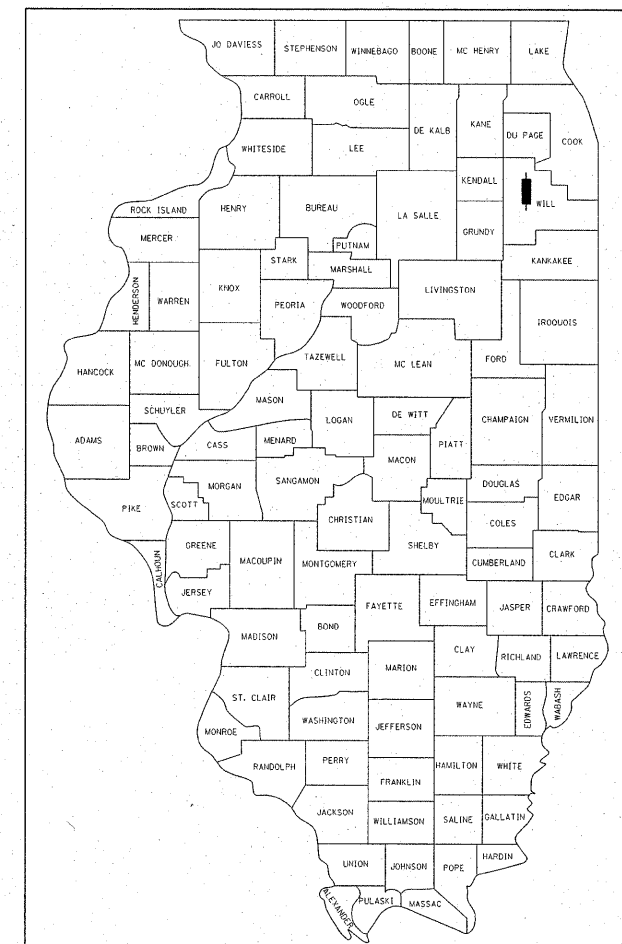


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2010-133-1	WILL	55	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	60F75	
• 846/357				

D-91-226-09



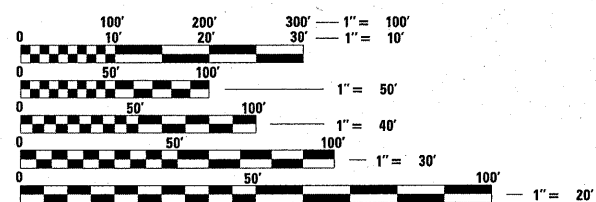
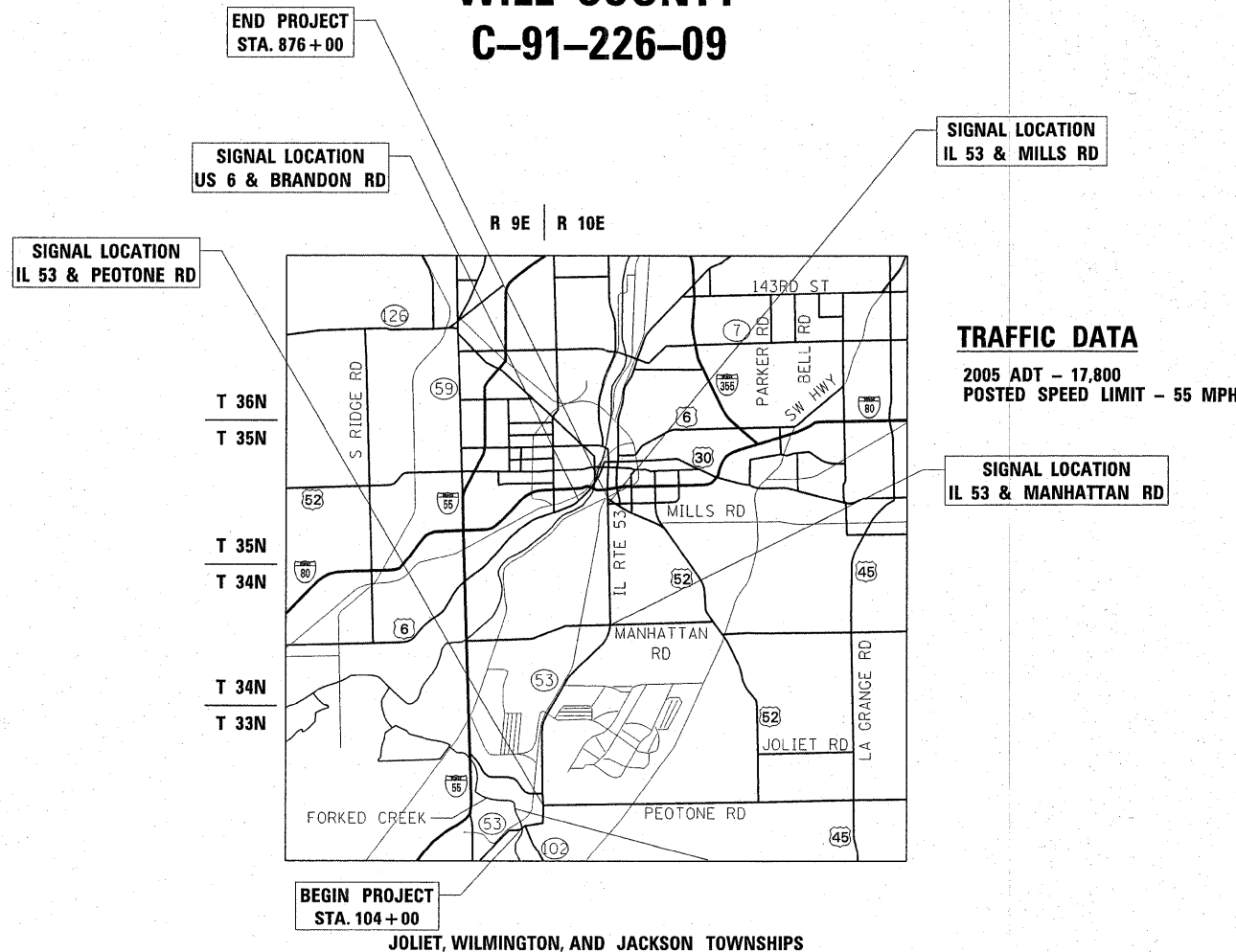
LOCATION OF SECTION INDICATED THUS: - [rectangle] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

F.A.P. 846 / 357 (IL 53)
SECTION 2010-133-1
FORKED CREEK TO US 52
**GUARDRAIL, SHOULDER RUMBLE STRIPS &
TRAFFIC SIGNAL MODERNIZATION**
PROJECT: *HSIP-0005(679)*
**WILL COUNTY
C-91-226-09**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED
WITHIN THE CITIES OF JOLIET AND WILMINGTON,
AND THE VILLAGES OF ELWOOD,
ROCKDALE, AND PRESTON HEIGHTS



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

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

PROJECT ENGINEER: JENPAI CHANG (847) 705-4432
PROJECT MANAGER: KEN ENG

CONTRACT NO. 60F75

GROSS AND NET LENGTH OF PROJECT = 77,200 FT = 14.62 MI.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED OCTOBER 26, 20 10
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 10 20 10
Scott E. Stitt P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

December 10 20 10
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

SHEET NO DESCRIPTION

1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5-8	TYPICAL SECTIONS
9-34	ROADWAY PLANS
35-44	TRAFFIC SIGNAL PLAN SHEETS
45	TRAFFIC SIGNAL DETAIL
46-51	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)
52	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
53	ARTERIAL ROAD INFORMATION SIGN (TC-22)
53A	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
54	SHOULDER RUMBLE STRIP FOR NON-FREEWAY

STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
630001-09	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-07	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-09	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAIL
642001-01	SHOULDER RUMBLE STRIPS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701426-04	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS > 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-07	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-07	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES
814001-02	HANDHOLES

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES WITHIN THE CITIES OF JOLIET AND WILMINGTON AND THE VILLAGES OF ELWOOD, HOMER GLEN, ROCKDALE AND PRESTON HEIGHTS..

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

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

PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL. (TC-13)

THE RESIDENTIAL ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO INSTALLATION OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

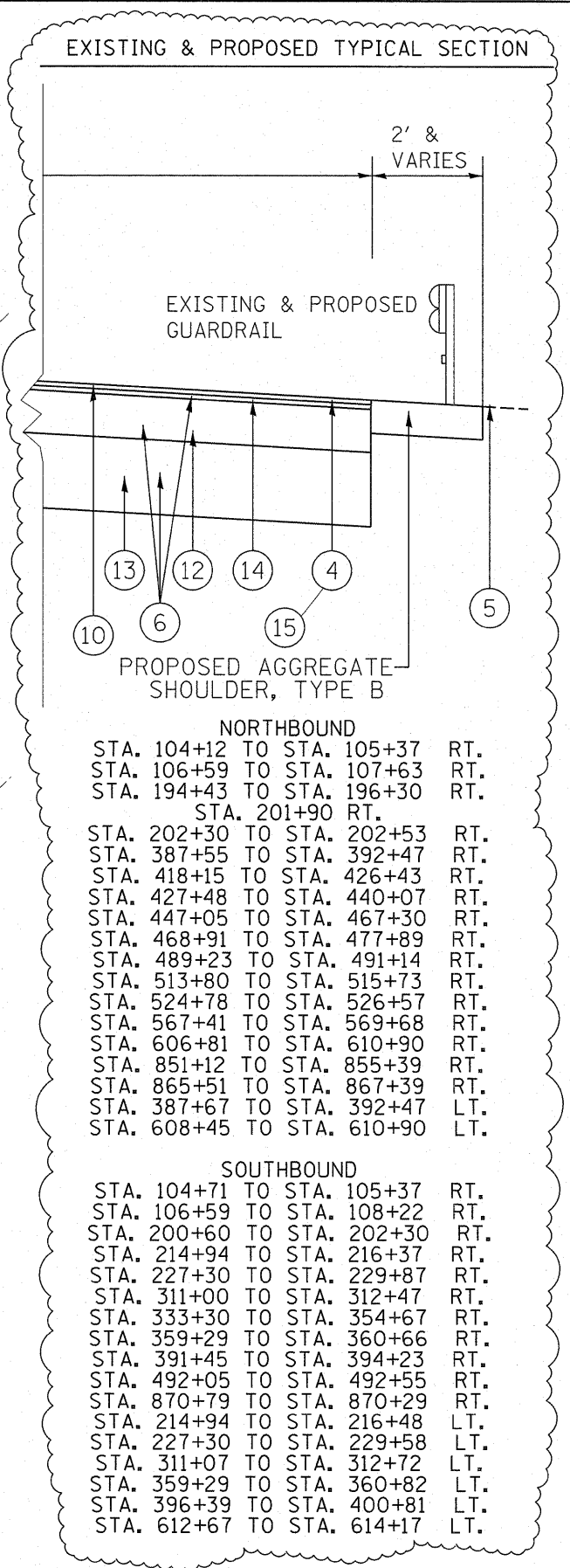
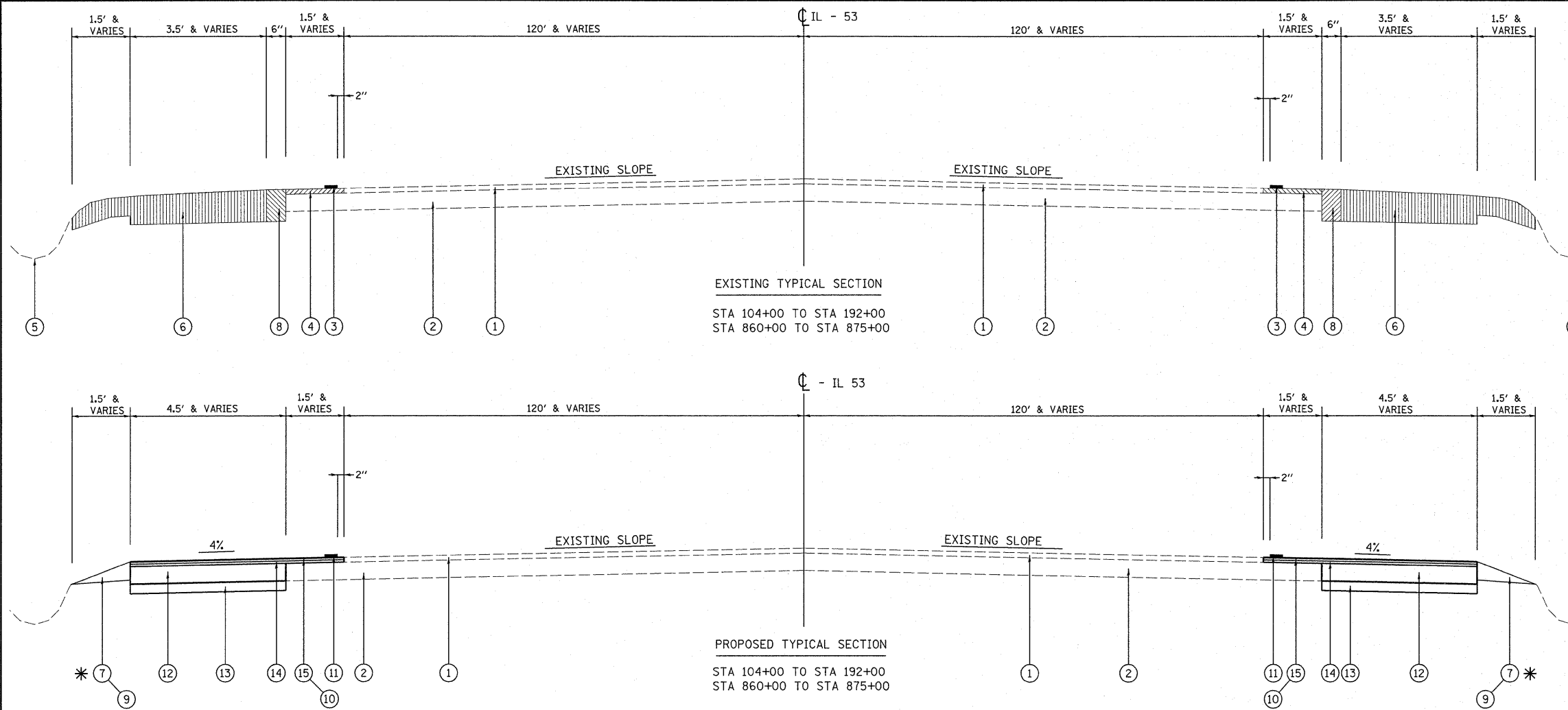
THE RESIDENTIAL ENGINEER SHALL CONTACT MS. CORA MATHIS, AREA TRAFFIC FIELD ENGINEER AT (847) 715-8428 A MINIMUM OF 72 HOURS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE CONTRACTOR SHALL DISPOSE OF ALL CUTTINGS AND SWEEP THE SHOULDER CLEAN PRIOR TO OPENING THE TRAFFIC LANE AND SHOULDER TO TRAFFIC. ALL DISPOSAL AND SWEEPING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF SHOULDER RUMBLE STRIPS.

THE CONTRACTOR SHALL RESTRIPE THE EDGE LINES UPON COMPLETION OF THE MILLING OF THE RUMBLE STRIPS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THERMOPLASTIC PAVEMENT MARKING - LINE 4'.

FILE NAME = c:\pw_work\pwidot\qureshiya\d0212316\0122609-shit-plen.dgn	USER NAME = qureshiya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 846/357 IL 53 FORKED CREEK TO US 52 INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -		•	2010-133-I	WILL	54	2			
PLOT DATE = 10/28/2010	CHECKED -	REVISED -	• 846/357		CONTRACT NO. 60F75			ILLINOIS FED. AID PROJECT				
	DATE -	REVISED -	SCALE: NONE		SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.			

SUMMARY OF QUANTITIES			URBAN 90% FED. 10% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				SUMMARY OF QUANTITIES				TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 IL 53 ROADWAY	FAP 846 0021 IL 53 AT PEOTONE	FAP 846 0021 IL 53 AT MANHATTAN	FAP 846 0021 IL 53 AT MILLS	FAP 357 0021 US 6 AT BRANDON	CODE NO	ITEM	UNIT		ROADWAY				
•X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	2		1	1											
•X8140074	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	16		9		7										
•X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	3		1	1	1										
•X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1750		900	100	750										
•X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	80		80												
•X8807665	SIGNAL HEAD .LED, 1-SECTION, POST MOUNTED, RETROFIT	EACH	1				1										
•X8950210	REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	1		1												
Z0002005	ATTENUATOR BASE	SO YD	52	52													
Z0030030	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1													
Z0030150	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1													
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	52	52													
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1													
* SPECIALTY ITEMS																	



EXISTING TYPICAL SECTION
STA 104+00 TO STA 192+00
STA 860+00 TO STA 875+00

PROPOSED TYPICAL SECTION
STA 104+00 TO STA 192+00
STA 860+00 TO STA 875+00

LEGEND

- ① EXISTING HOT-MIX ASPHALT SURFACE
- ② EXISTING P.C.C. BASE COURSE
- ③ EXISTING PAVEMENT MARKING LINE, 4"
- ④ EXISTING HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑤ EXISTING AGGREGATE OR GRASS SHOULDER
- ⑥ PROPOSED REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- ⑦ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑧ PROPOSED PAVEMENT REMOVAL
- ⑨ PROPOSED GRADING AND SHAPING SHOULDERS (WHERE NECESSARY)
- ⑩ PROPOSED SHOULDER RUMBLE STRIPES, (16" WIDE)
- ⑪ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 4"
- ⑫ PROPOSED HOT-MIX ASPHALT BASE COURSE, 6" (IN 2 LIFTS)
- ⑬ PROPOSED SUBBASE GRANULAR MATERIAL TYPE B, 4"
- ⑭ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 1"
- ⑮ PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS(%)
HMA SHOULDER	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5MM), 1 1/2"	4% @ 70 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"	4% @ 50 GYR.
HOT-MIX ASPHALT SHOULDER, 6" (HMA BINDER, IL-19MM)	2% @ 30 GYR.

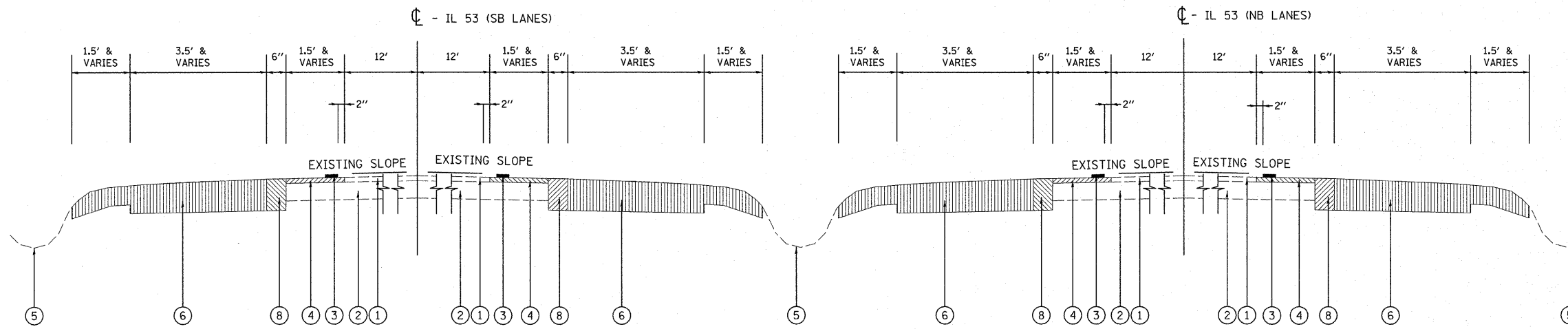
NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/M.

"THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS."
"FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS."

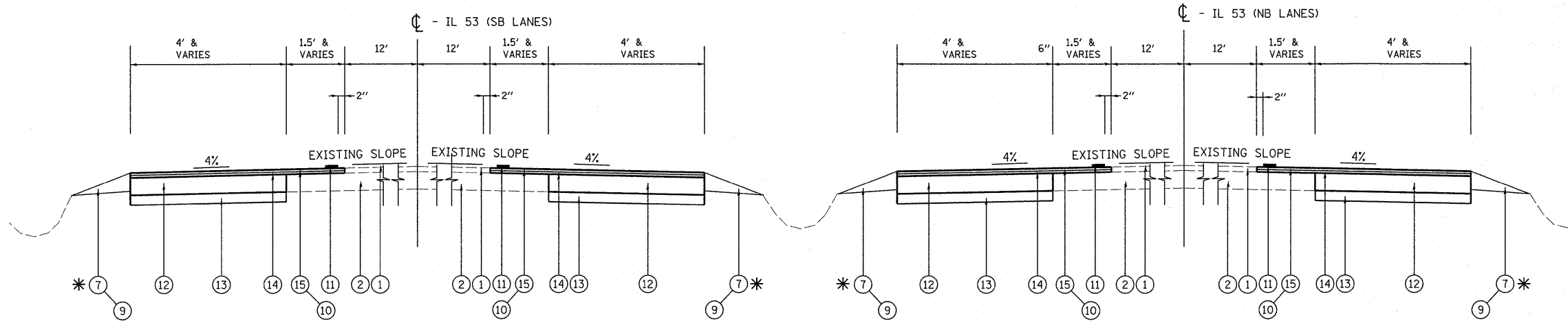
NOTE:

* AGGREGATE SHOULDER, TYPE B SHALL BE PLACED IN GAPS BETWEEN THE PROPOSED SHOULDER AND THE EXISTING OR PROPOSED GUARDRAIL. THE THICKNESS AT THE AGGREGATE SHALL BE 4 INCHES OR AS DIRECTED BY THE ENGINEER.

BETWEEN STA 267+00 TO STA 282+00 AND STA 600+00 TO STA 615+00 ROADWORK WILL BE LIMITED TO PROPOSED "SHOULDER RUMBLE STRIP", THE OUTSIDE AND INSIDE LANE LINES SHALL ALSO BE RE-STRIPED WITH "THERMOPLASTIC PAVEMENT MARKING - LINE, 4 INCHES"



EXISTING TYPICAL SECTION
 STA 192+00 TO STA 267+00
 STA 282+00 TO STA 586+00



PROPOSED TYPICAL SECTION
 STA 192+00 TO STA 267+00
 STA 282+00 TO STA 586+00

LEGEND

- ① EXISTING HOT-MIX ASPHALT SURFACE
- ② EXISTING P.C.C. BASE COURSE
- ③ EXISTING PAVEMENT MARKING LINE, 4"
- ④ EXISTING HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑤ EXISTING AGGREGATE OR GRASS SHOULDER
- ⑥ PROPOSED REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- ⑦ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑧ PROPOSED PAVEMENT REMOVAL
- ⑨ PROPOSED GRADING AND SHAPING SHOULDERS (WHERE NECESSARY)
- ⑩ PROPOSED SHOULDER RUMBLE STRIPES, (16" WIDE)
- ⑪ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 4"
- ⑫ PROPOSED HOT-MIX ASPHALT BASE COURSE, 6" (IN 2 LIFTS)
- ⑬ PROPOSED SUBBASE GRANULAR MATERIAL TYPE B, 4"
- ⑭ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 1"
- ⑮ PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"

NOTE:

BETWEEN STA 267+00 TO STA 282+00 AND STA 600+00 TO STA 615+00 ROADWORK WILL BE LIMITED TO PROPOSED "SHOULDER RUMBLE STRIP". THE OUTSIDE AND INSIDE LANE LINES SHALL ALSO BE RE-STRIPED WITH "THERMOPLASTIC PAVEMENT MARKING - LINE, 4 INCHES"

* AGGREGATE SHOULDER, TYPE B SHALL BE PLACED IN GAPS BETWEEN THE PROPOSED SHOULDER AND THE EXISTING OR PROPOSED GUARDRAIL. THE THICKNESS AT THE AGGREGATE SHALL BE 4 INCHES OR AS DIRECTED BY THE ENGINEER.

EXISTING & PROPOSED TYPICAL SECTION

EXISTING & PROPOSED GUARDRAIL

PROPOSED AGGREGATE SHOULDER, TYPE B

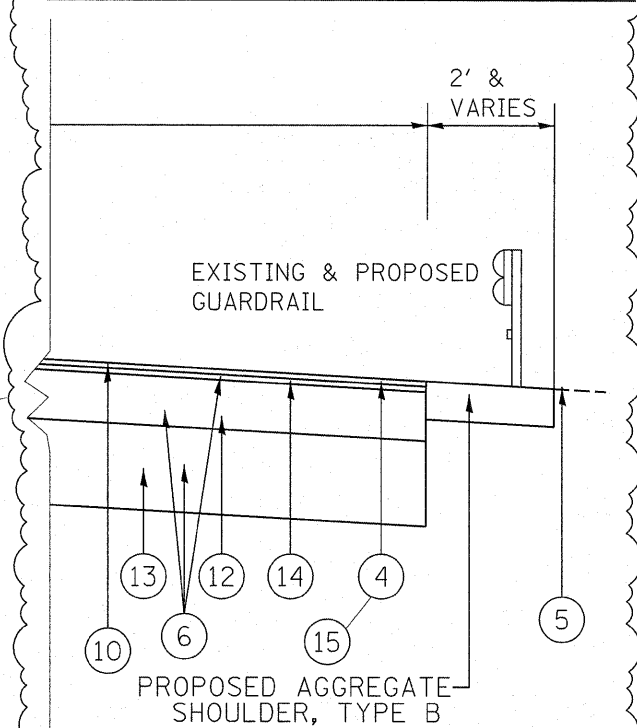
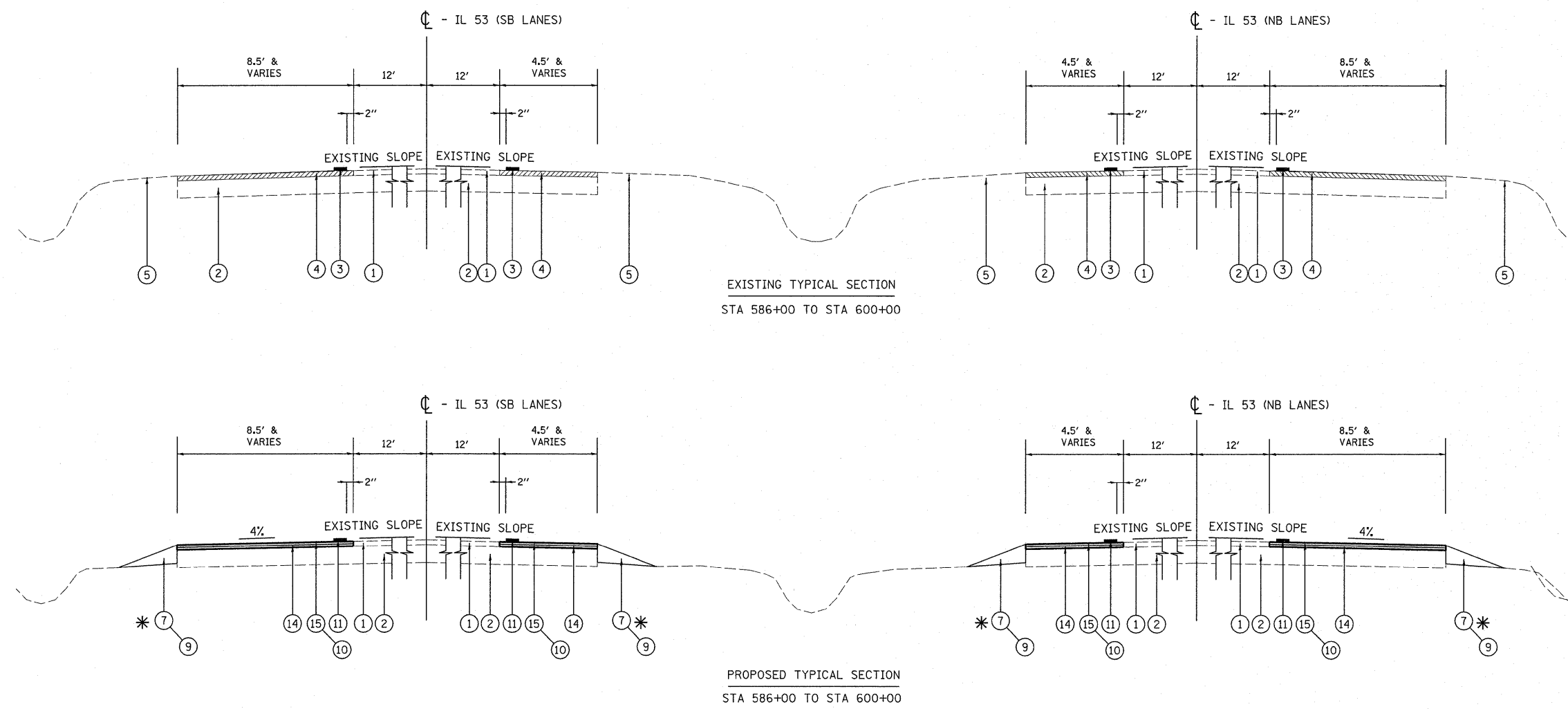
NORTHBOUND

- STA. 104+12 TO STA. 105+37 RT.
- STA. 106+59 TO STA. 107+63 RT.
- STA. 194+43 TO STA. 196+30 RT.
- STA. 201+90 RT.
- STA. 202+30 TO STA. 202+53 RT.
- STA. 387+55 TO STA. 392+47 RT.
- STA. 418+15 TO STA. 426+43 RT.
- STA. 427+48 TO STA. 440+07 RT.
- STA. 447+05 TO STA. 467+30 RT.
- STA. 468+91 TO STA. 477+89 RT.
- STA. 489+23 TO STA. 491+14 RT.
- STA. 513+80 TO STA. 515+73 RT.
- STA. 524+78 TO STA. 526+57 RT.
- STA. 567+41 TO STA. 569+68 RT.
- STA. 606+81 TO STA. 610+90 RT.
- STA. 851+12 TO STA. 855+39 RT.
- STA. 865+51 TO STA. 867+39 RT.
- STA. 387+67 TO STA. 392+47 LT.
- STA. 608+45 TO STA. 610+90 LT.

SOUTHBOUND

- STA. 104+71 TO STA. 105+37 RT.
- STA. 106+59 TO STA. 108+22 RT.
- STA. 200+60 TO STA. 202+30 RT.
- STA. 214+94 TO STA. 216+37 RT.
- STA. 227+30 TO STA. 229+87 RT.
- STA. 311+00 TO STA. 312+47 RT.
- STA. 333+30 TO STA. 354+67 RT.
- STA. 359+29 TO STA. 360+66 RT.
- STA. 391+45 TO STA. 394+23 RT.
- STA. 492+05 TO STA. 492+55 RT.
- STA. 870+79 TO STA. 870+29 RT.
- STA. 214+94 TO STA. 216+48 LT.
- STA. 227+30 TO STA. 229+58 LT.
- STA. 311+07 TO STA. 312+72 LT.
- STA. 359+29 TO STA. 360+82 LT.
- STA. 396+39 TO STA. 400+81 LT.
- STA. 612+67 TO STA. 614+17 LT.

