11-08-13 LETTING ITEM 011

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 63672		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.U. 1638 /C.H. 49 (EXCHANGE ST.)
WEST OF CRETE RD. TO COTTAGE GROVE AVE.
ROADWAY CONSTRUCTION
SECTION 05-00086-14-FP
PROJ. RS-M-9003-(112)
CRETE TOWNSHIP
WILL COUNTY
JOB C-91-094-09

FOR INDEX OF SHEETS, SEE SHEET NO. 2.

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406, SCHAUMBURG

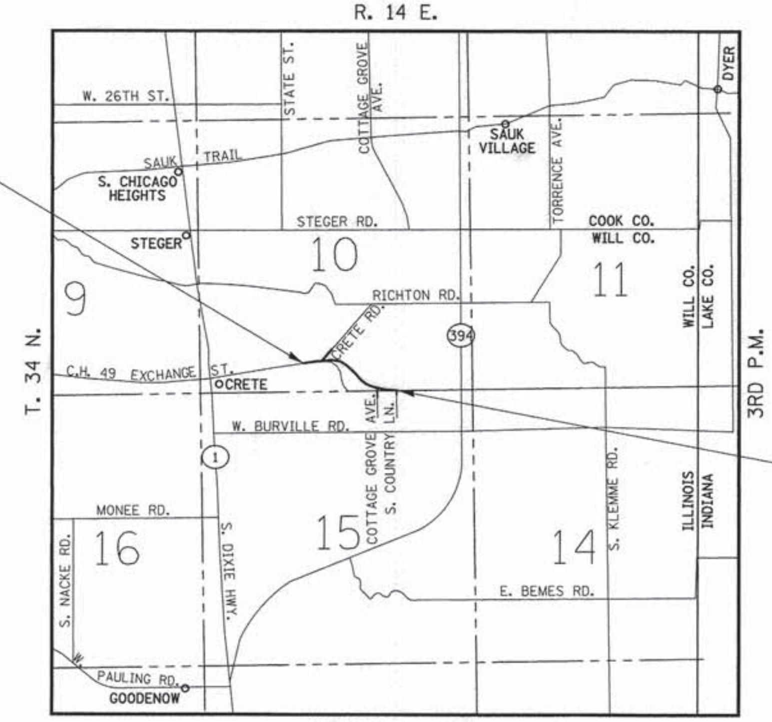
TRAFFIC DATA

DESIGN DESIGNATION:
C.H. 49 (EXCHANGE ST.) = MINOR ARTERIAL

ADT:
EXISTING
C.H. 49 (EXCHANGE ST.) = 8,000 (2007)
DESIGN
C.H. 49 (EXCHANGE ST.) = 15,150 (2030)

DESIGN SPEED:
C.H. 49 (EXCHANGE ST.) = 60 MPH

POSTED SPEED:
C.H. 49 (EXCHANGE ST.) = 45-50 MPH



CRETE TOWNSHIP

BEGIN IMPROVEMENTS
C.H. 49 (EXCHANGE ST.)
STA. 177+50.00

END IMPROVEMENTS
C.H. 49 (EXCHANGE ST.)
STA. 256+50.00

LOCATION OF SECTION INDICATED THUS:-

100' 200' 300' — 1"= 100'
10' 20' 30' — 1"= 10'
50' 100' — 1"= 50'
50' 100' — 1"= 40'
50' 100' — 1"= 30'
50' 100' — 1"= 20'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

C.H. 49 (EXCHANGE ST.) : GROSS LENGTH OF SECTION = 7900.00 LINEAL FEET = 1.50 MILES
NET LENGTH OF SECTION = 7900.00 LINEAL FEET = 1.50 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED August 16 20 13
WILL COUNTY ENGINEER

PASSED August 20 20 13
C.J. HOLT
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW August 20 20 13
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: DAN DRAPER
PROJECT MANAGER: GREGG MOUNTS

CONTRACT NO. 63672

Hutchison Engineering, Inc.
Jacksonville - Peoria - Shorewood
Since 1945
2013 JOB #2456

08/15/2013
DATE
DANIEL J. DRAPER
062-052461
REGISTERED PROFESSIONAL ENGINEER OF STATE OF ILLINOIS
EXP. 11-30-2013
SIGNATURE
ENGINEER'S SEAL

GENERAL NOTES

ALL SIGNS PER MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION. HE WILL NOT BE ALLOWED TO BUILD FIRES ON THE SITE.

THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT. SPECIFICALLY AS THEY RELATE TO THE LUMP SUM PAY ITEMS.

THE LOCATIONS OF KNOWN UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE AND DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THESE UTILITIES AND THE EXISTENCE AND LOCATION OF ANY UTILITY NOT SHOWN ON THE PLANS.

THE CONTRACTOR SHALL NOTIFY THE UTILITIES AT LEAST TEN (10) DAYS PRIOR TO ANY CONSTRUCTION IN THE AREA AND SHALL COMPLY WITH ALL RESTRICTIONS FOR EQUIPMENT MOVEMENTS AND CLEARANCES AS REGARDS TO THEIR FACILITIES.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR MUST CALL J.U.L.I.E. AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE, GAS FACILITIES, AND ALL PUBLIC UTILITIES. A 48 HOUR NOTIFICATION IS REQUIRED.

ELECTRIC	GAS	PIPELINE	TELEPHONE
COMMONWEALTH EDISON ILYAS MOHIUDDIN 25000 S. GOVERNERS HIGHWAY UNIVERSITY PARK, IL. 60466-4100 (708) 235-2692 ((815) 641-8562 cell	NICOR GAS MS. CONNIE LANE 1844 FERRY RD. NAPERVILLE, IL. 60563 (630) 388-3830	WOLVERINE PIPELINE COMPANY MR. SCOTT SMITH 14963 S. NEW AVE. LOCKPORT, IL 60441 (815) 325-5357	AT&T MR. STEVE PESOLA 1000 COMMERCE DR. FLOOR 1 OAKBROOK, IL. 60523 (630) 573-5703
CABLE T.V.	**WATER & SEWER**	BP PIPELINES (NORTH AMERICA) INC.	
COMCAST CABLE COMMUNICATIONS MS. MARTHA GIERAS 688 INDUSTRIAL DR. ELMHURST, IL. 60126 (630) 600-6352	VILLAGE OF CRETE MR. THOMAS J. DURKIN VILLAGE ADMINISTRATOR 524 W. EXCHANGE ST. CRETE, IL. 60417 (708) 672-5479	MR. GARY WHITE (FIELD REP.) 28100 TORCH PKWY. WARRENVILLE, IL. 60555-3958 MOBILE: (815)-999-2857	

THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWER AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR WILL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE.

NECESSARY WATER AND SANITARY SEWER UTILITY RELOCATIONS INCLUDED IN THIS CONTRACT. ALL OTHER UTILITY RELOCATIONS WILL BE BY OTHERS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

THE THICKNESS OF HOT-MIX ASPHALT MIXTURES SHOWN ON THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACE OR BASES ON WHICH THE HOT-MIX ASPHALT MIXTURE IS TO BE PLACED.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.

IF ANY LOOSE MATERIAL IS DEPOSITED DURING CONSTRUCTION OPERATIONS IN THE FLOW LINE OF DITCHES, GUTTERS OR DRAINAGE STRUCTURES SO THAT IT RESTRICTS THE NATURAL FLOW OF WATER, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SO AFFECTED SHALL BE FREE FROM ALL DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THIS CONTRACT.

ALL FRAMES, GRATES, SIGNS, FENCES AND DELINEATORS, NEW OR EXISTING, DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

EXISTING PAVEMENT, DRIVEWAY PAVEMENT, AND EXISTING DRAINAGE STRUCTURES NOT INCLUDED IN THE PLANS FOR REMOVAL, BUT DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.

ALL SCHOOL DISTRICTS, LOCAL POLICE DEPARTMENTS AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION.

DEER CREEK CHRISTIAN SCHOOL	708-672-6515
ILLINOIS LUTHERAN HIGH SCHOOL	708-672-3262
ILLINOIS LUTHERAN ELEMENTARY SCHOOL	708-672-5850
WILL COUNTY SHERRIFF'S DEPT.	815-727-8575
CRETE TOWNSHIP HIGHWAY DEPT.	708-672-7732
U.S. POSTAL SERVICE, CRETE, IL	708-672-8571
STEGER ESTATES FIRE PROT. DIST.	708-748-4816
CRETE-MONEE SCHOOL DIST. 201-U	708-367-2500
CRETE TOWNSHIP FIRE PROT. DIST.	708-672-3111
VILLAGE OF CRETE	708-672-5431

WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

ALL EXISTING GRANULAR MATERIAL AND HOT-MIX ASPHALT MATERIALS TO BE REMOVED AND NOT PAID AS A SPECIFIC ITEM SHALL BE CONSIDERED EARTH EXCAVATION AND WILL BE PAID FOR AT THE UNIT PRICE FOR EARTH EXCAVATION. THE CONTRACTOR WILL HAVE THE OPTION OF REMOVING THE EXISTING HOT-MIX ASPHALT MATERIAL BY GRINDING OR EXCAVATING THE MATERIAL. IF THE HOT-MIX ASPHALT MATERIAL IS REMOVED BY EXCAVATION, NO SUCH MATERIAL MAY BE USED IN EMBANKMENT AREAS UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER.

THE CONTRACTOR SHALL NOT CROSS COMPLETED SUB-GRADE, BASE COURSE AND / OR EXISTING PAVEMENTS, NOT SCHEDULED TO BE REMOVED, WITH LOADED SCRAPERS.

UTILITY POLES, PEDESTALS, AND MANHOLES SHALL NOT BE DISTURBED BY THE CONTRACTOR. FINISHING AROUND THESE POLES, PEDESTALS, AND MANHOLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

HOT-MIX ASPHALT SURFACE COURSE SHALL NOT BE PLACED UNTIL ALL EARTH EXCAVATION, TOP SOIL PLACEMENT, AGGREGATE BASE COURSE, AND HOT-MIX ASPHALT BINDER COURSE HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER.

FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.

ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED AND CONNECTED TO PROPOSED DRAINAGE STRUCTURES, SEWERS OR DITCHES AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID IN ACCORDANCE WITH ARTICLE 109.04.

THE CROSS SECTIONS INDICATE THE FINISHED GRADE OF TOPSOIL.

TOPSOIL SHALL NOT BE STOCKPILED WITHIN THE LIMITS OF CONSTRUCTION. THE LOCATIONS OF TOPSOIL TO BE STOCKPILED WITHIN THE RIGHT-OF-WAY MUST BE APPROVED BY THE ENGINEER.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05 TONS/CU YD	
BITUMINOUS MATERIALS PRIME COAT	0.08 GAL/SQ YD OR 0.375 GAL/SQ YD	
AGGREGATE PRIME COAT	0.002 TONS/SQ YD.	
HOT-MIX ASPHALT SURFACE COURSE	112 LBS/SQ YD/INCH	
HOT-MIX ASPHALT BINDER COURSE	112 LBS/SQ YD/INCH	
NITROGEN FERTILIZER NUTRIENT	60 LBS/ACRE (SODDING)	90 LBS/ACRE (SEEDING)
PHOSPHOROUS FERTILIZER NUTRIENT	60 LBS/ACRE (SODDING)	90 LBS/ACRE (SEEDING)
POTASSIUM FERTILIZER NUTRIENT	60 LBS/ACRE (SODDING)	90 LBS/ACRE (SEEDING)
SHORT TERM PAVEMENT MARKING	10 FT/100 FT OF FINAL APPLICATION	
LEVELING BINDER (MACHINE METHOD)	112 LBS/SQ YD/INCH	
MULCH	2 TONS/ACRE	

WCDH GENERAL NOTES

ALL EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REMOVED AND ADEQUATELY BACKFILLED (NO COLD PATCH) PRIOR TO PLACING THE ASPHALT LEVELING BINDER AND SURFACE COURSE.

ALL POTHOLES AND OTHER AREAS NEEDING PATCHING IN THE EXISTING PAVEMENT MUST BE COMPLETED BY THE APPLICANT'S CONTRACTOR PRIOR TO PLACEMENT OF THE LEVELING BINDER

ALL COUNTY ROW MONUMENTATION (BOUNDARY CORNERS) SHALL BE ACCORDING TO ARTICLE 1.7.13 OF THE PERMIT REGULATIONS UTILIZING THE "WCDH MONUMENTATION STANDARD".

EXCAVATION AND PAVEMENT WIDENING ON BOTH SIDES OF THE PAVEMENT AT ANY ONE LOCATION AT THE SAME TIME WILL NOT BE PERMITTED PER ARTICLE 701.08 OF THE IDOT SPECS.

PORTABLE/CHANGEABLE ELECTRONIC MESSAGE BOARDS SHALL BE USED IN ADVANCE OF THE PROJECT ACCORDING TO IDOT STANDARDS AND SHALL BE IN PLACE A MINIMUM OF 72 HOURS PRIOR TO COMMENCING THE WORK AND REMAIN THROUGHOUT THE ROADWAY CONSTRUCTION WORK.

ALL CONSTRUCTION MATERIALS WITHIN THE COUNTY ROW MUST BE IDOT CERTIFIED. DOCUMENTATION OF MATERIAL CERTIFICATION SHALL BE SUBMITTED PRIOR TO WCDH APPROVAL. ALL CONSTRUCTION MATERIAL NEEDING INSPECTION SHALL BE DONE ACCORDING TO THE LATEST IDOT PROJECT AND PROCEDURES GUIDE.

A PROOF ROLL OF THE SUBGRADE IS REQUIRED PRIOR TO PLACING THE AGGREGATE SUB-BASE AND MUST BE OBSERVED BY A CERTIFIED TESTING COMPANY. NOTIFY THE COUNTY PRIOR TO DOING THE PROOF ROLL.

THE RESIDENT ENGINEER SHALL PROVIDE WCDH A LIST OF MATERIALS USED AND IDENTIFY THEIR ASSOCIATED IDOT CERTIFICATION, SHALL PROVIDE WCDH WITH A COPY OF ALL MATERIAL TESTING COMPANY RESULTS, SHALL SIGN AND PROVIDE WCDH ON A WEEKLY BASIS WEEKLY FIELD REPORTS UTILIZING THE APPROPRIATE IDOT FORM, SHALL SUBMIT TO WCDH A CERTIFICATION LETTER THAT CERTIFIES COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.

RECORD DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH WCDH REQUIREMENTS AND SHALL BE SUBMITTED IN ELECTRONIC FORMAT.

ALL CONSTRUCTION TO BE ACCORDING TO IDOT DESIGN AND STANDARD SPECIFICATIONS, MUST ADHERE TO THE WILL COUNTY DEPARTMENT OF HIGHWAYS PERMIT REGULATIONS AND ACCESS CONTROL REGULATIONS, AND SHALL FOLLOW THE LATEST WILL COUNTY STORM WATER MANAGEMENT ORDINANCE AND WILL COUNTY WATER RESOURCE ORDINANCE AT ALL TIMES.

ALL DISTURBED GROUND WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE RE-SEEDED (CLASS 2A), FERTILIZED, AND EXCELSIOR BLANKET INSTALLED TO THE SATISFACTION OF THE WILL COUNTY DEPARTMENT OF HIGHWAYS.

VERTICAL HEADWALLS, DECORATIVE SIGNING, PLANTINGS, SHRUBBERY, AND TREES ARE PROHIBITED INSIDE THE COUNTY RIGHT-OF-WAY.

THE WILL COUNTY DEPARTMENT OF HIGHWAYS MUST BE NOTIFIED AT 815-727-8476 A MINIMUM OF TWO (2) WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION WITHIN THE COUNTY RIGHT-OF-WAY.

THE WILL COUNTY DEPARTMENT OF HIGHWAYS SHALL NOT BE HELD LIABLE FOR ANY ERRORS OR OMISSIONS IN THESE ENGINEERING PLANS AND SPECIFICATIONS OR FOR ANY ADDITIONAL WORK THAT MAY BE NEEDED DUE TO ERRORS OR OMISSIONS IN THESE ENGINEERING PLANS.

INDEX OF SHEETS

LIST OF STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542001-03	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 MM) THRU 84" (2100 MM) DIAMETER
542006	MULTIPLE CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (376MM) THRU 84" (2100 MM) DIAMETER
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-04	TRAVERSABLE PIPE GRATE
542401-01	METAL END SECTION FOR PIPE CULVERTS
542606-02	REINFORCED CONCRETE PIPE TEE
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602301-03	INLET, TYPE A
602306-03	INLET, TYPE B
602401-03	MANHOLE, TYPE A
602416-03	MANHOLE, TYPE A, 8' (2.4 M) DIAMETER
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS, TYPE 1
604036-02	GRATE, TYPE 8
604041-02	FRAME AND GRATE, TYPE 9
604051-03	FRAME AND GRATE, TYPE 11
604071-04	FRAME AND GRATE, TYPE 20
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606101-04	TYPE A GUTTER (INLET, OUTLET, AND ENTRANCE)
630001-10	STEEL PLATE BEAM GUARDRAIL
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
665001-02	WOVEN WIRE FENCE
666001-01	RIGHT-OF-WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-04	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-03	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-7	TYP. APPL. OF T.C.D. FOR RURAL LOC. HWYS. (2-LANE 2 WAY RURAL TRAFF.) (RD. CLOSED TO THRU TRAFF.)
BLR 24-2	MAILBOX TURNOUT FOR LOCAL ROADS

LEGEND

X	TREE (TO BE REMOVED)
EQRS	EQUIVALENT ROUND-SIZE
	PROPOSED DITCH FLOW
	EXISTING WETLAND AREAS
	EXISTING PAVEMENT REMOVAL (AREAS NOT TO BE REPLACED)
	PROPOSED AGGREGATE ENTRANCE
	PROPOSED HOT-MIX ASPHALT ENTRANCE & MAILBOX TURNOUT

FILE NAME = V:\2456\2456g001.dgn	USER NAME = smountel	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/28/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.)
INDEX OF SHEETS, LIST OF STANDARDS, GENERAL NOTES AND LEGEND

SCALE: N/A | SHEET NO. 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	2
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

ITEM NO.	SPECIALTY ITEM &/OR SPECIAL PROVISION	CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
						STP 0004	LOCAL 0004
1		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	57		57
2		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	222		222
3		20100500	TREE REMOVAL, ACRES	ACRE	5.1		5.1
4	SP	20200100	EARTH EXCAVATION	CU YD	70271	70271	
5		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	16032	16032	
6		20700220	POROUS GRANULAR EMBANKMENT	CU YD	162	162	
7		20800150	TRENCH BACKFILL	CU YD	763	763	
8		21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	7765	7765	
9		21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	8940	8940	
10		25000210	SEEDING, CLASS 2A	ACRE	14.4	14.4	
11		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1296	1296	
12		25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1296	1296	
13		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1296	1296	
14		25100115	MULCH, METHOD 2	ACRE	29.2	29.2	
15		25100630	EROSION CONTROL BLANKET	SQ YD	3891	3891	
16		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	5908	5908	
17	BDE	28000305	TEMPORARY DITCH CHECKS	FOOT	2858	2858	
18		28000400	PERIMETER EROSION BARRIER	FOOT	2236	2236	
19		28000500	INLET AND PIPE PROTECTION	EACH	28	28	
20		28100105	STONE RIPRAP, CLASS A3	SQ YD	190	190	
21		28100107	STONE RIPRAP, CLASS A4	SQ YD	418	418	
22		28100109	STONE RIPRAP, CLASS A5	SQ YD	125	125	
23		28200200	FILTER FABRIC	SQ YD	757	757	
24		30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	1067		1067
25		30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	42045		42045
26		31101900	SUBBASE GRANULAR MATERIAL, TYPE C	TON	3950		3950
27		35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	5294		5294
28		35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	1126		1126
29		35400400	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 9"	SQ YD	61		61
30		40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	651		651
31	SP	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	786		786
32		40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	15763		15763
33		40600300	AGGREGATE (PRIME COAT)	TON	57		57
34		40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	157		157
35		40600895	CONSTRUCTING TEST STRIP	EACH	2		2
36		40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	911		911
37		40701801	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"	SQ YD	3840		3840
38		40701941	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13"	SQ YD	25132		25132
39		40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	199		199
40		42001300	PROTECTIVE COAT	SQ YD	476		476
41		44000100	PAVEMENT REMOVAL	SQ YD	14930		14930
42		44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	9834		9834
43	SP	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	790		790
44		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	485		485
45		48101200	AGGREGATE SHOULDERS, TYPE B	TON	442		442
46		48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	13941		13941
47	SP	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
48	SP	50105220	PIPE CULVERT REMOVAL	FOOT	696	696	
49		50800105	REINFORCEMENT BARS	POUND	63510	63510	
50		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	180	180	
51		51500100	NAME PLATES	EACH	1	1	
52		54003000	CONCRETE BOX CULVERTS	CU YD	340.9	340.9	
53		542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	124	124	
54		542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	194	194	
55		542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	96	96	
56		542A1060	PIPE CULVERTS, CLASS A, TYPE 2 15"	FOOT	44	44	
57	SP	542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	130	130	
58	SP	542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	270	270	
59	SP	542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	170	170	
60	SP	542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	86	86	
61		54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	4	4	
62		54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4	4	
63		54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1	
64		54213870	STEEL END SECTIONS 15"	EACH	6	6	
65		54213873	STEEL END SECTIONS 18"	EACH	10	10	
66		54213879	STEEL END SECTIONS 24"	EACH	6	6	
67		54213885	STEEL END SECTIONS 30"	EACH	2	2	
68		54260311	TRAVERSABLE PIPE GRATE	FOOT	103	103	
69		54261415	CONCRETE END SECTION, STANDARD 542001, 15", 1:4	EACH	6	6	
70		54262430	CONCRETE END SECTION, STANDARD 542006, 30", 1:4	EACH	4	4	
71		550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	250	250	
72		550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	504	504	
73	SI, SP	56103300	DUCTILE IRON WATER MAIN 12"	FOOT	2875		2875
74	SI, SP	56109210	WATER VALVES TO BE ADJUSTED	EACH	3		3
75	SI	56200300	WATER SERVICE LINE 1"	FOOT	804		804
76	SI,SP	56400500	FIRE HYDRANTS TO BE REMOVED	EACH	5		5
77	SI	56400600	FIRE HYDRANTS	EACH	5		5
78		60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	10		10
79		60100915	PIPE DRAINS 6"	FOOT	397	397	
80		60100925	PIPE DRAINS 8"	FOOT	402	402	

SP=SPECIAL PROVISION SI=SPECIALITY ITEM BDE=BUREAU OF DESIGN AND ENVIRONMENT GBSP=GUIDE BRIDGE SPECIAL PROVISION

FILE NAME = v:\2456\2456g01.dgn

USER NAME = smountal | PLOT SCALE = 1.000 ' / in. | PLOT DATE = 8/28/2013

DESIGNED - | DRAWN - | CHECKED - | DATE -

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.)
SUMMARY OF QUANTITIES

SCALE: N/A | SHEET NO. 1 OF 2 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	3
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

ITEM NO.	SPECIALTY ITEM &/OR SPECIAL PROVISION	CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
						STP 0004	LOCAL 0004
81		60100935	PIPE DRAINS 10"	FOOT	395	395	
82		60107600	PIPE UNDERDRAINS 4"	FOOT	2900		2900
83		60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	280		280
84		60219100	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 9 FRAME AND GRATE	EACH	2	2	
85		60219510	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 20 FRAME AND GRATE	EACH	1	1	
86		60221800	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 9 FRAME AND GRATE	EACH	1	1	
87		60222210	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 20 FRAME AND GRATE	EACH	1	1	
88		60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	3	3	
89		60238305	INLETS, TYPE A, WITH MEDIAN INLET (604101)	EACH	1	1	
90		60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	1	1	
91		60240310	INLETS, TYPE B, TYPE 11 FRAME AND GRATE	EACH	1	1	
92		60240366	INLETS, TYPE B, WITH MEDIAN INLET (604106)	EACH	1	1	
93		60255500	MANHOLES TO BE ADJUSTED	EACH	2	2	
94		60600095	CLASS SI CONCRETE (OUTLET)	CU YD	8.4		8.4
95		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	833		833
96		61100605	MISCELLANEOUS CONCRETE	CU YD	8		8
97		61101007	STORM SEWERS PROTECTED, CLASS A, 6"	FOOT	798		798
98		61101009	STORM SEWERS PROTECTED, CLASS A, 8"	FOOT	803		803
99		61101011	STORM SEWERS PROTECTED, CLASS A, 10"	FOOT	796		796
100		61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	8		8
101		61139900	STORM SEWERS (SPECIAL), 6"	FOOT	593		593
102		61140000	STORM SEWERS (SPECIAL), 8"	FOOT	598		598
103		61140100	STORM SEWERS (SPECIAL), 10"	FOOT	596		596
104	SI	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	50		50
105	SI	66500105	WOVEN WIRE FENCE, 4'	FOOT	3068		3068
106	SI	66502000	WOVEN WIRE GATES, 4' X 24' DOUBLE	EACH	1		1
107		66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	43		43
108		66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	6		6
109		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	20		20
110		67100100	MOBILIZATION	L SUM	1		1
111		70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	190		190
112	SP	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	45		45
113		70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	110		110
114		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	41815		41815
115		70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	480		480
116		70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	983		983
117		70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	155		155
118		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	15581		15581
119	SI	72000100	SIGN PANEL - TYPE 1	SQ FT	221.9		221.9
120	SI	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	22		22
121	SI	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	6		6
122	SI	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	436		436
123	SI	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	110		110
124	SI	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	41815		41815
125	SI	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	480		480
126	SI	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	983		983
127	SI	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	155		155
128	SP, SI	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	241		241
129		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	199		199
130	SP	X0326337	DRAINAGE CONTROL STRUCTURE	EACH	3	3	
131	SP	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1304		1304
132	SI, SP	X5610700	WATER MAIN REMOVAL	FOOT	2614		2614
133	SP	X6062700	CONCRETE GUTTER, TYPE A (SPECIAL)	FOOT	715		715
134	SP	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1
135	SP	Z0013200	CONCRETE REFERENCE MARKERS	EACH	18		18
136	BDE	Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
137	SP	Z0016702	DETOUR SIGNING	L SUM	1		1
138	SP	Z0019600	DUST CONTROL WATERING	UNIT	143	143	
139	GBSP	Z0026407	TEMPORARY SHEET PILING	SQ FT	1482	1482	
140	SP	Z0056612	STORM SEWER (WATER MAIN REQUIRMENTS) 18 INCH	FOOT	182	182	
141	SP	Z0056616	STORM SEWER (WATER MAIN REQUIRMENTS) 24 INCH	FOOT	88	88	
142	SP	Z0064505	SECTION CORNER MARKERS	EACH	1		1
143	BDE	Z0076600	TRAINEES	HOUR	1500	*	1500**
144	SP	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1500	*	1500**

SP=SPECIAL PROVISION SI=SPECIALITY ITEM BDE=BUREAU OF DESIGN AND ENVIRONMENT GBSP=GUIDE BRIDGE SPECIAL PROVISION

*CONSTRUCTION TYPE CODE STP 0042
**CONSTRUCTION TYPE CODE LOCAL 0042

FILE NAME = vr\2456\2456q002.dgn

USER NAME = smountsl | PLOT SCALE = 1.000 ' / in. | PLOT DATE = 8/28/2013

DESIGNED - | DRAWN - | CHECKED - | DATE -

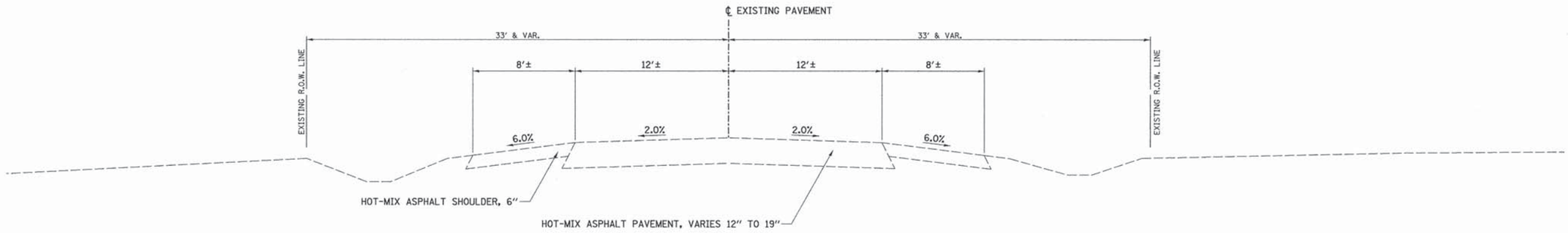
REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.)
SUMMARY OF QUANTITIES

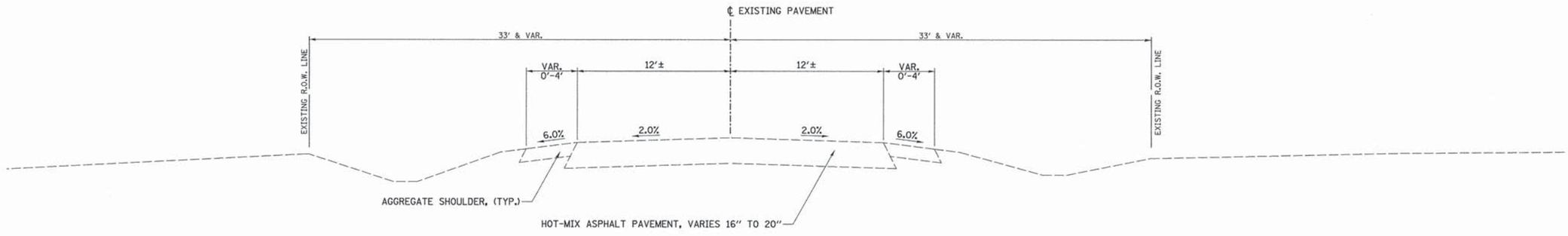
SCALE: N/A | SHEET NO. 2 OF 2 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	4
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION
C.H. 49 (EXCHANGE ST.)

STA. 170+00± TO STA. 181+90±



EXISTING TYPICAL SECTION
C.H. 49 (EXCHANGE ST.)

STA. 181+90± TO STA. 200+00±
STA. 249+00± TO STA. 256+50±

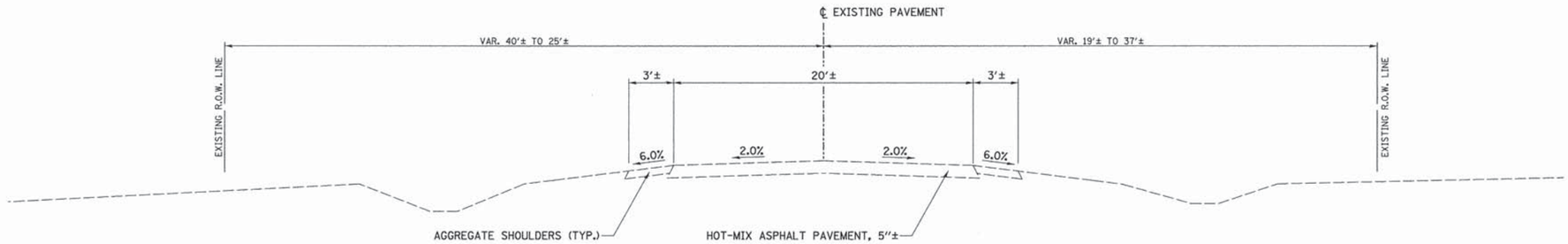
FILE NAME = V:\2456\2456ø01.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 4.2358 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.), EXISTING TYPICAL SECTIONS

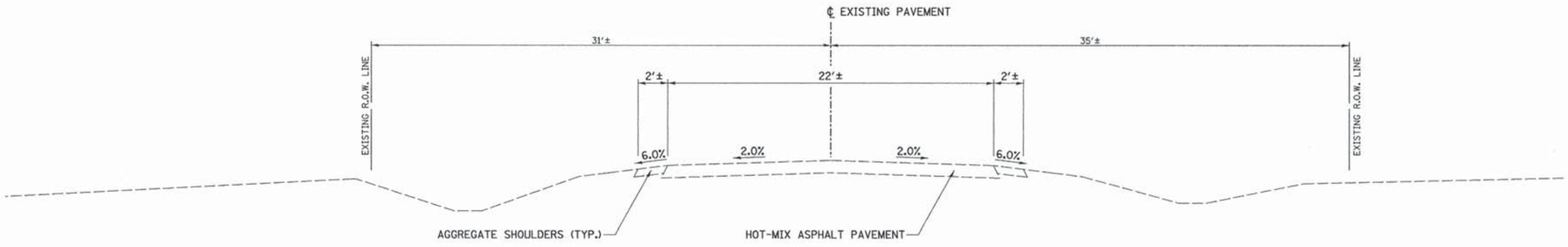
SCALE: N/A | SHEET NO. 1 OF 8 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	5
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



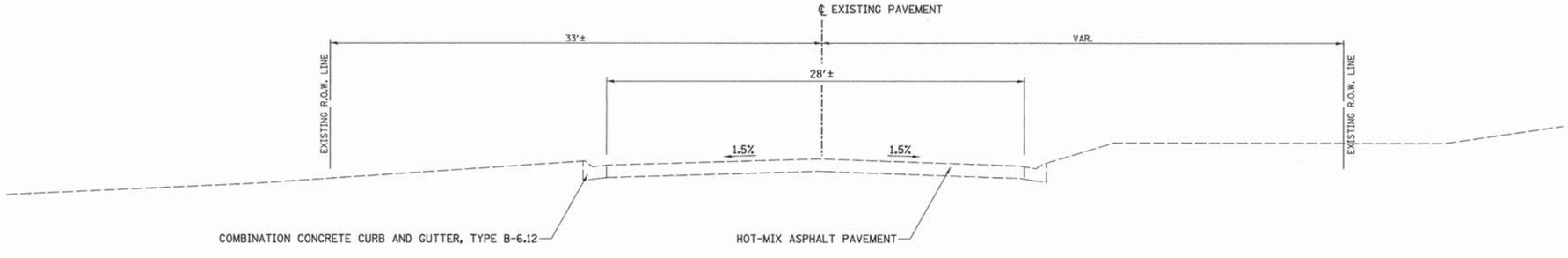
EXISTING TYPICAL SECTION
CRETE RD.

STA. 300+00± TO STA. 310+00± (OLD CRETE RD.)
STA. 505+00± TO STA. 508+50± (NEW CRETE RD.)



EXISTING TYPICAL SECTION
COTTAGE GROVE AVE.

STA. 602+77± TO STA. 604+50±



EXISTING TYPICAL SECTION
MERIONETH DR.

STA. 701+08± TO STA. 702+50±

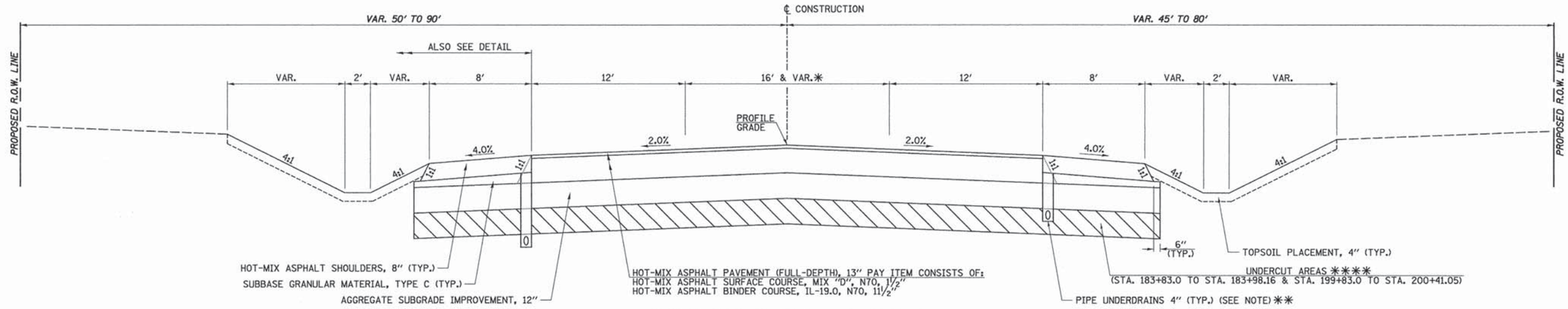
FILE NAME = V:\2456\2456t002.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 4.2350 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 8/28/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CRETE RD., COTTAGE GROVE RD. & MERIONETH DR.
EXISTING TYPICAL SECTIONS

SCALE: N/A | SHEET NO. 2 OF 8 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	6
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION
C.H. 49 (EXCHANGE ST.)

STA. 177+50.00 TO STA. 183+98.16
STA. 192+18.25 TO STA. 200+41.05
STA. 253+40.08 TO STA. 254+50.00

C.H. 49 (EXCHANGE ST.) STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC (S.D.T.) YEAR 2022

PV = 11,397 SU = 633 MU = 633

CLASS II ROAD
SUB-GRADE SUPPORT RATING: POOR
PERCENT OF S.D.T. IN DESIGN LANE: 50%

TRAFFIC FACTOR = 3.17

PAVEMENT STRUCTURE MATERIALS RECONSTRUCTION:

SURFACE COURSE TYPE:	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
BASE COURSE TYPE:	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 11½"
SUB-BASE TYPE:	AGGREGATE SUBGRADE IMPROVEMENT, 12"

NOTE:
UNDERDRAINS SHALL BE PLACED 6" BELOW BOTTOM OF AGGREGATE SUBGRADE IMPROVEMENT.

✱ FROM STA. 192+59.62 TO STA. 196+59.62
PAVEMENT WIDTH VARIES FROM 0' TO 16'.

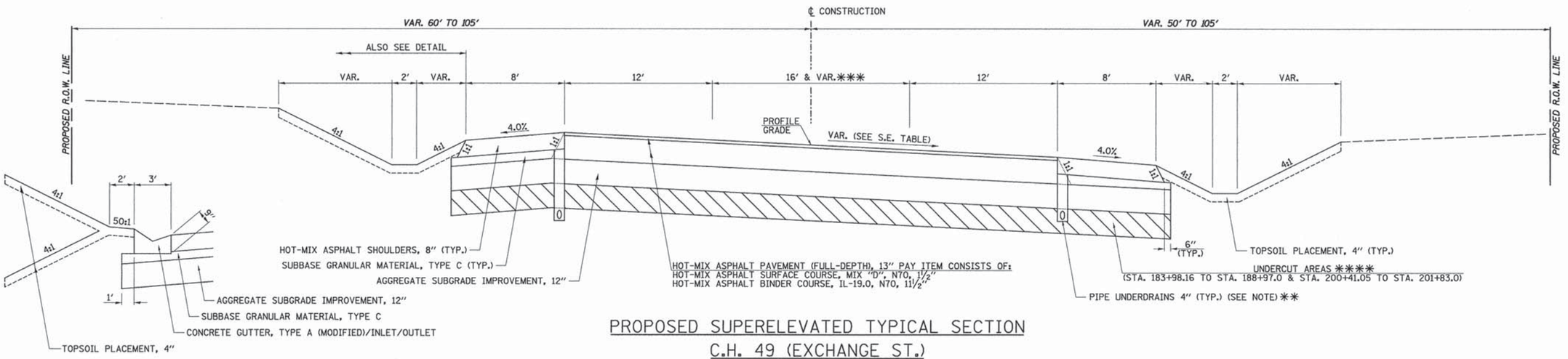
✱✱ STA. 177+50.0 TO STA. 178+50.0 (LT. & RT.)
STA. 183+83.0 TO STA. 188+97.0 (LT. & RT.)
STA. 193+08.9 TO STA. 195+08.9 (LT. & RT.)
STA. 199+83.0 TO STA. 201+83.0 (LT. & RT.)
STA. 211+79.4 TO STA. 213+79.4 (RT.)
STA. 252+63.7 TO STA. 254+50.0 (LT.)

✱✱✱ FROM STA. 206+69.98 TO STA. 210+69.98
PAVEMENT WIDTH VARIES FROM 16' TO 0'.

✱✱✱✱ UNDERCUT AREAS WILL REQUIRE REMOVAL OF UNSTABLE SUBGRADE MATERIAL AND REPLACEMENT WITH MATERIAL MEETING THE REQUIREMENTS OF THE AGGREGATE SUBGRADE IMPROVEMENT SPECIAL PROVISION. THIS MATERIAL BELOW THE AGGREGATE SUBGRADE IMPROVEMENT, 12" LAYER WILL BE MEASURED BY THE CUBIC YARD AND PAID FOR AS AGGREGATE SUBGRADE IMPROVEMENT.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5); 1-1/2"	4% @ 70 GYR
LEVELING BINDER MACHINE (MACHINE METHOD), IL-4.75, N70; 3/4" MIN	4% @ 70 GYR
FULL DEPTH PAVEMENT - MAINLINE	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5); 1-1/2"	4% @ 70 GYR
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70; 4 LIFTS, 2-1/4" MIN.	4% @ 70 GYR
FULL DEPTH PAVEMENT - SIDE ROADS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5); 1-1/2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70; 2 LIFTS, 2-1/4" MIN.	4% @ 50 GYR
SHOULDERS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5); 1-1/2"	4% @ 70 GYR
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19.0); 2-1/4" MIN	4% @ 50 GYR
DRIVEWAYS - INCIDENTAL HOT-MIX ASPHALT SURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 OR IL-12.5); 1-1/2" OR 2-1/2"	4% @ 50 GYR

NOTES:
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
THE "AC TYPE" FOR HMA MIXES SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT 1 SPECIAL PROVISIONS.
FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.



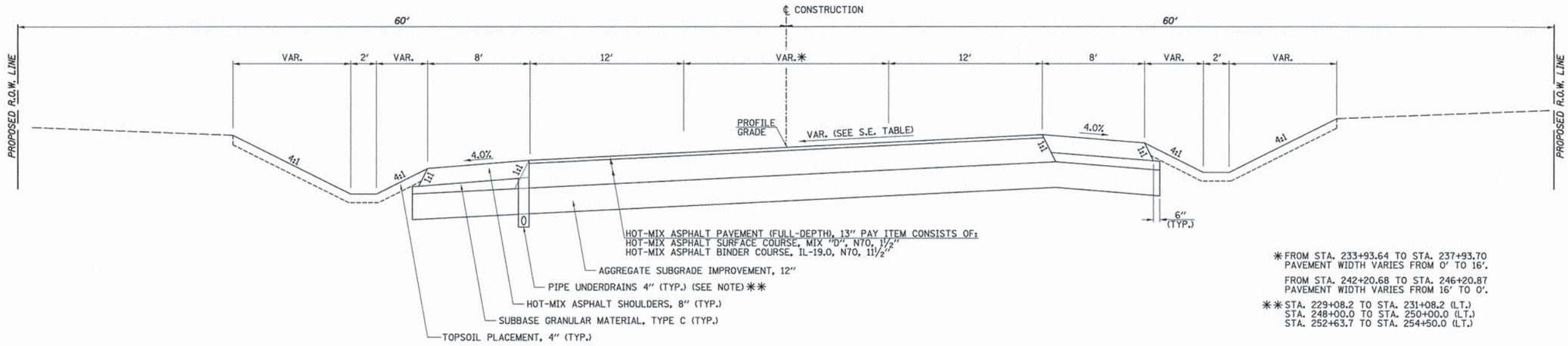
DETAIL

STA. 188+28 TO STA. 191+50 (LT.)
STA. 194+45 TO STA. 199+60 (LT.)

PROPOSED SUPERELEVATED TYPICAL SECTION
C.H. 49 (EXCHANGE ST.)

STA. 183+98.16 TO STA. 192+18.25
STA. 200+41.05 TO STA. 227+40.47

FILE NAME = V:\2456\2456t003.dgn	USER NAME = smountal	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**C.H. 49 (EXCHANGE ST.), PROPOSED TYPICAL SECTIONS**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			1638	05-00086-14-FP	WILL	124	7
	PLOT SCALE = 4.2350 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 63672		
	PLOT DATE = 8/28/2013	DATE -	REVISED -		SCALE: N/A SHEET NO. 3 OF 8 SHEETS STA. N/A TO STA. N/A	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



*FROM STA. 233+93.64 TO STA. 237+93.70
PAVEMENT WIDTH VARIES FROM 0' TO 16'.

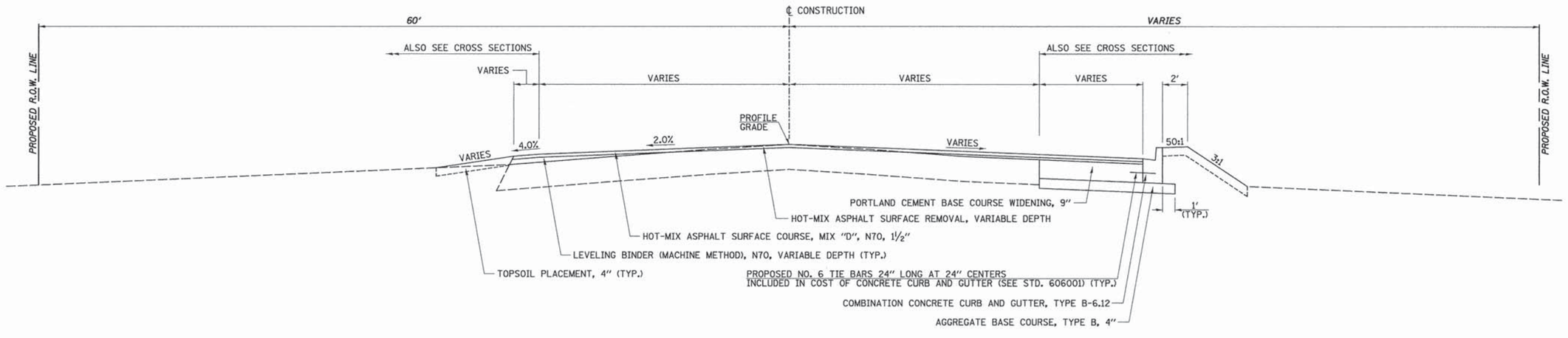
FROM STA. 242+20.68 TO STA. 246+20.87
PAVEMENT WIDTH VARIES FROM 16' TO 0'.

**STA. 229+08.2 TO STA. 231+08.2 (LT.)
STA. 248+00.0 TO STA. 250+00.0 (LT.)
STA. 252+63.7 TO STA. 254+50.0 (LT.)

PROPOSED SUPERELEVATED TYPICAL SECTION
C.H. 49 (EXCHANGE ST.)

STA. 227+40.47 TO STA. 253+40.08

NOTE: UNDERDRAINS SHALL BE PLACED 6" BELOW BOTTOM OF AGGREGATE SUBGRADE IMPROVEMENT.



PROPOSED TYPICAL SECTION
C.H. 49 (EXCHANGE ST.)

STA. 254+50.00 TO STA. 256+50.00

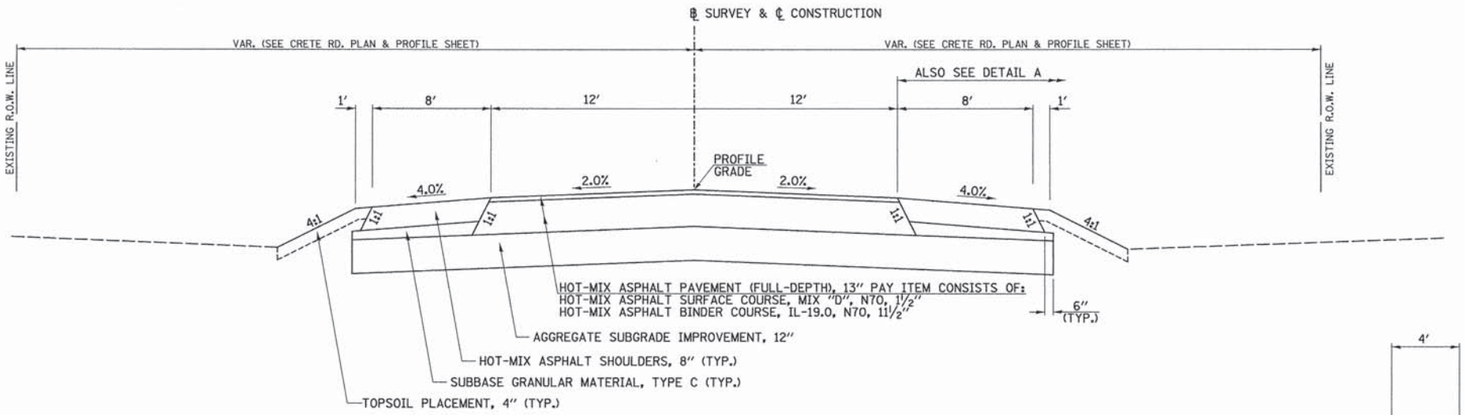
FILE NAME = V:\2456\2456ø04.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 4.2350 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.), PROPOSED TYPICAL SECTIONS

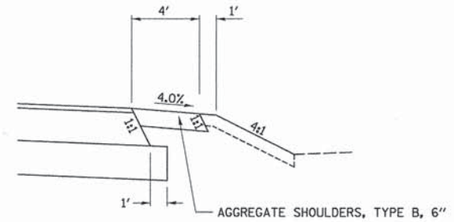
SCALE: N/A | SHEET NO. 4 OF 8 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	8
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



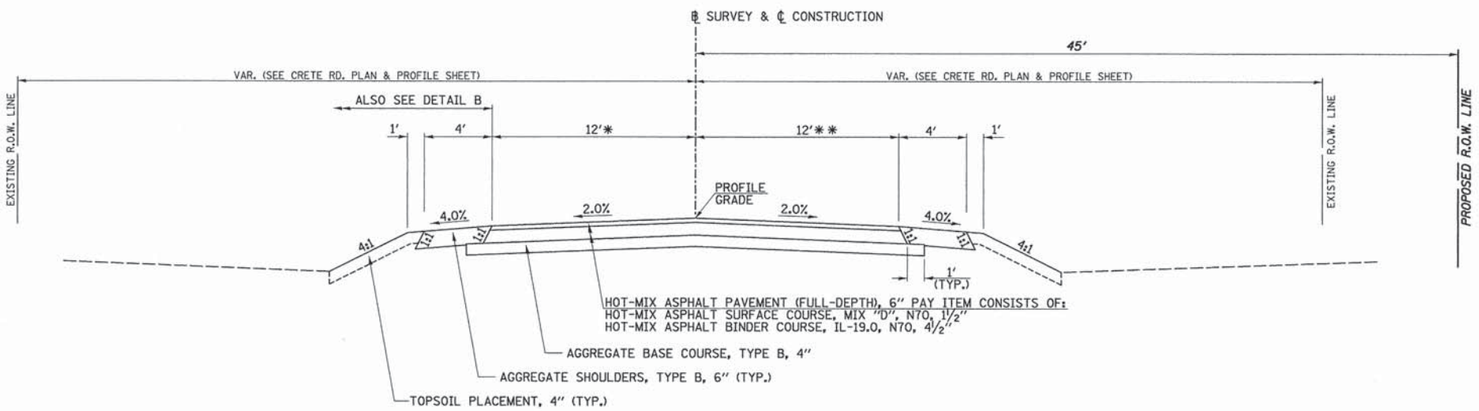
PROPOSED TYPICAL SECTION
CRETE RD.

STA. 500+00.00 TO STA. 501+02.10



DETAIL A

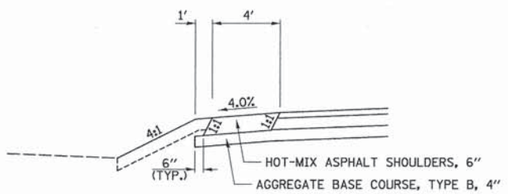
STA. 500+89.30 TO STA. 501+02.10



PROPOSED TYPICAL SECTION
CRETE RD.

STA. 501+02.10 TO STA. 506+50.00

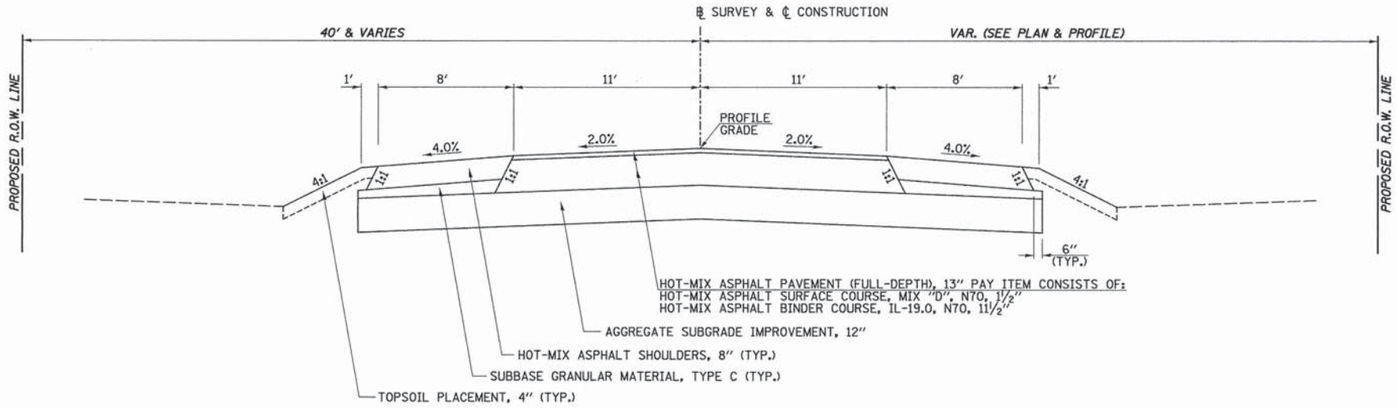
* VARIES FROM 12′ @ STA. 506+05.73 TO 10.08′ @ STA. 506+50.00.
** VARIES FROM 12′ @ STA. 506+05.73 TO 10.44′ @ STA. 506+50.00.



DETAIL B

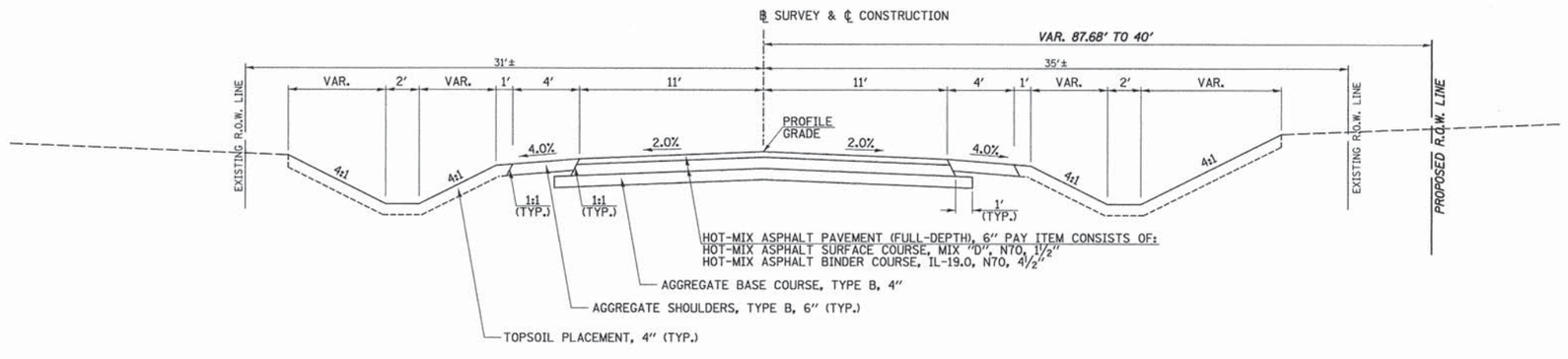
STA. 502+02.20 TO STA. 502+37.30

FILE NAME = V:\2456\2456t005.dgn	USER NAME = smountsl	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**CRETE RD. PROPOSED TYPICAL SECTIONS**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			1638	05-00086-14-FP	WILL	124	9
	PLOT SCALE = 4.2350 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 63672		
	PLOT DATE = 8/27/2013	DATE -	REVISED -		SCALE: N/A SHEET NO. 5 OF 8 SHEETS STA. N/A TO STA. N/A	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION
COTTAGE GROVE AVE.

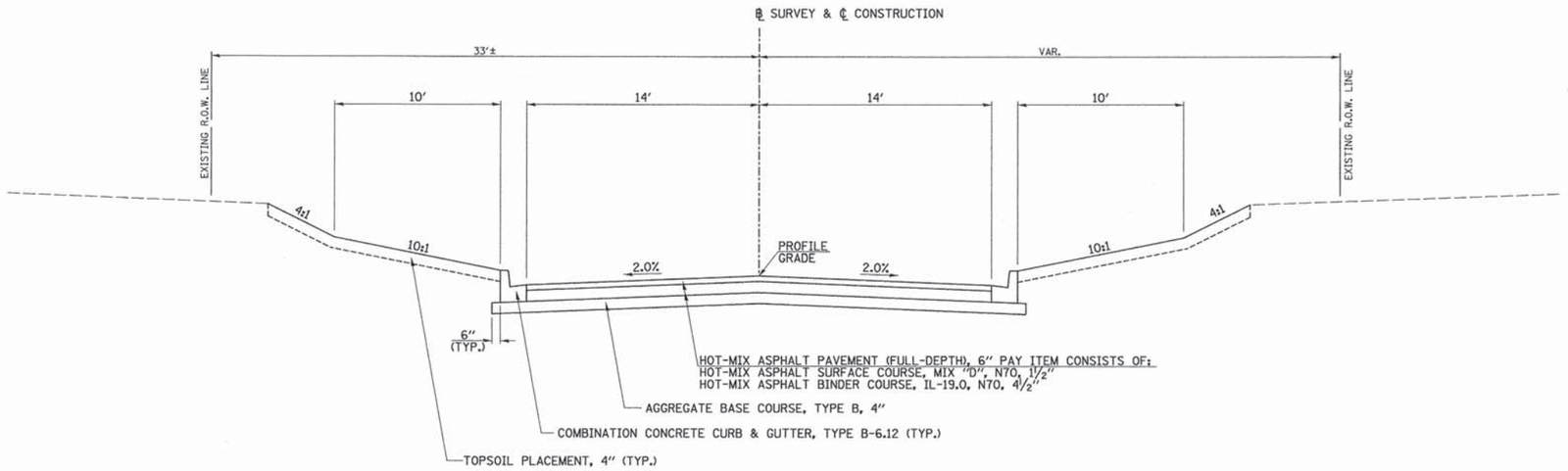
STA. 600+00.00 TO STA. 600+88.30



PROPOSED TYPICAL SECTION
COTTAGE GROVE AVE.

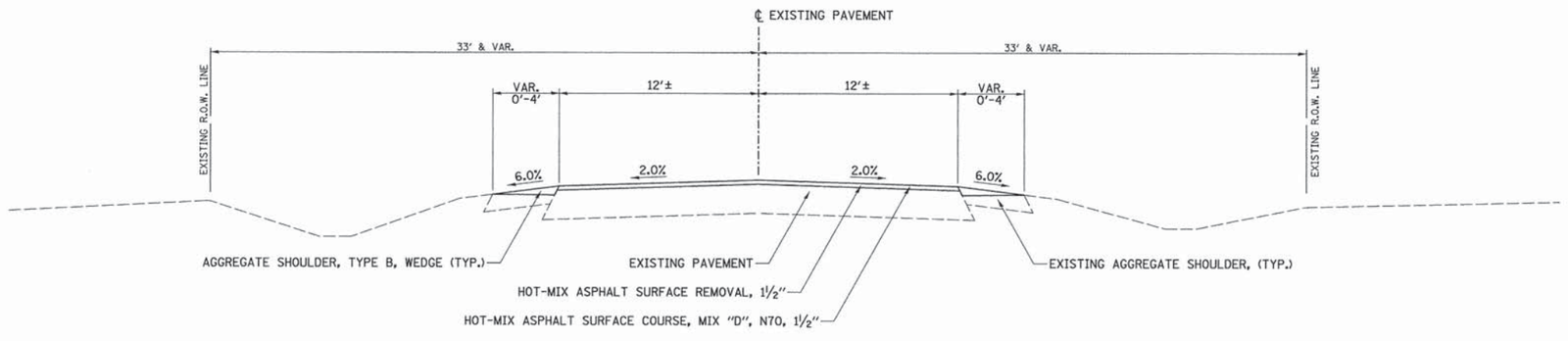
STA. 600+88.30 TO STA. 604+50.00

FILE NAME = V:\2456\2456t008.dgn	USER NAME = smountsl	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**COTTAGE GROVE AVE. PROPOSED TYPICAL SECTIONS**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			1638	05-00086-14-FP	WILL	124	10
	PLOT SCALE = 4.2350 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 63672		
	PLOT DATE = 8/27/2013	DATE -	REVISED -		SCALE: N/A SHEET NO. 6 OF 8 SHEETS STA. N/A TO STA. N/A	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION
MERIONETH DR.

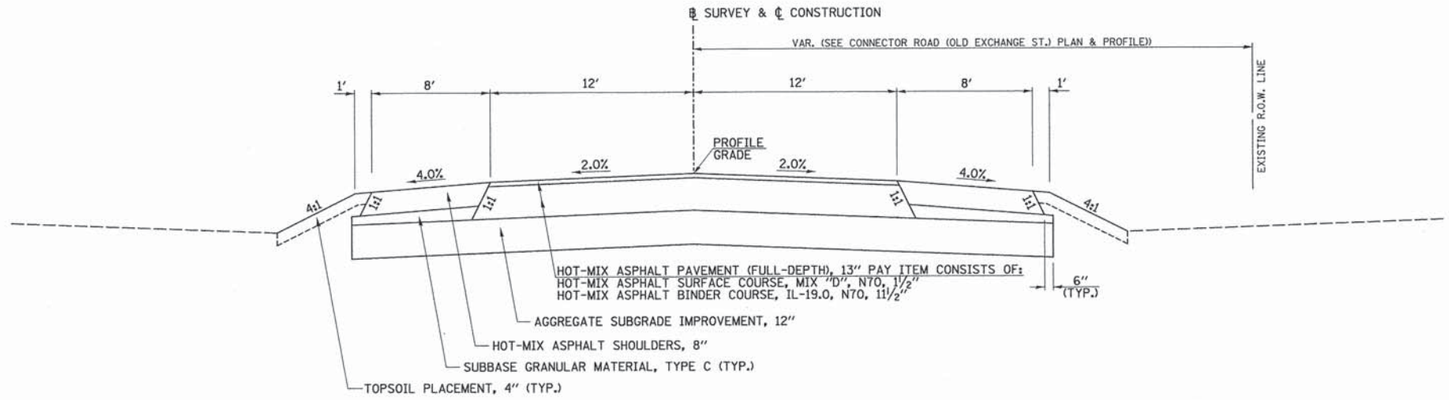
STA. 700+00.00 TO STA. 702+50.00



PROPOSED "MILLING & RESURFACING" TYPICAL SECTION
OLD EXCHANGE ST.

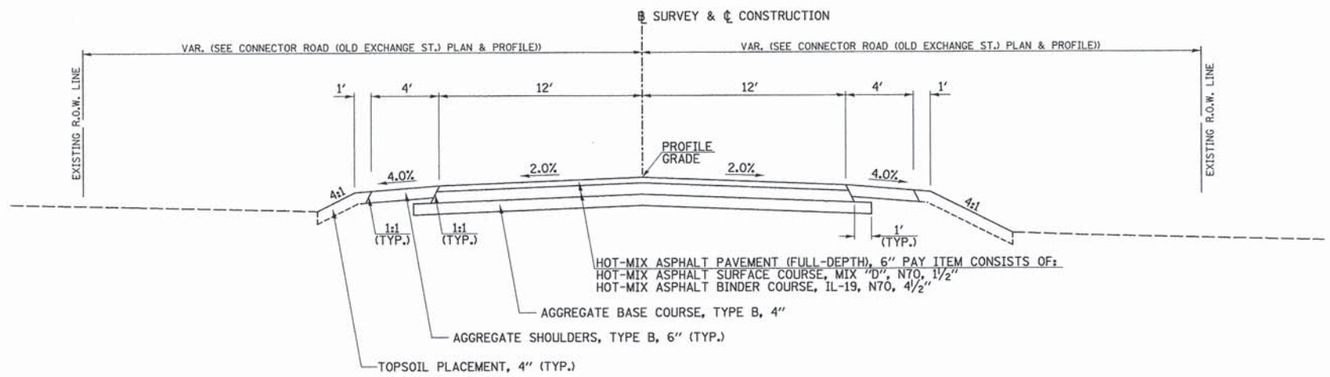
FROM STA. 805+25.35 (CONNECTOR ROAD (OLD EXCHANGE ST.)) TO WEST SIDE OF COTTAGE GROVE AVE.
(SEE CONNECTOR ROAD (OLD EXCHANGE ST.) AND COTTAGE GROVE AVE. PLAN & PROFILE SHEETS.)

FILE NAME = V:\2456\2456t006.dgn	USER NAME = smountal	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**MERIONETH DR. & OLD EXCHANGE ST. PROPOSED TYPICAL SECTIONS**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			1638	05-00086-14-FP	WILL	124	11
	PLOT SCALE = 4.2350 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 63672		
	PLOT DATE = 8/27/2013	DATE -	REVISED -		SCALE: N/A SHEET NO. 7 OF 8 SHEETS STA. N/A TO STA. N/A	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION
CONNECTOR ROAD (OLD EXCHANGE ST.)

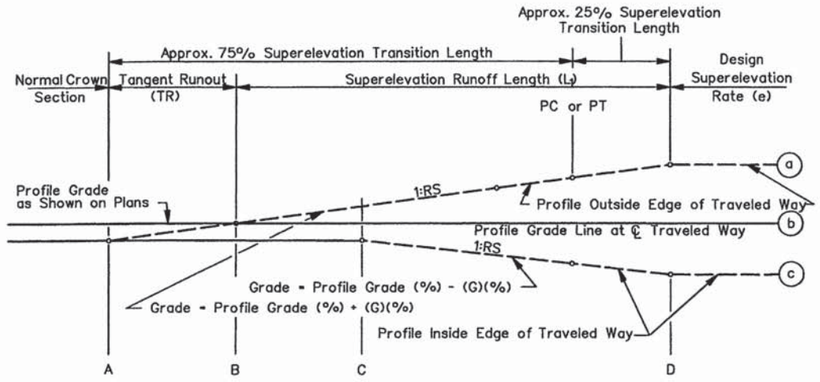
STA. 800+22.00 TO STA. 800+94.60



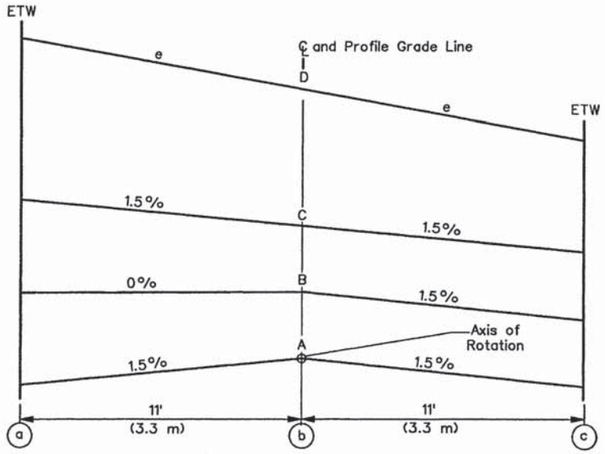
PROPOSED TYPICAL SECTION
CONNECTOR ROAD (OLD EXCHANGE ST.)

STA. 800+94.60 TO STA. 805+25.00

FILE NAME = V:\2456\2456t009.dgn	USER NAME = smountsl	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**CONNECTOR ROAD (OLD EXCHANGE ST.) PROPOSED TYPICAL SECTIONS**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			1638	05-00086-14-FP	WILL	124	12
	PLOT SCALE = 4.2350 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 63672		
	PLOT DATE = 8/27/2013	DATE -	REVISED -		SCALE: N/A SHEET NO. 8 OF 8 SHEETS STA. N/A TO STA. N/A	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



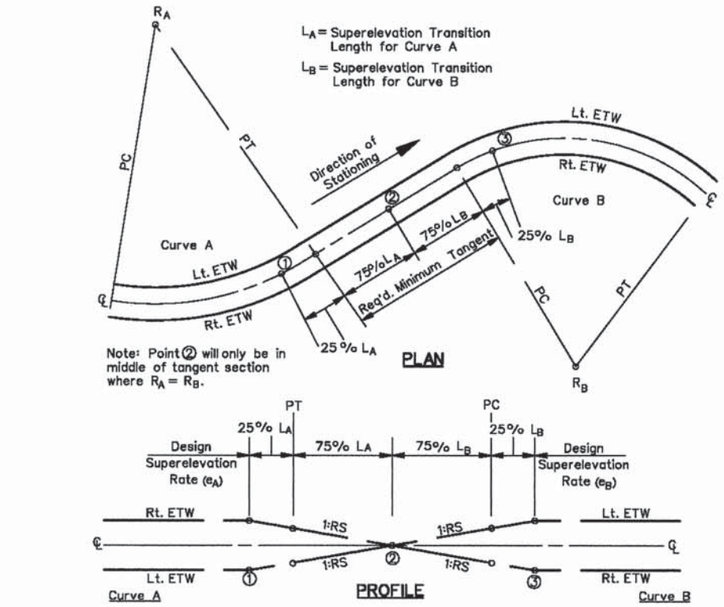
Note: Round all edge breakpoints in field.

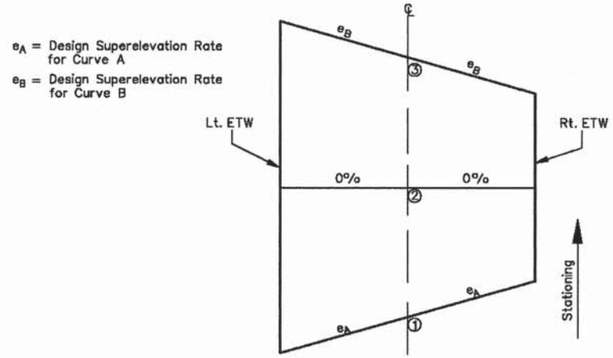


AXIS OF ROTATION ABOUT CENTERLINE
(Two-Lane Highway)

Figure 29-3E

PROPOSED SUPERELEVATION TABLE			
SECTIONS	STA	LEFT SE	RIGHT SE
A	183+98.16	-2.00%	-2.00%
B	184+52.16	0.00%	-2.00%
PC	185+00.91		
C	185+06.16	2.00%	-2.00%
D	185+35.16	3.10%	-3.10%
D	190+81.25	3.10%	-3.10%
C	191+10.25	2.00%	-2.00%
PT	191+15.50		
B	191+64.25	0.00%	-2.00%
A	192+18.25	-2.00%	-2.00%
A	200+41.05	-2.00%	-2.00%
B	200+95.05	0.00%	-2.00%
C	201+49.05	2.00%	-2.00%
PC	201+61.80		
D	202+02.05	4.00%	-4.00%
1	225+79.47	4.00%	-4.00%
PT	226+37.72		
2	227+40.47	0.00%	0.00%
PC	228+43.22		
3	229+01.47	-4.00%	4.00%
D	251+79.08	-4.00%	4.00%
PT	252+19.33		
C	252+32.08	-2.00%	2.00%
B	252+86.08	-2.00%	0.00%
A	253+40.08	-2.00%	-2.00%





CROSS SECTIONS

SUPERELEVATION DEVELOPMENT FOR REVERSE CURVES
(Continuously Rotating Plane)

Figure 29-3G

FILE NAME = V:\2456\2456ø07.dgn	USER NAME = smountsl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C.H. 49 (EXCHANGE ST.) SUPERELEVATION TABLES & DETAILS	F.A.U. RTE. 1638 / SECTION 05-00086-14-FP / COUNTY WILL / TOTAL SHEETS 124 / SHEET NO. 13
		DRAWN -	REVISED -			CONTRACT NO. 63672
	PLOT SCALE = 4.2350 ' / in.	CHECKED -	REVISED -		SCALE: N/A / SHEET NO. 1 OF 1 SHEETS / STA. N/A / TO STA. N/A	FED. ROAD DIST. NO. / ILLINOIS / FED. AID PROJECT
	PLOT DATE = 8/15/2013	DATE -	REVISED -			

PIPE UNDERDRAINS 4"

STATION	TO	STATION	SIDE	PIPE UNDERDRAINS 4"	PIPE UNDERDRAINS 4" (SPECIAL)	CONCRETE HEADWALLS FOR PIPE DRAINS
				FOOT	FOOT	EACH
C.H. 49 (EXCHANGE ST.)						
177+50.0	TO	178+50.0	LT	100		
177+50.0	TO	178+50.0	RT	100		
177+50.0			RT/LT		1 at 38 = 38	1
183+83.0	TO	188+97.0	LT	514		
183+83.0	TO	188+97.0	RT	514		
188+97.0			RT/LT		1 at 30 = 30	
193+08.9	TO	194+08.9	LT	100		
194+08.9			LT		2 at 14 = 28	1
194+08.9	TO	195+08.9	LT	100		
193+08.9	TO	194+08.9	RT	100		
194+08.9			RT		2 at 14 = 28	1
194+08.9	TO	195+08.9	RT	100		
199+83.0	TO	201+83.0	LT	200		
199+83.0			LT		1 at 22 = 22	1
199+83.0	TO	201+83.0	RT	200		
199+83.0			RT		1 at 22 = 22	1
211+79.4	TO	212+79.4	RT	100		
212+79.4			RT		2 at 14 = 28	1
212+79.4	TO	213+79.4	RT	100		
229+08.2	TO	230+08.2	LT	100		
230+08.2			LT		2 at 14 = 28	1
230+08.2	TO	231+08.2	LT	100		
248+00.0	TO	250+00.0	LT	200		
250+00.0			LT		1 at 16 = 16	1
252+63.7	TO	253+63.7	LT	100		
253+63.7			LT		2 at 12 = 24	1
253+63.7	TO	254+50.0	LT	86		
253+63.7			RT		1 at 16 = 16	1
253+63.7	TO	254+50.0	RT	86		
			TOTAL	2900	280	10

ENTRANCES

LOCATION			AGGREGATE BASE COURSE, TYPE B 12"	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	INCIDENTAL HOT MIX ASPHALT SURFACING	LEVELING BINDER (MACHINE METHOD), N70	AGGREGATE BASE COURSE, TYPE B, 4"	HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
STATION	SIDE	TYPE	SQ YD	TON	GALLON	TON	TON	SQ YD	SQ YD
C.H. 49 (EXCHANGE ST.)									
179+59.9	RT	PE	47		18	7			
179+61.6	LT	FE		67					
184+60.2	LT	FE		83					
184+60.2	RT	FE		65					
188+07.5	LT	PE	112		42	16			
194+22.8	LT	PE	166		63	24			
198+20.5	RT	FE		105					
227+00.0	LT	FE		105					
227+00.0	RT	FE		83					
249+00.0	LT	FE		84					
255+35.4	LT	CE			167	38	23	38	440
CRETE RD.									
503+48.0	LT	PE	118		45	17			
503+87.7	LT	PE	91		35	13			
505+09.4	LT	PE	56		21	8			
505+40.3	LT	PE	56		21	8			
505+97.8	LT	PE	49		19	7			
506+25.6	LT	PE	64		24	9			
COTTAGE GROVE AVE.									
604+00.0	LT	FE		59					
MERIONETH DR.									
701+00.0	RT	PE	214		81	30			
CONNECTOR ROAD (OLD EXCHANGE ST.)									
801+84.8	RT	PE	90		34	13			
804+91.9	LT	PE	63		24	9			
		TOTAL	1126	651	594	199	23	38	440

EROSION CONTROL BLANKET

LOCATION				SIDE	LENGTH	WIDTH	AREA
STATION +/-	TO	STATION +/-			FOOT	FOOT	SQ YD
C.H. 49 (EXCHANGE ST.)							
185+00	TO	194+00		RT	900	6	600
194+00	TO	197+90		RT	390	5	220
198+48	TO	202+00		RT	352	5	196
187+00	TO	188+00		LT	100	5	56
191+48	TO	194+00		LT	252	6	168
204+00	TO	205+00		RT	100	5	56
208+30	TO	214+00		RT	570	8 TO 6	435
208+00	TO	216+74		LT	874	4 TO 17	1022
217+25	TO	222+00		LT	475	17	911
						SUB-TOTAL	3664
CRETE RD.							
500+50	TO	501+00		LT	50	5	28
501+89	TO	503+16		LT	127	5	71
501+00	TO	503+25		RT	225	5	28
						SUB-TOTAL	127
CONNECTOR ROAD (OLD EXCHANGE ST.)							
803+50	TO	805+00		RT	150	6	100
						SUB-TOTAL	100
						TOTAL	3891

EXPLORATION TRENCH, 52" DEPTH

STATION	TO	STATION	SIDE	LENGTH
				FOOT
C.H. 49 (EXCHANGE ST.)				
177+50.00	TO	256+50.00	RT	7900
CRETE RD.				
500+50.00	TO	506+50.00	RT	600
MERIONETH DR.				
700+35.00	TO	702+50.00	RT	215
COTTAGE GROVE AVE.				
600+35.00	TO	602+60.00	RT	225
			TOTAL	8940

TREE REMOVAL

LOCATION			6 TO 15 UNITS DIAMETER	OVER 15 UNITS DIAMETER
STATION	OFFSET	SIDE		
C.H. 49 (EXCHANGE ST.)				
188+44.6	37.5	LT		20
188+70.2	34.3	LT	14	
188+95.0	33.8	LT		18
189+07.8	28.2	LT	6	
189+07.8	28.2	LT	6	
189+07.8	28.2	LT	6	
189+29.9	41.6	LT		24
189+84.1	64.8	LT		20
190+08.2	57.0	LT		24
190+30.5	34.6	LT	12	
190+51.6	63.5	LT		18
208+04.9	6.2	LT		20
212+24.0	7.5	RT	13	
CRETE RD.				
504+51.3	27.6	LT		22
MERIONETH DR.				
701+27.7	52.9	RT		18
701+50.0	22.8	RT		38
		TOTAL	57	222

EARTHWORK

1			2	3	4	5	6	7
LOCATION			EARTH EXCAVATION	UNSUITABLE OR UNSTABLE MATERIAL	SUITABLE EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTH BALANCE WASTE(+) OR SHORTAGE(-)	TOPSOIL EXCAVATION & PLACEMENT
STATION	TO	STATION	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
C.H. 49 (EXCHANGE ST.)								
STAGE 1								
205+00	TO	241+00	33154	4581	24287	10131	14156	3801
STAGE 2B WEST								
178+00	TO	197+00	17540	10322	6135	3395	2740	1446
STAGE 2B EAST								
241+00	TO	256+00	-64	-933	-847	8927	-9774	933
STAGE 2C								
197+00	TO	205+00	12447	2053	8835	536	8299	829
CRETE RD.								
STAGE 2C								
500+50	TO	506+50	5689	148	4710	114	4596	394
MERIONETH DR.								
STAGE 2C								
700+50	TO	702+50	849	-79	655		655	79
CONNECTOR RD. (OLD EXCHANGE ST.)								
STAGE 2C								
801+00	TO	805+00	323	-106	184	109	75	106
COTTAGE GROVE AVE.								
STAGE 1								
600+50	TO	602+50	270	126	122	649	-527	97
STAGE 2A								
602+00	TO	604+50	63	-80	-14	290	-304	80
DETENTION BERMS (SEE DRAINAGE CONTROL STRUCTURE ON SPECIAL DETAIL SHEET)						50	-50	
		TOTAL	70271	16032	44067	24201	19866	7765
USE PAY ITEM TOTALS BELOW								

INFORMATION:

SHRINKAGE FACTORS: EARTH EXCAVATION: 15%

UC = UNDERCUT (FROM CROSS-SECTIONS)
C = CUT (FROM CROSS-SECTIONS)
TSE = TOPSOIL STRIPPING & EARTH EXCAVATION
TSP = TOPSOIL EXCAVATION & PLACEMENT (COLUMN 8)

COLUMN 1 - LOCATION FROM PLANS
COLUMN 2 - CUT QUANTITIES FROM CROSS SECTIONS (C + TSE + UC) MINUS TOPSOIL EXCAVATION & PLACEMENT (TSP)
COLUMN 3 - CUT MATERIAL THAT IS DETERMINED TO BE EITHER UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT
= UNDERCUT (UC) + [TOPSOIL STRIPPING & EARTH EXCAVATION (TSE) - TOPSOIL EXCAVATION & PLACEMENT (TSP)]
COLUMN 4 - = [(COLUMN 2 - COLUMN 3) x (1-EARTH EXCAVATION SHRINKAGE FACTOR)]
COLUMN 5 - QUANTITIES FROM CROSS SECTIONS
COLUMN 6 - = COLUMN 4 - COLUMN 5
COLUMN 7 - QUANTITIES FROM CROSS SECTIONS, THESE QUANTITES ARE NOT INCLUDED IN EARTH EXCAVATION OR EMBANKMENT

PAY ITEMS:

COLUMN #2 IS EARTH EXCAVATION = 70271CU YD
COLUMN #3 IS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL = 16032CU YD
COLUMN #7 IS TOPSOIL EXCAVATION & PLACEMENT = 7765CU YD

NOTES:

1. THE TOP 12 INCHES OF THE EXISTING SOILS WITHIN THE LIMITS OF THE PROPOSED PAVEMENT SHALL BE REMOVED (TSE) AS SHOWN IN THE CROSS SECTIONS. THIS WORK SHALL BE PAID FOR AS EARTH EXCAVATION, OR IF USED FOR TOPSOIL PURPOSES, TOPSOIL EXCAVATION AND PLACEMENT (TSP).

