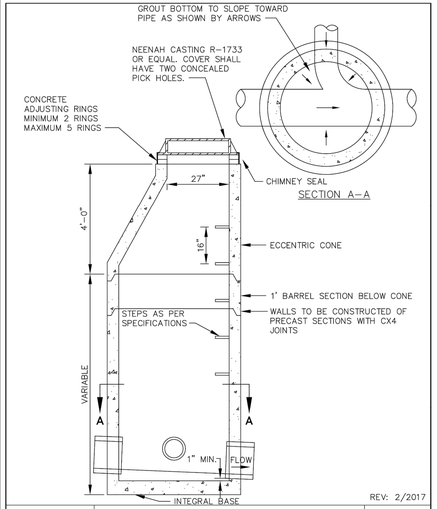
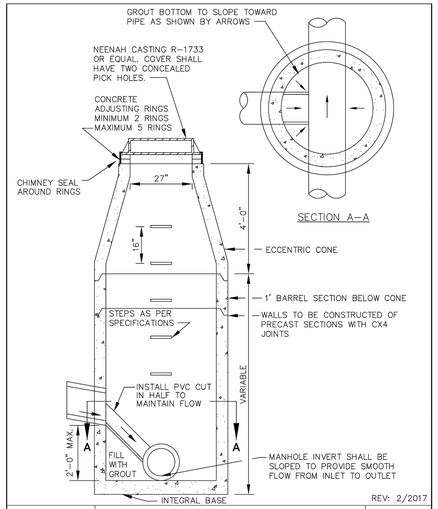


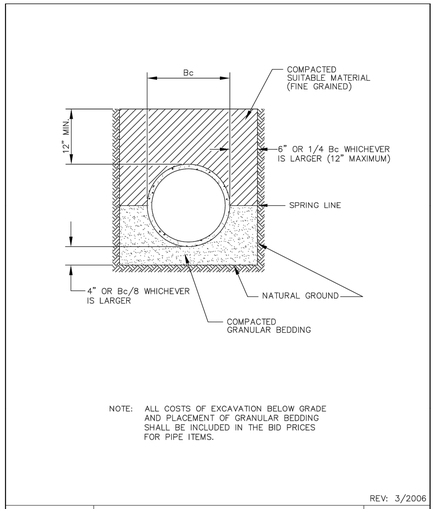

REV: 2/2017

| | | |
|---|---|---|
| City of Elk River | STANDARD MANHOLE | STANDARD PLATE NO. 4000 |




REV: 2/2017

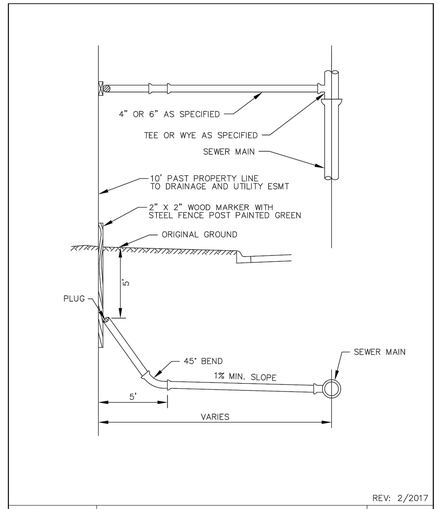
| | | |
|---|---|---|
| City of Elk River | INSIDE DROP MANHOLE (TWO FEET OR LESS) | STANDARD PLATE NO. 4002 |




NOTE: ALL COSTS OF EXCAVATION BELOW GRADE AND PLACEMENT OF GRANULAR BEDDING SHALL BE INCLUDED IN THE BID PRICES FOR PIPE ITEMS.