EXISTING & PROPOSED TYPICAL SECTION



- NORTHBOUND**
- STA. 104+12 TO STA. 105+37 RT.
 - STA. 106+59 TO STA. 107+63 RT.
 - STA. 194+43 TO STA. 196+30 RT.
 - STA. 201+90 RT.
 - STA. 202+30 TO STA. 202+53 RT.
 - STA. 387+55 TO STA. 392+47 RT.
 - STA. 418+15 TO STA. 426+43 RT.
 - STA. 427+48 TO STA. 440+07 RT.
 - STA. 447+05 TO STA. 467+30 RT.
 - STA. 468+91 TO STA. 477+89 RT.
 - STA. 489+23 TO STA. 491+14 RT.
 - STA. 513+80 TO STA. 515+73 RT.
 - STA. 524+78 TO STA. 526+57 RT.
 - STA. 567+41 TO STA. 569+68 RT.
 - STA. 606+81 TO STA. 610+90 RT.
 - STA. 851+12 TO STA. 855+39 RT.
 - STA. 865+51 TO STA. 867+39 RT.
 - STA. 387+67 TO STA. 392+47 LT.
 - STA. 608+45 TO STA. 610+90 LT.
- SOUTHBOUND**
- STA. 104+71 TO STA. 105+37 RT.
 - STA. 106+59 TO STA. 108+22 RT.
 - STA. 200+60 TO STA. 202+30 RT.
 - STA. 214+94 TO STA. 216+37 RT.
 - STA. 227+30 TO STA. 229+87 RT.
 - STA. 311+00 TO STA. 312+47 RT.
 - STA. 333+30 TO STA. 354+67 RT.
 - STA. 359+29 TO STA. 360+66 RT.
 - STA. 391+45 TO STA. 394+23 RT.
 - STA. 492+05 TO STA. 492+55 RT.
 - STA. 870+79 TO STA. 870+29 RT.
 - STA. 214+94 TO STA. 216+48 LT.
 - STA. 227+30 TO STA. 229+58 LT.
 - STA. 311+07 TO STA. 312+72 LT.
 - STA. 359+29 TO STA. 360+82 LT.
 - STA. 396+39 TO STA. 400+81 LT.
 - STA. 612+67 TO STA. 614+17 LT.

LEGEND

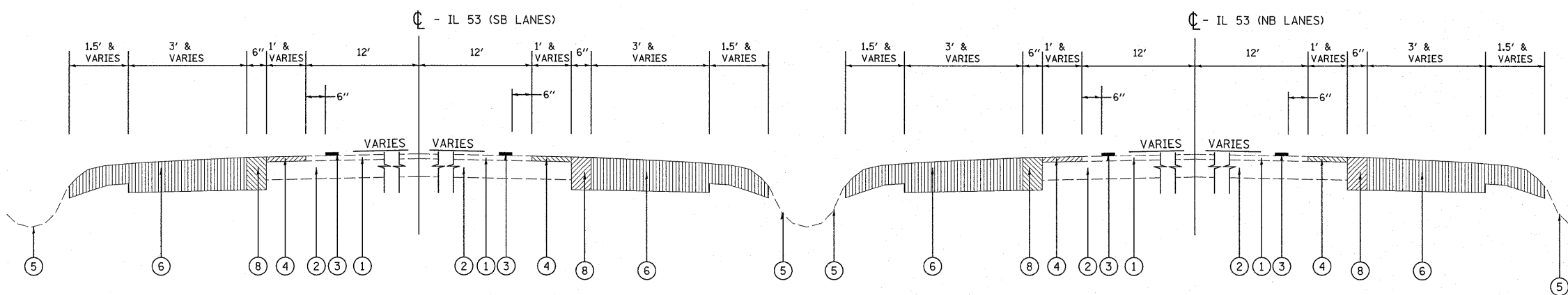
- ① EXISTING HOT-MIX ASPHALT SURFACE
- ② EXISTING P.C.C. BASE COURSE
- ③ EXISTING PAVEMENT MARKING LINE, 4"
- ④ EXISTING HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑤ EXISTING AGGREGATE OR GRASS SHOULDER
- ⑥ PROPOSED REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- ⑦ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑧ PROPOSED PAVEMENT REMOVAL
- ⑨ PROPOSED GRADING AND SHAPING SHOULDERS (WHERE NECESSARY)
- ⑩ PROPOSED SHOULDER RUMBLE STRIPES, (16" WIDE)
- ⑪ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 4"
- ⑫ PROPOSED HOT-MIX ASPHALT BASE COURSE, 6" (IN 2 LIFTS)
- ⑬ PROPOSED SUBBASE GRANULAR MATERIAL TYPE B, 4"
- ⑭ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 1"
- ⑮ PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"

NOTE:

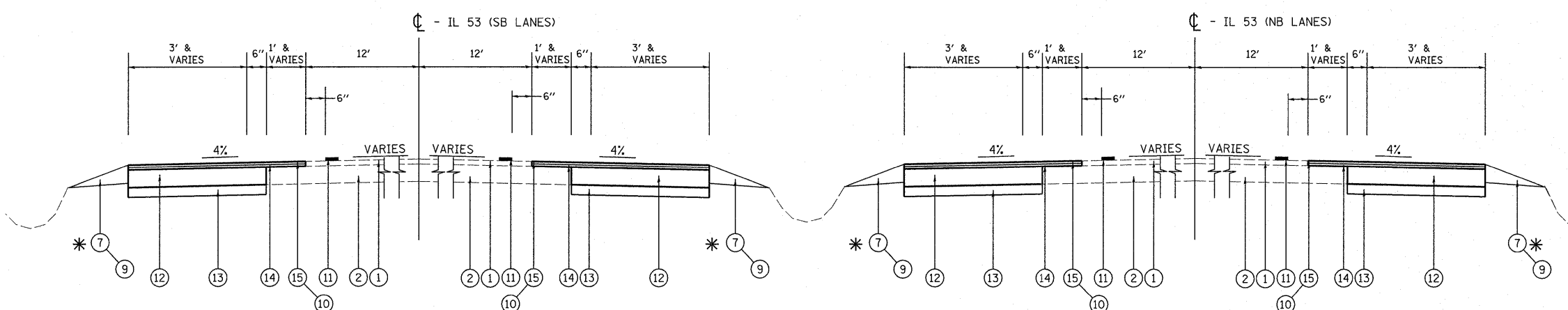
BETWEEN STA 267+00 TO STA 282+00 AND STA 600+00 TO STA 615+00 ROADWORK WILL BE LIMITED TO PROPOSED "SHOULDER RUMBLE STRIP". THE OUTSIDE AND INSIDE LANE LINES SHALL ALSO BE RE-STRIPED WITH "THERMOPLASTIC PAVEMENT MARKING - LINE, 4 INCHES"

* AGGREGATE SHOULDER, TYPE B SHALL BE PLACED IN GAPS BETWEEN THE PROPOSED SHOULDER AND THE EXISTING OR PROPOSED GUARDRAIL. THE THICKNESS AT THE AGGREGATE SHALL BE 4 INCHES OR AS DIRECTED BY THE ENGINEER.

EXISTING & PROPOSED TYPICAL SECTION



EXISTING TYPICAL SECTION
STA 615+00 TO STA 860+00



PROPOSED TYPICAL SECTION
STA 615+00 TO STA 860+00

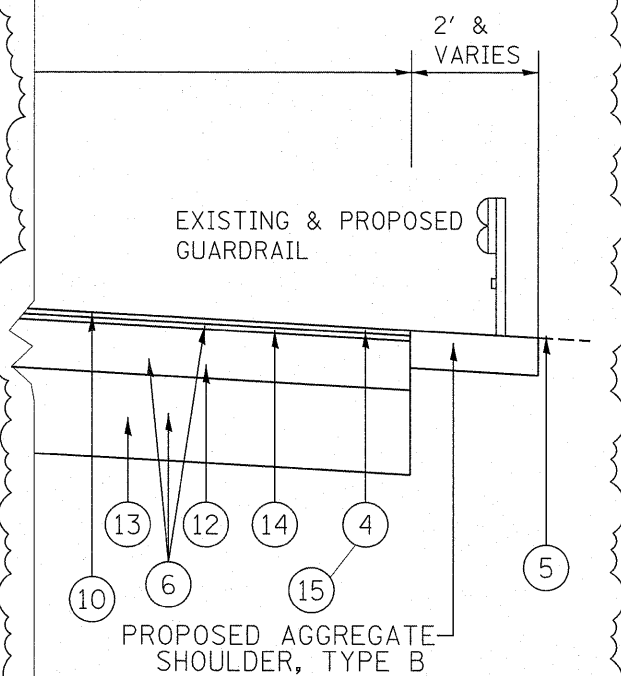
LEGEND

- ① EXISTING HOT-MIX ASPHALT SURFACE
- ② EXISTING P.C.C. BASE COURSE
- ③ EXISTING PAVEMENT MARKING LINE, 4"
- ④ EXISTING HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑤ EXISTING AGGREGATE OR GRASS SHOULDER
- ⑥ PROPOSED REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- ⑦ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑧ PROPOSED PAVEMENT REMOVAL
- ⑨ PROPOSED GRADING AND SHAPING SHOULDERS (WHERE NECESSARY)
- ⑩ PROPOSED SHOULDER RUMBLE STRIPES, (16" WIDE)
- ⑪ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE, 4"
- ⑫ PROPOSED HOT-MIX ASPHALT BASE COURSE, 6" (IN 2 LIFTS)
- ⑬ PROPOSED SUBBASE GRANULAR MATERIAL TYPE B, 4"
- ⑭ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 1"
- ⑮ PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"

NOTE:

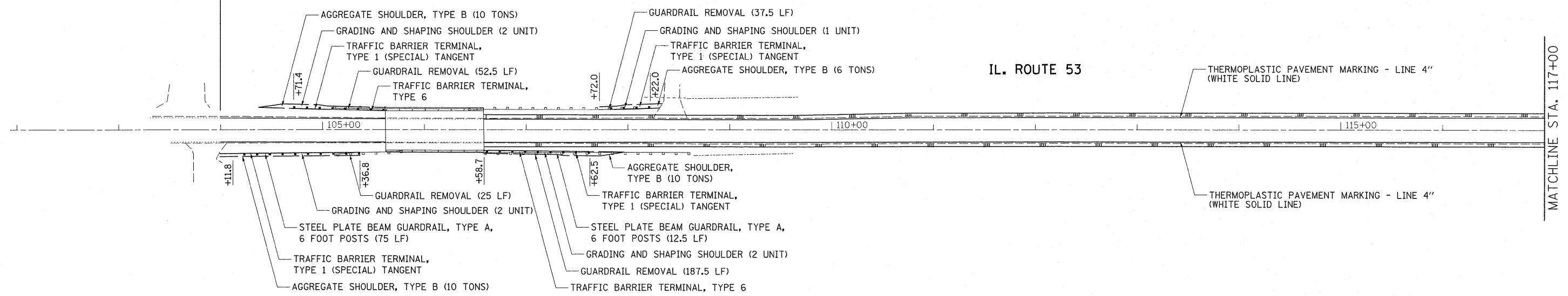
BETWEEN STA 267+00 TO STA 282+00 AND STA 600+00 TO STA 615+00 ROADWORK WILL BE LIMITED TO PROPOSED "SHOULDER RUMBLE STRIP", THE OUTSIDE AND INSIDE LANE LINES SHALL ALSO BE RE-STRIPED WITH "THERMOPLASTIC PAVEMENT MARKING - LINE, 4 INCHES"

* AGGREGATE SHOULDER, TYPE B SHALL BE PLACED IN GAPS BETWEEN THE PROPOSED SHOULDER AND THE EXISTING OR PROPOSED GUARDRAIL. THE THICKNESS AT THE AGGREGATE SHALL BE 4 INCHES OR AS DIRECTED BY THE ENGINEER.

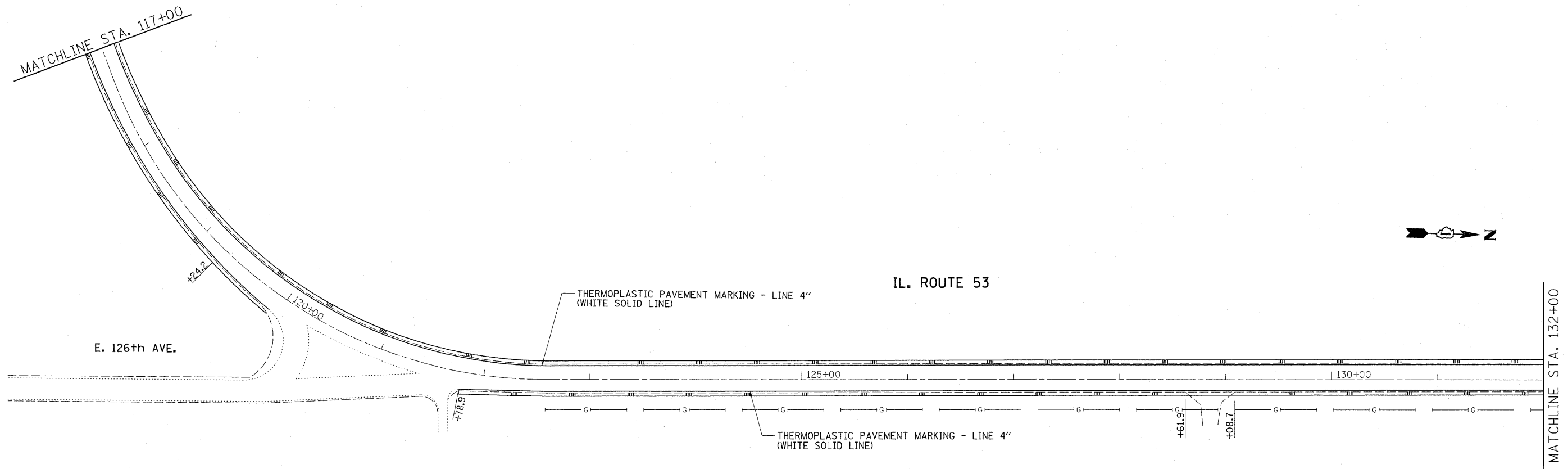


- NORTHBOUND
- STA. 104+12 TO STA. 105+37 RT.
 - STA. 106+59 TO STA. 107+63 RT.
 - STA. 194+43 TO STA. 196+30 RT.
 - STA. 201+90 RT.
 - STA. 202+30 TO STA. 202+53 RT.
 - STA. 387+55 TO STA. 392+47 RT.
 - STA. 418+15 TO STA. 426+43 RT.
 - STA. 427+48 TO STA. 440+07 RT.
 - STA. 447+05 TO STA. 467+30 RT.
 - STA. 468+91 TO STA. 477+89 RT.
 - STA. 489+23 TO STA. 491+14 RT.
 - STA. 513+80 TO STA. 515+73 RT.
 - STA. 524+78 TO STA. 526+57 RT.
 - STA. 567+41 TO STA. 569+68 RT.
 - STA. 606+81 TO STA. 610+90 RT.
 - STA. 851+12 TO STA. 855+39 RT.
 - STA. 865+51 TO STA. 867+39 RT.
 - STA. 387+67 TO STA. 392+47 LT.
 - STA. 608+45 TO STA. 610+90 LT.
- SOUTHBOUND
- STA. 104+71 TO STA. 105+37 RT.
 - STA. 106+59 TO STA. 108+22 RT.
 - STA. 200+60 TO STA. 202+30 RT.
 - STA. 214+94 TO STA. 216+37 RT.
 - STA. 227+30 TO STA. 229+87 RT.
 - STA. 311+00 TO STA. 312+47 RT.
 - STA. 333+30 TO STA. 354+67 RT.
 - STA. 359+29 TO STA. 360+66 RT.
 - STA. 391+45 TO STA. 394+23 RT.
 - STA. 492+05 TO STA. 492+55 RT.
 - STA. 870+79 TO STA. 870+29 RT.
 - STA. 214+94 TO STA. 216+48 LT.
 - STA. 227+30 TO STA. 229+58 LT.
 - STA. 311+07 TO STA. 312+72 LT.
 - STA. 359+29 TO STA. 360+82 LT.
 - STA. 396+39 TO STA. 400+81 LT.
 - STA. 612+67 TO STA. 614+17 LT.

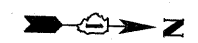
**BEGIN IMPROVEMENT
STA. 104+00**



MATCHLINE STA. 117+00



E. 126th AVE.



LEGEND

▨▨▨▨▨ PROPOSED SHOULDER RUMBLE STRIPS

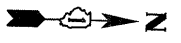
FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
c:\pw_work\pwsdot\qureshiya\d0212337\012609-sh-t-plan.dgn		DRAWN -	REVISED -
PLOT SCALE = 50,0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/28/2010		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

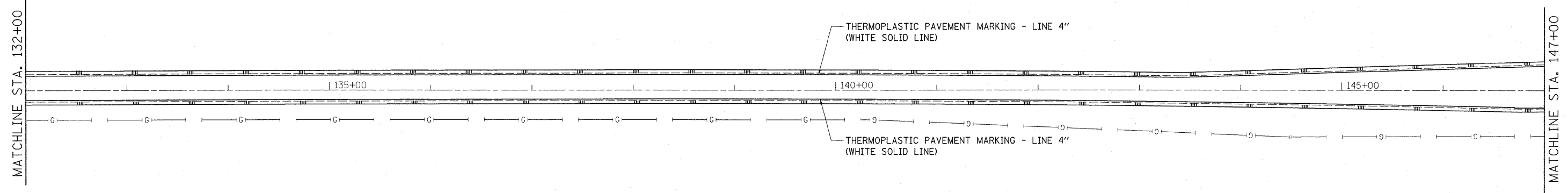
**ROADWAY PLAN
IL. ROUTE 53 (FORKED CREEK - US 52)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

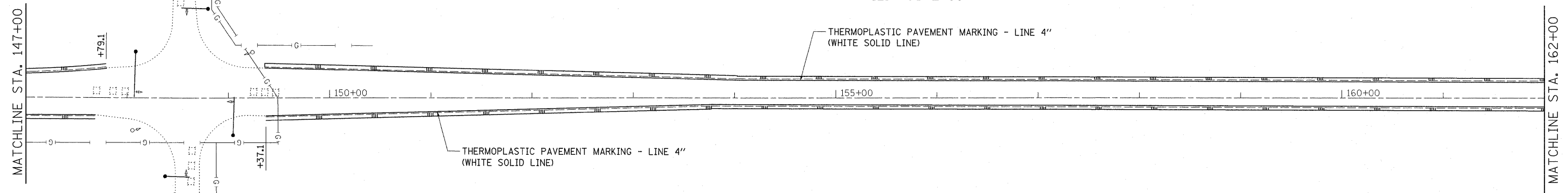
F.A.P. RTE. 846/357	SECTION 2010-133-1	COUNTY WILL	TOTAL SHEETS 54	SHEET NO. 9
CONTRACT NO. 60F75				ILLINOIS FED. AID PROJECT



IL. ROUTE 53



IL. ROUTE 53



LEGEND

▨▨▨▨▨ PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
c:\pw_work\pwsdot\qureshiya\d0212337\0126609-shr-pln.dgn		DRAWN -	REVISED -
PLOT SCALE = 50,0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/28/2010		DATE -	REVISED -

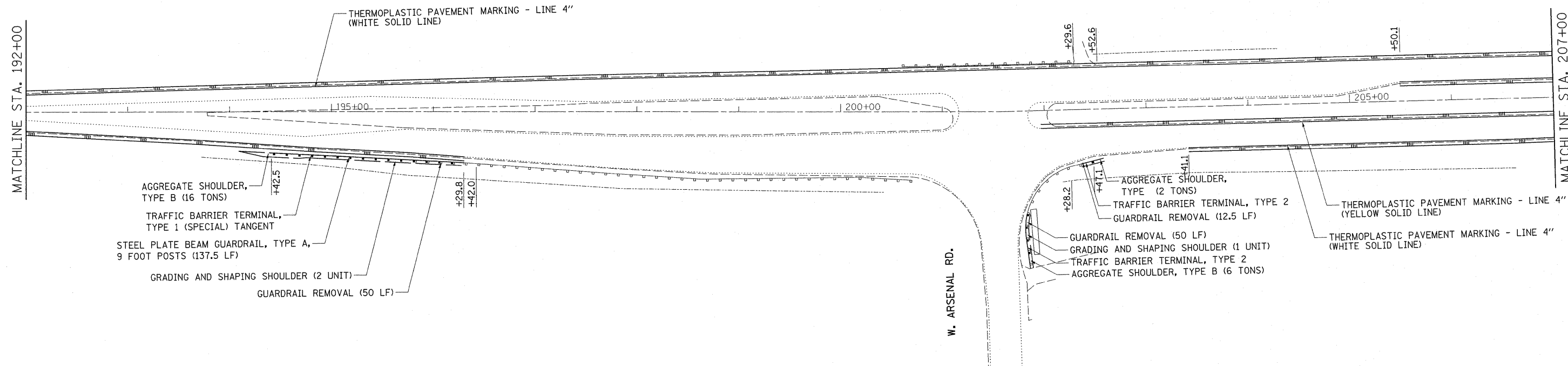
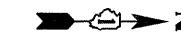
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
IL. ROUTE 53 (FORKED CREEK - US 52)**

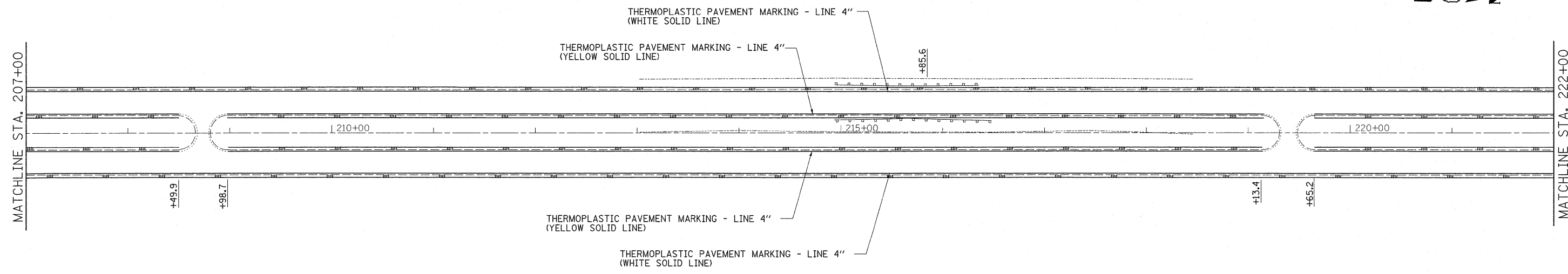
SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846/357	2010-133-1	WILL	54	10
CONTRACT NO. 60F75				
ILLINOIS FED. AID PROJECT				

IL. ROUTE 53



IL. ROUTE 53



LEGEND

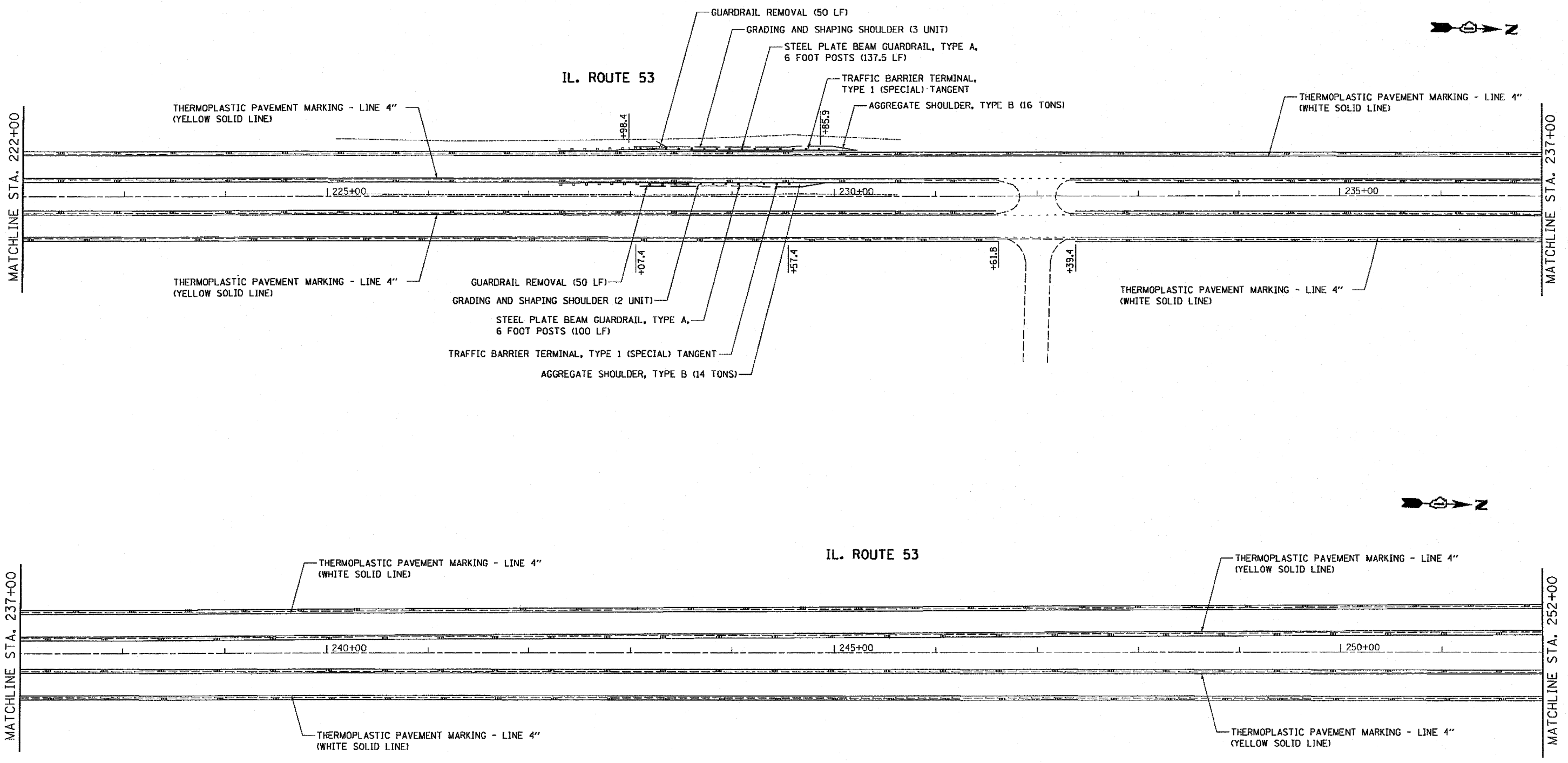
▨▨▨▨▨ PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = qureshya	DESIGNED -	REVISED -
c:\pwwork\pwwid\qureshya\d0212337\012809-shr-plan.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/28/2010		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN			
IL. ROUTE 53 (FORKED CREEK - US 52)			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846/357	2010-133-1	WILL	54	12
CONTRACT NO. 60F75				
ILLINOIS FED. AID PROJECT				



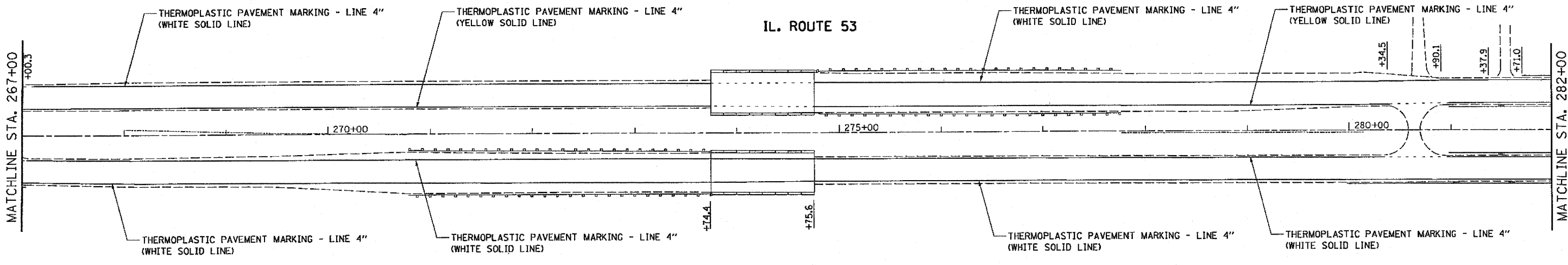
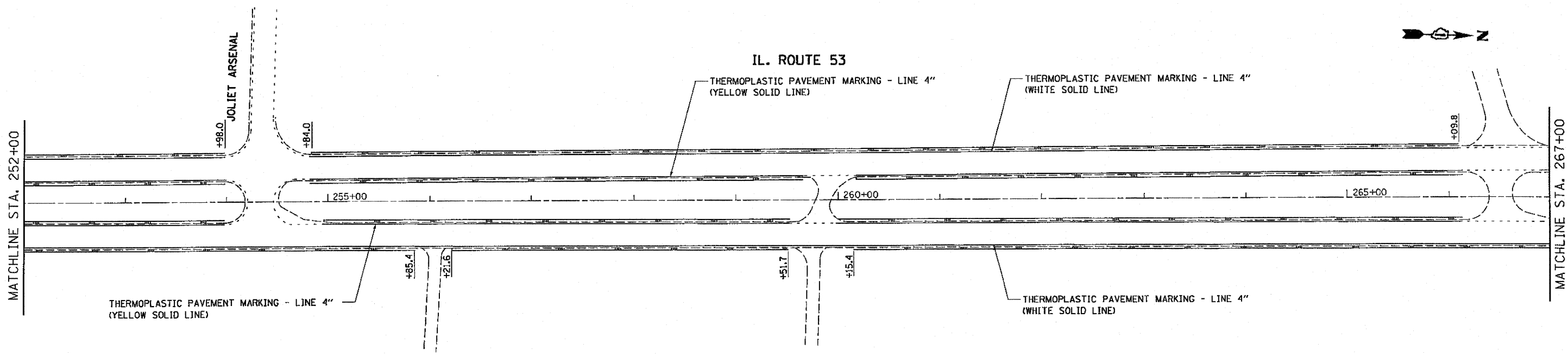
NOTE:

OMIT ANY WORK FROM STATION 249+00 TO STATION 260+00
AND FROM STATION 486+00 TO STATION 496+00.

LEGEND

▨▨▨▨▨ PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
or\pwwork\pwwork\qureshiya\0212337\0122609-plt-pln.dgn		DRAWN -	REVISED -		IL. ROUTE 53 (FORKED CREEK - US 52)			846/357	2010-133-1	WILL	54	13
		CHECKED -	REVISED -		SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60F75		
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



NOTE:

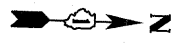
OMIT ANY WORK FROM STATION 249+00 TO STATION 260+00 AND FROM STATION 486+00 TO STATION 496+00.

