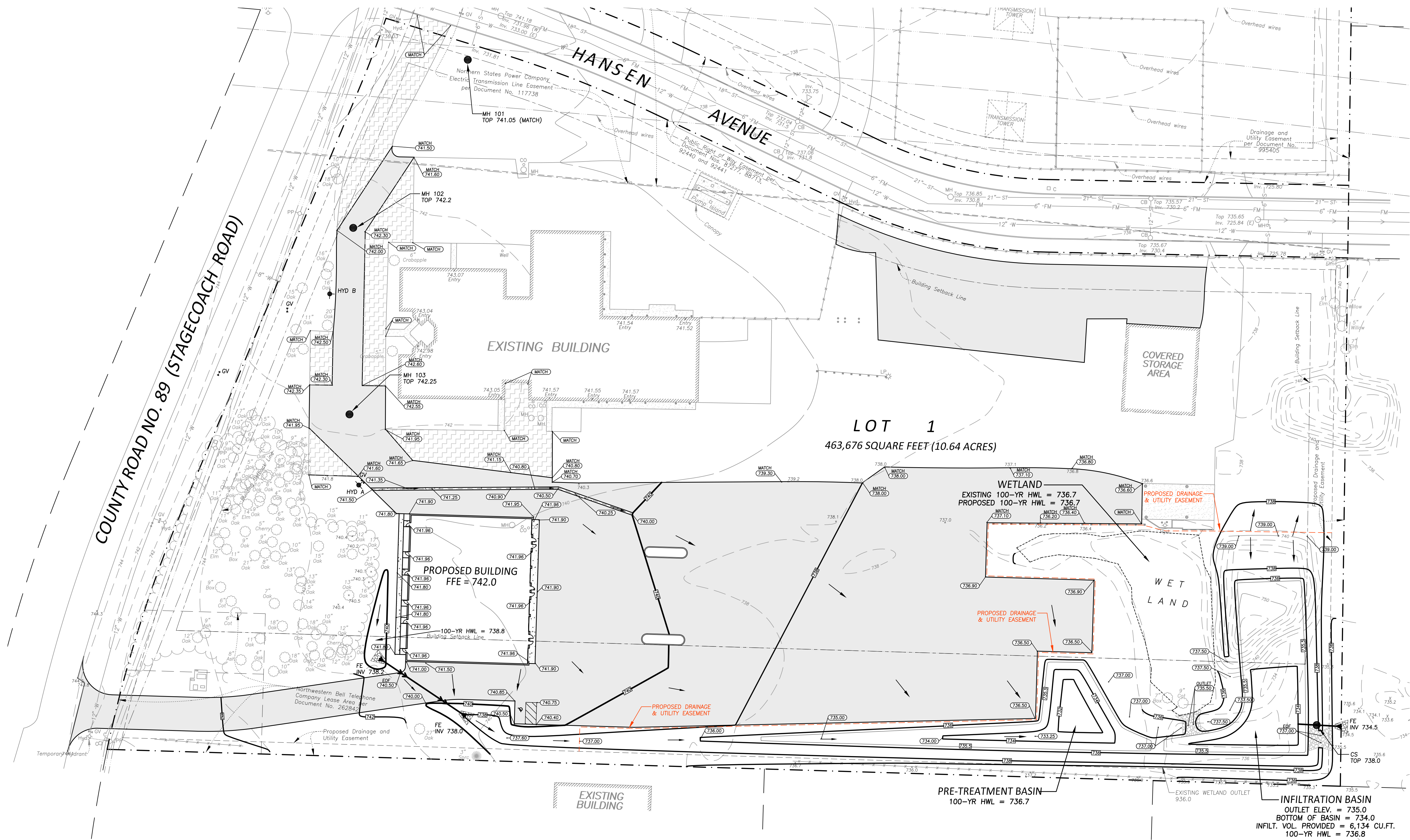




- GRADING NOTES**
- 1 - All elevations shown are to final surfaces.
 - 2 - Contractor is responsible for obtaining a National Pollutant Discharge Elimination System (NPDES) General Storm Water Permit for Construction Activity before construction begins.
 - 3 - Contractor shall keep heavy equipment off the infiltration basin to prevent the infiltration basin from being compacted.
 - 4 - All disturbed green space shall have a minimum of 6 inches to topsoil when grading is complete.

WETLAND FLOODPLAIN SUMMARY

NOTE: NO GRADING SHALL BE DONE WITHIN THE DELINEATED WETLAND. VALUES SHOWN BELOW IS EARTHWORK DONE WITHIN THE EXISTING 100-YR FLOOD ELEVATION

PROPOSED CUT = 90 C.Y.
PROPOSED FILL = 150 C.Y.

PROGRESS PRINT
9-27-22

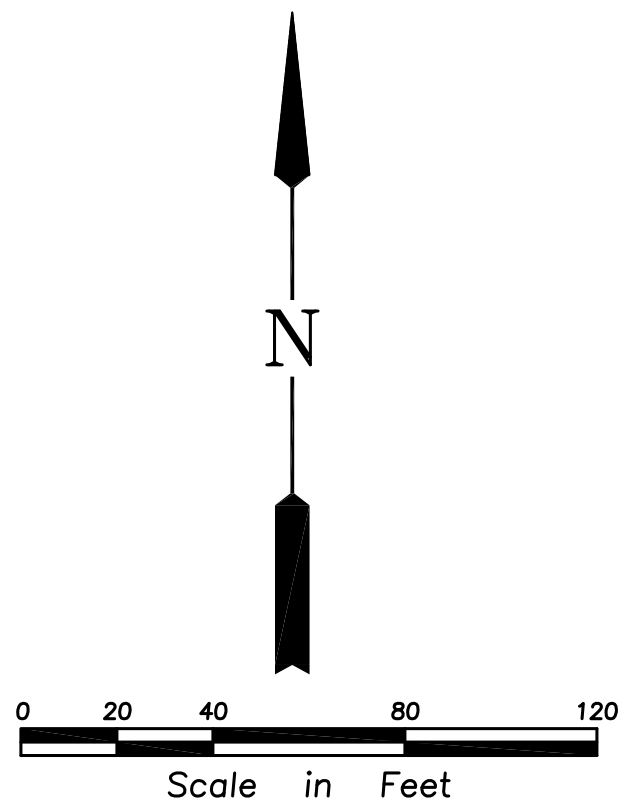
- LEGEND**
- PROPOSED MANHOLE
 - PROPOSED CLEANOUT
 - PROPOSED CATCH BASIN
 - ◆ PROPOSED HYDRANT
 - ++ PROPOSED GATE VALVE
 - ◀ PROPOSED FLARED END
 - PROPOSED SANITARY SEWER
 - +— PROPOSED WATERMAIN
 - ▤ PROPOSED CONCRETE
 - ▥ PROPOSED BITUMINOUS
 - ▦ PROPOSED BITUMINOUS (CLASS 5 TO REMAIN)
 - 0.850— PROPOSED CONTOUR
 - 0.835.54 PROPOSED ELEVATION
 - — — BOUNDARY/ROW/BLOCK LINE
 - - - EASEMENT
 - - - BUILDING/PARKING SETBACK LINE
 - DRAINAGE ARROW
 - ST — EXISTING STORM SEWER
 - 980 — EXISTING CONTOUR
 - x 995.50 EXISTING ELEVATION

APPROVED FOR ONE YEAR FROM THIS DATE

SHAKOPEE PUBLIC UTILITIES COMMISSION

DATE

All materials and construction methods shall comply with Shakopee Public Utilities water policy manual dated August 4, 2014.



GOPHER STATE ONE CALL

CALL 48 HOURS BEFORE YOU DIG
TWIN CITY AREA 651-454-0002
MN. TOLL FREE 1-800-252-1166

GRADING & DRAINAGE PLAN
RELAKOR
CITY OF SHAKOPEE

SHEET NUMBER

C3

Issued

7-20-22	LURWD SUBMITTAL
8-1-22	ADDRESS CITY & LURWD COMMENTS
9-8-22	PLUMBING PERMIT
9-20-22	ADDRESS CITY COMMENTS

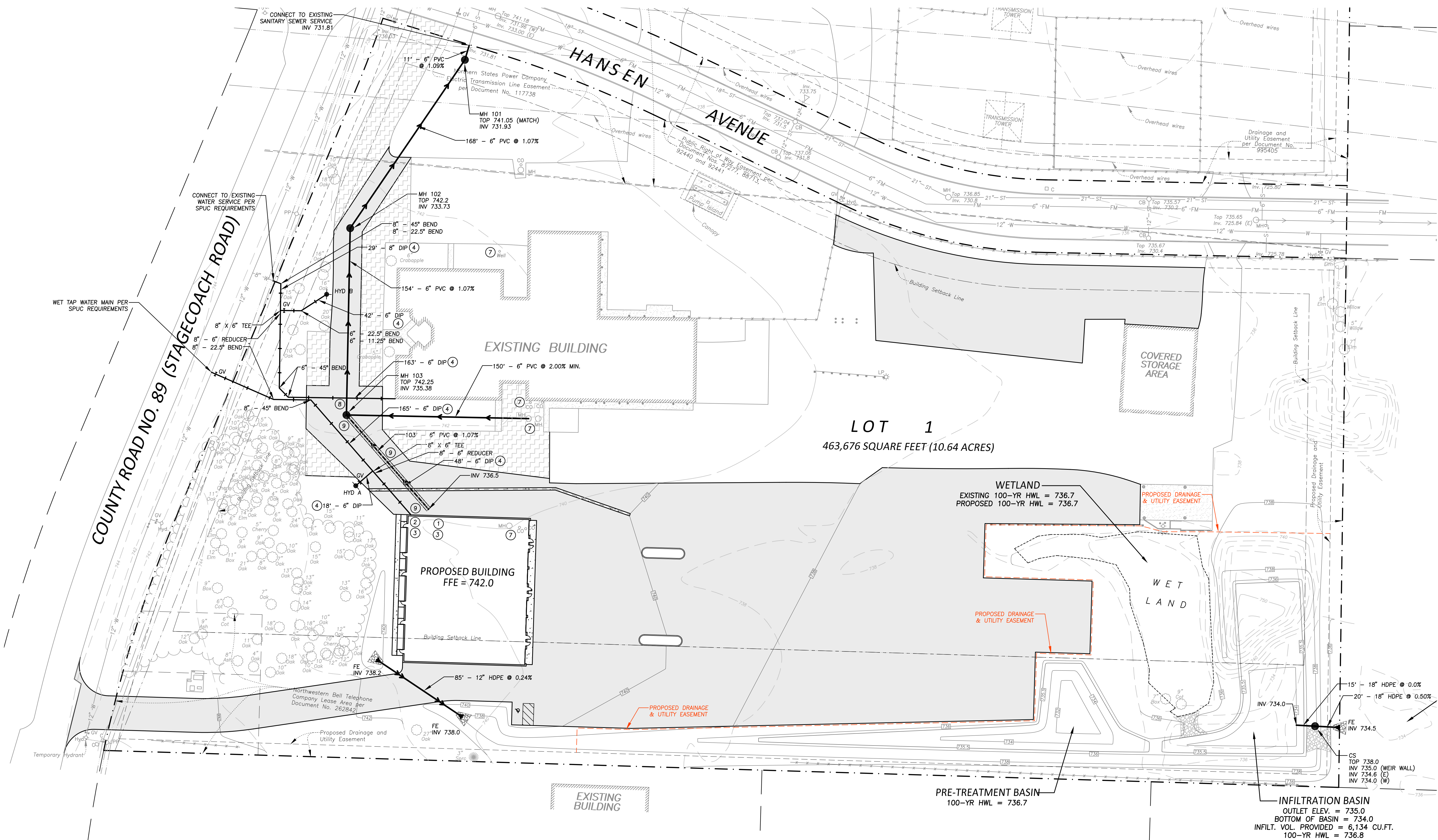
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name _____ Date _____ Reg. No. _____

REHDER & ASSOCIATES, INC.
Civil Engineers & Land Surveyors

3440 Federal Drive, Suite 110
Shakopee, MN 55425
Telephone 651-452-5051
www.rehder.com

PROJECT NO.: 221-1321.147 DRAWING FILE: 1321147.DWG



UTILITY NOTES

- 1 - All sewer services to extend to a point 5' from proposed building.
- 2 - Bring water service into proposed building and cap at the floor.
- 3 - Verify all service locations and inverts with mechanical engineer before construction.
- 4 - Water service to have a minimum of 7.5' of cover.
- 5 - Water meter location shall be within the prescribed distance from the outside wall.
- 6 - All water service lines to have V-Bio Enhanced Polyethylene Encasement and installed per the SPUC Water Policy Manual.
- 7 - Abandon/remove existing well and septic system per County requirements.
- 8 - Maintain a minimum of 18" of vertical separation between water main and sewer.
- 9 - Insulate sanitary sewer per City Detail 2007.

WET TAP NOTES

1. All fees to be paid before tapping to commence.
2. Notification to SPUC 24-48 hours before tap is started.
3. Signed plans and wet tap permit need to be on site.
4. No wet taps smaller than 3", unless service taps (Checklist C). Main being tapped must be larger than tap itself.
5. Concrete blocking to undisturbed area.
6. If on cast iron pipe, blocking/kicker behind all taps.
7. Poly to be installed around wet tap to be a protective barrier between cement and wet tap.
8. Copper straps from existing main to new main, also around cathodically protected valves/fixtures.
9. Wet taps shall be level. (If you need a riser on nut extension, install for a standard 10' key before backfilling).
10. Separations from Sanitary 18" above and Storm 3" shall be enforced. 7.5' cover minimum.
11. Taps to be a minimum of 3' from bell end of water main or other fittings.
12. Megalugs to be used on all new joints.
13. SPUC shall check all valves in area, and count services to be affected and verify size at main to isolate tap if problem occurs.
14. Shared fire/domestic lines to be tested by Shakopee Fire Inspector at 200 psi min. for 2 hrs. with a calculated loss.
15. All construction work must be completed before hydrostatic testing. (Such as Sanitary/Storm sewer lines)

GOPHER STATE ONE CALL

CALL 48 HOURS BEFORE YOU DIG
TWIN CITY AREA 651-454-0002
MN. TOLL FREE 1-800-252-1166

HYDRANT SCHEDULE

HYDRANT NO.	BREAKOFF FLANGE
HYD A	741.9
HYD B	742.85

CATCH BASIN/MANHOLE SCHEDULE

STRUCTURE NO.	BARREL SIZE	NEENAH CASTING NO.
MH 101	48"	R-1642B
MH 102	48"	R-1642B
MH 103	48"	R-1642B

PROGRESS PRINT
9-27-22

LEGEND

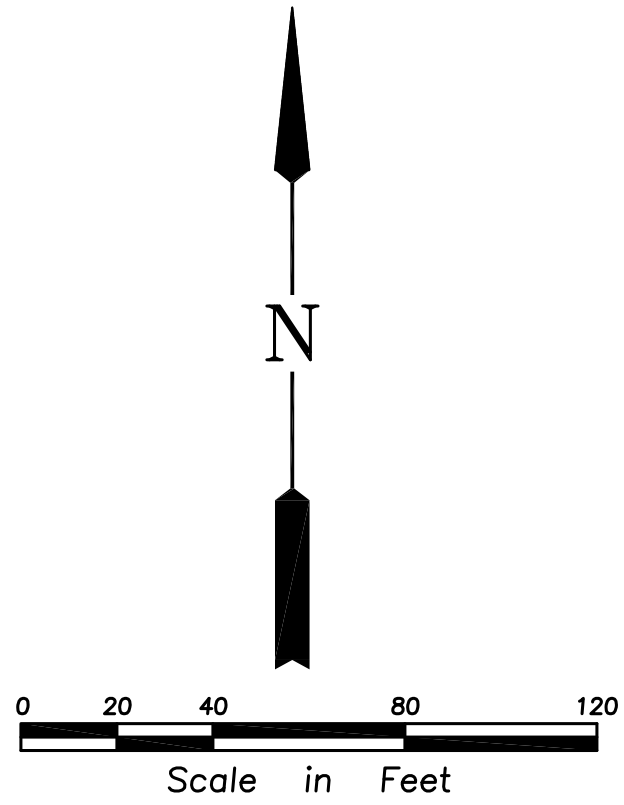
- PROPOSED MANHOLE
- PROPOSED CLEANOUT
- PROPOSED CATCH BASIN
- ◆ PROPOSED HYDRANT
- ◆ PROPOSED GATE VALVE
- ◄ PROPOSED FLARED END
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED CONCRETE
- PROPOSED BITUMINOUS
- PROPOSED BITUMINOUS (CLASS 5 TO REMAIN)
- PROPOSED CONTOUR
- PROPOSED ELEVATION
- BOUNDARY/ROW/BLOCK LINE
- - - EASEMENT
- - - BUILDING/PARKING SETBACK LINE
- DRAINAGE ARROW
- ST EXISTING STORM SEWER
- EXISTING CONTOUR
- x 995.50 EXISTING ELEVATION

APPROVED FOR ONE YEAR FROM THIS DATE

SHAKOPEE PUBLIC UTILITIES COMMISSION

DATE

All materials and construction methods shall comply with Shakopee Public Utilities water policy manual dated August 4, 2014.



Issued

LURID SUBMITTAL
ADDRESS CITY & LURID COMMENTS
PLUMBING PERMIT
ADDRESS CITY COMMENTS

UTILITY PLAN
RELIAKOR
CITY OF SHAKOPEE

SHEET NUMBER

C4

I hereby certify that this plan 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 _____ Date _____ Reg. No. _____

3440 Federal Drive, Suite 110
Shakopee, MN 55125
Telephone 651-452-5051
www.rehder.com

REHDER
& ASSOCIATES, INC.
Civil Engineers & Land Surveyors

PROJECT NO.: 221-1321.147 DRAWING FILE: 1321147.DWG