STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

TRAFFIC DATA

EAST AVENUE = 600 (2030) PINE AVENUE = 600 (2030)

SPEED LIMIT:

EAST & PINE AVENUE = 20 MPH (POSTED) 30 MPH (DESIGN)

EAST AVENUE & PINE AVENUE FROM

FOREST AVE. (F.A.U. 1472) TO LONGCOMMON RD. (F.A.U. 3569)

SECTION: 06-00073-00-LS

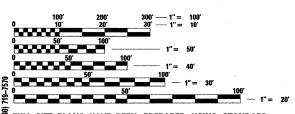
ROADWAY RESURFACING AND ENHANCEMENT

PROJECT: TE-00D1(705)

VILLAGE OF RIVERSIDE **COOK COUNTY**

C-91-030-07



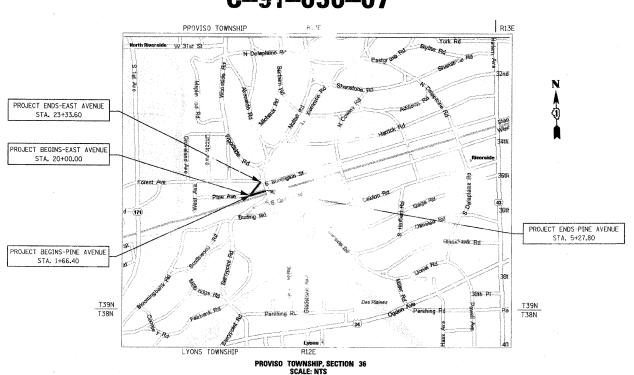


ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS. THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

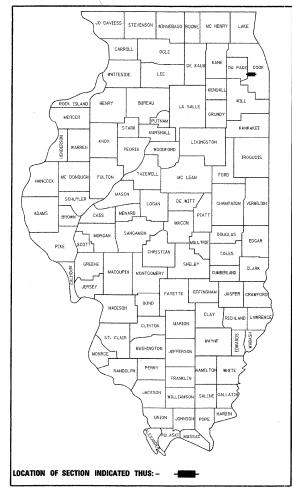
CONTRACT NO. 63133

DESIGN DESIGNATION: LOCAL ROAD



GROSS & NET LENGTH OF PROJECT: 695.00 FT. (0.13 MILES)

F.A.U. SECTION RTE. SECTION 1472 & 06-00073-00-LS COLINTY СООК FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS
3-24-09 Kathurtlush Village of Riverside, Village Manager
Aprel 06, 2009 HCA CHRUSTONE FOUT District #1 Engineer of Local Roads & Streets
APRIL 06, Z009 Diana M. O'Keeft of Deputy Director Of Highways, Region #1 Engineer

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COUNTY: COOK SECTION: 06-00073-00-LS F.A.U. ROUTE: 1472 & 3569

	INDEX OF DRAWINGS		LIST OF STATE STANDARDS
1	TITLE SHEET	000001-05	STANDARD SYMBOLS, ABEREVIATIONS AND PATTERNS
2	INDEX OF SHEETS, LIST OF STATE STANDARDS AND GENERAL NOTES	424001-05	CURB RAMPS FOR SIDEWALKS
3	SUMMARY OF QUANTITIES	442201-03	CLASS C AND D PATCHES
4	EXISTING TYPICAL SECTIONS	604001-03	FRAME AND LIDS TYPE 1
5	PROPOSED TYPICAL SECTIONS	606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
6	SCHEDULE OF QUANTITIES	701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
7	ALIGNMENT AND BENCH MARKS	701501-05	URBAN LANE CLOSURE 2L, 2W UNDIVIDED
8	SITE PREPARATION PLAN	701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
9	GEOMETRIC PLAN		
10	UTILITY AND GRADING PLAN	701901-01	TRAFFIC CONTROL DEVICES
11	PAVEMENT MARKINGS & SIGNAGE PLAN	720001-01	SIGN PANEL MOUNTING DETAILS
12	CONSTRUCTION DETAILS	720006-02	SIGN PANEL ERECTION DETAILS
3-16	DISTRICT DETAILS	720011-01	METAL POST FOR SIGNS, MARKINGS, AND DELINEATORS
17	WATER TOWER CAMPUS CROSS SECTIONS	814001-02	HANDHOLES
18	LANDSCAPE SITE PLAN		
19	LANDSCAPE PLANTER DETAILS		LIST OF DISTRICT ONE DETAILS
20	LANDSCAPE DETAILS	BD-32	BUTT JOINT AND HMA TAPER DETAILS
21	ARCHITECTURAL LIGHTING LAYOUT	TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
22	ARCHITECTURAL RAMP DRAWINGS	TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS

MWRD NOTES

COMMITMENTS: NONE

THE MWRD LOCAL SEWER PERMIT SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK (CALL 708-588-4055.)

ELECTRICAL POWER AND LIGHTING PLANS

ELECTRICAL NOTES, RISER AND SCHEDULES

2. ELEVATION DATUM IS U.S.G.S.

24

3. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.

- 4. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM
- 5. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO:

Pipe Material Spec.	Joint Spec.	Pipe Material Spec.	Joint Spec,
Vitrified Clay Pipe		PVC Gravity Sewer Pipe	
VCP C-700	C-425	6"-15" dia. SDR 26	
VCP (No-Bell) C-700		D-3034	D-3212 or
Joint	C-425		D-2855
Collar	D-1784		
	1.7.2	18"-27" dia. F/dy=46	
Concrete Pipe C-14	C-443	F-679	D-3212 or
RCP C-76	C-443		D-2855
ACP C-428	D-1869		
ABS Sewer Pipe		CISP A-74	C-564
Solid Wall 6" dia, SDR 23.5		DIP A-21.51	A-21.11
ABS D-2751	D-2751		
765 b 2701			
ABS Composite/Truss Pipe			
8"-15" dia.			,
ABS D-2680	D-2680		

6. ALL SANITARY SEWER CONSTRUCTION, (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES.

MATERIAL SHALL BE CA-11 OF CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

- 7. "BAND—SEAL" OR SIMILAR FLEXIBLE—TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR MATERIALS.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHHOLE, ONE OF THE FOLLOWING METHODS, SHALL BE USED:
 - CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER—TAF" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB—WYE SADDLE OR HUB—TST SADDLE.
 - 2. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 - 3. WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSTACTION OF PROPER FITTING, USING A "BAND-SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- WHENEVER A SANITARY/COMBINED SETTER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE ± 8 INCHES. FURTHERMORE, A MINIMUM OF THE WATERMAIN SHALL BE 6 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAN-TO UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION: OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18 INCH VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CAN NOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATERMAIN STANDAPPS
- 10. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED
- 11. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

COUNTY SECTION 472806-00073-00-LS COOK 24 TO STA FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 63133

GENERAL NOTES

- 1. ACCESS TO LOCAL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED DURING
- 2. THE CONTRACTOR SHALL GIVE THE MUNICIPALITY THREE (3) WORKING DAYS NOTICE PRIOR TO THE COMMENCEMENT OF WORK. (JAMES J. BENES AND ASSOCIATES, INC: (630) 719-7570)
- 3. ALL ELEVATIONS ARE ON U.S.G.S. DATUM.
- 4. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 5. NEITHER THE ENGINEER, NOR THE OWNER, SHALL ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTOR'S SUPERINTENDENT OR OF SUBCONTRACTORS. ADDITIONALLY, NEITHER THE ENGINEER, NOR THE OWNER, SHALL ADVISE ON, OR ISSUE DIRECTIONS CONCERNING, ASPECTS OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND/OR PROGRAMS IN CONNECTION WITH THE WORK.
- 6. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL REPORT ANY ENCOUNTERED DISCREPANCIES TO THE ENGINEER AT ONCE. THE CONTRACTOR SHALL TAKE DUE CARE IN ALL PHASES OF CONSTRUCTION TO PROTECT ANY UTILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGES TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE MADE BY THE CONTRACTOR TO THE IRRIGATION SYSTEMS AND IT SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. THE CONTRACTOR WILL DETERMINE THE LOCATIONS OF AMAGE AND EXTENT OF DAMAGE. ALL LOCATIONS OF REPAIR WORK AND EXTENT OF REPAIR SHALL BE APPROVED BY THE ENGINEER PRIOR TO PERFORMING THE WORK.
 THE SPRINKLER LINES SHALL BE PRESSURE TESTED. ANY PRESSURE LEAKS SHALL
 BE IDENTIFIED AND REPAIRS MADE PRIOR TO RETESTING THE SYSTEM FOR
 APPROVAL. ALL MATERIAL, LABOR AND EQUIPMENT USED TO LOCATE, REPAIR AND TEST THE DAMAGED IRRIGATION SYSTEMS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- 8. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA FREE OF DEBRIS AND/OR OBJECTIONABLE MATERIALS DURING CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE SITE DAILY FOR DEBRIS ON THE ROADWAY SURFACE. THE RIGHT-OF-WAY SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
- 9. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES DURING CONSTRUCTION AND SHALL REPAIR ANY DRAINAGE FACILITIES DAMAGED DURING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.
- 10. THE RELOCATION OF SIGNS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE
- 11. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, SEWERS AND WATER UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
- 12. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ALL
- 13. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS FOR EACH TYPE I OR TYPE II BARRICADE USED, ONE WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
- 14. SAW CUTTING OF PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM
- 15. STATIONING FOR ALL DRAINAGE STRUCTURES ARE GIVEN TO THE CENTER OF THE DRAINAGE STRUCTURE. OFFSETS FOR CURB LINE INLETS AND CATCH BASINS ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS FOR ALL OTHER DRAINAGE STRUCTURES ARE GIVEN TO THE CENTER OF THE STRUCTURE. THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT ALL CURB LINE DRAINAGE STRUCTURES ARE PROPERFLY ALIGNED WITH THE PROPOSED CURB AND GUTTER
- 16. ALL STRUCTURE (MANHOLE, CATCH BASIN AND INLET) CONNECTIONS SHALL MEET THE REQUIREMENTS FOR FOR FLEXIBLE WATER TIGHT CONNECTIONS PER ASTM C923.
- 17. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1 2007: THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2009: THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (IMUTCD). "FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY 1996 FIFTH EDITION, THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

REVISIONS

REVISIONS		ILLINOIS DEPARTME	NT OF TRANSPORTATION
NAME	DATE		S 1472 & 3569
		VILLAGE	OF RIVERSIDE
		RAILWAY/WATER TOWER (CAMPUS RESTORATION PROJECT
		INDEX O	F DRAWINGS,
			NOTES AND
		IDOT STAND	ARD DRAWINGS
		SCALE: NTS	DRAWN BY SMP

DRAWN BY SMP DATE: 12/5/08 CHECKED BY BDH

******	F.A.U. RTE.	SECTION		COUNTY			TOTA	AL TS	SHEE NO.
	472& 3569	06000730	0-LS		cool	ĸ	24	4	3
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	FED. RO	DAD DIST. NO.	ILLING	OIS	FED.	AID	PROJ	ECT	
	CONT	DACT NO C	1177						

	SUMMARY OF QUANTITIES			r	
CODE NO.	пем	UNIT	TOTAL QUANTITY	ROADWAY 80% FED 20% VILLAGE 1000-2A	LANDSCAPE IMPROVEMENTS 80% FED 20% VILLAGE Y003
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CUYD	522	522	
20400800	FURNISHED EXCAVATION	CUYD	40	40	
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CUYD	77	77	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	231	231	
25200700	SODDING, SPECIAL	SQ YD	1,200	1,200	
25200200	SUPPLEMENTAL WATERING	UNIT	26	26	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TONS	100	100	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TONS	2	2	
40600300	AGGREGATE (PRIME COAT)	TONS	10	10	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TONS	4	4	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TONS	105	105	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL -BUTT JOINT	SQ YD	47	47	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TONS	350	350	
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQFT	1,612	2,037	
42400800	DETECTABLE WARNINGS	SQFT	80	80	
44000100	PAVEMENT REMOVAL	SQ YD	292	292	
44000159	HOT-MIX ASHALT SURFACE REMOVAL, 2 1/2"	SQ YD	2,263	2,263	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	788	788	
44000600	SIDEWALK REMOVAL	SQFT	3,921	3,921	
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	8	8	
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	24	24	
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	39	39	
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	45	45	
50300300	PROTECTIVE COAT	SQ YD	845	845	
56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	1	1	
60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1	1	
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1	
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	8	8	
60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1	
60265900	VALVE VAULTS TO BE ADJUSTED. WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	3	3	
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	555	555	
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	30	30	

