

Item #9C:
Village Trustee O'Connor
IL 53 & Old Hicks Intersection Improvements - Update

MEMORANDUM

To: Mr. David A. Lothspiech, Village Manager
Village of Long Grove

Fr: Mr. Geoffrey L. Perry, P.E. – Village Engineer

Date: September 4, 2018

Re: Project Overview
Route 53 Channelization / IDOT Project
Village of Long Grove

Our office has completed a high-level, cursory review of IDOT's Route 53 Channelization Project. The following is a brief summary of the scope of the project:

- Pavement widening from Mardan Drive to 400-feet east of Middlesax Drive
 - Addition of Left-Turn Lane onto Mardan Drive
 - Addition of Left-Turn Lane onto Old Hicks Road
 - Addition of Left-Turn Lane onto Middlesax Drive
 - All Left-Turn Lanes are 10-foot wide, which is narrower than the 12-foot wide thru lanes
- Pavement Resurfacing from Long Grove Road to Mardan Drive
- Entire length of project to have 8-foot wide paved shoulders
- Stage I of construction is the south, eastbound lane widening
 - Westbound traffic will be shifted onto the existing shoulder; northern edge of traffic will be the northern edge of the existing shoulder
 - Thru lanes will be 11-foot wide
- Stage II of construction is the north, westbound shoulder reconstruction and widening
 - Thru lanes will be 10-foot wide
 - All traffic will be on the existing roadway, not on the shoulders; southern edge of traffic will be the northern (inside) edge of the new shoulder
- Stage III of construction will be the surface removal (milling) of the existing drive lanes and asphalt surfacing of the entire project
 - There is no detailed Maintenance of Traffic Plan for Stage III; we assume this work will be completed under traffic, with flaggers
- The limits of construction is generally right-of-way to right-of-way; the limits become narrower east of Middlesax Drive
- Driveways being reconstructed in right-of-way
- Tree Removals
 - 1,436" (6" diameter – 15" diameter); 157 total trees
 - 911" (over 15" diameter); 34 total trees
- Storm sewer drainage improvements on north side of Route 53, opposite Arboria of Long Grove
- Ditch re-shaping throughout the project
- Existing 6'x6' box culvert being fitted with a 36" diameter pipe, south of 3255 Mayflower Lane

David Lothspeich

To: Geoff Perry
Subject: RE: Request for Information - IDOT Contract 62B61 / Route 53 Channelization, Long Grove

From: Geoff Perry <gperry@gha-engineers.com>
Sent: Friday, August 31, 2018 2:32 PM
To: jonathan.schumacher@illinois.gov
Cc: David Lothspeich <dlothspeich@longgroveil.gov>
Subject: Fwd: Request for Information - IDOT Contract 62B61 / Route 53 Channelization, Long Grove

Hi Jonathan,

Our appreciation for meeting with the Village to discuss the Route 53 Channelization Project, near Old Hicks Road, this morning. In review of the plans and recent resident calls received by the Village, I'd like request additional information on the following:

1. The resident of 3255 Mayflower Lane has contacted the Village in regards to poor drainage in his rear yard. Per the Lake County aerial topography, there is a depression in his rear yard that may overflow to the existing 6'x6' box culvert on Route 53, Station 504+17.51. The proposed plans include installation of a 36" diameter pipe in the existing box culvert; attached are the plan sheets showing this work. Could you provide us with the drainage calculations to support the proposed work?
2. IDOT recently issued the attached letter to the developer of Arboria of Long Grove / 2300 Illinois Route 53 in regards to Permit Number 1-T-16-0258-A. As stated in the letter, the developer is required to grind and overlay a section of pavement in the westbound lane in front of their access, specifically at the butt joint. While I am not advocating for the developer or suggesting they be relieved of the requirements of their permit, is there an opportunity to coordinate this work between the developer and IDOT's imminent project? The Village has experienced other occasions where work is completed and then reconstructed as part of another project soon thereafter. Just looking for ways to avoid this if possible; that's all.

