CONDARY SCHOOL

317 MARSHALL AVENUE ST. PAUL, MN 55102

Project Description

GOVERNING CODE: BUILDING TYPE: PRIMARY OCCUPANCY TYPE: NEW CONSTRUCTION: REMODELING: CONSTRUCTION MATERIALS:

2015 MINNESOTA BUILDING CODE TYPE I B, SPRINKLERED GROUPE 32,880 SF

PROGRAM DESCRIPTION:

12,080 SF STEEL STRUCTURE, LOAD BEARING MASONRY, STRUCTURAL PRECAST CONCRETE, ALUMINUM FRAME WINDOWS

NEW HIGHER GROUND ACADEMY SCHOOL FOR 450 STUDENTS, GRADES 7-12, ON AN EXISTING BUILDING SITE ADJACENT TO THE SAINT PAUL COLLEGE CAMPUS IN SAINT PAUL, MN.

SUPPORTED BY:

- SCIENCE LABS, INCLUDING CHEMISTRY/PHYSICS, BIOLOGY, AND STEAM FOR HS AND

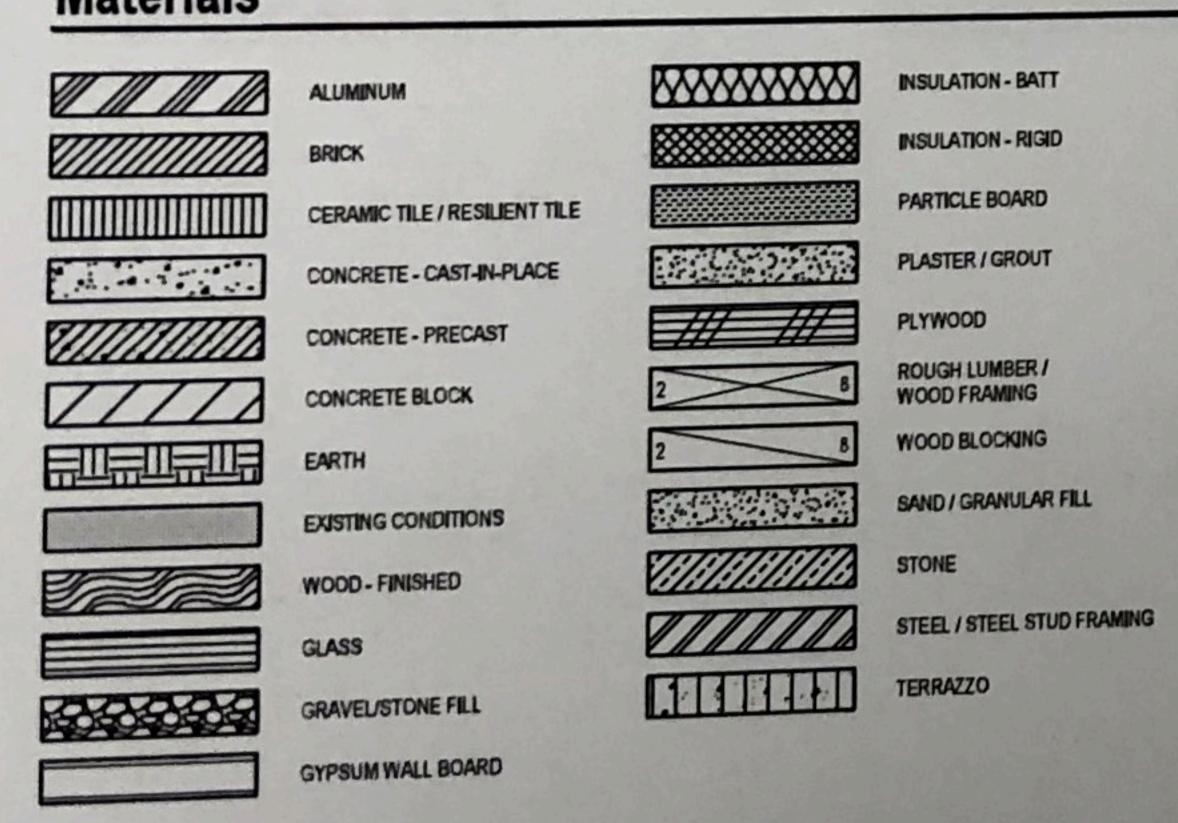
MIDDLE SCHOOL - SHARED ART CLASSROOM

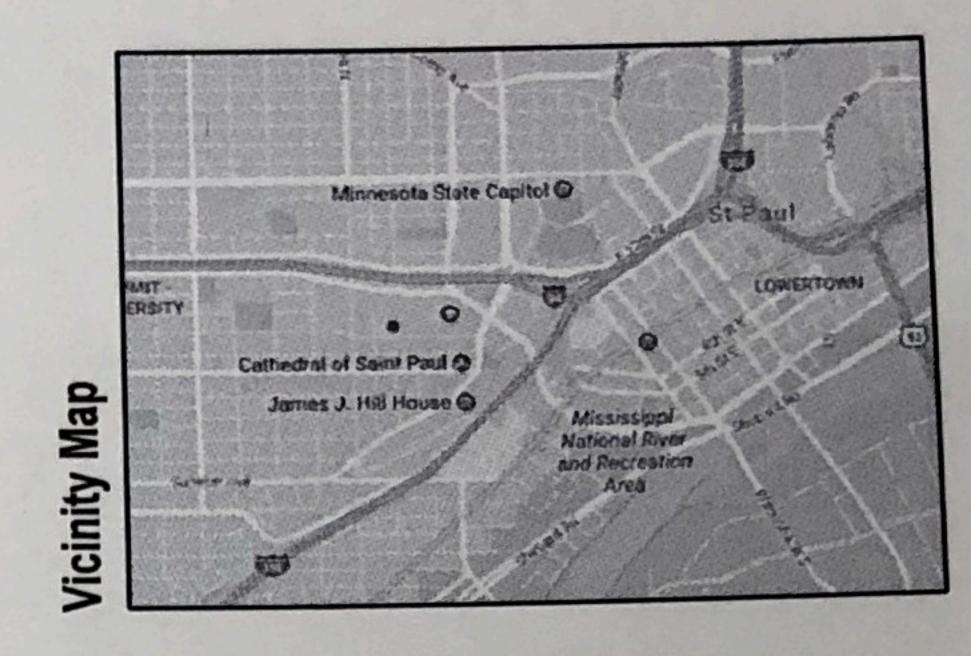
- MULTI-PURPOSE CLASSROOM AUDITORIUM

- PUBLIC COMMONS WITH CULINARY SUPPORT AND CAFETERIA - ADMINISTRATIVE AND COUNSELOR OFFICES

-SITE DEVELOPMENT INCLUDING BUS AND CAR DROP-OFF AND ALL ASSOCIATED WALKS, EXTERIOR SEATING, AND PLANTINGS

Materials

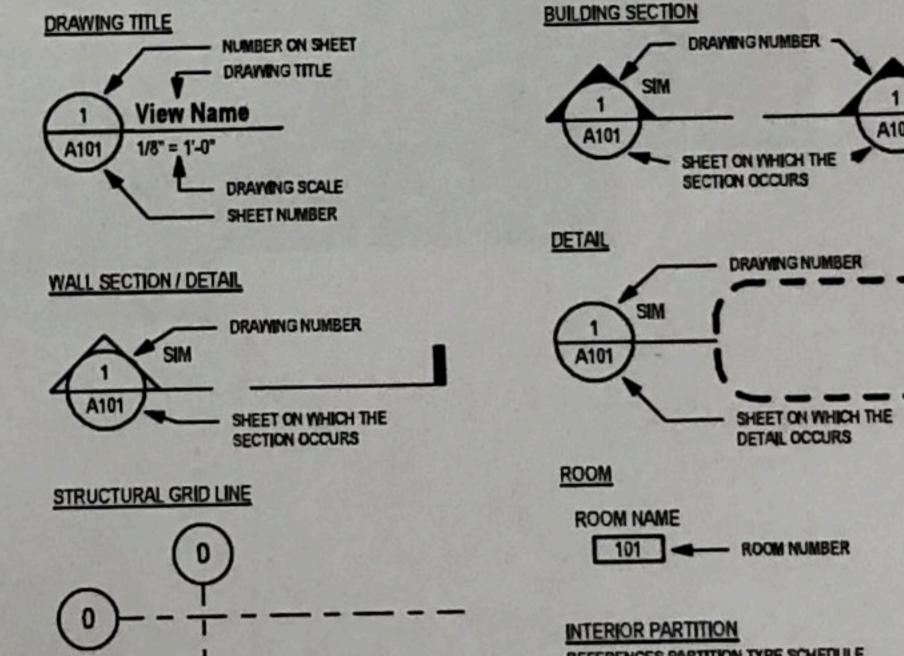


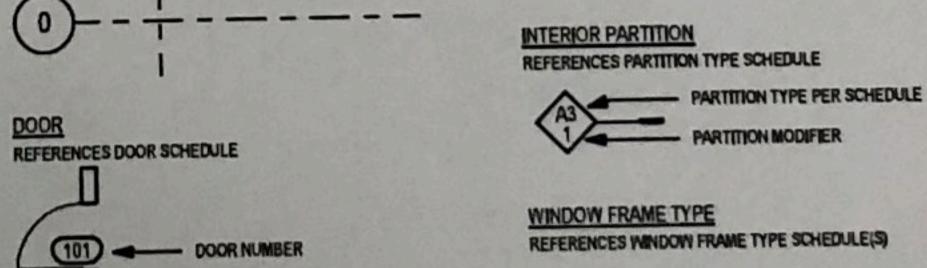


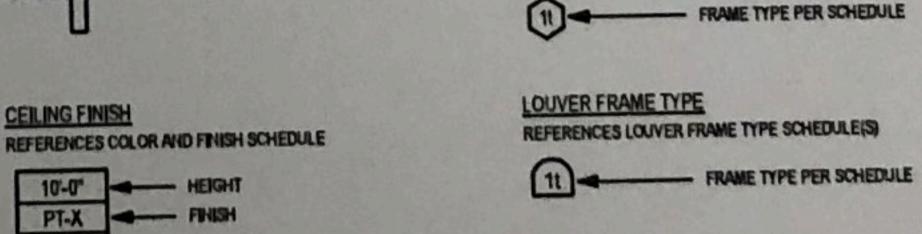
Sheet Index

SHEET NUMBER	SHEET NAME
GENERAL	
G001	GENERAL INFORMATION
CIVIL	
C1.0	DEMOLITION AND EROSION CONTROL PLAN
C2.0	GRADING, DRAINAGE, AND EROSION CONTROL PLAN
C3.0	UTILITY PLAN
C4.0	PAVING AND GEOMETRIC PLAN
C5.0	CIVIL DETAILS
C6.0	SWPPP
LANDSCAPE	
L101	SITE LAYOUT PLAN
L200	SITE PLANTING PLAN
L300	LANDSCAPE DETAILS
ARCHITECTURA	AL .
A100	BASEMENT FLOOR PLAN
A110	LEVEL 1 FLOOR PLAN
A120	LEVEL 2 FLOOR PLAN
A200	ROOF PLAN
A300	ELEVATIONS
7000	

Graphic Symbols







FLOOR FINISH TRANSITION

FLR-X FLR-X

COMPASS ROSE

REFERENCES COLOR AND FINISH SCHEDULE

HEIGHT/ELEVATION BENCHMARKS

PRIMARY DATUM

SECONDARY DATUM

REFERENCES SHEET KEYNOTE LEGEND

DATUMS - WORKPOINT AND CENTER POINT

PCP

C * CLOCK D * SMOKE DETECTOR E * ELECTRICAL S * SPEAKER T * THERMOSTAT

EXTURE / EQUIPMENT TELEVATION!

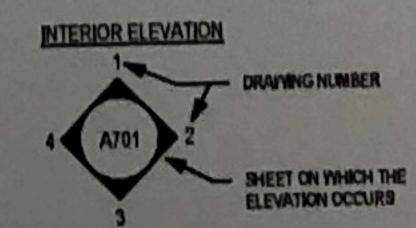
FLOORING TYPES PER SCHEDULE

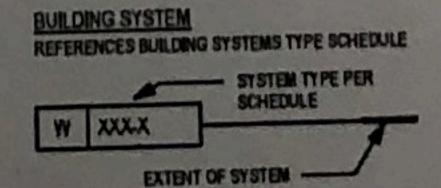
- PROJECT NORTH

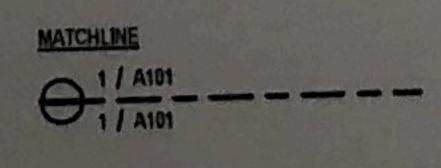
- TRUE NORTH

EXTERIOR ELEVATION - DRAINING NUMBER

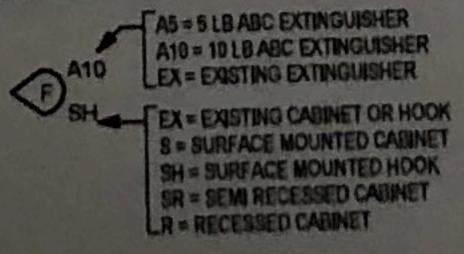
- SHEET ON WHICH THE ELEVATION OCCURS



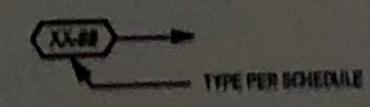


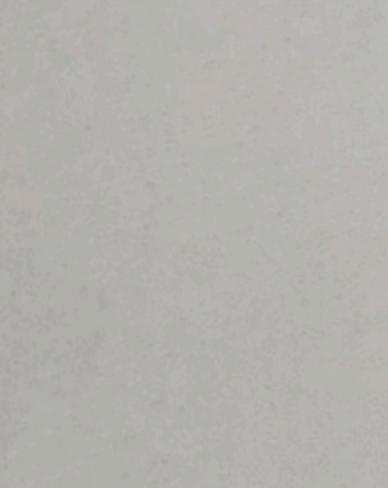


FIRE EXTINGUISHERS



FINISHES / FURNITURE / EQUIPMENT





CUNINGHAM

Curingham Group Architecture, Inc.