CODE NO.	SUMMARY OF QUANTITIES	UNIT	TOTAL QUANTITY	ROADWAY 80% FED 20% VILLAGE 1000-2A	LANDSCAPE IMPROVEMENTS 80% FED 20% VILLAGE Y003
67100100	MOBILIZATION	L SUM	1	1	
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	11	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	500	500	
72000100	SIGN PANEL-TYPE 1	SQFT	2	2	
72900200	METAL POST - TYPE B	FOOT	14	14	
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQFT	77.4	77.4	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	978	978	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	272	272	
78000500	THERMOPLASTIC PAVEMENT MAI KING - LINE 8"	FOOT	95	95	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	181	181	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	35	35	
81400100	HANDHOLE	EACH	1.	1	
81400115	HANDHOLE TO BE ADJUSTED	EACH	1	1	
89502380	REMOVE EXISTING HANDHOLE	EACH	1	1	
B2001167	TREE, CERCIS CANADENSIS (EASTERN REDBUD) 8' HEIGHT, BALLED AND BURLAPPED	EACH	3		3
K1003680	MULCH	SQ YD	345		345
X0301407	PERENNIAL PLANTS, GALLON POT	UNIT	9		9
X0301895	PERENNIAL PLANTS, QUART POT	UNIT	9		9
XX001621	BRICK PAVER REMOVAL	SQFT	30	30	
XX006561	PORTLAND CEMENT CONCRETE SIDEWALK 5", SPECIAL (SWANEE MIX)	SQFT	4,845	4,845	
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	1	1	
AZ007932	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 4" CALIPER, BALLED AND BURLAPPED	EACH	3		3
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
Xx00793	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-3.12	FOOT	20	20	
XX9676774	CLASS D PATCHES, TYPE (2 INCH	SQ YD	8	8	
xx901915	CLASS D PATCHES, TYPE II, 2 INCH	SQ YD	24	24	
XX0079716	CLASS D PATCHES, TYPE III, 2 INCH	SQ YD	39	39	
XX0071977	CLASS D PATCHES, TYPE IV. 2 IN CH	SQ YD	45	45	
Xx007978	ARCHITECTURAL LIGHTING SYSTEM	EACH	1		1
Pr Proox	ORNAMENTAL METAL RAILING SYSTEM	FOOT	32		32
xxeergeo.xx	PLANTING SOIL, FURNISH AND PLACE, 24"	SQ YD	240		240
c2çe19G5	SHRUB, ARONIA MELANOCARPA 'IROQUOIS BEAUTY (IROQUIS BEAUTY BLACK CHOKEBERRY), 24-INCH HEIGHT, 5-GALLON CONTAINER	EACH	25		25
C2C-071465	SHRUB, ROSA 'RADCON' (RADCON PINK KNOCK-OUT ROSE), 24-INCH HEICHT, 5-GALLON CONTAINER	EACH	27		27

LEGEND

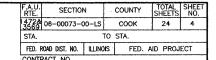
DENOTES SPECIALTY ITEMS

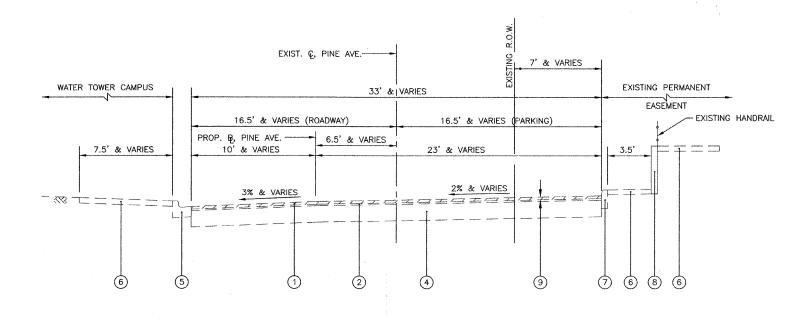
REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME DATE	FAU ROUTES 1472 & 3569
	MAILWAT/ WATER TOWER CAMPUS RESTORATION PROJ
	-1
	VILLAGE OF RIVERSIDE RAILWAY/WATER TOWER CAMPUS RESTORATION PR

SUMMARY OF QUANTITIES

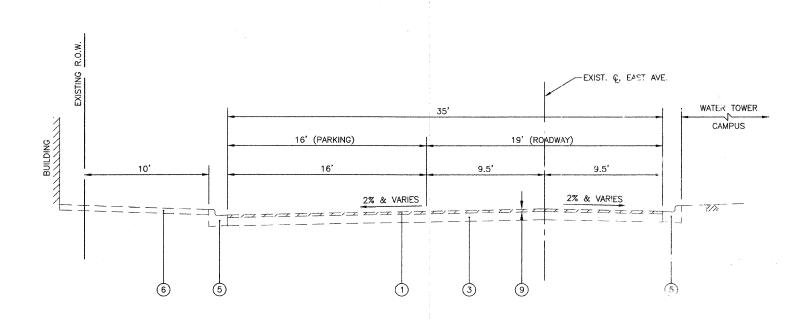
SCALE: NTS
DATE: 12/01/08

DRAWN BY SMP CHECKED BY BDH





EXISTING TYPICAL SECTION - PINE AVENUE STA. 1+66.40 TO STA. 5+27.80



EXISTING TYPICAL SECTION - EAST AVENUE STA. 20+00 TO STA. 23+33.60

LEGEND

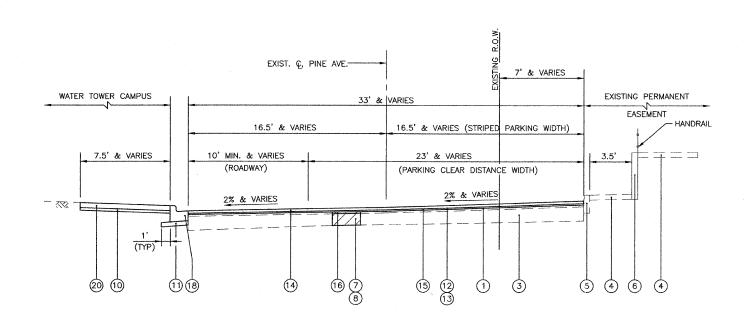
- 1) EXISTING HOT-MIX ASPHALT SURFACE COURSE, 2 1/2" & VARIES
- 2 EXISTING HOT-MIX ASPHALT PAVEMENT, 1 1/2" & VARIES
- 3 EXISTING P.C.C. BASE COURSE, 8" & VARIES
- 4 EXISTING AGGREGATE BASE COURSE, 16" & VARIES
- 5 EXISTING CONCRETE CURB & GUTTER, TYPE B-6.12
- 6 EXISTING P.C.C. SIDEWALK
- 7 EXISTING CONCRETE CURB, TYPE B
- 8 EXISTING RETAINING WALL
- 9 HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"

REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME DATE	EAST AVENUE TO PINE AVENUE
	VILLAGE OF RIVERSIDE
	RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT
	1 '
	1
	T EVICTING TYPICAL SECTIONS

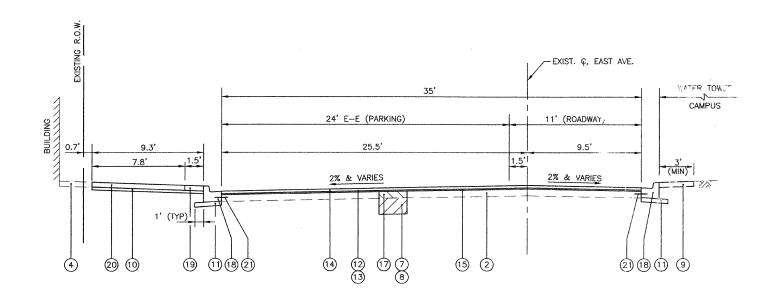
EXISTING TYPICAL SECTIONS

SCALE: 1"=20'
DATE: 12/01/08

DRAWN BY: SMP CHECKED BY: BDH



PROPOSED TYPICAL SECTION - PINE AVENUE STA. 1+66.40 TO STA. 5+27.80



PROPOSED TYPICAL SECTION - EAST AVENUE STA. 20+00 TO STA. 23+33.60

HOT-MIX ASPHALT MIX	TURE REQUIREMEN	ITS
MIXTURE TYPE	AC TYPE	VOIDS
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50, 2 1/2" (IL-9.5mm)	PG 64-22	4% © 50 Gyr.
LEVEL BINDER (MACHINE METHOD), N50, (IL-9.5mm)	PG 64-22*	4% @ 50 Gyr.
PATCHING		
CLASS D PATCHES, 2" (HMA BINDER IL-19mm)	PG 64-22*	4% ❷ 70 Gyr.
CLASS D PATCHES, 8" (HMA BINDER IL-19mm)	PG 64-22*	4% © 70 Gyr.

SECTION COUNTY 14728 06-00073-00-LS COOK 24 5 TO STA FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 63133

NOTE: 1) THE UNIT WEIGHT USED TO CALCULATE ALL HMA QUANTITIES IS 112 LB/SY/IN

2)*-WHEN RAP EXCEEDS 20% THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

PAVEMENT DESIGN CALCULATIONS							
DATE: IMPROVEMENT TYPE: LOCATION:	NOVEMBER 18, 2008 FLEXBLE PAVEMENT CROSS SECTION (RESURFACING) PINE AVENUE						
CLASSIFICATION OF ROADWAY: TRAFFIC FACTOR = DP(((0.073*PV)+(44.3 DESIGN LANE VOL % OF ADT DESIGN PERIOD, FEARS (DP) % OF PASSENGER VEHICLES	50*SU)+(154.943*MU))/ 100	% TRUCKS YEARS	,	50 %PASS. VEHICLES			
% OF SINGLE UNIT TRUCKS % OF MULTI UNIT TRUCKS	1.90 0.10						
AVERAGE DAILY TRAFFIC NO. OF PASSENGER VEHICLES (PV) NO. OF SINGLE UNIT TRUCKS (SU) NO. OF MULTI UNIT TRUCKS (MU)	= 600 = 588 = 11 = 1	TRAFFIC FACTOR I.B.R	Sn)	0.012830 2.5 2.20			
			A 100 C 100				
MATERIAL THICKNESS	STRUCTU	JRAL MATERIAL	COEFFICIENT	r Dt			
2.50	HOT-MIX ASPHALT S MIX C, N50		0.40	1.00			
1.50 16.00	EXIST. HMA BINDER EXIST. SUBBASE GR	0.33 1.28					

DATE: MPROVEMENT TYPE: LOCATION:	COMP	MBER 18, 2008 OSITE PAVEM AVENUE	3)	
CLASSIFICATION OF ROADWAY:			ROADWAY (ADT > 400 AND < OR = 200	00)
TRAFFIC FACTOR = $DP(((0.073*PV)+(44.$	350*SU)+			
DESIGN LANE VOL % OF ADT			% TRUCKS	50 %PASS. VEHICLES
DESIGN PERIOD, YEARS (DP)			YEARS	
% OF PASSENGER VEHICLES		98.00	%	
% OF SINGLE UNIT TRUCKS		1.90	%	
% OF MULTI UNIT TRUCKS	***********	0.10	%	
AVERAGE DAILY TRAFFIC	=	600	TRAFFIC FACTOR	0.012830
NO. OF PASSENGER VEHICLES (PV)	=	588		
NO. OF SINGLE UNIT TRUCKS (SU)	=	11	LB.R	2.5
NO, OF MULTI UNIT TRUCKS (MU)	±	1	COMPOSITE STRUCTURAL	
		***************************************	STRUCTURAL NUMBER (Sn)	2.00
			(,	

MATERIAL				-
THICKNESS	STRUCTURAL MATERIAL	COEFFICIENT	Dt	
2.50	HOT-MIX ASPHALT SURFACE COURSE,			
	MIX C, N50	0.40	1.00	
8.00	EXIST. P.C.C.PAVEMENT	0.17	1.36	
0.00	EXIST. SUBBASE GRAN. MATL.	0.08	0.00	
				=
	TOTAL Dt Provided =		2.36	
				-

