09-21-12 LETTING ITEM 020

SHEET NO.	INDEX OF SHEETS
1	COVER SHEET, INDEX OF SHEETS & STATE STANDARDS
2	~~SUMMARY OF QUANTITIES~~ GENERAL NOTES & TYPICAL SECTIONS
2A	SUMMARY OF QUANTITIES
3	EXISTING CONDITIONS – WAGNER ROAD
4	PROPOSED PLAN AND PROFILE – WAGNER ROAD
5	CULVERT ~~REPLACEMENT~~ EXTENSION PLAN – WAGNER ROAD
6	DETOUR PLAN – WAGNER ROAD
7	EROSION AND SEDIMENT CONTROL PLAN – WAGNER ROAD
8	PLAN AND PROFILE – SUNSET RIDGE ROAD
9–10	CROSS-SECTIONS – SUNSET RIDGE ROAD
11–15	DETAILS

DISTRICT DETAILS

TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS AND DRIVEWAYS
TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-21 DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

HIGHWAY STANDARDS LIST

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
604001-03	FRAMES AND LIDS TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630101-~~09~~	GUARDRAIL MOUNTED ON EXISTING CULVERTS
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY FROM PAVEMENT EDGE
701006-03	OFF ROAD OPERATIONS, 2L, 2W, 15'-24' AWAY FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-~~02~~	TRAFFIC CONTROL DEVICES

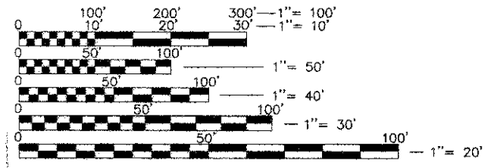
DESIGN DESIGNATION:

FUNCTIONAL CLASSIFICATIONS
SUNSET RIDGE ROAD = COLLECTOR
WAGNER ROAD = LOCAL STREET

POSTED SPEED LIMIT
SUNSET RIDGE ROAD = 35 M.P.H.
WAGNER ROAD = 20 M.P.H.

DESIGN ADT
SUNSET RIDGE ROAD = 5,000
WAGNER ROAD = 2,400

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 BELOW SCALES MAY BE USED.



J.U.L.I.E
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
CALL 811
811
Know what's below. Call before you dig.

CONTRACT NO: 63729

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

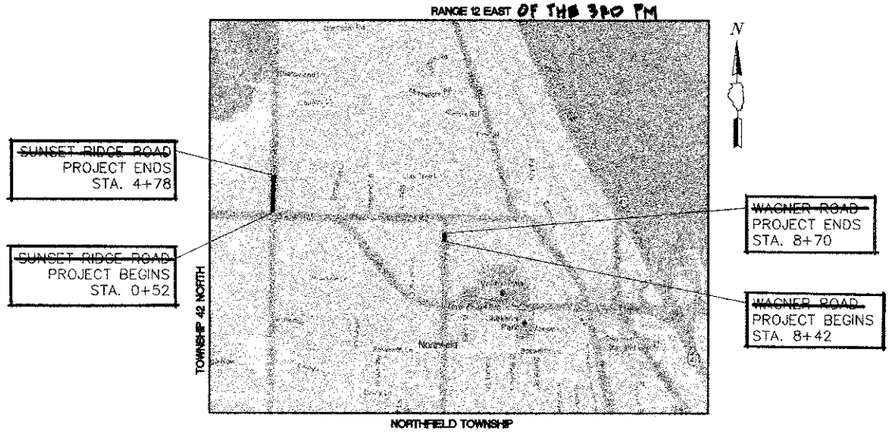
FAU 2777 (SUNSET RIDGE ROAD)
WILLOW ROAD TO MARTIN LANE
SIDEWALK INSTALLATION

WAGNER ROAD
AT CULVERT FOR TRIBUTARY TO CHICAGO RIVER, NORTH BRANCH, MIDDLE FORK
SIDEWALK AND CULVERT IMPROVEMENTS

SECTION NUMBER: 10-00050-00-SW
PROJECT NO.: SRTS-4009 (028)

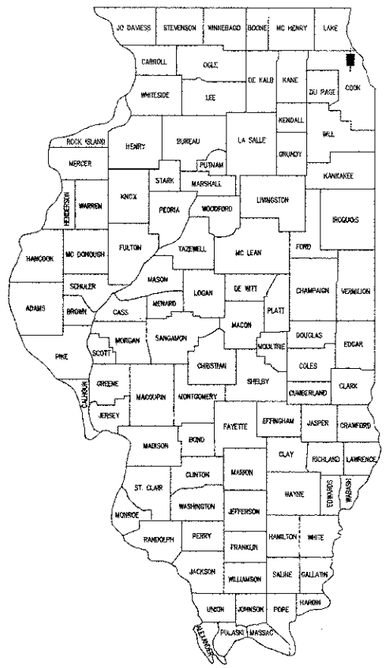
VILLAGE OF NORTHFIELD, ~~ILLINOIS~~
COOK COUNTY
C-40-006-10

LOCATION MAP
(NOT TO SCALE)



PROJECT INFORMATION
SUNSET RIDGE ROAD = 426 FEET (0.081 MI)
WAGNER ROAD = 28 FEET (0.005 MI)
TOTAL = 454 FEET (0.086 MI)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-00050-00-SW	COOK	40	1
		CONTRACT NO. 63729		
	ILLINOIS FED. AID PROJECT			



LOCATION OF SECTION INDICATED THUS: ■

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: _____ 2012
July 16, 2012
VILLAGE OF NORTHFIELD

APPROVED: JULY 10 2012
Dhash S Raymond
SUNSET RIDGE SCHOOL DISTRICT #29

PASSED: JULY 20 2012
C.J. Hat
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW: JULY 23, 2012
John Fatmon
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PROFESSIONAL ENGINEER'S SIGNATURE & SEAL

Patrick J Glenn 7.10.12
PATRICK J. GLENN DATE
EXPIRES: NOVEMBER 30, 2013

PATRICK GLENN 062-054870 STATE OF ILLINOIS
SEAL

GHA GEWALT HAMILTON ASSOCIATES, INC.
850 Forest Edge Drive ■ Vernon Hills, IL 60061
TEL 847.478.9700 ■ FAX 847.478.9701

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" JANUARY 1, 2012 EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, PROJECT SPECIFICATIONS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, NORTH COOK COUNTY SOIL AND WATER CONSERVATION DISTRICT (SWCD), THE VILLAGE OF NORTHFIELD, ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO SHALL GOVERN THIS WORK.

ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. DUE TO THE CONSTRUCTION OPERATION SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, SHALL BE INCLUDED IN THE UNIT PRICE FOR EACH ITEM OF WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.

DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER AND THE VILLAGE.

CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES IT IS ONLY INCLUDED FOR THE CONVENIENCE TO THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, J.U.L.I.E., DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.

MICHAEL NYSTRAND OF THE VILLAGE OF NORTHFIELD (847) 441-3810 AND NORTH COOK COUNTY SOIL AND WATER CONSERVATION DISTRICT SHOULD BE CONTACTED 48 HOURS PRIOR TO THE START OF ANY EXCAVATION.

THE CONTRACTOR SHALL PROTECT EXISTING AND NEW UTILITIES. WHEN REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BRACE AND SUPPORT UTILITIES PROPERLY IN ORDER TO PREVENT SETTLEMENT, DISPLACEMENT, OR DAMAGE TO THE UTILITIES. THE PROTECTION OF THE UTILITIES AS SPECIFIED HEREIN WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM OF WORK.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH RESPECTIVE UTILITIES AND THE ENGINEER.

THE CONTRACTOR SHALL BE MADE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITY FACILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS APPROVED FOR IN THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

THE CONTRACTOR SHALL CONTACT THE IDOT ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK

SOIL EROSION NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ROADS OF MATERIAL THAT IS FROM THE PROJECT. THIS WILL BE DONE AT THE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS MAY BE REQUIRED DUE TO FIELD CONDITIONS.

ALL PROPOSED GREEN AREAS SHALL BE VEGETATED WITHIN 2 MONTHS OF BEING DISTURBED WITH CRITICAL DRAINAGE AREAS REQUIRING IMMEDIATE ATTENTION. ALL GREEN AREAS SHALL RECEIVE 6" OF TOPSOIL, SEED AND EROSION CONTROL BLANKET.

AFTER ACHIEVING PERMANENT VEGETATION, ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DRAINAGE STRUCTURES CLEANED.

THE CONTRACTOR SHALL KEEP A WATER TRUCK AT HIS DISPOSAL FOR THE PURPOSE OF WATERING DOWN SOIL WHICH OTHERWISE MAY BECOME AIRBORNE.

THE CONTRACTOR IS EXPRESSLY ADVISED NOT TO DISTURB AREAS WHICH ARE OUTSIDE THOSE NECESSARY TO PROVIDE THE IMPROVEMENTS AS CALLED FOR IN THE PLANS. IN PARTICULAR, SPECIFIC TREES WILL BE TARGETED FOR PRESERVATION AND ROOT ZONE PROTECTION.

ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT. SILT FENCE, ROCK FILTERS, SLOTTED RISERS, AND OTHER EROSION CONTROL METHODS SHALL BE REPLACED WHEN DAMAGED OR FILLED THROUGHOUT THE LIFE OF THE PROJECT.

PUMPS MAY BE USED AS BYPASS DEVICES BUT IN NO CASE WILL THE WATER BE DIVERTED OUTSIDE THE PROJECT LIMIT.

UTILITY/IEPA NOTES

UNDERGROUND WORK SHALL INCLUDE TRENCHING, DEWATERING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT. CONTRACTOR SHALL PROVIDE "AS BUILT" DRAWINGS OF ALL SEWER AND WATERMAIN INSTALLATIONS.

ALL EXISTING STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH PROPOSED GRADES & LANDSCAPING.

RECONNECT ALL EXISTING TILE LINES FOUND IN THE EXCAVATION TO THE NEW STORM LINES USING WYE OR TEE IN ACCORDANCE WITH UTILITY NOTES. NOTE THE LOCATION ON THE "AS-CONSTRUCTED" DRAWINGS. THIS SHOULD BE INCLUDED IN THE COST OF THE CONTRACT.

PAVING AND GRADING NOTES

ALL PAVEMENT DIMENSIONS ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE INDICATED.

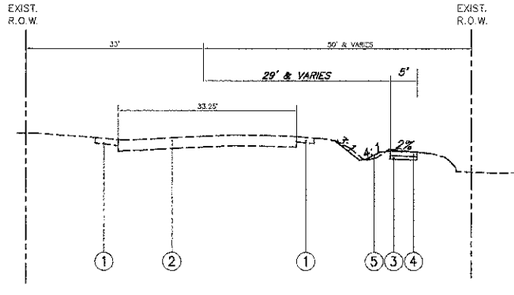
ALL DISTURBED NON-PAVEMENT AREAS SHALL BE ROUGH GRADED. THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION PREVENTION AND REPAIR.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT PATCHING	
CLASS D PATCHES, TYPE II, 4" (HMA BINDER IL-19 MM)	4% @ 70 GYR
HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50 (IL 9.5 mm), 2"	4% @ 50 GYR
TEMPORARY PAVEMENT	
TEMP RAMP (HMA BINDER IL-19 MM), THICKNESS VARIES	4% @ 30 GYR

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN

THE "AC TYPE" FOR NON-POLYMERIZED HMA SHALL BE "PG 64-22" UNLESS OTHERWISE MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



PROPOSED TYPICAL SECTION
STA 0+52 TO STA 5+05, SUNSET RIDGE ROAD

TYPICAL SECTION LEGEND

NO.	DESCRIPTION
1	EXISTING AGGREGATE SHOULDER
2	EXISTING HOT-MIX ASPHALT PAVEMENT
3	PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 4"
4	PROPOSED PCC SIDEWALK, 5"
5	RESTORATION

THE BOUNDARY SHOWN HEREON AND ITS LOCATION WITH RESPECT TO PLANIMETRICS AND TOPOGRAPHY SURVEYED BY GEWALT HAMILTON ASSOCIATES, INC. IS BASED SOLELY ON THE INFORMATION AS PROVIDED BY OTHERS AND MAY OR MAY NOT BE ACCURATE. GEWALT HAMILTON ASSOCIATES, INC. MAKES NO REPRESENTATION AS TO THE ACCURACY OF SUCH INFORMATION AND RECOMMENDS MONUMENTATION OF ALL PROPERTY CORNERS PRIOR TO FINAL DESIGN AND/OR CONSTRUCTION. ALL PROPOSED IMPROVEMENTS ARE TO BE LOCATED AND CONSTRUCTED WITH RESPECT TO THE MONUMENTED BOUNDARY.