SL Anthony Main 201 Main St, SE Suite 325 Minneapolis, MN 55414

Tet 612 379 3400 Fax: 612 379 4400

Consultant

Revisions

PRELIMINARY NOT FOR CONSTRUCTION

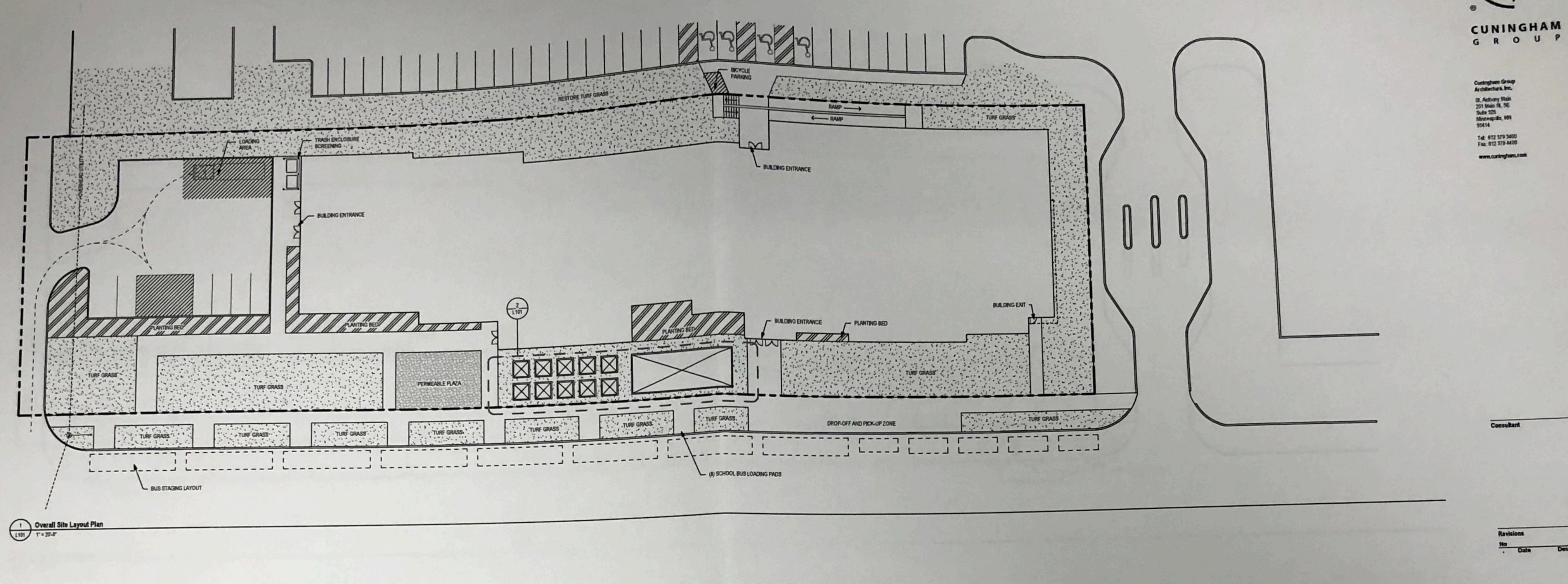
Document Phase:	Site Plan Review
Dute:	11/22/2017
PIC/AIC:	
Drawn By:	
Checked By:	
Comm. No.:	16-011
Project Title	

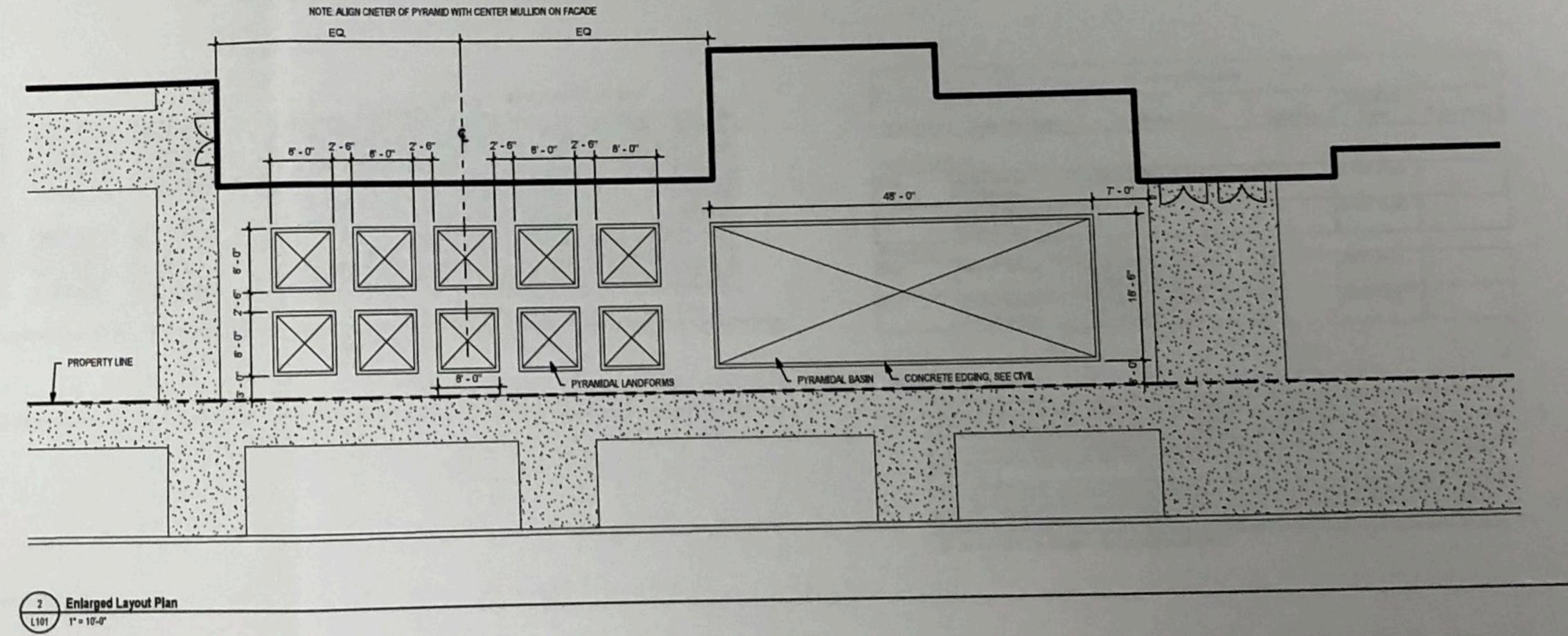
Higher Ground Academy New Secondary School

> Sheet Title GENERAL INFORMATION

Sheet Number

CREATE OF PERSONS AND ADDRESS OF MARKET PRICES





PRELIMINARY NOT FOR CONSTRUCTION

Doorwest Phase: Site Plan Review

Date: 11,22,2017

PIC / AIC: NARY

Drawn By: JMS

Checked By: DMM

Correr, No.: 18-0117

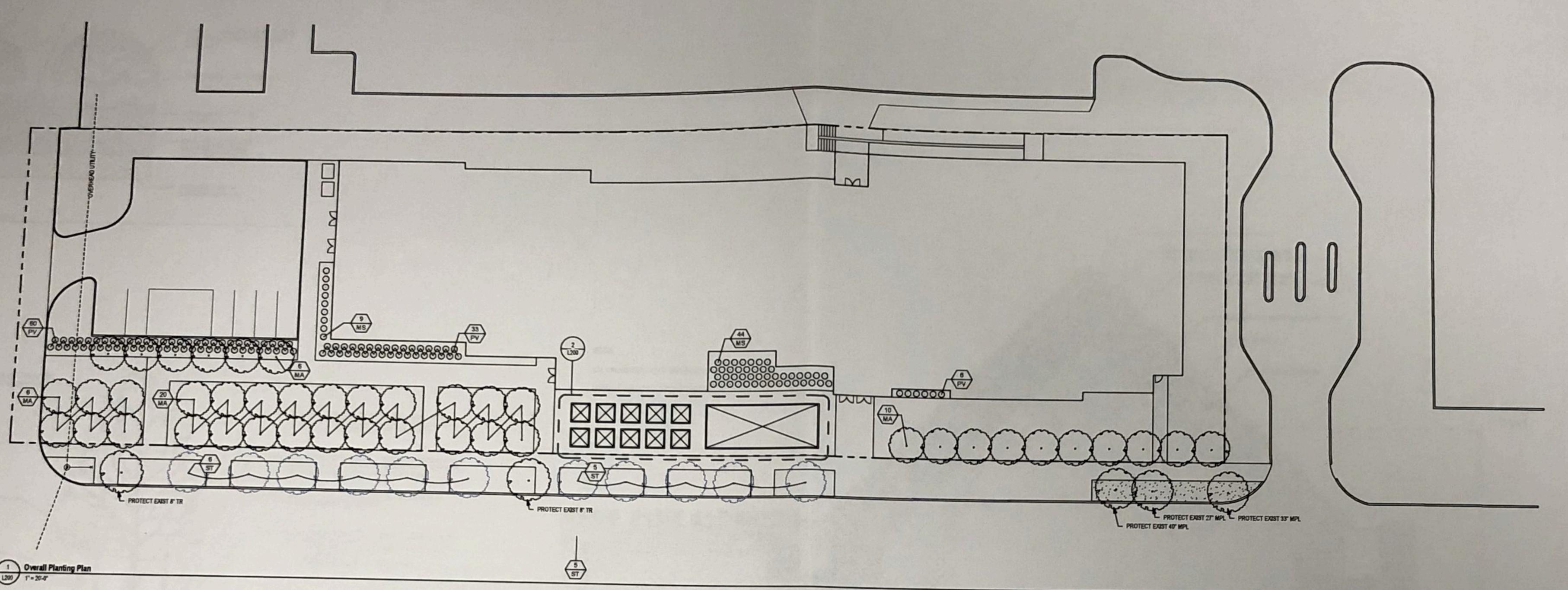
Higher Ground Academy New Secondary School

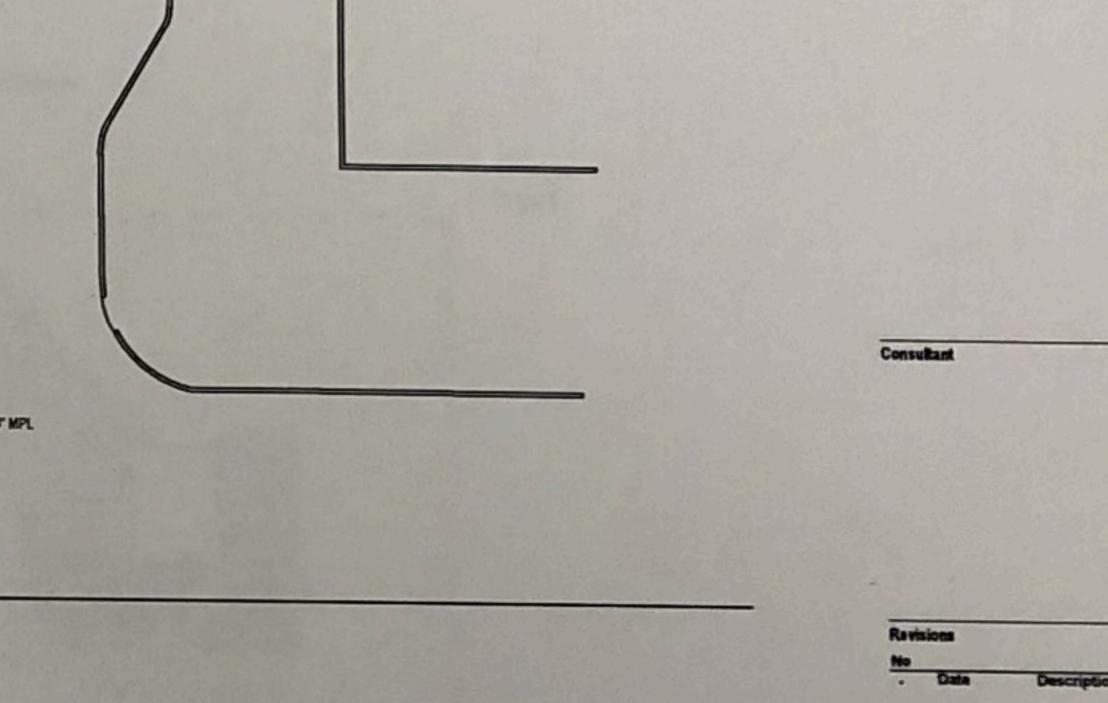
Sheet Title
Site Layout And
Surfacing Plan

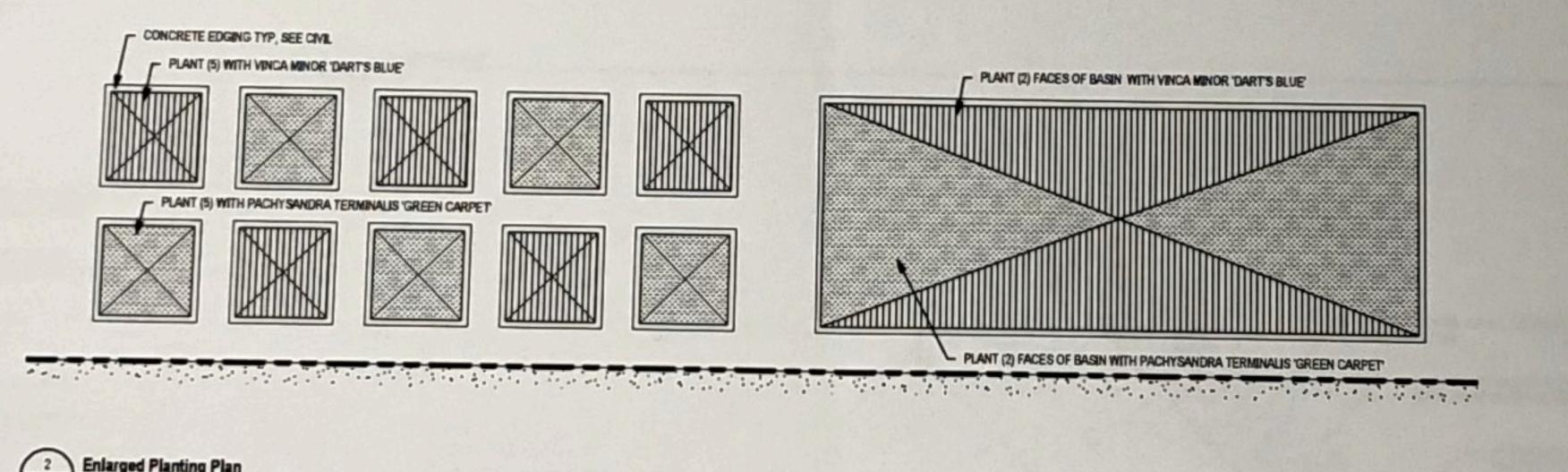
Sheet Number

L101

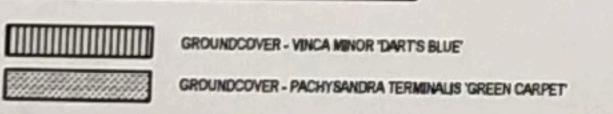
CATAN (D. SELA) Combant gree Annexant per la pales paramet







HATCH LEGEND



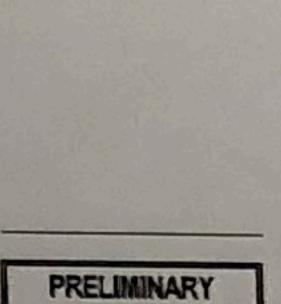
		Planting Schedul	le		
Type Mark	Common Name	Botanical Name	Quantity	Installed Size	Comments
Deciduous 1	ree				
MA	Adirondack Crabapple	Malus 'Adirondack'	37	2-1/2" B&B	
ST	City of Saint Paul Street Tree		11	2-1/2" B&B	0.000
Perennial				1)	
MS	Flame Grass	Miscanthus sinensis 'Purpurascens'	55	#3 CONT	
PV	Shenandoah Switch Grass	Panicum virgatum ' Shenandoah'	98	#3 CONT	

- THE REMOVAL PRUNING, AND/OR PLANTING OF TREES ON THE PUBLIC BOULEVARD REQUIRES AN APPROVED PERMIT FROM THE CITY
- FORESTER (851-832-0137). ANY WORK MUST BE COMPLETED BY A LICENSED TREE CONTRACTOR.

 CONSTRUCTION SUPPLIES, MATERIALS, SPOILS, EQUIPMENT, AND VEHICLES SHALL NOT BE STORED OR OPERATED WITHIN THE DRIP LINE OF ANY PUBLIC STREET TREE OR ON TURF BOULEVARDS WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY FORESTER, IF THE BOULEVARD MUST BE USED FOR CONSTRUCTION ACTIVITIES, SITE ACCESS ROUTES, MATERIAL STORAGE OR OTHER RELATED ACTIVITIES, PROTECTIVE MEASURES APPROVED BY THE CITY FORESTER SHALL BE TAKEN TO REDUCE SCIL COMPACTION AND PROTECT TREES, FROM DAMAGE
- FROM DAMAGE,

 STREET TREES SHALL BE PROTECTED BY ESTABLISHING A TREE PROTECTION ZONE USING 4 TALL FENCING INSTALLED AT THE DRIP LINE
 OF THE TREE, TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE WORK AND MAINTAINED FOR THE
 DURATION OF THE PROJECT. PROPOSED WORK WITHIN, OR CHANGES TO THE LOCATION OF TREE PROTECTION FENCING SHALL BE
 REVIEWED BY THE CITY FORESTER PRIOR TO ALTERATION.