PINE AVENUE

EAST AVENUE

LEGEND

- 1 EXISTING HMA PAVEMENT, 1 1/2" L. VARIES
- ② EXISTING P.C.C. BASE COURSE, 8" & VARIES
- 3 EXISTING AGGREGATE BASE COURSE, 16° & VARIES
- (4) EXISTING P.C.C. SIDEWALK
- (5) EXISTING CONCRETE CURB, TYPE B
- 6 EXISTING RETAINING WALL
- 7 POROUS GRANULAR EMBANKMENT, SUBGRADE (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- (8) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- SODDING, SPECIAL (INCLUDES 4" PULVERIZED TOP SOIL AND FERTILIZER)
- (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- (10) SUB-BASE GRANULAR MATERIAL, "YPE B 2" (COST INCLUDED IN P.C.C. SIDEWALK)
- 1 SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- (COST INCLUDED IN CONCRETE CURB AND GUTTER) (2) BITUMINOUS MATERIALS (PRIME COAT)
- (3) AGGREGATE (PRIME COAT)
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2 1/2"
- (5) LEVELING BINDER (MACHINE METHOD), N70, VARIABLE THICKNESS (MINIMUM 3/4" THICKNESS)
- (6) CLASS D PATHES, 2" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- (7) CLASS D PATHES, 8" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- (8) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (THICKNESS OF GUTTER FLAG SHALL BE 10" EXCEPT WHERE ADJACENT TO PCC PAVEMENT. WHEN ADJACENT TO PCC PAVEMENT, BOTTOM OF GUTTER SHALL BE AT THE SAME GRADE AS THE BOTTOM OF THE P.C.C. PAVEMENT)
- 19 PORTLAND CEMENT CONCRETE SIDEWALK 5"
- (AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER)
- 20 PORTLAND CEMENT CONCRETE SIDEWALK 5", SPECIAL (SWANEE MIX) (AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER)
- 21 24" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS, 24" CTRS. DRILLED AND GROUTED IN PLACE

COST	INCLUDED	IN CONCRETE	CURB AND GUTTER)	

REVISION:	S	ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	EAST AVENUE TO PINE AVENUE
		VILLAGE OF RIVERSIDE
		RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT

PROPOSED TYPICAL SECTIONS

SCALE: 1"=20" DATE: 12/01/08

DRAWN BY: SMP CHECKED BY: BDH

F.A.U. SECTION		COUNTY	TOTAL	SHEET NO.
4728 3569 06-00073-0	00-LS	соок	24	6
STA.	то	STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID	PROJECT	
CONTRACT NO 6	3133			

EARTHWORK		
LOCATION	REMOVAL & DISPOSAL OF UNSUITABLE MAT.* (CU YD)	FURNISHED EXCAVATION** (CU YD)
RAILWAY/WATER TOWER CAMPUS AREA	415	40
EAST AVE. AND PINE AVE. LANDSCAPE RESTORATION	30	0
EAST AVE. AND PINE AVE. UNDERCUTS	77	0
TOTAL QUANTITY =	522	40

[&]quot;ALL CUT MATERIAL SHALL BE HAULED OFF SITE DUE TO NO ONSITE STORAGE LOCATIONS.
"ALL FILL MATERIAL (EMBANKMENT) SHALL BE BROUGHT IN FROM OFFSITE LOCATION,
SINCE THE ONSITE EXCAVATED MATERIAL MUST BE HAULED OFF SITE.

NEW TY	PE 1 FRAME, O	PEN LID
	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
EAST AVENUE 20+97	9.5' RT	1
TOTAL QUANTITY		1

MANHO	LES TO BE AD.	USTED
STATION	OFFSET (FEET)	QUANTITY (EACH)
EAST AVENUE 21+03	13' LT	1
TOTAL QUANTITY =		1

MANHOLE	S TO BE ADJUS	TED WITH
NEW TYP	E 1 FRAME, CL	OSED LID
	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
PINE AVENUE		
1+80	2' LT	1
2+42	1' RT	1
2+81	18' RT	1
4+11	5' RT	1
4+70	6' RT	1
4+97	10' LT	1
EAST AVENUE		
22+06	56° F.7	1
23+12	9' LT	1
TOTAL QUANTITY =	1	8

MANHOLES TO	O BE RECONST	RUCTED WITH
NEW TYP	PE 1 FRAME, CL	OSED LID
	OFFSET	QUANTITY
STATION	(CEET)	(EACH)
PINE AVENUE		
4+92	16' RT	1
TOTAL OLIANTITY		<u> </u>
TOTAL QUANTITY =	} ====================================	1

	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
NE AVENUE		
3+88	18' LT	1

VALVE VAUL	TS TO BE ADJ	JSTED WITH
NEW TYPI	E 1 FRAME, CL	OSED LID
	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
EAST AVENUE		
21+95	10' LT	1
22+07	17' RT	1
22+15	17' RŢ	1
TOTAL QUANTITY =		3

VALVE B	OXES TO BE A	DJUSTED
	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
PINE AVENUE 4+04	30' L ~	1
OTAL QUANTITY =		1

	HANDHOLE	
	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
EAST AVENUE	17' RT	
		<u> </u>
TOTAL QUANTITY =	1	

	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
PINE AVENUE		
3+17	21' LT	1
TOTAL QUANTITY =	1	

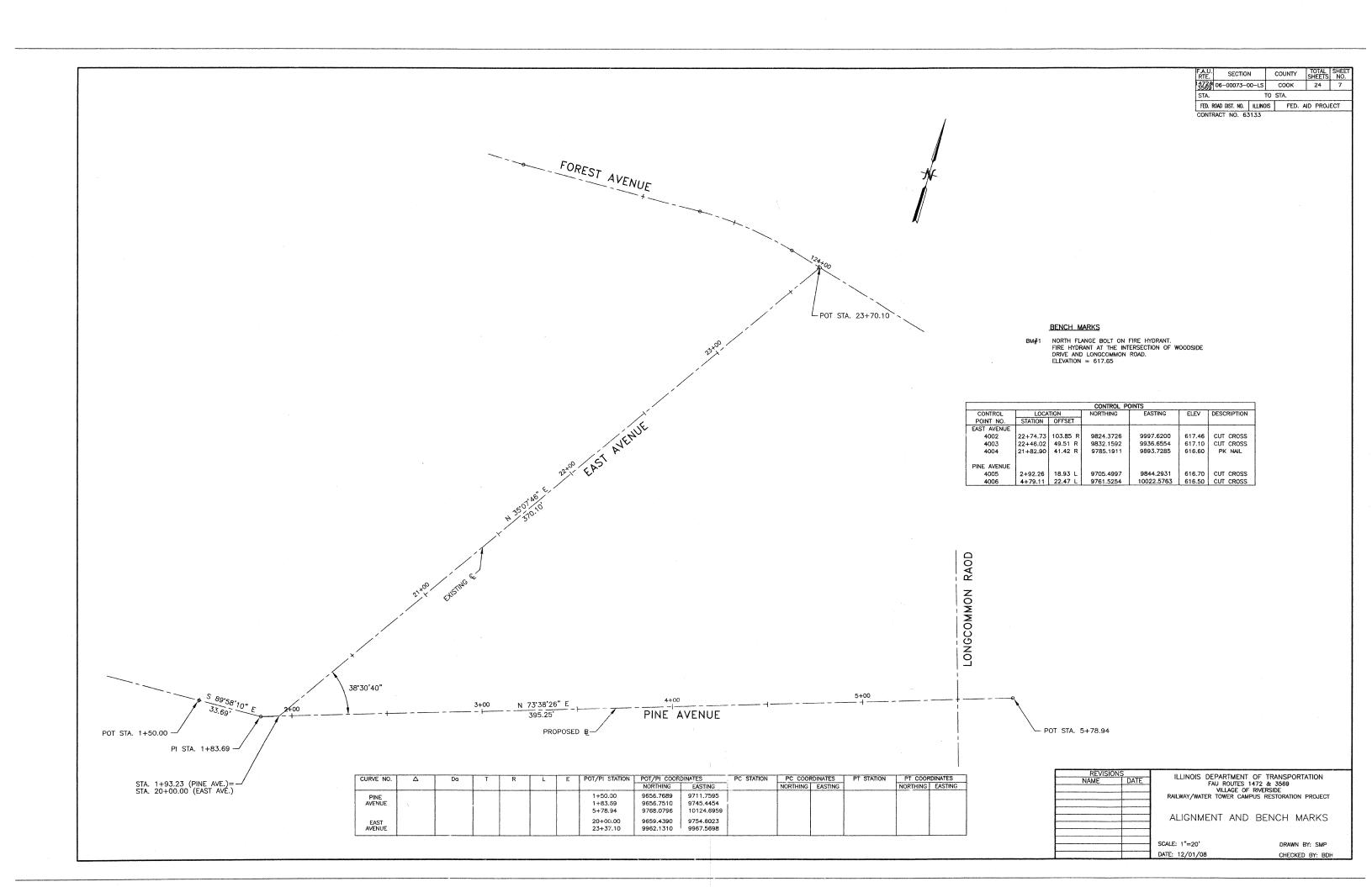
REMOVE EXISTING HANDHOLE				
	OFFSET	QUANTITY		
STATION	(FEET)	(EACH)		
EAST AVENUE 21+84	17' RT			
TOTAL QUANTITY		1		

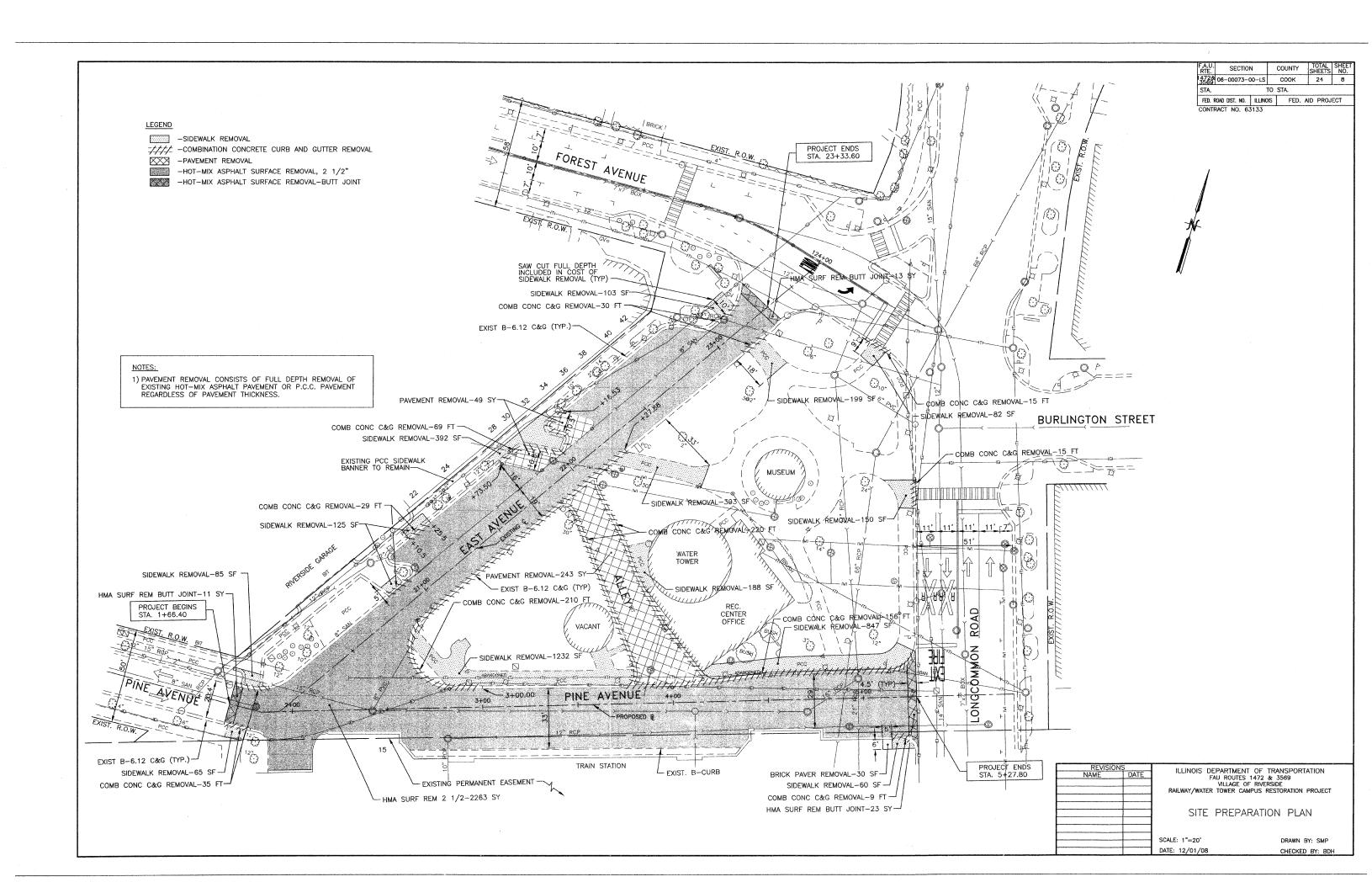
HANDHOLE T	O BE ADJUST AME AND COV	
	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
PINE AVENUE 3+96	39' LT	1
TOTAL QUANTITY =		1

