

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES

[FAP ROUTE 594 (IL 203)

FAI ROUTE 255 (I-255)

FAU ROUTE 9166 (ST. CLAIR AVE.)

SECTION 580PS, 60-7PS, 33PS

PUMP STATION IMPROVEMENTS

MADISON AND ST. CLAIR COUNTIES

F.A.P./F.A.I./F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
594/255/9166	580PS/60-7PS/33PS	MADISON/ST. CLAIR ILLINOIS	8	1
CONTRACT NO. 76J38				

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 TRAFFIC CONTROL AND PROTECTION
- 5 PAINTING PLANS
- 6 PAINTING ELEVATIONS
- 7-8 DOOR REPLACEMENT

HIGHWAY STANDARDS

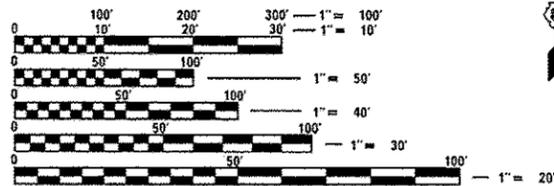
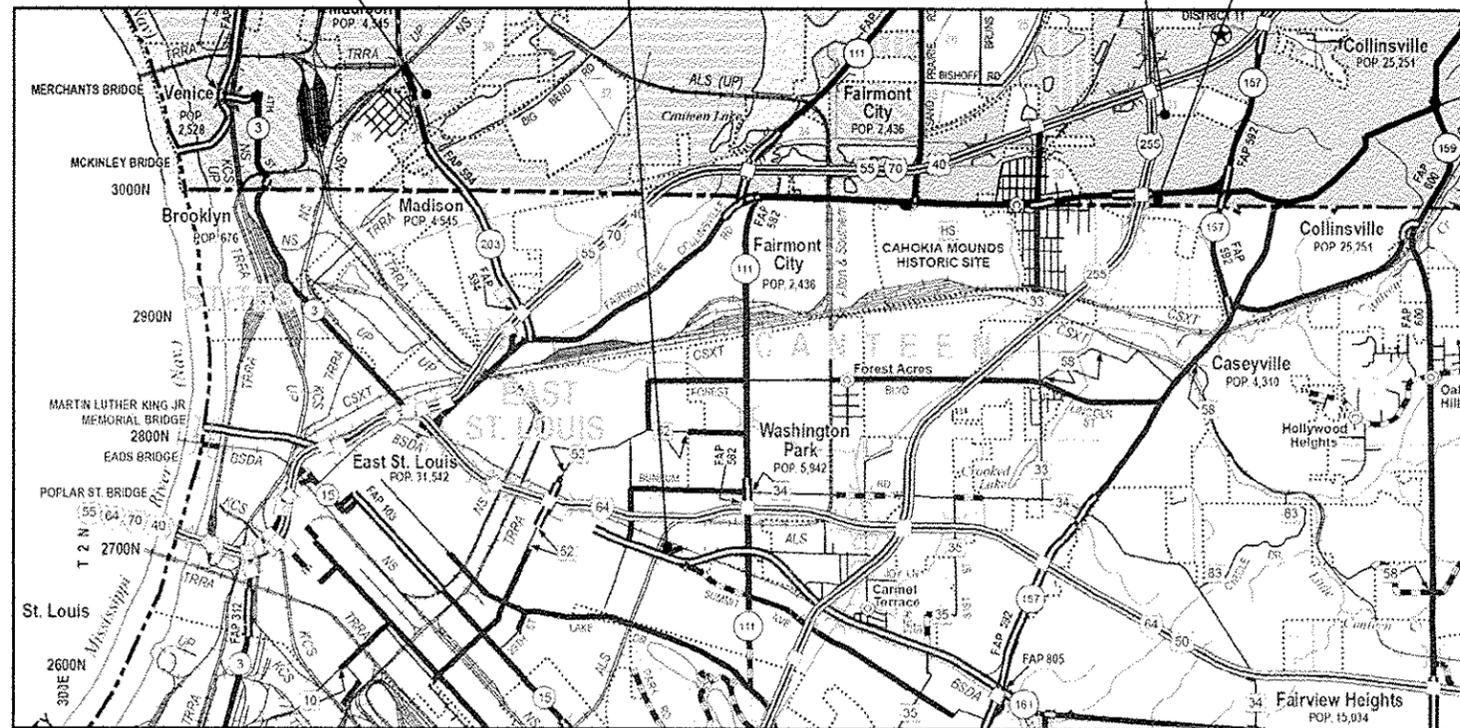
- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15 (4.5 M) TO 24 (600 MM) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15 (4.5 M) AWAY
- 701611-01 URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701801-06 LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-05 TRAFFIC CONTROL DEVICES
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)

D-98-065-16



McCAMBRIDGE PUMP STATION 42ND STREET PUMP STATION COLLINSVILLE #2 PUMP STATION COLLINSVILLE #1 PUMP STATION

C-98-012-16



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: HERVE GELIN 618-346-3179
PROJECT MANAGER: PHILLIP SAWYER 618-346-3275
SQUAD LEADER: MICHAEL PRESTON 618-346-3143
CONTRACT NO. 76J38