Point Table

Point #	Northing	Easting	Elevation	Description
5	1980764.55	1134305.71	626.76	CP-XSW-5
6	1981015.04	1134303.79	626.67	CP-XSW-6
7	1980970.06	1134298.69	626.08	WP-LN-7
322	1980630.54	1134304.92	628.13	CP-XSW-322

BENCHMARK:
SOURCE BENCHMARK 1: BM# 322
CROSS NOTCH ON THE WAGNER ROAD SIDEWALK SQUARE IMMEDIATELY WEST OF THE LIGHT POLE, IMMEDIATELY SOUTH OF THE COMMUNITY CENTER DRIVEWAY.
ELEVATION: 628.127
DATUM: NAVD 88'

(VILLAGE OF NORTHFIELD BENCHMARKS)

Point Table

Point #	Northing	Easting	Elevation	Description
1	1981789.85	1131607.75	651.25	WP-LN-1
2	1981552.40	1131697.96	649.95	WP-LN-2
321	1981379.95	1131657.94	652.07	CP-XSW-321
349	1981952.26	1131670.21	651.02	CP-XSW-349

BENCHMARK:
SOURCE BENCHMARK 1: BM# 321
CROSS NOTCH ON SIDEWALK SQUARE IMMEDIATELY EAST OF FIRE HYDRANT LOCATED ON THE SOUTHEAST CORNER OF WILLOW ROAD AND SUNSET RIDGE ROAD.
ELEVATION: 652.068

SOURCE BENCHMARK 2: BM# 349
CROSS NOTCH IN CONCRETE SIDEWALK SQUARE LOCATED BETWEEN THE NORTHERLY MOST TWO DRIVEWAYS TO THE SUNSET RIDGE SCHOOL
ELEVATION: 651.025
DATUM: NAVD 88'

(VILLAGE OF NORTHFIELD BENCHMARKS)

COORDINATING/PERMITTING AGENCIES:

Village of Northfield Public Works Department	Captain Richard Knudson	847-441-3810
Cook County Highway Department	Mr. Bhanu Vyas	312-603-1670

UTILITY AGENCIES:

Comcast	Mr. Ted Wyman	630-600-6349
Commonwealth Edison Co.	Ms. Terri J. Bleck	847-816-5239
AT&T/Distribution	Mr. Hector Garcia	630-573-6465
Nicor Gas Co.	Ms. Constance Lane	630-388-3630

Call all Appropriate Departments to obtain inspections. All inspection requests shall be made 48 hours prior to actual inspection.

Construction hours are from 7:00am to 7:00pm
Monday thru Friday
9:00am to 5:00pm on Saturday
12:00pm to 5:00pm Sunday/Holiday.

NOTE:
CONSTRUCTION MEANS, METHODS AND JOBSITE SAFETY ARE THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.

FILE NAME = 3509.213-DT1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BVS	REVISED - 6/29/12	**SUNSET RIDGE ROAD & WAGNER ROAD SECTION 10-00050-00-SW VILLAGE OF NORTHFIELD, ILLINOIS**	**GENERAL NOTES & TYPICAL SECTIONS STATE STANDARDS & BENCHMARKS**
		DRAWN - BVS	REVISED - 7/16/12		
	PLOT SCALE = 1" = .0833'	CHECKED - LJD	REVISED -		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 4/30/2012	DATE - 4/30/12	REVISED -		

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-00050-00-SW	COOK	15	2
		CONTRACT #	63729	
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	CONSTRUCTION TYPE CODE 0021 TOTAL QUANTITY
	20101000	TEMPORARY FENCE	FOOT	375
	20101200	TREE ROOT PRUNING	EACH	5
	20200100	EARTH EXCAVATION	CU YD	140
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	800
	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	650
	25000110	SEEDING, CLASS 1A	ACRE	0.3
	25000324	SEEDING, CLASS 4B	ACRE	0.3
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	36
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	36
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	36
	25100630	EROSION CONTROL BLANKET	SQ YD	1,450
	28000400	PERIMETER EROSION BARRIER	FOOT	680
	28000500	INLET AND PIPE PROTECTION	EACH	6
	28100101	STONE RIPRAP, CLASS A1	SQ YD	75
	28200200	FILTER FABRIC	SQ YD	75
	31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	240
	40600990	TEMPORARY RAMP	SQ YD	10
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2,300
	42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	300
	42400800	DETECTABLE WARNINGS	SQ FT	32
	44000100	PAVEMENT REMOVAL	SQ YD	35
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	40
	44000600	SIDEWALK REMOVAL	SQ FT	200
	44201298	DOWEL BARS 1 1/4"	EACH	10
	50104400	CONCRETE HEADWALL REMOVAL	EACH	1
	50105220	PIPE CULVERT REMOVAL	FOOT	50
*	56501720	BICYCLE RAILING	FOOT	30
	54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1
	55100500	STORM SEWER REMOVAL 12"	FOOT	40
*	56103000	DUCTILE IRON WATER MAIN 6"	FOOT	30
*	56400500	FIRE HYDRANTS TO BE REMOVED	EACH	1
*	56400600	FIRE HYDRANTS	EACH	1
	60405100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	1
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	40
	63200310	GUARDRAIL REMOVAL	FOOT	35
	67100100	MOBILIZATION	L SUM	1
	55080050	STORM SEWER, CLASS B, TYPE 1 12"	FOOT	40
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	43
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	20
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	43
	X0327008	REMOVE AND RELOCATE SIGN (SPECIAL)	EACH	2
	X6029001	JUNCTION BOX, NUMBER 1	L SUM	1
	XX006119	TRAFFIC CONTROL AND PROTECTION (DETOUR)	L SUM	1
	20053905	TEMPORARY CONSTRUCTION FENCE	FOOT	600
	X4420494	CLASS D PATCHES, TYPE III, 6 INCH (SPECIAL)	SQ YD	30
	XX006114	PRECAST CONCRETE BOX CULVERTS 2' X 9.5' (SPECIAL)	FOOT	25

*INDICATES SPECIALTY ITEM

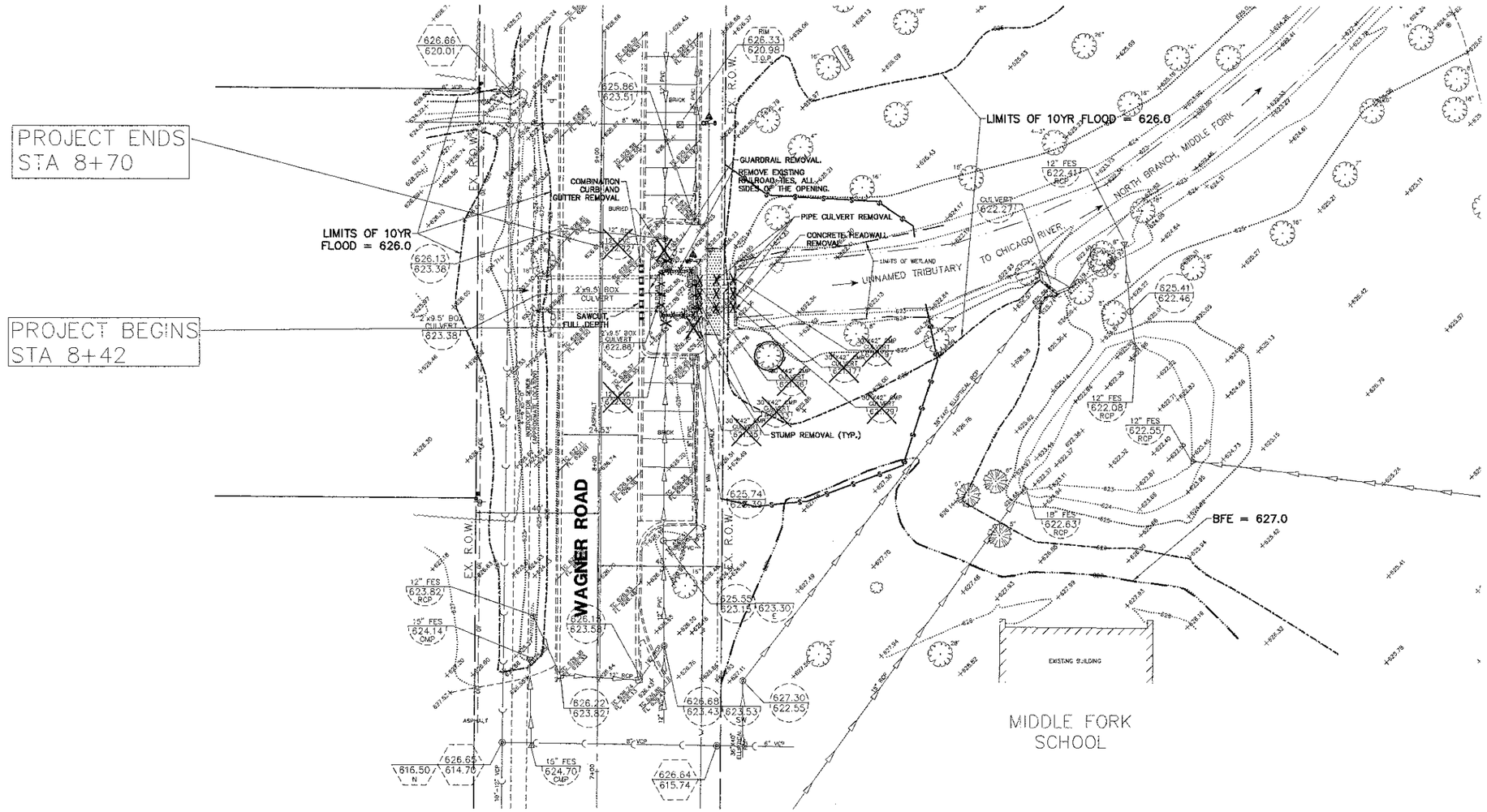
FILE NAME = 3509.213-DT1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BJW	REVISED -
		DRAWN - BJW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - LJD	REVISED -
	PLOT DATE = 4/30/2012	DATE - 7/16/12	REVISED -

SUNSET RIDGE ROAD & WAGNER ROAD
SECTION 10-00050-00-SW
VILLAGE OF NORTHFIELD, ILLINOIS

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-00050-00-SW	COOK	15	2A
		CONTRACT # 63729		
		ILLINOIS FED. AID PROJECT		



N

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

LEGEND

- STORM SEWER REMOVAL
- COMBINATION CURB & GUTTER REMOVAL
- PCC SIDEWALK REMOVAL
- PERIMETER EROSION BARRIER
- TEMPORARY FENCING
- TREE REMOVAL
- WATERS OF THE US
- 10 YEAR FLOOD LIMITS
- 100 YEAR FLOOR LIMITS

NOTES:

1. REMOVAL OF EXISTING TREE STUMP SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

2. REMOVAL OF EXISTING RAILROAD TIES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

FILE NAME = 3509.213-Wagner-PR1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BVS	REVISED - 6/29/12
		DRAWN - BVS	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - LJD	REVISED -
	PLOT DATE = 4/30/2012	DATE - 4/30/12	REVISED -

SUNSET RIDGE ROAD & WAGNER ROAD
SECTION 10-00050-00-SW
VILLAGE OF NORTHFIELD, ILLINOIS

EXISTING CONDITIONS/DEMOLITION PLAN

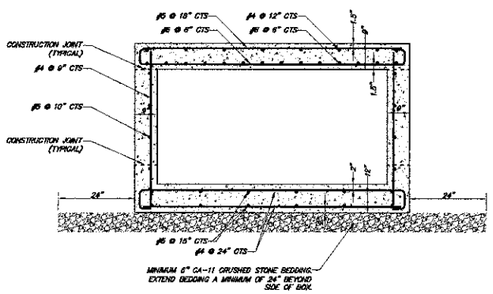
SCALE 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-0050-00-SW	COOK	15	3
		CONTRACT #	63729	
	ILLINOIS FED. AID PROJECT			

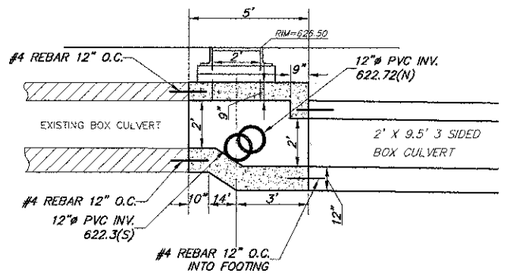
PROJECT ENDS
STA 8+70

PROJECT BEGINS
STA 8+42

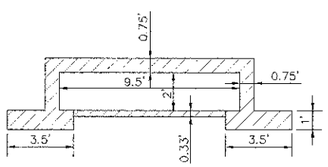
NOTE:
CONTRACTOR SHALL SAWCUT ALONG THE EXISTING EDGE OF PAVEMENT AND PROVIDE PROPER MEANS TO PREVENT DAMAGE TO EXISTING PAVEMENT. IF, AT THE DISCRETION OF THE ENGINEER, THE ADJACENT PAVEMENT GETS DAMAGED, THE CONTRACTOR SHALL PROVIDE AN ADDITIONAL SAWCUT AND REPAIR THE ROADWAY TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CURB AND GUTTER PAY ITEM.



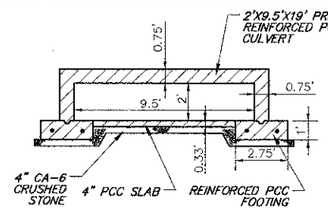
TYPICAL JUNCTION BOX SECTION



JUNCTION BOX DETAIL

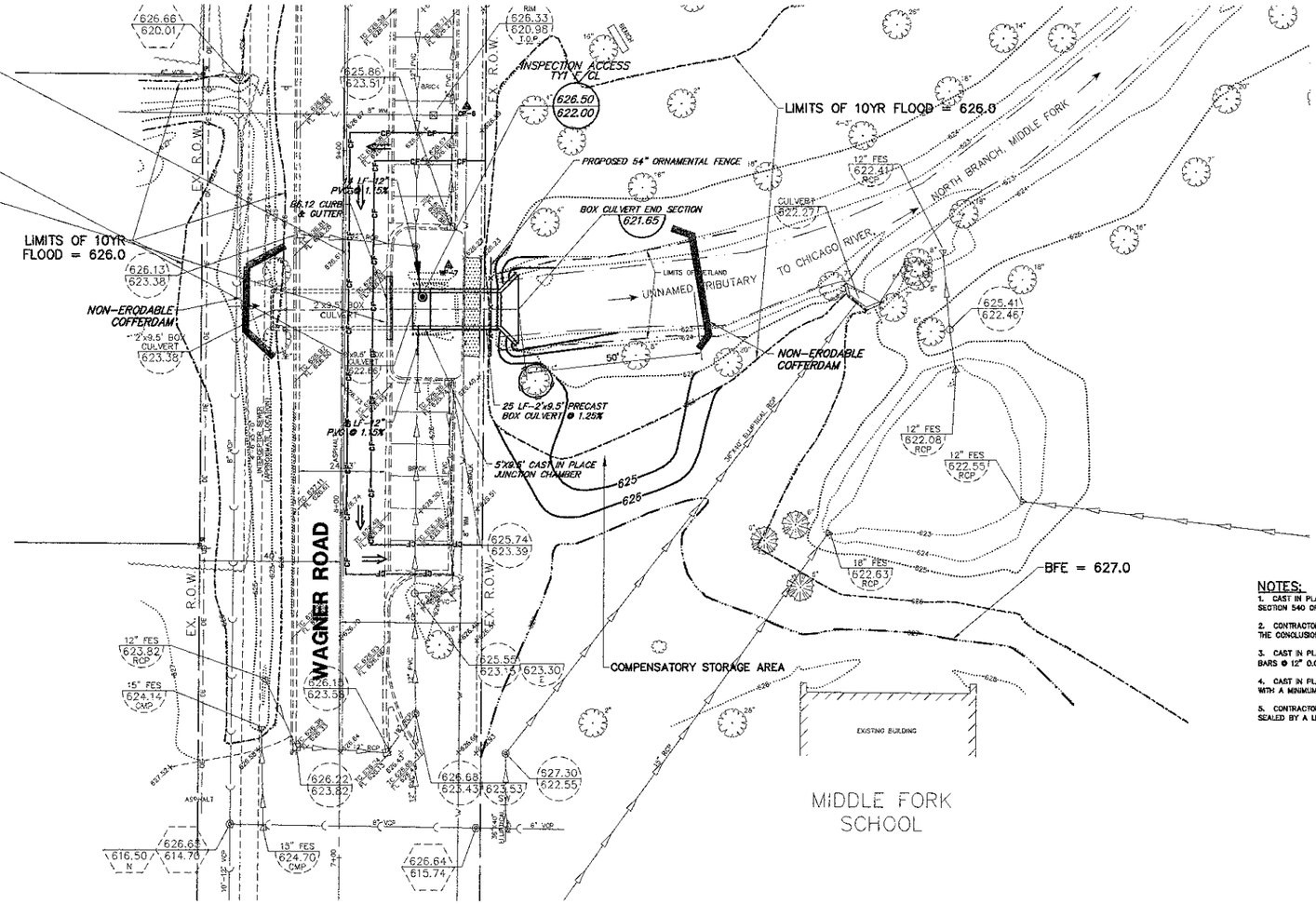


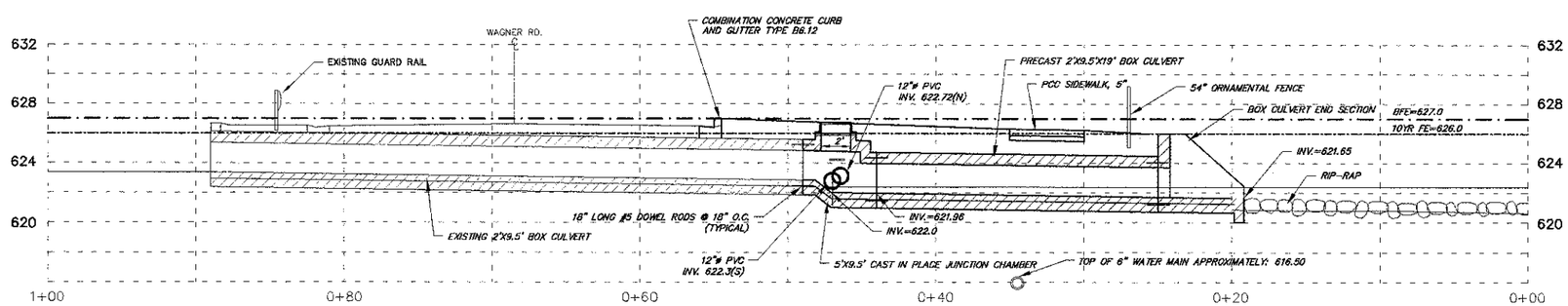
EXISTING CULVERT CROSS SECTION



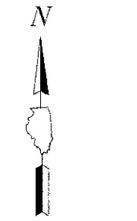
PROPOSED CULVERT CROSS SECTION

* ALL REINFORCEMENT BARS TO BE EPOXY COATED





CL OF CREEK
SCALE: 1"=5'H 1"=5'V



LEGEND

COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12

PCC SIDEWALK, 5" (SEE DETAIL)

NOTES:
1. CAST IN PLACE AND PRECAST BOX CULVERTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 540 OF THE STANDARD SPECIFICATIONS.
2. CONTRACTOR SHALL PROVIDE DETAILED AS-CONSTRUCTED DRAWINGS OF EACH JUNCTION AT THE CONCLUSION OF THE PROJECT.
3. CAST IN PLACE JUNCTION CHAMBERS SHALL BE DOWELED INTO EXISTING STRUCTURES WITH #4 BARS @ 12" O.C. BARS SHALL EXTEND A MINIMUM OF 4" INTO EXISTING CONCRETE.
4. CAST IN PLACE JUNCTION SECTIONS TO BE CONSTRUCTED USING IDOT CLASS SI CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 14 DAYS.
5. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF EACH JUNCTION SECTION SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER.

FILE NAME = 3509.213-Wagner-PR1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BVS	REVISED - 6/29/12
		DRAWN - BVS	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - LJD	REVISED -
	PLOT DATE = 4/30/2012	DATE - 4/30/12	REVISED -

SUNSET RIDGE ROAD & WAGNER ROAD
SECTION 10-00050-00-SW
VILLAGE OF NORTHFIELD, ILLINOIS

PLAN AND PROFILE - WAGNER ROAD CULVERT

SCALE 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

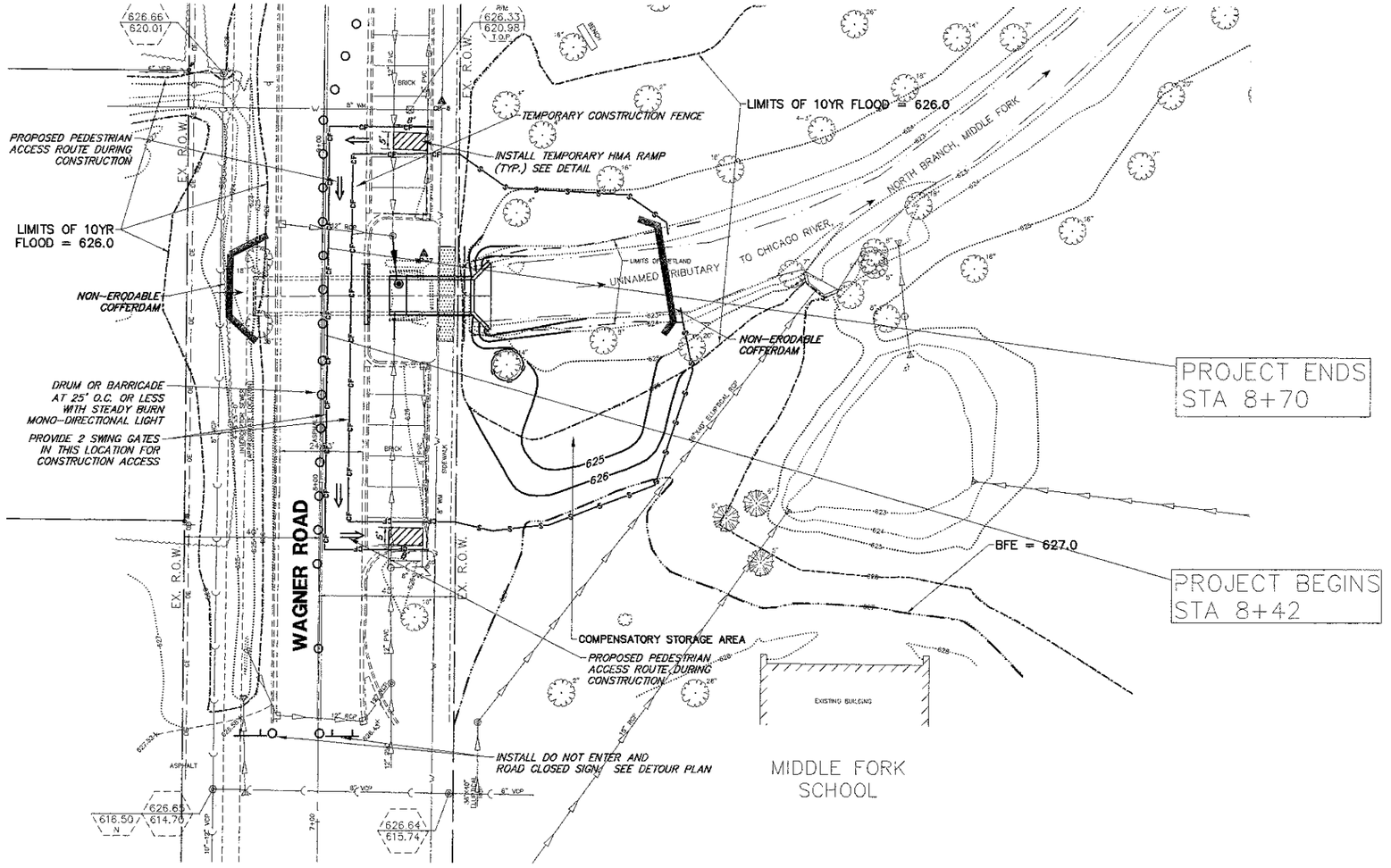
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-00050-00-SW	COOK	15	4
		CONTRACT #:	63729	
		ILLINOIS FED. AID PROJECT		

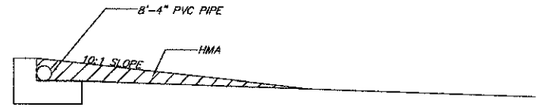
CONSTRUCTION SEQUENCING

1. ALL WORK SHALL BE PERFORMED IN THE DRY.
2. PRE-CONSTRUCTION MEETING WITH ENGINEER AND NCC SWCD IS REQUIRED.
3. CONTRACTOR SHALL INSTALL SILT FENCE AND REQUIRED COFFERDAM UPSTREAM AND DOWNSTREAM OF CULVERT IMPROVEMENTS. A CONTINGENCY PLAN OF INSTALLING SANDBAGS WRAPPED IN 30 MIL PLASTIC IS IN PLACE AND WILL BE INSTALLED IF THE PROPOSED COFFERDAMS WERE TO FAIL PER NCC SWCD.
4. CONTRACTOR SHALL PROVIDE NECESSARY BY-PASS PUMPING OF THE CREEK SO NOT TO INUNDATE THE WORK AREA. THE BY-PASS PLAN MUST BE APPROVED BY NCC SWCD PRIOR TO INITIAL OPERATION.
5. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING PIPE CULVERTS, HEADWALL, AND RAIL ROAD TIES.
6. CONTRACTOR SHALL INSTALL NEW 2'X9.5' BOX CULVERT AS SHOWN IN THE PLANS.
7. CONTRACTOR SHALL RESTORE AND STABILIZE THE EAST AND WEST BANK PRIOR TO REMOVAL OF THE COFFERDAMS.
8. SEE SHEETS 2 & 7 FOR ADDITIONAL SOIL EROSION CONTROL AND SEDIMENT CONTROL NOTES.

PROPOSED CONDITION PLAN NOTES

1. The contractor is responsible for means and methods of dewatering devices. The contractor shall devise a method of dewatering excavations satisfactory to the Engineer.
2. The contractor shall use a non-erodible cofferdam to prevent water from entering the excavation. The locations of the cofferdam shown are approximate.
3. The contractor shall be prepared to remove the cofferdam from preventing stream flow in case a rain event occurs during construction. The contractor may, at his cost, use bypass pumping capable of handling the upstream flow.
4. Subgrade soils shall be compacted to 95% standard proctor density unless otherwise noted. Base course stone and trench backfill shall be compacted to 95% standard proctor density unless otherwise noted.
5. All proposed green areas are to have all debris removed and replaced with six inches of sandy topsoil, seed and erosion control blanket. Topsoil shall be furnished and placed by the contractor. All topsoil shall be pulverized, free of clods, stone, sticks, and debris.
6. Roadways shall be kept clean of all debris and soils at all times. It is the contractor's responsibility to sweep and wash the road on a daily basis or more frequently as maybe necessary.
7. The contractor shall repair any pavement that has been damaged during construction. At the completion of the project, the contractor shall thoroughly clean the work area and any roadways leading to the work area with a street sweeper.
8. Disturbance to wetland shall be minimized. Restore all disturbed areas per Soil Erosion and Sediment Control Plan.
11. Contractor shall install bicycle railing according to plans and details. Steel posts painted brown shall be used on top of precast box. Steel posts shall be attached to top slab of precast box culvert according to case 4 of IDOT Highway Standard 630101-08.

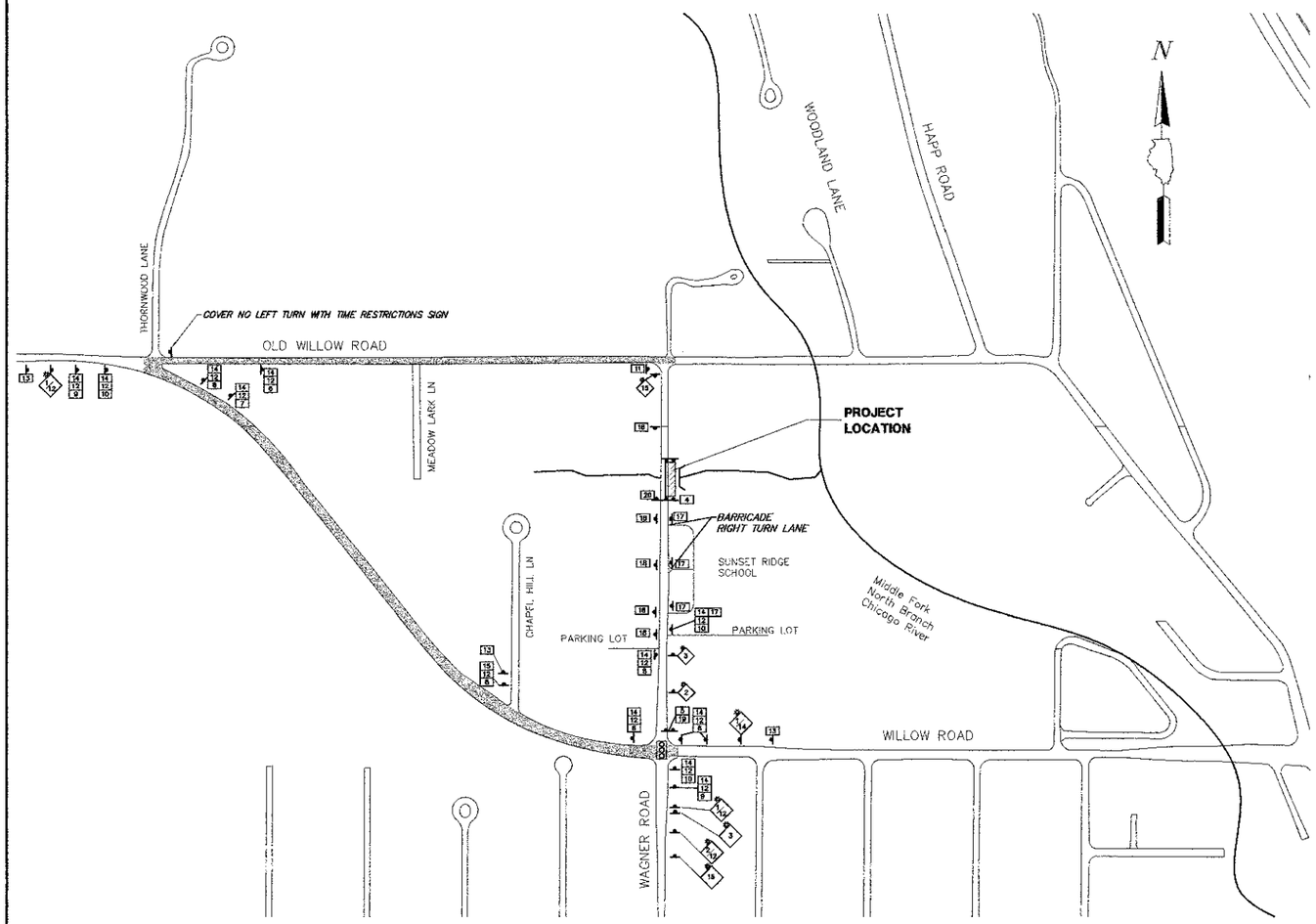




TEMPORARY HMA RAMP DETAIL

FILE NAME = 3509.213-Wagner-PR1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BVS	REVISED - 6/29/12	SUNSET RIDGE ROAD & WAGNER ROAD SECTION 10-00050-00-SW VILLAGE OF NORTHFIELD, ILLINOIS	PROPOSED CULVERT EXTENSION PLAN
		DRAWN - BVS	REVISED - 7/25/12		
	PLOT SCALE = 1" = .0833'	CHECKED - LJD	REVISED -		SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.
	PLOT DATE = 4/30/2012	DATE - 4/30/12	REVISED -		

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-0050-00-SW	COOK	15	5
		CONTRACT #	63729	
	ILLINOIS FED. AID PROJECT			



TRAFFIC CONTROL NOTES

1. TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 900; APPLICABLE GUIDELINES IN THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; AND THE APPLICABLE HIGHWAY STANDARDS FOR TRAFFIC CONTROL, UNLESS HEREIN REVISED.

2. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES IN CONFLICT WITH TEMPORARY SIGNS WILL BE RELOCATED OR COVERED BY THE CONTRACTOR. AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER RELOCATED SIGNS SHALL BE REINSTALLED AND COVERS REMOVED AS REQUIRED. ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE AND MAINTAINED BY THE CONTRACTOR.

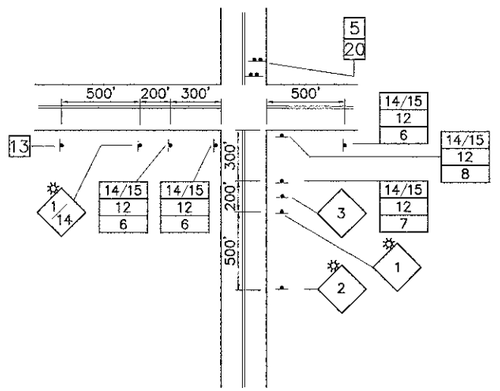
3. TYPE I OR TYPE II BARRICADES WITH TWO WAY FLASHING LIGHTS SHALL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, TRANSVERSE PAVEMENT JOINTS, MATERIALS, ON EQUIPMENT WITHIN THE RIGHT OF WAY (NUMBER AND SPACING DEPENDS ON THE CONDITIONS); AND AT LOCATIONS DESIGNATED BY THE ENGINEER OR LOCAL LAW ENFORCEMENT AGENCIES.

4. THE CONTRACTOR SHALL PROVIDE ACCESS WITHIN THE RIGHT OF WAY FOR EMERGENCY VEHICLES ENTERING CONSTRUCTION AREAS AT ALL TIMES.

5. PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES AND SEPARATED FROM CONSTRUCTION AREAS BY TEMPORARY CONSTRUCTION FENCE AS SHOWN ONT HE PLANS OR APPROVED BY THE ENGINEER.

6. THE AVERAGE DAILY TRAFFIC THROUGH THE AREA POSTED FOR LOCAL ACCESS ONLY IS EXPECTED TO BE LESS THAN 100 VEHICLES. FLAGMEN ARE THEREFORE NOT REQUIRED UNLESS DIRECTED BY THE ENGINEER.

TYPICAL INTERSECTION AT POINT OF DETOUR



TYPICAL DETOUR SIGN ASSEMBLY

SIGN NO. 14
SIGN NO. 12
SIGN NO. 6 TO 10

DIRECTION
ROAD NAME
DETOUR

LEGEND

- SIGNALIZED INTERSECTION
- W20-1 48 IN. x 48 IN. CONSTRUCTION WARNING SIGN, WITH AMBER FLASHING LIGHT. NUMBER DENOTES TYPE
- M4-9 SERIES DETOUR SIGN WITH ROAD NAME AND DIRECTION PLATES. NUMBER DENOTES TYPE
- OTHER DETOUR SIGNS NUMBER DENOTES TYPE
- 2 TYPE III BARRICADES WITH AMBER FLASHING LIGHTS SEE SHEET 6
- DETOUR ROUTE
- CONSTRUCTION ZONE

NORTHBOUND
WAGNER ROAD
CLOSED
BEGINNING
MONTH __, 20__

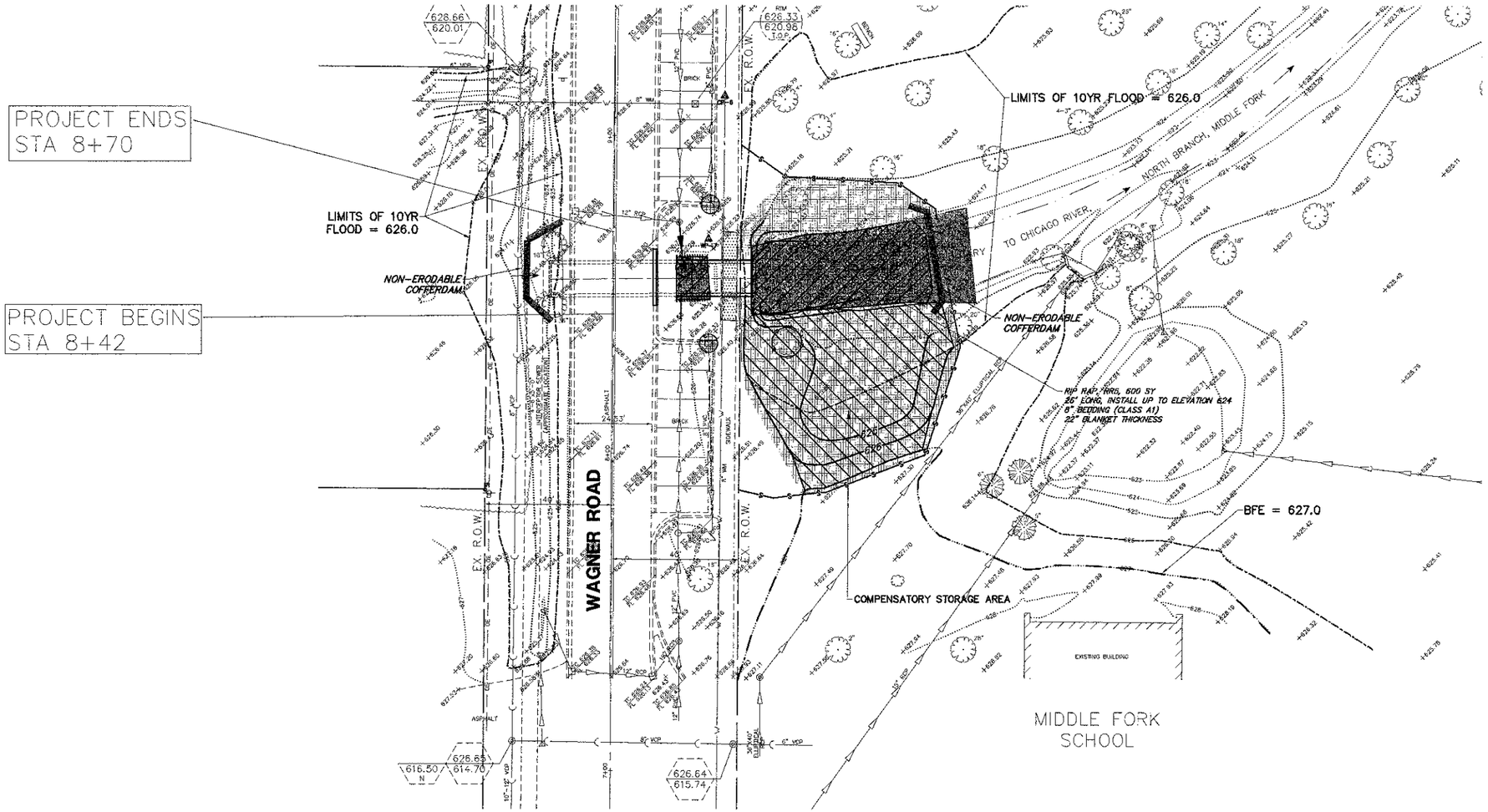
PROVIDE ADVANCE NOTICE SIGN MINIMUM 72 HOURS PRIOR TO CLOSURE

SCHEDULE OF QUANTITIES

SIGN NO.	SIGN TYPE		QUANTITY
1	DETOUR AHEAD	W20-2 (0) 48	4
2	ROAD CLOSED AHEAD	W20-3 (0) 48	1
3	ROAD CLOSED 500 FT	W20-3 (0) 48	1
4	ROAD CLOSED	R11-1 6030	1
5	ROAD CLOSED 700 FT AHEAD LOCAL TRAFFIC ONLY	R11-3 6030	2
6	DETOUR	M4-9 (0) 3021	6
7	DETOUR	M4-9R (0) 3021	2
8	DETOUR	M4-9R (0) 3021	2
9	DETOUR	M4-9L (0) 3021	2
10	DETOUR	M4-9L (0) 3021	2
11	END DETOUR	M4-8a (0) 2418	1
12	WAGNER RD	SPECIAL (0)9 VARIABLE	20
13	NORTHBOUND WAGNER ROAD CLOSED TO THRU TRAFFIC USE WILLOW RD	SPECIAL (0) 6030 5" BLACK LETTERS ON ORANGE BACKGROUND	4
14	NORTH	M3-3 (0) 2412	15
15	ROAD CONSTRUCTION AHEAD	W20-2 (0) 48	1
16	SPEED LIMIT 20	R2-1 (0) 3648	1
17		R3-1 (0) 2424	1
18	ONE WAY	R6-1 (0) 3612	2
19	DETOUR	R4-10 (0) 4818	2
20		R5-1 (0) 3030	1

FILE NAME = 3509.213-Wagner-PR1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BVS	REVISED - 6/29/12	SUNSET RIDGE ROAD & WAGNER ROAD SECTION 10-00050-00-SW VILLAGE OF NORTHFIELD, ILLINOIS	WAGNER ROAD DETOUR PLAN
		DRAWN - BVS	REVISED - 7/25/12		
	PLOT SCALE = 1" = .0833'	CHECKED - LJD	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 4/30/2012	DATE - 4/30/12	REVISED -		

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-0050-00-SW	COOK	15	6
		CONTRACT #: 63729		
	ILLINOIS FED. AID PROJECT			



N

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

EROSION CONTROL LEGEND

- PERIMETER EROSION CONTROL
- INLET FILTER BASKET
- EROSION CONTROL BLANKET 6" TOPSOIL, SALT TOLERANT SEED IDOT CLASS 4B, EROSION CONTROL BLANKET NAG S150 (3:1 SLOPES)
- STONE RIP-RAP
- WATERS OF THE U.S.
- WATERS OF THE U.S. IMPACTED BY IMPROVEMENTS - TOTAL AREA: 1470 SF.

NOTES:

1. ALL WORK SHALL BE COMPLETED IN DRY CONDITIONS.
2. ALL DISTURBED AREAS WILL BE STABILIZED WITH I.D.O.T. CLASS 4B SEED MIX AND NAG-S150 EROSION CONTROL BLANKET.

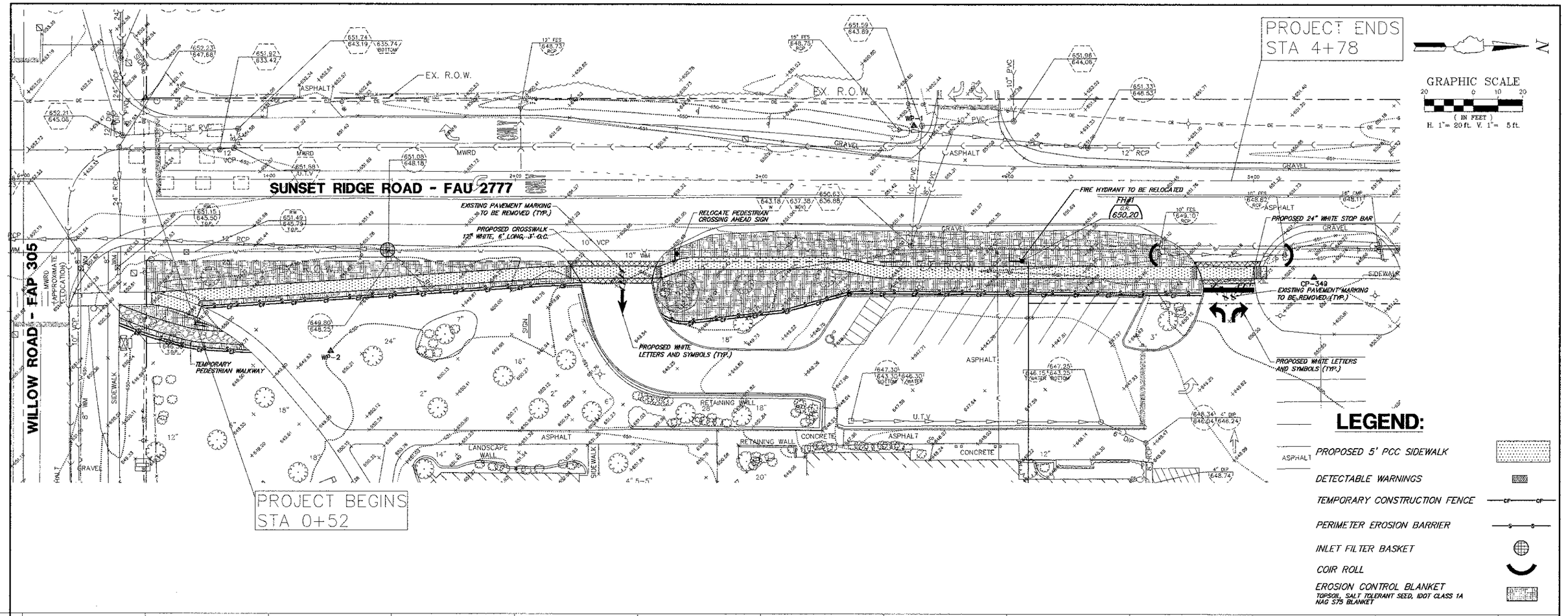
FILE NAME = 3509.213-Wagner-PR1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BVS	REVISED - 6/29/12
		DRAWN - BVS	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - LJD	REVISED -
	PLOT DATE = 4/30/2012	DATE - 4/30/12	REVISED -

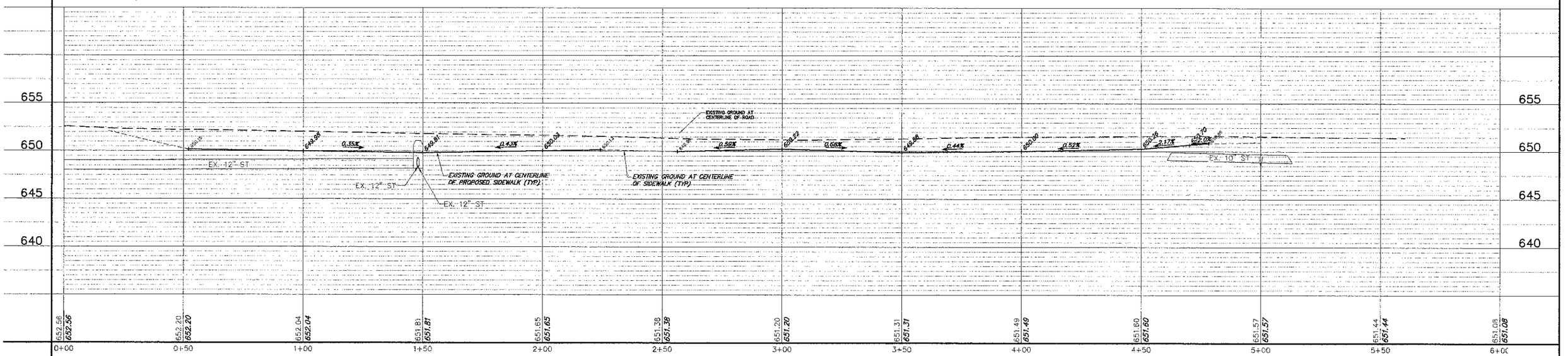
SUNSET RIDGE ROAD & WAGNER ROAD
SECTION 10-00050-00-SW
VILLAGE OF NORTHFIELD, ILLINOIS

EROSION AND SEDIMENT CONTROL PLAN

SCALE 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-0050-00-SW	COOK	15	7
		CONTRACT #:	63729	
		ILLINOIS FED. AID PROJECT		



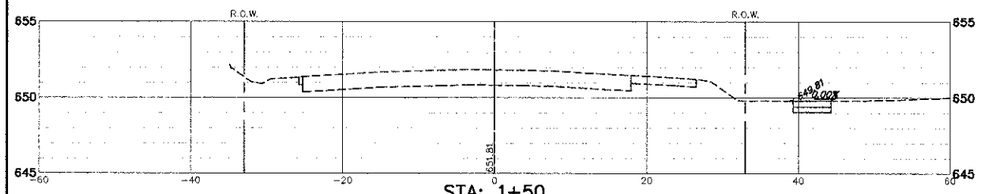


FILE NAME = 3509.213-SunsetRidge-PR1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BVS	REVISED - 6/29/12	**SUNSET RIDGE ROAD & WAGNER ROAD SECTION 10-00050-00-SW VILLAGE OF NORTHFIELD, ILLINOIS**
		DRAWN - BVS	REVISED -	
	PLOT SCALE = 1" = .0833'	CHECKED - LJD	REVISED -	
	PLOT DATE = 4/30/2012	DATE - 4/30/12	REVISED -	

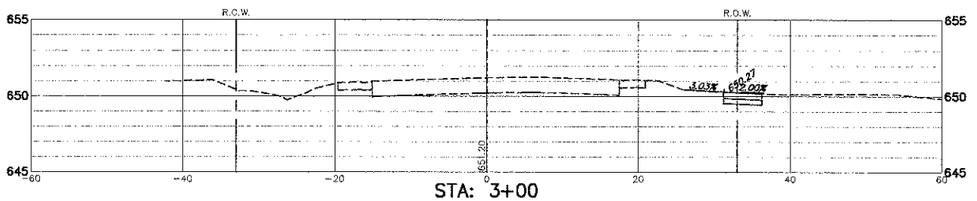
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

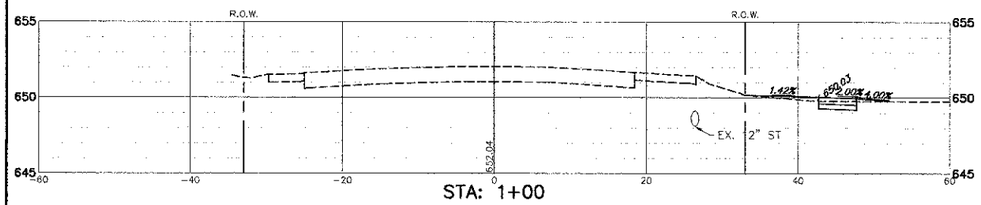
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-00050-00-SW	COOK	15	8
		CONTRACT #: 63729		
	ILLINOIS FED. AID PROJECT			



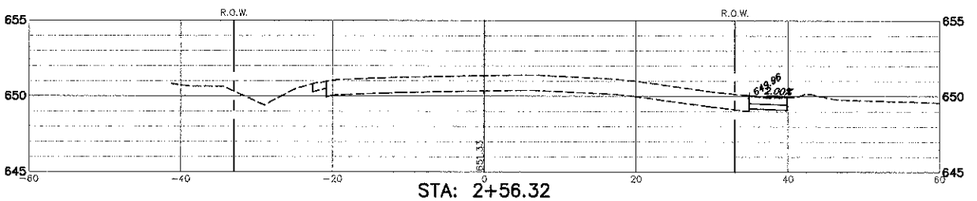
STA: 1+50



STA: 3+00



STA: 1+00



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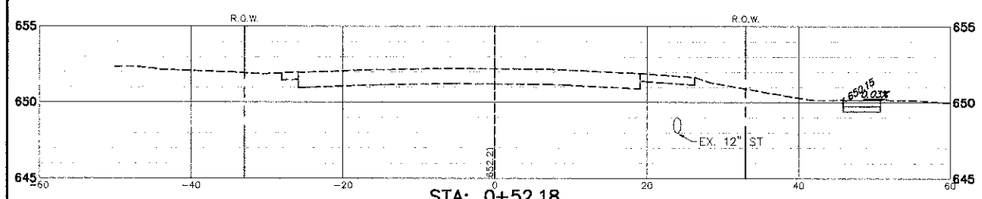

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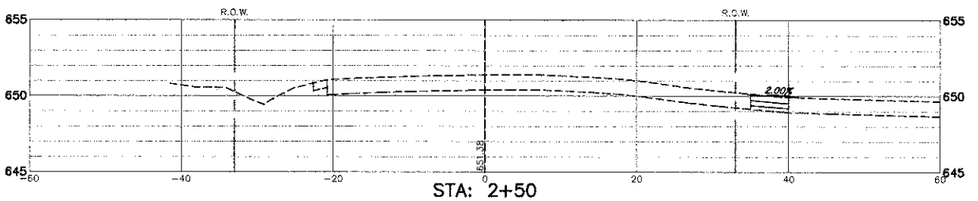
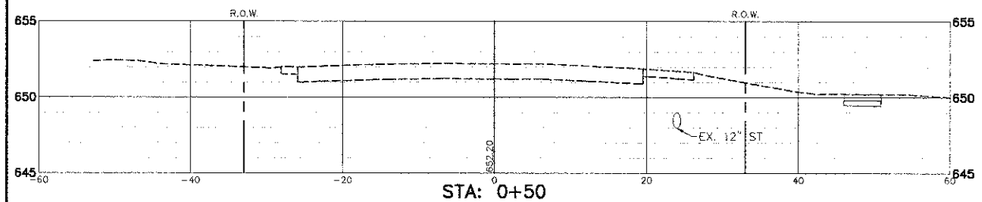
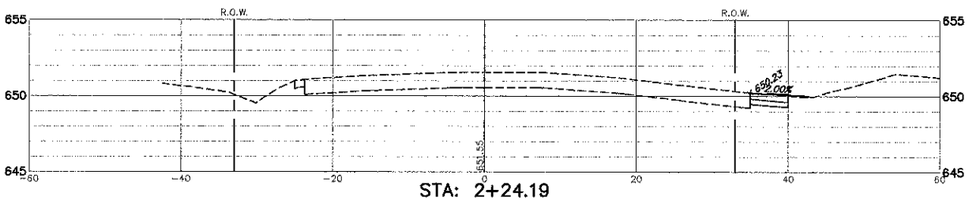


STA: 2+50



STA: 0+50



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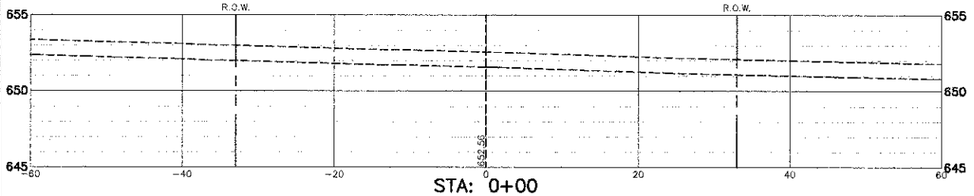

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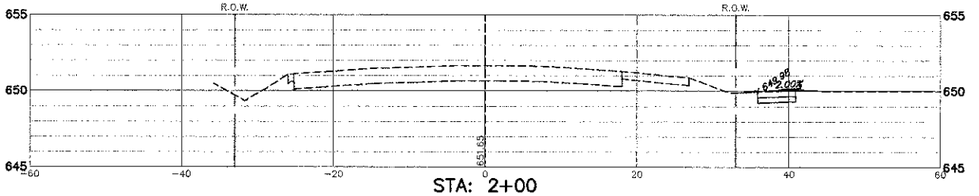

STA: 2+00

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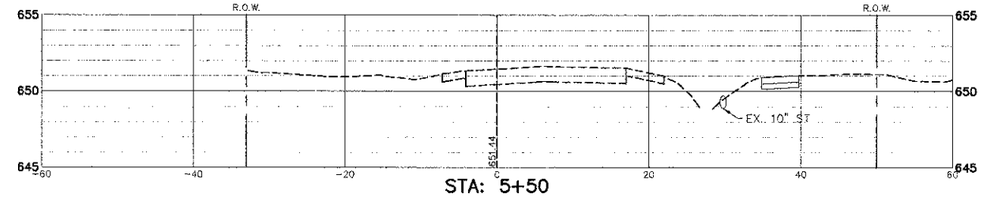
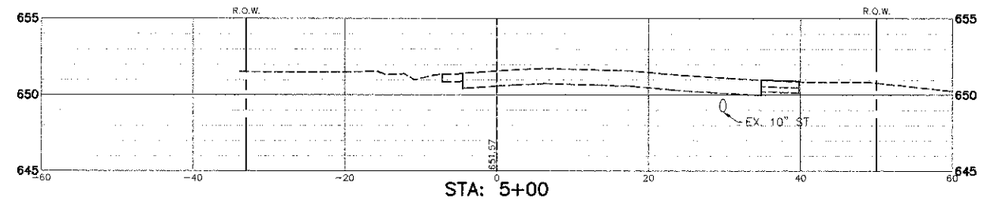
FILE NAME = 3509.213-SunsetRidge-XS1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BVS	REVISED - 6/29/12	**SUNSET RIDGE ROAD & WAGNER ROAD SECTION 10-00050-00-SW VILLAGE OF NORTHFIELD, ILLINOIS**	**SUNSET RIDGE ROAD CROSS-SECTIONS**
		DRAWN - BVS	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - LJD	REVISED -		
	PLOT DATE = 5/1/2012	DATE - 4/30/12	REVISED -		SCALE: 1"=10'H,1"=5'V SHEET NO. OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-0050-00-SW	COOK	15	9
		CONTRACT #	63729	
	ILLINOIS FED. AID PROJECT			



STA: 5+50



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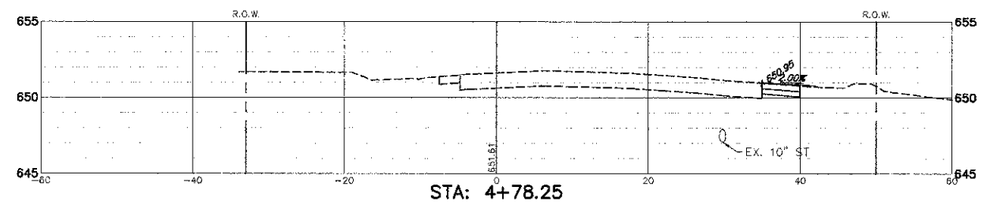

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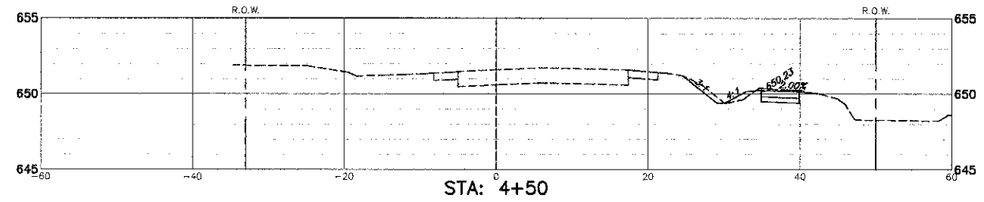

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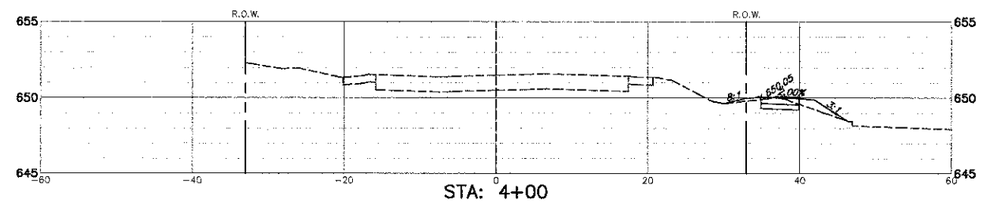
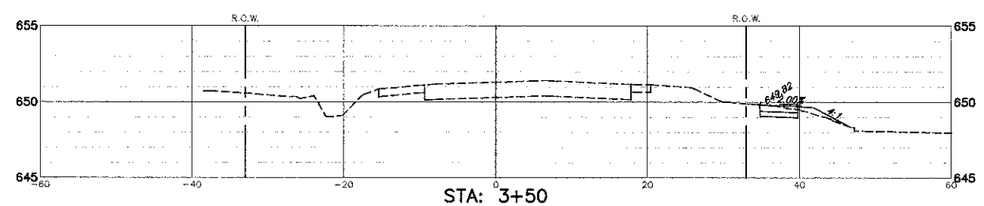


STA: 4+00



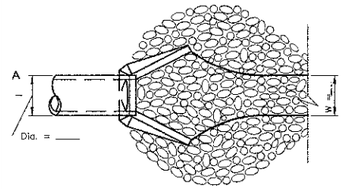
STA: 3+50

FILE NAME = 3509.213-SunsetRidge-XS1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BVS	REVISED - 6/29/12	**SUNSET RIDGE ROAD & WAGNER ROAD SECTION 10-00050-00-SW VILLAGE OF NORTHFIELD, ILLINOIS**	**SUNSET RIDGE ROAD CROSS-SECTIONS**				
		DRAWN - BVS	REVISED -						
	PLOT SCALE = 1" = .0833'	CHECKED - LJD	REVISED -		SCALE: 1"=10'H,1"=5'V	SHEET NO. OF SHEETS	STA.	TO STA.	
	PLOT DATE = 5/1/2012	DATE - 4/30/12	REVISED -						

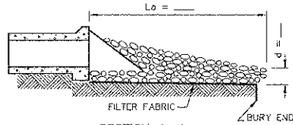
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-0050-00-SW	COOK	15	10
		CONTRACT #:	63729	
		ILLINOIS FED. AID PROJECT		

PIPE OUTLET TO CHANNEL

PIPE OUTLET TO WELL-DEFINED CHANNEL



PLAN

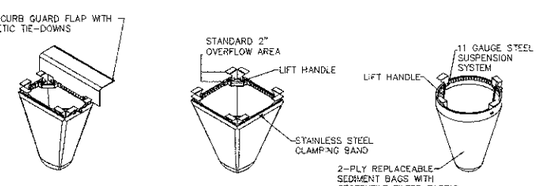


SECTION A--A

NOTES:
ALL GEOTEXTILE SHALL BE NON-WOVEN TABLE 1, CLASS 2 MATERIAL.

THE RIPRAP SHALL BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 61 LOOSE ROCK RIPRAP. THE ROCK MAY BE EQUIPMENT PLACED.

REFERENCE			STANDARD DWG. NO.
Project		NRCS	IL-611
Designed	Date	Natural Resources Conservation Service	SHEET 1 OF 1
Checked	Date		DATE 8-18-94
Approved	Date		



TYPICAL CURB BOX INLET FILTER

TYPICAL FLAT/RECTANGULAR/ROLLED CURB INLET FILTER

TYPICAL ROUND INLET FILTER

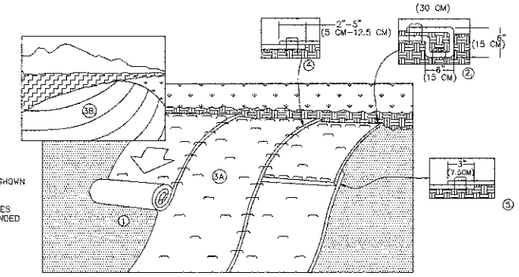
ACCEPTABLE MANUFACTURER'S AS LISTED BELOW 1. INLET & PIPE PROTECTION, INC. Napervsite, IL 60564 (847 722-0690

2. MARATHON MATERIALS. INC. Plainfield, IL 60544 800-983-9493

MAINTENANCE
1. CLEAN OUT AFTER EVERY RAIN EVENT

Material Property	Test Method	Value (min. unless noted)	
> Inner Filter Bag Sposs (2ft²/min. psi)		Non-Woven	Woven Mono
Grab Tensile	ASTM D 4632	100 lbs	200 lbs
Puncture Strength	ASTM D 4833	65 lbs	90 lbs
Trapezoidal Tear	ASTM D 4535	45 lbs	75 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs	80%
App Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)	40 sieve (.425 mm)
Permittivity	ASTM D 4491	2.0/sec	2.1/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft	140gpm/sqft
> Polyester Outer Reinforcement Bag Specifications			
Weight	ASTM D 3776	4.55 oz/sqyd +/-15%	
Thickness	ASTM D 1777	.040 +/- .005	
> Frame Construction			
A36 Structural Steel: 11 Gauge, Zinc Plated	ASTM A 576	Tensile Strength > 58,000 psi Yield Strength > 36,000 psi	

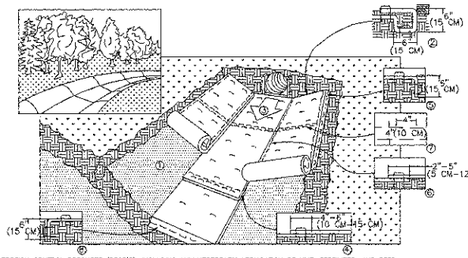
INLET FILTER BASKET DETAIL



STAPLE PLACEMENTS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SEE STAPLE PATTERN GUIDES FOR ACTUAL RECOMMENDED PLACEMENTS.

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5 CM – 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.
NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

EROSION CONTROL BLANKET SLOPE INSTALLATION

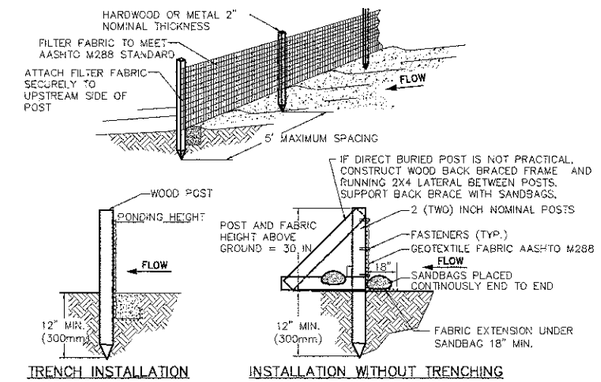


1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE RECP'S.
3. ROLL CENTER RECP'S IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINS THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE RECP'S END OVER END (SHINGLE STYLE) WITH A 4"-6" (10 CM-15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE RECP'S.
5. FULL LENGTH EDGE OF RECP'S AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM)DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT RECP'S MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5 CM-12.5 CM) (DEPENDING ON RECP'S TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M-12 M) INTERVALSUSE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE RECP'S MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
NOTE:
* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (12 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.

CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.

EROSION CONTROL BLANKET CHANNEL INSTALLATION



TRENCH INSTALLATION

INSTALLATION WITHOUT TRENCHING

1. SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF THE POST.

2. ATTACH AASHTO GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3(THREE) FASTENERS PER POST AND EXTEND TO THE BOTTOM OF THE TRENCH. ACCEPTABLE FASTENERS INCLUDE STAPLES, ZIP-TIES, OR WIRE TIES.

3. BACKFILL AND COMPACT THE EXCAVATED SPOIL MATERIALS

PROPERTY	TEST PROCEDURE	
Grab Elongation		
Machine Direction	ASTM D-4533	123 lbs
X-Machine Direction	ASTM D-4833	101 lbs
Permittivity	ASTM D-4491	0.05 sec^{-1}
A.S.O.	ASTM D-4751	30 u.s. Sieve
UV Stability	ASTM D-4355	70%

NOTES:
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.

3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

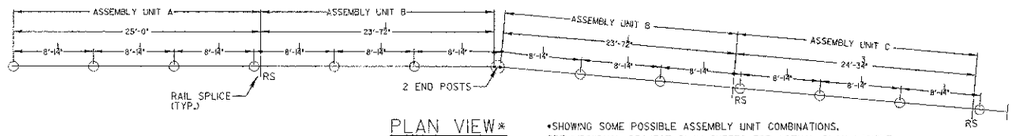
4. FABRIC AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ASSHTO STANDARD SPECIFICATION M-288-00.

5. SLICING METHOD IS PREFERRED.

SILT FENCE INSTALLATION DETAIL

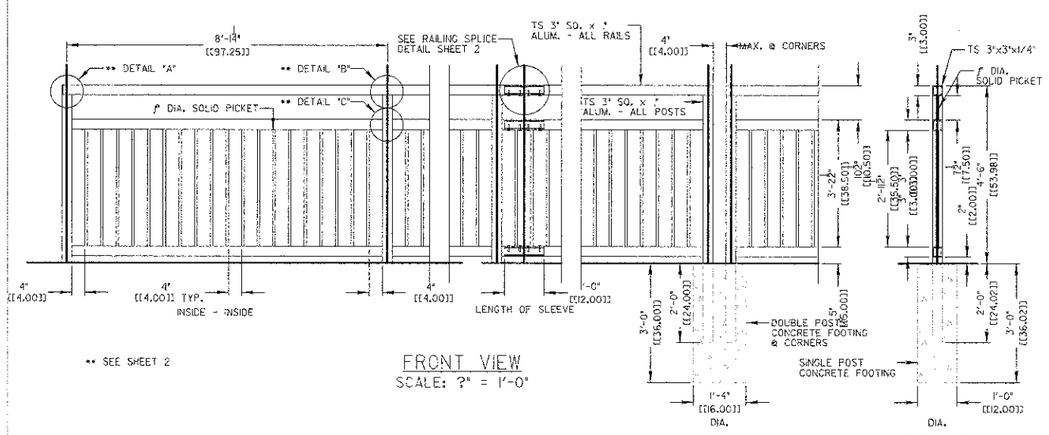
FILE NAME = 3509.213-DT1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BVS	REVISED - 6/29/12	SUNSET RIDGE ROAD & WAGNER ROAD SECTION 10-00050-00-SW VILLAGE OF NORTHFIELD, ILLINOIS	DETAIL SHEET		
		DRAWN - BVS	REVISED -				
	PLOT SCALE = 1" = .0833'	CHECKED - LJD	REVISED -				
	PLOT DATE = 4/30/2012	DATE - 4/30/12	REVISED -		SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-0050-00-SW	COOK	15	11
		CONTRACT #:	63729	
		ILLINOIS FED. AID PROJECT		



PLAN VIEW*
SCALE: 2" = 1'-0"

*SHOWING SOME POSSIBLE ASSEMBLY UNIT COMBINATIONS. SEE INDIVIDUAL PROJECT PLAN SHEETS FOR ACTUAL PLAN LAYOUT.



FRONT VIEW
SCALE: ?" = 1'-0"

SIDE VIEW
SCALE: NTS

DESIGN NOTES:

1) SINCE THIS FENCE IS A WELDED UNIT, VERTICAL ALIGNMENT MUST BE EITHER LEVEL OR A SINGLE CONSISTENT GRADE THROUHOUT.
2) DOUBLE POSTS @ CORNERS IS INTENTED TO CHANGE HORIZONTAL ALIGNMENT ONLY. DO NOT USE THESE TO CHANGE VERTICAL ALIGNMENT.

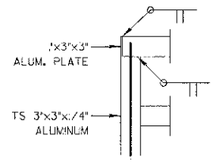
REVISIONS	DATE

LakeCounty Division of Transportation

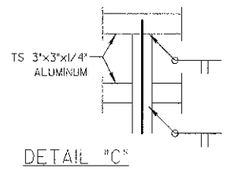
APPROVED BY: M. C. ZEMAITIS
DATE: APRIL 1, 2007

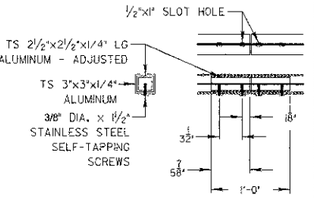
BICYCLE RAILING
Sheet 1 of 2

LC0622



DETAIL "A"





RAILING SPLICE DETAIL

DESIGN NOTES:

1. RAILING SHALL BE ACCORDING TO SECTION 509 OF THE IDOT STANDARD SPECIFICATIONS, EXCEPT AS NOTED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR BICYCLE RAILING.
2. ALL TUBING WILL BE ALUMINUM ALLOY 6063-T52.
3. ALL DIMENSIONS ARE IN FEET AND INCHES EXCEPT AS NOTED.
4. ALL POSTS, RAILING SHALL BE PAINTED IN ACCORDANCE WITH SECTION 506 OF THE IDOT STANDARD SPECIFICATIONS.
5. ALL RAIL WILL BE SANDBLASTED PER SSPC-SP6 FOLLOWED BY SHOP APPLIED PRIMER AND TOP COAT AS FOLLOWS:
   3.00 MILS DFT TNEMEC 66-1# BUILD EPOXOLINE EPOXY INTERMIN COAT OR APPROVED EQUAL, THEN,
   2.00 MILS DFT TNEMEC 73-COLOR ALIPHATIC ACRYLIC POLYURETHANE TOPCOAT - BLACK OR APPROVED EQUAL.
6. ALL BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL.
7. SHOP DRAWINGS BASED ON INDIVIDUAL PROJECT PLAN VIEW LOCATIONS MUST BE SUBMITTED TO THE RESIDENT ENGINEER FOR APPROVAL.

NO SCALE

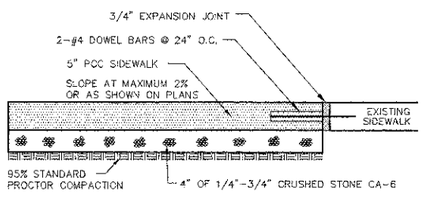
REVISIONS	DATE

LakeCounty Division of Transportation

APPROVED BY: M. C. ZEMAITIS
DATE: APRIL 1, 2007

BICYCLE RAILING
Sheet 2 of 2

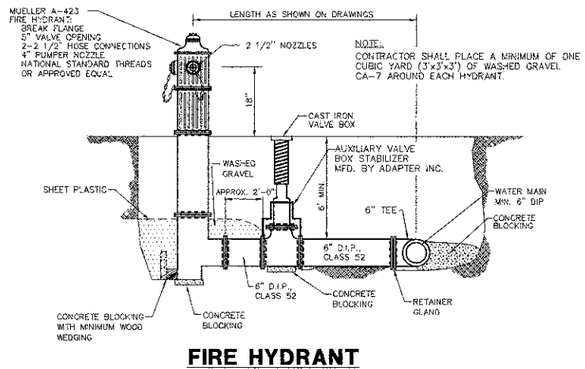
LC0622



NOTE:

1. SET 3/4" EXPANSION JOINTS AT POINTS ABUTTING CURB OR PAVEMENT AND AT 45' MAX. INTERVALS.
2. CONTROL JOINTS SHALL BE 1/8" TO 1/4" WIDE AND 1/4 OF THE SIDEWALK THICKNESS DEEP. THE EDGE OF THE CONTROL JOINTS SHALL BE GIVEN A 1/4" RADIUS.
3. SIDEWALK WIDTH AS SHOWN ON PLANS.

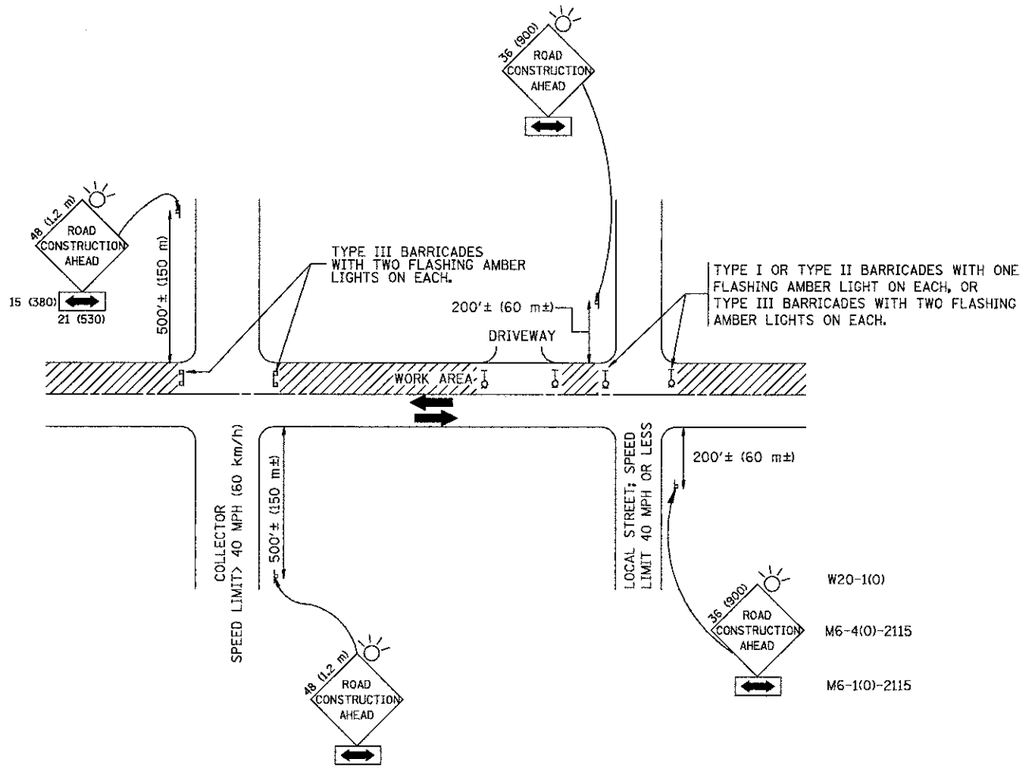
PCC SIDEWALK DETAIL



FIRE HYDRANT

FILE NAME = 3509.213-011.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BVS	REVISED - 6/29/12	SUNSET RIDGE ROAD & WAGNER ROAD SECTION 10-00050-00-SW VILLAGE OF NORTHFIELD, ILLINOIS	DETAIL SHEET
		DRAWN - BVS	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - LJD	REVISED -		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 5/3/2012	DATE - 4/30/12	REVISED -		

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-0050-00-SW	COOK	15	12
		CONTRACT #:	63729	
		ILLINOIS FED. AID PROJECT		



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.

GHA #3509.214

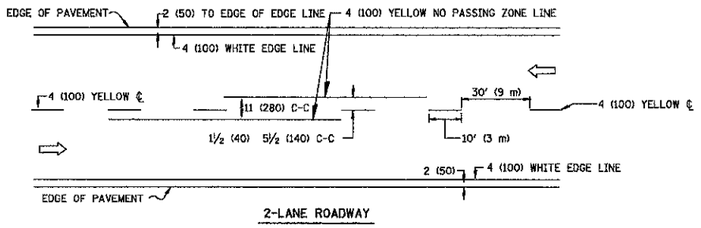
FILE NAME = 3509.213-D71.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 1" = .0833'	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 5/3/2012	DATE - 08-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

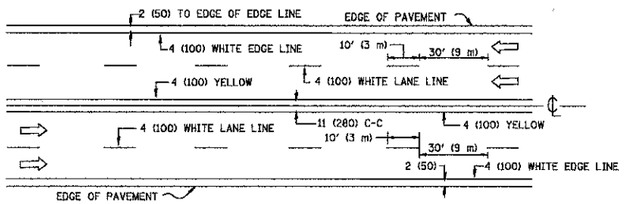
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

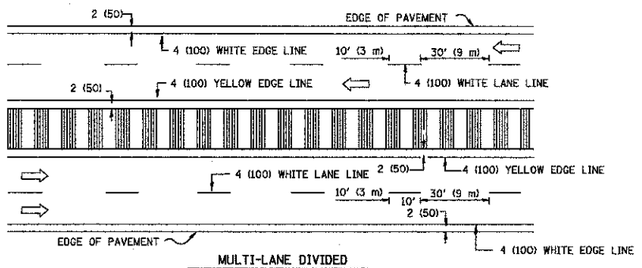
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-0050-00-SW	COOK	15	13
	TC-10	CONTRACT #:	63729	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



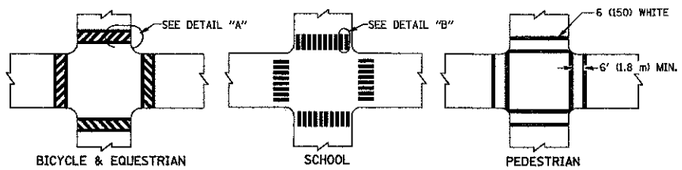
MULTI-LANE UNDIVIDED



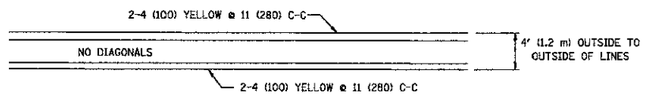
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

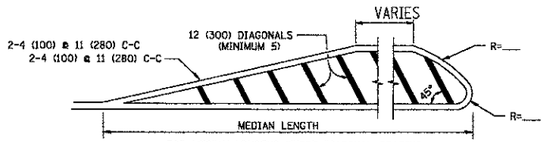
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



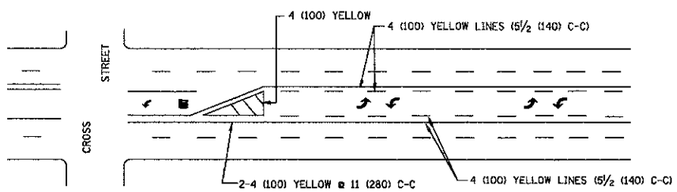
4' (1.2 m) WIDE MEDIANS ONLY



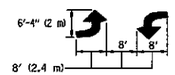
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

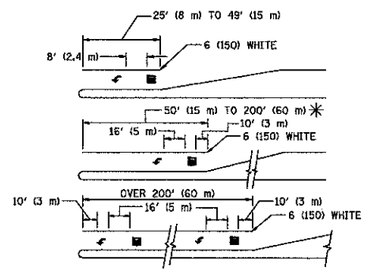


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

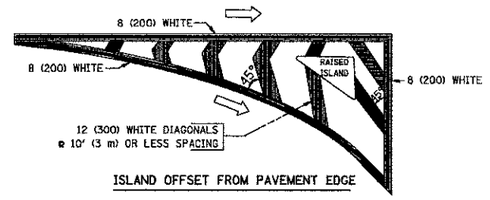


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

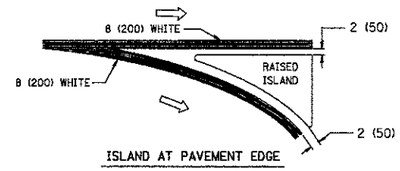
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

TYPICAL PAVEMENT MARKINGS

GHA #3509.214

FILE NAME = 3509.213-DT1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
		DRAWN -	REVISED - C. JUCIUS 09-09-09		
	PLOT SCALE = 1" = .0833'	CHECKED -	REVISED -		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 5/3/2012	DATE - 03-19-90	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-0050-00-SW	COOK	15	14
	TC-13	CONTRACT #: 63729		
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT				

ROUTE MARKERS

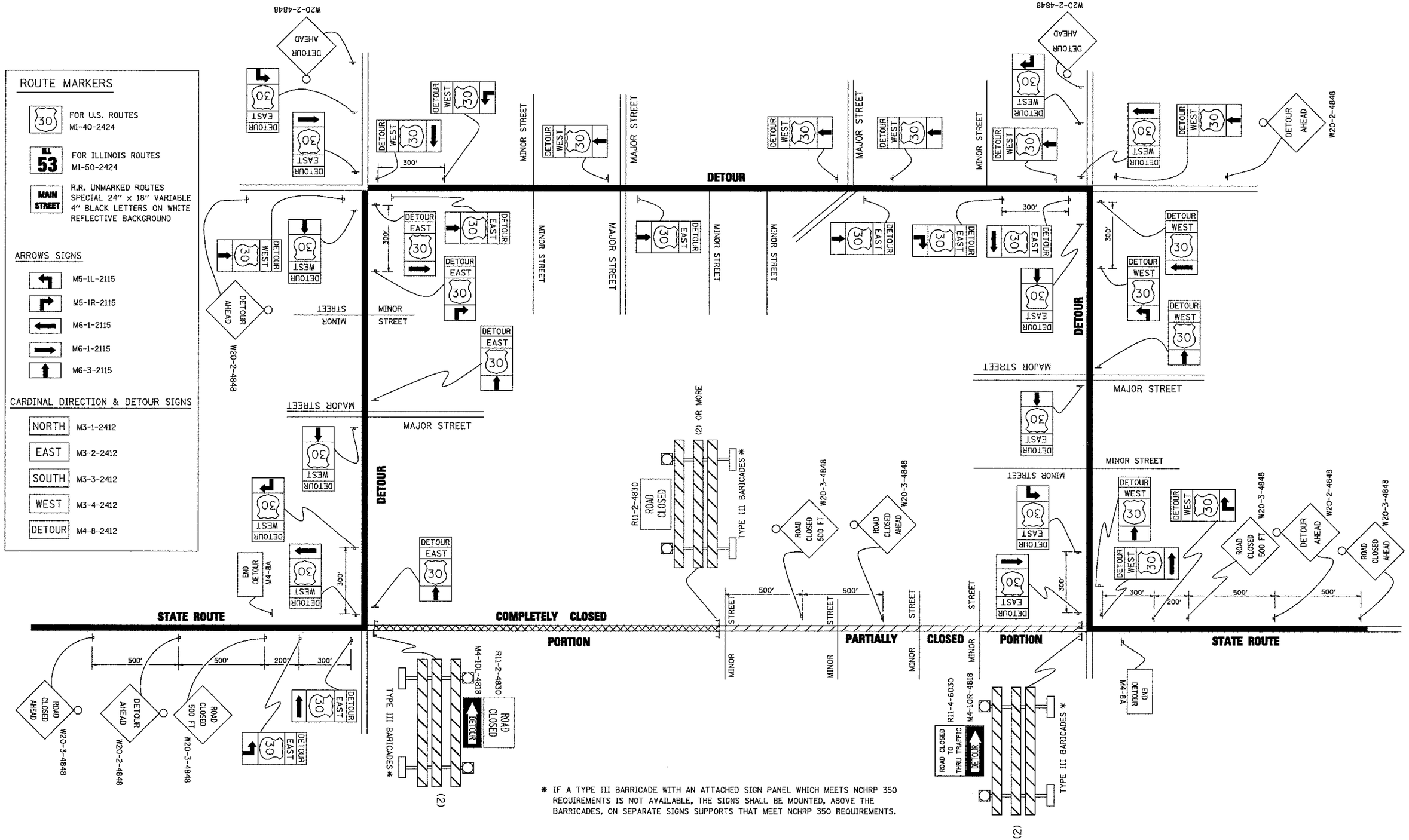
- 30 — FOR U.S. ROUTES M1-40-2424
- ILL 53 — FOR ILLINOIS ROUTES M1-50-2424
- MAIN STREET — R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

- M5-1L-2115
- M5-1R-2115
- M6-1-2115
- M6-1-2115
- M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

- NORTH M3-1-2412
- EAST M3-2-2412
- SOUTH M3-3-2412
- WEST M3-4-2412
- DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME = 3509.213-DT1.dwg	USER NAME = BRIAN WESOLOWSKI	DESIGNED -	REVISED - 10-18-02	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DETOUR SIGNING FOR CLOSING STATE HIGHWAYS**
		DRAWN -	REVISED - R. BORO 9-14-09		
	PLOT SCALE = 1" = .0833'	CHECKED -	REVISED -		SCALE: NONE / SHEET NO. OF SHEETS / STA. TO STA.
	PLOT DATE = 6/22/2012	DATE -	REVISED -		

GHA #3509.214

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2777	10-0050-00-SW	COOK	15	15
	TC-21	CONTRACT #: 63729		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT