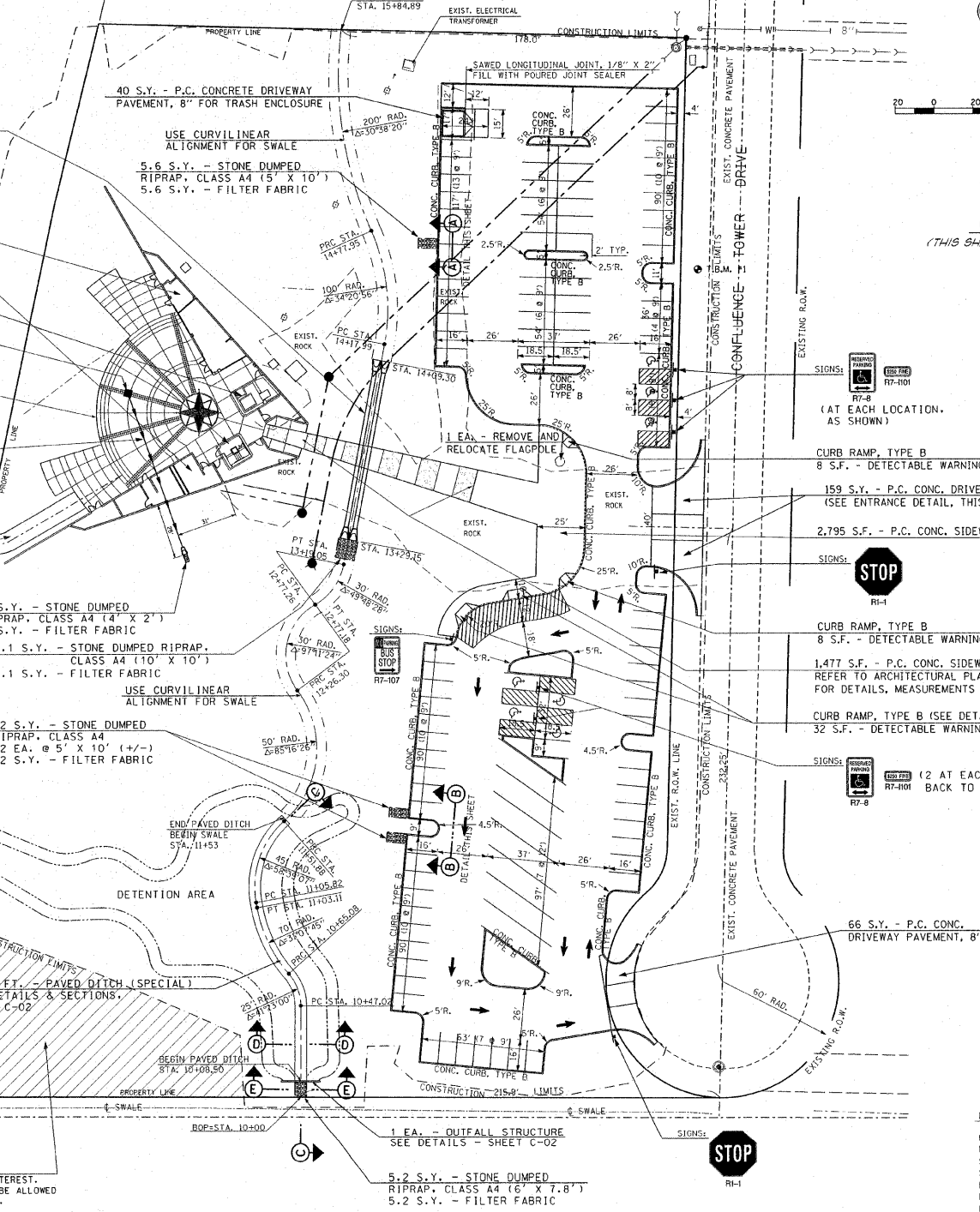
- 2 CULVERTS = EACH AS FOLLOWS:
81.7 FT. - PIPE CULVERTS, CLASS A,
T1, 24", @ 0.18%
F.L. - 430.43(N); F.L. - 430.29(S)
4 EA. - PRECAST REINFORCED CONCRETE
FLARED END SECTIONS, 2A"
- 1 L.S. - BUILDING
(FOR BUILDING - SEE
ARCHITECTURAL PLANS)
- EXIST. STRUCTURES
- 1 EA. - FLUSH INLET BOX FOR
MEDIAN, STANDARD 542546
TOP - 434.83; F.L. - 431.01
- 5,173 S.F. - P.C. CONC. SIDEWALK, 4"
(SEE PLAZA PAVING NOTE THIS SHEET)
REFER TO ARCHITECTURAL PLANS AND
SPECIFICATIONS FOR MEASUREMENTS
AND SLOPES OF PLAZA AREA
- 86.2 FT. - STORM SEWER, CLASS A,
TYPE 1, 15" @ 0.50%
1 EA. - PRECAST REINFORCED CONCRETE
FLARED END SECTIONS, 15"
(F.L. - 430.50)
- 24.3 C.Y. - TRENCH BACKFILL

BIKE TRAIL ACCESS PATH
SEE DETAILS - SHEETS C-02,
C-08, C-09 AND C-10

- 1 S.Y. - STONE DUMPED
RIPRAP, CLASS A4 (4' X 2')
- 1 S.Y. - FILTER FABRIC
- 11.1 S.Y. - STONE DUMPED RIPRAP,
CLASS A4 (10' X 10')
- 11.1 S.Y. - FILTER FABRIC
- USE CURVILINEAR
ALIGNMENT FOR SWALE
- 12 S.Y. - STONE DUMPED
RIPRAP, CLASS A4
- (2 EA. @ 5' X 10' (+/-))
- 12 S.Y. - FILTER FABRIC



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



GENERAL QUANTITIES:
(THIS SHEET ONLY - UNLESS OTHERWISE SPECIFICALLY CALLED OUT)

- PAVEMENT - SEE SHEET "C-02" FOR DETAIL
- 456 TONS - HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70
 - 456 TONS - HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
 - 1,080 GAL. - BITUMINOUS MATERIALS (PRIME COAT)
 - 2,532 TONS - SUBBASE GRANULAR MATERIAL, TYPE A
 - 6,123 S.Y. - PROCESSING MODIFIED SOIL, 12"
 - 104 TONS - LIME
- 1,959 FT. - CONCRETE CURB, TYPE B
- 3,334 FT. - THERMOPLASTIC PAVEMENT MARKING - LINE 4"
- 98 S.F. - THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS

- 159 S.Y. - P.C. CONC. DRIVEWAY PAVEMENT, 8"
(SEE ENTRANCE DETAIL, THIS SHEET)
- 2,795 S.F. - P.C. CONC. SIDEWALK, 4"
- STOP R1-1
- CURB RAMP, TYPE B
8 S.F. - DETECTABLE WARNINGS
- 1,477 S.F. - P.C. CONC. SIDEWALK, 4"
REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS
FOR DETAILS, MEASUREMENTS AND SLOPES IN THIS AREA
- CURB RAMP, TYPE B (SEE DETAIL, THIS SHEET)
32 S.F. - DETECTABLE WARNINGS (2 @ 16 S.F.)
- STOP R7-8 (2 AT EACH LOCATION, MOUNT
BACK TO BACK, AS SHOWN)

SIGNING SCHEDULE (THIS SHEET ONLY)

SIGN	TYPE	SIZE	LETTERS/BACKGROUND	QUAN.	S.F.	POST
R1-1	STOP	30" x 30"	WHITE ON RED	2	12.50	24'
R7-8	RSRVD PRKNG	12" x 18"	BLACK ON WHITE	7	10.50	60'
R7-1101	FINE	12" x 6"	GREEN ON WHITE	7	3.50	-
R7-107	NO PARKING	12" x 18"	RED ON WHITE	1	1.50	12'
TOTAL				QUAN.	18.00	96'

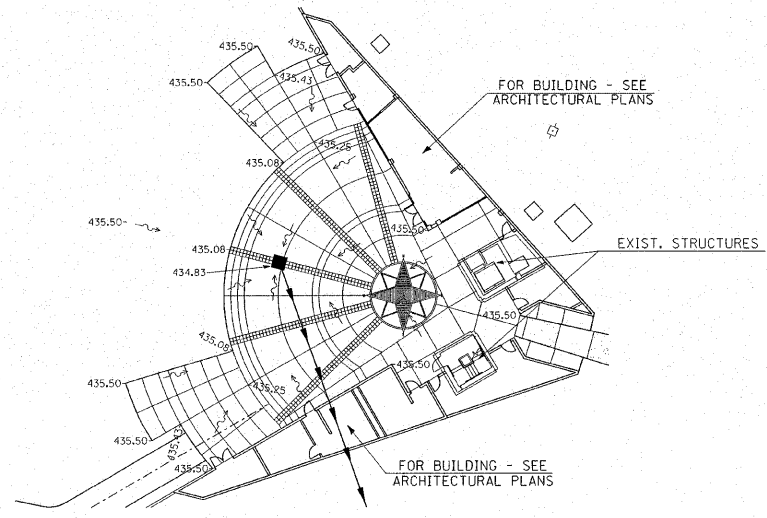
PLAZA PAVING NOTE:
ELEVATIONS SHOWN IN THE PLAZA AREA ARE FINISHED ELEVATIONS. DUE TO THE RELATIVELY FLAT EXPANSE OF THE PLAZA, ALL REQUIRED ELEVATIONS CANNOT BE SHOWN OR DETAILED. CONTRACTOR SHALL INSURE THAT THE COMPLETED SURFACE SLOPES TO FLUSH INLET BOX. CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES 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 RESIDENT ENGINEER. AT ANY CONSTRUCTION JOINT, 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, 4".

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.

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.

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	51	7



PLAZA DETAIL
1" = 20'



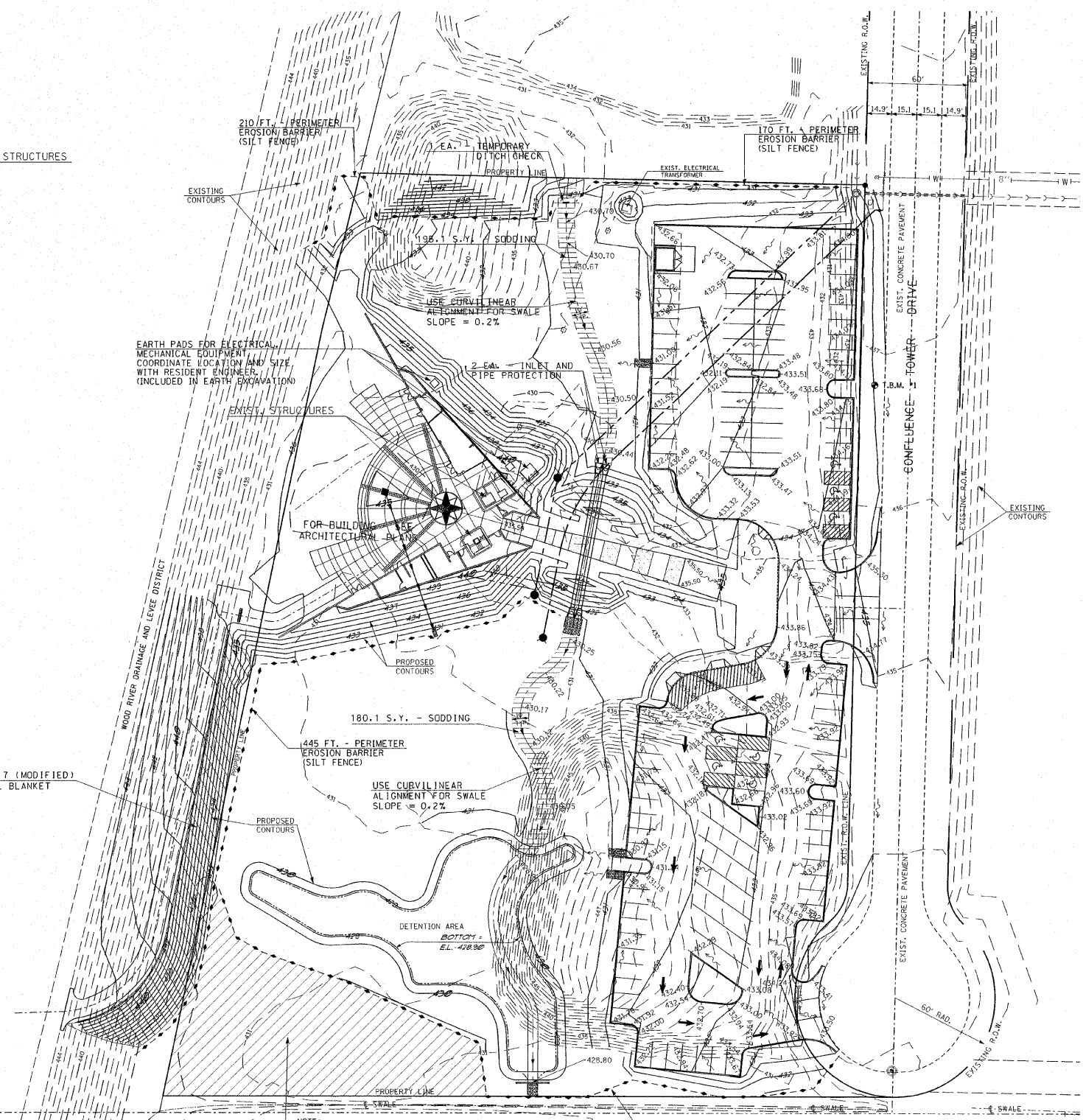
LEGEND

	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.W. 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 X INLET
	PROPOSED AREA INLET
	PROPOSED FIRE HYDRANT
	PROPOSED SIGN
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED WATER LINE
	PROPOSED DITCH FLOWLINE
	EXISTING CONTOUR 500
	EXISTING CONTOUR 501
	EXISTING CONTOUR 502
	EXISTING CONTOUR 503
	PROPOSED CONTOUR
	PERIMETER EROSION BARRIER (SILT FENCE)

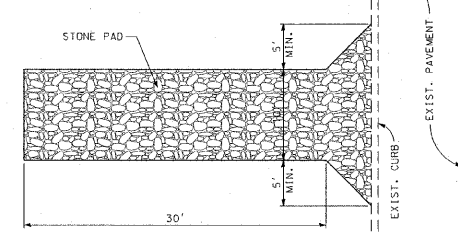
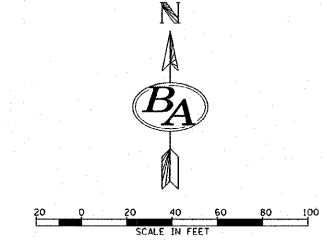
IN ADDITION TO THE EROSION PROTECTION SHOWN, END BERMING, SOIL NAILS, AND ANCHORS SHALL BE SPECIFICALLY DETAILING FOR EACH PROJECT. THIS SHALL BE DONE IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND DEBRIS FROM ENTERING THE STORM SEWER SYSTEM.

DITCH CHECK

0.2 AC. - SEEDING, CLASS 7 (MODIFIED)
749.0 S.Y. - EROSION CONTROL BLANKET



NOTES:
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	14,798 C.Y.
EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	11,099 C.Y.
EMBANKMENT	9,610 C.Y.
EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	+ 1,489 C.Y.

THIS REPRESENTS THE APPROXIMATE VOLUME FOR THIS PROJECT.

- 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 C-02 FOR PAVEMENT DETAILS.
 8. ACCESSIBLE PARKING SPACES SHALL HAVE A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS.

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SHEET TITLE:
GRADING PLAN
EROSION CONTROL PLAN

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO.
10-02048

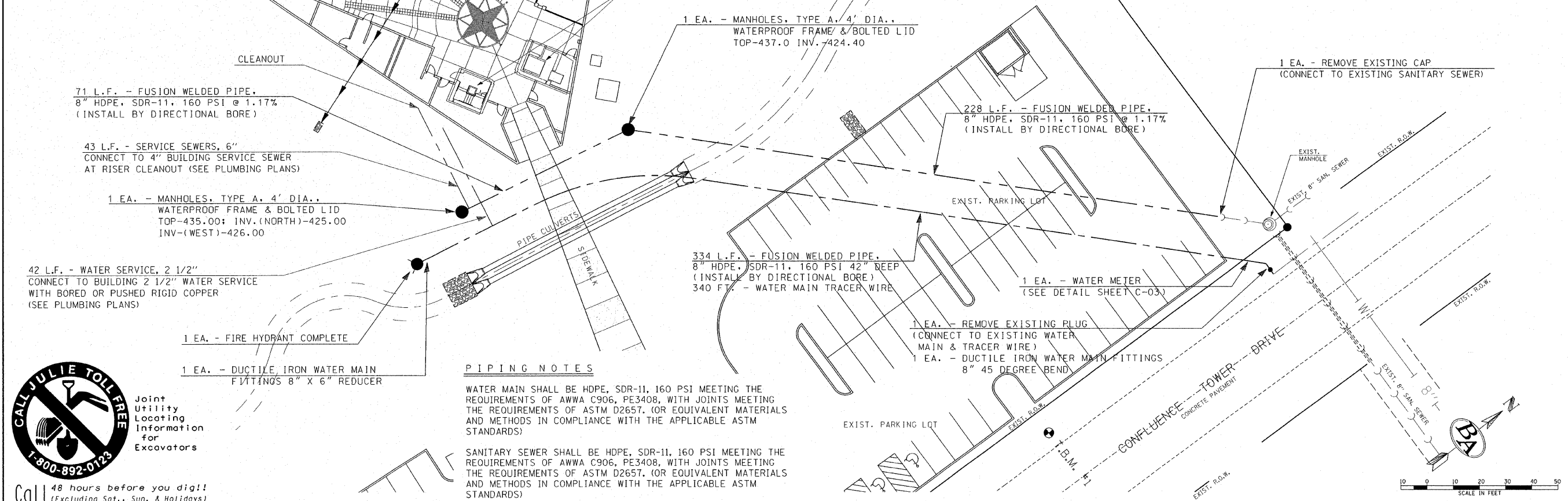
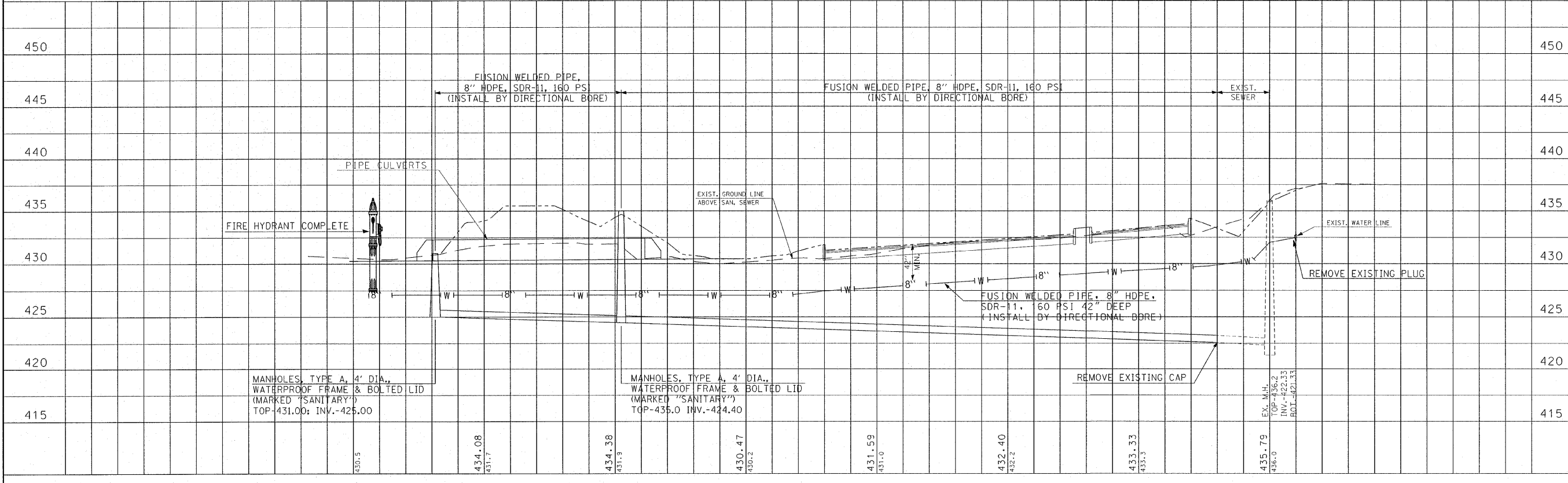
ISSUE DATE

SHEET NO.

C-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.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	51	8

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St. Louis, Missouri 63102
Fax: (314) 541-8025

LEWIS AND CLARK MEMORIAL TOWER

HARTFORD, ILLINOIS 62648

WATER LINE & SANITARY SEWER PLAN AND PROFILE

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO 10-02048

ISSUE DATE

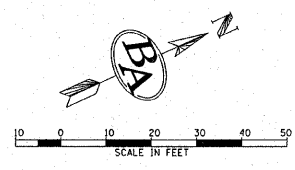
SHEET NO. **C-07**

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.



Joint Utility Locating Information for Excavators

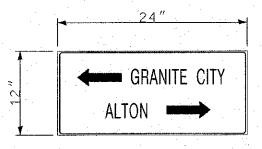
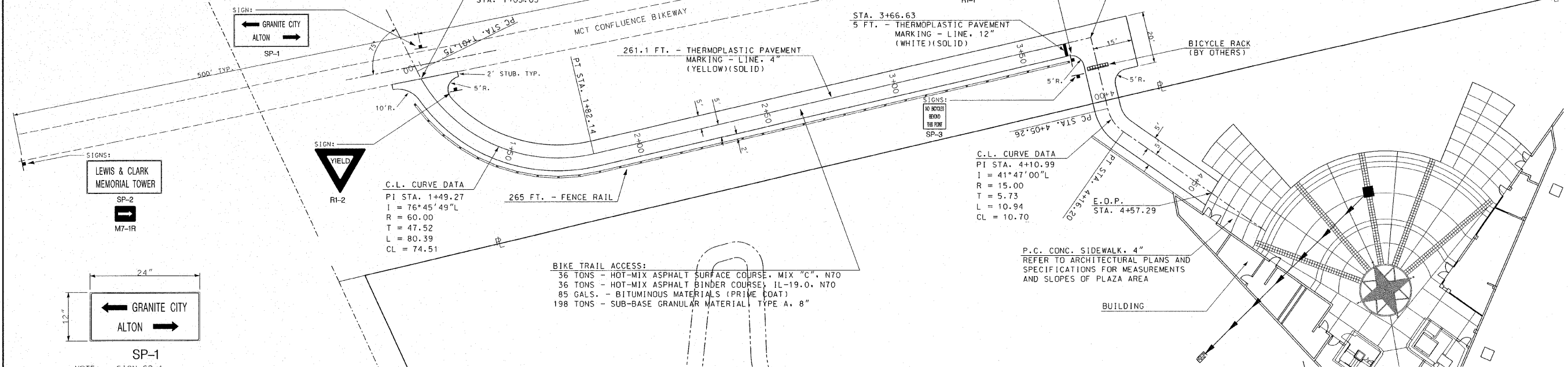
Call 48 hours before you dig!! (Excluding Sat., Sun. & Holidays)



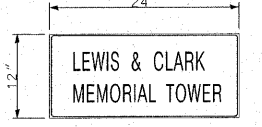
T.B.M. #1 - IRON PIN 365.1' NORTH OF CENTER OF CUL-DE-SAC AND 21.2' WEST OF CENTER LINE. ELEV. 437.18

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	51	9

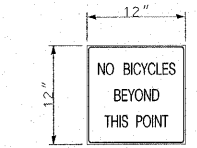
SIGN	TYPE	SIZE	LETTERS/BACKGROUND	QUAN.	S.F.	POST
M7-1L	DIRECTION	12" x 9"	WHITE ON GREEN	1	0.75	12'
M7-1R	DIRECTION	12" x 9"	WHITE ON GREEN	1	0.75	12'
R1-1	STOP	18" x 18"	WHITE ON RED	1	2.25	12'
R1-2	YIELD	18" x 18"	RED ON WHITE	1	2.25	12'
SP-1	INFORMATION	24" x 12"	WHITE ON GREEN	1	2.00	12'
SP-2	INFORMATION	24" x 12"	WHITE ON BROWN	2	4.00	24'
SP-3	INFORMATION	12" x 12"	BLACK ON WHITE	1	1.00	12'
SP-4	INFORMATION	24" x 12"	BLACK ON WHITE	1	2.00	12'
TOTAL				QUAN.	15.00	108'



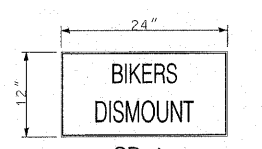
NOTE: SIGN SP-1 ALL LETTERS AND SYMBOLS TO BE 4" HIGH WHITE LETTERS ON GREEN BACKGROUND



NOTE: SIGN SP-2 ALL LETTERS AND SYMBOLS TO BE 4" HIGH WHITE LETTERS ON BROWN BACKGROUND

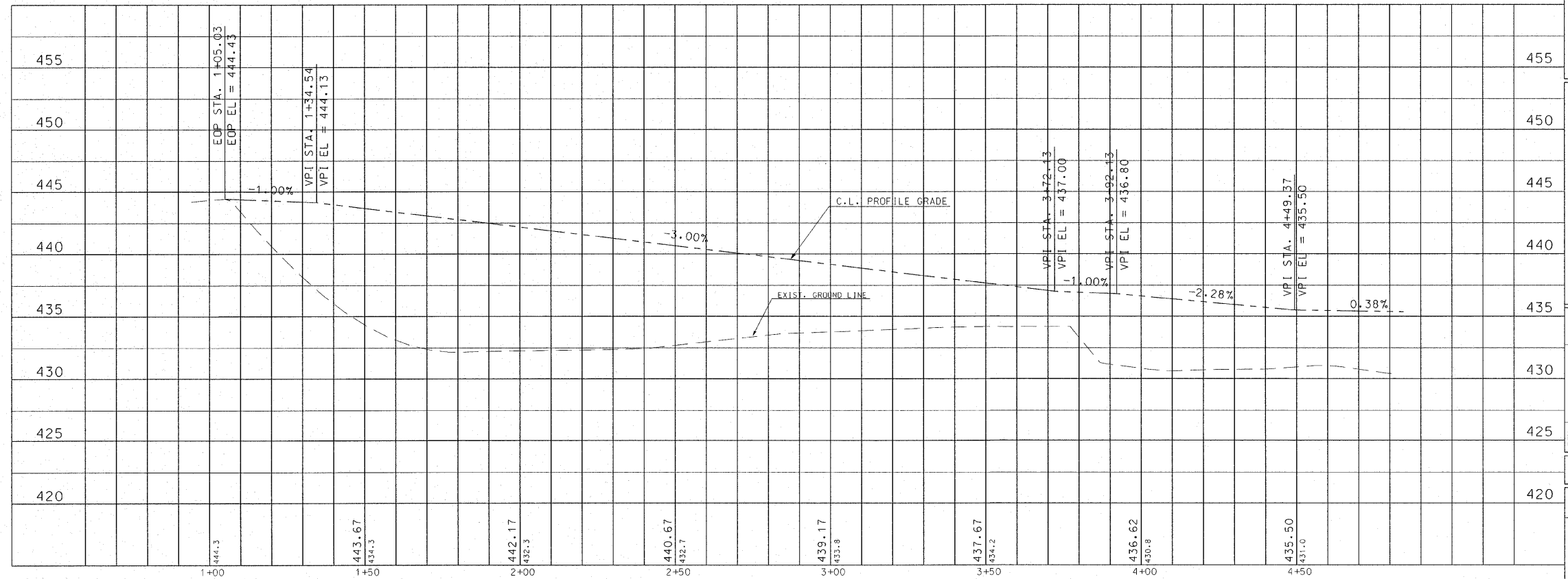


NOTE: SIGN SP-3 ALL LETTERS AND SYMBOLS TO BE 3" HIGH BLACK LETTERS ON WHITE BACKGROUND



NOTE: SIGN SP-4 ALL LETTERS AND SYMBOLS TO BE 4" HIGH BLACK LETTERS ON WHITE BACKGROUND

TRAFFIC CONTROL SIGNS, DETAILS NOT TO SCALE



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HARTFORD, ILLINOIS 62048

SHEET TITLE:
BIKE TRAIL ACCESS
PLAN AND PROFILE

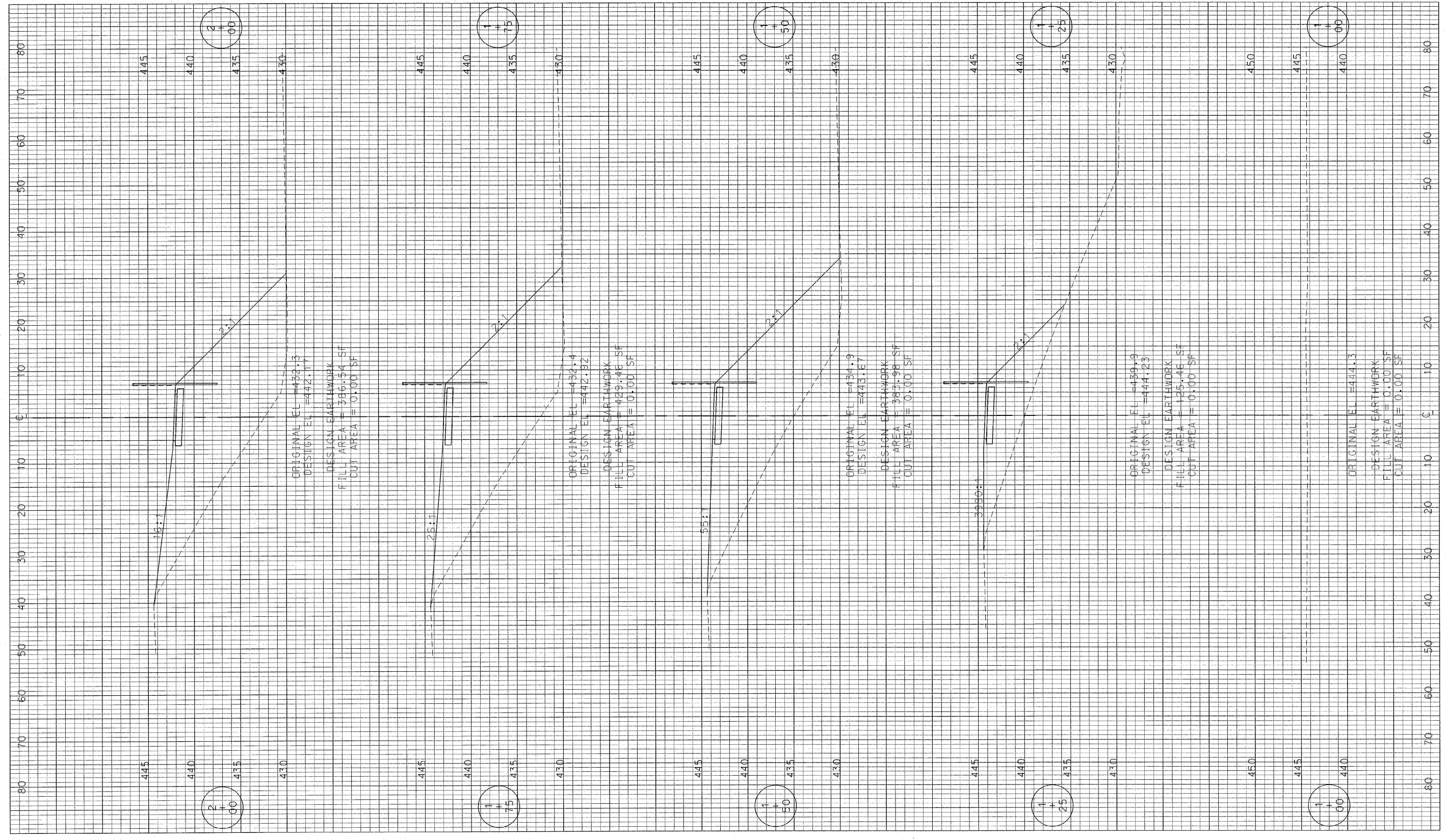
REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
10-02048

ISSUE DATE



SHEET NO.
C-08

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	51	10
		97331		



REV. NO.	REMARKS	DATE
KENNEDY PROJECT NO 10-02048		
ISSUE DATE		
SHEET NO.		
C-09		

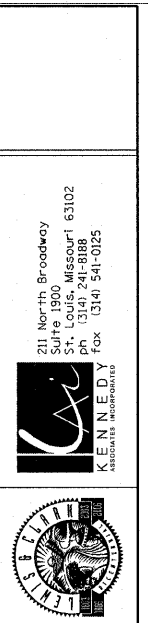
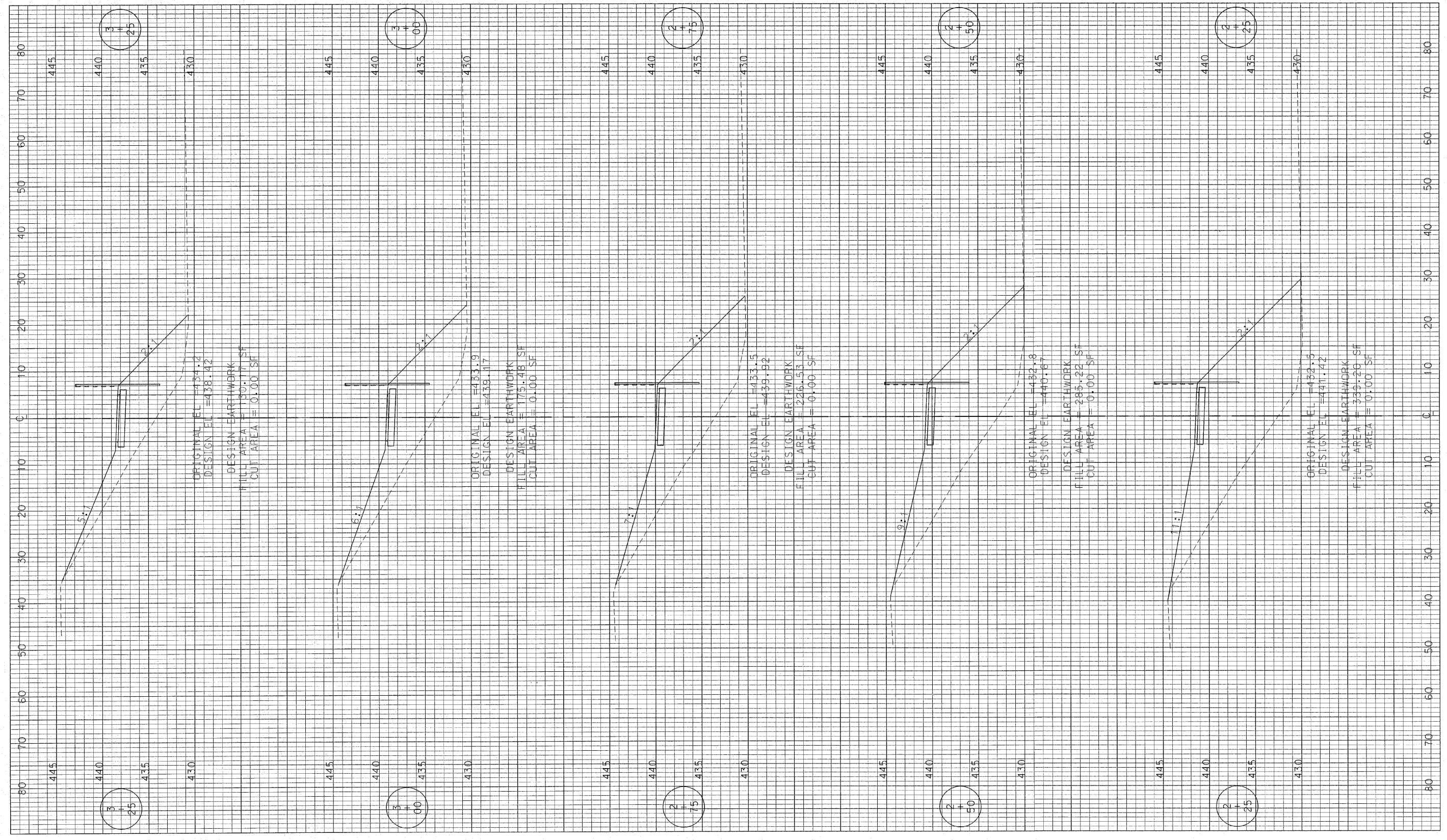
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
 140 WEST HAWTHORNE
 HARTFORD, ILLINOIS 62043