CONTRACTOR SHALL CONTACT THE CITY FORESTER (85 L812-2437), PRIOR TO DEMOLITION OR OTHER LAND DISTURBANCE ASSOCIATED WITH SITE CONSTRUCTION, TO VERIFY TREE PROTECTION MEASURES.	
---	--



NOT FOR

CUNINGHAM

St. Anthony Main 201 Main St. SE Suite 325 Menneapolis, MN 55414

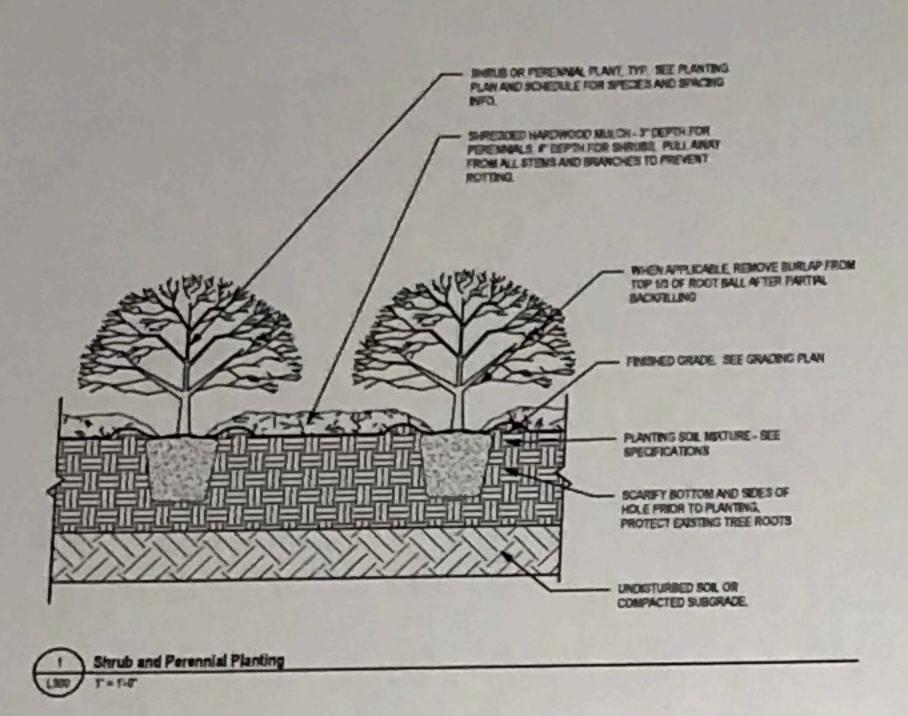
Tel: 612 379 3400 Fax: 612 379 4400

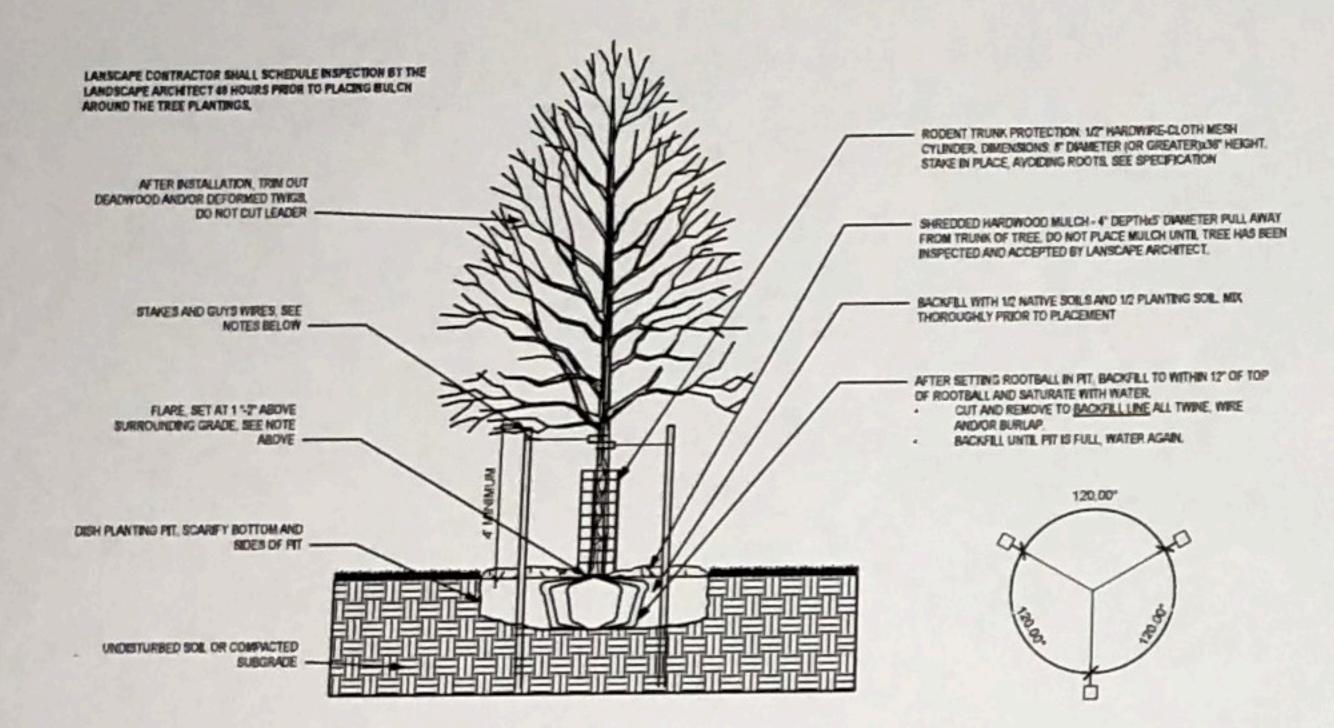
Document Photos	Str Plan Remore
Date:	77.202.200T
PICIAL	NORM
Drem &	365
Oredel B:	Des

Higher Ground Academy New Secondary School

Site Planting Plan

WF D FINESCHAPEN SERVER





PRIOR TO DELIVERY TO THE SITE THE CONTRACTOR SHALL LOCATE THE BUTTRESS ROOTS OR TRUNK FLAREOF EACH TREE, IF FLARE IS LOCATED MORE THAN 2" DOWN FOR THE TOP OF THE ROOTBALL THE
TREE IS REJECTED AND SHALL NOT BE DELIVERED TO THE SITE.

ONCE THE PORPERLY GROWN TREE IS DELIVERED TO THE SITE, MEASURE THE DISTANCE BETWEEN TOP

OF THE BUTTRESS ROOTS AND THE BOTTOM OF THE ROOTBALL. SUBTRACT 2" SUBTRACT 2" TO DETERMINE DEPTH OF PLANTING PIT. . DIG PIT TO DEPTH DETERMINED ABOVE PIT SHALL BE DISHED WITH SIDEWALLS AS SHOWN BELDW. SCARFT WALLS AND BOTTOM OF PIT.

SET TREE IN PIT SO THAT THE FLARE IS ONE-TWO INCHES ABOVE SURROUNDING GRADE. IN ALL AREAS WITH HEAVY CLAY OR POORLY DRAMED SOLS (MOTTLING), CONTACT LANDSCAPE ARCHITECT, TREE MAY BE RELOCATED OR THE ROOTBALLFURTHER ELEVATED.

REMOVE ANY SOIL FROM TOP OF ROOTBALL TO EXPOSE TOP FLARE. THE LANDCSCAPE ARCHITECT WILL NOT ACCEPT ANY THEE UNLESS THE FLARE IS VISIBLE. BACKFEL PLANTING PIT TO WITHIN 12" OF GRADE AND THOROUGHLY WATER.

REMOVE BURLAP, WIRE AND ALL ROPE FROM THE TOP 17 OF THE ROOT BALL.

BACKFALL TO THE TOP OF THE ROOTBALL . DO NOT CREATE WATERING RING

. CONTACT LANDSCAPE ARCHITECT TO INSPECT PLANTING PRIOR TO PLACING ANY MULCH OVER THE

GUY ASSEMBLY 16" POLYPROPYLENE OR POLYETHYLENE (40 MIL) 1 1/2" WIDE STRIP (TYP) DOUBLE STRAND 14 GA WIRE AND 3 STEEL STAKES OR SIGN POSTS AT 120 DEGRESS O.C. (SEE STAKING DIAGRAM)

GUY ASSEMBLY MANDATORY ONLY FOR THOSE TREES WITH 4" CALIPER OR GREATER AND ALL BARE ROOT TREES. CONTRACTOR SHALL MAINTAIN TREE IN A PLUMB POSITION FOR THE DURATION

COORDINATE STAKING TO INSURE UNIFORM ORIENTATION OF GUY LINES AND STAKES.

CONTAINER GROWN TREES

LOCATE BUTTRESS ROOTS (SEE NOTETS ABOVE)

REMOVE EXCESS SOIL FROM TOP OF ROOT BALL TO EXPOSE TRUNK FLARE, MEASURE
DEPTH OF ROOTBALL TO DETERMINE DEPTH OF PLANTINGPIT. TO ELIMINATE ENCIRCLING ROOTS, MAKE SEVERAL VERTICAL SLITS AROUND PERIMETER F ROOT MASS FROM TOP TO BOTTOM OF THE ROOTBALL DEPTH OF SLITS INTO THE

TREES WILL BE REJECTED FOR THE FOLLOWING REASONS:

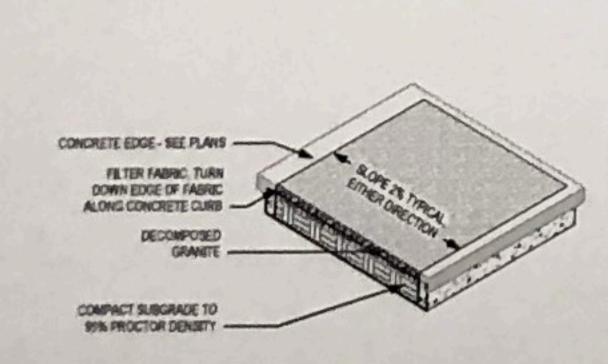
ROOTBALL SHALL BE AT LEAST ?

 POOR FORM DAMAGED TRUNK
 BURIED ROOT FLARES

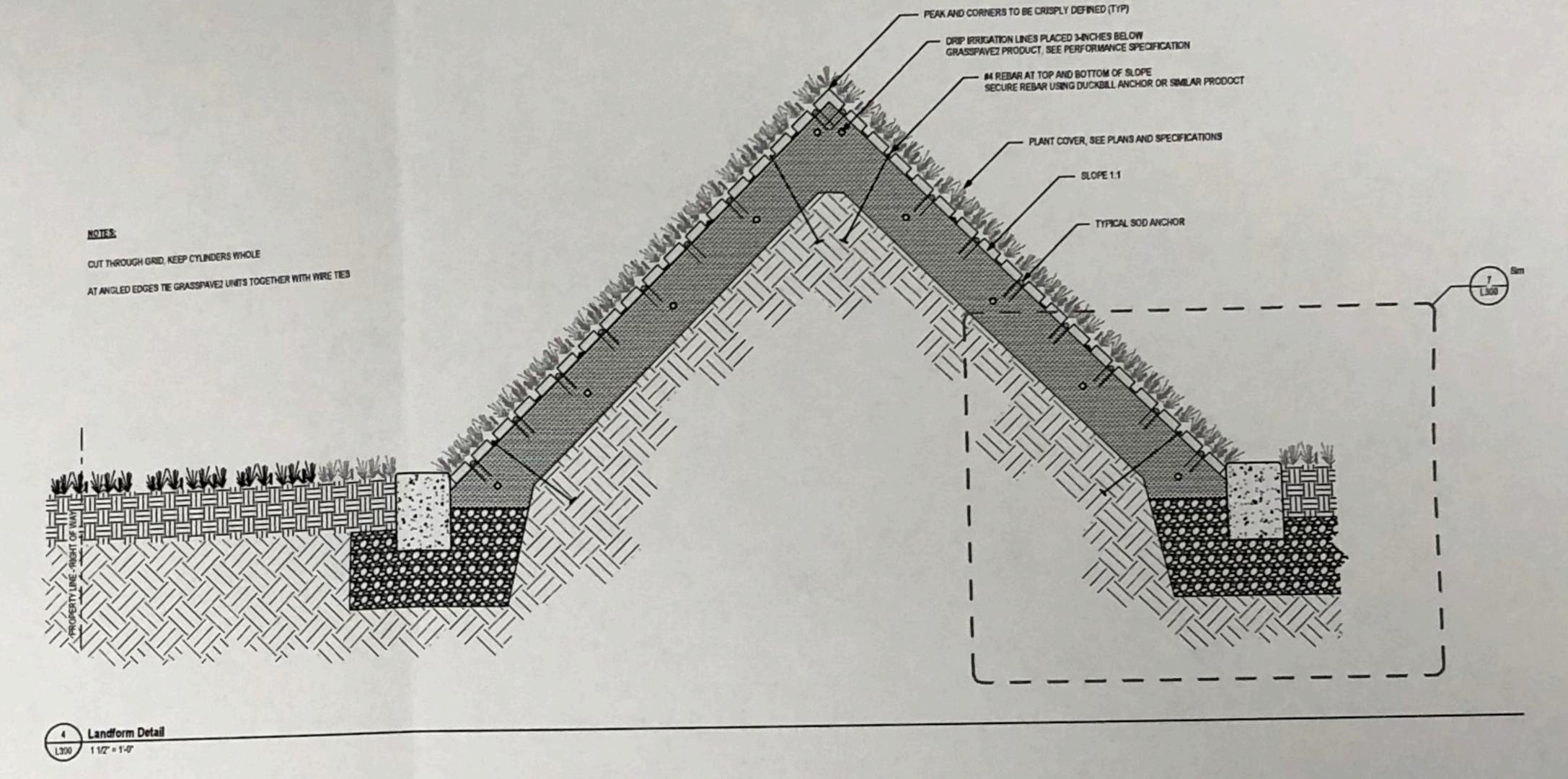
ENCIRCLING TRANSPORT ROOTS

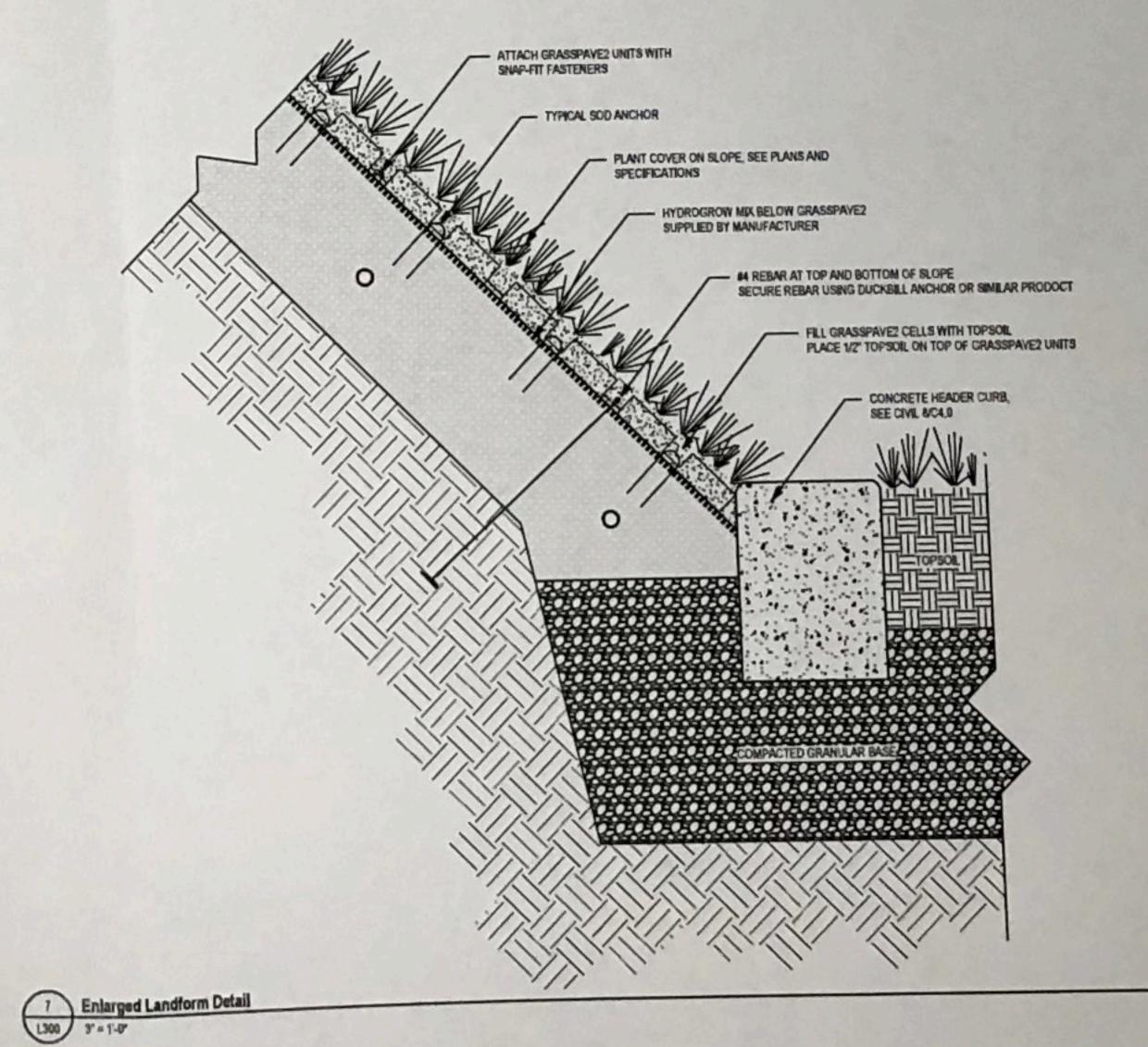
UNCONSOLIDATED ROOTBALL BOIL (DUE TO EXCESSIVE HANDLING)

Decomposed Granite Path with Curbs Detail



- SHRUB OR PERENNAL PLANT, TYP, SEE PLANTING PLAN AND SCHEDULE FOR SPECIES AND SPACING INFO, SHRUB OR PERENNAL PLANT, TYP, SEE PLANTING PLAN AND SCHEDULE FOR SPECIES AND SPACING INFO.