Thanks,
Geoff

--
Geoffrey L. Perry, P.E.
Associate / Senior Engineer



625 Forest Edge Drive | Vernon Hills, Illinois 60061
Office: [\(847\) 478-9700](tel:8474789700) | Fax: [\(847\) 478-9701](tel:8474789701)
Direct: [\(847\) 821-6231](tel:8478216231) | Email: gperry@gha-engineers.com
www.gha-engineers.com

--
Geoffrey L. Perry, P.E.

David Lothspeich

To: Geoff Perry
Subject: RE: Work Commencement - Route 53 Channelization Project (IDOT Project)

From: Geoff Perry <gperry@gha-engineers.com>
Sent: Friday, August 31, 2018 2:20 PM
To: Mark Trackman <mark@americanalarmcorp.com>
Cc: David Lothspeich <dlothspeich@longgroveil.gov>
Subject: Work Commencement - Route 53 Channelization Project (IDOT Project)

Hi Mark,

The Illinois DOT has begun work on their Route 53 channelization project, with utility relocation efforts at this time.

I wanted to bring to your attention that IDOT plans to modify the existing 6'x6' box culvert under Route 53, near the southeast corner of your property, by installing a 36" pipe inside the existing box culvert. This work will reduce the conveyance capacity of the existing box culvert.

Our office has contacted IDOT and requested the documentation to support these improvements and confirm the scope of work. The Village is sensitive to drainage in this area and is taking proactive steps to verify the impact of the proposed improvements before the storm sewer construction begins.

Have a great holiday weekend,
Geoff

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Geoffrey L. Perry, P.E.
Associate / Senior Engineer



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06-15-2018 LETTING ITEM 006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. DISTRICT	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1261	530N-3	LAKE	9	3
ILLINOIS CONTRACT NO. 62B61				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE VILLAGE OF LONG GROVE

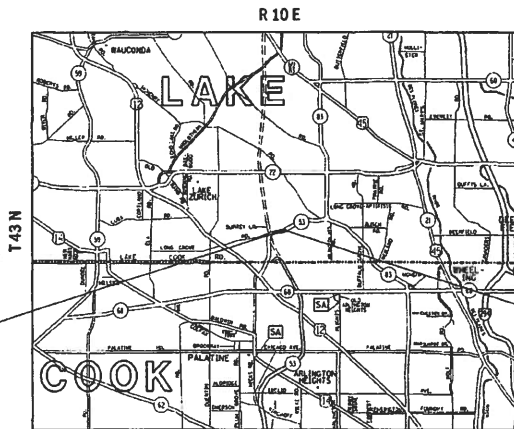
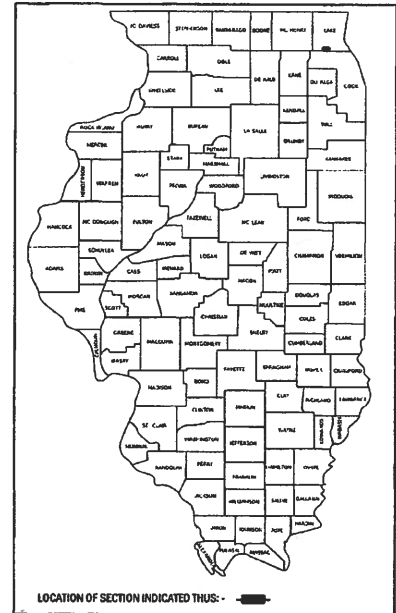
TRAFFIC DATA:
IL 53
2017 ADT = 23,700
POSTED AND DESIGN SPEED LIMIT = 45 MPH

PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 1261 (IL 53)
AT OLD HICKS RD.
SECTION: 530N-3
PROJECT: STP-AXG7(828)
CHANNELIZATION
LAKE COUNTY