BETWEEN STA 267+00 TO STA 282+00 AND STA 600+00 TO STA 615+00 ROADWORK WILL BE LIMITED TO PROPOSED "SHOULDER RUMBLE STRIP". THE OUTSIDE AND INSIDE LANE LINES SHALL ALSO BE RE-STRIPED WITH "THERMOPLASTIC PAVEMENT MARKING - LINE, 4 INCHES"

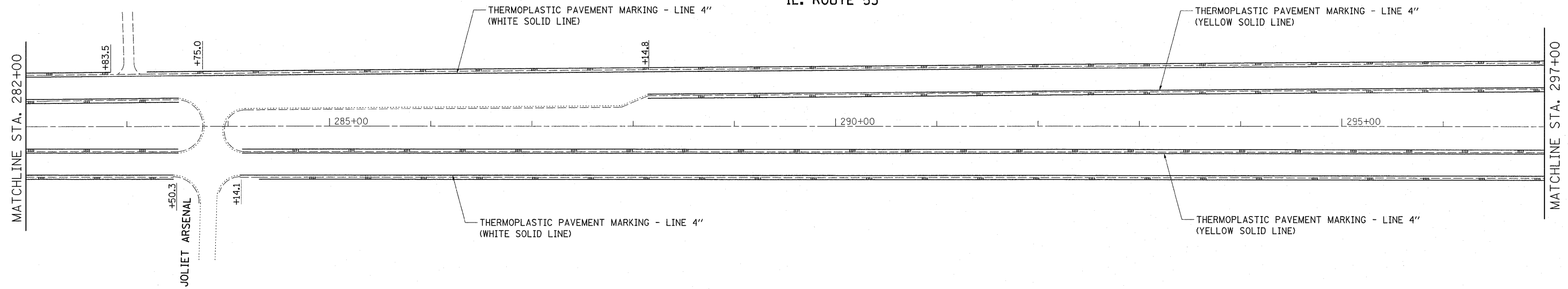
LEGEND

||| ||| PROPOSED SHOULDER RUMBLE STRIPS

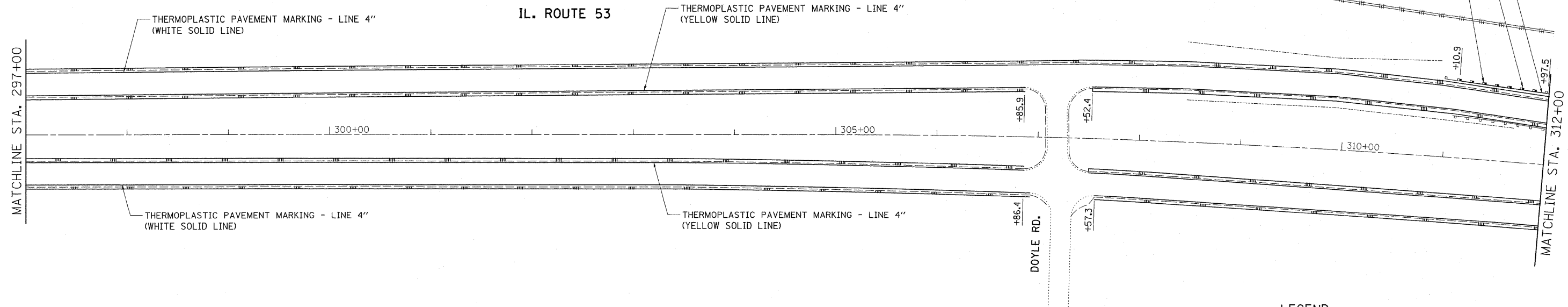
FILE NAME : c:\work\work\dot\qureshiya\d8212337\0122809.sht:plan.dgn	USER NAME : qureshiya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN			F.A.P. RTE. 846/357	SECTION 2010-133-1	COUNTY WILL	TOTAL SHEETS 54	SHEET NO. 14
	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -		IL. ROUTE 53 (FORKED CREEK - US 52)					CONTRACT NO. 60F75		
PLOT DATE = 10/28/2010	CHECKED -	REVISED -	SCALE: 1"=50'			SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT				
	DATE -	REVISED -										



IL. ROUTE 53



IL. ROUTE 53



LEGEND

||| ||| PROPOSED SHOULDER RUMBLE STRIPS

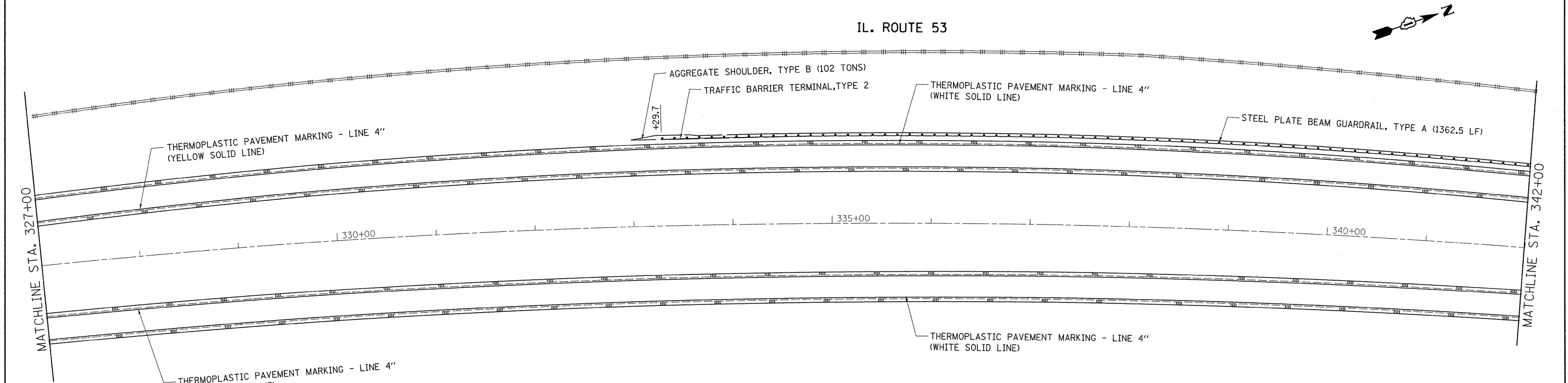
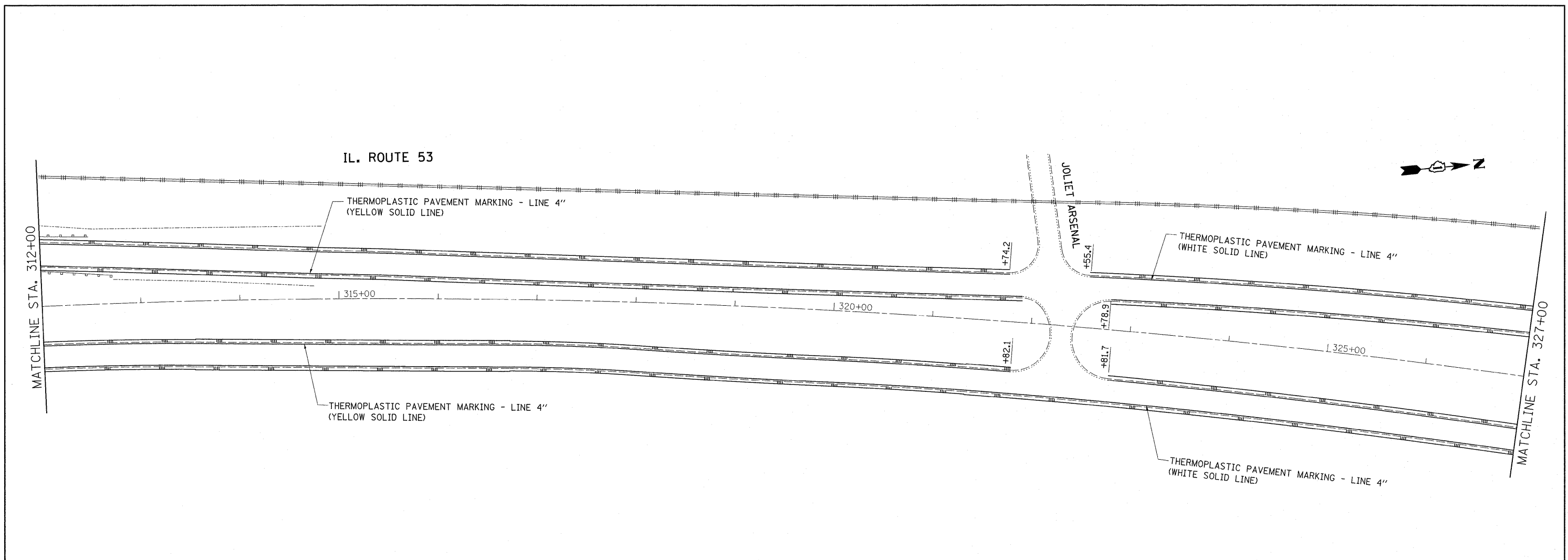
FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
ca:\pw-work\pwwork\qureshiya\d0212337\0126609-sh1-plandgn		DRAWN -	REVISED -
PLOT SCALE = 50,0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/26/2010		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
IL. ROUTE 53 (FORKED CREEK - US 52)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 846/357	SECTION 2010-133-1	COUNTY WILL	TOTAL SHEETS 54	SHEET NO. 15
CONTRACT NO. 60F75			ILLINOIS FED. AID PROJECT	



LEGEND
 ||||| PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
ci:\pw_work\p\dot\qureshiya\d0212337\0126809-shr\plan.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/28/2010		DATE -	REVISED -

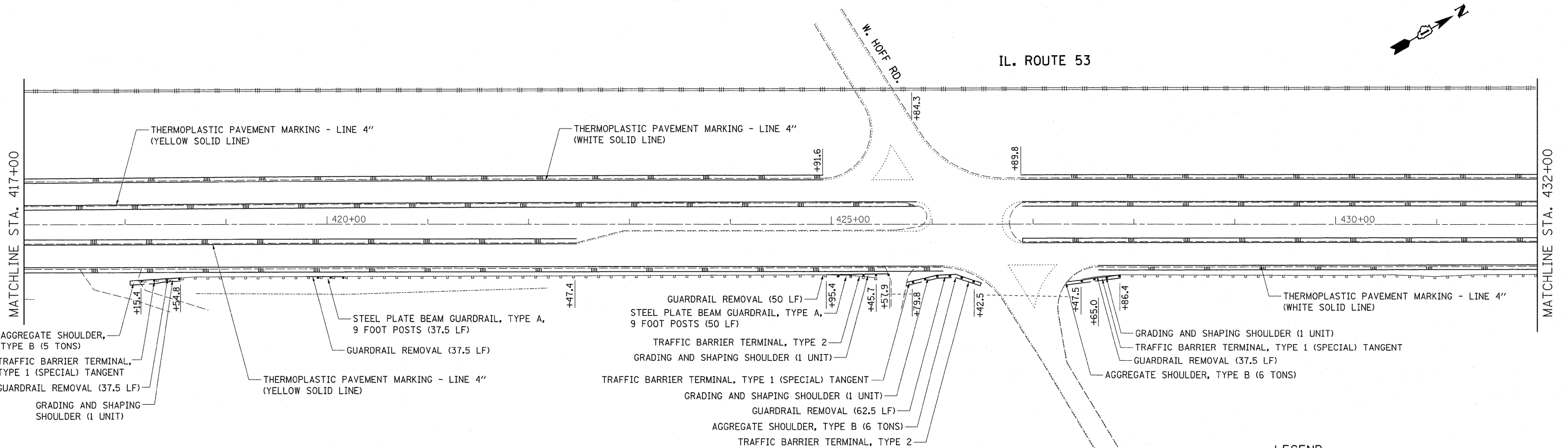
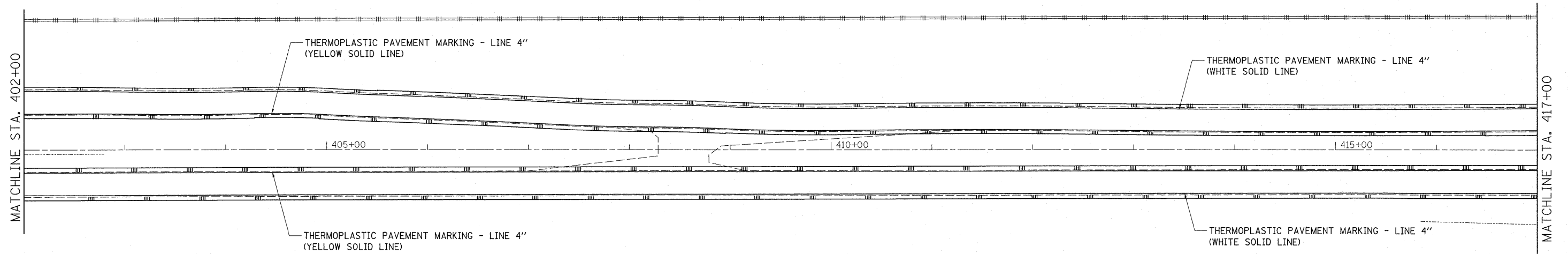
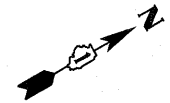
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 IL. ROUTE 53 (FORKED CREEK - US 52)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 846/357	SECTION 2010-133-1	COUNTY WILL	TOTAL SHEETS 54	SHEET NO. 16
				CONTRACT NO. 60F75
ILLINOIS FED. AID PROJECT				

IL. ROUTE 53



LEGEND

▨▨▨▨▨ PROPOSED SHOULDER RUMBLE STRIPS

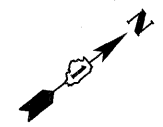
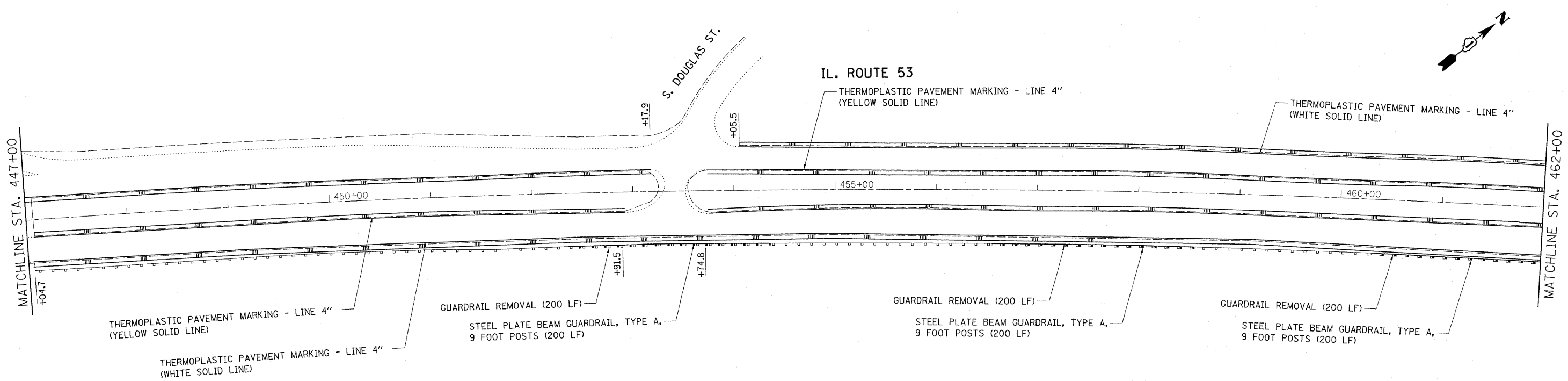
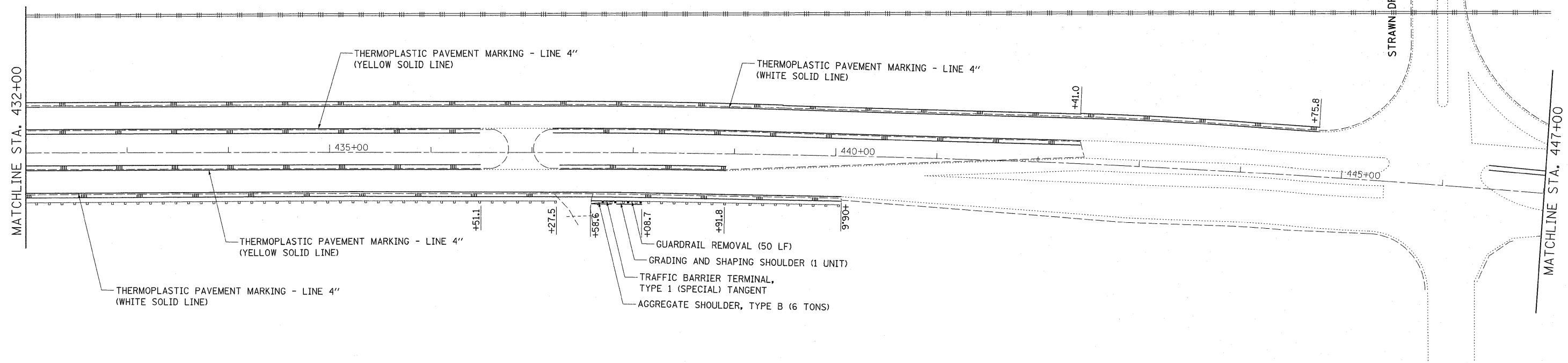
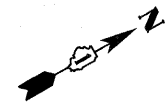
FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
c:\pwork\pwork\qureshiya\0212337\012609-shr-plan.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/28/2010	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
IL. ROUTE 53 (FORKED CREEK - US 52)			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. 846/357	SECTION 2010-133-1	COUNTY WILL	TOTAL SHEETS 54	SHEET NO. 19
CONTRACT NO. 60F75				
ILLINOIS FED. AID PROJECT				

IL. ROUTE 53



LEGEND

▨▨▨▨▨ PROPOSED SHOULDER RUMBLE STRIPS

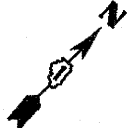
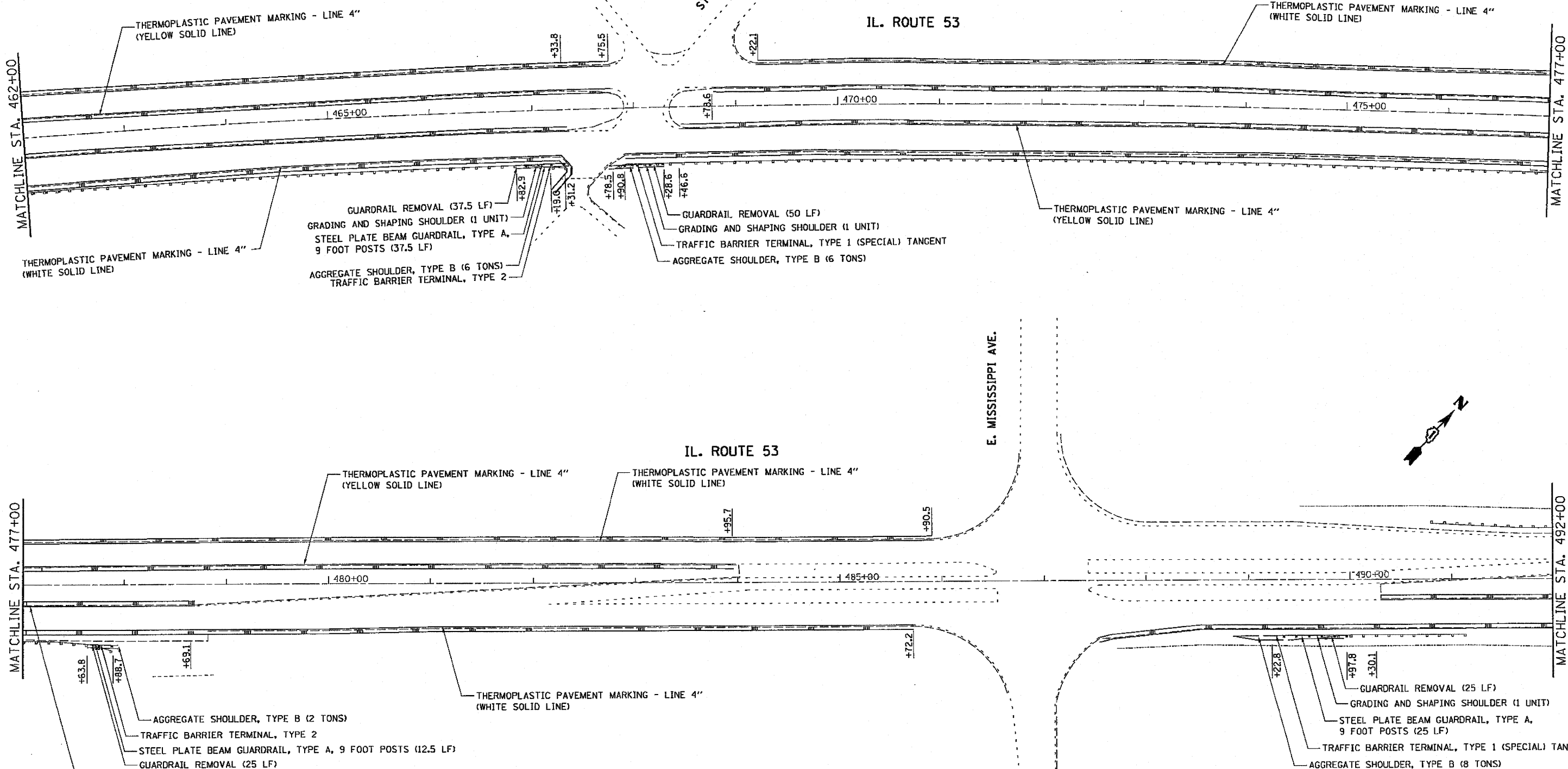
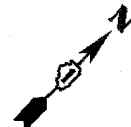
FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
ca:\pw_work\pwwork\qureshiya\0212337\012609-shr-pln.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/28/2010		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
IL. ROUTE 53 (FORKED CREEK - US 52)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846/357	2010-133-1	WILL	54	20
CONTRACT NO. 60F75				
ILLINOIS FED. AID PROJECT				



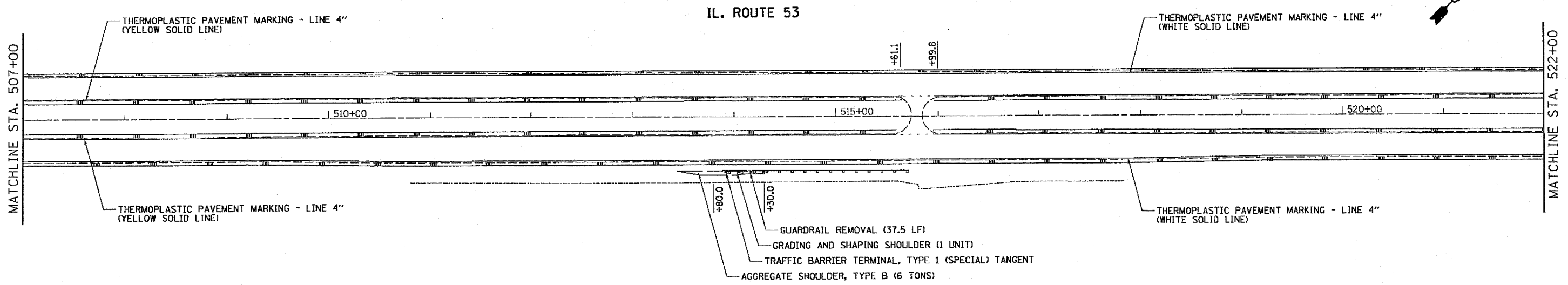
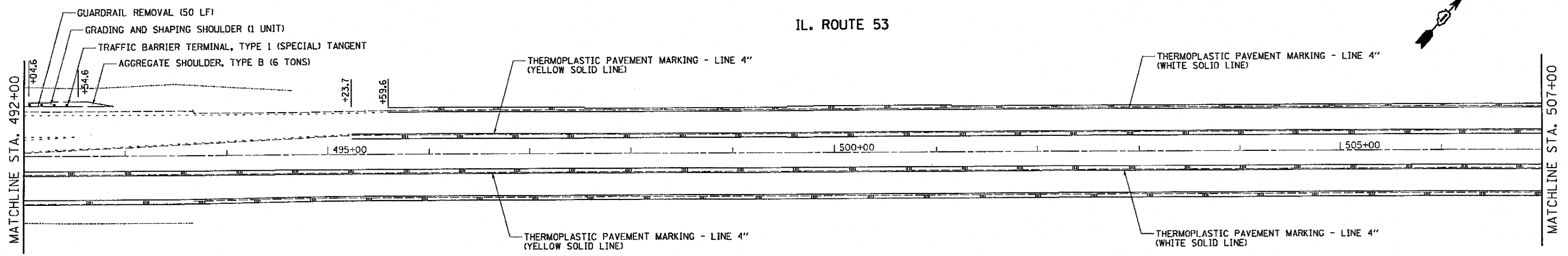
- GUARDRAIL REMOVAL (37.5 LF)
- GRADING AND SHAPING SHOULDER (1 UNIT)
- STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS (37.5 LF)
- AGGREGATE SHOULDER, TYPE B (6 TONS)
- TRAFFIC BARRIER TERMINAL, TYPE 2
- GUARDRAIL REMOVAL (50 LF)
- GRADING AND SHAPING SHOULDER (1 UNIT)
- TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- AGGREGATE SHOULDER, TYPE B (6 TONS)

NOTE:
 OMIT ANY WORK FROM STATION 249+00 TO STATION 260+00
 AND FROM STATION 486+00 TO STATION 496+00.

- GUARDRAIL REMOVAL (25 LF)
- GRADING AND SHAPING SHOULDER (1 UNIT)
- STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS (25 LF)
- TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- AGGREGATE SHOULDER, TYPE B (8 TONS)

LEGEND
 ■■■ PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL ROUTE 53 (FORKED CREEK - US 52)			F.A.P. RTE. 846/357	SECTION 2010-133-1	COUNTY WILL	TOTAL SHEETS 54	SHEET NO. 21
ca:\pwwork\pwwork\qureshiya\0212337\0122609\sh-t-plan.dgn	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -		SCALE: 1"=50'	SHEET NO. OF SHEETS	STA.	TO STA.	CONTRACT NO. 60F75			
	PLOT DATE = 10/26/2010	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



NOTE:
 OMIT ANY WORK FROM STATION 249+00 TO STATION 260+00
 AND FROM STATION 486+00 TO STATION 496+00.

LEGEND
 ■ ■ ■ PROPOSED SHOULDER RUMBLE STRIPS

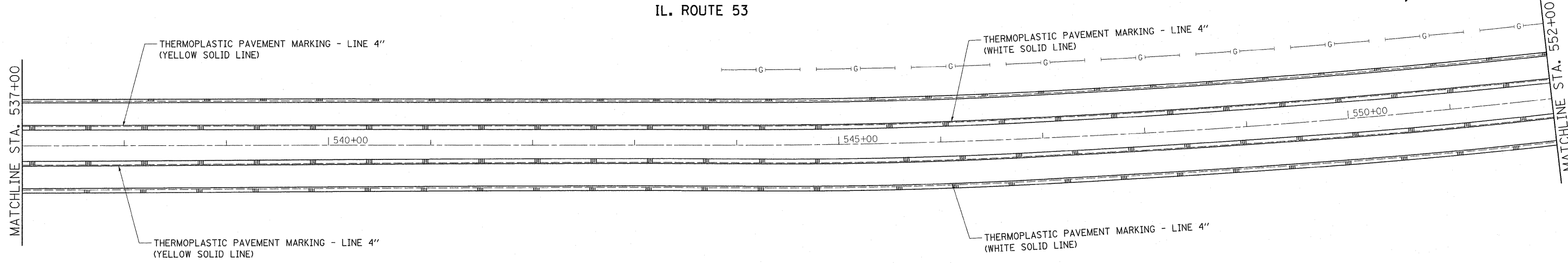
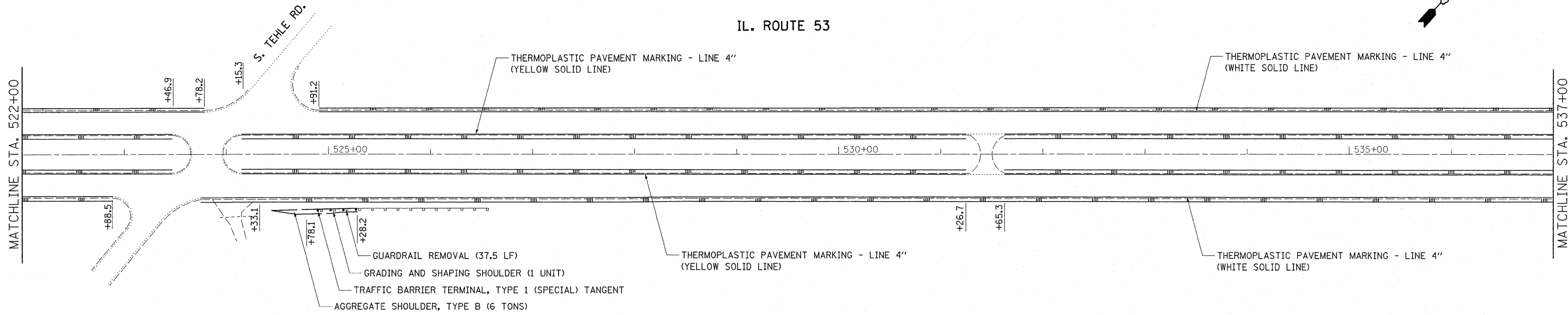
FILE NAME =	USER NAME = qureshaya	DESIGNED -	REVISED -
o:\p\work\pndot\qureshaya\0212337\0122609-shr-plan.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 IL ROUTE 53 (FORKED CREEK - US 52)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 846/357	SECTION 2010-133-1	COUNTY WILL	TOTAL SHEETS 54	SHEET NO. 22
				CONTRACT NO. 60F75
ILLINOIS FED. AID PROJECT				



