

PROPOSED HIGHWAY PLANS

FAI ROUTE 55 (I-55)
SECTION (53-1)K

RAMP PAVEMENT REPAIRS
F.A.I. ROUTE 55 (I-55) AT IL ROUTE 17 INTERCHANGE
LIVINGSTON COUNTY

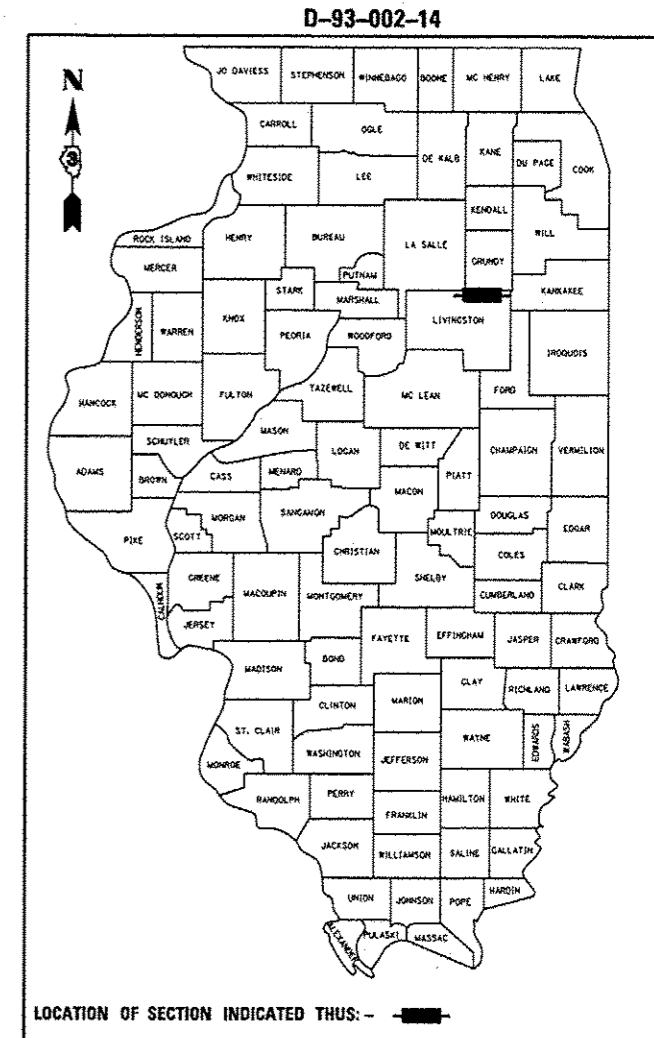
C-93-096-14

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|------------|--------------------|-----------|
| 55 | (53-1)K | LIVINGSTON | 10 | 1 |
| ILLINOIS | | | CONTRACT NO. 66D73 | |

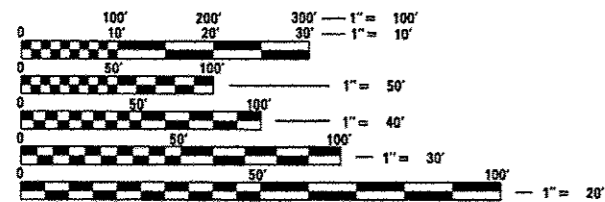
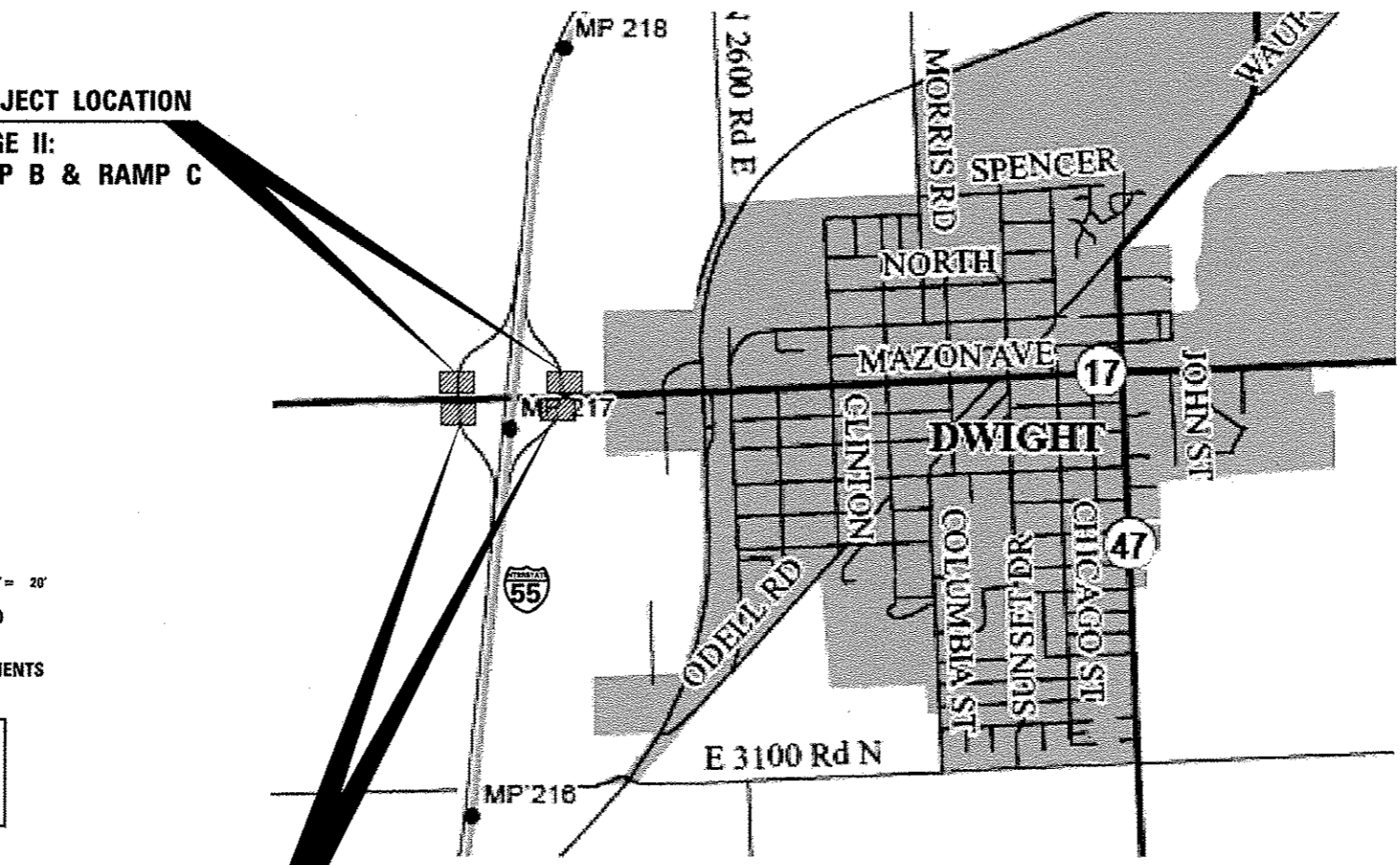
1. COVER SHEET
2. GENERAL NOTES
- 3-4. SUMMARY OF QUANTITIES
5. TYPICAL SECTIONS
6. SCHEDULES
- 7-8. DETOUR FOR RAMP RECONSTRUCTION AT I-55/IL 17 INTERCHANGE
9. RAMP RECONSTRUCTION DETAILS
10. PAVEMENT MARKING DETAILS