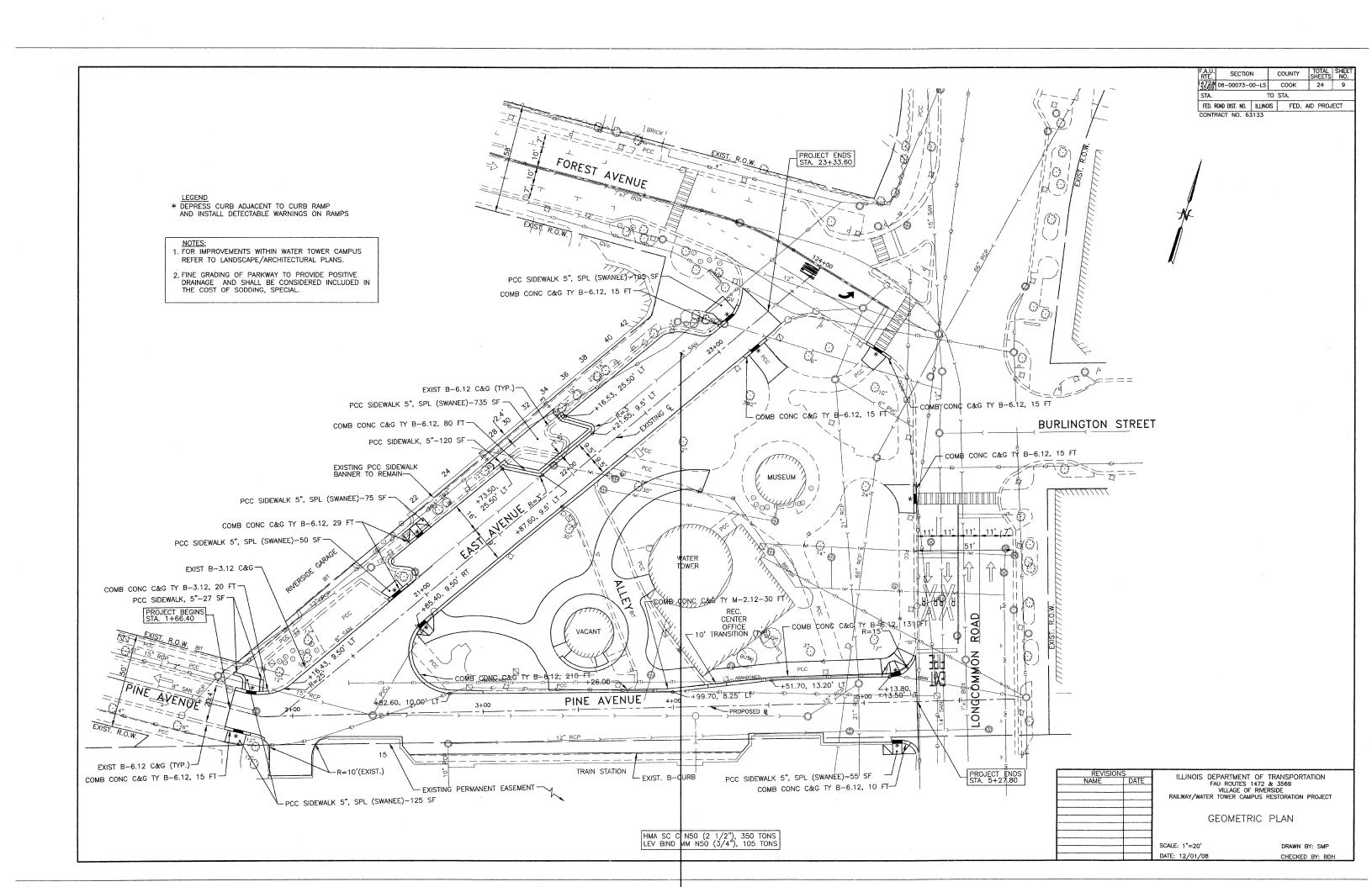
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME E	DATE	FAU ROUTES 1472 & 3569
		VILLAGE OF RIVERSIDE
		RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT
		, ,

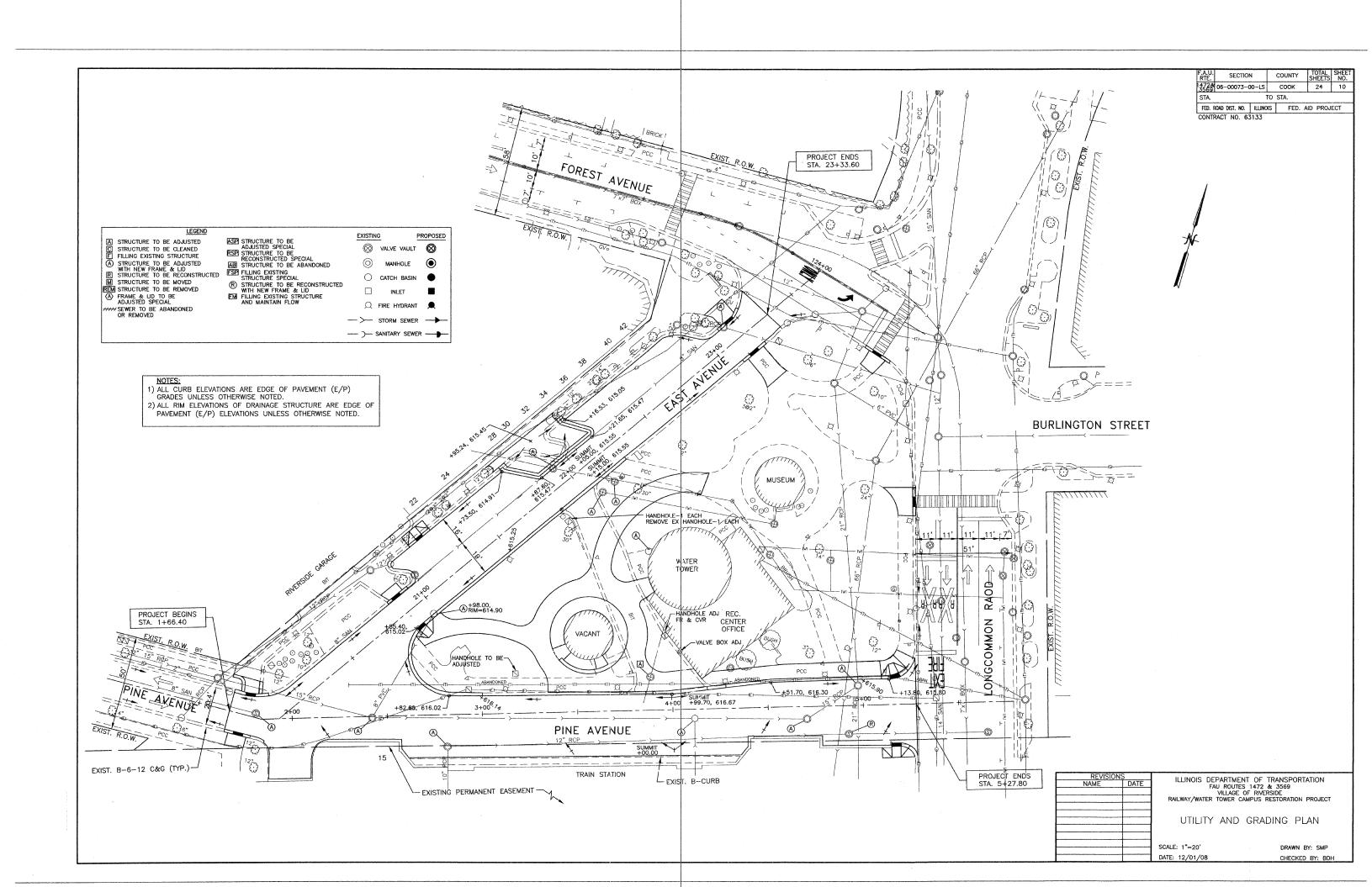
SCHEDULE OF QUANTIFIES	SCHEDULE	OF	QUANTITIES
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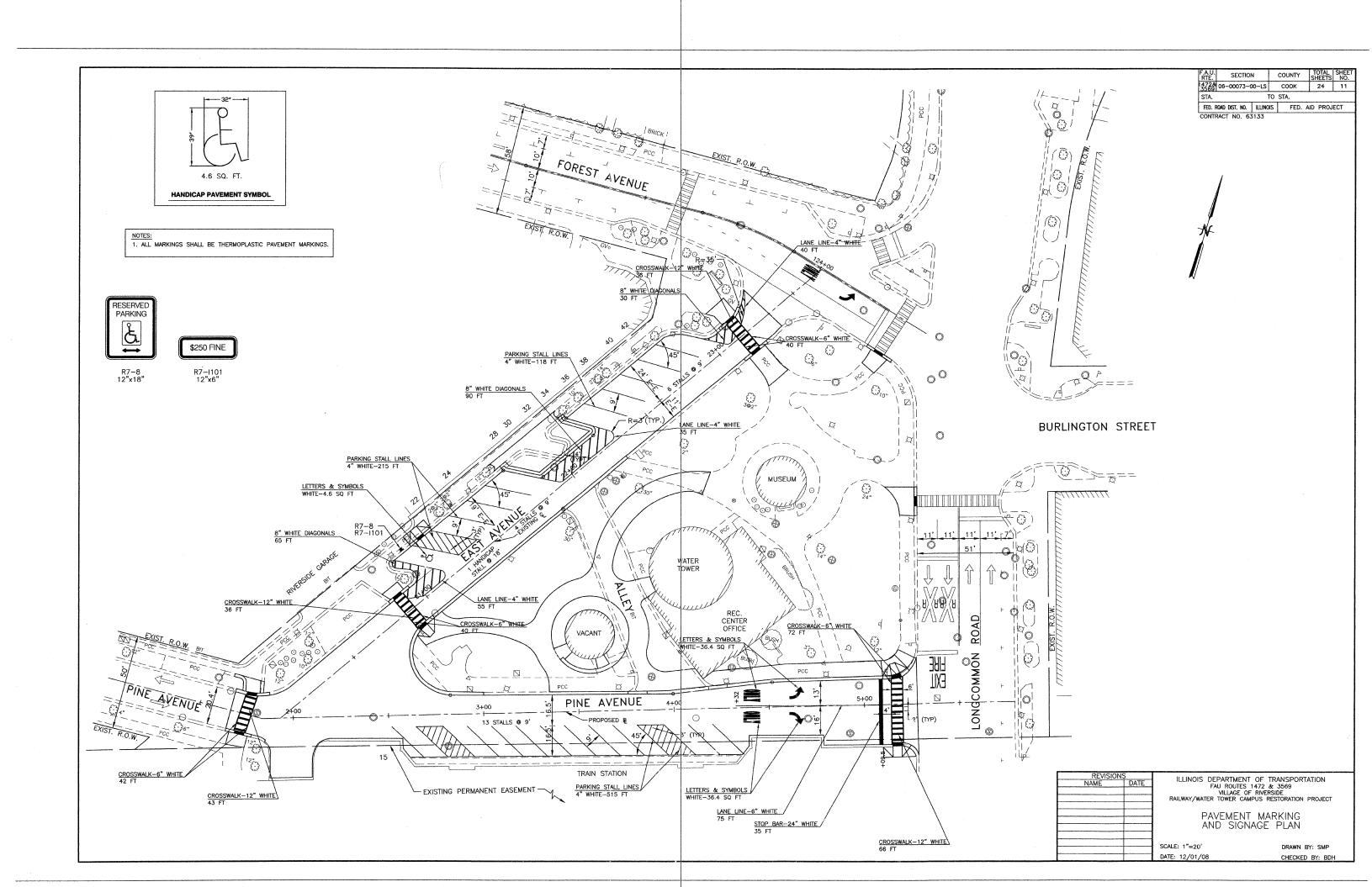
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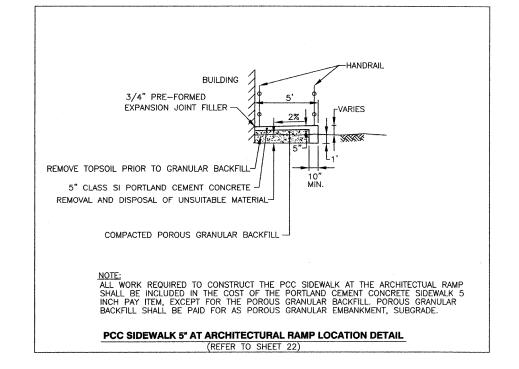