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 Fax (314) 541-0125
KENNEDY ASSOCIATES

1:250 02/08/14 12/20/07 41614 PW

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	51	11



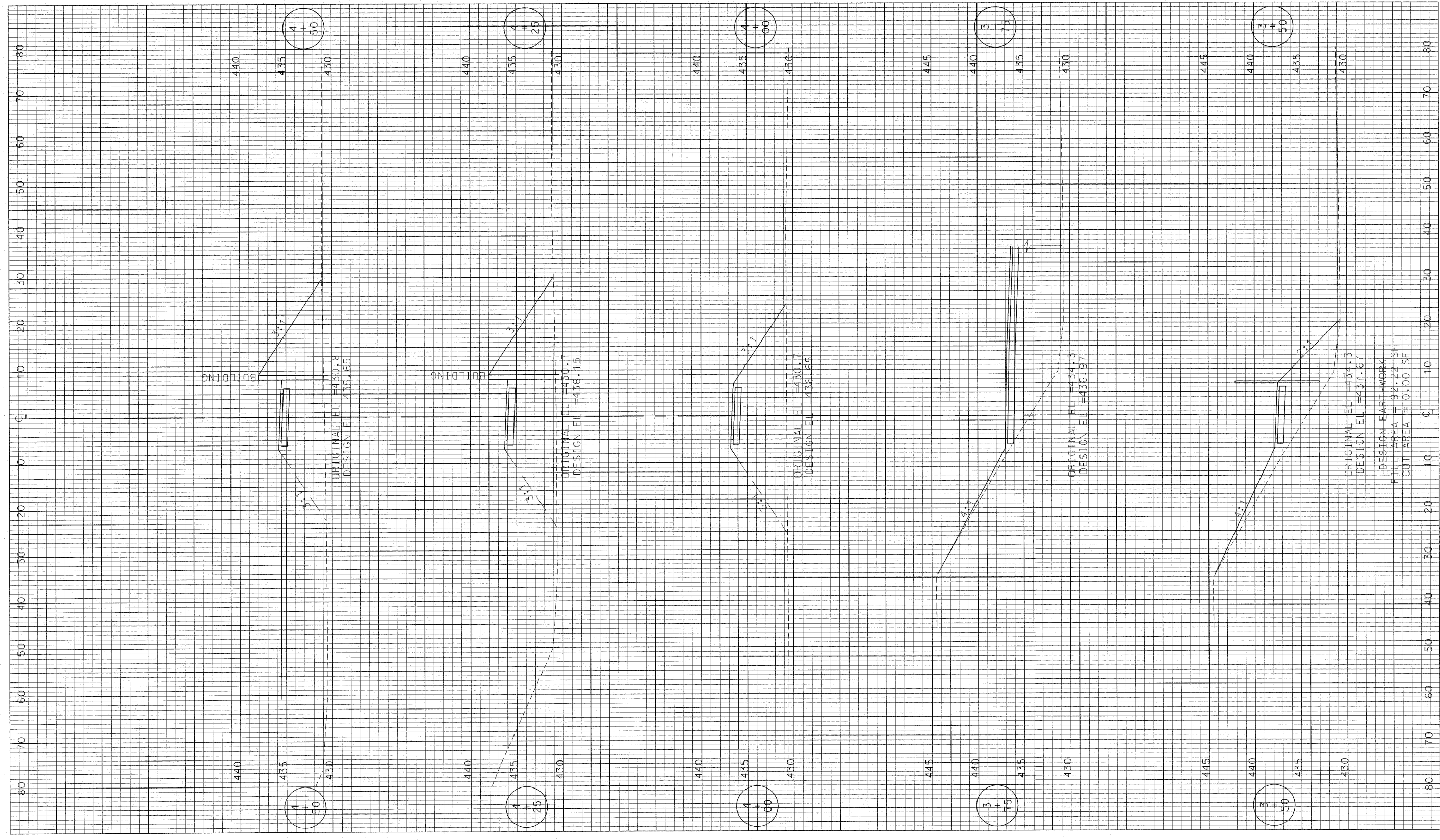
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
140 WEST HAWTHORNE
HARTFORD, ILLINOIS 62048

SHEET TITLE:		DATE
BIKE TRAIL ACCESS CROSS SECTIONS		
REV. NO.	REMARKS	
KENNEDY PROJECT NO 10-02048		
ISSUE DATE		
SHEET NO.		
C-10		

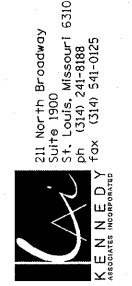
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St. Louis, Missouri 63102
PH 314 241-8188
FAX 314 241-0125



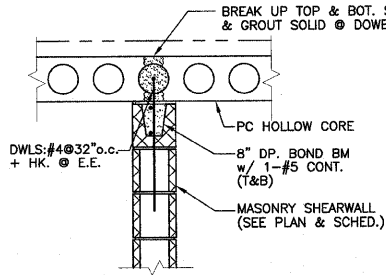
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		97331		



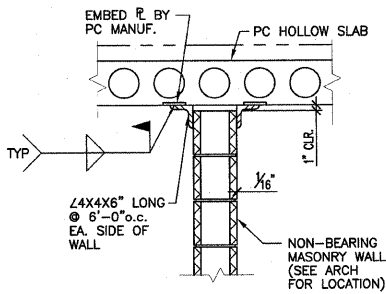
REV. NO.	REMARKS	DATE	SHEET TITLE
			BIKE TRAIL ACCESS CROSS SECTIONS
KENNEDY PROJECT NO 10-02048			LEWIS AND CLARK MEMORIAL TOWER VILLAGE OF HARTFORD, ILLINOIS 140 WEST HAWTHORNE HARTFORD, ILLINOIS 62048
ISSUE DATE			
SHEET NO.			C-11



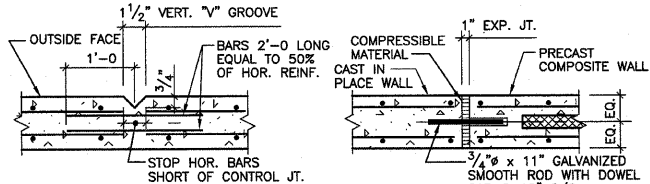
211 North Broadway
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 PH: 314.241.8888
 FAX: 314.241.0125



TYPICAL SLAB TO MASONRY SHEAR WALL CONNECTION
1.1C 3/4"=1'-0"



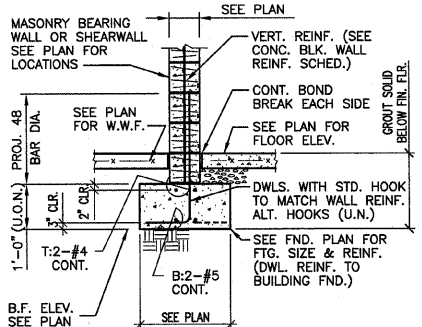
TYPICAL NON-BEARING CMU WALL BRACING
1.1D 3/4"=1'-0"



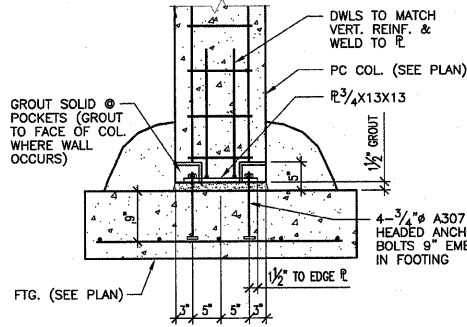
TYPICAL RETAINING WALL CONTROL JOINT
AT 20'-0" C/C MAXIMUM (OR AS NOTED)



TYPICAL RETAINING WALL EXPANSION JOINT
AT 100'-0" C/C MAXIMUM (OR AS NOTED)

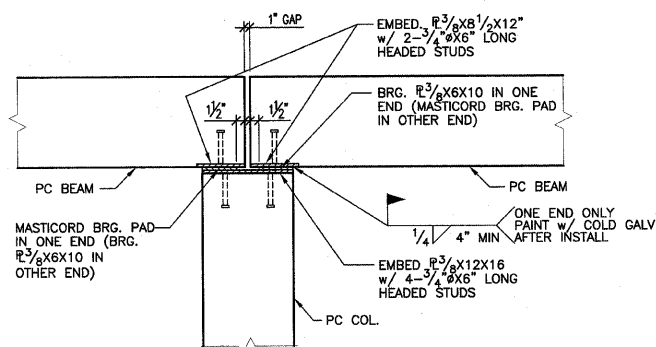


TYP. INTERIOR MASONRY SHEAR WALL FOUNDATION
1.1A



TYPICAL COL. TO FTG. CONN.

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

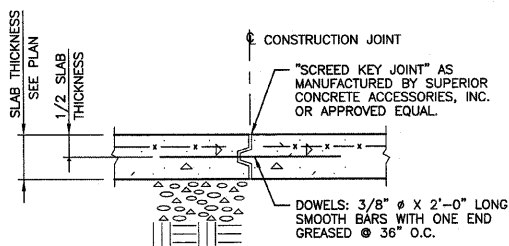


TYPICAL PC BEAM TO PC COLUMN CONN.
1.1B 3/4"=1'-0"

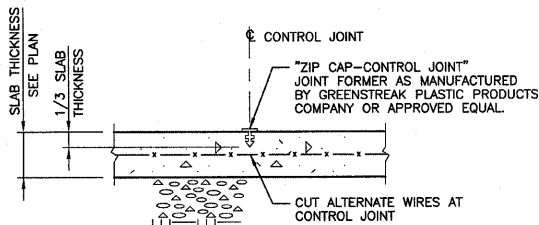
NOTE: EXTEND BM OVER TO EDGE OF COL. WHERE BM OCCURS ONE SIDE ONLY.

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"

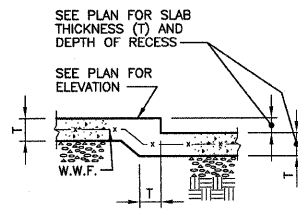
FOOTING DOWELS TO MATCH WALL REINFORCING (TYP. U.N.O.).



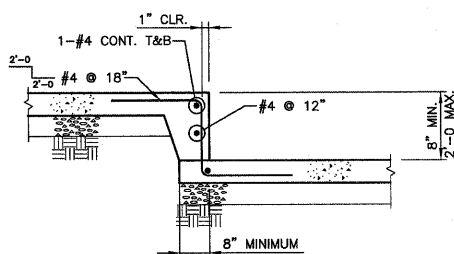
TYP. SLAB ON GRADE CONSTRUCTION JOINT
NOTE: CONSTRUCTION JOINTS TO BE LOCATED AT CONTROL JOINTS.



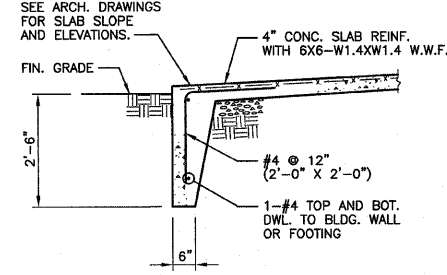
TYP. SLAB ON GRADE CONTROL JOINT
NOTE: CONTROL JOINTS AT 15'-0" O.C. MAXIMUM E.W., OR AS SHOWN ON PLAN



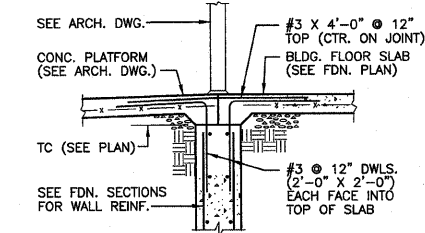
TYP. RECESS AT SLAB ON GRADE



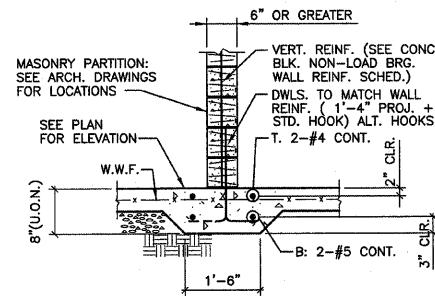
TYPICAL STEP IN SLAB ON GRADE
NOTES: 1. SEE PLAN FOR SLAB THICKNESS, SLAB REINFORCING, AND DEPTH OF STEP.
2. SEE DETAIL "A" WHERE TRENCH DRAIN OCCURS.



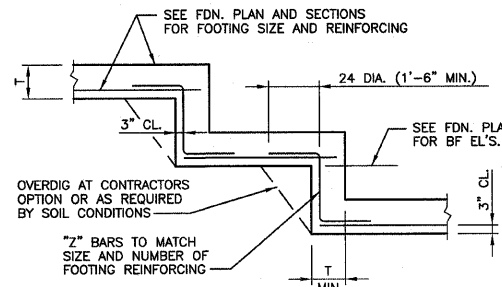
TYPICAL FROSTWALL



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

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 BEAMS 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 RAMSEY/REDHEAD 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
- 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

Sheet 13
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KAI
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

TYPICAL DETAILS & GENERAL NOTES

DATE	REVISIONS

KENNEDY PROJECT NO
KAI# 10-02048
ISSUE DATE
20-DEC-07
SHEET NO
S1.1

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
20-DEC-07

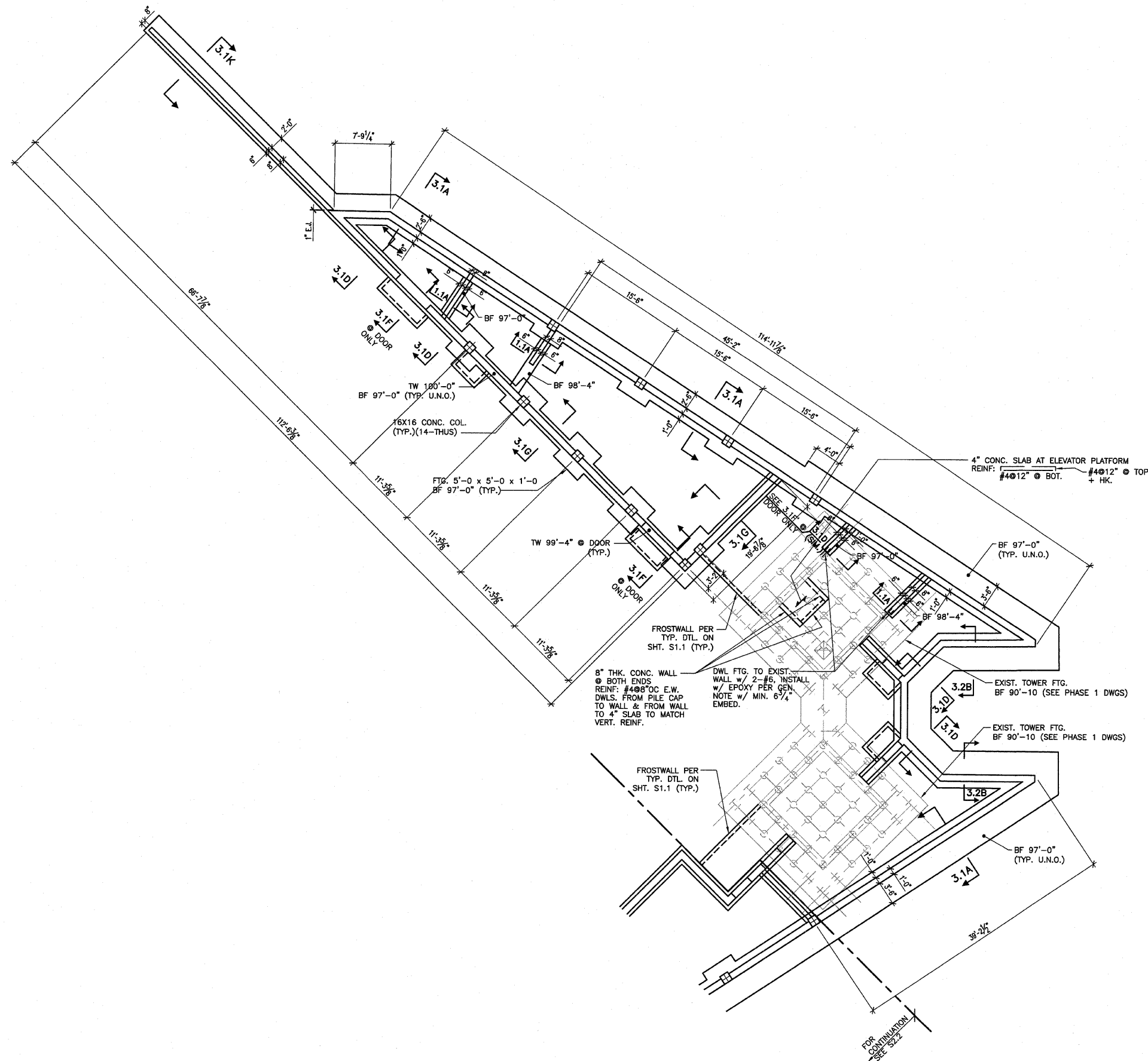
SHEET NO

S2.1

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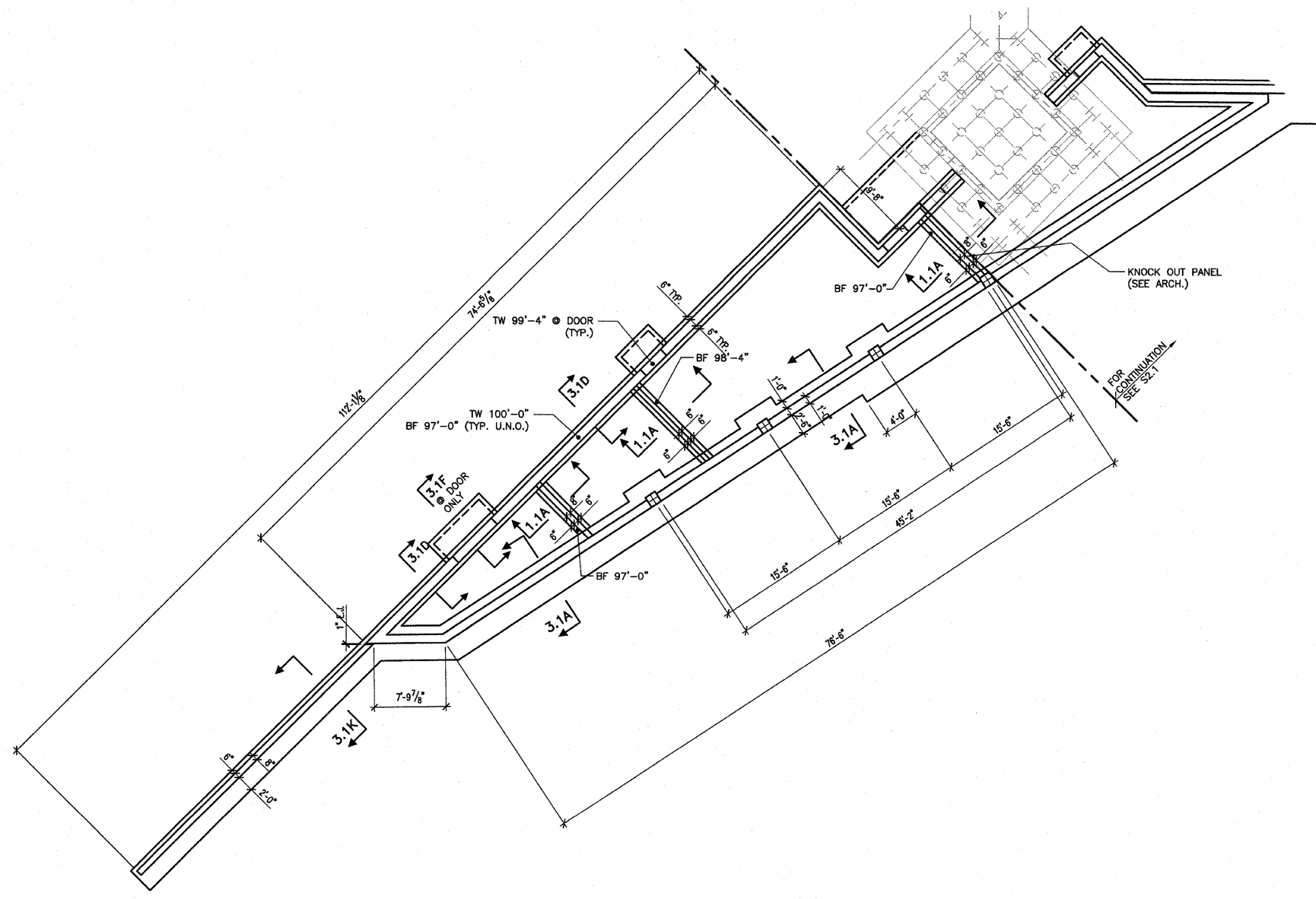
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SSE PROJECT NO: 02111



PARTIAL 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.



PARTIAL 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.

SHEET TITLE
**PARTIAL
FOUNDATION PLAN**

REV. NO.	DATE	REMARKS

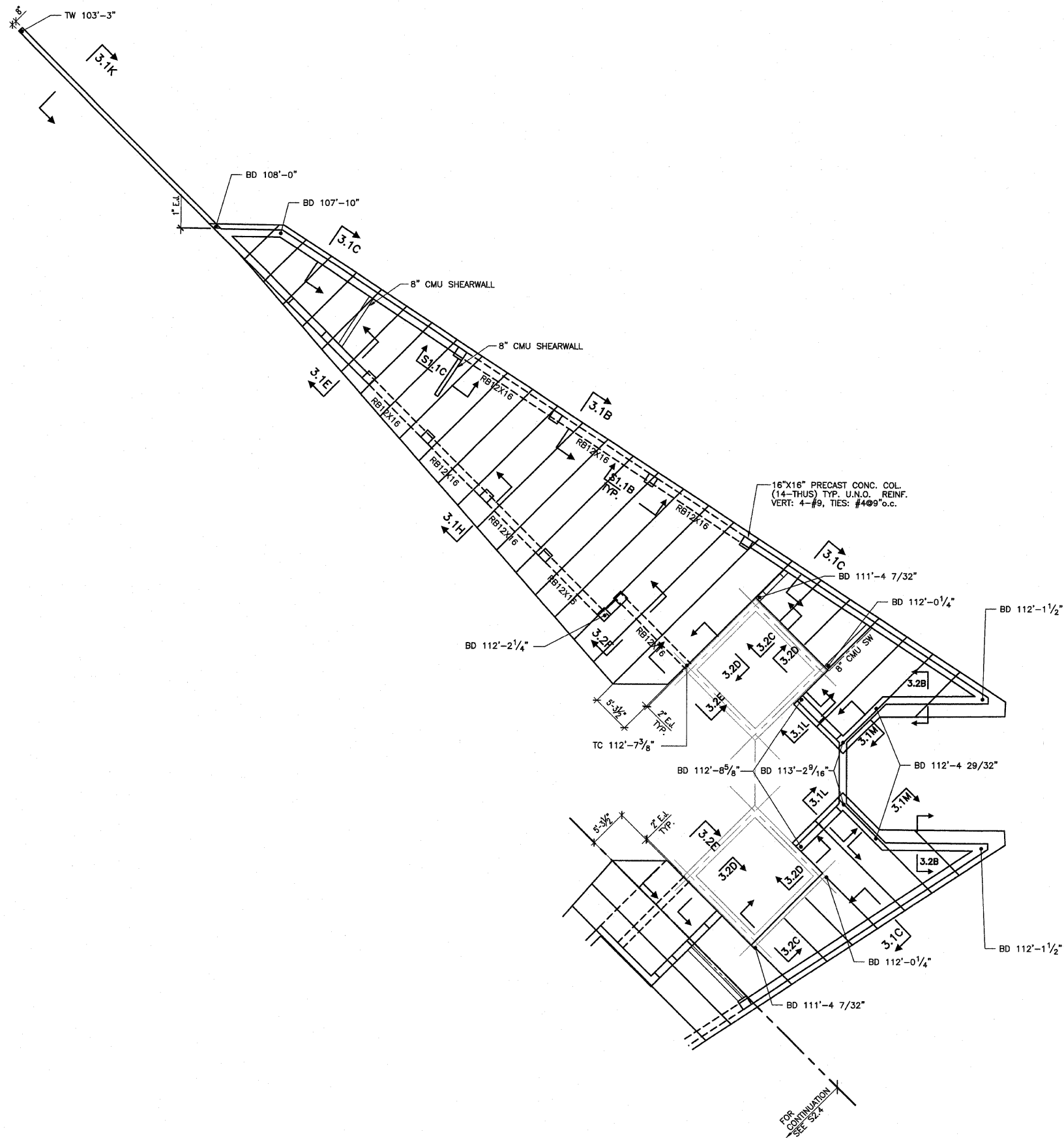
KENNEDY PROJECT NO
KAI 10-02048

ISSUE DATE
20-DEC-07

SHEET NO
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PARTIAL 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 4HC8-66-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 LBS/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.

Sheet 16
97331

211 N. Broadway
Suite 1900
St. Louis, MO 63102
(314) 241-8188
FAX (314) 241-0125



LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE
PARTIAL ROOF PLAN

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
KAI# 10-02048

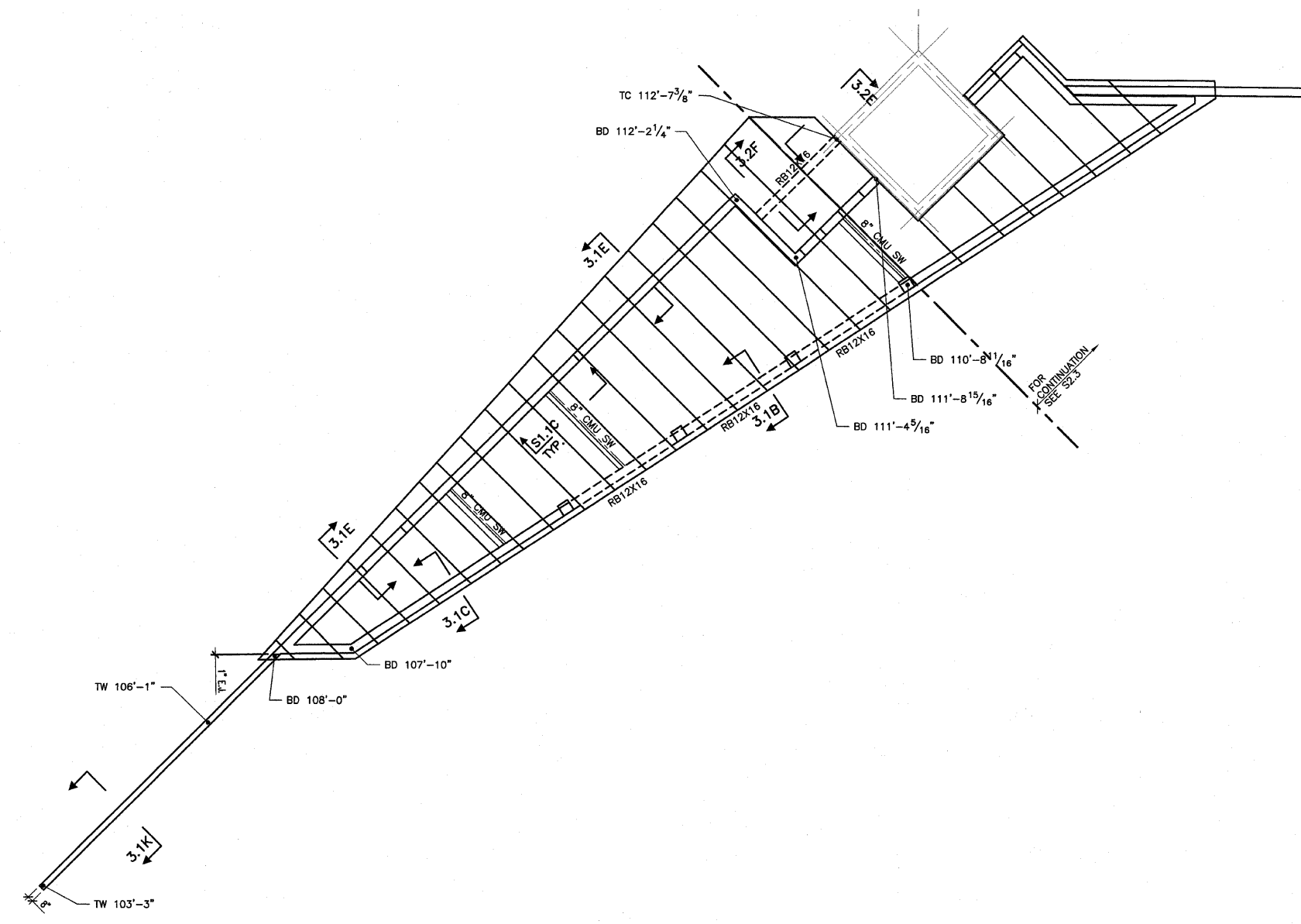
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20-DEC-07

SHEET NO
S2.3

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SSE PROJECT NO: 02111



PARTIAL 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 4HC8-66-S OR APPROVAL EQUAL), TOP OF SLAB VARIES DESIGN CRITERIA: DL = 20PSF LL = 30PSF
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SHEET TITLE
PARTIAL ROOF PLAN

