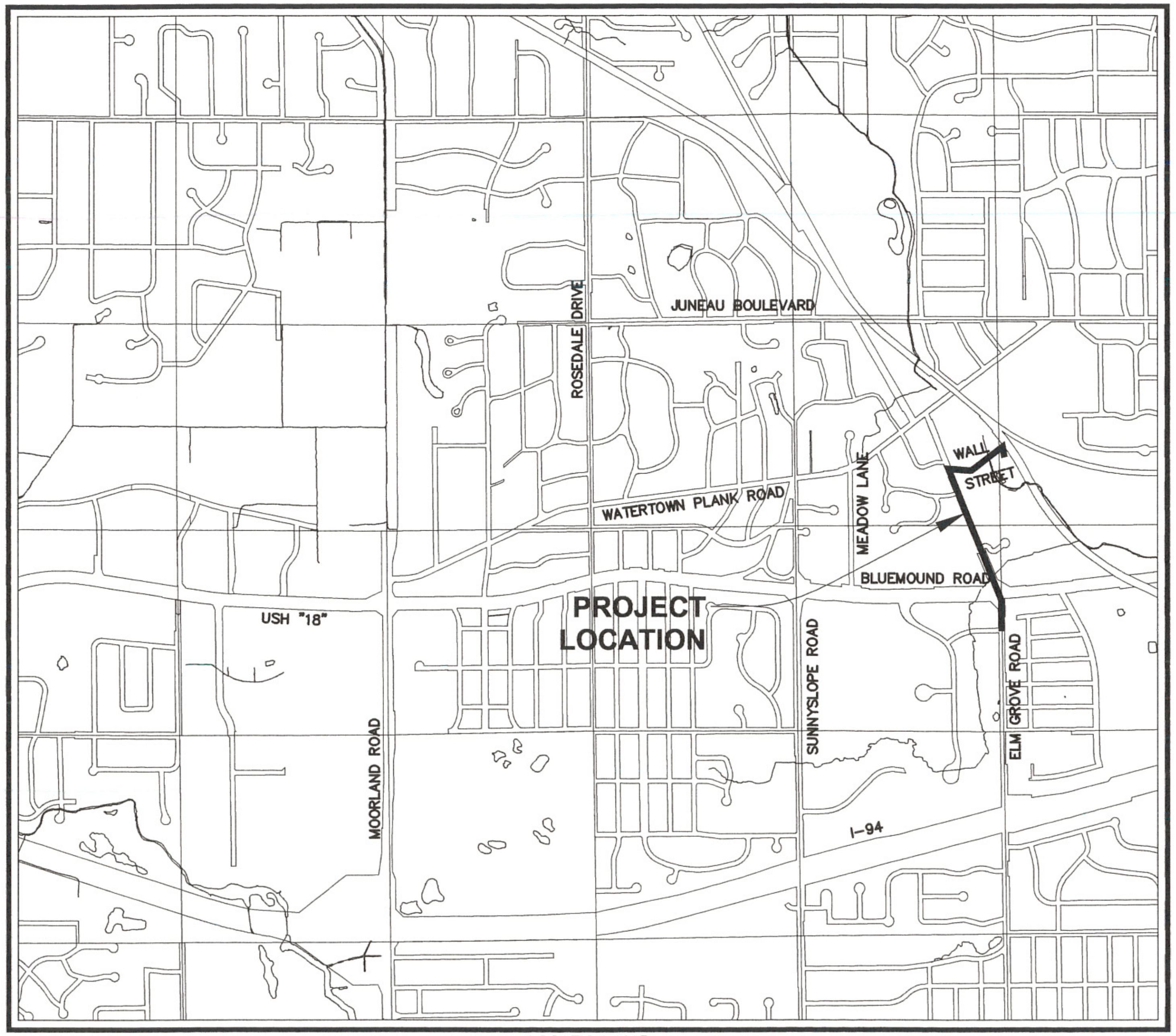
VILLAGE OF ELM GROVE

ELM GROVE ROAD AND WALL STREET WATER MAIN EXTENSION

VILLAGE OF ELM GROVE
WAUKESHA COUNTY, WISCONSIN



LOCATION MAP

TOWN	RANGE	SECTION (s)
7N	20E	25 SW, NW, NE

N W E S

0 500 1000 2000
SCALE IN FEET

SHEET INDEX

WISCONSIN
ANTHONY
D
PETERSEN
E-34698
WAUKESHA
WI
PROFESSIONAL ENGINEER

3-20-2013

LEGEND - CIVIL ENGINEERING DRAWINGS

- GENERIC MANHOLE
- GENERIC VENT
- SEWER MANHOLE
- CLEAN OUT
- SEPTIC SYSTEM
- SEPTIC TANK COVER
- SEPTIC VENT
- MONITORING WELL
- WATER VALVE
- HYDRANT
- YARD HYDRANT
- WATER VALVE MANHOLE
- WATER CURB STOP
- WELL
- SPRINKLER HEAD
- STORM CATCH BASIN
- STORM INLET
- GAS MANHOLE
- GAS VALVE
- GAS METER
- GAS VENT
- GAS VALVE TEST
- GAS CURB STOP
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- TELEPHONE BOX
- TELEPHONE MANHOLE
- CABLE BOX
- UTILITY POLE
- GUY WIRE
- LIGHT POLE
- YARD LIGHT
- TRAFFIC SIGNAL
- PULL BOX

- SANITARY SEWER
- WATER MAIN
- STORM SEWER
- UNDERGROUND GAS MAIN
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND FIBER OPTIC
- UNDERGROUND TV CABLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL SHOULDER
- EDGE OF CONCRETE
- DITCH
- TOE OF SLOPE
- TOP OF BANK
- FENCE
- GUARD RAIL
- CULVERT (SIZE & TYPE NOTED)
- RAILROAD TRACKS
- EDGE OF TREES & BRUSH
- FLAG POLE
- MAIL BOX
- POST
- DELINEATOR POST
- MARKER POST
- SIGN
- PILING
- AIR CONDITIONER
- RAILROAD SIGNAL FLASHER
- RAILROAD SIGNAL BOX
- RAILROAD SPIKE
- STUMP
- DECIDUOUS TREE
- DECIDUOUS MULTIPLE TRUNK TREE
- CONIFEROUS TREE
- CONIFEROUS MULTIPLE TRUNK TREE

- PROPOSED SILT FENCE
- PROPOSED SANITARY SEWER (PLAN VIEW)
- PROPOSED STORM SEWER (PLAN VIEW)
- PROPOSED WATER MAIN
- PROPOSED SLOPE INTERCEPT
- PROPOSED DETECTABLE WARNING FIELD
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY RISER
- PROPOSED WATER VALVE
- PROPOSED HYDRANT
- PROPOSED YARD HYDRANT
- PROPOSED WATER VALVE MANHOLE
- PROPOSED WATER MAIN REDUCER
- PROPOSED WATER MAIN OFFSET
- PROPOSED WATER MAIN PLUG
- PROPOSED WATER MAIN PLUG W/AIR RELEASE
- PROPOSED WATER MAIN CROSS
- PROPOSED WATER MAIN TEE
- PROPOSED WATER MAIN BEND (ANGLE NOTED)
- PROPOSED LOCATOR BOX
- PROPOSED STORM INLET/CATCH BASIN
- PROPOSED STORM MANHOLE
- PROPOSED DITCH CHECK
- PROPOSED INLET PROTECTION
- CONTROL POINT
- IRON PIPE
- IRON ROD
- SECTION CORNER
- MONUMENT
- TEST BORING
- PK NAIL
- DECORATIVE ROCK
- REVISION LABEL
- WETLANDS
- WATER ELEVATION