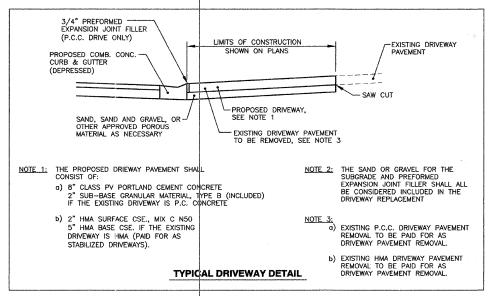


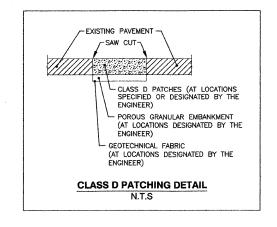


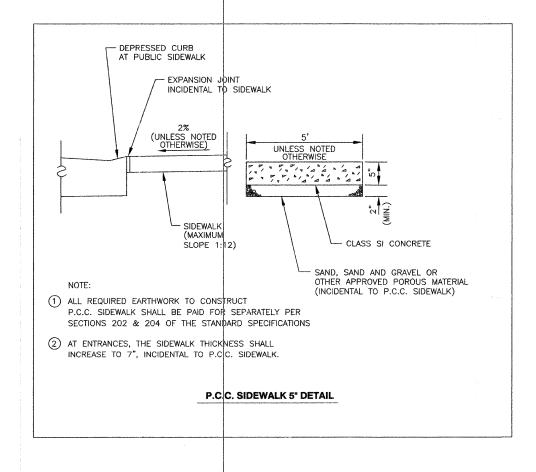


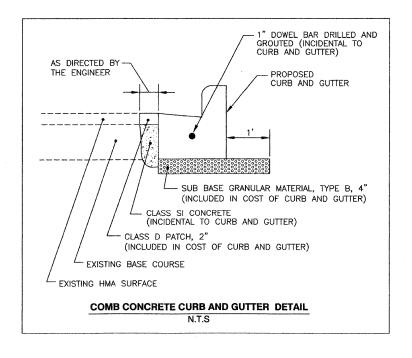












REVISIONS NAME DAT	ILLINOIS DEPARTMENT OF TRANSPORTATION FAU ROUTES 1472 & 3569 VILLAGE OF RIVERSIDE RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT
	CONSTRUCTION DETAILS

DRAWN BY SMP

SCALE: NTS

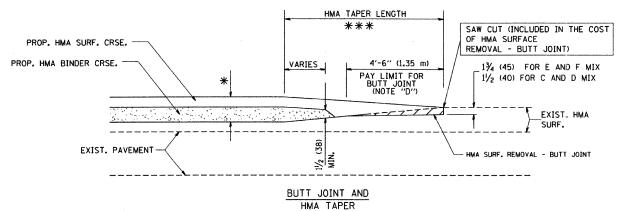
DATE: 12/01/08

COUNTY

TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SECTION 14728 3569 06-00073-00-LS COOK

CONTRACT NO. 63133



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

CONTRACT NO. COUNTY TOTAL SHEETS NO. F.A. SECTION 1472 & 06-00073-00-LS COOK 24 13 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 63133 PROP. HMA OR PCC
SURFACE REMOVAL - BUTT JOINT
30'-0" (9.0 m) (NOTE "A") SAW CUT (INCLUDED IN THE COST OF HMA OR P.C.C. SURFACE REMOVAL EXIST. HMA OR PCC SURFACE 15'-0" (4.5 m) (NOTE "B") - BUTT JOINT) (NOTE "D") 13/4 (45) FOR E AND F MIX 11/2 (40) FOR C AND D MIX * * EXIST. PAVEMENT BUTT JOINT DETAIL TAPER LENGTH * * VARIES PROP. HMA SURF. CRSE.-13/4 (45) FOR E AND F MIX PROP. HMA BINDER CRSE. 11/2 (40) FOR C AND D MIX * * EXIST. PAVEMENT HMA TAPER DETAIL TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

* * * 20'-0" 6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SOUARE YARD (SOUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

111-41310		II.
NAME	DATE	11.
M. DE YONG	6-13-90	
M. DE YONG	7-3-90	
M. DE YONG	3-27-92	
R. SHAH	09/09/94	
R. SHAH	10/25/94	
A. ABBAS	03/21/97	
M. GOMEZ	04/06/01	
R. BORO	01/01/07	SCALE:
		SCALE:

REVISIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION

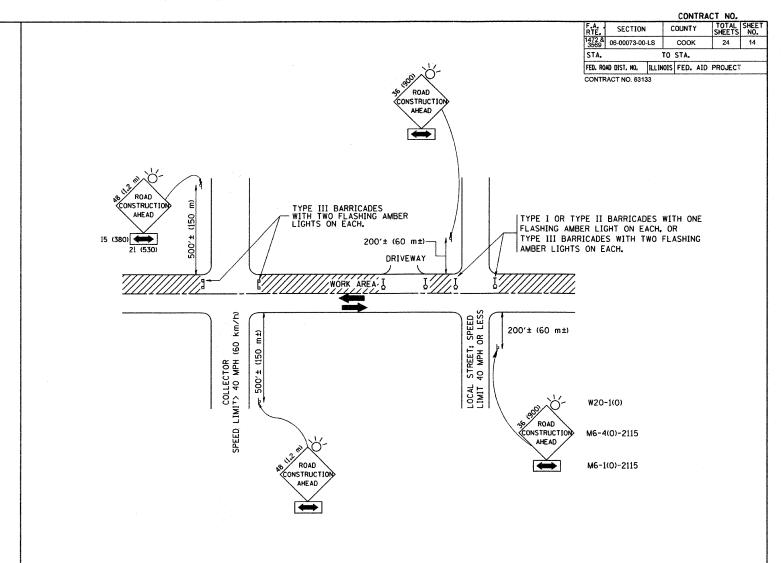
BUTT JOINT AND HMA TAPER DETAILS

VERT. HORIZ. NONE

BD400-05 (VI=BD32)

CHECKED BY

DRAWN BY



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON 1T APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

i		REVISIO
	DATE	NAME
TE	6/89	LHA
111	09/08/94	T. RAMMACHER
	10/18/95	J. OBERLE
6	03/06/96	A. HOUSEH
)	10/15/96	A. HOUSEH
	01/06/00	T. RAMMACHER
SCA		
36,		
1		

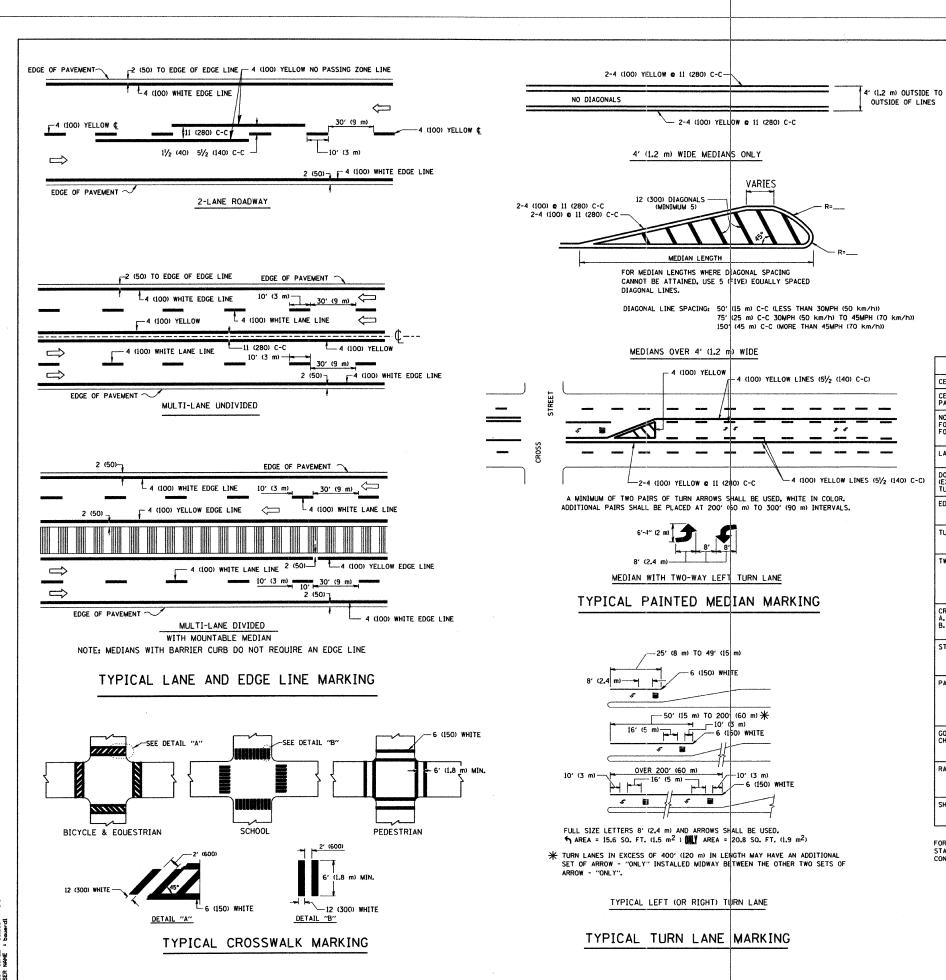
ILLINOIS DEPARTMENT OF TRANSPORTATION
RAFFIC CONTROL AND PROTECTION
FOR
SIDE ROADS, INTERSECTIONS, AND
DRIVEWAYS

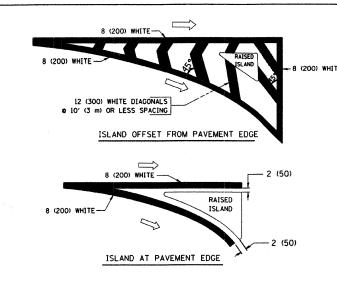
SCALE: NONE

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TC-10

OT DATE = 3/6/2807 LE NAME = Kindiststd/tol@dgn OT SCALE = 50.080 '/ IN.





TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 & 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 e 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 e 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKT & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 & 4 (100) WITH 12 (300) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE
	e 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m. LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) c 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

REVISION		II I INOI	S DEPARTMENT	OF TRANSP	DTATION
NAME	DATE	ILLINO	3 DELAKTINENT	OF IMANSE	JK I A I I ON
EVERS	03-19-90				
T. RAMMACHER	10-27-94		DISTRIC	T ONE	
ALEX HOUSEH	10-09-96				
ALEX HOUSEH	10-17-96		TYPICAL P	PAVEMENT	
T. RAMMACHER	01-06-00		MARK]	INGS	
			,		
		SCALE: NONE		DRAW	N BY CADE

CHECKED BY

CONTRACT NO.

COUNTY

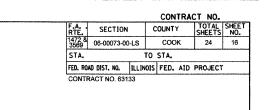
TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

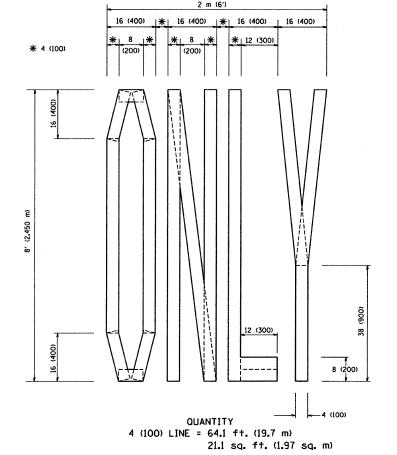
COOK

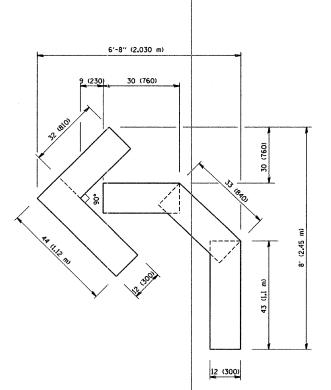
SECTION 1472 & 06-00073-00-LS

CONTRACT NO. 63133

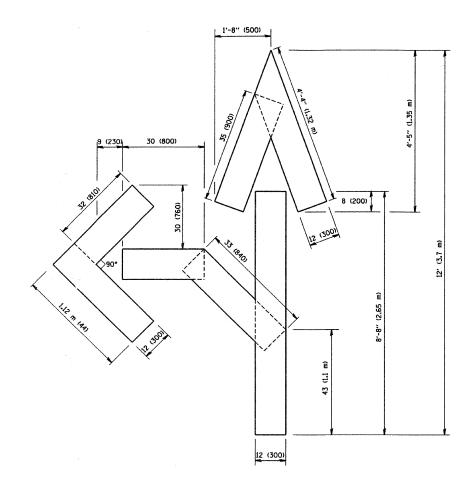
TOTAL SHEET SHEETS NO.







OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

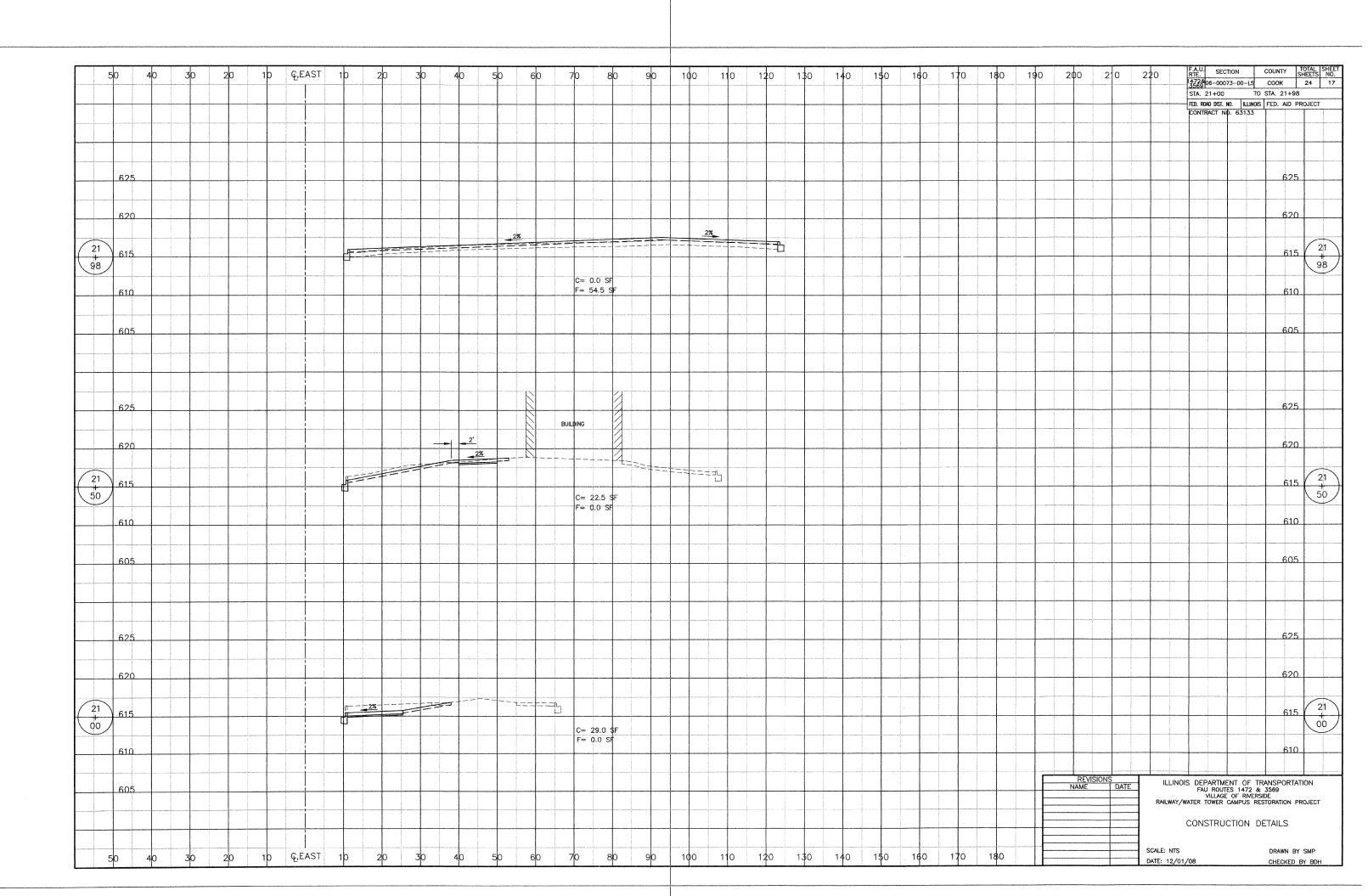
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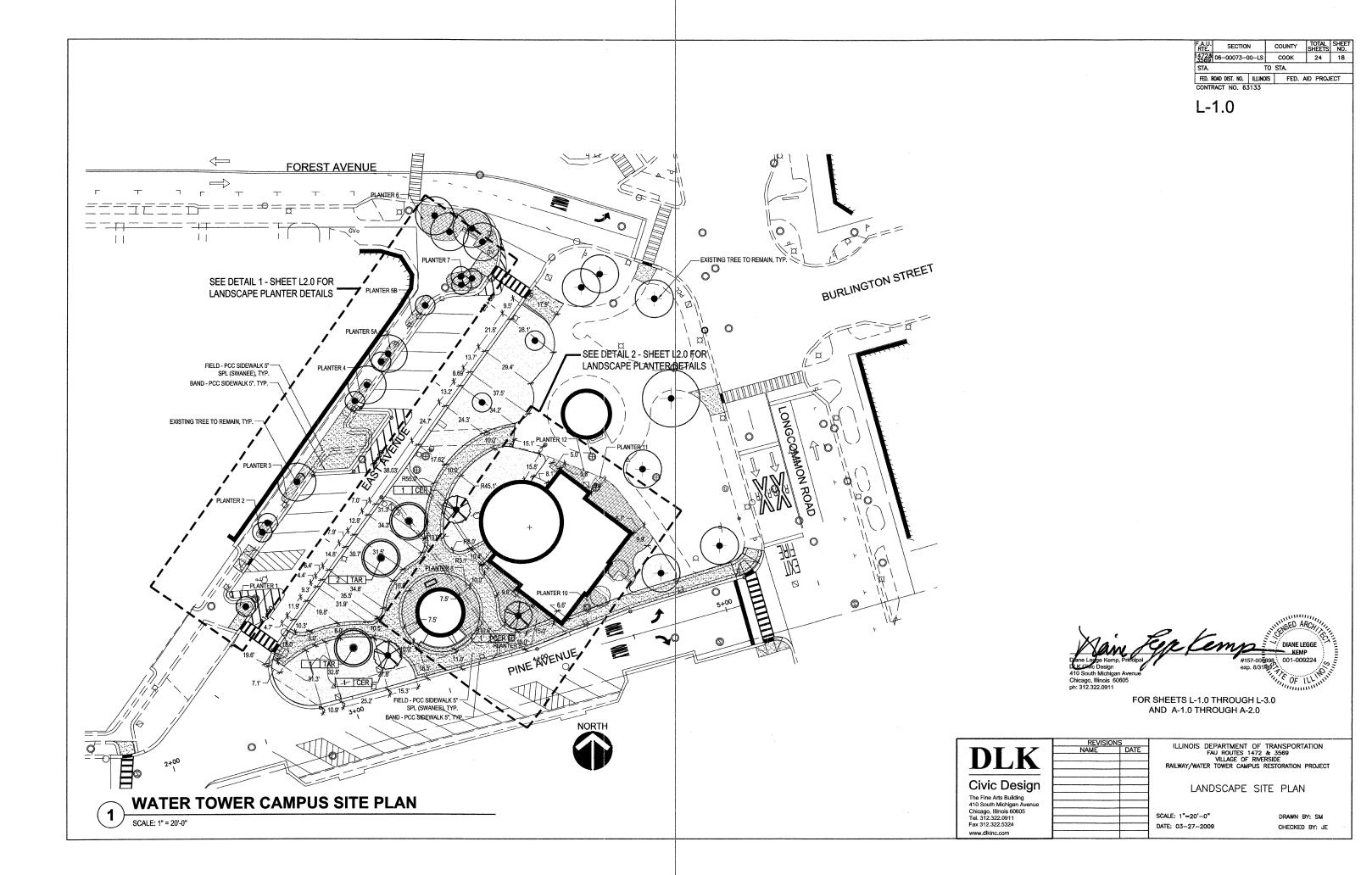
REVISIO		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
T. RAMMACHER	09/18/94	
J. OBERLE	06/01/96	DAVENENT MADEING
T, RAMMACHER	06/05/96	PAVEMENT MARKING
T. RAMMACHER	11/04/97	LETTERS AND SYMBOLS
T. RAMMACHER	03/02/98	
E. GOMEZ	08/28/00	FOR TRAFFIC STAGING
		CONF NONE

