

875 Wayzata Blvd W



Doc No **A9779504**

Certified, filed and/or recorded on  
4/23/12 12:00 PM

Office of the County Recorder  
Hennepin County, Minnesota  
Rachel Smith, Acting County Recorder  
Mark V. Chapin, County Auditor and Treasurer

Deputy 45

Pkg ID 796956M

**Doc Name: Resolution**

Document Recording Fee \$46.00

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**Document Total** \$46.00



# CITY of ORONO

RESOLUTION OF THE CITY COUNCIL

NO. 6032

**A RESOLUTION GRANTING  
RPUD MASTER DEVELOPMENT PLAN APPROVAL  
FOR KRAUS-ANDERSON REALTY COMPANY  
FOR ORONO SENIOR HOUSING  
PLANNED UNIT DEVELOPMENT NO. 7  
FILE #11-3498**

**WHEREAS**, the City of Orono (hereinafter the "City") is a municipal corporation organized and existing under the laws of the State of Minnesota; and

**WHEREAS**, the City Council of the City of Orono (hereinafter "City Council") has adopted land development regulations for the orderly, economic and safe development of land within the City; and

**WHEREAS**, Kraus-Anderson Realty Company (hereinafter the "Developer") has an interest in the property at 875 Wayzata Boulevard West, legally described in **Exhibit A** attached hereto (hereinafter the "Property"); and

**WHEREAS**, the City Council has considered the application by the Developer for rezoning of the Property to RPUD - Residential Planned Unit Development as well as development of the Property by the Planned Unit Development (PUD) process; and

**WHEREAS**, on July 12, 2010 the City Council adopted Resolution No. 5948 granting General Concept Plan Approval for the proposed development, which includes the following elements:

1. Rezoning of the Property from RR-1B Single Family Rural Residential District to RPUD Residential Planned Unit Development District;
2. Construction of a single, two-story, 55-unit senior assisted living facility, a private road, and a parking lot; and

**WHEREAS**, on March 28, 2011 the City Council accepted a change from the conditions of Resolution No. 5948 to allow construction of a single, two-story, 62-unit senior housing assisted living facility which is 7 more units than originally approved; and



# CITY of ORONO

## RESOLUTION OF THE CITY COUNCIL

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**WHEREAS**, the Developer has agreed to execute the Development Contract and Planned Unit Development Agreement (the "Agreement") for Orono Senior Housing Project PUD No. 7 ("PUD No. 7") providing for the installation of certain improvements as a condition of site plan approval for the construction of certain public and private improvements on the Property, and which Agreement documents the general and detailed conditions for development and use of the Property; and

**WHEREAS**, the Developer has agreed to construct a private road and sewer and water facilities to be privately owned and upon satisfactory completion to grant public easements to the City over the sewer and water improvements to be constructed by the developer within the Property; and

**WHEREAS**, the Developer has completed or has agreed to complete all other requirements of the Zoning Code and related Ordinances of the City including:

1. Completion of and adherence to all requirements and conditions of Resolution No. 5948.
2. Dedication on the plat of Drainage and Utility Easements.
3. Submittal of Minnehaha Creek Watershed District (MCWD) permit approving the grading and stormwater management facilities plan for the development of the Property as proposed per the approved Grading, Drainage and SWPPP Plan as noted herein.
4. Payment to the City of Stormwater and Drainage Trunk Fees for the development of the Property in the amount of \$74,410.00 as established in General Concept Plan Approval Resolution No. 5948.
5. Payment of a Park Dedication Fee in the amount of \$139,750 as established in General Concept Plan Approval Resolution No. 5948; and

**WHEREAS**, City staff and consultants have reviewed the plans for this PUD application and hereby specify approval of each attached plan and identify them as part of the official record for PUD No. 7:

1. Approval of site plan and grading/drainage plans per the "Grading Plan", "Enlarged Grading Plan", "Erosion Control Plan", "Grading and Erosion Control Details" and "SWPPP Plan" Sheets C3.1, C3.2, C3.3, C3.4 and SWPPP.1 dated March 17, 2011 subject to any additional requirements of the MCWD and subject



# CITY of ORONO

## RESOLUTION OF THE CITY COUNCIL

NO. 6032

to the additional requirements and conditions specified by the City Engineer in his letter dated March 23, 2011.

2. Approval of the wetland buffer plans per the "Wetland Buffer Maintenance Plan" and "Wetland Buffer and Upland Seeding Plan" Sheets C3.5 and L2.2 dated March 17, 2011 subject to the additional requirements and conditions specified by the City Engineer in his letter dated March 23, 2011.
3. Approval of sanitary sewer and watermain plan per the "Sanitary Sewer and Watermain Plan" and "Utility Details Plans" Sheets C4.1, C4.3, C4.4 and C4.5 dated March 17, 2011 subject to the additional requirements and conditions specified by the City Engineer in his letter dated March 23, 2011.
4. Approval of storm drainage plan per the "Storm Drain Plan" Sheet C4.2 dated March 17, 2011 subject to the additional requirements and conditions specified by the City Engineer in his letter dated March 23, 2011.
5. Approval of the tree preservation and landscape plans per the "Tree Preservation Plan", "Landscape Plan", "Enlarged Landscape Plan", and "Landscape Details" Sheets L1.1, L2.1, L2.3 and L2.4 dated March 17, 2011 subject to coordinating with staff the placement of required trees not specifically located on the approved landscape plan as well as subject to conditions specified by the City Engineer in his letter dated March 23, 2011.

**NOW, THEREFORE, BE IT RESOLVED** that based on the findings of Resolution No. 5948, the City Council of the City of Orono does hereby grant Master Development Plan Approval for PUD No. 7, subject to the following conditions:

1. General Development Plan Approval is granted subject to conditions established within Resolution No. 5948 and subject to the conditions established within the Agreement for PUD No. 7 and other pertinent documents.
2. Upon the final approval and execution of this resolution and the Agreement for PUD No. 7, the City Council shall formally approve an ordinance amending the official zoning map of the City to rezone the Property from RR-1B Single Family Rural Residential District to RPUD Residential Planned Unit Development District, and amending the Orono Zoning Code by adding language establishing PUD No. 7 to include the Property.



# CITY of ORONO

## RESOLUTION OF THE CITY COUNCIL

NO. 6032

3. Upon approval of this Resolution the City Council shall direct the Mayor and Clerk to execute other documents required by this PUD rezoning, including but not limited to the Agreement for PUD No. 7.
4. The Developer shall execute the Stormwater Maintenance Agreement as noted within the Agreement for PUD No. 7.
5. The Developer shall establish an escrow account and executing an Escrow Agreement as established within the Agreement for PUD No. 7.
6. The Developer shall provide a Letter of Credit for the amount noted in the City Engineer's Estimate and established within the Agreement for PUD No. 7.
7. The Developer shall prepare, execute and provide an acknowledgment of risk for parking lot, road and underground utilities as set forth within the City Engineer's memo dated March 23, 2011.
8. The residence structure developed on the property shall be in conformity with the location, design and size requirements established in Resolution 5948 and in conformity with the Agreement for PUD No. 7. Any proposed development determined by the City to not be in conformity with said Agreement may be made only after a public hearing conducted by the Council. Any changes shall be recorded as amendments to the recorded copy of the final development plan.
9. If substantial development has not occurred within one year after approval of PUD No. 7 as set forth in the Agreement for PUD No. 7, the City Council may declare the approvals granted within this resolution and within said Agreement as null and void.
10. The Agreement for PUD No. 7 shall be filed with Hennepin County on or before March 28, 2012 together with a certified original copy of this resolution and executed copies of the Agreements, easements, and covenants pertinent thereto. The approval granted by this Resolution shall expire if the Agreement for PUD No. 7 has not been filed by the date specified above. In that event, it will be necessary to file a new application with the City of Orono for subdivision review.



# CITY of ORONO

RESOLUTION OF THE CITY COUNCIL

NO. 6032

11. The approvals granted in this Resolution shall not become effective until such time that the Developer successfully completes purchase and provides suitable evidence of ownership of the Property.
12. The approvals granted in this Resolution shall become effective only when all conditions of approval requiring actions by the Developer have been satisfied.



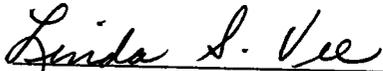
# CITY of ORONO

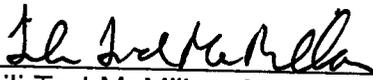
RESOLUTION OF THE CITY COUNCIL

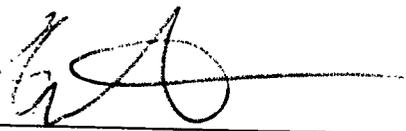
NO. 6032

Adopted by the City Council of Orono this 28<sup>th</sup> day of March, 2011.

ATTEST:

  
Linda S. Vee, City Clerk

  
Lili Tod McMillan, Mayor

  
Developer (On behalf of Kraus-Anderson Realty Company)



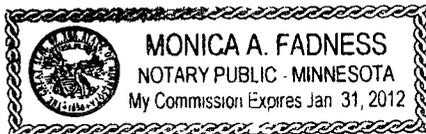
# CITY of ORONO

RESOLUTION OF THE CITY COUNCIL

NO. 6032

STATE OF MINNESOTA  
COUNTY OF HENNEPIN

The foregoing instrument was acknowledged before me on this 28 day of March, 2011 by Lili Tod McMillan, Mayor of the City of Orono, a Minnesota municipal corporation and said instrument was executed on behalf of the City.



Monica A. Fadness  
Notary Public

STATE OF MINNESOTA  
COUNTY OF HENNEPIN

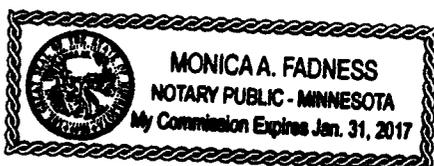
The foregoing instrument was acknowledged before me on this 23 day of January, 2011 by Linda S. Vee, City Clerk of the City of Orono, a Minnesota municipal corporation and said instrument was executed on behalf of the City.



Monica A. Fadness  
Notary Public

STATE OF MINNESOTA  
COUNTY OF HENNEPIN

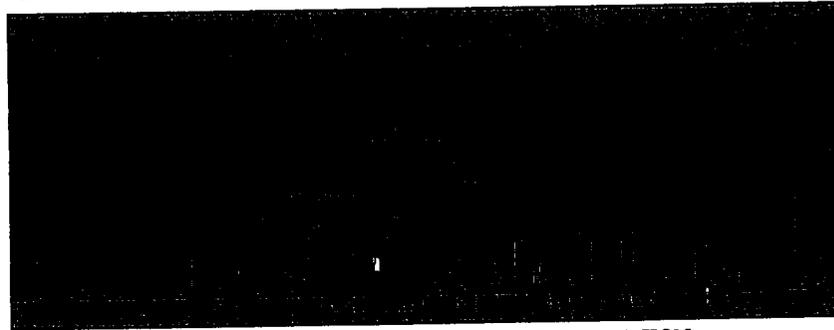
This instrument was acknowledged before me on this 9<sup>th</sup> day of March, 2011 by Matt S. Alexander, the Dir. of Real Estate of Kraus-Anderson Realty Co., a Minnesota corporation, on behalf of the corporation.



Monica A. Fadness  
Notary Public

# ORONO SENIOR HOUSING

NEW HIGHWAY 12 AND LUCE LINE TRAIL      ORONO, MINNESOTA



EXTERIOR MAIN ENTRANCE EAST ELEVATION

## PROJECT PARTICIPANTS

### OWNER / DEVELOPER

Krause-Anderson Realt Company  
4210 West Old Shakopee Road  
Bloomington, MN 55437  
Contact: Matt Alexander  
(952) 881-8166  
(952) 881-8114 FAX

### MANAGEMENT COMPANY

Ebenezer Management Services  
2722 Park Avenue South  
Minneapolis, MN 55407  
Contact: Susan Farr  
(612) 879-2294

### ARCHITECT

Pope Associates Inc.  
1255 Energy Park Dr.,  
Saint Paul, MN 55108  
Contact: Dan Neudecker  
(651) 642-9200  
(651) 642-1101 FAX

### CIVIL ENGINEERING/LANDSCAPE

RHO DEVELOPMENT CONSULTING  
P.O. Box 357  
Long Lake, MN 55356  
Contact: Steve Johnston - Civil  
Contact: Pilar Sarathong - Landscape  
(612) 382-4804  
(952) 476-0876 FAX

### ELECTRICAL

Convergent Media/Collins Electrical  
278 State Street  
Saint Paul, MN 55107  
Contact: Dave Hove  
(651) 224-2833  
(651) 292-0359 FAX

## SHEET INDEX

GENERAL		DATE FOR CITY SUBMITTAL (M/Y/YY)	DATE FOR STATE SUBMITTAL (M/Y/YY)			
A0.0	TITLE SHEET	●	●			
<b>CIVIL</b>						
C1.1	EXISTING CONDITIONS AND DEMOLITION PLAN	●	●			
C2.1	SITE PLAN	●	●			
C2.2	ENLARGED SITE PLAN	●	●			
C2.3	SITE PLAN DETAILS	●	●			
C3.1	GRADING PLAN	●	●			
C3.2	ENLARGED GRADING PLAN	●	●			
C3.3	EROSION CONTROL PLAN	●	●			
C3.4	GRADING AND EROSION CONTROL DETAILS	●	●			
C3.6	WETLAND BUFFER MAINTENANCE PLAN	●	●			
C4.1	SANITARY SEWER & WATERMAIN PLAN	●	●			
C4.2	STORM DRAIN PLAN	●	●			
C4.3	UTILITY DETAILS	●	●			
C4.4	UTILITY DETAILS	●	●			
C4.5	UTILITY DETAILS	●	●			
L1.1	TREE PRESERVATION PLAN	●	●			
L2.1	LANDSCAPE PLAN	●	●			
L2.2	WETLAND BUFFER & UPLAND SEEDING PLAN	●	●			
L2.3	ENLARGED LANDSCAPE PLAN	●	●			
L2.4	LANDSCAPE DETAILS	●	●			
SWPPP.1	SWPPP PLAN	●	●			
<b>ARCHITECTURAL</b>						
A2.1	FIRST FLOOR PLAN	●	●			
A2.2	SECOND FLOOR PLAN	●	●			
A2.3	ENLARGED UNIT FLOOR PLANS	●	●			
A3.0	EXTERIOR ELEVATIONS	●	●			
<b>ELECTRICAL</b>						
1 of 1	SITE PHOTOMETRIC PLAN	●	●			