STANDARDS

- | | |
|-----------|--|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001008 | DECIMAL OF AN INCH AND OF A FOOT |
| 420001-07 | PAVEMENT JOINTS |
| 420701-02 | PAVEMENT FABRIC |
| 483001-04 | PCC SHOULDER |
| 606001-05 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER |
| 606301-04 | PC CONCRETE ISLANDS AND MEDIANS |
| 701001-02 | OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY |
| 701006-05 | OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE |
| 701201-04 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701311-03 | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY |
| 701451-02 | RAMP CLOSURE FREEWAY/EXPRESSWAY |
| 701901-03 | TRAFFIC CONTROL DEVICES |
| 782001 | PRISMATIC CURB REFLECTORS |



PROJECT LOCATION
STAGE II:
RAMP B & RAMP C



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: JOE KANNEL, P.E.
UNIT CHIEF: RON WOODSHANK
TOWNSHIP: DWIGHT
CONTRACT NO. 66D73

PROJECT LOCATION
STAGE I:
RAMP A & RAMP D

POINT LOCATION

| RURAL | | | | |
|---------------|---------------|---------------|---------------|---------------|
| INTERSTATE | NW RAMP | SW RAMP | NE RAMP | SE RAMP |
| FAI 55 (I-55) | FAI 55 (I-55) | FAI 55 (I-55) | FAI 55 (I-55) | FAI 55 (I-55) |
| 2013 | 2013 | 2013 | 2013 | 2013 |
| ADT 4900 | ADT 900 | ADT 850 | ADT 850 | ADT 900 |
| P.V. 78.02% | P.V. 67.22% | P.V. 84.12% | P.V. 72.00% | P.V. 71.07% |
| S.U. 9.18% | S.U. 7.78% | S.U. 9.41% | S.U. 8.00% | S.U. 8.89% |
| M.U. 14.80% | M.U. 25.00% | M.U. 28.47% | M.U. 20.00% | M.U. 18.44% |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 28, 2014
Paul Coates
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 17, 2014
John D. Baranzelli P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

Oct 17, 2014
Amer Osman P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

COMMITMENTS

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.