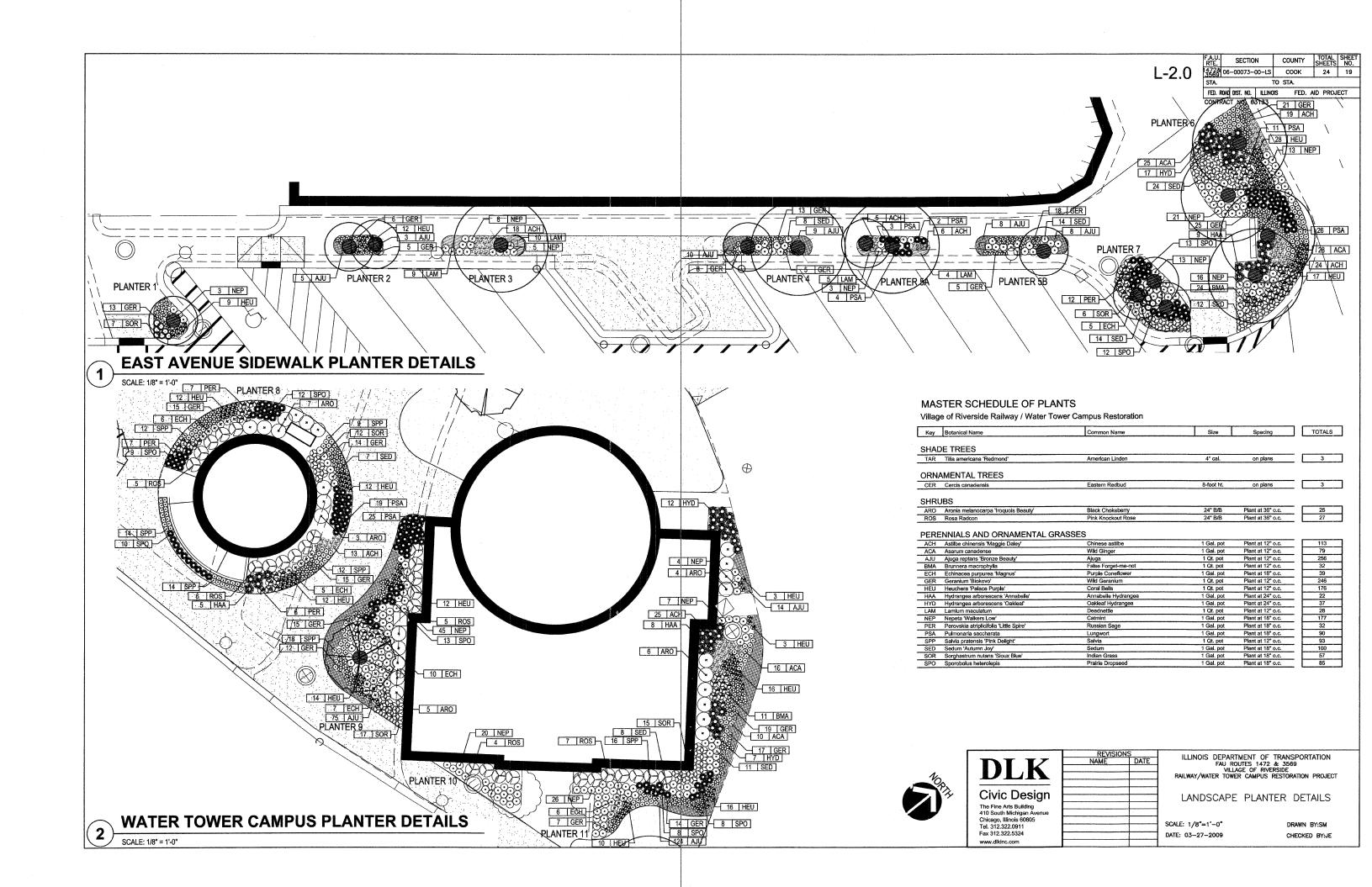
C-16

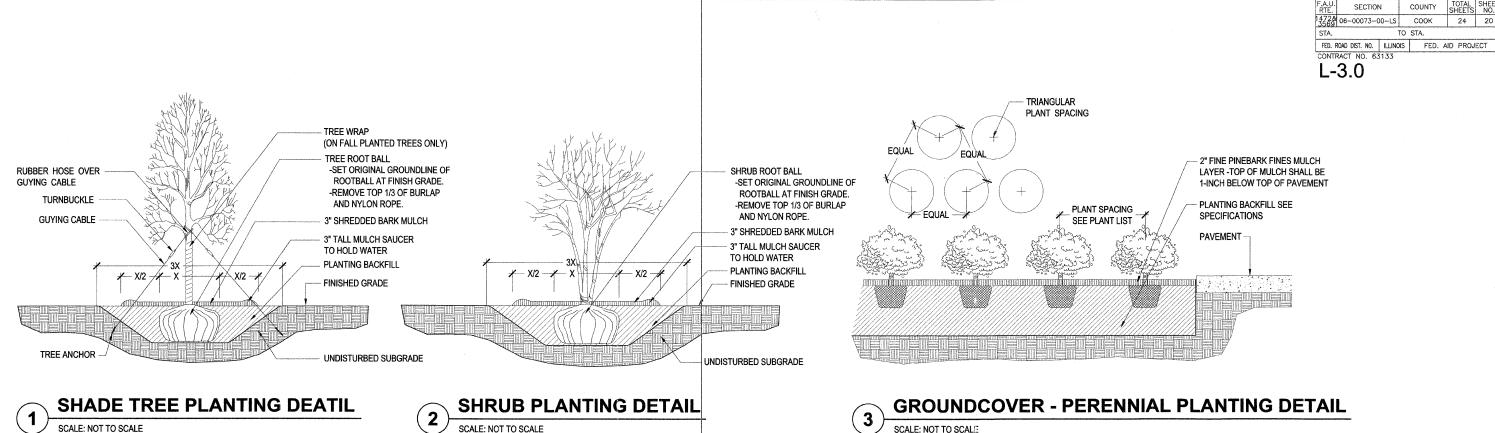
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SCALE: NOT TO SCALE

DLK Civic Design The Fine Arts Building 410 South Michigan Avenue Chicago, Illinois 60605 Tel. 312.322.0911 Fax 312.322.5324 www.dlkinc.com

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAU ROUTES 1472 & 3569
VILLAGE OF RIVERSIDE
RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT

LANDSCAPE DETAILS

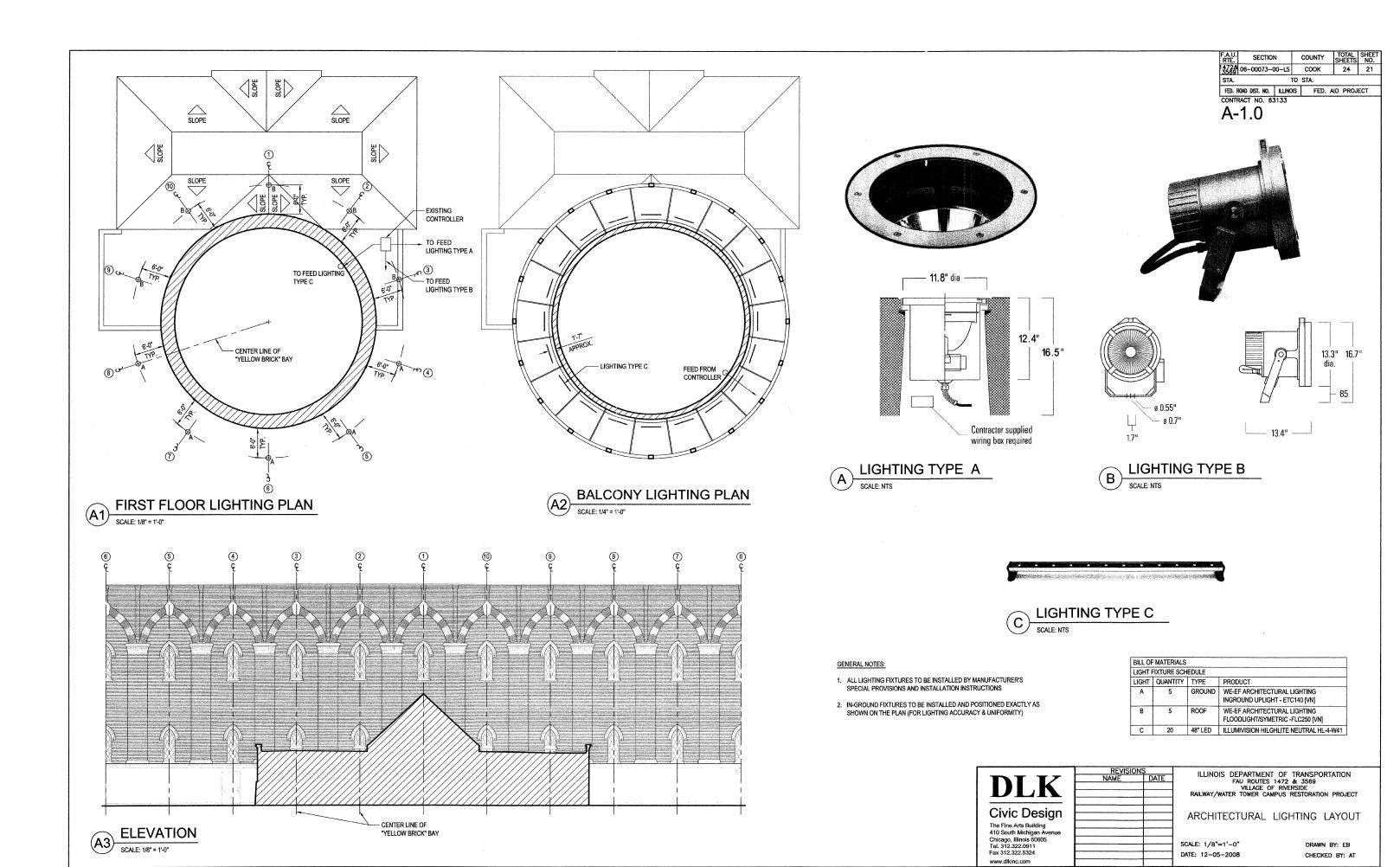
SCALE: NOT TO SCALE DATE: 12-05-2008

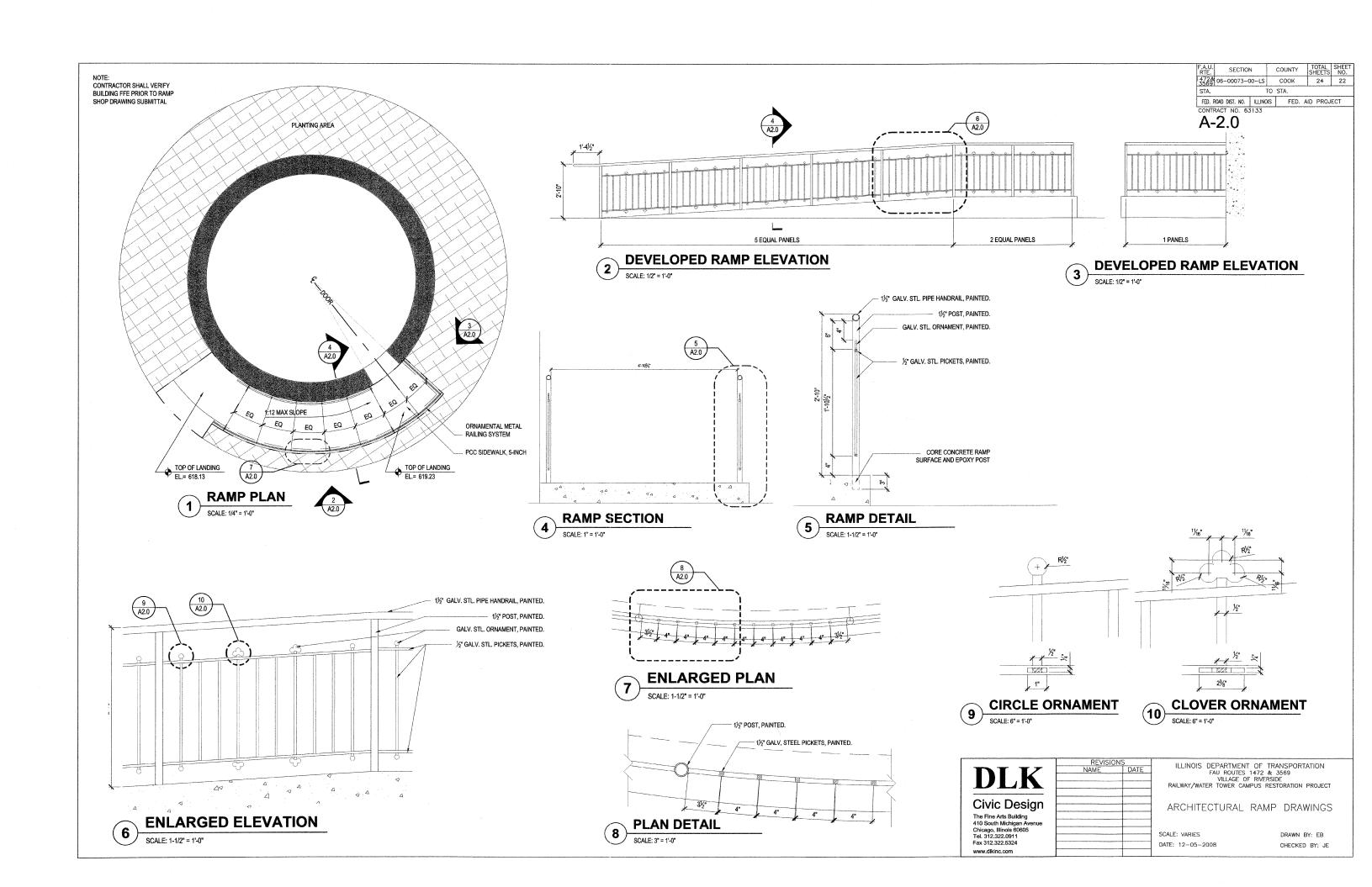
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COUNTY

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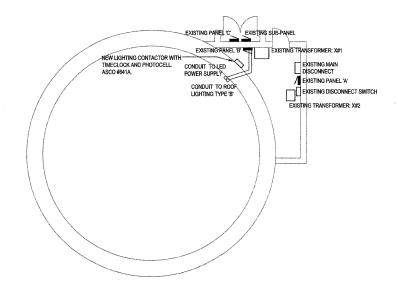
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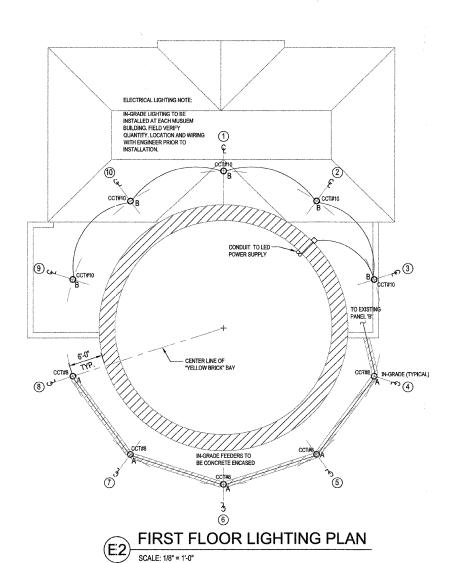


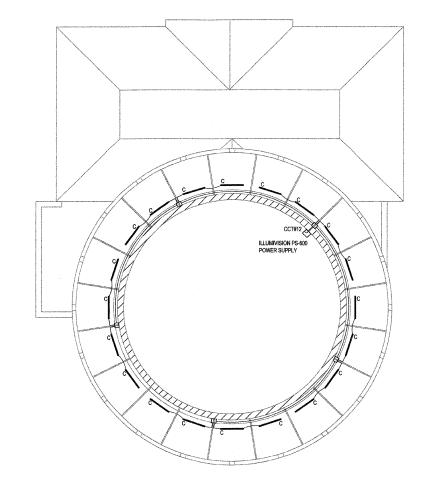
F.A.U. RTE.	SECTION		COUNTY		SHEETS	SHEET NO.				
1472& 3569	06-00073-0	соок		24	23					
STA.	TO STA.									
FED. F	ROAD DIST. NO.	ILLINO	IS	FED.	AID PROJ	ECT				

