



REPORT TO: PLANNING and ZONING COMMISSION
FROM: MICHAEL S. GARRIGAN, AICP, CNU-A, Community Development Director
DATE: July 7, 2017
SUBJECT: REPORT TO PZB

CASE: Antioch Eyes Associates
17-09

REQUEST: Site Plan Review

LOCATION: 23 North Avenue

APPLICANT: Antioch Eye Associates

ZONING: B-3 (Village of Antioch)

Background

The applicant is proposing to construct a 4,000 square foot medical building on approximately 1.19 acres of property located on North Avenue. The subject site is currently a vacant lot and the applicant currently has an office in Downtown Antioch. The site is currently zoned B-3 and is identified as commercial property in the Village’s Comprehensive Plan.

Site Plan Review

Site Plan

The subject site is approximately 1.17 acres and the site incorporates one full access point on North Avenue. In addition, the site contains two parking lots, one in front of the proposed building and an additional parking lot along the eastern elevation. In accordance with Village ordinance, a total of sixteen (16) parking spaces are required including one (1) handicapped space. The subject site contains eighteen (18) parking spaces. Additionally, the parking stall dimensions and drive aisle widths comply with the Village’s Site Plan Review Ordinance.

The applicant’s proposed Site Plan appears to provide appropriate access for the Antioch Fire Protection District to service the site due any emergency on the site based on the proposed configuration of the parking lot dimensions.

Stormwater

The applicant appears to be proposing a dry detention area located west of the subject structure based on their engineering plans. It appears that the parking lot drainage would flow to the west of the site and any stormwater would be retained on the subject site. The Village Engineer will be reviewing the final engineering related to this Site Plan and approval of the engineering will be completed prior to any issuance of a building permit related to this site.

Recommendation

Based on the foregoing analysis, it appears that the applicant's proposed Site Plan Review complies with the Village's Site Plan Review Ordinance. The applicant's proposed building is consistent with the quality of new commercial construction that the Village is now seeking and their landscaping plan will incorporate extensive landscaping which will beautify the site over time as the landscaping matures.

In accordance with the above analysis, Staff would make the following recommendation:

We move that the PZB make a favorable recommendation to the Village Board of Antioch Eye Associates Site Plan Review subject to the following stipulations:

- 1. Compliance with the requirements of the Village Engineer.***
- 2. Compliance with the requirements of the Plainfield Fire Protection District.***
- 3. Incorporating roofing materials that comply with the Village's Site Plan Review Ordinance***

c) The proposed use will not change the predominant character of the surrounding area.

As highlighted above, there is nothing in this proposed use that will change the predominant character of the area as single-family. The applicant is proposing to incorporate six (6) parking spaces on the subject site. One small area adjacent to the existing garage will be expanded to accommodate a recreational vehicle or a large vehicle. Other than these small changes to the parking area in the rear, there will be no significant changes to the existing site. The Village's Code requires 1 space for every guest bedroom. The applicant's 4 bedrooms thus would require 4 parking spaces.

The applicant's proposed use will be no more intense than the existing antique stores which are located to the south and north of the subject site. This use is consistent with the Village's Form Based Code and fits into the long term vision of the Main Street Transitional District. Staff continues to encourage a mixture of single-family homes, offices, and boutiques along Main Street. Main Street as envisioned will encourage a healthy mixture of small businesses and residential, while preserving the historic integrity of the physical fabric along the corridor.

d) The ability to mitigate adverse and understandable impact to the surrounding area, including, but not limited to individual impacts, air emissions, noise, vibrations, glare, heat, odors, water pollution, electromagnetic interference and other nuisance effects.

This proposed use will have no impact on additional noise, vibrations, emissions, glare, heat, or any other factors as outlined in the above finding of fact.

e. Amount of traffic generated and capacity and design of roadways and available parking facilities to handle anticipated traffic.

This proposed Bed & Breakfast will have no direct impact on the amount of traffic in the area.

f. The effect on infrastructure including water, wastewater, stormwater, utilities, and streets;

The proposed Bed & Breakfast will have no impact on stormwater, or the Village's capacity to handle any additional drainage. Only a small area of parking is being expanded on the subject site and the existing impervious areas of the site should be able to handle any additional drainage.

g. The incorporation and integration of architectural and landscape features to mitigate impacts from the proposed use.

The proposed use of the site as a Bed & Breakfast integrates very well into the residential character of this area along Main Street. The proposed use is a low impact use and the architecture of this historic home is not changing. The home blends in currently with the other historic homes in Downtown Antioch and nothing in the applicant's proposal will change this fact.

More importantly, this new use brings the opportunity for people to stay in Downtown Antioch. As the Downtown continues its long term revitalization with new businesses and destinations, this Bed & Breakfast provides another economic development tool to make Downtown Antioch unique and a regional destination.

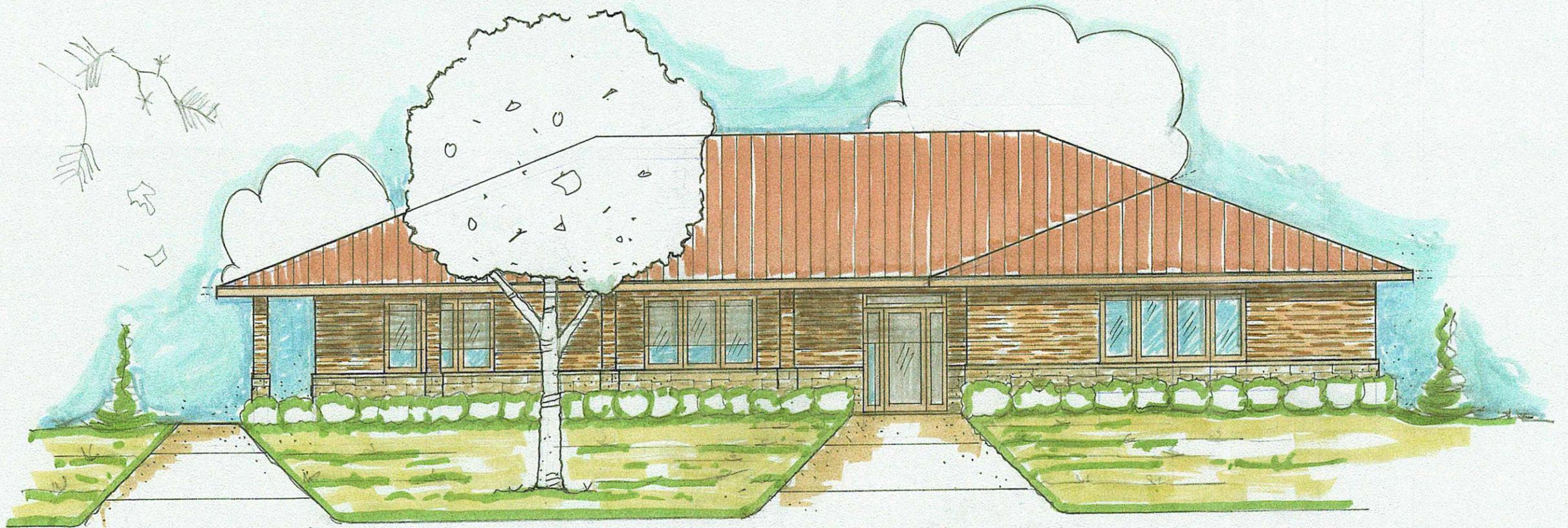
RECOMMENDATION

The proposed Bed & Breakfast as outlined above meets the required finding of facts that are required for a Special Use. The proposed use will have no negative impact on the adjacent properties and will not alter the essential single-family character of the area. As proposed, this use will be a low impact on the neighborhood and will incorporate less traffic than the existing antique stores located to the south and north of the subject site.

Based on the foregoing analysis, Staff makes the following recommendation:

We move that the PZB recommend approval of the applicant's proposed Special Use for 1034 Main Street as a Bed & Breakfast subject to the following stipulations:

- 1. Compliance with the requirements of the Antioch Fire Protection District.***
- 2. Compliance with the requirements of the Village Engineer.***



FRONT (SOUTH ELEVATION)

RECEIVED
JUN 19 2017
VILLAGE OF ANTIPOCH
PLANNING, ZONING AND
PUBLIC DEPART

FINAL ENGINEERING PLANS ANTIOCH EYE ASSOCIATION ANTIOCH, ILLINOIS

RECEIVED

JUN 19 2017

VILLAGE OF ANTIOCH
PLANNING, ZONING AND
BUILDING DEPARTMENT

REVISIONS	DATE	DESCRIPTION

JON M. TACK P.E.
CONSULTING ENGINEER
597 MIDNIGHT PASS
ANTIOCH, IL. 60002
(847) 838-1179



COVER
SHEET

ANTIOCH EYE ASSOCIATES
23 NORTH AVENUE
ANTIOCH, ILLINOIS 60002

SHEET
1 OF 8

DATE
4/1/17

INDEX OF SHEETS

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- 2 - EXISTING CONDITIONS
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- 4 - GRADING PLAN - SWPPP
- 5 - SANITARY SEWER & PROFILE
- 6 - DETAILS
- 7 - NOTES
- 8 - SWPPP

- NOTES:
- A. JON M. TACK ENGINEERING, INC. HAS NOT MADE AN EVALUATION OF THE STRUCTURAL AND HYDROLOGIC CHARACTERISTICS OF THE EXISTING SOIL CONDITIONS.
 - B. WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.
 - C. CONTRACTOR RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT (800) 892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE.
 - D. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO COMMENCING WORK AND WILL BE RESPONSIBLE FOR ANY DAMAGE THERETO. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN EXISTING "PLAN" ELEVATIONS AND EXISTING "SITE" ELEVATIONS PRIOR TO COMMENCING ANY WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
 - E. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE "SITE SPECIFIC SPECIFICATIONS".
 - F. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO CONTRACT COMPLETION AND THE FINAL CONNECTION OF SERVICES.
 - G. ALL ROADWAY AND PARKING LOT IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST EDITION.
 - H. ALL UNDERGROUND IMPROVEMENTS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST EDITION. IN THE EVENT OF CONFLICTING GUIDELINES, THE MORE RESTRICTIVE SHALL GOVERN.



LOCATION MAP

LOT INFORMATION
TOTAL LOT AREA = 1.19AC
BUILDING AREA = 4,026FT²
PARKING LOT = 11,232FT²
WALK AREA = 1,067FT²
DISTURBED AREA= 1.19AC

TOTAL IMPERVIOUS= 16,325FT²
% IMPERVIOUS = 31.5%

STANDARD SYMBOLS

EXISTING	PROPOSED

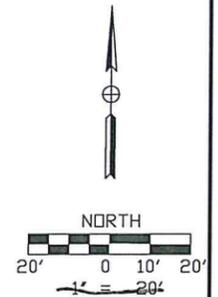
811
Know what's below.
Call before you dig.
CALL J.U.L.I.E. @ 811 OR
(800)892-0123 48 HOURS
BEFORE YOU DIG (EXCLUDING SAT,
SUN, & HOLIDAYS)

PROJECT BENCHMARK
SITE BENCHMARK IS VALVE VAULT AS SHOWN ON THE EXISTING CONDITIONS SHEET, ELEVATION = 815.55 NAVD 83

LICENSED PROFESSIONAL ENGINEER
JON M. TACK
062-049392
STATE OF ILLINOIS
Jon M. Tack P.E.
Lic. No. 062-049392 Exp 11/30/2017

LIMITATION OF WARRANTY OF ENGINEER'S WORK PRODUCT
THE ENGINEER AND HIS CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE WORK PRODUCT HEREIN BEYOND A REASONABLE DILIGENCE. IF ANY MISTAKES, OMISSIONS, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE WORK PRODUCT, THE ENGINEER SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THE DIFFERENCES. FAILURE TO PROMPTLY NOTIFY THE ENGINEER OF SUCH CONDITIONS SHALL ABSOLVE THE ENGINEER FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH FAILURE. ACTIONS TAKEN WITHOUT KNOWLEDGE AND CONSENT OF THE ENGINEER OR IN CONTRADICTION TO THE ENGINEER'S WORK PRODUCT OR RECOMMENDATIONS SHALL BECOME THE RESPONSIBILITY NOT OF THE ENGINEER, BUT THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION.

GENERAL INDOCMIFICATION STATEMENT
THE CONTRACTOR AGREES TO INDEMNIFY AND HOLD THE OWNER, ENGINEER, AND CERTIFY/ENDORSEER HARMLESS FROM ALL LIABILITY AND EXPENSES INCLUDING THE COST OF DEFENDING ACTIONS ARISING OUT OF THE PERFORMANCE OF THE WORK UNDERTAKEN, OR OUT OF ANY CLAIM BY ANY SUBCONTRACTOR OR ANYONE WHO FURNISHES MATERIALS, EQUIPMENT, OR LABOR IN THE WORK OF THIS PROJECT.



REVISIONS	DATE	DESCRIPTION

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597 MIDNIGHT PASS
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(847) 838-1179

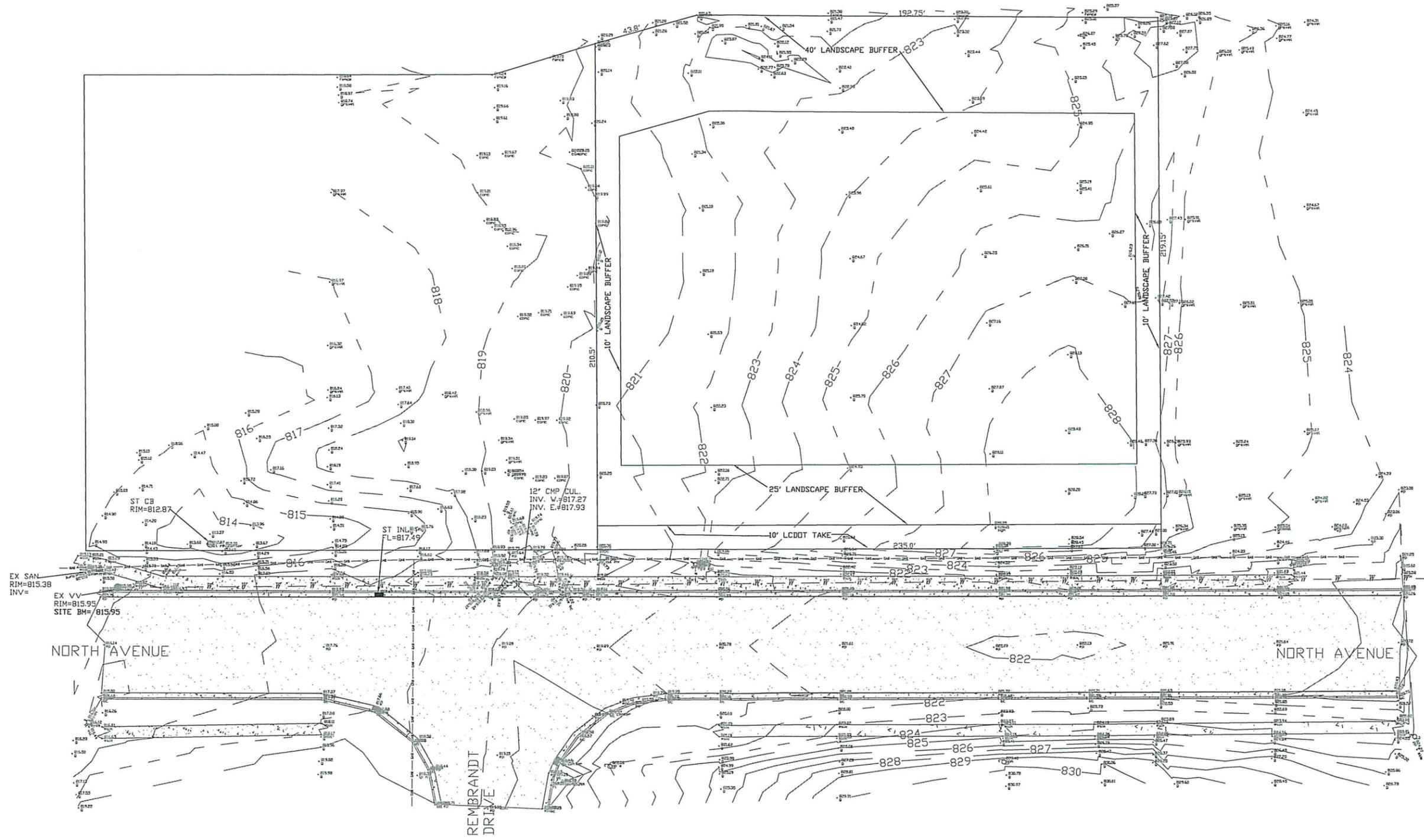


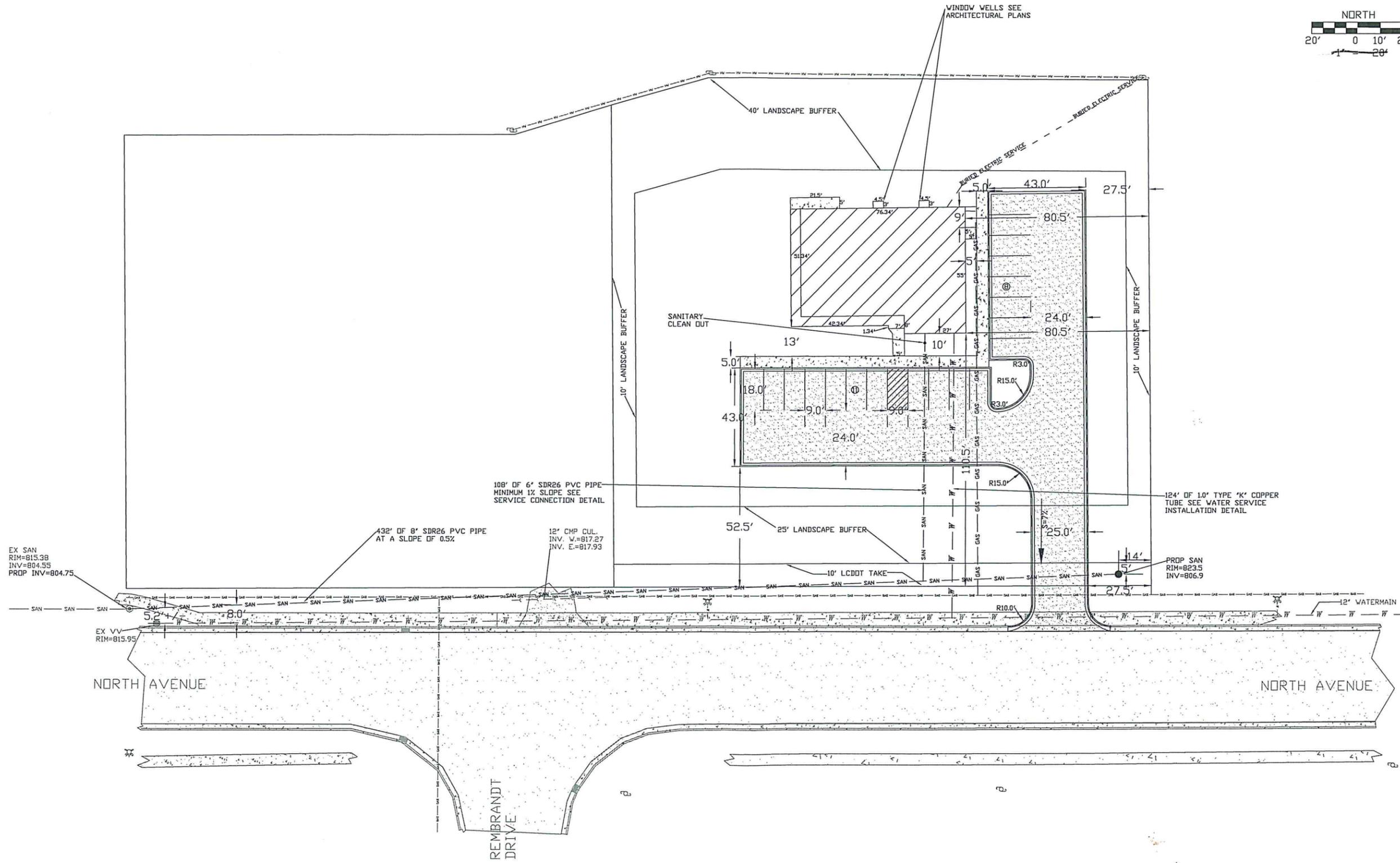
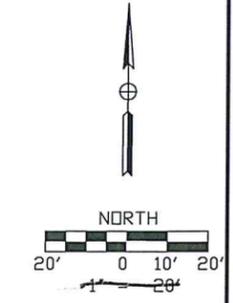
EXISTING
CONDITIONS

ANTIOCH EYE ASSOCIATES
23 NORTH AVENUE
ANTIOCH, ILLINOIS 60002

SHEET
2 OF 8

DATE
4/1/17





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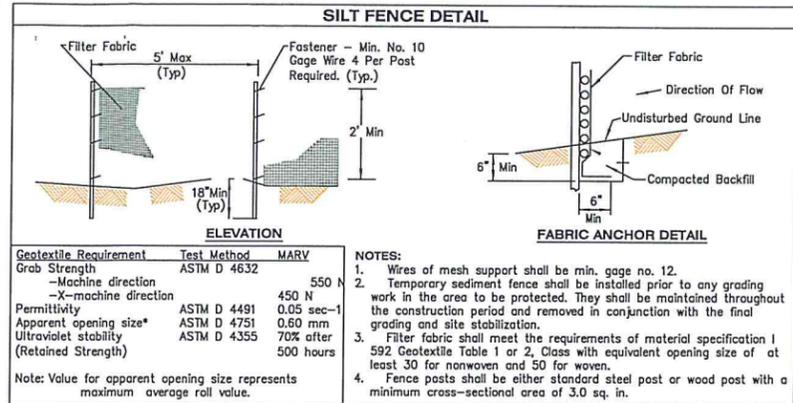


GEDMETRICS
&
UTILITIES

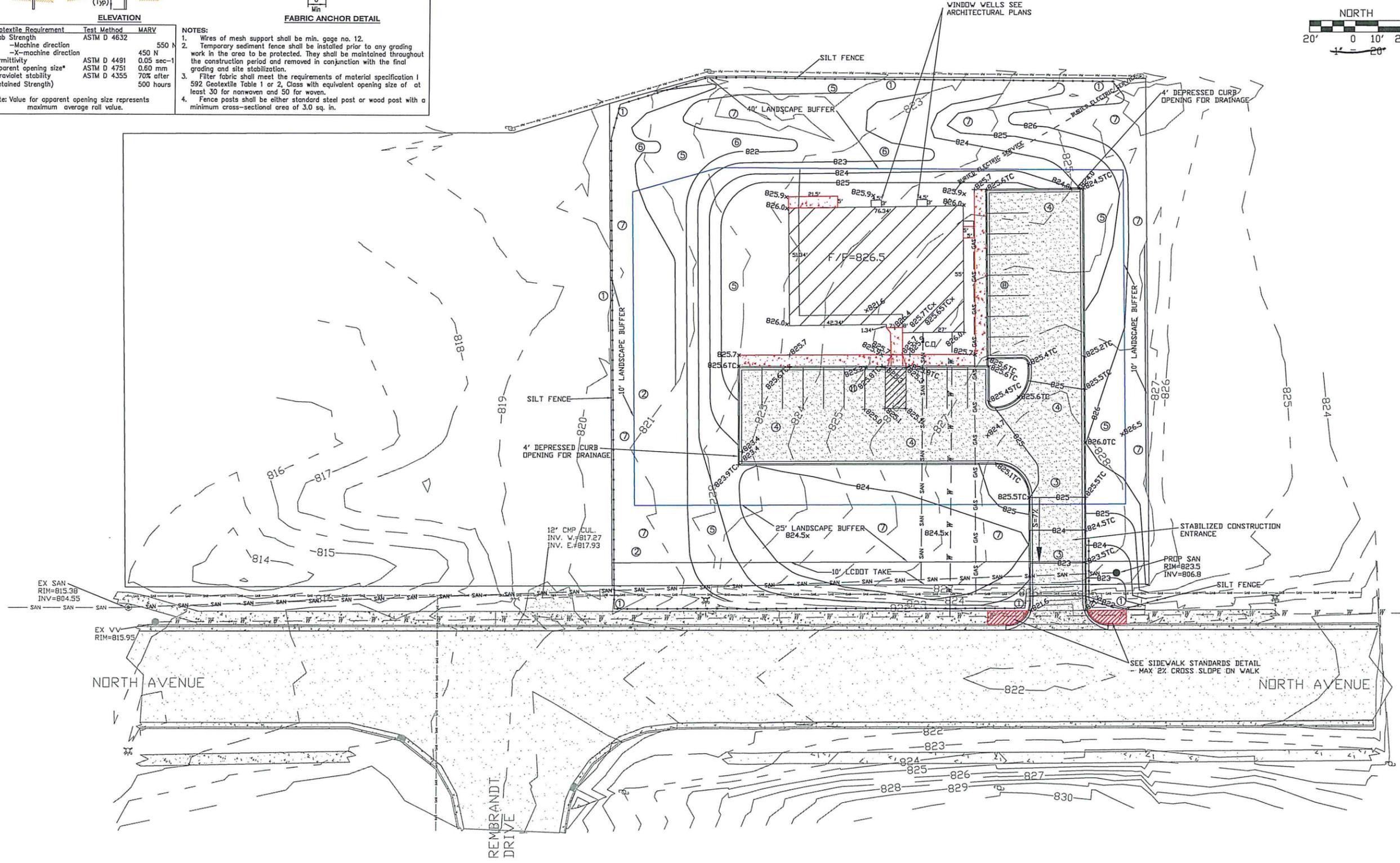
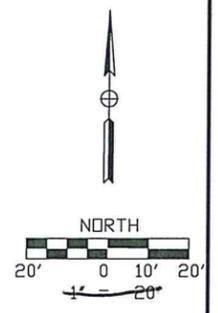
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23 NORTH AVENUE
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SHEET
3 OF 8

DATE
4/1/17



- NOTES**
1. SILT FENCE.
 2. VEGETATIVE FILTER STRIP - MINIMUM 25'.
 3. STABILIZED CONSTRUCTION ENTRANCE.
 4. NEW PARKING LOT.
 5. STANDARD LAWN MIX.
 6. EROSION CONTROL BLANKET.
 7. MULCH AREA SEE LANDSCAPE PLAN.



REVISIONS

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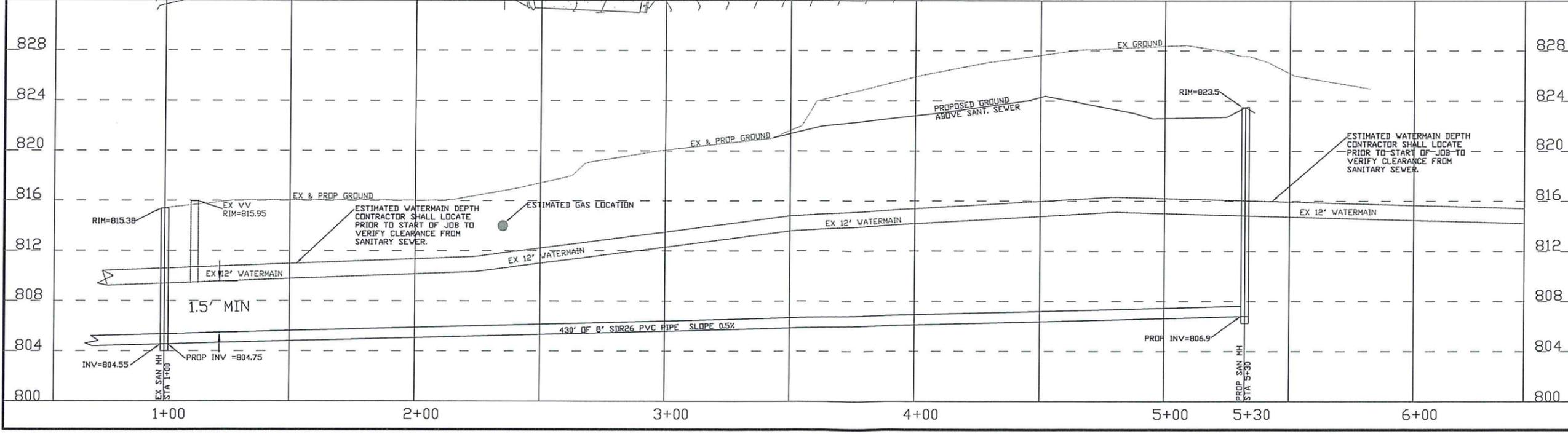
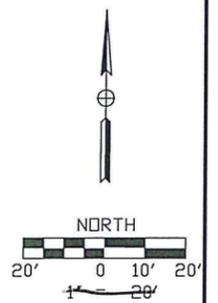
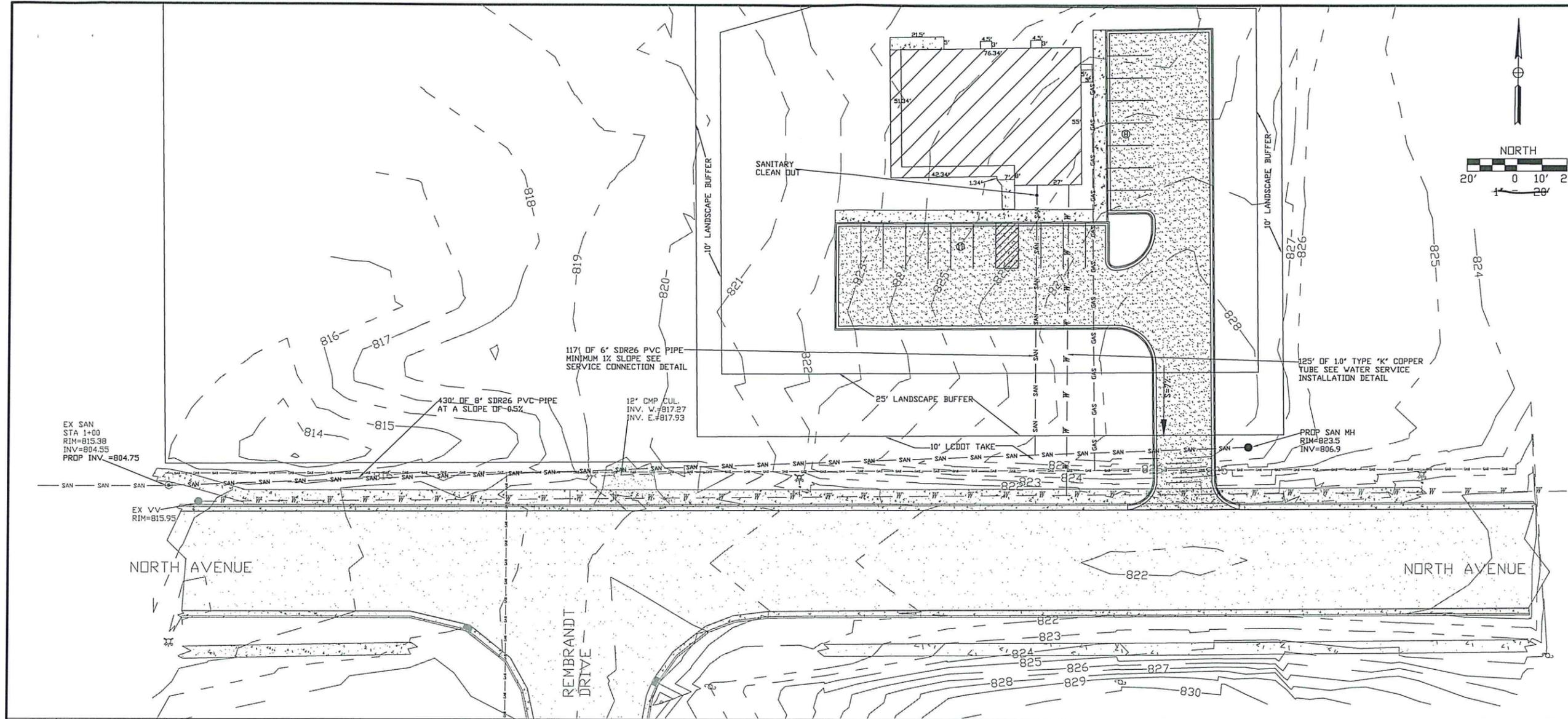


GRADING PLAN & SWPPP

ANTIOCH EYE ASSOCIATES
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SHEET 4 OF 8

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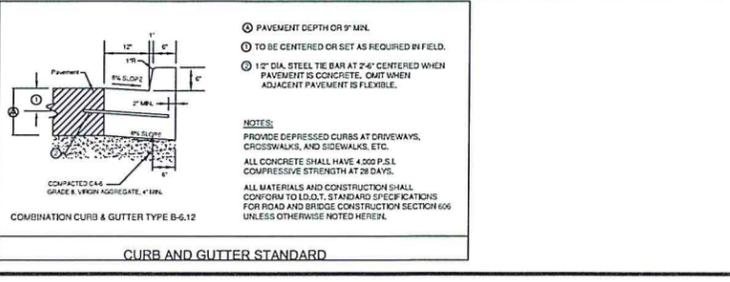
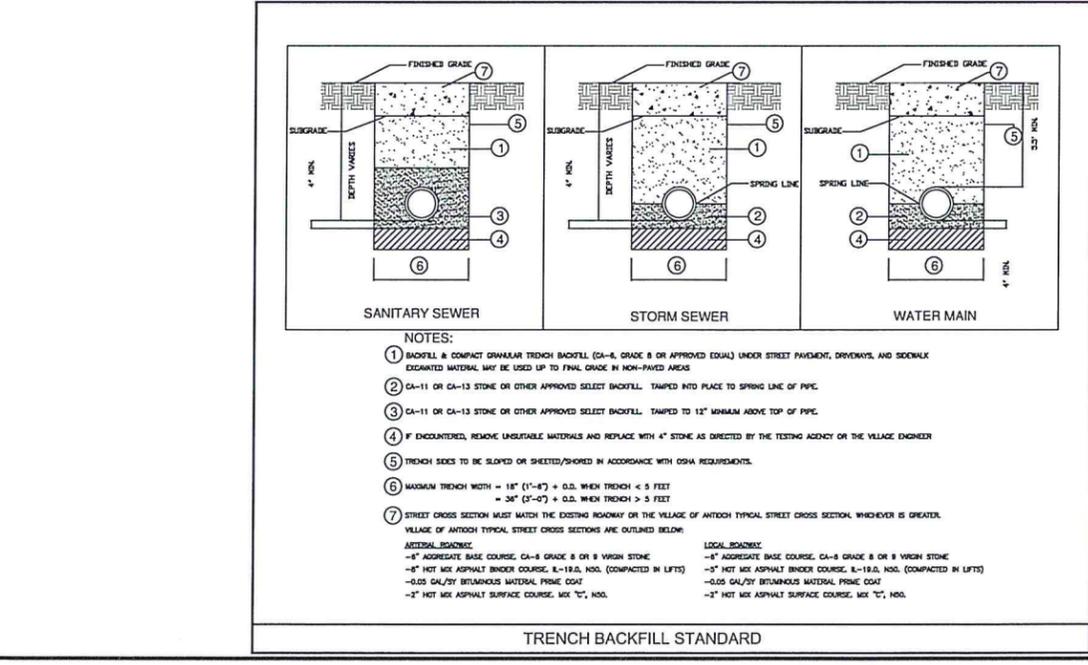
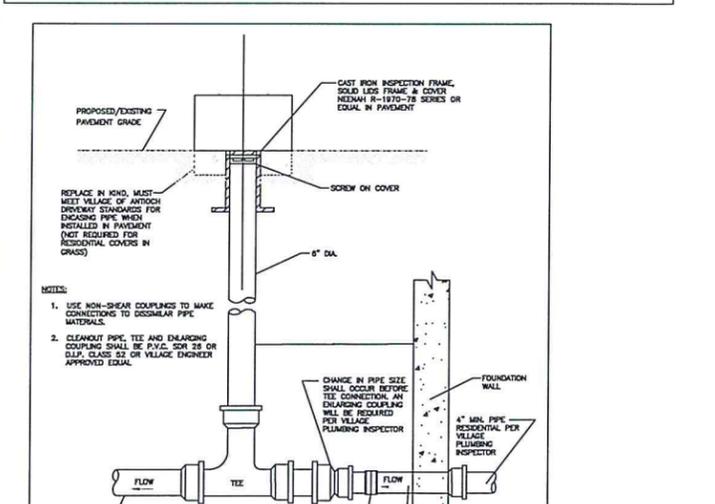
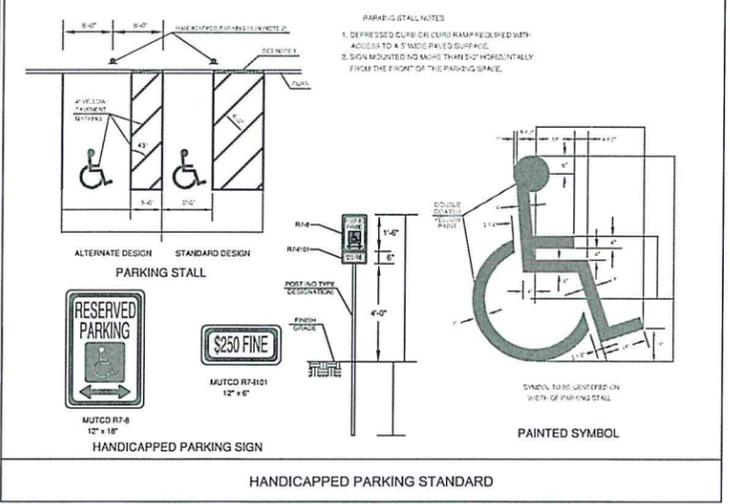
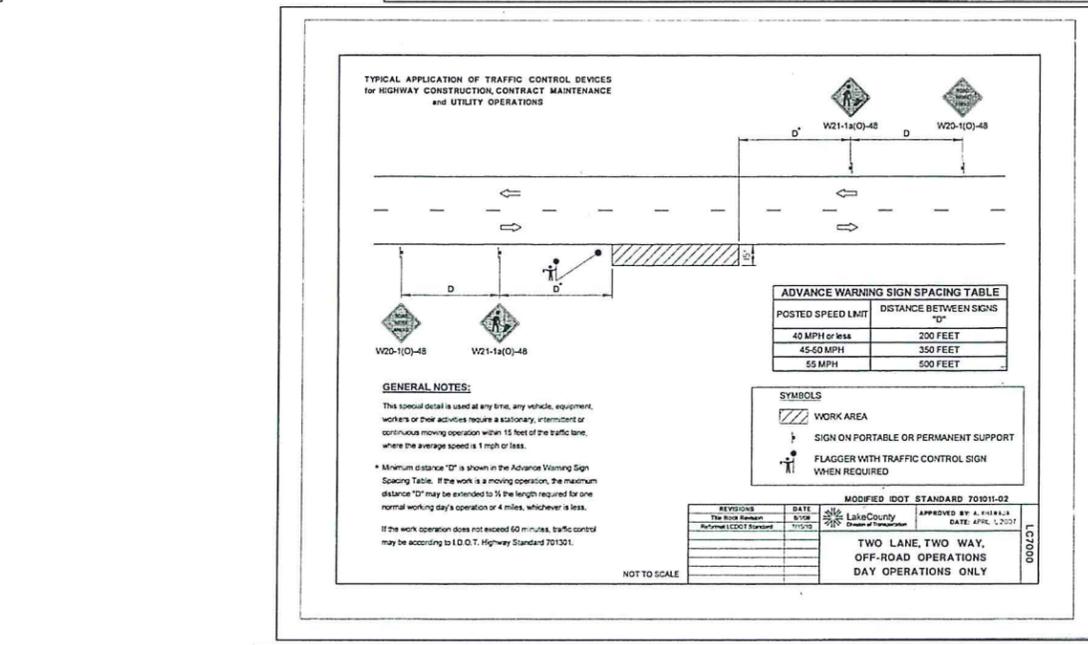
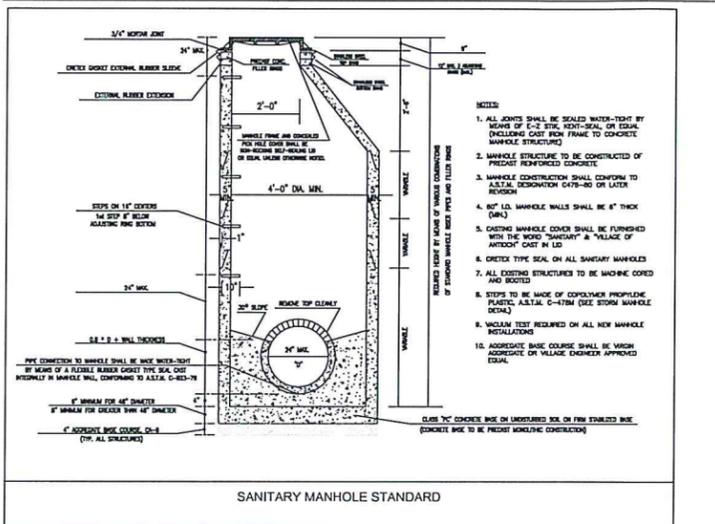
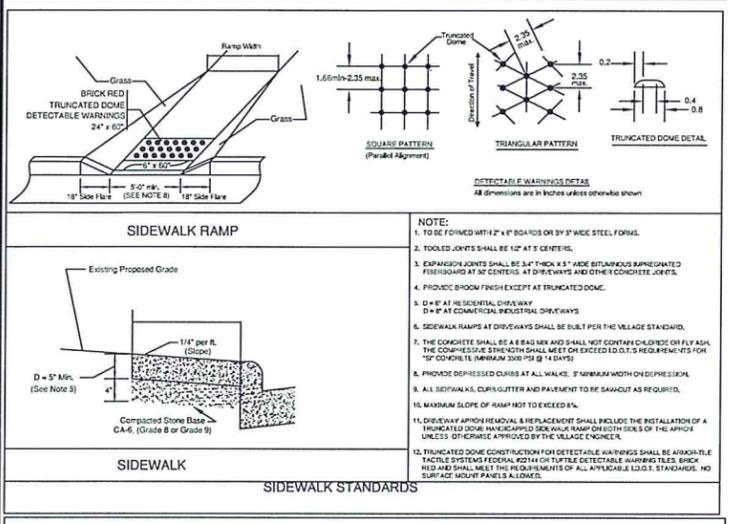
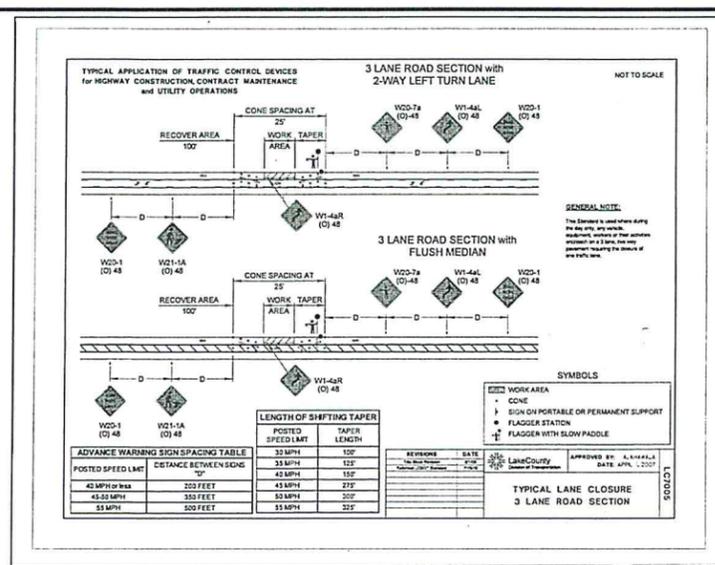
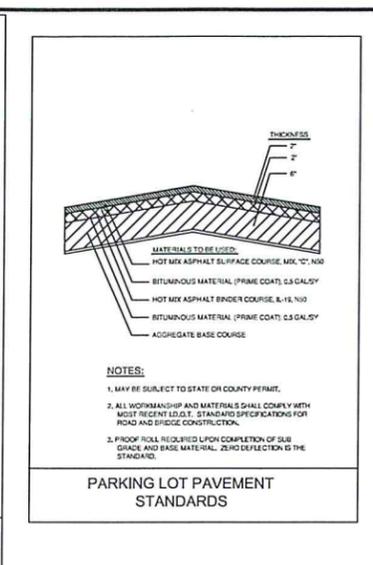
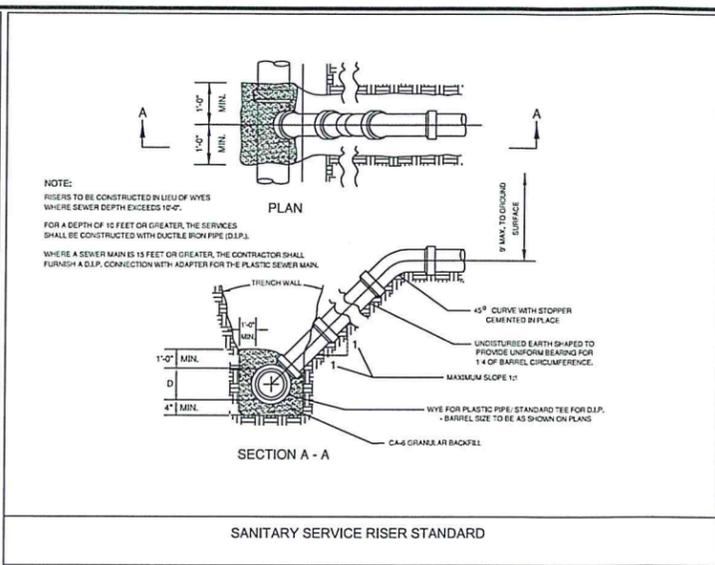
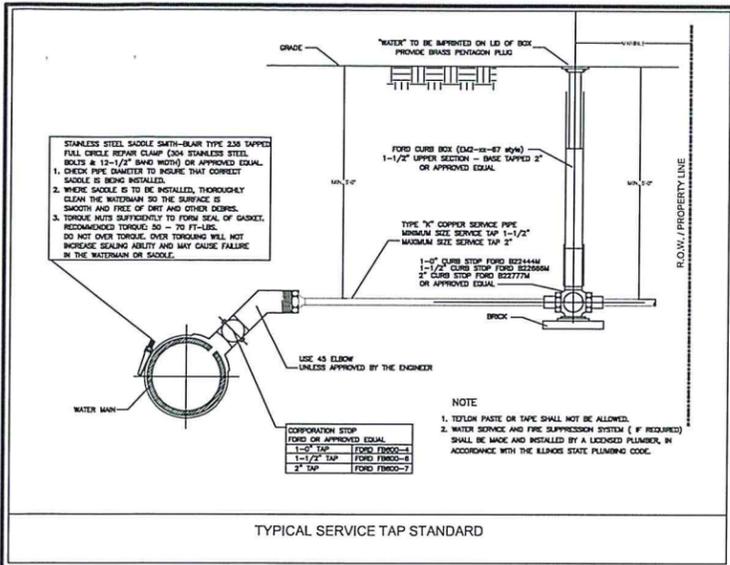


**SANITARY SEWER
 PROFILE**

ANTIOCH EYE ASSOCIATES
 23 NORTH AVENUE
 ANTIOCH, ILLINOIS 60002

**SHEET
 5 OF 8**

**DATE
 4/1/17**



REVISIONS

DATE	DESCRIPTION

JON M. TACK P.E.
CONSULTING ENGINEER
 597 MIDNIGHT PASS
 ANTOCH, ILL. 60002
 (847) 838-1179

JM

DETAILS

ANTIOCH EYE ASSOCIATES
 23 NORTH AVENUE
 ANTOCH, ILLINOIS 60002

SHEET
 6 OF 8

DATE
 4/1/17

GENERAL NOTES

- 1) It shall be the responsibility of the developer (owner) and the contractor to abide by, adhere to and perform all work in accordance with the requirements, specifications, standards, practices, policies and codes of the Village of Antioch which includes but is not limited to labor, materials, procedures and safety.

GENERAL UNDERGROUND UTILITIES

- 1) All sewer construction shall conform to the approved permit plans unless revisions have been approved by the Village, as well as any and all other Agencies.

SANITARY SEWER

- 1. All sanitary sewers shall be P.V.C. pipe SDR 26 (min.) complying with ASTM D3034, with factory fabricated joints complying with ASTM D3212, and elastomeric gaskets complying with ASTM F-477 or as approved by the Village of Antioch.

PAVING NOTES

- 1) Subgrade shall be finished to 0.1 foot of design subgrade elevations by the earthwork contractor. Fine grading for pavements and curb & gutter shall be the responsibility of the paving contractor.

SPECIAL CONDITIONS FOR CONSTRUCTION WITHIN A COUNTY HIGHWAY RIGHT-OF-WAY

WORK NOTIFICATION
Prior to starting construction the Permit Section, (847) 397-7400, shall be called and given the construction start date.

BACKFILLING

Backfilling operations shall be simultaneous with the construction operations and shall be in accordance with the "Standard Specifications for Road and Bridge Construction".

MANHOLE VALVES, VALVE VAULTS AND APPURTENANCES

The top of the frame and lid or cover of a manhole, valve vault shall be flush and contoured to the surrounding ground. If this is not possible due to an excessive slope, the surrounding ground shall be regraded or the frame and lid or cover partially heaved to provide for a gradual transition slope as the area can be safely traveled and no hazard to the public will result.

SURFACE APPURTENANCES THAT EXTEND ABOVE THE SURROUNDING GROUND SURFACE SHALL BE LOCATED WITHIN 2' OF THE COUNTY HIGHWAY RIGHT-OF-WAY

EXISTING LIFE LINES AND STORM SEWERS that are encountered during construction operations shall be replaced if broken with like size and kind of material. The lead and storm sewer crossings of the excavation shall be bridged with rigid material such as wood or steel. The location and depth of any encountered life lines and storm sewers shall be recorded and a copy given to the Lake County Division of Transportation.

WINTER CONSTRUCTION WORK

Snow and ice removal operations of the Lake County Division of Transportation shall have precedence over the construction operations. A 10-foot wide (minimum) clear area from the highway pavement edge shall be maintained for the routine storage of snow and ice. No construction equipment or materials shall be stored in this 10-foot wide (minimum) clear area nor shall any piles of dirt or excavated materials be left in this area.

RESTORATION AND CLEANUP

The area of the County Highway right-of-way disturbed by construction operations shall be kept to a minimum and shall be restored as promptly as weather and soil conditions permit. If restoration is not accomplished voluntarily, the Lake County Division of Transportation may issue a final order for the completion of the restoration work.

Turf Areas of the Right-of-Way Disturbed by Construction Operations

Turf areas of the right-of-way disturbed by construction operations shall be protected and regraded to an equal or better condition than existed before construction. Also an average 3-inch depth of topsoil, fertilizer, seed and mulch shall be used. Hydro seeding is also acceptable. Sod shall be used in high erosion areas. This restoration work will be completed and inspected within the turf cover time established.

Other Areas of the Right-of-Way that have been Disturbed such as Curb and Gutters, or of others (including utility companies) shall be repaired or replaced or the owner of the damaged property reimbursed for the costs of repairing the damaged property by the owner.

RESTORATION GUARANTEE

Any restoration work that fails within one year of completion shall be redone. Also, any settlement that occurs within one year of completion of the surface restoration work shall be filled and the surface area restored.

KEEPING ROADS OPEN TO TRAFFIC

All roads shall remain open to traffic. The Contractor may close one lane because of construction only between the hours of 9:00 a.m. and 3:00 p.m. The person in charge shall notify the Lake County Division of Transportation - Transportation Management Center, (847) 377-7000, of any lane closure and when the lane reopens. This information will be broadcast on the Lake County Transitway website and Highway Advisory Radio. The Contractor shall maintain traffic during these restricted hours as shown on the Traffic Control Standards. Two lanes of traffic will be maintained between 3:00 p.m. and 9:00 a.m. and when no construction activities are being carried out. Traffic should around construction areas shall be over paved surfaces and not over gravel shoulders.

EARTHWORK / EROSION & SEDIMENTATION CONTROL

- 1) All construction activities that involves earthwork shall meet the National Pollutant Discharge Elimination System Phase II requirements.
a) Submittal of a Notice of Intent (NDI) to Illinois Environmental Protection Agency (IEPA).
b) Possession of a completed and signed Stormwater Pollution Prevention Plan (SWPPP) and a graphic Erosion and Sediment Control (ESC) plan.
c) Implementation of the SWPPP.
d) Submittal of an Incidence of Noncompliance (ION) if an event occurs.
e) Weekly reports after "K" rainfall or 5" snowfall.
f) Documentation of changes to ESC plan.
g) Submittal of a Notice of Termination (NOT) when final stabilization is achieved.

WATERMAIN

- 1) All water mains shall be pressure tested per requirements of the Village of Antioch. Leakage test method shall be used to pressure test the watermain. The pressure shall be 150 psi.
2) All water mains shall be chlorinated per the requirements of the Village of Antioch.
3) All water mains to be ductile iron pipe per ANSI A21.51 (AWWA C151), Class 52, with "push on" or mechanical joint as required by the Village of Antioch. Pipe to be cement lined per ANSI A21.4 (AWWA C104).
4) All new watermain shall be looped. Dead end watermain(s) is not permitted, unless otherwise approved by the Village Engineer.
5) The minimum cover for watermain and services shall be 5.5 feet from finished grade to top of main (6 ft. max. unless approved otherwise by the Village of Antioch).

Table with 2 columns: REVISIONS, DESCRIPTION. Includes fields for DATE and DESCRIPTION.

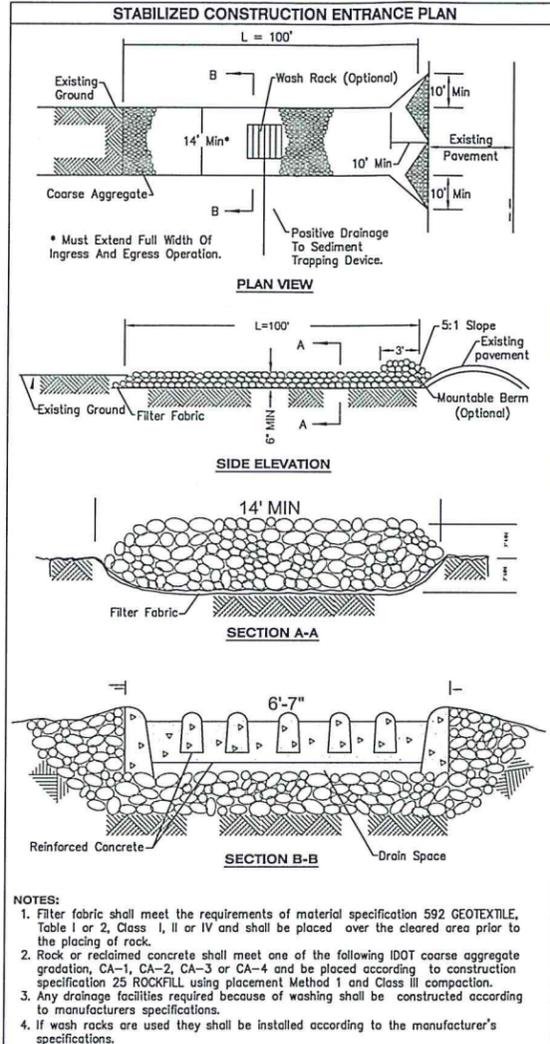
Professional Engineer information for Jon M. Tack, P.E., Consulting Engineer, 597 Midnight Pass, Antioch, IL 60002, (847) 838-1179.

NOTES

ANTIOCH EYE ASSOCIATES
23 NORTH AVENUE
ANTIOCH, ILLINOIS 60002

SHEET 7 OF 8
DATE 4/1/17

MEASURE GROUP	CONTROL MEASURE	APPL.	CONTROL MEASURE CHARACTERISTICS	TEMP.	PRMNT.
VEGETATIVE SOIL COVER	TEMPORARY SEEDING	X	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	X	
	PERMANENT SEEDING	X	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.	X	
	DORMANT SEEDING		SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.		
	SODDING		QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH		
NON VEGETATIVE SOIL COVER	GROUND COVER	X	PROVIDES GROUND COVER, SHRUBS AND TREES IN ADDITION TO PERMANENT VEGETATION. MAY BE USED AS PART OF A FINAL LANDSCAPE PLAN ALONG WITH SHRUBS AND TREES.	X	
	MULCHING	X	ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. CONTROLS UNWANTED VEGETATION AND PRESERVES MOISTURE. PROVIDES COVER WHERE VEGETATION CANNOT BE ESTABLISHED.	X	
	AGGREGATE COVER		PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.		
DIVERSIONS	PAVING	X	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.	X	
	EROSION BLANKET	X	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING TIME OF YEAR IS INAPPROPRIATE AND IN SLOPED AREAS.	X	
	RIDGE DIVERSION		TYPICALLY USED ABOVE SLOPES. USED WHERE AN EXCESS OF SOIL IS AVAILABLE.		
WATERWAYS	CHANNEL DIVERSION		TYPICALLY USED AT TOP OR BASE OF SLOPES. USED WHEN EXCESS SOIL IS NOT AVAILABLE.		
	COMBINATION DIVERSION		TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.		
	CURB AND GUTTER		SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		
	BENCHES		SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY.		
ENCLOSED DRAINAGE	BARE CHANNEL		PROVIDES MEANS OF CONVEYING RUNOFF TO DESIRED LOCATION. MAY BE USED TO DRAIN DEPRESSIONAL AREAS. ONLY APPLICABLE WHEN VELOCITY OF FLOW IS VERY LOW.		
	VEGETATIVE CHANNEL		PROVIDES ADDED STABILITY TO CHANNEL USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.		
	LINED CHANNEL		USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.		
SPILLWAYS	CHANNEL CHECKS		PROVIDES AN ENERGY DISSIPATOR ALONG A LENGTHY CHANNEL TO REDUCE VELOCITY OF STORMWATER.		
	STORM SEWER		CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.		
OUTLETS	UNDERDRAIN		USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DEWATER SEDIMENT BASINS.		
	STRAIGHT PIPE SPILLWAY		USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER.		
	DROP INLET PIPE SPILLWAY		SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.		
SEDIMENT BASINS	WEIR SPILLWAY		USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.		
	BOX INLET WEIR SPILLWAY		SAME AS WEIR SPILLWAY LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.		
SEDIMENT FILTERS	LINED APRON		PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.		
	STONE RIPRAP		USED AS AN ENERGY DISSIPATOR AT OUTLET STRUCTURES TO REDUCE VELOCITIES.		
	SEDIMENT TRAP		USED WHERE TOPOGRAPHY LENDS ITSELF TO CONSTRUCTING A DAM AND EARTH FILL IS AVAILABLE. USED WHERE THERE IS NOT ENOUGH ROOM FOR A WET OR DRY DETENTION BASIN OR IN A LOCATION WHERE DETENTION IS NOT REQUIRED.		
MUD AND DUST CONTROL	SEDIMENTATION POND		A WET OR DRY DETENTION BASIN SIZED FOR THE POST DEVELOPMENT 100 YEAR STORM TEMPORARILY MODIFIED TO ENHANCE SEDIMENT REMOVAL DURING CONSTRUCTION.		
	SILT FENCE	X	USED FOR SINGLE LOTS OR DRAINAGE AREAS LESS THAN 1/2 ACRE TO FILTER SEDIMENT FROM RUNOFF.	X	
	VEGETATIVE FILTER	X	USED ALONG DRAINAGEWAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.	X	X
	FILTER FABRIC		USED FOR FILTERING SEDIMENT WITHIN THE ROADWAY BEFORE ENTERING THE STORM SEWER.		
STABILIZATION	INLET PROTECTION		USED FOR FILTERING SEDIMENT WITHIN GRASS AREAS BEFORE WATER ENTERS THE STORM SEWER.		
	STABILIZED CONST. ENTRANCE	X	PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE. (SEDIMENT ON PUBLIC ROADS IS NOT TO BE FLUSHED OFF WITH WATER).	X	
STABILIZATION	DUST AND TRAFFIC CONTROL	X	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.	X	



GENERAL INFORMATION

1. CONTROLS

This plan has been prepared to comply with the provisions of the NPDES Permit, which is issued by the Illinois Environmental Protection Agency for Stormwater Discharges from Construction Site Activities.

SITE DESCRIPTION

a. The following is a description of the construction activity, which is the subject of this plan:

The proposed development consists of parking lot, office building, driveway access, onsite and off-site sanitary sewer extension.
 These construction activities will include grading & filling, soil erosion and sedimentation control measures.

b. The following is a description of the intended sequence of major activities, which will disturb soil for major portions of the construction site such as site clearing, excavation and grading.

1. Stabilized construction entrance
2. Tree and brush removal where necessary (clear & grub)
3. Performer all fence installation.
4. Strip topsoil, stockpile topsoil and grade site
5. Excavate for basement foundation.
6. Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope)
7. Temporarily stabilize all areas that have reached temporary grade.
8. Permanently stabilize all areas that have reached final grade.
9. Permanently stabilize the entire property.
10. Remove all temporary SE/SC measures after the site is stabilized with vegetation.

*Soil erosion and sediment control maintenance must occur once a week and after every "1/2" or greater rainfall event.

c. The site contains approximately 1.12 acres. 1.12 acres of this site will be disturbed by construction activities.

d. The existing site is comprised of grass and brush.

e. This property is within the Sequoy Creek River Watershed.

2. CONTROLS

This plan addresses the various controls that will be implemented for each of the major construction activities described in 1b above. For each measure discussed, the contractor will be responsible for its implementation as indicated. The general contractor has signed the required certification on this plan.

a) Erosion and Sediment Controls

L. STABILIZATION PRACTICES

Provided below is a description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Except as specifically otherwise in this plan set stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site where construction activity will not occur for a period of 14 or more calendar days.

A. Where the initiation of stabilization measures by the 10th day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.

The following interim and permanent stabilization practices, as a minimum will be implemented to stabilize the disturbed area of the site:

1. Permanent seeding
2. Temporary seeding, mulch, erosion mat, etc
3. Erosion Blanket with seed

B. Erosion control structures must be inspected weekly and after every rain event of one-half inch of rainfall or greater. Any repairs or replacements needed to ensure adequate erosion control must be made immediately.

Any situation of conduits, structures, or ditches being plugged shall be cleaned and maintained by the Contractor on a weekly basis, until the seeding has taken hold. All washouts, gulches, etc. will be regraded and reseeded by the contractor, at the Contractor's expense. Sediment on public roads from the site shall not be flushed off with water.

The Contractor's responsibility for erosion control shall extend throughout the construction process. The Contractor shall be responsible for cleanup of powder surfaces within and adjacent to the project.

All erosion control practices shall be in compliance with the latest revision of the "Standard Specifications for Road and Bridge Construction", by the Illinois Department of Transportation and with the Illinois Environmental Protection Agency's "Illinois Urban Manual".

M. STRUCTURAL PRACTICES

Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. The installation of these devices may be subject to Section 404 of the Clean Water Act.

n. Stormwater Management

Provided below is a description of measures that will be installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

The practices selected for implementation were determined on the basis of the technical guidance contained in EPA's Standard Specifications for Soil Erosion and Sedimentation Control, and other references listed in the Specifications. The stormwater pollutant control measures shall include:

1. Silt Fence

Velocity dispersion devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g., maintenance of hydrologic conditions, such as the hydro period and hydrodynamics present prior to the initiation of construction activities).

Stormwater Management Control Includes:

1. Vegetative filter strips
2. Rip Rap

c. Other Controls

1. Waste Disposal. The solid waste materials including trash, construction debris, excess construction materials, machinery, tools and other items will be collected and disposed off-site by the contractor. The contractor is responsible to acquire any permit required for such disposal. Burning on the site will not be permitted. No solid materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.

2. The provision of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

d. Approved State or Local Plans

The management practices, controls and other provisions contained in this plan are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual, use latest version. Requirements specified in sediment and erosion control site plans or site permits or stormwater management or surface water resources act, upon identical or an AIC to be authorized under this permit, incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

3. MAINTENANCE

The following is a description of procedures that will be used, if applicable, to maintain, in good and effective operating conditions, vegetation, erosion and sediment control measures and other protective measures identified in this plan and Standard Specifications.

Vegetative or erosion control measures: The vegetative growth or temporary and permanent seeding, sodding, vegetative channels, vegetative filter, etc. shall be maintained periodically and supply adequate watering. The vegetative cover shall be reseeded as necessary.

Sedimentation basins/traps if applicable: The sediments shall be removed when the sediment occupies 40-50 percent of the total original capacity. In no case shall the sediment be built up to within 1 foot of the crest elevation. At this stage, the basin shall be cleaned out to restore its original volume. Sediment Basins shall be removed at end of construction; at the time the final surface course has been placed.

Silt filter fence: The damaged silt filter fence shall be restored to meet the Original Design Standards. Removed and replaced as needed.

Riprap outlet protection: It shall be inspected after high flows for any scour beneath the riprap or for stones that have been dislodged. It shall be repaired immediately.

Ditches shall be planted with Low Profile Native Grass mix and not mowed.

4. INSPECTIONS

Qualified personnel shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven calendar days and within 24 hours of the end of a storm that is 0.50 inches or greater or equivalent amount.

a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.

b. Based on the results of the inspection, the description of potential pollutant sources identified in accordance with the Site Description of this permit and pollution prevention measures identified in the plan shall be revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any change to the plan within 7 calendar days following the inspection.

c. A report summarizing the scope of the inspection, the name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with paragraph b above shall be made and retained as part of the storm water pollution prevention plan for at least 3 years after the date of inspection. The report shall be signed in accordance with Signatory Requirements of this permit.

d. The permittee shall complete and submit within 5 days an "Incidence of non-compliance" (ION) report for any violation of the storm water pollution prevention plan observed during an inspection conducted, including those not required by the Plan. Submission shall be on forms provided by the Agency and include specific information of the cause of non-compliance, actions which were taken to prevent any further causes of non-compliance, and a statement detailing any environmental impact, which may have resulted from the non-compliance.

e. All reports of non-compliance shall be signed by a responsible authority as defined in General Permit BR10, Part VI, G (Signatory Requirements).

f. All reports of non-compliance shall be mailed to the Agency at the following address:

Illinois Environmental Protection Agency
 Division of Water Pollution Control
 Compliance Assurance Section
 1021 North Grand East
 PO Box 19276
 Springfield, IL 62794-9276

5. NON-STORMWATER DISCHARGES

Except for flows from fire fighting activities, sources of non-stormwater that may be combined with stormwater discharges associated with the construction activity address in this plan are described below:

- a. Watering for dust control
- b. Irrigation drainage for vegetative growth for seeding, etc.

The pollution prevention measures, as described below, will be implemented for non-stormwater components of the discharge.

The erosion due to irrigation of seeding shall be considered minor.

Contractor to provide the above non-stormwater discharges control to the standard specification required by the County or the approved equal.

c. End of construction season/winter construction:

The grading contractor shall submit to the inspecting engineer, between September 1 and September 15, a 8 1/2" x 11" (or 11" x 17") reduced size grading sheet (unmarked sheet) to be provided by the design engineer, marked to show areas to be disturbed and stabilized through the remainder of the year. This will include proposed schedule dates for grading activities and for placement of topsoil, seed, and erosion blankets. The contractor shall not propose to disturb new areas that cannot be reasonably expected to be stabilized before the end of the year. This plan shall be updated and resubmitted the first week of each month as long as work continues up to and including February. Each update will account for weather conditions, work completed, and available manpower.

In general, unless altered by unseasonably warm or cold conditions, no seeding shall be placed between October 15 and November 15. Dormant seeding shall be placed on any un-stabilized areas remaining after November 15 (where active grading has ceased). Dormant seeding shall be of the appropriate mixture for temporary or permanent seeding, but shall be placed at 150 % of the normal rate. Dormant seeding shall also be covered with excelsior mat (where specified on the erosion control sheet) or with straw mulch at a rate of 2 tons/acre. If straw is placed, it shall be crimped into the soil by running over it with a tractor/bulldozer or similar tracked machine. All unfinished areas should be so stabilized before the first measurable and lasting snowfall. Any areas not stabilized shall be stabilized as soon as the snow melts.

Underground utility work may continue at the contractor's discretion. After November 15, once a portion of a trench is backfilled, it shall immediately be treated with dormant seeding as described above. Any grading that continues past December 15 shall be phased to minimize the amount of area being actively disturbed. Ongoing grading and stockpiles shall be surrounded with silt fence on the downhill edge and along curbs until grass is established.

CONTRACTOR CERTIFICATION STATEMENT

"I certify under the penalty of law that I understand this storm water pollution prevention plan and the terms of the National Pollutant Discharge Elimination System (NPDES) permit (ILR10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification"

Date _____
 Signature _____
 Title _____
 Name of Firm _____
 Address _____
 City State Zip Code _____
 Phone Number _____

OWNER CERTIFICATION STATEMENT

"I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Date _____
 Signature _____
 Title _____
 Name of Firm _____
 Address _____
 City State Zip Code _____
 Phone Number _____

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A, B, C, D									
SODDING				G++								
TEMPORARY SEEDING												
DORMANT SEEDING												

STANDARD LAWN MIXTURE A
 (1) KENTUCKY BLUEGRASS 50 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE AND CREEPING RED FESCUE 20 LBS/ACRE

SALT TOLERANT MIXTURE B
 (1A) BLUE GRASS 30 LBS/ACRE PERENNIAL RYEGRASS 10 LBS/ACRE DAMSONS RED FESCUE 10 LBS ACRE SCALDIS HARD FESCUE 10 LBS/ACRE FULTS SALT GRASS 30 LBS/ACRE

LOW PROFILE NATIVE GRASS MIXTURE C
 ANDROPOGON SCOPARIUS (LITTLE BLUE STEM) 5 LBS/ACRE BOUTELOVA CURTIPENDULA (SIDE OATS GRAMA) 5 LBS/ACRE ELYMUS CANADENSIS (WILD RYE) 1 LBS/ACRE SPOROBOLUS HETEROLEPIS (PRAIRIE DROPSEED) 0.5 LBS/ACRE ANNUAL RYE GRASS 25 LBS/ACRE OATS, SPRING 25 LBS/ACRE PERENNIAL RYE GRASS 15 LBS/ACRE

WETLAND GRASS AND SEDGE MIXTURE, D (4B)
 ANNUAL RYE GRASS 25 LBS/ACRE OATS, SPRING 25 LBS/ACRE

E
 CEREAL RYE 90 LBS/ACRE, OR WHEAT 90 LBS/ACRE, OR PERENNIAL RYEGRASS 25 LBS/ACRE

G
 SOD

 IRRIGATION NEEDED DURING JUNE AND JULY

 IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.

()
 IDOT STANDARD

F
 PASTURE MIX (PURE LIVE SEED (PLS))
 6 LB/AC ALFALFA, 2 LB/AC KENTUCKY BLUE GRASS, 4 LB/AC ORCHARD GRASS

NOTE: STANDARD LAWN MIXTURE SHALL BE USED AT ALL LOCATIONS NOT SPECIFIED FOR OTHER STABILIZATION. REFER TO LANDSCAPE PLAN FOR OTHER GROUND COVER FEATURES.

REVISIONS	DATE	DESCRIPTION

JON M. TACK P.E.
 CONSULTING ENGINEER
 597 MIDNIGHT PASS
 ANTOCH, IL. 60002
 (847) 838-1179

JM

SWPPP

ANTIOCH EYE ASSOCIATES
 23 NORTH AVENUE
 ANTOCH, ILLINOIS 60002

SHEET
8 OF 8
DATE
4/1/17