REV. NO.	DATE	REMARKS

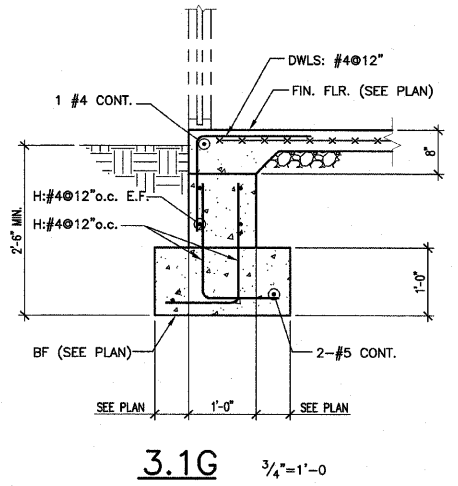
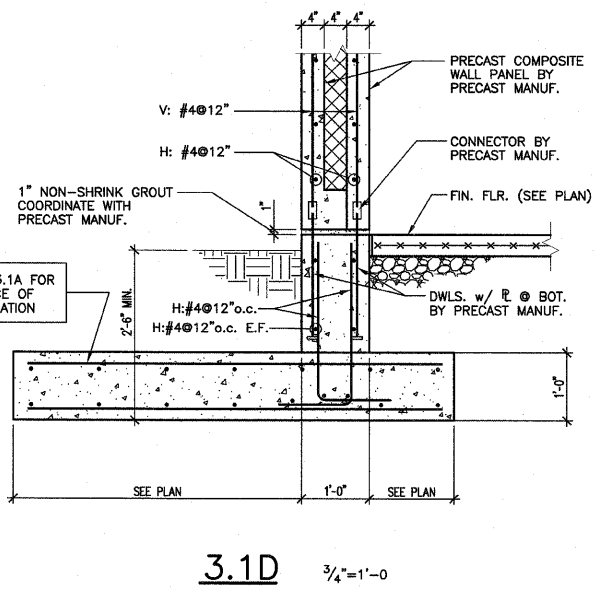
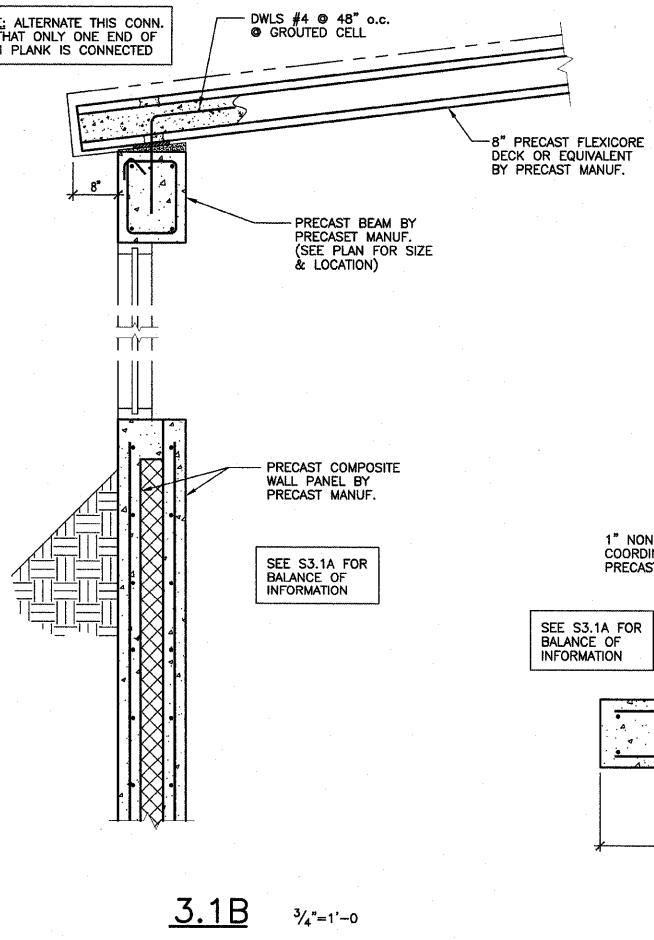
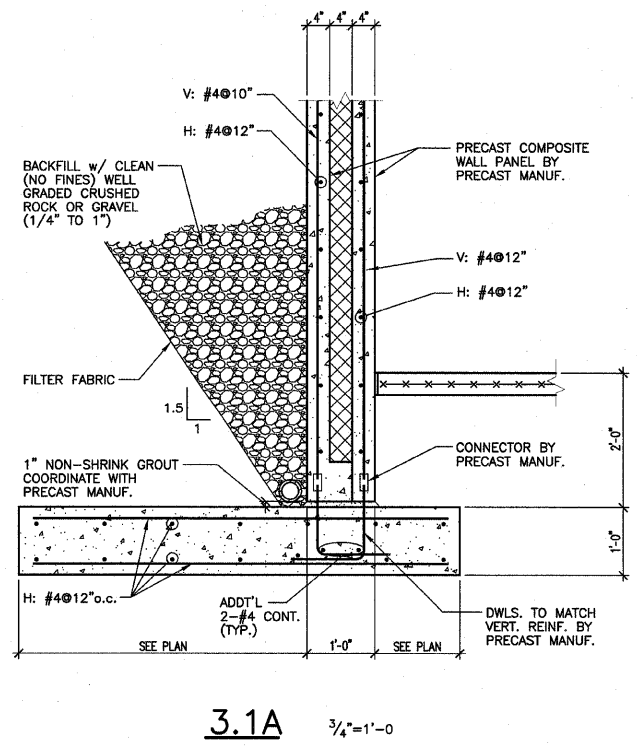
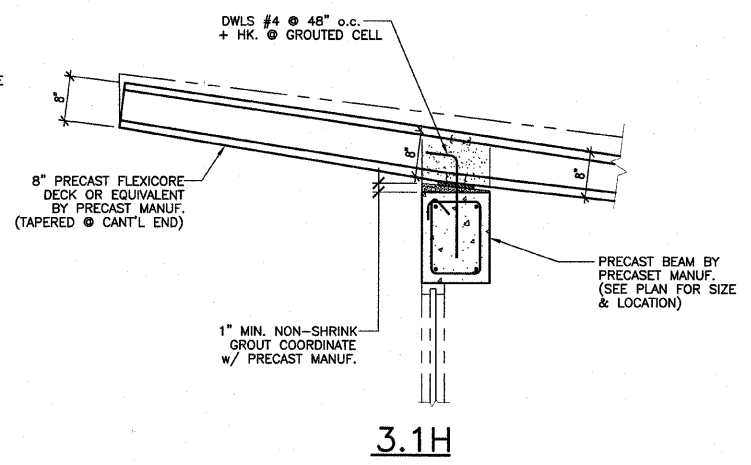
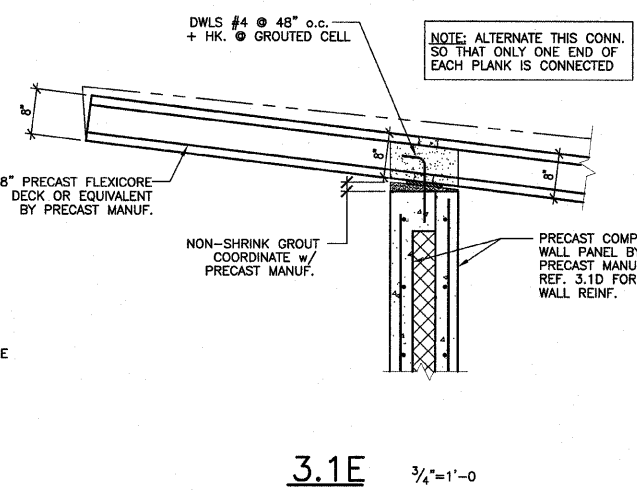
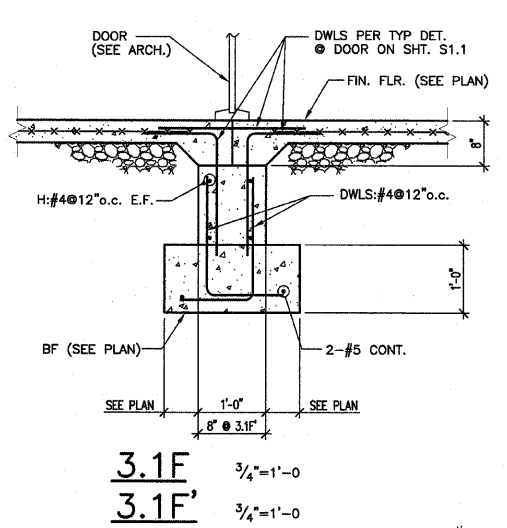
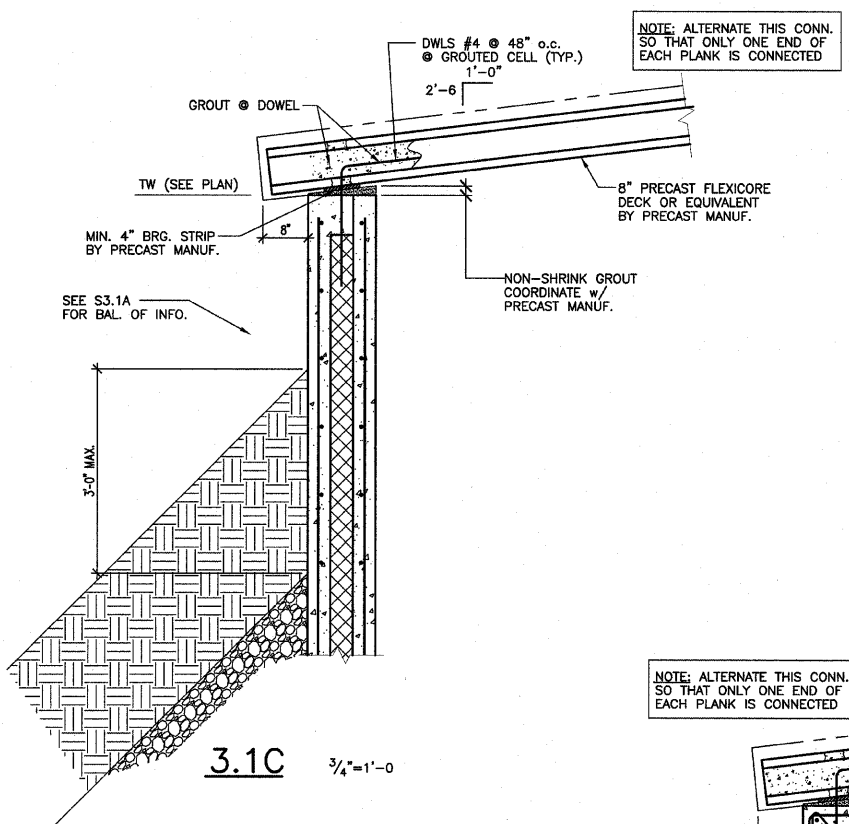
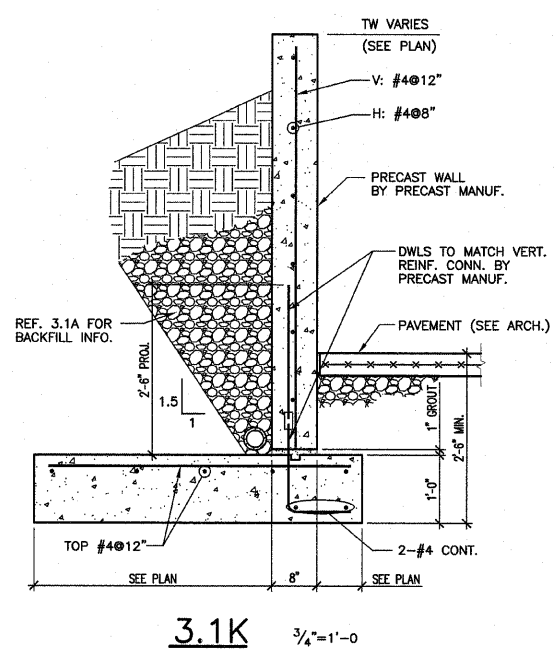
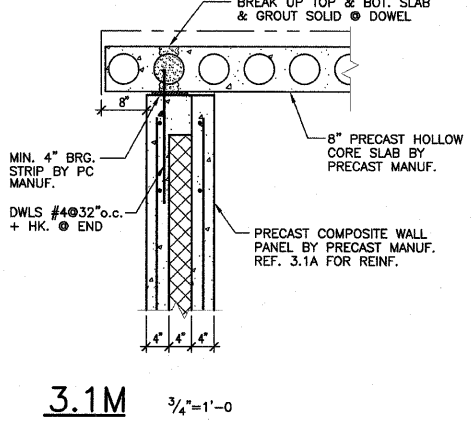
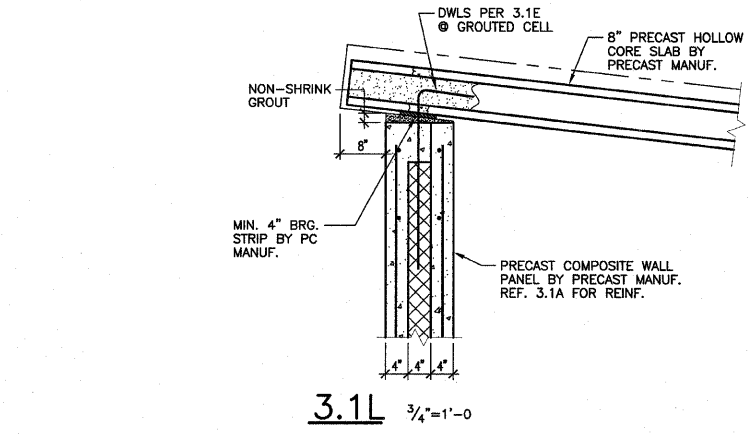
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KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
20-DEC-07

SHEET NO
S2.4

SHEET TITLE	SECTION & DETAILS
DATE	
REMARKS	
REV. NO.	
KENNEDY PROJECT NO	KAI 10-02048
ISSUE DATE	20-DEC-07
SHEET NO	S3.1



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SSE PROJECT NO: 02111

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
KAI 10-02048

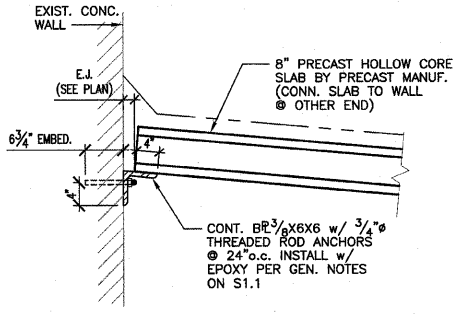
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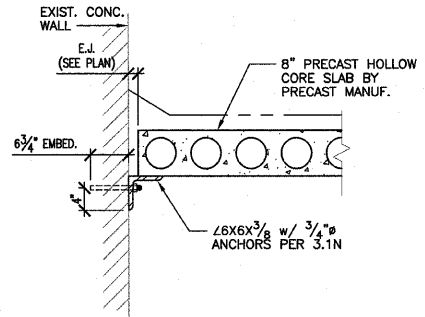
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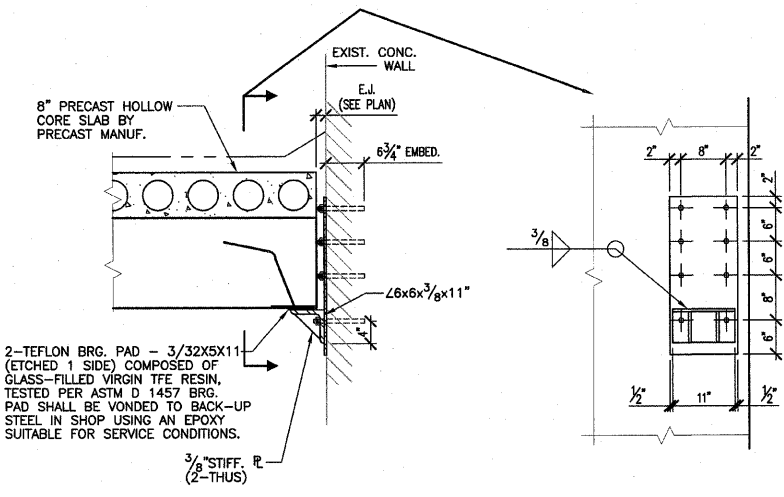
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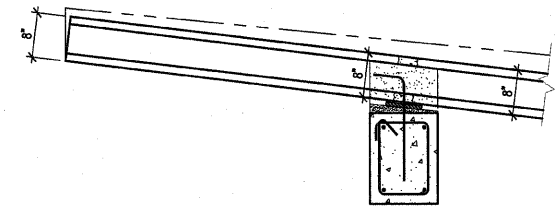
3.2C 3/4"=1'-0



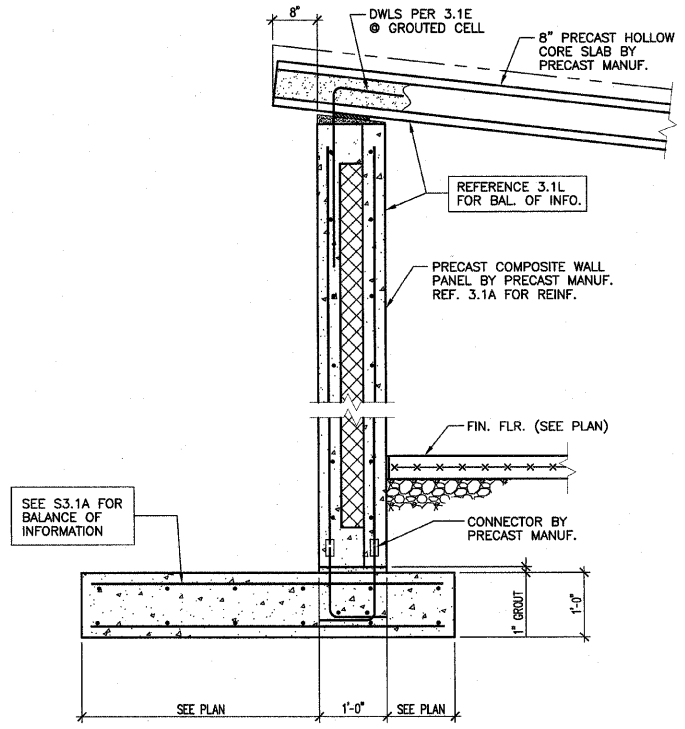
3.2D 3/4"=1'-0



3.2E 3/4"=1'-0

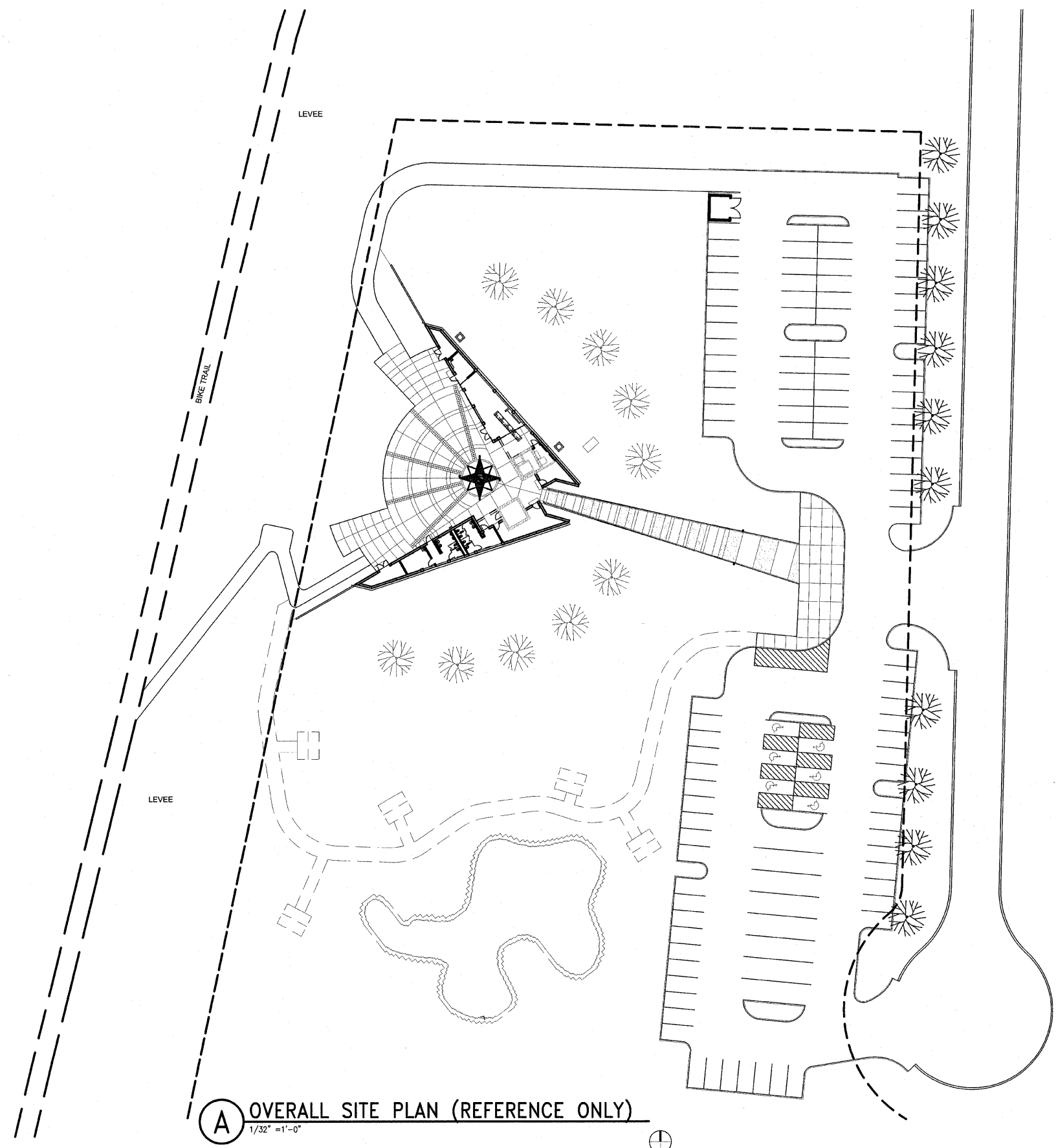


3.2F 3/4"=1'-0



3.2B 3/4"=1'-0

F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON 97331	51	20
FEDERAL AID PROJECT				



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



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HARTFORD, ILLINOIS 62049

SHEET TITLE:
**OVERALL SITE PLAN
FOR REFERENCE ONLY**

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

A1-02

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	21
	06-00026-01-MS	97331		

FEDERAL AID PROJECT

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KAI

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HARTFORD, ILLINOIS 62049

SHEET TITLE:
PHASE 2A SIT PLAN

REV. NO.	REMARKS	DATE

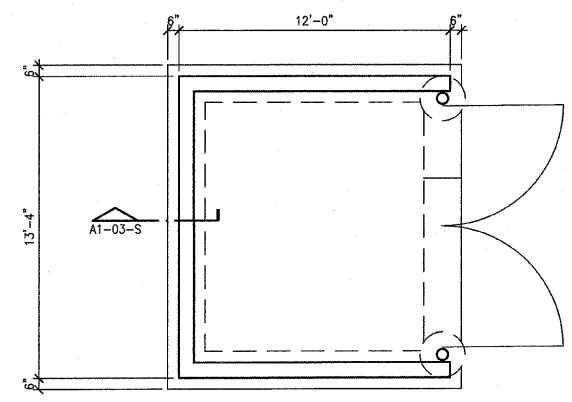
KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

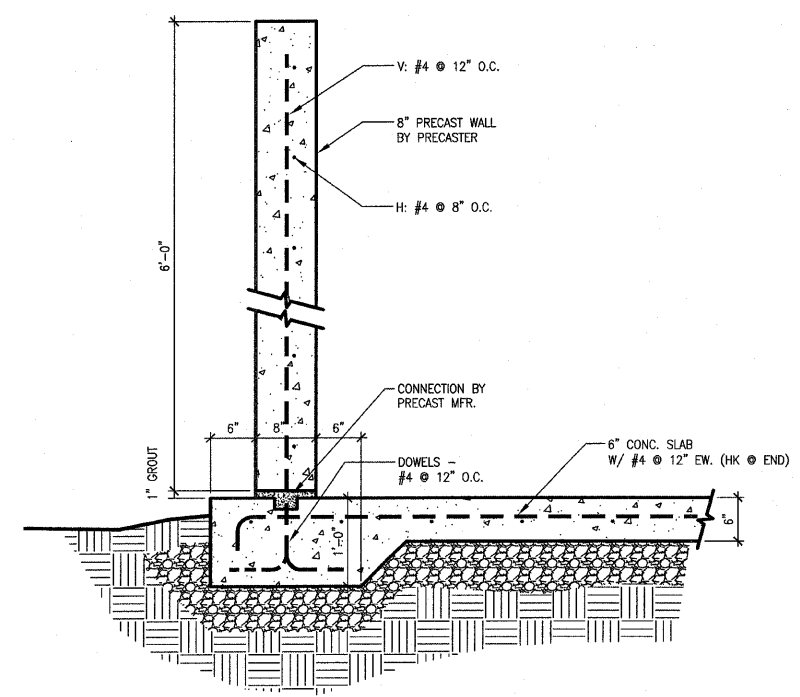
SHEET NO

A1-03

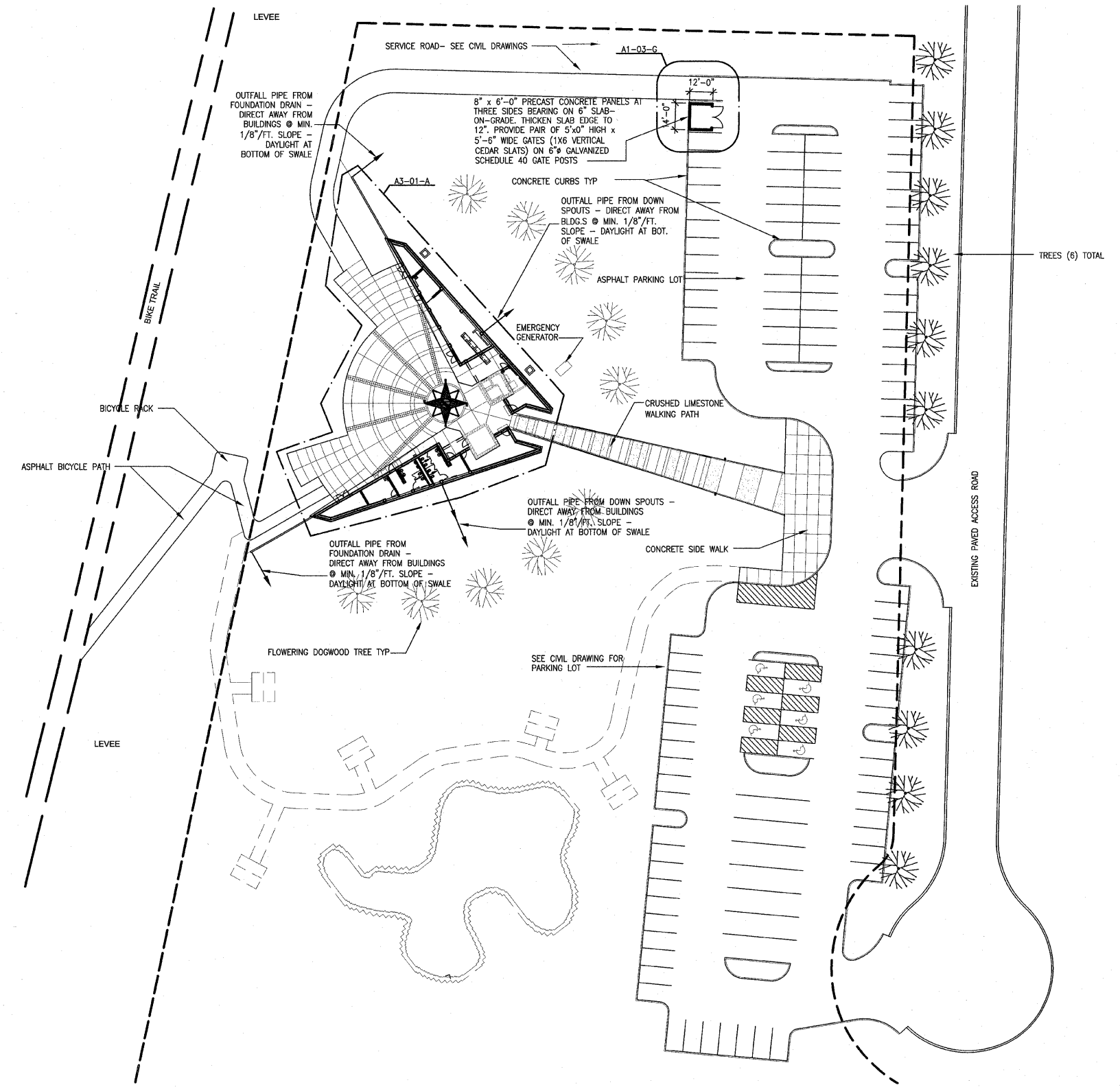
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G DUMPSTER ENCLOSURE
1/4"=1'-0"



S DUMPSTER ENCLOSURE
1"=1'-0"



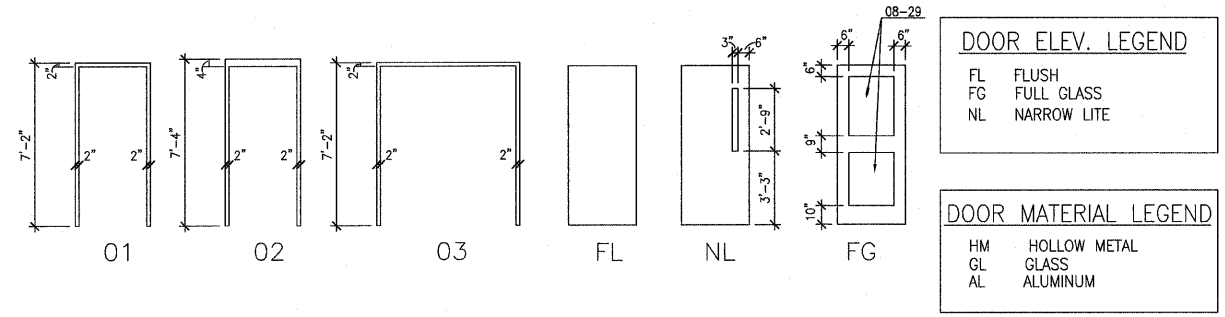
A PHASE 2 SITE PLAN
1/32"=1'-0"



SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
03-00026-00-PK 06-00026-01-MS	MADISON	51	22

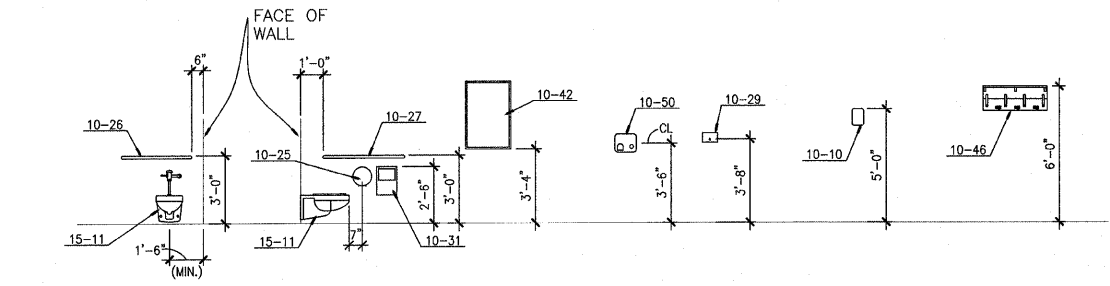
FEDERAL AID PROJECT
GENERAL NOTES:
 1. ALL DOOR DIMENSIONS ARE 3'-0" x 7'-0" UNLESS NOTED OTHERWISE.
 2. SEE FINISH SCHEDULE FOR DOOR AND FRAME FINISHES.

DOOR TYPE SCHEDULE					
DOOR TYPE	DOOR ELEV.	DOOR MATERIAL	FRAME ELEV.	DOOR RATING	REMARKS
A	FL	HM	01		
B	NL	HM/GL	01		PROVIDE PATTERNED GLASS IN LITE
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"

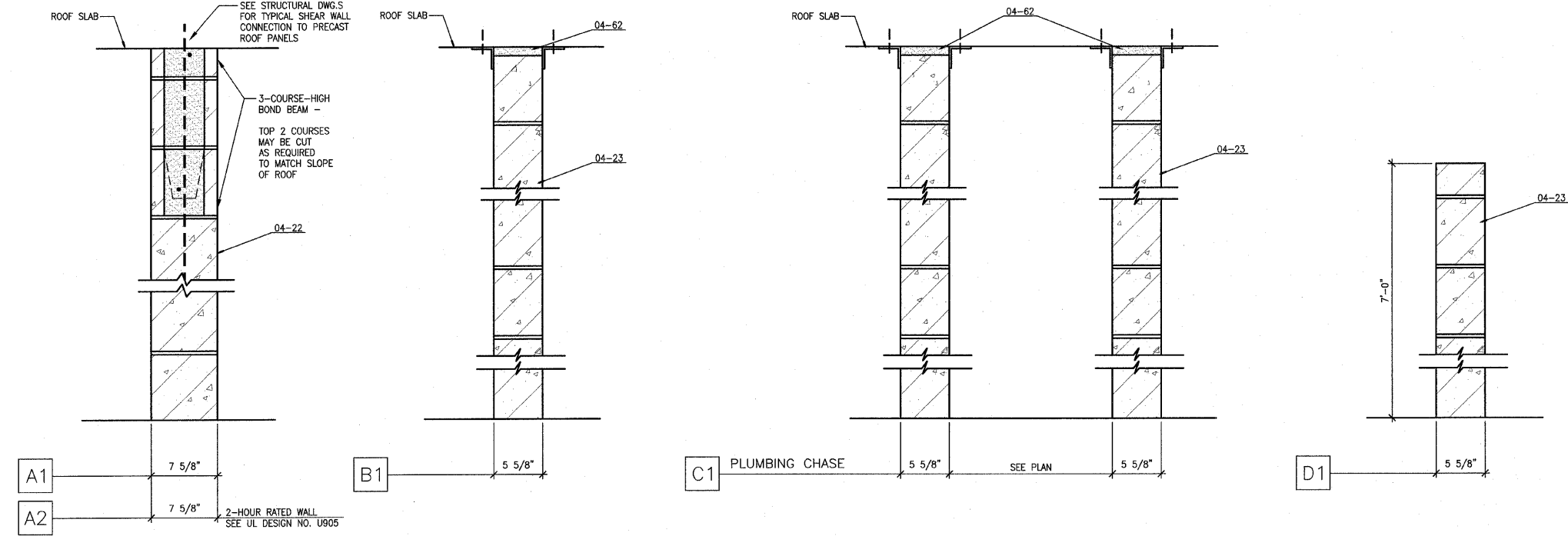


TYP. MOUNTING HEIGHTS
 1/4"=1'-0"

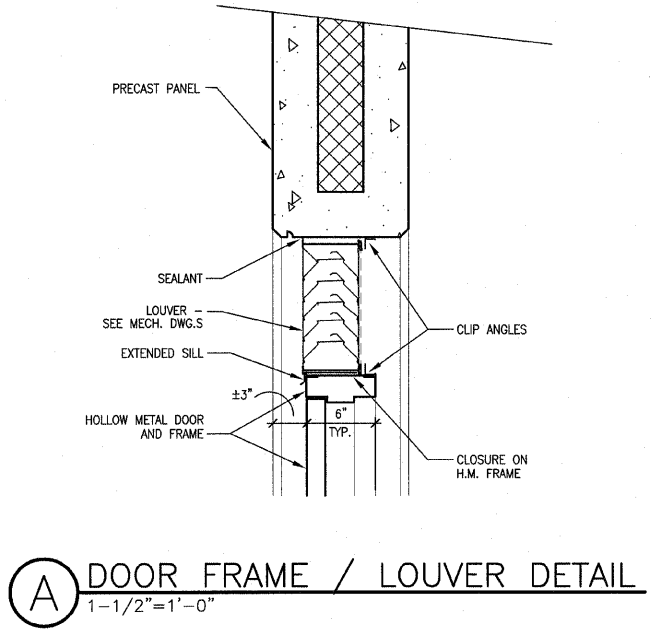
FINISH SCHEDULE						
ROOM NO.	ROOM NAME	FLOOR	WALLS	CEILING FINISH	CEILING HEIGHT	REMARKS
101	MECHANICAL	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC
102	VENDING	STC	HPC	AP/HPC	VARIES	
103	GIFT SHOP	STC	HPC	AP/HPC	VARIES	
104	CONTROL DESK	STC	HPC	AP/HPC	VARIES	
105	LOBBY	*	---	HPC	VARIES	*COLORED 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
109						NOT USED
110	WOMEN	SC	HPC	HPC	VARIES	PAINT DOORS & FRAMES WITH HPC
111	MEN	SC	HPC	HPC	VARIES	PAINT DOORS & FRAMES WITH HPC
112	ELECTRICAL / JANITOR	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC
113	STORAGE	SC	---	---	VARIES	PAINT DOORS & FRAMES WITH HPC

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

KEYED NOTES:
 04-22 8" CONCRETE MASONRY UNIT
 04-23 6" CONCRETE MASONRY UNIT
 04-62 COMPRESSIBLE FILLER
 10-10 TACTILE SIGN PLATE
 10-25 ACCESSIBLE TOILET TISSUE DISPENSER
 10-26 36" GRAB BAR
 10-27 42" GRAB BAR
 10-29 ACCESSIBLE SOAP DISPENSER
 10-31 ACCESSIBLE SANITARY NAPKIN DISPOSAL
 10-42 MIRROR
 10-46 UTILITY SHELF WITH HOOKS
 10-50 ELECTRIC HAND DRYER
 15-11 ACCESSIBLE WATER CLOSET



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



DOOR FRAME / LOUVER DETAIL
 1-1/2"=1'-0"

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KAI
LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
 HARTFORD, ILLINOIS 62049
 SHEET TITLE: MOUNTING HEIGHTS / PARTITION TYPES DOOR INFORMATION
 DATE: _____
 REMARKS: _____
 REV. NO.: _____
 KENNEDY PROJECT NO. KAI# 10-02048
 ISSUE DATE 12-JULY-05
 SHEET NO. **A2-01**
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	51	23

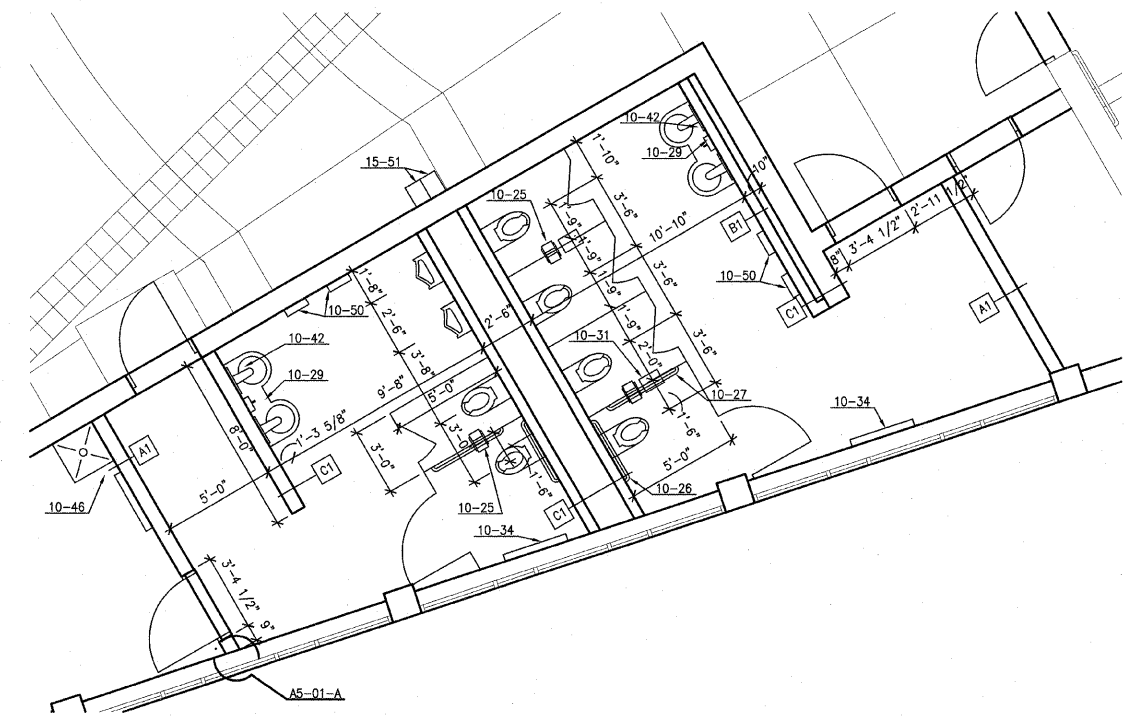
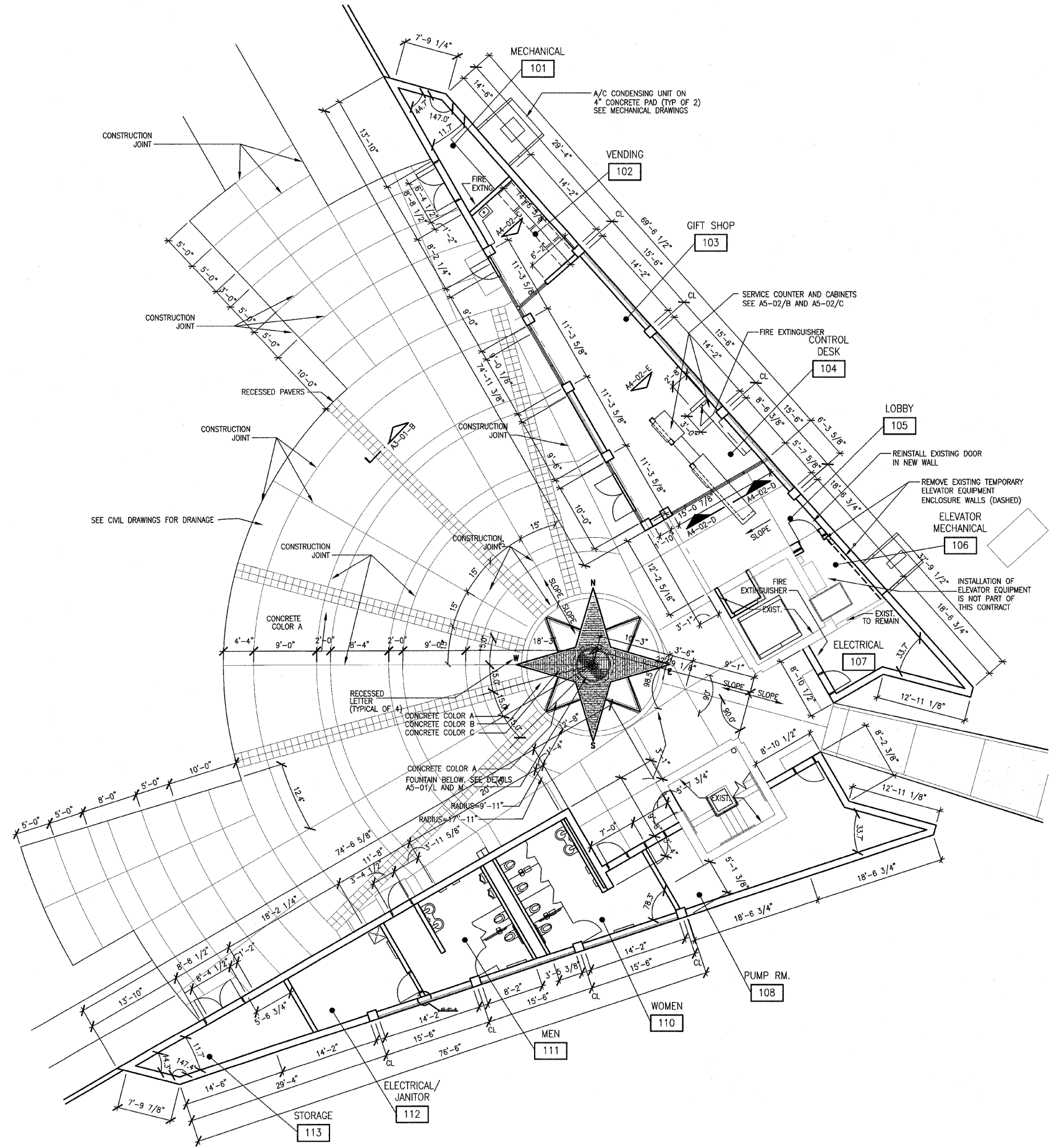
FEDERAL AID PROJECT

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.

