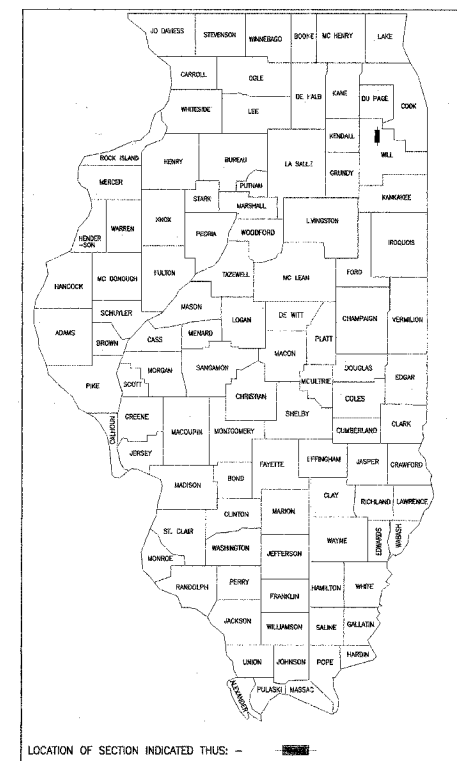


FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	150	1
F.A.A. REG.		ILLINOIS PROJECT	CONTRACT NO. 83896	

Total Sheets **150**



FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

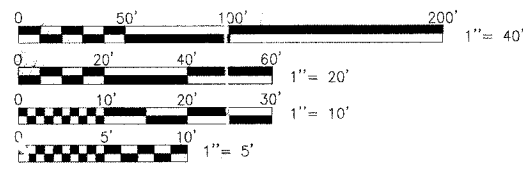
PLANS FOR PROPOSED FEDERAL AID PROJECT FAU 2545/PLAINFIELD-NAPERVILLE ROAD (C.H. 14) 111TH STREET TO 95TH STREET ROADWAY RECONSTRUCTION

SECTION NO. 98-00036-19-FP
PROJECT NO. ^{RS}M- 8003 (744)
JOB NO. C-91-111-07
WILL COUNTY

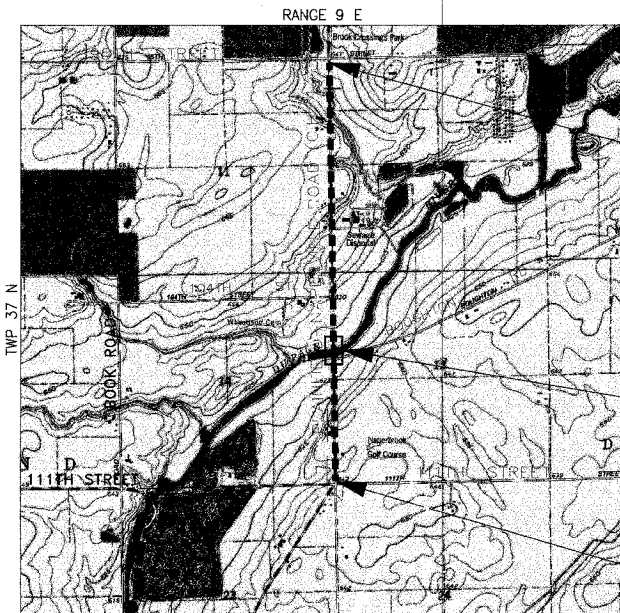
DESIGN DESIGNATION: ADT 23,700(05) ARTERIAL 10.0 (FP20)
DESIGN SPEED : 45 MPH

FEDERAL AID DESIGN ENGINEER - JESSICA FELICIANO (847) 705-4487
MCDONOUGH ASSOCIATES INC.

STATION EQUATION:
PT STA 76+41.15 ~ PLAINFIELD-NAPERVILLE RD. BK. =
PT STA 76+42.51 ~ PLAINFIELD-NAPERVILLE RD. AHD.



PLAN & PROFILE (HORIZONTAL) 1" = 40'
CROSS SECTION (HORIZONTAL) 1" = 10'
PROFILE/CROSS SECTION (VERTICAL) 1" = 5'



LOCATION MAP
N.T.S.

END PROJECT STA. 166+60.30
~ Plainfield/Naperville. (C.H. 14)

CONTRACT OMISSION
STA 97+00 TO STA 107+00

BEGIN PROJECT STA. 70+50.00
Q Plainfield/Naperville Rd. (C.H. 14)

GROSS LENGTH = 9608.94 FEET (1.82 MILES)
CONTRACT OMISSION = 1000 FEET (0.19 MILES)
NET LENGTH = 8608.94 FEET (1.63 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED Dec 18 2006
Sheldon C. Holt
COUNTY ENGINEER

PASSED JANUARY 3 2007
CH Holt
ENGINEER OF LOCAL ROADS & STREETS

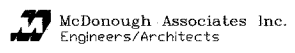
RELEASING FOR BID-BASED ON LIMITED REVIEW January 3 2007
Pierrre O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER



DEC 15 20 06
Timothy D. Werner
TIMOTHY D. WERNER, MCDONOUGH ASSOCIATES INC.
(708) 226-9261

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOR UTILITY INFORMATION CALL U.U.L.I.E. AT
1-800-892-0123 - 48 HOURS BEFORE DIGGING



FINAL
DECEMBER 15, 2006

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\COVER-SHT.dwg
PLOT DATE: 07/08/05 - 09:10

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	147	2
STA. _____		TO STA. _____		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83896

INDEX OF SHEETS

DRAWING NO. (REFERENCE)	SHEET NO.	DRAWING TITLE
	1	TITLE SHEET
	2	INDEX OF SHEETS AND STATE STANDARDS
	3	GENERAL NOTES
SQ1 - SQ10	4-13	SUMMARY OF QUANTITIES
SCI - SC4	14-17	SCHEDULE OF QUANTITIES (NOT IN THIS SUBMITTAL)
ALI - AL4	18-21	ALIGNMENT, TIES, AND BENCHMARKS (4 SHEETS)
TS1 - TS2	22-23	TYPICAL SECTIONS (2 SHEETS)
MOT1	24	MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
MOT2	25	MAINTENANCE OF TRAFFIC SIGN LEGEND
MOT3 - MOT6	26-29	TRAFFIC CONTROL STAGE 1 (4 SHEETS)
MOT7 - MOT11	30-34	TRAFFIC CONTROL STAGE 2 (5 SHEETS)
MOT12 - MOT16	35-39	TRAFFIC CONTROL STAGE 3 (5 SHEETS)
PP1	40	ROADWAY PLAN AND PROFILE STA 70+50 TO 78+00
PP2	41	ROADWAY PLAN AND PROFILE STA 78+00 TO 90+00
PP3	42	ROADWAY PLAN AND PROFILE STA 90+00 TO 102+00
PP4	43	ROADWAY PLAN AND PROFILE STA 102+00 TO STA 114+00
PP5	44	ROADWAY PLAN AND PROFILE STA 114+00 TO STA 126+00
PP6	45	ROADWAY PLAN AND PROFILE STA 126+00 TO STA 138+00
PP7	46	ROADWAY PLAN AND PROFILE STA 138+00 TO STA 150+00
PP8	47	ROADWAY PLAN AND PROFILE STA 150+00 TO STA 162+00
PP9	48	ROADWAY PLAN AND PROFILE STA 162+00 TO STA 174+00
PP10	49	INTERSECTION DETAILS - BOUGHTON RD-PN RD AND 104TH ST - PN RD
PP11	49A	SPRINGBROOK WATER RECLAMATION CENTER ENTRANCE - STA 137+00 TO STA 140+50
DRN1	50	DRAINAGE PLAN AND PROFILE STA 70+50 TO 78+00
DRN2	51	DRAINAGE PLAN AND PROFILE STA 78+00 TO 90+00
DRN3	52	DRAINAGE PLAN AND PROFILE STA 90+00 TO 102+00
DRN4	53	DRAINAGE PLAN AND PROFILE STA 102+00 TO STA 114+00
DRN5	54	DRAINAGE PLAN AND PROFILE STA 114+00 TO STA 126+00
DRN6	55	DRAINAGE PLAN AND PROFILE STA 126+00 TO STA 138+00
DRN7	56	DRAINAGE PLAN AND PROFILE STA 138+00 TO STA 150+00
DRN8	57	DRAINAGE PLAN AND PROFILE STA 150+00 TO STA 162+00
DRN9	58	DRAINAGE PLAN AND PROFILE STA 162+00 TO STA 174+00
DRN10 - DRN12	59-61	DRAINAGE NOTES (3 SHEETS)
DRN13	62	DRAINAGE NOTES AND MISCELLANEOUS DETAILS
DRN14	63	DRAINAGE AND REGRADING PLAN (WITH STREET TO STA 74+00)
TECO1 - TECO4	64-67	TEMPORARY EROSION CONTROL PLANS STAGE 1 (4 SHEETS)
TECO5 - TECO8	68-71	TEMPORARY EROSION CONTROL PLANS (4 SHEETS)
LS1 - LS4	72-75	LANDSCAPING AND EROSION CONTROL PLANS (4 SHEETS)
PM1 - PM5	76-79A	PAVEMENT MARKING PLANS AND DETAILS (5 SHEETS)
SO1 - S11	80-90	RETAINING WALL (11 SHEETS)
SI2 - SI4	91-93	SOIL BORING LOGS (3 SHEETS)
TSIG1	94	BOUGHTON ROAD TRAFFIC SIGNAL REMOVAL PLANS
TSIG2	95	BOUGHTON ROAD TRAFFIC SIGNAL PLANS
TSIG3	96	BOUGHTON ROAD CABLE PLANS
TSIG4	97	104TH STREET TRAFFIC SIGNAL REMOVAL PLANS
TSIG5	98	104TH STREET TRAFFIC SIGNAL PLANS
TSIG6	99	104TH STREET CABLE PLANS
TSIG7	99A	TRAFFIC SIGNALS SCHEDULE OF QUANTITIES
DET1 - DET3	100-102	JUNCTION CHAMBER DETAILS (3 SHEETS)
DET4	103	DRIVEWAY PIPE UNDERDRAIN DETAILS
DET5	103A	RETAINING WALL, SEGMENTAL BLOCK
DIST ONE BDO1	104	DRIVEWAY DETAILS DISTANCE BETWEEN ROW AND FACE OF CURB/EDGE OF SHOULDER > 15' (BD 01)
DIST ONE BDO2	105	DRIVEWAY DETAILS DISTANCE BETWEEN ROW AND FACE OF CURB/EDGE OF SHOULDER < 15' (BD 02)
DIST ONE BD34	106	DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO C&G (BD 34)
DIST ONE BD36	107	FIRE HYDRANT TO BE MOVED (BD 36) N.I.C.
DIST ONE BD37	108	MANHOLE TYPE A 7 FT. DIAMETER (BD 37)
DIST ONE TC10	109	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC 10)
DIST ONE TC11	110	TYPICAL APPLICATIONS FOR RAISED REFLECTIVE PAVEMENT MARKERS (TC 11)
DIST ONE TC13	111	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC 13)
DIST ONE TC16	112	PAVEMENT MARKINGS LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC 16)
DIST ONE TS02	113	MAST ARM MOUNTED STREET NAME SIGNS (TS02) N.I.C.
DIST ONE TS02	114	MAST ARM MOUNTED STREET NAME SIGNS (TS02B) N.I.C.
DIST ONE TS05	115	TRAFFIC SIGNAL DESIGN DETAILS (TS 05)
DIST ONE TS05	116	TRAFFIC SIGNAL DESIGN DETAILS (TS 05)
DIST ONE TS05	117	TRAFFIC SIGNAL DESIGN DETAILS (TS 05)
DIST ONE TS05	118	TRAFFIC SIGNAL DESIGN DETAILS (TS 05)
XSEC01 - XSEC23	119-141	CROSS SECTIONS (23 SHEETS)
XSEC24	142	CROSS SECTIONS (WITH ST. TO STA 71+62)
XSEC25	142A	SWRC ENTRANCE - CROSS SECTIONS (STA 10+50 TO STA 11+50)
XSEC26	142B	SWRC ENTRANCE - CROSS SECTIONS (STA 12+00 TO STA 13+50)
E1 - E5	143-147	BOUGHTON ROAD STREET LIGHTING PLANS


STATE STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS (8 SHEETS)
280001-03	TEMPORARY EROSION CONTROL SYSTEMS (3 SHEETS)
424001-04	CURB RAMPS FOR SIDEWALKS (2 SHEETS)
442201-02	CLASS C AND D PATCHES
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-01	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED FLARED END SECTION
542311	GRATING FOR CONCRETE FLARED SECTION FOR 600 mm (24") THRU 1300 mm (54") PIPE (2 SHEETS)
542401	METAL END SECTION FOR PIPE CULVERTS
601001-01	SUB-SURFACE DRAINS (2 SHEETS)
602001	CATCH BASIN, TYPE A
602011	CATCH BASIN, TYPE C
602301-01	INLET, TYPE A
602401-01	MANHOLE, TYPE A
602406-02	MANHOLE, TYPE A, 1800 mm (72") DIAMETER (2 SHEETS)
602601-01	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-01	CAST IRON STEPS
604001-02	FRAMES AND LIDS, TYPE 1
604036-01	GRATE, TYPE 8
604086-01	FRAME AND GRATE, TYPE 23
604091-01	FRAME AND GRATE, TYPE 24
606001-03	CONCRETE CURB TYPE B & COMBINATION CONCRETE CURB AND GUTTER (2 SHEETS)
630001-07	STEEL PLATE BEAM GUARDRAIL (4 SHEETS)
630101-07	GUARDRAIL MOUNTED ON EXISTING CULVERTS (2 SHEETS)
630201-04	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
631011-03	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-03	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-01	TRAFFIC BARRIER TERMINAL, TYPE 6 (3 SHEETS)
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS (3 SHEETS)
664001-01	CHAIN LINK FENCE (3 SHEETS)
701001-01	OFF-ROAD OPERATION 2L, 2W, 4.5 m (15') MIN. AWAY FOR SPEEDS ≥ 45 MPH
701006-02	OFF-ROAD OPERATION 2L, 2W, 4.5 m (15') TO PAVEMENT EDGE FOR SPEEDS ≥ 45 MPH
701011-01	OFF-ROAD MOVING OPERATIONS 2L, 2W DAY ONLY FOR SPEEDS ≥ 45 MPH
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY ON-ROAD TO 600 mm (24") OFF-ROAD FOR SPEEDS ≥ 45 MPH
701206-01	LANE CLOSURE, 2L, 2W, NIGHT ONLY ON-ROAD TO 600 mm (24") OFF-ROAD FOR SPEEDS ≥ 45 MPH
701301-02	LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
701306-01	LANE CLOSURE, 2L, 2W SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS ≥ 45 MPH
701311-02	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701326-02	LANE CLOSURE, 2L, 2W PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH
701336-01	LANE CLOSURE, 2L, 2W WORK AREAS IN SERIES FOR SPEEDS ≥ 45MPH
701426-02	LANE CLOSURE MULTILANE INTERMITTENT OR MOVING OPERATION FOR SPEEDS ≥ 45 MPH
701501-03	URBAN LANE CLOSURE 2L, 2W UNDIVIDED
701606-01	URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-01	URBAN LANE CLOSURE MULTILANE INTERSECTION
702001-01	TRAFFIC CONTROL DEVICES (3 SHEETS)
720016-01	MAST ARM MOUNTED STREET NAME SIGNS
805001	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-01	CONCRETE HANDHOLES
814006-01	DOUBLE HANDHOLES
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES (2 SHEETS)
877001-02	STEEL MAST ARM ASSEMBLY AND POLE
877011-01	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
878001-03	CONCRETE FOUNDATION DETAILS (2 SHEETS)
880006	TRAFFIC SIGNAL MOUNTING DETAILS
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPICAL LAYOUT FOR DETECTION LOOPS

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
INDEX OF SHEETS AND STATE STANDARDS

 McDonough Associates Inc. Engineers/Architects	DESIGNED BY: N.J.L. CHECKED BY: J.T.F. DRAWN BY: J.T.F.	SCALE: N.T.S.
---	---	------------------

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	147	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 83896

GENERAL NOTES

- 1 ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING STATE OF ILLINOIS STANDARD SPECIFICATIONS: THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2002, THE LATEST EDITION OF THE "ILLINOIS URBAN MANUAL", THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE MANUAL OF TEST PROCEDURES FOR MATERIALS, THE LATEST EDITION OF THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, AND THE DETAILS AND SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- 2 THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) 72 HOURS BEFORE EXCAVATION. FOR UNDERGROUND UTILITY LOCATIONS, UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.
- 3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ABOVE AND BELOW GROUND UTILITIES, EVEN THOUGH THEY MAY APPEAR ON THE PLANS. ANY DAMAGE DONE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- 4 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO BIDDING OF THE PROJECT.
- 5 THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- 6 FINAL HMA CONCRETE SURFACE COURSE SHALL NOT BE PLACED UNTIL ALL OTHER WORK IS COMPLETE OR AS DIRECTED BY THE ENGINEER.
- 7 THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING WORK AND COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION.
- 8 LENGTHS AND SIZES OF STORM SEWERS AS SHOWN ON THE PLANS AND DRAINAGE STRUCTURE GRADES SHALL BE VERIFIED IN THE FIELD PRIOR TO THE INSTALLATION OF DRAINAGE ITEMS. GRADES OF SEWER LINES WERE DETERMINED FROM AVAILABLE DESIGN PLANS. THE INVERTS OF PROPOSED DRAINAGE MAY REQUIRE REVISION TO MEET EXISTING FIELD CONDITIONS. ANY ADJUSTMENTS SHALL BE AS DIRECTED BY THE ENGINEER.
- 9 THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE WILL COUNTY DEPARTMENT OF HIGHWAYS, LOCAL AGENCIES AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- 10 WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- 11 UNLESS OTHERWISE NOTED, OFFSETS TO MANHOLE AND JUNCTION CHAMBERS ARE TO THE CENTER OF THE STRUCTURE, AND OFFSETS AND RIM ELEVATIONS FOR CATCH BASINS AND INLETS ARE TO THE EDGE OF PAVEMENT.
- 12 ALL TYPE A CATCH BASINS SHALL BE 4.0 FT DIAMETER UNLESS OTHERWISE NOTED.

13 THE REMOVAL OF EXISTING CONCRETE HEADWALLS AND /OR END SECTIONS WILL BE INCLUDED IN THE COST OF THE PIPE REMOVALS.

14 THE CONTRACTOR SHALL MAINTAIN THE SURFACE DRAINAGE OF THE ROAD DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWER INLETS OR CATCH BASINS. HE/SHE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE AND SEWERS DISCHARGE THE SAME. HE/SHE SHALL PROVIDE AND MAINTAIN A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT, UNLESS OTHERWISE NOTED ON PLANS.

15 THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR STEEL PLATE BEAM GUARDRAIL REMOVAL.

16 THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT AT FULL DEPTH PRIOR TO REMOVING EXISTING PAVEMENT, CURB AND GUTTER, SEWERS OR ANY OTHER ITEM BEING REMOVED OR INSTALLED. THE COST OF FULL DEPTH SAW CUT SHALL BE INCLUDED IN THE ITEM BEING REMOVED/INSTALLED.

17 THE CONTRACTOR IS TO MAINTAIN ACCESS TO ABUTTING PROPERTY OWNERS AT ALL TIMES, EXCEPT FOR SHORT PERIODS OF TIME. WHEN ACCESS IS GOING TO BE INTERRUPTED, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER NO LESS THAN 24 HOURS IN ADVANCE OF THE INTERRUPTION AND SHALL NOTIFY THE OWNER OF THE TIME AND DURATION OF THE INTERRUPTION.

18 BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR II BARRICADE USED-ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.

19 THE REMOVAL OF PAVEMENT MARKING TAPE, TYPE III, 4" WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID PER FOOT FOR PAVEMENT MARKING TAPE TYPE III, 4".

20 AGGREGATE SHOULDER REMOVAL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE EARTH EXCAVATION QUANTITY, AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "EARTH EXCAVATION".

21 EXISTING CONDITIONS WERE TAKEN FROM THE BEST AVAILABLE INFORMATION. INFORMATION SHOWN CONCERNING FEATURES AND UTILITIES IS NOT GUARANTEED ALL INCLUSIVE OR CORRECT. THE CONTRACTOR SHALL VERIFY THE FEATURES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE AT ALL TIMES, UNLESS NOTED OTHERWISE ON THE PLANS. THE LOCATION, MATERIAL AND DIMENSIONS OF EXISTING FACILITIES AND OBSTRUCTIONS ARE BASED UPON AVAILABLE RECORDS AND ARE SHOWN ON THE PLANS STRICTLY AS AN AID TO THE CONTRACTOR, BUT MUST NOT BE CONSTRUED AS BEING ACCURATE, CORRECT OR COMPLETE.

22 A POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGES AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

23 IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN, STOCK, RE-ERECT TEMPORARILY AND/OR REPLACE AT PERMANENT LOCATIONS ALL EXISTING SIGNING AS NOTED THEREIN AS DIRECTED BY THE ENGINEER.

24 THE CONTRACTOR WILL BE REQUIRED TO INSTALL CURB RAMPS AT LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH STANDARD DETAILS INCLUDED HEREIN AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT. THE WORK SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID PER SQUARE FOOT FOR P.C.C. SIDEWALK, 5".

25 HMA STABILIZATION 6" @ STEEL PLATE BEAM GUARD RAIL WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER SQUARE YARD FOR ASPHALT SHOULDERS 6".

26 THE MAXIMUM COMPACTED THICKNESS OF ANY LIFT OF BINDER OR SURFACE COURSE SHALL BE 2-1/2 INCHES.

27 THE MAXIMUM COMPACTED THICKNESS OF A LIFT OF BASE COURSE WILL BE 4 INCHES UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

28 BASE COURSE SHALL NOT BE PLACED ADJACENT TO CURB AND GUTTER UNTIL THE CURB AND GUTTER HAS BEEN PROPERLY BACKFILLED TO THE SATISFACTION OF THE ENGINEER.


29 REFER TO NOTE 2 ON TYPICAL SECTION DRAWING NO. TSI.

30 STORM SEWER PIPE ELBOWS AS NOTED AT LOCATIONS IN THE PLANS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID PER FOOT FOR STORM SEWER, OF THE TYPE AND SIZE SPECIFIED.

31 THE CONTRACTOR WILL BE REQUIRED TO CORE DRILL EXISTING STORM SEWERS WHEN MAKING PROPOSED STORM SEWER CONNECTIONS AT LOCATIONS SO NOTED IN THE PLANS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID PER FOOT FOR STORM SEWER, OF THE SIZE SPECIFIED.

EROSION CONTROL NOTES

- 1 ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED PER IDOT STANDARD 280001 AND PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT ILR10.
- 2 EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL.
- 3 SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.
- 4 ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. AREAS THAT HAVE BEEN STRIPPED AND WILL NOT RECEIVE PERMANENT LANDSCAPING BEFORE THE END OF THE FALL SEEDING RESTRICTION SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING IN ACCORDANCE WITH SPECIAL PROVISIONS.
- 5 THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT WETLANDS FROM DAMAGE BY SEDIMENT, CONSTRUCTION EQUIPMENT OR BY HIS WORK CREWS. THE CONTRACTOR SHALL ASSURE THAT DEBRIS OR ANY CONSTRUCTION MATERIAL IS NOT DISPOSED OF IN WETLANDS.
- 6 WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
- 7 GRAVEL ROADS, ACCES DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL, FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY OR AS NEEDED.
- 8 EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER PERIODICALLY AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2 INCH PRECIPITATION. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WITHIN 72 HOURS.
- 9 ALL CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14) ROADWAY RECONSTRUCTION GENERAL NOTES			
		DESIGNED BY: CHECKED BY: N.J.L. DRAWN BY: J.T.F.	SCALE: N.T.S.
NO.	DATE	REVISION	BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FF	WILL	147	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83896

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1	RETAINING WALLS	TRAFFIC SIGNALS 1	TRAFFIC SIGNALS 2	NON-PARTICIPATING					
				CONSTRUCTION TYPE CODE									
				BOUGHTON RD	104TH ST	BIKE TRAIL	BOLINGBROOK						
1000-2A	Y007	Y031-1F	Y031-1F	Y046									
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	90	90									
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	387	387									
20101000	TEMPORARY FENCE	FOOT	784	784									
20101100	TREE TRUNK PROTECTION	EACH	4	4									
20200100	EARTH EXCAVATION	CU YD	30615	30615									
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1916	1916									
20400800	FURNISHED EXCAVATION	CU YD	1188	1188									
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1500	1500									
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	662	662									
20800150	TRENCH BACKFILL	CU YD	6125	6124.9									
* 21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	9137	9137									
* 25000210	SEEDING, CLASS 2A	ACRE	3.50	3.5									
* 25000312	SEEDING, CLASS 4A	ACRE	1.00	0.5									
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	562	562									
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	562	562									
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	562	562									
* 25100115	MULCH, METHOD 2	ACRE	7.00	7									
* 25100630	EROSION CONTROL BLANKET	SQ YD	17764	17764									
* 25200110	SODDING, SALT TOLERANT	SQ YD	17816	17816									
* 25200200	SUPPLEMENTAL WATERING	UNIT	161	161									
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	700	700									
* X2800100	TEMPORARY DITCH CHECKS, ROLLED EXCELSIOR	EACH	27	27									
* 28000400	PERIMETER EROSION BARRIER	FOOT	16788	16788									
28000500	INLET AND PIPE PROTECTION	EACH	26	26									
28100109	STONE RIPRAP, CLASS A5	SQ YD	46	46									
28200200	FILTER FABRIC	SQ YD	46	46									

- DENOTES SPECIALTY ITEM
- ROADWAY - 80% FEDERAL 20% LOCAL
- RETAINING WALLS - 80% FEDERAL 20% LOCAL
- NON-PARTICIPATING - 100% LOCAL

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 SUMMARY OF QUANTITIES

McDonough Associates Inc. ENGINEERS/ARCHITECTS
 DESIGNED BY: N.J.L.
 CHECKED BY: R.E.
 DRAWN BY: R.E.
 SCALE: N.T.S.

SG1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-PP	WILL	147	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83896

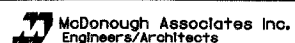
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1	RETAINING WALLS	TRAFFIC SIGNALS 1	TRAFFIC SIGNALS 2	NON-PARTICIPATING			
				CONSTRUCTION TYPE CODE						BOLINGBROOK	
				1000-2A	Y007	Y031-1F	104TH ST	BIKE TRAIL			
35501308	HMA BASE COURSE, 6"	SQ YD	669	669							
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	32650	32650							
40600300	AGGREGATE (PRIME COAT)	TON	100	100							
40603080	HMA BINDER COURSE, IL-19.0, N50	TON	31	31							
40603085	HMA BINDER COURSE, IL-19, N70	TON	51816	51029				787			
40603310	HMA SURFACE COURSE, MIX "C", N50	TON	124	124							
40603340	HMA SURFACE COURSE, MIX D, N70	TON	8328	7646				682			
42001300	PROTECTIVE COAT	SQ YD	6059	6058.634							
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1544	1544							
42400800	DETECTABLE WARNING	SQ FT	180	180							
44000100	PAVEMENT REMOVAL	SQ YD	35032	35032							
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1318	1318							
44000300	CURB REMOVAL	FOOT	552	552							
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2018	2018							
44000600	SIDEWALK REMOVAL	SQ FT	2450	2450							
44000920	BITUMINOUS CONCRETE SHOULDER REMOVAL	SQ YD	538	538							
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1635	1635							
48203021	HMA SHOULDERS 6"	SQ YD	175	175							
50105220	PIPE CULVERT REMOVAL	FOOT	1608	1608							
50200100	STRUCTURE EXCAVATION	CU YD	2310		2310						
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	100		100						
50300225	CONCRETE STRUCTURES	CU YD	917		917.3						
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	96050		96050						
50900105	ALUMINUM RAILING, TYPE L	FOOT	853		853						
51201400	FURNISHING STEEL PILES HP10X42	FOOT	7183		7183						
51203400	TEST PILE STEEL HP10X42	EACH	4		4						

- DENOTES SPECIALTY ITEM
- ROADWAY - 80% FEDERAL 20% LOCAL
- RETAINING WALLS - 80% FEDERAL 20% LOCAL
- NON-PARTICIPATING - 100% LOCAL

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
SUMMARY OF QUANTITIES


 McDonough Associates Inc.
Engineers/Architects

DESIGNED BY: N.J.L.
 CHECKED BY: N.J.L.
 DRAWN BY: R.E.

SCALE: N.T.S.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	147	6
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83896

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1	RETAINING WALLS	TRAFFIC SIGNALS 1	TRAFFIC SIGNALS 2	CONSTRUCTION TYPE CODE			NON-PARTICIPATING
								BOUGHTON RD	104TH ST	BIKE TRAIL	BOLINGBROOK
				1000-2A	Y007	Y031-1F	Y031-1F	Y046			
51204650	Pile SHOES	EACH	457		457						
51205200	TEMPORARY SHEET PILING	SQ FT	2673		2673						
54200463	PIPE CULVERTS, TYPE 1 RCCP 48"	FOOT	76	76							
5421D015	PIPE CULVERTS, CLASS D, TYPE 1 15" (TEMPORARY)	FOOT	84	84							
5421D018	PIPE CULVERTS, CLASS D, TYPE 1 18" (TEMPORARY)	FOOT	20	20							
5421D024	PIPE CULVERTS, CLASS D, TYPE 1 24" (TEMPORARY)	FOOT	14	14							
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	5	5							
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1							
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1							
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1							
54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	1	1							
54214533	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 48"	EACH	1	1							
54215550	METAL END SECTIONS 15"	EACH	5	5							
54215553	METAL END SECTIONS 18"	EACH	2	2							
54215559	METAL END SECTIONS 24"	EACH	1	1							
54223447	REMOVE AND RELAY PIPE CULVERTS 12"	FOOT	50	50							
54247100	GRATING FOR CONCRETE FLARED END SECTION 15"	EACH	1	1							
54247110	GRATING FOR CONCRETE FLARED END SECTION 18"	EACH	1	1							
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	1	1							
54247190	GRATING FOR CONCRETE FLARED END SECTION 48"	EACH	1	1							
54248180	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 48"	EACH	1	1							
55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	FOOT	2073	2073							
55019600	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 15"	FOOT	58	58							
55019700	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 18"	FOOT	263	263							
55019800	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 21"	FOOT	190	190							
55019900	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 24"	FOOT	315	315							

- * DENOTES SPECIALTY ITEM
- ** ROADWAY - 80% FEDERAL 20% LOCAL
- RETAINING WALLS - 80% FEDERAL 20% LOCAL
- NON-PARTICIPATING - 100% LOCAL

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
SUMMARY OF QUANTITIES


 McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: N.J.L.
 CHECKED BY: R.E.
 DRAWN BY: R.E.


SCALE: N.T.S.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	147	7
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83896

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1	RETAINING WALLS	TRAFFIC SIGNALS 1	TRAFFIC SIGNALS 2	NON-PARTICIPATING				
				CONSTRUCTION TYPE CODE								
				1000-2A	Y007	BOUGHTON RD Y031-1F	104TH ST Y031-1F	BIKE TRAIL Y046	BOLINGBROOK			
55020000	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 27"	FOOT	38	38								
55020500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS II 48"	FOOT	580	580								
55021600	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 12"	FOOT	2444	2444								
55021700	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 15"	FOOT	851	851								
55021800	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 18"	FOOT	506	506								
55021900	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 21"	FOOT	370	370								
55022000	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 24"	FOOT	312	312								
55022100	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 27"	FOOT	100	100								
55022200	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 30"	FOOT	120	120								
55022300	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 33"	FOOT	100	100								
55022400	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 36"	FOOT	1178	1178								
55022500	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 42"	FOOT	142	142								
55034700	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 53, RISE 34	FOOT	465	465								
55034800	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 60, RISE 38	FOOT	1100	1100								
55034900	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 68, RISE 43	FOOT	458	458								
55035200	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 91, RISE 58	FOOT	192	192								
55035800	STORM SEWERS, TYPE 2, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 53, RISE 34	FOOT	502	502								
55036000	STORM SEWERS, TYPE 2, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 68, RISE 43	FOOT	220	220								
55036300	STORM SEWERS, TYPE 2, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 91, RISE 58	FOOT	102	102								
55037400	STORM SEWERS, TYPE 3, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 91, RISE 58	FOOT	246	246								
55100500	STORM SEWER REMOVAL 12"	FOOT	36	36								
55100900	STORM SEWER REMOVAL 18"	FOOT	62	62								
55101200	STORM SEWER REMOVAL 24"	FOOT	74	74								
55101900	STORM SEWER REMOVAL 48"	FOOT	10	10								
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	720			720						
60100915	PIPE DRAINS 6"	FOOT	22			22						

- DENOTES SPECIALTY ITEM
- ROADWAY - 80% FEDERAL 20% LOCAL
- RETAINING WALLS - 80% FEDERAL 20% LOCAL
- NON-PARTICIPATING - 100% LOCAL


WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
SUMMARY OF QUANTITIES			
 McDonough Associates Inc. Engineers/Architects		DESIGNED BY: CHECKED BY: N.J.L. DRAWN BY: R.E.	SCALE: N.T.S.
NO.	DATE	REVISION	BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	147	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83896

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1	RETAINING WALLS	TRAFFIC SIGNALS 1	TRAFFIC SIGNALS 2	CONSTRUCTION TYPE CODE			NON-PARTICIPATING	
								BOUGHTON RD	104TH ST	BIKE TRAIL	BOLINGBROOK	
				I000-2A	Y007	Y031-IF	Y031-1F	Y046				
60107700	PIPE UNDERDRAINS 6"	FOOT	440	440								
60109582	PIPE UNDERDRAINS FOR STRUCTURES 6"	FOOT	841		841							
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	2	2								
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	112	112								
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1								
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	16	16								
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	20	20								
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2								
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	13	13								
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	5	5								
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	3	3								
60247900	JUNCTION CHAMBER, SPECIAL	EACH	4	4								
60248000	JUNCTION CHAMBER, NO. 1	EACH	7	7								
60248100	JUNCTION CHAMBER, NO. 2	EACH	6	6								
60255500	MANHOLES TO BE ADJUSTED	EACH	12	12								
60256940	MANHOLES TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	2	2								
60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1								
60261540	INLETS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	4	4								
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	3	3								
60500040	REMOVING MANHOLES	EACH	2	2								
60500060	REMOVING INLETS	EACH	4	4								
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	173	173								
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	22784	22784								
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	125	125								
* 63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	37.5	37.5								
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1								

- DENOTES SPECIALTY ITEM
- ROADWAY - 80% FEDERAL 20% LOCAL
- RETAINING WALLS - 80% FEDERAL 20% LOCAL
- NON-PARTICIPATING - 100% LOCAL

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
SUMMARY OF QUANTITIES			
 McDonough Associates Inc. Engineers/Architects		DESIGNED BY: CHECKED BY: N.J.L. DRAWN BY: R.E.	SCALE: N.T.S.
NO.	DATE	REVISION	BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	47	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 83896


CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1	RETAINING WALLS	TRAFFIC SIGNALS 1	TRAFFIC SIGNALS 2	CONSTRUCTION TYPE CODE			NON-PARTICIPATING	
								BOUGHTON RD	104TH ST	BIKE TRAIL	BOLINGBROOK	
				1000-2A	Y007	Y031-1F	Y031-1F	Y046				
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1								
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1								
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	1	1								
63200305	STEEL PLATE BEAM GUARD RAIL REMOVAL	FOOT	1025	1025								
* 63300740	TEMPORARY GUARD RAIL	FOOT	350	350								
66410400	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	110	110								
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	24	24								
67100100	MOBILIZATION	L SUM	1	1								
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1								
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	40	40								
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	473	473.2								
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	34305	34305								
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1540	1540								
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	640	640								
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	454	454								
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	232	232								
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	45876	45876								
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	15500	15500								
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	546	546								
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	38010	38010								
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2937	2937								
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2099	2099								
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	372	372								
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	876	876								

- * DENOTES SPECIALTY ITEM
- ** ROADWAY - 80% FEDERAL 20% LOCAL
- RETAINING WALLS - 80% FEDERAL 20% LOCAL
- NON-PARTICIPATING - 100% LOCAL

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
SUMMARY OF QUANTITIES


 McDonough Associates Inc. Engineers/Architects	DESIGNED BY:	SCALE:
	CHECKED BY: N.J.L. DRAWN BY: R.E.	N.T.S.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	147	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 83896

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1	RETAINING WALLS	TRAFFIC SIGNALS 1	TRAFFIC SIGNALS 2	CONSTRUCTION TYPE CODE			NON-PARTICIPATING	
								BOUGHTON RD	104TH ST	BIKE TRAIL	BOLINGBROOK	
				1000-2A	Y007	Y031-IF	Y031-IF	Y046				
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	22	22								
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1								
78300100	PAVEMENT MARKING REMOVAL	SQ FT	7434	7434								
* 81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	931			381	550					
* 81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	92			28	64					
* 81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10				10					
* 81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED	FOOT	293			228	65					
* 81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	927	362		257	308					
* 81300710	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 12" X 6"	EACH	2			1	1					
* 81400200	HEAVY-DUTY HANDHOLE	EACH	6			2	4					
* 81400300	DOUBLE HANDHOLE	EACH	2			1	1					
* 81603200	UNIT DUCT, WITH 3-1/2" NO. 2 & 1/2" NO. 6 GRD, 600V EPR TYPE RHW, 1 1/4" POLYETHYLENE	FT	2056	2056								
* 81702415	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/2" NO. 6	FOOT	60				60					
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2595	1567		409	619					
* 82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	7	7								
* 83007600	LIGHT POLE, ALUMINUM, 35 FT., M.H., 15 FT. MAST ARM	EACH	8	8								
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	77	77								
* 83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	7	7								
* 84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	8	8								
* 84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	3			3						
* 85000300	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	L SUM	1			1						
* 85000400	MAINTENANCE OF TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1				1					
* 85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1				1					
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2930			2124	806					
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2321			681	1640					

- * DENOTES SPECIALTY ITEM
- ** ROADWAY - 80% FEDERAL 20% LOCAL
- RETAINING WALLS - 80% FEDERAL 20% LOCAL
- NON-PARTICIPATING - 100% LOCAL

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
SUMMARY OF QUANTITIES			
 McDonough Associates Inc. Engineers/Architects		DESIGNED BY: CHECKED BY: N.J.L. DRAWN BY: R.E.	SCALE: N.T.S.
NO.	DATE	REVISION	BY

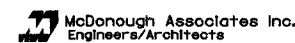
SQ 7

F.A. RT.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	147	11
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83896

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1	RETAINING WALLS	TRAFFIC SIGNALS 1	TRAFFIC SIGNALS 2	NON-PARTICIPATING					
				CONSTRUCTION TYPE CODE									
				I000-2A	Y007	BOUGHTON RD Y031-1F	104TH ST Y031-1F	BIKE TRAIL Y046	BOLINGBROOK				
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2119			1290	829						
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2301			680	1621						
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3841			1245	2596						
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	35				35						
* 87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	1			1							
* 87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	1				1						
* 87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	7			3	4						
* 87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1			1							
* 87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	5			1	4						
* 87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1				1						
* 87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	2			1	1						
* 87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1				1						
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6			3	3						
* 87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3				3						
* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30			20	10						
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37				37						
* 87900200	DRILL EXISTING HANDHOLE	EACH	2			1	1						
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4				4						
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3				3						
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5				5						
* 88102710	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2				2						
* 88102740	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	3				3						
* 88200100	TRAFFIC SIGNAL BACKPLATE	EACH	16			7	9						
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	13			5	8						
* 88600100	DETECTOR LOOP, TYPE I	FOOT	1810			670	1140						
* 88700200	LIGHT DETECTOR	EACH	2				2						

- DENOTES SPECIALTY ITEM
- ROADWAY - 80% FEDERAL 20% LOCAL
- RETAINING WALLS - 80% FEDERAL 20% LOCAL
- NON-PARTICIPATING - 100% LOCAL

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
SUMMARY OF QUANTITIES			
 McDonough Associates Inc. Engineers/Architects		DESIGNED BY: CHECKED BY: N.J.L. DRAWN BY: R.E.	SCALE: N.T.S.
NO.	DATE	REVISION	BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	147	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83896


CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1	RETAINING WALLS	TRAFFIC SIGNALS 1	TRAFFIC SIGNALS 2	CONSTRUCTION TYPE CODE			NON-PARTICIPATING	
								BOUGHTON RD	104TH ST	BIKE TRAIL	BOLINGBROOK	
				1000-2A	Y007	Y031-1F	Y031-1F	Y046				
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1					1				
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	5					5				
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1			1						
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			1						
* 89502380	REMOVE EXISTING HANDHOLE	EACH	7			7						
* 89502500	REMOVE TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1					1				
* A2000620	TREE, ACER PLATANOIDES (NORWAY MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	8								8	
* A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	64								64	
* A2004420	TREE, GINKGO BILOBA (GINKGO), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	8								8	
* A2004620	TREE, GLEDITSIA TRIACANTHOS INERMIS (THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	9								9	
* A2008820	TREE, ULMUS CARPINIFOLIA (HOMESTEAD ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	8								8	
* B2005616	TREE, PYRUS CALLERYANA BRADFORD (BRAD FORD CALLERY PEAR), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	8								8	
X0301394	REMOVE STORM SEWER PLUG	EACH	57	57								
X0322033	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	24	24								
X0322643	STORM SEWER (WATER MAIN REQUIREMENTS) SPAN 68, RISE 43	FOOT	24	24								
* X0323153	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 IC (GREEN)	FOOT	954			450	504					
* X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	12	12								
51202305	DRIVING PILES	FOOT	7183	7183								
X0325560	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER	EACH	12	12								
X0712400	TEMPORARY PAVEMENT	SQ YD	14483	14483								
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	9	9								
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	2	2								
X4023000	TEMPORARY ACCESS (ROAD)	EACH	7	7								
* X8050015	SERVICE INSTALLATION POLE MOUNTED	EACH	1					1				
* X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1166			360	806					
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	72217	72217								

- DENOTES SPECIALTY ITEM
- ** ROADWAY - 80% FEDERAL 20% LOCAL
- RETAINING WALLS - 80% FEDERAL 20% LOCAL
- NON-PARTICIPATING - 100% LOCAL

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
SUMMARY OF QUANTITIES

 McDonough Associates Inc. Engineers/Architects	DESIGNED BY: N.J.L. CHECKED BY: R.E. DRAWN BY: R.E.	SCALE: N.T.S.
---	---	------------------

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	147	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83896

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1	RETAINING WALLS	TRAFFIC SIGNALS 1	TRAFFIC SIGNALS 2	CONSTRUCTION TYPE CODE			NON-PARTICIPATING	
								BOUGHTON RD	104TH ST	BIKE TRAIL	BOLINGBROOK	
				I000-2A	Y007	Y031-1F	Y031-1F	Y046				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1								
* Z0007600	BUILDING REMOVAL	L SUM	1	1								
Z0041700	PLUG EXISTING STORM SEWERS	EACH	40	40								
Δ Z0076600	TRAINEES	HOUR	2000	2000								
* XO323574	MAINTENANCE OF LIGHTING SYSTEMS	CAL MO	24	24								
* XX003338	TEST HOLES	EACH	2	2								
* XX003453	REMOVAL OF EXISTING AERIAL CABLE ASSEMBLY, NO SALVAGE	FOOT	1000			500	500					
XX003817	GRATING FOR CONCRETE FLARED END SECTION 12"	EACH	5	5								
XX006924	AGGREGATE BASE COURSE, TYPE A, 15"	SQ YD	263	263								
XX006925	AGGREGATE SUBGRADE 9"	SQ YD	6075						6075			
* XX006926	ILLUMINATED STREET NAME SIGN	EACH	1			1						
* XX006927	RELOCATE INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2	2								
* XX006928	REMOVAL OF STREET LIGHT POLE, SALVAGE	EACH	7			3	4					
* XX006929	REPLACE SECTION CORNER	EACH	3	3								
XX006930	SEGMENTAL RETAINING WALL	SQ FT	100	100								
* 87002230	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 44 FT.	EACH	1				1					
XX006931	STORM SEWER (WATER MAIN REQUIREMENTS) SPAN 53, RISE 34	FOOT	24	24								


Δ Y080
• DENOTES SPECIALTY ITEM

•• ROADWAY - 80% FEDERAL 20% LOCAL
RETAINING WALLS - 80% FEDERAL 20% LOCAL
NON-PARTICIPATING - 100% LOCAL

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
SUMMARY OF QUANTITIES

 McDonough Associates Inc.
Engineers/Architects

DESIGNED BY:	CHECKED BY: N.J.L.	SCALE:
DRAWN BY: R.E.		N.T.S.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	147	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 83896

EARTHWORK SCHEDULE

STATION - STATION	UNDERCUT AND PGES PLACEMENT			UNSUITABLE MATERIAL (TOPSOIL)*			EARTH EXCAVATION			EARTH EXCAVATION (ADJUSTED)**			EMBANKMENT			EARTHWORK BALANCE		
	CU YD			CU YD			CU YD			CU YD			CU YD			CU YD		
	STAGE I	STAGE II	STAGE III	STAGE I	STAGE II	STAGE III	STAGE I	STAGE II	STAGE III	STAGE I	STAGE II	STAGE III	STAGE I	STAGE II	STAGE III	STAGE I	STAGE II	STAGE III
70+00.00 - 74+00.00	0	0	0	56	22	-36	19	879	840	16	747	714	26	204	186	-10	543	528
75+00.00 - 77+29.87	0	0	0	89	79	-23	28	652	604	24	554	513	55	73	108	-31	481	405
78+00.00 - 82+00.00	0	0	0	283	181	-61	140	882	792	119	750	673	169	156	236	-50	594	437
83+00.00 - 85+00.00	0	0	0	225	101	-89	561	691	619	477	587	526	51	50	168	426	537	358
86+00.00 - 90+00.00	0	0	0	366	198	-72	342	606	938	291	515	797	273	804	232	18	-289	565
91+00.00 - 94+00.00	0	0	0	230	94	-110	46	715	785	39	608	667	341	335	86	-302	273	581
95+00.00 - 97+00.00	0	0	0	26	0	-24	4	289	505	3	246	429	35	126	17	-32	120	412
107+00.00 - 109+00.00	0	57	43	163	53	-62	14	389	231	12	331	196	339	163	263	-327	168	-67
110+00.00 - 115+00.00	0	305	257	240	138	-118	49	553	548	42	470	466	217	635	346	-175	-165	120
115+78.15 - 118+00.00	0	0	0	136	64	-73	136	433	483	116	368	411	33	203	110	83	165	301
119+00.00 - 123+00.00	0	0	0	294	118	-139	439	923	746	373	785	634	52	106	224	321	679	410
124+00.00 - 127+00.00	0	0	0	264	119	-109	468	635	553	398	540	470	4	176	104	394	364	366
128+00.00 - 130+80.00	0	0	0	207	119	-70	20	263	480	17	224	408	507	366	96	-490	-142	312
131+00.00 - 134+00.00	0	0	0	164	142	-56	42	316	410	36	269	349	258	317	282	-222	-48	67
134+81.31 - 138+15.78	0	0	0	267	83	-89	229	797	501	195	678	426	119	57	285	76	621	141
139+00.00 - 143+00.00	0	0	0	164	115	-91	212	1049	805	180	892	684	14	35	132	166	857	552
143+06.25 - 147+00.00	0	0	0	304	159	-114	273	1259	915	232	1070	778	88	22	190	144	1048	588
148+00.00 - 151+00.00	0	0	0	225	160	-55	55	667	689	47	567	586	504	102	271	-457	465	315
152+00.00 - 156+00.00	0	0	0	149	143	-12	50	746	571	43	634	485	107	119	244	-65	515	241
156+53.59 - 160+00.00	0	0	0	157	48	-39	58	520	261	49	442	222	311	123	194	-262	319	28
161+00.00 - 164+00.00	0	0	0	162	85	-43	28	571	429	24	485	365	334	194	111	-310	291	254
164+86.00 - 166+54.25	0	0	0	54	29	-27	8	274	287	7	233	244	89	99	48	-82	134	196
SUBTOTAL		362	300	4225	2250	-1512	3221	14109	12992	2738	11993	11044	3926	4465	6004	-1188	7528	7111
ADDITIONAL DRAINAGE AREA 7+97.00 - 10+72.00		0			-307			53			45			716			-671	
GRAVEL DRIVEWAY REMOVAL																		
70+50.00 - 78+00.00	0			0				0			0			0			0	
78+00.00 - 90+00.00	0			0				148			126			0			0	
90+00.00 - 102+00.00	0			0				0			0			0			0	
102+00.00 - 114+00.00	0			0				0			0			0			0	
114+00.00 - 126+00.00	0			0				0			0			0			0	
126+00.00 - 138+00.00	0			0				39			33			0			0	
138+00.00 - 150+00.00	0			0				53			45			0			0	
150+00.00 - 162+00.00	0			0				0			0			0			0	
162+00.00 - 166+30.00	0			0				0			0			0			0	
SUBTOTAL		0			0			240			204			0			0	
TOTAL		662			4656			30615			26025			15111			15156	

- * TOPSOIL TO BE SALVAGED
- ** REFLECT 15% SHRINKAGE

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
SCHEDULE OF QUANTITIES (EARTHWORK)			
DESIGNED BY: N.J.L.		SCALE: N.T.S.	
CHECKED BY: N.J.L.			
DRAWN BY: J.T.F.			
NO.	DATE	REVISION	BY

CONTRACT NO. 83896

PERMANENT PAVEMENT MARKINGS														
DRAWING NUMBER	STATION - STATION	PAVEMENT MARKINGS (THERMOPLASTIC)						RAISED REFLECTIVE PAVEMENT MARKERS						
		LETTERS & SYMBOLS	4 IN WHITE	4 IN YELLOW	6 IN WHITE	12 IN YELLOW	24 IN WHITE	ROADWAY			BRIDGE			
			SQ FT	LF	LF	LF	LF	LF	CRYSTAL	AMBER	DOUBLE AMBER	CRYSTAL	AMBER	
PM 1	64+21 - 78+00	109.2	595	3890	569	152	38	42	24	18				
PM 2	78+00 - 114+00	109.2	1902	10972	590	874	120	162	69	26	12		10	
PM 3	114+00 - 150+00	254.8	1700	13316	1526	817	174	170	131	52				
PM 4	150+00 - 168+70	72.8	935	4700	252	256	40	94	52	36				
	TOTAL	546	5132	32878	2937	2099	372	468	276	132	12		10	
			38010						876			22		

TEMPORARY PAVEMENT MARKINGS									
DRAWING NUMBER	STATION - STATION	4 IN	6 IN	8 IN	12 IN	24 IN	TAPE T3 4 IN **	LETTERS & SYMBOLS	WORK ZONE PAVEMENT MARKING REMOVAL
		LF	LF	LF	LF	LF	LF	SQ FT	LIN FT
STAGE 2									
MOT 7	64+21 - 78+00	3200.0	405.0	200.0	90.0	40.0	1760.0	109.2	
MOT 8	78+00 - 114+00	10195.0	160.0		28.0	30.0	4000.0	36.4	
MOT 9	114+00 - 150+00	12920.0	230.0			40.0		72.8	
MOT 10	150+00 - 168+70	7990.0			68.0				
STAGE 3									
MOT 12	64+21 - 78+00		315.0	440.0	170.0	52.0	4435.0	145.6	
MOT 13	78+00 - 114+00		170.0		42.0	30.0	14350.0	36.4	
MOT 14	114+00 - 150+00		260.0			40.0	13410.0	72.8	
MOT 15	150+00 - 168+70				56.0		7921.0		
	TOTAL	34305	1540	640	454	232	45876	473	15500

PAVEMENT MARKING REMOVAL		
DRAWING NUMBER	STATION - STATION	SQ FT
STAGE 2		
MOT 7	64+21 - 78+00	
MOT 8	78+00 - 114+00	
MOT 9	114+00 - 150+00	
MOT 10	150+00 - 168+70	
STAGE 3		
MOT 12	64+21 - 78+00	
MOT 13	78+00 - 114+00	
MOT 14	114+00 - 150+00	
MOT 15	150+00 - 168+70	
	TOTAL	7434

APPROXIMATE STATION	ROADWAY																		
	PAVEMENT REMOVAL	BIT. CONC. SHOULDER REMOVAL	CURB AND GUTTER REMOVAL	CURB REMOVAL	DRIVEWAY PAVEMENT REMOVAL	SIDEWALK REMOVAL	HOT-MIX ASPHALT PAVEMENT, 15" (FULL-DEPTH)	AGGREGATE SUBGRADE 12"	TEMPORARY PAVEMENT	COMBINATION CURB AND GUTTER B6.12	COMBINATION CURB AND GUTTER B6.24	PROTECTIVE COAT	AGGREGATE BASE COURSE TYPE A 15"	HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50	HOT-MIX ASPHALT BASE COURSE 6"	HOT-MIX ASPHALT SURFACE COURSE MIX 'C', N50	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	P.C.C. SIDEWALK 5"
	S.Y.	S.Y.	L.F.	L.F.	S.Y.	S.F.	S.Y.	S.Y.	S.Y.	L.F.	L.F.	S.Y.	S.Y.	TON	S.Y.	TON	GAL	TON	S.F.
70+50 - 78+00	4309	0	820	0	95	0	5313	5910	438	0	1500	500	0	0	74	10.32	593	8	0
78+00 - 90+00	3233	0	0	0	0	16	8533	9488	2757	0	2400	800	0	0	163	22.76	957	13	0
90+00 - 97+00	3443	538	0	0	0	0	5516	6084	1038	0	1428	476	0	0	0	0.00	607	8	0
107+00 - 114+00	2953	0	273	0	282	0	4978	5483	1193	173	1270	462	0	0	208	29.16	571	7	0
114+00 - 126+00	6870	0	310	228	0	431	9515	10504	1517	0	2487	911	0	0	0	0.00	1047	14	739
126+00 - 138+00	3218	0	0	148	435	0	8533	9525	2481	0	2494	831	129	15	50	6.98	958	13	0
138+00 - 150+00	4296	0	176	176	505	768	8838	9803	2163	0	2532	863	134	16	174	39.36	1006	14	170
150+00 - 162+00	5165	0	386	0	0	1235	8609	955	2039	0	2462	891	0	0	0	0.00	947	13	634
162+00 - 166+60.30	1544	0	0	0	0	0	2687	3074	857	0	974	325	0	0	0	0.00	296	4	0
166+54.5 - 167+38	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0
TOTAL	35032	538	2018	552	1318	2450	62522	69427	14482	173	22784	6059	263	31	669	109	32650	100	1544

APPROXIMATE STATION	ROADWAY							
	STEEL PLATE BEAM GUARD RAIL REMOVAL	STEEL PLATE BEAM GUARD RAIL TYPE A	STEEL PLATE BEAM GUARD RAIL ATTACHED TO STR	TRAFFIC BARRIER TERMINAL TYPE 2	TRAFFIC BARRIER TERMINAL TYPE 5	TRAFFIC BARRIER TERMINAL TYPE 6	TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)	
	L.F.	L.F.	L.F.	EACH	EACH	EACH	EACH	
70+50 - 78+00	0	0	0	0	0	0	0	
78+00 - 90+00	0	0	0	0	0	0	0	
90+00 - 97+00	331	0	0	0	0	0	0	
107+00 - 114+00	0	0	0	0	0	0	0	
114+00 - 126+00	0	0	0	0	0	0	0	
126+00 - 138+00	0	0	0	0	0	0	0	
138+00 - 150+00	0	0	0	0	0	0	0	
150+00 - 162+00	450	0	0	0	0	1	1	
162+00 - 166+60.30	75	75	0	1	0	0	0	
166+54.5 - 167+38	169	50	37.5	0	1	0	0	
TOTAL	1025	125	37.5	1	1	1	1	

- FULL DEPTH PAVEMENT IS: HOT-MIX ASPHALT SURFACE COURSE MIX D, 2", N70
HOT-MIX ASPHALT BINDER COURSE, 13", IL 19.0,
- REMOVAL INCLUDED WITH PRICE (NOT PAID FOR SEPARATELY)

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
SCHEDULE OF QUANTITIES (ROADWAY)			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: N.J.L. CHECKED BY: N.J.L. DRAWN BY: J.T.F.	SCALE: N.T.S.
NO.	DATE	REVISION	BY

TEMPORARY EROSION CONTROL SCHEDULE

DRAWING NUMBER	STATION	TEMPORARY DITCH CHECK EACH	INLET AND PIPE PROTECTION EACH	DRAWING NUMBER	STATION TO STATION	MULCH METHOD 2	TEMPORARY SEEDING	PERIMETER EROSION BARRIER	TEMPORARY FENCE
						ACRE	POUNDS	FOOT	FOOT
TEC02	95+10 RT		-	TEC05	111TH ST TO 78+00 LT	0.260	26.0	736.0	0.0
TEC02	95+15 RT	-		TEC01	111TH ST TO 77+29.87 RT	0.685	68.5	784.4	0.0
TEC03	117+35 RT	-		TEC01	77+29.87 TO 78+00 RT	0.024	2.4	57.6	0.0
TEC03	117+80 RT		-	TEC06	78+00 TO 81+78.96 LT	0.106	10.6	353.2	0.0
TEC03	130+00 RT		-	TEC06	81+78.96 TO 83+59.21 LT	0.036	3.6	55.1	0.0
TEC03	130+70 RT	-		TEC06	83+59.21 TO 84+46.13 LT	0.022	2.2	76.6	0.0
TEC03	131+20 RT		-	TEC06	84+46.13 TO 90+00 LT	0.187	18.7	548.1	0.0
TEC03	132+45 RT	-		TEC02	78+00 TO 90+00 RT	0.480	48.0	1,200.0	0.0
TEC03	133+00 RT		-	TEC06	90+00 TO 97+00 LT	0.281	28.1	720.1	0.0
TEC03	140+95 RT	-		TEC02	90+00 TO BOUGHTON RD. RT	0.246	24.6	566.5	0.0
TEC03	141+50 RT		-	TEC02	BOUGHTON RD. TO 97+00 RT	0.052	5.2	68.6	0.0
TEC03	146+50 RT	-		TEC02	97+00 TO 107+00 (OMISSION)	0.000	0.0	0.0	0.0
TEC03	147+25 RT		-	TEC02	107+00 TO 114+00 RT	0.258	25.8	700.0	0.0
TEC05	69+90 RT	-		TEC06	107+00 TO THE PRESERVE LT	0.024	2.4	176.2	0.0
TEC05	71+85 RT	-		TEC06	THE PRESERVE TO 114+00 LT	0.257	25.7	591.0	0.0
TEC05	72+90 LT	-		TEC07	114+00 TO 104TH ST LT	0.070	7.0	150.8	0.0
TEC05	74+15 RT	-		TEC03	114+00 TO 104TH ST RT	0.065	6.5	159.1	0.0
TEC05	76+90 RT	-		TEC03	104TH ST TO 126+00 RT	0.376	37.6	1,005.9	0.0
TEC06	91+00 LT		-	TEC07	104TH ST SARATOGA RD. LT	0.305	30.5	770.6	0.0
TEC06	91+50 LT	-		TEC07	SARATOGA RD TO 126+00 LT	0.084	8.4	173.3	0.0
TEC06	92+00 LT		-	TEC07	126+00 TO 134+81.31 LT	0.307	30.7	874.4	0.0
TEC06	95+15 RT		-	TEC07	134+81.31 TO 138+00 LT	0.108	10.8	311.2	0.0
TEC06	95+50 RT	-		TEC03	126+00 TO 132+19.27 RT	0.223	22.3	609.1	0.0
TEC06	95+60 RT		-	TEC03	132+19.27 TO 138+00 RT	0.211	21.1	576.0	0.0
TEC06	108+35 LT	-		TEC07	138+00 TO HAMLET RD LT	0.152	15.2	472.4	0.0
TEC06	109+00 LT	-	2	TEC07	HAMLET RD TO 150+00 LT	0.190	19.0	670.6	0.0
TEC06	109+25 LT		-	TEC03	138+00 TO 140+13.02 RT	0.075	7.5	209.2	0.0
TEC06	112+00 LT	-		TEC03	140+13.02 TO 146+27.98 RT	0.219	21.9	595.4	0.0
TEC07	114+95 LT	-		TEC03	146+27.98 TO 148+49.36 RT	0.073	7.3	196.6	0.0
TEC07	116+75 LT		-	TEC03	148+49.36 TO 150+00 RT	0.054	5.4	141.8	0.0
TEC07	117+00 LT	-		TEC08	150+00 TO CONAN DOYLE LT	0.225	22.5	625.9	0.0
TEC07	117+25 LT		-	TEC08	CONAN DOYLE TO 162+00 LT	0.226	22.6	519.3	0.0
TEC07	129+30 LT		-	TEC04	150+00 TO WINNERS CUP RT	0.297	29.7	654.1	0.0
TEC07	129+55 LT	-		TEC04	WINNERS CUP TO 162+00 RT	0.265	26.5	536.1	331.1
TEC07	129+75 LT		-	TEC08	162+00 TO 166+60.3 LT	0.232	23.2	453.5	0.0
TEC07	130+50 RT		-	TEC04	162+00 TO 166+60.3 RT	0.249	24.9	448.7	452.1
TEC07	130+80 RT	-		TOTAL		6.924	692.4	16,787.4	783.2
TEC07	131+00 RT		-						
TEC07	132+40 RT		-						
TEC07	132+45 RT	-							
TEC07	132+65 RT		-						
TEC07	132+90 RT	-							
TEC07	133+15 RT		-						
TEC07	140+85 RT		-						
TEC07	141+15 RT	-							
TEC07	141+30 RT		-						
TEC07	149+50 LT		-						
TEC07	149+75 LT	-							
TEC07	149+95 LT		-						
TEC08	164+70 LT	-							
TEC08	164+90 LT	-							
TEC08	165+05 LT		-						
	TOTAL	27	26						

APPLICATION RATES USED
MATERIALS RATES
NITROGEN FERTILIZER NUTRIENT: 60 LBS/ACRE-SODDING
PHOSPHORUS FERTILIZER NUTRIENT: 60 LBS/ACRE-SODDING
POTASSIUM FERTILIZER NUTRIENT: 60 LBS/ACRE-SODDING
NITROGEN FERTILIZER NUTRIENT: 90 LBS/ACRE-SEEDING
PHOSPHORUS FERTILIZER NUTRIENT: 90 LBS/ACRE-SEEDING
POTASSIUM FERTILIZER NUTRIENT: 90 LBS/ACRE-SEEDING
SUPPLEMENTAL WATERING: 3 GAL/SQ YD
TEMPORARY EROSION CONTROL SEEDING: 100 LBS/ACRE

TREE REMOVAL SCHEDULE

DRAWING NUMBER	STATION, OFFSET	6 TO 15	OVER 15
		UNITS	UNITS
PP2	78+02.8, 37.0' RT.		24
PP2	78+42.1, 37.5' RT.	14	
PP2	78+68.5, 33.0' RT.		27
PP2	79+09.6, 33.1' RT.		27
PP2	79+64.6, 43.4' RT.	15	
PP2	80+89.3, 32.8' RT.		36
PP2	81+30.9, 32.8' RT.		24
PP2	81+70.0, 31.7' RT.		27
PP2	82+30.3, 32.3' RT.		30
PP2	87+37.3, 33.9' LT.		16
PP2	87+57.6, 34.6' LT.		
PP4	107+73.6, 35.7' RT.	8	
PP4	107+98.9, 35.2' RT.	8	
PP4	108+74.2, 55.5' LT.		
PP5	119+96.2, 44.5' RT.		
PP6	135+58.5, 35.2' LT.		48
PP6	136+25.5, 32.5' LT.	15	
PP6	137+22.3, 33.1' LT.	15	
PP6	137+43.6, 34.4' LT.		20
PP7	138+78.7, 31.5' LT.		20
PP7	138+96.3, 39.4' LT.		22
PP7	139+48.7, 36.0' LT.		36
PP7	140+45.8, 33.1' LT.		30
PP7	145+31.9, 33.9' RT.	15	
	TOTAL	90	387

SEDIMENT CONTROL, DRAINAGE STRUCTURE

DRAWING NUMBER	STATION, OFFSET	INLET FILTER	INLET FILTER CLEANING
		EACH	EACH
TEC02	97+10 LT & RT	2	2
TEC02	106+80 LT & RT	2	2
TEC03	115+70 LT	1	1
TEC03	115+90 LT	1	1
TEC03	123+80 LT	1	1
TEC03	124+15 LT	1	1
TEC03	142+90 LT	1	1
TEC03	143+20 LT	1	1
TEC04	156+40 LT	1	1
TEC04	156+60 LT	1	1
	TOTAL	12	12

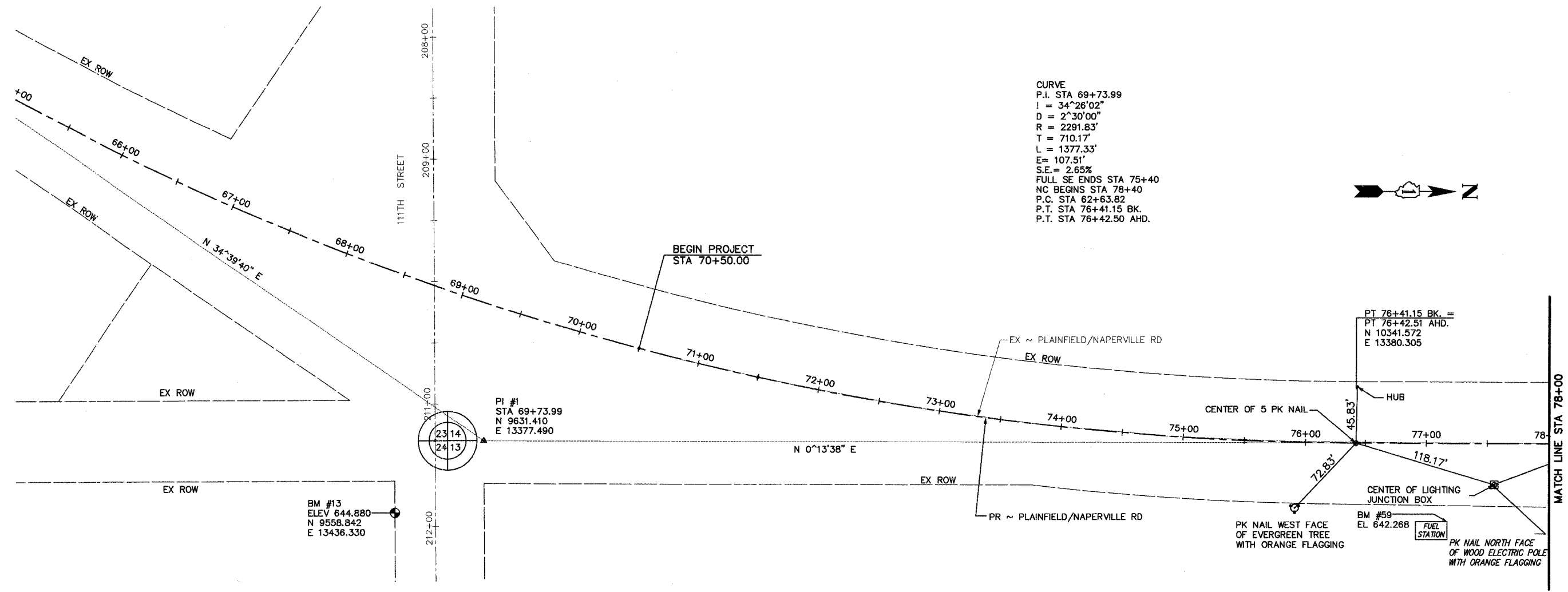
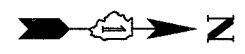
RIPRAP SCHEDULE

DRAWING NUMBER	STATION, OFFSET	STONE RIPRAP CLASS A5	RIPRAP FILTER FABRIC
		SQ YD	SQ YD
DRN1	71+60 LT	5	5
DRN4	106+00 LT	14	14
DRN7	149+80 RT	3	3
DRN9	162+30 RT	11	11
DRN9	164+06 RT	13	13
	TOTAL	46	46

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14) ROADWAY RECONSTRUCTION - S.O.G. LANDSCAPING AND EROSION CONTROL			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: N.L.L. CHECKED BY: N.L.L. DRAWN BY: J.T.F.	SCALE: N.T.S.
NO.	DATE	REVISION	BY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	18
FEDERAL DIST. NO. 7		ALMOS	FED. AID PROJECT:	
* 98-00036-19-FP		CONTRACT NO. 83896		

CURVE
P.I. STA 69+73.99
I = 34°26'02"
D = 2°30'00"
R = 2291.83'
T = 710.17'
L = 1377.33'
E = 107.51'
S.E. = 2.65%
FULL SE ENDS STA 75+40
NC BEGINS STA 78+40
P.C. STA 62+63.82
P.T. STA 76+41.15 BK.
P.T. STA 76+42.50 AHD.