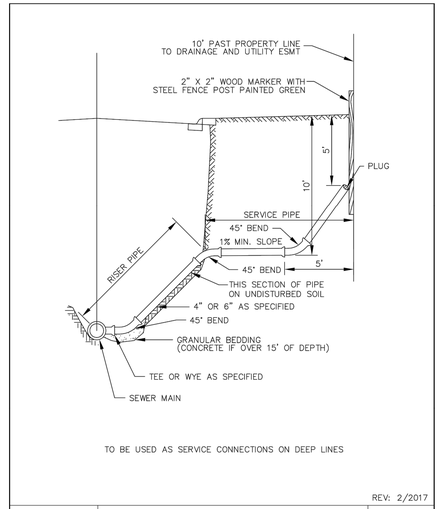
REV: 3/2006

| | | |
|---|---|---|
| City of Elk River | CLASS B PIPE BEDDING | STANDARD PLATE NO. 4006 |




REV: 2/2017

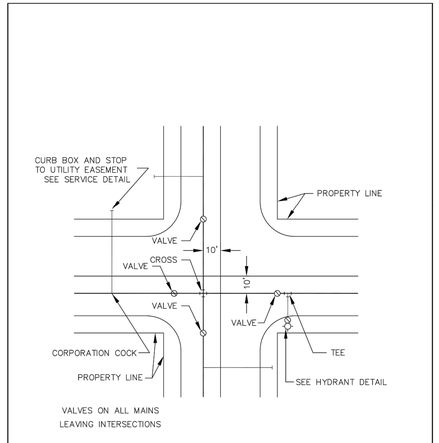
| | | |
|---|---|---|
| City of Elk River | TYPICAL HOUSE SERVICE | STANDARD PLATE NO. 4007 |




TO BE USED AS SERVICE CONNECTIONS ON DEEP LINES

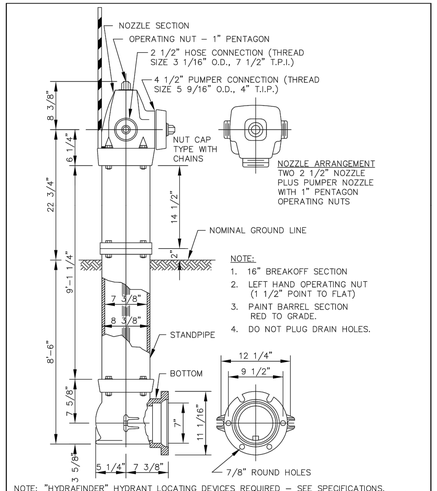
REV: 2/2017

| | | |
|---|---|---|
| City of Elk River | SERVICE RISER SECTION | STANDARD PLATE NO. 4008 |




REV: 2/2017

| | | |
|---|---|---|
| City of Elk River | TYPICAL WATER LAYOUT | STANDARD PLATE NO. 3400 |

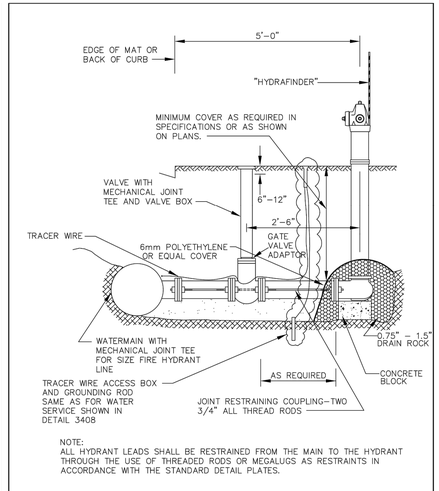



NOTE:
1. 16" BREAKOFF SECTION
2. LEFT HAND OPERATING NUT (1 1/2" POINT TO FLAT)
3. PAINT BARREL SECTION RED TO GRADE.
4. DO NOT PLUG DRAIN HOLES.

NOTE: "HYDRAFINDER" HYDRANT LOCATING DEVICES REQUIRED - SEE SPECIFICATIONS.

REV: 3/2006

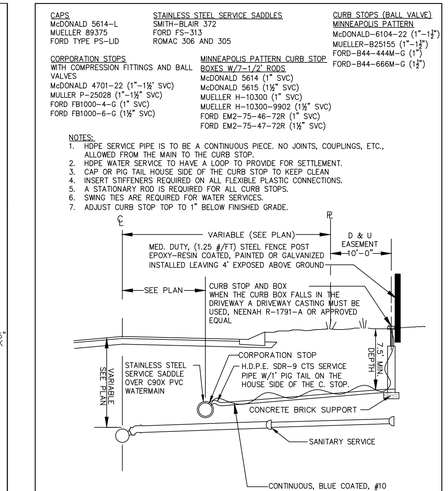
| | | |
|---|---|---|
| City of Elk River | PACER HYDRANT DETAIL | STANDARD PLATE NO. 3401 |




NOTE:
ALL HYDRANT LEADS SHALL BE RESTRAINED FROM THE MAIN TO THE HYDRANT THROUGH THE USE OF THREADED RODS OR MEGALUGS AS RESTRAINTS IN ACCORDANCE WITH THE STANDARD DETAIL PLATES.

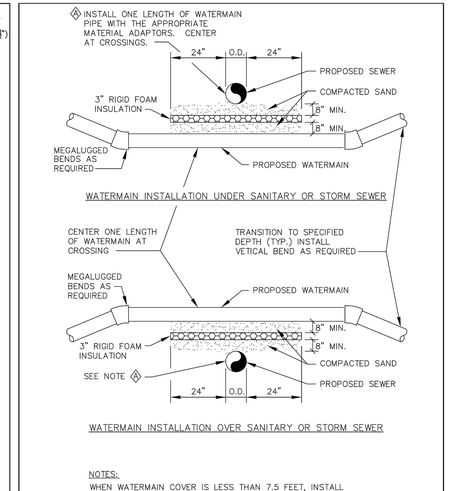
REV: 2/2017

| | | |
|---|---|---|
| City of Elk River | HYDRANT RESTRAINT DETAIL | STANDARD PLATE NO. 3402 |




NOTES:
1. HDPE SERVICE PIPE IS TO BE A CONTINUOUS PIECE. NO JOINTS, COUPLINGS, ETC., ALLOWED FROM THE MAIN TO THE CURB STOP.
2. HDPE WATER SERVICE TO HAVE A LOOP TO PROVIDE FOR SETTLEMENT.
3. CAP OR PIG TAIL HOUSE SIDE OF THE CURB STOP TO KEEP CLEAN
4. INSERT STIFFENERS REQUIRED ON ALL FLEXIBLE PLASTIC CONNECTIONS.
5. A STATIONARY ROD IS REQUIRED FOR ALL CURB STOPS.
6. SWING TIES ARE REQUIRED FOR WATER SERVICES.
7. ADJUST CURB STOP TOP TO 1" BELOW FINISHED GRADE.

| | | |
|---|---|---|
| | STANDARD DETAILS SEWER AND WATER SERVICE CONNECTION | PUBLISHED 3-16 CITY PL. NO. W-1 REVISED 3-13 |




WATERMAIN INSTALLATION OVER SANITARY OR STORM SEWER

NOTES:
WHEN WATERMAIN COVER IS LESS THAN 7.5 FEET, INSTALL WATERMAIN UNDER SANITARY SEWER.

REV: 2/2017

| | | |
|---|---|---|
| City of Elk River | WATERMAIN CROSSING | STANDARD PLATE NO. 3404 |


Sambatek
www.sambatek.com
12800 Whitewater Drive, Suite 300
Minnetonka, MN 55343
763.476.6010 telephone
763.476.8532 facsimile
Engineering | Surveying | Planning | Environmental


**Client**
PAXMAR, LLC.

3495 NORTHDALE BLVD. NW
SUITE 210
COON RAPIDS, MN 55448

**Project**
MISKE MEADOWS FOURTH ADDITION

**Location**
ELK RIVER, MN

## Certification

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.

Eric T. Luth
Registration No. 50475 Date: 03/28/2018

If applicable, contact us for a wet signed copy of this plan which is available upon request at Sambatek's, Minnetonka, MN office.

## Summary

Designed: NRH Drawn: NRH
Approved: ETL Initial Issue: 03/15/18
Phase: CONSTRUCTION DOCUMENTS

## Revision History

| No. | Date | By | Submittal / Revision |
|---|---|---|---|
| | 03/28/18 | MMQ | CONSTRUCTION DOCS |
| A | 04/18/18 | ETL | REVISE EAST TRAIL GRADES |

**Sheet Title**
CONSTRUCTION DETAILS

**Sheet No.** C9.01 **Revision** A

**Project No.** 20460.05