

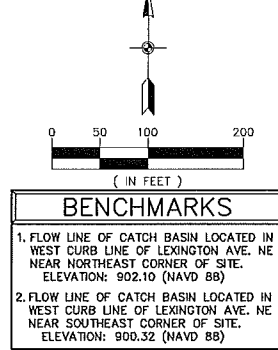
- GOVERNING SPECIFICATIONS**
- THE LATEST EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE CITY OF BLAINE SPECIFICATIONS.
  - THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
  - THE LATEST EDITION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM) STANDARD SPECIFICATIONS.

- CONSTRUCTION SEQUENCE**
- CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF DISCREPANCIES OR VARIATIONS FROM THE PLAN.
  - ROCK CONSTRUCTION ENTRANCES, SILT FENCE AND CATCH BASIN INLET PROTECTION SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE.
  - CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS BEING WORKED, EXCEPT BELOW THE PROPOSED TOPSOIL STOCKPILES.
  - CONTRACTOR SHALL CONSTRUCT PONDS AND DRAINAGE SWALES PRIOR TO UP-GRADIENT LAND DISTURBING ACTIVITIES. DISTURBED AREA RUNOFF SHALL BE DIRECTED TO THE STORMWATER PONDS.
  - TURF ESTABLISHMENT SHALL TAKE PLACE AS SOON AS POSSIBLE BUT IN NO CASE LATER THAN 14 DAYS AFTER AN AREA IS NOT LONGER BE WORKED. IF THE SITE BECOMES EXCESSIVELY DUSTY, THE CONTRACTOR SHALL USE WATER TO CONTROL DUST.
  - AFTER ALL MATERIAL HAS BEEN PLACED AND NO ADDITION HAULING WILL OCCUR, THE SITE ENTRANCES SHALL BE REMOVED AND ANY WETLANDS IMPACTED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.

- FLOODPLAIN CALCULATIONS**
- FLOODPLAIN FILL**  
 FLOODPLAIN FILL AREA = 259,100 SF (5.95 AC)  
 FLOODPLAIN FILL VOLUME = 259,100 CF (5.95 AF)
- FLOODPLAIN MITIGATION**  
 POND 100 = 243,900 CF (5.60 AF)  
 POND 200 = 63,340 CF (1.50 AF)  
 TOTAL = 307,240 (7.10 AF)
- WETLAND IMPACTS**
- IF A TEMPORARY CONSTRUCTION BRIDGE IS USED TO ACCESS THE SITE OFF OF 109TH AVENUE NE, WETLAND IMPACTS ARE NOT PROPOSED AS PART OF THIS PLAN. THE CONSTRUCTION BRIDGE SHALL BE CONSTRUCTED SO THAT NO PART OF THE BRIDGE IS BELOW AN 897.0 ELEVATION.
  - IF A STANDARD APPROACH WITH CULVERT IS USED TO ACCESS THE SITE OFF OF 109TH AVENUE, APPROXIMATELY 1,750 S.F. OF WETLAND FILL IS PROPOSED. THE WETLAND FILL WILL BE TEMPORARY AND THE CONTRACTOR SHALL RESTORE THE WETLAND TO ORIGINAL CONDITIONS WITHIN 6 MONTHS OF IMPACT.

**LEGEND**

	EXISTING	PROPOSED
PROPERTY LINE	---	---
CURB LINE	---	---
UNDERGROUND FIBER	uf	uf
OVERHEAD UTILITY	oh	oh
STORM SEWER	ss	ss
CATCH BASIN	cb	cb
MANHOLE	mh	mh
HAND HOLE	hh	hh
SIGN	sg	sg
TRAFFIC SIGNAL	ts	ts
UTILITY POLE	up	up
FENCE	f	f
10' CONTOUR	10'	10'
2' CONTOUR	2'	2'
WETLAND LINE	wl	wl
SPOT ELEVATION	00.0	00.0
SILT FENCE	sf	sf



**SHEET INDEX**

- LAND RECLAMATION PLAN
- STORMWATER POLLUTION PREVENTION PLAN
- DETAILS

CALL BEFORE YOU DIG

Know what's below. Call before you dig.

**Carlson McCain**  
 ENVIRONMENTAL • ENGINEERING • SURVEYING  
 248 Apollo Dr, Suite 100, Lino Lakes, MN 55014  
 Phone: 763-489-7900 Fax: 763-489-7959

**LAND RECLAMATION PLAN**  
**SOUTHWEST QUADRANT**  
**LEXINGTON AVE NE & 109TH AVE NE**  
 Blaine, Minnesota

**ALLINA HEALTH**  
 2925 Chicago Avenue  
 Minneapolis, MN 55407

**REVISIONS**

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6.	

DRAWN BY: JTR  
 DESIGNED BY: JTR  
 ISSUE DATE: 11/04/13

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Name: Joseph T. Radach, P.E.  
 Signature:   
 Date: 11/04/13 License #: 45889

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