ANN ARBOR PUBLIC SCHOOLS
THURSTON ELEMENTARY SCHOOL
2300 PRAIRIE STREET
ANN ARBOR, MICHIGAN

STATE OF MICHIGAN
GREGORY J. NOETH
ARCHITECT
No. 38845
LICENSED ARCHITECT
6/13/2017

REQUIRED STATEMENTS

PROJECT DESCRIPTION

SITE WORK AS IT RELATES TO THE THURSTON ELEMENTARY SCHOOL INCLUDES THE FOLLOWING:

THE WORK ON THE SUBJECT SITE CONSISTS OF THE INSTALLATION OF (4) MODULAR UNITS THAT WHEN ASSEMBLED TOGETHER WILL CREATE A 4,844 SQUARE FOOT (4) CLASSROOM BUILDING WITH RESTROOMS, STEPS, RAMPS AND COVERED WALKWAYS. THE MODULAR BUILDING WILL BE TIED INTO EXISTING WATER, SEWER, AND ELECTRICAL. (REFER TO SHEET #4)

NATURAL FEATURES IMPACT

WETLANDS, SOIL EROSION, AND FLOOD ZONE

NO WETLANDS, WOODLANDS, OR FLOOD-PLAIN WILL BE IMPACTED BY THE PROJECT. THE PROJECT DOES NOT CONTAIN STEEP SLOPES OR NEGATIVE IMPACT TO WATER RESOURCES.

LANDMARK TREES

TREES WITHIN THE FOOTPRINT OF THE MODULAR BUILDING WILL BE RELOCATED. NEW LOCATION WILL BE DETERMINED BY THE OWNER AT A LATER DATE.

POLLUTION OR CONTAMINATION ON SUBJECT SITE

THERE ARE NO KNOWN POLLUTION FOR CONTAMINATES ON THE SUBJECT SITE.

SOIL EROSION AND SEDIMENTATION PLAN

THE STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS BUREAU OF CONSTRUCTION CODES / PLAN REVIEW DIVISION DOES NOT REQUIRE SOIL EROSION AND SEDIMENTATION CONTROL, GENERALLY WHEN LESS THAN ONE ACRE IS DISTURBED. THE DISTURBED AREA WILL BE LESS THAN ONE ACRE.

CONSTRUCTION STORM WATER PROGRAM

TO BE DETERMINED.

PROJECT MANAGEMENT

TRAFFIC IMPACT

TO BE DETERMINED.

DRIVEWAYS

NO EXISTING DRIVEWAYS WILL BE IMPACTED ON THE SUBJECT SITE.

NOISE CONTROL

THE MAJORITY OF THE CONSTRUCTION ACTIVITIES ARE DONE OFF SITE AT THE MODULAR BUILDING MANUFACTURER'S LOCATION. THE EQUIPMENT USED ON THE SUBJECT SITE WILL CONSIST OF A BACK HOE, TRUCK, CONCRETE MIXER, GENERATOR, COMPRESSORS, POWER SAWS, AND ELECTRIC DRILLS. THE AVERAGE SOUND LEVEL WILL BE WILL BE LESS THAN THE OSHA (AT WORKERS EAR) LEVEL OF 90.

LEGAL DESCRIPTION

BEG W 1/4 COR SEC 14, T2S R6E TH N 89 DEG 08 MIN 20 SEC E 660.75 FT TH S 1 DEG 12 MIN E 1591.32 FT TH S 89 DEG 08 MIN 20 SEC W 610.0 FT TH NLY 101.96 FT ALG ARC OF CIR CURVE CONCAVE SW R=6602.95 FT CHORD N 29 DEG 12 MIN 20 SEC W 101. 84 FT TH N 34 DEG 03 MIN W 5.62 FT TH N 1 DEG 11 MIN 40 SEC W 1496.99 FT TO POB PART W 1/2 SEC 14 T2S R6E ALSO OUTLOT C NORTH CAMPUS HEIGHTS ALSO LOTS 121 122 123 124 & 125 NORTH CAMPUS HEIGHTS NO 3 EXC BEG AT NW COR OF SD LOT 125 TH NE 144.09 FT TH S 106 FT TH WLY TO POB

OWNER
ANN ARBOR PUBLIC SCHOOLS
2555 S. STATE ST.
ANN ARBOR, MI 48104
734.995.2043
ATTN: JENNIFER HEIN

OWNER'S ARCHITECT
MITCHELL AND MOUAT ARCHITECTS
113 S. FOURTH AVE.
ANN ARBOR, MI 48104
734.662.6070
ATTN: KEVIN STANSBURY

GENERAL CONTRACTORS ARCHITECT
GREGORY NOETH ARCHITECT
1790 SARATOGA AVE.
CLEVELAND, OH 44109
216.789.2086
ATTN: GREG NOETH

GENERAL CONTRACTOR
INNOVATIVE MODULAR SOLUTION
30803 OLD US HWY 33
ELKHART, IN 46516
574.830.8237
ATTN: JASON SHANNON

MICHIGAN DESIGN CODES:
2014 MICHIGAN ELECTRICAL CODE /2014 NEC
2012 MICHIGAN BUILDING CODE (IBC)
2012 MICHIGAN MECHANICAL CODE (IMC)
2012 MICHIGAN PLUMBING CODE (IPC)
2009 MICHIGAN UNIFORM ENERGY CODE 10A 2007 ASHRAE
AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
MICHIGAN SCHOOL BULLETIN #412 (FOR CLASSROOMS ONLY)

DRAWING INDEX

Local Governmental Agency to Complete This Section

ENVIRONMENTAL CONTROL APPROVALS

	REQUIRED?	APPROVED	DATE	NUMBER	BY
A - Zoning	☐Yes ☐ No				
B - Fire District - (Refer to Fire Prevention Plan Sheet # 8)	☐ Yes ☐ No				
C - Pollution Control - (Refer to Notes on Cover Sheet # 1)	☐ Yes ☐ No				
D - Noise Control - (Refer to Cover Notes on Sheet # 1)	☐ Yes ☐No				
E - Soil Erosion - (Refer to Erosion Control Plan Sheets # 5 & 6)	☐ Yes ☐ No				
F - Flood Zone - (Refer to Cover Notes on Sheet # 1)	☐ Yes ☐ No				
G - Water Supply - (Refer to Utility Plan Sheet # 4)	☐ Yes ☐ No				
H - Sewer - (Refer to Cover Notes on Sheet # 4)	☐ Yes ☐ No				
I - Variance Granted	☐ Yes ☐ No				
J - Other	☐ Yes ☐ No				