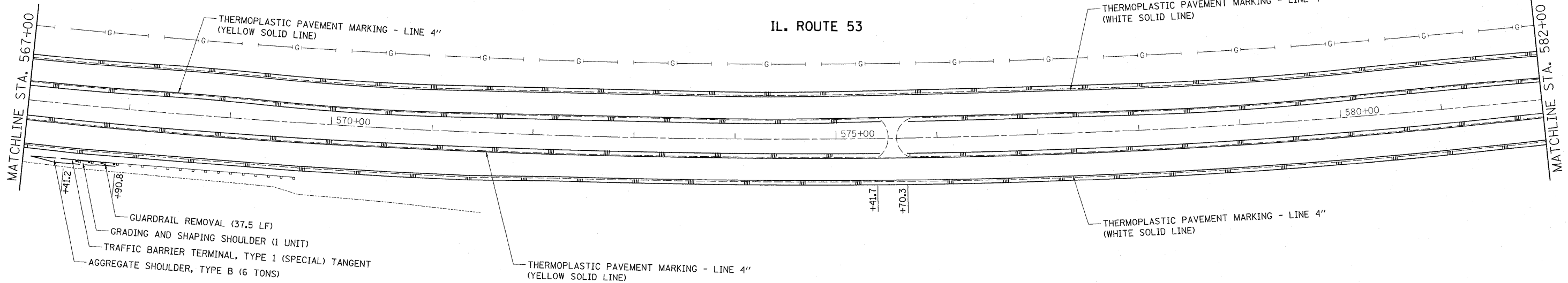
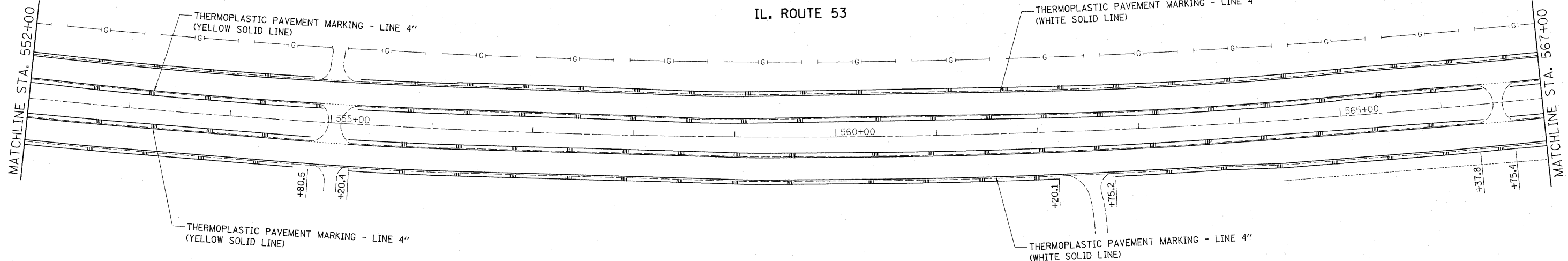
LEGEND
 ||||| PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
ca:\pw_work\pwidot\qureshiya\d0212337\012609-sh-t-plan.dgn		DRAWN -	REVISED -
PLOT SCALE = 50,0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/28/2010		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
IL. ROUTE 53 (FORKED CREEK - US 52)			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. 846/357	SECTION 2010-133-1	COUNTY WILL	TOTAL SHEETS 54	SHEET NO. 23
CONTRACT NO. 60F75				
ILLINOIS FED. AID PROJECT				



- GUARDRAIL REMOVAL (37.5 LF)
- GRADING AND SHAPING SHOULDER (1 UNIT)
- TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- AGGREGATE SHOULDER, TYPE B (6 TONS)

LEGEND
 ||||| PROPOSED SHOULDER RUMBLE STRIPS

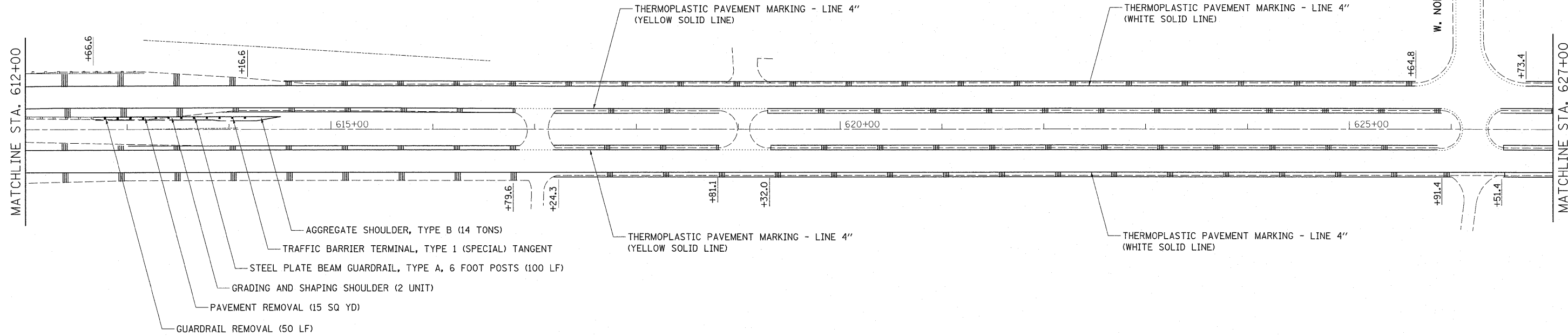
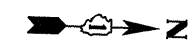
FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
cs:\pw-work\pwsdot\qureshiya\d0212337\012609-shr-plan.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/28/2010	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

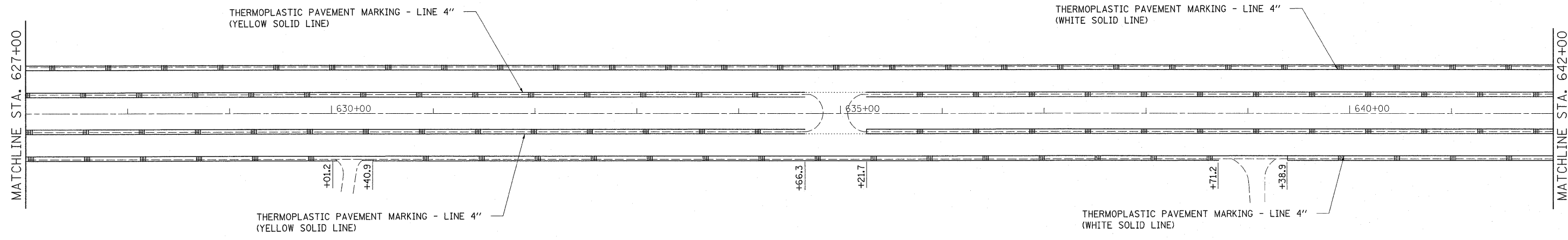
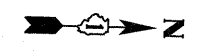
ROADWAY PLAN			
IL. ROUTE 53 (FORKED CREEK - US 52)			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. 846/357	SECTION 2010-133-1	COUNTY WILL	TOTAL SHEETS 54	SHEET NO. 24
CONTRACT NO. 60F75				
ILLINOIS FED. AID PROJECT				

IL. ROUTE 53



IL. ROUTE 53



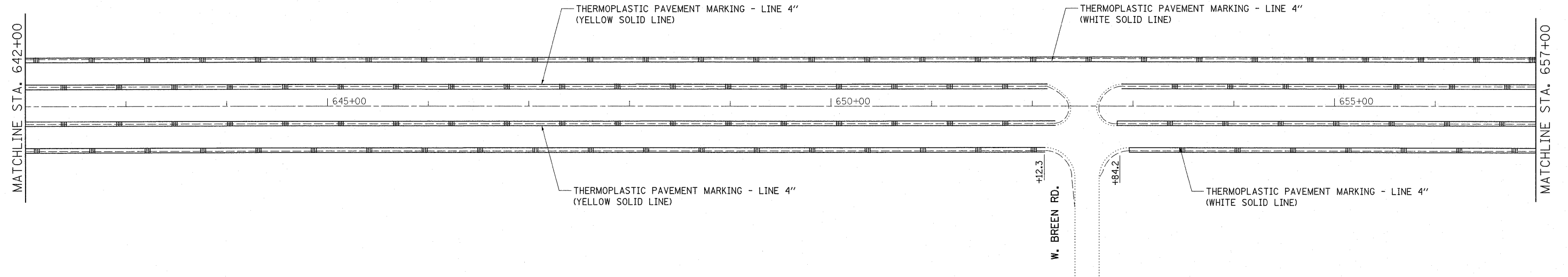
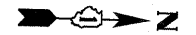
BETWEEN STA 267+00 TO STA 282+00 FOR SB LANES AND STA 270+00 TO STA 276+00 FOR NB LANES AND STA 586+00 TO 613+00 ROADWORK WILL BE LIMITED TO PROPOSED "SHOULDER RUMBLE STRIP" ON THE OUTSIDE LANES AND "PROPOSED RUMBLE STRIP, SPECIAL" ON THE INSIDE LANES. THE OUTSIDE AND INSIDE LANE LINES SHALL ALSO BE RE-STRIPED WITH "THERMOPLASTIC PAVEMENT MARKING - LINE, 4 INCHES"

LEGEND

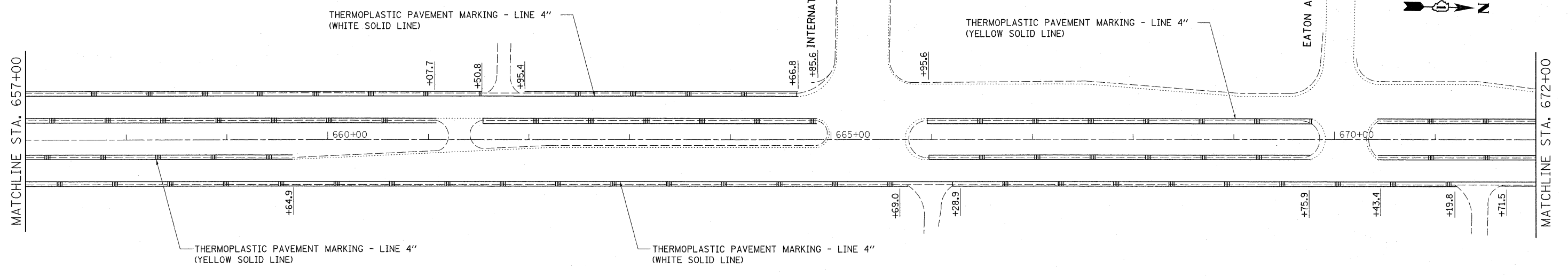
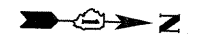
▨▨▨▨▨ PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\pwidot\qureshiya\d0212337\0126609-shr-plan.dgn		DRAWN -	REVISD -		IL. ROUTE 53 (FORKED CREEK - US 52)			846/357	2010-133-1	WILL	54	26
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISD -		SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60F75		
	PLOT DATE = 10/28/2010	DATE -	REVISD -		ILLINOIS FED. AID PROJECT							

IL. ROUTE 53



IL. ROUTE 53



LEGEND

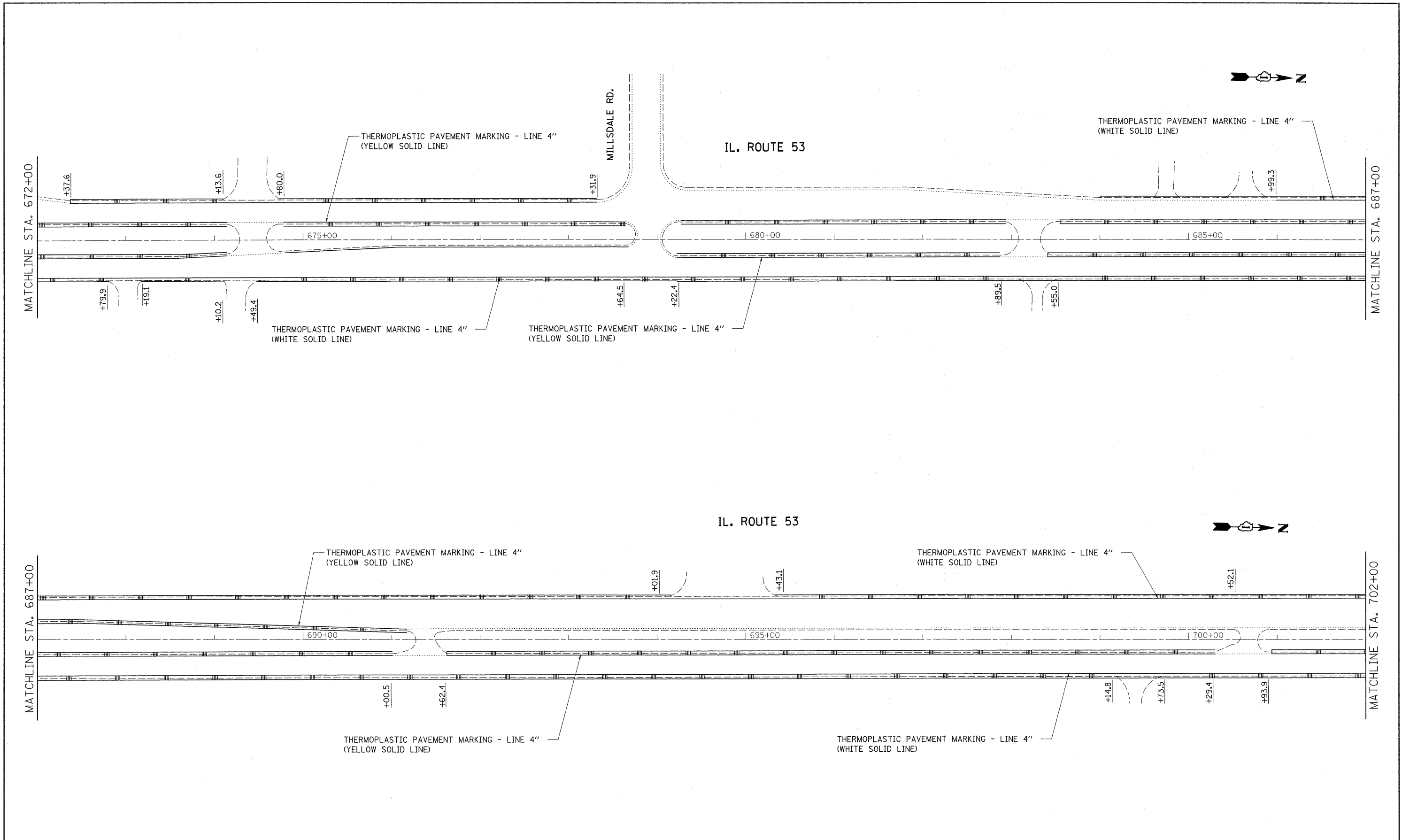
||| ||| PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
c:\pwork\pwork\qureshiya\0212337\DI2	609-shr-plan.dgn	DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/26/2010	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
IL. ROUTE 53 (FORKED CREEK - US 52)			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. 846/357	SECTION 2010-133-1	COUNTY WILL	TOTAL SHEETS 54	SHEET NO. 27
CONTRACT NO. 60F75				
ILLINOIS FED. AID PROJECT				



LEGEND

▨▨▨▨▨ PROPOSED SHOULDER RUMBLE STRIPS

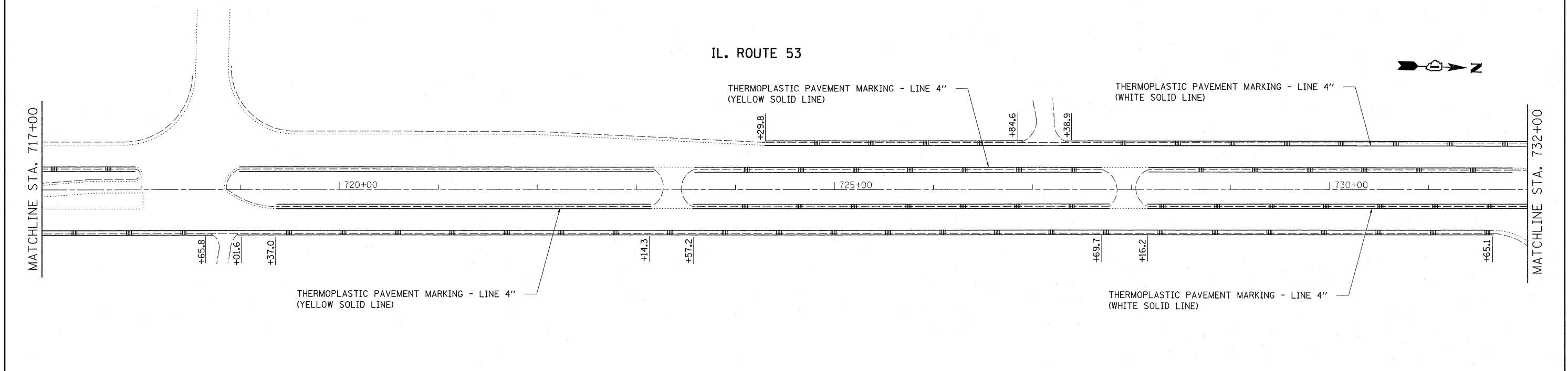
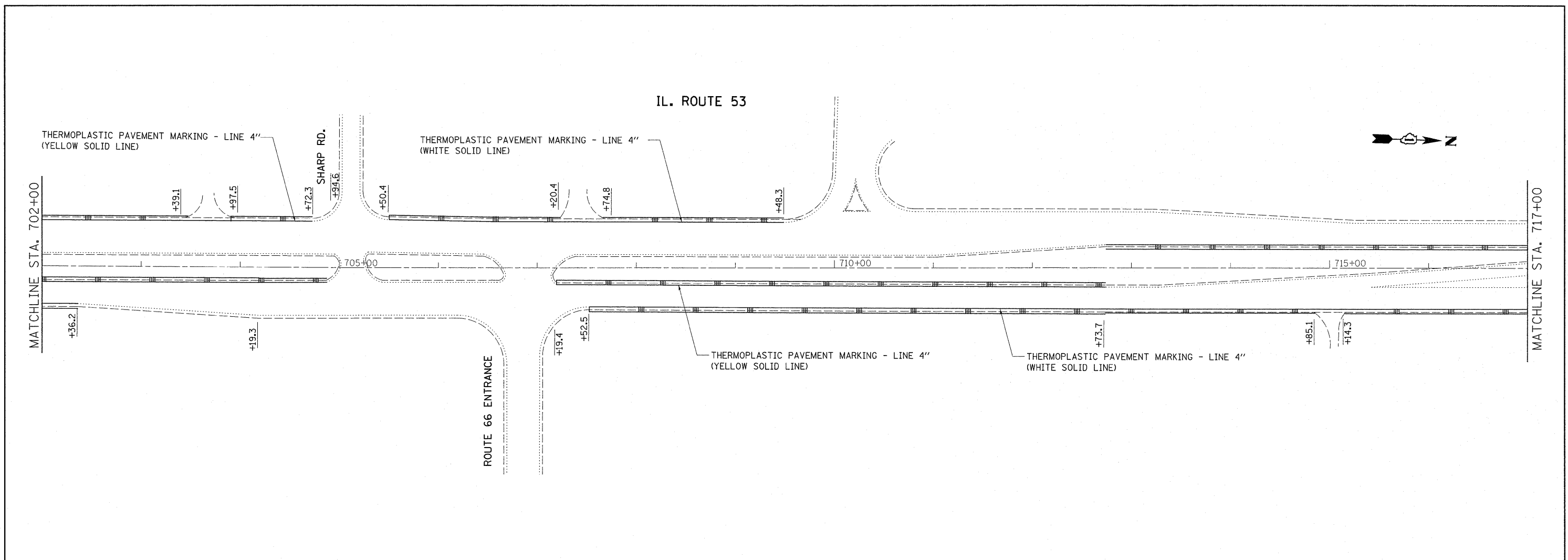
FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
c:\p\work\p\dot\qureshiya\d0212337\DI2	609-shr-plan.dgn	DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/28/2010	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
IL. ROUTE 53 (FORKED CREEK - US 52)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846/357	2010-133-1	WILL	54	28
CONTRACT NO. 60F75				
ILLINOIS FED. AID PROJECT				



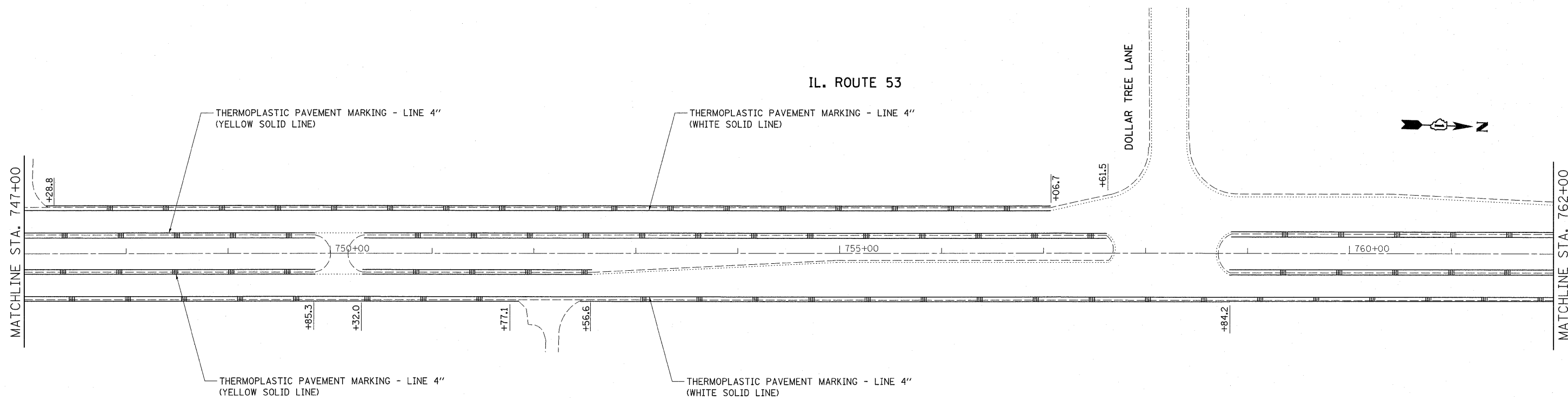
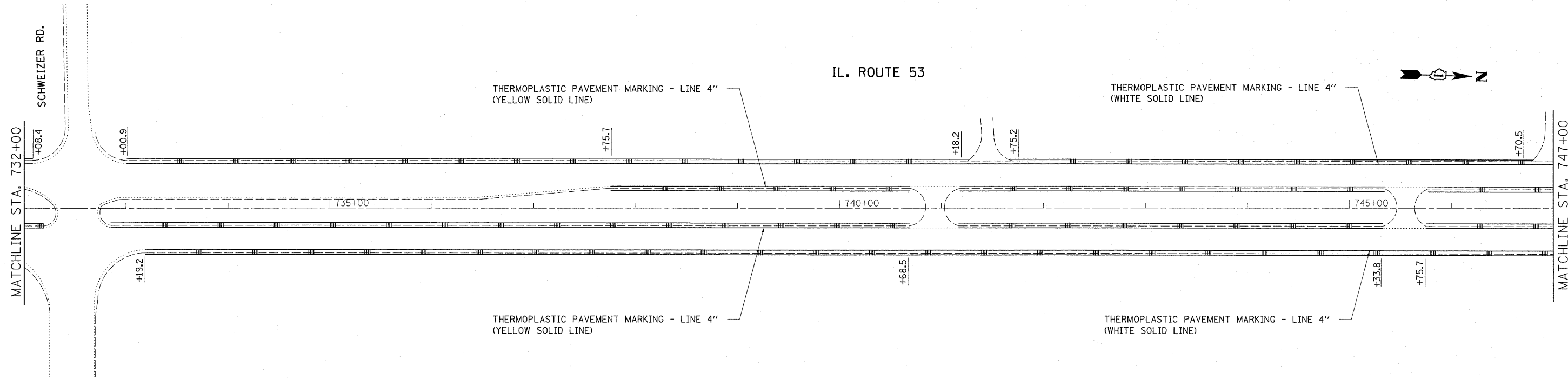
LEGEND
 ||||| PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
c:\pw_work\pwsdot\qureshiya\d0212337\0126609-shr-plan.dgn		DRAWN -	REVISED -
PLOT SCALE = 50,0000 ' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/28/2010		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
IL. ROUTE 53 (FORKED CREEK - US 52)			
SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE. 846/357	SECTION 2010-133-1	COUNTY WILL	TOTAL SHEETS 54	SHEET NO. 29
CONTRACT NO. 60F75				
ILLINOIS FED. AID PROJECT				



LEGEND

||| ||| PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
ca:\pw_work\p\dot\qureshiya\d0212337\012609-sh-t-plan.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/28/2010		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
IL. ROUTE 53 (FORKED CREEK - US 52)**

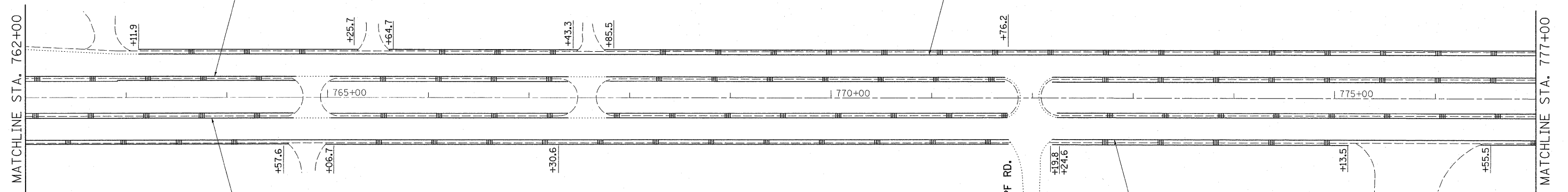
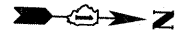
SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846/357	2010-133-1	WILL	54	30
CONTRACT NO. 60F75				
ILLINOIS FED. AID PROJECT				

IL. ROUTE 53

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(WHITE SOLID LINE)

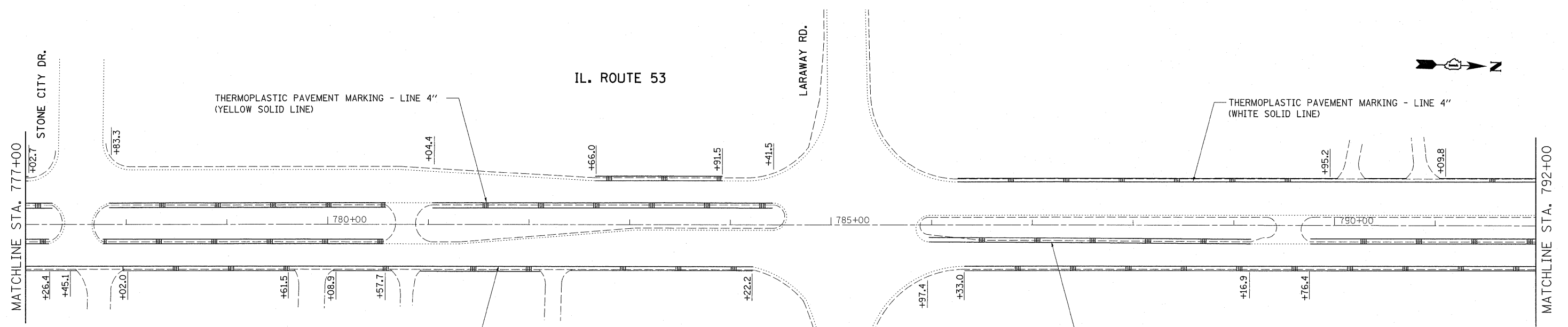
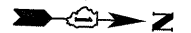
THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(YELLOW SOLID LINE)



IL. ROUTE 53

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(WHITE SOLID LINE)

THERMOPLASTIC PAVEMENT MARKING - LINE 4"
(YELLOW SOLID LINE)

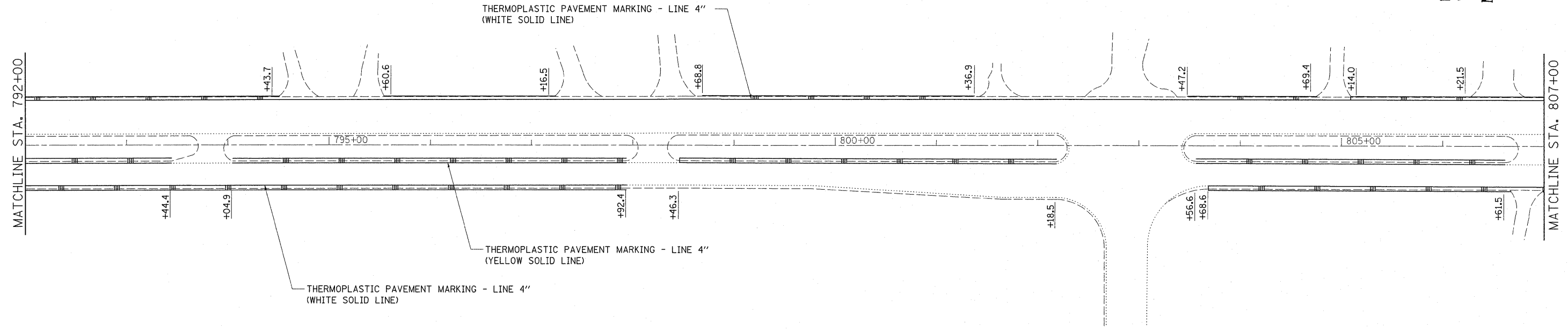
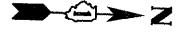


LEGEND

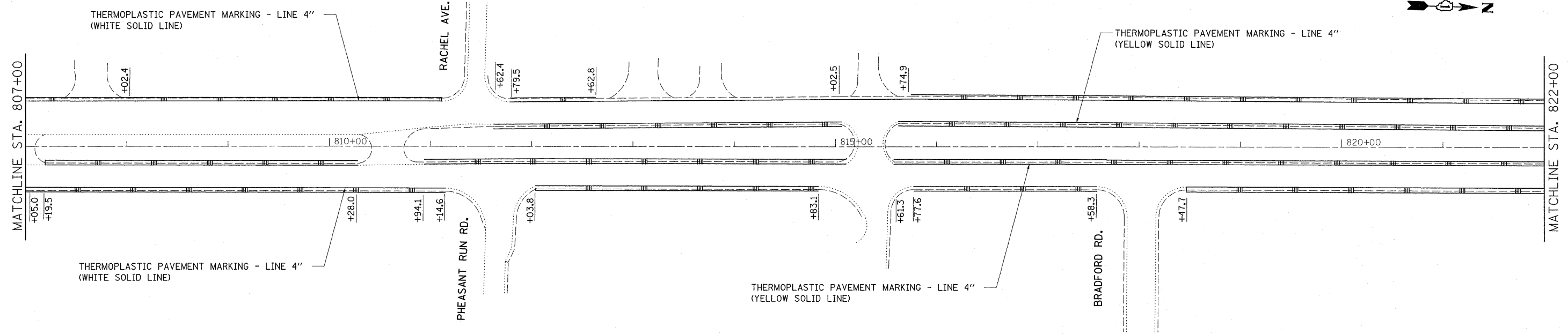
▨▨▨ PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwork\pwork\qureshiya\d0212337\012609-shr-plan.dgn		DRAWN -	REVISED -		IL. ROUTE 53 (FORKED CREEK - US 52)				846/357	2010-133-1	WILL	54	31	
		CHECKED -	REVISED -		SCALE: 1"=50'				SHEET NO. OF SHEETS		STA. TO STA.		CONTRACT NO. 60F75	
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT									

