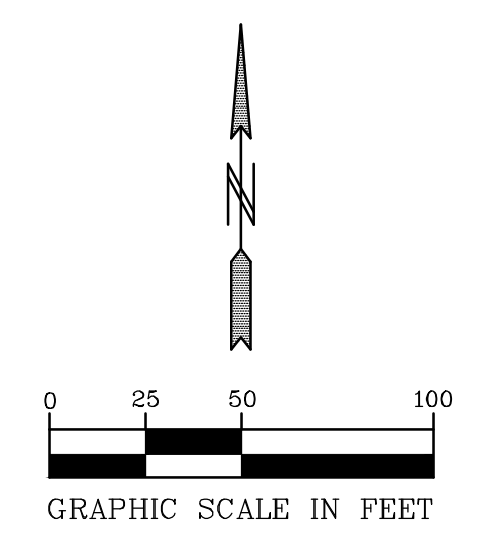
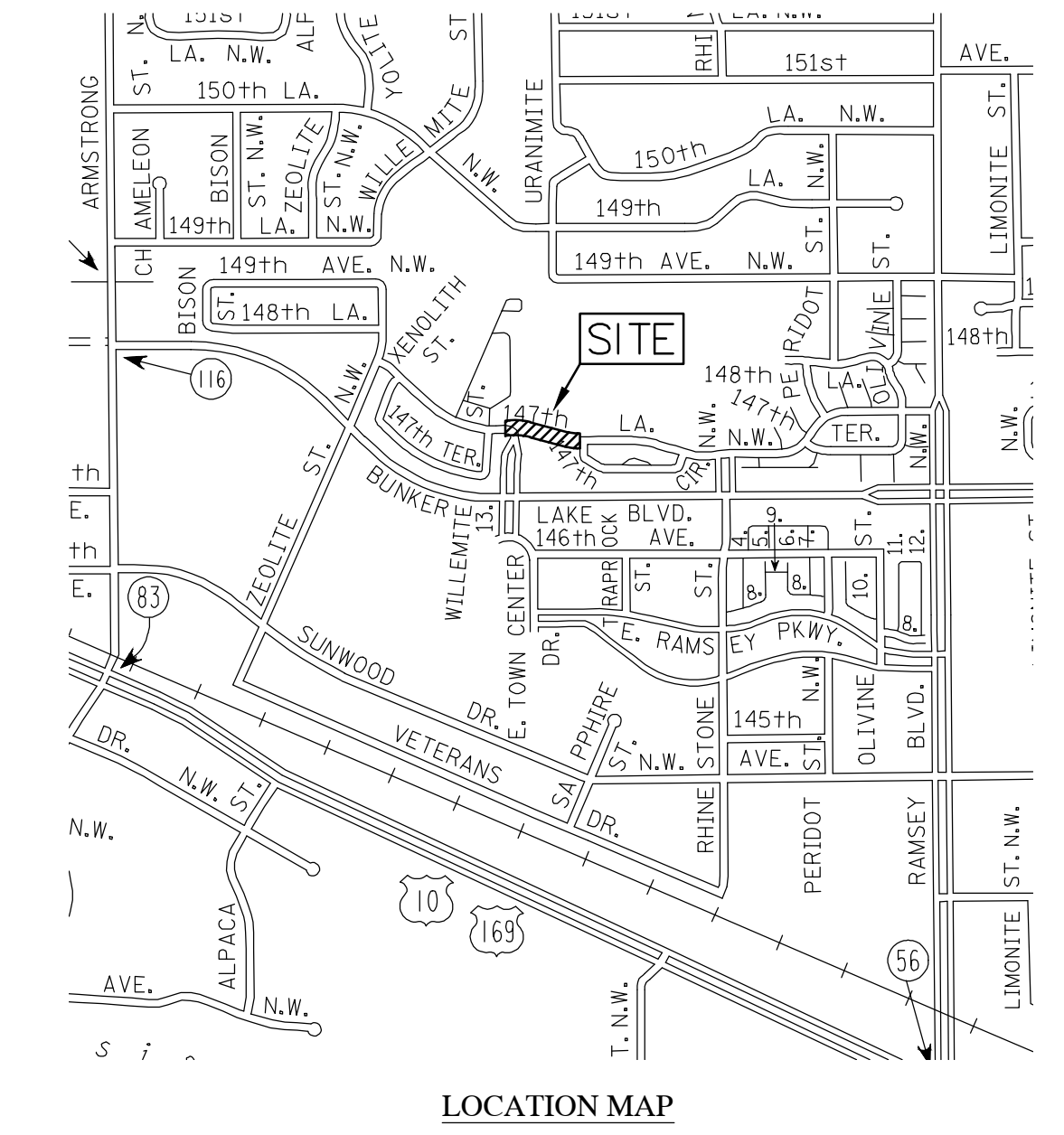
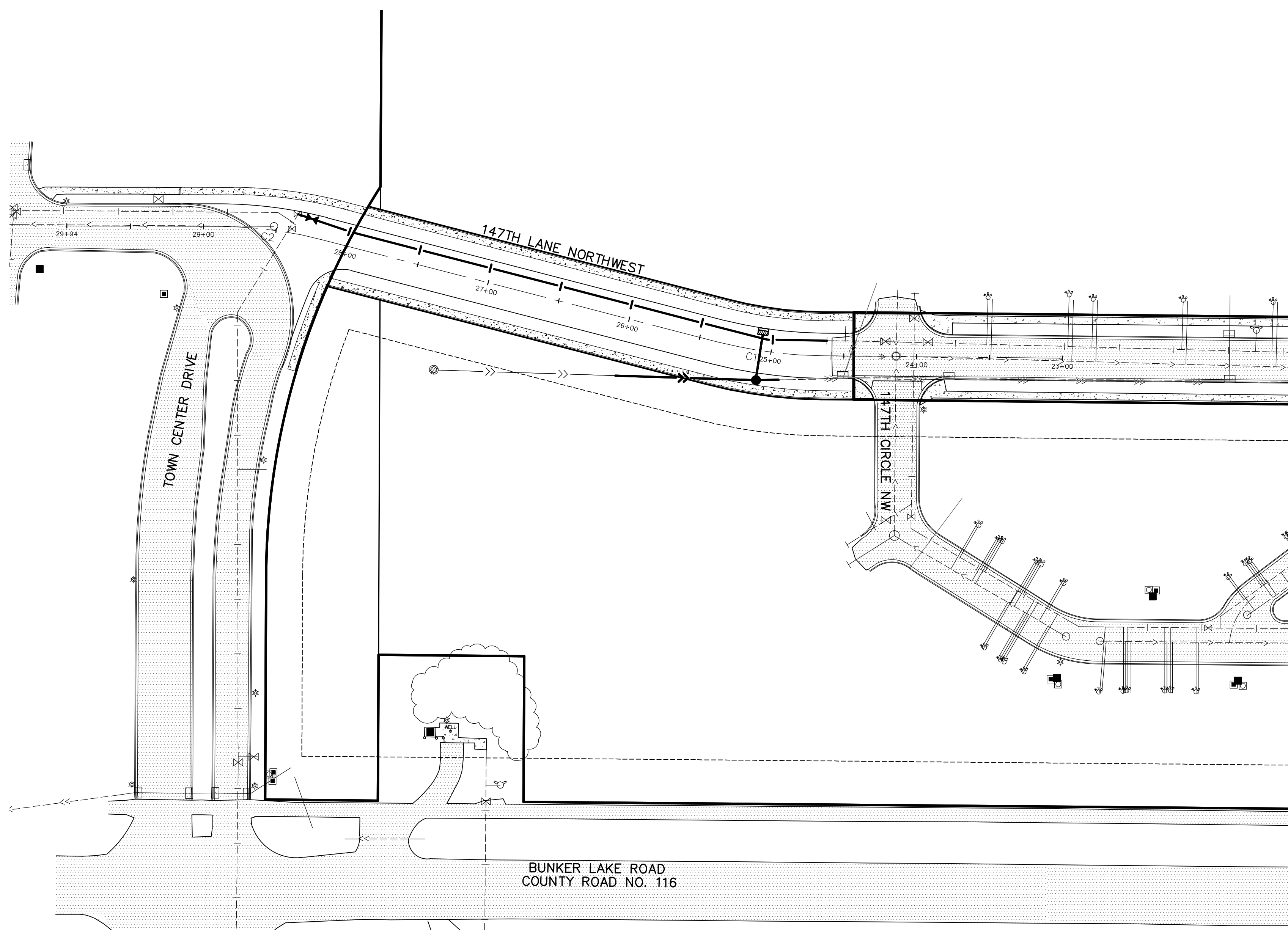


SEASONS OF RAMSEY 147TH LANE NORTHWEST FINAL UTILITY & STREET CONSTRUCTION PLAN RAMSEY, MINNESOTA



- SHEET INDEX**
1. COVER SHEET
 2. WATERMAIN PLAN
 3. STORM SEWER PLAN
 4. STREET CONSTRUCTION
 5. GRADING PLAN

EXISTING	PROPOSED	FUTURE	DESCRIPTION
○	●	⊙	SANITARY MANHOLE
→	→	→	EXISTING SANITARY SEWER
→	→	→	PROPOSED SANITARY SEWER
→	→	→	FUTURE SANITARY SEWER
⊗	⊗	⊗	HYDRANT
⊗	⊗	⊗	GATE VALVE
⊗	⊗	⊗	REDUCER
—	—	—	EXISTING WATERMAIN
—	—	—	PROPOSED WATERMAIN
—	—	—	FUTURE WATERMAIN
□	□	□	CATCH BASIN
⊙	⊙	⊙	BEEHIVE
⊙	⊙	⊙	STORM MANHOLE
⊙	⊙	⊙	FLARED END SECTION
⊙	⊙	⊙	CONTROL STRUCTURE
→	→	→	EXISTING STORM SEWER
→	→	→	PROPOSED STORM SEWER
→	→	→	FUTURE STORM SEWER
—	—	—	SURMOUNTABLE CURB & GUTTER
—	—	—	B-STYLE CURB & GUTTER
—	—	—	RIBBON CURB & GUTTER
—	—	—	PHASE LINE
—	—	—	EASEMENT LINE
—	—	—	EXISTING 2' CONTOUR LINE
—	—	—	EXISTING 10' CONTOUR LINE
—	—	—	PROPOSED 2' CONTOUR LINE
—	—	—	PROPOSED 10' CONTOUR LINE
—	—	—	POND OUTLET LINE
—	—	—	POND HIGH WATER LINE
—	—	—	PROPOSED SPOT ELEVATION
—	—	—	EMERGENCY OVERTFLOW
—	—	—	DELINEATED WETLAND LINE
—	—	—	FEMA FLOODPLAIN BOUNDARY
—	—	—	STANDARD EROSION CONTROL
—	—	—	HEAVY-DUTY EROSION CONTROL
—	—	—	TREE FENCE
—	—	—	RETAINING WALL
—	—	—	CONSERVATION AREA SIGN
—	—	—	WETLAND BUFFER SIGN
—	—	—	EX. CULVERT
—	—	—	EX. OVERHEAD UTILITY LINES
—	—	—	EX. UNDERGROUND TELEVISION LINE
—	—	—	EX. UNDERGROUND TELEPHONE LINE
—	—	—	EX. UNDERGROUND FIBER OPTIC LINE
—	—	—	EX. UNDERGROUND ELECTRIC LINE
—	—	—	EX. UNDERGROUND GAS LINE
—	—	—	EX. FENCE (BARBED WIRE)
—	—	—	EX. FENCE (CHAIN LINK)
—	—	—	EX. FENCE (WOOD)
—	—	—	EX. CAST IRON MONUMENT
—	—	—	EX. ELECTRIC BOX
—	—	—	EX. FLAG POLE
—	—	—	EX. NATURAL GAS METER
—	—	—	EX. HAND HOLE
—	—	—	EX. FOUND IRON PIPE
—	—	—	EX. JUDICIAL LAND MARK
—	—	—	EX. LIGHT POLE
—	—	—	EX. PK NAIL
—	—	—	EX. UTILITY POLE
—	—	—	EX. LAWN SPRINKLER VALVE
—	—	—	EX. LAWN SPRINKLER HEAD
—	—	—	EX. SEMAPHORE
—	—	—	EX. SERVICE
—	—	—	EX. TELEPHONE BOX
—	—	—	EX. TEST HOLE
—	—	—	EX. TELEVISION BOX
—	—	—	EX. WATER WELL
—	—	—	EX. MONITORING WELL
—	—	—	EX. MAILBOX
—	—	—	EX. CONTROL POINT
—	—	—	EX. SPIKE
—	—	—	EX. SIGN
—	—	—	EX. CLEANOUT
—	—	—	EX. SIGNIFICANT TREE
—	—	—	EX. TREE LINE
—	—	—	EX. GRAVEL SURFACE
—	—	—	EX. BITUMINOUS SURFACE
—	—	—	EX. CONCRETE SURFACE
—	—	—	SELECT BACKFILL MATERIAL
—	—	—	GRAVEL CONST. ENTRANCE



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I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota
Name: John M. Molinaro
Reg. No.: 45831
Date: 1-18-13

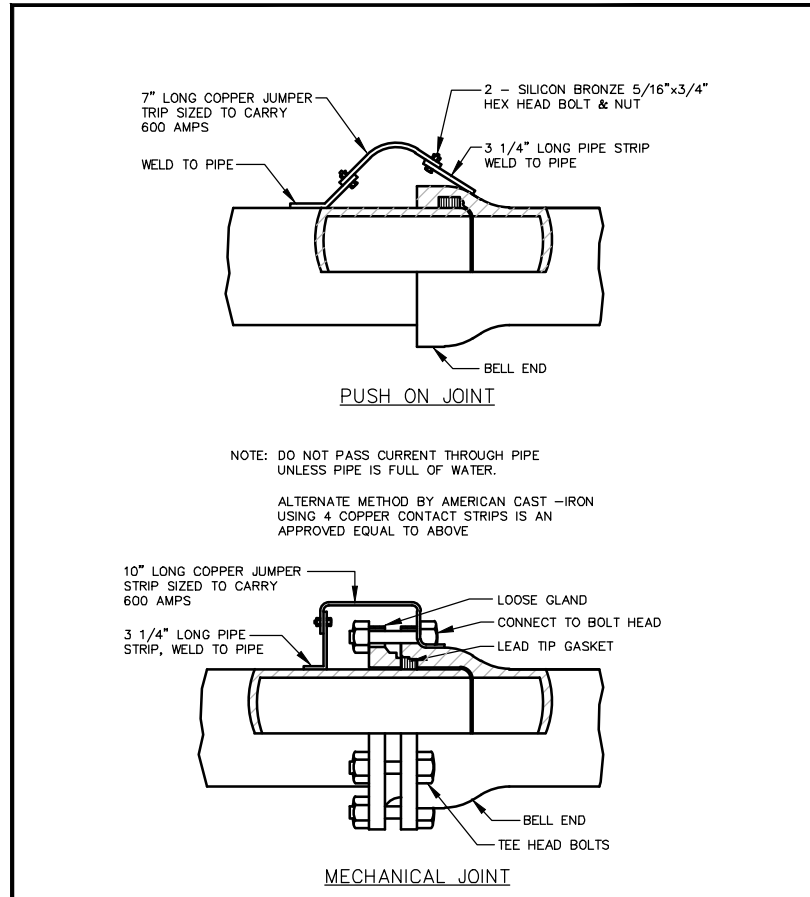
Revisions
Date: 1-18-13
Designed: JMM
Drawn: JMM

COVER SHEET

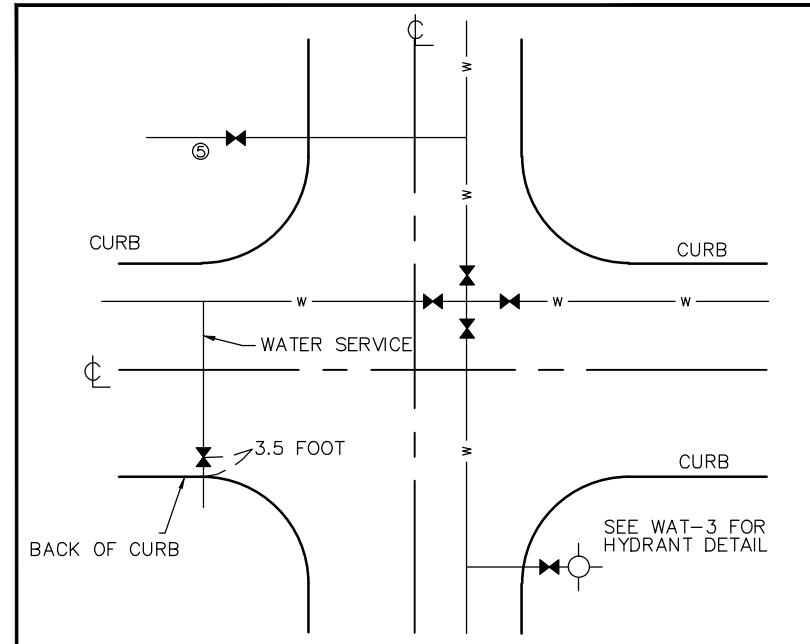
SEASONS OF RAMSEY LP
3601 18TH STREET SOUTH, SUITE 117
ST. CLOUD, MINNESOTA 56301

SEASONS OF RAMSEY
RAMSEY, MINNESOTA

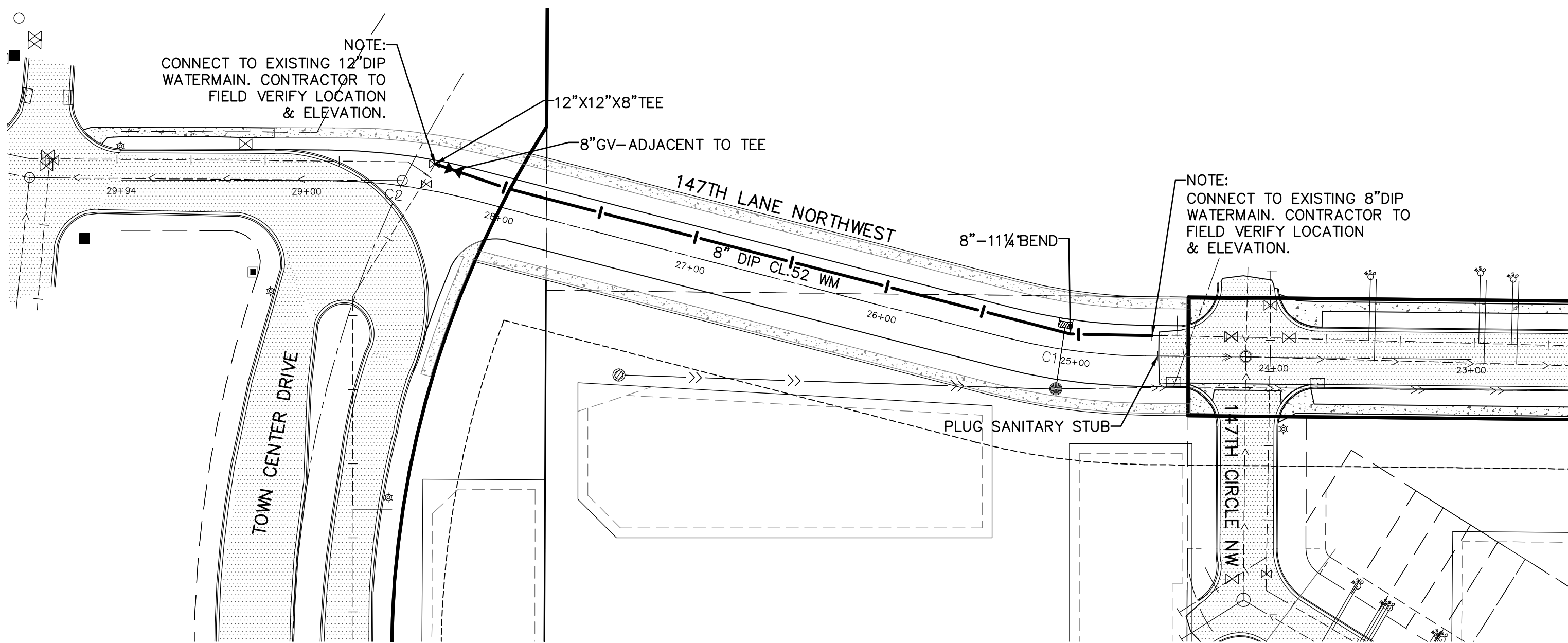
1 OF 5



APPROVED: [Signature] DATE: 7-83
 STANDARD DETAILS
 JOINT CONNECTION FOR
 ELECTRICAL CONDUCTIVITY
 CITY PLATE No. WAT-1



APPROVED: [Signature] DATE: 3-2004
 STANDARD DETAILS
 GENERAL WATERMAIN
 VALVE LOCATION
 CITY PLATE No. WAT-2

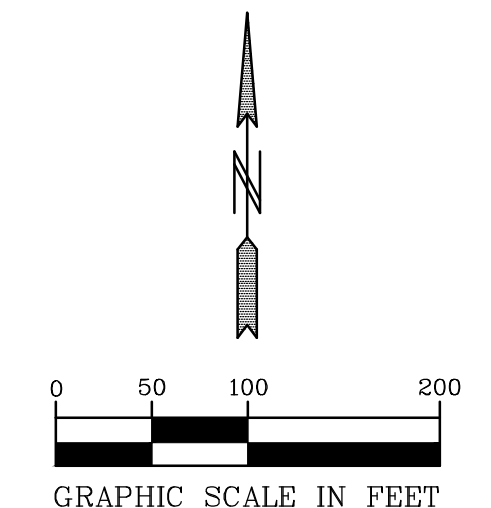


- CONSTRUCTION NOTES**
- 6" & 8" DIP WATERMAIN SHALL BE CL 52. 12" DIP WATERMAIN SHALL BE CL. 52.
 - ALL FITTINGS SHALL HAVE MEGA LUGS. (SEE JOINT CHART)
 - ALL EXISTING UTILITIES HAVE BEEN REMOVED DURING SITE DEMOLITION.
 - CONTRACTOR IS RESPONSIBLE FOR TRENCH DESIGN & O.S.H.A. REQUIREMENTS.
 - ALL CASTINGS & VALVE BOXES TO BE SET 0.05' BELOW FG ELEVATION.

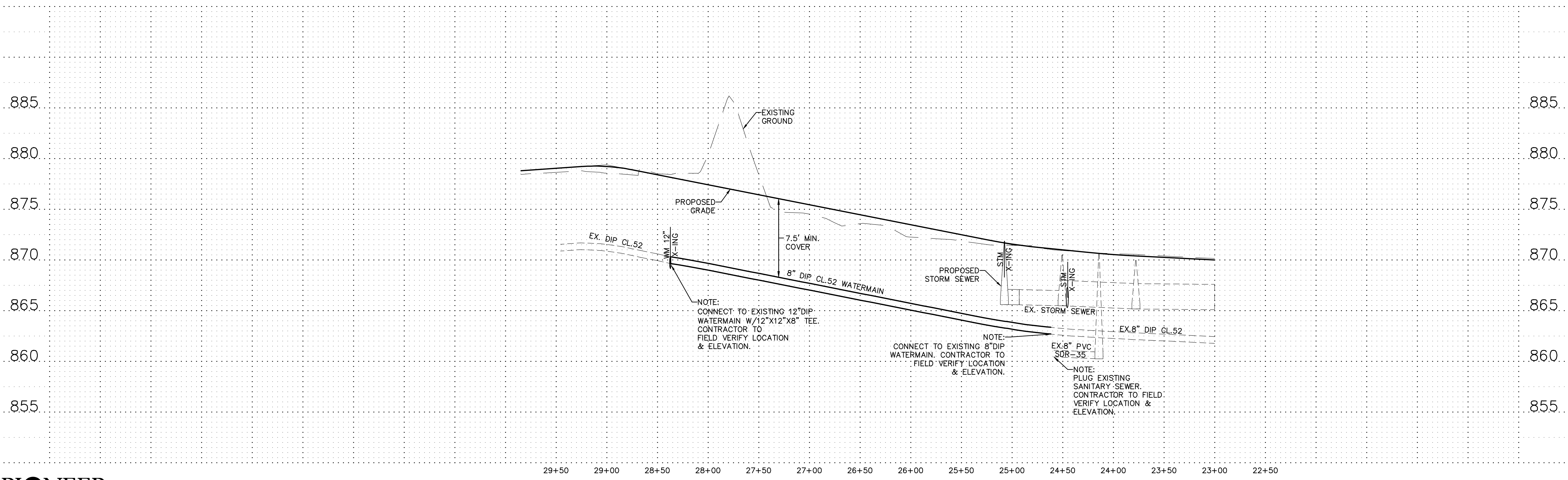
RESTRAINED JOINT REQUIREMENTS

PIPE DIAMETER	TEES AND CROSSES	45 BENDS	22.5 AND 11.25 BENDS	DEAD ENDS
6 INCH				40 FEET
8 INCH				40 FEET
12 INCH	27 FEET	12 FEET	10 FEET	66 FEET
16 INCH	35 FEET	15 FEET	10 FEET	88 FEET
20 INCH	42 FEET	18 FEET	10 FEET	101 FEET
24 INCH	50 FEET	21 FEET	10 FEET	119 FEET
30 INCH	50 FEET	21 FEET	10 FEET	119 FEET

NOTE: FIELD CONSTRUCTED RESTRAINED JOINTS CONSIST OF THE RESPECTIVE SIZE GLAND ON THE BELL AND MEGALUG DEVICE ON THE SPIGOT WITH 3/4" TIE RODS CONNECTING THEM. SEE STANDARD SPECIFICATIONS FOR THE NUMBER OF RODS REQUIRED PER SIZE OF PIPE.



BENCH MARK
 T.N.H. LOCATED AT NORTHEAST CORNER OF COUNTY ROAD NO. 56 AND COUNTY ROAD NO. 116. ELEV.=875.40
 T.N.H. LOCATED 670FT WEST OF THE INTERSECTION OF COUNTY ROAD NO. 56 AND COUNTY ROAD NO. 116. ELEV.=879.95



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Revisions: [Table with 3 columns: No., Description, Date]

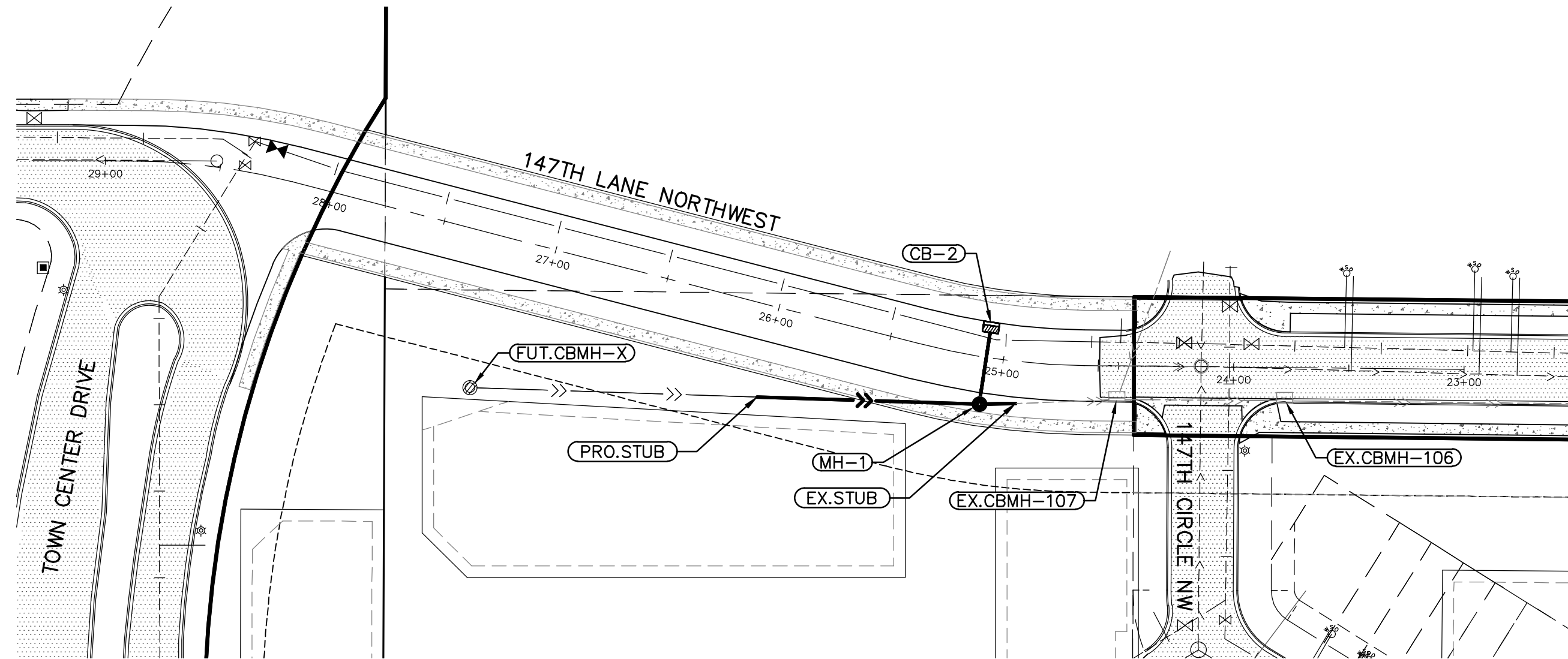
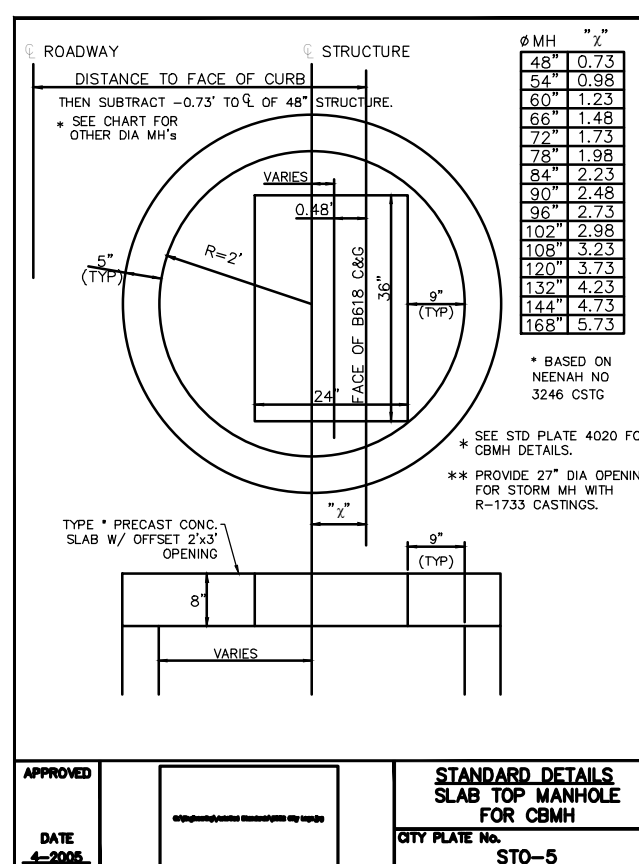
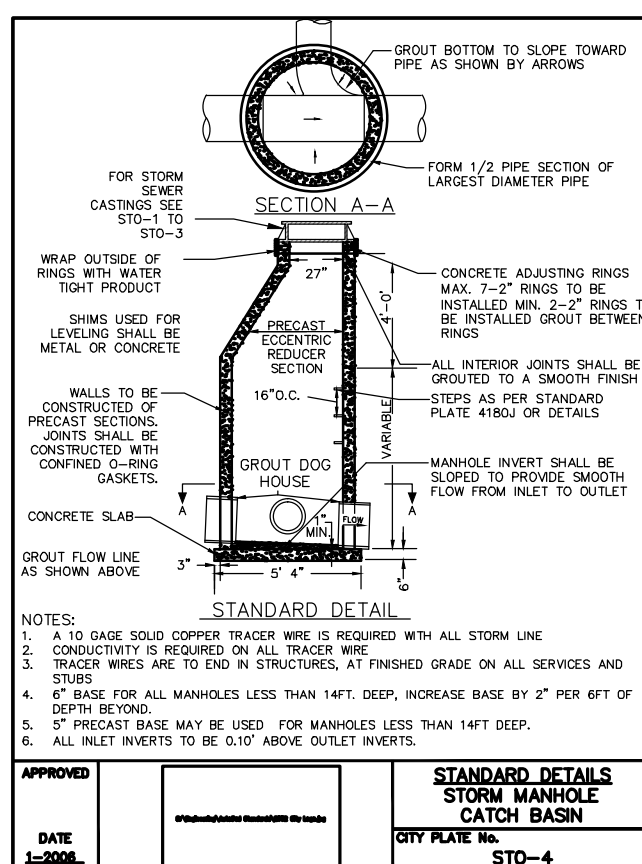
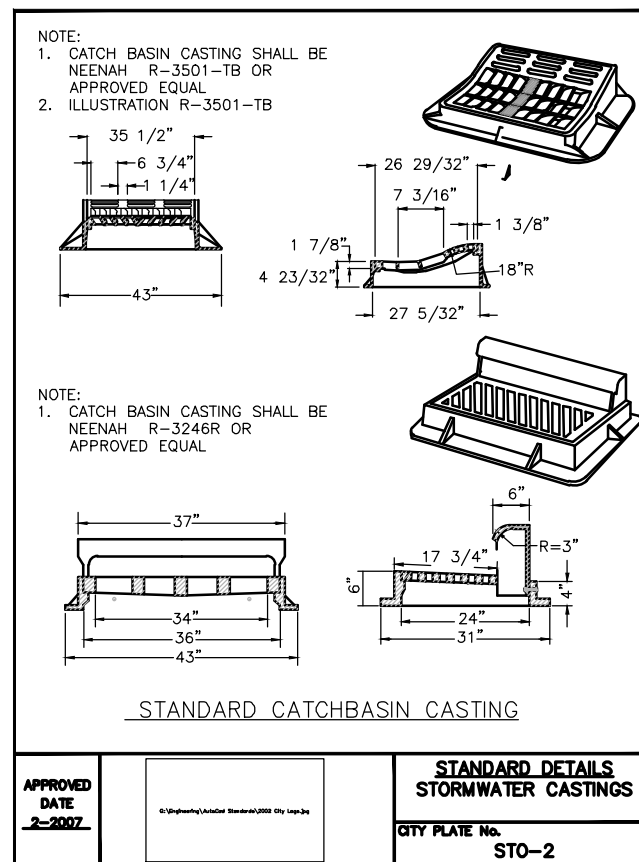
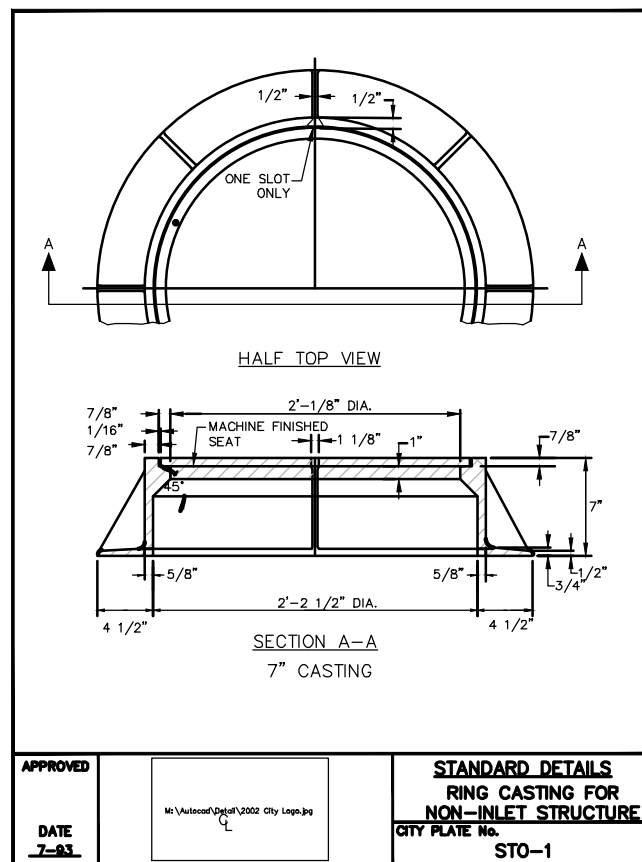
Date: 1-18-13
 Designed: JMM
 Drawn: JMM

WATERMAIN PLAN

SEASONS OF RAMSEY LP
 3601 18TH STREET SOUTH, SUITE 117
 ST. CLOUD, MINNESOTA 56301

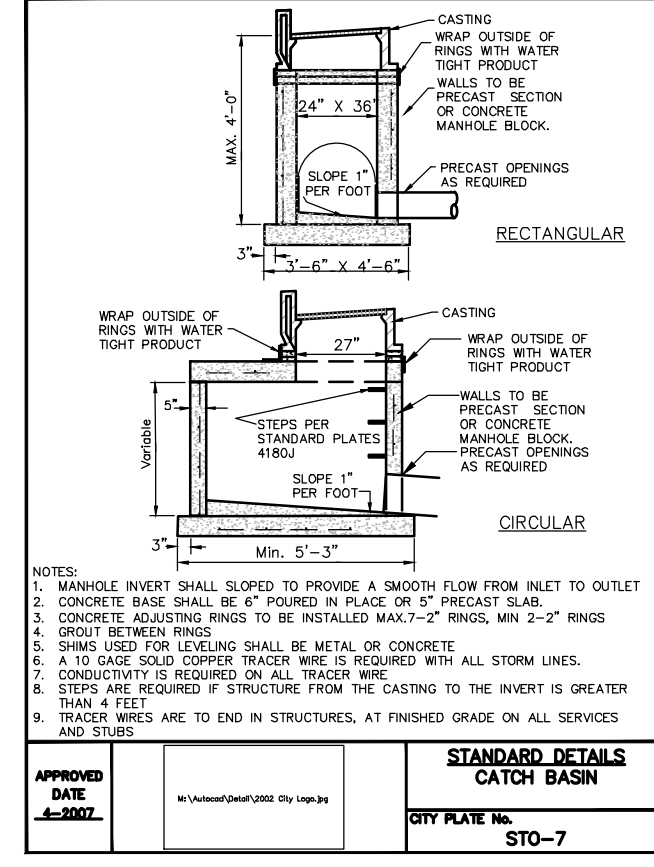
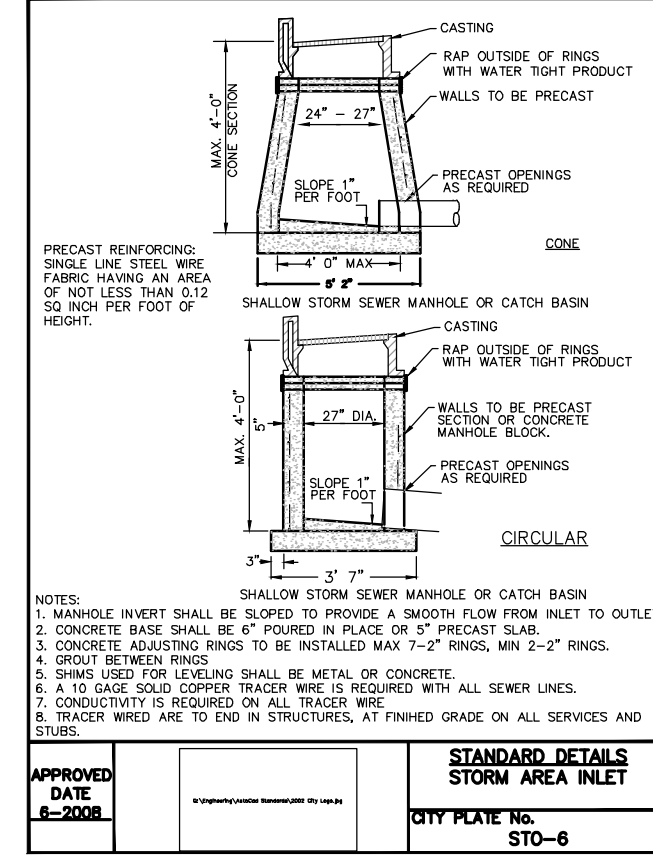
SEASONS OF RAMSEY
 RAMSEY, MINNESOTA

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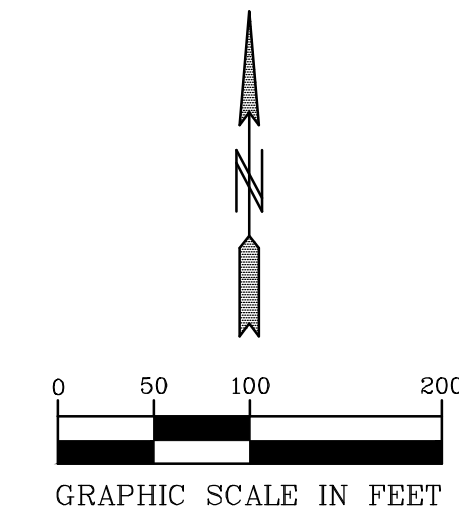
STRUCTURE TABLE		
STRUCTURE NAME	STRUCTURE SIZE	NEENAH CASTING OR EQUAL
CB-2	36"x24"	R-3246 R
MH-1	48" DIA.	SEE DETAIL

OR APPROVED EQUAL



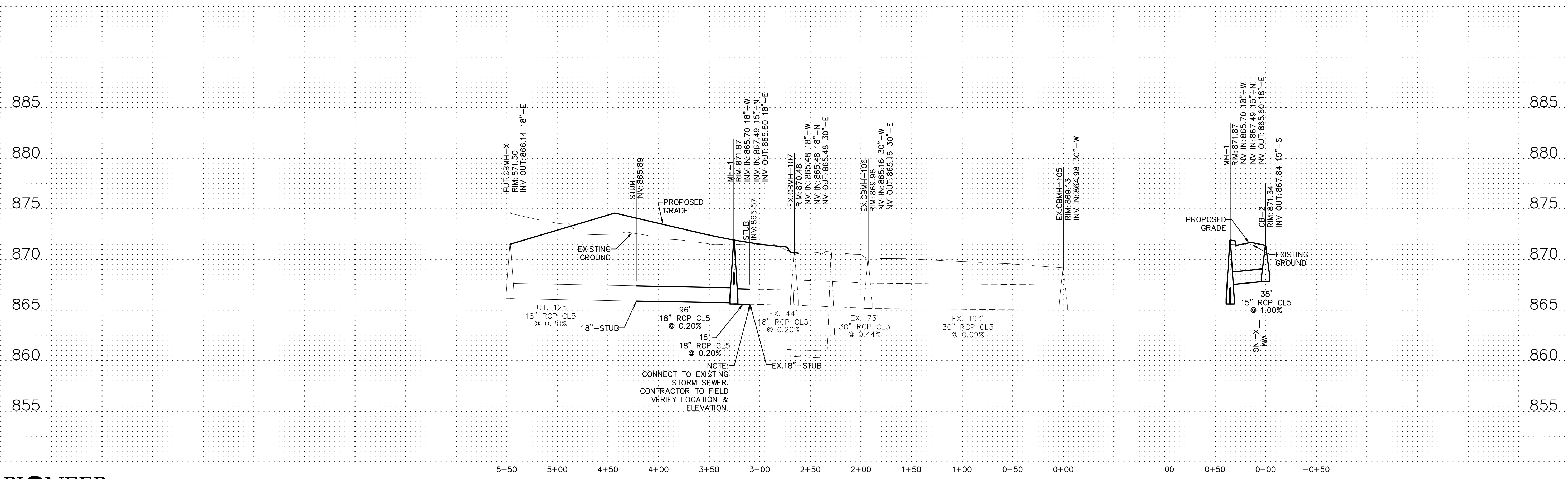
STORM SEWER NOTES:

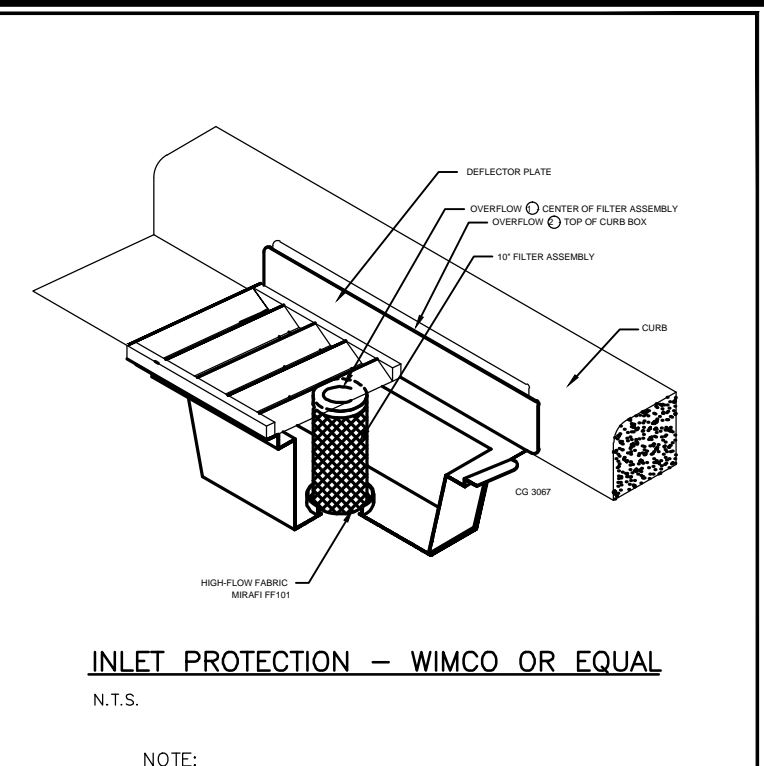
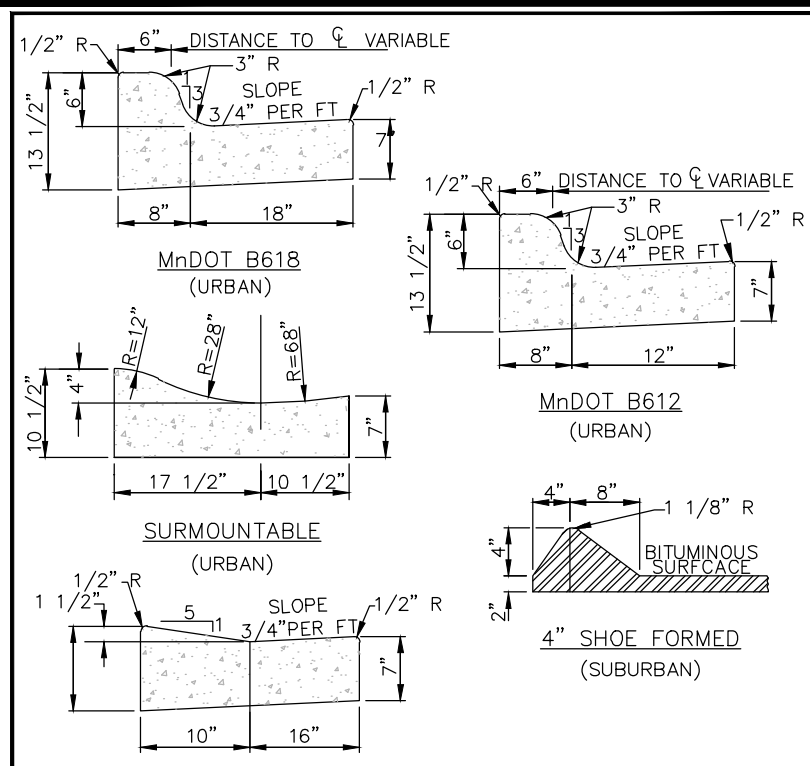
1. PROVIDE CASTINGS MEETING STO-1 OR APPROVED EQUAL ON ALL MANHOLES UNLESS OTHERWISE NOTED. SEE RAMSEY STANDARD PLATE STO-1 TO STO-3
2. PROVIDE 24"x36" SLAB OPENING FOR R-3067-V NEENAH CASTINGS ON ALL CATCH BASIN MANHOLES UNLESS OTHERWISE NOTED.
3. FINAL STRUCTURE OFF SET TO BE VERIFIED BY CONTRACTOR AND INSPECTOR BASED ON MATERIAL SUPPLIED TO PROJECT. FIELD STAKING SHALL BE SET ACCORDING TO BACK-OF-CURB.
4. INLET CASTINGS SHALL BE SET 0.17' BELOW GUTTERLINE GRADE.
5. CONCRETE PIPE MUST BE BEDDED TO A MINIMUM OF THE CLASS C BEDDING REQUIREMENTS. SEE RAMSEY STANDARD SPECS.



BENCH MARK

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 T.N.H. LOCATED 670FT WEST OF THE INTERSECTION OF COUNTY ROAD NO. 56 AND COUNTY ROAD NO. 116. ELEV.=879.95





DRIVEWAY FOR B618

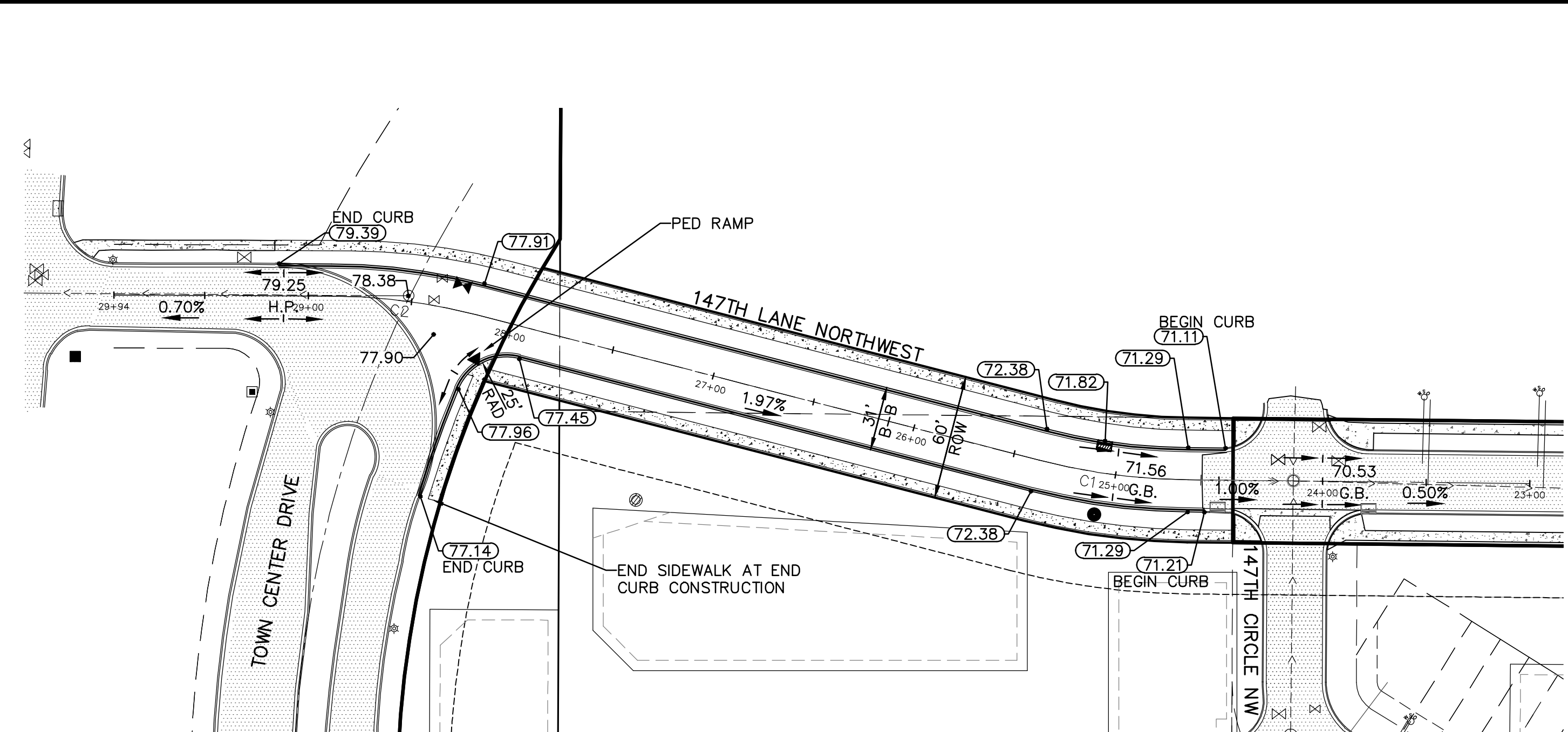
NOTES:
 1. ON WEAR COURSE MILL THE EXISTING BITUMINOUS 1.5\"/>

INLET PROTECTION - WIMCO OR EQUAL
N.T.S.

NOTE:
 THIS INLET PROTECTION SHALL BE USED IMMEDIATELY FOLLOWING CURB & GUTTER CONSTRUCTION. INLET PROTECTION SHALL REMAIN INSTALLED AND MAINTAINED UNTIL ALL HOME CONSTRUCTION IS COMPLETE.

APPROVED DATE	04-12	STANDARD DETAILS CURB AND GUTTER
CITY PLATE No.	STR-1	

APPROVED DATE		STANDARD DETAILS WIMPCO
CITY PLATE No.	STR-21	



CURB LEGEND

- 08.15 = TOP OF CURB ELEVATION FOR D412 CURB
- 08.32 = TOP OF CURB ELEVATION FOR B618 CURB
- 07.82 = BITUMINOUS ELEVATION
- = SURMOUNTABLE C&G (CITY PLATE STR-1)
- = B618 CURB & GUTTER (CITY PLATE STR-1)
- = BITUMINOUS EDGE
- = PED. RAMP (MNDOT 7036F)

CURVE TABLE

CURVE	DELTA	LENGTH	RADIUS	TANGENT	PC	PT
C1	13°53'26"	72.73	300.00	36.54	24+64.94	25+37.67
C2	14°15'23"	70.79	284.50	35.58	28+18.08	28+88.87

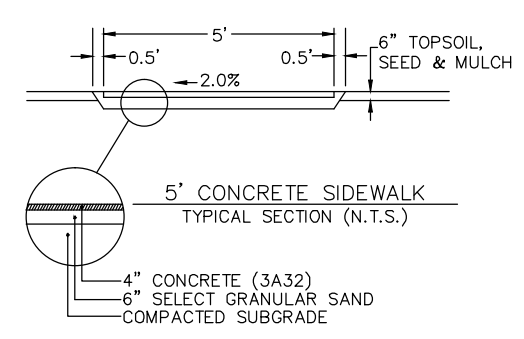
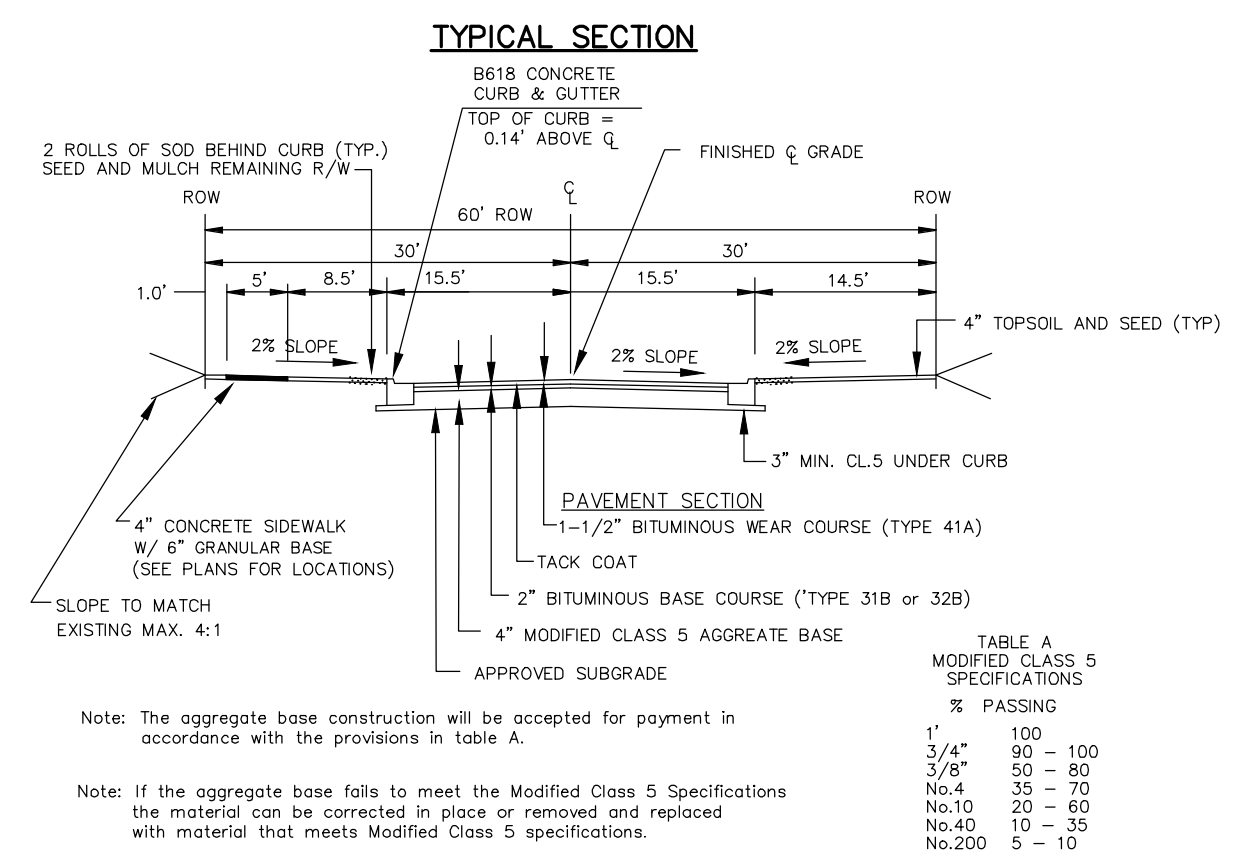


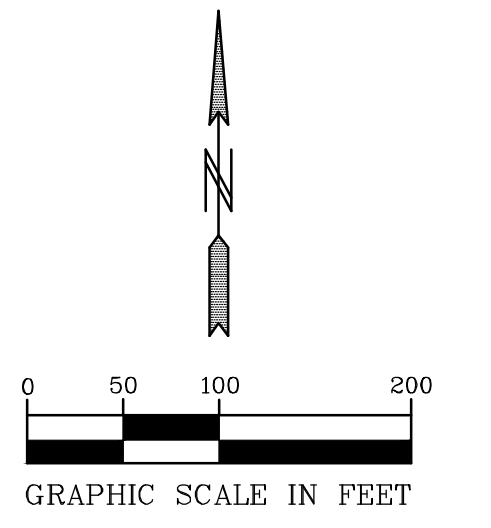
TABLE A
MODIFIED CLASS 5 SPECIFICATIONS

% PASSING	1 1/4"	3/8"	No. 10	No. 40	No. 200
100	90 - 100	50 - 80	35 - 70	20 - 60	10 - 35
5	5 - 10				

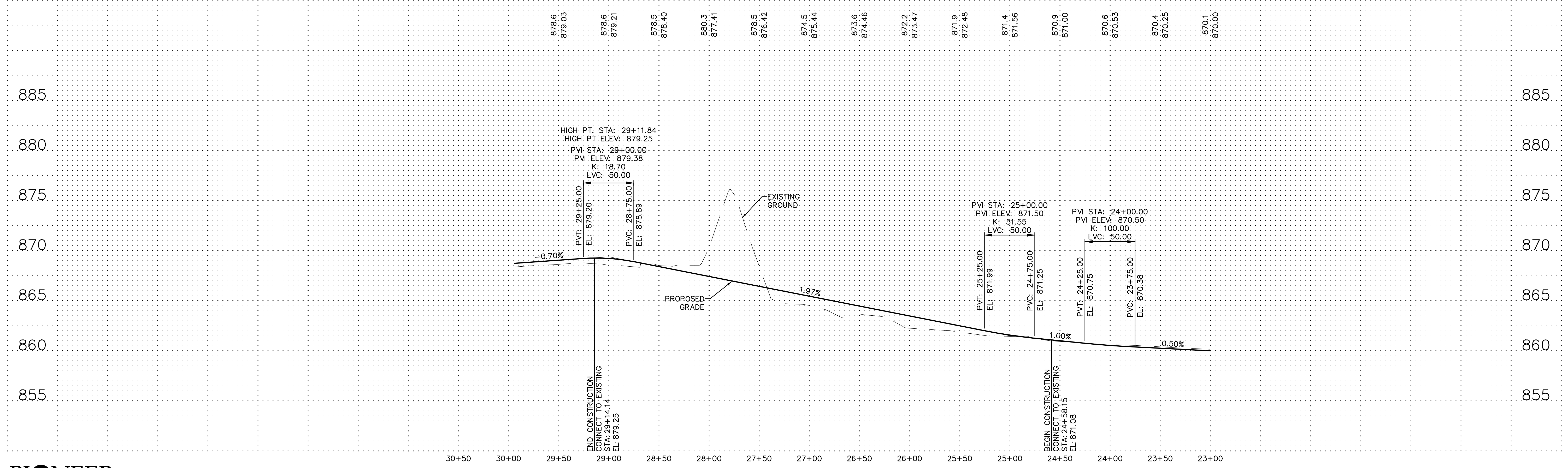
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147TH LANE NORTHWEST



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Name: John M. Molinaro
 Reg. No.: 45831
 Date: 1-18-13

Revisions

Date	1-18-13
Designed	JMM
Drawn	JMM

STREET CONSTRUCTION

SEASONS OF RAMSEY LP
3601 18TH STREET SOUTH, SUITE 117
ST. CLOUD, MINNESOTA 56301

SEASONS OF RAMSEY
RAMSEY, MINNESOTA

PHASE SEQUENCE

1. THE SIZE OF EACH FILL OPERATION WILL BE DETERMINED BY THE QUANTITY OF SOIL IMPORT.
 2. EACH PHASE WILL CONSIST OF THE GRADING SEQUENCE OUTLINED BELOW.
- GRADING SEQUENCE**
1. DETERMINE SIZE OF FILL AREA BASED ON AVAILABLE SOIL
 2. INSTALL ROCK CONSTRUCTION ENTRANCE
 3. INSTALL PERIMETER SEDIMENT CONTROL DEVICES (SILT FENCE).
 4. STRIP TOPSOIL STOCKPILE AND STABILIZE IN BERM FOR FUTURE SPREADING.
 5. DIG TEMPORARY SEDIMENT BASIN, BASIN TO BE 1800 CF/ACRE OF AREA STRIPPED. CLEAN TEMP BASIN ONCE 50% FULL.
 6. ALL SOIL WILL BE TESTED FOR SUITABILITY FOR FILL PER THE BORROW PIT RECLAMATION PROTOCOL PRIOR TO BEING BROUGHT ONSITE.
 7. ALL SOILS WILL BE COMPACTED PER THE BORROW PIT RECLAMATION PROTOCOL.
 8. MAINTAIN DRAINAGE DURING GRADING OPERATION TO TEMPORARY SEDIMENT BASIN.
 9. COMPLETE SITE GRADING PER PLAN.
 10. RESPREAD TOPSOIL MAINTAIN A MINIMUM OF 4" DEPTH.
 11. MAINTAIN DRAINAGE TO TEMP SEDIMENT BASIN UNTIL NEXT PHASE BEGINS.
 12. STABILIZE DENUDE AREAS AND STOCKPILES WITHIN TIME FRAME LISTED IN EROSION PREVENTION PRACTICES

GENERAL NOTES

1. CONTRACTOR TO ADHERE TO ALL REQUIREMENTS OF THE MINNESOTA POLLUTION CONTROL AGENCY N.P.D.E.S. PERMIT, INCLUDING THE REQUIREMENT TO MINIMIZE THE AREA DISTURBED BY GRADING AT ANY GIVEN TIME AND TO COMPLETE TURF RESTORATION THE TIME REQUIRED BY THE PERMIT AFTER COMPLETION OF
2. A COPY OF THESE PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. BMP'S REFER TO EROSION AND SEDIMENT CONTROL PRACTICES DEFINED IN THE MPCA PROTECTING WATER QUALITY IN URBAN AREAS AND THE MINNESOTA CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL PLANNING HANDBOOK.
4. ALL EROSION AND SEDIMENT CONTROL FACILITIES (BMP'S) SHALL BE INSTALLED AND IN OPERATION PRIOR TO LAND DISTURBANCE ACTIVITIES. SOME EROSION CONTROLS SUCH AS CHECK DAMS AND TEMPORARY SILT PONDS MAY BE INSTALLED AS GRADING OCCURS IN THE SPECIFIC AREA. THEY SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR EROSION HAS PASSED.
5. THE BMP'S SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, THE PERMITTEE SHALL ANTICIPATE THAT MORE BMP'S WILL BE NECESSARY TO ENSURE EROSION AND SEDIMENT CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY CONSTRUCTION ACTIVITIES AND/OR CLIMATIC EVENTS AND TO PROVIDE ADDITIONAL BMP'S OVER AND ABOVE THE MINIMUM REQUIREMENTS SHOWN ON THE PLANS THAT MAY BE NEEDED TO PROVIDE EFFECTIVE PROTECTION OF WATER AND SOIL RESOURCES.
6. ALL TREES NOT LISTED FOR REMOVAL SHALL BE PROTECTED. DO NOT OPERATE EQUIPMENT WITHIN THE DRIP LINE, ROOT ZONES OR WITHIN TREE PROTECTION FENCE AREAS.
7. WHEREVER POSSIBLE, PRESERVE THE EXISTING TREES, GRASS AND OTHER VEGETATIVE COVER TO HELP FILTER RUNOFF.
8. OPERATE TRACK EQUIPMENT (DOZER) UP AND DOWN EXPOSED SOIL SLOPES ON FINAL PASS, LEAVING TRACK GROOVES PERPENDICULAR TO THE SLOPE. DO NOT BACK-BLADE. LEAVE A SURFACE ROUGH TO MINIMIZE EROSION.
9. TEMPORARY SEED SHALL BE DONE IN ACCORDANCE TO MNDOT 2575 & 387, CONSISTING OF:
 - MNDOT MIX 150 @ 40 LBS. PER ACRE OR APPROVED EQUAL.
 - MULCH SHALL BE MNDOT TYPE 3 @ 2 TONS PER ACRE OR APPROVED EQUAL AND DISK ANCHORED IN PLACE OR APPROVED EQUAL, INSTALLED TO MINIMUM 90% COVERAGE OF THE SURFACE AREA DISTURBED.
 - TYPE 1 FERTILIZER, 10-10-20 @ 200 LBS. PER ACRE
10. PERMANENT TURF RESTORATION SHALL BE DONE IN ACCORDANCE WITH MNDOT 2575 & 3876 CONSISTING OF:
 - MNDOT MIXTURE 240 AT 75 POUNDS PER ACRE.
 - MULCH SHALL BE MNDOT TYPE 3 @ 2 TONS PER ACRE OR APPROVED EQUAL AND DISK ANCHORED IN PLACE OR APPROVED EQUAL, INSTALLED TO MINIMUM 90% COVERAGE OF THE SURFACE AREA DISTURBED. MULCH AT 90% COVERAGE WITH DISK ANCHOR.
 - TYPE 3 FERTILIZER, 22-5-10 80%W.I.N @ 350 LBS PER ACRE.
11. SLOPES AT 3:1 OR STEEPER, AND/OR WHERE INDICATED ON THE PLANS SHALL BE SEEDED AND HAVE AN EROSION CONTROL BLANKET TYPE 3 INSTALLED OR MAY BE HYDROSEEDED WITH TACKLER MULCH.
12. THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT TRACKED ONTO EXISTING STREETS AND PAVED AREAS.
13. IF BLOWING DUST BECOMES A NUISANCE, THE CONTRACTOR SHALL APPLY WATER FROM A TANK TRUCK TO ALL CONSTRUCTION AREAS.
14. WITHIN 7 DAYS OF COMPLETION OF THE SITE GRADING OPERATIONS THE ENTIRE SITE (EXCEPT ROADWAYS) SHALL HAVE BEEN SEEDED AND MULCHED AND SILT FENCE SHALL BE INSTALLED AROUND ALL PONDS.
15. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROPERLY DISPOSED OF WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

CONSTRUCTION ACTIVITY REQUIREMENTS

A. EROSION PREVENTION PRACTICES

1. THE CONTRACTOR SHALL IMPLEMENT CONSTRUCTION PHASING, VEGETATIVE BUFFER STRIPS, HORIZONTAL SLOPE GRADING, AND OTHER CONSTRUCTION PRACTICES THAT MINIMIZE EROSION. THE LOCATION OF AREAS NOT TO BE DISTURBED MUST BE DELINEATED (E.G. WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.) ON THE DEVELOPMENT SITE BEFORE WORK BEGINS.
2. ALL EXPOSED SOIL AREAS WITHIN 200 FEET OF A SURFACE WATER OR ANY STORMWATER CONVEYANCE SYSTEM WHICH IS CONNECTED TO A SURFACE WATER MUST BE STABILIZED WITHIN 7 DAYS (STEEPER THAN 3:1 SLOPES), 14- DAYS (10:1 TO 3:1 SLOPES), OR 21 DAYS (FLATTER THAN 10:1). THESE AREAS INCLUDE POND SIDE SLOPES, EXPOSED SOIL AREAS WITH A POSITIVE SLOPE TO A CURB AND GUTTER SYSTEM, STORM SEWER INLET, DRAINAGE DITCH, OR OTHER SYSTEM THAT DISCHARGES TO A SURFACE WATER.
3. THE NORMAL WETTED PERIMETER OF ANY DRAINAGE DITCH MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE TO ANY SURFACE WATER (WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER).
4. PIPE OUTLETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER.

B. SEDIMENT CONTROL PRACTICES

1. SEDIMENT CONTROL PRACTICES MUST MINIMIZE SEDIMENT ENTERING SURFACE WATERS, DITCHES AND SEDIMENT BASINS REQUIRE SEDIMENT CONTROL PRACTICES ONLY AS APPROPRIATE FOR SITE CONDITIONS. IF DOWN GRADE SYSTEM IS OVERLOADED, ADDITIONAL UPGRADE PRACTICES MUST BE INSTALLED, AND THE SWPPP MUST BE AMENDED. THERE SHALL BE NO UNBROKEN SLOPE LENGTH OF GREATER THAN 75 FEET FOR SLOPES WITH A GRADE OF 3:1 OR STEEPER. SLOPES MAY BE BROKEN WITH SILT FENCE, ROCK CHECK DAMS, COMPOST SNAKES, OR OTHER APPROVED METHODS AND/OR AS SHOWN ON THE EROSION CONTROL PLAN.
2. SEDIMENT CONTROL PRACTICES MUST BE ESTABLISHED ON DOWNGRADE PERIMETERS BEFORE UPGRADE LAND DISTURBING ACTIVITIES BEGIN.
3. THE TIMING OF SEDIMENT CONTROL PRACTICES MAY BE ADJUSTED TO ACCOMMODATE SHORT TERM ACTIVITIES. HOWEVER, THESE PRACTICES MUST BE INSTALLED BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE ACTIVITY IS NOT COMPLETE.
4. CONTRACTOR MUST PROTECT ALL STORM DRAIN INLETS BY APPROPRIATE BMP'S DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED.
5. TEMPORARY STOCKPILES MUST HAVE SILT FENCE AROUND THE PERIMETER OF THE BASE OF THE STOCKPILE AND CANNOT BE PLACED IN SURFACE WATERS, INCLUDING STORM WATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS OR DITCHES.
6. CONTRACTOR MUST INSTALL TEMPORARY (OR PERMANENT) SEDIMENTATION BASINS WHERE TEN OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION AND/OR AS SHOWN ON THE EROSION CONTROL PLAN.

C. DEWATERING AND SURFACE DRAINAGE

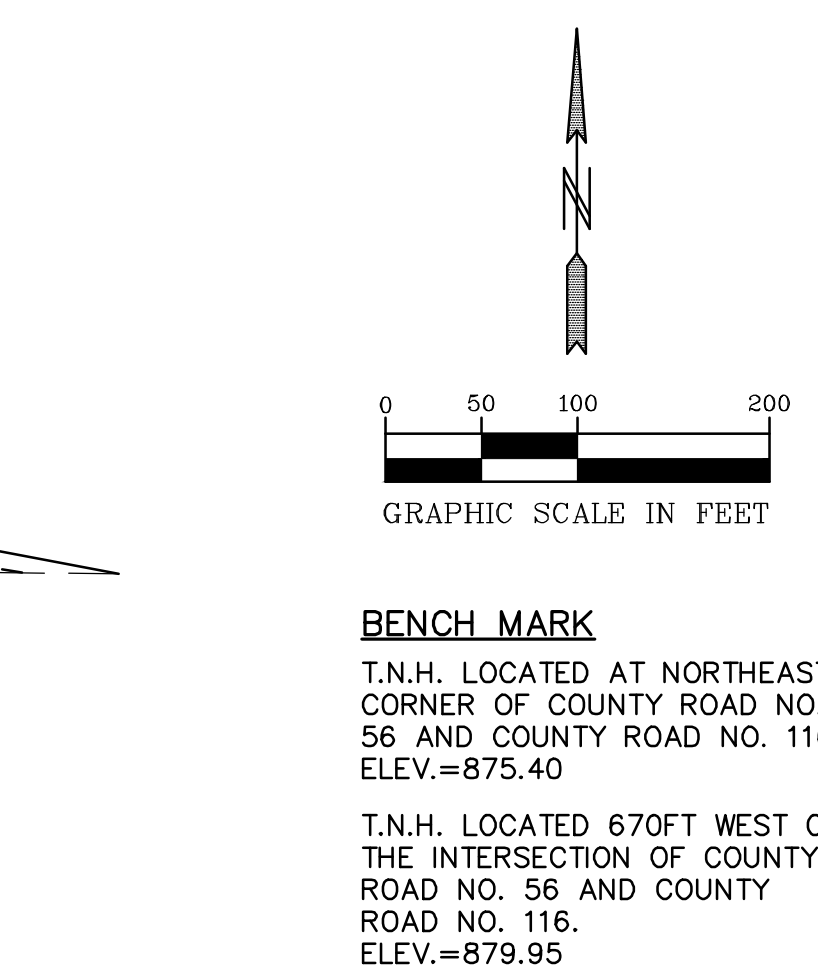
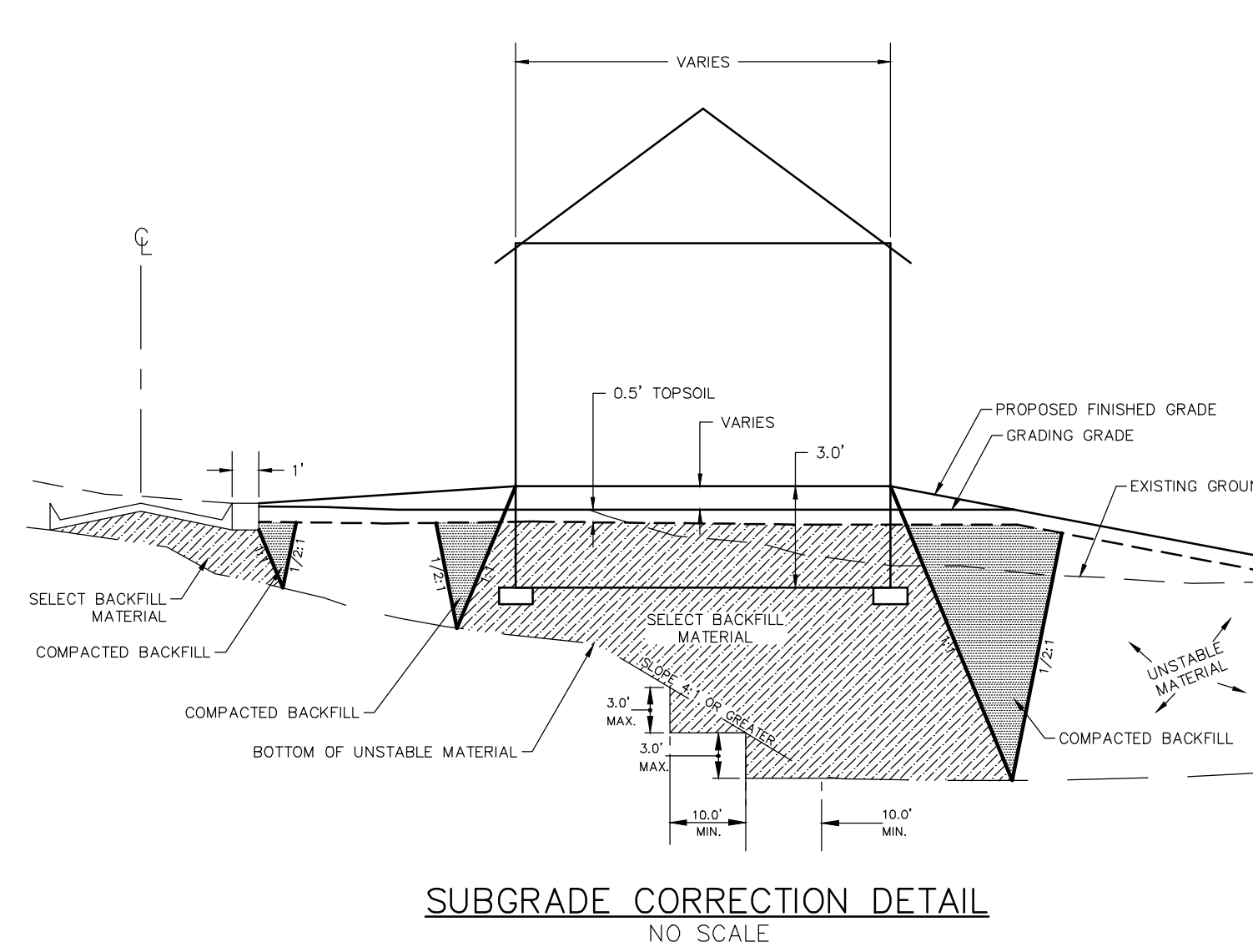
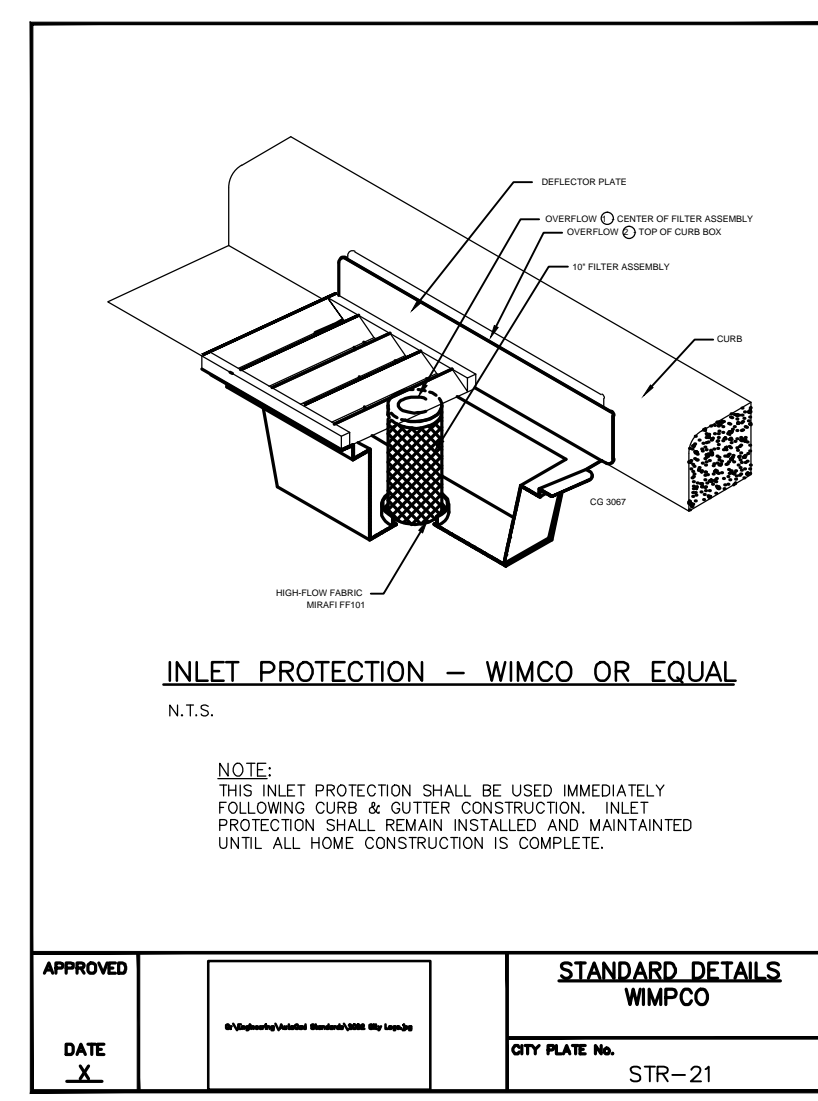
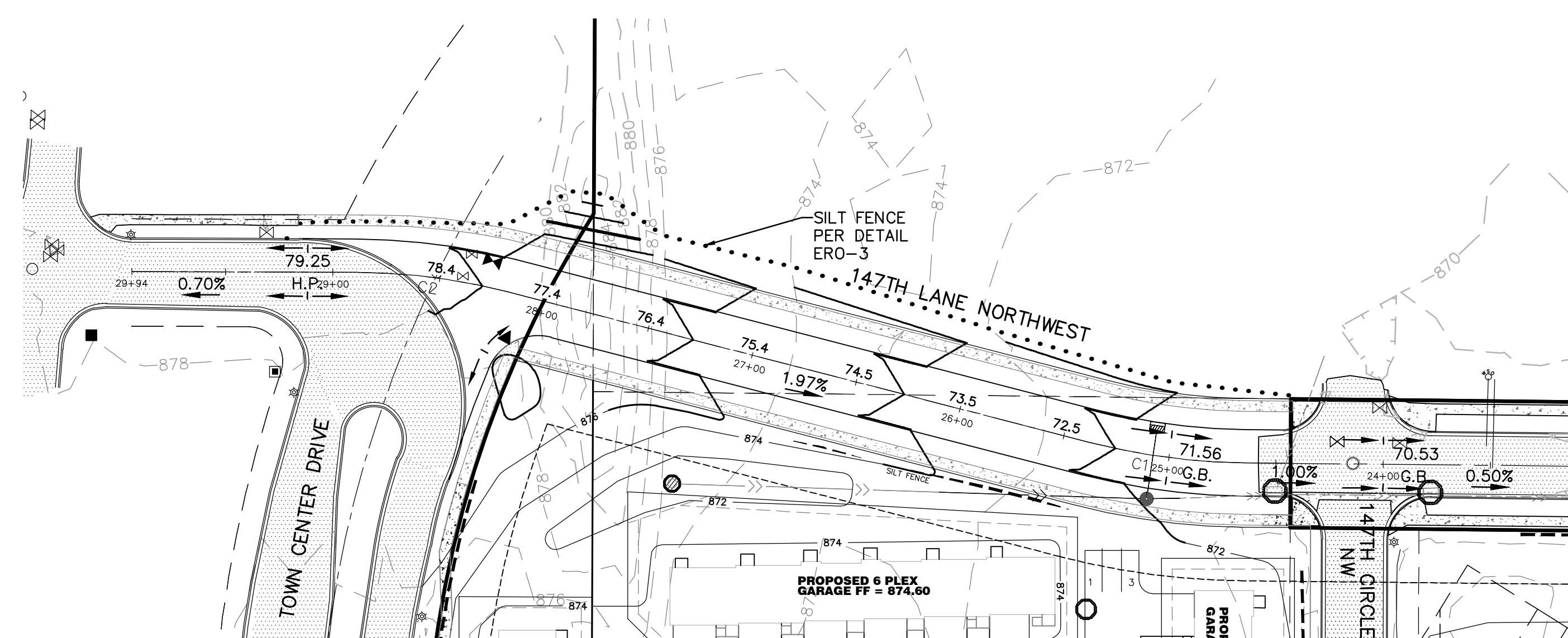
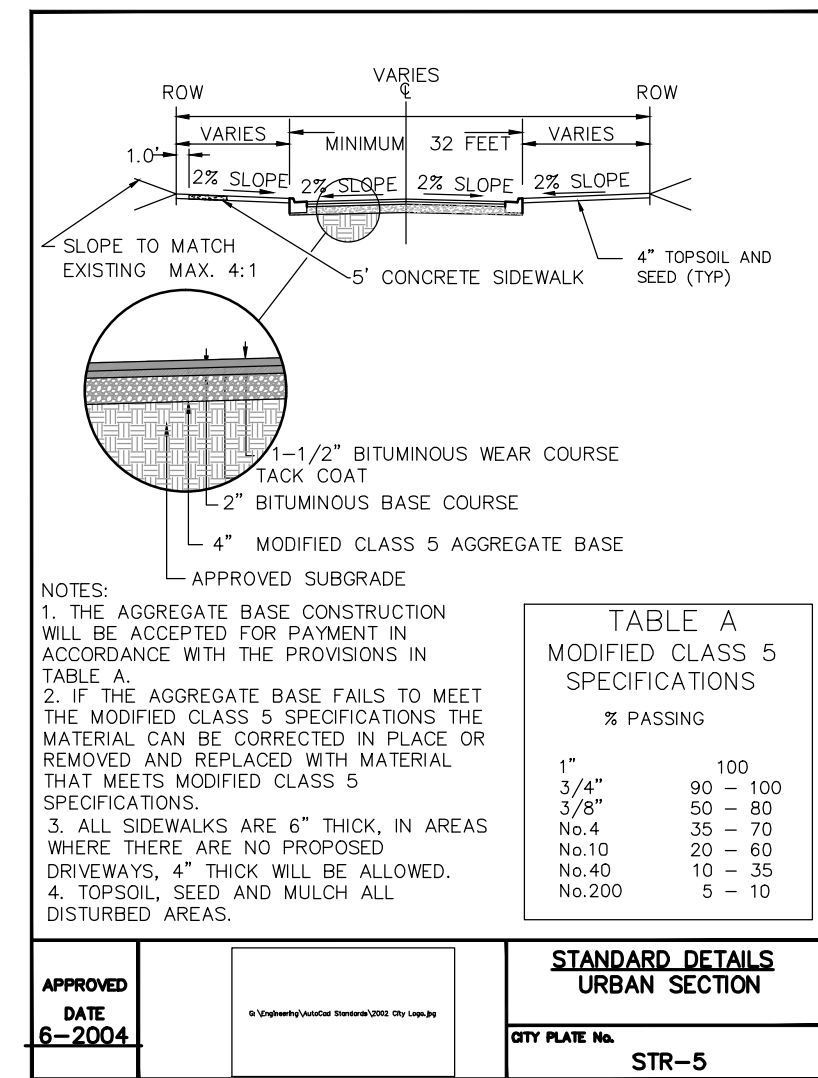
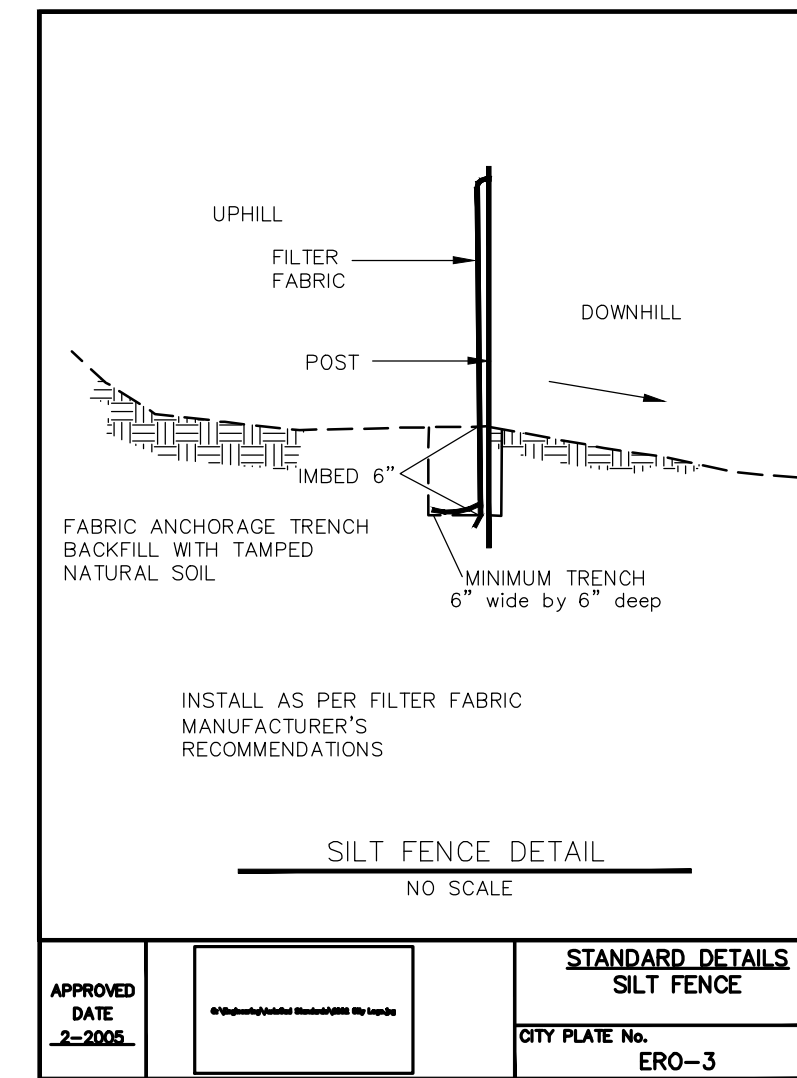
1. DEWATERING OR ANY TYPE OF SURFACE DRAINAGE THAT MAY HAVE TURBID OR SEDIMENT LADEN DISCHARGE WATER MUST BE DISCHARGED TO AN APPROVED SEDIMENT BASIN ON THE PROJECT SITE WHENEVER POSSIBLE. IF THE WATER CANNOT BE DISCHARGED TO A BASIN PRIOR TO ENTERING THE SURFACE WATER, IT MUST BE TREATED WITH THE APPROPRIATE BMP'S SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE RECEIVING WATER OR DOWNSTREAM LANDOWNERS. THE CONTRACTOR MUST ENSURE THAT DISCHARGE POINTS ARE ADEQUATELY PROTECTED FROM EROSION AND SCOUR. THE DISCHARGE MUST BE DISPERSED OVER NATURAL ROCK RIP RAP, SAND BAGS, PLASTIC SHEETING, OR OTHER ACCEPTED ENERGY DISSIPATION MEASURES.
2. ALL WATER FROM DEWATERING MUST BE DISCHARGED IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS, EROSION, OR INUNDATION OF WETLANDS CAUSING SIGNIFICANT ADVERSE IMPACT TO THE WETLAND.

D. INSPECTIONS AND MAINTENANCE

1. THE CONTRACTOR MUST APPOINT SOMEONE TO INSPECT THE CONSTRUCTION SITE ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF GREATER THAN 0.5 INCHES IN 24 HOURS. ALL INSPECTIONS MUST BE RECORDED IN WRITING AND RETAINED PER M.P.C.A. N.P.D.E.S. REQUIREMENTS. (NOTE: LOCAL JURISDICTION MAY REQUIRE A MORE FREQUENT INTERVAL OF INSPECTION.)

E. POLLUTION PREVENTION MANAGEMENT MEASURES

1. SOLID WASTE MUST BE DISPOSED OF PER M.P.C.A. REQUIREMENTS.
2. HAZARDOUS MATERIALS MUST BE STORED AND DISPOSED OF PER M.P.C.A. REGULATIONS.
3. EXTERNAL WASHING OF CONSTRUCTION VEHICLES MUST BE LIMITED TO A DEFINED AREA OF THE SITE. RUNOFF MUST BE CONTAINED AND WASTE PROPERLY DISPOSED OF. NO ENGINE DECREASING IS ALLOWED ON SITE.



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I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Name: John M. Molinaro
 Reg. No.: 45831
 Date: 1-18-13

Revisions
 Date: 1-18-13
 Designed: JMM
 Drawn: JMM

GRADING & EROSION CONTROL PLAN

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