CONTROL POINTS/BENCHMARKS:

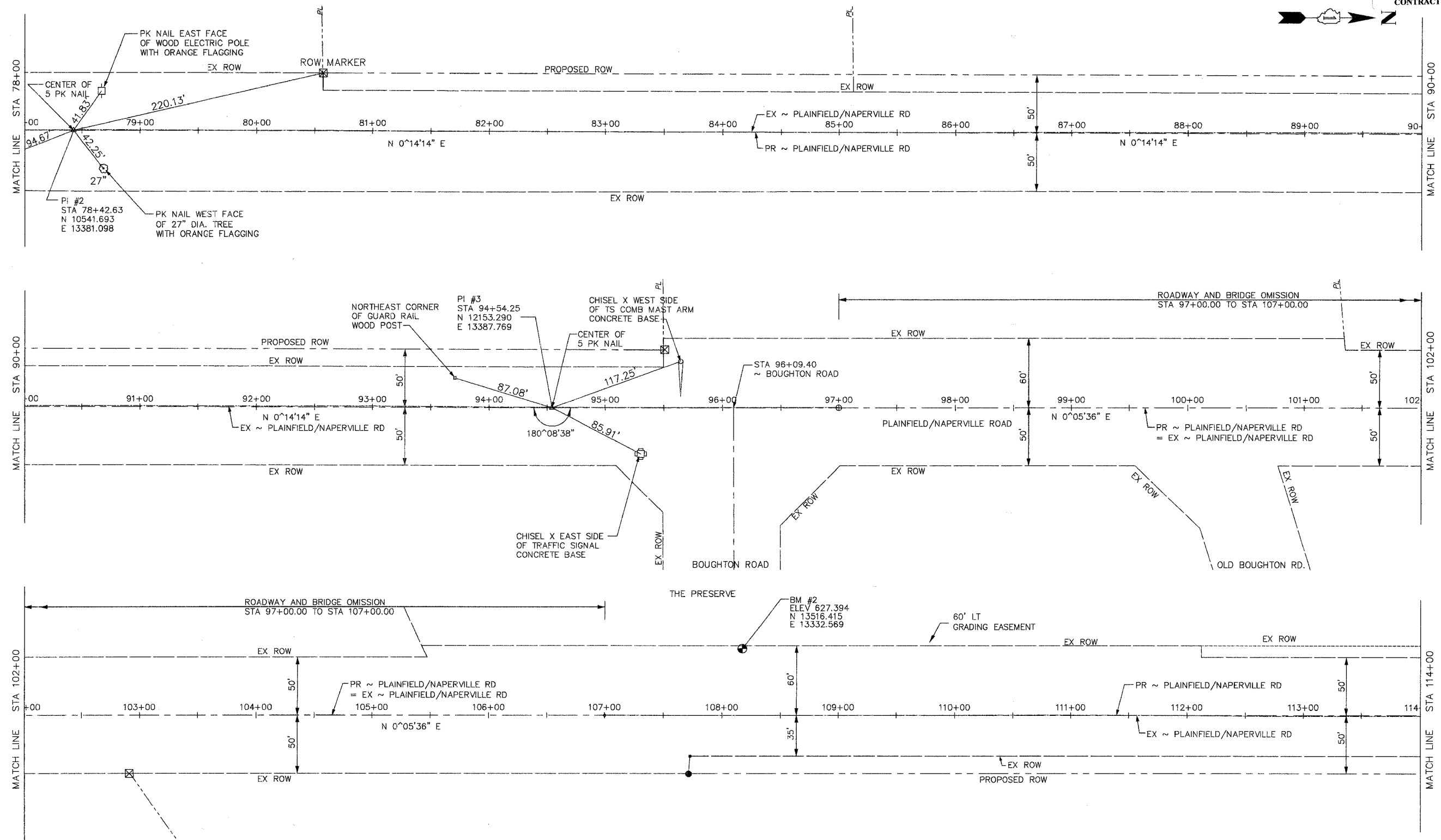
- BM #59 APPROXIMATE STA 77+17, 64' RT ~ PLAINFIELD-NAPERVILLE ROAD CUT (O) ON NORTHWEST CORNER OF FUEL STATION CONCRETE PAD AT ENTRANCE RD FOR ADDRESS 10953 PLAINFIELD NAPERVILLE ROAD ELEVATION = 642.268
- BM #58 APPROXIMATE STA 95+54.6, 157.7' RT ~ PLAINFIELD-NAPERVILLE ROAD CUT (X) ON SOUTHWESTERLY BOLT OF FIRE HYDRANT ON SOUTHEAST CORNER OF BOUGHTON ROAD ELEVATION = 628.179
- BM #2 STA 108+17.28, 57.42' LT ~ PLAINFIELD-NAPERVILLE ROAD CUT (+) ON BITUMINOUS BIKE TRAIL NORTH SIDE OF THE PRESEVE SUBDIVISION ENTRANCE ELEVATION = 827.394
NORTHING 13518.415
EASTING 13332.569
- BM #13 STA 69+04.76, 185.94' RT. 36" LONG BY 5/8" DIA. THREADED IRON ROD NORTHING 9558.842 EASTING 13436.330 ELEVATION 644.88
- BM #3 STA 115+40.45, 62.10' LT ~ PLAINFIELD-NAPERVILLE ROAD CUT (+) ON SOUTH SIDEWALK OF 104TH STREET ELEVATION = 630.400
NORTHING 14239.588
EASTING 13329.077
- BM #57 APPROXIMATE STA 124+24.2, 89.1' LT ~ PLAINFIELD-NAPERVILLE ROAD CUT (O) ON SOUTHWEST CORNER OF CONCRETE BASE FOR ELECTRIC CONTROL BOX ON NORTHWEST CORNER OF SARATOGA ROAD ELEVATION = 642.648
- BM #56 APPROXIMATE STA 156+28.2, 76.7' RT ~ PLAINFIELD-NAPERVILLE ROAD CUT (+) ON SOUTHWEST BOLT OF FIRE HYDRANT ON SOUTHEAST CORNER OF WINNERS CUP COURT ELEVATION = 660.330
- BM #55 APPROXIMATE STA 166+92.6, 49.0' LT ~ PLAINFIELD-NAPERVILLE ROAD CUT (O) ON WEST SIDE OF PLAINFIELD-NAPERVILLE ROAD ON NORTHEAST CORNER OF TOP OF HEADWALL ELEVATION = 643.170

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD/NAPERVILLE ROAD (C.H. 14) HORIZONTAL ALIGNMENT, TIES AND BENCHMARKS STA 65+00 TO STA 78+00			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: JTF CHECKED BY: DRAWN BY: JTF	SCALE: 1" = 40'
NO.	DATE	REVISION	BY

P1
DRAWING ID: C:\20030023 - Plainfield-Naperville Road\dwg\Ain-Ties.dwg
PLOT DATE: 07/08/05 - 10:07

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	19
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
* 98-00036-19-FP				

CONTRACT NO. 83896



P2
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\Aln-Ties.dwg
 PLOT DATE: 07/08/05 - 10:07

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD/NAPERVILLE ROAD (C.H. 14)
 HORIZONTAL ALIGNMENT, TIES AND BENCHMARKS
 STA 78+00 TO STA 114+00

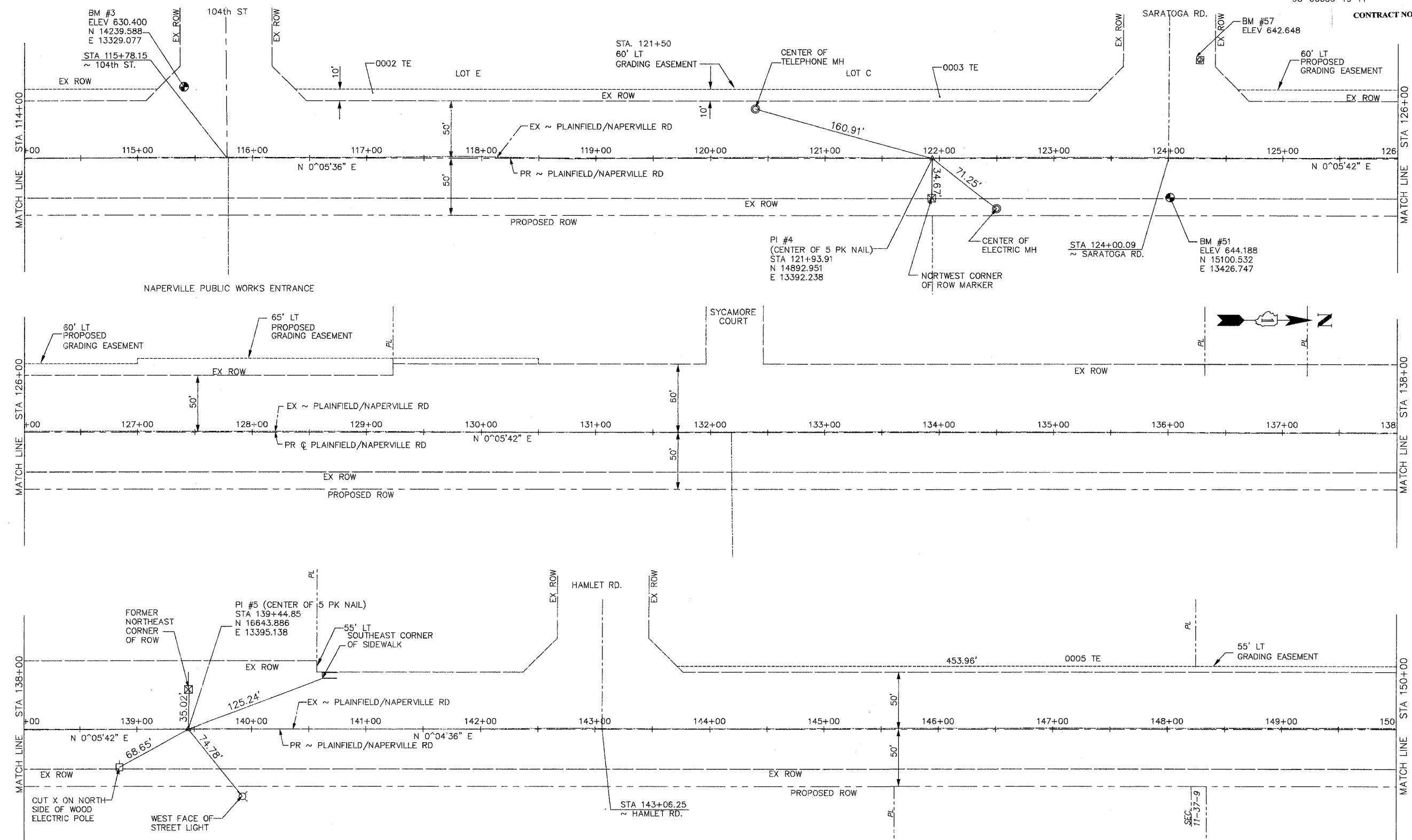
McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: JTF
 CHECKED BY: NJL
 DRAWN BY: JTF

SCALE:
 1" = 40'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	20
FEDERAL DIST. NO. 7		BLDG	FED. AID PROJECT	
* 98-00036-19-FP				

CONTRACT NO. 83896



P3
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\Ain-Ties.dwg
 PLOT DATE: 07/05/05 -- 10:07

NO.	DATE	REVISION	BY

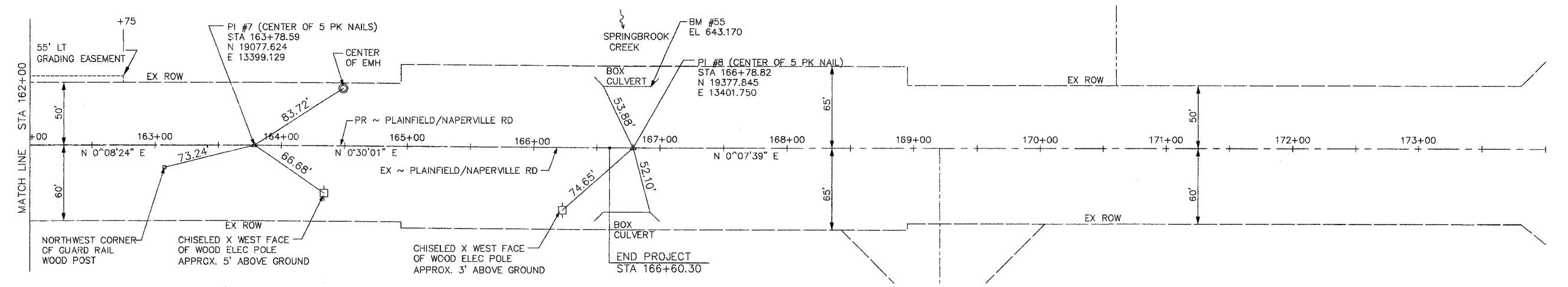
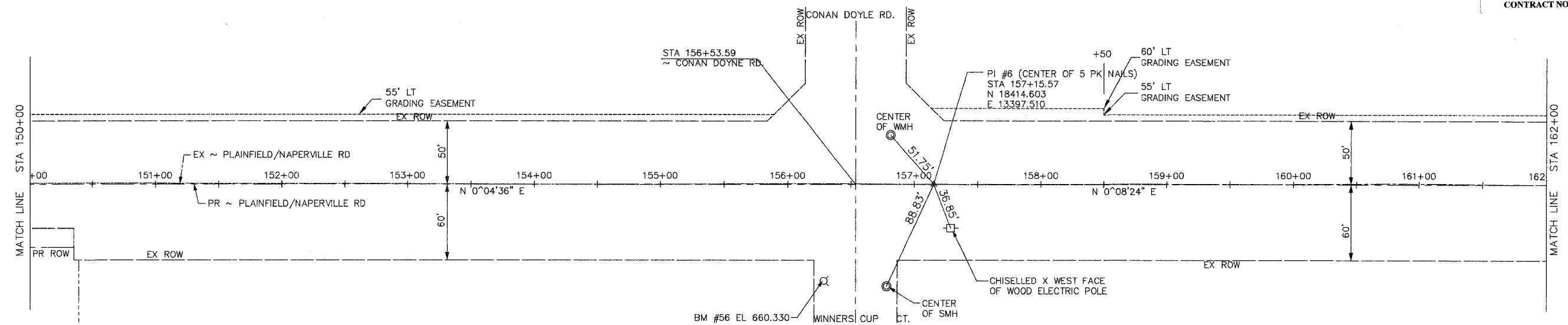
WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD/NAPERVILLE ROAD (C.H. 14)
 HORIZONTAL ALIGNMENT, TIES AND BENCHMARKS
 STA 114+00 TO STA 150+00

	DESIGNED BY: JTF CHECKED BY: NJL DRAWN BY: JTF	SCALE: 1" = 40'
--	--	--------------------

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	21
FED. ROAD DIST. NO. 7	LLINCS	FED. AID PROJECT		
* 98-00036-19-FP				

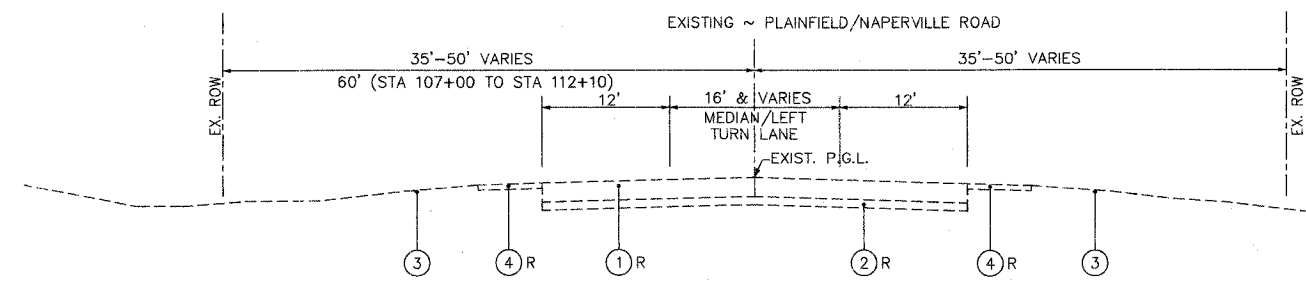
CONTRACT NO. 83896



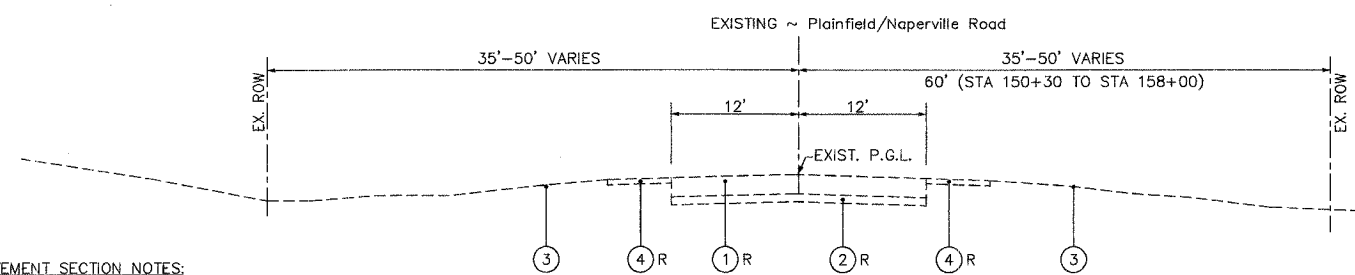
WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD/NAPERVILLE ROAD (C.H. 14)			
HORIZONTAL ALIGNMENT, TIES AND BENCHMARKS			
STA 150+00 TO STA 173+00			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: CHECKED BY: DRAWN BY:	SCALE: 1" = 40'
NO.	DATE	REVISION	BY

P 4
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\Ain-Ties.dwg
 PLOT DATE: 07/08/05 - 10:07

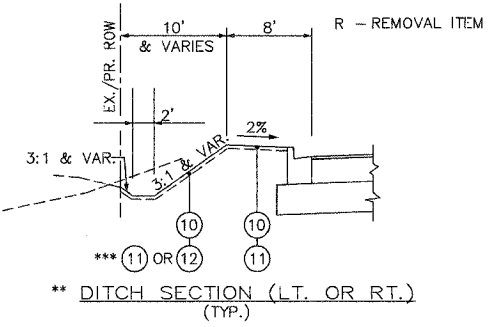
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	22
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* 98-00036-19-FP		CONTRACT NO. 83896		



EXISTING ROADWAY TYPICAL SECTION
 STA. 70+50 TO 78+00
 STA. 90+00 TO 97+00
 STA. 119+00 TO 128+00
 STA. 137+00 TO 147+00
 STA. 152+00 TO 158+00



EXISTING ROADWAY TYPICAL SECTION
 STA. 78+00 TO 90+00
 STA. 107+00 TO 119+00
 STA. 128+00 TO 137+00
 STA. 147+00 TO 152+00



**** DITCH SECTION (LT. OR RT.) (TYP.)**

NOTE:
 1. EXISTING PAVEMENT TO BE REMOVED FROM STA 70+50 TO STA 158+00, EXCEPT: (CONTRACT OMISSION STA 97+00 TO STA 107+00)

LEGEND

- EXISTING:**
- ① EXISTING BITUMINOUS CONCRETE PAVEMENT (9"-11")
 - ② EXISTING SAND BASE COURSE MATERIAL (3"-7")
 - ③ EXISTING TOPSOIL TO BE REMOVED AND STOCKPILED AS DIRECTED BY THE ENGINEER.
 - ④ AGGREGATE/BITUMINOUS SHOULDER

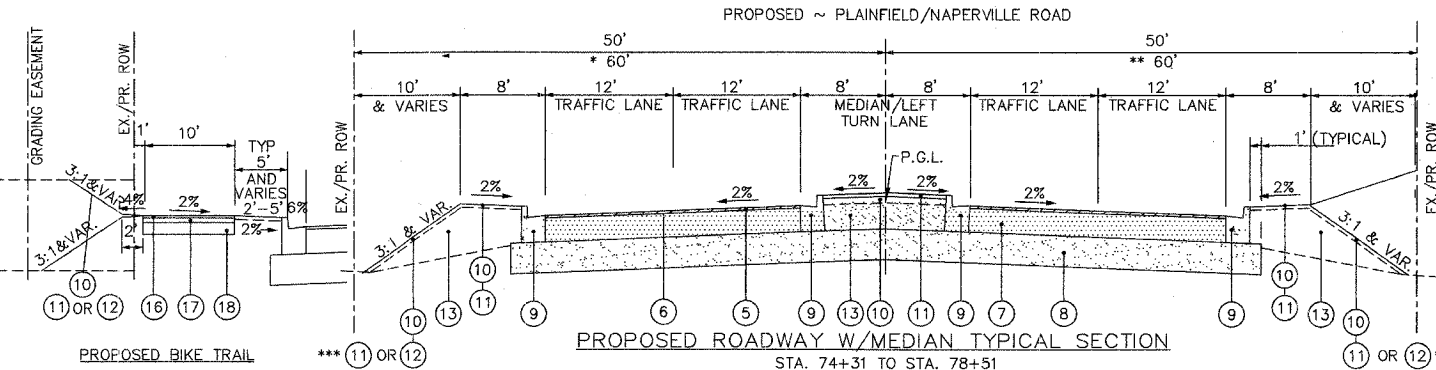
- PROPOSED:**
- ⑤ HOT-MIX ASPHALT SURFACE COURSE, 2" MIX "D", N70
 - ⑥ BITUMINOUS MATERIALS (PRIME COAT)
 - ⑦ HOT-MIX ASPHALT BINDER COURSE, 13" IL 19.0, N70,
 - ⑧ AGGREGATE SUBGRADE, 12"
 - ⑨ COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24
 - ⑩ TOPSOIL PLACEMENT, 6" REFER TO SPECIAL PROVISION FOR TOPSOIL EXCAVATION AND PLACEMENT.
 - ⑪ SODDING, SALT TOLERANT
 - ⑫ SEEDING, CLASS 2A
 - ⑬ FURNISHED EXCAVATION
 - ⑭ RETAINING WALL - SEE STRUCTURAL PLANS FOR DETAILS
 - ⑮ SEEDING CLASS 4A
 - ⑯ HOT-MIX ASPHALT SURFACE COURSE 2" MIX "D", N70
 - ⑰ HOT-MIX ASPHALT BINDER COURSE 2 1/4" IL 19.0, N70,
 - ⑱ AGGREGATE SUBGRADE, 9"
- ** REFER TO CROSS SECTIONS FOR LOCATIONS.
 *** REFER TO LANDSCAPING PLANS FOR LOCATIONS.

- PAVEMENT SECTION NOTES:**
- STA 70+50 TO STA 71+50 PAVEMENT TRANSITIONS FROM 31'-0" WIDE TO 32'-0" WIDE LT. AND RT.
 - STA 70+50 TO 75+40 FULL S.E. SECTION S= 2.65% TO LEFT
 - STA 75+40 TO STA 78+40 S.E. TRANSITION 2.65% SLOPE TO NORMAL CROWN. (REFER TO PLANS AND CROSS SECTIONS FOR PAVEMENT SLOPES).

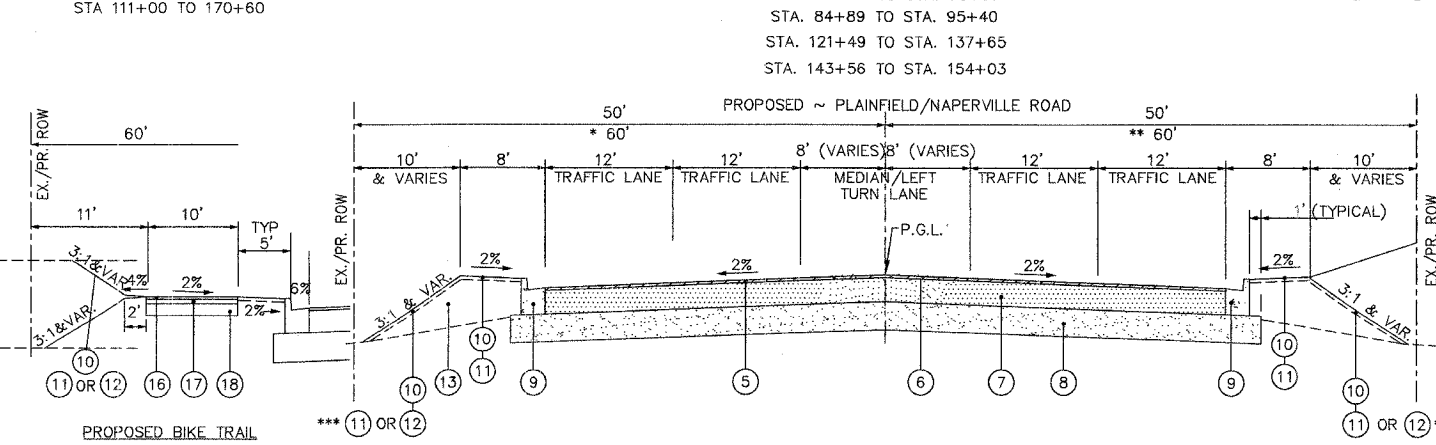
HIGH TRUCK TRAFFIC PAVEMENT DESIGN

POSTED SPEED LIMIT: 45 MPH	IBR
DESIGN SPEED: 45 MPH	2.0
TRAFFIC DATA:	TRAFFIC FACTOR
ADT (2025) = 22,000	10.0
DESIGN DESIGNATION	STRUCTURAL NUMBER
ADT-22,000(2025) MINOR ARTERIAL CLASS I	6.5
FIVE-LANE FACILITY	

- NOTES:**
- THE PROPOSED BITUMINOUS PAVEMENT CONSISTS OF 2" BITUMINOUS CONCRETE SURFACE COURSE AND 13" BITUMINOUS CONCRETE BINDER COURSE. PER THE SPECIFICATIONS, THESE ITEMS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR: BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), 15"
 - THE CONTRACTOR IS REQUIRED TO PROVIDE A SUPERSTRUCTURE RATING COURSE AGGREGATE IN THE RETAINING WALL CONCRETE MIXTURE. THIS MATERIAL IS INCLUDED IN THE CONTRACT UNIT PRICE FOR CONCRETE STRUCTURES.



PROPOSED ROADWAY W/MEDIAN TYPICAL SECTION
 STA. 74+31 TO STA. 78+51
 STA. 84+89 TO STA. 95+40
 STA. 121+49 TO STA. 137+65
 STA. 143+56 TO STA. 154+03



PROPOSED ROADWAY W/O MEDIAN TYPICAL SECTION
 STA. 70+50 TO STA. 74+30
 STA. 78+52 TO STA. 84+88
 STA. 95+41 TO STA. 121+48
 STA. 137+65 TO STA. 143+55
 STA. 154+03 TO STA. 166+60.30

HOT MIX ASPHALT MIXTURE REQUIREMENTS		
ITEM	AC-TYPE	VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; 2" (IL 9.5 mm)	PG 64-22	4% @ 70 GYRATION
HOT-MIX ASPHALT BINDER COURSE, IL-19, N70; 13" (21/4" ON BIKE TRAIL)	PG 64-22/58-22 *	4% @ 70 GYRATION
HOT-MIX ASPHALT SHOULDERS, 6"	PG 64-22/58-22 *	2% @ 30 GYRATION
HOT-MIX ASPHALT BASE COURSE, 6" (BINDER IL-19)	PG 64-22/58-22 *	4% @ 50 GYRATION
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50; 2" (IL-9.5 mm) (NAPERVILLE PUBLIC WORKS DRIVE)	PG 64-22	4% @ 50 GYRATION
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (NAPERVILLE PUBLIC WORKS DRIVE)	PG 64-22/58-22 *	4% @ 50 GYRATION
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50; 2" (TEMPORARY PAVEMENT)	PG 64-22	4% @ 50 GYRATION
HMA BASE COURSE, 10" (BINDER IL-19) (TEMPORARY PAVEMENT)	PG 64-22/58-22 *	4% @ 50 GYRATION

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB./SQ. YD./IN.
 * WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 ROADWAY TYPICAL SECTIONS

McDonough Associates Inc. ENGINEERS/ARCHITECTS
 DESIGNED BY: N.J.L.
 CHECKED BY: N.J.L.
 DRAWN BY: J.T.F.
 SCALE: N.T.S.

G:\20030023 - Plainfield-Naperville Road\dwg\TYP-SECTION.dwg
 PLOT DATE: 07/08/05 - 10:28
 DRAWING ID: 20030023
 PLOT DATE: 07/08/05 - 10:28

STATUS OF UTILITIES TO BE ADJUSTED

NAME OF UTILITY	TYPE	LOCATION	ESTIMATED DATE OF RELOCATE OR ADJUSTMENT
NICOR	GAS MAIN AND VALVES	PLAINFIELD/NAPERVILLE ROAD	FALL 2006
SBC	CONTROL BOXES, MANHOLES, TELEPHONE POLES	PLAINFIELD/NAPERVILLE ROAD	DURING CONSTRUCTION
COMMONWEALTH EDISON	AERIAL LINES, DUCTS, WIRES POWER POLES	PLAINFIELD/NAPERVILLE ROAD	SUMMER 2006
CITY OF NAPERVILLE	CITY ELECTRIC CABLE/CONDUIT AND MANHOLES, STORM AND SANITARY SEWERS, WATER MAIN, TRAFFIC SIGNALS.	PLAINFIELD/NAPERVILLE ROAD	DURING CONSTRUCTION AND PRIOR TO CONSTRUCTION
VILLAGE OF BOLINGBROOK	LIGHTING, TRAFFIC SIGNALS, POWER AND POLES	PLAINFIELD/NAPERVILLE ROAD	DURING CONSTRUCTION IF NECESSARY
COMCAST CABLE TV	AERIAL AND BURIED CABLE	PLAINFIELD/NAPERVILLE ROAD	DURING CONSTRUCTION & FALL 2006

NOTE:
1. EXISTING PAVEMENT TO BE REMOVED FROM STA 158+00 TO STA 166+60.30

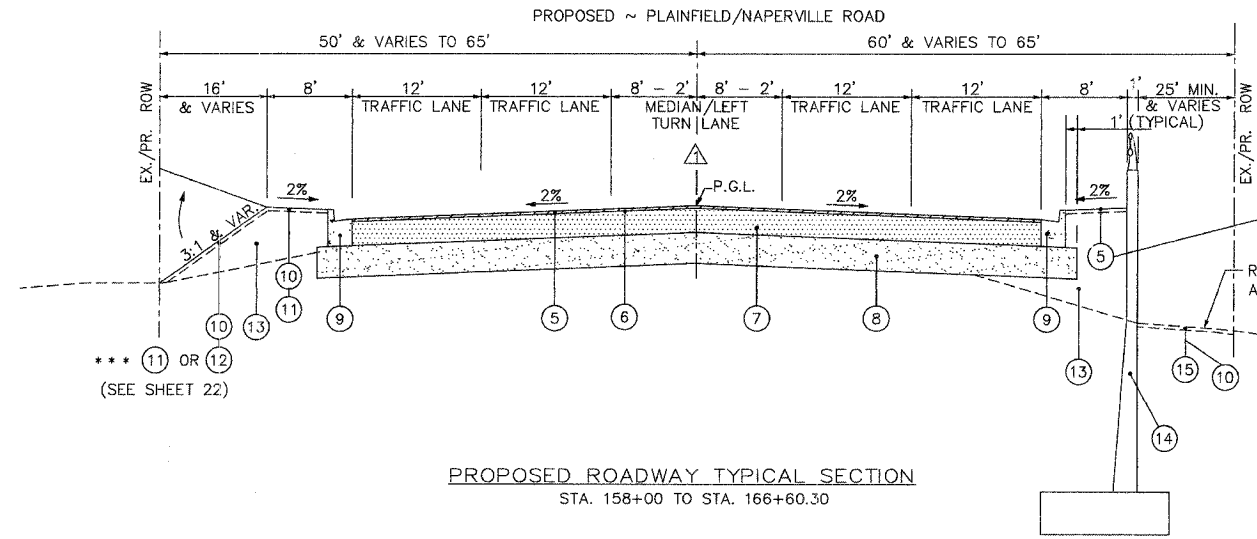
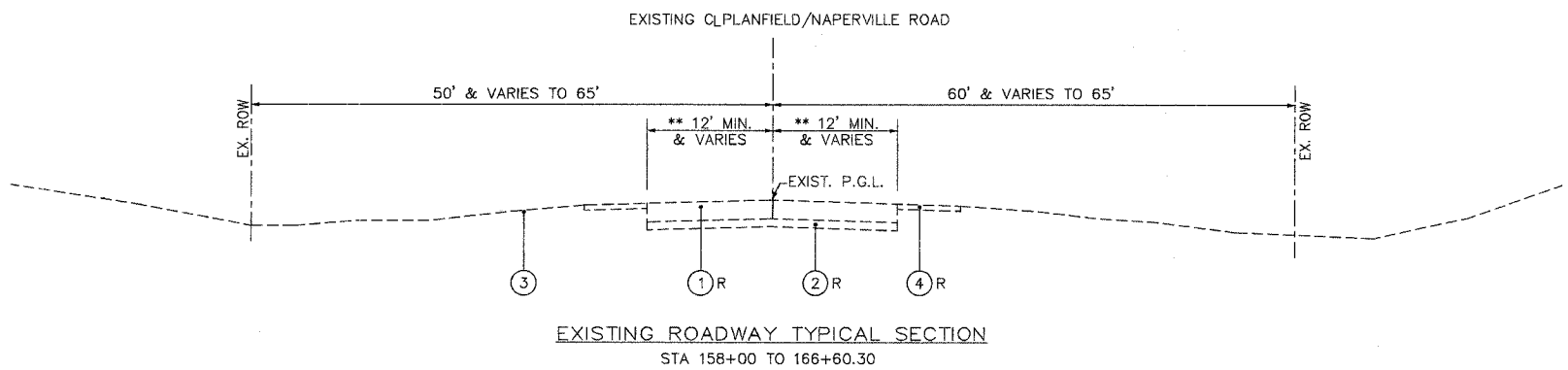
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	23

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT.
* 98-00036-19-FP
CONTRACT NO. 83896

LEGEND

- EXISTING:**
- ① EXISTING BITUMINOUS CONCRETE PAVEMENT (9"-11")
 - ② EXISTING SAND BASE COURSE MATERIAL (3"-7")
 - ③ EXISTING TOPSOIL TO BE REMOVED AND STOCKPILED AS DIRECTED BY THE ENGINEER.
 - ④ AGGREGATE/BITUMINOUS SHOULDER
- R - REMOVAL ITEM
- PROPOSED:**
- ⑤ HOT-MIX ASPHALT SURFACE COURSE, 2" MIX "D", N70
 - ⑥ BITUMINOUS MATERIALS (PRIME COAT)
 - ⑦ HOT-MIX ASPHALT BINDER COURSE, 13" IL 19.0, N70, 13"
 - ⑧ AGGREGATE SUBGRADE, 12"
 - ⑨ COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24
 - ⑩ TOPSOIL PLACEMENT, 6" REFER TO SPECIAL PROVISION FOR TOPSOIL EXCAVATION AND PLACEMENT.
 - ⑪ SODDING, SALT TOLERANT
 - ⑫ SEEDING, CLASS 2A
 - ⑬ **FURNISHED EXCAVATION**
 - ⑭ RETAINING WALL - SEE STRUCTURAL PLANS FOR DETAILS
 - ⑮ SEEDING CLASS 4A
- ** REFER TO PLANS
*** REFER TO LANDSCAPING PLANS FOR LOCATIONS

NOTES:
1. THE CONTRACTOR IS REQUIRED TO PROVIDE A SUPERSTRUCTURE RATING COURSE AGGREGATE IN THE RETAINING WALL CONCRETE MIXTURE. THIS MATERIAL IS INCLUDED IN THE CONTRACT UNIT PRICE FOR CONCRETE STRUCTURES.



HIGH TRUCK TRAFFIC PAVEMENT DESIGN

POSTED SPEED LIMIT: 45 MPH	IBR
DESIGN SPEED: 45 MPH	2.0
TRAFFIC DATA:	TRAFFIC FACTOR
ADT (2025) = 22,000	10.0
DESIGN DESIGNATION	STRUCTURAL NUMBER
ADT-22,000(2025) MINOR ARTERIAL CLASS I	6.5
FIVE-LANE FACILITY	

SEE NOTES BELOW

PAVEMENT SECTION NOTES:

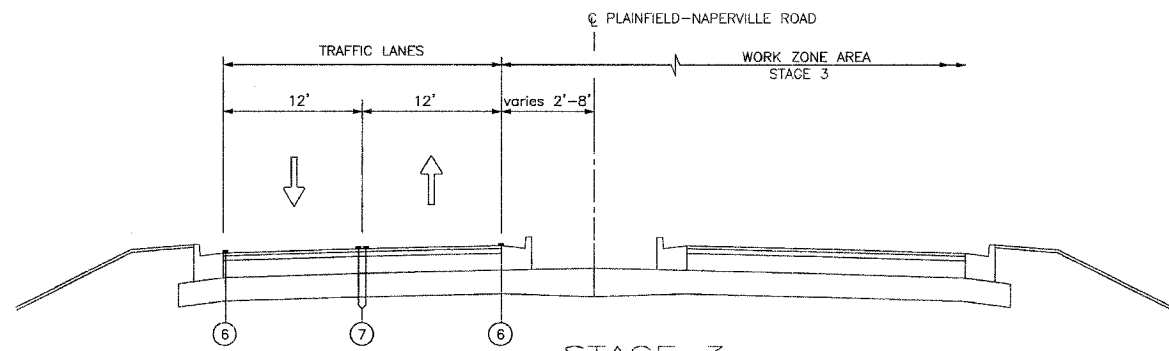
- STA 158+00 TO STA 160+70 MEDIAN WIDTH TRANSITIONS FROM 16' WIDE TO 4' WIDE
- STA 160+70 TO 166+60.30 MEDIAN WIDTH IS 4'-0" WIDE.

NO.	DATE	REVISION	BY

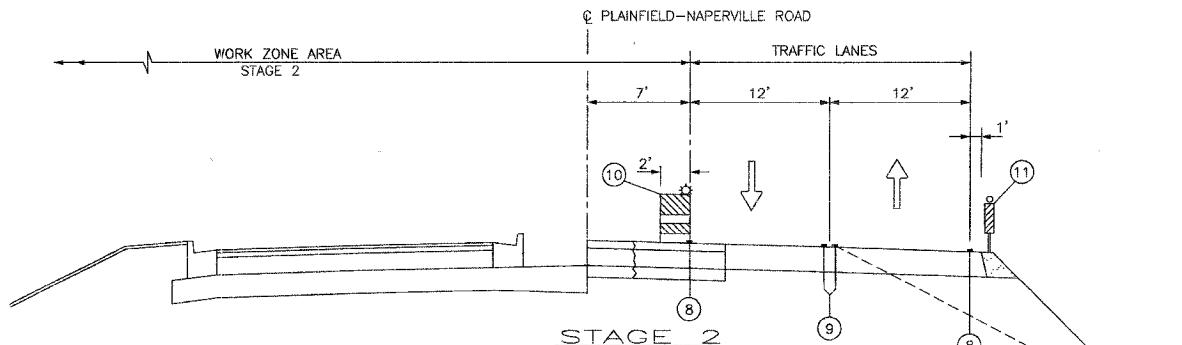
WILL COUNTY DEPARTMENT OF HIGHWAYS		
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)		
ROADWAY RECONSTRUCTION		
ROADWAY TYPICAL SECTIONS		
McDonough Associates Inc. Engineers/Architects	DESIGNED BY: N.J. CHECKED BY: N.J. DRAWN BY: JTF	SCALE: N.T.S.

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TYP-SECTION.dwg
PLOT DATE: 07/08/05 - 10:28

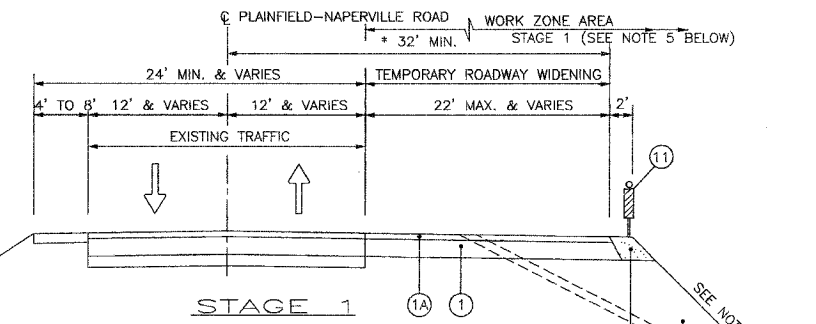
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	24
FEDERAL DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		
* 98-00036-19-FP			CONTRACT NO. 83896	



- STAGE 3**
- SHIFT TRAFFIC TO COMPLETED ROADWAY (SEE M.O.T. PLANS)
 - COMPLETE EAST 1/2 OF DRAINAGE
 - RECONSTRUCT EAST 1/2 OF PLAINFIELD-NAPERVILLE ROAD
 - COMPLETE DRIVEWAY AND CROSS-STREET CONNECTIONS (BUILD CONNECTIONS 1/2 AT A TIME TO MAINTAIN TRAFFIC ACCESS)



- STAGE 2**
- SHIFT TRAFFIC TO EAST TEMPORARY PAVEMENT (SEE M.O.T. PLANS)
 - COMPLETE MAIN DRAIN AND WEST 1/2 OF DRAINAGE AND STUB OUT FOR EAST CONNECTIONS
 - CONSTRUCT WEST 1/2 OF PLAINFIELD-NAPERVILLE ROAD
 - COMPLETE DRIVEWAY AND CROSS-STREET CONNECTIONS (BUILD CONNECTIONS 1/2 AT A TIME TO MAINTAIN TRAFFIC ACCESS)



* THE CONTRACTOR SHALL PROVIDE A 32'-0" MINIMUM PAVEMENT WIDTH. SOME AREAS OF EXISTING ROADWAY MAY VARY WHERE THE EXISTING N.B. LANE WIDTH IS LESS THAN 12'-0" FROM THE PROPOSED ~. IT IS STILL THE INTENTION TO PROVIDE A 32'-0" MINIMUM PAVEMENT WIDTH FROM THE PROPOSED ~ FOR STAGE 2 TRAFFIC LANES.

- CONSTRUCT RETAINING WALL STA. 158+00 TO 166+54.59 RT.
- CONSTRUCT TEMPORARY WIDENING (EAST SIDE OF PLAINFIELD-NAPERVILLE RD.)
 @ STATIONS NOTED HEREIN (SEE M.O.T. PLANS)
 STA. 70+50 - STA. 97+00 RT.
 STA. 107+00 - STA. 166+51.98 RT.
- MAINTAIN TWO-WAY TRAFFIC ON EXISTING ROADWAY
- MAINTAIN EXISTING DRAINAGE (EXTEND EXISTING CULVERTS WITH TEMPORARY PIPES) SEE NOTE 2
- RECONNECT EXISTING DRIVEWAYS AND CROSS-STREETS (USE AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS) REFER TO SPECIAL PROVISIONS FOR PAY ITEM
- SIGNING AND BARRICADING FOR STAGE 1 SHALL BE IN ACCORDANCE WITH STANDARDS 701326 & 701501.

- NOTES:**
- SLOPE VARIES. REFER TO CROSS SECTIONS FOR INTERIM GRADE LINE (2:1 MIN. OR FLATTER SLOPE).
 - THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN EXISTING DRAINAGE PATTERNS DURING STAGE 1. EXISTING CULVERTS UNDER PLAINFIELD-NAPERVILLE RD. SHALL BE EXTENDED AND EXISTING CULVERTS UNDER DRIVEWAYS SHALL BE REMOVED AND RE-LAID AS NOTED ON PLANS. (REFER TO TEMPORARY WIDENING AND STAGE 1 PLANS)
 - HMA BASE COURSE SHALL BE PLACED IN ACCORDANCE WITH ARTICLE 355.08 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

- LEGEND**
TEMPORARY ROADWAY WIDENING
- (PAY FOR AS TEMPORARY PAVEMENT)
- ① HMA BASE COURSE, 10" (SEE NOTE NO. 3 LEFT)
 - ①A HMA CONCRETE SURFACE COURSE, MIXTURE D, 2"
 - ② AGGREGATE SHOULDERS, TYPE "B", 12"
 - ③ EMBANKMENT
 - ④ TOPSOIL STRIPPING, 6" (REFER TO SPECIAL PROVISIONS FOR TOPSOIL EXCAVATION AND PLACEMENT)
 - ⑤ TEMPORARY EROSION CONTROL SEEDING
 - ⑥ WHITE REFLECTORIZED PAVEMENT MARKING TAPE TYPE III, 4"
 - ⑦ DOUBLE YELLOW REFLECTORIZED PAVEMENT MARKING TAPE TYPE III, 4" (11" C-C)
 - ⑧ WHITE TEMPORARY PAINT PAVEMENT MARKING LINE, 4"
 - ⑨ DOUBLE YELLOW TEMPORARY PAINT PAVEMENT MARKING LINE, 4" (11" C-C)
 - ⑩ TYPE 1 OR TYPE II BARRICADES W/STEADY BURN LIGHTS. 50' C-C ON TANGENTS, 25' C-C ON TAPERS. (SEE NOTE 2 BELOW)
 - ⑪ VERTICAL PANELS @ 50' C-C @ 2:1 SLOPES
- (PAY FOR AS TEMPORARY PAVEMENT MARKING - LINE, 4")

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

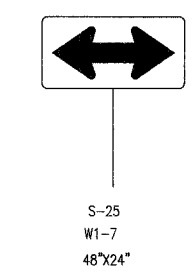
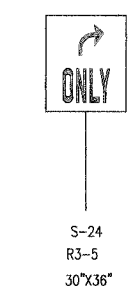
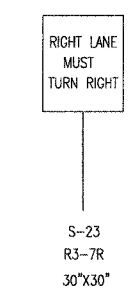
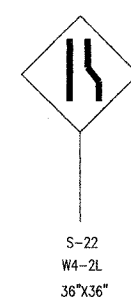
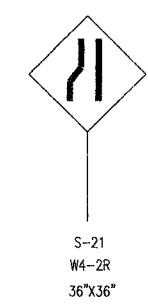
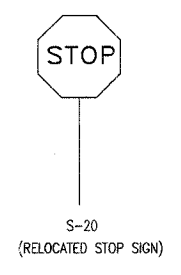
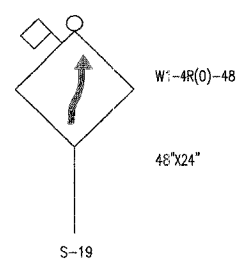
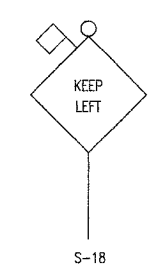
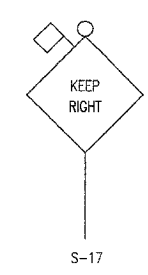
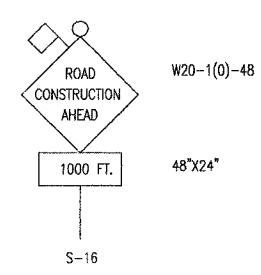
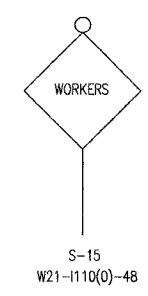
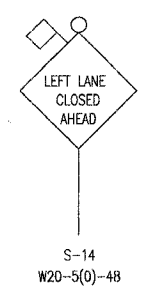
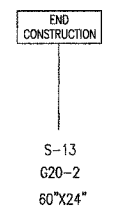
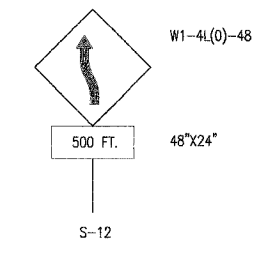
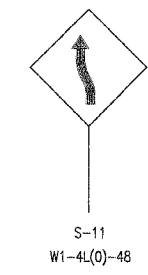
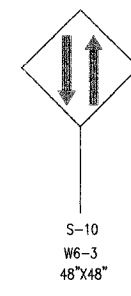
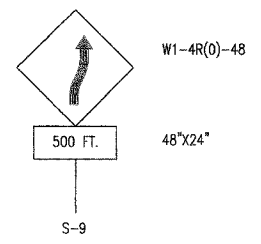
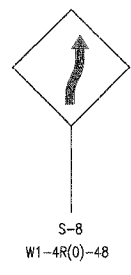
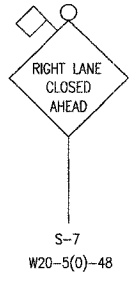
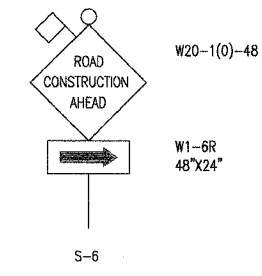
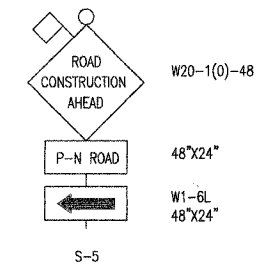
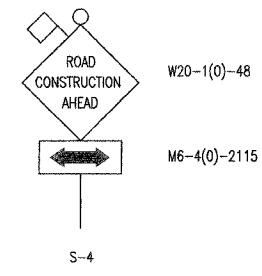
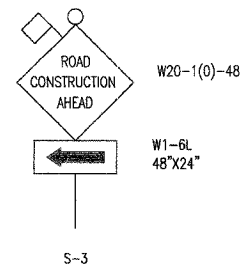
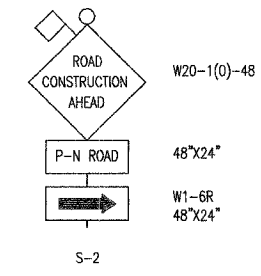
- TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE APPLICABLE HIGHWAY STANDARDS OR AS HEREIN SPECIFIED.
- THE WORK ZONE WILL BE DELINEATED AT ALL TIMES THROUGHOUT CONSTRUCTION WORK TYPE I OR BY TYPE II BARRICADES BARRICADES WITH MONODIRECTIONAL STEADY BURN LIGHTS. THE BARRICADES SHALL BE PLACED AT 50' CENTERS. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 702001.
- OPPOSING LANES OF TRAFFIC WILL BE DELINEATED AT ALL TIMES THROUGHOUT CONSTRUCTION BY TWO 4" YELLOW TEMPORARY PAVEMENT MARKING-LINES AT 11" CENTERS.
- THE COST OF FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING ALL TRAFFIC CONTROL DEVICES INCLUDING BUT NOT LIMITED TO: BARRICADES, VERTICAL PANELS, FLEXIBLE DELINEATORS, CONSTRUCTION SIGNS, WARNING LIGHTS, FLAGMEN, AND ALL OTHER MISCELLANEOUS DEVICES USED FOR THE PURPOSE OF RELOCATING OR DIRECTING TRAFFIC DURING CONSTRUCTION OF THIS IMPROVEMENT WILL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION.
- EXISTING TRAFFIC SIGNS SHALL BE RELOCATED FOR EACH CONSTRUCTION STAGE, BY THE CONTRACTOR.
- ACCESS TO DRIVEWAYS AND SIDE ROADS IS TO BE MAINTAINED DURING CONSTRUCTION. ANY DELAYS OR INCONVENIENCES CAUSED BY THE CONTRACTOR BY COMPLYING WITH THESE REQUIREMENTS SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL APPLICABLE PORTIONS OF TRAFFIC CONTROL STANDARDS, 701001, 701006, 701011, 701201, 701206, 701301, 701306, 701311, 701326, 701336, 701426, 701501, 701606, 701701 AND 702001 SHALL APPLY DURING STAGE 1, STAGE 2, AND STAGE 3, AND ALL SLB STAGES THAT ARE NOT SPECIFIED.
- THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN EXISTING DRAINAGE PATTERNS DURING STAGE CONSTRUCTION.

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT1-Typ Sects1.dwg
 PLOT DATE: 07/08/05 - 10:29

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14) ROADWAY RECONSTRUCTION TEMPORARY WIDENING AND M.O.T TYPICAL SECTIONS			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: MC CHECKED BY: NUL DRAWN BY: JIF	SCALE: N.T.S.
NUL	DATE	REVISION	BY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	25
FED. ROAD DIST. NO. 7		ALJMS	FED. AID PROJECT:	

* 98-00036-19-FP
CONTRACT NO. 83896



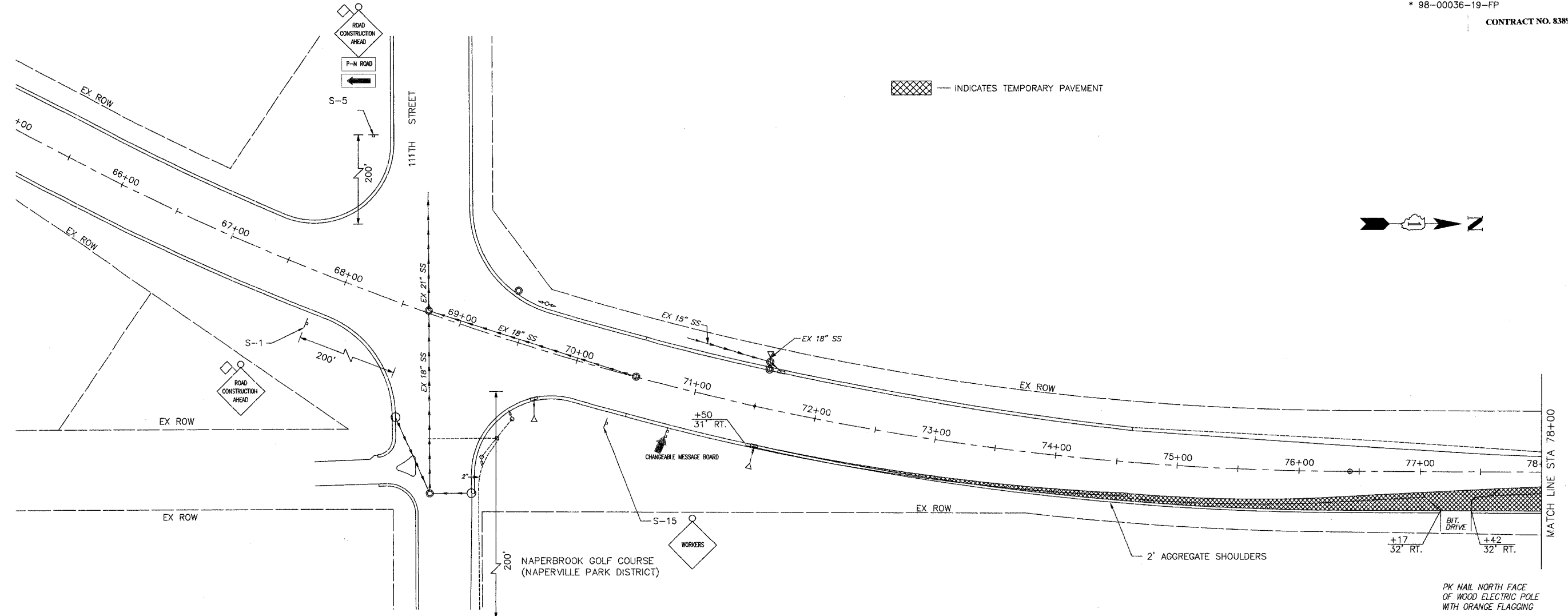
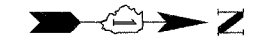
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOTlegend.dwg
 PLOT DATE: 07/08/05 10:30

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
MAINTENANCE OF TRAFFIC			
SIGN LEGEND			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: MC CHECKED BY: NJL DRAWN BY: JTF	SCALE: 1" = 40'
NO.	DATE	REVISION	BY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	26
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

* 98-00036-19-FP
CONTRACT NO. 83896

INDICATES TEMPORARY PAVEMENT



NOTES:

- SIGNING AND BARRICADING FOR TEMPORARY ROADWAY WIDENING SHALL BE IN ACCORDANCE WITH STANDARDS 701328 AND 701501 AS APPLICABLE.
- FOR SIGN LEGEND SEE SHEET NO. MOT2
- TEMPORARY PAINT PAVEMENT MARKINGS SHALL BE USED ON TEMPORARY PAVEMENT FOR STAGE CONSTRUCTION. (PAY FOR AS TEMPORARY PAVEMENT MARKING OF THE SIZE SPECIFIED.)
- PAVEMENT MARKING TAPE SHALL BE USED ON FINAL PAVEMENT FOR STAGE CONSTRUCTION.
- THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED FOR FINAL PAVEMENT MARKINGS.

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 TEMPORARY WIDENING AND M.O.T. STAGE 1
 STA 69+66 TO STA 78+00

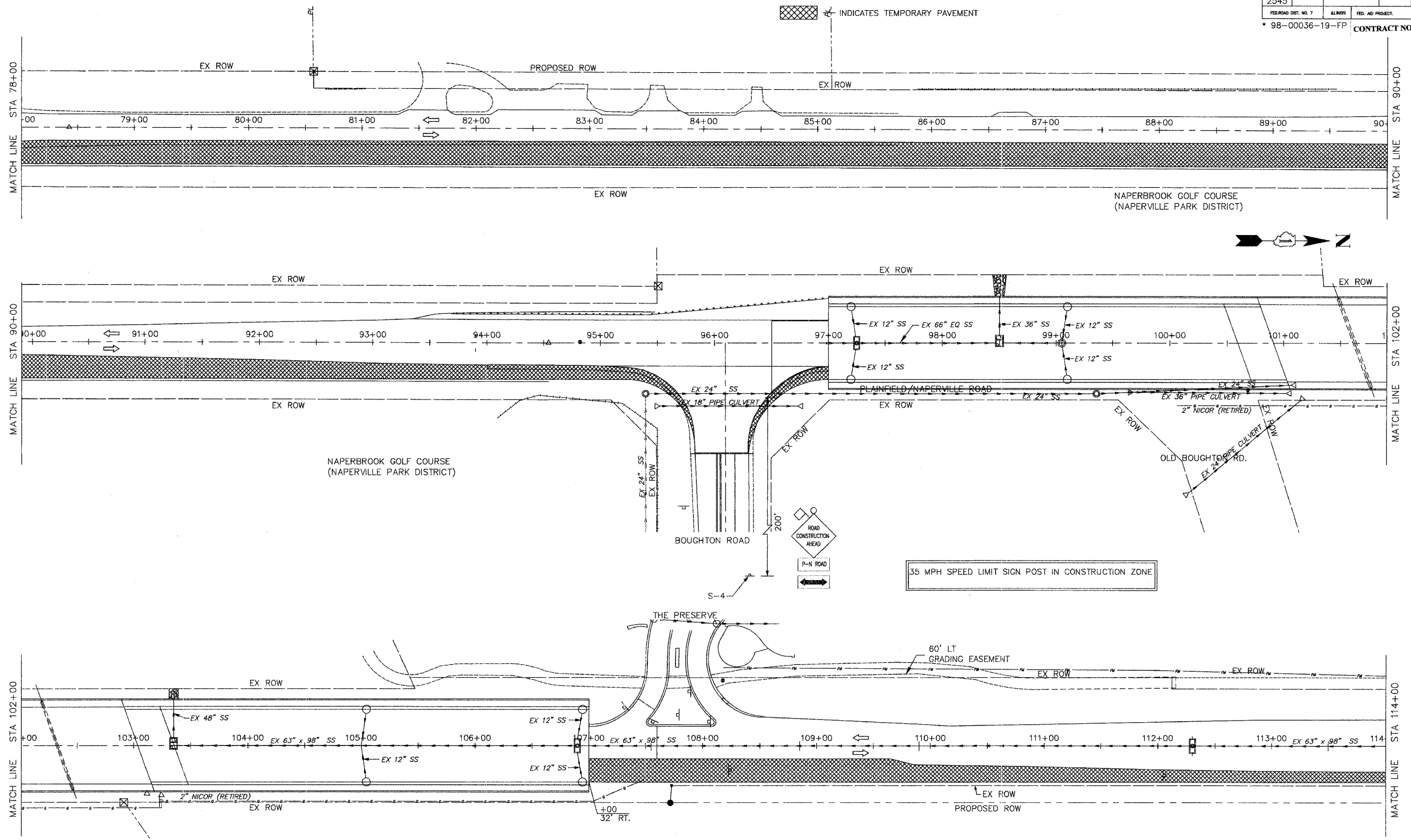
McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: MC
 CHECKED BY: NJL
 DRAWN BY: JTF

SCALE:
 1" = 40'

P1
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT1 1-4.dwg
 PLOT DATE: 07/08/05 - 10:31

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	27
FED. ROAD DIST. NO. 7	BLK. NOS.	FED. AID PROJECT.		
* 98-00036-19-FP		CONTRACT NO. 83896		

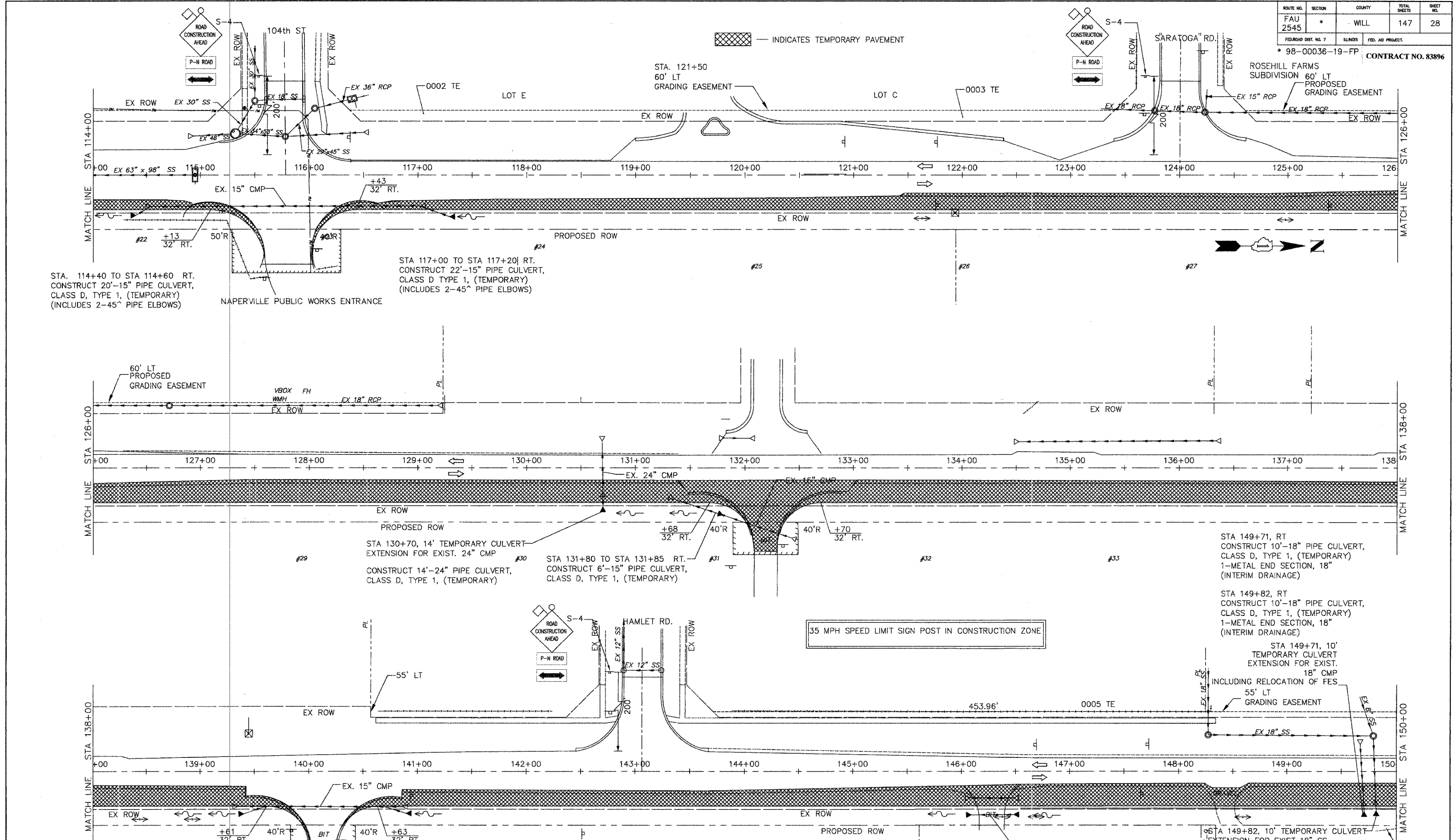


- NOTES:**
- SIGNING AND BARRICADING FOR TEMPORARY ROADWAY WIDENING SHALL BE IN ACCORDANCE WITH STANDARDS 701326 AND 701501 AS APPLICABLE.
 - FOR SIGN LEGEND SEE SHEET NO. MOT2
 - TEMPORARY PAINT PAVEMENT MARKINGS SHALL BE USED ON TEMPORARY PAVEMENT FOR STAGE CONSTRUCTION. (PAY FOR AS TEMPORARY PAVEMENT MARKING OF THE SIZE SPECIFIED.)
 - PAVEMENT MARKING TAPE SHALL BE USED ON FINAL PAVEMENT FOR STAGE CONSTRUCTION.
 - THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED FOR FINAL PAVEMENT MARKINGS.

P2
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT1 1-4.dwg
PLOT DATE: 07/08/05 - 10:31

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
TEMPORARY WIDENING AND M.O.T. STAGE 1			
STA 78+00 TO STA 114+00			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: WC CHECKED BY: N.L. DRAWN BY: JTF	SCALE: 1" = 40'
NO.	DATE	REVISION	BY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	28
FEDERAL DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* 98-00036-19-FP		CONTRACT NO. 83896		



STA. 114+40 TO STA 114+60 RT.
CONSTRUCT 20'-15" PIPE CULVERT,
CLASS D, TYPE 1, (TEMPORARY)
(INCLUDES 2-45° PIPE ELBOWS)

STA 117+00 TO STA 117+20] RT.
CONSTRUCT 22'-15" PIPE CULVERT,
CLASS D TYPE 1, (TEMPORARY)
(INCLUDES 2-45° PIPE ELBOWS)

STA 130+70, 14' TEMPORARY CULVERT-
EXTENSION FOR EXIST. 24" CMP

STA 131+80 TO STA 131+85 RT.
CONSTRUCT 6'-15" PIPE CULVERT,
CLASS D, TYPE 1, (TEMPORARY)

STA 149+71, RT
CONSTRUCT 10'-18" PIPE CULVERT,
CLASS D, TYPE 1, (TEMPORARY)
1-METAL END SECTION, 18"
(INTERIM DRAINAGE)

STA 149+82, RT
CONSTRUCT 10'-18" PIPE CULVERT,
CLASS D, TYPE 1, (TEMPORARY)
1-METAL END SECTION, 18"
(INTERIM DRAINAGE)

STA 149+71, 10'
TEMPORARY CULVERT
EXTENSION FOR EXIST.
18" CMP
INCLUDING RELOCATION OF FES

STA 149+82, 10' TEMPORARY CULVERT-
EXTENSION FOR EXIST 18" SS
INCLUDING RELOCATION OF FES

SEE SHEET 49A FOR DETAILS
STA 139+40 TO STA 139+60] RT.
CONSTRUCT 18'-15" PIPE CULVERT,
CLASS D, TYPE 1, (TEMPORARY)
(INCLUDES 2-45° PIPE ELBOWS)

STA. 140+70 TO STA 140+90] RT.
CONSTRUCT 18'-15" PIPE CULVERT,
CLASS D, TYPE 1, (TEMPORARY)
(INCLUDES 2-45° PIPE ELBOWS)

NOTES:

- SIGNING AND BARRICADING FOR TEMPORARY ROADWAY WIDENING SHALL BE IN ACCORDANCE WITH STANDARDS 701326 AND 701501 AS APPLICABLE.
- FOR SIGN LEGEND SEE DRAWING NO. MOT2
- TEMPORARY PAINT PAVEMENT MARKINGS SHALL BE USED ON TEMPORARY PAVEMENT FOR STAGE CONSTRUCTION. (PAY FOR AS TEMPORARY PAVEMENT MARKING OF THE SIZE SPECIFIED.)
- PAVEMENT MARKING TAPE SHALL BE USED ON FINAL PAVEMENT FOR STAGE CONSTRUCTION.
- THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED FOR FINAL PAVEMENT MARKINGS.

** PAY FOR AS REMOVE AND RELAY PIPE CULVERTS, 12"

35 MPH SPEED LIMIT SIGN POST IN CONSTRUCTION ZONE

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
TEMPORARY WIDENING AND M.O.T. STAGE 1
STA 114+00 TO 150+00

McDonough Associates Inc.
Engineers/Architects

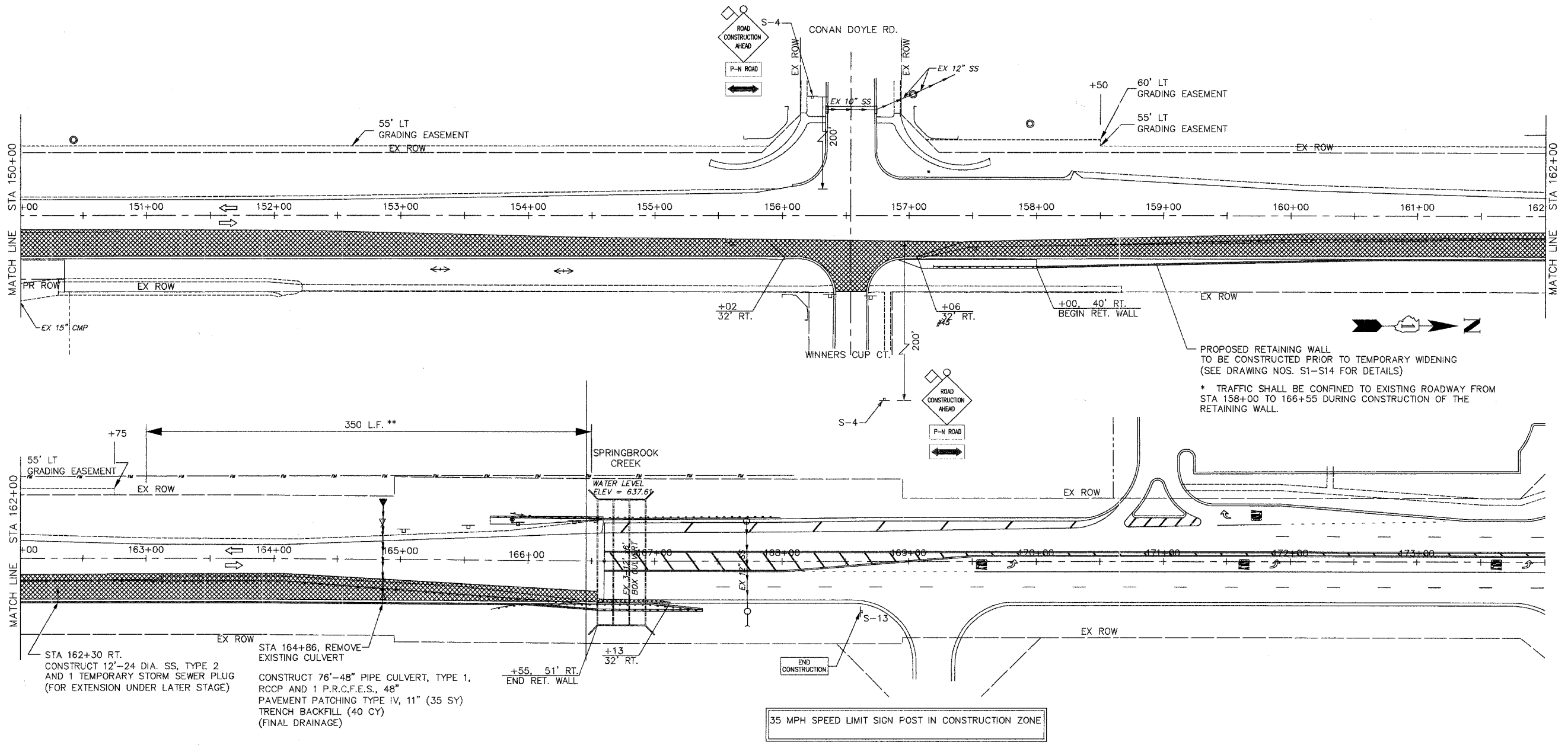
DESIGNED BY: MC
CHECKED BY: NJL
DRAWN BY: JTF

SCALE:
1" = 40'

P3
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT1 1-4.dwg
PLOT DATE: 07/08/05 - 10:31

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	29
FED. ROAD DIST. NO. 7	ALINDS	FED. AID PROJECT		
* 98-00036-19-FP				
CONTRACT NO. 83896				

INDICATES TEMPORARY PAVEMENT



STA 162+30 RT. CONSTRUCT 12"-24 DIA. SS, TYPE 2 AND 1 TEMPORARY STORM SEWER PLUG (FOR EXTENSION UNDER LATER STAGE)

STA 164+86, REMOVE EXISTING CULVERT
 CONSTRUCT 76"-48" PIPE CULVERT, TYPE 1, RCCP AND 1 P.R.C.F.E.S., 48" PAVEMENT PATCHING TYPE IV, 11" (35 SY) TRENCH BACKFILL (40 CY) (FINAL DRAINAGE)

+55, 51' RT. END RET. WALL

35 MPH SPEED LIMIT SIGN POST IN CONSTRUCTION ZONE

** THE CONTRACTOR SHALL CONSTRUCT 350 LF OF TEMPORARY GUARD RAIL ON INTERIM BASIS AND CONNECT TO EXISTING GUARDRAIL @ STATIONS 163+0 AND 166+50 RT. TO PROTECT MOTORING PUBLIC WHILE CONSTRUCTING PROPOSED RETAINING WALL.

NOTES:

- SIGNING AND BARRICADING FOR TEMPORARY ROADWAY WIDENING SHALL BE IN ACCORDANCE WITH STANDARDS 701326 AND 701501 AS APPLICABLE.
- FOR SIGN LEGEND SEE DRAWING NO. MOT2
- TEMPORARY PAINT PAVEMENT MARKINGS SHALL BE USED ON TEMPORARY PAVEMENT FOR STAGE CONSTRUCTION. (PAY FOR AS TEMPORARY PAVEMENT MARKING OF THE SIZE SPECIFIED.)
- PAVEMENT MARKING TAPE SHALL BE USED ON FINAL PAVEMENT FOR STAGE CONSTRUCTION.
- THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED FOR FINAL PAVEMENT MARKINGS.