IL. ROUTE 53



IL. ROUTE 53

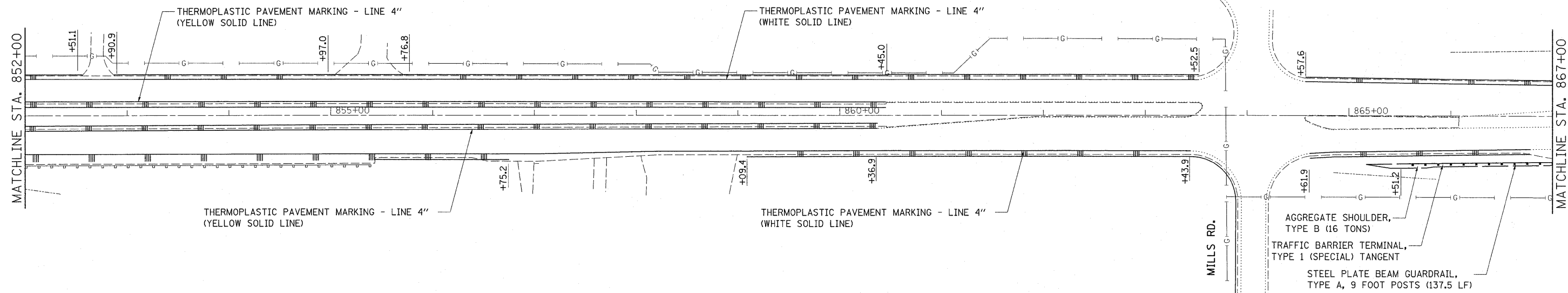


LEGEND

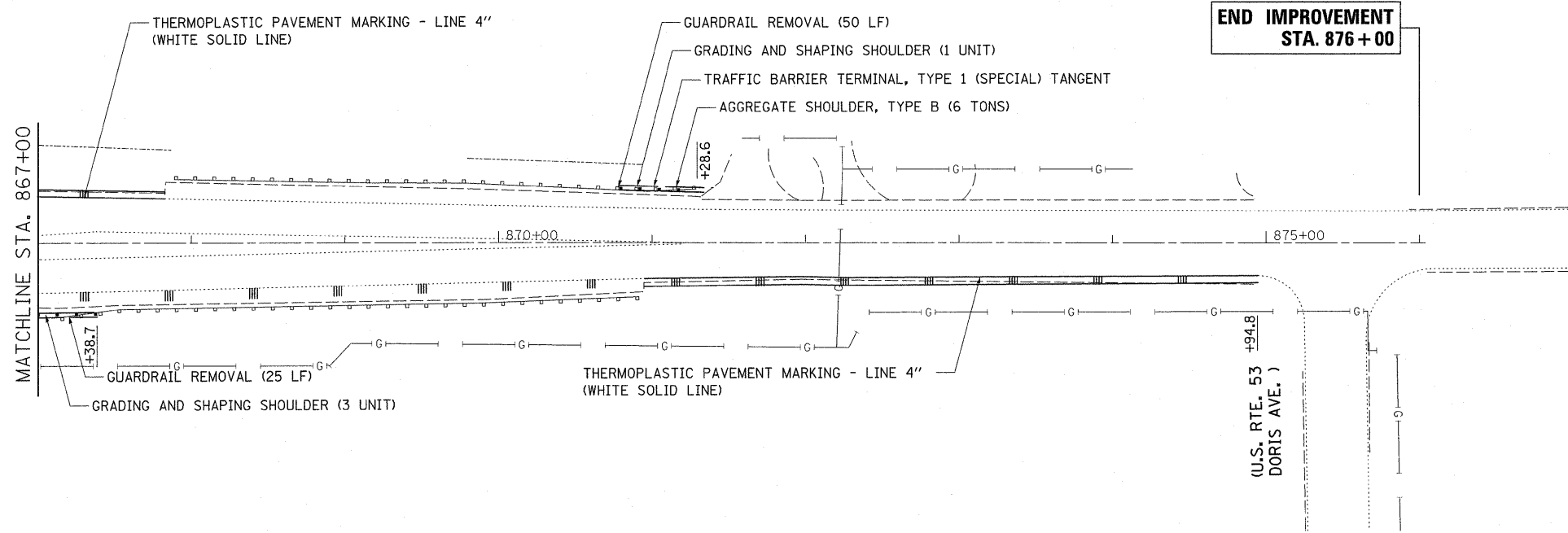
||| ||| PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = cureshtyo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwork\pwidot\cureshtyo\08212337\012	609-shr-plan.dgn	DRAWN -	REVISED -		IL. ROUTE 53 (FORKED CREEK - US 52)			846/357	2010-133-I	WILL	54	32
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60F75	
	PLOT DATE = 10/26/2010	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

IL. ROUTE 53



IL. ROUTE 53



LEGEND

||| PROPOSED SHOULDER RUMBLE STRIPS

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
cs:\pw\work\p\dot\qureshiya\d0212337\012609-ah-t-plan.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/28/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
IL. ROUTE 53 (FORKED CREEK - US 52)

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846/357	2010-133-1	WILL	54	34
CONTRACT NO. 60F75				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

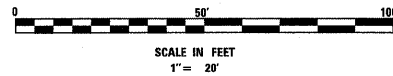
	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN WITH TIMER		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMMON TRENCH		
UNIT DUCT		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROLLER		
ILLUMINATED SIGN, FIBER OPTIC 'NO LEFT TURN'		
ILLUMINATED SIGN, FIBER OPTIC 'NO RIGHT TURN'		
TELEPHONE CONNECTION		
LUMINAIRE		

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

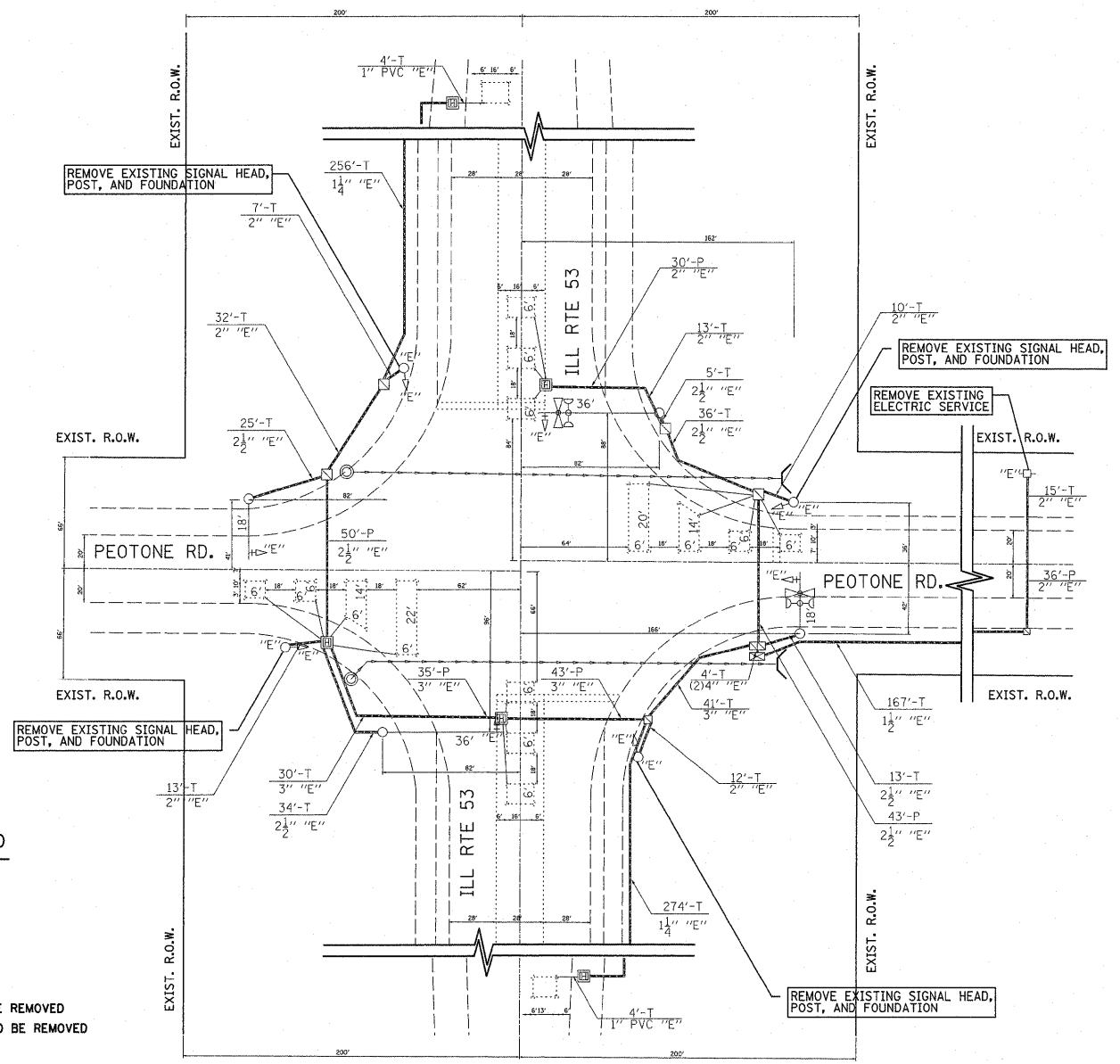
- 2 EACH SIGNAL HEAD, 1-FACE, 3-SECTION BRACKET MOUNTED
- 2 EACH SIGNAL HEAD, 1-FACE, 3-SECTION MAST ARM MOUNTED
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION BRACKET MOUNTED
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION MAST ARM MOUNTED
- 4 EACH TRAFFIC SIGNAL POST
- 6 EACH CONCRETE FOUNDATION
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH POLE MOUNTED ELECTRIC SERVICE
- 2 EACH MAST ARM ASSEMBLY & POLE
- 4 EACH PAINTED SIGNAL POSTS

EXISTING EQUIPMENT TO BE REMOVED LEGEND

	EXISTING CONTROLLER TO BE REMOVED
	EXISTING SERVICE INSTALLATION TO BE REMOVED
	EXISTING SIGNAL HEAD TO BE REMOVED
	EXISTING SIGNAL HEAD WITH BACKPLATE TO BE REMOVED
	EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
	EXISTING SIGNAL POST TO BE REMOVED
	EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED
	EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
	EXISTING HANDHOLE TO BE REMOVED
	EXISTING HEAVY DUTY HANDHOLE TO BE REMOVED
	EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
	EXISTING EMERGENCY VEHICLE SYSTEM DETECTOR TO BE REMOVED
	EXISTING CONFIRMATION BEACON TO BE REMOVED



ALL EXISTING SIGNAL HEADS TO BE REPLACED WITH LED SIGNAL HEADS

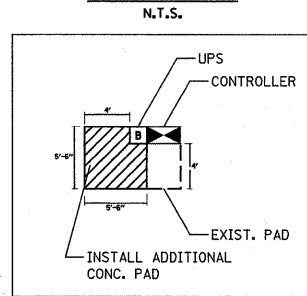


TRAFFIC SIGNAL REMOVAL PLAN
IL 53 AT PEOTONE ROAD

TRAFFIC SIGNAL LEGEND

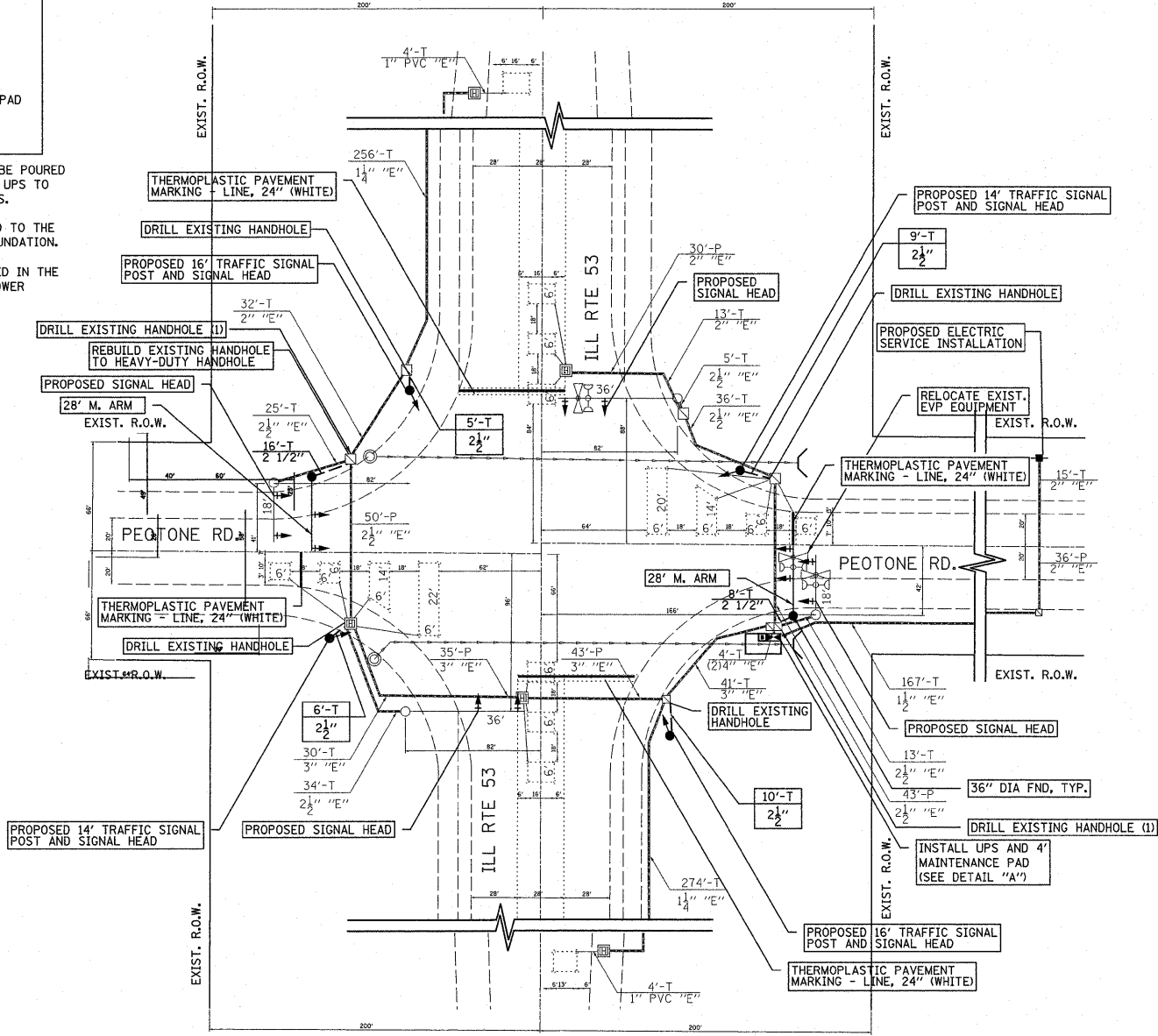
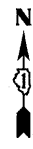
	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN WITH TIMER		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMMON TRENCH		
UNIT DUCT		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROLLER		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		
TELEPHONE CONNECTION		
LUMINAIRE		

DETAIL "A"



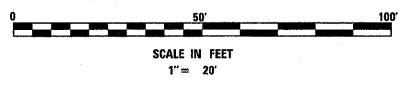
- 1) 5" THICK CONCRETE PAD SHALL BE POURED NEXT TO NEW CONTROLLER AND/OR UPS TO PROVIDE EASY MAINTENANCE ACCESS.
- 2) MAINTENANCE PAD SHALL EXTEND TO THE EDGE OF EXISTING CONTROLLER FOUNDATION.
- 3) COST OF PAD SHALL BE INCLUDED IN THE PRICE OF THE UNINTERRUPTIBLE POWER SUPPLY PAY ITEM.

ALL EXISTING SIGNAL HEADS TO BE REPLACED WITH LED SIGNAL HEADS



NOTE:
THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE OPERATION OF THE TRAFFIC SIGNALS DURING THE ENTIRE PROJECT.

NOTE:
THE FINAL LOCATION OF THE SIGNAL POSTS WILL BE DETERMINED IN THE FIELD AND THE CONTRACTOR SHALL VERIFY THE LOCATION WITH THE RESIDENT ENGINEER.



**TRAFFIC SIGNAL MODIFICATION PLAN
IL 53 AT PEOTONE ROAD**

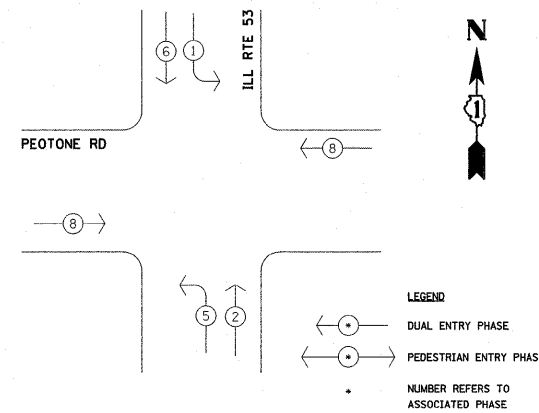
1" = 20'

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAF SIGNAL MODIFICATION PLAN IL 53 AT PEOTONE RD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pw\work\pwwdot\qureshiya\d0212316\0122009-shr-plan.dgn		DRAWN -	REVISED -		SCALE: NTS	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	2010-133-1	WILL	54	36
		CHECKED -	REVISED -						• 846/357			
		DATE = 10/28/2010	REVISED -									CONTRACT NO. 60F75
ILLINOIS FED. AID PROJECT												

CABLE PLAN LEGEND

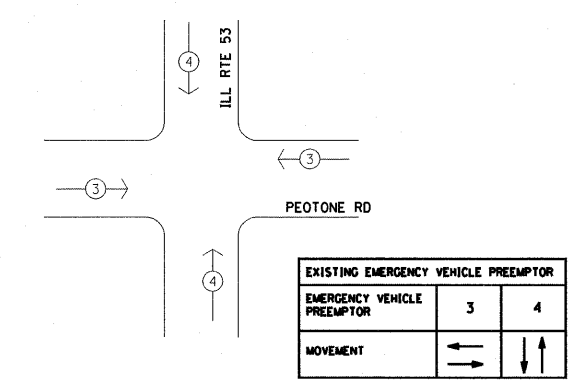
EXISTING	PROPOSED	
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		MICROWAVE VEHICLE SENSOR
		SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
		GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
		12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
		UNINTERRUPTIBLE POWER SUPPLY

CONTROLLER SEQUENCE IV
REFERRING TO STANDARD 2393-1, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.

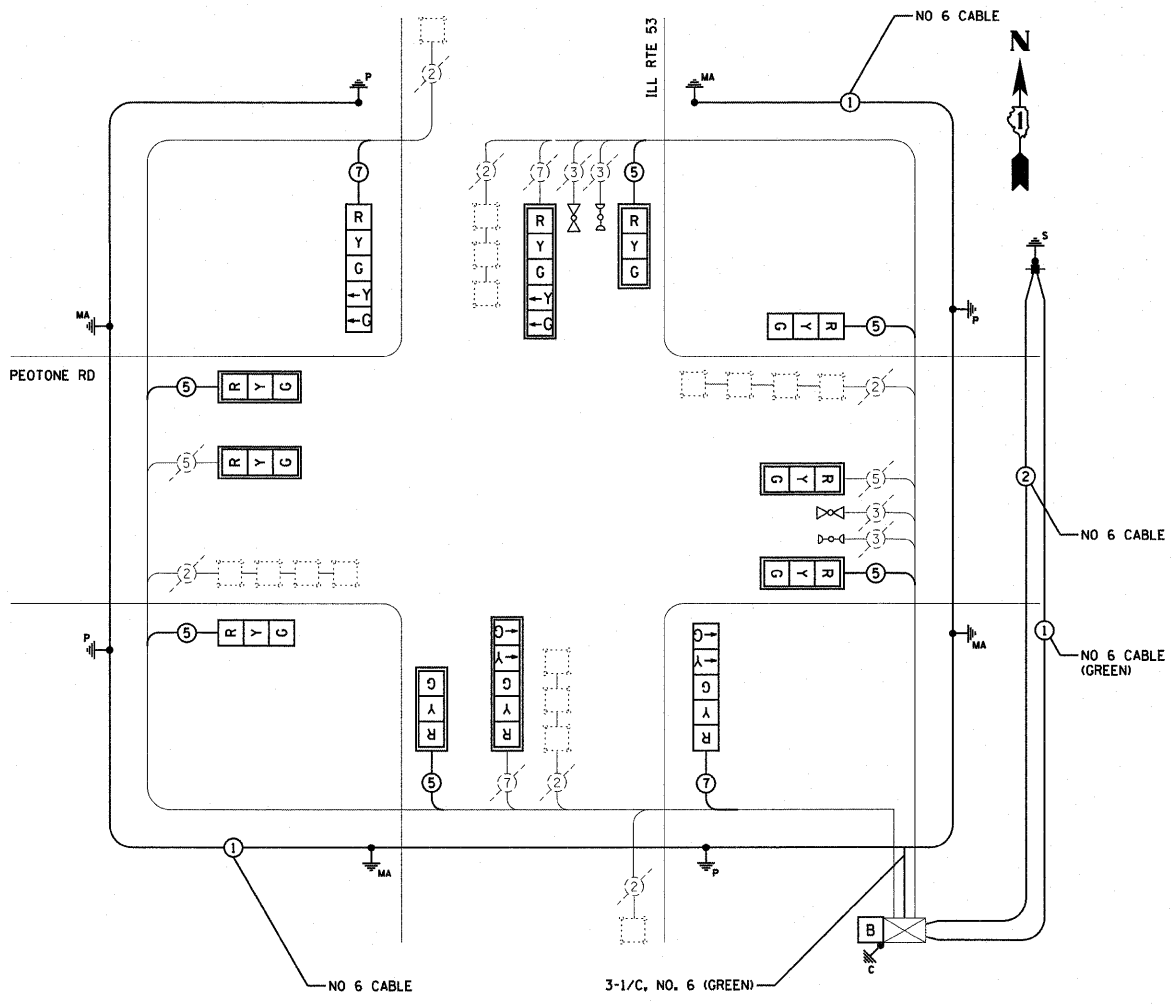


PHASE DESTINATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED CABLE PLAN



NOTE:
EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION		
SIGNAL (RED)	12	135	17	0.50		102.00
(YELLOW)	12	135	25	0.25		75.00
(GREEN)	12	135	15	0.25		45.00
ARROW	8	135	12	0.10		9.60
PED. SIGNAL	0	90	25	1.00		0.00
CONTROLLER	1	100	100	1.00		100.00

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE
E - M. ARM POLE		SIGNAL POST	2 (1.0)	(6m+L-0.6m)=
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND
				POST MOUNTED

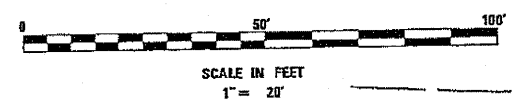
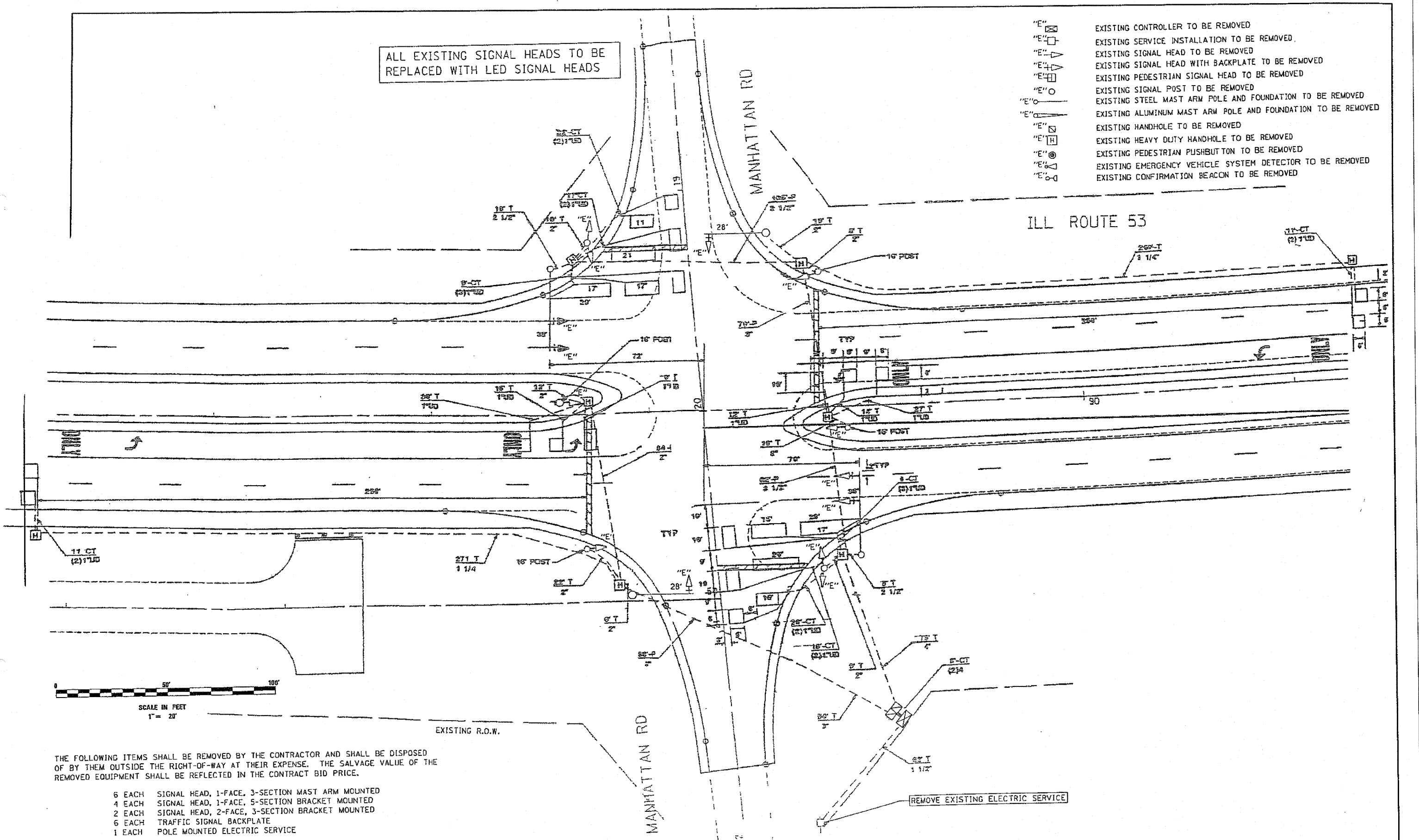
CODE #	DESCRIPTION	UNIT	QUANTITY
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	95
78300400	THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	185
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	54
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	30
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,500
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	400
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	200
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
87800115	CONCRETE FOUNDATION, TYPE A	EACH	4
87900200	DRILL EXISTING HANDHOLE	EACH	6
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6

CODE #	DESCRIPTION	UNIT	QUANTITY
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	820
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
X8140074	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	9
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	900
X8950210	REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	1
87700180	STEEL MAST ARM ASSEMBLY & POLE, 28 FT.	EACH	2
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIA.	FOOT	20
89501400	RELOCATE EXIST EMER VEHICLE PRIORITY SYS, DET UNIT	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 3C	FOOT	80
X8730250	ELECTRIC CABLE IN CONDUIT NO.20 3/C,TWISTED SHIELDED	FOOT	80

CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES IL 53 AT PEOTONE ROAD

ALL EXISTING SIGNAL HEADS TO BE REPLACED WITH LED SIGNAL HEADS

- "E" [Symbol] EXISTING CONTROLLER TO BE REMOVED
- "E" [Symbol] EXISTING SERVICE INSTALLATION TO BE REMOVED
- "E" [Symbol] EXISTING SIGNAL HEAD TO BE REMOVED
- "E" [Symbol] EXISTING SIGNAL HEAD WITH BACKPLATE TO BE REMOVED
- "E" [Symbol] EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- "E" [Symbol] EXISTING SIGNAL POST TO BE REMOVED
- "E" [Symbol] EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED
- "E" [Symbol] EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- "E" [Symbol] EXISTING HANDHOLE TO BE REMOVED
- "E" [Symbol] EXISTING HEAVY DUTY HANDHOLE TO BE REMOVED
- "E" [Symbol] EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- "E" [Symbol] EXISTING EMERGENCY VEHICLE SYSTEM DETECTOR TO BE REMOVED
- "E" [Symbol] EXISTING CONFIRMATION BEACON TO BE REMOVED



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE 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 MAST ARM MOUNTED
- 4 EACH SIGNAL HEAD, 1-FACE, 5-SECTION BRACKET MOUNTED
- 2 EACH SIGNAL HEAD, 2-FACE, 3-SECTION BRACKET MOUNTED
- 6 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH POLE MOUNTED ELECTRIC SERVICE

REMOVE EXISTING ELECTRIC SERVICE

FILE NAME =	USER NAME = qvreshiga	DESIGNED -	REVISED -
c:\pwwork\pwwork\qvreshiga\0212318\012	689-shr-plandgn	DRAWN -	REVISED -
	PLOT SCALE = 1/8" = 1' IN.	CHECKED -	REVISED -
	PLOT DATE = 10/27/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN
IL 53 AT MANHATTAN RD

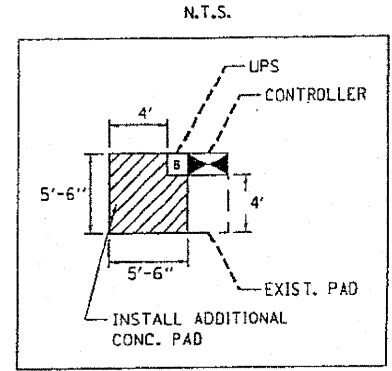
SCALE: NTS SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2010-133-I	WILL	54	38
• 846/357			CONTRACT NO. 60F75	
ILLINOIS FED. AID PROJECT				

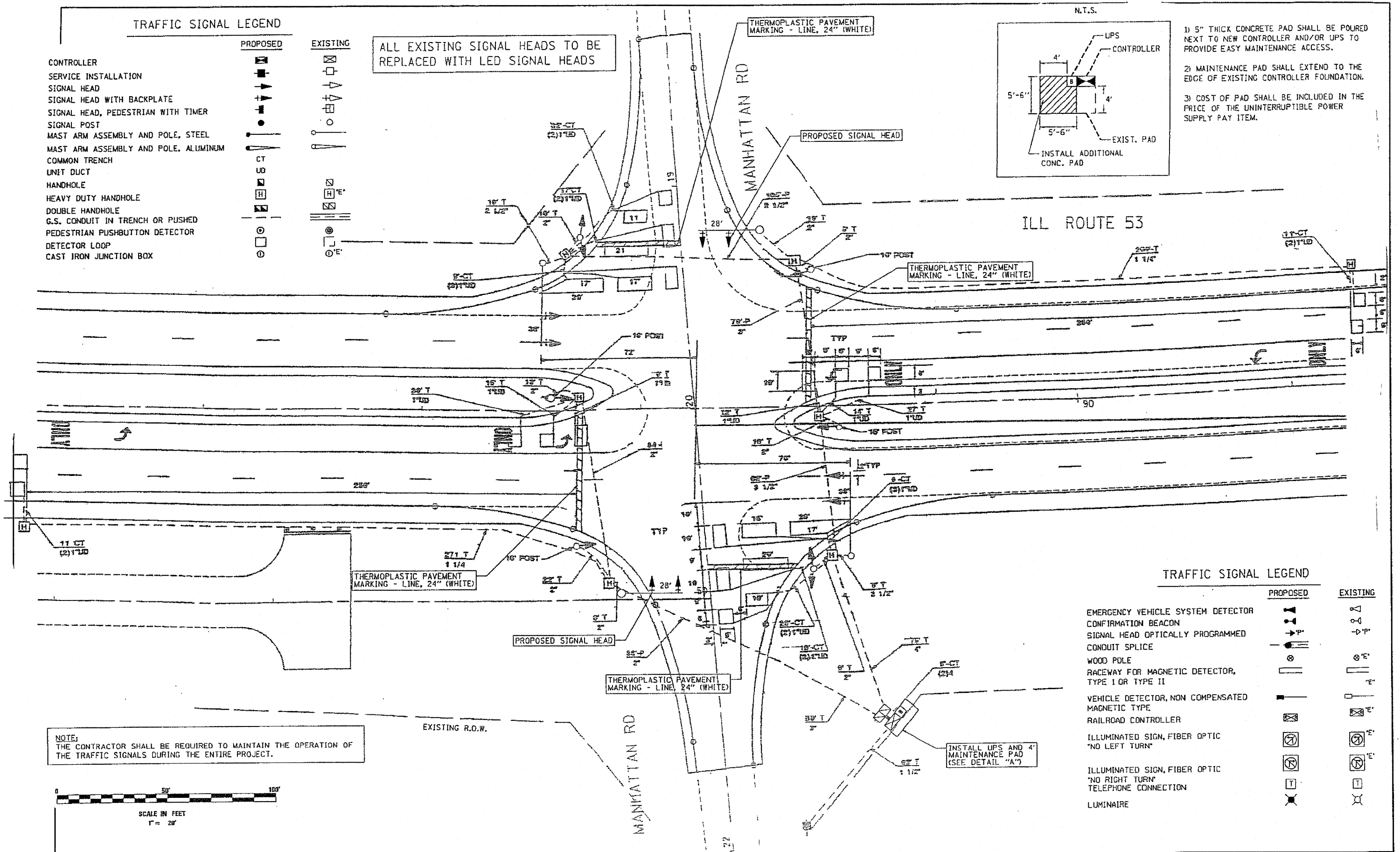
TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN WITH TIMER		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMMON TRENCH		
UNIT DUCT		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		

ALL EXISTING SIGNAL HEADS TO BE REPLACED WITH LED SIGNAL HEADS



- 1) 5" THICK CONCRETE PAD SHALL BE POURED NEXT TO NEW CONTROLLER AND/OR UPS TO PROVIDE EASY MAINTENANCE ACCESS.
- 2) MAINTENANCE PAD SHALL EXTEND TO THE EDGE OF EXISTING CONTROLLER FOUNDATION.
- 3) COST OF PAD SHALL BE INCLUDED IN THE PRICE OF THE UNINTERRUPTIBLE POWER SUPPLY PAY ITEM.



NOTE:
THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE OPERATION OF THE TRAFFIC SIGNALS DURING THE ENTIRE PROJECT.



SCALE IN FEET
1" = 20'

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROLLER		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		
TELEPHONE CONNECTION		
LUMINAIRE		

FILE NAME =	USER NAME = qurashya	DESIGNED -	REVISED -
c:\pwr\work\pwr\dot\qurashya\1821231\6\0122689-shr-plan.dgn		DRAWN -	REVISED -
	PLOT SCALE = 1/8" = 1' IN.	CHECKED -	REVISED -
	PLOT DATE = 10/27/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAF SIGNAL MODIFICATION PLAN
IL 53 AT MANHATTAN RD

SCALE: N.T.S. SHEET NO. 2 OF 3 SHEETS STA. TO STA.

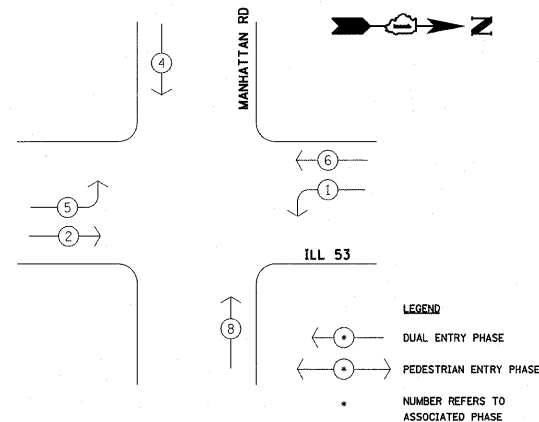
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 846/357	2010-133-I	WILL	54	39
CONTRACT NO. 60F75			ILLINOIS FED. AID PROJECT	

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		MICROWAVE VEHICLE SENSOR
		SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
		GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
		12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
		UNINTERRUPTIBLE POWER SUPPLY

CONTROLLER SEQUENCE IV

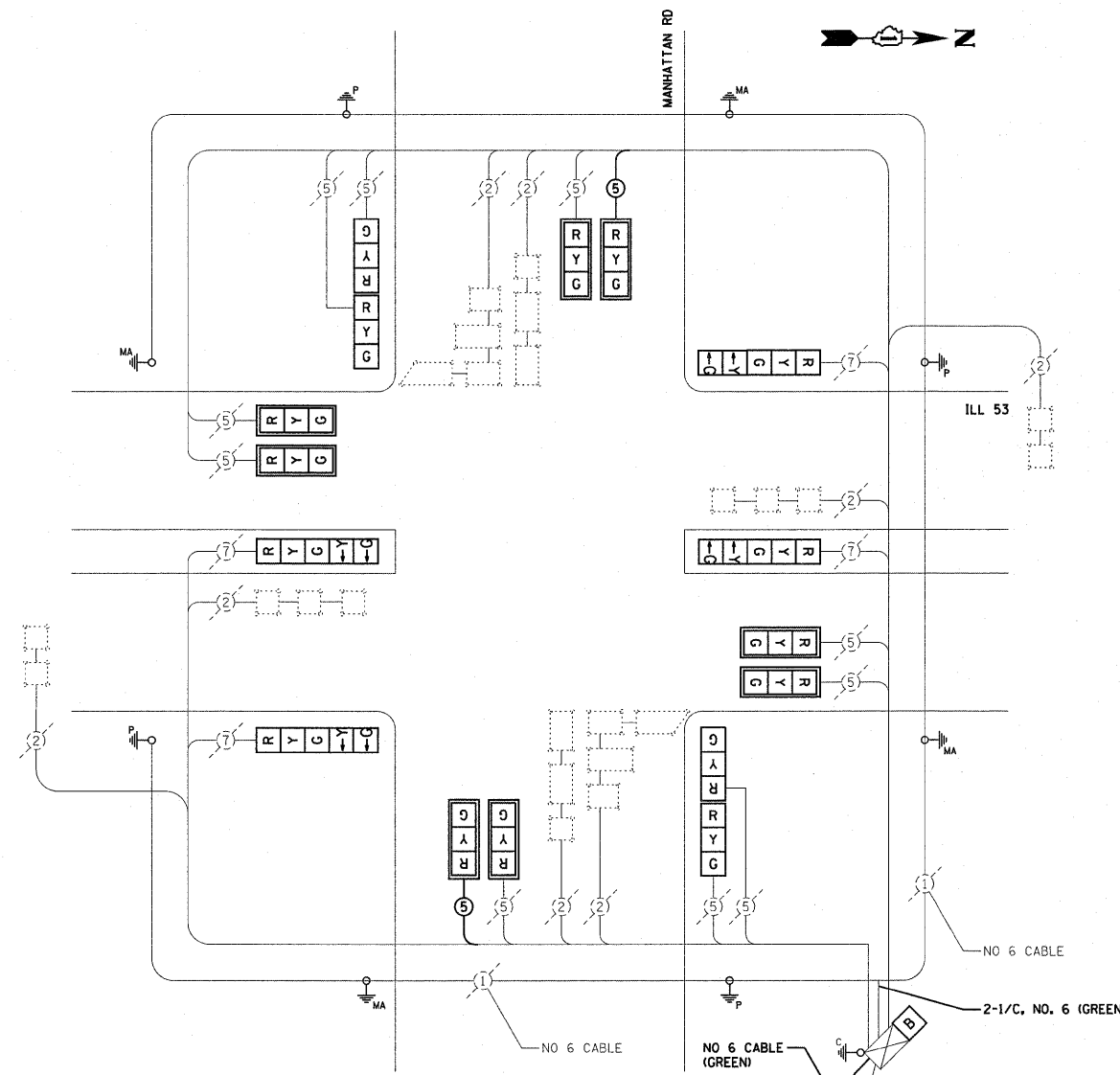
REFERRING TO STANDARD 2393-1, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



PHASE DESTINATION DIAGRAM

LEGEND
 DUAL ENTRY PHASE
 PEDESTRIAN ENTRY PHASE
 NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED CABLE PLAN



NOTE:
 EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

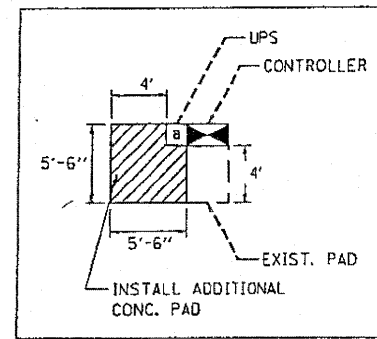
I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	% OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.00
(YELLOW)	16	135	25	0.25	100.00
(GREEN)	16	135	15	0.25	60.00
ARROW	8	135	12	0.10	9.60
PED. SIGNAL	0	90	25	1.00	0.00
CONTROLLER	1	100	100	1.00	100.00

ENERGY COSTS TO: TOTAL = 405.60
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAMBERG, ILLINOIS 60196-1096
 ENERGY SUPPLY CONTACT: _____
 PHONE: _____
 COMPANY: COM. ED.

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE
E - M. ARM POLE		SIGNAL POST	2 (1.0)	20'H L-2=
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	6m+L-0.6m=
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	
		ELECTRIC SERVICE	1 (0.5)	BRACKET MOUNTED
		GROUND CABLE	1 (0.5)	PED. PUSHBUTTON
			1 (0.5)	ELECTRIC SERVICE
			1 (0.5)	SERVICE TO GROUND
			6 (1.8)	POST MOUNTED

CODE #	DESCRIPTION	UNIT	QUANTITY
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	165
78300400	THERMOPLASTIC PAVEMENT MARKING REMOVAL	SO FT	325
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 SC	FOOT	550
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	100
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	100

DETAIL A
N.T.S.



- 1) 5" THICK CONCRETE PAD SHALL BE POURED NEXT TO NEW CONTROLLER AND/OR UPS TO PROVIDE EASY MAINTENANCE ACCESS.
- 2) MAINTENANCE PAD SHALL EXTEND TO THE EDGE OF EXISTING CONTROLLER FOUNDATION.
- 3) COST OF PAD SHALL BE INCLUDED IN THE PRICE OF THE UNINTERRUPTIBLE POWER SUPPLY PAY ITEM.

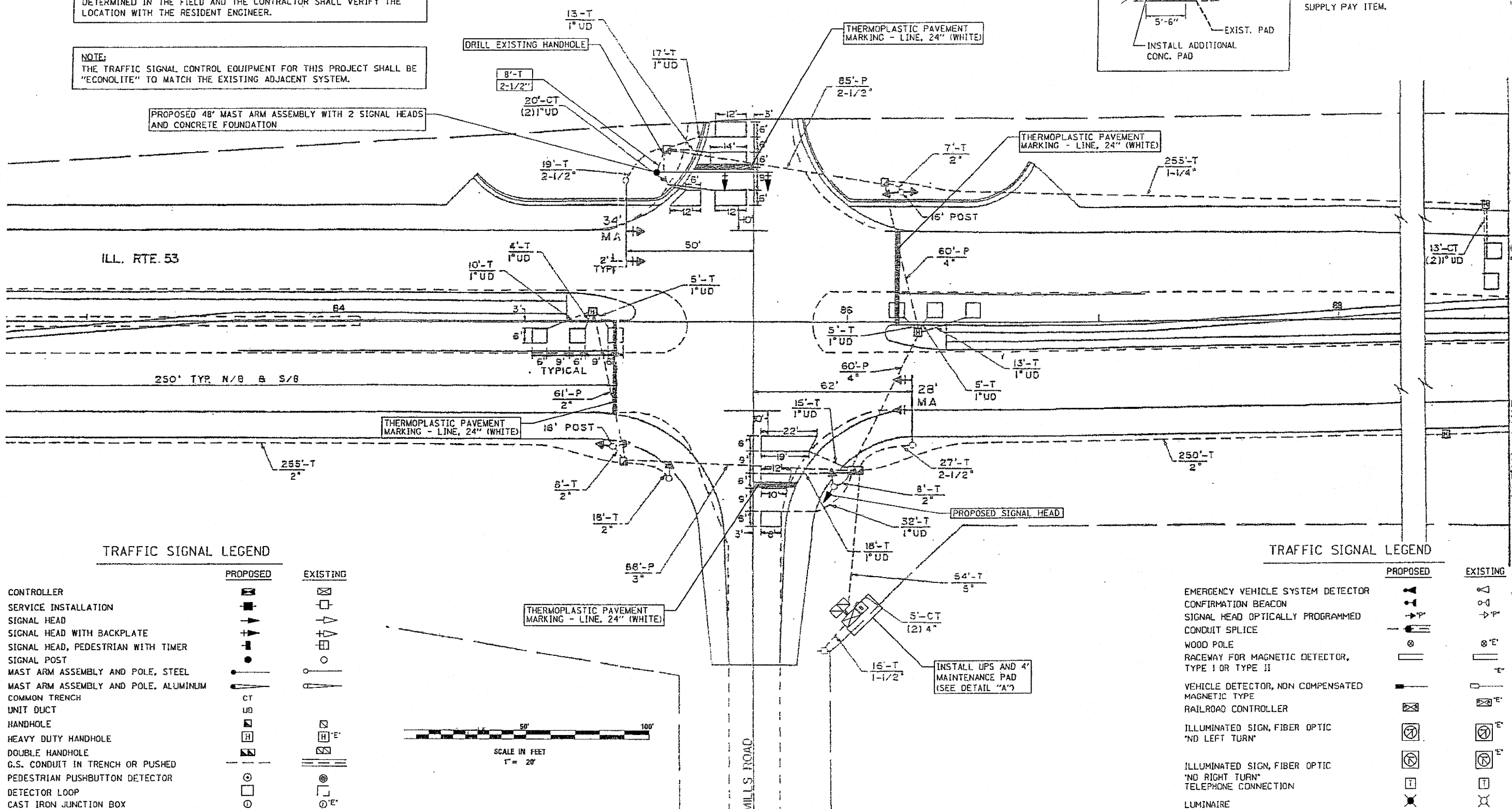
NOTE:
THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE OPERATION OF THE TRAFFIC SIGNALS DURING THE ENTIRE PROJECT.

NOTE:
THE FINAL LOCATION OF THE WESTBOUND MAST ARM WILL BE DETERMINED IN THE FIELD AND THE CONTRACTOR SHALL VERIFY THE LOCATION WITH THE RESIDENT ENGINEER.

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

ALL EXISTING SIGNAL HEADS TO BE REPLACED WITH LED SIGNAL HEADS

PROPOSED 48' MAST ARM ASSEMBLY WITH 2 SIGNAL HEADS AND CONCRETE FOUNDATION



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN WITH TIMER		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMMON TRENCH	CT	
UNIT DUCT	UD	
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROLLER		
ILLUMINATED SIGN, FIBER OPTIC 'NO LEFT TURN'		
ILLUMINATED SIGN, FIBER OPTIC 'NO RIGHT TURN'		
TELEPHONE CONNECTION		
LUMINAIRE		

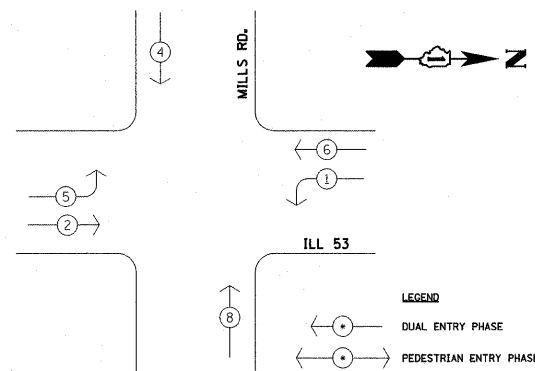
FILE NAME =	USER NAME = qurashiga	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAF SIGNAL MODIFICATION PLAN IL 53 AT MILLS RD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\paw\work\paw\dots\qurashiga\d0212315\0122609-sh-t-pl-an.dgn	DRAWN -	REVISED -	2010-133-1			WILL	54	42		
PLOT SCALE = 1/8"=1'-0"	CHECKED -	REVISED -	846/357			CONTRACT NO. 60F75				
PLOT DATE = 10/27/2010	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		MICROWAVE VEHICLE SENSOR
		SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
		GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
		12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
		UNINTERRUPTIBLE POWER SUPPLY

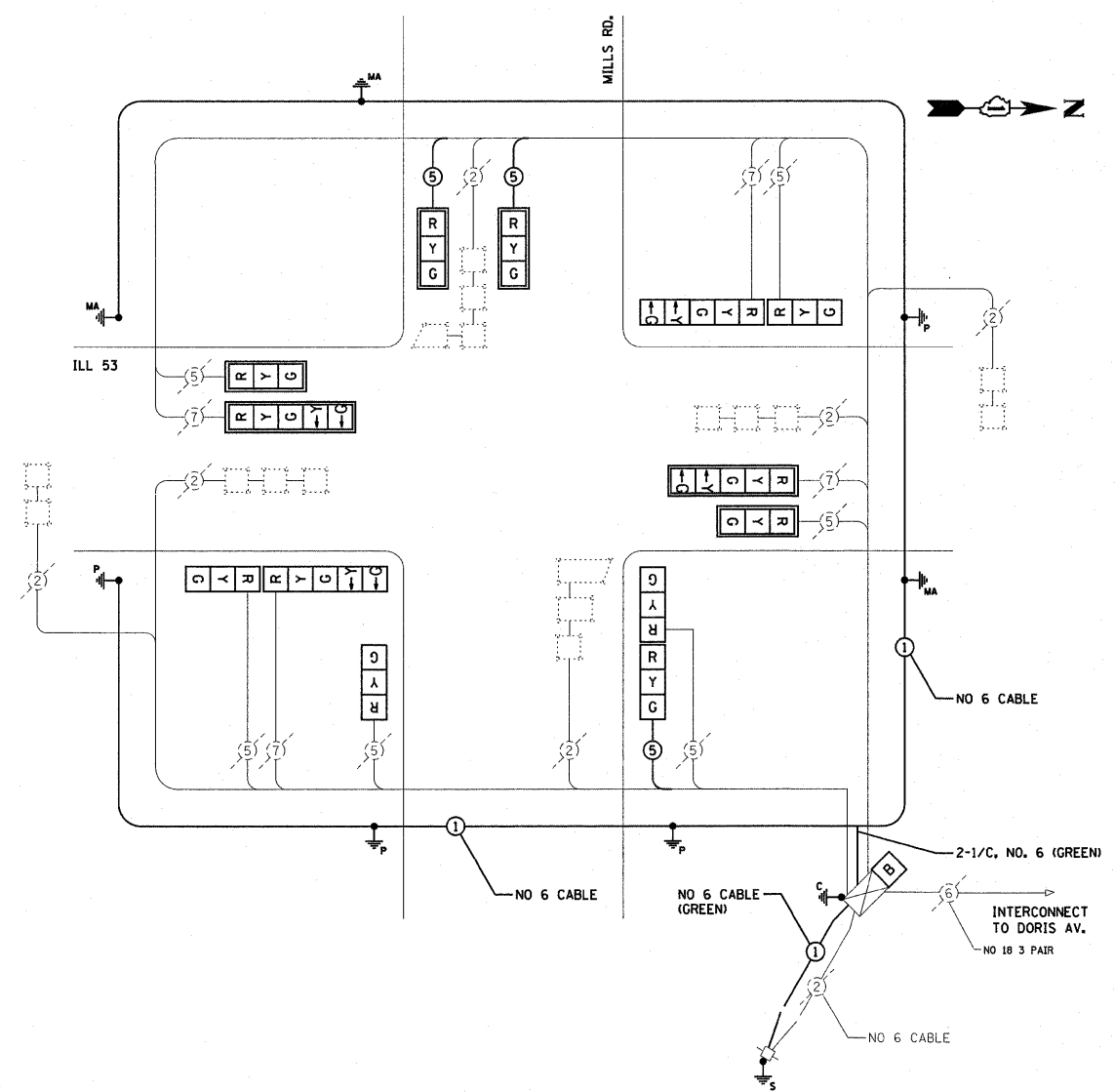
CONTROLLER SEQUENCE IV

REFERRING TO STANDARD 2393-1, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



PHASE DESTINATION DIAGRAM

PROPOSED CABLE PLAN



NOTE:
EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	13	135	17	0.50	110.50
(YELLOW)	13	135	25	0.25	81.25
(GREEN)	13	135	15	0.25	48.75
ARROW	8	135	12	0.10	9.60
PED. SIGNAL	0	90	25	1.00	0.00
CONTROLLER	1	100	100	1.00	100.00

ENERGY COSTS TO: TOTAL = 350.10
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY CONTACT: _____
PHONE: _____
COMPANY: COM. ED.

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE
E - M. ARM POLE		SIGNAL POST	2 (1.0)	20' HL - 2=
		CONTROLLER CAB.	1 (0.5)	6m HL - 0.6m =
		FIBER OPTIC	13 (4.0)	BRACKET MOUNTED
		ELECTRIC SERVICE	1 (0.5)	PED. PUSHBUTTON
		GROUND CABLE	1 (0.5)	ELECTRIC SERVICE
				SERVICE TO GROUND
				POST MOUNTED

CODE #	DESCRIPTION	UNIT	QUANTITY
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	100
78300400	THERMOPLASTIC PAVEMENT MARKING REMOVAL	SO FT	200
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	10
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	10
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	900
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
87900200	DRILL EXISTING HANDHOLE	EACH	1
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1

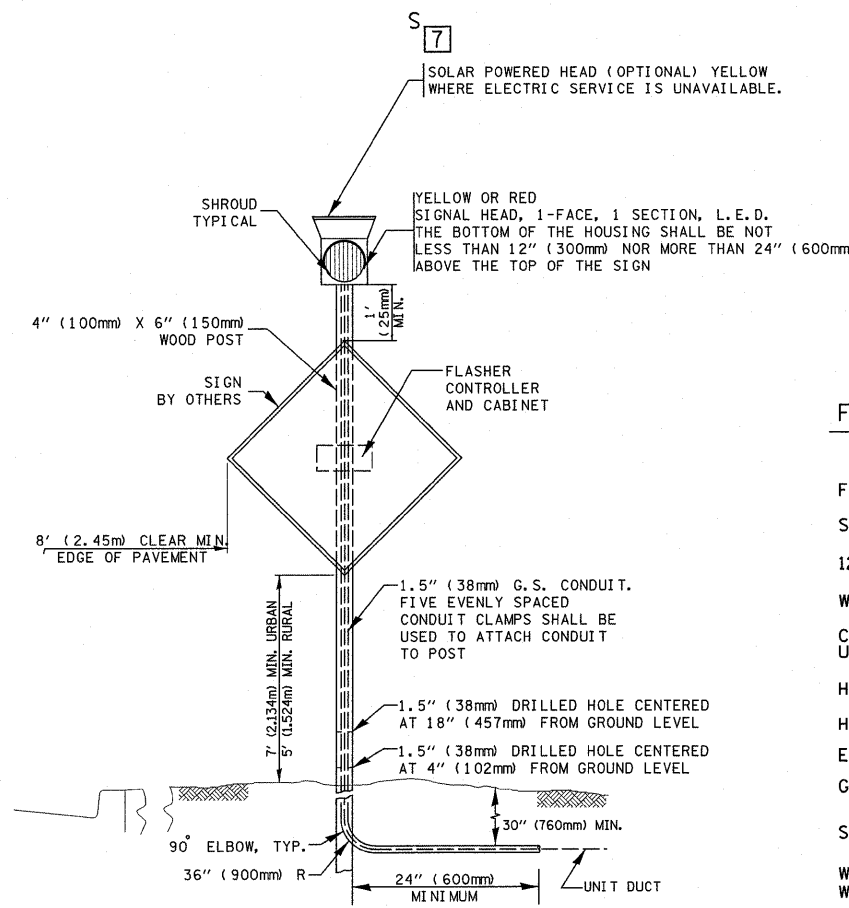
CODE #	DESCRIPTION	UNIT	QUANTITY
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	6
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	600
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
X8140074	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	7
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	750

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES, IL 53 AT MILLS RD.

SCALE: NTS SHEET NO. 3 OF 3 SHEETS STA. TO STA.

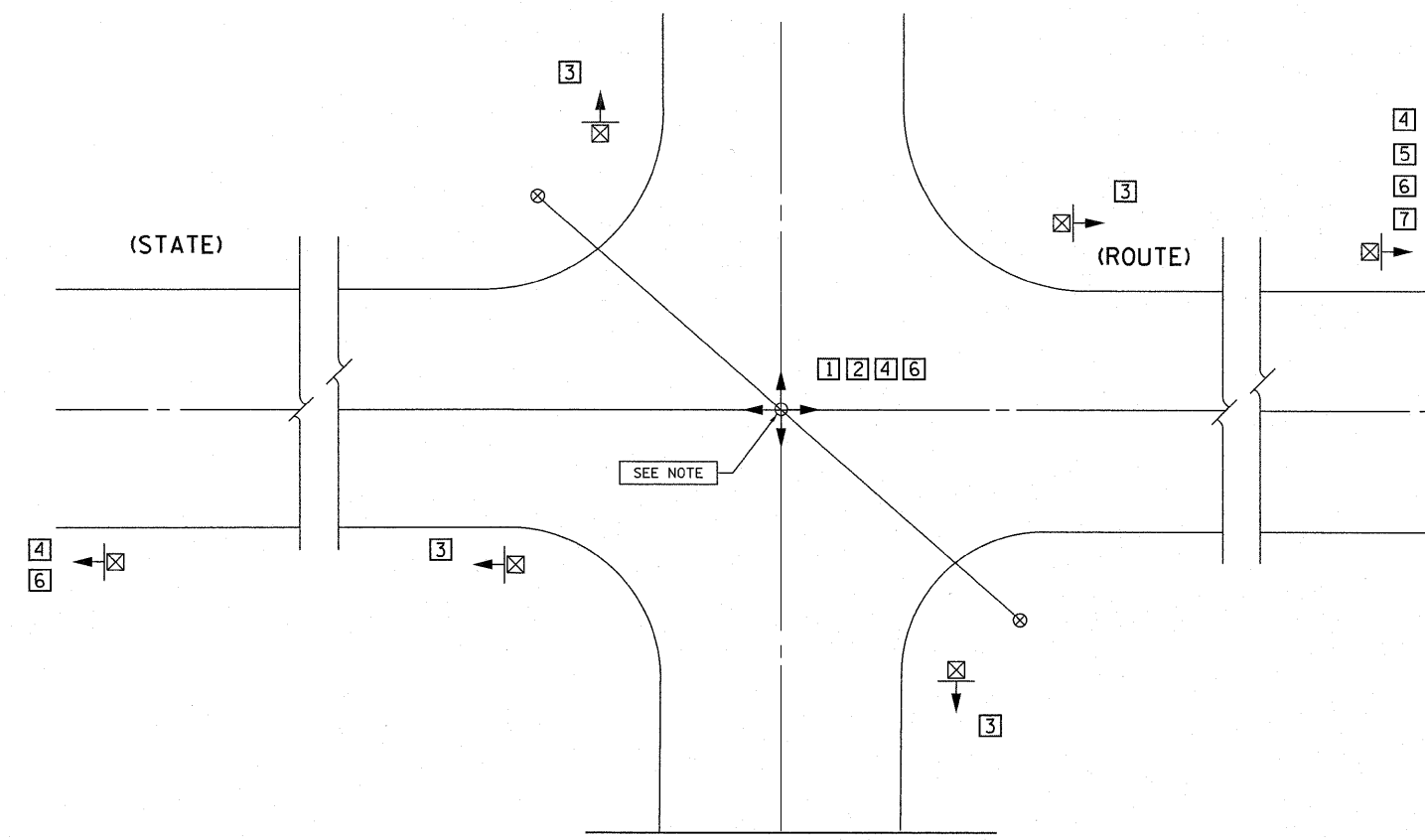
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846/357	2010-133-1	WILL	54	43
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F75	



YELLOW - POST MOUNTED FLASHER DETAIL (TYPICAL)

FLASHER SIGNAL LEGEND

	PROPOSED	EXISTING
FLASHER CONTROL CABINET		
SERVICE INSTALLATION		
12" SIGNAL HEAD (LED)		
WOOD POST, 4" x 6"		
CONDUIT IN GROUND OR UNIT DUCT IN TRENCH		
HANDHOLE		
HEAVY-DUTY HANDHOLE		
ELECTRICAL POLE		
GROUND ROD		
SIGNAL FACE WITH BACKPLATE		
W2-1 OR W2-2 WARNING SIGN W/ STREET PANEL		
JUNCTION BOX - STAINLESS STEEL		

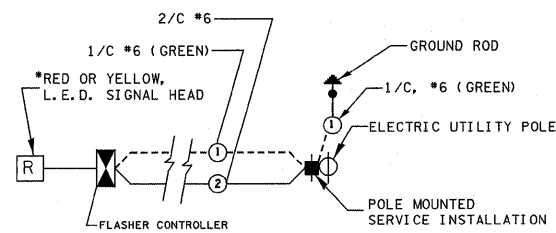


**VARIOUS PLANS - TRAFFIC SIGNAL FLASHERS
N.T.S.**

- 1 U.S. ROUTE 45/52 @ WILMINGTON/ PEOTONE RD. (VILLAGE OF PEOTONE)
- 2 GOVERNORS HWY. @ STUENKEL RD. (VILLAGE OF UNIVERSITY PARK)
- 3 U.S. ROUTE 52 @ LARAWAY RD. (CITY OF JOLIET)
- 4 U.S. ROUTE 6 @ PARKER RD. (VILLAGE OF MOKENA)
- 5 U.S. ROUTE 6 @ BRANDON RD. (CITY OF JOLIET)
- 6 IL. ROUTE 129 @ STRIP MINE RD. (CITY OF WILMINGTON)
- 7 IL. ROUTE 126 @ ESSINGTON RD. (CITY OF PLAINFIELD)

NOTES:

