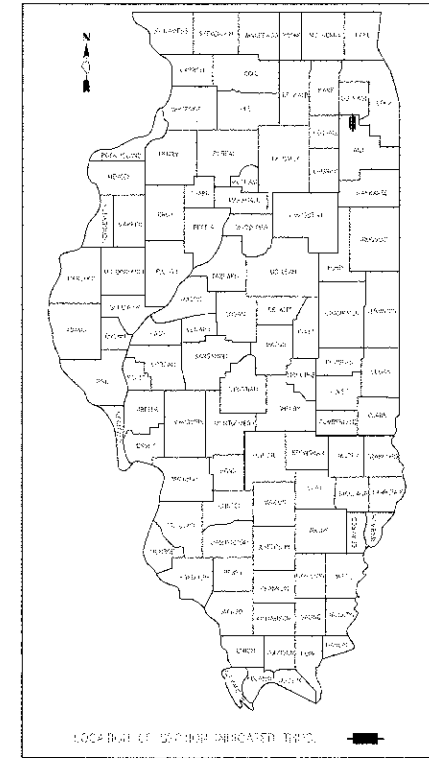


FAP	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	1
ILLINOIS		CONTRACT NO. 63714		

INDEX OF SHEETS	
1	TITLE SHEET
2	SUMMARY OF QUANTITIES
3	EXISTING & PROPOSED SECTIONS
4 - 11	DEMOLITION PLANS & HARDSCAPE PLANS
12 - 19	LANDSCAPE PLANS
20	LANDSCAPE NOTES, PLANT LIST & PLANTING DETAILS
21 - 22	LANDSCAPE SPECIFICATION
23 - 30	IRRIGATION PLANS
31	IRRIGATION SCHEDULE
32	IRRIGATION DETAILS & NOTES
33	WALL DETAILS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 PLANS FOR PROPOSED  
 FEDERAL AID HIGHWAY  
 FAP 0870 (IL ROUTE 53-BOLINGBROOK DRIVE)  
 REMINGTON BOULEVARD TO ROYCE ROAD  
 LANDSCAPED MEDIAN RECONSTRUCTION

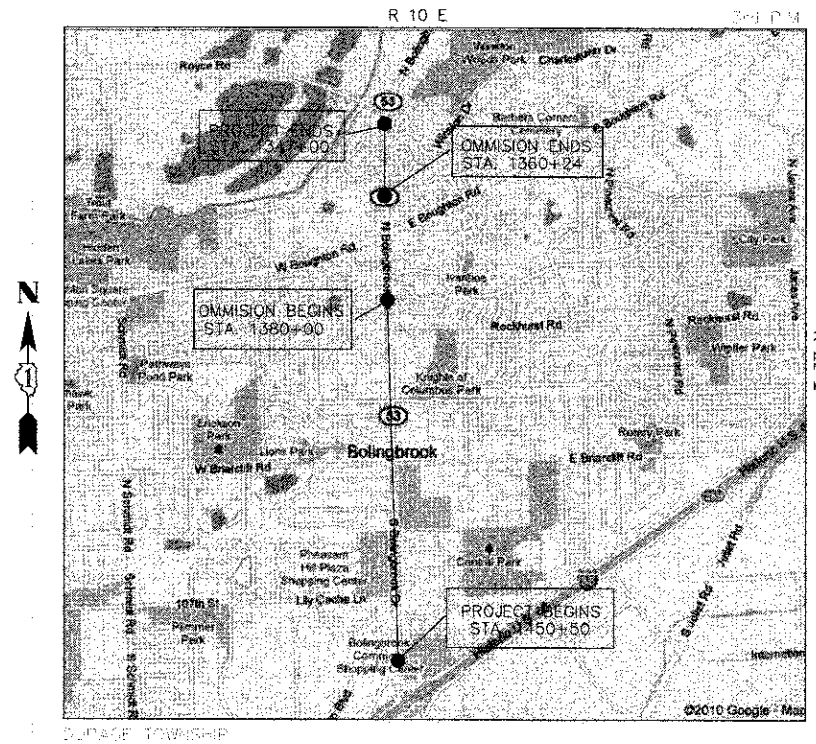
SECTION NO. 08-00049-00-LS  
 PROJECT NO. TE-00D1(796)  
 VILLAGE OF BOLINGBROOK  
 WILL COUNTY  
 JOB NO. C-91-511-08



INDEX OF APPLICABLE HIGHWAY STANDARDS	
STANDARD	TITLE
701421-5	LANE ENCLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS $\geq$ 45 MPH TO 55 MPH
701901-2	TRAFFIC CONTROL DEVICES

**SCALES**

FULL SIZE PLANS (22 x 34) HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS (11 x 17) WILL CONFORM TO REDUCED SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



LOCATION MAP  
(NOT TO SCALE)

GROSS LENGTH OF PROJECT : 10,350 FT = 1.960 MILE  
 NET LENGTH OF PROJECT: 8,374 FT = 1.586 MILE

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



DESIGN SPEED: 40/45 MPH  
 POSTED SPEED: 40/45 MPH  
 TRAFFIC VOLUME = 32,300 VPD (2011)  
 DESIGN DESIGNATION = OTHER PRINCIPAL ARTERIAL

**NO STOPPING** (USE UTILITY LOCATOR INFORMATION FOR EXCAVATORS)  
 48 Hours (2 working days) Before You Dig.  
 TOLL FREE: 1-800-552-0123 or 511

CONTRACT NO. 63714



*Pratik C. Patel*  
 PRATIK PATEL, ILLINOIS P.E. 062051388  
 VILLAGE OF BOLINGBROOK  
 EXPIRES 11/30/2013

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 12-14-2012  
 APPROVED *[Signature]*  
 VILLAGE OF BOLINGBROOK, DIRECTOR OF PUBLIC WORKS  
 PASSED JANUARY 3, 2013  
*[Signature]*  
 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS  
 Releasing For Bid Based on Limited Review January 3, 2013  
*[Signature]*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

## SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL	CONST. CODE 0031
21101625	TOP SOIL FURNISH AND PLACE, 6"	SQ YD	5,139	
21101855	COMPOST FURNISH AND PLACE, 12"	SQ YD	3167	
28200200	FILTER FABRIC	SQ YD	2063	
36102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	618	
67100100	MOBILIZATION	L SUM	1	
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	
A2000124	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE) , 4" CALIPER, BALLED AND BURLAPPED	EACH	3	
A2004832	TREE, GLEDITSIA TRICANTHOS INERMIS SKYLINE (SKYLINE THORNLESS COMMON HONEYLOCUST) , 4" CALIPER, BALLED AND BURLAPPED	EACH	4	
C20058G3	SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC) , CONTAINER GROWN, 3-GALLON	EACH	527	
C2008524	SHRUB, ROSA RUGOSA (RUGOSA ROSE) , 24" HEIGHT, CONTAINER	EACH	104	
C20098G3	SHRUB, SPIREA X BUMALDA FROEBELII (FROEBELII SPIREA) , 3-GALLON CONTAINER	EACH	217	
C2009918	SHRUB, SPIREA X BUMALDA GOLD FLAME (GOLD FLAME BUMALDA SPIREA) , 18" HEIGHT, BALLED AND BURLAPPED	EACH	233	
C2011024	SHRUB, SYRINGA PATULA MISS KIM (MISS KIM MANCHURIAN LILAC) , 2' HEIGHT, BALLED AND BURLAPPED	EACH	616	
K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	15.62	
K0013110	PERENNIAL PLANTS, WOODLAND TYPE, GALLON POT	UNIT	102.85	
K1001988	IRRIGATION SYSTEM SPECIAL	L SUM	1	
K1005481	SHREDDED BARK MULCH 3"	SQ YD	1,550	
X0323099	RETAINING WALL REMOVAL	CU YD	40	
X2090215	SELECT GRANULAR BACKFILL, SPECIAL	CU YD	103	
* X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	9194	
* X6080714	CONCRETE MEDIAN (SPECIAL)	SQ FT	2,748	
Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	11380	

\* SPECIALTY ITEM

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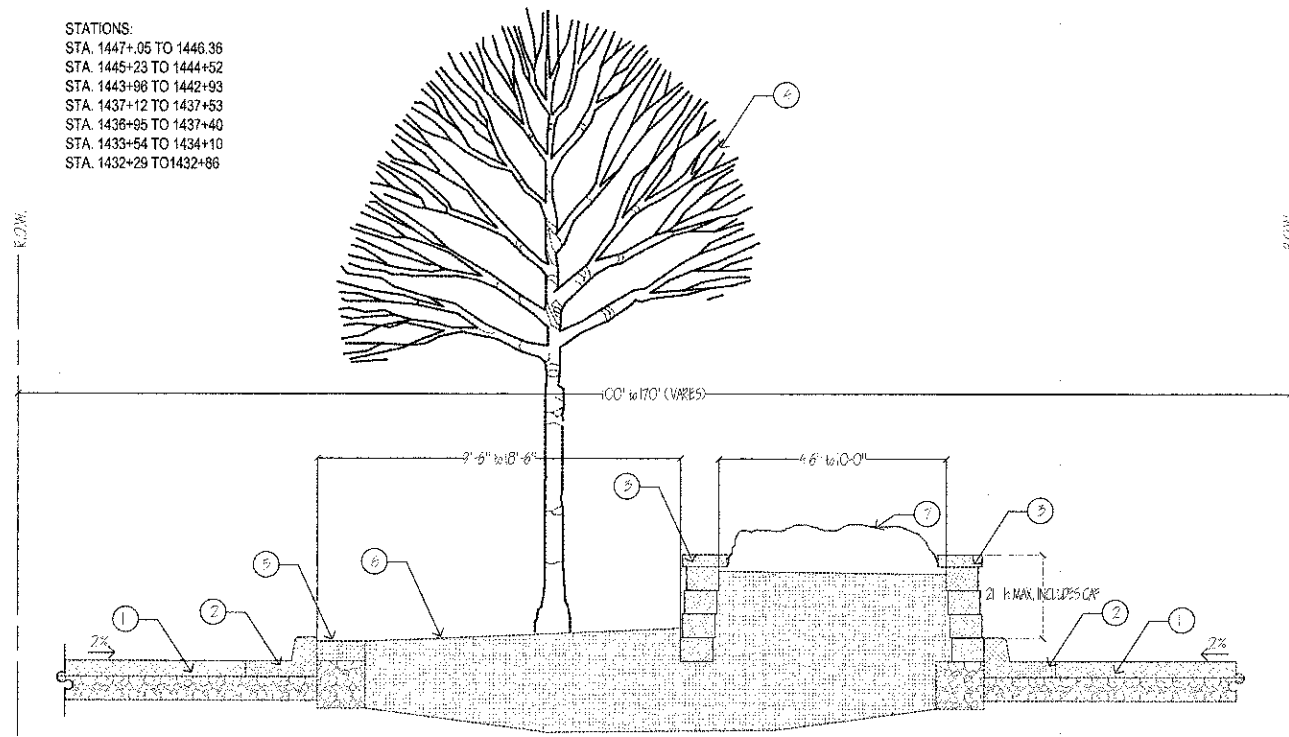
STATE OF ILLINOIS DEPARTMENT  
OF TRANSPORTATION

### SUMMARY OF QUANTITIES

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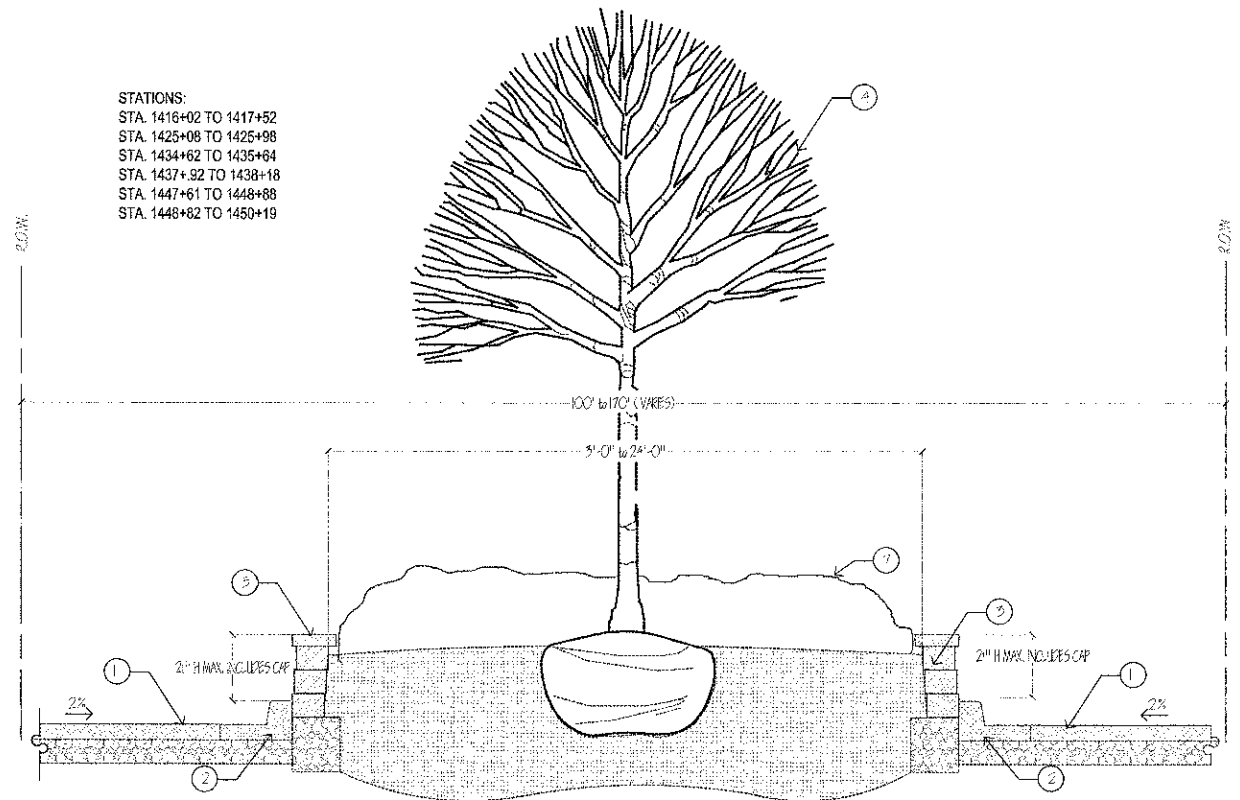
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	2
ILLINOIS			CONTRACT NO. 63714	

STATIONS:  
 STA. 1447+05 TO 1446+36  
 STA. 1445+23 TO 1444+52  
 STA. 1443+98 TO 1442+93  
 STA. 1437+12 TO 1437+53  
 STA. 1436+95 TO 1437+40  
 STA. 1433+54 TO 1434+10  
 STA. 1432+29 TO 1432+86



**1** EXISTING MEDIAN WALL- TYPICAL SECTION  
 SCALE: 1/2" = 1'-0"

STATIONS:  
 STA. 1416+02 TO 1417+52  
 STA. 1425+08 TO 1425+98  
 STA. 1434+62 TO 1435+64  
 STA. 1437+92 TO 1438+18  
 STA. 1447+61 TO 1448+88  
 STA. 1448+82 TO 1450+19



**2** EXISTING MEDIAN WALL- TYPICAL SECTION - SWALE  
 SCALE: 1/2" = 1'-0"

**EXISTING CONDITIONS LEGEND:**

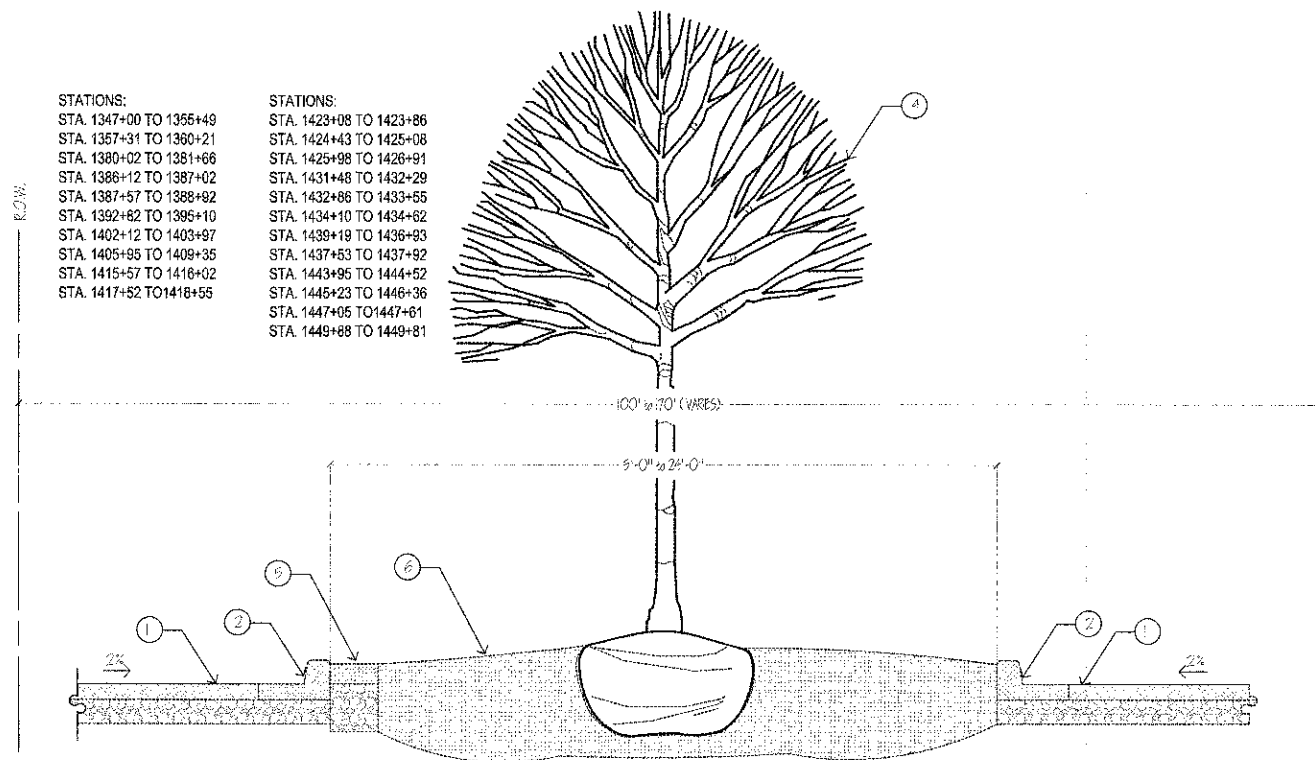
- ① Asphalt pavement
- ② Concrete curb & gutter
- ③ Pisa II retaining wall and cap stone
- ④ Deciduous shade tree
- ⑤ Maintenance strip (location varies)
- ⑥ Lawn
- ⑦ Plant material

**PROPOSED CONDITIONS LEGEND:**

- Ⓐ Pisa II retaining wall & cap stone
- Ⓑ Select granular backfill CA-7
- Ⓒ Aggregate base course Type B
- Ⓓ Undisturbed soil
- Ⓔ approved backfill
- Ⓕ Mulch
- Ⓖ Proposed plantings

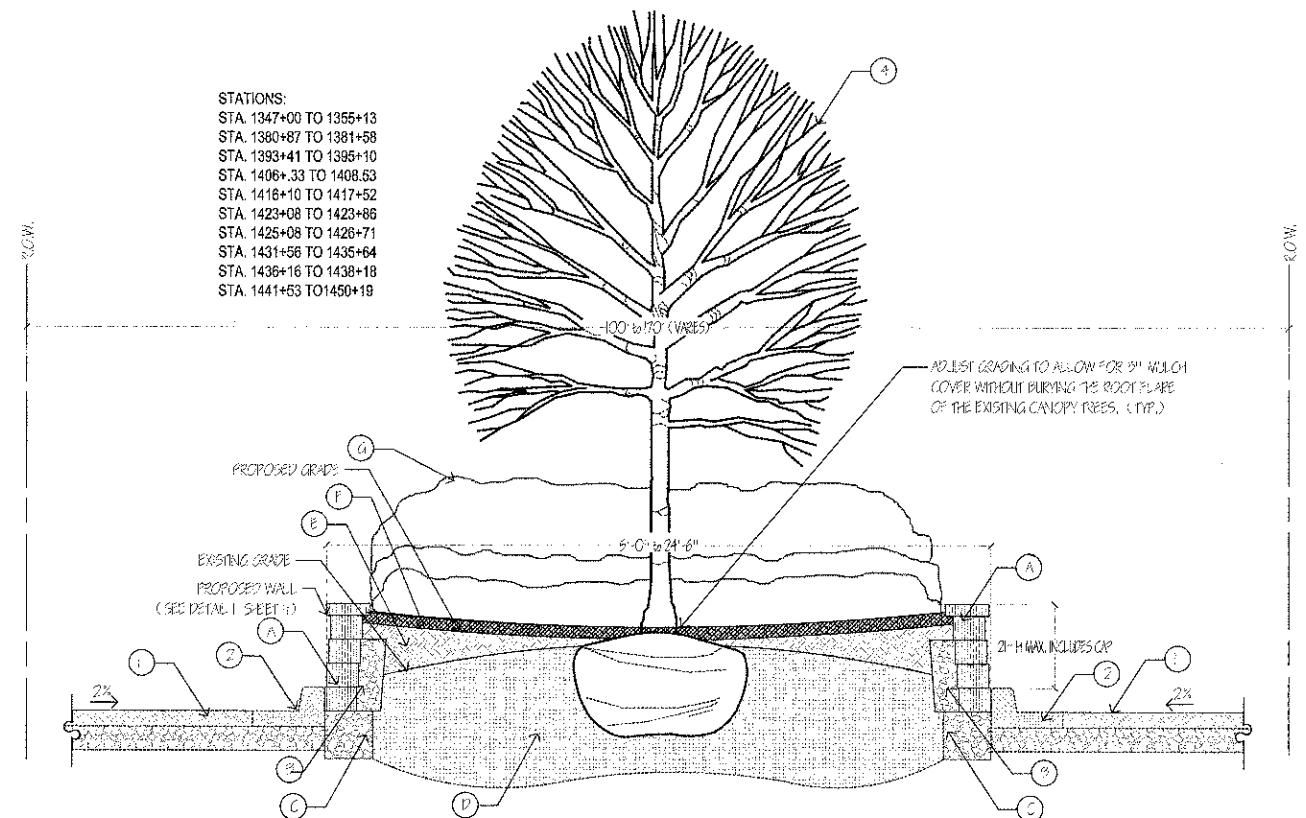
STATIONS:  
 STA. 1347+00 TO 1355+49  
 STA. 1357+31 TO 1360+21  
 STA. 1380+02 TO 1381+66  
 STA. 1388+12 TO 1387+02  
 STA. 1387+57 TO 1388+82  
 STA. 1392+82 TO 1395+10  
 STA. 1402+12 TO 1403+97  
 STA. 1405+95 TO 1409+35  
 STA. 1415+57 TO 1418+02  
 STA. 1417+52 TO 1418+55

STATIONS:  
 STA. 1423+08 TO 1423+86  
 STA. 1424+43 TO 1425+08  
 STA. 1425+98 TO 1426+91  
 STA. 1431+48 TO 1432+29  
 STA. 1432+86 TO 1433+55  
 STA. 1434+10 TO 1434+62  
 STA. 1439+19 TO 1436+93  
 STA. 1437+53 TO 1437+92  
 STA. 1443+95 TO 1444+52  
 STA. 1445+23 TO 1446+36  
 STA. 1447+05 TO 1447+81  
 STA. 1449+88 TO 1449+81



**3** EXISTING MEDIAN- TYPICAL SECTION  
 SCALE: 1/2" = 1'-0"

STATIONS:  
 STA. 1347+00 TO 1355+13  
 STA. 1380+87 TO 1381+58  
 STA. 1393+41 TO 1395+10  
 STA. 1406+33 TO 1408.53  
 STA. 1418+10 TO 1417+52  
 STA. 1423+08 TO 1423+86  
 STA. 1425+08 TO 1426+71  
 STA. 1431+56 TO 1435+64  
 STA. 1436+16 TO 1438+18  
 STA. 1441+53 TO 1450+19



**4** PROPOSED MEDIAN WALL- TYPICAL SECTION - SWALE  
 SCALE: 1/2" = 1'-0"

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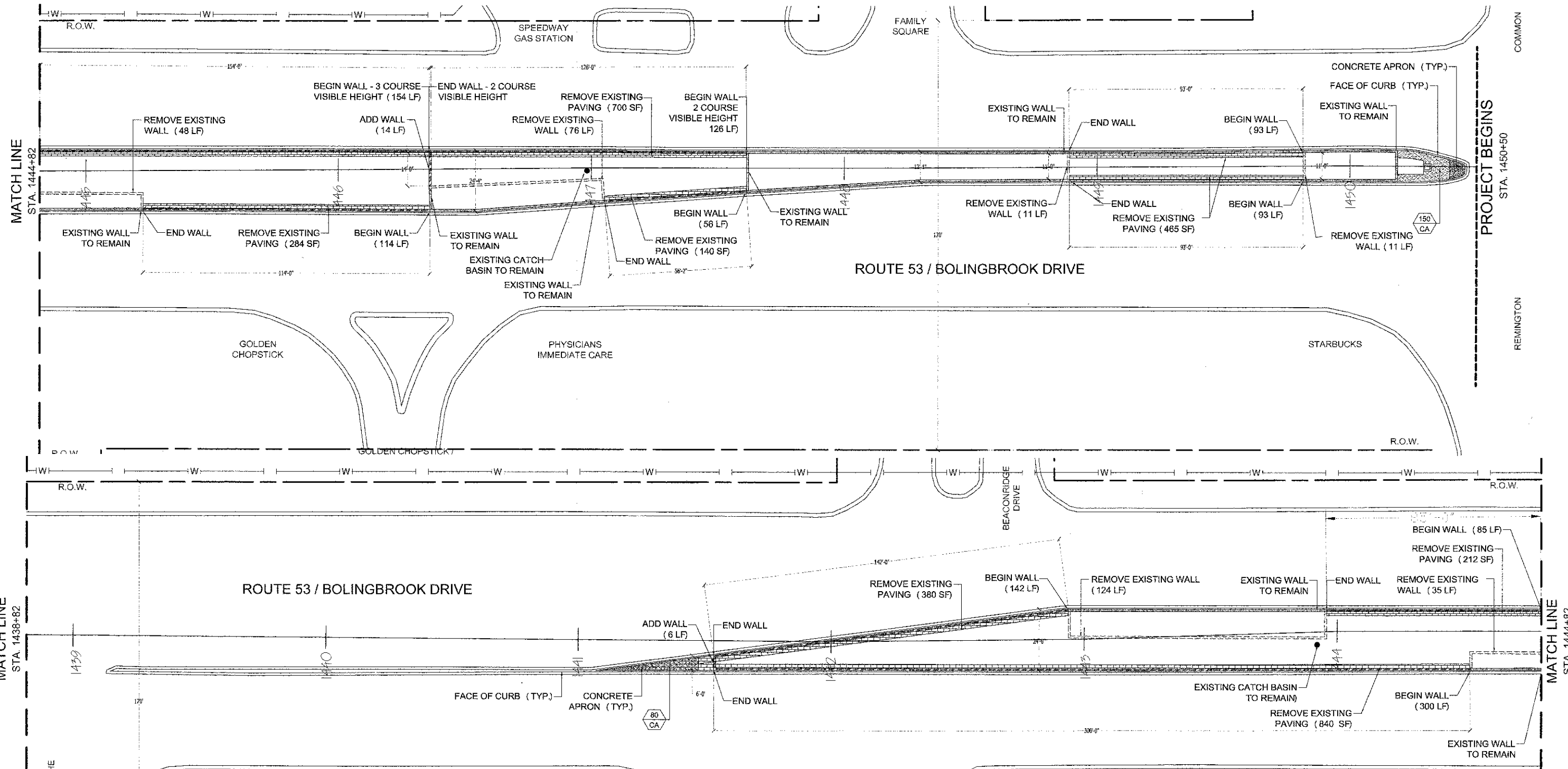
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING & PROPOSED SECTIONS

SCALE: NONE DRAWING NO. 3 OF 33 STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	QB-00049-00-LS	WILL	33	3
ILLINOIS		CONTRACT NO. 63714		



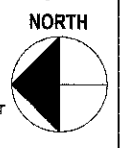
**HARDSCAPE AND DEMOLITION KEY**

	EXISTING WALL TO REMAIN
	EXISTING WALL TO BE REMOVED
	EXISTING DECORATIVE PAVING TO BE REMOVED
	EXISTING DECORATIVE PAVING TO BE PRESERVED
	PROPOSED WALL
	CA- PROPOSED CONCRETE APRON/APRON EXTENSION
	EXISTING CONCRETE APRON TO REMAIN

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY

**GENERAL NOTES**

- All basemap information provided by the Village of Bolingbrook dated 1/25/2011.
  - Contractor responsible to coordinate with the Engineer, Utility Owners and the Village of Bolingbrook Public Works and Engineering Departments on all utility locations and protective measures.
  - Contractor will coordinate and manage traffic control measures per IDOT standards throughout all stages of construction.
- NOTE: There is NO tree removal associated with this project. (TYP.)
- NOTE: Stationing increases from north to south. (TYP.)
- NOTE: There is no excavation associated with this project; hence, no erosion control. (TYP.)
- NOTE: This project crosses NO bridges or major culverts. (TYP.)



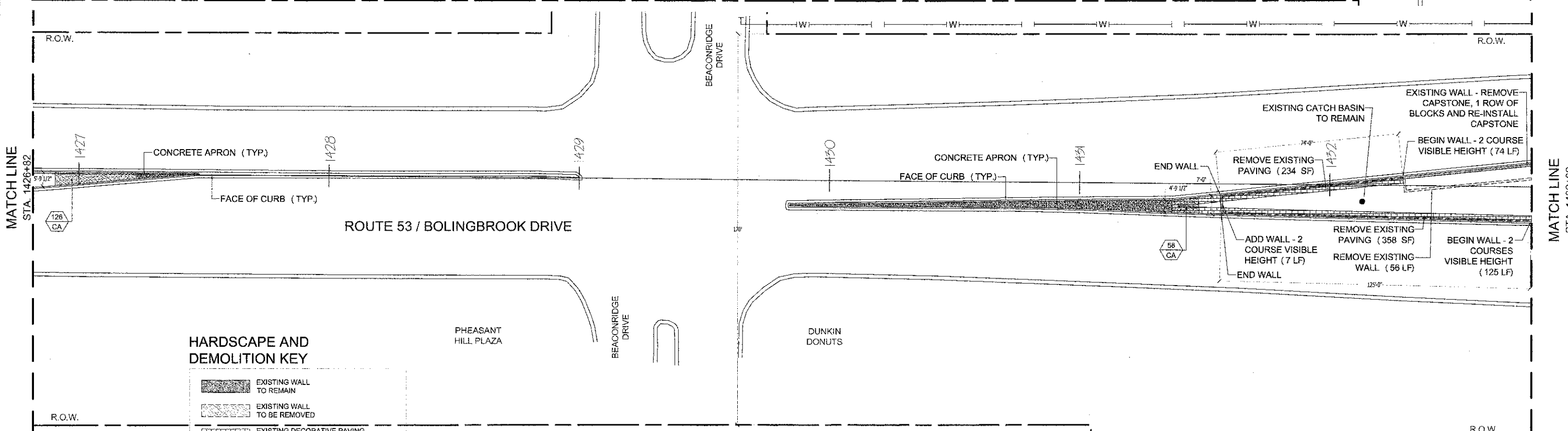
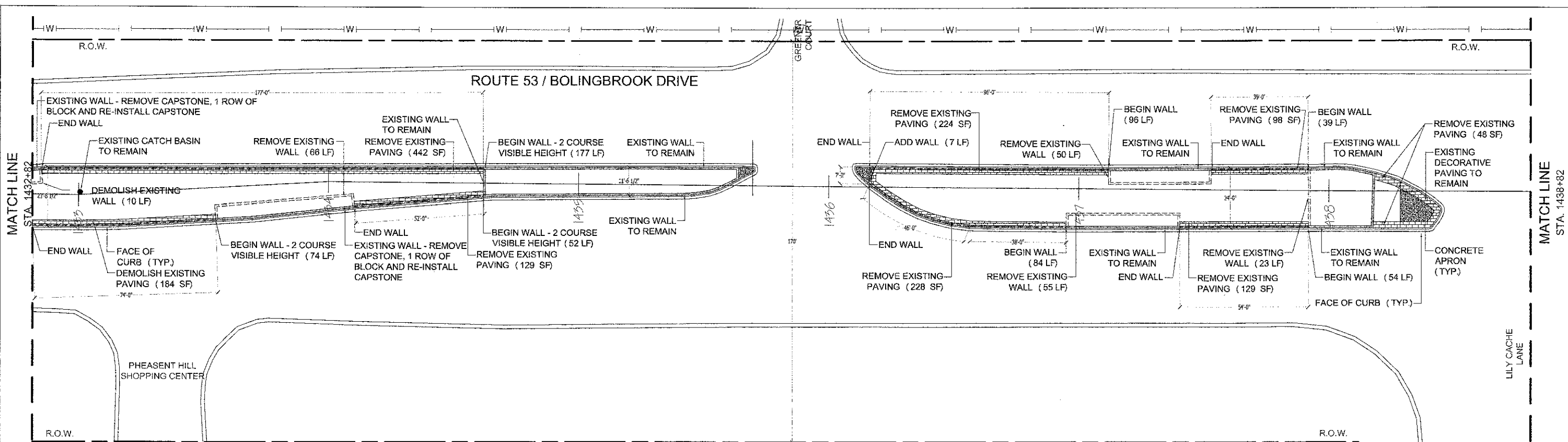
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN/HARDSCAPE PLAN  
SCALE: 1"=20' DRAWING NO. 3 OF 32 STA. 1450+50 TO STA. 1438+82

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ILLINOIS			CONTRACT NO. 63714	

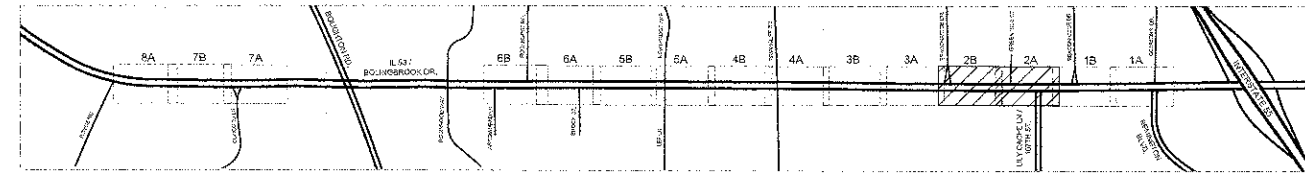
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**HARDSCAPE AND DEMOLITION KEY**

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	EXISTING DECORATIVE PAVING TO BE REMOVED
	EXISTING DECORATIVE PAVING TO BE PRESERVED
	PROPOSED WALL
	CA- PROPOSED CONCRETE APRON/APRON EXTENSION
	EXISTING CONCRETE APRON TO REMAIN

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN/HARDSCAPE PLAN

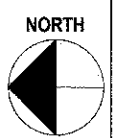
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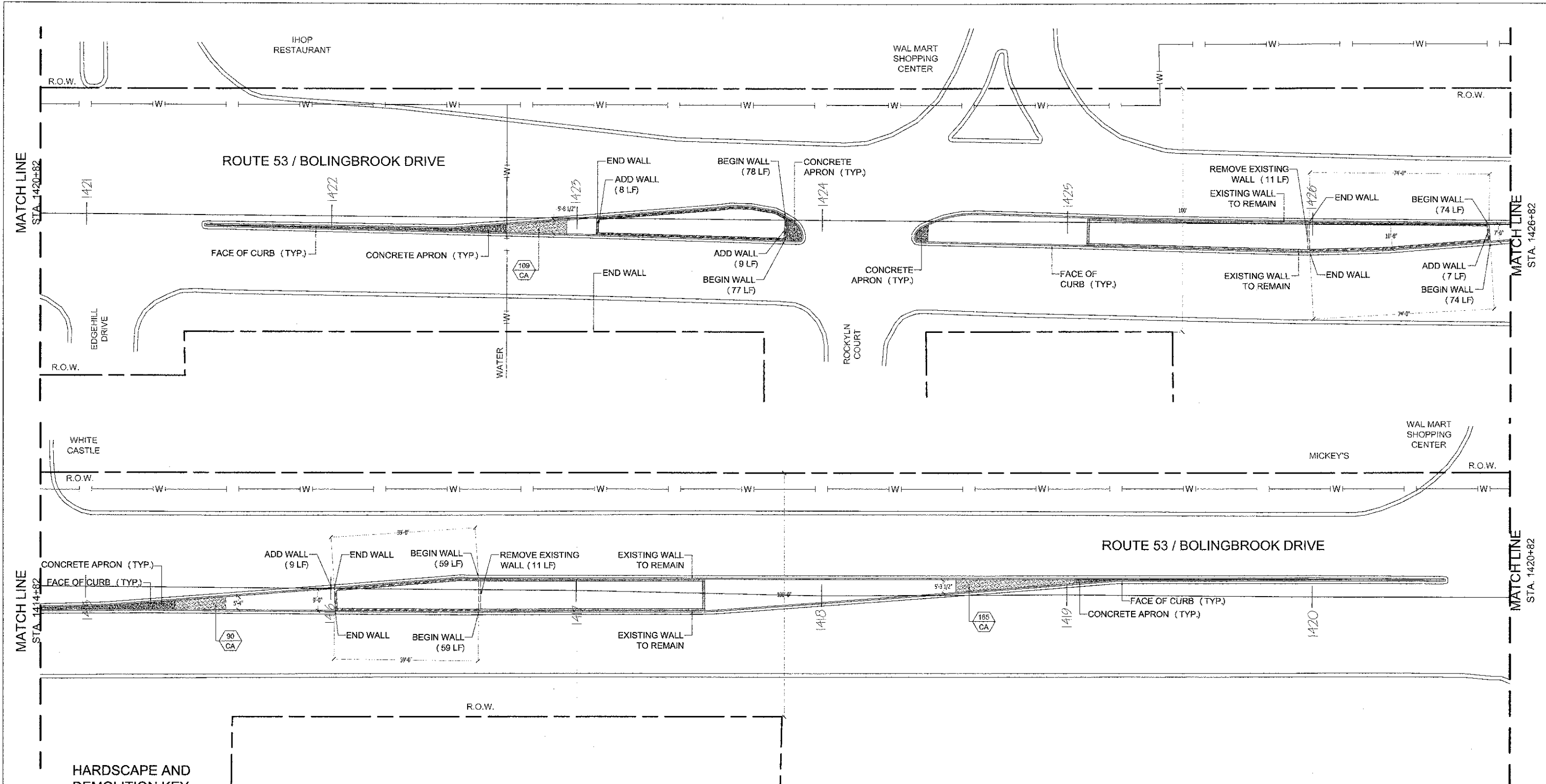
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ILLINOIS CONTRACT NO. 63714

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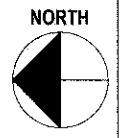
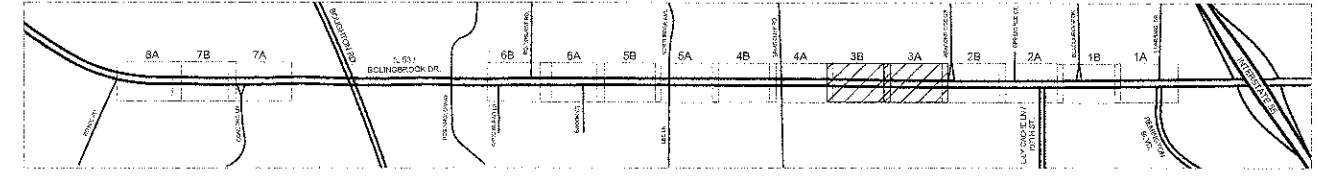




**HARDSCAPE AND DEMOLITION KEY**

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING DECORATIVE PAVING TO BE REMOVED
- EXISTING DECORATIVE PAVING TO BE PRESERVED
- PROPOSED WALL
- CA - PROPOSED CONCRETE APRON/APRON EXTENSION
- EXISTING CONCRETE APRON TO REMAIN

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



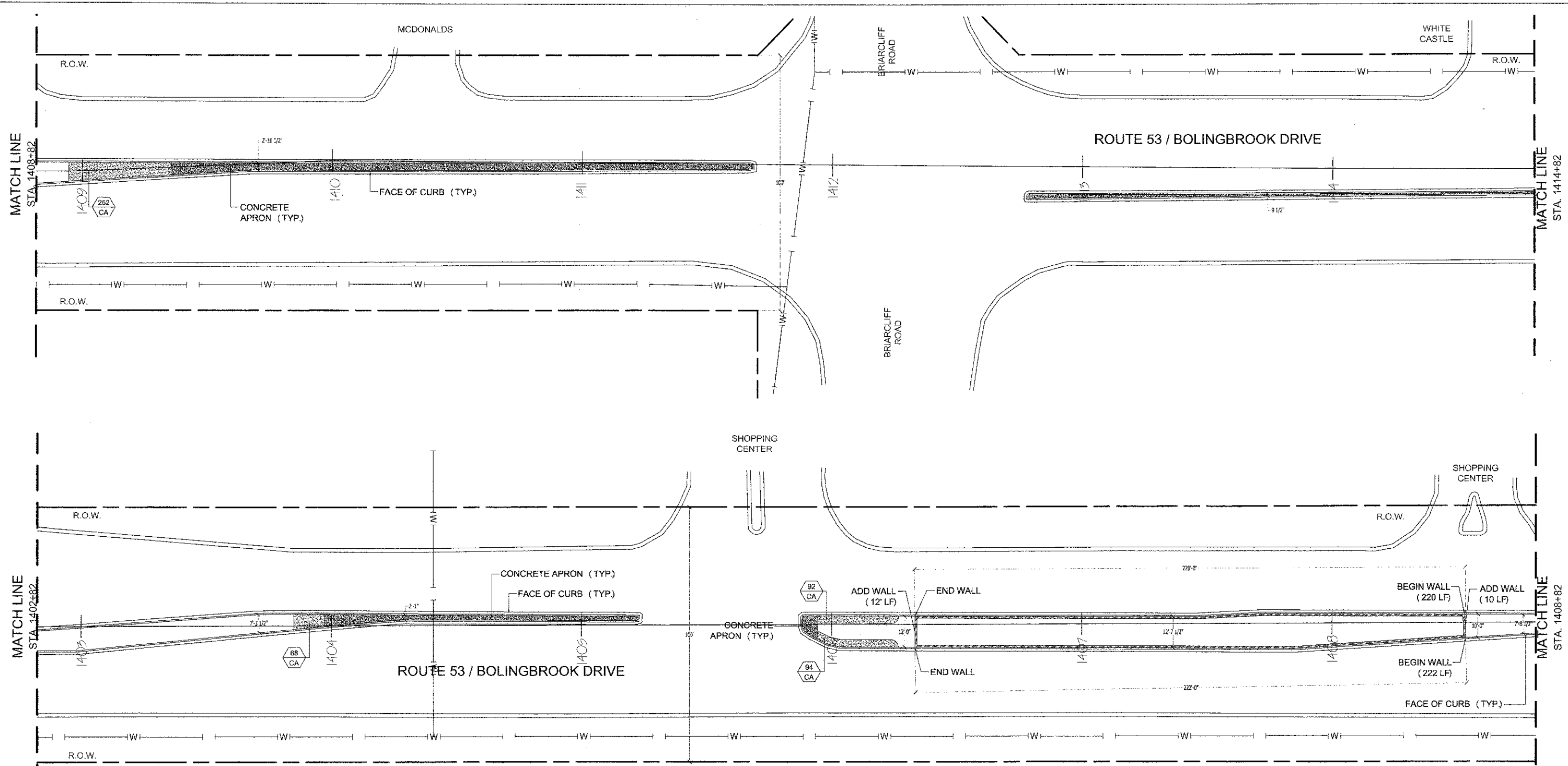
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN/HARDSCAPE PLAN  
SCALE: 1"=20' DRAWING NO. 6 OF 33 STA. 1426+82 TO STA. 1414+82

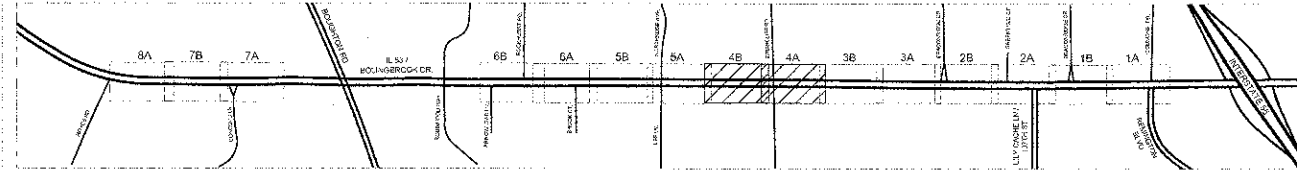
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0870	08-00049-00-LS	WILL	33	6
ILLINOIS			CONTRACT NO. 63714	



**HARDSCAPE AND DEMOLITION KEY**

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING DECORATIVE PAVING TO BE REMOVED
- EXISTING DECORATIVE PAVING TO BE PRESERVED
- PROPOSED WALL
- CA - PROPOSED CONCRETE APRON/APRON EXTENSION
- EXISTING CONCRETE APRON TO REMAIN

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



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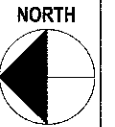
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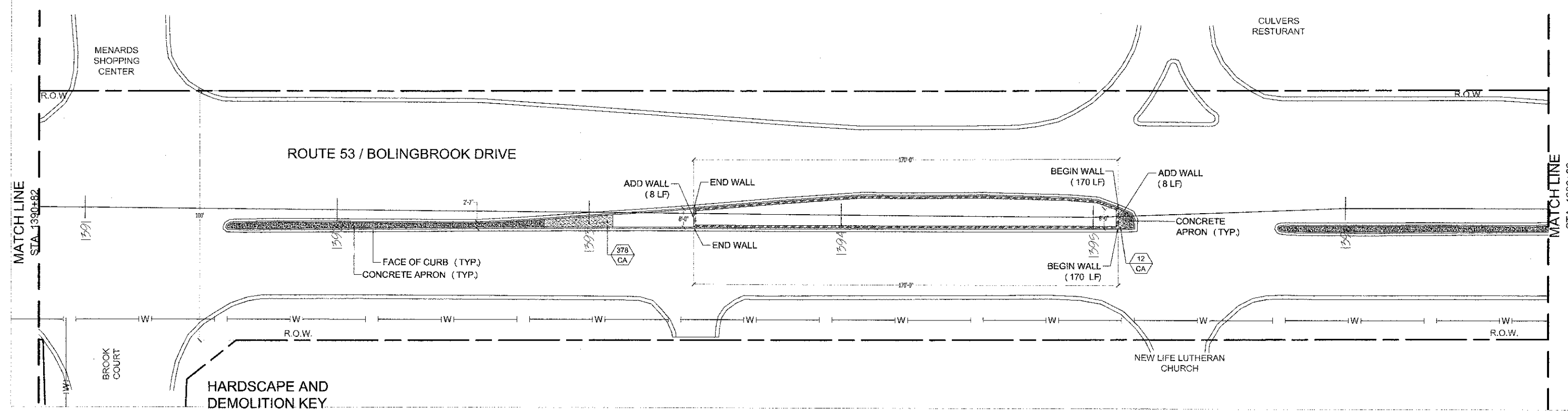
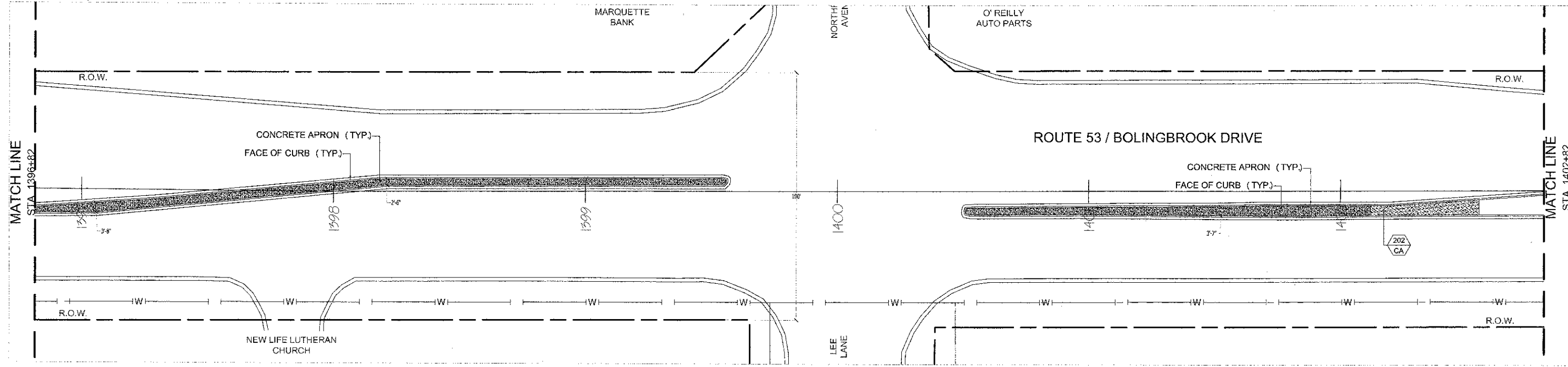
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN/HARDSCAPE PLAN  
SCALE: 1"=20' DRAWING NO. 7 OF 33 STA. 1414+82 TO STA. 1402+82

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	7

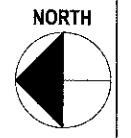
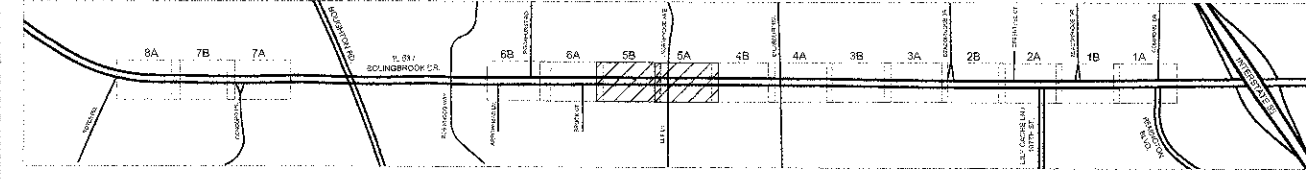
ILLINOIS CONTRACT NO. 63714





- HARDSCAPE AND DEMOLITION KEY**
- EXISTING WALL TO REMAIN
  - EXISTING WALL TO BE REMOVED
  - EXISTING DECORATIVE PAVING TO BE REMOVED
  - EXISTING DECORATIVE PAVING TO BE PRESERVED
  - PROPOSED WALL
  - CA- PROPOSED CONCRETE APRON/APRON EXTENSION
  - EXISTING CONCRETE APRON TO REMAIN

**SHEET KEY**  
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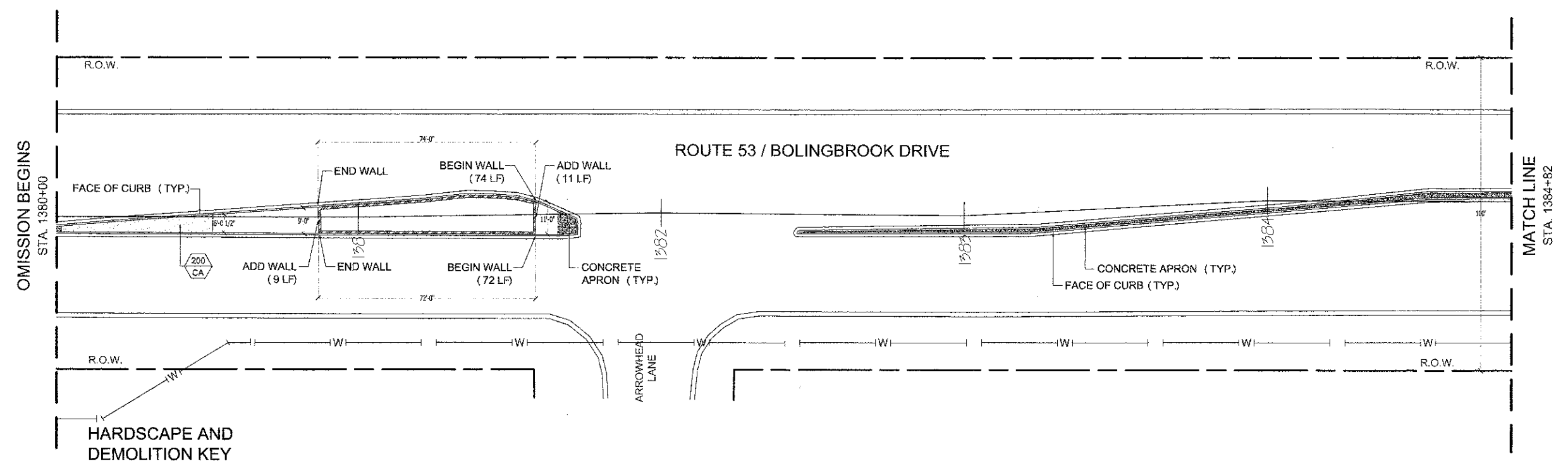
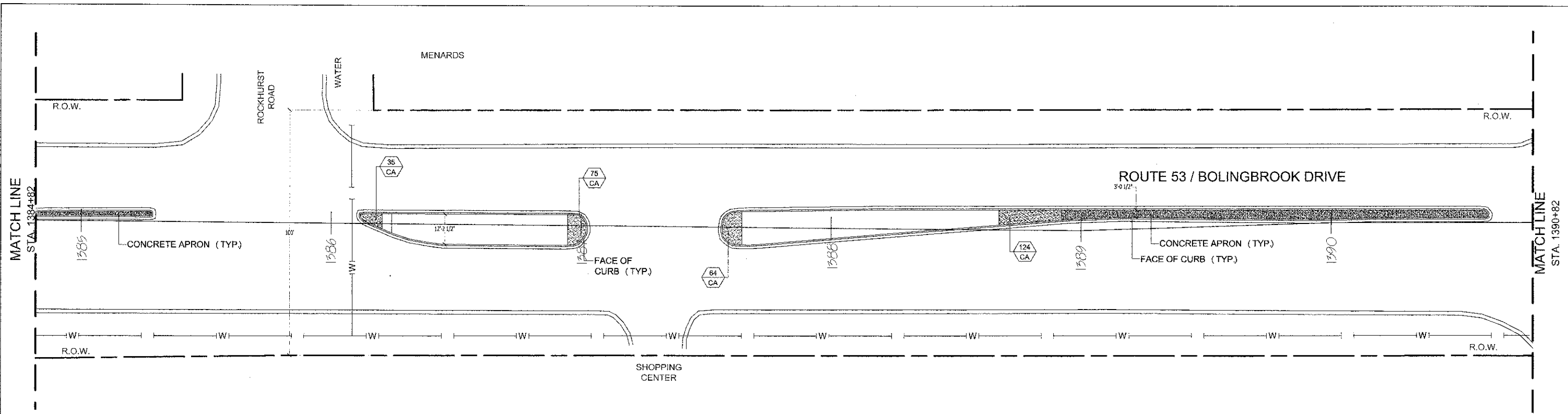
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN/HARDSCAPE PLAN  
SCALE: 1"=20' DRAWING NO. 8 OF 33 STA. 1402+82 TO STA. 1390+82

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	8
ILLINOIS			CONTRACT NO. 63714	

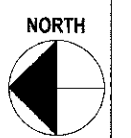
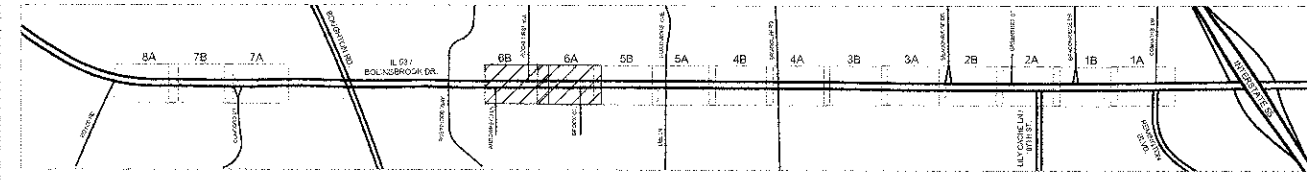




**HARDSCAPE AND DEMOLITION KEY**

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING DECORATIVE PAVING TO BE REMOVED
- EXISTING DECORATIVE PAVING TO BE PRESERVED
- PROPOSED WALL
- CA - PROPOSED CONCRETE APRON/APRON EXTENSION
- EXISTING CONCRETE APRON TO REMAIN

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



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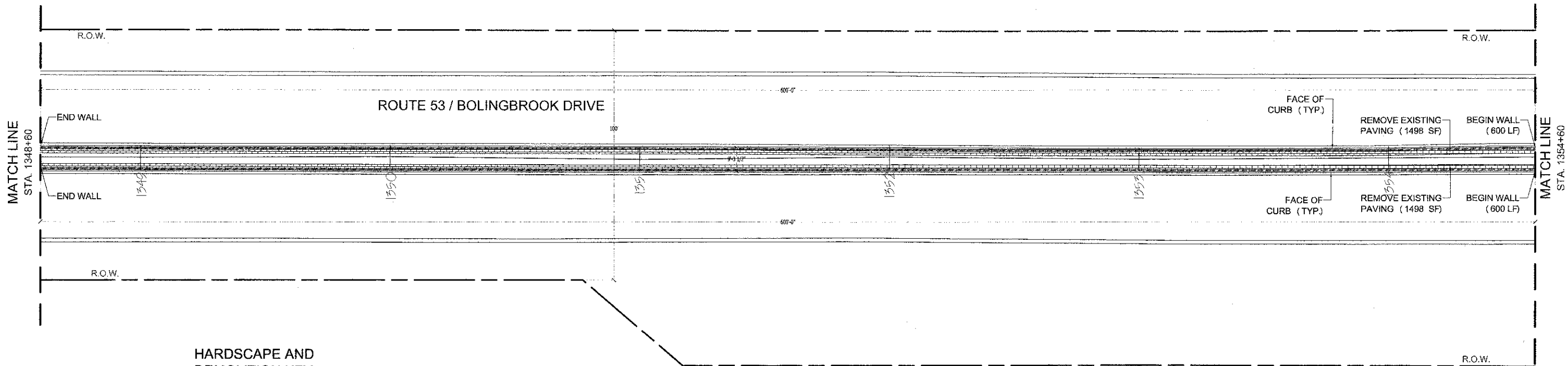
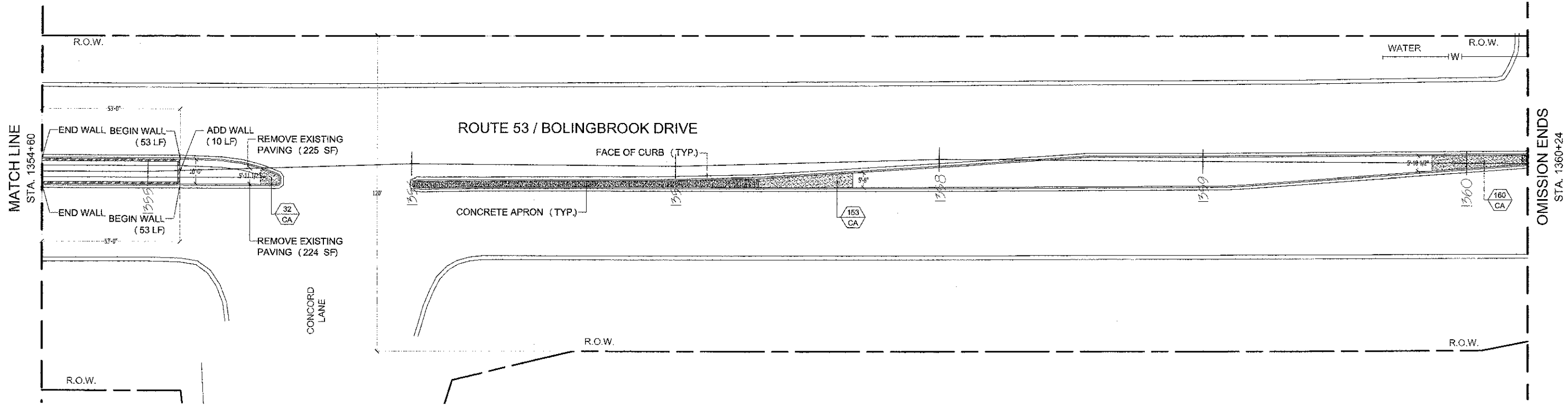
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN/HARDSCAPE PLAN

SCALE: 1"=20' DRAWING NO. 9 OF 33 STA. 1390+82 TO STA. 1380+00

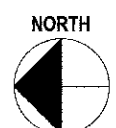
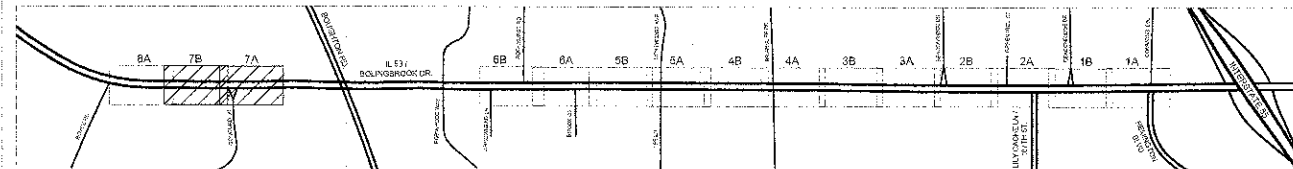
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	9
ILLINOIS			CONTRACT NO. 63714	



**HARDSCAPE AND DEMOLITION KEY**

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING DECORATIVE PAVING TO BE REMOVED
- EXISTING DECORATIVE PAVING TO BE PRESERVED
- PROPOSED WALL
- CA - PROPOSED CONCRETE APRON/APRON EXTENSION
- EXISTING CONCRETE APRON TO REMAIN

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



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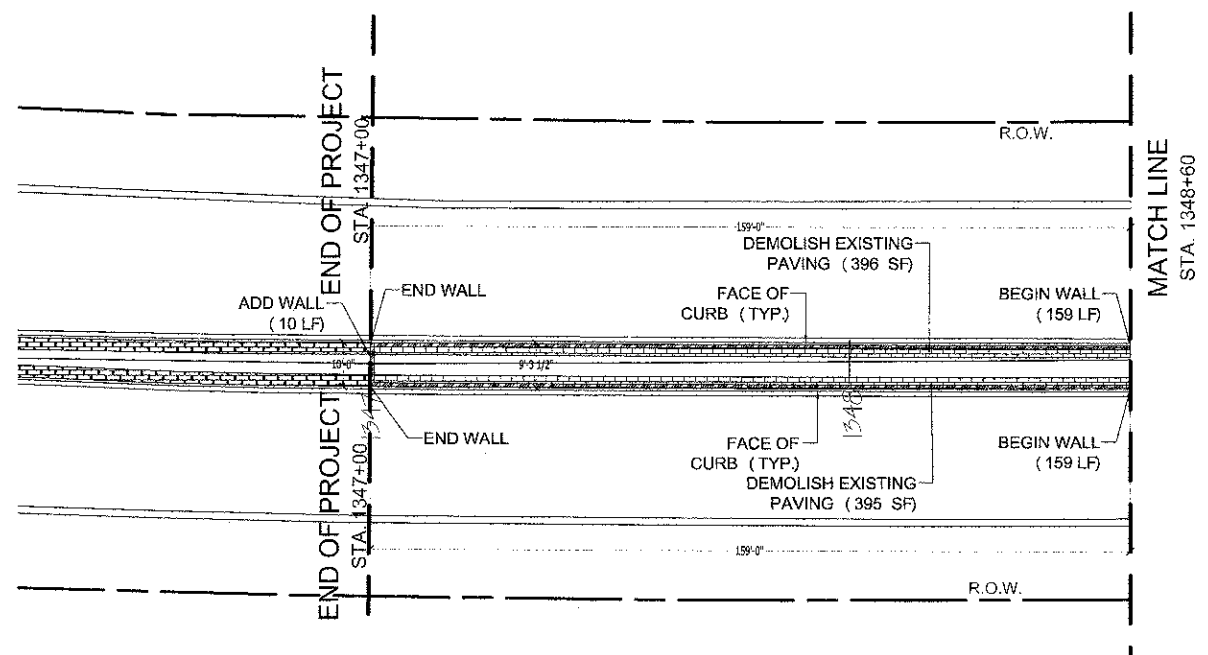
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN/HARDSCAPE PLAN

SCALE: 1"=20' DRAWING NO. 10 OF 33 STA. 1360+24 TO STA. 1348+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	10

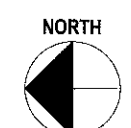
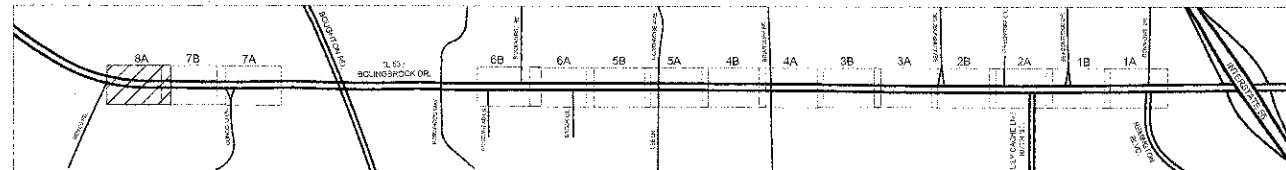
ILLINOIS CONTRACT NO. 63714



**HARDSCAPE AND DEMOLITION KEY**

	EXISTING WALL TO REMAIN
	EXISTING WALL TO BE REMOVED
	EXISTING DECORATIVE PAVING TO BE REMOVED
	EXISTING DECORATIVE PAVING TO BE PRESERVED
	PROPOSED WALL
	CA- PROPOSED CONCRETE APRON/APRON EXTENSION
	EXISTING CONCRETE APRON TO REMAIN

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



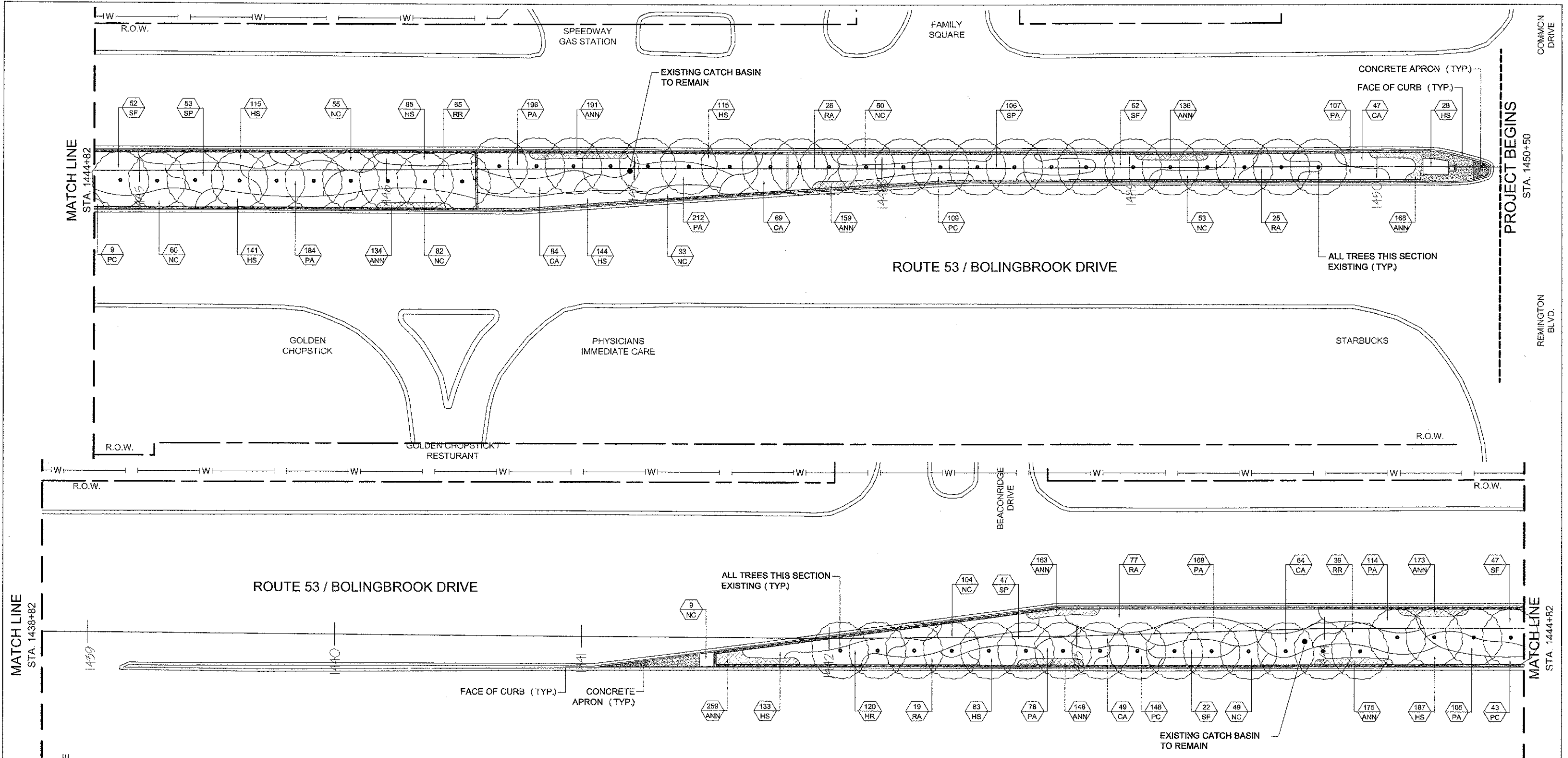
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	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN/HARDSCAPE PLAN  
SCALE: 1"=20' DRAWING NO. 11 OF 33 STA. 1348+60 TO STA. 1347+00

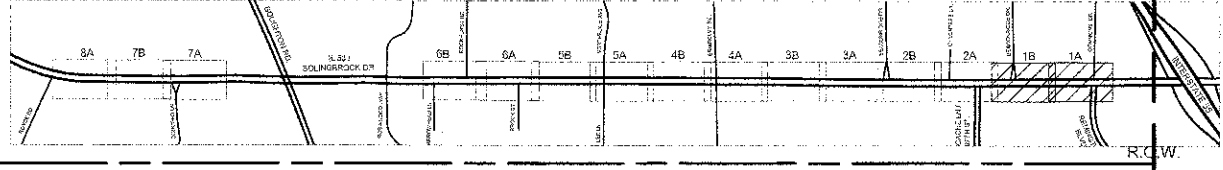
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	11
		ILLINOIS	CONTRACT NO. 63714	



**PLANT MATERIALS LIST**

Symbol	Quantity	Botanical Name	Common Name	Spacing
<b>CANOPY TREES</b>				
AF	0	Acer x freemanii	Autumn Blaze Maple	Per Plan
GT	0	Gleditsia tricanthos 'Skyline'	Skyline Honeylocust	Per Plan
<b>DECIDUOUS SHRUBS</b>				
RA	147	Rhus aromatica 'Grow-Low'	Grow Low Sumac	36" o.c.
RR	104	Rosa rugosa	Rugosa Rose	36" o.c.
SF	173	Spirea x b. 'Froebelii'	Froebel Spirea	36" o.c.
SAW	0	Spirea x b. 'Anthony Waterer'	Anthony Waterer Spirea	36" o.c.
SP	206	Syringa patula 'Miss Kim'	Miss Kim Lilac	30" o.c.
<b>ANNUALS, PERENNIALS &amp; ORNAMENTAL GRASSES</b>				
ANN	0	Annuaals	Annuaals	8" o.c.
CA	313	Calamagrostis x acutiflora 'Kan Forester'	Feather Reed Grass	24" o.c.
HR	120	Hemerocallis 'Rosy Returns'	Rosy Returns Daylily	18" o.c.
HS	1031	Hemerocallis 'Stella D'Oro'	Stella D'Oro Daylily	18" o.c.
NC	495	Nepeta x faassenii 'Walkers Low'	Walker's Low Catmint	24" o.c.
PAH	0	Pennisetum a. 'Harmelin'	Harmelin Fountain Grass	24" o.c.
PA	953	Perovskia atriplicifolia	Russian Sage	18" o.c.
PC	521	Polygonum cuspidatum	Fleece Flower	12" o.c.

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: There is NO tree removal associated with this project.  
NOTE: Stationing increases from north to south.  
NOTE: There is no excavation associated with this project; hence, no erosion control.  
NOTE: This project crosses NO bridges or major culverts.



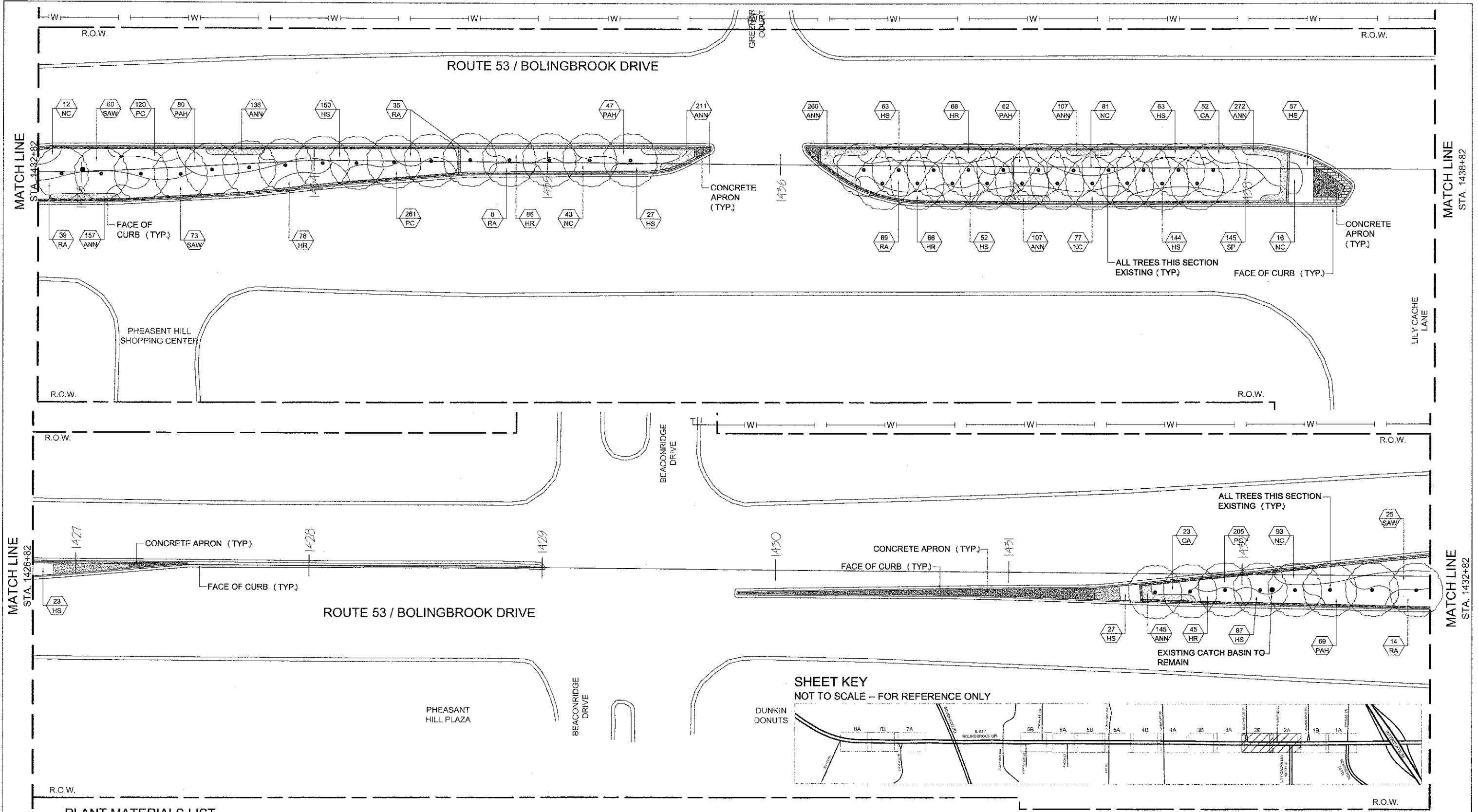
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	DATE — 06/29/11	REVISED — 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPE PLAN  
SCALE: 1"=20' DRAWING NO. 12 OF 33 STA. 1450+50 TO STA. 1438+82

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	12
ILLINOIS			CONTRACT NO. 63714	



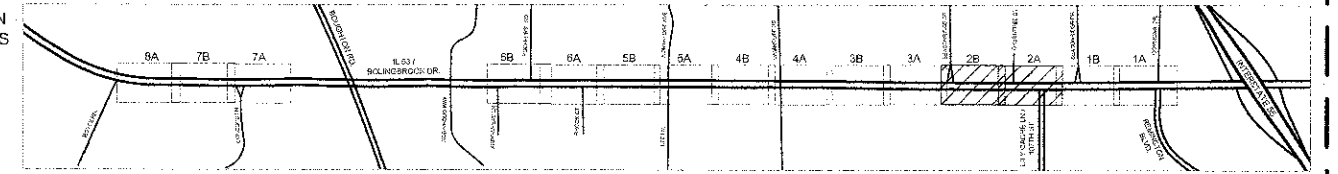
**PLANT MATERIALS LIST**

Symbol	Quantity	Botanical Name	Common Name	Spacing
<b>CANOPY TREES</b>				
AF	0	Acer x freemanii	Autumn Blaze Maple	Per Plan
GT	0	Gleditsia tricanthos 'Skyline'	Skyline Honeylocust	Per Plan
<b>DECIDUOUS SHRUBS</b>				
RA	185	Rhus aromatica 'Grow-Low'	Grow Low Sumac	36" o.c.
RR	0	Rosa rugosa	Rugosa Rose	36" o.c.
SF	0	Spiraea x b. 'Froebelii'	Froebel Spirea	36" o.c.
SAW	158	Spiraea x b. 'Anthony Waterer'	Anthony Waterer Spirea	36" o.c.
SP	145	Syringa patula 'Miss Kim'	Miss Kim Lilac	30" o.c.

**ANNUALS, PERENNIALS & ORNAMENTAL GRASSES**

Symbol	Quantity	Botanical Name	Common Name	Spacing
ANN	0	Annuals	Annuals	8" o.c.
CA	85	Calamagrostis x acutiflora 'Karl Forester'	Feather Reed Grass	24" o.c.
HR	341	Hemerocallis 'Rosy Returns'	Rosy Returns Daylily	18" o.c.
HS	693	Hemerocallis 'Stella D'Oro'	Stella D'Oro Daylily	18" o.c.
NC	322	Nepeta x jaassenii 'Walkers Low'	Walkers Low Catmint	24" o.c.
PAH	258	Pennisetum a. 'Hamel'	Hamel Fountain Grass	24" o.c.
PA	0	Perovskia atriplicifolia	Russian Sage	18" o.c.
PC	586	Polygonum cuspidatum	Fleece Flower	12" o.c.

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: There is NO tree removal associated with this project.

NOTE: There is no excavation associated with this project; hence, no erosion control.

NOTE: Stationing increases from north to south.

NOTE: This project crosses NO bridges or major culverts.



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPE PLAN

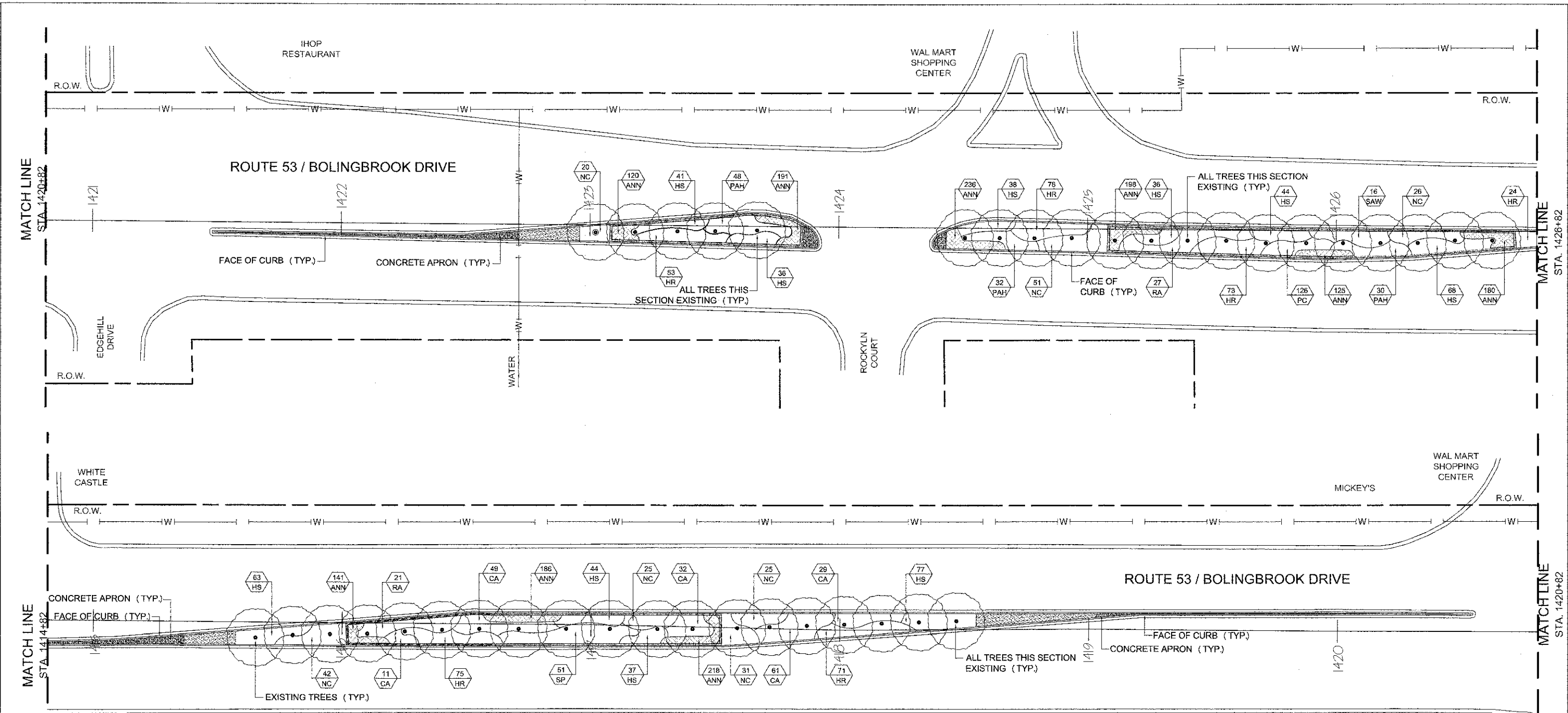
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	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

SCALE: 1"=20' DRAWING NO. 13 OF 33 STA. 1438+82 TO STA. 1426+82

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	13

ILLINOIS CONTRACT NO. 63714

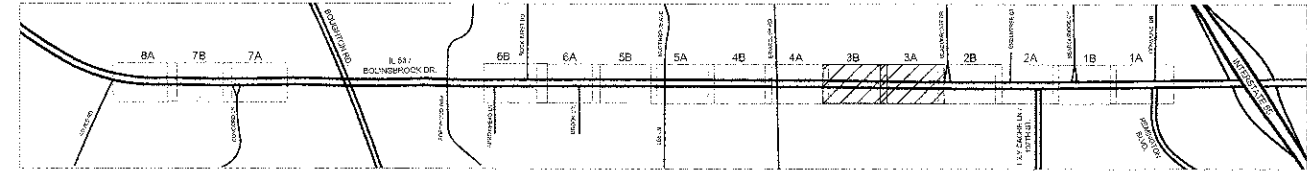
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**PLANT MATERIALS LIST**

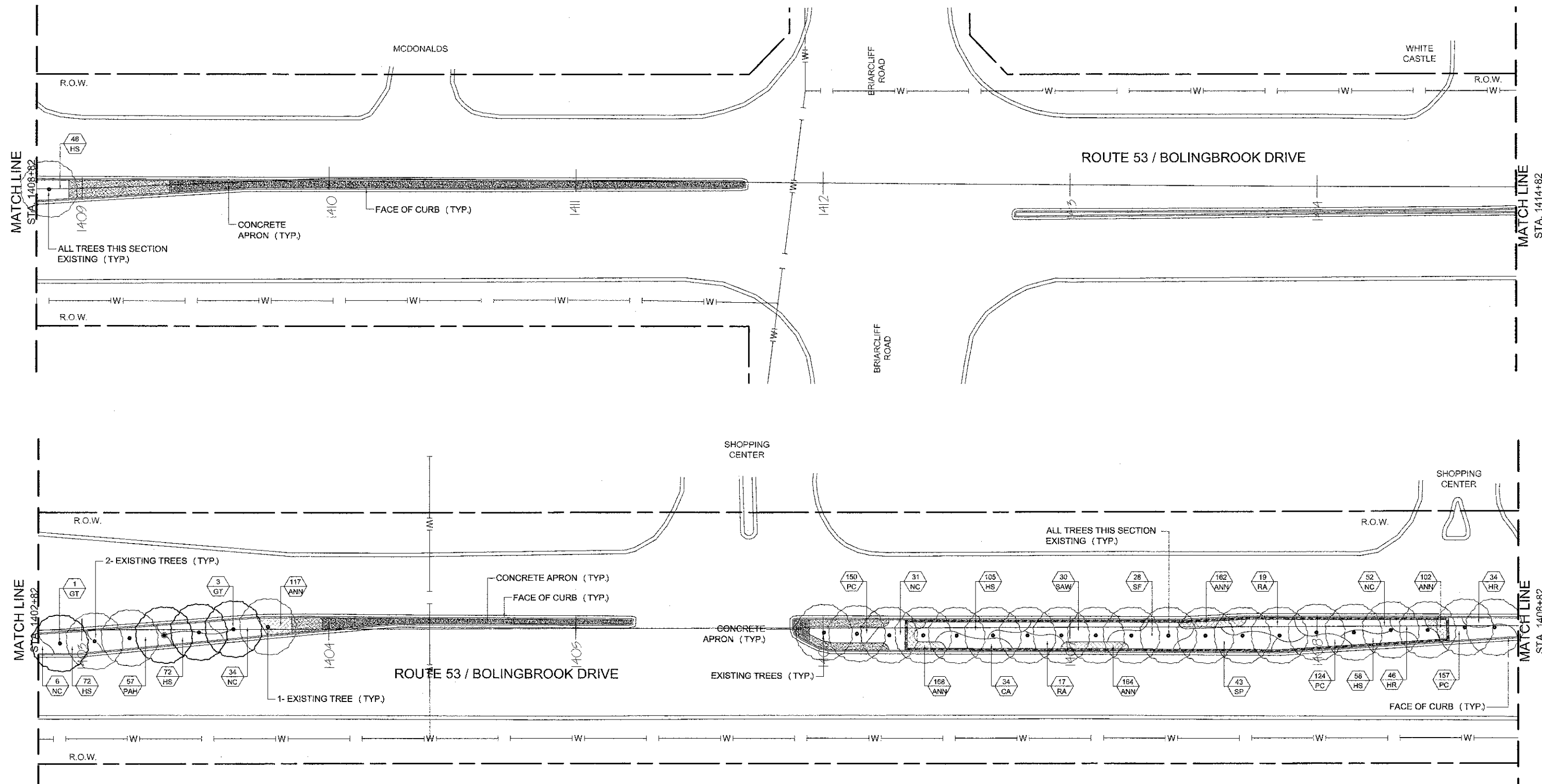
Symbol	Quantity	Botanical Name	Common Name	Spacing
<b>CANOPY TREES</b>				
AF	0	Acer x freemanii	Autumn Blaze Maple	Per Plan
GT	0	Gleditsia tricanthos 'Skyline'	Skyline Honeylocust	Per Plan
<b>DECIDUOUS SHRUBS</b>				
RA	48	Rhus aromatica 'Grow-Low'	Grow Low Sumac	36" o.c.
RR	0	Rosa rugosa	Rugosa Rose	36" o.c.
SF	0	Spirea x b. 'Froebelii'	Froebel Spirea	36" o.c.
SAW	16	Spirea x b. 'Anthony Waterer'	Anthony Waterer Spirea	36" o.c.
SP	51	Syringa patula 'Miss Kim'	Miss Kim Lilac	30" o.c.
<b>ANNUALS, PERENNIALS &amp; ORNAMENTAL GRASSES</b>				
ANN	0	Annuals	Annuals	8" o.c.
CA	182	Calamagrostis x acutiflora 'Karl Forester'	Feather Reed Grass	24" o.c.
HR	374	Hemerocallis 'Rosy Returns'	Rosy Returns Daylily	18" o.c.
HS	484	Hemerocallis 'Stella D'Oro'	Stella D'Oro Daylily	18" o.c.
NC	220	Nepeta x feassonii 'Walkers Low'	Walker's Low Catmint	24" o.c.
PAH	110	Pennisetum a. 'Hameln'	Hameln Fountain Grass	24" o.c.
PA	0	Perovskia atriplicifolia	Russian Sage	18" o.c.
PC	126	Polygonum cuspidatum	Fleece Flower	12" o.c.

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



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NOTE: There is no excavation associated with this project; hence, no erosion control.  
NOTE: Stationing increases from north to south.  
NOTE: This project crosses NO bridges or major culverts.





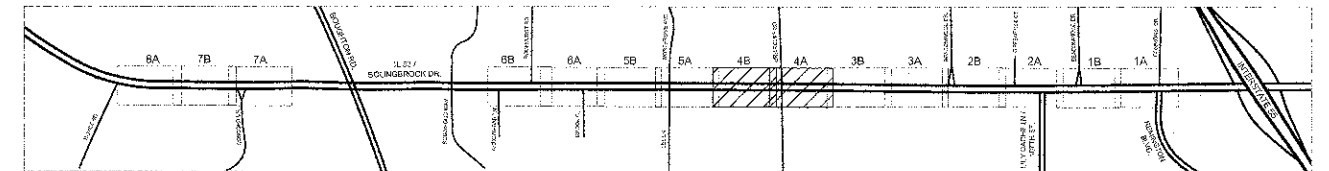
**PLANT MATERIALS LIST**

Symbol	Quantity	Botanical Name	Common Name	Spacing
<b>CANOPY TREES</b>				
AF	0	Acer x freemanii	Autumn Blaze Maple	Per Plan
GT	4	Gleditsia tricanthos 'Skyline'	Skyline Honeylocust	Per Plan
<b>DECIDUOUS SHRUBS</b>				
RA	36	Rhus aromatica 'Grow-Low'	Grow Low Sumac	36" o.c.
RR	0	Rosa rugosa	Rugosa Rose	36" o.c.
SF	28	Spiraea x b. 'Froebelii'	Froebel Spiraea	36" o.c.
SAW	30	Spiraea x b. 'Anthony Waterer'	Anthony Waterer Spiraea	36" o.c.
SP	43	Syringa patula 'Miss Kim'	Miss Kim Lilac	30" o.c.

**ANNUALS, PERENNIALS & ORNAMENTAL GRASSES**

Symbol	Quantity	Botanical Name	Common Name	Spacing
ANN	0	Annuals	Annuals	8" o.c.
CA	34	Calamagrostis x acutiflora 'Karl Forester'	Feather Reed Grass	24" o.c.
HR	82	Hemerocallis 'Rosy Returns'	Rosy Returns Daylily	18" o.c.
HS	353	Hemerocallis 'Stella D'Oro'	Stella D'Oro Daylily	18" o.c.
NC	123	Nepeta x faassenii 'Walkers Low'	Walker's Low Catmint	24" o.c.
PAH	57	Pennisetum a. 'Hameln'	Hameln Fountain Grass	24" o.c.
PA	0	Perovskia atriplicifolia	Russian Sage	18" o.c.
PC	431	Polygonum cuspidatum	Fleece Flower	12" o.c.

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



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NOTE: There is no excavation associated with this project; hence, no erosion control.

NOTE: Stationing increases from north to south.

NOTE: This project crosses NO bridges or major culverts.



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

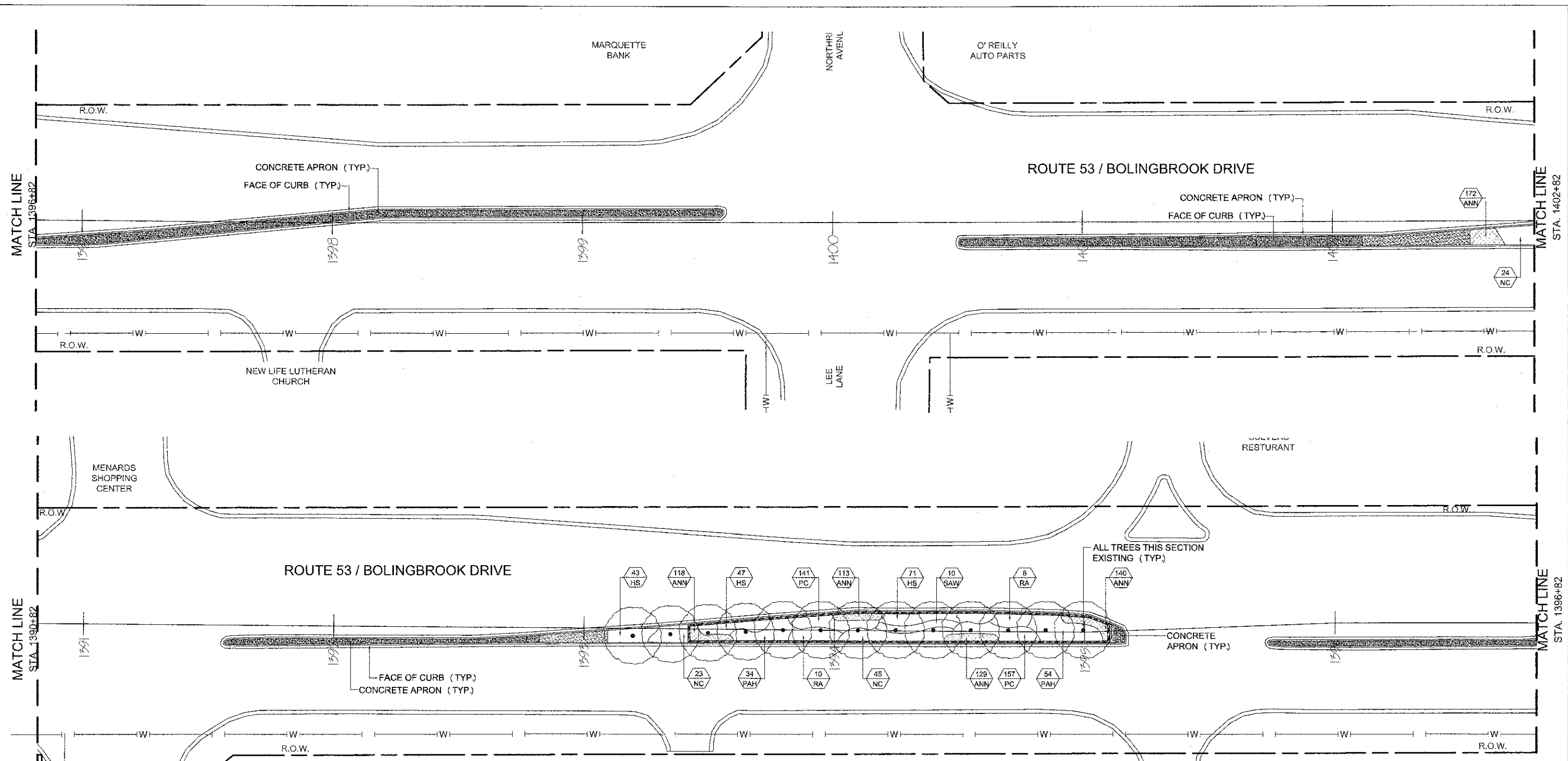
LANDSCAPE PLAN

SCALE: 1"=20' DRAWING NO. 15 OF 33 STA. 1414+82 TO STA. 1402+82

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	15

ILLINOIS CONTRACT NO. 63714

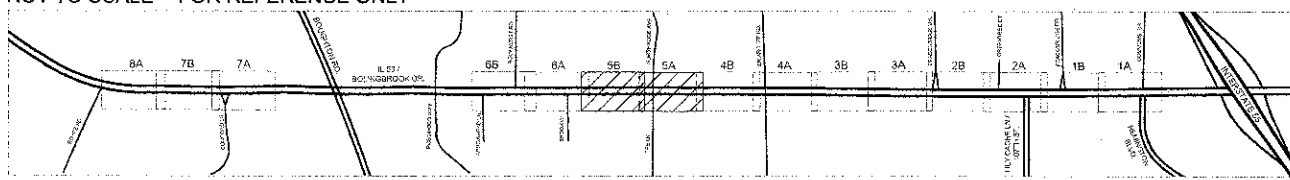
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**PLANT MATERIALS LIST**

Symbol	Quantity	Botanical Name	Common Name	Spacing
<b>CANOPY TREES</b>				
AF	0	Acer x freemanii	Autumn Blaze Maple	Per Plan
GT	0	Gleditsia tricanthos 'Skyline'	Skyline Honeylocust	Per Plan
<b>DECIDUOUS SHRUBS</b>				
RA	18	Rhus aromatica 'Grow-Low'	Grow Low Sumac	36" o.c.
RR	0	Rosa rugosa	Rugosa Rose	36" o.c.
SF	0	Spiraea x b. 'Froebellii'	Froebel Spiraea	36" o.c.
SAW	10	Spiraea x b. 'Anthony Waterer'	Anthony Waterer Spiraea	36" o.c.
SP	0	Syringa patula 'Miss Kim'	Miss Kim Lilac	30" o.c.
<b>ANNUALS, PERENNIALS &amp; ORNAMENTAL GRASSES</b>				
ANN	0	Annuals	Annuals	8" o.c.
CA	0	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	24" o.c.
HR	0	Hemerocallis 'Rosy Returns'	Rosy Returns Daylily	18" o.c.
HS	161	Hemerocallis 'Stella D'Oro'	Stella D'Oro Daylily	18" o.c.
NC	92	Nepeta x faassenii 'Walkers Low'	Walker's Low Catmint	24" o.c.
PAH	88	Pennisetum a. 'Hameln'	Hameln Fountain Grass	24" o.c.
PA	0	Perovskia atriplicifolia	Russian Sage	18" o.c.
PC	198	Polygonum cuspidatum	Fleece Flower	12" o.c.

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: There is NO tree removal associated with this project.

NOTE: Stationing increases from north to south.

NOTE: There is no excavation associated with this project; hence, no erosion control.

NOTE: This project crosses NO bridges or major culverts.



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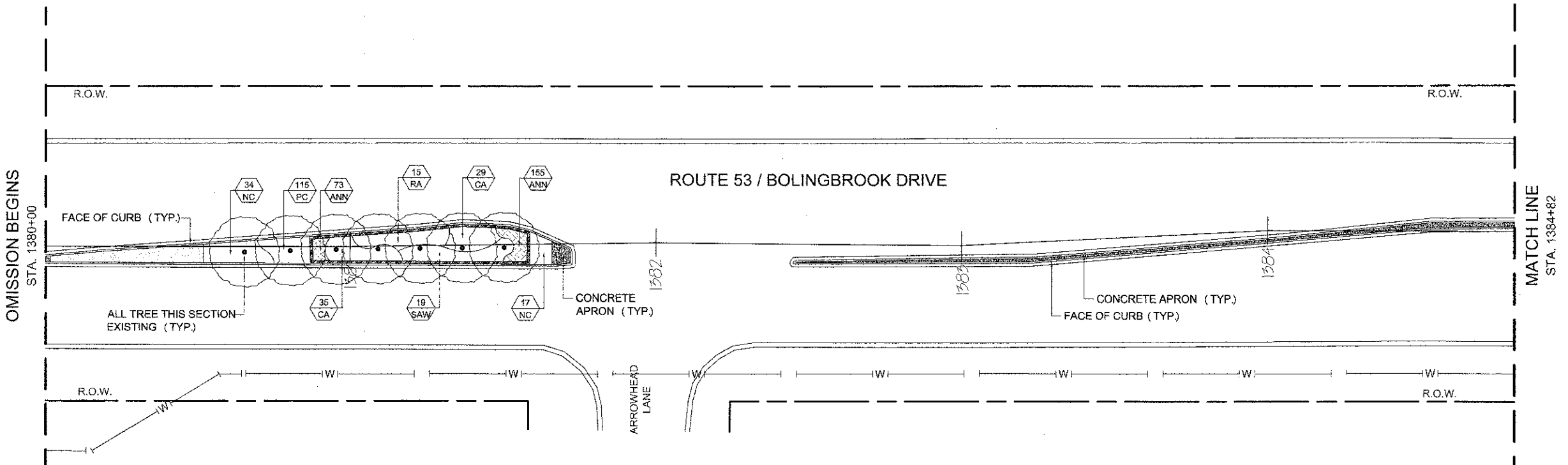
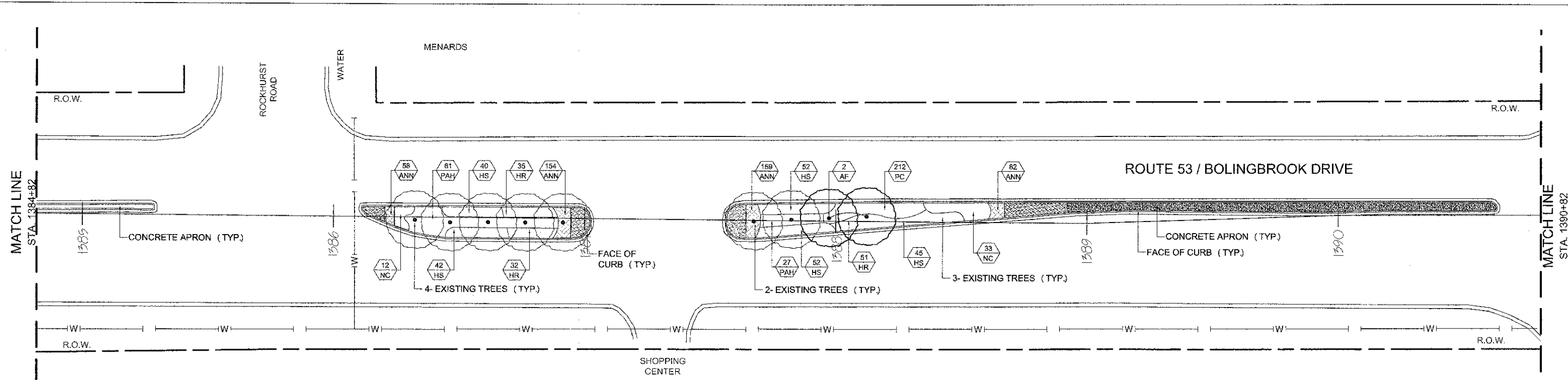
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPE PLAN

SCALE: 1"=20' DRAWING NO. 16 OF 33 STA. 1402+82 TO STA. 1390+82

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WLL	33	16
ILLINOIS			CONTRACT NO. 63714	

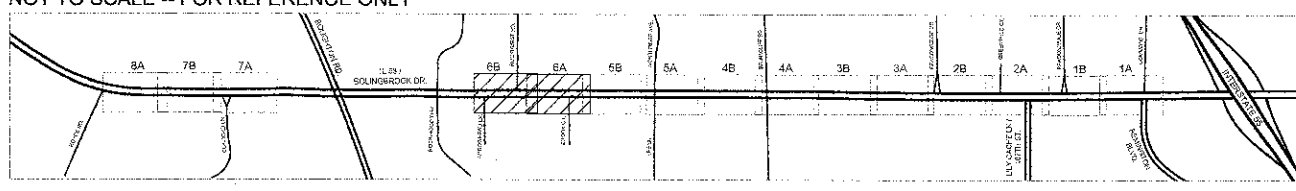




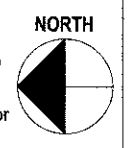
**PLANT MATERIALS LIST**

Symbol	Quantity	Botanical Name	Common Name	Spacing
<b>CANOPY TREES</b>				
AF	2	Acer x freemanii	Autumn Blaze Maple	Per Plan
GT	0	Gleditsia tricanthos 'Skyline'	Skyline Honeylocust	Per Plan
<b>DECIDUOUS SHRUBS</b>				
RA	15	Rhus aromatica 'Grow-Low'	Grow Low Sumac	36" o.c.
RR	0	Rosa rugosa	Rugosa Rose	36" o.c.
SP	0	Spirea x b. 'Froebelii'	Froebel Spirea	36" o.c.
SAW	19	Spirea x b. 'Anthony Waterer'	Anthony Waterer Spirea	36" o.c.
SP	0	Syringa patula 'Miss Kim'	Miss Kim Lilac	30" o.c.
<b>ANNUALS, PERENNIALS &amp; ORNAMENTAL GRASSES</b>				
ANN	0	Annuals	Annuals	8" o.c.
CA	54	Calamagrostis x acutiflora 'Kari Forester'	Feather Reed Grass	24" o.c.
HR	118	Hemerocallis 'Rosy Returns'	Rosy Returns Daylily	18" o.c.
HS	231	Hemerocallis 'Stella D'Oro'	Stella D'Oro Daylily	18" o.c.
NC	96	Nepeta x faassenii 'Walkers Low'	Walker's Low Catmint	24" o.c.
PAH	108	Pennisetum a. 'Hamelin'	Hamelin Fountain Grass	24" o.c.
PA	0	Perovskia atriplicifolia	Russian Sage	18" o.c.
PC	327	Polygonum cuspidatum	Fleece Flower	12" o.c.

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



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NOTE: Stationing increases from north to south.  
NOTE: There is no excavation associated with this project; hence, no erosion control.  
NOTE: This project crosses NO bridges or major culverts.



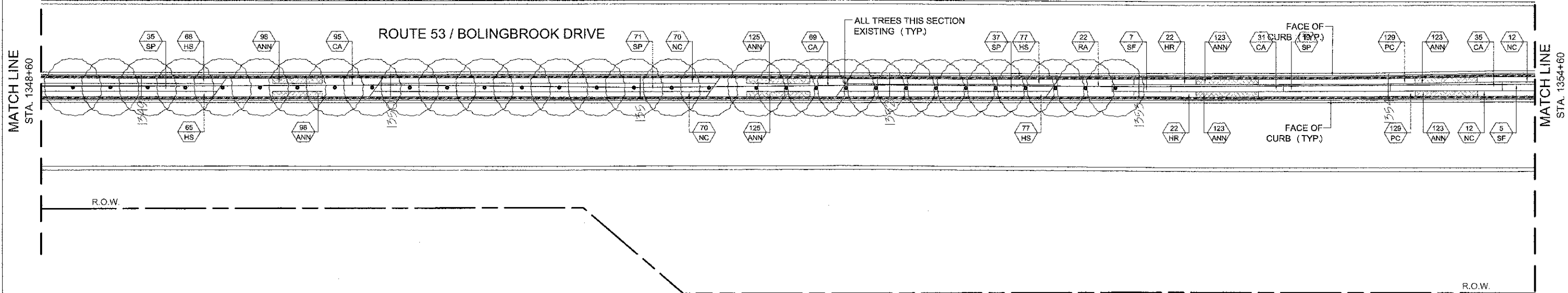
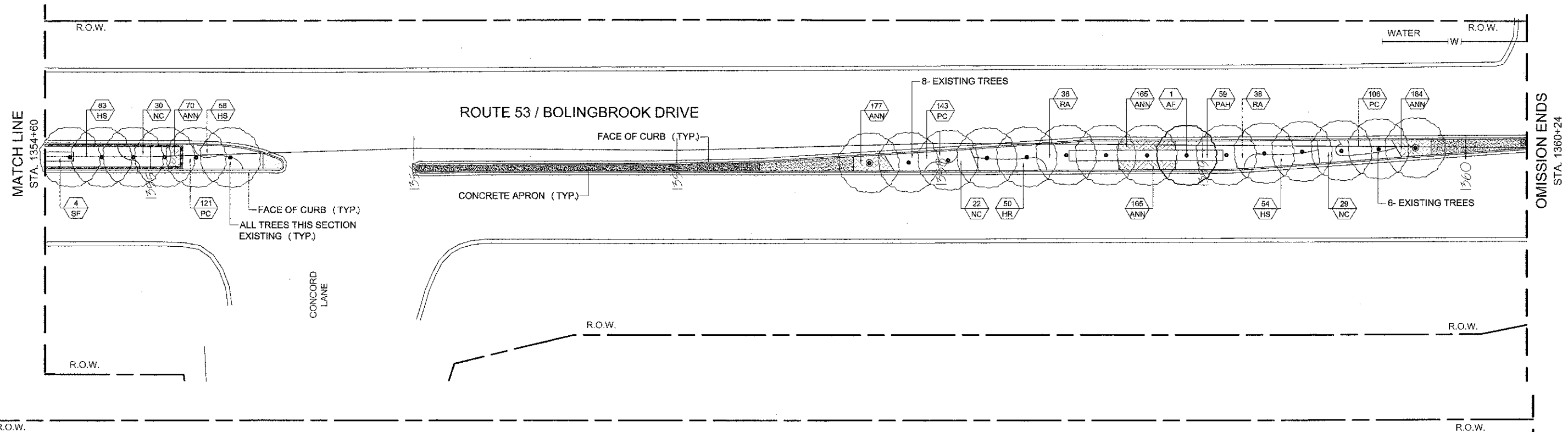
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPE PLAN

SCALE: 1"=20'	DRAWING NO. 17 OF 33	STA. 1390+82 TO STA. 1380+00	F.A.P. RTE. 0870	SECTION 08-00049-00-LS	COUNTY WLL	TOTAL SHEETS 33	SHEET NO. 17
							ILLINOIS CONTRACT NO. 63714



**PLANT MATERIALS LIST**

Symbol	Quantity	Botanical Name	Common Name	Spacing
<b>CANOPY TREES</b>				
AF	1	<i>Acer x freemanii</i>	Autumn Blaze Maple	Per Plan
GT	0	<i>Gleditsia triacanthos</i> 'Skyline'	Skyline Honeylocust	Per Plan
<b>DECIDUOUS SHRUBS</b>				
RA	98	<i>Rhus aromatica</i> 'Grow-Low'	Grow Low Sumac	36" o.c.
RR	0	<i>Rosa rugosa</i>	Rugosa Rose	36" o.c.
SF	16	<i>Spiraea x b.</i> 'Froebelii'	Froebel Spirea	36" o.c.
SAW	0	<i>Spiraea x b.</i> 'Anthony Waterer'	Anthony Waterer Spirea	36" o.c.
SP	162	<i>Syringa patula</i> 'Miss Kim'	Miss Kim Lilac	30" o.c.
<b>ANNUALS, PERENNIALS &amp; ORNAMENTAL GRASSES</b>				
ANN	0	Annuals	Annuals	8" o.c.
CA	135	<i>Calamagrostis x acutiflora</i> 'Karl Forester'	Feather Reed Grass	24" o.c.
HR	94	<i>Hemerocallis</i> 'Rosy Returns'	Rosy Returns Daylily	18" o.c.
HS	482	<i>Hemerocallis</i> 'Stella D'Oro'	Stella D'Oro Daylily	18" o.c.
NC	245	<i>Nepeta x faassenii</i> 'Walkers Low'	Walker's Low Catmint	24" o.c.
PAH	59	<i>Pennisetum a.</i> 'Hameln'	Hameln Fountain Grass	24" o.c.
PA	0	<i>Perovskia atriplicifolia</i>	Russian Sage	18" o.c.
PC	628	<i>Polygonum cuspidatum</i>	Fleece Flower	12" o.c.

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: There is NO tree removal associated with this project.

NOTE: There is no excavation associated with this project; hence, no erosion control.

NOTE: Stationing increases from north to south.

NOTE: This project crosses NO bridges or major culverts.



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PLOT SCALE = 1"=20'	CHECKED -- WALSH	REVISED -- 05/14/12 PER IDOT
PLOT DATE = \$DATE\$	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

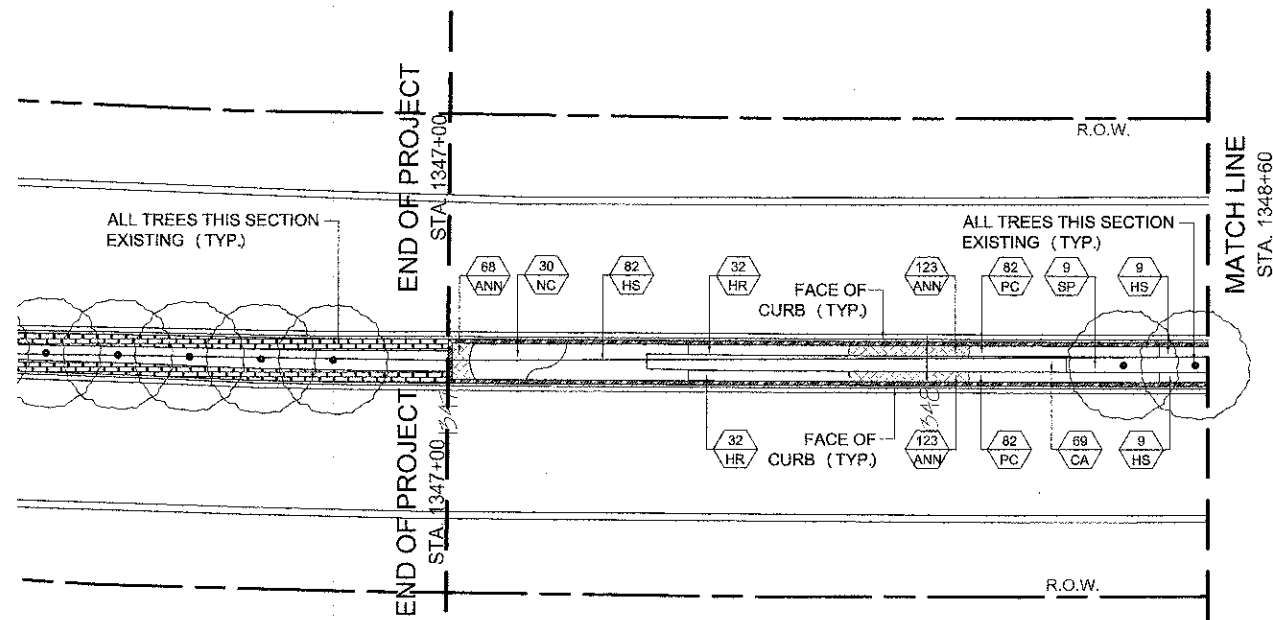
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPE PLAN

SCALE: 1"=20' DRAWING NO. 18 OF 33 STA. 1360+24 TO STA. 1348+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	18

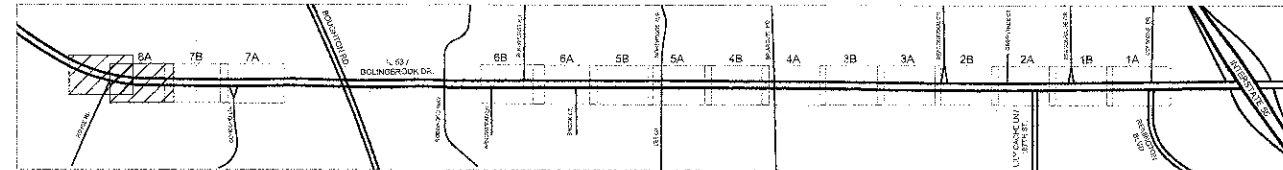
ILLINOIS CONTRACT NO. 63714



**PLANT MATERIALS LIST**

Symbol	Quantity	Botanical Name	Common Name	Spacing
<b>CANOPY TREES</b>				
AF	0	Acer x freemanii	Autumn Blaze Maple	Per Plan
GT	0	Gleditsia tricanthos 'Skyline'	Skyline Honeylocust	Per Plan
<b>DECIDUOUS SHRUBS</b>				
RA	0	Rhus aromatica 'Grow-Low'	Grow Low Sumac	36" o.c.
RR	0	Rosa rugosa	Rugosa Rose	36" o.c.
SF	0	Spirea x b. 'Froebelii'	Froebel Spirea	36" o.c.
SAW	0	Spirea x b. 'Anthony Waterer'	Anthony Waterer Spirea	36" o.c.
SP	9	Syringa patula 'Miss Kim'	Miss Kim Lilac	30" o.c.
<b>ANNUALS, PERENNIALS &amp; ORNAMENTAL GRASSES</b>				
ANN	0	Annuals	Annuals	8" o.c.
CA	69	Calamagrostis x acutiflora 'Karl Forester'	Feather Reed Grass	24" o.c.
HR	64	Hemerocallis 'Rosy Returns'	Rosy Returns Daylily	18" o.c.
HS	100	Hemerocallis 'Stella D'Oro'	Stella D'Oro Daylily	18" o.c.
NC	30	Nepeta x faassenii 'Walkers Low'	Walker's Low Catmint	24" o.c.
PAH	0	Pennisetum s. 'Hamelii'	Hamelii Fountain Grass	24" o.c.
PA	0	Perovskia atriplicifolia	Russian Sage	18" o.c.
PC	164	Polygonum cuspidatum	Fleece Flower	12" o.c.

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: There is NO tree removal associated with this project.

NOTE: There is no excavation associated with this project; hence, no erosion control.

NOTE: Stationing increases from north to south.

NOTE: This project crosses NO bridges or major culverts.



FILE NAME = \$FILES\$

USER NAME = \$USER\$	DESIGNED -- WALSH	REVISED -- 01/27/12 PER IDOT
	DRAWN -- WALSH	REVISED -- 04/11/12 PER IDOT
PLOT SCALE = 1"=20'	CHECKED -- WALSH	REVISED -- 05/14/12 PER IDOT
PLOT DATE = \$DATE\$	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

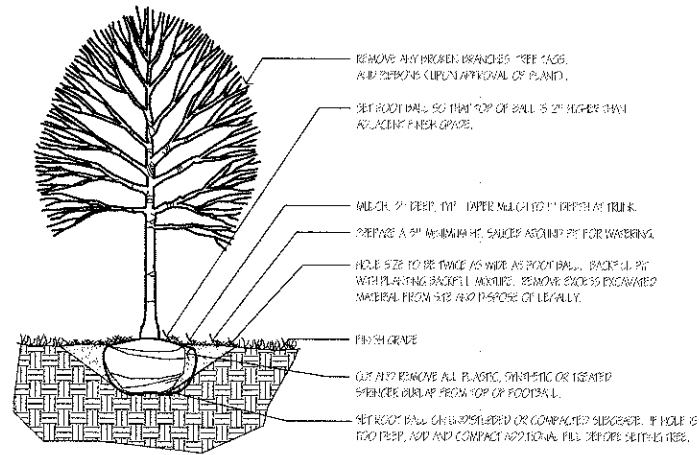
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPE PLAN

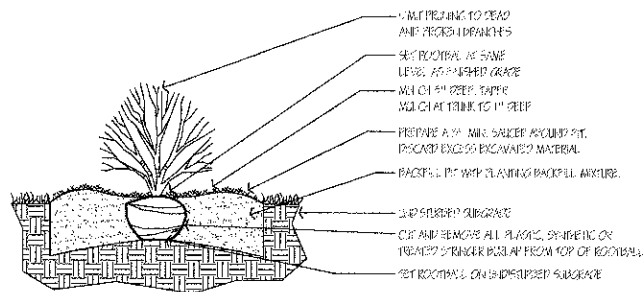
SCALE: 1"=20' DRAWING NO. 19 OF 33 STA. 1348+60 TO STA. 1340+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	19

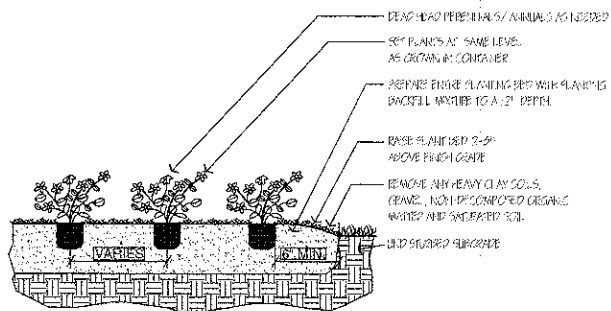
ILLINOIS CONTRACT NO. 63714



**1** DECIDUOUS TREE PLANTING DETAIL  
SCALE: N.T.S.



**2** DECIDUOUS / EVERGREEN SHRUB PLANTING DETAIL  
SCALE: N.T.S.



**3** PERENNIAL, ANNUAL AND GROUNDCOVER PLANTING DETAIL  
SCALE: N.T.S.

## PLANT MATERIALS LIST

Symbol	Quantity	Botanical Name	Common Name	Size and Specifications	Spacing
<b>CANOPY TREES</b>					
AF	3	<i>Acer x freemanii</i> 'Autumn Blaze'	Autumn Blaze Maple	3" Caliper	Per Plan
GT	4	<i>Gleditsia tricanthos</i> 'Skyline'	Skyline Honeylocust	3" Caliper	Per Plan

## DECIDUOUS SHRUBS

RA	527	<i>Rhus aromatica</i> 'Gro-Low'	Gro-Low Sumac	5 Gallon	36" o.c.
RR	104	<i>Rosa rugosa</i>	Rugosa Rose	3 Gallon	36" o.c.
SAW	233	<i>Spirea x b.</i> 'Anthony Waterer'	Anthony Waterer Spirea	5 Gallon	36" o.c.
SF	217	<i>Spirea x bumalda</i> 'Froebeli'	Froebel Spirea	5 Gallon	36" o.c.
SP	616	<i>Syringa patula</i> 'Miss Kim'	Miss Kim Lilac	5 Gallon	30" o.c.

## ANNUALS, PERENNIALS & ORNAMENTAL GRASSES

ANN	0	Annuals (NOT IN CONTRACT)	Annuals (NOT IN CONTRACT)	4" Pot	8" o.c.
CA	882	<i>Calamagrostis x acutiflora</i> 'Karl Forester'	Feather Reed Grass	1 Gallon	24" o.c.
HR	1193	<i>Hemerocallis</i> 'Stella D'Oro'	Stella D'Oro Daylily	1 Gallon	18" o.c.
HS	3535	<i>Hemerocallis</i> 'Stella D'Oro'	Stella D'Oro Daylily	1 Gallon	18" o.c.
NC	1623	<i>Nepeta x faassenii</i> 'Walker's Low'	Walker's Low Catmint	1 Gallon	24" o.c.
PAH	680	<i>Pennisetum a.</i> 'Hameln'	Hameln Fountain Grass	1 Gallon	24" o.c.
PA	953	<i>Perovskia atriplicifolia</i>	Russian Sage	1 Gallon	18" o.c.
PC	2981	<i>Polygonum cuspidatum</i>	Fleece Flower	1 Quart	12" o.c.

## PLANTING NOTES

- The contractor shall provide and install all plant materials in quantities sufficient to complete the planting shown on the drawing, unless noted otherwise. All plants shall comply with the requirements of the current American Standard for Nursery Stock, published by the American Association of Nurserymen. Plants shall meet size, genus, species, and variety per "PML". Plants shall be in good health, free of disease, insects and defects. No "Park Grade" material shall be accepted. Plants may be substituted upon the approval of the Landscape Architect or the governing municipality.
- Plants shall be balled and burlapped or container grown as specified. No root bound material shall be accepted. Plants shall be grown and harvested from local, northern Illinois nursery stock - subject to landscape architect or Engineer approval.
- All plants shall be set plumb. It is the contractor's option, upon Final Inspection, to stake deciduous tree, but it is also the contractor's responsibility to ensure plants remain plumb until the end of the guarantee period. All deciduous trees shall be wrapped to prevent winter damage, which shall be removed after the first winter.
- Prune, thin out, and shape new plants in accordance with standard horticultural practices to retain their natural character. Do not cut tree leader, but be sure to remove any injured, damaged, dead, or crossed branches from the plant at the time of installation.
- The contractor must keep the pavement and work area in a neat and orderly condition throughout the construction process. The general contractor shall remove all construction debris.
- All trees and shrubs shall be planted no less than 10' horizontally from utility structures unless approved by the Engineer.
- All disturbed areas due to project construction activities and contractor to be sodded unless otherwise noted.

FILE NAME = \$FILES\$

USER NAME = \$USER\$	DESIGNED -- WALSH	REVISED -- 01/27/12 PER IDOT
	DRAWN -- WALSH	REVISED -- 04/11/12 PER IDOT
PLOT SCALE = NONE	CHECKED -- WALSH	REVISED -- 05/14/12 PER IDOT
PLOT DATE = \$DATE\$	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT  
OF TRANSPORTATION

LANDSCAPE NOTES, PLANT LIST & PLANTING DETAILS

SCALE: NONE DRAWING NO. 20 OF 33 STA. N/A TO STA. N/A

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	20

ILLINOIS CONTRACT NO. 63714

PART 1 - GENERAL

1.1 SUMMARY:

- A. Landscape Contractor shall furnish all material and labor to install all landscape plantings of every description, as shown on the drawings and specified herein. Work included consists of but is not limited to the following:
  1. Furnish, install, maintain and warranty all trees, shrubs, perennials, ornamental grasses and groundcovers.
  2. Furnish and install all shredded mulch in planting beds.
  3. Furnish and install all topsoil in planting beds.
  4. Furnish and install all planting backfill mixture in planting beds.
  5. Furnish and install all burlap tree wrap.
  6. Provide all guys, stakes and other supporting appurtenances only to maintain plants in a straight and plumb position. No initial guying or staking is required unless required by the Engineer.
  7. Provide temporary water supply, as may be necessary. No source(s) will be provided by Owner.
  8. Warranty all plant material for a period of one year from date of Substantial Completion Inspection and Acceptance.
  9. Provide initial maintenance until Substantial Completion Inspection and Acceptance.
- B. ~~Contractor's bid shall include all cost increases due to delays in construction and shall include nursery price increased for material held beyond anticipated schedule.~~

1.2 REQUIREMENTS OF REGULATORY AGENCIES:

- A. The Contractor shall provide for the protection of the public, employees and property, in accordance with the applicable requirements of Part 1926, Subpart P, "Excavation, Trenching and Shoring," CONSTRUCTION SAFETY AND HEALTH REGULATIONS (OSHA), which, by reference, is made a part of this specification including sections relative to protection of the public, trenches and excavating equipment.
- B. Comply with all Federal or State regulations concerning classification or transportation of plants and fertilizer materials.
- C. All planting procedures will conform to the accepted horticultural practices as established by the American Association of Nurserymen, Inc. (MN) Standard; American Standard of Nursery Stock (ANSI Z60.1 - 2004)

1.3 QUALITY ASSURANCE.

- A. ~~Qualifications~~
  1. ~~The Contractor shall be a company specializing in landscape installation with a minimum of seven (7) years of experience on comparable projects.~~
  2. ~~The Contractor shall have an experience modification rating of less than 1.0.~~
- B. Source Quality Control
  1. All landscape materials shall be from stock inspected and certified by authorized governmental agencies. The stock shall comply with governmental regulations prevailing at the supply source and the job site. The Engineer reserves the right to ask for certification by authorized governmental agencies.
  2. All landscape materials that have been treated with herbicides, pesticides, insecticides, fungicides, etc. should have been applied by a licensed applicator and been treated with products that comply with governmental regulations. The Engineer reserves the right to ask for certification.
  3. All Plant Materials are to be inspected by the Engineer at their place of growth and upon delivery for conformity to specification requirements. Such inspection shall not impair the right of rejection during progress of the work. A written request for inspection of plant material at their place of growth shall be submitted to the Engineer within forty-five (45) days after award of contract or at least thirty (30) calendar days prior to digging (whichever is sooner). This written request shall state the place of growth and quantity and size of plants to be inspected. The Engineer reserves the right to refuse inspection at this time if, in his judgment, a sufficient quantity of plants are not available for inspection. For nurseries located further than 60 miles from Bolingbrook, submit photographs for pre-inspection review.  
  
The plant material shall be obtained from pre-approved nurseries unless otherwise approved by the Engineer. The following nurseries are pre-approved.

1.	Beaver Creek Nursery	(815) 737-8768
2.	Beeson's McHenry County	(815) 843-6382
3.	Charles J. Fiore Co.	(847) 913-1414
4.	Clavey's Nursery	(815) 843-7778
5.	Green Glen Nursery	(815) 723-1140
6.	GRO Horticultural	(847) 669-8858
7.	Hinsdale Nursery	(630) 313-1411
8.	Kaneville Tree Farms	(630) 557-2793
9.	Kendall Hill Nursery	(815) 695-9007
10.	King Nursery	(630) 584-1171
11.	Mariani Nursery	(262) 857-3529
12.	Midwest Groundcovers	(847) 742-1790
13.	Possibility Place Nurseries	(708) 878-7202
14.	Rich's Foxwillow Pines	(815) 338-7442
15.	Stonegate Nursery	(815) 765-2771
16.	Twixwood Nursery	(269) 471-7408
17.	Wilson Nurseries	(847) 683-3700

In the event plant material is found to be unacceptable after review by the Engineer the Contractor shall pursue other sources until acceptable plant material is found, at no additional cost to the Owner. If additional nursery or site visits are required due to unacceptable inspection/reviews, the Contractor shall compensate the Engineer one thousand dollars (\$1,000.00) per day.

Selection or lack of selection at the plant source does not impair the right of the Engineer to review and reject material at the time of shipping, during installation of the work, or after the installation of the work.

C. Substitutions

1. If specified landscape material is not obtainable, notify the Engineer, who will identify alternate sources or substitutes. If substitutions are smaller in size than the specified material, credits to the base bid contract will be made based on comparable cost differentials customary for materials and sizes involved.
2. Plants shall be supplied at the minimum sizes specified. Plants larger than the minimum size may be used upon approval of the Engineer.

1.4 SUBMITTALS

- A. Nursery List: Submit nursery list that complies with the above items under Section 1.3, Quality Assurance.
- B. Samples and Product Data: Submit to the Engineer descriptions of all material proposed to be used by Landscape Contractor for the completion of his work. Delivery of material may begin only after descriptions and/or samples have been approved.
- C. Schedule
  1. Upon authorization to proceed with the work, a schedule indicating the dates of each of the following items will be prepared by the Contractor and submitted to the Engineer:
    - a. Tagging of plant material in nurseries.
    - b. Staking of plant locations on the site.
    - c. Digging and preparation of plant pits and beds.
    - d. Delivery of plant material to the site.
    - e. Planting schedule.
    - f. Substantial completion of the work.
    - g. Schedule of coordinating plant installation with irrigation work.
- D. Maintenance Instructions: Upon completion of the installation, submit written recommendations for maintenance of all portions of the landscape.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. General
  1. Notify the Engineer forty-eight hours in advance of all delivery times for plant material.
  2. Store materials only in locations approved by the Engineer.
- B. Packaged Materials
 

Deliver packaged materials in unopened containers showing weight, analysis, and name of manufacturer. During shipment and storage on site, protect materials from breakage, moisture, heat, theft or other damage and according to manufacturer's recommendations.
- C. Plant Materials
  1. Schedule shipping to minimize on site storage of plants. Stock shall not be shipped until the planting preparations have been completed.
  2. Label the size and variety of plant and securely attach to individual plants or to bundles of like variety and size.
  3. During shipment, plants shall not be bent, stacked, or bound in a manner that damages bark, breaks branches, deforms root balls, or destroys natural shape.
  4. Plant material shall be transported within enclosed trailers or covered by tarpaulin to protect the material from damage caused by drying winds, heat, freezing, or other exposures that may be harmful to the plants. Plant material arriving at the site in a damaged condition shall be rejected and removed from the site.
  5. If delays beyond the Contractor's control occur after delivery, plants shall be kept watered and protected from sun, wind, and mechanical damage; root balls shall be covered with topsoil or mulch. Container-grown stock shall not be removed from containers until planting time. Keep the roots constantly moist until planted.
  6. Handle plants at all times in accordance with the best horticultural practices. Lift balled and burlapped materials from the bottom of the ball only. Balled and burlapped plants which have cracked or broken balls shall be rejected and removed from the site.

PART 2 - MATERIALS

2.1 PLANTS:

- A. General: Refer to PLANT LIST on the drawings for specific types and quantities of plants to be furnished. Contractor shall verify all quantities on the drawings, and if discrepancies are found, the quantities shown on the drawings shall supersede the plant list.
  1. Plants shall be nursery grown in accordance with good horticultural practices, as established by the American Association of Nurserymen, and grown at a Northern Illinois nursery for at least two (2) years. They shall have been root pruned within the last two (2) years. Any exceptions must be approved by the Engineer.
  2. Balled and burlapped (B&B) plants shall be freshly dug. No heeled-in plants or plants from cold storage will be accepted, unless approved by the Engineer. Plants with broken or cracked root balls will be rejected.
  3. Unless specifically noted otherwise, all plants shall be of specimen quality, exceptionally heavy symmetrical and lightly knit.
  4. They shall be sound, healthy and vigorous, well branched and densely foliated when in leaf. They shall be free of disease, insect pests, eggs or larvae, and shall have healthy, well developed root systems. They shall be free from physical damage or adverse conditions that would prevent thriving with the specified result.
  5. Plants shall be of true species and variety, and shall conform to measurements specified in the plant lists, except that plants larger than specified may be used if acceptable to the Engineer. Use of such plants shall not increase the contract price. If larger plants are accepted, the ball-of-earth shall be increased in proportion to the size of the plant.

6. Caliper Measurement shall be taken at a point on the trunk 6 inches above natural ground line for trees up to 4 inches in diameter, and at a point 12 inches above the natural ground line for trees over 4 inches in diameter.
7. Pruning: Trees that have a damaged or crooked leader, or multiple leaders, unless specifically specified, will be rejected. Trees with abrasion of the bark, sunscalds, disfiguring knots, or fresh cuts of limbs over 1-1/4 inches that have not completely callused, will be rejected.
8. Plant materials shall be subject to final approval by the Engineer at the site. The Engineer reserves the right to reject any plant material that does not meet project specifications at the time of planting.

B. Topsoil

1. Salvaged topsoil from on-site clearing or excavation shall not be used as backfill for landscape planting. Only imported topsoil from an approved offsite borrow source shall be used as backfill for plantings.
2. Imported topsoil shall be fertile, friable sandy loam or loam topsoil, comprised of 20%-50% silt, 30%-60% sand and 6%-20% clay. It shall have a pH level of between 6.0 and 7.0 and an organic matter content of between 3% and 8%. It shall be free of seeds, stones, lumps, plants or their roots, sticks and extraneous matter, and shall not be delivered while in a frozen or muddy condition.
3. Before delivery of topsoil is made, a certified analysis of the topsoil, made at the Contractor's expense by a recognized soil test laboratory, shall be submitted to the Engineer. The analysis shall include the breakdown of silt, sand and clay, the pH level, the organic matter percentage as well as the type and amount of any chemicals that may be detrimental to plant life. All soil delivered may be subject to further analysis and failure of the topsoil to average up to the submitted analysis will be grounds for rejection.

C. Planting Backfill Mixture for plant pits or planting beds shall be as follows:

1. Trees and Shrubs	85% topsoil, see section 2.1B above 15% pine fines
2. Perennials and Groundcovers	75% topsoil, see section 2.1B above 25% pine fines

D. Hardwood Bark Mulch

1. Mulch shall be finely shredded and processed composted hardwood bark, free from other foreign material.

E. Burlap

1. Burlap for wrapping root-ball and trunks shall be biodegradable jute mesh not less than seven (7) ounces per square yard. Wrapping materials made from manmade fibers are unacceptable.

F. Water

1. Water supply during installation shall be the sole responsibility of the Contractor.

PART 3 - EXECUTION

3.1 JOB CONDITIONS

A. General

1. Prior to beginning work, the Contractor shall examine and verify the acceptability of the job site and notify the Engineer of unsatisfactory conditions. Do not proceed with the work until unsatisfactory conditions have been corrected or resolved.

B. Utilities

1. Contractor shall be solely responsible for determining location of all utilities. Contractor shall be responsible for obtaining site utility plans and contacting local utility locator service, and shall perform no work on site until utility locator service has marked site utilities. Perform work in a manner that will avoid possible damage. Excavate to avoid underground utilities including hand digging as required. All damage to utilities resulting from work covered in these contract documents will be repaired at the Contractor's expense and no additional cost to the Owner.

C. Planting Season

1. Plant material shall be dug and planted only during the planting season appropriate for each individual plant species. Pre-digging of plants with proper storage may extend the planting season. However, the installation of plant material outside the normal planting season shall be done only with the approval of the Engineer.
  - a. Deciduous Trees: April 1 - November 30
  - b. Deciduous Shrubs: April 15 - November 15
  - c. Perennials and Groundcovers: May 1 - October 10

3.2 PREPARATION

A. Layout

1. Individual plant locations shall be staked on the project site by the Contractor and approved by the Engineer before any planting operations commence. The Engineer reserves the right to adjust plant material locations to meet field conditions, without additions to the base contract price.
2. Accurately stake plant material according to the drawings. Where location or spacing dimensions are not clearly shown, request clarification from the Engineer.
3. If obstructions are encountered that are not indicated, do not proceed with planting operations until alternate plant locations have been selected and approved in writing by the Engineer.

FILE NAME = \$FILES

USER NAME = \$USER\$	DESIGNED -- WALSH	REVISED -- 01/27/12 PER IDOT
PLOT SCALE = NONE	DRAWN -- WALSH	REVISED -- 04/11/12 PER IDOT
PLOT DATE = \$DATE\$	CHECKED -- WALSH	REVISED -- 05/14/12 PER IDOT
	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPE SPECIFICATIONS

SCALE: NONE	DRAWING NO. 21 OF 33	STA. N/A TO STA. N/A	F.A.P. RTE. 0870	SECTION 08-00049-00-LS	COUNTY WILL	TOTAL SHEETS 35	SHEET NO. 21	
							ILLINOIS	CONTRACT NO. 63714

B. Test Drainage

Test each tree pit for drainage prior to installing trees or large shrubs. Use the following procedure:

1. Dig each pit to the minimum specified size. Provide 12" of backfill in all directions around tree rootballs.
2. Fill planting pit with 12" of water. If water level drops 4" or more within 4 hours, the drainage is sufficient and a drainage channel is not required. If, however, the water level drops less than 4" in 4 hours, additional drainage is required. The Engineer shall be notified immediately of any drainage problems.
3. If the Engineer determines that a subsurface drainage system is required, the Contractor will install at no additional cost.

3.3 PLANTING OPERATIONS

A. Planting:

1. Set trees 2-4 inches higher than finish grade. Place trees centrally in pits so that all tree trunks are straight when viewed from end of row. Leave low profile wire baskets, burlap wrapping and ropes intact around balls. All ropes shall be biodegradable, nylon rope is not acceptable and will result in plant material being rejected.
2. Shrubs shall be set 2 inches higher than finish grade. In the case of container grown shrubs, remove containers before planting and loosen the sides of root ball in several places, fraying the roots on the outside of the ball sufficiently to encourage rapid root extension into the surrounding soil and to prevent girdling of root mass. Plant groundcover and perennials so that the top of the root mass is even with the surrounding grade. Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants and triangularly spaced layout unless otherwise shown on Drawings. Adjust spacing so plants are within six (6") inches of edge of bed. Planting of shrubs, groundcovers and perennials around tree root balls shall occur beyond the perimeter of the root ball. Do not plant directly over any root balls.
3. Protect plants at all times from sun or drying winds. Plants that cannot be planted immediately on delivery shall be kept in the shade, well protected with soil, mulch, straw or other acceptable material, and shall be kept well watered. Plants shall not remain unplanted for longer than one (1) day after delivery.
4. Mulch all tree pits and shrub beds with shredded hardwood bark immediately after planting, as detailed in the planting details on the landscape drawings. Water all plants immediately after planting.
5. Mulch all perennials and groundcovers with bark fines immediately after planting, as detailed in the planting details on the landscape drawings. Water all plants immediately after planting.

3.4 CLEAN UP AND PROTECTION

A. Clean Up

1. Excess and waste material shall be removed daily. Keep pavement clean and work area in an orderly condition.
2. When planting in an area has been completed, the area shall be cleared of all debris, soil piles, containers and all paved areas swept.

B. Repairs

1. Any damage to existing landscape, paving, or other such features as a result of work related to this contract shall be repaired by the responsible Contractor to its original condition. Treat, repair, or replace damaged work at the Contractor's expense and at no additional cost to the ~~Owner~~ Engineer

3.5 MAINTENANCE

A. Maintenance

1. ~~The Contractor shall be responsible for maintenance until the certificate of substantial completion. After the certificate of substantial completion, the Owner shall be responsible for all aspects of the maintenance. The Contractor should review the site periodically during warranty period to determine what changes, if any, should be made in the maintenance program. Submit all recommended changes in writing to the Engineer.~~

3.6 ACCEPTANCE

A. Completion of the Work

1. Upon completion of work, the Contractor shall notify the Engineer and the Owner at least ten (10) days prior to requested date of substantial completion of all or portions of the work. Engineer will review all of the work and prepare a punch list of work not installed or not installed in conformance with the contract documents. All work in the punch list must be completed within five (5) working days from date of issue. Where work does not comply with requirements, replace rejected work and continue specified maintenance until reviewed by Engineer and found to be acceptable.

B. Certificate of Substantial Completion

1. Certificate of substantial completion will be issued for acceptable work at sole discretion of the Engineer. If punch list items are issued with the certificate, they must be corrected within five (5) working days. If items are not corrected within five (5) working days then the certificate of substantial completion will be revoked and reissued when the punch list items are corrected.

C. Warranty

1. ~~Warrant for a period of one (1) year, following the certificate of substantial completion, all work, against any defects (including death and unsatisfactory growth) as determined by the Engineer. Defects resulting from neglect by the Owner, abuse or damage by others, or unusual phenomena or incidents beyond the Contractor's control are exempt. Should questions arise concerning the responsibility of replacement, the Engineer shall be the sole judge of the need for replacement.~~
2. ~~Remove and replace all work found to be dead or in unhealthy condition during warranty period as determined by Engineer.~~
3. ~~Replacements shall match adjacent specimens of same species. Replacements are subject to all requirements stated in the contract documents and are subject to review by the Engineer at the project site and should be installed during appropriate planting seasons.~~
4. ~~Repair grades, paving and any other damage resulting from replacement planting operations, at no additional cost to the Owner.~~

D. Final Acceptance

1. ~~One (1) year after date of substantial completion the Engineer will review the work for final acceptance. Upon satisfactory completion of repairs and / or replacements the Engineer will certify, in writing, final acceptance of the work, which will serve as evidence that Contractor's one (1) year warranty obligations have been met.~~

FILE NAME = \$FILE\$

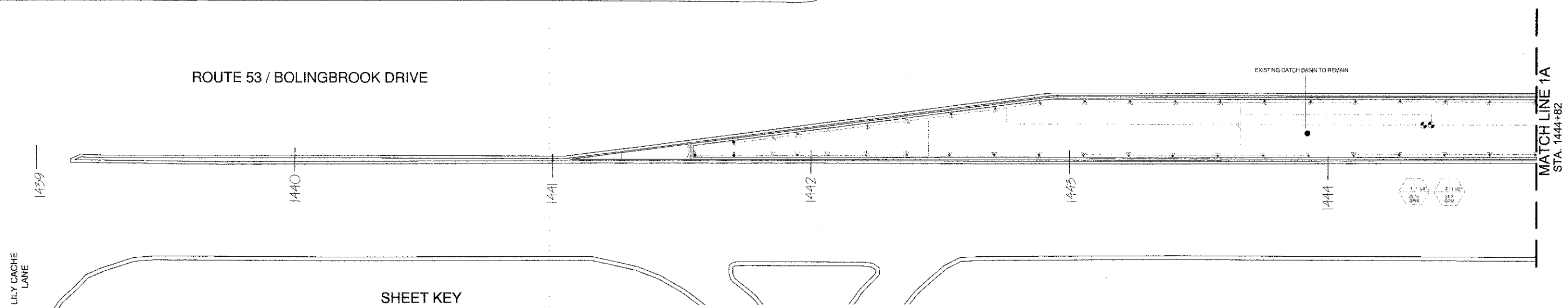
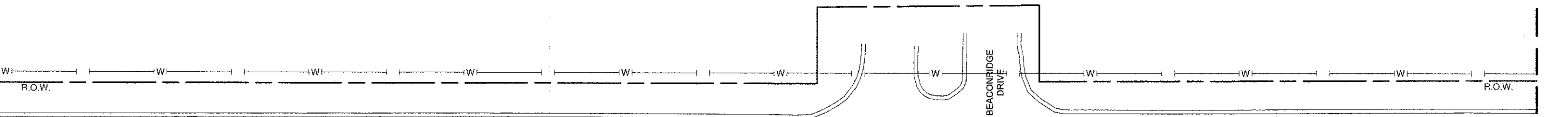
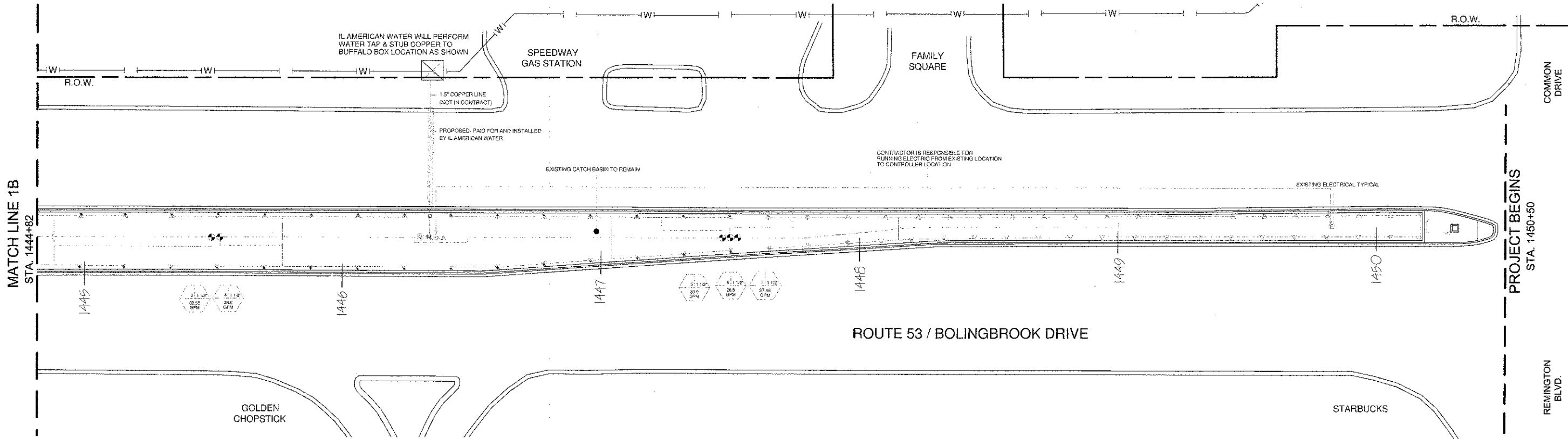
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PLOT DATE = \$DATE\$	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

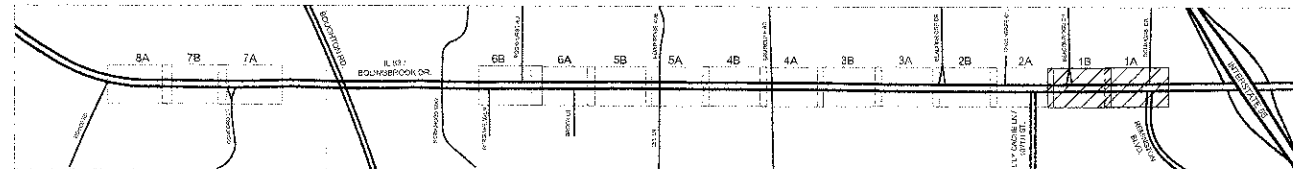
LANDSCAPE SPECIFICATIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	22
ILLINOIS			CONTRACT NO. 63714	

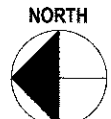
SCALE: NONE DRAWING NO. 22 OF 33 STA. N/A TO STA. N/A



**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: ALL BORING PERPENDICULAR TO ROUTE 53 SHALL BE PUSHED BY ILLINOIS & AMERICAN WATER, FREE OF CHARGE.



FILE NAME = \$FILES

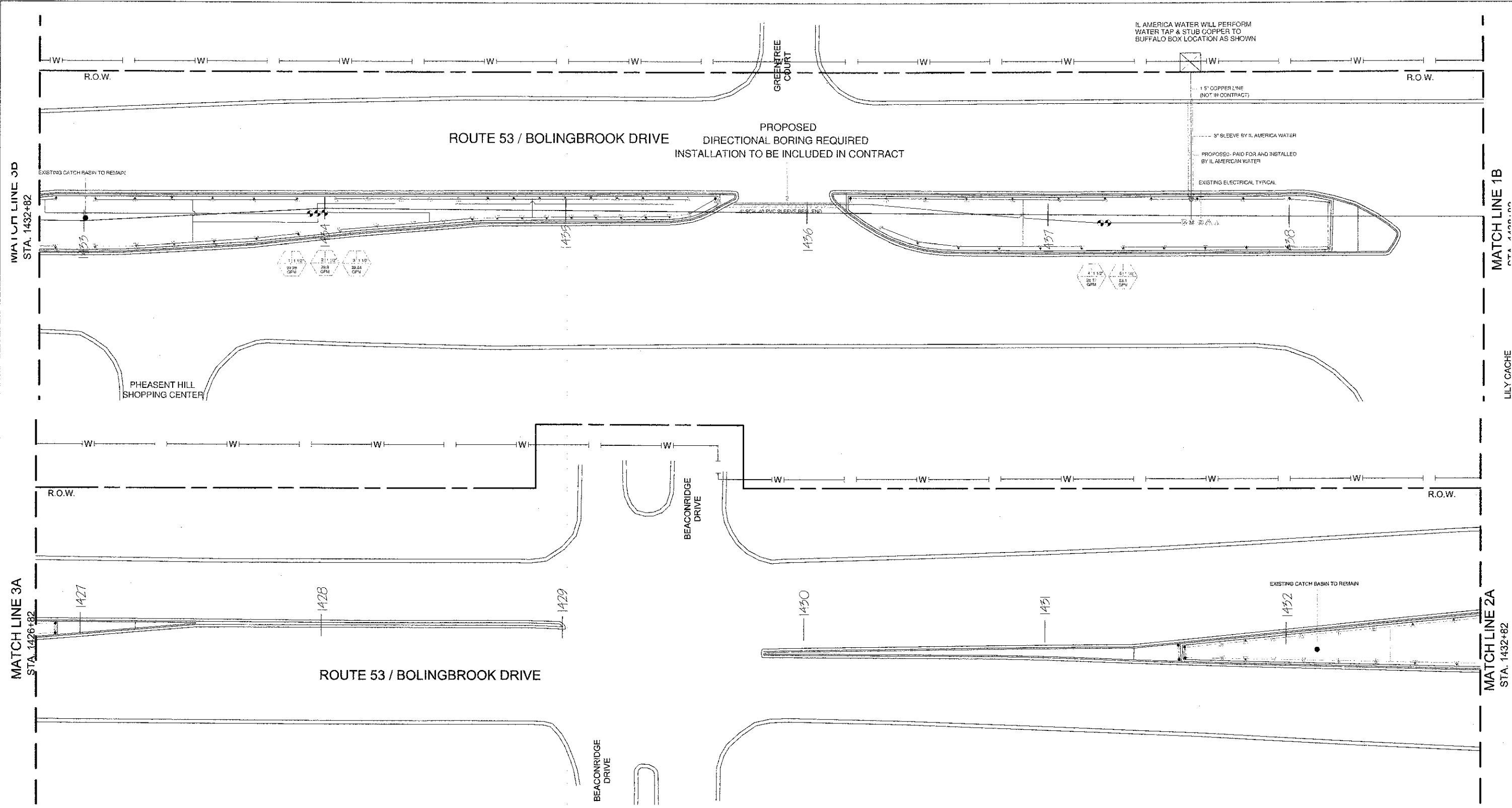
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	DRAWN - WALSH	REVISED - 04/11/12 PER IDOT
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PLOT DATE = \$DATE\$	DATE - 06/29/11	REVISED - 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN

SCALE: 1"=20' DRAWING NO. 23 OF 33 STA. 1450+50 TO STA. 1438+82

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	23
ILLINOIS			CONTRACT NO. 63714	



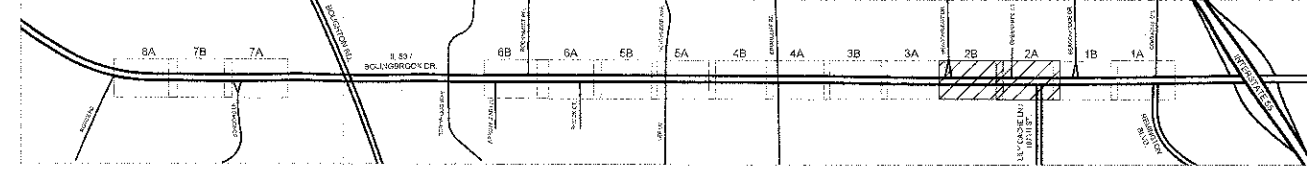
MATCH LINE 3D  
STA. 1432+82

MATCH LINE 1B  
STA. 1432+82

MATCH LINE 3A  
STA. 1426+82

MATCH LINE 2A  
STA. 1432+82

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: ALL BORING PERPENDICULAR TO ROUTE 53 SHALL BE PUSHED BY ILLINOIS & AMERICAN WATER, FREE OF CHARGE.



FILE NAME = \$FILES\$

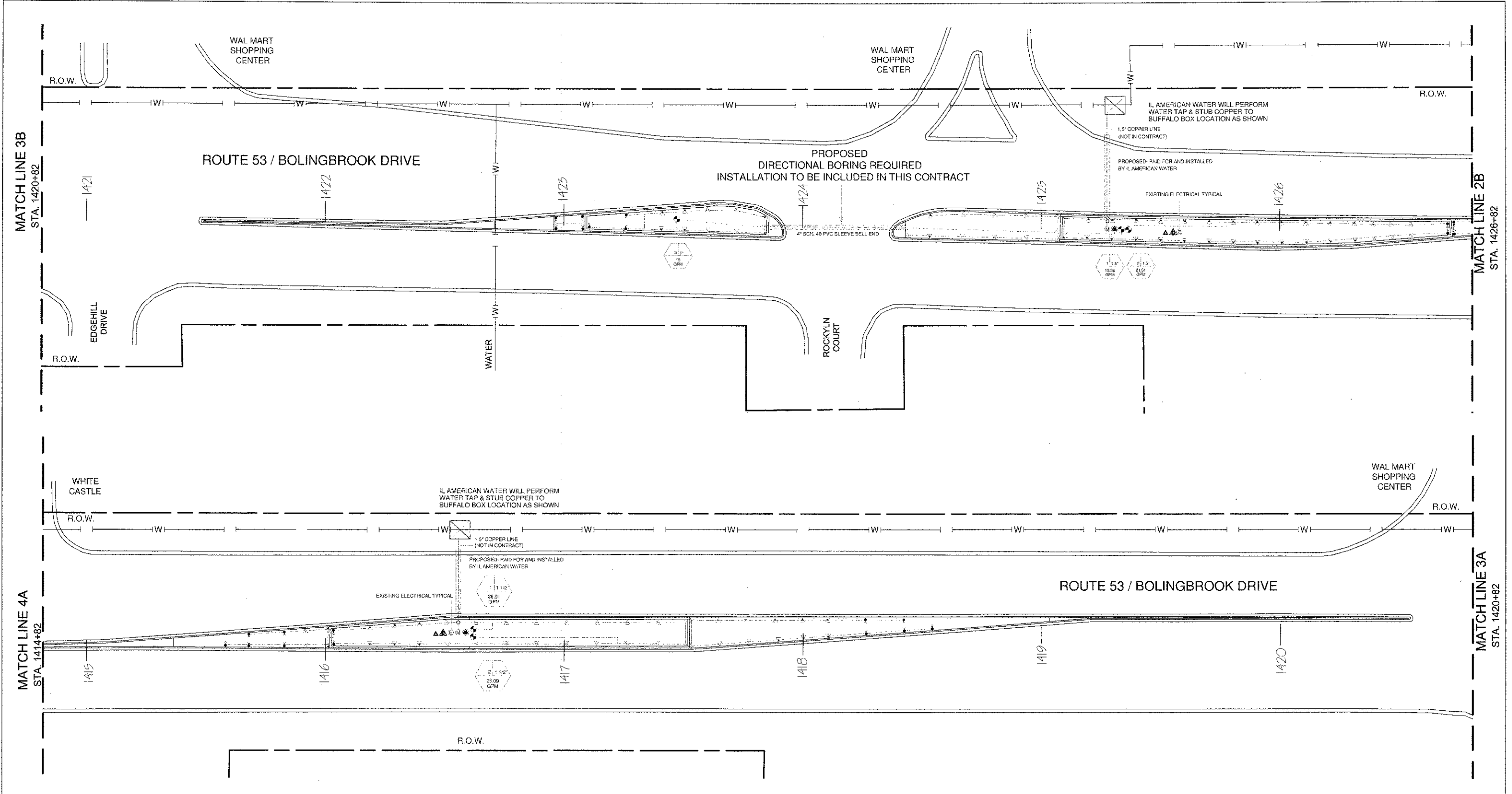
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PLOT DATE = \$DATE\$	CHECKED -- WALSH	REVISED -- 05/14/12 PER IDOT
	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN  
SCALE: 1"=20' DRAWING NO. 24 OF 33 STA. 1438+82 TO STA. 1426+82

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL.	33	24
ILLINOIS			CONTRACT NO. 63714	





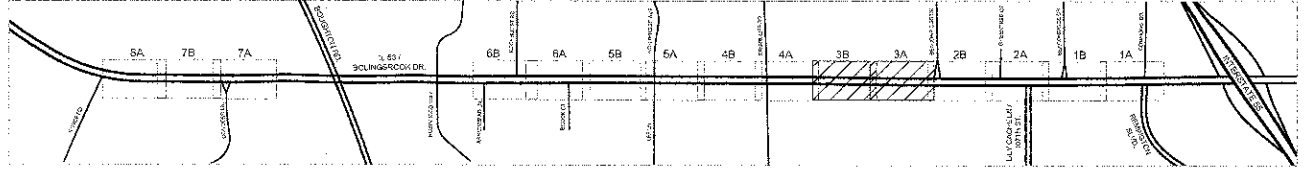
MATCH LINE 3B  
STA. 1420+82

MATCH LINE 2B  
STA. 1428+82

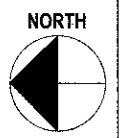
MATCH LINE 4A  
STA. 1414+82

MATCH LINE 3A  
STA. 1420+82

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: ALL BORING PERPENDICULAR TO ROUTE 53 SHALL BE PUSHED BY ILLINOIS & AMERICAN WATER, FREE OF CHARGE.



FILE NAME = \$FILE\$

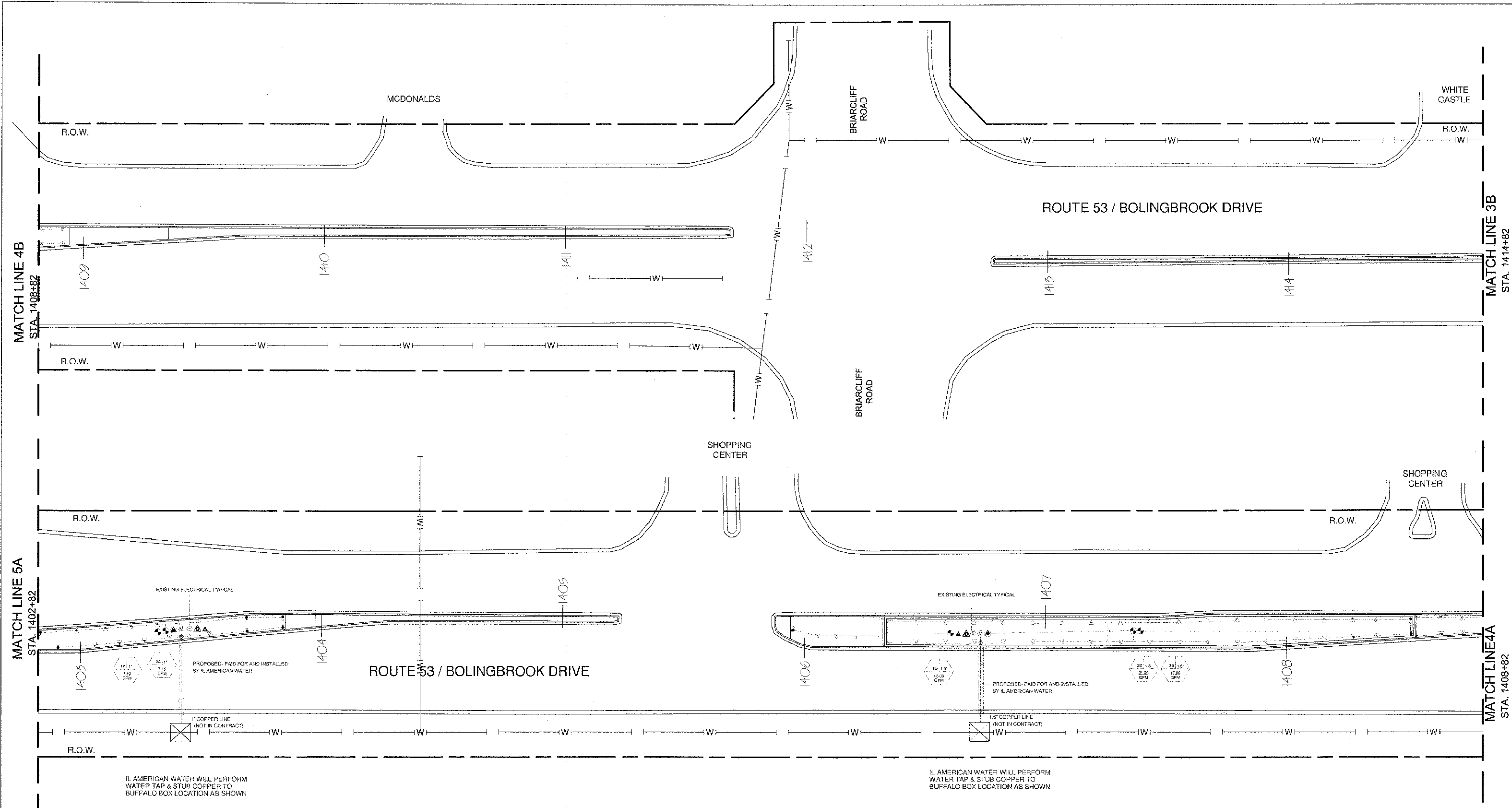
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PLOT DATE = \$DATE\$	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN

SCALE: 1"=20' DRAWING NO. 25 OF 33 STA. 1426+82 TO STA. 1414+82

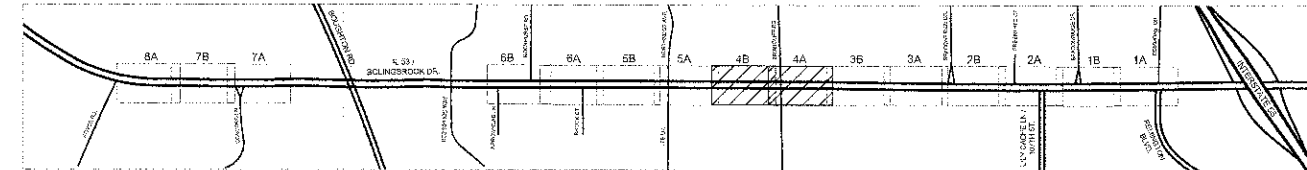
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	25
ILLINOIS			CONTRACT NO. 63714	



IL AMERICAN WATER WILL PERFORM WATER TAP & STUB COPPER TO BUFFALO BOX LOCATION AS SHOWN

IL AMERICAN WATER WILL PERFORM WATER TAP & STUB COPPER TO BUFFALO BOX LOCATION AS SHOWN

**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: ALL BORING PERPENDICULAR TO ROUTE 53 SHALL BE PUSHED BY ILLINOIS & AMERICAN WATER, FREE OF CHARGE.



FILE NAME = \$FILES

USER NAME = \$USER\$	DESIGNED -- WALSH	REVISED -- 01/27/12 PER IDOT
	DRAWN -- WALSH	REVISED -- 04/11/12 PER IDOT
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PLOT DATE = \$DATE\$	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

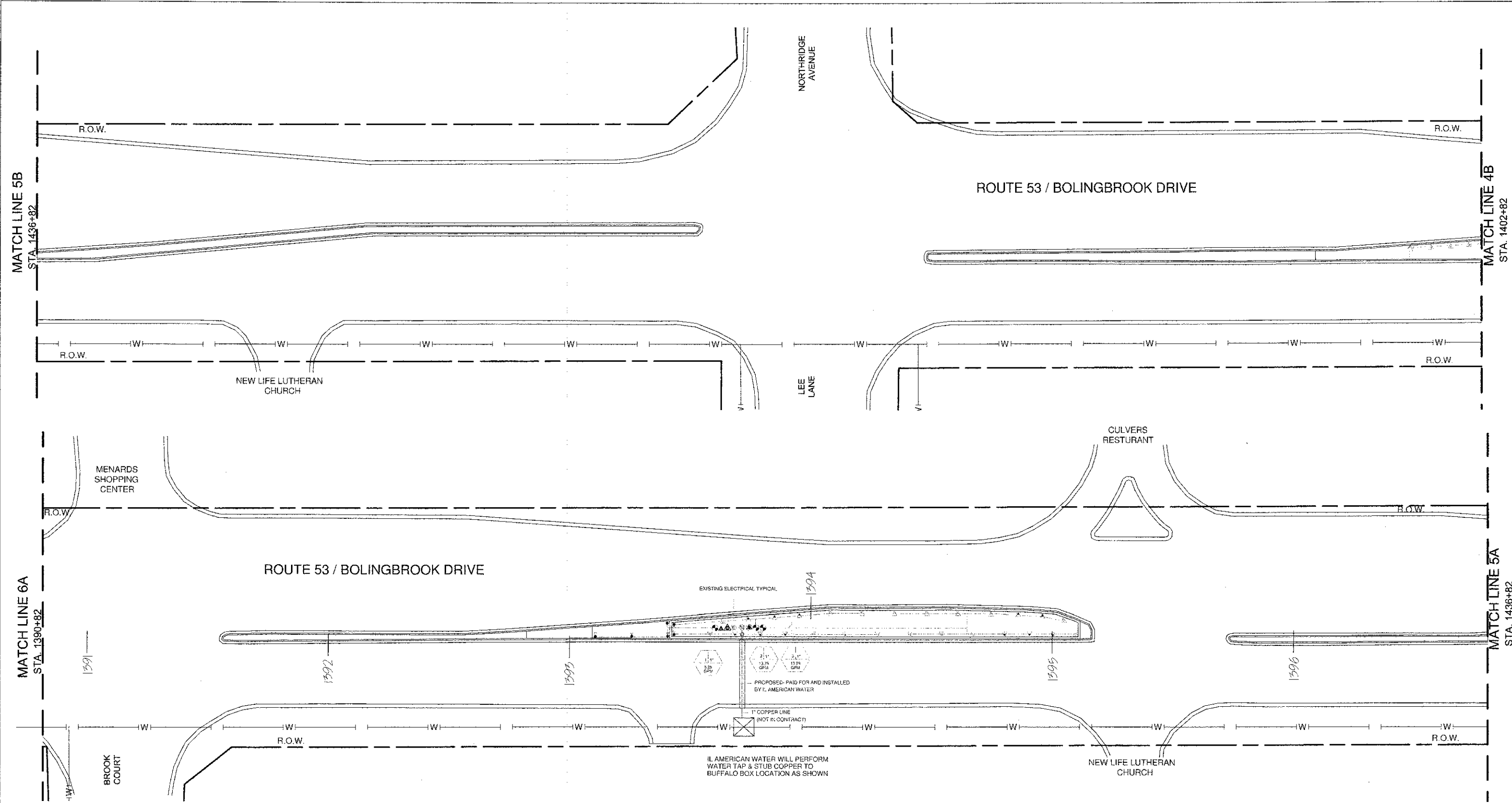
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN

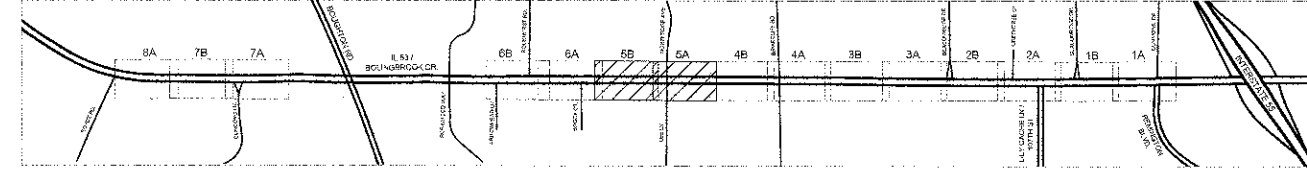
SCALE: 1"=20' DRAWING NO. 26 OF 33 STA. 1414+82 TO STA. 1402+82

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	26

ILLINOIS CONTRACT NO. 63714



**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: ALL BORING PERPENDICULAR TO ROUTE 53 SHALL BE PUSHED BY ILLINOIS & AMERICAN WATER, FREE OF CHARGE.



FILE NAME = \$FILES\$

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	DRAWN -- WALSH	REVISED -- 04/11/12 PER IDOT
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PLOT DATE = \$DATE\$	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

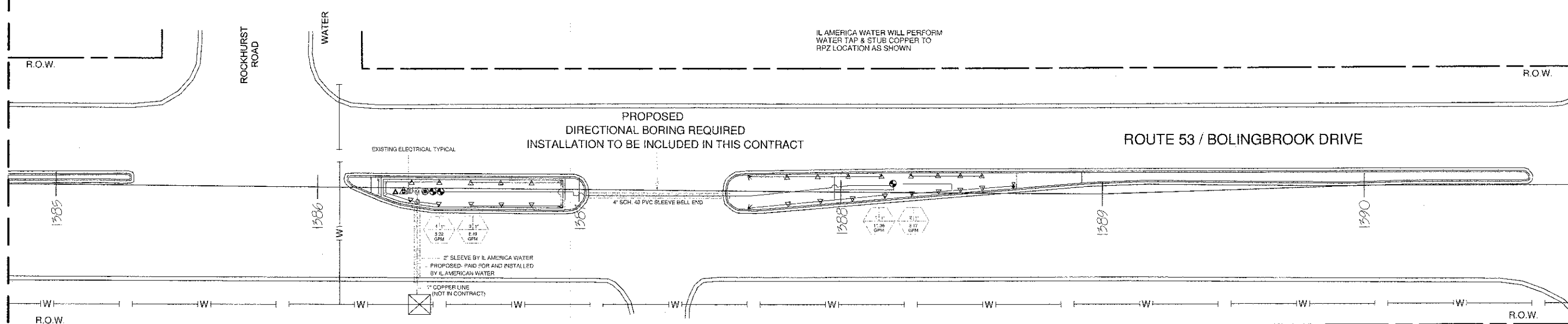
IRRIGATION PLAN

SCALE: 1"=20' DRAWING NO. 27 OF 33 STA. 1402+82 TO STA. 1390+82

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL.	33	27
ILLINOIS			CONTRACT NO. 63714	

STA. 1384+82

MATCH LINE 5B

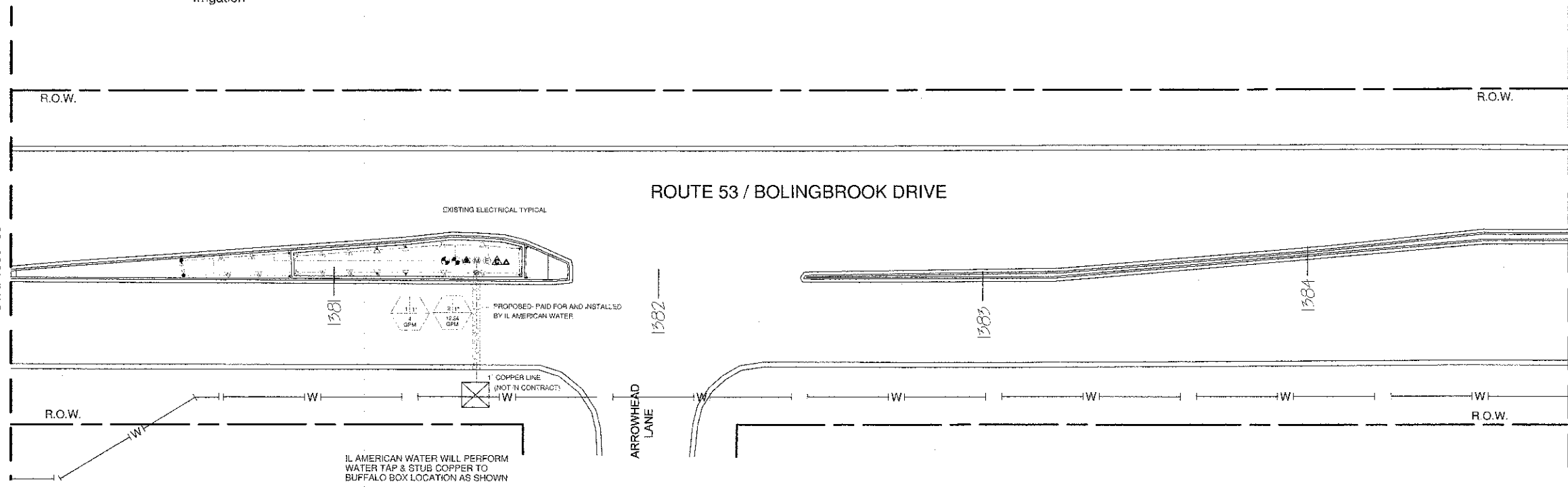


IL AMERICA WATER WILL PERFORM WATER TAP & STUB COPPER TO BUFFALO BOX LOCATION AS SHOWN

SHOPPING CENTER

OMISSION BEGINS STA. 1380+00

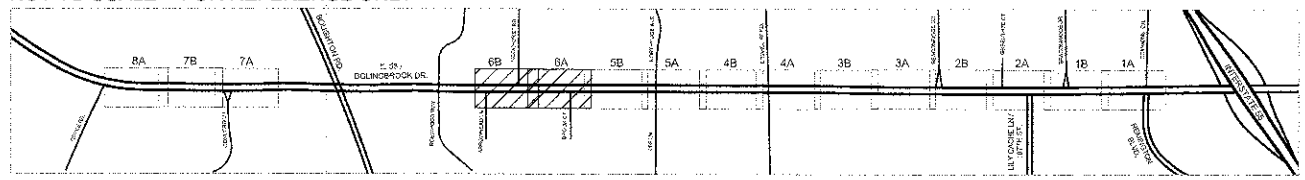
MATCH LINE 6A STA. 1384+82



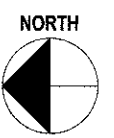
IL AMERICAN WATER WILL PERFORM WATER TAP & STUB COPPER TO BUFFALO BOX LOCATION AS SHOWN

ARROWHEAD LANE

SHEET KEY  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: ALL BORING PERPENDICULAR TO ROUTE 53 SHALL BE PUSHED BY ILLINOIS & AMERICAN WATER, FREE OF CHARGE.



USER NAME = \$USER\$	DESIGNED -- WALSH	REVISED -- 01/27/12 PER IDOT
	DRAWN -- WALSH	REVISED -- 04/11/12 PER IDOT
PLOT SCALE = 1"=20'	CHECKED -- WALSH	REVISED -- 05/14/12 PER IDOT
PLOT DATE = \$DATE\$	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

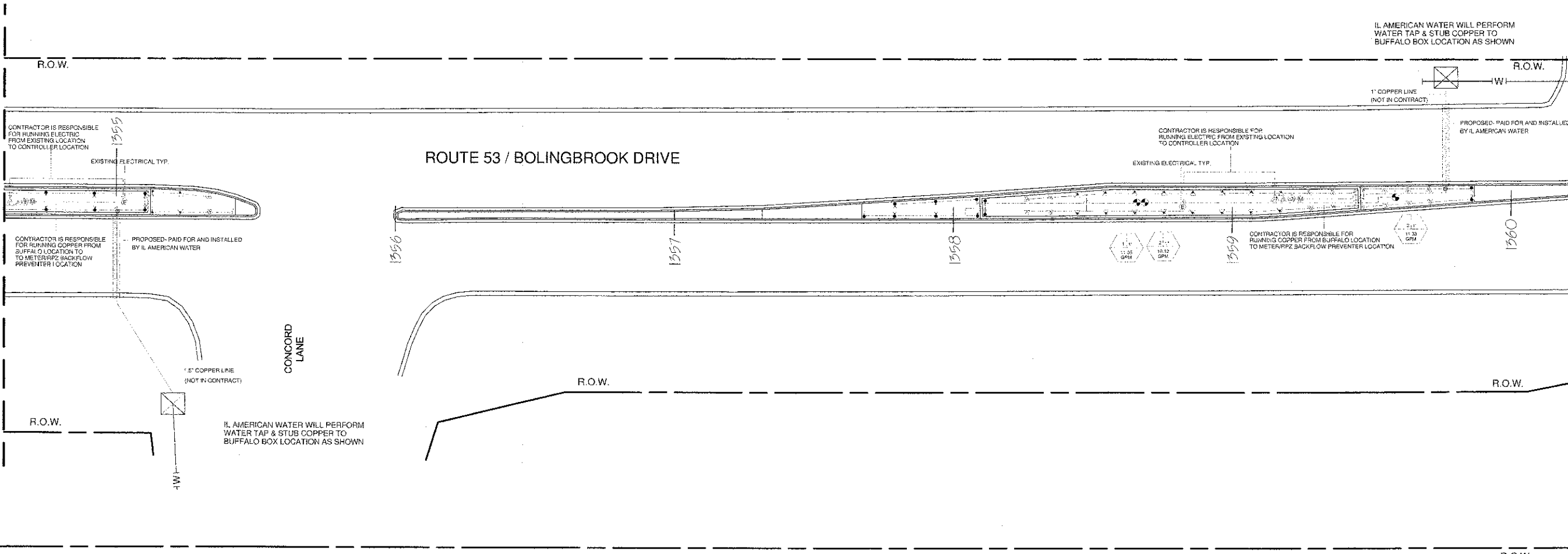
IRRIGATION PLAN

SCALE: 1"=20' DRAWING NO. 28 OF 33 STA. 1390+82 TO STA. 1390+80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	28
ILLINOIS			CONTRACT NO. 63714	

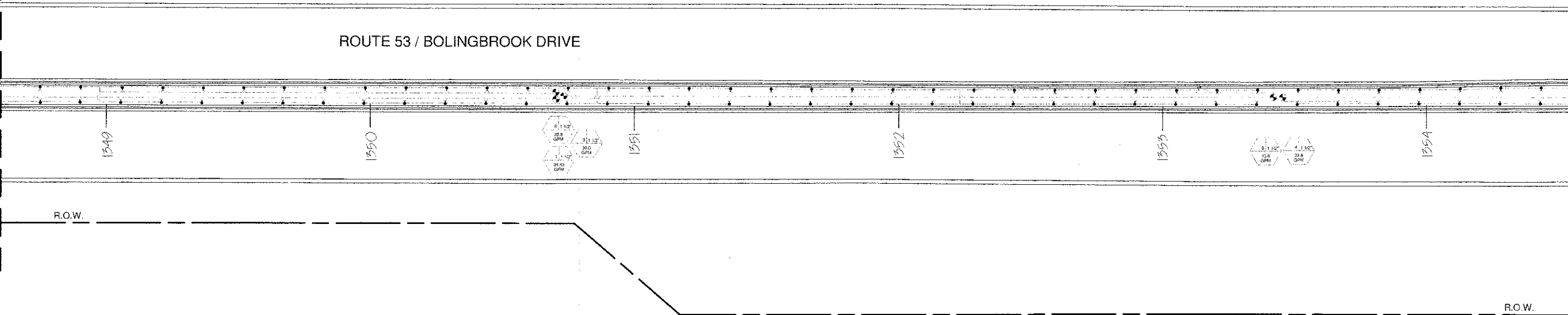
FILE NAME = \$FILE\$

MATCH LINE 7B  
STA. 1354+60



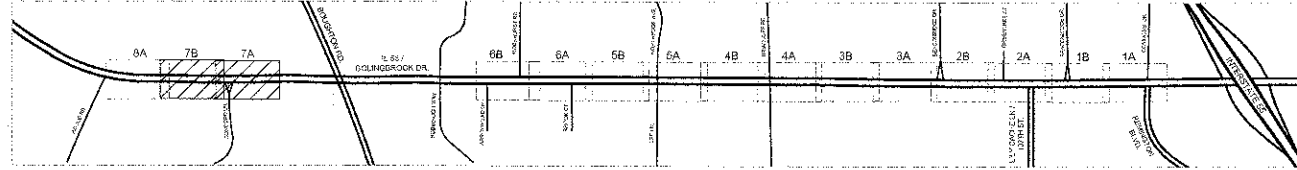
OMISSION ENDS  
STA. 1360+24

MATCH LINE 8A  
STA. 1348+60



MATCH LINE 7A  
STA. 1354+60

SHEET KEY  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: ALL BORING PERPENDICULAR TO ROUTE 53 SHALL BE PUSHED BY ILLINOIS & AMERICAN WATER, FREE OF CHARGE.



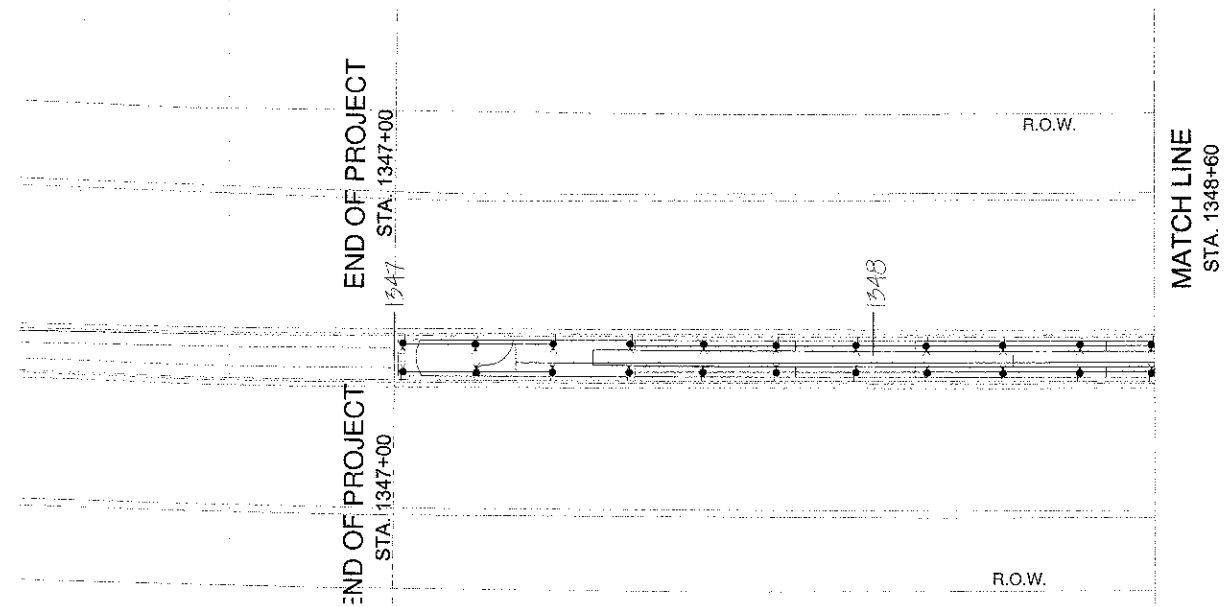
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PLOT DATE = \$DATE\$	CHECKED -- WALSH	REVISED -- 05/14/12 PER IDOT
	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN  
SCALE: 1"=20' DRAWING NO. 29 OF 33 STA. 1360+24 TO STA. 1348+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	29
ILLINOIS		CONTRACT NO. 63714		



**SHEET KEY**  
NOT TO SCALE -- FOR REFERENCE ONLY



NOTE: ALL BORING PERPENDICULAR TO ROUTE 53 SHALL BE PUSHED BY ILLINOIS & AMERICAN WATER, FREE OF CHARGE.



FILE NAME = \$FILES\$

USER NAME = \$USER\$	DESIGNED -- WALSH	REVISED -- 01/27/12 PER IDOT
	DRAWN -- WALSH	REVISED -- 04/11/12 PER IDOT
PLOT SCALE = 1"=20'	CHECKED -- WALSH	REVISED -- 05/14/12 PER IDOT
PLOT DATE = \$DATE\$	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN

SCALE: 1"=20' DRAWING NO. 30 OF 33 STA. 1360+24 TO STA. 1348+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	30
ILLINOIS			CONTRACT NO. 63714	

1A:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists various Hunter and Febco components and pipe classes.

1B:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter and Febco components and pipe classes.

2A:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter, Febco, and PGV components and pipe classes.

2B:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter, Febco, and PGV components and pipe classes.

3A:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter, Febco, and PGV components and pipe classes.

3B:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter, Febco, and PGV components and pipe classes.

4A:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter and Febco components and pipe classes.

4B:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter, Febco, and PGV components and pipe classes.

5A:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter and Febco components and pipe classes.

5B:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter, Febco, and PGV components and pipe classes.

6A:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter, Febco, and PGV components and pipe classes.

6B:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter, Febco, and PGV components and pipe classes.

7A:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter, Febco, and PGV components and pipe classes.

7B:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter, Febco, and PGV components and pipe classes.

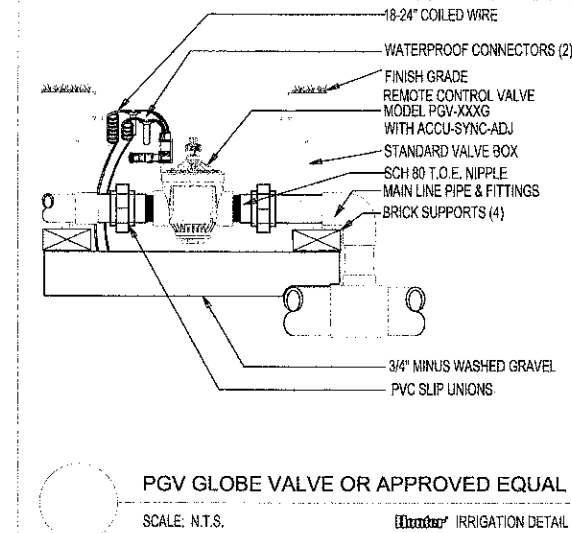
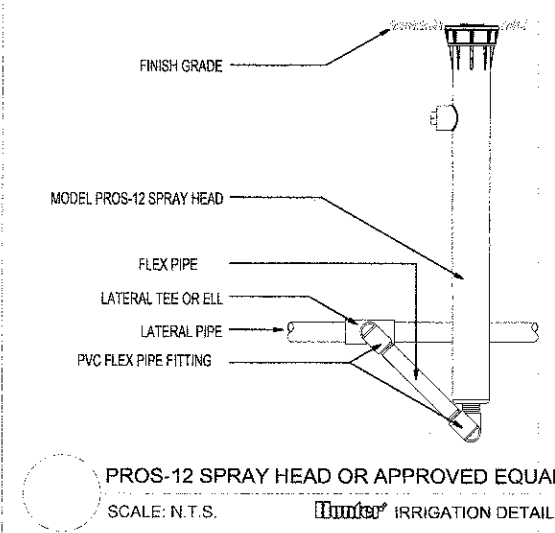
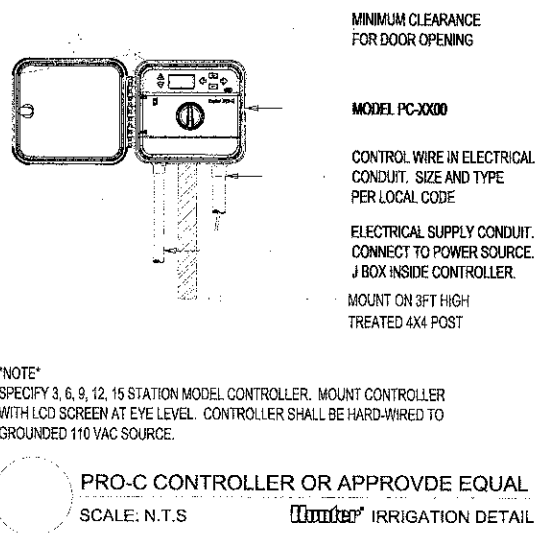
8A:

Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter, Febco, and PGV components and pipe classes.

8B:

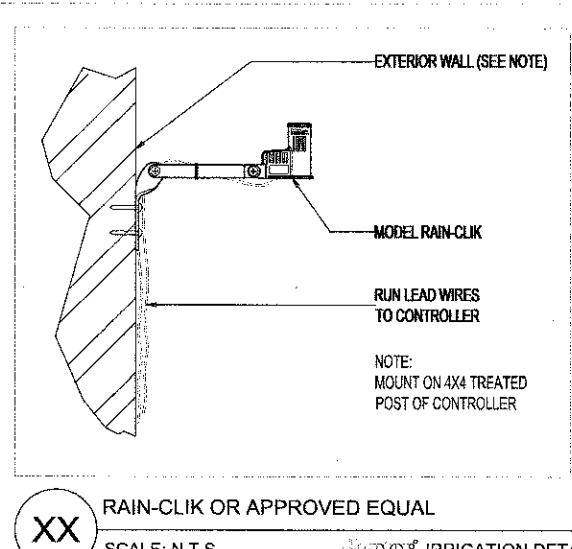
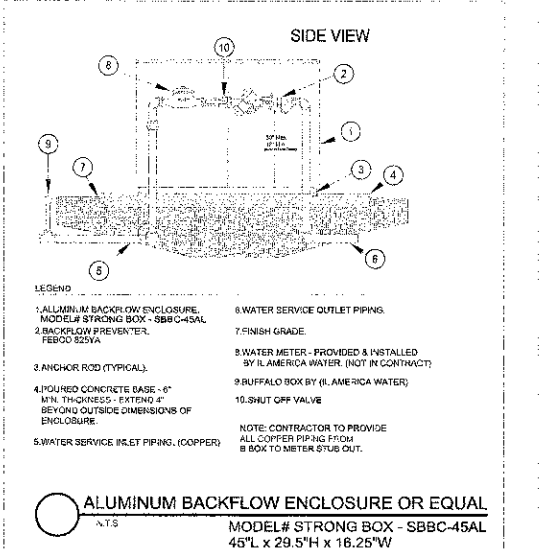
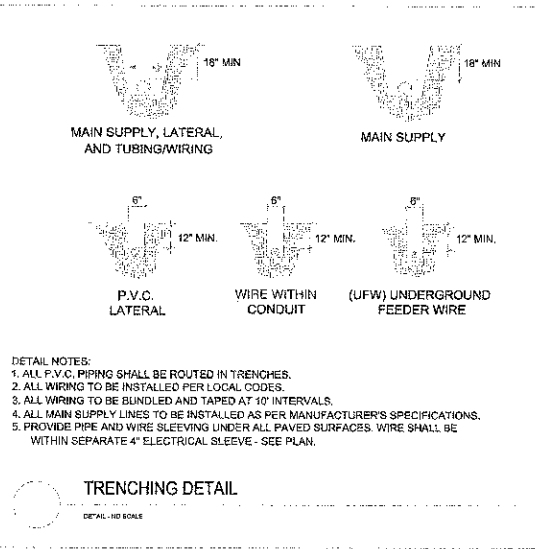
Table with 7 columns: Quantity, Symbol, Description, Part Number, Pressure, Flow, Radius. Lists Hunter, Febco, and PGV components and pipe classes.

NOTE: All materials on this list are PROPRIETARY in nature. Equal Materials shall be allowed upon Engineer's approval.



**NOTES:**

- Head locations are to scale; pipe locations are diagrammatic. Valves and Mainline shown in paved areas are for GRAPHIC CLARITY ONLY. All Valves and Mainline shall be installed within Landscape areas per Village approval.
- Irrigation Design is from the Point Of Connection (POC) only. The design is based on Gallons Per Minute (GPM) and Pounds Per Square Inch (PSI) furnished by others.
- All heads to be installed on swing joints or flexible poly-whip (10" minimum).
- Quick Coupler Valves to be set in turf flush with grade on swing joints. All electric valves shall be located in valve boxes flush with grade.
- All wire splices or connections shall be made with waterproof wire connectors and be in valve or splice boxes.
- Piping crossing under concrete or asphalt in excess of 4' shall be in rigid sleeving 2X pipe O.D.
- Flow pattern and distance of spray shall be regulated with the use of adjustment screw(s) to minimize overthrow onto paved areas; however, radius shall not be reduced more than 25% or allowed to cause a lack of coverage.
- Adjustments necessary in the field shall be made by the contractor.
- Rain Sensor shall be wired into bypass switch box next to controller or terminals provided internally. Rain sensor shall be mounted to a rigid surface in open area.
- No changes to plan or materials is allowed without prior consent of the Engineer.
- Bidding contractors should become thoroughly familiar with all facets of the proposed irrigation system. Failure to clarify misunderstandings, or intent of these drawings and specifications before submittal of bid shall be the responsibility of the contractor.
- Irrigation Contractor will arrange inspections required by local agencies and ordinances during the course of construction as required. ALL WIRING PER LOCAL CODE. BACKFLOW PREVENTION AS PER LOCAL CODE.
- Quick couplers and lines shown will be verified on sight and adjusted to meet conditions.
- Directional boring under roadway to be included in the lump sum bid for this project.
- Sleeving material shall be 4" SCH 40 BE Pipe.
- Boring contractor to provide all necessary and required lane closures and safety boards.
- RPZ backflow preventer and Meter to be installed in an enclosure as shown on the detail.
- Final location of enclosures to be approved by village engineer.
- Bidding contractor is responsible to install and connect a 14 gauge burial wire from existing electrical boxes, and install at a 18" depth, to the location of the controller. Connection and installation to the controller shall be done with weather tight fittings above ground and according to the Controller manufacturer's recommendations for installation.



**Irrigation System Meter:**

The water meter shall be installed within an enclosure per plan.

The water meter shall be installed in accordance with the Commercial Water Meter Requirements. The irrigation system shall be provided with a reduced pressure zone (RPZ) backflow prevention device in accordance with ILAWC requirements and state/local plumbing codes. The RPZ shall be installed downstream of the water meter.

Provide the anticipated maximum water demand (largest zone in operation) for the irrigation system. The meter shall be sized based on this demand. The meter shall be installed with its own connection to the riser. Do not install this meter downstream of the domestic meter, deduct meter installations are not allowed. The developer's plumber shall provide the required piping spread for the meter installation. Eccentric cam or ball valves shall be installed on each side of the meter.

ILAWC shall supply and install the water meter. Contact the Engineering Department at 630-739-8831 to schedule the meter installation. Anticipate about two weeks for the meter installation.

ILAWC shall size, provide and install a water meter for each irrigation meter enclosure.

- Meters are provided with couplings, the meter spread dimension includes the threaded coupling lengths.
- The meter flanges shall be given to the contractor's plumber to install. The meter spread dimension includes the 1/8" gasket dimension. The spacing between the flanges shall be in accordance with the Neptune T-10 Meter Spread (or approved equal) requirement. Two inch water meters shall be provided with lockable 2" by-pass. A 2" flanged test tee shall be installed immediately downstream of the meter.
- Refer to the Schlumberger (or approved equal) water meter specifications regarding additional installation requirements for the Neptune T-10 water meter.

Neptune T-10 ***Meter Size	Meter Spread	Meter -Type of End	Threads per Inch
5/8" x 3/4"	12-3/4"	*Male - Threaded	11-1/2"
3/4" Long	14-1/4"	*Male - Threaded	11-1/2"
1"	16-1/4"	*Male - Threaded	11-1/2"
1-1/2"	13-1/4"	**Flanged to Flange	N/A
2"	17-1/4"	**Flanged to Flange	N/A

**NOTE:** All materials on this list are PROPRIETARY in nature. Equal Materials shall be allowed upon Engineer's approval.

FILE NAME = \$FILE\$

USER NAME = \$USER\$	DESIGNED -- WALSH	REVISED -- 01/27/12 PER IDOT
	DRAWN -- WALSH	REVISED -- 04/11/12 PER IDOT
PLOT SCALE = 1"=20'	CHECKED -- WALSH	REVISED -- 05/14/12 PER IDOT
PLOT DATE = \$DATE\$	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

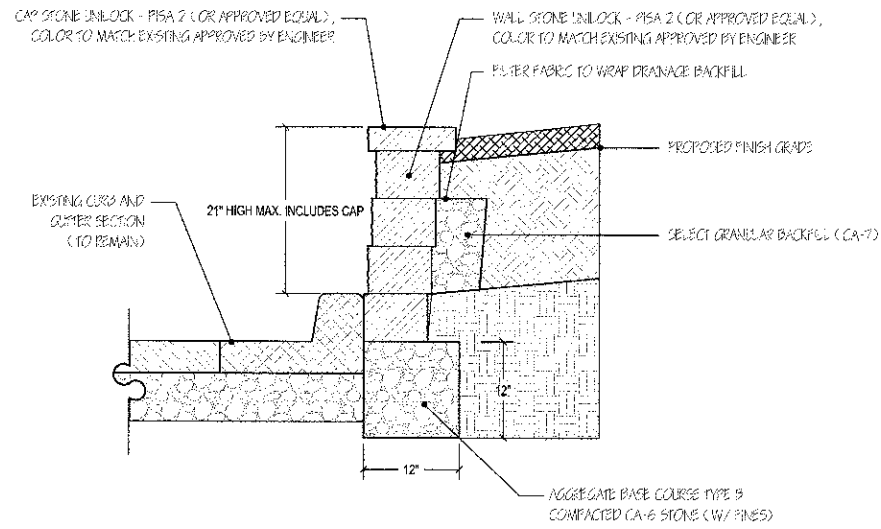
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IRRIGATION DETAILS & NOTES

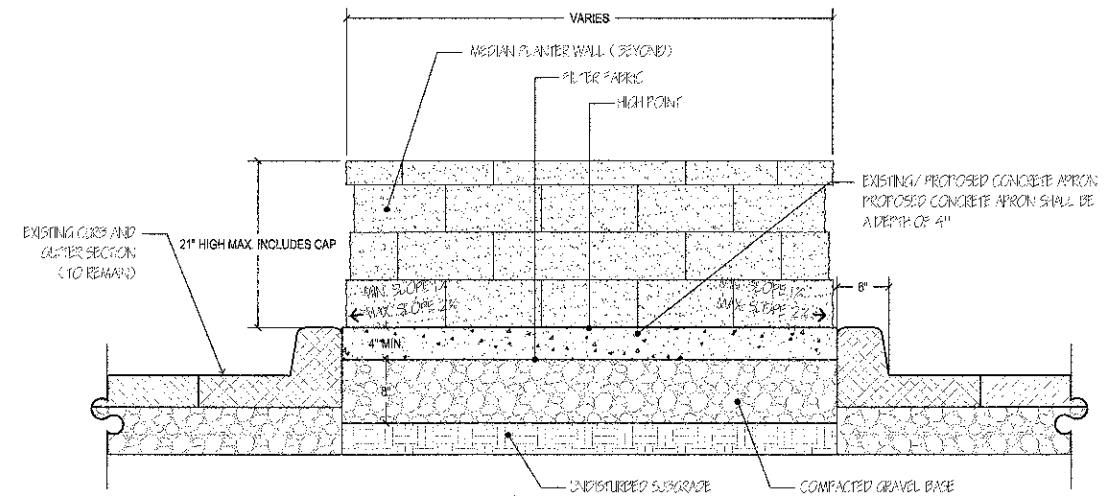
SCALE: NONE DRAWING NO. 32 OF 33 STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	32
ILLINOIS			CONTRACT NO. 63714	

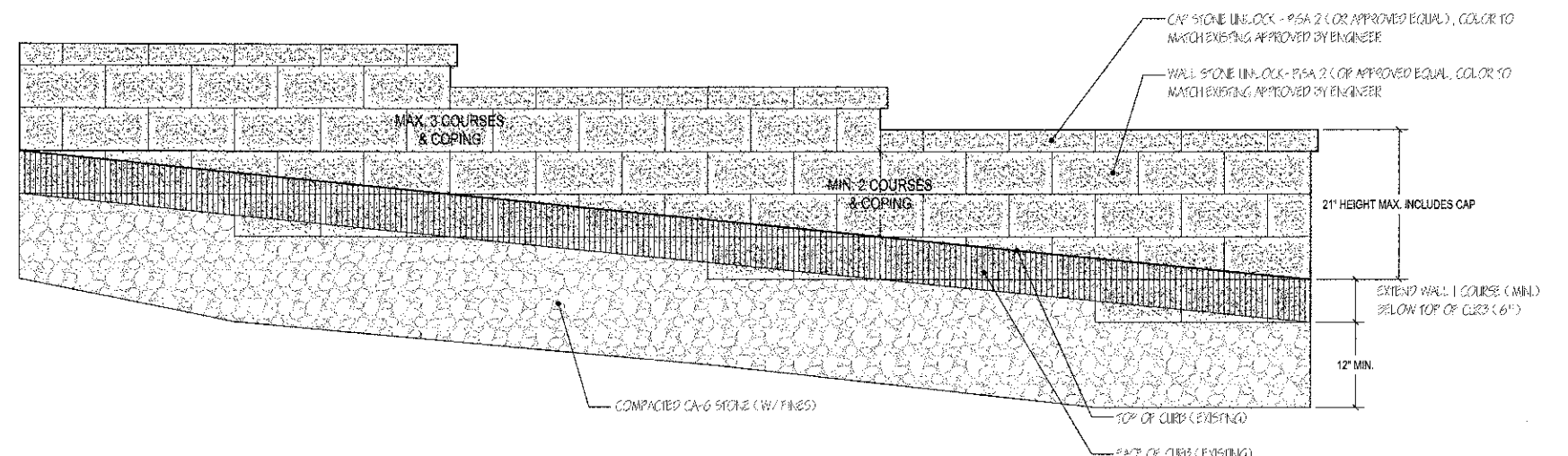




**1** WALL SECTION (TYP.)  
SCALE: 1" = 1'-0"



**2** EXISTING/PROPOSED CONCRETE APRON SECTION (TYP.)  
SCALE: 1" = 1'-0"



**3** WALL ELEVATION (TYP.)  
SCALE: 1" = 1'-0"

WALL END TO WALL END STATIONS:

- STA. 1347+00 TO 1355+13
- STA. 1380+87 TO 1381+58
- STA. 1393+41 TO 1395+10
- STA. 1406+33 TO 1408.53
- STA. 1416+10 TO 1417+52
- STA. 1423+08 TO 1423+86
- STA. 1425+08 TO 1426+71
- STA. 1431+56 TO 1435+64
- STA. 1436+16 TO 1438+18
- STA. 1441+53 TO 1450+19

FILE NAME = \$FILE\$

USER NAME = \$USER\$	DESIGNED -- WALSH	REVISED -- 01/27/12 PER IDOT
	DRAWN -- WALSH	REVISED -- 04/11/12 PER IDOT
PLOT SCALE = NONE	CHECKED -- WALSH	REVISED -- 05/14/12 PER IDOT
PLOT DATE = \$DATE\$	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

WALL DETAILS

SCALE: NONE DRAWING NO. 33 OF 33 STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0870	08-00049-00-LS	WILL	33	33
ILLINOIS			CONTRACT NO. 63714	