

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
 FOR LIST OF HIGHWAY STANDARDS, SEE SHEET 2

**TRAFFIC DATA**

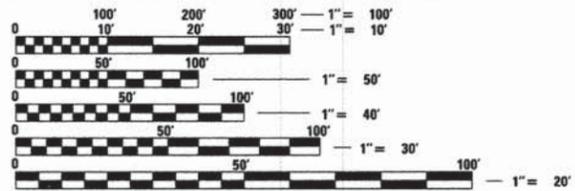
ADT:  
 JESSIE ROAD: 400 VPD (2012) 750 VPD (2040)

**JESSIE ROAD POSTED SPEED DESIGN SPEED**  
 PROJECT LIMITS 25 MPH (EXISTING/ PROPOSED) 25 MPH

**DESIGN DESIGNATION**

M.S. 4180 (JESSIE ROAD) - LOCAL STREET (URBAN)

**PROJECT LOCATED IN THE VILLAGE OF LAKE IN THE HILLS**



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.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811**

**STRUCTURE INFORMATION:**  
 EXISTING SN 056-6400  
 THIS EXISTING STRUCTURE WAS BUILT IN 1950 BY THE VILLAGE OF LAKE IN THE HILLS AS A TRIPLE 84" CORRUGATED METAL PIPE CULVERT. THERE ARE NO END SECTIONS OR HEADWALLS. ROAD TO BE CLOSED DURING CONSTRUCTION. TRAFFIC TO BE MAINTAINED WITH TEMPORARY DETOUR ROUTE DURING CONSTRUCTION. THE STRUCTURE IS TO BE REMOVED AS SHOWN WITH NO SALVAGE.

**PROFESSIONAL ENGINEER'S SIGN & SEAL**  
 EXCLUDING SHEET(S): S-1 TO S-5

KEVIN M. ARFT, P.E.  
 EXPIRES: 11-30-15

**STRUCTURAL ENGINEER'S SIGN & SEAL**  
 FOR STRUCTURAL SHEET(S): S-1 TO S-5

ROBERT G. DAVIES, P.E., S.E.  
 EXPIRES: 11-30-14

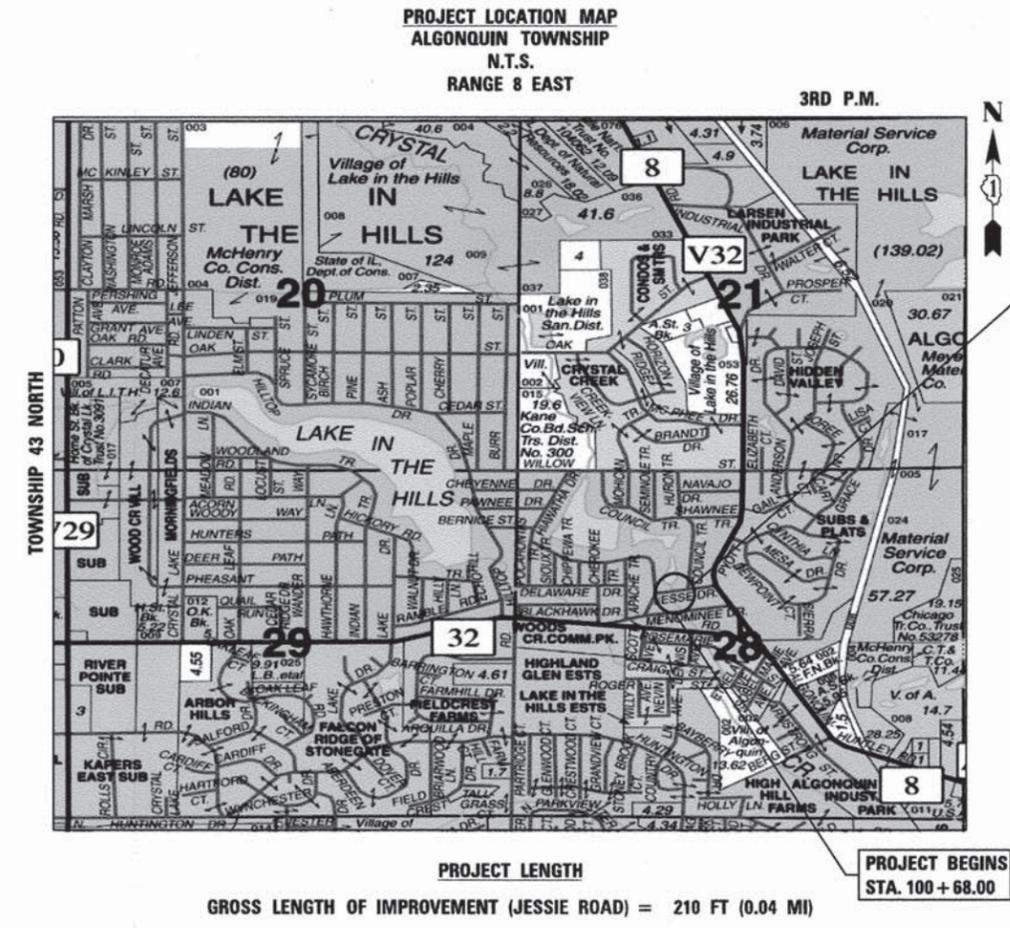
**PROJECT ENGINEER: K. ARFT**  
**PROJECT MANAGER: R. DAVIES**  
**CONTRACT NO. 63877**

COMPANY NAME: #PROJECT CONTACT # CLIENT # DATE PLOTTED: 10/11/2013 11:05:58 AM FILE NAME: #PLOT DRIVER: #PEN TABLE:

STATE OF ILLINOIS 1-17-14 LETTING ITEM 098  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED FEDERAL-AID HIGHWAY**  
**M.S. 4180 (JESSIE ROAD OVER CRYSTAL CREEK)**  
**CULVERT REPLACEMENT**  
**SECTION: 11-00035-00-BR**  
**PROJECT: BROS-9003(889)**  
**MCHENRY COUNTY**  
**JOB: C-91-154-12**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4180	11-00035-00-BR	MCHENRY	21	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	63877	



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

APPROVED Oct-18 2013  
*Karl Mullen*  
 VILLAGE OF LAKE IN THE HILLS

PASSED OCTOBER 31 2013  
*C. J. Holt* C.J. HOLT  
 DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID  
 BASED ON LIMITED REVIEW November 1 2013  
*John F. ...*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
 Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

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**STATE STANDARDS**

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631031-12	TRAFFIC BARRIER TERMINAL, TYPE 6
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635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-03	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
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729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-04	TYPICAL PAVEMENT MARKINGS
BLR 23-4	TRAFFIC BARRIER TERMINAL, TYPE 1

**CONTACTS**

COMED	NORA FERNANDEZ	(815) 490-7260
NICOR	CONSTANCE LANE	(630) 388-3830
AT&T	HECTOR SUAREZ	(847) 888-6864
COMCAST	TED WYMAN	(630) 600-6349
VILLAGE OF LAKE IN THE HILLS	FRED MULLARD	(847) 860-7500
McHENRY COUNTY DIVISION OF TRANSPORTATION	RAY BEETS	(815) 334-4960
U.S. ARMY CORPS OF ENGINEERS	SOREN HALL	(312) 846-5532
McHENRY - LAKE COUNTY SOIL & WATER CONSERVATION DISTRICT	ED WESKERNA	(815) 338-0099
LAKE IN THE HILLS SANITARY DISTRICT	RICK FORNER	(847) 658-5122

**STANDARD ABBREVIATIONS**

B-B	- BACK TO BACK OF CURB
B.C.	- BACK OF CURB
B.O.C.	- BACK OF CURB
B.S.L.	- BUILDING SETBACK LINE
C.B.	- STORM CATCH BASIN
C.E.	- COMMONWEALTH EDISON CO.
D.E.	- DRAINAGE EASEMENT
E-E	- EDGE TO EDGE OF PAVEMENT
E.O.P.	- EDGE OF PAVEMENT
E.O.S.	- EDGE OF SHOULDER
E.P.	- EDGE OF PAVEMENT
E.S.	- EDGE OF SHOULDER
F.E.S.	- FLARED END SECTION
I.B.T.	- ILLINOIS BELL TELEPHONE CO.
L.E.	- LANDSCAPE EASEMENT
M.H.	- MANHOLE (TYPE SPECIFIED ON PLANS)
R.O.W.	- RIGHT OF WAY
T.B.F.	- TRENCH BACKFILL
T.C.	- TOP OF CURB
T.C.E.	- TEMPORARY CONSTRUCTION EASEMENT
T.O.B.	- TOP OF BERM
T.O.C.	- TOP OF CURB
U.E.	- UTILITY EASEMENT
U.O.N.	- UNLESS OTHERWISE NOTED

COMPANY NAME: Kevin M. Drift  
 PROJECT CONTACT: Village of Lake in the Hills  
 CLIENT: 10/17/2013 10:55:58 AM  
 DATE PLOTTED: 86120455-gen-01.dgn  
 FILE NAME: pdf.DET-TIFF.plt  
 PLOT DRIVER: standard-trans.tbl  
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PLOT DATE = 10/17/2013	DATE - 10/17/13	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS AND LIST OF STATE STANDARDS  
JESSIE ROAD OVER CRYSTAL CREEK**

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

M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4180	11-00035-00-BR	McHENRY	21	2
CONTRACT NO. 63877				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

**GENERAL NOTES**

ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2012

ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.

PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT THEM TO THE ENGINEER BEFORE DOING ANY WORK. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT. FORTY EIGHT HOURS BEFORE STARTING EXCAVATION THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED.

THE CONTRACTOR SHALL CONTACT THE VILLAGE OF LAKE IN THE HILLS AND THE McHENRY COUNTY DIVISION OF TRANSPORTATION AT LEAST 72 HOURS IN ADVANCE OF BEGINNING ANY WORK.

THE CONTRACTOR SHALL CONTACT THE ARMY CORPS OF ENGINEERS AND THE McHENRY-LAKE SOIL AND WATER CONSERVATION DISTRICT TWO (2) WEEKS PRIOR TO CONSTRUCTION. SEE EROSION CONTROL PLANS AND BRIDGE PLANS.

OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.

THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.1 GALLONS / SQ YD.

SAW CUTTING OF PAVEMENTS, SIDEWALK, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE ITEM REMOVED.

THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATION, UNSUITABLE AND UNUSABLE MATERIALS OFFSITE AND AT AN APPROVED LOCATION IN A MANNER THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED. THIS WORK IS CONSIDERED INCLUDED IN THE COST OF THE REMOVAL ITEMS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY REQUIRED VILLAGE-OWNED UTILITY INSPECTIONS WITH THE VILLAGE OF LAKE IN THE HILLS.

SPECIAL ATTENTION IS DRAWN TO THE FACT THAT ARTICLE 105.06 OF THE STANDARD SPECIFICATIONS REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT, SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVE CONTROL OF ALL WORK AS THE AGENT OF THE CONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 107.07.

THE ENGINEER AND VILLAGE ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

THE INDISCRIMINATE USE OF FIRE HYDRANTS, EXISTING STREAMS, CREEKS, WETLANDS, OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE CONTRACTOR PRIOR TO THE USE OF THE WATER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.

THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENTS DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST.

THE THICKNESSES OF HOT MIX ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE HOT MIX ASPHALT MIXTURES ARE TO BE PLACED.

WHERE PROPOSED WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

THE CONTRACTOR WILL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH BARRICADE USED OR BARRELS TO BE DOUBLE WEIGHTED. (TYPE I OR TYPE II ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.) ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF EIGHT (8) SANDBAGS PER BARRICADE.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE VILLAGE OF LAKE IN THE HILLS. THE CONTRACTOR SHALL RESTORE THE FIELD OFFICE SITE TO LIKE ORIGINAL CONDITION.

THE CONTRACTOR SHALL ENSURE THAT ALL STORM SEWER MANHOLES, SANITARY SEWER MANHOLES, WATERMAIN VALVES, AND FIRE HYDRANTS REMAIN READILY ACCESSIBLE TO THE VILLAGE AND THE LAKE IN THE HILLS SANITARY DISTRICT AT ALL TIMES.

THE WORK UNDER THIS CONTRACT SHALL CONFORM TO ALL REGULATIONS GIVEN IN THE ARMY CORPS OF ENGINEERS PERMIT ISSUED FOR THE PROJECT AND THE IDOT FLOODWAY PERMIT ISSUED FOR THE PROJECT.

THE CONTRACTOR SHALL NOT ALLOW CONCRETE OR OTHER CONSTRUCTION DEBRIS TO FALL INTO THE CREEK DURING DEMOLITION OR CONSTRUCTION.

EXISTING SIGNS IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED, STORED, AND RE-INSTALLED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A LOG OF EXISTING SIGNS TO THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)."

"POROUS GRANULAR BACKFILL", "AGGREGATE SUBGRADE IMPROVEMENT" AND ADDITIONAL "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL" NOT INCLUDED IN THE EARTHWORK SCHEDULE HAVE BEEN ADDED FOR USE IF UNSUITABLE MATERIAL IS ENCOUNTERED IN THE FIELD, AS DETERMINED BY THE ENGINEER. IF UNSUITABLE AND/OR UNSTABLE MATERIALS IS NOT ENCOUNTERED, THEN THE QUANTITIES SHALL BE DEDUCTED AND NO COMPENSATION WILL BE DUE TO THE CONTRACTOR. SEE GENERAL NOTES IN CULVERT PLANS FOR ADDITIONAL INFORMATION.

ADDITIONAL QUANTITIES:  
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL: 100 CU YD  
AGGREGATE SUBGRADE IMPROVEMENT: 44 CU YD  
POROUS GRANULAR BACKFILL: 56 CU YD

EXISTING FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE MAINTAINED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL."

THIS PROJECT MAY REQUIRE UP TO 4 CHANGEABLE MESSAGE SIGNS.

THE EXISTING CULVERT PLANS ARE NOT AVAILABLE. THE VILLAGE OF LAKE IN THE HILLS IS THE OWNER OF RECORD FOR THE CULVERT. THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THE CULVERT.

SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.

THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH HIS CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

ALL SIGNS SHALL BE INSTALLED OR RELOCATED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED. COST FOR THIS WORK SHALL BE INCLUDED IN THE ITEM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)."

ALL REMOVED SIGNS SHALL BE RETURNED TO THE VILLAGE OF LAKE IN THE HILLS AT 9010 HALIGUS ROAD, LAKE IN THE HILLS, IL 60156. COST FOR THIS WORK SHALL BE INCLUDED IN THE ITEM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)."

LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE ITEM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)."

**TRAFFIC CONTROL**

SEE TEMPORARY DETOUR PLAN FOR GENERAL NOTES CONCERNING TRAFFIC CONTROL AND PROTECTION.

**EROSION CONTROL**

SEE EROSION CONTROL PLANS FOR GENERAL NOTES CONCERNING EROSION CONTROL.

IN ADDITION TO THE REQUIREMENTS OF SECTION 107.01 OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF EXCAVATED MATERIALS FROM THE PROJECT SITE. THE CONTRACTOR WILL MEET ALL REQUIREMENTS SET FORTH BY THE IEPA AND PUBLIC ACT 96-1416 IN REGARDS TO CLEAN CONSTRUCTION AND DEMOLITION DEBRIS WHICH MAY INCLUDE, BUT NOT LIMITED TO, FIELD AND LABORATORY ANALYSES, CERTIFICATION FROM A LICENSED PROFESSIONAL ENGINEER, DUMPING FEES AND DOCUMENTATION. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE CONTRACT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

**SUGGESTED SEQUENCE OF CONSTRUCTION**

1. POST DETOUR AND CLOSE ROAD TO THROUGH TRAFFIC.
2. INSTALL EROSION CONTROL MEASURES INDICATED ON EROSION CONTROLS PLANS AND DETAILS.
3. INSTALL METHOD OF WATER DIVERSION. (FLOW DIRECTED THROUGH FAR WEST CMP.)
4. REMOVE PAVEMENT AND THE TWO (2) EAST EXISTING 84" Ø CMP CULVERTS.
5. PLACE EAST PRECAST CONCRETE BOX CULVERT CELL.
6. CONSTRUCT EAST PORTION OF CAST IN PLACE CONCRETE END SECTIONS.
7. RE-SET METHOD OF WATER DIVERSION TO DIRECT FLOW THROUGH NEWLY SET EAST PRECAST CONCRETE CULVERT CELL.
8. REMOVE THE REMAINING CMP AND PERFORM 5. & 6. FOR WEST CELL.
9. INSTALL PROPOSED STONE RIPRAP.
10. PERFORM APPROACH ROADWAY IMPROVEMENTS AND FINAL RESTORATION. --

**SUMMARY OF PHASE I COMMITMENTS**

1. DETOUR COORDINATION WITH McHENRY COUNTY DIVISION OF TRANSPORTATION

COMPANY NAME: Kuyts M. Jr. & Co.  
PROJECT CONTACT: Village of Lake in the Hills  
CLIENT: Village of Lake in the Hills  
DATE PLOTTED: 11/1/2013 11:50:09 AM  
FILE NAME: 86120455-gsm-01.dgn  
PLOT DRIVER: pdf.plt  
PEN TABLE: standard-iron.tbl

 HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME = whood	DESIGNED - KMA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES JESSIE ROAD OVER CRYSTAL CREEK			M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 86120455-gsm-01.dgn	DRAWN - WJH	REVISED -		4180	11-00035-00-BR	McHENRY	21	3			
	PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -		CONTRACT NO. 63877							
	PLOT DATE = 11/1/2013	DATE - 11/1/13	REVISED -		SCALE: N.T.S.	SHEET NO. OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT

SUMMARY OF QUANTITIES				URBAN	CONSTRUCTION TYPE CODE	
PAY ITEM NUMBER	PAY ITEMS	UNITS	TOTAL QUANTITY	ROADWAY 80% FEDERAL 20% LOCAL 0004	BRIDGE 80% FEDERAL 20% LOCAL 0011	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	206	206		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	460	460		
25000210	SEEDING, CLASS 2A	ACRE	0	0.1		
25000310	SEEDING, CLASS 4	ACRE	0	0.1		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9	9		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9	9		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	9		
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	920	920		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10	10		
28000305	TEMPORARY DITCH CHECKS	FOOT	93	93		
28000400	PERIMETER EROSION BARRIER	FOOT	330	330		
28100109	STONE RIPRAP, CLASS A5	SO YD	165		165	
28200200	FILTER FABRIC	SO YD	165		165	
20900110	POROUS GRANULAR BACKFILL	CU YD	56		56	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	44	44		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	203	203		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	45	45		
40701921	HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12"	SO YD	205	205		
44000100	PAVEMENT REMOVAL	SO YD	195	195		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SO YD	35	35		
50300300	PROTECTIVE COAT	SO YD	45		45	
51500100	NAME PLATES	EACH	1		1	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2		2	
54002020	EXPANSION BOLTS 3/4 INCH	EACH	42		42	
54011206	PRECAST CONCRETE BOX CULVERTS 12' X 6'	FOOT	60		60	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1		
55100900	STORM SEWER REMOVAL 18"	FOOT	7	7		
55102500	STORM SEWER REMOVAL 84"	FOOT	126	126		
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	75	75		
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	2		
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3		
67100100	MOBILIZATION	L SUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12		
78200420	GUARDRAIL MARKERS, TYPE B	EACH	8	8		
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	4	4		
X0301852	DEWATERING STRUCTURE NO. 1	EACH	2		2	

SUMMARY OF QUANTITIES				URBAN	CONSTRUCTION TYPE CODE	
PAY ITEM NUMBER	PAY ITEMS	UNITS	TOTAL QUANTITY	ROADWAY 80% FEDERAL 20% LOCAL 0004	BRIDGE 80% FEDERAL 20% LOCAL 0011	
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	100	100		
Z0076600	TRAINEES	HOURL	500			
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	500			

\*SPECIALTY ITEM  
 ΔCONSTRUCTION TYPE CODE 0042

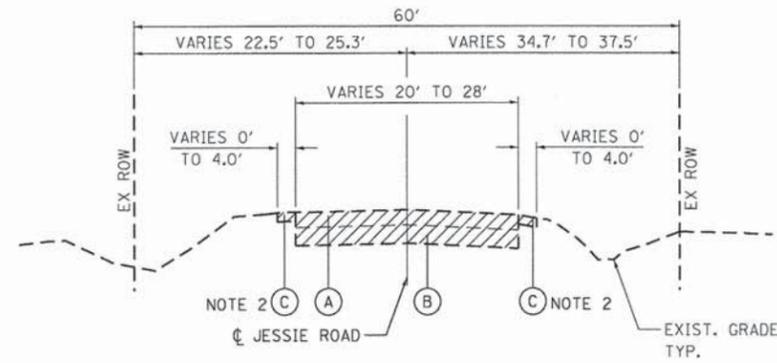
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 PROJECT CONTACT: Village of Lake in the Hills  
 CLIENT: 11/1/2013 11:50:12 AM  
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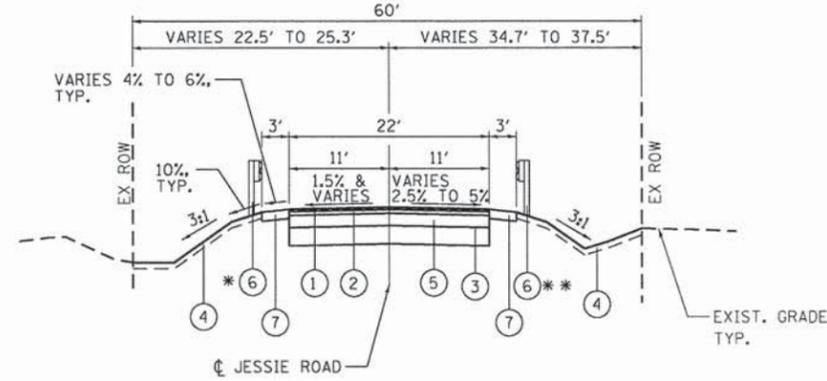
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES				M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
JESSIE ROAD OVER CRYSTAL CREEK				4180	11-00035-00-BR	McHENRY	21	4
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.				FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				
				CONTRACT NO. 63877				



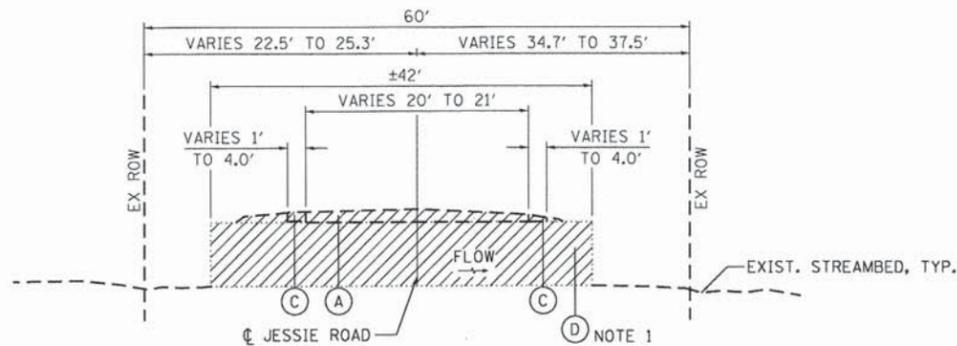
**EXISTING APPROACH ROADWAY  
TYPICAL SECTION**

STA. 100+68.00 TO STA. 101+66.04  
STA. 101+88.28 TO STA. 102+78.00



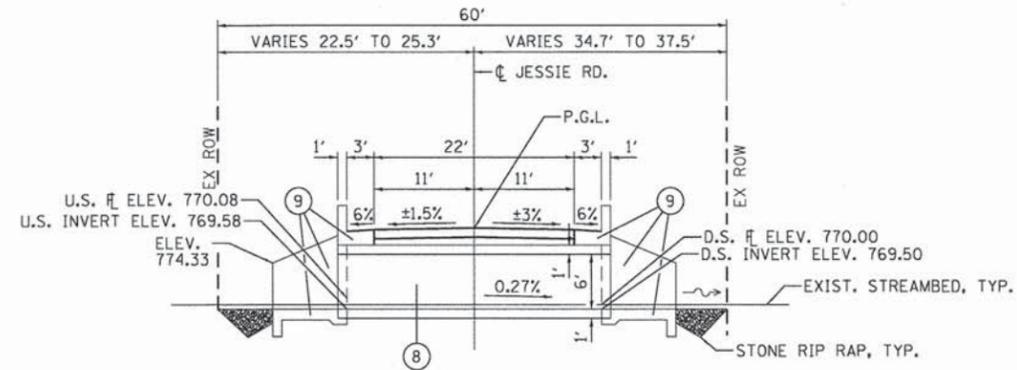
**PROPOSED APPROACH ROADWAY  
TYPICAL SECTION**

STA. 101+30.00 TO STA. 101+58.88  
STA. 101+87.28 TO STA. 102+13.00  
\* STA. 100+96.09 TO STA. 102+78.00  
\*\* STA. 100+68.00 TO STA. 102+13.70



**EXISTING TYPICAL SECTION  
AT CULVERT**

STA. 101+66.04 TO STA. 101+88.28



**PROPOSED TYPICAL SECTION  
AT CULVERT**

STA. 101+58.88 TO STA. 101+87.28

**EXISTING LEGEND**

- (A) EX HMA PAVEMENT (5 1/2" TO 9" THICKNESS)
- (B) EX AGGREGATE BASE/SUBBASE
- (C) EX AGGREGATE SHOULDER
- (D) EX TRIPLE 84" DIA. CMP CULVERT

**PROPOSED LEGEND**

- (1) HOT-MIX ASPHALT SURFACE COURSE MIX "D" N50 @ 1 1/2" (NOTE 3)
- (2) HOT-MIX ASPHALT BINDER COURSE IL - 19.0, N50 @ 2 1/2" (NOTE 3)
- (3) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (4) TOPSOIL FURNISH & PLACE 4" WITH SEEDING CLASS 2A
- (5) HOT-MIX ASPHALT BASE COURSE, 8" (NOTE 3)
- (6) STEEL PLATE BEAM GUARDRAIL
- (7) AGGREGATE SHOULDERS, TYPE B 6"
- (8) PRECAST CONCRETE BOX CULVERTS, 12'x6'
- (9) BOX CULVERT END SECTIONS, CULVERT NO. 1

INDICATES ITEMS TO BE REMOVED

**NOTES:**

1. REMOVAL PAID FOR UNDER STORM SEWER REMOVAL, 84"
2. REMOVAL PAID FOR UNDER REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.
3. PAID FOR UNDER HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12".

HOT-MIX ASPHALT REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ N <sub>RES</sub>
FULL DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE MIX "D" N50 (IL-9.5 mm) (2")	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (2 1/2")	4% @ 50 Gyr.
HOT-MIX ASPHALT BASE COURSE, 7 1/2" (HMA BINDER IL-19 mm) (IN 3 LIFTS)	4% @ 50 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112

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

COMPANY NAME: KWHM  
CONTACT: KWHM  
CLIENT: Village of Lake in the Hills  
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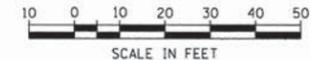
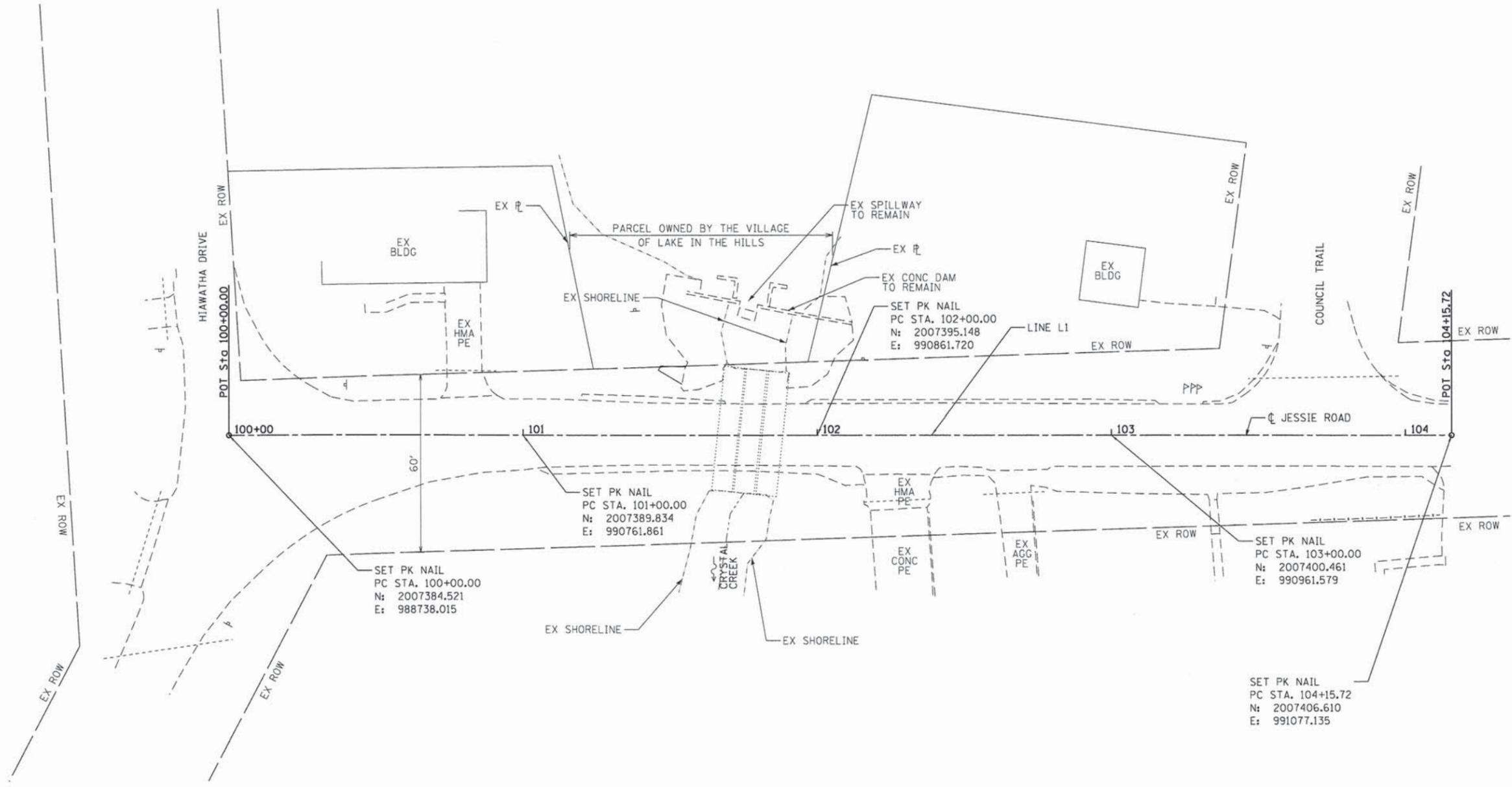


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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS		JESSIE ROAD OVER CRYSTAL CREEK	
M.S.	SECTION	COUNTY	TOTAL SHEETS
4180	11-00035-00-BR	MCHENRY	21
			SHEET NO. 5
			CONTRACT NO. 63877
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT			

LINE L1  
 LENGTH = 415.72  
 BEARING = N86°57'15"E  
 BEGIN STA. = 100+00.00  
 END STA. = 104+15.72



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: Kevin M. Arff  
 CLIENT: Village of Lake in the Hills  
 DATE PLOTTED: 10/17/2013 10:56:08 AM  
 FILE NAME: 86120455-TIES-01.dgn  
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 PEN TABLE: standard-trans.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 # 164-001322

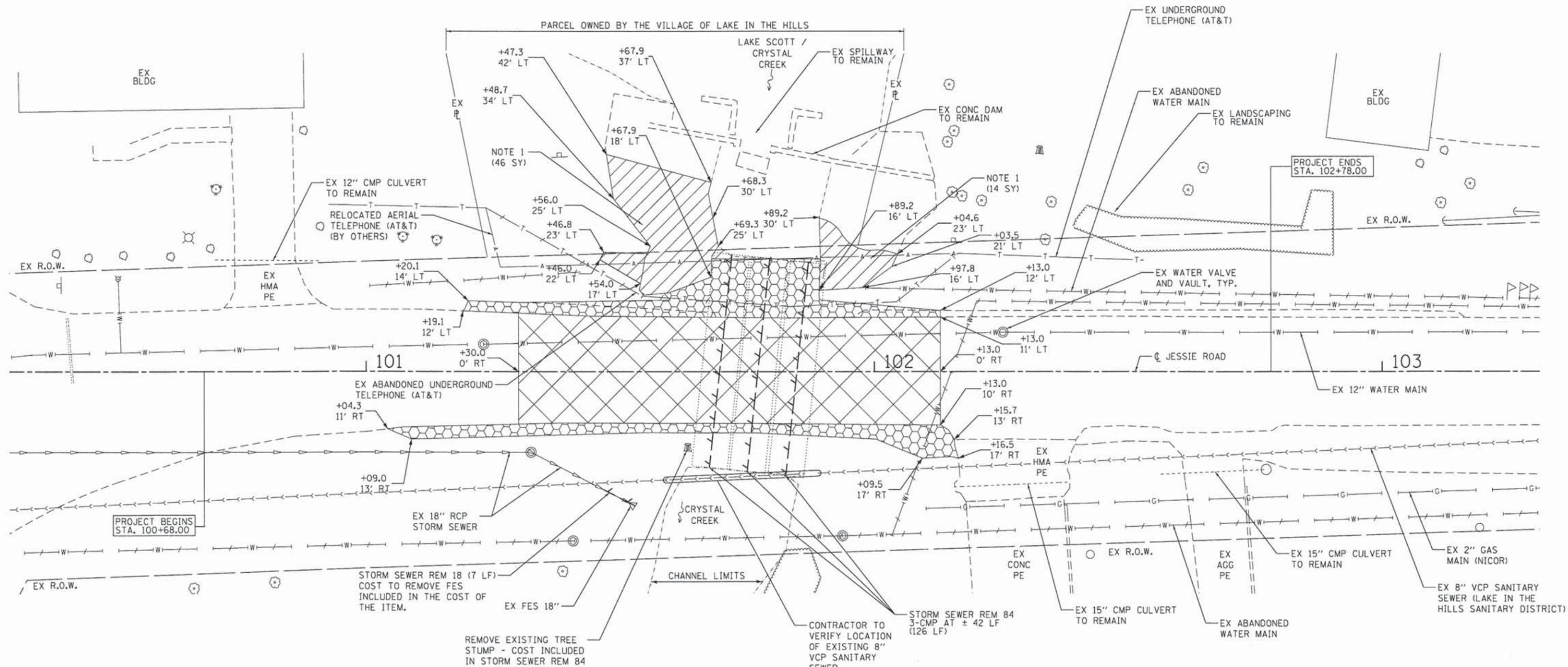
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PLOT DATE = 10/17/2013	DATE - 10/17/13	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT DETAIL  
 JESSIE ROAD OVER CRYSTAL CREEK**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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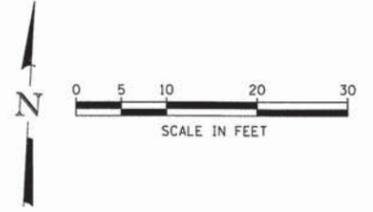
M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4180	11-00035-00-BR	McHENRY	21	6
CONTRACT NO. 63877				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				



**LEGEND**

-  PAVEMENT REMOVAL
-  GROUTED RIPRAP REMOVAL (NOTE 1.)
-  AGGREGATE OR GRASS SHOULDER REMOVAL (PAID AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)
-  LINEAR REMOVAL ITEMS
-  EXISTING ABANDONED UTILITY

NOTES:  
 1. THIS WORK SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTION 501 OF THE STANDARD SPECIFICATIONS. COST FOR THIS WORK IS INCLUDED UNDER STONE RIPRAP, CL A5.



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: Kevin M. Arff  
 CLIENT: Village of Lake in the Hills  
 DATE PLOTTED: 10/17/2013 10:56:12 AM  
 FILE NAME: 86120455-Rem-01.dgn  
 PLOT DRIVER: pdf.plt  
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PLOT DATE = 10/17/2013	DATE - 10/17/13	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL PLAN</b>	
<b>JESSIE ROAD OVER CRYSTAL CREEK</b>	
SCALE: 1"=10'	SHEET NO. OF SHEETS STA. 8+05 TO STA. 10+81

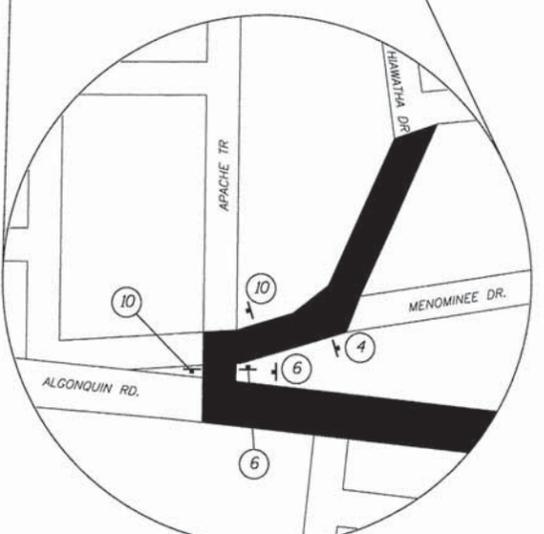
M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4180	11-00035-00-BR	McHENRY	21	7
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 63877



**DETOUR GENERAL NOTES**

1. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING HAS BEEN ERCTED IN ACCORDANCE WITH THE DETOUR PLAN.
2. THE ENGINEER, VILLAGE OF LAKE IN THE HILLS POLICE DEPARTMENT, AND THE MCHENRY COUNTY DIVISION OF TRANSPORTATION SHALL BE NOTIFIED IN WRITING AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT.
3. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012. THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," AND AS DIRECTED BY THE ENGINEER.
4. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL CONFORM TO "CONVENTIONAL ROAD" AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE.
5. THIS IS THE MINIMUM REQUIRED TRAFFIC CONTROL. ADDITIONAL SIGNING AND/OR BARRICADES DEEMED NECESSARY BY THE ENGINEER DUE TO CONTRACTOR'S OPERATIONS SHALL BE PROVIDED AND INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
6. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND THE MCHENRY COUNTY DIVISION OF TRANSPORTATION WITH THE NAMES AND PHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE, (INCLUDING A 24-HR EMERGENCY NUMBER) AND HIS REPRESENTATIVES SHALL BE RESPONSIBLE FOR THE DETOUR SIGNING, PRIOR TO THE START OF WORK AT THE RECONSTRUCTION CONFERENCE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD LOCATION OF ALL DETOUR AND CONSTRUCTION SIGNING. THE CONTRACTOR MAY REQUEST THE ENGINEER TO FIELD VERIFY THE POSITIONS OF ANY SIGNS.
8. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WITH THE DETOUR IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR IN A MANNER MEETING THE APPROVAL OF THE ENGINEER.
9. ALL DETOUR SIGNING SHALL BE POST MOUNTED.
10. ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF ARTICLE 1084.02 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR IN LIKE-NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM ARE IN PLACE AND OPERATING 24 HOURS EACH DAY, INCLUDING SUNDAYS AND HOLIDAYS.
12. THE "ROAD CLOSED" (R11-2 SIGN SHALL BE MOUNTED ABOVE THE TOPS OF THE TYPE III BARRICADES. ALL TYPE III BARRICADES SHALL HAVE TWO AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINES OF THE SUPPORTS.
13. THE TYPE III BARRICADES USED AT POINTS OF CLOSURE TO THRU TRAFFIC ONLY SHALL NOT EXCEED 8 FEET IN WIDTH EACH FOR A SINGLE APPROACH LANE. ALL BARRICADES AT THESE LOCATIONS SHALL HAVE REFLECTORIZED STRIPING ON THE BACK SIDES OF THE BARRICADES.
14. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.04 OF THE STANDARDS SPECIFICATIONS SHALL APPLY.
15. DURING NON-WORKING HOURS THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE TYPE III BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNS, INCLUDING CUTTING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER. COST INCLUDED UNDER "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)."
17. THE ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS BEFORE THE ROAD IS TO BE REOPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
18. ALL WORK REQUIRED FOR DETOUR SIGNING SHALL BE PAID FOR AS "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)."
19. THE CONTRACTOR IS MADE AWARE THAT PYOTT ROAD AND ALGONQUIN ROAD ARE UNDER THE JURISDICTION OF THE MCHENRY COUNTY DIVISION OF TRANSPORTATION (MCDOT). THE CONTRACTOR SHALL CONTACT MCDOT AT LEAST 48 HOURS IN ADVANCE OF PLACING ANY CONSTRUCTION SIGNAGE WITHIN THE MCDOT RIGHT-OF-WAY. DETOUR SIGNAGE SHALL NOT BE INSTALLED ON ANY MCDOT STREET LIGHT POLES OR SIGNAL POLES. DETOUR SIGNAGE SHALL NOT OBSTRUCT ANY MCDOT SIGNS AND CANNOT USE THE SAME SIGN POSTS. SIGNS ON MCDOT ROADS MUST BE INSTALLED AT LEAST 12 FEET FROM THE EDGE OF THE MAINLINE ROADWAY (EDGE LINE).



**SIGN LEGEND**

1		DETOUR AHEAD	W20-2-4848	6		JESSIE ROAD	SPECIAL - 2412	11		JESSIE ROAD	SPECIAL - 219	17		EFFECTIVE [DATE]	4812	JESSIE ROAD CLOSED BETWEEN PYOTT ROAD AND HIAWATHA DRIVE USE ALGONQUIN ROAD	INFO 60X30	
2		JESSIE ROAD	SPECIAL - 219	7		JESSIE ROAD	SPECIAL - 219	12		JESSIE ROAD	SPECIAL - 219	18		DETOUR	M4-10L			
3		JESSIE ROAD	SPECIAL - 219	8		JESSIE ROAD	SPECIAL - 219	13		JESSIE ROAD	SPECIAL - 219	19		DETOUR	M4-10R			
4		JESSIE ROAD	SPECIAL - 219	9		ROAD CLOSED 500 FT	W20-3-4848	14		ROAD CLOSED 1000 FT	W20-3-4848	20		ROAD CLOSED TO THRU TRAFFIC	R11-4			
5		JESSIE ROAD	SPECIAL - 219	10		ROAD CLOSED AHEAD	W20-2-4848	15		ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY	R11-3A-6030	21		ROAD CLOSED TO THRU TRAFFIC	R11-4			
												22		ROAD CLOSED 1000 FT	W20-3-4848	23		R3-2
												24		BRIDGE OUT	R-11-2-4830			R3-1

**LEGEND**

PROPOSED DETOUR ROUTE

COMPANY NAME: HRGreen  
 PROJECT CONTACT: Kevin M. Arf  
 CLIENT: Village of Lake in the Hills  
 DATE PLOTTED: 11/1/2013 10:58:18 AM  
 PLOT DRIVER: hr-green-plot.dgn  
 PEN TABLE: standard-trans.tbl



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY DETOUR PLAN  
 JESSIE ROAD OVER CRYSTAL CREEK**

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

M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4180	11-00035-00-BR	MCHENRY	21	9
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 63877		

**EROSION CONTROL NOTES**

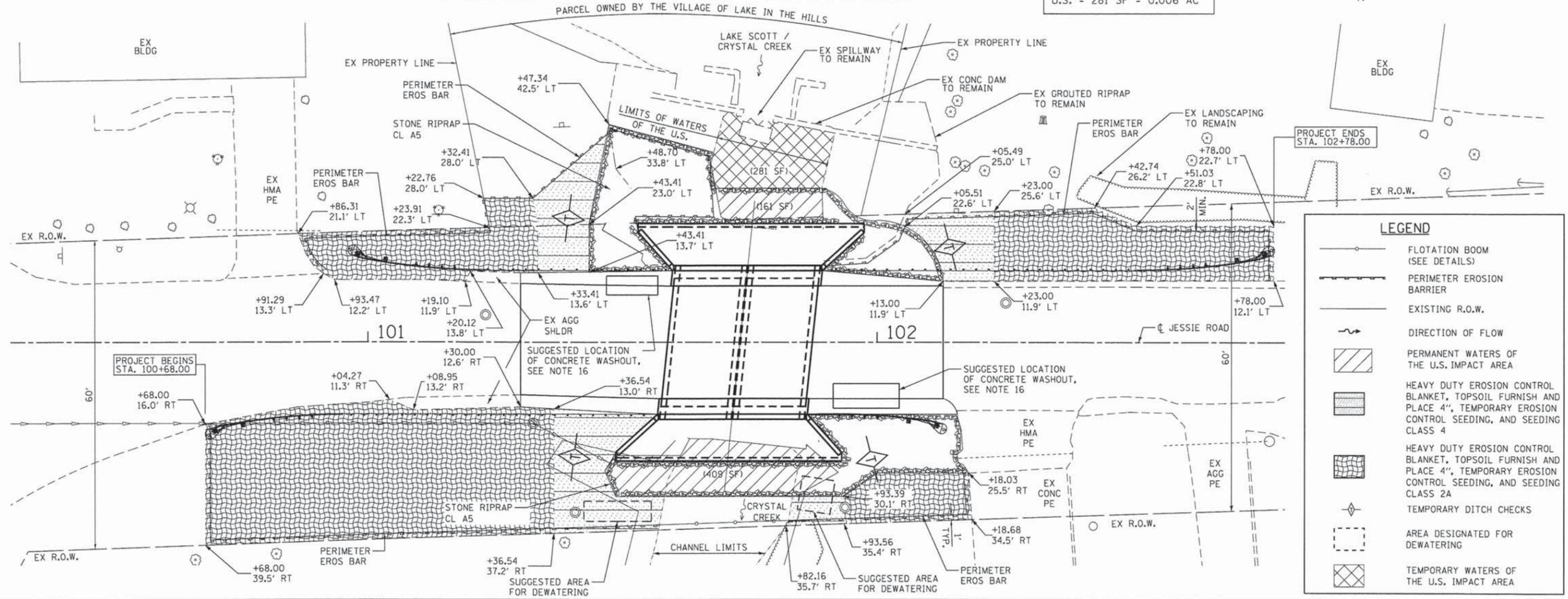
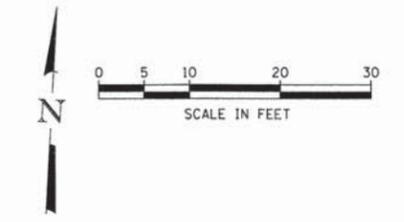
1. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES PRIOR TO EARTHWORK.
2. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN SEVEN (7) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 06-60.
4. STABILIZATION MEASURES SHALL BE INITIATED WITHIN 7 DAYS OF CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASING IN AREAS WHERE IT WILL NOT OCCUR FOR A PERIOD OF 14 OR MORE CALENDAR DAYS.
5. THE CONTRACTOR SHALL APPLY TEMPORARY EROSION CONTROL SEEDING TO ALL ERODIBLE BARE EARTH AREAS WITHIN THE CONTRACT LIMITS EACH WEEK, REGARDLESS OF WEATHER CONDITIONS OR PROGRESS OF THE WORK, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ERODIBLE EMBANKMENT AND EXCAVATION AREAS WHERE WORK IS IN PROGRESS SHALL BE INCLUDED ON THE AREAS TO BE SEED. SEE BDE SPECIAL PROVISION FOR TEMPORARY EROSION CONTROL.
6. THE SOIL AND WATER CONSERVATION DISTRICT IS RESPONSIBLE FOR CONDUCTING SITE VISITS AND VERIFYING THAT THE PRACTICES ARE WORKING PROPERLY AND DETERMINE IF ADDITIONAL PRACTICES ARE NEEDED FOR BETTER SOIL EROSION AND SEDIMENT CONTROL. IF ADDITIONAL PRACTICES ARE DEEMED NECESSARY BY THE ENGINEER OR THE SWCD THE CONTRACTOR WILL IMPLEMENT THE PRACTICES IN A TIMELY MANNER.
7. THE MCHENRY-LAKE SOIL AND WATER CONSERVATION DISTRICT MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND TWO WEEKS PRIOR TO FINAL INSPECTION.

8. THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER 1/2 INCH OF RAIN OR MORE BY THE INDIVIDUAL ON SITE IN CHARGE OF SOIL EROSION AND SEDIMENT CONTROL DURING THE CONSTRUCTION OF THE PROJECT. THE ENGINEER WILL BE RESPONSIBLE FOR THE EROSION AND SEDIMENT CONTROL INSPECTIONS.
9. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE INSTALLED TO ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 5H:1V AND IN CRITICAL AREAS (I.E. DETENTION BASIN PERIMETERS, STREAMBANKS, BERMS, ETC.) IMMEDIATELY UPON FINAL GRADING.
10. PERIMETER EROSION BARRIER SHALL BE INSTALLED PRIOR TO EARTH WORK AND WILL REMAIN IN PLACE UNTIL THE CONTRIBUTING AREA IS STABILIZED.
11. ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS. INSPECTED DAILY AND CLEANED WHEN NECESSARY OR DIRECTED BY THE ENGINEER.
12. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE REFERENCED FROM THE ILLINOIS URBAN MANUAL.
13. ALL MATERIALS USED FOR TEMPORARY CONSTRUCTION ACTIVITIES WILL BE REMOVED TO UPLAND AREAS IMMEDIATELY FOLLOWING COMPLETION OF THE CONSTRUCTION ACTIVITY.
14. A STAMPED AND SIGNED COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES AND BE PRESENTED WHEN REQUESTED BY MCHENRY-LAKE SWCD, U.S. ARMY CORP OF ENGINEERS OR ANY OTHER AUTHORIZED AGENCY.
15. SEEDING MIXTURES USED SHALL BE CLASS 2A AND CLASS 4 AS DETAILED IN SECTION 250 OF THE STANDARD SPECIFICATIONS. PLANTING TIMES ARE LIMITED TO APRIL 1 TO JUNE 15 AND AUGUST 1 TO NOVEMBER 1. FOR CLASS 2A; MAY 15 TO JUNE 30 AND OCTOBER 15 TO DECEMBER 1 FOR CLASS 4.
16. THE CONTRACTOR WILL BE REQUIRED TO HAVE A DESIGNATED CONCRETE WASH OUT AREA DURING ALL CONCRETE POURS. LOCATION TO BE COORDINATED BETWEEN THE CONTRACTOR AND ENGINEER.

18. OTHER THAN TO INSTALL AND REMOVE THE METHOD OF DIVERSION/DEWATERING, NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR WOODS CREEK SHALL BE ISOLATED FROM CREEK FLOWS AND DEWATERED PRIOR TO THE COMMENCEMENT OF WORK. THE DIVERSION/ISOLATION OF THE CREEK FLOWS MUST BE CONSTRUCTED FROM NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, ETC.). EARTHEN DIVERSIONS ARE NOT ALLOWED.
19. THE MCHENRY-LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE ARMY CORPS OF ENGINEERS MUST BE IN AGREEMENT WITH METHOD OF DIVERSION/ISOLATION, DEWATERING AND FILTERING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
20. IF BYPASS PUMPING IS NECESSARY, THE PUMP SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM BEING SUCKED INTO THE HOSE. THE OUTLET SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION OF DOWNSTREAM AREAS. CLEANING OR FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS OTHERWISE REQUIRED.
21. WHEN DEWATERING THE CONSTRUCTION AREA, ALL WATER MUST BE FILTERED PRIOR TO REJOINING THE STREAM FLOW. DEWATERING METHODS SHALL BE CHOSEN BASED ON SITE CONDITIONS, CONSTRAINTS AND SEDIMENT LOADS. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS, OR OTHER METHODS APPROVED BY THE ENGINEER. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER QUALITY TO THE SATISFACTION OF THE ENGINEER.
22. THE SIDE SLOPES MUST BE RESEEDED AND STABILIZED WITH AN APPROPRIATE HEAVY DUTY EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE SHALL BE STABLE ENOUGH TO ACCEPT FLOWS AND SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER.
23. NO EQUIPMENT IS ALLOWED TO OPERATE IN THE WATER OR ON THE STREAMBED.
24. THE CONTRACTOR'S OPERATIONS SHALL NOT OBSTRUCT OR ALTER THE EXISTING CONCRETE DAM.

17. THE COST FOR DEWATERING, FILTERING AND AGENCY COORDINATION SHALL BE INCLUDED IN THE COST OF "DEWATERING, STRUCTURE NO. 1."

TOTAL PERMANENT IMPACT TO THE WATERS OF THE U.S. = 570 SF = 0.013 AC  
 TOTAL TEMPORARY IMPACT TO THE WATERS OF THE U.S. = 281 SF = 0.006 AC



**LEGEND**

- FLOTATION BOOM (SEE DETAILS)
- PERIMETER EROSION BARRIER
- EXISTING R.O.W.
- DIRECTION OF FLOW
- PERMANENT WATERS OF THE U.S. IMPACT AREA
- HEAVY DUTY EROSION CONTROL BLANKET, TOPSOIL FURNISH AND PLACE 4", TEMPORARY EROSION CONTROL SEEDING, AND SEEDING CLASS 4
- HEAVY DUTY EROSION CONTROL BLANKET, TOPSOIL FURNISH AND PLACE 4", TEMPORARY EROSION CONTROL SEEDING, AND SEEDING CLASS 2A
- TEMPORARY DITCH CHECKS
- AREA DESIGNATED FOR DEWATERING
- TEMPORARY WATERS OF THE U.S. IMPACT AREA

COMPANY NAME: Kevin M. Arff  
 PROJECT CONTACT: Village of Lake in the Hills  
 CLIENT: 10/17/2013 10:56:27 AM  
 FILE NAME: 86120455-Ero-01.dgn  
 PLOT DRIVER: pdf\_PLOT-111.dgn  
 PEN TABLE: sromador-tranos.tbl

**HRGreen.com**  
 Illinois Professional Design Firm  
 # 184-001322

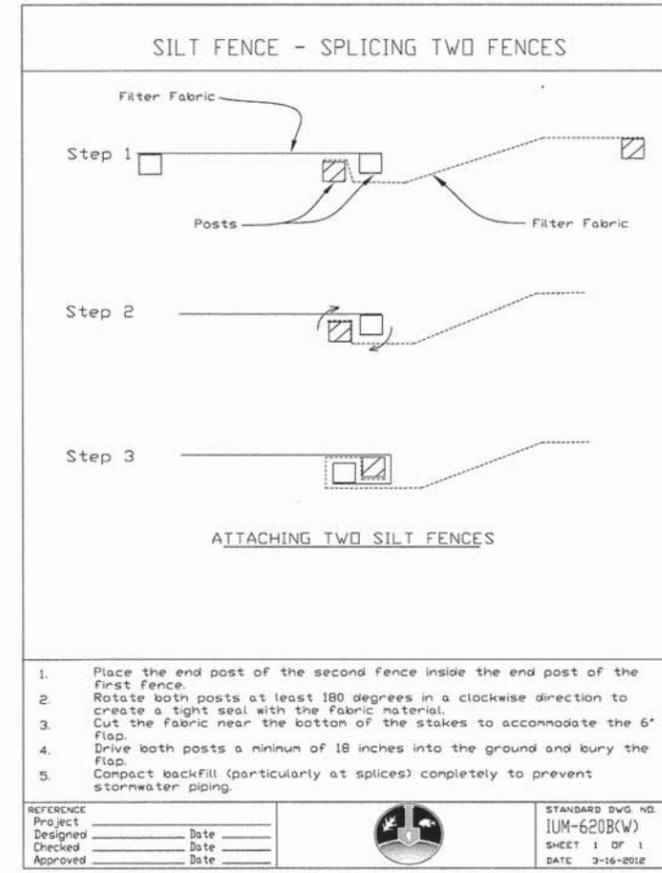
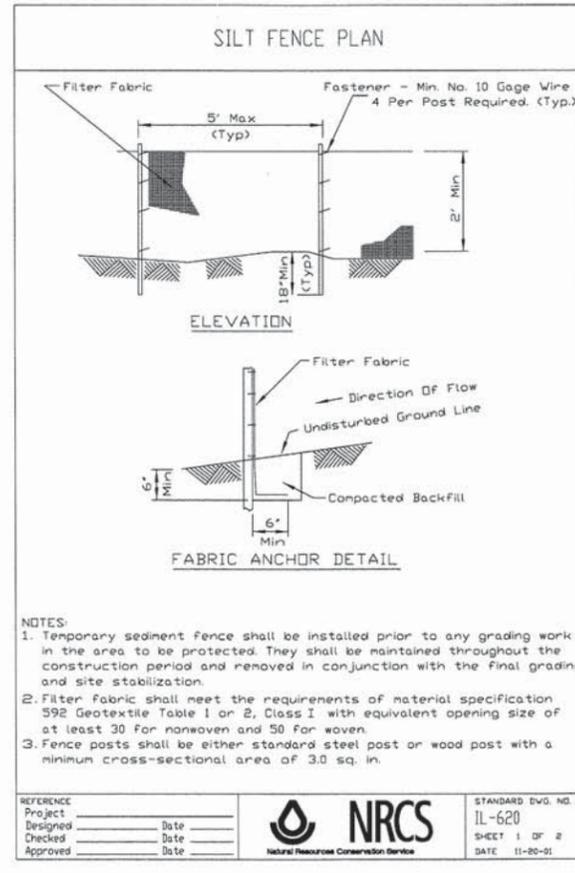
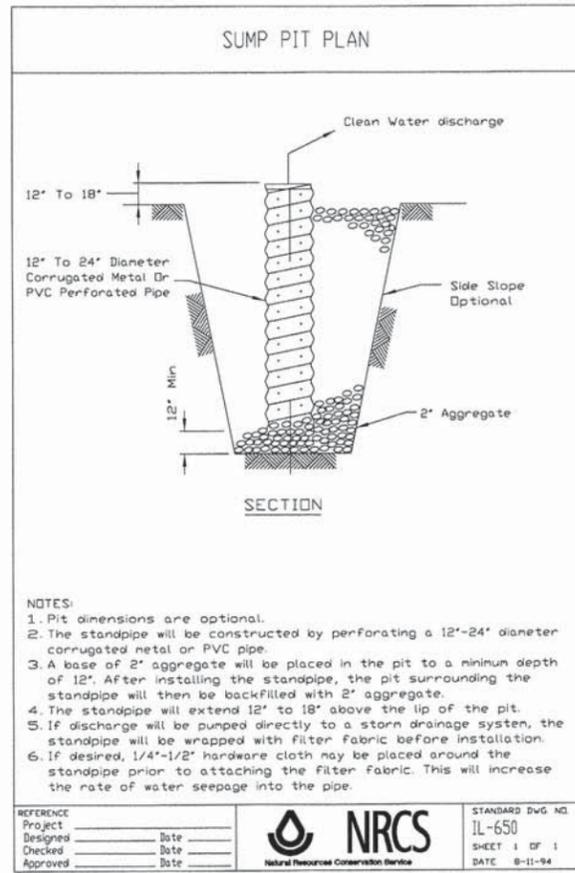
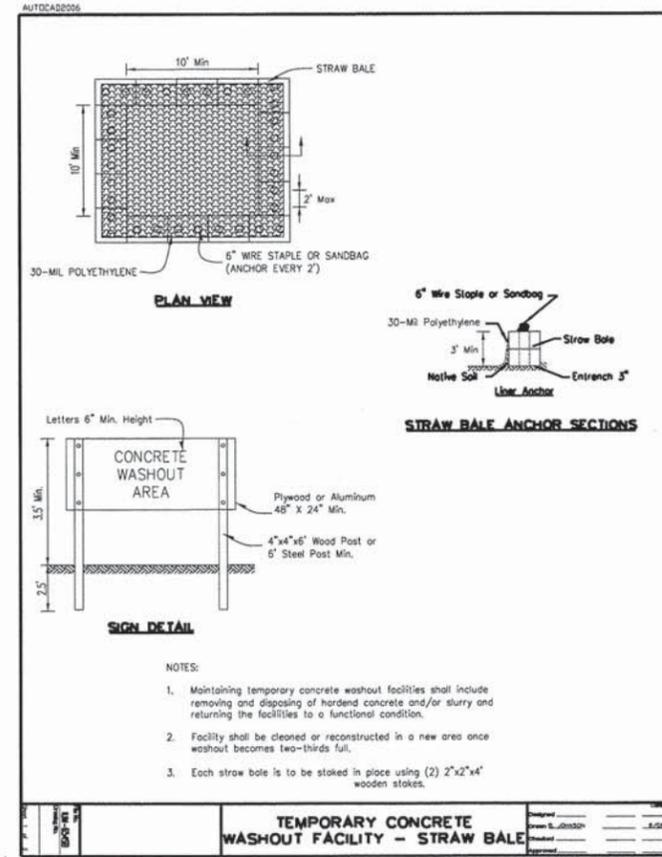
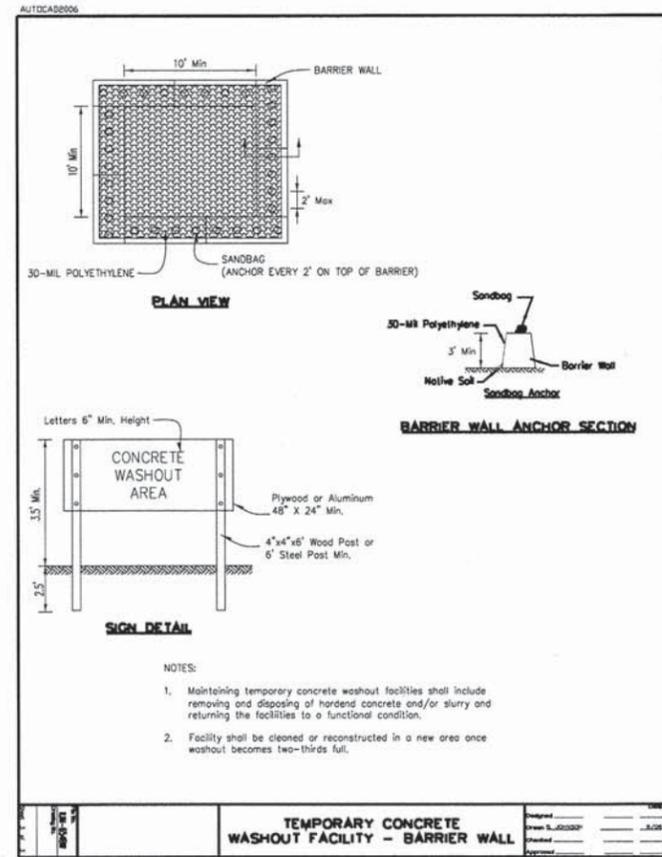
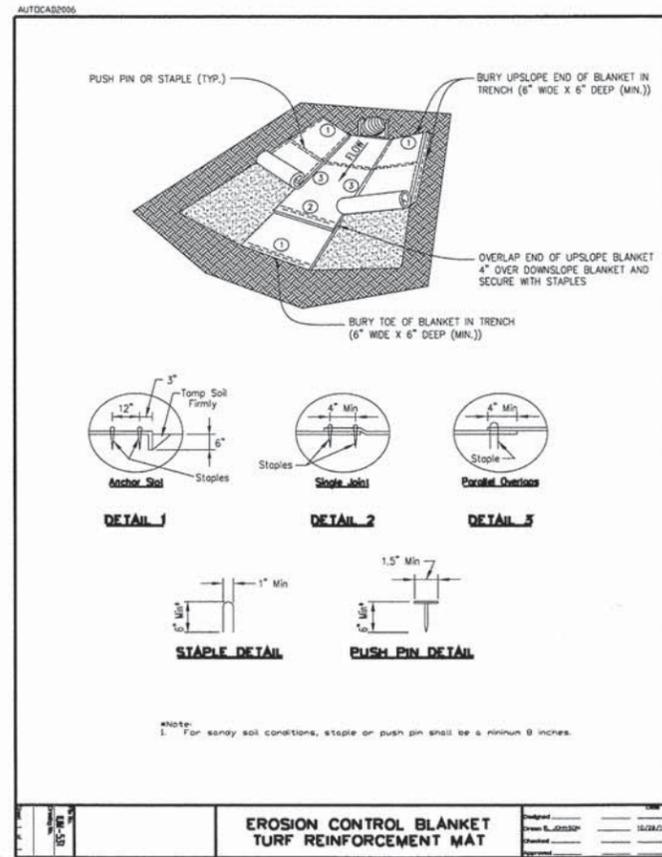
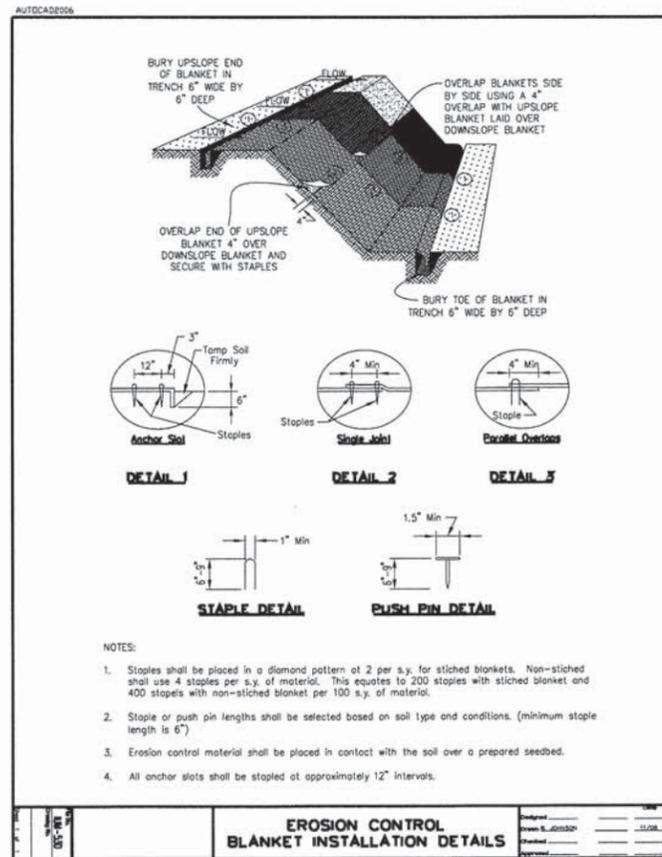
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FILE NAME = 86120455-Ero-01.dgn	DRAWN - WJH	REVISED -
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PLOT DATE = 10/17/2013	DATE = 10/17/13	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND RESTORATION PLAN**  
**JESSIE ROAD OVER CRYSTAL CREEK**

SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.

M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4180	11-00035-00-BR	MCHENRY	21	10
				CONTRACT NO. 63877
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



COMPANY NAME: Kevin M. Arff  
 PROJECT CONTACT: Village of Lake in the Hills  
 CLIENT: 10/17/2013 10:56:31 AM  
 DATE PLOTTED: 86120455-Ero-02.dgn  
 FILE NAME: pdf.DET-Tiff.dft  
 PLOT DRIVER: standard-trans.tbl  
 PEN TABLE:



HRGreen.com  
 Illinois Professional Design Firm  
 #194-001322

USER NAME = whood  
 FILE NAME = 86120455-Ero-02.dgn  
 PLOT SCALE = N.T.S.  
 PLOT DATE = 10/17/2013

DESIGNED - KMA  
 DRAWN - WJH  
 CHECKED - RGD  
 DATE - 10/17/13

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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

EROSION CONTROL DETAILS  
 JESSIE ROAD OVER CRYSTAL CREEK

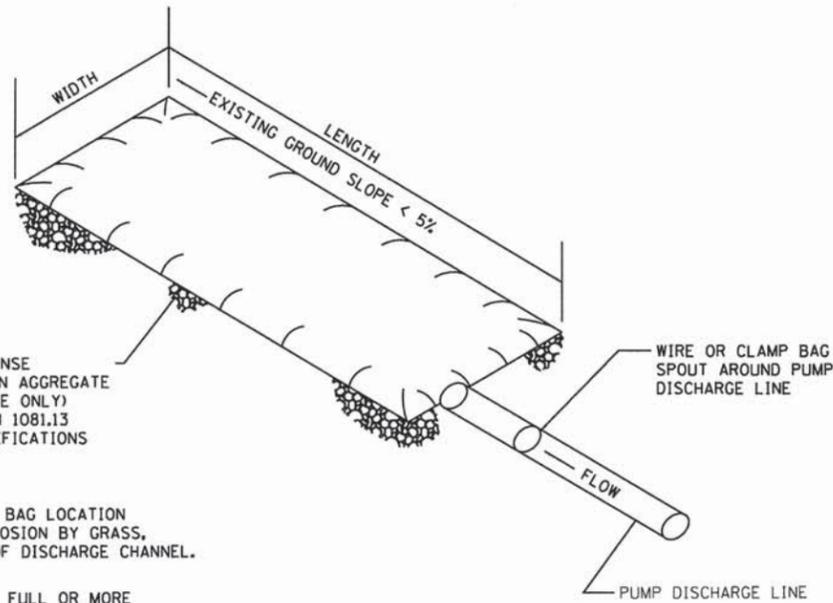
M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4180	11-00035-00-BR	McHENRY	21	11
CONTRACT NO. 63877				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

REFERENCE Project \_\_\_\_\_ Date \_\_\_\_\_  
 Designed \_\_\_\_\_ Date \_\_\_\_\_  
 Checked \_\_\_\_\_ Date \_\_\_\_\_  
 Approved \_\_\_\_\_ Date \_\_\_\_\_

STANDARD DWG. NO. IL-620  
 SHEET 1 OF 2  
 DATE 11-20-01

REFERENCE Project \_\_\_\_\_ Date \_\_\_\_\_  
 Designed \_\_\_\_\_ Date \_\_\_\_\_  
 Checked \_\_\_\_\_ Date \_\_\_\_\_  
 Approved \_\_\_\_\_ Date \_\_\_\_\_

STANDARD DWG. NO. IUM-620B(W)  
 SHEET 1 OF 1  
 DATE 3-16-2012



PLACE FILTERBAG ON DENSE MATURE GRASS OR ON AN AGGREGATE BASE (COARSE AGGREGATE ONLY) CONFORMING TO SECTION 1081.13 OF THE STANDARD SPECIFICATIONS

ENSURE THAT RUNOFF FROM THE BAG LOCATION IS PREVENTED FROM CAUSING EROSION BY GRASS, STONE, OR GEOTEXTILE LINING OF DISCHARGE CHANNEL.

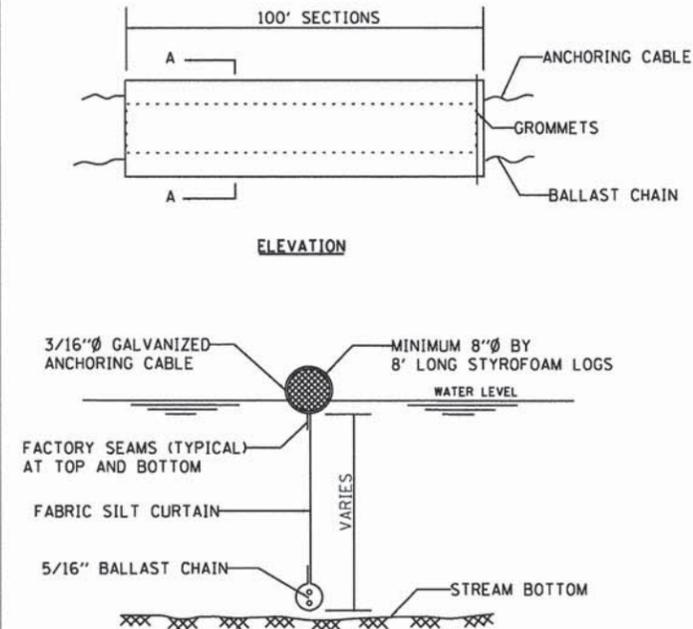
REMOVE SILT WHEN BAG IS HALF FULL OR MORE OFTEN IF RECOMMENDED BY THE MAUNFACTURER. DISPOSE OF SILT BY TRANSPORTING THE FILLED BAG TO DISPOSAL AREA. SLIT THE BAG, BLEND SILT INTO EXISTING TOPOGRAPHY, SEED AND MULCH

MAINTAIN EXTRA FILTER BAGS ON SITE. REPLACE DAMAGED BAGS PROMPTLY.

TYPICAL FLOW RATE: 10 GPM x W x L

NOTE:  
DEWATERING SYSTEM DETAILS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIAL PROVISIONS.

FIGURE S1. SEDIMENT FILTER BAG

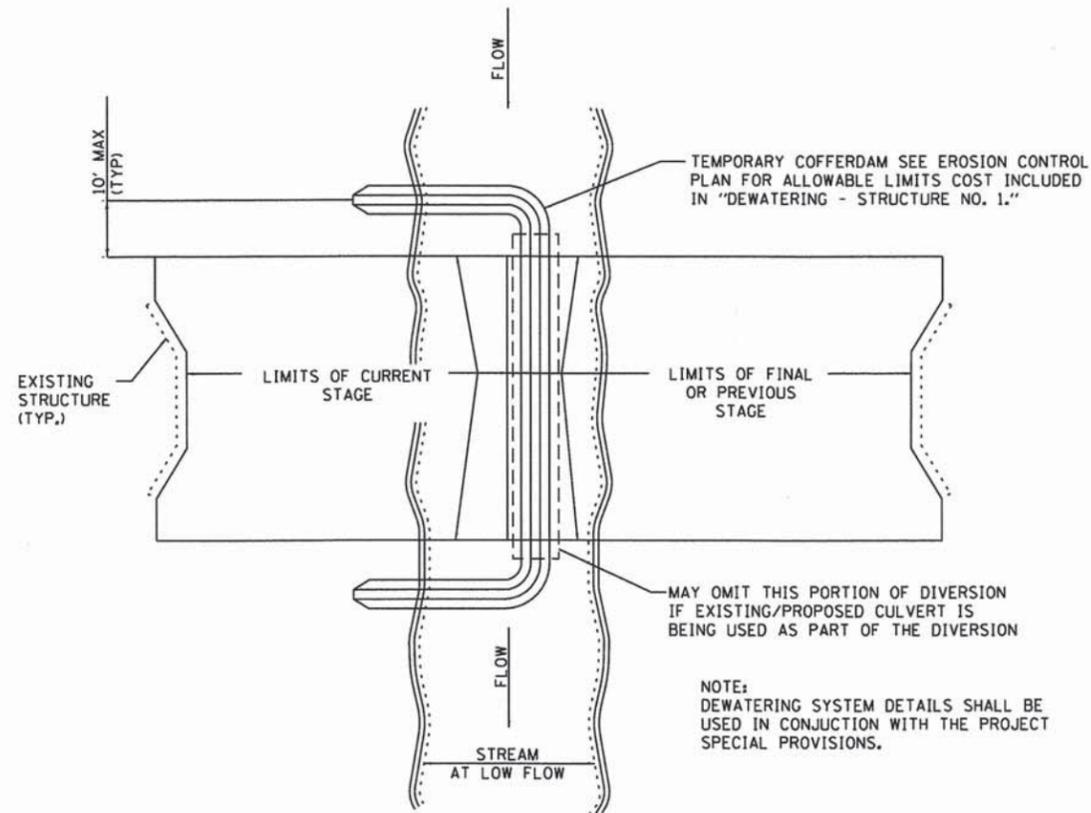


NOTES:

1. FLOTATION BOOM SHALL BE ANCHORED TO PREVENT DRIFT SHOREWARD OR DOWNSTREAM. ANCHORAGES SHALL BE INSTALLED ON BOTH SHORE AND STREAM SIDE.
2. SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE SUFFICIENT SIZE TO STABILIZE THE BARRIER WITH NUMBER AND SPACING DEPENDENT ON WATERWAY VELOCITIES.
3. FABRIC SECTIONS SHALL BE CONNECTED END TO END WITH MINIMUM 5/8" DIAMETER POLYPROPYLENE ROPE
4. DESIGN OF BOOM AND ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMENDATIONS. BOTTOM OF BOOM SHALL REACH BOTTOM OF WATERWAY USING ONE OR TWO VERTICAL SECTIONS AS REQUIRED.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED. CONTRACTOR SHALL REMOVE THE BOOM AT COMPLETION OF WORK IN A MANNER THAT WILL PREVENT SILTATION OF THE WATERWAY.
6. COST OF FLOTATION BOOM INCLUDED IN THE ITEM "DEWATERING, STRUCTURE NO. 1"

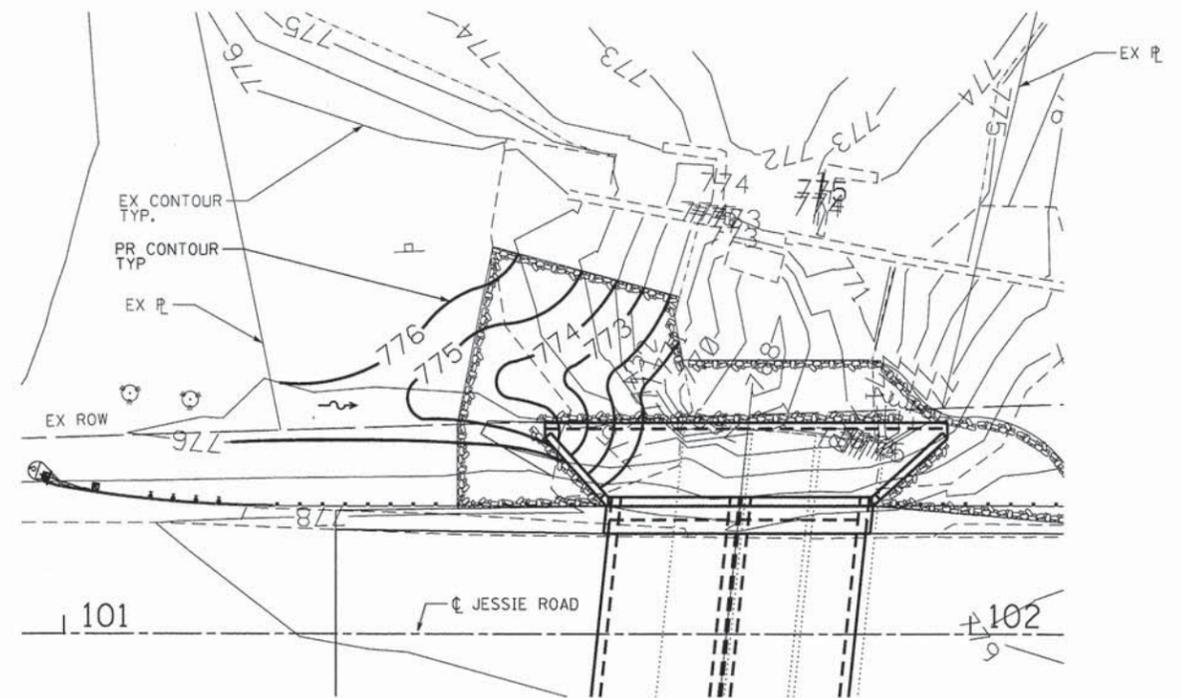
APPLICATION: FLOTATION BOOMS TO BE USED TO CONTROL EROSION, TURBIDITY AND DEBRIS WHEN WORKING IN WATERWAYS.

FLOTATION BOOM



NOTE:  
DEWATERING SYSTEM DETAILS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIAL PROVISIONS.

FIGURE D2. STAGED IN-STREAM COFFERDAM DIVISION



GRADING DETAIL AT NORTHWEST QUADRANT

COORDINATE WITH STONE RIP RAP DETAILS IN CULVERT PLANS

= DIRECTION OF FLOW

COMPANY NAME: HRGreen  
PROJECT CONTACT: Kevin M. Arff  
CLIENT: Village of Lake in the Hills  
DATE PLOTTED: 10/17/2013 10:56:35 AM  
FILE NAME: 86120455-Ero-03.dgn  
PLOT DRIVER: pdf.plt  
PEN TABLE: standard-trans.tbl



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PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 10/17/2013	DATE - 10/17/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS			
JESSIE ROAD OVER CRYSTAL CREEK			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4180	11-00035-00-BR	McHENRY	21	12
CONTRACT NO. 63877				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

Benchmark 1:  
Cut x on east end of west wall located on north side of Jessie Road over Crystal Creek. Elevation=776.60 (NAVD88)

Existing SN: 056-6400  
The existing structure built in 1950 and consist of (3) 84" corrugated metal pipes. There are no headwalls, wingwalls or bridge rails or guardrails at the structure. Structure to be removed and replaced as shown. Roadway to be closed to through-traffic. Traffic to be maintained with a temporary detoured during construction.

Salvage: None

Top/dam Elev. 776.50

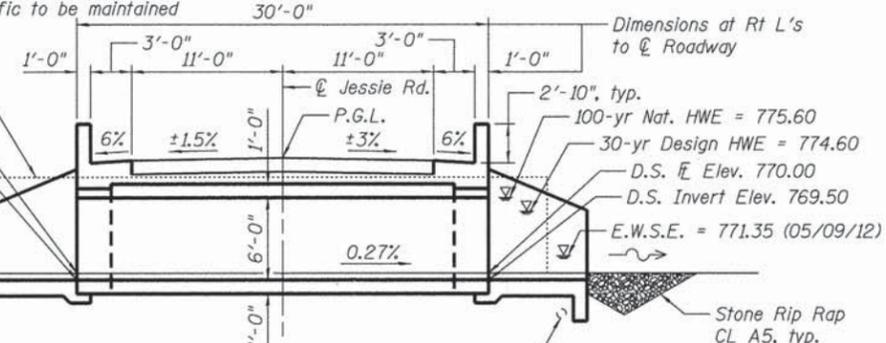
Exist. Weir Elev. 773.64

Exist. triple 84" dia. CMP culvert

U.S. E Elev. 770.08  
U.S. Invert Elev. 769.58

Elev. 774.33

Exist. streambed, typ.



Exist. 8" VCP Sanitary Sewer. Approx. top of pipe Elev. ±768.09 at prop. end section. Contractor to verify. Pipe to be cased or relocated by others prior to construction.

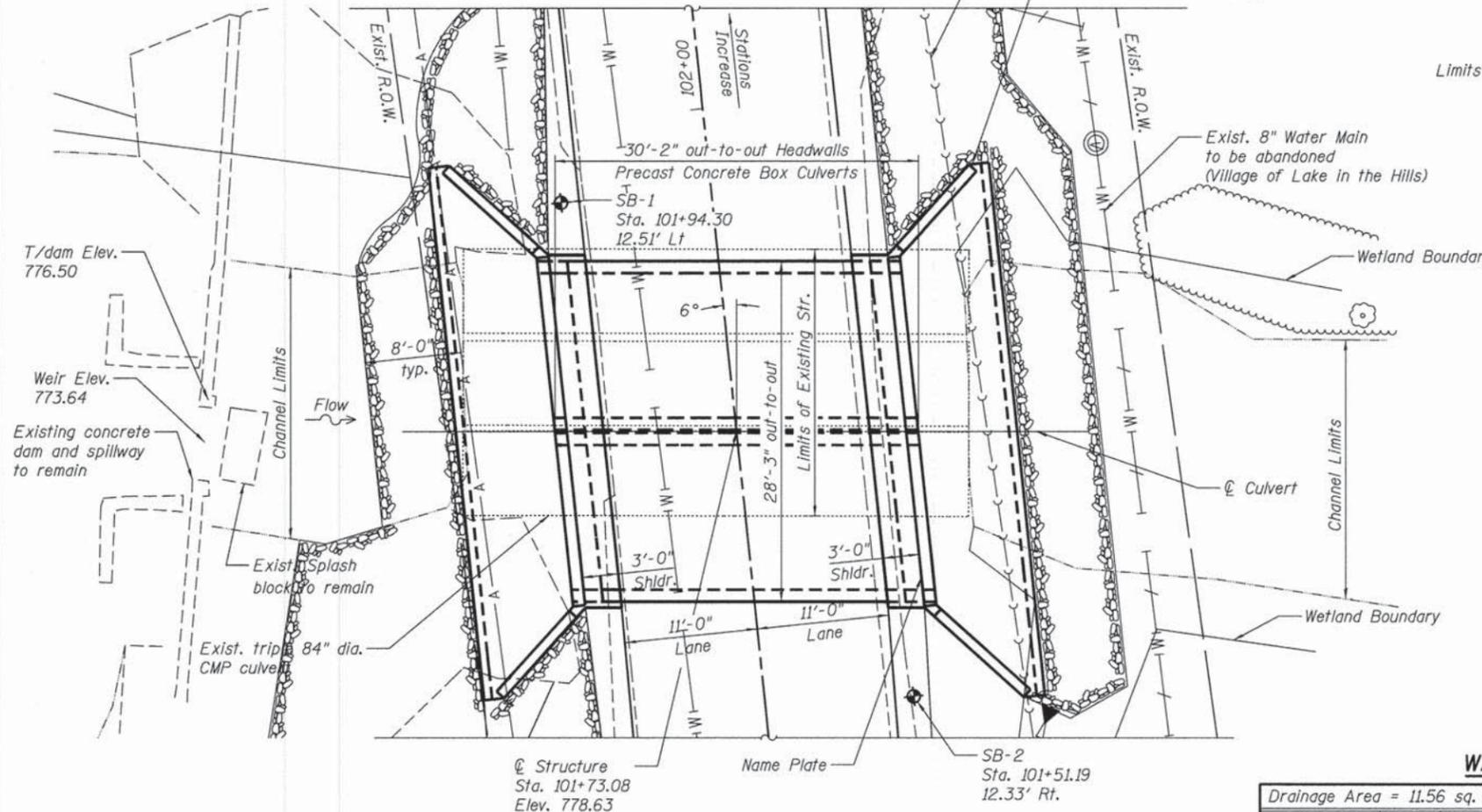
\* Porous Granular Material conforming to Section 209 of the Standard Specifications, typ. each side of structure

Dimensions at Rt L's to E Roadway

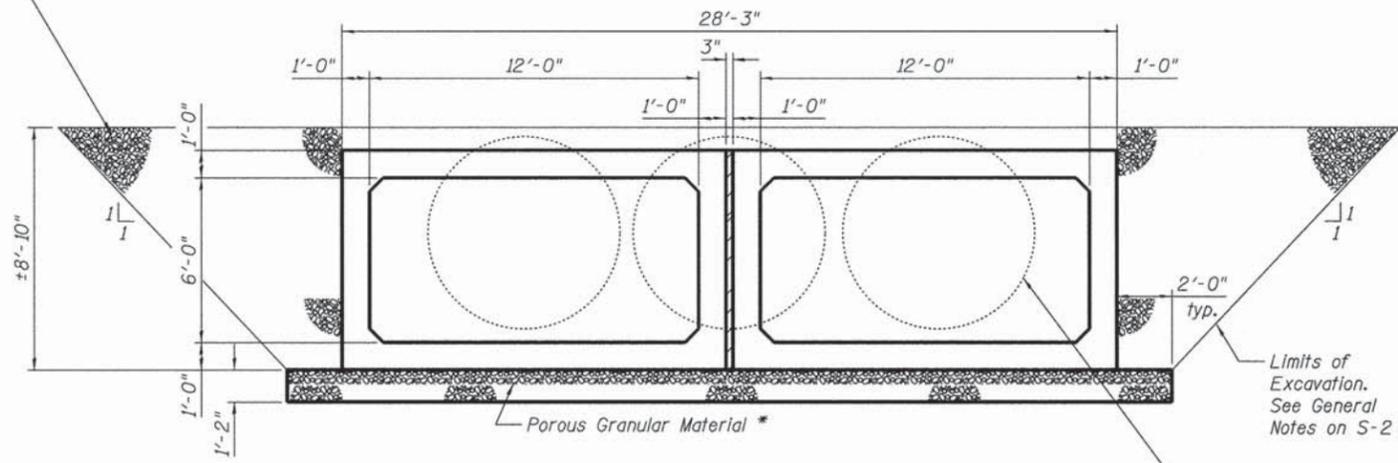
**LONGITUDINAL SECTION**

Exist. 8" VCP Sanitary Sewer (Lake in the Hills Sanitary District)

Cast in place Concrete End Section, typ.

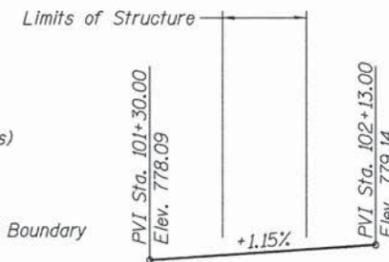


**PLAN**



**SECTION THRU PRECAST BARREL**

\* Furnished and installed under the pay item "Precast Concrete Box Culverts" (Section 540 of the Standard Specifications and the BDE Special Provision "Concrete Box Culverts with Skews < 30 Degrees Regardless of Design Fill and Skews > 30 Degrees with Design Fills > 5 Feet")



**PROFILE GRADE**  
(along E roadway)



**LOCATION SKETCH**

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**PRECAST UNITS**

f'c = 5,000 psi  
fy = 60,000 psi (Welded wire fabric)

**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.



To the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO Standard Specifications for Highway Bridges".

Structural Engineer Expires: 11/30/2014  
HRGreen

**GENERAL PLAN AND ELEVATION**

**JESSIE ROAD OVER**

**CRYSTAL CREEK**

**SECTION NO. 11-00035-00-BR**

**M.S. 4180**

**McHENRY COUNTY**

**STA. 101+73.08**

**EXISTING SN.: 056-6400**

**PROPOSED SN.: 056-6404**

**WATERWAY INFORMATION**

Drainage Area = 11.56 sq. mi. Low Grade Elev. 777.74 @ Sta. 101+00.00									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		Prop.
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
	10	378	74	105	774.50	2.5	0.0	777.00	773.60
Design	30	600	87	120	775.10	3.7	0.0	778.80	774.60
Base	100	981	104	144	776.10	3.6	0.0	779.70	776.10
Max. Calc.	500	1,484	115	144	777.80	2.5	1.1	780.30	778.90

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevations (ft.)		
	D.S. INVERT	U.S. INVERT
Q100	766.50	766.58
Q500	766.50	766.58

COMPANY NAME: HRGreen  
PROJECT CONTACT: Kevin M. Arff  
CLIENT: Cook County, IL  
PROJECT: Jessie Rd. Over Crystal Creek  
FILE NAME: 11-00035-00-BR.dwg  
PLOT DRIVER: pdfplotter  
PLOT TABLE: standard-trans.tbl



USER NAME = whood  
DESIGNED - KMA  
CHECKED - RGD  
DRAWN - WJH  
CHECKED - 10/17/13  
PLOT SCALE =  
PLOT DATE = 10/17/2013

REVISIONS:  
REVISOR: -  
REVISION: -  
REVISOR: -  
REVISION: -  
REVISOR: -  
REVISION: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET NO. S-1 OF S-5 SHEETS

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4180	11-00035-00-BR	McHENRY	21	13

CONTRACT NO. 63877  
ILLINOIS FED. AID PROJECT

**GENERAL NOTES**

1. PRECAST CONCRETE BOX CULVERTS, 12'x6' shall conform to the requirements of Article 540.06 of the Standard Specifications, the special Provisions and the applicable requirements of ASTM C1577.

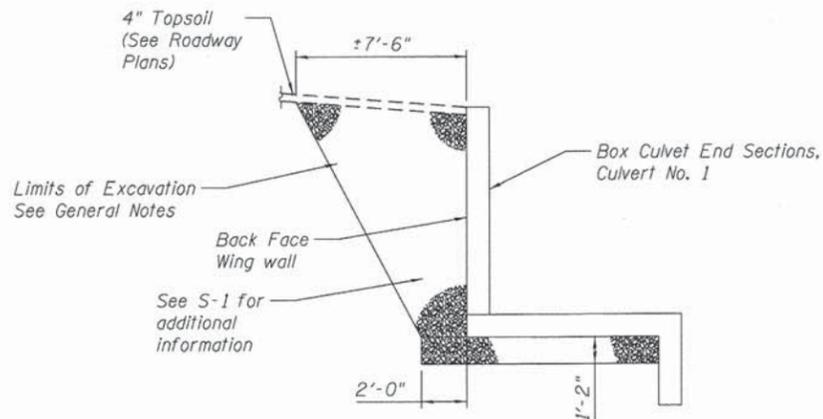
Excavation and backfill required for placement of the PRECAST CONCRETE BOX CULVERTS shall be in accordance with Article 540.06, the details in the plans and the Special Provisions. Cost included in PRECAST CONCRETE BOX CULVERTS, 12' X 6'. If additional excavation and backfill is required under the proposed box culvert due to unsuitable soils (as determined by the engineer), this shall be paid at the contract unit price for REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, and POROUS GRANULAR BACKFILL, respectively (See Sheet 3 of the Roadway Plans for General Notes regarding additional quantities that may be deducted if not needed). The cost for POROUS GRANULAR MATERIAL under the PRECAST CONCRETE BOX CULVERT, 12'x6' is included in the cost of PRECAST CONCRETE BOX CULVERTS, 12'x6'.

The minimum precast concrete strength shall be 5,000 psi.

Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

Fill varies 1' to 1'-6"

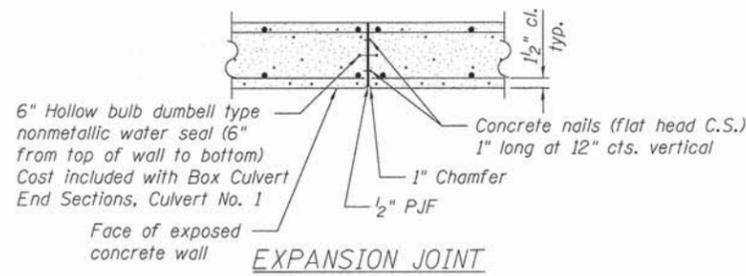
2. BOX CULVERT END SECTIONS, CULVERT NO. 1 shall be paid for as noted in Article 540.08, and The Contract Unit Price for BOX CULVERT END SECTIONS, CULVERT NO. 1 shall include all porous granular bedding material under the end section aprons, cast in place wingwalls, headwall/parapets, and aprons, reinforcement, excavation, backfill, and preformed joint filler.
3. Contractor shall maintain streamflow in accordance with the Standard Specifications Article 502.
4. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
5. Reinforcement bars designated (E) shall be epoxy coated
6. Diversion and Construction activities shall not be permitted to cause water levels upstream to rise more than 2'-0" above the normal pool, or above elevation = 772.33



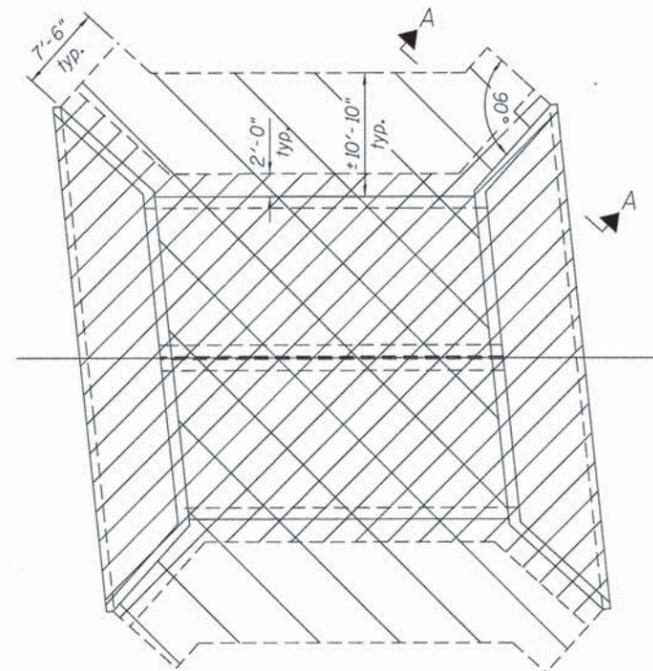
SECTION A-A

**INDEX OF SHEETS**

- S-1 General Plan and Elevation
- S-2 Bill of Materials and General Notes
- S-3 End Section Details
- S-4 End Section Details
- S-5 Boring Logs



EXPANSION JOINT



GRANULAR MATERIAL PLAN LIMITS

See Section Thru Precast Barrel on S-1 for additional information

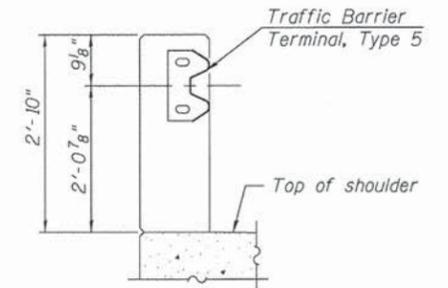
- Limits of Porous Granular Material under culvert and end sections
- Limits of Porous Granular Material backfill next to and on top of culvert

**TOTAL BILL OF MATERIAL**

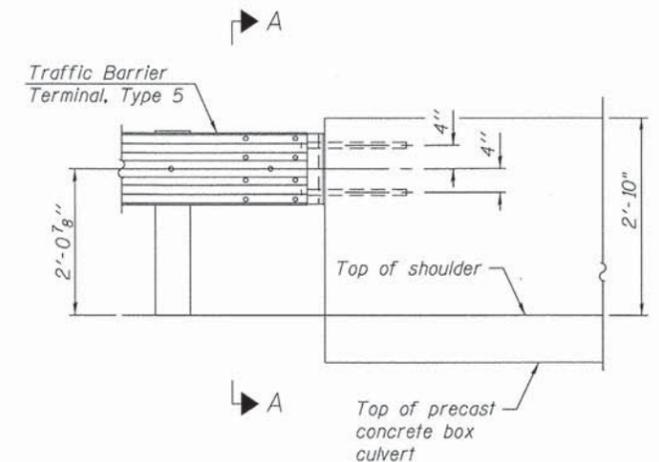
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		165	165
Filter Fabric	Sq. Yd.		165	165
Protective Coat	Sq. Yd.	45		45
Name Plates	Each	1	-	1
Box Culvert End Sections, Culvert No. 1	Each	2		2
Expansion Bolts 3/4 Inch	Each	42	-	42
Precast Concrete Box Culverts, 12' X 6'	Foot	60		60
Dewatering Structure No. 1	Each	-	2	2

CRYSTAL CREEK  
BUILT 20\_\_ BY  
VILLAGE OF LAKE IN THE HILLS  
SEC. 11-00035-00-BR  
STATION 101+73.08  
STR. NO. 056-6404 LOADING HL-93

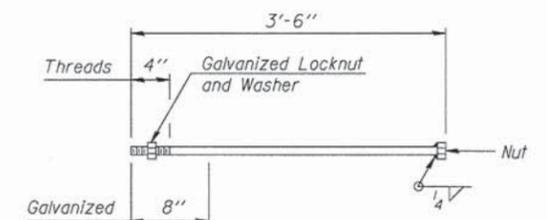
NAME PLATE  
See Std. 515001



SECTION A-A



ELEVATION



1" φ ANCHOR BOLT  
Cost included in Box Culvert End Sections

COMPANY NAME: Kevin M. Arft  
PROJECT CONTACT: Kevin M. Arft  
DATE PLOTTED: 11/1/2013 11:30:26 AM  
FILE NAME: 8620065-86p001.dgn  
PLOT DRIVER: pldrvr  
PEN TABLE: standard-trans.tbl



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	CHECKED - RGD	REVISED -
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PLOT DATE = 11/1/2013	CHECKED - 11/1/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIALS AND GENERAL NOTES  
JESSIE ROAD OVER CRYSTAL CREEK

SHEET NO. S-2 OF S-5 SHEETS

M.S. RTE. 4180	SECTION 11-00035-00-BR	COUNTY MCHENRY	TOTAL SHEETS 21	SHEET NO. 14
CONTRACT NO. 63877			ILLINOIS FED. AID PROJECT	

TBT Type 6,  
See Highway  
Standard 631031

4-#4 e(E) bars each face  
See Section B-B next sheet

29-#6 d<sub>2</sub>(E) bars at 12" cts. Front Face  
29-#4 d<sub>3</sub>(E) bars at 12" cts. Back Face

See Sheet S-2 for  
TBT Type 5 Anchor  
Rods

Construction Joint  
See Section B-B  
next sheet

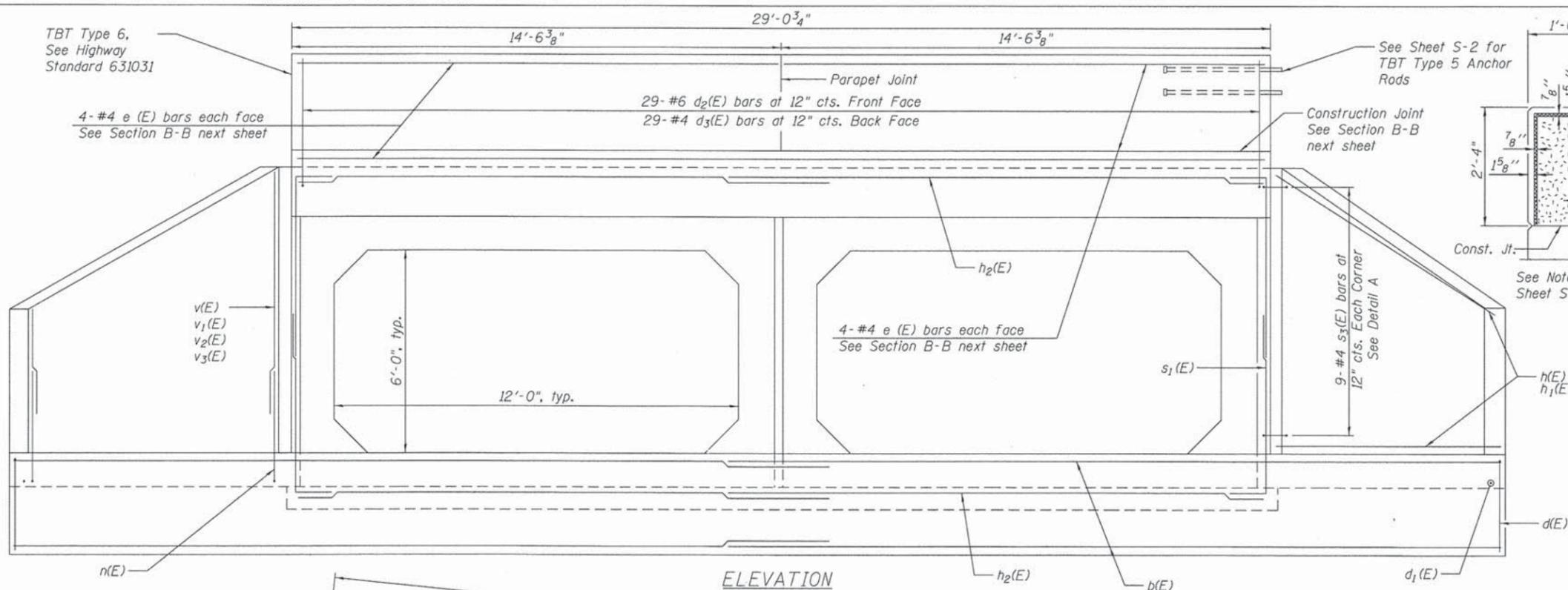
Non-staining gray one component  
non-sag elastomeric gun grade  
polyurethane sealant meeting the  
requirements of ASTM C-920,  
Type S, Grade NS, Class 25,  
Use T with a 5/8" backer rod.

2" Preformed Self-  
Expanding Cork Joint Filler  
according to Article 1051.07  
of the Std. Spec. Cost  
included with Concrete  
Superstructure.

PARAPET JOINT DETAILS

See Note 1  
Sheet S-4

Top of shoulder



ELEVATION

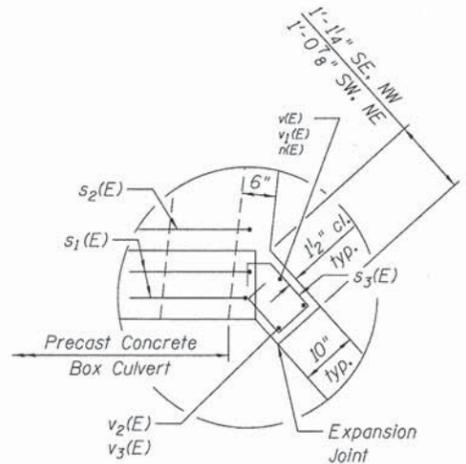
30-#6 a(E) bars at 12" cts. Top  
30-#5 a<sub>1</sub>(E) bars at 12" cts. Bottom  
28'-3"

30-#4 s(E) bars at 12" cts. Bottom of End Section  
(See Half Side Elevation next sheet)

4x2-#5 b<sub>1</sub>(E) bars at  
12" cts. Top and Bottom

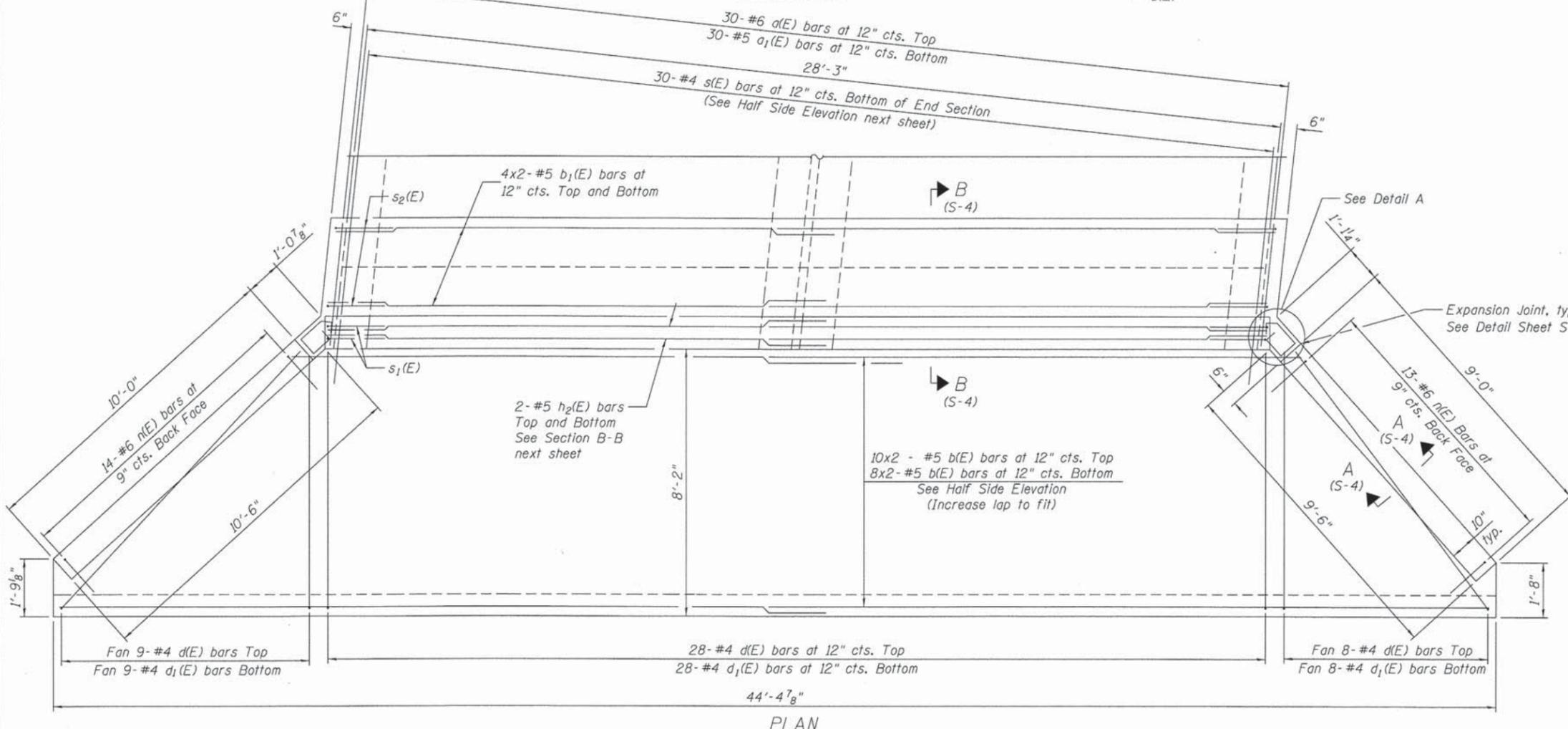
B  
(S-4)

See Detail A



DETAIL A

Expansion Joint, typ.  
See Detail Sheet S-2



PLAN

Fan 9-#4 d(E) bars Top  
Fan 9-#4 d<sub>1</sub>(E) bars Bottom

28-#4 d(E) bars at 12" cts. Top  
28-#4 d<sub>1</sub>(E) bars at 12" cts. Bottom

Fan 8-#4 d(E) bars Top  
Fan 8-#4 d<sub>1</sub>(E) bars Bottom

COMPANY NAME: Kevin M. Kraft  
CLIENT CONTACT: Steve of Lake in the Hills  
DATE PLOTTED: 11/1/2013 10:02:29 AM  
FILE NAME: 861200455-Esd-01.dgn  
PLOT DRIVER: pdfLst  
PEN TABLE: standard-trans.tbl



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	CHECKED - RGD	REVISED -
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PLOT DATE = 11/1/2013	CHECKED - 11/1/13	REVISED -

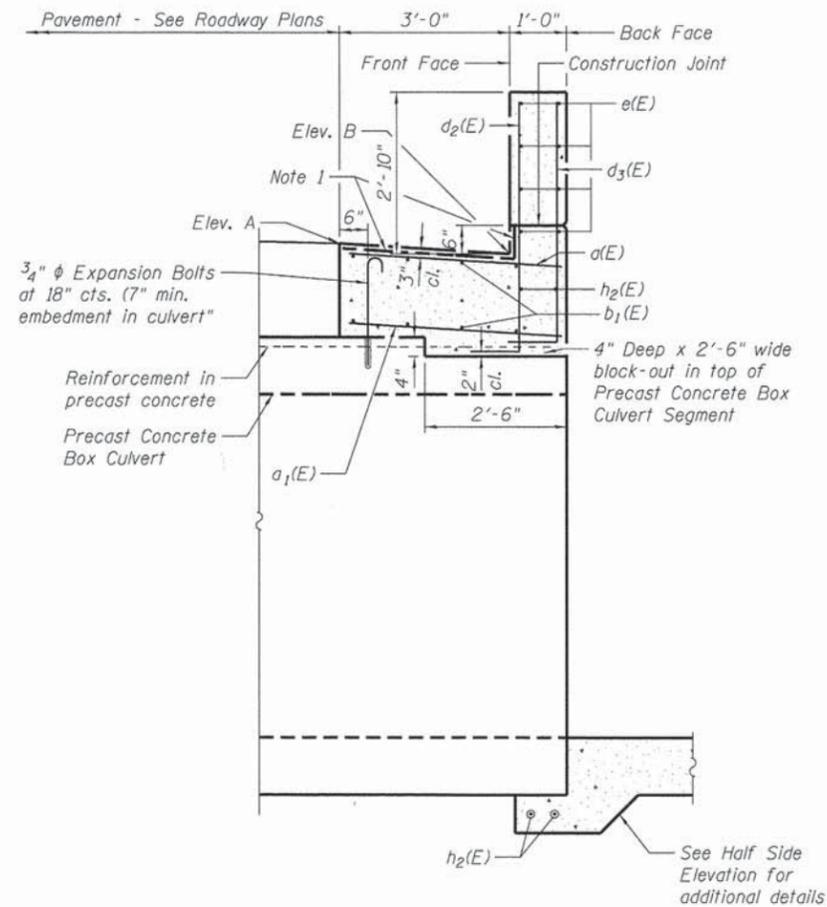
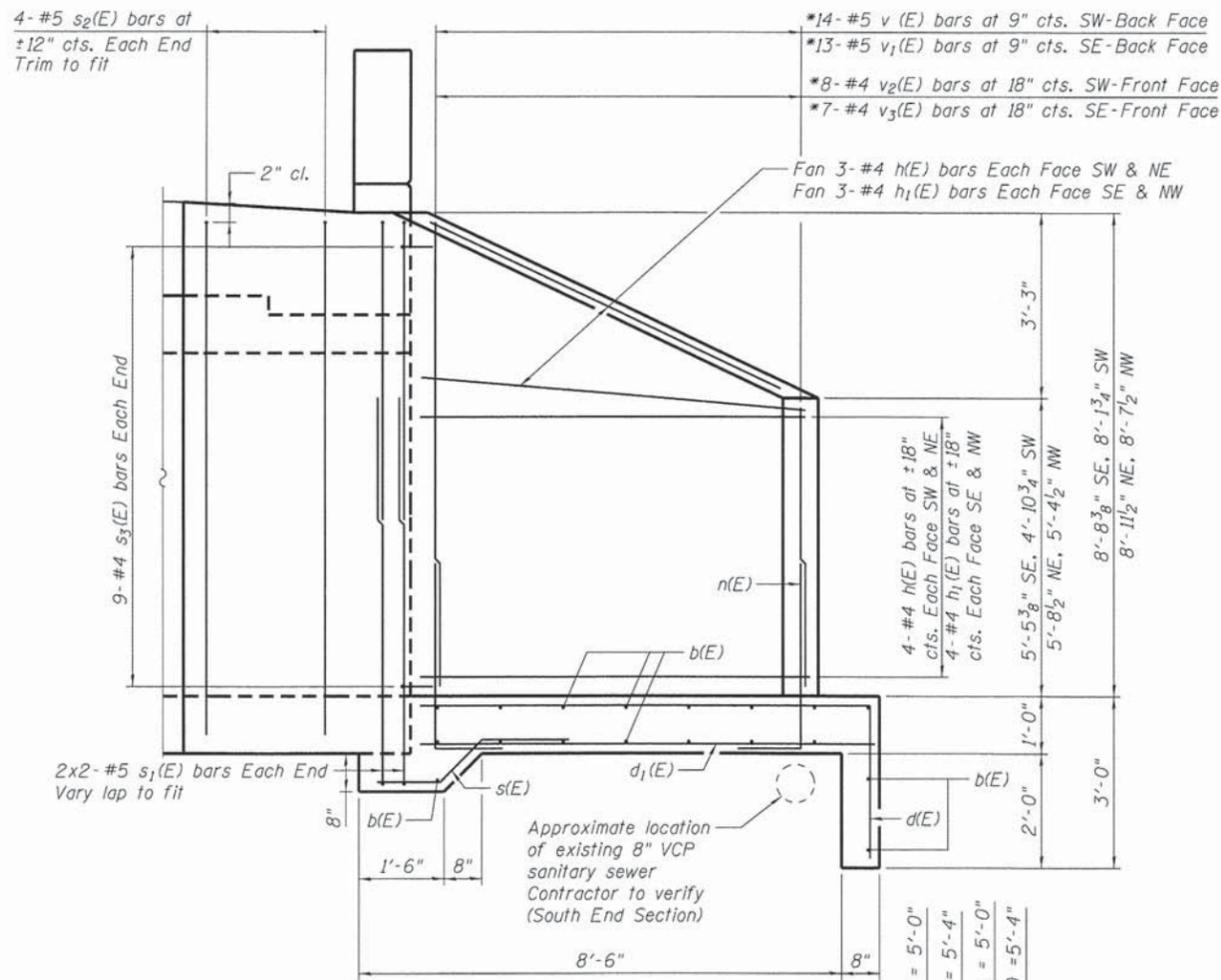
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

END SECTION DETAILS  
JESSIE ROAD OVER CRYSTAL CREEK

SHEET NO. S-3 OF S-5 SHEETS

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4180	11-00035-00-BR	McHENRY	21	15
				CONTRACT NO. 63877

ILLINOIS FED. AID PROJECT



**MINIMUM BAR LAP**

- #4 bar = 2'-7"
- #5 bar = 3'-3"
- #6 bar = 3'-10"

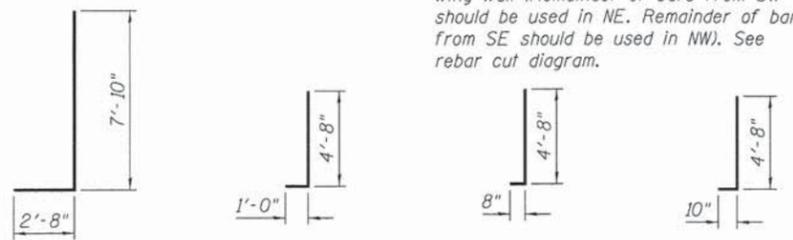
**BILL OF MATERIAL FOR TWO END SECTIONS**

Bar	No.	Size	Length	Shape	
a (E)	60	#6	3'-9"	—	
a1(E)	60	#5	3'-9"	—	
b (E)	72	#5	23'-8"	—	
b1(E)	32	#5	16'-2"	—	
d (E)	90	#4	10'-6"	J	
d1(E)	90	#4	7'-10"	—	
d2(E)	58	#6	5'-8"	J	
d3(E)	58	#4	5'-4"	J	
e(E)	32	#4	14'-2"	—	
h(E)	28	#4	9'-9"	—	
h1(E)	28	#4	8'-9"	—	
h2(E)	16	#5	16'-2"	—	
n(E)	54	#6	5'-6"	J	
s(E)	60	#4	4'-8"	—	
s1(E)	16	#5	10'-0"	┌	
s2(E)	16	#5	12'-9"	┌	
s3(E)	36	#4	3'-1"	⬆	
v(E)	14	#5	13'-1"	—	
v1(E)	13	#5	13'-4"	—	
v2(E)	8	#4	13'-1"	—	
v3(E)	7	#4	13'-4"	—	
Box Culvert End Sections, Culvert No. 1				Each	2
Reinforcement Bars, Epoxy Coated				Pound	7,210

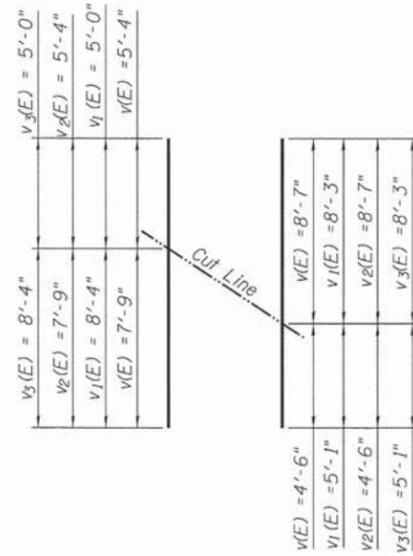
**SECTION B-B**

**HALF SIDE ELEVATION**

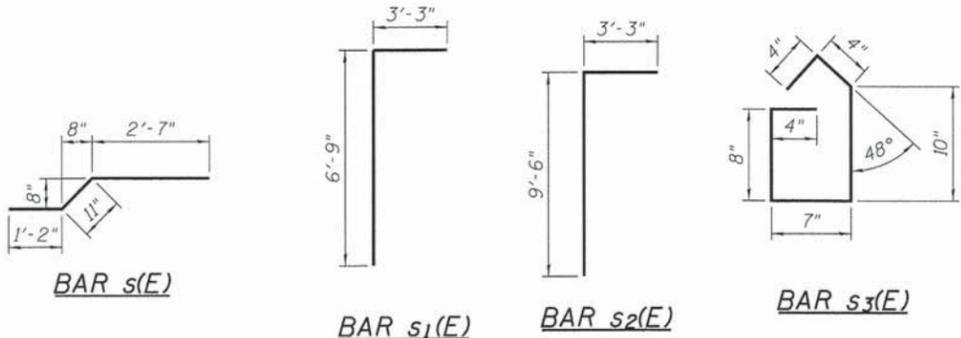
\* Order v(E), v1(E), v2(E) and v3(E) bars full length. Cut to fit slope and use remainder of bars in opposite corner wing wall (Remainder of bars from SW should be used in NE. Remainder of bars from SE should be used in NW). See rebar cut diagram.



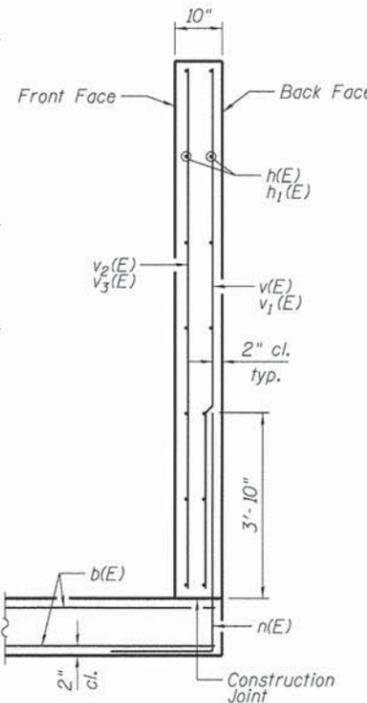
**BAR d(E)    BAR d2(E)    BAR d3(E)    BAR n(E)**



**REBAR CUT DIAGRAM**



**BAR s(E)    BAR s1(E)    BAR s2(E)    BAR s3(E)**



**SECTION A-A**

**ELEVATION TABLE**

Location	Elev. A	Elev. B
101+57.22 RT (SW Corner)	777.82	777.64
101+59.53 LT (NW Corner)	778.29	778.11
101+77.08 LT	778.52	778.34
101+77.08 RT	778.27	778.09
101+86.63 RT (SE Corner)	778.38	778.2
101+88.94 LT (NE Corner)	778.64	778.46

**LEGEND**

- SW = Southwest wing wall
- SE = Southeast wing wall
- NW = Northwest wing wall
- NE = Northeast wing wall

Notes:  
1. 1/4" x 3/4" Formed joint with Bridge Relief Joint Sealer (See Spec. Prov.) full width along joint - back rod not required. Provide at parapet joint location. Cost included in End Sections.

COMPANY NAME: Kevin M. Arft  
PROJECT CONTACT: Village of Lake in the Hills  
CLIENT: 10/17/2013 10:56:48 AM  
DATE PLOTTED: 8/2/2015 8:50:02 AM  
FILE NAME: pdf\_087-111.rvt  
PLOT DRIVER: srtender-trans.tbl



USER NAME = whoad	DESIGNED - KMA	REVISED -
DESIGNED - KMA	CHECKED - RGD	REVISED -
PLLOT SCALE =	DRAWN - WJH	REVISED -
PLLOT DATE = 10/17/2013	CHECKED - 10/17/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

END SECTION DETAILS  
JESSIE ROAD OVER CRYSTAL CREEK

SHEET NO. S-4 OF S-5 SHEETS

M.S. RTE. 4180	SECTION 11-00035-00-BR	COUNTY McHENRY	TOTAL SHEETS 21	SHEET NO. 16
CONTRACT NO. 63877				ILLINOIS FED. AID PROJECT

MSET PROJECT NO.: 12259		LOG OF BORING NO. SB-1		Page 1 of 1			
PROJECT: Jessie Road over Crystal Creek		SITE LOCATION: Lake In The Hills, IL					
BORING LOCATION: NE Corner of Culvert		CLIENT: HR Green					
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE NO.	TESTS	REMARKS	
0		Pavement: 7" Bituminous Concrete over 6" Grey Crushed Limestone	102.0				
0		Brown SAND and GRAVEL mixed with Silty CLAY: FILL, slightly dense	102.0	SS 1	9 9 -- --		
4		Black CLAY (CH), firm	96.5	SS 2	6 11 -- --		
8		Grey Silty SAND and GRAVEL (SM-GM), medium dense	94.5	SS 3	5 38 71 0.93		
12		Pinkish-Brown Silty CLAY, little Sand and Gravel (CL), stiff to very stiff	90.5	SS 5A	8 14 -- --		
12			88.9	SS 5B	9 14 120 1.16		
16				SS 6	13 11 128 2.02		
20				SS 7	17 14 -- 2.0 (Op)		
24		Brown and Grey Silty CLAY, little to some Sand and Gravel (CL), very stiff	80.0	SS 8	13 12 122 1.78		
24		End of Boring at 25'	77.0	SS 9	31 10 128 2.02	Hole Caved at 22.9' Upon Completion	
ATTACHMENT J-9							
WATER LEVEL OBSERVATIONS, ft.		BORING STARTED: 4/24/12		BORING COMPLETED: 4/24/12			
DURING DRILLING: 7.5'		LOGGED BY: SPK		BORING METHOD: CFA			
IMMEDIATELY AFTER DRILLING: 8.8'		MSET					
DELAYED READING AFTER							

MSET PROJECT NO.: 12259		LOG OF BORING NO. SB-2		Page 1 of 1			
PROJECT: Jessie Road over Crystal Creek		SITE LOCATION: Lake In The Hills, IL					
BORING LOCATION: SW Corner of Culvert		CLIENT: HR Green					
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE NO.	TESTS	REMARKS	
0		Pavement: 7" Bituminous Concrete over 5" Brown Sand and Gravel	100.9				
0		Brown SAND and GRAVEL mixed with Silty CLAY: FILL, medium dense	99.9	SS 1	13 6 -- --		
4		Dark Brown Silty CLAY: FILL, firm	97.9	SS 2	3 26 -- 0.5 (Op)		
8		Dark Grey to Grey SAND (f-c) and GRAVEL (SP-GP), medium dense	95.4	SS 3	25 11 -- --		
12		Pinkish-Brown Silty CLAY, little Sand and Gravel (CL), stiff to very stiff	88.9	SS 5A	21 12 -- --		
12			88.9	SS 5B	12 13 -- 3.5 (Op)		
16				SS 6	15 11 127 1.16		
20				SS 7	17 11 123 2.72		
24		Brown and Grey Silty SAND (SM), dense	77.4	SS 8	21 12 125 3.49		
24		End of Boring at 25'	75.9	SS 9	43 10 -- --	Hole Caved at 15.3' Upon Completion	
ATTACHMENT J-10							
WATER LEVEL OBSERVATIONS, ft.		BORING STARTED: 4/24/12		BORING COMPLETED: 4/24/12			
DURING DRILLING: 6.3'		LOGGED BY: SPK		BORING METHOD: CFA			
IMMEDIATELY AFTER DRILLING: 7.7'		MSET					
DELAYED READING AFTER							

MSET PROJECT NO.: 12259		LOG OF BORING NO. B-3		Page 1 of 1			
PROJECT: Jessie Road over Crystal Creek		SITE LOCATION: Lake In The Hills, IL					
BORING LOCATION: Approach, West Side of Culvert		CLIENT: HR Green					
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE NO.	TESTS	REMARKS	
0		Pavement: 6" Bituminous Concrete over 15" Brown Sand and Gravel	100.9				
2.5		Black CLAY (CH), firm	98.9	SS 1	12 4 -- --		
5				SS 2	4 23 -- 0.5 (Op)		
7.5		Olive-Grey CLAY (CH), firm	95.4	SS 3A	4 22 -- 0.5 (Op)		
7.5		Grey SAND (f-c) and GRAVEL (SP-GP), slightly dense	94.4	SS 3B	8 16 -- --		
10		Pinkish-Brown Silty CLAY, little Sand and Gravel (CL), very stiff	92.4	SS 4	7 10 122 2.48		
10		End of Boring at 10'	90.9			Hole Caved at 7.1' Upon Completion	
ATTACHMENT J-11							
WATER LEVEL OBSERVATIONS, ft.		BORING STARTED: 4/24/12		BORING COMPLETED: 4/24/12			
DURING DRILLING: 7.0'		LOGGED BY: SPK		BORING METHOD: CFA			
IMMEDIATELY AFTER DRILLING: 6.7'		MSET					
DELAYED READING AFTER							

MSET PROJECT NO.: 12259		LOG OF BORING NO. B-4		Page 1 of 1			
PROJECT: Jessie Road over Crystal Creek		SITE LOCATION: Lake In The Hills, IL					
BORING LOCATION: Approach, East Side of Culvert		CLIENT: HR Green					
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE NO.	TESTS	REMARKS	
0		Pavement: 5-1/2" Bituminous Concrete over 6-1/2" Brown Sand and Gravel	102.3				
2.5		Brown Silty CLAY and Sand, little Gravel: FILL, stiff	101.1	SS 1	11 8 122 3.0 (Op)		
5		Black CLAY (CH), firm	97.8	SS 2A	5 8 113 1.94		
5		Brown and Grey Silty CLAY, trace Sand and Gravel (CL), stiff to very stiff	96.5	SS 2B	8 21 100 0.78		
7.5		few thin Sand seams		SS 3	3 19 110 1.86		
10		End of Boring at 10'	92.3	SS 4	7 14 -- 2.75 (Op)		
ATTACHMENT J-12							
WATER LEVEL OBSERVATIONS, ft.		BORING STARTED: 4/24/12		BORING COMPLETED: 4/24/12			
DURING DRILLING: 8.0'		LOGGED BY: SPK		BORING METHOD: CFA			
IMMEDIATELY AFTER DRILLING: 8.8'		MSET					
DELAYED READING AFTER							

ELEVATION DATUM EQUATION: ELEV. 102.0 (SOIL BORING DATUM) = ELEV. 778.55 (NAVD88)

COMPANY NAME: Kevin M. Artt  
 PROJECT CONTACT: Village of Lake In The Hills  
 CLIENT: 10/17/2013 10:56:50 AM  
 DATE PLOTTED: 8/12/2015 5:01:00 PM  
 FILE NAME: psf.BET-T117.dgn  
 PLOT DRIVER: strander@trons.tol  
 PEN TABLE:



HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322  
 USER NAME = whood  
 DESIGNED - KMA  
 CHECKED - RGD  
 DRAWN - WJH  
 CHECKED - 10/17/2013

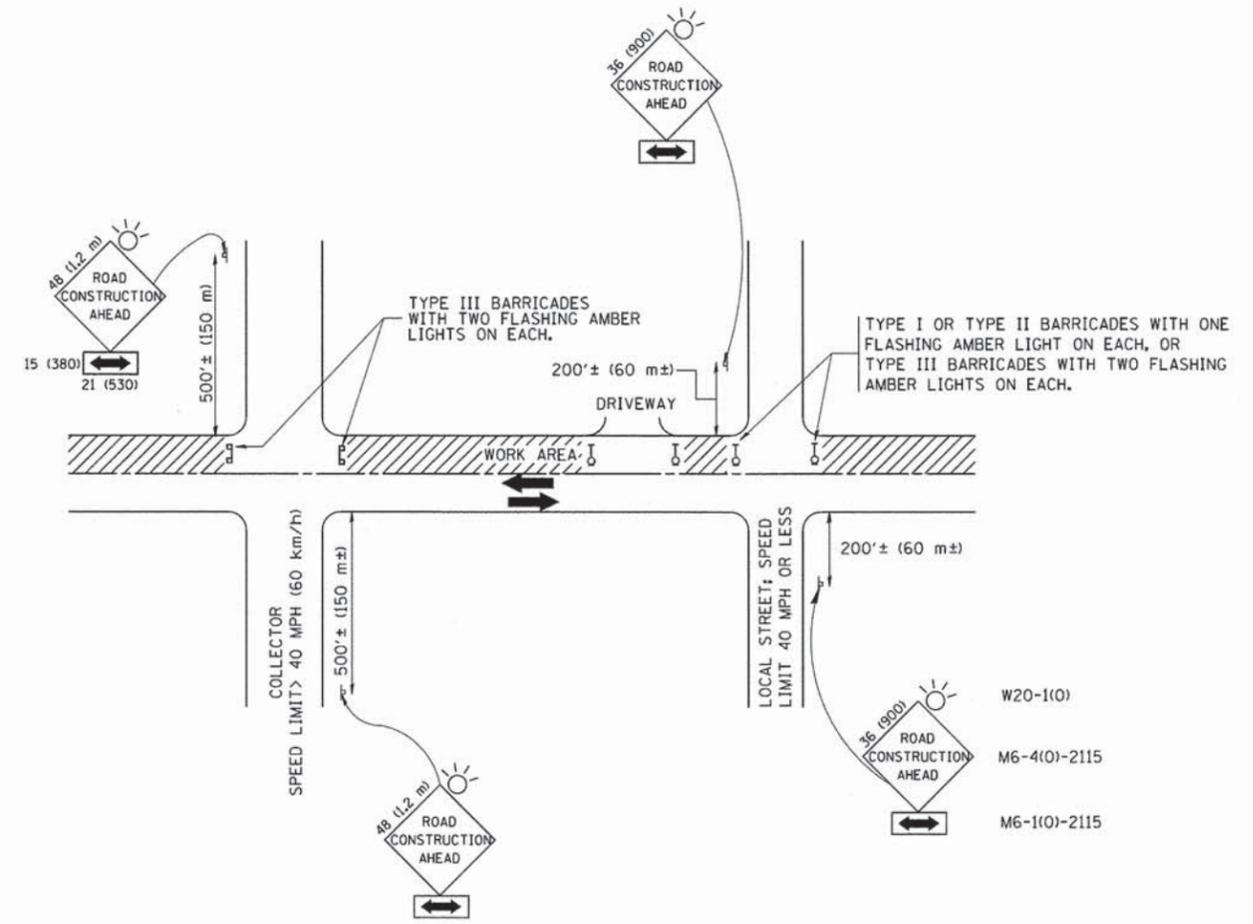
DESIGNED - KMA  
 CHECKED - RGD  
 DRAWN - WJH  
 CHECKED - 10/17/2013

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
 JESSIE ROAD OVER CRYSTAL CREEK

SHEET NO. S-5 OF S-5 SHEETS

M.S. RTE. 4180	SECTION 11-00035-00-BR	COUNTY McHENRY	TOTAL SHEETS 21	SHEET NO. 17
CONTRACT NO. 63877				
[ILLINOIS] FED. AID PROJECT				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
  1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
  3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
 

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

COMPANY NAME: Kevin M. Arff  
 PROJECT CONTACT: Village of Lake in the Hills  
 CLIENT: 10/17/2003 10:57:30 AM  
 DATE PLOTTED: 86120455-041-01.dgn  
 FILE NAME: pdf2.dwt-1171.dwt  
 PLOT DRIVER: s10ndorgr-1171.dwt  
 PEN TABLE:

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		PLOT SCALE = 50.000 "/ IN.	REVISED - A. HOUSEH 10-15-96
		PLOT DATE = 1/4/2008	REVISED - T. RAMMACHER 01-06-00

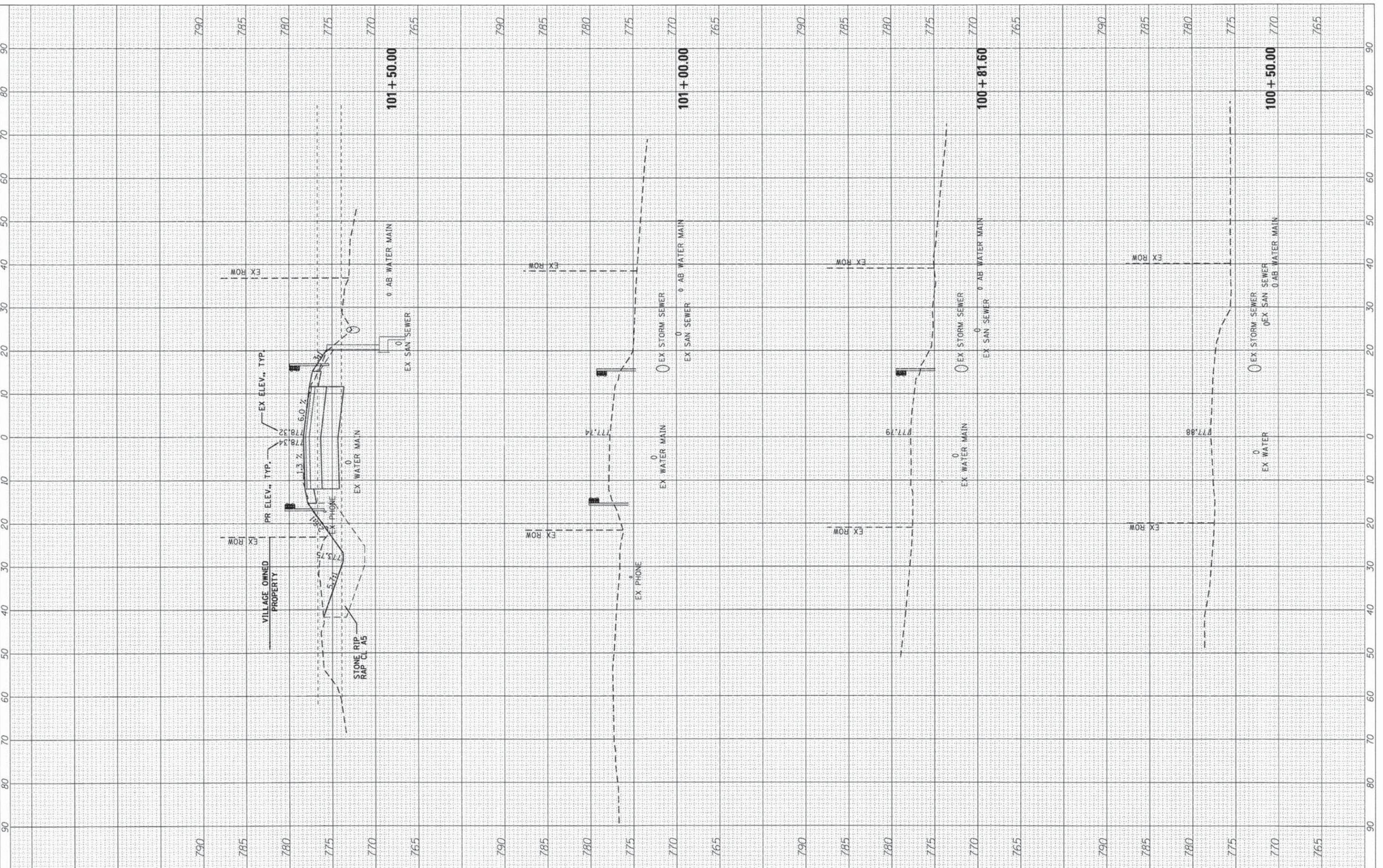
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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

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

M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4180	11-00035-00-BR	McHENRY	21	18
<b>TC-10</b>			CONTRACT NO. 63877	
FED. ROAD DIST. NO. 2 (ILLINOIS) FED. AID PROJECT				

COMPANY NAME: Kevin M. Arff  
 PROJECT CONTACT: Village of Lake in the Hills  
 CLIENT: 11/17/2013 11:50:12 AM  
 DATE PLOTTED: 86128455-XS.dgn  
 FILE NAME: 86128455-XS.dgn  
 PLOT NUMBER: 21  
 PEN TABLE: Standard Trans.tbl



USER NAME = whood	DESIGNED - KMA	REVISED -
FILE NAME 86128455-XS.dgn	DRAWN - WJH	REVISED -
PLOT SCALE = 10Hx5V	CHECKED - RGD	REVISED -
PLOT DATE = 11/1/2013	DATE - 11/1/13	REVISED -

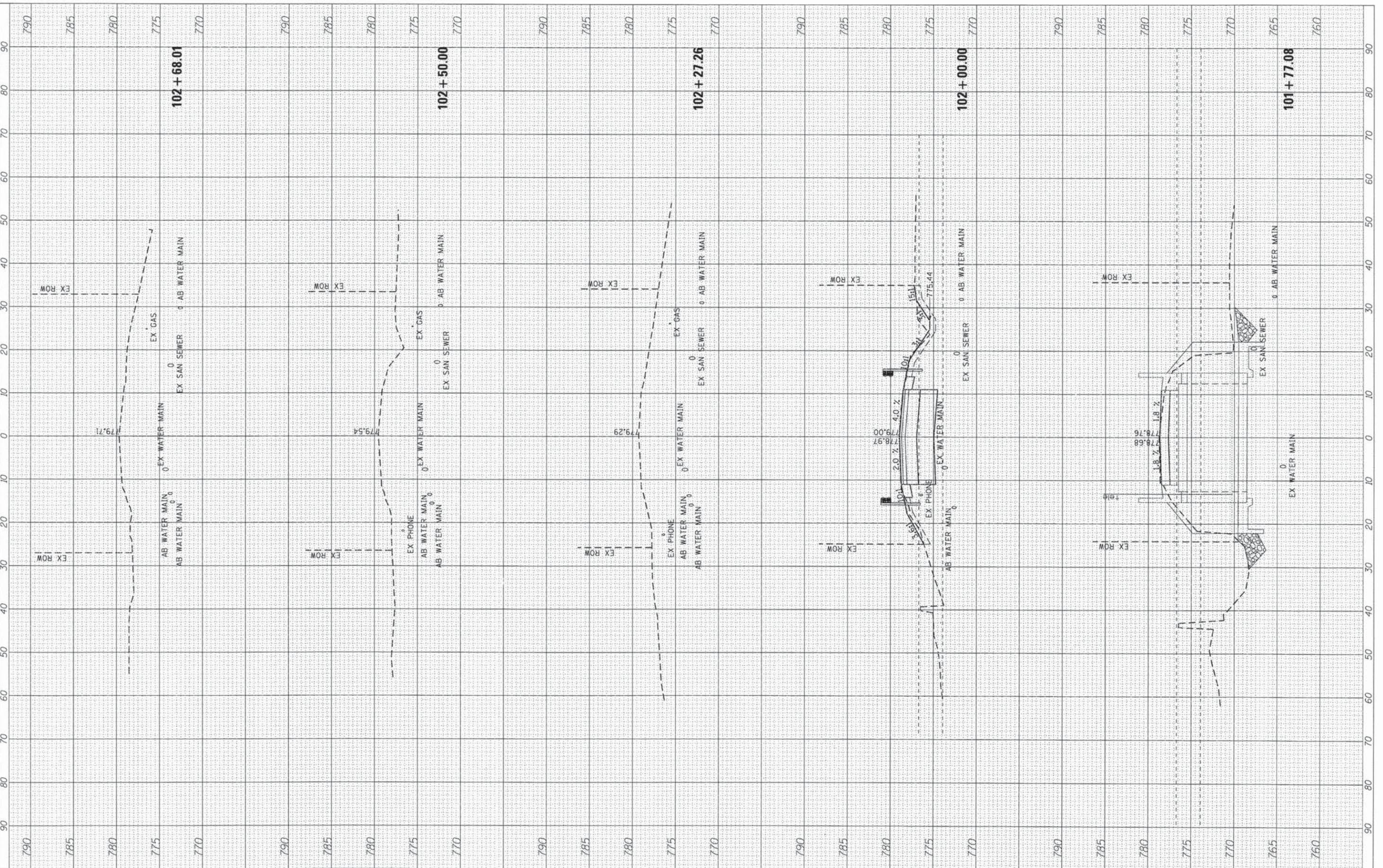
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 JESSIE ROAD OVER CRYSTAL CREEK**

SCALE: 10Hx5V    SHEET NO. OF SHEETS    STA. 100+50.00 TO STA. 101+50.00

M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3634	10-00573-00-BR	Winnebago	21	19
CONTRACT NO. 63877				
FED. ROAD DIST. NO. 2 (ILLINOIS) FED. AID PROJECT				

COMPANY NAME: Kevin M. Arff  
 PROJECT CONTACT: Kevin M. Arff  
 CLIENT: Illinois Department of Transportation  
 FILE NAME: 86120455-XS.dgn  
 PLOT DRIVER: plot.dwt  
 STANDARD: trans.tbl



USER NAME = whood	DESIGNED - KMA	REVISED -
FILE NAME = 86120455-XS.dgn	DRAWN - WJH	REVISED -
PLOT SCALE = 10Hx5V	CHECKED - RGD	REVISED -
PLOT DATE = 11/1/2013	DATE - 11/1/13	REVISED -

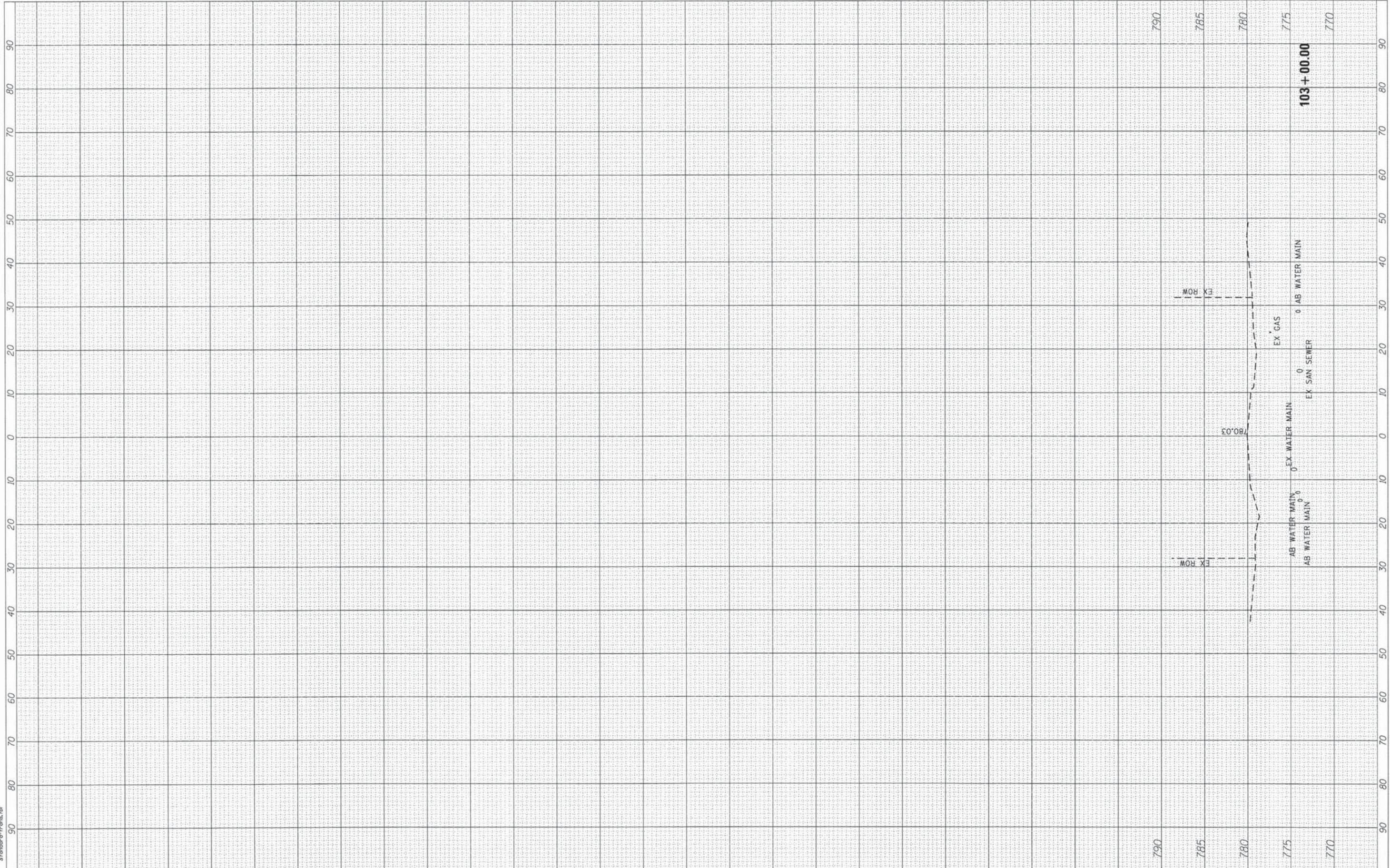
HRGreen.com Illinois Professional Design Firm #184-011322
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS			
JESSIE ROAD OVER CRYSTAL CREEK			
SCALE: 10Hx5V	SHEET NO. OF SHEETS	STA. 101+77.08 TO STA. 102+68.01	

M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3634	10-00573-00-BR	Winnebago	21	20
CONTRACT NO. 63877				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

COMPANY NAME: Kevin M. Arff  
 PROJECT CONTACT: Wings of Lake in the Hills  
 CLIENT: 11/1/2013 11:00:54 AM  
 DATE PLOTTED: 11/1/2013 11:00:54 AM  
 FILE NAME: 86120455-XS.dgn  
 PLOT DRIVER: standard-ports.tbl  
 PEN TABLE:



USER NAME = whoad	DESIGNED - KMA	REVISED -
FILE NAME 86120455-XS.dgn	DRAWN - WJH	REVISED -
PLOT SCALE = 10H:5V	CHECKED - RGD	REVISED -
PLOT DATE = 11/1/2013	DATE - 11/1/13	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>			
<b>JESSIE ROAD OVER CRYSTAL CREEK</b>			
SCALE: 10H:5V	SHEET NO. OF	SHEETS	STA. 103+00.00 TO STA. 103+00.00

M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3634	10-00573-00-BR	Winnebago	21	21
CONTRACT NO. 63877				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				