CUNINGHAM GROUP

201 Main St. SE Suite 325 Minneapolis, MN

Tet 612 379 3400 Fax 612 379 4400 www.curingham.com

NOT FOR

Ste Plan Review

Higher Ground Academy New Secondary School

Landscape Details

Memorandum

To:

Tia Anderson

From:

Dan Grothe

Project:

Higher Ground Academy

Project Number:

16-0117

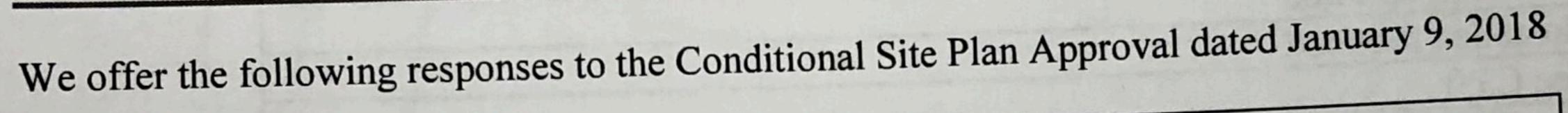
Subject:

Updated Site Plan Review

Date:

March 12, 2018

Copy To:



Item	Response
2b	See updated Civil drawings for requested information. See updated Civil drawings for requested information.
2c	- I - Alexen AVIATINA DEADELLA INITIALIZATION
2d	Project is now contained within existing property sounds. A variance for the rear yard setback will be requested for the proposed building
	addition. (225 students in grades 10-12 @ 1 stall/10
2e	Zoning requires a total of 63 spaces. (225 students in grades 10-12 @ 1 stall/10 = 23 + 40 staff = 63 parking spaces). Higher Ground Acadamey and Saint Paul
	College will enter into a shared parking agreement will not affect SPC's ability to provide spaces. The shared parking agreement will not affect SPC's ability to provide
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2f	the 1,376 required spaces. Per item 2e,. SPC and HGA will have a shared parking agreement.
多	See items 2e and 2f.
2g 2h	See items 2e and 2f. Variances will be requested for the following items: lot coverage, rear-yard
2i	setback, and shared off-street parking agreement. Drop-off/pick-up zone identified on sheet L101. Card access to be part of
	1 1 -1-ing agreement with SPC.
2j	Bicycle parking location identified on sheet L101
2k	LADA norking identified on LIUI
21	Loading dock has been revised. See sheet Livi
2m	Screening identified on sheet L101
2n	See updated Landscape and Civil documents
20	
2q	1 2/4 200 for identification of front door and C4.0 for connection
29	TIT' 1 and door nercentage off South Cicvation is 55.676.
2r	Exterior lighting will comply with all required ordnances.
3b	Coo item 2e
1	Signage permit will be applied for in the future.
5a	Note added to demolition drawing sheet C1.0
-	No action required
7	No action required
0	Identified exception will be provided.
0	No action required
10a	Appropriate permits will be applied for.
	Signed drawings will be submitted for permit.
10b	See sheet C4.0
10c	See sheet C4.0
10d	See cheet C10
10e	Will be addressed with City and with adjacent property owner.
10f	
10g	See item 10f



Celebrating 50 Years

Cuningham Group Architecture, Inc.

St. Anthony Main 201 Main Street SE Suite 325 Minneapolis, MN 55414

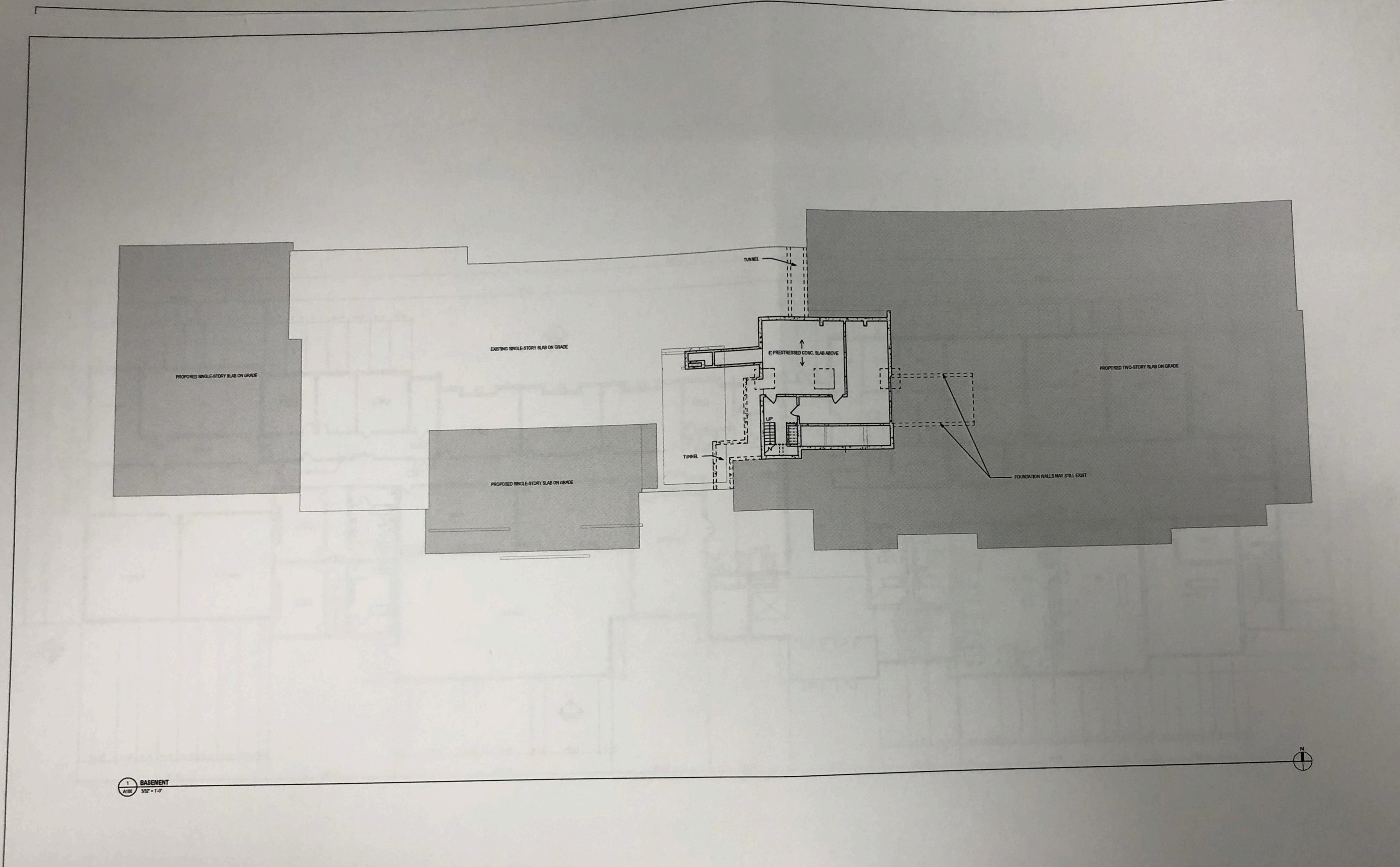
Tel: 612 379 3400 Fax: 612 379 4400

www.cuningham.com

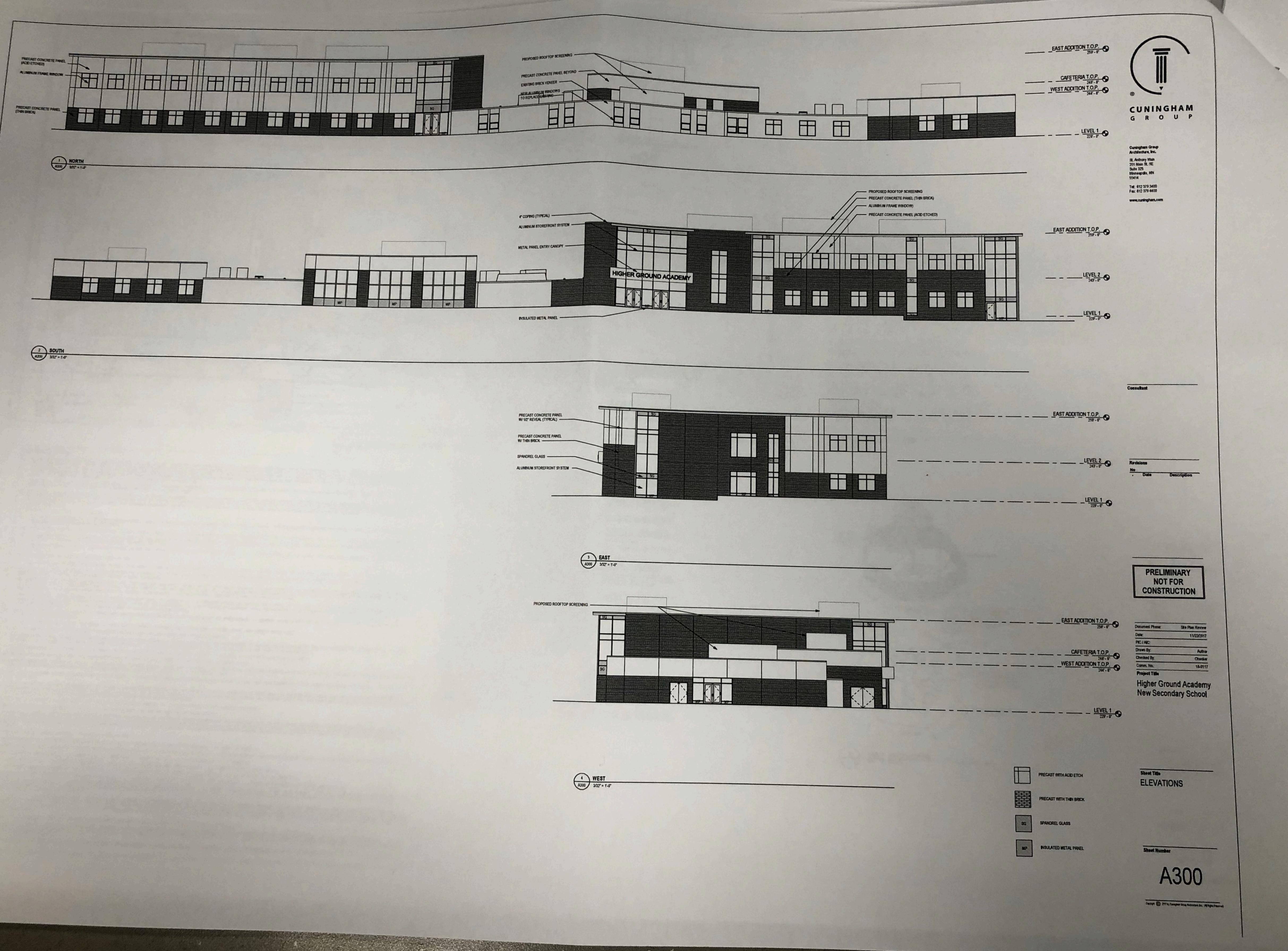
10h	See detail 4/L300.
10i	
11a	Requested revisions to ST. PAUL'S NOTES have been made. See L200 and C4.0
11b	No action required at this time.
11c	See C4.0.
11d	See ST. PAUL'S NOTES 5 and 6.
12	No action required
13a	No action required
13b	See C3.0
13c	See C3.0
14	No action required
15a	See C3.0
15c	See 2/C3.1
15d-e	No action required at this time
15f-j	Requested drawings will be submitted with permit application.
15k	See ST. PAUL'S NOTES 21-24
16a	Fire Department Connection visibility will be maintained.
16b	Required identifying signage will be provided.
16c	Sprinkler system will be provided.
16d	HGA to coordinate north side access with SPC.
16e	See C1.0
17a	See L200 for planting layout.
17b	See L200
17e	See L200
18	No action required
19	MPCA permit will be obtained.
20a	Capitol Region Watershed permit was applied for on 2.28.18.
21	All referenced codes and ordnances will be met.
22	All required building permits will be applied for prior to the start of
	construction.
23	SAC fee will be determined and submitted during permitting process.
	D Process.

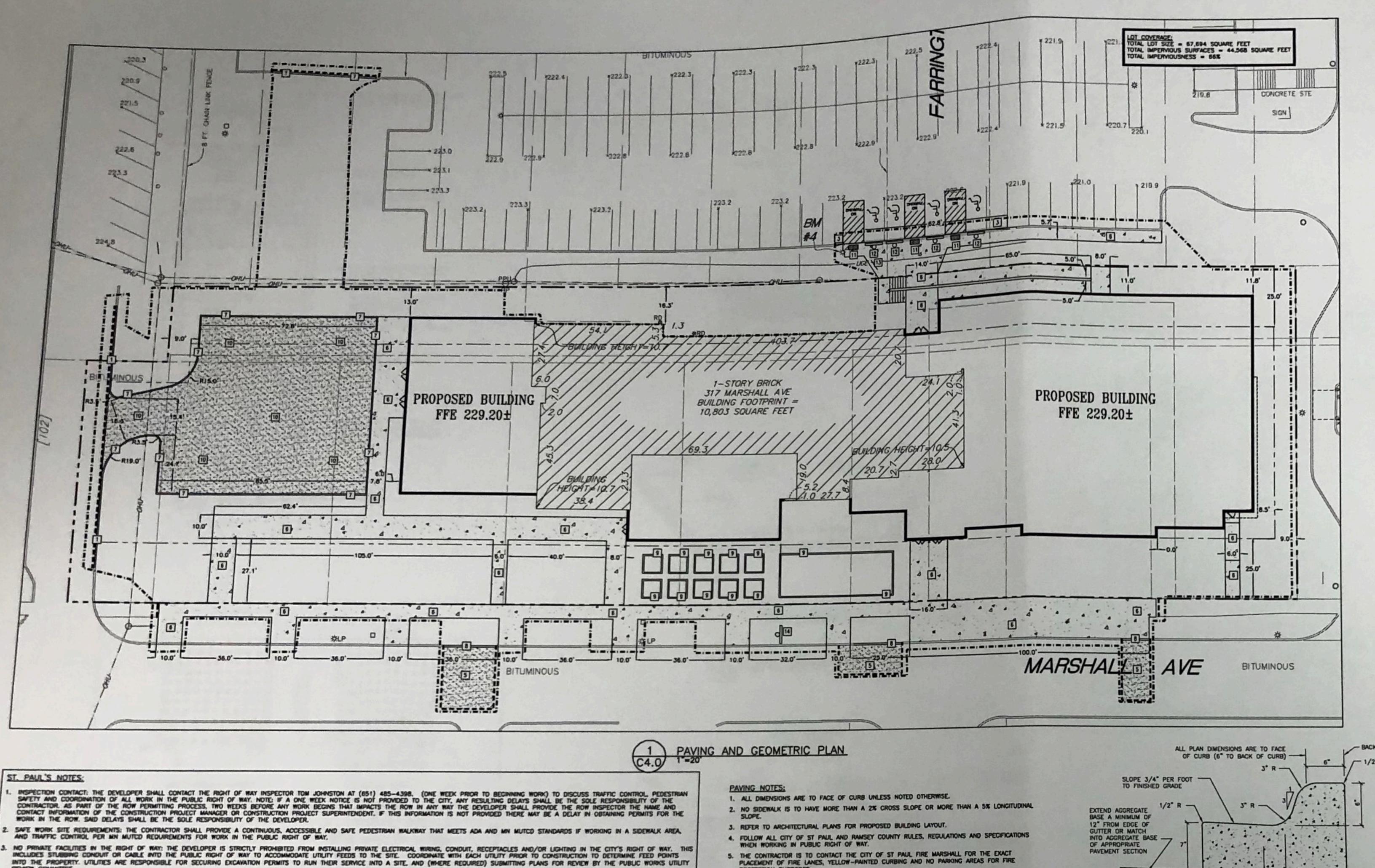
CUN

END OF MEMO



CUNINGH G R O U





ORDERING DESTRUCTION AND EXCANATION PERMITS: CONTACT PUBLIC WORKS RIGHT OF WAY SERVICE DESK AT (651) 266-6151. IT IS STRONGLY RECOMMENDED THAT CONTRACTORS CALL FOR COST ESTIMATES PRICE

DESTRUCTION PERMITS: THE CONTRACTOR MUST DETAIN AN DESTRUCTION PERMIT IF CONSTRUCTION (INCLUDING SILT FENCES) WILL BLOCK CITY STREETS, SIDEMALKS OR ALLEYS, OR IF DRIVING OVER CURBS.

4.4. FAILURE TO SECURE PERMITS: FAILURE TO SECURE OBSTRUCTION PERMITS OR EXCAVATION PERMITS WILL RESULT IN A DOUBLE-PERMIT FEE AND OTHER FEES REQUIRED UNDER CITY OF ST. PAUL LEGISLATIVE

ALL WORK ON CURBS, DRIVEWAYS, AND SIDEWALKS WITHIN THE PUBLIC RIGHT OF WAY MUST BE DONE BY A LICENSED AND BONDED CONTRACTOR LINDER A PERMIT FROM PUBLIC WORKS SIDEWALK SECTION

SIGNS RESULATING PARKING AND/OR TRAFFIC ON PRIVATE PROPERTY SHALL BE INSTALLED BY THE PROPERTY OWNER OR CONTRACTOR OUTSIDE OF THE PUBLIC RIGHT-OF-WAY. SIGNS APPROVED BY PUBLIC WORKS TRAFFIC ENGINEERING REGULATING PARKING AND/OR TRAFFIC IN THE PUBLIC RIGHT-OF-WAY FOR THIS DEVELOPMENT SHALL BE INSTALLED BY CITY FORCES AT THE EXPENSE OF THE DEVELOPMENT.

ASSANDONING EXISTING SEWER SERVICE OR MAKING NEW CONNECTIONS TO CITY SEWER MUST BE DONE TO CITY STANDARDS BY A LICENSED HOUSE DRAIN CONTRACTOR LINDER A PERMIT FROM PUBLIC WORKS

WE CONTRACTOR SHALL CONTACT JOHN MICHAMARA, GENERAL FOREMAN, LIGHTING - SIGNAL MAINTENANCE, (651-266-9780), IF REMOVAL OR RELOCATION OF EXISTING FACILITIES IS REQUIRED OR IN THE EVENT

SINESS SIGNS WILL REQUIRE A SEPARATE REVIEW AND SIGN PERMIT FROM THE DEPARTMENT OF SAFETY AND INSPECTIONS. SITE PLAN APPROVAL DOES NOT CONSTITUTE APPROVAL OF BUSINESS SIGNS SHOWN ON

MUST SE TAKEN DURING CONSTRUCTION AND EXCAVATION TO PROTECT ANY SURVEY MONUMENTS AND/OR PROPERTY IRONS, CALL SAM GIBSON OF PUBLIC WORKS SURVEYING (651-266-6075) IF YOU HAVE

HADATION FEES, PAVEMENT RESTORATION SHALL BE COMPLETED BY THE ST. PAUL PUBLIC WORKS STREET MAINTENANCE DIVISION, ALL RELATED COSTS ARE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR.

SEED THENCH BOX IS REQUIRED ON ALL EXCAVATIONS DEEPER THAN 5 FEET WHERE UNDERGROUND WORK OR INSPECTION IS TO BE PERFORMED BY SPRWS. LADDERS ARE REQUIRED AND MUST EXTEND AS A SUPPORT SYSTEM OR ANOTHER METHOD OF PROTECTION IS THE SUPPORT OF THE TRENCH. SPEET IN DEPTH MUST BE SIGNED OFF BY A REDISTERED PROFESSIONAL ENGINEER. EXCAVATED MATERIAL MUST BE KEPT A MINIMUM OF 2 FEET FROM THE EDGE OF THE

IN 3 FEET VENTICAL SEPARATION BETWEEN WATER AND SEWER PIPES OR A 12-INCH SEPARATION WITH HIGH DENSITY INSULATION PER SPRWS STANDARD PLATE 8-10 FOR TYPICAL WATER MAIN OFFSETS.

VETICAL OF THE DEVELOPMENT THAT HEDESSITATES TEMPORARY USE OF THE RIGHT-OF-WAY FOR CONSTRUCTION PURPOSES SHALL BE LIMITED TO EQUIPMENT, PERSONNEL, DEVICES AND APPURITENANCES BY REMOVED FOR DEVICES SUCH AS THE BACKS, ROCK BOLTS, H-PILES, LAGGING, TIMBERS, SHEET PILING, ETC. THAT THE

3291 3 OF THE MINNESOTA BUILDING GOOD DETERS FINAL AUTHORITY OF ENCROACHMENTS INTO PUBLIC RIGHT-OF-WAY/PUBLIC PROPERTY TO THE LOCAL AUTHORITY. CITY LEGISLATIVE CODE GOVERNS

HIS SELOW EIGHT (8) FEET AS PROVIDED FOR IN MINNESOTA BUILDING CODE SECTION 3202.1. SAID ENCROACHMENTS WOULD REQUIRE AN ENCROACHMENT PERMIT FOR THE CITY PER CHAPTER 134 OF ISLATIVE CODE.

WEST OF THE PUBLIC RESIDENCE PROVIDED SUCH INSTALLATIONS ARE APPROVED BY PUBLIC WORKS, FOOTINGS MAY BE ALLOWED TO ENCROACH INTO CITY ROW NO MORE THAN TWELVE (12) INCHES

PER THE CITY'S STANGARD SPECIFICATION FOR STREET OPENINGS' POLICY, RESTORATION ON ROADWAY SURFACES LESS THAN 5 YEARS OLD WILL REQUIRE FULL WIDTH MILL AND OVERLAY OR ADDITIONAL

AND UNIT COSTS ARE FOUND IN STREET MAINTENANCE'S "GENERAL REQUIREMENTS - ALL RESTORATIONS" AND ARE AVAILABLE AT THE PERMIT OFFICE.

BLE MATER MAIN AND SERVICES TO BE INSTALLED ACCORDING TO SPRINS STANDARDS FOR INSTALLATION OF WATER MAINS', AND SPRINS WATER CODE'.

F DAMAGE TO THE LIGHTING OR SIGNAL UTILITIES. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY (AND RELATED COSTS) FOR ANY DAMAGE OR RELOCATIONS.

THE INSTALLATION OF PRIVATE ELECTRICAL WIRING, CONDUIT, RECEPTACLES AND/OR LIGHTING IS STRICTLY PROHIBITED IN THE CITY'S ROW (RIGHT OF WAY).

RESTORATION OF ASPHALT AND CONCRETE PAYEMENTS ARE PERFORMED BY THE PUBLIC WORKS STREET MAINTENANCE DIVISION, THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT TO THE CITY FOR THE COST OF THESE RESTORATIONS. THE CONTRACTOR SHALL CONTACT PUBLIC WORKS STREET MAINTENANCE TO SET UP A WORK ORDER PRIOR TO BEGINNING ANY REMOVALS IN THE STREET AT 651-292-6600, PROCEDURES

E.S. REQUIREMENTS TO WORK IN THE PUBLIC RIGHT OF WAY

HIM IS FEET OF COMER OVER ALL MATER HAVE AND SERVICES.

SEMER SECTION (651-266-6234).

CONTACT TRAFFIC ENGINEERING 651-268-6200 SIX WEEKS IN ADVANCE OF NEEDED SIGN(S).

EACT KEAN NELSON AT 851-266-9700 FOR ESTIMATE OF COSTS FOR PAVEMENT RESTURATION.

LL DUSTING MATER SERVICES NOT BOING REUSED MUST BE CUT-OFF AND ABANDONED PER SPRWS WATER CODE

SITE PLAN. CONTACT THIS DISTE OF DSI ZONING (651-266-9080) IF YOU HAVE ANY QUESTIONS ABOUT SIGNS.

OR SERVICES TO BE INSTALLED ACCORDING TO SPRINS (STANDARDS FOR THE INSTALLATION OF WATER MAINS.)

INTRACTOR IS TO CONTACT ZACH JORGENGEN, CITY FORESTER (651-632-2437) PRIOR TO IMPACTING ANY BOULEVARD TREES.

MUST SE MECHANICAL JOINT UNDERNEATH THE BUILDING FOOTPRINT AND UP TO TEN FEET OUTSIDE OF THE BUILDING FOOTPRINT.

MITTERIAL FOR 8" DUCTILE BROW PIPE MUST BE CLASS 52, PIPE MATERIAL FOR 6" AND 4" DUCTILE IRON PIPE MUST BE CLASS 53.

HIER SERVICE WE'VE BOXES MITHEN CONSTRUCTION AREA MUST BE EXPOSED AND BROUGHT TO GRADE UPON COMPLETION OF CONSTRUCTION.

HE WORK WINES OF PROPERTY TO BE PERFORMED BY A PLUMBER LICENSED BY THE STATE OF MINNESOTA AND CERTIFIED BY THE CITY OF SAINT PAUL

COMMENTS PER COMPTER 154 OF THE LEGISLATIVE CODE, NO PERSON SHALL CONSTRUCT AND MAINTAIN ANY PROJECTION OR ENCROACHMENT WITHIN THE PUBLIC RIGHT-OF-WAY.

TO SPRING "STANGARDS FOR THE INSTALLATION OF WATER MAINS" STANGARD PLATE D-11 FOR RESTRAINED PIPE REQUIREMENT,

HARRIES INSTALLED IN THE ROW WITHOUT AUTHORIZATION WILL BE REMOVED AT NO EXPENSE TO THE CITY/COUNTY/STATE

EXCAVATION PERMITS: ALL DIGGING IN THE PUBLIC RIGHT OF MAY REQUIRES AN EXCAVATION PERMIT. IF THE PROPOSED BUILDING IS CLOSE TO THE RIGHT OF MAY, AND EXCAVATING INTO THE RIGHT OF WAY IS NEEDED TO FACILITATE CONSTRUCTION, CONTACT THE UTILITY INSPECTOR.

KING IN THE PUBLIC RIGHT OF WAY MUST TO BE RECISTERED, INSURED AND BONDED, AS RECOGNIZED BY THE PUBLIC WORKS SERVICE DESK. (651-266-6151).

5. THE CONTRACTOR IS TO CONTACT THE CITY OF ST PAUL FIRE MARSHALL FOR THE EXACT PLACEMENT OF FIRE LANES, YELLOW-PAINTED CURBING AND NO PARKING AREAS FOR FIRE PROTECTION PURPOSES.

6. REFER TO STRUCTURAL PLANS FOR STOOP DETAILS. ALL WALKS ARE TO BE CENTERED ON THE 7. INSTALL APPROPRIATE EXPANSION MATERIAL WHERE CONCRETE IS ADJACENT TO BUILDING FACE.

8. MATCH NEW PAVEMENT INTO EXISTING PAVEMENT. NO ABRUPT GRADE TRANSITIONS OR PONDING OF WATER WILL BE ALLOWED.

9. MATCH NEW CONCRETE CURB AND GUTTER INTO EXISTING. NO ABRUPT GRADE TRANSITIONS OR PONDING OF WATER WILL BE ALLOWED. 10. MATCH NEW SIDEWALK INTO EXISTING SIDEWALK, NO ABRUPT GRADE TRANSITIONS OR PONDING

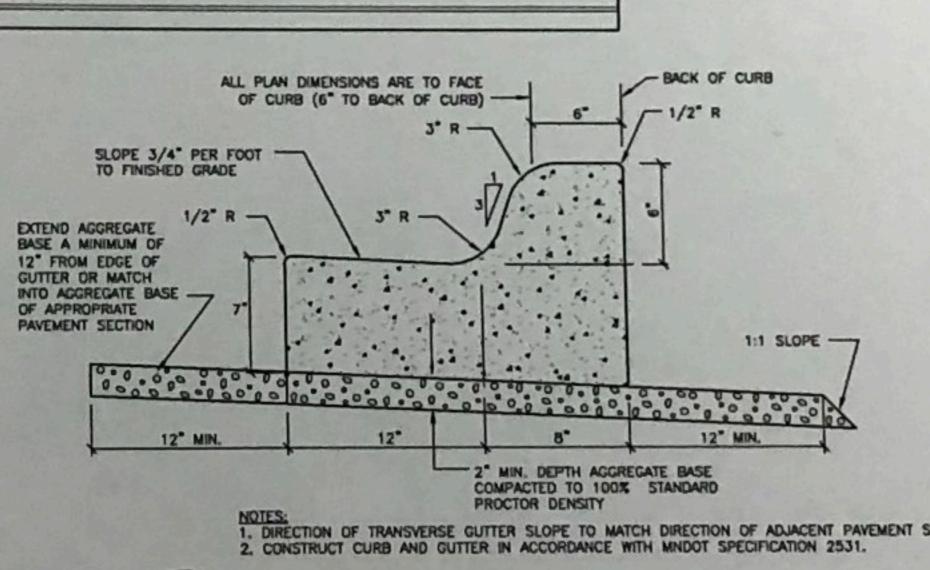
OF WATER WILL BE ALLONED. 11. SAWCUT EXISTING PAVEMENT, SIDEWALK, AND CURB AND GUTTER TO NEAREST JOINT, COORDINATE REMOVAL LIMITS WITH SITE DEMOLITION CONTRACTOR AND CONSTRUCTION MANAGER.

12. ALL WORK ON CURBS, DRIVEWAYS, AND SIDEWALKS WITHIN THE PUBLIC RIGHT OF WAY MUST BE DONE TO CITY STANDARDS AND SPECIFICATIONS BY A CONTRACTOR LICENSED TO WORK IN THE CITY RICHT-OF-WAY UNDER A PERMIT FROM PUBLIC WORKS SIDEWALK SECTION (651-266-6108). SIDEWALK GRADES MUST BE CARRIED ACROSS DRIVEWAYS.

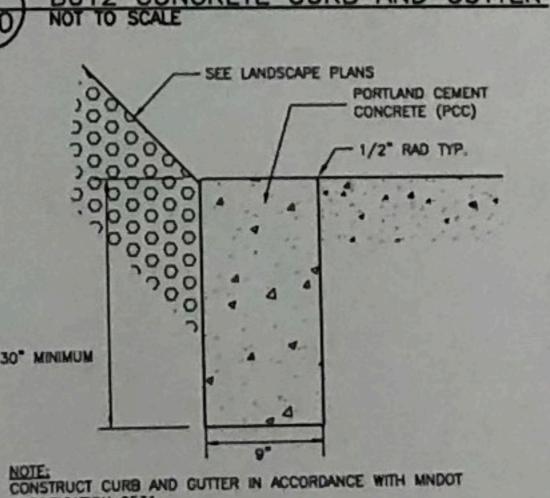
13. RIGHT OF WAY RESTORATION: RESTORATION OF ASPHALT AND CONCRETE PAVEMENTS ARE PERFORMED BY THE PUBLIC WORKS STREET MAINTENANCE DIVISION. THE CONTRACTOR ISRESPONSIBLE FOR PAYMENT TO THE CITY FOR THE COST OF THESE RESTORATIONS. THE CONTRACTOR SHALL CONTACT PUBLIC WORKS STREET MAINTENANCE TO SET UP A WORK ORDER PRIOR TO BEGINNING ANY REMOVALS IN THE STREET AT 651-266-9700. PROCEDURES AND UNIT COSTS ARE FOUND IN STREET MAINTENANCE'S "GENERAL REQUIREMENTS - ALL RESTORATIONS" AND ARE AVAILABLE AT THE PERMIT OFFICE.

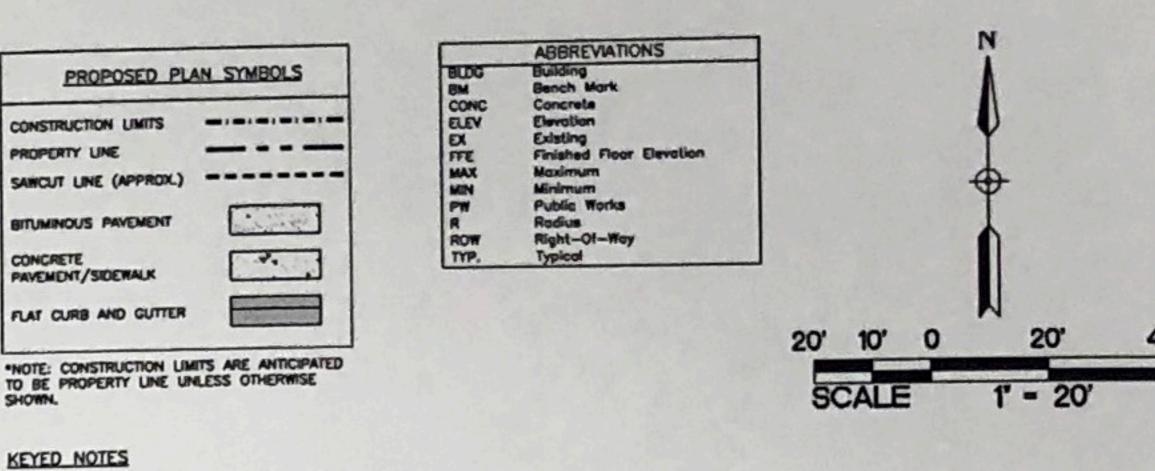
14. BOULEYARDS SHALL BE RESTORED WITH A MINIMUM OF 4" OF TOPSOIL

SLOPE DOWN, WELD ALL SIDES METAL SIGN ACCORDING TO MIN STATE STATUTE 169,346 WHITE EGEND AND BORDER ON BLUE BACKGROUND, FULLY REFLECTORIZED VEHICLE ID - ATTACH 6" X1Z" "VAN ACCESSIBLE" SIGN TO POST IF APPLICABLE _16 GA 2 -INCH OD GALVANIZED STEEL SIGN POST FOR WOLATION ACCESSIBLE WHERE CONCRETE OCCURS AT BASE USE 1-1/Z EXPANSION MATERIAL AND URETHANE CAULK. -4" LONG STUDS WELD AT QUARTER POINTS & ON CENTER SIGN R7-1 FOR



1. DIRECTION OF TRANSVERSE GUTTER SLOPE TO MATCH DIRECTION OF ADJACENT PAVEMENT SLOPE.
2. CONSTRUCT CURB AND GUTTER IN ACCORDANCE WITH MNDOT SPECIFICATION 2531.





PROPOSED PLAN SYMBOLS

*NOTE: CONSTRUCTION LIMITS ARE ANTICIPATED TO BE PROPERTY LINE UNLESS OTHERWISE

KEYED NOTES ARE DENOTED BY NO ON PLANL

I INSTALL BEIS CONCRETE CURB AND CUTTER. REFER TO DETAIL 2/C4.0.

2 INSTALL FLAT CONCRETE CURB AND GUTTER. REFER TO DETAIL 3/C4.0.

7 INSTALL BE12 CONCRETE CURB AND GUTTER. REFER TO DETAIL 7/C4.0.

III INSTALL 24"x48" DETECTABLE WARNING SURFACE. REFER TO DETAIL 12/CS.O.

SLOPE 3/4" PER FOOT TO FINISHED GRADE

14 REINSTALL NO PARKING SIGN. COORDINATE WITH CITY OF ST PAUL PW TRANSPORTATION PLANNING.

- EXTEND AGGREGATE BASE A MINIMUM

MATCH INTO AGGREGATE BASE OF APPROPRIATE PAVEMENT SECTION

OF 12" FROM EDGE OF GUTTER OR

5 INSTALL BITUMINOUS AT UTILITY LOCATIONS INKIND. INSTALL PER CITY OF ST. PAUL STANDARDS AND SPECIFICATIONS.

6 INSTALL CONCRETE WALK, REFER TO DETAIL 6/C4.0. REFER TO LANDSCAPE PLANS FOR EMBEDDED FINISHES AND JOINT PATTERNS.

ALL PLAN DIMENSIONS ARE TO FACE OF CURB (6" TO BACK OF CURB) ---

3 INSTALL NOSEDOWN CURB SECTION, REFER TO DETAIL 4/C4.0

INSTALL CONCRETE PAVEMENT, REFER TO DETAIL 5/C4.0.

B REINSTALL SALVAGED CURB OR REPAIR IN KIND.

INSTALL VERTICAL CURB. REFER TO DETAIL 8/C4.0.

10 INSTALL BITUMINOUS PAVEMENT. REFER TO DETAIL 9/C4.0.

13 BIKE RACK. REFER TO ARCHITECTURAL PLANS FOR DETAIL

12 INSTALL ACCESSIBLE PARKING SIGN. REFER TO DETAIL 10/C4.0.

CONCRETE PAVEMENT/SIDEWALK

KEYED NOTES

CUNINGHAM GROUP

St. Arthory Main 2011 Main St. SS Sulle 325 Mirrosepolle, MN 55414

1:1 SLOPE -

- 6" CONCRETE PAVEMENT PER SPECIFICATIONS.

CRUSHED) PER MN/DOT SPECIFICATION 3138, COMPACTED TO AT LEAST 100% STANDARD

4" CONCRETE WALK PER SPECIFICATIONS.

6" GRANULAR BASE REFER TO

- 5" CLASS 5 ACCRECATE BASE (100%

1/2" WIDE x 1" (T/4) DEEP TOOLED JOINT

SPECIFICATIONS.

- COMPACTED SUBGRADE,

REFER TO SPECIFICATIONS

COMPACTED SUBGRADE

- TOP OF CONCRETE CURE 3' TAPER SECTION IN GRASS; 10 FEET WITH ADJACENT WALK; FULL CURB HEIGHT UNLESS NOTED OTHERWISE CONCRETE GUTTER

NOTE: JOINT SPACING SHALL BE 5-FEET ON CENTER.

6) CONCRETE SIDEWALK CONSTRUCTION (TYP.)

-2" MIN. DEPTH AGGREGATE BASE COMPACTED TO 100% STANDARD

PROCTOR DENSITY

1. DIRECTION OF TRANSVERSE GUTTER SLOPE TO MATCH DIRECTION OF ADJACENT PAVEMENT SLOPE.

2. CONSTRUCT CURB AND GUTTER IN ACCORDANCE WITH MINDOT SPECIFICATION 2531.

2" MIN. DEPTH AGGREGATE BASE COMPACTED TO 100% STANDARD

PROCTOR DENSITY

CURB SECTION IS TO SLOPE TOWARD PARKING LOT PER GRADING PLAN. TRANSITION INTO 8612 CURBING USING NOSE-DOWN CURB SECTION.

3 FLAT CURB/CONCRETE EDGER

CONSTRUCTION She Plan Randon

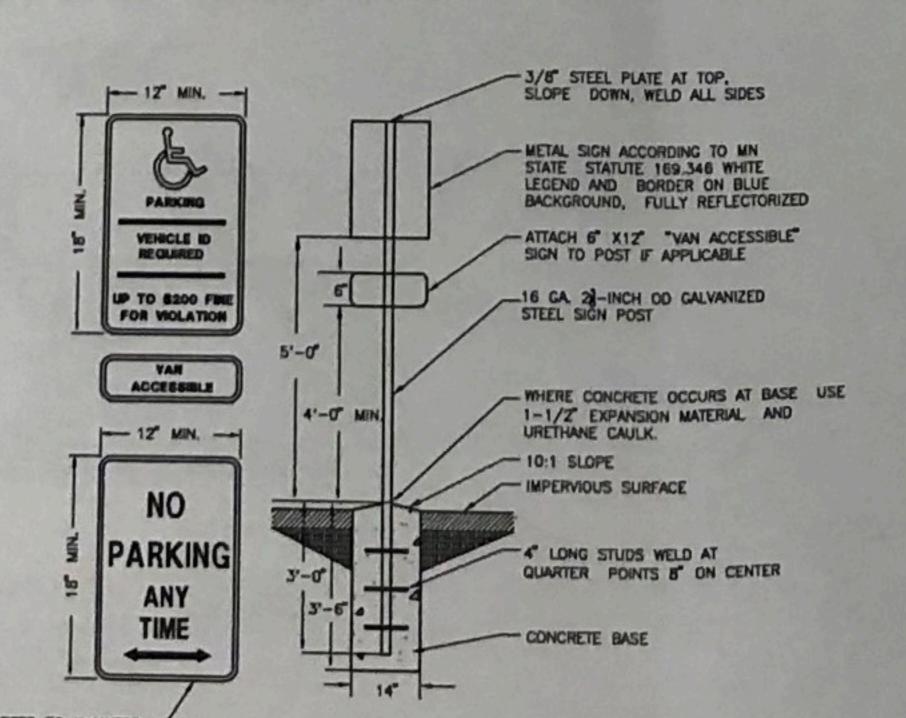
PRELIMINARY

PIC/AIC

Higher Ground Academy **New Secondary School**

> PAVING AND GEOMETRIC PLAN

Check Humber



SIGN DETAILS. (10) ACCESSIBLE SIGN AND POST - IMPERVIOUS SURFACE

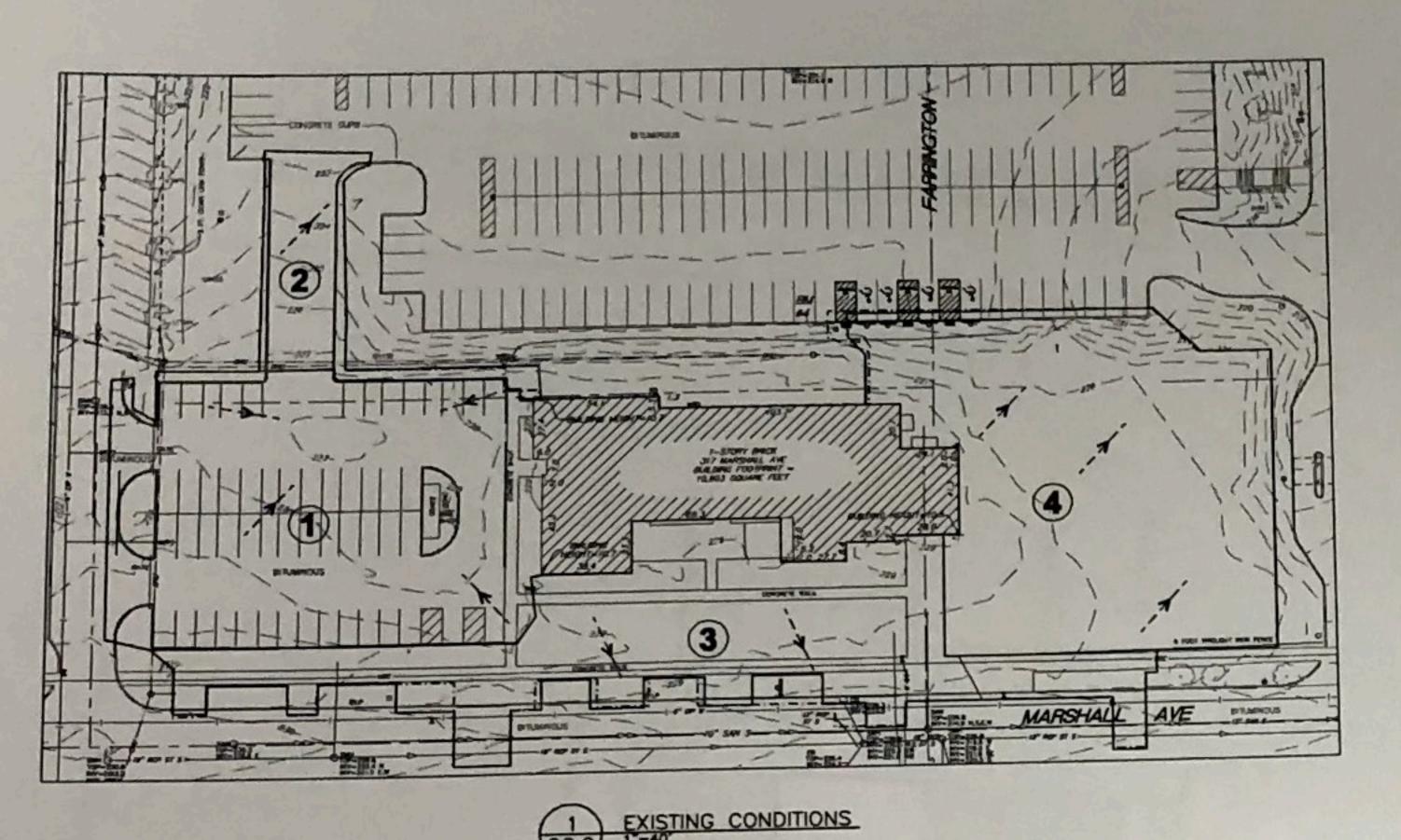
MELPING STREET SWEEPING IS AN IMPORTANT TEMPORARY EROSION CONTROL BEST MANAGEMENT PRACTICE AND SHALL BE PERFORMED WITH THE USE OF WATER. DRY SWEEPING IS PROHIBITED.

LLX, TRUCKS HAILING IN AND GUT OF THE SITE, FOR ANY INCLUDING BUT NOT NECESSARILY LIMITED TO PAYING, EXCAVATION, ETC., NEEDS TO ENSURE CLEAN OFF ALL MUD FLAPS TO AVOID ANY ON THE STREET PRACTICAL. MEGICAL ANY INFRASTRUCTURE CHANGE RESILTING FROM THE CONTRACTORS ACTIVITIES, INCIDENTAL OR OTHERWISE, SHALL BE REPAIRED/REPLACED TO THE SATISFACTION OF THE CITY AT NO COST TO THE

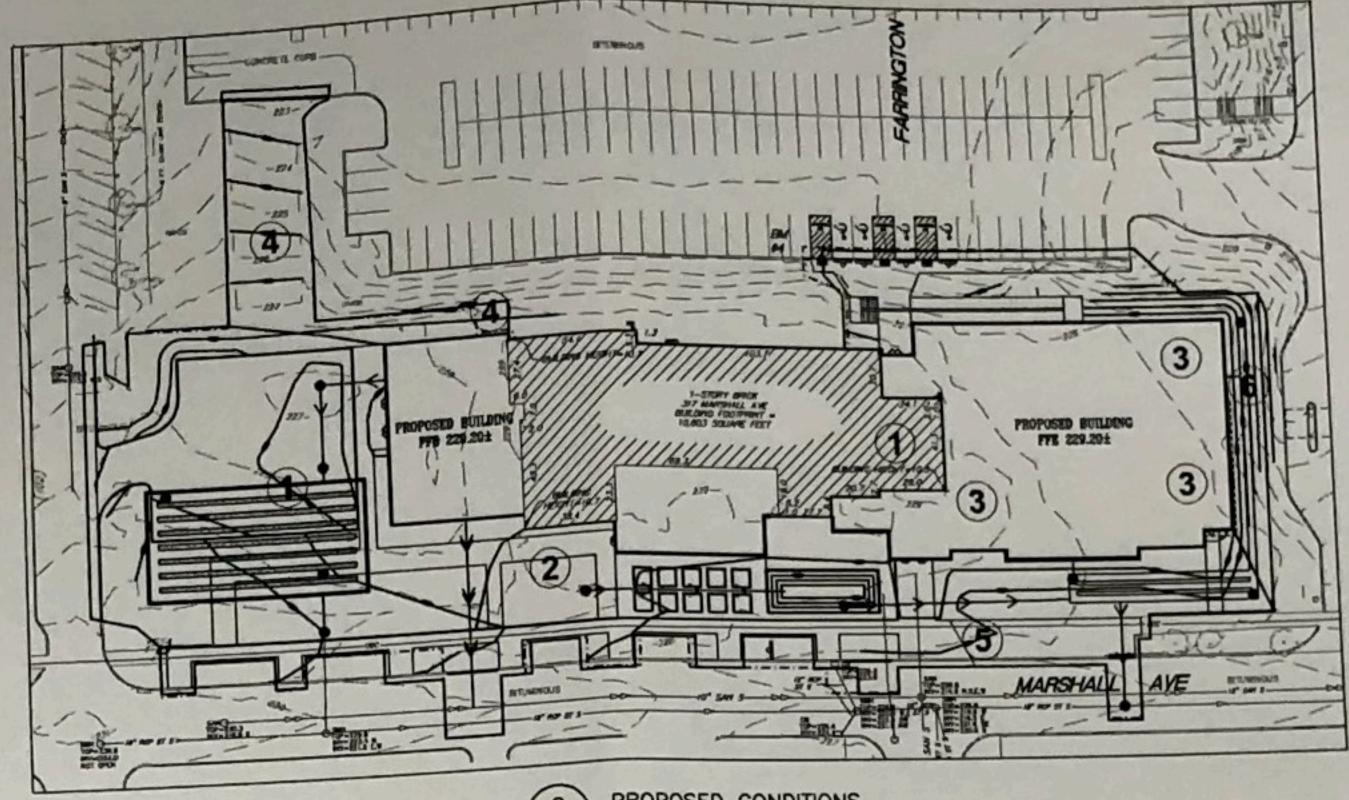
B612 CONCRETE CURB AND GUTTER

30" MINIMUM

(C4.0) NOT TO SCALE TACK COAT PER MN/DOT 2357 CLASS 5 AGGREGATE, PER MN/DOT 3138 COMPACTED TO AT LEAST 100% STANDARD NON-WEARING COURSE PER MN/DOT 2360 SPNWB230 SCARIFY AND RECOMPACT SUBGRADE TO AT LEAST 100% STANDARD PROCTOR DENSITY-PROOF ROLL PER MN/DOT 2111



AREA INCLUDES 0.25 ACRES OF EXISTING BUILDING THAT IS NOT TO BE DEMOLISHED.



Manhole

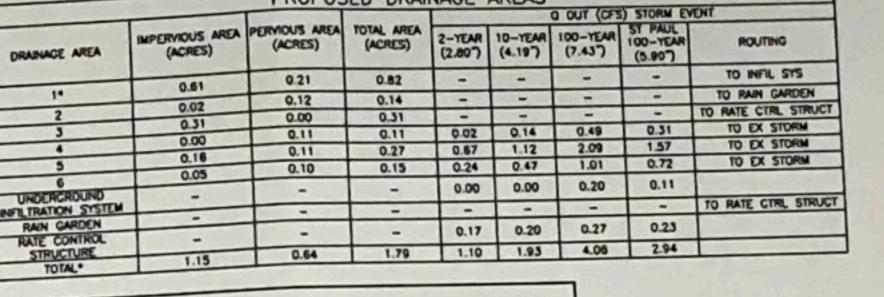
CUNINGHAM GROUP

Q. Arthury Slate 201 Main Q. S. Sales S.S. Mercanyolle, Life SSASA

- 0.17 0.20 0.27 0.23

NO DINI DING WATER CHALITY

	STORMWA	TER RUNOFF SU	MMART	T
		1		51 PAUL 100-YR STORM (5.90") RUNOFF (CFS) 9.30 2.94
			12.61	
DUSTING SITE	3.54	6.40	4.06	
THE PROPERTY SITE	1.10 ST PAUL RATE CONTROL =	1.93	-	



INCLUDES 0.25 ACRE IME IS BASED ON 0.9 JTY VOLUME = 39,204	O ACRES OF NEW IM	PERVIOUS AR	EA. WATER	FEET
iii roco		ALC: A CONTRACT OF		



2.2. LOCATE TOILETS A MINIMUM OF 20 FEET FROM ANY WATER BODY AND 10 FEET FROM ANY CURB AND GUITTER. IF UNFEASIBLE, AN EARTHERN BERM OR SAND BAG BERM SHALL BE PLACED AROUND THE UNIT FOR SPILL AND LEAK CONTAINMENT. 2.3. AVOID PLACING TOILETS ON IMPERVIOUS SURFACES THAT WILL DUICKLY DRAIN TO STORM SEWERS. 2.4. LOCATE TOILETS SO THAT EXPOSURE TO TRAFFIC AND MOVING EQUIPMENT IS SECURE TOLETS TO THE GROUND WITH STAKES OR CABLES. RINSE WATER FROM CLEANING ACTIVITIES SHALL NOT BE DISPOSED ON SITE

PORTABLE TOILET NOTES:

PORTABLE TOLET PLACEMENT:

PORTABLE TOILETS POSE AN ENVIRONMENTAL HAZARD WHEN PLACED IN THE VICINITY OF STORM DRAINS OR BODIES OF WATER. PORTABLE TOILET CLEANING ACTIVITIES CAN ALSO GENERATE POLLUTANTS THAT CAN DEGRADE WATER QUALITY.

2.1. PLACE PORTABLE TOILETS ON FLAT STABLE GROUND WITH CLEAR ACCESS TO THE

REDULARLY CHECK TOILETS FOR DAMAGE.
LEAKS AND SPILLS AS PART OF THE MEERLY

1. LONG TERM MAINTENANCE OF THE SITE WILL BE PERFORMED BY HIGHER GROUND ACADEMY, INCLUDED MAINTENANCE FOR STORMMATER

DEVISES SHALL BE:

1.1. INSPECT SUMP CATCH BASINS ON A
BIANNUAL BASIS, ONCE IN THE SPRING
AND ONCE IN THE FALL

1.2. CLEAN SUMP CATCH BASINS OF SEDIMENT
AND ONCE IN THE FALL

1.4. CLEAN SUMP CATCH BASINS OF SEDIMENT

AND DEBRIS ANNUALLY OR WHEN SEDIMENTS FILL & OF THE STORAGE

ADDITIONAL LONG TERM MAINTENANCE

THIS SWPPP WAS PREPARED BY PERSONNEL THAT ARE CERTIFIED IN THE DESIGN OF CONSTRUCTION SWPPPS, COPIES OF THE CERTIFICATIONS ARE ON FILE WITH BIRSM AND CERTIFICATIONS ARE UPON REQUEST.

THIS SHIPPP DOCUMENT MUST BE AMENDED AS

ARE AVAILABLE UPON REQUEST.

4. OHNER IDENTIFICATION AND CONTACT INFORMATION SHALL BE DISPLATED IN A PROMINENT LOCATION ON EACH UNIT,

STORWHATER SITE INSPECTION.

OTHER NOTES:

MEASURES.

SPECIAL AND IMPAIRED WATERS
THESE SPECIAL AND IMPAIRED HATERS ARE LOCATED WITHIN ONE MILE (AERIAL RADIUS) OF THE PROJECT LIMITS AND RECEIVE RUNOFF FROM THE PROJECT SITE. DUE TO THE PROXIMITY OF THESE SPECIAL AND IMPARED WATERS, THE BMPS DESCRIBED IN APPENDIX A OF THE NPDES PERMIT WILL APPLY TO ALL AREAS OF THE SITE Fecal Caliform; Mercury in

Fish Tissue; Mercury in Water Column; PCB in Fish Tissue; Perfluorocctone Sulfancia (PFOS) in Fish Tissue: Turesard MINIMUM ESTIMATED QUANTITIES FOR EROSION CONTROL ITEM DESCRIPTION DRAINAGE STRUCT. INLET FILTER 3 EACH
ROCK CONSTRUCTION ENTRANCE 1 EACH
CONCRETE WASHOUT
PERMETER EROSION CONTROL 1282 UF
EROSION CONTROL BLANKET 475 SY

NOTE: GLIANTITES SHOWN ARE THE MINIMUM REQUIRED, ADDITIONAL QUANTITIES MAY BE NEEDED & REQUIRED BY THE MPCA, MATERISHED DISTRICT, OR CITY, CONTRACTOR IS RESPONSIBLE. FOR FINAL DETERMINATION OF QUANTITIES PRICE TO CONSTRUCTION.

THE SITE IS APPROXIMATELY. L.70 ACRES. EXISTING SITE INCLUDES THE SAINT PAUL COLLEGE BUILDING AND PARKING LOTS. THE APPROXIMATE DISTLINED AREA IS 1.54 ACRES. STORMWATER IS COLLECTED BY AN EXISTING STORM SEWER SYSTEM. THERE ARE NO STORMWATER MANAGEMENT FACILITIES PRESENTLY ONSITE. DEVELOPMENT INCLUDES BUILDING ADDITIONS ON THE SCIUTH, EAST AND WEST SIDES OF THE SCHOOL TA APPROXIMATE NEW IMPERVIOUS AREA IS 0.64 ACRES. STORMWATER FROM THE SCHOOL WILL DIRECTED TO AN INFILTRATION TANK, RATE CONTROL STRUCTURE AND EXISTING STORM SERER SYSTEM.

POLLUTION PREVENTION MANAGEMENT MEASURE SOLID WASTE DISPOSED PROPERLY; COMPLY WITH MPCA REQUIREMENTS.

HAZARDOUS WASTE STORED (SECONDARY CONTAMINENT, RESTRICTED ACCESS) AND DISPOSED COMPLIANCE WITH MPCA REQUIREMENTS. EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION VEHICLES MUST BE LIMITED TO A DEFINED AREA OF THE SITE, RUNOFF MUST BE CONTAINED AND WASTE PROPERLY DISPOSED. NO ENGINE DECREASING ALLOWED ON-SITE.

NO ENGINE DEGREASING ALLOWED ON-SITE.

CONCRETE WASHOUT ON-SITE: ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACULTY OR IMPERMEABLE LINER. A COMPACTED CLAY LINER THAT DOES NOT ALLOW LIQUIDS TO ENTER GROUND WATER IS CONSIDERED AN IMPERMEABLE LINER. THE LIQUID AND SOLID WASTES MUST NOT CONTACT THE GROUND, AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS OR AREAS. LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA REGULATIONS. A SIGN MUST DE INSTALLED ADJACENT TO EACH WASHOUT FACULTY TO INFORM CONCRETE EDUPMENT OPERATORS TO LITLIZE THE PROPER FACILITIES. THE CONCRETE WASHOUT AREA INDICATED ON THE PLANS IS SHOWN MASHOUT AREA MOICATED ON THE PLANS IS SHOWN IN AN APPROXIMATE LOCATION, PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE DIACT LOCATION IN ACCORDANCE WITH MPCA REQUIREMENTS.

DUNG AND STORAGE OF HAZARDOUS F THE CONTRACTOR INTENDS TO USE POLYMERS,
FLOCCULANTS, OR OTHER SEDMENTATION TREATMENT
OHEMICALS ON THE PROJECT SITE, THE
CONTRACTOR MUST COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS: 1. THE CONTRACTOR MUST USE CONVENTIONAL EROSION AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION TO ENSURE EFFECTIVE TREATMENT. CHEMICALS MAY ONLY BE APPLIED WHERE TREATED STORWHATER IS DIRECTED TO A SEDIMENT CONTROL SYSTEM WHICH ALLOWS FOR FILTRATION OR SETTLEMENT OF THE FLOC PRIOR

TO DISCHARCE. CHEMICALS MUST BE SELECTED THAT ARE APPROPRIATELY SUITED TO THE TYPES OF SOILS LIKELY TO BE EXPOSED DURING CONSTRUCTION, AND TO THE EXPECTED TURBUTY, PH AND FLOW RATE OF STORMWATER FLOWING INTO THE CHEMICAL TREATMENT SYSTEM OR AREA. 3. CHEMICALS MUST BE USED IN ACCORDANCE
WITH ACCEPTED ENGINEERING PRACTICES, AND
WITH DOSING SPECIFICATIONS AND SEDIMENT
REMOVIAL DESIGN SPECIFICATIONS PROVIDED BY
THE MANUFACTURER OR PROVIDER/SUPPLIER OF
THE APPLICABLE CHEMICALS.

ON-SITE FUEL TANKS REQUIRE SECONDARY CONTAINMENT AS REQUIRED BY THE PERMIT. PORTABLE FUEL TRUCKS SHALL HAVE THEIR SPILL KITS ANALABLE DURING FUELING. SPILLS GREATER THAN 5 GALLONS MUST BE REPORTED TO THE PROPER AUTHORITIES. THIS SWIPPP DOCUMENT MUST BE AMENDED AS NECESSARY DURING CONSTRUCTION IN ORDER TO KEEP IT CURRENT WITH THE POLLUTANT CONTROL MEASURES UTILIZED AT THE SITE. THE SITE MAP SHEWING LOCATIONS OF ALL STORM WATER CONTROLS MUST BE POSTED ON THE SITE AND UPDATED TO REFLECT THE PROGRESS OF CONSTRUCTION.

INSPECTIONS EXPOSED SOIL AREAS: ONCE EVERY 7 DAYS AND WITHIN 24 HOURS FOLLOWING A 1/2 INCH OVER 24 HOURS RAIN EVENT. STABILIZED AREAS: ONCE EVERY 30 DAYS. FROZEN GROUND: AS SOON AS RUNOFF OCCURS OR PRIOR TO RESUMING CONSTRUCTION. RECORDS: A COPY OF THE GRACING, DRAMAGE EROSION CONTROL PLAN AND MATERISHED DATA & SHPPP PLANS AS WELL AS THE INSPECTIONS/MAINTENANCE LOGS ARE TO BE KEPT STHER IN THE FIELD OFFICE, INSPECTOR'S VEHICLE OR CONTRACTOR'S VEHICLE

SEDIMENT AND EROSION CONTROL PERMETER SEDMENT CONTROL PRACTICES: WHEN SEDMENT REACHES 1/3 THE HEIGHT OF THE BMP, THE SEDMENT MUST BE REMOVED WITHIN 24 HOURS. IF PERMETER SEDMENT CONTROL HAS BEEN DAMAGED OR IS NOT FUNCTIONING PROPERLY, IT MUST BE REPARED AND/OR REPLACED WITHIN 24 HOURS. PERMETER BMP MEASURES MAY INCLUDE SLT FENCING. CONSTRUCTION SITE VEHICLE EXIT LOCATIONS:
ALL TRACKED SEDIMENT ONTO PAVED SURFACES
MUST BE REMOVED WITHIN 24 HOURS OF
DISCOVERY OR MORE FREQUENTLY IF REQUIRED BY CITY OR WATERSHED.

CONSTRUCTION SITE DEMATERING:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR
OBTAINING ALL DEMATERING PERMITS. DISCHARGE
FROM ALL DEMATERING OPERATIONS SHALL BE
DIRECTED TO ON-SITE DEPRESSIONS. NO
DISCHARGE FROM DEMATERING OPERATIONS SHALL
BE DIRECTED OFF-SITE TOWARDS A WATER OF RESTRICTION PERIOD. SEDIMENT CONTROL MEASURES MUST BE INSTALLED ON ALL DOWN GRADIENT PERMETERS BEFORE ANY UPGRACIENT LAND DISTURBING ACTIVITIES BEGIN.

THE STORM HATER POLLUTION PREVENTION PLAN FOR THIS PROJECT INCLUDES THE CIVIL ENGINEERING PLANS AND THE PROJECT MANUAL. STOCKPILES: CONTRACTOR TO SUPPLY CONSTRUCTION PHASING NARRAITYE, ESTIMATED PRELIMINARY QUANTITIES OF ALL EROSION PREVENTION AND SEDIMENT CONTROL BMP'S ANTICIPATED AT THE START OF THE PROJECT, AND LOCATION OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOIL AREAS. CONTRACTOR IS TO REVIEW MINNESOTA POLLUTION CONTROL AGENCY'S INSTRUCTIONS FOR THE APPLICATION FOR MINNESOTA'S NPOES/SOS GENERAL STORMHATER
PERMET FOR CONSTRUCTION ACTIVITY PRIOR TO
SUBMITTING APPLICATION.

SCHARGES, EXISTING AND PROPOSI WATER LINE FLUSHING
LANDSCAPE IRRIGATION
UNCONTAMINATED PUMPED GROUND WATER
DISCHARGE FROM POTABLE WATER SOURCES FOUNDATION DRAWS

AGENCY CONTACTS CITY OF ST. PAUL ENGINEERING DEPARTMENT PHONE: (851) 256-6270

MINNESOTA POLLUTION CONTROL ACENCY PHONE: (651) 296-6300 TAPITOL RECION MATERISHED DISTRICT OWNER CROUND ACADEMY 1381 MARSHALL AVENUE SAINT PAUL MN 55104 (851) 645-1000

NOTE:
THE CONTRACTOR MUST COMPLETE, SIGN, OBTAIN OWNERS SIGNATURE, PAY FEE, AND SEND IN THE OWNERS SEGNATURE, PAY FEE, AND SEND IN THE NPOES PERMIT APPLICATION. CONTRACTOR SHALL PROVIDE A CERTIFIED EROSION CONTROL SUPERVISOR. SWEPP DOCUMENTATION, INCLUDING INSPECTION REPORTS SHALL BE RETAINED FOR A PERSO OF THREE (3) YEARS. DESIGN CALCULATIONS ARE ON FILE AT BISSIN. THE ORNER AND CONTRACTOR ARE RESPONSIBLE FOR IMPLEMENTATION OF THE SRPPP AND INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS, BEFORE, DURING, AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION HAS BEEN FILED.

CONSTRUCTION ACTIVITY EROSION
PREVENTION PRACTICES CONTRACTOR SHALL STABILIZE ALL DIPOSED SOL CONTRACTOR SHALL STABILIZE ALL EXPOSED SUCAREAS (INCLLIDING STOCKPILES). STABILIZATION
MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL
EROSION RHENEVER ANY CONSTRUCTION ACTIVITY
HAS PERMANENTLY OR TEMPORARRY CEASED ON
ANY PORTION OF THE SITE AND HILL HOT RESUME
FOR A PERIOD EXCEEDING 7 CALENDAR DAYS.
STABILIZATION MUST BE COMPLETED NO LATER
THAN 7 CALENDAR DAYS AFTER THE
CONSTRUCTION ACTIVITY IN THAT PORTION OF THE
CONSTRUCTION ACTIVITY IN THAT PORTION OF THE

SITE HAS TEMPORABLY OR PETMANENTLY CEASED. FOR PUBLIC MATER THAT THE DIR HAS PROMULGATED WORK IN MATER RESTRICTIONS'
DURING SPECIFED FISH SPANNING TIME FRAMES,
ALL EXPOSED SOIL AREAS THAT ARE WITHIN 200
FEET OF THE MATER'S EDGE, AND DRAIN TO
THESE MATERS MUST COMPLETE THE STABILIZATION
ACTIVES WITHIN 24 HOURS DURING THE POPE CUITLETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24-HOURS AFTER CONNECTION TO A

ON-SITE STOCKPILES OF SOIL SHALL HAVE
PERMETER SEDIMENT CONTROL STOCKPILES SHALL
BE STABILIZED WITH BLANKETS, TARPS, OR HIDRO
MULDH IF LEFT ON-SITE FOR MORE THAN 7 DAYS.

TEMPORARY SEDIMENT BASINS: TEMPORARY SEDMENT BASINS SHALL BE PROVIDED PER APPENDIX A SECTION C.1.B OF THE MPCA GENERAL STORMHATER PERMIT. ENGINEER ANTICIPATES THAT, PEROR TO INSTALLATION OF PELITRATION MEDIA AND DRAIN THE CONTRACTOR WILL USE PROPOSED PETRATION BASINS AS TEMPORARY SEDIMENT BASINS. CONTRACTOR SHALL DICAMATE TEMPORARY BASINS AND CLAY LINE PRIOR TO USE. SURFACE HATER SHALL BE REMOVED BY SEMMER DEVICE SUCH AS FARCLOTH SKIMMER OR THIRST DUCK, OR USING A PUMP WITH A FILTER, ALTERNATIVE TEMPORARY SEDIMENT BASINS SHALL BE APPROVED BY DIGMER PRIOR TO USE. Higher Ground Academy **New Secondary School**

FINAL STABILIZATION STABILIZATION BY UNIFORM PERENNIAL VEGETATIVE COVER (70% DENSITY) DRAINACE DITCHES STABILIZED. ALL TEMPORARY STATHETIC AND STRUCTURAL

BMP'S REMOVED.

CLEAN OUT SEDIMENT FROM CONVEYANCES AND SEDIMENTATION BASINS (RETURN TO DESIGN GRADING & SOILS

BASED ON SOIL BORING(S) PROVIDED BY TERRACON SOILS TYPICALLY FOUND ON THIS PROJECT ARE FILL SP. AND CL. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

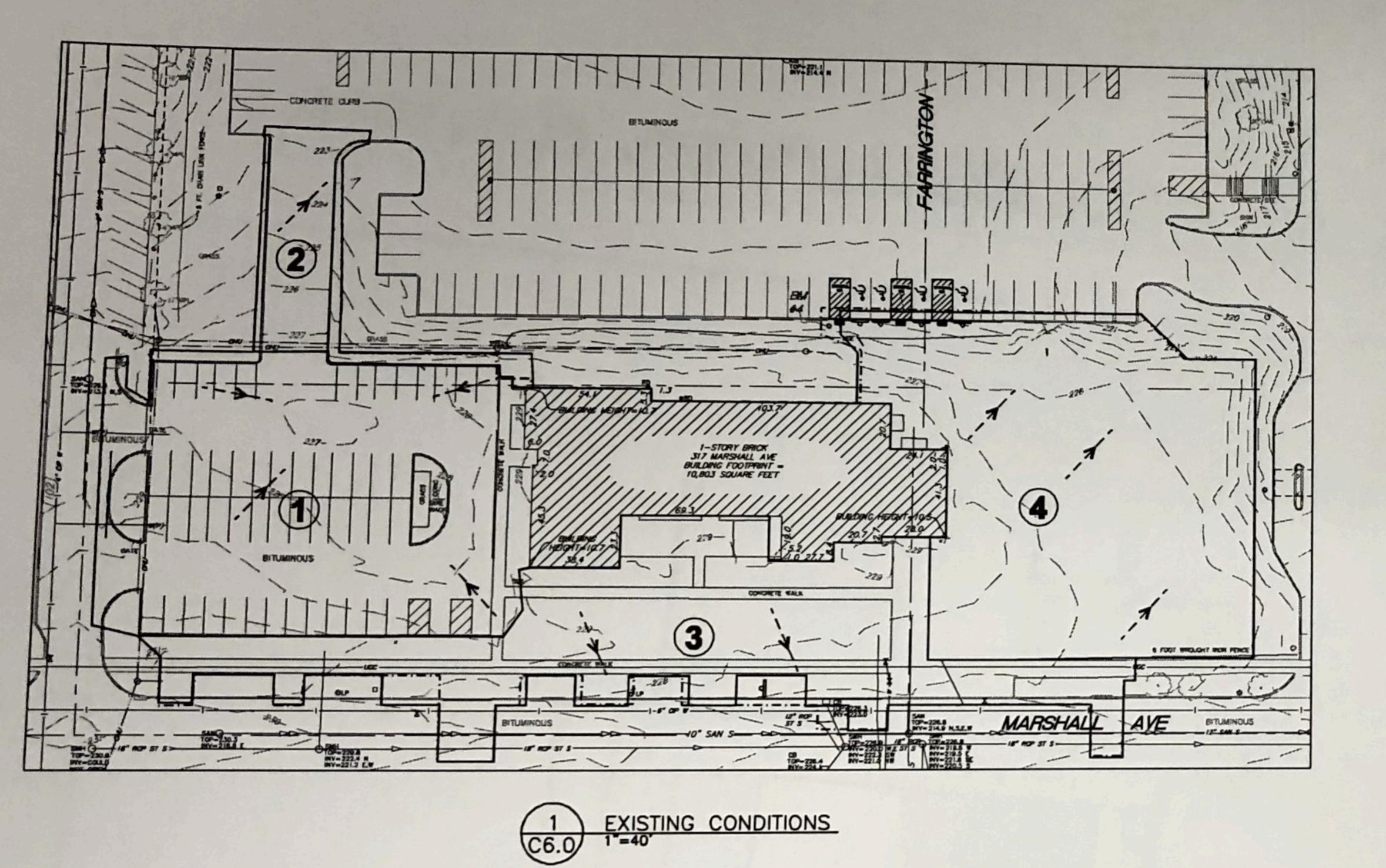
SWPPP IMPLEMENTATION, INSTALLATION, INSPECTION, AND BMP MAINTENANCE BY GENERAL CONTRACTOR.

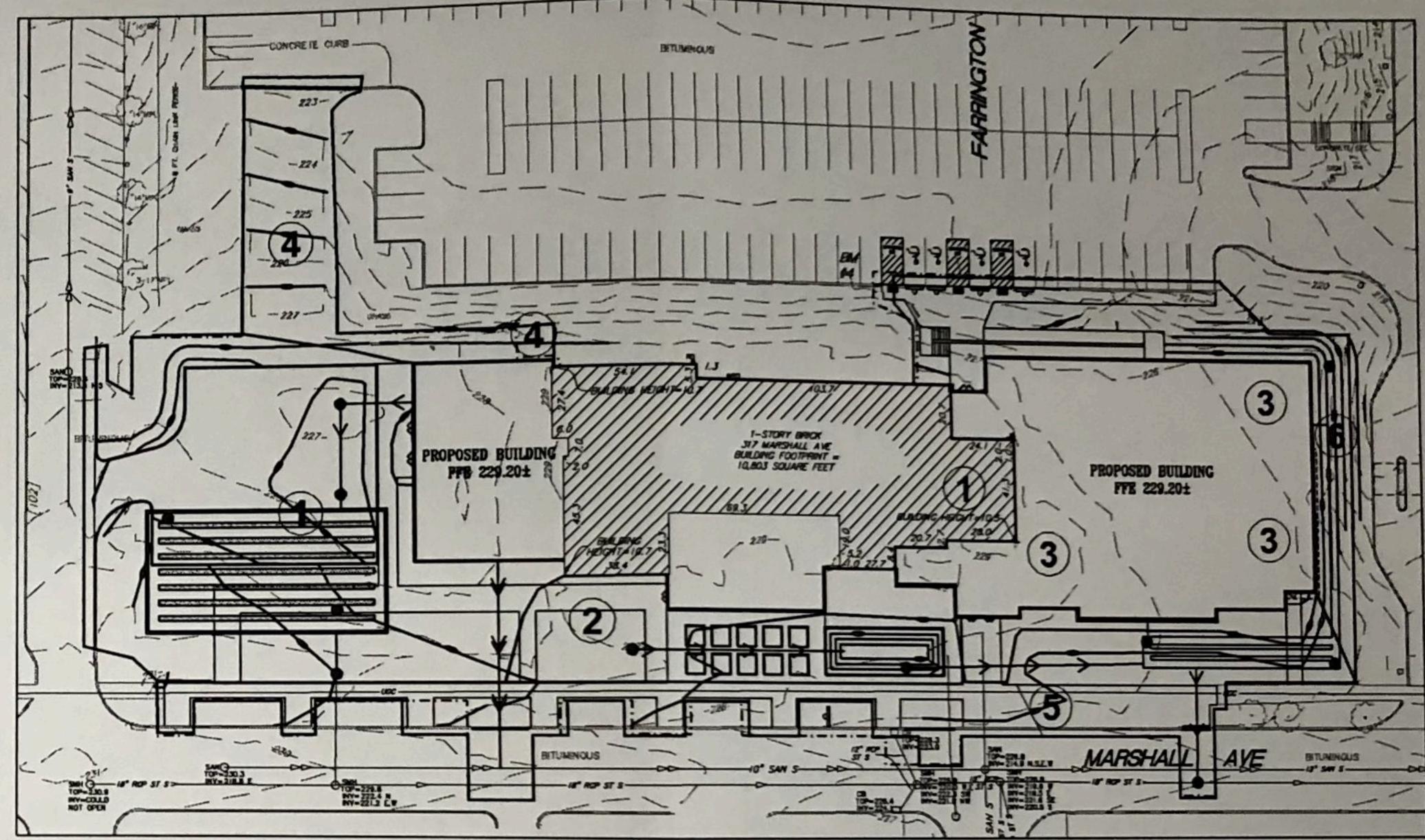
PRELIMINARY

CONSTRUCTION

HTTP: //WWW.FWS.GOV/WETLANDS/DATA/MAPPER.HTML

Site Layout And Surfacing Plan





PROPOSED CONDITIONS

(C6.0) 1 = 40

		PROPOS	SED DRAI	NAGE	AREAS			
				Q OUT (CFS) STORM EVENT				
DRAINAGE AREA	(ACRES)	PERVIOUS AREA (ACRES)	TOTAL AREA (ACRES)	2-YEAR (2.80°)	10-YEAR (4.197)	100-YEAR (7.437)	ST PAUL 100-YEAR (5.90")	ROUTING
10	0.61	0.21	0.82	-	-	-	-	TO INFIL SYS
2	0.02	0.12	0.14	-	-	-	-	TO RAIN GARDEN
3	0.31	0.00	0.31	-	-	-	-	TO RATE CTRL STRUC
4	0.00		0.11	0.02	0.14	0.49	0.31	TO EX STORM
5	0.16	0.11	0.27	0.67	1.12	2.09	1.57	TO EX STORM
6	0.05	0.11	0.15	0.24	0.47	1.01	0.72	TO EX STORM
UNDERGROUND INFILTRATION SYSTEM	-	0.10	-	0.00	0.00	0.20	0.11	
RAIN GARDEN	-		-	-	-	-		TO RATE CIRL STRUC
RATE CONTROL STRUCTURE	-	-	-	0.17	0.20	0.27	0.23	
TOTAL		the same of the sa	. 70	1.10	1.93	4.06	2.94	

*NOTE
AREA INCLUDES 0.25 ACRES OF EXISTING BUILDING. WATER QUALITY
VOLUME IS BASED ON 0.90 ACRES OF NEW IMPERVIOUS AREA. WATER
QUALITY VOLUME = 39,204(FEET) x 1.1(INCHES) x 12 = 3,594 CUBIC FEET

	STORMWA	TER RUNOFF SUI	MMARY	
	2-YR STORM (2.80") RUNOFF (CFS)	10-YR STORM (4.19") RUNOFF (CFS)	100-YR STORM (7.43") RUNOFF (CFS)	ST PAUL 100-YR STORM (5.90") RUNOFF (CFS)
EXISTING SITE	3.54	6.40	12.61	9.30
PROPOSED SITE	1.10	1.93	4.06	2.94
	ST PAUL RATE CONTROL = 1	.64 CFS * 1.79 ACRES		2.94

PORTABLE TOILET NOTES: PORTABLE TOILETS POSE AN ENVIRONMENTAL HAZARD WHEN PLACED IN THE VICINITY OF STORM DRAINS OR BOOIES OF WATER.

PORTABLE TOILET CLEANING ACTIVITIES CAN ALSO GENERATE POLLUTANTS THAT CAN DEGRADE WATER QUALITY.

2. PORTABLE TOILET PLACEMENT:
2. PLACE PORTABLE TOILETS ON FLAT STABLE

POLLUTION PREVENTION MANAGEMENT MEASURES

SOLID WASTE DISPOSED PROPERLY; COMPLY WITH MPCA REQUIREMENTS.

HAZARDOUS WASTE STORED (SECONDARY CONTAINMENT, RESTRICTED ACCESS) AND DISPOSED IN COMPLIANCE WITH MPCA REQUIREMENTS.

EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION VEHICLES MUST BE LIMITED TO A DEFINED AREA OF THE SITE RUNOFF MUST BE CONTAINED AND WASTE PROPERLY DISPOSED.

NO ENGINE DECREASING ALLOWED ON-SITE CONCRETE WASHOUT ON-SITE: ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER A COMPACTED CLAY LINER THAT DOES NOT ALLOW LIQUIDS TO ENTER GROUND WATER IS CONSIDERED AN IMPERMEABLE LINER THE LIQUID AND SOLID WASTES MUST NOT CONTACT THE GROUND, AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS OR AREAS, LIQUID AND SOLD WASTES

FROM ALL DEWATERING OPERATION OF THE DEPRESS DISCHARGE FROM DEWATERING OF THE DEPRESS OF THE DEP BE DIRECTED OFF-SITE TOWARD THE STATE

SEDIMENT AND EROSION C

PERIMETER SEDIMENT CONTROL

CONSTRUCTION SITE VEHICLE DE

MUST BE REMOVED WITHIN 24 H

BY CITY OR WATERSHED.

DISCOVERY OR MORE FREQUENTS

CONSTRUCTION SITE DEWATERING

THE CONTRACTOR SHALL BE RE

OBTAINING ALL DEMATERING PER

THE STORM WATER POLLUTION PA FOR THIS PROJECT INCLUDES THE ENGINEERING PLANS AND THE PR

TOTAL AREA (ACRES)

2-YEAR (2.80°)

0.75

0.75

0.10

0.24

0.45

0.42

0.45

1.13

0.54

1.79

1.79

1.79

1.79

1.79

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

1.70

Q OUT (CFS) STORM EVENT

EXISTING DRAINAGE AREAS

DRAINAGE AREA

AREA INCLUDES 0.25 ACRES OF EXISTING BUILDING THAT IS NOT TO BE DEMOLISHED.

(ACRES) PERVIOUS AREA (ACRES)



VICINITY MAP

HTTP://WWW.FWS.GOV/WETLANDS/DATA/MAPPER.HTML