DURING THE CONSTRUCTION PROCESS THE EXCAVATED MATERIAL SHALL BE WINDROWED. WHEN THE CONCRETE SHOULDERS HAVE SUFFICIENTLY CURED THE EXCAVATED MATERIAL SHALL BE GRADED AND SHAPED NEXT TO THE IMPROVED SHOULDERS TO MATCH THE EXISTING EMBANKMENT SLOPE

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

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

| | | |
|--------------------|------|--------------|
| GRANULAR MATERIALS | 2.05 | TONS / CU YD |
|--------------------|------|--------------|

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

DATE: August 28, 2014

PREPARED BY: Don Bonil
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: Walter K. Jung
DISTRICT CONSTRUCTION ENGINEER

Wayne P. Plummer
DISTRICT MATERIALS ENGINEER
James H. Wheeler
DISTRICT OPERATIONS ENGINEER

| | | | | | | | | | | | |
|---|-------------|---------------|---------------|---|----------------------|--|---------|------------|--------------|-----------|--|
| FILE NAME * | USER NAME * | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GENERAL NOTES | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| c:\pe_work\pvidot\woodshenkrj\10308272\366073-shs-details.dgn | woodshenkrj | HASAN AHMED | 6/5/2014 H.A. | | | 85 | (53-1)K | LIVINGSTON | 10 | 2 | |
| PLOT SCALE * 100.0000 1 / in. | | HASAN AHMED | | | | SCALE: SHEET 1 OF 1 SHEETS STA. TO STA. | | | | | |
| #MODELNAME* | | RON WOODSHANK | | | | ILLINOIS FED. AID PROJECT CONTRACT NO. 66D73 | | | | | |
| | | 5/10/2014 | | | | | | | | | |

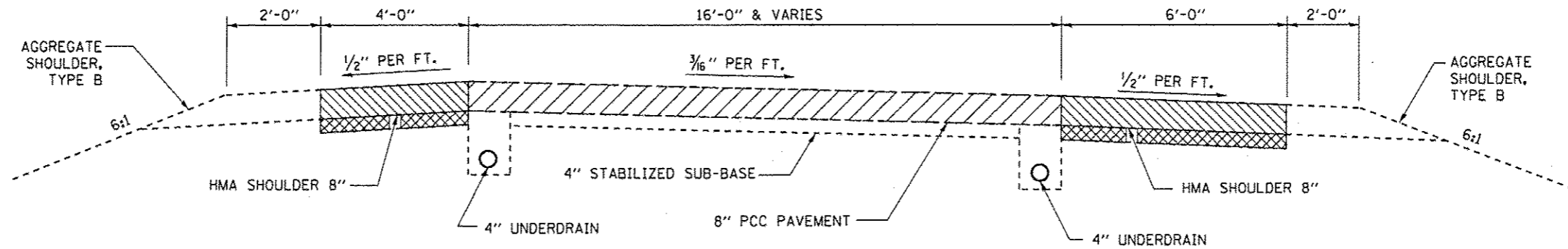
| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTR. CODE |
|----------|---|-------|----------------|---|
| | | | | STATE FUNDS 100% ROADWAY 0005 RURAL |
| 20200100 | EARTH EXCAVATION | CU YD | 83 | 83 |
| 31101000 | SUBBASE GRANULAR MATERIAL, TYPE B | TON | 170 | 170 |
| 42000301 | PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED) | SQ YD | 2096 | 2096 |
| 42001200 | PAVEMENT FABRIC | SQ YD | 2854 | 2854 |
| 44000100 | PAVEMENT REMOVAL | SQ YD | 2096 | 2096 |
| 44000500 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 108 | 108 |
| 44004250 | PAVED SHOULDER REMOVAL | SQ YD | 758 | 758 |
| 48101200 | AGGREGATE SHOULDERS, TYPE B | TON | 28 | 28 |
| 48300300 | PORTLAND CEMENT CONCRETE SHOULDERS 8" | SQ YD | 758 | 758 |
| 60608600 | COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06 | FOOT | 108 | 108 |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 |
| 70100100 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701316 | EACH | 1 | 1 |
| 70100450 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 | L SUM | 1 | 1 |
| 70100455 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701206 | L SUM | 1 | 1 |

| | | | | | | | | | | | |
|---------------------------------------|-------------------------|-------------------------|-------------------------|---|------------------------------|--|----------|------------|-----------------|--------------|--|
| FILE NAME = | USER NAME = woodshankr1 | DESIGNED - HASAN AHMED | REVISED - 6/5/2014 H.A. | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| c:\pw_work\p\p\p\woodshankr1\d8388272 | 0366073-sht-details.dgn | DRAWN - HASAN AHMED | REVISED - | | | 55 | (53-11K) | LIVINGSTON | 10 | 3 | |
| *MODELNAME* | PLOT SCALE = 1/8"=1'-0" | CHECKED - RON WOODSHANK | REVISED - | | | SCALE: SHEET 1 OF 2 SHEETS STA. TO STA. | | | | | |
| | PLOT DATE = 8/26/2014 | DATE - 5/10/2014 | REVISED - | | | ILLINOIS FED. AID PROJECT CONTRACT NO. 66D73 | | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTR. CODE |
|------------|--|--------|----------------|---|
| | | | | STATE FUNDS 100% ROADWAY 0005 RURAL |
| 70100820 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701451 | L SUM | 1 | 1 |
| 70106800 | CHANGEABLE MESSAGE SIGN | CAL MO | 2.5 | 2.5 |
| * 78003100 | PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LETTERS AND SYMBOLS | SQ FT | 78 | 78 |
| * 78009004 | MODIFIED URETHANE PAVEMENT MARKING - LINE 4" | FOOT | 1266 | 1266 |
| * 78009008 | MODIFIED URETHANE PAVEMENT MARKING - LINE 8" | FOOT | 258 | 258 |
| * 78009012 | MODIFIED URETHANE PAVEMENT MARKING - LINE 12" | FOOT | 131 | 131 |
| * 78009024 | MODIFIED URETHANE PAVEMENT MARKING - LINE 24" | FOOT | 105 | 105 |
| 78200300 | PRISMATIC CURB REFLECTOR | EACH | 22 | 22 |
| X4402810 | ISLAND SURFACE REMOVAL AND REPLACEMENT | SQ FT | 255 | 255 |
| * X7830060 | GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS | SQ FT | 78 | 78 |
| Z0016702 | DETOUR SIGNING | L SUM | 1 | 1 |
| Z0018900 | DRILL AND GROUT DOWEL BARS | EACH | 64 | 64 |
| Z0018911 | DRILL AND GROUT #6 TIE BARS | EACH | 277 | 277 |
| Z0024478 | FLEXIBLE DELINEATORS | EACH | 4 | 4 |