2. ALL SOILS SHALL BE TESTED BEFORE BEING INCORPORATED INTO THE NEW EMBANKMENT.

TREE REMOVAL, ACRES

STATION	TO	STATION	SIDE	SQ FT	ACRE
C.H. 49 (EXCHANGE ST.)					
189+10.7	TO	192+67.2	RT	10740.9	0.3
190+67.7	TO	194+15.4	LT	18728.2	0.5
194+74.4	TO	198+12.2	LT	13552.0	0.3
207+60.4	TO	212+58.2	RT	48824.9	1.0
207+60.4	TO	214+23.8	LT	66100.6	1.5
CRETE RD.					
500+05.8	TO	508+55.1	LT & RT	49057.3	1.5
				TOTAL	5.1

BERM PROTECTION

LOCATION		STONE RIPRAP, CLASS A4	FILTER FABRIC
STATION	SIDE	SQ YD	
C.H. 49 (EXCHANGE ST.)			
208+09.00	RT	143	149
214+91.00	RT	104	110
216+70.00	LT	171	177
	TOTAL	418	436

FILE NAME = v:\2456\2456g003.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.)
SCHEDULES OF QUANTITIES

SCALE: N/A | SHEET NO. 1 OF 6 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	14
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEEDING, MULCH, NUTRIENTS

LOCATION				SEEDING, CLASS 2A	MULCH, METHOD 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
STATION +/-	TO	STATION +/-	SIDE	ACRE	ACRE	POUND	POUND	POUND
C.H. 49 (EXCHANGE ST.)								
177+50	TO	256+50	LT & RT	13.3	13.3	1193	1193	1193
CRETE RD.								
500+50	TO	506+50	LT & RT	0.8	0.8	72	72	72
MERIONETH DR.								
701+00	TO	702+50	LT & RT	0.2	0.2	14	14	14
CONNECTOR ROAD (OLD EXCHANGE ST.)								
801+00	TO	805+00	LT & RT	0.2	0.2	18	18	18
COTTAGE GROVE AVE.								
600+50	TO	604+50	LT & RT	0.3	0.3	29	29	29
			TOTAL	14.4	14.4	1296	1296	1296

NUTRIENTS RATE OF APPLICATION: 90 LBS/ACRE
AREAS OF MULCH HAVE BEDUCTED FROM EROSION CONTROL BLANKET LOCATIONS.

TEMPORARY EROSION CONTROL SEEDING

STATION +/-	TO	STATION +/-	SIDE	SEEDING CLASS 7 ACRES	POUNDS PER APPLICATION PER ACRE	NUMBER OF APPLICATIONS	TOTAL POUND	MULCH, METHOD 2 ACRE
C.H. 49 (EXCHANGE ST.)								
177+50.0	TO	256+50.0	LT & RT	13.25	100.0	4	5300	13.25
CRETE RD.								
500+50.0	TO	506+50.0	LT & RT	0.80	100.0	4	320	0.80
MERIONETH DR.								
701+00.0	TO	702+50.0	LT & RT	0.20	100.0	4	80	0.20
CONNECTOR ROAD (OLD EXCHANGE ST.)								
801+00.0	TO	805+00.0	LT & RT	0.20	100.0	4	80	0.20
COTTAGE GROVE AVE.								
600+50.0	TO	604+50.0	LT & RT	0.32	100.0	4	128	0.32
						TOTAL	5908	14.8

MULCH METHOD 2 IS USED FOR TEMPORARY MULCHING, ONLY ONE APPLICATION OF MULCHING HAS BEEN INCLUDED.

AGGREGATE FOR TEMPORARY ACCESS

LOCATION		WIDTH	LENGTH	THICKNESS	TON
(STATION) TO STATION	SIDE	FOOT			
C.H. 49 (EXCHANGE ST.)					
179+59.9	RT	10.5	28.1	0.5	11
179+59.9 TO 188+12.9	LT	15	853	0.5	487
194+23.0 TO 198+23.0	LT	15	400	0.5	228
198+20.5	RT	10	14.3	0.5	5
CRETE RD.					
503+48.0	LT	10	23.5	0.5	9
503+87.7	LT	10	20.3	0.5	8
505+09.4	LT	10	52.2	0.5	20
505+97.8	LT	10	46.4	0.5	18
				TOTAL	786

REMOVAL OF THE SUB-BASE IS TO BE CONSIDERED INCLUDED IN THE COST OF AGGREGATE FOR TEMPORARY ACCESS.

MANHOLES TO BE ADJUSTED

STATION	OFFSET	SIDE	TYPE	EACH
CRETE RD.				
504+38.27	21.1	LT	SANS	1
MERIONETH DR.				
701+15.20	1.4	RT	SANS	1
			TOTAL	2
			USE	2

INLET AND PIPE PROTECTION

STATION	LOCATION	SIDE	EACH
C.H. 49 (EXCHANGE ST.)			
181+41.2	PIPE	RT	2
184+40.2	PIPE	RT	1
187+89.3	INLET	LT	1
198+46.5	PIPE	RT	1
199+80.1	INLET	LT	1
205+00.0	PIPE	LT	1
208+00.0	PIPE	RT	1
215+00.0	PIPE	RT	1
217+25.7	PIPE	LT	1
227+00.0	PIPE	RT	1
227+00.0	PIPES	LT	2
228+00.0	PIPES	RT	2
251+42.9	PIPE	LT	1
CRETE RD.			
501+00.0	INLET	RT	1
503+64.0	INLET	LT	1
504+07.8	PIPE	LT	1
505+25.0	INLET	LT	1
505+61.5	PIPE	LT	1
506+09.0	INLET	LT	1
506+49.0	PIPE	LT	1
CONNECTOR ROAD (OLD EXCHANGE ST.)			
801+83.7	PIPE	RT	1
804+74.3	PIPE	LT	1
MERIONETH DR.			
700+32.2	PIPE	RT	1
COTTAGE GROVE AVE.			
601+00.0	PIPE	LT	1
603+10.0	PIPE	RT	1
		TOTAL	28

ROCK OUTLET PROTECTION

LOCATION		STONE RIPRAP, CLASS A3	FILTER FABRIC
STATION	SIDE	SQ YD	
C.H. 49 (EXCHANGE ST.)			
181+41.0	LT	35.6	36.8
191+47.7	LT	21.3	22
205+00.0	RT	21.3	22.0
228+00.0	LT	42.6	44.0
251+42.9	RT	21.3	22.0
COTTAGE GROVE AVE.			
601+00.0	RT	17.8	18.4
602+77.2	RT	17.8	18.4
MERIONETH DR.			
700+24.5	LT	11.5	12.0
	TOTAL	189.2	195.6
	USE	190	196

TEMPORARY DITCH CHECKS (ROLLED EXCELSIOR)

LOCATION			LENGTH
STATION	SIDE		FOOT
C.H. 49 (EXCHANGE ST.)			
182+00	LT		24
185+00		RT	24
185+40		RT	24
185+50	LT		24
185+80		RT	24
186+00	LT		24
186+20		RT	24
186+50	LT		24
186+60		RT	24
187+00	LT	RT	24
187+40	LT	RT	48
187+80		RT	48
187+90	LT		24
188+30		RT	24
188+15		RT	24
188+30		RT	24
188+50		RT	24
188+75		RT	24
189+00		RT	24
189+20		RT	24
189+40		RT	24
189+60		RT	24
189+90		RT	24
190+10		RT	24
190+53		RT	24
190+86		RT	24
191+20		RT	24
191+60		RT	24
191+90		RT	24
192+30		RT	24
192+65		RT	24
192+35	LT		24
192+70	LT		24
193+00	LT	RT	48
194+65		RT	24
194+90		RT	24
195+15		RT	24
195+40		RT	24
195+65		RT	36
195+90		RT	24
196+20		RT	24
196+57		RT	30
196+95		RT	24
199+50		RT	24
200+00		RT	24
200+35		RT	28
200+70		RT	24
201+00		RT	24
201+25	LT		24
201+50	LT	RT	48
201+75	LT		24
202+00		RT	28
202+50		RT	24
209+00		RT	24
209+20	LT		24
209+25		RT	24
209+40	LT		24

LOCATION			LENGTH
STATION	SIDE		FOOT
C.H. 49 (EXCHANGE ST.)			
209+50		RT	24
209+60	LT		24
209+75		RT	24
209+80	LT		24
210+00		RT	24
210+20		RT	24
201+25	LT		24
201+40	LT	RT	48
201+60		RT	24
201+67	LT		24
201+80		RT	24
201+88	LT		24
211+00		RT	24
210+09	LT		24
201+50	LT		24
212+23	LT		24
212+28		RT	24
212+46	LT		24
212+56		RT	24
212+69	LT		24
212+84		RT	24
212+92	LT		24
213+12		RT	24
213+15	LT		24
213+40		RT	24
213+45	LT		24
213+70	LT	RT	48
214+00	LT	RT	48
214+65		RT	24
216+20		RT	24
217+80		RT	24
218+70		RT	24
219+85		RT	24
220+20		RT	24
220+65		RT	24
221+50	LT		24
224+85	LT		24
225+00		RT	24
231+20	LT		24
233+00		RT	24
234+70	LT		24
238+00	LT		24
224+00		RT	24
248+00		RT	24
251+00		RT	24
252+00		RT	24
CRETE RD.			
501+36		RT	24
501+60		RT	24
502+20		RT	24
502+70		RT	24
503+40		RT	24
504+20		RT	24
504+70		RT	24
505+90		RT	24
		TOTAL	2858

PERIMETER EROSION BARRIER

STATION	TO	STATION	SIDE	LENGTH FOOT	LOCATION
C.H. 49 (EXCHANGE ST.)					
188+28	TO	191+50	LT	322	Back of gutter +/- 2'
194+96	TO	199+60	LT	464	Back of gutter +/- 2'
242+00	TO	249+50	LT	750	Bottom of slope
247+50	TO	254+50	RT	700	Bottom of slope
			TOTAL	2236	

PERIMETER EROSION BARRIER IS SILT FENCE.

FILE NAME = v:\2456\2456q004.dgn	USER NAME = amountal	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.)
SCHEDULES OF QUANTITIES

SCALE: N/A | SHEET NO. 2 OF 6 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	15
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT

LOCATION			AGGREGATE SUBGRADE IMPROVEMENT, 12"	AGGREGATE BASE COURSE, TYPE B 4"	SUBBASE GRANULAR MATERIAL, TYPE C	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13"	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	HOT-MIX ASPHALT SHOULDERS 8"	AGGREGATE SHOULDERS, TYPE B	LEVELING BINDER (MACHINE METHOD), N70	PCC BASE COURSE WIDENING 9"	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	AGGREGATE SUBGRADE IMPROVEMENT
STATION	TO	STATION	SQ YD	SQ YD	TON	GALLON	TON	SQ YD	SQ YD	TON	SQ YD	TON	TON	SQ YD	SQ YD	SQ YD	CU YD
C.H. 49 (EXCHANGE ST.)																	
177+50.00	TO	188+28.00	5072		492	1408	6		2875		1917						694
188+28.00	TO	191+50.00	1617		191	421	2		859		573						114
191+50.00	TO	192+59.62	516		46	144	1		292		195						
192+59.62	TO	194+45.00	941		78	278	2		556		330						
194+45.00	TO	196+59.62	1357		106	408	2		835		382						
196+59.62	TO	199+60.00	2042		148	636	3		1335		535						
199+60.00	TO	206+69.98	4603		299	1502			3155		1032						259
206+69.98	TO	210+69.98	2238		210	685			1422		712						
210+69.98	TO	233+93.64	10932		1219	3034			6196		4131						
233+93.64	TO	237+93.70	2238		210	685			1067		712						
237+93.70	TO	242+20.68	2768		224	904			1898		650						
242+20.68	TO	246+20.87	2239		210	685			1423		712						
246+20.87	TO	254+50.00	3901		414	1083	5		2211		1475						
254+50.00	TO	256+50.00				43	1			45	79				536		
SUB-TOTAL			40464		3847	11916	22		24123	45	13435				536		1067
CRETE RD.																	
500+20.71	TO	501+02.10	562		35	173	1		357		179	2					
501+02.10	TO	506+50.00		1643		693	3	1469				112					
SUB-TOTAL			562	1643	35	866	4	1469	357		179	114					
COTTAGE GROVE AVE.																	
600+20.74	TO	600+88.30	484		32	101	1		307		158						
600+88.30	TO	604+50.00		1005		241	2	863				90					
SUB-TOTAL			484	1005	32	342	3	863	307		158	90					
MERIONETH DR.																	
700+12.29	TO	702+50.00		982		398	2	98									
SUB-TOTAL				982		398	2	98									
CONNECTOR ROAD (OLD EXCHANGE ST.)																	
800+20.00	TO	800+94.60	535		36	163	1		345		169						
800+94.60	TO	805+25.00		1293		543	3	1148				98					
SUB-TOTAL			535	1293	36	706	4	1148	345		169	98					
S. COUNTRY LN. & NORTH ENTRANCE				45		31	1			40			134	61	328		
OLD EXCHANGE ST. @ COTTAGE GROVE AVE.				288		124	1	262									
OLD EXCHANGE ST. (FROM STA. 805+25 CONNECTOR ROAD TO WEST OF COTTAGE GROVE AVE.)						786	20			826		140				9834	
TOTAL			42045	5256	3950	15169	57	3840	25132	911	13941	442	134	61	864	9834	1067

WATER SERVICE LINE, 1"

LOCATION				SERVICE LINE	TRENCH BACKFILL
STATION +/-	TO	STATION +/-	SIDE	FOOT	CU YD
C.H. 49 (EXCHANGE ST.)					
188+45.42	TO	188+45.42	X-RD	101	83
188+48.43	TO	188+48.43	X-RD	101	
188+50.87	TO	188+50.87	X-RD	101	
194+47.12	TO	194+47.12	X-RD	105	29
CRETE RD.					
502+70.29	TO	502+70.29	X-RD	110	19
503+25.90	TO	503+37.12	X-RD	91	23
504+25.13	TO	504+25.13	X-RD	77	19
504+74.77	TO	504+74.77	X-RD	70	19
505+75.79	TO	505+75.79	X-RD	48	21
			TOTAL	804	213

WATER VALVES TO BE ADJUSTED

STATION +/-	SIDE	OFFSET FOOT +/-	EACH
C.H. 49 (EXCHANGE ST.)			
254+34.9	RT	37.2	1
254+99.8	RT	52.2	1
255+52.6	RT	38.1	1
		TOTAL	3

FIRE HYDRANTS TO BE REMOVED

STATION +/-	SIDE	OFFSET FOOT +/-	EACH
C.H. 49 (EXCHANGE ST.)			
180+28.3	RT	25.6	1
186+84.2	RT	24.5	1
197+68.2	RT	26.4	1
CRETE RD.			
502+59.4	LT	29.8	1
505+48.9	RT	21.8	1
		TOTAL	5

PAVEMENT REMOVAL

LOCATION			AREA
STATION	TO	STATION	SQ YD
C.H. 49 (EXCHANGE ST.)			
177+50.00	TO	200+57.99	6270
246+51.00	TO	254+50.00	1613
OLD EXCHANGE ST.			
200+57.99 (C.H. 49 (EXCHANGE ST.))	TO	805+25.35 (CONNECTOR ROAD (OLD EXCHANGE ST.))	2008
COTTAGE GROVE AVE.	TO	246+51.00 (C.H. 49 (EXCHANGE ST.))	2871
CRETE RD.			
503+00.00	TO	506+52.00	760
MERIONETH DR.			
700+87.70	TO	702+50.00	704
OLD CRETE RD.			
C.H. 49 (EXCHANGE ST.)	TO	MERIONETH DR.	453
MERIONETH DR.	TO	503+32.90	251
		TOTAL	14930

REMOVAL OF THE SUB-BASE IS TO BE CONSIDERED INCLUDED IN THE COST OF THE PAVEMENT REMOVAL.

WATER MAIN REMOVAL

LOCATION				FOOT	TRENCH BACKFILL
STATION +/-	TO	STATION +/-	SIDE		
C.H. 49 (EXCHANGE ST.)					
180+00.00	TO	198+49.80	RT	1850	
198+49.80	TO	198+49.80	X-RD	64	
OLD CRETE RD.					
499+96.17	TO	505+71.04	RT	623	140
MERIONETH DR.					
700+94.61	TO	701+71.80	LT	77	8
			TOTAL	2614	148

FIRE HYDRANTS

STATION +/-	SIDE	OFFSET FOOT +/-	EACH
C.H. 49 (EXCHANGE ST.)			
180+30.0	RT	34.7	1
187+00.0	RT	54.7	1
198+50.0	RT	64.7	1
CRETE RD.			
502+50.0	LT	29.7	1
505+74.9	RT	30.0	1
		TOTAL	5

DUCTILE IRON WATER MAIN 12"

LOCATION				WATER MAIN	TRENCH BACKFILL
STATION +/-	TO	STATION +/-	SIDE	FOOT	CU YD
C.H. 49 (EXCHANGE ST.)					
180+00.00	TO	200+26.55	RT	2025	
CRETE RD.					
499+37.63	TO	505+71.04	RT	634	70
MERIONETH DR.					
699+55.85	TO	701+71.80	LT	216	39
			TOTAL	2875	109

FILE NAME = v:\2456\2456q005.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/27/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.)
SCHEDULES OF QUANTITIES

SCALE: N/A | SHEET NO. 3 OF 6 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	16
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PIPE CULVERTS

LOCATION		PIPE CULVERTS								END SECTIONS								INLETS						NOTES
		TYPE 1							TYPE 2	P.R.C. FLARED 12"	P.R.C. FLARED 15"	STD 542001 15"	STD 542006 30"	STEEL 15"	STEEL 18"	STEEL 24"	STEEL 30"	TYPE A TYPE B GRATE	TYPE B TYPE B GRATE	TYPE B TYPE 11 F&G	DRAINAGE CONTROL STRUCTURE	TRAVERSABLE PIPE GRATE	TRENCH BACKFILL	
		CLASS A 12"	CLASS A 15"	CLASS A 30"	CLASS D 15"	CLASS D 18"	CLASS D 24"	CLASS D 30"	CLASS A 15"															
STATION	SIDE	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	CU YD	
C.H. 49 (EXCHANGE ST.)																								
181+41.2	X-RD					112									4								2	PIPES 2 @ 56'
184+60.2	RT				42									2										
198+20.5	RT					48									2									
205+00.0	X-RD							86									2						22	
227+00.0	RT				52									2										
227+00.0	LT			96									4									59		PIPES 2 @ 48'
228+00.0	X-RD						112									4							14	PIPES 2 @ 56'
251+42.9	X-RD						58									2							4	
208+15 (BERM)	RT		16									2									1	15		PIPES 2 @ 8'
214+85 (BERM)	RT		12									2									1	15		PIPES 2 @ 6'
217+00 (BERM)	LT		48									2									1	15		PIPES 2 @ 24'
CRETE RD.																								
503+32.9	LT								44		1													
503+64.0	LT																		1					
503+78.8	LT		40								1													
505+09.4	LT	34								1														
505+25.0	LT																	1						
505+40.3	LT	30								1														
505+97.8	LT	24								1														
506+09.0	LT																	1						
506+25.5	LT	36								1														
MERIONETH DR.																								
700+32.2	X-RD		70								1												10	
700+42.5	RT																			1				
700+43.3	X-RD (RT)		8								1													
CONNECTOR ROAD (OLD EXCHANGE ST.)																								
804+93.1	LT				36									2										
COTTAGE GROVE AVE.																								
601+00.0	X-RD					52									2								7	
602+77.2	RT					58									2								5	
	TOTAL	124	194	96	130	270	170	86	44	4	4	6	4	6	10	6	2	2	1	1	3	103	64	

PIPE CULVERT REMOVAL

LOCATION		OFFSET +/-	SIZE	TYPE	LENGTH
STATION	SIDE	FOOT			FOOT
C.H. 49 (EXCHANGE ST.)					
181+40.00	X-RD	CL	18"	CMP	45
188+07.50	LT	28	15"	CMP	30
189+20.00	LT	29	18"	CMP	20
189+42.20	X-RD	CL	18	CMP	48
194+00.00	X-RD	CL	120" EQRS	CMP	68
194+39.20	LT	32	30"	CMP	44
198+00.00	LT	24	15"	CMP	85
198+20.50	RT	25	15"	CMP	30
245+19.00	RT	50	15	CMP	20
251+42.00	X-RD	CL	24"	CMP	46
				SUB-TOTAL	436
CRETE RD.					
502+28.00	LT	80	10"	CMP	26
503+46.00	LT	41	12"	CMP	31
503+89.00	LT	33	10"	CMP	26
505+10.00	LT	17	10"	CMP	25
505+40.00	LT	16	10"	CMP	26
505+96.00	LT	13	10"	CMP	16
				SUB-TOTAL	150
CONNECTOR RD. (OLD EXCHANGE ST.)					
802+06.21	RT	25	15"	CMP	37
804+94.11	LT	23	15"	CMP	31
				SUB-TOTAL	68
OLD EXCHANGE ST. (COTTAGE GROVE AVE.)					
124+00.0	LT	23	15"	CMP	22
125+11.0	LT	25	15"	CMP	20
				SUB-TOTAL	42
				TOTAL	696

STORM SEWER , INLETS & MANHOLES

LOCATION			STANDARD NUMBER	STORM SEWERS, CLASS A, TYPE 2	STORM SEWERS, CLASS A, TYPE 2	STORM SEWER (WATER MAIN REQUIREMENTS)		INLETS, TYPE A, TYPE 8 GRATE	INLETS, TYPE A, WITH MEDIAN INLET (604101)	INLETS, TYPE B, WITH MEDIAN INLET (604106)	MANHOLES, TYPE A, 4'-DIA. TYPE 9 F&G	MANHOLES, TYPE A, 4'-DIA. TYPE 20 F&G	MANHOLES, TYPE A, 5'-DIA. TYPE 9 F&G	MANHOLES, TYPE A, 5'-DIA. TYPE 20 F&G	PRC FLARED END SECTION 24"	TRENCH BACKFILL
				18"	24"	18"	24"									
STATION	TO STATION	SIDE		FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	CU YD
C.H. 49 (EXCHANGE ST.)																
187+91.30		LT	602301, 604036					1								
187+91.30	TO 188+97.00	LT				104										17
188+97.00		LT	602401,602601, 604041								1					
188+97.00	TO 191+47.70	LT		250												71
191+47.70		LT	602401, 602601, 604071									1				
191+47.70	TO 191+47.70	LT			20											
191+47.70		LT	542401												1	
BOX CULVERT	TO 194+47.10	LT					38									58
194+47.10		LT	602401, 602601, 604071											1		
194+47.10	TO 194+97.00	LT					50									40
194+97.00		LT	602401, 602306, 604091										1			
194+97.00	TO 197+47.00	LT			250											29
197+47.00		LT	602401,602601, 604041								1					
197+47.00	TO 199+80.65	LT			234											3
199+80.65		LT	602306, 604106							1						
C.H. 49 (EXCHANGE ST.) TO CRETE RD.																
199+80.65	TO 501+00.00	LT/RT				78										11
501+00.00		RT	602301, 604101						1							
	TOTAL			250	504	182	88	1	1	1	2	1	1	1	1	229

FILE NAME = vr\2456\2456q006.dgn	USER NAME = smountal	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.)
SCHEDULES OF QUANTITIES

SCALE: N/A | SHEET NO. 4 OF 6 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	17
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

COMBINATION CONCRETE CURB AND GUTTER

LOCATION				TYPE B-6.12	PROTECTIVE COAT
STATION	TO	STATION	SIDE	FOOT	SQ YD
C.H. 49 (EXCHANGE ST.)					
254+63.8	to	255+91.5	RT	154.5	34.3
254+72.9	to	255+97.8	LT	128.8	28.6
MERIONETH DR.					
700+12.0	to	702+50.0	LT	252.0	56.0
700+12.0	to	702+50.0	RT	297.5	66.1
			TOTAL	833	186

COMBINATION CURB & GUTTER REMOVAL

LOCATION			SIDE	FOOT
STATION +/-	TO	STATION +/-		
MERIONETH DR.				
701+37.00	TO	702+50.00	RT	113
701+43.00	TO	702+50.00	LT	107
S. COUNTRY LN.				
255+35.40			RT	142
C.E. ℄ STA. 255+35.40			LT	123
			TOTAL	485

DUST CONTROL WATERING

STATION	TO	STATION	SIDE	WIDTH FOOT	AREA ACRE	GALLONS•	UNIT
C.H. 49 (EXCHANGE ST.)							
177+50.00	TO	256+50.00	LT & RT	VARIES	13.3	128744	129
CRETE RD.							
500+50.00	TO	506+50.00	LT & RT	VARIES	0.8	7744	8
COTTAGE GROVE AVE.							
600+50.00	TO	604+50.00	LT & RT	VARIES	0.3	2904	3
MERIONETH DR.							
710+00.00	TO	702+50.00	LT & RT	VARIES	0.2	1936	2
CONNECTOR ROAD (OLD EXCHANGE ST.)							
801+00.00	TO	805+00.00	LT & RT	VARIES	0.2	1936	2
						TOTAL	143

•ASSUMED RATE OF 1 GALLON PER SQUARE YARD & 2 APPLICATIONS.

CONCRETE GUTTER, INLETS AND OUTLETS

LOCATION			SIDE	CONCRETE GUTTER, TYPE A (SPECIAL)	CLASS SI CONCRETE (INLET) •	CLASS SI CONCRETE (OUTLET)	PROTECTIVE COAT
STATION	TO	STATION		FOOT	CU YD		SQ YD
C.H. 49 (EXCHANGE ST.)							
188+28.00	TO	188+40.00	LT		0.9		5.3
188+40.00	TO	191+04.08	LT	264			88.0
191+04.08	TO	191+50.00	LT			3.3	20.4
194+45.00	TO	194+96.92	LT			3.3	20.4
194+96.92	TO	199+48.00	LT	451			150.3
199+48.00	TO	199+60.00	LT		0.9		5.3
			TOTAL	715	8.4		290

• THE CONCRETE (INLET) AND CONCRETE (OUTLET) WILL BE PAID FOR AS, CLASS SI CONCRETE (OUTLET) PER SPEC. BOOK.

RAISED REFLECTIVE PAVEMENT MARKER

LOCATION			1-WAY		2-WAY
			CRYSTAL	AMBER	AMBER
STATION	TO	STATION	EACH		
C.H. 49 (EXCHANGE ST.)					
177+50.00	TO	200+00.00	3	22	37
200+00.00	TO	238+45.14	3	66	56
238+45.14	TO	256+50.00	3	22	29
		SUB-TOTAL	9	110	122
		TOTAL		241	

STEEL PLATE BEAM GUARDRAIL

LOCATION			STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
STATION +/-	TO	STATION +/-	SIDE	FOOT
C.H. 49 (EXCHANGE ST.)				
P.E. ℄ STA. 194+22.8			LT	50
			TOTAL	50
SEE SPECIAL PROVISIONS.				

PERMANENT SURVEY MARKERS AND CONCRETE REFERENCE MARKERS

LOCATION			PERMANENT SURVEY MARKERS, TYPE I	CONCRETE REFERENCE MARKERS
STATION	OFFSET	DESCRIPTION	EACH	
C.H. 49 (EXCHANGE ST.)				
185+00.91	CL	PC	1	3
191+15.50	CL	PT	1	3
201+61.80	CL	PC	1	3
226+37.72	CL	PT	1	3
228+43.22	CL	PC	1	3
252+19.33	CL	PT	1	3
		TOTAL	6	18

DRIVEWAY PAVEMENT REMOVAL

LOCATION		HOT-MIX ASPHALT
STATION	SIDE	SQ YD
C.H. 49 (EXCHANGE ST.)		
179+59.9	RT	61
188+07.5	LT	116
194+22.9	LT	185
CRETE RD.		
503+48.0	LT	54
503+87.7	LT	45
505+09.4	LT	45
505+40.3	LT	45
506+25.6	LT	49
MERIONETH DR.		
701+00.0	RT	54
CONNECTOR ROAD (OLD EXCHANGE ST.)		
801+84.8	RT	86
804+91.9	LT	50
	TOTAL	790

SECTION CORNER MARKERS

STATION	OFFSET	EACH
COTTAGE GROVE AVE.		
602+77.21	2.13' RT.	1
	TOTAL	1
	USE	1

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

STATION	SIDE	OFFSET	EACH
C.H. 49 (EXCHANGE ST.)			
177+50.00	LT	30.00'	1
177+50.00	LT	50.00'	1
179+88.55	RT	35.00'	1
180+17.44	RT	50.00'	1
184+00.00	LT	50.00'	1
184+00.00	LT	60.00'	1
185+00.91	LT	60.00'	1
185+00.91	RT	50.00'	1
188+08.52	LT	60.00'	1
189+00.00	RT	82.00'	1
191+15.50	RT	80.00'	1
193+00.00	LT	90.00'	1
194+74.30	LT	90.00'	1
194+74.40	LT	70.48'	1
200+86.86	RT	80.00'	1
200+82.45	LT	133.64'	1
201+20.00	LT	80.00'	1
205+31.82	RT	201.98'	1
205+88.74	RT	93.96'	1
207+66.00	LT	105.00'	1
207+69.60	LT	80.00'	1
207+92.20	RT	69.06'	1
207+97.97	RT	105.00'	1
212+00.00	RT	105.00'	1
219+00.00	RT	60.00'	1
223+50.00	LT	105.00'	1
226+37.72	RT	60.00'	1
228+43.22	RT	60.00'	1
229+01.25	LT	60.00'	1
237+71.73	RT	60.00'	1
238+34.20	RT	110.00'	1
247+95.76	RT	60.00'	1
252+19.33	LT	60.00'	1
252+19.33	RT	60.00'	1
254+38.59	RT	60.00'	1
254+95.42	RT	110.00'	1
255+61.65	RT	83.04'	1
255+94.80	RT	50.05'	1
256+50.00	LT	60.00'	1
256+50.00	LT	33.00'	1
CRETE RD.			
506+52.98	RT	29.91'	1
506+52.98	RT	45.00'	1
COTTAGE GROVE AVE.			
602+43.85	RT	40.00'	1
		TOTAL	43

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

STATION	TO	STATION	EACH
OLD EXCHANGE ST.			
86+86	TO	123+73	199
		TOTAL	199

THERMOPLASTIC PAVEMENT MARKING

STATION		STATION	LETTERS AND SYMBOLS		LINES					
					4"		6"		12"	24"
			ONLY	TURN ARROW	SOLID WHITE	DOUBLE YELLOW	SOLID WHITE	DOTTED WHITE	SOLID YELLOW	SOLID WHITE
			SQ FT		EDGE OF PAV'T.	CL & MEDIAN	LANE LINE	LANE LINE	MED./DIAG.	LINE
					FOOT					
C.H. 49 (EXCHANGE ST.)										
177+50.0	TO	256+50.0	63	47	15622	20434	345	135	983	63
CRETE RD.										
500+00.0	TO	506+53.0			1061	1002				13
COTTAGE GROVE AVE.										
600+00.0	TO	604+40.3			792	627				39
MERIONETH DR.										
700+00.0	TO	702+50.0				427				16
CONNECTOR ROAD (OLD EXCHANGE ST.)										
800+22.0	TO	805+25.0			899	951				24
		SUB-TOTAL	63	47	18374	23441	345	135	983	155
		TOTAL	110		41815		480		983	155

TEMPORARY PAVEMENT MARKING

STATION		STATION	LETTERS AND SYMBOLS		LINES					
					4"		6"		12"	24"
			ONLY	TURN ARROW	SOLID WHITE	DOUBLE YELLOW	SOLID WHITE	DOTTED WHITE	SOLID YELLOW	SOLID WHITE
			SQ FT		EDGE OF PAV'T.	CL & MEDIAN	LANE LINE	LANE LINE	MED./DIAG.	LINE
					FOOT					
C.H. 49 (EXCHANGE ST.)										
177+50.0	TO	256+50.0	63	47	15622	20434	345	135	983	63
CRETE RD.										
500+00.0	TO	506+53.0			1061	1002				13
COTTAGE GROVE AVE.										
600+00.0	TO	604+40.3			792	627				39
MERIONETH DR.										
700+00.0	TO	702+50.0				427				16
CONNECTOR ROAD (OLD EXCHANGE ST.)										
800+22.0	TO	805+25.0			899	951				24
		SUB-TOTAL	63	47	18374	23441	345	135	983	155
		TOTAL	110		41815		480		983	155

WORK ZONE PAVEMENT MARKING REMOVAL

STATION		STATION	TEMPORARY PAVEMENT MARKING LINES				
			4"	6"	12"	24"	L & S
			SQ FT				
C.H. 49 (EXCHANGE ST.)							
177+50.00	TO	256+50.00	12018.7	240	983	126	110
CRETE RD.							
500+00.00	TO	506+53.00	687.7			26	
COTTAGE GROVE AVE.							
600+00.00	TO	604+40.30	473			78	
MERIONETH DR.							
700+00.00	TO	702+50.00	142.3			32	
CONNECTOR ROAD (OLD EXCHANGE ST.)							
800+22.0	TO	805+25.0	616.7			48	
		SUB-TOTAL	13938.4	240.0	983.0	310.0	110.0
		TOTAL	15581				

TELESCOPING STEEL SIGN SUPPORTS AND SIGN PANELS

LOCATION		Plan View Legend Number	TYPE	TELESCOPING STEEL SIGN SUPPORT (INCLUDES SLEEVE)	SIGN PANEL
STATION +/-	SIDE			FOOT	TYPE 1 SQ FT
C.H. 49 (EXCHANGE ST.)					
181+00.00	LT	2	R2-1	13.5	5.0
181+00.00	RT	1	R2-1	13.5	5.0
183+50.00	LT	3	W3-5	14.5	6.3
196+30.00	RT	4	W2-7L	15.8	6.3
196+30.00	RT	4	W16-8aP		3.2
198+00.00	LT	1	R2-1	13.5	5.0
199+25.00	RT	10	W1-4	14.5	6.3
199+91.00	RT	8	W1-7	13.0	8.0
203+42.00	LT	8	W1-7	13.0	8.0
206+00.00	RT	1	R2-1	13.5	5.0
207+00.00	LT	13	W2-7L	15.8	6.3
207+00.00	RT	13	W16-8aP		3.2
234+75.00	RT	7	W2-2	15.2	6.3
234+75.00	RT	7	W16-8P		1.7
235+00.00	LT	1	R2-1	13.5	5.0
238+45.00	LT	8	W1-7	13.0	8.0
242+50.00	LT	9	W2-2	15.2	6.3
242+50.00	LT	9	W16-8P		1.7
252+00.00	LT	1	R2-1	13.5	5.0
252+00.00	RT	12	R2-1	13.5	5.0
253+50.00	LT	10	W1-4	14.5	6.3
254+50.00	LT	11	W14-3	14.0	6.4
254+50.00	RT	11	W14-3	14.0	6.4
255+02.29	LT	5	R1-1	14.0	9.0
255+70.38	RT	5	R1-1	14.0	9.0
CRETE RD.					
500+49.30	LT	5	R1-1	14.0	9.0
503+00.00	LT	6	W3-1	14.5	6.3
COTTAGE GROVE AVE.					
600+68.20	LT	5	R1-1	14.0	9.0
602+80.00	LT	8	W1-7	13.0	8.0
603+19.70	LT	6	W3-1	14.5	6.3
MERIONETH DR.					
700+36.70	LT	5	R1-1	14.0	9.0
CONNECTOR ROAD (OLD EXCHANGE ST.)					
800+51.80	LT	5	R1-1	14.0	9.0
803+01.80	LT	6	W3-1	14.5	6.3
OLD EXCHANGE ST. (•USE COTTAGE GROVE AVE. STATIONING)					
603+02.23	RT 40.5'	5	R1-1	14.0	9.0
603+02.23	RT 290.5'	6	W3-1	14.5	6.3
			TOTAL	436	221.9

SIGN PANEL REMOVAL AND RELOCATION

LOCATION		DESCRIPTION	REMOVE SIGN PANEL ASSEMBLY TYPE A	RELOCATE SIGN PANEL ASSEMBLY TYPE A
STATION +/-	SIDE		EACH	
C.H. 49 (EXCHANGE ST.)				
181+30.00	RT	Speed Limit 50	1	
181+33.00	LT	Speed Limit 40	1	
187+33.00	LT	Speed Zone Ahead	1	
191+27.00	RT	Reverse Curve w/ 40 mph Advisory	1	
195+56.00	RT	"T" Intersection w/	1	
196+44.00	LT	Speed Limit 50	1	
198+44.00	RT	Street Signs		1
198+74.00	LT	Chevron - 1 sided	1	
200+24.00	RT	Chevron - 2 sided	1	
200+89.00	LT	Church Sign (not on plan)	Removed by others	
201+70.00	RT	Chevron - 2 sided (old rd)	1	
241+68.92	RT	Speed Limit 50 (old rd)	1	
254+04.72	LT	Speed Limit 50	1	
255+47.00	RT	Stop Sign	1	
255+54.00	RT	Street Signs		1
CRETE RD.				
499+87.12	LT	Stop Sign	1	
500+86.50	LT	Speed Limit 35		1
502+11.23	LT	No Parking	1	
502+11.23	LT	Vehicle Sticker Renewal	1	
CONNECTOR ROAD (OLD EXCHANGE ST.)				
800+88.00	LT	Chevron - 2 sided (old rd)	1	
801+98.00	RT	Chevron - 2 sided	1	
803+14.00	RT	"T" Intersection w/ Crete Road Sign	1	
803+45.00	RT	Chevron - 2 sided	1	
804+68.00	RT	Chevron - 2 sided	1	
COTTAGE GROVE AVE.				
603+14.00	RT	Stop Sign	1	
MERIONETH DR.				
701+22.00	RT	Wood Post & Street Sign		1
701+31.00	LT	Stop Sign	1	
702+35.00	LT	Speed Limit 25		1
702+35.00	LT	Slow Children at Play		1
		TOTAL	22	6

WOVEN WIRE GATES, 4' X 24' DOUBLE

LOCATION				EACH
STATION +/-	TO	STATION +/-	SIDE	
C.H. 49 (EXCHANGE ST.)				
184+48.17	TO	184+72.17	RT	1
			TOTAL	1

WOVEN WIRE FENCE, 4'

LOCATION				FOOT
STATION +/-	TO	STATION +/-	SIDE	
C.H. 49 (EXCHANGE ST.)				
177+50.00	TO	179+45.57	LT	216
179+82.03	TO	184+44.64	RT	467
179+77.57	TO	184+44.17	LT	477
184+76.17	TO	188+06.98	LT	337
184+76.64	TO	198+04.51	RT	1320
198+36.51	TO	200+86.86	RT	251
			TOTAL	3068

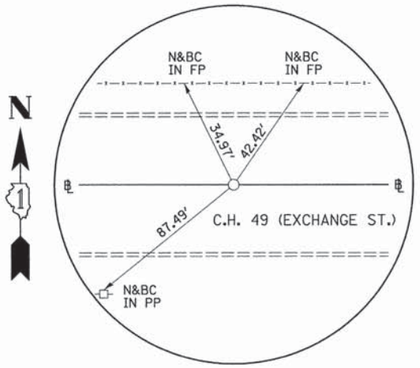
FILE NAME = v:\2456\2456q008.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

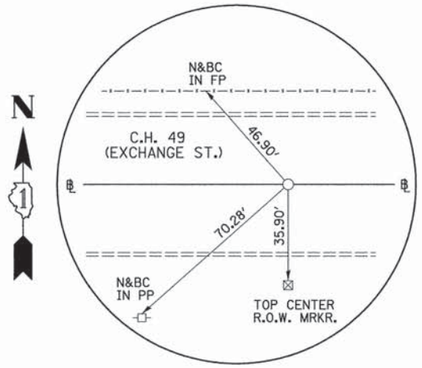
C.H. 49 (EXCHANGE ST.)
SCHEDULES OF QUANTITIES

SCALE: N/A | SHEET NO. 6 OF 6 SHEETS | STA. N/A | TO STA. N/A

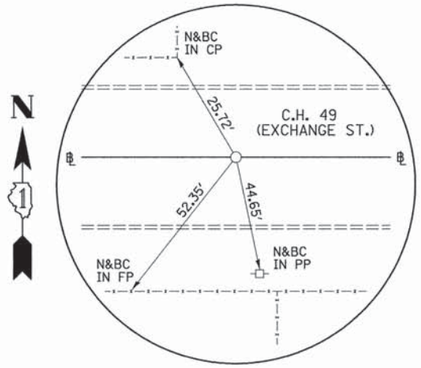
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	19
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



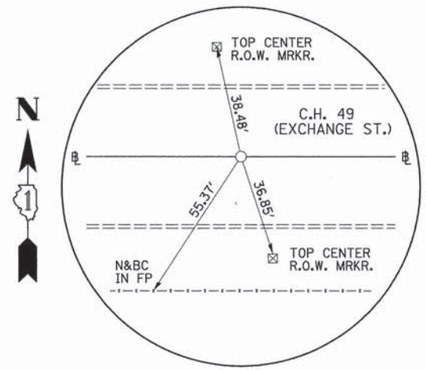
P.O.T. STA. 170+82.63
C.H. 49 (EXCHANGE ST.)
N. 1,741,706.00, E. 1,180,660.06
(MAG NAIL)



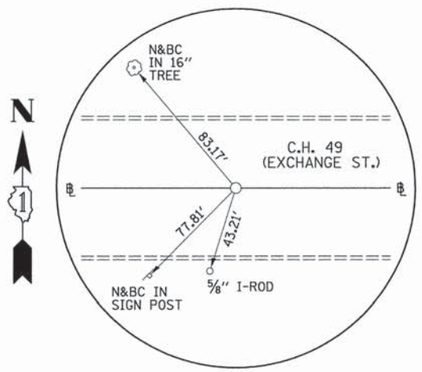
P.C. STA. 185+00.91
C.H. 49 (EXCHANGE ST.)
N. 1,741,959.78, E. 1,182,055.45
(MAG NAIL)



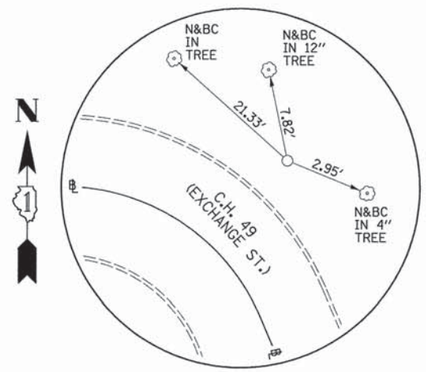
P.I. STA. 188+08.63
C.H. 49 (EXCHANGE ST.)
N. 1,742,014.84 E. 1,182,358.20
(MAG NAIL)



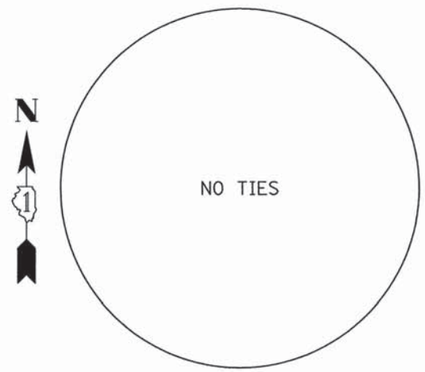
P.T. STA. 191+15.50
C.H. 49 (EXCHANGE ST.)
N. 1,742,030.59, E. 1,182,665.52
(MAG NAIL)



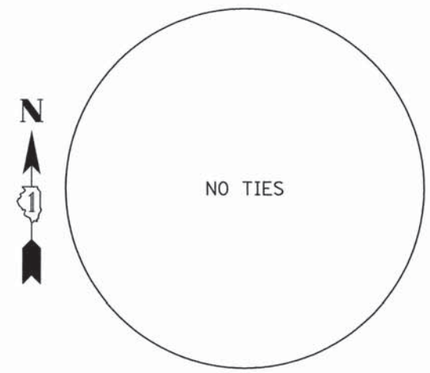
P.C. STA. 201+61.80
C.H. 49 (EXCHANGE ST.)
N. 1,742,084.12, E. 1,183,710.45
(5/8" I-ROD, BURIED 18")



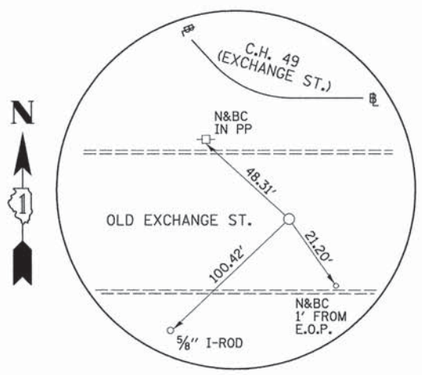
P.I. STA. 214+58.26
C.H. 49 (EXCHANGE ST.)
N. 1,742,150.45, E. 1,185,005.21
(5/8" I-ROD)



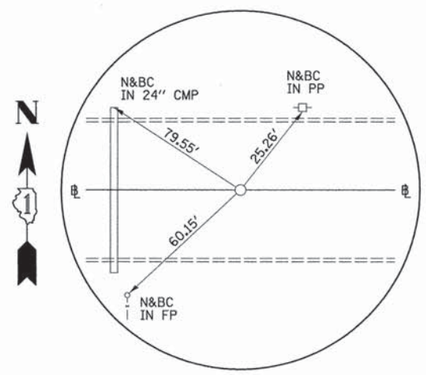
P.T. STA. 226+37.72
C.H. 49 (EXCHANGE ST.)
N. 1,741,333.91, E. 1,186,012.21
(5/8" I-ROD, BURIED 18")



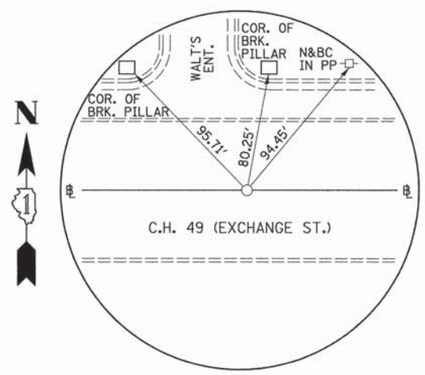
P.C. STA. 228+43.22
C.H. 49 (EXCHANGE ST.)
N. 1,741,204.48, E. 1,186,171.83
(5/8" I-ROD, BURIED 18")



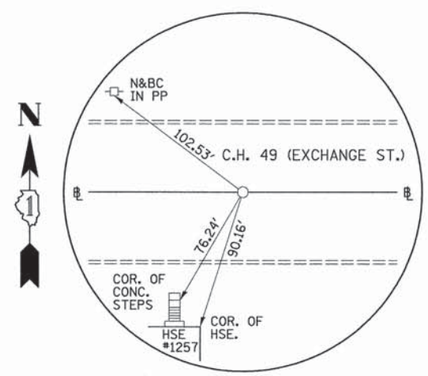
P.I. STA. 240+82.74
C.H. 49 (EXCHANGE ST.)
N. 1,740,423.79, E. 1,187,134.61
(MAG NAIL)



P.T. STA. 252+19.33
C.H. 49 (EXCHANGE ST.)
N. 1,740,450.63, E. 1,188,373.85
(MAG NAIL)



P.O.T. STA. 259+19.69
C.H. 49 (EXCHANGE ST.)
N. 1,740,465.80, E. 1,189,074.06
(MAG NAIL)



P.O.T. STA. 269+19.69
C.H. 49 (EXCHANGE ST.)
N. 1,740,487.46, E. 1,189,074.06
(MAG NAIL)

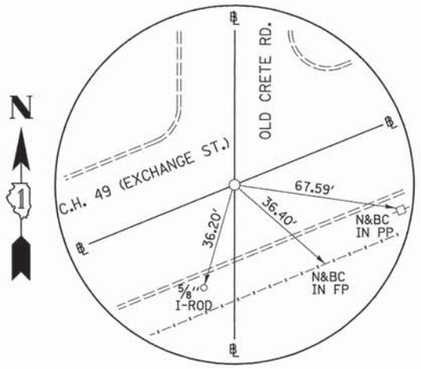
FILE NAME = V:\2456\2456a001.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

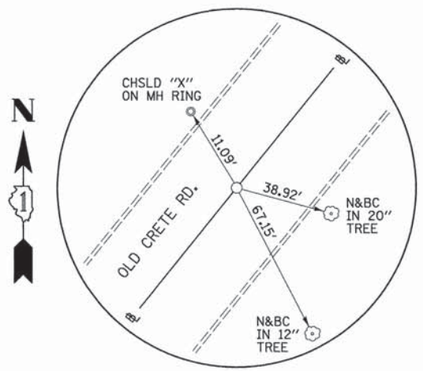
C.H. 49 (EXCHANGE ST.), TIE POINTS

SCALE: N/A | SHEET NO. 1 OF 5 SHEETS | STA. N/A | TO STA. N/A

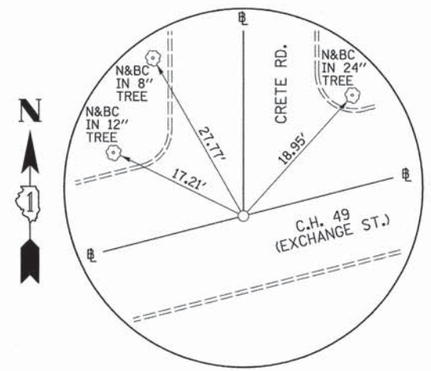
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	20
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



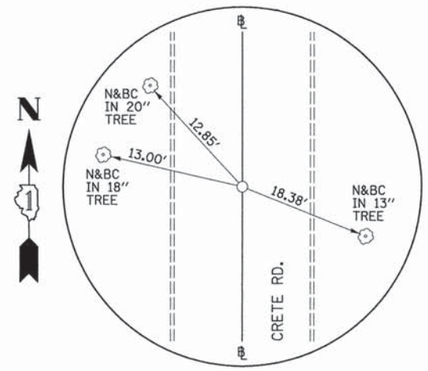
P.O.T. STA. 300+00.00
OLD CRETE RD.
N. 1,742,065.35, E. 1,183,344.07
(MAG NAIL)



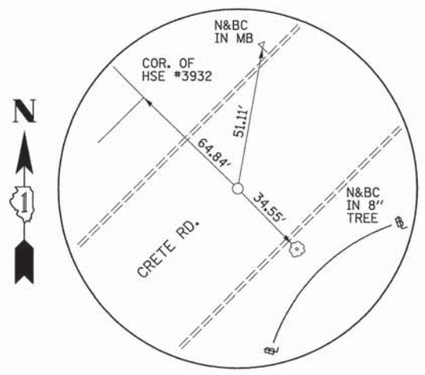
P.O.T. STA. 311+00.00
OLD CRETE RD.
N. 1,742,930.63, E. 1,184,023.26
(MAG NAIL)



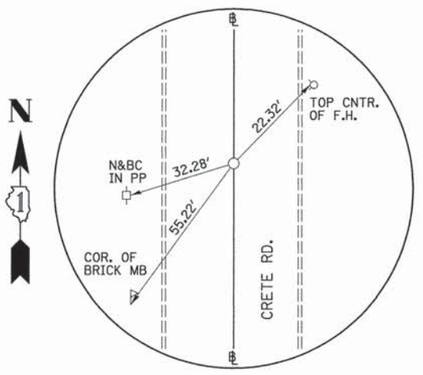
P.T. STA. 500+00.00
CRETE RD.
N. 1,742,075.65, E. 1,183,548.87
(5/8" I-ROD)



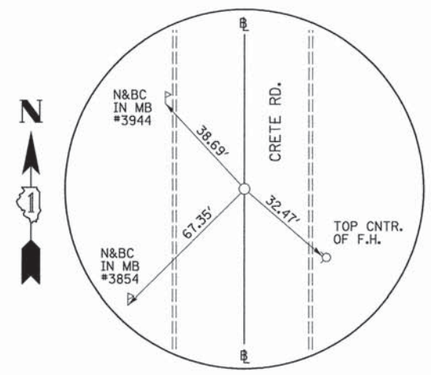
P.C. STA. 501+50.61
CRETE RD.
N. 1,742,222.94, E. 1,183,580.36
(5/8" I-ROD)



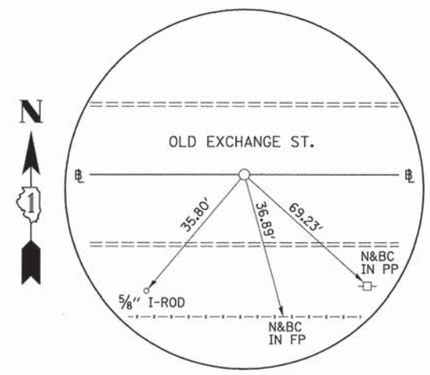
P.I. STA. 503+51.11
CRETE RD.
N. 1,742,419.00, E. 1,183,622.27
(MAG NAIL)



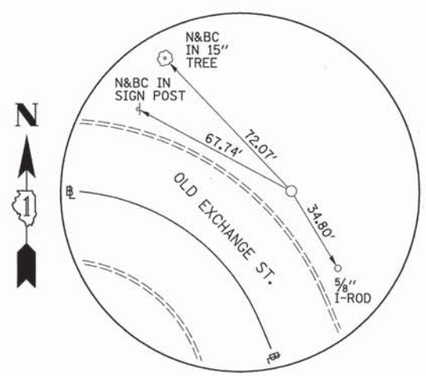
P.T. STA. 505+44.40
CRETE RD.
N. 1,742,575.67, E. 1,183,747.39
(MAG NAIL)



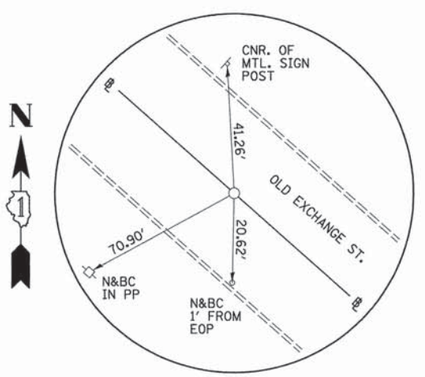
P.O.T. STA. 508+62.00
CRETE RD.
N. 1,742,823.84 E. 1,183,945.58
(MAG NAIL)



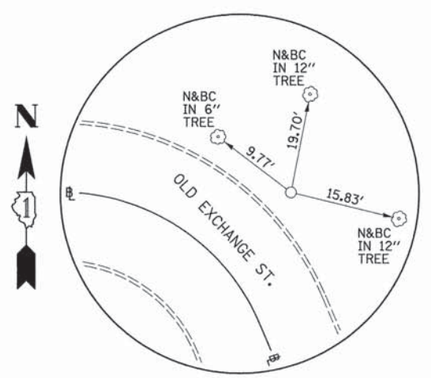
P.C. STA. 77+10.41
OLD EXCHANGE ST.
N. 1,742,065.25, E. 1,183,342.17
(MAG NAIL)



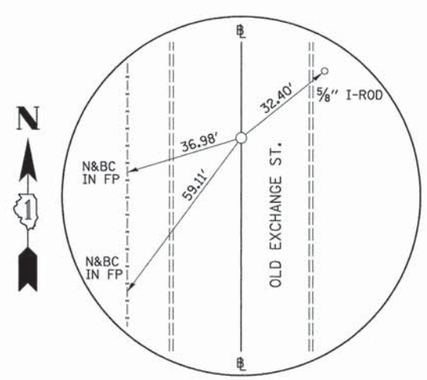
P.I. STA. 80+65.11
OLD EXCHANGE ST.
N. 1,742,083.40, E. 1,183,696.41
(5/8" I-ROD)



P.R.C. STA. 83+96.57
OLD EXCHANGE ST.
N. 1,741,890.86, E. 1,183,994.30
(MAG NAIL)



P.I. STA. 88+03.48
OLD EXCHANGE ST.
N. 1,741,669.99, E. 1,184,336.05
(5/8" I-ROD)



P.T. STA. 91+44.43
OLD EXCHANGE ST.
N. 1,741,263.15, E. 1,184,343.68
(MAG NAIL)

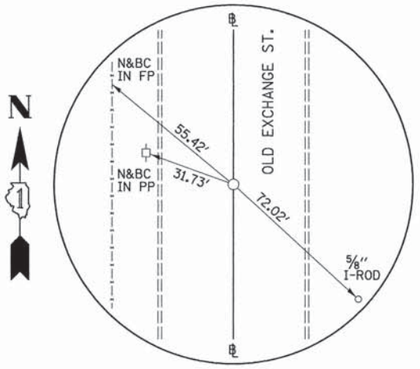
FILE NAME = v:\2456\2456a002.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

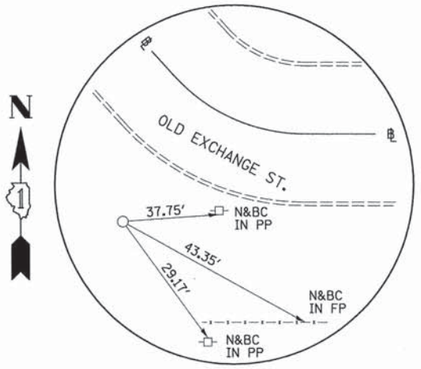
OLD CRETE RD., CRETE RD. & OLD EXCHANGE ST., TIE POINTS

SCALE: N/A | SHEET NO. 2 OF 5 SHEETS | STA. N/A | TO STA. N/A

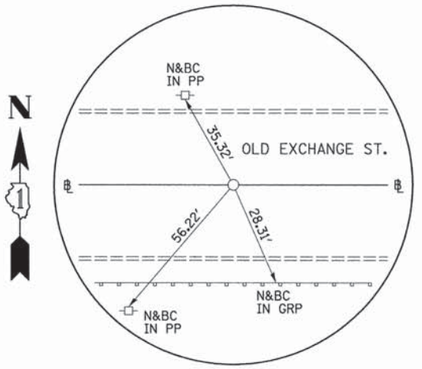
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	21
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



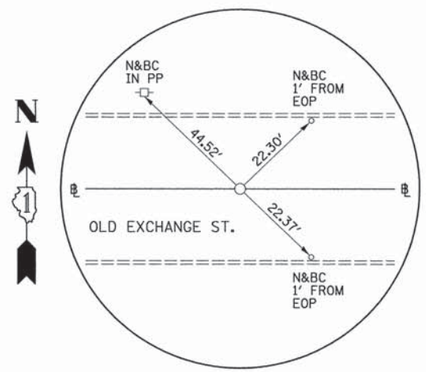
P.C. STA. 94+24.19
OLD EXCHANGE ST.
N. 1,740,983.44, E. 1,184,348.92
(MAG NAIL)



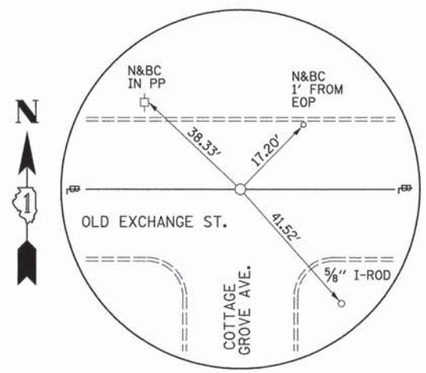
P.I. STA. 100+63.30
OLD EXCHANGE ST.
N. 1,740,344.44, E. 1,184,360.91
(3/4" I-ROD)



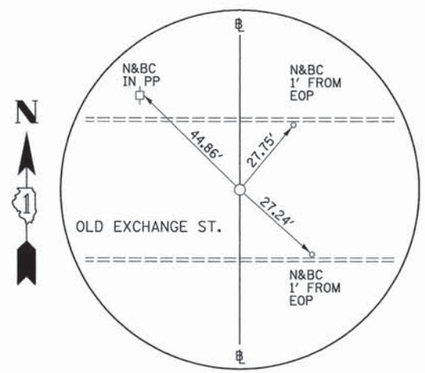
P.T. STA. 104+24.37
OLD EXCHANGE ST.
N. 1,740,362.93, E. 1,184,999.75
(MAG NAIL)



P.O.T. STA. 115+00.00
OLD EXCHANGE ST.
N. 1,740,394.05, E. 1,186,074.93
(MAG NAIL)



P.O.T. STA. 124+33.07
OLD EXCHANGE ST.
N. 1,740,421.04, E. 1,187,007.60
(MAG NAIL)



P.O.T. STA. 135+00.00
OLD EXCHANGE ST.
N. 1,740,444.15, E. 1,188,074.29
(MAG NAIL)

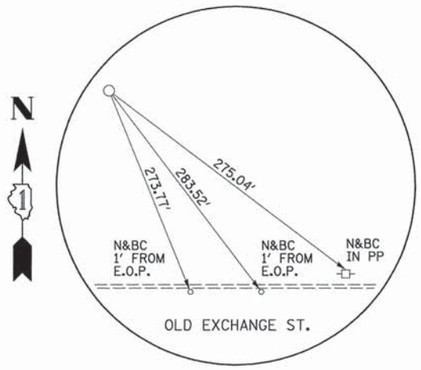
FILE NAME = v:\2456\2456a003.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

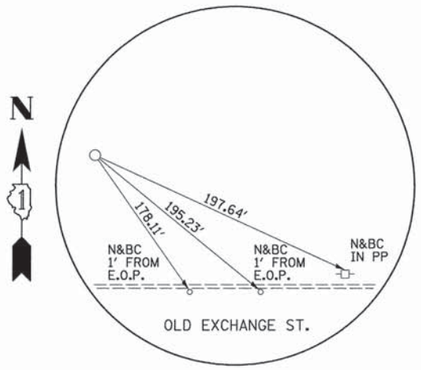
OLD EXCHANGE ST., TIE POINTS

SCALE: N/A | SHEET NO. 3 OF 5 SHEETS | STA. N/A | TO STA. N/A

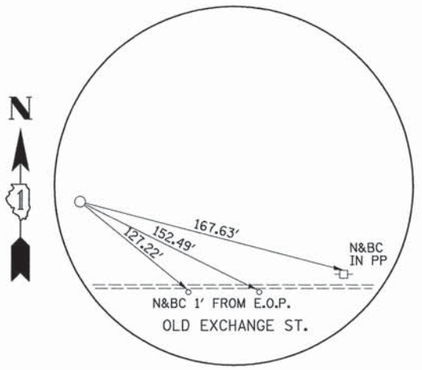
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	22
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



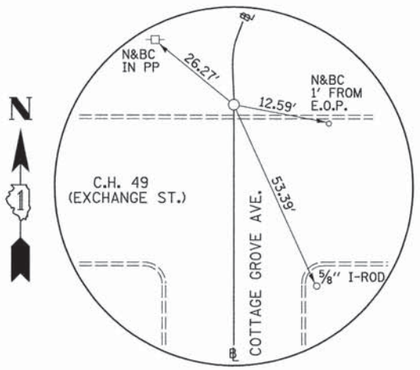
P.O.T. STA. 600+00.00
COTTAGE GROVE AVE.
N. 1,740,697.14, E. 1,187,031.55
(5/8" I-ROD (BURIED 18"))



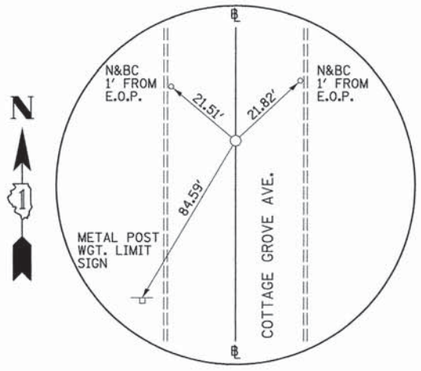
P.C. STA. 601+10.00
COTTAGE GROVE AVE.
N. 1,740,587.90, E. 1,187,018.65
(5/8" I-ROD (BURIED 18"))



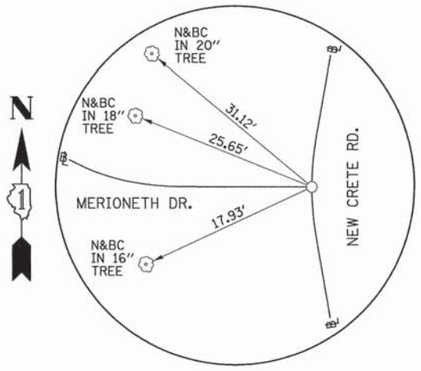
P.I. STA. 601+85.09
COTTAGE GROVE AVE.
N. 1,740,513.37, E. 1,187,009.50
(5/8" I-ROD (BURIED 18"))



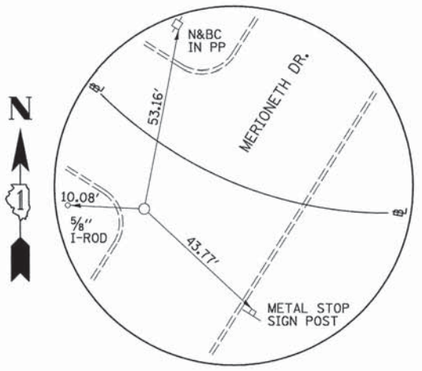
P.T. STA. 602+60.00
COTTAGE GROVE AVE.
N. 1,740,483.28, E. 1,187,009.50
(5/8" I-ROD (FLUSH))



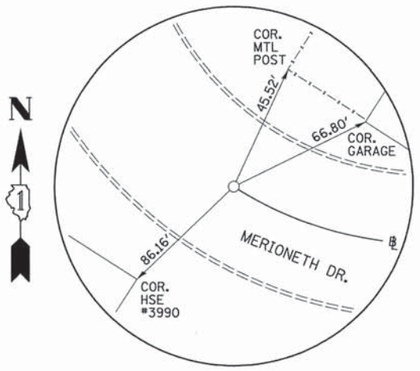
P.O.T. STA. 606+13.69
COTTAGE GROVE AVE.
N. 1,740,084.62, E. 1,187,014.37
(MAG NAIL)



P.C. STA. 700+00.00
MERIONETH DR.
N. 1,742,204.40, E. 1,183,576.39
(MAG NAIL)



P.I. STA. 701+27.67
MERIONETH DR.
N. 1,742,257.24, E. 1,183,460.17
(MAG NAIL)



P.T. STA. 702+50.00
MERIONETH DR.
N. 1,742,359.34, E. 1,183,383.51
(MAG NAIL)

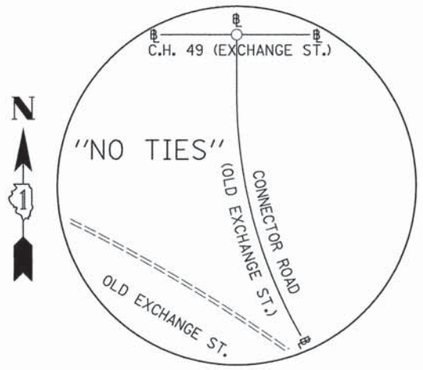
FILE NAME = vs\2456\2456a004.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

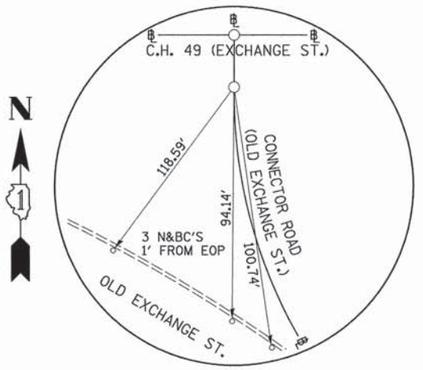
COTTAGE GROVE RD. & MERIONETH DR., TIE POINTS

SCALE: N/A | SHEET NO. 4 OF 5 SHEETS | STA. N/A | TO STA. N/A

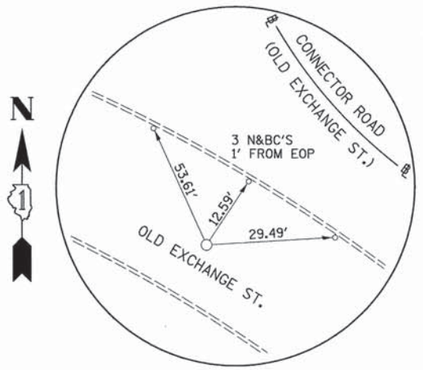
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	23
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



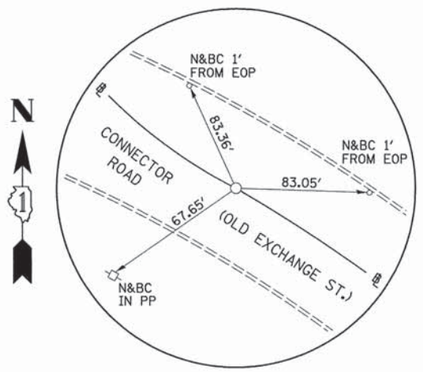
P.O.T. STA. 800+00.00
CONNECTOR ROAD (OLD EXCHANGE ST.)
N. 1,742,088.54, E. 1,183,890.19



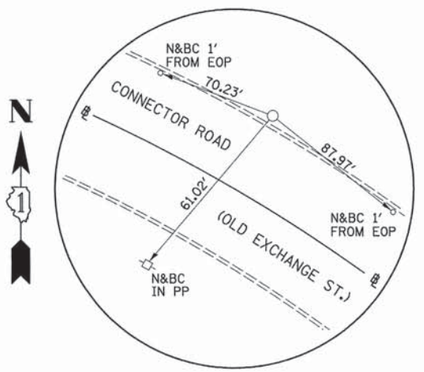
P.C. STA. 800+21.65
CONNECTOR ROAD (OLD EXCHANGE ST.)
N. 1,742,066.89, E. 1,183,890.19
(5/8" I-ROD (BURIED 12"))



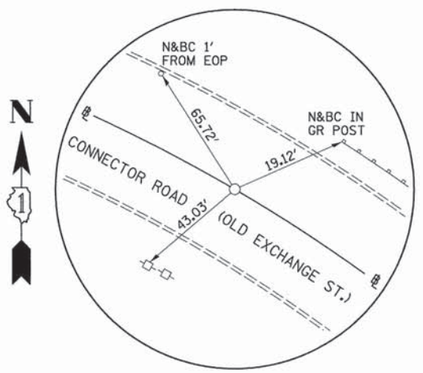
P.I. STA. 801+32.55
CONNECTOR ROAD (OLD EXCHANGE ST.)
N. 1,741,955.99, E. 1,183,890.19
(MAG NAIL)



P.R.C. STA. 802+24.17
CONNECTOR ROAD (OLD EXCHANGE ST.)
N. 1,741,897.25, E. 1,183,984.26
(MAG NAIL)



P.I. STA. 803+76.74
CONNECTOR ROAD (OLD EXCHANGE ST.)
N. 1,741,816.43, E. 1,184,113.67
(I-ROD)



P.T. STA. 805+25.35
CONNECTOR ROAD (OLD EXCHANGE ST.)
N. 1,741,692.14, E. 1,184,202.14
(MAG NAIL)

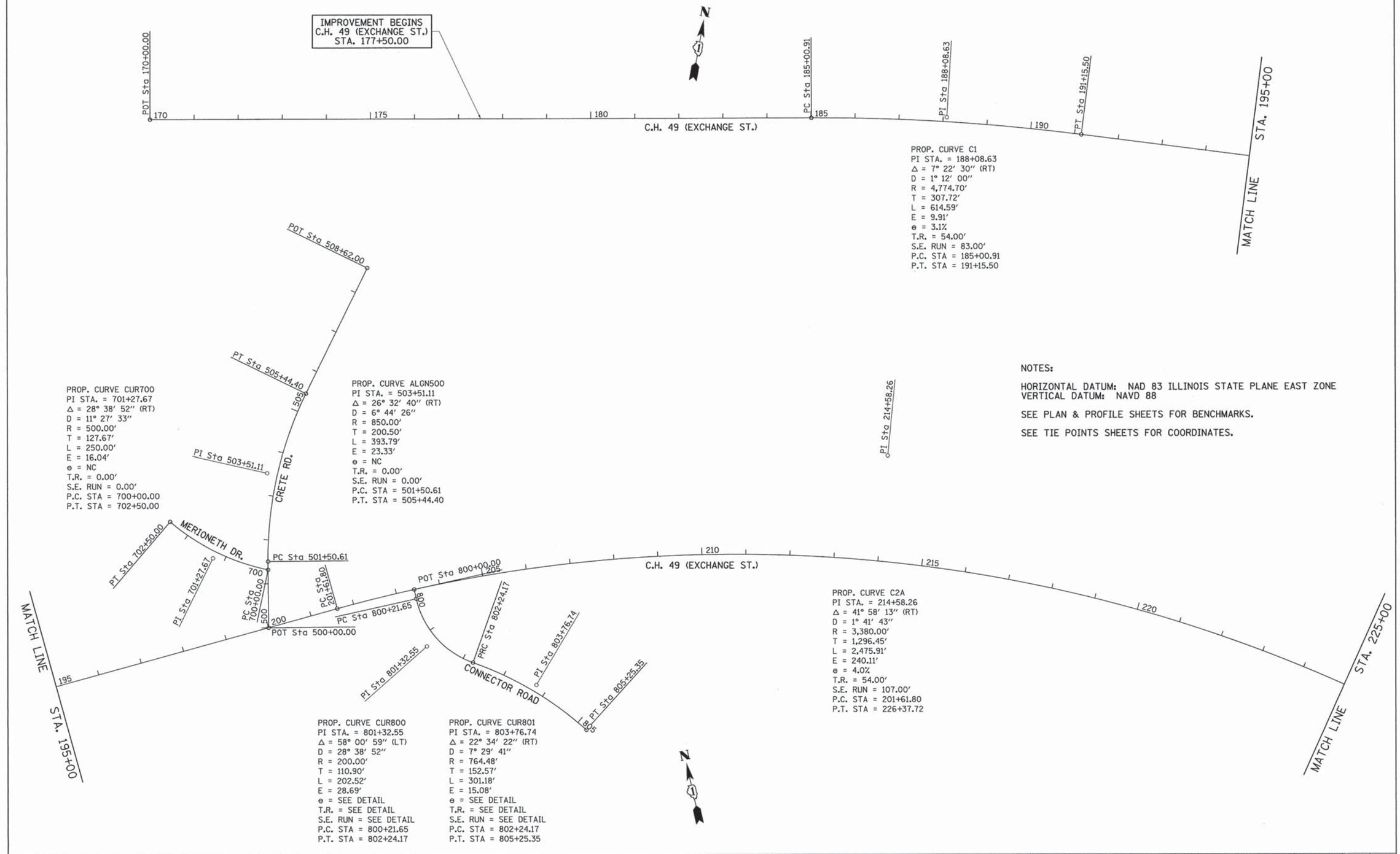
FILE NAME = V:\2456\2456e005.dgn	USER NAME = smountel	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONNECTOR ROAD (OLD EXCHANGE ST.), TIE POINTS

SCALE: N/A | SHEET NO. 5 OF 5 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	24
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



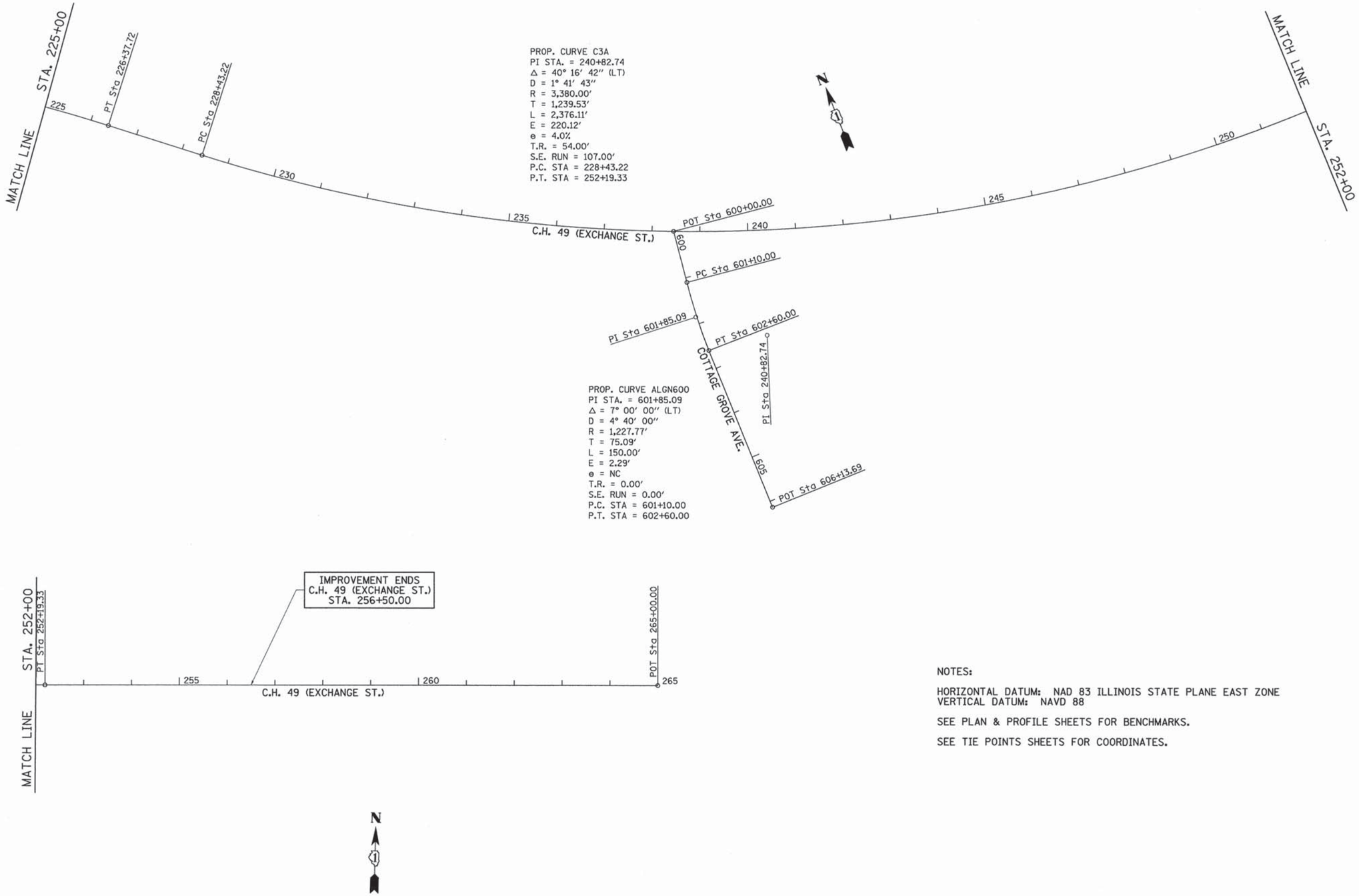
FILE NAME = v:\2456\2456a006.dgn	USER NAME = smountel	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.), CRETE RD., CONNECTOR ROAD & MERIONETH DR.
ALIGNMENT PLAN

SCALE: 1"=100' | SHEET NO. 1 OF 2 SHEETS | STA. 170+00 TO STA. 225+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	25
		CONTRACT NO. 63672		
	ILLINOIS FED. AID PROJECT			



NOTES:

HORIZONTAL DATUM: NAD 83 ILLINOIS STATE PLANE EAST ZONE
VERTICAL DATUM: NAVD 88

SEE PLAN & PROFILE SHEETS FOR BENCHMARKS.

SEE TIE POINTS SHEETS FOR COORDINATES.

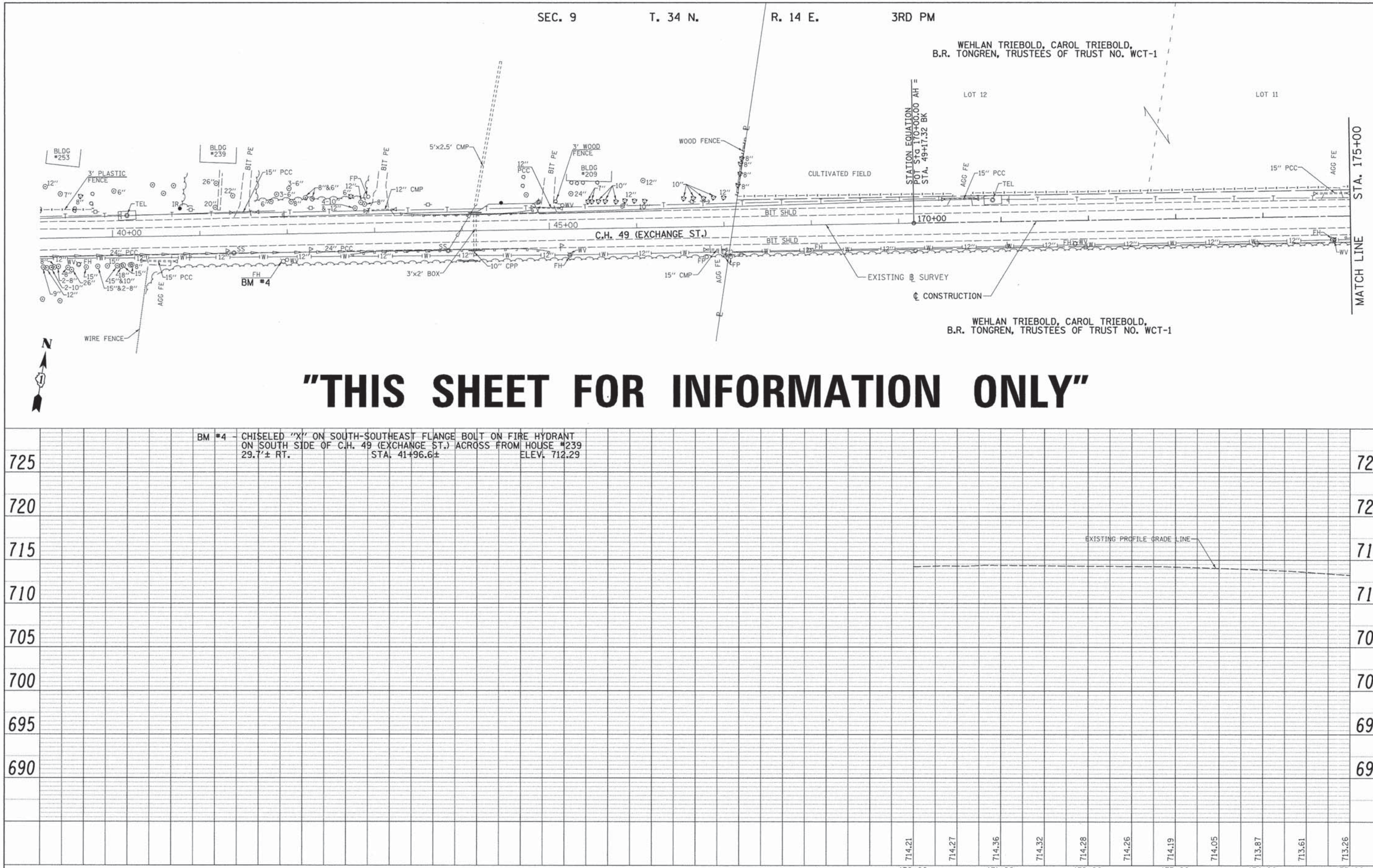
FILE NAME = v:\2456\2456a007.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/27/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.) & COTTAGE GROVE AVE.
ALIGNMENT PLAN

SCALE: 1"=100' | SHEET NO. 2 OF 2 SHEETS | STA. 225+00 TO STA. 265+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	26
		CONTRACT NO. 63672		
	ILLINOIS FED. AID PROJECT			



FILE NAME = v:\2456\2456p000.dgn

USER NAME = smountsl
PLOT SCALE = 50.000 '/ in.
PLOT DATE = 8/15/2013

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

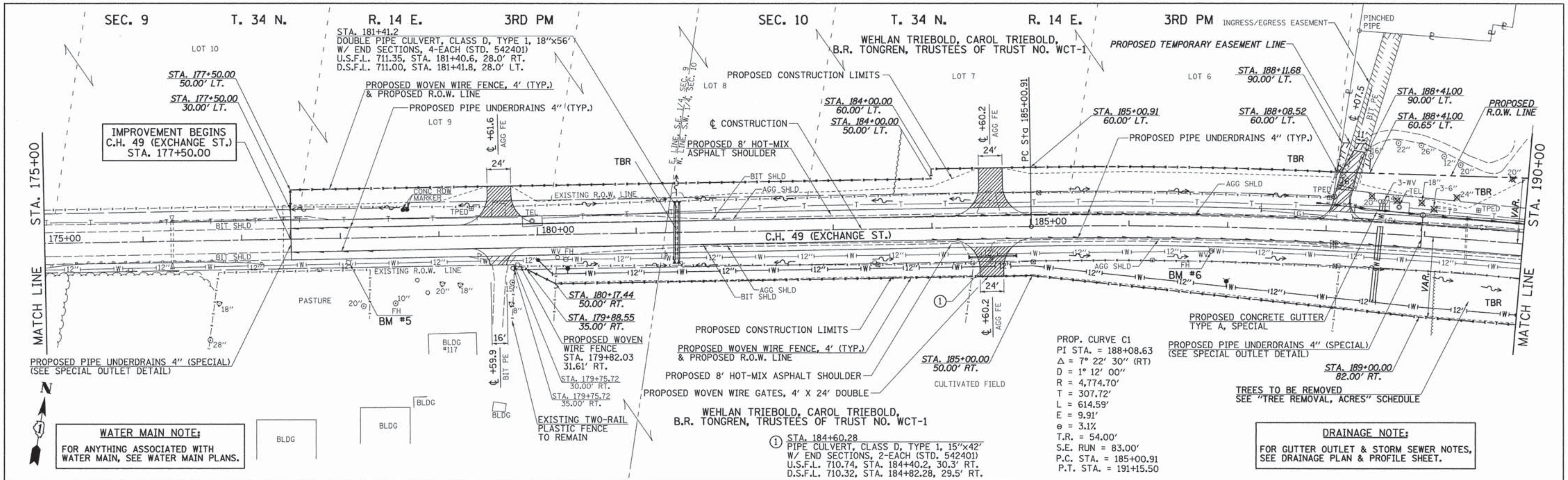
C.H. 49 (EXCHANGE ST.) PLAN & PROFILE

SCALE: H=50 V=5 | SHEET NO. 1 OF 7 SHEETS | STA. 170+00 TO STA. 175+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	27

CONTRACT NO. 63672

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



WATER MAIN NOTE:

FOR ANYTHING ASSOCIATED WITH WATER MAIN, SEE WATER MAIN PLANS.

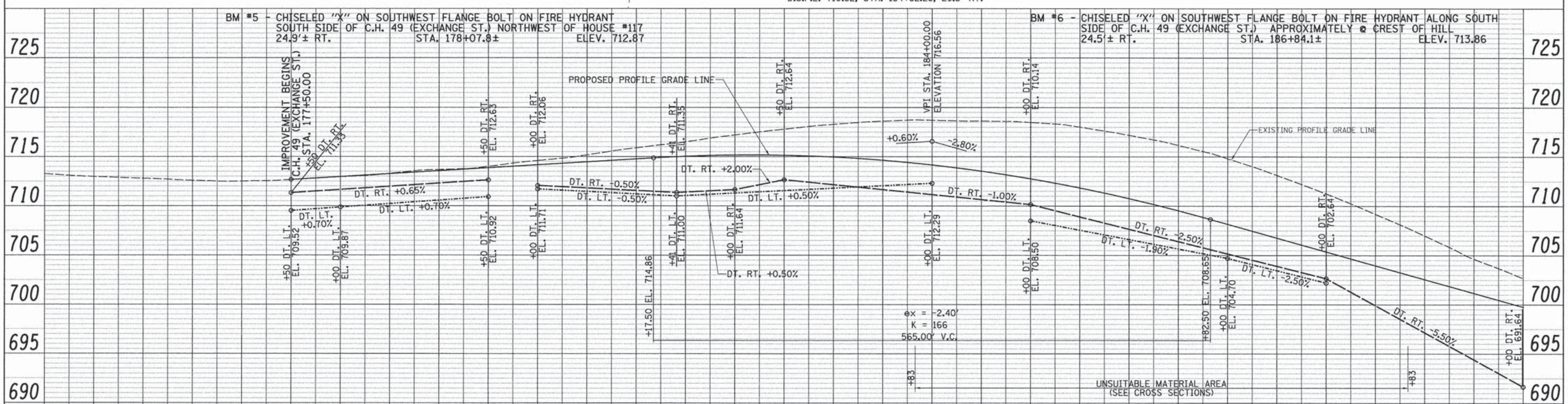
PROP. CURVE C1
PI STA. = 188+08.63
Δ = 7° 22' 30" (RT)
D = 1° 12' 00"
R = 4,774.70'
T = 307.72'
L = 614.59'
E = 9.91'
e = 3.1%
T.R. = 54.00'
S.E. RUN = 83.00'
P.C. STA. = 185+00.91
P.T. STA. = 191+15.50

DRAINAGE NOTE:

FOR GUTTER OUTLET & STORM SEWER NOTES, SEE DRAINAGE PLAN & PROFILE SHEET.

BM #5 - CHISELED "X" ON SOUTHWEST FLANGE BOLT ON FIRE HYDRANT SOUTH SIDE OF C.H. 49 (EXCHANGE ST.) NORTHWEST OF HOUSE #117 24.9'± RT. STA. 178+07.8± ELEV. 712.87

BM #6 - CHISELED "X" ON SOUTHWEST FLANGE BOLT ON FIRE HYDRANT ALONG SOUTH SIDE OF C.H. 49 (EXCHANGE ST.) APPROXIMATELY @ CREST OF HILL 24.5'± RT. STA. 186+84.1± ELEV. 713.86



STA.	LT. DT.	RT. DT.	EX. PROF.	PR. PROF.
175+00			713.26	
175+50			712.98	
176+00			712.79	
176+50			712.58	
177+00			712.50	
177+50	709.52	711.33	712.66	712.66
178+00	709.87	711.65	712.94	712.96
178+50	710.22	711.97	713.29	713.26
179+00	710.57	712.30	713.68	713.56
179+50	710.92	712.63	714.00	713.86
180+00	711.71	712.06	714.59	714.16
180+50	711.46	711.81	715.17	714.46
181+00	711.21	711.56	715.89	714.76
181+50	711.04	711.39	716.49	715.02
182+00	711.29	711.64	717.20	715.15
182+50	711.54	712.64	717.79	715.13
183+00	711.79	712.14	718.28	714.95
183+50	712.04	711.64	718.61	714.63
184+00	712.29	711.14	718.70	714.15
184+50		710.64	718.63	713.53
185+00	708.50	710.14	718.48	712.75
185+50	707.55	708.89	718.01	711.83
186+00	706.60	707.64	717.18	710.75
186+50	705.65	706.39	716.15	709.52
187+00	704.70	705.14	714.81	708.16
187+50	703.45	703.89	713.12	706.76
188+00	702.20	702.64	711.25	705.36
188+50		699.89	709.19	703.96
189+00		697.14	707.00	702.56
189+50		694.39	704.65	701.16
190+00			702.67	699.76

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK NO. — BY — DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTAT'NS CHK'D, NOTE BOOK NO. — BY — DATE

FILE NAME = v:\2456\2456p001.dgn	USER NAME = smounts1	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.) PLAN & PROFILE

SCALE: H=50 V=5 | SHEET NO. 2 OF 7 SHEETS | STA. 175+00 TO STA. 190+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	28

CONTRACT NO. 63672

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

JAMES J. SASAKI
AND NANCY A. SASAKI

BLOCK 13
LOT 2

PROPOSED STEEL
PLATE BEAM
GUARDRAIL, TYPE A,
6 FOOT POSTS W/
END SHOES

BLDG
#195

LOT 14
BLOCK 14

① STA. 193+98.68
PROPOSED DOUBLE 12'x6'x92' RCBC
U.S.F.L. 680.39, STA. 194+02.59, 44.66' RT.
D.S.F.L. 680.20, STA. 193+93.68, 47.63' LT.

LOT 8

TREES TO BE REMOVED
SEE "TREE REMOVAL, ACRES" SCHEDULE

LOT 9

PROPOSED CONCRETE
GUTTER TYPE A,
SPECIAL

PROPOSED CONCRETE
GUTTER TYPE A,
SPECIAL

DOUGLAS R. JOHNSON
& LOUISE A. JOHNSON

PROPOSED R.O.W. LINE

STA. 193+00.00
90.00' LT.

STA. 194+74.30
90.00' LT.

STA. 194+74.40
70.48' LT.

TREES TO BE REMOVED
SEE "TREE REMOVAL, ACRES" SCHEDULE

EXISTING R.O.W. LINE STA. 198+03.80
71.94' LT.

STA. 194+74.56
40.55' LT.

IPT Sta 191+15.50

STA. 190+00

MATCH LINE

190+00

195+00

C.H. 49 (EXCHANGE ST.)

℄ CONSTRUCTION

STA. 191+15.50
80.00' RT.

PROPOSED 8' HOT-MIX
ASPHALT SHOULDER (TYP.)

PROPOSED PIPE
UNDERDRAINS
4" (TYP.)

TREES TO BE REMOVED
SEE "TREE REMOVAL, ACRES" SCHEDULE

PROPOSED WOVEN WIRE FENCE, 4' (TYP.)
& PROPOSED R.O.W. LINE

BM #7

℄ +20.5
AGG FE

STA. 198+20.5
PIPE CULVERT, CLASS D, TYPE 1, 18"x48'
W/ END SECTIONS, 2-EACH (STD. 542401)
U.S.F.L. 696.60, STA. 198+42.5, 41.8' RT.
D.S.F.L. 695.24, STA. 197+94.5, 40.9' RT.

WATER MAIN NOTE:
FOR ANYTHING ASSOCIATED WITH
WATER MAIN, SEE WATER MAIN PLANS.

DRAINAGE NOTE:
FOR GUTTER OUTLET & STORM SEWER NOTES,
SEE DRAINAGE PLAN & PROFILE SHEET.

WEHLAN TRIEBOLD, CAROL TRIEBOLD,
B.R. TONGREN, TRUSTEES OF TRUST NO. WCT-1

STA. 200+00.00 (C.H. 49 (EXCHANGE ST.)) =
STA. 500+00.00 (CRETE RD.)

SEC. 10 T. 34 N. R. 14 E. 3RD PM

RICHARD H. ANDRE &
KENNETH W. ANDRE, TRUSTEE

PROPOSED CONSTRUCTION LIMITS (TYP.)

PROPOSED R.O.W. LINE

STA. 200+82.45
133.64' LT.

STA. 203+41.62 (C.H. 49 (EXCHANGE ST.)) =
P.O.T. STA. 800+00.00
(CONNECTOR ROAD) (OLD EXCHANGE ST.))

STA. 201+20.00
80.00' LT.

PROPOSED 8' HOT-MIX
ASPHALT SHOULDER (TYP.)

CULTIVATED FIELD

OLD CRETE RD.

CRETE RD.

75°00'00"

90°00'00"
PC Sta 800+21.65

STA. 205+00

MATCH LINE

PC Sta 201+61.80

EXISTING R.O.W. LINE

OLD EXCHANGE ST.

STA. 200+74.92
73.06' RT.

STA. 200+86.86
80.00' RT.

PROPOSED PIPE
UNDERDRAINS
4" (TYP.)

PROPOSED CONSTRUCTION
LIMITS (TYP.)

FRANK McCULLY

CONNECTOR ROAD
(OLD EXCHANGE ST.)

VPI STA. 202+50.00
ELEVATION 714.36

PRC Sta 802+24.17

BM #7 - CHISELED "X" ON SOUTHWEST FLANGE BOLT ON FIRE HYDRANT ALONG SOUTH SIDE OF C.H. 49 (EXCHANGE ST.) ACROSS FROM CRETE RD.
26.4'± RT. STA. 196+68.1± ELEV. 700.80

ex = 6.59
K = 137
850.00' V.C.

ex = -3.39
K = 165
670.00' V.C.

EXISTING GROUND LINE

EXISTING PROFILE GRADE LINE

PROPOSED PROFILE GRADE LINE

+25.00 EL. 699.06

+50 DT. LT.
EL. 688.35

DT. RT. -2.85%

DT. LT. -4.00%

DT. LT. -3.00%

+00 DT. LT.
EL. 682.35

+00 DT. RT.
EL. 680.25

+00 DT. LT.
EL. 679.35

-2.80%

+3.40%

VPI STA. 194+50.00
ELEVATION 687.16

DT. RT. +3.80%

+00 DT. RT.
EL. 695.45

+15.00 EL. 702.97

+75.00 EL. 701.61

DT. RT. +2.70%

+00 DT. RT.
EL. 700.85

DT. RT. +3.10%

+00 DT. LT.
EL. 704.30

+00 DT. LT.
EL. 708.48

+3.40%

-0.65%

+00 DT. RT.
EL. 703.95

DT. RT. +4.18%

DT. RT. +1.79%

+50 DT. RT.
EL. 706.64

DT. LT. -0.60%

+00 DT. LT.
EL. 706.68

+00 DT. RT.
EL. 707.50

DT. RT. -1.75%

+00 DT. RT.
EL. 705.75

+83

UNSUITABLE MATERIAL AREA
(SEE CROSS SECTIONS)

+83

	190+00	191+00	192+00	193+00	194+00	195+00	196+00	197+00	198+00	199+00	200+00	201+00	202+00	203+00	204+00	205+00
LT. DT.	691.64	690.22	688.80	688.35	686.35	684.35	682.35	680.85	679.35	682.15	684.05	685.95	687.85	689.75	691.65	693.55	695.45	696.80	698.15	699.50	700.85	702.40	704.30	706.39	708.48	708.18	707.88	707.58	707.28	706.98	706.68	LT. DT.
RT. DT.	691.64	690.22	688.80	687.37	685.95	684.52	683.10	681.67	680.25	682.15	684.05	685.95	687.85	689.75	691.65	693.55	695.45	696.80	698.15	699.50	700.85	702.40	703.95	704.85	705.75	706.64	707.88	707.58	707.50	706.63	706.68	RT. DT.
EX. PROF.	702.67	700.57	698.51	696.54	694.86	693.60	692.69	692.00	691.47	691.65	692.24	693.12	694.53	696.52	698.81	701.43	704.14	706.51	708.05	708.84	709.62	710.35	710.56	710.73	711.00	711.34	711.07	710.71	710.26	710.20	709.91	EX. PROF.
PR. PROF.	699.76	698.38	697.16	696.13	695.27	694.60	694.11	693.81	693.68	693.74	693.98	694.41	695.01	695.80	696.77	697.93	699.26	700.78	702.46	704.12	705.64	707.01	708.22	709.29	710.20	710.96	711.58	712.04	712.35	712.51	712.51	PR. PROF.

FILE NAME = v:\2456\2456p002.dgn	USER NAME = smounts1	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/27/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

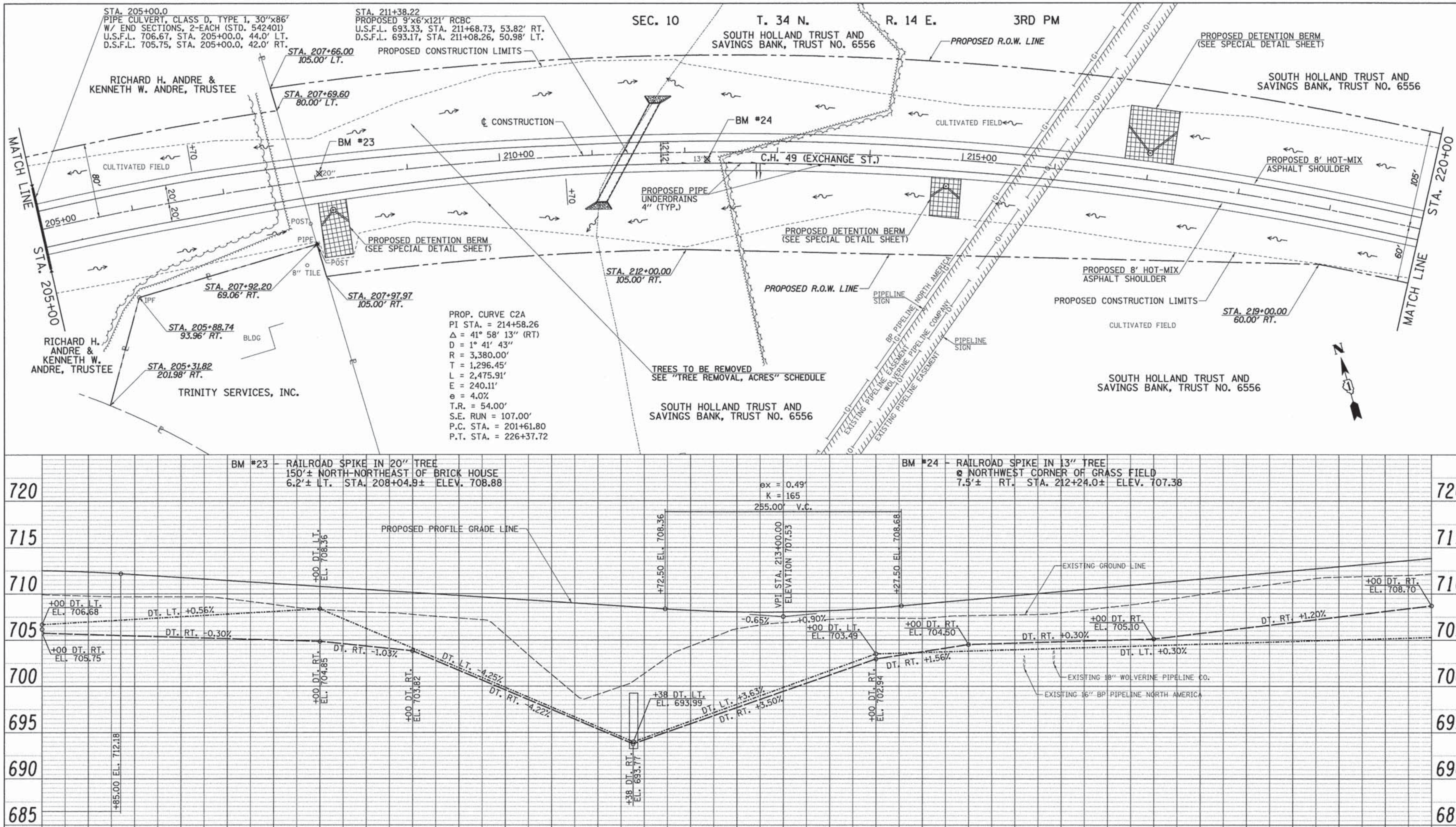
C.H. 49 (EXCHANGE ST.) PLAN & PROFILE

SCALE: H=50 V=5 | SHEET NO. 3 OF 7 SHEETS | STA. 190+00 TO STA. 205+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	29
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, NOTE BOOK, CADD FILE NAME, NO.____, BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, ELM. NOTED, STRUCTURE NOTATNS CKD'D, NOTE BOOK, NO.____, BY, DATE



STA. 205+00.0
PIPE CULVERT, CLASS D, TYPE 1, 30"x86'
W/ END SECTIONS, 2-EACH (STD. 542401)
U.S.F.L. 706.67, STA. 205+00.0, 44.0' LT.
D.S.F.L. 705.75, STA. 205+00.0, 42.0' RT.
STA. 211+38.22
PROPOSED 9'x6'x121' RCBC
U.S.F.L. 693.33, STA. 211+68.73, 53.82' RT.
D.S.F.L. 693.17, STA. 211+08.26, 50.98' LT.
SEC. 10
T. 34 N.
R. 14 E.
3RD PM
SOUTH HOLLAND TRUST AND SAVINGS BANK, TRUST NO. 6556
PROPOSED R.O.W. LINE
PROPOSED DETENTION BERM (SEE SPECIAL DETAIL SHEET)
STA. 207+66.00 105.00' LT.
PROPOSED CONSTRUCTION LIMITS
RICHARD H. ANDRE & KENNETH W. ANDRE, TRUSTEE
STA. 207+69.60 80.00' LT.
℄ CONSTRUCTION
BM #24
BM #23
CULTIVATED FIELD
MATCH LINE
STA. 205+00
210+00
215+00
C.H. 49 (EXCHANGE ST.)
PROPOSED 8' HOT-MIX ASPHALT SHOULDER
STA. 220+00
PROPOSED PIPE UNDERDRAINS 4" (TYP.)
POST
PIPE
8" TILE
STA. 207+92.20 69.06' RT.
STA. 207+97.97 105.00' RT.
STA. 212+00.00 105.00' RT.
PIPELINE SIGN
STA. 219+00.00 60.00' RT.
IPF
STA. 205+88.74 93.96' RT.
BLDG
RICHARD H. ANDRE & KENNETH W. ANDRE, TRUSTEE
STA. 205+31.82 201.98' RT.
TRINITY SERVICES, INC.
PROP. CURVE C2A
PI STA. = 214+58.26
Δ = 41° 58' 13" (RT)
D = 1° 41' 43"
R = 3,380.00'
T = 1,296.45'
L = 2,475.91'
E = 240.11'
e = 4.0%
T.R. = 54.00'
S.E. RUN = 107.00'
P.C. STA. = 201+61.80
P.T. STA. = 226+37.72
TREES TO BE REMOVED SEE "TREE REMOVAL, ACRES" SCHEDULE
BP PIPELINE NORTH AMERICA
WOLVERINE PIPELINE COMPANY
EXISTING PIPELINE EASEMENT
N
BM #23 - RAILROAD SPIKE IN 20" TREE 150'± NORTH-NORTHEAST OF BRICK HOUSE 6.2'± LT. STA. 208+04.9± ELEV. 708.88
BM #24 - RAILROAD SPIKE IN 13" TREE @ NORTHWEST CORNER OF GRASS FIELD 7.5'± RT. STA. 212+24.0± ELEV. 707.38
ex = 0.49'
K = 165
255.00' V.C.
PROPOSED PROFILE GRADE LINE
+72.50 EL. 708.36
VPI STA. 213+00.00 ELEVATION 707.53
+27.50 EL. 708.68
EXISTING GROUND LINE
+00 DT. LT. EL. 708.36
+00 DT. LT. EL. 706.68
DT. LT. +0.56%
DT. RT. -0.30%
+00 DT. RT. EL. 705.75
DT. RT. -1.03%
DT. LT. -4.25%
DT. RT. -4.22%
+00 DT. RT. EL. 704.85
+00 DT. RT. EL. 703.82
+38 DT. LT. EL. 693.99
DT. LT. +3.63%
DT. RT. +3.50%
+38 DT. RT. EL. 693.77
+85.00 EL. 712.18
-0.65%
+0.90%
+00 DT. LT. EL. 703.49
+00 DT. RT. EL. 702.94
+00 DT. RT. EL. 704.50
DT. RT. +1.56%
DT. RT. +0.30%
+00 DT. RT. EL. 705.10
DT. LT. +0.30%
DT. RT. +1.20%
+00 DT. RT. EL. 708.70
EXISTING 18" WOLVERINE PIPELINE CO.
EXISTING 16" BP PIPELINE NORTH AMERICA
720
715
710
705
700
695
690
685

Station	LT. DT.	RT. DT.	EX. PROF.	PR. PROF.
205+00	706.68	705.75	709.91	712.51
	706.96	705.60	709.77	712.37
206+00	707.24	705.45	709.68	712.08
	707.52	705.30	709.68	711.76
207+00	707.80	705.15	709.46	711.43
	708.08	705.00	708.84	711.11
208+00	708.36	704.85	708.31	710.78
	706.24	704.34	708.02	710.46
209+00	704.11	703.82	707.77	710.13
	701.99	701.71	707.38	709.81
210+00	699.86	699.60	705.60	709.48
	697.74	697.49	701.27	709.16
211+00	695.61	695.37	699.11	708.83
	694.42	694.19	701.37	708.51
212+00	696.23	695.94	704.34	708.20
	698.05	697.69	706.21	708.04
213+00	699.86	699.44	706.87	708.03
	701.68	701.19	707.23	708.16
214+00	703.49	702.94	707.37	708.45
	703.64	703.72	707.33	708.88
215+00	703.79	704.50	707.63	709.33
	703.94	704.65	707.71	709.78
216+00	704.09	704.80	707.95	710.23
	704.24	704.95	708.52	710.68
217+00	704.39	705.10	709.14	711.13
	704.54	705.70	709.90	711.58
218+00	704.69	706.30	710.65	712.03
	704.84	706.90	711.32	712.48
219+00	704.99	707.50	711.81	712.93
	705.14	708.10	711.94	713.38
220+00	705.29	708.70	712.17	713.83

PLAN: NOTE BOOK NO. / SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / BY / DATE

PROFILE: NOTE BOOK NO. / SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHECKED / BY / DATE

FILE NAME = v:\2456\2456p003.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 8/27/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

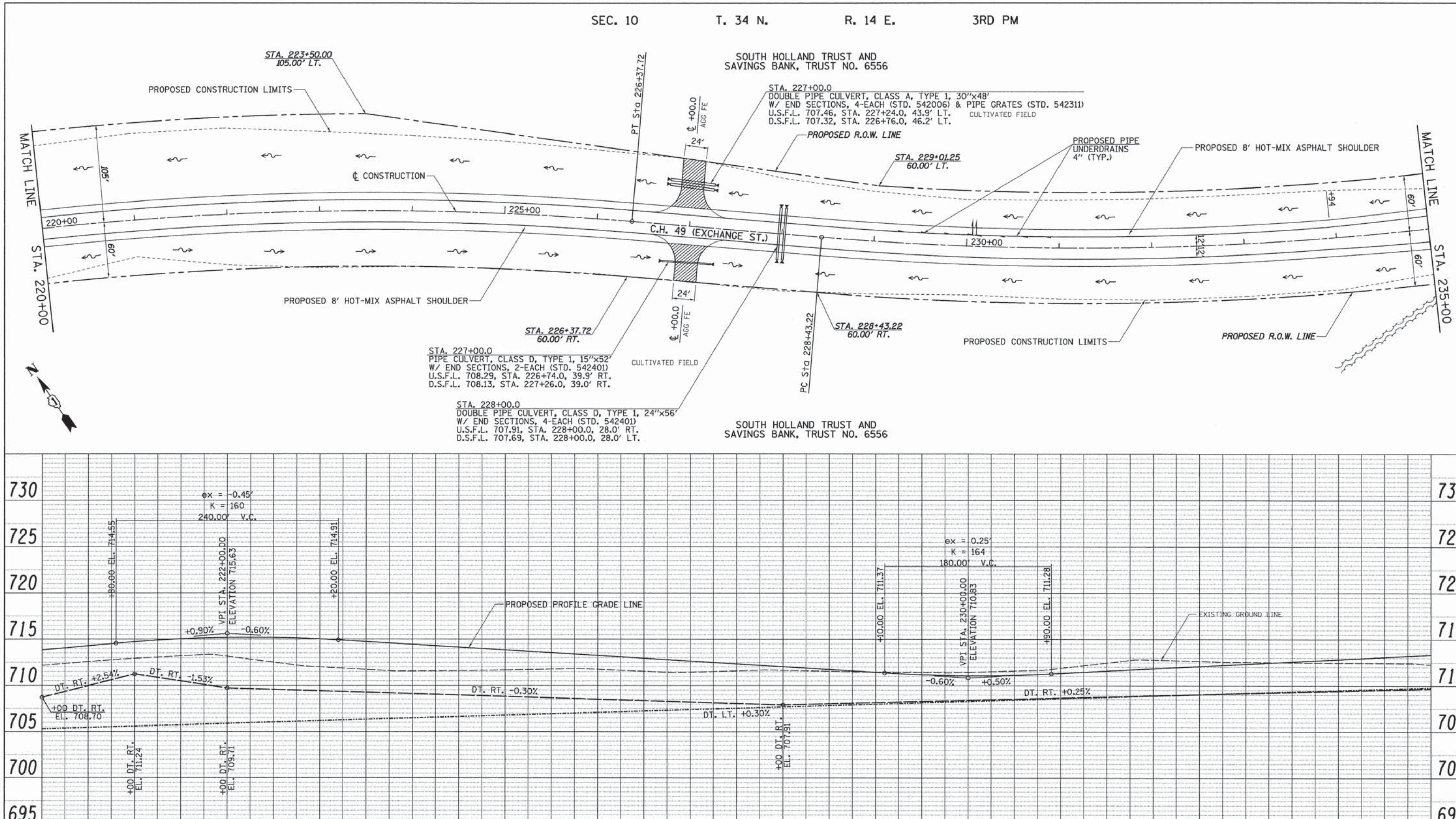
C.H. 49 (EXCHANGE ST.) PLAN & PROFILE

SCALE: H=50 V=5 | SHEET NO. 4 OF 7 SHEETS | STA. 205+00 TO STA. 220+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	30

CONTRACT NO. 63672

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



Station	LT. DT.	RT. DT.	EX. PROF.	PR. PROF.
220+00	705.29	708.70	712.17	713.83
	705.44	709.97	712.57	714.28
221+00	705.59	711.24	712.91	714.72
	705.74	710.47	713.19	715.03
222+00	705.89	709.71	713.14	715.18
	706.04	709.56	712.51	715.18
223+00	706.19	709.41	712.00	715.02
	706.34	709.26	711.72	714.73
224+00	706.49	709.11	711.56	714.43
	706.64	708.96	711.60	714.13
225+00	706.79	708.81	711.66	713.83
	706.94	708.66	711.76	713.53
226+00	707.09	708.51	711.74	713.23
	707.24	708.36	711.53	712.93
227+00	707.39	708.21	711.44	712.63
	707.54	708.06	711.58	712.33
228+00	707.69	707.91	711.65	712.03
	707.84	708.03	711.54	711.73
229+00	707.99	708.16	711.46	711.43
	708.14	708.28	711.42	711.18
230+00	708.29	708.41	711.45	711.08
	708.44	708.53	711.58	711.13
231+00	708.59	708.66	711.88	711.33
	708.74	708.78	712.46	711.58
232+00	708.89	708.91	712.78	711.83
	709.04	709.03	712.64	712.08
233+00	709.19	709.16	712.55	712.33
	709.34	709.28	712.50	712.58
234+00	709.49	709.41	712.46	712.83
	709.64	709.53	712.44	713.08
235+00	709.79	709.66	712.27	713.33

FILE NAME = v:\2456\2456p004.dgn

USER NAME = smountsl
PLOT SCALE = 50.000 ' / in.
PLOT DATE = 8/27/2013

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.) PLAN & PROFILE

SCALE: H=50 V=5 | SHEET NO. 5 OF 7 SHEETS | STA. 220+00 TO STA. 235+00

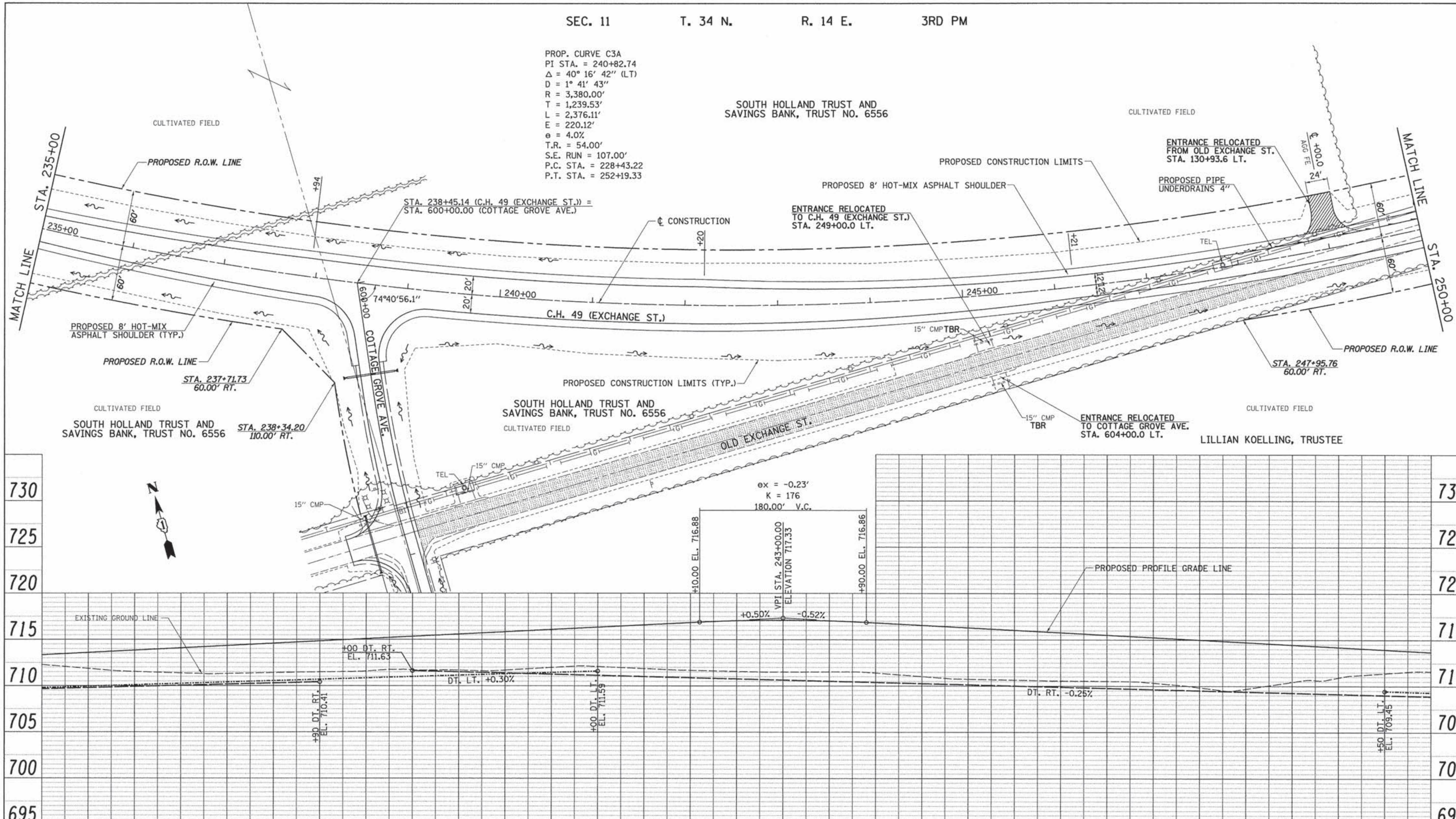
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	31

CONTRACT NO. 63672

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

PLAN: NOTE BOOK NO. — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — BY — DATE

PROFILE: NOTE BOOK NO. — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHECKED — BY — DATE



SEC. 11
T. 34 N.
R. 14 E.
3RD PM
PROP. CURVE C3A
PI STA. = 240+82.74
Δ = 40° 16′ 42″ (LT)
D = 1° 41′ 43″
R = 3,380.00′
T = 1,239.53′
L = 2,376.11′
E = 220.12′
e = 4.0%
T.R. = 54.00′
S.E. RUN = 107.00′
P.C. STA. = 228+43.22
P.T. STA. = 252+19.33
SOUTH HOLLAND TRUST AND SAVINGS BANK, TRUST NO. 6556
CULTIVATED FIELD
MATCH LINE
STA. 235+00
PROPOSED R.O.W. LINE
STA. 238+45.14 (C.H. 49 (EXCHANGE ST.)) = STA. 600+00.00 (COTTAGE GROVE AVE.)
℄ CONSTRUCTION
ENTRANCE RELOCATED TO C.H. 49 (EXCHANGE ST.) STA. 249+00.0 LT.
PROPOSED 8′ HOT-MIX ASPHALT SHOULDER
PROPOSED CONSTRUCTION LIMITS
ENTRANCE RELOCATED FROM OLD EXCHANGE ST. STA. 130+93.6 LT.
PROPOSED PIPE UNDERDRAINS 4″
STA. 250+00
74°40′56.1″
C.H. 49 (EXCHANGE ST.)
COTTAGE GROVE AVE.
PROPOSED 8′ HOT-MIX ASPHALT SHOULDER (TYP.)
PROPOSED R.O.W. LINE
STA. 237+71.73 60.00′ RT.
STA. 238+34.20 110.00′ RT.
PROPOSED CONSTRUCTION LIMITS (TYP.)
OLD EXCHANGE ST.
15″ CMP TBR
ENTRANCE RELOCATED TO COTTAGE GROVE AVE. STA. 604+00.0 LT.
STA. 247+95.76 60.00′ RT.
LILLIAN KOELLING, TRUSTEE
TEL
15″ CMP
ex = -0.23′
K = 176
180.00′ V.C.
+10.00 EL. 716.88
VPI STA. 243+00.00 ELEVATION 717.33
+90.00 EL. 716.86
PROPOSED PROFILE GRADE LINE
EXISTING GROUND LINE
+00 DT. RT. EL. 711.63
+0.50%
-0.52%
DT. LT. +0.30%
DT. RT. -0.25%
+90 DT. RT. EL. 710.41
+00 DT. LT. EL. 711.59
+50 DT. LT. EL. 709.45
730
725
720
715
710
705
700
695

STA.	LT. DT.	RT. DT.	EX. PROF.	PR. PROF.
235+00	709.79	709.66	712.27	713.33
	709.94	709.78	711.86	713.58
236+00	710.09	709.91	711.53	713.83
	710.24	710.03	711.37	714.08
237+00	710.39	710.16	711.31	714.33
	710.54	710.28	711.41	714.58
238+00	710.69	710.41	711.49	714.83
	710.84		711.58	715.08
239+00	710.99	711.63	711.71	715.33
	711.14	711.50	711.69	715.58
240+00	711.29	711.38	711.69	715.83
	711.44	711.25	711.98	716.08
241+00	711.59	711.13	712.08	716.33
		711.00	711.86	716.58
242+00		710.88	711.68	716.83
		710.75	711.57	717.04
243+00		710.63	711.50	717.10
		710.50	711.52	717.02
244+00		710.38	711.40	716.81
		710.25	711.02	716.55
245+00		710.13	710.74	716.29
		710.00	710.65	716.03
246+00		709.88	710.56	715.77
		709.75	710.52	715.51
247+00		709.63	710.34	715.25
		709.50	709.84	714.98
248+00		709.38	709.69	714.72
		709.25	710.44	714.46
249+00		709.13	710.93	714.20
	709.45	709.00	711.39	713.94
250+00	709.30	708.88	711.60	713.68

FILE NAME = v:\2456\2456p005.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ′ / in.	CHECKED -	REVISED -
	PLOT DATE = 8/27/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.) PLAN & PROFILE

SCALE: H=50 V=5 | SHEET NO. 6 OF 7 SHEETS | STA. 235+00 TO STA. 250+00

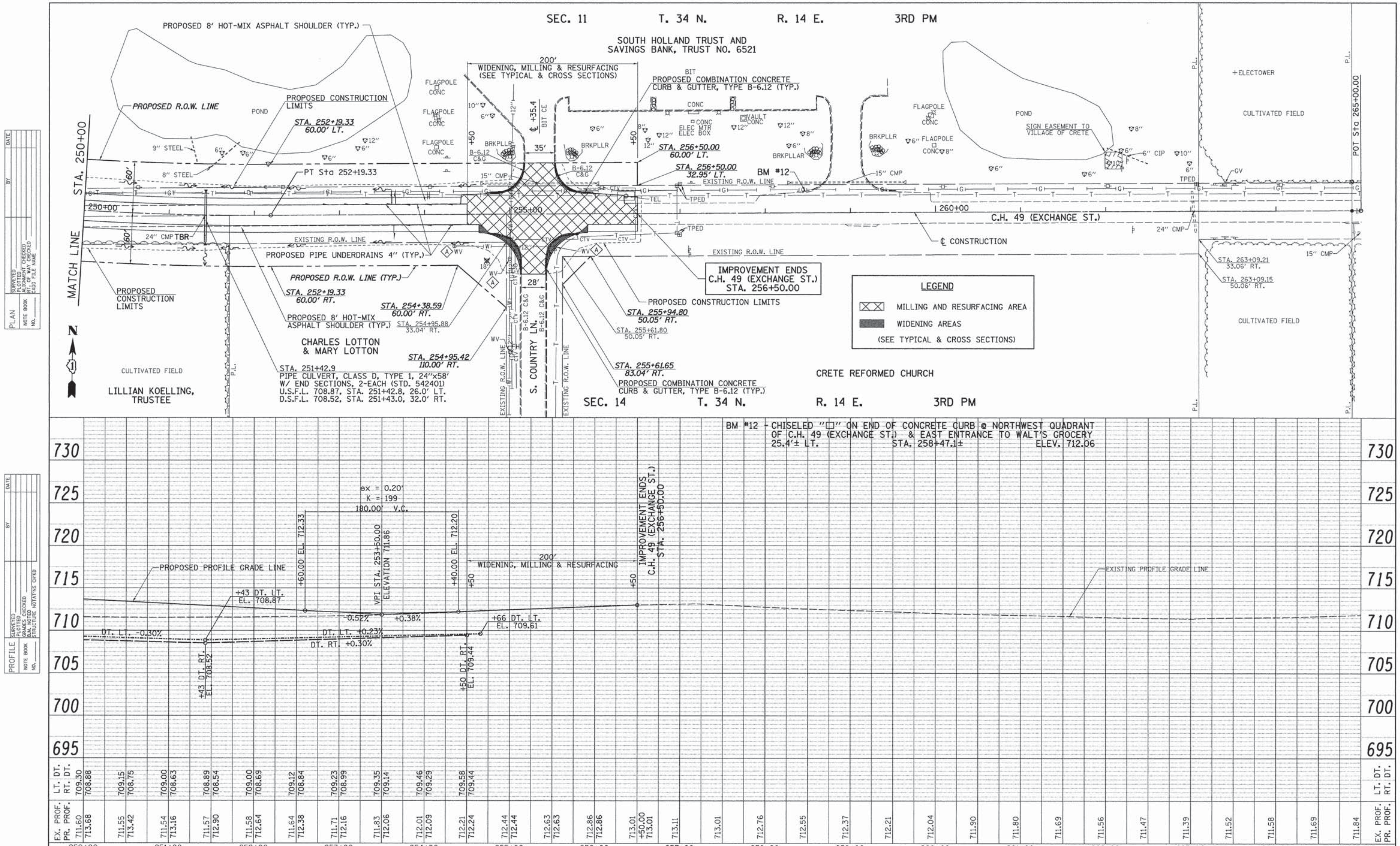
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	32

CONTRACT NO. 63672

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

PLAN | NOTE BOOK NO. | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | BY | DATE

PROFILE | NOTE BOOK NO. | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATIONS CHK'D | BY | DATE



SEC. 11 T. 34 N. R. 14 E. 3RD PM
SOUTH HOLLAND TRUST AND SAVINGS BANK, TRUST NO. 6521
PROPOSED 8' HOT-MIX ASPHALT SHOULDER (TYP.)
PROPOSED R.O.W. LINE
POND
PROPOSED CONSTRUCTION LIMITS
STA. 252+19.33 60.00' LT.
PT Sta 252+19.33
200' WIDENING, MILLING & RESURFACING (SEE TYPICAL & CROSS SECTIONS)
PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (TYP.)
STA. 256+50.00 60.00' LT.
STA. 256+50.00 32.95' LT.
BM #12
EXISTING R.O.W. LINE
C.H. 49 (EXCHANGE ST.)
℄ CONSTRUCTION
IMPROVEMENT ENDS C.H. 49 (EXCHANGE ST.) STA. 256+50.00
SIGN EASEMENT TO VILLAGE OF CRETE
CULTIVATED FIELD
STA. 263+09.21 33.06' RT.
STA. 263+09.15 50.06' RT.
POT Sta 265+00.00
MATCH LINE STA. 250+00
PROPOSED PIPE UNDERDRAINS 4" (TYP.)
PROPOSED R.O.W. LINE (TYP.)
STA. 252+19.33 60.00' RT.
STA. 254+38.59 60.00' RT.
STA. 254+95.88 33.04' RT.
STA. 254+95.42 110.00' RT.
CHARLES LOTTON & MARY LOTTON
STA. 251+42.9 PIPE CULVERT, CLASS D, TYPE 1, 24"x58' W/ END SECTIONS, 2-EACH (STD. 542401) U.S.F.L. 708.87, STA. 251+42.8, 26.0' LT. D.S.F.L. 708.52, STA. 251+43.0, 32.0' RT.
LILLIAN KOELLING, TRUSTEE
S. COUNTRY LN.
PROPOSED CONSTRUCTION LIMITS
STA. 255+94.80 50.05' RT.
STA. 255+61.80 50.05' RT.
STA. 255+61.65 83.04' RT.
PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (TYP.)
LEGEND
MILLING AND RESURFACING AREA
WIDENING AREAS
(SEE TYPICAL & CROSS SECTIONS)
CRETE REFORMED CHURCH
SEC. 14 T. 34 N. R. 14 E. 3RD PM
BM #12 - CHISELED "□" ON END OF CONCRETE CURB @ NORTHWEST QUADRANT OF C.H. 49 (EXCHANGE ST.) & EAST ENTRANCE TO WALT'S GROCERY 25.4'± LT. STA. 258+47.1± ELEV. 712.06
PROPOSED PROFILE GRADE LINE
ex = 0.20' K = 199 180.00' V.C.
VPI STA. 253+50.00 ELEVATION 711.86
-0.52% +0.38%
200' WIDENING, MILLING & RESURFACING
IMPROVEMENT ENDS C.H. 49 (EXCHANGE ST.) STA. 256+50.00
EXISTING PROFILE GRADE LINE
+43 DT. LT. EL. 708.87
+66 DT. LT. EL. 709.61
DT. LT. -0.30%
DT. LT. +0.23%
DT. RT. +0.30%
+43 DT. RT. EL. 708.52
+50 DT. RT. EL. 709.44

FILE NAME = v:\2456\2456p006.dgn	USER NAME = smounts1	DESIGNED -	REVISED -
	PLOT SCALE = 50.000 ' / in.	DRAWN -	REVISED -
	PLOT DATE = 8/15/2013	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

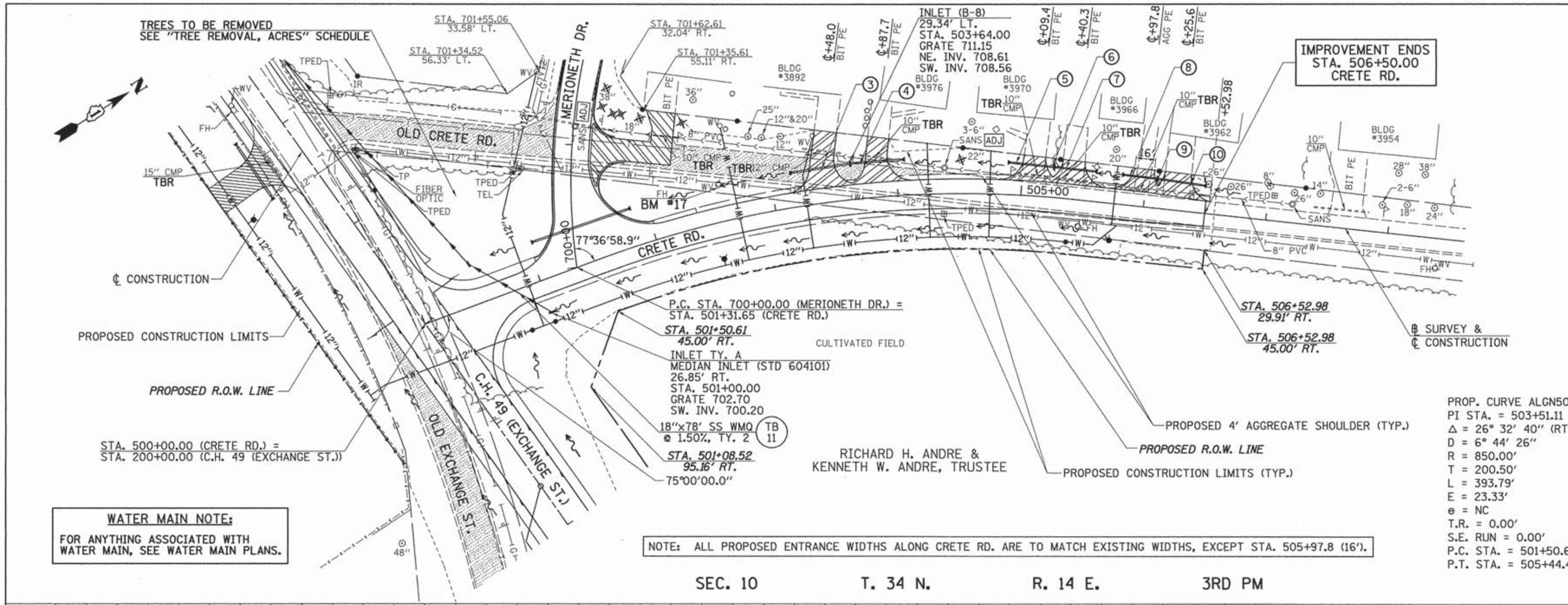
C.H. 49 (EXCHANGE ST.) PLAN & PROFILE

SCALE: H=50 V=5 | SHEET NO. 7 OF 7 SHEETS | STA. 250+00 TO STA. 265+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	33

CONTRACT NO. 63672

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



WATER MAIN NOTE:
FOR ANYTHING ASSOCIATED WITH WATER MAIN, SEE WATER MAIN PLANS.

NOTE: ALL PROPOSED ENTRANCE WIDTHS ALONG CRETE RD. ARE TO MATCH EXISTING WIDTHS, EXCEPT STA. 505+97.8 (16').

PROP. CURVE ALGN500
PI STA. = 503+51.11
Δ = 26° 32' 40" (RT)
D = 6° 44' 26"
R = 850.00'
T = 200.50'
L = 393.79'
E = 23.33'
e = NC
T.R. = 0.00'
S.E. RUN = 0.00'
P.C. STA. = 501+50.61
P.T. STA. = 505+44.40

③ STA. 503+32.9
PIPE CULVERT, CLASS A, TYPE 2, 15"x44' W/ END SECTION (STD. 542301)
D.S.F.L. 707.82, STA. 503+19.3, 28.2' LT.

④ STA. 503+78.8
PIPE CULVERT, CLASS A, TYPE 1, 15"x40' W/ END SECTION (STD. 542301)
U.S.F.L. 709.26, STA. 504+03.6, 29.1' LT.

⑤ STA. 505+09.4
PIPE CULVERT, CLASS A, TYPE 1, 12"x34' W/ END SECTION (STD. 542301)
D.S.F.L. 710.48, STA. 504+91.9, 25.9' LT.

⑥ INLET (A-8)
24.65' LT.
STA. 505+25.00
GRATE 712.28
NE. INV. 710.85
SW. INV. 710.82

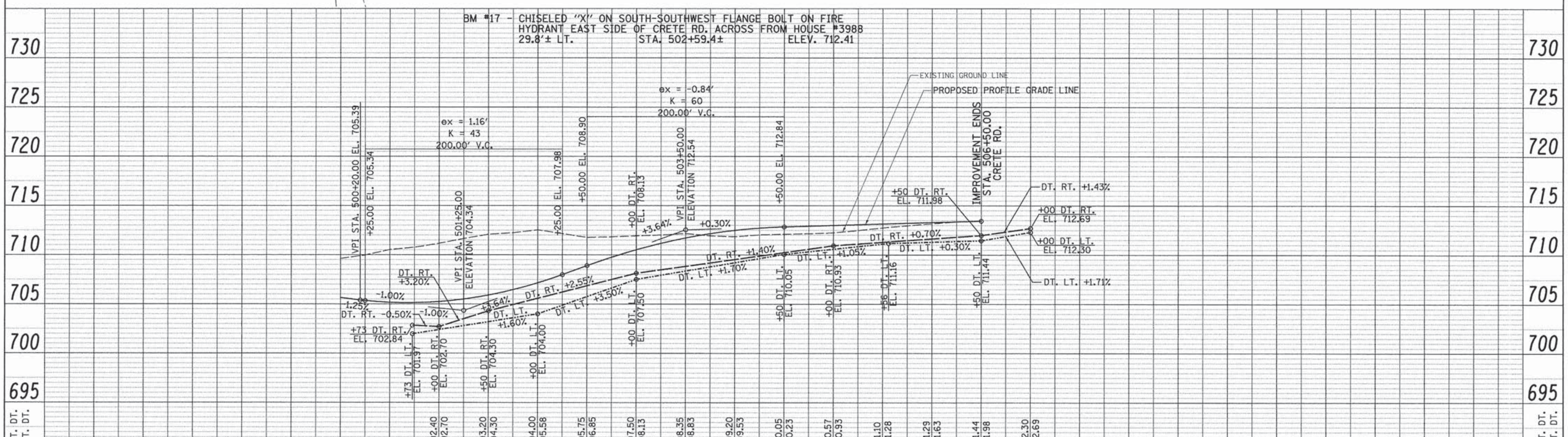
⑦ STA. 505+40.3
PIPE CULVERT, CLASS A, TYPE 1, 12"x30' W/ END SECTION (STD. 542301)
U.S.F.L. 711.16, STA. 505+56.2, 24.4' LT.

⑧ STA. 505+97.8
PIPE CULVERT, CLASS A, TYPE 1, 12"x24' W/ END SECTION (STD. 542301)
D.S.F.L. 711.24, STA. 505+83.8, 24.1' LT.

⑨ INLET (A-8)
23.91' LT.
STA. 506+09.00
GRATE 712.78
NE. INV. 711.33
SW. INV. 711.32

⑩ STA. 506+25.5
PIPE CULVERT, CLASS A, TYPE 1, 12"x36' W/ END SECTION (STD. 542301)
U.S.F.L. 711.43, STA. 506+45.5, 22.6' LT.

SEC. 10   T. 34 N.   R. 14 E.   3RD PM



	500+00	500+50	501+00	501+50	502+00	502+50	503+00	503+50	504+00	504+50	505+00	505+50	506+00	506+50	507+00
LT. DT.			702.40	703.20	704.00	705.75	707.50	708.35	709.20	710.05	710.57	711.10	711.29	711.44	712.30
RT. DT.			702.70	704.30	705.58	706.85	708.13	708.83	709.53	710.23	710.93	711.28	711.63	711.98	712.69
EX. PROF.	709.62	710.52	711.16	712.08	712.53	711.76	711.92	712.16	711.84	712.10	712.24	712.74	713.17	713.44	
PR. PROF.	705.64	705.16	705.24	705.90	707.15	708.90	710.51	711.70	712.48	712.84	712.99	713.14	713.29	713.44	

FILE NAME = vr\2456\2456p007.dgn	USER NAME = smounts1	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CRETE RD. PLAN & PROFILE

SCALE: H=50 V=5 | SHEET NO. 1 OF 1 SHEETS | STA. 500+00 TO STA. 508+62

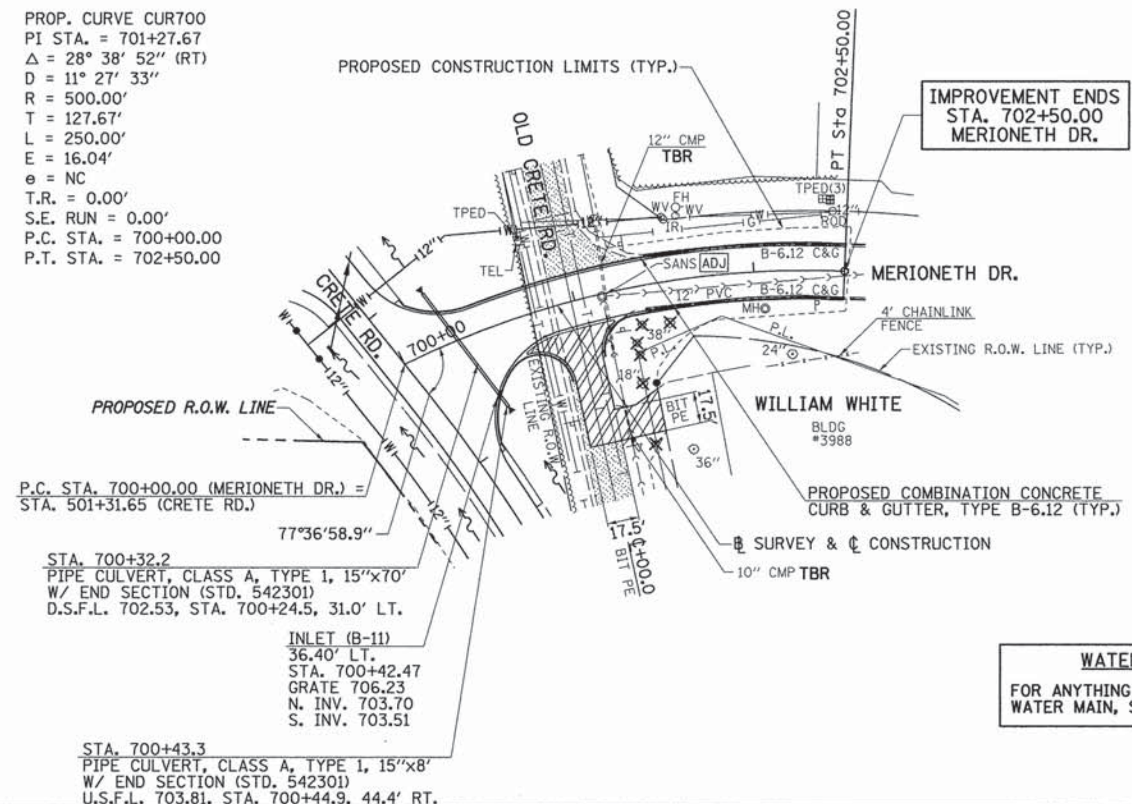
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	34
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN: NOTE BOOK NO. ___ | SURVEYED | PLOTTED | ALIGNMENT CHECKED | R.T. OF WAY CHECKED | CADD FILE NAME | BY | DATE

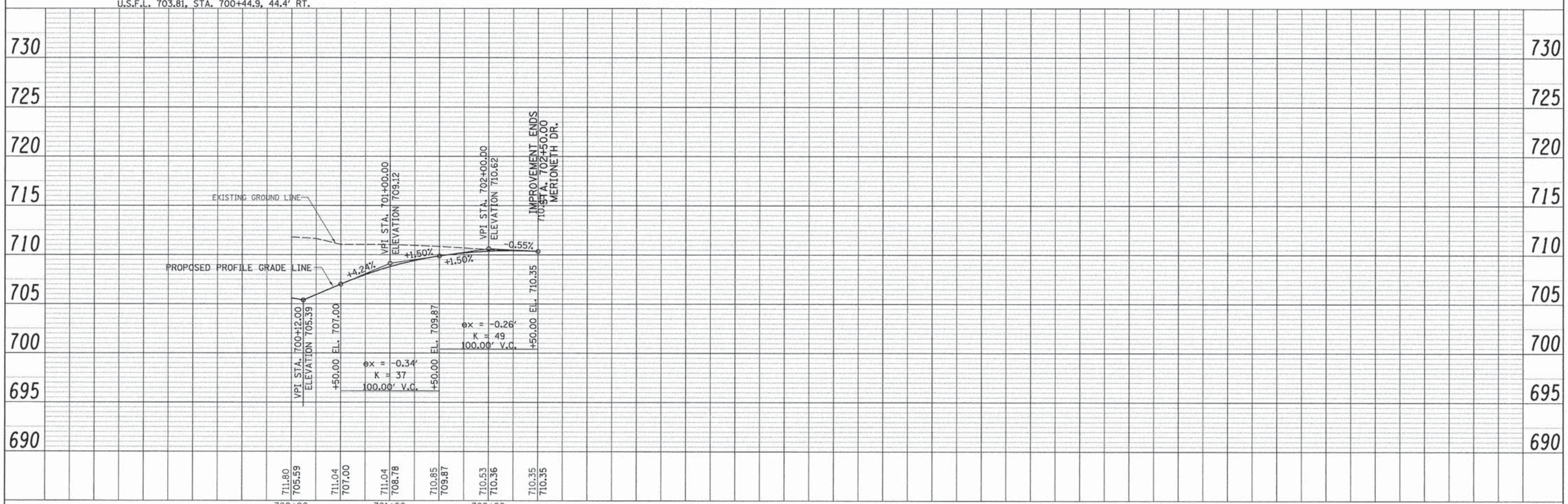
PROFILE: NOTE BOOK NO. ___ | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATIONS CHK'D | BY | DATE

SEC. 10 T. 34 N. R. 14 E. 3RD PM

PROP. CURVE CUR700
PI STA. = 701+27.67
Δ = 28° 38′ 52″ (RT)
D = 11° 27′ 33″
R = 500.00′
T = 127.67′
L = 250.00′
E = 16.04′
e = NC
T.R. = 0.00′
S.E. RUN = 0.00′
P.C. STA. = 700+00.00
P.T. STA. = 702+50.00



WATER MAIN NOTE:
FOR ANYTHING ASSOCIATED WITH WATER MAIN, SEE WATER MAIN PLANS.



FILE NAME = v:\2456\2456p008.dgn	USER NAME = smounts1	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN -	REVISED -	
	PLOT SCALE = 50.000 ′ / in.	CHECKED -	REVISED -	
	PLOT DATE = 8/15/2013	DATE -	REVISED -	

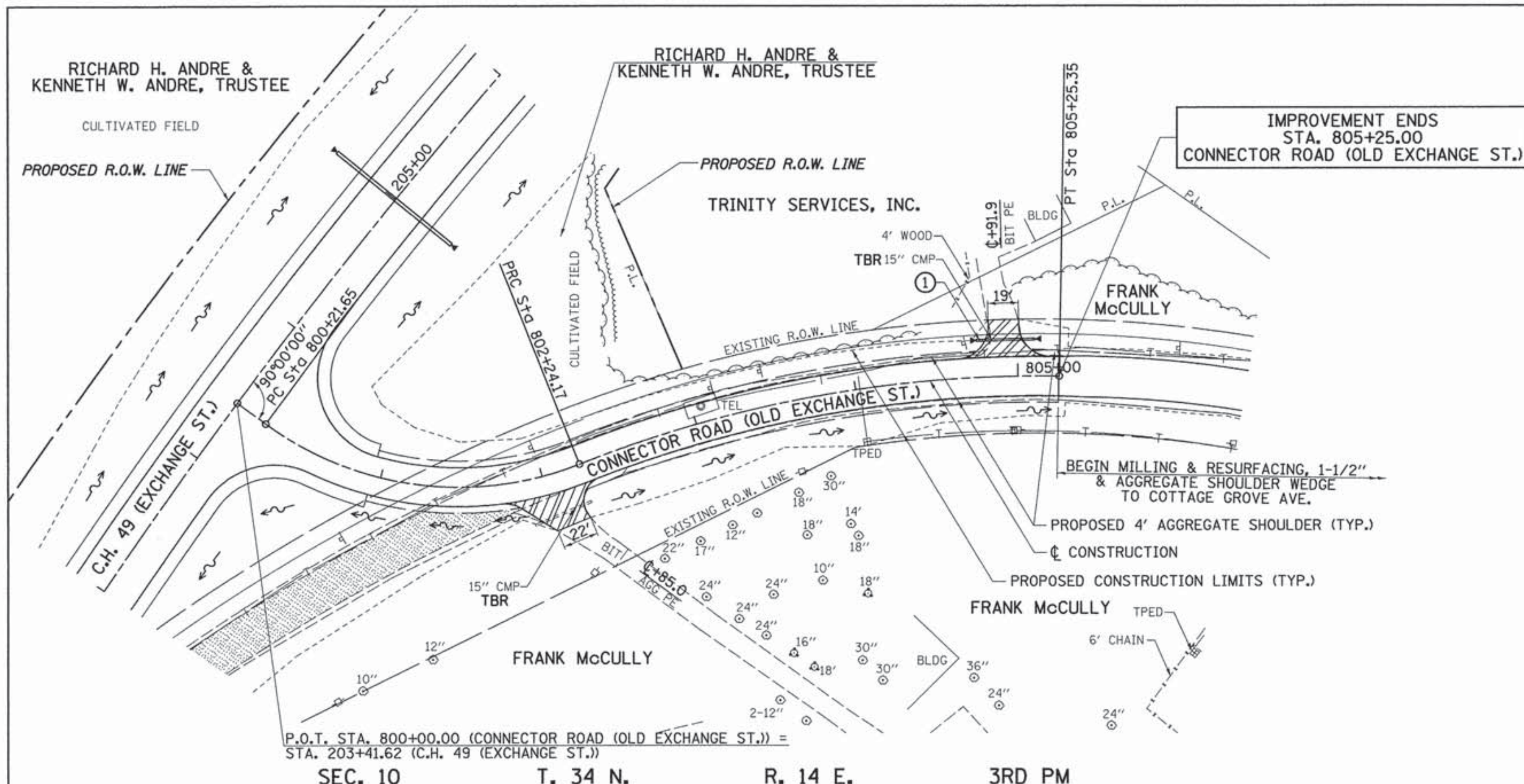
MERIONETH DR. PLAN & PROFILE

SCALE: H=50 V=5 | SHEET NO. 1 OF 1 SHEETS | STA. 700+00 TO STA. 802+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	35

CONTRACT NO. 63672

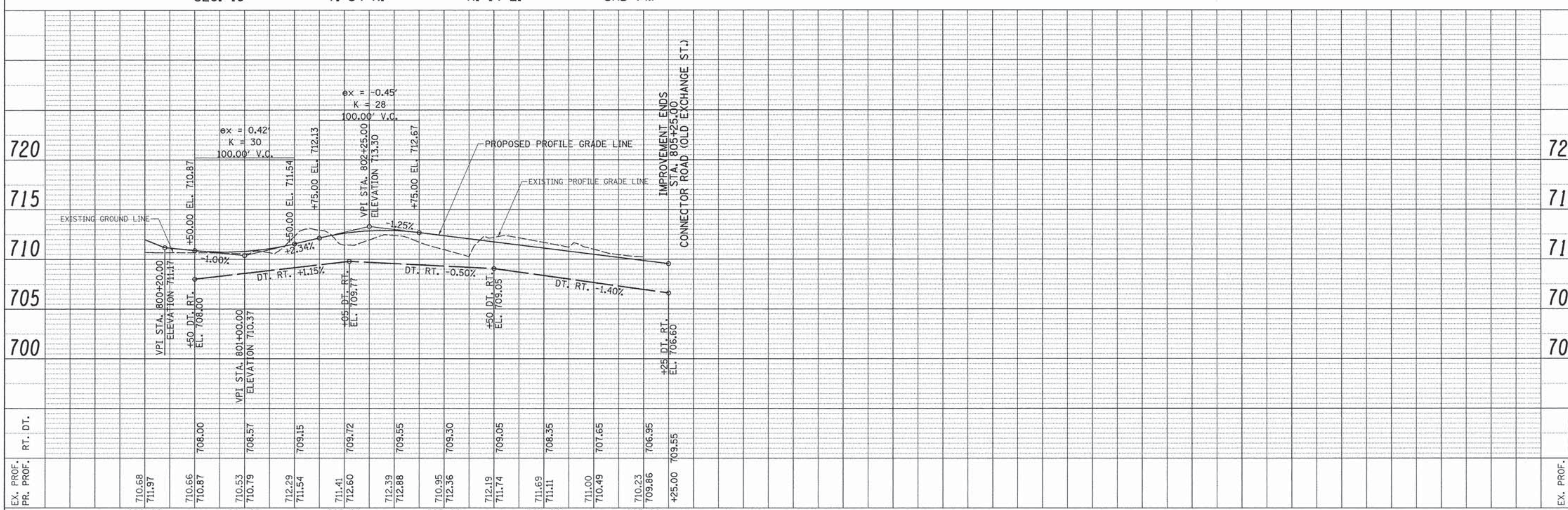
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



① STA. 804+93.1
PIPE CULVERT, CLASS D, TYPE 1, 15"x36'
W/ END SECTIONS, 2-EACH (STD. 542401)
U.S.F.L. 708.51, STA. 804+75.6, 22.8' LT.
D.S.F.L. 708.39, STA. 805+10.6, 22.7' LT.

PROP. CURVE CUR800
PI STA. = 801+32.55
Δ = 58° 00' 59" (LT)
D = 28° 38' 52"
R = 200.00'
T = 110.90'
L = 202.52'
E = 28.69'
e = SEE DETAIL
T.R. = SEE DETAIL
S.E. RUN = SEE DETAIL
P.C. STA. = 800+21.65
P.T. STA. = 802+24.17

PROP. CURVE CUR801
PI STA. = 803+76.74
Δ = 22° 34' 22" (RT)
D = 7° 29' 41"
R = 764.48'
T = 152.57'
L = 301.18'
E = 15.08'
e = SEE DETAIL
T.R. = SEE DETAIL
S.E. RUN = SEE DETAIL
P.C. STA. = 802+24.17
P.T. STA. = 805+25.35

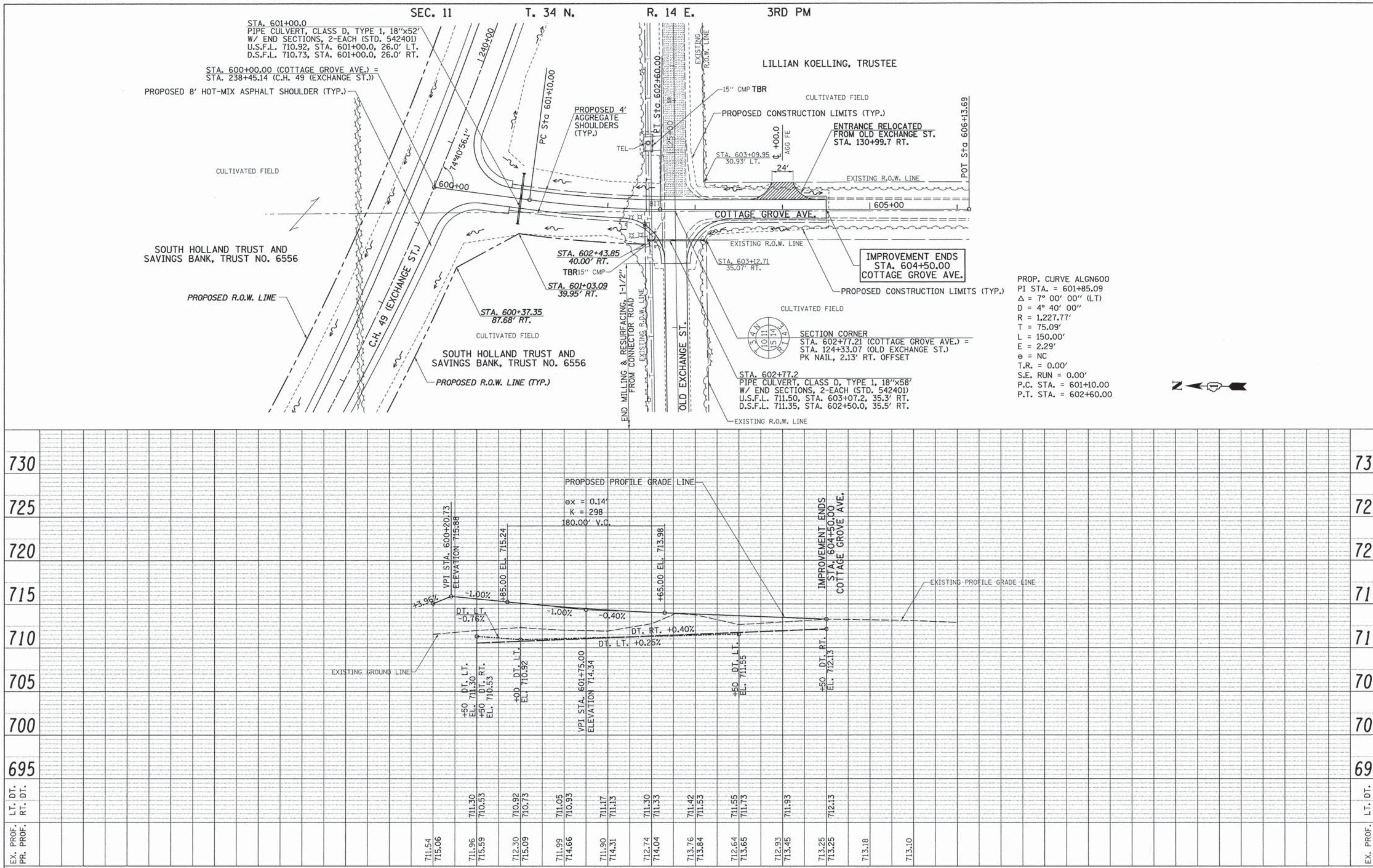


FILE NAME = V:\2456\2456p009.dgn	USER NAME = smountal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONNECTOR ROAD (OLD EXCHANGE ST.) PLAN & PROFILE
		DRAWN -	REVISED -		
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 8/15/2013	DATE -	REVISED -		SCALE: H=50 V=5 | SHEET NO. 1 OF 1 SHEETS | STA. 800+00 TO STA. 805+25.35

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	36
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

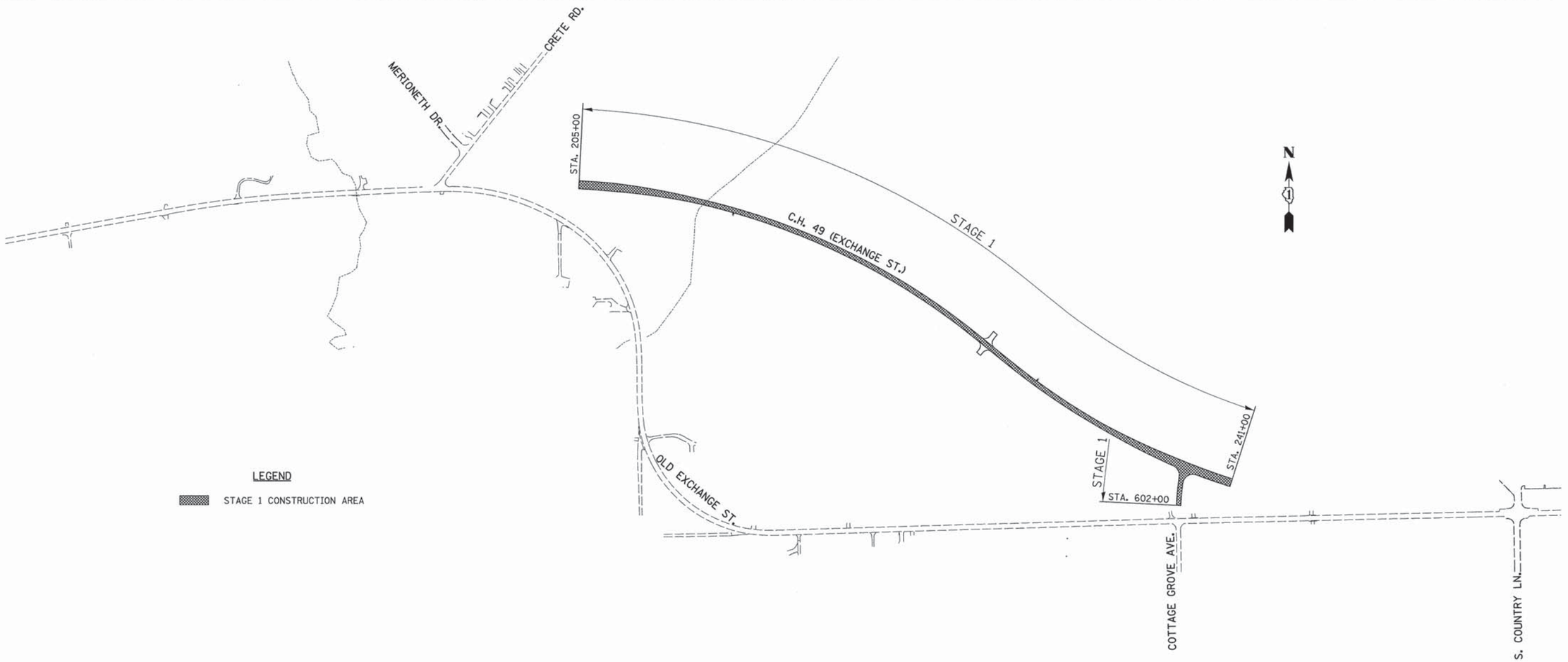
PLAN — NOTE BOOK NO. — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHK'D — BY — DATE


SEC. 11
T. 34 N.
R. 14 E.
3RD PM
STA. 601+00.0
PIPE CULVERT, CLASS D, TYPE 1, 18"x52'
W/ END SECTIONS, 2-EACH (STD. 542401)
U.S.F.L. 710.92, STA. 601+00.0, 26.0' LT.
D.S.F.L. 710.73, STA. 601+00.0, 26.0' RT.
STA. 600+00.00 (COTTAGE GROVE AVE.) =
STA. 238+45.14 (C.H. 49 (EXCHANGE ST.))
PROPOSED 8' HOT-MIX ASPHALT SHOULDER (TYP.)
PC Sta 601+10.00
PROPOSED 4' AGGREGATE SHOULDERS (TYP.)
PT Sta 602+60.00
EXISTING R.O.W. LINE
LILLIAN KOELLING, TRUSTEE
15" CMP TBR
CULTIVATED FIELD
PROPOSED CONSTRUCTION LIMITS (TYP.)
ENTRANCE RELOCATED FROM OLD EXCHANGE ST. STA. 130+99.7 RT.
POT Sta 606+13.69
STA. 603+09.95 30.93' LT.
24'
AGG FE
TEL
CULTIVATED FIELD
74°40'56.1"
600+00
605+00
COTTAGE GROVE AVE.
SOUTH HOLLAND TRUST AND SAVINGS BANK, TRUST NO. 6556
STA. 602+43.85 40.00' RT.
TBR 15" CMP
STA. 601+03.09 39.95' RT.
EXISTING R.O.W. LINE
STA. 603+12.71 35.07' RT.
IMPROVEMENT ENDS STA. 604+50.00 COTTAGE GROVE AVE.
PROPOSED CONSTRUCTION LIMITS (TYP.)
PROP. CURVE ALGN600
PI STA. = 601+85.09
Δ = 7° 00' 00" (LT)
D = 4° 40' 00"
R = 1,227.77'
T = 75.09'
L = 150.00'
E = 2.29'
e = NC
T.R. = 0.00'
S.E. RUN = 0.00'
P.C. STA. = 601+10.00
P.T. STA. = 602+60.00
PROPOSED R.O.W. LINE
C.H. 49 (EXCHANGE ST.)
STA. 600+37.35 87.68' RT.
CULTIVATED FIELD
SOUTH HOLLAND TRUST AND SAVINGS BANK, TRUST NO. 6556
PROPOSED R.O.W. LINE (TYP.)
END MILLING & RESURFACING, 1-1/2" FROM CONNECTOR ROAD
EXISTING R.O.W. LINE
OLD EXCHANGE ST.
SECTION CORNER
STA. 602+77.21 (COTTAGE GROVE AVE.) =
STA. 124+33.07 (OLD EXCHANGE ST.)
PK NAIL, 2.13' RT. OFFSET
STA. 602+77.2
PIPE CULVERT, CLASS D, TYPE 1, 18"x58'
W/ END SECTIONS, 2-EACH (STD. 542401)
U.S.F.L. 711.50, STA. 603+07.2, 35.3' RT.
D.S.F.L. 711.35, STA. 602+50.0, 35.5' RT.
EXISTING R.O.W. LINE
730
725
720
715
710
705
700
695
PROPOSED PROFILE GRADE LINE
ex = 0.14'
K = 298
180.00' V.C.
VPI STA. 600+20.73 ELEVATION 715.88
+85.00 EL. 715.24
+65.00 EL. 713.98
IMPROVEMENT ENDS STA. 604+50.00 COTTAGE GROVE AVE.
EXISTING PROFILE GRADE LINE
+3.96%
-1.00%
DT. LT. -0.76%
-1.00%
-0.40%
DT. RT. +0.40%
DT. LT. +0.25%
EXISTING GROUND LINE
+50 DT. LT. EL. 711.30
+50 DT. RT. EL. 710.53
+00 DT. LT. EL. 710.92
VPI STA. 601+75.00 ELEVATION 714.34
+50 DT. LT. EL. 711.55
+50 DT. RT. EL. 712.13
LT. DT.
RT. DT.
711.30 710.53
710.92 710.73
711.05 710.93
711.17 711.13
711.30 711.33
711.42 711.53
711.55 711.73
711.93
712.13
EX. PROF.
PR. PROF.
711.54 715.06
711.96 715.59
712.30 715.09
711.99 714.66
711.90 714.31
712.74 714.04
713.76 713.84
712.64 713.65
712.93 713.45
713.25 713.25
713.18
713.10
600+00
601+00
602+00
603+00
604+00
605+00

FILE NAME = V:\2456\2456p010.dgn	USER NAME = smountal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COTTAGE GROVE AVE. PLAN & PROFILE
	PLOT SCALE = 50.000 ' / in.	DRAWN -	REVISED -		
	PLOT DATE = 8/15/2013	CHECKED -	REVISED -		
		DATE -	REVISED -		SCALE: H=50 V=5 | SHEET NO. 1 OF 1 SHEETS | STA. 600+00 TO STA. 606+13.69

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	37
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STAGE 1 CONSTRUCTION

CONSTRUCT C.H. 49 (EXCHANGE ST.) FROM STA. 205+00 TO STA. 241+00. THE HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS WILL BE PLACED IN STAGE 3.

STAGE 1 MAINTENANCE OF TRAFFIC

MAINTAIN ALL THROUGH AND LOCAL TRAFFIC ON OLD EXCHANGE ST., CRETE RD., MERIONETH DR., COTTAGE GROVE AVE. AND S. COUNTRY LN.

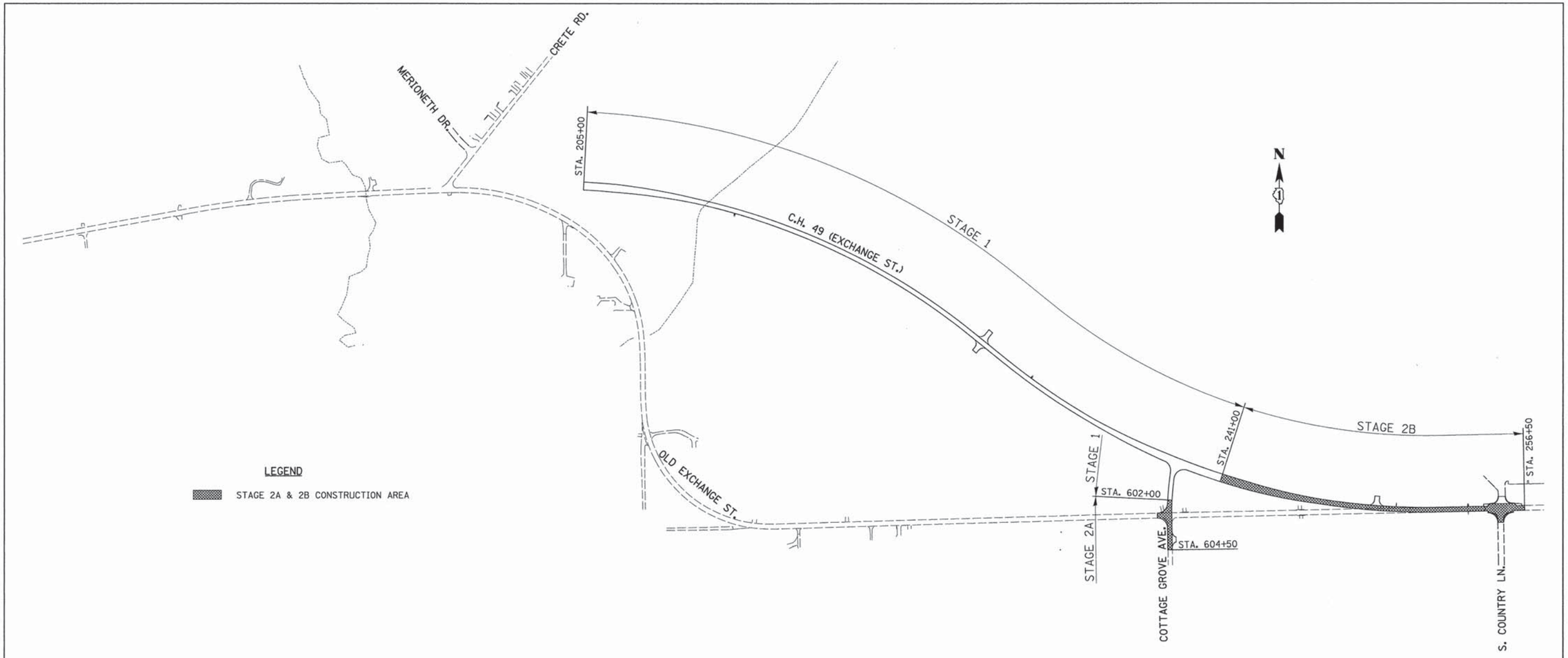
FILE NAME = v:\2456\2456f001.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 250.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.), STAGE 1 CONSTRUCTION PLAN

SCALE: 1"=250' | SHEET NO. 1 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	38
		CONTRACT NO. 63672		
	ILLINOIS FED. AID PROJECT			



STAGE 2A CONSTRUCTION

CONSTRUCT THE COTTAGE GROVE AVE. INTERSECTION AT OLD EXCHANGE ST. FROM STA. 602+00 TO STA. 604+50.

RECONSTRUCTION OF THE COTTAGE GROVE AVE. INTERSECTION AT OLD EXCHANGE ST. MUST BE COMPLETED IN 14 CALENDAR DAYS.
NOTE: SHOULD THE CONTRACTOR FAIL TO COMPLETE THIS WORK WITHIN 14 CALENDAR DAYS AFTER BEGINNING THIS SEGMENT THAT WOULD ALLOW THE ROADWAY TO BE OPEN TO THE TRAVELING PUBLIC, THE CONTRACTOR SHALL BE LIABLE TO THE COUNTY IN THE AMOUNT OF $500.00, NOT AS A PENALTY BUT AS LIQUIDATED DAMAGES, FOR EACH CALENDAR DAY BEYOND THE 14 CALENDAR DAY LIMIT. FAILURE TO COMPLETE THE REMAINDER OF THE CONTRACT WORK BY THE COMPLETION DATE SHALL BE GOVERNED BY THE PROVISION OF ARTICLE 108.09 OF THE STANDARD SPECIFICATIONS. SUCH DAMAGES MAY BE DEDUCTED BY THE ENGINEER FROM ANY MONIES DUE THE CONTRACTOR.

STAGES 2A AND 2B CAN BE WORKED SIMULTANEOUSLY.

STAGE 2C MAY NOT BE STARTED UNTIL STAGE 2A IS COMPLETED.

STAGE 2B CONSTRUCTION

CONSTRUCT C.H. 49 (EXCHANGE ST.) FROM STA. 241+00 TO STA. 256+50 EXCEPT HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS WHICH WILL BE DONE IN STAGE 3.

C.H. 49 (EXCHANGE ST.) WILL BE RECONSTRUCTED FROM STA. 241+00 TO STA. 254+50 EXCEPT THE HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS WHICH WILL BE DONE IN STAGE 3.

C.H. 49 (EXCHANGE ST.) WILL BE WIDENED AND PARTIALLY RESURFACED FROM STA. 254+50 TO STA. 256+50. THE HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS WILL BE PLACED IN STAGE 3.

STAGES 2A AND 2B CAN BE WORKED SIMULTANEOUSLY.

STAGE 2A & 2B MAINTENANCE OF TRAFFIC

OLD EXCHANGE ST. WILL BE CLOSED TO ALL TRAFFIC JUST WEST OF COTTAGE GROVE AVE. NO THROUGH TRAFFIC WILL BE ALLOWED ON OLD EXCHANGE ST. THROUGH TRAFFIC WILL BE DETOURED UTILIZING THE "EXCHANGE ST. MARKED DETOUR". LOCAL TRAFFIC WILL UTILIZE OLD EXCHANGE ST. TO GO WEST FROM COTTAGE GROVE AVE.

UPON COMPLETION OF THE OLD EXCHANGE ST. AND COTTAGE GROVE AVE. INTERSECTION IMPROVEMENT, COTTAGE GROVE AVE. WILL BE MADE AVAILABLE FOR LOCAL TRAFFIC SEEKING TO GO SOUTH.

S. COUNTRY LN. WILL BE KEPT OPEN TO TRAFFIC AT ALL TIMES DURING THE WIDENING AND RESURFACING OF THE INTERSECTION.

OLD EXCHANGE ST. WILL BE CLOSED TO ALL TRAFFIC JUST WEST OF COTTAGE GROVE AVE. NO THROUGH TRAFFIC WILL BE ALLOWED ON OLD EXCHANGE ST. THROUGH TRAFFIC WILL BE DETOURED UTILIZING THE "EXCHANGE ST. MARKED DETOUR".

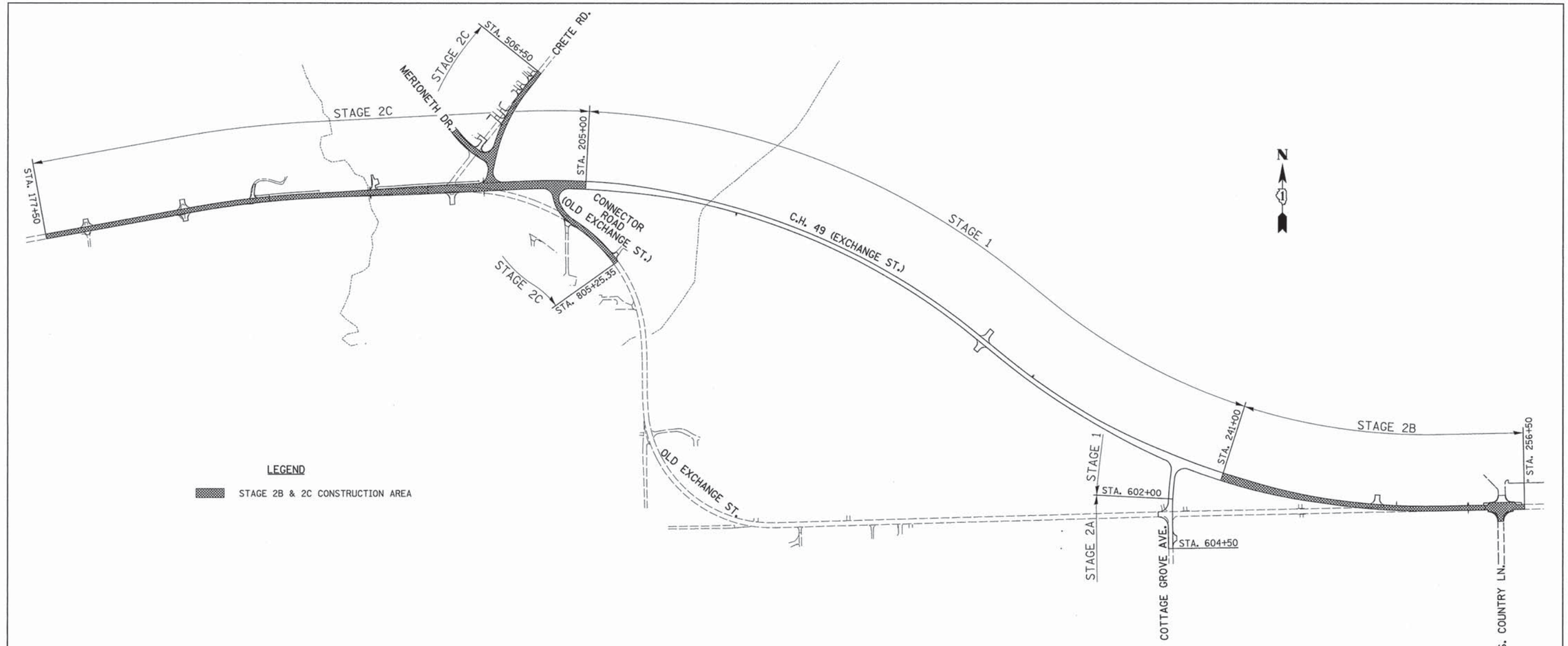
FILE NAME = v:\2456\2456f002.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 250.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.), STAGE 2A & 2B CONSTRUCTION PLAN

SCALE: 1"=250' | SHEET NO. 2 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	39
		CONTRACT NO. 63672		
	ILLINOIS FED. AID PROJECT			



STAGE 2B CONSTRUCTION

CONSTRUCT C.H. 49 (EXCHANGE ST.) FROM STA. 241+00 TO STA. 256+50 EXCEPT HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS WHICH WILL BE DONE IN STAGE 3.

C.H. 49 (EXCHANGE ST.) WILL BE RECONSTRUCTED FROM STA. 241+00 TO STA. 254+50 EXCEPT THE HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS WHICH WILL BE DONE IN STAGE 3.

C.H. 49 (EXCHANGE ST.) WILL BE WIDENED AND PARTIALLY RESURFACED FROM STA. 254+50 TO STA. 256+50. THE HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS WILL BE PLACED IN STAGE 3.

STAGE 2C CONSTRUCTION

CONSTRUCT C.H. 49 (EXCHANGE ST.) FROM STA. 177+50 TO STA. 205+00 EXCEPT HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS WHICH WILL BE DONE IN STAGE 3.

CONSTRUCT CRETE RD. AND MERIONETH DR. AND CONNECTOR ROAD (OLD EXCHANGE ST.) EXCEPT HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS WHICH WILL BE DONE IN STAGE 3.

STAGE 2B & 2C MAINTENANCE OF TRAFFIC

C.H. 49 (EXCHANGE ST.) THROUGH TRAFFIC WILL BE DETOURED USING THE "EXCHANGE ST. MARKED DETOUR".

LOCAL TRAFFIC ON OLD EXCHANGE ST. BETWEEN CRETE RD. AND COTTAGE GROVE AVE. WILL UTILIZE COTTAGE GROVE AVE. FOR INGRESS AND EGRESS.

S. COUNTRY LN. WILL BE KEPT OPEN TO TRAFFIC AT ALL TIMES DURING THE WIDENING AND RESURFACING OF THE INTERSECTION.

THE CONTRACTOR MUST MAINTAIN ACCESS TO PROPERTIES WITHIN THE LIMITS OF STAGE 2C CONSTRUCTION. THE PAY ITEM AGGREGATE FOR TEMPORARY ACCESS HAS BEEN PROVIDED TO AID THE CONTRACTOR IN MAINTAINING THIS ACCESS.

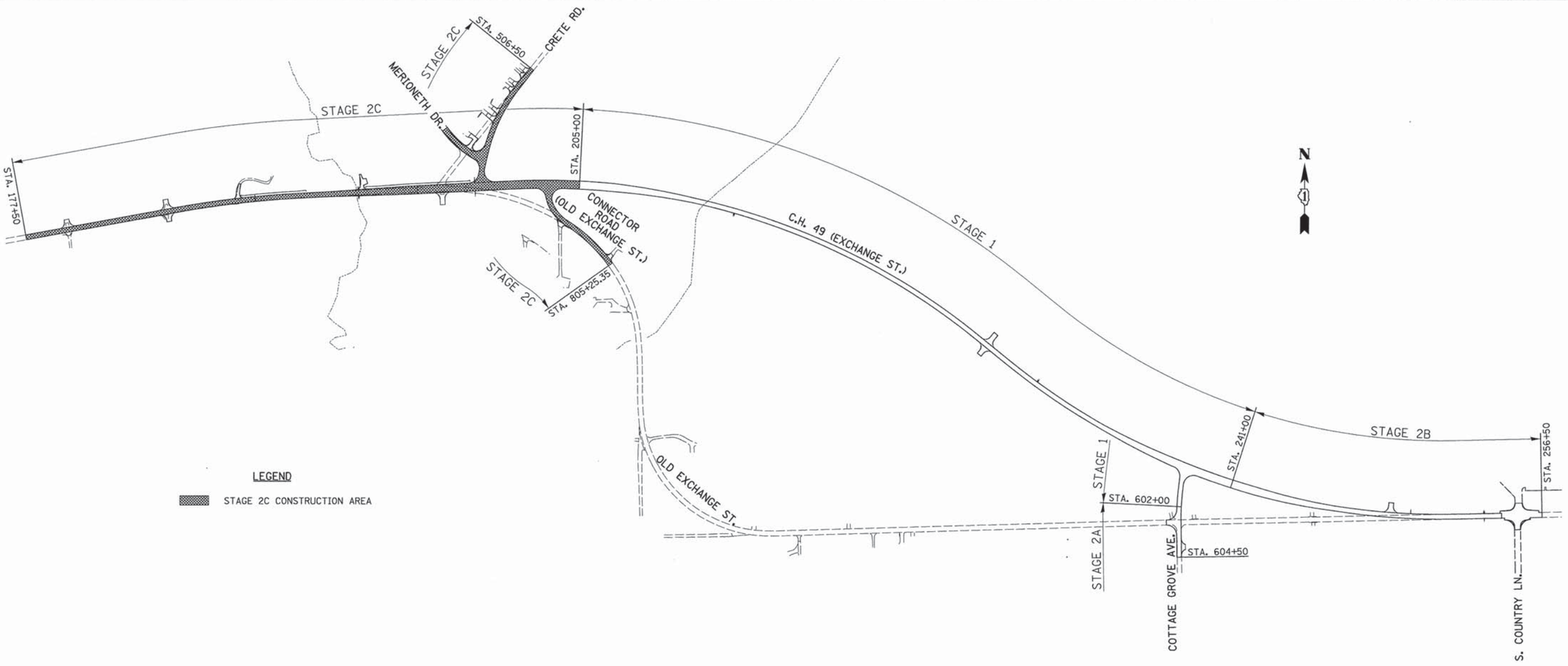
FILE NAME = v:\2456\2456f003.dgn	USER NAME = smountel	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 250.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.), STAGE 2B & 2C CONSTRUCTION PLAN

SCALE: 1"=250' | SHEET NO. 3 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	40
		CONTRACT NO. 63672		
	ILLINOIS FED. AID PROJECT			



STAGE 2C CONSTRUCTION

CONSTRUCT C.H. 49 (EXCHANGE ST.) FROM STA. 177+50 TO STA. 205+00 EXCEPT HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS WHICH WILL BE DONE IN STAGE 3.

CONSTRUCT CRETE RD. AND MERIONETH DR. AND CONNECTOR ROAD (OLD EXCHANGE ST.) EXCEPT HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS WHICH WILL BE DONE IN STAGE 3.

STAGE 2C MAINTENANCE OF TRAFFIC

C.H. 49 (EXCHANGE ST.) THROUGH TRAFFIC WILL BE DETOURED USING THE "EXCHANGE ST. MARKED DETOUR".

LOCAL TRAFFIC ON OLD EXCHANGE ST. WILL UTILIZE COTTAGE GROVE AVE. AND THE RECONSTRUCTED C.H. 49 (EXCHANGE ST.) (STAGE 2B) FOR INGRESS AND EGRESS.

THE CONTRACTOR MUST MAINTAIN ACCESS TO PROPERTIES WITHIN THE LIMITS OF STAGE 2C CONSTRUCTION. THE PAY ITEM AGGREGATE FOR TEMPORARY ACCESS HAS BEEN PROVIDED TO AID THE CONTRACTOR IN MAINTAINING THIS ACCESS.

STAGE 3 CONSTRUCTION

PLACE THE HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS ON C.H. 49 (EXCHANGE ST.), MERIONETH DR., CRETE RD. AND CONNECTOR ROAD (OLD EXCHANGE ST.).

STAGE 3 MAINTENANCE OF TRAFFIC

THE HOT-MIX ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS SHALL BE CONSTRUCTED UNDER TRAFFIC.

FILE NAME = vt\2456\2456f004.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 250.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

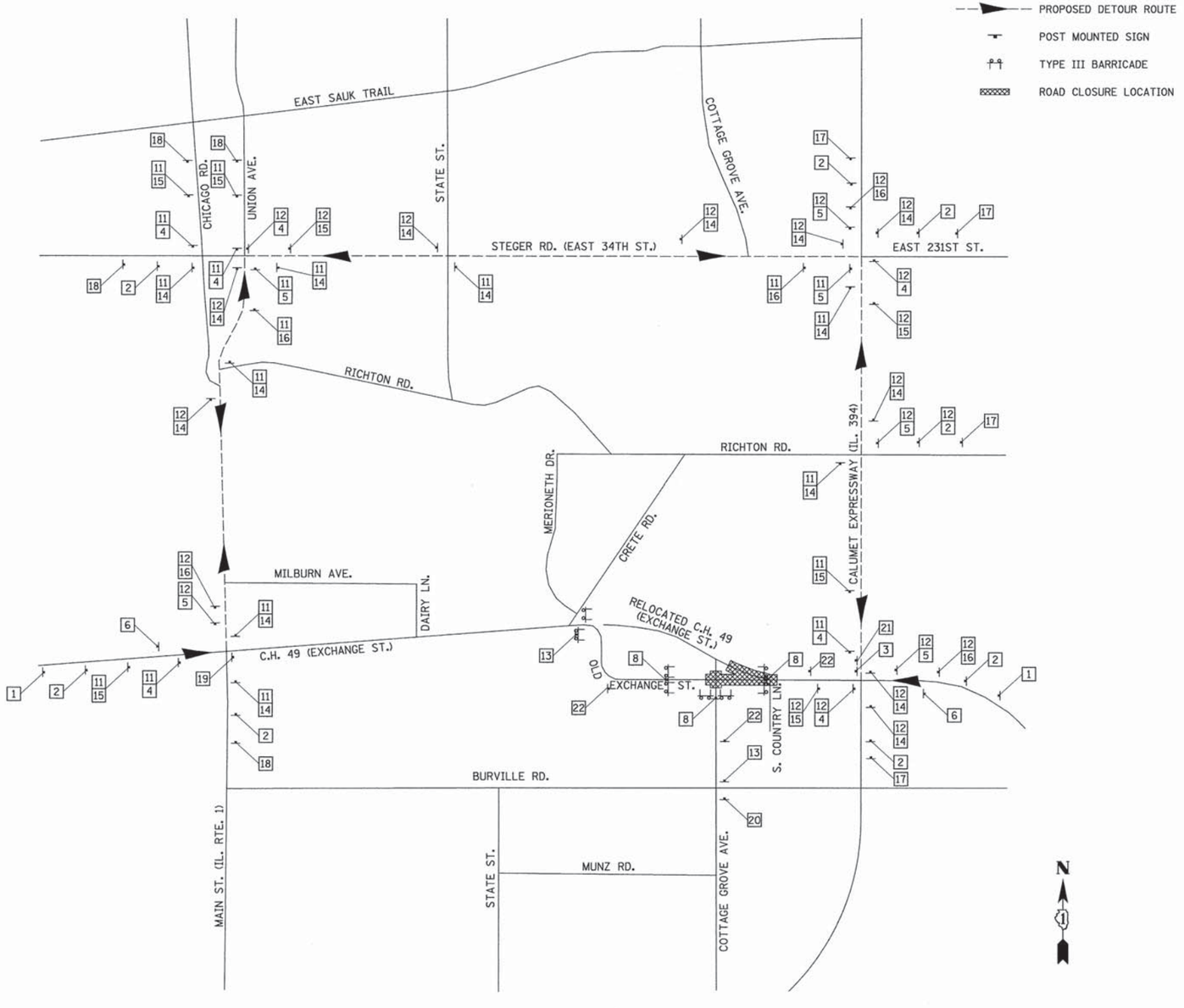
C.H. 49 (EXCHANGE ST.), STAGE 2C CONSTRUCTION PLAN

SCALE: 1"=250' | SHEET NO. 4 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	41
		CONTRACT NO. 63672		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

1. IDOT FORM OPER 2410 SHOULD BE FILLED OUT BY THE CONTRACTOR A MINIMUM OF 3 WEEKS PRIOR TO THE STREET CLOSURE FOR DETOUR ROUTES ASSOCIATED WITH IDOT ROUTES. THIS FORM SHOULD BE SUBMITTED TO CORY JUCIUS AT IDOT DISTRICT 1 FOR REVIEW.
2. THE TEMPORARY DETOUR IS INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR".
3. DISTANCE BETWEEN ALL ADVANCE WARNING SIGNS SHOULD BE 500' PER THE LATEST EDITION OF MUTCD.
4. SEE BLR 21 FOR ADDITIONAL DETAILS.



1	FLASHING WARNING LIGHT ROAD CLOSED AHEAD	W20-3 36" x 36"
2	FLASHING WARNING LIGHT DETOUR AHEAD	W20-2 36' 'x 36"
3	ROAD CLOSED TO THRU TRAFFIC DETOUR	R11-2 60" x 30" M4-10R 48" x 18"
4	EXCHANGE ST. DETOUR	48" x 9" M4-9L 48" x 36"
5	EXCHANGE ST. DETOUR	48" x 9" M4-9R 48" x 36"
6	END DETOUR	M4-8A 24" x 18"
7	ROAD CLOSED DETOUR "NOT USED"	R11-2 48" x 30" M4-10L 48" x 18"
8	ROAD CLOSED	R11-2 48" x 30"
9		R3-1 24" x 24"
10		R3-2 24" x 24"
11	EAST	M3-3 24" x 9"
12	WEST	M3-4 24" x 9"
13	ROAD CLOSED TO THRU TRAFFIC	R11-2 48" x 30"
14	EXCHANGE ST. DETOUR	48" x 9" M4-9 48" x 36"
15	EXCHANGE ST. DETOUR	48" x 9" M4-9L 48" x 36"
16	EXCHANGE ST. DETOUR	48" x 9" M4-9R 48" x 36"
17	EXCHANGE ST. CLOSED WEST OF S. COUNTRY LN.	48" x 36"
18	EXCHANGE ST. CLOSED EAST OF DAIRY LN.	48" x 36"
19	ROAD CLOSED TO THRU TRAFFIC DETOUR	R11-2 60" x 30" M4-10L 48" x 18"
20	COTTAGE GROVE AVE. CLOSED AT EXCHANGE ST	48" x 36"
21	ACCESS TO WALTS OPEN	48" x 36"
22	FLASHING WARNING LIGHT ROAD CLOSED 500 FT	W20-3 36" x 36"

FILE NAME = v:\2456\2456s001.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.)
STAGE 2A & 2B DETOUR PLAN

SCALE: N/A | SHEET NO. 1 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	42
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. IDOT FORM OPER 2410 SHOULD BE FILLED OUT BY THE CONTRACTOR A MINIMUM OF 3 WEEKS PRIOR TO THE STREET CLOSURE FOR DETOUR ROUTES ASSOCIATED WITH IDOT ROUTES. THIS FORM SHOULD BE SUBMITTED TO CORY JUCIUS AT IDOT DISTRICT 1 FOR REVIEW.
2. THE TEMPORARY DETOUR IS INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR".
3. DISTANCE BETWEEN ALL ADVANCE WARNING SIGNS SHOULD BE 500' PER THE LATEST EDITION OF MUTCD.
4. SEE BLR 21 FOR ADDITIONAL DETAILS.

1	FLASHING WARNING LIGHT ROAD CLOSED AHEAD	W20-3	36" x 36"
2	FLASHING WARNING LIGHT DETOUR AHEAD	W20-2	36' 'x 36"
3	ROAD CLOSED TO THRU TRAFFIC DETOUR	R11-2 M4-10R	60" x 30" 48" x 18"
4	EXCHANGE ST. DETOUR ←	48" x 9" M4-9L	 48" x 36"
5	EXCHANGE ST. DETOUR →	48" x 9" M4-9R	 48" x 36"
6	END DETOUR	M4-8A	24" x 18"
7	ROAD CLOSED DETOUR ← "NOT USED"	R11-2 M4-10L	48" x 30" 48" x 18"
8	ROAD CLOSED	R11-2	48" x 30"
9		R3-1	24" x 24"
10		R3-2	24" x 24"
11	EAST	M3-3	24" x 9"
12	WEST	M3-4	24" x 9"
13	ROAD CLOSED TO THRU TRAFFIC	R11-2	48" x 30"
14	EXCHANGE ST. DETOUR ↑	48" x 9" M4-9	 48" x 36"
15	EXCHANGE ST. DETOUR ↰	48" x 9" M4-9L	 48" x 36"
16	EXCHANGE ST. DETOUR ↱	48" x 9" M4-9R	 48" x 36"
17	EXCHANGE ST. CLOSED WEST OF COTTAGE GROVE AVE.	48" x 36"	
18	EXCHANGE ST. CLOSED EAST OF DAIRY LN.	48" x 36"	
19	ROAD CLOSED TO THRU TRAFFIC DETOUR	R11-2 M4-10L	60" x 30" 48" x 18"
20	ACCESS TO WALTS OPEN	48" x 36"	
21	FLASHING WARNING LIGHT ROAD CLOSED 500 FT	W20-3	36" x 36"

FILE NAME = v:\2456\2456s002.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

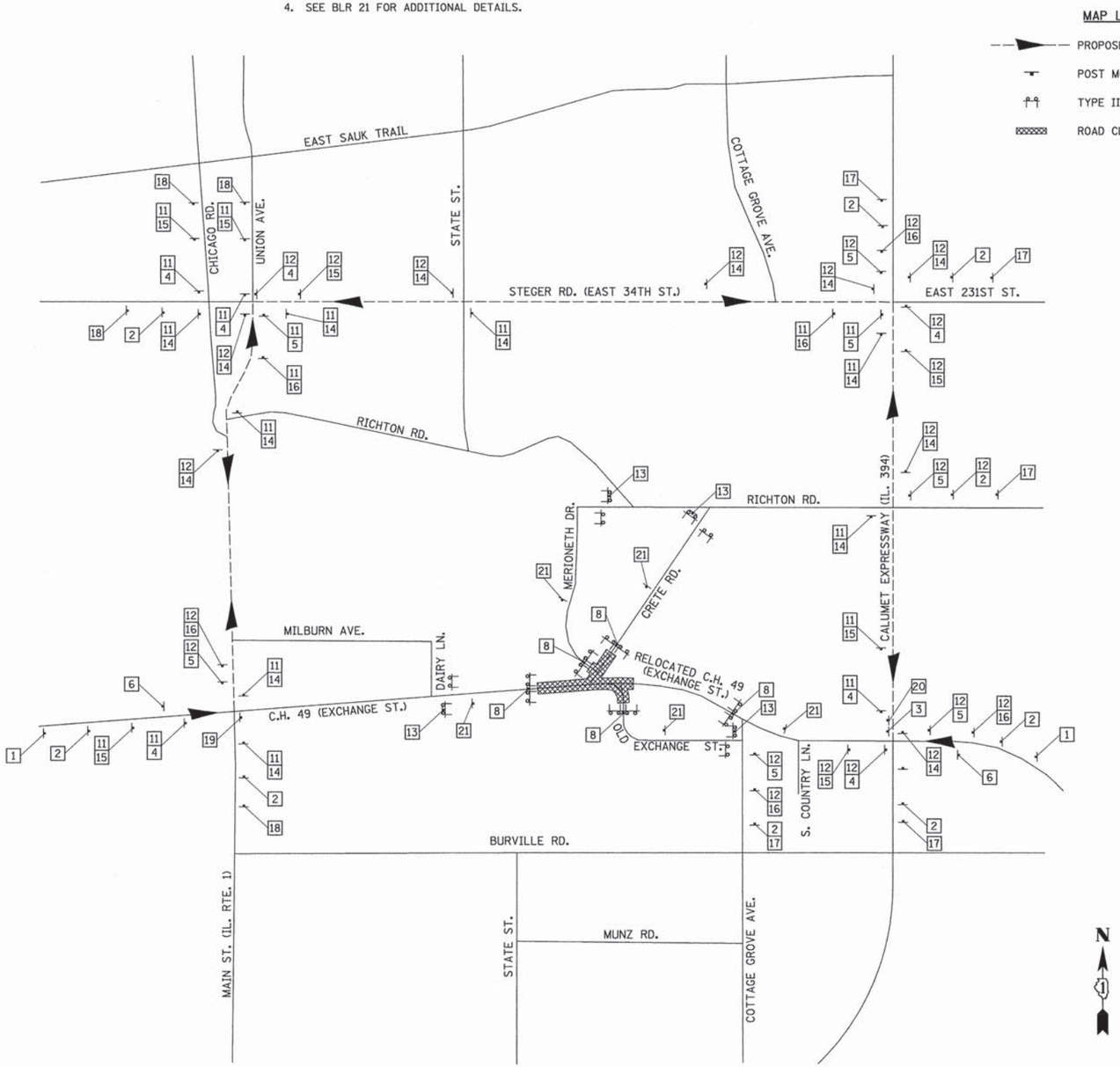
C.H. 49 (EXCHANGE ST.)
STAGE 2B & 2C DETOUR PLAN

SCALE: N/A | SHEET NO. 2 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	43
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. IDOT FORM OPER 2410 SHOULD BE FILLED OUT BY THE CONTRACTOR A MINIMUM OF 3 WEEKS PRIOR TO THE STREET CLOSURE FOR DETOUR ROUTES ASSOCIATED WITH IDOT ROUTES. THIS FORM SHOULD BE SUBMITTED TO CORY JUCIUS AT IDOT DISTRICT 1 FOR REVIEW.
2. THE TEMPORARY DETOUR IS INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR".
3. DISTANCE BETWEEN ALL ADVANCE WARNING SIGNS SHOULD BE 500' PER THE LATEST EDITION OF MUTCD.
4. SEE BLR 21 FOR ADDITIONAL DETAILS.



MAP LEGEND

- PROPOSED DETOUR ROUTE
- POST MOUNTED SIGN
- TYPE III BARRICADE
- ROAD CLOSURE LOCATION

1	FLASHING WARNING LIGHT; ROAD CLOSED AHEAD	W20-3 36" x 36"	
2	FLASHING WARNING LIGHT; DETOUR AHEAD	W20-2 36' 'x 36"	
3	ROAD CLOSED TO THRU TRAFFIC; DETOUR	R11-2 60" x 30"; M4-10R 48" x 18"	
4	EXCHANGE ST. DETOUR	48" x 9"; M4-9L 48" x 36"	
5	EXCHANGE ST. DETOUR	48" x 9"; M4-9R 48" x 36"	
6	END DETOUR	M4-8A 24" x 18"	
7	ROAD CLOSED; DETOUR; "NOT USED"	R11-2 48" x 30"; M4-10L 48" x 18"	
8	ROAD CLOSED	R11-2 48" x 30"	
9		R3-1 24" x 24"	
10		R3-2 24" x 24"	
11	EAST	M3-3 24" x 9"	
12	WEST	M3-4 24" x 9"	
13	ROAD CLOSED TO THRU TRAFFIC	R11-2 48" x 30"	
14	EXCHANGE ST. DETOUR	48" x 9"; M4-9 48" x 36"	
15	EXCHANGE ST. DETOUR	48" x 9"; M4-9L 48" x 36"	
16	EXCHANGE ST. DETOUR	48" x 9"; M4-9R 48" x 36"	
17	EXCHANGE ST. CLOSED WEST OF COTTAGE GROVE AVE.	48" x 36"	
18	EXCHANGE ST. CLOSED EAST OF DAIRY LN.	48" x 36"	
19	ROAD CLOSED TO THRU TRAFFIC; DETOUR	R11-2 60" x 30"; M4-10L 48" x 18"	
20	ACCESS TO WALTS OPEN	48" x 36"	
21	FLASHING WARNING LIGHT; ROAD CLOSED 500 FT	W20-3 36" x 36"	

FILE NAME = v:\2456\2456s003.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

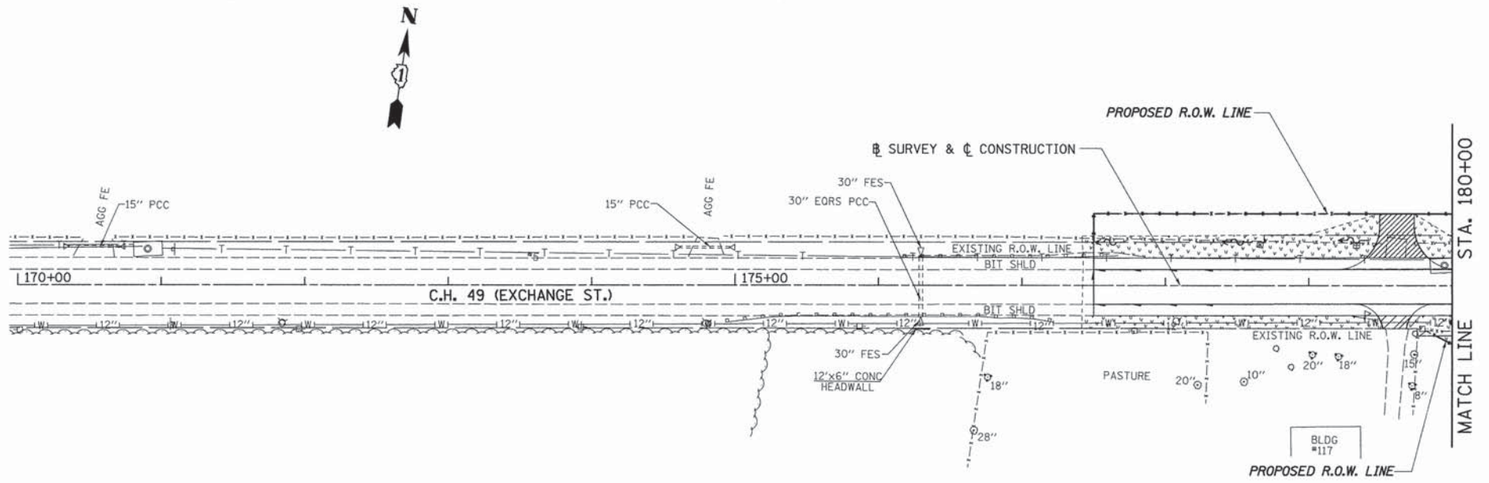
C.H. 49 (EXCHANGE ST.)
STAGE 2C DETOUR PLAN

SCALE: N/A | SHEET NO. 3 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	44
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL NOTES

1. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES IMMEDIATELY AFTER STRIPPING OF EXISTING VEGETATION.
2. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN SEVEN (7) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 95-60.
4. STABILIZATION MEASURES SHALL BE INITIATED WITHIN 7 DAYS OF CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASING IN AREAS WHERE IT WILL NOT OCCUR FOR A PERIOD OF 14 OR MORE CALENDAR DAYS.
5. THE CONTRACTOR SHALL APPLY TEMPORARY EROSION CONTROL SEEDING TO ALL ERODIBLE BARE EARTH AREAS WITHIN THE CONTRACT LIMITS EACH WEEK, REGARDLESS OF WEATHER CONDITIONS OR PROGRESS OF THE WORK, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ERODIBLE EMBANKMENT AND EXCAVATION AREAS WHERE WORK IS IN PROGRESS SHALL BE INCLUDED ON THE AREAS TO BE SEEDED. SEE BDE SPECIAL PROVISION FOR TEMPORARY EROSION CONTROL.
6. THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER ½ INCH OF RAIN OR MORE BY THE INDIVIDUAL ON SITE IN CHARGE OF SOIL EROSION AND SEDIMENT CONTROL DURING THE CONSTRUCTION OF THE PROJECT. THE ENGINEER WILL BE RESPONSIBLE FOR THE EROSION AND SEDIMENT CONTROL INSPECTIONS.
7. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE INSTALLED TO ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 5H:1V AND IN CRITICAL AREAS (I.E. DETENTION BASIN PERIMETERS, STREAMBANKS. BERMS, ETC.) IMMEDIATELY UPON FINAL GRADING.
8. SILT FENCE SHALL BE INSTALLED FOLLOWING THE COMPLETION AND STABILIZATION OF THE STORMWATER FACILITIES AND WILL REMAIN IN PLACE UNTIL THE CONTRIBUTING AREA IS STABILIZED.
9. ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS. INSPECTED DAILY AND CLEANED WHEN NECESSARY OR DIRECTED BY THE ENGINEER.
10. ALL MATERIALS USED FOR TEMPORARY CONSTRUCTION ACTIVITIES WILL BE REMOVED TO UPLAND AREAS IMMEDIATELY FOLLOWING COMPLETION OF THE CONSTRUCTION ACTIVITY.
11. A STAMPED AND SIGNED COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES AND BE PRESENTED WHEN REQUESTED.
12. SEEDING MIXTURE SHALL BE CLASS TYPE 2A AS DETAILED IN SECTION 250 OF THE STANDARD SPECIFICATIONS. PLANTING TIMES ARE LIMITED TO APRIL 1ST TO JUNE 15TH AND AUGUST 1ST TO NOVEMBER 1ST.
13. THE CONTRACTOR WILL BE REQUIRED TO HAVE A DESIGNATED CONCRETE WASH OUT AREA DURING ALL CONCRETE POURS.
14. IF BYPASS PUMPING IS NECESSARY, THE OUTLET SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW.
15. WHEN DEWATERING THE CONSTRUCTION AREA, ALL WATER MUST BE FILTERED PRIOR TO REJOINING THE STREAM FLOW. DEWATERING METHODS SHALL BE CHOSEN BASED ON SITE CONDITIONS, CONSTRAINTS AND SEDIMENT LOADS.
16. THE SIDE SLOPES MUST BE RESEEDED AND STABILIZED WITH AN APPROPRIATE HEAVY DUTY EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS.
17. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE REFERENCED FROM THE ILLINOIS URBAN MANUAL.

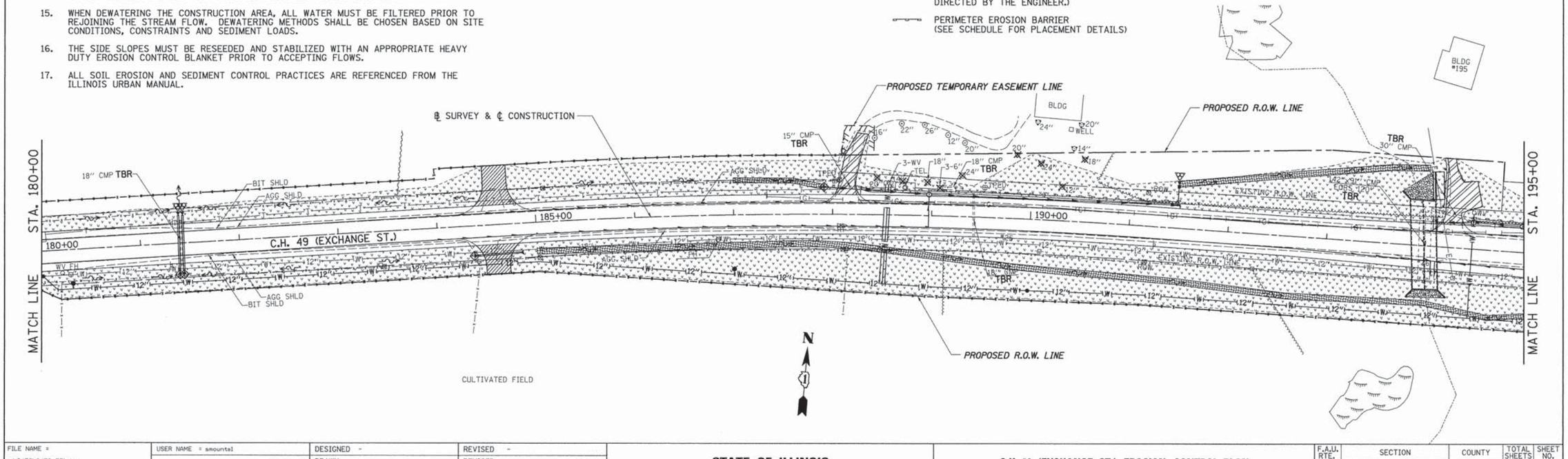


TEMPORARY EROSION CONTROL SEQUENCE OF CONSTRUCTION

1. ESTABLISH TEMPORARY EROSION CONTROL MEASURES AND ERECT PERIMETER EROSION BARRIER ALONG SITE BOUNDARIES PRIOR TO EARTHWORK, IN EACH APPLICABLE STAGE.
2. INSTALL DITCH CHECKS IMMEDIATELY AFTER DITCH GRADING IS COMPLETED.
3. INSTALL TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET.

TEMPORARY EROSION CONTROL LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECKS (SEE SCHEDULE)
- ROCK OUTLET PROTECTION
- STONE RIPRAP
- EROSION CONTROL BLANKET
- TEMPORARY EROSION CONTROL SEEDING (ENTIRE DISTURBED AREA AS DIRECTED BY THE ENGINEER.)
- PERIMETER EROSION BARRIER (SEE SCHEDULE FOR PLACEMENT DETAILS)



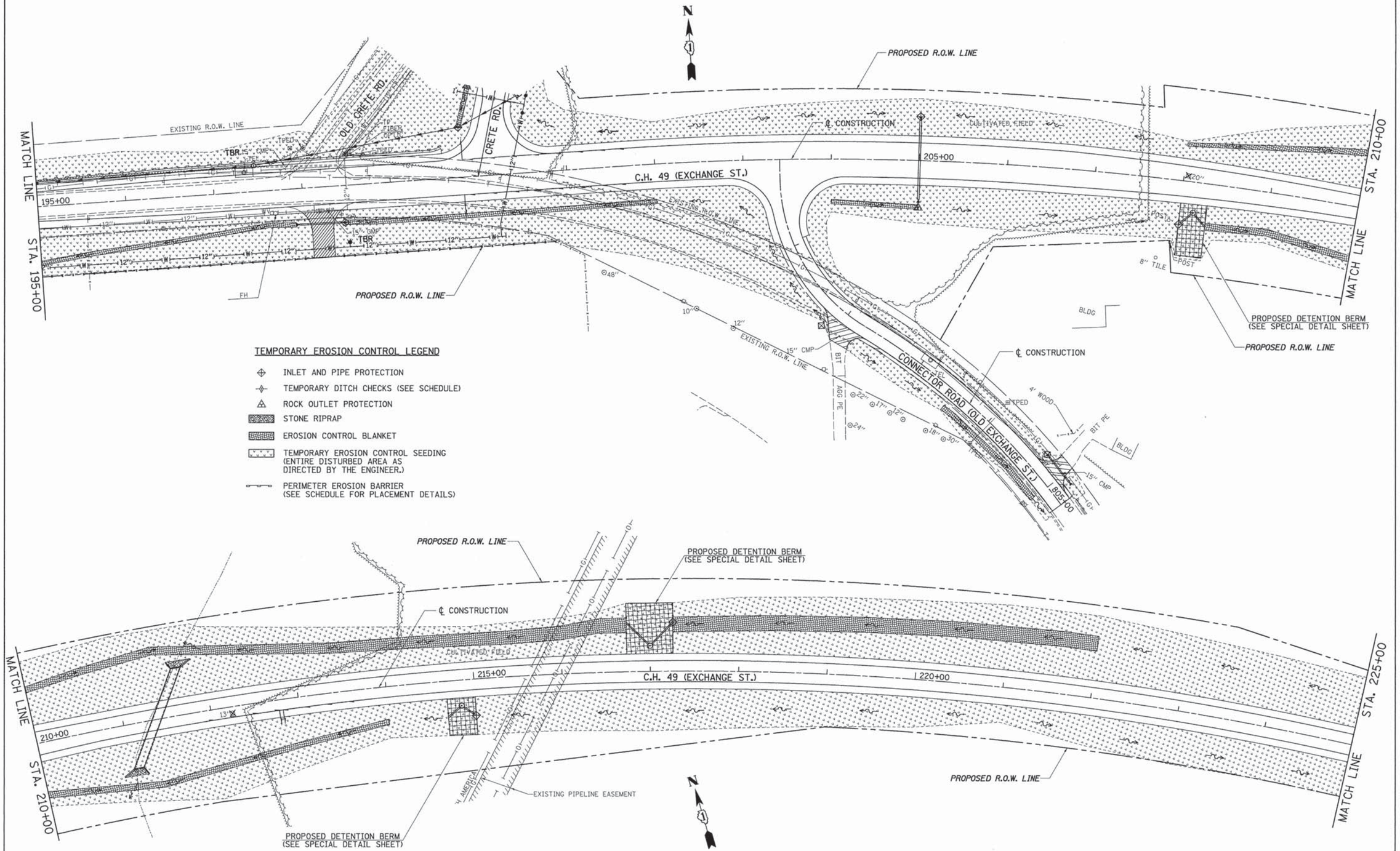
FILE NAME = v:\2456\2456e001.dgn	USER NAME = smountel	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.) EROSION CONTROL PLAN

SCALE: 1"=50' | SHEET NO. 1 OF 4 SHEETS | STA. 165+00 TO STA. 195+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	45
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



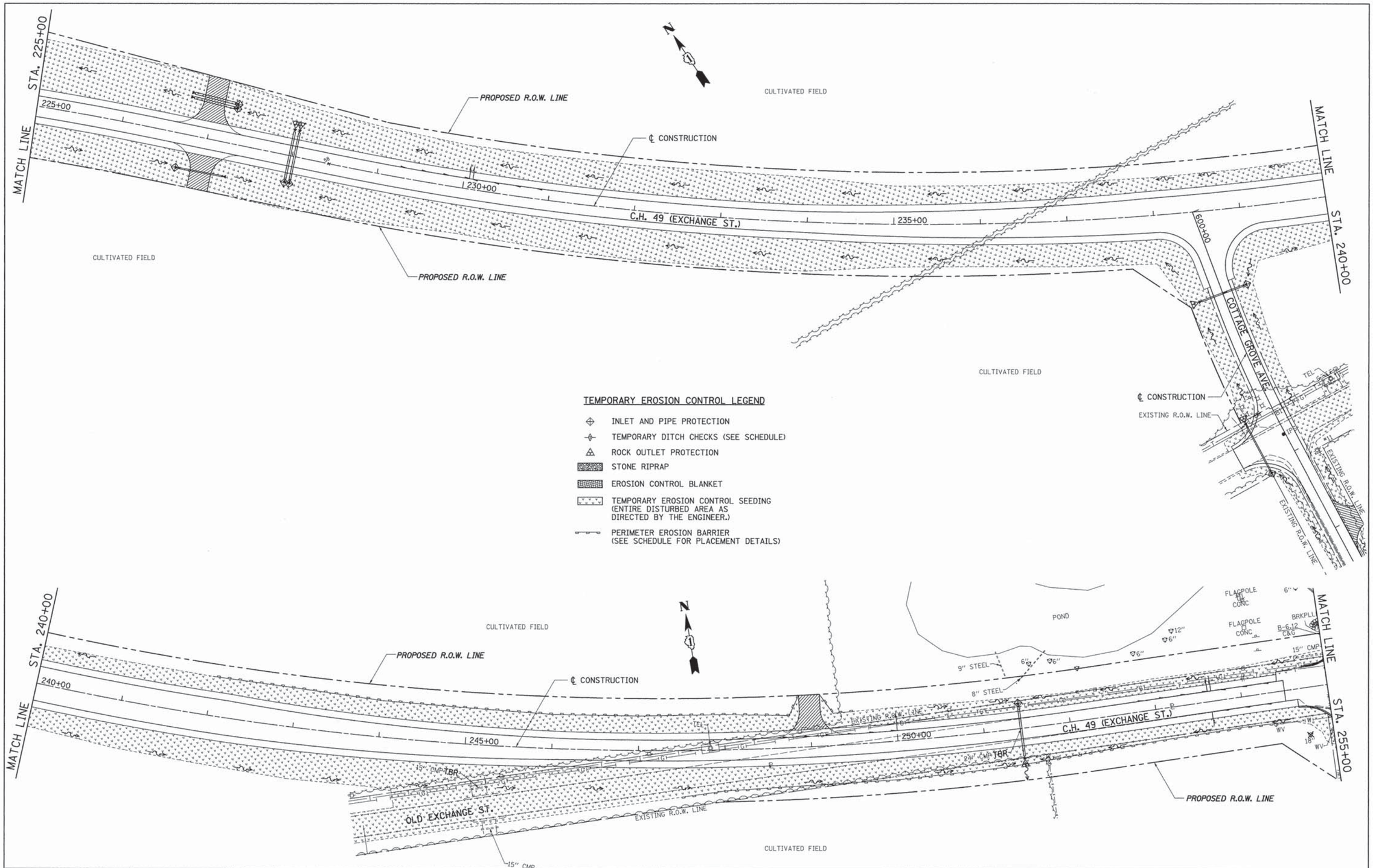
FILE NAME = v:\2456\2456e002.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.) & CONNECTOR ROAD (OLD EXCHANGE ST.)
EROSION CONTROL PLAN

SCALE: 1"=50' | SHEET NO. 2 OF 4 SHEETS | STA. 195+00 | TO STA. 225+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	46
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



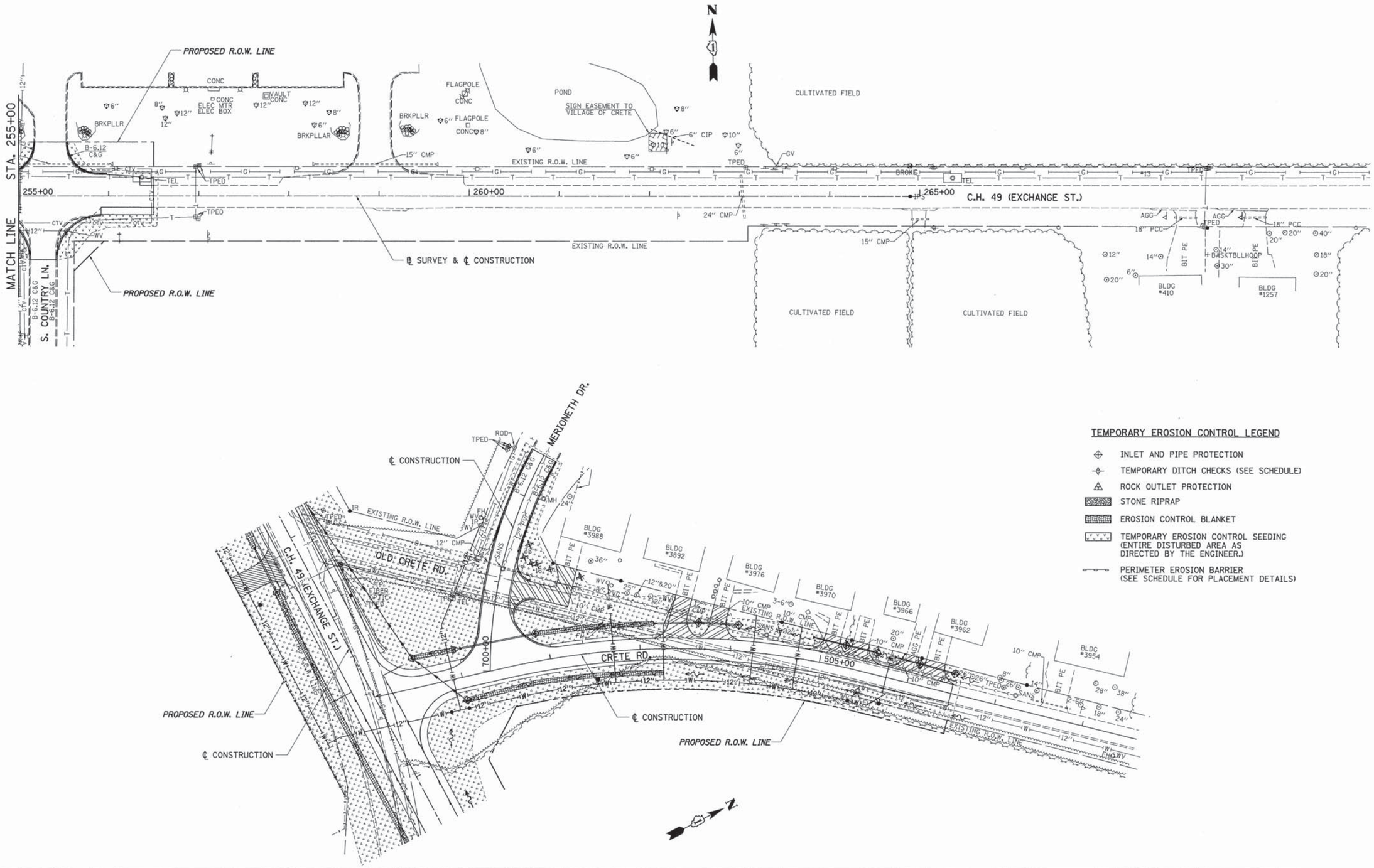
FILE NAME = v:\2456\2456e203.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.) & COTTAGE GROVE AVE.
EROSION CONTROL PLAN

SCALE: 1"=50' | SHEET NO. 3 OF 4 SHEETS | STA. 225+00 TO STA. 255+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	47
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TEMPORARY EROSION CONTROL LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECKS (SEE SCHEDULE)
- ROCK OUTLET PROTECTION
- STONE RIPRAP
- EROSION CONTROL BLANKET
- TEMPORARY EROSION CONTROL SEEDING (ENTIRE DISTURBED AREA AS DIRECTED BY THE ENGINEER.)
- PERIMETER EROSION BARRIER (SEE SCHEDULE FOR PLACEMENT DETAILS)

FILE NAME = vt\2456\2456e004.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.), CRETE RD. & MERIONETH DR.
EROSION CONTROL PLAN

SCALE: 1"=50' | SHEET NO. 4 OF 4 SHEETS | STA. 255+00 TO STA. 265+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	48
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NATURAL RESOURCES CONSERVATION SERVICE
ILLINOIS URBAN MANUAL
PRACTICE STANDARD

DUST CONTROL

(acres)
CODE 825

DEFINITION

Control of dust blowing and movement on construction sites and roads.

PURPOSE

The purposes of this practice are to prevent blowing and movement of dust from exposed soil surfaces, to reduce on and off-site damage, to minimize health hazards, and to improve traffic safety.

CONDITIONS WHERE PRACTICE APPLIES

This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

CRITERIA

The following are temporary and permanent methods for dust control.

Temporary Methods

1. Mulches - See practice standard MULCHING 875. Chemical or wood cellulose fiber binders may be used instead of asphalt to bind mulch material.
2. Vegetative Cover - See practice standard TEMPORARY SEEDING 965.
3. Spray-on Adhesives - These may be used on mineral soils. They are not effective on muck soils. Keep traffic off these areas after application.

   Anionic asphalt emulsion: water dilution - 7:1, coarse spray, 1,200 gal/acre.

   Latex emulsion: water dilution - 12.5:1, fine spray, 235 gal/acre.

   Resin-in-water emulsion: water dilution - 4:1, fine spray, 300 gal/acre.

4. Tillage - Roughen the surface and bring clods to the surface. This is an emergency measure that should be used before soil blowing starts. Begin tillage on windward side of site. Chisel plows with shanks spaced about 12"-18" apart and spring-toothed harrows are examples of equipment that may produce the desired effect.
5. Irrigation - This is commonly used and affords fast protection for haul roads and other heavy traffic roads. The site is sprinkled with water until the surface is moist. Repeat as needed.
6. Barriers - Solid board fences, snow fences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and blowing soil. Barriers placed at right angles to prevailing wind currents at intervals of about 10 times their height are effective in controlling soil blowing.
7. Calcium Chloride - Apply at a rate that will keep the surface moist. This chemical may be applied by a mechanical spreader as loose, dry granules or flakes at a rate that keeps the surface moist but not so much as to cause water pollution or plant damage. Application rates should be strictly in accordance with the manufacturer's specified rates. Periodic re-treatment may be needed.
8. Stone - Stone can be used to stabilize roads or other areas during construction using crushed stone or coarse gravel. See practice standard STABILIZED CONSTRUCTION ENTRANCE 930.
9. Street cleaning - Paved areas that have soil on them from construction sites should be cleaned daily, or as needed, utilizing a street sweeper or bucket-type endloader or scraper.

Permanent Method:

1. Permanent vegetation - See the practice standard PERMANENT SEEDING 880 or SODDING 925. Existing trees or large shrubs may afford valuable protection if left in place.

CONSIDERATIONS

The easiest way to control dust is to avoid exposed soil surfaces. This is not possible on most construction sites, but the area exposed can usually be reduced by careful planning of controlled traffic patterns and by phasing of clearing and grading operations. Consider use of undisturbed vegetative buffers (min. 50 ft.) between graded areas and protected areas.

PLANS AND SPECIFICATIONS

Plans and specifications for dust control shall be in keeping with this standard and shall describe the requirements for applying the practice to achieve its intended purpose. At a minimum the following items should be included:

1. The area to be treated.
2. The methods that are acceptable to use.

Specifications should indicate when dust control is needed and the method of control to be used. Appropriate industry standards should be used.

All plans shall include the installation, inspection, and maintenance schedules with the responsible party identified.

OPERATION AND MAINTENANCE

When temporary dust control measures are used, repetitive treatment should be applied as needed to accomplish control.

NRCS IL February 1994

urbst825.doc

FILE NAME = V:\2456\2456e005.dgn	USER NAME = smountsl	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**C.H. 49 (EXCHANGE ST.) EROSION CONTROL DETAILS**			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					1638	05-00086-14-FP	WILL	124	49
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -							CONTRACT NO. 63672		
	PLOT DATE = 8/15/2013	DATE -	REVISED -		SCALE: N/A	SHEET NO. 1 OF 8 SHEETS	STA. N/A TO STA. N/A	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NATURAL RESOURCES CONSERVATION SERVICE
ILLINOIS URBAN MANUAL
PRACTICE STANDARD

EROSION BLANKET

(no.)
CODE 830

DEFINITION

A preformed protective blanket of straw or other plant residue, or plastic fibers formed into a mat, usually with a plastic mesh on one or both sides.

PURPOSE

The purposes of this practice are to protect the soil surface from raindrop impacts and overland flow during the establishment of grass or other vegetation, and to reduce soil moisture loss due to evaporation.

CONDITIONS WHERE PRACTICE APPLIES

This practice applies where the protection of newly seeded areas is critical. This is especially important where flowing water may occur before the grass is established. The most common application for erosion control blankets is in the bottom of small channels and on steep embankments.

CRITERIA

Erosion blankets shall be installed after all topsoiling, fertilizing, liming and seeding is complete.

The blanket shall be in firm contact with the soil. It shall be anchored per the manufacturer's recommendation with the proper number and spacing of wire staples. The staples shall be the proper width and length to meet the manufacturer's recommendations.

On slopes and in small drains the blanket shall be unrolled upstream to downstream parallel to the direction of flow. The upstream end of each blanket shall be anchored in a minimum 6-inch deep anchor trench. These blankets, when laid side by side, shall overlap a minimum of 4 inches. When more than one blanket length is needed, the material shall be overlapped 12 inches over the downstream piece. All edges shall be stapled as per manufacturer's recommendation.

CONSIDERATIONS

Erosion blankets will be located as part of the site development plan. They will protect the ground surface from raindrop impacts and flowing water. They will also retain moisture on seeded areas thus increasing the potential for germination and survival of the vegetation. Erosion blankets materials will break down over time. They should be chosen so that they last long enough for the grass or other vegetation to become established.