BID SET

CHECKED BY: KRW

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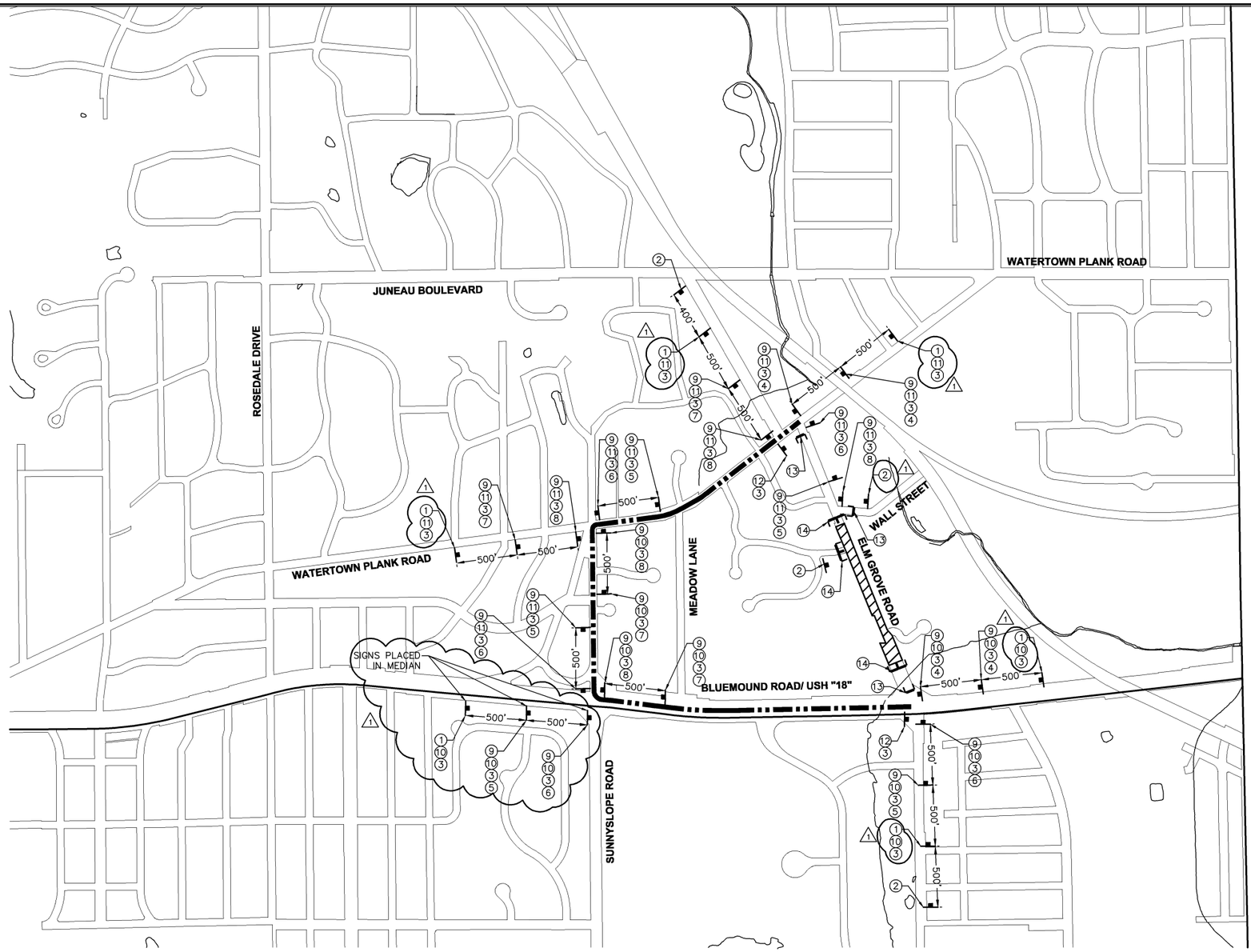
PROJECT NO. 38-10003.200

RM2234C



0 1 2 3 4 500 1000
SCALE IN FEET

TRAFFIC CONTROL NOTES

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
2. TYPE III BARRICADES SHALL HAVE TWO TYPE A LIGHTS ON EACH BARRICADE AND HAVE A WIDTH OF 8 FEET.
3. ALL SIGNS WHICH CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

LEGEND

WORK ZONE

SIGN ON FIXED POST

E/C TYPE III BARRICADE WITH ATTACHED SIGN/WITHOUT ATTACHED SIGN

DETOUR ROUTE

FOLLOW WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD DETAIL DRAWINGS "BARRICADES AND SIGNS FOR ROAD CLOSURES" FOR ADDITIONAL TRAFFIC CONTROL DETAILS FOR THE ROAD CLOSURE AT WORK ZONE.

① DETOUR AHEAD — W020-2, 48"x 48"

② ROAD CLOSED AHEAD — W020-3, 48"x 48"

③ ELM GROVE ROAD — M1-94, VARIES x 21"

④ M06-3, 21"x 15"

⑤ M05-1L, 21"x 15"

⑥ M06-1L, 21"x 15"

⑦ M05-1R, 21"x 15"

⑧ M06-1R, 21"x 15"

⑨ DETOUR — M4-8, 24"x 12"

⑩ NORTH — M03-1, 24"x 12"

⑪ SOUTH — M03-3, 24"x 12"

⑫ END DETOUR — M4-8A, 24"x 18"

⑬ ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY — R11-3A, 60"x 30"

⑭ ROAD CLOSED LOCAL TRAFFIC ONLY — R11-3A, 60"x 30"

REVISIONS			
1	04/12/13	ADD SIGNS	
2			
3			
4			
5			
6			
7			

TOWN: 7N RANGE: 20E SECTION(s): 25 SW, NW

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ELM GROVE ROAD AND WALL STREET
WATER MAIN EXTENSION
TRAFFIC CONTROL PLAN
VILLAGE OF ELM GROVE
WAUKESHA COUNTY, WISCONSIN

DESIGNED BY: ADP
DRAFTED BY: PJR
CHECKED BY: KRW
DATE: MARCH, 2013

FILE NO.
38-10003.200

BID SET

SHEET NO.
01R-1

Apr 12, 2013 8:38am PLOTTED BY: PRoth SAVED BY: PRoth
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IMAGES: G:\SHTYRMGraphic.jpg;
XREFS: Rm2234c

RM2234C

GENERAL NOTES

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT A BORING CONTINGENCY PLAN TO OWNER, ENGINEER AND DNR, SHOWING RESPONSE TO A SPILL OR INADVERTENT RELEASE OF DRILLING FLUID (FRAC–OUT).
2. INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE DONE ONCE PER WEEK AND AFTER EVERY PRECIPITATION EVENT OF 1/2–INCH OR GREATER.
3. CONTRACTOR SHALL REPAIR DEFICIENT EROSION AND SEDIMENT CONTROL MEASURES WITHIN 24–HOURS AFTER INSPECTION. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES NOT SHOWN ON THIS PLAN MAY BE NECESSARY AS A RESULT OF CONSTRUCTION PRACTICES OR AS DIRECTED BY OWNER AND/OR ENGINEER.
4. ADDITIONAL EROSION AND/OR SEDIMENT CONTROL MEASURES MAY BE NECESSARY AS A RESULT OF THE CONTRACTOR'S METHODS OR AS DIRECTED BY OWNER AND/OR ENGINEER.
5. CONTRACTOR SHALL NOTIFY AND OBTAIN WRITTEN ACCEPTANCE FROM ENGINEER OF PROPOSED CHANGES TO THE EROSION CONTROL PLAN AND/OR SEQUENCE PRIOR TO IMPLEMENTING THE CHANGE.
6. ENGINEER IS UNDER NO OBLIGATION TO ALTER THE CONSTRUCTION SEQUENCE AND/OR EROSION CONTROL PLAN.
7. CONTRACTOR SHALL SWEEP ROADS ADJACENT TO THE PROJECT LOCATION AT THE END OF EACH DAY AND AS DIRECTED BY OWNER AND ENGINEER.
8. ALL INSTALLATION, MAINTENANCE AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "WISCONSIN DNR TECHNICAL STANDARDS."
9. CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL PRACTICES IN ACCORDANCE WITH THE "WISCONSIN DNR TECHNICAL STANDARDS."
10. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE CONSTRUCTION SEQUENCE, AND FOR MAINTAINING AND REPAIRING EROSION AND SEDIMENT CONTROL DEVICES WITHIN 24 HOURS AFTER AN INSPECTION.
11. IF TRENCH DEWATERING IS NECESSARY, CONTRACTOR SHALL PROVIDE PROPER DEWATERING SEDIMENT CONTROL DEVICE. DISCHARGE OF SEDIMENT LADEN TRENCH WATER TO THE STREET, STORM SEWER OR SURFACE WATER IS PROHIBITED.
12. EXCESS MATERIAL THAT IS HAULED OFF SITE SHALL BE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL OBTAIN PROPER PERMIT APPROVALS FOR EACH FILL SITE. EROSION AND SEDIMENT CONTROL MEASURES AT FILL SITE IS CONTRACTOR'S RESPONSIBILITY. RESTORATION AND STABILIZATION AT FILL SITE IS CONTRACTOR'S RESPONSIBILITY.
13. CONTRACTOR SHALL MAINTAIN SITE DRAINAGE AT ALL TIMES DURING CONSTRUCTION.