* Specialty Items

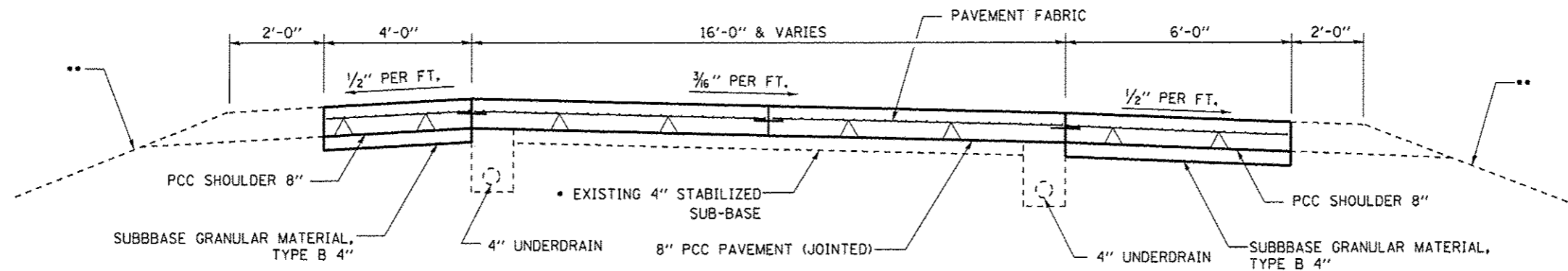
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|---|-------------------------|------------------------|-------------------------|---|------------------------------|---------------------|--------------|---------------------------|-----------------|--------------|
| FILE NAME = | USER NAME = woodshank-i | DESIGNED - HASAN AHMED | REVISED - 6/5/2014 H.A. | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| e:\pwork\pwork\woodshank-i\d0360272\036073-shr-detail.dgn | DRAWN - HASAN AHMED | REVISED - | 55 | | | (53-1)K | LIVINGSTON | 10 | 4 | |
| PLOT SCALE = 1/8" = 1' / in. | CHECKED - RON WOODSHANK | REVISED - | CONTRACT NO. 66073 | | | | | | | |
| MODELNAME# | DATE - 5/10/2014 | REVISED - | SCALE: | | | SHEET 2 OF 2 SHEETS | STA. TO STA. | ILLINOIS FED. AID PROJECT | | |



EXISTING TYPICAL SECTION

LEGEND

- 8" PCC PAVEMENT REMOVAL
- 8" HMA SHOULDER REMOVAL
- EARTH EXCAVATION



PROPOSED TYPICAL SECTION

- EXISTING STABILIZED SUBBASE IS TO REMAIN UNDISTURBED UNLESS UNSUITABLE FOR NEW PAVEMENT.
- GRADE AND SHAPE WITH EXCAVATED MATERIALS TO MATCH EXISTING SLOPE

| | | | | | | | | | | | |
|---|---------------------------|-------------------------|-------------------------|---|-------------------------|---------------------------|---------|------------|--------------|-----------|--|
| FILE NAME = | USER NAME = woodshankr1 | DESIGNED - HASAN AHMED | REVISED - 6/5/2014 H.A. | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TYPICAL SECTIONS | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| ci:\pwwork\pwwidat\woodshankr1\d8360272 | 0365073-shs-details.dgn | DRAWN - HASAN AHMED | REVISED - | | | 55 | (53-DK) | LIVINGSTON | 10 | 5 | |
| | PLOT SCALE = 1/8" = 1'-0" | CHECKED - RON WOODSHANK | REVISED - | | | CONTRACT NO. 66073 | | | | | |
| *MODELNAME* | PLOT DATE = 8/26/2014 | DATE - 5/10/2014 | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |
| SCALE: SHEET 1 OF 1 SHEETS STA. TO STA. | | | | | | | | | | | |