PLANS AND SPECIFICATIONS

Plans and specifications for installing erosion blankets shall be in keeping with this standard and shall describe the requirements for applying the practice to achieve its intended purpose. At a minimum include the following items:

1. Location of the erosion blanket.
2. Type of blanket.
3. Location and cross section of anchor trenches.

All plans shall include the installation, inspection, and maintenance schedules with the responsible party identified.

Standard drawing EROSION BLANKET PLAN IL-530 may be used as the plan sheet.

OPERATION AND MAINTENANCE

Inspect all erosion blankets periodically and after rainstorms to check for damage due to water running under the blanket or if the blankets that have been displaced. Where water has flowed under the blanket, more staples may be needed per given area or more frequent anchoring trenches installed. If significant erosion has occurred under the blanket then reseeding may be needed. Any erosion blankets that have been displaced will need to be put back and restapled.

NRCS IL August 1994

urbst830.doc

FILE NAME = V:\2456\2456e006.dgn	USER NAME = smountsl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C.H. 49 (EXCHANGE ST.) EROSION CONTROL DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					1638	05-00086-14-FP	WILL	124	50
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -							CONTRACT NO. 63672		
	PLOT DATE = 8/15/2013	DATE -	REVISED -		SCALE: N/A	SHEET NO. 2 OF 8 SHEETS	STA. N/A TO STA. N/A	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NATURAL RESOURCES CONSERVATION SERVICE
ILLINOIS URBAN MANUAL
PRACTICE STANDARD

MULCHING

(no.)
CODE 875

DEFINITION

The application of plant residues and other suitable materials to the soil surface.

PURPOSE

The purposes of this practice are as follows:

1. To prevent erosion and prevent surface compaction or crusting by protecting the soil surface from raindrop impact and reducing the velocity of overland flow.
2. To foster the growth of vegetation by conserving available moisture and providing insulation against extreme heat and cold.
3. To improve the aesthetics of the site.
4. To control weeds.

CONDITIONS WHERE PRACTICE APPLIES

Temporary Mulches:

1. Areas that have been seeded to provide a temporary or permanent seeding.
2. Areas that cannot be seeded because of the season of the year and need for soil surface protection.
3. For mud and dust control.
4. Provide protection during periods when construction or seeding cannot be done.

Permanent Mulches:

1. Used together with planting trees, shrubs, and other ground covers that do not provide adequate soil stabilization.
2. Used in lieu of vegetative planting for ornamental reasons or because the site is not suitable for vegetation.

CRITERIA

A. The choice of materials will be based on the type of soil to be protected, season and economics.

B. Prior to Application

1. Shape and grade, as required, the waterway, channel, slope, or other area to be protected.
2. Remove all rocks, clods, or debris larger than 2 inches in. diameter that will prevent contact between the mulch and the soil surface.
3. When open-weave nets are used, lime, fertilizer, and seed may be applied either before or after laying the net. When excelsior matting is used. These materials must be applied before the mat is laid.

0 Time of Application

1. Immediately after seeding or planting by conventional method or hydroseeding. Can be applied with seeding as hydromulching.
2. Immediately after seedbed preparation when dormant seedings are to be made by seeding over the mulch.
3. When temporary erosion control is to be attained, mulch may be applied any time soil and site conditions are suitable for spreading and anchoring.

1 Application

Mulch materials shall be spread uniformly, by hand or machine. When spreading straw mulch by hand, divide the area to be mulched into approximately 1,000 sq. ft. sections and place approximately 90 lbs. of straw in each section to facilitate uniform distribution.

2 Mulch Anchoring

Straw mulch shall be anchored immediately after spreading to prevent wind blow. One of the following methods of anchoring straw shall be used:

1. Mulch anchoring tool - This is a tractor-drawn implement (mulch crimper, serrated straight disk, or dull farm disk) designed to punch mulch approximately 2 inches into the soil surface. This method provides maximum erosion control with straw. It is limited to use on slopes no steeper than 3:1, where equipment can operate safely. Machinery shall be operated on the contour.
2. Liquid mulch binders - Application of liquid mulch binders and tackifiers should be heaviest at edges of areas and at crests of ridges and banks, to prevent wind blow. The remainder of the area should have binder applied uniformly. Binders may be applied after mulch is spread; however, it is recommended sprayed into the mulch as it is being blown onto the soil. Applying straw and binder together is the most effective method.

The following types of binders may be used:

a. Asphalt - Any type of asphalt thin enough to be blown from spray equipment is satisfactory. Recommended for use are rapid curing (RC-70, RC-250, RC-800), medium curing (MC-250, MC-800) and emulsified asphalt (SS-1, MS-2, RS-1, and RS-2).
b. Synthetic binders - Chemical binders may be used as recommended by the manufacturer to anchor mulch. These are expensive, and therefore, usually used in small areas or in residential areas where asphalt may be a problem.
c. Wood Fiber - Wood fiber hydroseeder slurries may be used to tack straw mulch. This combination treatment is well suited to steep slopes and critical areas, and severe climate conditions.

3. Mulch nettings - Lightweight, degradable, plastic, polyester, or paper nets may be stapled over the mulch according to manufacturer's recommendations.
4. Peg and twine - Because it is labor-intensive, this method is feasible only in small areas where other methods cannot be used. Drive 8 to 10-inch wooden pegs to within 3 inches of the soil surface, every 4 feet in all directions. Stakes may be driven before or after straw is spread. Secure mulch by stretching twine between pegs in a criss-cross-within-a-square pattern. Turn twine 2 or more times around each peg.

Chemical Mulches - Chemical mulches may be used alone only in the following situations:

1. Where no other mulching material is available.
2. In conjunction with temporary seeding during the times when mulch is not required for that practice.

Note: Chemical mulches may be used to bind other mulches or with wood fiber in a hydroseeded slurry at any time. Manufacturer's recommendations for application of chemical mulches shall be followed.

Nets and Mats - Nets may be used alone on level areas, on slopes no steeper than 3:1, and in waterways.

When mulching is done in late fall or during June, July, and August, or where soil is highly erodible, nets should only be used in conjunction with an organic mulch such as straw.

When nets and organic mulch are used together, the net should be installed over the mulch except when the mulch is wood fiber. Wood fiber may be sprayed on top of the installed net.

Excelsior blankets are considered protective mulches and may be used alone on erodible soils and during all times of year.

Other products designed to control erosion shall conform to manufacturer's specification and should be applied in accordance with manufacturer's instructions provided those instructions are at least as stringent as this specification.

Laying the Net:

1. Start laying net from top of channel or top of slope and unroll downgrade. Always lay netting in the direction of water flow.
2. Allow to lie loosely on soil--do not stretch.
3. To secure net: Upslope ends of net should be buried in a slot or trench no less than 6 inches deep. Tamp earth firmly over net. Staple the net every 12 inches across the top end. Edges of net shall be stapled every 3 feet. Where 2 strips of net are laid side by side, the adjacent edges shall be overlapped 3 inches and stapled together.

Staples will be made of plain iron wire, No. 8 gauge or heavier, and will be 6 inches or more in length. Staples shall be placed down the center of net strips at 3-foot intervals. DO NOT STRETCH net when applying staples.

Joining strips - Insert new roll of net in trench, as with upslope ends of net. Overlap the end of the previous roll 18 inches, turn under 6 inches, and staple across end of roll just below anchor slot and at the end of the turned-under net every 12 inches.

At bottom of slopes - Extend net out onto a level area before anchoring. Turn ends under 6 inches, and staple across end every 12 inches.

Check slots - On highly erodible soils and on slopes steeper than 4:1, erosion check slots should be made every 15 feet. Insert a fold of net into a 6-inch trench and tamp firmly. Staple at 12-inch intervals across the downstream portion of the net.

Rolling - After installation, stapling, and seeding, the net should be rolled to ensure firm contact between net and soil.

CONSIDERATIONS

1. A surface mulch is one of the most effective means of controlling runoff and erosion on disturbed lands.
2. The choice of materials for mulching shall be based on the type of soil to be protected, site conditions, season, and economics.
3. Organic mulch materials such as straw, wood chips, bark, and wood fiber have been found to be the most effective.
4. Chemical soil stabilizers or soil binders are not effective mulches when used alone. These materials are useful to bind organic mulches together.
5. A variety of mulch nets, mats, or blankets are available to use as mulching or to hold the mulch in place. Netting and mats are especially helpful on critical areas such as waterways.

Organic Mulches:

Straw - The mulch most commonly used in conjunction with seeding. The recommended straw should come from oats, wheat, rye or barley, and may be spread by hand or machine. Straw can be windblown and should be anchored to stay in place.

Wood Chips - Suitable for areas that will not be closely mowed, and around ornamental plantings. Chips decompose slowly and do not require tacking. They should be treated with 12 pounds nitrogen per ton to prevent nutrient deficiency in plants. They also can be very inexpensive mulch if obtained from trees cleared on the site.

Bark Chips, Shredded Bark - By-products of timber processing. They are often used in landscaped plantings. Bark is also suitable mulch for areas planted to grasses and not closely mowed; and may be applied by hand or mechanically. Bark is not usually toxic to grasses or legumes, and additional nitrogen fertilizer is not required.

There are other organic materials that make excellent mulches but are only available locally or seasonally. Creative use of these materials can reduce costs.

Chemical Mulches and Soil Binders:

A wide range of synthetic, spray-on materials are marketed to stabilize and protect the soil surface. These are emulsions or dispersions of vinyl compounds, asphalt, rubber, or other substances which are mixed with water and applied to the soil. They may be used alone or may be used to tack wood fiber hydromulches or straw.

When used alone, chemical mulches do not have the capability to insulate the soil or retain soil moisture that organic mulches have. This soil protection is also damaged by traffic. Application of these mulches is usually more expensive than organic mulching, and the mulches decompose in 60-90 days.

Nets and Mats:

When used alone, netting does not retain soil moisture or modify soil temperature. It stabilizes the soil surface while grasses are being established, and is useful in grassed waterways and on slopes. Light netting may also be used to hold other mulches in place.

The most critical aspect of installing nets and mats is obtaining firm, continuous contact between the material and the soil. Without such contact, the material is useless and erosion occurs. It is important to use an adequate number of staples and to roll the material after laying it to ensure that the soil is protected.

Aggregate Cover - Gravel and crushed stone provide a long-term protection against erosion, particularly on short slopes. Before the gravel or crushed stone is applied it should be washed. If vegetation is not desired, black polyethylene sheeting should be placed on the ground first to prevent seed germination and growth through the aggregate cover.

PLANS AND SPECFICATIONS

Plans and specifications for applying mulch shall be in keeping with this standard and shall describe the requirements for applying the practice to achieve its intended purpose. Include the following items:

1. Materials to be used.
2. How mulch will be anchored.
3. Location of different materials if more than one material is used on the site.

OPERATION AND MAINTENANCE

All mulches should be inspected periodically, in particular after rainstorms, to check for rill erosion. Where erosion is observed, additional mulch should be applied. Nets should be inspected after rainstorms for dislocation or failure. If washouts or breakage occur, re-install netting as necessary after repairing damage to the slope. Inspections should occur until grasses are firmly established. Where mulch is used in conjunction with ornamental plantings, inspect periodically throughout the year to determine if mulch is maintaining coverage of the soil surface; repair as needed.

NRCS IL December 1994

urbst875.doc

FILE NAME = V:\2456\2456e007.dgn	USER NAME = smountsl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C.H. 49 (EXCHANGE ST.) EROSION CONTROL DETAILS			
		DRAWN -	REVISED -					
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -					
	PLOT DATE = 8/15/2013	DATE -	REVISED -		SCALE: N/A	SHEET NO. 3 OF 8 SHEETS	STA. N/A	TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	51
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NATURAL RESOURCES CONSERVATION SERVICE
ILLINOIS URBAN MANUAL
PRACTICE STANDARD

PERMANENT SEEDING

(acres or sq. ft.)
CODE 880

DEFINITION

Establishing permanent vegetative cover to stabilize disturbed areas.

PURPOSE

The purpose of this practice is to reduce erosion and decrease sediment from disturbed areas, and to permanently stabilize such areas in a manner that adapts to site conditions and allows selection of the most appropriate plant materials.

CONDITIONS WHERE PRACTICE APPLIES

1. Disturbed areas where long-lived vegetative cover is needed to stabilize the soil.

2. On other areas where cover is desired.

CRITERIA

Selection of plant materials - Selection of plant materials will be based on climate, topography, soils, landuse, available light, aesthetics and maintenance. See tables A, B and C for selection of grasses and legumes and ground covers. For trees and shrubs see practice standard 985, TREE AND SHRUB PLANTING.

Site Preparation - The soil must meet minimum requirements as a good growth medium.

a. Must have enough fine-grained (silt & clay) material to maintain adequate moisture and nutrient supply and sufficient pore space to permit root penetration. The bulk density should be 1.2 to 1.5 grams per cubic centimeter. Clay content should not exceed 35 percent.
b. The depth of suitable rooting material to rock or impermeable layers shall be 12 inches or more, except on steep slopes where adding soil material is not feasible.
c. A pH range of 5.5 to 6.5
d. Be free of toxic amounts of materials harmful to plant growth.

If any of the above criteria cannot be met by the addition of modifying materials, i.e.: lime or organic material, then topsoil shall be applied in accordance with practice standard 981 TOPSOILING.

The following materials may be used where needed to improve the soil conditions for plant growth.

Peat - Appropriate types are sphagnum moss peat, hypnum moss peat, reed sedge peat, or peat humus from fresh water sources.

Sand - clean and free of toxic materials.

Vermiculite - horticultural-grade and free of toxic substances.

Rotted manure - horse or cattle manure not containing undue amounts of straw or other bedding materials. Incorporate to reduce potential odor problems.

Thoroughly rotted sawdust - free of stones and debris.

Sludge- treated sewage and industrial sludges should be used only in accordance with local, state and federal regulations.

Where extensive excavation is to be done and the subsoil materials will not be suitable for plant growth, remove and stockpile existing topsoil and re-apply when final grade is achieved.

Install necessary mechanical erosion and sedimentation control practices before seeding, and complete grading according to the approved plan.

Seedbed preparation:

1. Apply fertilizer and other required soil amendments prior to final seedbed preparation.
2. Prepare a seedbed to a minimum depth of 3 inches by disking or other suitable means. All tillage operations should be on the contour.

Fertilization - Lime and fertilizer needs should be determined by soil tests. When soil tests are not available, apply 1000 pounds per acre or 25 pounds per 1000 square feet of 12-12-12 fertilizer or equivalent.

Seed - Certified seed will be used for all permanent seedings whenever possible. All legumes will be inoculated with the proper inoculant prior to seeding.

Seeding - Seeding may be done by any of the following methods:

A. Conventional

1. Prepare seedbed and incorporate lime and fertilizer.
2. Apply seed uniformly at a depth of 1/4 to 1/2 inch with a drill (band seed) or cultipacker seeder or broadcast seed uniformly and cover to 1/4 to 1/2 inch depth with a cultipacker, or similar tool.
3. Mulch following seeding.

B. Hydroseeding

1. Final seedbed preparation should leave the soil surface in a roughened condition.
2. Lime and fertilizer should be incorporated prior to seeding unless they are to be applied at the same time of the seed (applying lime with a hydroseeder may be abrasive to the equipment).
3. No less than 1000 gallons of water per acre will be used.
4. When seeding legumes, increase the recommended rate for inoculant four times.
5. If seed and fertilizer are mixed together they should be seeded within 2 hours of mixing. Beyond 2 hours, a full rate of new seed may be necessary.
6. Cultipacking or harrowing following seeding will help insure a better stand.

C. Dormant seeding may be made between November 15 and March 1 by either of the following methods:

1. Conventional Method - If soil conditions are suitable during the dormant seeding period, apply lime and fertilizer, prepare the seedbed and seed as specified in this specification. Increase the seeding rate at least 50%. Mulch following seeding.
2. Overseeding Method - Liming, fertilizing, seedbed preparation and mulching may be done after August 31. The seed shall be broadcast uniformly over the mulch between November 15 and March 1. When this is done, increase the seeding rates 50%.

Sprigging - Some plants cannot be grown from seed and must be planted vegetatively. Sprigs are fragments of horizontal stems or roots that include at least one node (joint). Sprigs may be planted by either of the following methods.

A. Broadcast sprigs and press into the top 1/2 to 2 inches of soil with a cultipacker or a disk set straight so that the sprigs are not brought back toward the surface.

B. Make furrows 4-6 inches deep and 2 feet apart. On sloping areas, make furrows perpendicular to the slope (on the contour). Place sprigs in the furrows with one end at or above ground level. Close the furrow when plants have been placed.

C. Plant sprigs in furrows with a tractor-drawn transplanter. Sprigging should be done during specified seeding periods.

Planting ground covers - Most shrub and vine type ground covers are available as bare root stock, balled and burlapped, or in containers or pots. On flat areas where erosion is not a problem, prepare the site by tilling to a depth of 10-12 inches. On sloping sites, till 2 - 3 inches deep to incorporate needed soil amendments.

When planting individual plants, prepare a hole slightly larger than the container or ball and deep enough that the roots can extend to the bottom. Most ground covers should be planted 1/2" to 1" deeper than they have grown in the pot or container.

Mulching - All permanent seedings and plantings will be mulched upon completion of seed application or planting. Refer to practice standard 875, MULCHING. When planting ground covers it may be advantageous to mulch prior to planting.

CONSIDERATIONS

Protect the area from excess runoff as necessary with diversions, grass-lined channels, terraces, or sediment basins.

Evaluate the capabilities and limitations of the soil to be seeded or planted. Special attention needs to be given to soil pH, texture, internal water movement, steepness, and stability in order to plan the appropriate treatment.

Plant species should be selected on the basis of soil type, planned use of the area, and the amount or degree of maintenance that can be devoted to the area in the future. Consideration should be given to using native vegetation where possible. Landuse and maintenance, whether residential, industrial, commercial or recreational, can be divided into two general categories:

High-maintenance areas are mowed frequently, limed and fertilized regularly, and either (1) receive intensive use (e.g., athletic fields or golf courses) or (2) require maintenance to an aesthetic standard (e.g., home lawns). Grasses or ground covers used for these situations are long-lived perennials that form a tight sod and are fine-leafed and attractive in appearance. They must be well adapted to the geographic area where they are planted and able to endure the stress of frequent mowing. Sites where high-maintenance vegetative cover is desirable include homes, industrial parks, schools, churches, and recreational areas.

Low-maintenance areas are mowed infrequently or not at all, and do not receive lime and fertilizer on a regular basis. Plants must persist with little maintenance over long periods of time. Grass and legume mixtures are favored for these sites because legumes are a source of soil nitrogen. Mixed stands are also more resistant to adverse conditions. Prairie grass may be appropriate but are slow to establish. Sites suitable for low-maintenance vegetation include steep slopes, stream or channel banks, some commercial properties and roadbanks.

Fertilizer, lime, seedbed preparation, seed coverage, mulch, and irrigation should be used as necessary to promote quick plant growth.

Vegetation cannot be expected to provide erosion control cover and prevent soil slippage on a soil that is not stable due to its structure, water movement, or excessive slope.

The operation of equipment is restricted and may be unsafe on slopes steeper than 3:1. Where steepness prohibits the use of farm machinery, seedbed preparation, fertilization, and seeding or planting may need to be done by hand.

Mulching, in addition to preventing erosion during establishment, may make the difference in success or failure of the seeding. When selecting mulching materials, consider steepness and length of slopes, areas of concentrated runoff water flow, and materials that will provide protection to the site in case the seeding or planting fails.

Moisture is essential for seed germination and seedling establishment. Supplemental irrigation can be very helpful in assuring adequate stands in dry seasons or to speed development of full cover.

PLANS AND SPECIFICATIONS

The plans and specifications for seeding or planting and mulching shall include the following items:

1. Seeding mixtures and rates, or plant species and density.
2. Site preparation.
3. Fertilization.
4. Seeding or planting methods.
5. Seeding or planting periods.
6. Mulching materials and application rates.

All plans shall include the installation, inspection, and maintenance schedules with the responsible party identified.

OPERATION AND MAINTENANCE

Generally, a stand of vegetation cannot be determined to be fully established until soil cover has been maintained for one full year from planting.

Protect the planted area from human, animal and vehicular traffic until the stand is adequately established.

Inspect all planted areas for failures and make necessary repairs, replacements, reseedings, and remulching within the planting season, if possible. If a stand has less than 40% cover, re-evaluate the choice of plant materials, quantities of lime and fertilizer, seeding or planting methods, time of seeding or planting and available light and moisture. Re-establish the stand following the original specifications, but with modifications based on the evaluation.

Where an adequate water supply is available, irrigate to keep the seedbed moist (not wet) for 7 to 10 days after seeding. This may require watering daily the first week, especially during hot weather, and less frequently thereafter. Water application rates must be carefully controlled to prevent runoff and erosion. Inadequate or excessive amounts of water can be more harmful than no supplemental water. Irrigation is seldom needed for low-maintenance seedings made at the appropriate time of the year.

Both low and high-maintenance seedings should be fertilized one year after planting to strengthen the plants and insure proper stand density. The following recommendations may be used:

1. For grass only stands, apply 500 lbs./acre (12 lbs/1000 sq. ft.) of 10-20-10, or equivalent.
2. For grass-legume or pure legume stands, apply 500 Lbs./ac. (12 lbs./1000 sq. ft.) of 10-20-20, or equivalent.
3. The best time to apply fertilizer is between March 1 and May 30 or August 1 and September 30.

Do not mow high-maintenance turf seedings until the stand is at least 6 inches tall. Do not mow closer than 3 inches during the year of establishment.

Low-maintenance stands should be mowed only as needed to control weeds. Mowing should be done before weeds go to seed. Keep mowing height above the height of the seeded plants. Vine and shrub type ground covers may need hand weeding until the area is well covered.

Herbicides may also be used for weed control. Apply all herbicides according to rates specified on the label.

NRCS IL December 1994

urbst880.doc

FILE NAME = V:\2456\2456e008.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/27/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.)
EROSION CONTROL DETAILS

SCALE: N/A | SHEET NO. 4 OF 8 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	52
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NATURAL RESOURCES CONSERVATION SERVICE
ILLINOIS URBAN MANUAL
PRACTICE STANDARD

PERMANENT SEEDING

(acres or sq. ft.)
CODE 880

TABLE A

LOW MAINTENANCE GRASSES AND LEGUMES

Site Suitability			Sun Light Availability			Seed Mixture	Seeding Rates (PLS)	
D	WD	W	FS	PS	S		Lbs./Acre	Lbs./ 1000 ft.²
X	X		X			Smooth bromegrass or Tall fescue plus	24	.55
						Alfalfa or Birdsfoot trefoil	8	.20
X	X		X	X		Smooth bromegrass or Tall fescue plus	24	.55
						Crownvetch	16	.20
X	X	X	X			Tall fescue plus	12	.30
						Timothy or Redtop plus	2.5	.06
						Birdsfoot trefoil	12	.30
X	X	X	X			Switchgrass 1/	8	.20
X	X		X			Switchgrass 1/ plus	2	.04
						Big bluestem plus	6	.14
						Indiangrass	6	.14

1/ Warm season grasses

D = Droughty
WD = Well Drained
W = Wet

FS = Full Sun
PS = Partial Sun
S = Shady

TABLE B

HIGH MAINTENANCE SEED MIXTURES

Site Suitability			Sun Light Availability			Seed Mixture	Seeding Rates (PLS)	
D	WD	W	FS	PS	S		Lbs./Acre	Lbs./ 1000 ft.²
X	X		X	X		Kentucky bluegrass Use at least 3 adapted varieties	88-130	2-3
X	X			X		Kentucky bluegrass plus	110	2.5
						Red fescue	44	1.0
X	X	X	X	X	X	Tall fescue (turf type)	220-260	5-6
X	X			X	X	Red fescue plus	110	2.5
						Kentucky bluegrass	44	1
X	X		X	X		Kentucky bluegrass plus	86	2.0
						Perennial ryegrass	43	1.0

D = Droughty
WD = Well Drained
W = Wet

FS = Full Sun
PS = Partial Sun
S = Shady

SEEDING DATES

SPRING

Northern Illinois	Early Spring to June 1
Central Illinois	Early Spring to May 15
Southern Illinois	Early Spring to May 15

FALL

Northern Illinois	August 1 to September 1
Central Illinois	August 1 to September 10
Southern Illinois	August 1 to September 20

DORMANT

Northern Illinois	November 1 to March 15
Central Illinois	November 15 to March 1
Southern Illinois	November 15 to March 1

TABLE C

GROUND COVERS (Shrubs & Vines)

This table contains a list of ground covers commonly used in Illinois. When selecting species to use, check with a local nursery for availability of plants, growth characteristics and recommended spacings.

Bugle
Wild Ginger
Barberry
Dwarf Quince
Crownvetch
Creeping Cotoneaster 4" - 2' prostrate
Mock Strawberry
Euonymus - several species (Wintercreeper) Evergreen
English Ivy
Daylily
Evergreen Candytuff
Juniper (Creeping)
Pachysandra (Japanese spurge)
Creeping Phlox
Shrubby Cinquefoil (Potentilla)
Dwarf Alpine Current
Stonedrop (Sedum)
Creeping Thyme
Common Periwinkle (Vinca)

FILE NAME = Y:\2456\2456e009.dgn	USER NAME = smountal	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.)
EROSION CONTROL DETAILS

SCALE: N/A | SHEET NO. 5 OF 8 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	53
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NATURAL RESOURCES CONSERVATION SERVICE
ILLINOIS URBAN MANUAL
PRACTICE STANDARD

SILT FENCE

(feet)
CODE 920

DEFINITION

A temporary barrier of entrenched geotextile fabric (filter fabric) stretched across and attached to supporting posts used to intercept sediment-laden runoff from small drainage areas of disturbed soil.

PURPOSE

The purpose of this practice is to cause deposition of transported sediment load from sheet flows leaving disturbed areas.

CONDITIONS WHERE PRACTICE APPLIES

A silt fence many be used subject to the following conditions:

1. The maximum allowable slope lenghts contributing runoff to silt fence are listed in the following table:

Slope (%)	Maximum Spacing (ft.)
25	50
20	75
15	125
10	175
Flatter than 10	200

2. The maximum drainage area for overland flow to a silt fence shall not exceed 1/2 acre plot per 100 feet of fence; and
3. Erosion would occur in the form of sheet erosion; and
4. There is no concentration of water flowing to the barrier; and
5. Where effectivenes is required for more than one construction season or 6 months, whichever is less.
6. As protection for a storm drain inlet refer to practice standard INLET PROTECTION - FABRIC DROP 860.
7. As protection for a culvert inlet refer to practice standard CULVERT INLET PROTECTION 808.

CRITERIA

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.

Silt fence fabric shall meet the requirements in material specification 592 GEOTEXTILE Table 1 or 2, Class I with a minimum apparent opening size (AOS) of 30 for non-woven and 50 for woven.

Fence posts shall be a minimum of 48 inches long. Wood posts shall be of sound quality wood with a minimum cross sectional area of 3.0 square inches. Steel posts shall be standard T and U sections weighing not less than 1.33 pound per linear foot or other steel posts having equivalent strength and bending resistance.

The maximum spacing shall be 5 feet. When wire or other form of approved backing is used, the maximum spacing may be increased to 8 feet. The posts shall be driven a minimum of 18 inches into the ground or as approved by the engineer. Spacing may need to be adjusted so that posts are located in low areas where water may pond.

Wire fence shall be a minimum 12 gauge wire with a maximum 6-inch mesh opening. All other forms of support, such as polymeric mesh, shall be approved by the engineer/inspector.

The filter fabric shall be furnished in a continuous roll cut to the length of the silt fence needed to avoid splices. When splices are necessary, the fabric shall be spliced at a support post with a minimum 6-inch overlap, folded over and securely fastened so that silt-laden water cannot escape through the fence.

The height of a silt fence shall be a minimum of 24 inches above the original ground surface and shall not exceed a height of 30 inches above the ground surface. Wire or another form of approved support mesh backing shall be used on silt fences exceeding 24 inches in height.

The silt fence shall be entrenched to a minimum depth of 6 inches, with an additional 6 inches extending along the bottom of the trench in the upslope direction. When wire or another form of support mesh backing is used, the wire or other approved support mesh shall extend into the trench a minimum of 3 inches. 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 or tie wires (10 gage minimum), or in accordance with manufacturer's recommendations. The fabric shall not be stapled or wired to the wire support or to existing trees.

If the silt fence must cross contours, with the exception of the ends of the fence, gravel check dams placed perpendicular to the back of the fence shall be used to minimize concentrated flow and erosion along the back of the fence. The gravel check dams shall be approximately 1 foot deep at the back of the fence and be continued perpendicular to the fence at the same elevation until the top of the check dam intercepts the ground surface behind the fence. The gravel check dams shall consist of appropriately sized and specified rock for the fence line grade and contributing drainage area. The gravel check dams shall be located every 10 feet along the fence where the fence must cross contours. The fence line grade and slope length in combination shall be stable after the installation of the check dams.

Silt fences shall be used prior to the establishment of erosion controls and installed prior to the clearing of existing vegetation.

CONSIDERATIONS

Silt fences should be considered for trapping sediment where sheet and rill erosion may be expected to occur in small drainage areas. Silt fences should not be placed in areas of concentrated flows.

Research has shown that silt fences can trap a much higher percentage of suspended sediments than can straw bale barriers and in most cases is the preferred option. As with straw bale barriers, improper placement as well as improper installation and maintenance of silt fences have, in many instances, significantly decreased the effectiveness of this practice.

While both woven and non-woven fabrics are commercially available, the woven fabric generally displays higher strength than the non-woven fabrics do. When tested under acid and alkaline water conditions, most of the woven fabrics increase in strength. There are a variety of reactions among non-woven fabrics. The same is true of testing under extensive ultra violet radiation. Permeability rates demonstrate very high filtering efficiencies for sandy sediments, there is considerable variation among both woven and non-woven fabrics when filtering the finer silt and clay particles.

PLANS AND SPECIFICATIONS

Plans and specifications for installing silt fences shall be in keeping with this standard and shall describe the requirements for applying the practice to achieve its intended purpose. At a minimum include the following:

1. Location where the silt fence is to be installed.
2. The type, size, and spacing of fence posts.
3. The type and size of wire or other approved support mesh backing, if used.
4. The type of filter fabric used.
5. The method of anchoring the filter fabric.
6. The method of fastening the filter fabric to the fencing support.
7. The rock size and location of gravel check dams, if used.

All plans shall include the installation, inspection, and maintenance schedules with the responsible party identified.

Standard Drawing IL-620 SILT FENCE PLAN or IL-620W SILT FENCE WITH WIRE SUPPORT PLAN can be used as the plan sheets.

OPERATION AND MAINTENANCE

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 silt fence.

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.

REFERENCES

North Carolina Sedimentation Control Commission, 1988. Erosion and Sediment Control Planning and Design Manual, NC

Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation, 1992. Virginia Erosion and Sediment Control Handbook, 3rd ed., VA

Washington State Department of Ecology, 2000. Stormwater Management Manual for Western Washington, WA

NRCS IL October 2001

urbst920.doc

FILE NAME = V:\2456\2456e010.dgn	USER NAME = smountel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C.H. 49 (EXCHANGE ST.) EROSION CONTROL DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					1638	05-00086-14-FP	WILL	124	54
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -							CONTRACT NO. 63672		
	PLOT DATE = 8/15/2013	DATE -	REVISED -		SCALE: N/A	SHEET NO. 6 OF 8 SHEETS	STA. N/A TO STA. N/A	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NATURAL RESOURCES CONSERVATION SERVICE
ILLINOIS URBAN MANUAL
PRACTICE STANDARD

TEMPORARY SEEDING

(acres or square feet)
CODE 965

DEFINITION

Planting rapid-growing annual grasses or small grains, to provide initial, temporary cover for erosion control on disturbed areas.

PURPOSE

The purpose of this practice is to temporarily stabilize denuded areas that will not be brought to final grade or on which construction will be stopped for a period of more than 14 working days.

Temporary seeding helps reduce runoff and erosion until permanent vegetation or other erosion control measures can be established. In addition, it provides residue for soil protection during seedbed preparation and reduces problems of mud and dust production from bare soil surfaces during construction.

CONDITIONS WHERE PRACTICE APPLIES

This practice applies to all cleared, unvegetated, or sparsely vegetated soil surfaces where vegetative cover is needed for less than 1 year. Applications of this practice include diversions, dams, temporary sediment basins, temporary road banks, topsoil stockpiles and any other exposed areas of a construction site.

CRITERIA

Plant selection - Select plants appropriate to the season and site conditions from Table 1.

Site preparation - Prior to seeding, install necessary erosion control and sediment control practices if possible.

Remove large rocks or other debris that may interfere with seedbed preparation or seeding operations.

Seedbed preparation:

1. Liming: Where the pH of the soil is below 5.5, apply one and one half to two tons per acre of finely ground agricultural limestone. If the seeding period is less than 30 days liming will not be required.
2. Fertilizer: Apply 500 pounds per acre of 10-10-10 fertilizer or equivalent. Incorporate lime and fertilizer into the top 2 - 4 inches of soil. If the seeding period is less than 30 days fertilizer will not be required.
3. Prepare a seedbed of loose soil to a depth of 3 to 4 inches. If recent tillage or grading operations have resulted in a loose surface, additional tillage or roughening may not be required except to break up large clods. If rainfall caused the surface to become sealed or crusted, loosen it just prior to seeding by disking, raking, harrowing, or other suitable methods. Grove or furrow slopes steeper than 3:1 on the contour before seeding.

Seeding - Seed shall be evenly applied with a cyclone seeder, drill, cultipacker seeder or hydroseeder. Small grains shall be planted no more than one inch deep. Grasses shall be planted no more than one half inch deep.

Cover broadcast seedings by cultipacking, dragging a harrow, or raking.

Mulching - Seedings made during optimum spring and summer seeding dates, with favorable soil and site conditions, will not require mulch.

When temporary protection is needed see practice standard 875, MULCHING.

CONSIDERATIONS

Temporary seedings should be used to protect earthen structures such as dikes, diversions, dams and other structures used for sediment control during construction. Temporary seedings can also reduce the amount of maintenance these structures may need. For example, the frequency of sediment basin clean-outs will be reduced if watershed areas, outside the active construction zone, are stabilized.

Proper seedbed preparation, selection of appropriate species, and use of quality seed are as important in this practice as in practice standard 880, PERMANENT SEEDING. Failure to follow established guidelines and recommendations carefully might result in an inadequate or short-lived stand of vegetation that will not control erosion.

Temporary seeding provides protection for no more than 1 year, during which time permanent stabilization should be initiated.

PLANS AND SPECIFICATIONS

Plans for temporary seeding shall include plant species to be used, dates of seeding, seedbed preparation, fertilization and seeding rates and methods.

OPERATION AND MAINTENANCE

Reseed areas where seeding emergence is poor, or where erosion occurs, as soon as possible. Protect from vehicular and foot traffic. Control weeds by mowing.

NRCS IL December 1994

urbst965.doc

TABLE 1
TEMPORARY SEEDING SPECIES, RATES AND DATES

Species	Lbs./Acre	Lbs./1000 ft.^{2}	Seeding Dates
Oats	90	2	Early spring - July 1
Cereal Rye	90	2	Early spring - Sept. 30
Wheat	90	2	Early spring - Sept. 30
Perennial Ryegrass	25	6	Early spring - Sept. 30

FILE NAME = V:\2456\2456e811.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

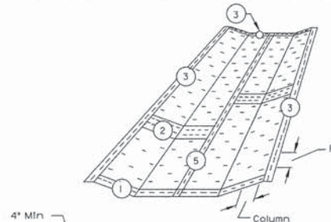
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

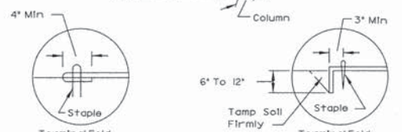
C.H. 49 (EXCHANGE ST.)
EROSION CONTROL DETAILS

SCALE: N/A | SHEET NO. 7 OF 8 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	55
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EROSION BLANKET PLAN





DETAIL 1

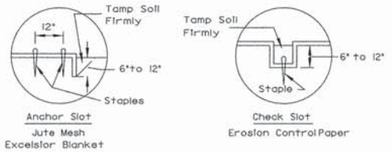
DETAIL 2

REFERENCE
Project
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ILLINOIS

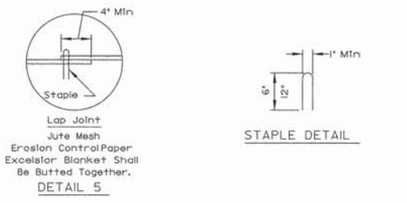
STANDARD DWG. NO.
IL-530
SHEET 1 OF 2
DATE 5-24-94

EROSION BLANKET PLAN



DETAIL 3

DETAIL 4



DETAIL 5

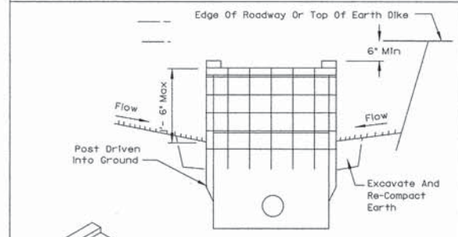
NOTES:
1. On erosion control paper, check slots, in ditch channel shall be spaced so that one occurs within each 50' on slopes of more than 4% and less than 6%. Slopes of 6% or more, shall be spaced so that one occurs within each 25'.
2. Staples to be placed alternately, in columns approximately 2' apart and in rows approximately 3' apart. Approximately 175 staples are required per 4'x 225' roll of material and 125 staples are required per 4'x 150' roll of material.
3. Erosion control material shall be placed loosely over ground surface. Do not stretch.
4. All terminal ends and transverse laps shall be stapled at approximately 12" intervals.

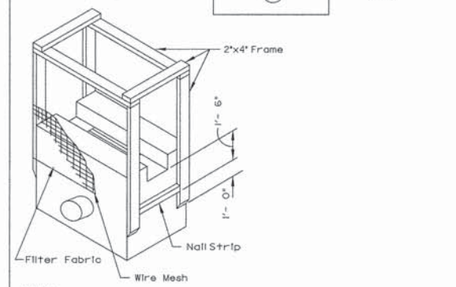
REFERENCE
Project
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ILLINOIS

STANDARD DWG. NO.
IL-530
SHEET 2 OF 2
DATE 3-1-95

INLET PROTECION - FABRIC DROP PLAN





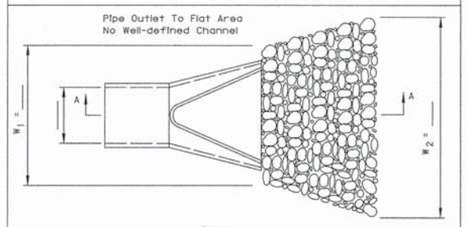
NOTES:
1. Filter fabric shall meet the requirement of material specification 592 GEOTEXTILE table 1 or 2, class , with an EOS of at least 30 for nonwoven and 50 for woven.
2. The wire mesh shall have a maximum opening of at least 6 inches.
3. Limit drainage area to the inlet protection to 1 acre.

REFERENCE
Project
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

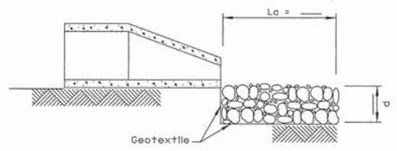
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ILLINOIS

STANDARD DWG. NO.
IL-560
SHEET 1 OF 1
DATE 6-29-93

PIPE OUTLET TO FLAT AREA



PLAN



SECTION A-A

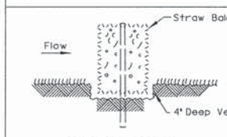
NOTES:
1. The filter fabric shall meet the requirements in material specifications 592 GEOTEXTILE Table 1 or 2, class , or II , III
2. The rock riprap shall shall meet the IDOT requirements for the following gradation: RR ——, Quality ——
3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.

REFERENCE
Project
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

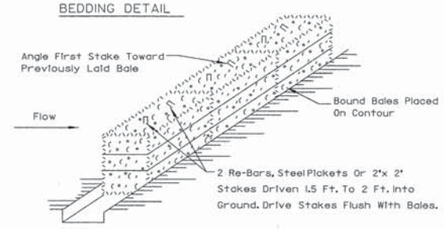
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ILLINOIS

STANDARD DWG. NO.
IL-610
SHEET 1 OF 1
DATE 9-15-93

STRAW BALE BARRIER PLAN



BEDDING DETAIL



ANCHORING DETAIL

NOTES
1. Bales shall be placed at the top of slope or on the contour and in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a minimum of 4", and placed so that bindings are horizontal.
3. Bales shall be securely anchored in place by either two stakes or re-bars driven through the bale. The first stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
4. Inspection shall be frequent and repair replacement shall be made promptly as needed.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

REFERENCE
Project
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
ILLINOIS

STANDARD DWG. NO.
IL-635
SHEET 1 OF 1
DATE 8-18-94

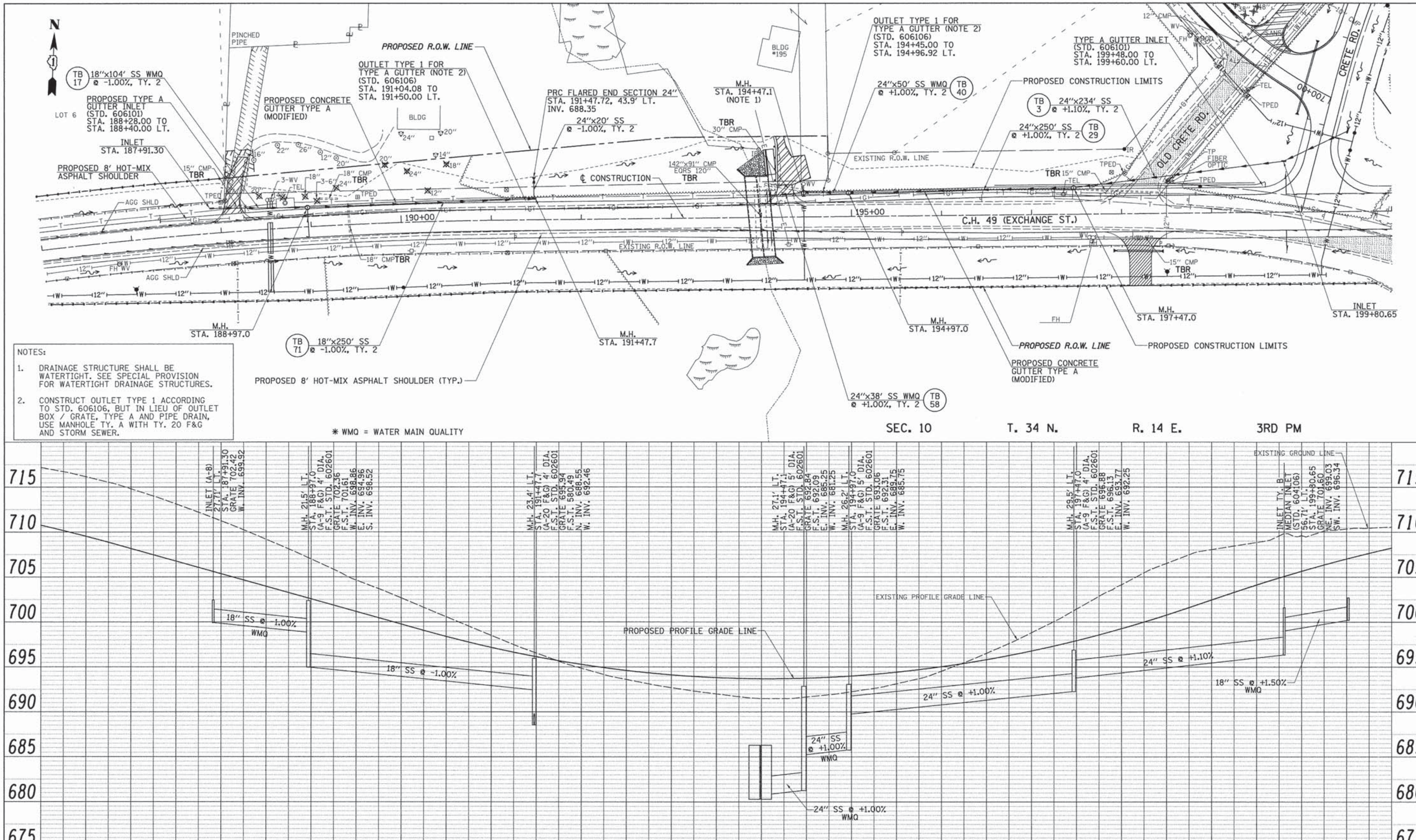
FILE NAME = V:\2456\2456e012.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.)
EROSION CONTROL DETAILS

SCALE: N/A | SHEET NO. 8 OF 8 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	56
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

1. DRAINAGE STRUCTURE SHALL BE WATERTIGHT. SEE SPECIAL PROVISION FOR WATERTIGHT DRAINAGE STRUCTURES.

2. CONSTRUCT OUTLET TYPE 1 ACCORDING TO STD. 606106, BUT IN LIEU OF OUTLET BOX / GRATE, TYPE A AND PIPE DRAIN, USE MANHOLE TY. A WITH TY. 20 F&G AND STORM SEWER.

STA.	186+00	186+50	187+00	187+50	188+00	188+50	189+00	189+50	190+00	190+50	191+00	191+50	192+00	192+50	193+00	193+50
EX. PROF.	717.18	716.15	714.81	713.12	711.25	709.19	707.00	704.65	702.67	700.57	698.51	696.54	694.86	693.60	692.69	692.00
PR. PROF.	710.75	709.52	708.16	706.76	705.36	703.96	702.56	701.16	699.76	698.38	697.16	696.13	695.27	694.60	694.11	693.81

STA.	194+00	194+50	195+00	195+50	196+00	196+50	197+00	197+50	198+00	198+50	199+00	199+50	200+00	200+50	201+00
EX. PROF.	691.47	691.65	692.24	693.12	694.53	696.52	698.81	701.43	704.14	706.51	708.05	708.84	709.62	710.35	710.56
PR. PROF.	693.68	693.74	693.98	694.41	695.01	695.80	696.77	697.93	699.26	700.78	702.46	704.12	705.64	707.01	708.22

FILE NAME = V:\2456\2456d001.dgn	USER NAME = smounts1	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

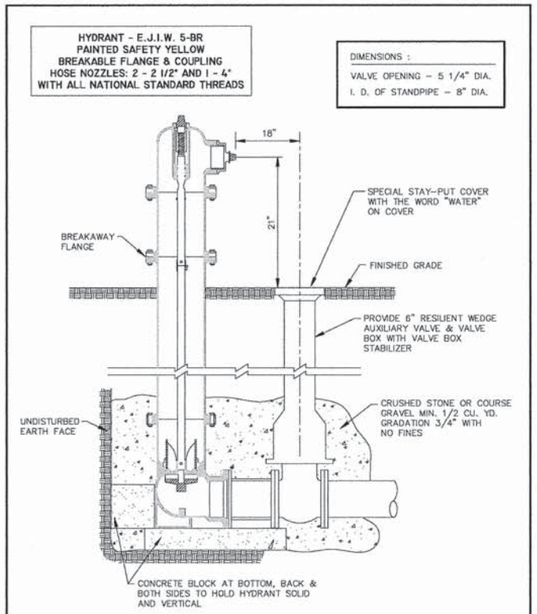
C.H. 49 (EXCHANGE ST.) DRAINAGE PLAN & PROFILE

SCALE: H=50 V=5 | SHEET NO. 1 OF 1 SHEETS | STA. 186+00 TO STA. 201+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	57

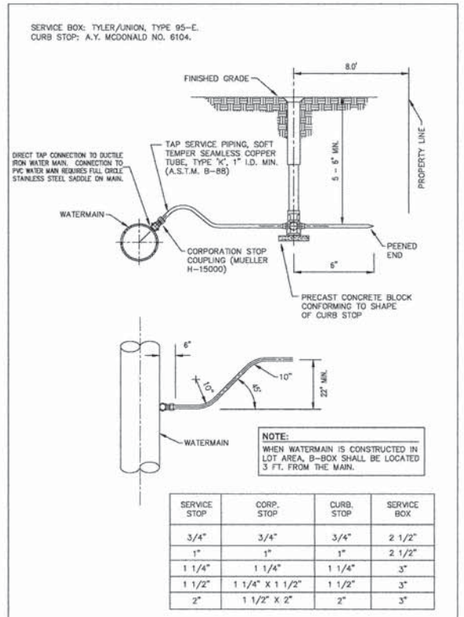
CONTRACT NO. 63672

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



VILLAGE OF CRETE
HYDRANT INSTALLATION

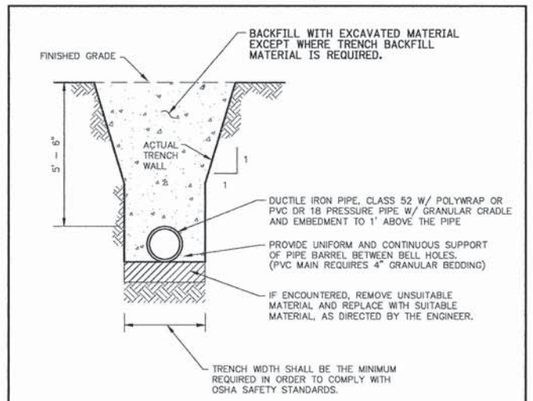
FEBRUARY 2009



SERVICE STOP	CORP. STOP	CURB. STOP	SERVICE BOX
3/4"	3/4"	3/4"	2 1/2"
1"	1"	1"	2 1/2"
1 1/4"	1 1/4"	1 1/4"	3"
1 1/2"	1 1/4" X 1 1/2"	1 1/2"	3"
2"	1 1/2" X 2"	2"	3"

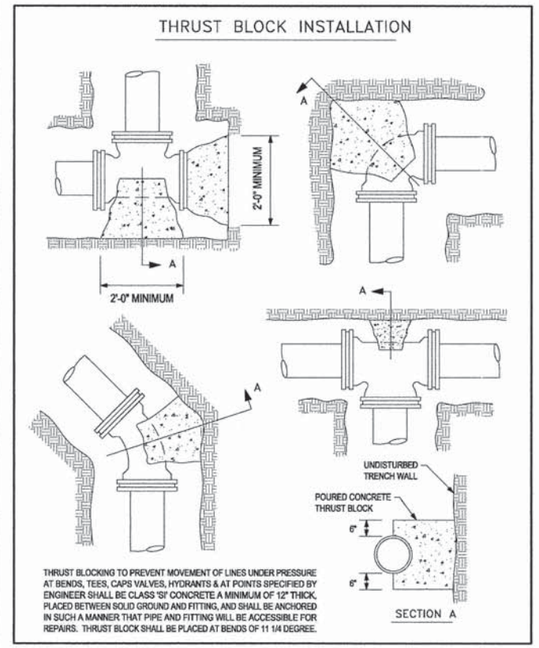
VILLAGE OF CRETE
WATER SERVICE DETAIL

FEBRUARY 2009

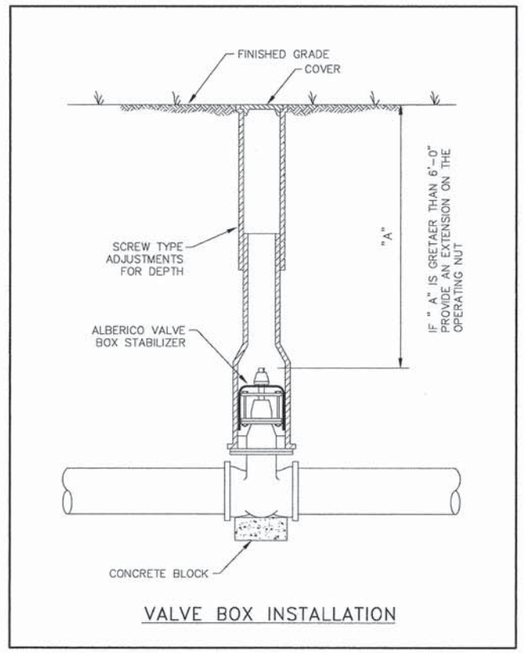


VILLAGE OF CRETE
TRENCH SECTION (WATERMAIN)

FEBRUARY 2009



NOTE: COST OF THRUST BLOCKS TO BE INCLUDED IN THE COST OF WATER MAIN.



VALVE BOX INSTALLATION

WATER MAIN REMOVAL

1. THIS WORK SHALL CONSIST OF REMOVAL AND DISPOSAL OF ABANDONED WATER MAIN PIPE OF ALL DIAMETER INCLUDING ALL FITTINGS AND APPURTENANCES.
2. EXCAVATION OF TRENCHES SHALL BE PREFORMED ACCORING TO APPLICABLE REQUIREMENTS OF ARTICLE 550.04. BACKFILL OF TRENCHES SHALL BE PREFORMED ACCORDING TO THE APPLICABLE REQUIREMENTS OF ARTICLE 550.07.
3. ALL MATERIAL SHALL BE DISPOSED OF ACCORDING TO ARTICLE 202.03.
4. THIS WORK WILL BE MEASURED FOR PAYMENT IN FEET. THE LENGTH MEASURED WILL INCLUDE STOPS FITTINGS AND VALVES.
5. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR WATER MAIN REMOVAL.

FIRE HYDRANT NOTES:

FIRE HYDRANT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH WHICH INCLUDES ALL FITTINGS, VALVES, THRUST BLOCKS, PIPE TO CONNECT TO THE WATER MAIN EXCAVATING AND BACKFILLING.

WATER MAINS

1. ALL WATER MAIN CONSTRUCTION SHALL CONFORM TO THE ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" IN ITS LATEST EDITION.
2. DUCTILE IRON WATER SHALL BE CLASS 52 DUCTILE IRON PIPE CONFORMING TO AWWA C-151 WITH PUSH-ON JOINTS AND FLEXIBLE ELASTOMERIC GASKETS CONFORMING TO AWWA C-111. DUCTILE IRON WATER MAIN SHALL BE ENCASED IN POLYETHYLENE WRAP CONFORMING TO AWWA C105.
3. ALL WATER MAINS ARE TO BE INSTALLED WITH AT LEAST 5'-6" COVER.
4. THE WATER MAIN IS TO BE HYDROSTATICALLY TESTED FOR A PERIOD OF 2 HOURS AT 150 PSI AND CONFORM TO THE REQUIREMENTS OF SECTION 41-2.14 OF THE STANDARD SPECIFICATIONS.
5. ALL WATER MAIN PARTS, MATERIALS, AND CASTINGS SHALL BE MANUFACTURED IN THE UNITED STATES.
6. ALL VALVES INCLUDING HYDRANT VALVES SHALL BE RESILIENT WEDGE TYPE AND SHALL INCLUDE VALVE BOX & VALVE BOX STABILIZER. ALL BOLTS ARE TO BE STAINLESS STEEL.
7. ALL WATER VALVE BOXES SHALL BE EQUIPPED WITH AN ALBERICO VALVE BOX STABILIZER OR APPROVED EQUAL.
8. ALL WATER VALVES, HYDRANTS AND FITTINGS MUST BE INSPECTED BY THE VILLAGE OF CRETE PRIOR TO BACKFILLING.
9. ALL HYDRANTS SHALL BE VILLAGE OF CRETE STANDARD, EAST JORDAN 5 BR.
10. ALL MECHANICAL JOINTS ON THE WATER MAIN SHALL HAVE MEGA-LUG MECHANICAL JOINT RESTRAINTS (SERIES 2000 FOR P.V.C. MAIN AND SERIES 1100 FOR DUCTILE IRON MAIN) WITH STAINLESS STEEL BOLTS AND DURATRON SAC-NUT MODULES OR EQUAL ON EVERY OTHER BOLT.
11. ALL EXISTING WATER SERVICES SHALL BE LOCATED AND CONNECTED TO THE NEW WATER MAIN AFTER IT HAS BEEN PRESSURE TESTED, CHLORINATED AND APPROVED FOR SERVICE BY THE I.E.P.A.. THE SERVICES SHALL BE 1" TYPE 'K' COPPER.
12. EXISTING FIRE HYDRANTS TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE VILLAGE OF CRETE. THE CONTRACTOR SHALL REMOVE THEM AND MAKE THEM AVAILABLE TO THE VILLAGE FOR PICK UP.
13. EXISTING WATER MAIN TO BE REMOVED SHALL INCLUDE ALL FITTINGS. ONCE REMOVED IT SHALL BE CONTRACTORS RESPONSIBILITY TO PROPERLY DISPOSE OF OFFSITE.
14. HORIZONTAL SEPARATION – WATER MAINS AND SEWERS
    1. WATER MAINS SHALL BE LOCATED AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.
    2. WATER MAINS MAY BE LOCATED CLOSER THAN 10' TO A SEWER LINE WHEN:
        A. LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF 10' AND
        B. THE WATER MAIN INVERT IS AT LEAST 18" ABOVE THE CROWN OF THE SEWER; AND
        C. THE WATER MAIN IS IN A SEPARATE TRENCH ON UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.
    3. WHEN IT IS IMPOSSIBLE TO MEET (1) OR (2) ABOVE, BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRE-STRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.
15. TEMPORARY 1" TYPE K COPPER SAMPLING WHIPS INSTALLATION IS TO BE INCLUDED AS PART OF WATER MAIN INSTALLATION.

VERTICAL SEPARATION – WATER MAINS AND SEWERS

1. A WATER MAIN SHALL BE SEPARATED FROM A SEWER SO THAT THE INVERT IS A MAXIMUM OF 18" ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN 10' HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.
2. BOTH THE WATERMAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN:
    A. IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (1) ABOVE; OR
    B. THE WATER MAIN PASSES UNDER A SEWER OR DRAIN
3. A VERTICAL SEPARATION OF 18" BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER AND DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATER MAIN, AS SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER.
4. CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST 10'.

FILE NAME = v:\2456\watermain plans & details\2456_WM_g001.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

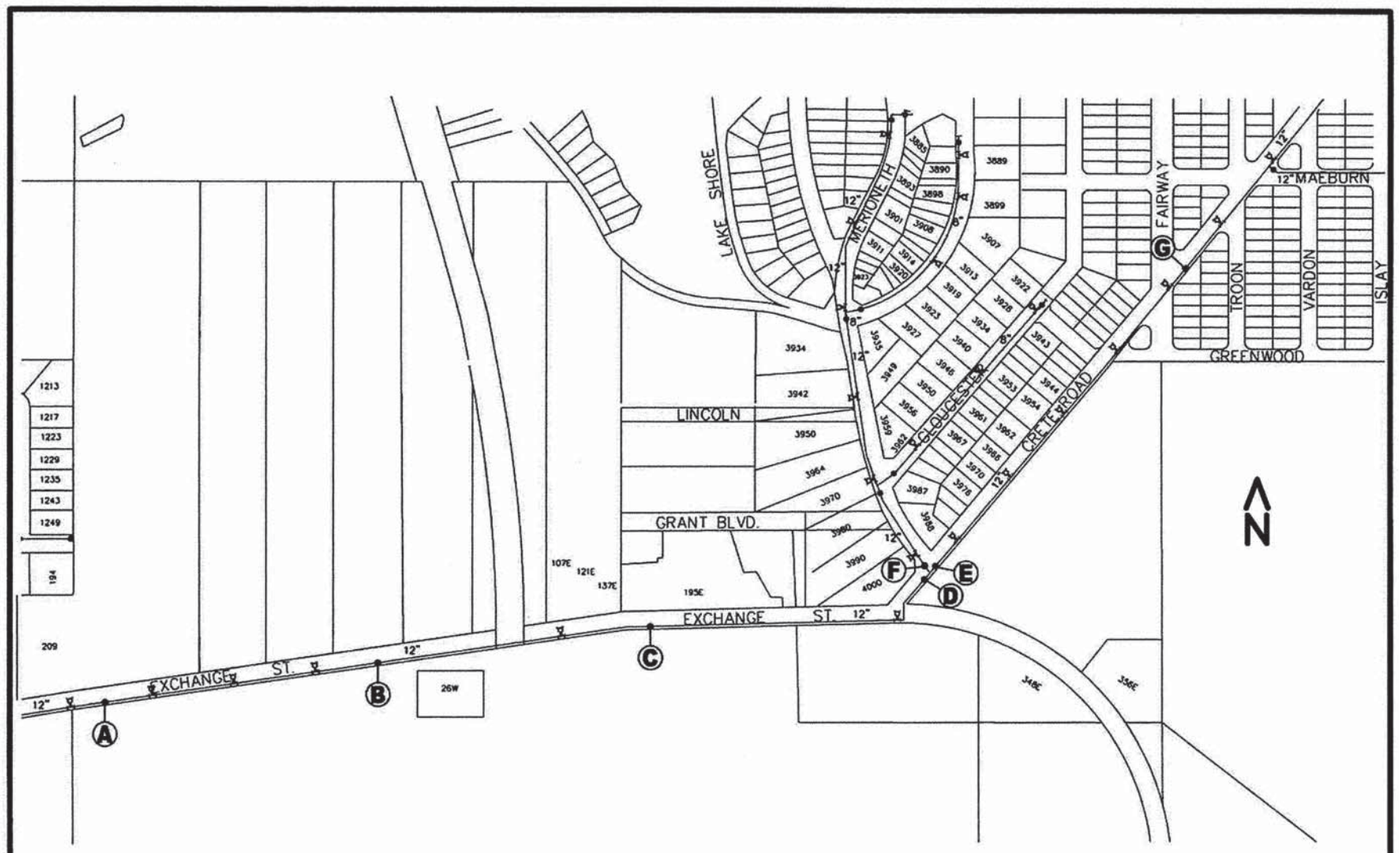
C.H. 49 (EXCHANGE ST.) WATER MAIN NOTES & DETAILS

SCALE: N/A | SHEET NO. 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	58
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

WATER MAIN CONSTRUCTION SEQUENCING NOTES

1. Construct 12" water main from Station 177+50 to Station 200+00 and plug both ends.
2. After closure of Exchange construct the water main along Crete Road cross Exchange with an open cut to Station 505+80 without final connection to existing main.
3. Close Valve D, E and F and connect to Valve 'F' on Merrioneth.
4. Close Valve 'A' and connect to existing main at Station 177+50. New water main can now be flushed, pressure tested and chlorinated.
5. Once new main is in service all the service connections can be transferred to the new main.
6. After all services are transferred existing water main can be removed between Stations 177+50 and 200+00.
7. Close Valve 'G' and new valve at Station 505+40± and make final connection to existing main. Then open new valve at 505+40.
8. The remainder of existing water main can now be removed.
9. It should be noted that this water main is an important element of the Villages water distribution system and should not be removed from service any longer than necessary. The Contractor shall coordinate all work with the Resident Engineer and the Village of Crete.



CONSTRUCTION SEQUENCE MAP

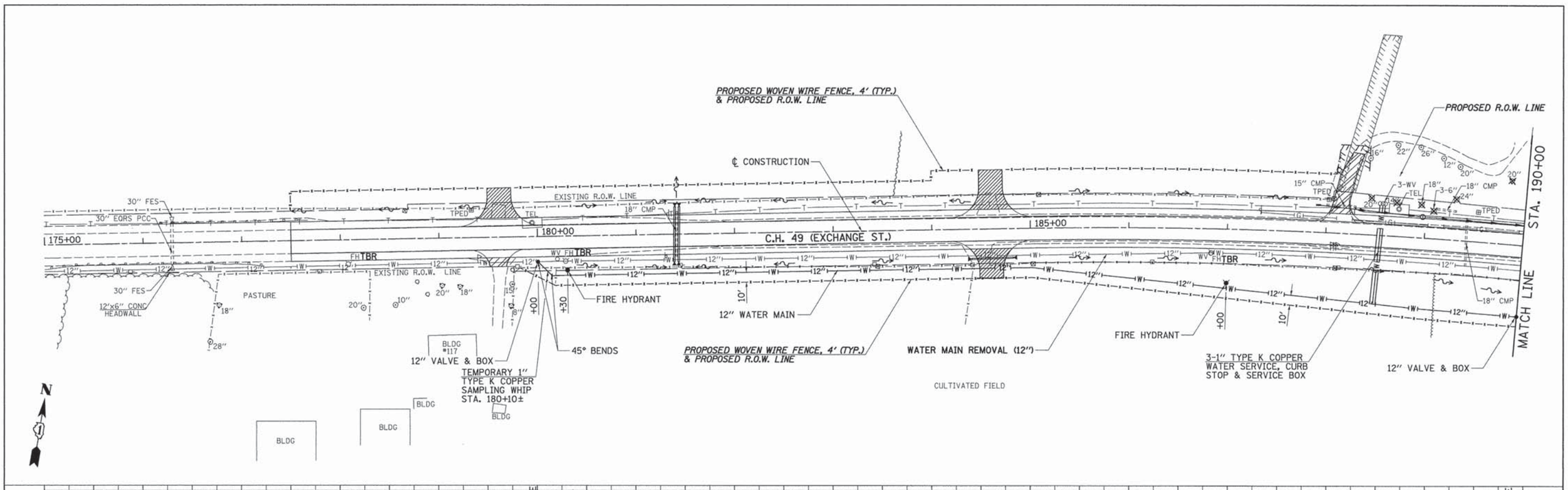
FILE NAME = v:\2456\watermain plans & details\2456_WM_F001.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.) WATER MAIN CONSTRUCTION SEQUENCE

SCALE: N/A | SHEET NO. 1 OF 1 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	59
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



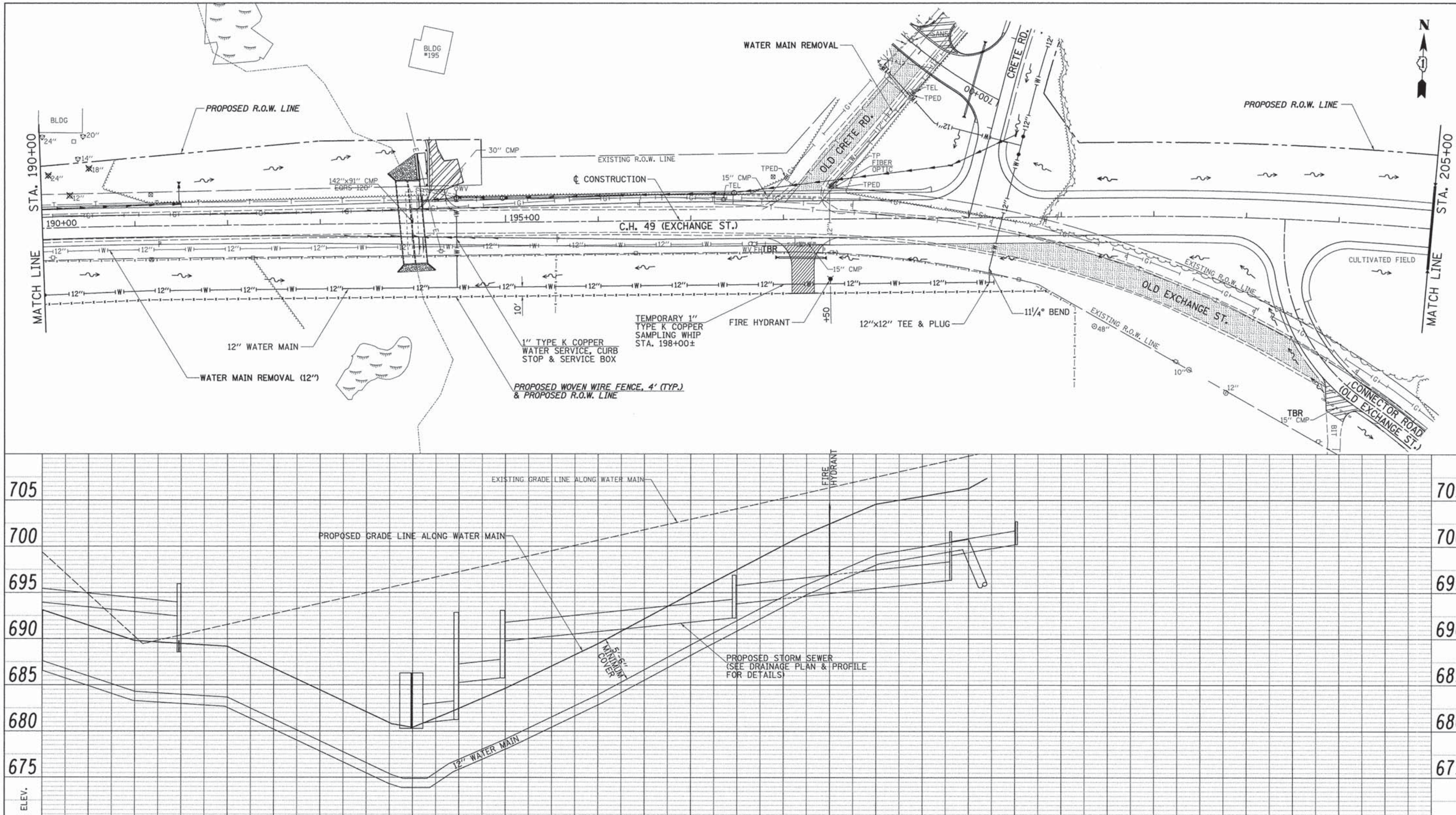
FILE NAME = v:\2456\watermain plans & details\2456_WM_p001.dgn	USER NAME = smounts1	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.) WATER MAIN PLAN & PROFILE

SCALE: H=50 V=5 | SHEET NO. 1 OF 4 SHEETS | STA. 175+00 TO STA. 190+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	60
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Station	TOP OF WM ELEV.	EX. PROF.	PR. PROF.
190+00	687.62	699.38	693.12
	685.95	694.81	691.45
191+00	684.29	690.24	689.79
	683.97	690.40	689.47
192+00	683.66	691.54	689.16
	681.31	692.68	686.81
193+00	678.95	693.82	684.45
	676.59	694.95	682.09
194+00	674.90	696.09	680.40
	676.96	697.23	682.46
195+00	679.13	698.37	684.63
	681.54	699.51	687.04
196+00	683.95	700.65	689.45
	686.64	701.79	692.14
197+00	689.34	702.93	694.84
	691.96	704.07	697.46
198+00	694.58	705.21	700.08
	696.92	706.35	702.42
199+00	699.06	707.49	704.56
	699.92	708.63	705.41
200+00	700.78	709.77	706.26

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHECKED / NOTE BOOK NO. / BY / DATE

FILE NAME = v:\2456\watermain plans & details\2456_WMp002.dgn	USER NAME = smountal	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

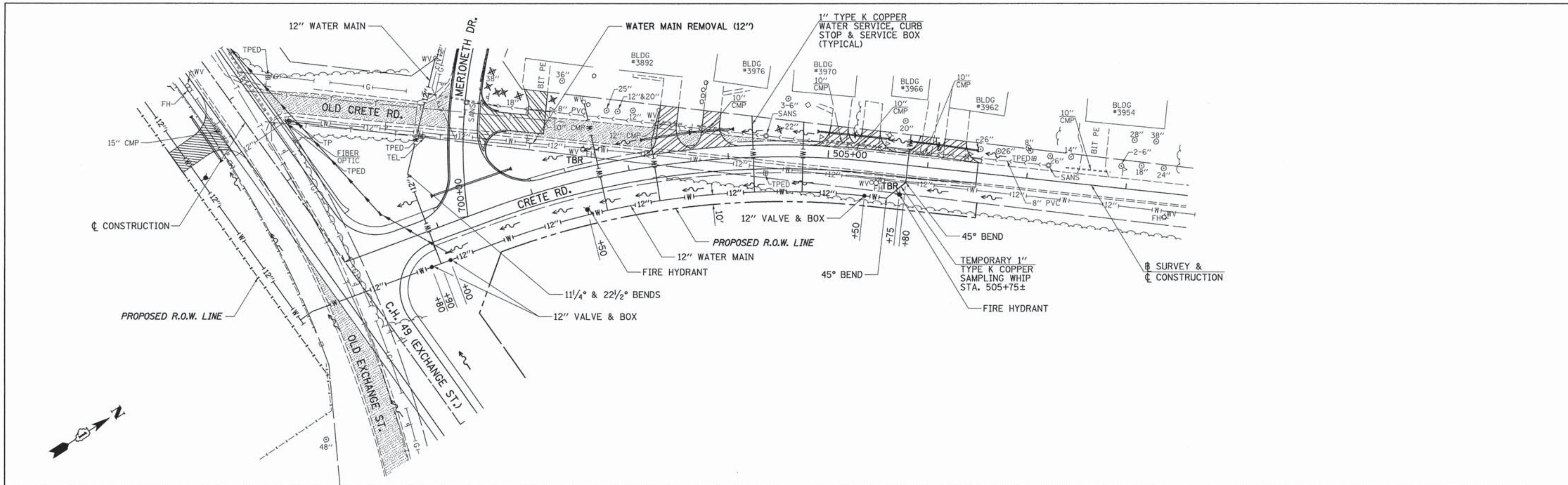
C.H. 49 (EXCHANGE ST.) WATER MAIN PLAN & PROFILE

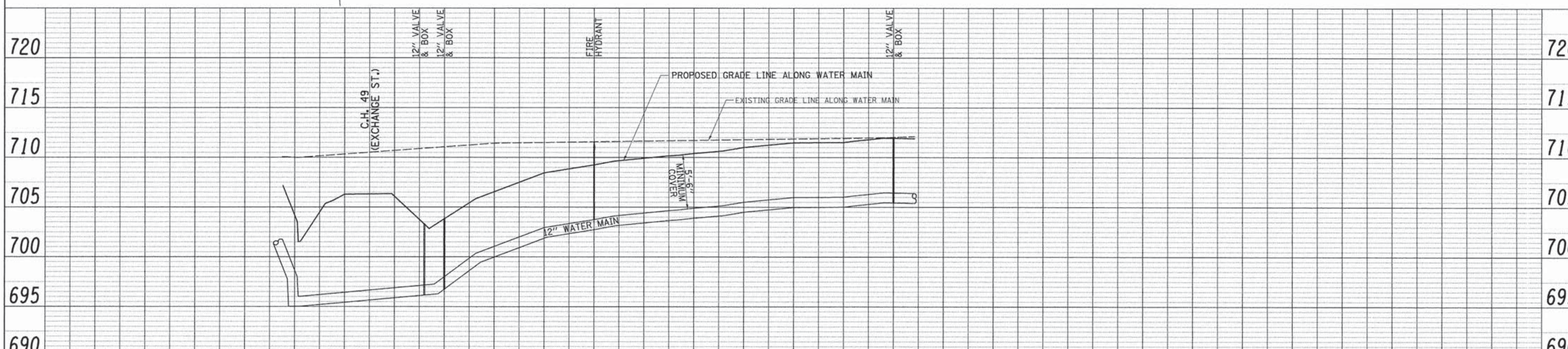
SCALE: H=50 V=5 | SHEET NO. 2 OF 4 SHEETS | STA. 190+00 TO STA. 205+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	61

CONTRACT NO. 63672

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT





TOP OF WM ELEV.	698.66	696.43	696.88	697.99	701.05	702.94	703.74	704.41	704.89	705.50	705.97	706.01	706.43
EX. PROF.	709.99	710.33	710.69	711.06	711.42	711.50	711.57	711.64	711.71	711.79	711.86	711.93	712.03
PR. PROF.	704.16	706.28	706.08	703.81	706.55	708.44	709.24	709.91	710.39	711.00	711.47	711.51	711.93

500+00 501+00 502+00 503+00 504+00 505+00

PLAN	NOTE BOOK NO. ___	SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. CHECKED / CADD FILE NAME	BY / DATE
PROFILE	NOTE BOOK NO. ___	SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD	BY / DATE

FILE NAME = v:\2456\watermain plans & details\2456_WM_p003.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
	PLOT SCALE = 50.000 ' / in.	DRAWN -	REVISED -
	PLOT DATE = 8/15/2013	CHECKED -	REVISED -
		DATE -	REVISED -

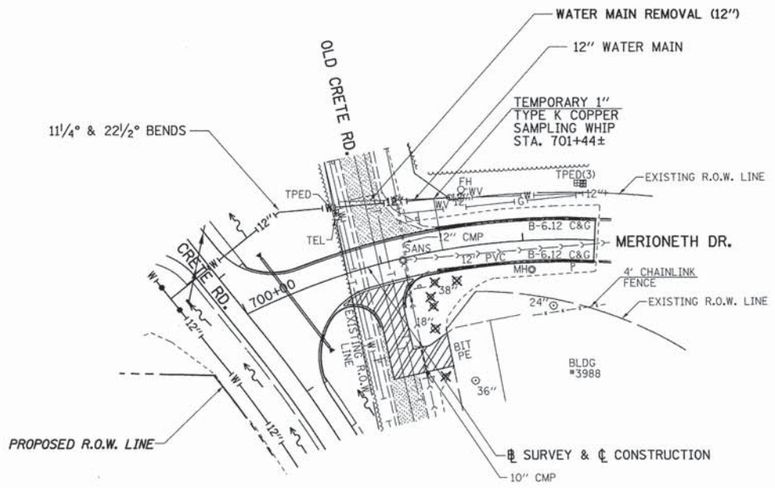
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CRETE RD. WATER MAIN PLAN & PROFILE

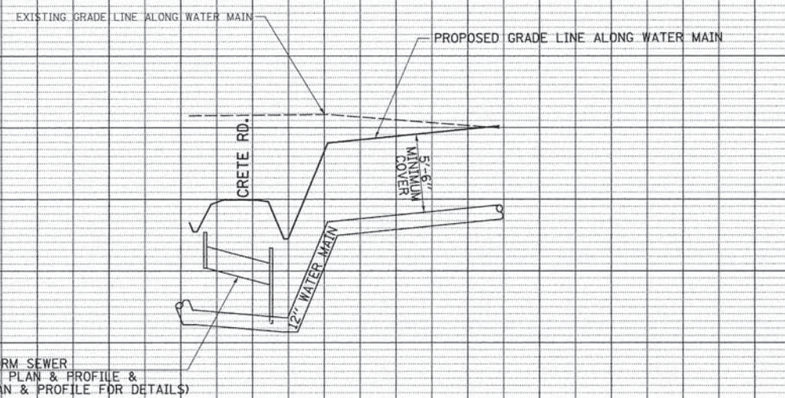
SCALE: H=50 V=5 | SHEET NO. 3 OF 4 SHEETS | STA. 500+00 TO STA. 508+62

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	62
		CONTRACT NO. 63672		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



N



	720	715	710	705	700	695	690
TOP OF WM ELEV.					696.92	702.88	703.89	704.38
EX. PROF.					704.94	708.38	709.39	709.88
					710.87	710.91	710.54	710.14

700+00 701+00

PLAN: SURVEYED — PLOTTED — ALIGNMENT CHECKED — CADD FILE NAME — NOTE BOOK — NO.____ — BY — DATE

PROFILE: SURVEYED — PLOTTED — GRADES CHECKED — ALIGNMENT CHECKED — STRUCTURE NO(S)/RNS CHKD — NOTE BOOK — NO.____ — BY — DATE

FILE NAME = v:\2456\watermain plans & details\2456_WM_p004.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MERIONETH DR. WATER MAIN PLAN & PROFILE

SCALE: H=50 V=5 | SHEET NO. 4 OF 4 SHEETS | STA. 700+00 | TO STA. 802+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	63
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PART OF THE E 1/2 OF THE SE 1/4 OF SEC 9, T 34 N, R 14 E OF THE 3RD P.M., WILL COUNTY, ILLINOIS

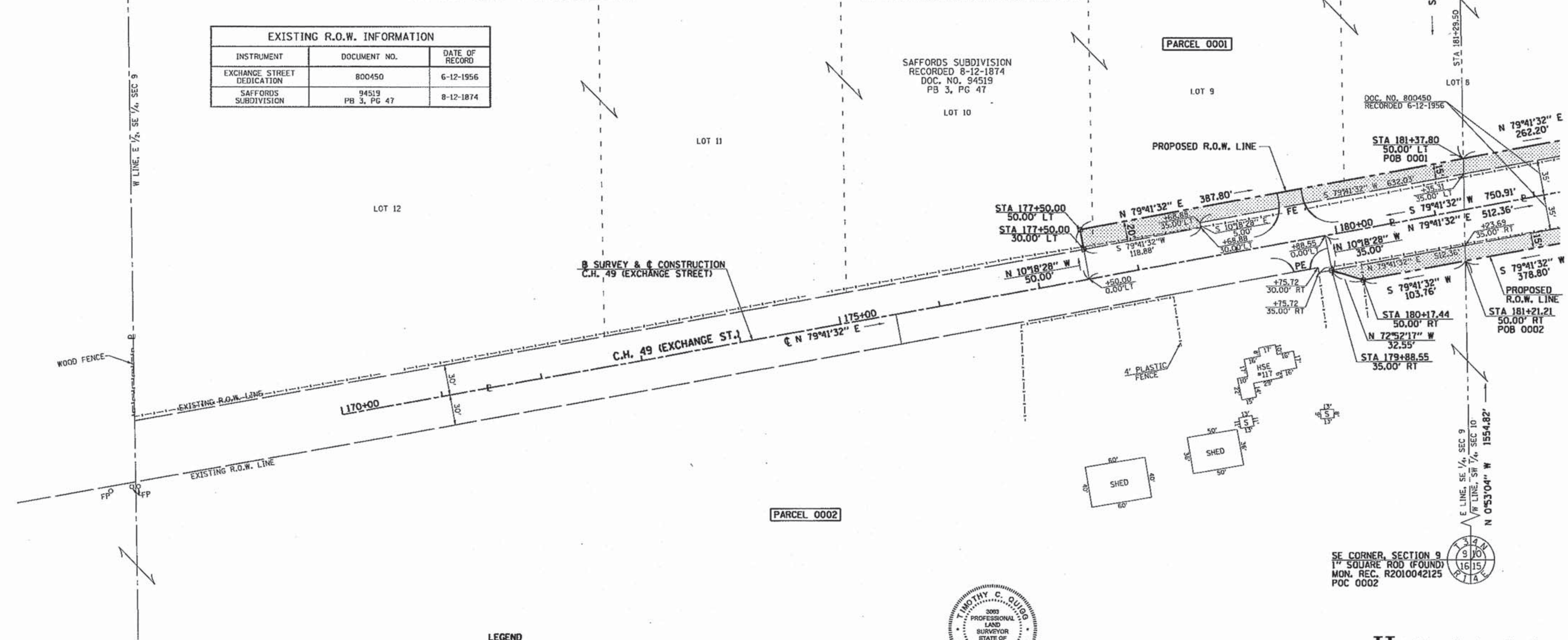
PARCEL	OWNER	PERMANENT TAX NUMBER	TOTAL HOLDING	AREA TAKEN	PREVIOUSLY DEDICATED	*REMAINDER	TEMPORARY EASEMENT	EASEMENT PURPOSE	ACQUIRED BY
			ACRES	ACRES	ACRES	ACRES	ACRES		
0001	WEHLAN TRIEBOLD, et al	15-09-403-004	113.940	1.307	0.834	112.633	——	N/A	
0002	WEHLAN TRIEBOLD, et al	15-09-404-009 15-10-305-008	171.150	3.525	1.908	167.625	——	N/A	

FOR TOTAL HOLDING PLATS, SEE SHEET NO. 11

* "REMAINDER" REFERS TO THE REMAINDER OF THE PARCEL NOT USED/DEDICATED FOR HIGHWAY PURPOSES

EXISTING R.O.W. INFORMATION

INSTRUMENT	DOCUMENT NO.	DATE OF RECORD
EXCHANGE STREET DEDICATION	800450	6-12-1956
SAFFORDS SUBDIVISION	94519 PB 3, PG 47	8-12-1874



LEGEND

SECTION LINE	
QUARTER SECTION LINE	
QUARTER, QUARTER SECTION LINE	
PLATTED LOT LINE	
PROPERTY (DEED) LINE	
CENTER LINE	
EXISTING RIGHT OF WAY LINE	
PROPOSED RIGHT OF WAY LINE	
PROPOSED PERMANENT EASEMENT LINE	
PROPOSED TEMPORARY EASEMENT LINE	
•	IRON PIPE, IRON ROD OR PK NAIL FOUND
o	5/8 INCH REBAR SET
129.32'	MEASURED DIMENSION
129.32' (COMP)	COMPUTED DIMENSION
(129.32')	RECORD DATA
	EXISTING BUILDING
	NET ROW REQUIRED
	SECTION CORNER
	QUARTER SECTION CORNER

- • T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- • BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT-OF-WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT-OF-WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- □ RIGHT-OF-WAY STAKING PROPOSED (TO BE SET)

TIMOTHY C. QUIGG 3063 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JACKSONVILLE, IL

EXPIRES: 11/30/2014

NOTES:

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (97 ADJ) - EAST ZONE

DISTANCES ARE IN GRID ENGLISH. TO CONVERT GRID TO GROUND, DIVIDE BY CONVERSION FACTOR CONVERSION FACTOR = 0.99999153

STATE OF ILLINOIS)
) S.S.
COUNTY OF MORGAN)

I, TIMOTHY C. QUIGG, DO HEREBY CERTIFY: THAT I AM AN ILLINOIS PROFESSIONAL LAND SURVEYOR, THAT THE SURVEY OF THIS PLAT OF HIGHWAYS WAS MADE UNDER MY DIRECTION IN SECTION 9, TOWNSHIP 34 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED AT JACKSONVILLE, ILLINOIS THIS THE 5th DAY OF JUNE 2013 A.D.

