

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
119	15-C2000-04-BT	McHENRY	17	1
ILLINOIS			CONTRACT NO. 61D89	

17+1 = 18

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROJECT LOCATED IN CITY OF CRYSTAL LAKE AND UNINCORPORATED NUNDA TOWNSHIP

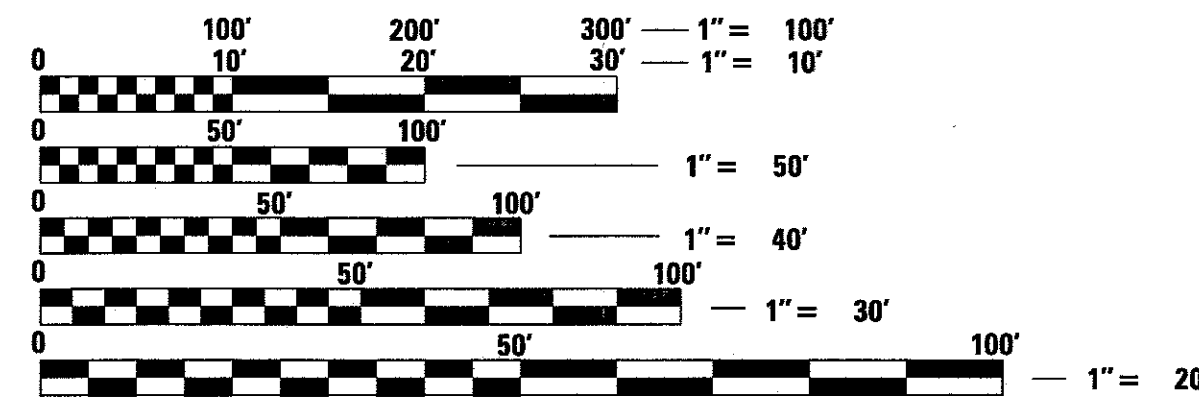
# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 119 (OAK STREET)  
AT COMED RIGHT-OF-WAY  
MULTI-USE PATH  
SECTION NO: 15-C2000-04-BT  
PROJECT NO: CMM-4003 (757)

McHENRY COUNTY CONSERVATION DISTRICT  
McHENRY COUNTY  
C-91-303-16

THESE PLANS WHICH HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION, MATTHEW D. WASHKOWIAK MEET THE MINIMUM REQUIREMENTS OF THE McHENRY COUNTY STORM WATER MANAGEMENT ORDINANCE, LAST AMENDED APRIL 5, 2016.

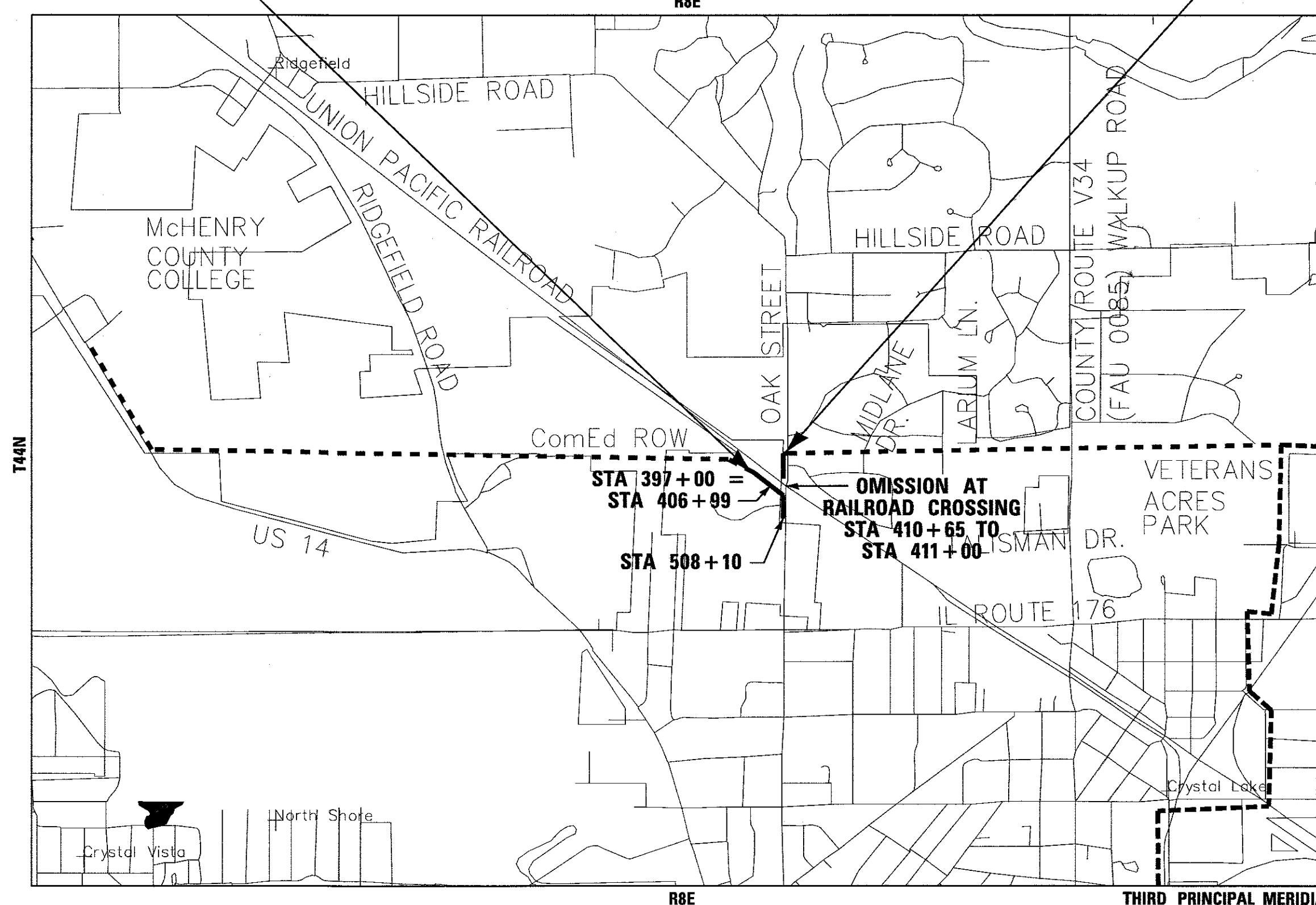
**MATTHEW D. WASHKOWIAK**  
62-052835  
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS  
PROJECT MANAGER  
"LICENSE EXPIRES 11-30-17"



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.

BEGIN IMPROVEMENTS  
STA 390+08

END IMPROVEMENTS  
STA 415+79.97



LOCATION MAP (NOT TO SCALE)

NUNDA TOWNSHIP  
GROSS LENGTH OF IMPROVEMENT = 1,756 LF OR 0.333 MILES  
NET LENGTH OF IMPROVEMENT = 1,721 LF OR 0.325 MILES

J.U.L.I.E. DESIGN STAGE REQUEST  
DIG. No. X3560529/X3560532



CONTACT JULIE AT 811 OR 800-892-0123 WITH THE FOLLOWING:  
COUNTY = McHENRY  
CITY-TOWNSHIP = NUNDA  
SEC. & 1/4 SEC. NO. = 31 NE 1/4  
48 HOURS (2 working days) BEFORE YOU DIG



**MATTHEW D. WASHKOWIAK**  
62-052835  
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS  
PROJECT MANAGER  
"LICENSE EXPIRES 11-30-17"



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED: *Anthony J. Ruggie*  
McHENRY COUNTY CONSERVATION DISTRICT, REPRESENTATIVE

PASSED: JUNE 12, 2017  
*Christopher Holt*  
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: JUNE 12, 2017  
*Anthony J. Ruggie*  
REGIONAL ENGINEER

CONTRACT NO. 61D89

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS  
B&W PROJECT NO.: 150114 DATE: 5-29-17

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

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
- THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE MCHENRY COUNTY CONSERVATION DISTRICT DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY.
- THE CONTRACTOR SHALL NOTIFY THE MCHENRY COUNTY CONSERVATION DISTRICT (AMY PETERS, ASLA - PLANNING DEPARTMENT MANAGER - 815-678--4532) AND THE CITY OF CRYSTAL LAKE ABIGAL WILGREEN, PE - CITY ENGINEER - 815-356-3605) AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN UTILITY LOCATIONS AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.
- PART OF THIS PROJECT WILL BE CONSTRUCTED IN THE COMMONWEALTH EDISON COMPANY RIGHT-OF-WAY. COMMONWEALTH EDISON DOES NOT ALLOW STOCKPILING OF MATERIAL OR STORAGE OF EQUIPMENT IN THEIR RIGHT OF WAY. SURPLUS MATERIALS RESULTING FROM CONSTRUCTION SHALL BE REMOVED AT THE END OF EACH DAY TO AN APPROVED SITE. IN THE JUDGEMENT OF THE MCHENRY COUNTY CONSERVATION DISTRICT (MCCD), SHOULD IT BE NECESSARY TO REMOVE SUCH MATERIALS, THE MCCD WILL HAVE THE MATERIAL REMOVED AND THE CONTRACTOR WILL BE BILLED (CHARGED) ACCORDINGLY.
- THE CONTRACTOR IS RESPONSIBLE TO OBTAIN WATER AS REQUIRED FOR CONSTRUCTION. THE USE OF CITY OF CRYSTAL LAKE FIRE HYDRANTS IS PROHIBITED.
- THE CONTRACTOR SHALL MAINTAIN A LEGIBLE RECORD ON A SET OF CONSTRUCTION PLANS SO THAT ALL DRAINAGE SYSTEMS ETC. CAN BE LOCATED IN THE FIELD IN A MANNER ACCEPTABLE TO THE MCHENRY COUNTY CONSERVATION DISTRICT AND THE CITY OF CRYSTAL LAKE. FINAL CONTRACT PAYMENT SHALL NOT COME DUE UNTIL THIS INFORMATION IS RECEIVED BY THE ENGINEER.
- STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENT SHALL BE APPROVED BY THE ENGINEER AND THE MCHENRY COUNTY CONSERVATION DISTRICT.
- CURB AND GUTTER SHALL BE DEPRESSED AT DRIVEWAYS.
- THE CONTRACTOR SHALL NOTIFY CITY OF CRYSTAL LAKE MATERIAL INSPECTOR AT LEAST 48 HOURS PRIOR TO ANY CONCRETE OR HOT-MIX ASPHALT MATERIAL DELIVERIES.
- ANY DAMAGE TO PAVEMENT, SIDEWALK, CURB OR ANY OTHER PORTION OF THE ROADWAY NOT SPECIFICALLY TO BE REMOVED AND REPLACED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL CHARGE.
- PORTLAND CEMENT CONCRETE SHALL BE THICKENED TO 8-INCHES AT LOCATIONS WHERE THE SIDEWALK CROSSES DRIVEWAYS. TRANSVERSE EXPANSION JOINTS 3/4" SHALL BE PLACED EVERY 50 FEET OR AS DETERMINED BY THE ENGINEER. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED EVERY 5- FEET.
- A UNION PACIFIC RAILROAD RIGHT OF ENTRY PERMIT WILL BE REQUIRED FOR THIS PROJECT. THE CONTRACTOR MUST OBTAIN AND CONFORM TO THE REQUIREMENTS SET FORTH BY THE RIGHT OF ENTRY PERMIT. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE UNION PACIFIC RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE UNION PACIFIC RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05
- THE UNION PACIFIC RAILROAD WILL BE COORDINATING AND CONSTRUCTING THE OAK STREET ROADWAY RAIL CROSSING AT THE SAME TIME AS THIS PROJECT. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO COOPERATE, COORDINATE, AND STAGE IMPROVEMENTS AS NECESSARY TO COMPLETE THIS PROJECT IN CONJUNCTION WITH THE UNION PACIFIC RAILROAD.
- THE CONTRACTOR SHALL CONTACT THE CITY OF CRYSTAL LAKE PUBLIC WORKS AT (815) 356-3605 PRIOR TO WORK COMMENCING ON THE FIRE HYDRANTS OR WATAER VALVE VAULTS. NO WORK SHALL BE COMPLETED ON ANY MUNICIPAL UTILITIES UNTIL THE CONTRACTOR HAS DISCUSSED THEIR PROCESS WITH A CITY INSPECTOR. THE CITY WILL NEED TO INSPECT THE UTILITY WORK.
- THE CONTRACTOR SHALL ADJUST THE MUNICIPAL UTILITIES TO MEET THE CITY OF CRYSTAL LAKE PUBLIC WORKS STANDARDS ON SHEET 14A.

**HIGHWAY STANDARDS**

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 606001-06 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-06 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 780001-05 TYPICAL PAVEMENT MARKINGS


**COMMITMENTS**

- SEPTIC LINES MAY BE LOCATED WITHIN THE COMMONWEALTH EDISON COMPANY RIGHT-OF-WAY. IF ENCOUNTERED, ALL SEPTIC LINES SHALL BE REPAIRED, MAINTAINED AND PROTECTED.
- THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES (IDNR) REQUIRES THE CONTRACTOR TO INSTALL EXCLUSIONARY FENCING IN THE VICINITY OF THE PROJECT AS SHOWN ON THE PLANS TO PREVENT BLANDING'S TURTLE FROM ENTERING CONSTRUCTION AREAS. DAILY INSPECTION SHOULD OCCUR THE FIRST TWO WEEKS AND THEN BE MAINTAINED WEEKLY THROUGHOUT THE CONSTRUCTION PERIOD TO ENSURE THE EXCLUSIONARY FENCING HAS BEEN PROPERLY INSTALLED (DUG INTO THE GROUND) AND TO CHECK IF ANY TURTLES ARE PRESENT ON EITHER SIDE OF FENCE.
- IDNR REQUIRES CONSTRUCTION CREWS AND ALL ON-SITE PERSONNEL TO BE INFORMED ABOUT BLANDING'S TURTLES BEFORE WORK BEGINS. THE ENGINEER WILL COORDINATE THIS EFFORT WITH THE CONTRACTOR ALONG WITH A SITE MANAGEMENT STRATEGY AT A TRAINING SESSION AND AT THE PRECONSTRUCTION SITE MEETING. IF A TURTLE IS ENCOUNTERED ON SITE, THE CONTRACTOR SHALL INFORM CREWS TO IMMEDIATELY STOP CONSTRUCTION IN THE SURROUNDING AREA AND CONTACT MCHENRY COUNTY CONSERVATION DISTRICT SARA DENHAM 815-728-8307; KEEPING IN MIND ITS A CRIMINAL ACT TO HANDLE A LISTED SPECIES. PERSONNEL ON SITE SHOULD WATCH THE TURTLE UNTIL THE PROPER AUTHORITY ARRIVES TO ALLEVIATE THE SITUATION, KEEPING A RESPECTABLE DISTANCE.
- TRENCHES AND EXCAVATIONS SHOULD BE COVERED AT THE END OF EACH WORK DAY. BEFORE STARTING EACH WORK DAY, TRENCHES AND EXCAVATIONS (CONSTRUCTION AREA) SHOULD BE ROUTINELY INSPECTED TO ENSURE NO TURTLES HAVE BECOME TRAPPED WITHIN THEM OR WITHIN THE CONSTRUCTION AREA.

**INDEX OF SHEETS**

SHEET NO.	TITLE
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, COMMITMENTS AND GENERAL NOTES
3	STANDARD SOIL EROSION AND SEDIMENT CONTROL AND DRAIN TILE NOTES
4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS AND HMA MIXTURE REQUIREMENTS
6	SCHEDULE OF QUANTITIES
7	OVERALL PLAN AND BENCHMARKS
8 - 11	PLAN AND PROFILE
12	EROSION AND SEDIMENT CONTROL DETAILS AND NATIVE PLANT SEED MIX
13	DISTRICT 1 DETAIL - (TC-22) ARTERIAL ROAD INFORMATION SIGN
14	DISTRICT 1 DETAIL - (BD-36) FIRE HYDRANT TO BE MOVED
14A	CITY OF CRYSTAL LAKE DETAILS
15 - 17	CROSS SECTIONS

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	DESIGNED - APK	REVISED -	<b>McHENRY COUNTY CONSERVATION DISTRICT</b> <b>RIDGEFIELD TRACE EXTENSION</b> <b>BICYCLE PATH</b>	<b>INDEX OF SHEETS, HIGHWAY STANDARDS,</b> <b>COMMITMENTS AND GENERAL NOTES</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - CJC	REVISED -			119	15-C2000-04-BT	McHENRY	17	2
	CHECKED - MDW	REVISED -			CONTRACT NO. 61D89				
	DATE - 5-29-17	FILE - 150114-GEN-NOTE.sht			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
				SCALE: NONE	STA.	TO STA.			

**Standard Soil Erosion and Sediment Control Notes**

1. Control measures shall meet the minimum standards and specifications of the *Illinois Urban Manual* ([www.aiswcd.org/IUM](http://www.aiswcd.org/IUM)) unless stated otherwise.
2. Soil disturbance shall be conducted in such a manner as to minimize erosion. Areas of the development site that are not to be disturbed shall be protected from construction traffic or other disturbance until final stabilization is achieved.
3. Soil stabilization measures shall consider the time of year, development site conditions and the use of temporary or permanent measures.
4. Stabilization by seeding shall include topsoil placement and fertilization, as necessary.
5. Native seed mixtures shall include rapid-growing annual grasses or small grains to provide initial, temporary soil stabilization.
6. Offsite property shall be protected from erosion and sedimentation. Velocity dissipation devices shall be placed at concentrated discharge locations and along the length of any outfall channel, as necessary to prevent erosion.
7. Sediment control measures shall be installed prior to the disturbance of tributary areas.
8. Stabilization of disturbed areas shall be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the development site, or temporarily ceased on any portion of the development site and will not resume for a period exceeding 14 calendar days. Stabilization of disturbed areas shall be initiated within 1 working day of permanent or temporary cessation of earth disturbing activities and shall be completed as soon as possible, but not later than 14 calendar days from the initiation of stabilization work in an area. Exceptions to these time frames are specified below:
  - a. Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable; and
  - b. In areas where construction activity has temporarily ceased and will resume after 14 days, a temporary stabilization method may be used.
9. Disturbance of steep slopes shall be minimized. Areas or embankments having slopes steeper than 3:1 shall be stabilized with staked in place sod, erosion control blanket in combination with seeding, or an equivalent control measure.
10. Perimeter control measures shall be provided downslope and perpendicular to the flow of runoff from disturbed areas, where the tributary area is greater than 5,000 square feet, and where runoff will flow in a sheet flow manner. Perimeter erosion control shall also be provided at the base of soil stockpiles.
11. The stormwater management system shall be protected from erosion and sedimentation downslope from disturbed areas. Inlet protection that reduces sediment loading, while allowing runoff to enter the inlet shall be required for all storm sewers. Check dams, or an equivalent control measure, shall be required for all channels. Filter fabric inlet protection and straw bale ditch checks are not acceptable control measures.

12. If dewatering services are used, discharges shall be routed through an effective sediment control measure (e.g., sediment trap or an equivalent control measure). The Enforcement Officer shall be notified prior to the commencement of dewatering activities.
13. All temporary soil erosion and sediment control measures shall be removed within 30 days after final stabilization of the development site is achieved or after the temporary measures are no longer necessary. Trapped sediment shall be removed and disturbed areas shall be permanently stabilized.
14. Stockpiled soil and materials shall be removed from flood hazard areas at the end of each work day. Soil and materials stockpiled in IWMC or buffer areas shall be placed on timber mats, or an equivalent control measure.
15. Effective control measures shall be utilized to minimize the discharge of pollutants from the development site. At a minimum, control measures shall be implemented in order to:
  - a. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash water; and
  - b. Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, vehicle fluids, sanitary waste, and other materials present on the development site to precipitation and to stormwater.
16. Adequate receptacles shall be provided for the depositing of all construction material debris generated during the development process. The applicant shall not cause or permit the dumping, depositing, dropping, throwing, discarding or leaving of construction material debris upon or into any development site, channel, or IWMC. The development site shall be maintained free of construction material debris.
17. The Enforcement Officer may require additional or alternate soil erosion and sediment control measures, based on development site specific considerations and the effectiveness of the installed control measures.

**Standard Drain Tile Notes**

1. Drain tiles disturbed during regulated development shall be reconnected by those responsible for their disturbance, unless the development plans specify abandonment of the drain tiles.
2. All abandoned drain tiles within disturbed areas shall be removed in their entirety.
3. Drain tiles within the disturbed area of a development site shall be replaced, bypassed around the development site or intercepted and connected to the stormwater management system for the development site. The size of the replaced or bypassed drain tile shall be equivalent to the existing drain tile.

**RESPONSIBLE PARTIES FOR MAINTAINING EROSION CONTROL**

THE GENERAL CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE MAINTENANCE OF EROSION AND SEDIMENT CONTROL PRACTICES.

THEIR NAME AND TELEPHONE NUMBERS SHALL BE ADDED TO THE PLANS IN THE SPACE PROVIDED AFTER THE CONTRACT IS AWARDED.

\_\_\_\_\_  
(NAME)

\_\_\_\_\_  
(PRIMARY CONTACT TELEPHONE NUMBER)

\_\_\_\_\_  
(SECONDARY CONTACT TELEPHONE NUMBER)

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	DESIGNED - APK	REVISED -	<b>McHENRY COUNTY CONSERVATION DISTRICT</b> RIDGEFIELD TRACE EXTENSION BICYCLE PATH	<b>STANDARD SOIL EROSION AND SEDIMENT CONTROL AND DRAIN TILE NOTES</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - CJC	REVISED -		119	15-C2000-04-BT	McHENRY	17	3		
CHECKED - MDW	REVISED -			CONTRACT NO. 61D89						
DATE - 5-29-17	FILE - 150114-GEN-NOTE.sht			SCALE: NONE	STA. TO STA.	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM DESCRIPTION	UNIT	CONSTRUCTION	
			80% FEDERAL	PEDESTRIAN 0028
20101200	TREE ROOT PRUNING	EACH		20
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH		20
20200100	EARTH EXCAVATION	CU YD	1,035	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	249	
20400800	FURNISHED EXCAVATION	CU YD	375	
20800150	TRENCH BACKFILL	CU YD	10	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2,478	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	605	
* 25000200	SEEDING, CLASS 2	ACRE	0.75	
* 25000312	SEEDING, CLASS 4A	ACRE	1.00	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68	
* 25100630	EROSION CONTROL BLANKET	SQ YD	8,228	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	170	
28000305	TEMPORARY DITCH CHECKS	FOOT	32	
28000400	PERIMETER EROSION BARRIER	FOOT	3,010	
28100105	STONE RIPRAP, CLASS A3	SQ YD	56	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	170	
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	164	
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	1,922	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	231	
42001300	PROTECTIVE COAT	SQ YD	116	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	24	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	994	
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	96	
42400800	DETECTABLE WARNINGS	SQ FT	32	
44000100	PAVEMENT REMOVAL	SQ YD	107	
542C0220	PIPE CULVERTS, CLASS C, TYPE 1 15"	FOOT	40	

\* INDICATES SPECIALTY ITEM

CODE NO.	ITEM DESCRIPTION	UNIT	CONSTRUCTION	
			80% FEDERAL	PEDESTRIAN 0028
54213870	STEEL END SECTIONS 15"	EACH		2
* 56400100	FIRE HYDRANTS TO BE MOVED	EACH		2
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SQ YD	831	
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	32	
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	85	
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2	
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	25	
67100100	MOBILIZATION	LSUM	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	
72000100	SIGN PANEL - TYPE 1	SQ FT	56	
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	165	
73000100	WOOD SIGN SUPPORT	FOOT	15	
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	64	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,531	
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	21	
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	
Z0019600	DUST CONTROL WATERING	UNIT	44	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	
* X0326981	ENGINEERED SOIL FURNISH AND PLACE (SPECIAL)	CU YD	124	
X0327039	TEMPORARY ACCESS ROAD (SPECIAL)	LSUM	1	
X1500001	BITUMINOUS SURFACE TREATMENT, (PREVENTIVE MAINTENANCE)	SQ YD	120	
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	2	
XX008231	AGGREGATE DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	245	
* K1001970	CA-7 WASHED GRAVEL FOR RAIN GARDEN	CU YD	215	
* K1003680	MULCH	SQ YD	588	
* K1005421	SEEDING (SPECIAL)	ACRE	0.1	

\* INDICATES SPECIALTY ITEM

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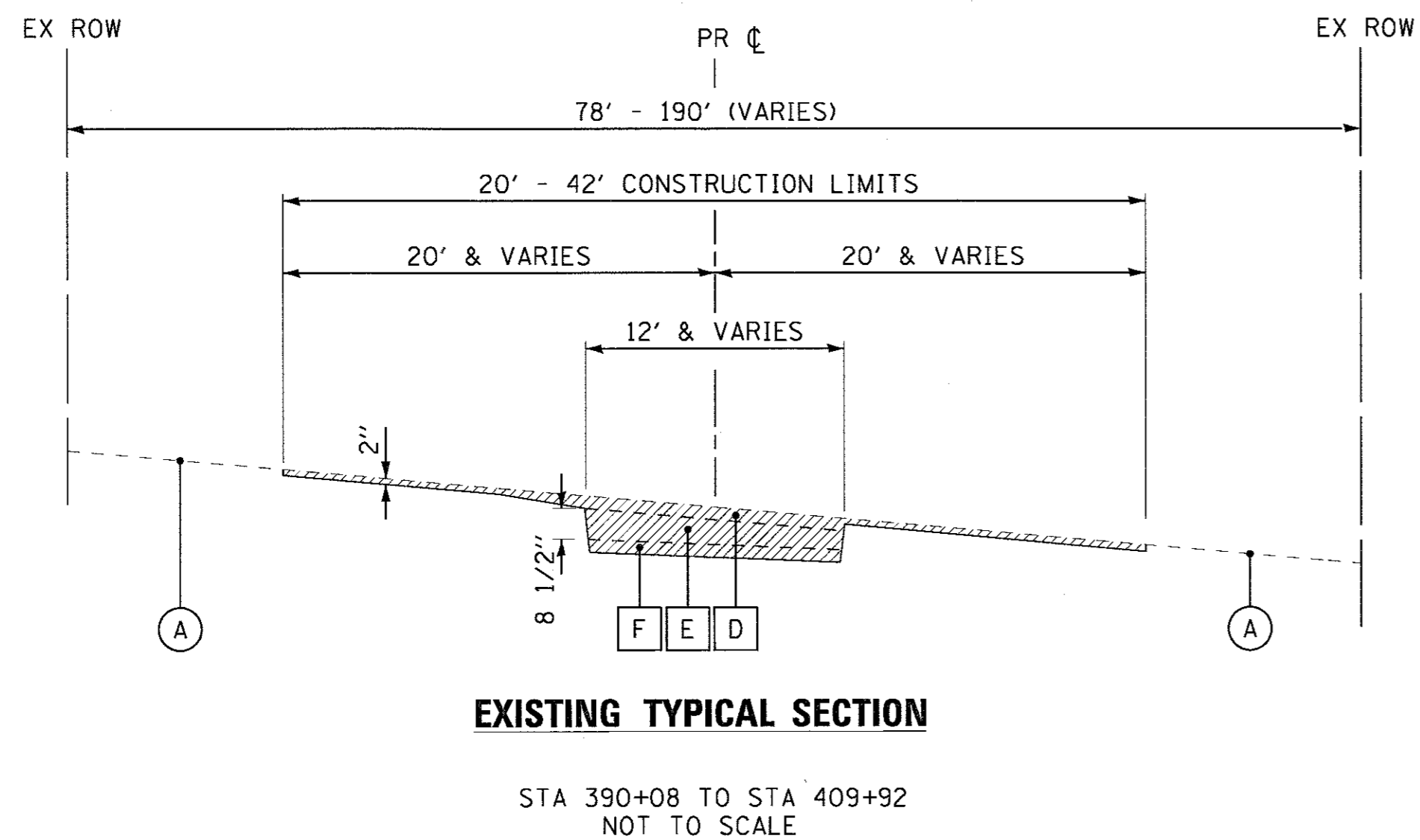
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CHECKED - MDW	REVISED -
DATE - 5-29-17	FILE - 150114-S00.sht

**McHENRY COUNTY CONSERVATION DISTRICT  
RIDGEFIELD TRACE EXTENSION  
BICYCLE PATH**

**SUMMARY OF QUANTITIES**

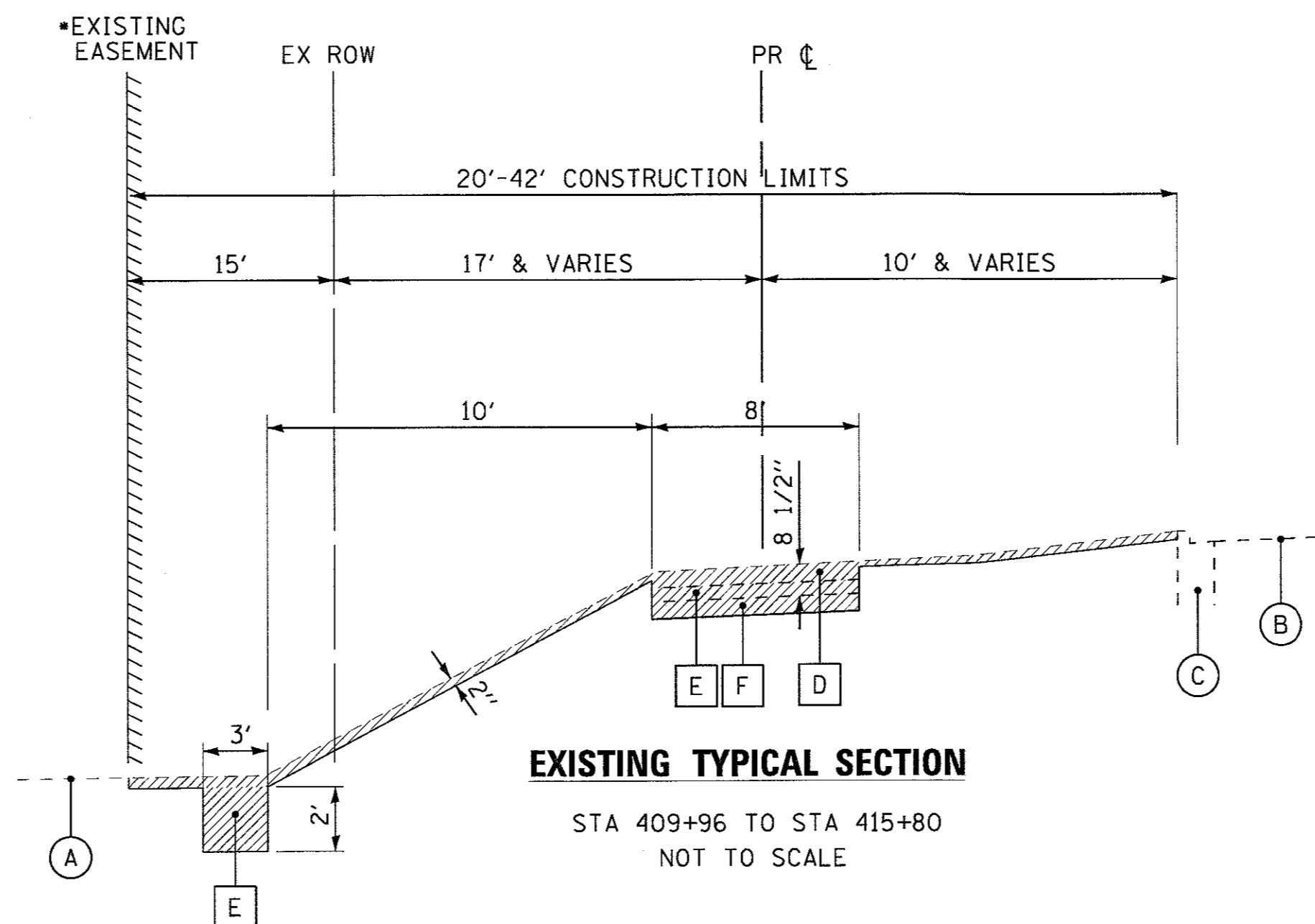
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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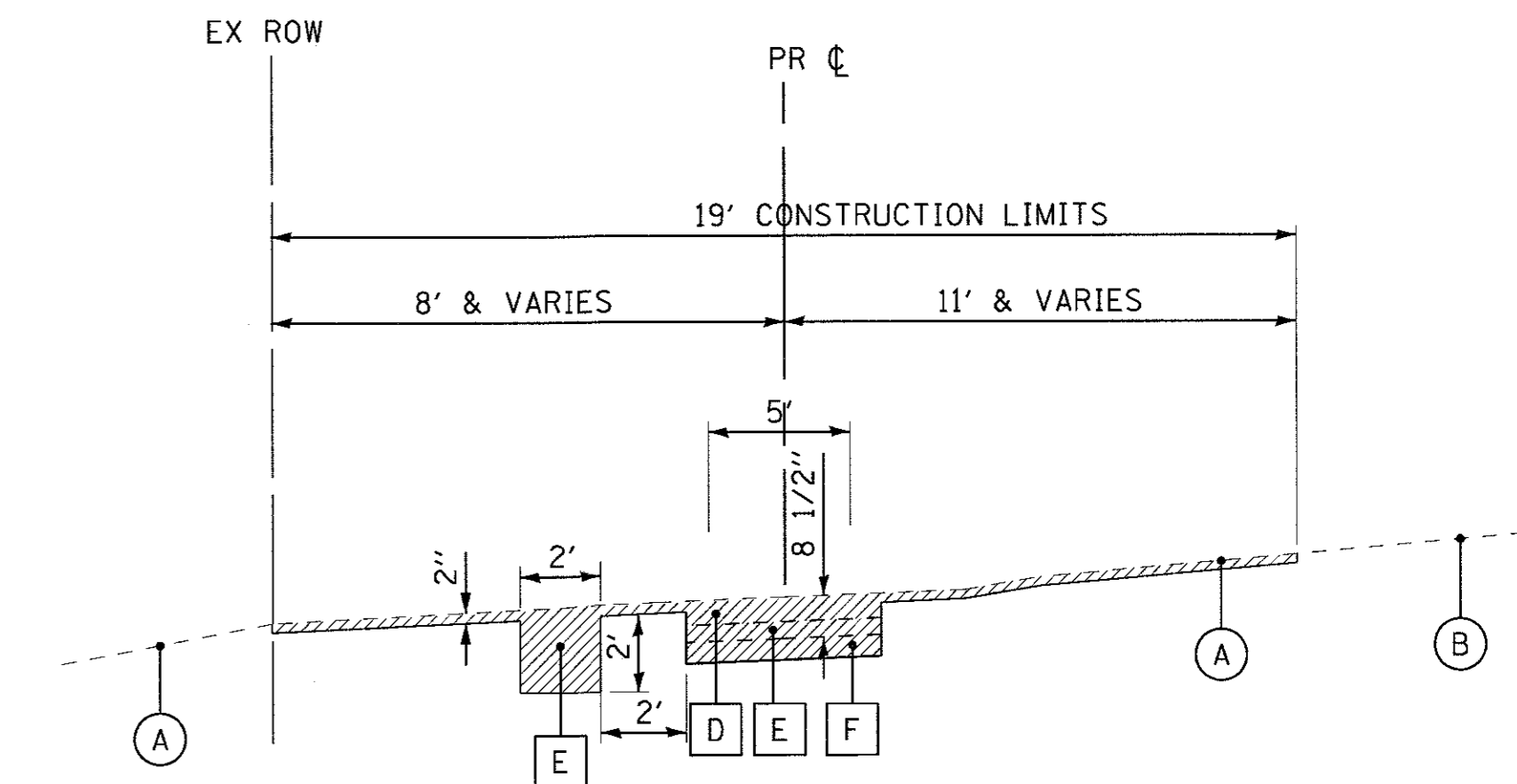
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NOT TO SCALE



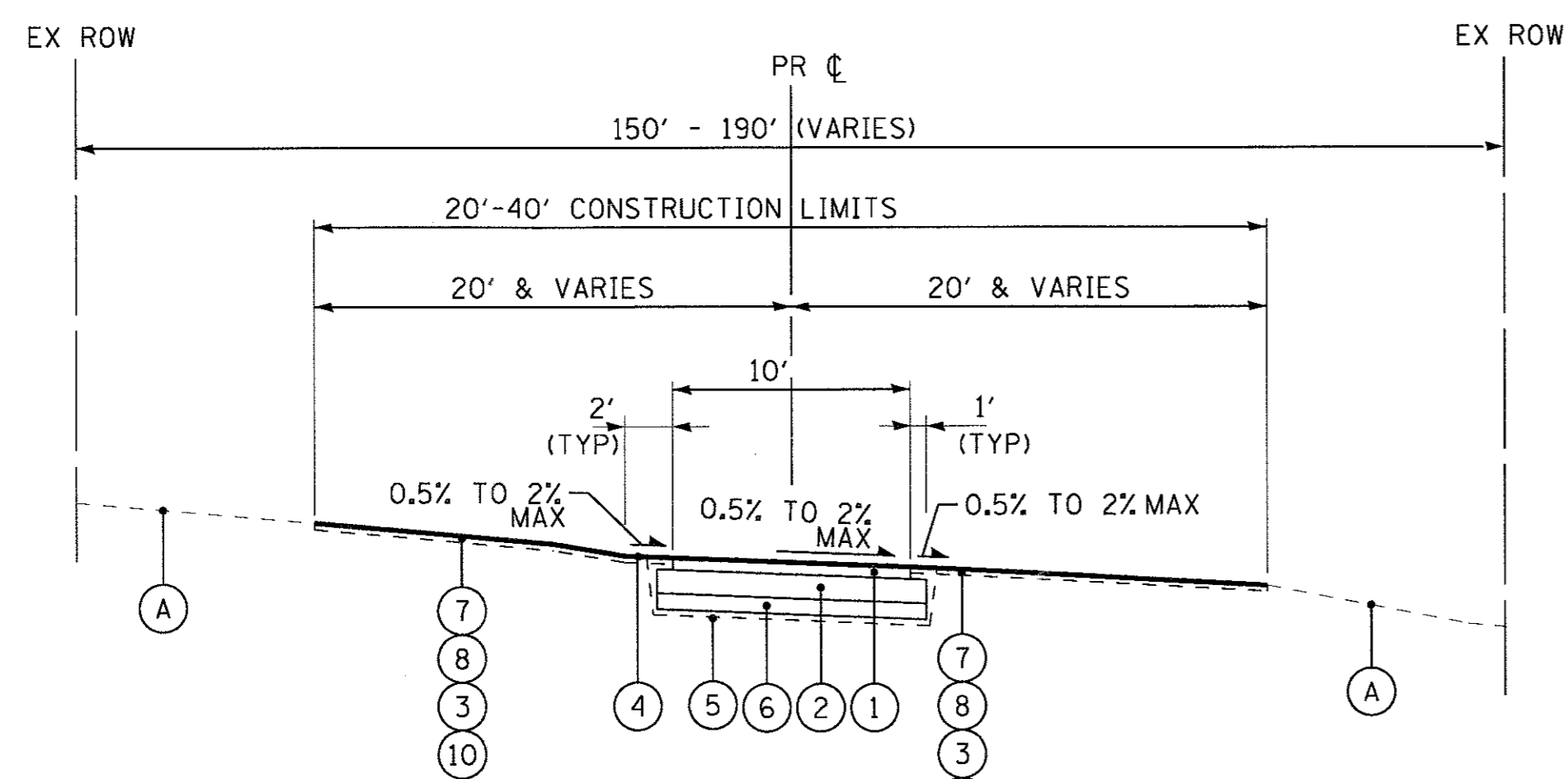
**EXISTING TYPICAL SECTION**

STA 409+96 TO STA 415+80  
NOT TO SCALE



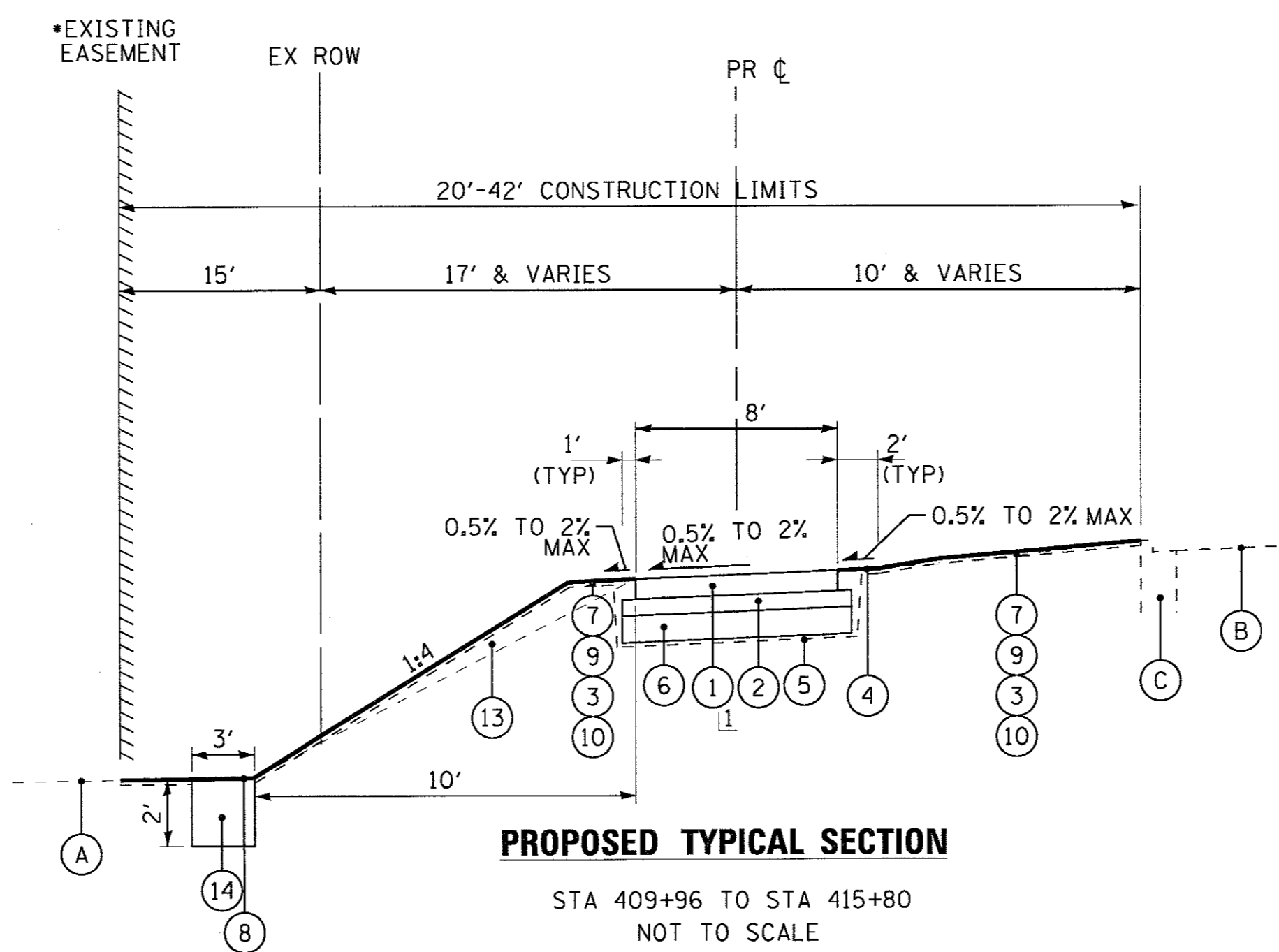
**EXISTING TYPICAL SECTION**

STA 508+92 TO STA 509+96  
NOT TO SCALE



**PROPOSED TYPICAL SECTION**

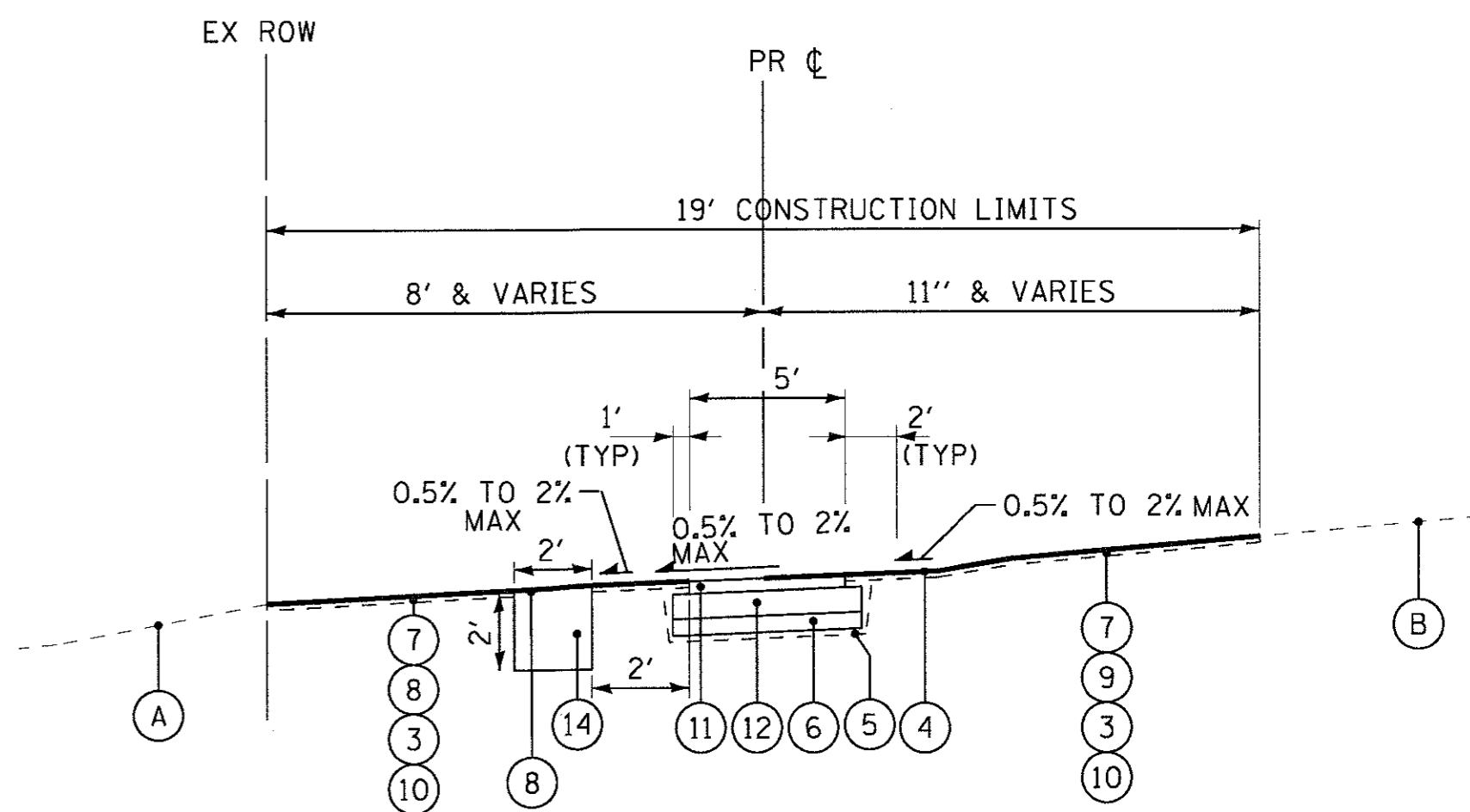
STA 390+08 TO STA 409+92  
NOT TO SCALE



**PROPOSED TYPICAL SECTION**

STA 409+96 TO STA 415+80  
NOT TO SCALE

1 RAILROAD ENTRANCE 8" PCC WITH  
AGGREGATE BASE COURSE, TYPE B-4"  
STA 411+20 TO STA 411+33



**PROPOSED TYPICAL SECTION**

STA 508+92 TO STA 509+96  
NOT TO SCALE

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @ Ndes
<b>BICYCLE PATH</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, IL 9.5 mm; 2 1/2"	4% @ 50 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ. YD./IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" 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.

**EXISTING LEGEND**

- (A) EXISTING GROUND
- (B) EXISTING PAVEMENT (OAK STREET)
- (C) CURB AND GUTTER
- (D) TOPSOIL EXCAVATION AND PLACEMENT (6" ASSUMED THICKNESS)
- (E) EARTH EXCAVATION
- (F) EARTH EXCAVATION/REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (UNDERCUT) (6-INCH MAXIMUM DEPTH)
- ▨ ITEM TO BE REMOVED

**PROPOSED LEGEND**

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N50, 2 1/2"
- ② AGGREGATE BASE COURSE, TYPE B 6"
- ③ TOPSOIL EXCAVATION AND PLACEMENT
- ④ EARTH SHOULDER (PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT)
- ⑤ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑥ AGGREGATE SUBGRADE IMPROVEMENT (6-INCH MAXIMUM DEPTH)
- ⑦ EROSION CONTROL BLANKET
- ⑧ SEEDING, CLASS 4A (PER IDOT STANDARD SPECIFICATIONS ART. 250.07)
- ⑨ SEEDING, CLASS 2
- ⑩ TEMPORARY EROSION CONTROL SEEDING
- ⑪ PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- ⑫ AGGREGATE BASE COURSE, TYPE B 4"
- ⑬ EMBANKMENT
- ⑭ INFILTRATION TRENCH

• MCHENRY COUNTY CONSERVATION DISTRICT HAS AN AGREEMENT WITH COMED TO BUILD THE PATH ON COMED'S RIGHT-OF-WAY.

•• AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT (CU YD) WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE AND/OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 (04/01/2016) OF THE STAND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE CURRENT IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

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 CHECKED BY: MDW  
 DATE: 5-29-17  
 FILE: 150114-TYP.sht



DESIGNED - APK	REVISED -
DRAWN - CJC	REVISED -
CHECKED - MDW	REVISED -
DATE - 5-29-17	FILE - 150114-TYP.sht

**MCHENRY COUNTY CONSERVATION DISTRICT**  
RIDGEFIELD TRACE EXTENSION  
BICYCLE PATH

**TYPICAL SECTIONS AND  
HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
119	15-C2000-04-BT	MCHENRY	17	5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D89	

**EARTHWORK SCHEDULE**

EARTHWORK							
	1	2	3	4	5	6	7
STATION	TOPSOIL EXCAVATION AND PLACEMENT (CU YD.)	AGGREGATE SUBGRADE IMPROVEMENT (UNDERCUT) (CU YD)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	EARTH EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (CU YD)	EMBANKMENT (CU YD)	BALANCE WASTE (+) SHORTAGE (-) (CU YD)
390+08 TO 409+92	365	110	110	230	196	329	(133)
508+10 TO 410+32	42	20	20	203	173	7	166
411+52 TO 415+80	119	40	40	157	134	101	33
BIO-INFILTRATION & INFILTRATION TRENCH	79	-	79	445	379	20	359
<b>TOTALS</b>	<b>605</b>	<b>170</b>	<b>249</b>	<b>1,035</b>	<b>882</b>	<b>457</b>	<b>425</b>

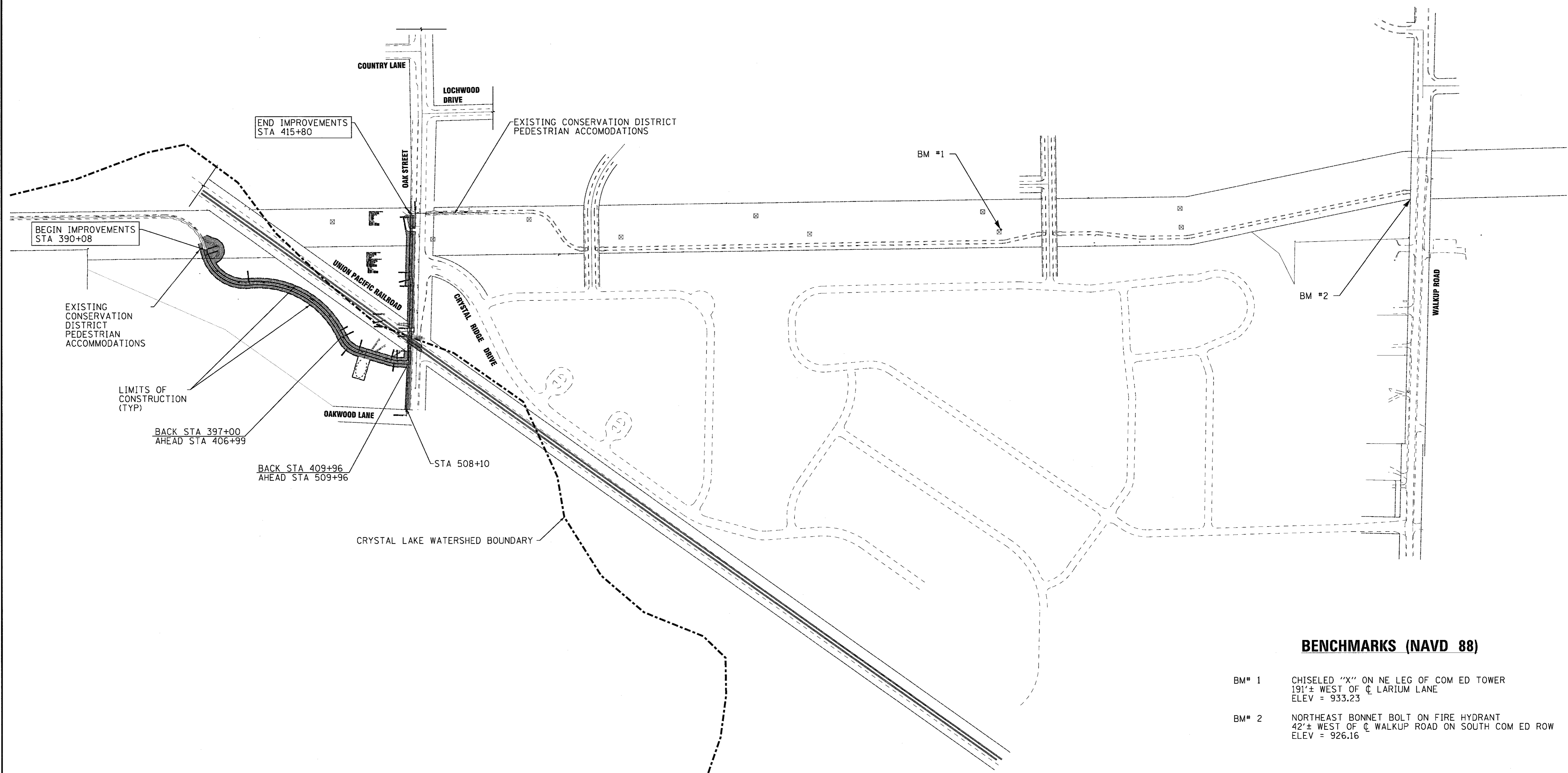
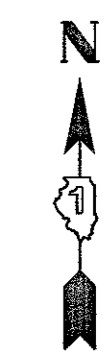
**NOTES:**  
 COLUMN 1 = 6" TOPSOIL REMOVAL FROM CROSS SECTIONS  
 COLUMN 2 = ASSUMED TO BE 6" DEPTH UNDER APPROXIMATELY 50% OF PROPOSED PATH  
 COLUMN 3 = UNDERCUT  
 COLUMN 4 = FROM CROSS SECTION END AREAS  
 COLUMN 5 = [COLUMN 4]]X 0.85, ASSUME 15% SHRINKAGE  
 COLUMN 6 = FROM CROSS SECTION END AREAS  
 COLUMN 7 = [COLUMN 5]- [COLUMN 6]

**NOTES:**  
 1 TOPSOIL SHALL BE EXCAVATED TO A DEPTH OF 6" IN AREAS DISTURBED BY PROPOSED WORK.  
 2 EXCAVATED TOPSOIL REQUIRED AT SEEDING LOCATIONS SHALL BE PLACED AT A DEPTH OF 6" AND AS TOPSOIL EXCAVATION AND PLACEMENT.  
 3 EXCAVATED TOPSOIL NOT REQUIRED ON THE PROJECT WILL BE SPREAD OUT ON SITE OR PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.  
 4 ANY AGGREGATE SUBGRADE IMPROVEMENT OR REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL NOT NEEDED AT TIME OF EXCAVATION SHALL BE DELETED FROM CONTRACT.  
 5 FURNISHED EXCAVATION QUANTITY TO BE UTILIZED AS DIRECTED BY THE ENGINEER.

SUMMARY				
20200100	20201200	20400800	21101505	30300001
EARTH EXCAVATION (CU YD)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	FURNISHED EXCAVATION (CU YD)	TOPSOIL EXCAVATION AND PLACEMENT (CU YD)	AGGREGATE SUBGRADE IMPROVEMENT (UNDERCUT) (CU YD)
1,035	249	375	605	170

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 R:\C\175\150114-500.sht

	DESIGNED - APK	REVISED -	<b>McHENRY COUNTY CONSERVATION DISTRICT</b> <b>RIDGEFIELD TRACE EXTENSION</b> <b>BICYCLE PATH</b>	<b>SCHEDULE OF QUANTITIES</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - CJC	REVISED -				119	15-C2000-04-BT	McHENRY	17	6
	CHECKED - MDW	REVISED -				CONTRACT NO. 61D89				
DATE - 5-29-17	FILE - 150114-500.sht		SCALE: NONE	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**BENCHMARKS (NAVD 88)**

- BM# 1 CHISELED "X" ON NE LEG OF COM ED TOWER  
191'± WEST OF C LARIUM LANE  
ELEV = 933.23
- BM# 2 NORTHEAST BONNET BOLT ON FIRE HYDRANT  
42'± WEST OF C WALKUP ROAD ON SOUTH COM ED ROW  
ELEV = 926.16

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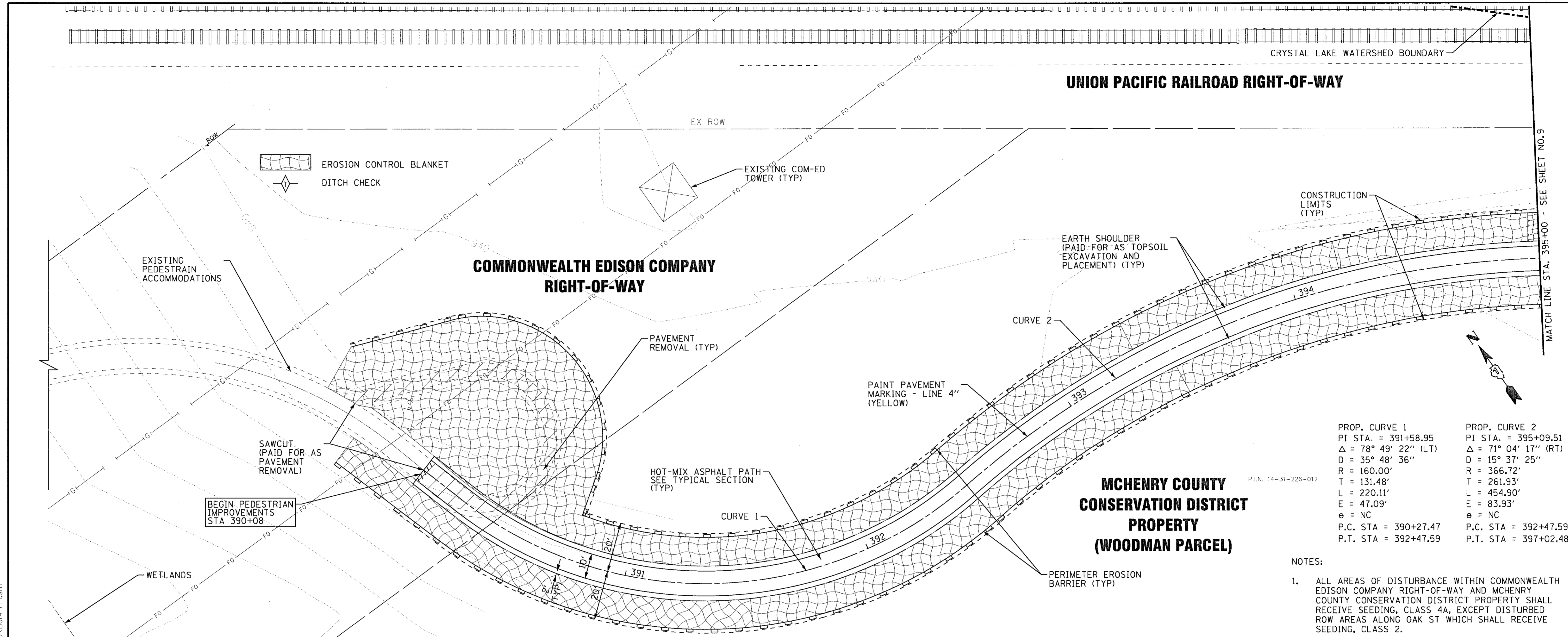
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DRAWN -	CJC	REVISED -	
CHECKED -	MDW	REVISED -	
DATE -	5-29-17	FILE -	090593-OVERALL_LAYOUT.sht

**McHENRY COUNTY CONSERVATION DISTRICT**  
**RIDGEFIELD TRACE EXTENSION**  
**BICYCLE PATH**

**OVERALL PLAN, SIGNAGE AND BENCHMARKS**

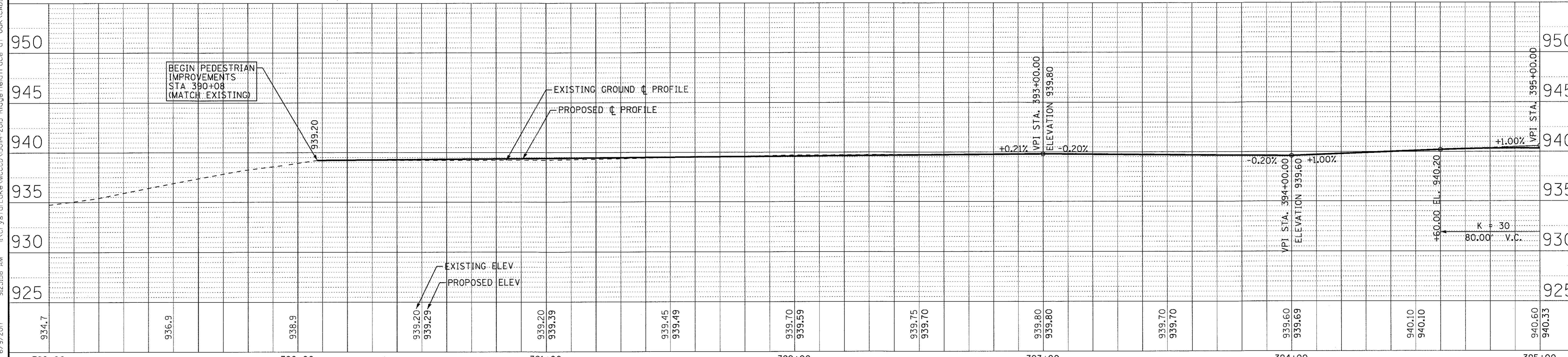
SCALE: 1" = 200'      STA.      TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
119	15-C2000-04-BT	McHENRY	17	7
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
			CONTRACT NO. 61D89	



PROP. CURVE 1	PROP. CURVE 2
PI STA. = 391+58.95	PI STA. = 395+09.51
$\Delta = 78^\circ 49' 22''$ (LT)	$\Delta = 71^\circ 04' 17''$ (RT)
$D = 35^\circ 48' 36''$	$D = 15^\circ 37' 25''$
$R = 160.00'$	$R = 366.72'$
$T = 131.48'$	$T = 261.93'$
$L = 220.11'$	$L = 454.90'$
$E = 47.09'$	$E = 83.93'$
$e = NC$	$e = NC$
P.C. STA = 390+27.47	P.C. STA = 392+47.59
P.T. STA = 392+47.59	P.T. STA = 397+02.48

- NOTES:
- ALL AREAS OF DISTURBANCE WITHIN COMMONWEALTH EDISON COMPANY RIGHT-OF-WAY AND MCHENRY COUNTY CONSERVATION DISTRICT PROPERTY SHALL RECEIVE SEEDING, CLASS 4A, EXCEPT DISTURBED ROW AREAS ALONG OAK ST WHICH SHALL RECEIVE SEEDING, CLASS 2.



934.7	936.9	938.9	939.20 939.29	939.20 939.39	939.45 939.49	939.70 939.59	939.75 939.70	939.80 939.80	939.70 939.70	939.60 939.69	940.10 940.10	940.60 940.33
389+00	390+00	391+00	392+00	393+00	394+00	395+00						

**BAXTER & WOODMAN**  
Consulting Engineers

DESIGNED - AKP	REVISED -
DRAWN - CJC	REVISED -
CHECKED - MDW	REVISED -
DATE - 5-29-17	FILE - 150114-PP1.sht

**MCHENRY COUNTY CONSERVATION DISTRICT**  
**RIDGEFIELD TRACE EXTENSION**  
**BICYCLE PATH**

**PLAN & PROFILE**

SCALE: H: 1"=20' V: 1"=5'

STA. 389+00 TO STA. 395+00

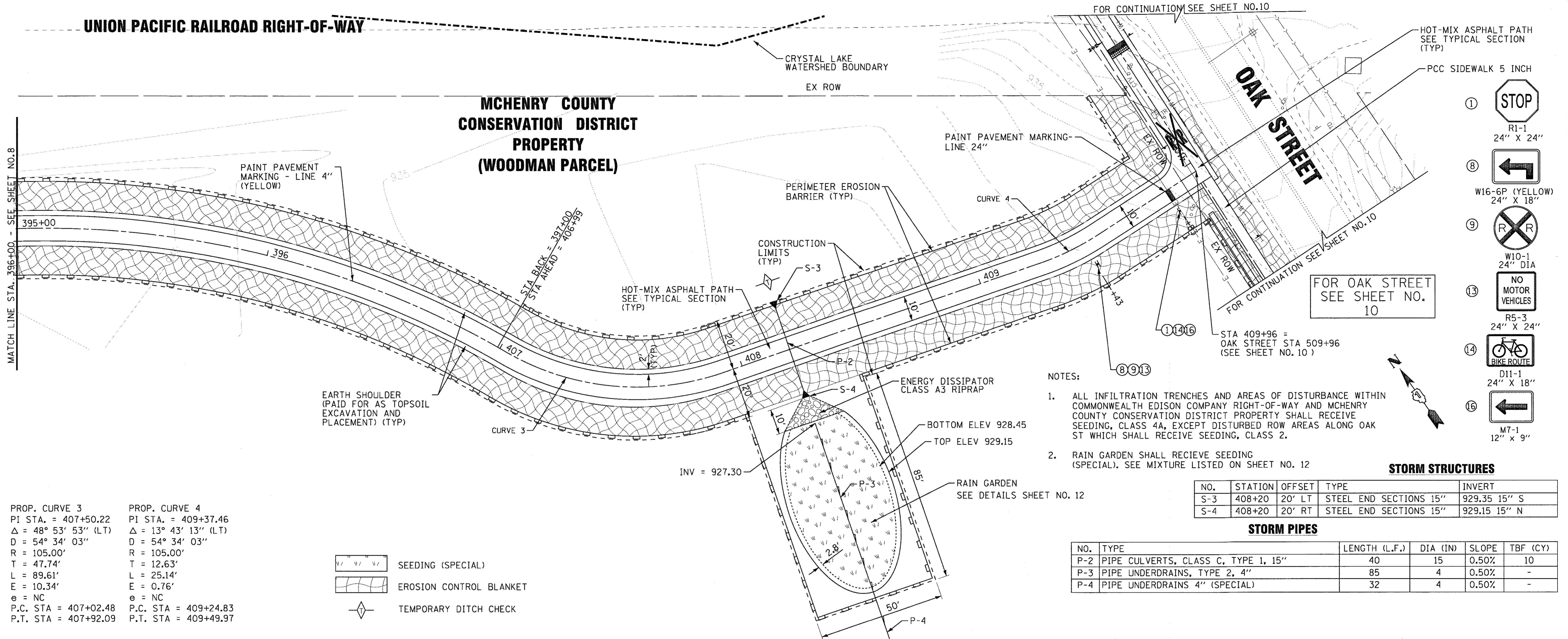
F.A. RTE. 119	SECTION 15-C2000-04-BT	COUNTY McHENRY	TOTAL SHEETS 17	SHEET NO. 8
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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 6/9/2017



UNION PACIFIC RAILROAD RIGHT-OF-WAY

**MCHENRY COUNTY  
CONSERVATION DISTRICT  
PROPERTY  
(WOODMAN PARCEL)**



PROP. CURVE 3  
PI STA. = 407+50.22  
Δ = 48° 53' 53" (LT)  
D = 54° 34' 03"  
R = 105.00'  
T = 47.74'  
L = 89.61'  
E = 10.34'  
e = NC  
P.C. STA = 407+02.48  
P.T. STA = 407+92.09

PROP. CURVE 4  
PI STA. = 409+37.46  
Δ = 13° 43' 13" (LT)  
D = 54° 34' 03"  
R = 105.00'  
T = 12.63'  
L = 25.14'  
E = 0.76'  
e = NC  
P.C. STA = 409+24.83  
P.T. STA = 409+49.97

SEEDING (SPECIAL)  
EROSION CONTROL BLANKET  
TEMPORARY DITCH CHECK

NOTES:

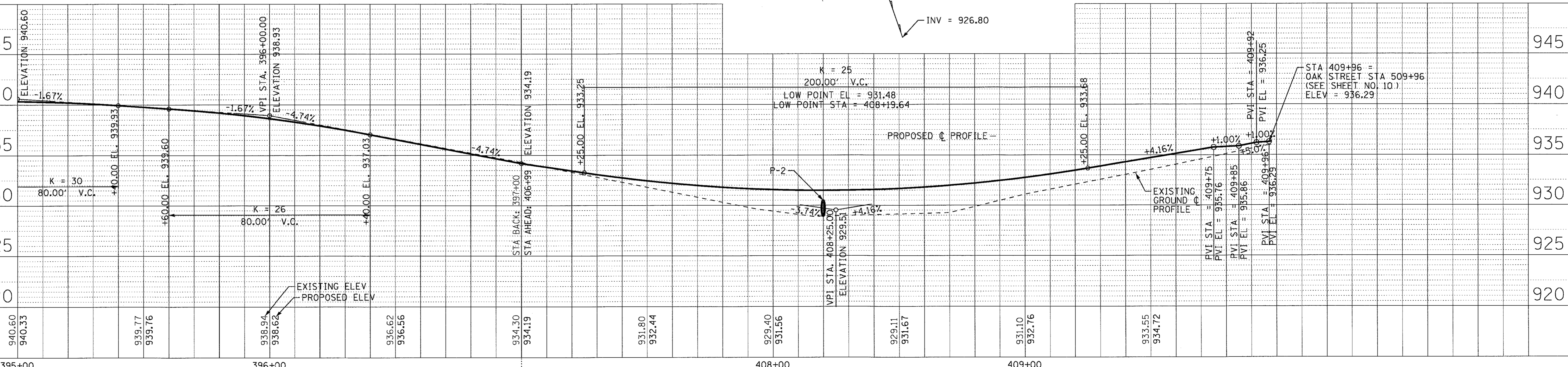
- ALL INFILTRATION TRENCHES AND AREAS OF DISTURBANCE WITHIN COMMONWEALTH EDISON COMPANY RIGHT-OF-WAY AND MCHENRY COUNTY CONSERVATION DISTRICT PROPERTY SHALL RECEIVE SEEDING, CLASS 4A, EXCEPT DISTURBED ROW AREAS ALONG OAK ST WHICH SHALL RECEIVE SEEDING, CLASS 2.
- RAIN GARDEN SHALL RECEIVE SEEDING (SPECIAL). SEE MIXTURE LISTED ON SHEET NO. 12

**STORM STRUCTURES**

NO.	STATION	OFFSET	TYPE	INVERT
S-3	408+20	20' LT	STEEL END SECTIONS 15"	929.35 15" S
S-4	408+20	20' RT	STEEL END SECTIONS 15"	929.15 15" N

**STORM PIPES**

NO.	TYPE	LENGTH (L.F.)	DIA (IN)	SLOPE	TBF (CY)
P-2	PIPE CULVERTS, CLASS C, TYPE 1, 15"	40	15	0.50%	10
P-3	PIPE UNDERDRAINS, TYPE 2, 4"	85	4	0.50%	-
P-4	PIPE UNDERDRAINS 4" (SPECIAL)	32	4	0.50%	-



DESIGNED	REVISIONS
AKP	
CJC	
MDW	
5-29-17	

**MCHENRY COUNTY CONSERVATION DISTRICT**  
RIDGEFIELD TRACE EXTENSION  
BICYCLE PATH

**PLAN & PROFILE**  
SCALE: H: 1"=20' V: 1"=5'  
STA. 395+00 TO STA. 409+96.10

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
119	15-C2000-04-BT	MCHENRY	17	9

CONTRACT NO. 61D89  
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

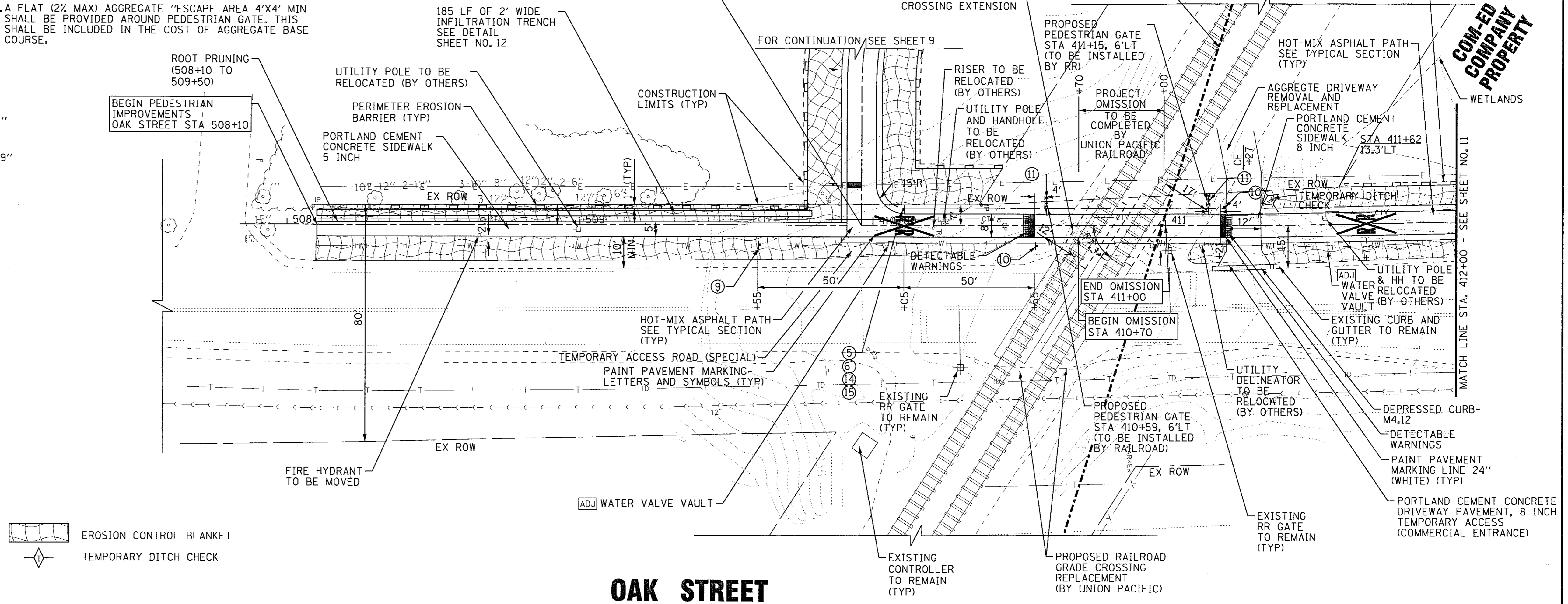
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**SIGN LEGEND**

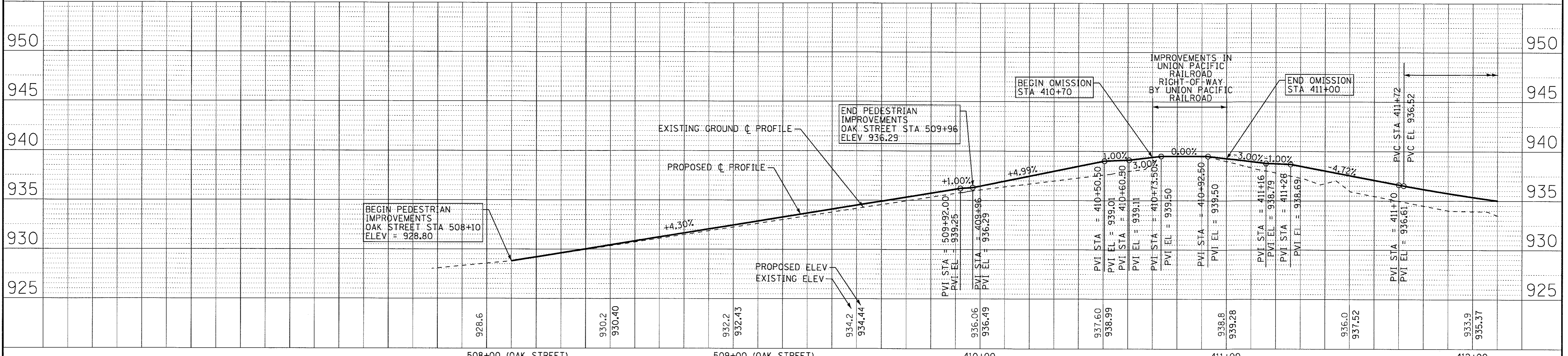
- ⑤ McHenry County College-Woodstock  
D1-3 (MODIFIED)  
30" X 24"  
(4" SERIES B WHITE LETTERS ON GREEN)
- ⑥ M16-5P  
24" X 18"  
(GREEN WITH WHITE LETTERS)
- ⑦ M16-5P  
24" X 18"  
(GREEN WITH WHITE LETTERS)
- ⑧ W10-1  
24" DIA  
LOOK
- ⑨ R15-8  
18" X 9"  
LOOK
- ⑩ R15-1  
24" X 4.5"  
CRACKS
- ⑪ R15-2P  
13.5" X 9"  
2 TRACKS  
MOUNTED ON PEDESTRIAN GATES (INSTALLED BY OTHERS)
- ⑫ M16-5P  
24" X 18"  
(GREEN WITH WHITE LETTERS)
- ⑬ D11-1  
24" X 18"  
BIKE ROUTE
- ⑭ MT-1  
12" X 9"  
LOOK

- NOTES:**
- ALL AREAS OF DISTURBANCE WITHIN COMMONWEALTH EDISON COMPANY RIGHT-OF-WAY AND MCHENRY COUNTY CONSERVATION DISTRICT PROPERTY SHALL RECEIVE SEEDING, CLASS 4A, EXCEPT DISTURBED ROW AREAS ALONG OAK ST WHICH SHALL RECEIVE SEEDING, CLASS 2.
  - EXISTING BRUSH AND GARDEN MATERIALS IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED AND OR RELOCATED AS DETERMINED BY THE ENGINEER AND INCLUDED IN THE COST OF EARTH EXCAVATION.
  - A FLAT (2% MAX) AGGREGATE "ESCAPE AREA 4'X4' MIN SHALL BE PROVIDED AROUND PEDESTRIAN GATE. THIS SHALL BE INCLUDED IN THE COST OF AGGREGATE BASE COURSE.

**MCHENRY COUNTY CONSERVATION DISTRICT PROPERTY (WOODMAN PARCEL)**



**OAK STREET**



DESIGNED - AKP	REVISED -
DRAWN - CJC	REVISED -
CHECKED - MDW	REVISED -
DATE - 5-29-17	FILE - 150114-PP2A.sh+

**MCHENRY COUNTY CONSERVATION DISTRICT  
RIDGEFIELD TRACE EXTENSION  
BICYCLE PATH**

**PLAN & PROFILE**

SCALE: H: 1"=20' V: 1"=5' STA. 409+96.10 TO STA. 412+00 F.A. RTE. 119 SECTION 15-C2000-04-BT COUNTY MCHENRY TOTAL SHEETS 17 SHEET NO. 10 CONTRACT NO. 61D89 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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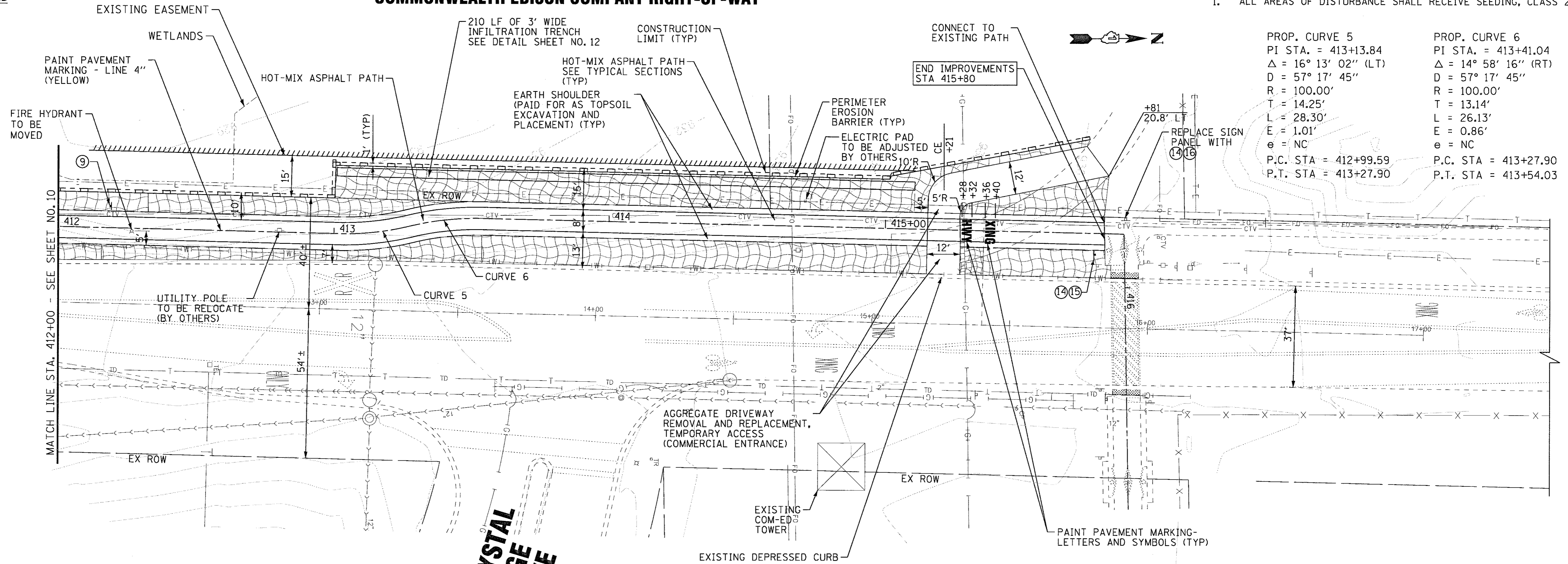
**SIGN LEGEND**

- 9 W10-1  
24" DIA
- 14 D11-1  
24" X 18"
- 15 M7-1  
12" X 9"
- 16 M7-1  
12" X 9"

**COMMONWEALTH EDISON COMPANY RIGHT-OF-WAY**

**NOTES:**

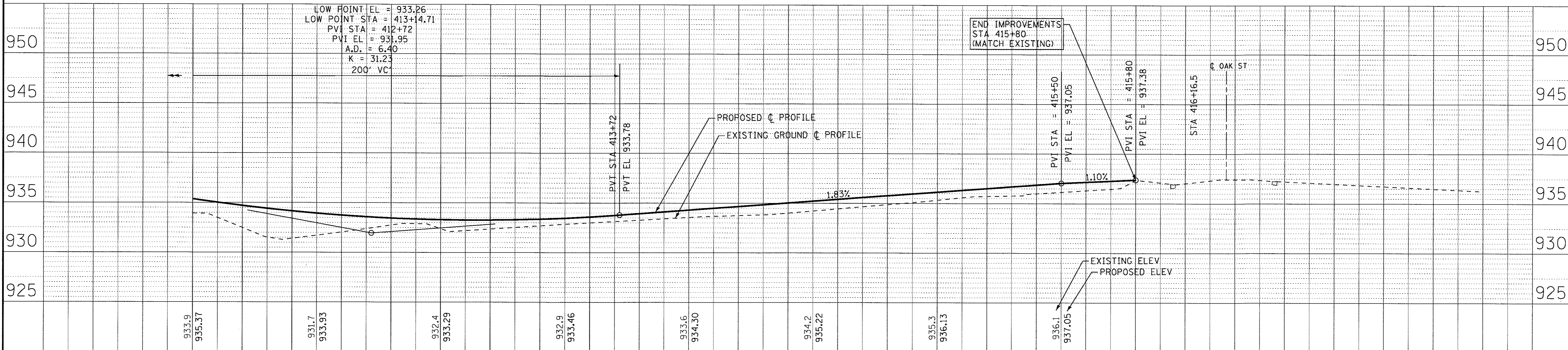
1. ALL AREAS OF DISTURBANCE SHALL RECEIVE SEEDING, CLASS 2



PROP. CURVE 5  
 PI STA. = 413+13.84  
 $\Delta = 16^\circ 13' 02''$  (LT)  
 $D = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 14.25'$   
 $L = 28.30'$   
 $E = 1.01'$   
 $e = NC$   
 P.C. STA = 412+99.59  
 P.T. STA = 413+27.90

PROP. CURVE 6  
 PI STA. = 413+41.04  
 $\Delta = 14^\circ 58' 16''$  (RT)  
 $D = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 13.14'$   
 $L = 26.13'$   
 $E = 0.86'$   
 $e = NC$   
 P.C. STA = 413+27.90  
 P.T. STA = 413+54.03

**OAK STREET**

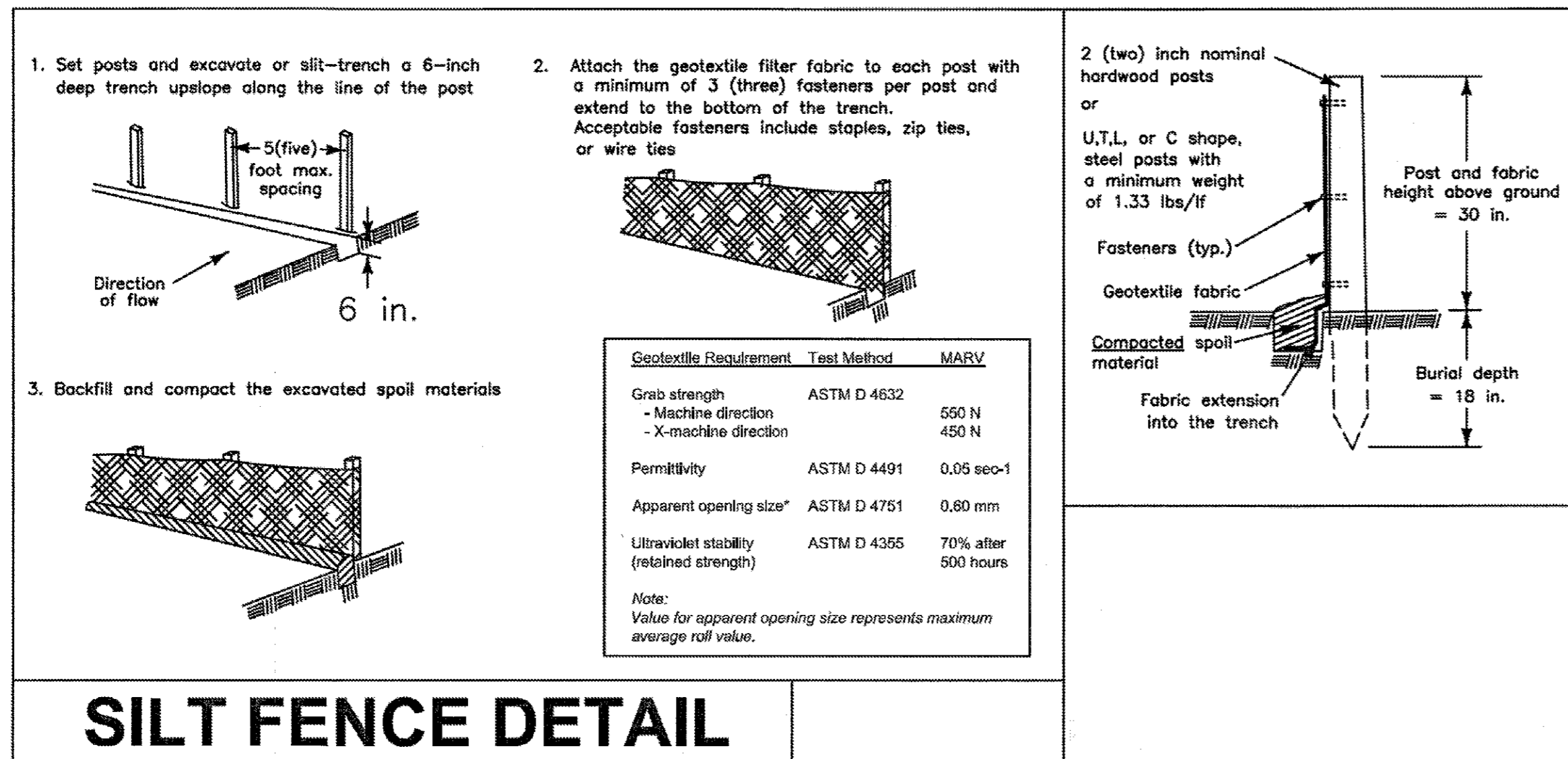


LOW POINT EL = 933.26  
 LOW POINT STA = 413+14.71  
 PVI STA = 412+72  
 PVI EL = 931.95  
 A.D. = 6.40  
 K = 31.23  
 200' VC

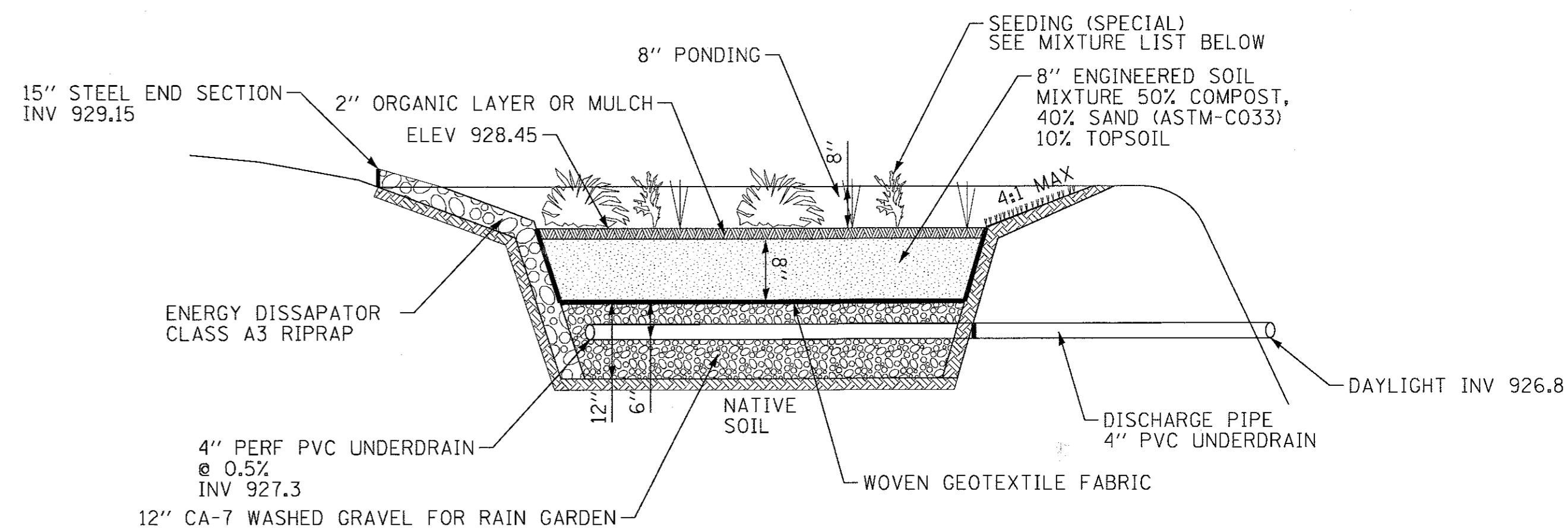
END IMPROVEMENTS  
 STA 415+80  
 (MATCH EXISTING)

	DESIGNED - AKP	REVISED -	<b>McHENRY COUNTY CONSERVATION DISTRICT</b> RIDGFIELD TRACE EXTENSION BICYCLE PATH	<b>PLAN &amp; PROFILE</b>		F.A. RTE. 119	SECTION 15-C2000-04-BT	COUNTY McHENRY	TOTAL SHEETS 17	SHEET NO. 11
	DRAWN - CJC	REVISED -		SCALE: H: 1"=20' V: 1"=5'	STA. 411+80 TO STA. 427+20	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 61D89		
	CHECKED - MDW	REVISED -	FILE - 150114-PP3.sht							
	DATE - 5-29-17									

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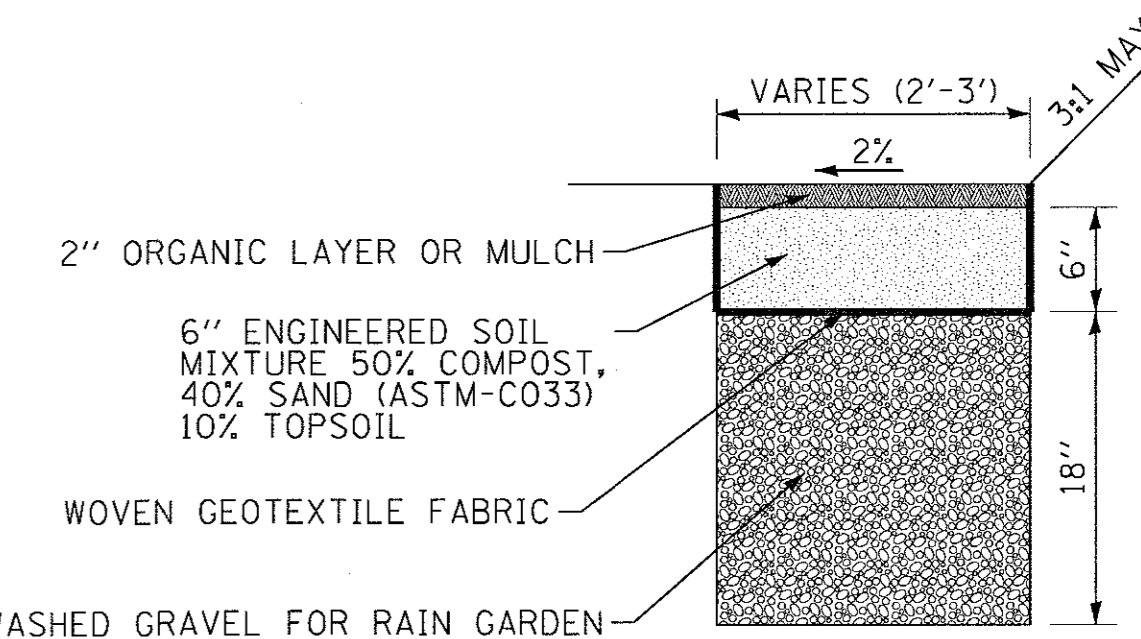
**SILT FENCE DETAIL**



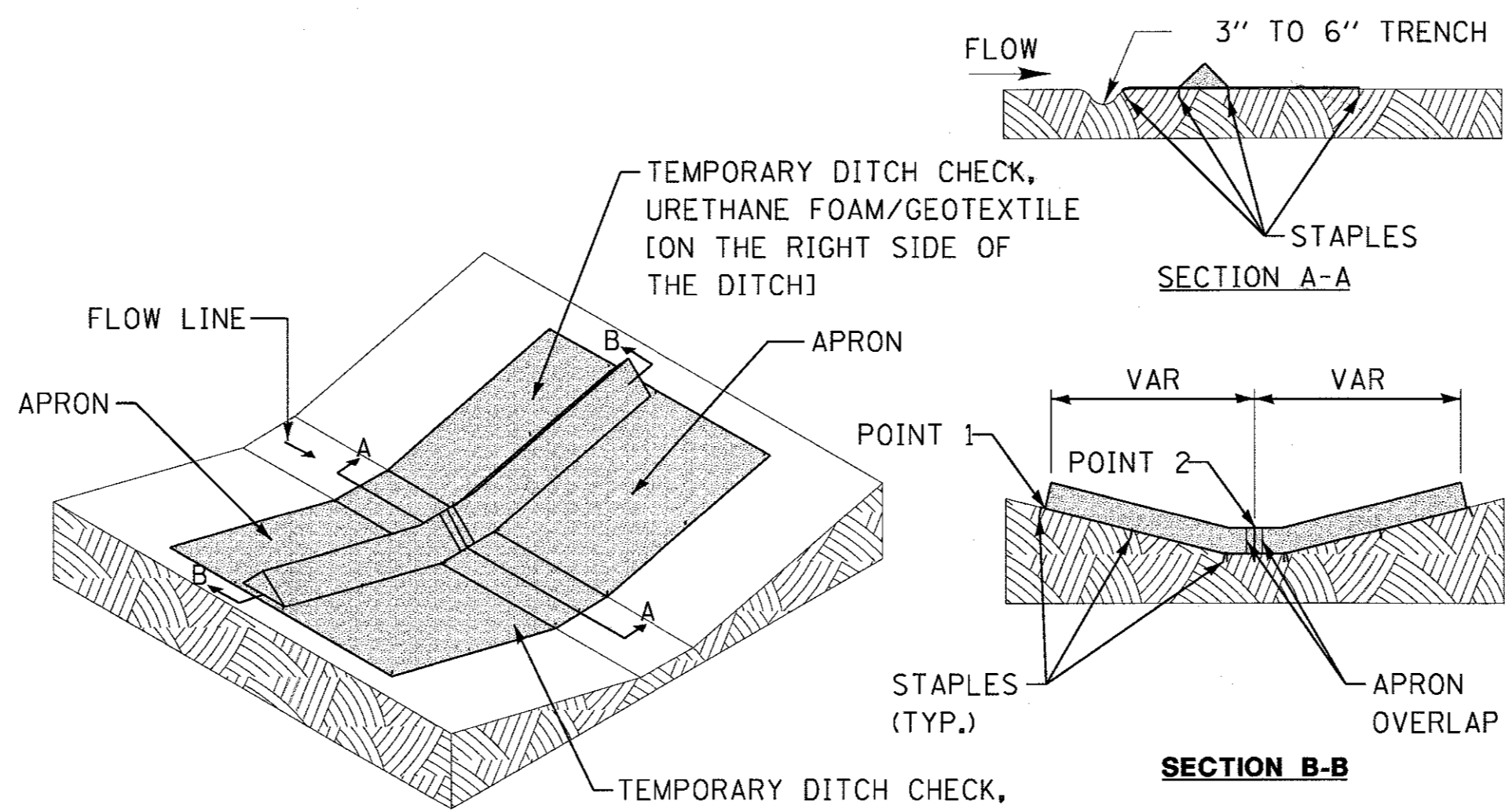
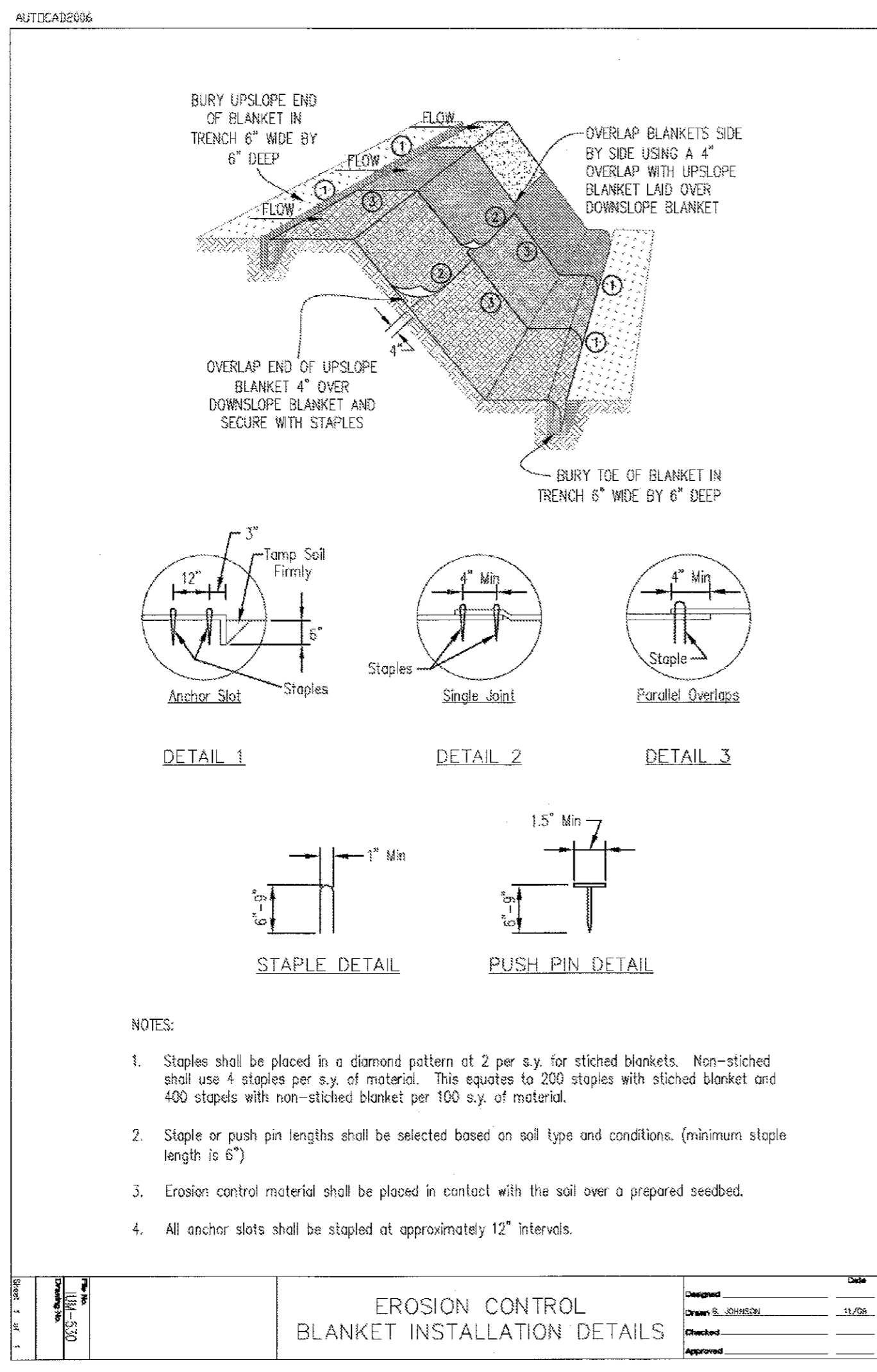
**RAIN GARDEN DETAIL**  
NO SCALE

**NOTES**

1. AVOID INSTALLATION ON SLOPES GREATER THAN 15 TO 1 AND ABOVE COMPACTED FILL.
2. WOVEN GEOTEXTILE FABRIC SHALL MEET REQUIREMENTS OF IUM MATERIAL SPECIFICATION 592 GEOTEXTILE, TABLE 1, CLASS 1, WITH AN APPARENT OPENING SIZE OF 0.50 MM.
3. MULCH LAYER SHALL BE HARDWOOD MULCH OR OTHER NON-FLOATING GROUND COVER.
4. BASED ON OBSERVED SOIL CONDITIONS DURING CONSTRUCTION ACTIVITIES ON ADJACENT PATH SECTIONS, THE SEASONAL GROUNDWATER LEVEL IS NOT ANTICIPATED TO BE WITHIN 4' OF EXISTING GRADE.



**INFILTRATION TRENCH DETAIL**  
NO SCALE



**TEMPORARY DITCH CHECK**

NO SCALE

- NOTES:**
1. THE INSTALLATION SHOWN ABOVE WILL BE MEASURED FOR PAYMENT IN FEET PERPENDICULAR TO THE FLOW LINE.

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE DITCH AS SHOWN ON THE DIAGRAM.

POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

Seeding (Special)		
Scientific Name	Common Name	Quantity (Oz/Acre)
Allium cernuum	Nodding Wild Onion	2
Andropogon gerardii	Big bluestem	24
Asclepias incarnata	Swamp Milkweed	2
Bouteloua curtipendula	Side-oats grama	8
Carex bebbii	Bebb's Oval Sedge	4
Carex stipata	Common Fox Sedge	8
Carex vulpinoidea	Brown Fox Sedge	8
Dalea purpurea	Purple prairie clover	2
Echinacea purpurea	Purple Coneflower	2
Elymus canadensis	Canada wild rye	16
Eryngium yuccifolium	Rattlesnake Master	2
Eupatorium perfoliatum	Boneset	2
Eutrochium maculatum	Joe-pye weed	2
Iris virginica	Blue Flag Iris	2
Juncus torreyi	Torrey's Rush	4
Liatris pycnostachya	Prairie Blazingstar	2
Monarda fistulosa	Bergamot	2
Panicum virgatum	Switch Grass	8
Penstemon digitalis	Foxglove Beard Tongue	2
Ratibida pinnata	Yellow cone flower	2
Rudbeckia hirta	Black-eyed Susan	6
Rudbeckia triloba	Brown-eyed Susan	2
Schizachyrium scoparium	Little Bluestem	8
Scirpus atrovirens	Green bullrush	4
Scirpus cyperinus	Wool Grass	4
Sorghastrum nutans	Indian grass	24
Symphotrichum novae-angliae	New England Aster	2
Tradescantia ohiensis	Spiderwort	2
Verbena hastata	Blue Vervain	2
Zizia aurea	Golden Alexander	2
Avena sativa	Common Oat	240
Lolium multiflorum	Annual Ryegrass	80

1. Provide seeding (special) mix for sunny conditions that includes the above-listed plants (or similar replacement plant) from a Midwest native plant nursery.
2. Use 1/4 pound for every 1,000 square feet (10 lbs/ac). Submit mix to the Engineer for approval prior to use.
3. Spread the seeding (special) mix within designated areas of the project according to project specifications and nursery recommendations.
4. Place erosion control fabric over the seeded areas in accordance with project specifications.

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DRAWN -	CJC	REVISED -	
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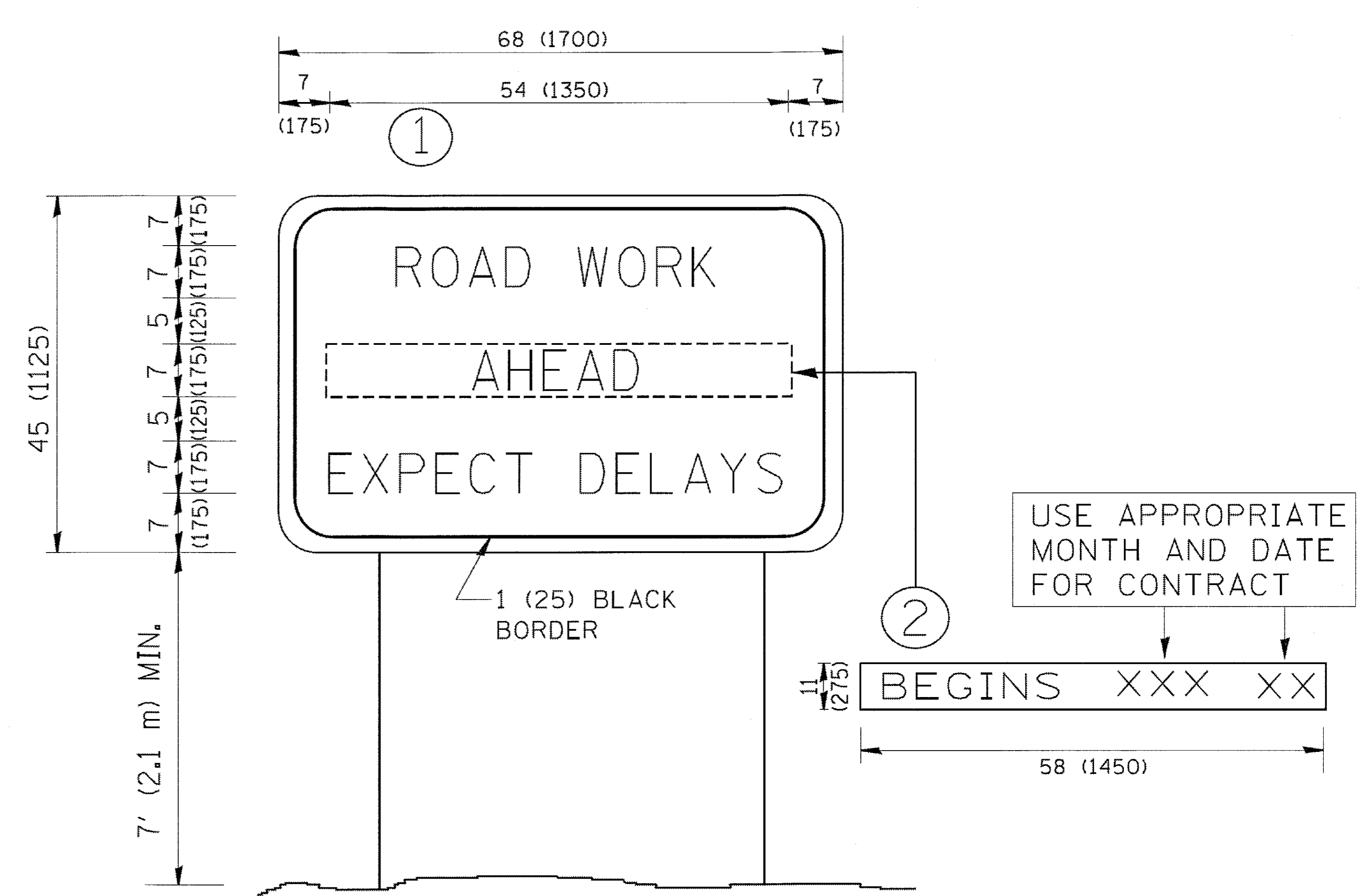
**McHENRY COUNTY CONSERVATION DISTRICT**  
**RIDGEFIELD TRACE EXTENSION**  
**BICYCLE PATH**

**EROSION AND SEDIMENT CONTROL DETAILS**  
**AND NATIVE PLANT SEED MIX**

SCALE: NONE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
119	15-C2000-04-BT	McHENRY	17	12
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61D89	

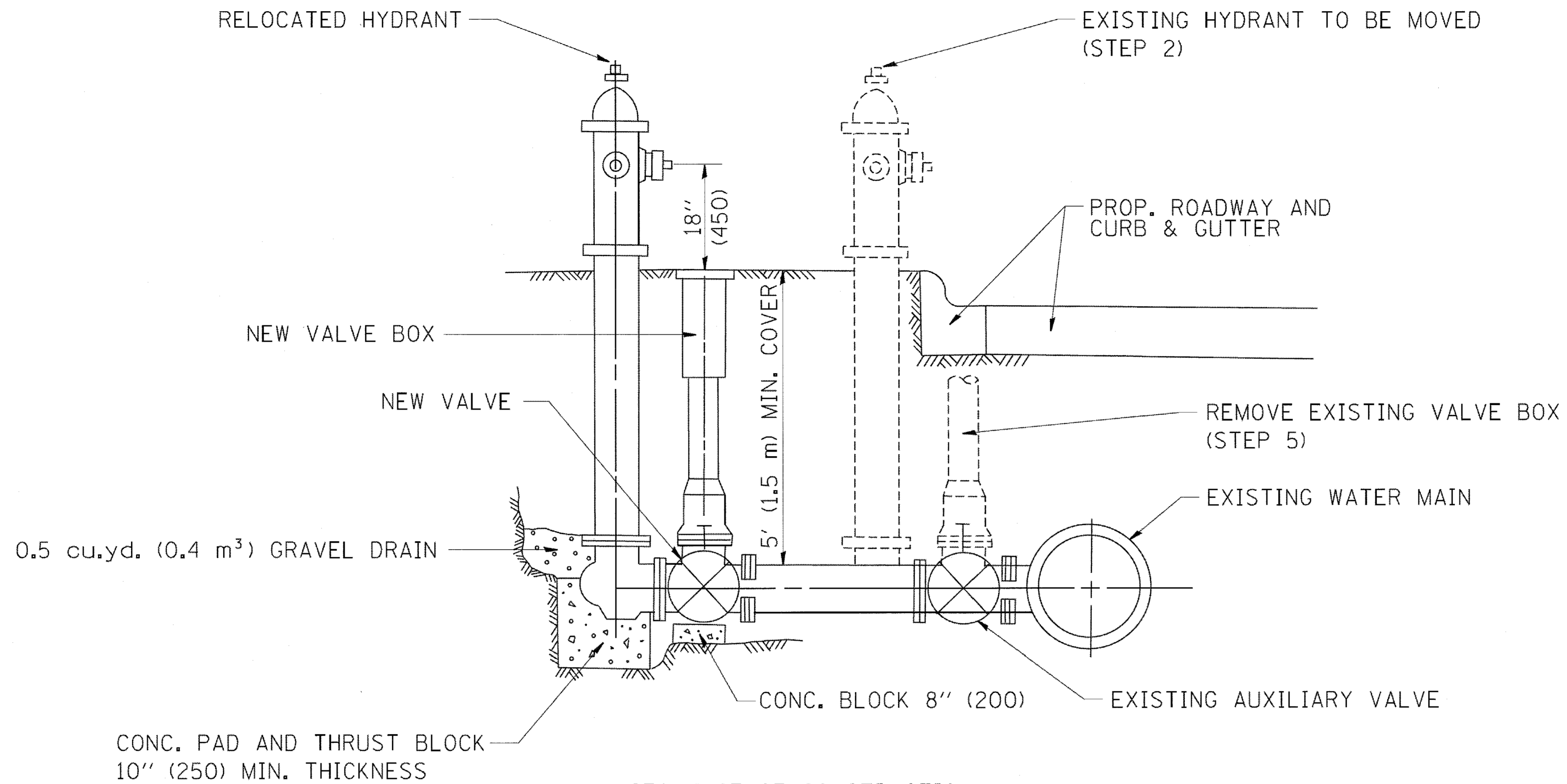
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- NOTES:**
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
  2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
  3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
  4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
  5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
  6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
  7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = geglionobt	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED -	REVISED - T. RAMMACHER 02-02-99			<b>TC-22</b>					
		DATE -	REVISED - C. JUCIUS 01-31-07			CONTRACT NO. 61089					
				SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.		TO STA.	
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



SEQUENCE OF CONSTRUCTION:

1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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 REVISED - R. SHAH 09-09-94  
 REVISED - R. SHAH 10-25-94  
 CHECKED -  
 DATE -  
 REVISED -  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 FIRE HYDRANT TO BE MOVED  
 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.  
 F.A.U. RTE. 119 SECTION 15-C2000-04-BT COUNTY MCHENRY TOTAL SHEETS 17 SHEET NO. 14  
 BD-36 CONTRACT NO. 61089  
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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DESIGNED -  
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 CHECKED -  
 DATE -

REVISED - R. SHAH 09-09-94  
 REVISED - R. SHAH 10-25-94  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FIRE HYDRANT TO BE MOVED  
 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD-36		CONTRACT NO. 61089		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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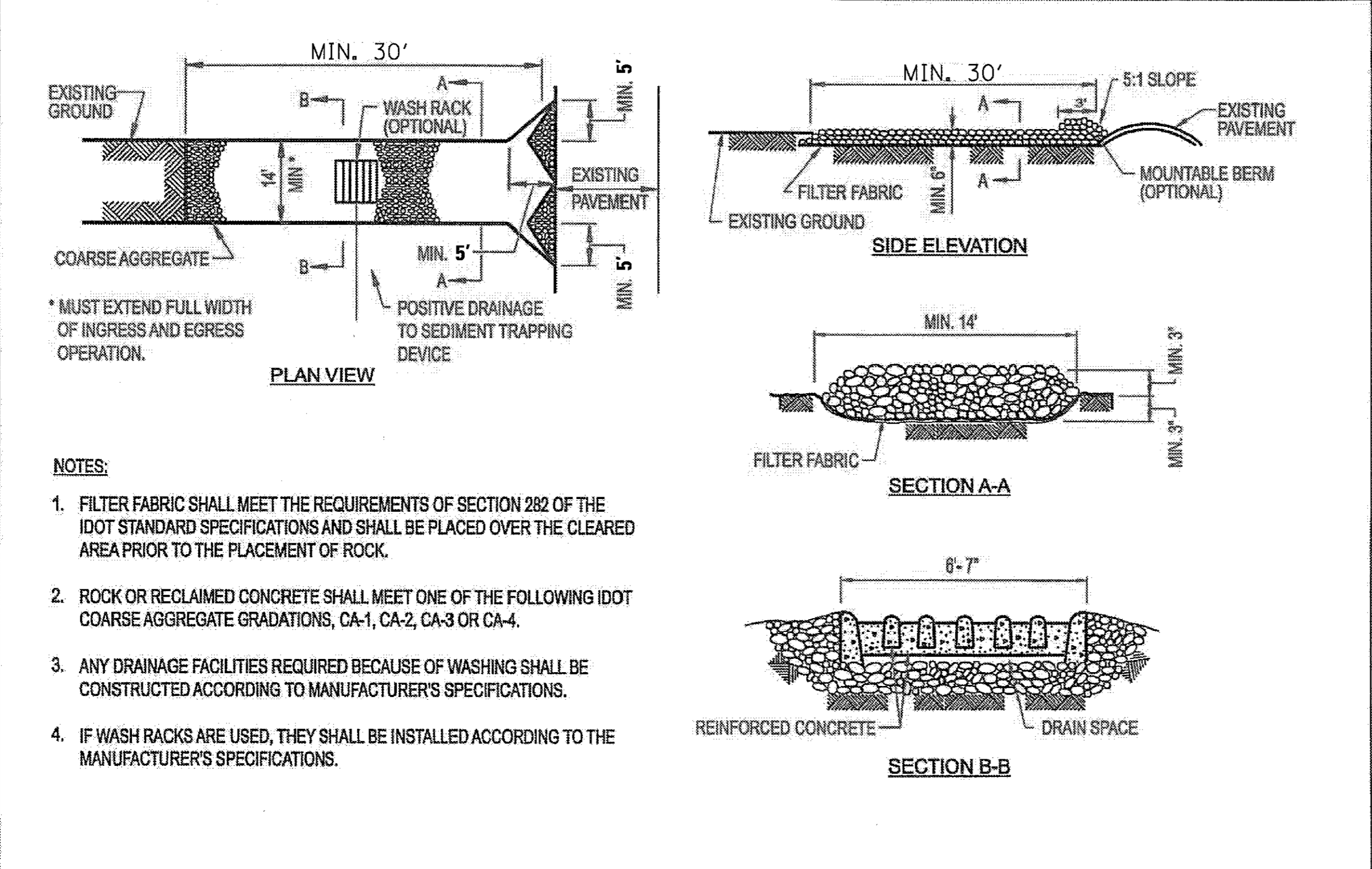
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DRAWN	- CJC	REVISED	-
CHECKED	- MDW	REVISED	-
DATE	- 5-29-17	FILE	- 150114-CL_DETAILS.sht

**McHENRY COUNTY CONSERVATION DISTRICT  
RIDGEFIELD TRACE EXTENSION  
BICYCLE PATH**

**CITY OF CRYSTAL LAKE'S DETAILS**

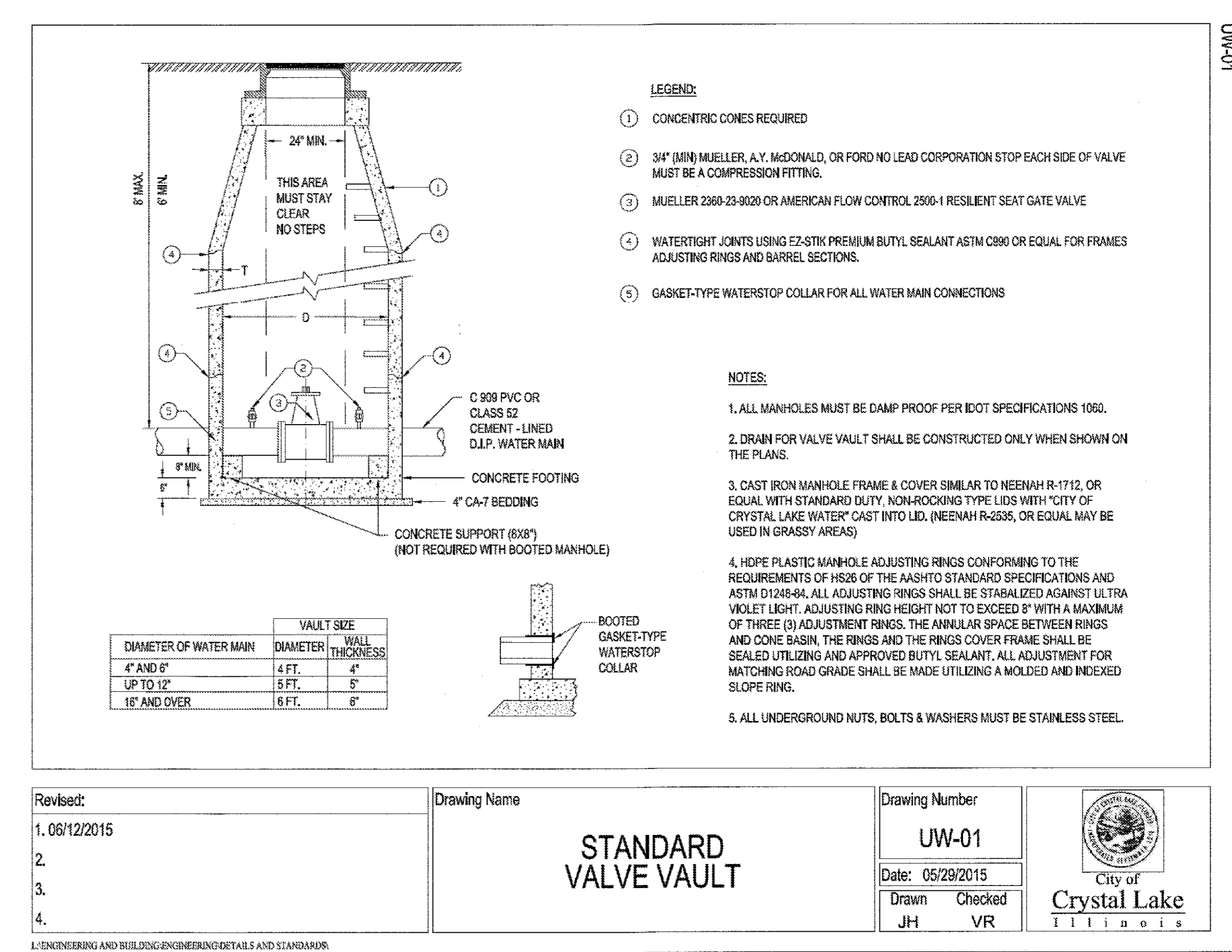
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119	15-C2000-04-BT	McHENRY	17	14A
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61D89	



- NOTES:**
1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF SECTION 282 OF THE IDOT STANDARD SPECIFICATIONS AND SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO THE PLACEMENT OF ROCK.
  2. ROCK OR RECLAIMED CONCRETE SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATIONS, CA-1, CA-2, CA-3 OR CA-4.
  3. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
  4. IF WASH RACKS ARE USED, THEY SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

THE FOLLOWING SHALL BE PROVIDED AT ALL LOCATIONS REQUIRING ACCESS TO OAK STREET RIGHT-OF-WAY. THIS WILL BE INCLUDED IN THE TEMPORARY ACCESS ROAD (SPECIAL) PAY ITEM.



Revised:

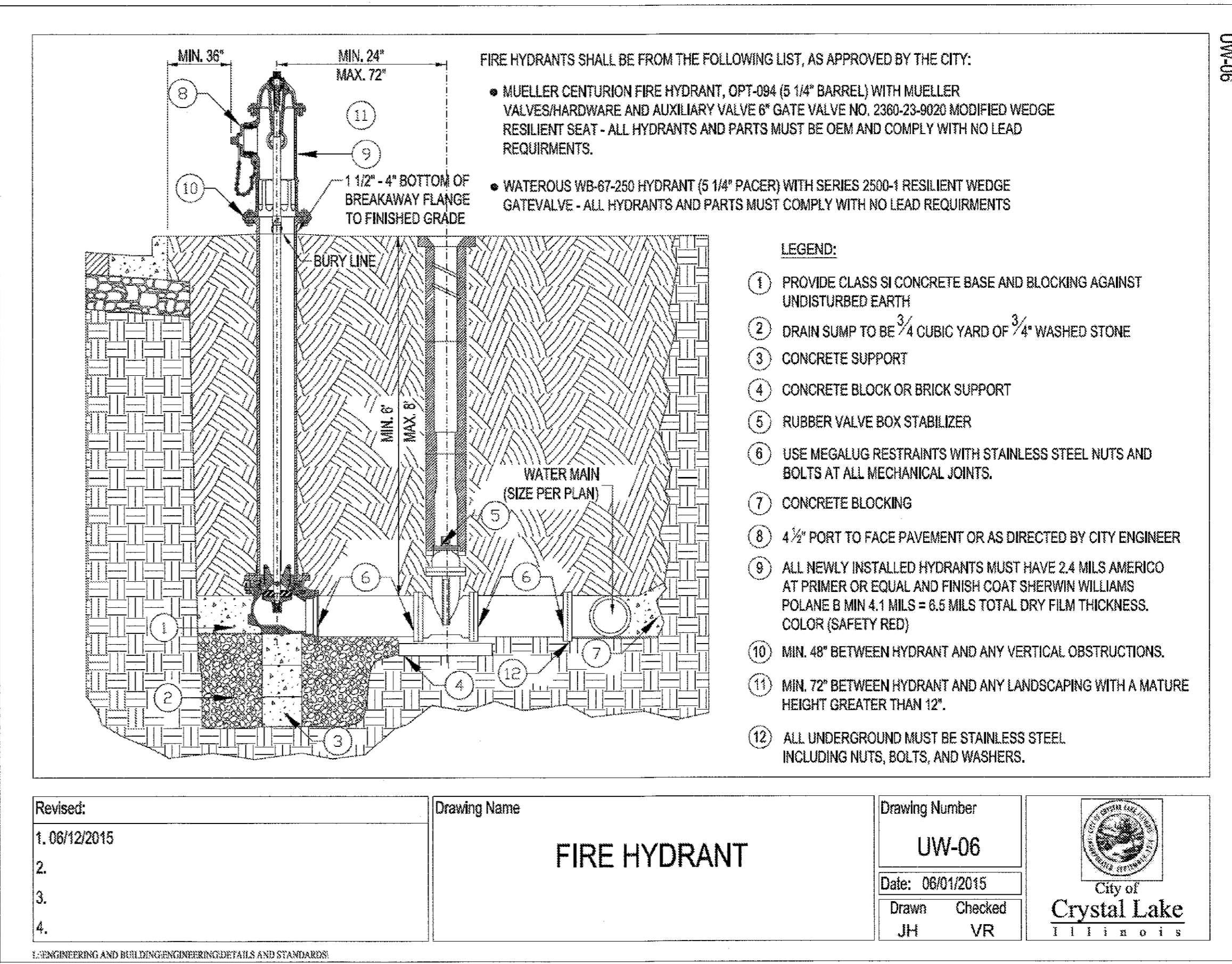
1. 06/12/2015
- 2.
- 3.
- 4.

Drawing Name: **STANDARD VALVE VAULT**

Drawing Number: **UW-01**

Date: 05/29/2015

Drawn: JH      Checked: VR



Revised:

1. 06/12/2015
- 2.
- 3.
- 4.

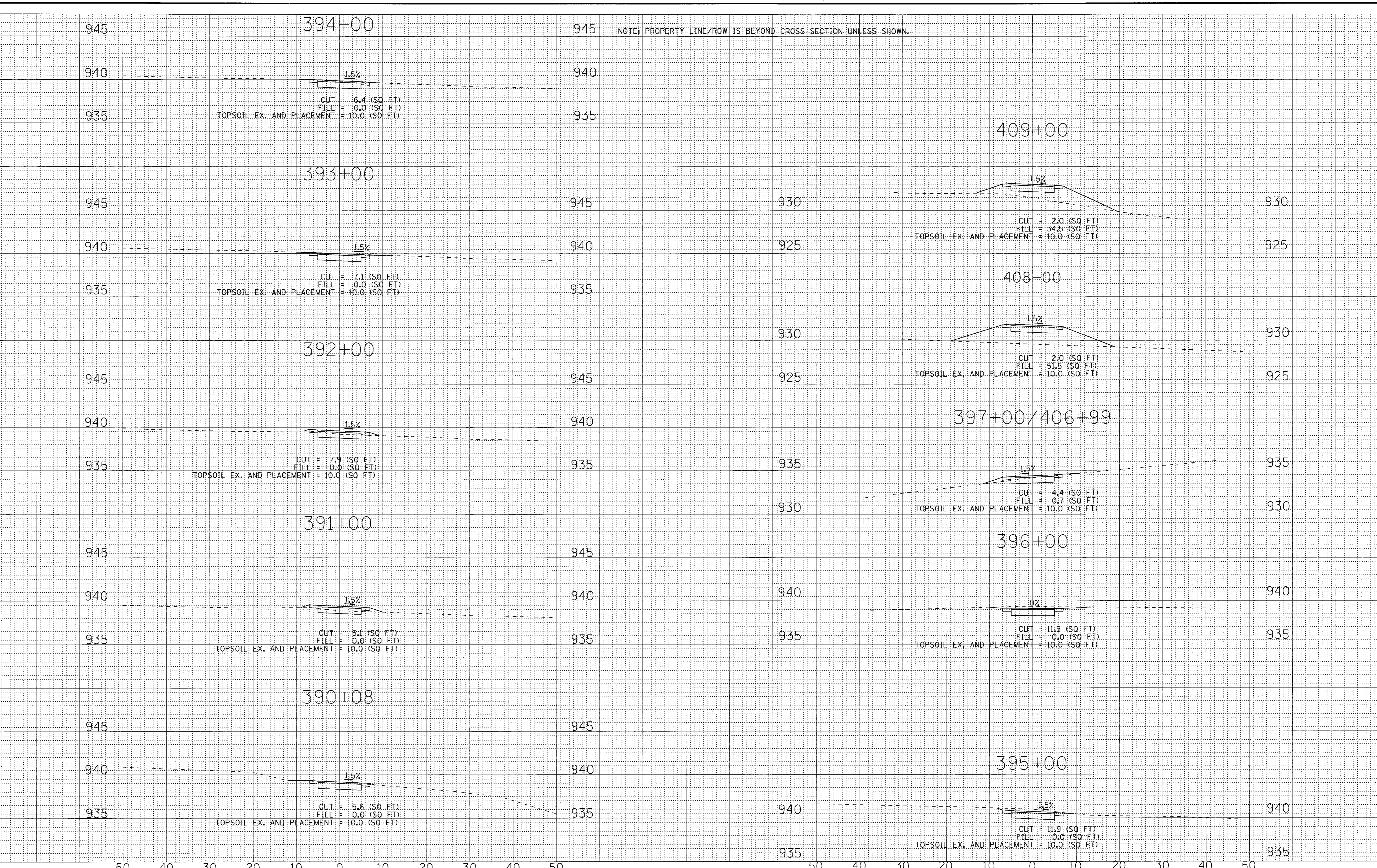
Drawing Name: **FIRE HYDRANT**

Drawing Number: **UW-06**

Date: 06/01/2015

Drawn: JH      Checked: VR

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NOTE: PROPERTY LINE/ROW IS BEYOND CROSS SECTION UNLESS SHOWN.



DESIGNED - AKP	REVISED -
DRAWN - MAC	REVISED -
CHECKED - MDW	REVISED -
DATE - 5-29-17	FILE - 150114-XS.sht

**McHENRY COUNTY CONSERVATION DISTRICT**  
**RIDGEFIELD TRACE EXTENSION**  
**BICYCLE PATH**

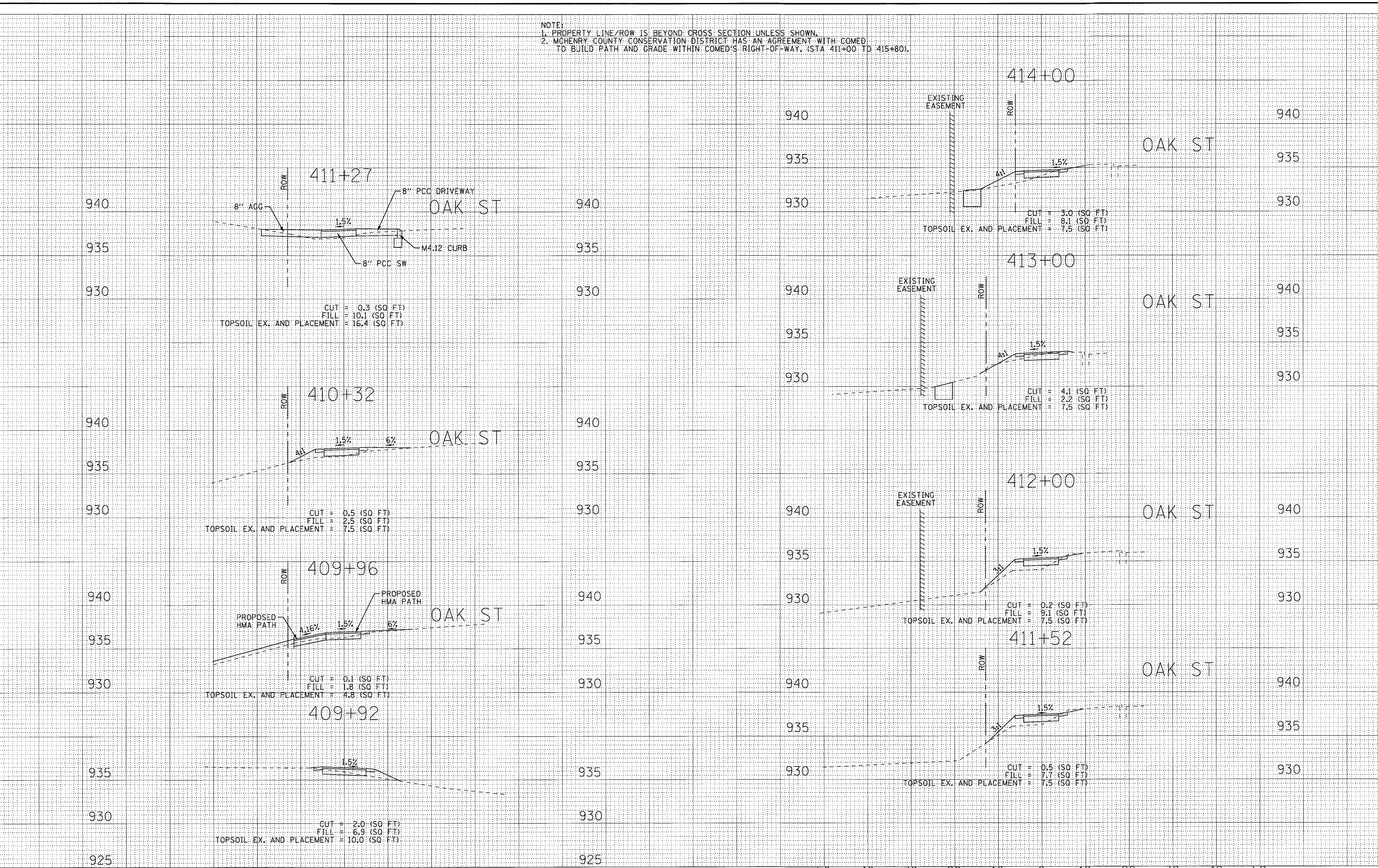
**CROSS SECTIONS**

SCALE: H: 1"=10' V: 1"=5'      STA. 391+00 TO STA. 396+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
119	15-C2000-04-BT	McHENRY	17	15
CONTRACT NO. 61D89				
FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				



NOTE:  
 1. PROPERTY LINE/ROW IS BEYOND CROSS SECTION UNLESS SHOWN.  
 2. MCHENRY COUNTY CONSERVATION DISTRICT HAS AN AGREEMENT WITH COMED TO BUILD PATH AND GRADE WITHIN COMED'S RIGHT-OF-WAY. (STA 411+00 TO 415+80).



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**BAXTER & WOODMAN**  
 Consulting Engineers

DESIGNED - AKP	REVISED -
DRAWN - MAC	REVISED -
CHECKED - MDW	REVISED -
DATE - 5-29-17	FILE - 150114-XS.sht

**McHENRY COUNTY CONSERVATION DISTRICT  
 RIDGEFIELD TRACE EXTENSION  
 BICYCLE PATH**

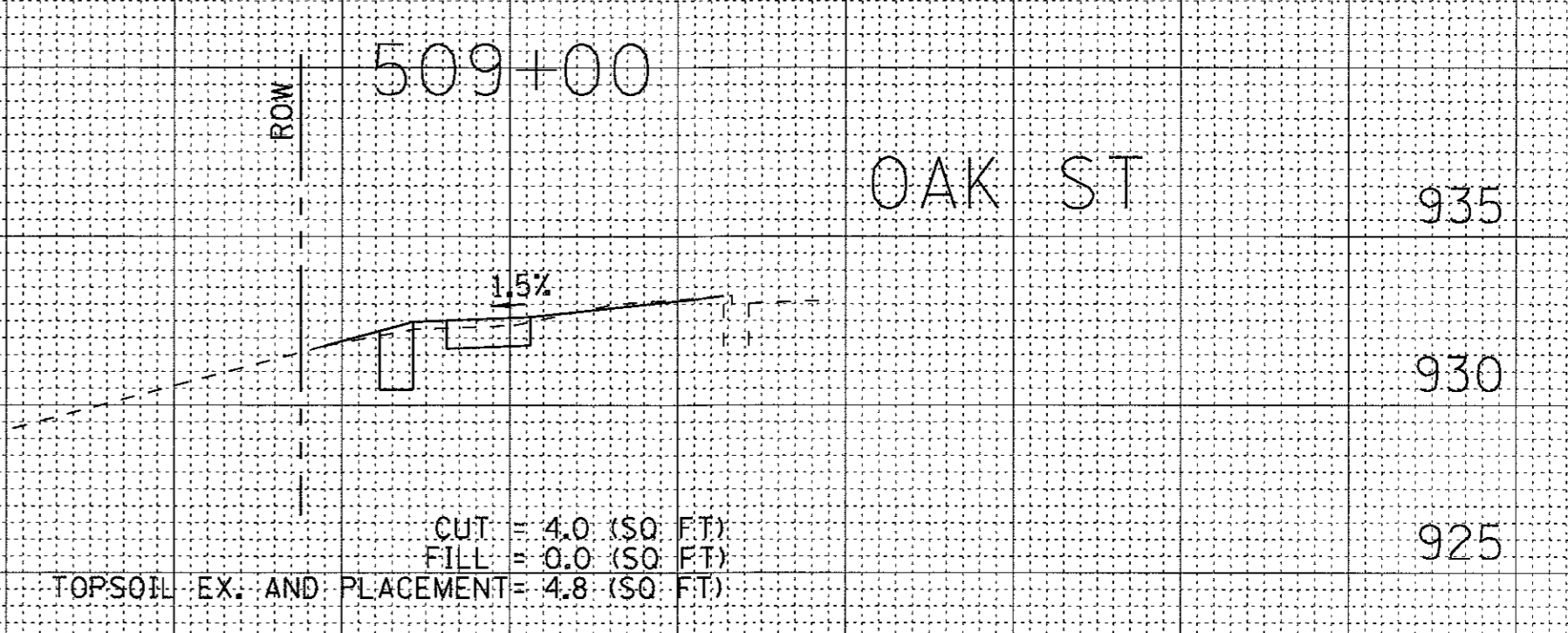
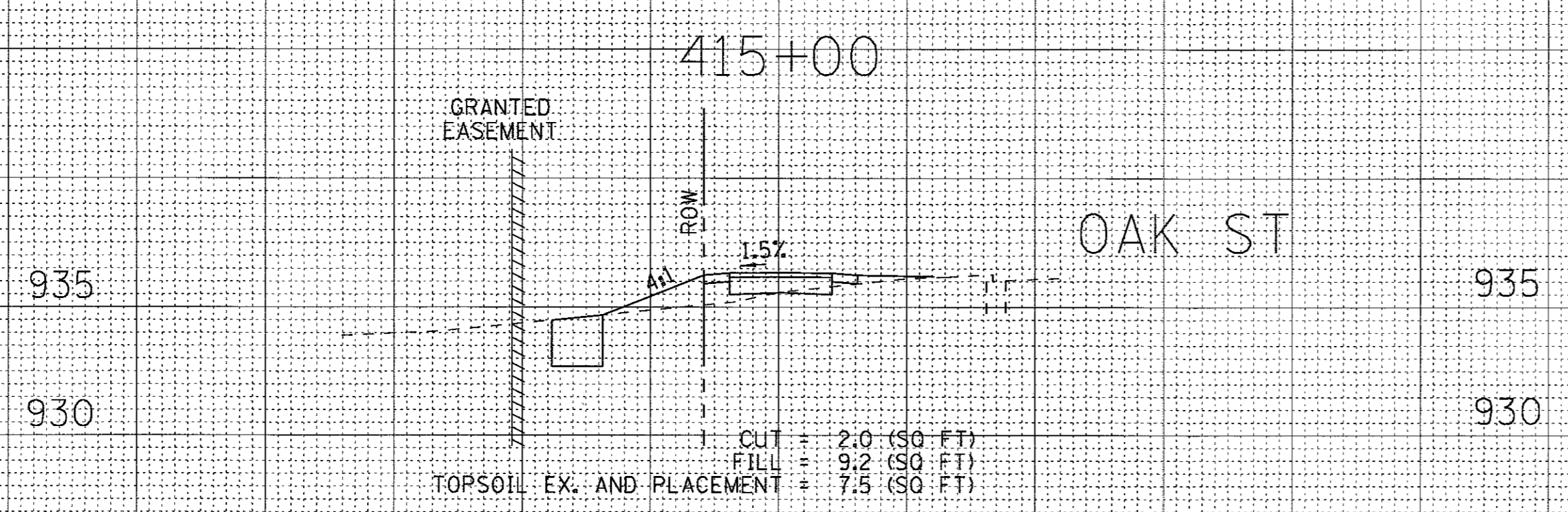
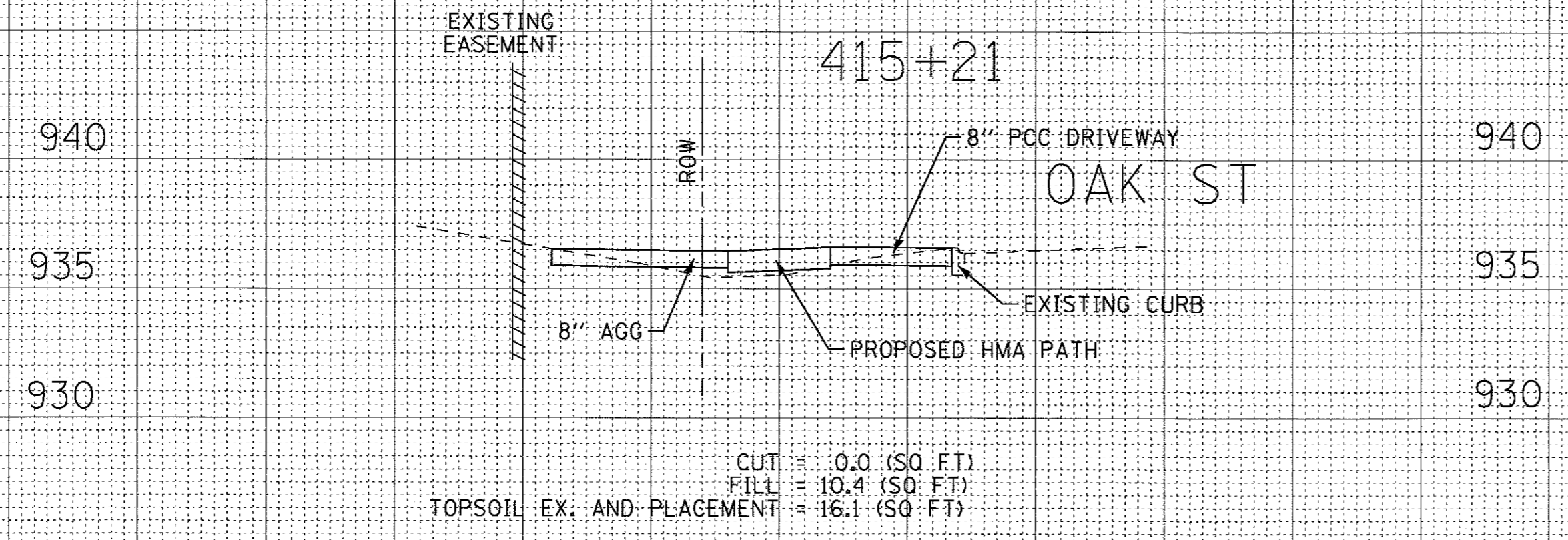
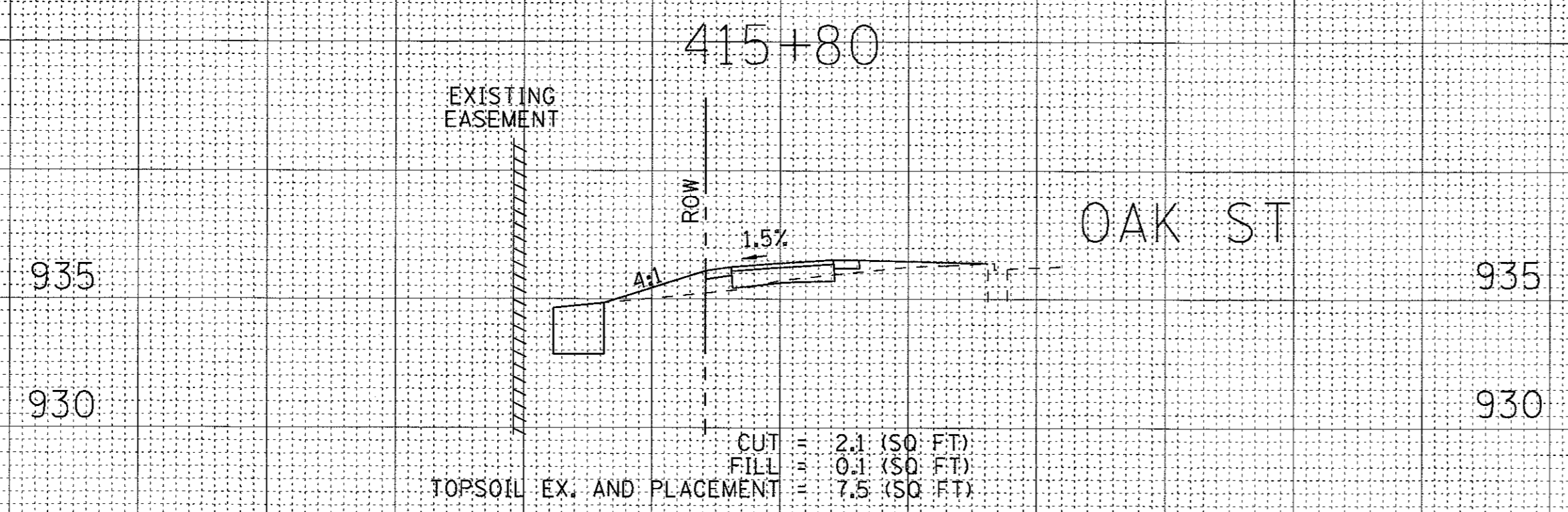
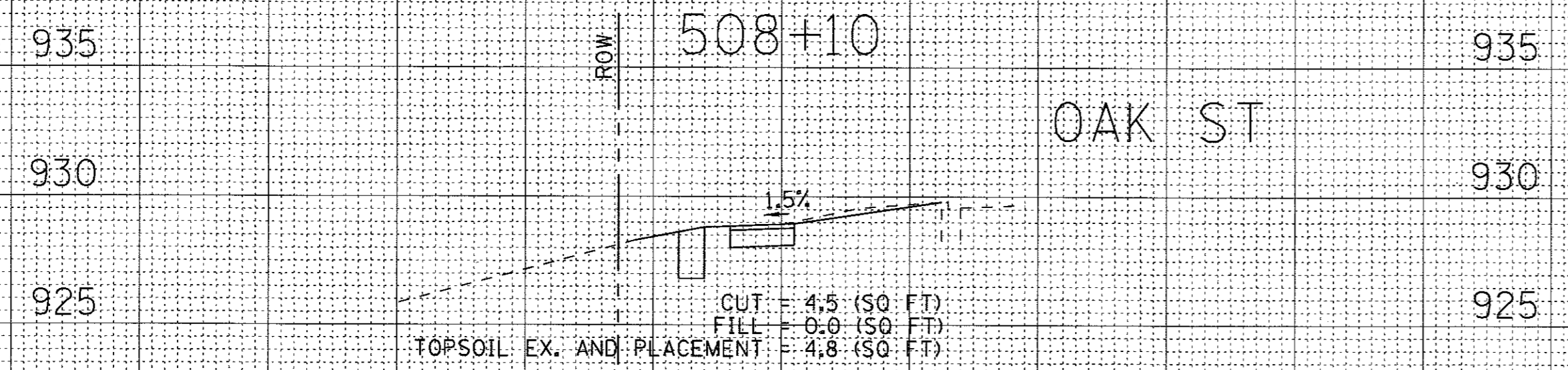
**CROSS SECTIONS**

SCALE: H: 1"=10' V: 1"=5'

STA. 409+92 TO STA. 415+80

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
119	15-C2000-04-BT	MCHENRY	17	16
				CONTRACT NO. 61D89
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTE: PROPERTY LINE/ROW IS BEYOND CROSS SECTION UNLESS SHOWN.



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CHECKED - MDW	REVISED -
DATE - 5-29-17	FILE - 150114-XS.sht

**McHENRY COUNTY CONSERVATION DISTRICT  
RIDGEFIELD TRACE EXTENSION  
BICYCLE PATH**

**CROSS SECTIONS**

SCALE: H: 1"=10' V: 1"=5'  
STA. 415+00 TO STA. 509+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
119	15-C2000-04-BT	McHENRY	17	17
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61DB9	