CONSTRUCTION SEQUENCE

1. INSTALL WORK ZONE TRAFFIC CONTROL MEASURES.
2. INSTALL AND MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE "WISCONSIN DNR TECHNICAL STANDARDS." MAINTAIN MEASURES AT THE END OF EACH DAY.
3. STAGE WORK CONSTRUCTION BY WORK LOCATION.
4. BEGIN WATER MAIN EXTENSION
   a. INSTALL PROPOSED WATER MAIN, VALVES, AND FIRE HYDRANTS.
   b. SUCCESSFULLY PASS ALL TESTS.
   c. INSTALL WATER SERVICES INCLUDING CURB VALVE AND BOX.
   d. MAKE CONNECTION TO EXISTING MAIN. COORDINATE WORK WITH OWNER AND CITY OF BROOKFIELD.
5. BEGIN PAVEMENT REPLACEMENT
   a. REPLACE CULVERTS AND STORM SEWERS IMPACTED BY WATER MAIN CONSTRUCTION.
   b. RESTORE EXISTING DITCH LINE AND GRADE.
   c. REPLACE SURFACING AND GRAVEL SHOULDERS.
   d. FOLLOW COMPLETION DEADLINES AND PAVEMENT REPLACEMENT SCHEDULE IN SECTIONS 00520 AND 01100 OF PROJECT MANUAL.
6. INSTALL OR ADJUST EROSION CONTROL MEASURES IN NEW FACILITIES. INSTALL ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY.
7. AREAS PLANNED TO BE INACTIVE FOR 30 DAYS OR LONGER SHALL BE TEMPORARILY STABILIZED FOLLOWING DNR TECHNICAL STANDARD 1059 SEEDING. THESE AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF BEING INACTIVE.
8. AREAS BROUGHT TO FINAL GRADE SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS.
9. COMPLETE FINAL RESTORATIONS INCLUDING BUT NOT LIMITED TO: TOPSOIL, FERTILIZER, SEED, MULCH, AND EROSION MATTING.
10. REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER 80% GROWTH DENSITY HAS OCCURRED IN 100% OF RESTORATION AREAS. CONTRACTOR SHALL OBTAIN OWNER AND ENGINEER APPROVAL PRIOR TO REMOVING THE MEASURE(S). RESTORE DISTURBED AREAS AROUND REMOVED DEVICES AND CLEAN SITE.

TRENCH DEWATERING NOTES

1. IT IS NOT ANTICIPATED THAT TRENCH DEWATERING WILL BE NECESSARY. HOWEVER, THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO OWNER, ENGINEER AND DNR PRIOR TO CONSTRUCTION FOLLOWING REQUIREMENTS WITHIN SECTIONS 02140 AND 02370 OF THE PROJECT MANUAL AND DNR TECHNICAL STANDARD 1061.
2. CONTRACTOR WILL BE REQUIRED TO OBTAIN AND FOLLOW REQUIREMENTS OF DNR WATER SUPPLY SECTION FOR WELLS AND DEWATERING IN EXCESS OF 70 GPM.
3. CONTRACTOR SHALL UTILIZE SILT BAGS OR BOXES OF APPROPRIATE SIZE AND PROVIDE ADDITIONAL MEASURES AS NECESSARY TO DISCHARGE CLEAN WATER BASED UPON CONDITIONS AND CONTRACTOR'S OPERATIONS. MEASURES EMPLOYED FOR DEWATERING SHALL NOT BE PLACED IN LOCATIONS THAT BLOCK SITE DRAINAGE, OR VEHICLE/PEDESTRIAN TRAFFIC. DEWATERING DISCHARGE SHALL BE DIRECTED ONTO GRASS AREAS WHERE POSSIBLE AND NOT IMPACT ADJACENT STRUCTURES, PRIVATE PROPERTY, WETLANDS, WATERWAYS OR BE DIRECTED TO SANITARY SEWERS.
4. THE DEWATERING PLAN AND NOTES SHALL SERVE AS A GUIDELINE FOR CONTRACTOR'S DEWATERING OPERATIONS.
5. IF MODIFICATIONS TO THE DEWATERING PLAN ARE NEEDED, CONTRACTOR SHALL PREPARE A WRITTEN REQUEST THAT DETAILS THE NECESSARY MODIFICATIONS AND OBTAIN APPROVAL FROM THE OWNER AND DNR PRIOR TO IMPLEMENTING THE MODIFICATION IN THE FIELD.
6. THE USE OF SILT BAGS OR BOXES SHALL BE CONSIDERED THE MINIMUM MEASURE NECESSARY, OTHER MEASURES NEEDED TO MAINTAIN CLEAR DISCHARGE SHALL BE IMPLEMENTED AS NECESSARY AND IMPLEMENTED IMMEDIATELY UPON OBTAINING OWNER APPROVAL. DEWATERING ACTIVITIES MAY NEED TO BE REDUCED OR ELIMINATED UNTIL APPROVALS HAVE BEEN OBTAINED. DEWATERING EFFLUENT SHALL REMAIN CLEAR AT ALL TIMES.
7. IT IS ANTICIPATED THAT THE LINEAR CONSTRUCTION ACTIVITIES WILL CREATE DISTURBED SOIL WITHIN EXISTING DRAINAGE SWALES AND DITCHES. CONTRACTOR SHALL CONTINUOUSLY MONITOR DEWATERING EFFLUENT QUALITY DOWNSTREAM OF THE SEDIMENTATION BASIN TO ENSURE THAT THE FLOW OF WATER IS NOT PRODUCING EROSION. CONTRACTOR SHALL WORK TO ELIMINATE EROSIVE FORCES OF DEWATERING EFFLUENT TO ENSURE CLEAR DISCHARGE.
8. DEWATERING OPERATIONS, IF NEEDED, SHALL PROGRESS WITH CONSTRUCTION OPERATIONS. IT IS ANTICIPATED THAT MULTIPLE DEWATERING MEASURES WILL BE SPREAD THROUGHOUT THE PROJECT IF DEWATERING IS NEEDED.
9. CONTRACTOR SHALL MONITOR THE PERFORMANCE AND EFFECTIVENESS OF THE DEWATERING SEDIMENTATION DEVICE. PERIODIC REPLACEMENT OF SILT BAGS WILL BE NECESSARY. SEDIMENT WITHIN SILT BAGS MAY BE SPREAD–OUT WITHIN SPOIL BACKFILL TRENCHES OR SHALL OTHERWISE BE DISPOSED OF PROPERLY OFFSITE. USE OF DEWATERED SEDIMENT WITHIN SPOIL BACKFILL TRENCHES MUST NOT COMPROMISE TRENCH COMPACTION. PERIODIC REPLACEMENT OF BALES AND FILTER FABRIC MAY ALSO BE REQUIRED.
10. USE OF OTHER DEWATERING SEDIMENTATION DEVICES SUCH AS STONE FILLED TRENCH BOXES OR STONE SEDIMENT TRAPS MAY BE ACCEPTABLE, HOWEVER, OWNER APPROVAL IS REQUIRED PRIOR TO USE. USE OF OTHER DEWATERING SEDIMENTATION DEVICES SHALL COMPLY WITH THE REQUIREMENTS SET FORTH ABOVE.

REVISIONS	
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TOWN: 7N RANGE: 20E SECTION(s): 25 SW, NW

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ELM GROVE ROAD AND WALL STREET
WATER MAIN EXTENSION
GENERAL NOTES
VILLAGE OF ELM GROVE
WAUKESHA COUNTY, WISCONSIN

DESIGNED BY: ADP
DRAFTED BY: PJR
CHECKED BY: KRW
DATE: MARCH, 2013

FILE NO.
38-10003.200

BID SET

SHEET NO.
02

Mar 20, 2013 3:30pm PLOTTED BY: PRoth SAVED BY: PRoth
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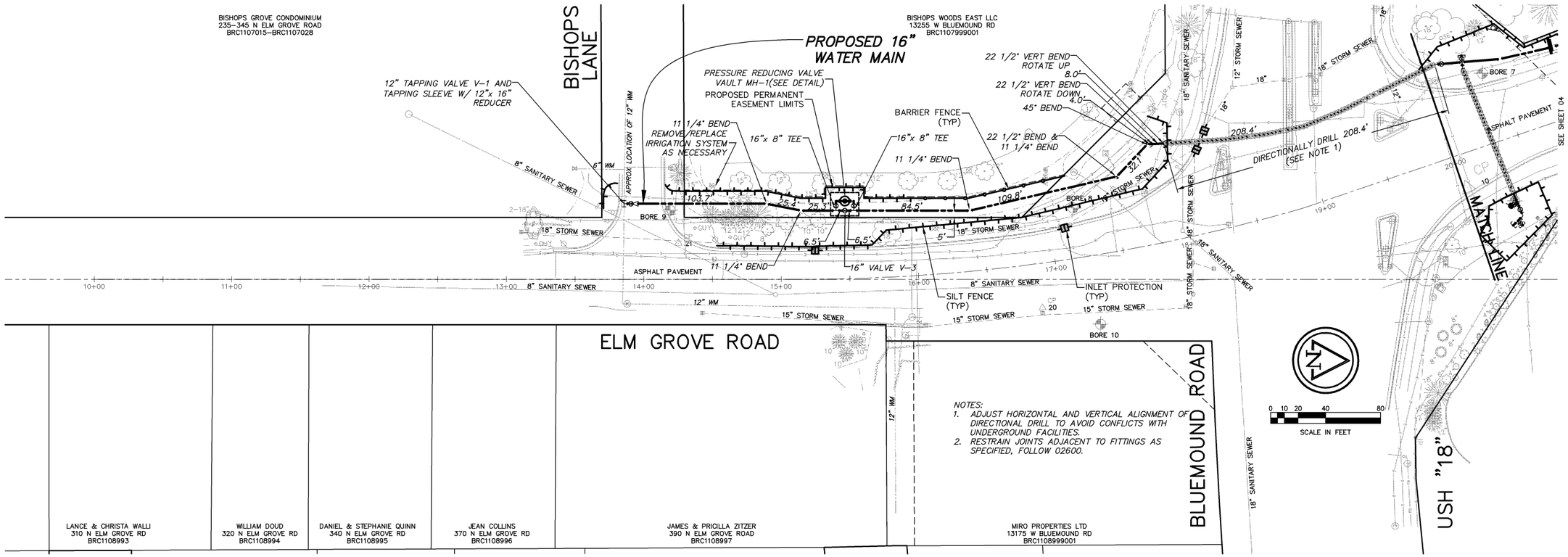

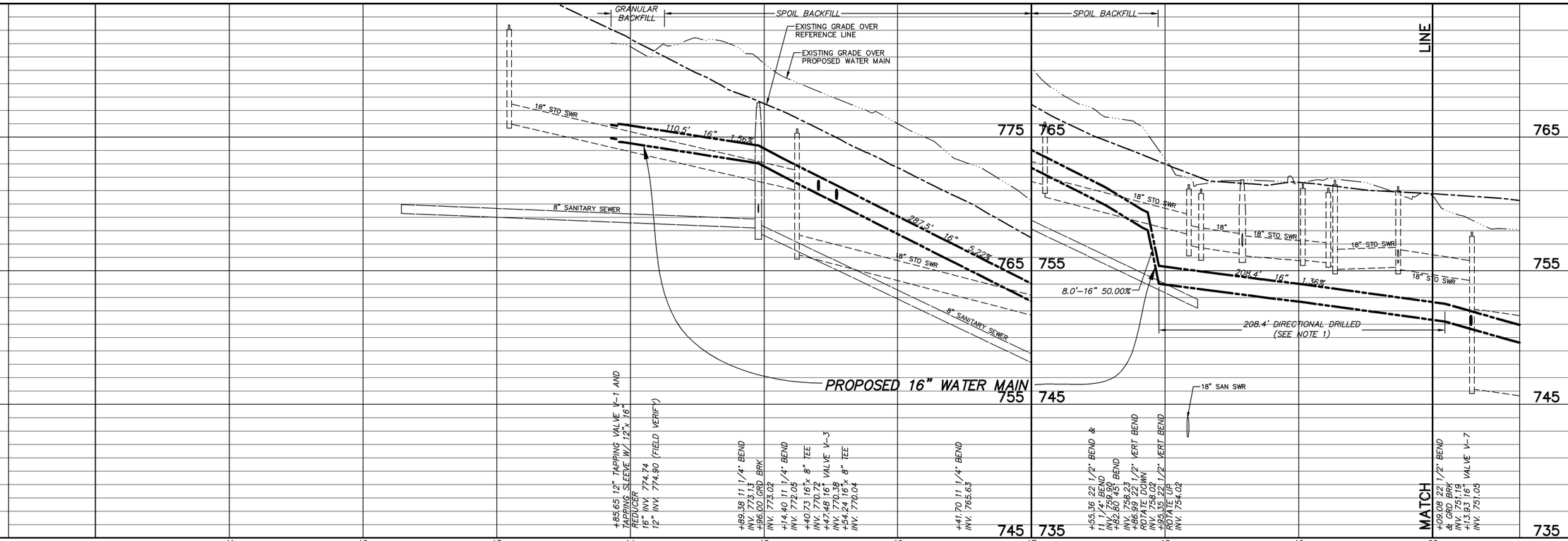

ELM GROVE ROAD AND WALL STREET WATERMAIN EXTENSION
PROPOSED WATER MAIN
IN: ELM GROVE ROAD
FROM: BISHOPS LANE
TO: BLUEMOUND ROAD/USH "18"
VILLAGE OF ELM GROVE
WAUKESHA COUNTY, WISCONSIN

REVISIONS	TOWN: 7N RANGE: 20E SECTION(s): 25 SW
7	
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03

Mar 27, 2013 10:32am PLOTTED BY: PRoth SAVED BY: PRoth
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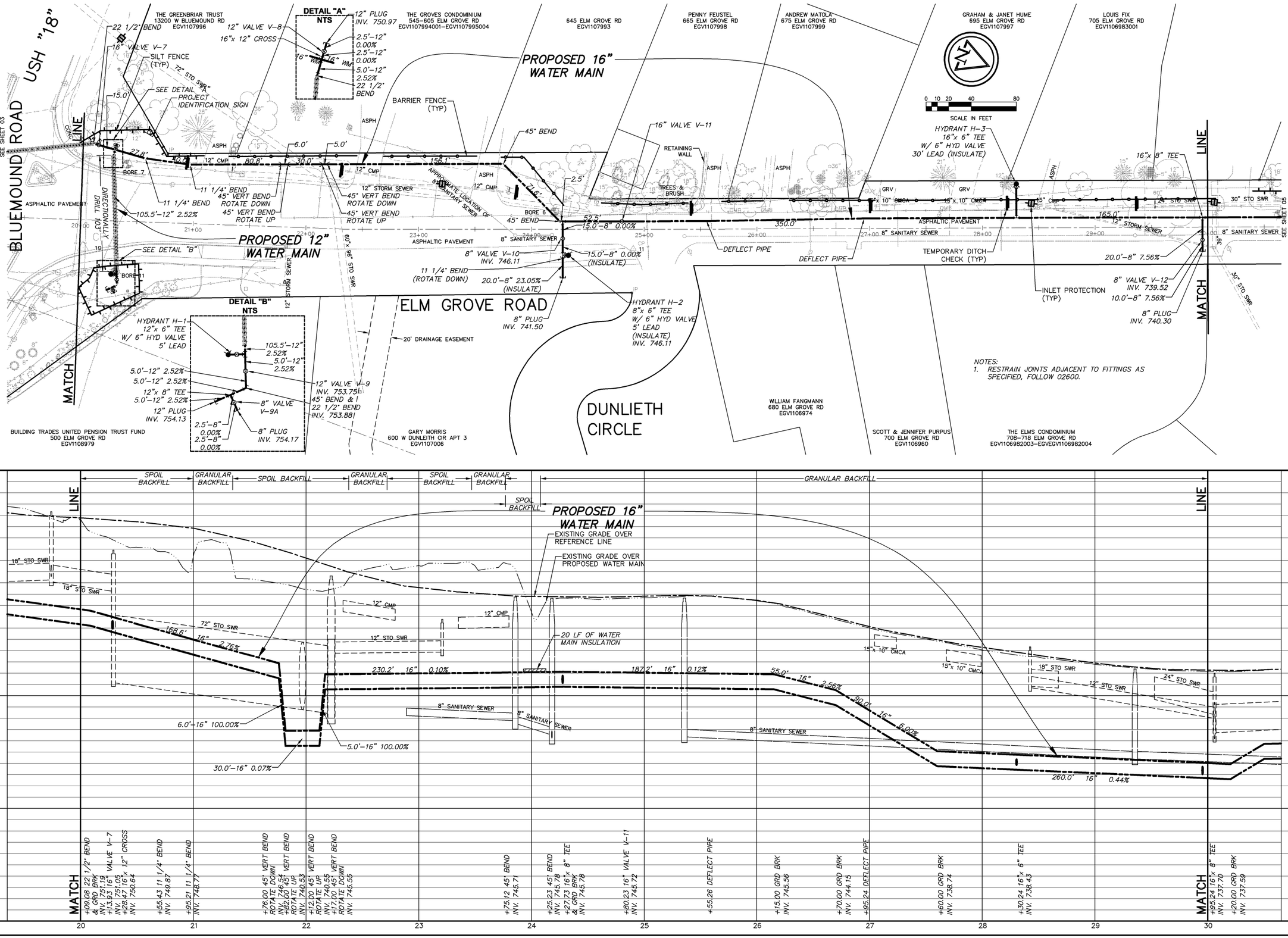

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REVISIONS	
TOWN:	7N
RANGE:	20E
SECTION(s):	25 SW

ELM GROVE ROAD AND WALL STREET WATERMAIN EXTENSION
PROPOSED WATER MAIN
IN: ELM GROVE ROAD
FROM: BLUEMOUND ROAD/USH "18"
TO: 300' SOUTH OF HIGHWOOD DRIVE
VILLAGE OF ELM GROVE
WAUKESHA COUNTY, WISCONSIN

DESIGNED BY: ADP
DRAFTED BY: PJR
CHECKED BY: KRW
DATE: MARCH, 2013

FILE NO.
38-10003.200

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SHEET NO.
04

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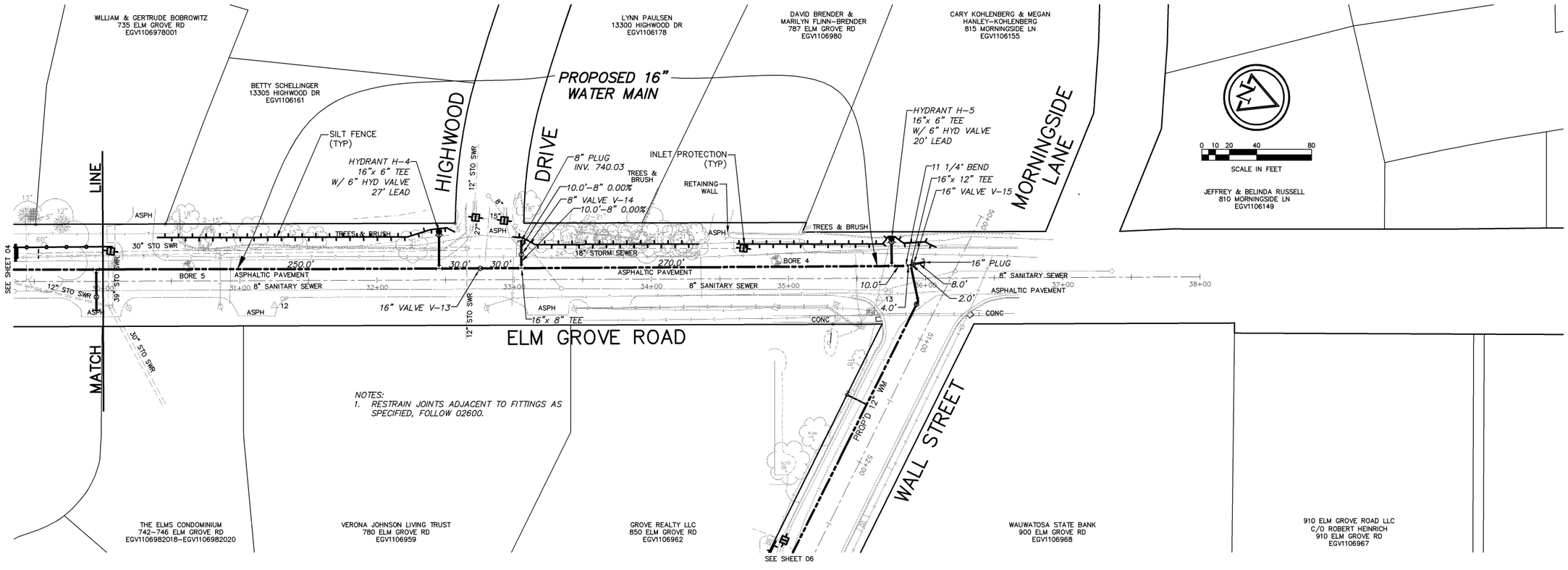

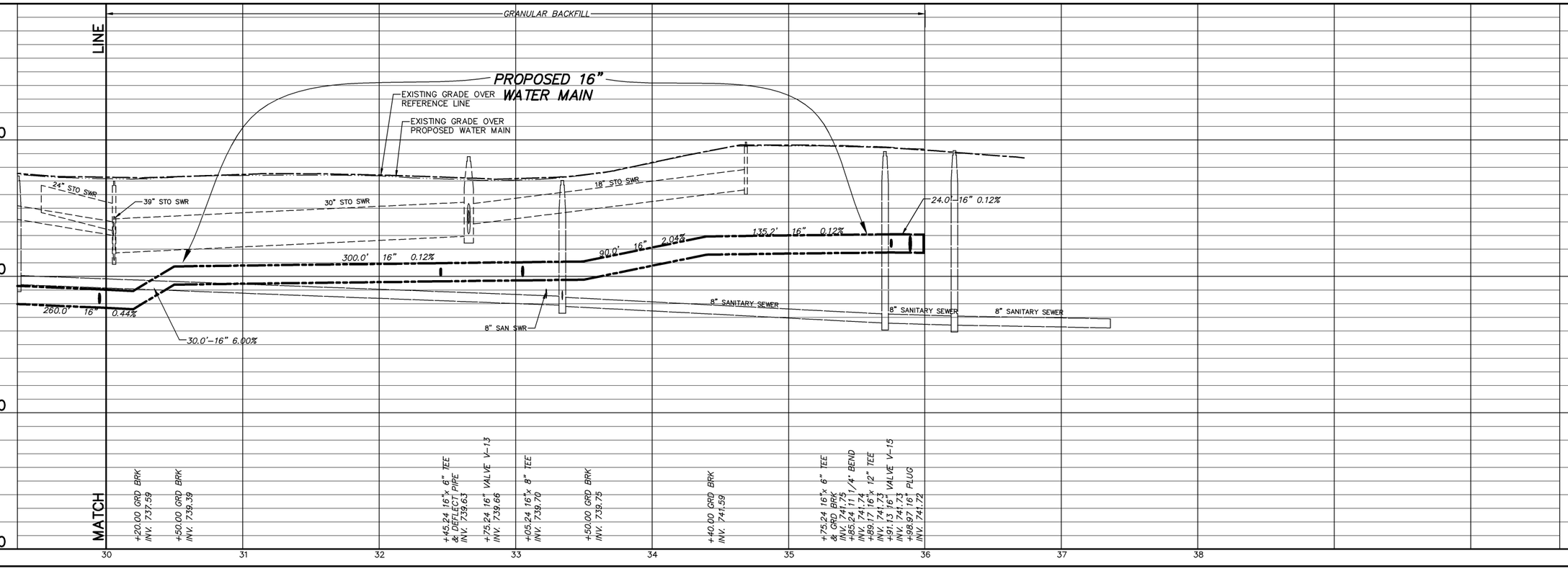

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7	6	5	4	3	2	1	

REVISIONS

TOWN: 7N RANGE: 20E SECTION(s): 25 SW

ELM GROVE ROAD AND WALL STREET WATERMAIN EXTENSION
PROPOSED WATER MAIN
IN: ELM GROVE ROAD
FROM: 300' SOUTH OF HIGHWOOD DRIVE
TO: WALL STREET
VILLAGE OF ELM GROVE
WAUKESHA COUNTY, WISCONSIN

DESIGNED BY: ADP
DRAFTED BY: PJR
CHECKED BY: KRW
DATE: MARCH, 2013

FILE NO.
38-10003.200

BID SET

SHEET NO.
05

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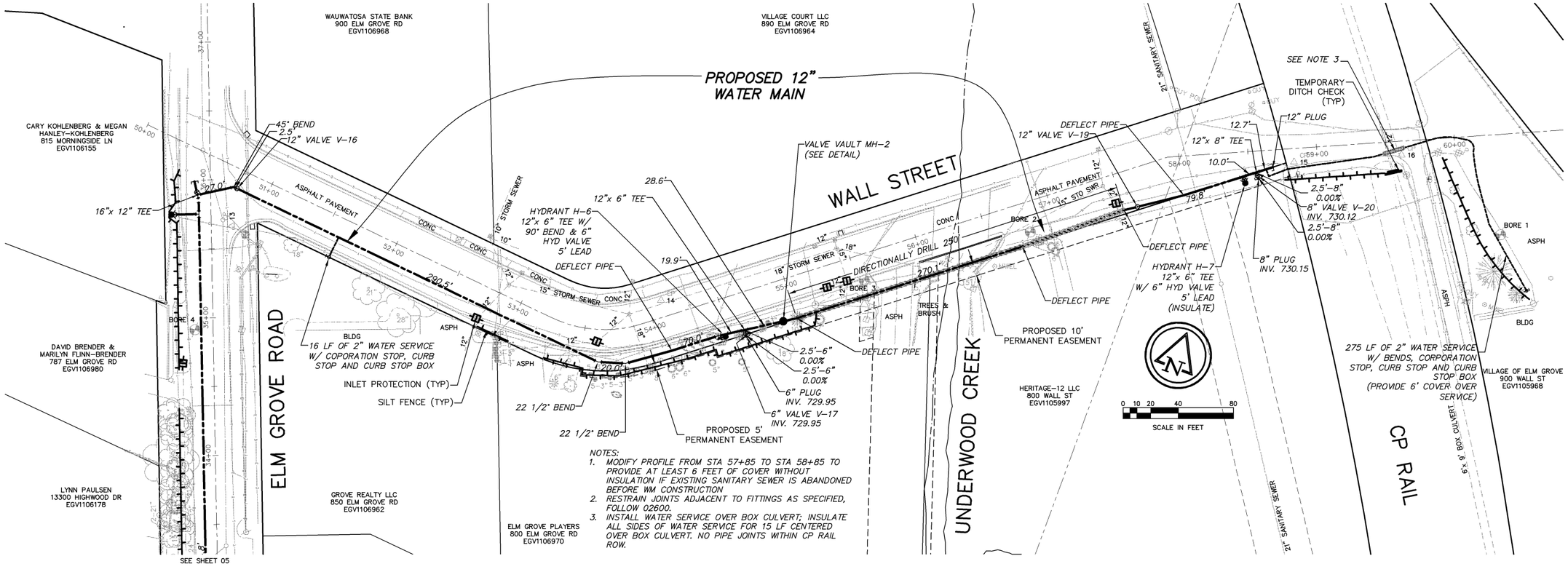
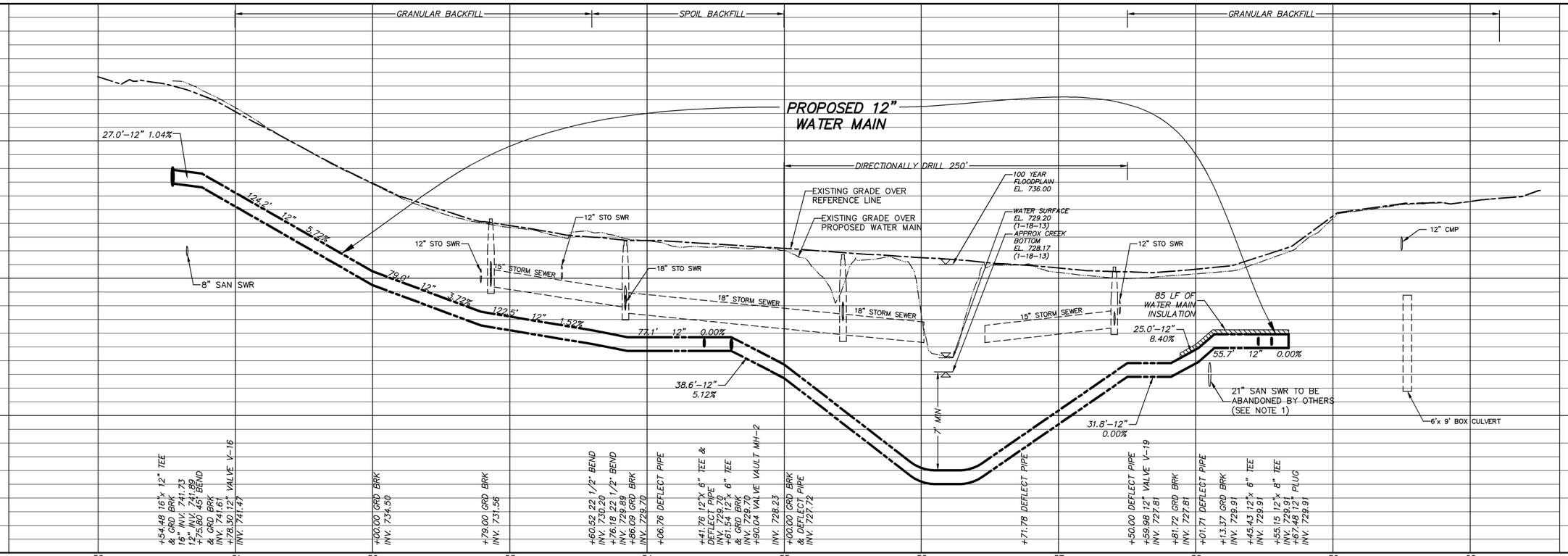


NOTES:
1. MODIFY PROFILE FROM STA 57+85 TO STA 58+85 TO PROVIDE AT LEAST 6 FEET OF COVER WITHOUT INSULATION IF EXISTING SANITARY SEWER IS ABANDONED BEFORE WM CONSTRUCTION
2. RESTRAIN JOINTS ADJACENT TO FITTINGS AS SPECIFIED, FOLLOW 02600.
3. INSTALL WATER SERVICE OVER BOX CULVERT; INSULATE ALL SIDES OF WATER SERVICE FOR 15 LF CENTERED OVER BOX CULVERT. NO PIPE JOINTS WITHIN CP RAIL ROW.



ELM GROVE ROAD AND WALL STREET WATERMAIN EXTENSION
PROPOSED WATER MAIN
IN: WALL STREET
FROM: ELM GROVE ROAD
TO: 1000' EAST OF ELM GROVE ROAD
VILLAGE OF ELM GROVE
WAUKESHA COUNTY, WISCONSIN

DESIGNED BY: ADP
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CHECKED BY: KRW
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SHEET NO. 06

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7	6	5	4	3	2	1	REVISIONS

TOWN: 7N RANGE: 20E SECTION(s): 25 SW

Mar 20, 2013 2:14pm PLOTTED BY: PRoth SAVED BY: PRoth
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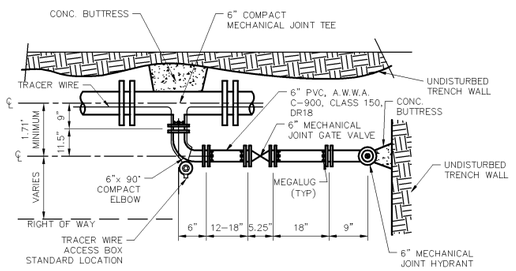
PLATE NO. BRK. 009A



NOTE :
MEGALUG RESTRAINING GLANDS ON ALL MECHANICAL JOINTS , THE BOLTS & NUTS ARE TO BE HIGH STRENGTH LOW ALLOY STEEL (CORTEN) AS PER SECTION 11.6.5 OF A.W.W.A. C-111.

HYDRANT NOZZLE TO BE ROTATED TO FACE STREET.

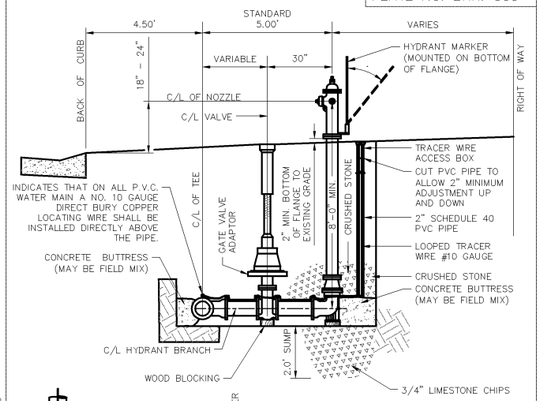
REVISED: 9/21/05
REVISED: 6/26/02

CITY OF BROOKFIELD
ALTERNATE TIGHT SIDE HYDRANT SETTING "B"

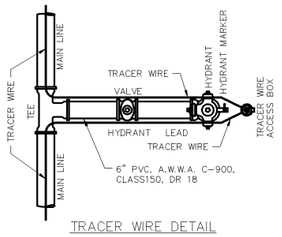
STANDARD DETAIL NOT TO SCALE

J:\Drafting Standards\dwg\REVISED DETAILS\PLATE09A ALT HYD.SETTING.dwg

PLATE NO. BRK. 009



NOTE:
MEGALUG RESTRAINING GLANDS ON ALL MECHANICAL JOINTS, THE BOLTS & NUTS ARE TO BE HIGH STRENGTH LOW ALLOY STEEL (CORTEN) AS PER SECTION 11.6.5 OF A.W.W.A. C-111.



TRACER WIRE DETAIL
NOT TO SCALE

REVISED: 9/21/05
REVISED: 8/23/95

CITY OF BROOKFIELD
TYPICAL HYDRANT SETTING "A"

STANDARD DETAIL NOT TO SCALE

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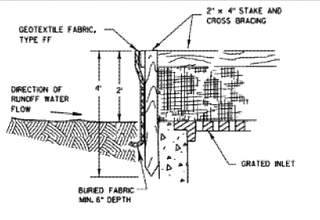
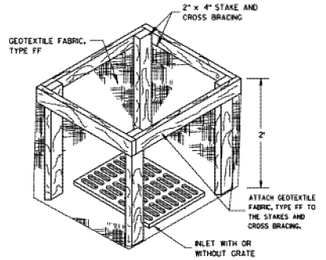
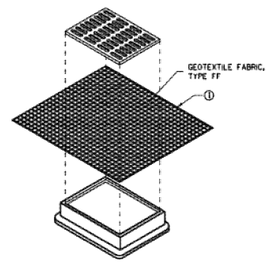
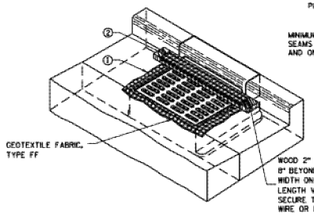




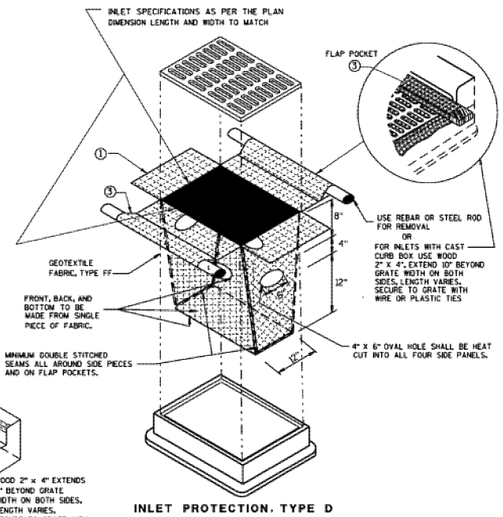
INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 30" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 10-2.

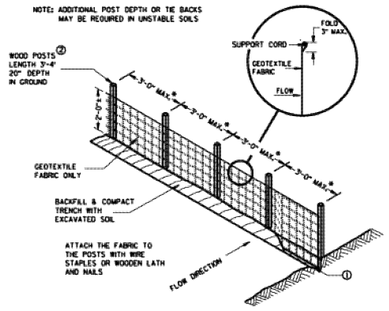
INLET PROTECTION
TYPE A, B, C, AND D

GENERAL NOTES

① TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

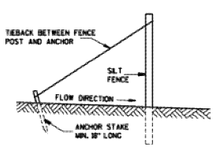
② WOOD POSTS SHALL BE A MINIMUM SIZE OF 1½" X 1½" OF OAK OR HICKORY.

③ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES. B) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.

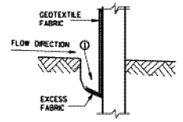


*NOTE: 9'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

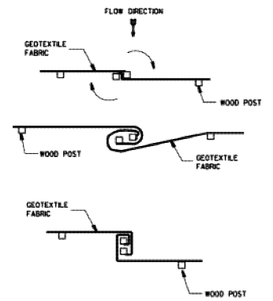
SILT FENCE



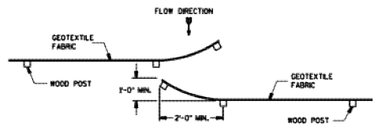
SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT REQUIRED)



TRENCH DETAIL



TWIST METHOD



HOOK METHOD
JOINING TWO LENGTHS OF SILT FENCE ④

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 9-6.

SILT FENCE

REVISIONS	
7	
6	
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3	
2	
1	

TOWN: 7N RANGE: 20E SECTION(s): 25 SW

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ELM GROVE ROAD AND WALL STREET
WATER MAIN EXTENSION
CONSTRUCTION DETAILS

VILLAGE OF ELM GROVE
WAUKESHA COUNTY, WISCONSIN

DESIGNED BY: ADP
DRAFTED BY: PJR
CHECKED BY: KRW
DATE: MARCH, 2013

FILE NO.
38-10003.200

BID SET

SHEET NO.
07

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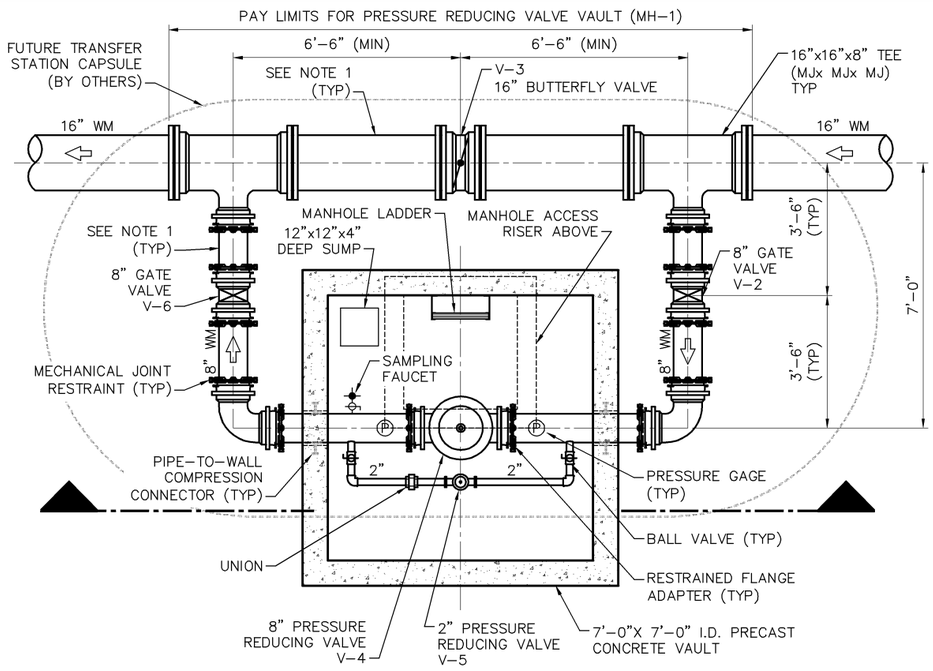
RM2234C



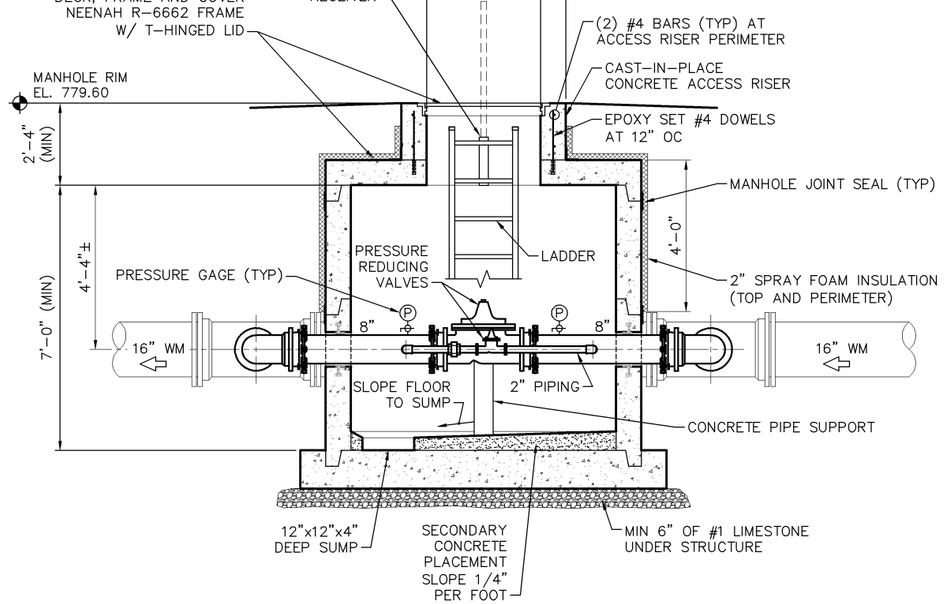
NOTES:

1. ALL PIPE 6" AND LARGER WITHIN PAY LIMITS SHALL BE DUCTILE IRON.

PRESSURE REDUCING VALVE VAULT (MH-1) PLAN

NO SCALE

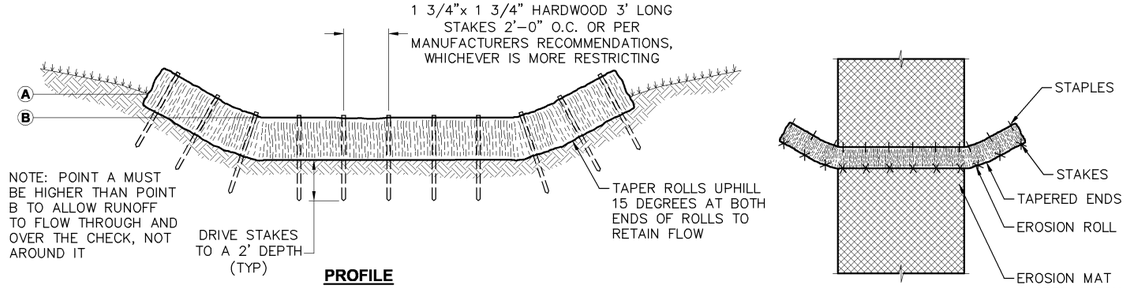
SPL–PRESSURE REDUCING VAULT 24



PRESSURE REDUCING VALVE VAULT (MH-1) SECTION

NO SCALE

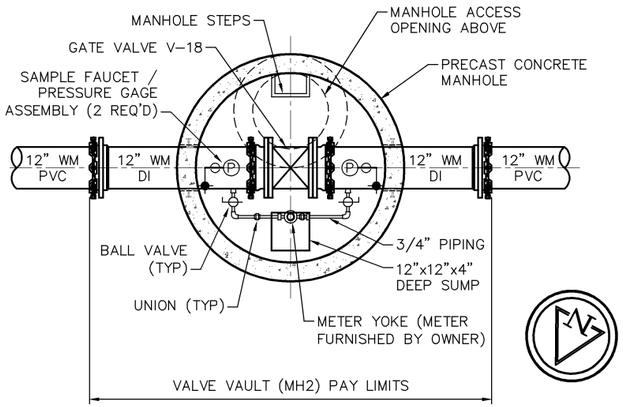
SSX–PRESSURE REDUCING VAULT 24



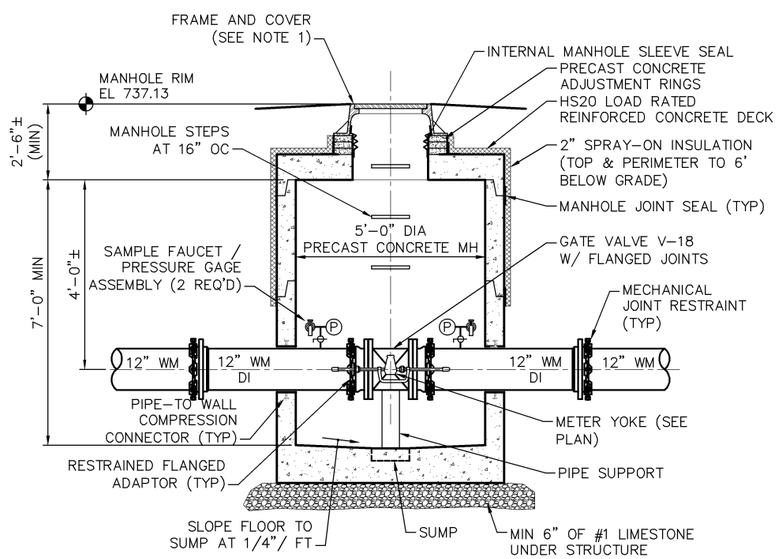
TEMPORARY DITCH CHECK DETAIL

NO SCALE

EC–DITCH–07 16



PLAN



SECTION

NOTE:
1. FRAME AND COVER SHALL FOLLOW SWS FILE NO. 14B, EXCEPT COVER SHALL BE MARKED "WATER".

VALVE VAULT (MH2)

NO SCALE

SSX–VALVE VLULT 24

REVISIONS
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4
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2
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TOWN: 7N RANGE: 20E SECTION(s): 25 SW

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WATER MAIN EXTENSION
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VILLAGE OF ELM GROVE
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DESIGNED BY: ADP
DRAFTED BY: PJR
CHECKED BY: KRW
DATE: MARCH, 2013

FILE NO.
38-10003.200

BID SET

SHEET NO.
08

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XREFS: Rm2234c; SPL_PRESSURE REDUCING VAULT; SSX-PRESSURE REDUCING VAULT; SSX-VALVE VAULT; EC-DITCH-07; PLATE09A ALT HYD.SETTING; PLATE09 HYD.SETTING