Timothy C. Quigg
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3063
TIMOTHY C. QUIGG

Hutchison Engineering, Inc.
1801 West Lafayette
PO Box 820
Jacksonville, Illinois 62651
PHONE : (217)245-7164 FAX (217)243-0468
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000825

WILL COUNTY HIGHWAY DEPT.
PLAT OF HIGHWAYS

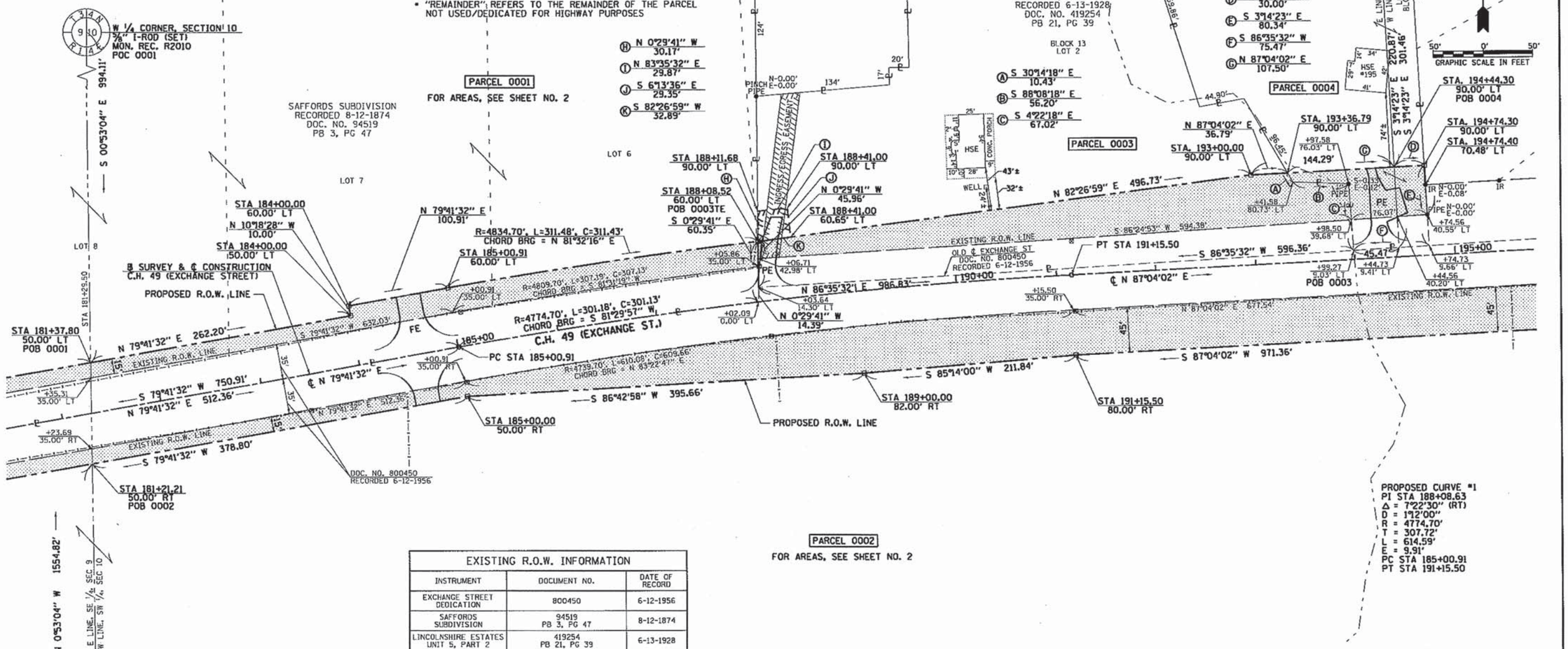
ROUTE C.H. 49 (EXCHANGE ST) (F.A.U. RTE. 1638)
SECTION 05-00086-14-FP
COUNTY WILL
JOB# R-55-001-97 PROJECT#
SEC 9, T 34 N, R 14 E OF 3RD P.M.
STA 170+00.00 TO STA 181+29.50
DRAWN CHECKED
SCALE: 1"=50' SHEET NO. 2 OF 14
CONTRACT NO. 63672

V:/2456/2456r001.dgn

PARCEL	OWNER	PERMANENT TAX NUMBER	TOTAL HOLDING	AREA TAKEN	PREVIOUSLY DEDICATED	*REMAINDER	TEMPORARY EASEMENT	EASEMENT PURPOSE	ACQUIRED BY
			ACRES	ACRES	ACRES	ACRES	ACRES		
0003 0003TE	DOUGLAS R. JOHNSON & LOUISE A. JOHNSON	15-10-302-004	3.036	0.895	0.406	2.141	931 SF 0.021 AC	ENTRANCE RECONSTRUCTION	
0004	JAMES J. SASAKI & NANCY A. SASAKI	15-10-302-005 15-10-302-007	1.264	0.157	0.054	1.107	——	N/A	

* "REMAINDER" REFERS TO THE REMAINDER OF THE PARCEL NOT USED/DEDICATED FOR HIGHWAY PURPOSES

PART OF THE W ½ OF THE SW ¼ OF SEC 10, T 34 N, R 14 E OF THE 3RD P.M., WILL COUNTY, ILLINOIS



PROPOSED CURVE #1
PI STA 188+08.63
Δ = 7°22'30" (RT)
D = 1°12'00"
R = 4774.70'
T = 307.72'
L = 614.59'
E = 9.91'
PC STA 185+00.91
PT STA 191+15.50

PARCEL 0002
FOR AREAS, SEE SHEET NO. 2

EXISTING R.O.W. INFORMATION

INSTRUMENT	DOCUMENT NO.	DATE OF RECORD
EXCHANGE STREET DEDICATION	800450	6-12-1956
SAFFORDS SUBDIVISION	94519 PB 3, PG 47	8-12-1874
LINCOLNSHIRE ESTATES UNIT 5, PART 2	419254 PB 21, PG 39	6-13-1928

LEGEND

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED PERMANENT EASEMENT LINE
- PROPOSED TEMPORARY EASEMENT LINE
- IRON PIPE, IRON ROD OR PK NAIL FOUND
- ⅝ INCH REBAR SET

129.32' MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
(129.32') RECORD DATA
EXISTING BUILDING
NET ROW REQUIRED

SECTION CORNER
QUARTER SECTION CORNER

- T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET ⅝ INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED ⅝ INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT-OF-WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT-OF-WAY IN CULTIVATED AREAS. BURIED ⅝ INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- □ RIGHT-OF-WAY STAKING PROPOSED (TO BE SET)

TIMOTHY C. QUIGG 3063 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JACKSONVILLE, ILL.

EXPIRES: 11/30/2014

NOTES:

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (97 ADJ) - EAST ZONE

DISTANCES ARE IN GRID ENGLISH. TO CONVERT GRID TO GROUND, DIVIDE BY CONVERSION FACTOR
CONVERSION FACTOR = 0.99999153

STATE OF ILLINOIS }
} S.S.
COUNTY OF MORGAN }

I, TIMOTHY C. QUIGG, DO HEREBY CERTIFY; THAT I AM AN ILLINOIS PROFESSIONAL LAND SURVEYOR, THAT THE SURVEY OF THIS PLAT OF HIGHWAYS WAS MADE UNDER MY DIRECTION IN SECTION 10, TOWNSHIP 34 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED AT JACKSONVILLE, ILLINOIS THIS THE 5th DAY OF JUNE 2013 A.D.

Timothy C. Quigg
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3063
TIMOTHY C. QUIGG

Hutchison Engineering, Inc.
1801 West Lafayette
PO Box 820
Jacksonville, Illinois 62651
PHONE : (217)245-7164 FAX (217)243-0468
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000825

WILL COUNTY HIGHWAY DEPT.
PLAT OF HIGHWAYS

ROUTE C.H. 49 (EXCHANGE ST) (F.A.U. RTE. 1638)
SECTION 05-00086-14-FP
COUNTY WILL
JOB# R-55-001-97 PROJECT#
SEC 10, T 34 N, R 14 E OF 3RD P.M.
STA 181+29.50 TO STA 195+00.00
DRAWN CHECKED
SCALE: 1"=50' SHEET NO. 3 OF 14
CONTRACT NO. 63672

V:\2456\2456P002.dgn

PARCEL	OWNER	PERMANENT TAX NUMBER	TOTAL HOLDING	AREA TAKEN	PREVIOUSLY DEDICATED	*REMAINDER	TEMPORARY EASEMENT	EASEMENT PURPOSE	ACQUIRED BY
			ACRES	ACRES	ACRES	ACRES	ACRES		
0005	RICHARD H. ANDRE & KENNETH W. ANDRE, TRUSTEE	15-10-304-003	15.060	5.299	1.486	9.761	———	N/A	

• "REMAINDER" REFERS TO THE REMAINDER OF THE PARCEL NOT USED/DEDICATED FOR HIGHWAY PURPOSES

FOR CONTINUATION, SEE SHEET NO. 10

PART OF THE E 1/2 OF THE SW 1/4 OF SEC 10, T 34 N, R 14 E OF THE 3RD P.M., WILL COUNTY, ILLINOIS

NE COR. SW 1/4, SEC 10
1 1/2" I-PIPE (FOUND)
MON. REC.* R2010

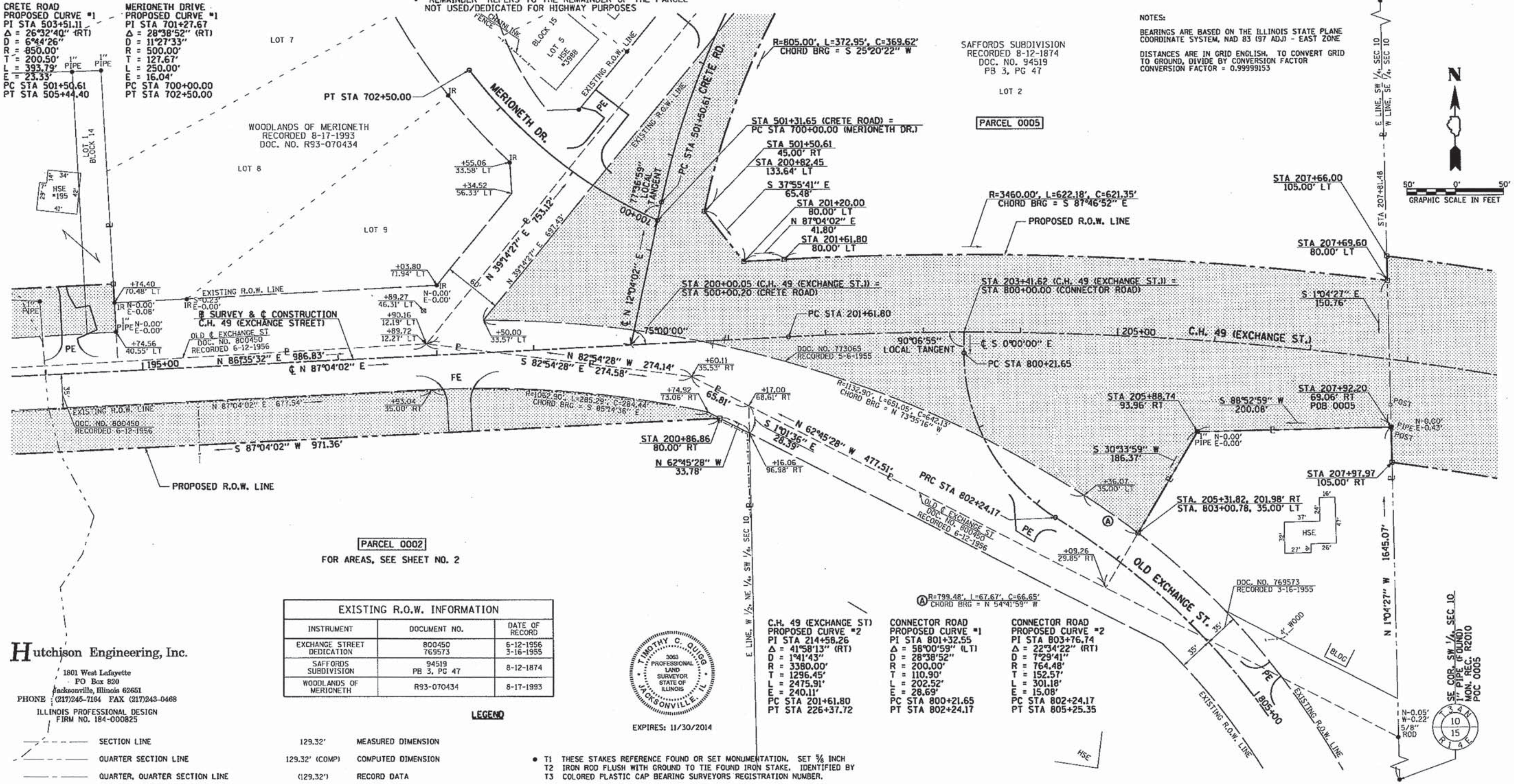
NOTES:

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (97 ADJ) - EAST ZONE

DISTANCES ARE IN GRID ENGLISH. TO CONVERT GRID TO GROUND, DIVIDE BY CONVERSION FACTOR CONVERSION FACTOR = 0.99999153

CRETE ROAD
PROPOSED CURVE #1
PI STA 503+51.11
Δ = 26°32'40" (RT)
D = 6°44'26"
R = 850.00'
T = 200.50'
L = 393.79'
E = 23.33'
PC STA 501+50.61
PT STA 505+44.40

MERIONETH DRIVE
PROPOSED CURVE #1
PI STA 701+27.67
Δ = 28°38'52" (RT)
D = 11°27'33"
R = 500.00'
T = 127.67'
L = 250.00'
E = 16.04'
PC STA 700+00.00
PT STA 702+50.00



LOT 7
LOT 8
LOT 9
WOODLANDS OF MERIONETH
RECORDED 8-17-1993
DOC. NO. R93-070434
SAFFORDS SUBDIVISION
RECORDED 8-12-1874
DOC. NO. 94519
PB 3, PG 47
LOT 2
PARCEL 0005
PARCEL 0002
FOR AREAS, SEE SHEET NO. 2
MERIONETH DR.
CRETE RD.
C.H. 49 (EXCHANGE ST.)
OLD EXCHANGE ST.
PT STA 702+50.00
R=805.00', L=372.95', C=369.62'
CHORD BRG = S 25°20'22" W
STA 501+31.65 (CRETE ROAD) =
PC STA 700+00.00 (MERIONETH DR.)
STA 501+50.61
45.00' RT
STA 200+82.45
133.64' LT
S 37°55'41" E
65.48'
STA 201+20.00
80.00' LT
N 87°04'02" E
41.80'
STA 201+61.80
80.00' LT
R=3460.00', L=622.18', C=621.35'
CHORD BRG = S 87°46'52" E
PROPOSED R.O.W. LINE
STA 207+66.00
105.00' LT
STA 207+69.60
80.00' LT
STA 200+00.05 (C.H. 49 (EXCHANGE ST.)) =
STA 500+00.20 (CRETE ROAD)
STA 203+41.62 (C.H. 49 (EXCHANGE ST.)) =
STA 800+00.00 (CONNECTOR ROAD)
PC STA 201+61.80
S 1°04'27" E
150.76'
B SURVEY & ¢ CONSTRUCTION
C.H. 49 (EXCHANGE STREET)
EXISTING R.O.W. LINE
N 86°35'32" E 986.83'
¢ N 87°04'02" E
S 82°54'28" E 274.58'
N 82°54'28" W 274.14'
75°00'00"
90°06'55"
LOCAL TANGENT
¢ S 0°00'00" E
PC STA 800+21.65
STA 205+88.74
93.96' RT
S 88°52'59" W
200.08'
STA 207+92.20
69.06' RT
POB 0005
S 30°33'59" W
186.37'
STA 207+97.97
105.00' RT
STA. 205+31.82, 201.98' RT
STA. 803+00.78, 35.00' LT
STA 200+86.86
80.00' RT
N 62°45'28" W
33.78'
S 1°01'36" E
28.39'
N 62°45'28" W 477.51'
PRC STA 802+24.17
S 87°04'02" W 971.36'
PROPOSED R.O.W. LINE
R=1062.90', L=285.29', C=284.44'
CHORD BRG = S 85°14'36" E
R=1132.90', L=651.05', C=642.13'
CHORD BRG = N 73°35'16" W
R=799.48', L=67.67', C=66.65'
CHORD BRG = N 54°41'59" W
DOC. NO. 773065
RECORDED 5-6-1955
DOC. NO. 800450
RECORDED 6-12-1956
DOC. NO. 769573
RECORDED 3-16-1955
1195+00
1205+00
1805+00
N 39°14'27" E 753.12'
N 12°04'02" E
N 1°04'27" W 1645.07'
E LINE, W 1/2, NE 1/4, SW 1/4, SEC 10
E LINE, SW 1/4, W LINE, SE 1/4, SEC 10
STA 207+81.48
SE COR. SW 1/4, SEC 10
1" PIPE (FOUND)
MON. REC. R2010
POC 0005
50' 0' 50'
GRAPHIC SCALE IN FEET
N
HSE
BLDG
EXISTING R.O.W. LINE

C.H. 49 (EXCHANGE ST)
PROPOSED CURVE #2
PI STA 214+58.26
Δ = 41°58'13" (RT)
D = 1°41'43"
R = 3380.00'
T = 1296.45'
L = 2475.91'
E = 240.11'
PC STA 201+61.80
PT STA 226+37.72

CONNECTOR ROAD
PROPOSED CURVE #1
PI STA 801+32.55
Δ = 58°00'59" (LT)
D = 28°38'52"
R = 200.00'
T = 110.90'
L = 202.52'
E = 28.69'
PC STA 800+21.65
PT STA 802+24.17

CONNECTOR ROAD
PROPOSED CURVE #2
PI STA 803+76.74
Δ = 22°34'22" (RT)
D = 7°29'41"
R = 764.48'
T = 152.57'
L = 301.18'
E = 15.08'
PC STA 802+24.17
PT STA 805+25.35

EXISTING R.O.W. INFORMATION

INSTRUMENT	DOCUMENT NO.	DATE OF RECORD
EXCHANGE STREET DEDICATION	800450 769573	6-12-1956 3-16-1955
SAFFORDS SUBDIVISION	94519 PB 3, PG 47	8-12-1874
WOODLANDS OF MERIONETH	R93-070434	8-17-1993

Hutchison Engineering, Inc.
1801 West Lafayette
PO Box 820
Jacksonville, Illinois 62651
PHONE (217)245-7184 FAX (217)243-0468
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000825

TIMOTHY C. QUIGG 3063 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JACKSONVILLE, IL

EXPIRES: 11/30/2014

LEGEND

———	SECTION LINE
———	QUARTER SECTION LINE
———	QUARTER, QUARTER SECTION LINE
- - - -	PLATTED LOT LINE
—P—	PROPERTY (DEED) LINE
———	CENTER LINE
———	EXISTING RIGHT OF WAY LINE
— — —	PROPOSED RIGHT OF WAY LINE
	PROPOSED PERMANENT EASEMENT LINE
	PROPOSED TEMPORARY EASEMENT LINE
•	IRON PIPE, IRON ROD OR PK NAIL FOUND
o	5/8 INCH REBAR SET
129.32'	MEASURED DIMENSION
129.32' (COMP)	COMPUTED DIMENSION
(129.32')	RECORD DATA
	EXISTING BUILDING
	NET ROW REQUIRED
T32N 17 16 / 20 21 R10E	SECTION CORNER
T32N 17 / 20 R10E	QUARTER SECTION CORNER

• T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

• BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ STAKING OF PROPOSED RIGHT-OF-WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT-OF-WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)

□ RIGHT-OF-WAY STAKING PROPOSED (TO BE SET)

STATE OF ILLINOIS)
) S.S.
COUNTY OF MORGAN)

I, TIMOTHY C. QUIGG, DO HEREBY CERTIFY: THAT I AM AN ILLINOIS PROFESSIONAL LAND SURVEYOR, THAT THE SURVEY OF THIS PLAT OF HIGHWAYS WAS MADE UNDER MY DIRECTION IN SECTION 10, TOWNSHIP 34 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED AT JACKSONVILLE, ILLINOIS THIS THE 5th DAY OF JUNE 2013 A.D.

Timothy C. Quigg
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3063
TIMOTHY C. QUIGG

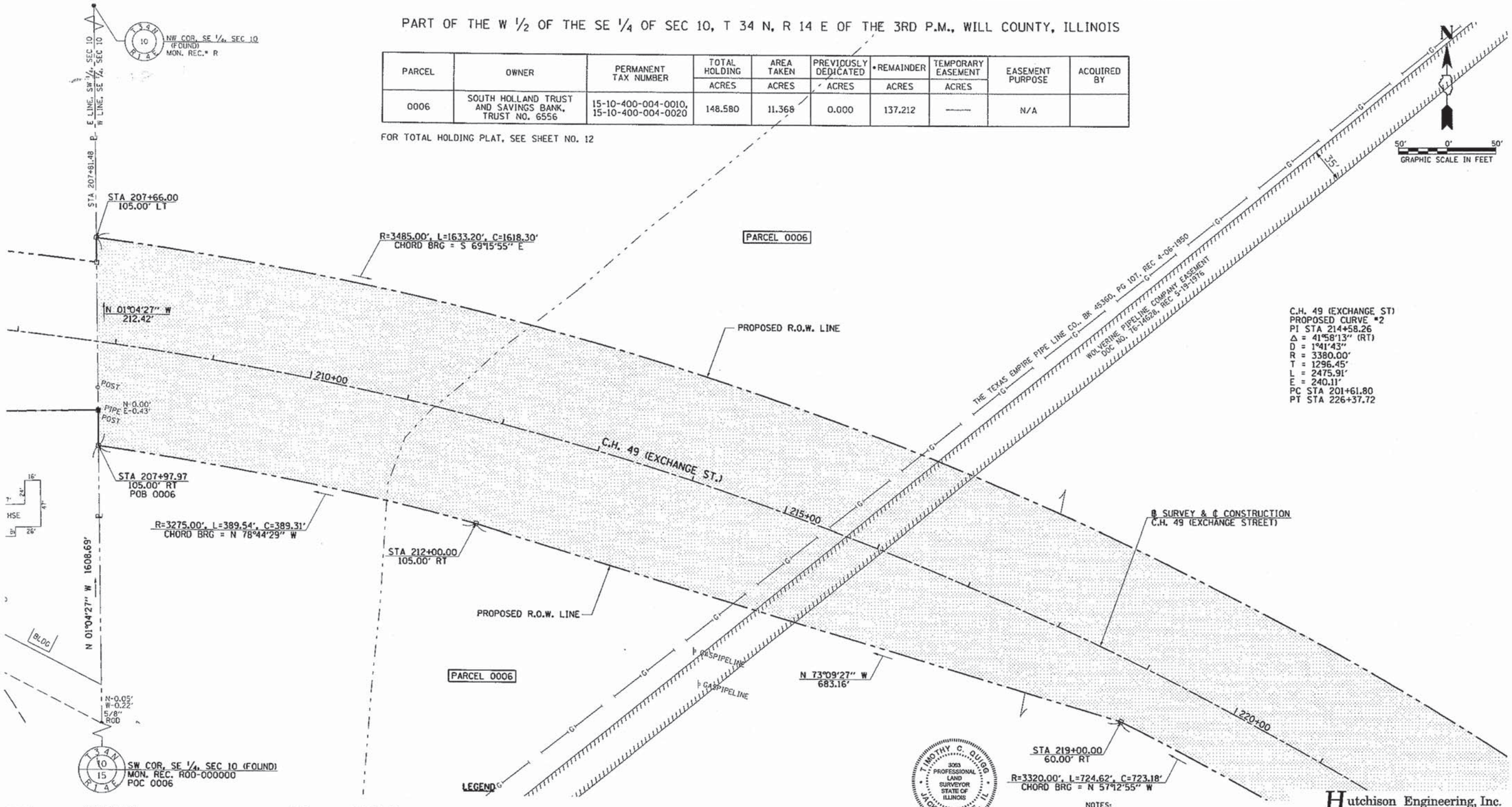
WILL COUNTY HIGHWAY DEPT.
PLAT OF HIGHWAYS
ROUTE C.H. 49 (EXCHANGE ST) (F.A.U. RTE. 1638)
SECTION 05-00086-14-FP
COUNTY WILL
JOB# R-55-001-97 PROJECT#
SEC 10, T 34 N, R 14 E OF 3RD P.M.
STA 194+00.00 TO STA 207+81.48
DRAWN CHECKED
SCALE: 1"=50' SHEET NO. 4 OF 14
CONTRACT NO. 63672

V:/2456/2456r003.dgn

PART OF THE W ½ OF THE SE ¼ OF SEC 10, T 34 N, R 14 E OF THE 3RD P.M., WILL COUNTY, ILLINOIS

PARCEL	OWNER	PERMANENT TAX NUMBER	TOTAL HOLDING	AREA TAKEN	PREVIOUSLY DEDICATED	*REMAINDER	TEMPORARY EASEMENT	EASEMENT PURPOSE	ACQUIRED BY
			ACRES	ACRES	ACRES	ACRES	ACRES		
0006	SOUTH HOLLAND TRUST AND SAVINGS BANK, TRUST NO. 6556	15-10-400-004-0010, 15-10-400-004-0020	148.580	11.368	0.000	137.212	———	N/A	

FOR TOTAL HOLDING PLAT, SEE SHEET NO. 12



LEGEND

———	SECTION LINE	129.32'	MEASURED DIMENSION
———	QUARTER SECTION LINE	129.32' (COMP)	COMPUTED DIMENSION
———	QUARTER, QUARTER SECTION LINE	(129.32')	RECORD DATA
- - - - -	PLATTED LOT LINE		EXISTING BUILDING
——P———	PROPERTY (DEED) LINE		NET ROW REQUIRED
———	CENTER LINE		
———	EXISTING RIGHT OF WAY LINE		
———	PROPOSED RIGHT OF WAY LINE		SECTION CORNER
|||||||||	PROPOSED PERMANENT EASEMENT LINE		QUARTER SECTION CORNER
¦¦¦¦¦¦¦¦¦	PROPOSED TEMPORARY EASEMENT LINE		
•	IRON PIPE, IRON ROD OR PK NAIL FOUND		
○	⅝ INCH REBAR SET		

- ● T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET ⅝ INCH T2 IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY T3 COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONU- BT2 MENTATION. BURIED ⅝ INCH IRON ROD 20 INCHES BELOW GROUND TO TIE BT3 FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT-OF-WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT-OF-WAY IN CULTIVATED AREAS. BURIED ⅝ INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- □ RIGHT-OF-WAY STAKING PROPOSED (TO BE SET)

T. TIMOTHY C. QUIGG 3063 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JACKSONVILLE, IL

EXPIRES: 11/30/2012

NOTES:

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (97 ADJ) - EAST ZONE

DISTANCES ARE IN GRID ENGLISH. TO CONVERT GRID TO GROUND, DIVIDE BY CONVERSION FACTOR CONVERSION FACTOR = 0.99999153

STATE OF ILLINOIS }
} S.S.
COUNTY OF MORGAN }

I, TIMOTHY C. QUIGG, DO HEREBY CERTIFY; THAT I AM AN ILLINOIS PROFESSIONAL LAND SURVEYOR, THAT THE SURVEY OF THIS PLAT OF HIGHWAYS WAS MADE UNDER MY DIRECTION IN SECTION 10, TOWNSHIP 34 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED AT JACKSONVILLE, ILLINOIS THIS THE 25th DAY OF AUGUST 2011 A.D.

Timothy C. Quigg
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3063
TIMOTHY C. QUIGG

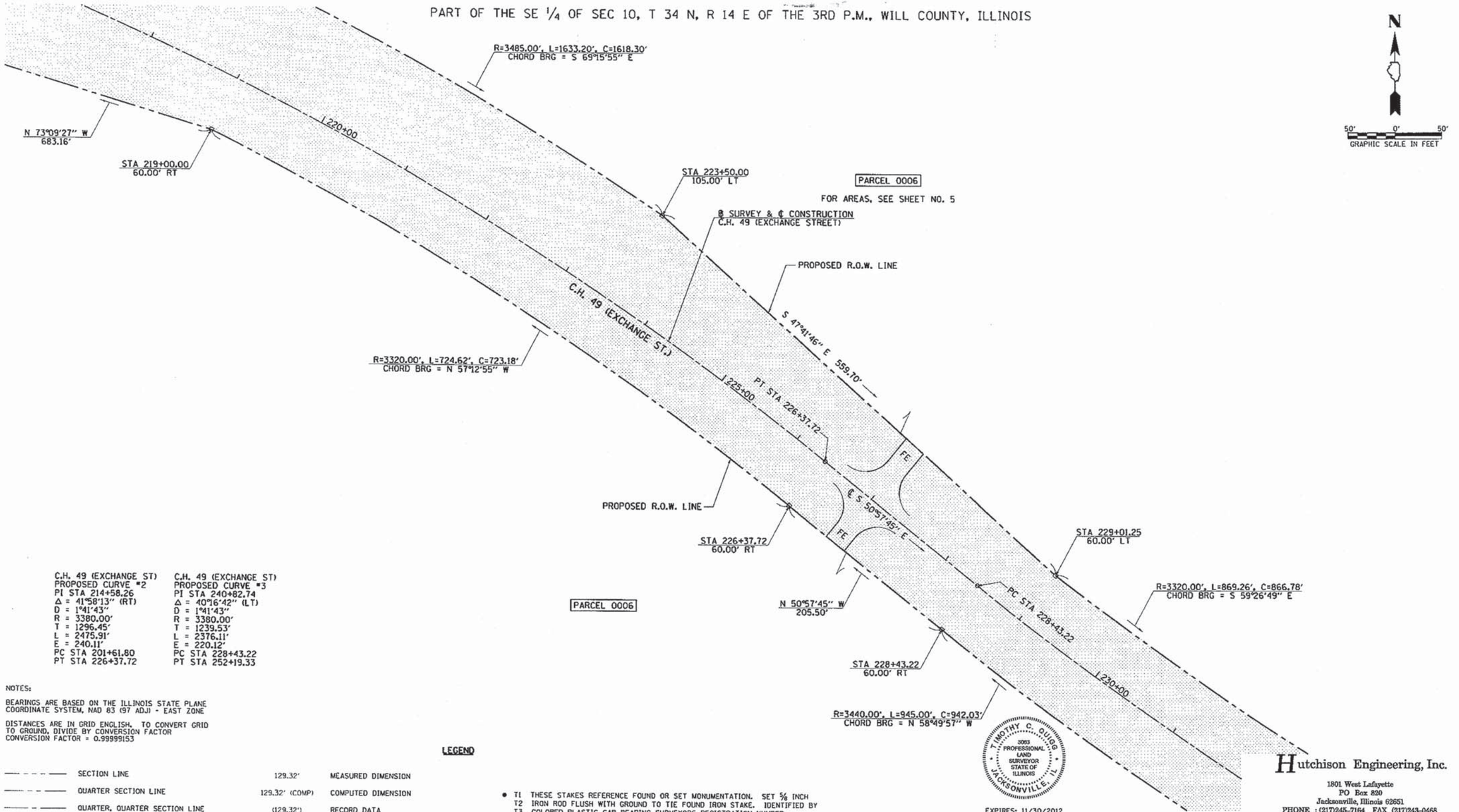
Hutchison Engineering, Inc.
1801 West Lafayette
PO Box 820
Jacksonville, Illinois 62651
PHONE : (217)245-7164 FAX (217)243-0468
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000825

WILL COUNTY HIGHWAY DEPT.
PLAT OF HIGHWAYS

ROUTE C.H. 49 (EXCHANGE ST) (F.A.U. RTE. 1638)
SECTION 05-00086-14-FP
COUNTY WILL
JOB# R-55-001-97 PROJECT#
SEC 10, T 34 N, R 14 E OF 3RD P.M.
STA 207+81.48 TO STA 221+00.00
DRAWN CHECKED
SCALE: 1"=50' SHEET NO. 5 OF 14
CONTRACT NO. 63672

W:/2456/2456r004.dgn

PART OF THE SE 1/4 OF SEC 10, T 34 N, R 14 E OF THE 3RD P.M., WILL COUNTY, ILLINOIS



C.H. 49 (EXCHANGE ST) PROPOSED CURVE #2	C.H. 49 (EXCHANGE ST) PROPOSED CURVE #3
PI STA 214+58.26	PI STA 240+82.74
Δ = 41°58'13" (RT)	Δ = 40°16'42" (LT)
D = 1°41'43"	D = 1°41'43"
R = 3380.00'	R = 3380.00'
T = 1296.45'	T = 1239.53'
L = 2475.91'	L = 2376.11'
E = 240.11'	E = 220.12'
PC STA 201+61.80	PC STA 228+43.22
PT STA 226+37.72	PT STA 252+19.33

NOTES:

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (97 ADJ) - EAST ZONE

DISTANCES ARE IN GRID ENGLISH. TO CONVERT GRID TO GROUND, DIVIDE BY CONVERSION FACTOR
CONVERSION FACTOR = 0.99999153

LEGEND

SECTION LINE	129.32' MEASURED DIMENSION
QUARTER SECTION LINE	129.32' (COMP) COMPUTED DIMENSION
QUARTER, QUARTER SECTION LINE	(129.32') RECORD DATA
PLATTED LOT LINE	EXISTING BUILDING
PROPERTY (DEED) LINE	NET ROW REQUIRED
CENTER LINE	
EXISTING RIGHT OF WAY LINE	
PROPOSED RIGHT OF WAY LINE	
PROPOSED PERMANENT EASEMENT LINE	
PROPOSED TEMPORARY EASEMENT LINE	
IRON PIPE, IRON ROD OR PK NAIL FOUND	
5/8 INCH REBAR SET	

T.32N. 17 16 20 21 R.10E. SECTION CORNER

T.32N. 17 20 R.10E. QUARTER SECTION CORNER

- T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT-OF-WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT-OF-WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER. I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- □ RIGHT-OF-WAY STAKING PROPOSED (TO BE SET)

TIMOTHY C. QUIGG 3063 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JACKSONVILLE, IL

EXPIRES: 11/30/2012

STATE OF ILLINOIS)
) S.S.
COUNTY OF MORGAN)

I, TIMOTHY C. QUIGG, DO HEREBY CERTIFY: THAT I AM AN ILLINOIS PROFESSIONAL LAND SURVEYOR, THAT THE SURVEY OF THIS PLAT OF HIGHWAYS WAS MADE UNDER MY DIRECTION IN SECTION 10, TOWNSHIP 34 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED AT JACKSONVILLE, ILLINOIS THIS THE 25th DAY OF AUGUST 2011 A.D.

Timothy C. Quigg
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3063
TIMOTHY C. QUIGG

Hutchison Engineering, Inc.
1801 West Lafayette
PO Box 820
Jacksonville, Illinois 62651
PHONE : (217)245-7164 FAX (217)243-0468
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000825

WILL COUNTY HIGHWAY DEPT.
PLAT OF HIGHWAYS

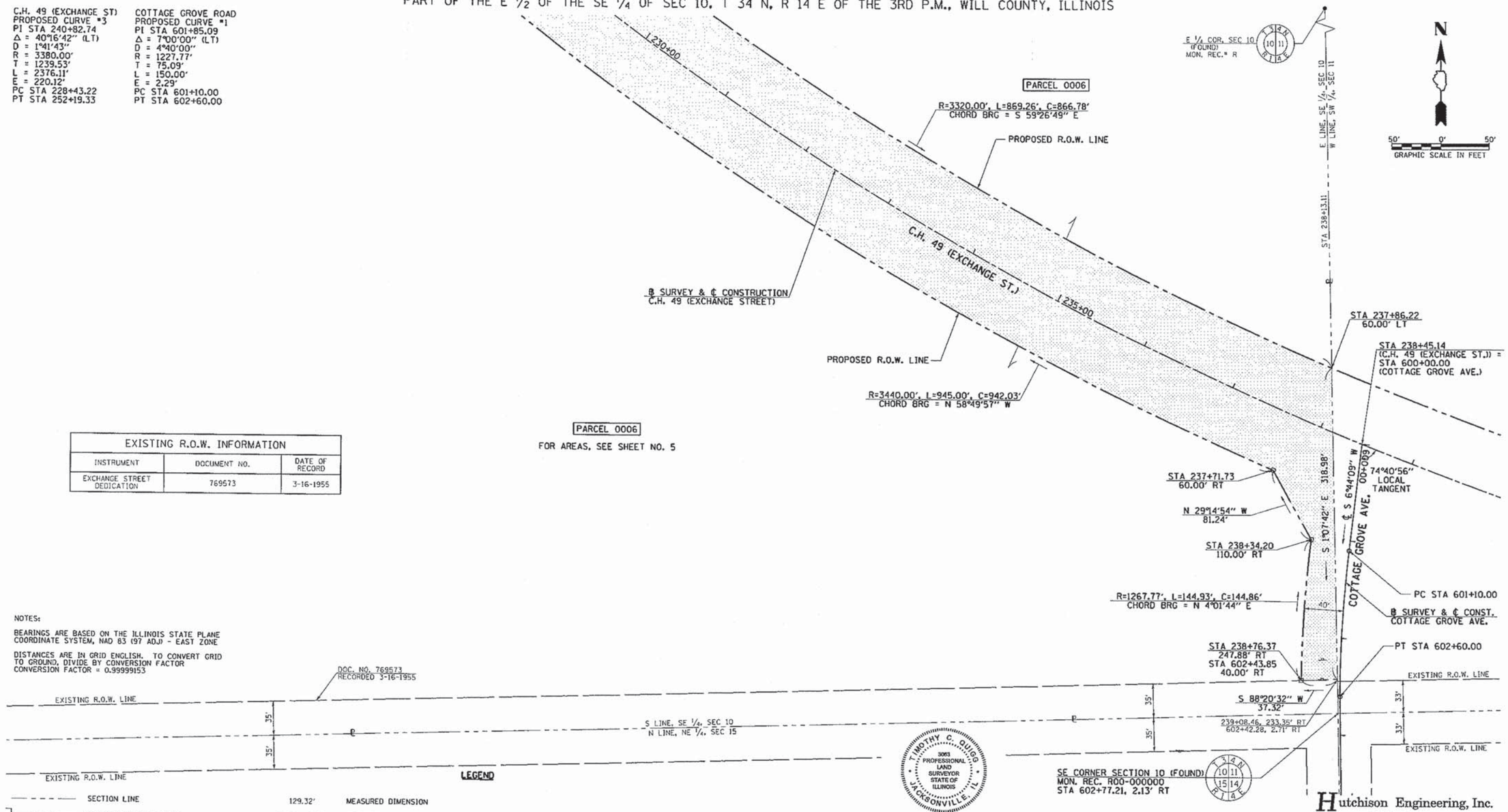
ROUTE C.H. 49 (EXCHANGE ST) (F.A.U. RTE. 1638)
SECTION 05-00086-14-FP
COUNTY WILL
JOB# R-55-001-97 PROJECT#
SEC 10, T 34 N, R 14 E OF 3RD P.M.
STA 218+00.00 TO STA 231+00.00
DRAWN CHECKED
SCALE: 1"=50' SHEET NO. 6 OF 14
CONTRACT NO. 63672

V:/2456/2456r005.dgn

PART OF THE E ½ OF THE SE ¼ OF SEC 10, T 34 N, R 14 E OF THE 3RD P.M., WILL COUNTY, ILLINOIS

C.H. 49 (EXCHANGE ST)
PROPOSED CURVE #3
PI STA 240+82.74
Δ = 40°16'42" (LT)
D = 1°41'43"
R = 3380.00'
T = 1239.53'
L = 2376.11'
E = 220.12'
PC STA 228+43.22
PT STA 252+19.33

COTTAGE GROVE ROAD
PROPOSED CURVE #1
PI STA 601+85.09
Δ = 7°00'00" (LT)
D = 4°40'00"
R = 1227.77'
T = 75.09'
L = 150.00'
E = 2.29'
PC STA 601+10.00
PT STA 602+60.00



EXISTING R.O.W. INFORMATION		
INSTRUMENT	DOCUMENT NO.	DATE OF RECORD
EXCHANGE STREET DEDICATION	769573	3-16-1955

NOTES:

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (97 ADJ) - EAST ZONE

DISTANCES ARE IN GRID ENGLISH. TO CONVERT GRID TO GROUND, DIVIDE BY CONVERSION FACTOR
CONVERSION FACTOR = 0.99999153

LEGEND

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED PERMANENT EASEMENT LINE
- PROPOSED TEMPORARY EASEMENT LINE
- IRON PIPE, IRON ROD OR PK NAIL FOUND
- ⅝ INCH REBAR SET

- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORD DATA
- EXISTING BUILDING
- NET ROW REQUIRED

SECTION CORNER (T32N, R10E, 17, 16, 2021)

QUARTER SECTION CORNER (T32N, R10E, 17, 20)

- T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET ⅝ INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED ⅝ INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT-OF-WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT-OF-WAY IN CULTIVATED AREAS. BURIED ⅝ INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- □ RIGHT-OF-WAY STAKING PROPOSED (TO BE SET)

TIMOTHY C. QUIGG 3063 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JACKSONVILLE, IL

EXPIRES: 11/30/2012

STATE OF ILLINOIS }
} S.S.
COUNTY OF MORGAN }

I, TIMOTHY C. QUIGG, DO HEREBY CERTIFY: THAT I AM AN ILLINOIS PROFESSIONAL LAND SURVEYOR, THAT THE SURVEY OF THIS PLAT OF HIGHWAYS WAS MADE UNDER MY DIRECTION IN SECTION 10, TOWNSHIP 34 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED AT JACKSONVILLE, ILLINOIS THIS THE 25th DAY OF AUGUST 2011 A.D.

Timothy C. Quigg
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3063
TIMOTHY C. QUIGG

Hutchison Engineering, Inc.
1801 West Lafayette
PO Box 820
Jacksonville, Illinois 62651
PHONE : (217)245-7164 FAX (217)243-0468
ILLINOIS PROFESSIONAL DESIGN
FIRM NO. 184-000825

WILL COUNTY HIGHWAY DEPT.
PLAT OF HIGHWAYS

ROUTE C.H. 49 (EXCHANGE ST) (F.A.U. RTE. 1638)
SECTION 05-00086-14-FP
COUNTY WILL
JOB# R-55-001-97 PROJECT#
SEC 10, T 34 N, R 14 E OF 3RD P.M.
STA 230+00.00 TO STA 238+13.11
DRAWN CHECKED
SCALE: 1"=50' SHEET NO. 7 OF 14
CONTRACT NO. 63672

V:/2456/2456r006.dgn

PART OF THE SW 1/4 OF SEC 11 AND PART OF THE NW 1/4 OF SEC 14, T 34 N, R 14 E OF THE 3RD P.M., WILL COUNTY, ILLINOIS

PARCEL	OWNER	PERMANENT TAX NUMBER	TOTAL HOLDING	AREA TAKEN	PREVIOUSLY DEDICATED	REMAINDER	TEMPORARY EASEMENT	EASEMENT PURPOSE	ACQUIRED BY
			ACRES	ACRES	ACRES	ACRES	ACRES		
0007	WRL EXCHANGE AVENUE, LLC JGL EXCHANGE AVENUE, LLC & RGL EXCHANGE AVENUE, LLC	15-11-300-001-0010, 15-11-300-003-0020	149.090	5.495	1.362	143.595	——	N/A	
0008	LILLIAN KOELLING, TRUSTEE	15-14-100-001-0000	80.000	0.437	0.289	• 79.563	——	N/A	

FOR TOTAL HOLDING PLATS, SEE SHEETS NO. 13 AND 14

• "REMAINDER" REFERS TO THE REMAINDER OF THE PARCEL NOT USED/DEDICATED FOR HIGHWAY PURPOSES

N

50' 0' 50'
GRAPHIC SCALE IN FEET

W 1/4 COR, SEC 11 (FOUND) MON. REC.* R

STA 238+13.11 E LINE, SE 1/4, SEC 10 W LINE, SW 1/4, SEC 11

STA 237+86.22 60.00' LT

STA 238+45.14 (C.H. 49 (EXCHANGE ST.)) = STA 600+00.00 (COTTAGE GROVE AVE.)

R=3320.00', L=1407.67', C=1397.15' CHORD BRG = S 79°05'40" E

W 1/2, SW 1/4 SEC 11

PARCEL 0007

℄ SURVEY & ℄ CONSTRUCTION C.H. 49 (EXCHANGE STREET)

74°40'56" LOCAL TANGENT

℄ S 6°44'09" W 00+00.91

N 1°07'42" W 353.98'

COTTAGE GROVE AVE.

PC STA 601+10.00

1240+00

PROPOSED R.O.W. LINE

C.H. 49 (EXCHANGE ST.)

1245+00

PT STA 602+60.00

FE

EXISTING R.O.W. LINE

S 88°45'38" W 1797.18'

1250+00

+42.28 2.71' RT

+44.28 2.65' RT

35'

35'

33' DOC. NO. R2010035097 RECORDED 4-7-2010

33' DOC. NO. R2010035098 RECORDED 4-7-2010

EXISTING R.O.W. LINE

S LINE, SW 1/4, SEC 11
N LINE, NW 1/4, SEC 14
N 88°45'38" E 936.61'

S 88°45'38" W 1797.24'

N 1°14'22" W 33.00'

+91.67, 27.26' RT
POB 0008

STA 247+95.76 60.00' RT

N 88°45'38" E 381.67'

N 88°45'38" E 381.51'

S 0°58'08" E 59.62'

+71.04 0.38' RT

+71.35 33.38' RT

EXISTING R.O.W. LINE

PROPOSED R.O.W. LINE

N 88°45'32" E 430.67'

STA 212+19.33 60.00' LT

PT STA 252+19.33

STA 251+71.60 60.00' RT

R=3440.00', L=382.51', C=382.31' CHORD BRG = N 87°14'47" W

℄ S 0°47'22" E 00+50.91

EXISTING R.O.W. LINE

EXISTING R.O.W. LINE

SW CORNER SECTION 11 (FOUND) MON. REC. R00-000000 STA 602+77.21, 2.13' RT POB 0007 POC 0008

PARCEL 0008

E LINE, W 1/2, NW 1/4, SEC 14

W 1/2, NW 1/4 SEC 14

C.H. 49 (EXCHANGE ST)	COTTAGE GROVE ROAD
PROPOSED CURVE #3	PROPOSED CURVE #1
PI STA 240+82.74	PI STA 601+85.09
Δ = 40°16'42" (LT)	Δ = 7°00'00" (LT)
D = 1°41'43"	D = 4°40'00"
R = 3380.00'	R = 1227.77'
T = 1239.53'	T = 75.09'
L = 2376.11'	L = 150.00'
E = 220.12'	E = 2.29'
PC STA 228+43.22	PC STA 601+10.00
PT STA 252+19.33	PT STA 602+60.00

EXISTING R.O.W. INFORMATION		
INSTRUMENT	DOCUMENT NO.	DATE OF RECORD
EXCHANGE STREET DEDICATION	R2010035097 & R2010035098	4-7-2010

LEGEND

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED PERMANENT EASEMENT LINE
- PROPOSED TEMPORARY EASEMENT LINE
- IRON PIPE, IRON ROD OR PK NAIL FOUND
- 5/8 INCH REBAR SET

- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORD DATA
- EXISTING BUILDING
- NET ROW REQUIRED
- SECTION CORNER
- QUARTER SECTION CORNER

- • T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- • BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT-OF-WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT-OF-WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- □ RIGHT-OF-WAY STAKING PROPOSED (TO BE SET)

TIMOTHY C. QUIGG 3063 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JACKSONVILLE, IL

EXPIRES: 11/30/2012

STATE OF ILLINOIS)
) S.S.
COUNTY OF MORGAN)

I, TIMOTHY C. QUIGG, DO HEREBY CERTIFY; THAT I AM AN ILLINOIS PROFESSIONAL LAND SURVEYOR, THAT THE SURVEY OF THIS PLAT OF HIGHWAYS WAS MADE UNDER MY DIRECTION IN SECTIONS 11 AND 14, TOWNSHIP 34 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED AT JACKSONVILLE, ILLINOIS THIS THE 25th DAY OF AUGUST 2011 A.D.

Timothy C. Quigg
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3063
TIMOTHY C. QUIGG

NOTES:

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (97 ADJ) - EAST ZONE

DISTANCES ARE IN GRID ENGLISH. TO CONVERT GRID TO GROUND, DIVIDE BY CONVERSION FACTOR
CONVERSION FACTOR = 0.99999153

Hutchison Engineering, Inc.
1801 West Lafayette
PO Box 820
Jacksonville, Illinois 62651
PHONE : (217)245-7164 FAX (217)243-0468
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000825

WILL COUNTY HIGHWAY DEPT.
PLAT OF HIGHWAYS

ROUTE C.H. 49 (EXCHANGE ST) (F.A.U. RTE. 1638)
SECTION 05-00086-14-FP
COUNTY WILL
JOB# R-55-001-97 PROJECT#
SEC 11 & 14, T 34 N, R 14 E OF 3RD P.M.
STA 238+13.11 TO STA 252+19.33
DRAWN CHECKED
SCALE: 1"=50' SHEET NO. 8 OF 14
CONTRACT NO. 63672

V:/2456/2456r007.dgn

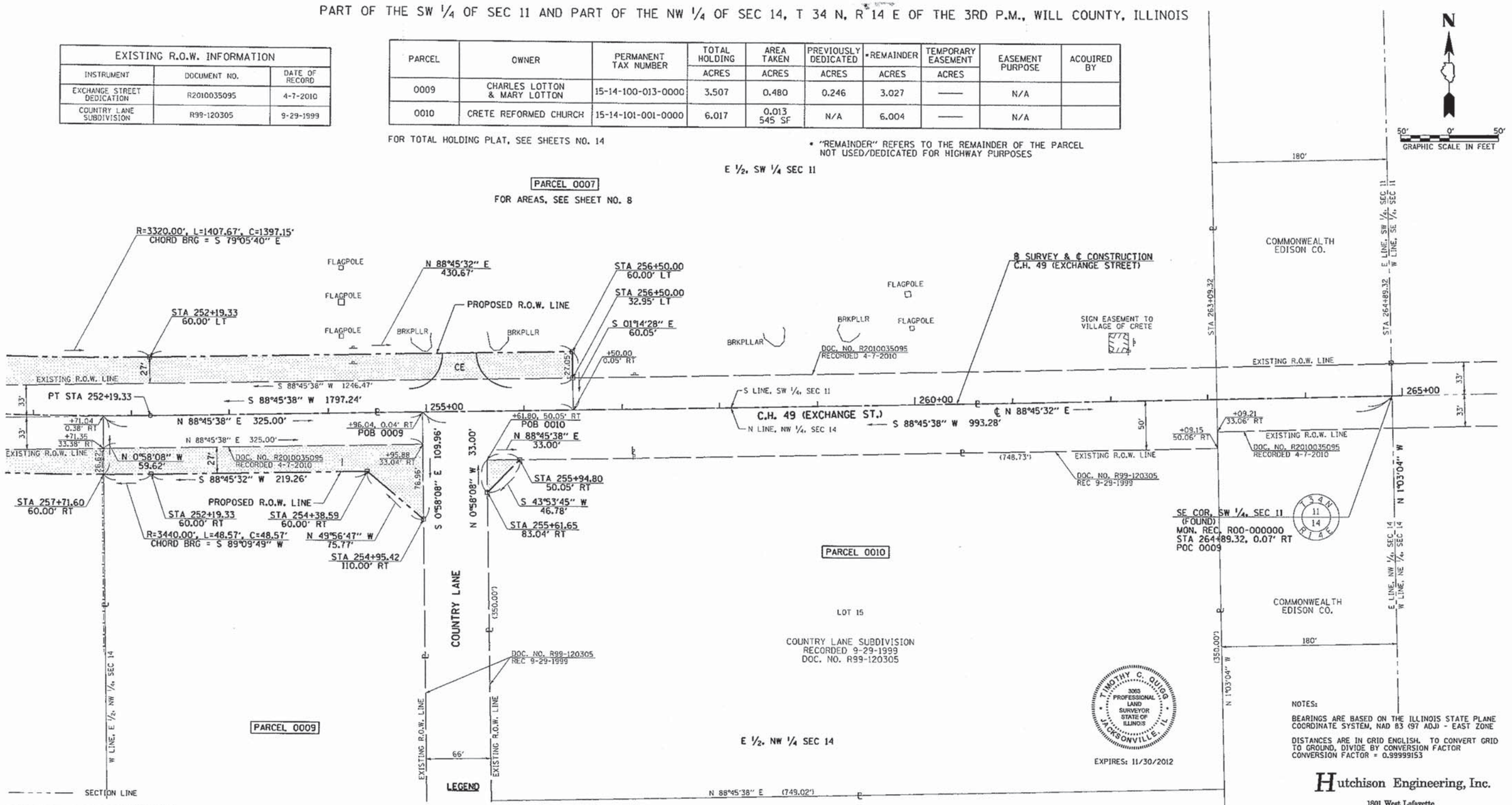
PART OF THE SW 1/4 OF SEC 11 AND PART OF THE NW 1/4 OF SEC 14, T 34 N, R 14 E OF THE 3RD P.M., WILL COUNTY, ILLINOIS

EXISTING R.O.W. INFORMATION		
INSTRUMENT	DOCUMENT NO.	DATE OF RECORD
EXCHANGE STREET DEDICATION	R2010035095	4-7-2010
COUNTRY LANE SUBDIVISION	R99-120305	9-29-1999

PARCEL	OWNER	PERMANENT TAX NUMBER	TOTAL HOLDING	AREA TAKEN	PREVIOUSLY DEDICATED	*REMAINDER	TEMPORARY EASEMENT	EASEMENT PURPOSE	ACQUIRED BY
			ACRES	ACRES	ACRES	ACRES	ACRES		
0009	CHARLES LOTTON & MARY LOTTON	15-14-100-013-0000	3.507	0.480	0.246	3.027	——	N/A	
0010	CRETE REFORMED CHURCH	15-14-101-001-0000	6.017	0.013 545 SF	N/A	6.004	——	N/A	

FOR TOTAL HOLDING PLAT, SEE SHEETS NO. 14

* "REMAINDER" REFERS TO THE REMAINDER OF THE PARCEL NOT USED/DEDICATED FOR HIGHWAY PURPOSES



LEGEND

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED PERMANENT EASEMENT LINE
- PROPOSED TEMPORARY EASEMENT LINE
- IRON PIPE, IRON ROD OR PK NAIL FOUND
- ⅝ INCH REBAR SET

129.32' MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
(129.32') RECORD DATA
EXISTING BUILDING
NET ROW REQUIRED

SECTION CORNER — QUARTER SECTION CORNER

- T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET ⅝ INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED ⅝ INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT-OF-WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT-OF-WAY IN CULTIVATED AREAS. BURIED ⅝ INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- □ RIGHT-OF-WAY STAKING PROPOSED (TO BE SET)

STATE OF ILLINOIS)
) S.S.
COUNTY OF MORGAN)

I, TIMOTHY C. QUIGG, DO HEREBY CERTIFY: THAT I AM AN ILLINOIS PROFESSIONAL LAND SURVEYOR, THAT THE SURVEY OF THIS PLAT OF HIGHWAYS WAS MADE UNDER MY DIRECTION IN SECTIONS 11 AND 14, TOWNSHIP 34 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED AT JACKSONVILLE, ILLINOIS THIS THE 25th DAY OF AUGUST 2011 A.D.

Timothy C. Quigg
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3063
TIMOTHY C. QUIGG

TIMOTHY C. QUIGG 3063 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JACKSONVILLE, IL

EXPIRES: 11/30/2012

NOTES:

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (97 ADJ) - EAST ZONE

DISTANCES ARE IN GRID ENGLISH. TO CONVERT GRID TO GROUND, DIVIDE BY CONVERSION FACTOR
CONVERSION FACTOR = 0.99999153

Hutchison Engineering, Inc.
1801 West Lafayette
PO Box 820
Jacksonville, Illinois 62651
PHONE : (217)245-7164 FAX (217)243-0468
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000825

WILL COUNTY HIGHWAY DEPT.
PLAT OF HIGHWAYS

ROUTE C.H. 49 (EXCHANGE ST) (F.A.U. RTE. 1638)
SECTION 05-00086-14-FP
COUNTY WILL
JOB# R-55-001-97 PROJECT#
SEC 11 & 14, T 34 N, R 14 E OF 3RD P.M.
STA 252+71.04 TO STA 265+00.00
DRAWN CHECKED
SCALE: 1"=50' SHEET NO. 9 OF 14
CONTRACT NO. 63672

V:/2456/2456r008.dgn

CRETE ROAD
PROPOSED CURVE #1
PI STA 503+51.11
Δ = 26°32'40" (RT)
D = 6°44'26"
R = 850.00'
T = 200.50'
L = 393.79'
E = 23.33'
PC STA 501+50.61
PT STA 505+44.40

MERIONETH DRIVE
PROPOSED CURVE #1
PI STA 701+27.67
Δ = 28°38'52" (RT)
D = 11°27'33"
R = 500.00'
T = 127.67'
L = 250.00'
E = 16.04'
PC STA 700+00.00
PT STA 702+50.00

PART OF THE E ½ OF THE SW ¼ OF SEC 10,
T 34 N, R 14 E OF THE 3RD P.M., WILL COUNTY, ILLINOIS

W ¼ CORNER, SECTION 10
⅝" I-ROD (SET)
MON. REC. R2010

NOTES:

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (97 ADJ) - EAST ZONE

DISTANCES ARE IN GRID ENGLISH. TO CONVERT GRID TO GROUND, DIVIDE BY CONVERSION FACTOR
CONVERSION FACTOR = 0.99999153

50' 0' 50'
GRAPHIC SCALE IN FEET

EXISTING R.O.W. INFORMATION		
INSTRUMENT	DOCUMENT NO.	DATE OF RECORD
EXCHANGE STREET DEDICATION	800450	6-12-1956
SAFFORDS SUBDIVISION	94519 PB 3, PG 47	8-12-1874
LINCOLNSHIRE ESTATES UNIT 5, PART 2	419254 PB 21, PG 39	6-13-1928
WOODLANDS OF MERIONETH	R93-070434	8-17-1993

GLOUCESTER DR.

EXISTING R.O.W. LINE

WOODLANDS OF MERIONETH
RECORDED 8-17-1993
DOC. NO. R93-070434

LOT 7
LOT 8
LOT 9

LINCOLNSHIRE ESTATES,
PART 2 OR UNIT NO. 5
RECORDED 6-13-1928
DOC. NO. 419254
PB 21, PG 39

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8 LOT 9 LOT 10 LOT 11 LOT 12 LOT 13 LOT 14 LOT 15 LOT 16
LOT 33 LOT 34 LOT 35 LOT 36 LOT 37 LOT 38 LOT 39 LOT 40
BLOCK 15

HSE #3988 HSE #3982 HSE #3976 HSE #3970 HSE #3966 HSE #3962 HSE #3954

PT STA 702+50.00

MERIONETH DR.

OLD & EXCHANGE ST.
DOC. NO. 800450
RECORDED 6-12-1956

C.H. 49 (EXCHANGE ST.) ℄ N 87°04'02" E

N 39°14'27" E 753.12'
N 39°14'27" E 697.43'

505+00

PT STA 505+44.40

CRETE RD.

STA 506+52.98
29.91' RT

S 51°23'18" E
45.09'

STA 506+52.98
45.00' RT

S 38°36'42" W
108.58'

STA 505+44.40
45.00' RT

R=805.00', L=372.95', C=369.62'
CHORD BRG = S 25°20'22" W

77°36'59"
LOCAL
TANGENT

PC STA 501+50.61 (CRETE ROAD) =
STA 501+31.65 (MERIONETH DR.)
PC STA 700+00.00 (MERIONETH DR.)

℄ N 12°04'02" E

75°00'00"

STA 200+82.45, 133.64' LT
STA 501+50.61, 45.00' RT

S 37°55'41" E
65.48'

STA 201+20.00
80.00' LT

N 87°04'02" E
41.80'

STA 201+61.80
80.00' LT

PC STA 201+61.80

PROPOSED R.O.W. LINE

R=3460.00', L=622.18', C=621.35'
CHORD BRG = S 87°46'52" E

N 82°54'28" W
274.14'

N 62°45'28" W
477.51'

EXISTING R.O.W. LINE

℄ SURVEY & ℄ CONSTRUCTION
C.H. 49 (EXCHANGE STREET)

STA 200+00.05 (C.H. 49 (EXCHANGE ST.)) =
STA 500+00.20 (CRETE ROAD)

PARCEL 0002

WEHLAN TRIEBOLD, CAROL TRIEBOLD,
B.R. TONGREN, TRUSTEES OF TRUST NO. WCT-1

SAFFORDS SUBDIVISION
RECORDED 8-12-1874
DOC. NO. 94519
PB 3, PG 47
LOT 2

PARCEL 0005

FOR AREAS, SEE SHEET NO. 4

RICHARD H. ANDRE &
KENNETH W. ANDRE, TRUSTEE

N LINE, SW ¼, SEC 10

IROD

PIPE

NE COR, SW ¼, SEC 10
1 ½" I-PIPE (FOUND)
MON. REC. R2010

E LINE, SW ¼, SEC 10

FOR CONTINUATION, SEE SHEET NO. 4

LEGEND

SECTION LINE	129.32' MEASURED DIMENSION
QUARTER SECTION LINE	129.32' (COMP) COMPUTED DIMENSION
QUARTER, QUARTER SECTION LINE	(129.32') RECORD DATA
PLATTED LOT LINE	EXISTING BUILDING
PROPERTY (DEED) LINE	NET ROW REQUIRED
CENTER LINE	
EXISTING RIGHT OF WAY LINE	
PROPOSED RIGHT OF WAY LINE	
PROPOSED PERMANENT EASEMENT LINE	
PROPOSED TEMPORARY EASEMENT LINE	
IRON PIPE, IRON ROD OR PK NAIL FOUND	
⅝ INCH REBAR SET	

T 34 N, R 14 E, 17, 16, 2021 — SECTION CORNER

T 34 N, R 14 E, 17, 20 — QUARTER SECTION CORNER

- T1 T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET ⅝ INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED ⅝ INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ STAKING OF PROPOSED RIGHT-OF-WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT-OF-WAY IN CULTIVATED AREAS. BURIED ⅝ INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- □ RIGHT-OF-WAY STAKING PROPOSED (TO BE SET)

TIMOTHY C. QUIGG
3063
PROFESSIONAL LAND SURVEYOR
STATE OF ILLINOIS
JACKSONVILLE, IL

STATE OF ILLINOIS }
} S.S.
COUNTY OF MORGAN }

EXPIRES: 11/30/2012

I, TIMOTHY C. QUIGG, DO HEREBY CERTIFY: THAT I AM AN ILLINOIS PROFESSIONAL LAND SURVEYOR, THAT THE SURVEY OF THIS PLAT OF HIGHWAYS WAS MADE UNDER MY DIRECTION IN SECTION 10, TOWNSHIP 34 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED AT JACKSONVILLE, ILLINOIS THIS THE 25th DAY OF AUGUST 2011 A.D.

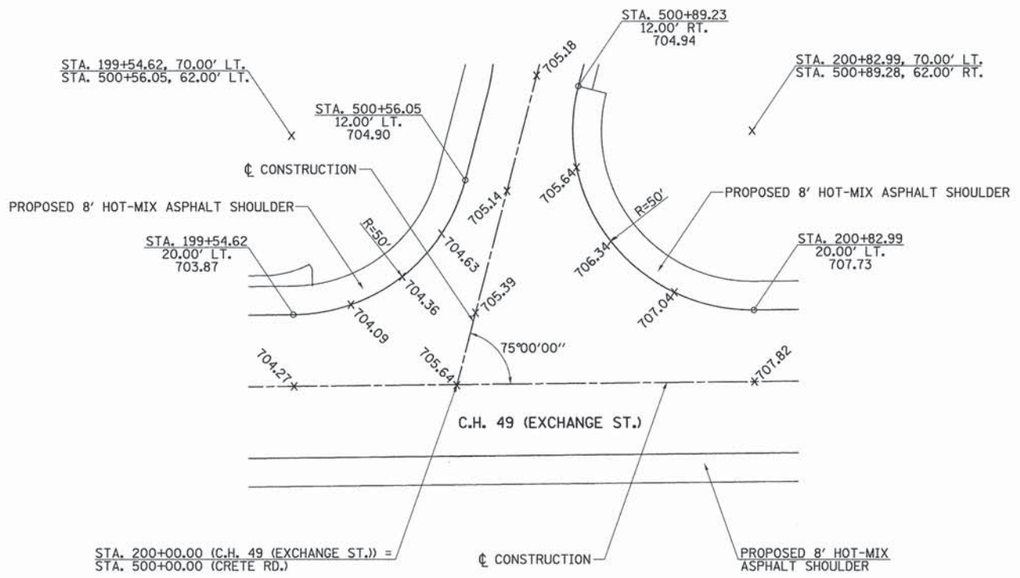
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3063
TIMOTHY C. QUIGG

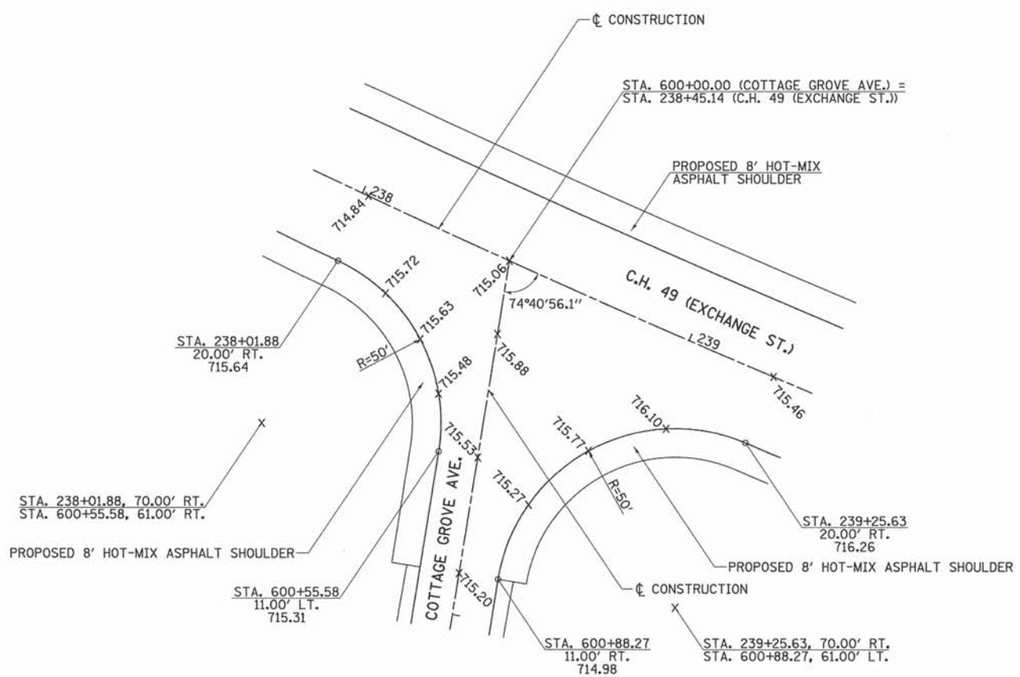
Hutchison Engineering, Inc.
1801 West Lafayette
PO Box 820
Jacksonville, Illinois 62651
PHONE : (217)245-7164 FAX (217)243-0468
ILLINOIS PROFESSIONAL DESIGN
FIRM NO. 184-000825

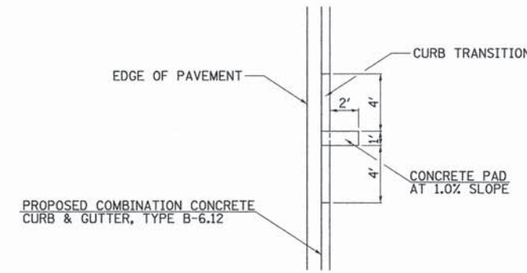
WILL COUNTY HIGHWAY DEPT.
PLAT OF HIGHWAYS

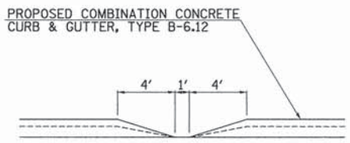
ROUTE C.H. 49 (EXCHANGE ST) (F.A.U. RTE. 1638)
SECTION 05-00086-14-FP
COUNTY WILL
JOB# R-55-001-97 PROJECT#
SEC 10, T 34 N, R 14 E OF 3RD P.M.
STA 500+00.00 TO STA 508+61.34
DRAWN CHECKED
SCALE: 1"=50' SHEET NO. 10 OF 14
CONTRACT NO. 63672

V:/2456/2456r009.dgn



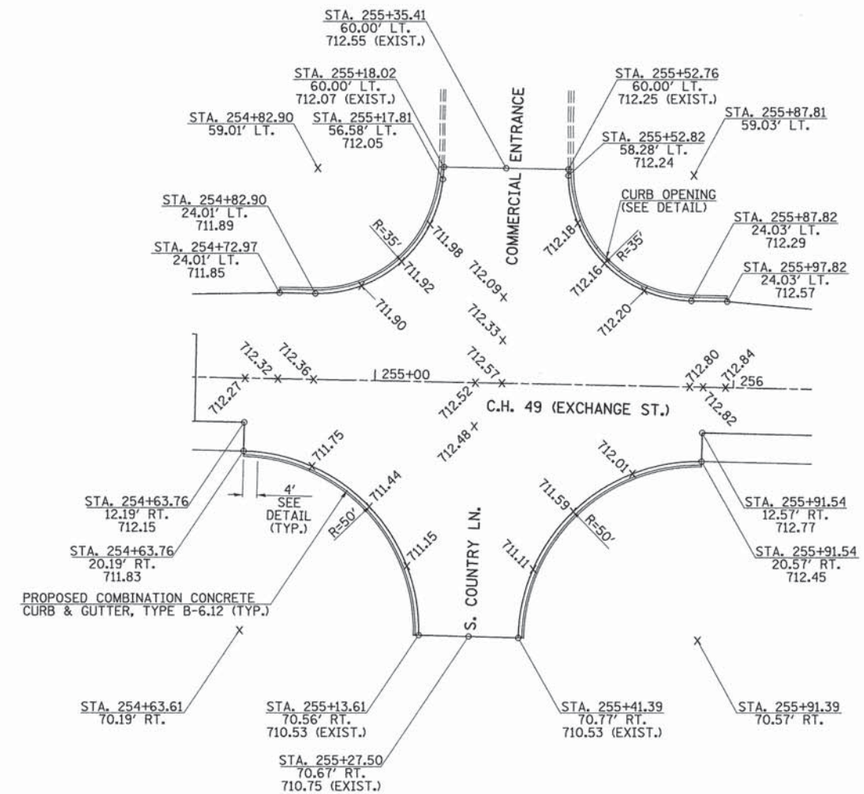


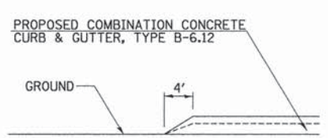




NOTE:
CURB OPENING TO BE INCLUDED IN PRICE
FOR COMBINATION CURB & GUTTER.

CURB OPENING DETAIL





DETAIL

NOTE:
SEE CURB OUTLET AT
COMMERCIAL ENTRANCE DETAIL.

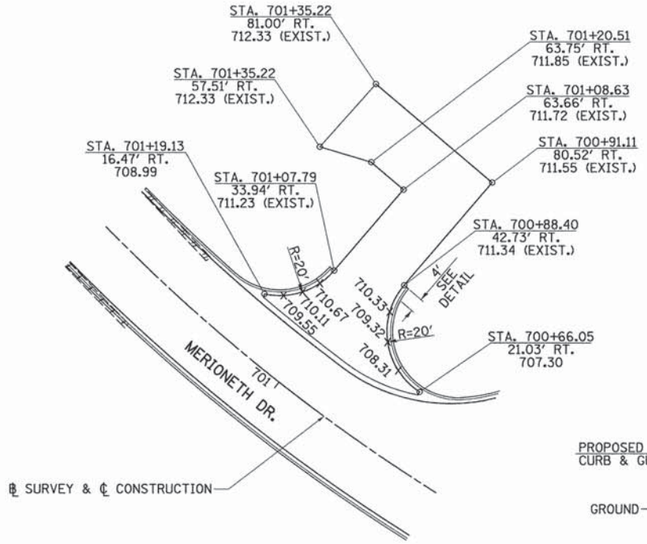
FILE NAME = v:\2456\2456h005.dgn	USER NAME = smountal	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

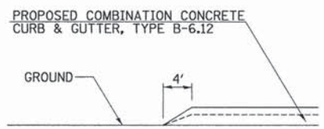
C.H. 49 (EXCHANGE ST.) WITH CRETE RD.,
COTTAGE GROVE AVE. & S. COUNTRY LN. INTERSECTION DETAILS

SCALE: 1"=20' | SHEET NO. 1 OF 3 SHEETS | STA. N/A | TO STA. N/A

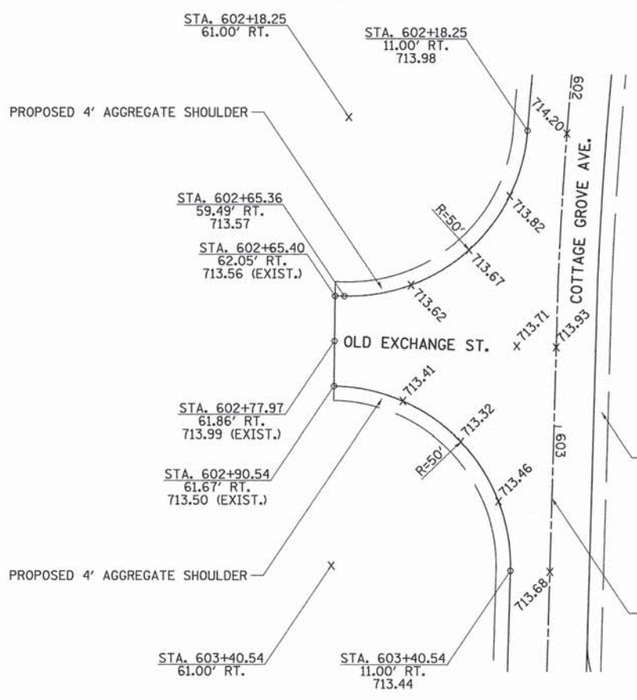
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	73
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

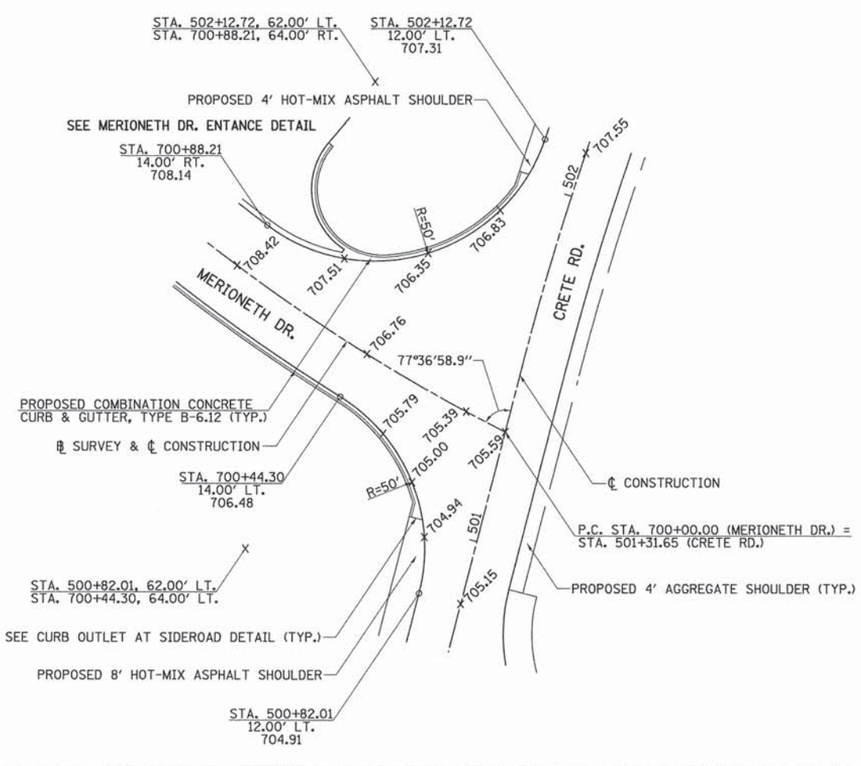


MERIONETH DR. ENTRANCE DETAIL
(STA. 701+00.0, RT.)



DETAIL





FILE NAME = v:\2456\2456h006.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

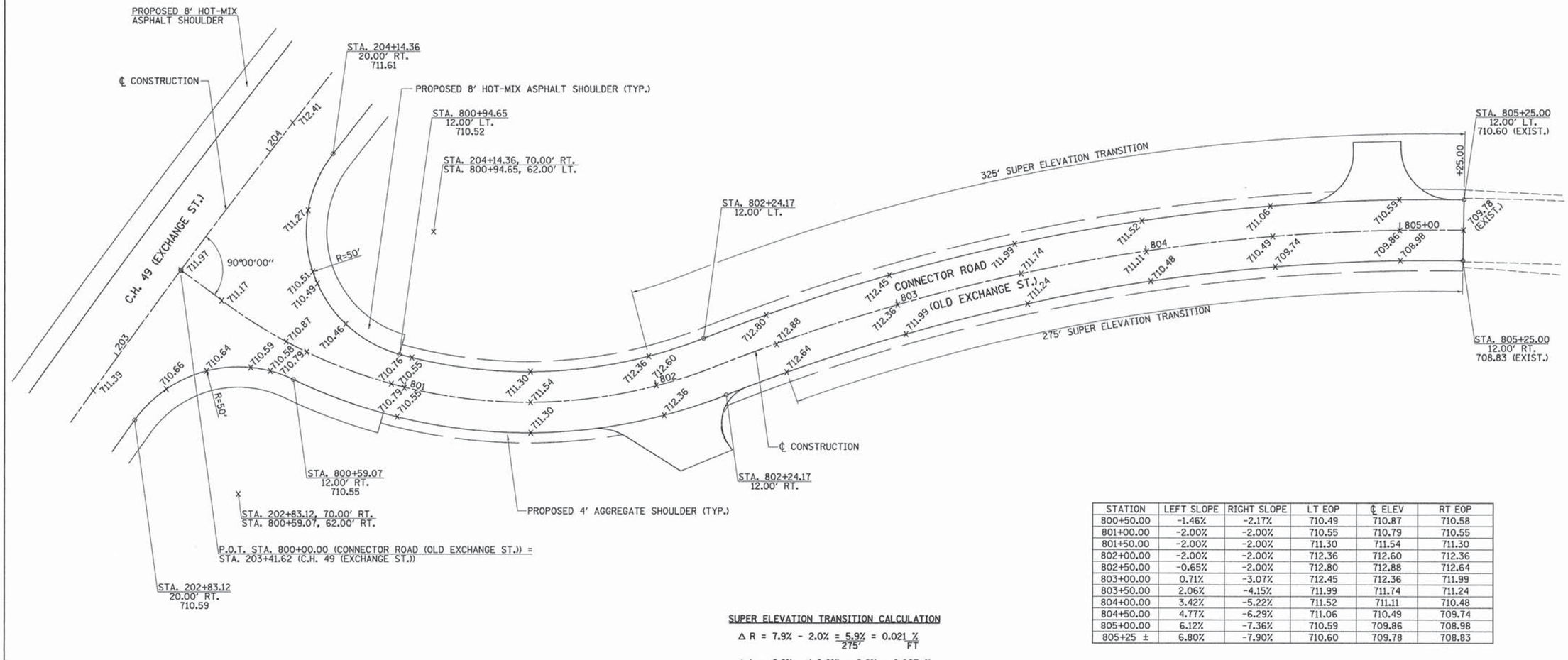
CRETE RD. WITH MERIONETH DR., MERIONETH DR. ENTRANCE & COTTAGE GROVE AVE. WITH OLD EXCHANGE ST.
INTERSECTION DETAILS

SCALE: 1"=20' | SHEET NO. 2 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	74
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROP. CURVE CUR800
PI STA. = 801+32.55
Δ = 58° 00′ 59″ (LT)
D = 28° 38′ 52″
R = 200.00′
T = 110.90′
L = 202.52′
E = 28.69′
e = SEE DETAIL BELOW
T.R. = SEE DETAIL BELOW
S.E. RUN = SEE DETAIL BELOW
P.C. STA. = 800+21.65
P.T. STA. = 802+24.17

PROP. CURVE CUR801
PI STA. = 803+76.74
Δ = 22° 34′ 22″ (RT)
D = 7° 29′ 41″
R = 764.48′
T = 152.57′
L = 301.18′
E = 15.08′
e = SEE DETAIL BELOW
T.R. = SEE DETAIL BELOW
S.E. RUN = SEE DETAIL BELOW
P.C. STA. = 802+24.17
P.T. STA. = 805+25.35



STATION	LEFT SLOPE	RIGHT SLOPE	LT EOP	℄ ELEV	RT EOP
800+50.00	-1.46%	-2.17%	710.49	710.87	710.58
801+00.00	-2.00%	-2.00%	710.55	710.79	710.55
801+50.00	-2.00%	-2.00%	711.30	711.54	711.30
802+00.00	-2.00%	-2.00%	712.36	712.60	712.36
802+50.00	-0.65%	-2.00%	712.80	712.88	712.64
803+00.00	0.71%	-3.07%	712.45	712.36	711.99
803+50.00	2.06%	-4.15%	711.99	711.74	711.24
804+00.00	3.42%	-5.22%	711.52	711.11	710.48
804+50.00	4.77%	-6.29%	711.06	710.49	709.74
805+00.00	6.12%	-7.36%	710.59	709.86	708.98
805+25 ±	6.80%	-7.90%	710.60	709.78	708.83

SUPER ELEVATION TRANSITION CALCULATION

$\Delta R = 7.9\% - 2.0\% = \frac{5.9\%}{275'} = 0.021\ \frac{\%}{FT}$

$\Delta L = 6.8\% - (-2.0\%) = \frac{8.8\%}{275'} = 0.027\ \frac{\%}{FT}$

FILE NAME = V:\2456\2456h008.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.000 ′ / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

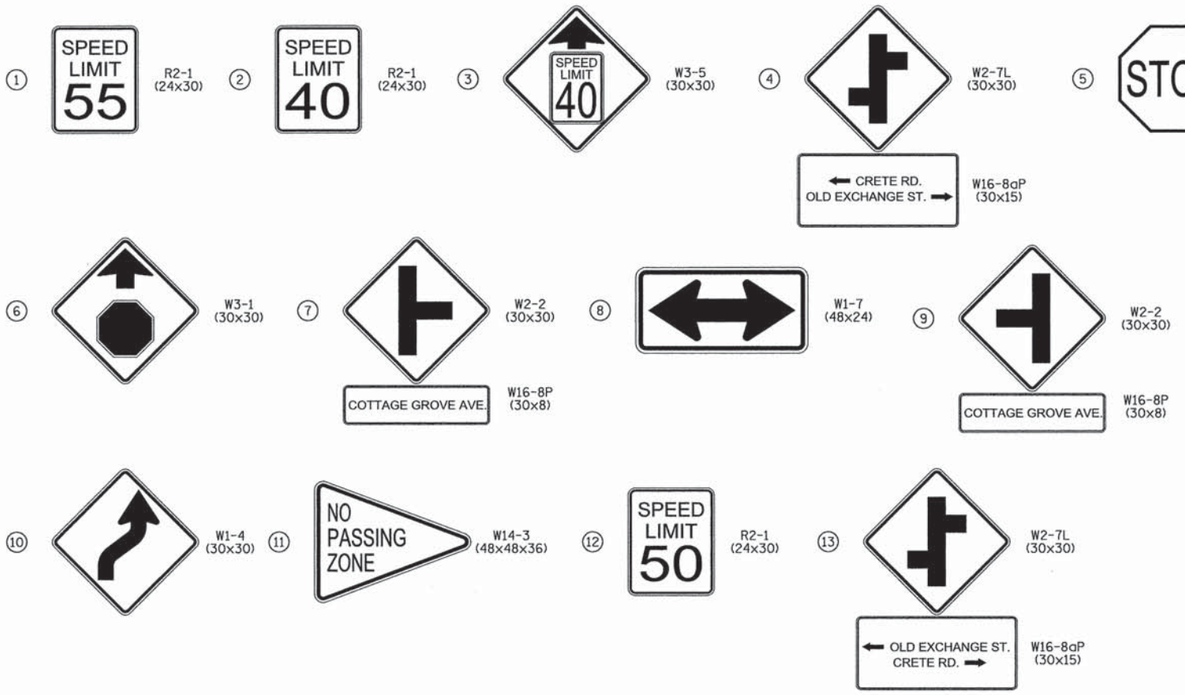
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

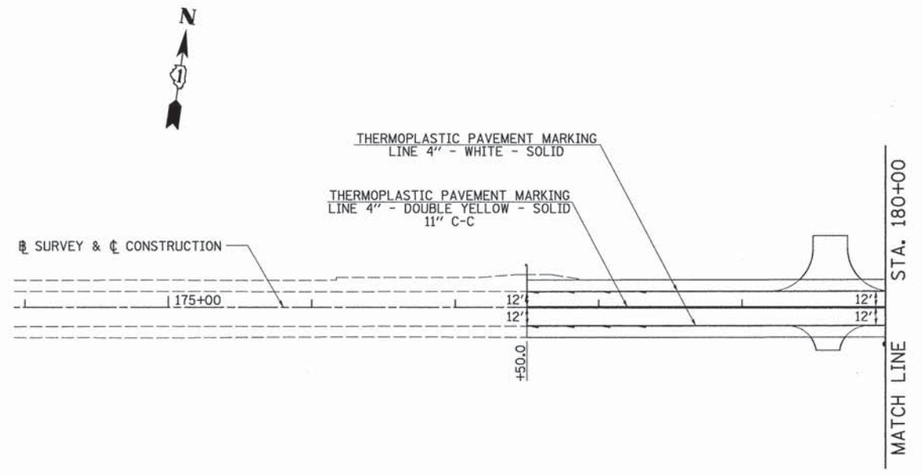
CONNECTOR ROAD (OLD EXCHANGE ST.) DETAIL

SCALE: 1″=20′ | SHEET NO. 3 OF 3 SHEETS | STA. 800+00 TO STA. 805+25.35

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	75
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN LEGEND





NOTES:

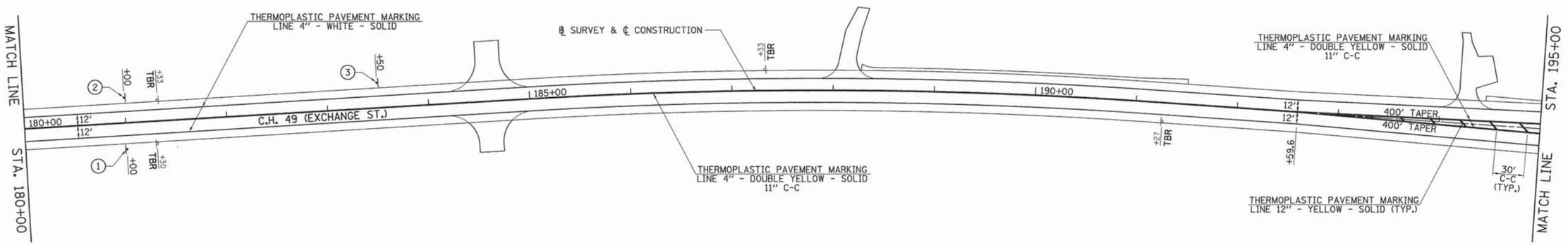
FOR DISTRICT 1 TYPICAL PAVEMENT MARKINGS AND TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS, SEE DETAILS.

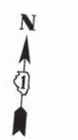
CONTRACTOR SHALL AFFIX A 3" X 30" REFLECTIVE STRIP MATCHING THE PRIMARY SIGN FACE (HI-PRISMATIC) TO THE SIGN POST. THIS WORK SHALL BE INCLUDED IN THE COST OF THE SIGN PANEL.

LOCATION OF SIGN ASSEMBLIES TO BE RELOCATED SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

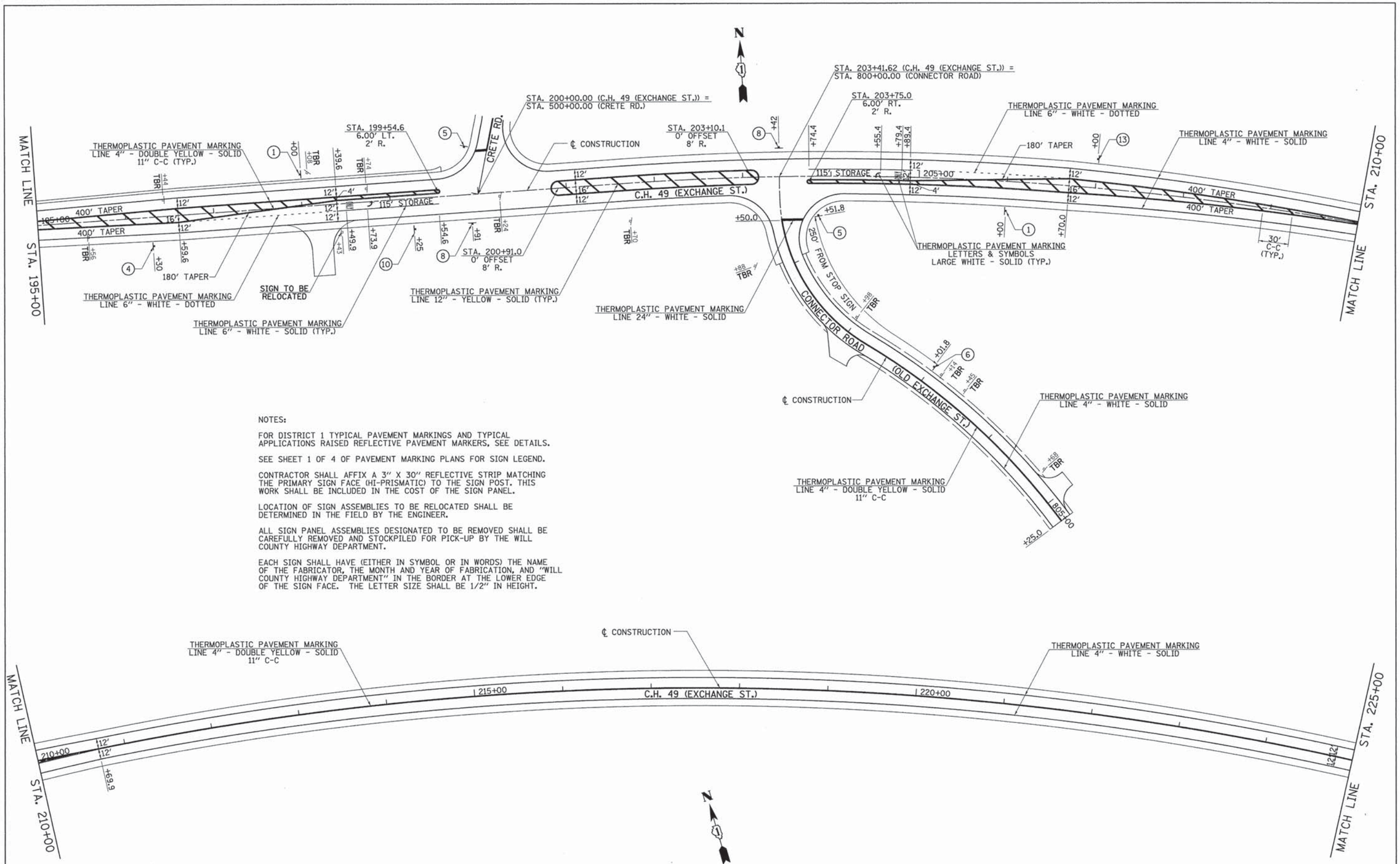
ALL SIGN PANEL ASSEMBLIES DESIGNATED TO BE REMOVED SHALL BE CAREFULLY REMOVED AND STOCKPILED FOR PICK-UP BY THE WILL COUNTY HIGHWAY DEPARTMENT.

EACH SIGN SHALL HAVE (EITHER IN SYMBOL OR IN WORDS) THE NAME OF THE FABRICATOR, THE MONTH AND YEAR OF FABRICATION, AND "WILL COUNTY HIGHWAY DEPARTMENT" IN THE BORDER AT THE LOWER EDGE OF THE SIGN FACE. THE LETTER SIZE SHALL BE 1/2" IN HEIGHT.





FILE NAME = v:\2456\2456m001.dgn	USER NAME = smountsl	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**C.H. 49 (EXCHANGE ST.) PAVEMENT MARKING & SIGNING PLANS**			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					1638	05-00086-14-FP	WILL	124	76
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -							CONTRACT NO. 63672		
	PLOT DATE = 8/15/2013	DATE -	REVISED -		SCALE: 1"=50'	SHEET NO. 1 OF 4 SHEETS	STA. 170+00 TO STA. 195+00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

FOR DISTRICT 1 TYPICAL PAVEMENT MARKINGS AND TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS, SEE DETAILS.

SEE SHEET 1 OF 4 OF PAVEMENT MARKING PLANS FOR SIGN LEGEND.

CONTRACTOR SHALL AFFIX A 3" X 30" REFLECTIVE STRIP MATCHING THE PRIMARY SIGN FACE (HI-PRISMATIC) TO THE SIGN POST. THIS WORK SHALL BE INCLUDED IN THE COST OF THE SIGN PANEL.

LOCATION OF SIGN ASSEMBLIES TO BE RELOCATED SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

ALL SIGN PANEL ASSEMBLIES DESIGNATED TO BE REMOVED SHALL BE CAREFULLY REMOVED AND STOCKPILED FOR PICK-UP BY THE WILL COUNTY HIGHWAY DEPARTMENT.

EACH SIGN SHALL HAVE (EITHER IN SYMBOL OR IN WORDS) THE NAME OF THE FABRICATOR, THE MONTH AND YEAR OF FABRICATION, AND "WILL COUNTY HIGHWAY DEPARTMENT" IN THE BORDER AT THE LOWER EDGE OF THE SIGN FACE. THE LETTER SIZE SHALL BE 1/2" IN HEIGHT.

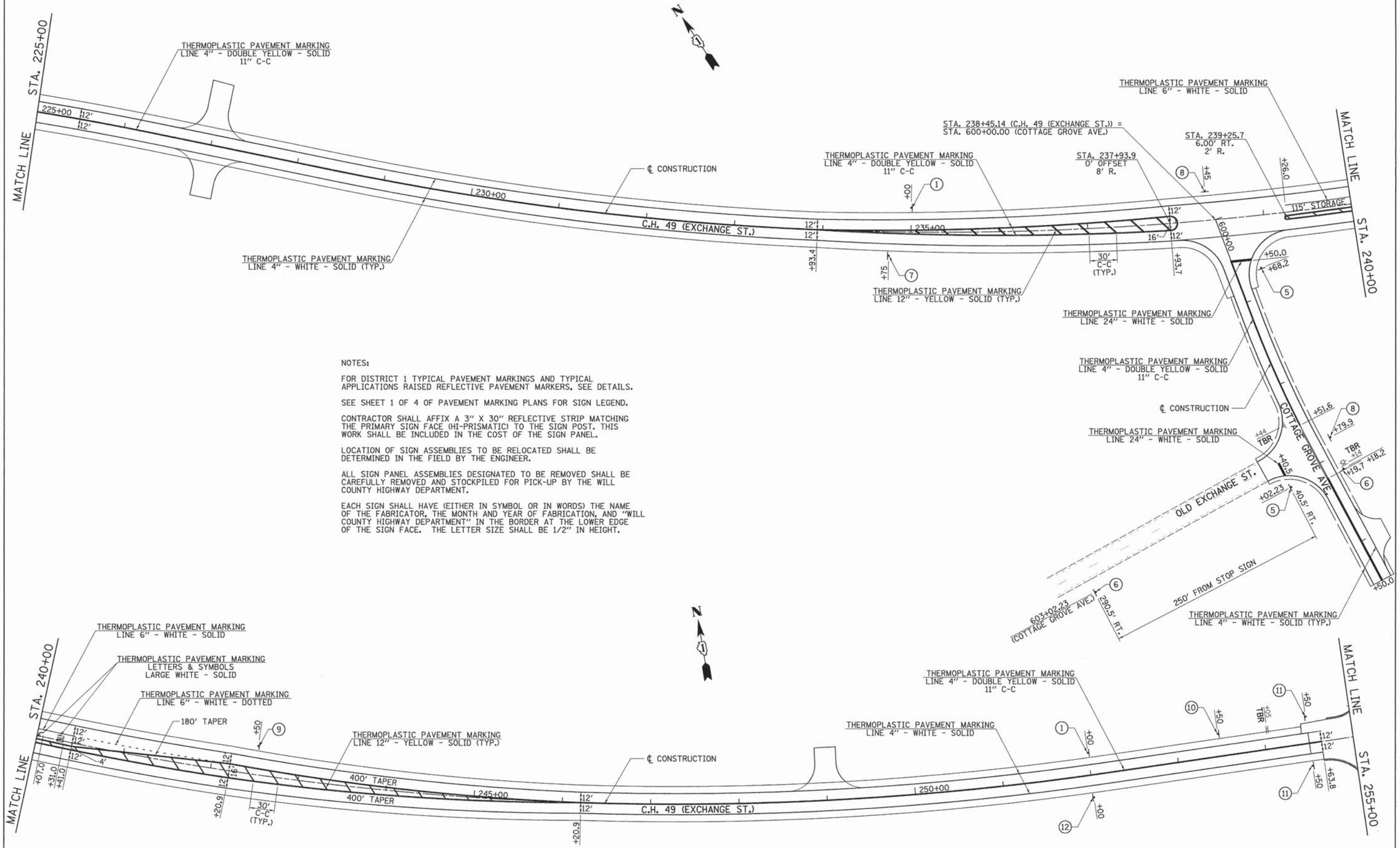
FILE NAME = v:\2456\2456m002.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.) & CONNECTOR ROAD (OLD EXCHANGE ST.)
PAVEMENT MARKING & SIGNING PLANS

SCALE: 1"=50' | SHEET NO. 2 OF 4 SHEETS | STA. 195+00 TO STA. 225+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	77
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

FOR DISTRICT 1 TYPICAL PAVEMENT MARKINGS AND TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS, SEE DETAILS.

SEE SHEET 1 OF 4 OF PAVEMENT MARKING PLANS FOR SIGN LEGEND.

CONTRACTOR SHALL AFFIX A 3" X 30" REFLECTIVE STRIP MATCHING THE PRIMARY SIGN FACE (HI-PRISMATIC) TO THE SIGN POST. THIS WORK SHALL BE INCLUDED IN THE COST OF THE SIGN PANEL.

LOCATION OF SIGN ASSEMBLIES TO BE RELOCATED SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

ALL SIGN PANEL ASSEMBLIES DESIGNATED TO BE REMOVED SHALL BE CAREFULLY REMOVED AND STOCKPILED FOR PICK-UP BY THE WILL COUNTY HIGHWAY DEPARTMENT.

EACH SIGN SHALL HAVE (EITHER IN SYMBOL OR IN WORDS) THE NAME OF THE FABRICATOR, THE MONTH AND YEAR OF FABRICATION, AND "WILL COUNTY HIGHWAY DEPARTMENT" IN THE BORDER AT THE LOWER EDGE OF THE SIGN FACE. THE LETTER SIZE SHALL BE 1/2" IN HEIGHT.

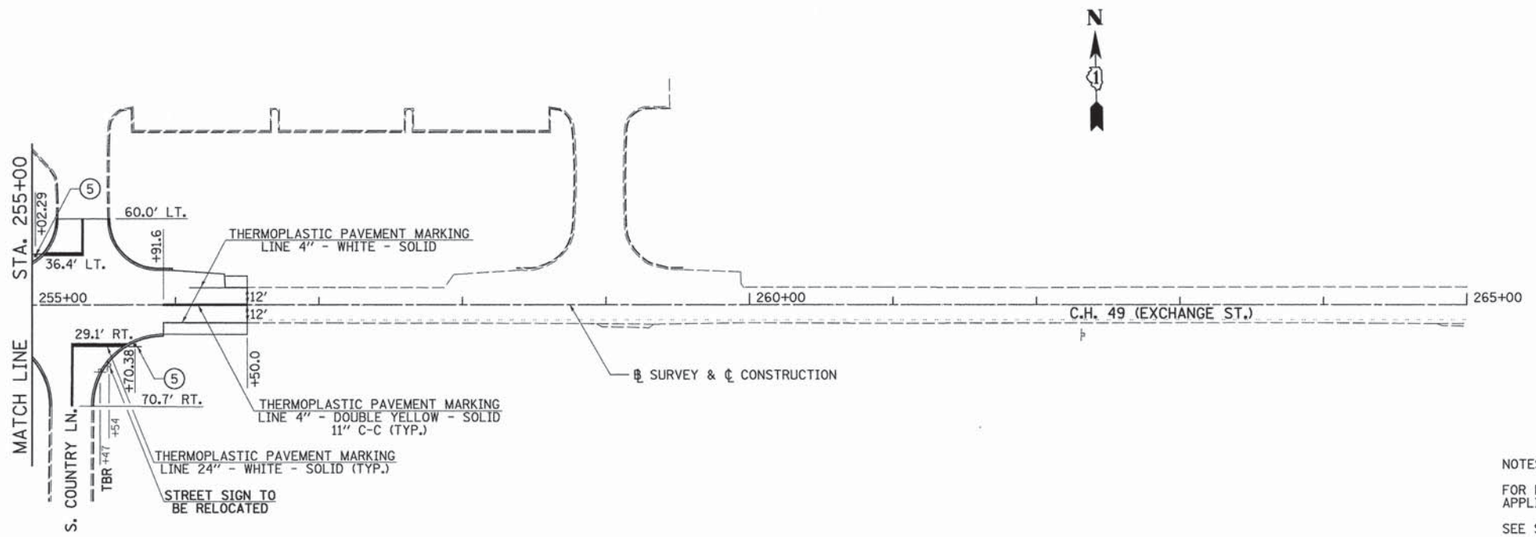
FILE NAME = v:\2456\2456m003.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

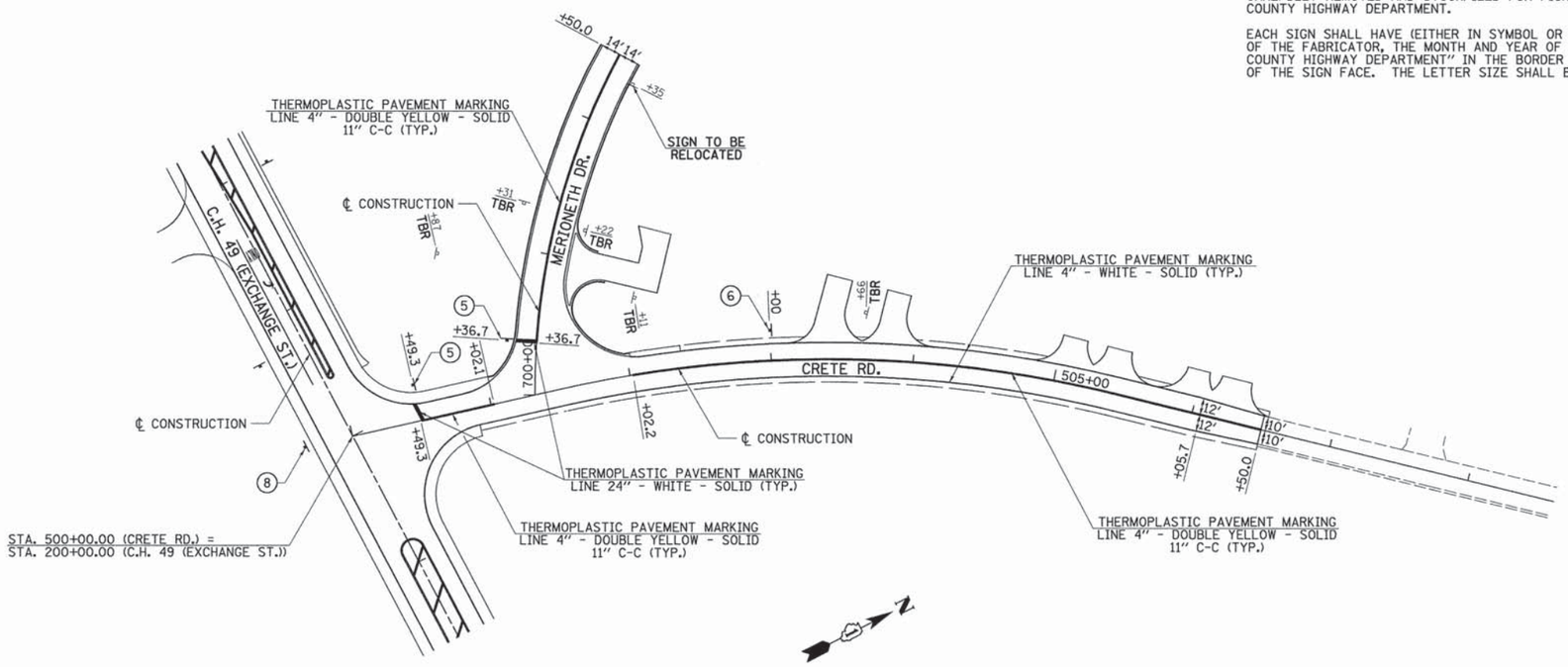
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.) & COTTAGE GROVE AVE.
PAVEMENT MARKING & SIGNING PLANS

SCALE: 1"=50' | SHEET NO. 3 OF 4 SHEETS | STA. 225+00 TO STA. 255+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	78
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





NOTES:

FOR DISTRICT 1 TYPICAL PAVEMENT MARKINGS AND TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS, SEE DETAILS.

SEE SHEET 1 OF 4 OF PAVEMENT MARKING PLANS FOR SIGN LEGEND.

CONTRACTOR SHALL AFFIX A 3" X 30" REFLECTIVE STRIP MATCHING THE PRIMARY SIGN FACE (HI-PRISMATIC) TO THE SIGN POST. THIS WORK SHALL BE INCLUDED IN THE COST OF THE SIGN PANEL.

LOCATION OF SIGN ASSEMBLIES TO BE RELOCATED SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

ALL SIGN PANEL ASSEMBLIES DESIGNATED TO BE REMOVED SHALL BE CAREFULLY REMOVED AND STOCKPILED FOR PICK-UP BY THE WILL COUNTY HIGHWAY DEPARTMENT.

EACH SIGN SHALL HAVE (EITHER IN SYMBOL OR IN WORDS) THE NAME OF THE FABRICATOR, THE MONTH AND YEAR OF FABRICATION, AND "WILL COUNTY HIGHWAY DEPARTMENT" IN THE BORDER AT THE LOWER EDGE OF THE SIGN FACE. THE LETTER SIZE SHALL BE 1/2" IN HEIGHT.

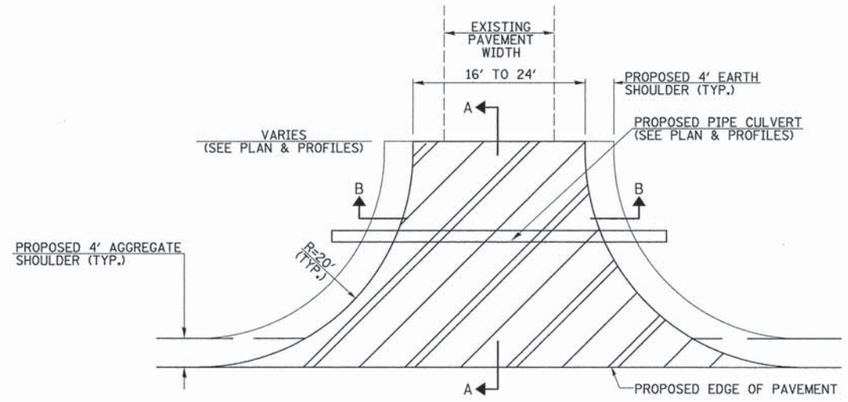
FILE NAME = v:\2456\2456m004.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.), CRETE RD. & MERIONETH DR.
PAVEMENT MARKING & SIGNING PLANS

SCALE: 1"=50' | SHEET NO. 4 OF 4 SHEETS | STA. 255+00 TO STA. 265+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	79
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



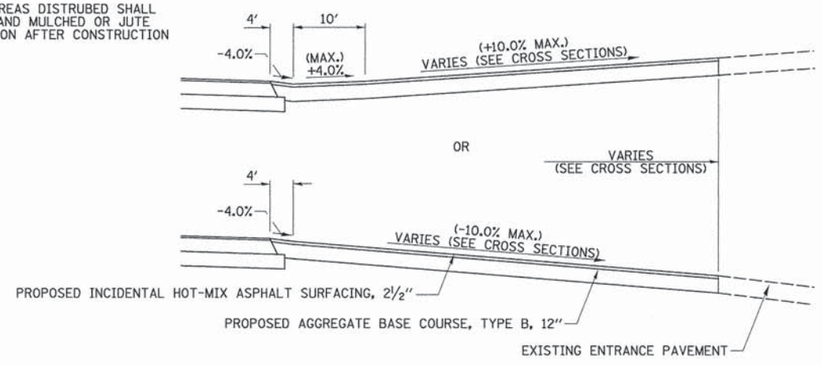
PLAN

NOTES:

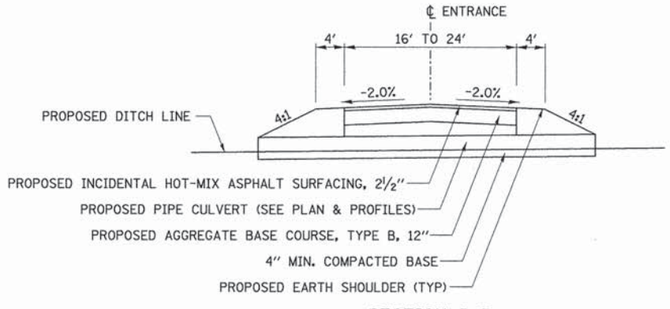
ALL CONSTRUCTION TO BE DONE ACCORDING TO STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

CUT OUT DIRT ON SHOULDER. INSTALL 12" AGGREGATE BASE COURSE AND PAVE WITH 2½" HOT-MIX ASPHALT SURFACE COURSE.

ALL GROUND AREAS DISTRUBED SHALL BE RESEEDED AND MULCHED OR JUTE MATTED AS SOON AFTER CONSTRUCTION AS POSSIBLE.

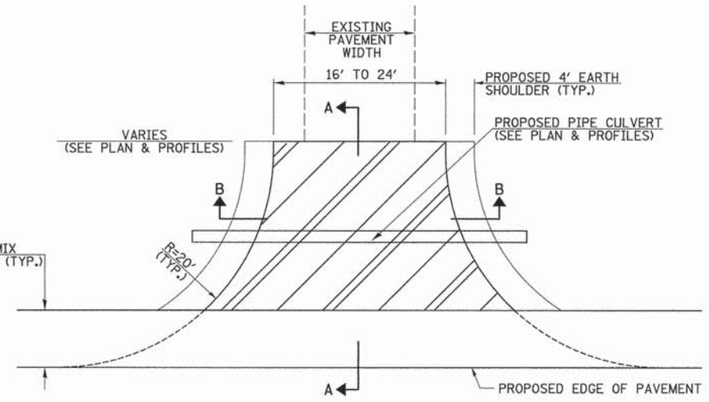


SECTION A-A



SECTION B-B

PRIVATE ENTRANCE (PE) WITH AGGREGATE SHOULDERS



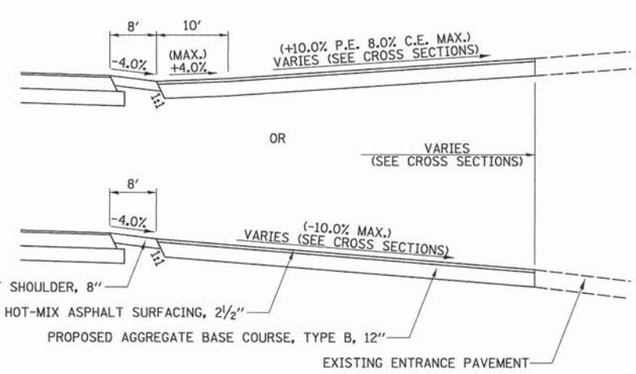
PLAN

NOTES:

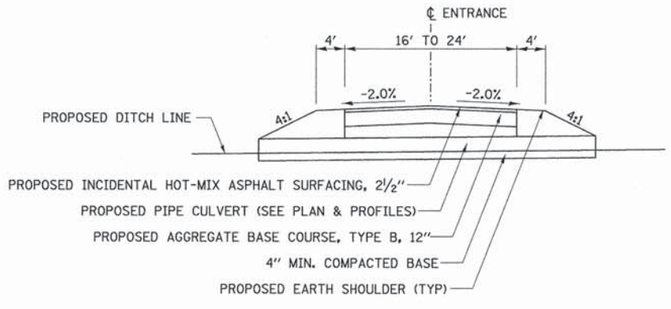
ALL CONSTRUCTION TO BE DONE ACCORDING TO STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

CUT OUT DIRT ON SHOULDER. INSTALL 12" AGGREGATE BASE COURSE AND PAVE WITH 2½" HOT-MIX ASPHALT SURFACE COURSE.

ALL GROUND AREAS DISTRUBED SHALL BE RESEEDED AND MULCHED OR JUTE MATTED AS SOON AFTER CONSTRUCTION AS POSSIBLE.



SECTION A-A



SECTION B-B

PRIVATE ENTRANCE (PE) DETAILS WITH HOT-MIX ASPHALT SHOULDERS

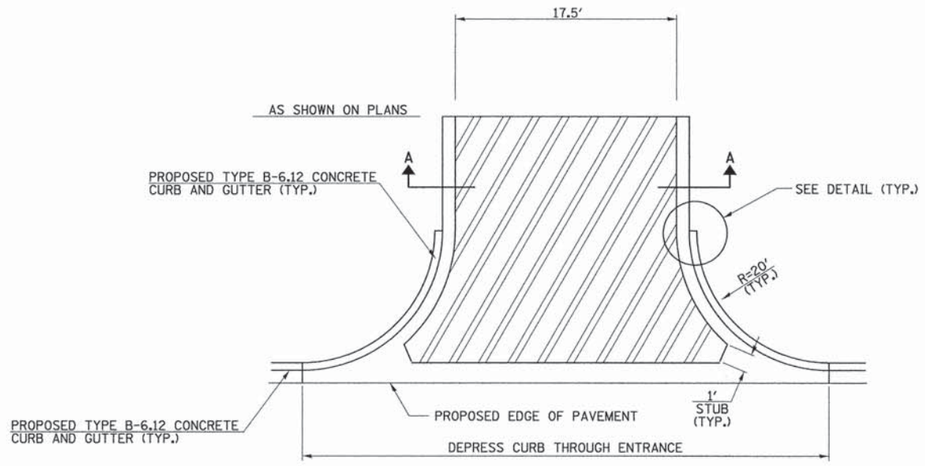
FILE NAME = V:\2456\2456h002.dgn	USER NAME = smountel	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.), ENTRANCE DETAILS

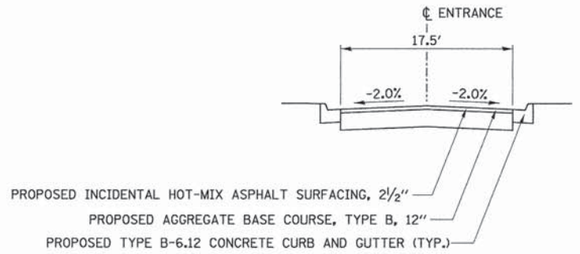
SCALE: N/A | SHEET NO. 1 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	80
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

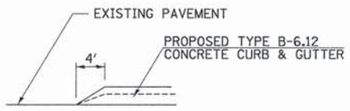


PLAN

ALSO SEE MERIONETH DR. INTERSECTION DETAIL



SECTION A-A



DETAIL

NOTES:

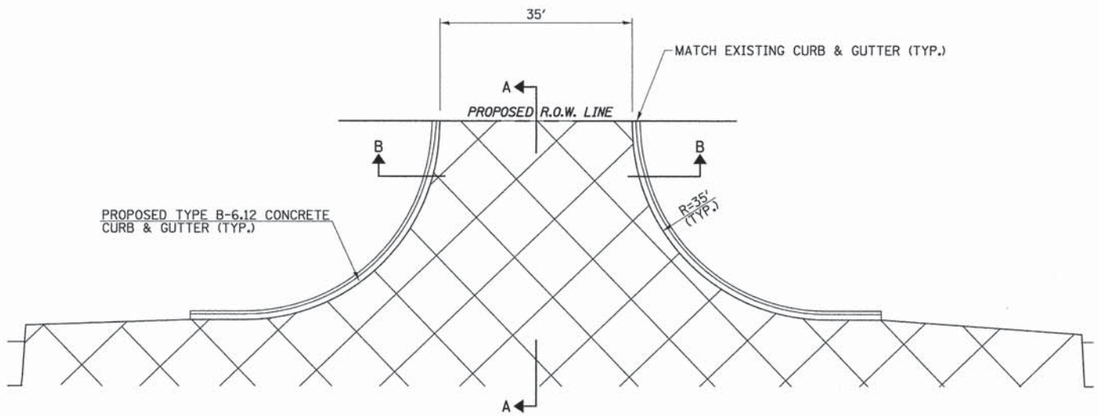
ALL CONSTRUCTION TO BE DONE ACCORDING TO STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

CUT OUT DIRT ON SHOULDER AND INSTALL 12" AGGREGATE BASE COURSE AND PAVE WITH 2½" HOT-MIX ASPHALT SURFACE COURSE.

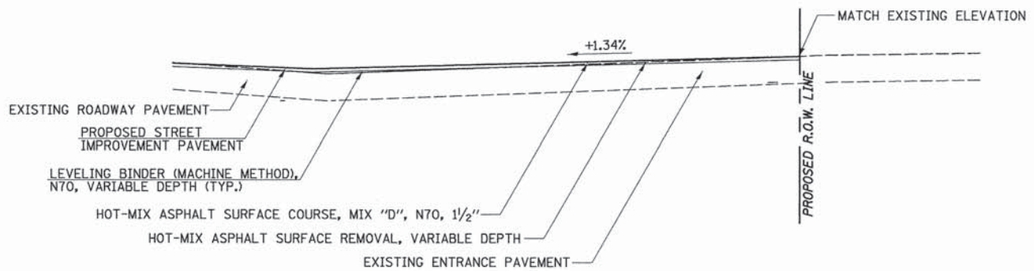
ALL GROUND AREAS DISTRUBED SHALL BE RESEEDED AND MULCHED OR JUTE MATTED AS SOON AFTER CONSTRUCTION AS POSSIBLE.

PRIVATE ENTRANCE (PE) WITH CURB AND GUTTER

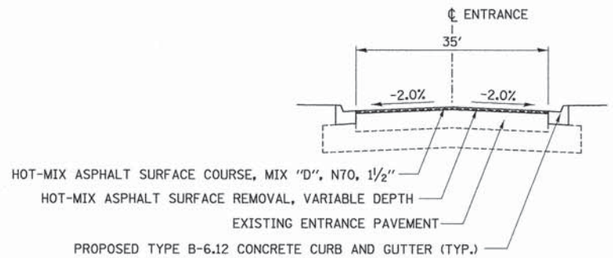
(STA. 701+00.0, RT. (MERIONETH DR.))



PLAN



SECTION A-A



SECTION B-B

NOTES:

ALL CONSTRUCTION TO BE DONE ACCORDING TO STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

ALL GROUND AREAS DISTRUBED SHALL BE RESEEDED AND MULCHED OR JUTE MATTED AS SOON AFTER CONSTRUCTION AS POSSIBLE.

COMMERCIAL ENTRANCE (CE) WITH CURB AND GUTTER

(STA. 255+35.4, LT. (C.H. 49 (EXCHANGE ST.)))

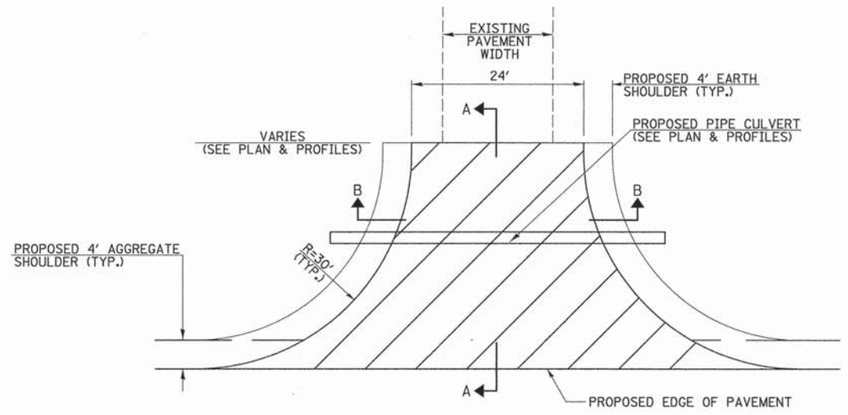
FILE NAME = V:\2456\2456h003.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

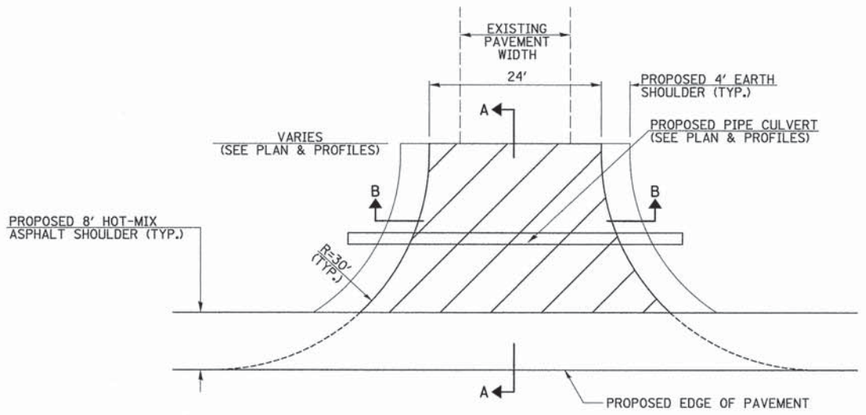
C.H. 49 (EXCHANGE ST.), ENTRANCE DETAILS

SCALE: N/A | SHEET NO. 2 OF 3 SHEETS | STA. N/A | TO STA. N/A

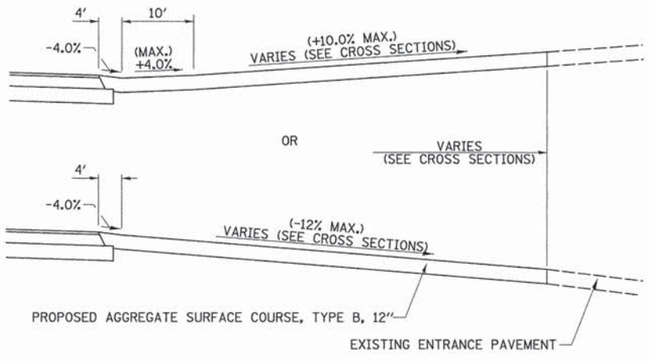
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	81
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



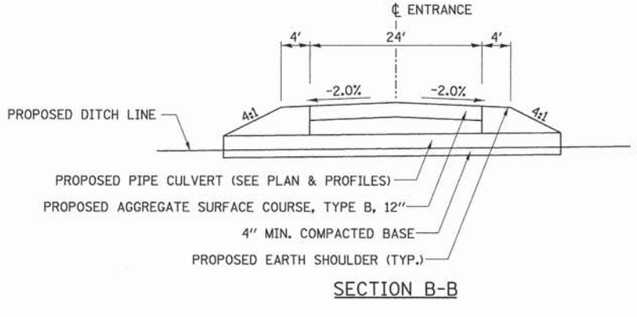
PLAN



PLAN



SECTION A-A



SECTION B-B

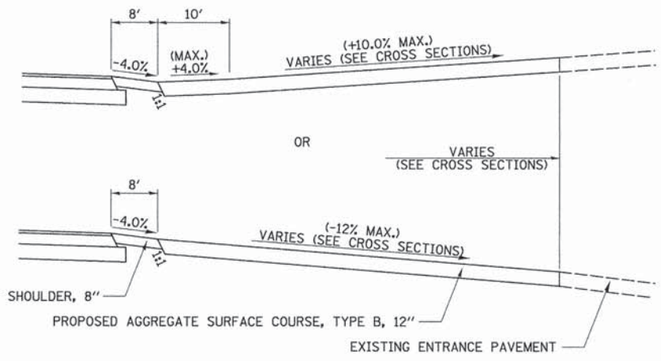
FIELD ENTRANCE (FE) WITH AGGREGATE SHOULDER

NOTES:

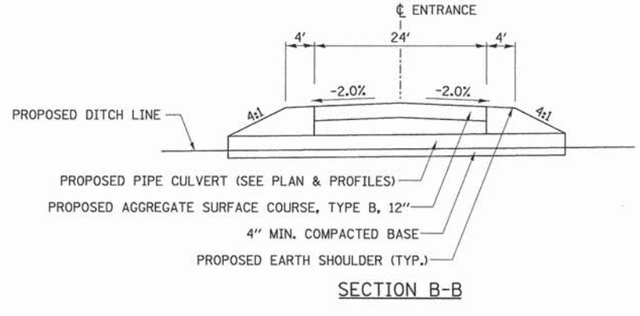
ALL CONSTRUCTION TO BE DONE ACCORDING TO STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

CUT OUT DIRT ON SHOULDER AND INSTALL 12" AGGREGATE SURFACE COURSE.

ALL GROUND AREAS DISTRUBED SHALL BE RESEEDED AND MULCHED OR JUTE MATTED AS SOON AFTER CONSTRUCTION AS POSSIBLE.



SECTION A-A



SECTION B-B

FIELD ENTRANCE (FE) DETAILS WITH HOT-MIX ASPHALT SHOULDERS

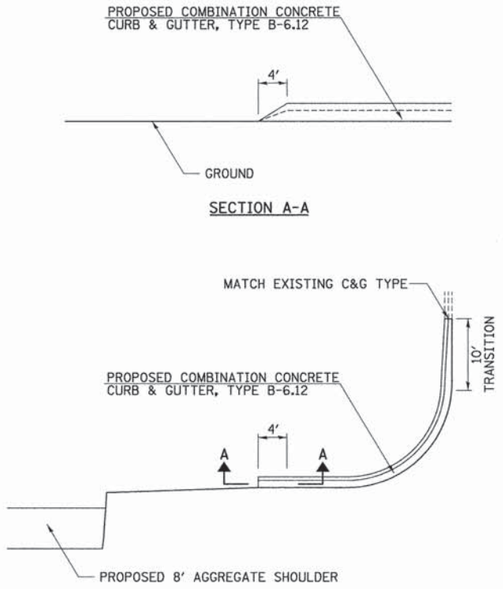
FILE NAME = V:\2456\2456h004.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

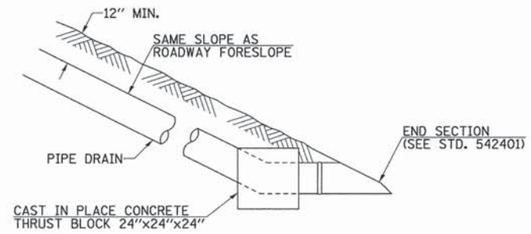
C.H. 49 (EXCHANGE ST.), ENTRANCE DETAILS

SCALE: N/A | SHEET NO. 3 OF 3 SHEETS | STA. N/A | TO STA. N/A

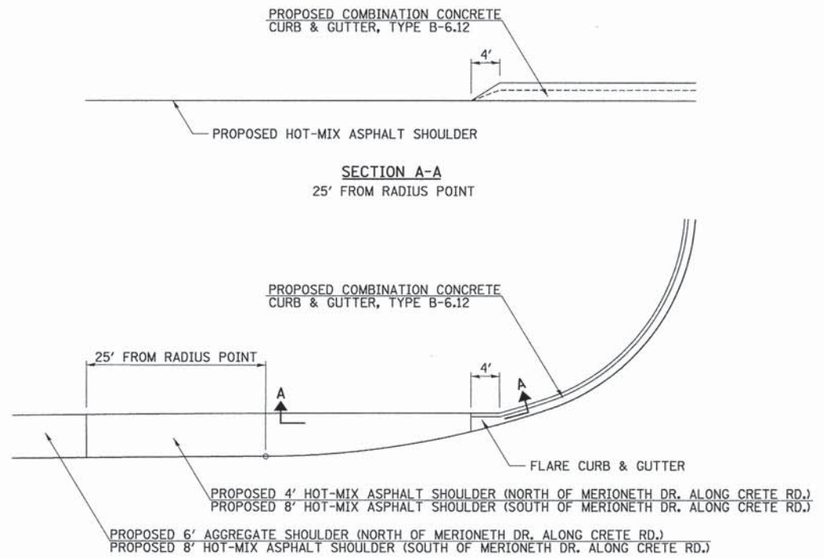
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	82
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



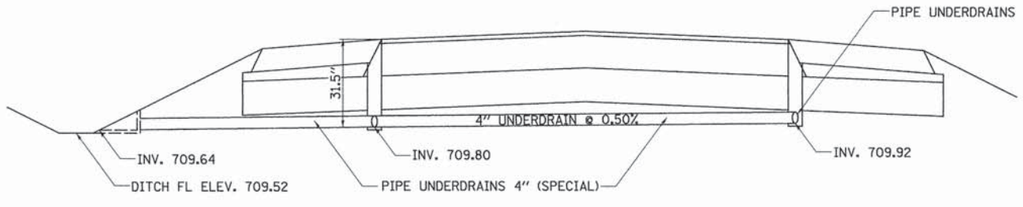
CURB OUTLET AT COMMERCIAL ENTRANCE DETAIL



GUTTER OUTLET DETAIL



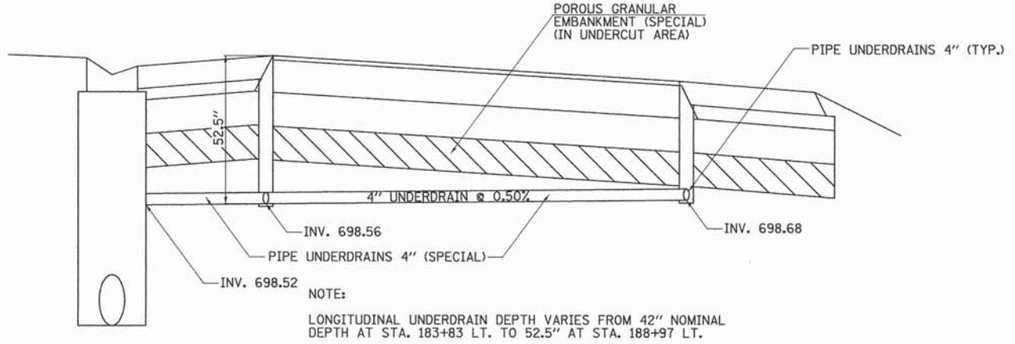
CURB OUTLET AT SIDEROAD DETAIL



NOTE:

LONGITUDINAL UNDERDRAIN DEPTH VARIES FROM 30" NOMINAL DEPTH AT STA. 178+50 LT. TO 31.5" AT STA. 177+50 LT.

STA. 177+50



NOTE:

LONGITUDINAL UNDERDRAIN DEPTH VARIES FROM 42" NOMINAL DEPTH AT STA. 183+83 LT. TO 52.5" AT STA. 188+97 LT.

STA. 188+97

PIPE UNDERDRAIN
SPECIAL OUTLET DETAILS

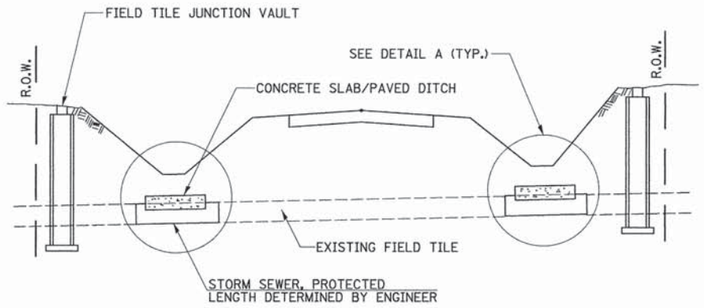
FILE NAME = V:\2456\2456h001.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

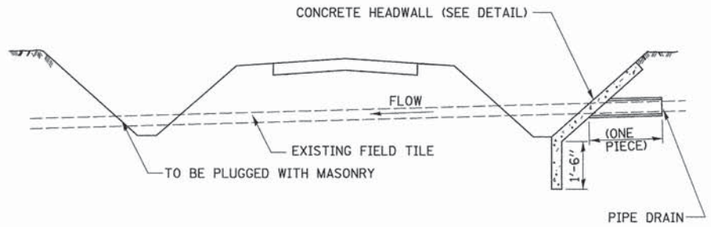
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.), SPECIAL DETAILS

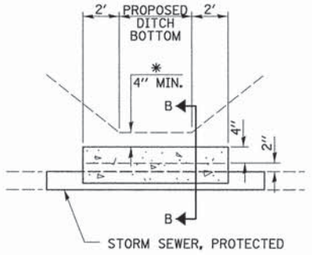
SCALE: N/A | SHEET NO. 1 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	83
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





FIELD TILE REPLACEMENT

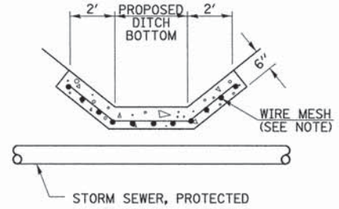


* IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL C.

DETAIL A
NO SCALE

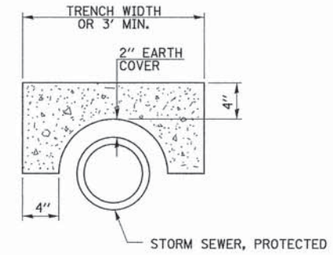
NOTES:

1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE."
3. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.



DETAIL C
NO SCALE

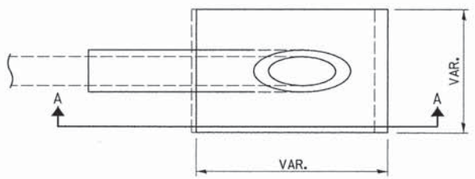
ALTERNATE MATERIALS FOR WALLS	T
PRECAST REINFORCED CONCRETE RISERS	4"
CONCRETE MASONRY UNIT	5"
MONOLITHIC CONCRETE	6"
BUILDING BRICK, GRADE SW FROM CLAY OR SHALE	8"
CONCRETE BUILDING BRICK, GRADE A	8"



SECTION B-B

NOTES:

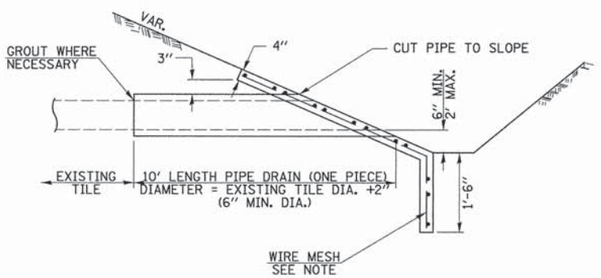
1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.



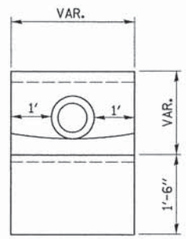
PLAN

NOTES:

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

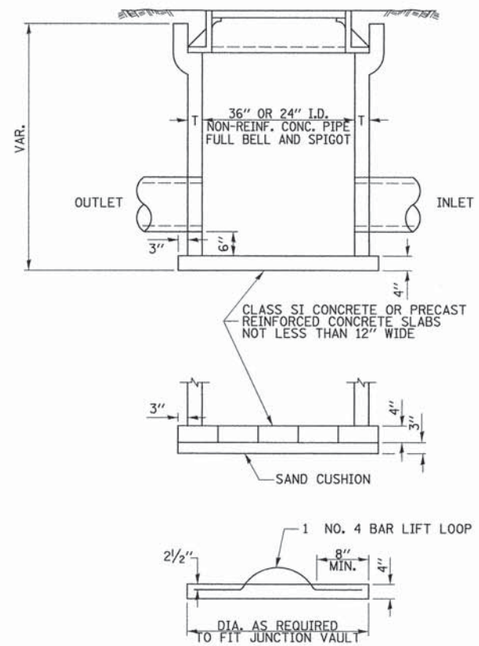


SECTION A-A

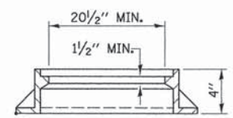


END VIEW

CLASS SI CONCRETE HEADWALLS



± 145°



SECTION A-A

FIELD TILE JUNCTION VAULT

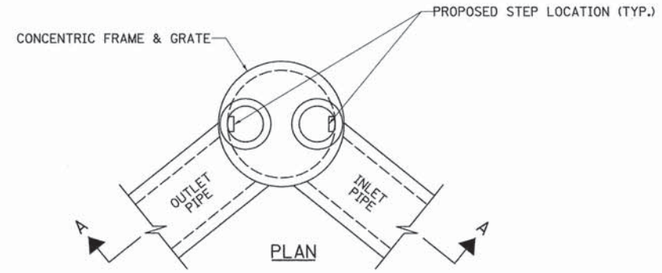
FILE NAME = V:\2456\2456h007.dgn	USER NAME = smountal	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.), SPECIAL DETAILS

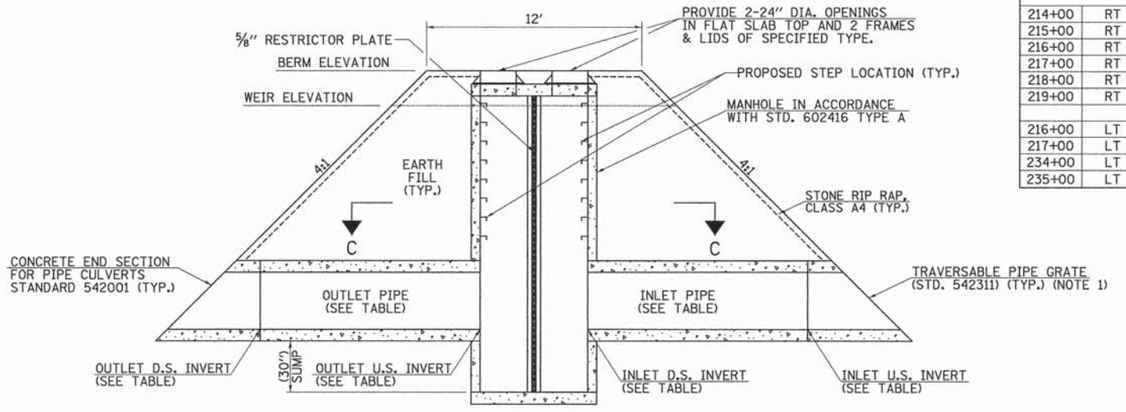
SCALE: N/A | SHEET NO. 2 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	84
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

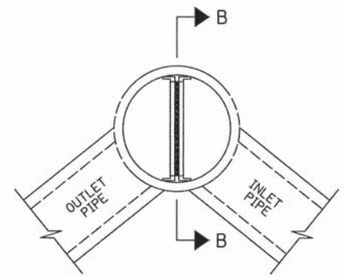


PLAN

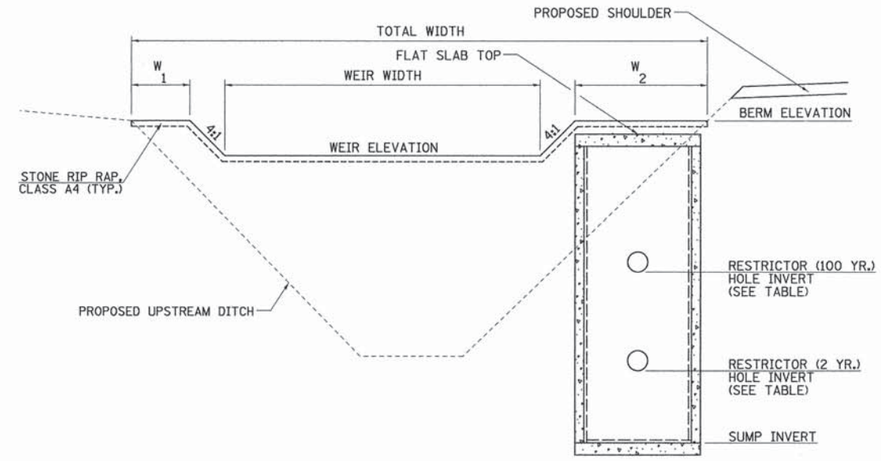
DITCH WIDTH TABLE		
STA.	SIDE	BOTTOM WIDTH
C.H. 49 (EXCHANGE ST.)		
203+90	RT	2
204+00	RT	4
205+00	RT	8
206+00	RT	12
208+00	RT	12
209+00	RT	2
214+00	RT	2
215+00	RT	12
216+00	RT	12
217+00	RT	10
218+00	RT	6
219+00	RT	2
216+00	LT	2
217+00	LT	10
234+00	LT	10
235+00	LT	2



SECTION A-A



SECTION C-C



SECTION B-B

NOTE:

1. PIPE GRATES SHALL BE ACCORDING TO STANDARD 542311 EXCEPT PIPE GRATE SHALL BE MODIFIED FOR THE END SECTION SIZE.

STATION	OFFSET	2 YR. RESTRICTOR HOLE DIAMETER (IN.)	2 YR. RESTRICTOR HOLE INVERT	100 YR. RESTRICTOR HOLE DIAMETER (IN.)	100 YR. RESTRICTOR HOLE INVERT	INLET PIPE DIAMETER (IN.)	INLET PIPE LENGTH (FT.)	INLET INVERT UPSTREAM	INLET INVERT DOWNSTREAM	INLET PIPE SLOPE (FT./FT.)	OUTLET PIPE DIAMETER (IN.)	OUTLET PIPE LENGTH (FT.)	OUTLET INVERT UPSTREAM	OUTLET INVERT DOWNSTREAM	OUTLET PIPE SLOPE (FT./FT.)	WEIR ELEVATION	WEIR WIDTH (FT.)	BERM ELEVATION	W 1 (FT.)	W 2 (FT.)	TOTAL WIDTH (FT.)
208+15	34.73 RT	4	704.69	5	706.15	15	8	704.78	704.73	0.0068	15	8	704.65	704.60	0.0068	707.80	25	708.76	5.00	10.65	48.33
214+85	29.06 RT	4	704.25	4	705.70	15	6	704.38	704.31	0.012	15	6	704.18	704.11	0.012	707.14	20	707.53	3.00	10.13	36.25
217+00	29.00 LT	4.6	704.39	8.3	706.75	15	24	704.45	704.39	0.0023	15	24	704.39	704.33	0.0023	708.15	30	709.50	5.00	7.84	53.64

DRAINAGE CONTROL STRUCTURE

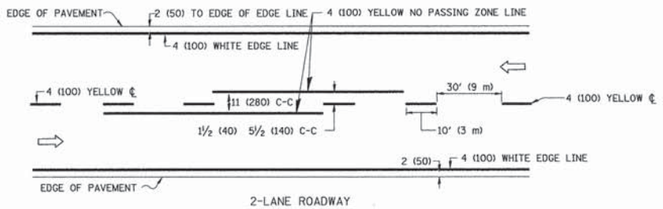
FILE NAME = v:\2456\2456h009.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

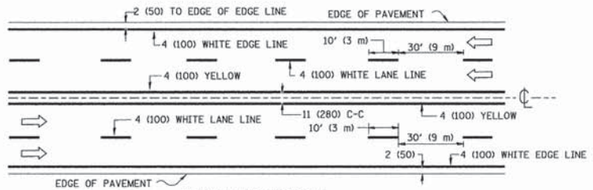
C.H. 49 (EXCHANGE ST.), SPECIAL DETAILS

SCALE: N/A | SHEET NO. 3 OF 3 SHEETS | STA. N/A | TO STA. N/A

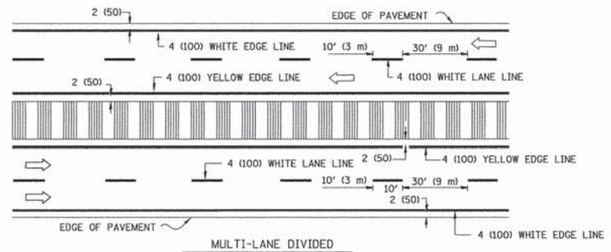
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	85
		CONTRACT NO. 63672		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



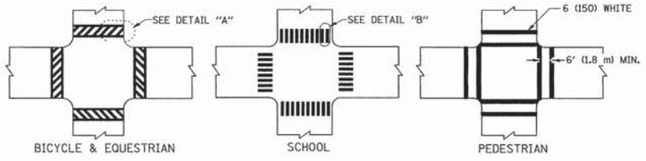
MULTI-LANE UNDIVIDED

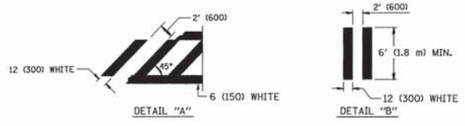


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

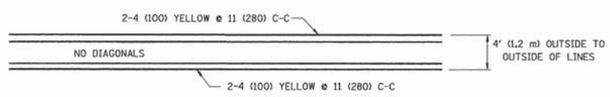
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

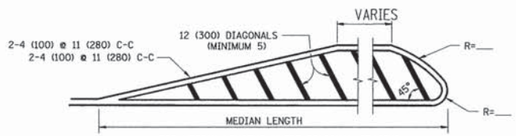




TYPICAL CROSSWALK MARKING



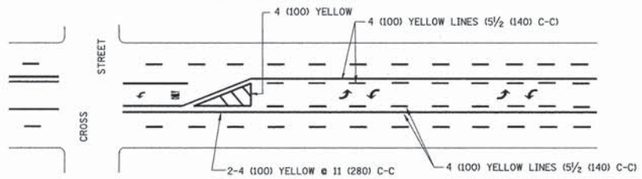
4' (1.2 m) WIDE MEDIANS ONLY



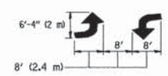
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

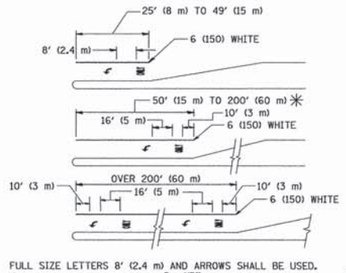


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

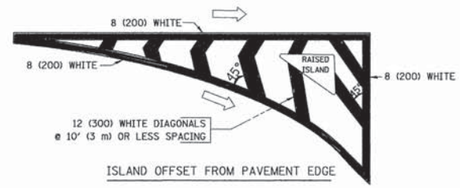


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

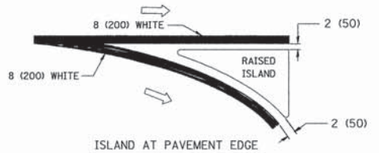
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

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 UNDIVIDED PAVEMENT	2 ø 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ø 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 ø 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ø 6 (150) 12 (300) ø 45° 12 (300) ø 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 ø 4 (100) WITH 12 (300) DIAGONALS ø 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ø 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) ø 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.

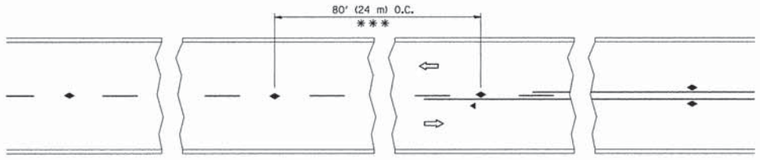
FILE NAME = v:\2456\IDOT1COMBINED.pdf	USER NAME =	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
		DRAWN -	REVISED -C. JUCIUS 09-09-09
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE =	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

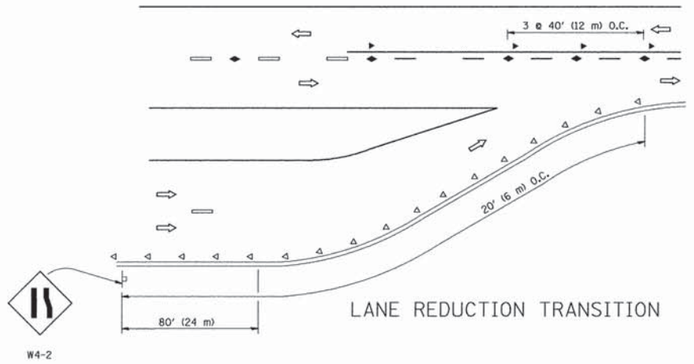
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-PP	WILL	124	86
	TC-13	CONTRACT NO. 63672		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

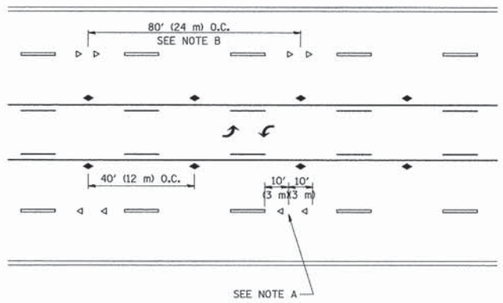


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

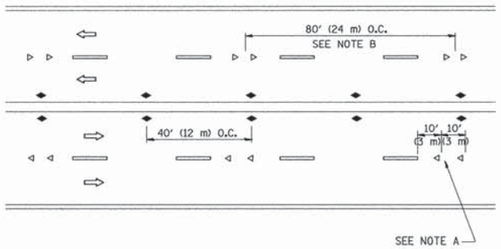
TWO-LANE/TWO-WAY



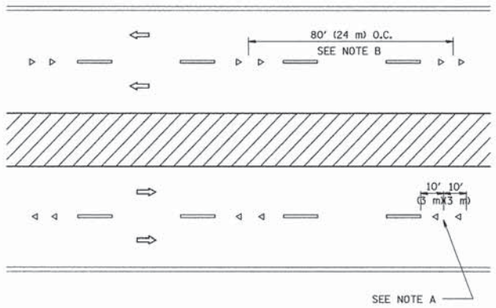
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

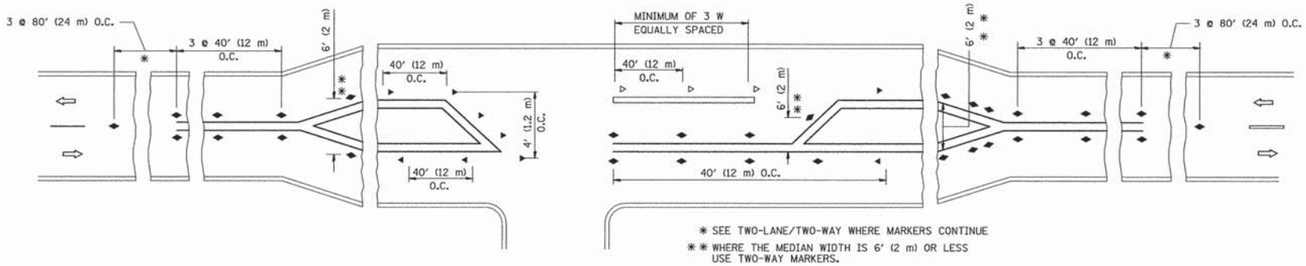
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

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

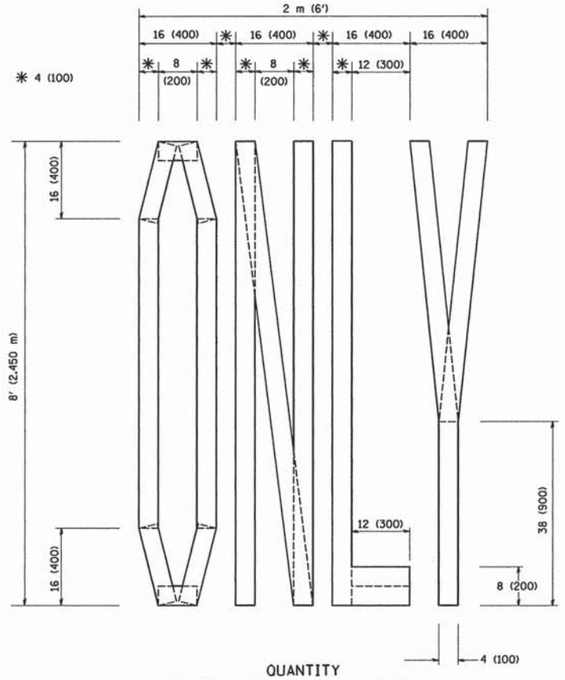
FILE NAME = v:\2456\IDOT1COMBINED.pdf	USER NAME =	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE =	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

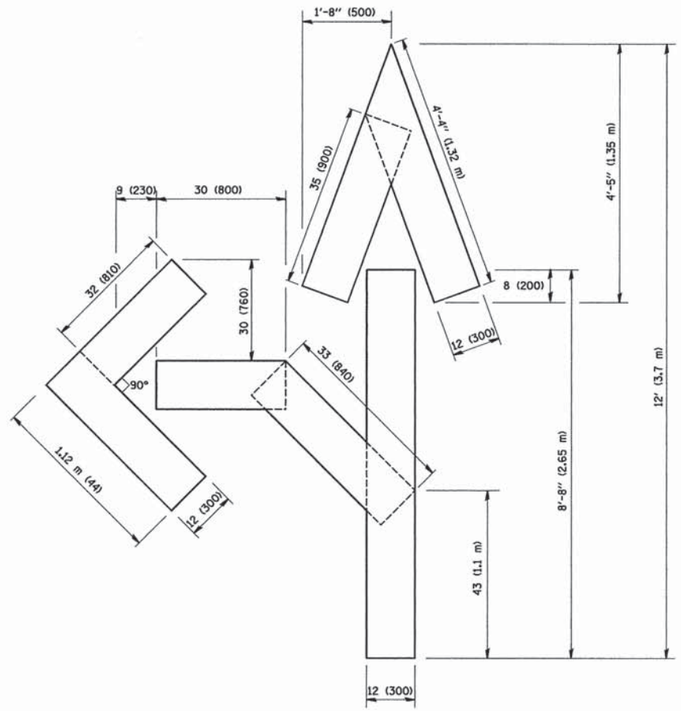
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

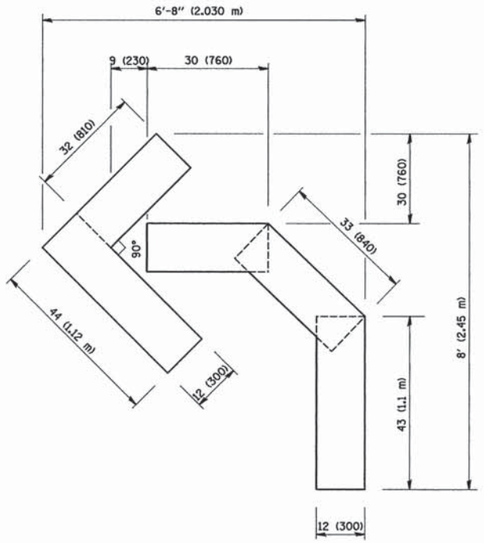
F.AU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	87
	TC-11	CONTRACT NO. 63672		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



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



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

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

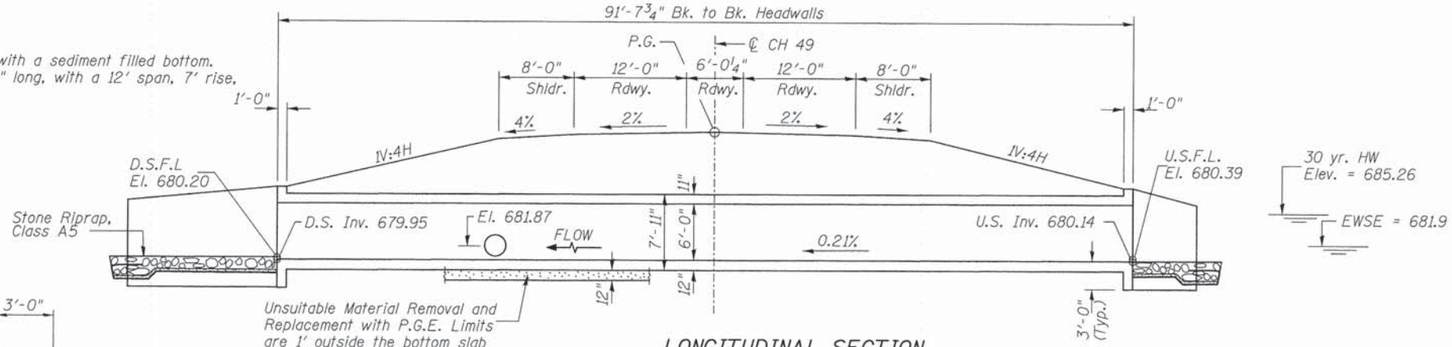
FILE NAME = [redacted] v:\2456\IDOT1COMBINED.pdf	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -T. RAMMACHER 11-04-97			1638	05-00086-14-FP	WILL	124	88
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98				TC-16		CONTRACT NO. 63672	
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	

B.M.: Chiseled "X" on Southwest Flange bolt on Fire Hydrant
Sta. 196+68. 26.4' Rt.
Elev. 700.80

Existing Structure:
Corrugated metal pipe with a sediment filled bottom. The structure is 68'-0" long, with a 12' span, 7' rise, and is not skewed.

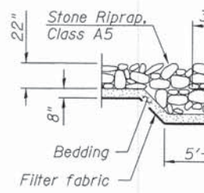
Salvage: None

Road to be closed to traffic during construction.

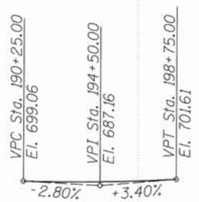


LONGITUDINAL SECTION

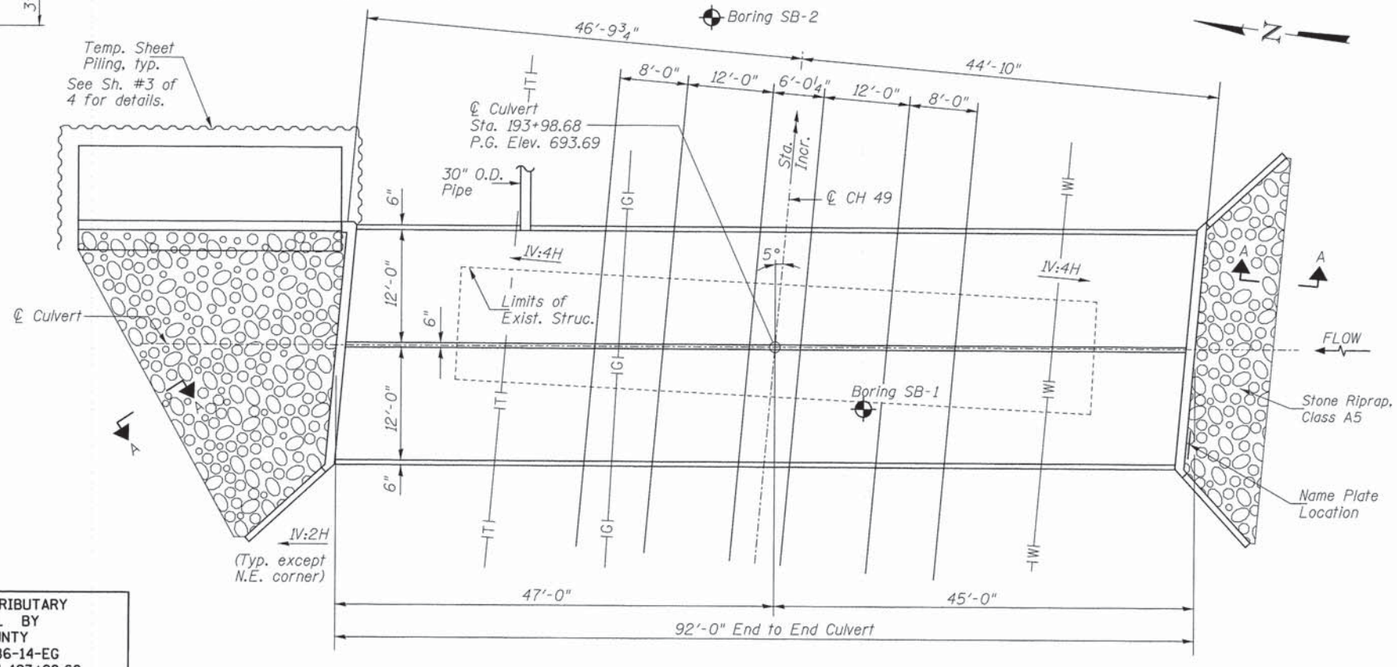
Dimensions are at Rt.L's to ℄ Roadway



SECTION A-A



PROFILE GRADE



PLAN

DEER CREEK TRIBUTARY
BUILT 201_ BY
WILL COUNTY
SEC. 05-00086-14-EG
C.H. 49 STATION 193+98.68
F.A. PROJ. BRS-••••(•••)
STR. NO. 099-3085 LOADING HS20-44

NAME PLATE

Locate Name Plate at South Headwall
S.W. Corner of Culvert (See Std. 515001)

WATERWAY INFORMATION

Drainage Area = 3.51 Sq. Mi. Low Grade Elev. = 693.68 @ Sta. 194+08.87

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	30	466	56	123	685.26	1.64	0.15	686.90	685.41
Base	100	596	59	132	685.65	2.39	0.25	688.04	685.90

DESIGN SPECIFICATIONS

2002 AASHTO & Interims

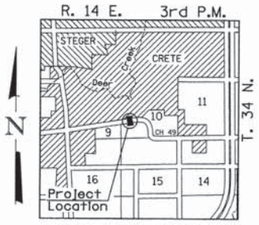
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.



LOCATION SKETCH

GENERAL NOTES

Reinforcement Bars shall conform to the requirements of ASTM A 706 Grade 60.
Reinforcement bars designated (E) shall be epoxy coated.
For backfilling and embankment see Standard Specifications.
The required depth of removal and replacement of unsuitable materials may be adjusted by the Engineer to account for variable subsurface conditions.
Precast culvert option will not be allowed.
All construction joints shall be bonded.
Exposed concrete edges shall have a 3/4" chamfer unless otherwise noted.
Layout of stone riprap may be varied in the field to suit ground conditions as directed by the Engineer.
A distance of half the length of the wingwall, but not less than 6 feet of the barrel shall be poured monolithically with the wingwall.
All excavation/backfilling required for construction of the culvert as shown in these plans and in accordance with the Standard Specifications shall be included in the cost of Concrete Box Culverts.
The gradation of the Porous Granular Embankment shall be CA-18.
N.E. wingwall footing to be poured prior to pouring the bottom slab of culvert.
Existing utilities will be relocated prior to construction by others. Contractor to verify completion prior to removal of existing structure.

TOTAL BILL OF MATERIAL

	ITEM	UNIT	TOTAL
	Concrete Box Culverts	CU YD	235.6
(1)	Reinforcement Bars	POUND	41,140
(1)	Reinforcement Bars, Epoxy Coated	POUND	180
(1)	Removal of Existing Structures	EACH	1
	Name Plates	EACH	1
	Stone Riprap, Class A5	SQ YD	90
(1)	Filter Fabric	SQ YD	90
	Removal & Disposal of Unsuitable Material	CU YD	107
	Porous Granular Embankment	CU YD	107
(1)	Temporary Sheet Piling	SQ FT	1,482

(1) See Special Provisions

DESIGN SCOUR TABLE

Location	Upstream	Downstream
Design Scour Elevation	680.14	679.95

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.
This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

Benjamin A. Nesel 8/15/2013
Illinois Structural No. 6527
Expires 11/30/2014

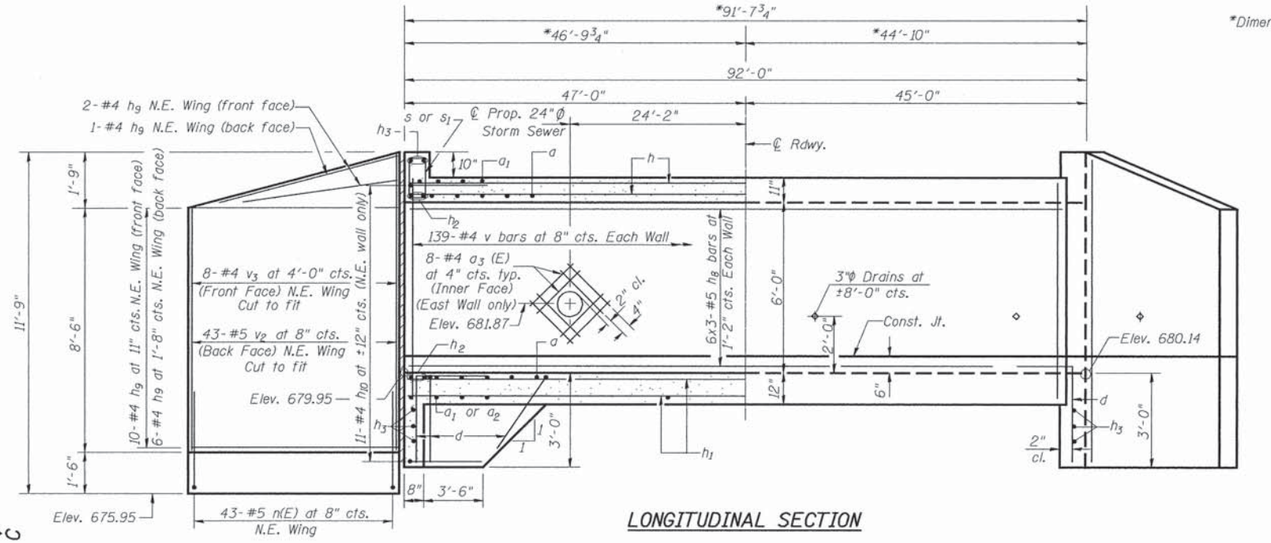
BENJAMIN A. NESEL 081-006527 LICENSED STRUCTURAL ENGINEER OF JACKSONVILLE, ILLINOIS
Lic.Exp. 11/30/2014

GENERAL PLAN & ELEVATION
WILL COUNTY
SECTION 05-00086-14-FP
C.H. 49 OVER DEER CREEK TRIBUTARY
STATION 193+98.68
STRUCTURE NO. 099-3085

SHEET NO. 1	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	CH 49	05-00086-14-FP	WILL	124	89
	S.N. 099-3085		CONTRACT NO. 63672		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-••••(•••)		

DESIGNED	CTM
CHECKED	BAN
DRAWN	CTM
CHECKED	BAN

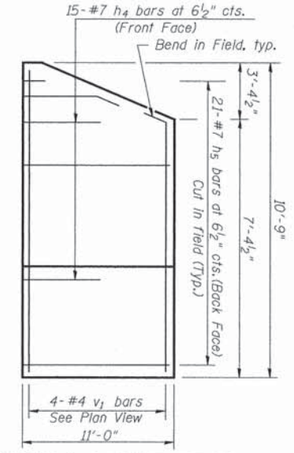
2456CULV01



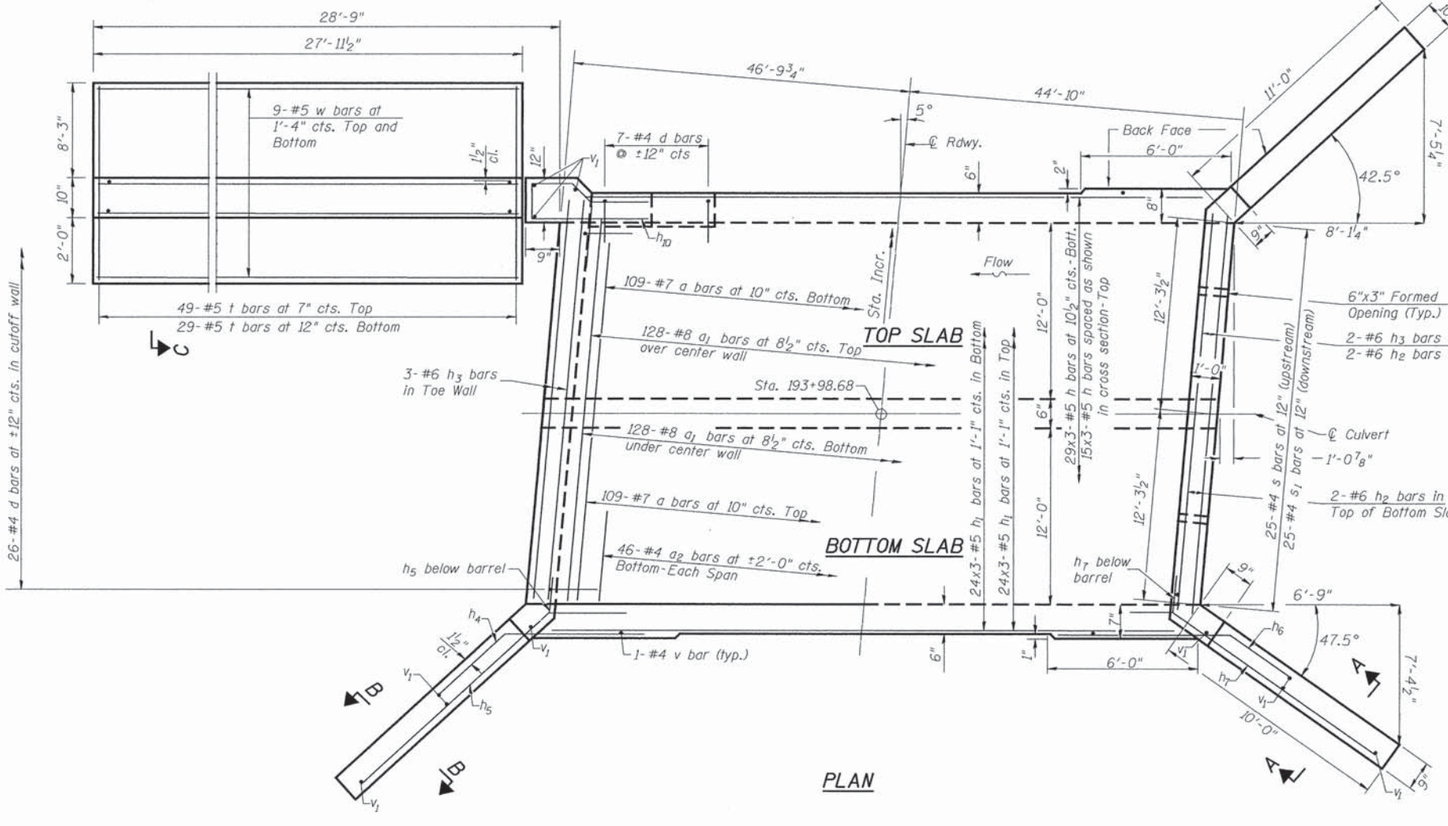
LONGITUDINAL SECTION

*Dimensions are at right angles to ℄ Roadway

Notes:
See Sheet 3 of 4 for Sections A-A, B-B, & C-C
Bars indicated thus 24x3-#5 etc. indicates 24 lines of bars with 3 lengths per line.
Cut to fit v & h8 bars around storm sewer.

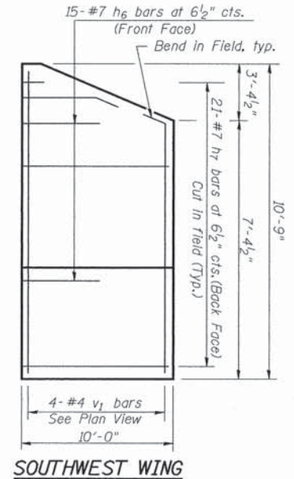


NORTHWEST & SOUTHEAST WING



PLAN

MIN. BAR LAP
#5 = 1'-8"

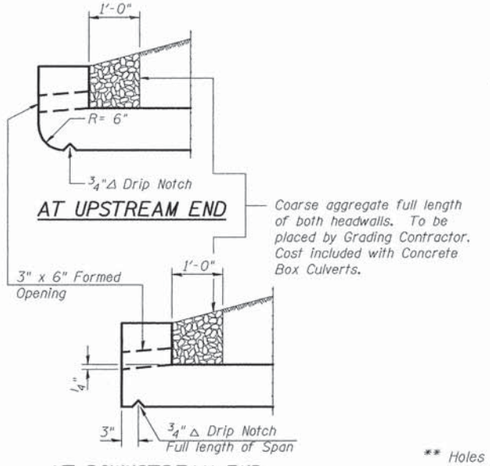


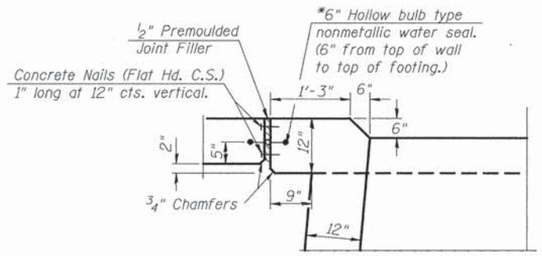
SOUTHWEST WING

CULVERT DETAILS
WILL COUNTY
SECTION 05-00086-14-FP
C.H. 49 OVER DEER CREEK TRIBUTARY
STATION 193+98.68

SHEET NO. 2	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	1638	05-00086-14-FP	WILL	124	90
		S.N. 099-3085	CONTRACT NO. 63672		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-••••(•••)		

2456CULV02

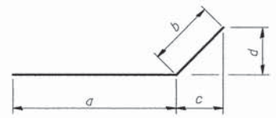




N.E. CORNER DETAIL

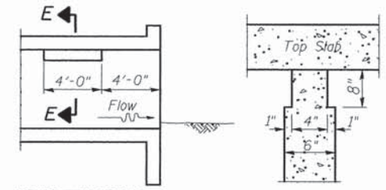
(Joint cost included with Concrete Box Culverts)

*Modify water seal as required for h_{10} bars



Bar	a	b	c	d
h_4	5'-0"	3'-0"	2'-2½"	2'-0¼"
h_5	11'-0"	3'-0"	2'-2½"	2'-0¼"
h_6	5'-0"	3'-0"	2'-0¼"	2'-2½"
h_7	10'-0"	3'-0"	2'-0¼"	2'-2½"

BARS h_4, h_5, h_6, & h_7



LONGITUDINAL SECTION

SECTION E-E

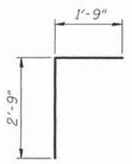
Interior Wall

Note: Notch by rough-finished board attached to and removed with formwork, each interior wall. (Do not chamfer)

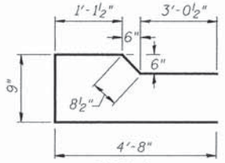
PHOEBE NESTING SITE DETAIL

(Downstream End Only - Cost included with Concrete Box Culverts)

BAR a

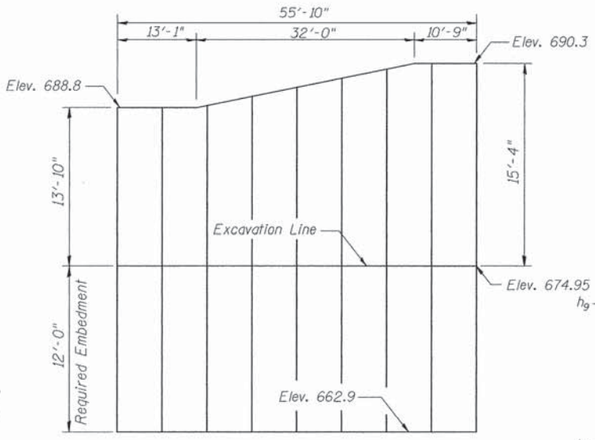


BAR d



BAR h_{10}

** Holes shall be cast into slab.

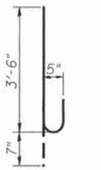


TEMPORARY SHEET PILING ELEVATION

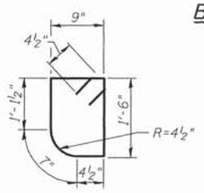
Notes:

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans for lesser design requirements, then full design submittals with the required seals will be expected by the Department for review and approval.

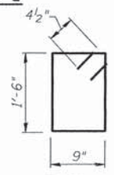
Minimum section modulus of temporary sheet piling shall be 21.2 in /ft.



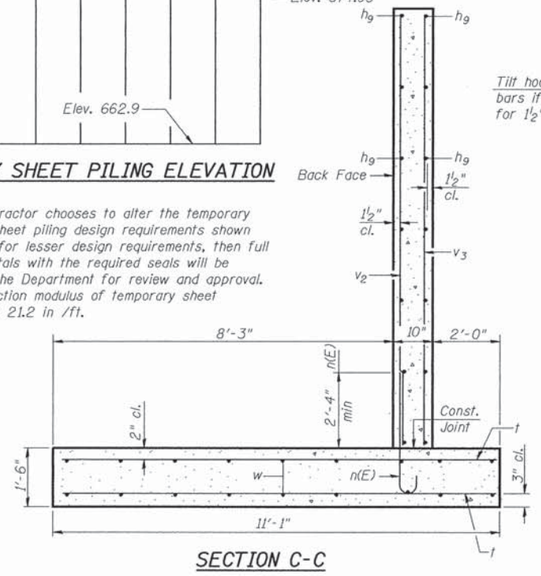
BARS n(E)



BARS s

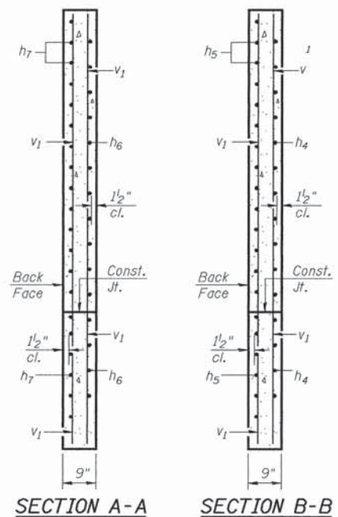


BAR s_1



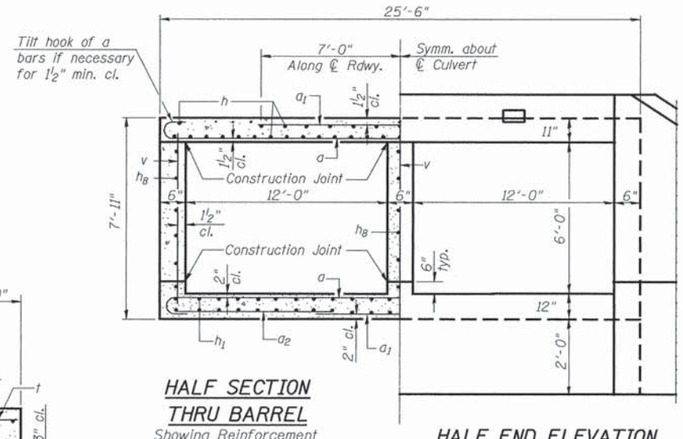
SECTION C-C

Note: Maximum soil pressure under footing = 1,655 psf



SECTION A-A

SECTION B-B



HALF SECTION THRU BARREL

Showing Reinforcement

HALF END ELEVATION

Showing Dimensions

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	218	#7	27'-0"	
a_1	256	#8	14'-0"	
a_2	92	#4	8'-4"	
a_3	8	#4	3'-6"	
d	59	#4	4'-6"	
h	132	#5	31'-9"	
h_1	144	#5	31'-9"	
h_2	8	#6	25'-4"	
h_3	10	#6	24'-7"	
h_4	30	#7	8'-0"	
h_5	42	#7	14'-0"	
h_6	15	#7	8'-0"	
h_7	21	#7	13'-0"	
h_8	54	#5	31'-9"	
h_9	19	#4	27'-8"	
h_{10}	11	#4	10'-4"	
n(E)	43	#5	4'-1"	
s	25	#4	5'-3"	
s_1	25	#4	5'-1"	
t	78	#5	10'-10"	
v	420	#4	7'-7"	
v_1	15	#4	10'-6"	
v_2	43	#5	10'-0"	
v_3	8	#4	10'-0"	
w	18	#5	27'-8"	
Concrete Box Culverts			CU YD	235.6
① Reinforcement Bars			POUND	41,140
① Reinforcement Bars, Epoxy Coated			POUND	180

① See Special Provisions

CULVERT DETAILS
WILL COUNTY
SECTION 05-00086-14-FP
C.H. 49 OVER DEER CREEK TRIBUTARY
STATION 193+98.68

SHEET NO. 3	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	1638	05-00086-14-FP	WILL	124	91
		S.N. 099-3085	CONTRACT NO. 63672		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-••••(•••)		

2456CULV03

SOIL BORING LOG

Division of Highways
S.A.M. Consultants, Inc.

Date 5/9/07

ROUTE C. H. #49 - Exchange St. DESCRIPTION On existing Exchange Street LOGGED BY Kaleem

SECTION 05-00086-14-FP LOCATION

COUNTY Will County, Illinois DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SB-01
Station 73+10
Offset 10.00ft R
Ground Surface Elev. 695.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 679.0 ft ▼
Upon Completion 682.0 ft ▽
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Approximately 18 inches ASPHALT			
693.50			
Gray **CLAY LOAM**, with gravel, medium stiff to stiff (A-6)	3		17.7
	1		
	2	2.3	14.3
	2	P	
	3		
	1		
-5	1		18.0
	1		
	2		
	1		
	4	1.8	20.2
	4	P	
	5		
	1		
	2	0.5	16.5
	3	P	
-10	4		
683.00			
Gray **SANDY CLAY**, medium stiff (A-6) ▽	1		
	2	0.5	22.3
	4	P	
	3		
-15			
679.00 ▼			
Gray **CLAY**, very stiff to hard (A-6)	3		
	4	2.3	20.6
	6	P	
	7		
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray **CLAY**, very stiff to hard (A-6) *(continued)*	4		
	6	3.3	19.2
	11	P	
	12		
	3		
-25	6	4.3	16.3
	10	P	
	10		
667.00			
Gray **SANDY CLAY**, hard (A-6)	11		
	11	4.5	12.3
	14	P	
-30	13		
663.00			
Gray **CLAY**, very stiff to hard (A-6)	3		
	6	2.5	15.6
	10	P	
	11		
-35			
659.00			
Gray **SANDY CLAY**, hard (A-6)	2		
	8		15.2
	10		
657.00	12		
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

SOIL BORING LOG

Division of Highways
S.A.M. Consultants, Inc.

Date 5/10/07

ROUTE C. H. #49 - Exchange St. DESCRIPTION On existing Exchange Street LOGGED BY Kaleem

SECTION 05-00086-14-FP LOCATION

COUNTY Will County, Illinois DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SB-02
Station 73+50
Offset 10.00ft R
Ground Surface Elev. 695.50 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 675.5 ft ▼
Upon Completion 681.5 ft ▽
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Approximately 18 inches ASPHALT			
694.00			11.2
Gray and brown **CLAY**, stiff to very stiff (A-6), possible fill	30	2.5	
	2	P	
	6	2.0	12.2
	18	P	
691.50	14		
Gray and brown **CLAY LOAM**, hard to stiff (A-6)	2		
-5	4	4.0	14.2
	7	P	
	9		
	3		
	4	4.0	16.3
	6	P	
	6		
	2		
	2	2.0	14.0
	2	P	
-10	3		
	2		
	3	1.0	53.2
	3	P	
681.50 ▽	3		
Gray **CLAY**, medium stiff to stiff (A-6)	2		
-15	3	2.5	19.0
	4	P	
	5		
	6		
	10	3.0	17.7
	16	P	
-20 ▼	11		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray **CLAY**, medium to stiff (A-6) *(continued)*			
	3		
-25	4	1.5	16.3
	6	P	
	7		
	3		
	3	2.0	17.3
	6	P	
665.50 -30	7		
Gray **SANDY CLAY**, hard (A-6)			
663.50			
Gray **CLAY**, very stiff to hard (A-6)	2		
	2		21.0
	3		
	3		
-35			
659.50			
Gray **SANDY CLAY**, hard (A-6)	4		
	5		14.7
	6		
657.50	8		
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

BORING LOGS
WILL COUNTY
SECTION 05-00086-14-FP
C.H. 49 OVER DEER CREEK TRIBUTARY
STATION 193+98.68

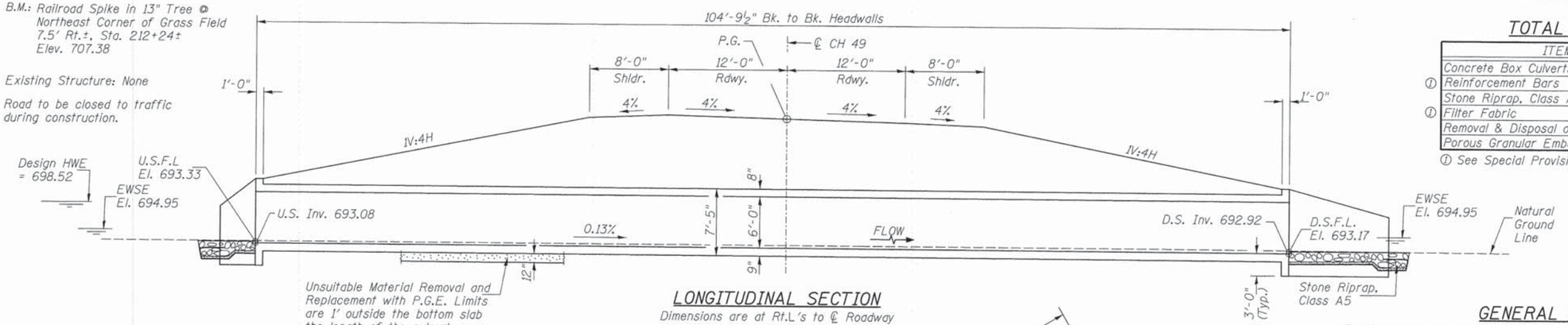
SHEET NO. 4	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	1638	05-00086-14-FP	WILL	124	92
	S.N. 099-3085		CONTRACT NO. 63672		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-••••(•••)		

2456CULV04

B.M.: Railroad Spike in 13" Tree ◎
Northeast Corner of Grass Field
7.5' Rt.±, Sta. 212+24±
Elev. 707.38

Existing Structure: None

Road to be closed to traffic during construction.



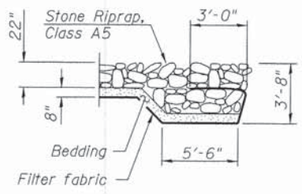
LONGITUDINAL SECTION

Dimensions are at Rt.L's to ℄ Roadway

TOTAL BILL OF MATERIAL

	ITEM	UNIT	TOTAL
	Concrete Box Culverts	CU YD	105.3
①	Reinforcement Bars	POUND	22,370
	Stone Riprap, Class A5	SQ YD	35
①	Filter Fabric	SQ YD	35
	Removal & Disposal of Unsuitable Material	CU YD	55
	Porous Granular Embankment	CU YD	55

① See Special Provisions



SECTION A-A

PLAN

PROFILE GRADE

GENERAL NOTES

Reinforcement Bars shall conform to the requirements of ASTM A 706 Grade 60.

For backfilling and embankment see Standard Specifications.

The required depth of removal and replacement of unsuitable materials may be adjusted by the Engineer to account for variable subsurface conditions.

Precast culvert option will not be allowed.

All construction joints shall be bonded.

Exposed concrete edges shall have a ¾" chamfer unless otherwise noted.

Layout of stone riprap may be varied in the field to suit ground conditions as directed by the Engineer.

A distance of half the length of the wingwall, but not less than 6 feet of the barrel shall be poured monolithically with the wingwall.

All excavation / backfilling required for construction of the culvert as shown in these plans and in accordance with the Standard Specifications shall be included in the cost of Concrete Box Culverts.

The gradation of the Porous Granular Embankment shall be CA-18.

PROP. CURVE DATA

PI STA. = 214+58.26
Δ = 41° 58' 13" (RT)
D = 1° 41' 43"
R = 3,380.00'
T = 1,296.45'
L = 2,475.91'
E = 240.11'
e = 4.0%
T.R. = _____
S.E. RUN = _____
P.C. STA. = 201+61.80
P.T. STA. = 226+37.72

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.

This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

Benjamin A. Nebel 8/15/13

Illinois Structural No. 6527
Expires 11/30/2014

BENJAMIN A. NEBEL 081-006527 LICENSED STRUCTURAL ENGINEER OF JACKSONVILLE ILLINOIS 8/15/13

Lic Exp. 11/30/2014

WATERWAY INFORMATION

Drainage Area = 0.82 Sq. Mi. Low Grade Elev. = 708.01 ◎ Sta. 212+79.44

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	30	168	-	49	698.52	-	0.00	-	698.52
Base	100	215	-	53	698.94	-	0.00	-	698.94

DESIGN SPECIFICATIONS

2002 AASHTO & Interims

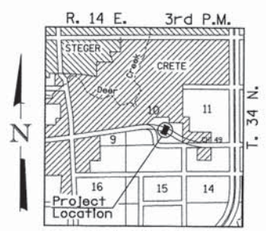
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.



LOCATION SKETCH

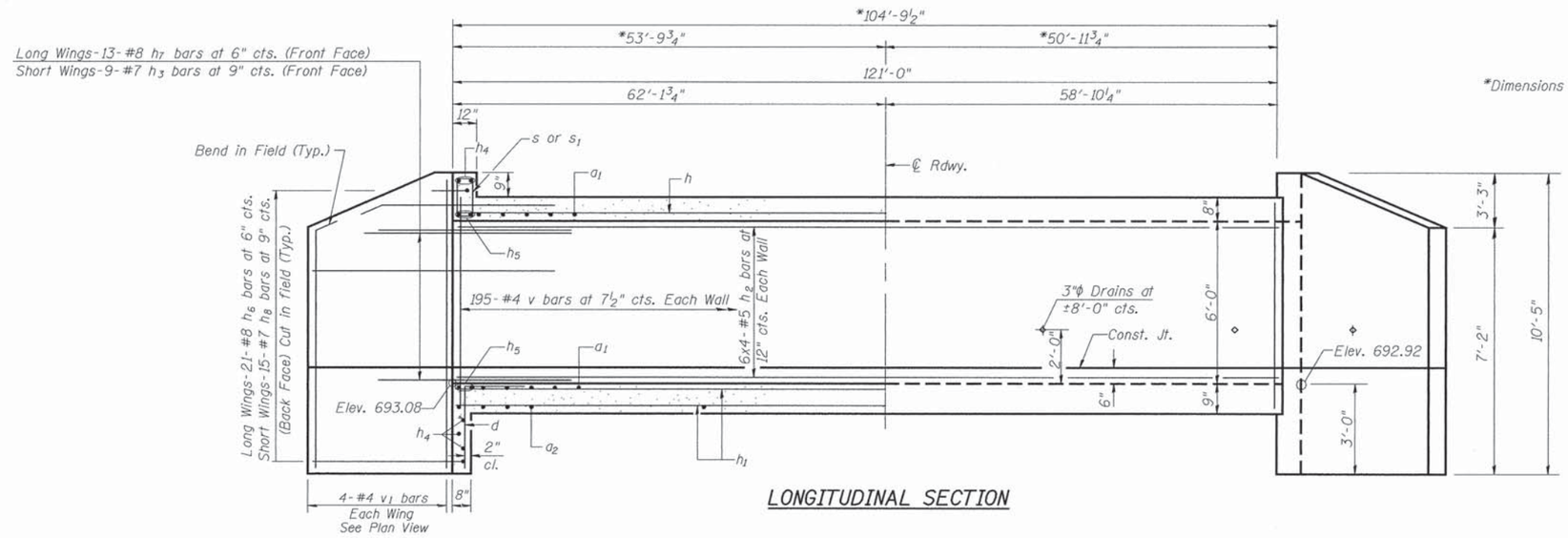
GENERAL PLAN & ELEVATION

WILL COUNTY
SECTION 05-00086-14-FP
C.H. 49 OVER DEER CREEK TRIBUTARY
STATION 211+38.22

SHEET NO. 1	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	CH 49	05-00086-14-FP	WILL	124	93
			CONTRACT NO. 63672		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-••••(•••)		

DESIGNED	TAC
CHECKED	BAN
DRAWN	TAC
CHECKED	BAN

2456CULV101



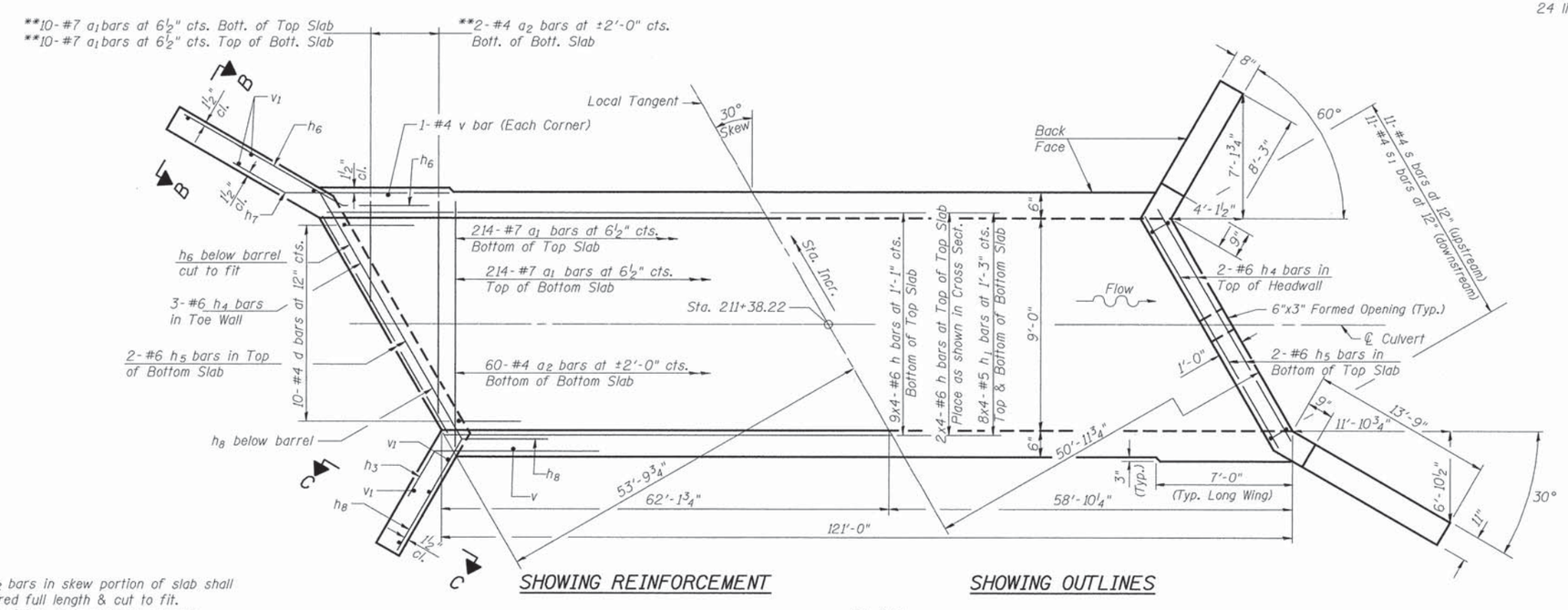
LONGITUDINAL SECTION

*Dimensions are at right angles to ℄ Roadway

MIN. BAR LAP

#5 = 1'-8"
#6 = 2'-0"

Notes:
See Sheet 3 of 4 for Sections B-B & C-C
Bars indicated thus 24x3-#5 etc. indicates 24 lines of bars with 3 lengths per line.



SHOWING REINFORCEMENT

SHOWING OUTLINES

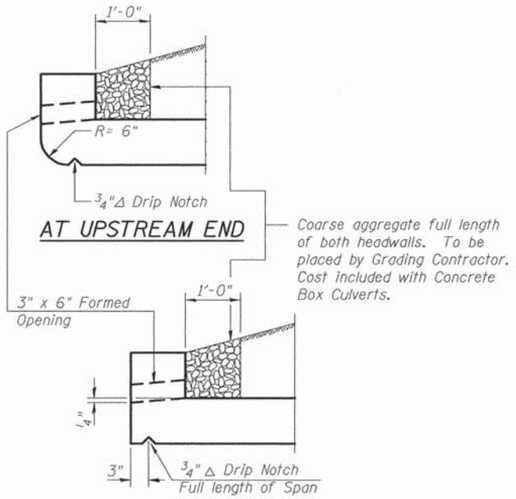
PLAN

** a1 & a2 bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.

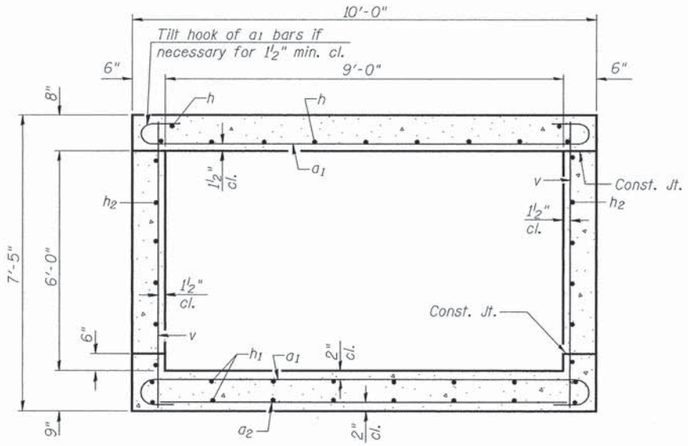
2456CULV102

CULVERT DETAILS
WILL COUNTY
SECTION 05-00086-14-FP
C.H. 49 OVER DEER CREEK TRIBUTARY
STATION 211+38.22

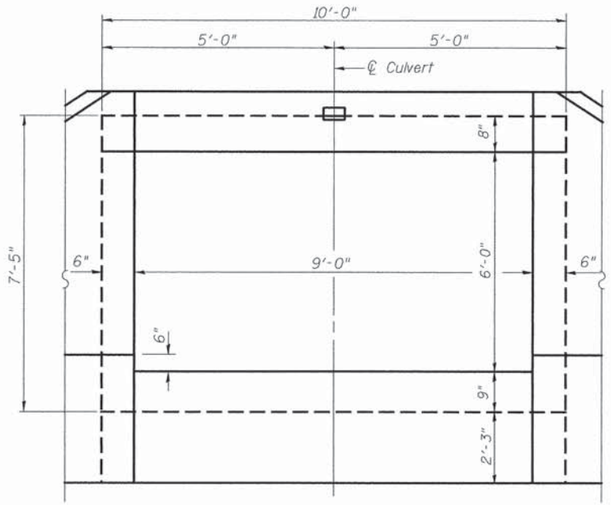
SHEET NO. 2	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	1638	05-00086-14-FP	WILL	124	94
			CONTRACT NO. 63672		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-••••(•••)		



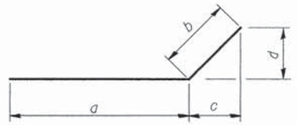
DRAIN DETAIL



SECTION THRU BARREL



END ELEVATION
Showing Dimensions



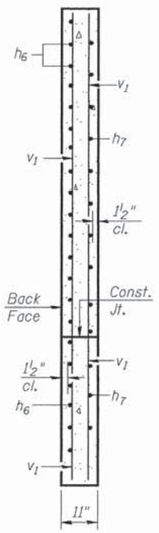
Bar	a	b	c	d
h_3	5'-0"	3'-0"	1'-6"	2'-7 1/4"
h_6	13'-9"	3'-0"	2'-7 1/4"	1'-6"
h_7	5'-0"	3'-0"	2'-7 1/4"	1'-6"
h_8	8'-3"	3'-0"	1'-6"	2'-7 1/4"

BARS h_3, h_6, h_7, & h_8

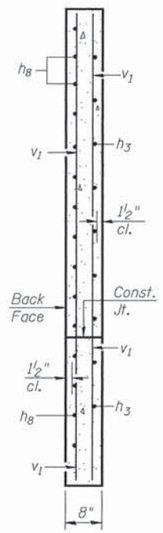
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	448	#7	11'-4"	
a_2	62	#4	9'-8"	
d	20	#4	4'-6"	
h	44	#6	31'-9"	
h_1	64	#5	31'-6"	
h_2	48	#5	31'-6"	
h_3	18	#7	8'-0"	
h_4	10	#6	10'-7"	
h_5	8	#6	11'-6"	
h_6	42	#8	16'-9"	
h_7	26	#8	8'-0"	
h_8	30	#7	11'-3"	
s	11	#4	4'-7"	
s_1	11	#4	4'-5"	
v	394	#4	7'-1"	
v_1	16	#4	10'-2"	
Concrete Box Culverts			CU YD	105.3
① Reinforcement Bars			POUND	22,370

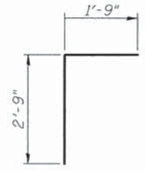
① See Special Provisions



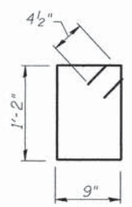
SECTION B-B



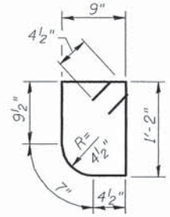
SECTION C-C



BAR d



BAR s_1



BAR s

BAR a_1

CULVERT DETAILS
WILL COUNTY
SECTION 05-00086-14-FP
C.H. 49 OVER DEER CREEK TRIBUTARY
STATION 211+38.22

SHEET NO. 3	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	1638	05-00086-01-FP	WILL	124	95
			CONTRACT NO. 63672		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-••••(•••)		

2456CULV103

SOIL BORING LOG

Division of Highways
S.A.M. Consultants, Inc.

Date 6/12/07

ROUTE C. H. #49 - Exchange St. DESCRIPTION On new Exchange Street alignment LOGGED BY Altaf

SECTION 05-00086-14-FP LOCATION

COUNTY Will County, Illinois DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SB-03
Station 87+50
Offset 0.00ft R
Ground Surface Elev. 708.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 675.0 ft
Upon Completion 674.0 ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
707.75				
	8			Approximately 3 inches **TOPSOIL**
	11	8.1	8.6	Yellowish brown with gray pockets **SILTY CLAY**, with gravel and black flakey pabbles, hard (A-6)
	18	B		
	20			
	5			
	8	5.2	13.6	
	13	B		
	18			
	5			
-5	9	8.1	14.2	
	20	B		
	16			
	11			
	11	8.8	13.7	
	20	B		
	30			
	9			
	14	7.9	13.7	
	16	B		
-10	24			
	9			
	10	7.2	15.8	Encountered rust stains at 11 feet
	12	B		
	15			
	9			
	9	9.0	16.4	
	20	B		
	28			
-15	10	8.2	16.5	
	8	B		
	18			
692.00	21			
	7	5.2	16.7	Browninsh gray **CLAY**, trace gravel, hard (A-6)
	8	B		
	15			
	17			
	4	4.1	17.1	
	6	B		
-20	12			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	12			Brownlnsh gray **CLAY**, trace gravel, hard (A-6) *(continued)*
	6	4.3	12.9	
	7	B		
	12			
	13			
685.00				
	7	4.6	13.0	Gray **CLAY LOAM**, very stiff to hard (A-6)
	8	B		
	13			
	14			
-25	3	4.0	12.3	
	5	B		
	6			
	10			
681.00				
	4	4.5	14.2	Gray fine **SAND**, medium dense to dense (A-2)
	4	B		
	8			
	11			
	5			
	10		2.8	
-30	16			
	15		14.6	
	5			
	10			
	10			
	16		18.5	
	3			
	6			
	9			
-35	10		21.4	
	2			
	5			
	8			
	9		17.4	
	17			
	18			
669.50				
	14		19.0	
	21			
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

SOIL BORING LOG

Division of Highways
S.A.M. Consultants, Inc.

Date 5/11/07

ROUTE C. H. #49 - Exchange St. DESCRIPTION On new Exchange Street alignment LOGGED BY Kaleem

SECTION 05-00086-14-FP LOCATION

COUNTY Will County, Illinois DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SB-04
Station 92+00
Offset 0.00ft R
Ground Surface Elev. 706.50 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 673.5 ft
Upon Completion 671.5 ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
706.25				
	1			Approximately 3 inches **TOPSOIL**
	3	3.5	21.4	
	4	P		Gray **CLAY LOAM**, with gravel, very stiff (A-6)
	5			
	2			
	4	3.0	17.4	
	8	P		
	11			
	2			
-5	4	2.0	24.7	
	8	P		
700.50	10			
	5			Gray **CLAY LOAM**, hard (A-6)
	11	4.5	15.4	
	20	P		
	23			
	8			
	13	4.5	15.8	
	20	P		
-10	26			
	8			
	14	4.5	16.3	
	23	P		
692.50	32			
	5			Yellowish Brown **CLAY**, hard (A-6)
	10	4.5	17.8	
	12	P		
	27			
	5			
	10	4.5	16.3	
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	15	P		Yellowish Brown **CLAY**, hard (A-6) *(continued)*
	20			
	6			
	9	3.5	15.6	
-25	16	P		
	21			
680.50				
				Gray **SANDY CLAY**, very stiff (A-6)
678.50				
	11			Gray **SANDY LOAM**, medium dense to dense (A-2)
	17		4.5	
	20			
-30	30			
	8			
	12		17.2	
	19			
	33			
-35				
	5			
	9		18.2	
	16			
667.50	20			
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

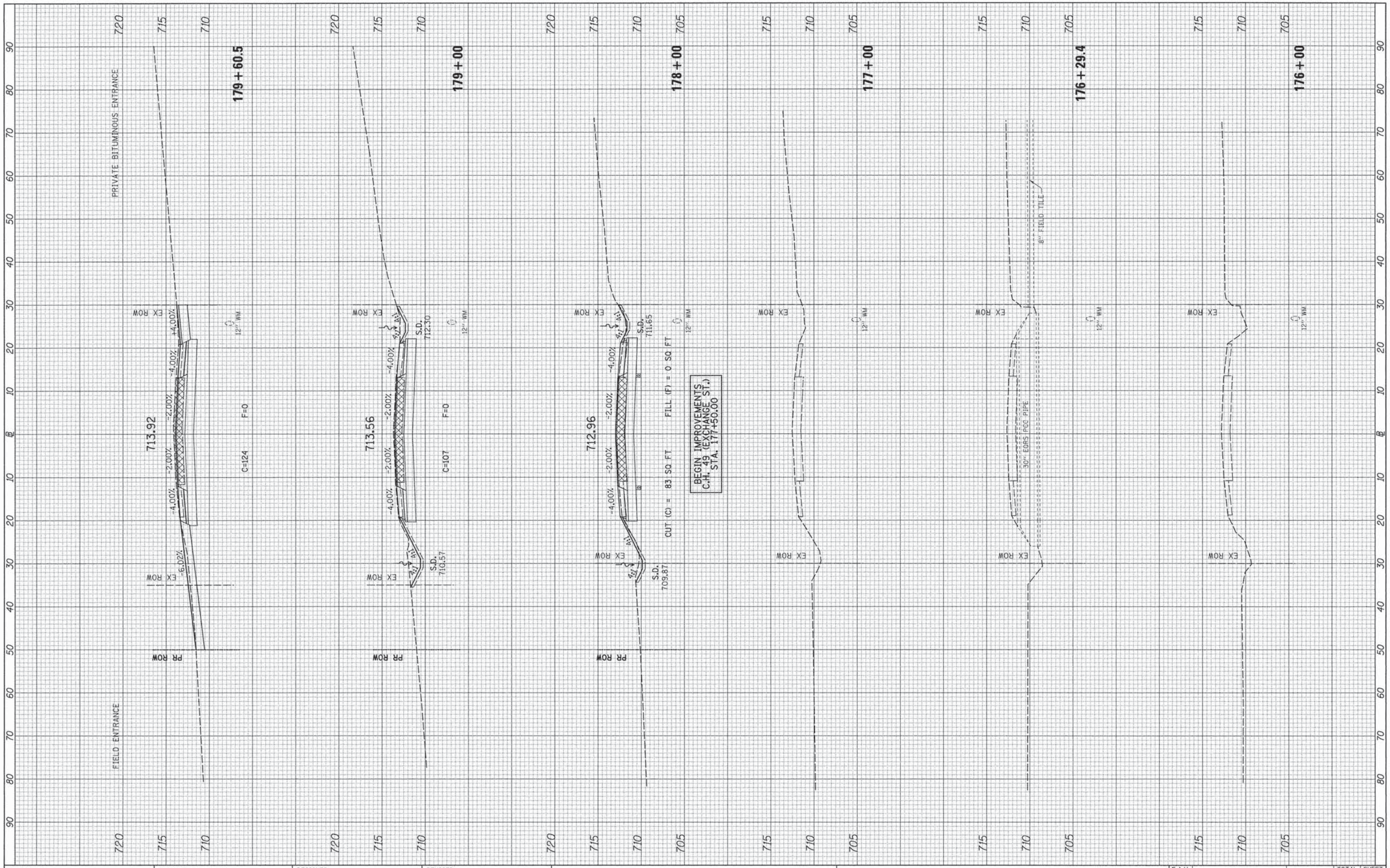
BORING LOGS
WILL COUNTY
SECTION 05-00086-14-FP
C.H. 49 OVER DEER CREEK TRIBUTARY
STATION 211+38.22

SHEET NO. 4	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4 SHEETS	1638	05-00086-14-FP	WILL	124	96
			CONTRACT NO. 63672		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-••••(•••)		

2456CULV104

FINAL SURVEY NOTE BOOK NO.		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

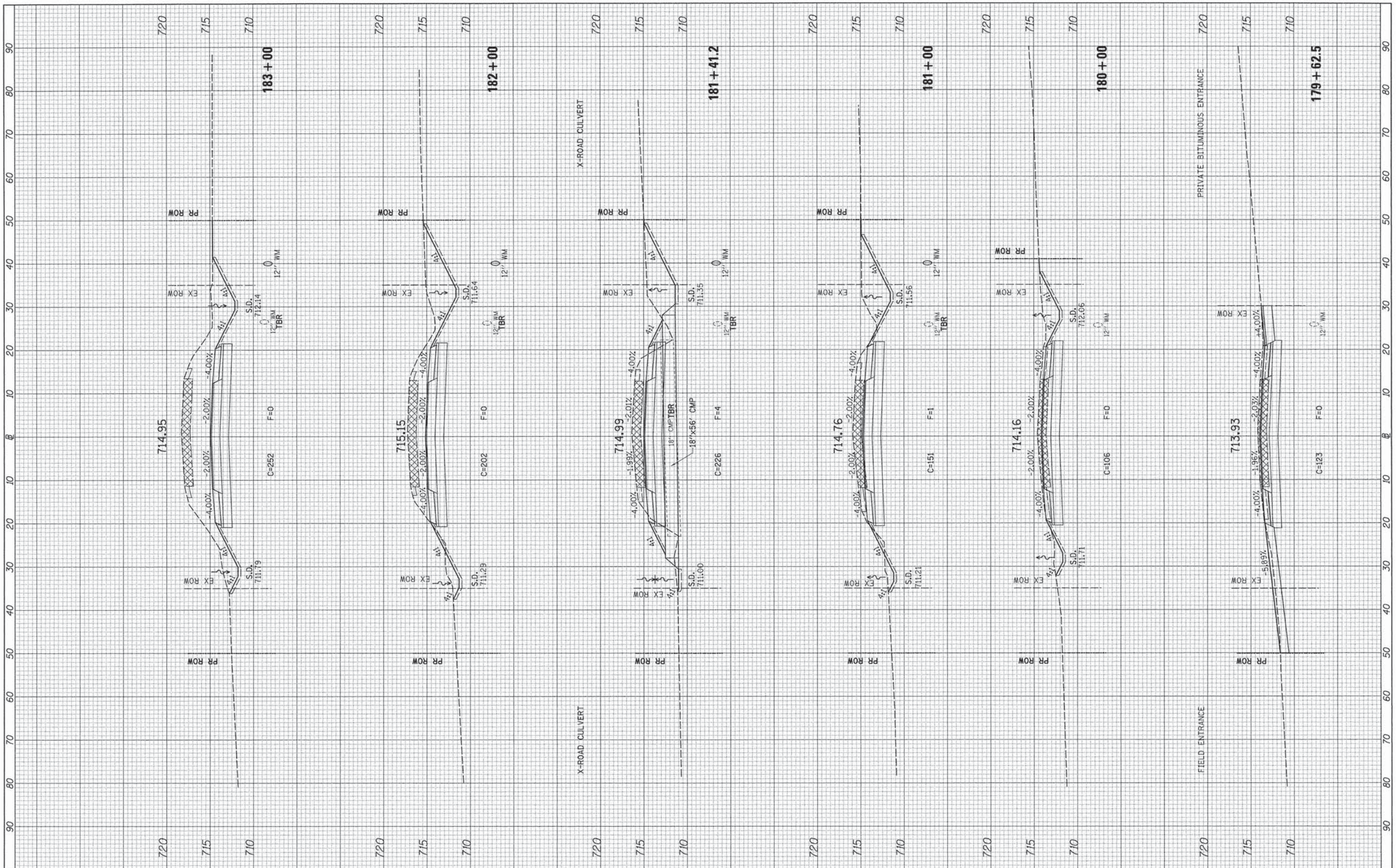
ORIGINAL SURVEY NOTE BOOK NO.		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



FILE NAME = v:\2456\2456xshts_EXCHANGE.dgn	USER NAME = smountsl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C.H. 49 (EXCHANGE ST.) CROSS SECTIONS	F.A.U. RTE. 1638	SECTION 05-00086-14-FP	COUNTY WILL	TOTAL SHEETS 124 / SHEET NO. 97
	PLOT SCALE = 10.0000 ' / in.	DRAWN -	REVISED -		SCALE: H=10 V=5	SHEET NO. 1 OF 18 SHEETS	STA. 176+00 TO STA. 179+60.5	CONTRACT NO. 63672	
	PLOT DATE = 8/15/2013	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -						

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		



FILE NAME = v:\2456\2456xshts_EXCHANGE.dgn	USER NAME = smountsl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

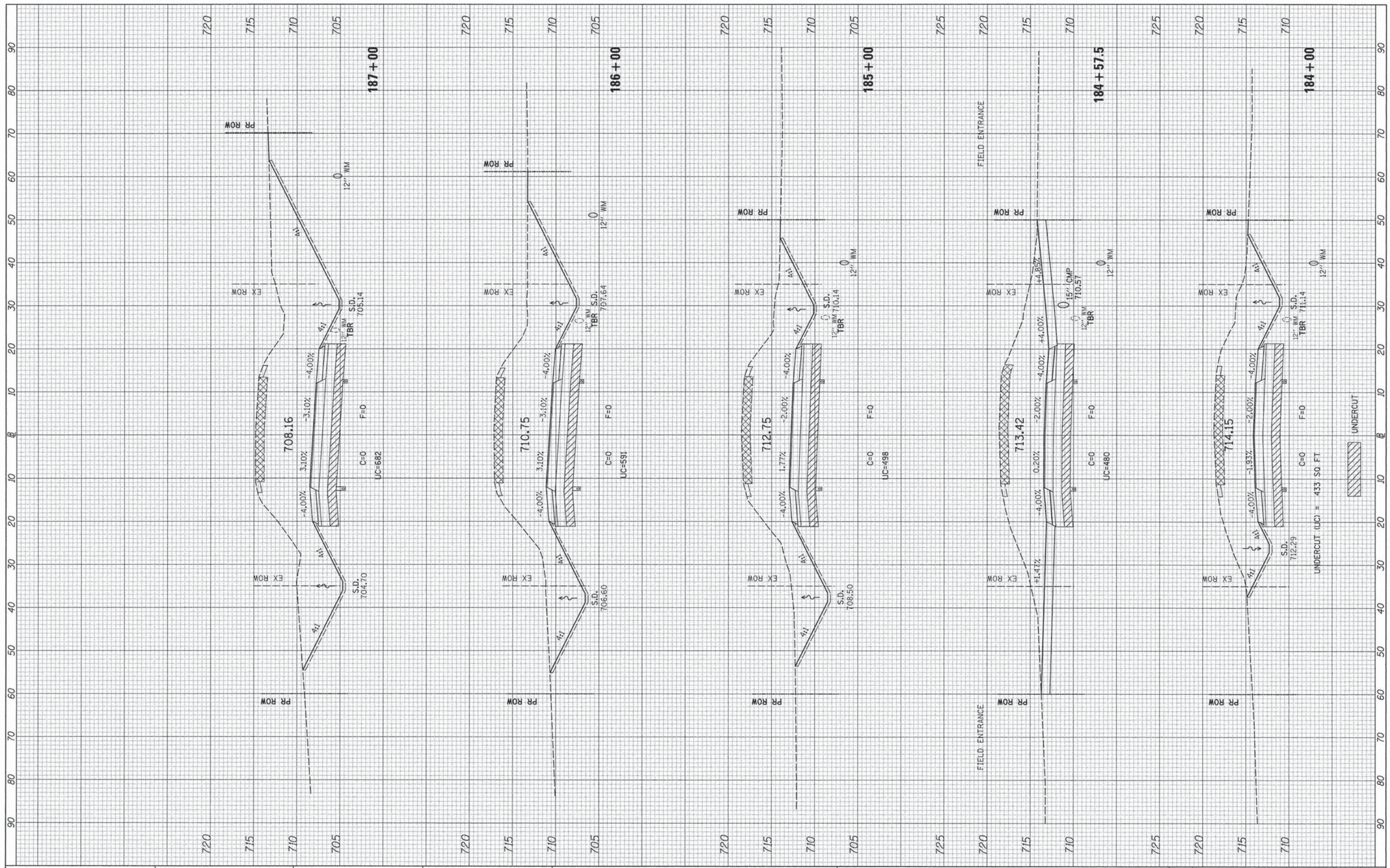
C.H. 49 (EXCHANGE ST.) CROSS SECTIONS

SCALE: H=10 V=5 | SHEET NO. 2 OF 18 SHEETS | STA. 179+62.5 TO STA. 183+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	98
		CONTRACT NO. 63672		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		



FILE NAME = v:\2456\2456xshts_EXCHANGE.dgn	USER NAME = smounts1	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

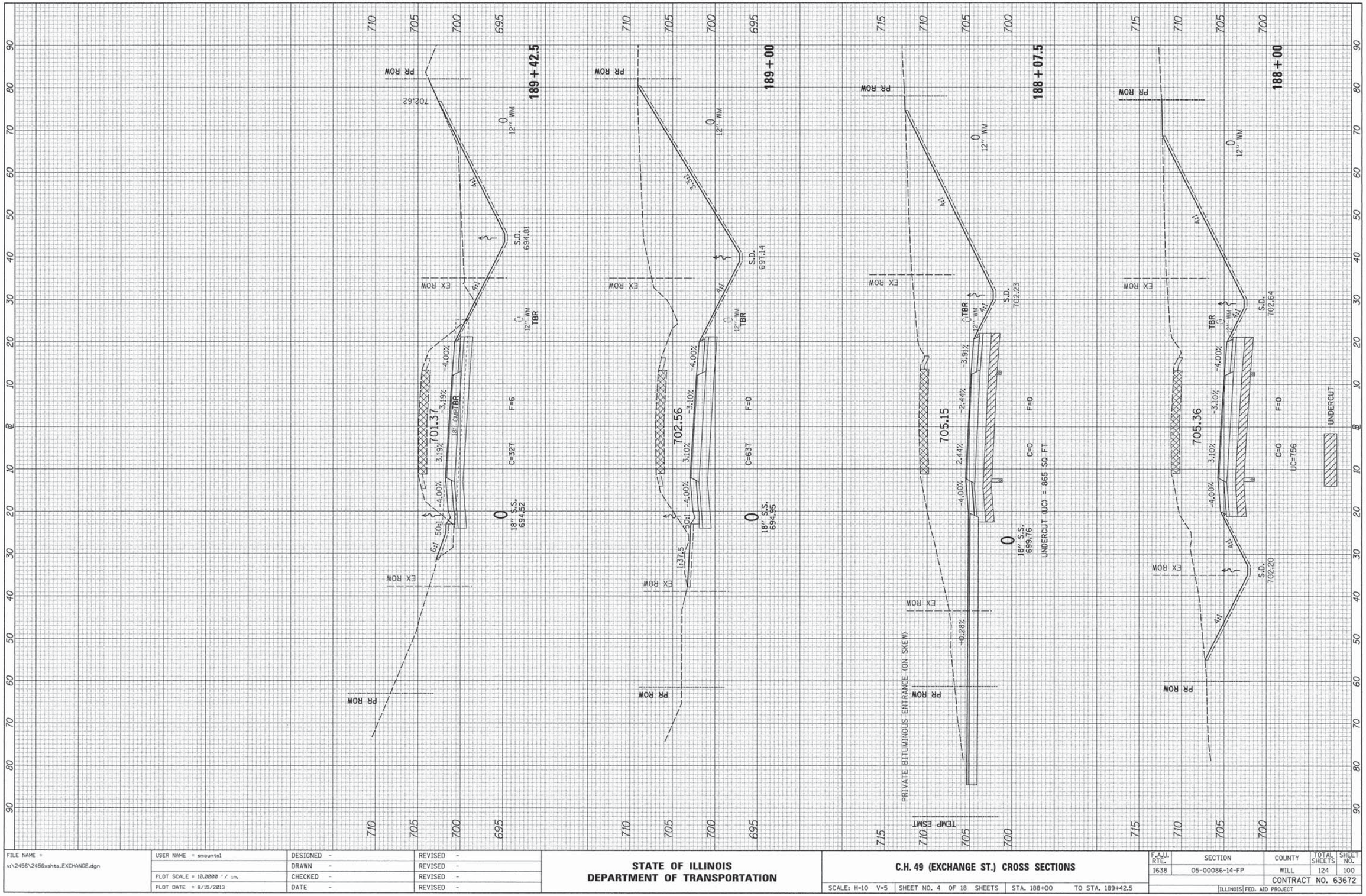
C.H. 49 (EXCHANGE ST.) CROSS SECTIONS

SCALE: H=10 V=5 | SHEET NO. 3 OF 18 SHEETS | STA. 184+00 TO STA. 187+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	99
		CONTRACT NO. 63672		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



FILE NAME =	USER NAME = smountsl	DESIGNED -	REVISED -
v:\2456\2456xshts_EXCHANGE.dgn		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/15/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C.H. 49 (EXCHANGE ST.) CROSS SECTIONS

SCALE: H=10 V=5 | SHEET NO. 4 OF 18 SHEETS | STA. 188+00 TO STA. 189+42.5

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638	05-00086-14-FP	WILL	124	100
		CONTRACT NO. 63672		
	ILLINOIS FED. AID PROJECT			