CONTRACT NO. 63133



ELECTRICAL CLOSET PLAN SCALE: 1/4" = 1'-0"





BALCONY LIGHTING PLAN E3 SCALE: 1/4" = 1'-0"



BUILDING **W** ENGINEERING M SYSTEMS, LLC

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAU ROUTES 1472 & 3569
VILLAGE OF RIVERSIDE
RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT

ELECTRICAL POWER AND LIGHTING PLANS

SCALE: AS NOTED DATE: FEBRUARY 6, 2009

DRAWN BY: CHECKED BY:

ELECTRICAL NOTES AND SPECIFICATIONS:

- ALL WORK SHALL COMPLY WITH APPLICABLE LOCAL ELECTRICAL, BUILDING AND FIRE CODES, APPLICABLE FEDERAL AND STATE REGULATIONS.
- 2. LAYOUT IS DIAGRAMMATIC AND CONTRACTOR SHALL INSTALL EQUIPMENT TO MEET THE FIELD CONDITIONS.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION FEES AS REQUIRED FOR HIS PORTION OF THE WORK.
- . CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL COMPLETION.
- . CONTRACTOR SHALL COORDINATE ALL WORK WITH THE RESPECTIVE TRADES AND VERIFY LOCATIONS FROM THE ARCHITECTURAL DRAWINGS, FIELD MEASUREMENTS AND SUPPLIER SHOP DRAWINGS.
- 6. CONTRACTOR SHALL VISIT SITE TO DETERMINE THE FULL EXTENT OF THE WORK AND FACILITY LOCATIONS AND VERIFY WITH THE LOCAL GOVERNING BODIES.
- 7. CONTRACTOR SHALL FURNISH SHOP DRAWING ON ALL EQUIPMENT AND FIXTURES TO ENGINEER FOR REVIEW; QUANTITY AS PER GENERAL PROVISIONS.
- 8. CONTRACTOR SHALL FURNISH ONE SET OF AS-BUILTS TO ENGINEER OF ALL CONTRACT WORK.
- 9. CONTRACTOR SHALL CHECK ALL DRAWINGS AND SPECIFICATIONS OF OTHER TRADES AND INCLUDE IN HIS BID ANY ADDITIONAL WORK REQUIRED BY THIS TRADE.

- 10. ALL EXISTING CONDITIONS MUST BE VERIFIED AT THE PROJECT SITE BY THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO MAKE ANY AND ALL PROVISIONS NECESSARY TO ADAPT THE NEW WORK TO EXISTING CONDITIONS. ALL SUCH ADAPTATION MUST BE REVIEWED BY THE ENCINEER AND MUST BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- 11. THE CONTRACTOR SHALL AVOID ALL STRUCTURAL SUPPORT MEMBERS.
 RELOCATE EQUIPMENT AS NECESSITATED BY FIELD CONDITIONS, FROM WHERE SHOWN ON DRAWINGS. CUTTING SHALL ONLY BE DONE AFTER OBTAINING ARCHITECT'S REVIEW.
- 12. THE CONTRACTOR SHALL PROTECT THE EXISTING FACILITY AND SHALL EXERCISE CARE NOT TO DAMAGE ANY EXISTING CONSTRUCTION TO REMAIN. ALL WORK DAMAGE BY THE CONTRACTOR MUST BE RESTORED SO AS TO MATCH EXISTING ADJACENT SUFFACES IN ALL RESPECTS AND AS APPROVED BY THE ARCHITECT. ANY SUCH CORRECTIVE WORK MUST BE PERFORMED AT NO ADDITIONAL COST. ALL CORING AND COST. ALL CORING AND FLOOR BELOW SHALL BE AFTER HOURS AND ON OVERTIME BASIS.
- 13. THE CONTRACTOR SHALL VERIFY THE CONDITION OF EXISTING ELECTRICAL PANELS AND NUMBER OF SPARES AND SPACES. HE SHALL PROVIDE AND INSTALL OVERCURRENT DEVICES AS REQUIRED TO CONTROL NEW CIRCUITRY.
- 14. THE CONTRACTOR SHALL MAINTAIN THE ELECTRICAL CONTINUITY OF ELECTRICAL CIRCUITS, EQUIPMENT, AND DEVICES TO REMAIN. HE SHALL REWORK AND RECIRCUIT AS NECESSARY TO INSURE THE PROPER FUNCTIONING OF REMAINING CIRCUITS, EQUIPMENT AND DEVICES.

- 15. CIRCUIT NUMBERS GIVEN ON DRAWINGS ARE FOR CIRCUIT IDENTIFICATION ONLY. THE CONTRACTOR SHALL INSTALL CIRCUITRY AS GOVERNED BY FIELD CONDITIONS. HE SHALL KEEP A TYPED RECORD CORRELATING GIVEN AND ACTUAL CIRCUIT NUMBERS AND RECORD THIS INFORMATION ON THE PANEL DIRECTORIES.
- 16. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER CONTRACTORS AND WITH THE EXISTING JOB SITE CONDITIONS. HE SHALL RELOCATE EQUIPMENT AS REQUIRED TO AVOID CONFLICT WITH OTHER TRADES. ALL DEVIATIONS SHALL BE APPROVED BY THE ENGINEER BEFORE EXECUTION OF WORK.
- 17. OUTAGES OF EXISTING ELECTRICAL SYSTEMS NECESSITATED BY THE NEW CONSTRUCTION WORK OF ALL TRADES SHALL BE IN ACCORDANCE WITH A SCHEDULE ISSUED IN THE FIELD BY THE LANDLORD & BLOG. ENGINEER. INCLUDE ALL ELECTRIC WORK, OVERTIME LABOR AND SUPERVISION NECESSARY TO ADHERE TO THIS SCHEDULE.
- 18. ANY EXISTING ELECTRICAL WORK WHICH IS PULLED OUT OR CUT AWAY SHALL BE REMOVED FROM THE SITE AS IF IT WERE RUBBISH. PROPER CREDIT SHALL BE GIVEN FOR ALL SALVAGEABLE ITEMS.
- RACEWAYS SHALL BE MINIMUM 3/4" EMT FOR LIGHTING AND APPLIANCE BRANCH CIRCUITRY AND MINIMUM 3/4" EMT FOR TELEPHONE.
- 20. CONDUCTORS SHALL BE COPPER, MINIMUM #12 A.W.G., VITH TYPE THWN INSULATION.
- 21. RACEWAY FITTINGS SHALL BE GALVANIZED STEEL, CODE APPROVED TYPE.

- ALL BRANCH CIRCUITS SHALL BE GROUPED INTO PHASE BALANCED MULTIPLE CIRCUIT HOMERUNS. A MAXIMUM OF 6 CIRCUITS PER SINGLE HOMERUN.
- 23. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE CONDUCTOR AND RACEWAY SYSTEM FOR ALL CIRCUIT DEVICES INDICATED ON THE PLANS EVEN THOUGH NOT DELINEATED.
- 24. WIRES FOR BRANCH CIRCUITS THAT EXCEED 100' IN LENGTH FROM PANEL TO CENTER OF LOAD SHALL NOT BE SMALLER THAN #10 AWG.
- 25. INSTALLATION OF ALL LIGHTING FIXTURES SHALL INCLUDE ALL NECESSARY CONDUIT (SOLID OR FLEXIBLE), WIRING, JUNCTION BOXES, ETC., FOR CIRCUIT DEVICES.
- 26. ALL ELECTRICAL EQUIPMENT AND INSTALLATION ABOVE THE CEILING SHALL BE APPROVED FOR PLENUM CONDITIONS AS REQUIRED BY APPLICABLE GOVERNING AUTHORITY.
- ALL CIRCUITRY TO BE RUN CONCEALED UNLESS OTHERWISE INDICATED.
- 28. MATERIAL AND EQUIPMENT SHALL MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.

CONTRACT NO. 63133

VOLTAGE DROP CALCULATIONS

BRANCH: LIGHTING TYPE RUN LENGTH: 99FT CABLE SIZE: 12AWG AMPACITY SERVED: 1 CURRENT RESISTANC 120V 14 CONNECTION

CABLE SIZE: 12AI
AMPACHY SERVED
CURRENT RESISTA
120V 19 CONNEC

**PAMPACITY V(d)=RESISTANCE*(LENGTH)
==2.0*(88/1000)*1.46
=0.257/
**Xy(d)=[V(d)/120V]*100
==0.2147.120)*100
==0.2147.120

BRANCH: LIGHTING TYPE 'C'
RUN OVER 100FT TO MAX.: 110FT
CABLE SIZE: 10AWG
AMPACITY SERVED: 4.5A
CURRENT RESISTANCE: 1.2
120V 19 CONNECTION

CONDUCTORS FOR BRANCH CRICUITS SHALL BE SZED TO PREVENT A VOLTAGE ROOP NOT TO EXCEED 3X AT THE PARTHEST LOAD PER VILLAGE OF RIVERSIDE AND NEC CODE SECTION 210.19.

CONDUCTORS FOR FEEDERS SHALL BE SZED TO PREVENT A VOLTAGE BROP NOT TO EXCEED 3X AT THE PARTHEST LOAD PER VILLAGE OF RIVERSIDE AND NEC CODE SECTION 215.2.

ALL FEEDERS GREATER THAN 100" IN LENGTH SHALL BE SIZED ONE CAGE LARGER TO COMPLY WITH THIS SECTION.

PHOTOCELL TO BE LOCATED ON THE ROOF, VERIFY LOCATION IN THE FIELD. EXISTING FEEDERS EXISTING FEEDERS EXISTING FEEDERS NEW ASCO #641/ EXSITING SUB-PANEL EXSITING PANEL: 'B' MCB 30-POLE EXSITING EXSITING PANEL: 'C' EXISTING SAFETY SWITCH 100A DISCONNECT ISWITCH 120/208V 120/208V 75kVA 480-120/208 3ø,4W 480/277V 400A 37.5k^{v/A} 480-, 20/208V 3ø.4W EXISTING DRY-TYPE TRANSFORE X#2 EXISTING FEEDERS EXISTING FEEDERS TO UTILITY

RIVERSIDE TOWER-RISER DIAGRAM

SCALE: N.T.S.

	ICE: 120/208 VOLTS , 3	- Ø <u>- 4</u> -	WIRES	-]M.L.O.			
	SIZE: 200 AMPS				MAIN O.C.	DEVICE -	- SIZE: <u>200</u> AMPS	
LOCA.	TION: ELECTRIC CLOSET			[GND BUS		☐ISO GND BUS	
CCT#		AMPS	PHASE A	PHASE B	PHASE C	AMPS DOLES		CCT#
1		1	9600 1080				REC- ELECTRICAL ROOM	2
3	SUB-PANEL: 'SW-HOUSE'	100/3		9600 600		20/1	LIGHTING CONTROLLER	4
5		1			9600 0	20/1	EXISTING	6
7			3840 175			20/1	LTG FIXTURE TYPE 'A'	8
9	ROOFTOP UNIT	40/3		3840 175		20/1	LTG- FIXTURE TYPE 'B'	10
11					3840 540	20/1	LTG- FIXTURE TYPE 'C'	12
13	EXISTING	20/1	0 0			20/1	EXISTING	14
15	EXISTING	20/1		0 0		20/1	EXISTING	16
17	EXISTING	20/1			0 0	20/1	EXISTING	18
19	EXISTING	20/1	0 0			20/1	EXISTING	20
21	EXISTING	20/1		0 0		20/1	EXISTING	22
23	EXISTING	20/1			0 0	20/1	EXISTING	24
25	EXISTING	20/1	0 0			20/1	EXISTING	26
27	EXISTING	20/1		0 0		20/1	EXISTING	28
29	EXISTING	20/1			0 0	20/1	EXISTING	30
	TOTAL VA PER	14,695	14,215	13,980	TOTA	L VA THIS PANEL	42,890	

TOTAL PANEL LOAD: 42.9 kVA, 119.1 AMPS



BUILDING
ENGINEERING
SYSTEMS, LLC

MECHANICAL ELECTRICAL PLUMBING AND FIRE PROTECTION ENGINEERING 444 N. VELL STREET SUITE 501 CHCAGO, IL 60585 T (30) 356-5058 E (30) 358-5059 Will) BERGERSON REVISIONS
NAME DATE
SSUE FOR PERMIT 02.06.09

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAU ROUTES 1472 & 3569
VILLAGE OF RIVERSIDE
RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT

ELECTRICAL NOTES, RISER & SCHEDULES

SCALE: AS NOTED

DATE: FEBRUARY 6, 2009

DRAWN BY: CHECKED BY: