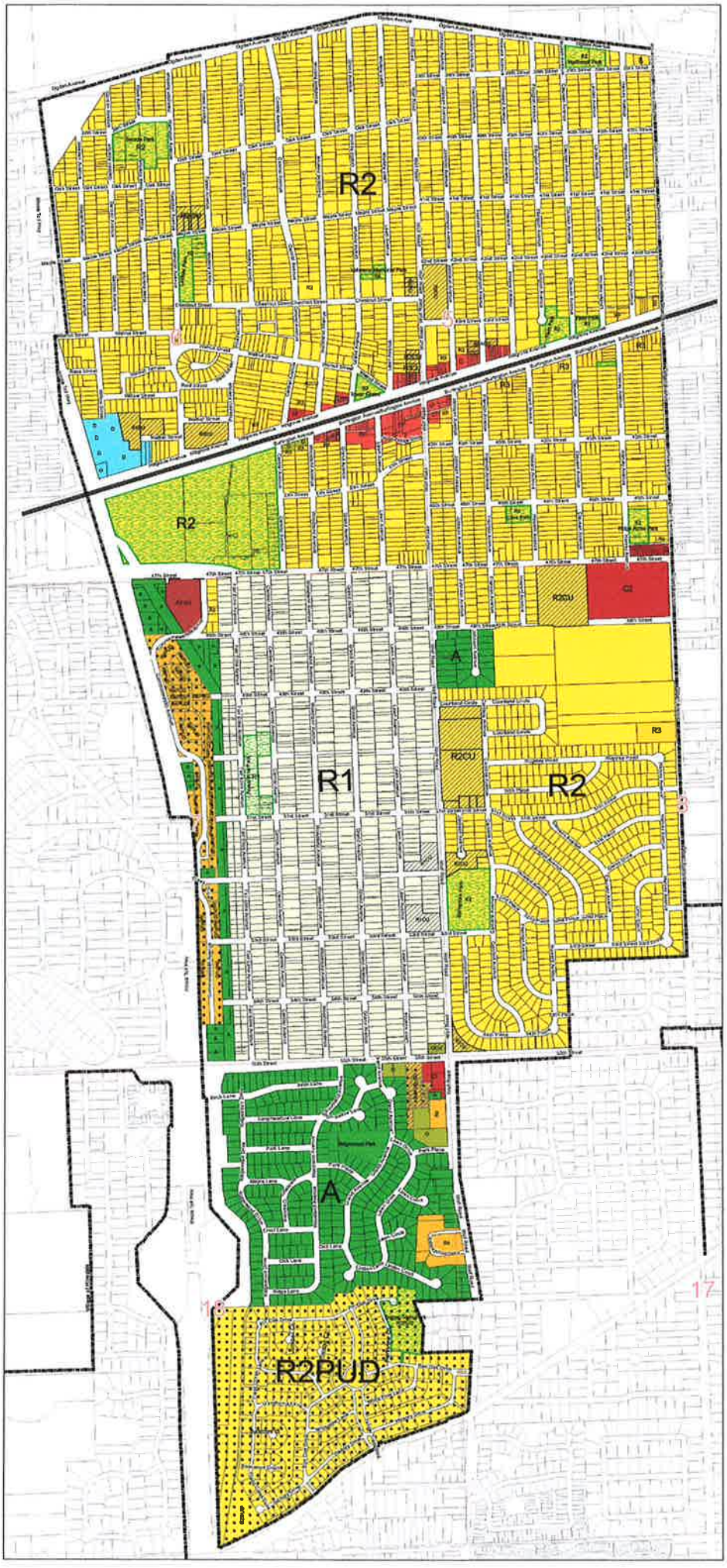
APPENDIX A – TABLES AND FIGURES

- Aerial Photograph
- Western Springs Zoning Map
- Western Springs Long-Range Land Use Plan Map
- USDA – NRCS Soils Map
- DHS – FEMA Flood Insurance Rate Map - FIRMette
- USEPA Non-Attainment Areas for All Criteria Pollutants
- IDNR EcoCAT for Threatened or Endangered Species
- USFWS National Wetland Inventory Map
- Illinois State Geological Survey Earthquake Maps
- IHPA Identified Historic Properties
- Historical Aerial Photographs
- Engineering Site Plans for South Side Satellite Fire Station and EMS Facility
- Catalog Cut Sheets for Solar-Powered Flashing Beacon Controls
- Site Excavation Limits

Imagery Date: Oct 11, 2007
41°47'22.04" N 87°54'00.87" W elev 652 ft
Eye alt 1617 ft
Google
N
Longmeadow Ln
W 55th St
Lawn Ave
SITE
Building has been razed.
Site is currently vacant.
© 2009 Google
Europa Technologies



Village of Western Springs Official Zoning Map 7/28/2008

0 250 500 1,000 1,500 2,000 Feet

ADOPTED BY THE VILLAGE OF WESTERN SPRINGS

7/28/2008 Date — John J. Laynch Village President

ATTEST:

Jeanine M. Jesica Village Clerk (SEAL)

In no event shall the Village of Western Springs have any liability whatsoever for payment of any consequential, incidental, indirect, special, or tort damages of any kind, including, but not limited to, any loss of profits arising out of use of or reliance on this geographic data

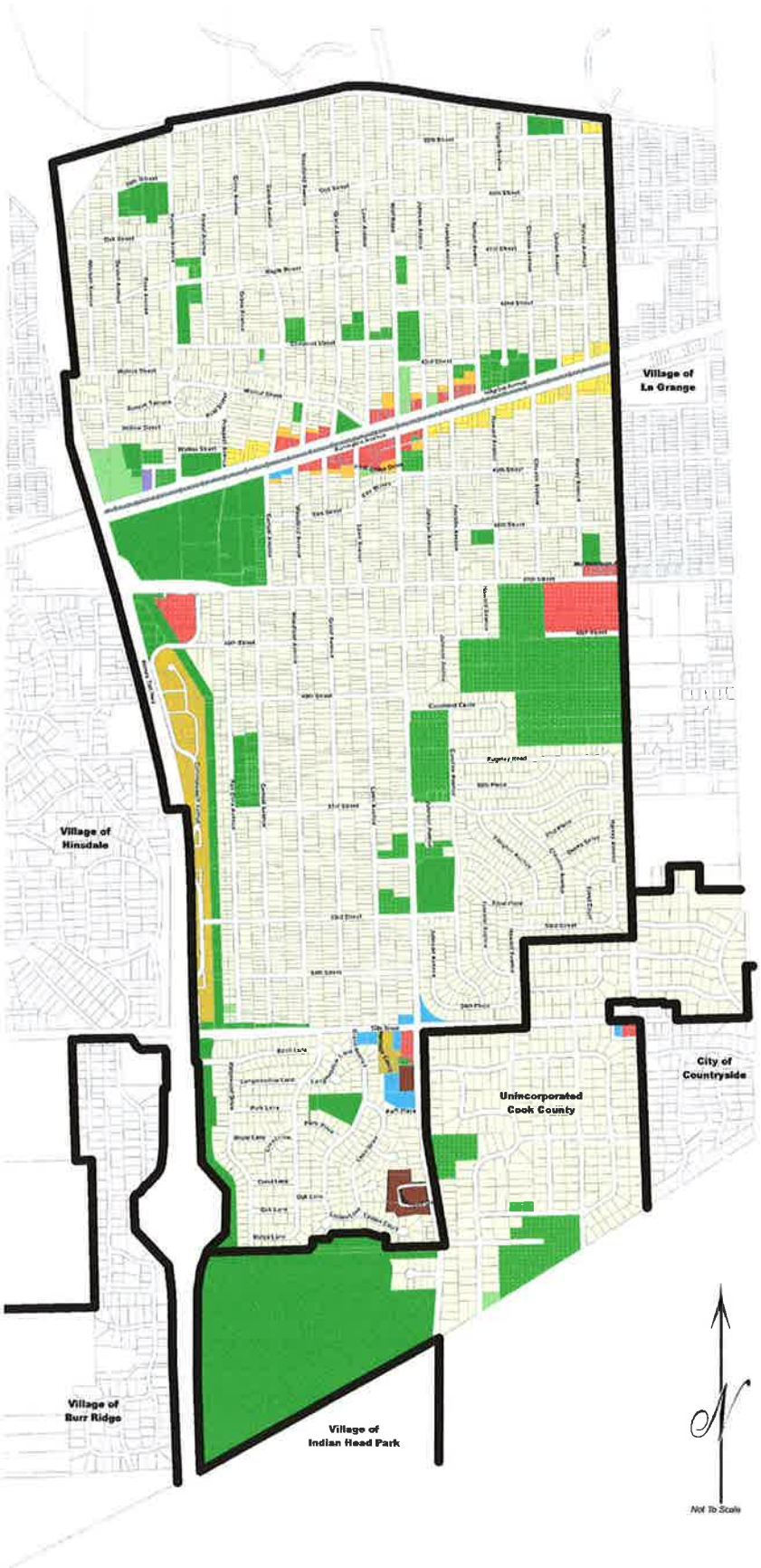
Legend

A	*single family residence*
C1	*village center - commercial district*
C2	*community shopping district*
D	*limited industrial district*
O	*limited office district*
R1	*single family residence*
R2	*single family residence*
R2PUD	*residential planned unit development*
R3	*two-family residence*
R4	*multi-family residence*
R4PUD	*residential planned unit development*
SFA	*single family attached residence*
CU	*existing conditional use (refer to community development dept. for more information)*

section boundaries

parks

corporate limits



Legend

Single Family Detached
A residential area consisting of single-family detached dwellings.

Single Family Attached
A residential area consisting of duplexes (two dwelling units wilhin a single structure) and attached townhomes (with up to four dwelling units in a single structure).

Multiple Family (up to 8 d.u./acre)
Existing residential areas consisting of medium density housing types, including townhomes and duplex dwellings. The typical unit represented in this category is an attached two-story dwelling with a private entrance and garage.

Multiple Family (9-18 d.u./acre)
Existing residential areas consisting of low-rise (2-3 story) apartment or condominium buildings with shared stairwells and common parking areas, varying from four to twenty-four units per structure.

Central Business District
The historic commercial area of the Village, with first-floor retail and service uses in a pedestrian-oriented environment, often relying on shared on-street parking and intermingled with other uses that create an activity center.

Downtown Transitional
An area that provides a land use transition between the business district and adjacent single family residential areas, consisting of: parking lots to serve business uses; landscaped buffer areas; existing residential uses; and single family attached dwellings (as planned developments).

Corridor Commercial
A commercial area consisting of automobile-oriented retail and service businesses, either on separate parcels with dedicated parking lots or in a unified shopping center with common parking, signage and site features.

Office
A commercial area consisting of low-rise (1-2 story) office buildings, usually on separate parcels and with dedicated parking lots.

Office/Research/Industrial
A commercial area that primarily allows for offices, research facilities, light manufacturing, assembly, storage, distribution and/or warehousing, in small-scale facilities that do not generate significant noise or traffic.

Educational and Institutional
Areas consisting of community facilities or public buildings, such as schools, places of worship, the public library, the post office or cultural facilities.

Municipal/Governmental
Areas consisting of municipal facilities such as the Village Hall or Public Works garage.

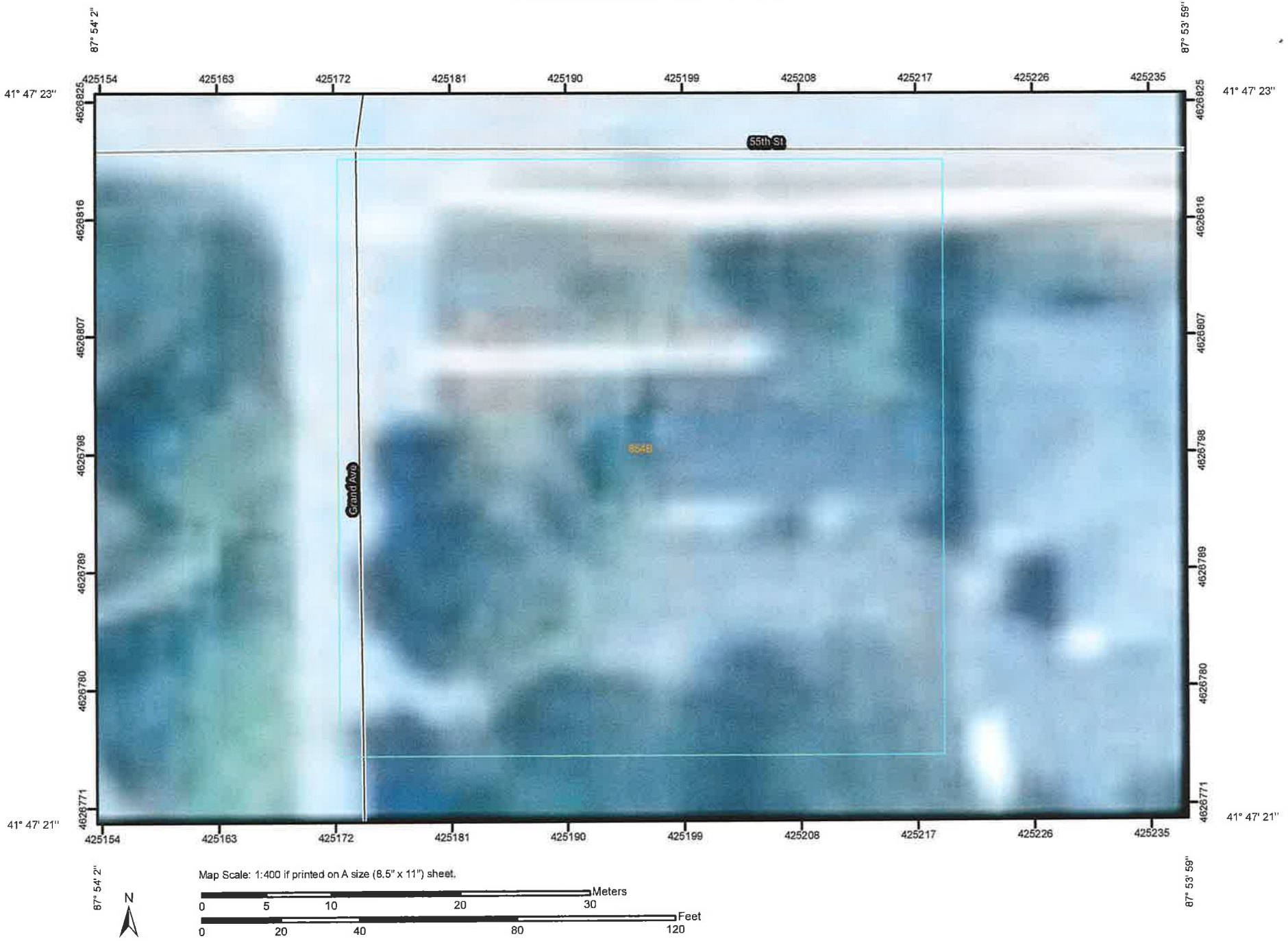
Parks/Open Space/Recreational
Areas intended to be maintained as parks, recreation sites or natural open space amenities

Soil Map—Cook County, Illinois
(5501 Grand Avenue, Western Springs, IL)

USDA Natural Resources Conservation Service

Web Soil Survey
National Cooperative Soil Survey

Soil Map—Cook County, Illinois
(Western Springs South Fire & EMS Facility)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Units

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other

Special Line Features
- Gully
- Short Steep Slope
- Other

Political Features
- Cities

Water Features
- Oceans
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

MAP INFORMATION

Map Scale: 1:400 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 16N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

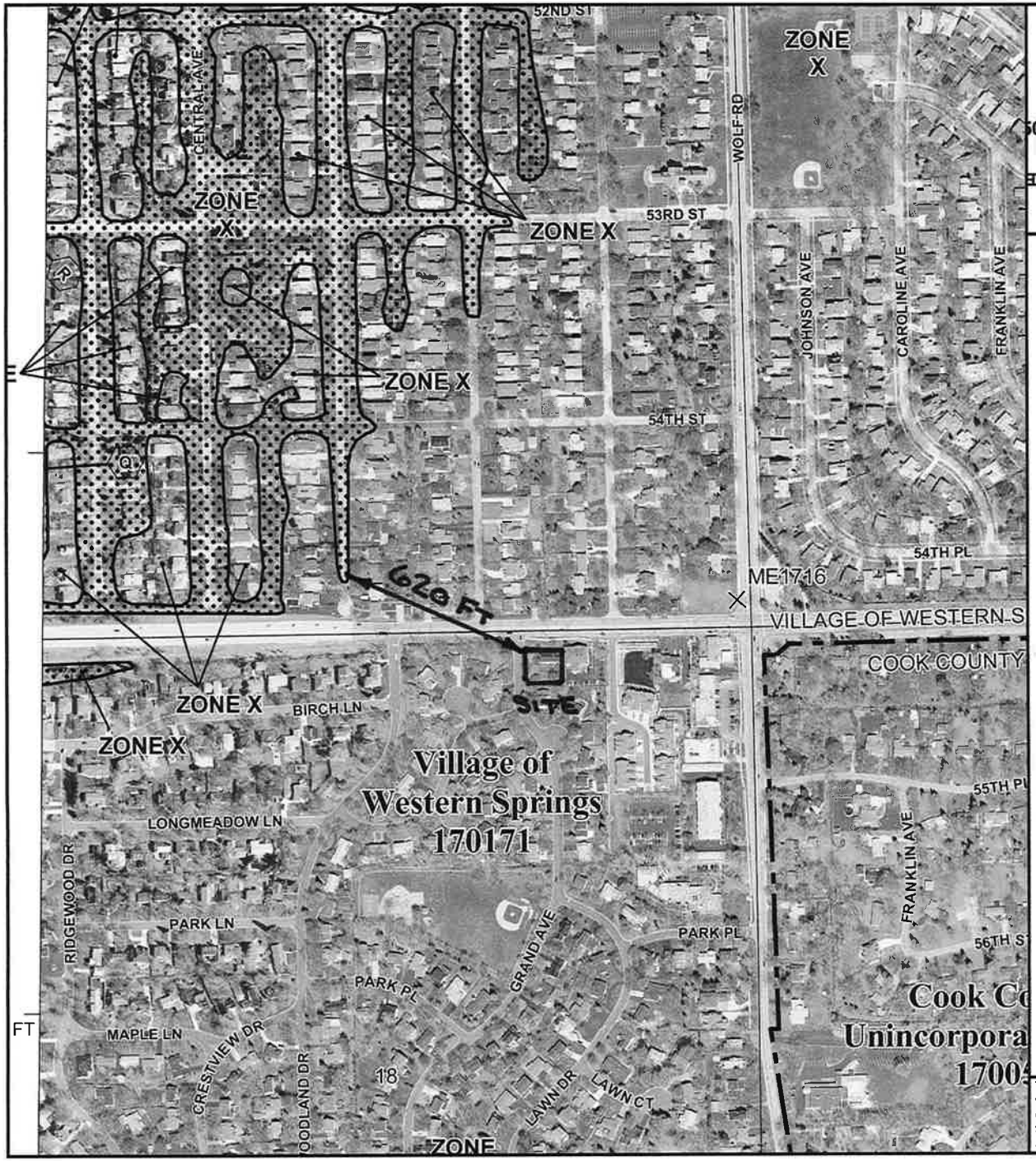
Soil Survey Area: Cook County, Illinois
Survey Area Data: Version 4, Oct 22, 2008

Date(s) aerial images were photographed: 7/7/2007

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Cook County, Illinois (IL031)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
854B	Markham-Ashkum-Beecher complex, 1 to 6 percent slopes	0.5	100.0%
Totals for Area of Interest		**0.5**	**100.0%**



MAP SCALE 1" = 500'

50 0 500 1000

FEET

METE

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0467J

FIRM

FLOOD INSURANCE RATE MAP

COOK COUNTY, ILLINOIS

AND INCORPORATED AREAS

PANEL 467 OF 832

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COOK COUNTY	170054	0467	J
COUNTRYSIDE, CITY OF	170079	0467	J
HINSDALE, VILLAGE OF	170105	0467	J
LA GRANGE, VILLAGE OF	170114	0467	J
WESTERN SPRINGS, VILLAGE OF	170171	0467	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
17031C0467J

MAP REVISED
AUGUST 19, 2008

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Green Book

You are here: EPA Home Green Book Currently Designated Nonattainment Areas for All Criteria Pollutants

Currently Designated Nonattainment Areas for All Criteria Pollutants

Listed by State, County then Pollutant
As of January 06, 2010

On June 8, 2007, the United States Court of Appeals vacated the Subpart 1 portion of the Phase 1 Rule (Court Order). The Subpart 1 areas in the Greenbook are listed as "Former Subpart 1" until reclassification of the areas is finalized. Proposed reclassifications were published on January 16, 2009 (74 FR 2936).

State, County, Pollutant, * Part County NAA, NAA Area Name - Classification Standard

ALABAMA

Jackson Co
PM-2.5 1997 * Chattanooga, AL-TN-GA - Nonattainment

Jefferson Co
PM-2.5 1997 Birmingham, AL - Nonattainment
PM-2.5 2006 Birmingham, AL - Nonattainment

Shelby Co
PM-2.5 1997 Birmingham, AL - Nonattainment
PM-2.5 2006 Birmingham, AL - Nonattainment

Walker Co
PM-2.5 1997 * Birmingham, AL - Nonattainment
PM-2.5 2006 * Birmingham, AL - Nonattainment

State, County, Pollutant, * Part County NAA, NAA Area Name - Classification Standard

ALASKA

Anchorage Municipality
PM-10 * Eagle River, AK - Moderate

Fairbanks North Star Borough
PM-2.5 2006 * Fairbanks, AK - Nonattainment

Juneau City and Borough
PM-10 * Juneau, AK - Moderate

Cook Co		
8-Hr Ozone		Chicago-Gary-Lake County, IL-IN - Moderate
PM-2.5 1997		Chicago-Gary-Lake County, IL-IN - Nonattainment
Du Page Co		
8-Hr Ozone		Chicago-Gary-Lake County, IL-IN - Moderate
PM-2.5 1997		Chicago-Gary-Lake County, IL-IN - Nonattainment
Grundy Co		
8-Hr Ozone	*	Chicago-Gary-Lake County, IL-IN - Moderate
PM-2.5 1997	*	Chicago-Gary-Lake County, IL-IN - Nonattainment
Jersey Co		
8-Hr Ozone		St Louis, MO-IL - Moderate
Kane Co		
8-Hr Ozone		Chicago-Gary-Lake County, IL-IN - Moderate
PM-2.5 1997		Chicago-Gary-Lake County, IL-IN - Nonattainment
Kendall Co		
8-Hr Ozone	*	Chicago-Gary-Lake County, IL-IN - Moderate
PM-2.5 1997	*	Chicago-Gary-Lake County, IL-IN - Nonattainment
Lake Co		
8-Hr Ozone		Chicago-Gary-Lake County, IL-IN - Moderate
PM-2.5 1997		Chicago-Gary-Lake County, IL-IN - Nonattainment
Madison Co		
8-Hr Ozone		St Louis, MO-IL - Moderate
PM-2.5 1997		St. Louis, MO-IL - Nonattainment
Mc Henry Co		
8-Hr Ozone		Chicago-Gary-Lake County, IL-IN - Moderate
PM-2.5 1997		Chicago-Gary-Lake County, IL-IN - Nonattainment
Monroe Co		
8-Hr Ozone		St Louis, MO-IL - Moderate
PM-2.5 1997		St. Louis, MO-IL - Nonattainment
Randolph Co		
PM-2.5 1997	*	St. Louis, MO-IL - Nonattainment
St Clair Co		
8-Hr Ozone		St Louis, MO-IL - Moderate
PM-2.5 1997		St. Louis, MO-IL - Nonattainment
Will Co		
8-Hr Ozone		Chicago-Gary-Lake County, IL-IN - Moderate

EcoCAT
Ecological Compliance Assessment Tool

Applicant:	David A. Koldoff	*IDNR Project #:*	1005228
Contact:	David Koldoff	Alternate #:	1245
Address:	James J. Benes & Associates Lisle, IL 60532	Date:	01/18/2010

Project: 5501 Grand Avenue
Address: 5501 Grand Avenue, Western Springs

Description: Redevelopment of developed land

Natural Resource Review Results

This project was submitted for information only. It is not a consultation under Part 1075.

The Illinois Natural Heritage Database contains no record of State-listed threatened or endangered species, Illinois Natural Area Inventory sites, dedicated Illinois Nature Preserves, or registered Land and Water Reserves in the vicinity of the project location.

Location

The applicant is responsible for the accuracy of the location submitted for the project.

County: Cook

Township, Range, Section:

38N, 12E, 7 38N, 12E, 18

IL Department of Natural Resources Contact
Impact Assessment Section
217-785-5500
Division of Ecosystems & Environment

Disclaimer

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

Terms of Use

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.

2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.

3. IDNR reserves the right to enhance, modify, alter, or suspend the website at any time without notice, or to terminate or restrict access.

Security

EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law. Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

Privacy

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.

U.S. FWS NWI Map

Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:25,703

Map center: 41° 47' 13" N, 87° 54' 1" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

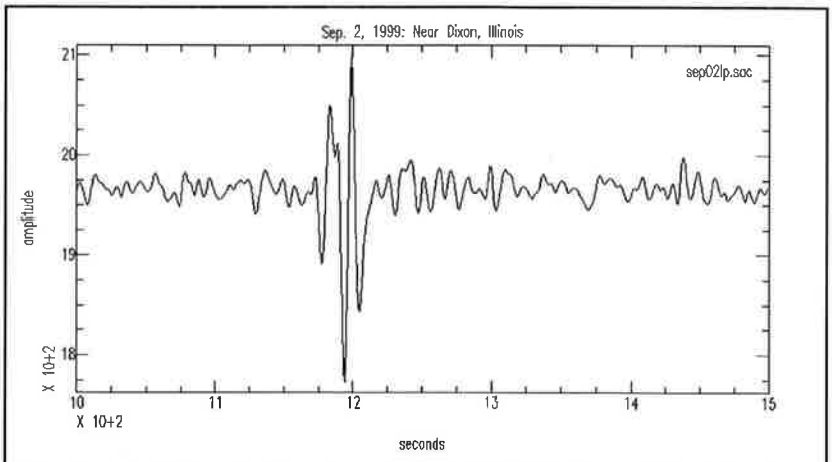
Notes: 5501 Grand Avenue, Western Springs, IL

EARTHQUAKE FACTS
Department of Natural Resources 1999-1 Illinois State Geological Survey

NORTHERN ILLINOIS EARTHQUAKES

Small Quake Shakes the Area

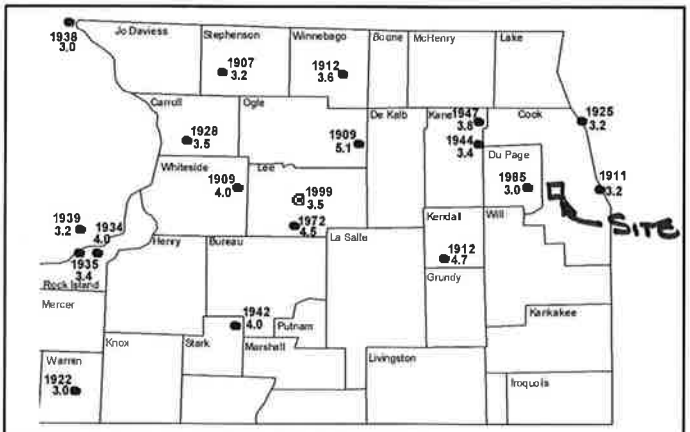
A magnitude 3.5 earthquake shook northern Illinois at 11:17 am Tuesday September 2, 1999. Centered near Dixon in central Lee County, it was felt over a several county area, but there have been no reports of damage. Many residents in the Dixon area felt theground shaking and mistook it for a quarry blast. In Sterling a few miles further away, residents said that the shaking felt like a large truck passing by outside.



Seismogram of Dixon earthquake recorded at Dekalb. *(courtesy NIU Geology Dept.)*

This earthquake was typical of the dozen or so which have occurred in northern Illinois this century, none of them greater than about magnitude 5 on the Richter Scale. Magnitude 5 earthquakes frequently cause minor damage within 10 to 20 miles of the epicenter. Larger earthquakes are not expected in this region.

The Dixon earthquake was located near two earlier earthquakes which did cause minor damage. Many people may still remember the earthquake of September 15, 1972. This magnitude 4.5 earthquake was felt in most of northern Illinois. It caused minor damage such as cracks in chimneys and plaster. An even larger earthquake, estimated to have been at least magnitude 5 on the Richter Scale, occurred in the area in 1909. It was felt in Iowa, Wisconsin, Indiana and Michigan and it caused sidewalks to crack in several Chicago suburbs. Several fires started in Aurora when chimneys fell and gas lines broke.



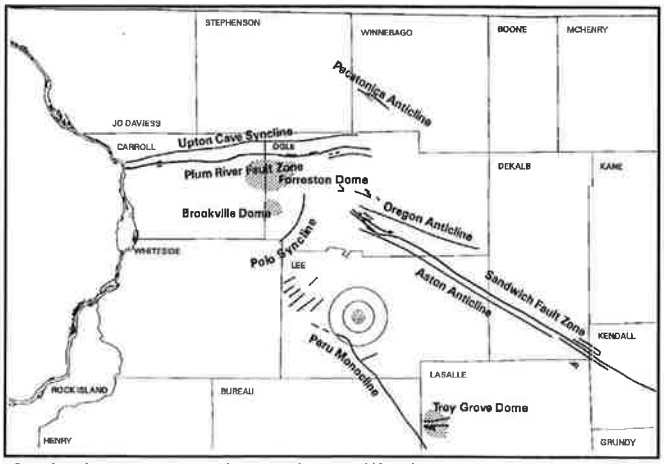
Northern Illinois earthquakes this century.

Dixon Unrelated to New Madrid

The Dixon earthquake was not directly linked to any known faults in Northern Illinois. There has been no measurable movement on any faults in northern Illinois since at least the beginning of the last Ice Age about 1 million years ago.

Several ancient faults are known in the area of this earthquake, including the Sandwich Fault Zone which is about 15 miles northeast of the earthquake epicenter. Another geologic structure, the Peru Monocline passes about 5 to 10 miles southwest of the epicenter. A monocline is a fold in rocks of the earth's crust. In the Peru Monocline, the rocks bend down toward the southwest, toward the coal and oil fields of the Illinois Basin.

The Dixon earthquake was not related to the New Madrid Fault Zone in southern Illinois, Missouri and Arkansas. The New Madrid Fault Zone has been known to produce very large and damaging earthquakes including a magnitude 6+ earthquake in 1895 just across the Mississippi River from Cairo, Illinois in Charleston, Missouri. That earthquake caused major damage in southern Illinois. In northern Illinois, it was felt by many people, but caused no damage. A similar earthquake in the New Madrid region, with similar effects, might be expected within the next several decades.



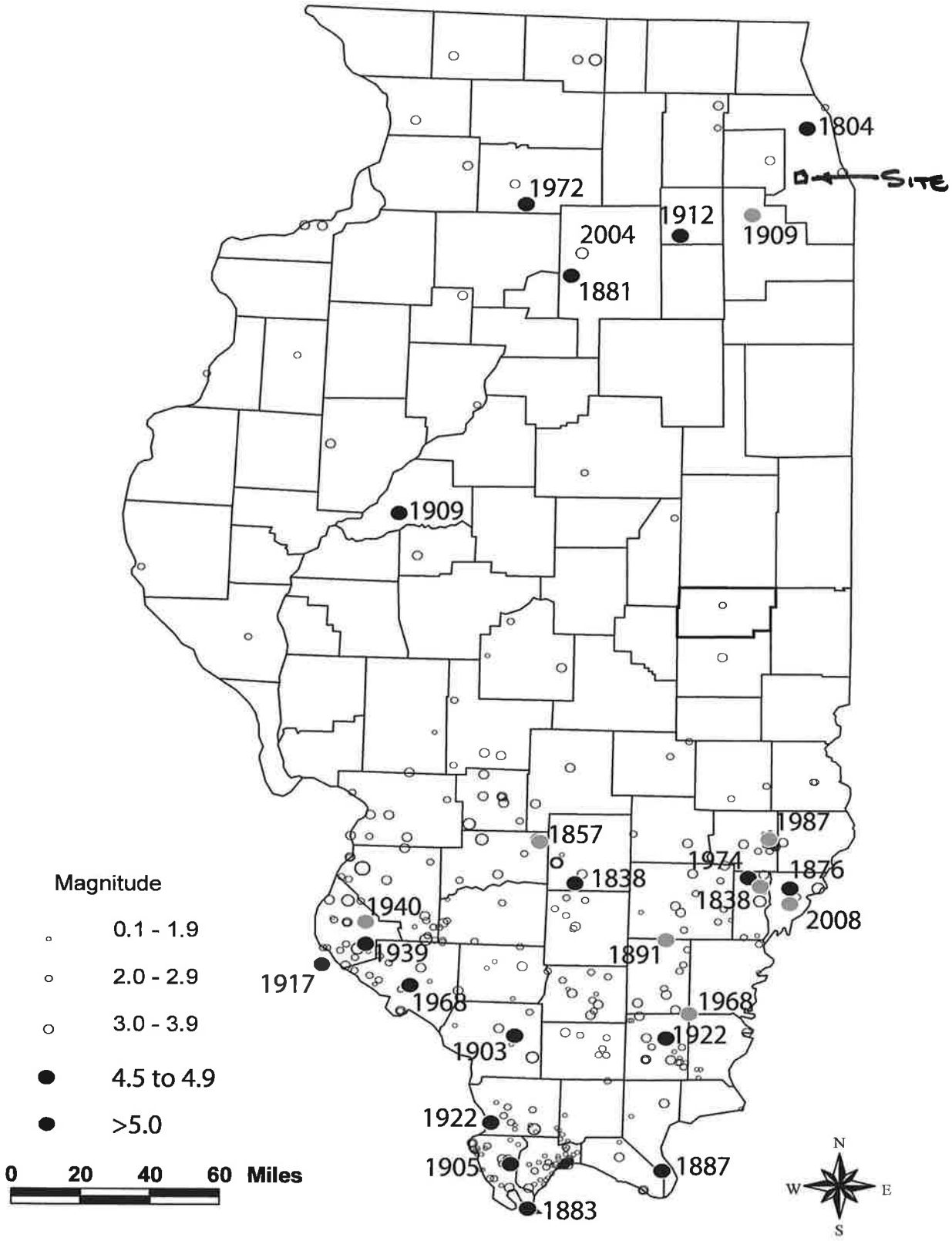
Geologic structures in northern Illinois. Dixon earthquake is between the Peru Monocline and the Sandwich fault Zone.

Sources — St. Louis University Earthquake database; Dr. Philip Carpenter, Northern Illinois University
For further information contact: Illinois State Geological Survey, 615 E. Peabody Dr. Champaign, IL 61820, phone 217-244-2414

Earthquakes In Illinois

1795 - 2008

Illinois State Geological Survey



EARTHQUAKE FACTS
Illinois State Geological Survey 1995-2 Department of Natural Resources

DAMAGING EARTHQUAKES IN ILLINOIS

ILLINOIS SHAKEN BY OCCASIONAL QUAKES

Location of damaging earthquakes in Illinois, year of occurrence, and magnitudes. Magnitudes are estimated for events prior to 1960. Source: ISGS EGN 133.

Earthquakes occur in Illinois about once every year. But damaging quakes are much less frequent. Minor damage from Illinois earthquakes is reported about once every 20 years. Most recently, a magnitude 5.0 earthquake shook southeastern Illinois in June 1987, causing minor damage in the Lawrenceville and Olney areas. Serious damage from earthquakes occurs every 70 to 90 years. Devastating earthquakes are very rare in the central US, occurring about once every 700 to 1200 years.

The last strong earthquake to strike the Midwest happened on Hallo-ween (October 31) 1895. The quake, centered just south of Illinois in Charleston, Missouri, had an estimated magnitude of 6.8 on the Richter scale. It was felt as far away as Pittsburgh, Pennsylvania, New Orleans, Louisiana, and Topeka, Kansas. Although this quake was widely felt throughout the midcontinent, it caused serious damage only in the epicentral area. No substantial buildings collapsed, no one was killed, and there were few injuries.

Area affected by 1895 Halloween earthquake. Smaller shaded area indicates minor to major damage. Shaking was felt inside the larger area.

The 1895 Halloween earthquake was similar in strength to the 1994 Northridge, California, earthquake (magnitude 6.7), which resulted in 33 deaths and $20 billion in damages. If a similar quake were to strike the central US today, we could expect substantial losses. Illinois is less well prepared for earthquakes, and the strong midcontinental crust radiates the damaging seismic waves many times farther than the continental crust in California. This means a much larger area of the Midwest will be exposed to damaging seismic waves from future strong quakes compared with similar quakes in California.

The likelihood of a damaging earthquake (magnitude 6.3 or greater) occurring somewhere in the central US within the next 15 years is 40 to 63% and 86 to 97 % within the next 50 years. An earthquake of this size would cause damage to older structures, especially those of masonry construction. There could be serious damage to many schools in the region.

The probability of a major earthquake (magnitude 7.5 or greater) is only 5 to 9% within the next 15 years, and 19 to 29% within the next 50 years. An earthquake of this size would be felt throughout much of the central and eastern United States. Damage could amount to several billion dollars.

Bricks thrown from chimney in Lawrenceville, Illinois, by a magnitude 5.0 earthquake, June 1987. -- Sourcce: ISGS.

Sources — ISGS EGN 133, USGS Open File Report 80-778, and Center for Earthquake Research and Information, University of Memphis.
For further information contact:
Illinois State Geological Survey, 615 E. Peabody Dr. Champaign, IL 61820, phone 217-244-2414

EARTHQUAKE FACTS
Illinois State Geological Survey 1995-3 Department of Natural Resources

EARTHQUAKE OCCURRENCE IN ILLINOIS

AN EARTHQUAKE EVERY YEAR

The historical record of earthquakes having epicenters in Illinois begins on January 8, 1795. On that date a mild earthquake occurred near Fort Kaskaskia on the Mississippi River in southwestern Illinois. During the 200 years since that event there have been about 200 other earthquakes in Illinois. Only nine of these quakes were strong enough to cause even minor damage. The largest Illinois quake ever recorded occurred on November 9, 1968, and measured magnitude 5.4 on the Richter scale.

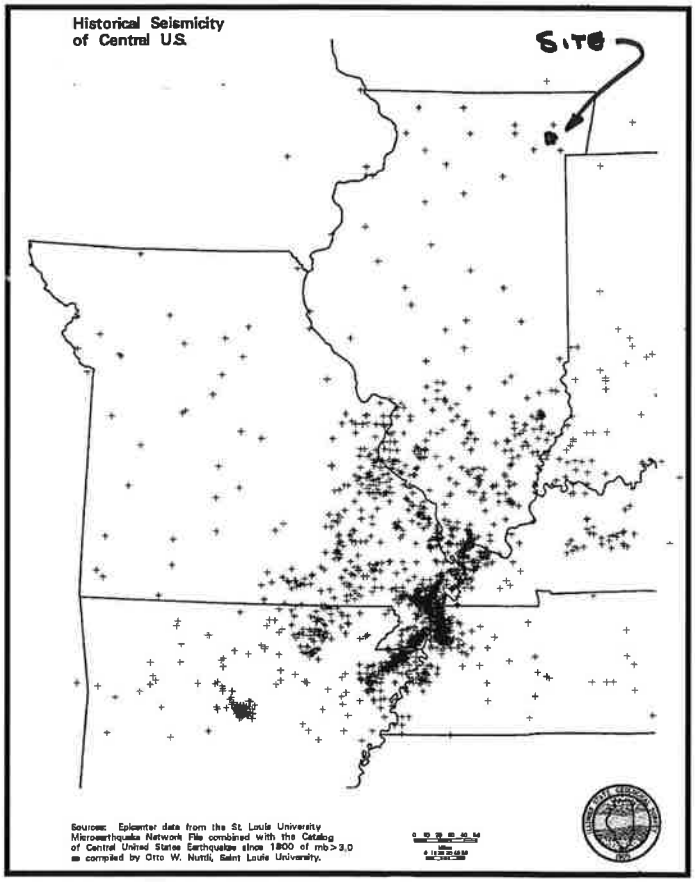
Areas felt (grey) and damaged (black) during the 1968 southern Illinois earthquake.

The last damaging earthquake in Illinois occurred on June 10, 1987, near Olney in southeast Illinois. This quake measured 5.0 on the Richter scale, was felt in parts of 16 states, and caused minor damage in Richland and Lawrence Counties.

Central US Seismicity Stronger earthquakes are known elsewhere in the central US, particularly in the New Madrid Seismic Zone, which runs from about Marked Tree, Arkansas, north-northeast up through the bootheel of Missouri to Cairo, Illinois. The last strong earthquake struck the Midwest on Halloween (October 31) 1895. The quake, centered just south of Illinois in Charleston, Missouri, had an estimated magnitude of 6.8 on the Richter scale.

Three great earthquakes, each larger than magnitude 8.0, struck the New Madrid Seismic Zone during the winter of 1811-1812. This is the largest release of seismic energy ever recorded in the continental US. Fortunately, the region was sparsely populated at the time and only a few casualties were reported.

Sources — ISGS EGN 133, USGS,
and Center for Earthquake Research and Information,
University of Memphis.
For further information contact:
Illinois State Geological Survey, 615 E. Peabody Dr.
Champaign, IL 61820, phone 217-244-2414



Probabilities of future earthquakes The likelihood of an earthquake of magnitude 6.3 or greater occurring somewhere in the Central US within the next 15 years is 40 to 63% and 86 to 97% within the next 50 years. An earthquake of this size would damage older structures, especially those of masonry construction. Serious damage could also occur to many schools in the region.

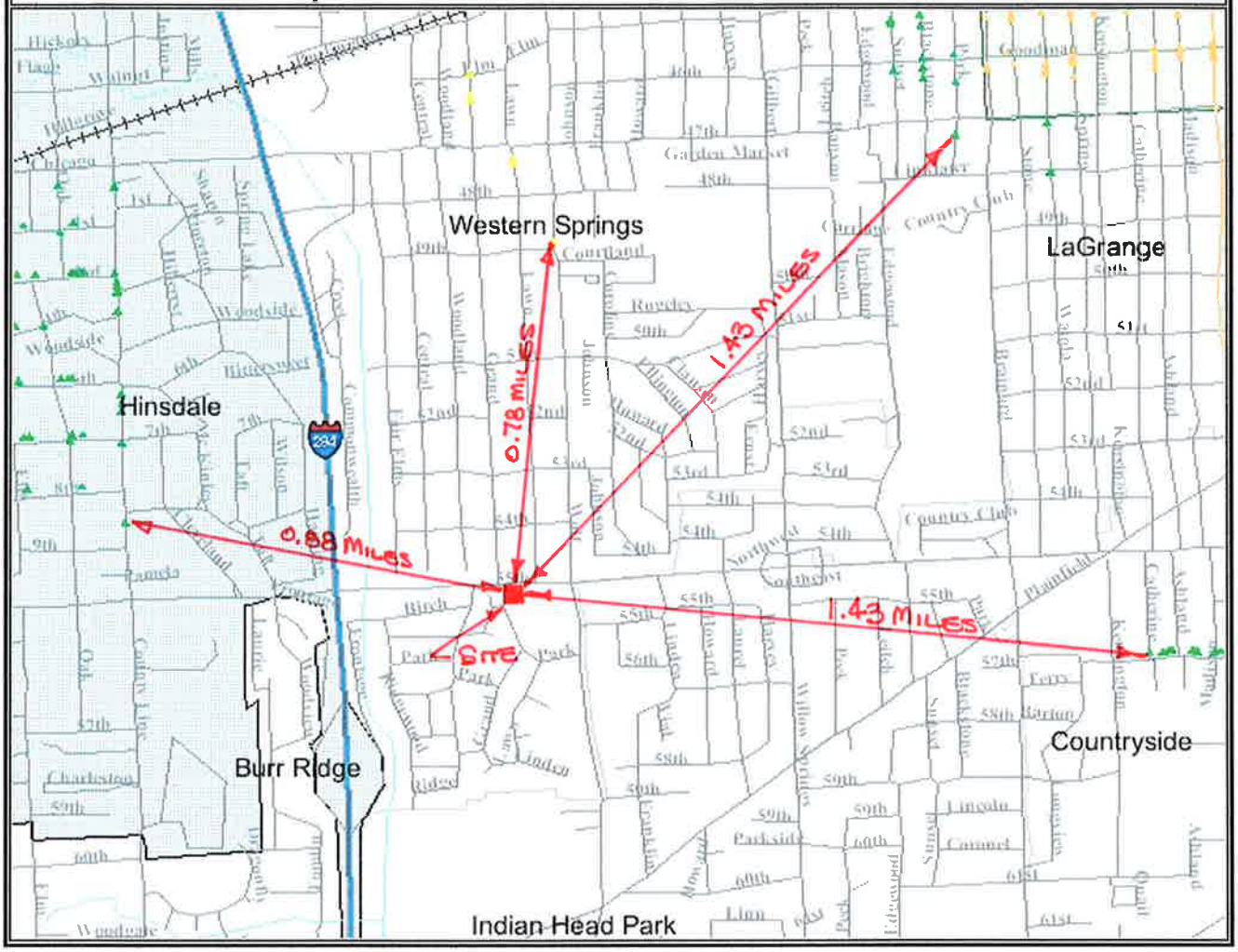
The probability of a major earthquake (magnitude 7.5 or greater) is only 5 to 9% within the next 15 years, and 19 to 29% within the next 50 years. An earthquake of this size would be felt throughout much of the central and eastern United States. Damage could amount to several billion dollars.

Earthquake Frequencies

Mag	Expected Rate Illinois	Central US	World
3	1/yr	6/yr	250/day
4	4 yrs	14 mos	40/day
5	20 yrs	10-12 yrs	8/day
6	?	70-90 yrs	2/wk
7	?	250-500 yrs	20/yr
8	?	550-1200 yrs	2/yr

PRINT

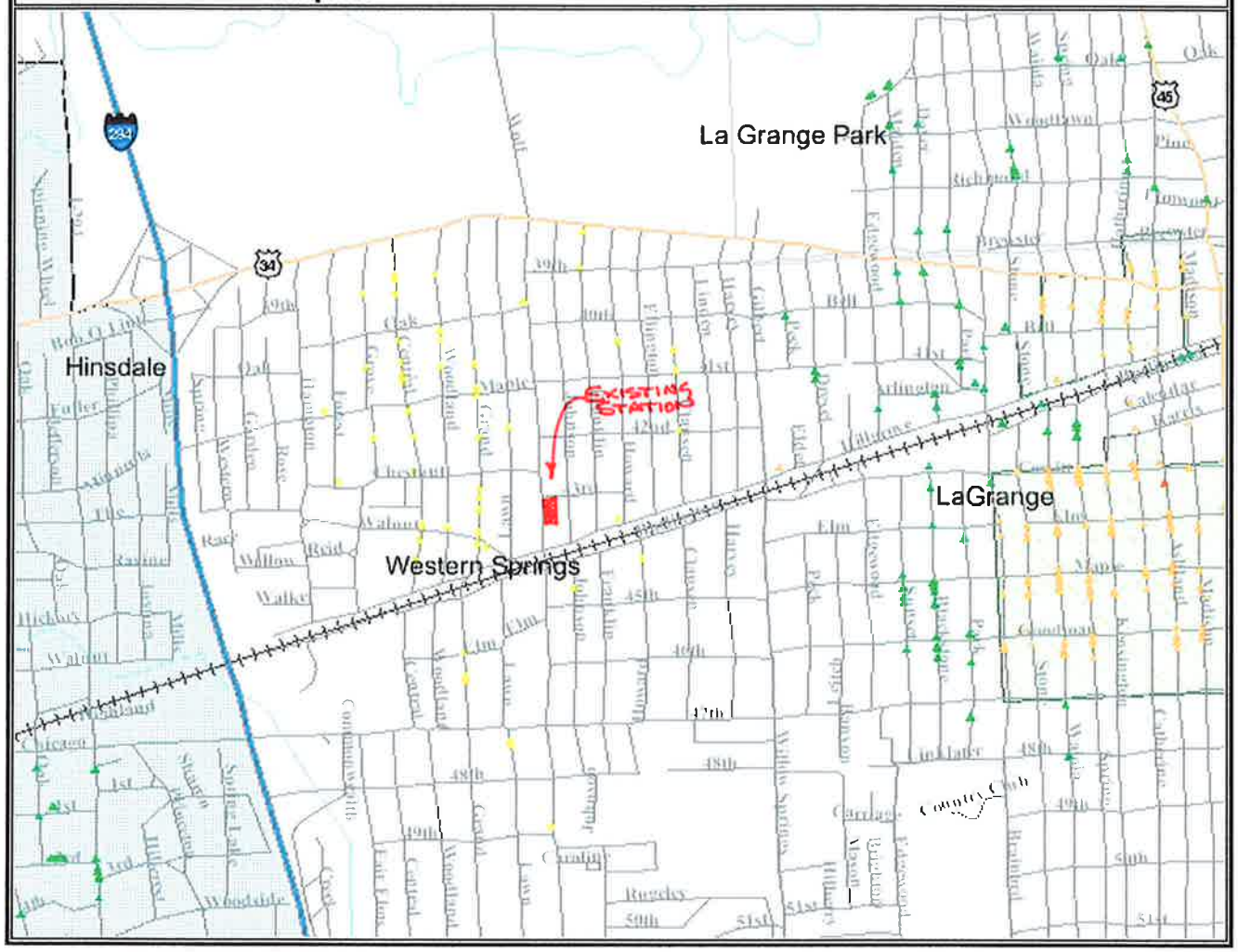
Identified Historic Properties



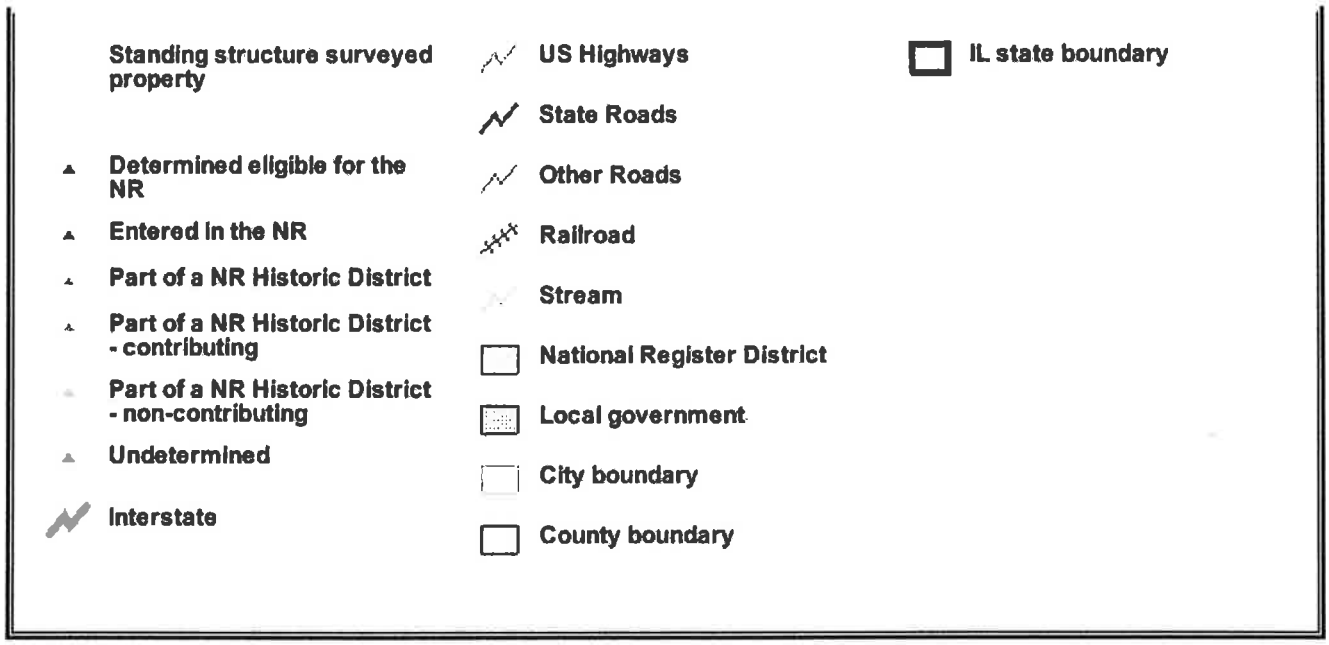
Legend

PRINT

Identified Historic Properties



Legend

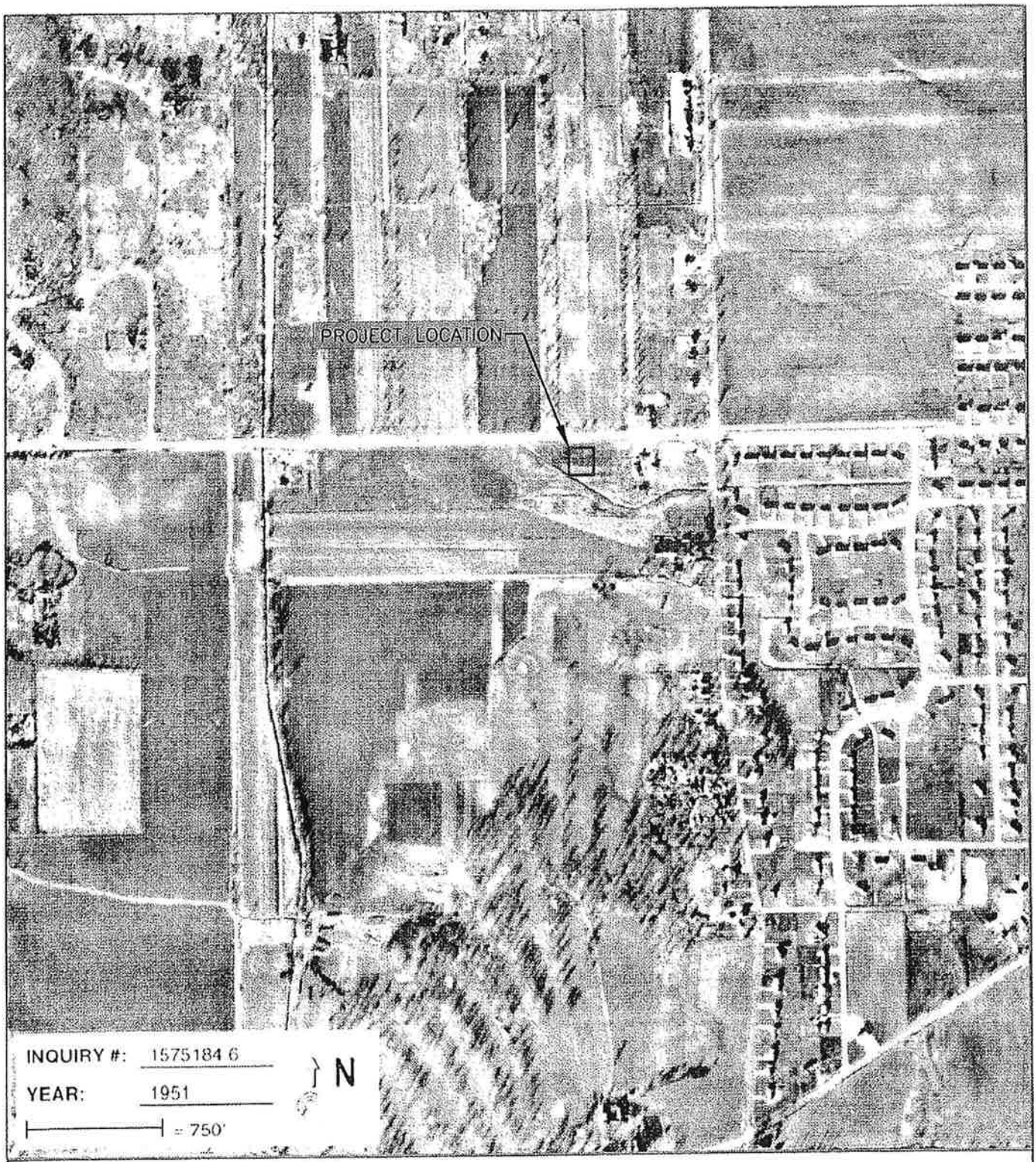

Standing structure surveyed property
Determined eligible for the NR
Entered in the NR
Part of a NR Historic District
Part of a NR Historic District - contributing
Part of a NR Historic District - non-contributing
Undetermined
Interstate
US Highways
State Roads
Other Roads
Railroad
Stream
National Register District
Local government
City boundary
County boundary
IL state boundary

PRINT

Location	Significant Name
, Western Springs, Cook	
SW corner 47th & Grand, Western Springs, Cook	
SW corner 49th & Grand, Western Springs, Cook	
Burlington, E. of Grand, Western Springs, Cook	Chicago Burlington & Quincy Railroad Station
3909 S. Central, Western Springs, Cook	
3917 S. Central, Western Springs, Cook	
3942 S. Central, Western Springs, Cook	
4021 S. Central, Western Springs, Cook	
4050 S. Central, Western Springs, Cook	
4051 S. Central, Western Springs, Cook	
4066 S. Central, Western Springs, Cook	
4071 S. Central, Western Springs, Cook	
4077 S. Central, Western Springs, Cook	
4131 S. Central, Western Springs, Cook	
4206 S. Central, Western Springs, Cook	
4356 S. Central, Western Springs, Cook	
4366 S. Central, Western Springs, Cook	
4380 S. Central, Western Springs, Cook	
1217 W. Chestnut, Western Springs, Cook	Mason Lodge
1106 Chestnut St, Western Springs, Cook	First Congregational Church of Western Springs
NE corner Chestnut & Lawn, Western Springs, Cook	Village Club

1333 W. Chestnut, Western Springs, Cook	
4205 S. Clausen, Western Springs, Cook	
4070 S. Clausen, Western Springs, Cook	
4106 S. Clausen, Western Springs, Cook	
3828 S. Franklin, Western Springs, Cook	
3905 S. Franklin, Western Springs, Cook	
4215 S. Gilbert, Western Springs, Cook	
4069 S. Grand, Western Springs, Cook	
4118 S. Grand, Western Springs, Cook	
4223 S. Grand, Western Springs, Cook	Grand Avenue School
4224 S. Grand, Western Springs, Cook	
4318 S. Grand, Western Springs, Cook	
4326 S. Grand, Western Springs, Cook	
4336 S. Grand, Western Springs, Cook	
4364 S. Grand, Western Springs, Cook	
4376 S. Grand, Western Springs, Cook	
4558 S. Grand, Western Springs, Cook	
4604 S. Grand, Western Springs, Cook	
4615 S. Grand, Western Springs, Cook	
4617 S. Grand, Western Springs, Cook	
3936 S. Grove, Western Springs, Cook	
4052 S. Grove, Western Springs, Cook	
4206 S. Grove, Western Springs, Cook	
4216 S. Hamilton, Western Springs, Cook	

518 Hillgrove, Western Springs, Cook	Merker & James Funeral Home
914 Hillgrove Ave., Western Springs, Cook	Western Springs Water Tower
NE corner Hillgrove & Johnson, Western Springs, Cook	Western Springs Waterworks
4047 S. Howard, Western Springs, Cook	
4440 S. Howard, Western Springs, Cook	
4474 S. Johnson, Western Springs, Cook	
NW corner Lawn & 49th St., Western Springs, Cook	
4209 S. Lawn, Western Springs, Cook	
4737 S. Lawn, Western Springs, Cook	
4746 S. Lawn, Western Springs, Cook	
1000 W. Maple, Western Springs, Cook	
1348 W. Maple, Western Springs, Cook	
811 W. Oak, Western Springs, Cook	
NW corner Prospect & Walnut, Western Springs, Cook	Titsworth House
4839 S. Wolf Rd., Western Springs, Cook	CLOSEST TO 5801 GRAND AVENUE 0.78 MILES.
SE corner Woodland & Maple, Western Springs, Cook	
NW corner Woodlawn & Chestnut, Western Springs, Cook	First Congregational Church
3908 S. Woodlawn, Western Springs, Cook	
4019 S. Woodlawn, Western Springs, Cook	
4032 S. Woodlawn, Western Springs, Cook	
4069 S. Woodlawn, Western Springs, Cook	
4359 S. Woodlawn, Western Springs, Cook	



1951 AERIAL
5501 GRAND AVENUE
WESTERN SPRINGS, ILLINOIS

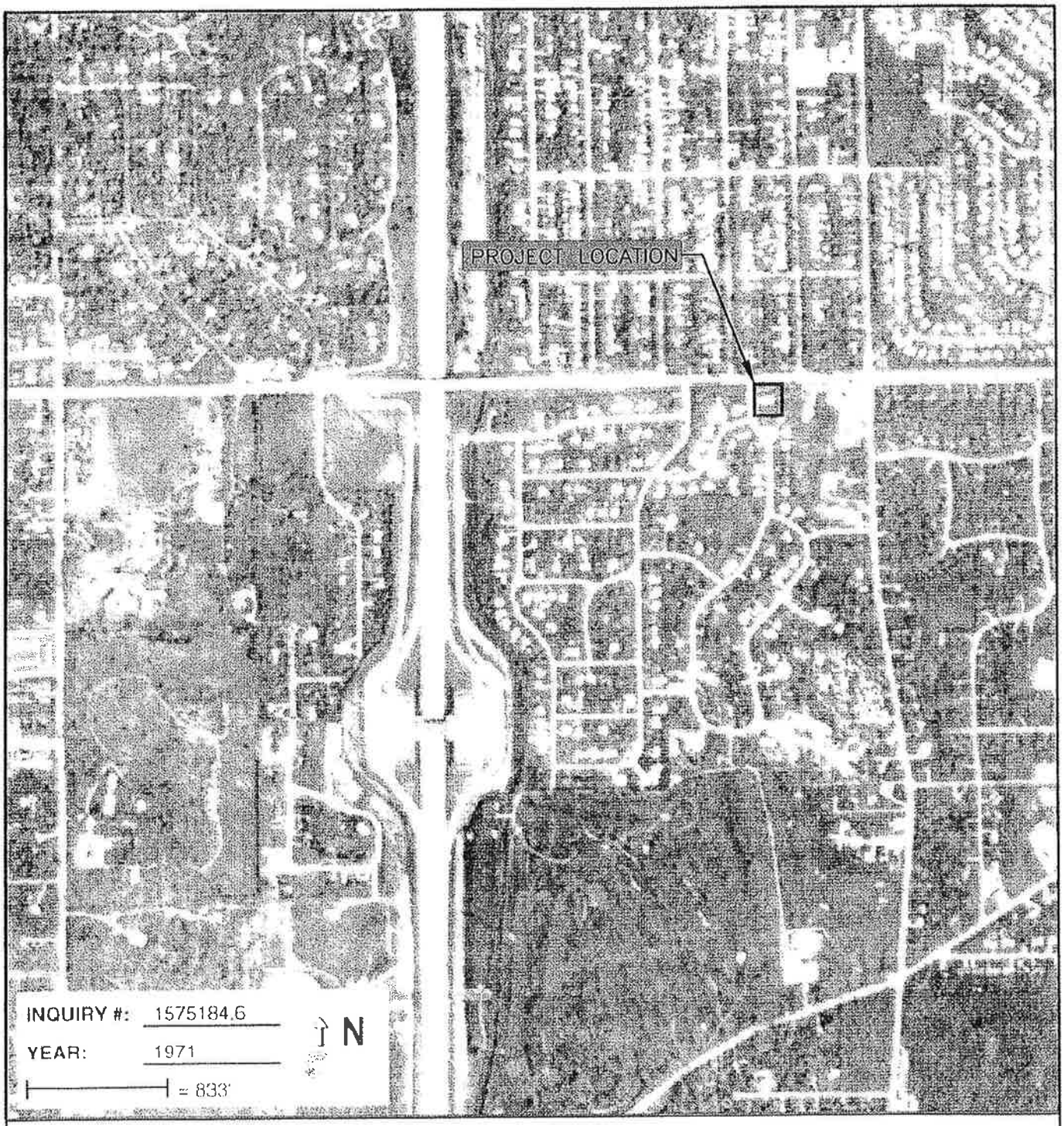
NORTH

CADFILE: 1951-AERIAL

1962 AERIAL
5501 GRAND AVENUE
WESTERN SPRINGS, ILLINOIS

NORTH

CADFILE: 1962-AERIAL



1971 AERIAL
5501 GRAND AVENUE
WESTERN SPRINGS, ILLINOIS

NORTH

CADFILE: 1971-AERIAL

1988 AERIAL
5501 GRAND AVENUE
WESTERN SPRINGS, ILLINOIS

NORTH

CADFILE: 1988-AERIAL

1993 AERIAL
5501 GRAND AVENUE
WESTERN SPRINGS, ILLINOIS

NORTH

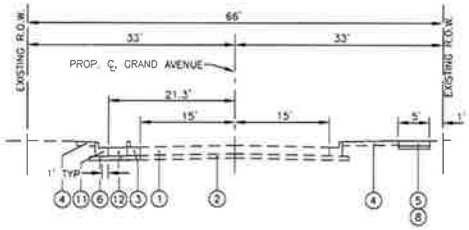
CADFILE: 1993-AERIAL

LEGEND

1. HOT-MIX ASPHALT SURFACE COURSE AND BASE COURSE MATERIAL (THICKNESS VARIES)
2. EXISTING AGGREGATE BASE COURSE (THICKNESS VARIES)
3. COMBINATION CONCRETE CURB AND GUTTER REMOVAL
4. SODDING, SPECIAL * (NOTE 1)
5. SUB-BASE GRANULAR MATERIAL, TYPE B 2" (NOTE 2)
6. SUB-BASE GRANULAR MATERIAL, TYPE B 4"
7. P.C.C. DRIVEWAY PAVEMENT 10"
8. PORTLAND CEMENT CONCRETE SIDEWALK 5" *
9. PORTLAND CEMENT CONCRETE SIDEWALK 10" *
10. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (NOTES 3 & 4)
11. COMBINATION CONCRETE CURB AND GUTTER, TYPE VARIES (SEE PLAN)
12. CLASS D PATCHES, 8" (NOTE 5)

* AT LOCATIONS DESIGNATED BY THE ENGINEER.

NOTES:
1) INCLUDES 4" PULVERIZED TOP SOIL AND FERTILIZER.
2) INCIDENTAL TO P.C.C. SIDEWALK 5"
3) THICKNESS OF CURB FLAG SHALL BE EQUAL TO THE THICKNESS OF PROPOSED PAVEMENT.
4) TIE BARS SHALL BE INCLUDED PER STANDARD 606001
5) HMA SURFACE COURSE, MIX C, N50, 2"
   HMA BINDER COURSE, IL 19.0, N70, 6"



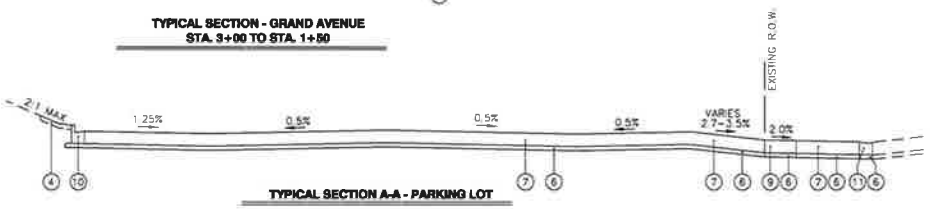
TYPICAL SECTION - GRAND AVENUE
STA. 3+00 TO STA. 1+50

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

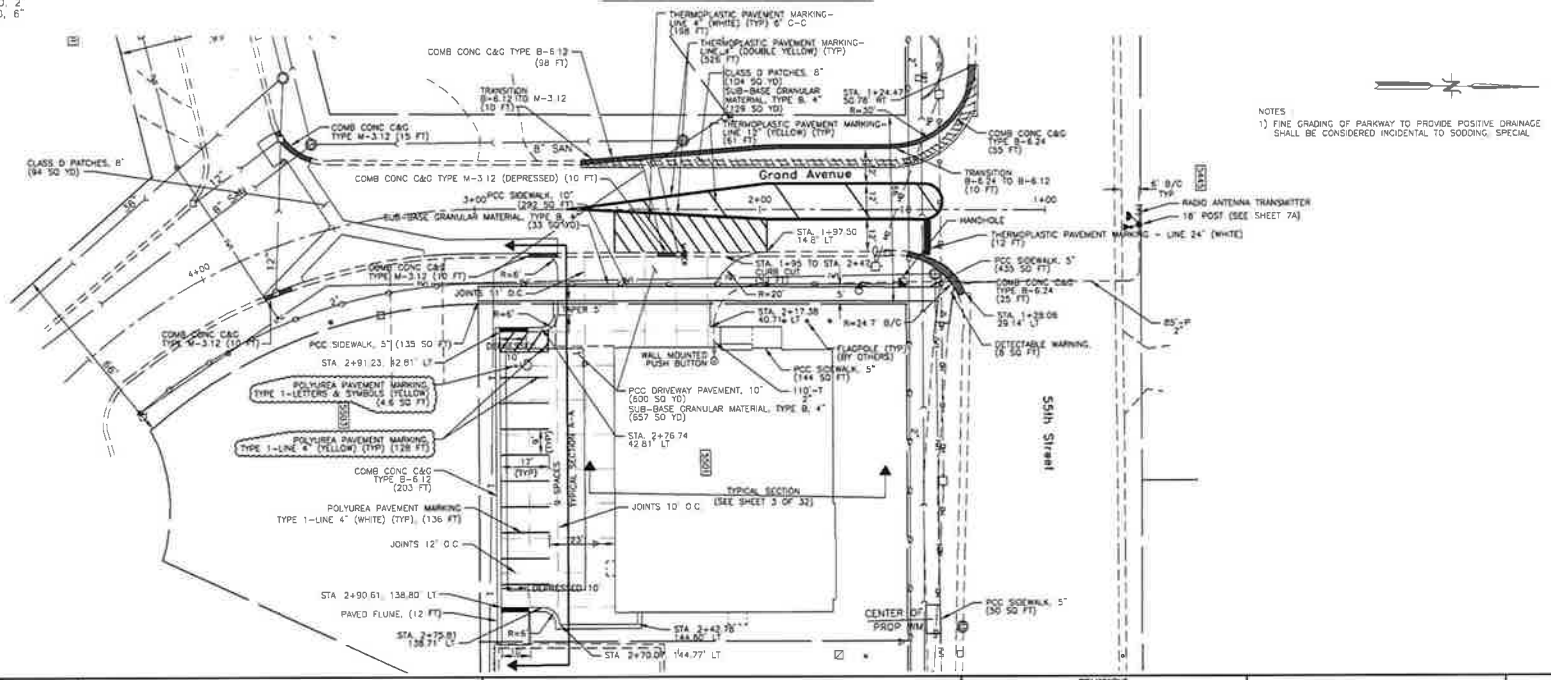
MIXTURE TYPE	AC TYPE	VOIDS
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5 mm)	PG 64-22*	@ 3.0 Gyr
LEVELING BINDER (MACHINE METHOD), N50 (IL 9.5 mm)	PG 64-22*	@ 3.0 Gyr
CLASS D PATCHES		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5 mm)	PG 64-22*	@ 3.0 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70	PG 64-22*	@ 7.0 Gyr

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

* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22



TYPICAL SECTION A-A - PARKING LOT



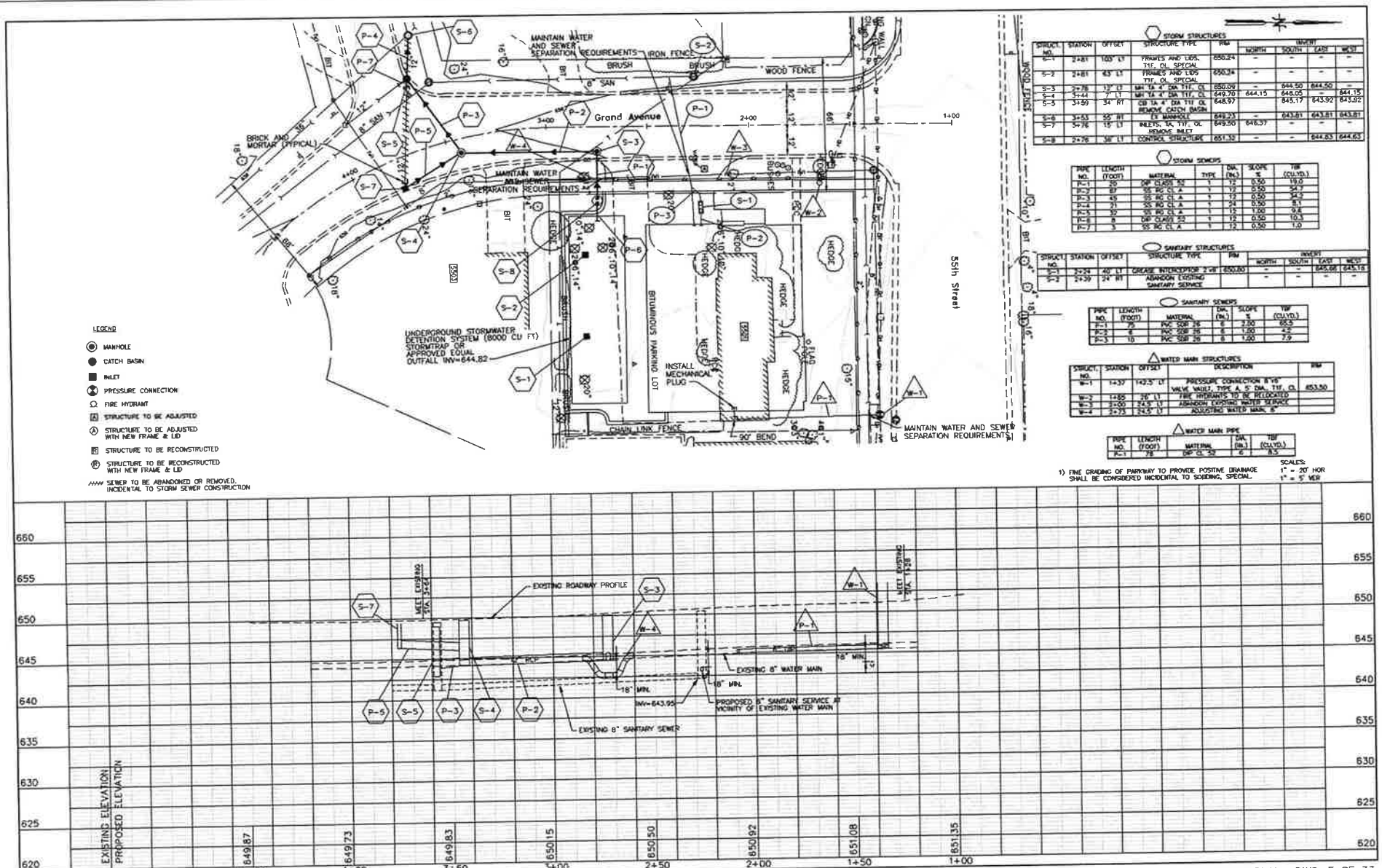
NOTES
1) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE CONSIDERED INCIDENTAL TO SODDING, SPECIAL

DRAWN: BCD	DATE:	JAMES J. BENES & ASSOCIATES, INC.	VILLAGE OF WESTERN SPRINGS
CHECKED: NGN	SCALE: 1"=20'	950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	GEOMETRIC PLAN, STRIPING PLAN AND TYPICAL SECTIONS

REVISIONS

NO.	DATE	DESCRIPTION
1	8/4/09	W.S. COMMUNITY DEVELOPMENT
2	5/30/09	IDOT - PERMITS

DRAWING NO. 4 OF 33



LEGEND

- MANHOLE
- CATCH BASIN
- INLET
- PRESSURE CONNECTION
- FIRE HYDRANT
- (A) STRUCTURE TO BE ADJUSTED
- (A) STRUCTURE TO BE ADJUSTED WITH NEW FRAME & LID
- (R) STRUCTURE TO BE RECONSTRUCTED
- (R) STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME & LID
- SEWER TO BE ABANDONED OR REMOVED. INCIDENTAL TO STORM SEWER CONSTRUCTION

STORM STRUCTURES

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT NORTH	INVERT SOUTH	INVERT EAST	INVERT WEST
S-1	2+81	103' LT	FRAMES AND LIDS, T1F, CL SPECIAL	650.24	-	-	-	-
S-2	2+81	43' LT	FRAMES AND LIDS T1F, CL SPECIAL	650.34	-	-	-	-
S-3	2+78	13' LT	MH TA 4' DIA T1F, CL	650.09	-	644.50	644.50	-
S-4	3+44	7' LT	MH TA 4' DIA T1F, CL	649.70	644.15	644.05	-	644.15
S-5	3+59	34' RT	CB TA 4' DIA T1F CL REMOVE CATCH BASIN	648.97		645.17	643.92	643.92
S-6	3+53	55' RT	TO MANHOLE	649.23	-	643.81	643.81	643.81
S-7	3+76	15' LT	INLETS, TA, T1F, CL REMOVE INLET	649.50	648.37	-	-	-
S-8	2+76	38' LT	CONTROL STRUCTURE	651.32	-	-	644.83	644.63

STORM SEWERS

PIPE NO.	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN.)	SLOPE %	TSF (CU.YD.)
P-1	20	DIP CLASS 52	1	12	0.50	19.0
P-2	89	SS RC CL A	1	12	0.50	54.7
P-3	45	SS RC CL A	1	12	0.50	34.2
P-4	31	SS RC CL A	1	24	0.50	8.1
P-5	32	SS RC CL A	1	15	1.00	9.6
P-6	8	DIP CLASS 52	1	12	0.50	10.3
P-7	9	SS RC CL A	1	12	0.50	1.0

SANITARY STRUCTURES

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT NORTH	INVERT SOUTH	INVERT EAST	INVERT WEST
S-1	2+24	40' LT	GREASE INTERCEPTOR 2 x 8	650.80	-	-	645.66	645.18
S-2	2+39	24' RT	ABANDON EXISTING SANITARY SERVICE		-	-	-	-

SANITARY SEWERS

PIPE NO.	LENGTH (FOOT)	MATERIAL	DIA. (IN.)	SLOPE %	TSF (CU.YD.)
S-1	79	PVC SDR 26	6	2.00	66.5
S-2	6	PVC SDR 26	6	1.00	4.5
S-3	15	PVC SDR 26	6	1.00	7.9

WATER MAIN STRUCTURES

STRUCT. NO.	STATION	OFFSET	DESCRIPTION	RIM
W-1	1+37	142.5' LT	PRESSURE CONNECTION 8"x8" VALVE VAULT, TYPE A, 5' DIA., T1F, CL	653.50
W-2	1+85	78' LT	FIRE HYDRANTS TO BE RELOCATED	
W-3	3+80	24.5' LT	ABANDON EXISTING WATER SERVICE	
W-4	3+73	24.5' LT	ADJUSTING WATER MAIN, 8"	

WATER MAIN PIPE

PIPE NO.	LENGTH (FOOT)	MATERIAL	DIA. (IN.)	TSF (CU.YD.)
P-1	78	DIP CL 52	8	8.5

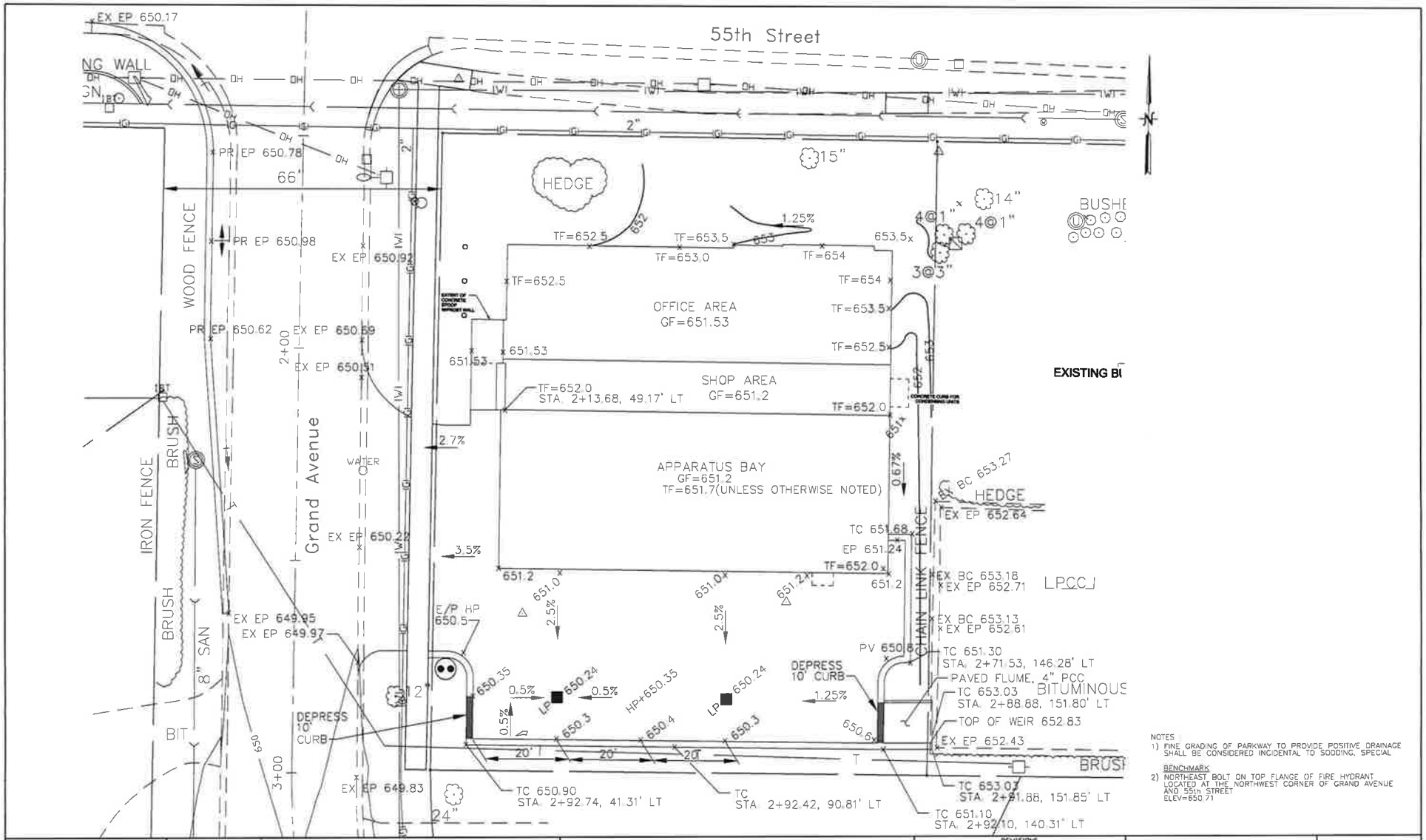
1) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE CONSIDERED INCIDENTAL TO SODDING, SPECIAL.

SCALES:
1" = 20' HOR
1" = 5' VER

EXISTING ELEVATION: 649.87 | 649.73 | 649.83 | 650.15 | 650.50 | 650.92 | 651.08 | 651.35
PROPOSED ELEVATION
4+50 | 4+00 | 3+50 | 3+00 | 2+50 | 2+00 | 1+50 | 1+00

660 655 650 645 640 635 630 625 620

DRAINAGE AND UTILITY PLAN DWG. 5 OF 33



DRAWN SMP
CHECKED NGN
DATE
SCALE 1"=10'

JAMES J. BENES & ASSOCIATES, INC.
950 Warrenville Road, Suite 101, Lisle, Illinois 60532
Tel. (630) 719-7570 · Fax (630) 719-7589

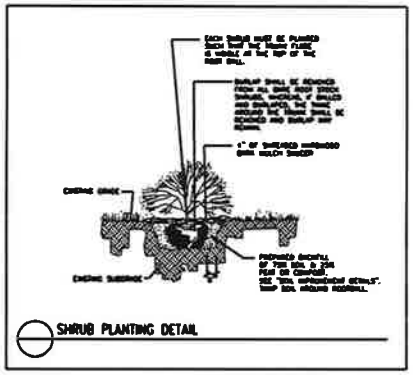
VILLAGE OF WESTERN SPRINGS

REVISIONS

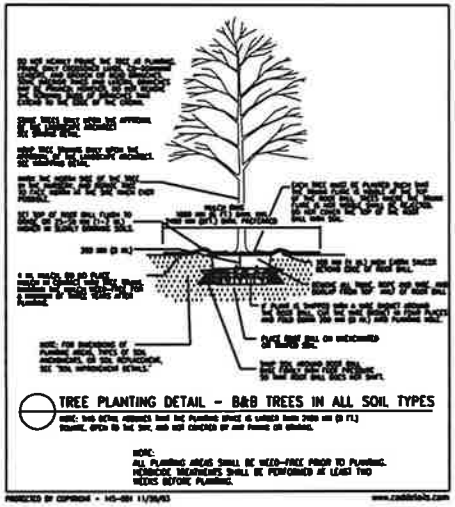
NO.	DATE	DESCRIPTION

GRADING PLAN

DRAWING NO. 6 OF 33

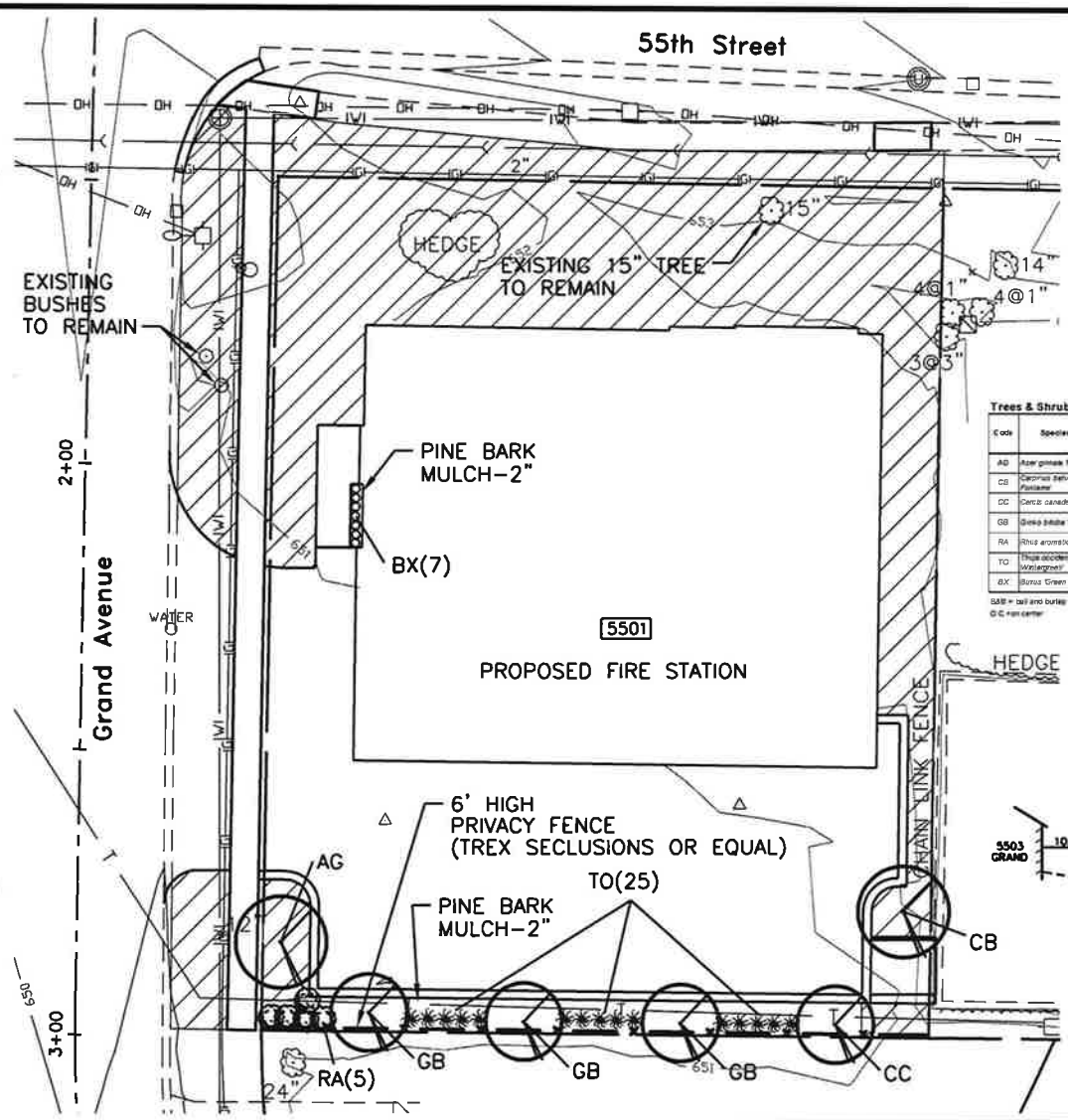


SHRUB PLANTING DETAIL



TREE PLANTING DETAIL - B&B TREES IN ALL SOIL TYPES

NOTE:
ALL PLANTING AREAS SHALL BE WEED-FREE PRIOR TO PLANTING. HERBICIDE TREATMENTS SHALL BE PERFORMED AT LEAST TWO WEEKS BEFORE PLANTING.



SODDING, SPECIAL

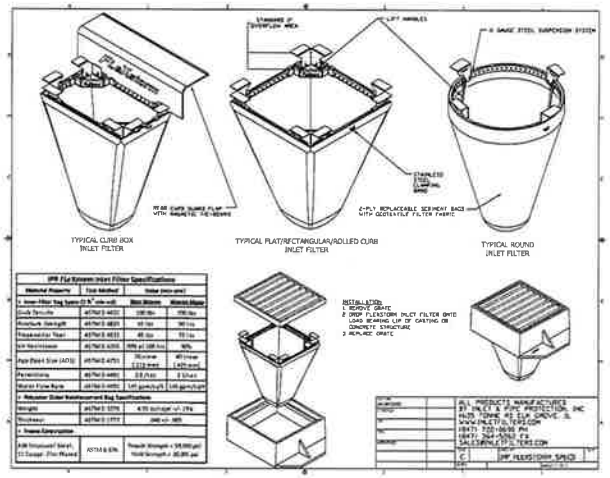
Trees & Shrubs

Code	Species Name	Common Name	Size	Quantity & Method
AG	Acer ginnala 'Flame'	FLAME AMUR MAPLE	7'	1 EACH - B&B
CB	Carpinus betulus 'Fastigiata'	HORNBEAM	3 1/2" cal	1 EACH - B&B
CC	Cercis canadensis	EASTERN RED BUD	8' ht	1 EACH - B&B
GB	Ginkgo biloba 'Princeton'	MAIDENHAIR TREE	2 1/2" cal	3 EACH - Male tree only, B&B
RA	Rhus aromatica 'Gro-Low'	FRAGRANT SUMAC	5 gal	5 EACH - 5 gal pot
TO	Thuja occidentalis 'Hetz Wintergreen'	WINTERGREEN ARBORVITAE	6' ht	25 EACH - B&B, install @ 3' O.C.
BX	Buxus 'Green Gem'	GREEN GEM BOXWOOD	2' ht	7 EACH - container grown

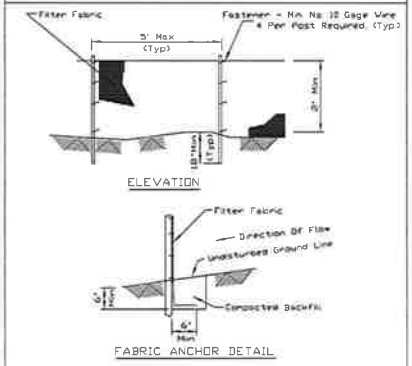
B&B = ball and burlap
O.C. = on center

TYPICAL SECTION - PARKING LOT

DRAWN: SMP	DATE: 8/04/09	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 - Fax (630) 719-7589	VILLAGE OF WESTERN SPRINGS	REVISIONS	LANDSCAPING PLAN
CHECKED: NGN	SCALE: 1"=10'				SHEET NO. 9 OF 33



SILT FENCE PLAN



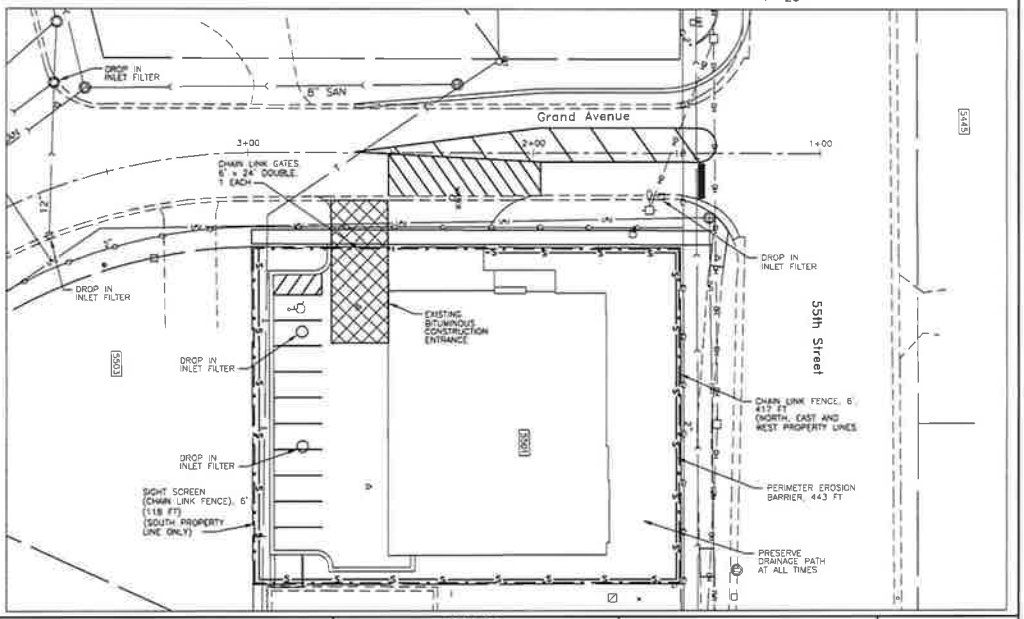
NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter Fabric shall meet the requirements of material specification 592 Geotextile Table I or 2, Class I with equivalent opening size of at least 30 for nonwoven and 50 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE
Project
Designed ____ Date
Checked ____ Date
Approved ____ Date

NRCS

STANDARD DWG. NO. IL-620
SHEET 1 OF 1
DATE 11-29-01

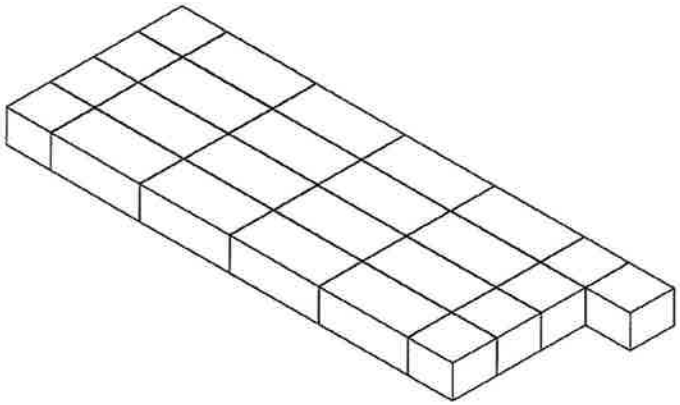
1"=20'



DRAWN: BCD CHECKED: NGN	DATE: SCALE:	JJB	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 · Fax (630) 719-7589	VILLAGE OF WESTERN SPRINGS	REVISIONS NO. DATE DESCRIPTION	STORM WATER POLLUTION PREVENTION PLAN	DRAWING NO. 11 OF 33

STORMTRAP® PATENTED

PRECAST CONCRETE MODULAR STORM WATER MANAGEMENT SYSTEMS



WESTERN SPRINGS FIRE STATION

WESTERN SPRINGS, IL

SHEET INDEX			
PAGE	DESCRIPTION		REV.
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2.2	SINGLETRAP INSTALLATION SPECIFICATIONS		1
3	LAYOUT DETAIL		1
3.1	SINGLE TRAP INSTALLATION SPECIFICATIONS		1
4	STANDARD - 4'-6" SINGLETRAP / FT	TYPE I	1
5	STANDARD - 4'-6" SINGLETRAP / FT	TYPE II	1
6	STANDARD - 4'-6" SINGLETRAP / FT	TYPE III	1
7	STANDARD - 4'-6" SINGLETRAP / FT	TYPE IV	1
8	STANDARD - 4'-6" SINGLETRAP / FT	TYPE V	1
9	STANDARD - 4'-6" SINGLETRAP / FT	TYPE VI	1
10	STANDARD - 4'-6" SINGLETRAP / FT	TYPE VII	1

JOB SITE INFORMATION	
DESCRIPTION	
JOB NAME:	WESTERN SPRINGS FIRE STATION
JOB ADDRESS:	WESTERN SPRINGS, IL
ENGINEERING CO:	JAMES J. BENES & ASSOCIATES
CONTACT NAME:	DAN SCHOENBERGER
CONTACT PHONE:	630-719-7570
CONTACT FAX:	630-719-7589
STORM TRAP SUPPLIER:	STORMTRAP
CONTACT NAME:	JERAMY SHERWOOD
CONTACT PHONE:	815-941-4663
CONTACT FAX:	815-416-1100
WATER STORAGE REQ'D:	6,000.00 CUBIC FEET
WATER STORAGE PROV:	8,046.50 CUBIC FEET
UNIT HEADROOM:	4'-6" SINGLETRAP
UNIT QUANTITY:	25 UNITS - 25 TOTAL PIECES

STORMTRAP
2495 WEST BUNGALOW ROAD
MORRIS, IL 60450
P: 815-941-4663
F: 815-416-1100

ENGINEER INFORMATION:

JAMES J. BENES & ASSOCIATES
950 WARRENVILLE ROAD
LISLE, IL 60532
Phone: 630-719-7570
Fax: 630-719-7589

PROJECT INFORMATION:

WESTERN SPRINGS FIRE STATION
WESTERN SPRINGS, IL
JS-2700-IL-07

CURRENT ISSUE DATE:

3/10/09

APPROVED BY:

ISSUED FOR:

PRELIMINARY

REV.:	DATE:	DESC.	BY:
1	3/10/09	ISSUED FOR PRELIMINARY	JS

SCALE:

NTS

SHEET TITLE:

COVER SHEET

SHEET NUMBER:

01

STORMTRAP INSTALLATION SPECIFICATION

1. STORMTRAP MODULES SHALL BE MANUFACTURED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET/ OUTLET PIPE OPENINGS.

2. STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891-90, STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRE-CAST CONCRETE UTILITY STRUCTURES. THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS SHALL APPLY:

   A. SPECIFICATIONS ON THE ENGINEER'S DRAWINGS SHALL TAKE PRECEDENCE.

   B. STORMTRAP MODULES SHALL BE PLACED ON LEVEL FOUNDATION (SEE SHEET 3.1) WITH A 1'-3" OVERHANG ON ALL SIDES THAT SHALL BE POURED IN PLACE BY INSTALLING CONTRACTOR.

   C. THE STORMTRAP MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADJACENT MODULES DOES NOT EXCEED 3/4". IF THE SPACE EXCEEDS 3/4", THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE INTO SPECIFICATION.

   D. THE PERIMETER HORIZONTAL JOINT OF THE STORMTRAP MODULES SHALL BE SEALED TO THE FOOTINGS WITH PREFORMED MASTIC JOINT SEALER ACCORDING TO ASTM C891-90, 6.8 AND 6.12.

   E. ALL EXTERIOR JOINTS BETWEEN ADJACENT STORMTRAP MODULES SHALL BE SEALED WITH PRE-FORMED, COLD-APPLIED, SELF-ADHERING ELASTOMERIC RESIN BONDED TO A WOVEN HIGHLY PUNCTURE RESISTANT POLYMER WRAP CONFORMING TO ASTM C891-90 AND SHALL BE 6"-8" INTEGRATED PRIMER SEALANT AS APPROVED BY STORMTRAP. THE ADHESIVE EXTERIOR JOINT WRAP SHALL BE INSTALLED ACCORDING TO THE FOLLOWING INSTALLATION INSTRUCTIONS:

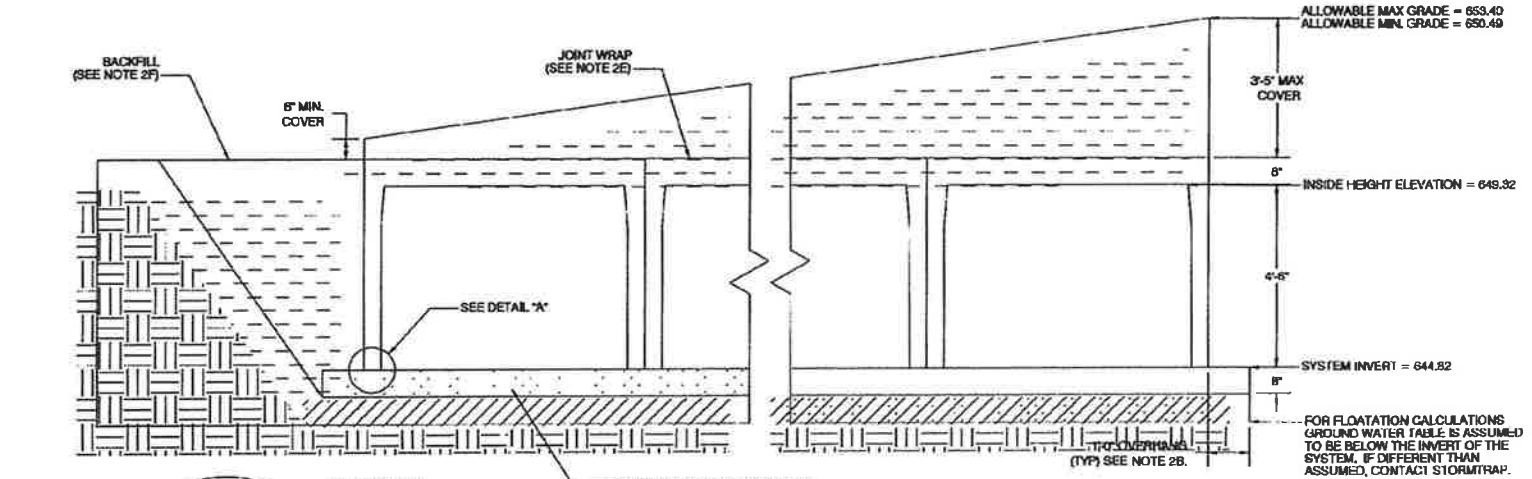
      1. USE A BRUSH OR WET CLOTH TO THOROUGHLY CLEAN THE OUTSIDE SURFACE AT THE POINT WHERE THE JOINT WRAP IS TO BE APPLIED.

      2. A RELEASE PAPER PROTECTS THE ADHESIVE SIDE OF THE JOINT WRAP. PLACE THE ADHESIVE TAPE (BUTYL SIDE DOWN) AROUND THE STRUCTURE, REMOVING THE RELEASE PAPER AS YOU GO. PRESS THE JOINT WRAP FIRMLY AGAINST THE STORMTRAP MODULE SURFACE WHEN APPLYING.

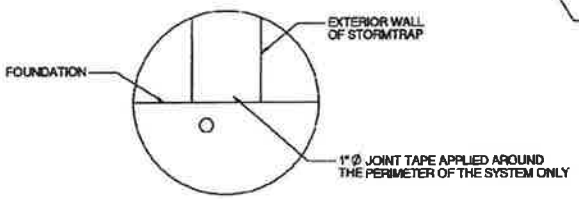
   F. THE FILL PLACED AROUND THE STORMTRAP UNITS MUST BE DEPOSITED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE WALL BE MORE THAN 2'-0" HIGHER THAN THE FILL ON THE OPPOSITE SIDE. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY OR OTHERWISE SPECIFIED BY ENGINEER. CARE SHALL BE TAKEN TO PREVENT ANY WEDGING ACTION AGAINST THE STRUCTURE, AND ALL SLOPES BOUNDING OR WITHIN THE AREA TO BE BACKFILLED MUST BE STEPPED OR SERRATED TO PREVENT WEDGE ACTION. (REFERENCE ARTICLE 502.10 I.D.O.T. S.S.R.B.C.) CARE SHALL ALSO BE TAKEN AS NOT TO DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACKFILL PROCESS. BACKFILL MATERIAL NOT TO EXCEED 120 PCF SOIL DENSITY OR 80 LBS PER FOOT OF LATERAL SATURATED PRESSURE. RECOMMENDED BACKFILL TO CONSIST OF 3/4" COARSE AGGREGATE STONE OR APPROVED EQUAL AND SHALL CONFORM TO THE ABOVE DENSITY/LATERAL SATURATED PRESSURE REQUIREMENTS.

STORMTRAP SPECIFICATION

1. TOTAL COVER: MIN. 0'-6" MAX. 3'-5" CONSULT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
2. CONCRETE CHAMBER DESIGNED FOR AASHTO HS-20 WHEEL LOAD & APPLICABLE IMPACT. MIN. SOIL PRESSURE 1,500 PSF.
3. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO STORMTRAP INSTALLATION.
4. FOR STRUCTURAL CALCULATIONS THE WATER TABLE IS ASSUMED TO BE 3'-0" BELOW GRADE. IF WATER TABLE IS LESS THAN 3'-0" BELOW GRADE, CONTACT STORMTRAP.
5. FOR STRUCTURAL CALCULATIONS THE SOIL DENSITY IS ASSUMED TO BE 120 PCF.
6. STORMTRAP IS NOT WATERTIGHT - PLEASE ADVISE IF A WATERTIGHT SOLUTION IS NEEDED.
7. STORMTRAP IS DESIGNED TO ALLOW LOADING FROM A FIRETRUCK GIVEN 75 PSI LOADING FROM A 2'-0" X 2'-0" OUTRIGGER PAD AND A MIN. OF 0'-6" OF COVER.



4'-6" SINGLETRAP



DETAIL "A"
JOINT TAPE INSTALLATION

STORMTRAP
2495 WEST BUNGALOW ROAD
MORRIS, IL 60450
P: 815-941-4663
F: 815-416-1100

ENGINEER INFORMATION:
JAMES J. BENES & ASSOCIATES
950 WARRENVILLE ROAD
LISLE, IL 60532
Phone: 630-719-7570
Fax: 630-719-7589

PROJECT INFORMATION:
WESTERN SPRINGS FIRE STATION
WESTERN SPRINGS, IL
JS-2700-IL-07

CURRENT ISSUE DATE:
3/10/09

APPROVED BY:

ISSUED FOR:
PRELIMINARY

REV.:	DATE:	DESC.	BY:
1	3/10/09	ISSUED FOR PRELIMINARY	JS

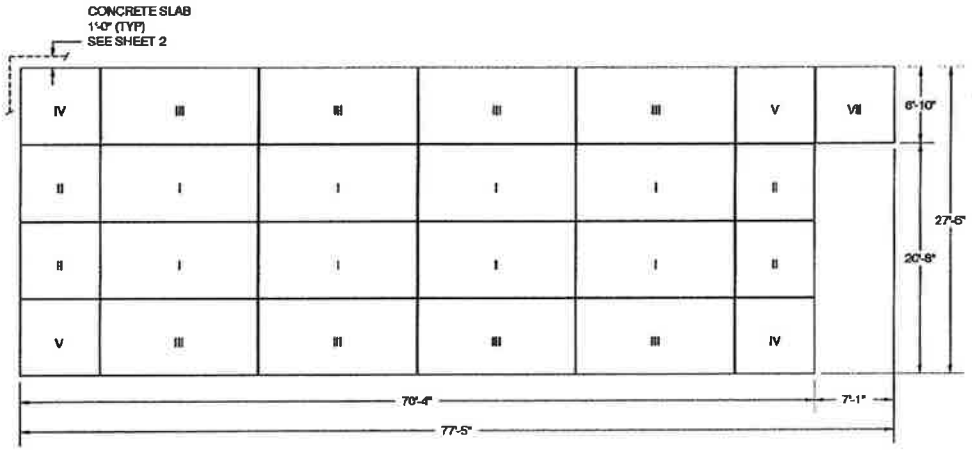
SCALE:

SHEET TITLE:
SINGLETRAP INSTALLATION SPECIFICATIONS

SHEET NUMBER:
02

BILL OF MATERIALS

QTY.	PART NO.	DESCRIPTION
8	TYPE I	4'-6" SINGLETRAP / FT TYPE I
4	TYPE II	4'-6" SINGLETRAP / FT TYPE II
8	TYPE III	4'-6" SINGLETRAP / FT TYPE III
2	TYPE IV	4'-6" SINGLETRAP / FT TYPE IV
2	TYPE V	4'-6" SINGLETRAP / FT TYPE V
0	TYPE VI	4'-6" SINGLETRAP / FT TYPE VI
1	TYPE VII	4'-6" SINGLETRAP / FT TYPE VII
17	JOINT TAPE	JOINT TAPE - 14.6' PER ROLL
4	JOINT WRAP	JOINT WRAP - 150' PER ROLL



NOTES:

1. DIMENSION OF STORMTRAP SYSTEM ALLOW FOR A 3/4" GAP BETWEEN EACH UNIT.
2. ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY OTHERS.
3. SEE SHEET 2 FOR INSTALLATION SPECIFICATIONS.

LAYOUT DETAIL

DESIGN CRITERIA

INSIDE HEIGHT ELEVATION = 649.32

ALLOWABLE
MIN GRADE = 650.49

ALLOWABLE
MAX GRADE = 653.40

SYSTEM INVERT = 644.82

STORMTRAP
VOLUME = 8,046.50 C.F. / 0.18 A.F.

STORMTRAP
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MORRIS, IL 60450
P: 815-941-4663
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SCALE:

NTS

SHEET TITLE:

LAYOUT DETAIL

SHEET NUMBER:

03

Solar Traffic Controls

Solar Powered Optical Detector-Transmitter

System Configurations

-Tomar STROBECOM compatible configuration

-OPTICOM compatible configuration

-A-pole type mount

-Band mount option

Features

-Sealed battery

-Self-contained system

-Standard optical detector assembly

-LED confirmation lamp for approaching vehicle

-Relatively maintenance free design

Benefits

-Solar power eliminates utility connection

-Quick and affordable to deploy

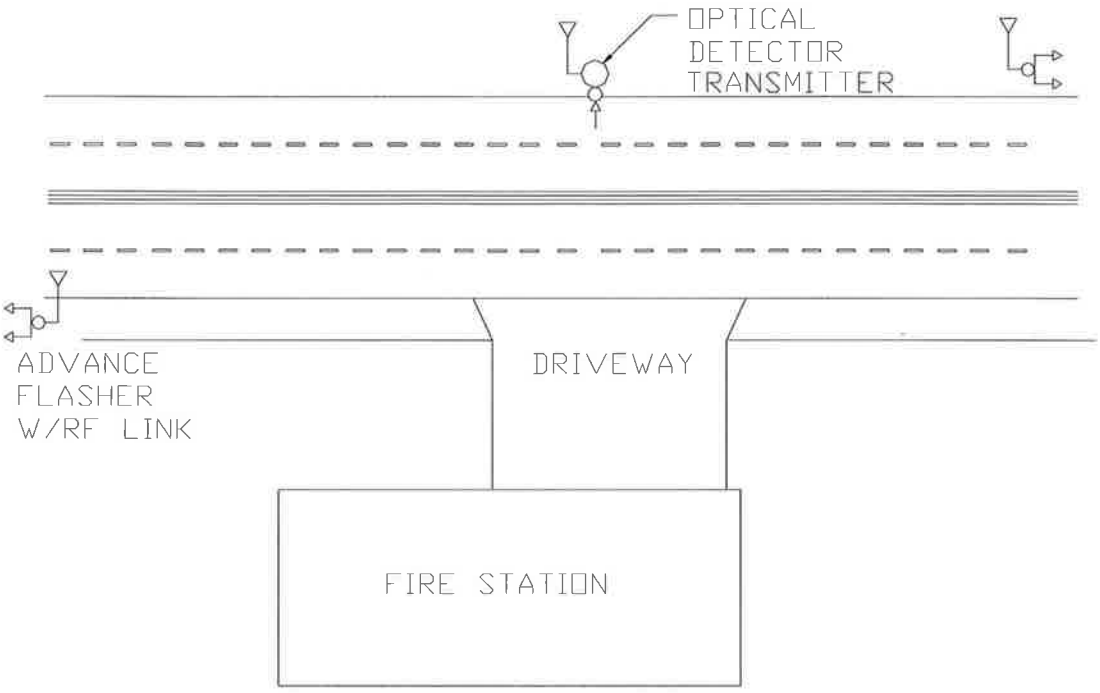
-Turns on advance warning signals automatically based on truck mounted emitter

-Green technology that improves public safety

Solar Traffic Controls, L.L.C
E: info@solar-traffic-controls.com
T: 480-449-0222 F: 480-449-9367

Applications

Placed at the end of or across the street from a fire station driveway, this unit alleviates the need to press any buttons to transmit a signal to advance flashers. Truck drivers simply turn on their optical emitters and the Optical Detector Transmitter (ODTX) radios down the street to activate the advance warning beacon system. The ODTX can easily be integrated into systems using either the Type 1 or Type 2 warning beacon systems from STC. Systems are self-contained and can function for years with little or no maintenance. In most cases maintenance will involve replacing the battery every 5-7 years.



About Solar Traffic

Solar Traffic Controls (STC) designs and manufactures solar-powered traffic control systems for city, state and federal DOT's across North America. Our primary products are solar-powered flashing beacons for school zones, emergency vehicle, and 24-hour applications. We also supply specialized flasher systems using environmental sensors and custom communications packages to enable remote control.

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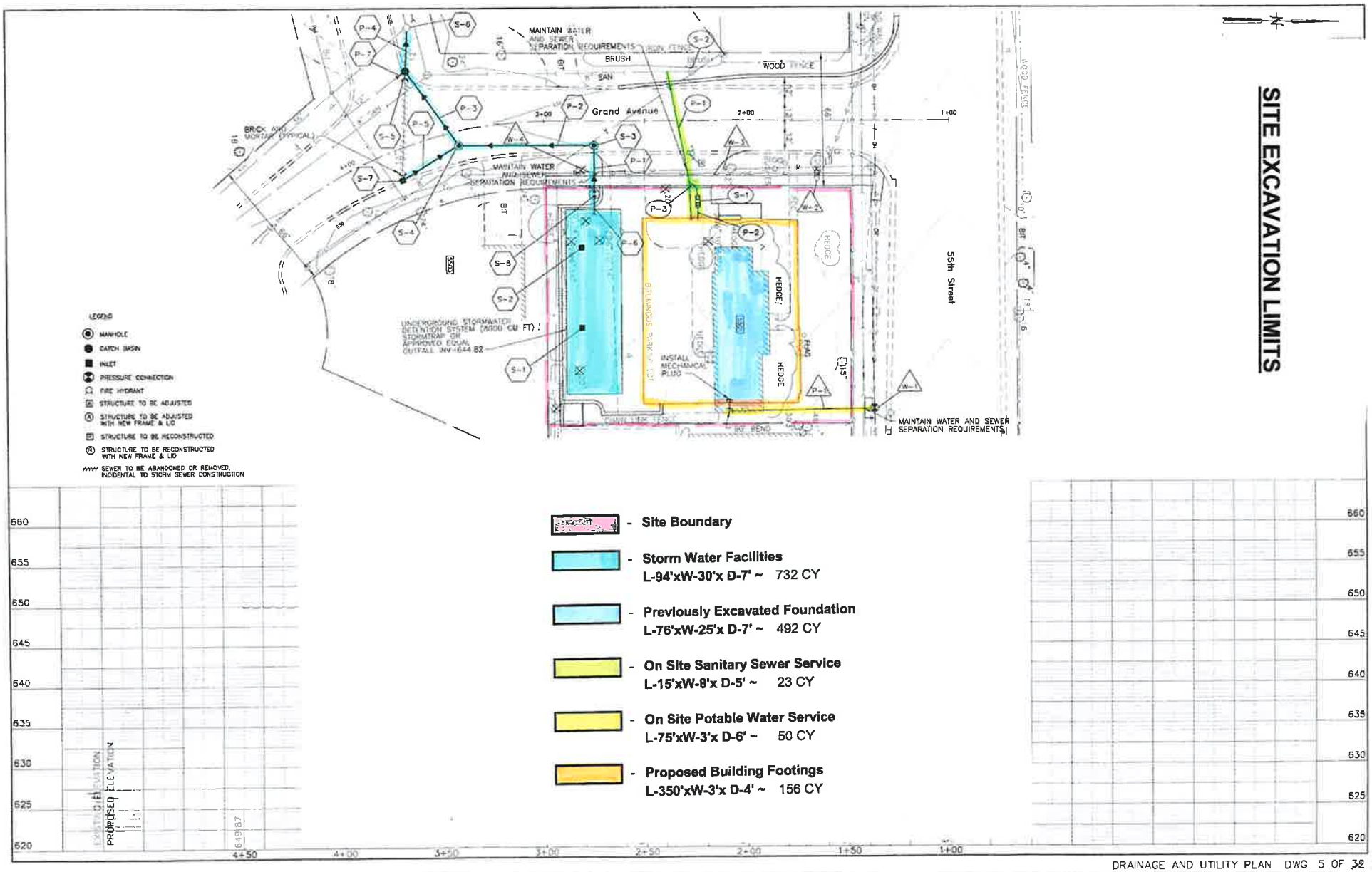
SITE EXCAVATION LIMITS
Grand Avenue
55th Street
MAINTAIN WATER AND SEWER SEPARATION REQUIREMENTS
UNDERGROUND STORMWATER DETENTION SYSTEM (3000 CU FT) OR APPROVED EQUAL OUTFALL INV=644.82
INSTALL MECHANICAL PLUG
MAINTAIN WATER AND SEWER SEPARATION REQUIREMENTS
LEGEND
MANHOLE
CATCH BASIN
INLET
PRESSURE CONNECTION
FIRE HYDRANT
STRUCTURE TO BE ADJUSTED
STRUCTURE TO BE ADJUSTED WITH NEW FRAME & LID
STRUCTURE TO BE RECONSTRUCTED
STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME & LID
SEWER TO BE ABANDONED OR REMOVED, INCIDENTAL TO STORM SEWER CONSTRUCTION
- Site Boundary
- Storm Water Facilities
L-94'xW-30'x D-7' ~ 732 CY
- Previously Excavated Foundation
L-76'xW-25'x D-7' ~ 492 CY
- On Site Sanitary Sewer Service
L-15'xW-8'x D-5' ~ 23 CY
- On Site Potable Water Service
L-75'xW-3'x D-6' ~ 50 CY
- Proposed Building Footings
L-350'xW-3'x D-4' ~ 156 CY
EXISTING GROUND ELEVATION
PROPOSED ELEVATION
649.87
660
655
650
645
640
635
630
625
620
4+50
4+00
3+50
3+00
2+50
2+00
1+50
1+00