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

KEYED NOTES:

- 04-63 8"x8" WALL VENTS @ 8" ABOVE FLOOR & 8" (MIN.) BELOW ROOF PANELS.
- 10-25 ACCESSIBLE TOILET TISSUE DISPENSER
- 10-26 36" GRAB BAR
- 10-27 42" GRAB BAR
- 10-29 ACCESSIBLE SOAP DISPENSER
- 10-31 ACCESSIBLE SANITARY NAPKIN DISPOSAL
- 10-34 DIAPER CHANGING TABLE
- 10-42 MIRROR
- 10-46 UTILITY SHELF WITH HOOKS
- 10-50 ELECTRIC HAND DRYER
- 15-51 DRINKING FOUNTAIN



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HARTFORD, ILLINOIS 62049

SHEET TITLE:
FLOOR PLAN AND ENLARGED RESTROOM PLAN

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

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

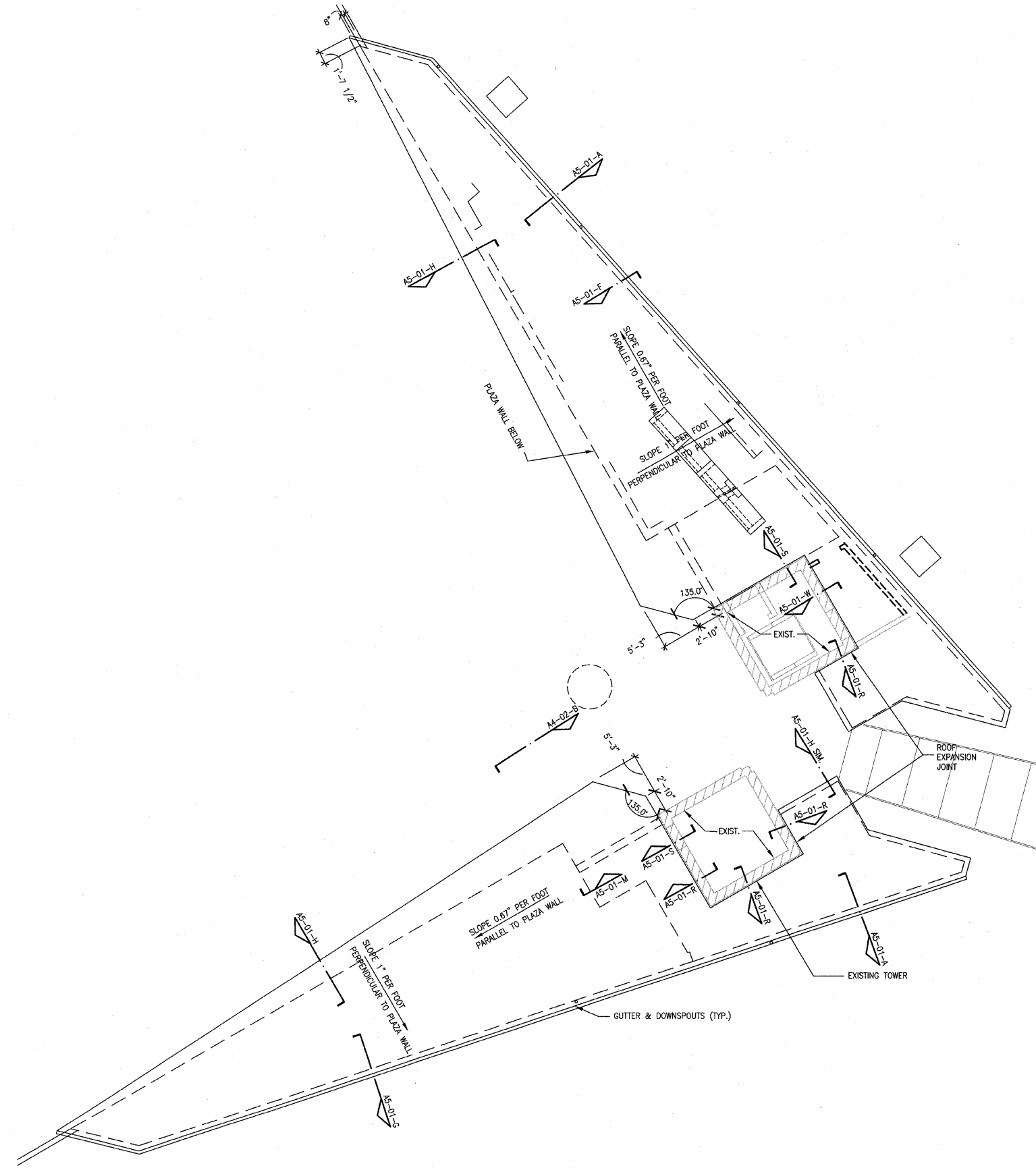
A3-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	24
	06-00026-01-MS	97331		

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.

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



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

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HARTFORD, ILLINOIS 62049

SHEET TITLE
ROOF PLAN

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

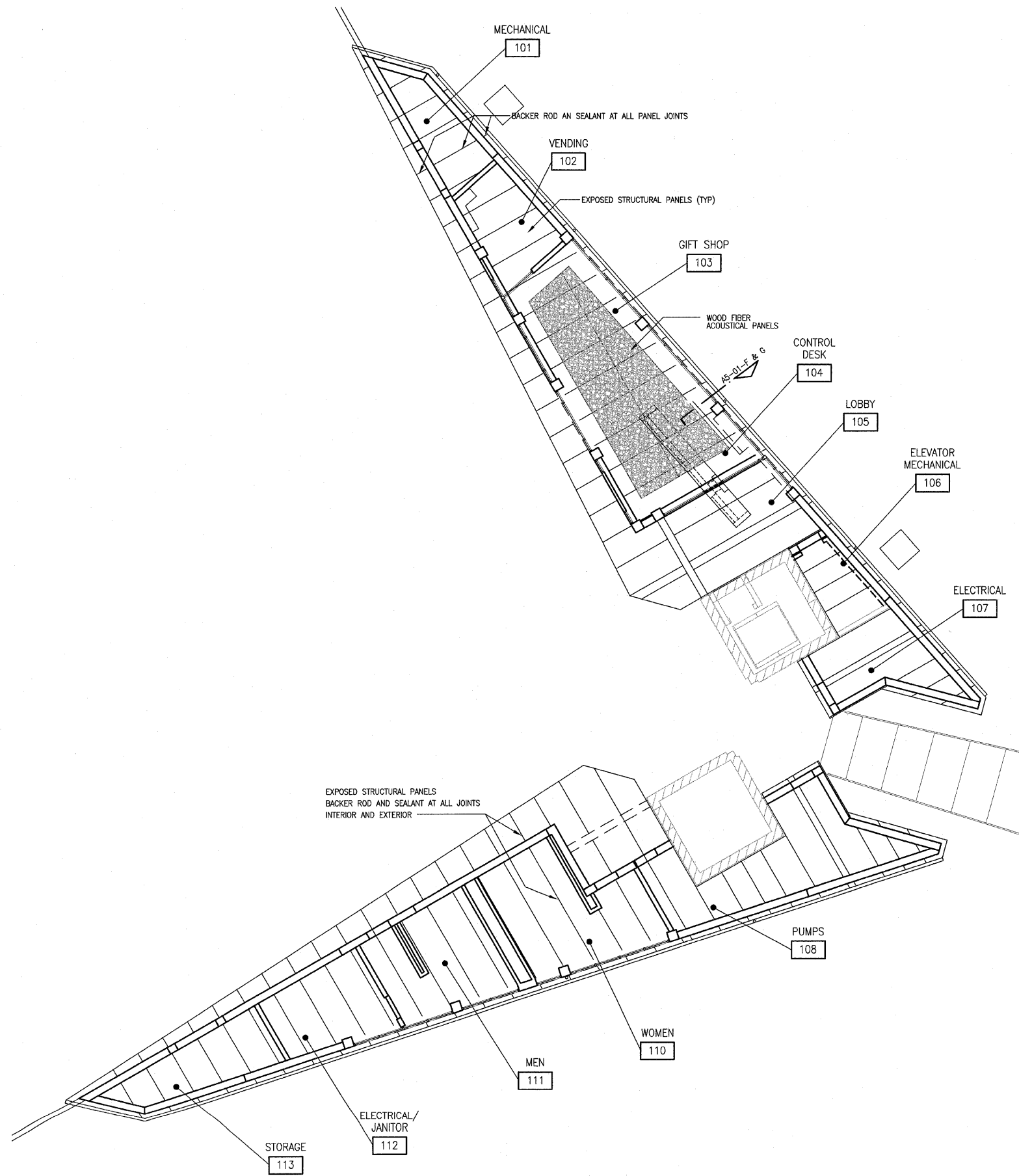
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ISSUE DATE
12-JULY-05

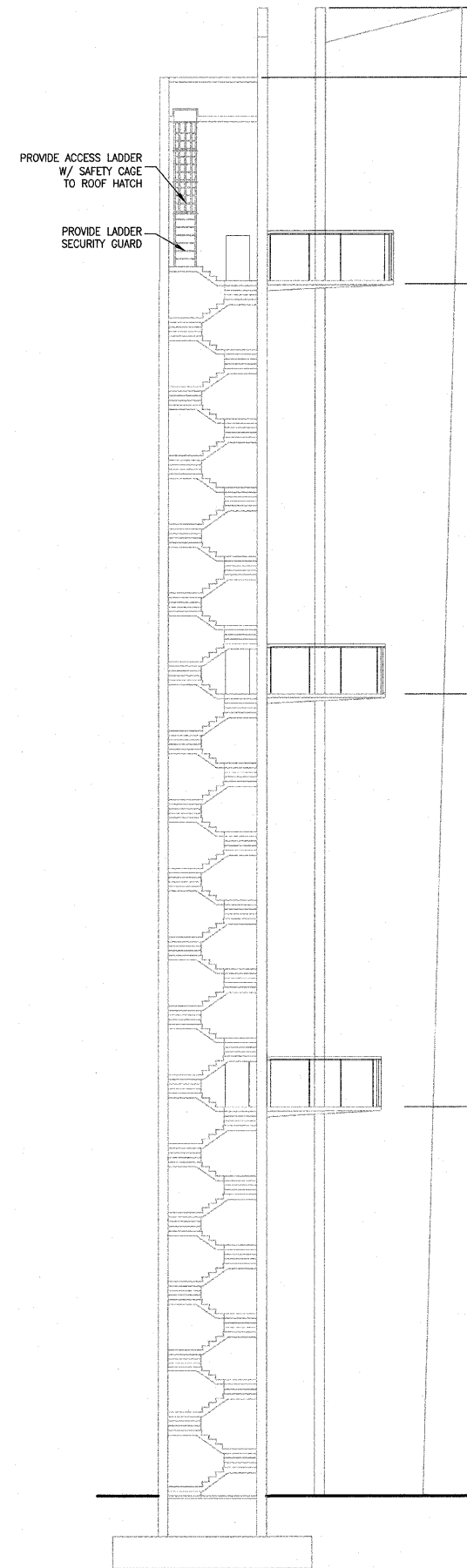
SHEET NO
A3-02

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	25
	06-00026-01-MS	97331		

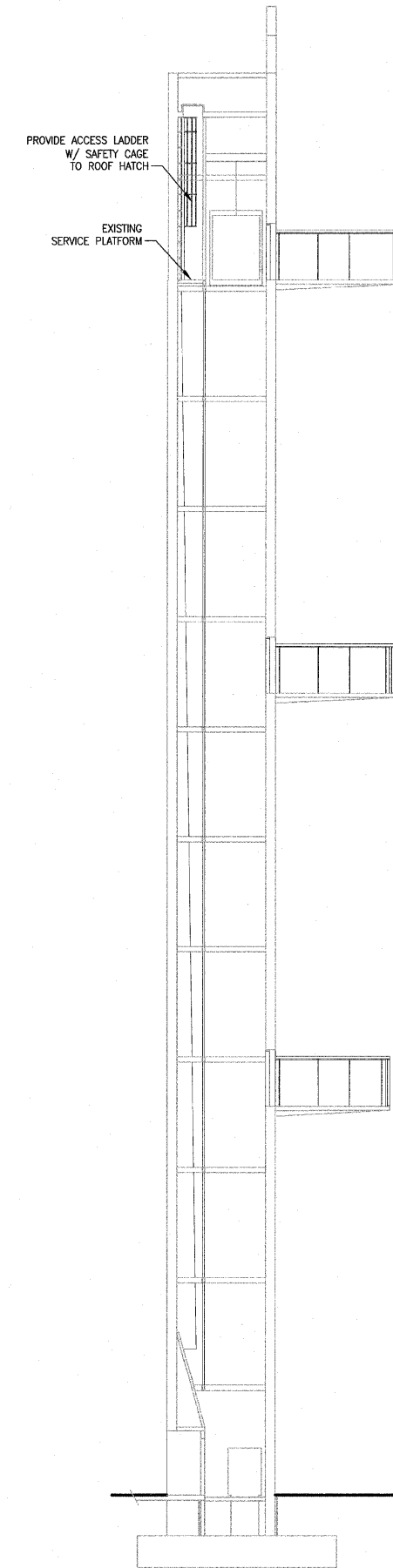
FEDERAL AID PROJECT



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



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



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

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VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
REFLECTED CEILING PLAN

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

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

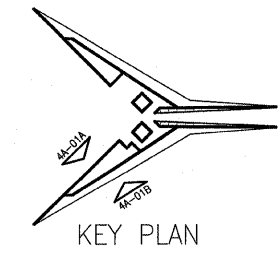
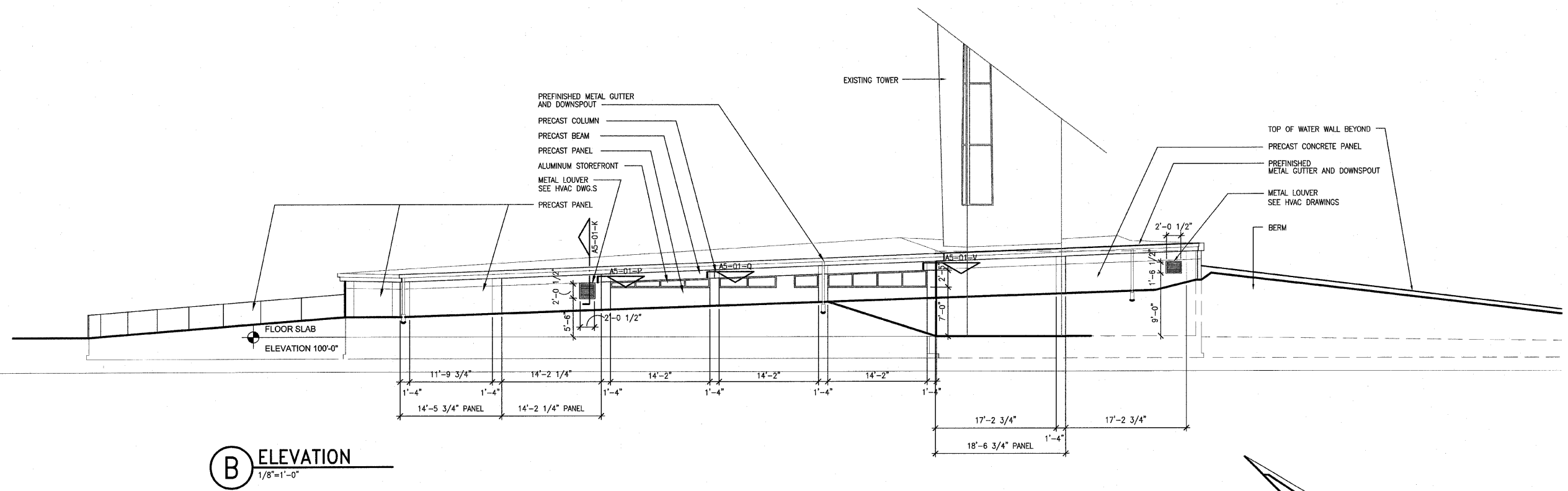
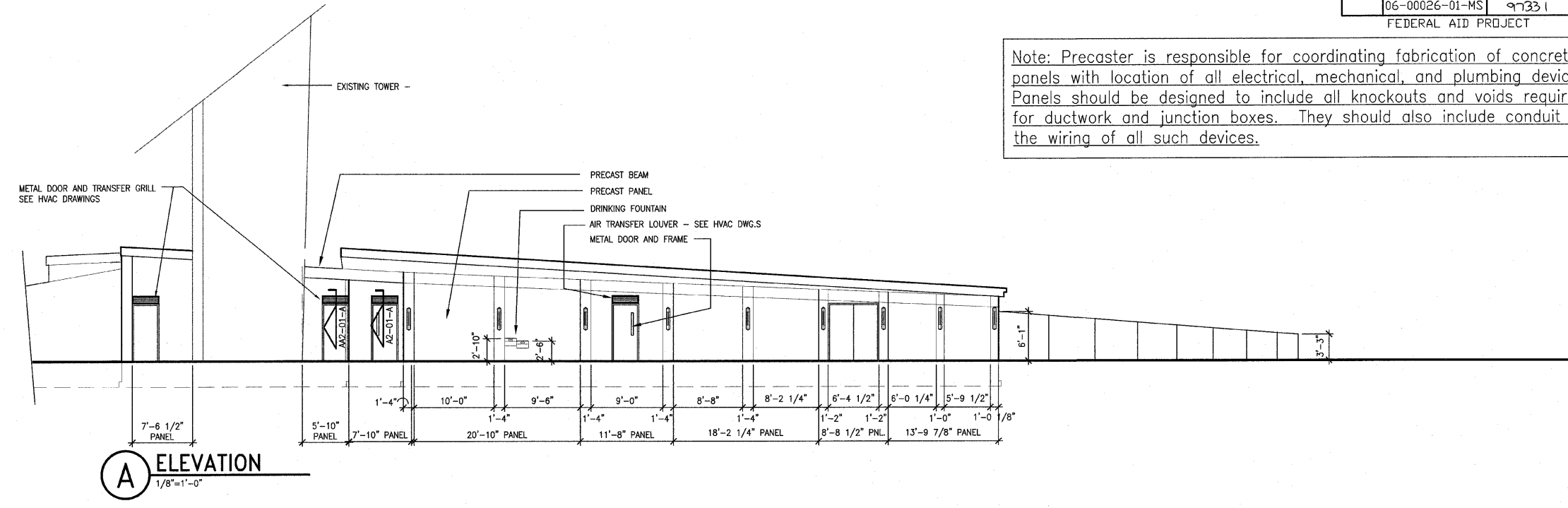
SHEET NO

A3-03

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON 97331	51	26

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.



F:\2002\10-02048\6000SC\PHASE-2\25\A4-01.DWG | 12/27/2005 8:40:36 AM | Xref to: BS-ELEV T8243620L | Images: none

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
EXTERIOR ELEVATIONS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

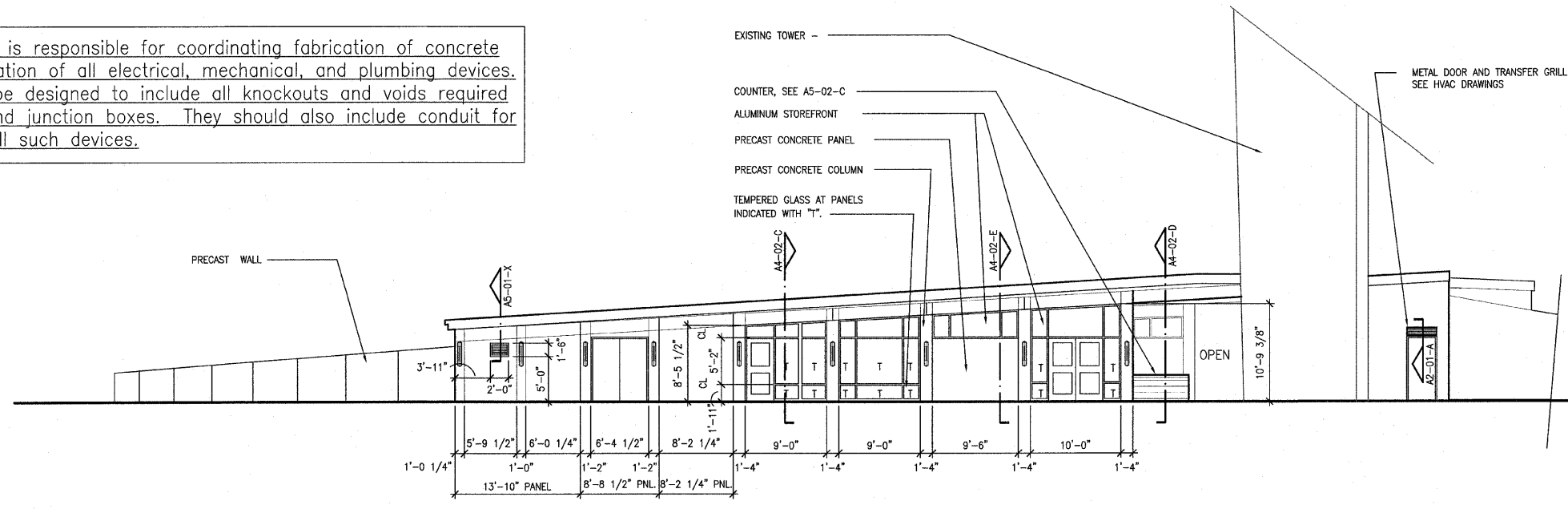
A4-01

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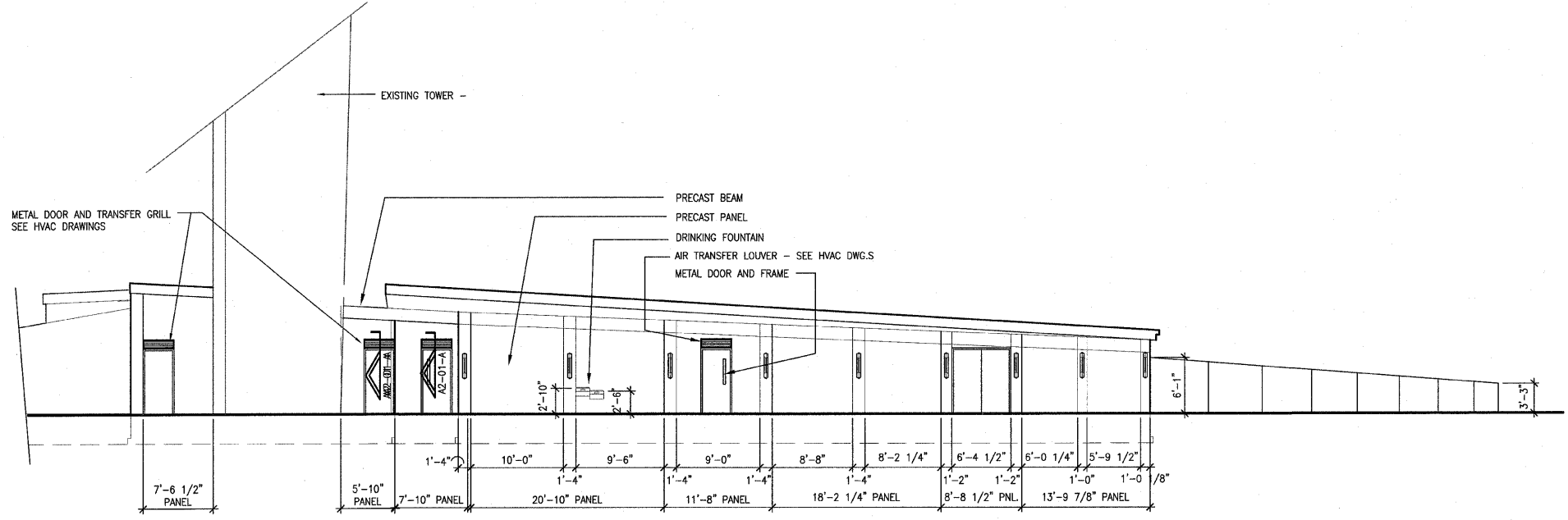
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON 97331	51	27

FEDERAL AID PROJECT

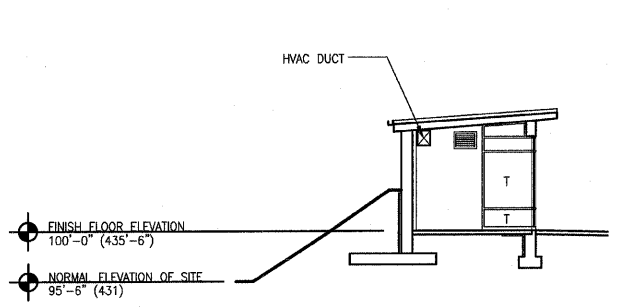
Note: Precaster is responsible for coordinating fabrication of concrete panels with location of all electrical, mechanical, and plumbing devices. Panels should be designed to include all knockouts and voids required for ductwork and junction boxes. They should also include conduit for the wiring of all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



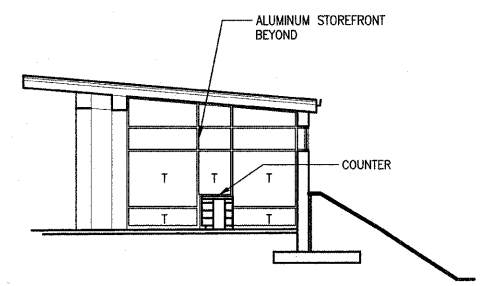
A NORTH BUILDING PLAZA ELEVATION
1/8"=1'-0"



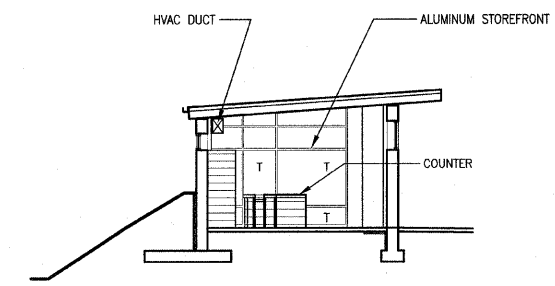
B SOUTH BUILDING PLAZA ELEVATION
1/8"=1'-0"



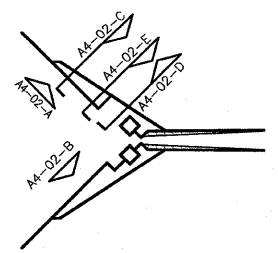
C SECTION AT NORTH BUILDING
1/8"=1'-0"



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



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



KEY PLAN, N.T.S.

P:\2002\10-02048\600083\PHASE-2\2B\PHASE2A\A4-02.DWG | 5/1/2006 3:47:04 PM | Xref's: BS-ELEV TB24360DL BS-PLAN-2A | Images: none

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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

A4-02

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	28
	06-00026-01-MS	97331		

FEDERAL AID PROJECT

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VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
EXTERIOR BUILDING ELEVATIONS

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

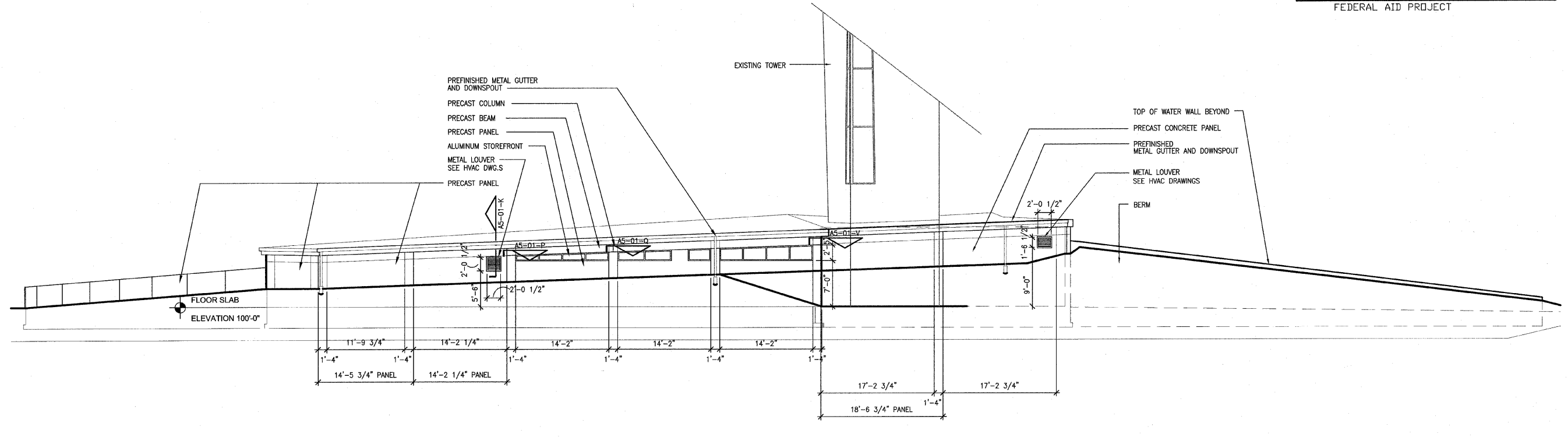
KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

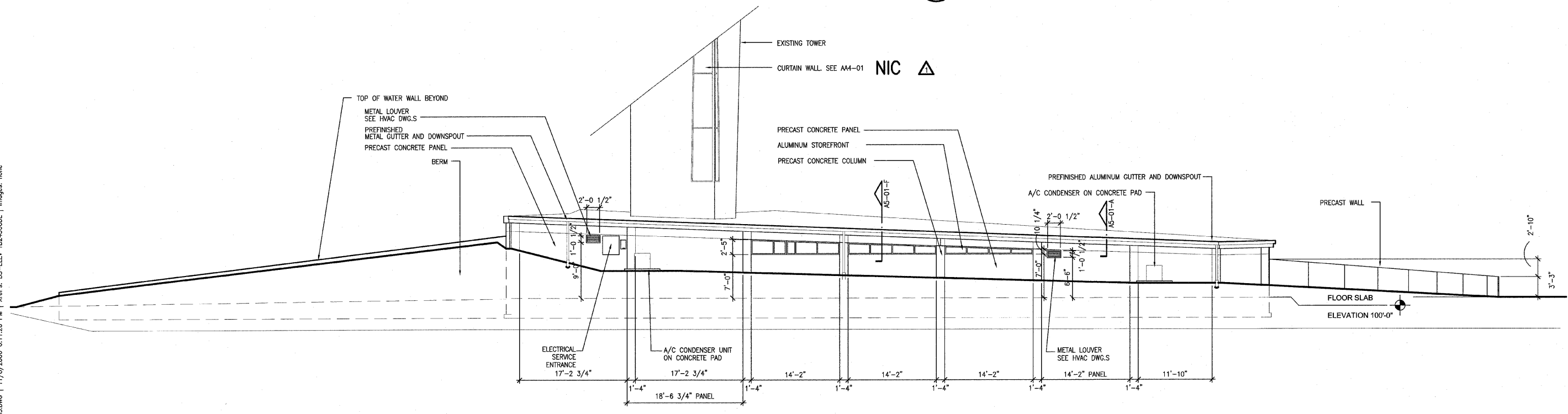
SHEET NO

A4-03

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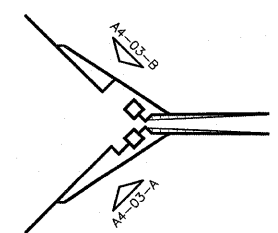


A SOUTH ELEVATION OF SOUTH BUILDING
1/8"=1'-0"



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.

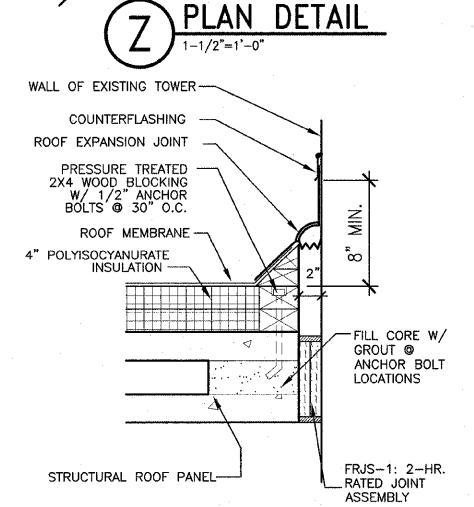
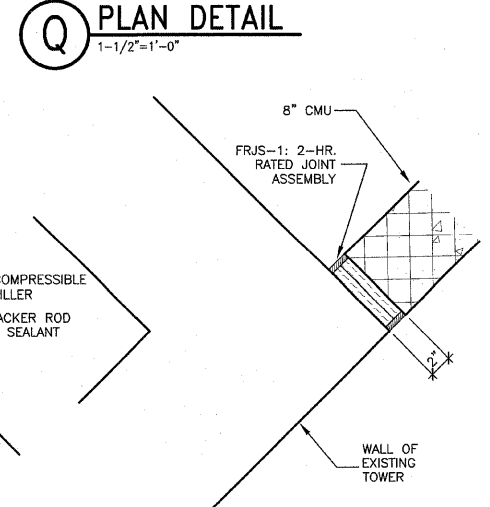
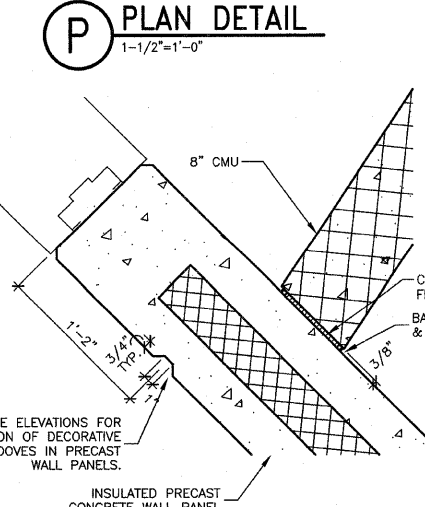
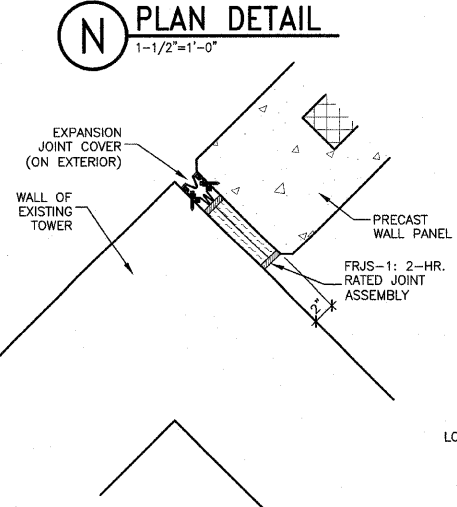
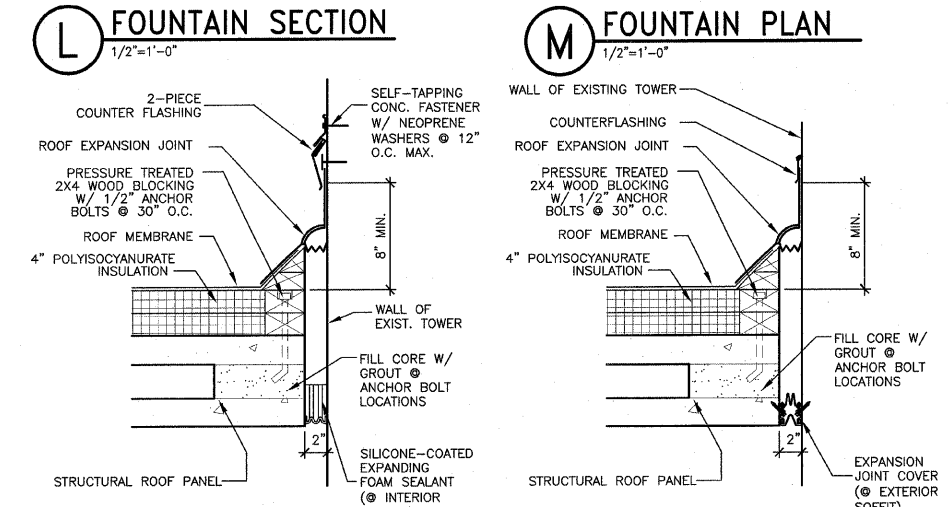
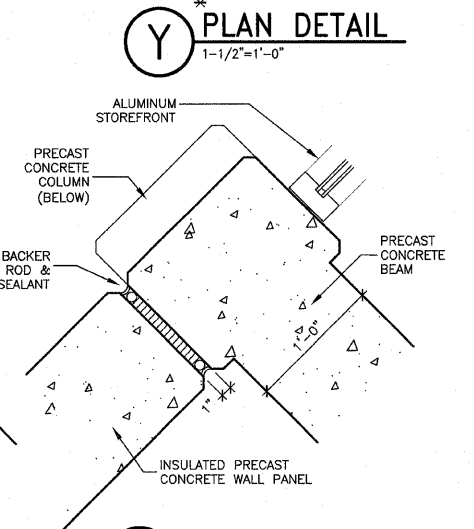
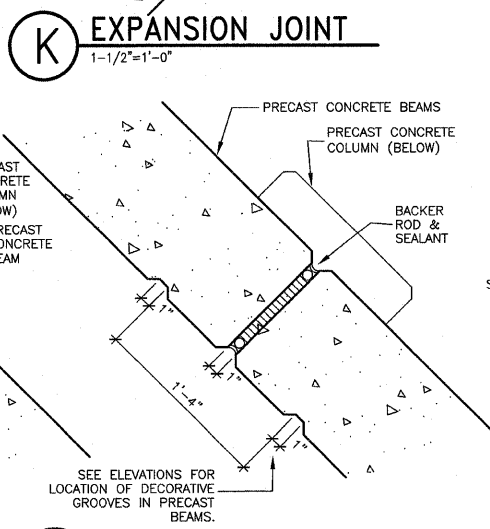
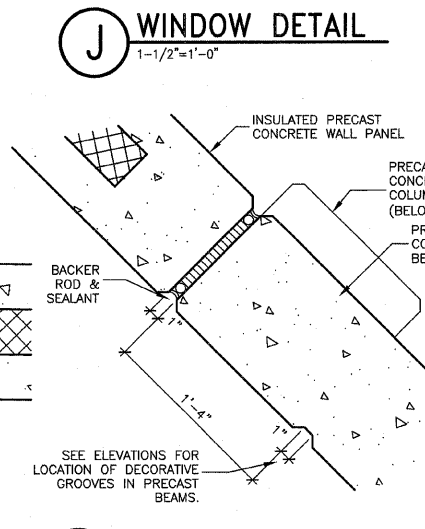
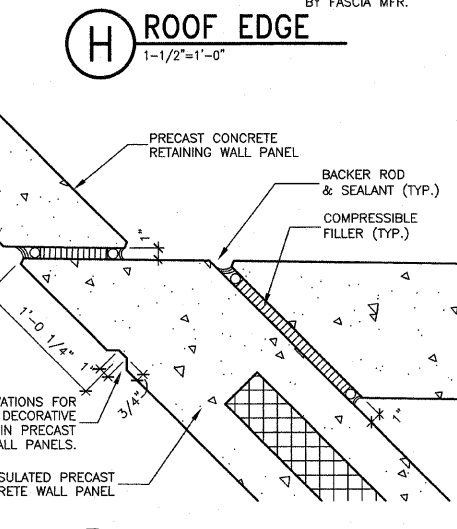
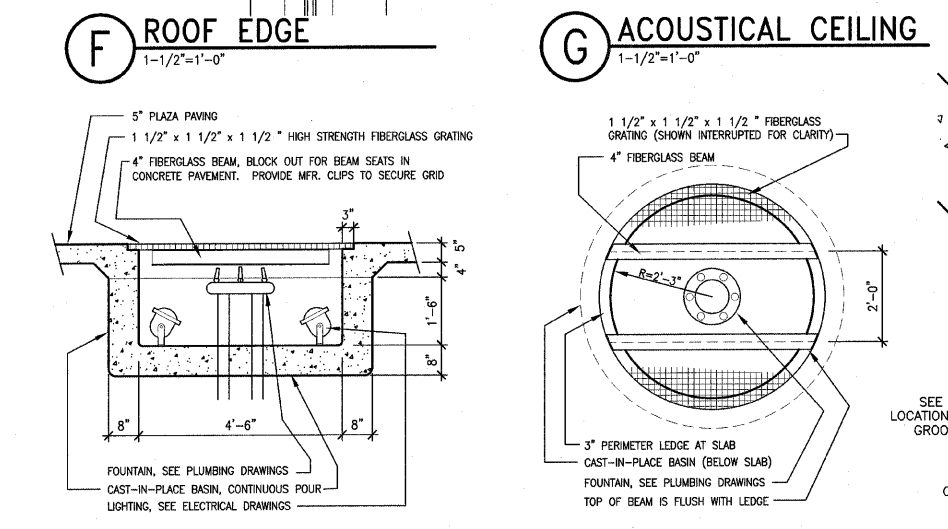
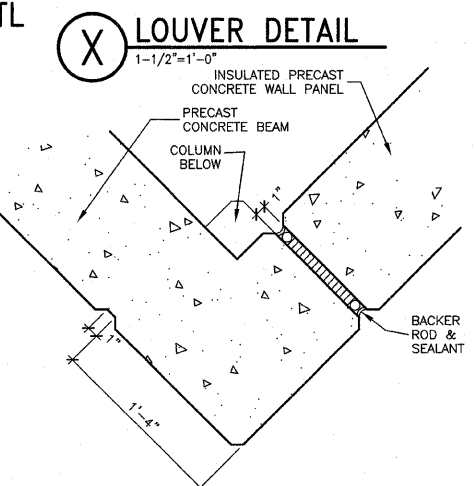
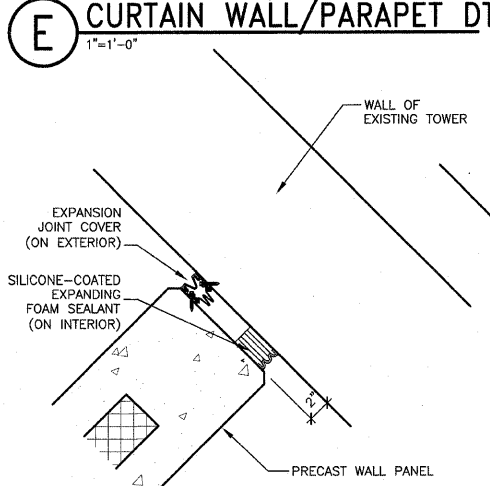
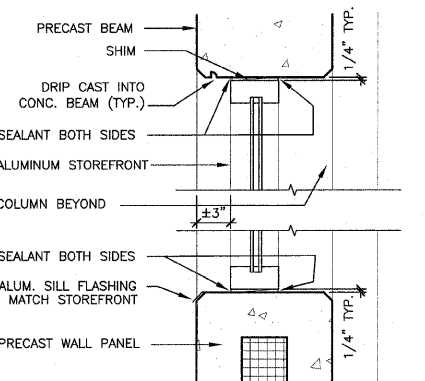
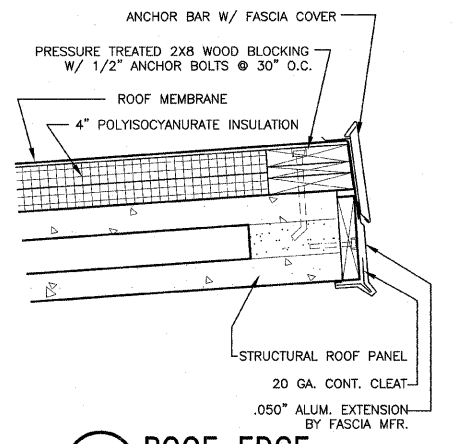
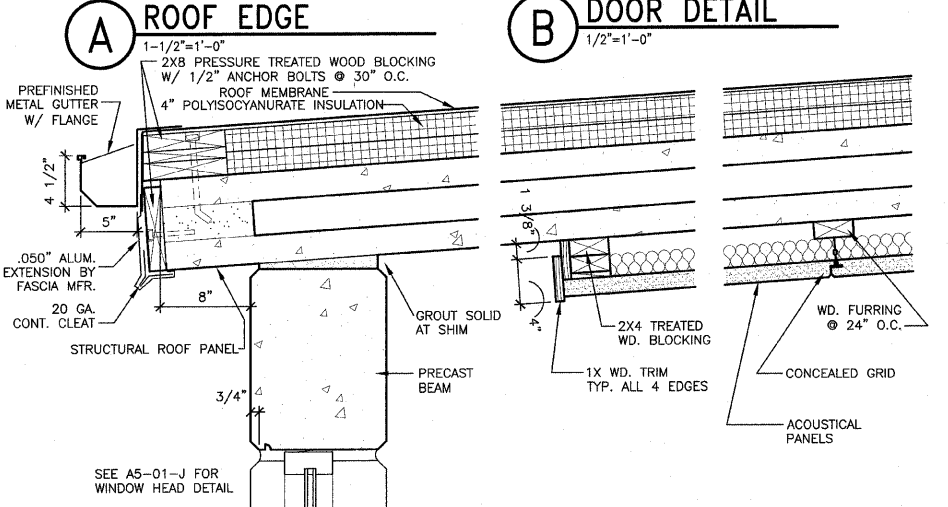
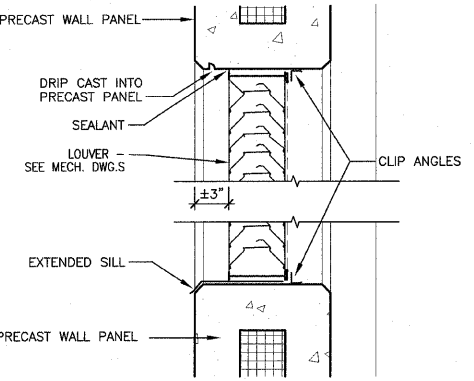
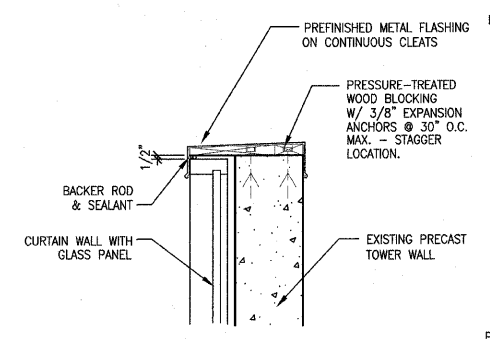
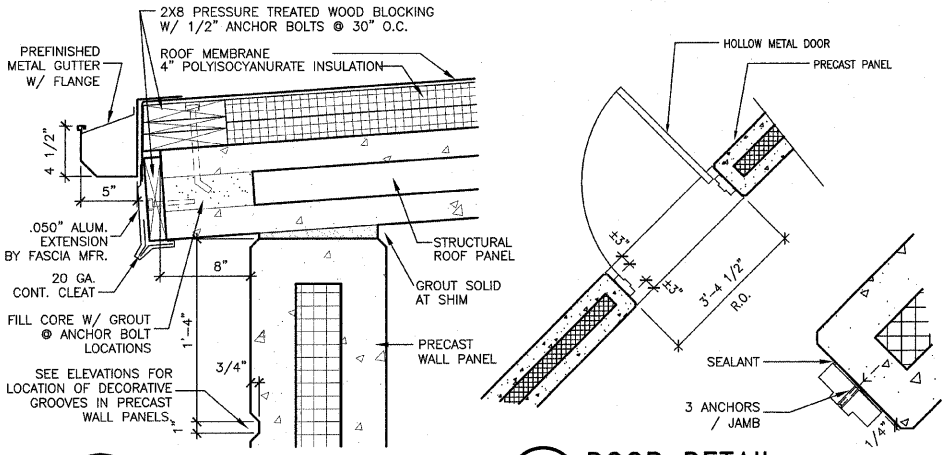


KEY PLAN, N.T.S.

P:\2002\10-02048\600DSC\PHASE-2\A3\PHASE2\A4-03.DWG | 11/8/2006 6:11:20 PM | Xref's: BS-ELEV TB2436CDL | Images: none

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	29
	06-00026-01-MS	97331		

FEDERAL AID PROJECT



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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
DETAILS

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

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

A5-01

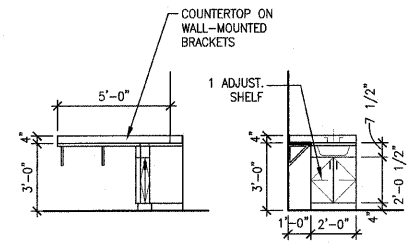
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	30
	06-00026-01-MS	97331		

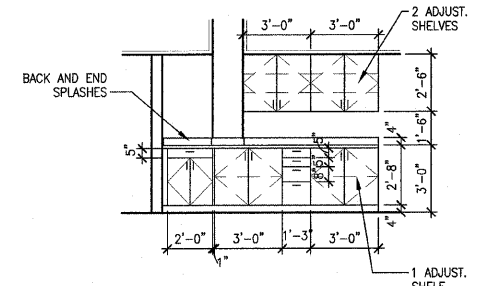
FEDERAL AID PROJECT

KEYED NOTES:

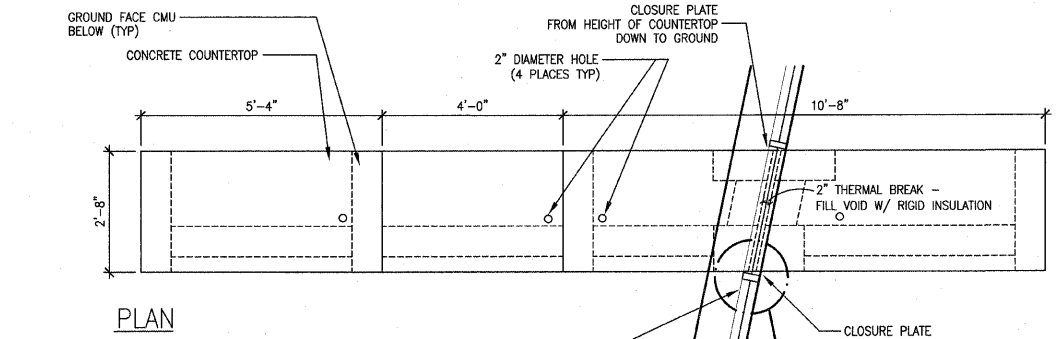
- 03-21 EXISTING PRECAST CONCRETE WALL
- 03-65 EXISTING PRECAST CONCRETE CONDUCTOR HEAD
- 05-54 #5 DOWELS
- 06-03 2 X TREATED WOOD BLOCKING
- 07-09 RIGID ROOF INSULATION
- 07-26 FLASHING
- 07-27 COUNTER FLASHING
- 07-28 EXTRUDED ALUMINUM COPING
- 07-37 ROOF HATCH
- 07-44 SEALANT
- 07-48 EPDM MEMBRANE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



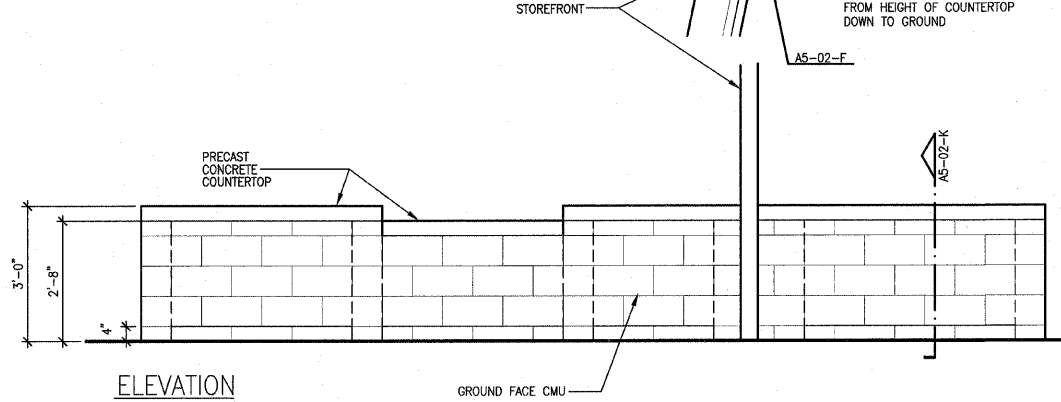
A ELEVATION @ VENDING
1/4"=1'-0"



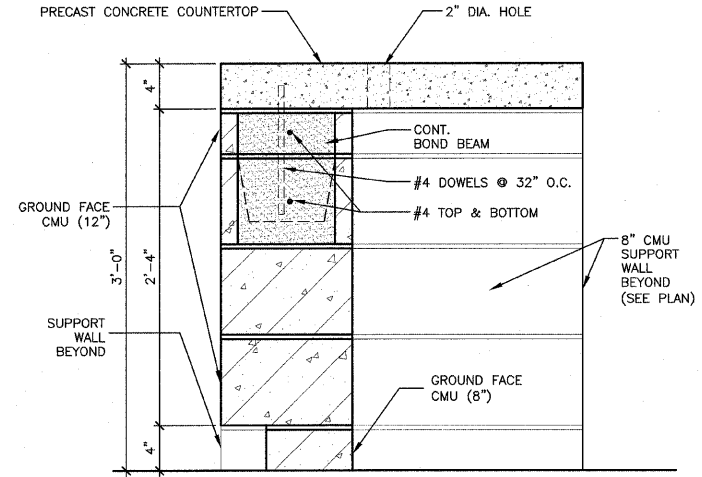
B CABINETS @ CONTROL DESK
1/4"=1'-0"



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



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



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

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HARTFORD, ILLINOIS 62049

SHEET TITLE
DETAILS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

A5-02

REV. NO.	REMARKS	DATE
1	DOT SUBMISSION	11-08-08

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

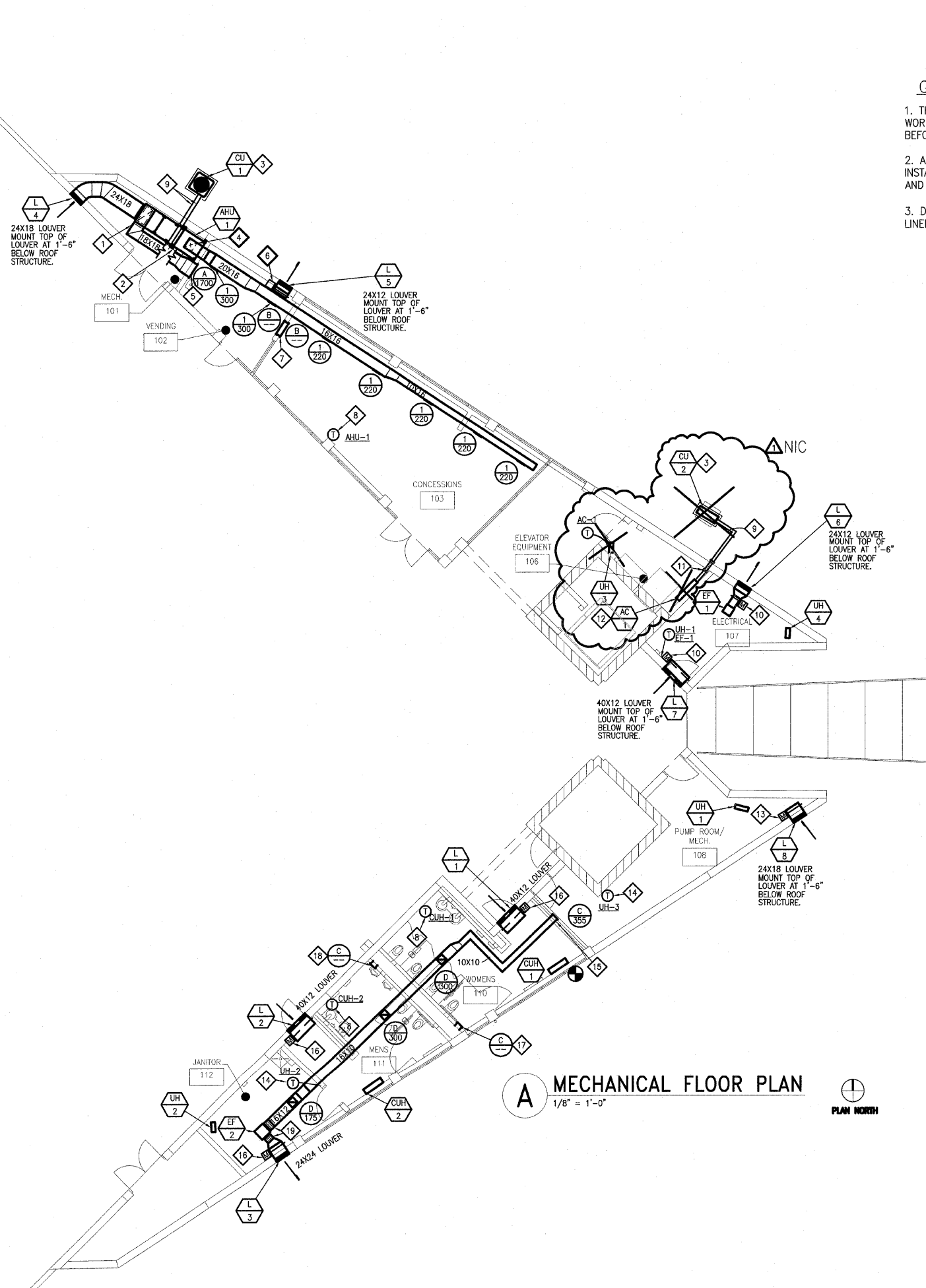
M3-01

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".
- 16 INTERLOCK DAMPER TO OPEN WITH ACTIVATION OF EF-2. PROVIDE AN 20 GAGE GALVANIZED PLENUM TO MOUNT DAMPER.
- 17 MOUNT TOP OF GRILLE AT 1'-6" BELOW STRUCTURE. EXTEND DUCTWORK INTO CHASE AND LEAVE END OPEN TO SPACE.
- 18 MOUNT TOP OF GRILLE AT 1'-6" BELOW STRUCTURE. EXTEND DUCTWORK INTO CHASE AND LEAVE END OPEN TO SPACE.
- 19 FLEXIBLE CONNECTORS.



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



AIR HANDLING UNIT

MARK	AREA SERVED	MFR.	MODEL	SUPPLY FAN			OUTDOOR AIR			DX COOLING COIL CAPACITIES					ELECTRIC HEATING COIL CAPACITIES			ELECTRICAL		NOTES					
				NOM CFM	TSP "WC	ESP "WC	HP	CFM	DB °F	WB °F	SENS. MBH	TOT. MBH	EAT °F	EAT °F	LAT °F	LAT °F	AIR PD "WC	TOT. MBH	EAT °F		LAT °F	ELECTRICAL KW	V/PH/Hz	AIR PD "WC	V/PH/Hz
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

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 °F	REFRIG. TYPE	BTUH	FAN HP	V/PH/Hz	INDOOR FLA			
AC-1	ELEVATOR EQUIPMENT	CARRIER	38BNE018	726	-	-	10.5	88	87	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

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. EACH	QTY. CKTS	QTY. FANS	HP EACH			V/PH/Hz	FLA (MCA)			
CU-1	AHU-1	CARRIER	38BR0036	36	-	95	0	1	3	1	1	1/5	12	22	208/3/60	(20)	186	1,2,3,4,5,6,7,8,9,10,11
CU-2	AC-1	CARRIER	38BNE018	18	-	95	0	1	1.5	1	1	1/4	10	22	208/1/60	(11)	157	2,9

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

AIR DEVICE

PLAN MARK	SUPPLY DIFFUSERS								EXHAUST / RETURN / TRANSFER GRILLES									
	MANUFACTURER & MODEL NO.	NECK SIZE	FACE SIZE	MOUNT	MATE-RIAL	ACCES-SORIES	FINISH	TYPE	NOTES	MANUFACTURER MODEL NO.	NECK SIZE	FACE SIZE	MOUNT	MATE-RIAL	ACCES-SORIES	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
										D	TITUS 350FL	12X12	-	DUCT 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-1	RUSKIN	EME520DD	12X40X5	INTAKE	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.04	1
L-2	RUSKIN	EME520DD	12X40X5	INTAKE	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.04	1
L-3	RUSKIN	EME520DD	24X24X5	EXHAUST	ALUM.	ALUM.	CLEAR. ANODIZED	500	99.3	.04	1
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

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	1,7,8,9,10
UH-2	JANITOR	MARKEL	5100	WALL-MOUNT	400	3.3	1	11.5	208/3/60	6.9	30	1,7,8,9,10
UH-3	ELEV. EQUIP.	MARKEL	5100	WALL-MOUNT	400	3.3	1	11.5	208/3/60	6.9	30	1,7,8,9,10
UH-4	ELECT.	MARKEL	5100	WALL-MOUNT	400	3.3	1	11.5	208/3/60	6.9	30	1,7,8,9,10
CUH-1	WOMEN'S	MARKEL	6333-06	FLOOR-MOUNT	250/230	6	2	20.4	208/3/60	17.6	118	1,2,3,4,5,6
CUH-2	MEN'S	MARKEL	6333-06	FLOOR-MOUNT	250/230	6	2	20.4	208/3/60	17.6	118	1,2,3,4,5,6

NOTES:
1.) 3-POLE CIRCUIT BREAKER/DISCONNECT
2.) 1" PLEATED MEDIA FILTER
3.) KICK SPACE PEDESTAL
4.) FRONT INLET/TOP OUTLET
5.) FACTORY MOUNTED TRANSFORMER
6.) INTEGRAL THERMOSTAT
7.) WALL BRACKET WITH DUST SHIELD
8.) OSHA FAN GUARD
9.) LOW VOLTAGE THERMOSTAT
10.) TRANSFORMER AND CONTACTOR

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
EF-2	TOL./PUMP	COOK	120SQN-B	ILC	1130	.35	1370	BELT	12.5	1/4	115/1/60	5.8	193	1,2,3,4,5,6,7,8,9,10,11,12

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.) 24 HOUR TIME CLOCK
7.) 115V MOTORIZED DAMPER
8.) FLANGED INLET
9.) FLANGED OUTLET
10.) INLET COMPRESSION FLANGE
11.) OUTLET COMPRESSION FLANGE
12.) INLET/OUTLET FLEXIBLE DUCT CONNECTORS
TYPE: 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 70°F.

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	7.75" WIDE 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	-	-	-	-	-

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KAI

LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
MECHANICAL SCHEDULES

REV. NO.	DATE	REMARKS
1	11-08-06	DOT SUBMISSION

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

M3-02

FA-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	33
	06-00026-01-MS	97331		

FEDERAL AIA PROJECT
KEYED NOTES:

- 1 2"W UP
- 2 4"W UP
- 3 1 1/2"V UP
- 4 2"V UP
- 5 3"UP TO, FD-1
- 6 4"UP TO, FD-2
- 7 4"UP TO, FD-3
- 8 2 1/2" CW UP, SEE SHEET P3-02 FOR CONTINUATION.
- 9 3"UP TO, MB-1
- 10 3"UP TO, WCQ

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LEWIS AND CLARK MEMORIAL TOWER
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HARTFORD, ILLINOIS 62049

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

REV. NO.	REMARKS	DATE

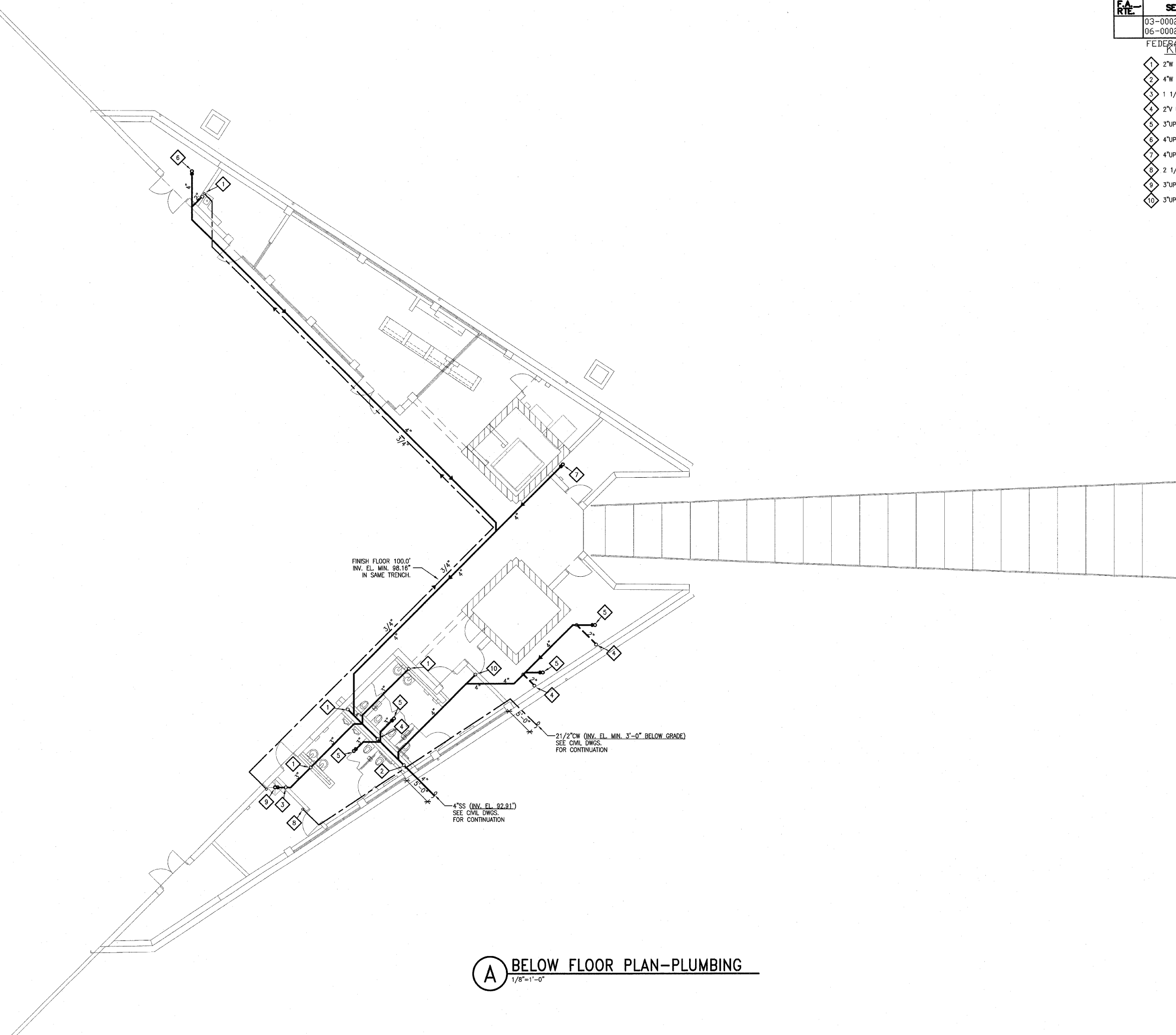
KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

P3-01

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	34
	06-00026-01-MS	97331		

REVISIONS AND 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".
- 3 1HW HY-1 AND 1 CW HY-1. PROVIDE SHUT OFF VALVES ACCESSIBLE BY ACCESS PANEL TO SHUT OFF HY-1'S.
- 4 PROVIDE SHUT OFF VALVE ACCESSIBLE BY ACCESS PANEL TO SHUT OFF DF-1.

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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

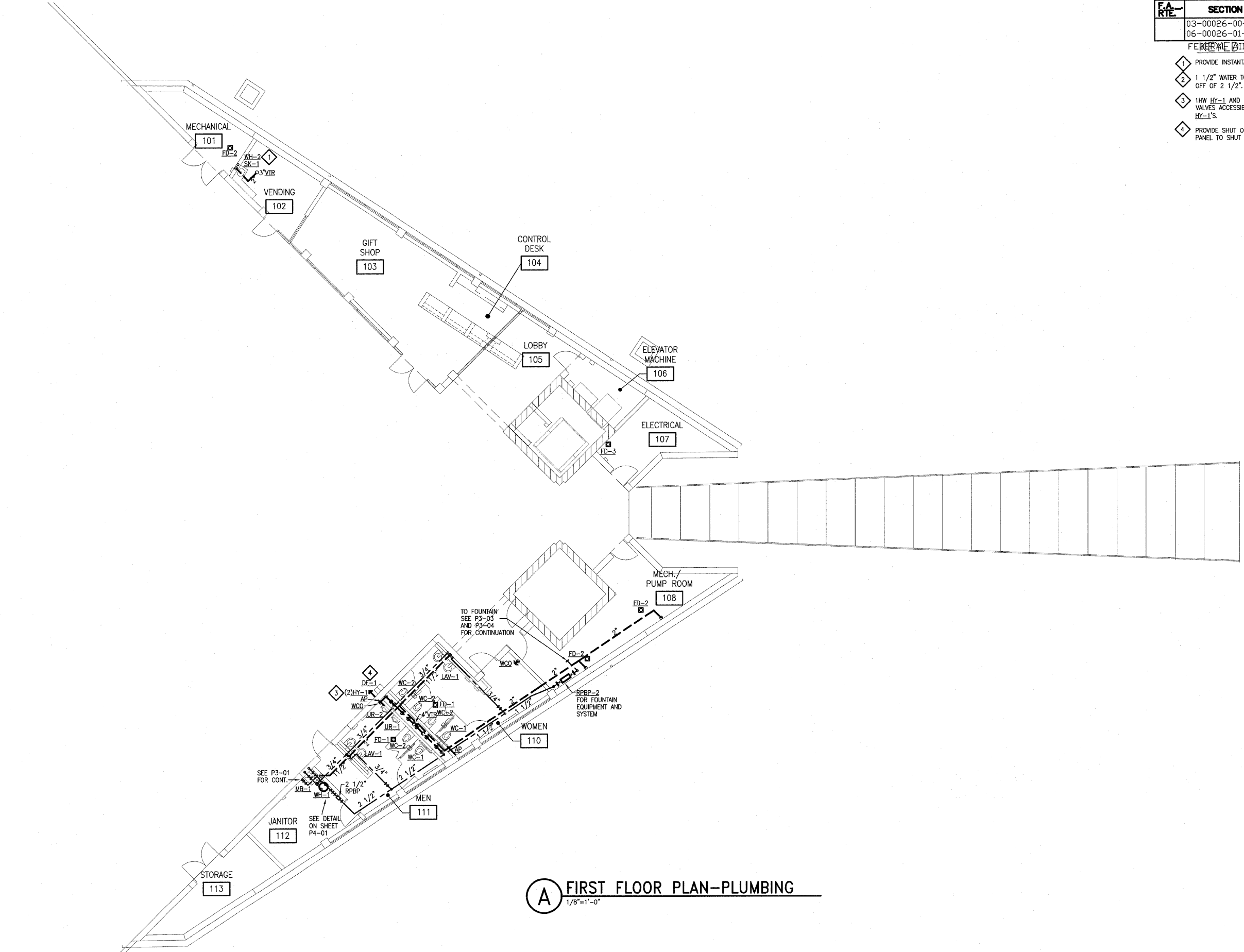
ISSUE DATE
 12-JULY-05

SHEET NO

P3-02

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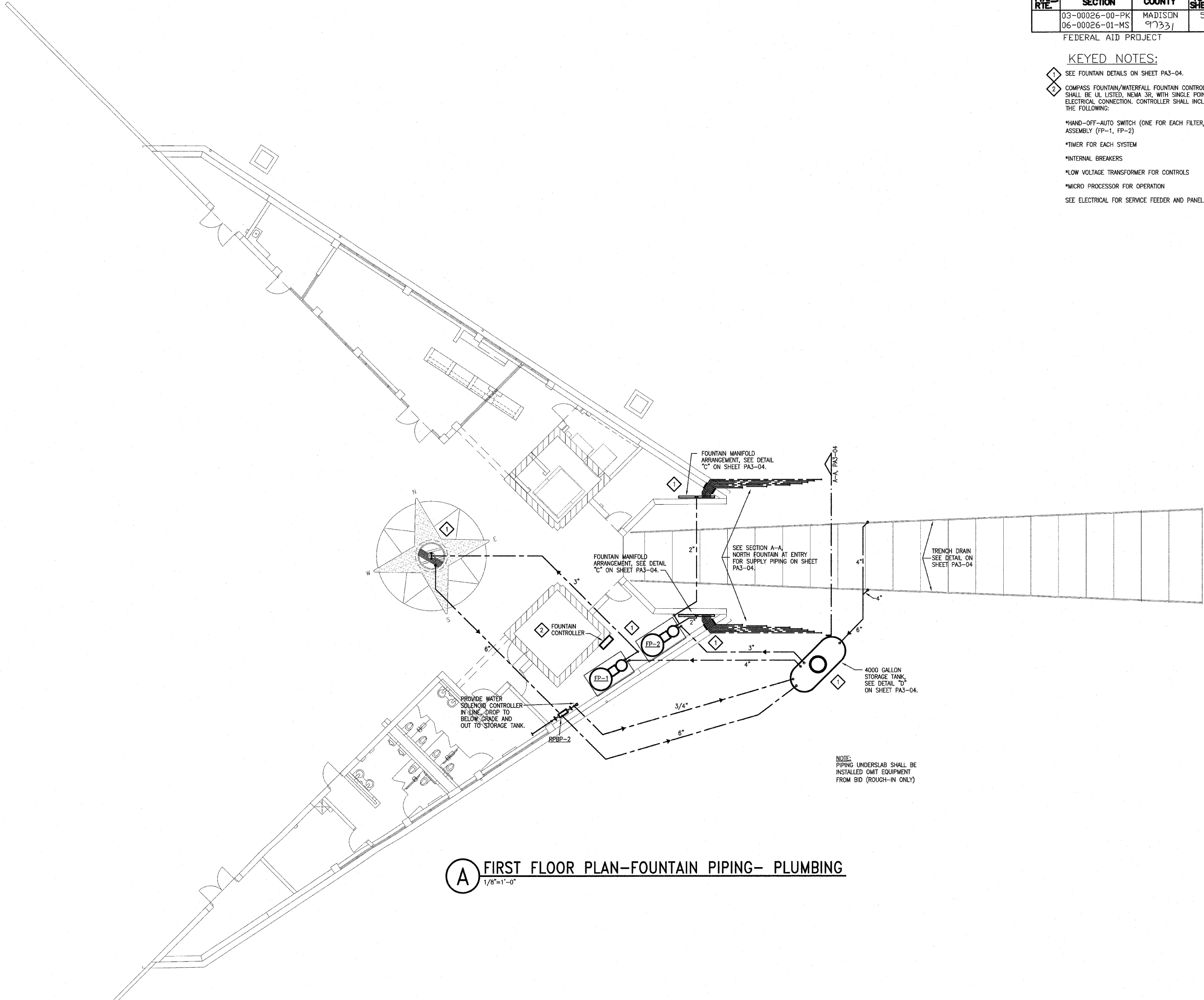
A FIRST FLOOR PLAN-PLUMBING
 1/8"=1'-0"

F.A.-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON 97331	51	35

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.



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

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LEWIS AND CLARK MEMORIAL TOWER
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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

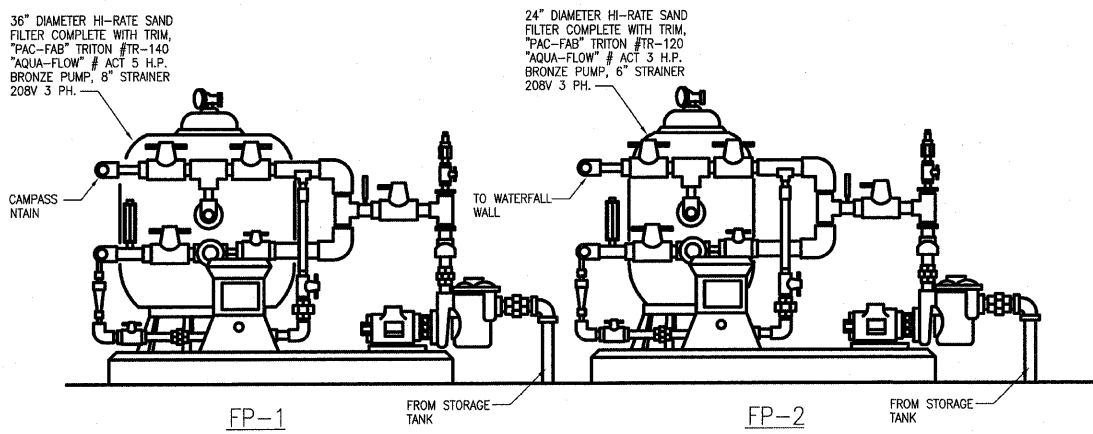
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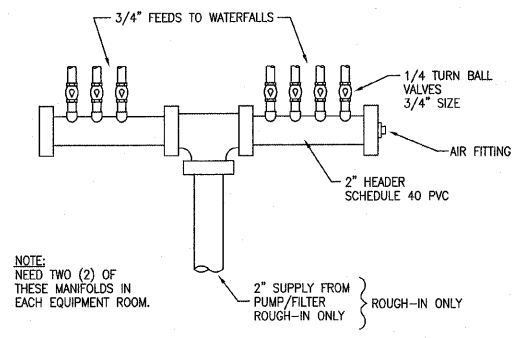
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	36
	06-00026-01-MS	97331		

FEDERAL AID PROJECT

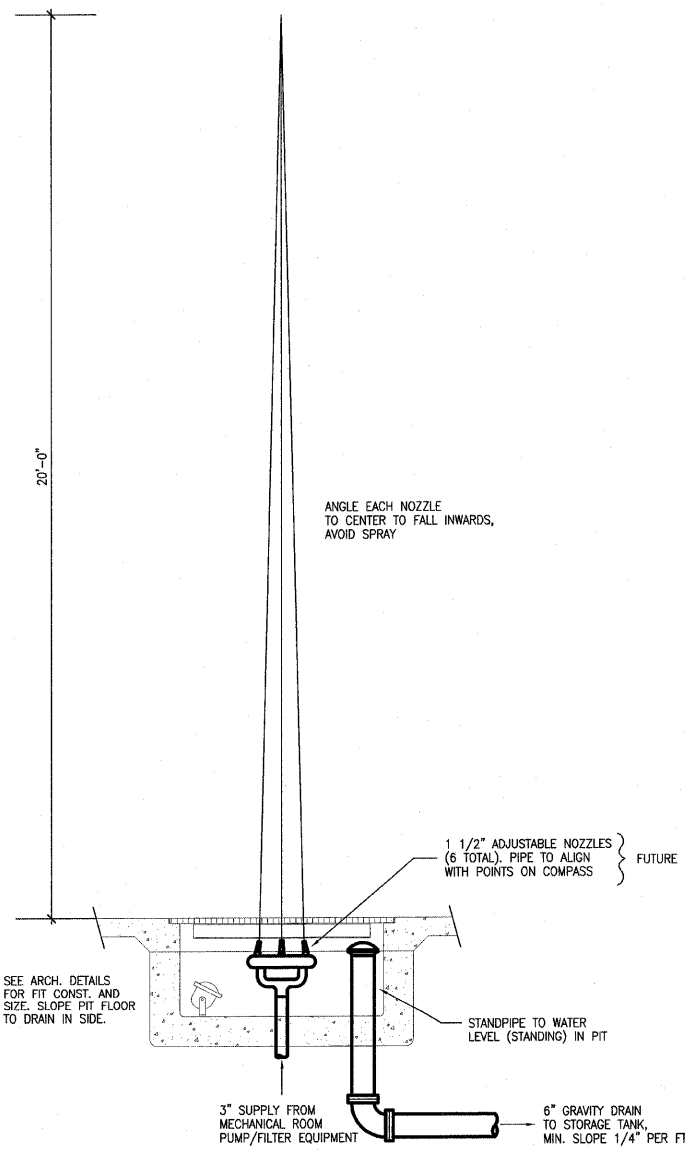
NOTE: PROVIDE AIR FITTING ON SYSTEM TO BLOW OUT FOR FREEZING PROTECTION.



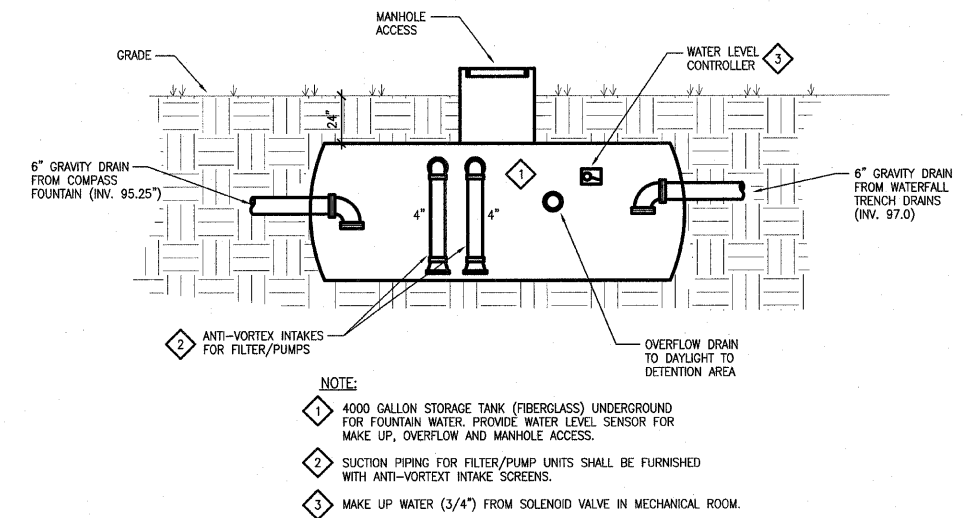
A FUTURE FILTER PUMP PIPING ARRANGEMENT
NOT TO SCALE



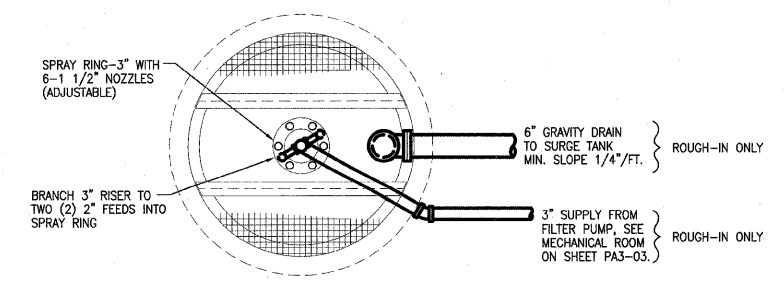
C FUTURE FOUNTAIN MANIFOLD ARRANGEMENT
NOT TO SCALE



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



D SCHEMATIC PIPING OF STORAGE TANK (ROUGH-IN ONLY)
NOT TO SCALE



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

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**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

P3-04

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	37
	06-00026-01-MS	97331		

FEDERAL AID PROJECT

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
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SHEET TITLE:
**LEGEND, SCHEDULES
AND DETAILS
PLUMBING**

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

P4-01

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PLUMBING FIXTURE CONNECTION SCHEDULE							
MARK	DESCRIPTION	WASTE	TRAP	VENT	COLD WATER	HOT WATER	REMARKS
WC-1	WATER CLOSET, WALL HUNG	4"	-	2"	1 1/2"	-	ADA, 17"A.F.F., ELEC. FLUSH VALVE
WC-2	WATER CLOSET, WALL HUNG	4"	-	2"	1 1/2"	-	15"A.F.F., ELEC. FLUSH VALVE
UR-1	URINAL, WALL HUNG	2"	-	2"	1"	-	ADA, 17"A.F.F., ELEC. FLUSH VALVE
UR-2	URINAL, WALL HUNG	2"	-	2"	1"	-	24"A.F.F., ELEC. FLUSH VALVE
LAV-1	LAVATORY	2"	1 1/2"	1 1/2"	1/2"	1/2"	ADA, ELEC. FAUCET
DF-1	DRINKING FOUNTAIN	1 1/2"	-	1 1/4"	1/2"	-	(ADULT) ADA, 40"/36"A.F.F.
MB-1	MOP BASIN, FLOOR SET	3"	-	2"	3/4"	3/4"	MANUAL FAUCET
HY-1	HYDRANT	-	-	-	3/4"	-	RECESSED, FREEZE PROOF
SK-1	SINGLE BOWL SINK	2"	1 1/2"	1 1/2"	1/2"	1/2"	MAN. FAUCET

MAN. & MODEL NO.
 KOHLER#K-4330/SLOAN#111ES-S
 KOHLER#K-5016-ET/SLOAN#186-1.0ES-S
 ACORN#3702-2-SO-EB-MXT
 STERN WILLIAMS#BF-5000 FP
 STERN WILLIAMS#SB-902/T-10-VB/T-35/T-40/BP
 RECESSED, FREEZE PROOF
 ELKAY#DE-11515/S-23

NOTE: 1. SIZES LISTED ARE MINIMUM CONNECTIONS REQUIRED TO FIXTURES.

DRAIN SCHEDULE					
MARK	MANUFACTURER	MODEL NO.	OUTLET SIZE	STRAINER MATERIAL	REMARKS
FD-1	J.R.SMITH	2010	3"	NICKEL BRONZE	TOILET ROOM
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-1	FEBCO	860	2 1/2"	HORIZONTAL	DOMESTIC WATER/MECHANICAL ROOM
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-1	BRADFORD WHITE	LD-WH30L3-1C015	30 GAL.	6 GPH	1.5KW	120/1	JANITOR CLOSET
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
- DF DRINKING FOUNTAIN
- EWC 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 BACK FLOW PREVENTER
- THERMOMETER
- GAUGE
- PRESSURE/TEMPERATURE TEST PLUG
- FLOW MEASURING DEVICE
- INDICATES PLUMBING RISER & DRAWING REFERENCE
- CW COLD WATER
- HW HOT WATER (105°)
- HWR HOT WATER RETURN
- SV 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

A SLEEVE DETAILS
N.T.S.

B WATER HEATER SUPPORT DETAIL
N.T.S.

C FLOOR DRAIN DETAIL
N.T.S.

D CLASS "C" BEDDING DETAIL
N.T.S.

E FLOOR CLEANOUT
N.T.S.

F REDUCED PRESSURE BACKFLOW PREVENTER
N.T.S. COORDINATE LOCATION OF RPBP-1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON 97331	51	38

FEDERAL AID PROJECT

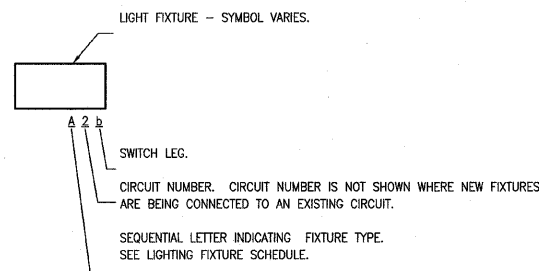
GENERAL NOTES

- 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.

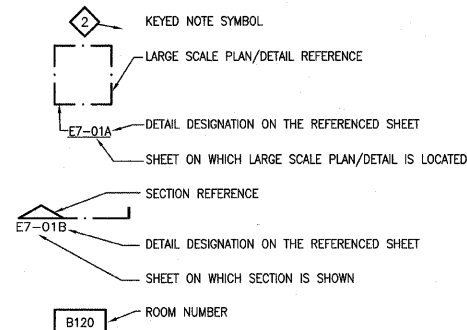
ABBREVIATIONS

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
SURF	SURFACE
SWBD	SWITCHBOARD
SWBT	SOUTHWESTERN BELL TELEPHONE
SYM	SYMMETRICAL
TELE	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

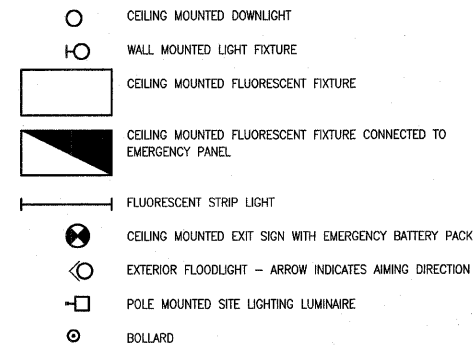
LIGHT FIXTURE DESIGNATION MATRIX



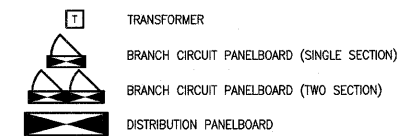
MISCELLANEOUS



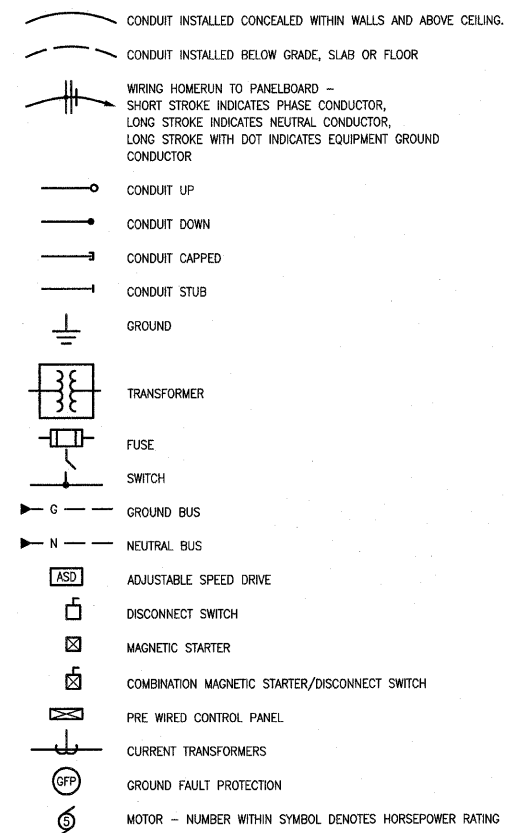
LIGHTING



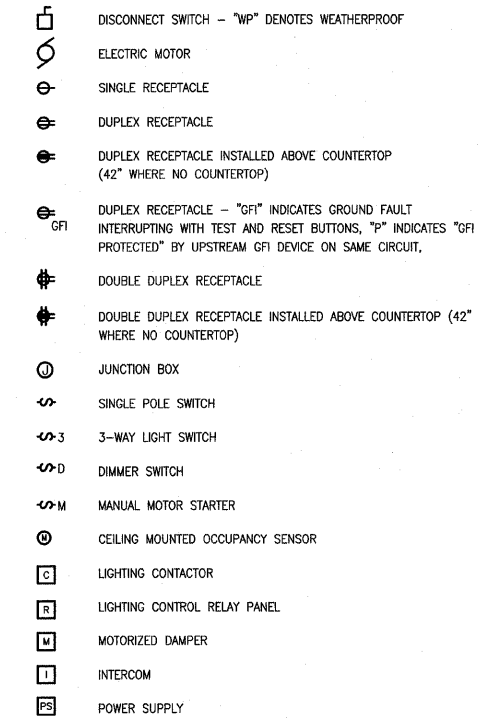
DISTRIBUTION EQUIPMENT



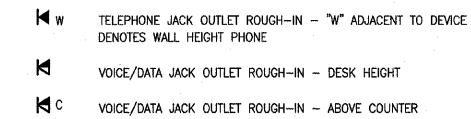
ONE LINE/WIRING/CONDUIT



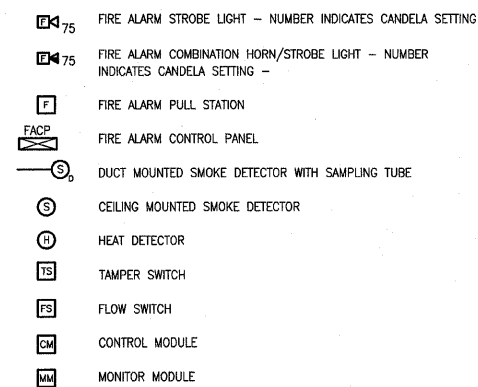
WIRING DEVICES



VOICE/DATA



FIRE ALARM



NOTE

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

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**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

E1-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	39
	06-00026-01-MS	97331		

FEDERAL AID PROJECT

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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

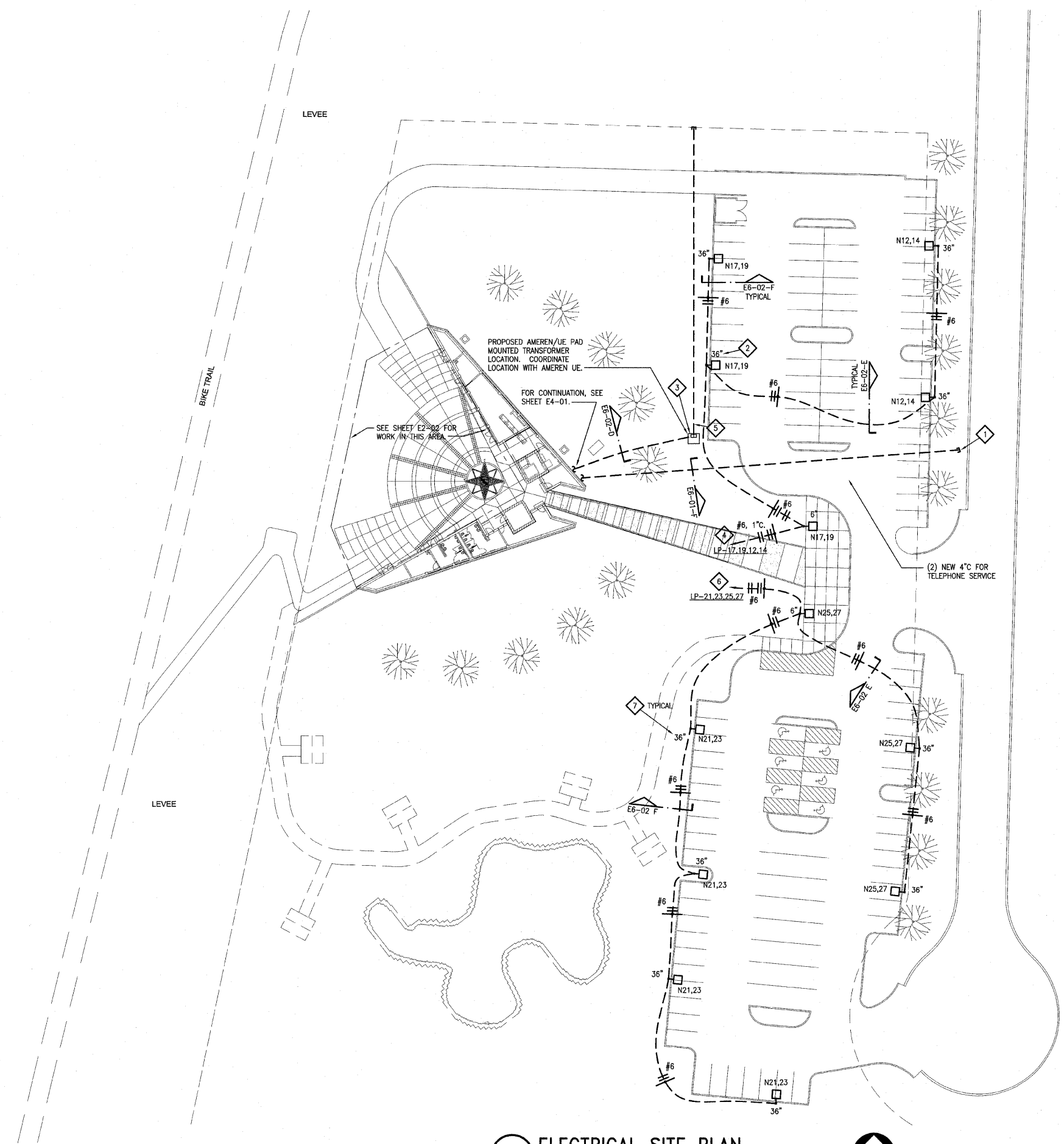
SHEET NO

E2-01

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KEYED NOTES

- 1 CONDUIT SHALL BE EXTENDED TO PROPERTY LINE, CAPPED AND LABELED TELEPHONE, AND STAKED FOR LOCATION.
- 2 DIMENSION DENOTES HEIGHT OF CONCRETE BASE ABOVE GRADE. TYPICAL FOR ALL POLES. SEE DETAILS ON SHEET E6-02 FOR ADDITIONAL INFORMATION.
- 3 E.C. SHALL FURNISH AND INSTALL TRANSFORMER PAD. SEE DETAIL B, SHEET E6-02.
- 4 EXTEND AND CONNECT TO PANEL VIA CONTACTOR C1. SEE SHEET E4-01 FOR CONTACTOR LOCATION.
- 5 (2) 5" UNDERGROUND PVC CONDUITS FOR PRIMARY SERVICE ENTRANCE. EXTEND TO PROPERTY LINE AND CAP OFF BELOW GRADE. PROVIDE IN ACCORDANCE WITH AMEREN UE REQUIREMENTS.
- 6 EXTEND AND CONNECT TO PANEL VIA CONTACTOR. SEE SHEET E4-01 FOR LOCATION OF CONTACTOR C2.
- 7 DIMENSION DENOTES HEIGHT OF CONCRETE BASE ABOVE GRADE. TYPICAL FOR ALL POLES. SEE DETAIL A ON SHEET E6-02 AND DETAIL E ON SHEET E6-01 FOR ADDITIONAL INFORMATION.



A ELECTRICAL SITE PLAN
1"=30'



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON	51	40

FEDERAL AID PROJECT

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE:
PLAZA LIGHTING PLAN

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

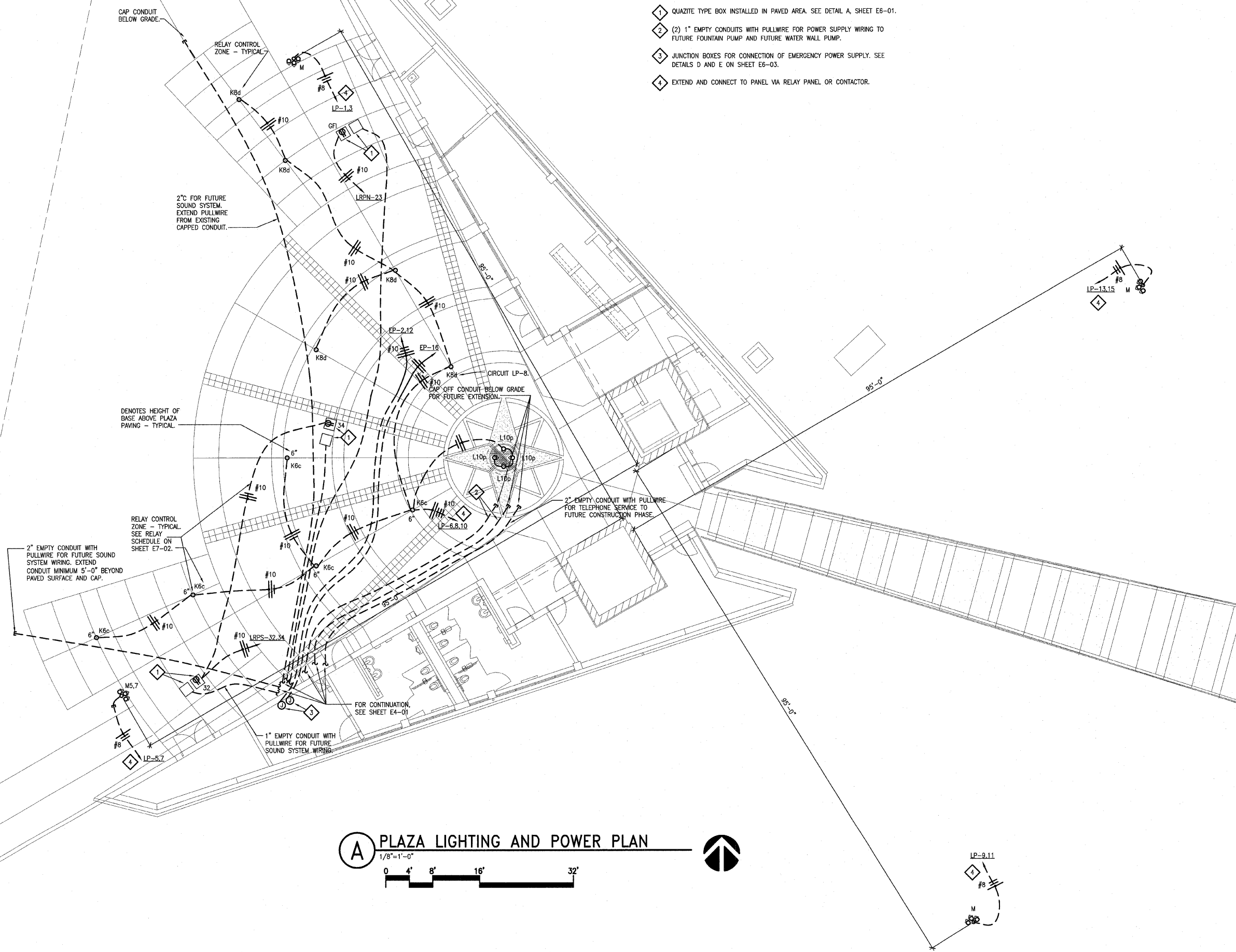
SHEET NO

E2-02

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KEYED NOTES

- 1 QUARTZITE TYPE BOX INSTALLED IN PAVED AREA. SEE DETAIL A, SHEET E6-01.
- 2 (2) 1" EMPTY CONDUITS WITH PULLWIRE FOR POWER SUPPLY WIRING TO FUTURE FOUNTAIN PUMP AND FUTURE WATER WALL PUMP.
- 3 JUNCTION BOXES FOR CONNECTION OF EMERGENCY POWER SUPPLY. SEE DETAILS D AND E ON SHEET E6-03.
- 4 EXTEND AND CONNECT TO PANEL VIA RELAY PANEL OR CONTACTOR.



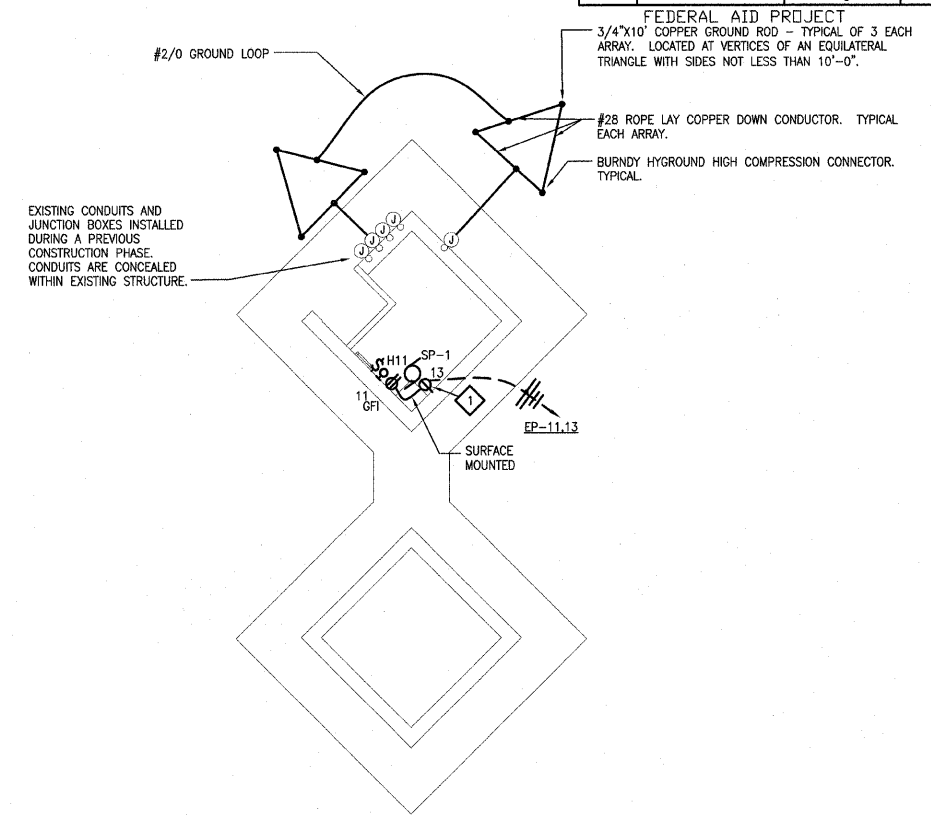
A PLAZA LIGHTING AND POWER PLAN
1/8"=1'-0"
0 4' 8' 16' 32'



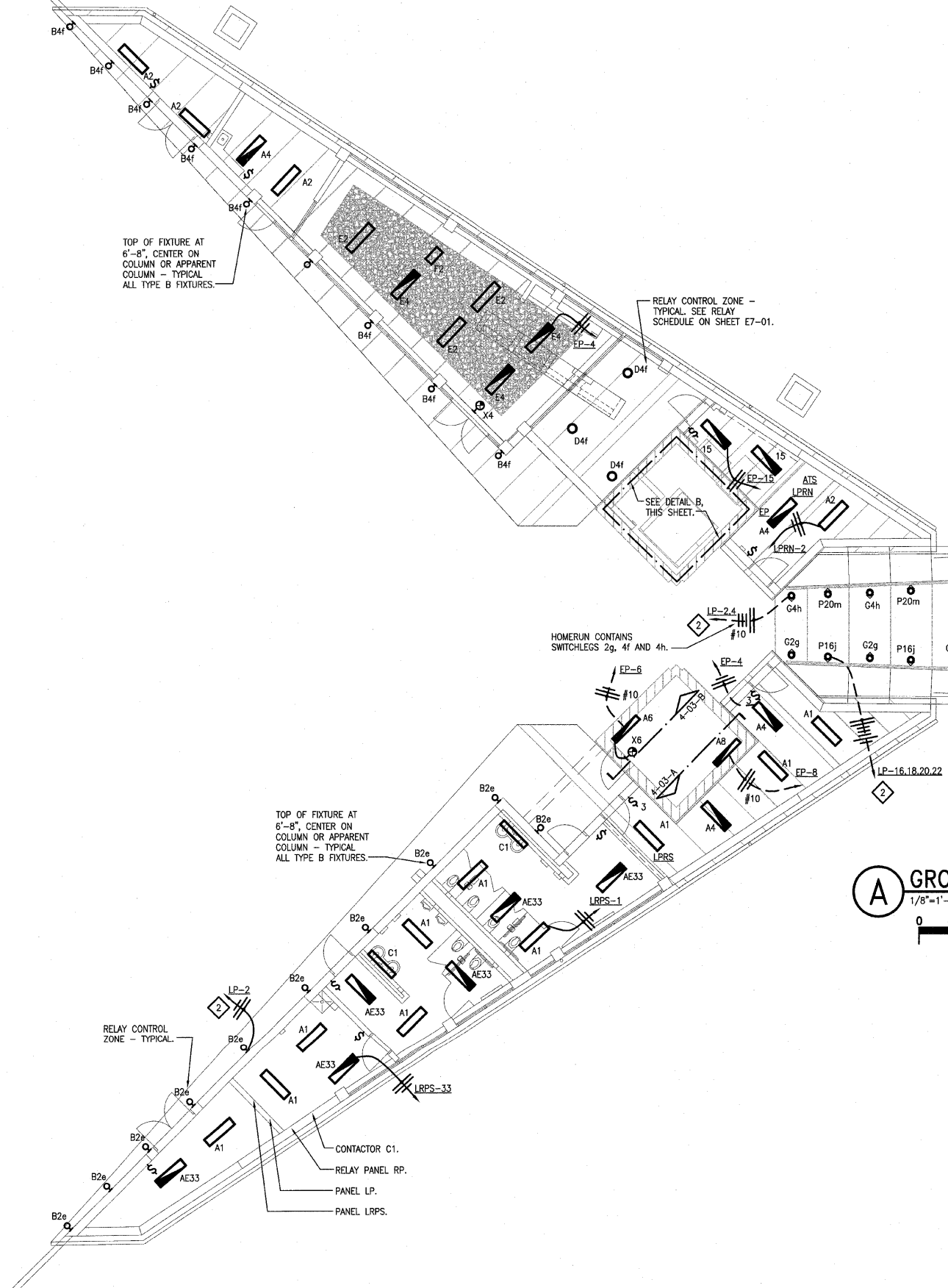
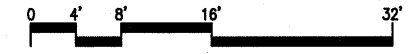
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	41
	06-00026-01-MS	97331		

KEYED NOTES

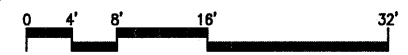
- 1 E.C. SHALL FURNISH AND INSTALL SINGLE RECEPTACLE SURFACE MOUNTED IN ELEVATOR PIT FOR SUMP PUMP CONTROL PANEL. PROVIDE SURFACE MOUNTED 4" PVC CONDUIT BETWEEN CONTROL PANEL AND PUMP. E.C. SHALL INSTALL CABLES WHICH ARE PROVIDED WITH THE PUMP BETWEEN CONTROL PANEL AND PUMP WITHIN 4".
- 2 EXTEND AND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



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



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



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SHEET TITLE:
GROUND FLOOR LIGHTING PLAN

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI- 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

E3-01

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
 HARTFORD, ILLINOIS 62049

SHEET TITLE:
GROUND FLOOR POWER PLAN

REV. NO.	REMARKS	DATE

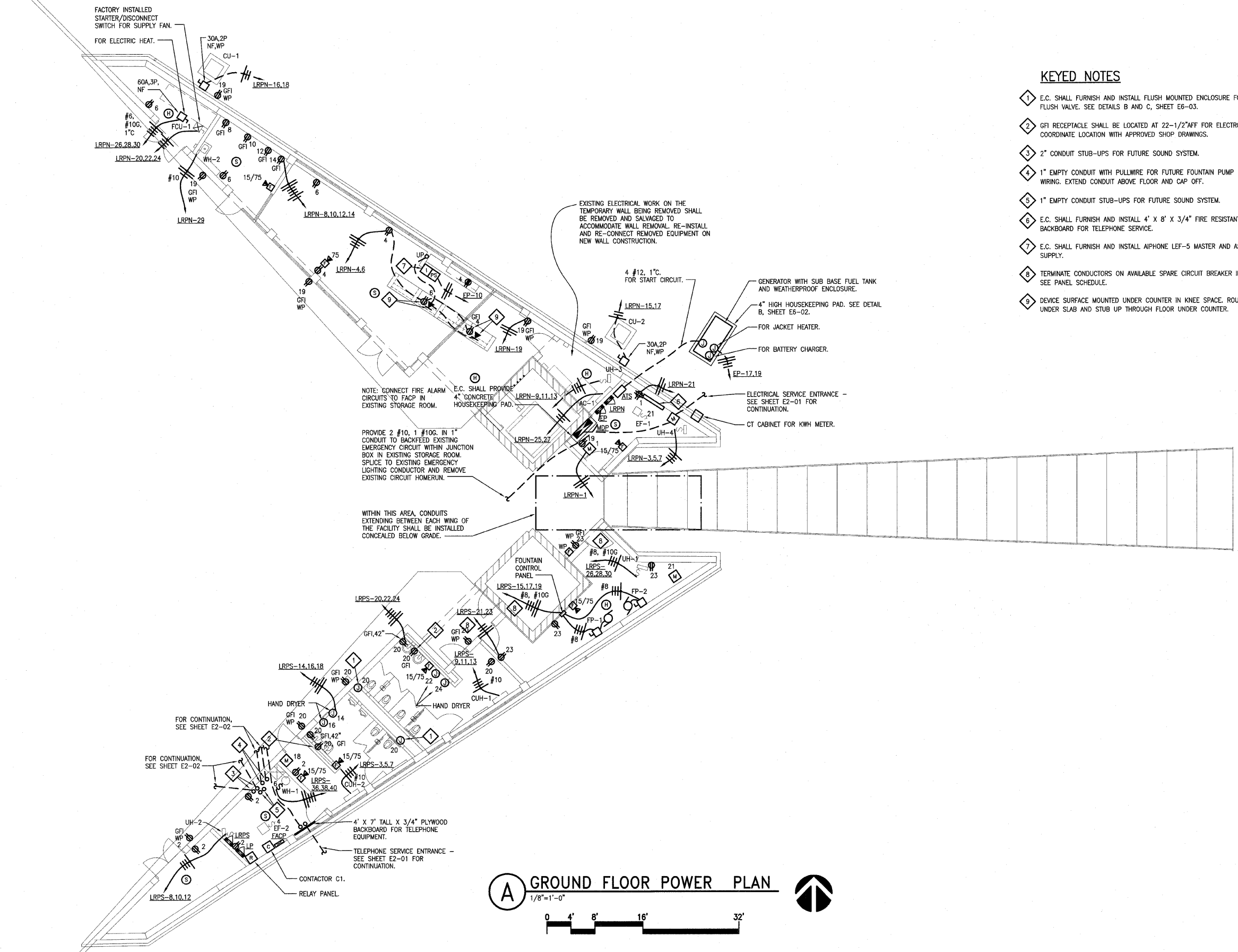
KENNEDY PROJECT NO
 KAI# 10-02048

ISSUE DATE
 12-JULY-05

SHEET NO

E4-01

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KEYED NOTES

- 1 E.C. SHALL FURNISH AND INSTALL FLUSH MOUNTED ENCLOSURE FOR ELECTRONIC FLUSH VALVE. SEE DETAILS B AND C, SHEET E6-03.
- 2 GFI RECEPTACLE SHALL BE LOCATED AT 22-1/2" AFF FOR ELECTRONIC FAUCETS. COORDINATE LOCATION WITH APPROVED SHOP DRAWINGS.
- 3 2" CONDUIT STUB-UPS FOR FUTURE SOUND SYSTEM.
- 4 1" EMPTY CONDUIT WITH PULLWIRE FOR FUTURE FOUNTAIN PUMP POWER SUPPLY WIRING. EXTEND CONDUIT ABOVE FLOOR AND CAP OFF.
- 5 1" EMPTY CONDUIT STUB-UPS FOR FUTURE SOUND SYSTEM.
- 6 E.C. SHALL FURNISH AND INSTALL 4' X 8' X 3/4" FIRE RESISTANT PLYWOOD BACKBOARD FOR TELEPHONE SERVICE.
- 7 E.C. SHALL FURNISH AND INSTALL ALPHA LEF-5 MASTER AND ASSOCIATED POWER SUPPLY.
- 8 TERMINATE CONDUCTORS ON AVAILABLE SPARE CIRCUIT BREAKER IN PANEL LRPS. SEE PANEL SCHEDULE.
- 9 DEVICE SURFACE MOUNTED UNDER COUNTER IN KNEE SPACE. ROUTE CONDUITS UNDER SLAB AND STUB UP THROUGH FLOOR UNDER COUNTER.

(A) GROUND FLOOR POWER PLAN
 1/8"=1'-0"
 0 4' 8' 16' 32'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON 97331	51	43

FEDERAL AID PROJECT

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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

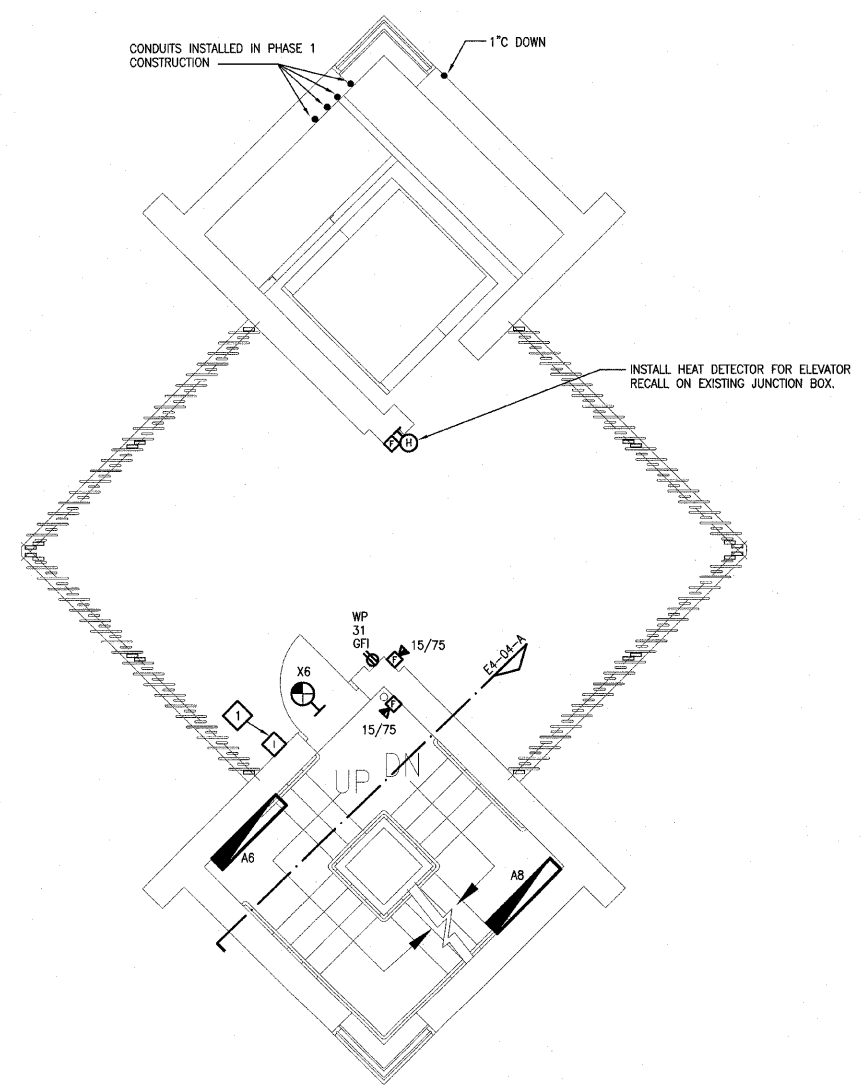
SHEET NO

E4-02

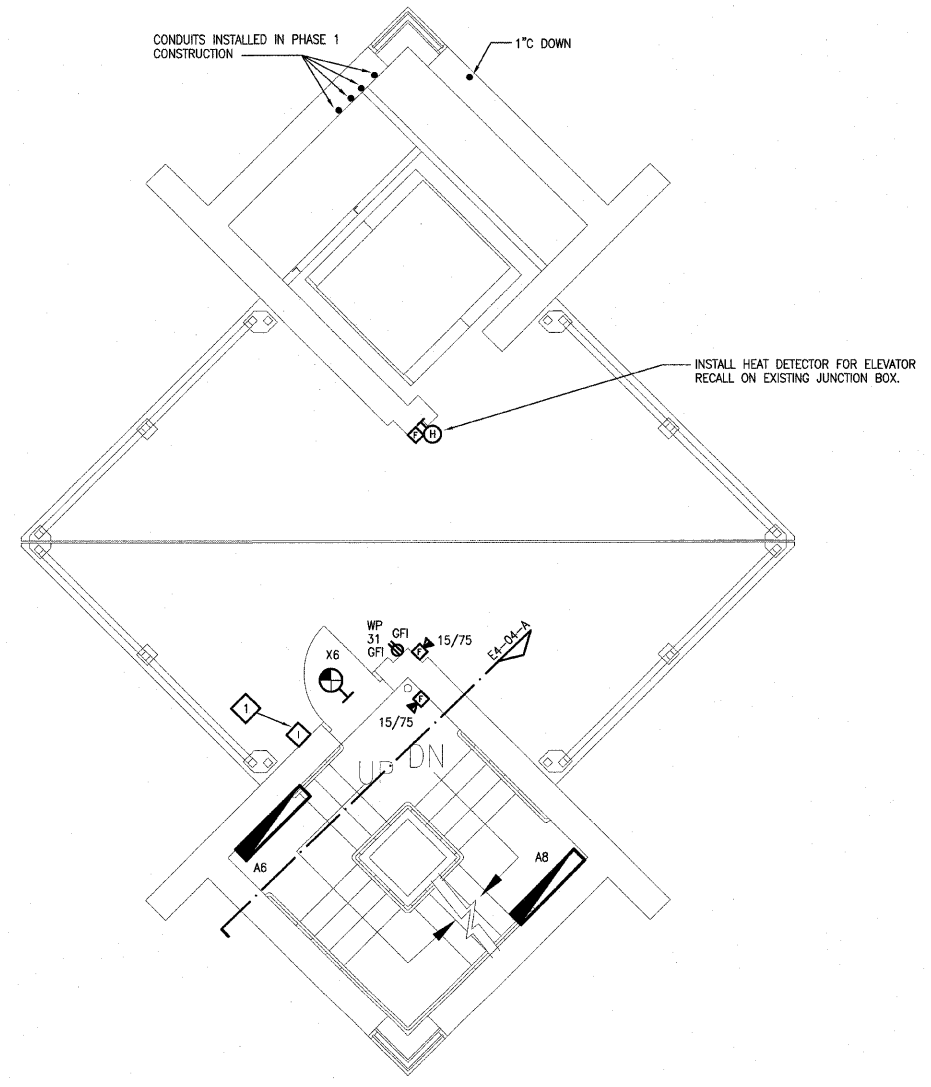
© 2005 KENNEDY ASSOCIATES INCORPORATED

KEYED NOTES

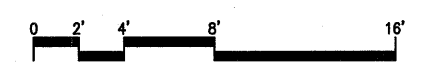
- 1 E.C. SHALL FURNISH AND INSTALL ALPHA LE-DA OUTDOOR WEATHERPROOF INTERCOM STATION WITHIN EXISTING ROUGH-IN INSTALLED DURING PHASE 1 CONSTRUCTION. PROVIDE A 4 CONDUCTOR 18 AWG STP CABLE WIRING HOMERUN FROM EACH STATION TO THE MASTER STATION IN THE GIFT SHOP. SEE SHEET E4-01 FOR LOCATION OF MASTER STATION.



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



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



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	44
	06-00026-01-MS	97331		

FEDERAL AID PROJECT

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
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SHEET TITLE:
LANDING ELECTRICAL PLANS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

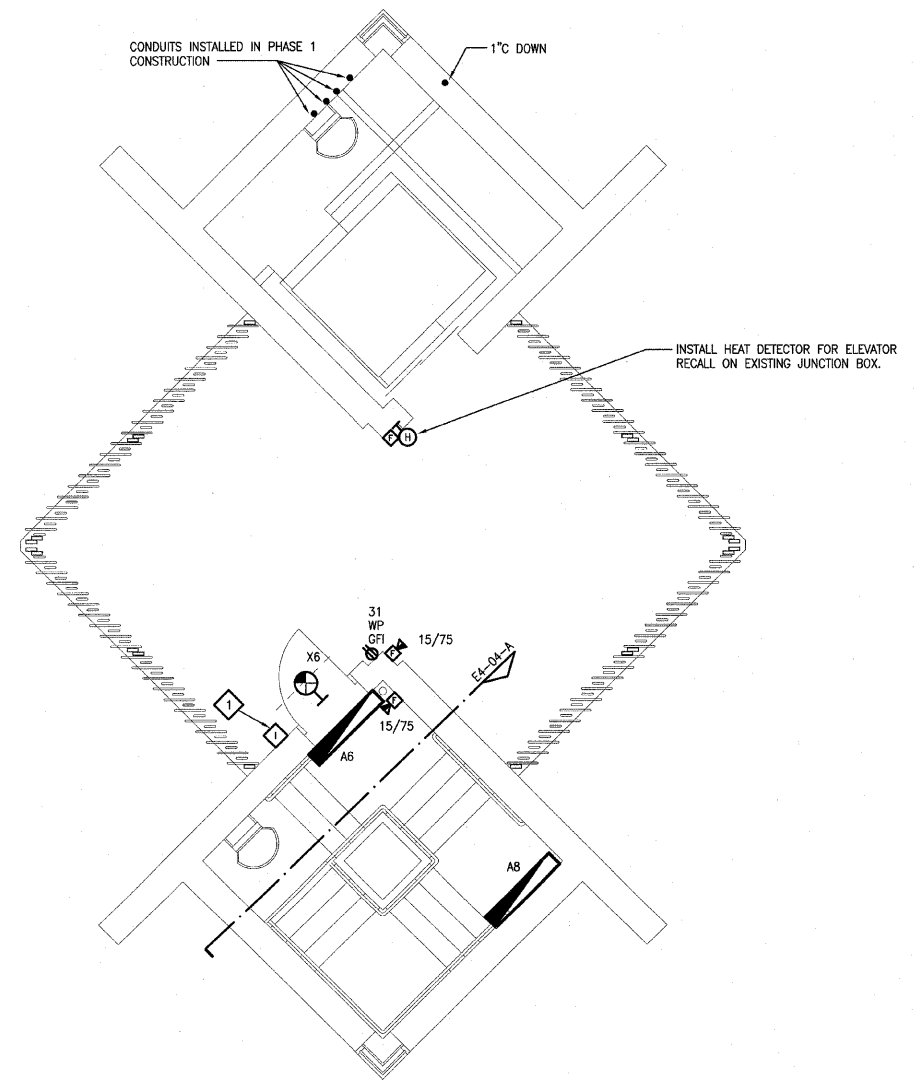
SHEET NO

E4-03

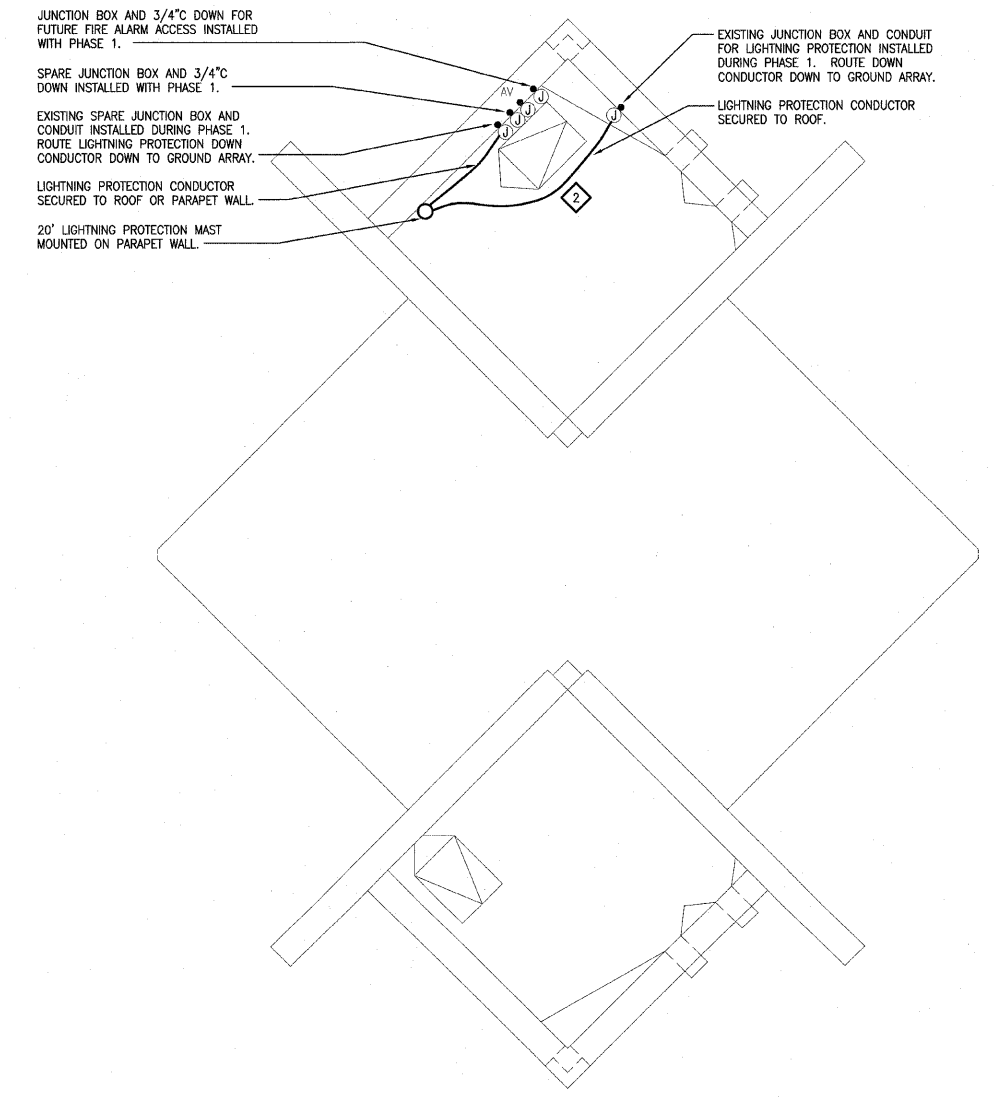
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KEYED NOTES

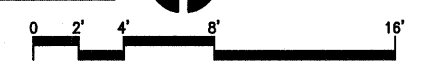
- 1 E.C. SHALL FURNISH AND INSTALL ALPHON LE-DA OUTDOOR WEATHERPROOF INTERCOM STATION WITHIN EXISTING ROUGH-IN INSTALLED DURING PHASE 1 CONSTRUCTION.
- 2 SEE DETAILS F AND G ON SHEET E6-01.



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

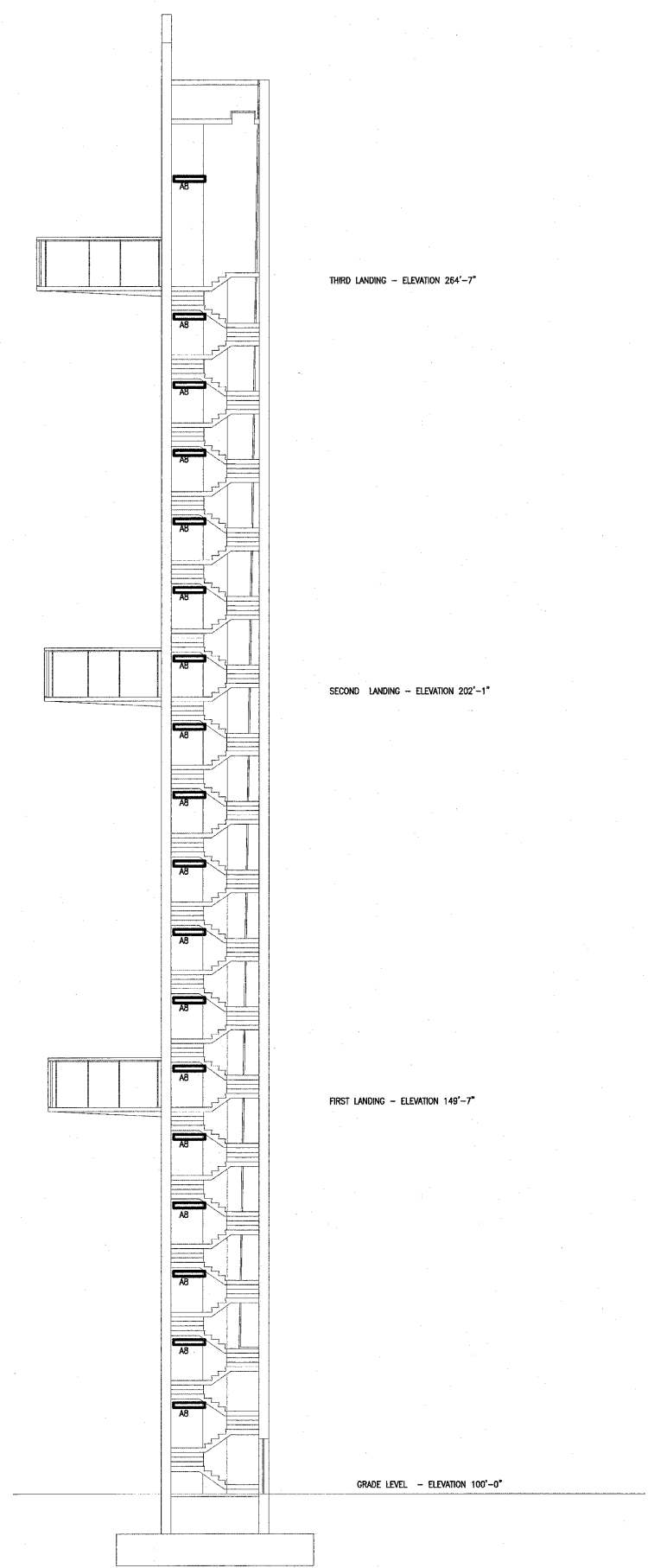


C **ROOF LANDING ELECTRICAL PLAN**
 1/4"=1'-0"

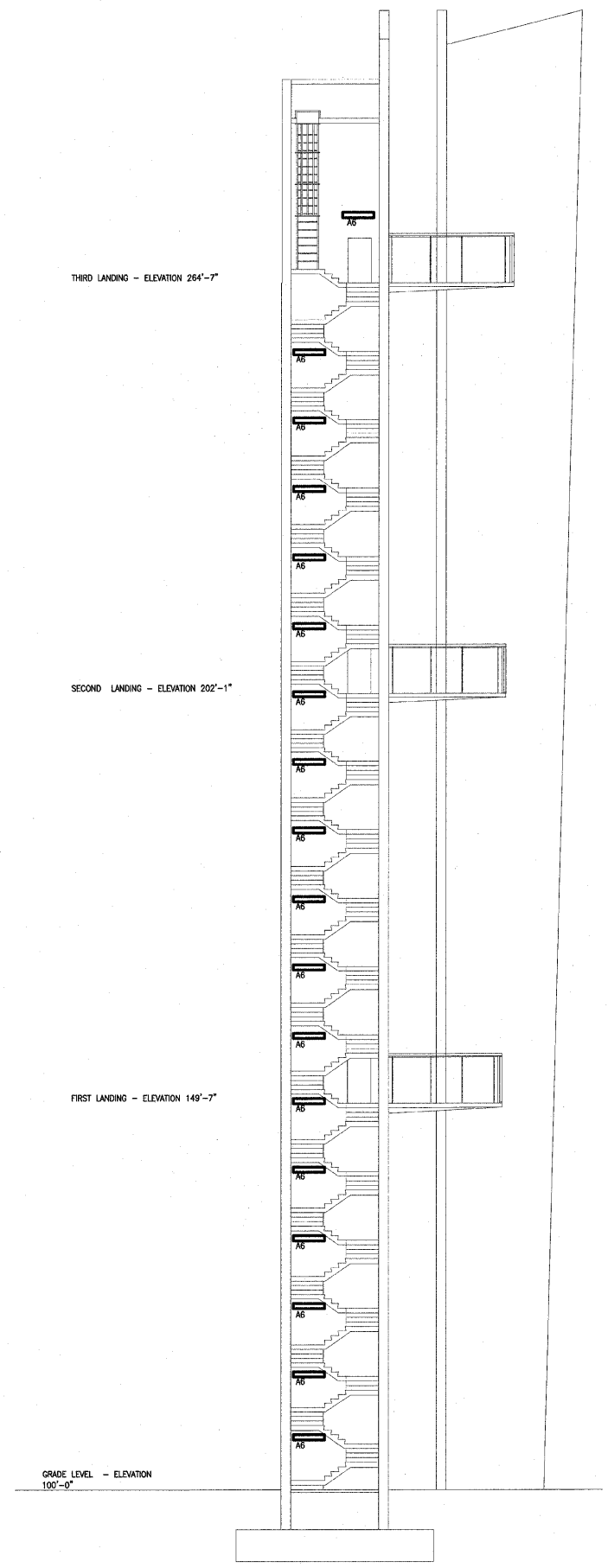


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON ꠆ꠗꠗꠗ	51	45

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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SHEET TITLE:
ELECTRICAL SECTIONS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

E4-04

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
HARTFORD, ILLINOIS 62049

SHEET TITLE
ONE LINE DIAGRAM

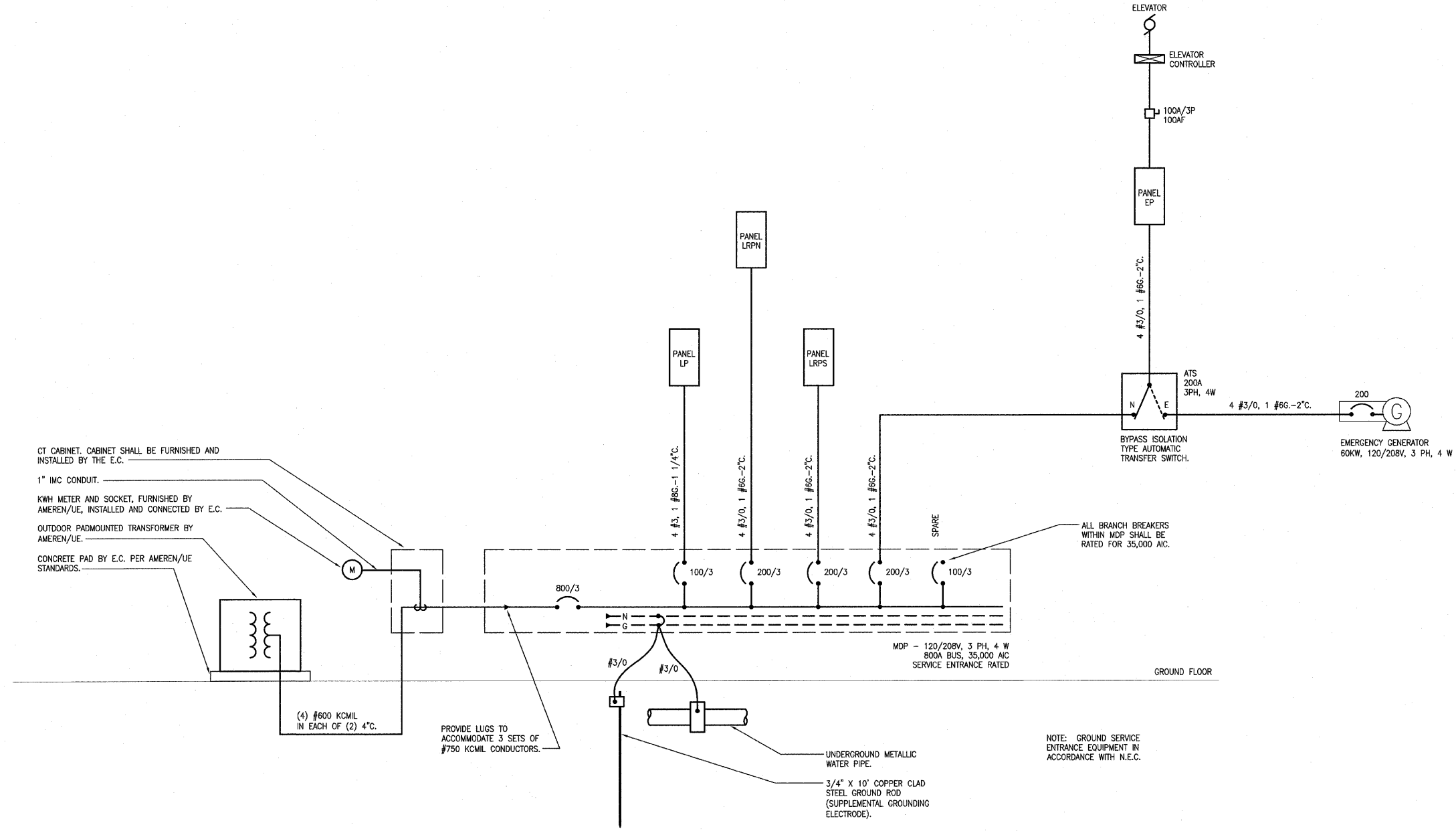
REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

E5-01



CT CABINET SHALL BE FURNISHED AND INSTALLED BY THE E.C.
1" IMC CONDUIT.
KWH METER AND SOCKET, FURNISHED BY AMEREN/UE, INSTALLED AND CONNECTED BY E.C.
OUTDOOR PADMOUNTED TRANSFORMER BY AMEREN/UE.
CONCRETE PAD BY E.C. PER AMEREN/UE STANDARDS.

(4) #600 KCML IN EACH OF (2) 4".
PROVIDE LUGS TO ACCOMMODATE 3 SETS OF #750 KCML CONDUCTORS.

MDP - 120/208V, 3 PH, 4 W
800A BUS, 35,000 AIC
SERVICE ENTRANCE RATED

UNDERGROUND METALLIC WATER PIPE.
3/4" X 10' COPPER CLAD STEEL GROUND ROD (SUPPLEMENTAL GROUNDING ELECTRODE).

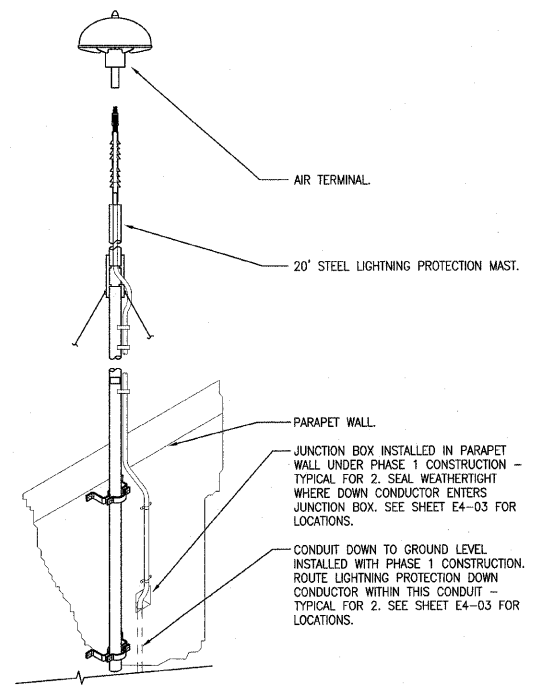
ALL BRANCH BREAKERS WITHIN MDP SHALL BE RATED FOR 35,000 AIC.

NOTE: GROUND SERVICE ENTRANCE EQUIPMENT IN ACCORDANCE WITH N.E.C.

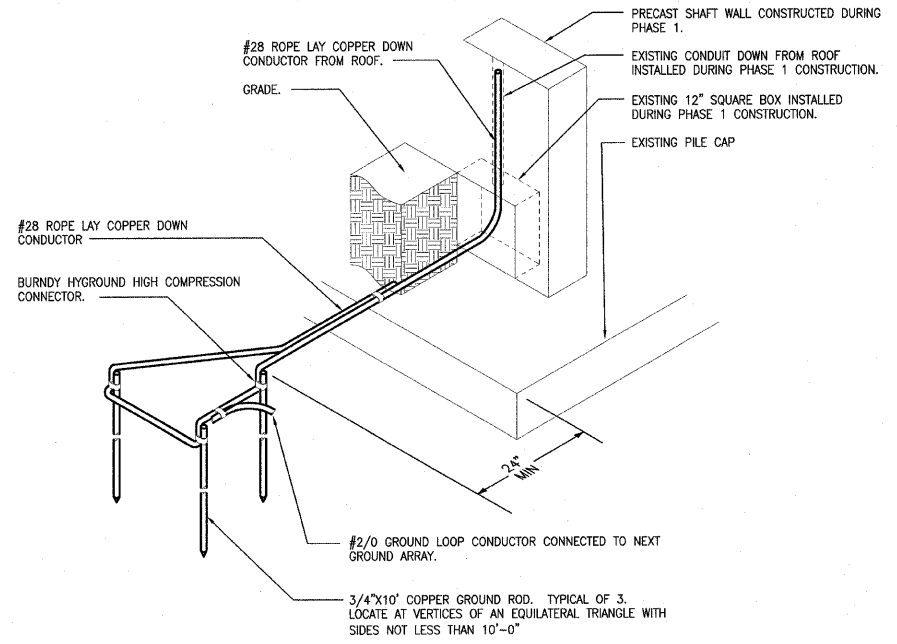
A ONE LINE DIAGRAM
NO SCALE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	47
	06-00026-01-MS	97331		

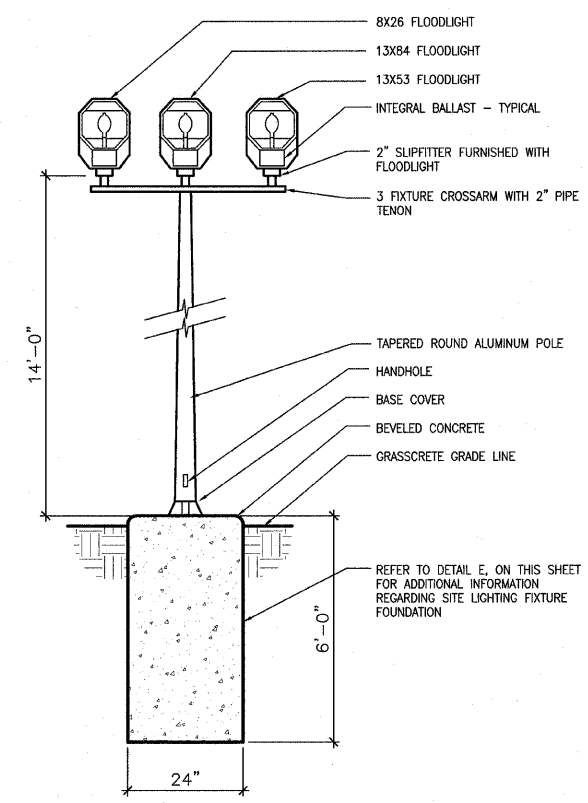
FEDERAL AID PROJECT
 QUAZITE PC0608BA06 OPEN BOTTOM BOX WITH #PC0608CG00 GASKETED COVER WITH (4) BOLTS. COVER LOGO TO READ "SOUND".
 CONCRETE PAVEMENT.
 TYPE FS BOX WITH NO COVER.
 CRUSHED STONE AGGREGATE.
 COMPACTED EARTH.
 1" PVC CONDUIT FOR FUTURE SOUND SYSTEM.



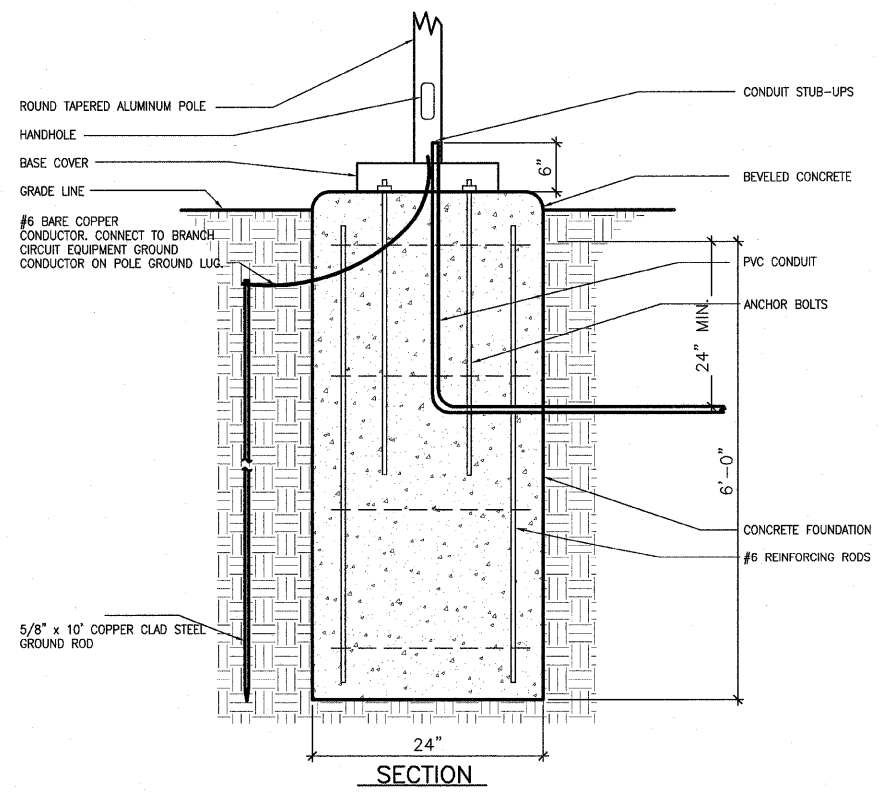
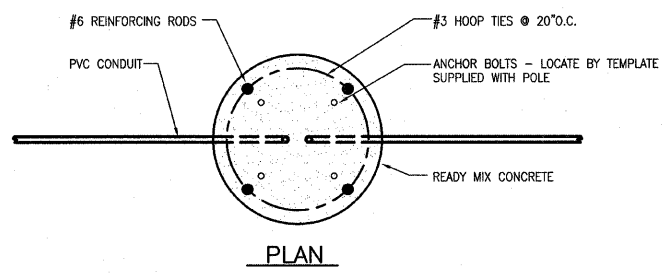
F LIGHTNING PROTECTION MOUNTING
 NO SCALE



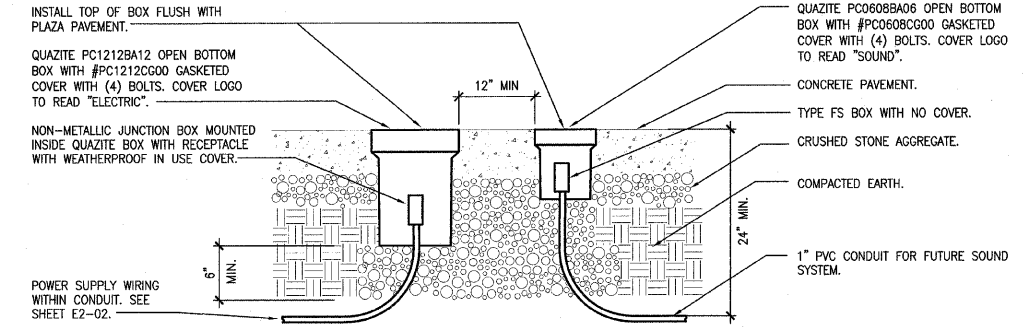
G LIGHTNING PROTECTION GROUND ARRAY
 NO SCALE



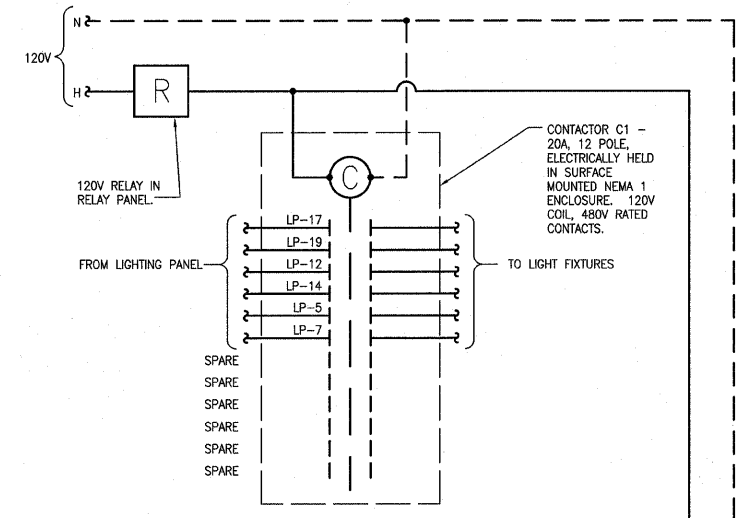
D FLOODLIGHTING FIXTURE "TYPE M"
 NO SCALE



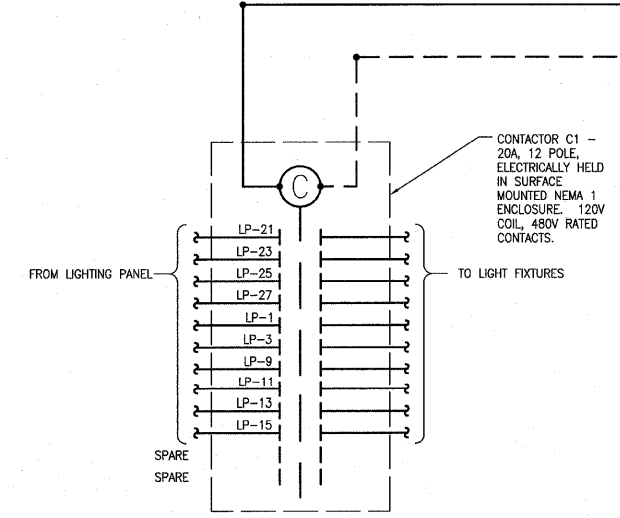
E SITE LIGHTING FIXTURE FOUNDATION DETAIL
 NO SCALE



A BOXES AT PLAZA
 NO SCALE



B CONTACTOR C1 DETAIL
 NO SCALE



C CONTACTOR C2 DETAIL
 NO SCALE

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 HARTFORD, ILLINOIS 62049

SHEET TITLE:
ELECTRICAL DETAILS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

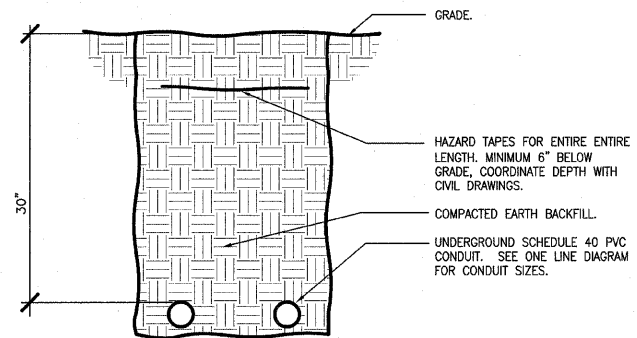
ISSUE DATE
12-JULY-05

SHEET NO

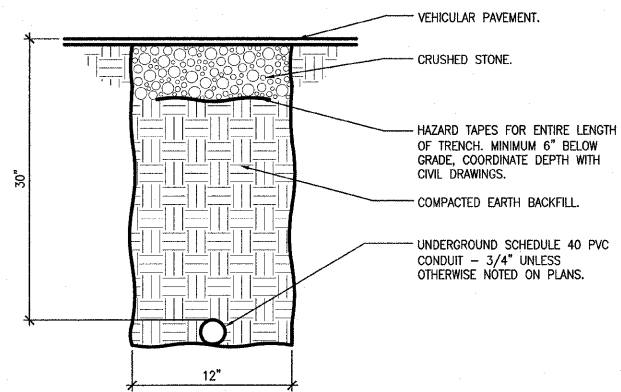
E6-01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	48
	06-00026-01-MS	97331		

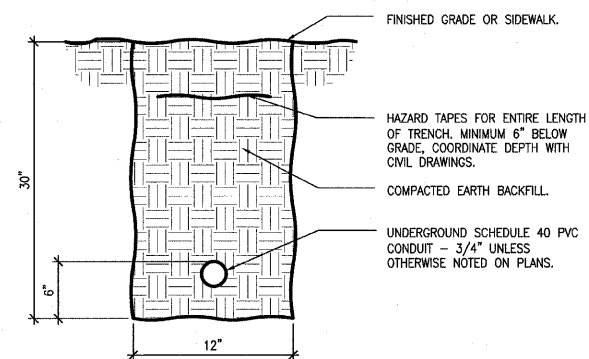
FEDERAL AID PROJECT



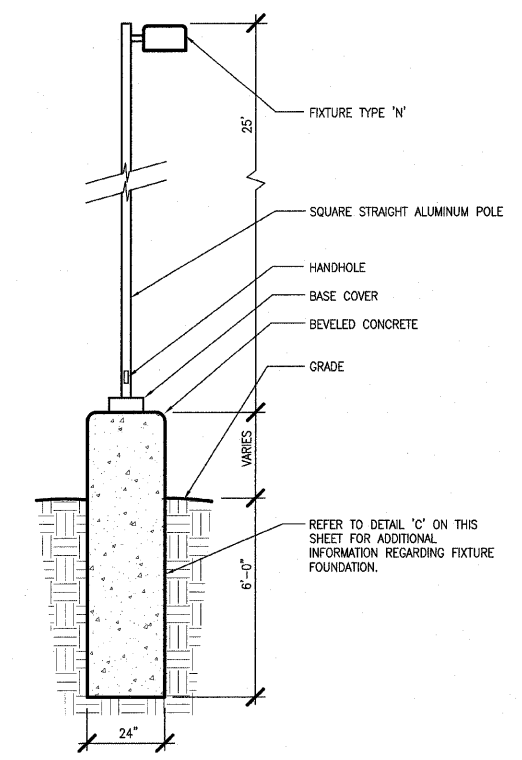
D SECONDARY SERVICE ENTRANCE DUCTBANK
NO SCALE



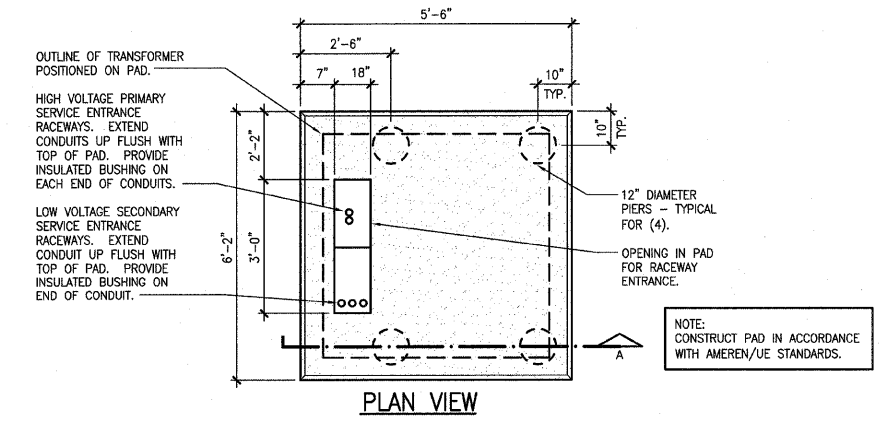
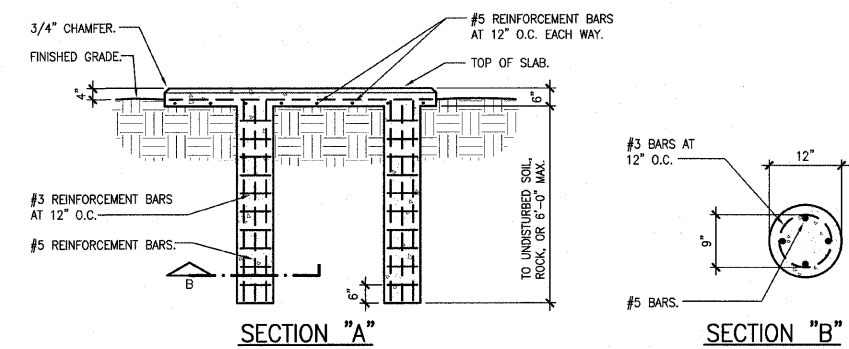
E CONDUIT TRENCH UNDER VEHICULAR PAVEMENT
NO SCALE



F CONDUIT TRENCH IN GRASS OR UNDER SIDEWALK
NO SCALE



A SITE LIGHTING FIXTURE DETAIL "TYPE N"
NO SCALE



B TRANSFORMER PAD DETAIL
NO SCALE

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SHEET TITLE:
ELECTRICAL DETAILS

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI 10-02048

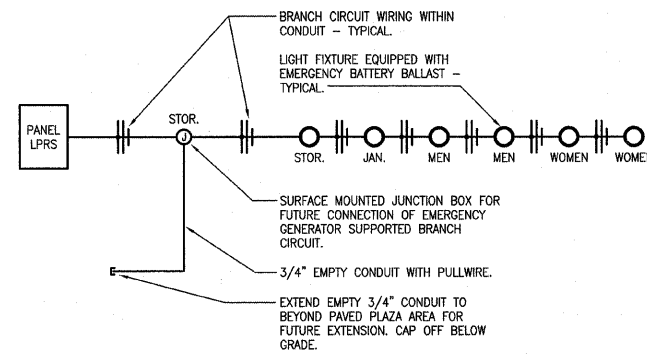
ISSUE DATE
12-JULY-05

SHEET NO

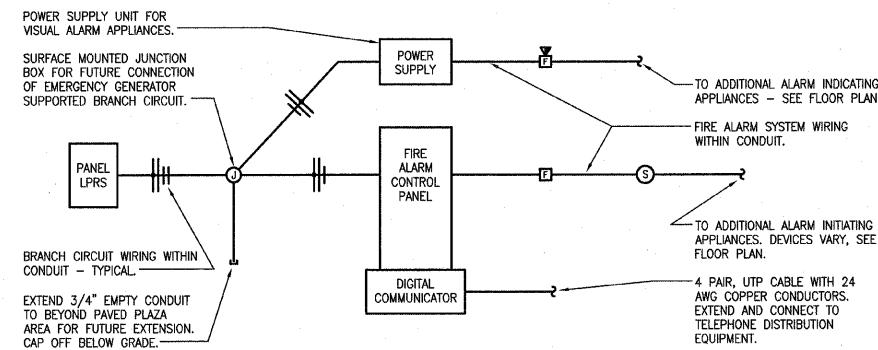
E6-02

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK 06-00026-01-MS	MADISON 97331	51	49

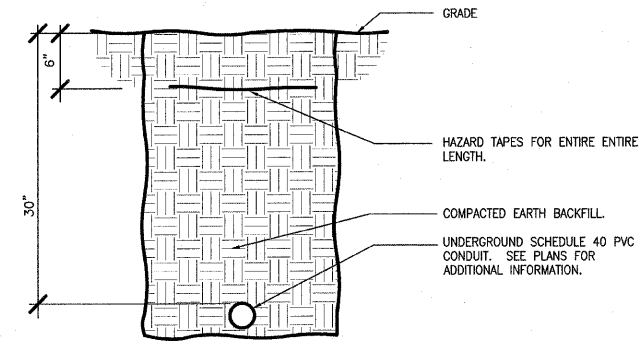
FEDERAL AID PROJECT



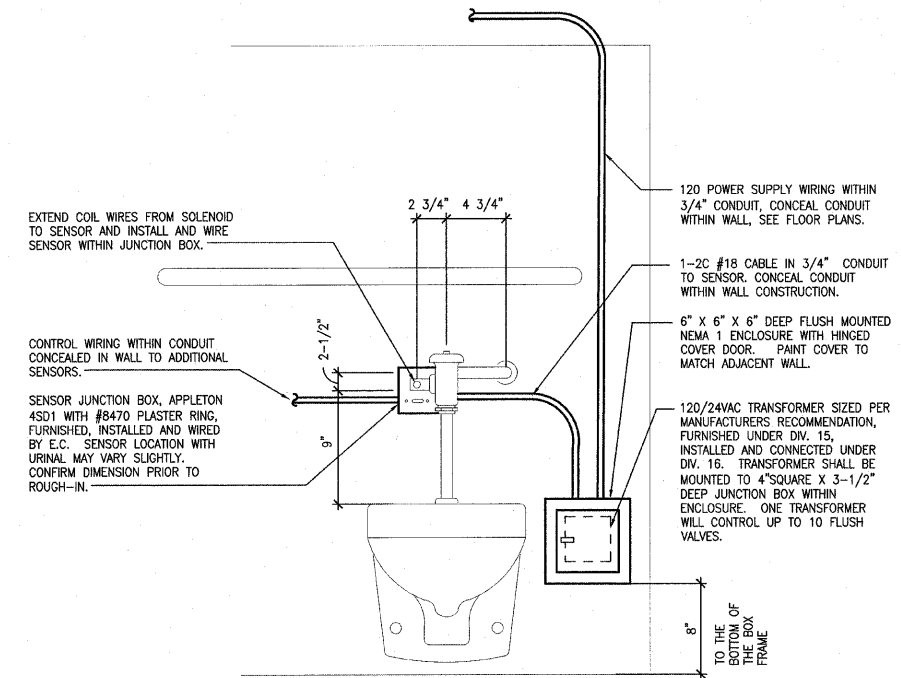
D LIFE SAFETY LIGHTING
NO SCALE



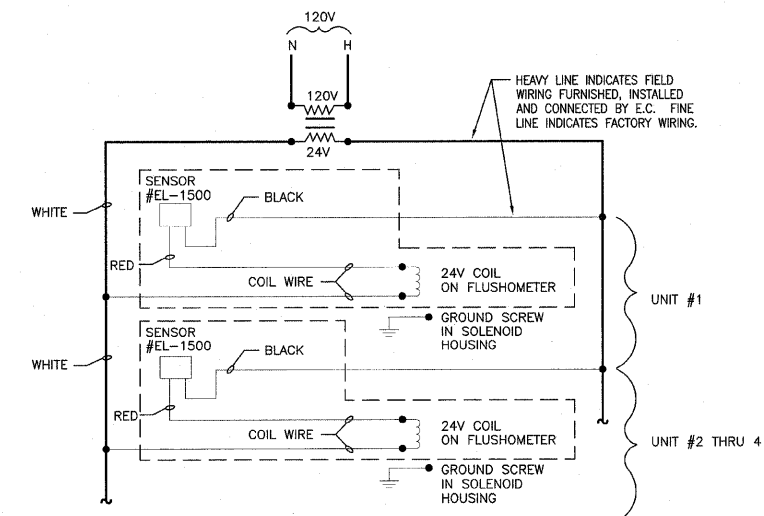
E FIRE ALARM SYSTEM SCHEMATIC
NO SCALE



A TELEPHONE SERVICE ENTRANCE
NO SCALE



B FLUSH VALVE DETAIL FOR WATER CLOSETS AND URINALS
NO SCALE



C FLUSH VALVE WIRING DIAGRAM
NO SCALE

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SHEET TITLE:
ELECTRICAL DETAILS

REV. NO.	DATE	REMARKS

KENNEDY PROJECT NO
KAI 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

E6-03

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LEWIS AND CLARK MEMORIAL TOWER
VILLAGE OF HARTFORD, ILLINOIS
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SHEET TITLE:
LIGHTING FIXTURE SCHEDULE

REV. NO.	REMARKS	DATE

KENNEDY PROJECT NO
KAI# 10-02048

ISSUE DATE
12-JULY-05

SHEET NO

E7-01

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-8	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.

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) F32T8/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
AE	120	4'x1' FLUORESCENT VANDAL RESISTANT WITH EMERGENCY BATTERY BALLAST	SURFACE - CEILING / WALL ON EXISTING ROUGH-IN IN STAIR TOWER - SEE ELEVATIONS FOR ADDITIONAL INFORMATION	(2) F32T8/TL835 PLUS/ALTO	.156 CLEAR PRISMATIC ACRYLIC LENS	16 GUAGE STEEL HOUSING, ELECTRONIC 0° START COLD WEATHER BALLAST, WHITE POWER COAT FINISH, BODINE B50 EMERGENCY BATTERY BALLAST	FAILSAFE FWS-232-120-EB81-B50 LITHONIA DAYBRITE COLUMBIA
B	120	FLUORESCENT WALL SCNCE	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/ECO	.156 CLEAR PRISMATIC ACRYLIC LENS	16 GUAGE STEEL HOUSING, ELECTRONIC 0° START COLD WEATHER BALLAST, WHITE POWER COAT FINISH	FAILSAFE FWW-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-0T-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-S-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-S-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 (FOR 2XCFT7W/G23 FLUORESCENT) LITHONIA WPCW-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" SLIPPIFFTER MOUNTING FOR FLOODLIGHT, FOUR SIDE SHIELD, BLACK FINISH	STERNER 595-SF-4S-924-H-208-E STERNER 595-SF-4S-1250-H-208-E STERNER 595-SF-4S-1270-H-208-E HAPCO 51-007 POLE AND 63-006 ARM
N	208	HID SITE LIGHTING LUMINAIRE	POLE MOUNTED SEE DETAIL A SHEET E6-02, AND DETAIL E SHEET E6-01	(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

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00026-00-PK	MADISON	51	51
	06-00026-01-MS	97331		

FEDERAL AID PROJECT

PANELBOARD - LP		VOLTAGE 208 / 120		AMP BUS		SPECIAL FEATURES	
MOUNTING - SURFACE		PHASE 3		AMP MCB			
A.I.C. RATING - 22,000		WIRE 4		AMP MLO		100	
LOAD DESCRIPTION	LOAD (VA)	BREAKER	CIRCUIT	3 PH. CIRCUIT	BREAKER	LOAD (VA)	LOAD DESCRIPTION
NW FLOODLIGHT	1650	20	1	1	20	1650	EXTERIOR ENTRY LIGHTING
SW FLOODLIGHT	1650	20	2	2	20	1650	EXTERIOR ENTRY LIGHTING
SE FLOODLIGHT	1650	20	3	3	20	1650	PLAZA LIGHTING SOUTH
NE FLOODLIGHT	1650	20	4	4	20	1650	PLAZA LIGHTING NORTH
PARKING LOT LIGHTING NORTH	1500	20	5	5	20	1500	FOUNTAIN LIGHTING
PARKING LOT LIGHTING SOUTH	750	20	6	6	20	750	PARKING LOT LIGHTING NORTH
PARKING LOT LIGHTING SOUTH	750	20	7	7	20	750	SPARE
SPARE		20	8	8	20		SPARE
SPARE		20	9	9	20		SPARE
SPARE		20	10	10	20		SPARE
SPARE		20	11	11	20		SPARE
SPARE		20	12	12	20		SPARE
SPARE		20	13	13	20		SPARE
SPARE		20	14	14	20		SPARE
SPARE		20	15	15	20		SPARE
SPARE		20	16	16	20		SPARE
SPARE		20	17	17	20		SPARE
SPARE		20	18	18	20		SPARE
SPARE		20	19	19	20		SPARE
SPARE		20	20	20	20		SPARE
SPARE		20	21	21	20		SPARE
SPARE		20	22	22	20		SPARE
SPARE		20	23	23	20		SPARE
SPARE		20	24	24	20		SPARE
SPARE		20	25	25	20		SPARE
SPARE		20	26	26	20		SPARE
SPARE		20	27	27	20		SPARE
SPARE		20	28	28	20		SPARE
SPARE		20	29	29	20		SPARE
SPARE		20	30	30	20		SPARE
SPARE		20	31	31	20		SPARE
SPARE		20	32	32	20		SPARE
SPARE		20	33	33	20		SPARE
SPARE		20	34	34	20		SPARE
SPARE		20	35	35	20		SPARE
SPARE		20	36	36	20		SPARE
SPARE		20	37	37	20		SPARE
SPARE		20	38	38	20		SPARE
SPARE		20	39	39	20		SPARE
SPARE		20	40	40	20		SPARE
SPARE		20	41	41	20		SPARE
SPARE		20	42	42	20		SPARE

PANELBOARD - EP		VOLTAGE 208 / 120		AMP BUS		SPECIAL FEATURES	
MOUNTING - SURFACE		PHASE 3		AMP MCB			
A.I.C. RATING - 22,000		WIRE 4		AMP MLO		200	
LOAD DESCRIPTION	LOAD (VA)	BREAKER	CIRCUIT	3 PH. CIRCUIT	BREAKER	LOAD (VA)	LOAD DESCRIPTION
ELEVATOR	9384	100	1	1	200	1200	FIRE ALARM CONTROL PANEL
ELEVATOR REMOTE MONITOR	1800	15	1	1	200	1200	GROUND FLOOR LIGHTING - N
ELEVATOR CAB LIGHTING	500	15	2	2	200	200	STAR TOWER LIGHTING
ELEVATOR FIT & RECEPTACLE	250	20	3	3	200	750	INTERCOM POWER SUPPLY
ELEVATOR SLUMP PUMP	200	20	4	4	200	200	AV APPLIANCE POWER SUPPLY
ELEVATOR MACHINE ROOM	200	20	5	5	200	200	GROUND FLOOR LIGHTING - S
GEN BATT CHARGER	1000	20	6	6	200	200	SPARE
GEN JACKET HEATER	1000	20	7	7	200	200	SPARE
SPARE		20	8	8	200	200	SPARE
SPARE		20	9	9	200	200	SPARE
SPARE		20	10	10	200	200	SPARE
SPARE		20	11	11	200	200	SPARE
SPARE		20	12	12	200	200	SPARE
SPARE		20	13	13	200	200	SPARE
SPARE		20	14	14	200	200	SPARE
SPARE		20	15	15	200	200	SPARE
SPARE		20	16	16	200	200	SPARE
SPARE		20	17	17	200	200	SPARE
SPARE		20	18	18	200	200	SPARE
SPARE		20	19	19	200	200	SPARE
SPARE		20	20	20	200	200	SPARE
SPARE		20	21	21	200	200	SPARE
SPARE		20	22	22	200	200	SPARE
SPARE		20	23	23	200	200	SPARE
SPARE		20	24	24	200	200	SPARE
SPARE		20	25	25	200	200	SPARE
SPARE		20	26	26	200	200	SPARE
SPARE		20	27	27	200	200	SPARE
SPARE		20	28	28	200	200	SPARE
SPARE		20	29	29	200	200	SPARE
SPARE		20	30	30	200	200	SPARE
SPARE		20	31	31	200	200	SPARE
SPARE		20	32	32	200	200	SPARE
SPARE		20	33	33	200	200	SPARE
SPARE		20	34	34	200	200	SPARE
SPARE		20	35	35	200	200	SPARE
SPARE		20	36	36	200	200	SPARE
SPARE		20	37	37	200	200	SPARE
SPARE		20	38	38	200	200	SPARE
SPARE		20	39	39	200	200	SPARE
SPARE		20	40	40	200	200	SPARE
SPARE		20	41	41	200	200	SPARE
SPARE		20	42	42	200	200	SPARE

PANELBOARD - LRRS		VOLTAGE 208 / 120		AMP BUS		SPECIAL FEATURES	
MOUNTING - SURFACE		PHASE 3		AMP MCB			
A.I.C. RATING - 22,000		WIRE 4		AMP MLO		200	
LOAD DESCRIPTION	LOAD (VA)	BREAKER	CIRCUIT	3 PH. CIRCUIT	BREAKER	LOAD (VA)	LOAD DESCRIPTION
LIGHTING	770	20	1	1	20	900	RECEPTACLES
CABINET UNIT HEATER CUH-2	2000	25	2	2	20	1100	EF-2 AND DAMPER
CABINET UNIT HEATER CUH-1	2000	25	3	3	20	1100	SPARE
FOUNTAIN PUMPS FP-1 & FP-2	3276	40	4	4	20	2300	UNIT HEATER UH-2
MOTORIZED DAMPER	800	20	5	5	20	2300	HAND DRYER
RECEPTACLES	800	20	6	6	20	2300	HAND DRYER
SPARE		20	7	7	20	3333	MOTORIZED DAMPERS
SPARE		20	8	8	20	3333	RECEPTACLES
SPARE		20	9	9	20	3333	HAND DRYER
PLATFORM RECEPTACLES	600	20	10	10	20	1000	HAND DRYER
LIFE SAFETY LIGHTING	380	20	11	11	20	200	RECEPTACLE - FOOD WARMING
FIRE ALARM CONTROL PANEL	1000	20	12	12	20	3000	RECEPTACLE AT PODIUM
AV APPLIANCE PWR SUPPLY	1000	20	13	13	20	3000	WATER HEATER WH-1
SPARE		20	14	14	20	3000	
FOUNTAIN CONTROL PANEL	500	20	15	15	20		
SPARE		20	16	16	20		
SPARE		20	17	17	20		
SPARE		20	18	18	20		
SPARE		20	19	19	20		
SPARE		20	20	20	20		
SPARE		20	21	21	20		
SPARE		20	22	22	20		
SPARE		20	23	23	20		
SPARE		20	24	24	20		
SPARE		20	25	25	20		
SPARE		20	26	26	20		
SPARE		20	27	27	20		
SPARE		20	28	28	20		
SPARE		20	29	29	20		
SPARE		20	30	30	20		
SPARE		20	31	31	20		
SPARE		20	32	32	20		
SPARE		20	33	33	20		
SPARE		20	34	34	20		
SPARE		20	35	35	20		
SPARE		20	36	36	20		
SPARE		20	37	37	20		
SPARE		20	38	38	20		
SPARE		20	39	39	20		
SPARE		20	40	40	20		
SPARE		20	41	41	20		
SPARE		20	42	42	20		

PANELBOARD - LRPH		VOLTAGE 208 / 120		AMP BUS		SPECIAL FEATURES	
MOUNTING - SURFACE		PHASE 3		AMP MCB			
A.I.C. RATING - 22,000		WIRE 4		AMP MLO		200	
LOAD DESCRIPTION	LOAD (VA)	BREAKER	CIRCUIT	3 PH. CIRCUIT	BREAKER	LOAD (VA)	LOAD DESCRIPTION
EF-1 AND DAMPER	1100	20	1	1	20	500	LIGHTING
UNIT HEATER UH-4	1100	20	2	2	20	800	RECEPTACLES
UNIT HEATER UH-3	1100	20	3	3	20	1500	RECEPTACLES
CONDENSING UNIT CU-2	1100	20	4	4	20	1500	VENDING MACHINE
RECEPTACLES	1100	20	5	5	20	1500	VENDING MACHINE
PHONE RECEPTACLE	400	20	6	6	20	1500	VENDING MACHINE
RECEPTACLE - FOOD WARMING	1000	20	7	7	20	1500	VENDING MACHINE
AIR CONDITIONER AC-1		2	8	8	20		
WH-2	3000	30	9	9	80		AIR HANDLING UNIT AHU-1 (HEAT)
SLUMP PUMP	200	20	10	10	20	1272	
SPARE		20	11	11	20	1272	
SPARE		20	12	12	20	1272	
SPARE		20	13	13	20	1272	
SPARE		20	14	14	20	1272	
SPARE		20	15	15	20	1272	
SPARE		20	16	16	20	1272	
SPARE		20	17	17	20	1272	
SPARE		20	18	18	20	1272	
SPARE		20	19	19	20	1272	
SPARE		20	20	20	20	1272	
SPARE		20	21	21	20	1272	
SPARE		20	22	22	20	1272	
SPARE		20	23	23	20	1272	
SPARE		20	24	24	20	1272	
SPARE		20	25	25	20	1272	
SPARE		20	26	26	20	1272	
SPARE		20	27	27	20	1272	
SPARE		20	28	28	20	1272	
SPARE		20	29	29	20	1272	
SPARE		20	30	30	20	1272	
SPARE		20	31	31	20	127	