

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
4677 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL (248) 332-7931
FAX (248) 332-8257

SEAL

PROJECT
Premier Academy

CLIENT
JS Capitol Group
945 S. Rochester Road
Rochester Hills, MI 48308
Contact: Paul Dunn
Phone: (248) 249-4911

LEGAL DESCRIPTION: PER TITLE COMMITMENT

Land situated in the City of Rochester Hills, County of Oakland, State of Michigan, more particularly described as:
 PARCEL 1: Part of the Northeast 1/4 of Section 8, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County, Michigan, beginning at Northwest Section corner, thence South 88 degrees 59 minutes 00 seconds East 333.56 feet; thence South 01 degrees 14 minutes 37 seconds West 234.03 feet; thence North 89 degrees 29 minutes 00 seconds West 332.57 feet; thence North 01 degrees 00 minutes 00 seconds East 237.42 feet to beginning, except the Eastern 100 feet, also except North 60 feet of the West 90 feet and the South 20 feet of North 80 feet of West 60 feet taken for road.
 APN: 15-08-100-021
 PARCEL 2: Part of the Northwest 1/4 of Section 8, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County, Michigan, being the Eastern 100 feet of the following described parcel: beginning at Northwest Section corner, thence South 88 degrees 59 minutes 00 seconds East 333.56 feet; thence South 01 degrees 14 minutes 37 seconds West 234.03 feet; thence North 89 degrees 29 minutes 00 seconds West 332.57 feet; thence North 01 degrees 00 minutes 00 seconds East 237.42 feet to beginning.
 APN: 15-08-100-022

LEGAL DESCRIPTION: TOTAL PARCEL AS SURVEYED

PART OF THE NW 1/4 OF SECTION 8, 13N, R.11E, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN; BEING DESCRIBED AS BEGINS AT THE NW CORNER OF SAID SECTION 8, THENCE S. 88° 59' 00" E., 333.56 FEET ALONG THE NORTH LINE OF SAID SECTION 8, THENCE S. 01° 14' 37" W., 234.03 FEET; THENCE N. 89° 29' 00" W., 332.57 FEET; THENCE N. 01° 00' 00" E., 237.42 FEET TO THE POINT OF BEGINNING, EXCEPT THE EAST 100.00 FEET, ALSO EXCEPT THE NORTH 60.00 FEET OF THE WEST 90.00 FEET AND THE SOUTH 20.00 FEET OF THE NORTH 80.00 FEET TAKEN FOR ROAD PURPOSES, CONTAINING NET 58,666 SQUARE FEET OR 1.347 ACRES.
 ADDRESS: 974 N. ADAMS ROAD, ROCHESTER HILLS, MI 48309-1105
 APN: 15-08-100-021 & 15-08-100-022

SNOW NOTE

SURVEY COMPLETED UNDER EXTREME SNOW CONDITIONS, AND EXACT LOCATION OF PARADELTS, CURBS, AND SURFACE STRUCTURES CANNOT BE GUARANTEED.

TOPOGRAPHIC SURVEY NOTES

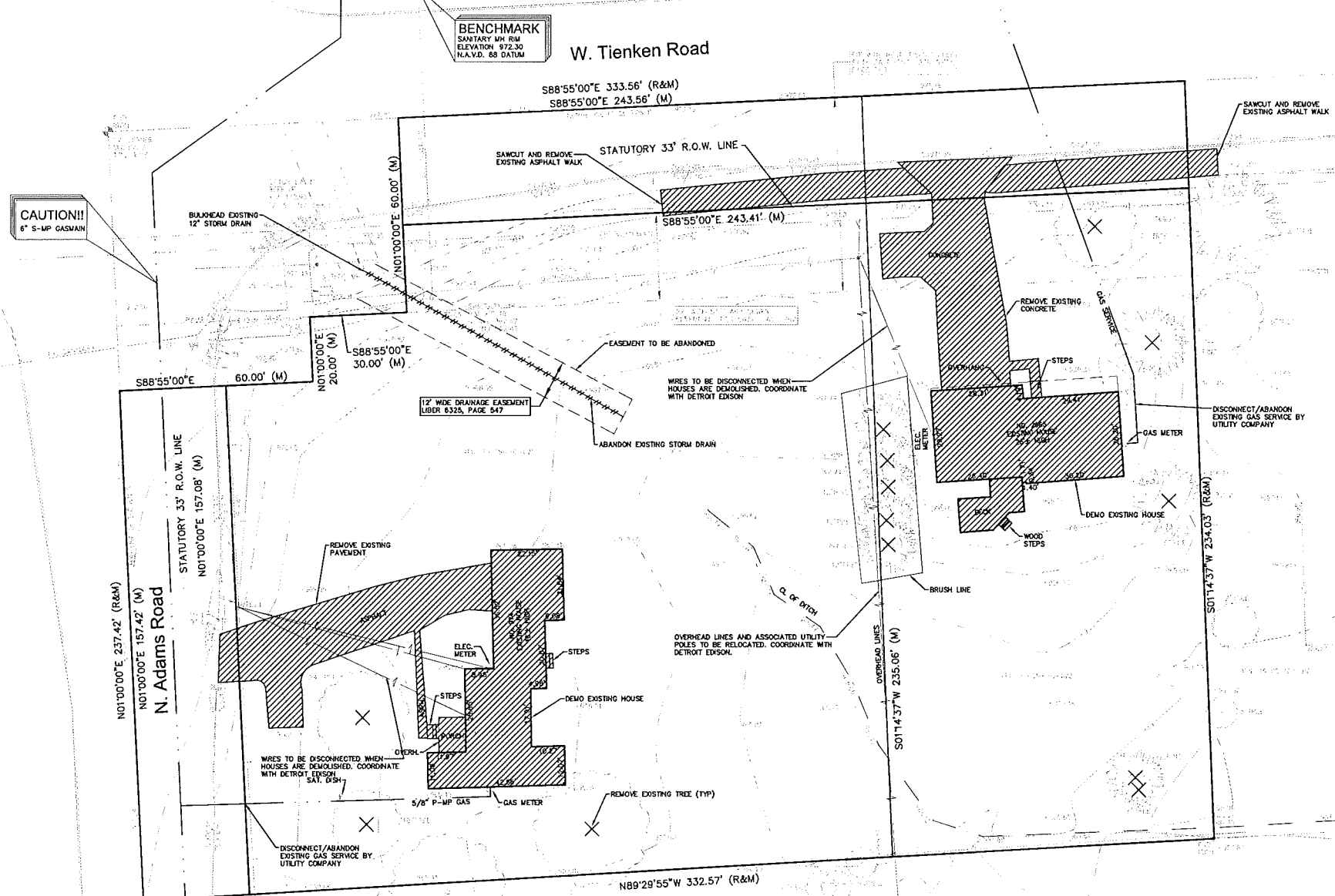
ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.
 UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.
 THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER.

LEGEND	
	EXISTING SANITARY SEWER
	EXISTING SAN. CLEAN OUT
	EXISTING WATER MAIN
	EXISTING STORM SEWER
	EK. R.Y. CATCH BASIN
	EXISTING BURIED CABLES
	OVERHEAD LINES
	LIGHT POLE
	SNOW
	EXISTING GAS MAIN

REVISIONS
7-17-17 SPA

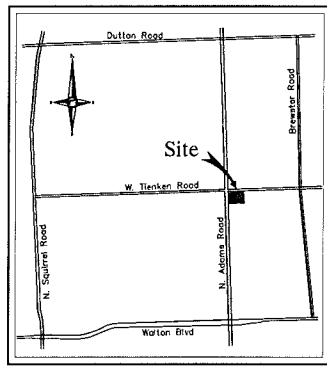
DRAWN BY:
N. Naoum
DESIGNED BY:

APPROVED BY:
K. Navaroli
DATE:
06-02-2017
SCALE: 1" = 20'
NFE JOB NO. SHEET NO.
J580 C1

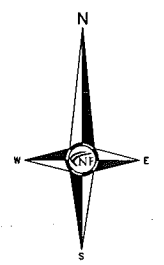


CAUTION!!
6" S-MP GAS MAIN

BENCHMARK
SANITARY W/ R/W
ELEVATION 872.30
N.A.V.D. 88 DATUM



Location Map
N.T.S.



DEMOLITION NOTES

DEMOLITION OF SITE IMPROVEMENTS SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE PUBLIC AGENCY HAVING JURISDICTION OVER SAID DEMOLITION.

FOR ANY DEMOLITION WITHIN PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR, AND SECURE, ALL NECESSARY PERMITS AND LICENSES AND SHALL ARRANGE FOR ALL SITE INSPECTIONS.

SITE DEMOLITION INCLUDES THE COMPLETE REMOVAL OF SITE IMPROVEMENTS AND OFF-SITE DISPOSAL. DEBRIS SHALL BE TRANSPORTED TO AN APPROPRIATE DISPOSAL FACILITY THAT IS LICENSED FOR THAT TYPE OF DEBRIS.

THE CONTRACTOR SHALL COORDINATE TRUCK ROUTES WITH THE MUNICIPALITY PRIOR TO COMMENCEMENT OF SITE DEMOLITION. ALL TRUCKS SHALL BE TARPED OR PROPERLY SECURED TO CONTAIN DEMOLITION DEBRIS PRIOR TO LEAVING SITE.

EXISTING ON-SITE UNDERGROUND UTILITIES AND BUILDING SERVICES HAVE BEEN INDICATED BASED UPON THE BEST AVAILABLE UTILITY RECORDS AND/OR ON-SITE INSPECTION. NO GUARANTEE IS MADE BY THE DESIGN ENGINEER, AS TO THE COMPLETENESS OR ACCURACY OF UTILITY DATA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF UTILITY INFORMATION (THE DESIGN ENGINEER MAKES NO GUARANTEE NOR ASSUMES ANY LIABILITY AS TO THE COMPLETENESS AND/OR ACCURACY OF UTILITY DATA).

PRIOR TO THE REMOVAL OR ABANDONMENT OF ANY EXISTING UNDERGROUND UTILITY OR BUILDING SERVICE LINES CALLED FOR IN THE PLANS OR DISCOVERED DURING EXCAVATION, THE CONTRACTOR MUST DETERMINE IF THE UTILITY LINE OR BUILDING SERVICE IS STILL IN USE. IF THE UTILITY LINE OR BUILDING SERVICE IS STILL IN USE/ACTIVE, THE CONTRACTOR MUST TAKE ALL THE NECESSARY STEPS TO GUARANTEE THAT THE UTILITY LINE OR BUILDING SERVICE IS RECONNECTED WITHOUT AN INTERRUPTION IN SERVICE. THE RECONNECTION OF THE UTILITY LINE OR BUILDING SERVICE MUST BE IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF THE APPROPRIATE GOVERNMENTAL AGENCY OR PRIVATE UTILITY COMPANY.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO SITE DEMOLITION.

* THE CONTRACTOR SHALL NOTIFY MISS DIO (1-800-482-7171) A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF THE SITE DEMOLITION.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH CONSUMERS ENERGY/MICHIGAN. REMOVAL OF DETROIT EDISON ELECTRICAL SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF DETROIT EDISON.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH CONSUMERS ENERGY/MICHIGAN. REMOVAL OF CONSUMERS ENERGY/MICHIGAN GAS SERVICES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF CONSUMERS ENERGY/MICHIGAN.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH AMERITECH. REMOVAL OF AMERITECH COMMUNICATION SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF AMERITECH.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH THE APPROPRIATE CABLE/WIRE COMPANY. REMOVAL OF CABLE SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF THE CABLE COMPANY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF PRIVATE UTILITY COMPANIES AND COORDINATE UTILITY SERVICE SHUT OFF/DISCONNECT, PRIOR TO DEMOLITION OF EXISTING STRUCTURES OR PROPERTIES.

ALL UTILITY METERS SHALL BE REMOVED BY THE APPROPRIATE UTILITY COMPANY.

ANY ON-SITE STORM SEWER FACILITIES LOCATED DURING DEMOLITION SHALL BE REMOVED AND BLANK HEADED AT THE PROPERTY LINE IF INDICATED FOR REMOVAL ON THE PLANS.

PRIOR TO BUILDING DEMOLITION, ALL HAZARDOUS MATERIAL SHALL BE REMOVED BY OTHERS. THE DEMOLITION CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUSPICIOUS MATERIAL BE FOUND.

WATER SERVICES AND/OR STOP-BOX SHALL BE PRESERVED AND BLANK HEADED AT THE PROPERTY LINE OR AS DIRECTED BY THE OWNER'S REPRESENTATION.

WHERE EXISTING BUILDINGS PLANNED FOR DEMOLITION FALL WITHIN PROPOSED BUILDING FOOT PRINTS, BASEMENT FLOOR SLABS, FOUNDATION WALLS AND FOOTINGS SHALL BE COMPLETELY REMOVED AND BACK FILLED WITH MOIST CLASS II GRANULAR MATERIAL AND BE MACHINE COMPACTED TO A MINIMUM OF 95% OF MATERIALS MAXIMUM DENSITY.

TOPOGRAPHIC SURVEY NOTES

ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.

UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.

THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN APPLICABLE TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER.

LEGEND

	MANHOLE	EXISTING SANITARY SEWER
	HYDRANT	EXISTING SANI. CLEAN OUT
	GATE VALVE	EXISTING WATER MAIN
	MANHOLE CATCH BASIN	EXISTING STORM SEWER
	EX. R. Y. CATCH BASIN	
	UTILITY POLE	EXISTING BURIED CABLES
	GUY WIRE	OVERHEAD LINES
	LIGHT POLE	
	SIGN	
	EXISTING GAS MAIN	
	EXISTING UTILITY TO BE REMOVED	
	EXISTING UTILITY TO BE ABANDONED	
	INDICATES EXISTING TREE TO BE REMOVED	
	INDICATES AREAS OF PAVEMENT, BUILDINGS, ETC. TO BE REMOVED	

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City of Rochester Hills,
Oakland County, Michigan

SHEET
Demolition Plan



REVISIONS
7-7-17 SPA

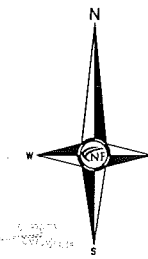
DRAWN BY:
M. Kurmas
DESIGNED BY:
M. Kurmas
APPROVED BY:
M. Peterson
DATE:
07-07-2017

SCALE: 1" = 20'

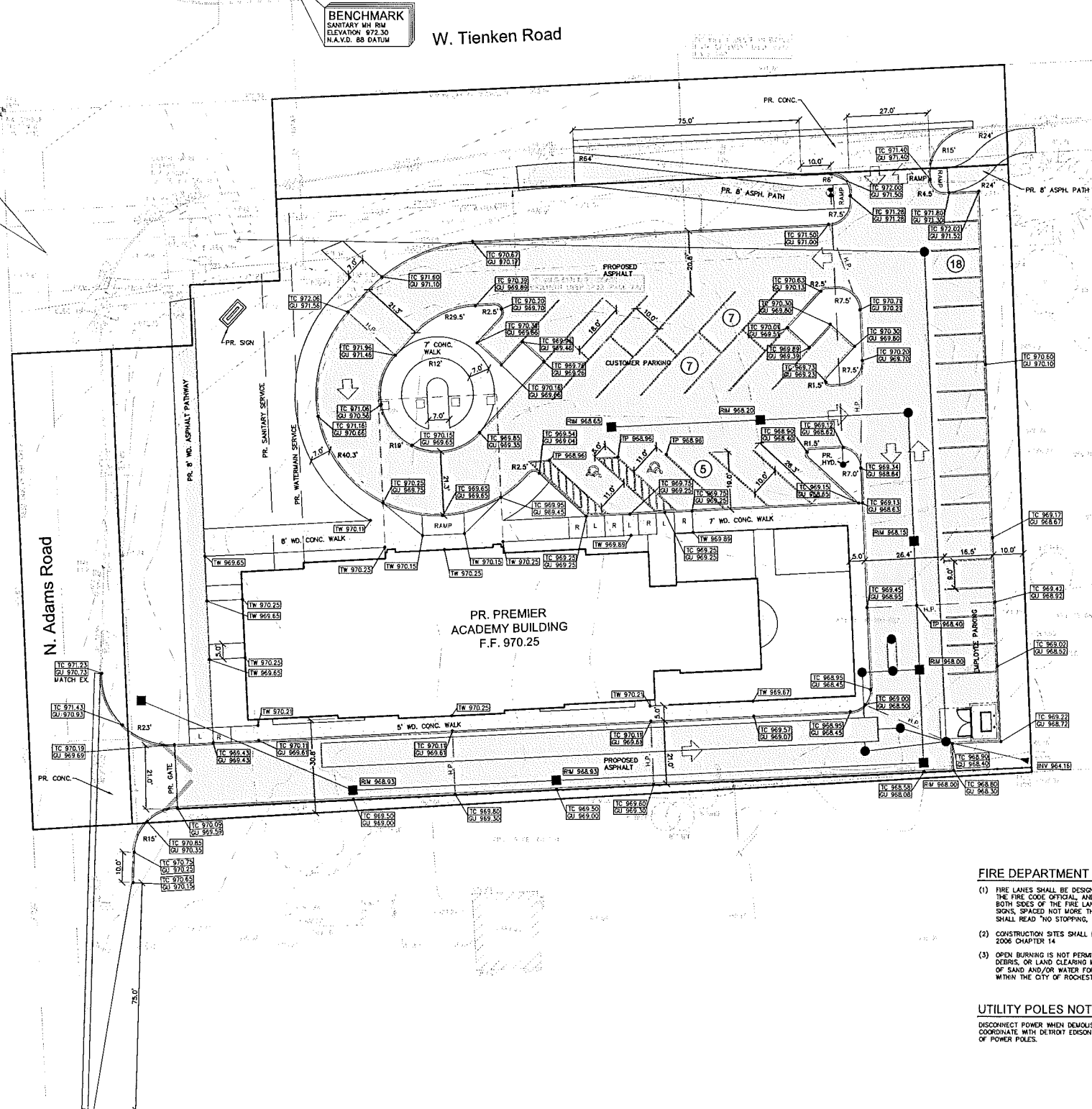
NFE JOB NO. SHEET NO.
J580 C2



Location Map
N.T.S.



CAUTION!!
6" S-MP GASMAN



GENERAL PAVING NOTES

PAYMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:

CONCRETE: PORTLAND CEMENT TYPE IA (AIR-ENTRAINED) WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES.

ASPHALT: BASE COURSE - MDOT BITUMINOUS MIXTURE NO. 1100L, 20% ASPHALT CEMENT PENETRATION GRADE 65-100, BOND COAT - MDOT SS-1H EMULSION AT 0.10 GALLON PER SQUARE YARD, MINIMUM 2 INCH LIFT.

PAYMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (WOODED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB-BASE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.

ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT FOUNDED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS-5164.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.

ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS.

CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKewise ARRANGE FOR ALL INSPECTION.

EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS.

EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADI.

SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.

ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.

FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 95% OF THE MAXIMUM DENSITY (WOODED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.

ESTIMATED QUANTITIES

DESCRIPTION	QUANTITY	UNITS
4" ASPHALT ON 6" 21AA BASE	2,785	S.Y.
4" ASPHALT ON 4" 21AA BASE	248	S.Y.
CONCRETE SIDEWALK	5,550	S.F.
8" NON-REINFORCED CONCRETE	22	S.F.
6" CONCRETE CURB & GUTTER	1,662	L.F.
8" CONCRETE APPROACH	288	S.Y.
M.O.D.T. DRIVEWAY OPENING DETAIL "U"	277	L.F.

PAVING LEGEND

	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT PAVEMENT

LEGEND

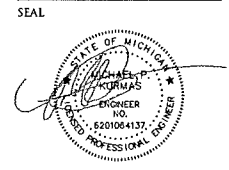
	MANHOLE	EXISTING SANITARY SEWER
	HYDRANT	SAN. CLEAN OUT
	GATE VALVE	EXISTING WATERMAIN
	MANHOLE CATCH BASIN	EXISTING STORM SEWER
	EX. R. Y. CATCH BASIN	EXISTING BURIED CABLES
	UTILITY POLE	EXISTING BURIED CABLES
	GUY WRE	OVERHEAD LINES
	LIGHT POLE	EXISTING GAS MAIN
	SGN	PR. SANITARY SEWER
	C.O. MANHOLE	PR. WATER MAIN
	HYDRANT	PR. STORM SEWER
	INLET	PR. R. Y. CATCH BASIN
	PROPOSED LIGHT POLE	
	PR. TOP OF CURB ELEVATION	
	PR. TOP OF WALK ELEVATION	
	PR. TOP OF PMNT. ELEVATION	
	FG 600.00	FINISH GRADE ELEVATION

FIRE DEPARTMENT NOTES

- (1) FIRE LANES SHALL BE DESIGNATED BY THE FIRE CODE OPTIONAL, AND SHALL BE CONSPICUOUSLY POSTED ON BOTH SIDES OF THE FIRE LANE, WITH FIRE LANE SIGNS, SPACED NOT MORE THAN 100 FEET APART. FIRE LANE SIGNS SHALL READ "NO STOPPING, STANDING, PARKING, FIRE LANE"
- (2) CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC CODE CHAPTER 14.
- (3) OPEN BURNING IS NOT PERMITTED INCLUDING THE BURNING OF TRASH, DEBRIS, OR LAND CLEARING MATERIALS. OPEN BURNING FOR WARMING OF SAND AND/OR WATER FOR PREPARATION OF MORTAR SHALL BE WITHIN THE CITY OF ROCHESTER HILLS BURN PERMIT GUIDELINES.

UTILITY POLES NOTE

DISCONNECT POWER WHEN DEMOLISHING THE HOUSES COORDINATE WITH DETROIT EDSON THE RELOCATION OF POWER POLES.



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Phone: (248) 249-4911

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of Section 8
T.3N., R.11E.
City of Rochester Hills,
Oakland County, Michigan

SHEET
Paving and Grading Plan

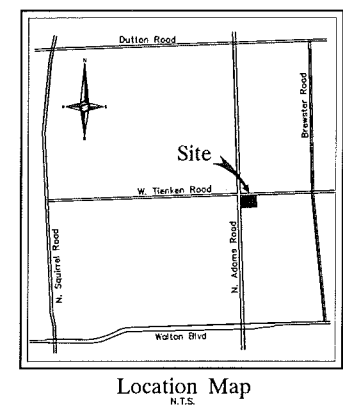
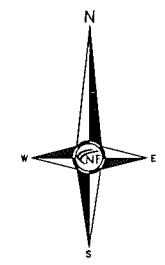
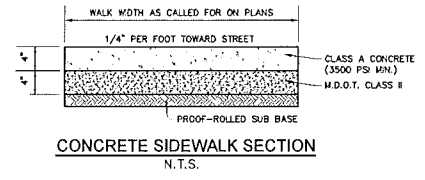
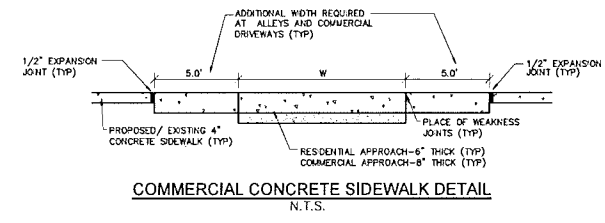
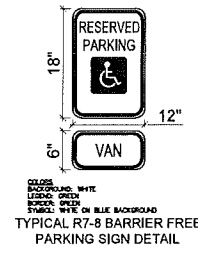


REVISIONS
7-7-17 SPA

DRAWN BY:
M. Kurmas
DESIGNED BY:
M. Kurmas
APPROVED BY:
M. Peterson
DATE:
07-07-2017

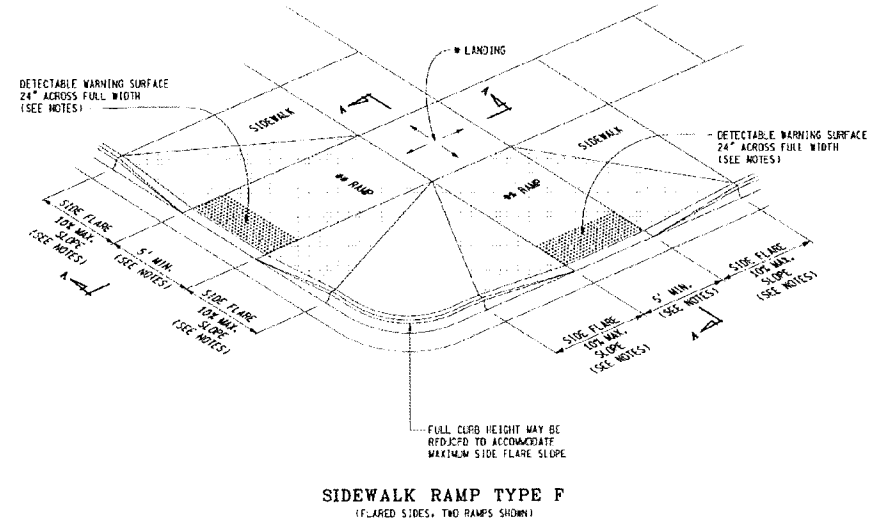
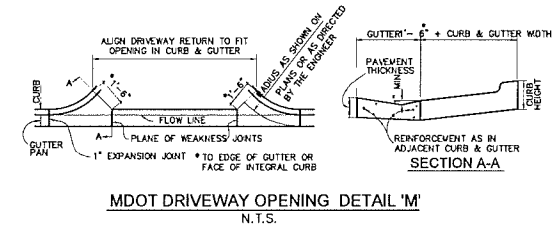
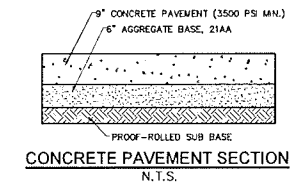
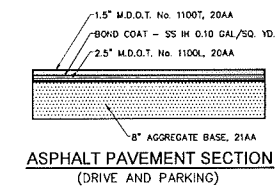
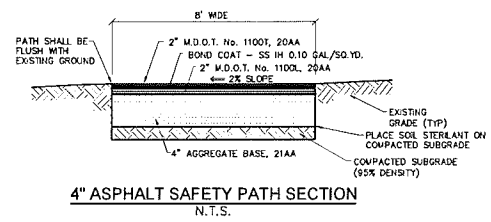
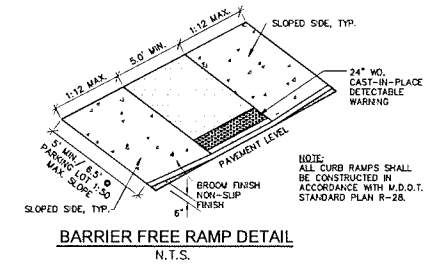
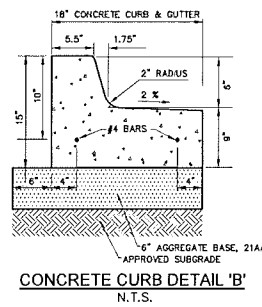
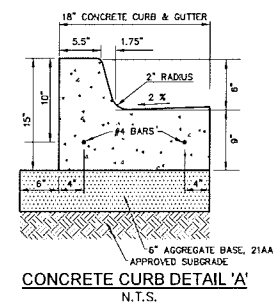
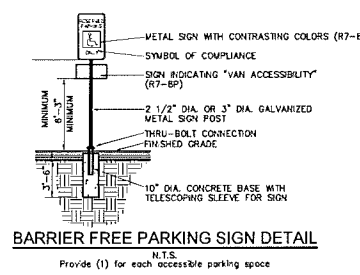
SCALE: 1" = 20'

NFE JOB NO. SHEET NO.
J580 C3



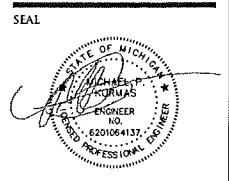
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MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. MINIMUM DIMENSIONS 5' x 5'. SEE NOTES.

MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE IS 1% (0.3% MAXIMUM). SEE NOTES.



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Details Plan



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7-7-17	SPA

DRAWN BY:
M. Kurmas

DESIGNED BY:
M. Kurmas

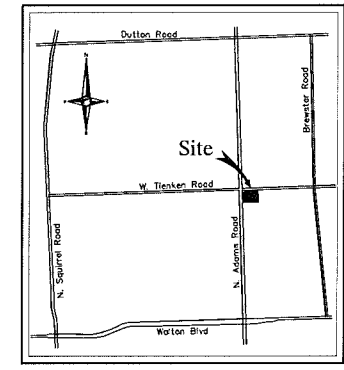
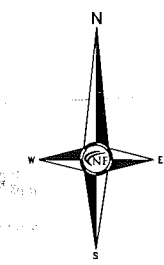
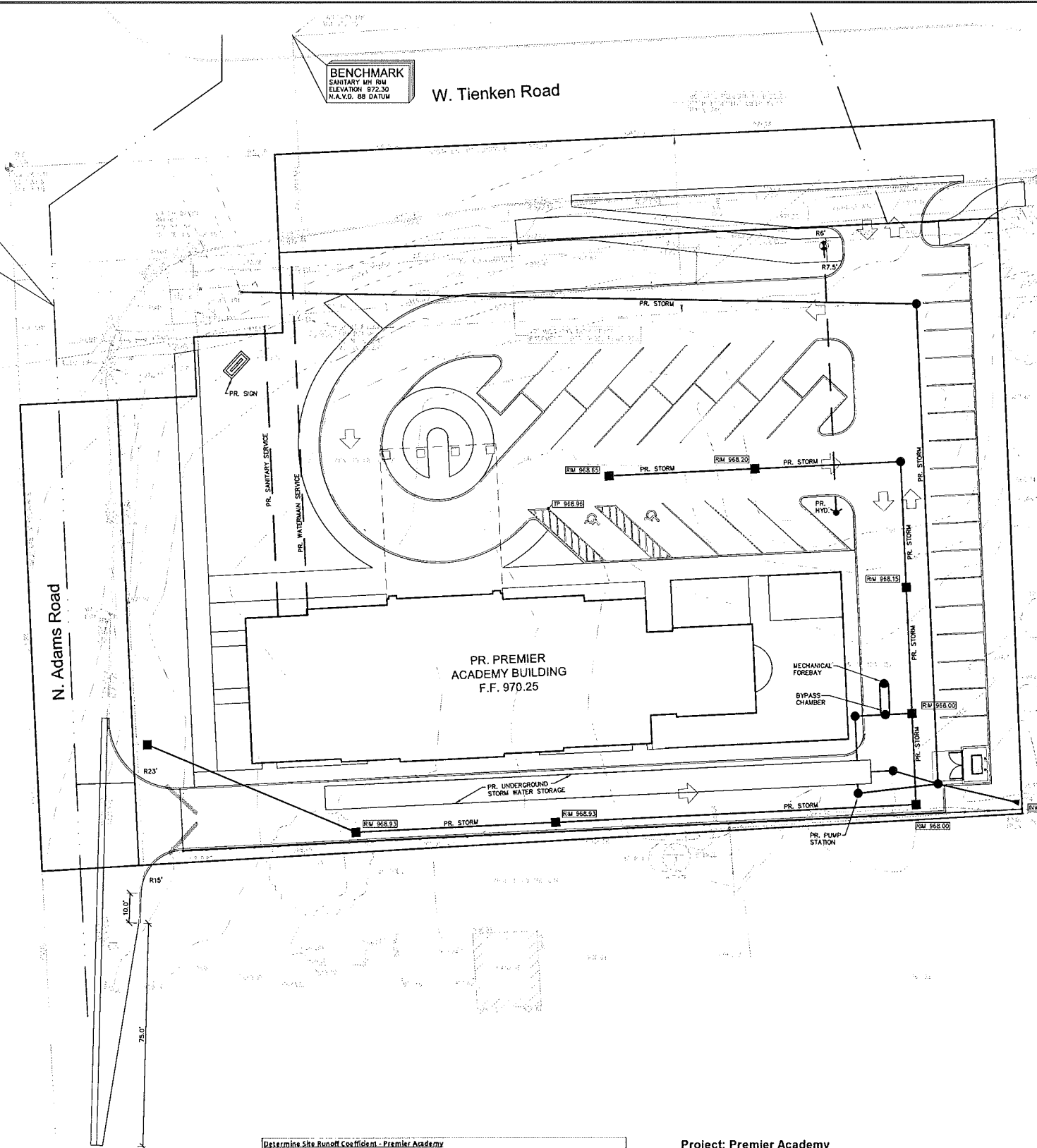
APPROVED BY:
M. Peterson

DATE:
07-07-2017

SCALE: N.T.S.

CAUTION!!
6" S-MP GASMAIN

BENCHMARK
SANITARY MH RM
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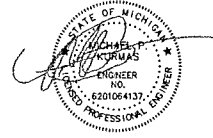


Location Map
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ESTIMATED QUANTITIES

STORM SEWER

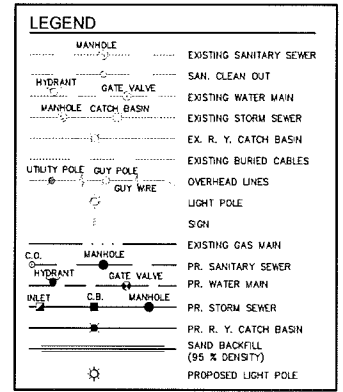
DESCRIPTION	QUANTITY	UNITS
12" C-76, CLASS IV, SEWER PIPE	949	L.F.
96" CORRUGATED METAL PIPE	185	L.F.
MECHANICAL FOREBAY	1	EA.
BYPASS CHAMBER	1	EA.
PUMP STATION	1	EA.
4' DIA. CATCH BASIN W/ 2' SUWP	7	EA.
4' DIA. MANHOLE	6	EA.
2' DIA. INLET	1	EA.
SEWER TAP/CONNECTION	1	EA.

SANITARY SEWER

DESCRIPTION	QUANTITY	UNITS
6" PVC, SDR 23.5, BUILDING LEAD	98	L.F.
SEWER TAP/CONNECTION	1	EA.

WATER MAIN

DESCRIPTION	QUANTITY	UNITS
6" D.I., CLASS 54, WATER MAIN	91	L.F.
2" X COPPER BUILDING SERVICE	118	L.F.
6" HORIZONTAL ASSEMBLY	1	EA.
8"x6" TAPPING SLEEVE G.V. & WELL	1	EA.
WATER MAIN CONNECTION	1	EA.



SHEET
Utility Plan



REVISIONS

NO.	DATE	DESCRIPTION
1	7-7-12 SPA	

DRAWN BY:
M. Kurmas
DESIGNED BY:
M. Kurmas
APPROVED BY:
M. Peterson

DATE:
07-07-2017

SCALE: 1" = 20'

NFE JOB NO. SHEET NO.
J580 C4

Determine Site Runoff Coefficient - Premier Academy

Proposed Land Use:	Runoff Coefficient:	Drainage Area:	Acres
Pavement	0.95	0.760	Acres
Building	0.95	0.190	Acres
Landscape / Open Space:	0.20	0.397	Acres
Detention Basin	1.00	0.000	Acres
Total Acreage:		1.347	Acres
Weighted Runoff Coefficient "C" Factor =		0.729	

Project: Premier Academy
Date: 07/05/17

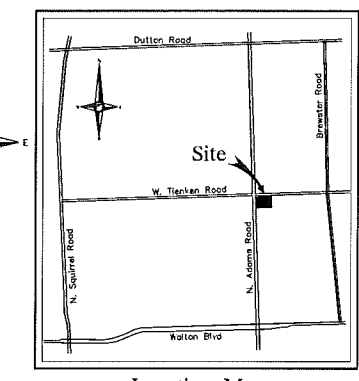
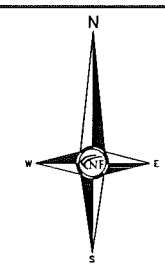
DETENTION CALCULATION 25 YEAR STORM PER OAKLAND COUNTY STANDARDS

ALLOWABLE DISCHARGE AREA
RUNOFF COEFF

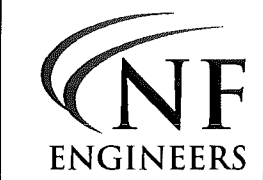
C1 = 0.20 CFS/ACRE
A = 1.347 ACRES
C = 0.729

TOTAL ALLOWABLE DISCHARGE
ALLOWABLE OUTFLOW
PEAK STORAGE TIME
MAX. STORAGE VOLUME/ACRE
TOTAL STORAGE REQUIRED
TOTAL STORAGE PROVIDED

QA = C1 x A = 0.27 CFS
Q0 = QA / (A x C) = 0.27 CFS/ACRE
T = 25 * (SQRT(8062.5 / Q0)) = 146.43 MINUTES
VS = (12900 x T / (T + 25)) - (40 x Q0 x T) = 9411.85 CU.FT./ACRE
VT = VS x A x C = 9242.09 CU.FT.
9299.00 CU.FT.

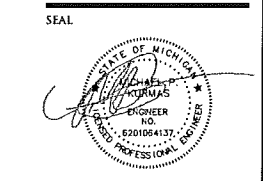


Location Map
N.T.S.



CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257



PROJECT
Premier Academy

CLIENT
JS Capitol Group
945 S. Rochester Road
Rochester Hills, MI 48308
Contact: Paul Dunn
Phone: (248) 249-4911

PROJECT LOCATION
Part of the NE 1/4
of Section 8
T.3N., R.11E.
City of Rochester Hills,
Oakland County, Michigan

SHEET
Fire Plan



REVISIONS
7-7-17 SPA
7-21-17 SPA

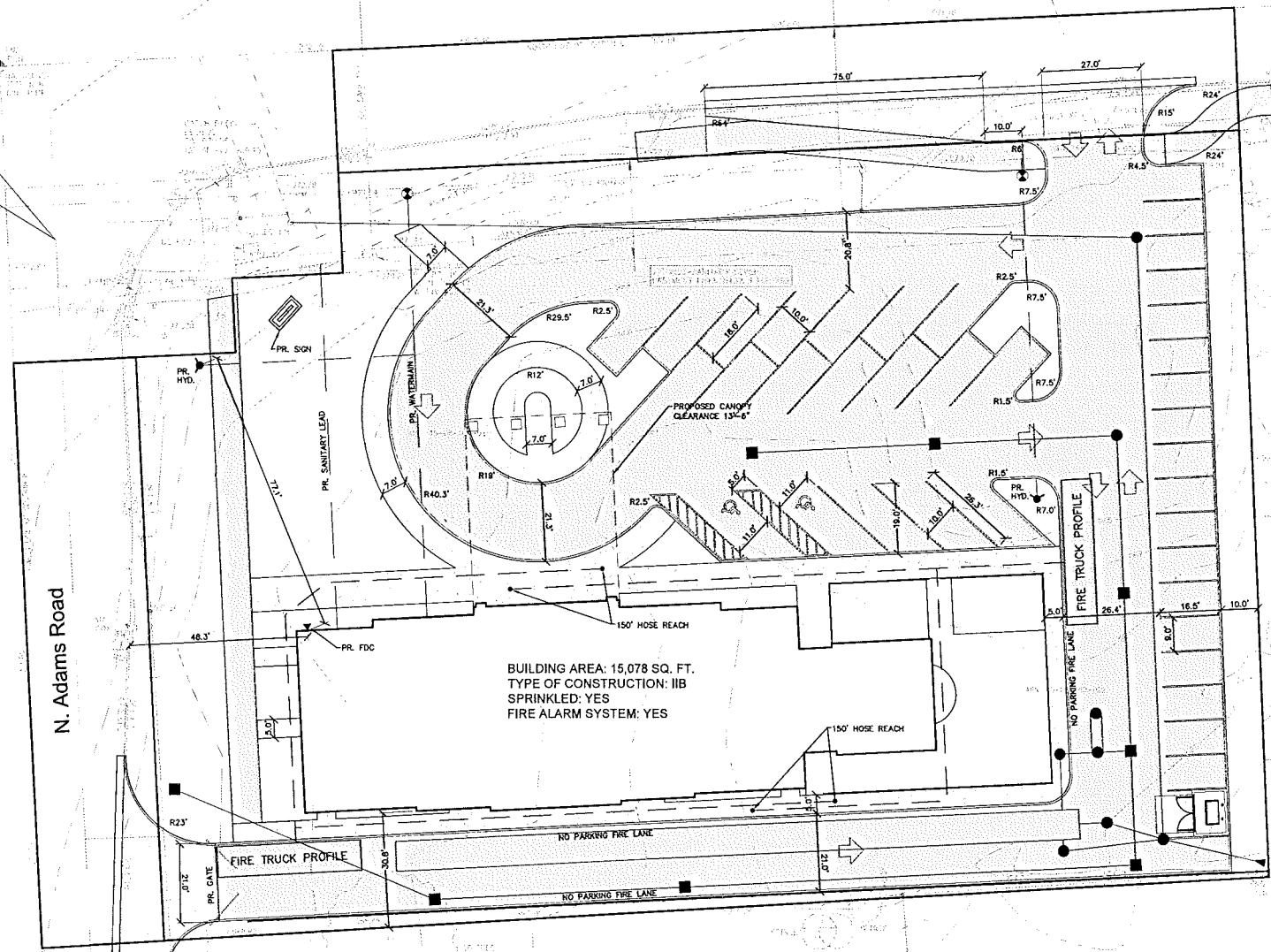
DRAWN BY:
M. Kurmas
DESIGNED BY:
M. Kurmas
APPROVED BY:
M. Peterson
DATE:
07-21-2017

SCALE: 1" = 20'
NFE JOB NO. SHEET NO.
J580 C7

CAUTION!!!
6" S-UP CASMAN

BENCHMARK
SANITARY 44 RSM
ELEVATION 972.50
N.A.V.D. 88 DATUM

W. Tienken Road



BUILDING AREA: 15,078 SQ. FT.
TYPE OF CONSTRUCTION: IIB
SPRINKLED: YES
FIRE ALARM SYSTEM: YES

FIRE DEPARTMENT NOTES

- (1) FIRE LANES SHALL BE DESIGNATED BY THE FIRE CODE OFFICIAL AND SHALL BE CONSPICUOUSLY POSTED ON BOTH SIDES OF THE FIRE LANE, WITH FIRE LANE SIGNS, SPACED NOT MORE THAN 100 FEET APART. FIRE LANE SIGNS SHALL READ "NO STOPPING, STANDING, PARKING, FIRE LANE"
- (2) CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC 2006 CHAPTER 14
- (3) OPEN BURNING IS NOT PERMITTED INCLUDING THE BURNING OF TRASH, DEBRIS, OR LAND CLEARING MATERIALS. OPEN BURNING FOR WARMING OF SAND AND/OR WATER FOR PREPARATION OF MORTAR SHALL BE WITHIN THE CITY OF ROCHESTER HILLS BURN PERMIT GUIDELINES.
- (4) A KNOX KEY SYSTEM SHALL BE INSTALLED, IN A LOCATION APPROVED BY THE FIRE CODE OFFICIAL. ORDERING INFORMATION IS AVAILABLE FROM THE KNOX COMPANY AT KNOXBOX.COM.
- (5) PROVIDE A "NO PARKING FIRE DEPARTMENT CONNECTION" SIGN OVER THE FIRE DEPARTMENT CONNECTION.
- (6) A KNOX PAD LOCK SHALL BE INSTALLED ON PROPOSED GATE.
- (7) SEE SHEET C3.1 FOR UNDERGROUND DETENTION STRUCTURAL CHECK.
- (8) PROVIDE A "NO PARKING FIRE DEPARTMENT CONNECTION" SIGN OVER THE FIRE DEPARTMENT CONNECTION.
- (9) A KNOX PADLOCK SHALL BE INSTALLED ON PROPOSED GATE.

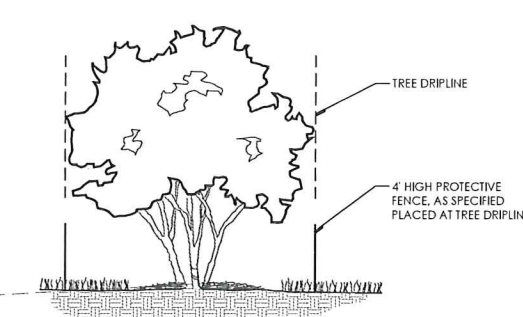
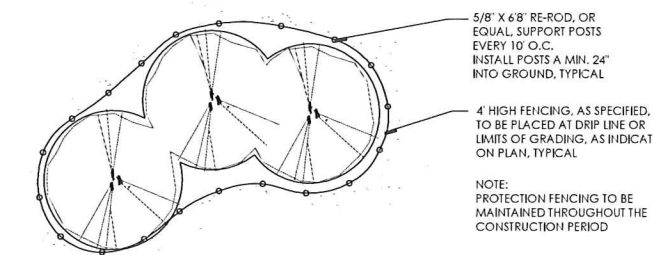
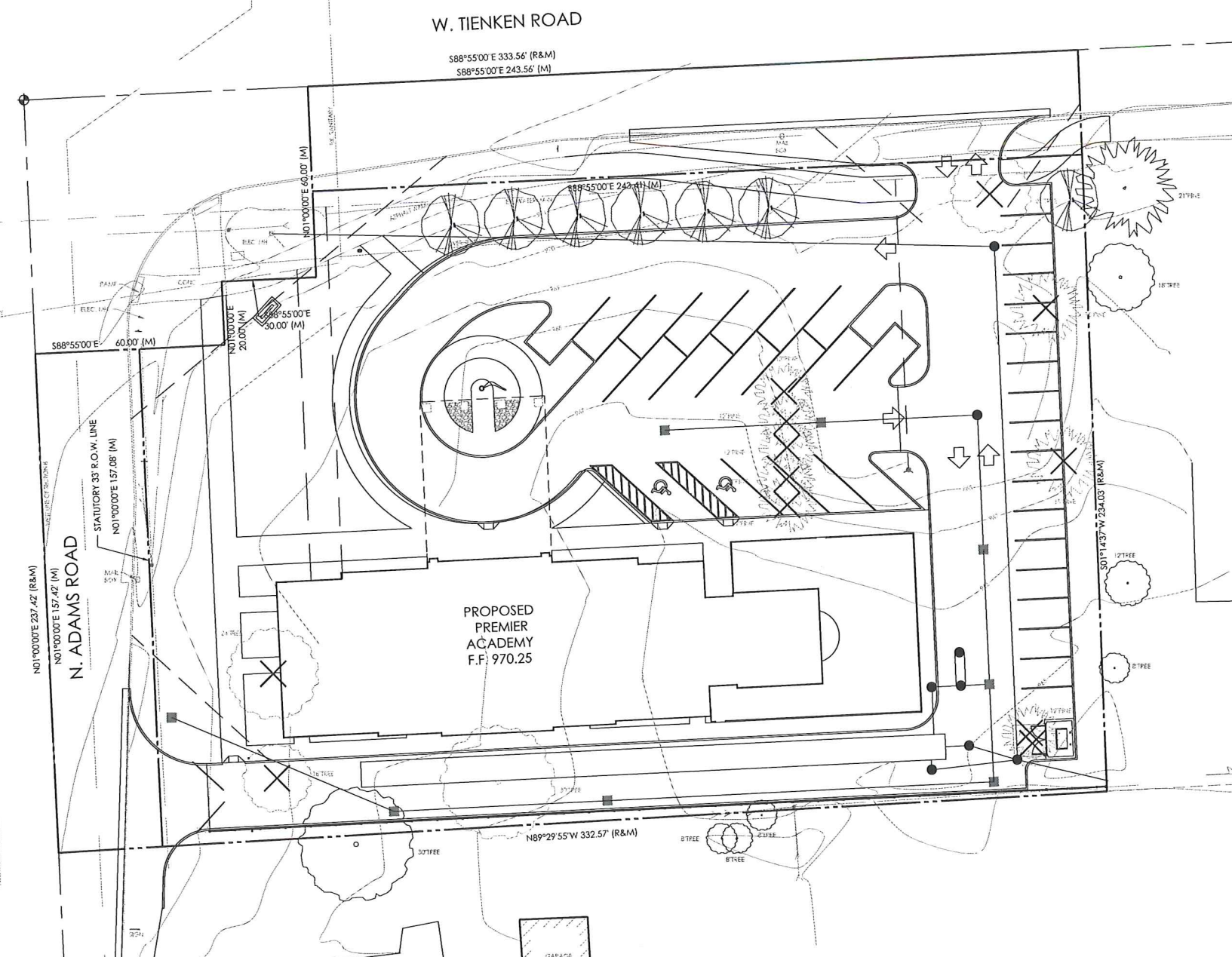
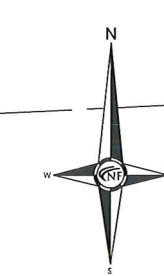
PAVING LEGEND

	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT PAVEMENT

LEGEND

	MANHOLE	EXISTING SANITARY SEWER
	HYDRANT	SAN. CLEAN OUT
	MANHOLE	EXISTING WATERMAIN
	MANHOLE	EXISTING STORM SEWER
	UTILITY POLE	EX. R. Y. CATCH BASIN
	UTILITY POLE	EXISTING BURIED CABLES
	UTILITY POLE	OVERHEAD LINES
	UTILITY POLE	GUY WIRE
	UTILITY POLE	LIGHT POLE
	UTILITY POLE	SIGN
	UTILITY POLE	EXISTING GAS MAIN
	PR. MANHOLE	PR. SANITARY SEWER
	PR. HYDRANT	PR. WATER MAIN
	PR. INLET	PR. STORM SEWER
	PR. INLET	PR. R. Y. CATCH BASIN
	PR. INLET	PROPOSED LIGHT POLE
	PR. INLET	PR. TOP OF CURB ELEVATION
	PR. INLET	PR. GUTTER ELEVATION
	PR. INLET	PR. TOP OF WALK ELEVATION
	PR. INLET	PR. TOP OF PAVT. ELEVATION
	PR. INLET	FINISH GRADE ELEVATION

City File #17-018



GENERAL TREE PROTECTION NOTES

- APPROVED TREE PROTECTION SHALL BE ERECTED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, AND SHALL REMAIN IN PLACE UNTIL THE IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
- ALL UNDERSTORY VEGETATION WITHIN THE LIMITS OF PROTECTIVE FENCING SHALL BE PRESERVED.
- NO PERSON MAY CONDUCT ANY ACTIVITY WITHIN THE DRIP LINE OF ANY TREE DESIGNATED TO REMAIN, INCLUDING BUT NOT LIMITED TO, PLACING SOLVENTS, BUILDING MATERIALS, CONSTRUCTION EQUIPMENT, OR SOIL DEPOSITS WITHIN THE DRIP LINE.
- WHERE GROUNDRINGS OF TREES ARE TO REMAIN, TREE FENCING SHALL BE PLACED AT THE LIMITS OF GRADING LINE.
- DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE TO ANY TREE SCHEDULED TO REMAIN.
- ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL OCCUR OUTSIDE OF THE PROTECTIVE FENCING.
- SWALES SHALL BE ROUTED TO AVOID THE AREA WITHIN THE DRIP LINES OF PROTECTED TREES.
- TREES LOCATED ON ADJACENT PROPERTIES THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES MUST BE PROTECTED.
- ROOT ZONES OF PROTECTED TREES SHOULD BE SURROUNDED WITH RIGIDLY STAKED FENCING.
- THE PARKING OF IDLE AND RUNNING EQUIPMENT SHALL BE PROHIBITED UNDER THE DRIP LINE OF PROTECTED TREES.
- THE STRIPPING OF TOPSOIL FROM AROUND PROTECTED TREES SHALL BE PROHIBITED.
- ALL TREES TO BE REMOVED SHALL BE CUT AWAY FROM TREES TO REMAIN.
- THE GRUBBING OF UNDERSTORY VEGETATION WITHIN CONSTRUCTION AREAS SHOULD BE CLEARED BY CUTTING VEGETATION AT THE GROUND WITH A CHAIN SAW OR MANUALLY WITH A HYDRO-AXE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT PER ORDINANCE GUIDELINES, FOR THE DAMAGE OR REMOVAL OF ANY TREE DESIGNATED TO REMAIN. TREES TO BE REMOVED SHALL BE FIELD VERIFIED, EVALUATED AND FLAGGED FOR REMOVAL BY THE LANDSCAPE ARCHITECT OR FORESTER, ONLY AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.

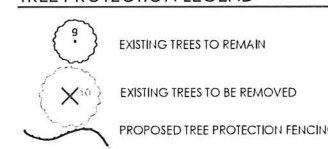
TREE PRESERVATION SUMMARY

TREES ≥ 6" DBH SHALL BE REPLACED AT 1:1

2" CAL. DECIDUOUS = 1 CREDIT
2.5" CAL. DECIDUOUS = 1.5 CREDIT
3" CAL. DECIDUOUS = 2 CREDITS
8" HT. EVERGREEN = 1 CREDIT
10" HT. EVERGREEN = 2 CREDITS

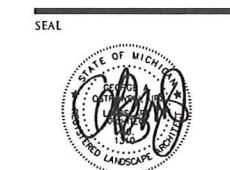
TOTAL TREES SURVEYED:	12
TOTAL DEAD TREES ON-SITE:	0
TOTAL NET REGULATED TREES:	12
TOTAL TREES TO BE SAVED:	0
TOTAL TREES TO BE REMOVED:	12
TOTAL REPLACEMENT CREDITS REQUIRED:	12
TOTAL REPLACEMENT CREDITS PROVIDED:	12 (6 TREES X 2 CREDITS)

TREE PROTECTION LEGEND



NOTE:
NO DIGGING, GRADING (CUT OR FILL), TRENCHING OR ANY OTHER CONSTRUCTION OPERATION IS PERMITTED WITHIN THE DRIPLINE OF ANY TREE DESIGNATED FOR PRESERVATION.

NOTE:
SEE SHEET L2, LANDSCAPE PLAN FOR PROPOSED TREE REPLACEMENT LOCATIONS



PROJECT
Premier Academy

CLIENT
JS Capitol Group
945 S. Rochester Road
Rochester Hills, MI 48308
Contact: Paul Dunn
Phone: (248) 249-4911

PROJECT LOCATION
Part of the NE ¼ of Section 8
T.3N., R.11E.
City of Rochester Hills,
Oakland County, Michigan

SHEET
Tree Preservation Plan



REVISIONS

DRAWN BY:
G. Ostrowski

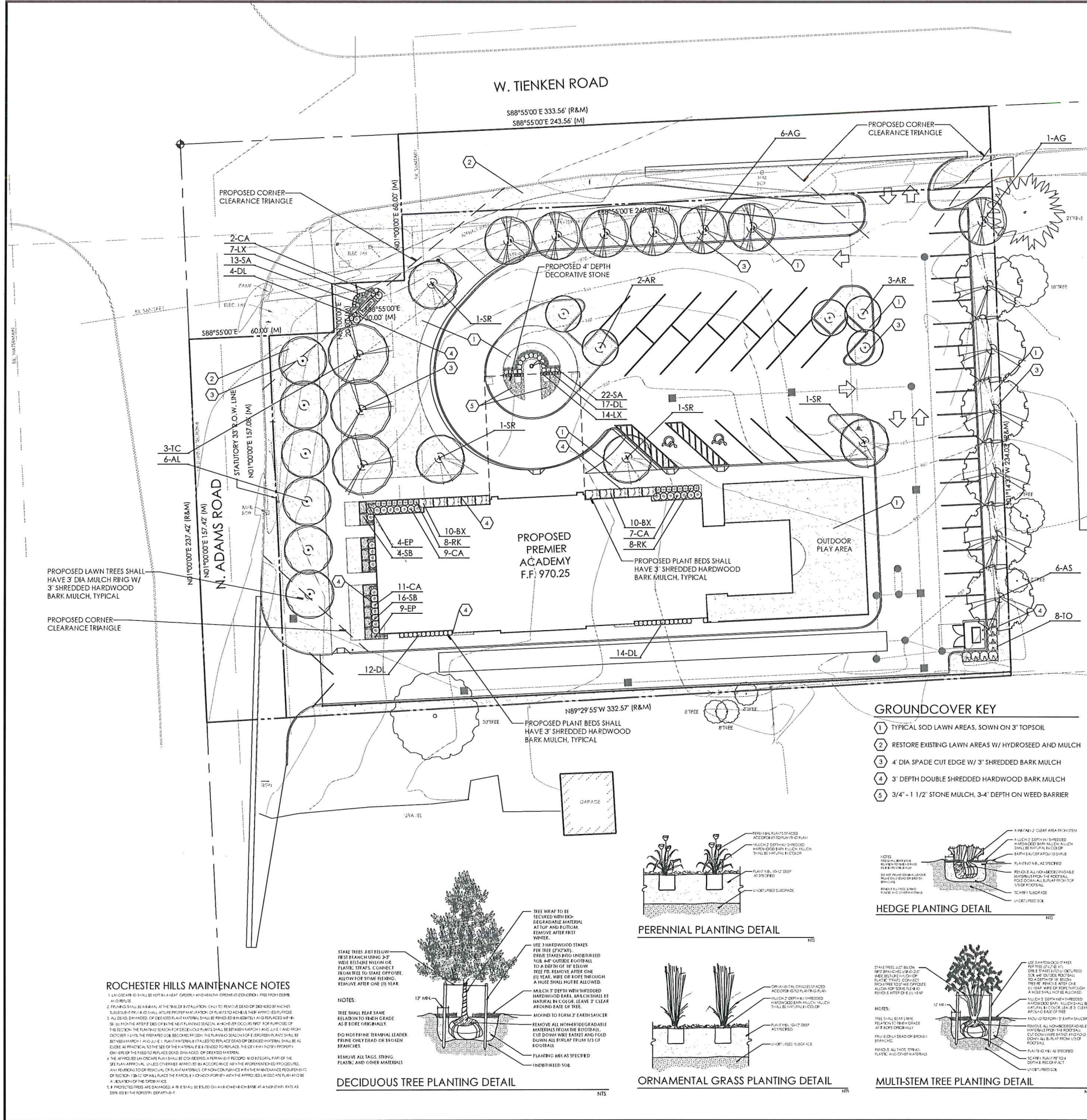
DESIGNED BY:
G. Ostrowski

APPROVED BY:
G. Ostrowski

DATE:
06-01-2017

SCALE: 1" = 20'

NFE JOB NO. SHEET NO.
J580 L1



LANDSCAPE REQUIREMENTS
 EXISTING SITE ZONING: R-3 SINGLE FAMILY RESIDENTIAL DISTRICT
 EXISTING SITE AREA: 58,685.83 S.F. OR 1.35 ACRES

GENERAL LANDSCAPE AREA
 TOTAL LANDSCAPE AREA PROVIDED: 51,036.99 S.F. (18% OF SITE)

FRONTAGE REQUIREMENTS
 1 TREE PER 35 L.F. AND 1 ORNAMENTAL TREE PER 60 L.F.
 TOTAL FRONTAGE: 243.41 L.F.
 REQUIRED: 243.41/35 = 7 DECIDUOUS TREES
 243.41/60 = 4 ORNAMENTAL TREES

ADAMS ROAD: 204 L.F.
 REQUIRED: 204 / 35 = 6 DECIDUOUS TREES
 204 / 60 = 3 ORNAMENTAL TREES

PARKING LOT LANDSCAPE REQUIREMENTS
 5% OF VEHICLE USE AREA: 1 TREE PER 150 S.F. OF REQUIRED AREA
 VEHICLE USE AREA: 25,957.32 S.F.
 REQUIRED AREA: 25,957.32 S.F. X 5% = 1,297.87 S.F.
 REQUIRED TREES: 1,297.87 S.F. / 150 S.F. = 8.6 OR 9 TREES

TOTAL TREES PROVIDED: 9 TREES
TOTAL AREA PROVIDED: 1,324.56 S.F.

REPLACEMENT TREE REQUIREMENTS
 REQUIRED REPLACEMENT CREDITS: 12
 PROVIDED REPLACEMENT CREDITS: 12 CREDITS (6 TREES X 2 CREDITS)

CITY OF ROCHESTER HILLS NOTES

1. PRIOR TO THE RELEASE OF THE PERMITS, THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT SHALL SUBMIT ALL LANDSCAPE ARCHITECTURE PLANS TO THE CITY OF ROCHESTER HILLS FOR REVIEW AND APPROVAL. ALL PLANTINGS AND MATERIALS SHALL BE SPECIFIED IN THE PLANS AND SHALL BE APPROVED BY THE CITY OF ROCHESTER HILLS. THE CITY OF ROCHESTER HILLS RESERVES THE RIGHT TO REQUEST CHANGES TO ANY PLANTING OR MATERIAL SPECIFIED IN THE PLANS AT ANY TIME PRIOR TO THE START OF CONSTRUCTION. THE CITY OF ROCHESTER HILLS SHALL NOT BE RESPONSIBLE FOR THE COST OF ANY CHANGES REQUESTED BY THE CITY OF ROCHESTER HILLS.
2. ALL TREES AND SHRUBS SHALL BE PLANTED AT LEAST 10 FEET FROM THE EDGE OF A PUBLIC ROADWAY. ALL TREES SHALL BE PLANTED AT LEAST 10 FEET FROM THE EDGE OF A PUBLIC ROADWAY. ALL TREES SHALL BE PLANTED AT LEAST 10 FEET FROM ANY STRUCTURE. ALL TREES SHALL BE PLANTED AT LEAST 10 FEET FROM THE EDGE OF A PUBLIC ROADWAY. ALL TREES SHALL BE PLANTED AT LEAST 10 FEET FROM ANY STRUCTURE. ALL TREES SHALL BE PLANTED AT LEAST 10 FEET FROM THE EDGE OF A PUBLIC ROADWAY. ALL TREES SHALL BE PLANTED AT LEAST 10 FEET FROM ANY STRUCTURE.
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4. A TREE APPROVAL PERMIT SHALL BE OBTAINED FROM THE CITY OF ROCHESTER HILLS PRIOR TO THE START OF CONSTRUCTION. THE CITY OF ROCHESTER HILLS SHALL NOT BE RESPONSIBLE FOR THE COST OF ANY CHANGES REQUESTED BY THE CITY OF ROCHESTER HILLS.
5. THE CITY OF ROCHESTER HILLS RESERVES THE RIGHT TO REQUEST CHANGES TO ANY PLANTING OR MATERIAL SPECIFIED IN THE PLANS AT ANY TIME PRIOR TO THE START OF CONSTRUCTION. THE CITY OF ROCHESTER HILLS SHALL NOT BE RESPONSIBLE FOR THE COST OF ANY CHANGES REQUESTED BY THE CITY OF ROCHESTER HILLS.
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9. THE CITY OF ROCHESTER HILLS RESERVES THE RIGHT TO REQUEST CHANGES TO ANY PLANTING OR MATERIAL SPECIFIED IN THE PLANS AT ANY TIME PRIOR TO THE START OF CONSTRUCTION. THE CITY OF ROCHESTER HILLS SHALL NOT BE RESPONSIBLE FOR THE COST OF ANY CHANGES REQUESTED BY THE CITY OF ROCHESTER HILLS.



NF ENGINEERS
 CIVIL ENGINEERS
 LAND SURVEYORS
 LAND PLANNERS

NOWAK & FRAUS ENGINEERS
 46777 WOODWARD AVE.
 PONTIAC, MI 48342-5032
 TEL: (248) 332-7931
 FAX: (248) 332-8257

PROPOSED LAWN TREES SHALL HAVE 3" DIA MULCH RING W/ 3" SHREDDED HARDWOOD BARK MULCH, TYPICAL

PROPOSED CORNER CLEARANCE TRIANGLE

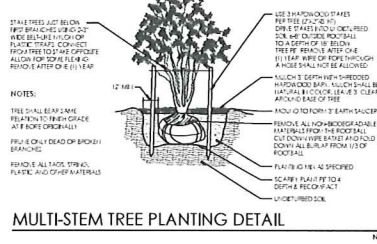
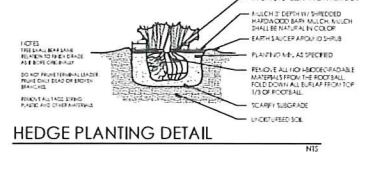
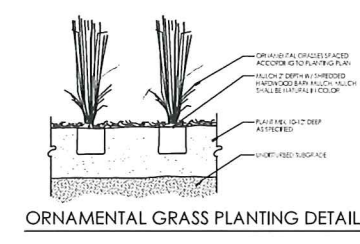
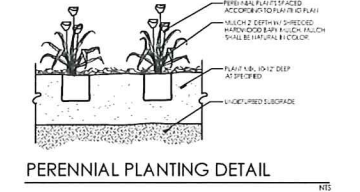
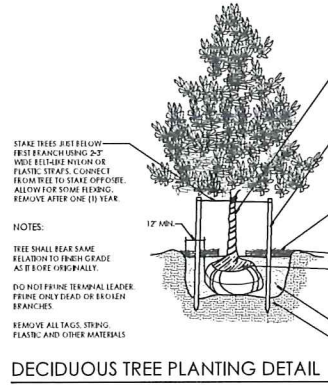
PROPOSED PLANT BEDS SHALL HAVE 3" SHREDDED HARDWOOD BARK MULCH, TYPICAL

MASTER PLANT SCHEDULE

REPLACEMENT TREES

KEY	QTY	BOTANICAL/COMMON NAME	SIZE	ROOT	COMMENT	UNIT TOTAL COST
AR	4	Alnus incana	3" CAL	BAR	FULLY BRANCHED HEADS	\$325/ \$1,300.00
SR	4	Salix caprea	3" CAL	BAR	FULLY BRANCHED HEADS	\$325/ \$1,300.00
FRONTAGE PLANTINGS						
KEY	QTY	BOTANICAL/COMMON NAME	SIZE	ROOT	COMMENT	UNIT TOTAL COST
AG	7	Acer glabrum	2.5" CAL	BAR	FULLY BRANCHED HEADS	\$300/ \$2,100.00
AL	4	Alnus incana	2.5" CAL	BAR	FULLY BRANCHED HEADS	\$300/ \$1,200.00
TC	3	Taxus canadensis	3" CAL	BAR	FULLY BRANCHED HEADS	\$325/ \$975.00
PARKING LOT PLANTINGS						
KEY	QTY	BOTANICAL/COMMON NAME	SIZE	ROOT	COMMENT	UNIT TOTAL COST
AR	5	Alnus incana	3" CAL	BAR	FULLY BRANCHED HEADS	\$325/ \$1,625.00
SR	4	Salix caprea	3" CAL	BAR	FULLY BRANCHED HEADS	\$325/ \$1,300.00
MISCELLANEOUS PLANTINGS						
KEY	QTY	BOTANICAL/COMMON NAME	SIZE	ROOT	COMMENT	UNIT TOTAL COST
BX	20	Buxus x Winter Green	3P HT	BAR	MAINTAIN AS HEDGE	\$50/ \$1,000.00
CA	29	Cornus alternifolia	2 GAL	C&H	WELL-ROOTED	\$50/ \$1,450.00
DL	43	Dianthus barbatus	5 GAL	C&H	WELL-ROOTED	\$50/ \$2,150.00
EP	13	Erigeron philadelphicus	2 GAL	C&H	WELL-ROOTED	\$50/ \$650.00
EK	21	Erigeron philadelphicus	2 GAL	C&H	WELL-ROOTED	\$50/ \$1,050.00
EX	18	Erigeron philadelphicus	5 GAL	C&H	WELL-ROOTED	\$50/ \$900.00
SA	20	Salix caprea	2 GAL	C&H	WELL-ROOTED	\$50/ \$1,000.00
SB	35	Salix caprea	3P HT	BAR	MAINTAIN AS HEDGE	\$50/ \$1,750.00
TO	8	Taxus canadensis	5 HT	BAR	MAINTAIN AS HEDGE	\$50/ \$400.00
MISCELLANEOUS						
115	1	AIRBORNE/UNDERGROUND IRRIGATION SYSTEM, COMPLETE				\$8,000.00

- GROUND COVER KEY**
- 1 TYPICAL SOD LAWN AREAS, SOWN ON 3" TOPSOIL
 - 2 RESTORE EXISTING LAWN AREAS W/ HYDROSEED AND MULCH
 - 3 4" DIA SPADE CUT EDGE W/ 3" SHREDDED BARK MULCH
 - 4 3" DEPTH DOUBLE SHREDDED HARDWOOD BARK MULCH
 - 5 3/4" - 1 1/2" STONE MULCH, 3-4" DEPTH ON WEED BARRIER



ROCHESTER HILLS MAINTENANCE NOTES

1. LANDSCAPE SHALL BE MAINTAINED AT ALL TIMES. ALL TREES AND SHRUBS SHALL BE MAINTAINED AT ALL TIMES.
2. TREES SHALL BE MAINTAINED AT ALL TIMES. ALL TREES AND SHRUBS SHALL BE MAINTAINED AT ALL TIMES.
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SEAL

PROJECT
 Premier Academy

CLIENT
 JS Capital Group
 945 S. Rochester Road
 Rochester Hills, MI 48308
 Contact: Paul Dunn
 Phone: (248) 249-4911

PROJECT LOCATION
 Part of the NE 1/4 of Section 8
 T.3N., R.11E.
 City of Rochester Hills,
 Oakland County, Michigan

811
 Know what's below
 Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION
01/28/17	REVISED PER CITY REVIEW	

DRAWN BY:
 G. Ostrowski

DESIGNED BY:
 G. Ostrowski

APPROVED BY:
 G. Ostrowski

DATE:
 06-01-2017

SCALE: 1" = 20'

NFE JOB NO. J580 **SHEET NO. L2**