REMOVAL OF INCANDESCENT OPTICS ARE INCLUDED IN L.E.D. RETROFIT PAY ITEM



TYPICAL CABLE PLAN

- YELLOW FLASHER - MOUNTED IN ADVANCE OF INTERSECTION
- RED FLASHER - MOUNTED AT INTERSECTION

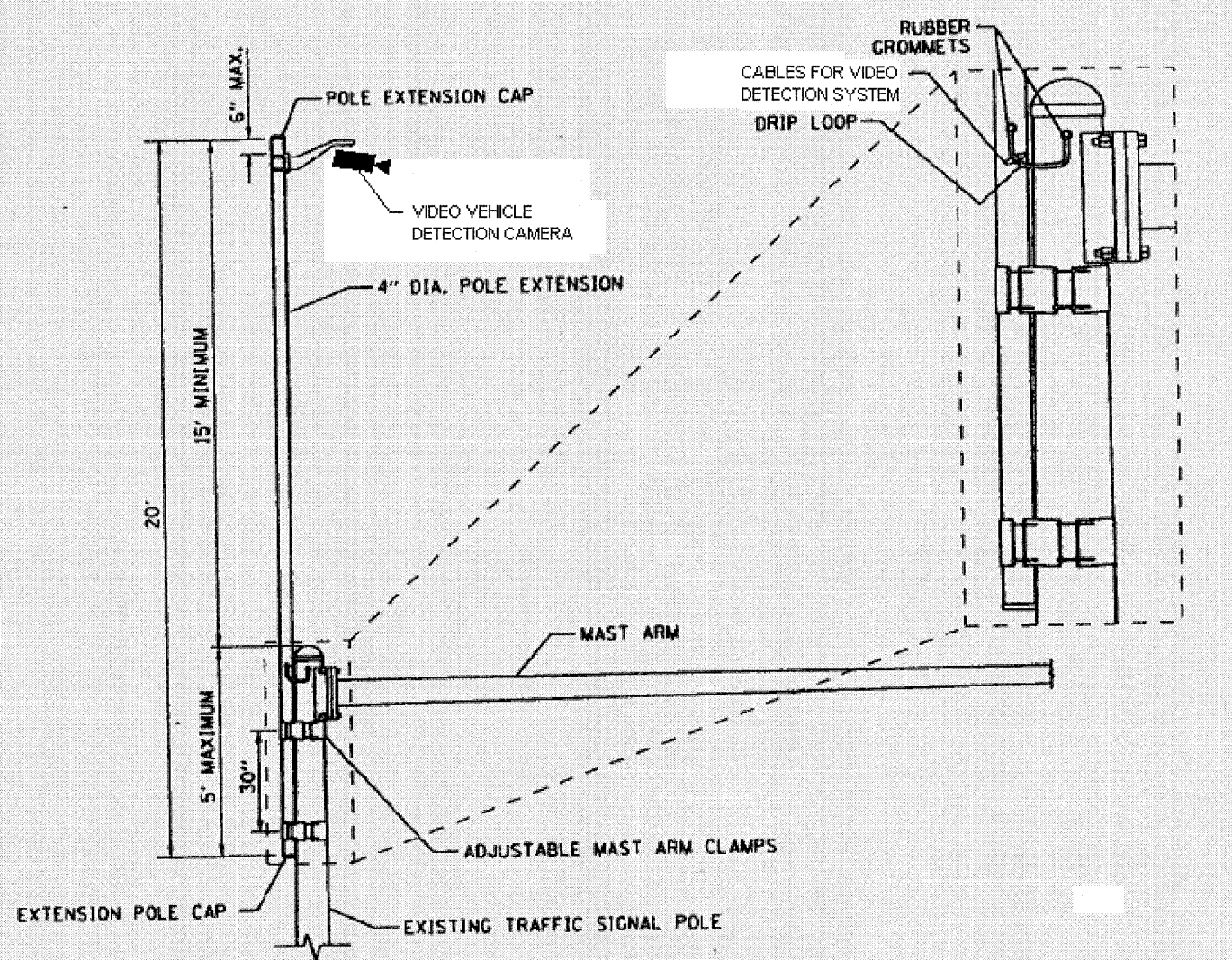
SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGNAL HEAD, L.E.D. 1-SECTION, POST MOUNTED, RETROFIT	EACH	1

L.E.D. FLASHERS - SCHEDULE OF QUANTITIES

	1	2	3	4	5	6	7
ITEM DESCRIPTION	U.S. RTE. 45/52 @ WILMINGTON PEOTONE RD.	GOVERNOR'S HWY @ STUENKEL ROAD	U.S. RTE. 52 @ LARAWAY ROAD	U.S. RTE. 6 @ PARKER ROAD	U.S. RTE. 6 @ BRANDON ROAD	IL. RTE. 129 @ STRIP MINE RD.	IL. RTE. 126 @ ESSINGTON RD.
TRAFFIC SIGNAL FLASHER 1-SECTION, L.E.D.- (RED)	4	4	4	4		4	
TRAFFIC SIGNAL FLASHER 1-SECTION, L.E.D.- (YELLOW)				2	* 1	2	S ₁

- * ADVANCED WARNING FLASHER WESTBOUND U.S. ROUTE 6
- △ ADVANCED WARNING FLASHER(S) NORTH & SOUTHBOUND IL. ROUTE 129 @ STRIP MINE RD.
- ADVANCED WARNING FLASHER(S) EAST & WESTBOUND U.S. ROUTE 6 @ PARKER RD.
- S ADVANCED WARNING FLASHER WESTBOUND (SOLAR POWERED) ON IL. ROUTE 126
- NOT APPLICABLE THIS LOCATION



**CAMERA MOUNTING ASSEMBLY DETAIL ON
EXISTING TRAFFIC SIGNAL POLE**

(NOT TO SCALE)

NOTE:

- 1) THIS WORK IS INCLUDED IN THE COST FOR VIDEO DETECTION SYSTEM.
- 2) THE CONTRACTOR SHALL ADJUST THE CAMERA TO OBTAIN A 6' X 18' DETECTION AREA AT THE LOCATION SHOWN ON THE PLANS.

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -
ci\pw_work\pwrtdet\qureshiya\d0212316\0125609-shr-pln.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

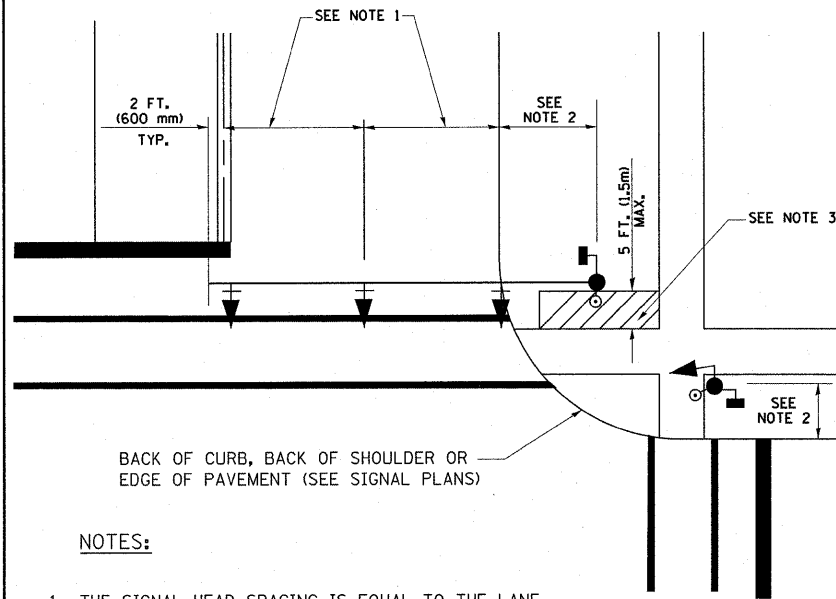
**TRAFFIC SIGNAL DETAIL
VIDEO DETECTION SYSTEM**

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2010-133-1	WILL	54	45
• 846/357			CONTRACT NO. 60F75	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

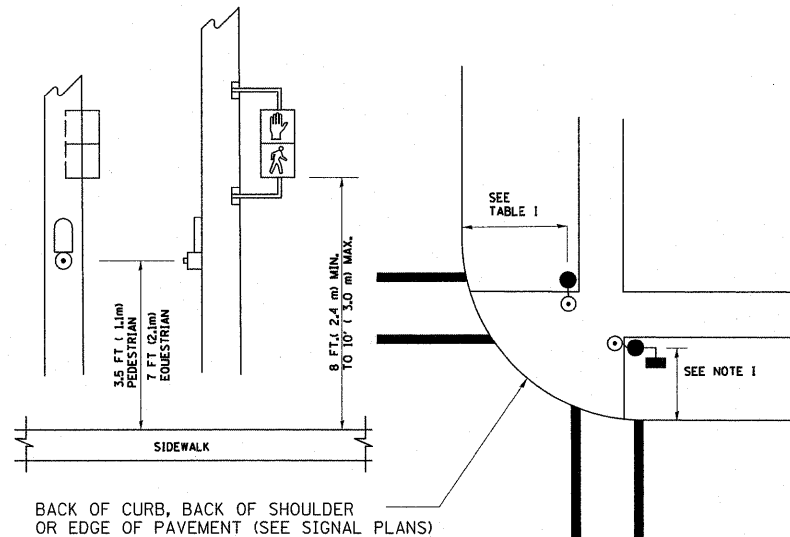
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

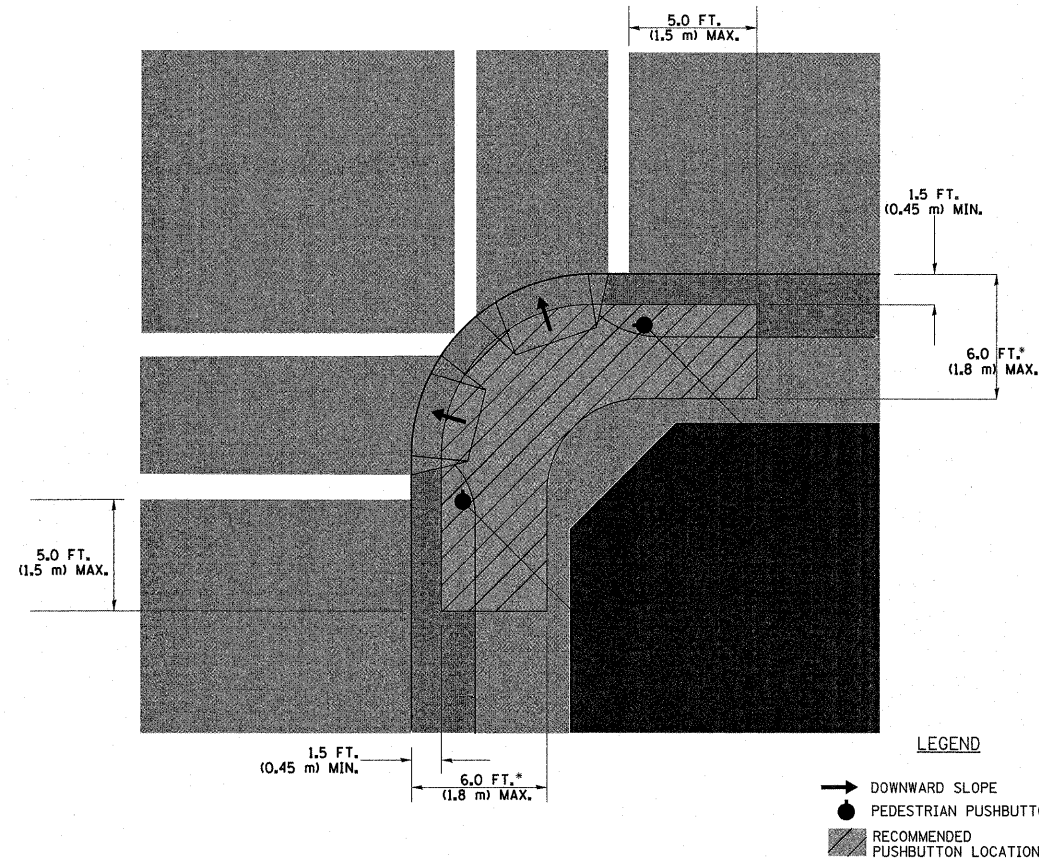
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

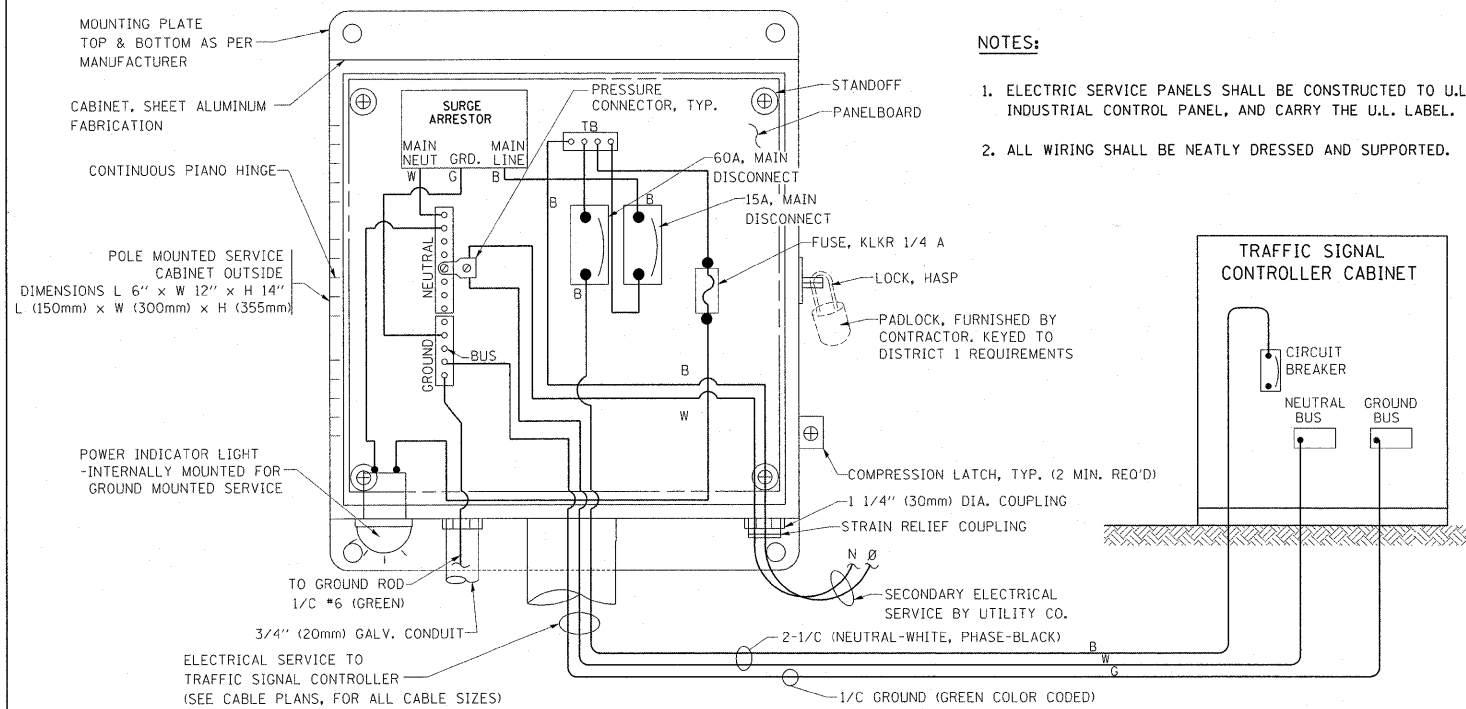
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

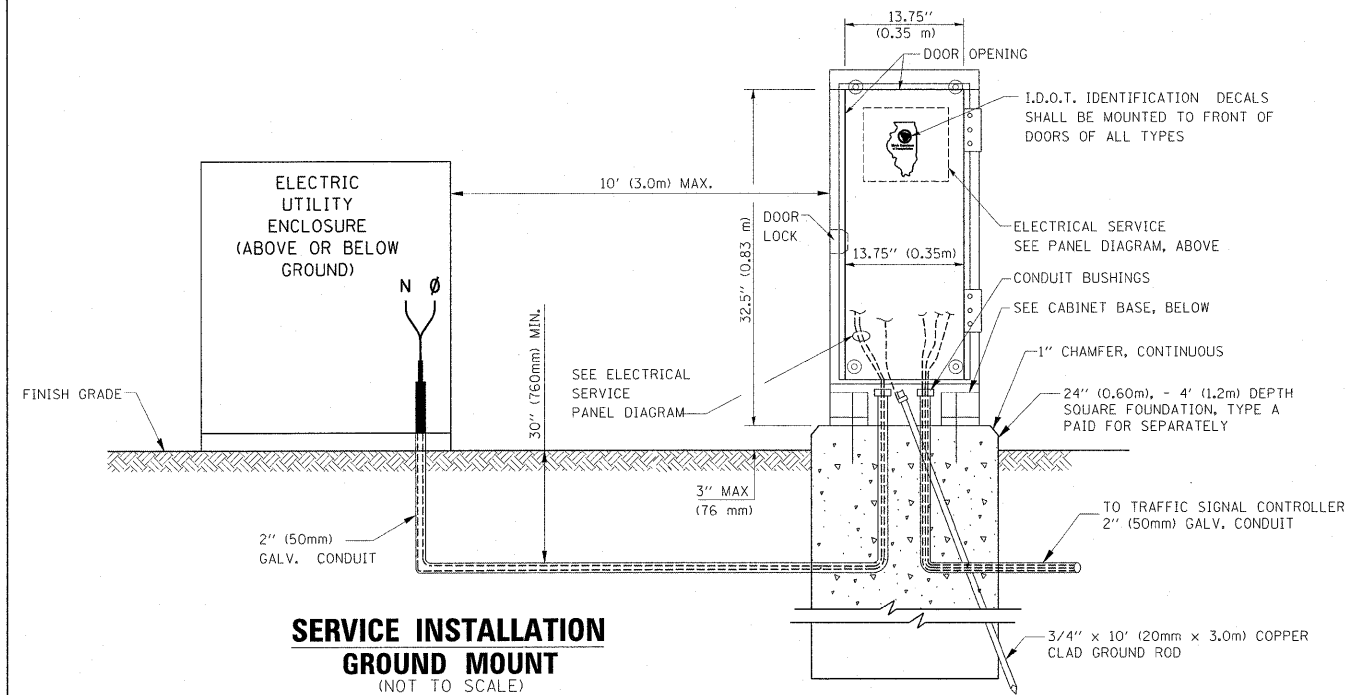
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

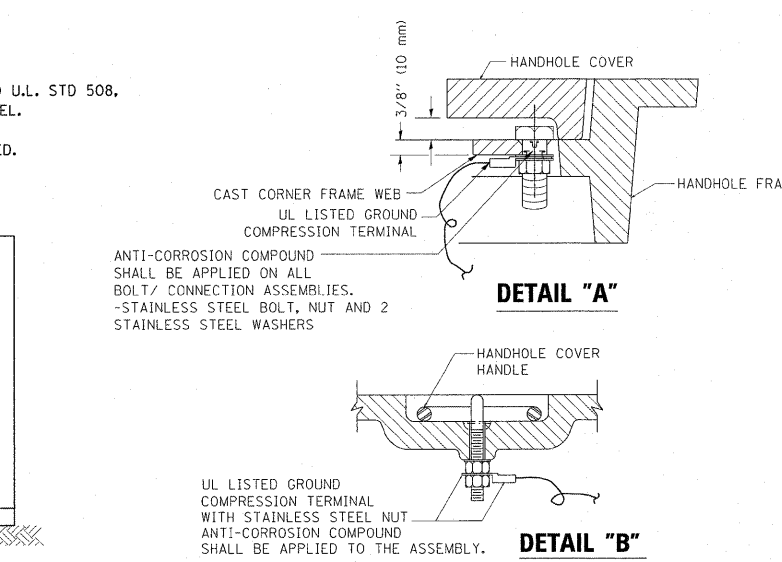
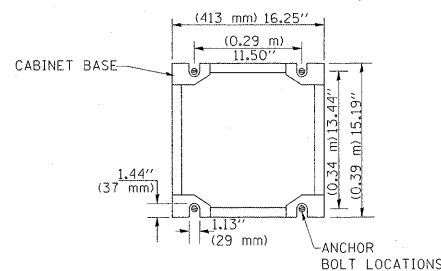


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



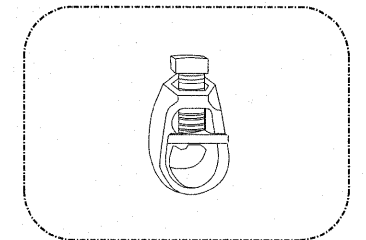
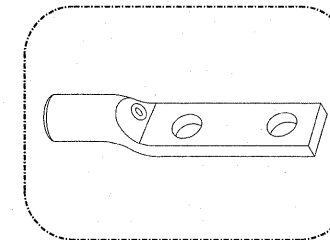
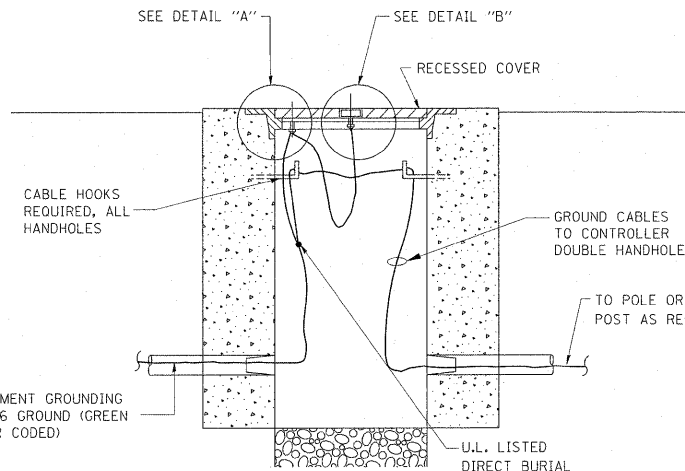
SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

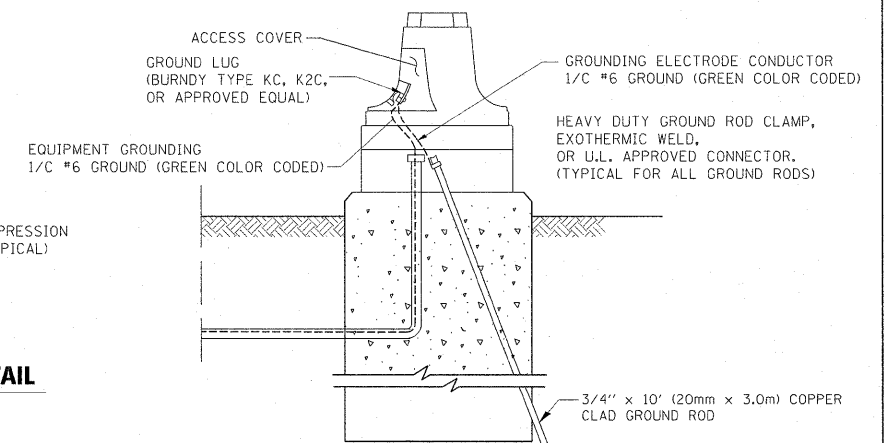
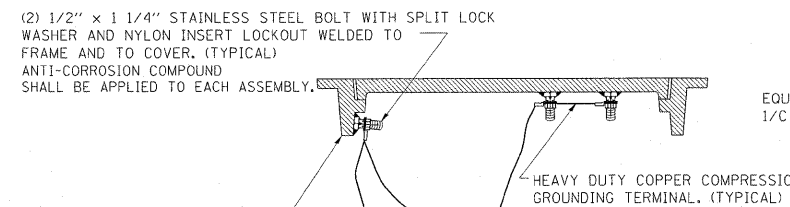


NOTES:
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

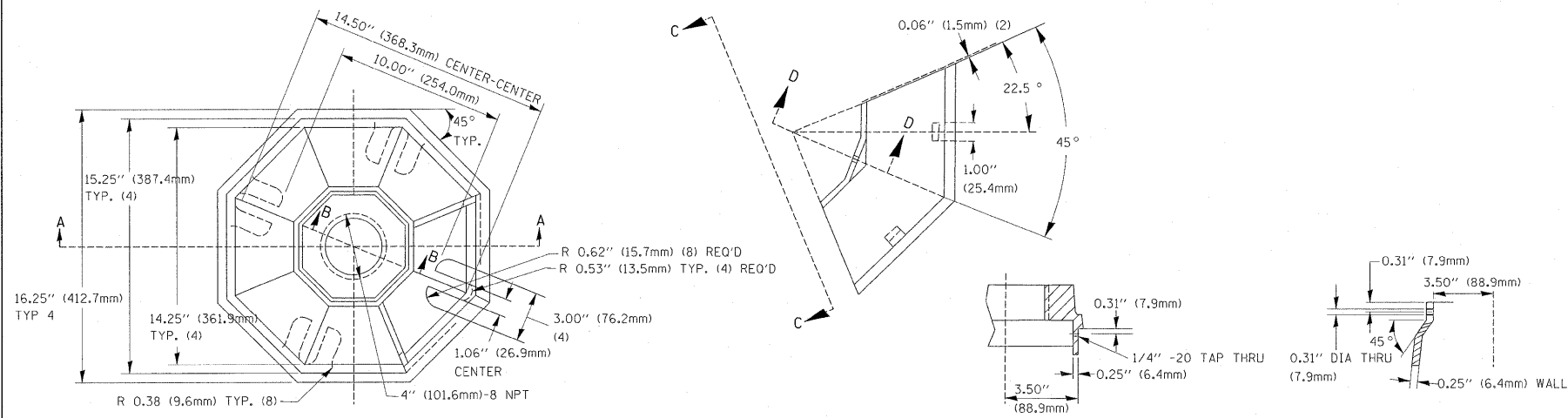


FILE NAME =	USER NAME = qureshiya	DESIGNED - DAD	REVISED -
dr:\pwwork\pwwork\qureshiya\d0212316\01sstd.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	SHEET NO. 3 OF 6 SHEETS
STA.	TO STA.

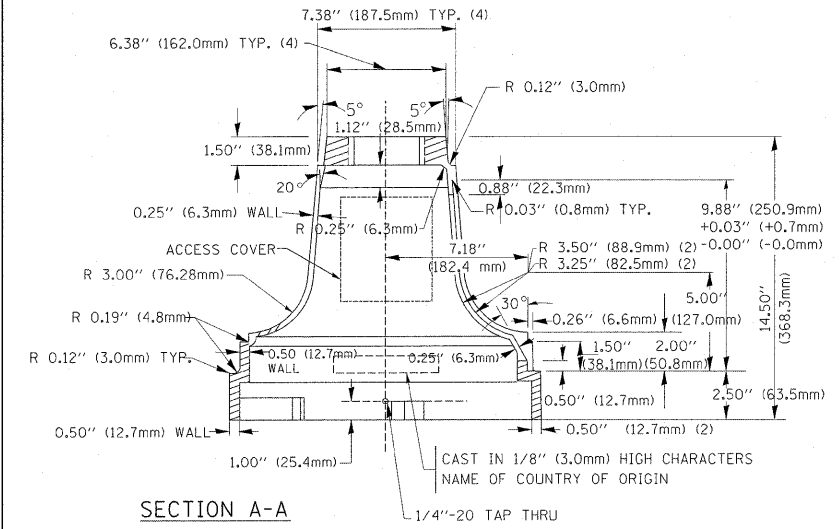
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2010-133-1	WILL	54	48
TS-05		CONTRACT NO. 60F75		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



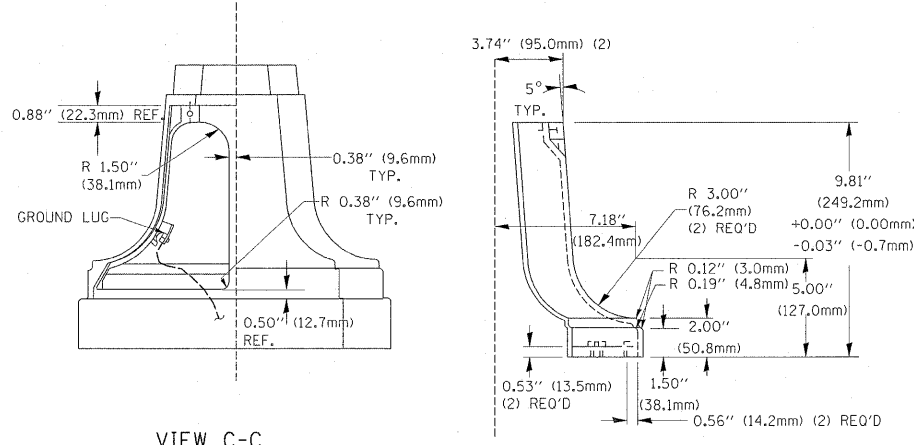
TOP VIEW

SECTION B-B

SECTION D-D

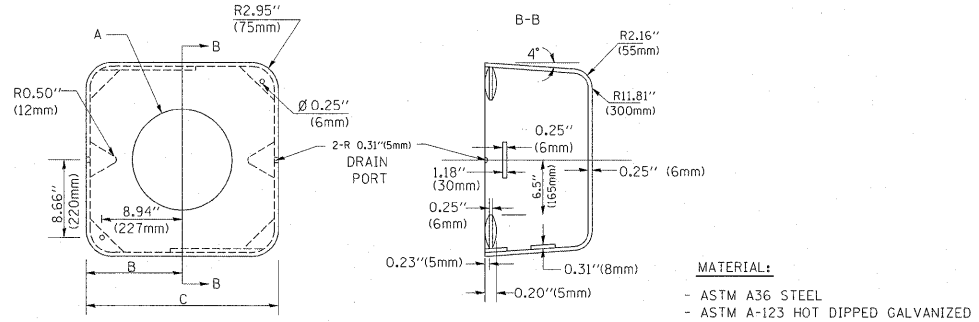


SECTION A-A



VIEW C-C

TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

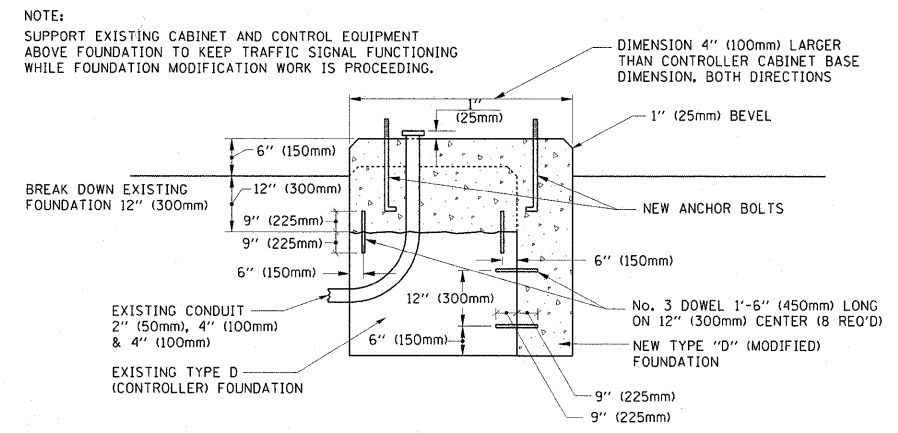


SHROUD

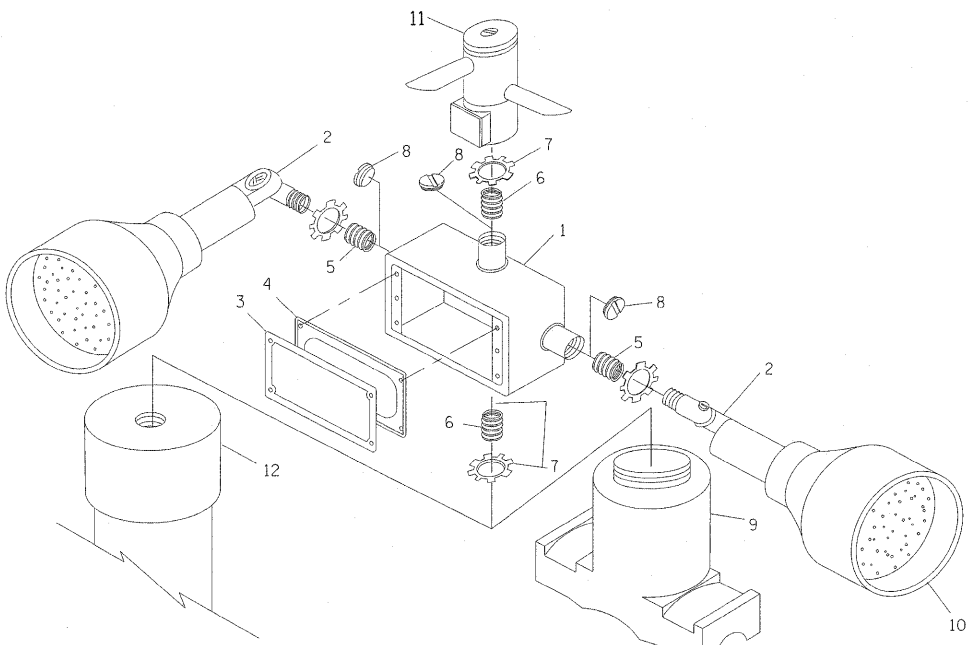
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\" (241mm)	19\" (483mm)	7\" (178mm) - 12\" (300mm)	53 lbs (24kg)
VARIABLES	10.75\" (273mm)	21.5\" (546mm)	7\" (178mm) - 12\" (300mm)	68 lbs (31 kg)
VARIABLES	13.0\" (330mm)	26\" (660mm)	7\" (178mm) - 12\" (300mm)	81 lbs (37 kg)
VARIABLES	18.5\" (470mm)	37\" (940mm)	7\" (178mm) - 12\" (300mm)	126 lbs (57 kg)