P4
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT1 1-4.dwg
 PLOT DATE: 07/08/05 - 10:31

NO.	DATE	REVISION	BY

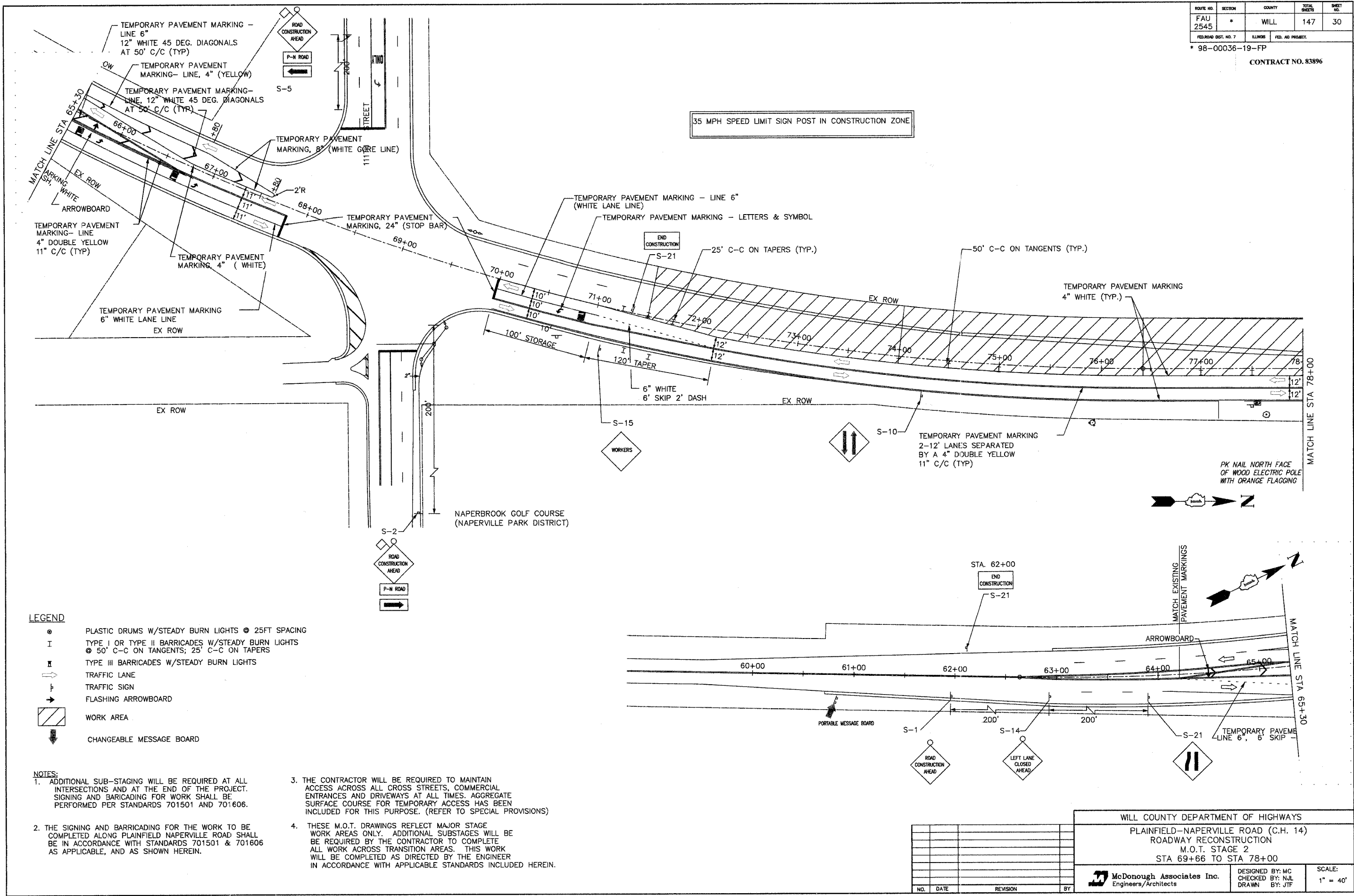
WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 TEMPORARY WIDENING AND M.O.T. STAGE 1
 STA 150+00 TO 170+00

McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: MC
 CHECKED BY: NJL
 DRAWN BY: JTF

SCALE:
 1" = 40'

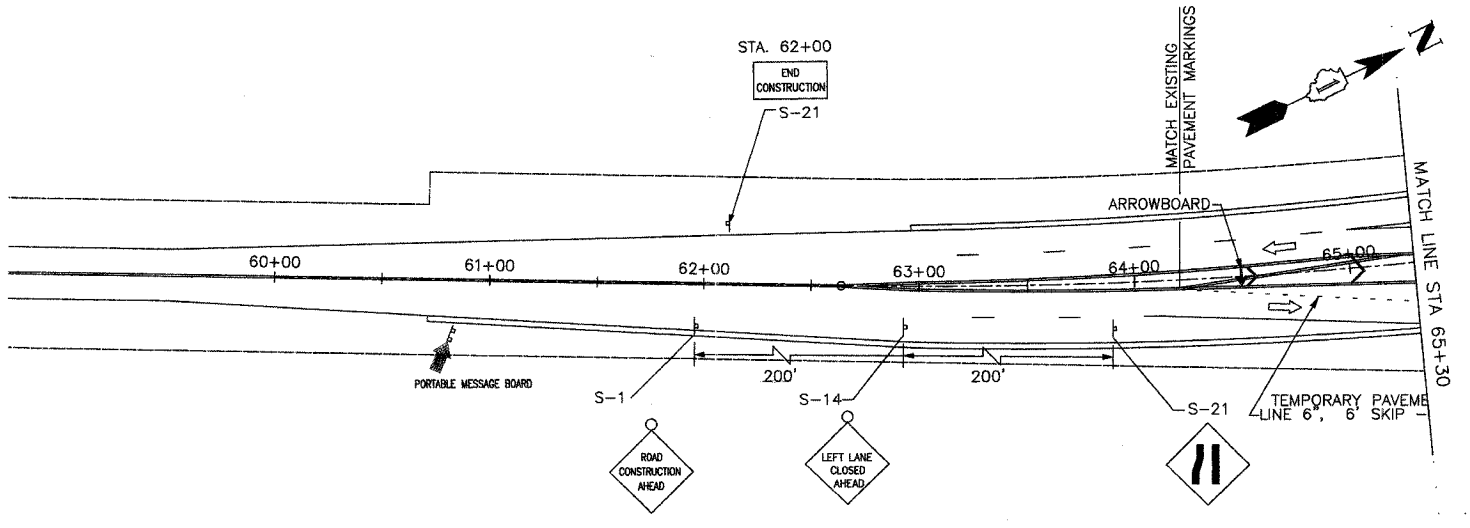
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	30
FED. ROAD DIST. NO. 7		LLINER	FED. AID PROJECT	
* 98-00036-19-FP				
CONTRACT NO. 83896				



35 MPH SPEED LIMIT SIGN POST IN CONSTRUCTION ZONE

- LEGEND**
- ⊙ PLASTIC DRUMS W/STEADY BURN LIGHTS @ 25FT SPACING
 - I TYPE I OR TYPE II BARRICADES W/STEADY BURN LIGHTS
 - ⊙ 50' C-C ON TANGENTS; 25' C-C ON TAPERS
 - II TYPE III BARRICADES W/STEADY BURN LIGHTS
 - ⇨ TRAFFIC LANE
 - ⇨ TRAFFIC SIGN
 - ⇨ FLASHING ARROWBOARD
 - ▨ WORK AREA
 - ⇨ CHANGEABLE MESSAGE BOARD

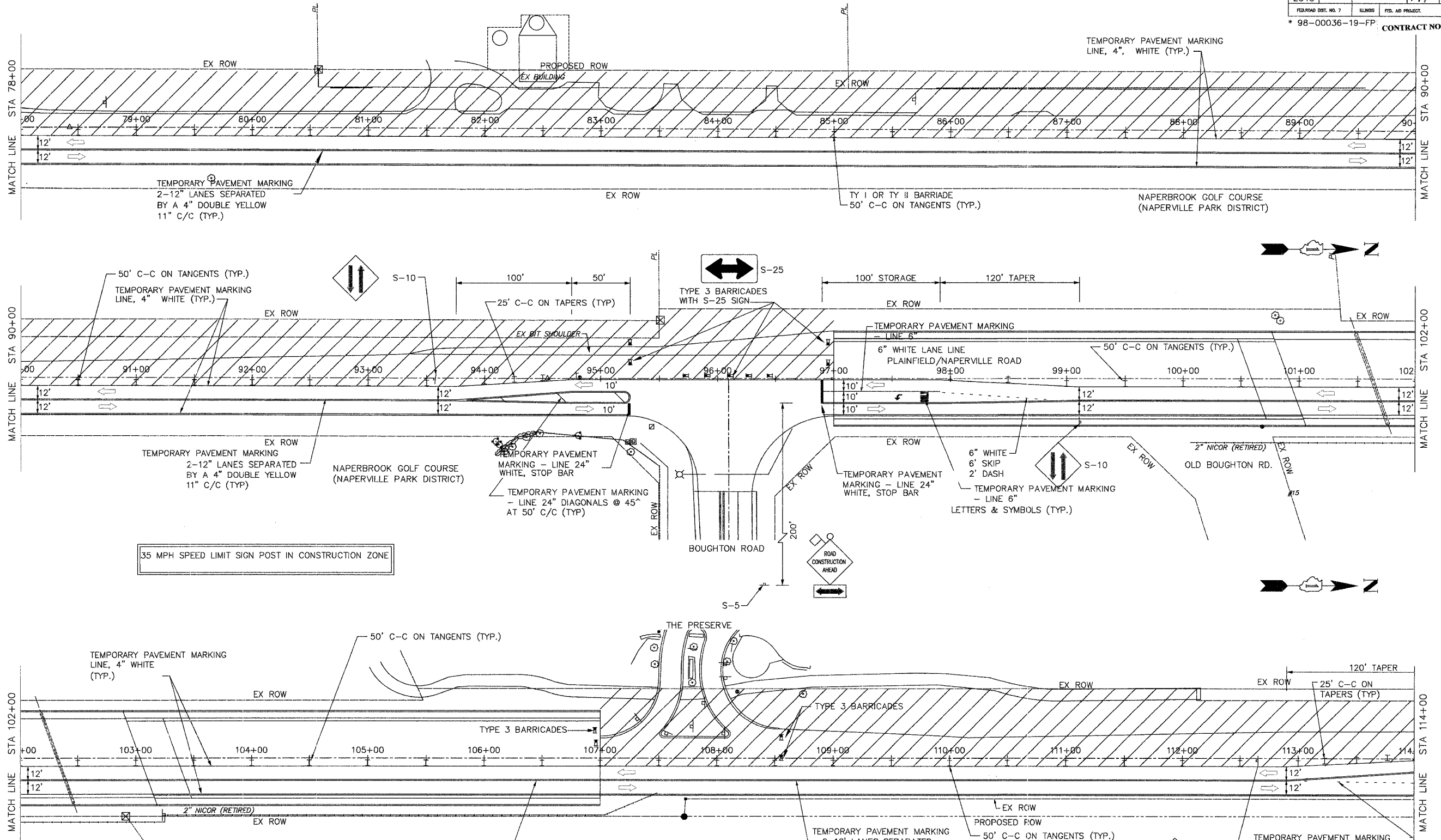
- NOTES:**
- ADDITIONAL SUB-STAGING WILL BE REQUIRED AT ALL INTERSECTIONS AND AT THE END OF THE PROJECT. SIGNING AND BARRICADING FOR WORK SHALL BE PERFORMED PER STANDARDS 701501 AND 701606.
 - THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN ACCESS ACROSS ALL CROSS STREETS, COMMERCIAL ENTRANCES AND DRIVEWAYS AT ALL TIMES. AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS HAS BEEN INCLUDED FOR THIS PURPOSE. (REFER TO SPECIAL PROVISIONS)
 - THESE M.O.T. DRAWINGS REFLECT MAJOR STAGE WORK AREAS ONLY. ADDITIONAL SUBSTAGES WILL BE REQUIRED BY THE CONTRACTOR TO COMPLETE ALL WORK ACROSS TRANSITION AREAS. THIS WORK WILL BE COMPLETED AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH APPLICABLE STANDARDS INCLUDED HEREIN.



WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
M.O.T. STAGE 2			
STA 69+66 TO STA 78+00			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: MC CHECKED BY: NUL DRAWN BY: JTF	SCALE: 1" = 40'
NO.	DATE	REVISION	BY

P1
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT2 1-4.dwg
 PLOT DATE: 07/08/05 - 10:33

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL.	147	31
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* 98-00036-19-FP CONTRACT NO. 83896				



35 MPH SPEED LIMIT SIGN POST IN CONSTRUCTION ZONE

LEGEND

- PLASTIC DRUMS W/STEADY BURN LIGHTS @ 25FT SPACING
- I TYPE I OR TYPE II BARRICADES W/STEADY BURN LIGHTS @ 50' C-C ON TANGENTS; 25' C-C ON TAPERS
- II TYPE III BARRICADES W/STEADY BURN LIGHTS
- ⇨ TRAFFIC LANE
- ⊥ TRAFFIC SIGN
- FLASHING ARROWBOARD
- ▨ WORK AREA

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 M.O.T. STAGE 2
 STA 78+00 TO STA 114+00

McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: MC
 CHECKED BY: NJL
 DRAWN BY: JTF

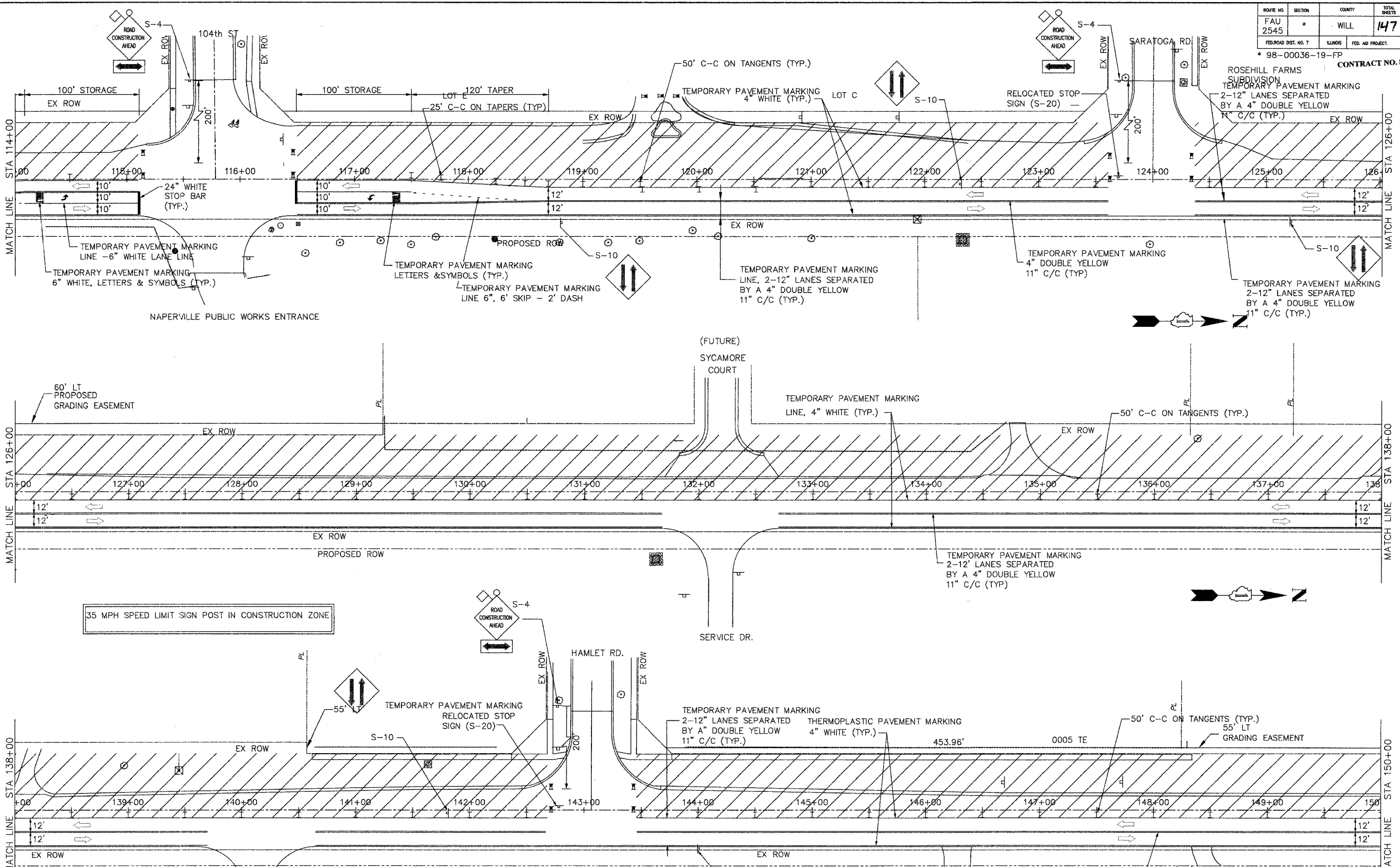
SCALE:
 1" = 40'

P2
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\W072_1-4.dwg
 PLOT DATE: 07/08/05 - 10:33

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	32
FED. ROAD DIST. NO. 7		LANES	FED. AID PROJECT	

* 98-00036-19-FP
CONTRACT NO. 83896

ROSEHILL FARMS SUBDIVISION
 TEMPORARY PAVEMENT MARKING
 2-12" LANES SEPARATED BY A 4" DOUBLE YELLOW 11" C/C (TYP.)



35 MPH SPEED LIMIT SIGN POST IN CONSTRUCTION ZONE

LEGEND

	PLASTIC DRUMS W/STEADY BURN LIGHTS @ 25FT SPACING
	TYPE I OR TYPE II BARRICADES W/STEADY BURN LIGHTS
	TYPE III BARRICADES W/STEADY BURN LIGHTS
	TRAFFIC LANE
	TRAFFIC SIGN
	FLASHING ARROWBOARD
	WORK AREA

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 M.O.T. STAGE 2
 STA 114+00 TO 150+00

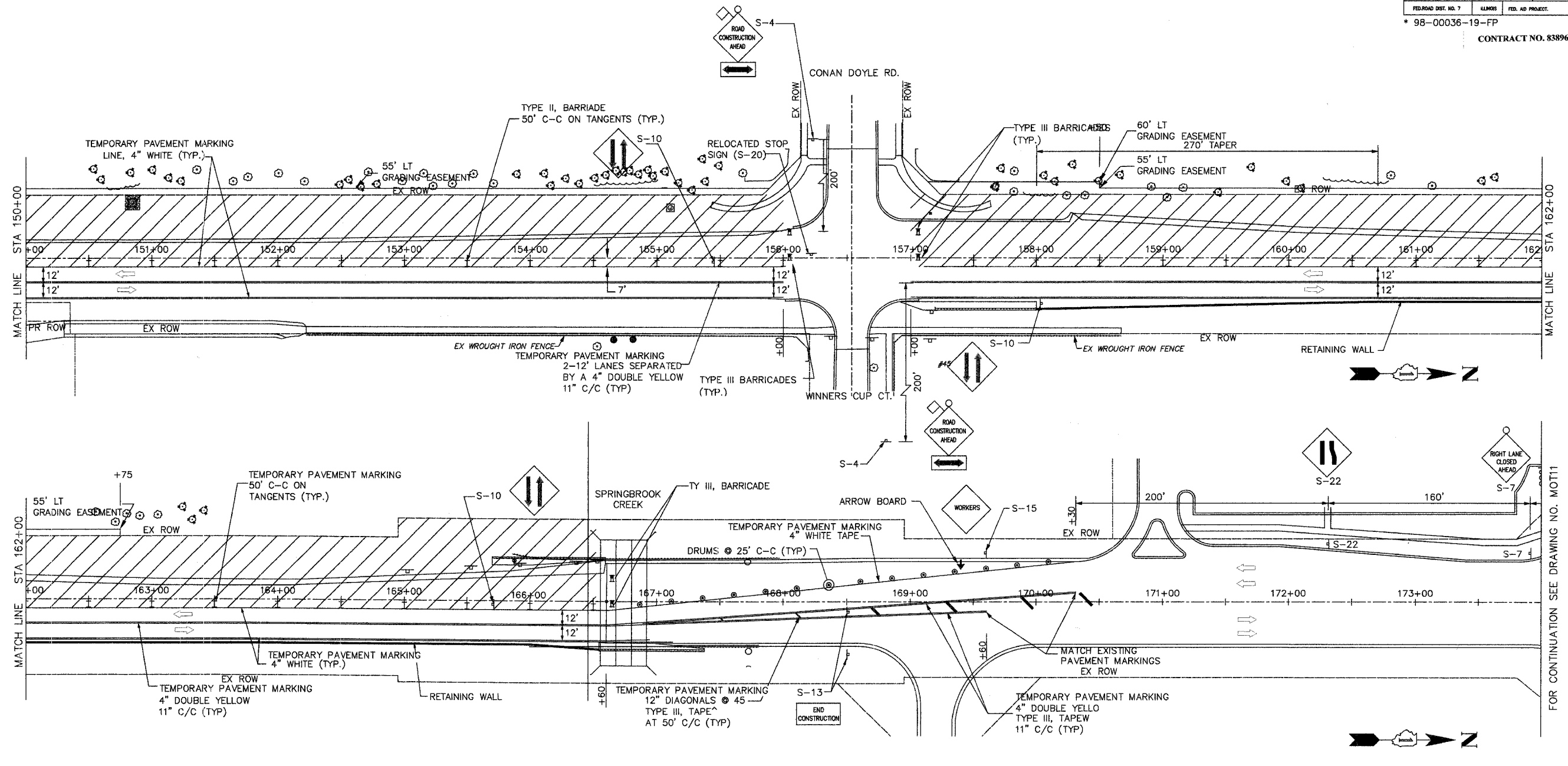
McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: MC
 CHECKED BY: NJL
 DRAWN BY: JTF

SCALE:
 1" = 40'

P3
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT2 1-4.dwg
 PLOT DATE: 07/08/05 - 10:33

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	33
FED. ROAD DIST. NO. 7	ALLEGES	FED. AID PROJECT		
* 98-00036-19-FP				
CONTRACT NO. 83896				



35 MPH SPEED LIMIT SIGN POST IN CONSTRUCTION ZONE

- LEGEND**
- PLASTIC DRUMS W/STEADY BURN LIGHTS @ 25FT SPACING
 - I TYPE I OR TYPE II BARRICADES W/STEADY BURN LIGHTS @ 50' C-C ON TANGENTS; 25' C-C ON TAPERS
 - II TYPE III BARRICADES W/STEADY BURN LIGHTS
 - ⇨ TRAFFIC LANE
 - ↑ TRAFFIC SIGN
 - FLASHING ARROWBOARD
 - ▨ WORK AREA

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
M.O.T. STAGE 2
STA 150+00 TO 173+00

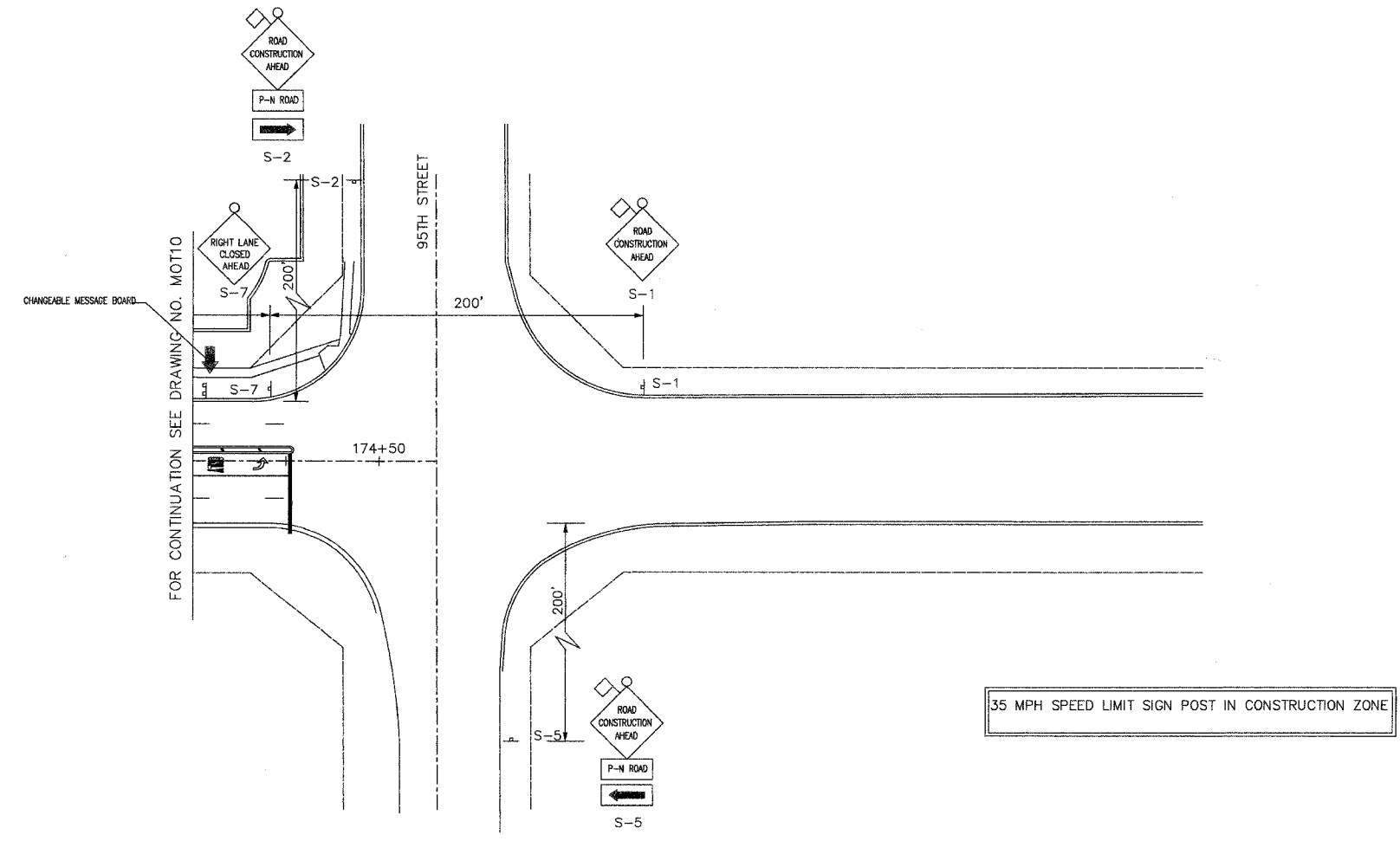
McDonough Associates Inc.
Engineers/Architects

DESIGNED BY: MC
CHECKED BY: N.J.L.
DRAWN BY: J.T.F.

SCALE:
1" = 40'

P4
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT2 1-4.dwg
PLOT DATE: 07/08/05 - 10:33

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	34
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT.	
* 98-00036-19-FP				
CONTRACT NO. 83896				



- LEGEND**
- ⊙ PLASTIC DRUMS W/STEADY BURN LIGHTS ⊙ 25FT SPACING
 - I TYPE I OR TYPE II BARRICADES W/STEADY BURN LIGHTS
⊙ 50' C-C ON TANGENTS; 25' C-C ON TAPERS
 - III TYPE III BARRICADES W/STEADY BURN LIGHTS
 - TRAFFIC LANE
 - ↑ TRAFFIC SIGN
 - FLASHING ARROWBOARD
 - ▨ WORK AREA
 - ↓ CHANGEABLE MESSAGE BOARD

NO.	DATE	REVISION	BY

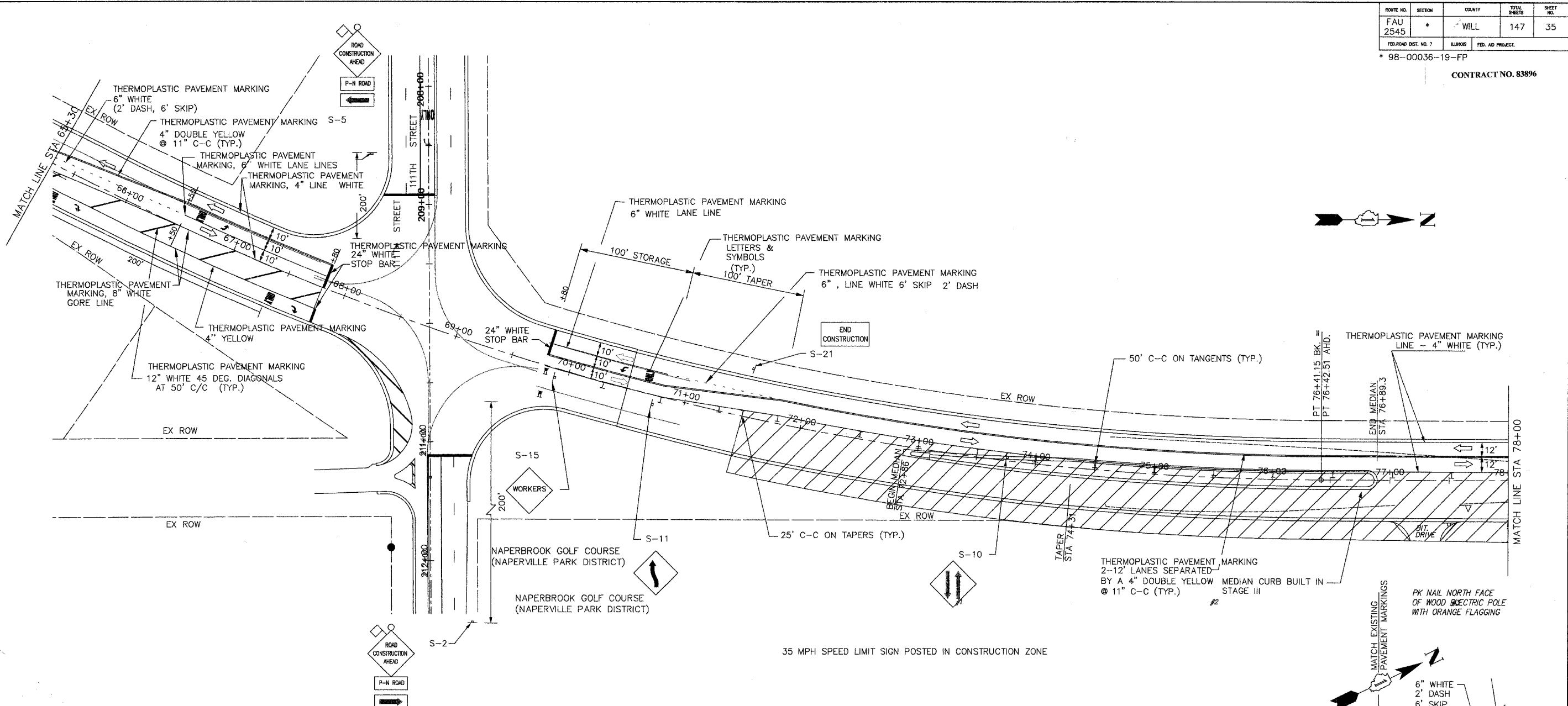
WILL COUNTY DEPARTMENT OF HIGHWAYS		
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)		
ROADWAY RECONSTRUCTION		
M.O.T. STAGE 2		
STA 173+50 TO 95TH STREET		
 McDonough Associates Inc. Engineers/Architects	DESIGNED BY: MC	SCALE:
	CHECKED BY: NJL	1" = 40'
	DRAWN BY: JTF	

P4
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT2 1-4.dwg
 PLOT DATE: 07/08/05 - 10:33

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	35
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

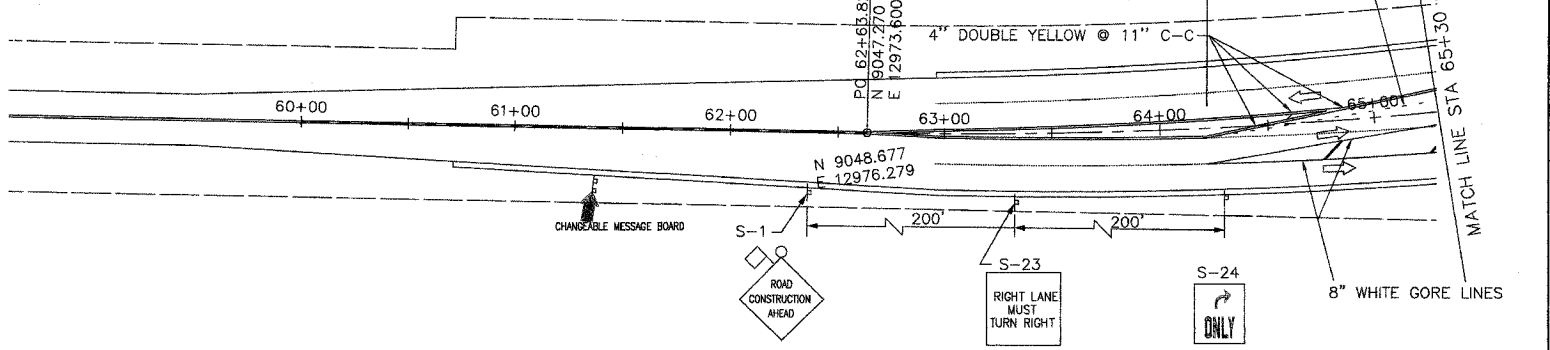
* 98-00036-19-FP

CONTRACT NO. 83896



- LEGEND**
- PLASTIC DRUMS W/STEADY BURN LIGHTS @ 25FT SPACING
 - I TYPE I OR TYPE II BARRICADES W/STEADY BURN LIGHTS @ 50' C-C ON TANGENTS; 25' C-C ON TAPERS
 - II TYPE III BARRICADES W/STEADY BURN LIGHTS
 - ⇨ TRAFFIC LANE
 - ⊥ TRAFFIC SIGN
 - FLASHING ARROWBOARD
 - ▨ WORK AREA

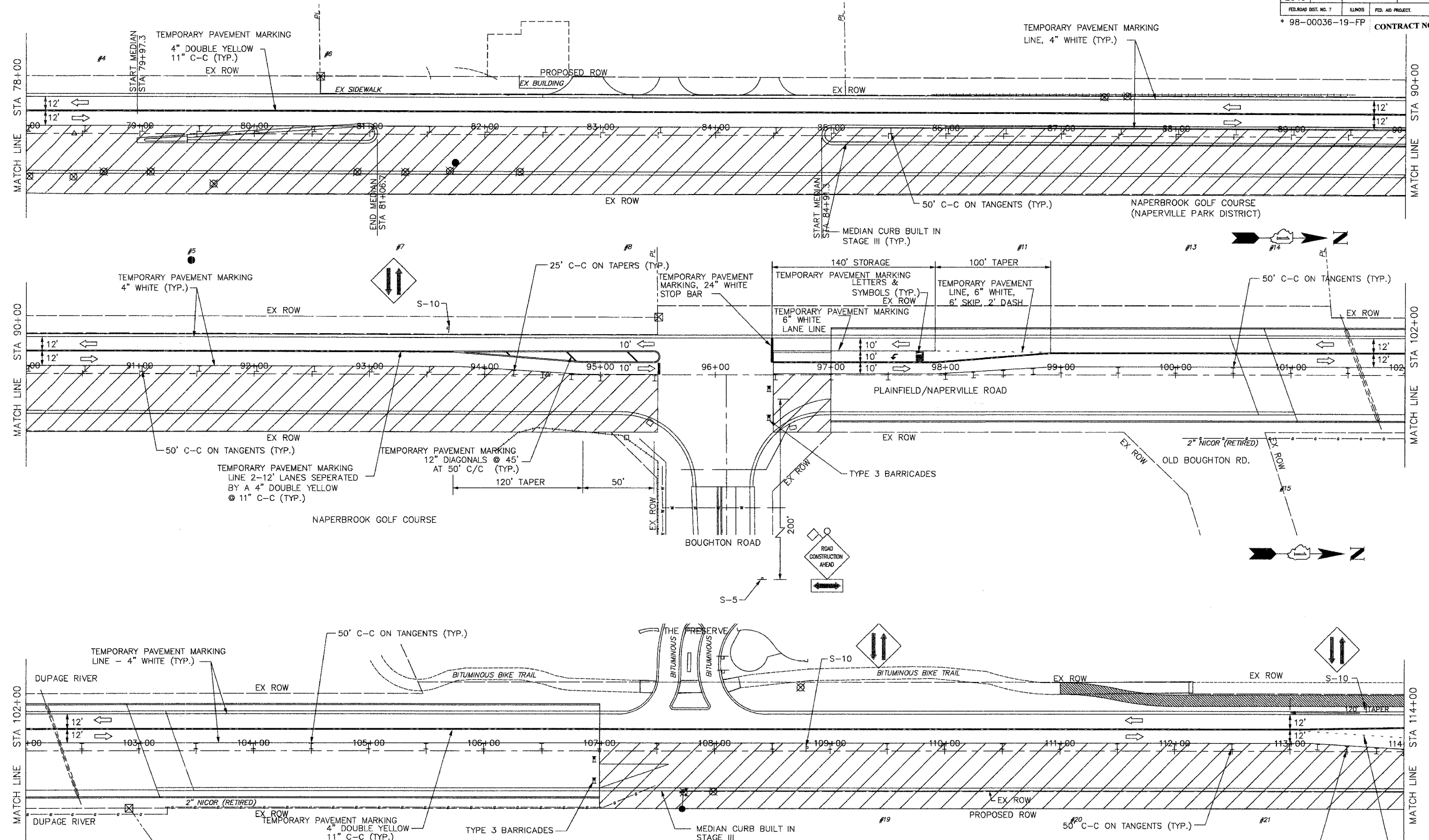
- NOTES:**
- ADDITIONAL SUB-STAGING WILL BE REQUIRED AT ALL INTERSECTIONS AND AT THE END OF THE PROJECT. SIGNING AND BARRICADING FOR WORK SHALL BE PERFORMED PER STANDARDS 701501 AND 701606.
 - THE SIGNING AND BARRICADING FOR THE WORK TO BE COMPLETED ALONG PLAINFIELD NAPERVILLE ROAD SHALL BE IN ACCORDANCE WITH STANDARDS 701501 & 701606 AS APPLICABLE, AND AS SHOWN HEREIN.
 - THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN ACCESS ACROSS ALL CROSS STREETS, COMMERCIAL ENTRANCES AND DRIVEWAYS AT ALL TIMES. AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS HAS BEEN INCLUDED FOR THIS PURPOSE. (REFER TO SPECIAL PROVISIONS)
 - THESE M.O.T. DRAWINGS REFLECT MAJOR STAGE WORK AREAS ONLY. ADDITIONAL SUBSTAGES WILL BE REQUIRED BY THE CONTRACTOR TO COMPLETE ALL WORK ACROSS TRANSITION AREAS. THIS WORK WILL BE COMPLETED AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH APPLICABLE STANDARDS INCLUDED HEREIN.



WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
M.O.T. STAGE 3			
STA 69+60 TO STA 78+00			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: MC CHECKED BY: NLL DRAWN BY: JTF	SCALE: 1" = 40'
NO.	DATE	REVISION	BY

P1
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT3 1-4.dwg
PLOT DATE: 07/08/05 - 10:33

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	36
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	* 98-00036-19-FP CONTRACT NO. 83896	



- LEGEND**
- ⊙ #18 PLASTIC DRUMS W/STEADY BURN LIGHTS @ 25FT SPACING
 - I TYPE I OR TYPE II BARRICADES W/STEADY BURN LIGHTS
 - ⊙ 50' C-C ON TANGENTS; 25' C-C ON TAPERS
 - III TYPE III BARRICADES W/STEADY BURN LIGHTS
 - TRAFFIC LANE
 - ⊥ TRAFFIC SIGN
 - FLASHING ARROWBOARD
 - ▨ WORK AREA

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 M.O.T. STAGE 3
 STA 78+00 TO STA 114+00

McDonough Associates Inc.
 Engineers/Architects

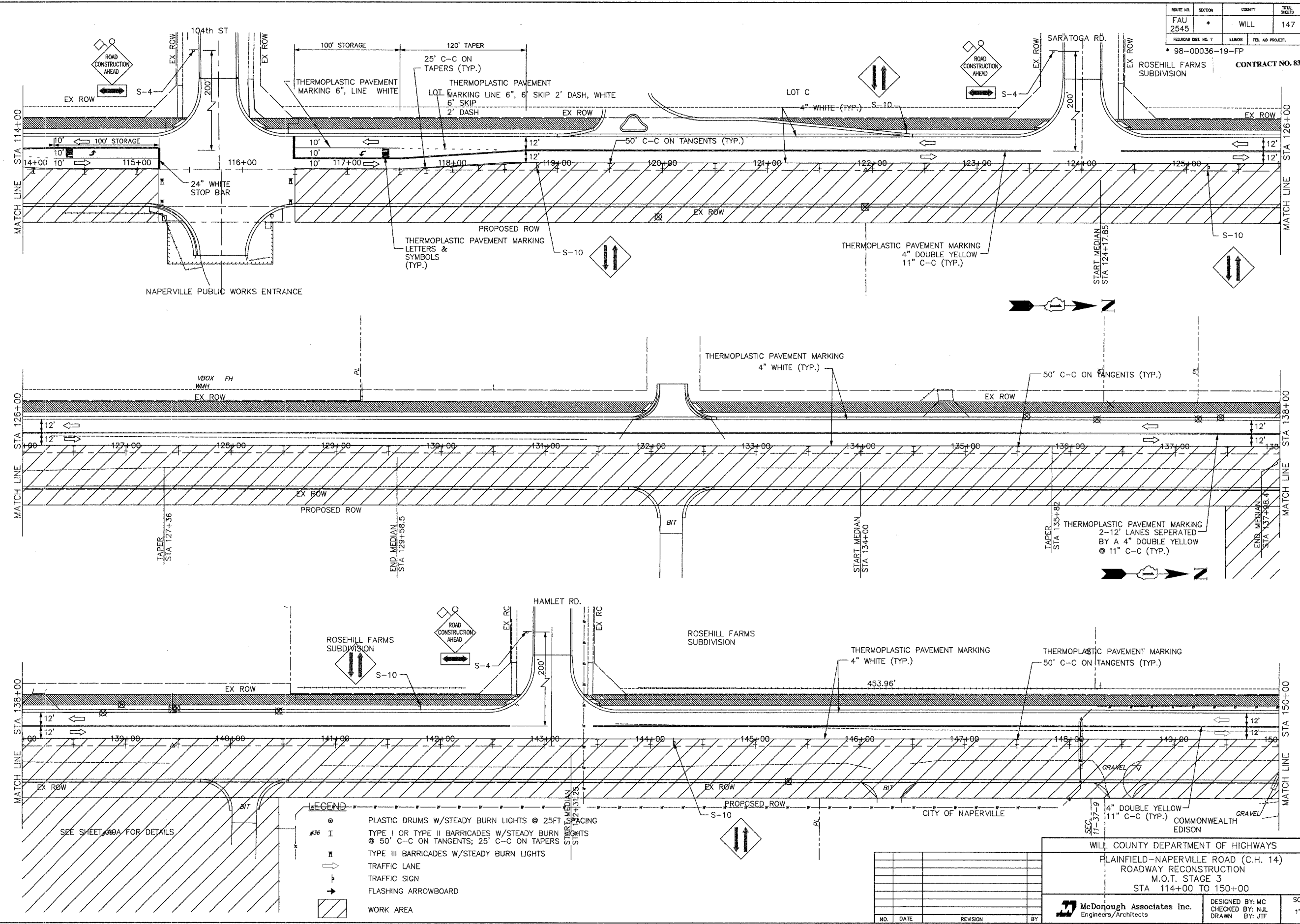
DESIGNED BY: MC
 CHECKED BY: N.J.L.
 DRAWN BY: JTF

SCALE:
 1" = 40'

P2
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT3 1-4.dwg
 PLOT DATE: 07/08/05 - 10:33

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	37
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:	* 98-00036-19-FP	

CONTRACT NO. 83896
ROSEHILL FARMS SUBDIVISION



LEGEND

●	PLASTIC DRUMS W/STEADY BURN LIGHTS @ 25FT SPACING
⊠	TYPE I OR TYPE II BARRICADES W/STEADY BURN LIGHTS
⊠	⑤ 50' C-C ON TANGENTS; 25' C-C ON TAPERS
⊠	TYPE III BARRICADES W/STEADY BURN LIGHTS
→	TRAFFIC LANE
⊠	TRAFFIC SIGN
→	FLASHING ARROWBOARD
▨	WORK AREA

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
M.O.T. STAGE 3
STA 114+00 TO 150+00

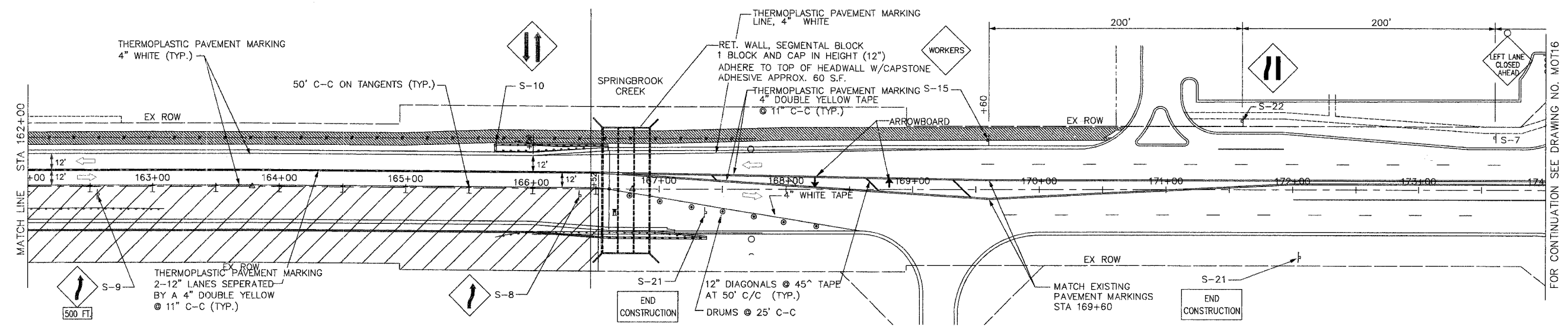
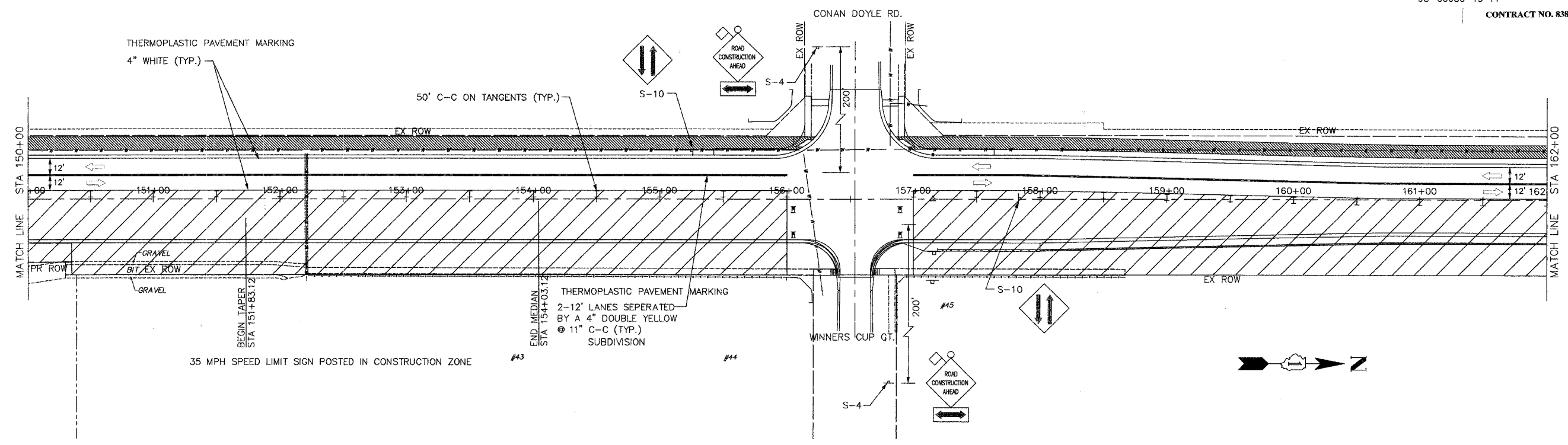
McDonough Associates Inc.
Engineers/Architects

DESIGNED BY: MC
CHECKED BY: NUL
DRAWN BY: JTF

SCALE:
1" = 40'

P3
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT14 1-4.dwg
PLOT DATE: 07/08/05 - 10:33

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	38
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* 98-00036-19-FP				
CONTRACT NO. 83896				



- LEGEND**
- PLASTIC DRUMS W/STEADY BURN LIGHTS @ 25FT SPACING
 - I TYPE I OR TYPE II BARRICADES W/STEADY BURN LIGHTS @ 50' C-C ON TANGENTS; 25' C-C ON TAPERS
 - II TYPE III BARRICADES W/STEADY BURN LIGHTS
 - TRAFFIC LANE
 - ↑ TRAFFIC SIGN
 - FLASHING ARROWBOARD
 - ▨ WORK AREA

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 M.O.T. STAGE 3
 STA 150+00 TO 173+50

McDonough Associates Inc.
 Engineers/Architects

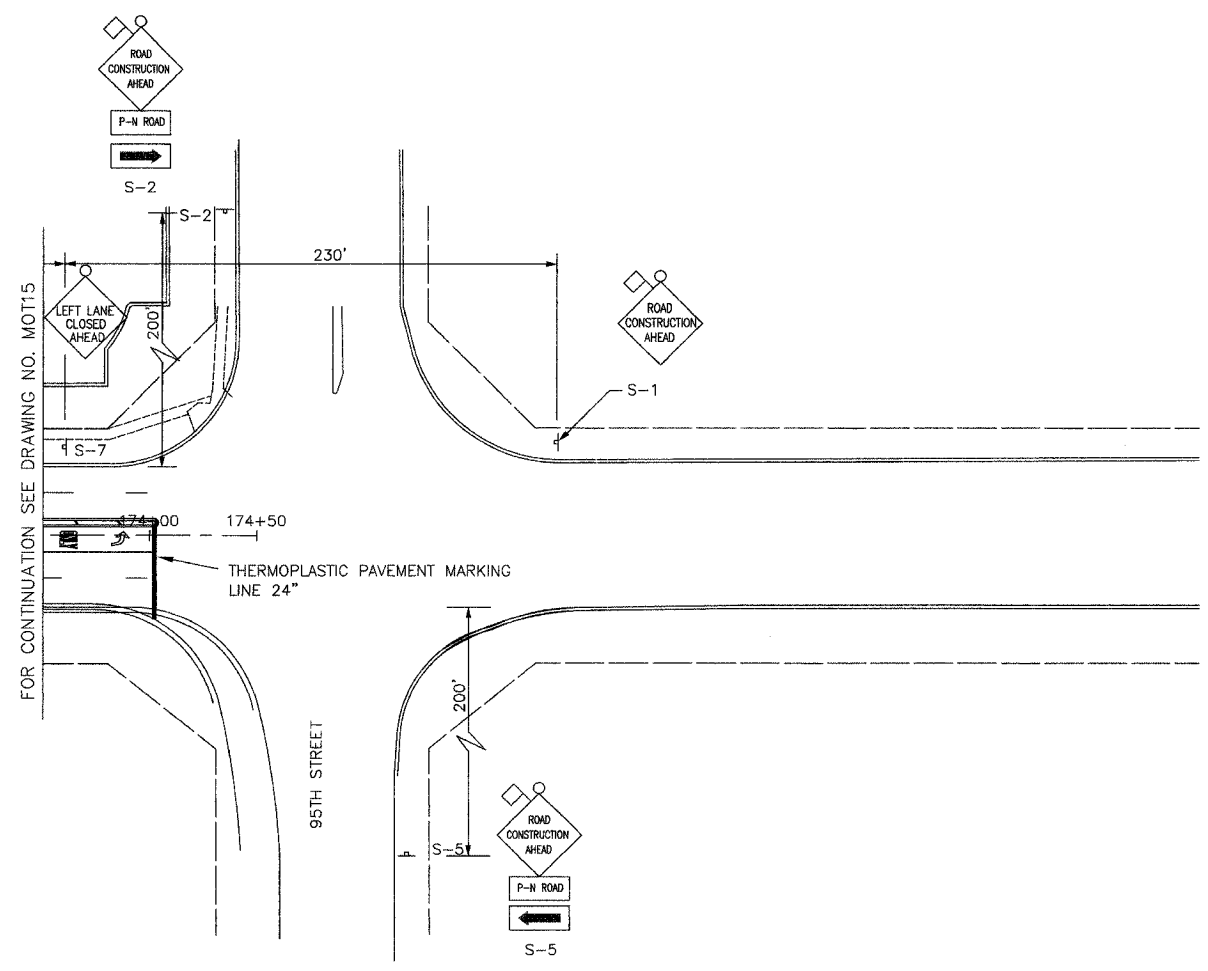
DESIGNED BY: MC
 CHECKED BY: NUL
 DRAWN BY: JTF

SCALE:
 1" = 40'

P4
 DRAWING ID: G:\200300023 - Plainfield-Naperville Road\dwg\MOT3 1-4.dwg
 PLOT DATE: 07/08/05 - 10:33

FOR CONTINUATION SEE DRAWING NO. MOT16

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	39
FED. ROAD DIST. NO. 7		ALINDS	FED. AID PROJECT.	
* 98-00036-19-FP		CONTRACT NO. 83896		



FOR CONTINUATION SEE DRAWING NO. MOT15

- LEGEND**
- ⊙ PLASTIC DRUMS W/STEADY BURN LIGHTS @ 25FT SPACING
 - I TYPE I OR TYPE II BARRICADES W/STEADY BURN LIGHTS
⊙ 50' C-C ON TANGENTS; 25' C-C ON TAPERS
 - III TYPE III BARRICADES W/STEADY BURN LIGHTS
 - TRAFFIC LANE
 - ↑ TRAFFIC SIGN
 - FLASHING ARROWBOARD
 - ▨ WORK AREA

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS		
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)		
ROADWAY RECONSTRUCTION		
M.O.T. STAGE 3		
STA 173+50 TO 95TH STREET		
 McDonough Associates Inc. Engineers/Architects	DESIGNED BY: MC CHECKED BY: N.J.L. DRAWN BY: J.T.F.	SCALE: 1" = 40'

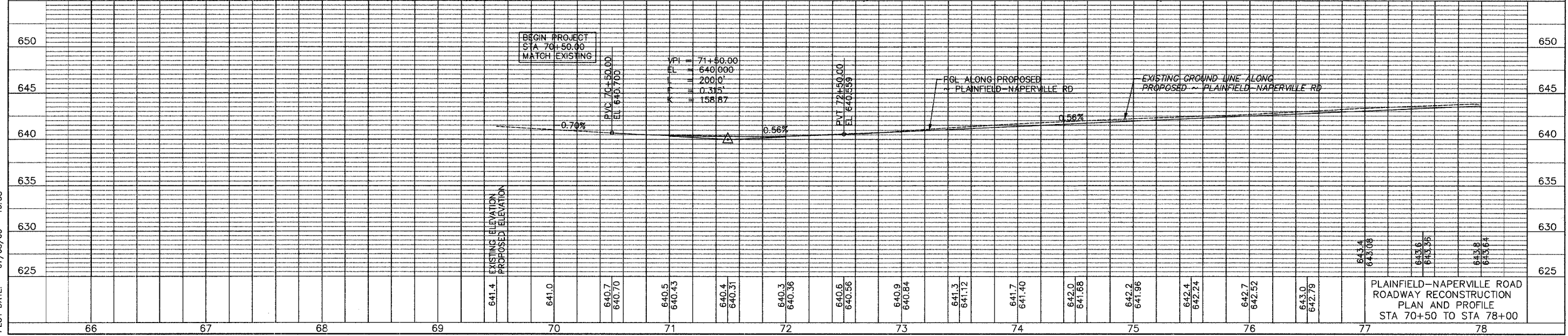
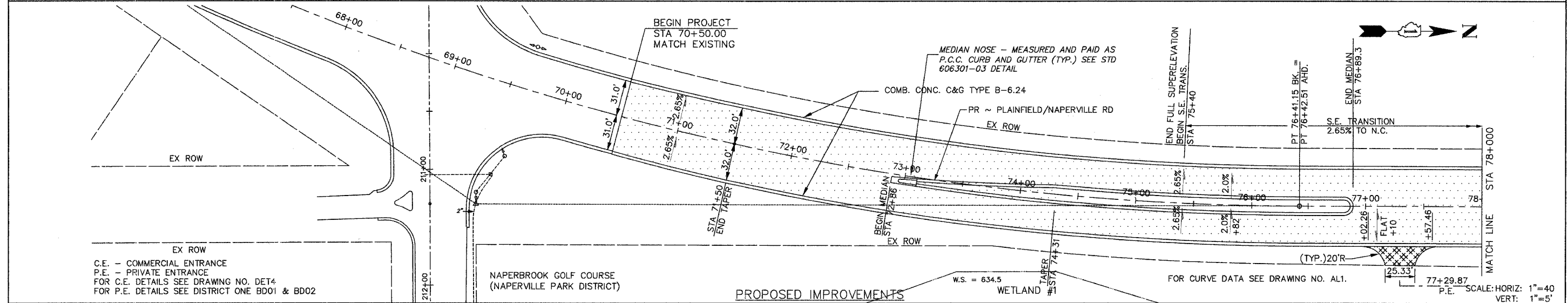
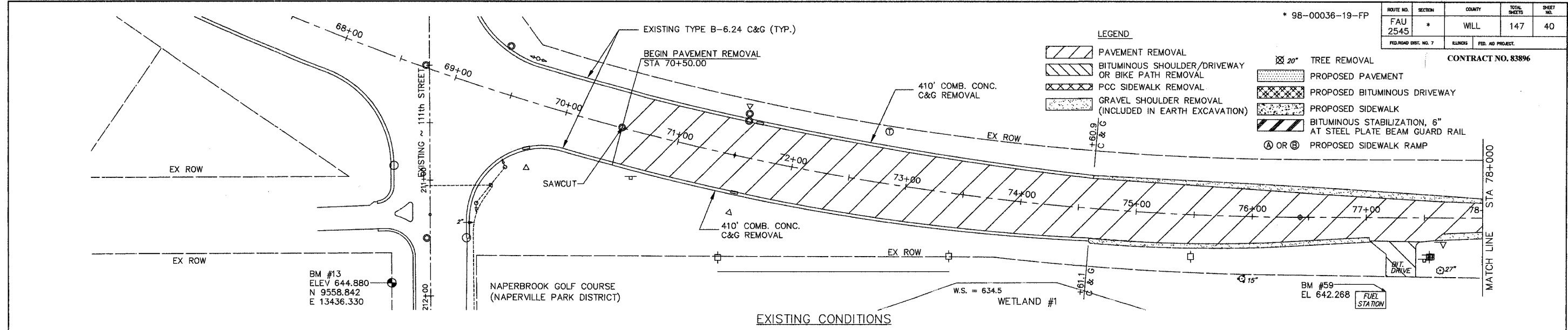
P4
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\MOT15 1-4.dwg
 PLOT DATE: 07/08/05 - 10:33

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	40
FED. ROAD DIST. NO. 7		BLKNO.	FID. AD PROJECT.	

CONTRACT NO. 83896

* 98-00036-19-FP

- LEGEND**
- PAVEMENT REMOVAL
 - BITUMINOUS SHOULDER/DRIVEWAY OR BIKE PATH REMOVAL
 - PCC SIDEWALK REMOVAL
 - GRAVEL SHOULDER REMOVAL (INCLUDED IN EARTH EXCAVATION)
 - 20' TREE REMOVAL
 - PROPOSED PAVEMENT
 - PROPOSED BITUMINOUS DRIVEWAY
 - PROPOSED SIDEWALK
 - BITUMINOUS STABILIZATION, 6" AT STEEL PLATE BEAM GUARD RAIL
 - PROPOSED SIDEWALK RAMP

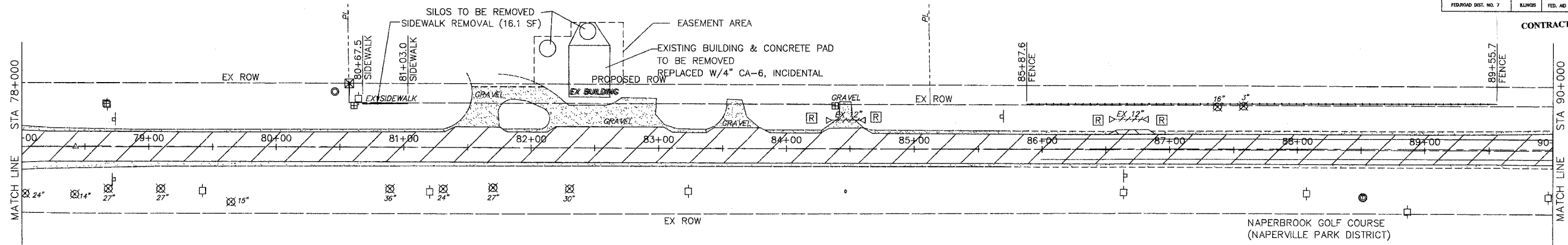


DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\PLANPRO1.dwg
PLOT DATE: 07/08/05 - 10:38

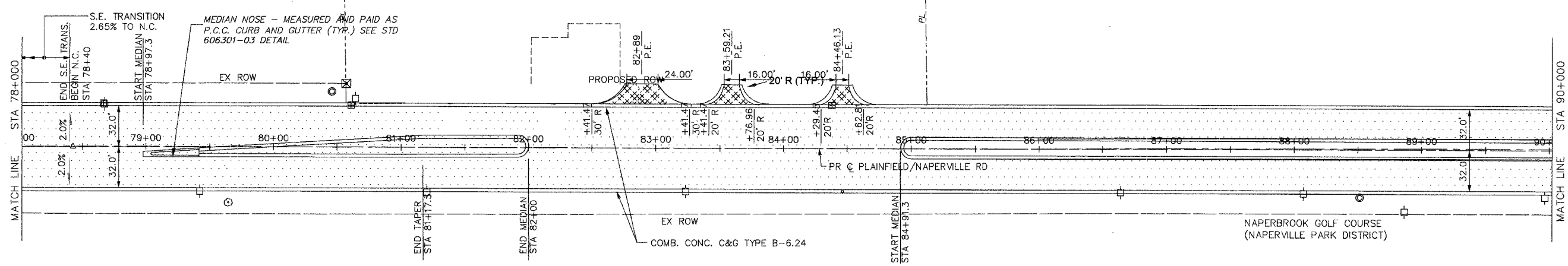
* 98-00036-19-FP

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	41
FED. ROAD DIST. NO. 7	BLMRS	FED. AID PROJECT:		

CONTRACT NO. 83896



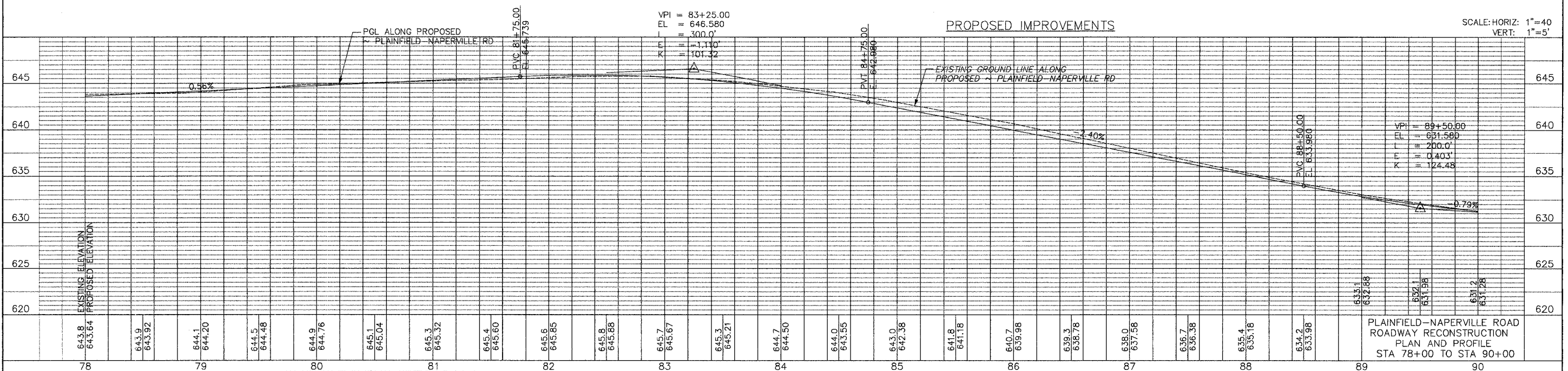
EXISTING CONDITIONS



FOR LEGEND SEE DRAWING NO. PP1

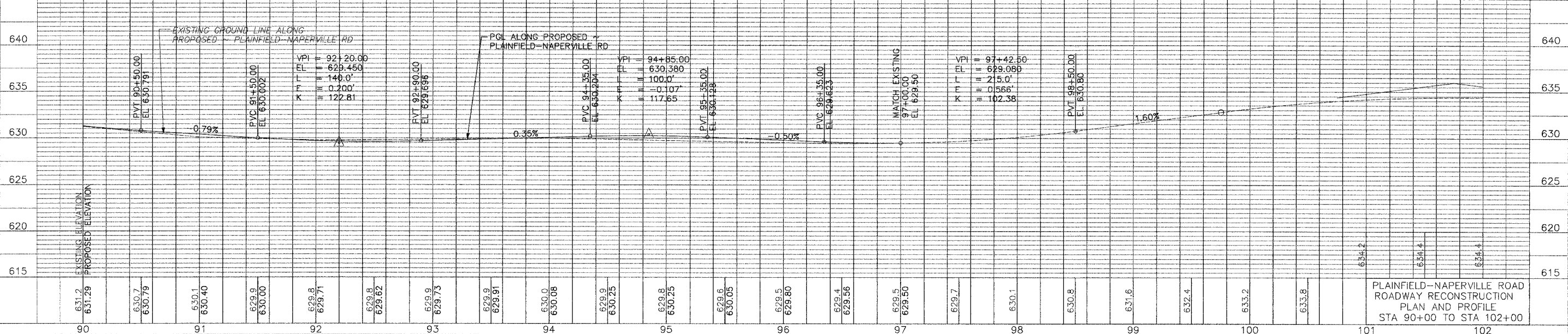
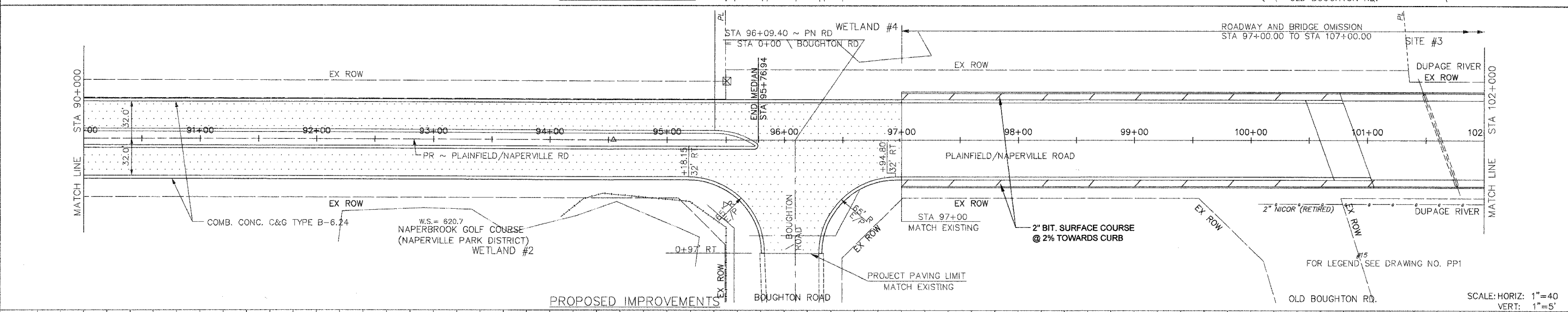
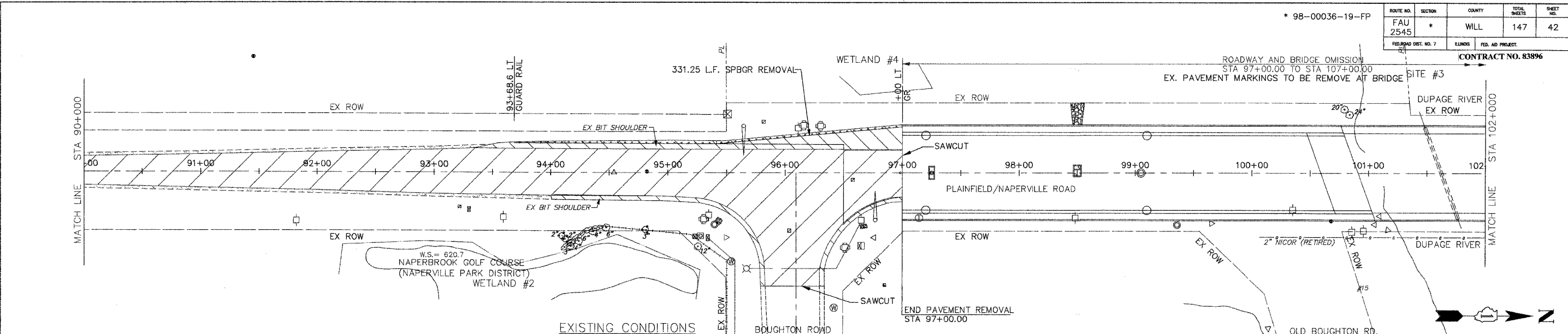
PROPOSED IMPROVEMENTS

SCALE: HORIZ: 1"=40'
VERT: 1"=5'



PLAINFIELD-NAPERVILLE ROAD
ROADWAY RECONSTRUCTION
PLAN AND PROFILE
STA 78+00 TO STA 90+00

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\PLNPRO2.dwg
PLOT DATE: 07/08/05 - 10:40



DRAWING ID: G:\20030023 - Plainfield-Naperville Road.dwg\PLNPRO3.dwg
 PLOT DATE: 07/08/05 - 10:41

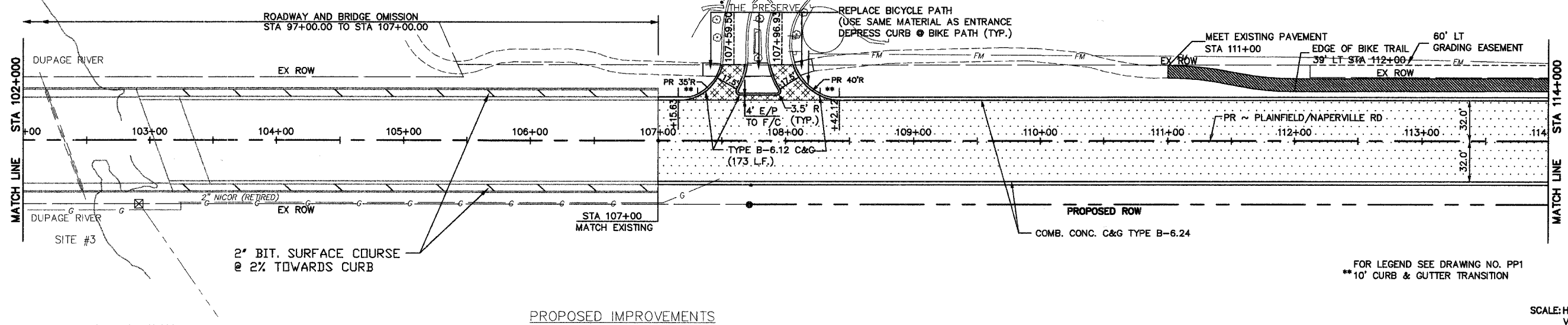
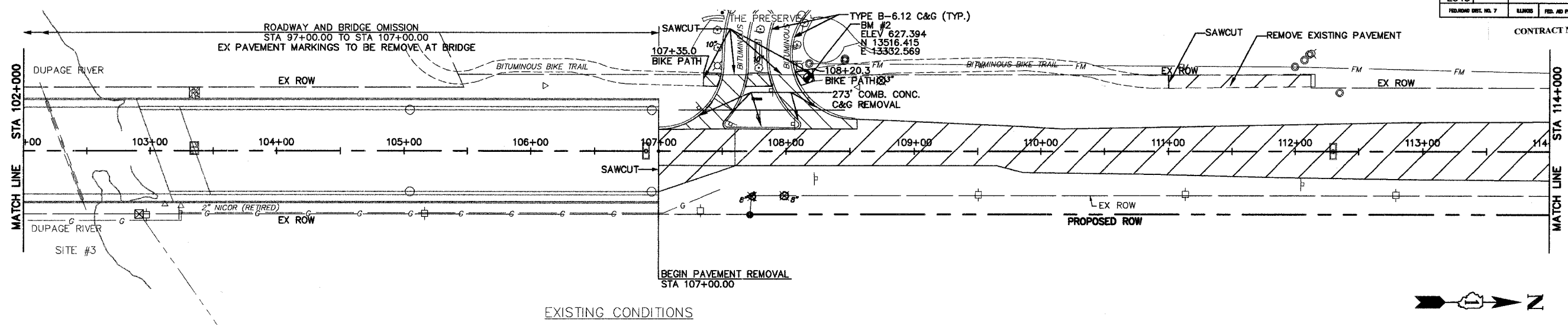
PLAINFIELD-NAPERVILLE ROAD
 ROADWAY RECONSTRUCTION
 PLAN AND PROFILE
 STA 90+00 TO STA 102+00

SCALE: HORIZ: 1"=40'
 VERT: 1"=5'

* 98-00036-19-FP

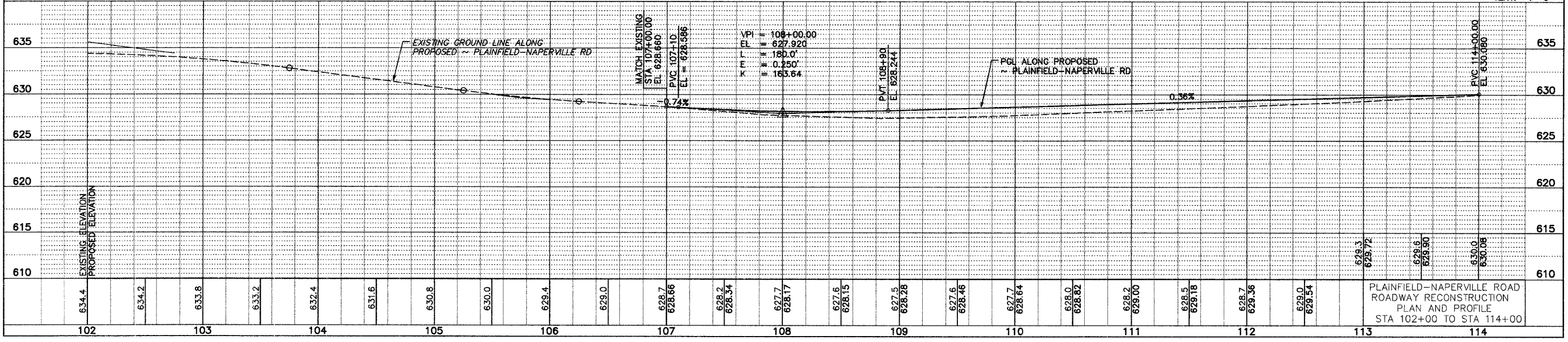
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	43
FEDERAL AID PROJ. NO. 7		BLANK	FED. AID PROJECT	

CONTRACT NO. 83896



FOR LEGEND SEE DRAWING NO. PP1
 **10' CURB & GUTTER TRANSITION

SCALE: HORIZ: 1"=40'
 VERT: 1"=5'



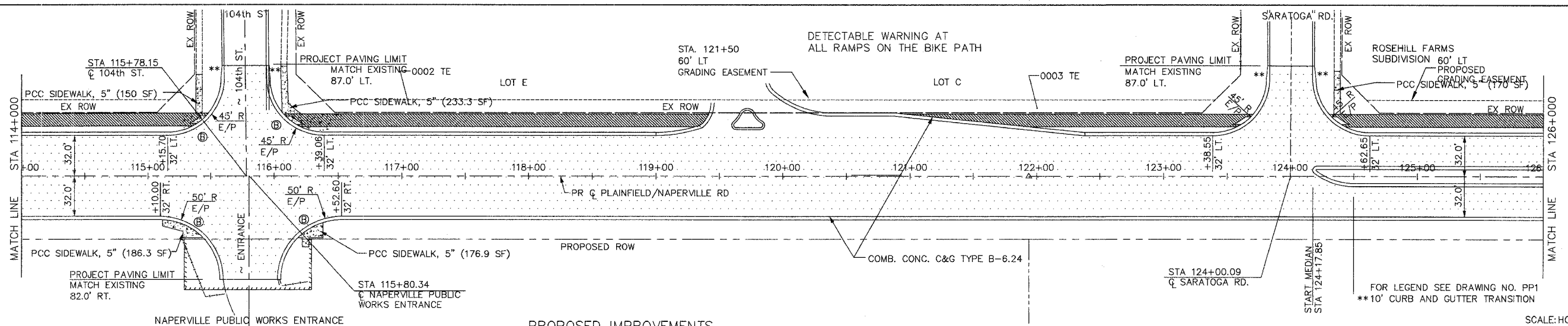
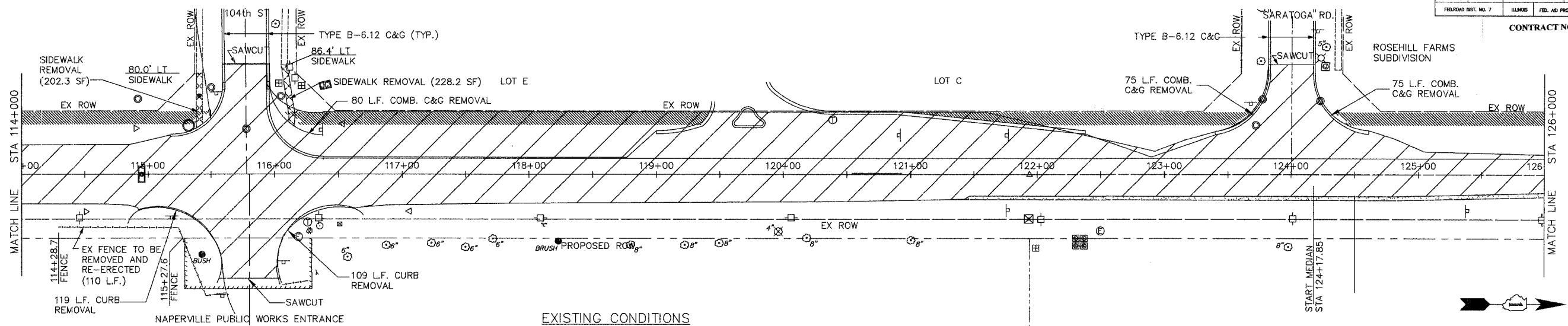
PLAINFIELD-NAPERVILLE ROAD
 ROADWAY RECONSTRUCTION
 PLAN AND PROFILE
 STA 102+00 TO STA 114+00

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\PLANPR04.dwg
 PLOT DATE: 07/08/05 - 10:43

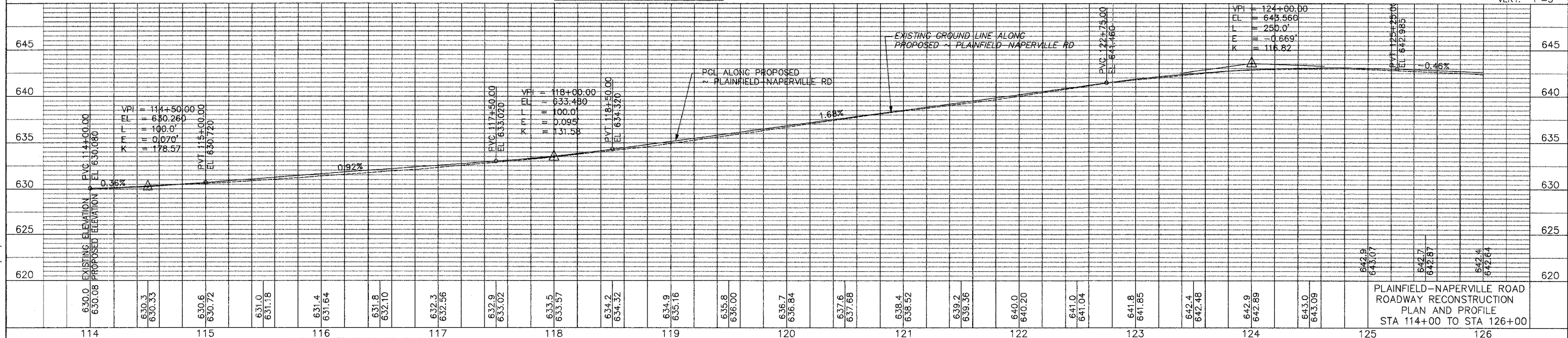
* 98-00036-19-FP

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	44
FEDERAL DIST. NO. 7		ELIMIS	FED. AID PROJECT	

CONTRACT NO. 83896



SCALE: HORIZ: 1"=40'
VERT: 1"=5'



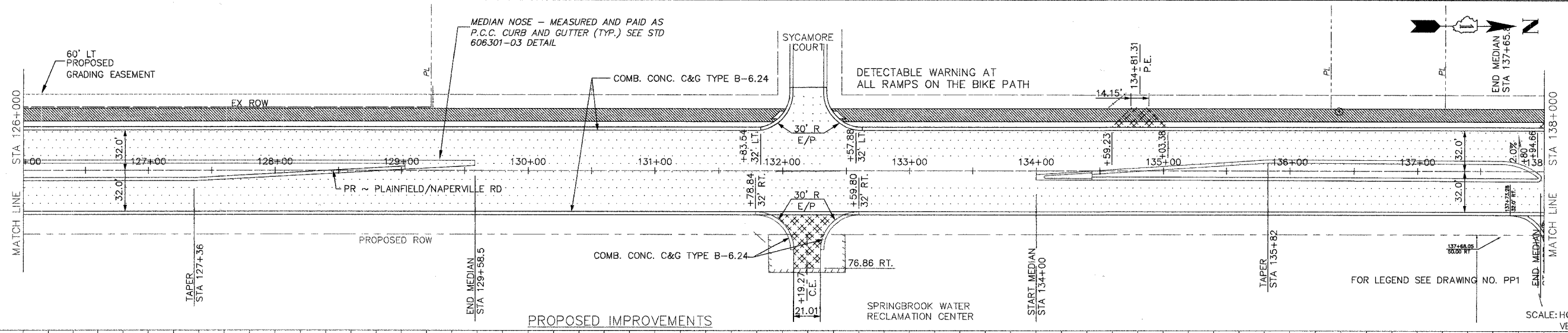
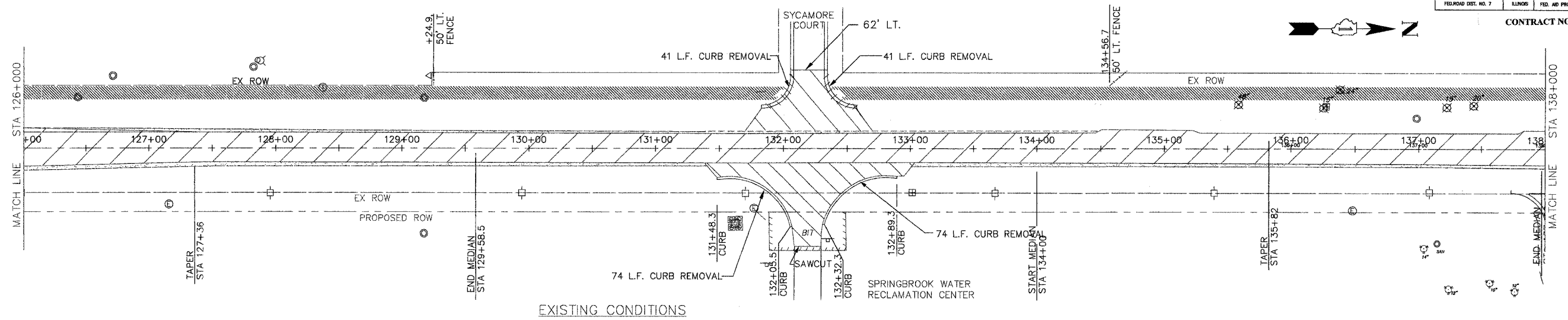
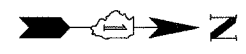
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\PLNPRO5.dwg
PLOT DATE: 07/08/05 - 10:44

PLAINFIELD-NAPERVILLE ROAD
ROADWAY RECONSTRUCTION
PLAN AND PROFILE
STA 114+00 TO STA 126+00

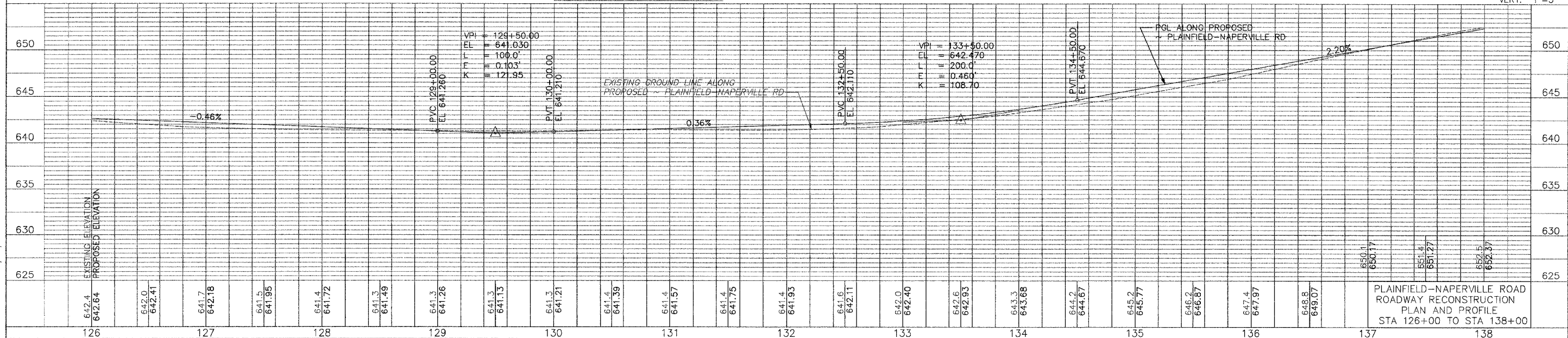
* 98-00036-19-FP

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	45
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 83896



SCALE: HORIZ: 1"=40
VERT: 1"=5'



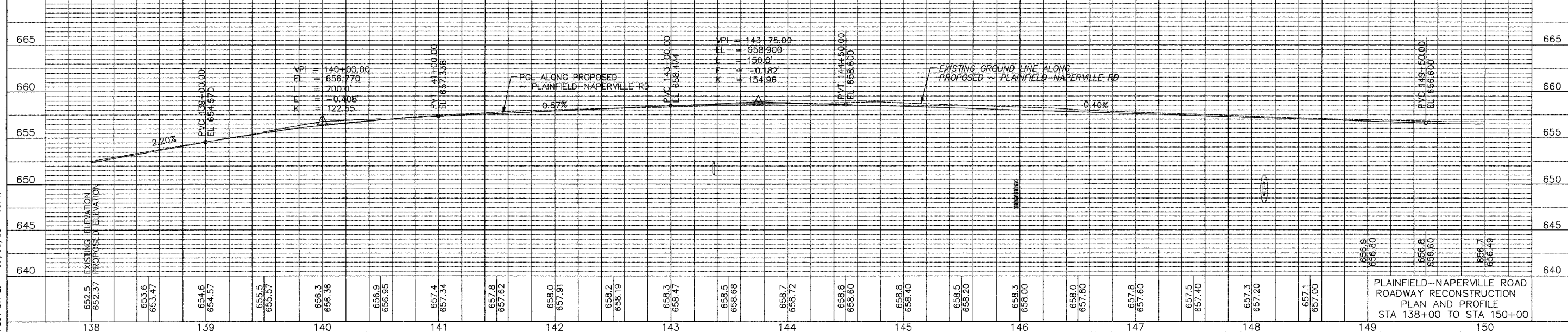
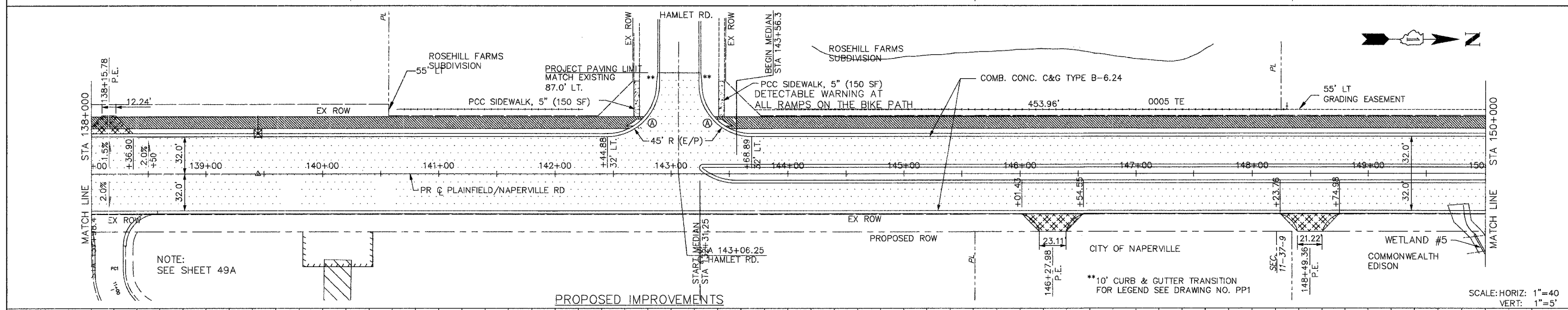
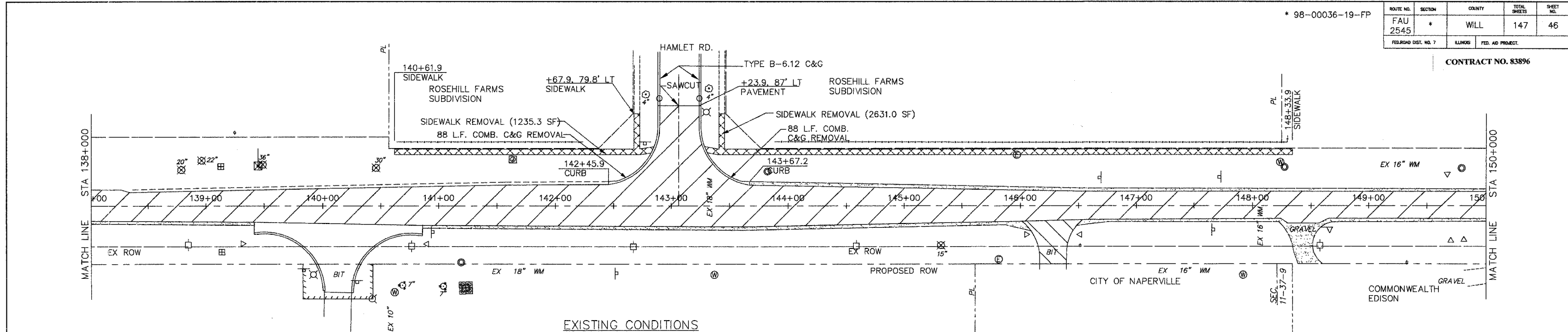
PLAINFIELD-NAPERVILLE ROAD
ROADWAY RECONSTRUCTION
PLAN AND PROFILE
STA 126+00 TO STA 138+00

DRAWING ID: G:\20050023 - Plainfield-Naperville Road\dwg\PLNPR06.dwg
PLOT DATE: 07/08/05 - 10:44

* 98-00036-19-FP

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	46
FEDERAL DIST. NO. 7		ILLINOIS	FED. AID PROJECT:	

CONTRACT NO. 83896



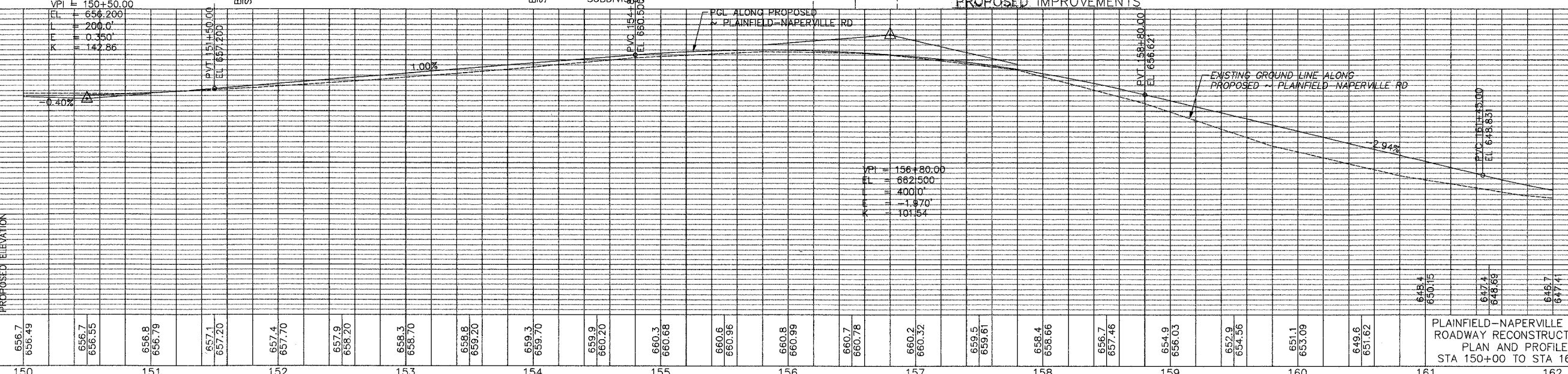
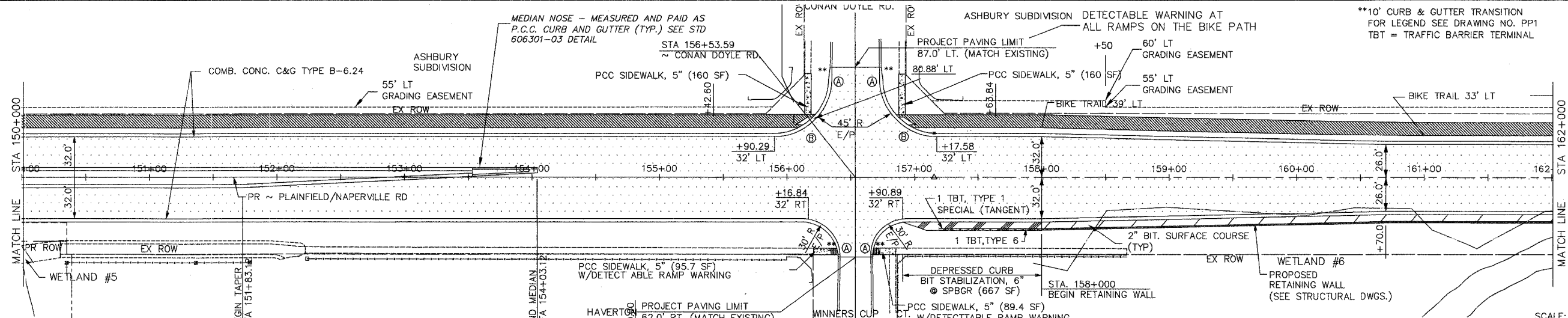
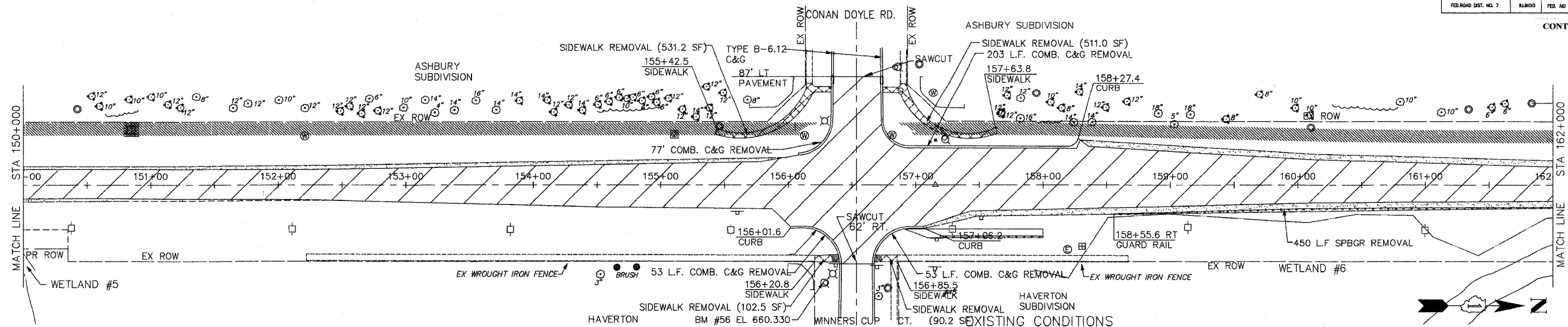
SCALE: HORIZ: 1"=40'
VERT: 1"=5'

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\PLNPR07.dwg
PLOT DATE: 07/05/05 - 10:47

* 98-00036-19-FP

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	47
FED. ROAD DIST. NO. 7		KILOMETS	FED. AID PROJECT	

CONTRACT NO. 83896



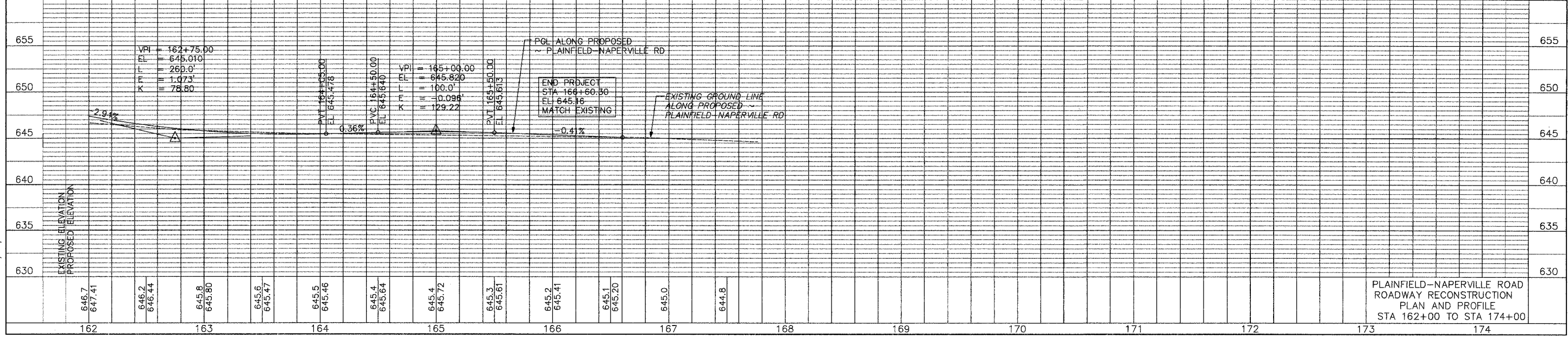
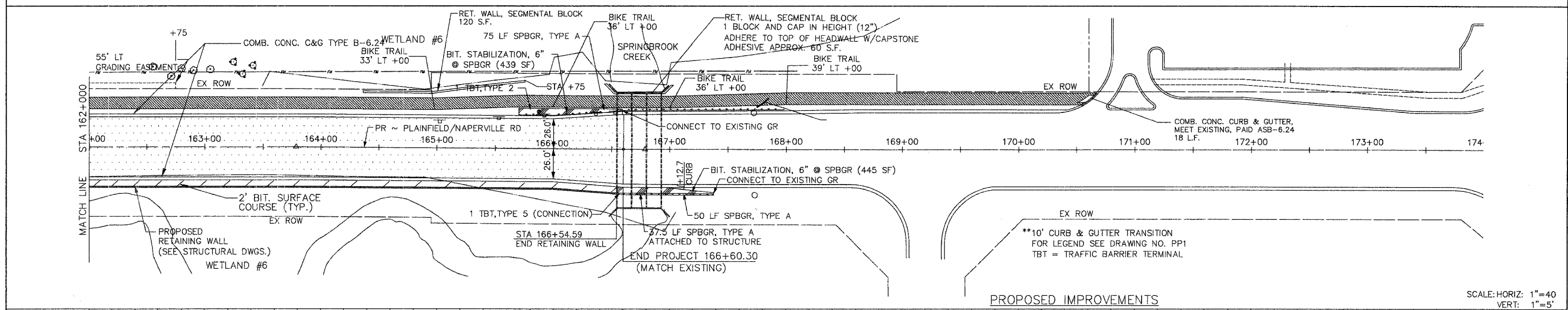
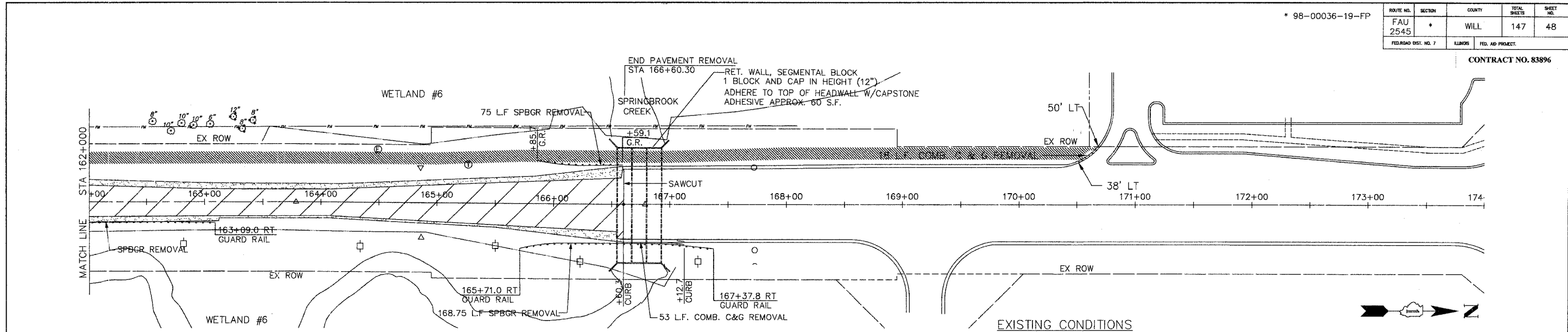
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\PLNPROB.dwg
 PLOT DATE: 07/08/05 - 10:50

PLAINFIELD-NAPERVILLE ROAD
 ROADWAY RECONSTRUCTION
 PLAN AND PROFILE
 STA 150+00 TO STA 162+00

* 98-00036-19-FP

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	48
FED. ROAD DIST. NO. 7		ELIMOS	FED. AID PROJECT:	

CONTRACT NO. 83896

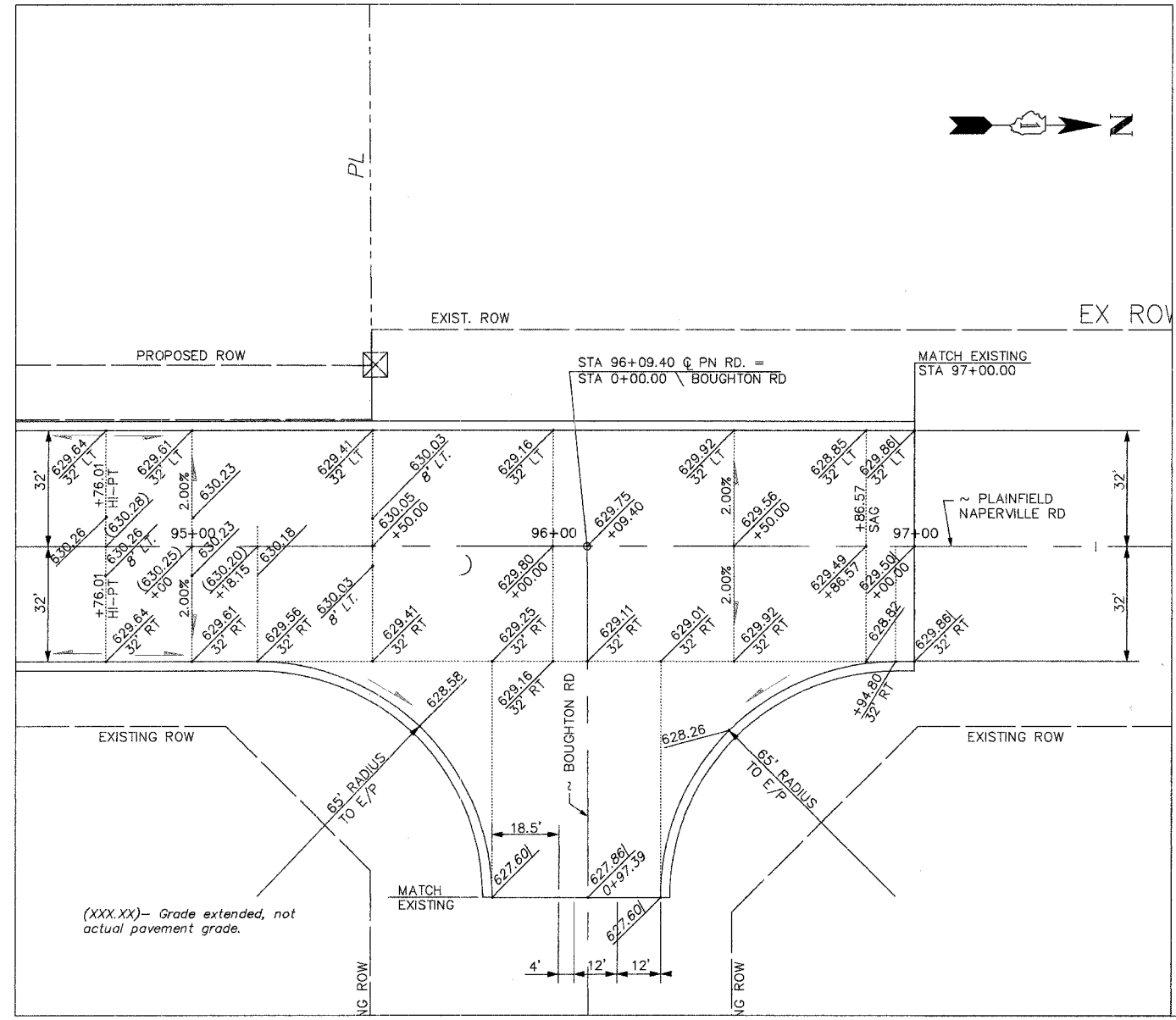


SCALE: HORIZ: 1"=40
VERT: 1"=5'

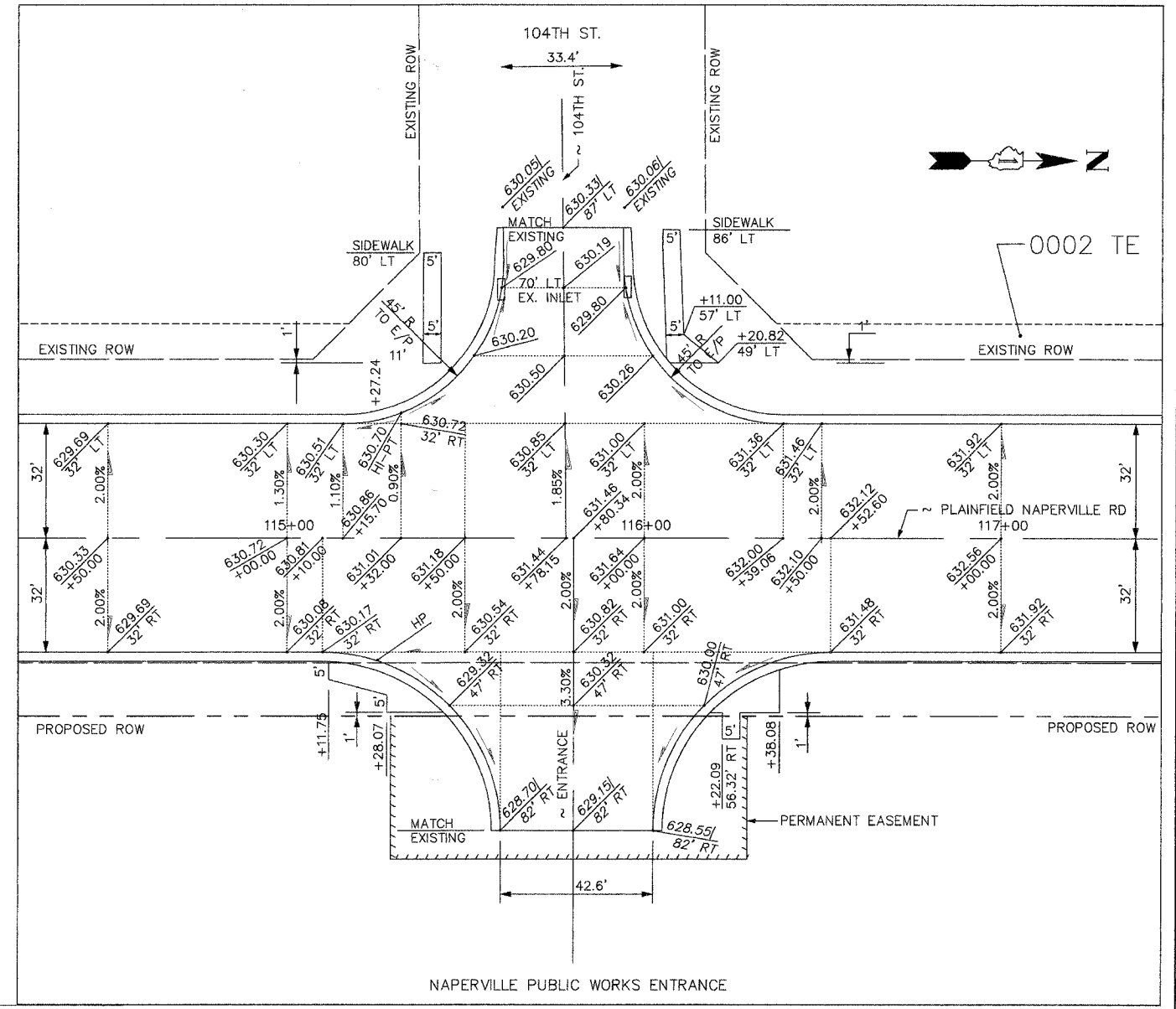
PLAINFIELD-NAPERVILLE ROAD
ROADWAY RECONSTRUCTION
PLAN AND PROFILE
STA 162+00 TO STA 174+00

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\PLNPR09.dwg
PLOT DATE: 07/08/05 - 10:53

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	49
FED. ROAD DIST. NO. 7	ALINDS	FED. AID PROJECT:		
* 98-00036-19-FP			CONTRACT NO. 83896	



BOUGHTON ROAD INTERSECTION



NAPERVILLE PUBLIC WORKS ENTRANCE

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\INT-DET.dwg
PLOT DATE: 07/08/05 - 11:02

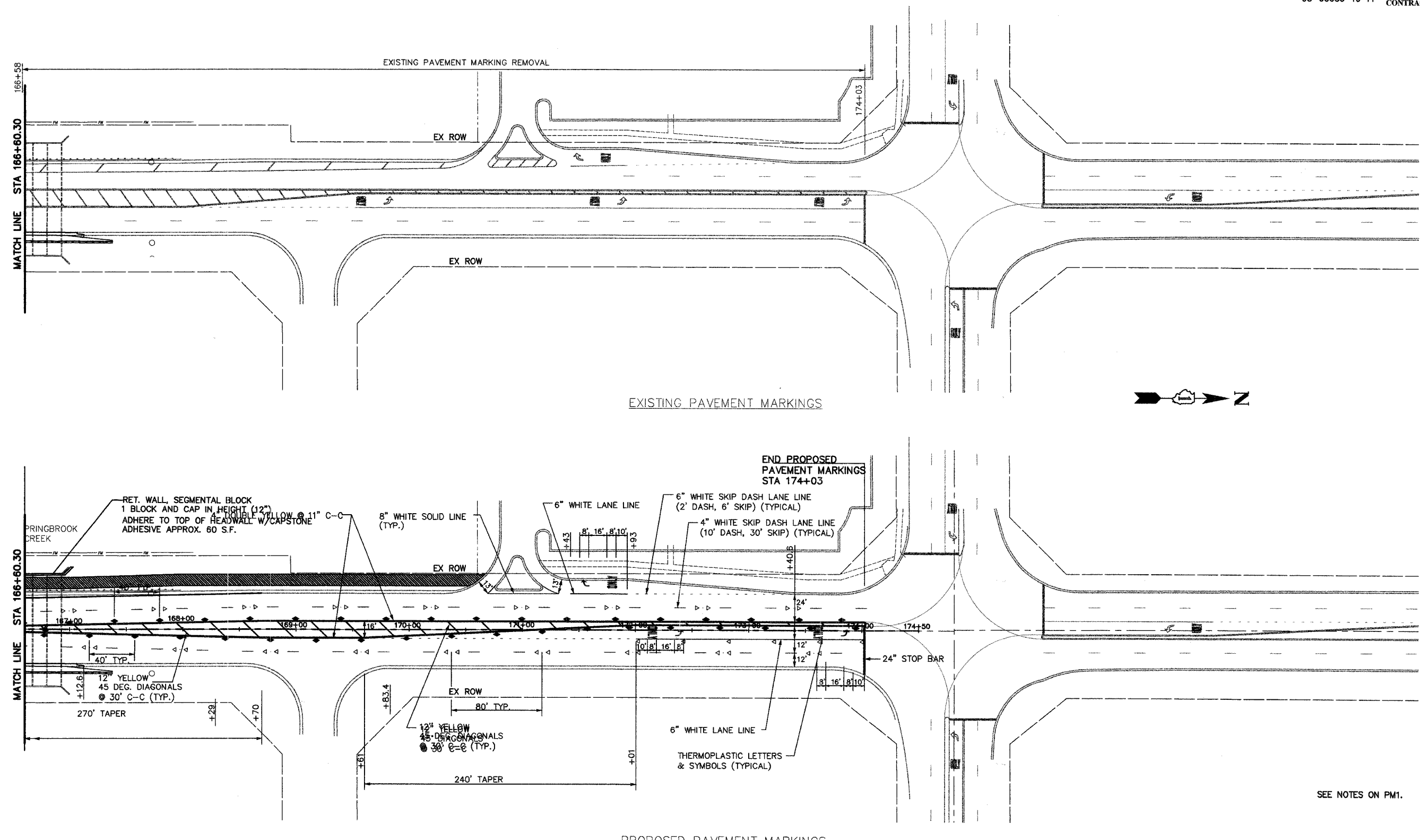
NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION - INTERSECTION DETAILS
BOUGHTON RD - PLAINFIELD NAPERVILLE RD
AND 104TH ST - PLAINFIELD NAPERVILLE RD

	DESIGNED BY: NJL CHECKED BY: NJL DRAWN BY: JTF
	SCALE: 1" = 20'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	79A
FEDERAL AID PROJ. NO. 7		BLIND	FED. AID PROJECT	
* 98-00036-19-FP CONTRACT NO. 83896				



SEE NOTES ON PM1.

P1
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\PM5.dwg
PLOT DATE: 06/06/05 - 11:34

NO.	DATE	REVISION	BY

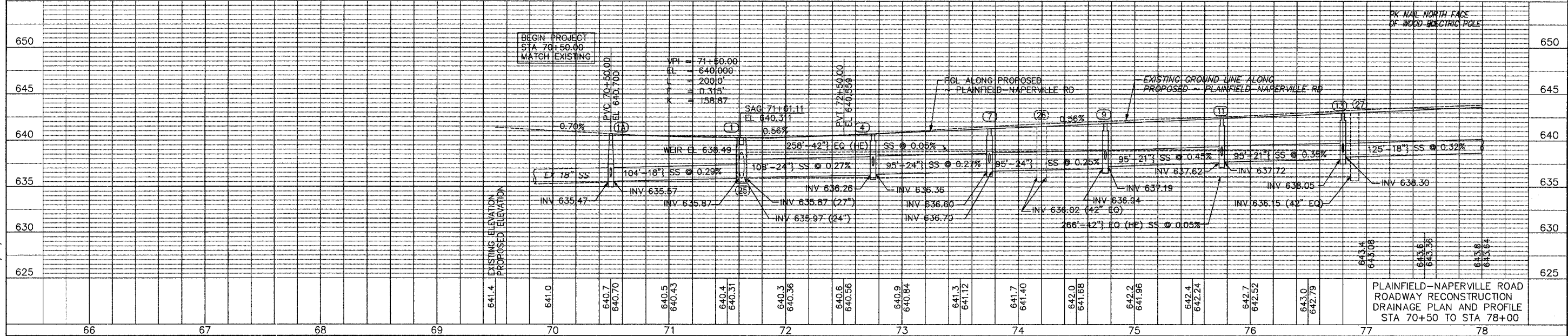
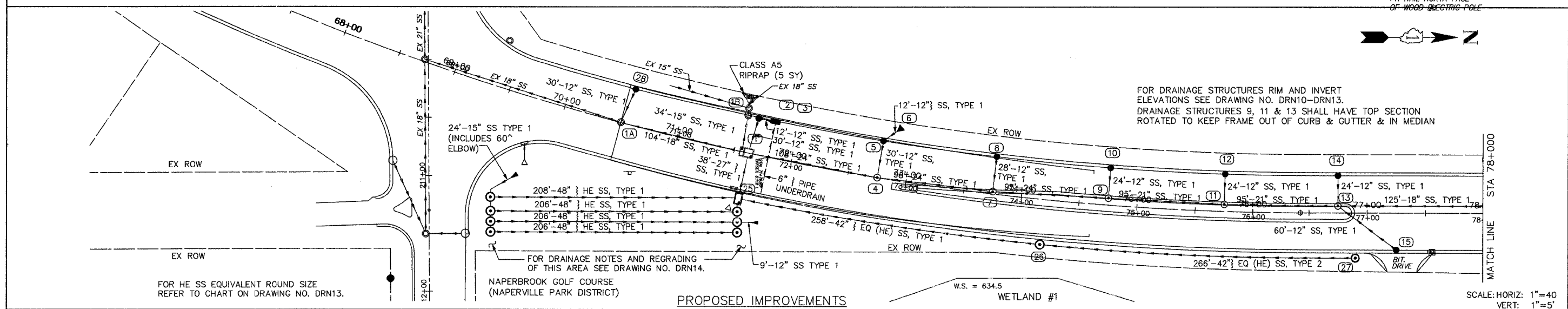
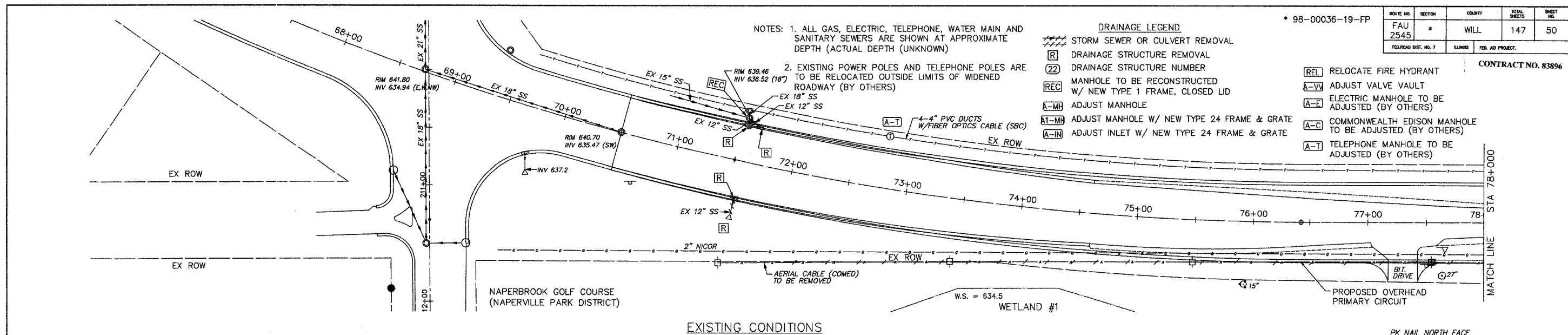
WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 EXISTING AND FINAL PAVEMENT MARKING PLAN
 STA 166+60.30 TO 95TH STREET

McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: JTF
 CHECKED BY: NJL
 DRAWN BY: JTF

SCALE:
 1" = 40'

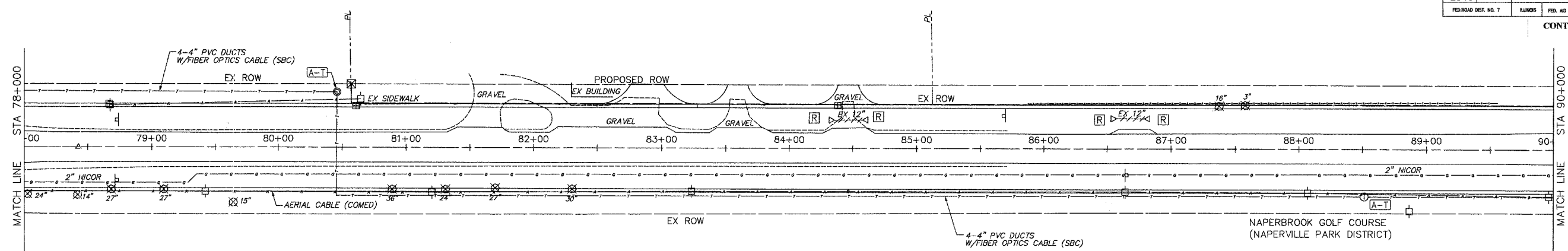
DRAWING ID: C:\20030023 - Plainfield-Naperville Road\dwg\DRN01.dwg
 PLOT DATE: 07/08/05 - 11:04



* 98-00036-19-FP

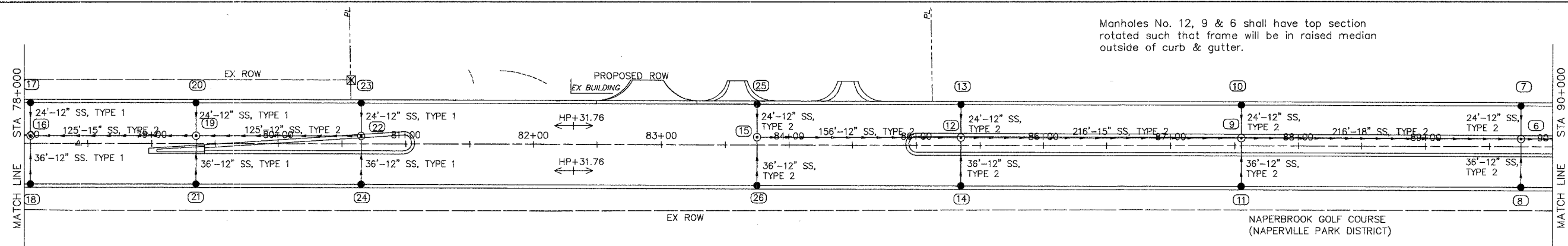
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	51
FED. ROAD DIST. NO. 7		KILGORE FED. AID PROJECT		

CONTRACT NO. 83896



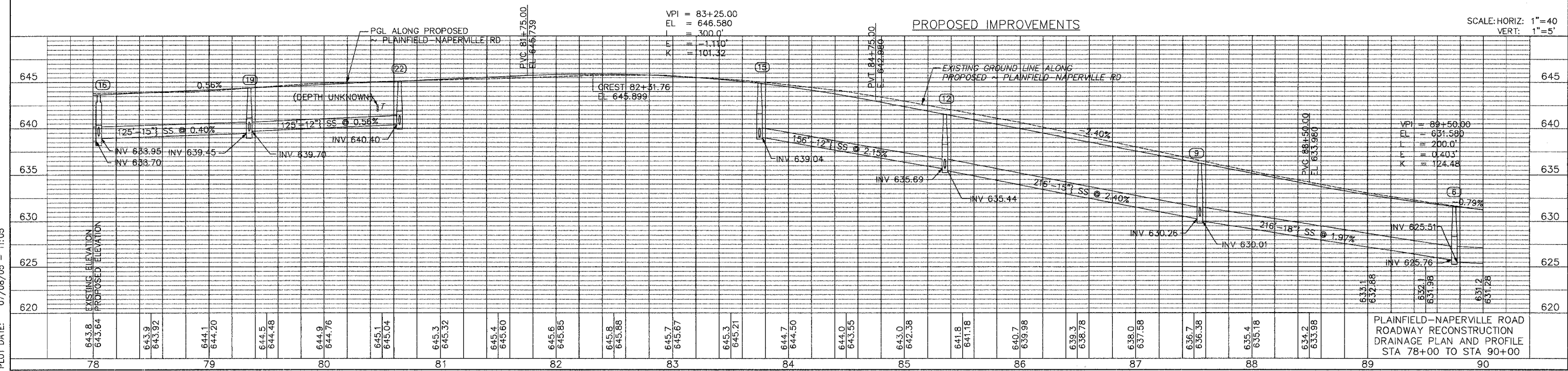
EXISTING CONDITIONS

Manholes No. 12, 9 & 6 shall have top section rotated such that frame will be in raised median outside of curb & gutter.



PROPOSED IMPROVEMENTS

SCALE: HORIZ: 1"=40'
VERT: 1"=5'

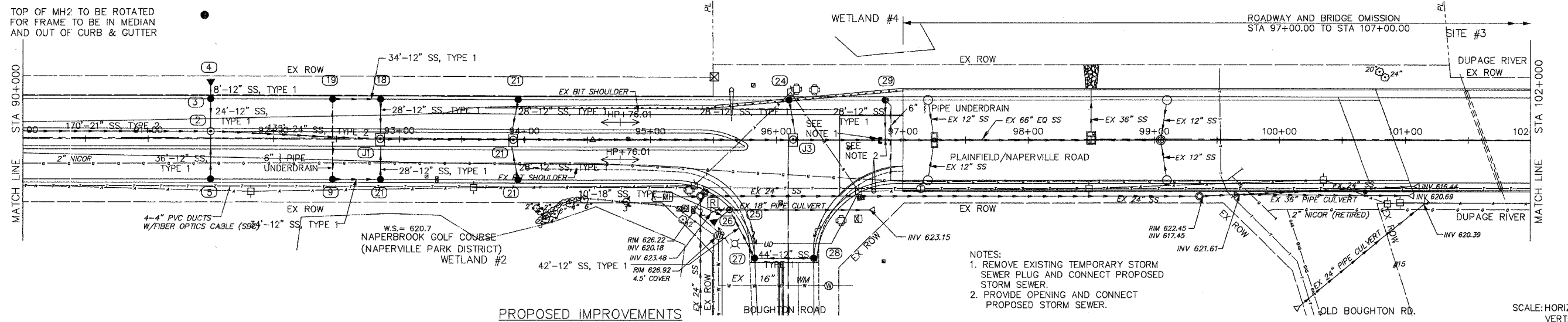
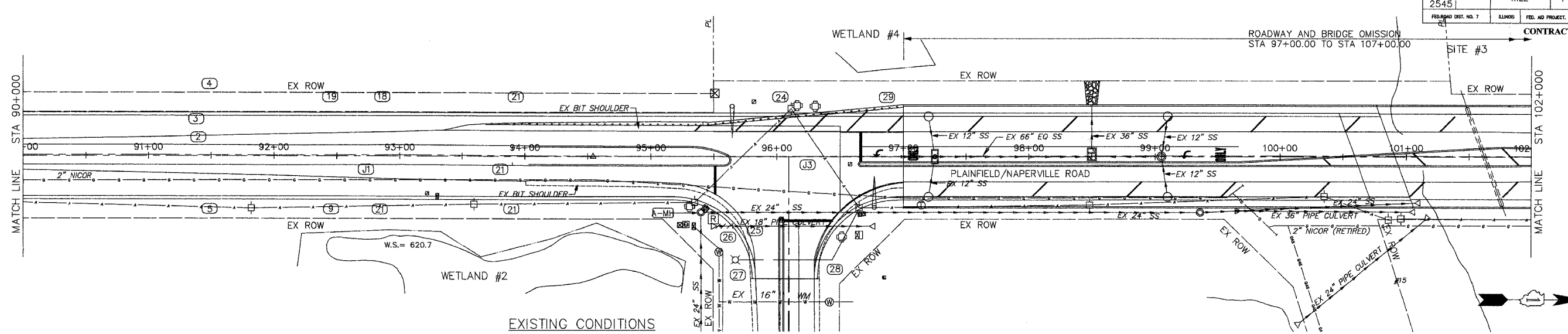


DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\DRN02.dwg
PLOT DATE: 07/08/05 - 11:05

PLAINFIELD-NAPERVILLE ROAD
ROADWAY RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 78+00 TO STA 90+00

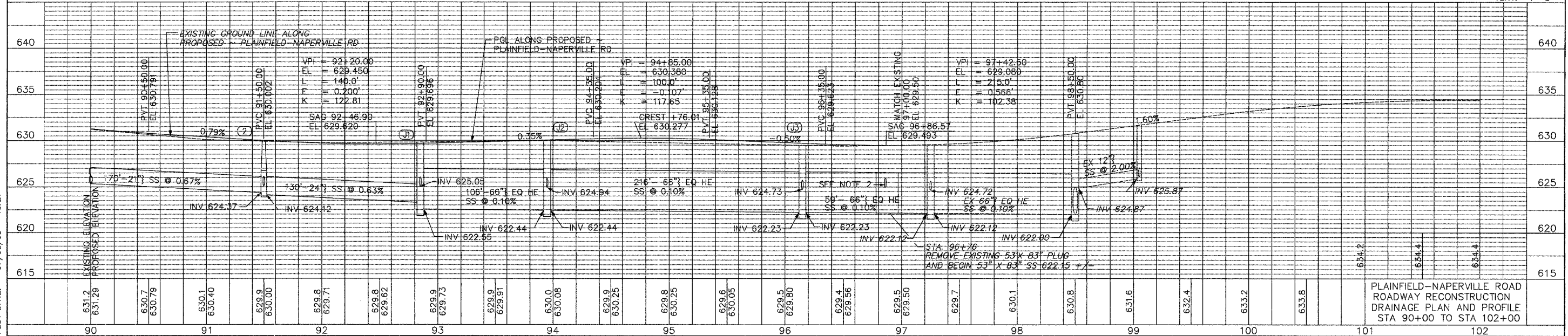
* 98-00036-19-FP

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	52
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 83896	



- NOTES:
1. REMOVE EXISTING TEMPORARY STORM SEWER PLUG AND CONNECT PROPOSED STORM SEWER.
 2. PROVIDE OPENING AND CONNECT PROPOSED STORM SEWER.

SCALE: HORIZ: 1"=40'
VERT: 1"=5'



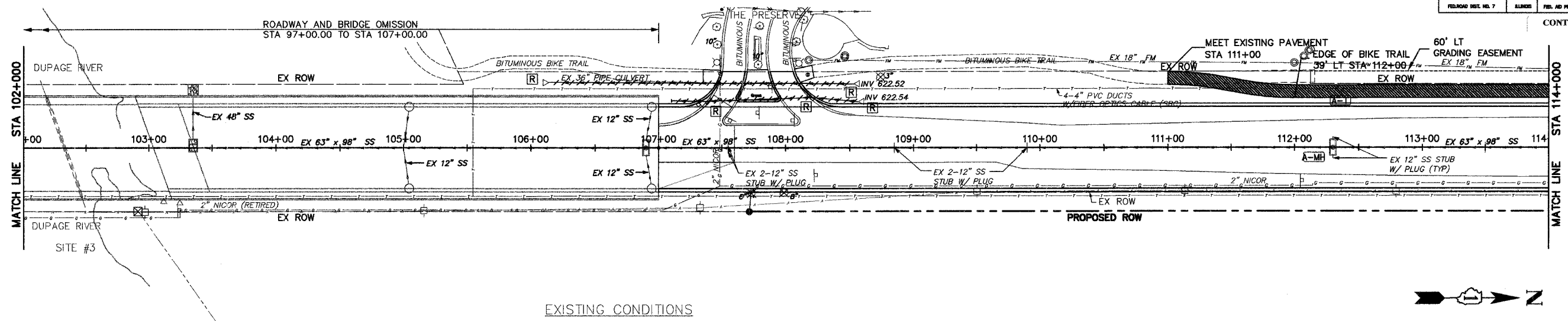
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\DRN03.dwg
PLOT DATE: 07/08/05 - 15:21

PLAINFIELD-NAPERVILLE ROAD
ROADWAY RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 90+00 TO STA 102+00

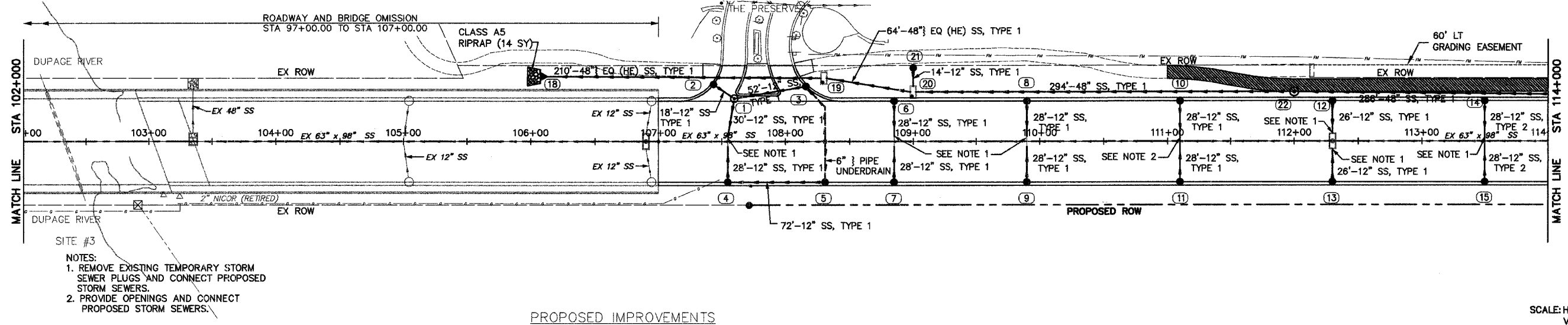
* 98-00036-19-FP

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	53
FEDERAL DIST. NO. 7		BLANKS	FED. AID PROJECT:	

CONTRACT NO. 83896



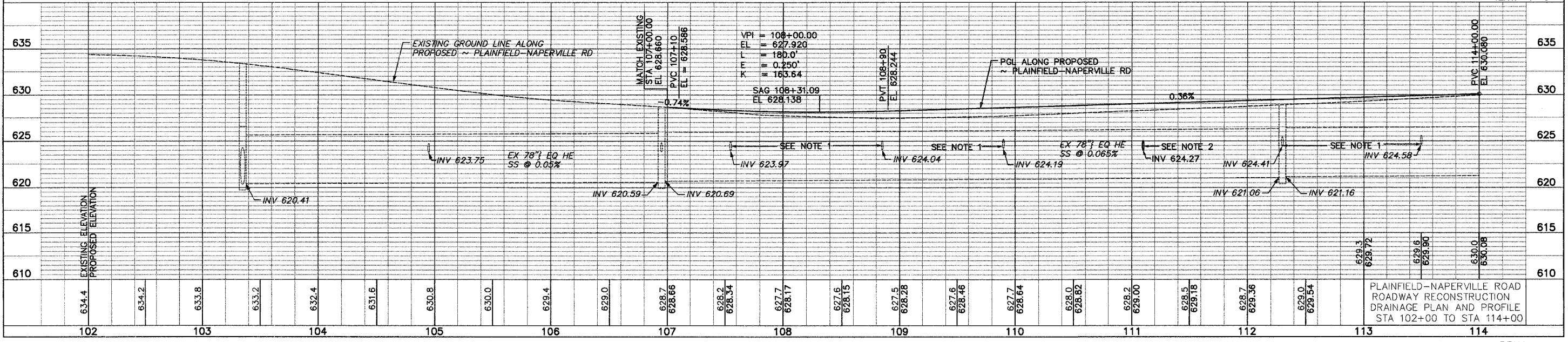
EXISTING CONDITIONS



PROPOSED IMPROVEMENTS

- NOTES:
1. REMOVE EXISTING TEMPORARY STORM SEWER PLUGS AND CONNECT PROPOSED STORM SEWERS.
 2. PROVIDE OPENINGS AND CONNECT PROPOSED STORM SEWERS.

SCALE: HORIZ: 1"=40'
VERT: 1"=5'



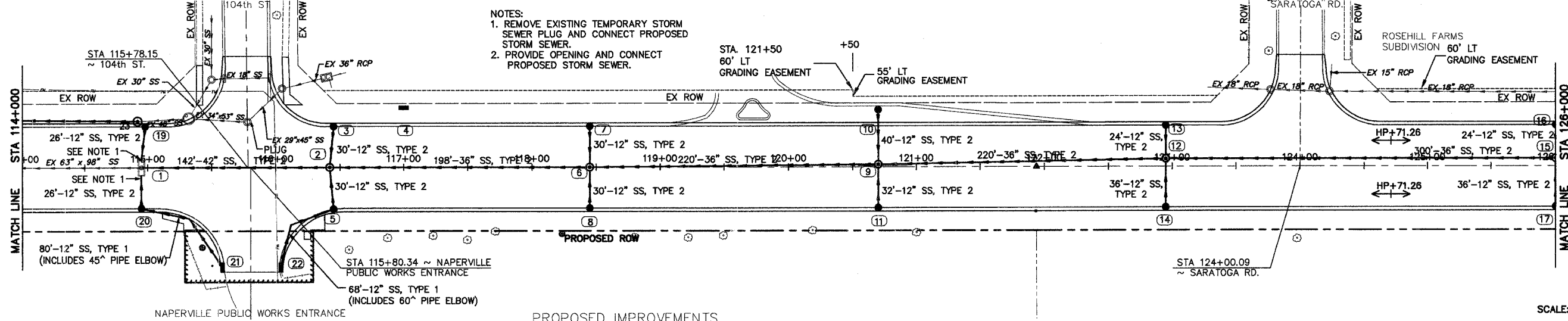
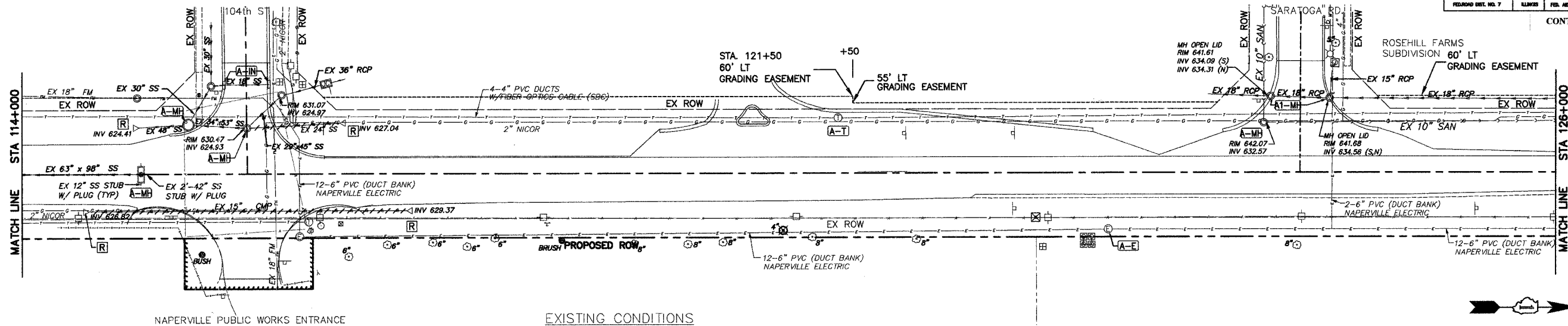
PLAINFIELD-NAPERVILLE ROAD
ROADWAY RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 102+00 TO STA 114+00

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\DRN04.dwg
PLOT DATE: 07/08/05 - 11:09

* 98-00036-19-FP

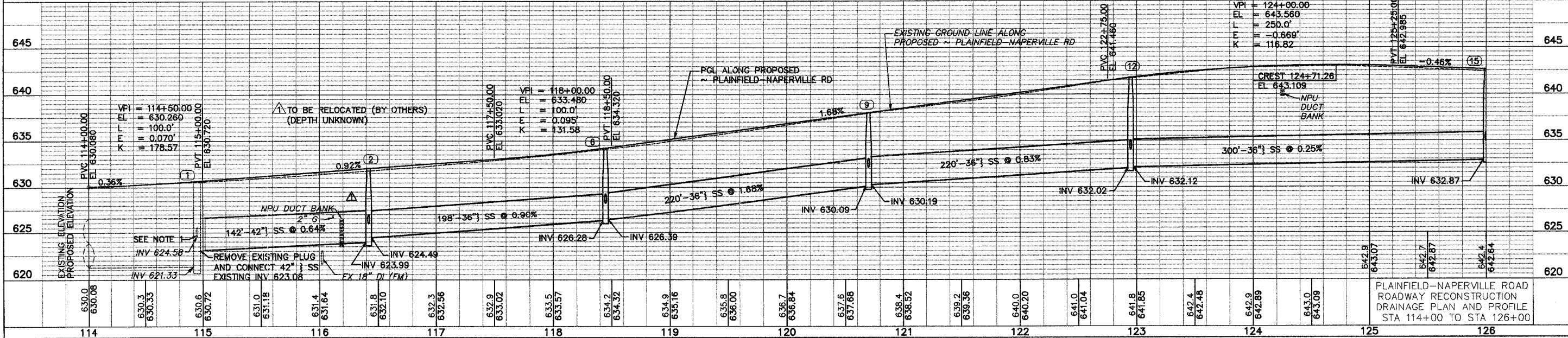
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	54
FEDERAL DIST. NO. 7		STATE	FED. AID PROJECT	

CONTRACT NO. 83896



- NOTES:
 1. REMOVE EXISTING TEMPORARY STORM SEWER PLUG AND CONNECT PROPOSED STORM SEWER.
 2. PROVIDE OPENING AND CONNECT PROPOSED STORM SEWER.