**RECEIVED**  
MAR 17 2011  
CITY OF ORONO

## VICINITY MAP

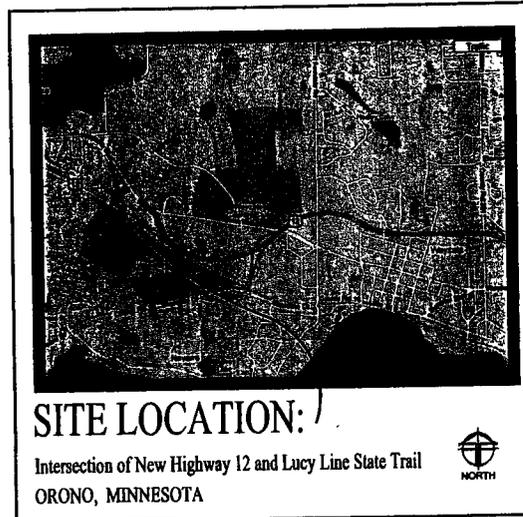


Exhibit D

**POPE**

Pope Associates Inc.  
1255 Energy Park Drive  
St. Paul, MN 55108  
Tel: 651-642-9200  
Fax: 651-642-1101

**KRAUSE-ANDERSON, COMPANIES**

**FBI NEUER**

ORONO  
SENIOR  
HOUSING  
ORONO, MN

CITY  
SUBMITTAL

## TITLE SHEET

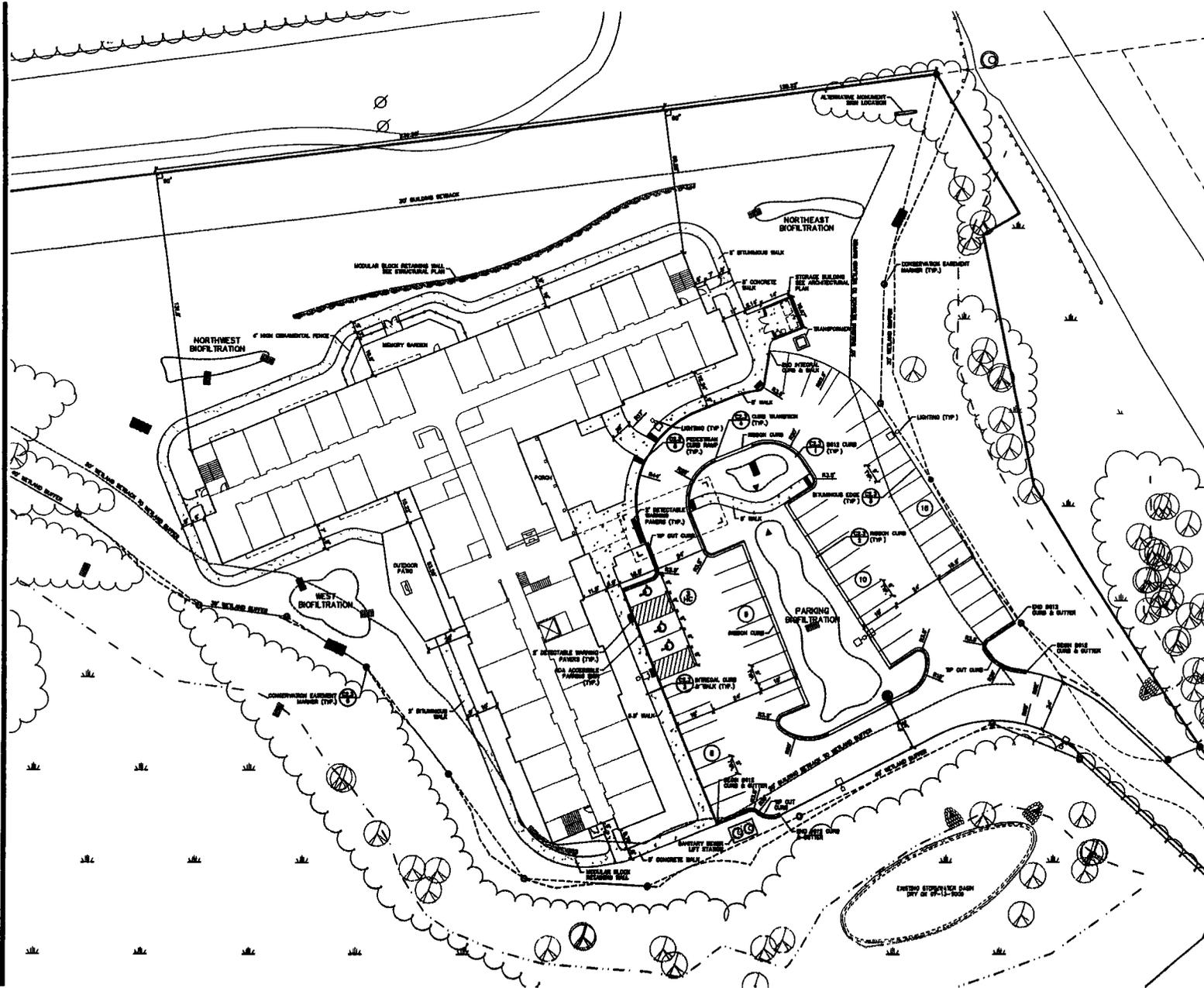
Date of Submittal: \_\_\_\_\_  
CITY SUBMITTAL NUMBER: 02-12-11  
CITY SUBMITTAL ENGINEER: 02-12-11

Project No. 41900-10100  
Date: \_\_\_\_\_  
Sheet No. 010

SHEET

**A0.0**





- LEGEND**
- BIRTH CLUMP & BUTTER
  - SPECIAL CLUMP & BUSH
  - BIRTH CLUMP WITH SPRUCE
  - BIRTH CLUMP
  - BIRTH CLUMP
  - BIRTH CLUMP
- REFER TO SHEET C2.1 FOR SITE PLAN NOTES



**POPE**  
 Pope Associates Inc.  
 225 North 1st Street  
 St. Paul, MN 55101  
 Phone: 651-222-1111  
 Fax: 651-222-1112

**BRAND-ANDERSON, COMPANY**

**LIBNIZER**

**RHO**  
 Development Consulting  
 P.O. BOX 307  
 LONG LAKE, MN 55339  
 Telephone: 612-438-1111

**ORONO SENIOR HOUSING**  
 ORONO, MN

**DEVELOPMENT STAGE APPLICATION**

**ENLARGED SITE PLAN**

DATE OF PLAN: 01-14-11  
 CITY SUBMITTAL NUMBER: 01-14-11  
 CITY ENGINEER COMMENTS: 02-02-11  
 MULTIDISCIPLINARY SUBMITTAL: 02-02-11  
 DEVELOPMENT STAGE: 02-17-11  
 APPLICATION:

I HEREBY CERTIFY THAT THE PLAN AND SPECIFICATIONS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND I AM NOT PROVIDING ANY CONCEALED DEFECTS OR OMISSIONS TO THE PUBLIC OR ANY OTHER PARTY.  
 SIGNATURE: [Signature]  
 TITLE: [Title]  
 DATE: 02/17/11  
 SCALE: AS SHOWN  
 SHEET: C2.2

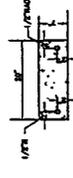
**C2.2**



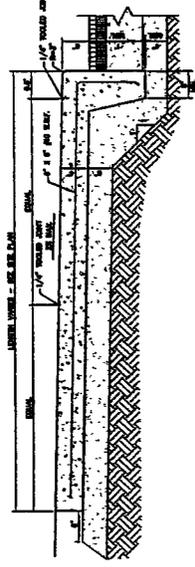
ALL CURBS SHALL BE CONCRETE UNLESS OTHERWISE NOTED. CURBS SHALL BE 4" THICK UNLESS OTHERWISE NOTED. CURBS SHALL BE FINISHED WITH A 1/4" RADIUS. CURBS SHALL BE FINISHED WITH A 1/4" RADIUS. CURBS SHALL BE FINISHED WITH A 1/4" RADIUS.



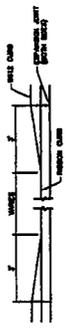
1 B&I CURB NO SCALE



2 RIBBON CURB NO SCALE



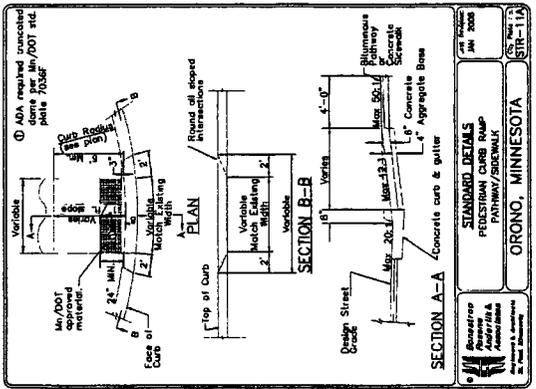
3 INTEGRAL CURB & WALK NO SCALE



4 CURB TRANSITION NO SCALE



5 BITUMINOUS EDGE NO SCALE



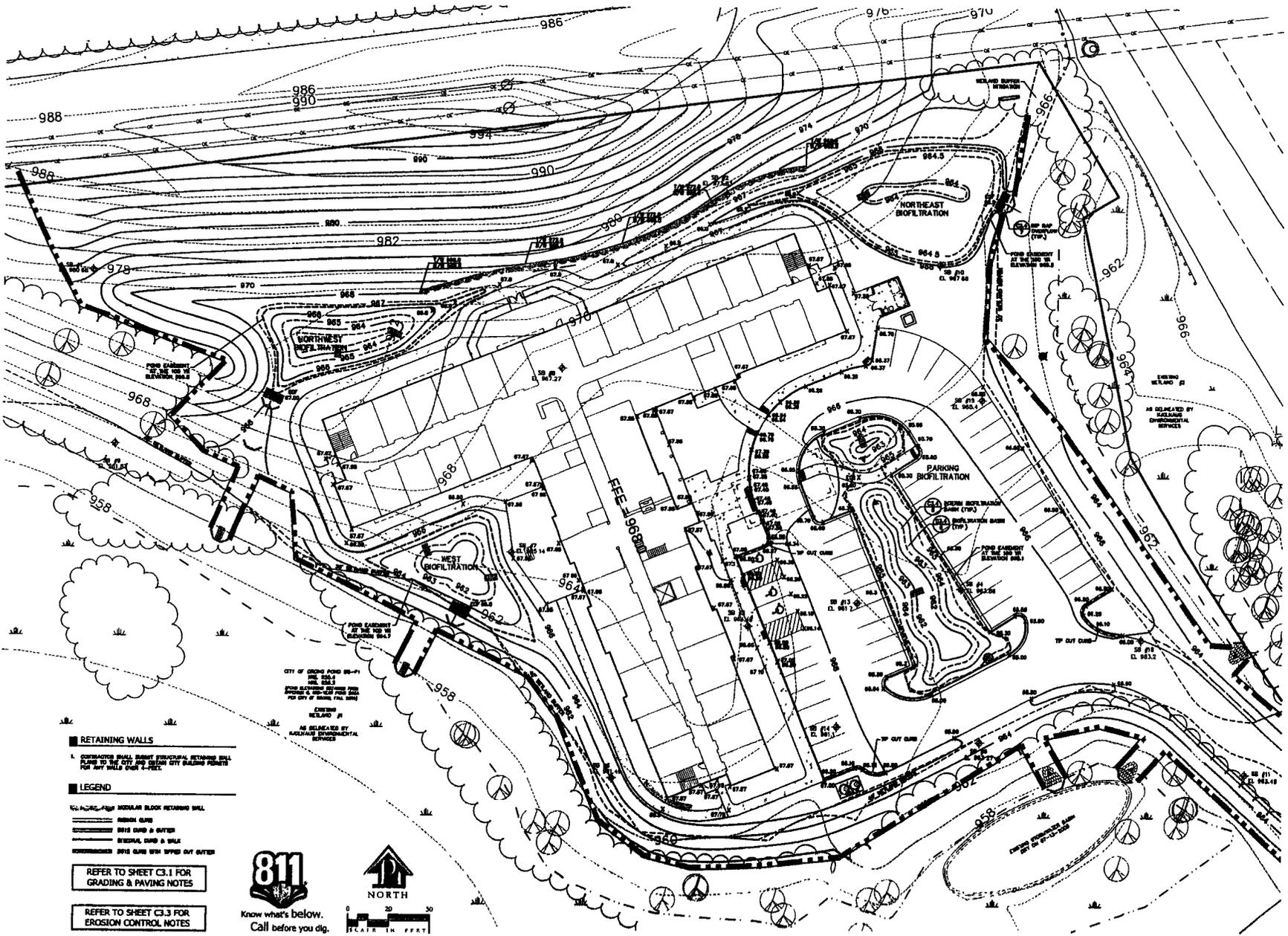
6 PEDESTRIAN CURB RAMP NO SCALE



7 CONSERVATION EASEMENT MARKER NO SCALE

**CONSERVATION EASEMENT MARKER**  
 CONSTRUCTION: 1. 4" x 4" x 1/2" CONCRETE MARKER SET IN 4" x 4" x 1/2" CONCRETE BASE.  
 FINISH: 1. TOP SURFACE SHALL BE FINISHED WITH A 1/4" RADIUS.  
 MATERIALS: 1. CONCRETE SHALL BE FINISHED WITH A 1/4" RADIUS.  
 SETTING: 1. MARKER SHALL BE SET IN A 4" x 4" x 1/2" CONCRETE BASE.  
 SET AT LEAST 48 HOURS IN THE SHADOW.





**POPE**

Pope Associates Inc.  
100 University Park Drive  
St. Paul, MN 55108  
Tel: 651-451-1000  
Fax: 651-451-1001

BRAVIS-ANDERSON COMPANIES

**EBENZER**

**RHO**  
Development Consulting

P.O. BOX 807  
LOWELL, MN 56001

**ORONO SENIOR HOUSING**  
ORONO, MN

**DEVELOPMENT STAGE APPLICATION**

**ENLARGED GRADING PLAN**

Issue of Title: \_\_\_\_\_  
CITY SUBMITTAL DATE: 01-16-11  
CITY ENGINEER COMMENTS: 03-05-11  
WATERWORKS SUBMITTAL: 03-05-11  
DEVELOPMENT STAGE APPLICATION: 03-17-11

DESIGNED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DATE: 03/17/2011 08:30 AM

Scale: 1"=10'-0"  
Date: 03/17/2011  
Sheet: C3.2

**C3.2**

**RETAINING WALLS**

1. CONTRACTOR SHALL BUILT STRUCTURAL RETAINING WALL PER TO THE CITY AND ORONO CITY BUILDING PERMITS FOR ANY WALLS OVER 7 FEET.

**LEGEND**

- MODULAR BLOCK RETAINING WALL
- RIBBON CURB
- 24"X24" SAND & BATTER
- 18"X18" SAND & BATTER
- 24"X24" SAND WITH TYPED GRAY BATTER

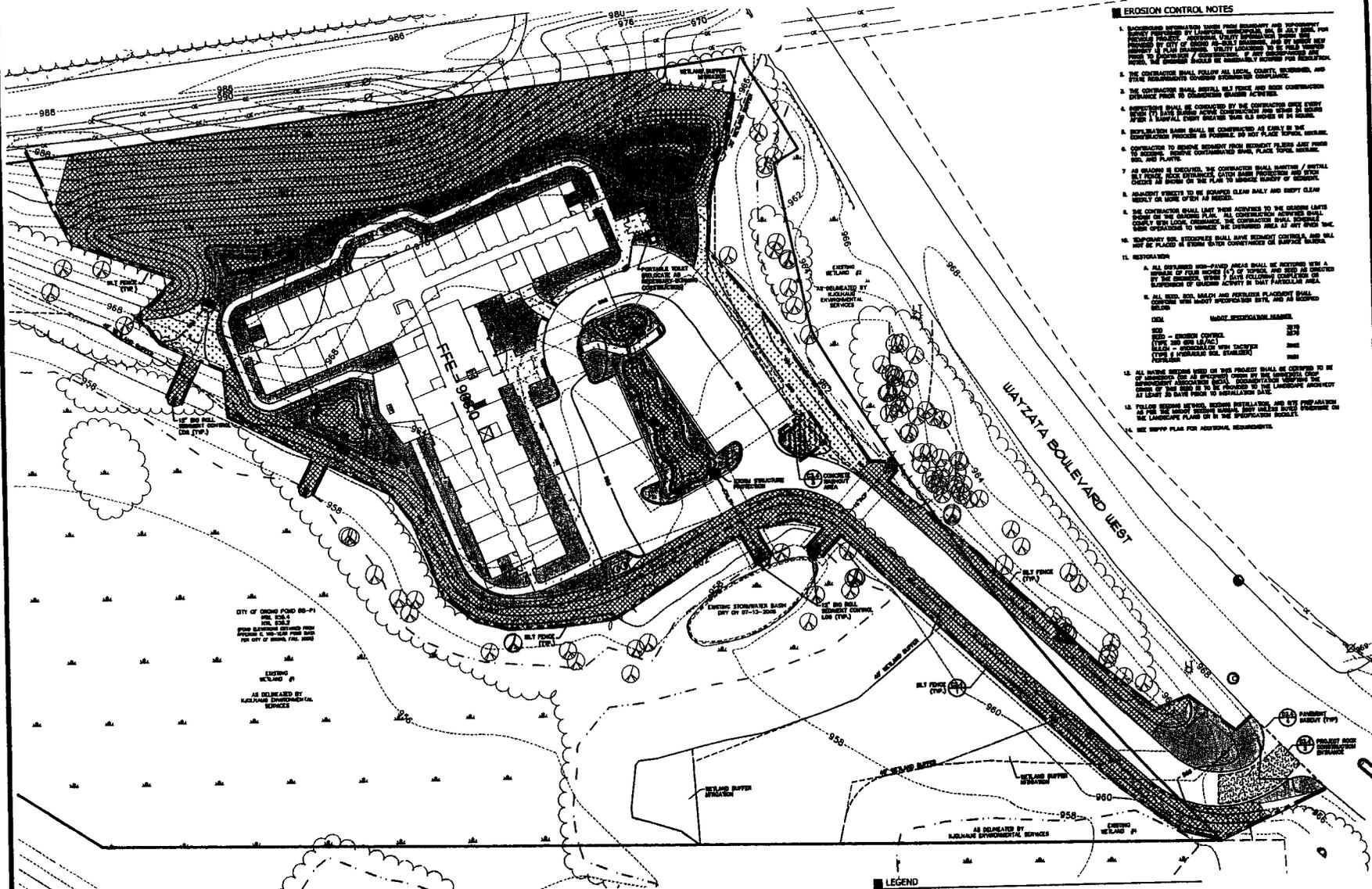
REFER TO SHEET C3.1 FOR GRADING & PAVING NOTES

REFER TO SHEET C3.3 FOR EROSION CONTROL NOTES



Know what's below.  
Call before you dig.





**EROSION CONTROL NOTES**

1. BACKGROUND INFORMATION: THIS PROJECT IS BEING CONSTRUCTED AND SUPPORTED BY THE CITY OF ORONO, MINN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF ORONO, MINN. AND THE STATE OF MINN. BEFORE COMMENCING ANY CONSTRUCTION ACTS.
2. THE CONTRACTOR SHALL FOLLOW ALL LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS GOVERNING EROSION CONTROL.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD.
4. EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AS EARLY AS POSSIBLE AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
5. CONSTRUCTION SHALL BE CONDUCTED AS EARLY AS POSSIBLE TO MINIMIZE THE EXPOSURE OF SOIL TO EROSION.
6. CONSTRUCTION SHALL BE CONDUCTED AS EARLY AS POSSIBLE TO MINIMIZE THE EXPOSURE OF SOIL TO EROSION.
7. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
8. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
9. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
10. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
11. RESTORATION
  - A. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
  - B. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
  - C. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
12. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
13. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
14. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
15. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
16. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.



**ORONO SENIOR HOUSING**  
ORONO, MN

**DEVELOPMENT STAGE APPLICATION**

**EROSION CONTROL PLAN**

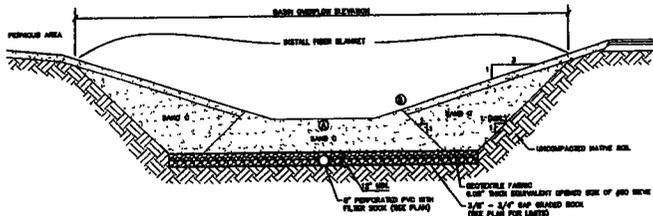
DATE: 05-14-11  
CITY SUBMITTAL: 05-14-11  
CITY ENGINEER COMMENTS: 05-20-11  
WATERBURY SUBMITTAL: 05-20-11  
DEVELOPMENT STAGE APPLICATION: 05-17-11

**LEGEND**

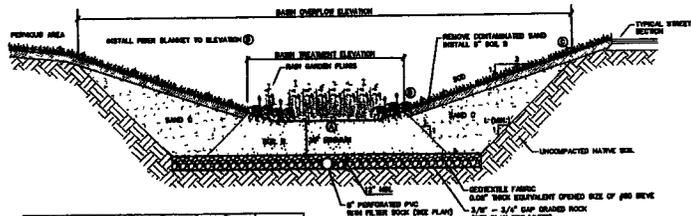
- |                                    |                            |
|------------------------------------|----------------------------|
| SEEDING & FERTILIZER               | SILT FENCE                 |
| SEEDING & TURFING                  | PERMANENT BASE SET         |
| STORMWATER BASIN                   | ROAD CONSTRUCTION ENTRANCE |
| STORM STRUCTURE PROTECTION         |                            |
| 12" NO ROLL SEDIMENT CONTROL LINER |                            |
- REFER TO SHEET L3.2 FOR SEEDING LISTS AND NOTES



**C3.3**



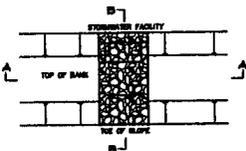
5 INTERIM BIOFILTRATION BASIN NO SCALE  
 REMOVE SAND FROM BLANKET AND SILT AND REPLACE WITH SOIL & SEEDING PINE LARCHWOODS



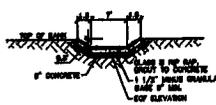
BASIN	①	②	③	PIPE DUSTY (MINIMUM)
HW	02.0	02.1	02.2	02.3
HE	02.0	02.06	02.1	02.15
H	02.0	02.0	02.0	02.0
PAVING	02.0	02.0	02.0	02.0

SOILS  
 18-24% FINE CONSTRUCTION SAND ASTM D-28 OR ASTM C-33 WITH GRAIN SIZE OF 4.75-4.75"  
 18-24% FINE GRAINED LEAF COMPOST ASTM GRADE 2  
 18-24% CONSTRUCTION SAND  
 CLEAN CONSTRUCTION SAND FREE OF SILTCEOUS MATERIALS ASTM D-28 OR ASTM C-33 WITH GRAIN SIZE OF 4.75-4.75"

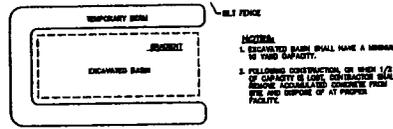
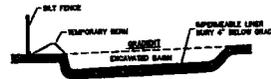
6 BIOFILTRATION BASIN NO SCALE



CONCRETE CLASS II 4\"/>

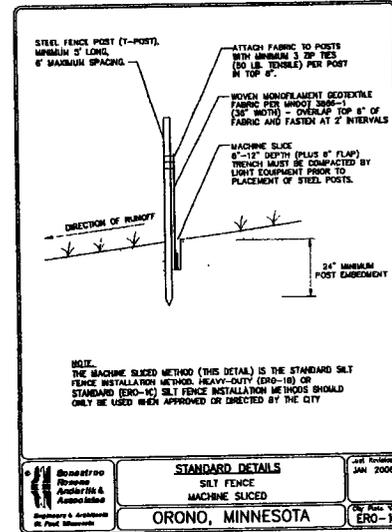


7 RIP RAP OVERFLOW NO SCALE

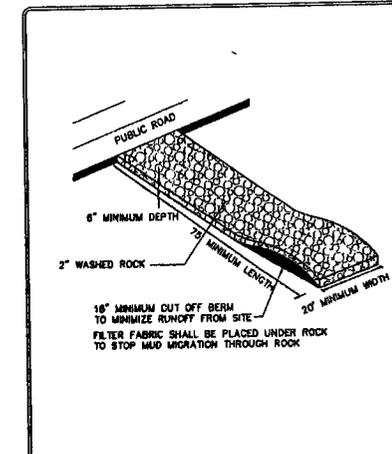


3 CONCRETE WASHOUT AREA NO SCALE

- NOTES:  
 1. EXCAVATED BASIN SHALL HAVE A MINIMUM 1% FLOOR INFLATNESS.  
 2. FOLLOWING CONSTRUCTION OR WHEN 1/2 OF CAPACITY IS FULL, CONSTRUCTION SHALL REMOVE ACCUMULATED CONCRETE FROM THE END BERM OF AT PROPER FACILITY.



1 SILT FENCE NO SCALE



2 PROJECT ROCK CONSTRUCTION ENTRANCE NO SCALE



PERMEABLE GEOTEXTILES  
 PERMEABLE GEOTEXTILES  
 PERMEABLE GEOTEXTILES



2000 BOSTON  
 LONG LANE, 1000 BOSTON  
 MASSACHUSETTS 02111

ORONO SENIOR HOUSING ORONO, MN

DEVELOPMENT STAGE APPLICATION

GRADING & EROSION CONTROL DETAILS

DATE OF ISSUE: 05-16-11  
 CITY SUBMITTAL REVIEW: 05-16-11  
 CITY ENGINEER COMMENTS: 02-09-11  
 WATERWORKS SUBMITTAL: 02-02-11  
 DEVELOPMENT STAGE APPLICATION: 02-11-11

DESIGNED BY: [Signature]  
 DATE: 04/10/09  
 CHECKED BY: [Signature]  
 DATE: 04/10/09  
 DRAWN BY: [Signature]  
 DATE: 04/10/09

C3.4

**WETLAND BUFFER MAINTENANCE SCHEDULE**

- YEAR 1**
- A. ESTABLISHMENT (SPRING SEEDING)**
- SPRING SEEDING**
1. PREPARE SITE BETWEEN LATE APRIL-MAY
  2. SEED BETWEEN MAY 1-JULY 1
- FALL SEEDING**
1. PREPARE SITE BETWEEN LATE AUGUST-EARLY SEPTEMBER
  2. SEED BETWEEN LATE SEPTEMBER TO FROST
- B. MAINTENANCE**
1. MOW UPLAND EVERY 30 DAYS TO 8-10 INCHES BETWEEN JUNE 15-AUGUST 15
  2. MOWING SHOULD BE COMPLETED WHEN ANNUAL WEEDS ARE NO TALLER THAN 2 FEET.
  3. APPLY INVASIVE SPECIES CONTROL (SEE BUCKTHORN & GARLIC MUSTARD CONTROL PLANS)
- C. EVALUATION**
1. CONDUCT & SUBMIT ANNUAL WETLAND BUFFER EVALUATION REPORT.
- YEAR 2**
- A. MAINTENANCE**
1. MOW TWICE BEFORE SEEDS SET SEED AROUND JUNE 15 AND PROCEED JULY 30 TO 8-10 INCHES
  2. APPLY INVASIVE SPECIES CONTROL (SEE BUCKTHORN & GARLIC MUSTARD CONTROL PLANS)
- B. EVALUATION**
1. MONITOR TWICE BETWEEN APRIL AND SEPTEMBER
  2. SUBMIT ANNUAL WETLAND BUFFER EVALUATION REPORT.

- YEAR 3**
- A. MAINTENANCE**
1. MOW ONLY IF NECESSARY
  2. APPLY INVASIVE SPECIES CONTROL (SEE BUCKTHORN & GARLIC MUSTARD CONTROL PLANS)
  3. RE-SEED AS NEEDED.
- B. EVALUATION**
1. MONITOR TWICE BETWEEN APRIL AND SEPTEMBER
  2. SUBMIT ANNUAL WETLAND BUFFER EVALUATION REPORT.
- YEAR 4**
- A. MAINTENANCE**
1. MOW AND APPLY INVASIVE SPECIES CONTROL ONLY IF NECESSARY.
  2. RE-SEED AS NEEDED.
- B. EVALUATION**
1. MONITOR TWICE BETWEEN APRIL AND SEPTEMBER
  2. SUBMIT ANNUAL WETLAND BUFFER EVALUATION REPORT.

**HERBICIDE NOTES**

- GLYPHOSATE AND OTHER WEED-KILLERS**
1. ACTIVE INGREDIENT IS GLYPHOSATE.
  2. USE WITH BARRIER FOR CUT STUMP, PILL, AND FOLIAR APPLICATIONS.
  3. APPLY IMMEDIATELY AFTER CUT STUMP AND PILL.
- GLYPHOSATE**
1. GLYPHOSATE IS THE ACTIVE INGREDIENT IN ROUNDUP.
  2. USE WITH BARRIER FOR CUT STUMP, PILL, AND FOLIAR APPLICATIONS.
  3. DO NOT USE ACTIVE INGREDIENT IN 3. REQUIRED FOR CUT STUMP AND PILL.
  4. USE ACTIVE INGREDIENTS IN REQUIRED FOR FOLIAR APPLICATION.
  5. APPLY WITH 24 HOURS OF THE CUT STUMP AND PILL.
  6. MIXED BARRIED CHEMICAL.
- ROUNDUP**
1. ROUNDUP IS A GLYPHOSATE PRODUCT FOR AGRICULTURE.
  2. USE ON PLANTS WITHIN WETLANDS AND WITHIN 10' OF WETLAND EDGES.
  3. USE THE SAME RATE AS OUTLINED ABOVE FOR GLYPHOSATE.

**GARLIC MUSTARD CON.**

- TABLE 1 - INITIAL MAINTENANCE**
1. LAKE SPRING TO EARLY SUMMER, CARRY OUT GARLIC MUSTARD IN WETLAND AND BUFFER AREAS. MOW WETLAND AND BUFFER ONLY AREAS COVERED WITH GARLIC MUSTARD.
  2. AVOID COMPACTING SOILS OF ALL WETLAND BUFFER AREAS.
  3. LIFE PULL SOME PLANTS PLANTS AND BURNING, CARRY OUT GARLIC MUSTARD IN WETLAND BUFFER AREAS AS SOON AS PRACTICABLE. GREAT WEED MANAGEMENT CHEMICAL TREATMENT.
- TABLE 2 - FUTURE MAINTENANCE**
1. ONLY SPRING OR LATE FALL, CARRY OUT GARLIC MUSTARD WITHIN THE CONTROL AREA. IMMEDIATELY REMOVE GARLIC MUSTARD.
  2. CONTINUE PHASE 2 METHODS AND SCHEDULE FOR TWO YEARS.

**GARLIC MUSTARD CONTROL METHODS**

1. THE FOLLOWING METHODS ARE APPROVED METHODS OF REMOVAL AND CONTROL. ANY DEVIATION FROM THESE METHODS NEED TO BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THEIR USE.
- WEED-KILLER CHEMICAL TREATMENT**
1. CHEMICAL TREATMENT SHALL BE APPLIED BETWEEN THE MONTHS OF MID-SEPTEMBER THROUGH OCTOBER WHEN MATURE PLANTS ARE PRESENT.
  2. SPRAY TO WET ALL FOLIAGE.
  3. USE HAND-HELD OR BACKPACK SPRAYERS WITH ULTRA-LOW VOLUME NOZZLES TO MINIMIZE CONTACT WITH DESIRABLE FOREST PLANTS.
  4. APPLY BROADLEAF CHEMICAL HERBICIDE GLYPHOSATE OR ROUNDUP.

**GARLIC MUSTARD CONTROL TIMELINE**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
YEAR 1	NO ACTION											
YEAR 2	PHASE 1						PHASE 2					
YEAR 3	PHASE 1						PHASE 2					

**INVASIVE SPECIES CONTROL NOTES**

1. NO MOWING, WEEDING, OR REMOVAL EFFORTS SHALL BE STARTED WITHOUT THE CAREFUL COORDINATION WITH THE STATE OF NEW HAMPSHIRE. MOWING SHALL BE LIMITED TO 8-10 INCHES. MOWING SHALL BE LIMITED TO 8-10 INCHES. MOWING SHALL BE LIMITED TO 8-10 INCHES.
2. ALL INVASIVE SPECIES REMOVAL EFFORTS SHALL BEGIN AT START OF THE CONSTRUCTION. CONTRACTORS SHALL BE RESPONSIBLE FOR BUCKTHORN SPECIFIC CONTROL, OTHER INVASIVE SPECIES RE-ESTABLISHMENT AND CONTROL.
3. MOW WITH PILES TO BURNING TO GO TO REDUCE FUELLOAD WITH SITE CONTROL.
4. COORDINATE WITH OPERATIONS AS TO MINIMIZE THE DISTURBANCE AND PROTECT CONSERVATION EASEMENT, WETLAND BUFFER, AND PROTECTED FOREST TREES.
5. ALL REMOVAL OPERATIONS IN WETLAND BUFFER AREAS SHALL BE LIMITED TO THE FALL AND WINTER ONLY SPRING PILES TO BUFFER BURNING SUPPLEMENTAL.
6. ALL REMOVAL OPERATIONS IN WETLAND BUFFER AREAS SHALL BE LIMITED TO EQUIPMENT TO AVOID ANY SOIL COMPACTION AND IMPACT TO WETLAND BUFFER.
7. DEAD BURNED MATERIAL SHALL BE BURIED IN PILES OR EARLY SPRING A MINIMUM OF 30 DAYS FOLLOWING PILE BURNING.

LIMIT INVASIVE SPECIES CONTROL OPERATIONS ONLY IN WETLAND, WETLAND BUFFERS, AND AREAS INDICATED ON PLAN. NO DISTURBANCE OR SEEDING ACTIVITIES ARE ALLOWED IN THE INVASIVE SPECIES CONTROL AREAS. ONLY AREAS CURRENTLY UNVEGETATED OR DISTURBED BY GRADING WILL BE RESEED. SEE SHEET L2.2 FOR SEEDING PLAN.

**BUCKTHORN CONTROL PLAN**

- TABLE 1 - INITIAL MAINTENANCE**
1. IDENTIFY ALL BUCKTHORN WITH TRUNK DIAMETER GREATER THAN 1" MEASURED AT GROUND LEVEL WITHIN THE CONTROL AREA. GREAT WEED MANAGEMENT CHEMICAL TREATMENT.
  2. IDENTIFY BUCKTHORN BURNING LESS THAN OR EQUAL TO THREE (3) FEET TALL WITHIN THE CONTROL AREA. GREAT WEED MANAGEMENT CHEMICAL TREATMENT.
- TABLE 2 - FUTURE MAINTENANCE**
1. IDENTIFY ALL NEW GROUND BUCKTHORN WITH TRUNK DIAMETER GREATER THAN 1" MEASURED AT GROUND LEVEL WITHIN THE CONTROL AREA. GREAT WEED MANAGEMENT CHEMICAL TREATMENT.
  2. IDENTIFY PLANTED STUMP PILES FROM PHASE 1 AND APPLY GLYPHOSATE TO STUMPS THAT HAVE RE-SPROUTED. GREAT WEED MANAGEMENT CHEMICAL TREATMENT.
  3. IDENTIFY NEW BUCKTHORN BURNING LESS THAN OR EQUAL TO THREE (3) FEET TALL WITHIN THE CONTROL AREA. GREAT WEED MANAGEMENT CHEMICAL TREATMENT.
  4. CONTINUE PHASE 2 METHODS AND SCHEDULE FOR TWO YEARS.

**BUCKTHORN CONTROL METHODS**

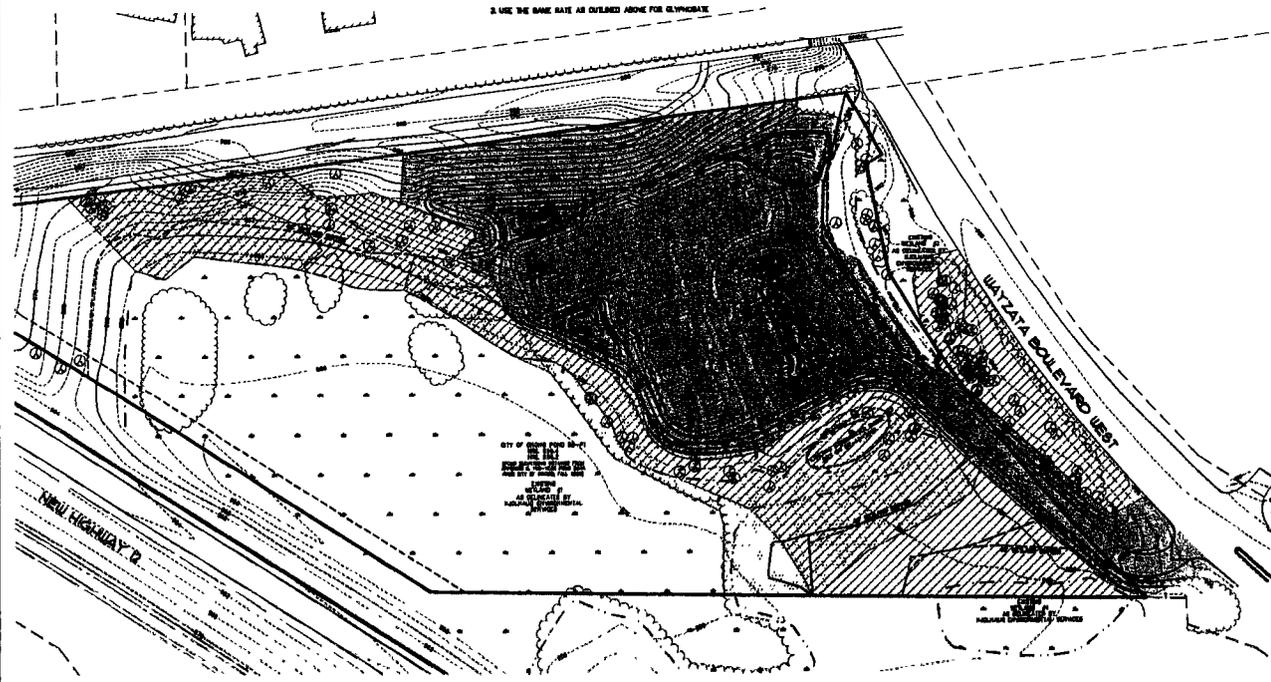
1. THE FOLLOWING METHODS ARE APPROVED METHODS OF REMOVAL AND CONTROL. ANY DEVIATION FROM THESE METHODS NEED TO BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THEIR USE.
- METHOD 1 - STUMP CHEMICAL TREATMENT**
1. FOLIAR CHEMICAL TREATMENT SHALL BE USED ON BUCKTHORN BURNING LESS THAN OR EQUAL TO THREE (3) FEET TALL.
  2. CHEMICAL TREATMENT SHALL BE APPLIED BETWEEN THE MONTHS OF MID-SEPTEMBER THROUGH OCTOBER. CHEMICAL TREATMENT SHALL NOT BE USED BETWEEN MARCH 15 AND JULY 1.
  3. SPRAY TO WET ALL FOLIAGE OF BURNING.
  4. USE HAND-HELD OR BACKPACK SPRAYERS WITH ULTRA-LOW VOLUME NOZZLES TO MINIMIZE CONTACT WITH DESIRABLE FOREST PLANTS.
  5. APPLY GLYPHOSATE CHEMICAL HERBICIDE (ROUNDUP) WITH A MAXIMUM STRENGTH OF 8.0%.
- METHOD 2 - CUT STUMP TREATMENT**
1. CUT STUMP TREATMENT SHALL BE USED ON BUCKTHORN WITH TRUNKS GREATER THAN 1" MEASURED AT GROUND LEVEL.
  2. CUT BUCKTHORN AS CLOSE AS POSSIBLE TO GROUND LEVEL AND MARK WITH COLORED WAX FOR FUTURE IDENTIFICATION AND REMOVAL.
  3. APPLY GLYPHOSATE CHEMICAL HERBICIDE (ROUNDUP) TO CUT STUMP SURFACE, BURN EXPOSED BURN SURFACE AND BURN EXPOSED BURN SURFACE USING PLYWOOD OR LOW-VOLUME SPRAYER. GLYPHOSATE CHEMICAL HERBICIDE (ROUNDUP) TO BE A MAXIMUM STRENGTH OF 8.0%.
- METHOD 3 - WEED-KILLER CHEMICAL TREATMENT**
1. CHEMICAL TREATMENT MAY BE USED ON BUCKTHORN WITH TRUNKS GREATER THAN 1" MEASURED AT GROUND LEVEL.
  2. CUT A PILL AND BURN EXPOSED SURFACE OF TRUNK AS CLOSE AS POSSIBLE TO GROUND LEVEL.
  3. APPLY GLYPHOSATE CHEMICAL HERBICIDE (ROUNDUP) TO BURN PILL AND ADJACENT BURN SURFACE USING PLYWOOD OR LOW-VOLUME SPRAYER. GLYPHOSATE CHEMICAL HERBICIDE (ROUNDUP) TO BE A MAXIMUM STRENGTH OF 8.0%.

**BUCKTHORN CONTROL TIMELINE**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
YEAR 1	NO ACTION											
YEAR 2	PHASE 1						PHASE 2					

**LEGEND**

- AREA OF BURNING TRUNKS OF BUCKTHORN LESS THAN 3 FEET TALL.
- AREA OF BUCKTHORN TO BE BURNED.
- AREA OF GARLIC MUSTARD TO BE RESEED.



Orono Planning and Engineering Inc.  
200 University Park Drive  
St. Paul, NH 03450  
Tel: 603-883-0000  
Fax: 603-883-0000

KRAUS AND ERBSON, COMPANIES



10 BOX RD  
LONDONDERRY, NH 03053  
Tel: 603-883-0000  
Fax: 603-883-0000

ORONO SENIOR HOUSING ORONO, MN

**DEVELOPMENT STAGE APPLICATION**

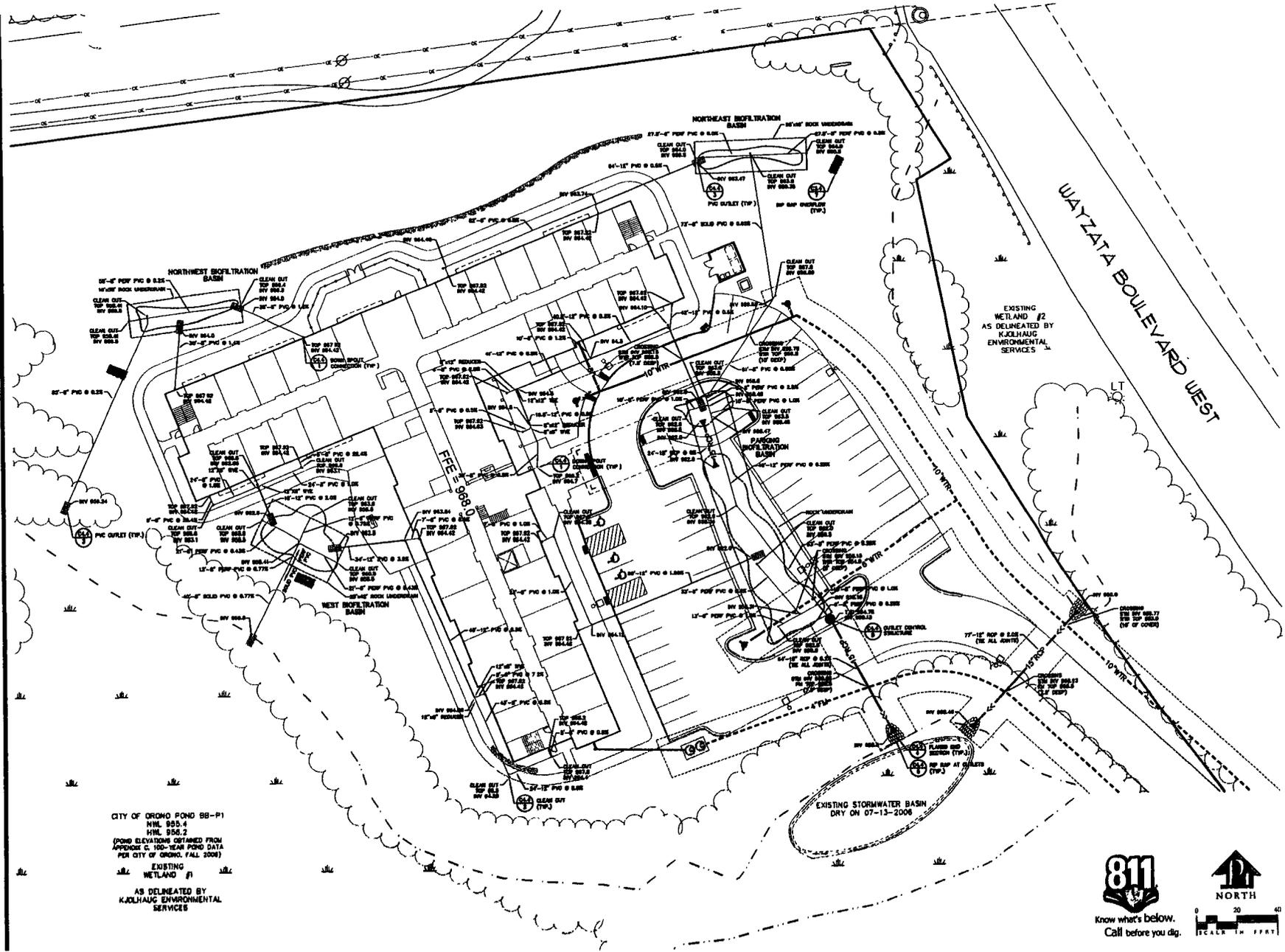
**WETLAND BUFFER MAINTENANCE PLAN**

DATE: 08/11/11  
CITY SUBMITTAL: 08-14-11  
CITY ENGINEERS COMMENTS: 08-23-11  
WATERBURY SUBMITTAL: 08-23-11  
DEVELOPMENT STAGE: 08-17-11  
APPLICATION:

1: I HEREBY CERTIFY THAT THE PLAN AND SPECIFICATIONS HEREON WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW HAMPSHIRE.  
DATE: 8/17/11  
SCALE: 1/8" = 1'-0"

SHEET  
**C3.5**





CITY OF ORONO POND BB-1  
 HNL 955.4  
 HNL 956.2  
 (POND ELEVATIONS OBTAINED FROM  
 APPENDIX C, 100-YEAR POND DATA  
 FOR CITY OF ORONO, FALL 2008)  
 EXISTING  
 WETLAND #1  
 AS DELINEATED BY  
 KJOLHAUG ENVIRONMENTAL  
 SERVICES

WAYZATA BOULEVARD WEST

EXISTING  
 WETLAND #2  
 AS DELINEATED BY  
 KJOLHAUG  
 ENVIRONMENTAL  
 SERVICES



POPE ASSOCIATES, INC.  
 2000 UNIVERSITY AVENUE  
 SUITE 200  
 ST. PAUL, MINNESOTA 55102  
 (612) 338-1000  
 WWW.POPEINC.COM



PHO  
 Development Consulting  
 3000 10TH STREET  
 LONG BEACH, WYOMING 82401  
 (307) 742-1000  
 WWW.PHOCONSULTING.COM

ORONO SENIOR HOUSING  
 ORONO, MN

DEVELOPMENT STAGE APPLICATION

STORM DRAIN PLAN

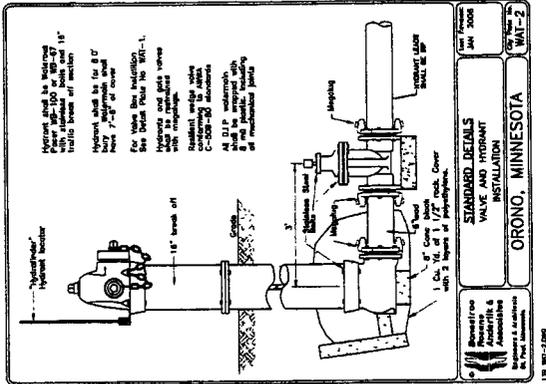
DATE	01-16-11
CITY SUBMITTAL DATE	01-16-11
CITY ENGINEERING COMMENTS	02-03-11
WATERSHED SUBMITTAL	02-03-11
DEVELOPMENT STAGE APPLICATION	02-10-11

DESIGNER	POPE ASSOCIATES, INC.
DATE	01/11/11
SCALE	AS SHOWN
DATE	01-16-11
DATE	02-03-11
DATE	02-10-11
SHEET	C4.2

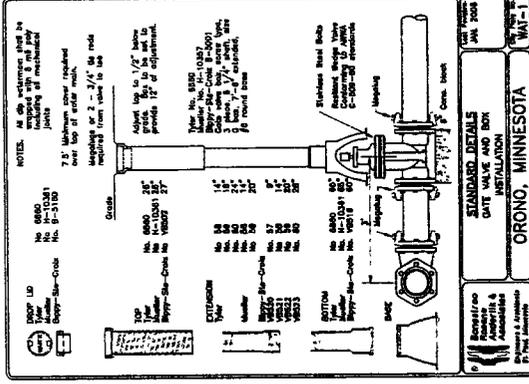


Know what's below.  
 Call before you dig.

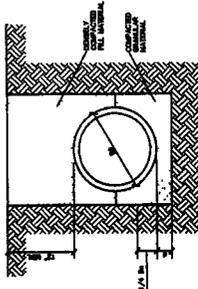




1 HYDRANT & 6\"/>

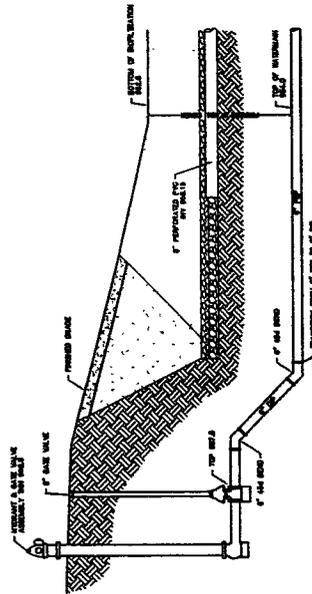


2 GATE VALVE & BOX INSTALLATION

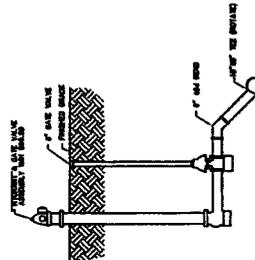


**CLASS B PIPE BEDDING**  
 CLASS B BEDDING SHALL BE CONCRETE FULL BEDDING TO THE TOP OF THE PIPE. THE CURB AND SIDEWALK SHALL BE CONCRETE. THE CURB SHALL BE 1/4\"/>

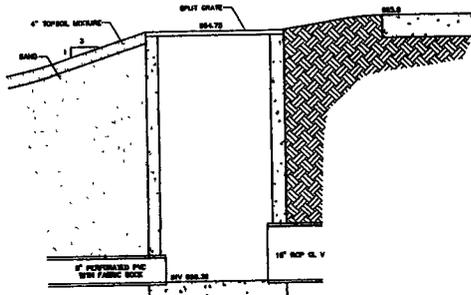
3 CLASS B PIPE BEDDING



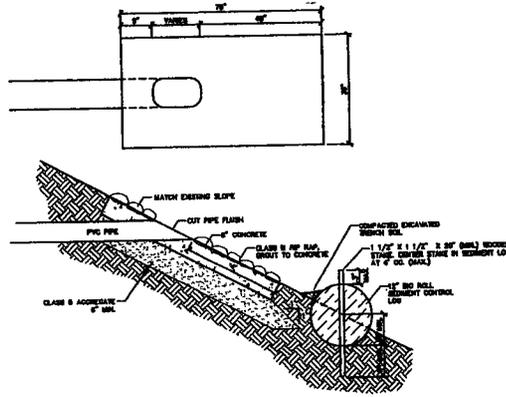
4 WATERMAIN SECTION



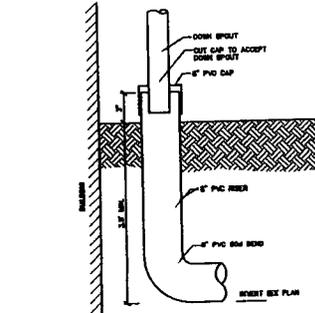
5 WATERMAIN SECTION



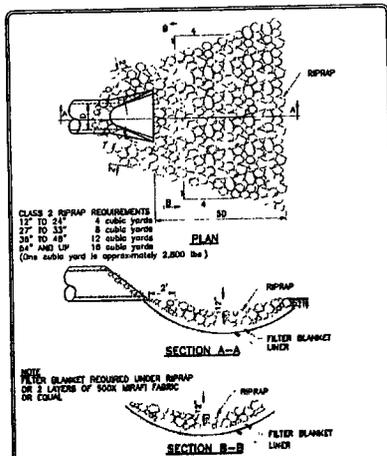
5 OUTLET CONTROL STRUCTURE NO SCALE



3 PVC OUTLET NO SCALE

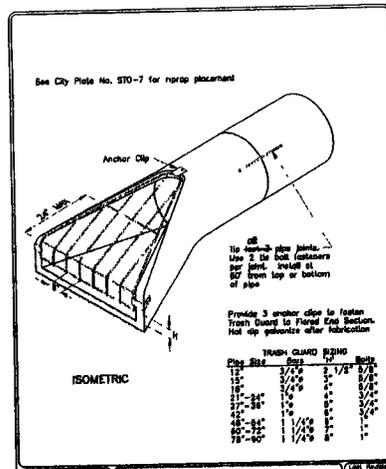


1 DOWN SPOUT CONNECTION NO SCALE



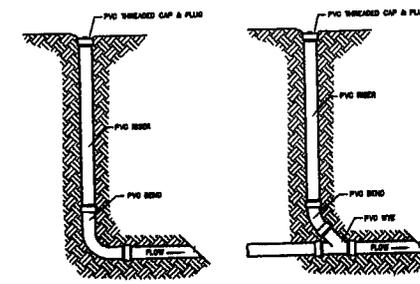
STANDARD DETAILS  
RIPRAP AT OUTLETS  
ORONO, MINNESOTA  
STO-7

6 RIP RAP AT OUTLETS NO SCALE



STANDARD DETAILS  
FLARED END SECTION AND TRASH GUARD  
ORONO, MINNESOTA  
STO-8

4 FLARED END SECTION NO SCALE



1. STAY WITH PIPE ABOVE GROUND LEVEL. INSTALL & SET BACK TO EXISTING PAVEMENT.
2. PROVIDE CLEAN-OUT SPACINGS OF BESS.
3. CAP TO BE BOTTLE NECK FOR ALL CAPS USED IN EXISTENT AND NEW.

2 CLEAN OUT NO SCALE

**ORONO HOUSING, ORONO, MN**  
**PAGE 1 OF 2 LIFT STATION**

**SCOPE OF SUPPLY:**

Furnish and install complete pre-packaged lift station. This plan sheet references model #PS6810TSU as manufactured by Turanton Pump, (phone# 630-785-9600). Other pre-packaged lift stations meeting the design requirements and offering similar features may be proposed to the owner and engineer for approval. The owner or the engineer may approve or reject the alternatives at their scale discretion with or without justification.

The lift station shall incorporate a quick removal system that does not require the use of cranes or jacks to make a seal between the cutter pump and the pre-mounted quick removal discharge base. The cutter pumps shall be guided to the discharge base by the use of two stainless steel guide rails for each pump. The diameter of the guide rails shall be no less than 1.25" and shall extend from the discharge base to the upper guide brackets mounted on the cover. Lifting chain or cable shall be attached to the top of the pump. The other end is to be attached to the cover adjacent the upper guide brackets for easy access and pump removal. The internal discharge plumbing shall be pre-plumbed in schedule 80 PVC and extend, in parallel, 12" beyond the wet well side wall for contractor connection to the basement. Each pump discharge line shall include one non-retaining check valve and one iron union ball valve in a detached valve box. The lift station shall include a duplex control panel shall be surface mountable adjacent to the lift station. The pumps, quick removal system, and level sensors shall be housed in a fiberglass wet well that is 48" in diameter and 102" in length and shall have 11 reinforcing ribs. 1 layer of 3/4 inch marine plywood encapsulated in the bottom and shall incorporate an anti-leakage flange.

**PUMPS:**

2-Turanton model #TOS100C412 shall be supplied. Each pump is capable of delivering 100 GPM at 30 TDH. The pumps shall be designed to pump wastewater, sewage or effluent containing solids without clogging during operation. The pumps shall be designed to meet a maximum power requirement (HP/PSHP) that will not exceed the motor rated horsepower unless otherwise specified.

**MATERIALS OF CONSTRUCTION**

All major parts of the pumping unit(s) including casing, impeller, discharge elbow and motor frame shall be manufactured from gray cast iron, ASTM CLASS 35. Units shall have a lead sulfidate anodic sacrificial coating on suction plate, internal and external surfaces containing the pump(s). All external fasteners shall be galvanized steel. All external fasteners shall be stainless steel. All units shall be furnished with a discharge elbow with 100 R, (10 PIG) 1/2 inch flange and 2" NPT compression flange. Fasteners shall be of the single wedge necked nutting design, equipped with lock pump out vents, tamper capable nuts and shall be only 1/2 inch in diameter and 1/2 inch in length.

**MECHANICAL SEAL**

All units shall be furnished with a dual inside mechanical seal and located completely out of the pumpage, running in a separate of fluid chamber and further protected by an auxiliary set of seal between the bottom seal face and the fluid bearing pump. The oil chamber shall be filled with a clean oil that shall provide lubrication of the top mechanical seal. When in one side of the seal shall be stainless steel. The drive shaft seal shall be stainless steel. Mechanical seals shall be used to provide the leakage of water up to 42.5 PSI (2.9 MPa). Units shall have oil-free carbon seals and shall include upper and lower mechanical seals. Mechanical seal hardware shall be stainless steel, unless otherwise specified. All units shall include a stainless steel pressure relief valve.

**MOTOR**

The pump motor(s) shall be 3 HP, 2.2 kW, 230 V, 60 Hz, 3 Phase and shall be NEMA 1-2 Design Type B equivalent. Motor(s) shall be rated at 1.5 full load amperes (motor) shall have 1.15 service factor and shall be rated for 20 hours per hour. Motor(s) shall be all steel copper wound, class F insulated with built in thermal and over current protection for each winding. Motor shall be 420 ball-bearing steel and shall be supported by two permanently lubricated, high temperature ball bearings, with 6-10 lb rated at full efficiency point of 60,000 hours. The bottom bearing on units 7.5 HP (5.5 kW) and below shall be a single row double ball-bearing, C2 deep groove ball bearing. Units 10 HP (7.5 kW) and larger shall have a double row, double ball-bearing, C2, angular contact type bottom bearing. The top bearing on all units shall be a single row double ball-bearing, C2, angular contact type ball-bearing.

NOTE: 3 PHASE POWER IS NOT AVAILABLE TO THIS SITE. THE CONTROL PANEL SPECIFIED WILL CONVERT POWER SUPPLY TO 3 PHASE.

**POWER CABLE AND CABLE ENTRANCE**

The pump power cable shall be suitable for submersible pump applications and shall be field replaceable utilizing standard submersible pump cable. The cable entrance shall incorporate built in gasket seal and a combination flame-retardant and non-ventilating construction leading with a hinged submersible expansion joint. The cable entrance assembly shall contain an anti-siphoning check to eliminate water leakage into the riser due to capillary siphoning should the power cable be accidentally damaged.

**INVERTING DUPLEX ALTERNATING CONTROL PANEL**

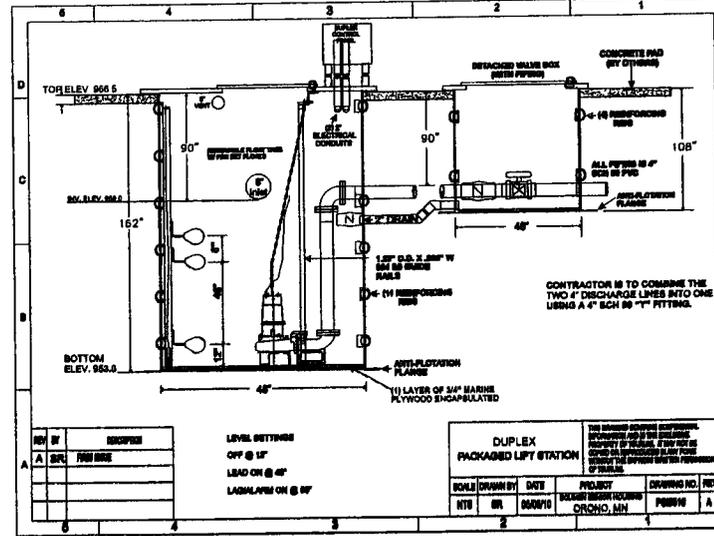
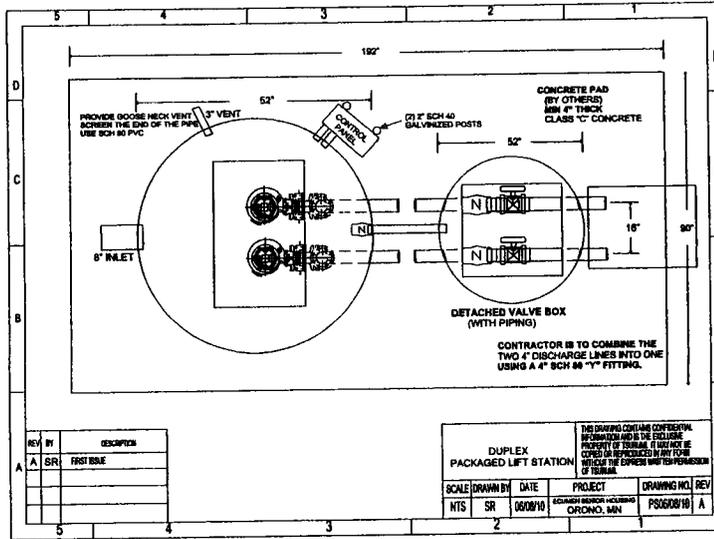
The control panel shall be suitable for submersible pump applications and shall be field replaceable utilizing standard submersible pump cable. An alternating relay shall be provided with lead selector to alternate pumps on each successive cycle of operation. The control shall be suitable for the event that other pump runs the pump direct transfer. NEMA 1-2 Design. A limited only shall be provided to terminate all incoming power, pump, inverter, level sensor and remote alarm wiring. The control panel shall offer a high water alarm light, two mounted for 360 degree visibility. An optional push button shall be provided to silence the audible alarm. A dry, non-potential contact shall be supplied in the main control panel to interface with the owner's computerized security system.

**FIBERGLASS WET WELL AND VALVE BOX:**

The fiberglass wet well shall be suitable direct burial under light installations and shall have an anti-leakage flange and 11 reinforcing ribs. The wet well shall be no less than 48 inches in diameter and be 102" in length. The capacity of the wet well shall be the lowest that is to be 840 gallons (approximate capacity). The fiberglass wet well shall be manufactured using a process that insures that the bottom of the tank will be reinforced all the way to the bottom, eliminating the possibility of any holes or cracks in the wet well in the area of greatest stress concentration. The tank shall have a burst strength of a least 80% of the wet well manufacturer's minimum specified burst strength for steel units on both the interior and exterior surfaces. The minimum wall thickness of the wet well shall not be less than 3/16". The wet well manufacturer shall encapsulate in the bottom of the wet well a steel base plate with stainless steel rivets for fast mounting of the quick removal system. The top rim flange shall be no less than 1/2" thick (1/2" of the wet well (P.O.L.S)). The wet well must be provided with one 1/2" hole for fast installation by the contractor at the manufacturer with the same process as the wet well with an anti-leakage flange and four reinforcing ribs. The valve box shall have an inside diameter of 48" with a depth of 12". The valve box shall include two non-retaining check valves, a two inch double union ball valves. The valve box must be pre-assembled by the system manufacturer.

**ALUMINUM COVER:**

The covers of the wet well and valve box shall be no less than 1/4" thick and shall have a diamond tread surface suitable for foot traffic. The covers shall have a clear access opening for pump removal and valve access as determined by the pump manufacturer. The covers shall be galvanized steel and shall be field replaceable. All fasteners on the cover shall be 304 stainless steel. The covers shall be provided by a ten year limited warranty. These covers shall use locking pins that will not be considered.



**NOTICE TO THE CONTRACTOR**

This lift station and controls will be owner specified, contractor furnished, and delivered to the site. The successful bidder will furnish all other materials and labor to install the lift station and its controls and ensure its proper operation. It is the contractor's responsibility to install the lift station per the plan as indicated and make all connections, plumbing and electrical, in an approved manner as required by this drawing and local codes. The contractor's responsibilities are as follows: receiving the lift station and off loading, excavation and setting, all plumbing connections (inlet, vent, wet well to valve box, four main run thereafter) to the point of connection of receiving mainline or force main, all electrical conduit from the wet well to control panel, provide proper backfill and compaction procedures. The contractor will be required to lower the pumps into place and perform the system start up.

**Receiving / offloading instructions and preparation before setting**

**Receiving the lift station**  
 Inspect the entire shipment for damage before the lift station is taken off the truck. If there is damage, note as specifically as possible including clear photos of damage on the bill of lading as to any damage, then offload. Contact the shipper at once and have the bill of lading with you. Call 800-358-0088 for further instructions.

**Preparing the lift station**

The lift station has been made ready to travel several hundred miles. The main wet well will contain backfill that will be removed before it is set in place. The lift station is to remain horizontal and on the pallet until the dry fit is to be set in place. On that day open the main hatch and remove the control panel, basin fittings, transducer housing and float tank. Remove all lumber bracing, wire ties and dust caps. Check all flange bolts and tighten as necessary. Check all flange bolts in the valve box as well, tighten as necessary.

**Setting the lift station**

The best way to set the wet well is to use two check straps of equal length. Place the straps right under the rim so they will tighten as the wet well is lifted. If the straps are properly positioned the wet well will hang level and secure. If you have experience in this area use your own discretion.

**BASIN INSTALLATION INSTRUCTIONS**

- Excavation Dimensions: Excavation shall be 6" deeper than the depth of the basin, below finish grade and done in such a manner as to preserve the undisturbed side of bearing soils at the bottom. Diameter of excavation shall be sufficient to allow for necessary external pipe connections with a minimum 12" greater than the basin diameter.
- Backfill Materials:
  - The backfill materials shall be in fact, free flowing granular soil such as clean sand or gravel (1/4" mesh or finer).
  - Acceptable backfill includes "stone dust" from rock crushing operation provided it possesses all the characteristics of free flowing sand and contains less than 20% by weight passing the No. 200 mesh sieve. Soil fines must be non-plastic.
  - Silt, clay, organic soil, granulated cinder, slag and other corrosive material shall not be used. Backfill shall be free of organic material, loam, trash, snow, ice, stones, rubble, etc.
- Pipe Connections: Make necessary pipe connection in approved manner. Note: connection may be threaded, casted lead joints or other specified approved method.

NOTE: BACKFILL SHOULD BE DONE AS SOON AS THE WET WELL IS SET AND LEVEL.

- Backfill as follows:
  - If the hole is flooded, the water level shall be pumped down to a maximum depth of 3 inches before preparing the bed and placing the basin. Water level shall be maintained below bottom of the basin until the excavation is backfilled and until there is adequate safety against uplift.
  - The first layer of backfill is the base for the basin and shall be at least 6" thick.
  - Place the basin on the bed and after sloping and leveling, push additional fill under and around the basin and compact by tamping to a uniform depth of 12" around the basin. This assures that the established grade and level of the basin will be maintained during remainder of the backfilling operation.
  - Backfill shall be continued in one foot layers with specified sand backfill uniformly distributed around the basin and compacted around the basin.
  - Concrete encasement may be used in lieu of backfill as described above, if the whole excavation does not exceed 12" in diameter larger than the basin to be installed.
- Cover: The cover shall be bolted in place with an approved gasket material to effect a gas-tight seal.

**Instructions to remove a reinforcing rib to install the Inlet**

This procedure is required only if the gravity inlet lands on a rib.  
 Measure the length of the rib to be removed. Using a saw cut out the rib lengthwise on the top and bottom of the rib. Keep in mind that the rib is hollow. Make the cut out between the top and bottom of the rib. Note: take care not to damage the underlying wall of the wet well. Remove the cut rib and the foam underneath. Use a circular saw to reduce the ridge left by the removal of the rib. What should remain is the uniform wall thickness of the wet well where the rib used to be installed. Note: It is to remove a rib more rib than to just fit the inlet fitting. Six inches on each side of the inlet is fine.

**POPE**  
 Pump Association Inc.  
 2500 West 10th Street  
 St. Paul, MN 55108  
 Tel: 612-781-1234  
 Fax: 612-781-1235

**BRUNNEN**  
 Development Consulting  
 P.O. BOX 87  
 LONG LAKE, MN 55810

**ORONO SENIOR HOUSING**  
 ORONO, MN

**DEVELOPMENT STAGE APPLICATION**

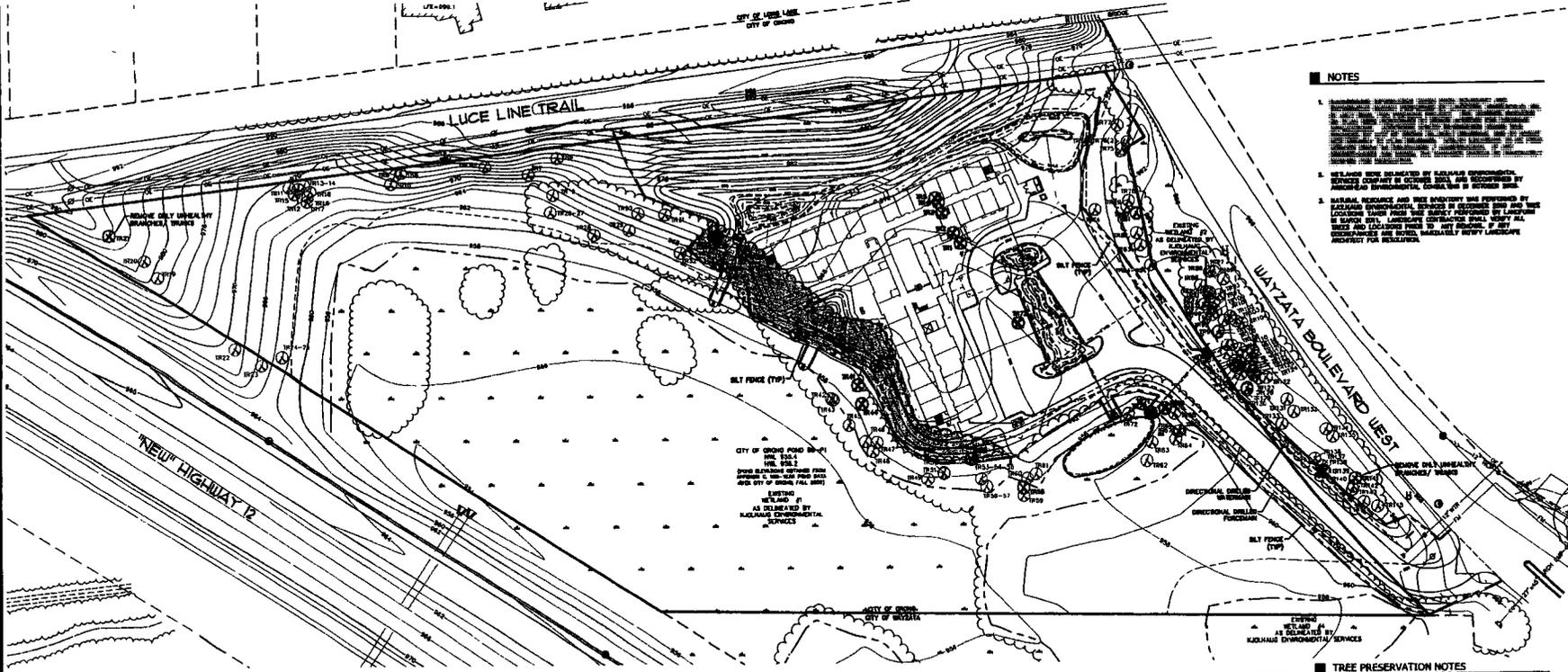
**UTILITY DETAILS**

City of Orono	04-14-11
CITY ENGINEER	05-05-11
CITY SUPERVISOR	05-05-11
DEVELOPMENT STAGE APPLICATION	05-17-11

DATE: 05/17/11  
 TIME: 10:00 AM  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 PROJECT: [Signature]  
 SHEET: 25 OF 25

**C4.5**





**POPE**

Pope Associates Inc.  
100 Main Street  
Orono, MN 55857  
763-835-1111

**ERLUS-ANDERSON, COMPANY**

**EBENEZER**

**RHO**  
Developments Consulting  
P.O. BOX 80  
LONG LAKE, MN 55834  
763-835-1111

**ORONO SENIOR HOUSING**  
ORONO, MN

**DEVELOPMENT STAGE APPLICATION**

**TREE PRESERVATION SCHEDULE**

REMOVE	TREE ID	COMMON NAME	SCIENTIFIC NAME	NON NATIVE	INVASIVE	NOTES
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**SWPP PLAN/APPENDIX**

THE STATE WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED TO ADDRESS THE POLLUTION PREVENTION MANAGEMENT MEASURES REQUIRED AND MAINTENANCE REQUIREMENTS OF SPILL PREVENTION AND RESPONSE PLAN. A SWPPP IS REQUIRED FOR ALL OPERATIONS OF A FACILITY THAT STORES, HANDLES, TRANSPORTS, OR USES OILS, FUELS, OR FLAMMABLE LIQUIDS. THIS SWPPP INCLUDES A COMBINATION OF MEASURES, ATTACHED FORMS, AND PLAN SHEETS THAT ADDRESS THE TEMPORARY AND PERMANENT STORE WATER MANAGEMENT PLAN FOR THE SITE.

**CONTACT**

ENGINEER AND DEVELOPMENT CONSULTING, INC.  
CONTRACT SERIAL NUMBER  
PROJECT: 03-001-001  
DATE: 03/17/2011

THE GENERAL CONTRACTOR (OPERATOR) SHALL OBTAIN NEAR BY CONTACT INFORMATION TO THE SWPPP AFTER THE CONTRACT FOR THE PROJECT IS AWARDED.

CONTRACTOR: NEAR ANDERSON CONSULTING  
PHONE: 313-357-7272  
EMAIL: NEAR@NEARANDERSON.COM

**GENERAL PROJECT INFORMATION**

PROJECT NAME: ORONO SENIOR HOUSING  
PROJECT LOCATION: 1000 ORONO AVENUE  
CONTRACTOR: NEAR ANDERSON CONSULTING  
CONSTRUCTION AND BIDDING DATE: 2011  
CONSTRUCTION PERIOD: APPROXIMATELY 3.0 ACRES SITE FOR THE DEVELOPMENT OF THE SENIOR HOUSING PROJECT.

**AGREEMENTS TO THE SWPPP**

THE SWPPP WILL BE APPROVED BY NEAR ANDERSON AS REQUIRED BY PROVISIONS OF THE PERMIT AGREEMENTS WILL BE APPROVED BY BOTH THE OWNER AND CONTRACTOR (OPERATOR) AND WILL BE ATTACHED TO THE SWPPP AS AN ADDITIONAL SHEET. THE SWPPP AND AGREEMENTS WILL BE KEPT ON SITE BY THE CONTRACTOR (OPERATOR) THROUGH CONSTRUCTION ACTIVITY AT ALL TIMES.

**GENERAL SWPPP REQUIREMENTS**

THE CONTRACTOR (OPERATOR) SHALL PROVIDE A RESPONSIBLE AND EXPERIENCED PERSONNEL TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION AND MAINTENANCE OF THE STORAGE AND REMEDIATION CONTROL, SPILL PREVENTION AND RESPONSE PLAN.

NEAR ANDERSON CONSULTING SHALL BE RESPONSIBLE FOR THE PROPER TERMINATION AND/OR REMEDIATION OF THE PERMIT.

THE OWNER SHALL BE RESPONSIBLE FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORE WATER MANAGEMENT SYSTEMS AS DESCRIBED IN A MAINTENANCE AGREEMENT WITH THE VENDOR CONTRACT.

UNLESS SPECIFICALLY STATED THE OWNER SHALL HAVE NO RESPONSIBILITY FOR ANY SWPPP ACTIVITIES DURING OR AFTER CONSTRUCTION.

**TRAINING REQUIREMENTS**

PERSONNEL OPERATING THE SWPPP SYSTEMS, STORAGE, FEEDBACK AND DEVELOPMENT CONSULTING, INC.

THE CONTRACTOR (OPERATOR) SHALL PROVIDE AT LEAST ONE TRAINED PERSONNEL TO REVIEW THIS DOCUMENT, APPLY FOR NECESSARY PERMITS, OBTAIN THE IMPLEMENTATION OF THE SWPPP AND TO INSTALL, INSPECT, MAINTAIN AND REPAIR SWPPP.

TRAINING MUST BE IN COMPLIANCE WITH THE SPILL PREVENTION PREVENTION REQUIREMENTS. TRAINING DOCUMENTATION MUST BE KEPT ON-SITE WITH THE SWPPP AND THE TRAINED PERSONNEL MUST BE AVAILABLE ON-SITE WITHIN 72 HOURS.

**MAINTENANCE REQUIREMENTS**

CONTRACTOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS. THE CONTRACTOR MAY MAKE ADJUSTMENTS TO THE REQUIREMENTS TO ADDRESS ACTUAL FIELD CONDITIONS.

- 1. PERFORM REGULAR MAINTENANCE TO PREVENT SWPPP SYSTEMS FROM FAILING.
- 2. MAINTAIN SWPPP SYSTEMS (EQUIPMENT).
- 3. MAINTAIN SWPPP SYSTEMS (EQUIPMENT).
- 4. MAINTAIN SWPPP SYSTEMS (EQUIPMENT).
- 5. MAINTAIN SWPPP SYSTEMS (EQUIPMENT).
- 6. MAINTAIN SWPPP SYSTEMS (EQUIPMENT).
- 7. MAINTAIN SWPPP SYSTEMS (EQUIPMENT).
- 8. MAINTAIN SWPPP SYSTEMS (EQUIPMENT).
- 9. MAINTAIN SWPPP SYSTEMS (EQUIPMENT).
- 10. MAINTAIN SWPPP SYSTEMS (EQUIPMENT).

OTHER OPERATIONS ARE CONSIDERED AND THE SITE IS STABILIZED BEFORE ANY TEMPORARY STORAGE AND REMEDIATION CONTROL, STORAGE AND REMEDIATION SYSTEMS ARE INSTALLED BY NEAR ANDERSON.

**INSPECTION AND MAINTENANCE**

ALL INSPECTIONS, MAINTENANCE, REPAIRS, REPLACEMENTS AND REMOVAL ARE TO BE CONSIDERED INCIDENTAL TO THE SWPPP AND NOT TO BE CONSIDERED INCIDENTAL TO THE SWPPP.

THE CONTRACTOR (OPERATOR) IS RESPONSIBLE FOR COMPLETING REQUIRED MAINTENANCE AND OPERATION OF STORAGE AND REMEDIATION CONTROL SYSTEMS AND SHALL ADDRESS TO NEAR ANDERSON TO ENSURE COMPLIANCE WITH THE PERMIT REQUIREMENTS.

THE CONTRACTOR (OPERATOR) SHALL CONDUCT THE FOLLOWING INSPECTIONS AND MAINTENANCE ON THE SWPPP SYSTEMS AND REPORT TO NEAR ANDERSON WITHIN 72 HOURS OF COMPLETION.

THE CONTRACTOR (OPERATOR) SHALL KEEP A MAINTENANCE/OPERATION/OBSERVATION REPORT TO BE MAINTAINED AT THE SITE AND SHALL INCLUDE THE FOLLOWING:

- 1. DATE OF INSPECTION
- 2. NAME OF PERSON CONDUCTING INSPECTION
- 3. LOCATION OF INSPECTION
- 4. TYPE OF INSPECTION
- 5. RESULTS OF INSPECTION
- 6. ACTION TAKEN TO CORRECT DEFICIENCIES
- 7. DATE OF RE-INSPECTION
- 8. SIGNATURE OF PERSON CONDUCTING INSPECTION
- 9. SIGNATURE OF PERSON APPROVING INSPECTION
- 10. SIGNATURE OF PERSON MAINTAINING SWPPP SYSTEMS

THE CONTRACTOR (OPERATOR) SHALL SUBMIT A COPY OF THE WRITTEN REPORTS AND AGREEMENTS TO NEAR ANDERSON.

THE CONTRACTOR (OPERATOR) SHALL KEEP THE SWPPP, ALL OPERATIONAL REPORTS AND AGREEMENTS ON-SITE. THE CONTRACTOR (OPERATOR) SHALL MAINTAIN A SWPPP LOGBOOK TO KEEP THE RECORDS OF SWPPP OPERATION AND MAINTENANCE.

ALL STORAGE PREVENTION AND REMEDIATION CONTROL, SWPPP MUST BE REVIEWED BY NEAR ANDERSON CONSULTING, INC. (NEAR ANDERSON) AND APPROVED BY NEAR ANDERSON. SWPPP MUST BE REVIEWED, REPLACED OR SUPPLEMENTED BY NEAR ANDERSON CONSULTING, INC. (NEAR ANDERSON) AS REQUIRED BY NEAR ANDERSON. SWPPP MUST BE REVIEWED AND APPROVED BY NEAR ANDERSON CONSULTING, INC. (NEAR ANDERSON) AS REQUIRED BY NEAR ANDERSON.

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**RELATED REGULATIONS AND STANDARDS**

ENVIRONMENTAL, ARCHITECTURAL, LOCAL, STATE, AND/OR FEDERAL REGULATIONS/PERMITS  
NEAR ANDERSON CONSULTING, INC. (NEAR ANDERSON) SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. NEAR ANDERSON CONSULTING, INC. (NEAR ANDERSON) SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

**COLLECTION PREVENTION MANAGEMENT MEASURES**

THE CONTRACTOR (OPERATOR) SHALL BE RESPONSIBLE FOR ALL POLLUTION PREVENTION MANAGEMENT MEASURES. THE CONTRACTOR (OPERATOR) SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

ALL POLLUTION PREVENTION MANAGEMENT MEASURES SHALL BE IN COMPLIANCE WITH THE PERMIT REQUIREMENTS AND THE SWPPP.

THE CONTRACTOR (OPERATOR) IS RESPONSIBLE FOR THE PROPER TERMINATION AND/OR REMEDIATION OF THE PERMIT.

UNLESS SPECIFICALLY STATED THE OWNER SHALL HAVE NO RESPONSIBILITY FOR ANY SWPPP ACTIVITIES DURING OR AFTER CONSTRUCTION.

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**TYPE OF STORE WATER MANAGEMENT SYSTEM**

PERMANENT STORAGE PREVENTION MEASURES ARE NOT REQUIRED BY THE SPILL PREVENTION PREVENTION, RESPONSE TO REMEDIATION, MAINTENANCE SYSTEM.

**PERMANENT STORAGE PREVENTION MEASURES**

THE CONTRACTOR (OPERATOR) IS RESPONSIBLE FOR ALL STORAGE PREVENTION MEASURES FOR THE PROJECT STORAGE PREVENTION MEASURES SHALL BE IN COMPLIANCE WITH THE PERMIT REQUIREMENTS AND THE SWPPP.

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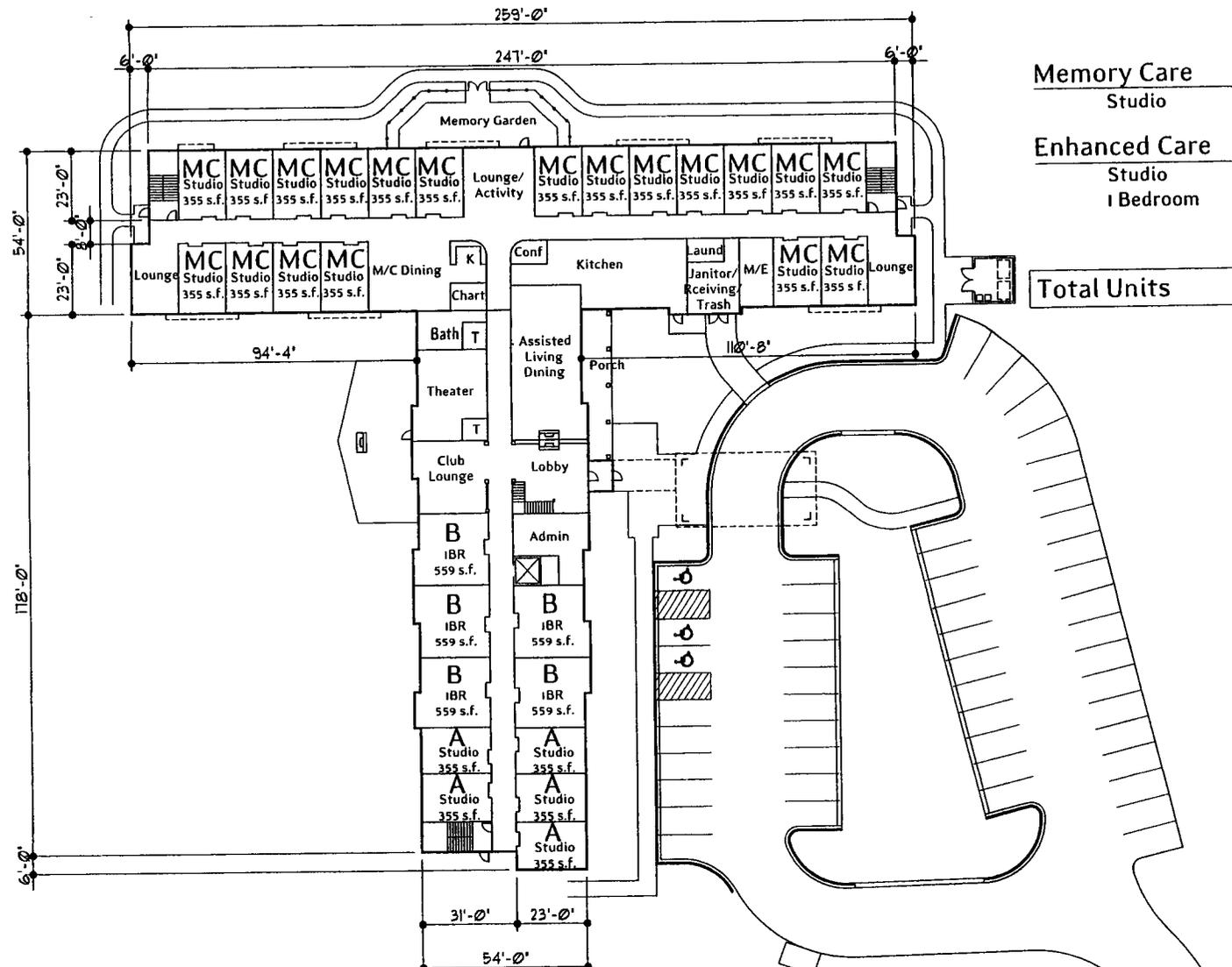
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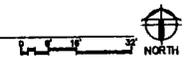
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POPE  
POPE ASSOCIATES, INC.  
1000 ORONO AVENUE  
OROHO, MN 55050  
TEL: 507-231-1111  
FAX: 507-231-1111  
NEAR ANDERSON COMPANIES  
EBENEZER  
RHO  
Development Consulting  
PO BOX 37  
LOWELL, MN 55050  
OROHO SENIOR HOUSING  
OROHO, MN  
DEVELOPMENT STAGE APPLICATION  
SWPPP PLAN  
JOB #1111  
CITY SUBMITTAL ISSUE 05-16-11  
CITY ENGINEERS COMMENTS 05-24-11  
WATERED IN SUBMITTAL 05-24-11  
DEVELOPMENT STAGE 05-17-11  
APPLICATION  
I HEREBY CERTIFY THAT THE PLAN AND SPECIFICATIONS ARE IN ACCORDANCE WITH THE PERMIT REQUIREMENTS AND THE SWPPP.  
DATE: 05/17/2011  
SIGNATURE: [Signature]  
TITLE: [Title]  
SCALE: AS SHOWN  
SHEET: 020  
SWPPP1.1



<b>Memory Care</b>		
Studio	355 s.f.	19 Units
<b>Enhanced Care</b>		
Studio	355 s.f.	5 Units
1 Bedroom	556 s.f.	5 Units
<b>Total Units</b>	<b>62 Units</b>	<b>10 Units</b>

1 FIRST FLOOR PLAN 23,804 GSF  
 A2.1 1/16"=1'-0"



**POPE**  
 POPE ASSOCIATES INC.  
 100 E. Gregory Street, Suite 200  
 St. Paul, MN 55102-1000  
 PH: 651-444-2200  
 FAX: 651-444-2201

BRADY ANDERSON, COMPARTES

E BENEZER

ORONO SENIOR HOUSING ORONO, MN  
 CITY SUBMITTAL

FIRST FLOOR PLAN

Drawn by	
CITY SUBMITTAL NO.	01-16-11
CITY SUBMITTAL NO.	03-17-11

Worksheet No.	41200-19198
Drawn by	JTZ
Checked by	JTZ

SHEET  
**A2.1**

**SECOND  
 FLOOR PLAN**

Scale of Building: \_\_\_\_\_  
 CITY SUBMITTAL NUMBER: 05-10-11  
 CITY SUBMITTAL REFERENCE: 05-11-11

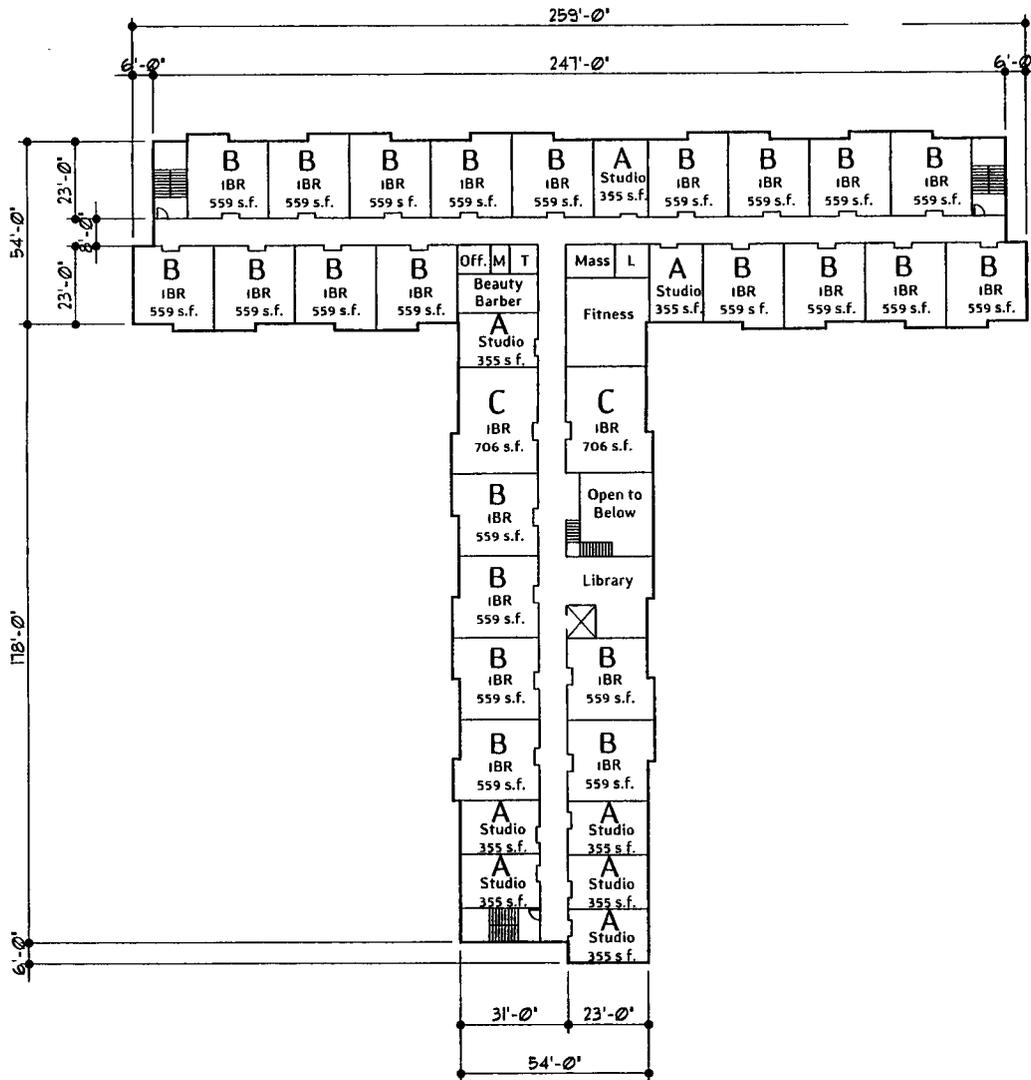
Submitter No. 03202-12108  
 Date No. 01/11  
 Drawn by: DM

SHEET

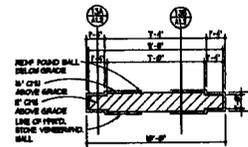
**A2.2**

**Assisted Living**

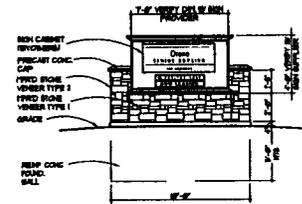
Studio	355 s.f.	8 Units
1 Bedroom	559 s.f.	23 Units
1 Bedroom+	706 s.f.	2 Units
		<b>33 Units</b>



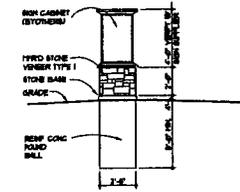
**2**  
 A2.2 **SECOND FLOOR PLAN** 24,087 GSF  
 1/16"=1'-0"



**PLAN VIEW**

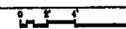


**ELEVATION "A"**



**ELEVATION "B"**

**1**  
 A2.2 **MONUMENT SIGN ELEVATIONS**  
 1/4"=1'-0"

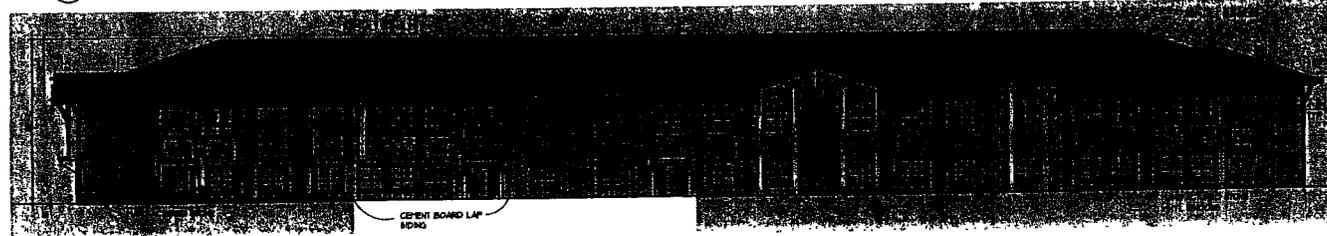






1 EAST ELEVATION  
AS1 3/32"=1'-0"

0 5' 10' 21'



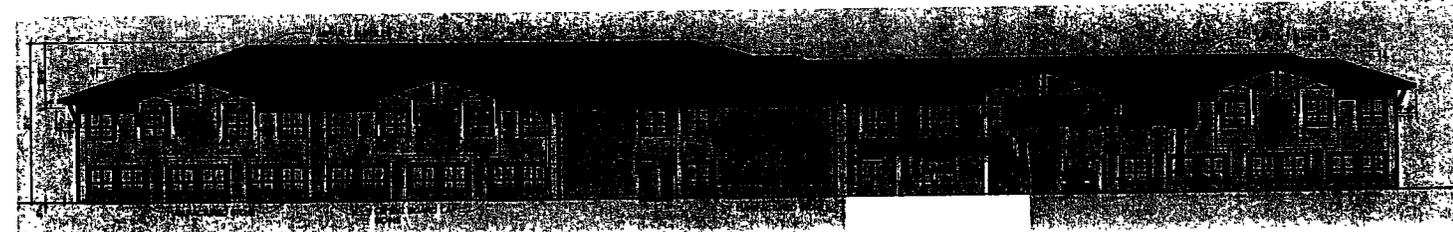
2 WEST ELEVATION  
AS1 3/32"=1'-0"

0 5' 10' 21'



3 NORTH ELEVATION  
AS1 3/32"=1'-0"

0 5' 10' 21'

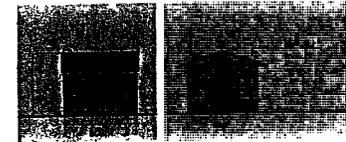


4 SOUTH ELEVATION  
AS1 3/32"=1'-0"

0 5' 10' 21'

**BUILDING HEIGHT CALCULATION**  
Orono standards for a building on a slab foundation

START WITH	The distance between the slab and the highest roof peak, the top of the cornice of a flat roof, the deck line of a mansard roof, or the uppermost point on a round or other arch-type roof	30'-0"
SUBTRACT	Half the distance between the highest window and highest roof peak of the pitched roof	6'-0"
ADD	The distance between the slab and the highest existing grade with the foundation.	0"
EQUALS	Defined building height.	24'-0"



5 STORAGE BLDG ELEVATIONS  
AS1 3/32"=1'-0"

**POPE**

Pope ASSOCIATES, Inc.  
1000 E. CENTER PARK DRIVE  
ST. PAUL, MN 55108-0018  
TEL: 650-840-0000  
FAX: 650-840-0000

KLAUS ANDERSON, COMPANIES

EIBENEZER

ORONO  
SENIOR  
HOUSING  
ORONO, MN

CITY  
SUBMITTAL

**EXTERIOR  
ELEVATIONS**

Issue and Submitter:  
CITY SUBMITTAL REVIEW 01-16-11  
CITY SUBMITTAL RE-NOUVEAU 05-17-11

Drawn by: 11-2002-10108  
Date by: 07/07  
Checked by: SM

SHEET  
**A3.1**