COVER SHEET

SCALE:NONE

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Oswego, IL 60543
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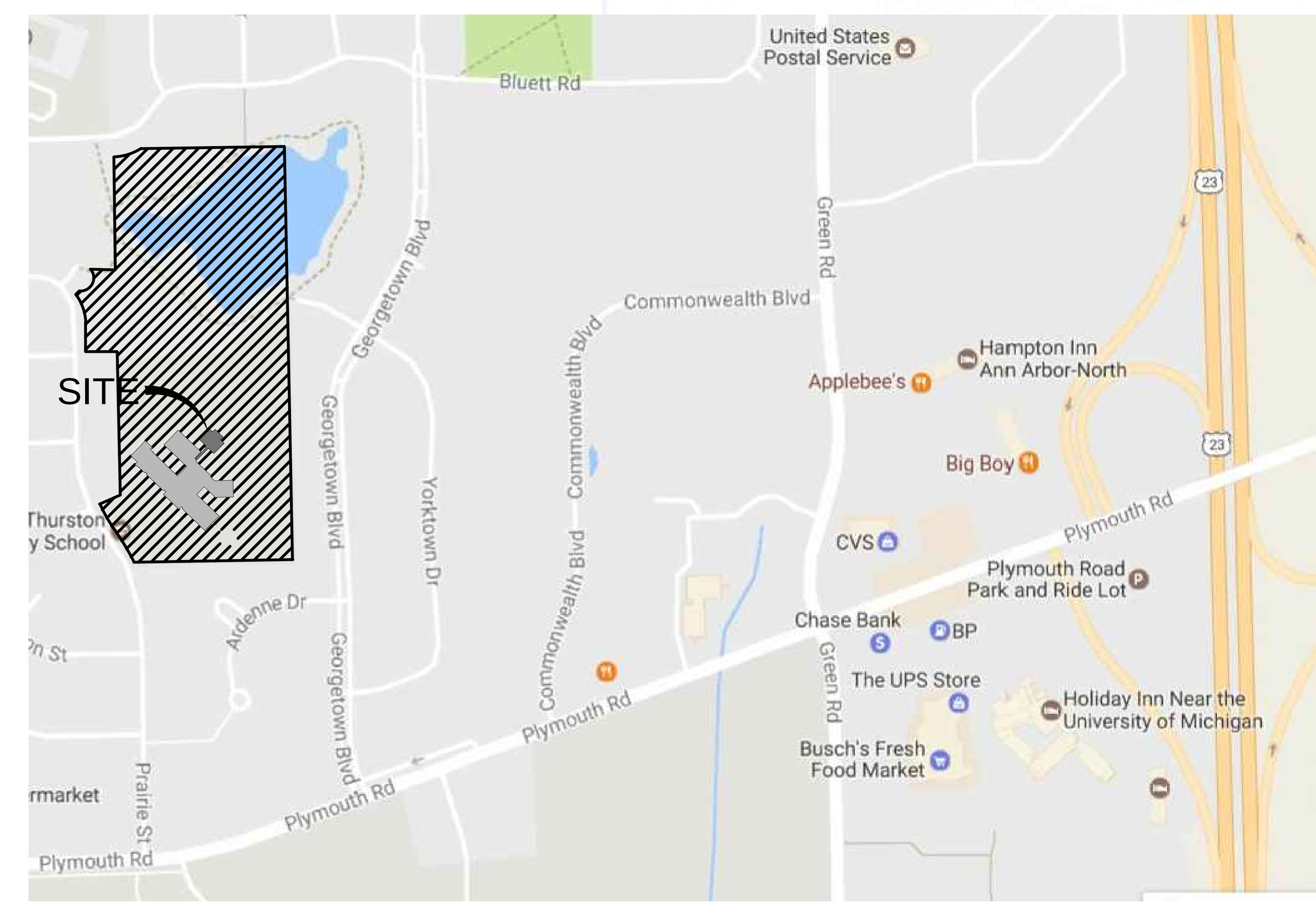
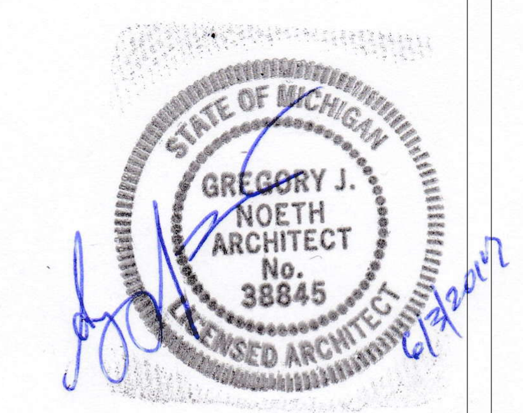
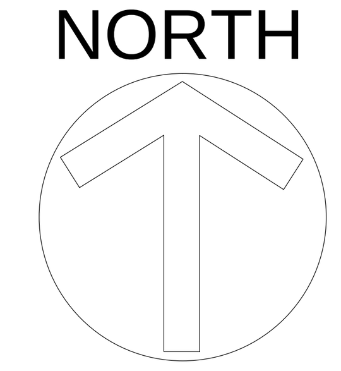
ANN ARBOR PUBLIC SCHOOLS
THURSTON ELEMENTARY SCHOOL
Description: COVER SHEET
Drawn By: CHUCK KEEL
Date: 04/19/2017
Quote Number:
Page Number: 1
Scale: 1"=80'-0"



VICINITY MAP



NORTH



OVERALL SITE PLAN

SCALE:1"=80'-0"

ANN ARBOR PUBLIC SCHOOLS
THURSTON ELEMENTARY SCHOOL

Description: OVERALL SITE PLAN

Drawn By: CHUCK KEEL

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Date: 04/19/2017

Quote Number:

Page Number: 2

Scale: 1"=80'-0"

NOTES:

1. EXISTING SITE CONTOURS WILL NOT CHANGE.
2. TOPSOIL WILL BE STRIPPED TO THE EXTENT OF THE BUILDING FOOTIPRINT AND AT UTILITIES TRENCH AND CONNECTIONS.
3. ALL UTILITY EXCAVATING WILL BE BACKFILLED AND COMPACTED.

EXISTING CONDITIONS PLAN

SCALE:1"=40'-0"

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ANN ARBOR PUBLIC SCHOOLS
THURSTON ELEMENTARY SCHOOL

Description: EXISTING CONNDITIONS PLAN

Drawn By: CHUCK KEEL

Date: 04/19/2017

Quote Number:

Page Number: 3

Scale: 1/16"='-0"

LEGEND

U.P.	EXIST. UTILITY POLE
GP	EXIST. GUY POLE
	GUY WIRE
	ELEC. TRANSFORMER
OH	EXIST. OVERHEAD UTILITY LINE
	EXIST. LIGHT POLE
	PROP. LIGHT POLE
	PROP. BUILDING LIGHT
t	EXIST. TELEPHONE LINE
T	PROP. TELEPHONE LINE
e	EXIST. ELECTRIC LINE
E	PROP. ELECTRIC LINE
g	EXIST. GAS LINE
G	PROP. GAS LINE
g	EXIST. GAS VALVE
f.o.	EXIST. FIBER OPTIC LINE
F.O.	PROP. FIBER OPTIC LINE
w	EXIST. WATER MAIN
W	PROP. WATER MAIN
	EXIST. HYDRANT
	PROP. HYDRANT
	EXIST. GATE VALVE IN BOX
	PROP. GATE VALVE IN BOX
	EXIST. GATE VALVE IN WELL
	PROP. GATE VALVE IN WELL
x	EXIST. CURB STOP & BOX
x	PROP. CURB STOP & BOX
r	EXIST. STORM SEWER
R	PROP. STORM SEWER
	EXIST. CATCH BASIN OR INLET
	PROP. CATCH BASIN OR INLET
RD	PROP. ROOF DRAIN
	END SECTION
	CULVERT
ds	EXIST. DOWNSPOUT
ds	PROP. DOWNSPOUT
s	EXIST. SANITARY SEWER
S	PROP. SANITARY SEWER
	EXIST. CLEANOUT
	PROP. CLEANOUT
tl	TELEPHONE RISER
catv	CABLE TELEVISION RISER
e	ELECTRIC METER
w	WATER METER
g	GAS METER
gm	GAS LINE MARKER
fiber	FIBER OPTIC MARKER

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH CITY OF ANN ARBOR DETAILS AND SPECIFICATIONS.
2. CONTRACTOR TO VERIFY AND CONFIRM ALL UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER OF THE RESULTS.
3. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY POTENTIAL UTILITY CONFLICTS IMMEDIATELY.
4. MAINTAIN A MINIMUM 18" VERTICAL CLEARANCE BETWEEN ALL UTILITIES UNLESS OTHERWISE NOTED.
5. ENSURE POSITIVE DRAINAGE TO ALL STORM SEWER STRUCTURES. ANY AREAS WHICH APPEAR TO HAVE POTENTIAL FOR PONDING WATER SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
6. NO FDC ARE PROPOSED.

UTILITY NOTES

1. ALL SANITARY SEWER SHALL BE SDR-26 PVC OR APPROVED EQUAL UNLESS OTHERWISE NOTED.
2. ALL WATER MAIN SHALL BE CL. 50 D.I.P. OR APPROVED EQUAL UNLESS OTHERWISE NOTED.

SANITARY SEWER MITIGATION CALCS

ONE ADDITION IS PROPOSED TO BE CONSTRUCTED AT THE EXISTING SCHOOL WHICH WILL HANDLE THE EXPECTED INCREASE OF 50 STUDENTS. SANITARY SEWER FLOW MITIGATION IS CALCULATED USING THE APPENDIX B, TABLE A VALUES PROVIDED BY THE CITY OF ANN ARBOR USING THE FACTOR FOR "SCHOOLS, NURSERY AND ELEMENTARY". USING 10 GPD/STUDENT AND APPLYING THE RECOVERY FACTOR OF 1.1 AND PEAKING FACTOR OF 4, THE CALCULATIONS ARE AS FOLLOWS:

PEAK FLOW = 50 STUDENTS x 10 GPD/STUDENT x 1.1 x 4 = 2,200 GPD

2,200 GPD x 1 DAY/24 HR x 1 HR/60 MIN = 1.53 GPM

FDD NOTES

1. VERIFICATION OF EXISTING FOOTING DRAINS WILL NOT BE REQUIRED SINCE IT IS KNOWN THERE ARE NO EXISTING FOOTING DRAINS FOR THE BUILDING.

Chart Relating to Maximum Hydrant Lead Lengths/Dead-End Main Lengths*

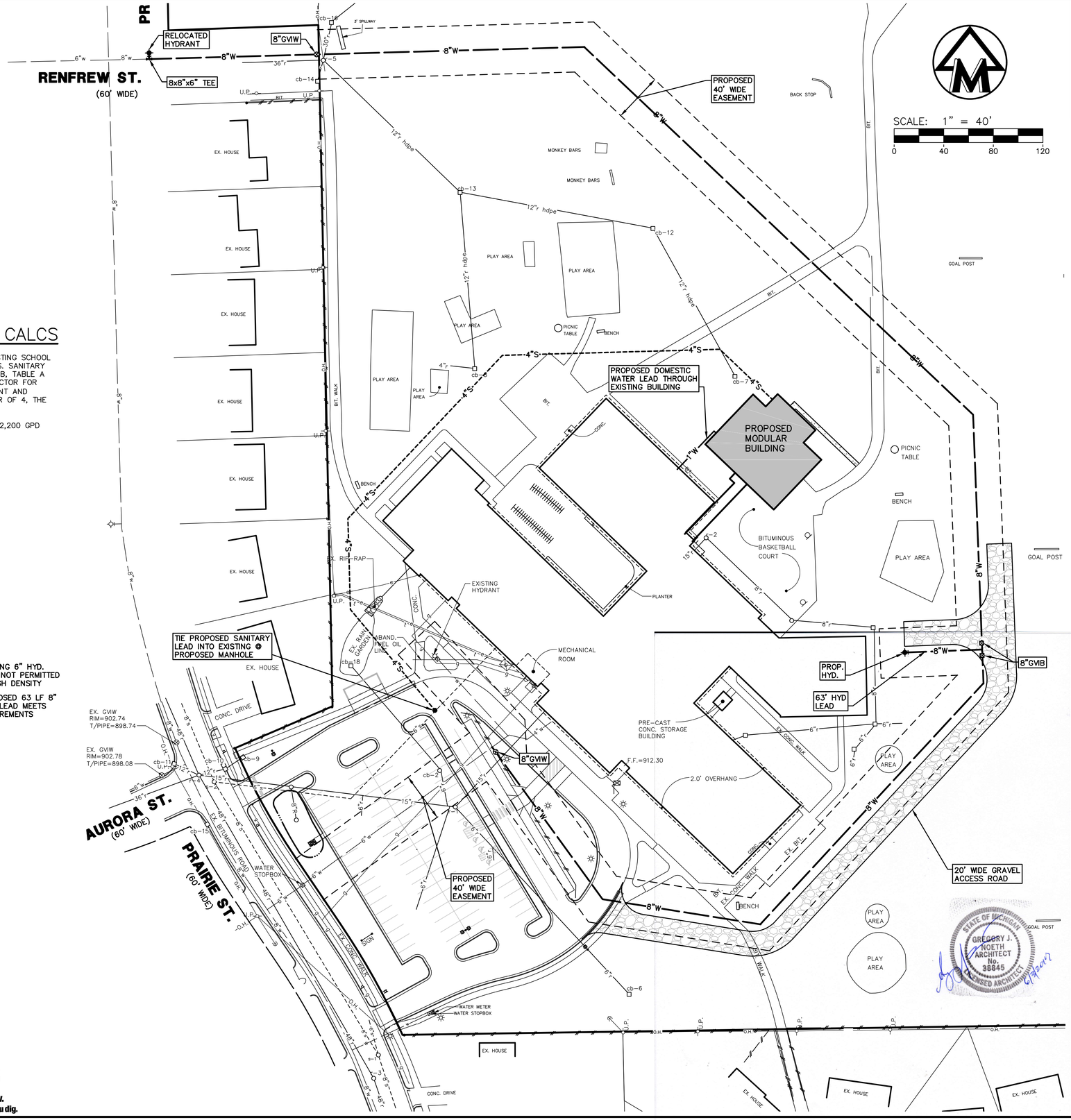
Looping Connecting Main Size	Hyd. Lead/ Dead-End Main Size From Looping Main	Low Density (Residential)	Medium Density	High Density (8" Lead 6" Hydrant Valve Opening)
6"	6"	60'	10'	N.P.
8"	6"	230'	80'	N.P.
	8"	600'	325'	100'
10"	6"	270'	120'	N.P.
	8"	600'	475'	250'
	10"	600'	500'	500'
12"	6"	280'	130'	N.P.
	8"	600'	500'	290'
	10"	600'	500'	500'
16"	6"	300'	140'	N.P.
	8"	600'	500'	300'
	10"	600'	500'	500'
	12"	600'	500'	500'

EXISTING 6" HYD. LEAD NOT PERMITTED IN HIGH DENSITY

PROPOSED 63 LF 8" HYD. LEAD MEETS REQUIREMENTS

N.P. = Not Permitted

*Dead-end mains must be approved in writing by the Public Services Director and Utilities Director. All dead-end mains shall terminate with a fire hydrant.



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THURSTON ELEMENTARY
MODULAR BUILDING
OVERALL UTILITY PLAN

4

DATE: 06-14-2017
SHEET 4 OF 9
CADD: TPH
ENG: TPH
PM: RCW
TECH:
T:\17142\SP1.dwg

JOB No. 17142
REVISIONS:

REV.	DATE

STATE OF MICHIGAN
GREGORY J. NOETH
ARCHITECT
No. 38645
LICENSED ARCHITECT

EROSION CONTROL PLAN

SCALE:1"=40'-0

ANN ARBOR PUBLIC SCHOOLS
THURSTON ELEMENTARY SCHOOL

Description: EROSION CONTROL PLAN

Drawn By: CHUCK KEEL

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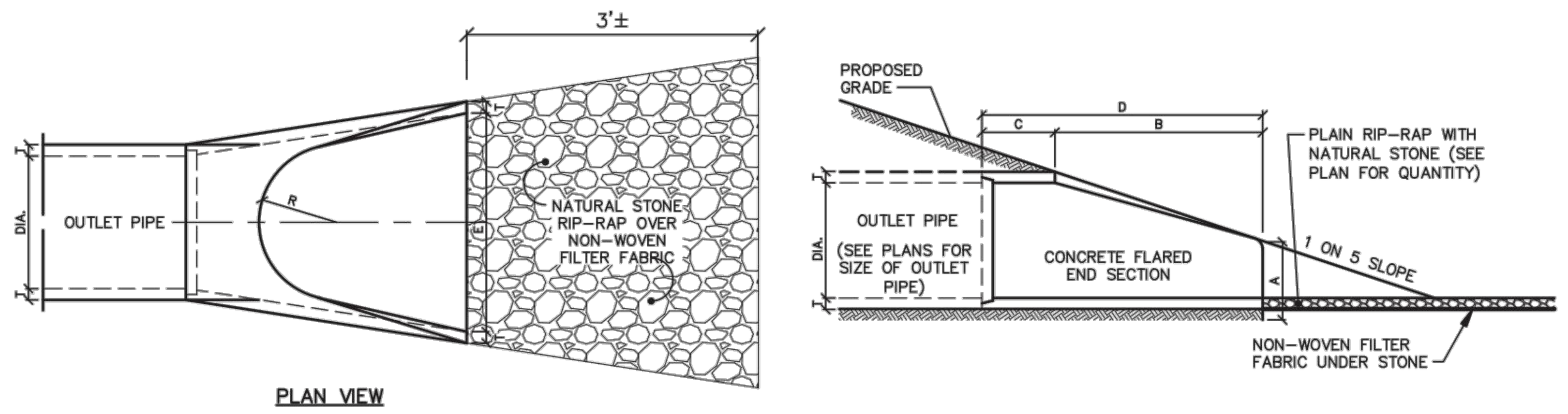
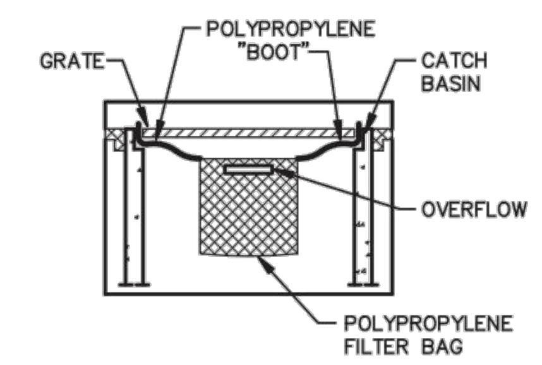


DIA.	T	A	B	C	D	E	K	R
12"	2"	7"	2'	4'-0 1/8"	6'-0 3/8"	2'-0"	13"	9"
15"	2 1/4"	9 1/2"	2'-3"	3'-10"	6'-1"	2'-6"	15"	11"
18"	2 1/2"	1'-0 1/2"	2'-3"	3'-10"	6'-1"	3'-0"	18"	12"

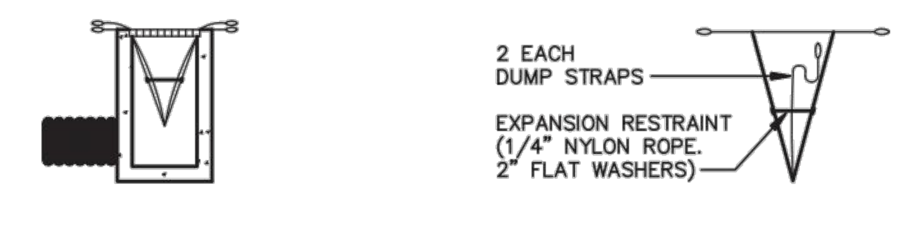
CONCRETE FLARED END SECTION (13p)

NOT TO SCALE

CONSTRUCTION SEQUENCE	SOIL EROSION CONTROL MEASURES
PRIOR TO CONSTRUCTION	– PRE–GRADING MEETING WITH ANN ARBOR SOIL EROSION CONTROL STAFF – IDENTIFY CONSTRUCTION LIMITS – INSTALL SILT FENCE – INSTALL CURB AND GUTTER INLET FILERS
CONSTRUCT UTILITIES	– MAINTAIN EXISTING CONTROLS – DETENTION FACILITIES MUST BE INSTALLED AND FUNCTIONING PRIOR TO THE ISSUANCE OF ANY BUILDING PERMITS.
PAVE DRIVEWAY & PARKING LOTS	– MAINTAIN EXISTING CONTROLS – INSTALL CURB AND GUTTER INLET FILTERS
DURING BUILDING CONSTRUCTION	– SILT FENCE SHALL BE MAINTAINED ON DOWN SLOPE SIDE OF LOT TO CONTROL RUNOFF
AFTER BUILDING CONSTRUCTION IS COMPLETED	– SEED AND MULCH OR SOD AREAS THAT HAVE NOT TAKEN – REMOVE SILT FENCE IF SEED OR SOD HAS TAKEN
FINE GRADE SITE	– SEED AND MULCH (SOD SLOPES > 3:1) DISTURBED AREAS – MAINTAIN EXISTING CONTROLS
CLEAN UP SITE	– RE–SOD OR SEED MULCH AREAS THAT HAVE NOT TAKEN – MAINTAIN EXISTING CONTROLS
AFTER DISTURBED AREAS HAVE STABLE VEGETATION	– REMOVE CURB AND GUTTER INLET FILTERS – CLEAN OUT INLET SUMPS

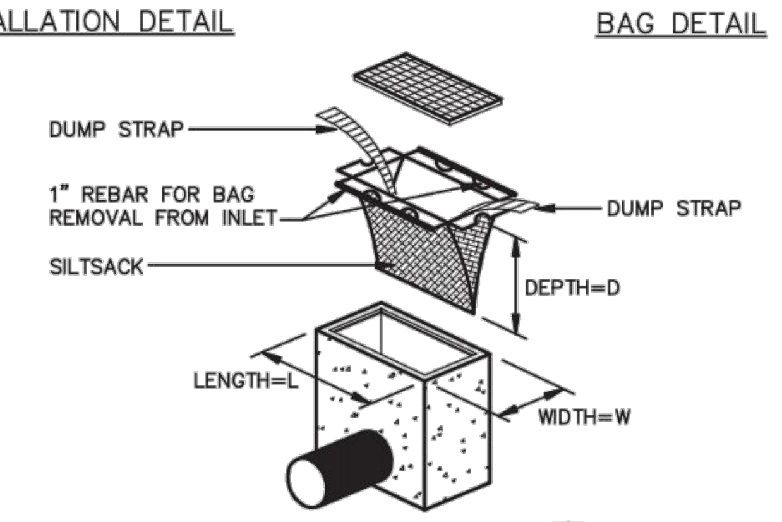


NOTE:
TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS. INLET FILTER TO BE SIMILAR TO "STREAMGUARD" AS MANUFACTURED BY STORMWATER SERVICES CORPORATION (206–767–0441) OR "SILTSACK" AS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC.; (800–448–3636). CLEAN FILTER AS NEEDED.



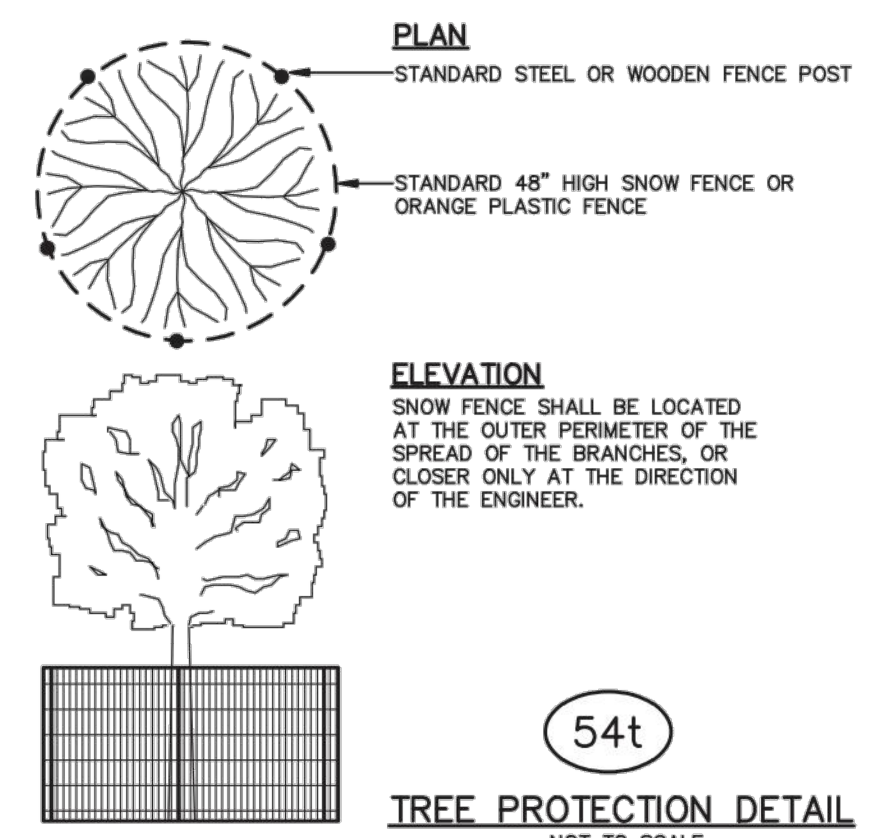
INSTALLATION DETAIL

BAG DETAIL



SILT SACK DETAIL (58t)

NO SCALE



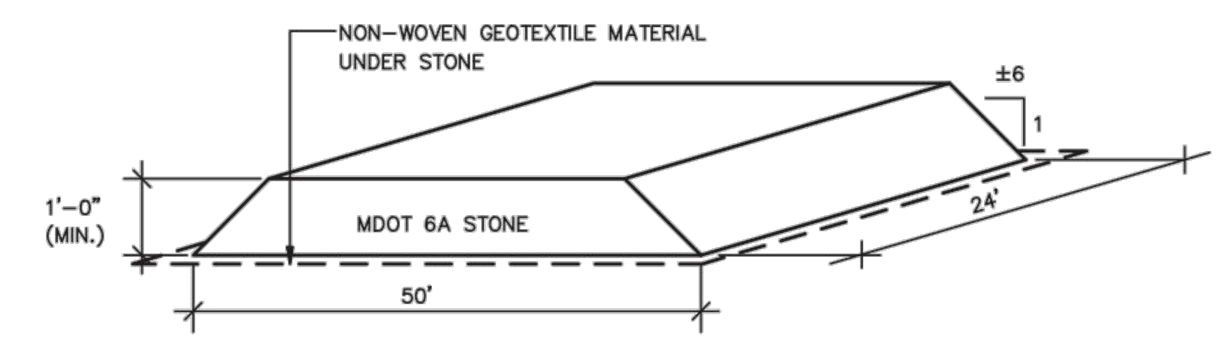
(54t)

TREE PROTECTION DETAIL

NOT TO SCALE

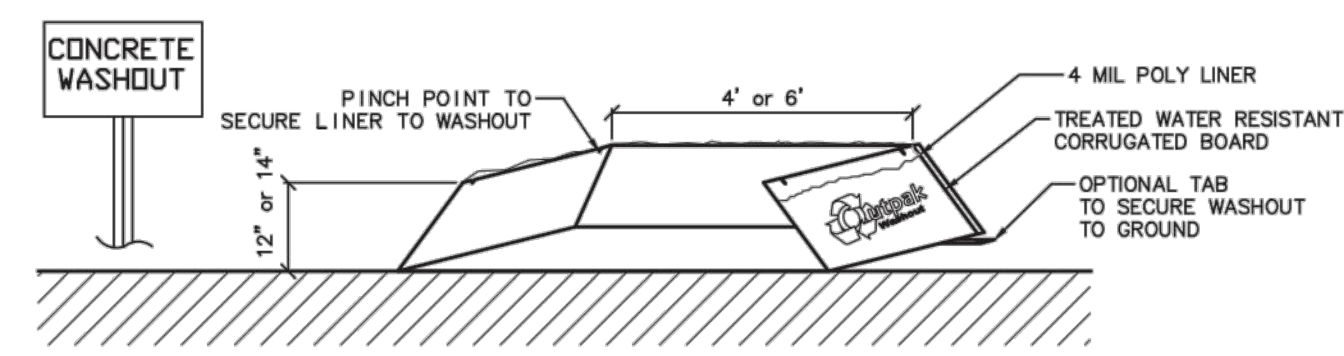
PERMANENT MAINTENANCE TASKS AND SCHEDULE

	Components							
	Pavement Areas	Storm Sewer System	Catch Basin Sumps	Catch Basin Inlet Castings	Detention Basin	Swales	Outflow Control Structure	Schedule
Inspect for sediment accumulation	X	X	X		X	X	X	annually
Removal of sediment accumulation		X	X		X	X	X	every 2 years, as needed
Inspect for floatables and debris		X	X	X	X	X		annually
Cleaning of floatables and debris		X	X	X	X	X		annually
Inspection for erosion					X	X		annually
Re-establish permanent vegetation on eroded slopes					X	X		as needed
Clean streets	X							semi-annually



GRAVEL MUD TRACKING MAT (60t)

NO SCALE



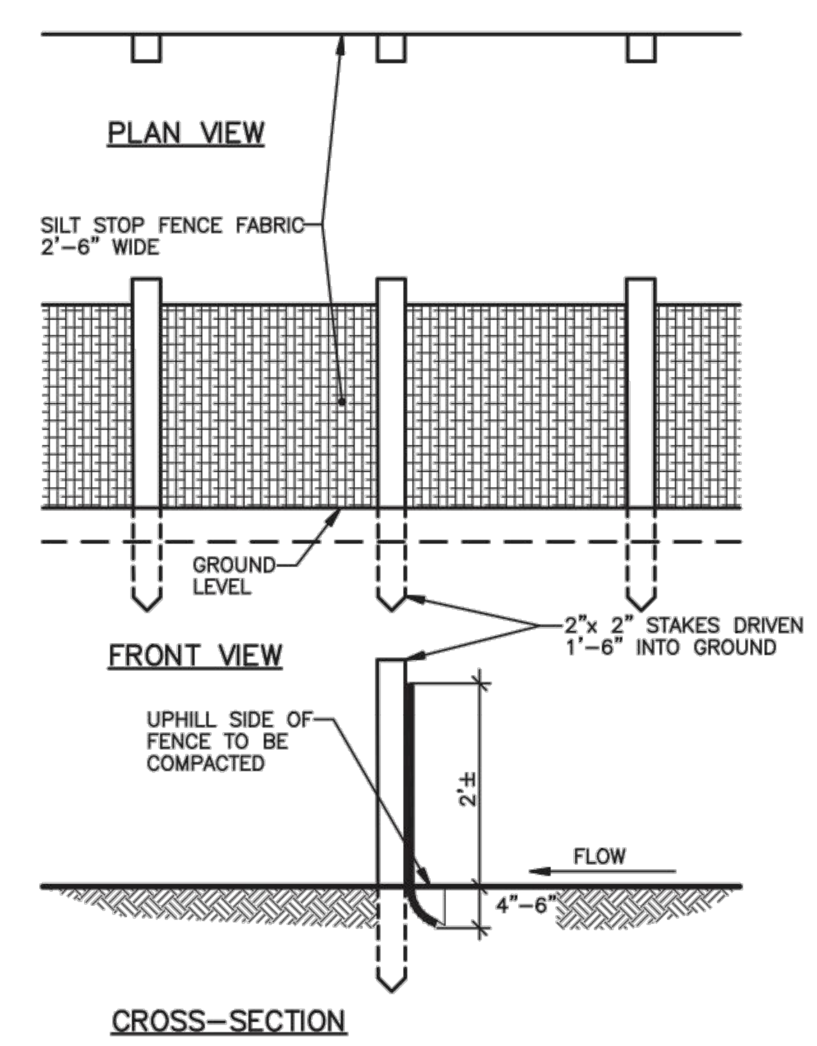
NOTES:

1. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON THIS PROJECT.
2. SIGNS SHALL BE PLACED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT.
3. THE CONCRETE WASHOUT AREA WILL BE REPLACED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTE CONCRETE AND OTHER LIQUID WASTE.
4. WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
5. DO NOT MIX EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.
6. DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
7. AVOID DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.
8. LOCATE WASHOUT AREA AT LEAST 50' (15 METERS) FROM STORM DRAINS, OPEN DITCHES, OR WATERBODIES.
9. WASH OUT WASTES INTO THE OUTPACK WASHOUT AS SHOWN WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY.

OR APPROVED EQUAL

CONCRETE WASHOUT SYSTEM

NOT TO SCALE



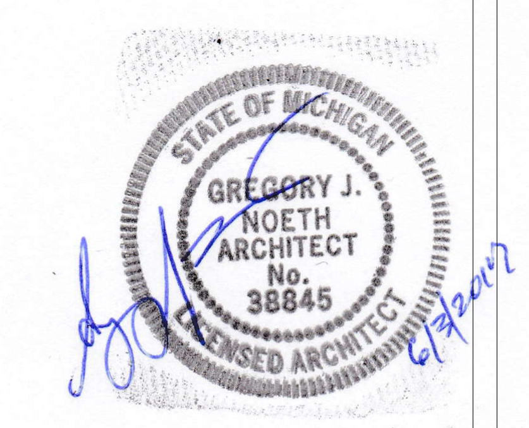
SILT FENCE DETAIL (55t)

NO SCALE

STORM WATER MANAGEMENT SYSTEM MAINTENANCE PLAN

1. Responsibility for Maintenance:
(a) During construction, it is the contractor's responsibility to perform the maintenance.
(b) Following construction, it will be the responsibility of the Ann Arbor Public School's facility staff to perform the maintenance.

2. Maintenance Tasks and Schedule
(a) See the chart on this sheet. The chart describes maintenance tasks to be performed by the Ann Arbor Public School's facility staff.
(b) Immediately following construction, the contractor will have the stormwater management system inspected by an engineer to verify grades of the detention and filtration areas and to make recommendations for any necessary sediment removal.



SOIL EROSION AND SEDIMENTATION CONSTRUCTION NOTES:

1. ALL SOIL EROSION CONTROL MEASURES SHALL COMPLY WITH THE CURRENT CITY OF ANN ARBOR ORDINANCES, WASHTENAW COUNTY STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND STATE OF MICHIGAN "SOIL EROSION AND SEDIMENTATION CONTROL ACT" (ACT NO. 347).
2. PRIOR TO COMMENCING EARTHMOVING OPERATIONS, THE GRADING CONTRACTOR SHALL INSTALL THE MUD TRACKING MAT, THE SILT FENCE AND TREE PROTECTION FENCES AS SHOWN ON THE PLANS.
3. THE ACTUAL LOCATION OF THE MUD TRACKING MATS MAY BE ADJUSTED BY THE CONTRACTOR TO MATCH CONTRACTOR'S OPERATIONS AND FIELD CONDITIONS BUT ONLY IF APPROVED BY THE ENGINEER.
4. ANY LAWN AREA WHICH WILL HAVE A SLOPE OF 3:1 OR STEEPER (3 FT MEASURED HORIZONTALLY AND 1 FT MEASURED VERTICALLY) SHALL BE SODDED AND PEGGED OR SEEDED AND MULCHED USING A SOIL EROSION CONTROL FABRIC OR BLANKET. HYDROSEEDING MAY BE USED IN LIEU OF SEED AND MULCH OR SOD WHERE SLOPES ARE FLATTER THAN 3:1.
5. ALL DISTURBED AREAS, EVEN WHERE FUTURE PAVEMENT AND BUILDINGS ARE PROPOSED, ARE TO BE RE–VEGETATED PER COUNTY STANDARDS FOR TEMPORARY SEEDING.
6. ALL RIPRAP SHALL BE PLACED OVER NON–WOVEN FILTER FABRIC.
7. ALL EXISTING AND/OR PROPOSED INLETS AND CATCH BASINS WITHIN THE PROJECT WILL HAVE POSITIVE COLLECTION SEDIMENT FILTERS INSTALLED. THESE FILTERS WILL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED. "SILTSACK", AS MANUFACTURED BY ACF ENVIRONMENTAL (OR APPROVED EQUAL) MAY BE USED.
8. ALL UNPAVED DISTURBED AREAS IN BACK OF CURB LINES WILL BE TOPSOILED, SEEDED, AND MULCHED. SLOPES THAT ARE 3:1 OR STEEPER WILL BE SODDED OR SEEDED AND MATTED WITHIN 5 DAYS OF ESTABLISHING THE FINAL GRADES.
9. THE CONTRACTOR WILL MAINTAIN ALL NECESSARY SOIL EROSION CONTROL DEVICES UNTIL SOIL STABILIZATION HAS OCCURRED.
10. APPROPRIATE EMERGENCY ACCESS WILL BE PROVIDED AND DOCUMENTED PRIOR TO CONSTRUCTION.
11. THE CONTRACTOR WILL BE RESPONSIBLE FOR BALANCING THE EARTHWORK AND FOR TRUCKING OFF AND LEGALLY DISPOSING OF ALL EXCESS SOIL MATERIAL.
12. SEE THE SOIL EROSION CONTROL PLANS AND LANDSCAPE PLANS FOR LOCATIONS AND TYPES OF SEED AND MATTING, OR SEED.
13. SOD MAY BE USED WHEREVER SEEDING IS INDICATED EXCEPT IN AREAS REQUIRING SPECIAL SEED MIXES.
14. DRAINAGE FROM ALL PAVEMENT AND ROOFS WILL BE DIRECTED TO THE ON–SITE STORM SEWER SYSTEM.
15. THE ESTIMATED COST TO STABILIZE THE AREA OF DISTURBANCE IS $3,000.00.

SOIL EROSION AND SEDIMENTATION PLAN

THE STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS BUREAU OF CONSTRUCTION CODES / PLAN REVIEW DIVISION DOES NOT REQUIRE SOIL EROSION AND SEDIMENTATION CONTROL, GENERALLY WHEN LESS THAN ONE ACRE IS DISTURBED. THE DISTURBED AREA WILL BE LESS THAN ONE ACRE.

MAINTENANCE REQUIREMENTS

1. ALL SILT FENCES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. IF THE DEPTH OF SILT AND SEDIMENT COMES TO WITHIN 12 INCHES OF THE TOP OF ANY SILT FENCE AT ANY TIME, ALL SILT AND SEDIMENT SHALL BE REMOVED TO ORIGINAL GRADE.
2. ALL TEMPORARY GRAVEL FILTERS SHOULD BE ADJUSTED AS TO LOCATION PER ACTUAL FIELD CONDITIONS. THE REMOVAL OF TRAPPED SEDIMENT AND CLEANOUT OR REPLACEMENT OF CLOGGED STONE MAY BE NECESSARY AFTER EACH STORM EVENT DURING THE PROJECT.
3. ONLY UPON STABILIZATION OF ALL DISTURBED AREAS MAY THE SILT FENCE, AND TEMPORARY GRAVEL FILTERS BE REMOVED. ALL SEDIMENT MUST ALSO BE CLEANED OUT OF THE STORM SEWERS.
4. PAVED AREAS MUST BE CLEANED OF ANY TRACKED MUD IMMEDIATELY FOLLOWING EACH MUD–TRACKING OCCURRENCE.
5. AN NPDES/NOC PERMIT FROM THE STATE OF MICHIGAN IS NOT REQUIRED DUE TO THE DISTURBED AREA BEING LESS THAN 5 ACRES.

EROSION CONTROL NOTES & DETAILS

SCALE:NONE

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ANN ARBOR PUBLIC SCHOOLS
THURSTON ELEMENTARY SCHOOL

Description: EROSION CONTRO NOTES & DETAILS

Drawn By: CHUCK KEEL

Date: 04/19/2017

Quote Number:

Page Number: 6

Scale:

NORTH

PROJECT LANDSCAPE PLAN

SCALE:1"=40'-0"

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ANN ARBOR PUBLIC SCHOOLS
THURSTON ELEMENTARY SCHOOL

Description: PROJECT LANDSCAPE PLAN

Drawn By: CHUCK KEEL

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Page Number: 7

Scale:

LEGEND

- EXIST. WATER MAIN
- PROP. WATER MAIN
- EXIST. HYDRANT
- PROP. HYDRANT
- EXIST. GATE VALVE IN BOX
- PROP. GATE VALVE IN BOX
- EXIST. GATE VALVE IN WELL
- PROP. GATE VALVE IN WELL
- EXIST. CURB STOP & BOX
- PROP. CURB STOP & BOX
- PROP. 400' HOSE LAY

NOTES

1. NO FDC ARE PROPOSED.
2. STORAGE AREA FOR CONSTRUCTION MATERIALS SHALL NOT INTERFERE WITH FIRE/EMERGENCY SITE ACCESS.

Chart Relating to Maximum Hydrant Lead Lengths/Dead-End Main Lengths*

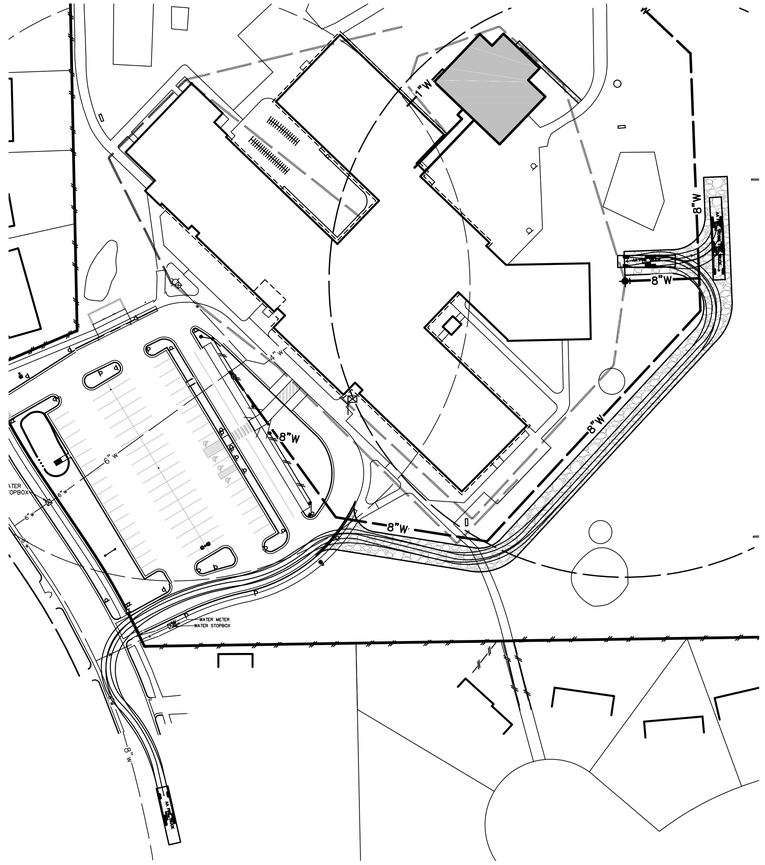
Looping Connecting Main Size	Hyd. Lead/ Dead-End Main Size From Looping Main	Low Density (Residential)	Medium Density	High Density (8" Lead 6" Hydrant Valve Opening)
6"	6"	60'	10'	N.P.
8"	6"	230'	80'	N.P.
	8"	600'	325'	100'
10"	6"	270'	120'	N.P.
	8"	600'	475'	250'
	10"	600'	500'	500'
12"	6"	280'	130'	N.P.
	8"	600'	500'	290'
	10"	600'	500'	500'
16"	6"	300'	140'	N.P.
	8"	600'	500'	300'
	10"	600'	500'	500'
	12"	600'	500'	500'

N.P. = Not Permitted

*Dead-end mains must be approved in writing by the Public Services Director and Utilities Director. All dead-end mains shall terminate with a fire hydrant.

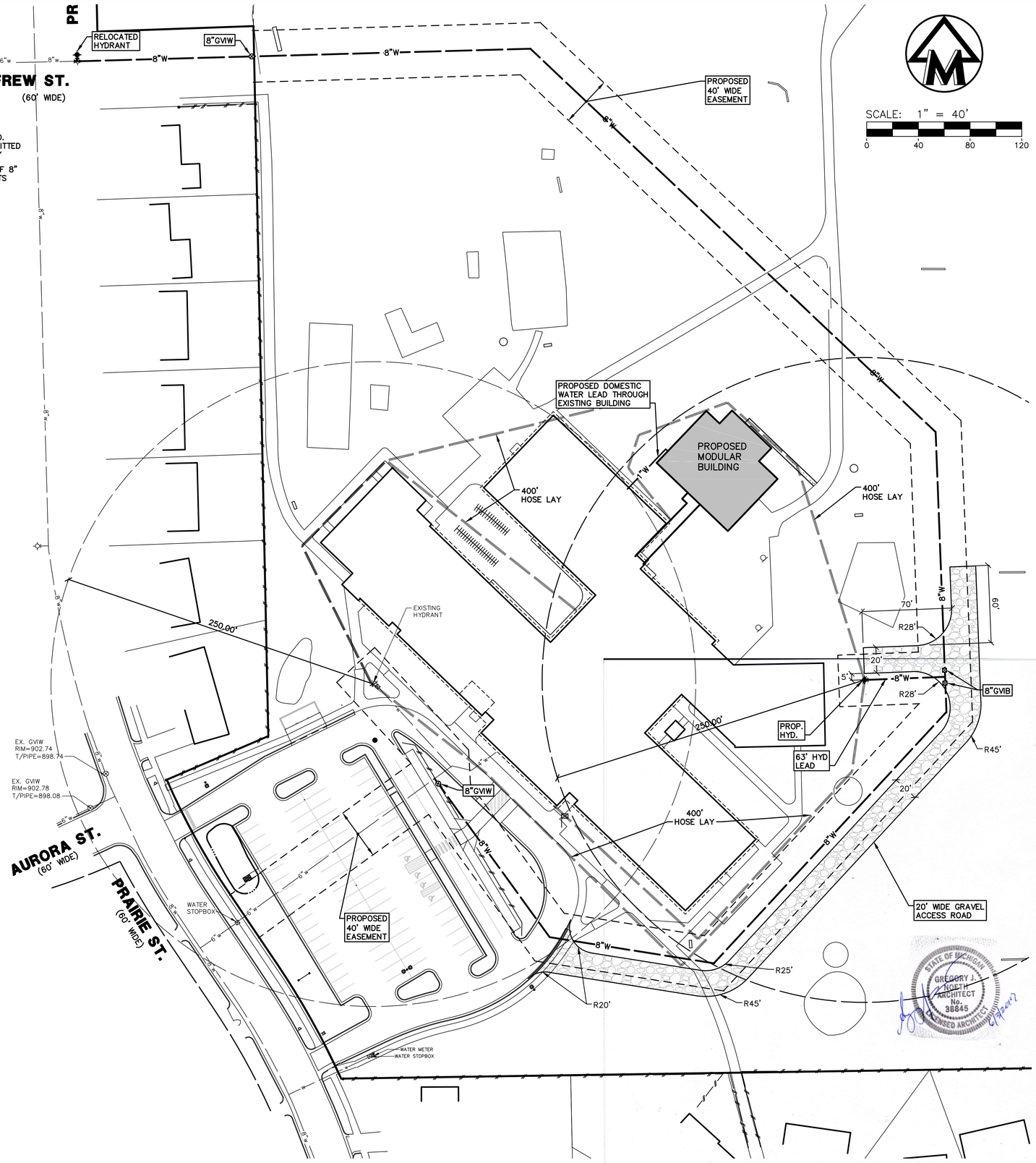
EXISTING 6" HYD. LEAD NOT PERMITTED IN HIGH DENSITY

PROPOSED 63 LF 8" HYD. LEAD MEETS REQUIREMENTS



CITY OF ANN ARBOR FIRE TRUCK MANEUVERING

SCALE: 1"=60'



The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

811 Know what's below. Call before you dig.

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THURSTON ELEMENTARY

MODULAR BUILDING
FIRE PROTECTION PLAN

8

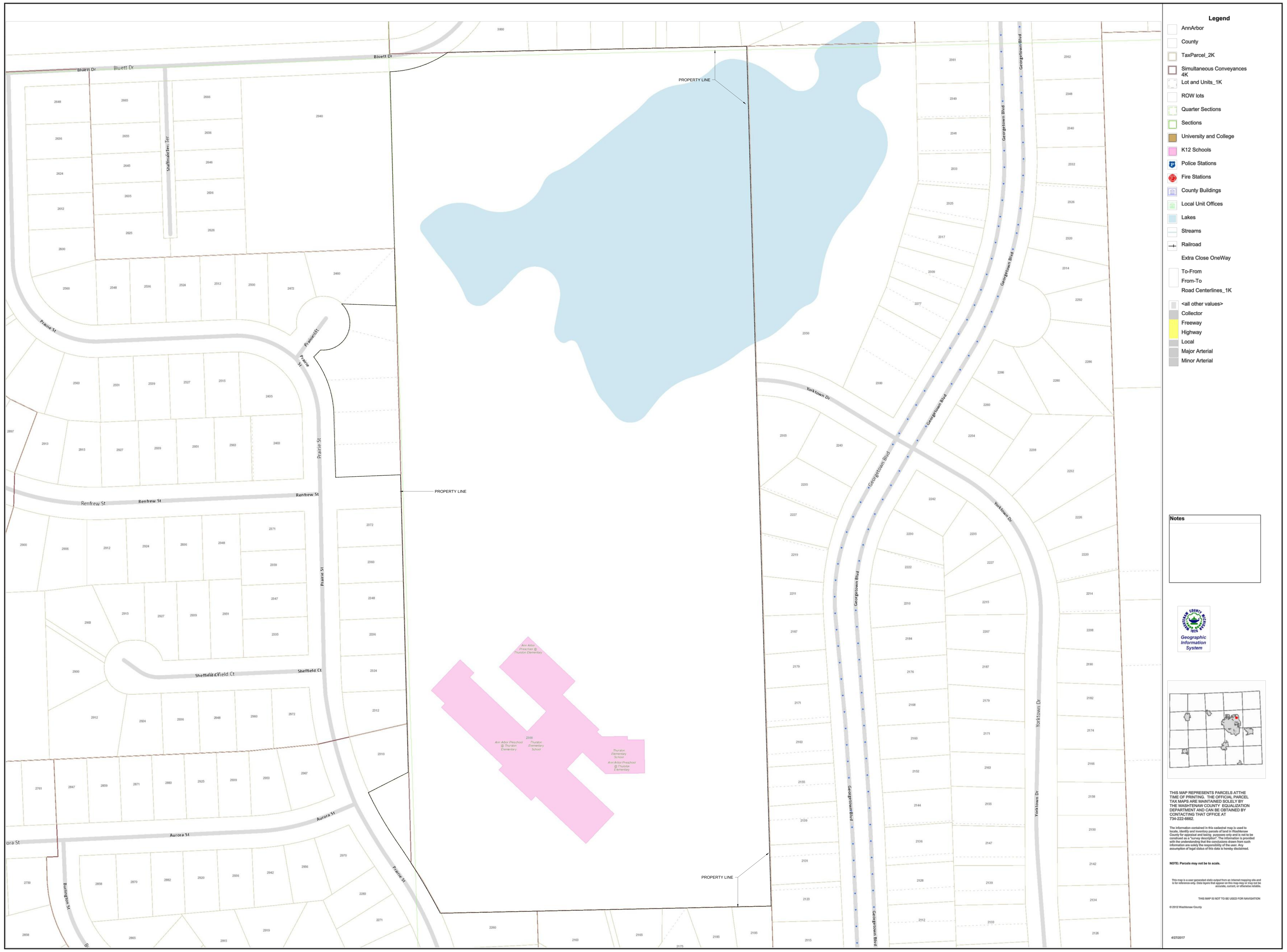
DATE: 06-14-2017
SHEET 8 OF 9
CADD: TPH
ENG: TPH
PM: ROW
TECH:
17142FP1.dwg

JOB No. 17142

REVISIONS:

REV.	DATE

STATE OF MICHIGAN
GREGORY J. NOETH
ARCHITECT
No. 38845
LICENSED ARCHITECT
6/14/2017



LEGAL DESCRIPTION

BEG W 1/4 COR SEC 14, T2S R6E TH N 89 DEG 08 MIN 20 SEC E 660.75 FT TH S 1 DEG 12 MIN E 1591.32 FT TH S 89 DEG 08 MIN 20 SEC W 610.0 FT TH NLY 101.96 FT ALG ARC OF CIR CURVE CONCAVE SW R=6602.95 FT CHORD N 29 DEG 12 MIN 20 SEC W 101. 84 FT TH N 34 DEG 03 MIN W 5.62 FT TH N 1 DEG 11 MIN 40 SEC W 1496.99 FT TO POB PART W 1/2 SEC 14 T2S R6E ALSO OUTLOT C NORTH CAMPUS HEIGHTS ALSO LOTS 121 122 123 124 & 125 NORTH CAMPUS HEIGHTS NO 3 EXC BEG AT NW COR OF SD LOT 125 TH NE 144.09 FT TH S 106 FT TH WLY TO POB

STATE OF MICHIGAN GREGORY J. NOETH ARCHITECT No. 38845 LICENSED ARCHITECT

6/13/2017

NORTH

BOUNDARY SURVEY

SCALE:1"=100'-0"

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ANN ARBOR PUBLIC SCHOOLS
THURSTON ELEMENTARY SCHOOL

Description: BOUNDARY SURVEY

Drawn By: CHUCK KEEL

Date: 04/19/2017

Quote Number:

Page Number: 9

Scale: 1/2"='-0"