SCALE: HORIZ: 1"=40'
 VERT: 1"=5'



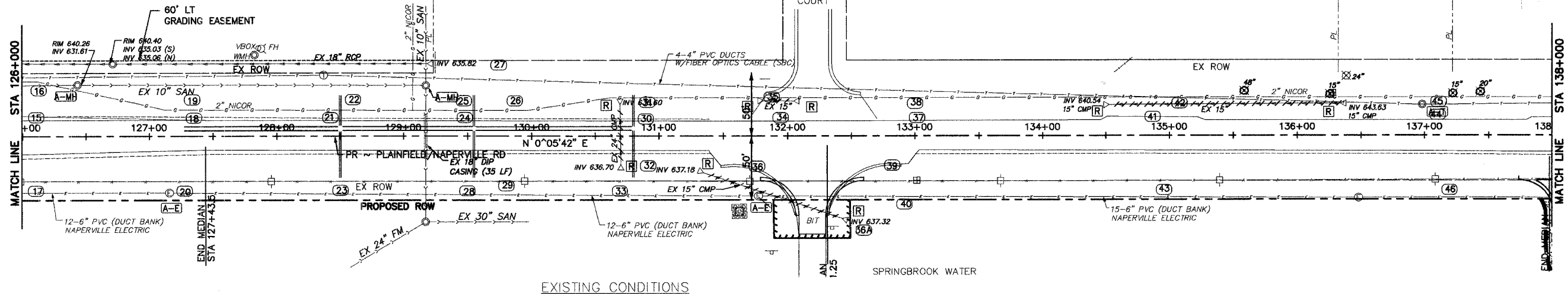
PLAINFIELD-NAPERVILLE ROAD
 ROADWAY RECONSTRUCTION
 DRAINAGE PLAN AND PROFILE
 STA 114+00 TO STA 126+00

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\DRN05.dwg
 PLOT DATE: 07/08/05 - 14:18

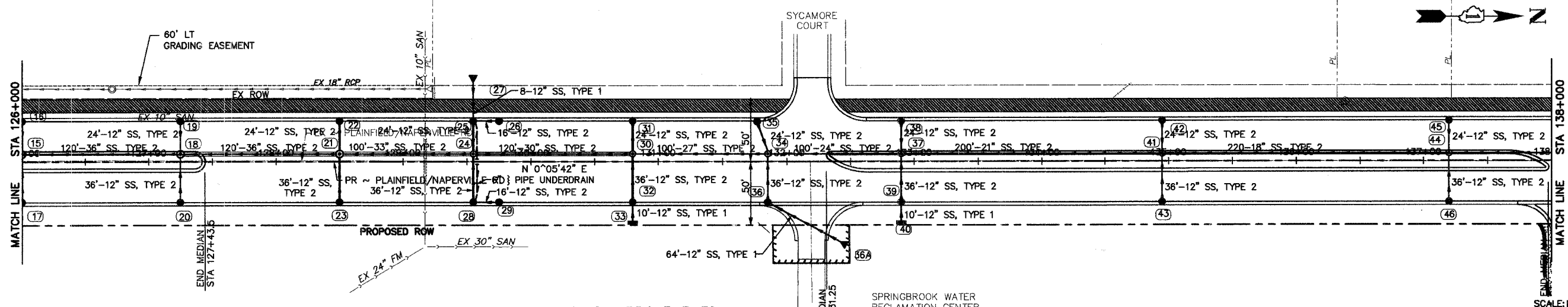
DRN5

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	55
HIGHWAY DIST. NO. 7	BLK/SEG	FILE NO PROJECT		
		CONTRACT NO. 83896		

* 98-00036-19-FP

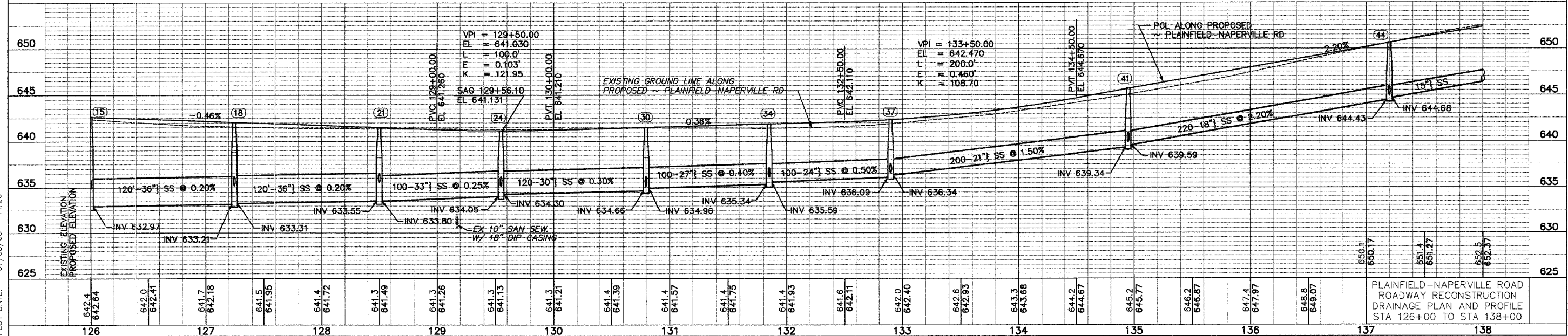


EXISTING CONDITIONS



PROPOSED IMPROVEMENTS

SCALE: HORIZ: 1"=40'
VERT: 1"=5'

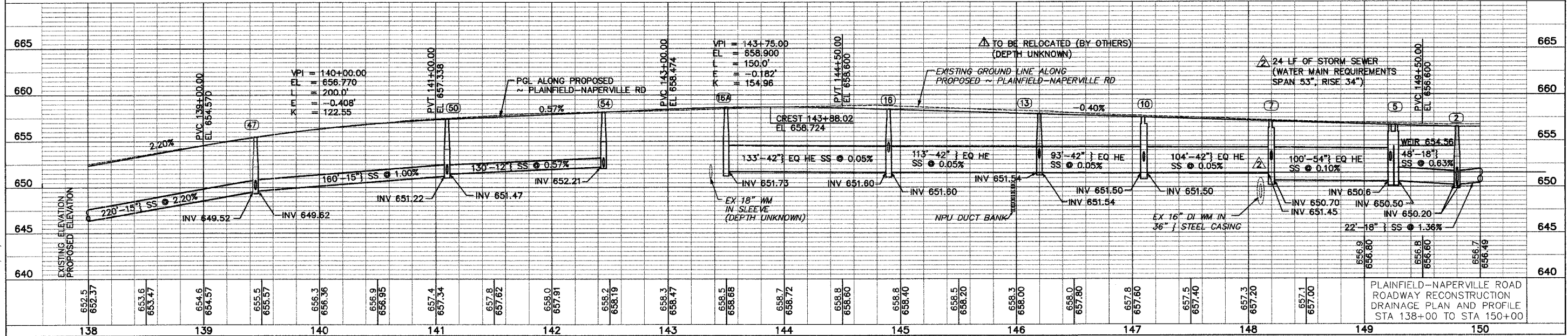
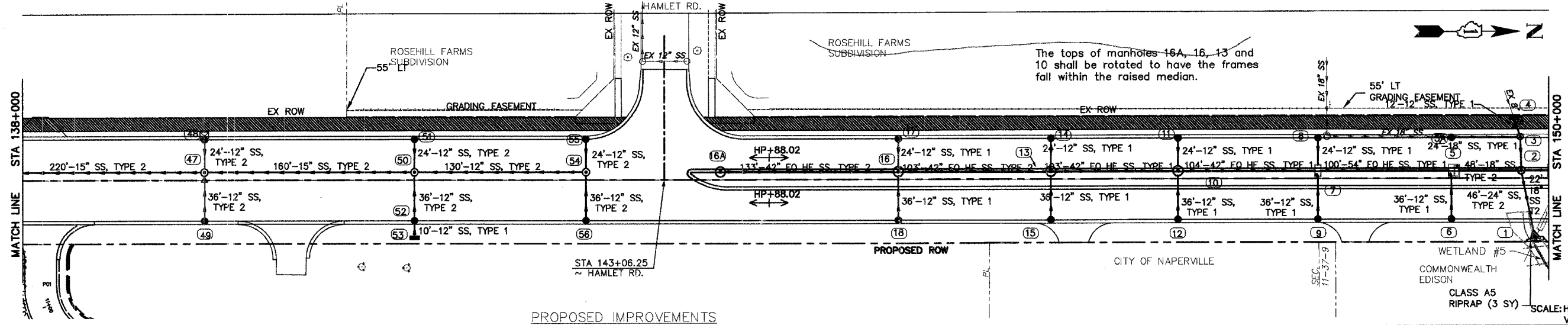
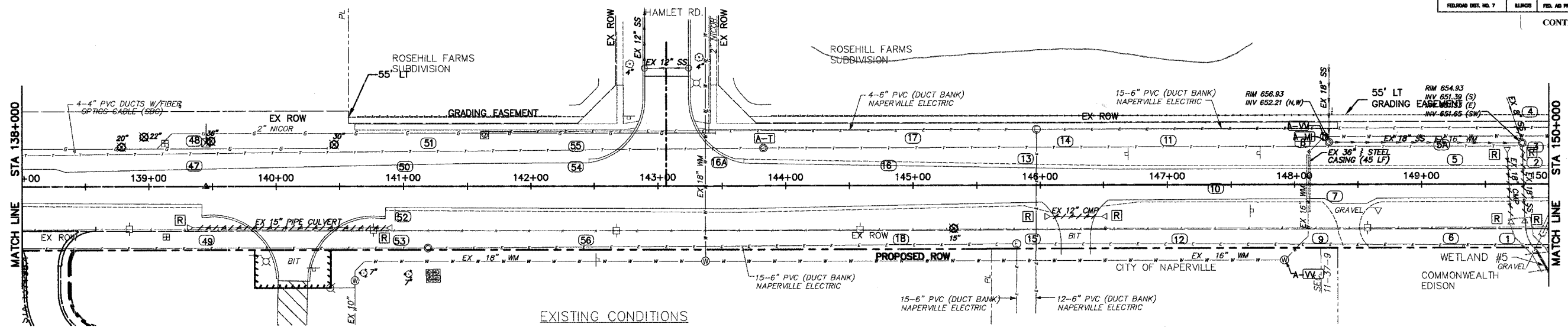


PLAINFIELD-NAPERVILLE ROAD
ROADWAY RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 126+00 TO STA 138+00

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\DRN06.dwg
PLOT DATE: 07/08/05 - 14:20

* 98-00036-19-FP

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	56
FIELD NO. 7	BLANK	FILE NO PROJECT		
CONTRACT NO. 83896				



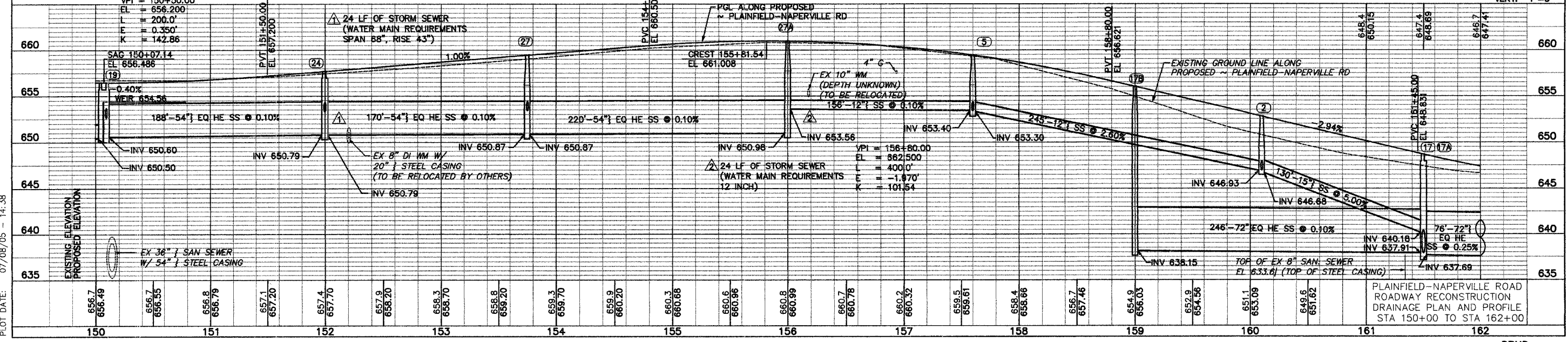
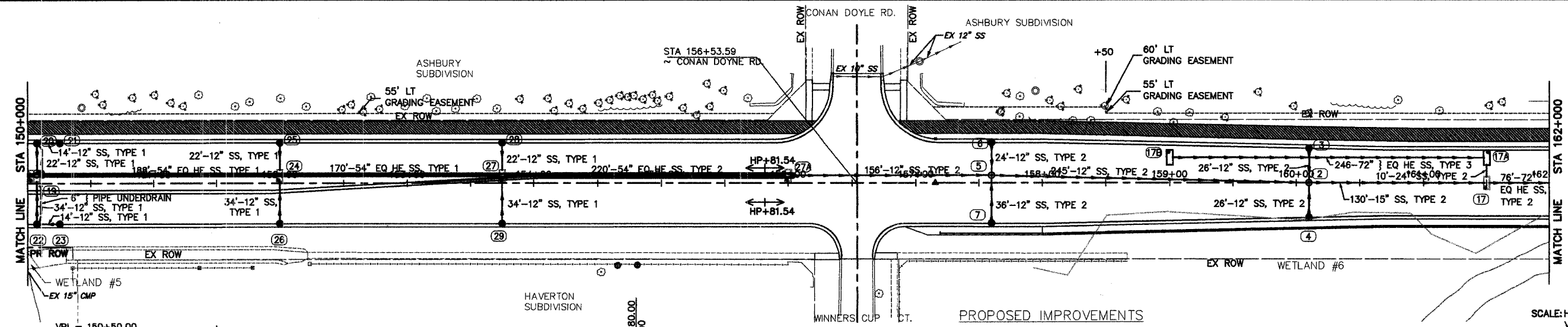
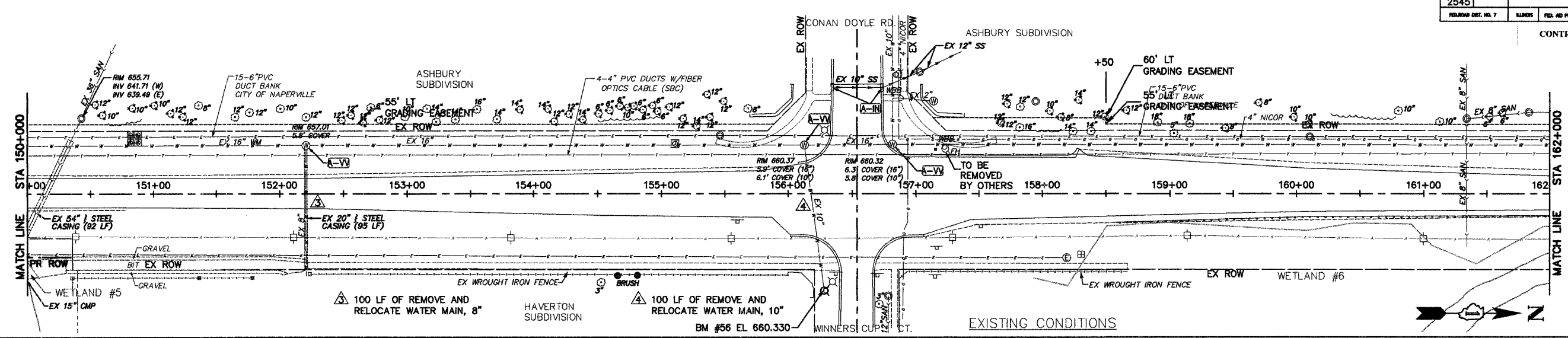
G:\20030023 - Plainfield-Naperville Road\dwg\DRN07.dwg
 PLOT DATE: 07/08/05 - 14:32

PLAINFIELD-NAPERVILLE ROAD
 ROADWAY RECONSTRUCTION
 DRAINAGE PLAN AND PROFILE
 STA 138+00 TO STA 150+00

* 98-00036-19-FP

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAU 2545	*	WILL	147	57
FED. ROAD DIST. NO. 7		BLDG.	FED. AID PROJECT	

CONTRACT NO. 83896



PLAINFIELD-NAPERVILLE ROAD
ROADWAY RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 150+00 TO STA 162+00

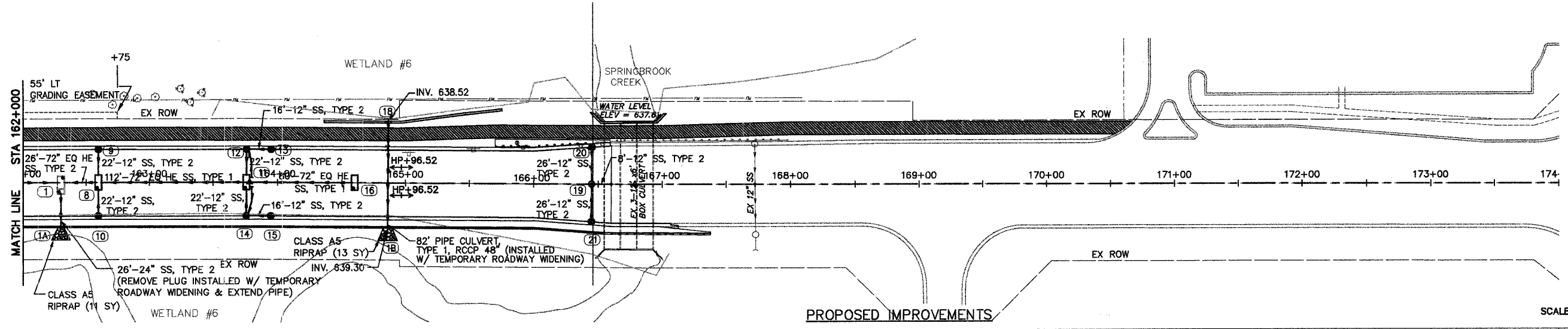
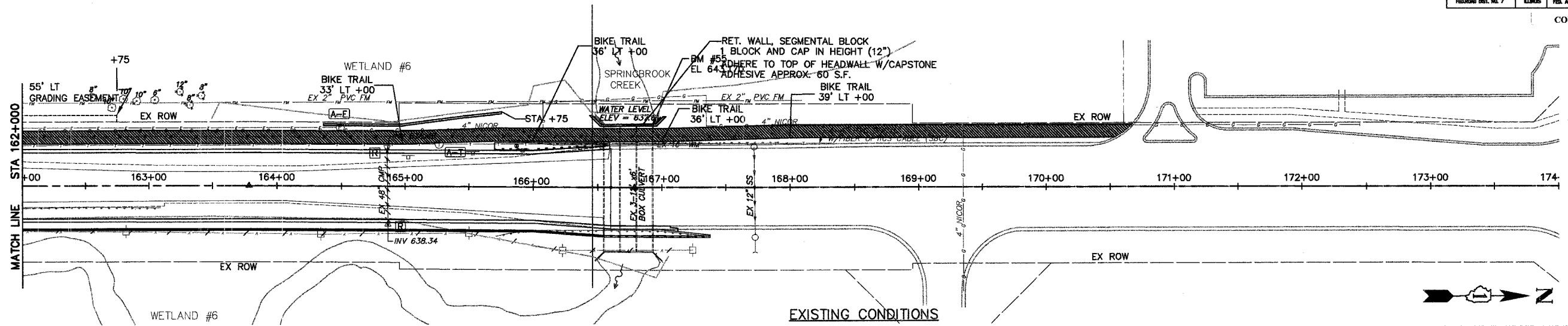
SCALE: HORIZ: 1"=40'
VERT: 1"=5'

DRAWING ID: G:\20030023 - Plainfield-Naperville Road.dwg (DRN08.dwg)
PLOT DATE: 07/08/05 - 14:38

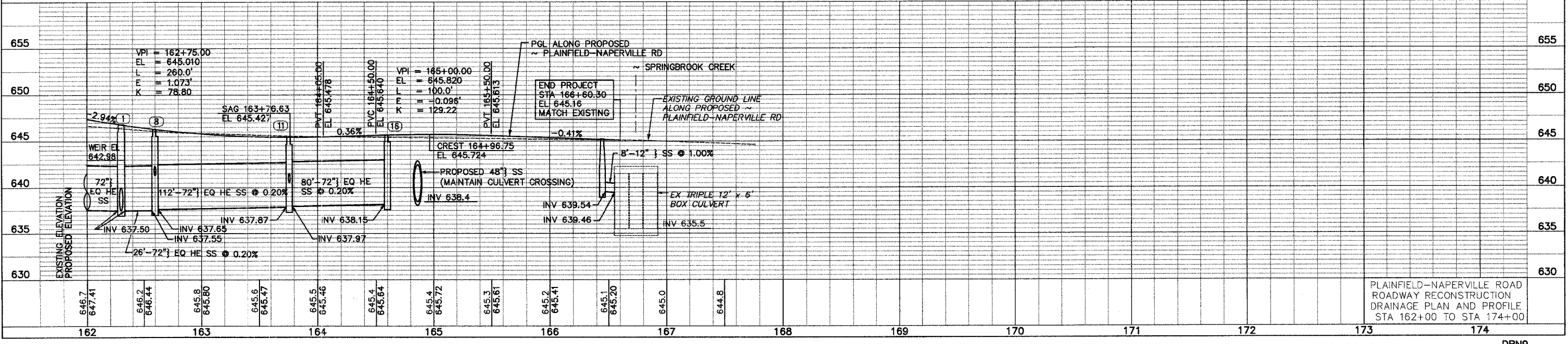
* 98-00036-19-FP

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	58
FEDERATION DIST. NO. 7		BLK/CD	FED. AID PROJECT	

CONTRACT NO. 83896



SCALE: HORIZ: 1"=40
VERT: 1"=5'



PLAINFIELD-NAPERVILLE ROAD
ROADWAY RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 162+00 TO STA 174+00

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\DRN09.dwg
PLOT DATE: 07/08/05 - 14:47

DRN9

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
254598	00036-19-FP	WILL	---	59
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83896

DRAWING NO. DRN1
STA 70+50 TO STA 78+00 (SOUTH REACH)

- 1A (EX) STA 70+50, CL CONNECT TO EX MANHOLE
RIM EL 640.70
INV EL 635.57 (18" N)
INV EL 636.07 (12" W)
INV EL 635.47 (EX 18" S)
- 28 STA 70+55, 31' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 639.86
INV EL 636.40 (12" E)
- 1B (EX) STA 71+54.7, 37.9' LT RECONSTRUCT EX MANHOLE
W/NEW TYPE 1 FRAME, CLOSED LID
RIM EL 639.58
INV EL 636.78 (EX 15" SW)
INV EL 636.52 (EX 18" W)
INV EL 636.70 (15" E)
- 1 STA 71+62, CL JUNCTION CHAMBER, SPECIAL
W/ 2 TYPE 1 FRAMES, CLOSED LIDS
RIM EL A 640.28
RIM EL B 640.36
INV EL 635.87 (27" E)
INV EL 635.97 (24" N)
INV EL 636.97 (15" W)
INV EL 635.87 (18" S)
INV EL 636.74 (12" W)
- 2 STA 71+65, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 639.46
INV EL 636.89 (12" E)
INV EL 636.99 (12" N)
- 3 STA 71+80, 32' LT INLET, TYPE A
W/ TYPE 24 FRAME & GRATE
RIM EL 639.47
INV EL 637.05 (12" S)
- 25 STA 71+62, 39' RT JUNCTION CHAMBER,
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 641.62
INV EL 635.89 (42" EQ HE N)
INV EL 635.89 (27" W)
- 4 STA 72+75, CL MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID & WITH FLAT SLAB TOP
RIM EL 640.70
INV EL 636.46 (12" W)
INV EL 636.36 (24" N)
INV EL 636.26 (24" S)
- 5 STA 72+75, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 639.85
INV EL 636.71 (12" W)
INV EL 636.61 (12" E)
- 6 STA 72+86, 42' LT PRC FLARED END SECTION, 12'
INV EL 637.50
- 7 STA 73+75, 2' LT MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID & WITH FLAT SLAB TOP
RIM EL 641.21
INV EL 637.10 (12" W)
INV EL 636.70 (24" N)
INV EL 636.60 (24" S)

DRAWING NO. DRN2
STA 78+00 TO STA 82+31.82 (SOUTH REACH)

- 8 STA 73+75, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 640.41
INV EL 637.27 (12" E)
- 26 STA 74+20, 39' RT MANHOLE, TYPE A, 7' DIA.
W/ TYPE 1 FRAME, CLOSED LID & WITH FLAT SLAB TOP
RIM EL 642.82
INV EL 636.02 (42" EQ HE N)
- 9 STA 74+75, 5' LT MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID & WITH FLAT SLAB TOP
RIM EL 642.15
INV EL 637.47 (12" W)
INV EL 637.19 (21" N)
INV EL 636.94 (24" S)
- 10 STA 74+75, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 640.97
INV EL 637.59 (12" E)
- 11 STA 75+75, 5' LT MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID & WITH FLAT SLAB TOP
RIM EL 642.75
INV EL 638.12 (12" W)
INV EL 637.72 (21" N)
INV EL 637.62 (21" S)
- 12 STA 75+75, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 641.71
INV EL 638.36 (12" E)
- 13 STA 76+75, 5' LT MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID & WITH FLAT SLAB TOP
RIM EL 643.32
INV EL 638.55 (12" W)
INV EL 638.30 (18" N)
INV EL 638.05 (21" S)
INV EL 638.80 (12" NE)
- 14 STA 76+75, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 642.30
INV EL 638.80 (12" E)
- 27 STA 76+90, 39' RT MANHOLE, TYPE A, 7' DIA.
W/ TYPE 1 FRAME, CLOSED LID & WITH FLAT SLAB TOP
RIM EL 643.58
INV EL 636.15 (42" EQ HE S)
- 15 STA 77+25, 32' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 643.14
INV EL 639.10 (12" SW)

DRAWING NO. DRN2 (CONTINUATION)
STA 82+31.82 TO STA 90+00 (REACH 1)

- 16 STA 78+05, 6' LT MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID & WITH FLAT SLAB TOP
RIM EL 643.55
INV EL 638.85 (12" W,E)
INV EL 638.95 (15" N)
INV EL 638.70 (18" S)
- 17 STA 78+05, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 643.03
INV EL 639.09 (12" E)
- 18 STA 78+05, 32' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 643.19
INV EL 639.21 (12" W)
- 19 STA 79+35, 6' LT MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID & WITH FLAT SLAB TOP
RIM EL 644.27
INV EL 639.70 (12" W,E)
INV EL 639.70 (12" N)
INV EL 639.45 (15" S)
- 20 STA 79+35, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 643.75
INV EL 640.06 (12" E)
- 21 STA 79+35, 32' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 643.75
INV EL 640.06 (12" W)
- 22 STA 80+65, 6' LT MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID & WITH FLAT SLAB TOP
RIM EL 645.00
INV EL 640.40 (12" E,W,S)
- 23 STA 80+65, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 644.80
INV EL 640.76 (12" E)
- 24 STA 80+65, 32' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 644.80
INV EL 640.76 (12" W)

DRAWING NO. DRN3 (CONTINUATION)
STA 90+00 TO STA 102+00 (REACH 1)

- 15 STA 83+75, 6' LT MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 644.72
INV EL 639.04 (12" E)
INV EL 639.04 (12" W)
INV EL 639.04 (12" N)
- 25 STA 83+75, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 644.20
INV EL 639.45 (12" E)
- 26 STA 83+75, 32' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 644.20
INV EL 639.45 (12" W)
- 12 STA 85+35, 5' LT MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 641.92
INV EL 635.69 (12" S)
INV EL 635.69 (12" E,W)
INV EL 635.44 (15" N)
- 13 STA 85+35, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 640.90
INV EL 636.15 (12" E)
- 14 STA 85+35, 32' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 640.90
INV EL 636.15 (12" W)
- 9 STA 87+55, 5' LT MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 636.64
INV EL 630.26 (15" S)
INV EL 630.51 (12" E,W)
INV EL 630.01 (18" N)
- 10 STA 87+55, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 635.62
INV EL 630.87 (12" E)
- 11 STA 87+55, 32' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 635.62
INV EL 630.87 (12" W)
- 6 STA 89+75, 5' LT MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 631.99
INV EL 625.76 (18" S)
INV EL 626.26 (12" E,W)
INV EL 625.51 (21" N)
- 7 STA 89+75, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 630.97
INV EL 626.44 (12" E)
- 8 STA 89+75, 32' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 630.97
INV EL 626.44 (12" W)

DRAWING NO. DRN3
STA 90+00 TO STA 102+00 (REACH 1)

- 2 STA 91+50, 5' LT MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
WITH FLAT SLAB TOP
RIM EL 630.37
INV EL 624.37 (12" W,E)
INV EL 624.37 (21" S)
INV EL 624.12 (24" N)
- 3 STA 91+50, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 629.35
INV EL 625.11 (12" W)
INV EL 624.61 (12" E)
- 4 STA 91+50, 42' LT PRC FLARED END SECTION, 12'
INV EL 626.00
- 5 STA 91+50, 32' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 629.35
INV EL 624.80 (12" W)
- 19 STA 92+47, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 628.98
INV EL 625.46 (12" N)
- J1 STA 92+85, CL JUNCTION CHAMBER NO.2
EXISTING JUNCTION CHAMBER NO.2
TYPE 1 FRAME, CLOSED LID
RIM EL 629.60
INV EL 625.05 (12" E,W)
INV EL 623.30 (24" S)
INV EL 622.55 (66" EQ HE) N
- 18 STA 92+85, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 629.04
INV EL 625.29 (12" S)
INV EL 625.19 (12" E)
- 20 STA 92+85, 32' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 629.04
INV EL 625.19 (12" W)
INV EL 625.29 (12" S)
- J2 STA 93+95, CL JUNCTION CHAMBER
TYPE 1 FRAME, CLOSED LID
PROPOSED RIM EL 629.98
INV EL 624.94 (12" E,W)
INV EL 622.44 (66" EQ HE) N,S
- 21 STA 92+47, 32' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 628.98
INV EL 625.46 (12" N)

- 22 STA 93+95, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 629.42
INV EL 625.22 (12" E)
- 23 STA 93+95, 32' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 629.42
INV EL 625.22 (12" W)
- 25 STA 95+63, 55.4' RT MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 629.00
INV EL 623.45 (18" SE)
INV EL 623.55 (12" NE)
INV EL 623.41 (EX 18" N)
CONSTRUCT MANHOLE OVER EXISTING 18" DIA PIPE CULVERT
- 26 STA 95+53.5, 63' RT PRC FLARED END SECTION, 18'
INV EL 623.48
- 24 STA 96+10, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 629.11
INV EL 625.04 (12" E)
- J3 STA 96+15, CL JUNCTION CHAMBER NO.2
EXISTING JUNCTION CHAMBER NO.2
TYPE 1 FRAME, CLOSED LID
RIM EL 629.60
INV EL 624.73 (12" E,W)
INV EL 622.23 (66" EQ HE) N,S

- 29 STA 96+85.9, 32' LT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 628.84
INV EL 625.00 (12" E)
- 27 STA 95+83.1, 94' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 627.60
INV EL 623.76 (12" W)
INV EL 623.86 (12" N)
- 28 STA 96+29.9, 94' RT CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE & WITH FLAT SLAB TOP
RIM EL 627.60
INV EL 624.08 (12" S)

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
DRAINAGE NOTES

SCALE:
N.T.S.

DESIGNED BY: N.J.L.
CHECKED BY: N.J.L.
DRAWN BY: J.T.F.

McDonough Associates Inc.
Engineers/Architects

F.A. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
254598-00036-19-FR	WILL	147	60
STA. TO STA.		ILLINOIS FED. AID PROJECT	

CONTRACT NO. 83896

DRAWING NO. DRN4
STA 102+00 TO STA 114+00 (REACH 2)

- 2 STA 107+44, 45' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 627.45
INV EL 624.40 (12' NE)
- 4 STA 107+55, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 627.68
INV EL 624.11 (12' W)
INV EL 624.21 (12' N)
- 1 STA 107+60, 34' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
WITH FLAT SLAB TOP
RIM EL 627.62
INV EL 624.22 (12' N)
INV EL 624.22 (12' S)
INV EL 624.12 (12' E)
- 3 STA 108+16, 43.4' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 627.30
INV EL 624.38 (12' S)
- 5 STA 108+31, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 627.49
INV EL 624.57 (12' S)
- 19 STA 108+30, 50' LT
JUNCTION CHAMBER
TYPE 1 FRAME, CLOSED LID
RIM EL 628.00
INV EL 621.65 (48' EQ HE S)
INV EL 621.65 (48' EQ HE N)
- 6 STA 108+85, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 627.59
INV EL 624.32 (12' E)
- 7 STA 108+85, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 627.59
INV EL 624.32 (12' W)
- 21 STA 109+00, 58' LT
CATCH BASIN, TYPE C
WITH TYPE 8 GRATE
RIM EL 625.20
INV EL 623.12 (12' E)
- 20 STA 109+00, 39' LT
JUNCTION CHAMBER
TYPE 1 FRAME, CLOSED LID
RIM EL 628.24
INV EL 621.70 (48' N)
INV EL 621.70 (48' EQ HE S)
INV EL 623.00 (12' W)

DRAWING NO. DRN5
STA 114+00 TO STA 126+00 (REACH 2)

- 8 STA 109+90, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 627.96
INV EL 624.47 (12' E)
- 9 STA 109+90, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 627.96
INV EL 624.47 (12' W)
- 10 STA 111+10, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 628.40
INV EL 624.55 (12' E)
- 11 STA 111+10, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 628.40
INV EL 624.55 (12' W)
- 18 STA 106+13, 50' LT.
PRC FLARED END SECTION, 48' DIA. EQ
INV EL 621.48
- 22 STA 112+00, 40.5' LT (~ MH)
MANHOLE, TYPE A, 6' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 629.20
INV EL 622.54 (48' N)
INV EL 622.44 (48' S)
- (EX JC) STA 112+30, CL
EXISTING JUNCTION CHAMBER
TYPE 1 FRAME, CLOSED LID
EXISTING RIM EL 628.85
PROPOSED RIM EL 629.38
EX INV EL 624.41 (12' E,W)
EX INV EL 621.06 (78' EQ HE) S
EX INV EL 621.16 (78' EQ HE) N
- 12 STA 112+30, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 628.83
INV EL 624.67 (12' E)
- 13 STA 112+30, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 628.83
INV EL 624.67 (12' W)
- 14 STA 113+50, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 629.26
INV EL 624.86 (12' E)
- 15 STA 113+50, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 629.26
INV EL 624.86 (12' W)

DRAWING NO. DRN5
STA 114+00 TO STA 126+00 (REACH 2)

- 23 STA 114+92, 36.2' LT
MANHOLE, TYPE A, 6' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 630.40
INV EL 623.70 (48' N)
INV EL 623.68 (48' S)
- (EX JC) STA 114+95, CL
EXISTING JUNCTION CHAMBER
TYPE 1 FRAME, CLOSED LID
EXISTING RIM EL 630.60
PROPOSED RIM EL 630.60
EX INV EL 624.58 (12' E,W)
EX INV EL 623.08 (42' N)
EX INV EL 621.33 (78' EQ HE) S
- 17 STA 114+95, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 630.03
INV EL 625.01 (12' W)
- 16 STA 114+98, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 630.06
INV EL 625.01 (12' E)
- 2 STA 116+42, CL
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 632.03
INV EL 625.99 (12' E,W)
INV EL 624.49 (36' N)
INV EL 623.99 (36' S)
- 3 STA 116+45, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 631.41
INV EL 626.39 (12' N)
INV EL 626.29 (12' E)
- 4 STA 117+00, 46.5' LT
INLET, TYPE A
WITH TYPE 8 GRATE
RIM EL 630.00
INV EL 626.91 (12' S)
- 5 STA 116+45, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 631.41
INV EL 626.29 (12' W)
- 6 STA 118+45, CL
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 634.24
INV EL 628.28 (12' E,W)
INV EL 626.39 (36' N)
INV EL 626.28 (36' S)
- 7 STA 118+45, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 633.60
INV EL 628.73 (12' E)
- 8 STA 118+45, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 633.60
INV EL 628.73 (12' W)

DRAWING NO. DRN6
STA 126+00 TO STA 138+00 (REACH 2)

- 9 STA 120+70, 2' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 637.98
INV EL 632.09 (12' E,W)
INV EL 630.19 (36' N)
INV EL 633.21 (36' S)
- 10 STA 120+70, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 637.38
INV EL 632.63 (12' E)
- 11 STA 120+70, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 637.38
INV EL 632.63 (12' W)
- 12 STA 122+95, 6' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 641.66
INV EL 634.02 (12' E,W)
INV EL 632.12 (36' N)
INV EL 632.02 (36' S)
- 13 STA 122+95, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 641.14
INV EL 634.38 (12' E)
- 14 STA 122+95, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 641.14
INV EL 634.38 (12' W)
- 15 STA 126+00, 5' LT
MANHOLE, TYPE A, 5' DIA.
TYPE 1 FRAME, CLOSED LID
RIM EL 643.12
INV EL 634.87 (E,W)
INV EL 632.97 (36' N)
INV EL 634.30 (36' S)
- 16 STA 126+00, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 642.00
INV EL 635.23 (12' E)
- 17 STA 126+00, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 642.00
INV EL 635.23 (12' W)
- 18 STA 127+25, 5' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 642.45
INV EL 635.21 (12' E,W)
INV EL 633.31 (36' N)
INV EL 633.21 (36' S)
- 19 STA 127+25, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 641.43
INV EL 635.57 (12' E)
- 20 STA 127+25, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 641.43
INV EL 635.57 (12' W)
- 21 STA 128+50, 5' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 641.87
INV EL 635.55 (12' E,W)
INV EL 633.80 (33' N)
INV EL 633.55 (36' S)
- 22 STA 128+50, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 640.85
INV EL 635.91 (12' E)
- 23 STA 128+50, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 640.85
INV EL 635.91 (12' W)
- 24 STA 129+55, 6' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 641.01
INV EL 635.14 (12' W)
INV EL 635.14 (12' E)
INV EL 634.30 (30' N)
INV EL 634.05 (33' S)
- 25 STA 129+55, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 640.49
INV EL 635.80 (12' W)
INV EL 635.60 (12' N)
INV EL 635.50 (12' E)
- 27 STA 129+55, 42' LT
PRC FLARED END SECTION, 12'
INV EL 636.80
- 28 STA 129+55, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 640.49
INV EL 635.60 (12' N)
INV EL 635.50 (12' W)

- 29 STA 129+75, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 640.51
INV EL 635.76 (12' S)
- 26 STA 129+75, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 640.51
INV EL 635.76 (12' S)
- 30 STA 130+80, 6' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 641.38
INV EL 635.75 (12' W)
INV EL 635.16 (12' E)
INV EL 634.96 (27' N)
INV EL 634.66 (30' S)
- 31 STA 130+80, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 640.86
INV EL 636.11 (12' E)
- 32 STA 130+80, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 640.86
INV EL 635.34 (12' W)
INV EL 635.42 (12' E)
- 33 STA 130+80, 48' RT
INLET, TYPE A
W/ TYPE 8 GRATE
RIM EL 637.60
INV EL 635.52 (12' W)
- 34 STA 131+85, 6' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 641.76
INV EL 636.13 (12' E,W)
INV EL 635.59 (24' N)
INV EL 635.34 (30' S)
- 35 STA 131+80, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 641.22
INV EL 636.49 (12' E)
- 36 STA 131+85, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 641.24
INV EL 636.49 (12' W)
INV EL 636.69 (12' NE)

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
DRAINAGE NOTES			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: N.J.L. CHECKED BY: N.J.L. DRAWN BY: J.T.F.	
SCALE: N.T.S.		SCALE: N.T.S.	

NO.	DATE	REVISION	BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25+5	98-00036-19-FP	WILL	147	61
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 83896

DRAWING NO. DRN6 (CONTINUATION)
STA 126+00 TO STA 138+00 (REACH 2)

- 36A STA 132+42, 63' RT
PRC FLARED END SECTION, 12"
INV EL 637.32
- 37 STA 132+90, 5' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 642.71
INV EL 636.58 (12' E,W)
INV EL 636.34 (21' N)
INV EL 636.09 (24' S)
- 38 STA 132+90, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 641.69
INV EL 636.94 (12' E)
- 39 STA 132+90, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 641.69
INV EL 636.94 (12' W)
INV EL 637.14 (12' E)
- 40 STA 132+90, 48' RT
INLET, TYPE A
W/ TYPE 8 GRATE
RIM EL 639.50
INV EL 637.24 (12' W)
- 41 STA 134+95, 5' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 646.04
INV EL 639.91 (12' E,W)
INV EL 639.59 (18' N)
INV EL 639.34 (21' S)
- 42 STA 134+95, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 645.02
INV EL 640.27 (12' E)
- 43 STA 134+95, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 645.02
INV EL 640.27 (12' W)
- 44 STA 137+20, 5' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 650.99
INV EL 644.86 (12' E,W)
INV EL 644.68 (15' N)
INV EL 644.43 (18' S)
- 45 STA 137+20, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 649.97
INV EL 645.22 (12' E)
- 46 STA 137+20, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 649.97
INV EL 645.22 (12' W)

DRAWING NO. DRN7
STA 138+00 TO STA 143+88.14 (REACH 2)

- 47 STA 139+45, 6' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 655.36
INV EL 649.73 (12' E,W)
INV EL 649.62 (15' N)
INV EL 649.52 (15' S)
- 48 STA 139+45, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 654.84
INV EL 650.09 (12' E)
- 49 STA 139+45, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 654.84
INV EL 650.09 (12' W)
- 50 STA 141+10, 6' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 657.28
INV EL 651.64 (12' E,W)
INV EL 651.47 (12' N)
INV EL 651.22 (15' S)
- 51 STA 141+10, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 656.76
INV EL 652.00 (12' E)
- 52 STA 141+10, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 656.76
INV EL 652.00 (12' W)
INV EL 652.10 (12' E)
- 53 STA 141+10, 46.1' RT
INLET, TYPE A
W/ TYPE 8 GRATE
RIM EL 655.60
INV EL 652.20 (12' W)
- 54 STA 142+45, 6' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 658.04
INV EL 652.41 (12' E,W)
INV EL 652.21 (12' S)
- 55 STA 142+45, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 657.52
INV EL 652.77 (12' E)
- 56 STA 142+45, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 657.52
INV EL 652.77 (12' W)

DRAWING NO. DRN7 (CONTINUATION)
STA 143+88.14 TO STA 150+00 (REACH 3)


- 16A STA 143+50, 6' LT
MANHOLE, TYPE A, 7' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 659.06
INV EL 653.94 (12' E,W)
INV EL 653.84 (12' N)
- 16 STA 144+90, 6' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 658.82
INV EL 653.94 (12' E,W)
INV EL 653.84 (12' N)
- 17 STA 144+90, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 657.80
INV EL 654.30 (12' E)
- 18 STA 144+90, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 657.80
INV EL 654.30 (12' W)
- 13 STA 146+00, 6' LT
MANHOLE, TYPE A, 7' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 658.38
INV EL 653.20 (12' E,W)
INV EL 651.55 (42' EQ HE) N
INV EL 653.20 (12' S)
- 14 STA 146+00, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 657.36
INV EL 653.56 (12' E)
- 15 STA 146+00, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 657.36
INV EL 653.56 (12' W)
- 10 STA 147+10, 6' LT
MANHOLE, TYPE A, 7' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 657.94
INV EL 652.63 (12' E,W)
INV EL 651.35 (42' EQ HE) N
INV EL 651.45 (42' EQ HE) S
- 11 STA 147+10, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 656.92
INV EL 652.99 (12' E)
- 12 STA 147+10, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 656.92
INV EL 652.99 (12' W)

DRAWING NO. DRN8
STA 150+00 TO STA 162+00 (REACH 3)

- 19 STA 150+07, 6' LT
JUNCTION CHAMBER, SPECIAL
W/ 2 TYPE 1 FRAME, CLOSED LIDS
RIM EL A 656.44
RIM EL B 656.30
INV EL 652.10 (12' E,W)
INV EL 650.60 (54' EQ HE) N
INV EL 650.50 (18' S)
- 20 STA 150+07, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 655.84
INV EL 652.52 (12' N)
INV EL 652.32 (12' E)
- 22 STA 150+07, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 655.84
INV EL 652.54 (12' N)
INV EL 652.44 (12' W)
- 21 STA 150+25, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 655.86
INV EL 652.66 (12' S)
- 23 STA 150+25, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 655.86
INV EL 652.68 (12' S)
- 24 STA 152+00, 6' LT
JUNCTION CHAMBER
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 657.65
INV EL 652.88 (12' E,W)
INV EL 652.90 (12' N)
INV EL 650.80 (54' EQ HE) S
- 25 STA 152+00, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 657.06
INV EL 653.24 (12' E)
- 26 STA 152+00, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 657.06
INV EL 653.24 (12' W)
- 17 STA 161+50, CL
JUNCTION CHAMBER
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 648.69
INV EL 640.18 (15' S)
INV EL 637.69 (60' EQ HE) N
- 27 STA 153+75, 6' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 659.33
INV EL 654.70 (12' E,W)
INV EL 654.60 (12' S)
- 28 STA 153+75, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 658.81
INV EL 655.06 (12' E)
- 29 STA 153+75, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 658.81
INV EL 655.06 (12' W)
- 5 STA 157+60, 6' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 659.32
INV EL 653.69 (12' E,W)
INV EL 653.59 (12' N)
- 6 STA 157+60, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 658.80
INV EL 654.05 (12' E)
- 7 STA 157+60, 32' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 658.80
INV EL 654.05 (12' W)
- 2 STA 160+10, CL
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 652.80
INV EL 647.12 (12' E,W)
INV EL 646.93 (12' S)
INV EL 646.68 (15' N)
- 3 STA 160+10, 27.33' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 652.26
INV EL 647.51 (12' E)
- 4 STA 160+10, 27.33' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 652.26
INV EL 647.51 (12' W)
- 5A STA 149+25, 32' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 656.06
INV EL 652.46 (12' W)
(CONSTRUCT OVER EX. 18" DIA SS)
- 2 STA 149+80.1, 6' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 656.39
INV EL 650.70 (18' W)
INV EL 650.20 (18' N,S)
INV EL 650.20 (24' E)
- 1 STA 149+80, 43' RT
PRC FLARED END SECTION, 24"
INV EL 649.90
- 3 STA 149+79.3, 32.6' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 655.87
INV EL 651.30 (12' W)
INV EL 651.39 (18' S)
INV EL 651.18 (18' E)
- 4 STA 149+75, 48' LT
INLET, TYPE A
W/ TYPE 8 GRATE
RIM EL 653.50
INV EL 651.65 (8' W)
INV EL 651.42 (12' E)

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
DRAINAGE NOTES

 McDonough Associates Inc. Engineers/Architects	DESIGNED BY: N.J.L.	SCALE:
	CHECKED BY: N.J.L.	N.T.S.
	DRAWN BY: J.T.F.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2545	98-00036-19-FP	WILL	127	62
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

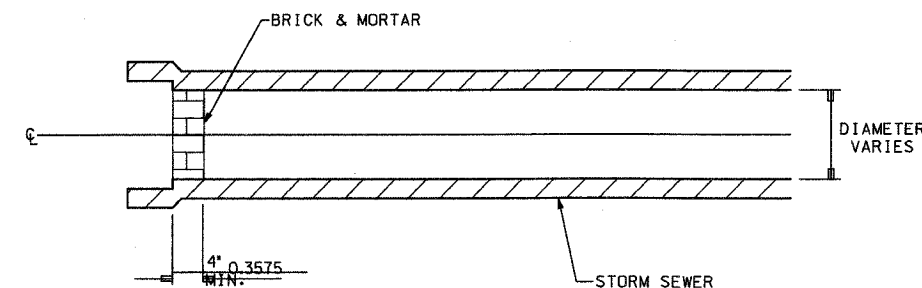
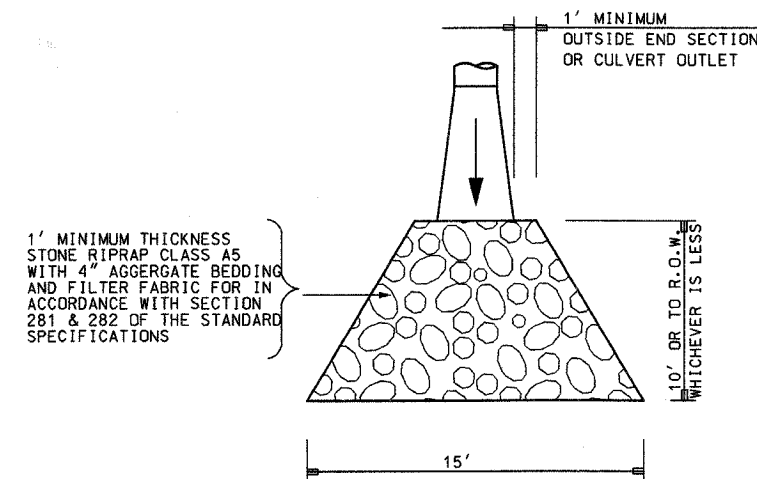
CONTRACT NO. 83896

**DRAWING NO. DRN9
STA 162+00 TO STA 174+00 (REACH 3)**

- | | |
|---|---|
| <p>1 STA 162+30, CL
JUNCTION CHAMBER, SPECIAL
W/ 2 TYPE IFRAME, CLOSED LIDS
RIM EL A 646.76
RIM EL B 646.79
INV EL 637.40 (24' E)
INV EL 637.50 (72' EQ HE) N,S</p> <p>8 STA 162+60, CL
JUNCTION CHAMBER, NO. 2
W/ TYPE IFRAME, CLOSED LID
RIM EL 646.24
INV EL 640.80 (12' E,W)
INV EL 637.65 (72' EQ HE) N
INV EL 637.55 (72' EQ HE) S</p> <p>9 STA 162+60, 26' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 645.77
INV EL 641.02 (12' E)</p> <p>10 STA 162+60, 26' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 645.77
INV EL 641.02 (12' W)</p> <p>11 STA 163+76, CL
JUNCTION CHAMBER, NO. 2
W/ TYPE IFRAME, CLOSED LID
RIM EL 645.36
INV EL 639.70 (12' E,W)
INV EL 637.97 (72' EQ HE) N
INV EL 637.87 (72' EQ HE) S</p> <p>12 STA 163+76, 26' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 644.90
INV EL 640.02 (12' N)
INV EL 639.92 (12' E)</p> <p>14 STA 163+76, 26' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 644.90
INV EL 640.02 (12' N)
INV EL 639.92 (12' W)</p> | <p>13 STA 163+95, 26' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 644.93
INV EL 640.18 (12' S)</p> <p>15 STA 163+95, 26' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 644.93
INV EL 640.18 (12' S)</p> <p>16 STA 164+60, CL
JUNCTION CHAMBER, NO. 2
TYPE IFRAME, CLOSED LID
RIM EL 645.60
INV EL 638.15 (72' EQ HE) S</p> <p>1A STA 162+30, 34' RT
OUTLET 24' DIA. SS
THROUGH RETAINING WALL
INV EL 637.25</p> <p>1B STA 164+86, 34' RT
OUTLET 48' DIA. RCP
THROUGH RETAINING WALL
INV EL 638.30</p> <p>18 STA 164+86, 42' LT
PRC FLARED END SECTION, 48"
INV EL 638.52</p> <p>19 STA 166+45, CL
MANHOLE, TYPE A, 4' DIA.
W/ TYPE IFRAME, CLOSED LID
RIM EL 645.22
INV EL 639.64 (12' E,W)
INV EL 639.54 (12' N)</p> <p>20 STA 166+45, 28.5' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 644.65
INV EL 639.90 (12' E)</p> <p>21 STA 166+45, 28.5' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 644.65
INV EL 639.90 (12' W)</p> |
|---|---|

HORIZONTAL ELLIPTICAL (HE) PIPE

EQUIVALENT ROUND SIZE	(HE) PIPE (RISE X SPAN)
42"	34" X 53"
48"	38" X 60"
54"	43" X 68"
72"	58" X 91"



TEMPORARY STORM SEWER PLUG

NOTES:

- THIS WORK CONSISTS OF FURNISHING AND PLACING BRICKS AND MORTAR AS SHOWN AND AS DIRECTED BY THE ENGINEER AT LOCATIONS SHOWN IN THE PLANS TO TEMPORARILY PLUG THE EXISTING AND/OR PROPOSED STORM SEWER LATERAL STUBS DURING STAGE 2 WORK THIS PLUG WILL BE REMOVED DURING STAGE 3 WORK TO EXTEND LATERALS AND COMPLETE STORM SEWER INSTALLATION UNLESS OTHERWISE SHOWN ON PLANS. CONTRACTOR MAY USE OTHER OPTIONS WITH OWNERS APPROVAL.
- THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "PLUG EXISTING STORM SEWERS".
- TEMPORARY STORM SEWER PLUGS INSTALLED IN PREVIOUS CONTRACT AT LOCATIONS NOTED IN THE PLANS WILL BE REMOVED AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "REMOVE STORM SEWER PLUG."

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14) ROADWAY RECONSTRUCTION - DRAINAGE NOTES AND MISCELLANEOUS DETAILS			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: N.J.L. CHECKED BY: N.J.L. DRAWN BY: J.T.F.	SCALE: N.T.S.
NO.	DATE	REVISION	BY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	63
FEDERAL DIST. NO. 7				
* 98-00036-19-FP				

CONTRACT NO. 83896

29 STA 69+61.5, 92.6' RT
MANHOLE, TYPE A, 7' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 641.9
INV EL 636.50 (15" W)
INV EL 635.99 (24" E)
INV EL 635.99 (48" EQ HE N)

31 STA 69+65.0, 104.1' RT
MANHOLE, TYPE A, 7' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 641.85
INV EL 636.01 (24" W)
INV EL 636.01 (24" E)
INV EL 636.01 (48" EQ HE N)

30 STA 71+63.5, 51.2' RT
MANHOLE, TYPE A, 7' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 641.75
INV EL 635.89 (24" W)
INV EL 635.89 (24" E)
INV EL 635.89 (48" EQ HE S)

33 STA 69+67.5, 112.7' RT
MANHOLE, TYPE A, 7' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 641.75
INV EL 636.03 (24" W)
INV EL 636.03 (24" E)
INV EL 636.03 (48" EQ HE N)

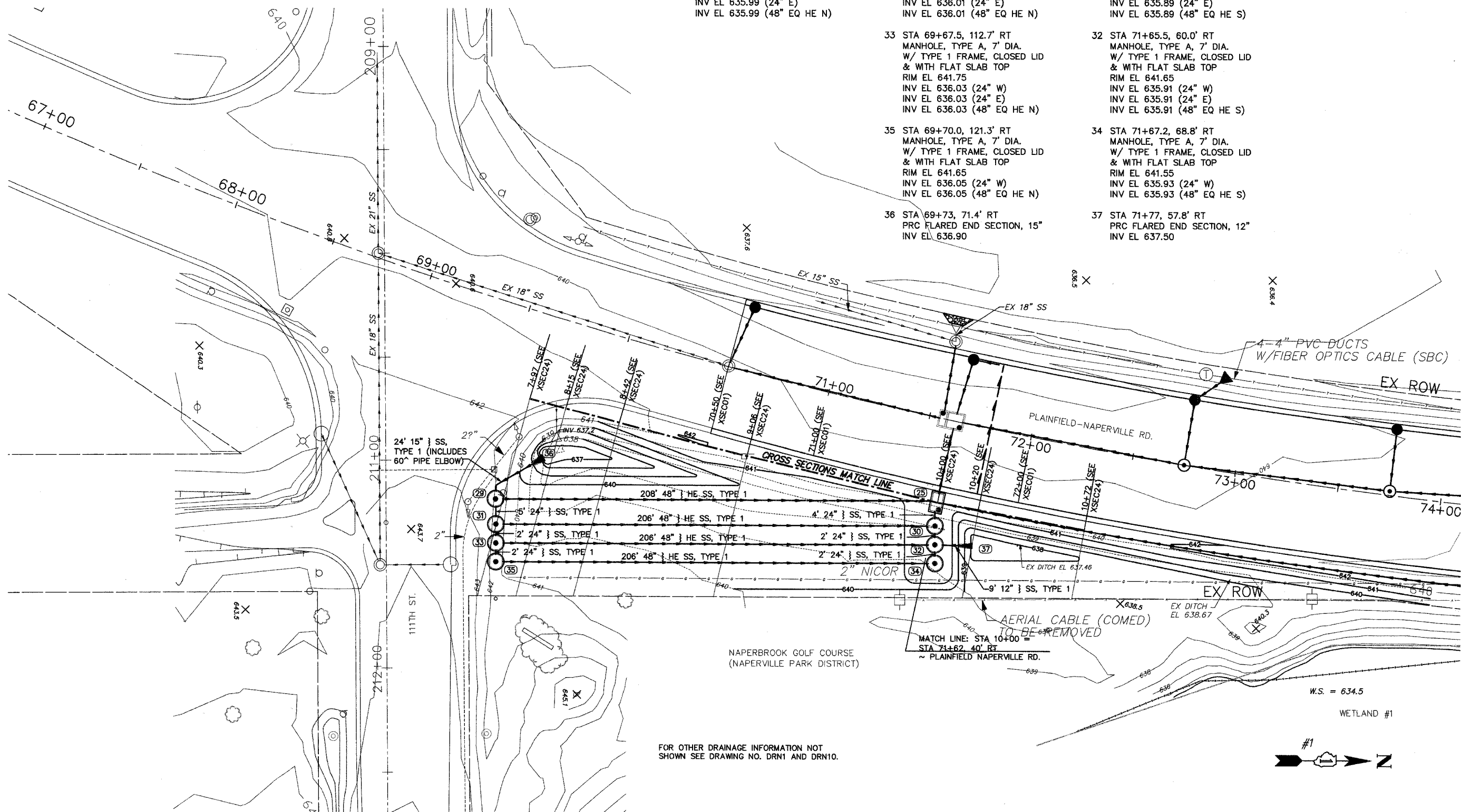
32 STA 71+65.5, 60.0' RT
MANHOLE, TYPE A, 7' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 641.65
INV EL 635.91 (24" W)
INV EL 635.91 (24" E)
INV EL 635.91 (48" EQ HE S)

35 STA 69+70.0, 121.3' RT
MANHOLE, TYPE A, 7' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 641.65
INV EL 636.05 (24" W)
INV EL 636.05 (48" EQ HE N)

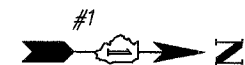
34 STA 71+67.2, 68.8' RT
MANHOLE, TYPE A, 7' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 641.55
INV EL 635.93 (24" W)
INV EL 635.93 (48" EQ HE S)

36 STA 69+73, 71.4' RT
PRC FLARED END SECTION, 15"
INV EL 636.90

37 STA 71+77, 57.8' RT
PRC FLARED END SECTION, 12"
INV EL 637.50



FOR OTHER DRAINAGE INFORMATION NOT SHOWN SEE DRAWING NO. DRN1 AND DRN10.



NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
DRAINAGE AND REGRADING PLAN
111TH STREET TO STA 74+00

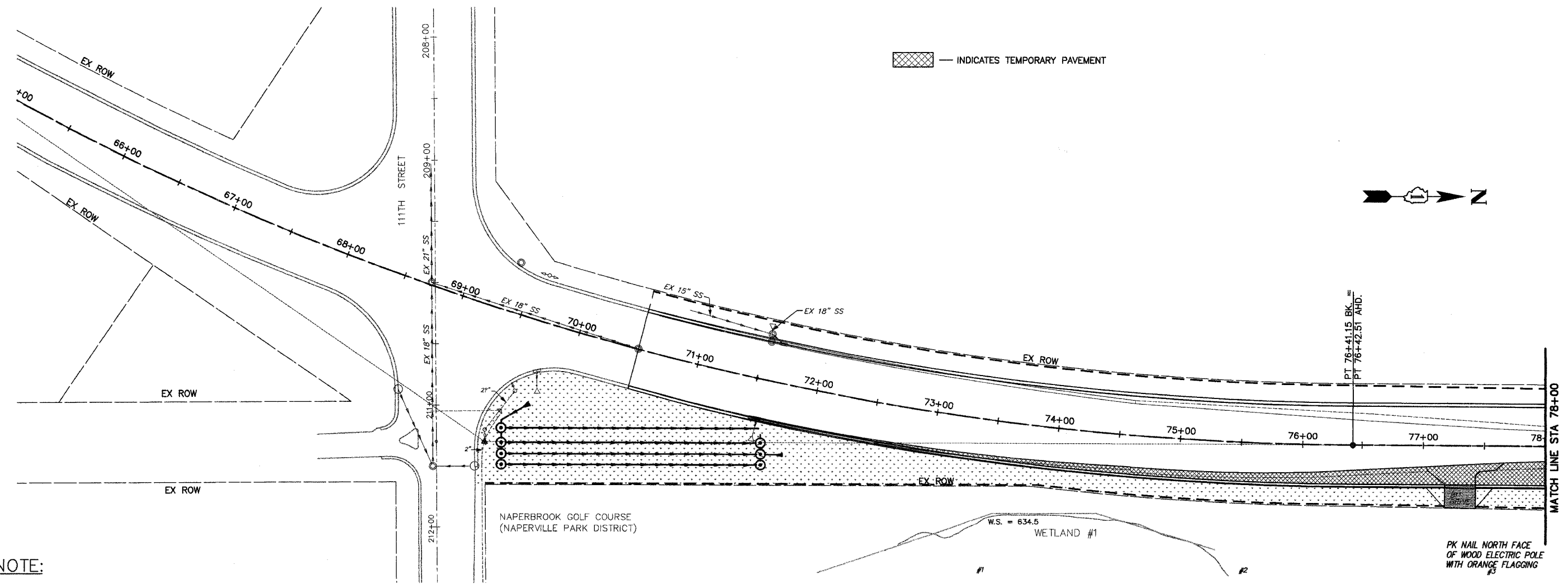
McDonough Associates Inc.
Engineers/Architects

DESIGNED BY:
CHECKED BY:
DRAWN BY:

SCALE:
1" = 20'

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\DRN14.dwg
PLOT DATE: 07/08/05 - 08:05

ROUTE NO.	SUBSECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	64
FEDERAL DIST. NO. 7		BLK. NO.	FED. AID PROJECT.	
* 98-00036-19-FP		CONTRACT NO. 83896		



NOTE:
 QUANTITIES HAVE BEEN ESTIMATED FOR 50% OF THE AREA SHOWN HEREIN FOR TEMPORARY EROSION CONTROL SEEDING WHICH WILL BE USED ONLY AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH ARTICLE 280.04(f) OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED HEREIN. THE UNIT PRICES BID FOR ITEMS TEMPORARY EROSION CONTROL SEEDING AND MULCH METHOD 2 SHALL REMAIN CONSTANT THROUGHOUT THE DURATION OF THE CONTRACT REGARDLESS IF THERE IS AN INCREASE OR A DECREASE IN THE QUANTITIES ESTIMATED FOR THESE ITEMS.

- LEGEND**
- INLET & PIPE PROTECTION (TYPICAL)
 - TEMPORARY EROSION CONTROL SEEDING & MULCH METHOD 2
 - AGGREGATE TEMPORARY ACCESS
 - DRN. STRUCTURE INLET FILTER
 - TEMPORARY DITCH CHECK
 - PERIMETER EROSION BARRIER (SILT FILTER FENCE)
 - TEMPORARY FENCE

NOTE:
 TEMPORARY EROSION CONTROL SEEDING SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH SPECIAL PROVISIONS.

P1
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TEC14STG1.dwg
 PLOT DATE: 07/08/05 - 08:06

NO.	DATE	REVISION	BY

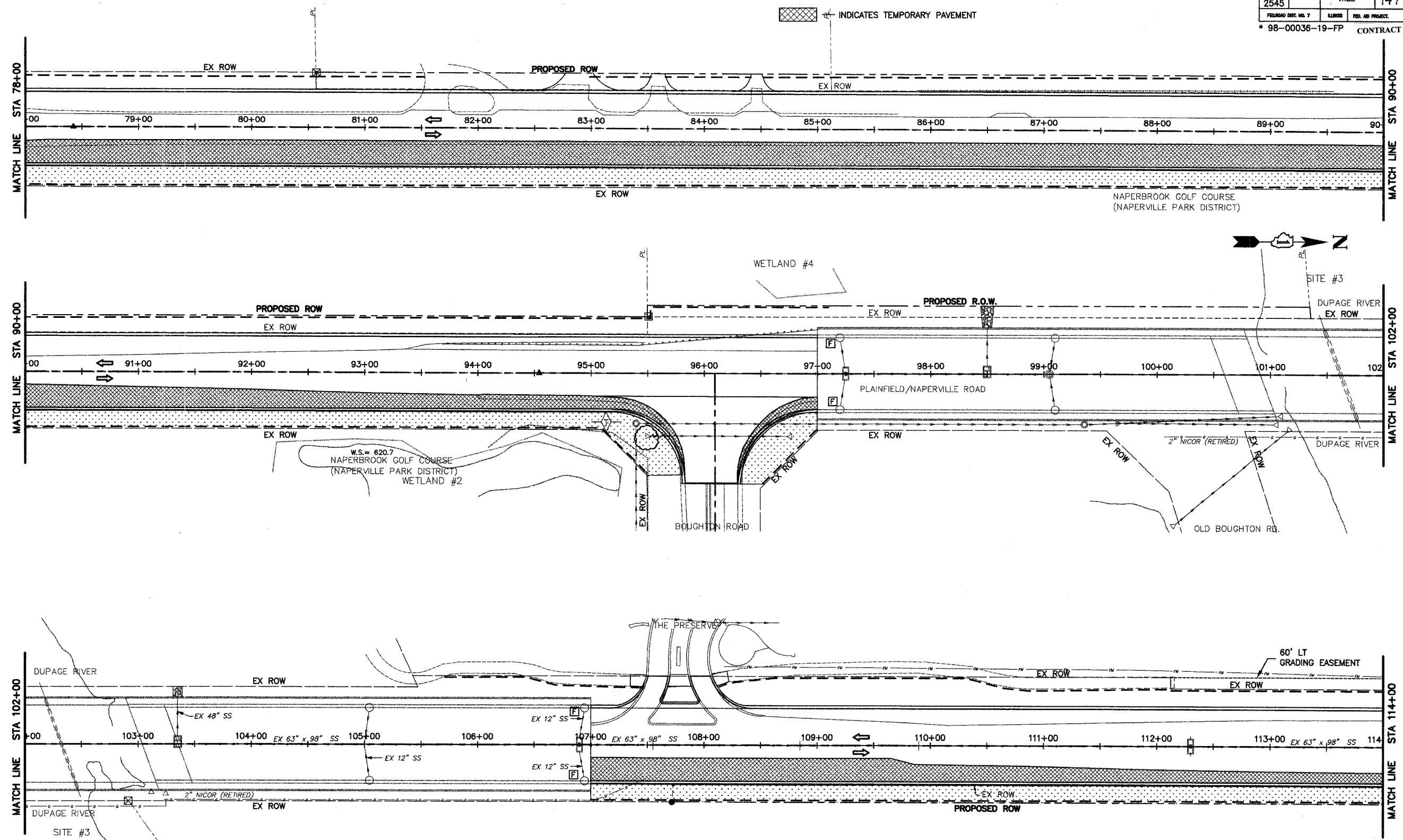
WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 TEMPORARY EROSION CONTROL - STAGE 1
 STA 69+66 TO STA 78+00

McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: JTF
 CHECKED BY: NJL
 DRAWN BY: JTF

SCALE:
 1" = 40'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	65
FEDERAL DIST. NO. 7		KLINGB.	FED. AID PROJECT	
* 98-00036-19-FP CONTRACT NO. 83896				



LEGEND

- INLET & PIPE PROTECTION (TYPICAL)
- TEMPORARY EROSION CONTROL SEEDING & MULCH METHOD 2
- AGGREGATE TEMPORARY ACCESS
- DRN. STRUCTURE INLET FILTER
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER (SILT FILTER FENCE)
- TEMPORARY FENCE

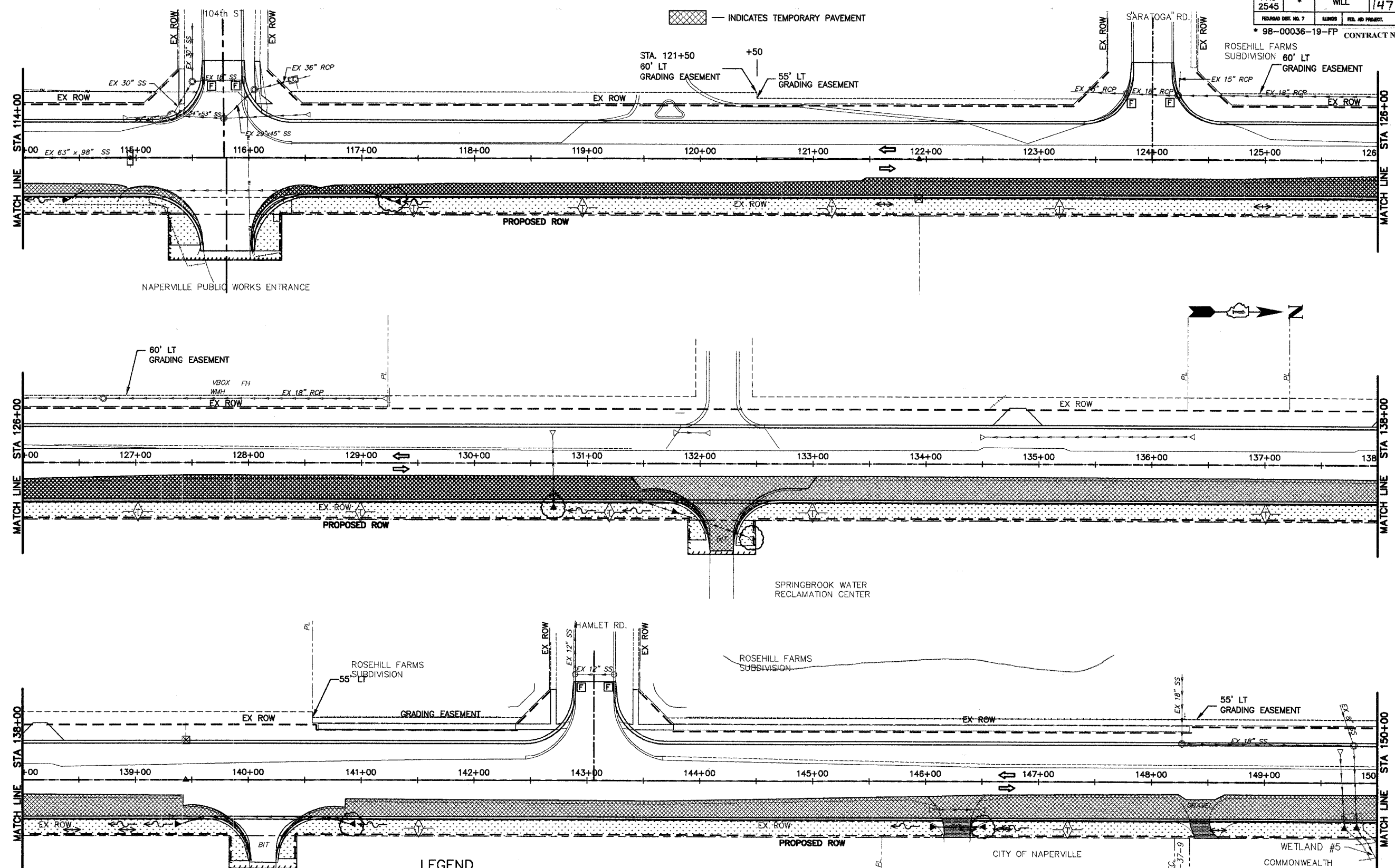
NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
TEMPORARY EROSION CONTROL - STAGE 1
STA 78+00 TO STA 114+00

McDonough Associates Inc. Engineers/Architects	DESIGNED BY: JTF	SCALE: 1" = 40'
	CHECKED BY: NJL DRAWN BY: JTF	

P2
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TEC14STG1.dwg
 PLOT DATE: 07/08/05 - 08:06

ROUTE NO.	SECTION	COUNTY	TECH. SHEETS	SHEET NO.
FAU 2545	*	WILL	147	66
FED. AID DIST. NO. 7		ALBION	FED. AID PROJECT	
* 98-00036-19-FP		CONTRACT NO. 83896		



INDICATES TEMPORARY PAVEMENT

LEGEND

- INLET & PIPE PROTECTION (TYPICAL)
- TEMPORARY EROSION CONTROL SEEDING & MULCH METHOD 2
- AGGREGATE TEMPORARY ACCESS
- DRN. STRUCTURE INLET FILTER
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER (SILT FILTER FENCE)
- TEMPORARY FENCE

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 TEMPORARY EROSION CONTROL - STAGE 1
 STA 114+00 TO 150+00

McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: JTF
 CHECKED BY: NJL
 DRAWN BY: JTF

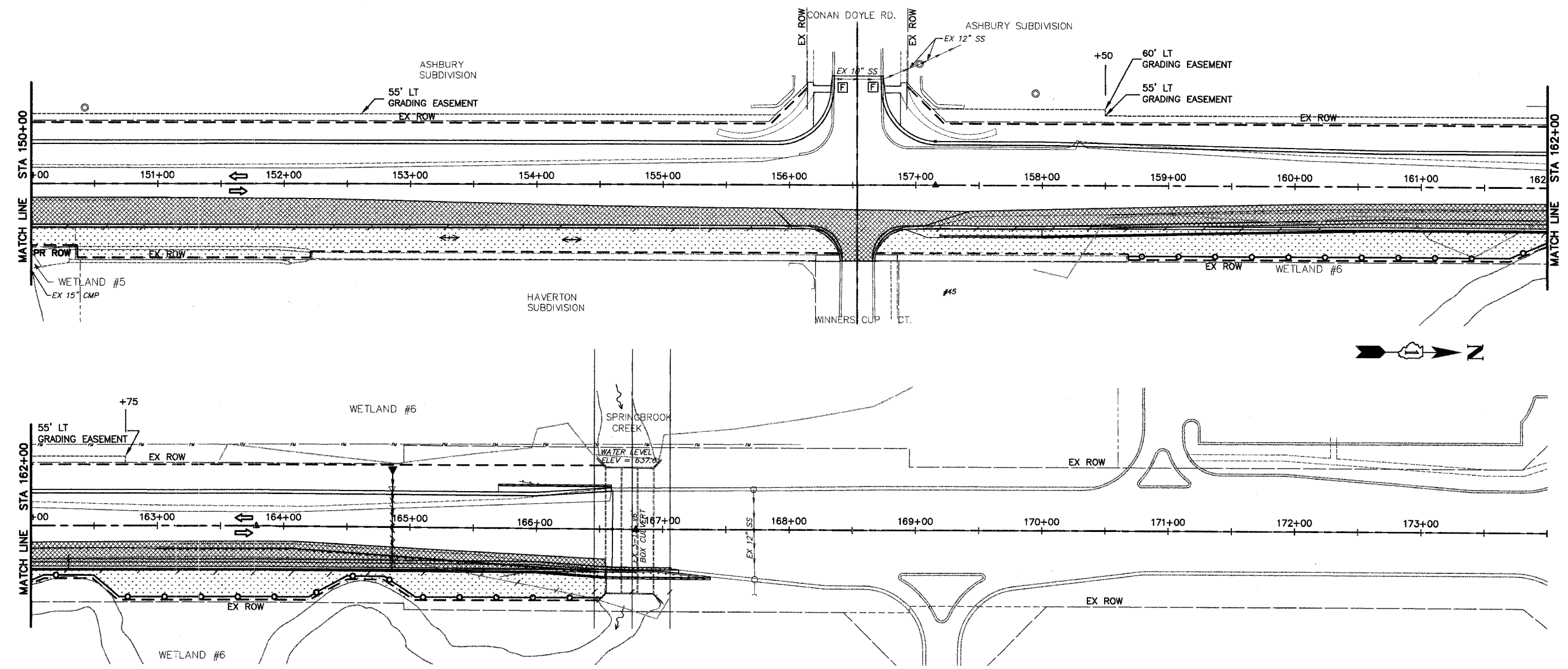
SCALE:
 1" = 40'