PLANS PREPARED BY:
E LIN ENGINEERING, LTD.
Consulting Engineers
Sedgwick, Illinois

GROSS LENGTH = N/A
NET LENGTH = N/A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 16, 2016
Jeffrey Z. Kanon REGION 5 ENGINEER
Aug 12, 2016
Maureen M. Addis PE, P.E. ENGINEER OF DESIGN AND ENVIRONMENT
Aug 12, 2016
Omar Osman PE, P.E. DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

GENERAL NOTES:

1. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD, AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION FOR THE PROJECT IN A MANNER AND SEQUENCE THAT ARE BASED ON ACCEPTED INDUSTRY STANDARDS THAT RECOGNIZE THE INTERACTION OF THE COMPONENTS THAT COMPRISE THE STRUCTURE, WITHOUT CAUSING DISTRESS, UNANTICIPATED MOVEMENTS OR IRREGULAR LOAD PATHS AS A RESULT OF THE CONSTRUCTION MEANS AND METHODS EMPLOYED.
4. ALL CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS AND SPECIAL PROVISIONS CAREFULLY, VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO AGREEING TO PERFORM THE WORK. FAILURE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
5. DRAWINGS ARE NOT TO SCALE.
6. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE EXISTING PUMP STATION BUILDING.
7. TRAFFIC CONTROL SHALL BE IN PLACE AND THE EXISTING PUMP STATION SHALL BE BYPASSED PRIOR TO PERFORMING ANY WORK IN THE EXISTING PUMP STATION.
8. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN A DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS. (E.G., MATH, FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLAT WORK, BLUEPRINT READING, SITE PLANS SITE WORK, TOOLS, ETC.) AND OSHA 10 HOUR CERTIFICATION), TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 616-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS
9. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (1-800-892-0123 OR 811) OR FOR NON-MEMBERS THE UTILITY COMPANY DIRECTLY.

GENERAL PAINT NOTES:

1. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL EXISTING STEEL AS MARKED IN THE PLANS SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING-SSPC-SPI0. ALL EXISTING STEEL AS MARKED IN THE PLANS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 3 - EM/EM/AC ALUMINUM EPOXY MASTIC FOR THE PRIMER AND INTERMEDIATE COATS AND WATERBORNE ACRYLIC FOR THE FINISH COAT. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES AS MARKED IN THE PLANS SHALL BE MUNSELL GLOSSY COLOR 5B 7/1 GRAY.
2. CLEANING AND PAINTING OF THE EXISTING DOOR FRAMES SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". EXISTING DOOR FRAME LEAD PAINT CLEANING RESIDUE SHALL BE CONTAINED AND DISPOSED OF AS REQUIRED BY THE SPECIAL PROVISION "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES". ALL EXISTING DOOR FRAMES SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING-SSPC-SPI0. ALL EXISTING DOOR FRAMES SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 3 - EM/EM/AC ALUMINUM EPOXY MASTIC FOR THE PRIMER AND INTERMEDIATE COATS AND WATERBORNE ACRYLIC FOR THE FINISH COAT. THE COLOR OF THE FINAL FINISH COAT SHALL BE MUNSELL GLOSSY COLOR 2.5YR 3/4 REDDISH BROWN.

COMMITMENTS:

NONE



USER NAME * LIN	DESIGNED - SSK	REVISED -
FILE NAME * #FILE#ABBREV#	DRAWN - RMH	REVISED -
PLOT SCALE * 20.0000' / in.	CHECKED - JRS	REVISED -
PLOT DATE * 6/13/2016	DATE - 02/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
PUMP STATION IMPROVEMENTS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P./F.A.I./F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
59A/255/9166	580PS/60-7PS/33PS	WADSWORTH/ST. CLAIR	8	2
				CONTRACT NO. 76J38
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0040	
				MADISON	ST. CLAIR
	100% STATE				
67100100	MOBILIZATION	L SUM	1	0.6	0.4
70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	L SUM	1	1	0
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	0
70107004	PAVEMENT MARKING BLACKOUT TAPE, 4"	FOOT	1435	1435	0
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	479	479	0
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	1	0	1
X0335700	PUMP STATION GENERAL WORK	LSUM	1	0.7	0.3

7

SYMBOLS

-  ARROW BOARD
-  CHANNELIZER CONE
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  WORK AREA
-  BARRICADE OR DRUM WITH FLASHING LIGHT
-  TYPE III BARRICADE WITH FLASHING LIGHTS

NOTES:

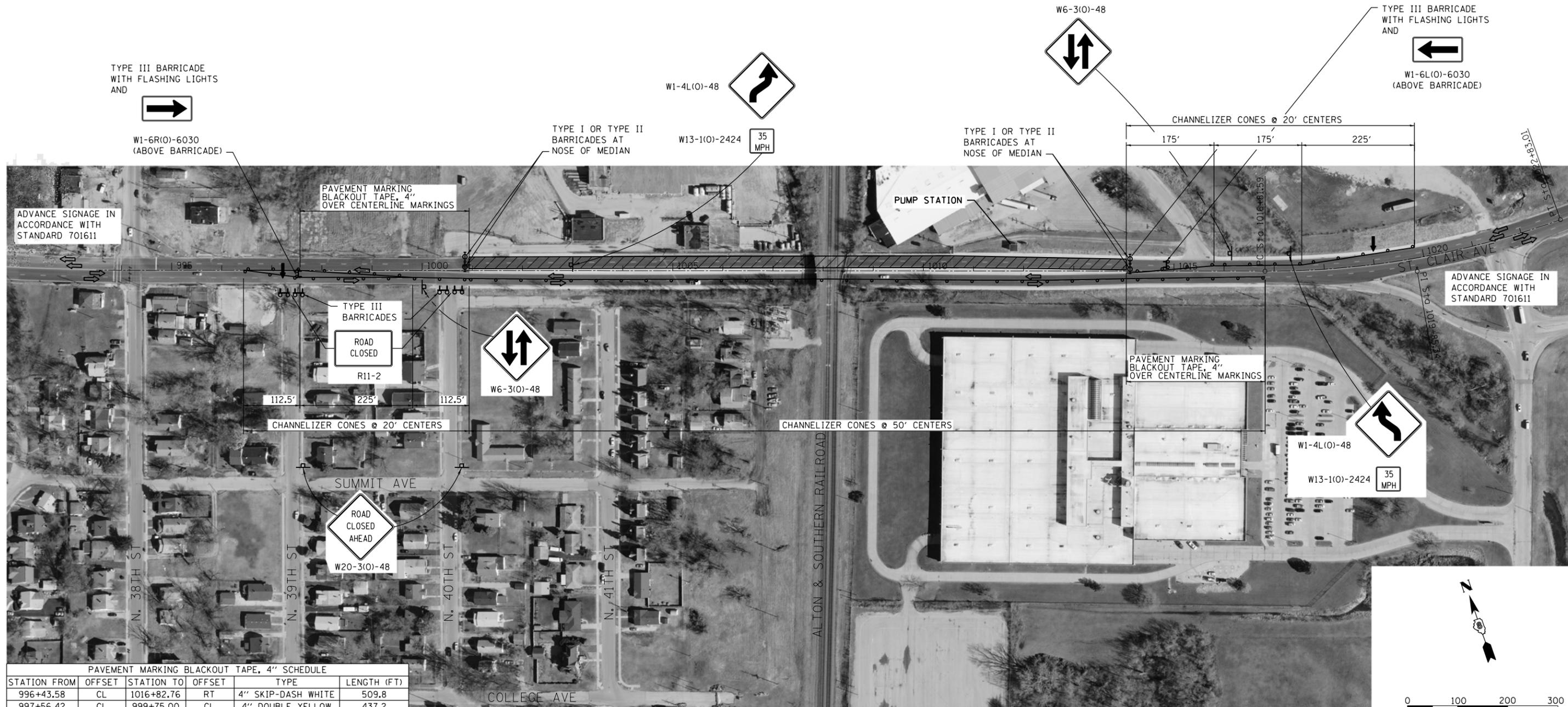
STATIONING BASED OFF OF EXISTING PLANS AND HAS NOT BEEN FIELD VERIFIED.

ALL VEHICULAR TRAFFIC CONTROL AND PROTECTION SHOWN SHALL BE PAID FOR AS "TRAFFIC CONTROL AND PROTECTION, STANDARD 701611".

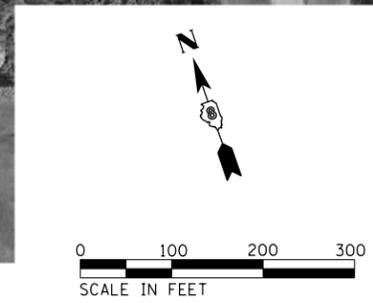
CLOSE PEDESTRIAN ACCESS TO THE NORTH SIDEWALK ACCORDING TO HIGHWAY STANDARD 701801.

IN THE EVENT OF DAMAGE TO THE EXISTING PAVEMENTS MARKINGS, THE DAMAGED PAVEMENT MARKINGS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.

EXIST. CURVE A1
 PI STA. = 1022+59.24
 $\Delta = 36^\circ 48' 01''$ (LT)
 $D = 3^\circ 17' 58''$
 $R = 1,736.48'$
 $T = 577.66'$
 $L = 1,115.32'$
 $E = 95.56'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 1016+81.59$
 $P.T. \text{ STA.} = 1027+96.91$



PAVEMENT MARKING BLACKOUT TAPE, 4" SCHEDULE					
STATION FROM	OFFSET	STATION TO	OFFSET	TYPE	LENGTH (FT)
996+43.58	CL	1016+82.76	RT	4" SKIP-DASH WHITE	509.8
997+56.42	CL	999+75.00	CL	4" DOUBLE YELLOW	437.2
1014+04.88	CL	1015+97.83	CL	4" DOUBLE YELLOW	385.9
1015+79.87	LT	1019+85.08	LT	4" SKIP-DASH WHITE	101.3
TOTAL					1,434.2
ROUNDED					1,435



LE LIN ENGINEERING, LTD.
 Consulting Engineers
 Springfield, Illinois

USER NAME = Lin
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 PLOT DATE = 6/13/2016

DESIGNED -
 DRAWN -
 CHECKED -
 DATE - 02/2016

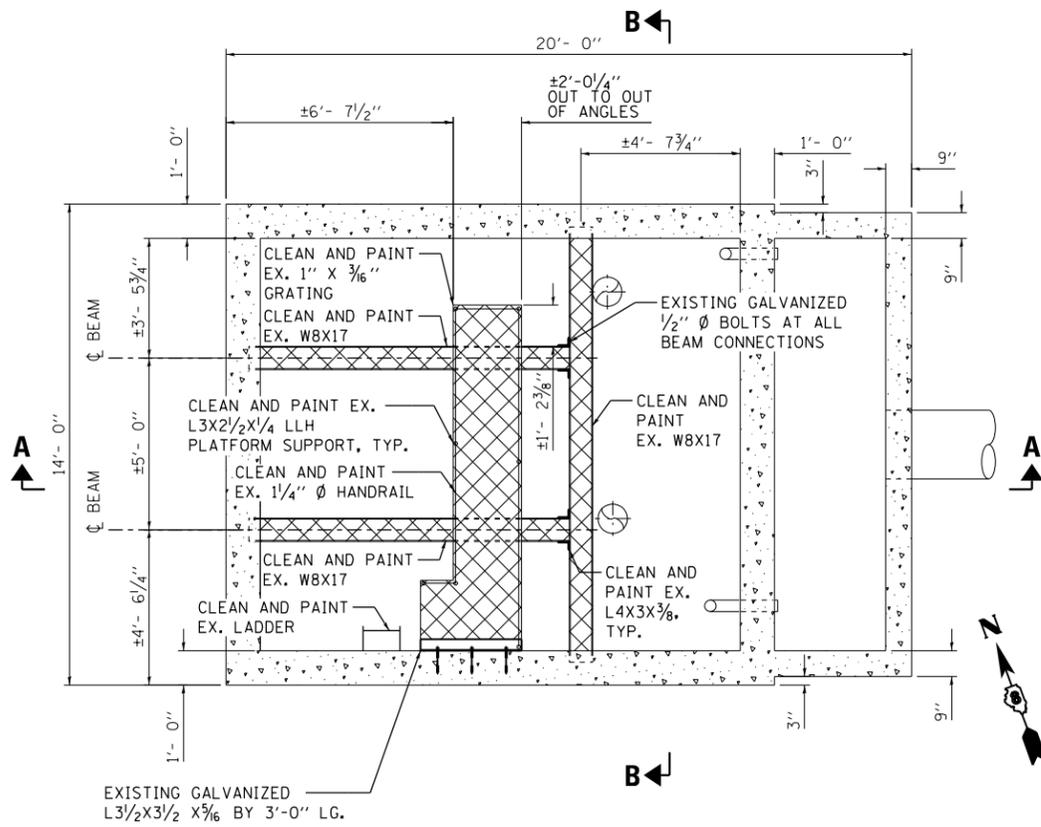
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

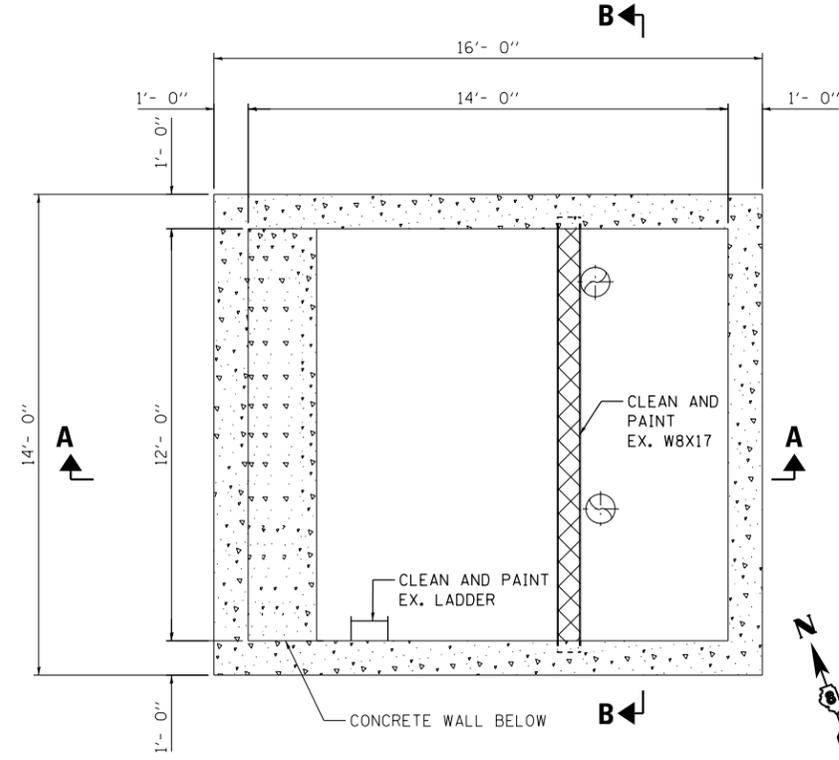
**TRAFFIC CONTROL AND PROTECTION
 42ND STREET PUMP STATION**

SCALE: 1"=100' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P./F.A.I./F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
594/255/9166	580PS/60-TPS/33PS	MADISON/ST. CLAIR	8	4
CONTRACT NO. 76J38				
ILLINOIS FED. AID PROJECT				

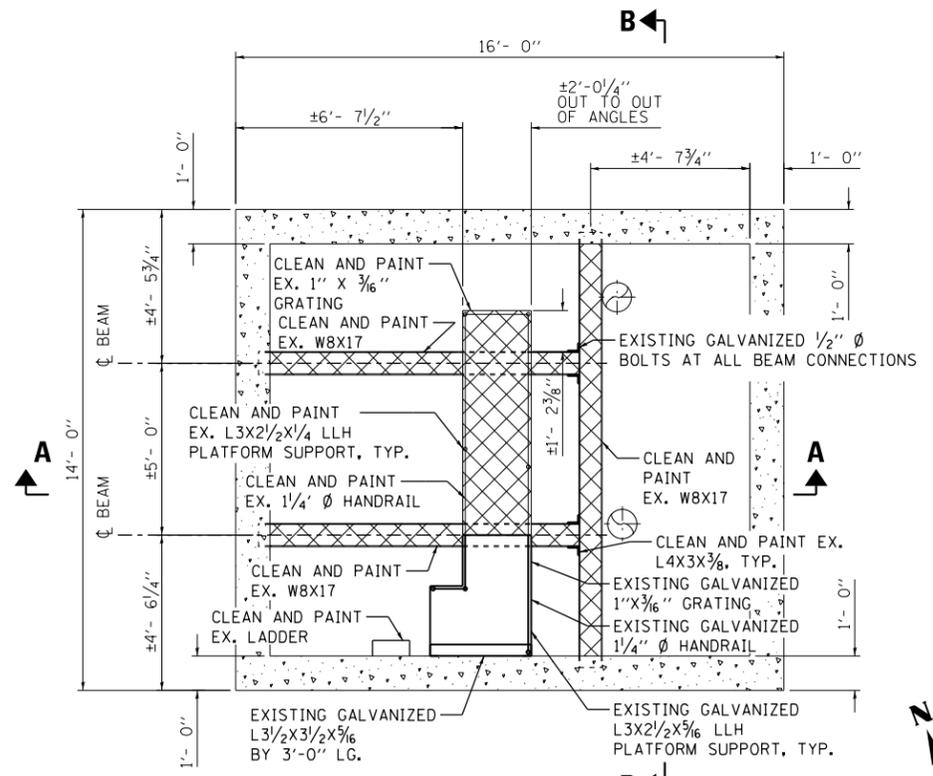


PLAN - ELEV. 171.25
SCALE: 3/8"=1'-0"

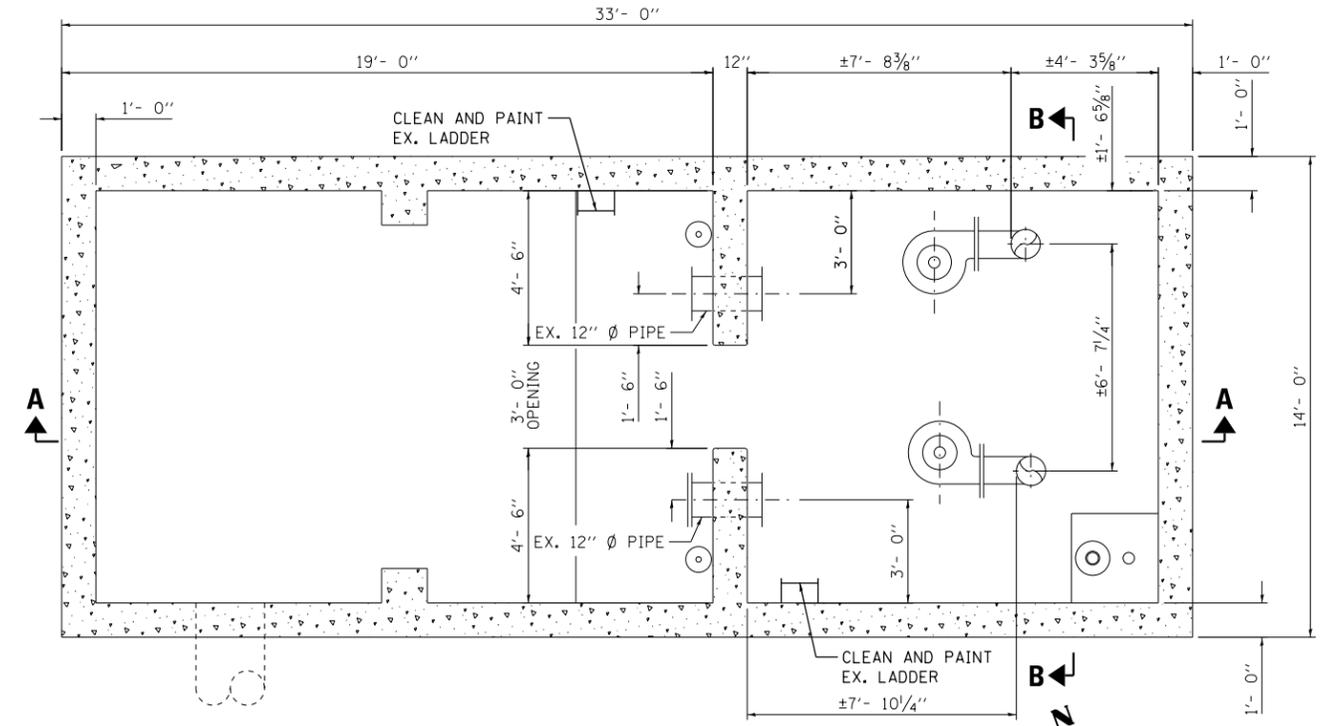


PLAN - ELEV. 158.38
SCALE: 3/8"=1'-0"

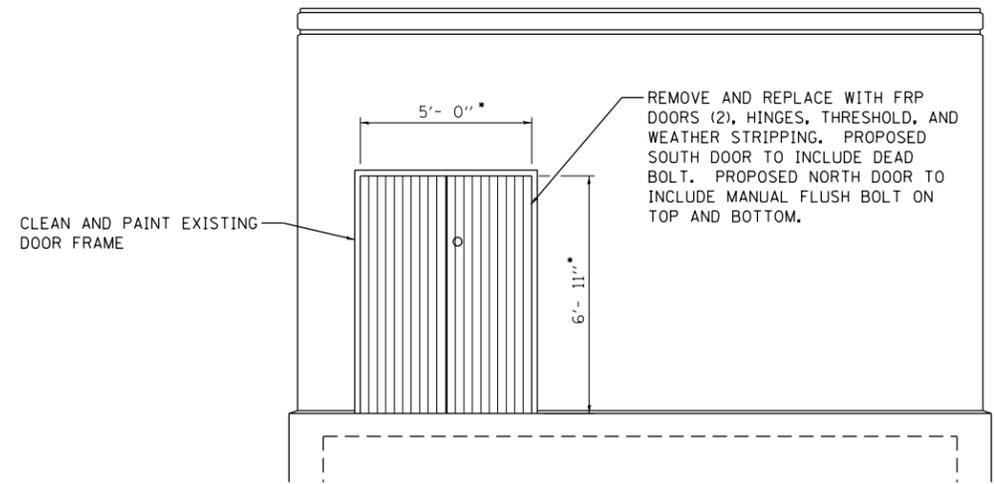
- NOTES:
- 1) TRAFFIC CONTROL SHALL BE IN PLACE AND THE EXISTING PUMP STATION SHALL BE BYPASSED PRIOR TO PERFORMING WORK IN THE EXISTING PUMP STATION.
 - 2) GALVANIZED STEEL SURFACES SHALL BE CLEANED AND PAINTED AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING EXISTING STEEL STRUCTURES."
 - 3) EXISTING STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING EXISTING STEEL STRUCTURES."
 - 4) THE PRICE OF ALL CLEANING AND PAINTING EXISTING STRUCTURAL STEEL SHALL BE INCLUDED IN "PUMP STATION GENERAL WORK."
 - 5) DRAINAGE STRUCTURES TO BE CLEANED AFTER COMPLETION OF ALL CLEANING AND PAINTING.
 - 6) CROSS HATCHED AREA INDICATES CLEANING AND PAINTING EXISTING STEEL STRUCTURES.



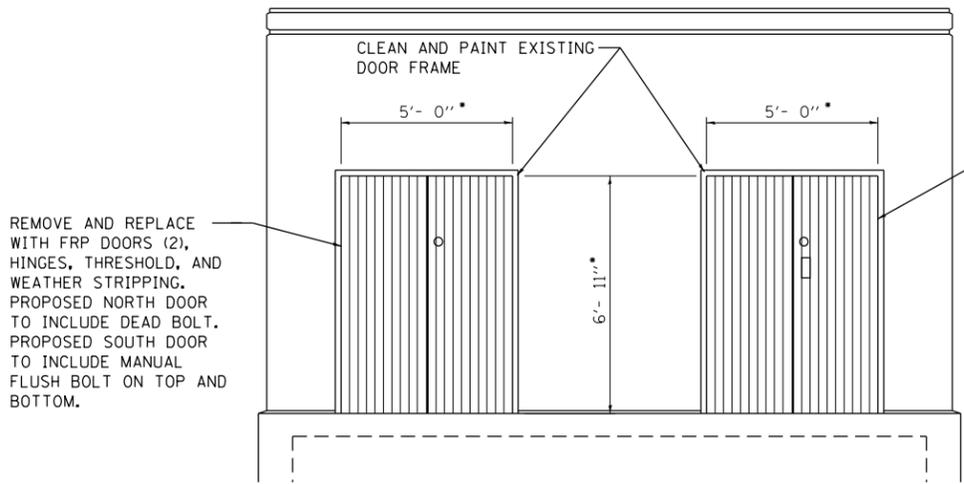
PLAN - ELEV. 164.81
SCALE: 3/8"=1'-0"



PLAN - ELEV. 145.50
SCALE: 3/8"=1'-0"



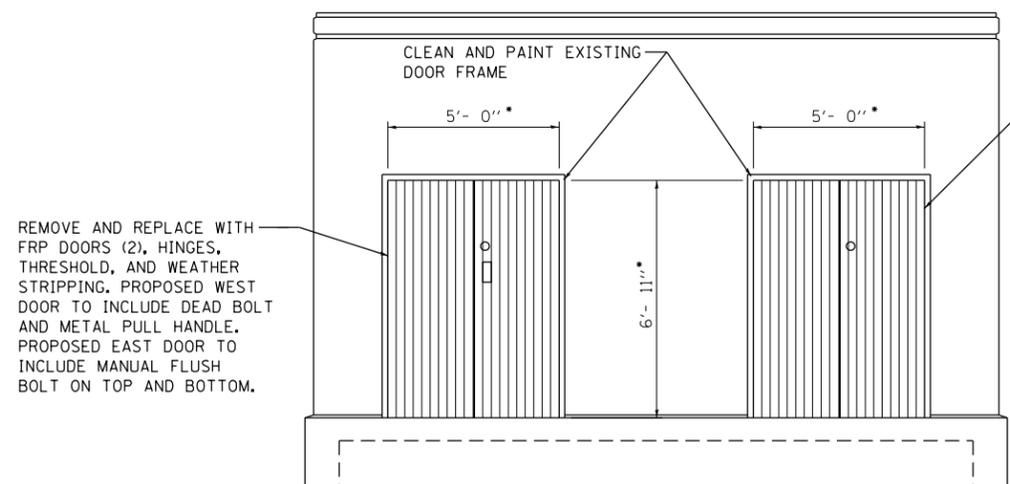
WEST ELEVATION
NEW DOORS COLLINSVILLE #1 PUMP STATION
 SCALE: 3/8"=1'-0"



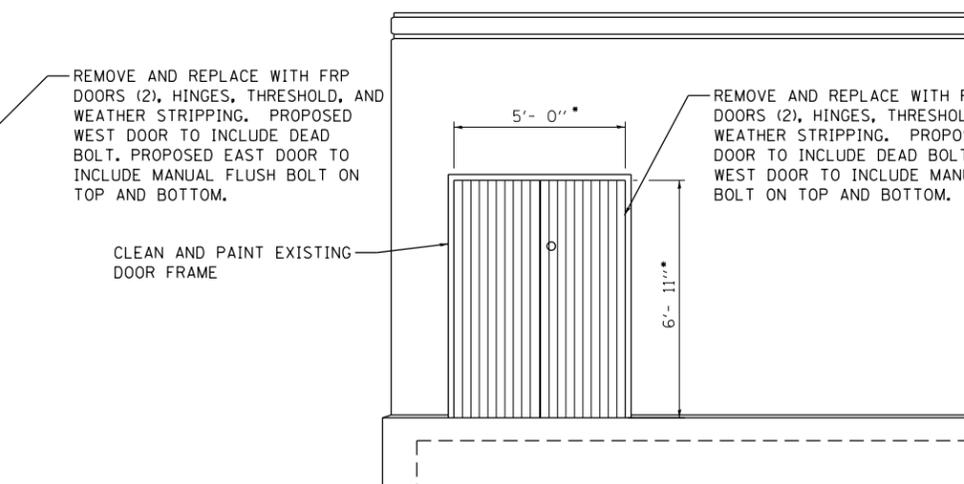
EAST ELEVATION
NEW DOORS COLLINSVILLE #1 PUMP STATION
 SCALE: 3/8"=1'-0"

REMOVE AND REPLACE WITH FRP DOORS (2), HINGES, THRESHOLD, AND WEATHER STRIPPING. PROPOSED NORTH DOOR TO INCLUDE DEAD BOLT AND METAL PULL HANDLE. PROPOSED SOUTH DOOR TO INCLUDE MANUAL FLUSH BOLT ON TOP AND BOTTOM.

- NOTES:
- 1) ALL COLLINSVILLE PUMP STATION (#1 AND #2) REPLACEMENT DEAD BOLTS TO BE KEYED THE SAME.
 - 2) ALL COLLINSVILLE PUMP STATION (#1 AND #2) REPLACEMENT DOORS TO BE COLORED THE SAME AS THE PAINTED FRAMES.
 - 3) EXISTING DOOR FRAMES SHALL BE CLEANED AND PAINTED AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING EXISTING STEEL STRUCTURES."
 - 4) EXISTING DOOR FRAME LEAD PAINT CLEANING RESIDUE SHALL BE CONTAINED AND DISPOSED OF AS REQUIRED BY THE SPECIAL PROVISION "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES."
 - 5) FRP DOORS AND ASSOCIATED HARDWARE SHALL BE PROCURED AS REQUIRED BY THE SPECIAL PROVISIONS "FIBERGLASS DOORS" AND "DOOR HARDWARE" RESPECTIVELY.
 - 6) THE PRICE OF ALL CLEANING AND PAINTING EXISTING STEEL STRUCTURES, LEAD PAINT CONTAINMENT AND DISPOSAL, FRP DOORS, AND DOOR HARDWARE SHALL BE INCLUDED IN "PUMP STATION GENERAL WORK."



NORTH ELEVATION
NEW DOORS COLLINSVILLE #2 PUMP STATION
 SCALE: 3/8"=1'-0"

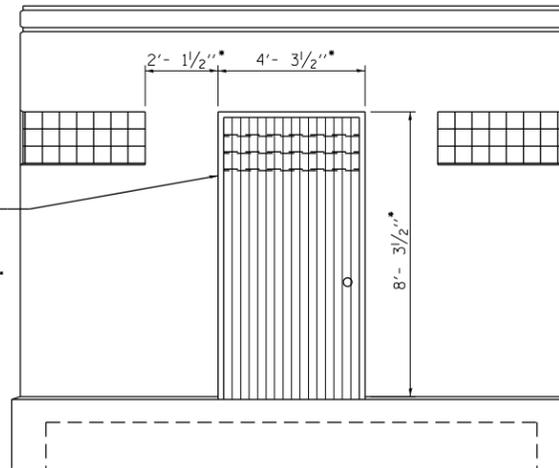


SOUTH ELEVATION
NEW DOORS COLLINSVILLE #2 PUMP STATION
 SCALE: 3/8"=1'-0"

• DIMENSIONS REFER TO DOOR SIZE WITHOUT FRAME.

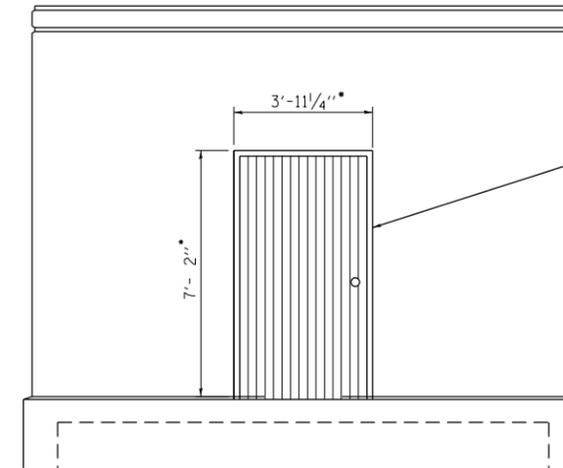
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PLOT DATE = 6/13/2016	DATE - 02/2016	REVISED -

REMOVE AND REPLACE DOOR, FRAME, AND VENT WITH ALUMINUM DOOR (NO VENT), FRAME, HINGES, THRESHOLD, AND WEATHER STRIPPING. PROPOSED DOOR TO INCLUDE SINGLE LOCKING INTERCONNECTED KNOB, LOCKABLE LONG DOUBLE HINGE HASP, AND LOCKABLE SLIDE BOLT.



WEST ELEVATION
NEW DOOR 42ND STREET PUMP STATION
 SCALE: 3/8"=1'-0"

REMOVE AND REPLACE DOOR, FRAME, AND VENT WITH ALUMINUM DOOR (NO VENT), FRAME, HINGES, THRESHOLD, AND WEATHER STRIPPING. PROPOSED DOOR TO INCLUDE SINGLE LOCKING INTERCONNECTED KNOB, LOCKABLE LONG DOUBLE HINGE HASP, AND LOCKABLE SLIDE BOLT.



WEST ELEVATION
NEW DOOR McCAMBRIDGE PUMP STATION
 SCALE: 3/8"=1'-0"

• DIMENSIONS REFER TO CONCRETE OPENING.

NOTES:

- 1) ALUMINUM DOORS, FRAMES, AND ASSOCIATED HARDWARE SHALL BE PROCURED AS REQUIRED BY THE SPECIAL PROVISIONS "ALUMINUM DOORS AND FRAMES" AND "DOOR HARDWARE" RESPECTIVELY.
- 2) THE PRICE OF ALL ALUMINUM DOORS, FRAMES, AND HARDWARE SHALL BE INCLUDED IN "PUMP STATION GENERAL WORK."

USER NAME = Lin	DESIGNED - SSK	REVISED -
FILE NAME = \$FILEABBREV\$	DRAWN - RMH	REVISED -
PLOT SCALE = 3/8" = 1'-0"	CHECKED - JRS	REVISED -
PLOT DATE = 6/13/2016	DATE - 02/2016	REVISED -

F.A.P./F.A.I./F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
594/255/9166	580PS/60-TPS/33PS	MADISON/ST. CLAIR	8	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76J38	