NOTES:

- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



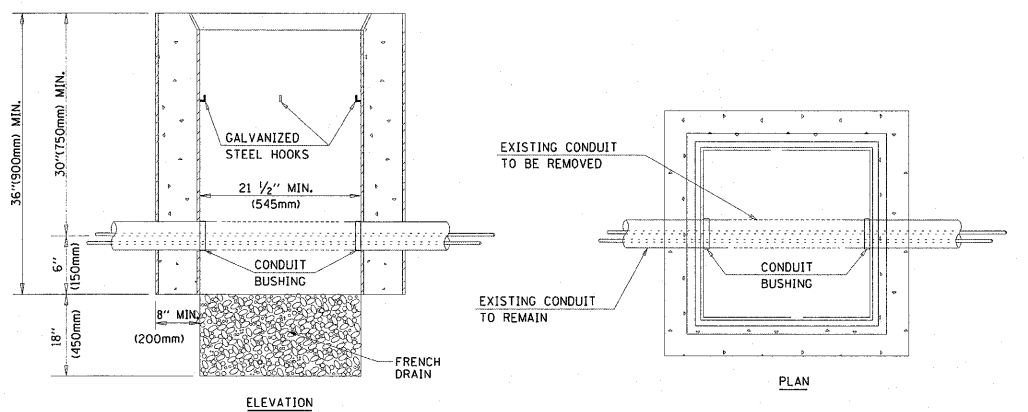
MODIFY EXISTING TYPE "D" FOUNDATION



ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\" (19 mm) CLOSE NIPPLE
7	3/4\" (19 mm) LOCKNUT
8	3/4\" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

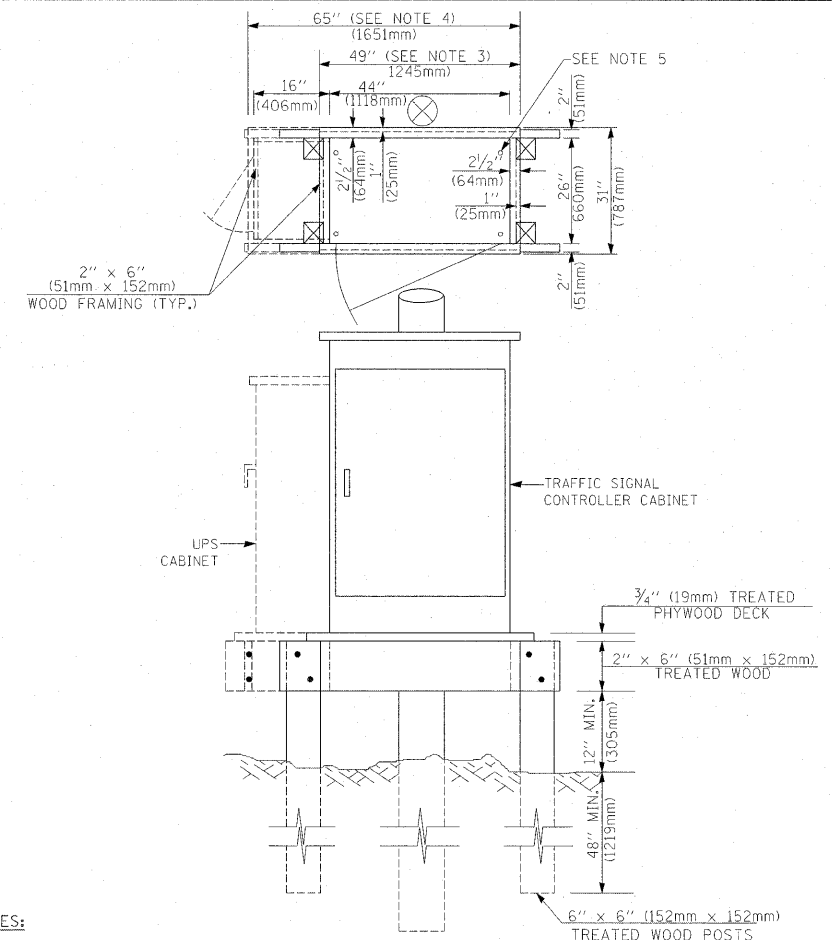
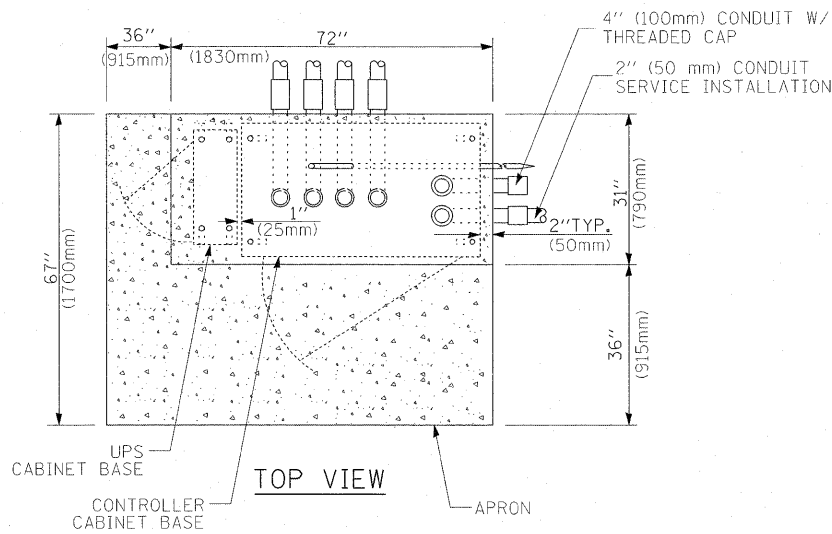
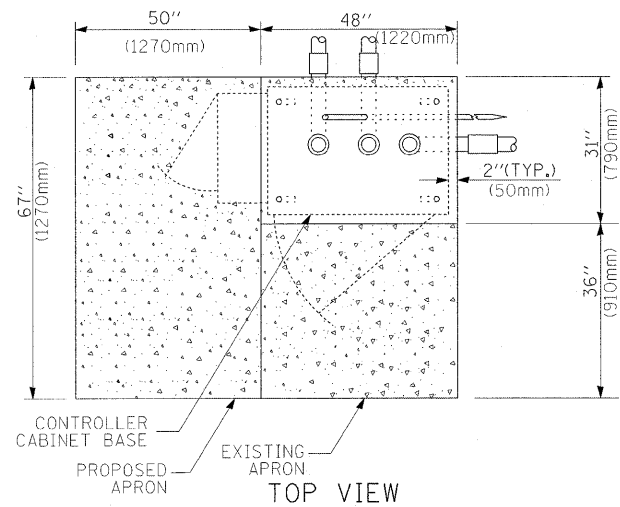
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



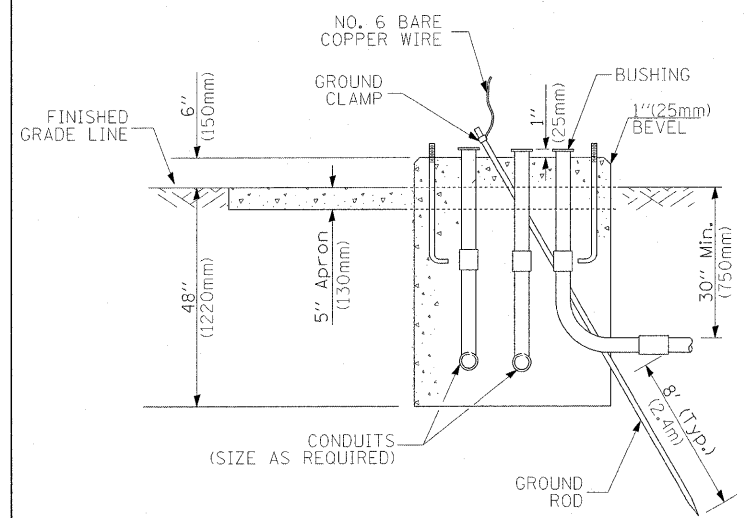
NOTES:

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

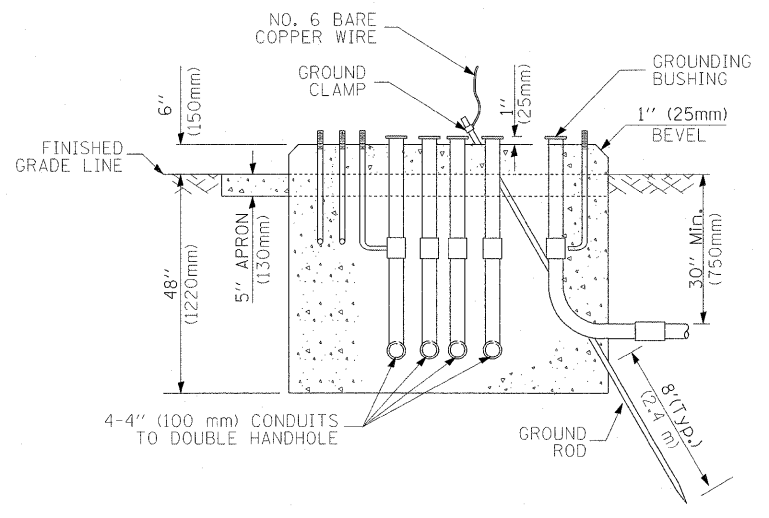
HANDHOLE TO INTERCEPT EXISTING CONDUIT



- NOTES:**
1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.



**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



**TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
 4. For mast arm assemblies with dual arms refer to state standard 878001.

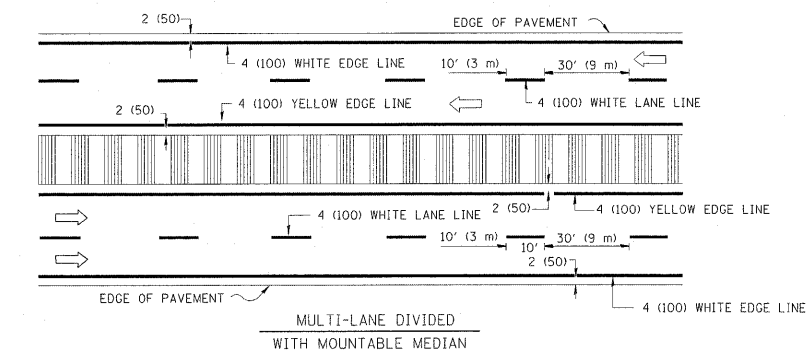
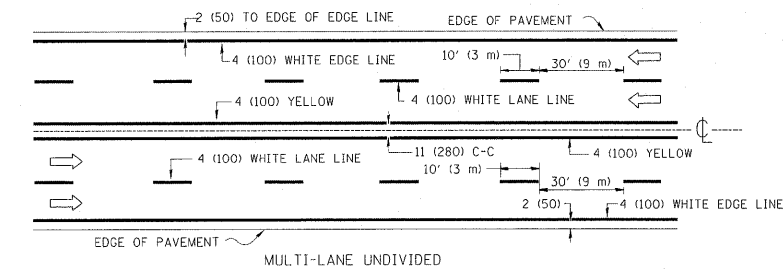
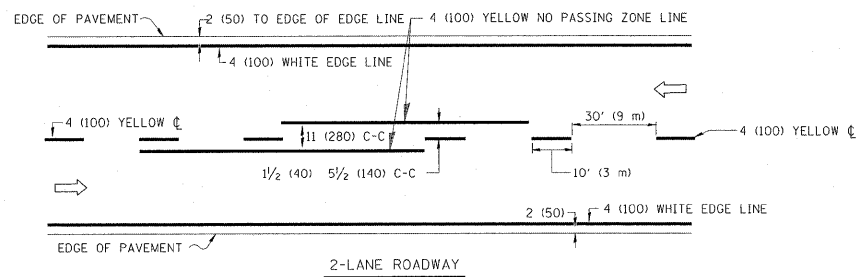
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER							
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

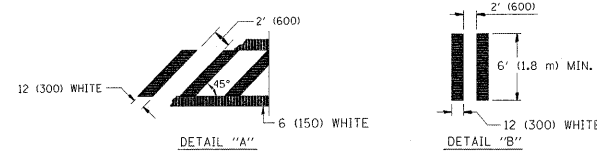
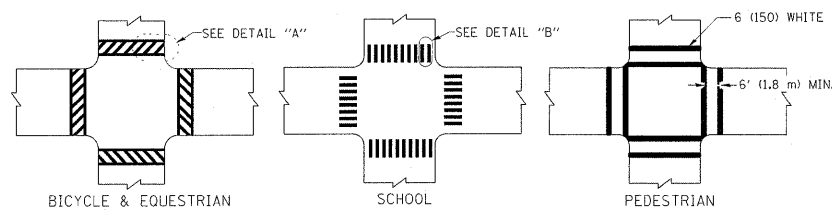
RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

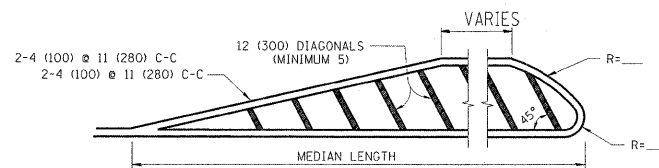
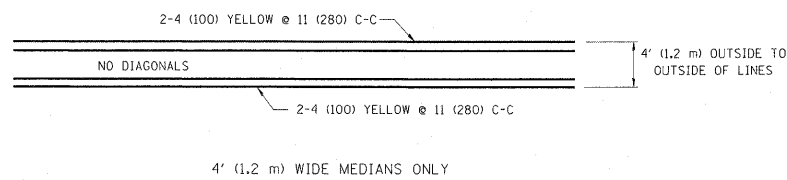


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

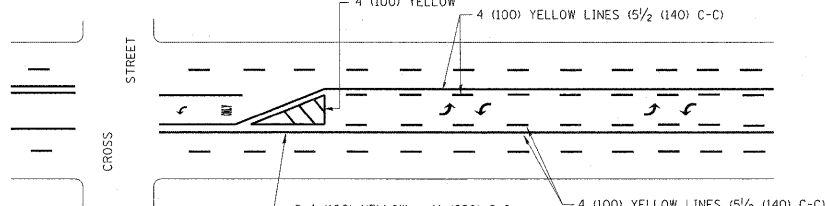


TYPICAL CROSSWALK MARKING

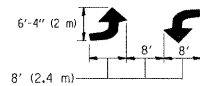


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

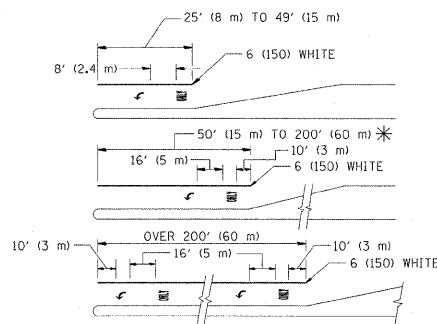


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

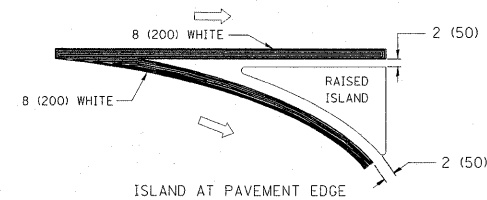
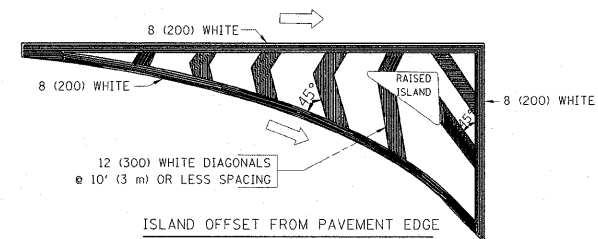


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

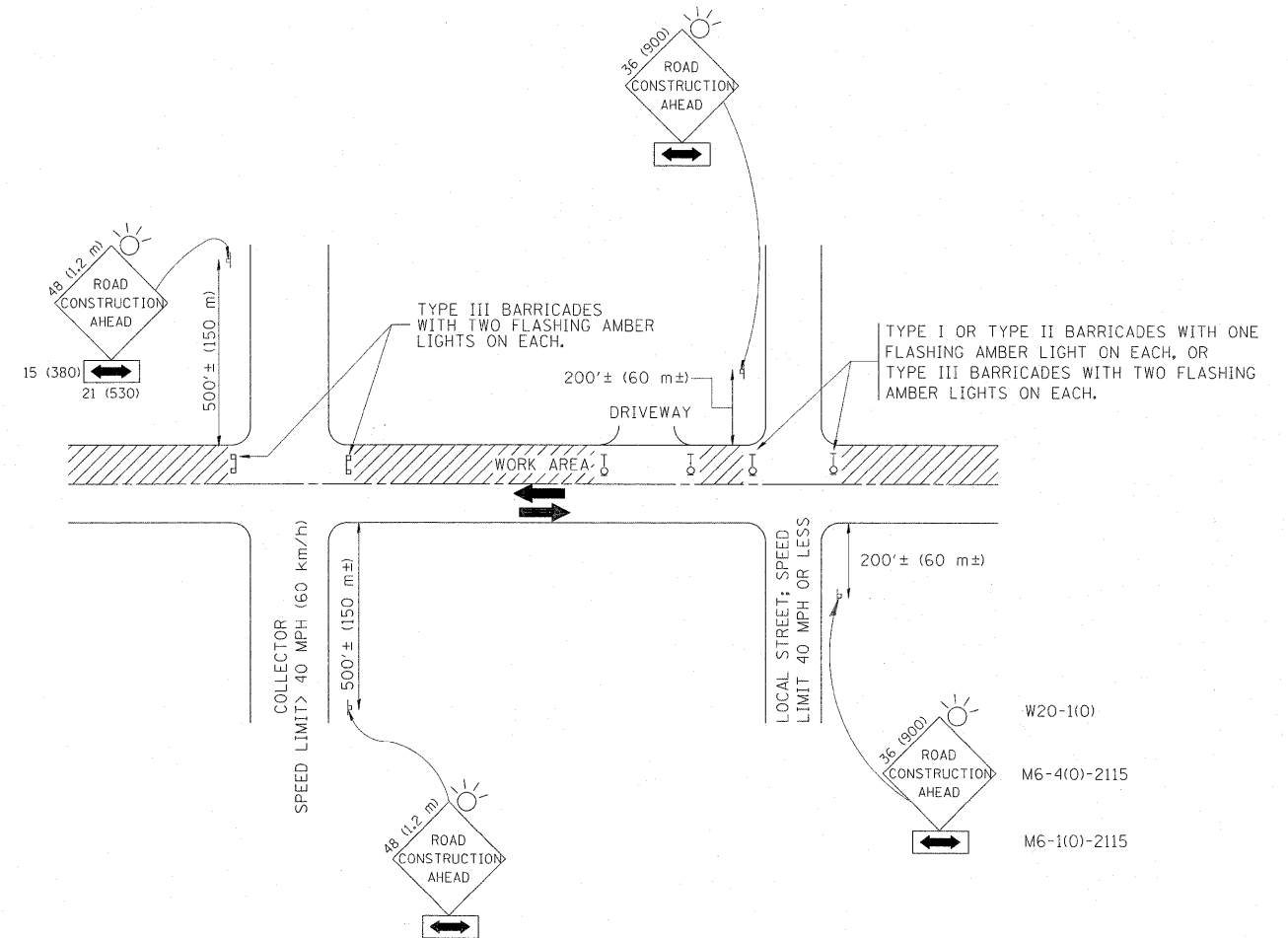
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = qureshiya	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
c:\pwork\pwork\qureshiya\08212316\Dis	Std.dgn	DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 50.6394' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/26/2010	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS			2010-133-1	WILL	54	52
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60F75	

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		846/357	
---	--	---------	--



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

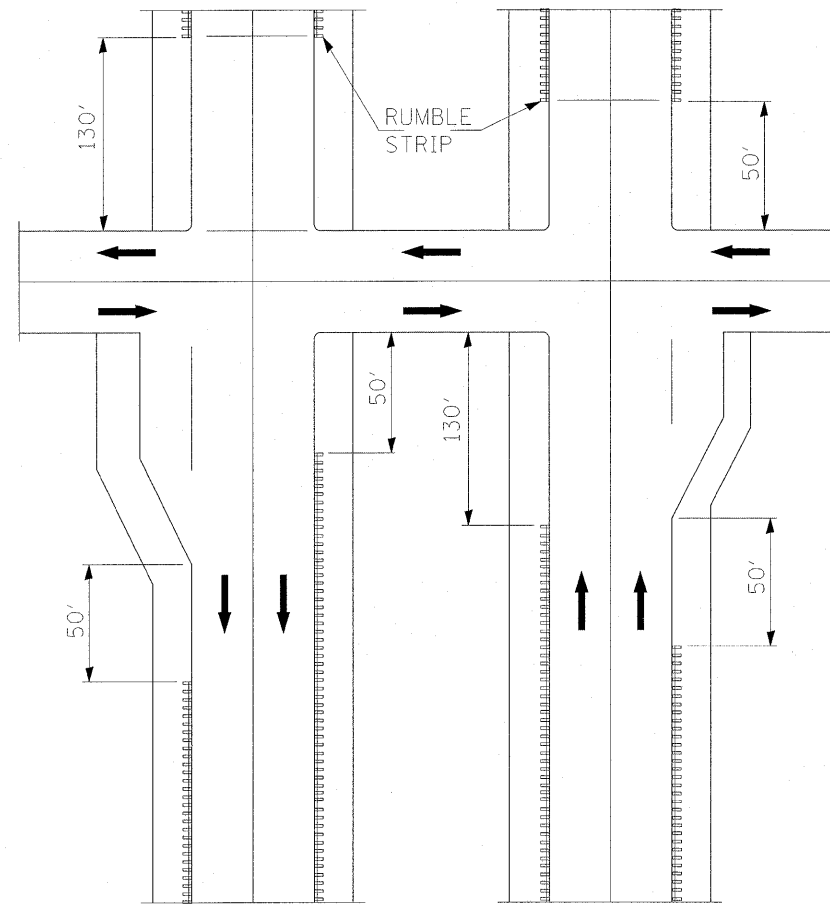
FILE NAME =	USER NAME = qureshiya	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
ct:\pw\work\p1\do\qureshiya\0212316\01515std.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED - A. HOUSEH 10-15-96
PLOT DATE = 10/26/2010		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

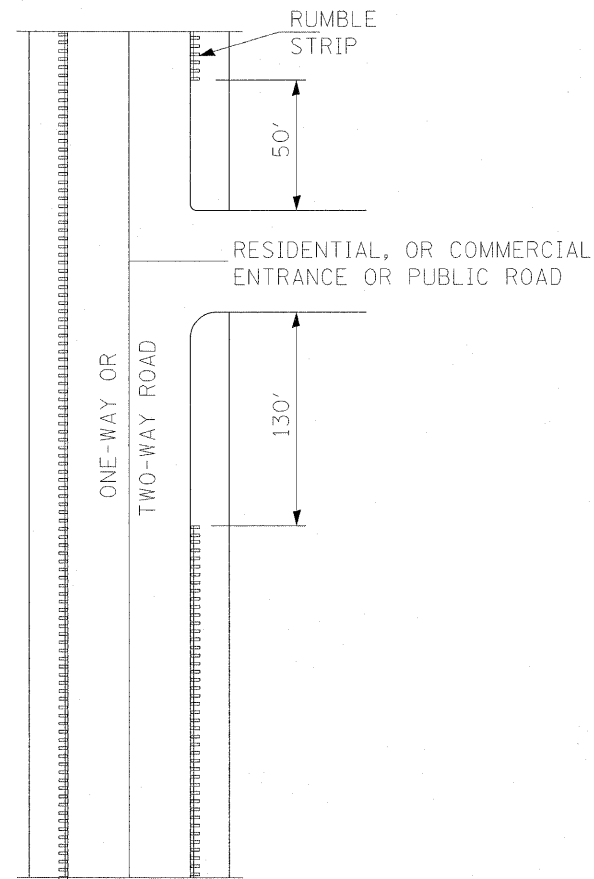
TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

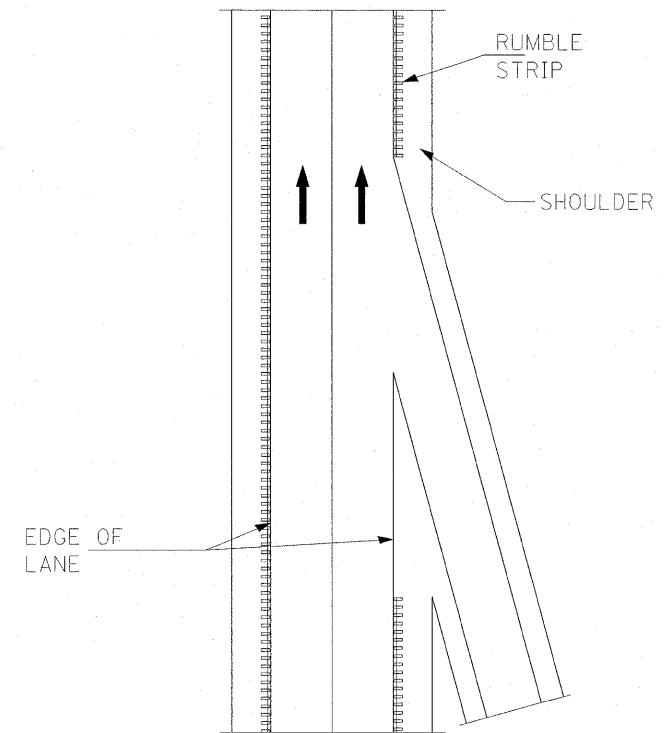
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2010-133-1	WILL	54	53A
TC-10			CONTRACT NO. 60F75	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



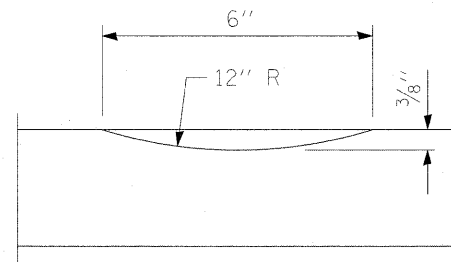
RUMBLE STRIPE EXPRESSWAY DIVIDED



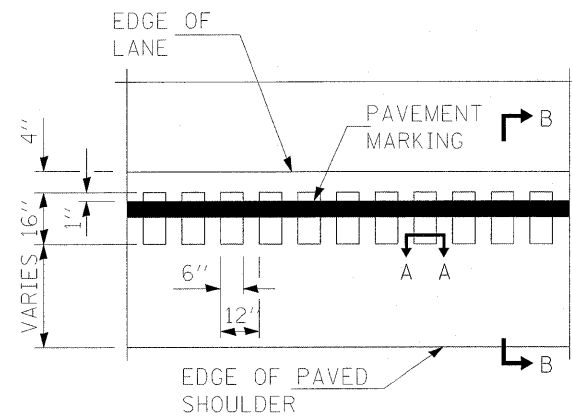
RUMBLE STRIPE INTERSECTIONS



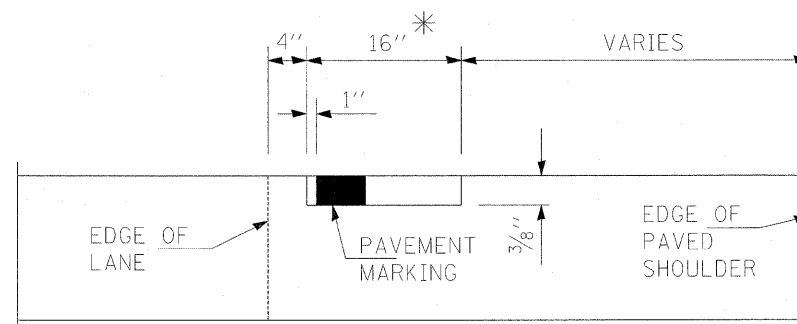
ACCELERATION LANE SHOWN
RUMBLE STRIPE ACCELERATION OR DECELERATION LANE



SECTION A-A



PLAN FOR RUMBLE STRIPE



SECTION B-B

GENERAL NOTES

ON PORTLAND CEMENT CONCRETE SHOULDERS, NO SHOULDER RUMBLE STRIPE SHALL BE LOCATED CLOSER THAN 150 mm (6") TO A TRANSVERSE JOINT.

OMIT SHOULDER RUMBLE STRIPE ACROSS STRUCTURES.

SHOULDER RUMBLE STRIPES TO BE PAID FOR AS SHOULDER RUMBLE STRIPE AND THERMOPLASTIC PAVEMENT MARKING - LINE 4"

* 8" WIDE RUMBLE STRIPES TO BE INSTALLED AT LOCATIONS ADJACENT TO GUARDRAIL W. HMA SHOULDERS < 3'

FILE NAME =	USER NAME = qureshtya	DESIGNED -	REVISED -
ct:\pwwork\pwwork\qureshtya\d0212316\1122609-shr-plan.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/26/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHOULDER RUMBLE STRIPE FOR NON-FREEWAY

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2010-133-1	WILL	54	54
* 846/357			CONTRACT NO. 60F75	
ILLINOIS FED. AID PROJECT				