P3
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TEC14STG1.dwg
 PLOT DATE: 07/08/05 - 08:06

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	67
RELINQUISH DATE: NO. 7	BLANKS	FED. AID PROJECT:		

* 98-00036-19-FP
CONTRACT NO. 83896

INDICATES TEMPORARY PAVEMENT



LEGEND

- INLET & PIPE PROTECTION (TYPICAL)
- TEMPORARY EROSION CONTROL SEEDING & MULCH METHOD 2
- AGGREGATE TEMPORARY ACCESS
- DRN. STRUCTURE INLET FILTER
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER (SILT FILTER FENCE)
- TEMPORARY FENCE

P4
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TEC14STG1.dwg
PLOT DATE: 07/08/05 - 08:06

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
TEMPORARY EROSION CONTROL - STAGE 1
STA 150+00 TO 170+00

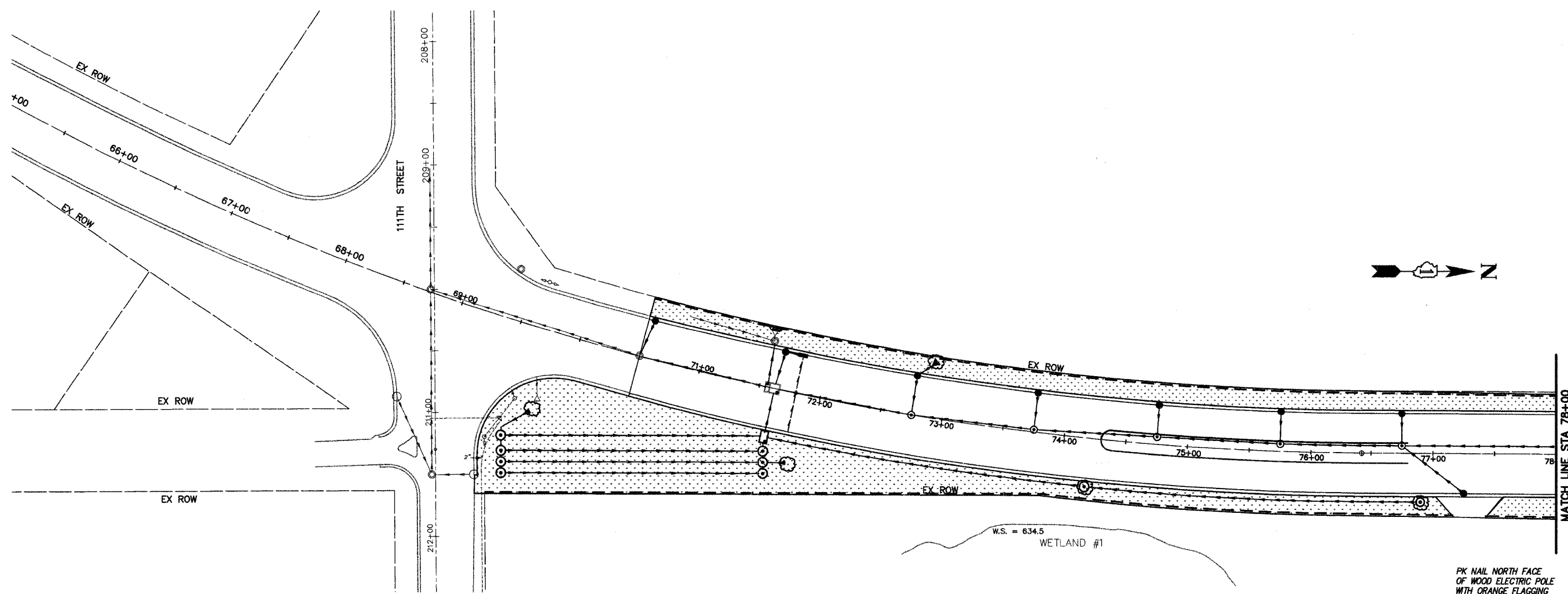
McDonough Associates Inc.
Engineers/Architects

DESIGNED BY: JTF
CHECKED BY: N.J.
DRAWN BY: JTF

SCALE:
1" = 40'

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	68
FEDERAL DIST. NO. 7		ALIGNMENT	FED. AID PROJECT	

* 98-00036-19-FP
CONTRACT NO. 83896



LEGEND

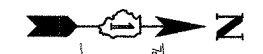
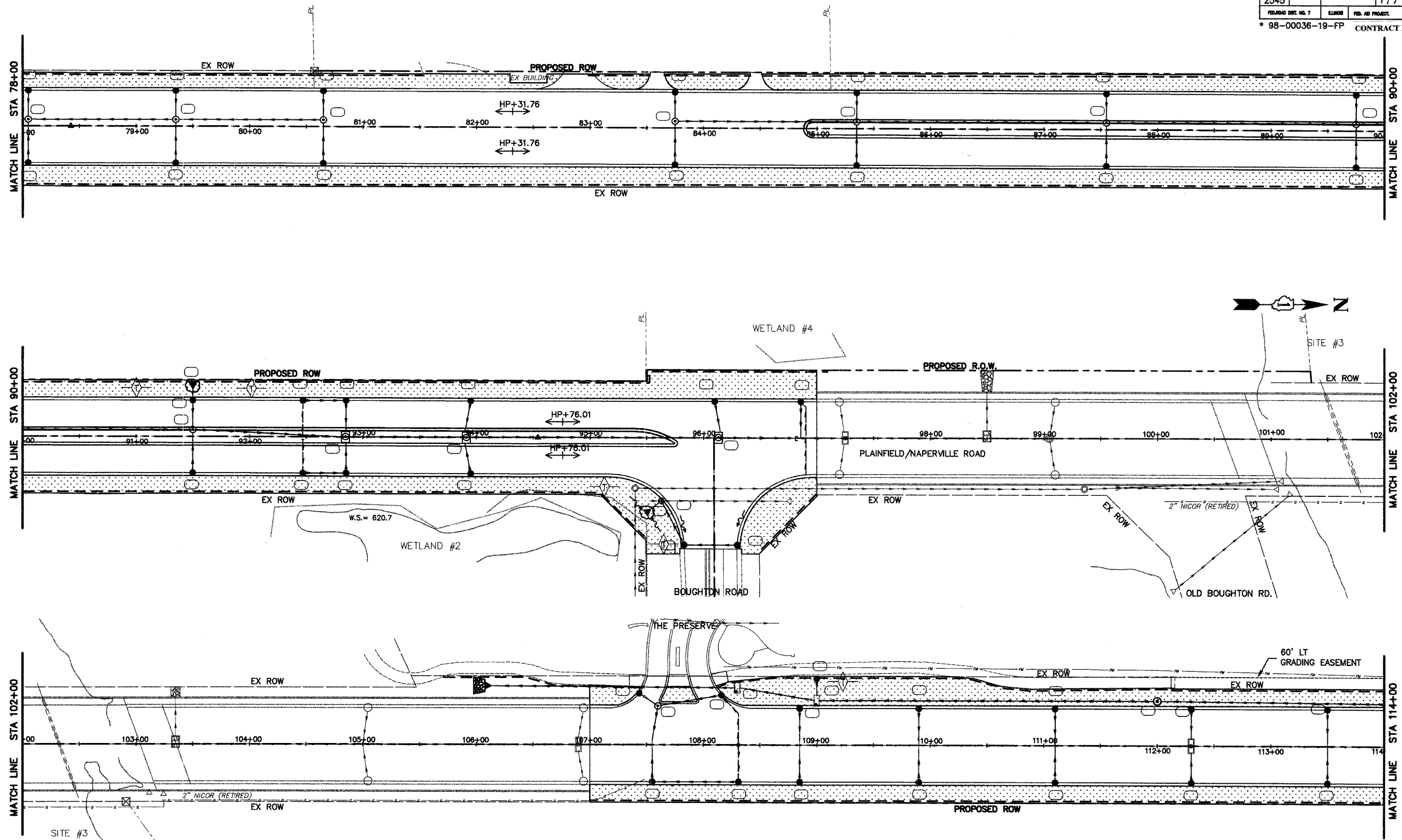


P1
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TEC58T02.dwg
PLOT DATE: 07/08/05 - 08:18

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
TEMPORARY EROSION CONTROL - STAGE 2 AND 3			
STA 69+66 TO STA 78+00			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: JTF CHECKED BY: NJL DRAWN BY: JTF	SCALE: 1" = 40'
NO.	DATE	REVISION	BY

TEC05

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	69
FEDERAL AID PROJ. NO. 7		ILLINOIS	FED. AID PROJECT	
* 98-00036-19-FP		CONTRACT NO. 83896		



LEGEND



NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
TEMPORARY EROSION CONTROL - STAGE 2 AND 3
STA 78+00 TO STA 114+00

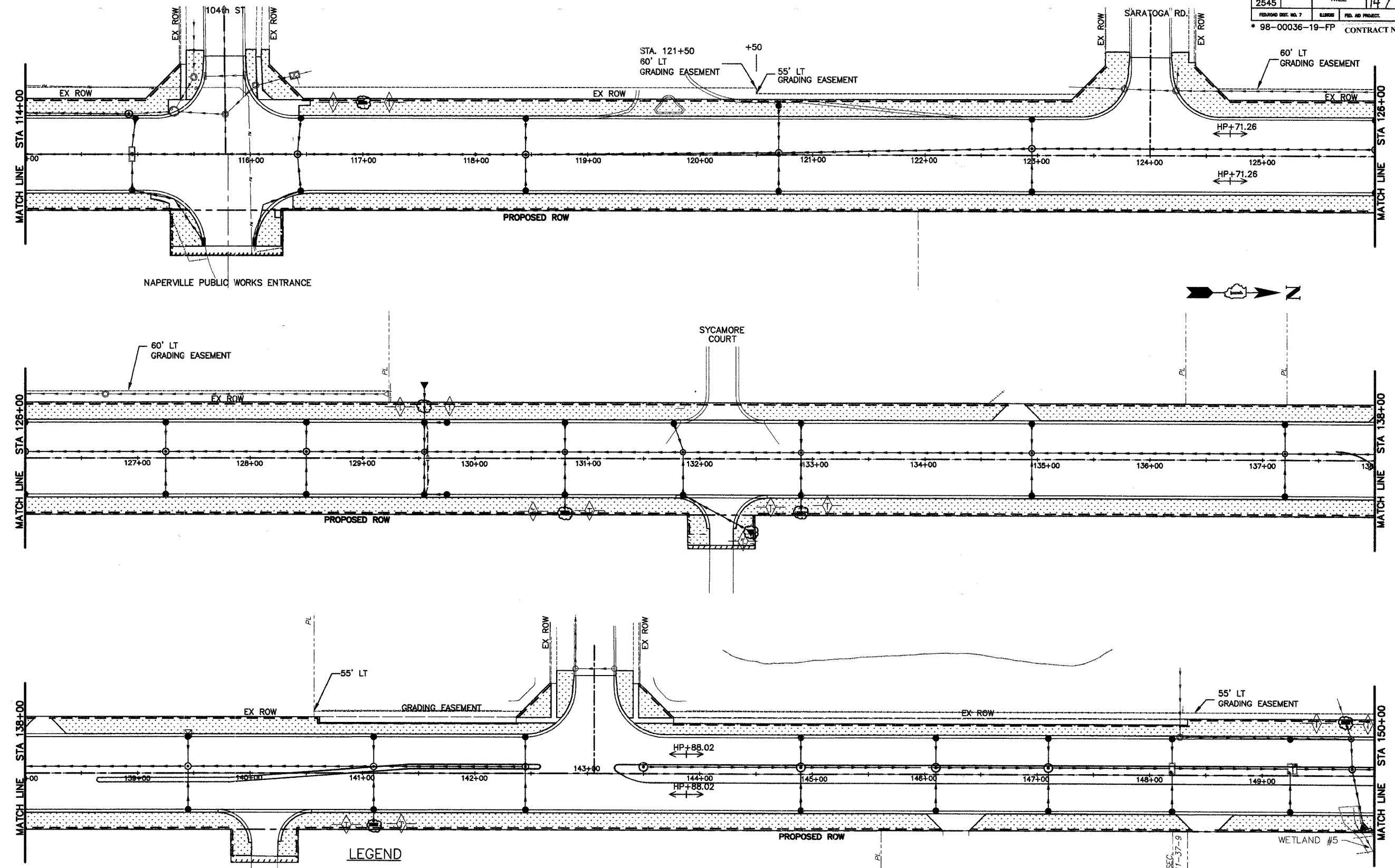
McDonough Associates Inc.
Engineers/Architects

DESIGNED BY: JTF
CHECKED BY: N.J.L.
DRAWN BY: JTF

SCALE:
1" = 40'

P2
DRAWING ID: G:\2003\0023 - Plainfield-Naperville Road\dwg\TEC58STG2.dwg
PLOT DATE: 07/08/05 - 08:18

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	70
FEDERAL DIST. NO. 7		ALLOTTED	FED. AID PROJECT:	
* 98-00036-19-FP CONTRACT NO. 83896				



NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 TEMPORARY EROSION CONTROL - STAGE 2 AND 3
 STA 114+00 TO 150+00

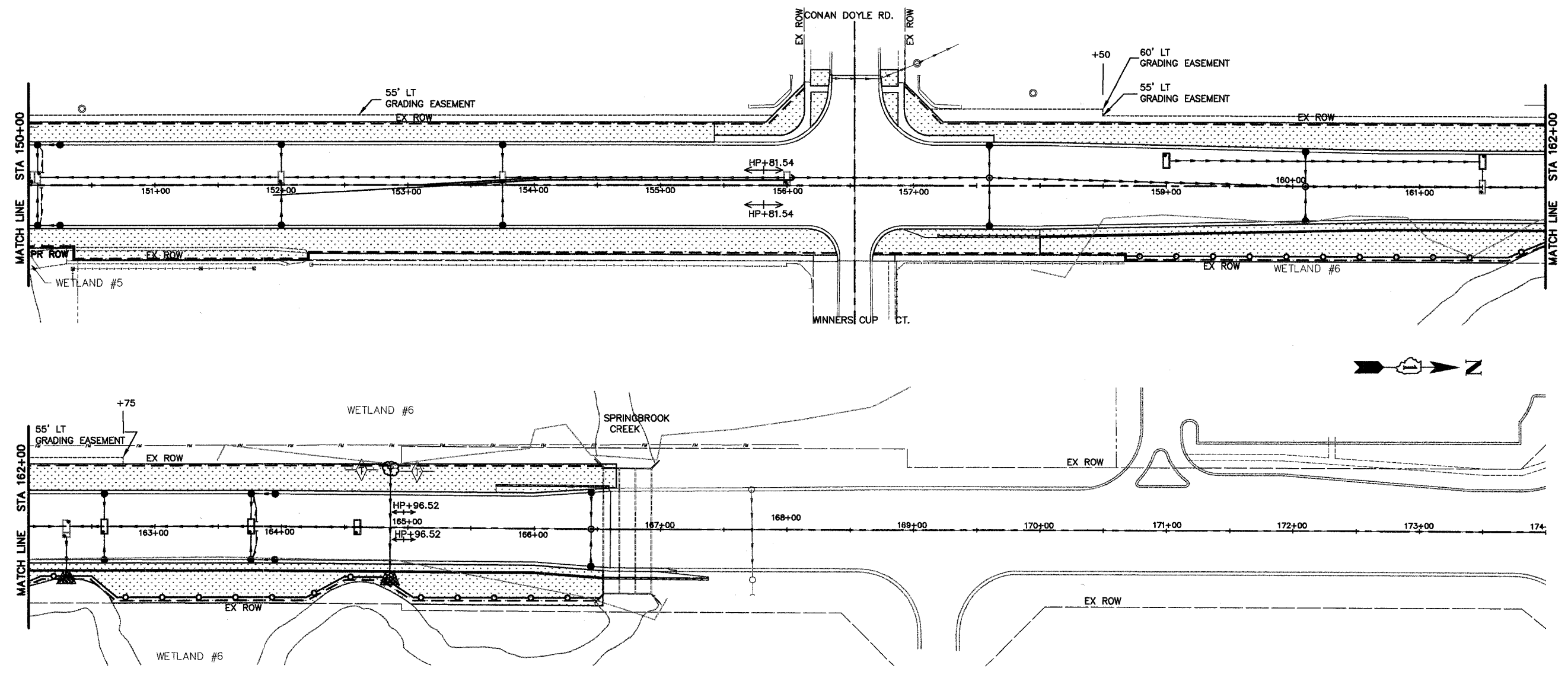
McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: JTF
 CHECKED BY: NJL
 DRAWN BY: JTF

SCALE:
1" = 40'

P3
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TEC058ST02.dwg
 PLOT DATE: 07/08/05 - 08:18

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	71
FEDERAL DIST. NO. 7		CLASS	FED. AID PROJECT	
* 98-00036-19-FP		CONTRACT NO. 83896		



LEGEND



NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 TEMPORARY EROSION CONTROL - STAGE 2 AND 3
 STA 150+00 TO 170+00

McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: JTF
 CHECKED BY: NJL
 DRAWN BY: JTF

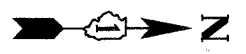
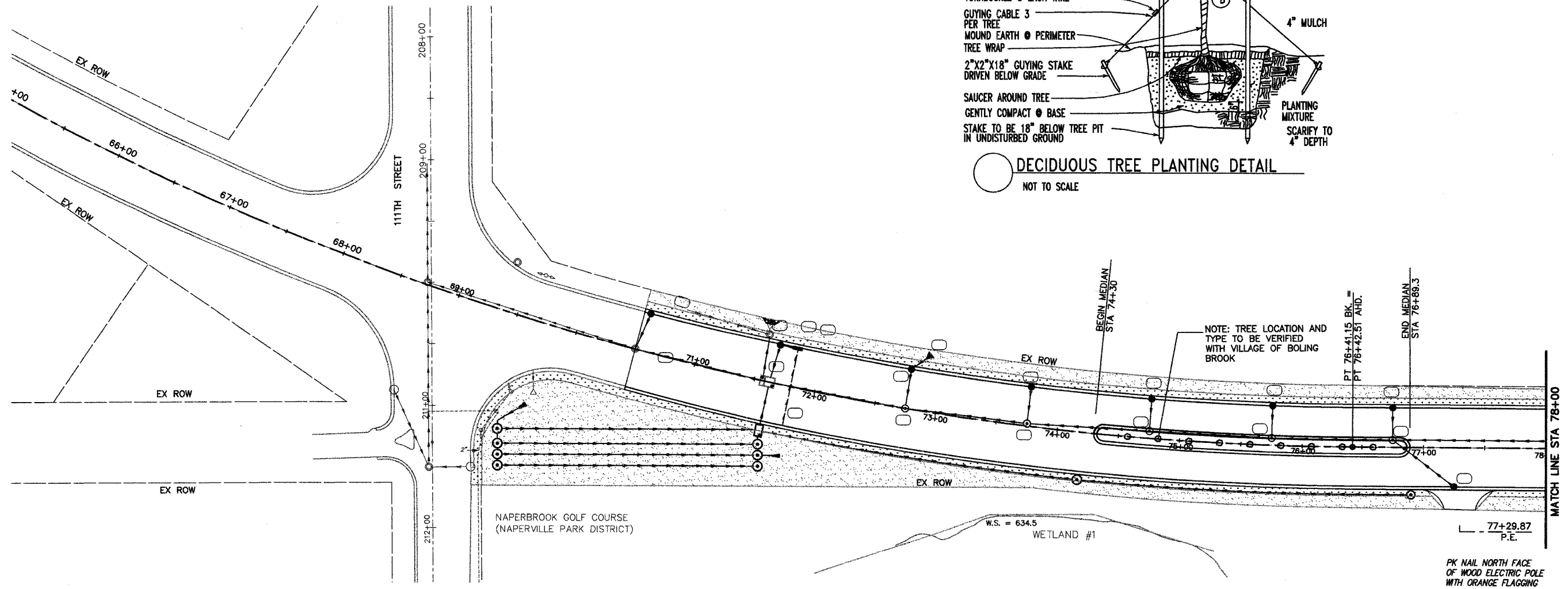
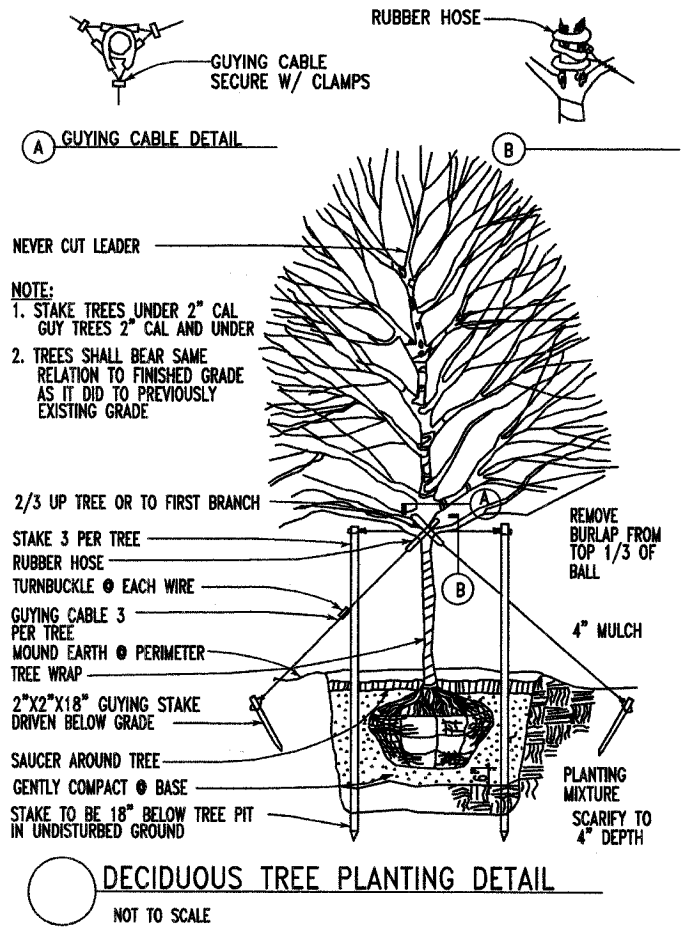
SCALE:
 1" = 40'

P4
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TEC585T62.dwg
 PLOT DATE: 07/08/05 - 08:18

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	72
FEDERAL AID PROJ. NO. 7				
* 98-00036-19-FP				
CONTRACT NO. 83896				

LEGEND

- SODDING SALT TOLERANT
- SEEDING CLASS 2A & EROSION CONTROL BLANKET
- STONE RIPRAP CLASS A5
- INLET & PIPE PROTECTION
- SEEDING CLASS 4A & EROSION CONTROL BLANKET
- TREE



NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
LANDSCAPING AND EROSION CONTROL PLAN
STA 69+66 TO STA 78+00

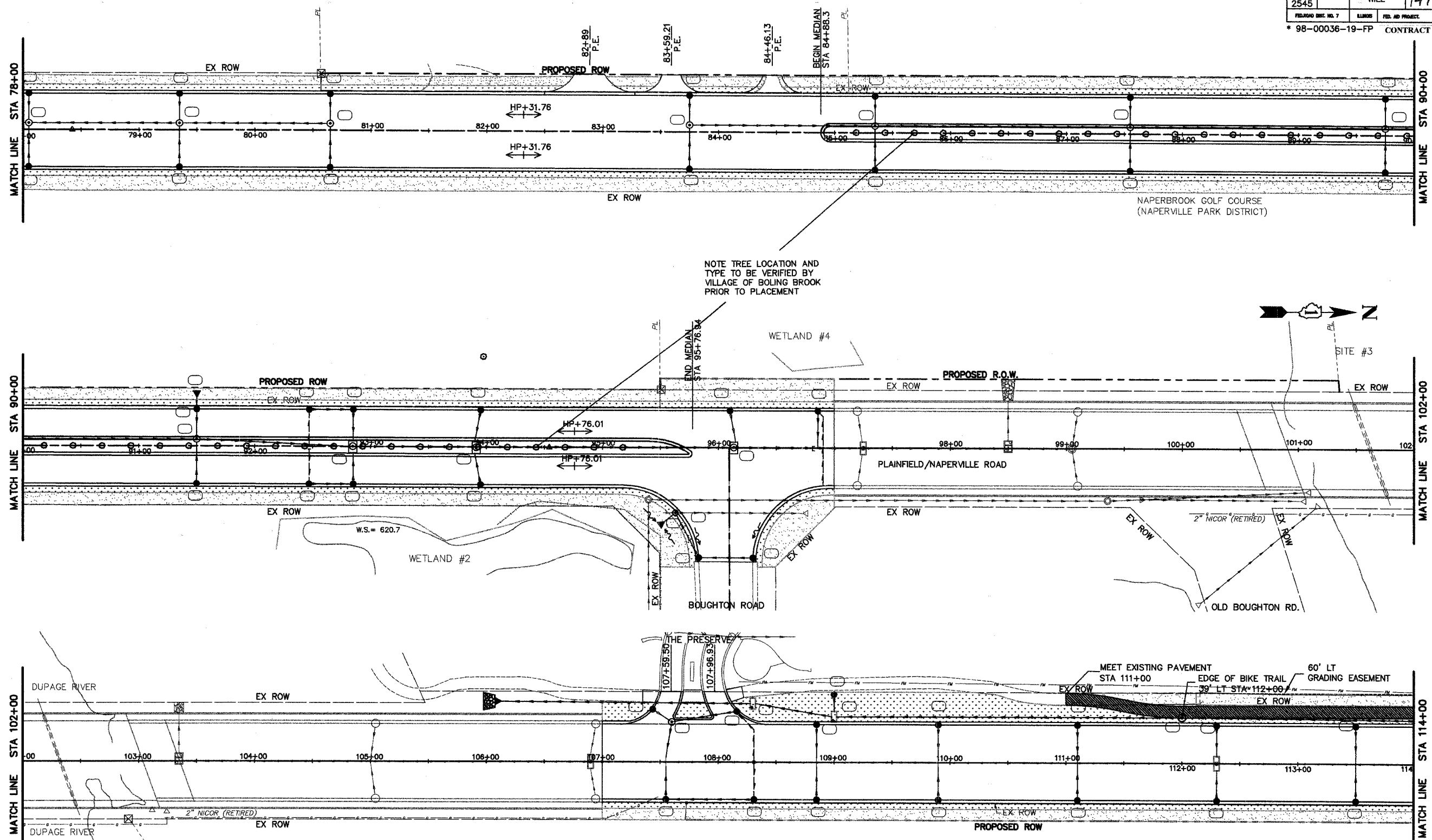
McDonough Associates Inc.
Engineers/Architects

DESIGNED BY: JTF
CHECKED BY: NJL
DRAWN BY: JTF

SCALE:
1" = 40'

P1
DRAWING ID: C:\20030023 - Plainfield-Naperville Road\dwg\LS1-4.dwg
PLOT DATE: 06/16/05 - 10:44

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	73
FED. ROAD DIST. NO. 7		BLANKS	FED. AID PROJECT	
* 98-00036-19-FP		CONTRACT NO. 83896		



NOTE TREE LOCATION AND TYPE TO BE VERIFIED BY VILLAGE OF BOLING BROOK PRIOR TO PLACEMENT



LEGEND

- SODDING SALT TOLERANT
- SEEDING CLASS 2A & EROSION CONTROL BLANKET
- STONE RIPRAP CLASS A5
- INLET & PIPE PROTECTION
- SEEDING CLASS 4A & EROSION CONTROL BLANKET

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 LANDSCAPING AND EROSION CONTROL PLAN
 STA 78+00 TO STA 114+00

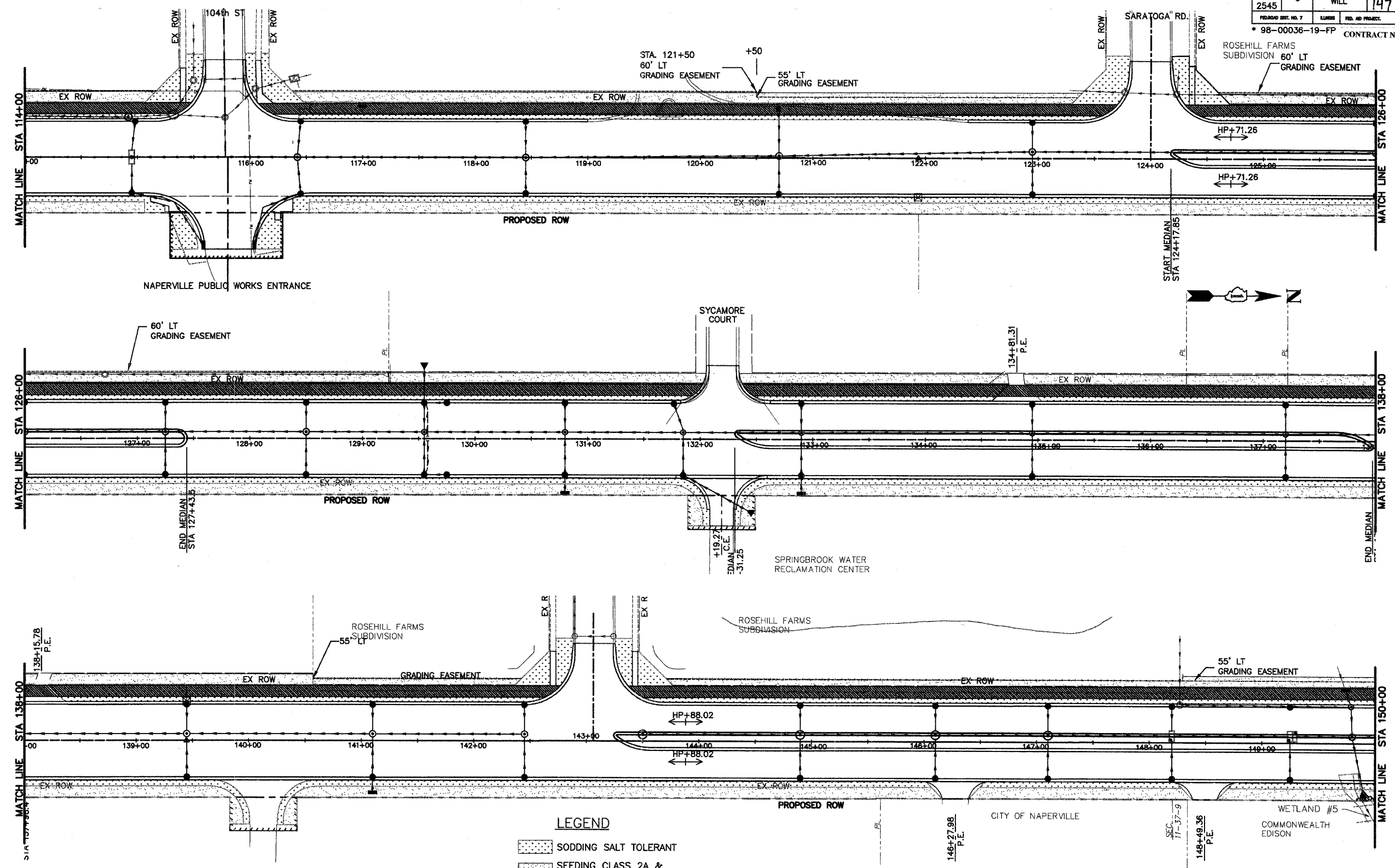
McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: JTF
 CHECKED BY: NJL
 DRAWN BY: JTF

SCALE:
 1" = 40'

P2
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\LS1-4.dwg
 PLOT DATE: 06/16/05 - 10:44

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	74
FEDERAL DIST. NO. 7 ILLINOIS FED. AID PROJECT				
* 98-00036-19-FP CONTRACT NO. 83896				



- LEGEND**
- SODDING SALT TOLERANT
 - SEEDING CLASS 2A & EROSION CONTROL BLANKET
 - STONE RIPRAP CLASS A5
 - INLET & PIPE PROTECTION
 - SEEDING CLASS 4A & EROSION CONTROL BLANKET

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 LANDSCAPING AND EROSION CONTROL PLAN
 STA 114+00 TO 150+00

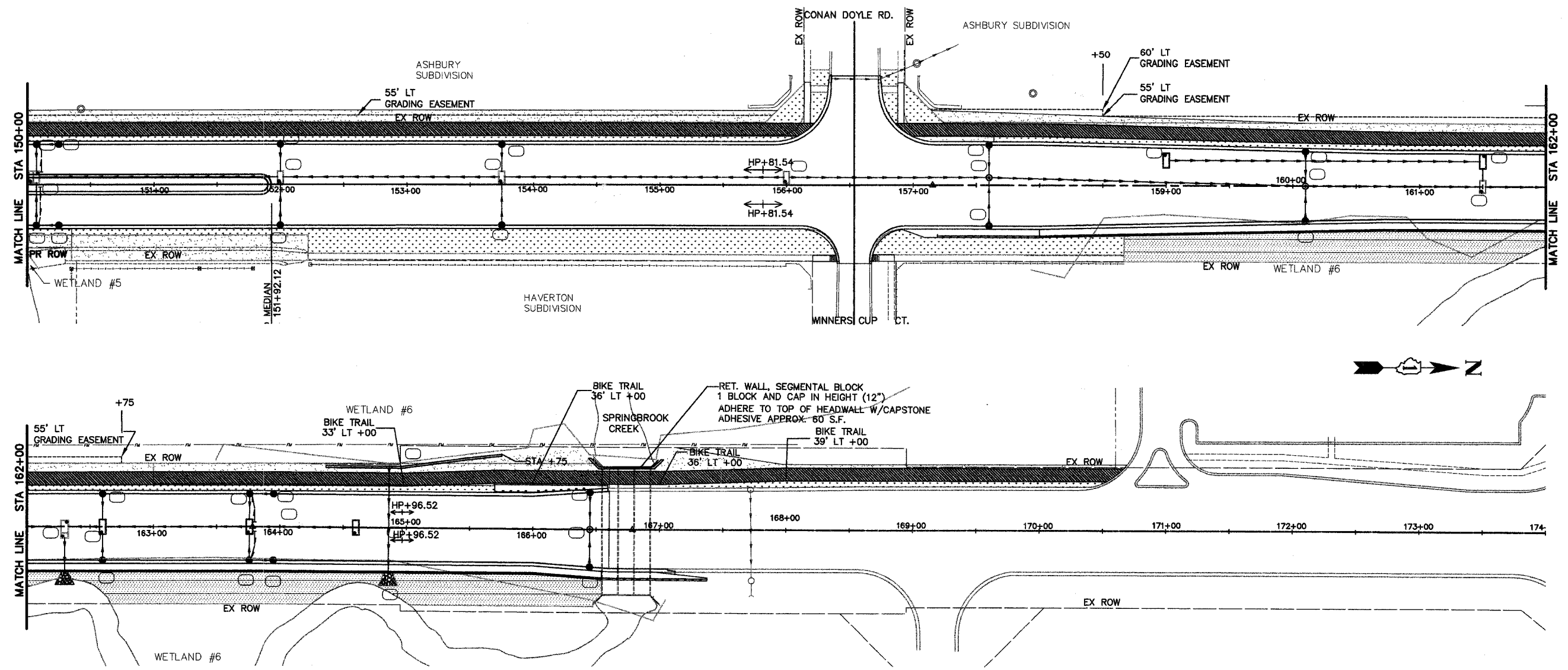
McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: JTF
 CHECKED BY: NUL
 DRAWN BY: JTF

SCALE:
 1" = 40'

P3
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\LS1-4.dwg
 PLOT DATE: 06/16/05 - 10:44

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	75
RELEASED DIST. NO. 7		BLANKS	PUB. AD PROJECT	
* 98-00036-19-FP CONTRACT NO. 83896				



LEGEND

- SODDING SALT TOLERANT
- SEEDING CLASS 2A & EROSION CONTROL BLANKET
- STONE RIPRAP CLASS A5
- INLET & PIPE PROTECTION
- SEEDING CLASS 4A & EROSION CONTROL BLANKET

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 LANDSCAPING AND EROSION CONTROL PLAN
 STA 150+00 TO 170+00

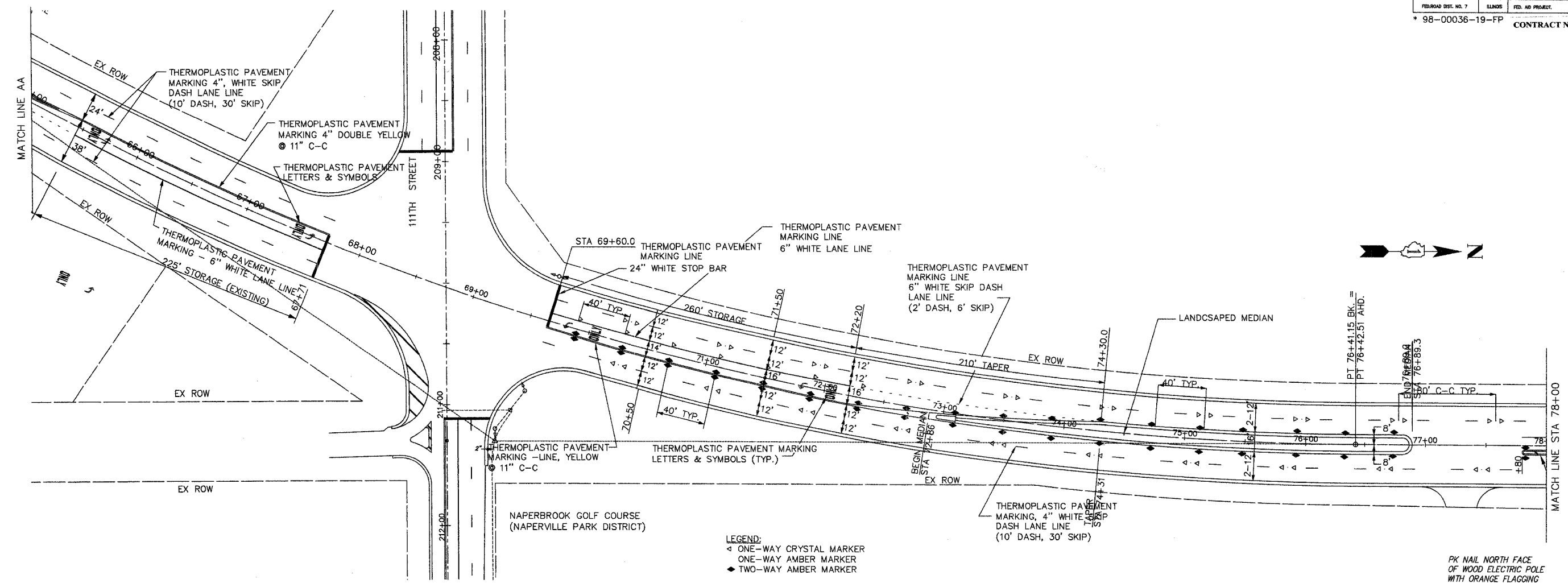
McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: JTF
 CHECKED BY: NJL
 DRAWN BY: JTF

SCALE:
 1" = 40'

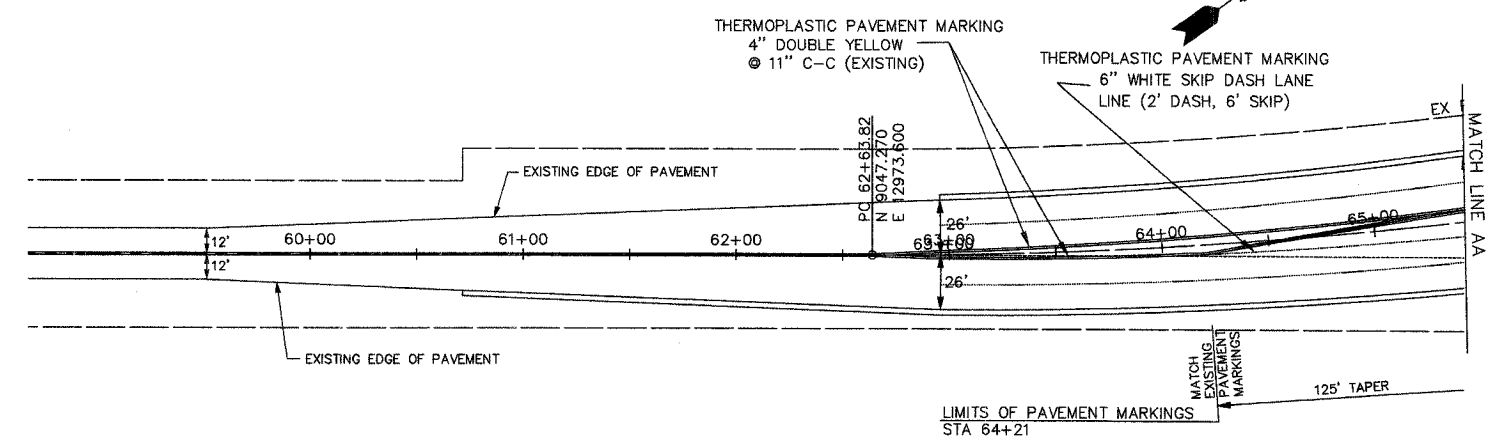
P4
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\LS1-4.dwg
 PLOT DATE: 06/16/05 - 10:44

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	76
FEDERAL DIST. NO. 7		BLANDS	FED. AID PROJECT	
* 98-00036-19-FP		CONTRACT NO. 83896		



LEGEND:
 ◁ ONE-WAY CRYSTAL MARKER
 ◁ ONE-WAY AMBER MARKER
 ◆ TWO-WAY AMBER MARKER

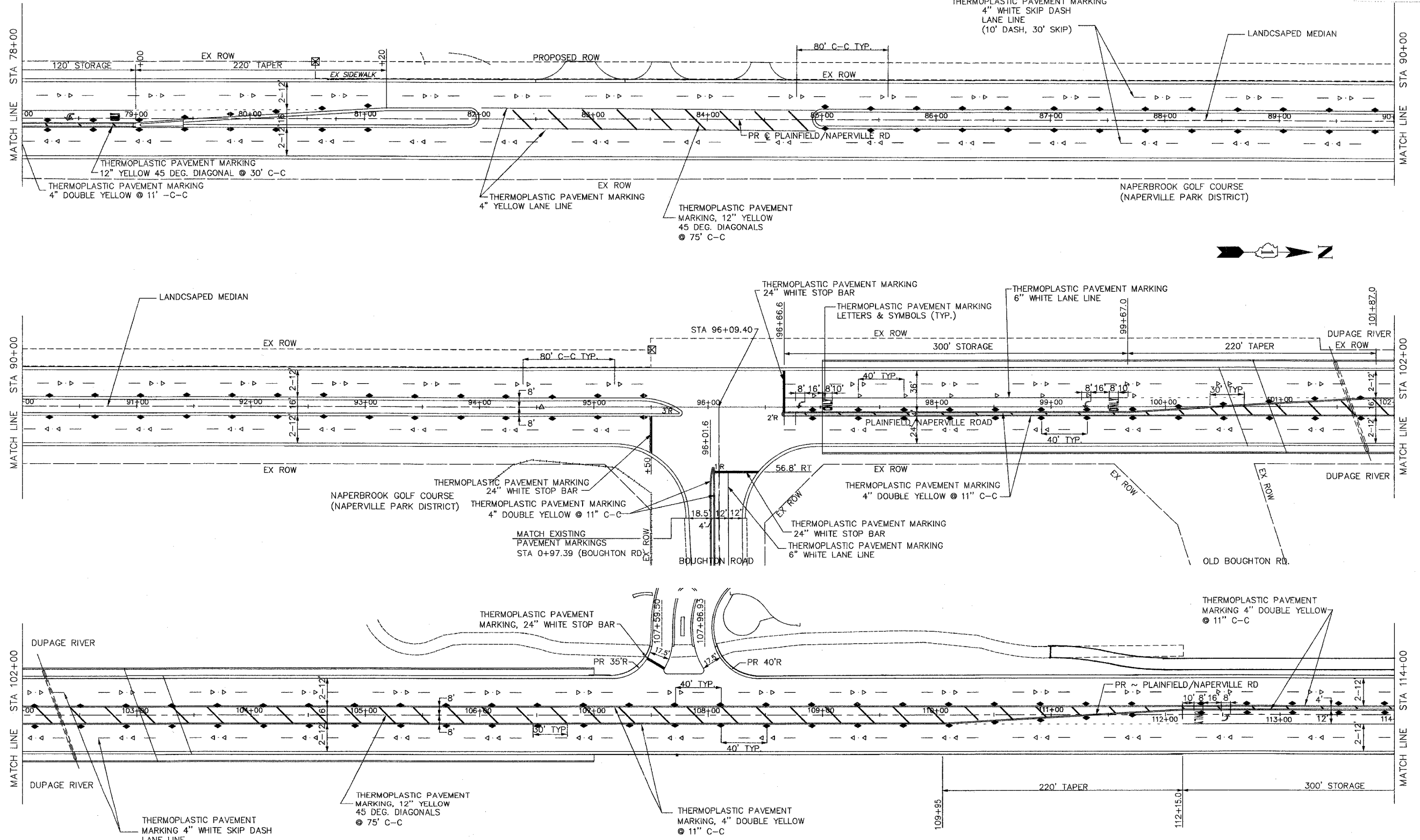
- NOTES:**
1. THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
 2. ALL RAISED REFLECTIVE PAVEMENT MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS, AND OFFSET 4 INCHES FROM THE CENTERLINE OF THE DASH.



P1 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\PM1-4-SWRC w grass median.dwg
 PLOT DATE: 06/16/05 - 10:52

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
FINAL PAVEMENT MARKING PLAN			
STA 60+00 TO STA 78+00			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: JTF CHECKED BY: NJL DRAWN BY: JTF	SCALE: 1" = 40'
NO.	DATE	REVISION	BY

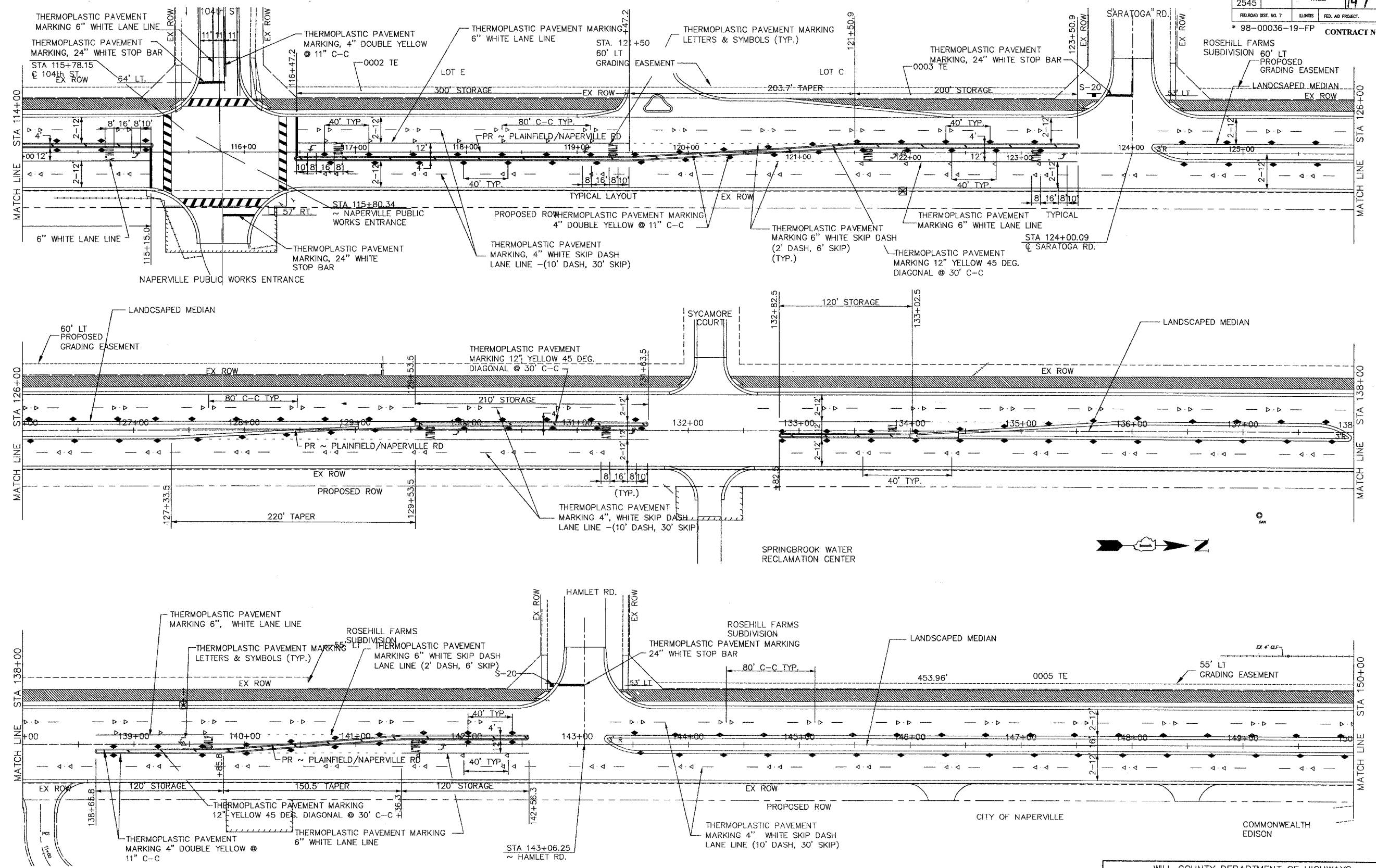
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	149	77
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* 98-00036-19-FP		CONTRACT NO. 83896		



P2
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\PM1-4-SWRC w gross median.dwg
 PLOT DATE: 06/16/05 - 10:52

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
FINAL PAVEMENT MARKING PLAN			
STA 78+00 TO STA 114+00			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: JTF CHECKED BY: N.J.L. DRAWN BY: JTF	SCALE: 1" = 40'
NO.	DATE	REVISION	BY

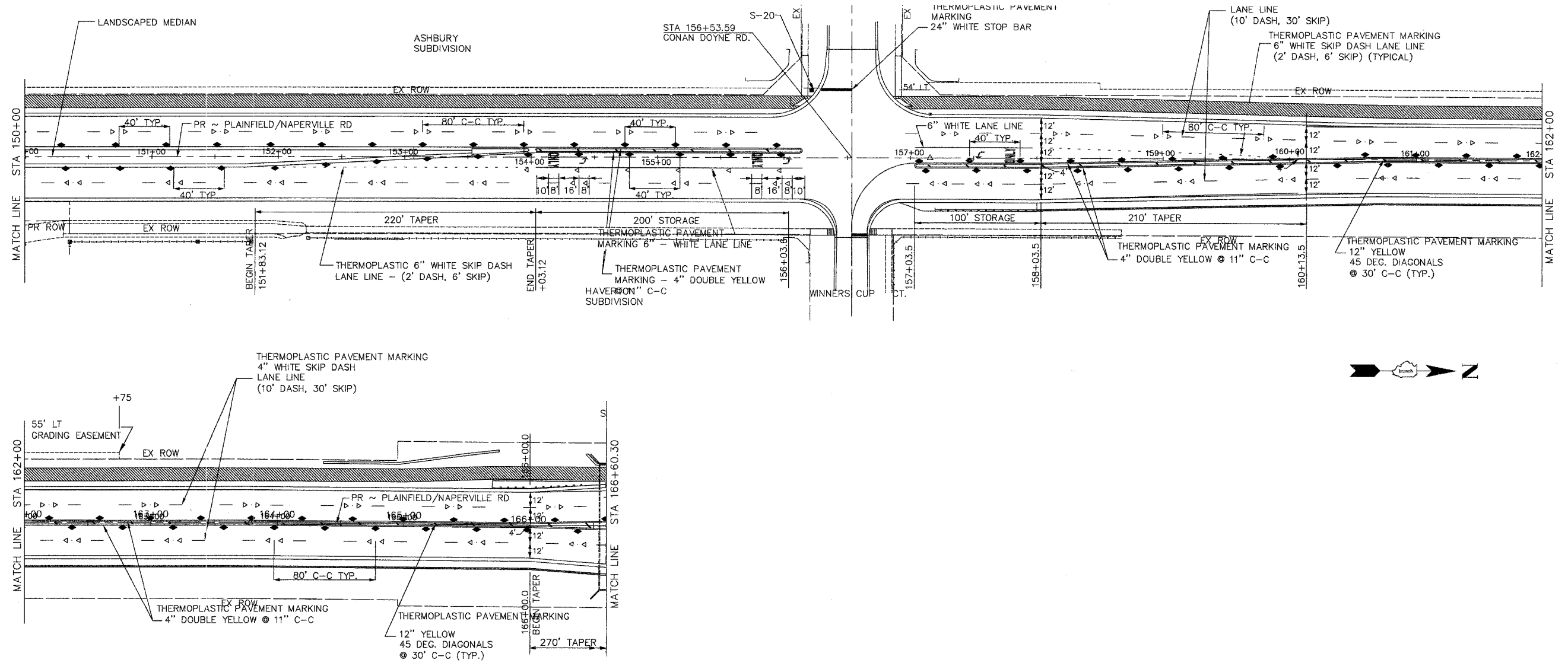
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	47	78
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* 98-00036-19-FP		CONTRACT NO. 83896		



P3
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\PM1-4-SWRC w gross median.dwg
 PLOT DATE: 06/16/05 - 10:52

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
FINAL PAVEMENT MARKING PLAN			
STA 114+00 TO 150+00			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: JTF CHECKED BY: NUL DRAWN BY: JTF	SCALE: 1" = 40'
NO.	DATE	REVISION	BY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	79
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
* 98-00036-19-FP			CONTRACT NO. 83896	



P4
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\PM1-4-SWRC w gross median.dwg
PLOT DATE: 06/16/05 - 10:52

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
FINAL PAVEMENT MARKING PLAN
STA 150+00 TO 166+60.30

McDonough Associates Inc.
Engineers/Architects

DESIGNED BY: JTF
CHECKED BY: NUL
DRAWN BY: JTF

SCALE:
1" = 40'

BENCHMARK: BM #55 APPROXIMATE STA 166+92.60, 49.0 LT @ PLAINFIELD-NAPERVILLE ROAD. CUT (O) ON WEST SIDE OF PLAINFIELD-NAPERVILLE ROAD ON NORTHEAST CORNER OF EXISTING TOP OF HEADWALL. EL 643.17

EXISTING STRUCTURE: NONE

DESIGN SPECIFICATIONS
2002 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES

DESIGN METHOD
LOAD FACTOR: STEM AND FOOTINGS
ALLOWABLE STRESS DESIGN: PILE LOADS

GENERAL NOTES

- DESIGN SPECIFICATIONS; 2002 AASHTO.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31, M42 OR M53 GRADE 60.
- THE BACK FACE OF RETAINING WALL SHALL BE WATERPROOFED ACCORDING TO ARTICLE 503.18 OF THE STANDARD SPECIFICATIONS.
- SEE SHEET S-02 FOR DETAILS OF PIPE UNDERDRAIN, GEOCOMPOSITE WALL DRAIN AND STRUCTURE EXCAVATION LIMITS.
- ANY DEWATERING NECESSARY DURING EXCAVATION SHALL BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST.

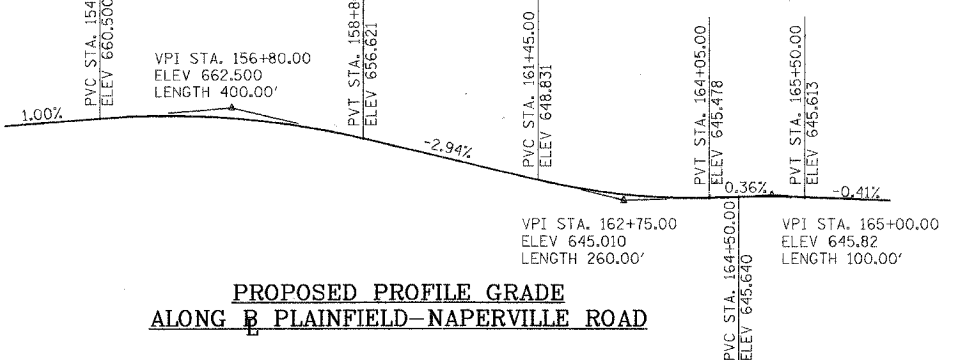
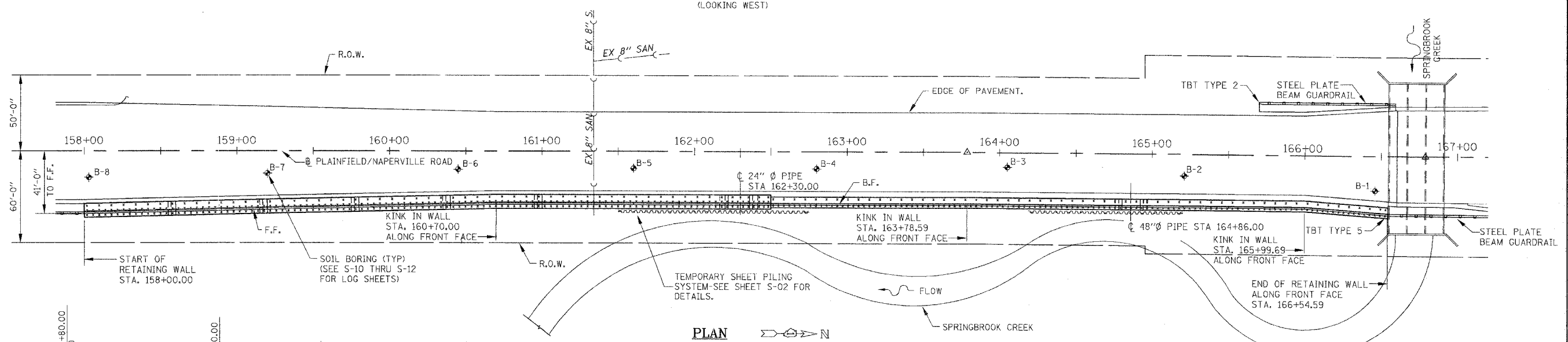
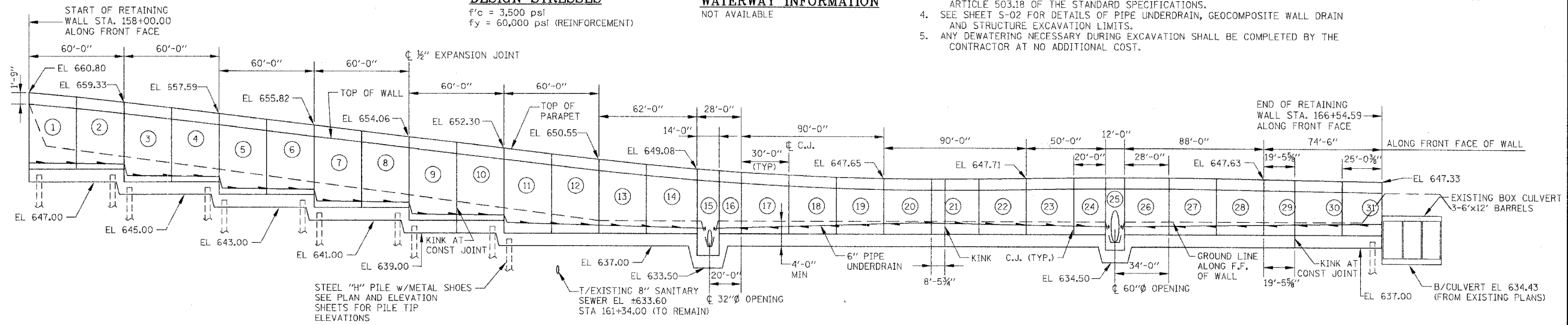
DESIGN STRESSES

$f'_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi (REINFORCEMENT)}$

WATERWAY INFORMATION

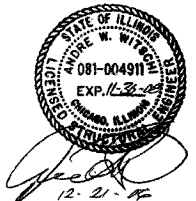
NOT AVAILABLE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	80
FEDERAL DIST. NO. 7			ILLINOIS	FED. AID PROJECT:
* 98-00036-19-FP			CONTRACT NO. 83896	



TOTAL BILL OF MATERIAL

ITEMS	UNIT	TOTAL
STRUCTURE EXCAVATION	CU YD	2,310
CONCRETE STRUCTURES	CU YD	917.3
REINFORCEMENT BARS, EPOXY COATED	POUND	96,050
ALUMINUM RAILING, TYPE L	FT	853
FURNISHING STEEL PILES HP10X42	FT	7,183.0
DRIVING STEEL PILES	FT	7,183.0
TEST PILE STEEL HP10X42	EA	4
METAL SHOES	EA	457
PIPE DRAINS 6"	FT	9
PIPE UNDERDRAINS FOR STRUCTURES 6"	FT	841
TEMPORARY SHEET PILING	SQ FT	2,673



I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS RETAINING WALL DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF THE STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

LEGEND
F.F. FRONT FACE OF WALL (7) INDICATES WALL PANEL
B.F. BACK FACE OF WALL
R.O.W. RIGHT OF WAY (O) INDICATES SOIL BORING
TEMPORARY SHEET PILING

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
RETAINING WALL
GENERAL PLAN AND ELEVATION

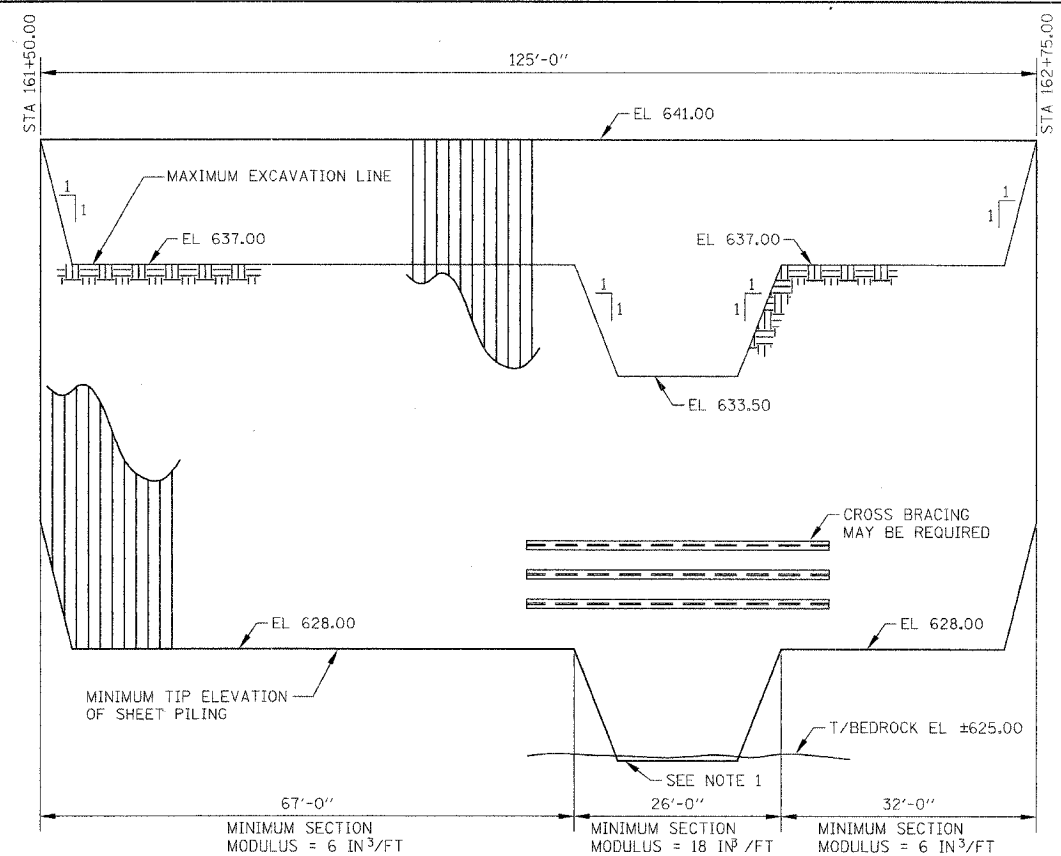
McDonough Associates Inc. Engineers/Architects
DESIGNED BY: JCE
CHECKED BY: AWW
DRAWN BY: JCE

SCALE: N.T.S.

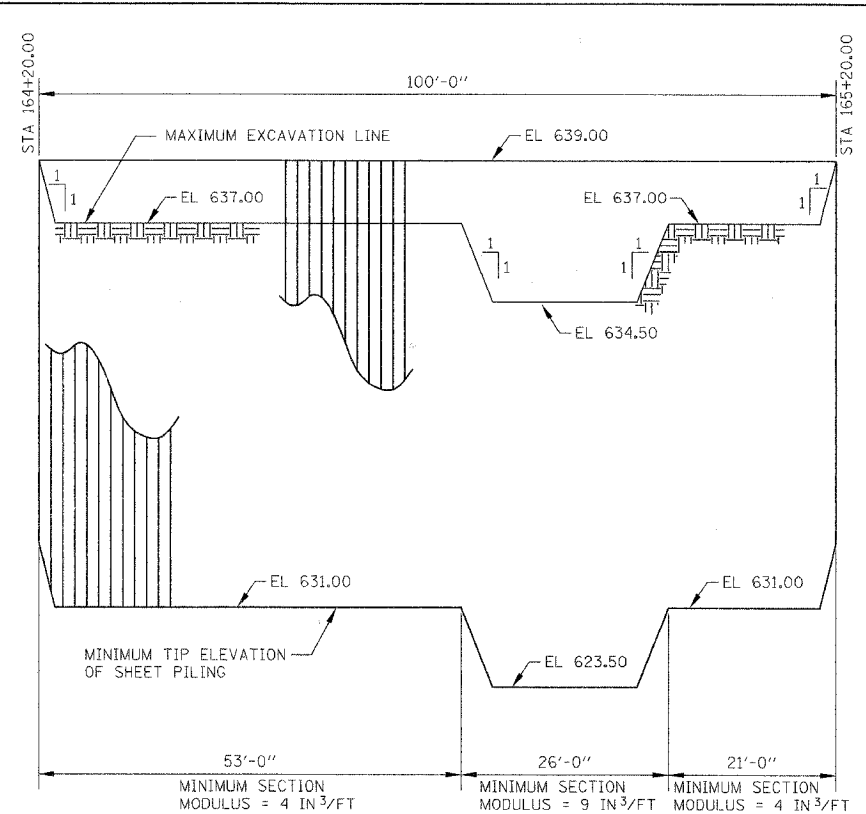
S-01

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	81
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* 98-00036-19-FP				

CONTRACT NO. 83896



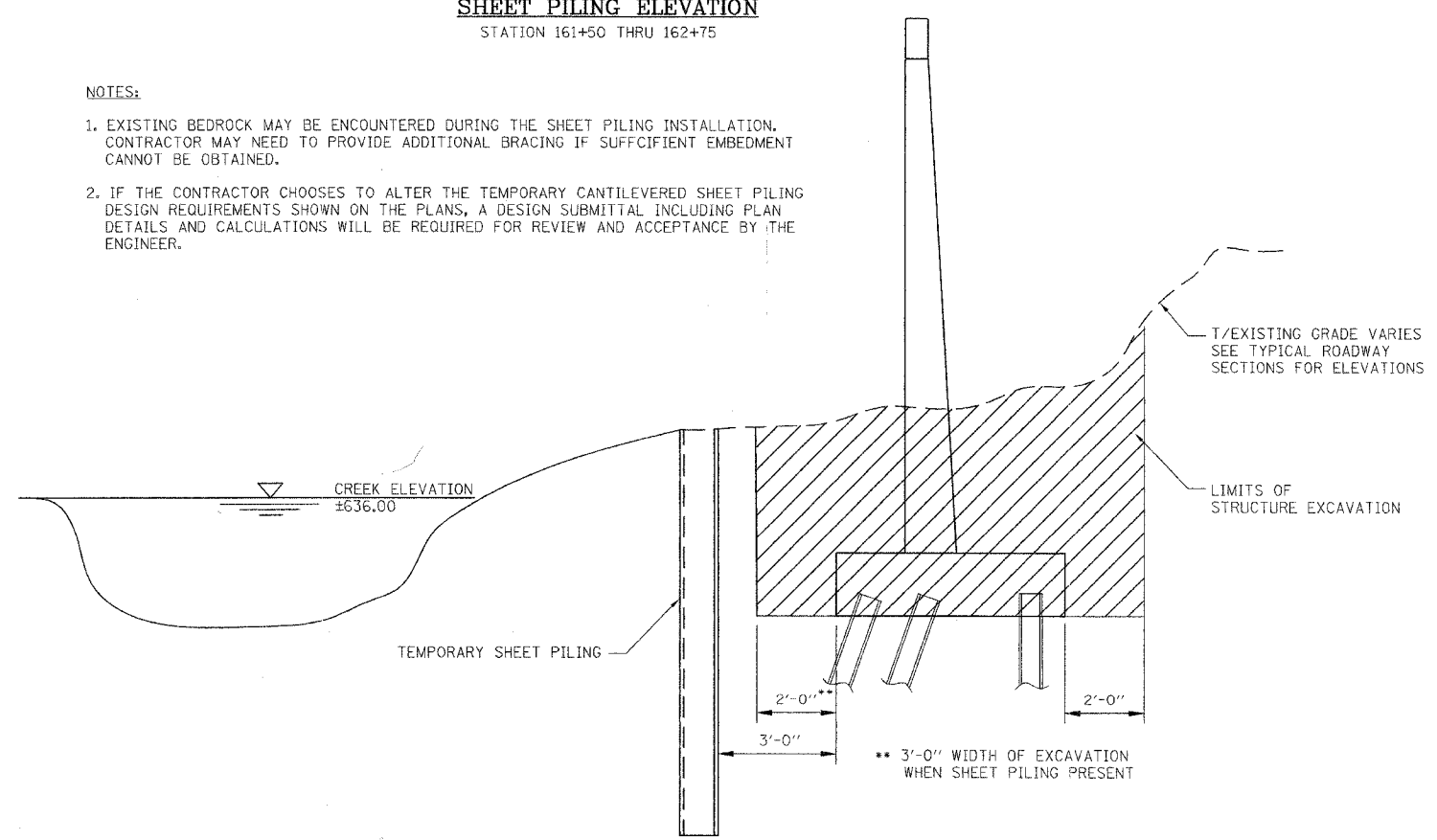
SHEET PILING ELEVATION
STATION 161+50 THRU 162+75



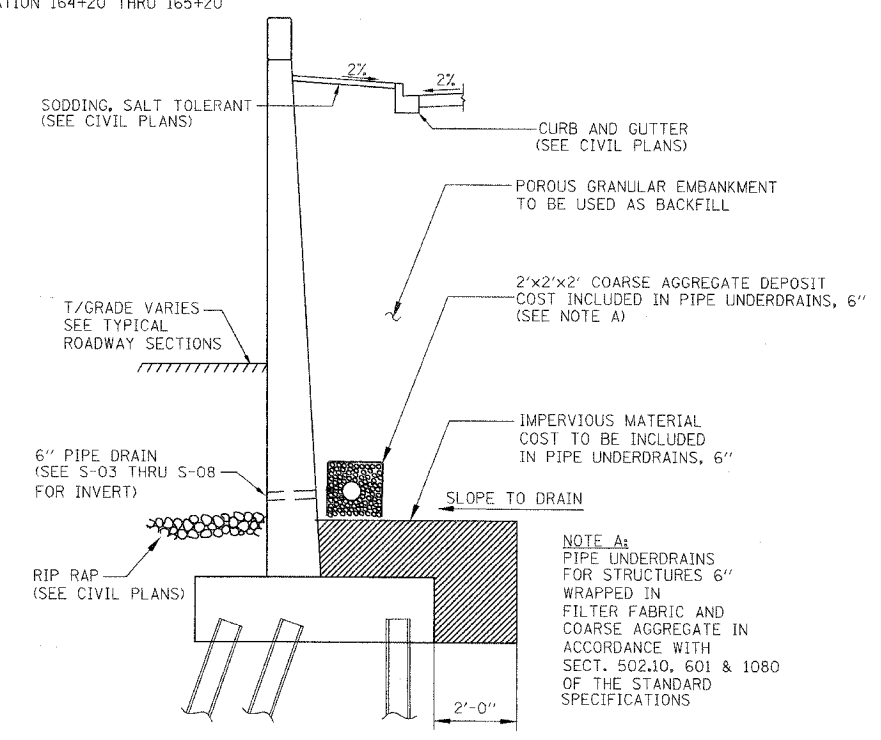
SHEET PILING ELEVATION
STATION 164+20 THRU 165+20

NOTES:

- EXISTING BEDROCK MAY BE ENCOUNTERED DURING THE SHEET PILING INSTALLATION. CONTRACTOR MAY NEED TO PROVIDE ADDITIONAL BRACING IF SUFFICIENT EMBEDMENT CANNOT BE OBTAINED.
- IF THE CONTRACTOR CHOOSES TO ALTER THE TEMPORARY CANTILEVERED SHEET PILING DESIGN REQUIREMENTS SHOWN ON THE PLANS, A DESIGN SUBMITTAL INCLUDING PLAN DETAILS AND CALCULATIONS WILL BE REQUIRED FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.



EXCAVATION SECTION



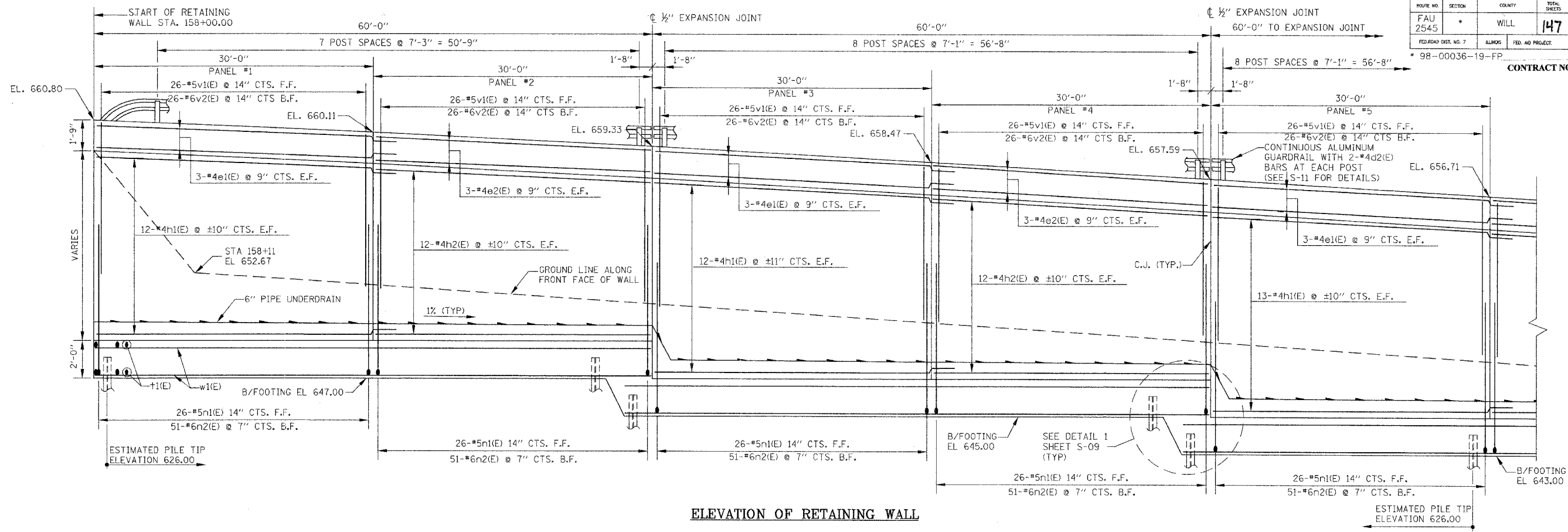
TYPICAL DRAINAGE SECTION

S-02

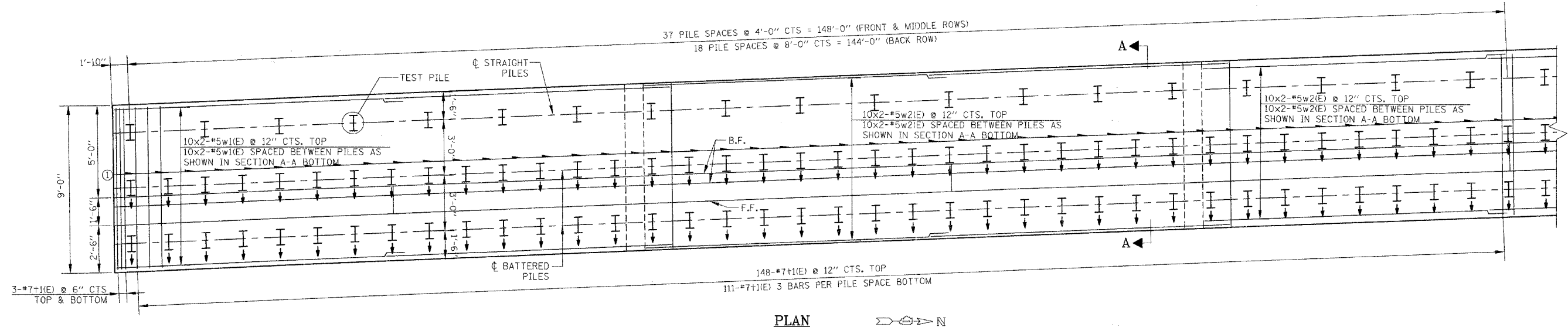
WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
RETAINING WALL			
TEMPORARY SHEET PILING AND DRAINAGE			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: JCE CHECKED BY: AWW DRAWN BY: JCE	SCALE: N.T.S.
NO.	DATE	REVISION	BY

DRAWING ID: H:\03023\STRUCT\DRAWING\DRAWING.DWG
PLOT DATE: 12/21/06 BY: jehart

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	82
FED. ROAD DIST. NO. 7		ALIGNS	FED. AID PROJECT	
* 98-00036-19-FP		CONTRACT NO. 83896		



ELEVATION OF RETAINING WALL



PLAN

PILE DATA

TYPE: STEEL H PILES (HP 10x42)
W/METAL SHOES
CAPACITY: 55 TONS (DRIVEN TO REFUSAL)
ESTIMATED LENGTH: VARIES - SEE ELEVATION VIEW FOR TIP ELEVATIONS
NUMBER REQ'D: 461 (INCLUDES 4 TEST PILES)

TEST PILES

(4) TEST PILES SHALL BE DRIVEN AT PERMANENT LOCATIONS AS INDICATED ON PLANS BEFORE ORDERING REMAINDER OF PILES.

PIPE UNDERDRAIN DATA:

① STATION 158+00
OFFSET 38.75 RT
INV 650.00

NOTES:

- FOR RETAINING WALL TYPICAL CROSS SECTIONS, SEE SHEET S-09.
- PILE TIP ELEVATIONS WILL VARY ALONG WALL. PILE LENGTHS SHOWN HAVE BEEN GROUPED BASED UPON COMMON TOP OF ROCK ELEVATIONS. PILES MAY NEED TO BE CUT TO OBTAIN CORRECT TOP OF PILE ELEVATION (INCLUDED WITH DRIVING STEEL PILES).

LEGEND

- F.F. FRONT FACE OF WALL
- B.F. BACK FACE OF WALL
- R.O.W. RIGHT OF WAY
- VERTICAL PILE
- BATTERED PILE

NO.	DATE	REVISION	BY

S-03

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
RETAINING WALL
PLAN AND ELEVATION

McDonough Associates Inc.
Engineers/Architects

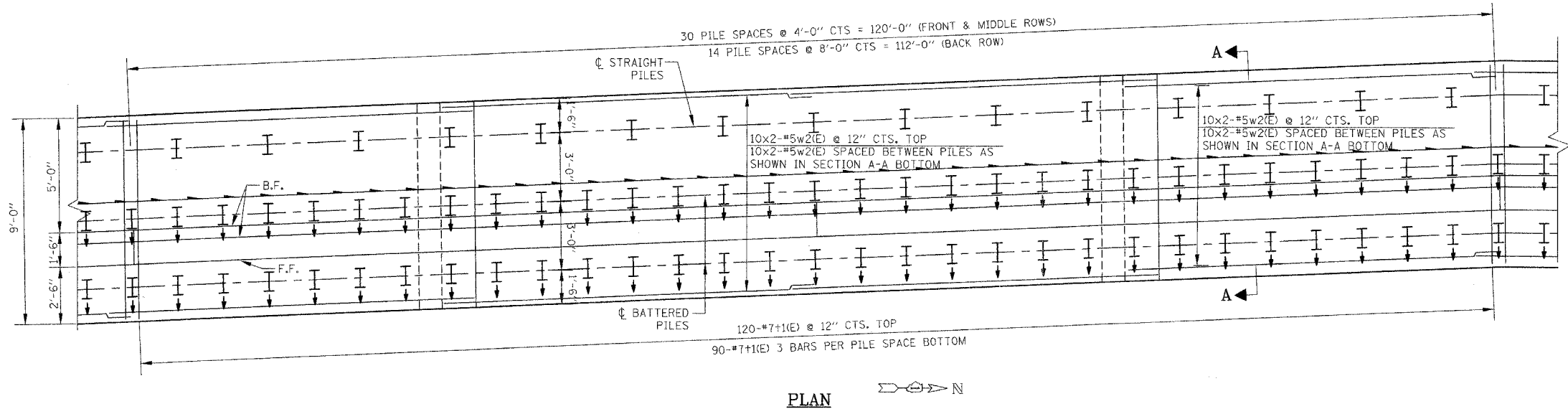
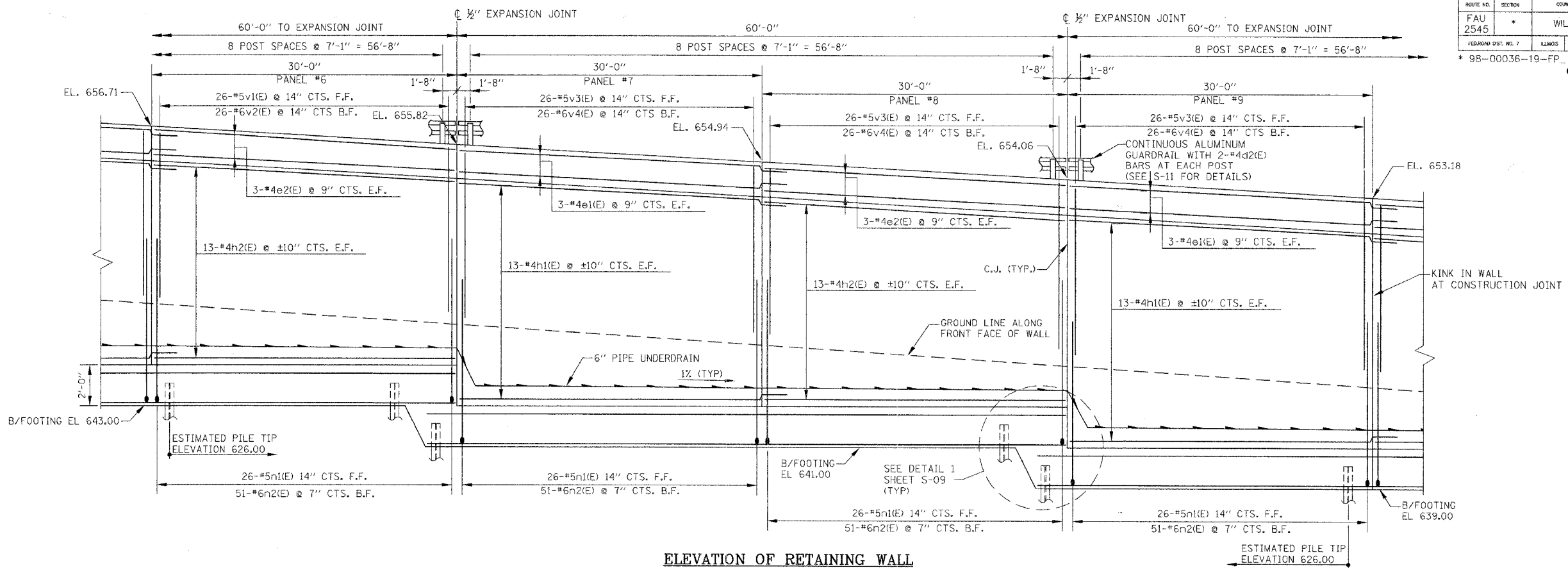
DESIGNED BY: JCE
CHECKED BY: AWW
DRAWN BY: JCE

SCALE:
N.T.S.

DRAWING ID: H:\03023\STRUCT\SI-S7 PLAN AND ELEVATION.DWG
PLOT DATE: 12/21/06 - 17:27 BY: jehhort

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	83
FEDERAL DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* 98-00036-19-FP				

CONTRACT NO. 83896



- NOTES:**
- FOR RETAINING WALL TYPICAL CROSS SECTIONS, SEE SHEET S-09.
 - PILE TIP ELEVATIONS WILL VARY ALONG WALL, PILE LENGTHS SHOWN HAVE BEEN GROUPED BASED UPON COMMON TOP OF ROCK ELEVATIONS. PILES MAY NEED TO BE CUT TO OBTAIN CORRECT TOP OF PILE ELEVATION (INCLUDED WITH DRIVING STEEL PILES).

- LEGEND**
- F.F. FRONT FACE OF WALL
 - B.F. BACK FACE OF WALL
 - R.O.W. RIGHT OF WAY
 - VERTICAL PILE
 - BATTERED PILE

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
RETAINING WALL
PLAN AND ELEVATION

McDonough Associates Inc.
Engineers/Architects

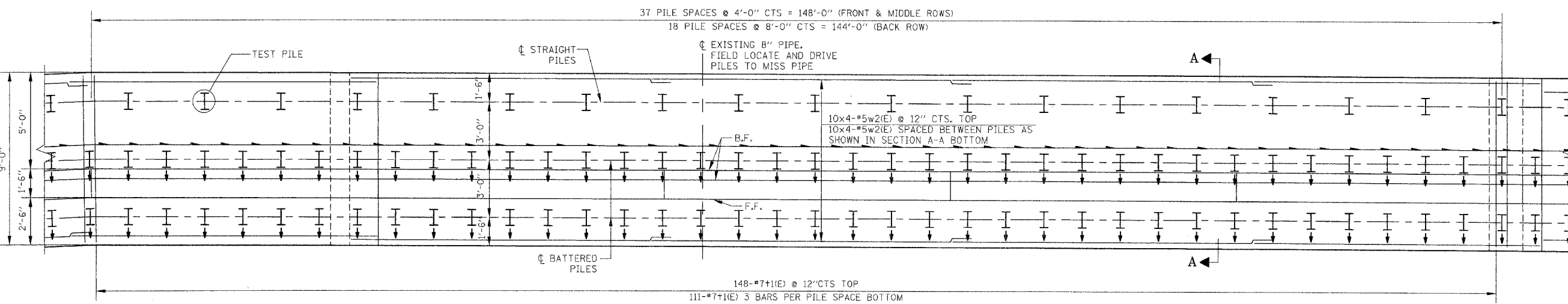
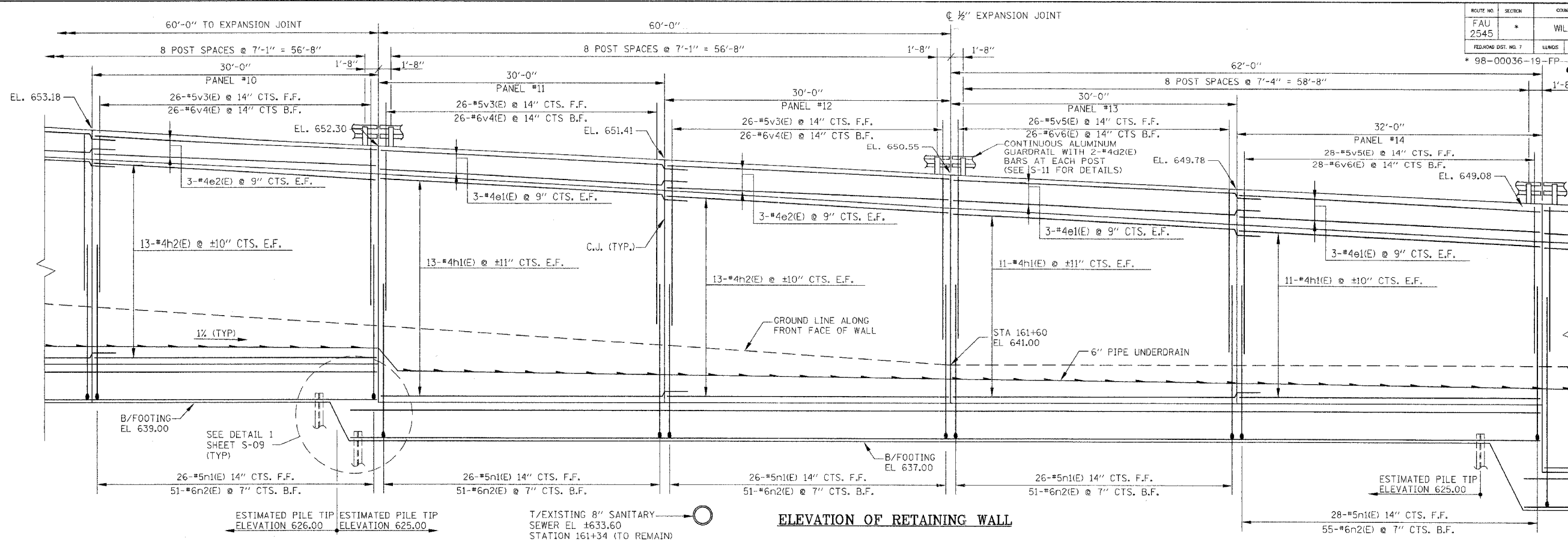
DESIGNED BY: JCE
CHECKED BY:
DRAWN BY: JCE

SCALE: N.T.S.

DRAWING ID: H:\03023\STRUCT\SI-S7 PLAN AND ELEVATION.DWG
PLOT DATE: 02/05/04 17:27 BY jehrhart

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	84
FED. ROAD DIST. NO. 7	ALLEGES	FED. AID PROJECT		

* 98-00036-19-FP CONTRACT NO. 83896



- NOTES:**
- FOR RETAINING WALL TYPICAL CROSS SECTIONS, SEE SHEET S-09.
 - PILE TIP ELEVATIONS WILL VARY ALONG WALL. PILE LENGTHS SHOWN HAVE BEEN GROUPED BASED UPON COMMON TOP OF ROCK ELEVATIONS. PILES MAY NEED TO BE CUT TO OBTAIN CORRECT TOP OF PILE ELEVATION (INCLUDED WITH DRIVING STEEL PILES).

- LEGEND**
- | | | | |
|--------|--------------------|---|---------------|
| F.F. | FRONT FACE OF WALL | I | VERTICAL PILE |
| B.F. | BACK FACE OF WALL | I | BATTERED PILE |
| R.O.W. | RIGHT OF WAY | | |

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
RETAINING WALL
PLAN AND ELEVATION

DESIGNED BY: JCE
CHECKED BY: ANW
DRAWN BY: JCE

SCALE: N.T.S.

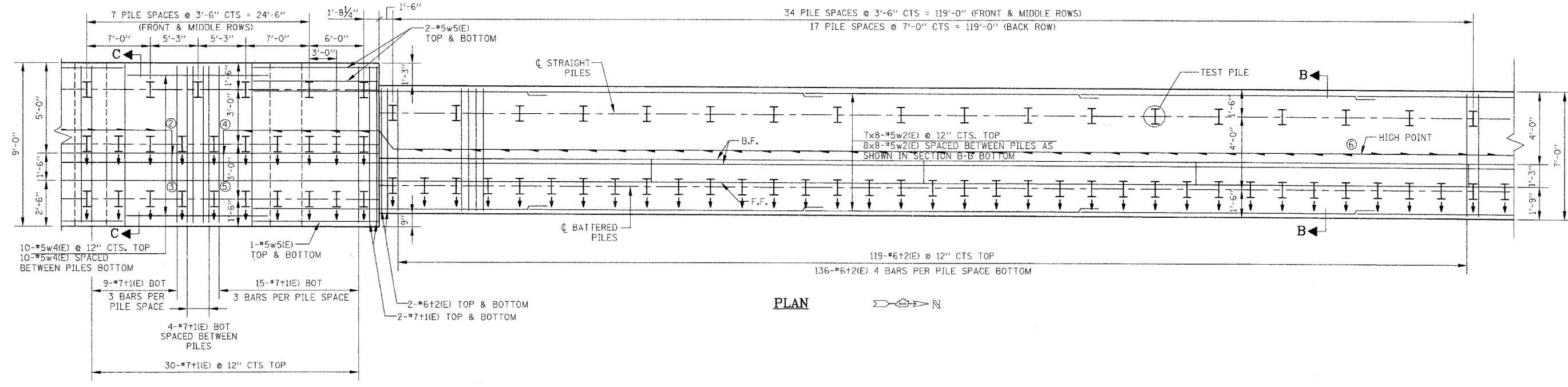
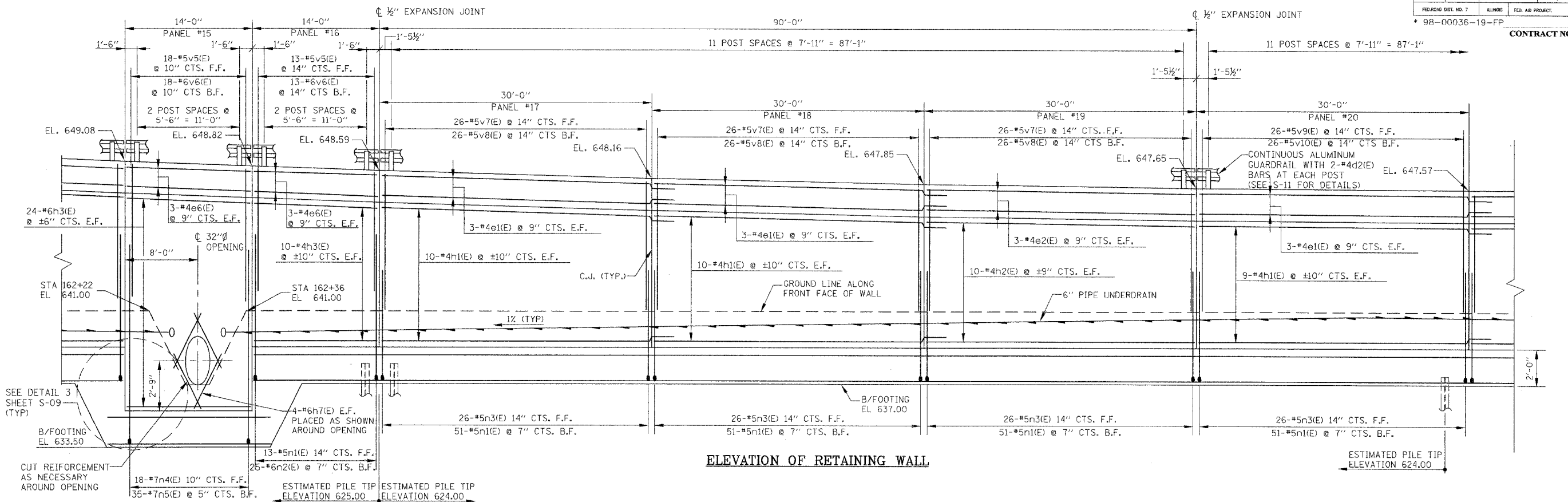
McDonough Associates Inc.
Engineers/Architects

DRAWING ID: 0
PLOT DATE: 0

S-05

ROUTE NO. FAU 2545	SECTION *	COUNTY WILL	TOTAL SHEETS 147	SHEET NO. 85
FEDERAL DIST. NO. 7		ALMOS	FED. AID PROJECT	
* 98-00036-19-FP				

CONTRACT NO. 83896



PIPE UNDERDRAIN DATA

② STATION 162+27.19 OFFSET 32.25 RT INVERT 639.50	④ STATION 162+32.85 OFFSET 32.25 RT INVERT 639.50	⑥ STATION 163+58.27 OFFSET 33.25 RT INVERT 640.75
③ STATION 162+27.19 OFFSET 35.00 RT INVERT 639.25	⑤ STATION 162+32.85 OFFSET 35.00 RT INVERT 639.25	

NOTES:

- FOR RETAINING WALL TYPICAL CROSS SECTIONS, SEE SHEET S-09.
- PILE TIP ELEVATIONS WILL VARY ALONG WALL. PILE LENGTHS SHOWN HAVE BEEN GROUPED BASED UPON COMMON TOP OF ROCK ELEVATIONS. PILES MAY NEED TO BE CUT TO OBTAIN CORRECT TOP OF PILE ELEVATION (INCLUDED WITH DRIVING STEEL PILES).

LEGEND

F.F.	FRONT FACE OF WALL	I	VERTICAL PILE
B.F.	BACK FACE OF WALL	I	BATTERED PILE
R.O.W.	RIGHT OF WAY		

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
RETAINING WALL
PLAN AND ELEVATION

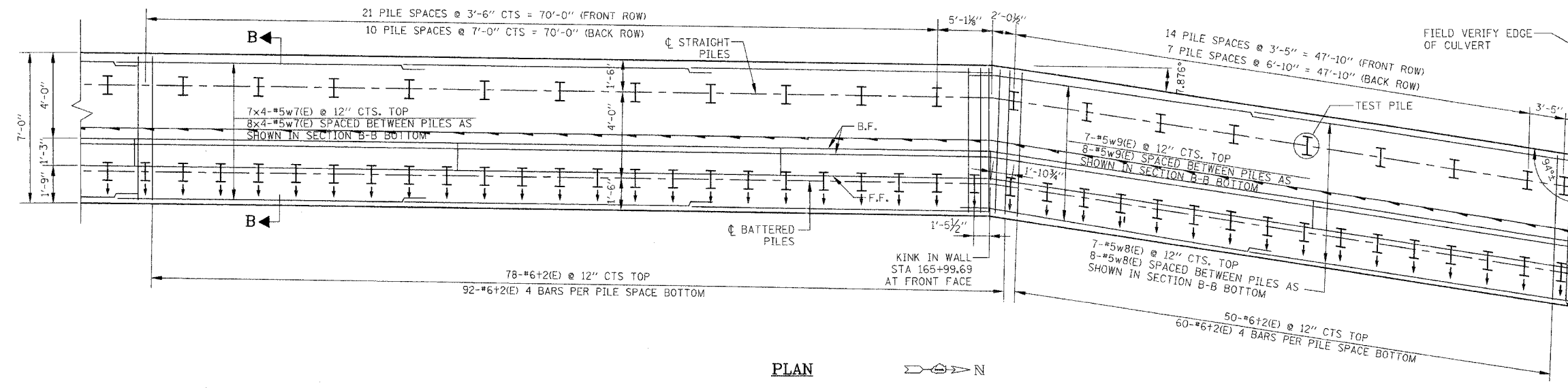
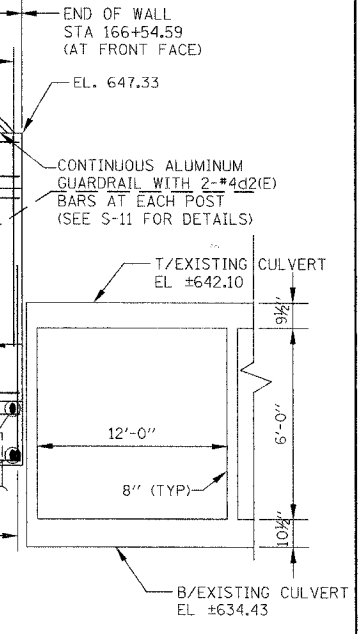
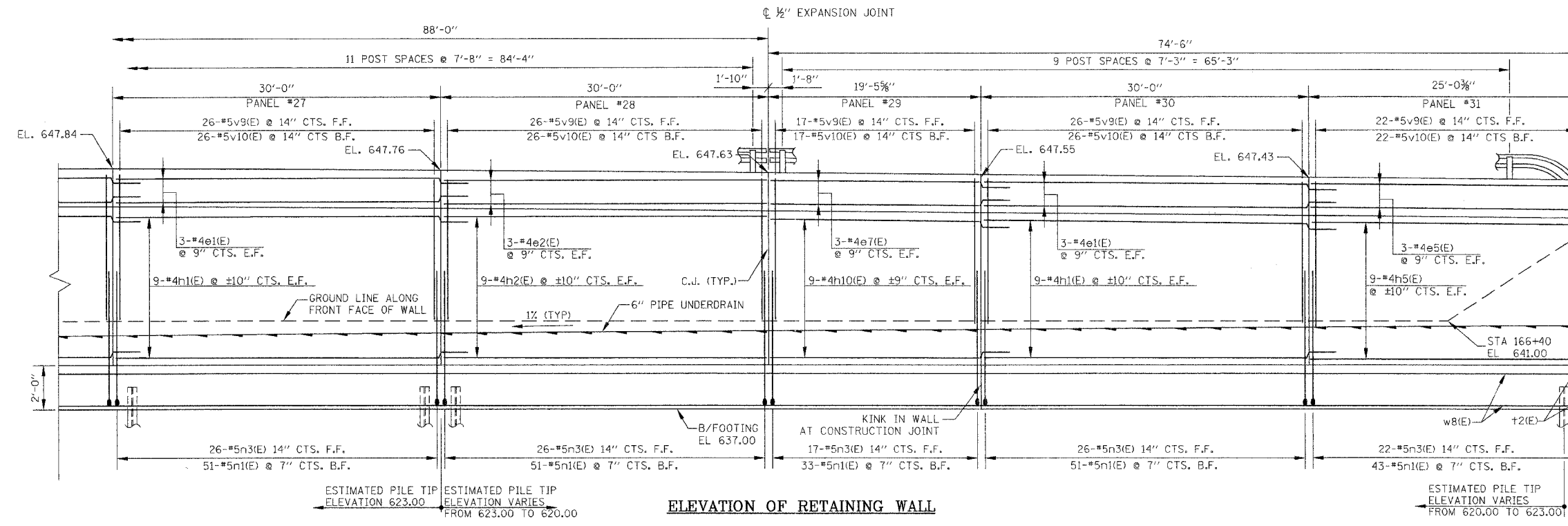
McDonough Associates Inc.
Engineers/Architects

DESIGNED BY: JCE
CHECKED BY: AWW
DRAWN BY: JCE

SCALE:
N.T.S.

DRAWING ID: H:\03023\STRUCT\1-S7 PLAN AND ELEVATION.DWG
PLOT DATE: 12/21/06 BY: jehhort

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	87
FED. ROAD DIST. NO. 7		KILGORS	FED. AID PROJECT	
98-00036-19-FP		CONTRACT NO. 83896		



- NOTES:**
- FOR RETAINING WALL TYPICAL CROSS SECTIONS, SEE SHEET S-09.
 - PILE TIP ELEVATIONS WILL VARY ALONG WALL. PILE LENGTHS SHOWN HAVE BEEN GROUPED BASED UPON COMMON TOP OF ROCK ELEVATIONS. PILES MAY NEED TO BE CUT TO OBTAIN CORRECT TOP OF PILE ELEVATION (INCLUDED WITH DRIVING STEEL PILES).

LEGEND

F.F.	FRONT FACE OF WALL	I	VERTICAL PILE
B.F.	BACK FACE OF WALL	I	BATTERED PILE
R.O.W.	RIGHT OF WAY		

PIPE UNDERDRAIN DATA

①	STATION 166+54.38
	OFFSET 36.79 RT
	INVERT 641.10

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)

ROADWAY RECONSTRUCTION

RETAINING WALL

PLAN AND ELEVATION

McDonough Associates Inc.
Engineers/Architects

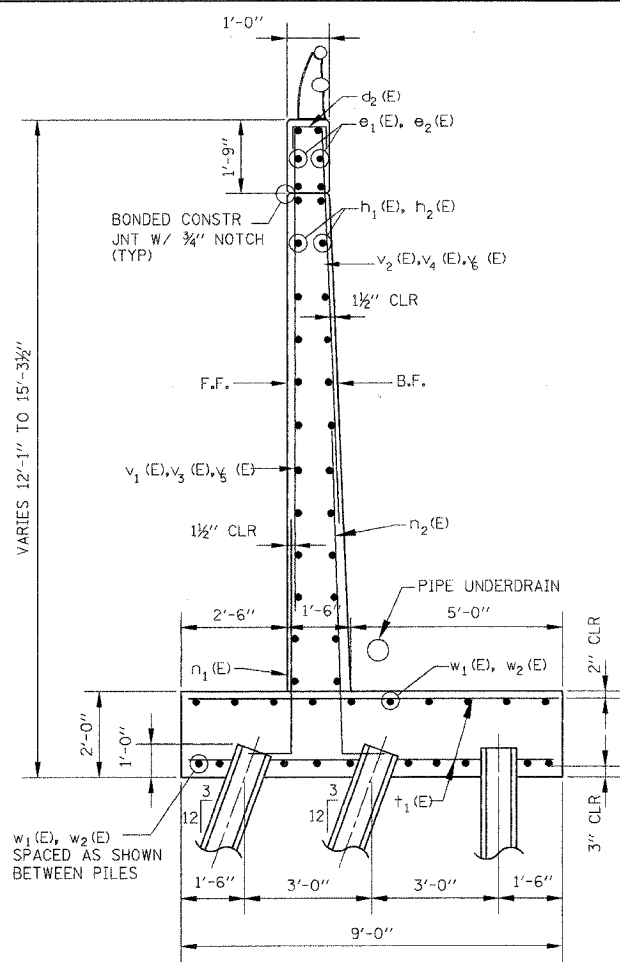
DESIGNED BY: JCE
CHECKED BY: AWW
DRAWN BY: JCE

SCALE: N.T.S.

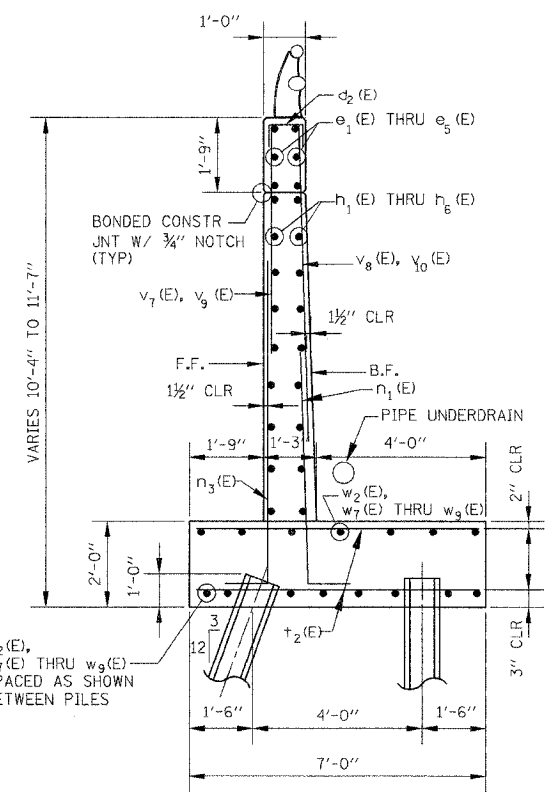
DRAWING ID: H:\03023\STRUCT\1-S7 PLAN AND ELEVATION.DWG
PLOT DATE: 12/21/06 - BY jehhart

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	88
FIELD NO. DIST. NO. 7		LRMS	FEL. AG. PROJECT.	
98-00036-19-FP				

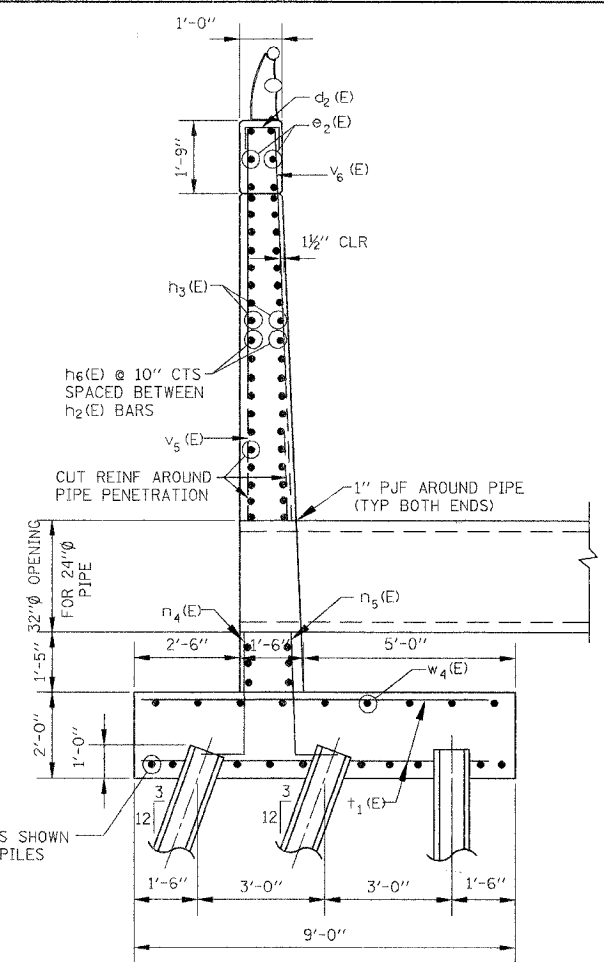
CONTRACT NO. 83896



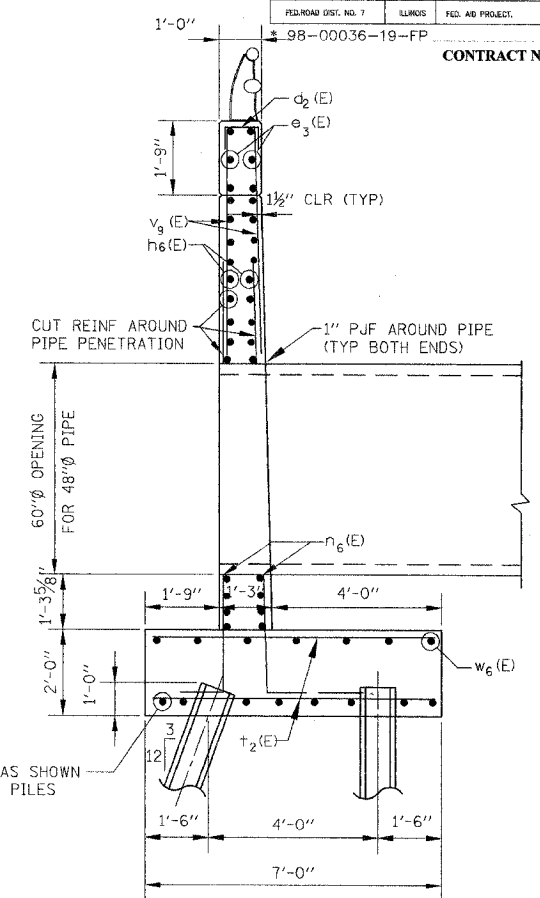
TYPICAL SECTION A-A
PANEL #1 THRU PANEL #15



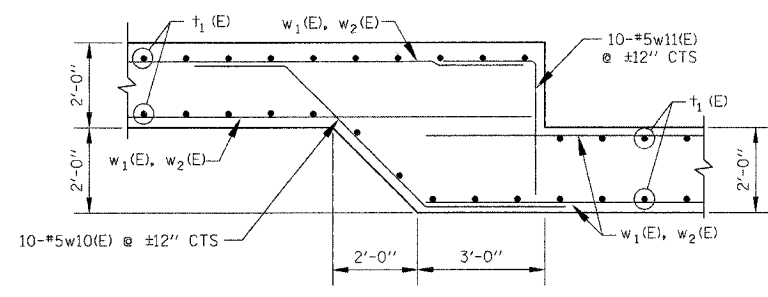
TYPICAL SECTION B-B
PANEL #16 THRU PANEL #30



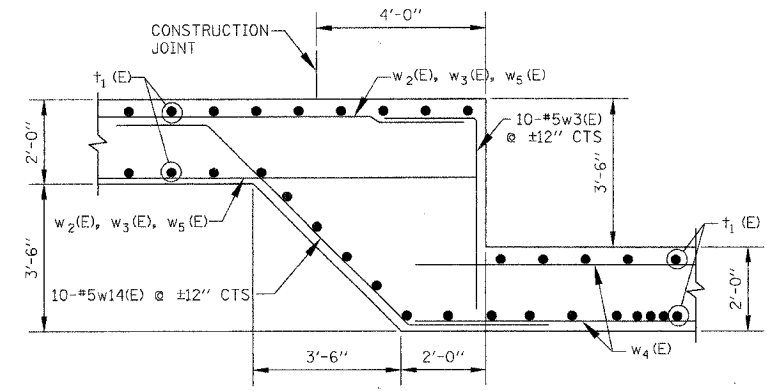
SECTION C-C



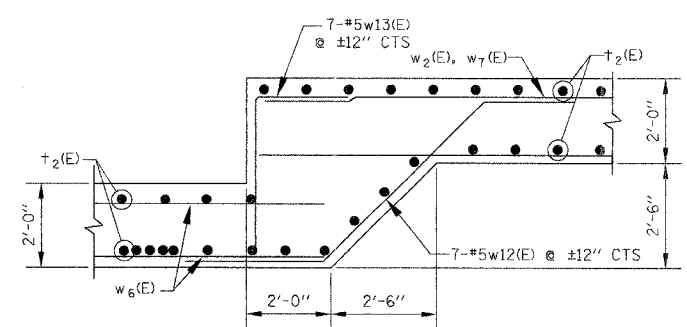
SECTION D-D



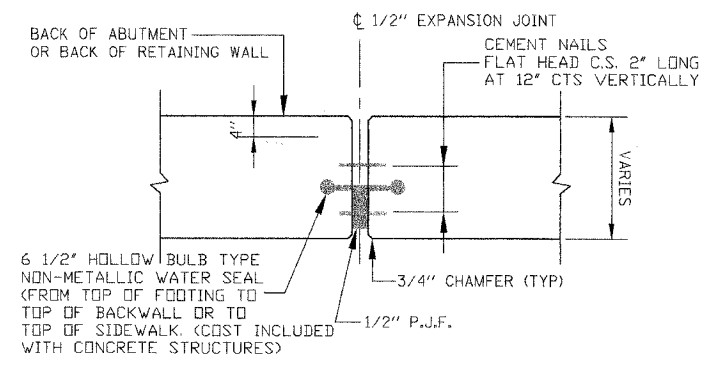
DETAIL 1
(5 LOCATIONS)



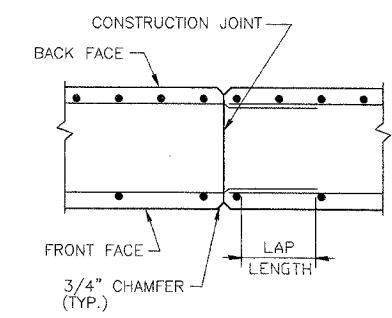
DETAIL 3
(2 LOCATIONS)



DETAIL 4
(2 LOCATIONS)



EXPANSION JOINT DETAIL
SCALE: N.T.S.



CONSTRUCTION JOINT DETAIL
SCALE: N.T.S.

NOTES:
REINFORCEMENT DESIGNATED (E) SHALL BE EPOXY COATED.

S-09

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
RETAINING WALL
SECTION AND DETAILS

McDonough Associates Inc.
Engineers/Architects

DESIGNED BY: JCE
CHECKED BY: AWW
DRAWN BY: JCE

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	89
FEDERAL DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

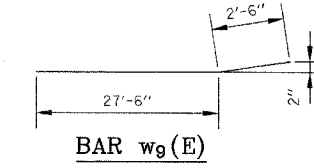
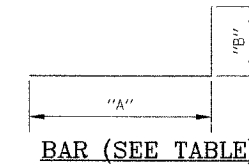
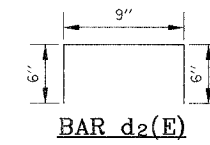
* 98-00036-19-FP

CONTRACT NO. 83896

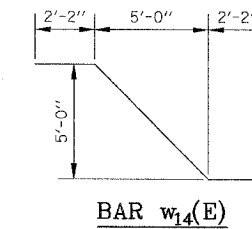
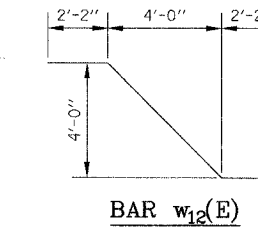
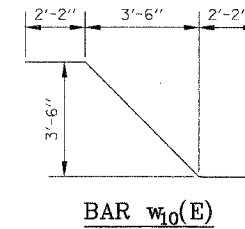
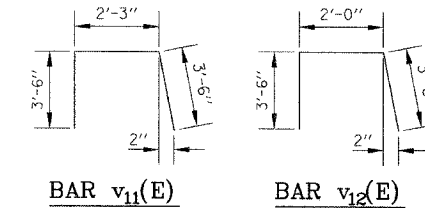
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
d ₂ (E)	126	#4	1'-9"	□
e ₁ (E)	90	#4	31'-9"	—
e ₂ (E)	60	#4	29'-9"	—
e ₃ (E)	6	#4	11'-9"	—
e ₄ (E)	6	#4	19'-9"	—
e ₅ (E)	6	#4	14'-3"	—
e ₆ (E)	12	#4	13'-9"	—
e ₇ (E)	6	#4	19'-2"	—
h ₁ (E)	326	#4	31'-9"	—
h ₂ (E)	226	#4	29'-9"	—
h ₃ (E)	68	#4	13'-9"	—
h ₄ (E)	18	#4	19'-9"	—
h ₅ (E)	18	#4	14'-3"	—
h ₆ (E)	44	#6	11'-9"	—
h ₇ (E)	8	#6	4'-3"	—
h ₈ (E)	8	#6	7'-0"	—
h ₉ (E)	18	#4	19'-2"	—
n ₁ (E)	1,049	#5	6'-7"	—
n ₂ (E)	743	e	9'-0"	—
n ₃ (E)	342	#5	8'-10"	—
n ₄ (E)	18	#7	10'-2"	—
n ₅ (E)	35	#7	11'-10"	—
n ₆ (E)	58	#7	15'-2"	—
t ₁ (E)	796	#7	8'-8"	—
t ₂ (E)	866	#6	6'-8"	—
v ₁ (E)	156	#5	10'-6"	—
v ₂ (E)	156	#6	8'-10"	—
v ₃ (E)	156	#5	11'-5"	—
v ₄ (E)	156	#6	9'-9"	—
v ₅ (E)	85	#5	9'-7"	—
v ₆ (E)	85	#6	7'-11"	—
v ₇ (E)	78	#5	5'-6"	—
v ₈ (E)	78	#5	7'-7"	—
v ₉ (E)	322	#5	4'-9"	—
v ₁₀ (E)	264	#5	6'-11"	—

BAR	NO.	SIZE	LENGTH	SHAPE
w ₁ (E)	40	#5	31'-0"	—
w ₂ (E)	360	#5	32'-6"	—
w ₃ (E)	20	#5	7'-0"	┘
w ₄ (E)	20	#5	17'-9"	—
w ₅ (E)	6	#5	13'-9"	—
w ₆ (E)	15	#5	15'-9"	—
w ₇ (E)	60	#5	28'-9"	—
w ₈ (E)	15	#5	29'-9"	—
w ₉ (E)	15	#5	30'-0"	—
w ₁₀ (E)	50	#5	9'-3"	—
w ₁₁ (E)	50	#5	5'-5"	┘
w ₁₂ (E)	14	#5	10'-0"	—
w ₁₃ (E)	14	#5	6'-0"	┘
w ₁₄ (E)	20	#5	11'-5"	—
STRUCTURE EXCAVATION			CU YD	2,310
CONCRETE STRUCTURES			CU YD	917.3
REINFORCEMENT BARS, EPOXY COATED			POUND	96,050



BAR	"A"	"B"
n ₁ (E)	5'-9"	10"
n ₂ (E)	8'-0"	1'-0"
n ₃ (E)	8'-0"	10"
n ₄ (E)	9'-0"	1'-2"
n ₅ (E)	10'-8"	1'-2"
n ₆ (E)	14'-0"	1'-2"
n ₇ (E)	11'-10"	1'-2"
w ₁₁ (E)	3'-3"	2'-2"
w ₁₃ (E)	3'-10"	2'-2"
w ₁₅ (E)	4'-10"	2'-2"



NOTES:

REINFORCEMENT DESIGNATED (E) SHALL BE EPOXY COATED.

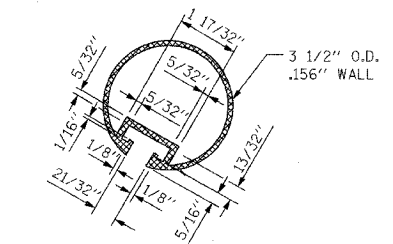
NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 RETAINING WALL
 BAR BEND AND BILL OF MATERIAL

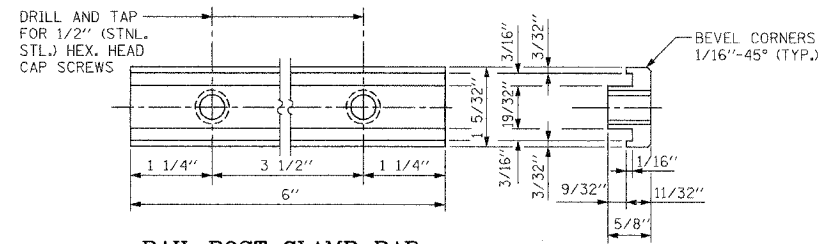
McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: JCE
 CHECKED BY: AWW
 DRAWN BY: JCE

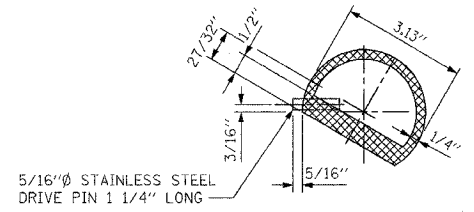
SCALE:
 N.T.S.



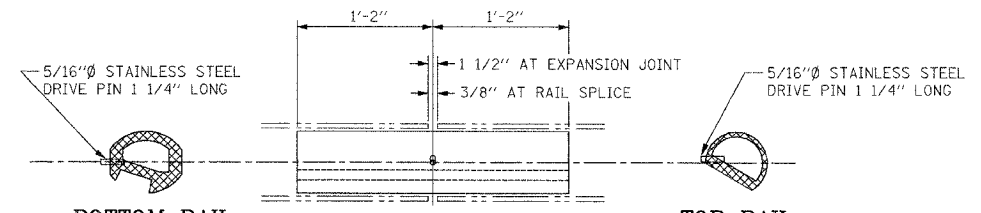
SECTION THRU TOP RAIL



RAIL POST CLAMP BAR FOR TOP RAIL



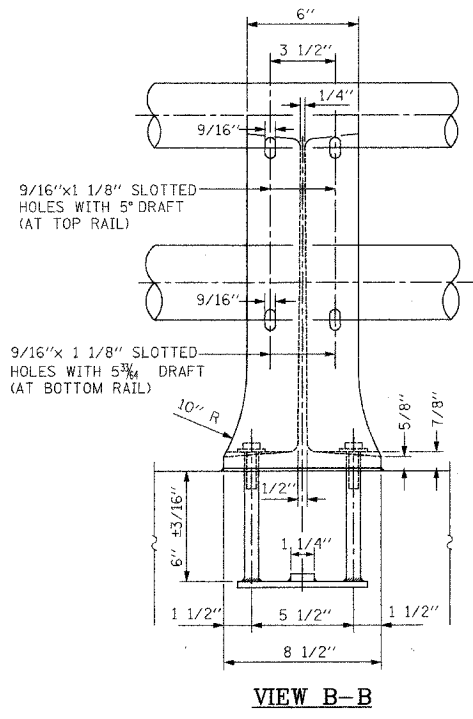
SECTION THRU SPLICE TOP RAIL



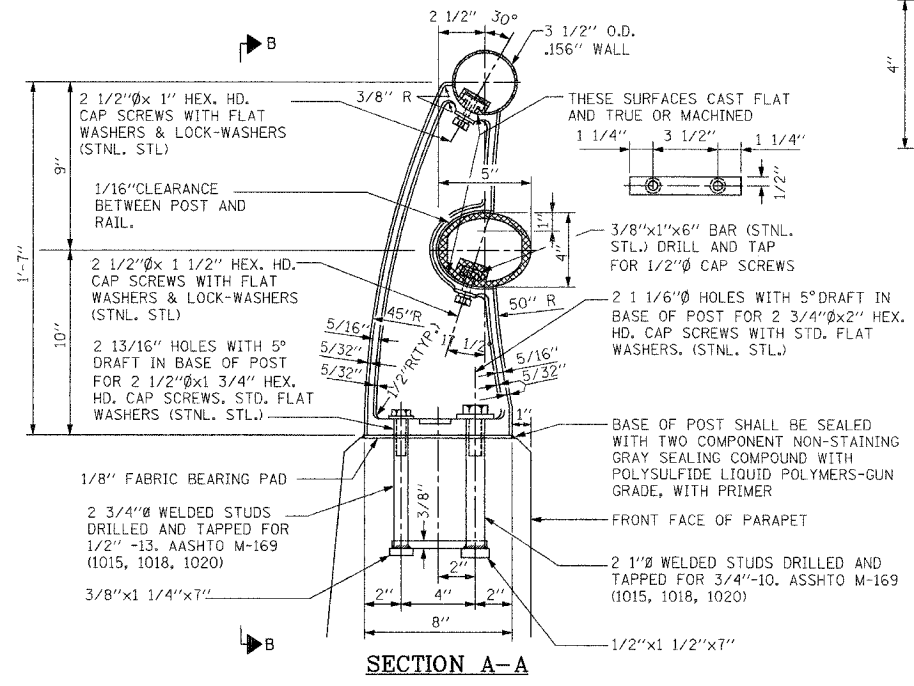
BOTTOM RAIL RAIL SPLICE TOP RAIL

NOTES:

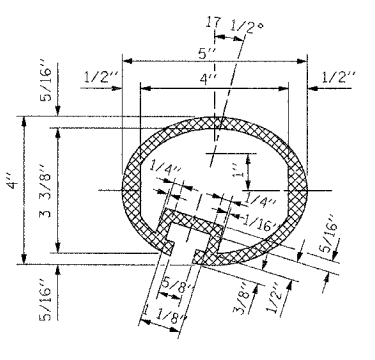
1. ALL POSTS SHALL BE NORMAL TO PARAPET.
2. ALL ALUMINUM ALLOY EXTRUDED RAIL SHALL BE SUPPLIED IN MODULAR LENGTHS OF 30 FEET, EXCEPT AT THE END OF THE BRIDGE OR OVER OPEN JOINTS IN BRIDGE DECK WHERE THE RAIL SHALL BE ATTACHED TO A MINIMUM OF 2 POSTS. IF THE RAIL IS ON A HORIZONTAL CURVE OF 2300-FOOT RADIUS OR LESS, THE MODULAR LENGTHS MAY BE REDUCED BUT SHALL BE ATTACHED TO A MINIMUM OF 2 POSTS.
3. ALL JOINTS IN RAIL SHALL BE SPLICED PER DETAIL.
4. PROVIDE 1 1/8" AND 2 1/16" ALUMINUM SHIM FOR 25% OF THE POSTS.
5. ROLL ELEMENTS SHALL BE PARALLEL TO GRADE-HIGH SPOTS WILL BE ROUND AND LOW SPOTS SHIMMED.
6. RAILING SHALL BE IN ACCORDANCE WITH SECTION 509 OF THE STANDARD SPECIFICATIONS, EXCEPT AS NOTED, AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR ALUMINUM RAILING, TYPE L.
7. ALUMINUM ALLOY RAIL SHALL CONFORM TO ASTM B221 ALLOY 6061-T6 OR 6351-T5 WITH MIN. YIELD 35 KSI, AND ELONGATION OF 10% IN 2 INCHES.



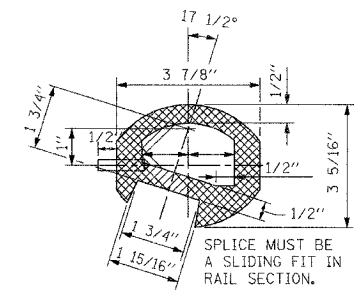
VIEW B-B



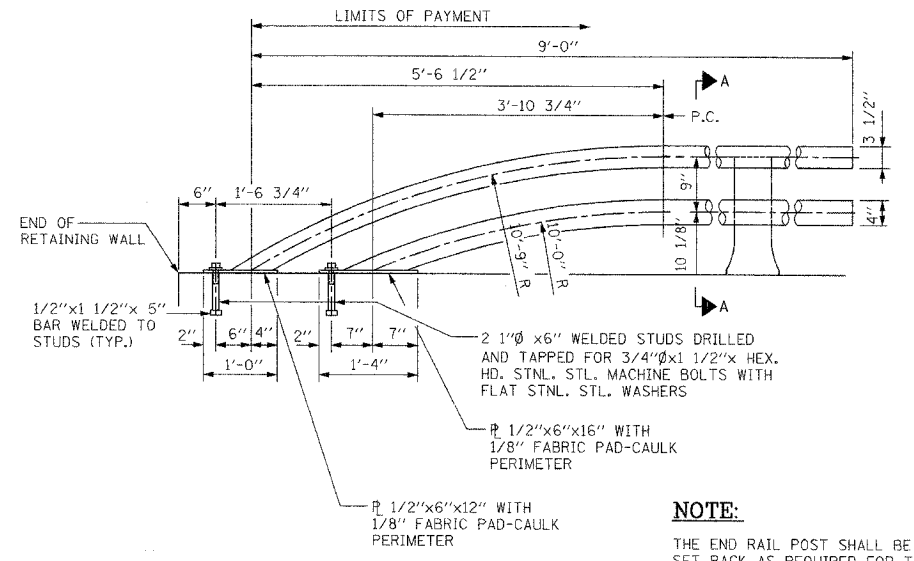
RAIL POST DETAILS



SECTION THRU ELLIPTICAL RAIL SECTION



SECTION THRU SPLICE



RAIL TERMINAL SECTION

NOTE:

THE END RAIL POST SHALL BE SET BACK AS REQUIRED FOR THE TERMINAL RAIL SECTION.

BILL OF MATERIAL

ALUMINUM RAILING, TYPE L	UNIT	TOTAL QUANTITY
	FOOT	853'

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
ROADWAY RECONSTRUCTION			
ALUMINUM RAILING DETAILS			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: JCE CHECKED BY: AWW DRAWN BY: JCE	SCALE: N.T.S.

DRAWING ID: H:\03023\STRUCT\ALUMINUM RAILING DETAILS.DWG
PLOT DATE: 12/21/06 BY: jehmart

Wang Engineering, Inc.
 Consulting Geotechnical and Environmental Engineers
 wangeng3@wangeng.com
 1145 Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG B-1

WEI Job No.: 201-20-02

Datum: NGVD
 Elevation: 643.50 ft
 North: 16646.00 ft
 East: 22.75 ft
 Station: 166+46
 Offset: 22.75 RT

Client: McDonough and Associates, Inc.
 Project: Plainfield - Naperville Road
 Location: SEC. 13 & 14, T. 39N, R. 9E Will County, Illinois

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
642.9	7-inch thick ASPHALT --PAVEMENT--												
642.9	CRUSHED STONE AGGREGATE --BASE COURSE--	1	7	9	1.25	10							
640.5	Stiff, brown SANDY CLAY LOAM --FILL--	2	2	3	1.25	25							
638.0	Stiff, brown and black SILTY CLAY --FILL--	3	2	2	1.23	35							
634.8	Soft, brown, black and gray SILTY CLAY LOAM, trace organic matter	4	1	1	0.41	25							
633.0	Very stiff to hard, gray CLAY with interbedded sand lenses	5	8	5	3.20	17							
628.0	Very loose to medium dense, brown GRAVELLY SAND	6	5	7	5.08	18							
622.0	Very dense, brown and gray gravelly COBBLES --WEATHERED BEDROCK--	9	14	15	50.4	11							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-11-2003	Complete Drilling	11-11-2003	While Drilling	15.50 ft		
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	9.50 ft		
Driller	K & P	Logger	J. Kasnick	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite chips upon completion			Depth to Water	NA		

Wang Engineering, Inc.
 Consulting Geotechnical and Environmental Engineers
 wangeng3@wangeng.com
 1145 Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG B-2

WEI Job No.: 201-20-02

Datum: NGVD
 Elevation: 644.00 ft
 North: 16521.00 ft
 East: 14.25 ft
 Station: 165+21
 Offset: 14.25 RT

Client: McDonough and Associates, Inc.
 Project: Plainfield - Naperville Road
 Location: SEC. 13 & 14, T. 39N, R. 9E Will County, Illinois

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
643.5	8-inch thick ASPHALT --PAVEMENT--												
643.5	CRUSHED STONE AGGREGATE --BASE COURSE--	1	1	1	1.56	28							
640.0	Medium stiff to stiff, brown gravelly SILTY CLAY --FILL--	2	1	1	0.82	31							
631.0	Medium stiff, brown, black, and gray gravelly SANDY CLAY LOAM with silt and sand interbeds, trace organic matter	3	8	6	0.90	35							
613.0	Boring terminated at 31.00 ft												
631.0	Dense, brown GRAVELLY SAND	6	8	20	NP	15							
627.8	Medium dense, gray LOAM	7	8	13	NP	23							
624.5	Medium dense, gray GRAVELLY SAND --WEATHERED BEDROCK--	8	11	16	NP	17							
622.0	Gray, thinly laminated, moderately weathered, finely crystalline, strong DOLOSTONE with moderate to seldom vuggy porosity and intercrystalline porosity --BEDROCK--	25											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-12-2003	Complete Drilling	11-12-2003	While Drilling	13.00 ft		
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	NA		
Driller	K & B	Logger	J. Kasnick	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite chips upon completion			Depth to Water	NA		

Wang Engineering, Inc.
 Consulting Geotechnical and Environmental Engineers
 wangeng3@wangeng.com
 1145 Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG B-3

WEI Job No.: 201-20-02

Datum: NGVD
 Elevation: 644.00 ft
 North: 16405.00 ft
 East: 9.75 ft
 Station: 164+05
 Offset: 9.75 RT

Client: McDonough and Associates, Inc.
 Project: Plainfield - Naperville Road
 Location: SEC. 13 & 14, T. 39N, R. 9E Will County, Illinois

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
643.5	8-inch thick ASPHALT --PAVEMENT--												
643.5	CRUSHED STONE AGGREGATE --BASE COURSE--	1	5	5	1.56	24							
640.0	Stiff, brown and gray SILTY CLAY with interbedded sand lenses --FILL--	2	2	3	1.07	31							
633.0	Soft to stiff, black and gray SILTY CLAY with silt interbeds, trace organic matter	3	3	3	0.50	30							
633.5	Hard, brown to gray CLAY	5	3	7	4.26	19							
628.5	Medium dense, brown LOAM	6	4	7	5.08	19							
628.0	Very dense, gray gravelly SILTY LOAM	7	5	4	NP	10							
624.5	Very dense, brown and gray COBBLES Boring terminated at 25.00 ft --AUGER REFUSAL--	8	22	34	NP	12							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-12-2003	Complete Drilling	11-12-2003	While Drilling	15.50 ft		
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	DRY		
Driller	K & B	Logger	J. Kasnick	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite chips upon completion			Depth to Water	NA		

DRAWING ID: H:\03023\STRUCT\BORING LOGS1.DWG
 PLOT DATE: 12/21/06 BY: jehnhart

NOTES:
 SEE SHEET S-01 FOR PLAN LOCATIONS.

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14) ROADWAY RECONSTRUCTION RETAINING WALL SOIL BORING LOG			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: JCE CHECKED BY: AWW DRAWN BY: JCE	SCALE: N.T.S.

Wang Engineering, Inc.
 Consulting Geotechnical and Environmental Engineers
 wangeng3@wangeng.com
 1145 Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG B-4
 WEI Job No.: 201-20-02
 Datum: NGVD
 Elevation: 644.00 ft
 North: 16280.00 ft
 East: 11.25 ft
 Station: 162+80
 Offset: 11.25 RT

Client: McDonough and Associates, Inc.
 Project: Plainfield - Naperville Road
 Location: SEC. 13 & 14, T. 39N, R. 9E, Will County, Illinois

Wang Engineering, Inc.
 Consulting Geotechnical and Environmental Engineers
 wangeng3@wangeng.com
 1145 Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

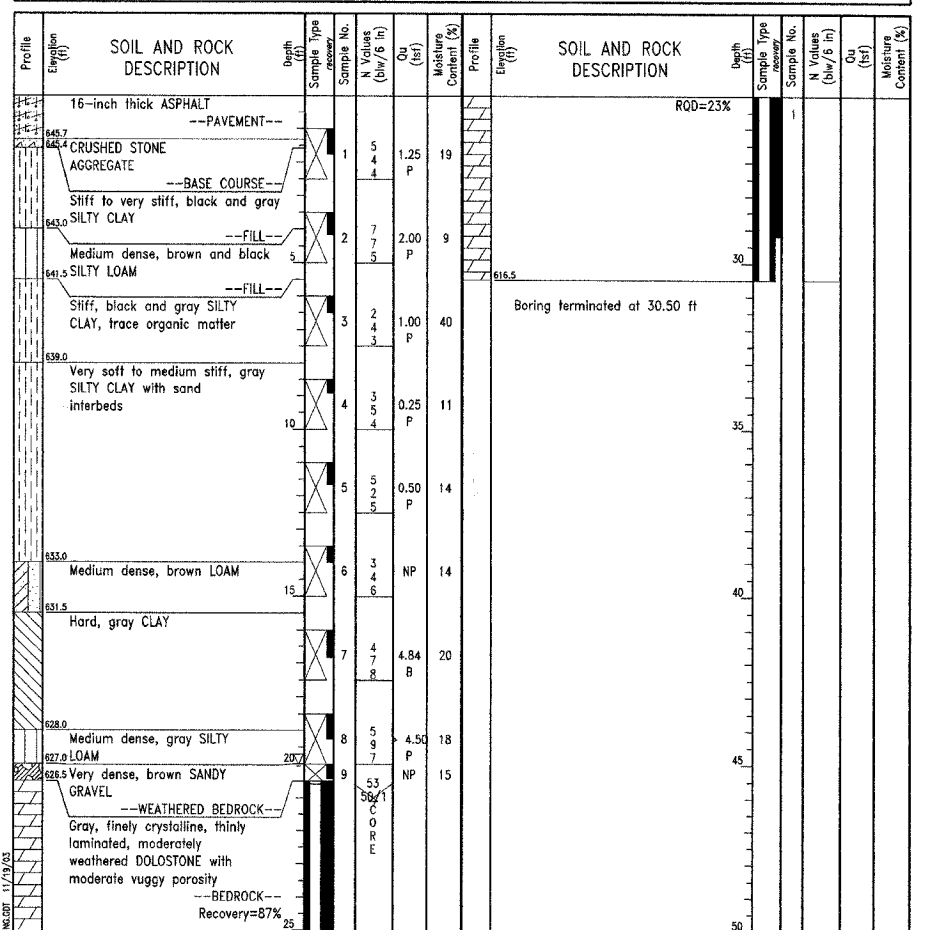
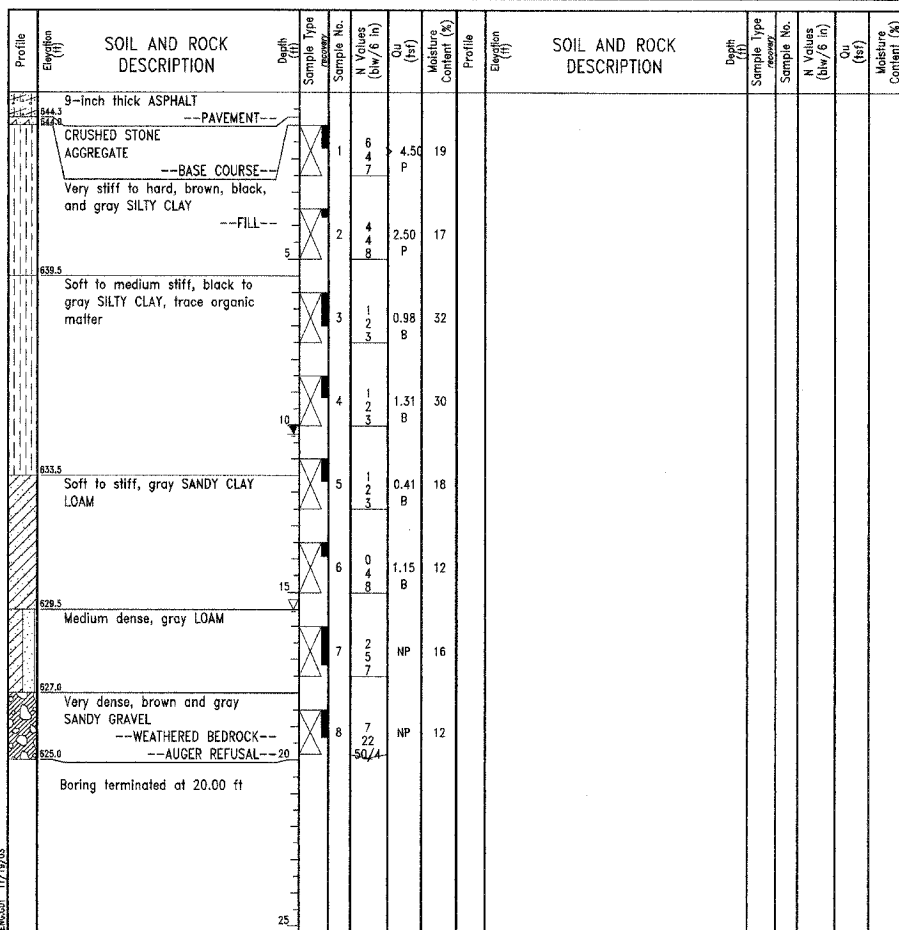
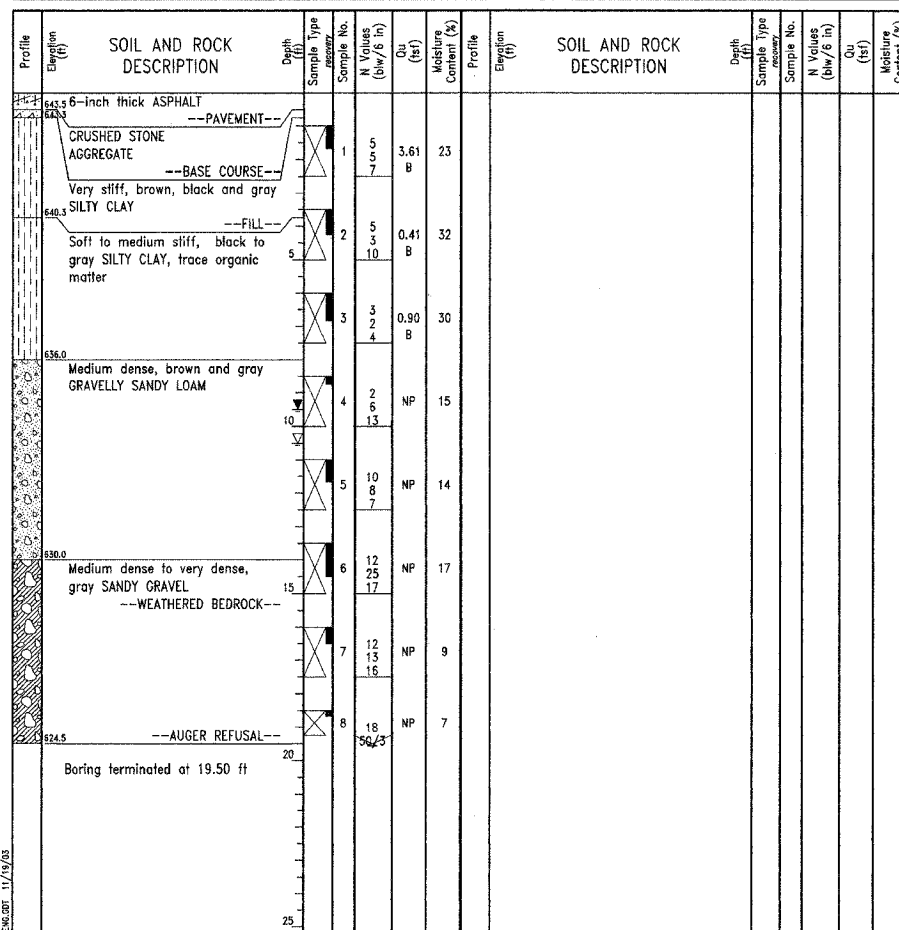
BORING LOG B-5
 WEI Job No.: 201-20-02
 Datum: NGVD
 Elevation: 645.00 ft
 North: 16160.00 ft
 East: 11.25 ft
 Station: 161+80
 Offset: 11.25 RT

Client: McDonough and Associates, Inc.
 Project: Plainfield - Naperville Road
 Location: SEC. 13 & 14, T. 39N, R. 9E, Will County, Illinois

Wang Engineering, Inc.
 Consulting Geotechnical and Environmental Engineers
 wangeng3@wangeng.com
 1145 Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG B-6
 WEI Job No.: 201-20-02
 Datum: NGVD
 Elevation: 647.00 ft
 North: 16045.00 ft
 East: 12.00 ft
 Station: 160+45
 Offset: 12.00 RT

Client: McDonough and Associates, Inc.
 Project: Plainfield - Naperville Road
 Location: SEC. 13 & 14, T. 39N, R. 9E, Will County, Illinois



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	11-12-2003	Complete Drilling	11-12-2003
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV
Driller	K & B	Logger	J. Kasnick
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite chips upon completion		
While Drilling	▽	10.50 ft	
At Completion of Drilling	▽	9.50 ft	
Time After Drilling	NA		
Depth to Water	▽	NA	

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	11-12-2003	Complete Drilling	11-12-2003
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV
Driller	K & B	Logger	J. Kasnick
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite chips upon completion		
While Drilling	▽	15.50 ft	
At Completion of Drilling	▽	10.25 ft	
Time After Drilling	NA		
Depth to Water	▽	NA	

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	11-10-2003	Complete Drilling	11-11-2003
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV
Driller	K & P	Logger	J. Kasnick
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite chips upon completion		
While Drilling	▽	20.00 ft	
At Completion of Drilling	▽	---	
Time After Drilling	NA		
Depth to Water	▽	NA	

DRAWING ID: H:\03023\STRUCT\BORING LOGS2.DWG
 PLOT DATE: 12/21/06 - BY jehmart

NOTES:
 SEE SHEET S-01 FOR PLAN LOCATIONS.

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 RETAINING WALL
 SOIL BORING LOG

McDonough Associates Inc.
 Engineers/Architects

CHECKED BY: JCE
 DRAWN BY: JCE

SCALE: N.T.S.

Wang Engineering, Inc.
 Consulting Geotechnical and Environmental Engineers
 wangeng3@wangeng.com
 1145 Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG B-7
 WEI Job No.: 201-20-02
 Client: McDonough and Associates, Inc.
 Project: Plainfield - Naperville Road
 Location: SEC. 13 & 14, T. 39N, R. 9E, Will County, Illinois

Datum: NGVD
 Elevation: 651.50 ft
 North: 15920.00 ft
 East: 14.75 ft
 Station: 159+20
 Offset: 14.75 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
650.0	18-inch thick ASPHALT --PAVEMENT--								SANDY GRAVEL Boring terminated at 4.00 ft --AUGER REFUSAL--						
648.8	CRUSHED STONE AGGREGATE --BASE COURSE--	1	1	5 2 2	0.41 B	18									
646.6	Medium stiff, black SILTY CLAY, trace organic matter	2	2	2 3 2	0.75 P										
646.6	Medium stiff, gray CLAY LOAM with interbedded sand lenses	3	3	1 1 3	0.74 B	11									
642.8	Medium dense, brown and gray coarse SAND	4	4	3 7 7	NP	7									
		5	5	3 8 9	NP	14									
		6	6	13 11 7	NP	21									
		7	7	5 10 8	NP	11									
635.5	Very stiff, gray CLAY	8	8	3 5 8	3.12 B	21									
630.5	Medium dense to very dense, gray, gravelly SILTY LOAM	9	9	5 7 6	NP	10									
627.3	Very dense, brown and gray	10	10	50/4	NP	10									

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	11-10-2003	While Drilling	10.50 ft
Complete Drilling	11-10-2003	At Completion of Drilling	7.00 ft
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV
Driller	K & P	Logger	J. Kasnick
Checked by		Time After Drilling	NA
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite chips upon completion	Depth to Water	NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering, Inc.
 Consulting Geotechnical and Environmental Engineers
 wangeng3@wangeng.com
 1145 Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG B-8
 WEI Job No.: 201-20-02
 Client: McDonough and Associates, Inc.
 Project: Plainfield - Naperville Road
 Location: SEC. 13 & 14, T. 39N, R. 9E, Will County, Illinois

Datum: NGVD
 Elevation: 655.00 ft
 North: 15803.00 ft
 East: 17.33 ft
 Station: 158+03
 Offset: 17.33 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
654.2	10-inch thick ASPHALT --PAVEMENT--								Medium dense, gray gravelly SILTY LOAM	11	11	10 6 12	4.92 B	15	
652.8	CRUSHED STONE AGGREGATE --BASE COURSE--	1	1	4 2 3	NP	13			Very dense, gray SANDY GRAVEL	12	12	50/2	NP	10	
647.0	Loose to medium dense, brown SILTY LOAM	2	2	2 7 7	NP	13			WEATHERED BEDROCK Boring terminated at 28.73 ft --AUGER REFUSAL--						
645.5	Very stiff to hard, brown and gray SILTY CLAY LOAM with interbedded sand lenses	3	3	8 8 11	4.50 P	9									
645.5	Medium dense to dense, brown and gray, coarse SAND	4	4	3 15 17	2.30 S	10									
		5	5	6 6 10	NP	13									
		6	6	17 13 14	NP	21									
		7	7	6 9 13	NP	14									
		8	8	5 12 13	NP	17									
		9	9	5 10 8	NP	12									
630.8	Very stiff to hard, gray CLAY	10	10	3 5 7	3.36 B	21									

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	11-10-2003	While Drilling	10.50 ft
Complete Drilling	11-10-2003	At Completion of Drilling	10.00 ft
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV
Driller	K & P	Logger	J. Kasnick
Checked by		Time After Drilling	NA
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite chips upon completion	Depth to Water	NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

DRAWING ID: H:\03023\STRUCT\BORING LOGS3.DWG
 PLOT DATE: 12/21/06 BY: jehart

NOTES:
 SEE SHEET S-01 FOR PLAN LOCATIONS.

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
 PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 ROADWAY RECONSTRUCTION
 RETAINING WALL
 SOIL BORING LOG

McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: JCE
 CHECKED BY: AWW
 DRAWN BY: JCE

SCALE:
 N.T.S.

ROUTE NO.	SECTION	QUANTITY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	94
FED. ROAD DIST. NO. 7		ALIGN.	FEL. AD. PROJECT.	

* 98-00036-19-FP CONTRACT NO. 83896

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED/MAINTAINED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE COUNTY AND SHALL BE RE-INSTALLED BY THE CONTRACTOR PER THE PROPOSED TRAFFIC SIGNAL PLAN AND PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER AND CABINET, COMPLETE
- 3 EACH SIGNAL POST
- 8 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH SERVICE INSTALLATION
- 2 EACH LIGHT DETECTOR

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

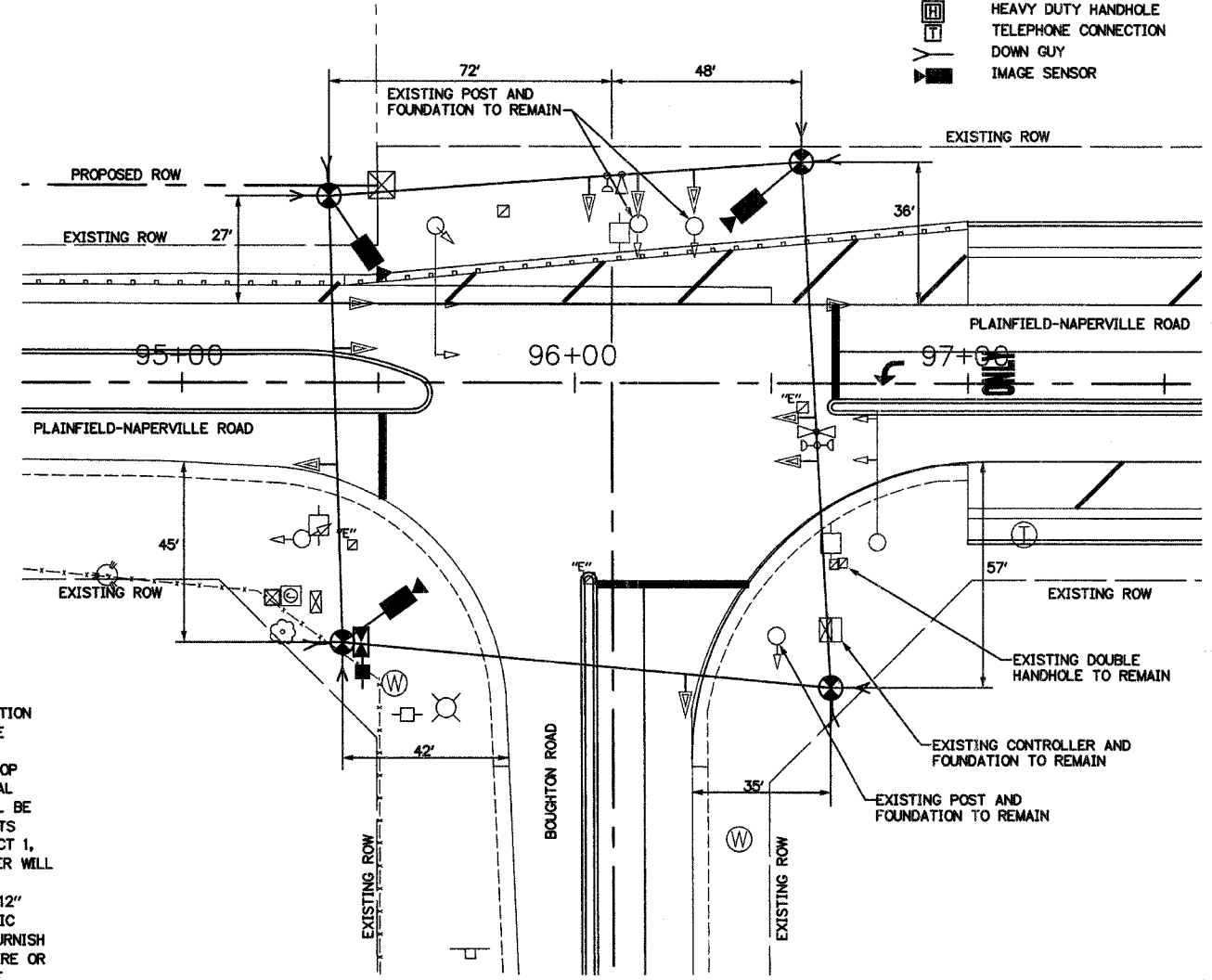
- 2 EACH MAST ARM ASSEMBLY AND POLE
- 1 EACH SIGNAL POST

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- ◁ EXISTING SIGNAL HEAD TO BE REMOVED
- ◻ EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- ◻ EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- ◻ EXISTING HANDHOLE TO BE REMOVED
- ◻ EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- ◻ EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- ⊙ EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- ⊙ CONFIRMATION BEACON TO BE REMOVED
- ◻ EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

TEMPORARY TRAFFIC SIGNAL LEGEND

- ⊙ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED
- ⊙ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MIN.
- ◻ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- ◻ TEMPORARY SERVICE INSTALLATION
- ◻ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊙ PEDESTRIAN PUSHBUTTON DETECTOR
- ⊙ EMERGENCY VEHICLE LIGHT DETECTOR CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP COMMON TRENCH
- UNIT DUCT
- G.S. CONDUIT IN TRENCH OR PUSHED
- ◻ HANDHOLE
- ◻ HEAVY DUTY HANDHOLE
- TELEPHONE CONNECTION
- DOWN GUY
- ◻ IMAGE SENSOR



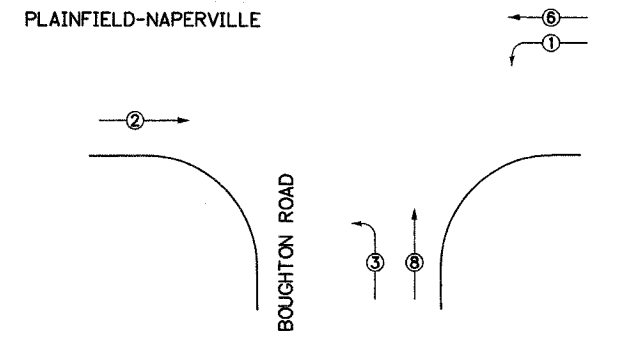
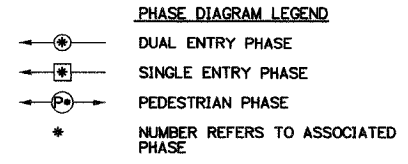
TRAFFIC SIGNAL NOTES:

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
TEMPORARY TRAFFIC SIGNAL PLAN			
BOUGHTON ROAD			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: NKU CHECKED BY: MT DRAWN BY: NKU	SCALE: 1" = 20'
NO.	DATE	REVISION	BY

DRAWING ID: C:\20030023 - Plainfield-Naperville Road\dwg\TS 104th.dwg
PLOT DATE: 07/08/05 - 13:04

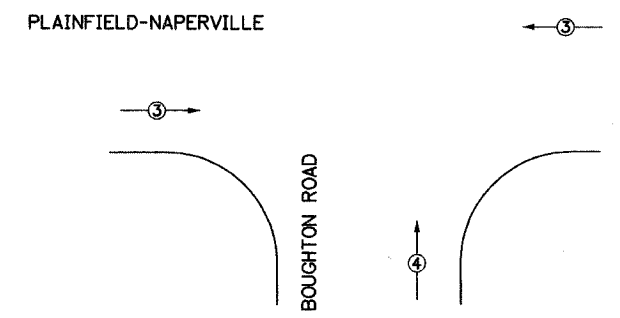
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	95
FEDERAL AID DIST. NO. 7		LIABILITIES	FED. AID PROJECT	
* 98-00036-19-FP		CONTRACT NO. 83896		



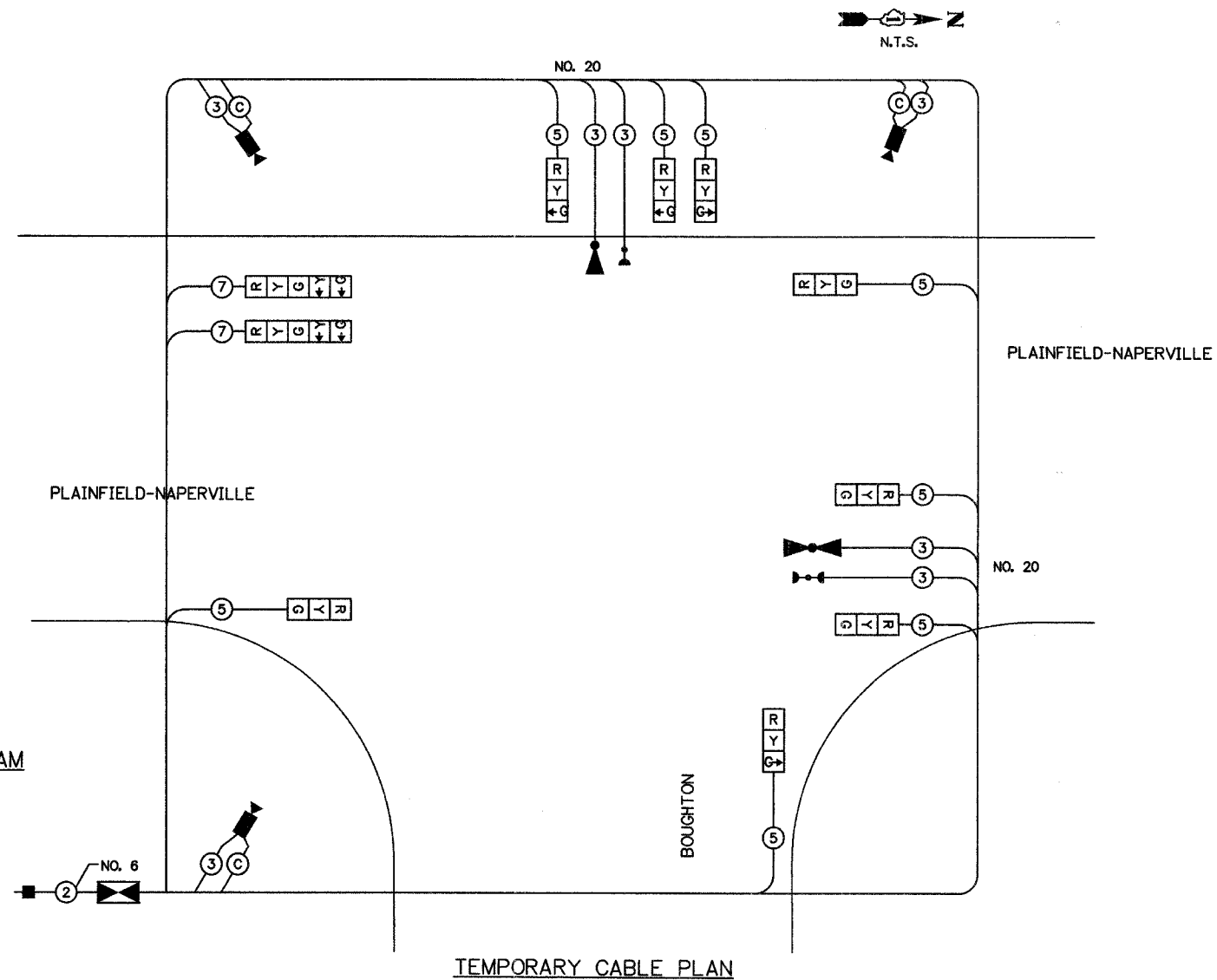
TEMPORARY PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTORS

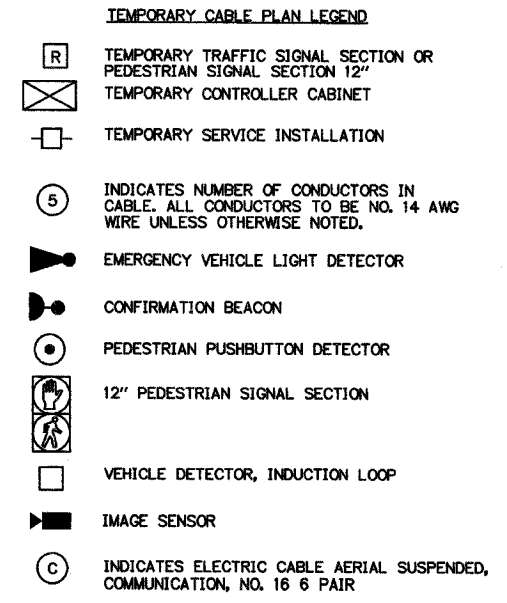
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	←	↘



TEMPORARY EMERGENCY VEHICLE PREEMPTION DIAGRAM



TEMPORARY CABLE PLAN



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE	OPERATION	TOTAL WATTAGE	
SIGNAL (RED)	10	135	17	0.50	675.0
(YELLOW)	10	135	25	0.25	337.5
(GREEN)	4	135	15	0.25	135.0
ARROW	8	135	12	0.10	108.0
PED. SIGNAL	0	90	25	1.00	0.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN	0	84	35	0.05	0.0
FLASHER	0		25	0.50	0.0
ENERGY COST TO:			TOTAL =		1355.5

WILL COUNTY DEPARTMENT OF HIGHWAYS
 16841 WEST LARAWAY ROAD
 JOLIET, ILLINOIS 60433

ENERGY SUPPLY: CONTACT: MR. DALE BALLINGER
 PHONE: (815) 724-5717
 COMPANY: COMMONWEALTH EDISON

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
TEMPORARY CABLE PLAN
BOUGHTON ROAD

McDonough Associates Inc. Engineers/Architects

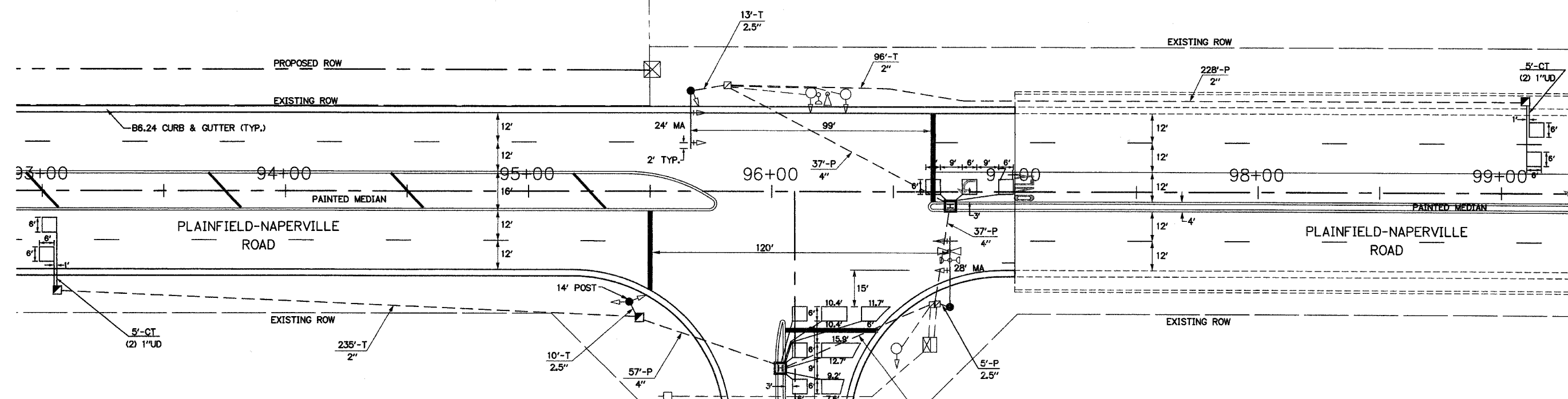
DESIGNED BY: NKU
 CHECKED BY: MT
 DRAWN BY: NKU

SCALE: 1" = 20'

NO.	DATE	REVISION	BY

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TS 104th.dwg
 PLOT DATE: 07/08/05 - 13:04

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	96
FED. ROAD DIST. NO. 7		KILGORE	FED. AID PROJECT	
* 98-00036-19-FP		CONTRACT NO. 83896		



SUMMARY OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	381
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	28
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	228
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	257
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	409
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1290
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	680
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1245
TRAFFIC SIGNAL POST, 14 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	670
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	450
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	360
RELOCATE INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2

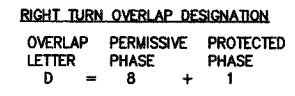
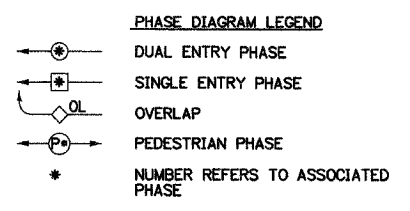
TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING

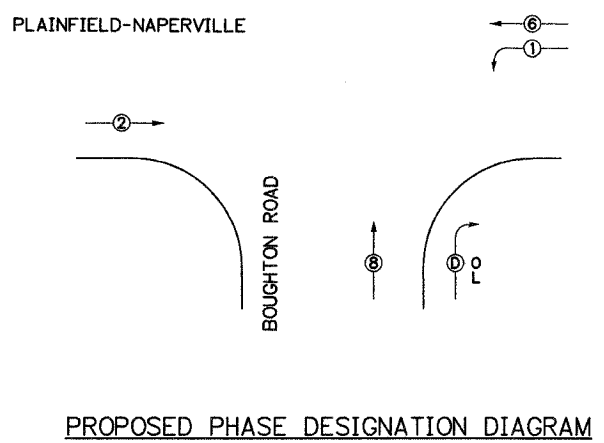
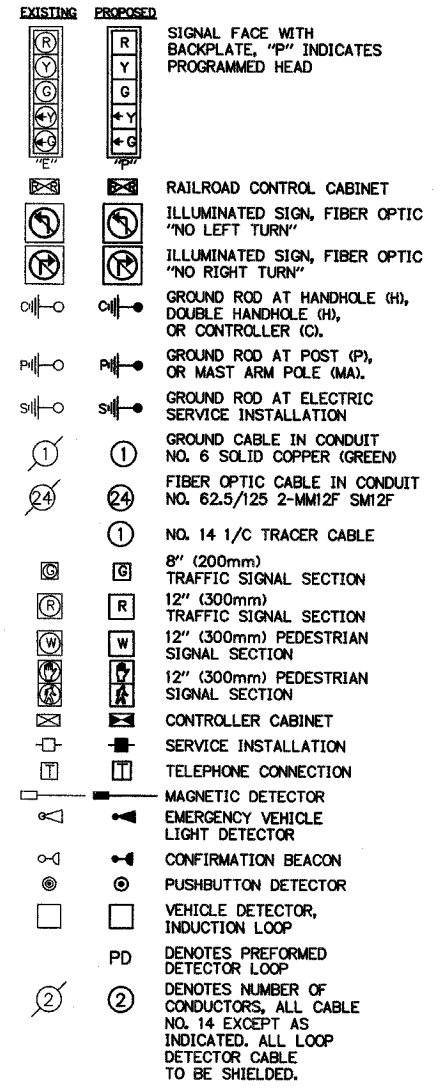
DRAWING ID: C:\20030023 - Plainfield-Naperville Road\dwg\TS 104th.dwg
PLOT DATE: 07/08/05 - 13:04

WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)			
PROPOSED TRAFFIC SIGNAL PLAN			
BOUGHTON ROAD			
		DESIGNED BY: NKU	SCALE:
		CHECKED BY: MT	1" = 20'
		DRAWN BY: NKU	
NO.	DATE	REVISION	BY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	96A
FEDERAL DIST. NO. 7		ALWAYS	FED. AID PROJECT:	
* 98-00036-19-FP			CONTRACT NO. 83896	

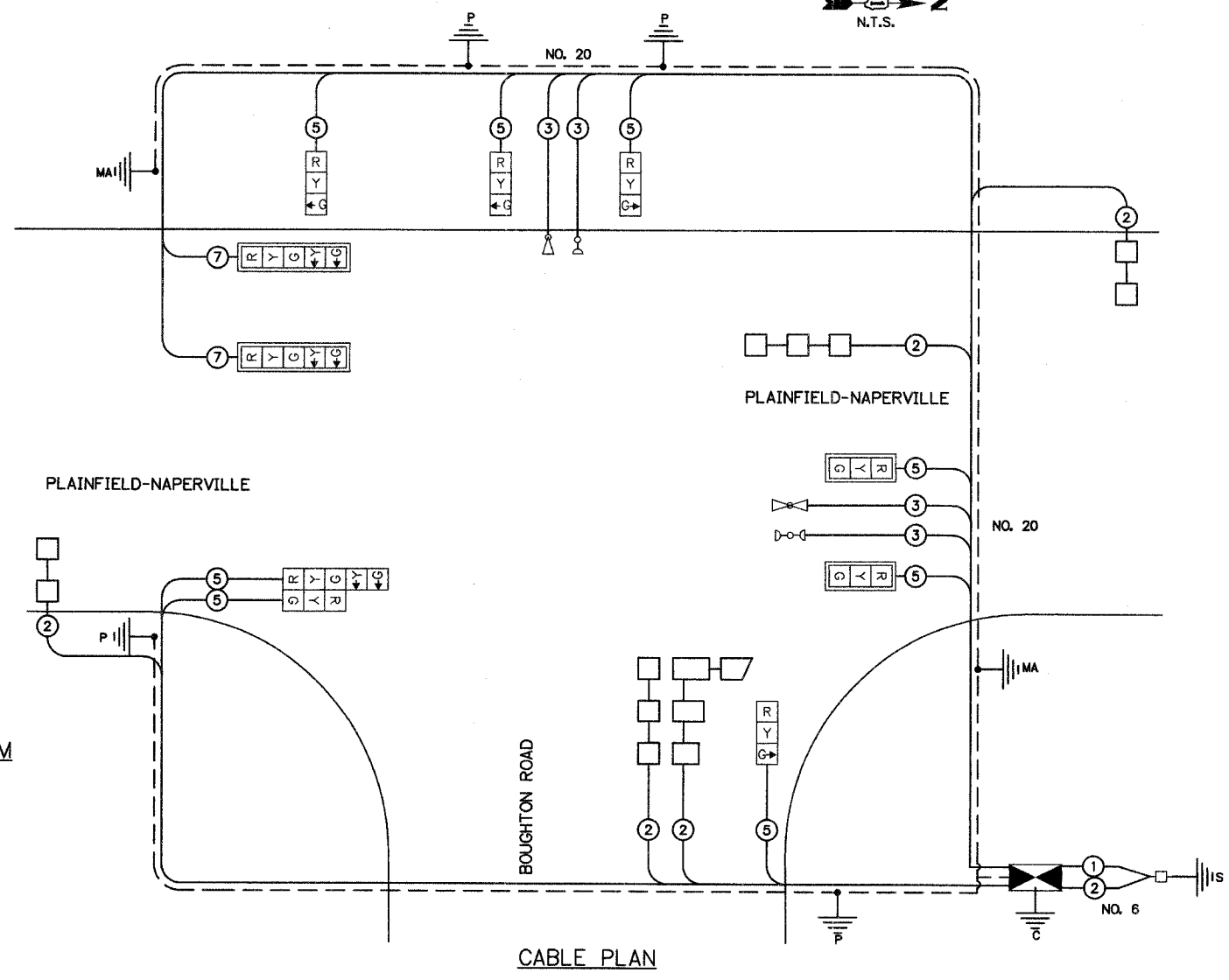
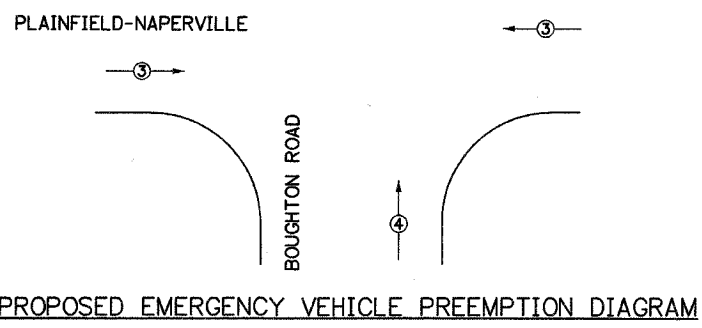


CABLE PLAN LEGEND



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	← →	↙ ↘



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	INCANDESCENT	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	135	17	0.50	85.0
(YELLOW)	10	135	25	0.25	62.5
(GREEN)	10	135	15	0.25	37.5
ARROW	10	135	12	0.10	12.0
PED. SIGNAL	0	90	25	1.00	0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN	0	84	35	0.05	0.0
FLASHER	0		25	0.50	0.0
ENERGY COST TO:				TOTAL =	297.0

FOUNDATION (DEPTH)	FT (m)	CABLE SLACK	FT (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
TYPE D-CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L = (6m+L)=
30", TYPE E	17.54 (5.3)	SIGNAL POST	2 (0.6)	BRACKET MOUNTED	13 (4.0)
36", TYPE E	15 (4.6)	CONTROLLER CAB.	1 (0.3)	PED. PUSHBUTTON	4 (1.2)
		FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.3)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.3)	POST MOUNTED	6 (1.8)

WILL COUNTY DEPARTMENT OF HIGHWAYS

16841 WEST LARAWAY ROAD
JOLIET, ILLINOIS 60433

ENERGY SUPPLY: CONTACT: MR. DALE BALLINGER
PHONE: (815) 724-5717
COMPANY: COMMONWEALTH EDISON

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (I.G.H. 14)
PROPOSED CABLE PLAN
BOUGHTON ROAD

McDonough Associates Inc. Engineers/Architects

DESIGNED BY: NKU
CHECKED BY: MT
DRAWN BY: NKU

SCALE: 1" = 20'

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TS 104th.dwg
PLOT DATE: 07/05/05 - 13:04

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

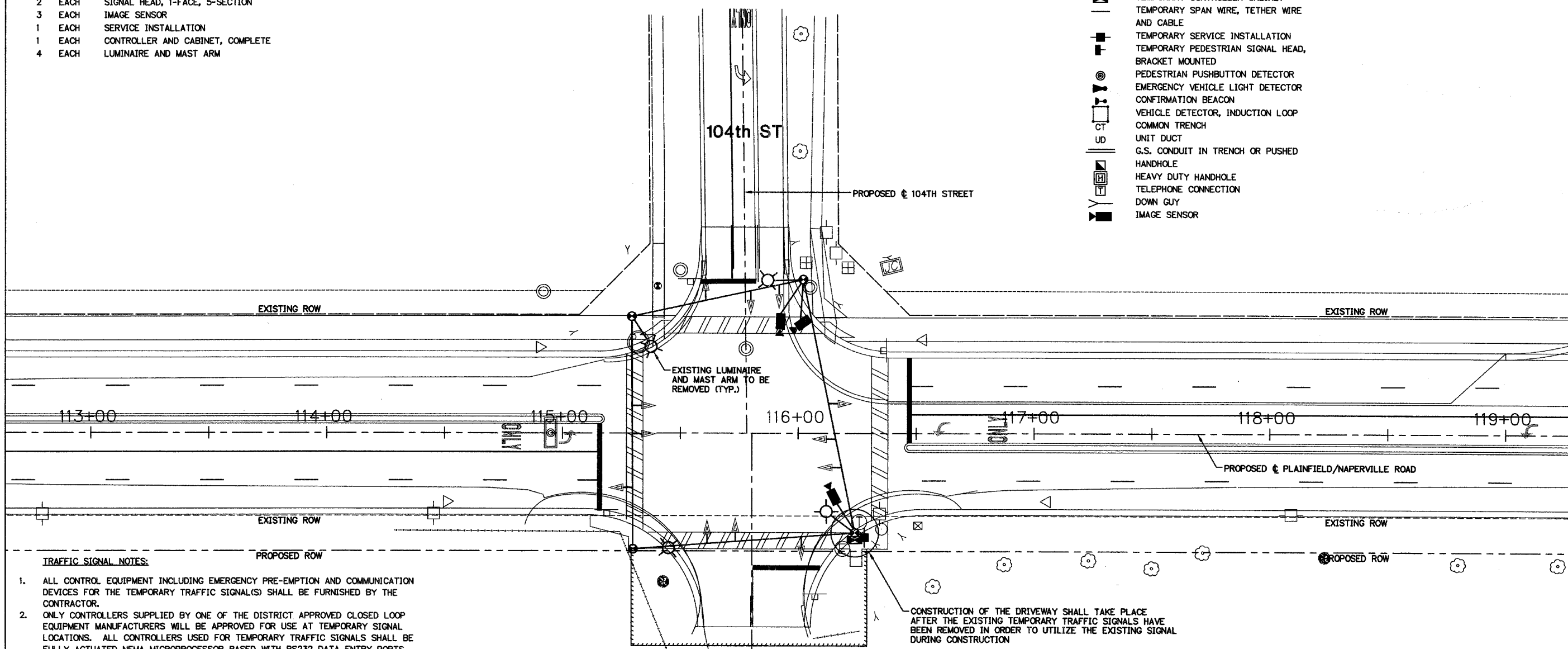
- 6 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 1-FACE, 4-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 3 EACH IMAGE SENSOR
- 1 EACH SERVICE INSTALLATION
- 1 EACH CONTROLLER AND CABINET, COMPLETE
- 4 EACH LUMINAIRE AND MAST ARM

TEMPORARY TRAFFIC SIGNAL LEGEND

- ↑ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED
- ⊙ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MIN.
- ⊞ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- ⊞ TEMPORARY SERVICE INSTALLATION
- ⊞ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊞ PEDESTRIAN PUSHBUTTON DETECTOR
- ⊞ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊞ CONFIRMATION BEACON
- ⊞ VEHICLE DETECTOR, INDUCTION LOOP
- ⊞ COMMON TRENCH
- ⊞ UNIT DUCT
- ⊞ G.S. CONDUIT IN TRENCH OR PUSHED
- ⊞ HANDHOLE
- ⊞ HEAVY DUTY HANDHOLE
- ⊞ TELEPHONE CONNECTION
- ⊞ DOWN GUY
- ⊞ IMAGE SENSOR

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	97
FEDERAL AID PROJ. NO. 7		REMARKS	FED. AID PROJECT	

* 98-00036-19-FP CONTRACT NO. 83896



TRAFFIC SIGNAL NOTES:

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. ALL EXISTING TEMPORARY TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED.

NAPERVILLE PUBLIC WORKS ENTRANCE

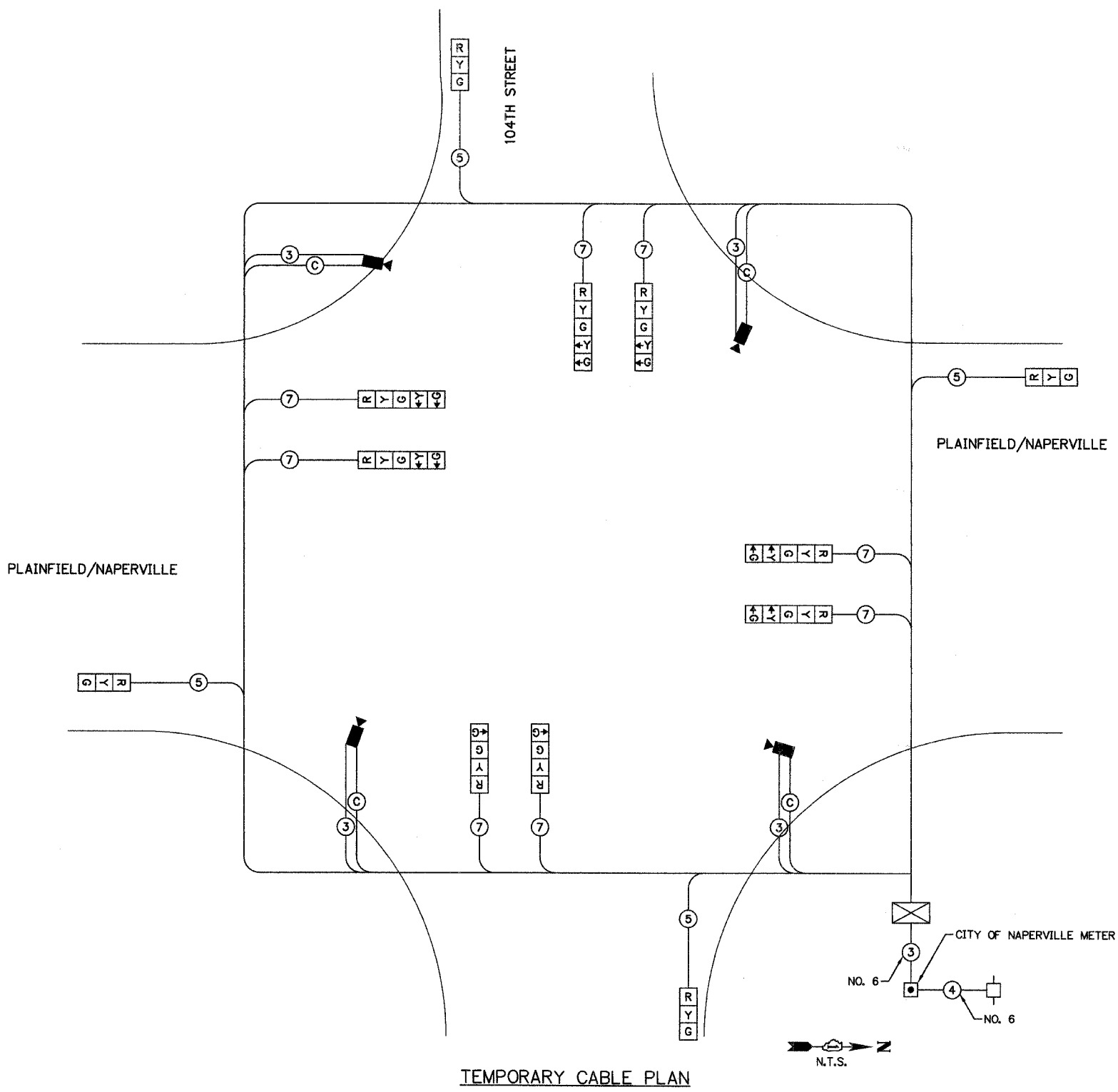
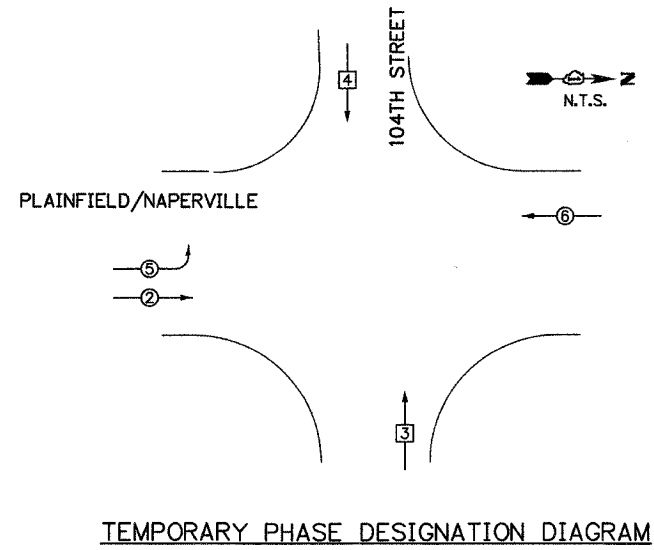
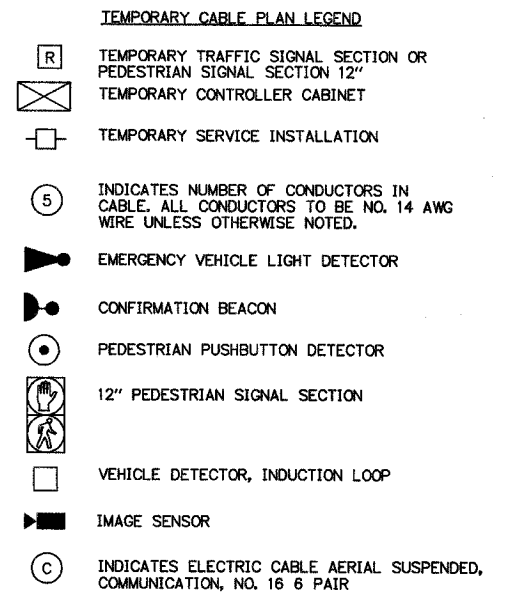
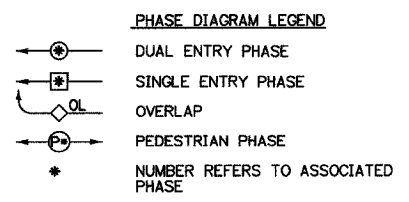
NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
EXISTING TEMPORARY TRAFFIC SIGNAL PLAN
104th STREET

McDonough Associates Inc. Engineers/Architects	DESIGNED BY: MJT	SCALE: 1" = 20'
	CHECKED BY: NKU DRAWN BY: MJT	

P3
 DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TS 104th.dwg
 PLOT DATE: 07/08/05 - 13:04



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE	LED	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	810.0
(YELLOW)	12	135	25	0.25	405.0
(GREEN)	12	135	15	0.25	405.0
ARROW	8	135	12	0.10	108.0
PED. SIGNAL	0	90	25	1.00	0.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN	0	84	35	0.05	0.0
FLASHER	0		25	0.50	0.0
ENERGY COST TO:				TOTAL =	1828.0

WILL COUNTY DEPARTMENT OF HIGHWAYS
 16841 WEST LARAWAY ROAD
 JOLIET, ILLINOIS 60433

ENERGY SUPPLY: CONTACT: MR. JERRY SANDRETTI
 PHONE: (630) 421-6182
 COMPANY: NAPERVILLE ELECTRIC COMPANY

NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS

PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
 EXISTING TEMPORARY CABLE PLAN
 104TH STREET

McDonough Associates Inc.
 Engineers/Architects

DESIGNED BY: MJT
 CHECKED BY: NKU
 DRAWN BY: MJT

SCALE:
 N.T.S.

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TS 104th.dwg
 PLOT DATE: 07/08/05 13:04

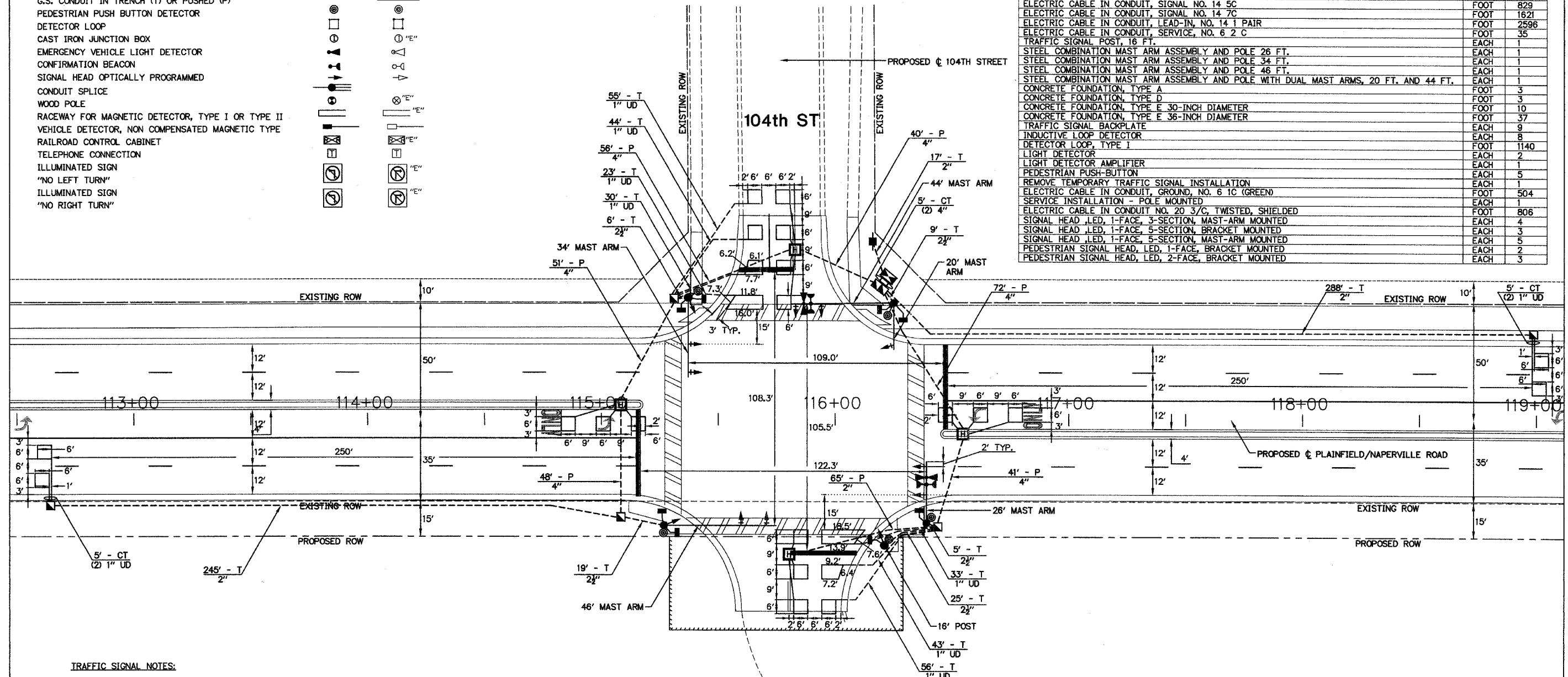
TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	[Symbol]	[Symbol]
PEDESTRIAN PUSH BUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
WOOD POLE	[Symbol]	[Symbol]
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]
ILLUMINATED SIGN	[Symbol]	[Symbol]
"NO LEFT TURN"	[Symbol]	[Symbol]
ILLUMINATED SIGN	[Symbol]	[Symbol]
"NO RIGHT TURN"	[Symbol]	[Symbol]

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2545	*	WILL	147	99
FEDERAL DIST. NO. 7		LAUREL	FEL. AND PROJECT	
* 98-00036-19-FP CONTRACT NO. 83896				

PAY ITEM

	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	550
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	64
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	65
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	308
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	619
MAINTENANCE OF TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	806
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1640
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	829
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1621
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2596
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	35
TRAFFIC SIGNAL POST, 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
CONCRETE FOUNDATION, TYPE D	FOOT	3
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37
TRAFFIC SIGNAL BACKPLATE	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	1140
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	1
REMOVE TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	5
ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	806
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	3

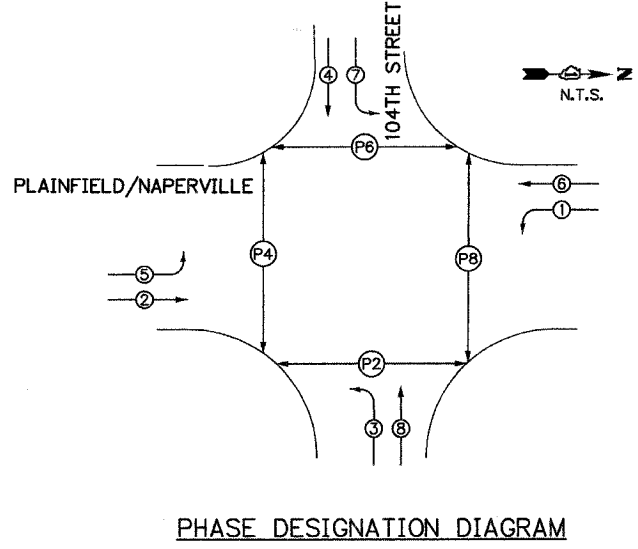


NAPERVILLE PUBLIC WORKS ENTRANCE

- TRAFFIC SIGNAL NOTES:**
- THE EXISTING STREET NAME SIGNS SHALL BE REMOVED FROM THE EXISTING TEMPORARY TRAFFIC SIGNAL INSTALLATION AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT. THE REMOVAL AND REPLACEMENT SHALL NOT OCCUR UNTIL AFTER THE NEW SIGNAL INSTALLATION IS IN OPERATION. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

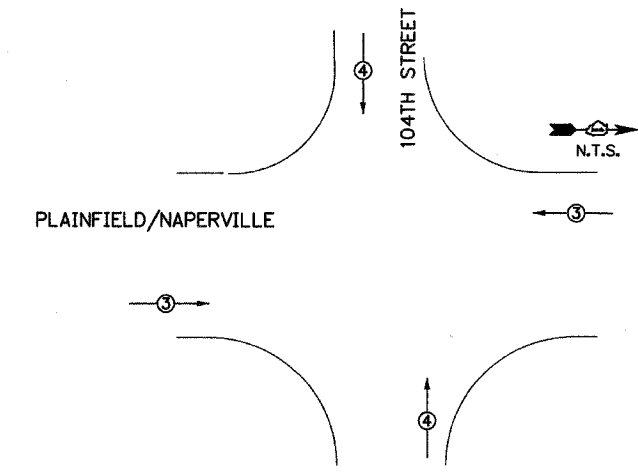
WILL COUNTY DEPARTMENT OF HIGHWAYS			
PLAINFIELD-NAPERVILLE ROAD (C.H. 14) PROPOSED TRAFFIC SIGNAL PLAN 104TH STREET			
McDonough Associates Inc. Engineers/Architects		DESIGNED BY: MJT CHECKED BY: NKU DRAWN BY: MJT	SCALE: 1" = 20'
NO.	DATE	REVISION	BY

P4
 DRAWING ID: C:\20030023 - Plainfield-Naperville Road\dwg\TS 104th.dwg
 PLOT DATE: 07/08/05 - 13:04

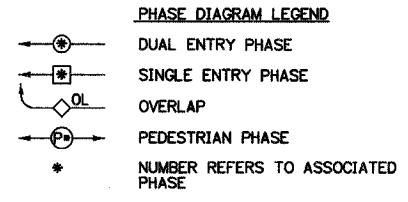


PHASE DESIGNATION DIAGRAM

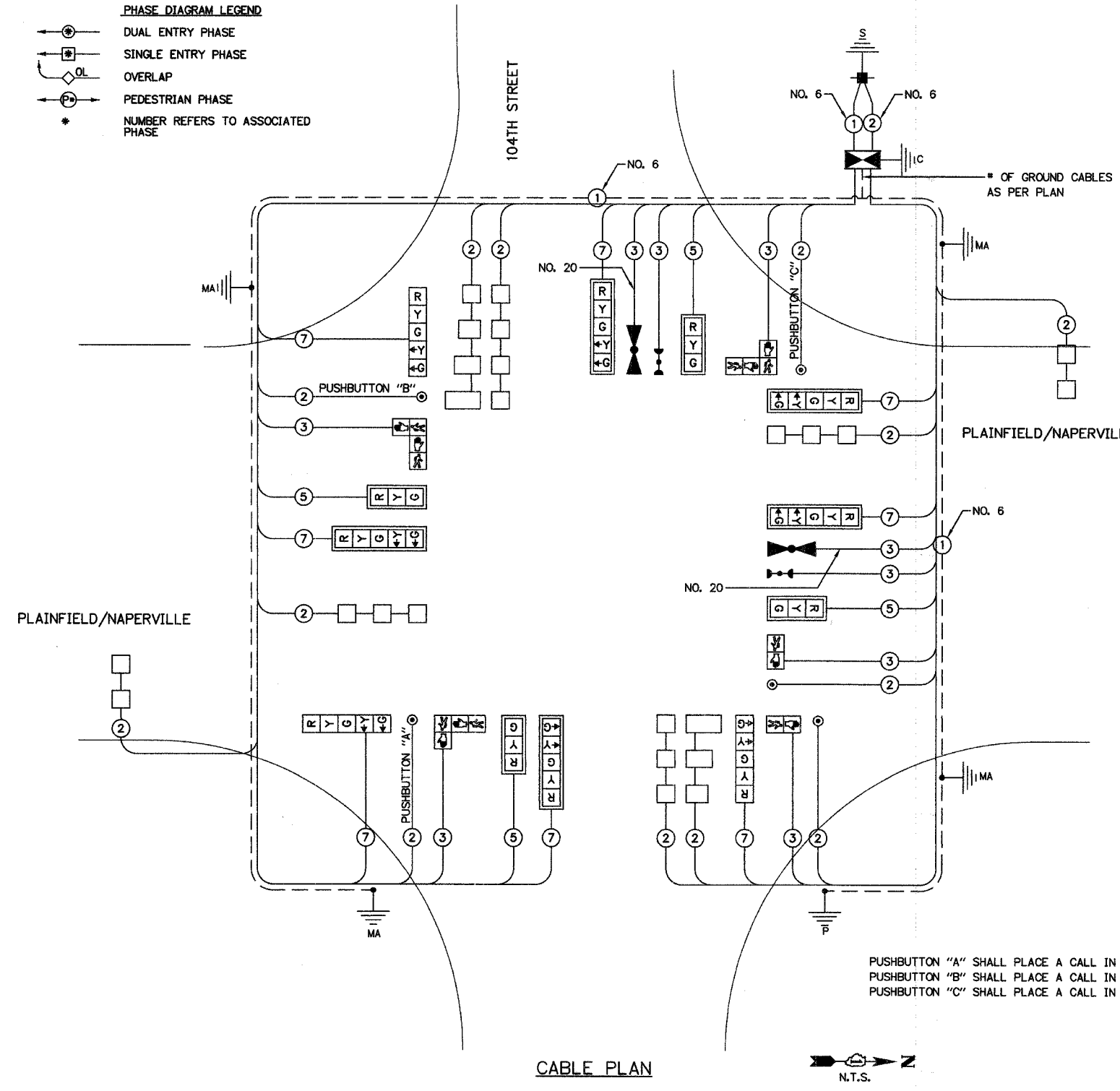
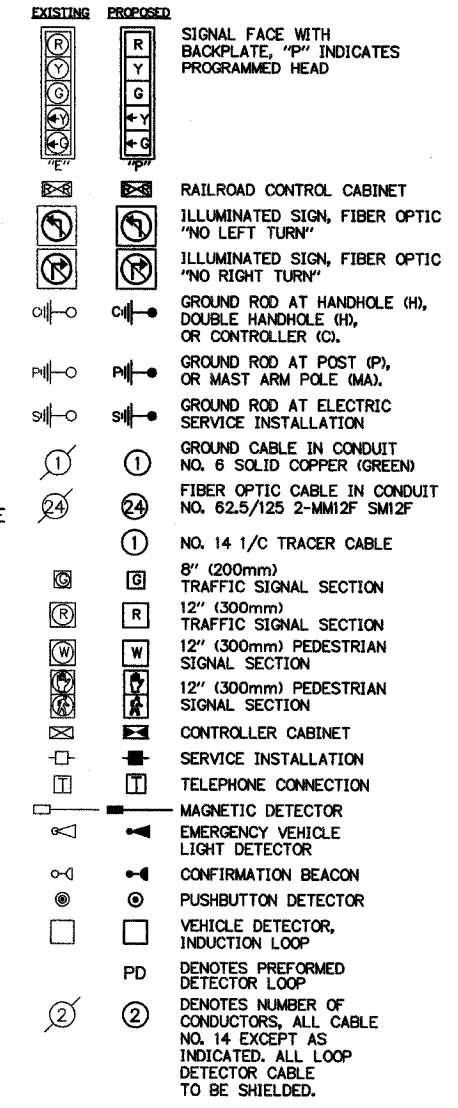
PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	→	↑



EMERGENCY VEHICLE PREEMPTION DIAGRAM



CABLE PLAN LEGEND



CABLE PLAN

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMP	WATTAGE	LED	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
(YELLOW)	12	135	25	0.25	75.0
(GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN	0	84	35	0.05	0.0
FLASHER	0		25		0.0
ENERGY COST TO:				TOTAL =	541.2

FOUNDATION (DEPTH)	FT (m)	CABLE SLACK	FT (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	8.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
TYPE D-CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L= (6m+L)=
30", TYPE E	15 (4.6)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
36", TYPE E	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
		FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

WILL COUNTY DEPARTMENT OF HIGHWAYS
 16841 WEST LARAWAY ROAD
 JOLIET, ILLINOIS 60433
 ENERGY SUPPLY: CONTACT: MR. JERRY SANDRETTO
 PHONE: (630) 421-6182
 COMPANY: NAPERVILLE ELECTRIC COMPANY

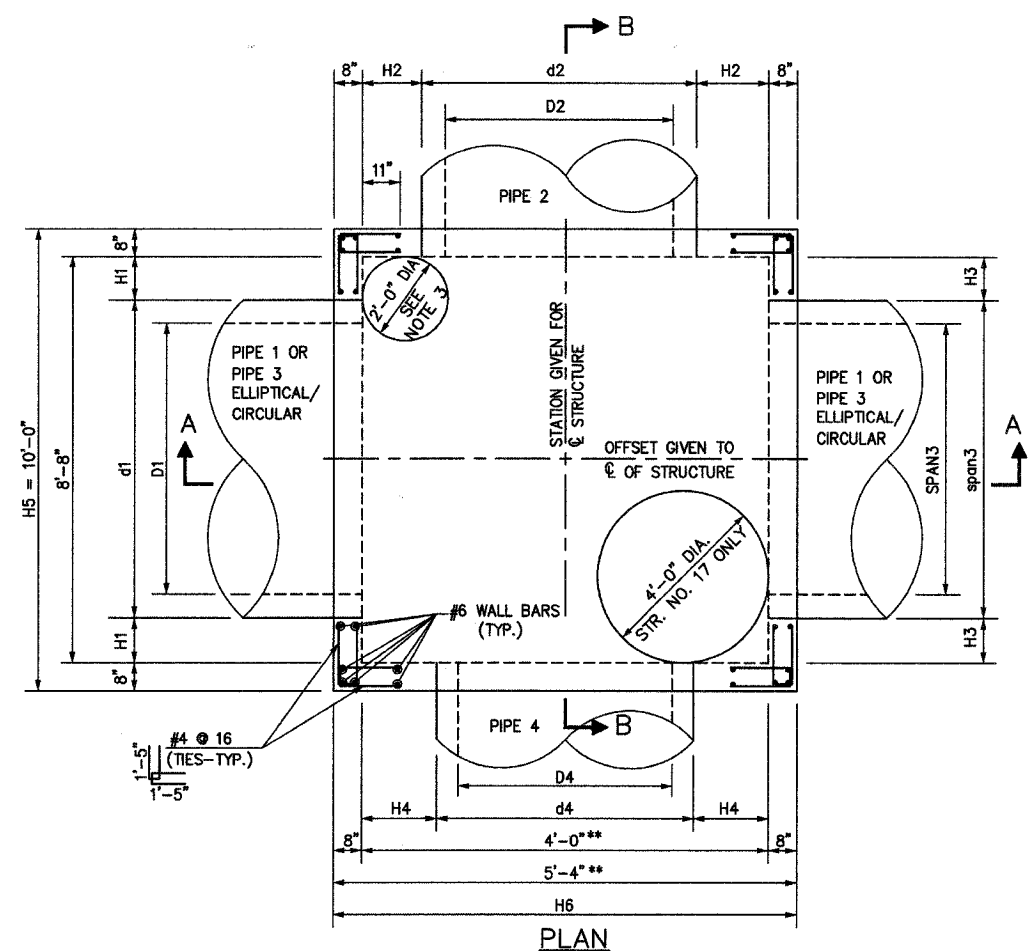
NO.	DATE	REVISION	BY

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
CABLE PLAN
104TH STREET

McDonough Associates Inc. Engineers/Architects
 DESIGNED BY: MJT
 CHECKED BY: NKU
 DRAWN BY: MJT

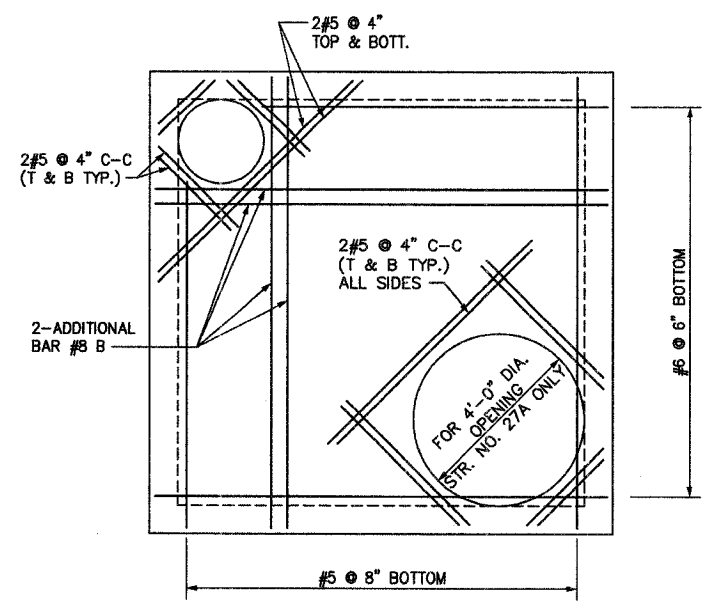
SCALE: N.T.S.

DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\TS 104th.dwg
 PLOT DATE: 07/08/05 - 13.04

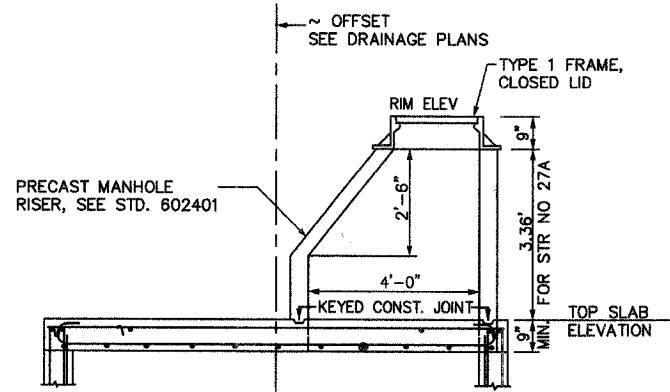


PLAN
**ADD 1'-0" FOR STRUCTURE NO. 25

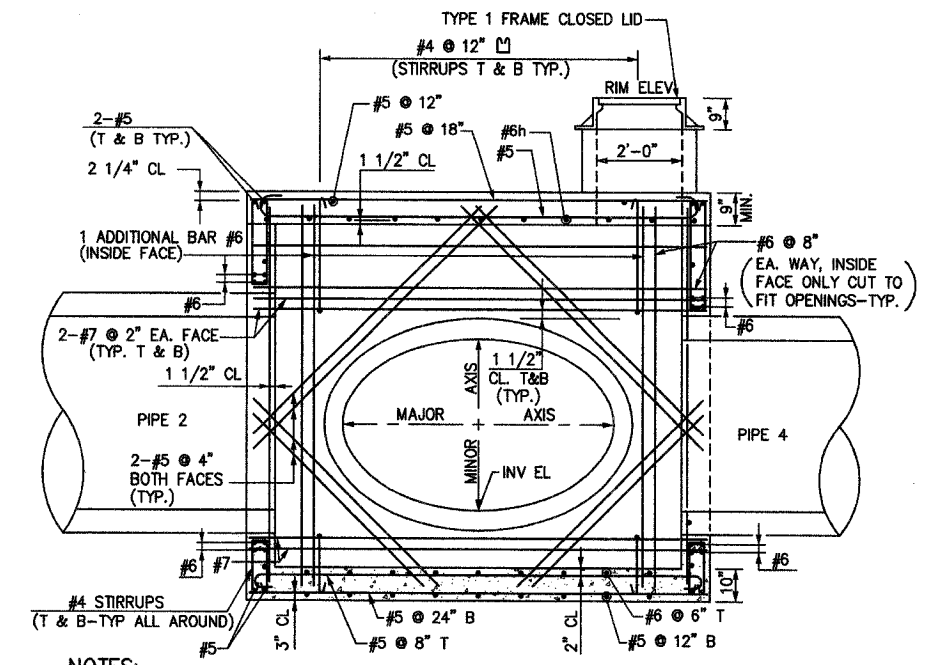
- NOTES:
1. THE CONTRACTOR SHALL FURNISH AND INSTALL CAST IRON STEPS IN ACCORDANCE W/ STANDARD 602701 @ 12"-16" CENTERS.
 2. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS IN ACCORDANCE WITH ARTICLE 105.04 OF THE STANDARD SPECIFICATIONS.
 3. THE CONTRACTOR SHALL REFER TO DRAINAGE PLANS FOR LOCATION OF MANHOLE RIM OPENING.



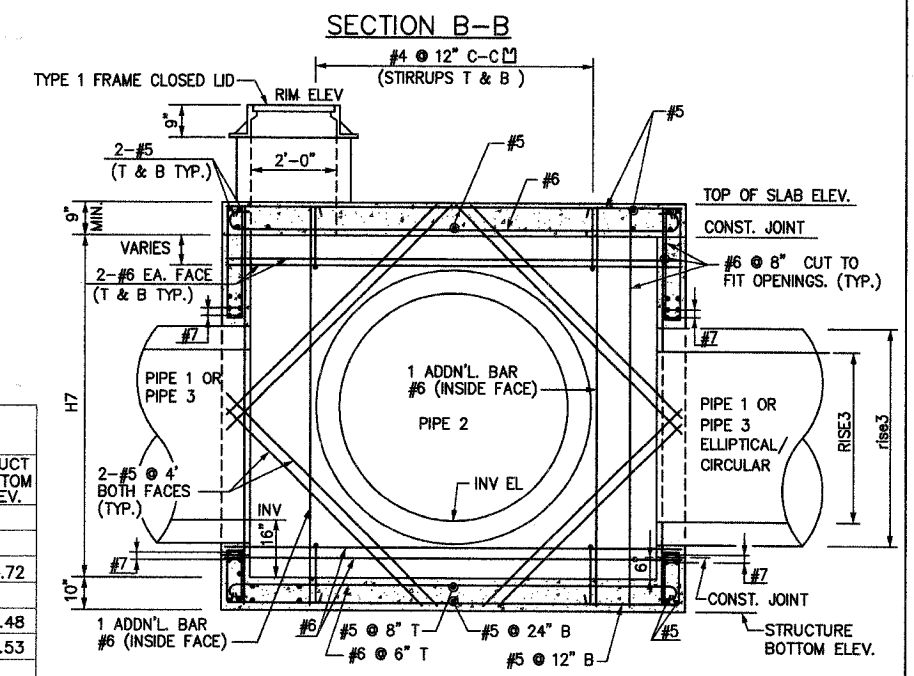
PLAN OF TOP SLAB (SHOWING REINFORCEMENT)



SEE SECTION B-B FOR REINFORCEMENT



- NOTES:
1. TOP REINFORCEMENT OF ROOF SLAB SHALL BE PROVIDED FOR ALL STRUCTURES.
 2. TOP & BOTTOM REINFORCEMENT OF ROOF SLAB SHALL BE EPOXY COATED FOR ALL STRUCTURES.



SECTION A-A

BASIS OF PAYMENT:
TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR JUNCTION CHAMBER NO. 1

DRAWING NO.	STR. NO.	LOCATION	PIPE 1 - ELLIPTICAL/CIRCULAR		PIPE 2		PIPE 3 - ELLIPTICAL/CIRCULAR		PIPE 4		H1	H2	H3	H4	H5	H6	H7	TOP SLAB ELEV.	RIM ELEV.	STRUCT BOTTOM ELEV.								
			span1 /d1	SPAN1 /D1	INVERT	rise1	RISE1	d2	INVERT	D2											span3 /d3	SPAN3 /D3	INVERT	rise3	RISE3	d4	INVERT	D4
DRN1	25	STA 71+62, 40' RT	63"	53"	635.89	44"	34"	33"	635.89	27"	71"	60"	635.89	49"	38"	30"	635.89	24"	20 ?"	13 ?"	16 ?"	15"	10'-0"	6'-4"	5.59	640.89	641.75	633.72
DRN4	19	STA 108+30, 50' LT.	71"	60"	621.65	49"	38"	-	-	71"	60"	621.65	49"	38"	-	-	-	16 ?"	-	16 ?"	-	10'-0"	5'-4"	5.47	626.53	628.00	619.48	
DRN4	20	STA 109+00, 40' LT.	58"	48"	621.70	-	-	16"	623.00	12"	71"	60"	621.70	49"	38"	-	-	23"	16"	16 ?"	-	10'-0"	5'-4"	6.01	627.12	628.11	619.53	
DRN7	7	STA 148+20, 6' LT.	80"	68"	650.70	55"	43"	16"	652.20	12"	63"	53"	651.45	44"	34"	16"	652.20	12"	12"	16"	20 ?"	16"	10'-0"	5'-4"	6.21	656.32	657.07	648.53
DRN8	24	STA 152+00, 6' LT	80"	68"	650.79	55"	43"	16"	652.88	12"	80"	68"	650.79	55"	43"	16"	652.88	12"	12"	16"	12"	16"	10'-0"	5'-4"	6.42	656.62	657.65	648.62
DRN8	27	STA 153+75, 6' LT	80"	68"	650.87	55"	43"	16"	653.37	12"	80"	68"	650.87	55"	43"	16"	653.37	12"	12"	16"	12"	16"	10'-0"	5'-4"	6.42	656.70	659.38	648.70
DRN8	27A	STA 156+00, 6' LT	16"	12"	653.58	-	-	-	-	80"	68"	650.98	55"	43"	-	-	-	44"	-	12"	-	10'-0"	5'-4"	6.42	656.81	660.92	648.81	

WILL COUNTY DEPARTMENT OF HIGHWAYS
PLAINFIELD-NAPERVILLE ROAD (C.H. 14)
ROADWAY RECONSTRUCTION
DRAINAGE DETAILS
JUNCTION CHAMBER, NO. 1

McDonough Associates Inc.
Engineers/Architects

DESIGNED BY: N.J.
CHECKED BY: JTF
DRAWN BY: JTF

SCALE: N.T.S.

P1
DRAWING ID: G:\20030023 - Plainfield-Naperville Road\dwg\DR DET J.C.dwg
PLOT DATE: 07/08/05 - 14:55