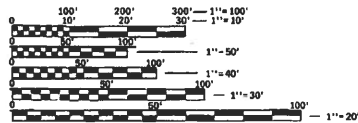
C-91-074-16

D-91-074-16



PROJECT BEGINS
STA. 483+75

PROJECT ENDS
STA. 512+68



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: DAN WILGREEN (847)705-4240
PROJECT MANAGER: FAWAD AQUEEL (847)705-4247

CONTRACT NO. 62B61

GROSS & NET LENGTH = 2,983 FT. = 0.548 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED MARCH 15, 2018

Anthony A. ... REGIONAL ENGINEER

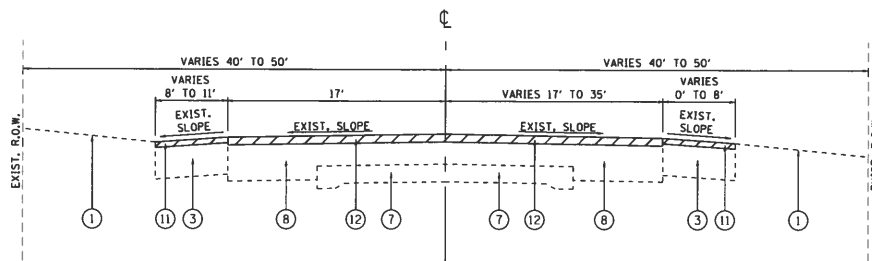
May 11, 2018

... ENGINEER OF DESIGN AND ENVIRONMENT

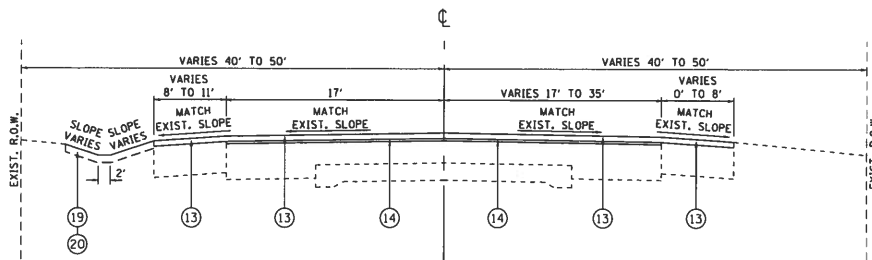
May 11, 2018

Paul C. ... DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS



IL 53
EXISTING TYPICAL SECTION
 STA. 488+79 TO STA. 495+55



IL 53
PROPOSED TYPICAL SECTION
 STA. 488+79 TO STA. 495+55

LEGEND:

- ① EXISTING SOD
 - ② EXISTING PCC SHOULDERS, 8"
 - ③ EXISTING HMA SHOULDERS, 8" OR 12"
 - ④ EXISTING AGGREGATE SHOULDER, 8"
 - ⑤ EXISTING AGGREGATE SUBGRADE, 12"
 - ⑥ EXISTING HMA BINDER/BASE COURSE, ± 13" TO ± 14 1/4"
 - ⑦ EXISTING CONCRETE BASE COURSE, ± 7" TO ± 9"
 - ⑧ EXISTING HMA SURFACE/WIDENING, ± 7 1/2" TO ± 21"
 - ⑨ EXISTING COMB. CONC. CURB AND GUTTER
 - ⑩ EXISTING AGGREGATE BASE COURSE, 6"
 - ⑪ PROPOSED HMA SURFACE REMOVAL, 1 3/4"
 - ⑫ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
 - ⑬ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", NTO, 1 3/4"
 - ⑭ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, NSO, 3/4"
 - ⑮ PROPOSED HMA BASE COURSE WIDENING, 8 1/2"
 - ⑯ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
 - ⑰ PROPOSED HMA SHOULDERS, 8"
 (INCLUDES POLYMERIZED HMA SURFACE COURSE, MIX "E", NTO, 1 3/4"
 AND HMA BINDER IL-19 mm, 6 1/4")
 - ⑱ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 3"
 - ⑲ PROPOSED TOPSOIL EXCAVATION AND PLACEMENT
 (PLACED AT A DEPTH OF 4")
 - ⑳ PROPOSED SEEDING, CLASS 2A
- R = TO BE REMOVED
 (SEE ROADWAY PLANS FOR LOCATIONS OF REMOVAL)

NOTES:

- 1. THE CONTRACTOR SHALL MILL FIRST PRIOR TO PATCHING BETWEEN STA. 488+79 AND STA. 495+55.

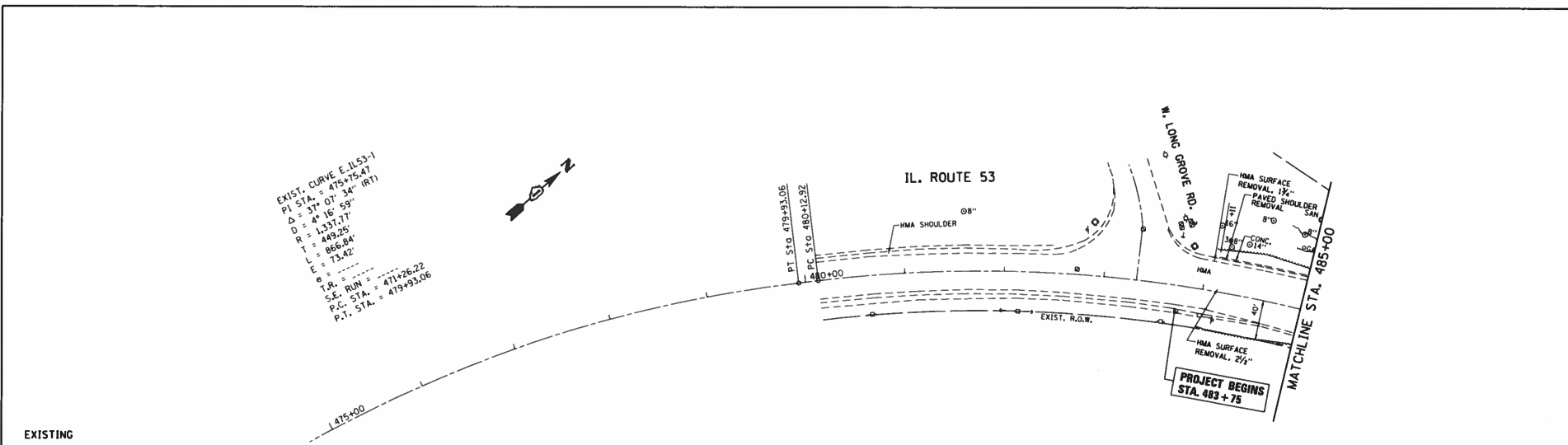
FILE NAME *	USER NAME *	DESIGNED -	REVISED -
pm\ill04\EBID\ITEG\illinois.gov\PI\DOT\O...
PLOT SCALE *	CHECKED -	DATE -	REVISED -
100.0000 1/ in.
PLOT DATE *	DATE -	REVISED -	...
Default

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED TYPICAL SECTIONS
 IL 53 AT OLD HICKS RD.

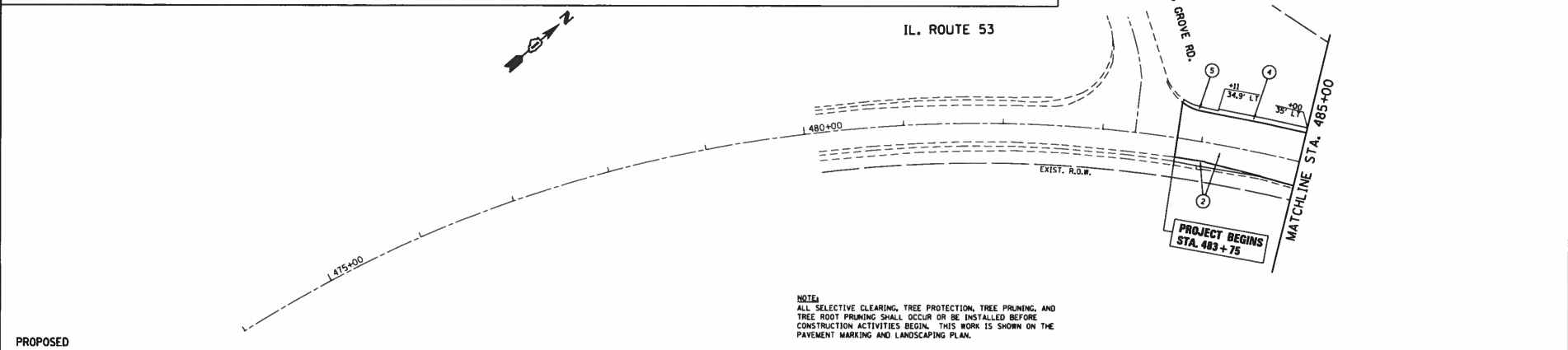
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1261	530N-3	LAKE	80	11
SCALE: SHEET OF SHEETS				CONTRACT NO. 62861
SCALE: SHEET OF SHEETS STA. TO STA.				(ILLINOIS) FED. AID PROJECT

EXIST. CURVE E IL 53-1
 PI STA. = 475+75.47
 $\Delta = 37^{\circ} 07' 34''$ (RT)
 $D = 1337.71'$
 $R = 489.25'$
 $T = 866.84'$
 $L = 73.42'$
 $e = \dots$
 T.A. = \dots
 S.F. RUN = 471+26.22
 P.C. STA. = 479+93.06
 P.T. STA. = 479+93.06



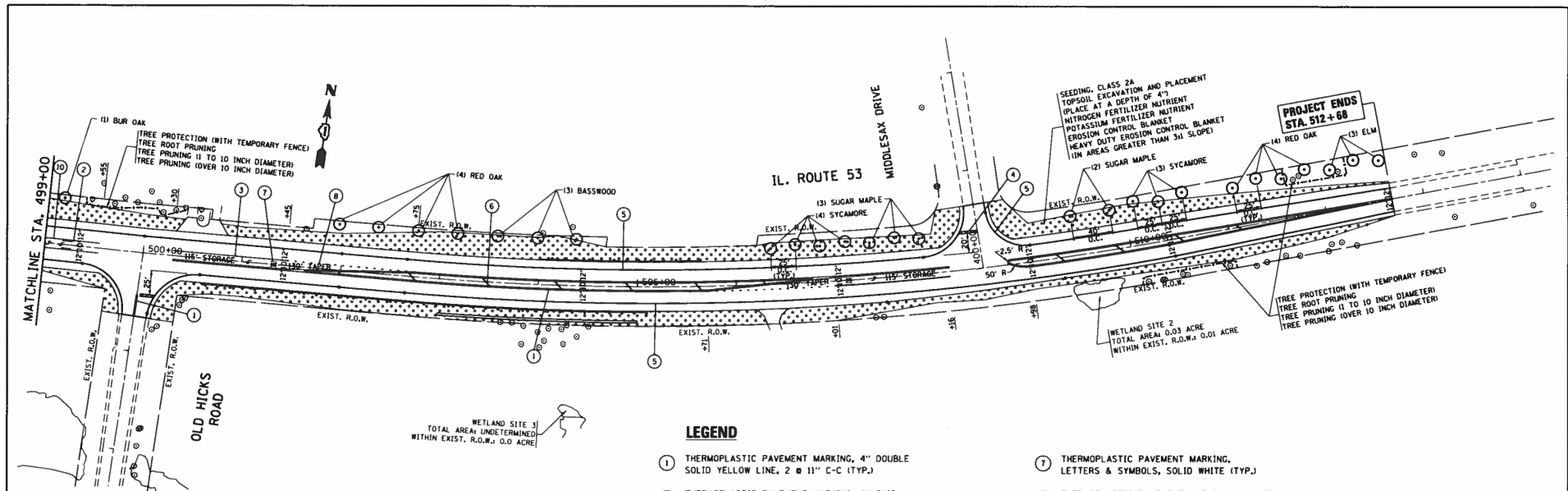
LEGEND

<p>PROPOSED PAVEMENT WIDENING (TYP.)</p> <p>① PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4" PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4" PROPOSED HMA BASE COURSE WIDENING, 8 1/2" PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"</p> <p>PROPOSED PAVEMENT RESURFACING (TYP.)</p> <p>② PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4" PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"</p>	<p>PROPOSED SHOULDER RECONSTRUCTION (TYP.)</p> <p>③ PROPOSED HMA SHOULDERS, 8" (INCLUDES POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4" AND HMA BINDER IL-19 mm, 6 1/4") PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 3" PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"</p> <p>PROPOSED SHOULDER WIDENING /REPLACEMENT (TYP.)</p> <p>④ PROPOSED HMA SHOULDERS, 8" (INCLUDES POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4" AND HMA BINDER IL-19 mm, 6 1/4")</p>	<p>PROPOSED SHOULDER RESURFACING (TYP.)</p> <p>⑤ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4"</p> <p>PROPOSED DRIVEWAYS (TYP.)</p> <p>⑥ PROPOSED HMA SURFACE COURSE, MIX "D", N50, 2" PROPOSED HMA BASE COURSE, 6"</p>
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NOTE:
 ALL SELECTIVE CLEARING, TREE PROTECTION, TREE PRUNING, AND TREE ROOT PRUNING SHALL OCCUR OR BE INSTALLED BEFORE CONSTRUCTION ACTIVITIES BEGIN. THIS WORK IS SHOWN ON THE PAVEMENT MARKING AND LANDSCAPING PLAN.

FILE NAME :	USER NAME : lorigm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED ROADWAY PLAN IL 53 AT OLD HICKS RD.	F.A.L.:	SECTION	COUNTY	TOTAL SHEET	
path: \\ILB04E\BID\TEG\Illinois\gov\PI\DOT\...	PROJECT: 11001	CHECKED -	REVISED -			1261	530N-3	LAKE	80	20
Default	PLOT SCALE : 1/8" = 1'	DATE -	REVISED -			SCALE: 1"=50'		SHEET OF SHEETS STA. 485+00 TO STA. 489+00		CONTRACT NO. 62B61



LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)
- ② THERMOPLASTIC PAVEMENT MARKING, 4" SKIP DASH YELLOW LINE, 10' DASH - 30' SKIP (TYP.)
- ③ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE LINE (TYP.)
- ④ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)
- ⑤ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)
- ⑥ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW DIAGONAL LINE (TYP.)
- ⑦ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.)
- ⑧ THERMOPLASTIC PAVEMENT MARKING, 6" SKIP DASH WHITE DOTTED LINE, 2' DASH - 6' SKIP (TYP.)
- ⑨ THERMOPLASTIC PAVEMENT MARKING, 8" SOLID WHITE GORE LINE (TYP.)
- ⑩ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW LINE, 5 1/2" C-C (TYP.)
- ⑪ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE DIAGONAL LINE (TYP.)

PLANT SCHEDULE

CODE NO.	QUANTITY (EACH)	BOTANICAL NAME	COMMON NAME	SIZE
A2001720	9	ACER SACCHARUM	SUGAR MAPLE	2-1/2" CALIPER
A2005116	4	JUGLANS NIGRA	BLACK WALNUT	2" CALIPER
A2006716	5	QUERCUS MACROCARPA	BUR OAK	2" CALIPER
A2007116	8	QUERCUS RUBRA	RED OAK	2" CALIPER
A2005820	7	PLATANUS OCCIDENTALIS	SYCAMORE	2-1/2" CALIPER
A2007820	6	TILIA AMERICANA	BASSWOOD	2-1/2" CALIPER
A2008470	9	ULMUS AMERICANA PRINCETON	PRINCETON AMERICAN ELM	2-1/2" CALIPER