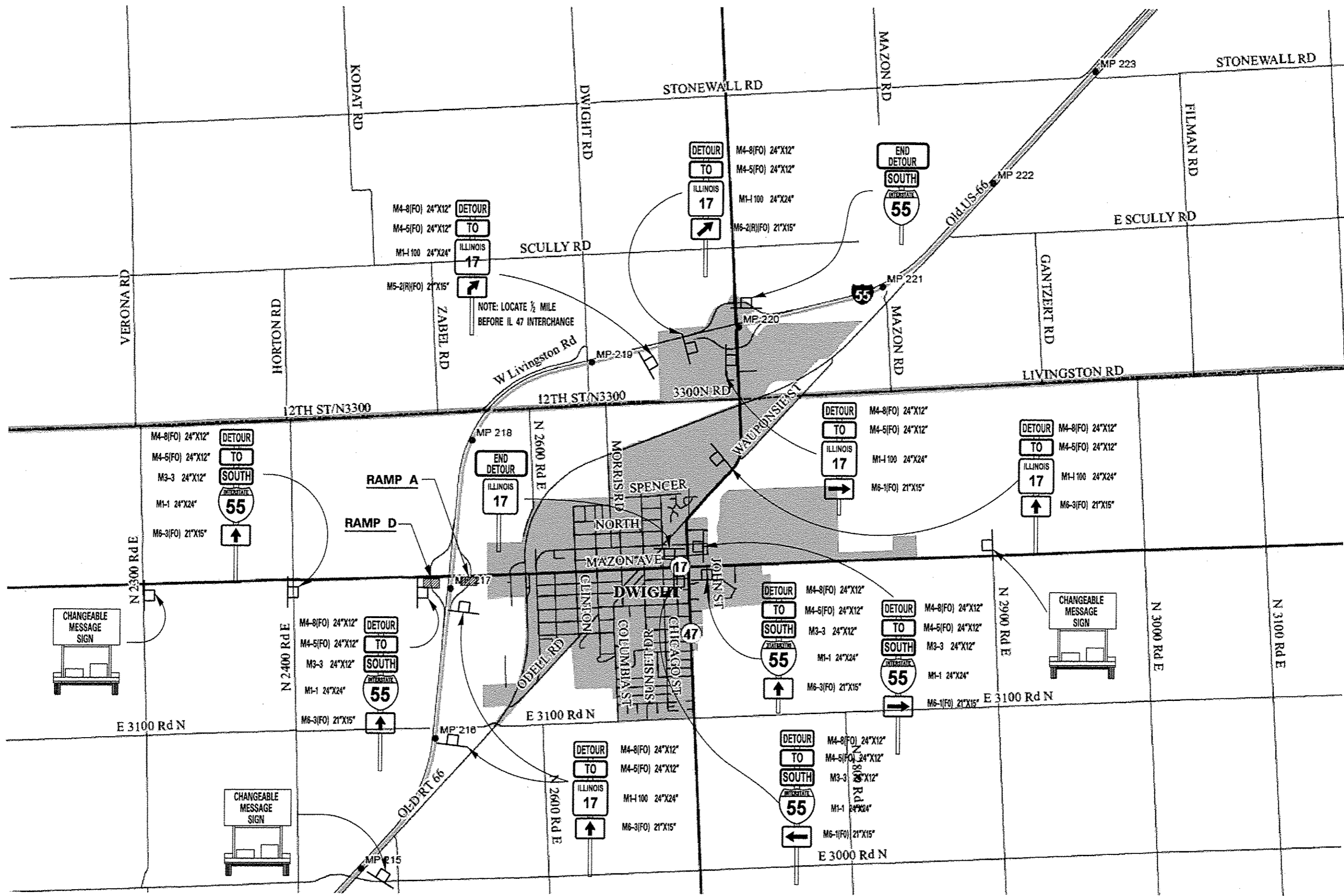
| REMOVAL SCHEDULE | | | | | |
|------------------|--|------------------|-------------------------------------|------------------------|------------------|
| LOCATION | ISLAND SURFACE REMOVAL AND REPLACEMENT | EARTH EXCAVATION | COMBINATION CURB AND GUTTER REMOVAL | PAVED SHOULDER REMOVAL | PAVEMENT REMOVAL |
| | SQ FT | CU YD | FOOT | SQ YD | SQ YD |
| RAMP A | 127.5 | 24 | 54 | 219 | 614 |
| RAMP B | - | 19 | - | 175 | 486 |
| RAMP C | 127.5 | 22 | 54 | 199 | 515 |
| RAMP D | - | 18 | - | 165 | 481 |
| TOTALS | 255 | 83 | 108 | 758 | 2096 |

| PAVEMENT MARKER SCHEDULE | | |
|--------------------------|--------------------------|---------------------|
| LOCATION | PRISMATIC CURB REFLECTOR | FLEXIBLE DELINEATOR |
| | EACH | EACH |
| RAMP A | 11 | - |
| RAMP C | 11 | - |
| IL 17 MAINLINE | - | 4 |
| TOTALS | 22 | 4 |

| RAMP RECONSTRUCTION SCHEDULE | | | | | | |
|------------------------------|---------------------------|-----------------|---------------------------|-------------------------|---|--------------------------------------|
| LOCATION | PCC PAVEMENT 8" (JOINTED) | PCC SHOULDER 8" | DRILL & GROUT #6 TIE BARS | DRIL & GROUT DOWEL BARS | COMBINATION CURB AND GUTTER TYPE M-6.06 | ISLAND SURFACE REMOVAL & REPLACEMENT |
| | SQ YD | SQ YD | EACH | EACH | FOOT | SQ FT |
| RAMP A | 614 | 219 | 83 | 16 | 54 | 128 |
| RAMP B | 486 | 175 | 80 | 16 | - | - |
| RAMP C | 515 | 199 | 74 | 16 | 54 | 128 |
| RAMP D | 481 | 165 | 80 | 16 | - | - |
| TOTALS | 2096 | 758 | 317 | 64 | 108 | 256 |

| AGGREGATE SCHEDULE | | |
|--------------------|---------------------------|---------------------------|
| LOCATION | SUBBASE GRANULAR MATL. 4" | AGGREGATE SHOULDER TYPE B |
| | TON | TON |
| RAMP A | 192 | 12 |
| RAMP B | 149 | 9 |
| RAMP C | 165 | 10 |
| RAMP D | 146 | 11 |
| TOTALS | 652 | 42 |

| PAVEMENT MARKING SCHEDULE MODIFIED URETHANE | | | | | |
|--|-----------|----------|-----------|----------|-----------|
| LOCATION | L&S WHITE | 4" WHITE | 4" YELLOW | 8" WHITE | 12" WHITE |
| | FOOT | FOOT | FOOT | FOOT | FOOT |
| RAMP A | 39 | 221 | 141 | 144 | 84 |
| RAMP B | - | 172 | 115 | - | - |
| RAMP C | 39 | 198 | 136 | 114 | 47 |
| RAMP D | - | 169 | 114 | - | - |



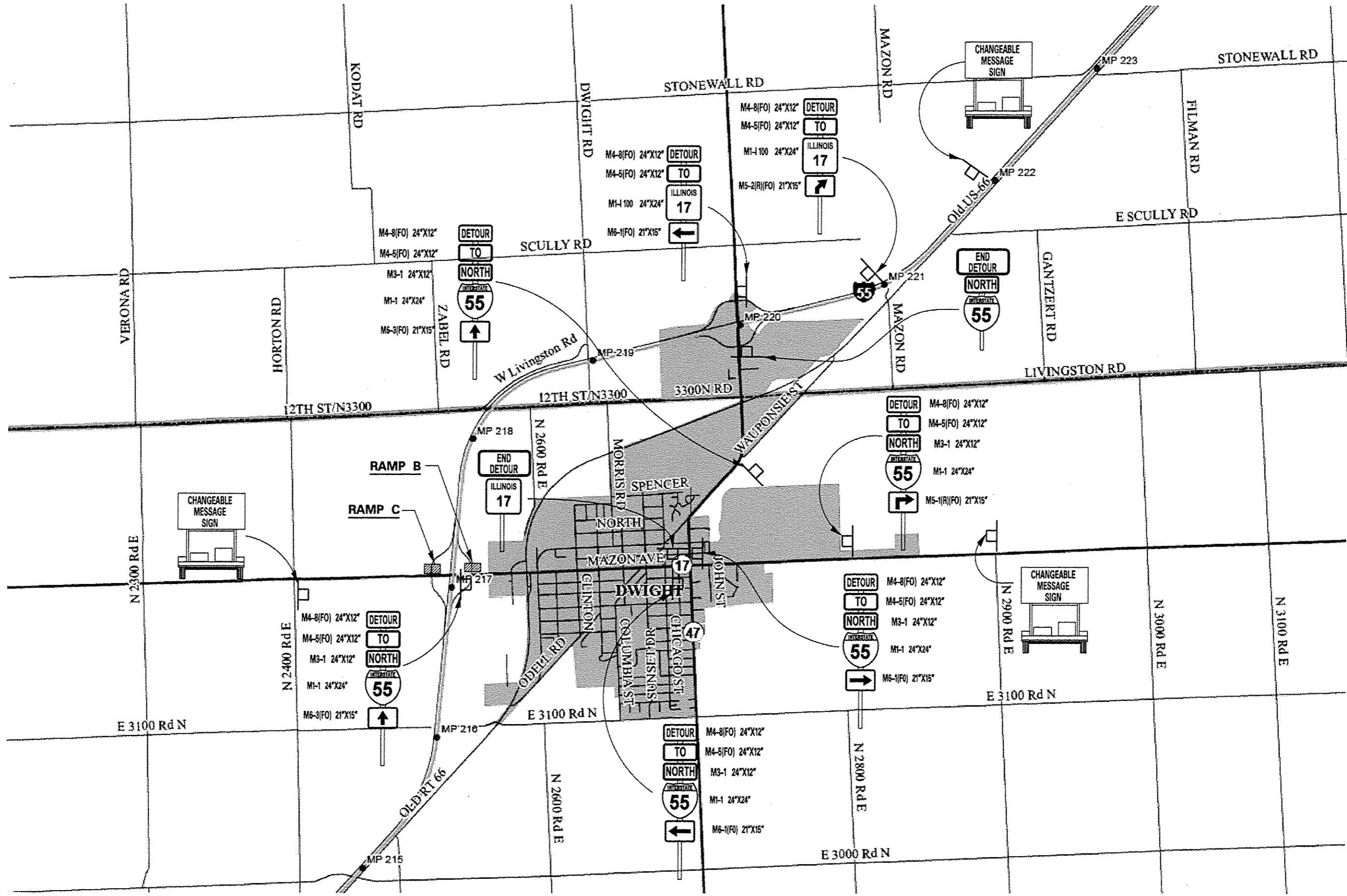
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| FILE NAME : | USER NAME : | DESIGNED : | REVISED : |
| c:\p\work\p\dot\woodshank\1\03282272\0366073-shi-details.dgn | woodshank | HASAN AHMED | 6/5/2014 H.A. |
| PLOT SCALE : | CHECKED : | DRAWN : | REVISED : |
| 1/8" = 1' / 1/4" = 1' | RON WOODSHANK | HASAN AHMED | |
| PLOT DATE : | DATE : | CHECKED : | REVISED : |
| 8/26/2014 | 5/10/2014 | | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR FOR STAGE I TRAFFIC
RAMPS A & D CLOSED AT IL 17 INTERCHANGE**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|--------------------|---------|------------|---------------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 55 | (53-1)K | LIVINGSTON | 10 | 7 |
| CONTRACT NO. 66D73 | | | ILLINOIS FED. AID PROJECT | |



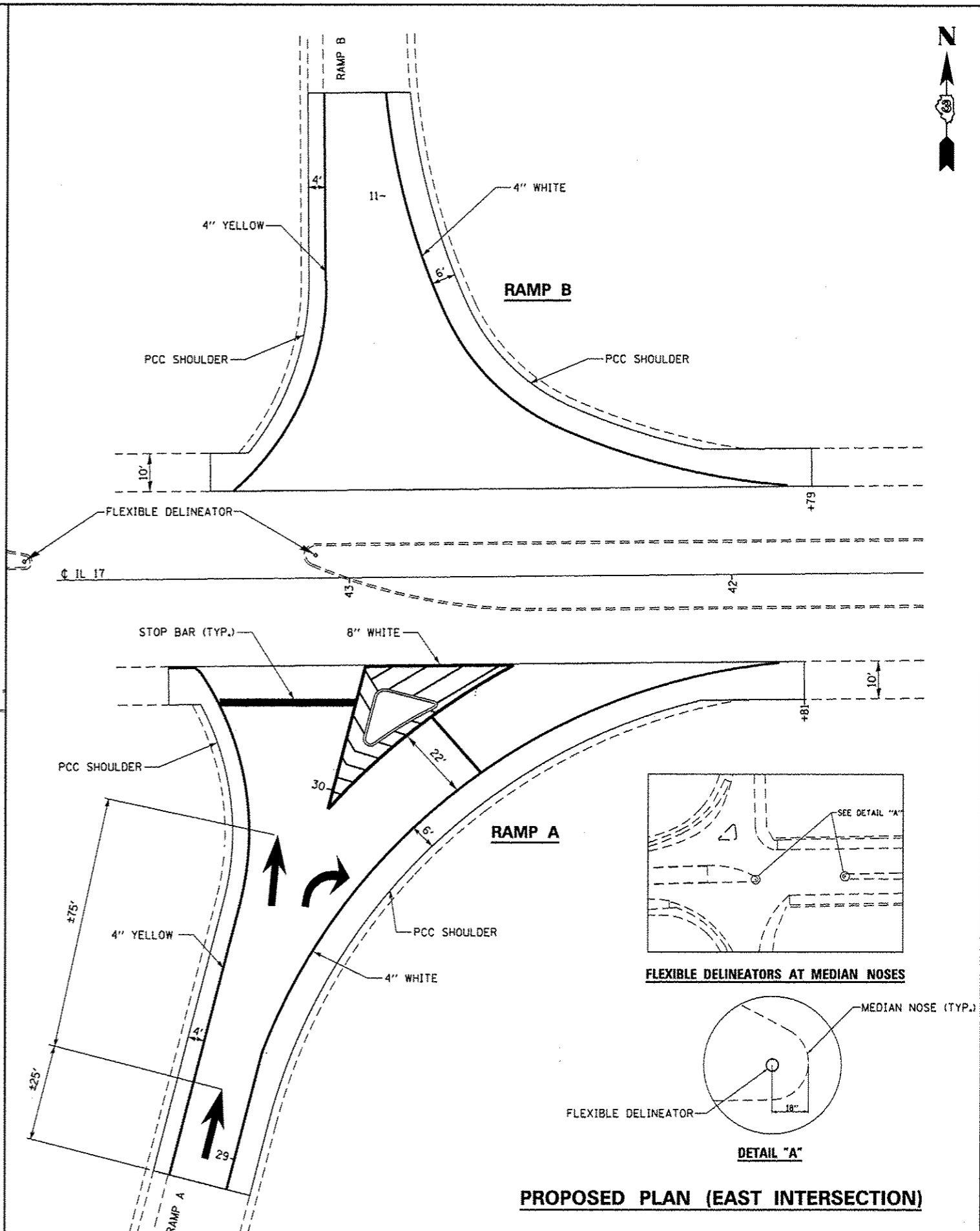
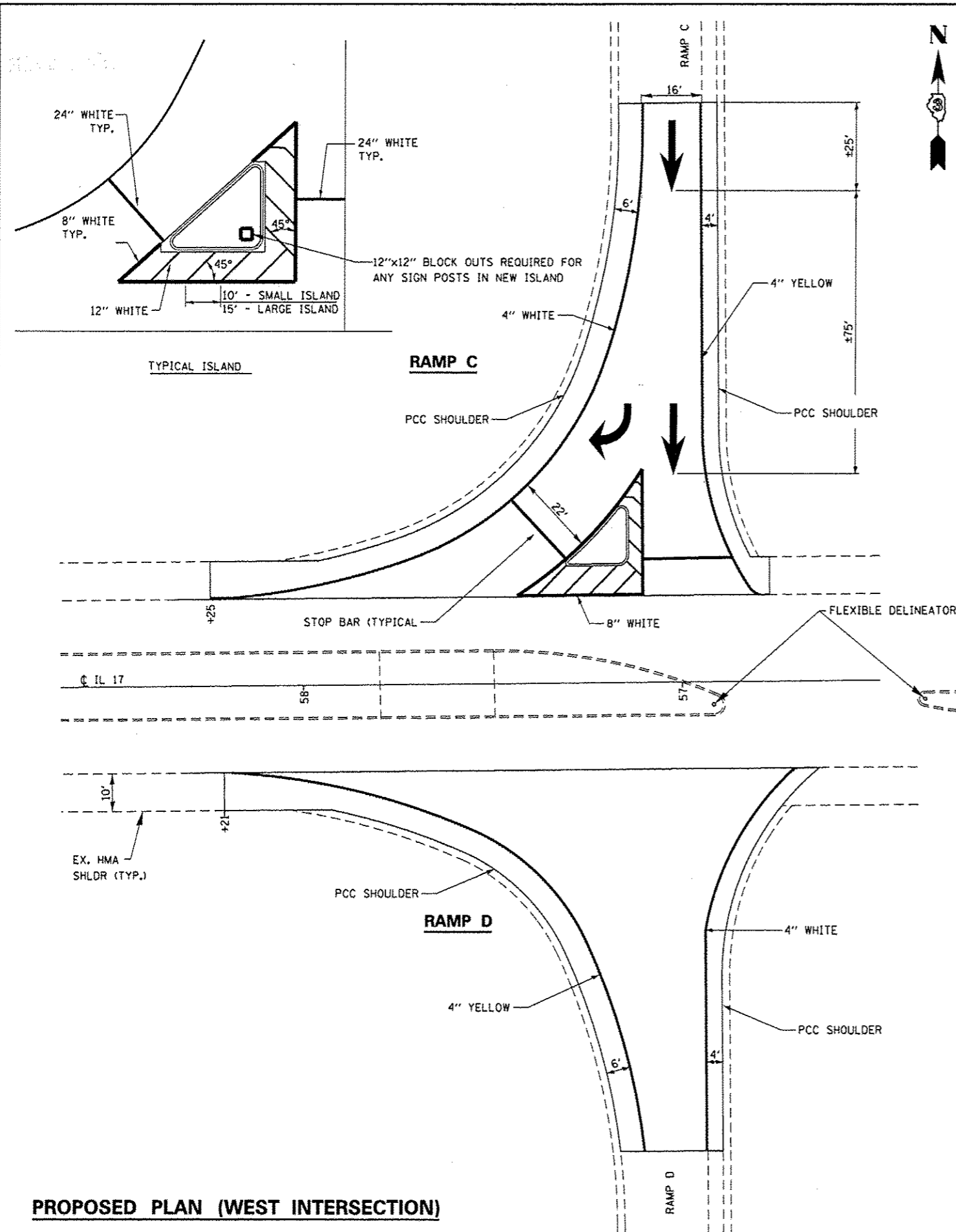
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| FILE NAME * | USER NAME = woodshankr1 | DESIGNED - HASAN AHMED | REVISED - 6/5/2014 H.A. |
| ci:\p\work\pwidot\woodshankr1\08388272\0366073-sht-details.dgn | | DRAWN - HASAN AHMED | REVISED - |
| | | CHECKED - RON WOODSHANK | REVISED - |
| *MODELNAME* | PLOT DATE = 8/26/2014 | DATE - 5/10/2014 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR FOR STAGE II TRAFFIC
RAMPS B & C CLOSED AT IL 17 INTERCHANGE

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|------------|---------------------------|-----------|
| 55 | 153-11K | LIVINGSTON | 10 | 8 |
| CONTRACT NO. 66073 | | | ILLINOIS FED. AID PROJECT | |



| | | | |
|---|---------------------------|-------------------------|-------------------------|
| FILE NAME * | USER NAME = woodshankr | DESIGNED - HASAN AHMED | REVISED - 6/5/2014 H.A. |
| c:\pwork\pvidat\woodshankr\148388272\366073-shd-details.dgn | 366073-shd-details.dgn | DRAWN - HASAN AHMED | REVISED - |
| | PLOT SCALE = 1/8" = 1'-0" | CHECKED - RON WOODSHANK | REVISED - |
| MODELNAME* | PLOT DATE = 8/26/2014 | DATE - 5/10/2014 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|------------|--------------|-----------|
| 55 | (53-1)K | LIVINGSTON | 10 | 10 |
| CONTRACT NO. 66D73 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |